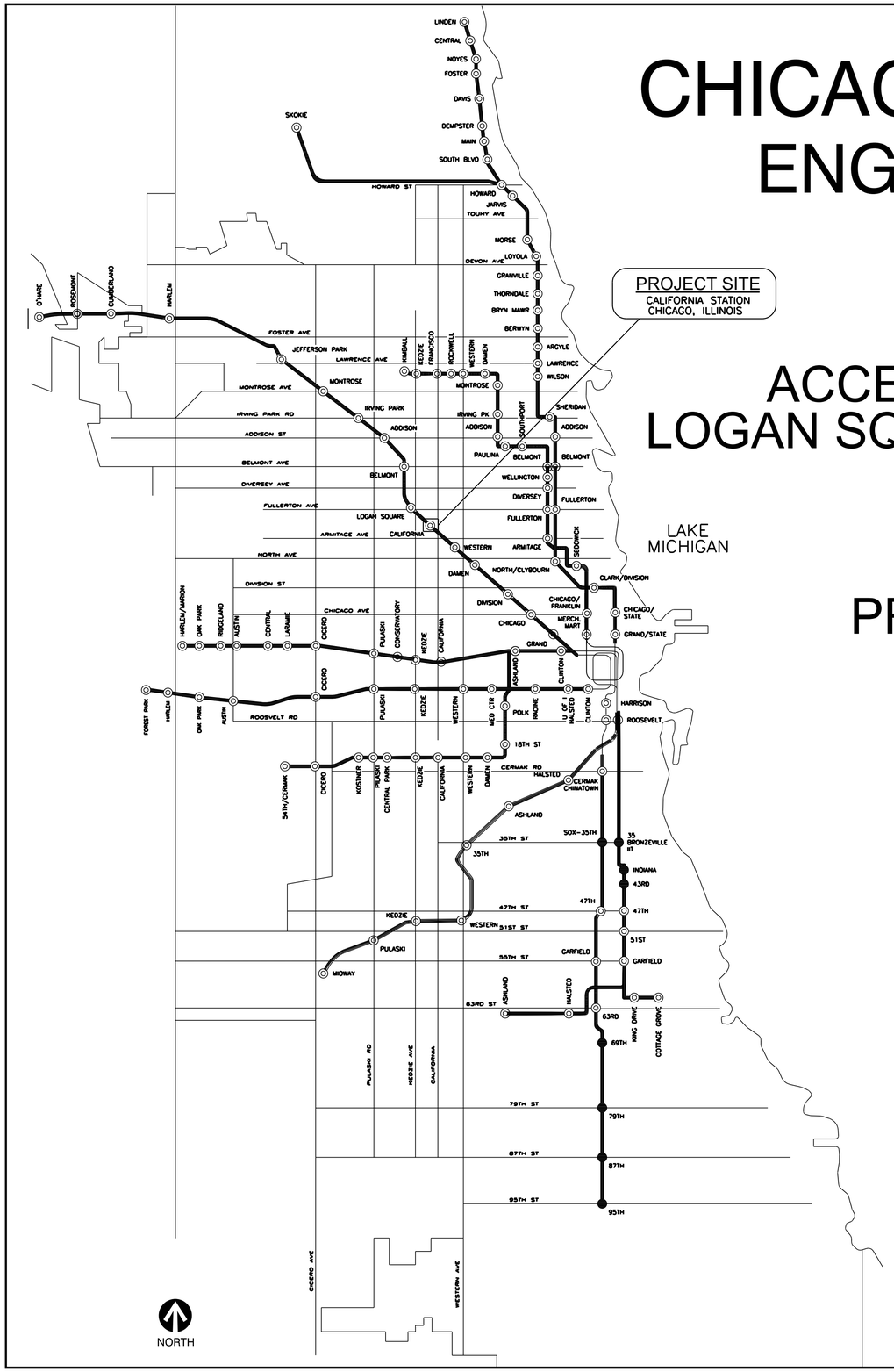
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ENGINEERING DEPARTMENT



ALL STATIONS ACCESSIBILITY PROGRAM (ASAP) LOGAN SQUARE LINE CALIFORNIA STATION

PROJECT NO. 2015-0027.04

ISSUE FOR BID DECEMBER 30, 2024

DRAWING INDEX - VOLUME I

DISCIPLINES

000 - G	GENERAL
010 - H	HAZARDOUS MATERIALS
020 - V	SURVEY DRAWINGS
030 - B	GEOTECHNICAL DRAWINGS
050 - C	CIVIL DRAWINGS
052 - CX	CIVIL STAGING DRAWINGS
070 - S	STRUCTURAL DRAWINGS
071 - ST	TRACK STRUCTURE DRAWINGS
080 - A	ARCHITECTURAL DRAWINGS
081 - AG	ARCHITECTURAL GRAPHICS
100 - Q	EQUIPMENT DRAWINGS
110 - ERS	EARTH RETENTION SYSTEMS
120 - P	PLUMBING DRAWINGS
140 - M	MECHANICAL DRAWINGS
150 - E	ELECTRICAL DRAWINGS
160 - T	TELECOMMUNICATIONS DRAWINGS

EFP 125484

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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	S. LASHOCK
CHECKED BY	S. LASHOCK
DESIGNED BY	J. SCHAEFER
DRAWN BY	J. SCHAEFER

MARK	DATE	DESCRIPTION
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COVER SHEET

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VOLUME: X OF X

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HAZARDOUS MATERIAL
CIVIL SITE AND CIVIL STAGING

12/30/2024

STEPHEN LASHOCK, P.E. DATE

ILLINOIS REGISTRATION NO: 062.072902
EXPIRES: 11/30/2025

APPLY TO SHEETS: H, C AND CX SHEETS



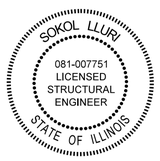
HNTB CORPORATION
STRUCTURAL

12/30/2024

COREY MIDKIFF, P.E. S.E. DATE

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EXPIRES: 11/30/2024

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SOKOL LLURI, P.E., S.E. DATE

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JLK ARCHITECTS
ARCHITECTURAL

12/30/2024

MARGUERITE A. KINDELIN, AIA DATE

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EXPIRES: 11/30/2024

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AAA ENGINEERING, LTD.
ELECTRICAL AND TELECOMMUNICATIONS

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AAA ENGINEERING, LTD.
PLUMBING, MECHANICAL

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JOHN O. VARLEY DATE

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PROFESSIONAL SEALS

G-001

VOLUME: X OF X

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VOLUME I: INDEX OF DRAWINGS

GENERAL
G-000 COVER SHEET
G-001 PROFESSIONAL SEALS
G-002 INDEX OF DRAWINGS
G-003 INDEX OF DRAWINGS
G-004 GENERAL NOTES
G-005 CODE MATRIX
G-006 NFPA-130 CALCULATIONS
G-007 NFPA-130 CALCULATIONS
G-008 TRAVEL DISTANCES TEMPORARY STATION
G-009 LIFE SAFETY PLAN
G-010 CLEARANCE DIAGRAMS
G-011 SUGGESTED PHASING PLANS (1-3)
G-012 SUGGESTED PHASING PLANS (4-6)
G-013 SUGGESTED PHASING PLANS (7-9)
G-014 PLATFORM AND STATION GROUNDING PLANS - 1
G-015 PLATFORM AND STATION GROUNDING PLANS - 2
G-016 PLATFORM AND STATION GROUNDING PLANS - 3
G-017 PLATFORM AND STATION GROUNDING PLANS - 4
G-018 PLATFORM AND STATION GROUNDING PLANS - 5
G-019 PLATFORM AND STATION GROUNDING PLANS - 6
G-020 PLATFORM AND STATION GROUNDING PLANS - 7
G-021 PLATFORM AND STATION GROUNDING PLANS - 8
G-022 PLATFORM AND STATION GROUNDING PLANS - 9
G-023 PLATFORM AND STATION GROUNDING PLANS - 10

HAZARDOUS MATERIAL DRAWINGS
H-101 CALIFORNIA STATION ABATEMENT AREAS

SURVEY
V-101 PAGE 1
V-102 PAGE 2
V-103 PAGE 3
V-104 PAGE 4
V-105 PAGE 5
V-106 PAGE 6

GEOTECHNICAL
B-100 BORING LOCATION DIAGRAM
B-101 BORING LOGS - 1
B-102 BORING LOGS - 2
B-103 BORING LOGS - 3

CIVIL SITE
C-001 CIVIL GENERAL NOTES 1 OF 2
C-002 CIVIL GENERAL NOTES 2 OF 2
C-100 EXISTING CONDITIONS
C-101 DEMOLITION PLAN CALIFORNIA AVE
C-102 DEMOLITION PLAN W. ST. GEORGES CT
C-103 PROPOSED CONDITIONS CALIFORNIA AVE
C-104 PROPOSED CONDITIONS W. ST GEORGES CT
C-401 PROPOSED GRADING N CALIFORNIA AVE
C-402 PROPOSED GRADING CALIFORNIA STATION HOUSE
C-500 DETAILS SHEET 1 OF 6
C-501 DETAILS SHEET 2 OF 6
C-502 DETAILS SHEET 3 OF 6
C-503 DETAILS SHEET 4 OF 6
C-504 DETAILS SHEET 5 OF 6
C-505 DETAILS SHEET 6 OF 6

CIVIL STAGING
CX-001 STAGING NOTES
CX-100 STAGING PLAN STAGE 1
CX-101 STAGING PLAN STAGE 2
CX-102 STAGING PLAN STAGE 3
CX-400 ENLARGED STAGING PLAN STAGE 1
CX-401 ENLARGED STAGING PLAN STAGE 2

STRUCTURAL
S-001 STRUCTURAL GENERAL INFORMATION
S-002 STRUCTURAL ABBREVIATIONS
S-003 STRUCTURAL GENERAL NOTES
S-004 STRUCTURAL GENERAL NOTES
S-005 STRUCTURAL GENERAL NOTES
S-006 STRUCTURAL GENERAL NOTES
S-007 INSPECTION SCHEDULES
S-008 INSPECTION SCHEDULES
S-100 STRUCTURAL STATION LEVEL PLAN - OVERALL

STRUCTURAL (CONTINUED)
S-102 STRUCTURAL STATION LEVEL PLAN - AREA B
S-103 STRUCTURAL STATION LEVEL PLAN - AREA C
S-110 STRUCTURAL PLATFORM LEVEL PLAN - OVERALL
S-112 STRUCTURAL PLATFORM LEVEL PLAN - AREA B
S-113 STRUCTURAL PLATFORM LEVEL PLAN - AREA C
S-120 STRUCTURAL CANOPY LEVEL PLAN - OVERALL
S-122 STRUCTURAL CANOPY LEVEL PLAN - AREA B
S-123 STRUCTURAL CANOPY LEVEL PLAN - AREA C
S-130 STRUCTURAL ELEVATOR ROOF LEVEL PLAN - OVERALL
S-132 STRUCTURAL ELEVATOR ROOF LEVEL PLAN - AREA B
S-200 ELEVATOR ELEVATIONS
S-201 ELEVATOR ELEVATIONS
S-300 STRUCTURAL OVERALL CANOPY SECTION
S-301 OVERALL BUILDING SECTION
S-302 STAIR 01 SECTIONS
S-303 STAIR 02 SECTIONS
S-400 STRUCTURAL ENLARGED ELEVATOR TOWER PLANS
S-401 STRUCTURAL ENLARGED STAIR PLANS
S-402 STRUCTURAL ENLARGED STAIR PLANS
S-403 STRUCTURAL ENLARGED PLANS
S-500 STRUCTURAL GENERAL DETAILS - CONCRETE
S-501 STRUCTURAL GENERAL DETAILS - CONCRETE
S-510 STRUCTURAL GENERAL DETAILS - MASONRY
S-511 STRUCTURAL GENERAL DETAILS - MASONRY
S-512 STRUCTURAL GENERAL DETAILS - MASONRY
S-513 STRUCTURAL GENERAL DETAILS - MASONRY
S-520 STRUCTURAL GENERAL DETAILS - STEEL
S-521 STRUCTURAL DESIGNED CONN DETAILS - STEEL
S-522 STRUCTURAL DESIGNED CONN DETAILS - STEEL
S-523 STRUCTURAL DESIGNED CONN DETAILS - STEEL
S-524 STRUCTURAL GENERAL DETAILS - BRACED FRAME
S-525 STRUCTURAL FRAMING DETAILS - CANOPY COLUMN
S-526 STRUCTURAL FRAMING DETAILS - DOUBLE CANOPY COLUMN
S-527 STRUCTURAL FRAMING DETAILS - DOUBLE CANOPY COLUMN
S-528 STRUCTURAL FRAMING DETAILS
S-529 STRUCTURAL FRAMING DETAILS
S-530 STRUCTURAL FRAMING DETAILS
S-600 FOUNDATION SCHEDULE
S-601 FOUNDATION SCHEDULE
S-620 BASE PLATE SCHEDULE

TRACK STRUCTURE
ST-001 STRUCTURAL NOTES AND ABBREVIATIONS (SHEET 1 OF 2)
ST-002 STRUCTURAL NOTES AND ABBREVIATIONS (SHEET 2 OF 2)
ST-100 TRACK STRUCTURE FRAMING PLAN - 1
ST-101 TRACK STRUCTURE FRAMING PLAN - 2
ST-102 PLATFORM LEVEL FRAMING PLAN - 1
ST-103 PLATFORM LEVEL FRAMING PLAN - 2
ST-200 EXISTING STEEL MODIFICATIONS (SHEET 1 OF 10)
ST-201 EXISTING STEEL MODIFICATIONS (SHEET 2 OF 10)
ST-202 EXISTING STEEL MODIFICATIONS (SHEET 3 OF 10)
ST-203 EXISTING STEEL MODIFICATIONS (SHEET 4 OF 10)
ST-204 EXISTING STEEL MODIFICATIONS (SHEET 5 OF 10)
ST-205 EXISTING STEEL MODIFICATIONS (SHEET 6 OF 10)
ST-206 EXISTING STEEL MODIFICATIONS (SHEET 7 OF 10)
ST-207 EXISTING STEEL MODIFICATIONS (SHEET 8 OF 10)
ST-208 EXISTING STEEL MODIFICATIONS (SHEET 9 OF 10)
ST-209 EXISTING STEEL MODIFICATIONS (SHEET 10 OF 10)
ST-300 PLATFORM TYPICAL SECTIONS - 1
ST-301 PLATFORM TYPICAL SECTIONS - 2
ST-302 PLATFORM TYPICAL SECTIONS - 3
ST-303 PLATFORM TYPICAL SECTIONS - 4
ST-400 OUTBOUND ELEVATOR FRAMING PLAN
ST-401 INBOUND ELEVATOR FRAMING PLAN
ST-500 COLUMN TYPICAL DETAILS - 1
ST-501 COLUMN TYPICAL DETAILS - 2
ST-502 COLUMN TYPICAL DETAILS - 3
ST-503 OVERHANG TYPICAL DETAILS - 1
ST-504 OVERHANG TYPICAL DETAILS - 2
ST-505 OVERHANG TYPICAL DETAILS - 3
ST-506 OVERHANG TYPICAL DETAILS - 4
ST-507 PLATFORM TYPICAL DETAILS - 1
ST-508 PLATFORM TYPICAL DETAILS - 2
ST-509 PLATFORM TYPICAL DETAILS - 3
ST-510 PLATFORM TYPICAL DETAILS - 4
ST-600 PLATFORM STEEL BEAM SCHEDULE
ST-601 STRUCTURAL LOAD TABLE - 1

TRACK STRUCTURE (CONTINUED)
ST-602 STRUCTURAL LOAD TABLE - 2
SX-100 BENT STAGING PLAN - 1
SX-200 BENT STAGING ELEVATION - 1
SX-201 BENT STAGING ELEVATION - 2
SX-301 TEMPORARY SUPPORT DETAILS - 1
SX-302 TEMPORARY SUPPORT DETAILS - 2
SX-303 TEMPORARY SUPPORT DETAILS - 3

ARCHITECTURAL
A-001 GENERAL NOTES
A-002 ABBREVIATIONS
AD-101 STREET LEVEL AND PLATFORM DEMO PLAN
AD-102 CANOPY DEMO PLAN
AD-111 PLATFORM DEMOLITION PLANS
AD-201 DEMOLITION VIEWS
A-101 SITE PLAN
A-102 OVERALL STREET LEVEL AND PLATFORM LEVEL PLANS
A-103 OVERALL PLATFORM CANOPY PLAN
A-112 STREET LEVEL PLAN CENTER
A-113 STREET LEVEL PLAN SOUTH
A-121 PLATFORM LEVEL PLAN NORTH
A-122 PLATFORM LEVEL PLAN CENTER
A-123 PLATFORM LEVEL PLAN SOUTH
A-131 ELECTRICAL AND MACHINE ROOM BUILDING PLANS
A-141 STREET LEVEL- REFLECTED CEILING PLAN
A-142 PLATFORM LEVEL - REFLECTED CEILING PLAN
A-151 STATIONHOUSE AND ELECTRICAL BLDG ROOF PLAN
A-152 PLATFORM CANOPY AND ELEVATOR ROOF PLAN
A-161 STAIR 1 PLAN AND ROOF PLAN
A-162 STAIR 2 PLAN AND ROOF PLAN
A-171 ELEVATOR PLANS
A-181 TEMPORARY STATION OVERALL PLAN
A-182 TEMP STATION ENLARGED PLAN
A-183 TEMP STATION CAK
A-201 OVERALL ELEVATIONS
A-202 PLATFORM ELEVATIONS - INBOUND
A-203 PLATFORM ELEVATIONS- OUTBOUND
A-204 ENLARGED ELEVATIONS
A-211 ELECTRICAL AND MACHINE ROOM BUILDING ELEVATIONS
A-221 STAIR 1 ELEVATIONS
A-222 STAIR 2 ELEVATIONS
A-223 STAIR 2 ELEVATIONS
A-231 OUTBOUND ELEVATOR TOWER ELEVATIONS
A-232 INBOUND ELEVATOR TOWER ELEVATIONS
A-241 ELEVATOR CAB ELEVATIONS
A-301 SECTIONS
A-311 STAIR 1 SECTIONS
A-312 STAIR 2 SECTIONS
A-321 ELEVATOR TOWER SECTIONS
A-331 ENLARGED PLATFORM SECTIONS
A-341 WALL SECTIONS
A-401 STAIR 2 ENLARGED PLATFORM PLANS
A-402 ENLARGED PLANS
A-501 STAIR DETAILS
A-502 STAIR CANOPY DETAILS
A-503 PLATFORM RAILING DETAILS
A-504 PLATFORM RAILING DETAILS
A-505 WINDBREAK DETAILS
A-506 CANOPY DETAILS
A-507 STATIONHOUSE DRIP PAN DETAILS
A-508 ROOFING DETAILS
A-509 SECURITY GATE DETAILS
A-510 ELEVATOR DETAILS
A-511 ELEVATOR DETAILS
A-512 ELEVATOR DETAILS
A-513 ELEVATOR DETAILS
A-514 ELEVATOR CAB DETAILS
A-515 TRACK ACCESS STAIR DETAILS
A-516 DETECTABLE WARNING TILE DETAILS
A-517 PIPE SLEEVE DETAILS
A-518 PIPE SLEEVE DETAILS
A-601 ROOM AND DOOR SCHEDULE DOOR DETAILS
A-900 CTA CLEARANCE DIAGRAMS
A-901 3D VIEWS

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ALL STATIONS ACCESSIBILITY PROGRAM

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CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	S. LASHOCK
CHECKED BY	S. LASHOCK
DESIGNED BY	J. SCHAEFER
DRAWN BY	J. SCHAEFER

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INDEX OF DRAWINGS

LSCAL G-002

VOLUME: X OF X

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VOLUME I: INDEX OF DRAWINGS

ARCHITECTURAL GRAPHICS

AG-101	SIGNAGE - STREET LEVEL PLAN NORTH
AG-102	SIGNAGE - STREET LEVEL PLAN CENTER
AG-103	SIGNAGE - STREET LEVEL PLAN SOUTH
AG-104	SIGNAGE - TEMP STATION
AG-111	SIGNAGE- PLATFORM LEVEL NORTH
AG-112	SIGNAGE- PLATFORM LEVEL CENTER
AG-113	SIGNAGE - PLATFORM LEVEL SOUTH
AG-201	SIGNAGE ELEVATIONS -INBOUND PLATFORM
AG-202	SIGNAGE ELEVATIONS -OUTBOUND PLATFORM
AG-501	SIGNAGE DETAILS
AG-502	SIGNAGE DETAILS
AG-503	SIGNAGE DETAILS
AG-504	STANDARD DRILLING PATTERNS
AG-510	CTA COMPASS ROSE
AG-601	SIGNAGE SCHEDULE
AG-602	SIGNAGE SCHEDULE
AG-603	TEMP SIGNAGE SCHEDULE
AG-604	TEMP SIGNAGE SCHEDULE

EQUIPMENT

Q-001	EQUIPMENT COVER SHEET
Q-002	GENERAL ELEVATOR INFORMATION
Q-003	PLANS AND HOISTWAY SECTION - ELEVATOR 1
Q-004	PLANS AND HOISTWAY SECTION - ELEVATOR 2
Q-005	MACHINE ROOM PLAN - ELEVATORS 1-2

EARTH RETENTION SYSTEM

ERS-500	ELEVATOR PIT ERS PLAN
ERS-501	ERS-ELEVATION - INBOUND & OUTBOUND ELEVATOR
ERS-502	ERS NOTES

PLUMBING

P-001	PLUMBING SYMBOLS LIST AND ABBREVIATIONS
P-101	STATION UNDERGROUND PLAN
P-102	STATION PLUMBING PLAN
P-103	STATION PLUMBING PLAN - ST. GEORGES COURT
P-201	PLATFORM UNDERGROUND PLAN
P-202	PLATFORM PLUMBING PLAN
P-501	PLUMBING DETAILS
P-601	PLUMBING SCHEDULES
P-602	PLUMBING WASTE RISER DIAGRAMS

MECHANICAL

M-001	MECHANICAL SYMBOLS LEGEND
M-002	MECHANICAL ABBREVIATIONS
M-101	STATION HVAC PLAN
M-102	PLATFORM HVAC PLAN
M-501	MECHANICAL DETAILS
M-601	MECHANICAL SCHEDULES

ELECTRICAL

E-001	ELECTRICAL SYMBOLS LEGEND AND ABBREVIATIONS
E-002	ELECTRICAL NOTES
ED-100	OVERALL STATION AND PLATFORM DEMOLITION POWER PLANS
ED-101	STATION DEMOLITION POWER PLAN
ED-102	PLATFORM DEMOLITION POWER PLAN - NORTH
ED-103	PLATFORM DEMOLITION POWER PLAN - CENTER
ED-104	PLATFORM DEMOLITION POWER PLAN - SOUTH
ED-105	OVERALL STATION AND PLATFORM DEMOLITION LIGHTING PLANS
ED-106	STATION DEMOLITION LIGHTING PLAN
ED-107	PLATFORM DEMOLITION LIGHTING PLAN - NORTH
ED-108	PLATFORM DEMOLITION LIGHTING PLAN - CENTER
ED-109	PLATFORM DEMOLITION LIGHTING PLAN - SOUTH
E-100	OVERALL STATION AND PLATFORM POWER PLANS
E-101	STATION PROPOSED POWER PLAN
E-102	PLATFORM PROPOSED POWER PLAN - NORTH
E-103	PLATFORM PROPOSED POWER PLAN - CENTER
E-104	PLATFORM PROPOSED POWER PLAN - SOUTH
E-105	OVERALL STATION AND PLATFORM LIGHTING PLANS
E-106	STATION PROPOSED LIGHTING PLAN
E-107	PLATFORM PROPOSED LIGHTING PLAN - NORTH

ELECTRICAL (CONTINUED)

E-108	PLATFORM PROPOSED LIGHTING PLAN - CENTER
E-109	PLATFORM PROPOSED LIGHTING PLAN - SOUTH
E-110	PLATFORM AND STATION GROUNDING PLANS
E-400	ENLARGED MAIN ELECTRICAL ROOM
E-401	ELECTRICAL BUILDING - ENLARGED UNDERGROUND PLAN
E-501	GROUNDING DETAILS
E-502	ELECTRICAL DETAILS
E-600	GROUNDING DIAGRAMS
E-601	EXISTING ELECTRICAL SINGLE LINE DIAGRAM
E-602	ELECTRICAL SINGLE LINE DIAGRAM
E-603	FIRE ALARM RISER DIAGRAM
E-604	ELECTRICAL DIAGRAMS
E-605	ELECTRICAL DIAGRAMS
E-606	ELECTRICAL DIAGRAMS
E-607	ELECTRICAL DETAILS
E-608	ELECTRICAL DETAILS
E-609	MECHANICAL EQUIPMENT SCHEDULE
E-610	ELECTRICAL SCHEDULES
E-611	ELECTRICAL PANEL SCHEDULES
E-612	ELECTRICAL PANEL SCHEDULES
E-613	ELECTRICAL PANEL SCHEDULES

TELECOMMUNICATIONS

T-001	COMMUNICATIONS SYMBOL LIST, ABBREVIATIONS AND GENERAL NOTES
TD-101	STATION COMMUNICATIONS DEMO PLAN
TD-102	PLATFORM COMMUNICATIONS DEMO PLAN - NORTH
TD-103	PLATFORM COMMUNICATIONS DEMO PLAN - CENTER
TD-104	PLATFORM COMMUNICATIONS DEMO PLAN - SOUTH
T-101	STATION COMMUNICATIONS PLAN
T-102	PLATFORM COMMUNICATIONS PLAN - NORTH
T-103	PLATFORM COMMUNICATIONS PLAN - CENTER
T-104	PLATFORM COMMUNICATIONS PLAN - SOUTH
T-601	COMMUNICATIONS EQUIPMENT WIRING DIAGRAM

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INDEX OF DRAWINGS

LSCAL G-003

VOLUME: X OF X

LSCAL_000_G-003
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GENERAL NOTES

1. ALL MATERIAL AND CONSTRUCTION METHODS MUST BE DONE ACCORDING TO THE LATEST CHICAGO TRANSIT AUTHORITY (CTA) SPECIFICATIONS AND THE MOST CURRENT EDITION OF THE CTA ADJACENT CONSTRUCTION MANUAL.
2. THE TERM "AUTHORITY" MEANS THE CHICAGO TRANSIT AUTHORITY ACTING BY AND THROUGH THE CHICAGO TRANSIT BOARD OR ITS DULY AUTHORIZED AGENT, SERVANT OR EMPLOYEE IN CONNECTION WITH THESE CONTRACT DOCUMENTS.
3. THE CONTRACTOR MUST NOTIFY THE AUTHORITY OF ANY DISCREPANCIES BETWEEN THE CONTRACT DOCUMENTS, DETAILS, SPECIFICATIONS AND ANY OTHER DOCUMENTS OR EXISTING CONDITIONS FOR RESOLUTION PRIOR TO PROCEEDING WITH THE WORK.
4. ALL DETAILS, SECTIONS, AND NOTES ON THE DRAWINGS ARE INTENDED TO BE TYPICAL WHERE CONDITIONS ARE SIMILAR TO THOSE INDICATED BY DETAIL OR DETAIL TITLE OR NOTE.
5. USE ONLY DIMENSIONS INDICATED ON THE DRAWINGS. DO NOT SCALE DRAWINGS OR USE ANY DIMENSIONS FROM ELECTRONIC DRAWING FILES.
6. PRINCIPAL OPENING SIZES AND LOCATIONS ARE INDICATED ON THE DRAWINGS. ADDITIONAL, SMALLER OPENINGS, BLOCK OUTS AND SLEEVES MAY BE REQUIRED BY OTHER DISCIPLINES AND MUST BE CONSTRUCTED USING THE CRITERIA INDICATED IN THE STRUCTURAL DOCUMENTS. IF NO DETAILS ARE APPLICABLE, SUBMIT PROPOSED METHOD TO THE AUTHORITY FOR APPROVAL.
7. THE SPECIFICATIONS AND DRAWINGS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION, UNLESS OTHERWISE NOTED. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES AND OPERATION OF CONSTRUCTION AND SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO.
8. THE CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ELEVATIONS, NEW AND EXISTING, BY MEASUREMENTS AND SURVEYS AT THE JOB SITE, PRIOR TO SUBMITTAL OF SHOP DRAWINGS. THE CONTRACTOR MUST TAKE ANY AND ALL OTHER MEASUREMENTS NECESSARY TO VERIFY CONFORMANCE WITH THE DRAWINGS AND TO PERFORM THE WORK PROPERLY. INCLUDING MINIMUM VERTICAL CLEARANCES NEAR THE TRACK AN ALLOWANCE FOR THE COST TO VERIFY AND MEASURE THE EXISTING CONDITIONS MUST BE INCLUDED IN THE CONTRACTOR'S BID.
9. EQUIPMENT WEIGHTS AND STRUCTURAL ITEMS IN ANY WAY RELATED TO THE SUPPORT OF EQUIPMENT OR OPENINGS ARE INDICATED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR MUST VERIFY AND COORDINATE SIZE, LOCATION AND QUANTITY OF OPENINGS AND EQUIPMENT WEIGHTS REQUIRED FOR ARCHITECTURAL, MECHANICAL AND ELECTRICAL TRADES. THE CONTRACTOR MUST OBTAIN APPROVAL OF AFFECTED TRADES BEFORE PROCEEDING WITH SUCH PORTION OF THE WORK. CHANGES REQUIRED BY EQUIPMENT IN EXCESS OF THE WEIGHT OR GEOMETRIC ALLOWANCES ARE THE CONTRACTOR'S RESPONSIBILITY. TEMPORARY SUPPORTS MUST NOT BE PLACED UNDER STEEL OPENINGS WITHOUT CALCULATIONS BEING PERFORMED TO ENSURE COMPONENT IS STRUCURALLY ADEQUATE FOR THE TEMPORARY CONDITION BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF ILLINOIS.
10. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE STRUCTURAL WORK WITH THE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS, AS WELL AS ANY OTHER APPLICABLE TRADES. IN CASE OF CONFLICT BETWEEN THE STRUCTURAL WORK AND DRAWINGS RELATED TO OTHER TRADES, THE CONTRACTOR MUST MAKE ALLOWANCES IN HIS BID FOR THE MORE SEVERE REQUIREMENTS. CONFLICTS BETWEEN THE STRUCTURAL WORK AND THE DRAWINGS OF OTHER TRADES MUST NOT BE REASON FOR ANY EXTRA COST OR DELAY IN EXECUTION OF THE WORK. THE CONTRACTOR MUST NOTIFY THE AUTHORITY OF FOUND DISCREPANCIES FOR RESOLUTION PRIOR TO PROCEEDING WITH WORK.
11. THE CONTRACTOR MUST FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT FOR SUCCESSFUL COMPLETION OF THIS PROJECT. ALL FIELDWORK MUST BE COORDINATED AND CONTINUOUSLY SUPERVISED BY THE CONTRACTOR.
12. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN, INSTALLATION, AND REMOVAL OF ALL TEMPORARY BRACING, EARTH RETENTION SYSTEMS, AND CONSTRUCTION SUPPORTS, FOR NEW AND EXISTING STRUCTURES, AS NECESSARY TO COMPLETE THE PROJECT. NO PORTION OF THE PROJECT, WHILE UNDER CONSTRUCTION, IS INTENDED TO BE STABLE IN THE ABSENCE OF THE CONTRACTOR'S TEMPORARY BRACES AND SUPPORTS. THE CONTRACTOR MUST RETAIN A STRUCTURAL ENGINEER LICENSED IN THE STATE OF ILLINOIS TO DESIGN ALL TEMPORARY BRACING AND CONSTRUCTION SUPPORTS. TEMPORARY BRACING AND CONSTRUCTION SUPPORT CALCULATIONS AND DRAWINGS MUST BE SEALED BY AN ILLINOIS LICENSED STRUCTURAL ENGINEER AND SUBMITTED TO THE AUTHORITY FOR APPROVAL.
13. STRUCTURAL STABILITY IS ACHIEVED IN THE FINISHED CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE UNTIL THE CONSTRUCTION OF THE STRUCTURE REACHES ITS FINISHED STATE.
14. CONTRACTOR MUST SECURE ALL NECESSARY PERMITS BEFORE WORK COMMENCES.
15. SEE SUGGESTED PHASING PLANS AND SX PLANS FOR GENERAL SUGGESTED STAGING.
16. SEE CIVIL PLANS FOR MOT AND GENERAL STAGING DETAILS.
17. SEE TRACK STRUCTURAL DRAWINGS FOR ADDITIONAL SUGGESTED STAGING DETAILS REGARDING TRACK STRUCTURE.
18. ALL EXISTING SIGNAGE TO BE SALVAGED AND RETURNED TO THE AUTHORITY.

HAZARDOUS WARNING CONDITIONS

1. THE CONTRACTOR IS WARNED OF THE PRESENCE OF HIGH VOLTAGE EQUIPMENT AND CABLES ON THE PROPERTY AND MUST TAKE ALL NECESSARY PRECAUTIONS TO PREVENT INJURY TO PERSONNEL OR DAMAGE TO PROPERTY THROUGH CONTACT WITH ELECTRICAL AND OPERATING SYSTEMS. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT CONTACT WITH THE ELECTRIFIED EQUIPMENT OR CTA POWER CABLES MAY RESULT IN SEVERE BURNS OR DEATH.
2. ALL CONDITIONS AND DIMENSIONS PERTAINING TO EXISTING UTILITIES AND CONSTRUCTION, AT THE SITE, MUST BE VERIFIED BY THE CONTRACTOR BEFORE PROCEEDING WITH THE WORK, INCLUDING FABRICATION OF ANY MEMBERS. THIS ASSESSMENT SHALL BE CONDUCTED SUFFICIENTLY IN ADVANCE OF ANY PHASE OF CONSTRUCTION, TO THE MAXIMUM EXTENT POSSIBLE, TO AVOID DELAYS IN THE WORK.
3. THE CONTRACTOR IS WARNED OF POSSIBLE LEAD PRESENCE. SEE ABATEMENT PLANS AND SPECIFICATIONS.

SAFETY AND TRAFFIC REGULATION

1. DURING ALL PHASES OF CONSTRUCTION, THE CONTRACTOR IS REQUIRED TO FOLLOW AND COMPLY WITH ALL (CITY, STATE AND FEDERAL) APPLICABLE SAFETY CODES, AND REGULATIONS REGARDING AIR, WATER AND NOISE POLLUTION.
2. THE CONTRACTOR IS RESPONSIBLE FOR TRAFFIC CONTROL AND PROTECTION AS REQUIRED BY THE CITY OF CHICAGO, THE ILLINOIS DEPARTMENT OF TRANSPORTATION, OR GOVERNING JURISDICTION.
3. CTA TRAFFIC PLANNING MUST BE NOTIFIED AT LEAST 2 WEEKS IN ADVANCE OF ANY IMPACTS TO BUS STOPS OR BUS OPERATIONS. TRAFFIC.PLANNING@TRANSITCHICAGO.COM OR 312-681-4151

DEPT. OF WATER MANAGEMENT

1. CONTRACTOR TO AVOID THE USE OF HEAVY EQUIPMENT OR STRUCTURAL ITEMS ON TOP OF DEPARTMENT OF WATER MANAGEMENT FACILITIES.

STATION OPERATIONS DURING CONSTRUCTION

1. CONTRACTOR MUST MAINTAIN STATION EXITING ROUTES, EXITING SIGNAGE, TEMPORARY SIGNAGE, AND COMMUNICATIONS AND LIGHTING LEVELS AT ALL TIMES.
2. PROTECTIVE BARRIERS AND OVERHEAD TEMP. CANOPIES ARE REQUIRED WHEN THE AUTHORITY DEEMS NECESSARY FOR SAFETY.

SIGNALS ADJACENT WORK

1. CONTRACTOR TO FURNISH AND INSTALL SIGNAL CABLE SUPPORT MATERIAL AS OUTLINED IN THIS SECTION. TEMPORARY AND PERMANENT SIGNAL CABLE WILL BE PERFORMED BY THE AUTHORITY. CONTRACTOR TO COORDINATE WITH THE AUTHROTIY FOR DELINEATION OF WORK AND LOCATIONS AND INSTALLATION OF SIGNAL CONDUITS.
2. REFER TO THE FOLLOWING SPECIFICAITONS
   - A. SECTION 34 43 96 SIGNAL COMMUNICATIONS COPPER CABLING
   - B. SECTION 34 42 62 JUNCTION BOXES
   - C. SECTION 34 42 40 EXTERNAL SIGNAL CABLE
   - D. SECTION 34 42 42 SIGNAL COMMUNICATIONS FIBER OPTIC CABLE PLANT
   - E. SECTION 34 42 04 SIGNAL SYSTEM DRAWING REQUIREMENTS
3. SUBMITTALS TO BE REVIEWED BY THE AUTHORITY:
   - A. SYSTEMS CUTOVER PLAN AND PROCESS PLAN DESCRIBING PHASED APPROACH TO INSTALLATION OF TEMPORARY AND PERMANENT WORK RELATED TO THE SIGNAL SYSTEM.
   - B. PRODUCT DATA AS DESCRIBED IN SPECS. PROJECT WIDE RENEWAL
4. FURNISH THE FOLLOWING NEW MATERIAL, EQUIPMENT, AND SYSTEMS:
   - A. CABLES AND ASSOCIATED MATERIALS, IN ACCORDANCE WITH SECTION 34 42 40, EXTERNAL CABLES:
     - I. SIGNAL CABLES
     - II. MESSENGER, MESSENGER WIRE HANGERS, SUPPORTS, BRACKETS, DEAD-ENDS, AND ASSOCIATED HARDWARE.
     - III. GRS RIGID CONDUIT SYSTEMS, INCLUDING CONDUIT, HANGERS, SUPPORTS, BRACKETS, EXPANSION COUPLERS, FITTINGS, AND ASSOCIATED HARDWARE THROUGH CALIFORNIA STATION UNDER THE PLATFORM AREA.
     - IV. TEMPORARY SIGNAL CABLES AS REQUIRED TO MAINTAIN SIGNAL SYSTEM OPERATION DURING STATION DEMOLITION AND TO FACILITATE STATION CONSTRUCTION STAGING.
   - B. FIBER SPLICE CLOSURES (SECTION 34 42 42)
   - C. FURNISH AND DELIVER REMAINING CABLE TO THE CHICAGO TRANSIT AUTHORITY, WEST SHOPS, ATTN: MANAGER, SIGNAL MAINTENANCE.
   - D. FURNISH THE FOLLOWING MINIMUM CABLE QUANTITIES:
     - I. RELAY HOUSE TO JB 306
       1. 12C#9 420 FEET X 2
       2. 20TWPR#14 - 840 FEET X 2
       3. 37C#14 420 FEET X 2
       4. 12 FIBER -
       5. 1TWPR#9 3360 FEET X 2
       6. 37C#14 840 FEET X 2
       7. 12C#14 1680 FEET X 2
       8. 3C#9 1680 FEET X 2
       9. 1C#9 1630 FEET X 2
     - II. RELAY HOUSE TO JB 300
       1. 12C#9 325 FEET X 2
       2. 20TWPR#14 325 FEET X 2
       3. 37C#14 325 FEET X 2
     - III. RELAY HOUSE TO SIGNAL HUT ON OUTBOUND PLATFORM.
       1. 100C#19 900 FEET X2
       2. 5C#9 450 FEET X2
5. SIGNAL WORK DESCRIPTION
   1. PHASE WORK TO ENSURE CONTINUOUS UP-TIME FOR BOTH SIGNAL SYSTEM AND LOCAL CONTROL PANEL IN THE SIGNAL HUT ON THE OUTBOUND PLATFORM.
   2. FURNISH NEW SIGNAL CABLE BETWEEN JUNCTION BOXES AND RELAY HOUSE. FURNISH LOCAL CABLE BETWEEN RELAY HOUSE AND SIGNAL BOOTH ON OUTBOUND PLATFORM. FURNISH AND INSTALL TEMPORARY SUPPORTS FOR THE TEMPORARY CABLE AND EXISTING CABLES. FURNISH FIBER SPLICE CLOSURES NECESSARY FOR FIBER CABLES.
   3. PROTECT TEMPORARY BYPASS SIGNAL CABLES & MESSENGERS TO FACILITATE STATION CONSTRUCTION. TEMPORARY CABLES SHALL MEET THE SAME REQUIREMENTS OF THE FINAL CABLES.
4. FURNISH AND INSTALL NEW ELECTRICAL CONDUIT SYSTEMS, INCLUDING RACEWAYS, EXPANSION COUPLINGS, SUPPORT BRACKETS, AND HANGERS. ELECTRICAL CONDUIT SYSTEMS SHALL BE COORDINATED WITH OTHER STATION ELECTRICAL WORK AND SHALL CONFORM TO THE REQUIREMENT FOR STATION ELECTRICAL WORK. A MINIMUM OF 6 GALVANIZED RIGID CONDUIT RUNS SHALL BE INSTALLED AS SHOWN ON THE DRAWINGS FOR THE FINAL INSTALLATION. ONE 4"CONDUIT SHALL BE USED TO CARRY THE WIRING FROM THE RELAY HOUSE TO JUNCTION BOX 300 (NEAR BENT 154) JUST SOUTH OF THE INBOUND PLATFORM, ONE 4" CONDUIT SHALL BE USED TO CARRY THE WIRING FROM THE RELAY HOUSE TO THE EXISTING SIGNAL HUT ON THE OUTBOUND PLATFORM, AND OTHER FOUR 4" CONDUITS WILL BE UTILIZED FOR ROUTING THE EXPRESS SIGNAL CABLES & LOCAL CABLES THROUGH THE STATION TOWARDS JUNCTION BOX 306 (NEAR BENT 167). CONDUIT RUNS SHALL BE STRAIGHT FOR THE ENTIRE LENGTH OF THE RUN WITHOUT ANY INTERMEDIATE PULL BOXES. CONDUITS SUPPORT CAN BE SHARED BETWEEN THESE RUNS AND THE STATION ELECTRICAL CONDUITS. CONDUITS SHALL BE SUSPENDED FROM THE FLOOR STEEL BEAMS. EXPANSION COUPLINGS SHALL BE FURNISHED AND INSTALLED IN THE VICINITY OF ALL EXPANSION BENTS ALONG THE RUNS. COUPLINGS MAY BE STAGGERED BUT SHALL BE BETWEEN ADJACENT SUPPORTS ON EITHER SIDE OF THE EXPANSION BENTS.
6. FURNISH AND INSTALL NEW MESSENGER SYSTEM, INCLUDING SUPPORTS AND BRACKETS. EXISTING MESSENGER AND SUPPORT BRACKETS THAT ARE NOT DISTURBED BY STATION DEMOLITION AND CONSTRUCTION MAY BE REUSED. MESSENGER SHALL BE THROUGHOUT THE LIMITS SHOWN ON THE DRAWINGS. THIS WORK'S FINAL INSTALLATION SHALL INCLUDE SYSTEMS UNDER/WITHIN THE INBOUND CALIFORNIA STATION FROM THE LIMITS OF THE CONDUIT SYSTEM TO JUNCTION BOX 306 (BENT 167), FROM THE SOUTH LIMITS OF THE CONDUIT SYSTEM TO JUNCTION BOX 300 (BENT 154), AND BETWEEN NEWLY INSTALLED SIGNAL CONDUIT RUNS BY BENT 159 TO CARRY CABLING FROM RELAY HOUSE TO CONDUITS. FURNISH CABLE REELS TO BE DELIVERED TO THE CTA.

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CHICAGO TRANSIT AUTHORITY
ENGINEERING

SENSITIVE SECURITY INFORMATION

WARNING: THIS RECORD CONTAINS SENSITIVE SECURITY INFORMATION THAT IS CONTROLLED UNDER 49 CFR PARTS 15 AND 1520. NO PART OF THIS RECORD MAY BE DISCLOSED TO PERSONS WITHOUT A "NEED TO KNOW" AS DEFINED IN CFR PARTS 15 AND 1520, EXCEPT WITH THE WRITTEN PERMISSION OF THE ADMINISTRATOR OF THE TRANSPORTATION SECURITY ADMINISTRATION OR THE SECRETARY OF TRANSPORTATION. UNAUTHORIZED RELEASE MAY RESULT IN CIVIL PENALTY OR OTHER ACTION. FOR U.S. GOVERNMENT AGENCIES, PUBLIC DISCLOSURE IS GOVERNED BY 5 U.S.C. 552 AND 49 CFR PARTS 15 AND 1520.

DRAWING SCALE IS NOT GUARANTEED.
CTA ASSUMES NO RISK OF LIABILITY FOR ERRORS CAUSED, DIRECTLY OR INDIRECTLY, BY SCALING OF THIS DRAWING.

LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	
IN CHARGE	
APPROVED BY	
CHECKED BY	
DESIGNED BY	
DRAWN BY	

MARK	DATE	DESCRIPTION
0	12/30/24	ISSUE FOR BID

GENERAL NOTES

LSCAL G-004

VOLUME: X OF X

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GENERAL CODE REQUIREMENTS FOR CALIFORNIA ELEVATED STATION - BASED ON CHICAGO ZONING ORDINANCE (CZO) AND 2019 CHICAGO BUILDING CODE (CBC)

ITEM	ISSUE	CHAPTER/ARTICLE	ORDINANCE/CODE REQUIREMENT	ACTUAL	REQUIREMENT N/A	LOCATIONS/SHEET NO.
Z.01	Zoning District / Planned Development No.	zoning map		C1-1		2211 N California Ave
Z.02	Existing Zoning Use(s)	17-17-0100		C1-1		Permit Application
Z.03	Proposed Zoning Use(s)	17-17-0100			N/A	
Z.04	Chicago Landmark Designation	recorded deed restriction			N/A	
Z.05	Lakefront Protection District	zoning map, Ch. 16-4			N/A	
Z.06	Zoning Overlay District	zoning map, Ch. 17-7		ADU		
Z.07	Pedestrian Street	zoning map, 17-3-0500			N/A	
Z.08	Lot Area	17-17-0302		.15 Acres		
2019 Chicago Building Code Requirements						
Occupancy Classification and Use						
B.03.01	Proposed Occupancy Classification(s)	14B-3-302.1	ASSEMBLY GROUP A-3 (WAITING AREAS IN TRANSPORTATION TERMINALS)	ASSEMBLY GROUP A-3 (WAITING AREAS IN TRANSPORTATION TERMINALS)		
General Building Heights and Areas						
B.05.01	Building Height in Feet Above Grade Plane	14B-2-203.3, 14B-5-504.3	A3, NON SPRINKLERED, TYP II-B CONSTRUCTION TYPE = 30FT MAX	EXISTING STRUCTURE IS 33'-0" TO MEAN ELEVATION OF CANOPY ROOF. PROPOSED UNOCCUPIED ELEVATOR PENTHOUSE TO 39'-1".		
B.05.02	Number of Stories Above Grade Plane	14B-2-202, 14B-5-504.4	A3, NON SPRINKLERED, TYP II-B CONSTRUCTION TYPE = 1 STORY ABOVE GRADE PLANE MAX	EXISTING AND PROPOSED IS 2 STORIES.		
B.05.03	Building Area	14B-2-203.4, 14B-5-506	A3, NON SPRINKLERED, TYP II-B CONSTRUCTION TYPE = 8500SF MAX	8191SF, INCLUDES STATIONHOUSE, COVERED STATION PLAZA, ENCLOSED STAIRS, PLATFORM AREAS UNDER CANOPY, NEW ELECTRICAL BUILDING.		
B.05.04	Accessory Occupancies	14B-5-508.2	NO SEPARATION IS REQUIRED BETWEEN ACCESSORY OCCUPANCIES AND MAIN OCCUPANCY. EXCEPTIONS: GROUP A OCCUPANCIES WITH AN OCCUPANT LOAD OF 300 OR MORE SHALL BE SEPARATED FROM OTHER OCCUPANCIES BY 2 HOUR RATED CONSTRUCTION.	N/A		
B.05.04	Incidental Uses	14B-5-509	INCIDENTAL USES ARE ANCILLARY FUNCTIONS ASSOCIATED WITH A GIVEN OCCUPANCY THAT GENERALLY POSE A GREATER LEVEL OF RISK TO THAT OCCUPANCY AND ARE LIMITED TO THOSE USES LISTED IN TABLE 509.	ELECTRICAL BUILDING PROVIDED WITH 3-HOUR SEPARATION AT EXTERIOR WALLS, ROOF AND INTERIOR PARTITIONS.		
Type of Construction						
B.06.01	Construction Classification	14B-6-602, 14B-6-603, 14B-6-604	TYPE II-B	TYPE II-B		
B.06.02	Rating – Primary Structural Frame	Table 14B-6-601, 14B-7-704	0 HOURS	COMPLIES		
B.06.03	Rating – Exterior Bearing Walls	Tables 14B-6-601, 14B-6-602	2 HOURS <3FT, 1 HOUR <30FT/>3FT, 0 HOURS <30FT	COMPLIES		
B.06.04	Rating – Interior Bearing Walls	Table 14B-6-601	0 HOURS	COMPLIES		
B.06.05	Rating – Exterior Nonbearing Walls	Table 14B-6-602	2 HOURS <3FT, 1 HOUR <30FT/>3FT, 0 HOURS <30FT	COMPLIES		
B.06.06	Rating – Floor Construction	Table 14B-6-601	0 HOURS	COMPLIES		
B.06.07	Rating – Roof Construction	Table 14B-6-601	0 HOURS	COMPLIES		
Fire and Smoke Protection Features						
B.07.01	Exterior Wall Projections	14B-7-705.2	NOT PERMITTED			
B.07.02	Exterior Wall Openings	14B-7-705.8	NOT PERMITTED			
B.07.03	Exterior Wall Parapets	14B-7-705.11	NOT REQUIRED IN BUILDINGS UNDER 1000SF	NOT REQUIRED, AREA <1000SF		
B.07.04	Nonfire-resistance-rated Floor and Roof Assemblies	14B-7-711.3	ASSEMBLIES SHALL BE OF MATERIALS PERMITTED BY THE TYPE OF CONSTRUCTION (TYPE II-B).	COMPLIES		
B.07.05	Shaft Enclosure – Rating	14B-7-713.4	1 HOUR WHERE CONNECTING LESS THAN 4 STORIES			
B.07.06	Shaft Enclosure – Exterior Walls	14B-7-713.6	WHERE EXTERIOR WALLS SERVES AS PART OF A REQUIRED SHAFT ENCLOSURE, SUCH WALLS SHALL COMPLY WITH THE REQUIREMENTS OF SECTION 705 FOR EXTERIOR WALLS AND FIRE-RESISTANCE-RATED ENCLOSURES REQUIREMENTS SHALL NOT APPLY.	ELEVATOR HOISTWAYS ARE ENCLOSED WITH EXTERIOR WALLS, SO FIRE RESISTANCE RATED ENCLOUSRE NOT REQUIRED EXCEPT WHERE FSD <10FT. (II-B CONSTRUCTION, A OCCUPANCY) 1-HR RATING PROVIDED AT THIS AREA.		
B.07.07	Penetration of Rated Construction	14B-7-714	THROUGH PENETRATIONS SHALL BE PROTECTED BY AN APPROVED PENETRATION FIRESTOP SYSTEM INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E814 OR UL 1479	FIRESTOP SYSTEM SHALL HAVE A FIRE RATING OF NOT LESS THAN THE REQUIRED FIRE-RESISTANCE RATING OF THE WALL PENETRATED		
B.07.08	Opening Protectives	14B-7-716	OPENINGS IN FIRE BARRIERS (SHAFTS): 2 HR FIRE BARRIER - 1.5 FIRE DOOR 1 HR FIRE BARRIER - 1 HR FIRE DOOR OPENINGS IN OTHER FIRE BARRIERS: 1 HR FIRE BARRIER - 3/4 HR FIRE DOOR	COMPLIES		
Interior Finishes						
B.08.01	Interior Finish: Rooms / Spaces	Table 14B-8-803.13	INTERIOR WALL AND CEILING FINISH MATERIALS SHALL BE CLASSIFIED FOR FIRE PERFORMANCE AND SMOKE DEVELOPMENT IN ACCORDANCE WITH SECTION 803.1.1 OR 803.1.2, EXCEPT AS SHOWN IN SECTION 803.1.3 THROUGH 803.15.	COMPLIES		
B.08.02	Interior Finish: Corridors / Exit Access	Table 14B-8-803.13	INTERIOR FLOOR FINISH AND FLOOR COVERING MATERIALS SHALL COMPLY WITH SECTION 804.2 THROUGH 804.4.2. CLASS A - FLAME SPREAD INDEX 0-25; SMOKE DEVELOPED INDEX 0-450.	COMPLIES		
B.08.03	Interior Finish: Exit / Exit Discharge	Table 14B-8-803.13	INTERIOR FLOOR FINISH AND FLOOR COVERING MATERIALS SHALL COMPLY WITH SECTION 804.2 THROUGH 804.4.2. CLASS A - FLAME SPREAD INDEX 0-25; SMOKE DEVELOPED INDEX 0-450.	COMPLIES		
B.08.04	Interior Finish: Floors	Table 14B-8-803.13	INTERIOR FLOOR FINISH AND FLOOR COVERING MATERIALS SHALL COMPLY WITH SECTION 804.2 THROUGH 804.4.2.	COMPLIES		
B.08.05	Decorative Materials and Trim	Table 14B-8-806	MATERIAL SHALL HAVE A MINIMUM CLASS C FLAME SPREAD AND SMOKE-DEVELOPED INDEX WHEN TESTED IN ACCORDANCE WITH E84 OR UL723.	COMPLIES		

Means of Egress						
B.10.01	Elevators and Escalators	14B-10-1003.7	ELEVATORS AND ESCALATORS SHALL NOT BE USED AS EGRESS COMPONENTS			
B.10.02	Occupant Load Calculations Shown	14B-10-1004.1	ASSEMBLY STANDING SPACE 5 NET SF/OCCUPANT MECHANICAL EQUIPMENT ROOMS 300 GROSS SF/OCCUPANT	REFER TO NFPA 130 CALCS		
B.10.03	Egress Capacity Calculations Shown	14B-10-1005.1	STAIR CAPACITY:0.3 INCH PER OCCUPANT EXIT DOOR CAPACITY:0.2 INCH PER OCCUPANT	REFER TO NFPA 130 CALCS		
B.10.04	Common Path of Egress Travel Distance	Table 14B-10-1006.2.1	A3, NOT SPRINKLERED: 75FT	REFER TO NFPA 130 CALCS		
B.10.06	Accessible Means of Egress	14B-10-1009	AT LEAST TWO REQUIRED. INCLUDES STAIRS COMPLYING WITH 1009.3 AND ELEVATORS COMPLYING WITH 1009.4	AREA OF REFUGE AT STAIRS AND ELEVATORS NOT REQUIRED WITH APPLICATION OF EXCEPTION FOR OPEN AIR ASSEMBLY		
B.10.07	Doors, Gates and Turnstiles	14B-10-1010				
	Size of Door	14B-10-1010.1	MINIMUM CLEAR OPENING 32 INCHES, MEASURED BETWEEN FACE OF DOOR AND STEP WITH DOOR OPEN AT 90 DEGREES	COMPLIES		
	Direction of Swing	14B-10-1010.1.2.1	SHALL SWING IN THE DIRECTIONS OF TRAVEL WHERE SERVING A ROOM OCCUPANT LOAD OF 50 OR MORE	COMPLIES		
	Panic and Exit Hardware Required	14B-10-1010.1.10	REQUIRED WITH AN OCCUPANT LOAD OF 50 OR MORE IN OCCUPANCY TYPE A	COMPLIES		
	Turnstiles	14B-10-1010.3	CAPACITY 50 PERSONS, MUST TURN FREELY IN THE DIRECTION OF EGRESS, ACCESSIBLE TURNSTILE MUST BE AT LEAST 36 INCHES	COMPLIES		
B.10.08	Stairways	14B-10-1011	44" MINIMUM, 48" MINIMUM WHERE STAIR FORMS PART OF AN ACCESSIBLE MEANS OF EGRESS. STAIRWAYS SERVING OCCUPANT LOAD OF LESS THEN 50 TO BE 36" MINIMUM	COMPLIES		
		14B-10-1011.7.4	ENCLOSURE UNDER EXTERIOR STAIRWAYS IS COMPLETELY ENCLOSED IN 1-HOUR FIRE-RESISTANCE-RATED CONSTRUCTION	N/A - NO ENCLOSURES UNDER STAIRWAYS		
B.10.09	Stairway to elevator equipment	14B-10-1011.12.1	ROOF AND PENTHOUSES CONTAINING ELEVATOR EQUIPMENT THAT MUST BE ACCESSED FOR MAINTENANCE ARE REQUIRED TO BE ACCESSED BY STAIRWAY.	COMPLIES		
B.10.10	Handrail	14B-10-1014	HANDRAILS REQUIRED ON EACH SIDE	COMPLIES		
	Handrail Height	14B-10-1014.2	34 TO 38 INCHES MEASURED ABOVE STAIR TREAD NOSING	COMPLIES		
	Handrail Extensions	14B-10-1014.6	HORIZONTAL EXTENSION 12 BEYOND TOP RISER. CONTINUE SLOPE DEPTH OF ONE TREAD BEYOND BOTTOM RISER.	COMPLIES		
	Guard	14B-10-1015	REQUIRED ALONG OPEN-SIDED WALKING SURFACES LOCATED MORE THAN 30 INCHES TO THE FLOOR OR GRADE BELOW	COMPLIES		
	Height of Guard	14B-10-1015.3	NOT LESS THAN 42 INCHES	COMPLIES		
	Opening Limitations	14B-10-1015.4	SHALL NOT ALLOW PASSAGE OF 4 INCHES DIA SPHERE	COMPLIES		
B.10.11	Exit Access Travel Distance	14B-10-1017.2	A3 NON-SPRINKLERED = 200FT MAX PER CBC	PLATFORM MAX TRAVEL DISTANCE: 148'-11" (AT OUTBOUND PLATFORM)		
B.10.12	Dead Ends	14B-10-1020.4	A3 NON-SPRINKLERED = 20FT MAX, A DEAD-END CORRIDOR SHALL NOT BE LIMITED IN LENGTH WHERE THE LENGTH OF THE DEAD-END CORRIDOR IS LESS THAN 2.5 TIMES THE LEAST WIDTH OF THE DEAD-END CORRIDOR.	N/A - NO ENCLOSED CORRIDORS		

Electrical						
B.27.01	Electrical Room Fire Resistance Rating	Table 14B-5-509, Title 14E	NFPA 110.31 (1) WALLS AND ROOF. MINIMUM 3 HOURS RATING	3-HR AT ROOF, 4-HR AT WALLS		
B.27.02	Electrical Room Number of Exits	14B-10-1006.2.2.7	TWO EXIT ACCESS DOORWAYS ARE REQUIRED IN ELECTRICAL ROOMS CONTAINING EQUIPMENT RATED 3,000 AMPERES OR GREATER. EXIT ACCESS DOORWAYS SHALL BE SEPARATED BY A HORIZONTAL DISTANCE EQUAL TO NO LESS THAN ONE-HALF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE ROOM.	COMPLIES		ROOM 5 - ELECTRICAL ROOM
Elevators						
B.30.01	Elevator Cab Dimensions	14B-30-3002.4	ELEVATOR CAB SHALL BE OF SUCH A SIZE AND ARRANGEMENT TO ACCOMMODATE AN AMBULANCE STRETCHER 24 INCHES BY 84 INCHES WITH NOT LESS THAN 5-INCH RADIUS CORNERS.	COMPLIES. EMERGENCY ACCESS TAG PROVIDED AT JAMBS.		
B.30.02	Standby Power for Elevator	14B-10-1009.4.1	REQUIRED.	COMPLIES		
B.30.03	Elevator Machine Room Rating	14B-30-3005.4	MACHINE ROOMS. THE FIRE-RESISTANCE RATING SHALL BE NOT LESS THAN THE REQUIRED RATING OF THE HOISTWAY ENCLOSURE SERVED BY THE MACHINERY.	COMPLIES (3 HR RATING PROVIDED AT MACHINE ROOMS)	2 HR	

Other Required Data

Item	Subject	Code Reference	Complete	N/A
A.04.01	Excavation Certification (Form 402)	14A-4-406	☐	☐
B.11.01	Accessibility Compliance Data	Mayor's Office for People with Disabilities (MOPD) Project Data Form	☐	☐
B.16.01	Structural Design Data	14B-16-1603	☐	☐
B.18.01	Geotechnical Report	14B-18-1803.1, 14B-18-1803.6	☐	☐
E.02.01	Electrical Drawings	14E-2-215.5	☐	☐
M.01.01	Mechanical Equipment Schedules / Specs	14A-4-404.2.1, 14A-4-404.12.1, 14A-4-404.21	☐	☐
M.04.01	Mechanical Ventilation / Exhaust Schedule	18-28-403.14	☐	☐
N.01.01	Energy Conservation Code Compliance Data	14A-4-411.3.13	☐	☐
P.04.01	Plumbing Fixture Schedule	18-29-403.1	☐	☐
P.11.01	Stormwater Management Ordinance Plan	Ch. 11-18	☐	☐

CITY OF CHICAGO DEPARTMENT OF BUILDINGS

GENERAL BUILDING REQUIREMENTS Per Chicago Zoning Ordinance (CZO) and Chicago Building Code (CBC)

ITEM	ISSUE	CHAPTER/ ARTICLE	ORDINANCE REQUIREMENT	ACTUAL
ZONING REQUIREMENTS				
EXIT REQUIREMENTS				
3.01	MINIMUM NUMBER OF EXITS	1006.2.1	2	2
3.02	TRAVEL DISTANCE TO EXITS	1017.2	200' MAX	198'
	DEAD END CORRIDOR	1020.4	N/A	
3.03	CAPACITY OF EXITS	1005.3.1	0.3" / OCCUPANT (STAIR)	
		1005.3.1	0.2" / OCCUPANT (DOOR)	
3.04	MINIMUM WIDTH OF EXIT PASSAGEWAY	NFPA-130	48"	48"
3.05	SWING OF EXIT DOORS	1010.1.2.1	OUT	OUT
3.06	HARDWARE	1010.1.9.1	EGRESS	EGRESS
3.07	REVOLVING DOORS	1010.1.4.1	NOT APPLICABLE	
3.08	LANDINGS	1011.6	48" MIN	48" MIN
3.09	HANDRAILS	1014.2	2'-10" TO 3'-2" HIGH	36" HIGH
3.10	CONSTRUCTION	603	TYPE-IIB	TYPE-IIB (NO CHANGE)
3.11	STAIRWAY ENCLOSURES	1023.2	2 HR	N/A
3.12	HEADROOM	1003.3.1	6'-8" MIN	6'-8" MIN
ACCESSIBILITY REQUIREMENTS				
4.01	MINIMUM WIDTH OF ACCESSIBLE ROUTE	IAC 403.5	36"	36"
4.02	CARPET MAX. PILE THICKNESS	IAC 302.2	1/2"	1/2"
4.03	MINIMUM DOOR WIDTH	IAC 404.2.3 (1010.1.1)	32"	32"
4.04	MINIMUM STAIR WIDTH	1011.2	44"	57" EXISTING (NO CHANGE)
4.05	DOOR HARDWARE MOUNTING HEIGHT	IAC 404.2.7 (1010.1.9.2)	34" MIN - 48" MAX	36"
4.06	DOOR HARDWARE STYLE	IAC 404 (1010.1.9.1)	LEVER: PUSH / U-SHAPE	LEVER / PULL
4.07	DOOR OPENING FORCE	IAC 309.4 (1010.1.3)	INTERIOR HINGE: 5 LBF	5 LBF

ACCESSIBILITY CHECKLIST NOTES:

PROJECT WILL COMPLY WITH CHAPTER 18-11 OF THE CHICAGO BUILDING CODE AND ANSI A117.1-2003
PROJECT WILL COMPLY WITH ADA TITLE II. ALL PROGRAMS, SERVICES, AND ACTIVITIES TO BE MADE ACCESSIBLE TO AND USABLE BY PEOPLE WITH DISABILITIES.

ACCEPTABLE CODES:

CONSTRUCTION CODE: CHICAGO BUILDING CODE: 2019 MODIFIED
MECHANICAL CODE: CHICAGO MECHANICAL CODE: 2019 CURRENT ADDITION.
ELECTRICAL CODE: CHICAGO ELECTRICAL CODE: 2019 CURRENT ADDITION.
ENERGY: ILLINOIS ENERGY CONSERVATION CODE: 2019
LIFE SAFETY: NFPA: 1997
ACCESSIBILITY: 2010 ILLINOIS ACCESSIBILITY CODE, 2010 ADAAG, CHICAGO CODE CHAPTER 18.

PROJECT DESCRIPTION:

THE EXISTING HISTORIC CALIFORNIA BLUE LINE STATION DOES NOT HAVE AN ACCESSIBLE ROUTE TO AND FROM THE STATIONHOUSE ENTRANCE AND THE ELEVATED TRAIN BOARDING PLATFORMS. ALSO, GIVEN THE RIDERSHIP NUMBERS PROVIDED BY CTA, THE EXISTING STATION DOES NOT COMPLY WITH NFPA-130 EGRESS GUIDELINES FOR NUMBER OF EXITS, EGRESS CAPACITY, AND TRAVEL DISTANCES TO EXITS.
THE FOLLOWING PROPOSED STATION IMPROVEMENTS PROVIDE ACCESSIBLE ROUTES TO AND FROM THE STATIONHOUSE ENTRANCE AND THE ELEVATED TRAIN BOARDING PLATFORMS:

1. REGRADE SIDEWALK IN FRONT OF STATIONHOUSE TO IMPROVE CROSS SLOPE CONDITIONS AT DOOR.
2. INSTALL DOOR OPERATOR AT DOOR IN-LINE WITH EXISTING ACCESSIBLE FARE ARRAY (FARE ARRAY AND STATIONHOUSE INTERIOR NOT IN SCOPE).
3. REMOVE CONCRETE SIDEWALK AND 6" STEP AT PAID AREA BETWEEN STATIONHOUSE AND STAIR #1. INSTALL NEW SLAB TO ELIMINATE 6" STEP.
4. INSTALL NEW INBOUND AND OUTBOUND ELEVATORS TO PROVIDE ACCESSIBLE ROUTES TO AND FROM THE STATIONHOUSE AND PLATFORM. *RIGHT ANGLE CONFIGURATION OF ELEVATORS ALLOWS FOR MINIMAL IMPACT TO HISTORIC STATIONHOUSE AND MAXIMIZES CLEARANCES.*
5. REMOVE EXISTING STATIONHOUSE STAIRS FOR GRADE CHANGE AND NEW ELEVATORS.
   a. INSTALL NEW STATIONHOUSE STAIRS.
6. WIDEN INBOUND PLATFORM AND WIDEN (AND EXTEND, SEE #1 BELOW) OUTBOUND PLATFORM TO THE SOUTH TO PROVIDE CONTINUOUS WIDTH PLATFORM (11'-8" INBOUND AND 11'-10" OUTBOUND) FOR 60" ADA TURNING RADIUS BEYOND TACTILE EDGE.

THE FOLLOWING PROPOSED STATION IMPROVEMENT WILL PROVIDE THE NUMBER OF EXITS, EGRESS CAPACITY AND TRAVEL DISTANCES TO MEET CBC 2019 AND NFPA 130:

1. EXTEND (AND WIDEN, SEE #5 ABOVE) OUTBOUND PLATFORM TO THE SOUTH AND CLOSE OFF PORTION OF OUTBOUND PLATFORM TO THE NORTH TO ELIMINATE TRAVEL DISTANCE CONCERN.
2. INSTALL NEW STAIR #2 TO PROVIDE ADDITIONAL EXITS AND EGRESS CAPACITY REQUIRED BY CBC 2019, AS WELL AS ELIMINATE EXCESSIVE TRAVEL DISTANCES ON BOTH THE INBOUND AND OUTBOUND PLATFORMS.
   a. NEW STAIR #2 WILL BE USED AS TEMPORARY STATION ACCESS FROM TEMPORARY STATIONHOUSE DURING CLOSURE OF STATIONHOUSE FOR CONSTRUCTION OF THE NEW SIDEWALK, ELEVATORS, AND STAIR #1.

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JLK JOHNSON LASKY KINDELIN ARCHITECTS

CHICAGO TRANSIT AUTHORITY
ENGINEERING

SENSITIVE SECURITY INFORMATION

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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	M. KINDELIN
CHECKED BY	JW
DESIGNED BY	JW
DRAWN BY	JW, JC, RS, HN

MARK	DATE	DESCRIPTION
0	12/30/2024	ISSUE FOR BID

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VOLUME: 1 OF 1

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EXISTING EXITING CALCULATIONS - FOR INFORMATION ONLY

CALIFORNIA ELEVATED STATION **EXITING CALCULATIONS PER NFPA 130-2020**

OCCUPANT LOAD - OUTBOUND PLATFORM (WESTBOUND)					
	Outbound Train Load			**Detraining Occupant Load**	**Platform Occupant Load**
Full Train Load (Assume 8 car train at capacity)	100 occupants/car			800	
	Peak Load	**Headways**	**Service Disruption Factor**	**Entraining Occupant Load**	**804**
Peak 15 Min. Entraining Load per CTA data	32	8	1	4	

OCCUPANT LOAD - INBOUND PLATFORM (EASTBOUND)					
	Inbound Train Load			**Detraining Occupant Load**	**Platform Occupant Load**
Full Train Load (Assume 8 car train at capacity)	100 occupants/car			800	
	Peak Load	**Headways**	**Service Disruption Factor**	**Entraining Occupant Load**	**856**
Peak 15 Min. Entraining Load per CTA data	448	8	1	56	

EXIT CAPACITY - OUTBOUND PLATFORM STAIRS					
	Direction	**Quantity**	**Width (in)**	**Capacity (pim)**	**Total Capacity (ppm)**
Stairs to Station House	dn	1	66	1.41	93
Stairs to Safe Area	dn	1	0	1.41	0
				Platform Exit Capacity (PEC)	**93**

EXIT CAPACITY - INBOUND PLATFORM STAIRS					
	Direction	**Quantity**	**Width (in)**	**Capacity (pim)**	**Total Capacity (ppm)**
Stairs to Station House	dn	1	49	1.41	69
Stairs to Safe Area	dn	1	0	1.41	0
				Platform Exit Capacity (PEC)	**69**

EXIT CAPACITY - STATIONHOUSE					
Stationhouse Fare Barrier and Gates	**Direction**	**Quantity**	**Width (in)**	**Capacity (pim)**	**Total Capacity (ppm)**
Turnstiles	n/a	3	n/a	25	75
Accessible Fare Gate	n/a	1	36	60	60
Emergency Gate	n/a	2	36	60	120
				Fare Barrier Exit Capacity (FBEC)	**255**
Fare Barrier to Safe Area					
Double Leaf Doors	n/a	1	75	2.08	156
				Safe Area Exit Capacity (SAEC)	**156**

EXIT CAPACITY - AUX STAIR					
Fare Barrier to Safe Area					
Double Leaf Doors	n/a	2	72	2.08	300
				Safe Area Exit Capacity (SAEC)	**300**

WALKING TIME FOR LONGEST EXIT ROUTE					
OUTBOUND PLATFORM	**Symbol**	**Length (ft)**	**fpm**		**Walking Time (min)**
Travel Time on Platform	T1	150	124		1.21
Platform to Stationhouse (stair)	T2	75	48		1.56
Stationhouse to Safe Area (to outside)	T3	15	124		0.12
				Total Walking Time (T)	**2.89**
INBOUND PLATFORM	**Symbol**	**Length (ft)**	**fpm**		**Walking Time (min)**
Travel Time on Platform	T1	150	124		1.21
Platform to Stationhouse (stair)	T2	70	48		1.46
Stationhouse to Safe Area (to outside)	T3	15	124		0.12
				Total Walking Time (T)	**2.79**

TIMED EXIT CALCULATIONS - OUTBOUND PLATFORM					
	Symbol	**Platform Occupant Load**	**Platform Exit Capacity**		**Platform Exit Flow Time**
Platform Exit Flow Time	Wpo	804	93		**8.64**
					Flow Time > 4 minutes
		Platform Exit Flow Time	**Travel Time on Platform**	**Waiting Time on Platform**	
Waiting Time at Platform Exits		8.64	1.21	7.43	

TIMED EXIT CALCULATIONS - INBOUND PLATFORM					
	Symbol	**Platform Occupant Load**	**Platform Exit Capacity**		**Platform Exit Flow Time**
Platform Exit Flow Time	Wpi	856	69		**11.55**
					Flow Time > 4 minutes
		Platform Exit Flow Time	**Travel Time on Platform**	**Waiting Time on Platform**	
Waiting Time at Platform Exits		11.55	1.21	10.34	

TIMED EXIT CALCULATIONS - STAITIONHOUSE WAIT TIMES					
	Symbol	**Stationhouse Stair Occ. Load**	**Fare Barrier Exit Cap.**		**Fare Barrier Exit Flow Time**
Flow Time at Fare Barrier	W1	162	255		0.64
		Fare Barrier Exit Flow Time	**Platform Exit Flow Time**		**Waiting Time at Fare Barrier**
Waiting Time at Fare Barrier		0.64	11.55		0.00
	Symbol	**Fare Barrier Occ. Load**	**Stationhouse Exit Capacity**		**Stationhouse Exit Flow Time**
Flow Time at Stationhouse Exits	W2	162	156		1.04
		Stationhouse Exit Flow Time	**Fare Barrier Exit Flow Time**	**Platform Exit Flow Time**	**Waiting Time at Station Exits**
Waiting Time at Stationhouse Exits		1.04	0.64	11.55	0.00

LONGEST TOTAL EXIT TIME (PLATFORM TO SAFE AREA) CALCULATION					
OUTBOUND PLATFORM	**Total Walk Time (T)**	**Waiting Time on Platform**	**Waiting Time at Fare Barrier**	**Waiting Time at Station Exits**	**Total Exit Time**
Total Exit Time (Platform to Safe Area)	2.89	7.43	0.00		**10.32**
					Total Exit Time > 6 minutes
INBOUND PLATFORM	**Total Walk Time (T)**	**Waiting Time on Platform**	**Waiting Time at Fare Barrier**	**Waiting Time at Station Exits**	**Total Exit Time**
Total Exit Time (Platform to Safe Area)	2.79	10.34	0.00		**13.13**
					Total Exit Time > 6 minutes

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ALL STATIONS
ACCESSIBILITY PROGRAM

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NFPA-130 CALCULATIONS

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PROPOSED EXITING CALCULATIONS

CALIFORNIA ELEVATED STATION EXITING CALCULATIONS PER NFPA 130-2020

OCCUPANT LOAD - OUTBOUND PLATFORM (WESTBOUND)					
	Outbound Train Load			Detraining Occupant Load	Platform Occupant Load
Full Train Load (Assume 8 car train at capacity)	100 occupants/car			800	
	Peak Load	Headways	Service Disruption Factor	Entraining Occupant Load	804
Peak 15 Min. Entraining Load per CTA data	32	8	1	4	

OCCUPANT LOAD - INBOUND PLATFORM (EASTBOUND)					
	Inbound Train Load			Detraining Occupant Load	Platform Occupant Load
Full Train Load (Assume 8 car train at capacity)	100 occupants/car			800	
	Peak Load	Headways	Service Disruption Factor	Entraining Occupant Load	856
Peak 15 Min. Entraining Load per CTA data	448	8	1	56	

EXIT CAPACITY - OUTBOUND PLATFORM STAIRS					
	Direction	Quantity	Width (in)	Capacity (pim)	Total Capacity (ppm)
Stairs to Station House	dn	1	66	1.41	93
Stairs to Safe Area	dn	1	102	1.41	144
				Platform Exit Capacity (PEC)	237

EXIT CAPACITY - INBOUND PLATFORM STAIRS					
	Direction	Quantity	Width (in)	Capacity (pim)	Total Capacity (ppm)
Stairs to Station House	dn	1	49	1.41	69
Stairs to Safe Area	dn	1	102	1.41	144
				Platform Exit Capacity (PEC)	213

EXIT CAPACITY - STATIONHOUSE					
Stationhouse Fare Barrier and Gates	Direction	Quantity	Width (in)	Capacity (pim)	Total Capacity (ppm)
Turnstiles	n/a	3	n/a	25	75
Accessible Fare Gate	n/a	1	36	60	60
Emergency Gate	n/a	2	36	60	120
				Fare Barrier Exit Capacity (FBEC)	255
Fare Barrier to Safe Area					
Double Leaf Doors	n/a	2	60	2.08	250
				Safe Area Exit Capacity (SAEC)	250

EXIT CAPACITY - AUX STAIR					
Fare Barrier to Safe Area					
Double Leaf Doors	n/a	1	72	2.08	150
				Safe Area Exit Capacity (SAEC)	150

WALKING TIME FOR LONGEST EXIT ROUTE					
OUTBOUND PLATFORM	Symbol	Length (ft)	fpm		Walking Time (min)
Travel Time on Platform	T1	199	124		1.60
Platform to Stationhouse (stair)	T2	75	48		1.56
Stationhouse to Safe Area (to outside)	T3	15	124		0.12
				Total Walking Time (T)	3.29
INBOUND PLATFORM	Symbol	Length (ft)	fpm		Walking Time (min)
Travel Time on Platform	T1	150	124		1.21
Platform to Stationhouse (stair)	T2	70	48		1.46
Stationhouse to Safe Area (to outside)	T3	15	124		0.12
				Total Walking Time (T)	2.79

TIMED EXIT CALCULATIONS - OUTBOUND PLATFORM					
	Symbol	Platform Occupant Load	Platform Exit Capacity		Platform Exit Flow Time
Platform Exit Flow Time	Wpo	804	237		3.39
					Exit Flow Time < 4 minutes
		Platform Exit Flow Time	Travel Time on Platform	Waiting Time on Platform	
Waiting Time at Platform Exits		3.39	1.60	1.79	

TIMED EXIT CALCULATIONS - INBOUND PLATFORM					
	Symbol	Platform Occupant Load	Platform Exit Capacity		Platform Exit Flow Time
Platform Exit Flow Time	Wpi	856	213		4.02
					Flow Time > 4 minutes
		Platform Exit Flow Time	Travel Time on Platform	Waiting Time on Platform	
Waiting Time at Platform Exits		4.02	1.21	2.81	

TIMED EXIT CALCULATIONS - STAITIONHOUSE WAIT TIMES					
	Symbol	Stationhouse Stair Occ. Load	Fare Barrier Exit Cap.		Fare Barrier Exit Flow Time
Flow Time at Fare Barrier	W1	162	255		0.64
		Fare Barrier Exit Flow Time	Platform Exit Flow Time		Waiting Time at Fare Barrier
Waiting Time at Fare Barrier		0.64	4.02		0.00
	Symbol	Fare Barrier Occ. Load	Stationhouse Exit Capacity		Stationhouse Exit Flow Time
Flow Time at Stationhouse Exits	W2	162	250		0.65
		Stationhouse Exit Flow Time	Fare Barrier Exit Flow Time	Platform Exit Flow Time	Waiting Time at Station Exits
Waiting Time at Stationhouse Exits		0.65	0.64	4.02	0.00

TIMED EXIT CALCULATIONS -AUX STAIR WAIT TIMES					
	Symbol	Aux Exit Occ. Load	Fare Barrier Exit Cap.		Fare Barrier Exit Flow Time
Flow Time at Aux Exits	W3o	144	150		0.96
		Aux Exit Flow Time	Platform Exit Flow Time		Waiting Time at Station Exits
Waiting Time at Aux Exits		0.96	3.39		0.00
	Symbol	Aux Exit Occ. Load	Fare Barrier Exit Cap.		Fare Barrier Exit Flow Time
Flow Time at Aux Exits	W3i	144	150		0.96
		Aux Stair Flow Time	Platform Exit Flow Time		Waiting Time at Station Exits
Waiting Time at Aux Exits		0.96	4.02		0.00

LONGEST TOTAL EXIT TIME (PLATFORM TO SAFE AREA) CALCULATION					
OUTBOUND PLATFORM	Total Walk Time (T)	Waiting Time on Platform	Waiting Time at Fare Barrier	Waiting Time at Station Exits	Total Exit Time
Total Exit Time (Platform to Safe Area)	3.29	1.79	0.00	0.00	5.08
					Total Exit Time < 6 minutes
INBOUND PLATFORM	Total Walk Time (T)	Waiting Time on Platform	Waiting Time at Fare Barrier	Waiting Time at Station Exits	Total Exit Time
Total Exit Time (Platform to Safe Area)	2.79	2.81	0.00	0.00	5.60
					Total Exit Time < 6 minutes

TEMPORARY STATION EXITING CALCULATIONS

CALIFORNIA ELEVATED STATION EXITING CALCULATIONS PER NFPA 130-2020

OCCUPANT LOAD - OUTBOUND PLATFORM (WESTBOUND)					
	Outbound Train Load			Detraining Occupant Load	Platform Occupant Load
Full Train Load (Assume 8 car train at capacity)	100 occupants/car			800	
	Peak Load	Headways	Service Disruption Factor	Entraining Occupant Load	804
Peak 15 Min. Entraining Load per CTA data	32	8	1	4	

OCCUPANT LOAD - INBOUND PLATFORM (EASTBOUND)					
	Inbound Train Load			Detraining Occupant Load	Platform Occupant Load
Full Train Load (Assume 8 car train at capacity)	100 occupants/car			800	
	Peak Load	Headways	Service Disruption Factor	Entraining Occupant Load	856
Peak 15 Min. Entraining Load per CTA data	448	8	1	56	

EXIT CAPACITY - OUTBOUND PLATFORM STAIRS					
	Direction	Quantity	Width (in)	Capacity (pim)	Total Capacity (ppm)
Stairs to Station House	dn	1	0	1.41	0
Stairs to Safe Area	dn	1	102	1.41	144
				Platform Exit Capacity (PEC)	144

EXIT CAPACITY - INBOUND PLATFORM STAIRS					
	Direction	Quantity	Width (in)	Capacity (pim)	Total Capacity (ppm)
Stairs to Station House	dn	1	0	1.41	0
Stairs to Safe Area	dn	1	102	1.41	144
				Platform Exit Capacity (PEC)	144

EXIT CAPACITY - TEMPORARY STATIONHOUSE					
Stationhouse Fare Barrier and Gates	Direction	Quantity	Width (in)	Capacity (pim)	Total Capacity (ppm)
Turnstiles	n/a	3	n/a	25	75
Accessible Fare Gate	n/a	1	36	60	60
Emergency Gate	n/a	1	36	60	60
				Fare Barrier Exit Capacity (FBEC)	195
Fare Barrier to Safe Area					
Double Leaf Doors	n/a	2	72	2.08	300
				Safe Area Exit Capacity (SAEC)	300

WALKING TIME FOR LONGEST EXIT ROUTE					
OUTBOUND PLATFORM	Symbol	Length (ft)	fpm		Walking Time (min)
Travel Time on Platform	T1	199	124		1.60
Platform to Stationhouse (stair)	T2	75	48		1.56
Stationhouse to Safe Area (to outside)	T3	15	124		0.12
				Total Walking Time (T)	3.29
INBOUND PLATFORM	Symbol	Length (ft)	fpm		Walking Time (min)
Travel Time on Platform	T1	150	124		1.21
Platform to Stationhouse (stair)	T2	70	48		1.46
Stationhouse to Safe Area (to outside)	T3	15	124		0.12
				Total Walking Time (T)	2.79

TIMED EXIT CALCULATIONS - OUTBOUND PLATFORM					
	Symbol	Platform Occupant Load	Platform Exit Capacity		Platform Exit Flow Time
Platform Exit Flow Time	Wpo	804	144		5.59
					Flow Time > 4 minutes
		Platform Exit Flow Time	Travel Time on Platform	Waiting Time on Platform	
Waiting Time at Platform Exits		5.59	1.60	3.99	

TIMED EXIT CALCULATIONS - INBOUND PLATFORM					
	Symbol	Platform Occupant Load	Platform Exit Capacity		Platform Exit Flow Time
Platform Exit Flow Time	Wpi	856	144		5.11
					Flow Time > 4 minutes
		Platform Exit Flow Time	Travel Time on Platform	Waiting Time on Platform	
Waiting Time at Platform Exits		5.11	1.21	3.90	

TIMED EXIT CALCULATIONS - STAITIONHOUSE WAIT TIMES					
	Symbol	Stationhouse Stair Occ. Load	Fare Barrier Exit Cap.		Fare Barrier Exit Flow Time
Flow Time at Fare Barrier	W1	0	195		0.00
		Fare Barrier Exit Flow Time	Platform Exit Flow Time		Waiting Time at Fare Barrier
Waiting Time at Fare Barrier		0.00	5.11		0.00
	Symbol	Fare Barrier Occ. Load	Stationhouse Exit Capacity		Stationhouse Exit Flow Time
Flow Time at Stationhouse Exits	W2	0	300		0.00
		Stationhouse Exit Flow Time	Fare Barrier Exit Flow Time	Platform Exit Flow Time	Waiting Time at Station Exits
Waiting Time at Stationhouse Exits		0.00	0.00	5.11	0.00

LONGEST TOTAL EXIT TIME (PLATFORM TO SAFE AREA) CALCULATION					
OUTBOUND PLATFORM	Total Walk Time (T)	Waiting Time on Platform	Waiting Time at Fare Barrier	Waiting Time at Station Exits	Total Exit Time
Total Exit Time (Platform to Safe Area)	3.29	3.99	0.00	0.00	7.27
					Total Exit Time > 6 minutes
INBOUND PLATFORM	Total Walk Time (T)	Waiting Time on Platform	Waiting Time at Fare Barrier	Waiting Time at Station Exits	Total Exit Time
Total Exit Time (Platform to Safe Area)	2.79	3.90	0.00	0.00	6.69
					Total Exit Time > 6 minutes

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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	M. KINDELIN
CHECKED BY	JW
DESIGNED BY	JW
DRAWN BY	JW, JC, RS, HN

MARK	DATE	DESCRIPTION
0	12/30/2024	ISSUE FOR BID

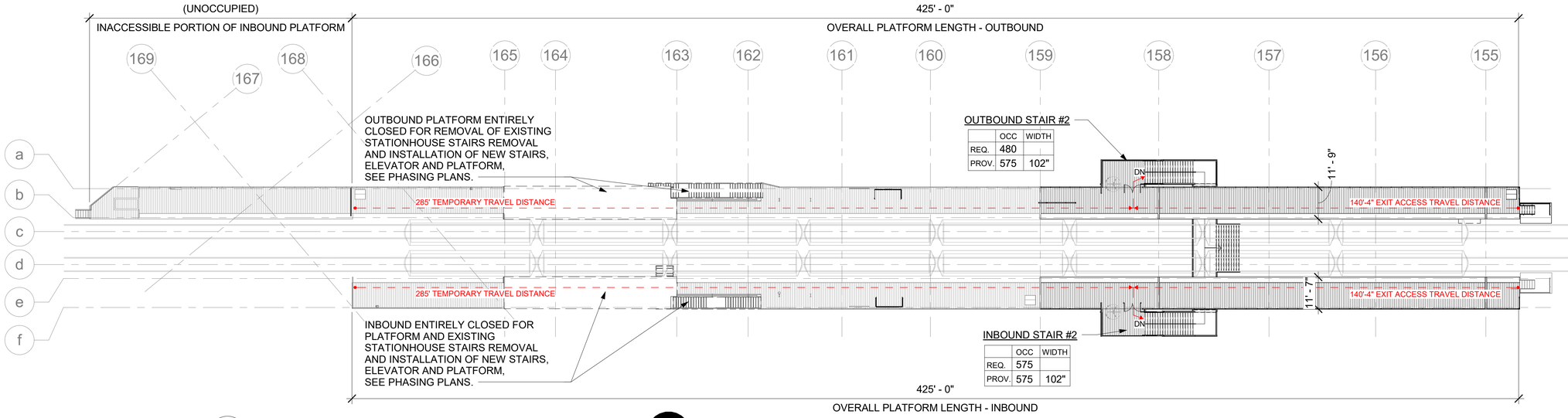
NFPA-130 CALCULATIONS

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VOLUME: 1 OF 1

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2 G-008 TEMP STATION PLATFORM LEVEL LIFE SAFETY PLAN
SCALE: 3/64" = 1'-0"

0 8' 16' 32' 64'
SCALE: 3/64" = 1'-0"

NORTH

1 G-008 TEMP STATION STREET LEVEL LIFE SAFETY PLAN TEMP
SCALE: 3/64" = 1'-0"

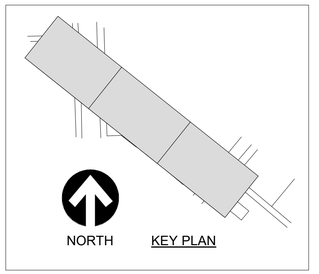
0 8' 16' 32' 64'
SCALE: 3/64" = 1'-0"

NORTH

OUTBOUND PLATFORM						
EXIT SUMMARY	DOOR CLEAR WIDTH	DOOR EXIT CAPACITY (PPM)	STAIR CLEAR WIDTH	STAIR EXIT CAPACITY (PPM)	MAX OCCUPANT LOAD (<4 MIN)	ACTUAL OCC LOAD
STATIONHOUSE STAIR #1	NA	NA	0	0	0	0
STAIR #2	72	300	102	144	575	804
				0	575	804

INBOUND PLATFORM						
EXIT SUMMARY	DOOR CLEAR WIDTH	DOOR EXIT CAPACITY (PPM)	STAIR CLEAR WIDTH	PLATFORM EXIT CAPACITY (PPM)	MAX OCCUPANT LOAD (<4 MIN)	ACTUAL OCC LOAD
STATIONHOUSE STAIR #1	NA	NA	0	0	0	0
STAIR #2	72	300	102	144	575	856
				0	575	856

TEMP STATIONHOUSE					
EXIT SUMMARY	DOOR/FARE ARRAY EXIT CAPACITY (PPM)	MAX OCCUPANT LOAD TO SAFE AREA (<6 MIN)	ACTUAL OCCUPANT LOAD	MAX TRAVEL DISTANCE	MAX TOTAL TRAVEL TIME TO SAFE AREA (<6 MIN)
	195	1170	1660	260	7.27



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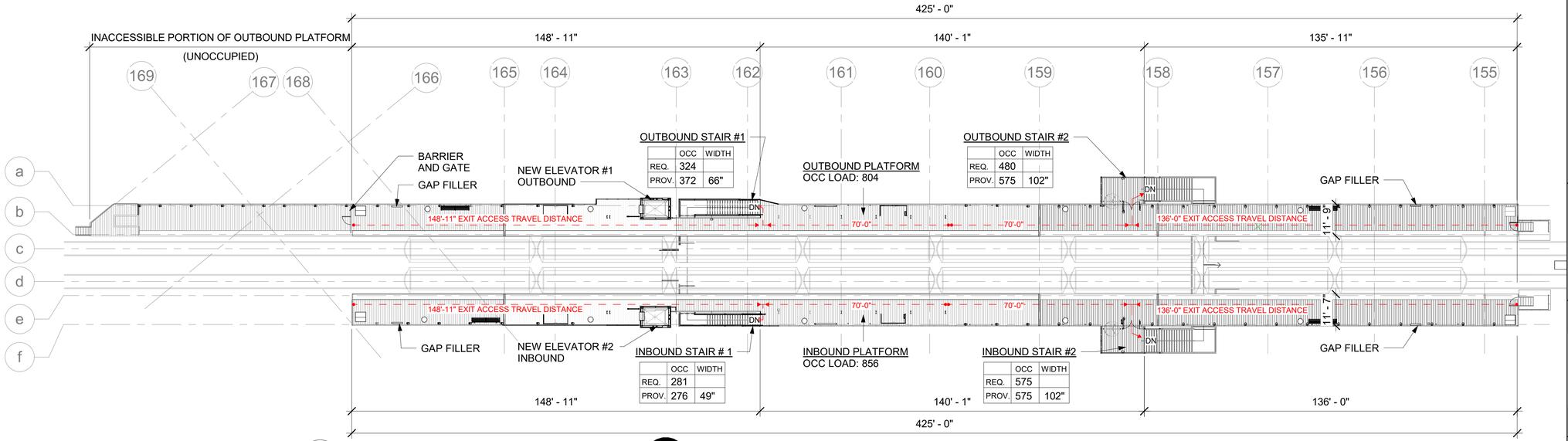
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IN CHARGE	I. COLLETTI
APPROVED BY	M. KINDELIN
CHECKED BY	JW
DESIGNED BY	JW
DRAWN BY	JW, JC, RS, HN

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TRAVEL DISTANCES TEMPORARY STATION

LSCAL G-008
VOLUME: 1 OF 1

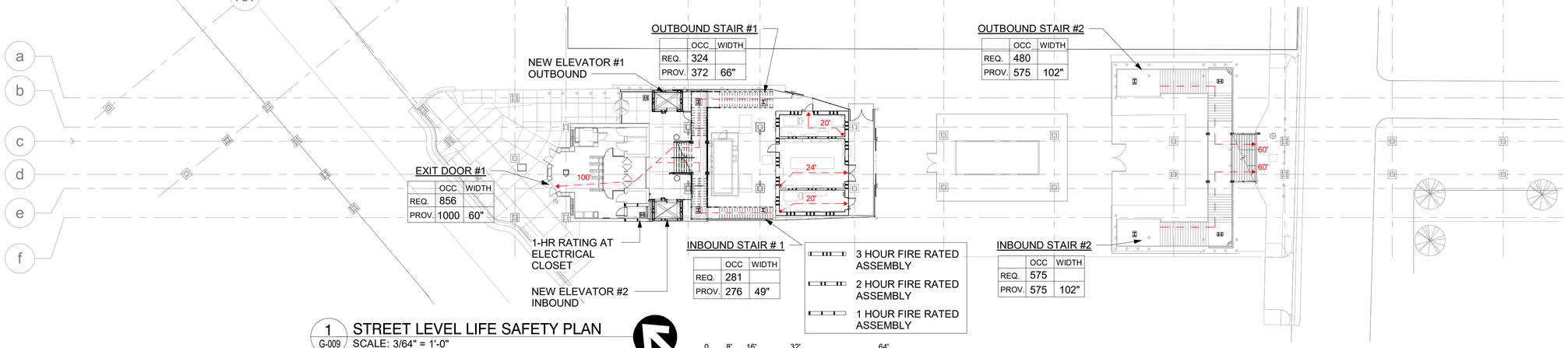
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2 G-009 PLATFORM LEVEL LIFE SAFETY PLAN
SCALE: 3/64" = 1'-0"

0 8' 16' 32' 64'
SCALE: 3/64" = 1'-0"

NORTH



1 G-009 STREET LEVEL LIFE SAFETY PLAN
SCALE: 3/64" = 1'-0"

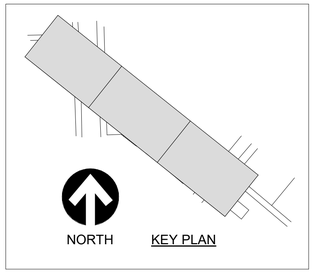
NORTH

0 8' 16' 32' 64'
SCALE: 3/64" = 1'-0"

OUTBOUND PLATFORM						
EXIT SUMMARY	DOOR CLEAR WIDTH	DOOR EXIT CAPACITY (PPM)	STAIR CLEAR WIDTH	STAIR EXIT CAPACITY (PPM)	MAX OCCUPANT LOAD (<4 MIN)	ACTUAL OCC LOAD
STATIONHOUSE STAIR #1	NA	NA	66	93	372	324
STAIR #2	72	150	102	144	575	480
				237	948	804

INBOUND PLATFORM						
EXIT SUMMARY	DOOR CLEAR WIDTH	DOOR EXIT CAPACITY (PPM)	STAIR CLEAR WIDTH	PLATFORM EXIT CAPACITY (PPM)	MAX OCCUPANT LOAD (<4 MIN)	ACTUAL OCC LOAD
STATIONHOUSE STAIR #1	NA	NA	49	69	276	281
STAIR #2	72	150	102	144	575	575
				213	852	856

STATIONHOUSE					
EXIT SUMMARY	DOOR/FARE ARRAY EXIT CAPACITY (PPM)	MAX OCCUPANT LOAD TO SAFE AREA (<6 MIN)	ACTUAL OCCUPANT LOAD	MAX TRAVEL DISTANCE	MAX TOTAL TRAVEL TIME TO SAFE AREA (<6 MIN)
	250	1500	649	235	5.60



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LOGAN SQUARE LINE - CALIFORNIA STATION

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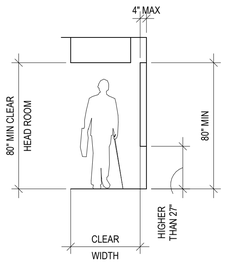
LIFE SAFETY PLAN

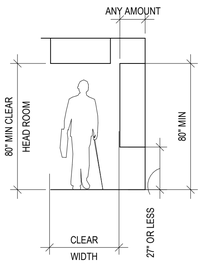
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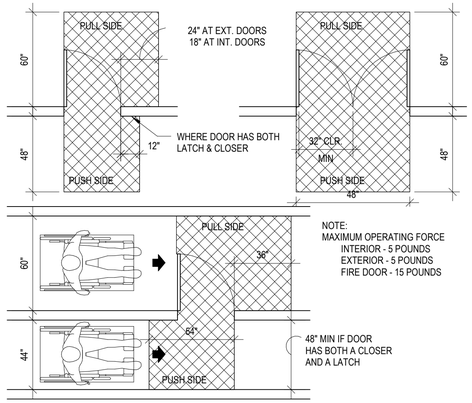
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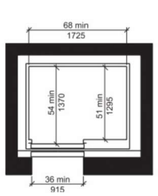
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NOTE:
PROTRUDING OBJECTS MAY NOT REDUCE THE REQUIRED CLEAR WIDTH OF AN ACCESSIBLE ROUTE OR MANUVERING SPACE

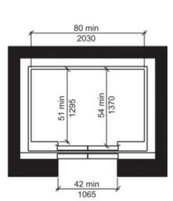




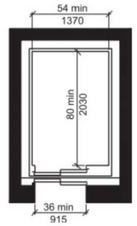




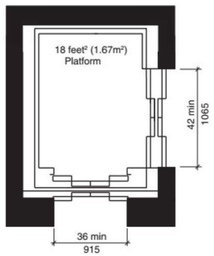
INSIDE DIMENSIONS OF ELEVATOR CARS - CENTERED DOOR LOCATION



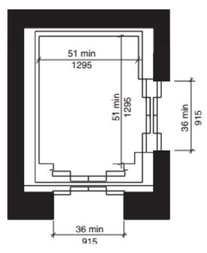
INSIDE DIMENSIONS OF ELEVATOR CARS - OFF-CENTERED DOOR LOCATION



INSIDE DIMENSIONS OF ELEVATOR CARS - ANY DOOR LOCATION

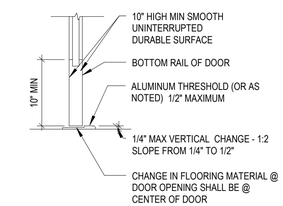


DOOR LOCATRION FOR LIMITED USE/LIMITED APPLICATION (LULA) ELEVATORS - CAR WITH DOORS ON ADJACENT SIDES

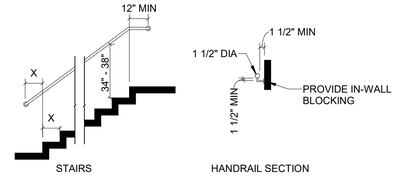


DOOR LOCATRION FOR LIMITED USE/LIMITED APPLICATION (LULA) ELEVATORS - CAR WITH DOORS ON ADJACENT SIDES - EXCEPTION

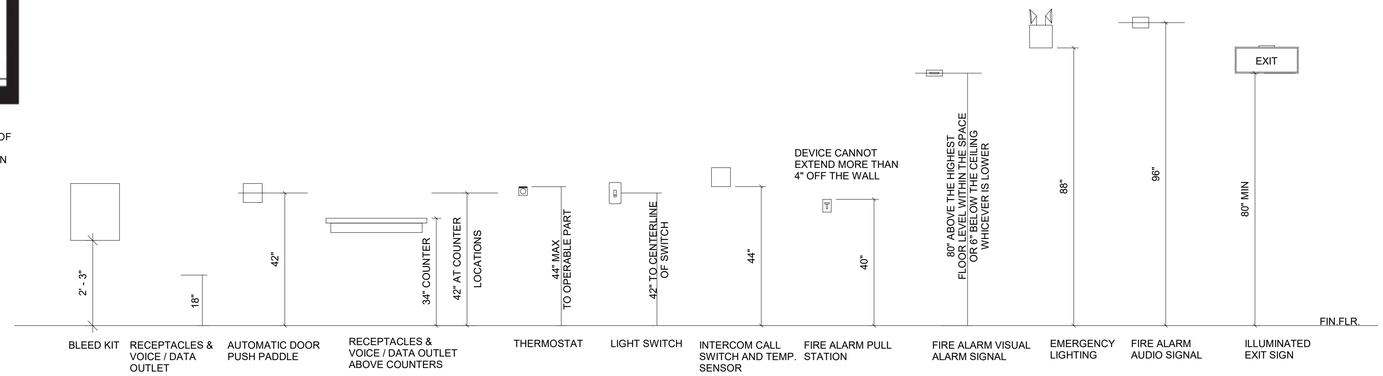
ELEVATOR CAB DIAGRAM



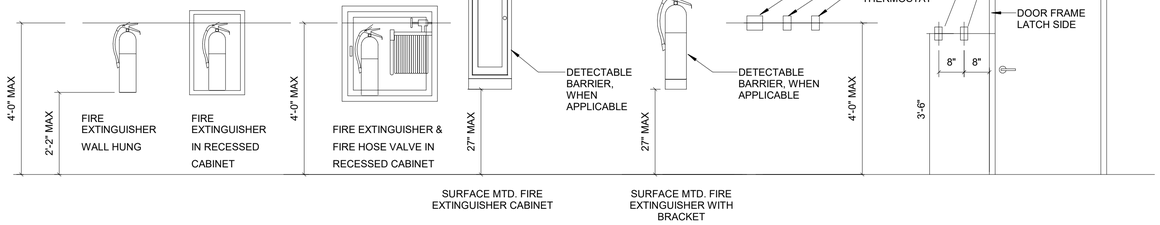
THRESHOLD



HANDRAIL EXTENSIONS AND CLEARANCES



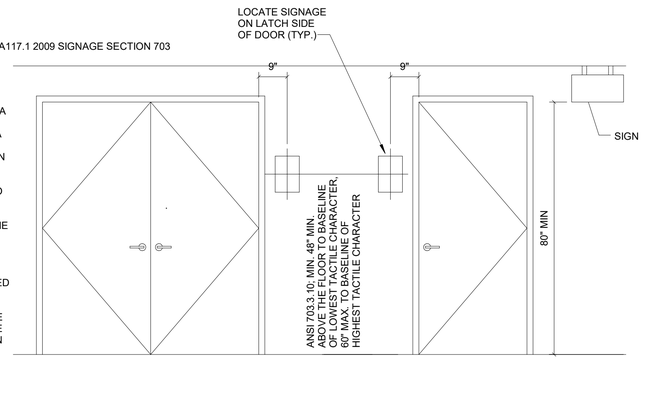
POWER/DATA AND FIRE ALARM MOUNTING DIAGRAM



POWER/DATA AND FEC MOUNTING DIAGRAM

ALL SIGNAGE SHALL COMPLY WITH ANSI A117.1 2009 SIGNAGE SECTION 703

ANSI A117.1 2009 703.3.11:
WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE ALONG SIDE THE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAVES, THE SIGN SHALL BE TO THE RIGHT OF THE RIGHT-HAND DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE OF A SINGLE DOOR, OR TO THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE ON THE NEAREST ADJACENT WALL. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR AREA 18"x18" MIN., CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45-DEGREE OPEN POSITION.



SIGNAGE MOUNTING DIAGRAM

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LOGAN SQUARE LINE - CALIFORNIA STATION

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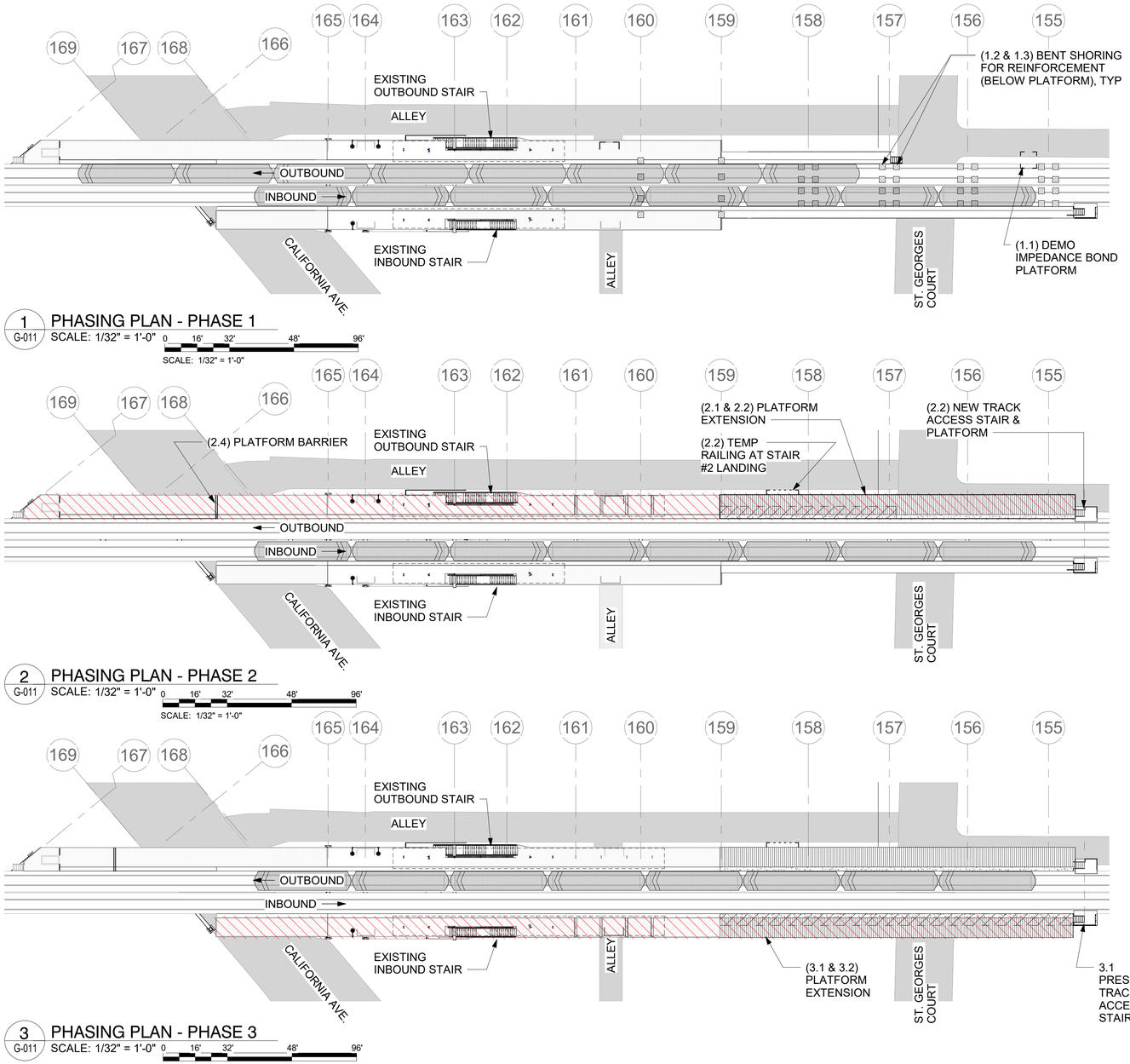
CLEARANCE DIAGRAMS

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General Phasing Notes:

- The phasing presented is only conceptual and does not relieve the contractor of the requirement to submit steel erection plans prepared and sealed by a licensed structural engineer in Illinois and overall phasing plans.
- Prior to any platform framing work, affected Track Bent Columns must be reinforced.
- Prior to work commencing, utilities to be relocated by Others. Impedance bond to be relocated by CTA forces.
- Salvage all items per AD drawings. Refer to drawing set for scope and details.
- Plans are at platform level unless noted otherwise.
- Refer to specs for the maximum allowable durations for platform closures and back-riding.

Phase 1:
Structural shoring

Stationhouse open. Outbound platform open. Inbound platform open.

1.1 Demolish impedance bond platform.

1.2 Install temporary shoring for track bent structure modifications under flaggers. Reinforce track bent structure between bents 155 and 160. See ST & SX drawings for additional details.

1.3 Remove temporary shoring between bents 155 and160.

Phase 2:
Outbound platform and platform canopy construction

Stationhouse open. Outbound platform closed. Inbound platform open.
CTA to commence outbound ride-by service to adjacent stations.

2.1 Demolish outbound platform and corresponding framing between bents 157 and 159. Salvage all items per AD drawings.

2.2 Erect new outbound platform and associated framing, decking, railings, lighting, track access stair and platform, etc. between bents 156 - 159. Temporary railing at future Stair #2 landing location.

2.3 Erect new outbound platform canopy and canopy extension framing, decking, lighting etc. between bents 160 and 163.

2.4 Install new permanent barrier on outbound platform between bents 167 and 169.

Phase 3:
Inbound platform and platform canopy construction

Stationhouse open. Outbound platform open. Inbound platform closed.
CTA to commence inbound ride-by service to adjacent stations.

3.1 Demolish inbound platform between bents 155 and 159. Preserve track access stair.

3.2 Erect new inbound platform and associated framing, decking, railings, lighting etc. between bents 155 and 159. Temporary barrier at Stair no. 2 landing location.

3.3 Erect new inbound platform canopy and canopy extension framing, decking, lighting etc. between bents 160 and 163.

- PLATFORM / STAIR / STATIONHOUSE CLOSED
- BENT REINFORCEMENT SHORING UNDER PLATFORM
- NEW PLATFORM
- DEMOLISH PLATFORM OR STAIR
- PLATFORM CANOPY OVERHEAD
- TEMPORARY STATIONHOUSE
- ROADWAY/ALLEY
- ADJACENT STRUCTURE
- PROPERTY LINE

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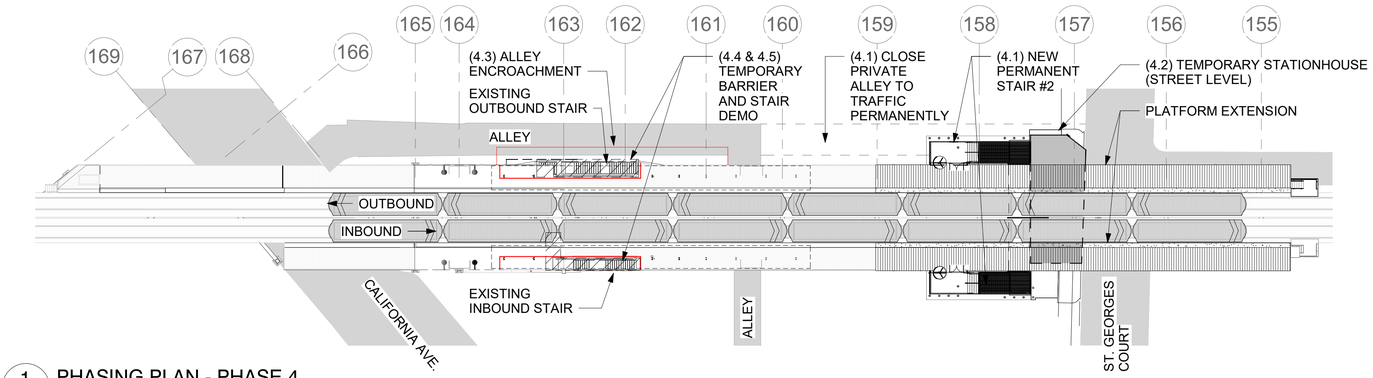
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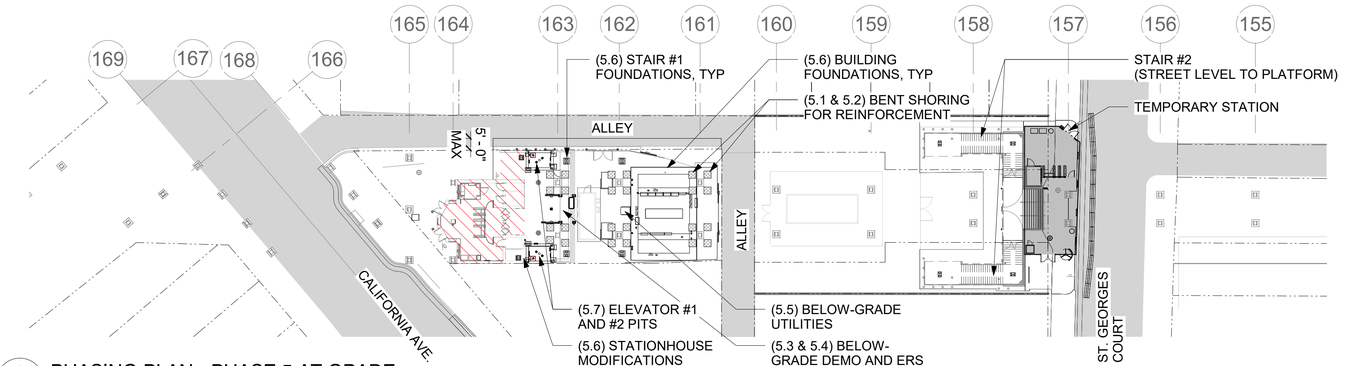
SUGGESTED PHASING PLANS 1-3

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VOLUME: 1 OF 1

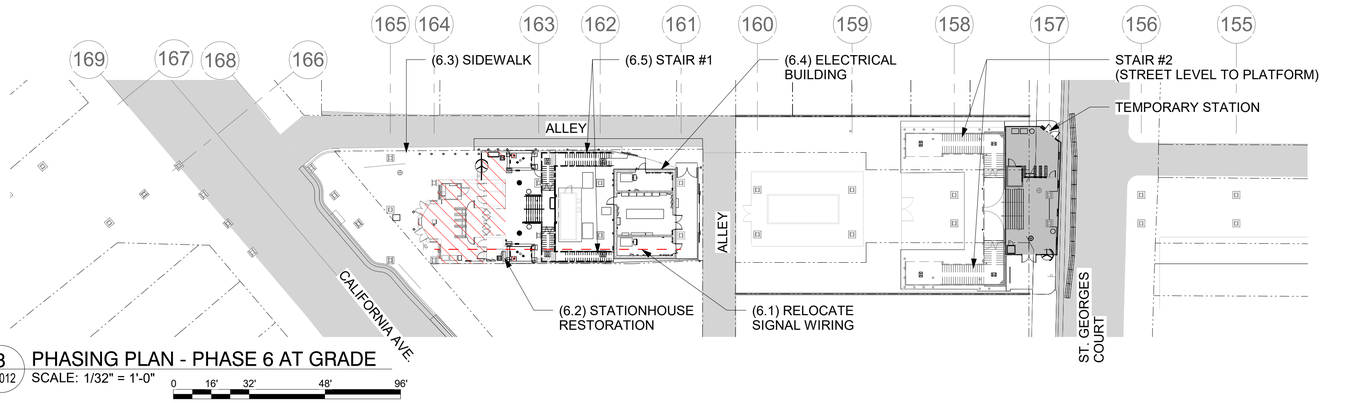
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1 G-012 PHASING PLAN - PHASE 4
SCALE: 1/32" = 1'-0"
0 16' 32' 48' 96'
SCALE: 1/32" = 1'-0"



2 G-012 PHASING PLAN - PHASE 5 AT GRADE
SCALE: 1/32" = 1'-0"
0 16' 32' 48' 96'
SCALE: 1/32" = 1'-0"



3 G-012 PHASING PLAN - PHASE 6 AT GRADE
SCALE: 1/32" = 1'-0"
0 16' 32' 48' 96'
SCALE: 1/32" = 1'-0"

Phase 4:
Construct permanent Stair #2 and temporary stationhouse

Stationhouse open. Outbound platform open. Inbound platform open.

4.1 Erect permanent Stair #2. Close private alley to traffic permanently. Remove temporary railings at platform level by Stair #2 once temporary station is open. Do not install hardware on exit gates at platform level, and fasten gates in open position temporarily.

4.2 Erect temporary stationhouse at grade along St. Georges Court including temporary power, temporary barriers, etc.

4.3 Erect temporary barrier at alley, 5'-0" maximum encroachment into alley.

4.4 Erect temporary barriers at platform level around inbound and outbound Stair #1 openings.

4.5 Demolish existing stationhouse stairs and existing at-grade between bents 160 and 163.

Phase 5:
Temporary shoring and below-grade construction at stationhouse

Temporary station open. Stationhouse closed. Outbound platform open. Inbound platform open.

5.1 Install temporary shoring for track bent structure modifications under flaggers. Reinforce track bent structure between bents 161 and 163. See ST & SX drawings for additional details.

5.2 Remove temporary shoring between bents 161 and 163.

5.3 Demolish and remove remaining stationhouse stair foundations, existing drainage, and existing utilities.

5.4 Install required Earth Retention System and any adjacent underpinning that may be necessary at stationhouse and adjacent property.

5.5 Install below-grade utilities (drainage, hydraulic, and electrical lines, etc).

5.6 Perform stationhouse modifications/partial removal of rear wall and roof as required to accommodate new micropiles and inbound platform column inside electrical closet.

5.7 Construct new pits for Elevators #1 and #2; install foundations for Stair #1, platform columns, and new electrical building.

Phase 6:
At-grade and stationhouse construction, Construct Stair No. 1

Temporary station open. Stationhouse closed. Outbound platform open. Inbound platform open.

6.1 Relocate signal wiring between bents 161 and 164.

6.2 Restore stationhouse rear wall/roof around new platform column at electrical closet.

6.3 At-grade civil work.

6.4 Above-grade construction of electrical building.

6.5 Above-grade construction of Stair #1.

- PLATFORM / STAIR / STATIONHOUSE CLOSED
- BENT REINFORCEMENT SHORING UNDER PLATFORM
- NEW PLATFORM
- DEMOLISH PLATFORM OR STAIR
- PLATFORM CANOPY OVERHEAD
- TEMPORARY STATIONHOUSE
- ROADWAY/ALLEY
- ADJACENT STRUCTURE
- PROPERTY LINE

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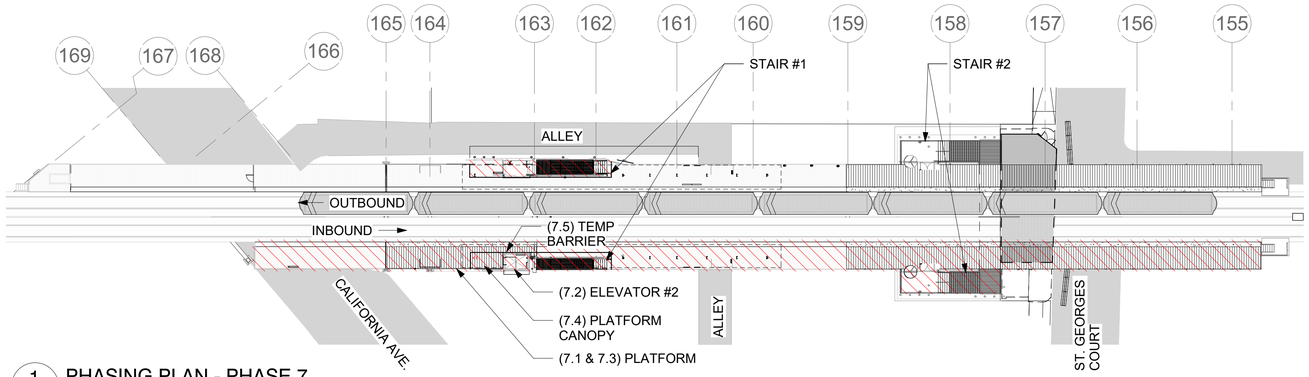
PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	M. KINDELIN
CHECKED BY	JW
DESIGNED BY	JW
DRAWN BY	JW, JC, RS, HN

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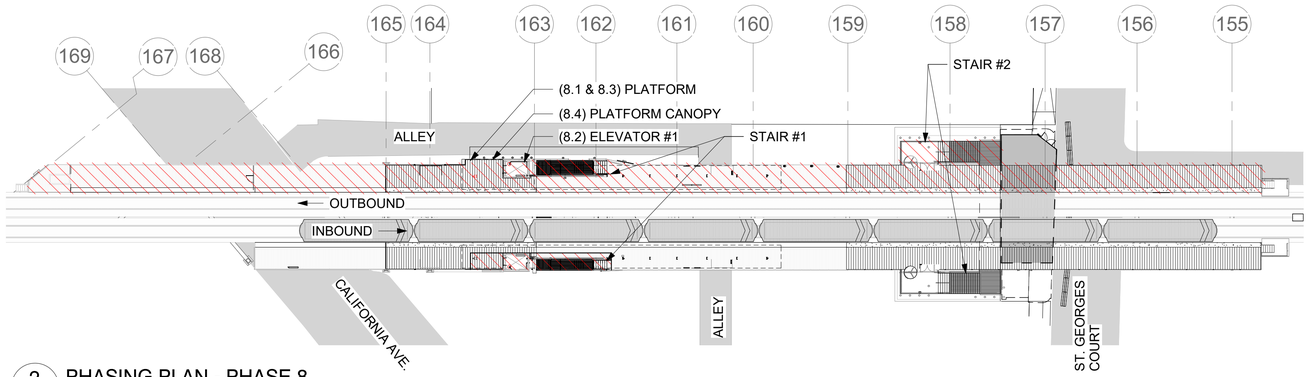
SUGGESTED PHASING PLANS 4-6

LSCAL | G-012
VOLUME: 1 OF 1

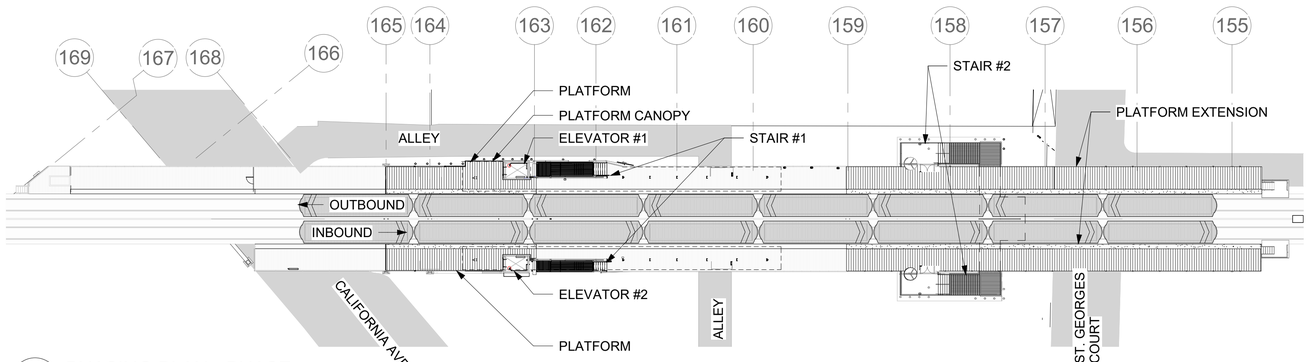
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1 G-013 PHASING PLAN - PHASE 7
SCALE: 1/32" = 1'-0"
0 16' 32' 48' 96'
SCALE: 1/32" = 1'-0"



2 G-013 PHASING PLAN - PHASE 8
SCALE: 1/32" = 1'-0"
0 16' 32' 48' 96'
SCALE: 1/32" = 1'-0"



3 G-013 PHASING PLAN - PHASE 9
SCALE: 1/32" = 1'-0"
0 16' 32' 48' 96'
SCALE: 1/32" = 1'-0"

Phase 7:
Inbound platform and Elevator #2 construction

Temporary station open. Stationhouse closed. Outbound platform open. Inbound platform closed. CTA to commence inbound ride-by service to adjacent stations.

7.1 Demolish inbound platform between bents 163 and 165 and inbound platform canopy between bents 163 and 164.

7.2 Erect inbound platform Elevator #2 tower and associated elevator machine work.

7.3 Erect inbound platform and decking between bents 163 and 165.

7.4 Erect inbound platform canopy and associated framing between bents 163 and 164.

7.5 Erect temporary barrier at platform level around inbound Stair #1 and elevator.

Phase 8:
Outbound platform and Elevator #1 construction

Temporary station open. Stationhouse closed. Outbound platform closed. Inbound platform open. CTA to commence outbound ride-by service to adjacent stations.

8.1 Demolish outbound platform between bents 163 and 165 and outbound platform canopy between bents 163 and 164.

8.2 Erect outbound platform Elevator #1 tower and associated elevator machine work.

8.3 Erect outbound platform and decking between bents 163 and 165.

8.4 Erect outbound platform canopy and associated framing between bents 163 and 164.

Phase 9:
Temporary stationhouse demolished, construction complete

Temporary station demolished. Stationhouse open. Outbound platform open. Inbound platform open.

9.1 Demolish temporary stationhouse at St. Georges Court. Stair #2 to remain in place.

9.2 Install final hardware on platform level exit gates to Stair #2 and enable exit-only function.

- PLATFORM / STAIR / STATIONHOUSE CLOSED
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- NEW PLATFORM
- DEMOLISH PLATFORM OR STAIR
- PLATFORM CANOPY OVERHEAD
- TEMPORARY STATIONHOUSE
- ROADWAY/ALLEY
- ADJACENT STRUCTURE
- PROPERTY LINE

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CHECKED BY	JW
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DRAWN BY	JW, JC, RS, HN

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SUGGESTED PHASING PLANS 7-9

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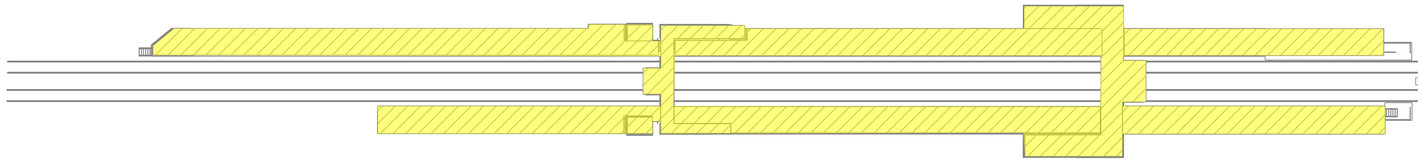
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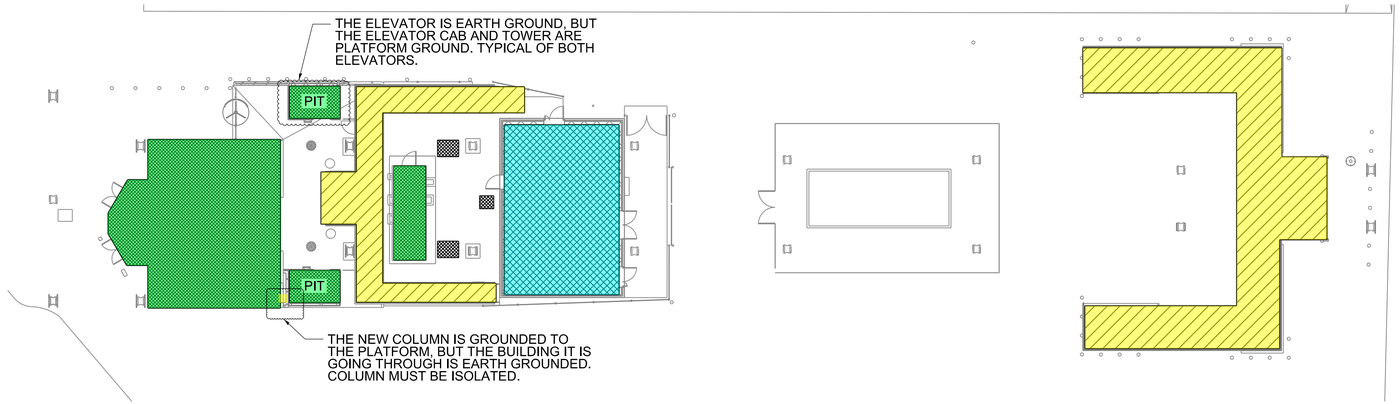
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BUILDING STRUCTURE IS EARTH GROUNDED AND ELECTRICAL EQUIPMENT IS AT EARTH GROUND.

BUILDING STRUCTURE IS PLATFORM GROUNDED AND ELECTRICAL EQUIPMENT IS AT PLATFORM GROUND.



1 STATION - GROUNDING PLAN
SCALE: 1/32" = 1'-0"



2 STATION - GROUNDING PLAN
SCALE: 1/16" = 1'-0"

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PLATFORM AND STATION GROUNDING PLANS - 1

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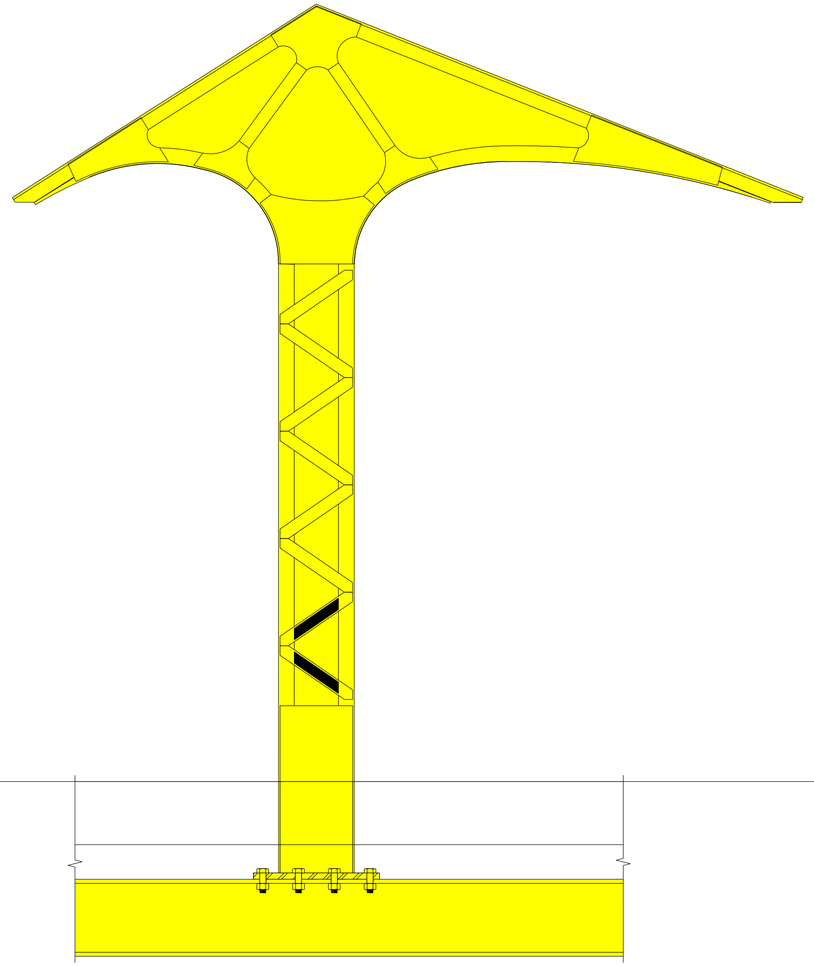
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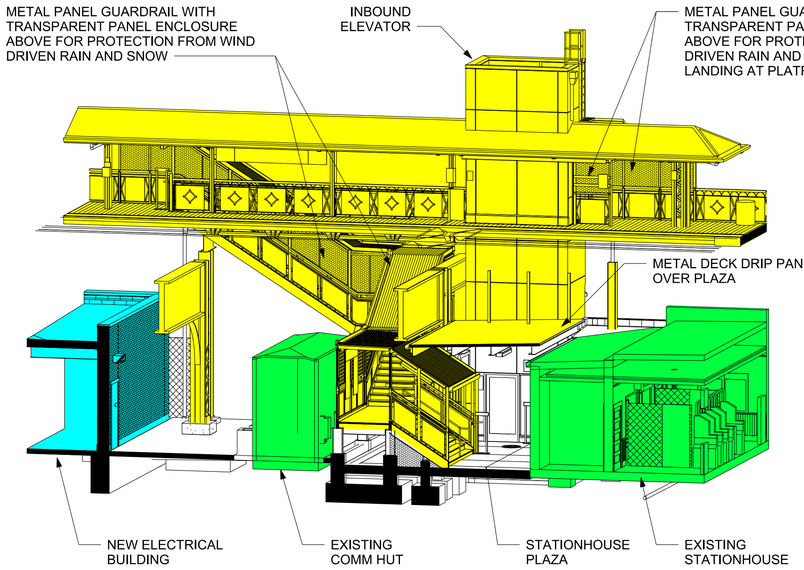
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BUILDING STRUCTURE IS PLATFORM GROUNDED AND ELECTRICAL EQUIPMENT IS AT PLATFORM GROUND.



1 CANOPY COLUMN DETAIL
SCALE: 1" = 1'-0"



2 3D GROUNDING ELEVATION DRAWING
SCALE:

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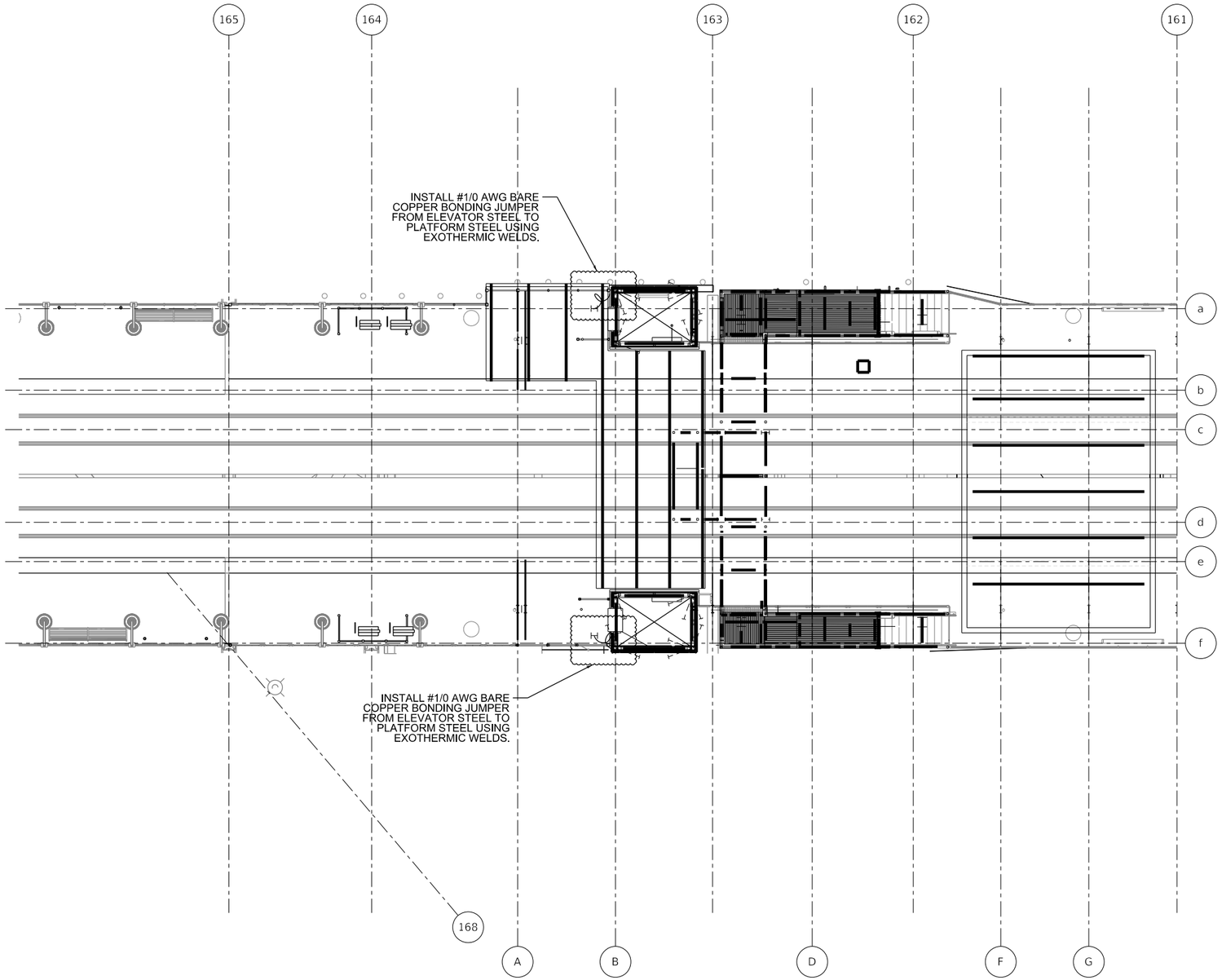
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PLATFORM AND STATION GROUNDING PLANS - 2

LSCAL G-015

VOLUME: X OF X



1 PLATFORM - AREA B
SCALE: 1/8" = 1'-0"

0 4' 8' 16'
SCALE: 1/8"=1'-0"

NORTH

...\000_General\04_Grounding\G-016

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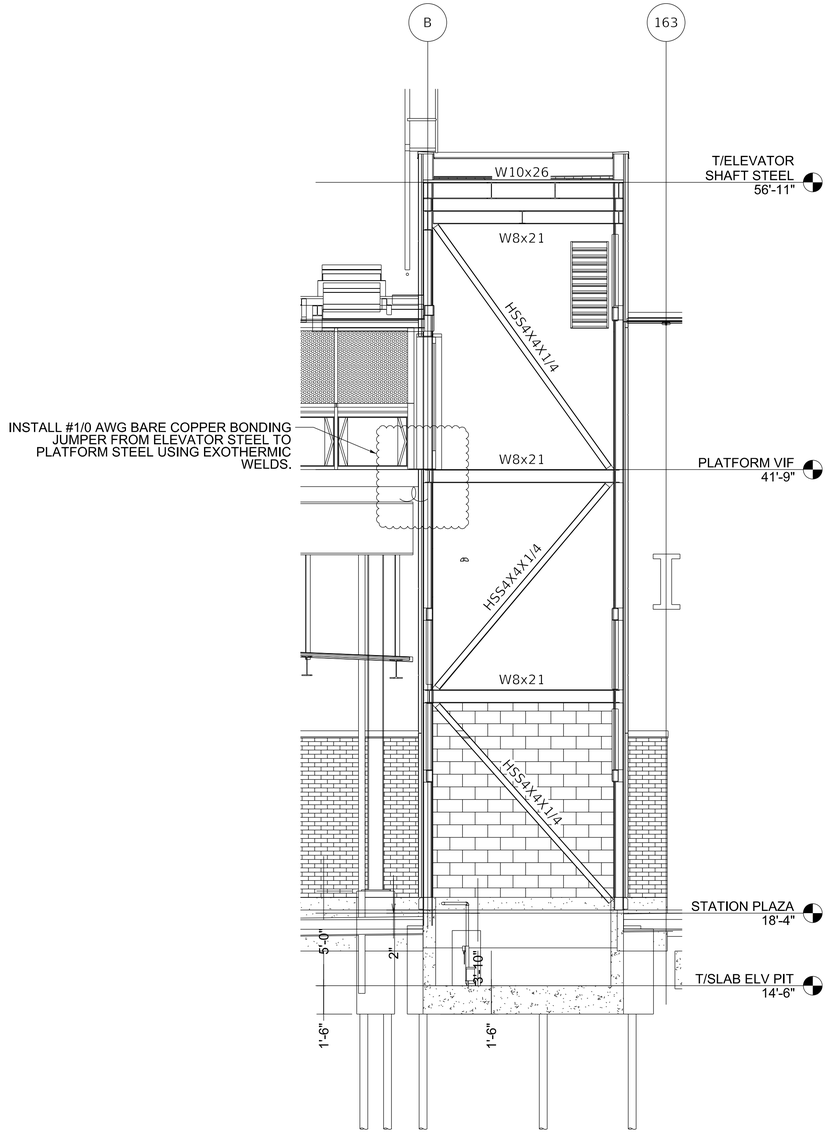
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PLATFORM AND STATION GROUNDING PLANS - 3

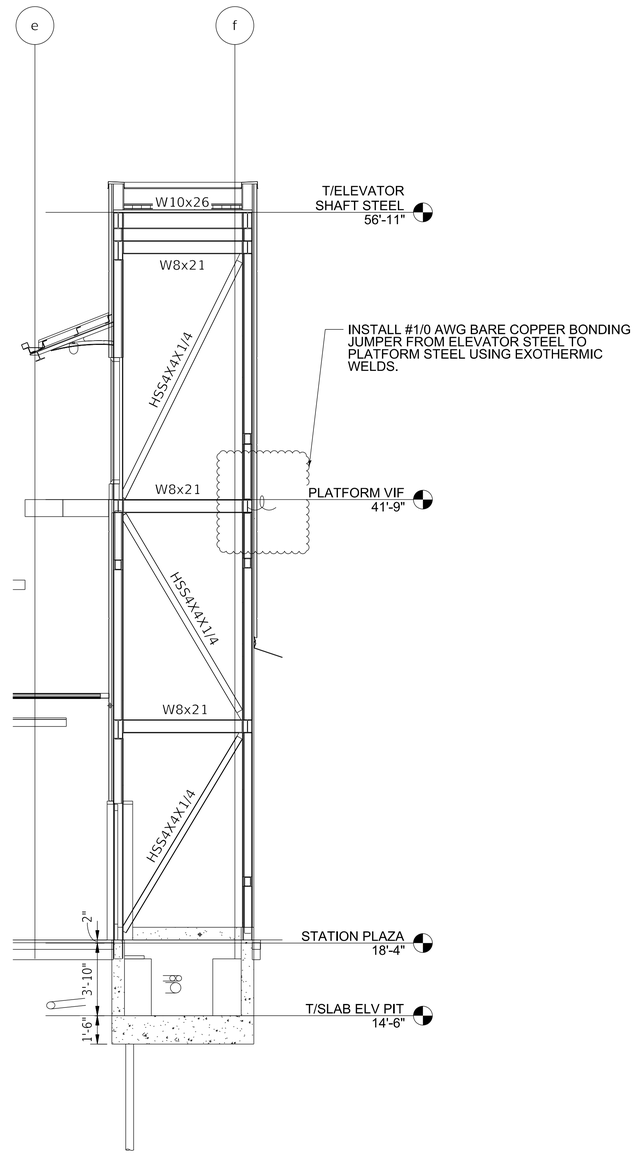
LSCAL G-016

VOLUME: X OF X



1 ELEV 01 - EAST
SCALE: 1/4" = 1'-0"

0 4' 8'
SCALE: 1/4"=1'-0"



2 ELEV 02 - EAST
SCALE: 1/4" = 1'-0"

0 4' 8'
SCALE: 1/4"=1'-0"

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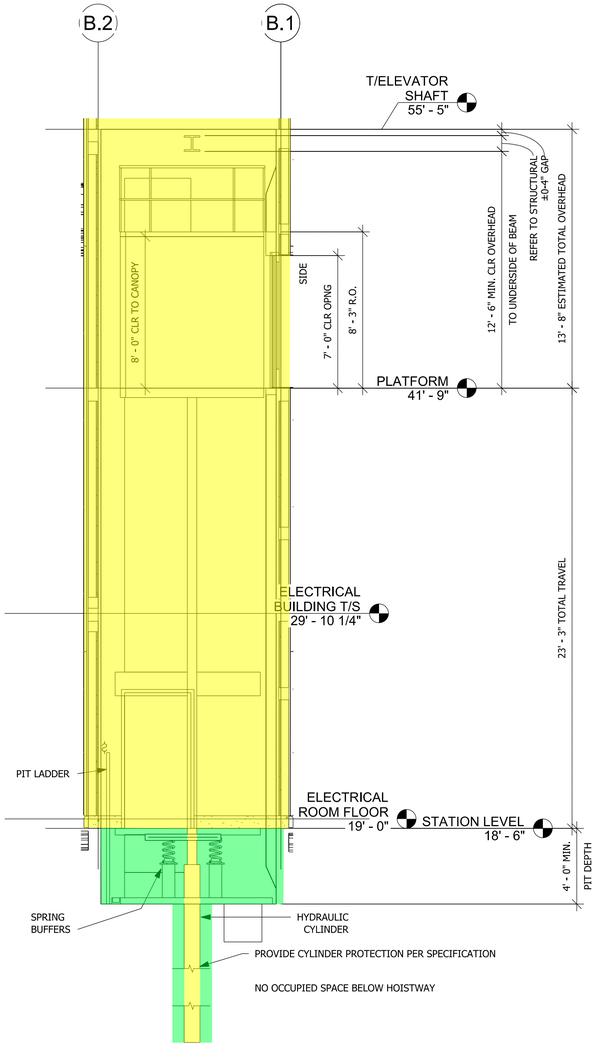
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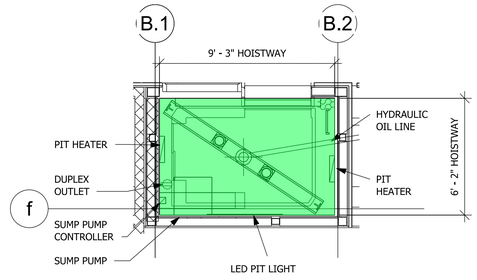
PLATFORM AND STATION GROUNDING PLANS - 4

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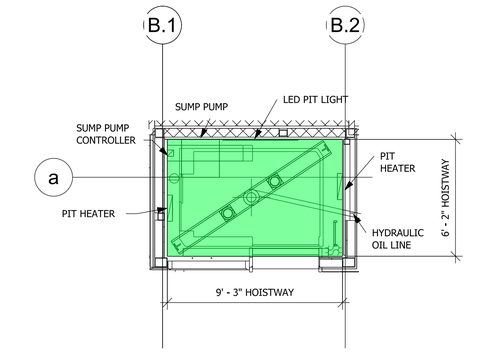
VOLUME: X OF X



1 TRANSVERSE HOISTWAY SECTION - ELEVATOR 1
SCALE: 1/4" = 1'-0"



2 PIT PLAN - STATION LEVEL - ELEVATOR 2
SCALE: 1/4" = 1'-0"



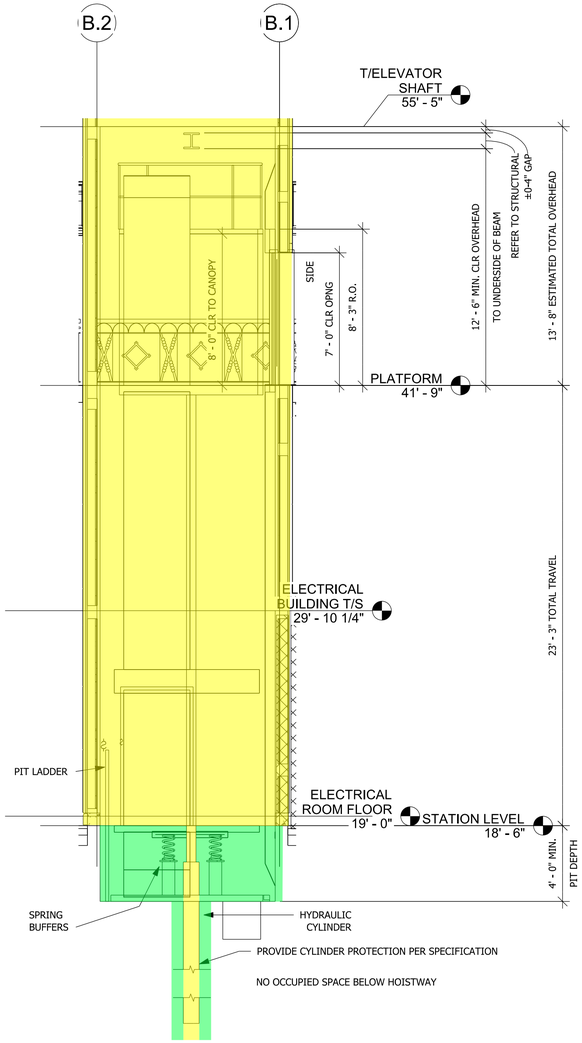
3 PIT PLAN - STATION LEVEL - ELEVATOR 1
SCALE: 1/4" = 1'-0"

LEGEND:

BUILDING STRUCTURE IS EARTH GROUNDED AND ELECTRICAL EQUIPMENT IS AT PLATFORM GROUND.

BUILDING STRUCTURE IS EARTH GROUNDED AND ELECTRICAL EQUIPMENT IS AT EARTH GROUND.

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4 TRANSVERSE HOISTWAY SECTION - ELEVATOR 2
SCALE: 1/4" = 1'-0"

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PLATFORM AND STATION GROUNDING PLANS - 5

LSCAL G-018

VOLUME: X OF X

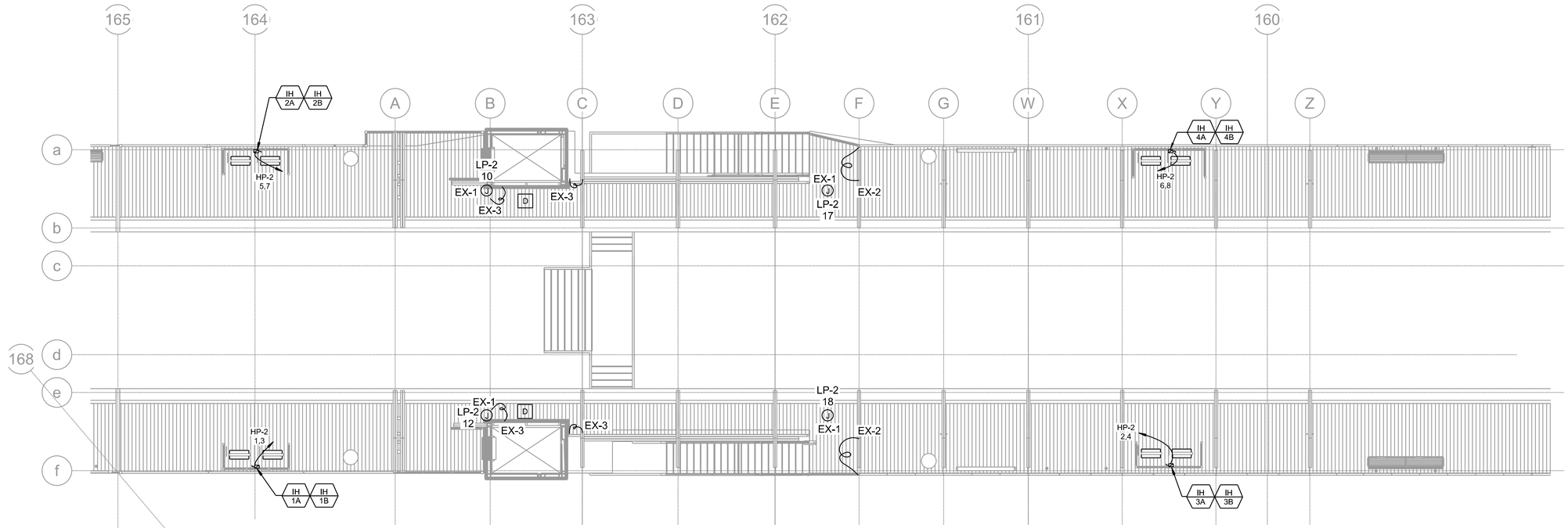
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GENERAL NOTES:

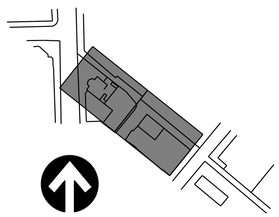
1. REFER TO SHEET E-001 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS. REFER TO SHEET E-002 FOR ELECTRICAL NOTES.
2. REFER TO SHEETS E-609 AND E-610 FOR PANEL SCHEDULES.
3. EXISTING ELECTRICAL DEVICES THAT WILL BE IMPACTED BY ELEVATOR AND PLATFORM MODIFICATIONS WILL BE REPLACED OR RELOCATED.
4. EXISTING ELECTRICAL DEVICES TO REMAIN WILL BE REFED FROM NEW ELECTRICAL PANELS IN NEW ELECTRICAL BUILDING.
5. CONNECT EXISTING, RELOCATED AND NEW INFRARED HEATERS TO NEW PANEL HP-1 IN NEW ELECTRICAL BUILDING. REUSE EXISTING CONDUIT WHERE POSSIBLE. PULL NEW WIRING FROM PANEL TO DEVICES.
6. ROUTE CABLE AND CONDUIT PARALLEL AND PERPENDICULAR TO BUILDING LINES IN A NEAT AND ORDERLY MANNER.
7. AVOID INTERFERENCE WITH THE OTHER TRADES AND EXISTING EQUIPMENT.
8. PROVIDE CONDUIT EXPANSION JOINTS AS NECESSARY.

KEY NOTES: (EX-#)

1. PROVIDE POWER TO ILLUMINATED SIGNAGE SUSPENDED FROM CANOPY STRUCTURE. REFER TO ARCHITECTURAL SIGNAGE (AG) SHEETS.
2. INSTALL #1/0 AWG BARE COPPER BONDING JUMPER FROM STAIR STEEL TO PLATFORM STEEL USING EXOTHERMIC WELDS.
3. INSTALL #1/0 AWG BARE COPPER BONDING JUMPER FROM ELEVATOR STEEL TO PLATFORM STEEL USING EXOTHERMIC WELDS.



1 PLATFORM - POWER PLAN CENTER
SCALE: 1/8" = 1'-0"



0 4' 8' 16'
SCALE: 1/8"=1'-0"

HNTB Corporation
One South Wacker Drive, Suite 2500
Chicago, Illinois 60606
(312) 930-9119

CHICAGO TRANSIT AUTHORITY
ENGINEERING

SENSITIVE SECURITY INFORMATION

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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	
IN CHARGE	
APPROVED BY	
CHECKED BY	
DESIGNED BY	
DRAWN BY	

MARK	DATE	DESCRIPTION
0	12/30/24	ISSUE FOR BID

PLATFORM AND STATION GROUNDING PLANS - 6

LSCAL | G-019

VOLUME: X OF X

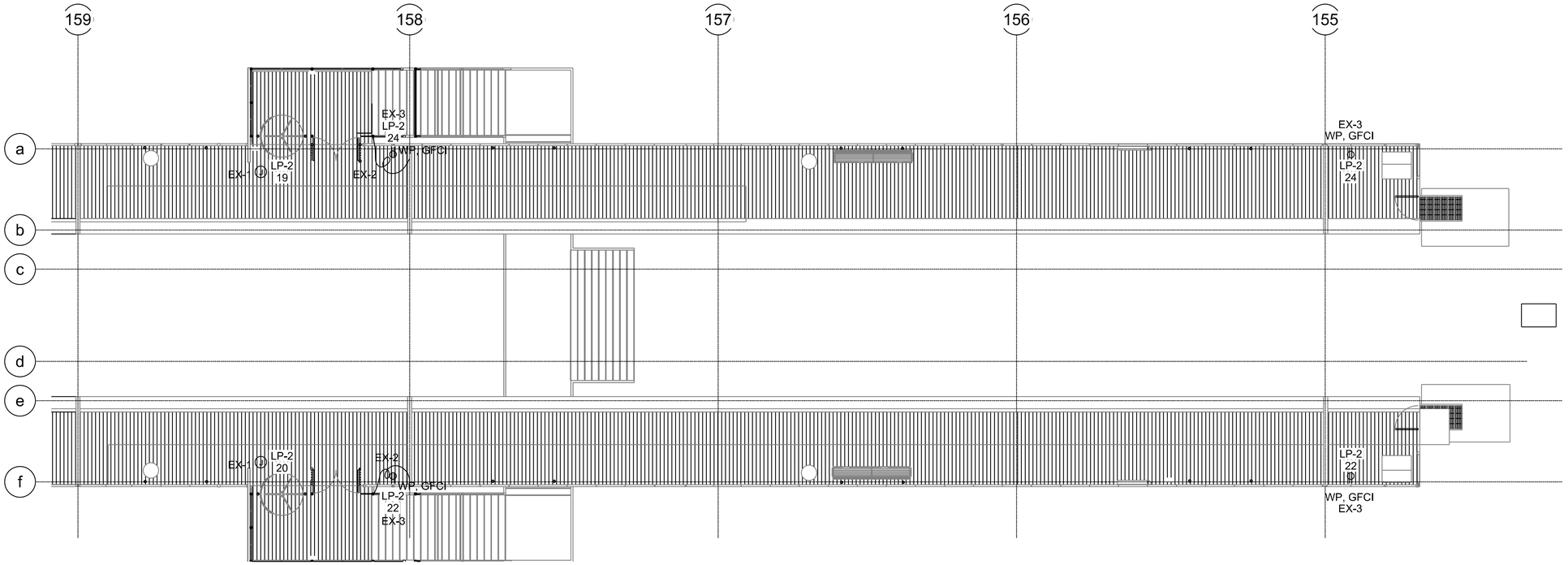
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GENERAL NOTES:

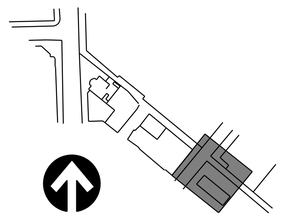
1. REFER TO SHEET E-001 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS. REFER TO SHEET E-002 FOR ELECTRICAL NOTES.
2. EXISTING ELECTRICAL DEVICES THAT WILL BE IMPACTED BY ELEVATOR AND PLATFORM MODIFICATIONS WILL BE REPLACED OR RELOCATED.
3. REFER TO SHEETS E-609, E-610 AND E-611 FOR PANEL SCHEDULES.
4. ROUTE CABLE AND CONDUIT PARALLEL AND PERPENDICULAR TO BUILDING LINES IN A NEAT AND ORDERLY MANNER.
5. AVOID INTERFERENCE WITH THE OTHER TRADES AND EXISTING EQUIPMENT.
6. PROVIDE CONDUIT EXPANSION JOINTS AS NECESSARY.

KEY NOTES: (EX-#)

1. PROVIDE POWER TO ILLUMINATED SIGNAGE SUSPENDED FROM CANOPY STRUCTURE. REFER TO ARCHITECTURAL SIGNAGE (AG) SHEETS.
2. INSTALL #1/0 AWG BARE COPPER BONDING JUMPER FROM STAIR STEEL TO PLATFORM STEEL USING EXOTHERMIC WELDS.



1 PLATFORM - POWER PLAN SOUTH
SCALE: 1/8" = 1'-0"



0 4' 8' 16'
SCALE: 1/8"=1'-0"

...\000_General\04_Grounding\G-020
PLOTTED ON: 11/13/2024 12:12:09 PM

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LOGAN SQUARE LINE - CALIFORNIA STATION

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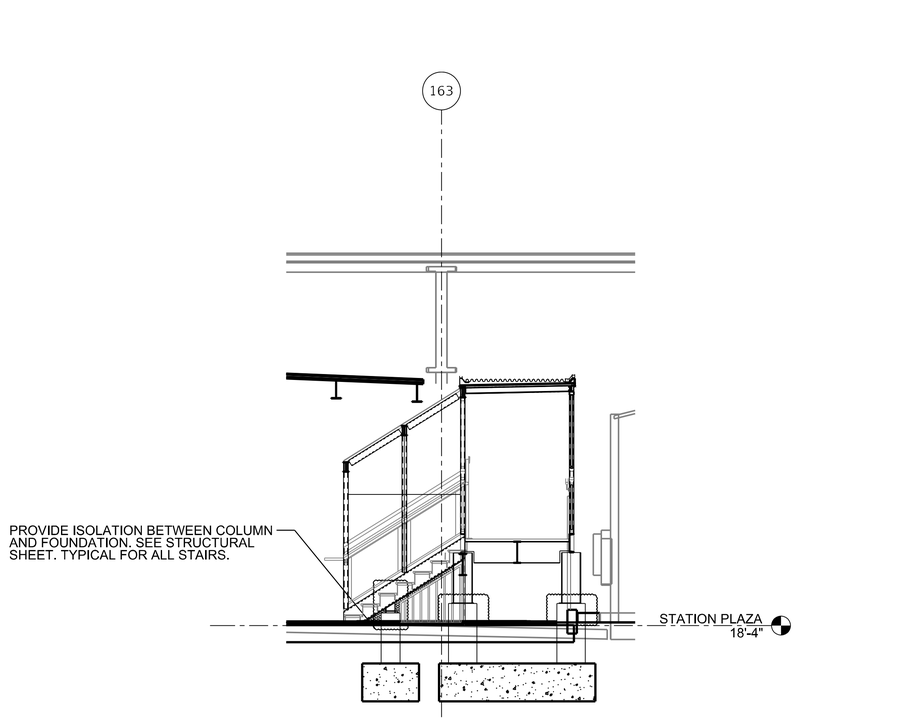
PROJECT NO	
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0	12/30/24	ISSUE FOR BID

PLATFORM AND STATION GROUNDING PLANS - 7

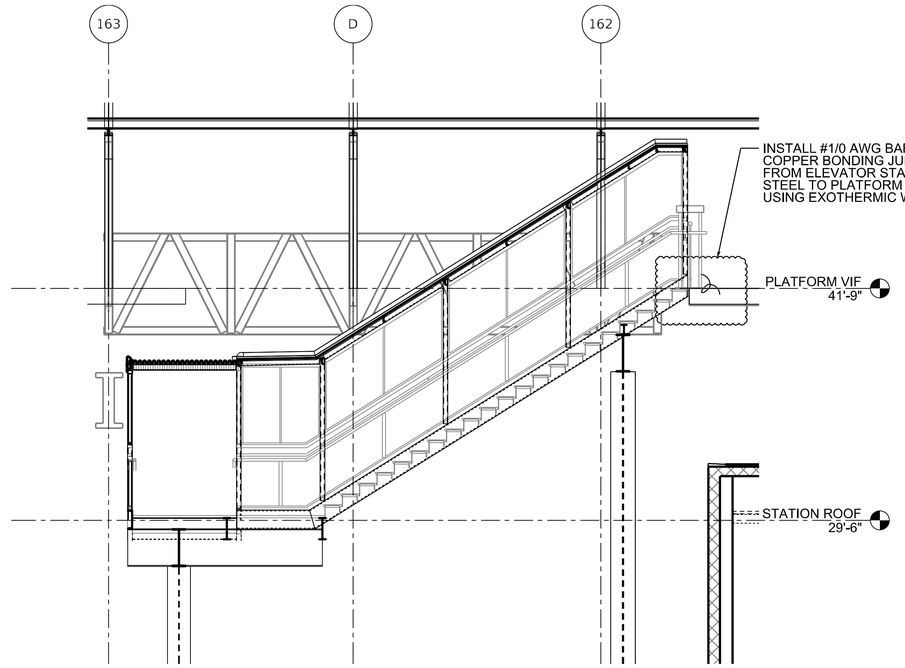
LSCAL | G-020

VOLUME: X OF X



1 STAIR 01 - LOWER LANDING
SCALE: 1/4" = 1'-0"

0 4' 8'
SCALE: 1/4"=1'-0"



2 STAIR 01 - MIDDLE TO UPPER LANDING
SCALE: 1/4" = 1'-0"

0 4' 8'
SCALE: 1/4"=1'-0"

PLOTTED ON: 11/5/2024 7:36:53 PM ...\000_General\04_Grounding\G-021

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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

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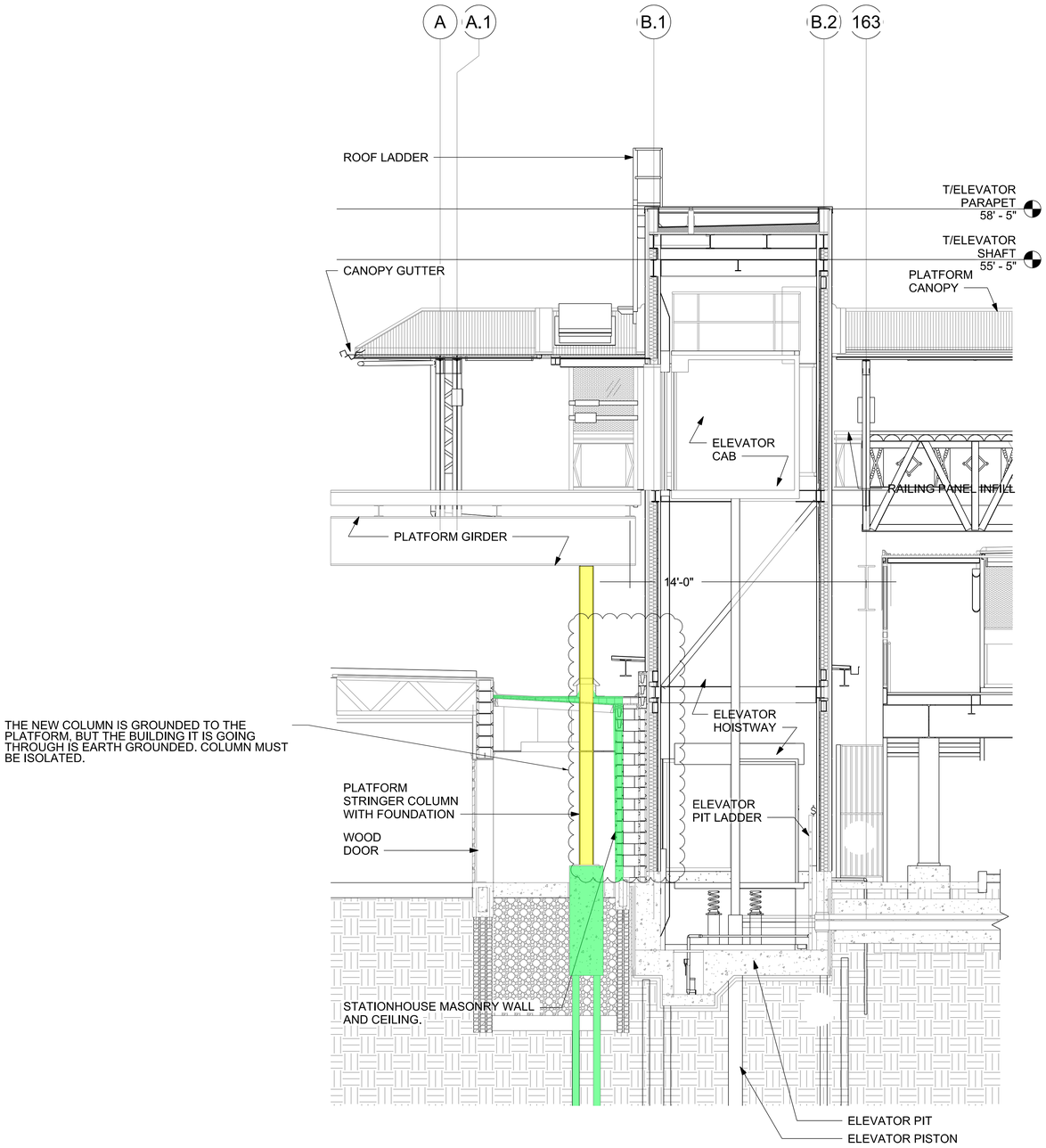
PROJECT NO	
IN CHARGE	
APPROVED BY	
CHECKED BY	
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MARK	DATE	DESCRIPTION
0	12/30/24	ISSUE FOR BID

PLATFORM AND STATION GROUNDING PLANS - 8

LSCAL | G-021

VOLUME: X OF X



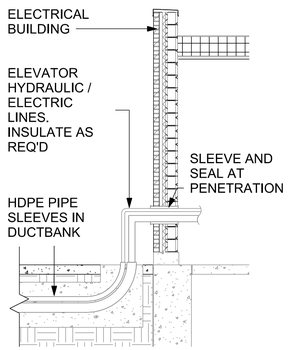
1 INBOUND ELEVATOR - SECTION ALONG PLATFORM
SCALE: 1/4" = 1'-0"

LEGEND:

BUILDING STRUCTURE IS EARTH GROUNDED AND ELECTRICAL EQUIPMENT IS AT PLATFORM GROUND.

BUILDING STRUCTURE IS EARTH GROUNDED AND ELECTRICAL EQUIPMENT IS AT EARTH GROUND.

BUILDING STRUCTURE IS PLATFORM GROUNDED AND ELECTRICAL EQUIPMENT IS AT PLATFORM GROUND.



2 HANDHOLE SECTION
SCALE: 1/4" = 1'-0"

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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

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DESIGNED BY	
DRAWN BY	

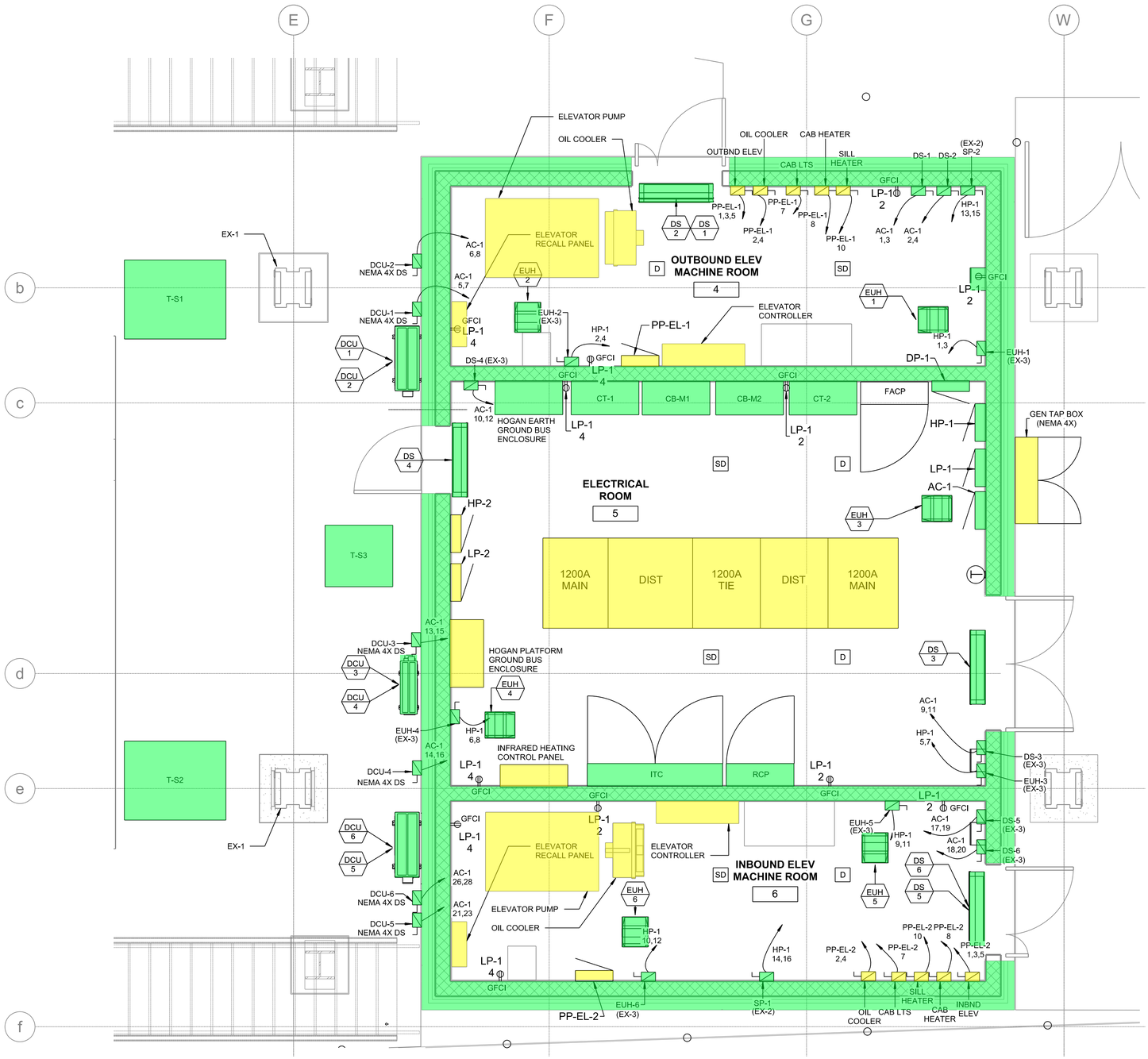
MARK	DATE	DESCRIPTION
0	12/30/24	ISSUE FOR BID

PLATFORM AND STATION GROUNDING PLANS - 9

LSCAL | G-022

VOLUME: X OF X

PLOTTED ON: 11/5/2024 7:18:50 PM G-022



LEGEND:

BUILDING STRUCTURE IS EARTH GROUNDED AND ELECTRICAL EQUIPMENT IS AT PLATFORM GROUND.

BUILDING STRUCTURE IS EARTH GROUNDED AND ELECTRICAL EQUIPMENT IS AT EARTH GROUND.

BUILDING STRUCTURE IS PLATFORM GROUNDED AND ELECTRICAL EQUIPMENT IS AT PLATFORM GROUND.

1 STATION - GROUNDING PLAN
SCALE: 3/8" = 1'-0"

PLOTTED ON: 11/5/2024 7:18:56 PM G-023

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LOGAN SQUARE LINE - CALIFORNIA STATION

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CHECKED BY	
DESIGNED BY	
DRAWN BY	

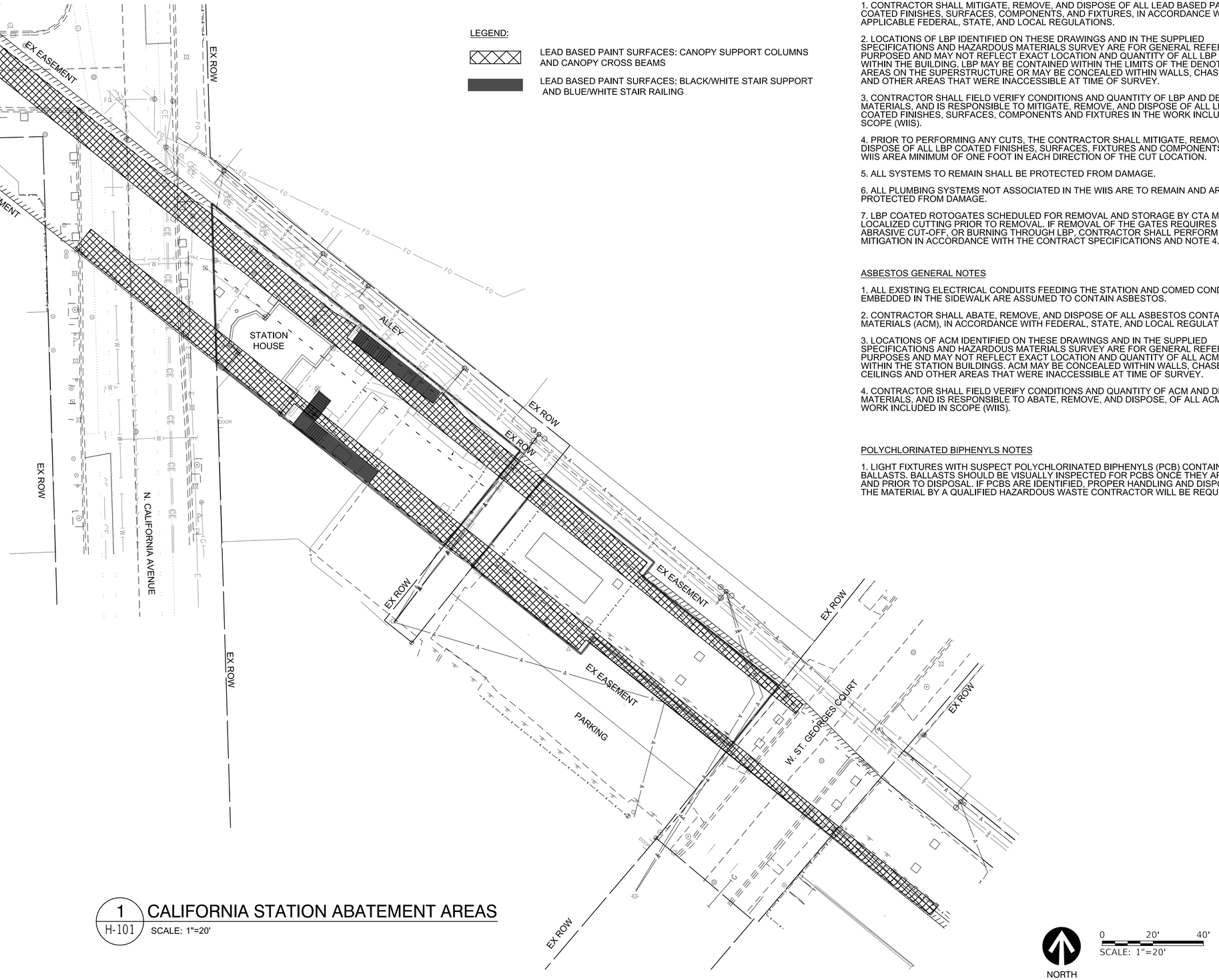
MARK	DATE	DESCRIPTION
0	12/30/24	ISSUE FOR BID

PLATFORM AND STATION GROUNDING PLANS - 10

LSCAL

G-023

VOLUME: X OF X



1 / H-101 CALIFORNIA STATION ABATEMENT AREAS

SCALE: 1"=20'

LEAD GENERAL NOTES

1. CONTRACTOR SHALL MITIGATE, REMOVE, AND DISPOSE OF ALL LEAD BASED PAINT (LBP) COATED FINISHES, SURFACES, COMPONENTS, AND FIXTURES, IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.

2. LOCATIONS OF LBP IDENTIFIED ON THESE DRAWINGS AND IN THE SUPPLIED SPECIFICATIONS AND HAZARDOUS MATERIALS SURVEY ARE FOR GENERAL REFERENCE PURPOSED AND MAY NOT REFLECT EXACT LOCATION AND QUANTITY OF ALL LBP LOCATED WITHIN THE BUILDING. LBP MAY BE CONTAINED WITHIN THE LIMITS OF THE DENOTED AREAS ON THE SUPERSTRUCTURE OR MAY BE CONCEALED WITHIN WALLS, CHASES, CEILINGS AND OTHER AREAS THAT WERE INACCESSIBLE AT TIME OF SURVEY.

3. CONTRACTOR SHALL FIELD VERIFY CONDITIONS AND QUANTITY OF LBP AND DEMOLITION MATERIALS, AND IS RESPONSIBLE TO MITIGATE, REMOVE, AND DISPOSE OF ALL LBP COATED FINISHES, SURFACES, COMPONENTS AND FIXTURES IN THE WORK INCLUDED IN SCOPE (WIIS).

4. PRIOR TO PERFORMING ANY CUTS, THE CONTRACTOR SHALL MITIGATE, REMOVE AND DISPOSE OF ALL LBP COATED FINISHES, SURFACES, FIXTURES AND COMPONENTS IN THE WIIS AREA MINIMUM OF ONE FOOT IN EACH DIRECTION OF THE CUT LOCATION.

5. ALL SYSTEMS TO REMAIN SHALL BE PROTECTED FROM DAMAGE.

6. ALL PLUMBING SYSTEMS NOT ASSOCIATED IN THE WIIS ARE TO REMAIN AND ARE TO BE PROTECTED FROM DAMAGE.

7. LBP COATED ROTOGATES SCHEDULED FOR REMOVAL AND STORAGE BY CTA MAY REQUIRE LOCALIZED CUTTING PRIOR TO REMOVAL. IF REMOVAL OF THE GATES REQUIRES TORCH CUT, ABRASIVE CUT-OFF, OR BURNING THROUGH LBP, CONTRACTOR SHALL PERFORM LBP MITIGATION IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS AND NOTE 4.

ASBESTOS GENERAL NOTES

1. ALL EXISTING ELECTRICAL CONDUITS FEEDING THE STATION AND COMED CONDUIT EMBEDDED IN THE SIDEWALK ARE ASSUMED TO CONTAIN ASBESTOS.

2. CONTRACTOR SHALL ABATE, REMOVE, AND DISPOSE OF ALL ASBESTOS CONTAINING MATERIALS (ACM), IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

3. LOCATIONS OF ACM IDENTIFIED ON THESE DRAWINGS AND IN THE SUPPLIED SPECIFICATIONS AND HAZARDOUS MATERIALS SURVEY ARE FOR GENERAL REFERENCE PURPOSES AND MAY NOT REFLECT EXACT LOCATION AND QUANTITY OF ALL ACM LOCATED WITHIN THE STATION BUILDINGS. ACM MAY BE CONCEALED WITHIN WALLS, CHASES, CEILINGS AND OTHER AREAS THAT WERE INACCESSIBLE AT TIME OF SURVEY.

4. CONTRACTOR SHALL FIELD VERIFY CONDITIONS AND QUANTITY OF ACM AND DEMOLITION MATERIALS, AND IS RESPONSIBLE TO ABATE, REMOVE, AND DISPOSE, OF ALL ACM IN THE WORK INCLUDED IN SCOPE (WIIS).

POLYCHLORINATED BIPHENYLS NOTES

1. LIGHT FIXTURES WITH SUSPECT POLYCHLORINATED BIPHENYLS (PCB) CONTAINING BALLASTS. BALLASTS SHOULD BE VISUALLY INSPECTED FOR PCBS ONCE THEY ARE REMOVED AND PRIOR TO DISPOSAL. IF PCBS ARE IDENTIFIED, PROPER HANDLING AND DISPOSAL OF THE MATERIAL BY A QUALIFIED HAZARDOUS WASTE CONTRACTOR WILL BE REQUIRED.

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(312) 930-9119

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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	S. LASHOCK
CHECKED BY	J. SCHAEFER
DESIGNED BY	S. LASHOCK
DRAWN BY	L. SPARBER

MARK	DATE	DESCRIPTION
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CALIFORNIA STATION ABATEMENT AREAS

LSCAL H-101

VOLUME: X OF X

PLOTTED ON: 11/5/2024 7:56:17 PM 050_LSCAL_H_100

ALTA/NSPS SURVEY

LEGAL DESCRIPTION

LOTS 7 (EXCEPT THE SOUTHWESTERLY 9.75 FEET OF THE NORTHWESTERLY 55 FEET AND EXCEPT THE SOUTHWESTERLY 2.25 FEET LYING EASTERLY OF THE NORTHWESTERLY 55 FEET) IN W.O. COLES SUBDIVISION OF LOTS 22 TO 25 IN BLOCK 2 AND OF OTHER PARTS OF BLOCKS 2, 3 AND 5 IN STAVE'S SUBDIVISION OF THAT PART SOUTHWEST OF MILWAUKEE AVENUE OF THE NORTHEAST 1/4 OF SECTION 36, TOWNSHIP 40 NORTH, RANGE 13, EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS.

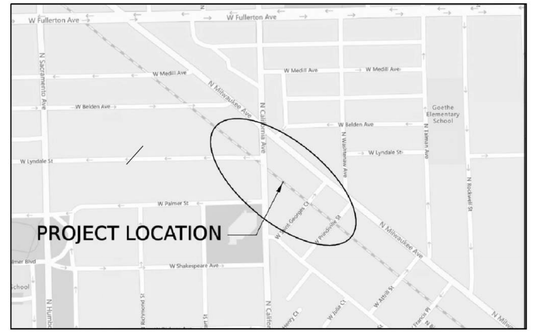
AND EXCEPTING THEREFROM THE FOLLOWING:

ALL RIGHTS, TITLE AND INTEREST IN AND TO THE AIRSPACE ABOVE A HORIZONTAL PLANE LOCATED AT 28 FEET CHICAGO CITY DATUM, WHICH HORIZONTAL PLANE IS HORIZONTAL WITH THE SURFACE OF THE NORTHEASTERLY 3 FEET OF THE SOUTHWESTERLY 5.25 FEET (EXCEPT THE NORTHWESTERLY 55 FEET THEREOF) OF SUB-LOT 7 ALL IN W. 0. COLES SUBDIVISION AFORESAID.

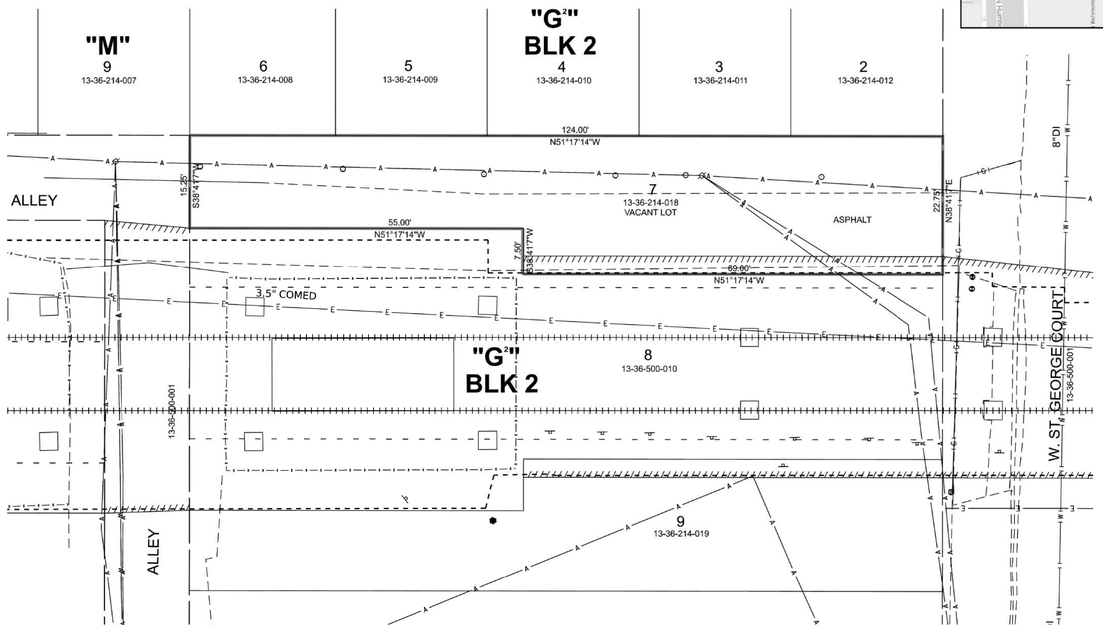
SITUATED IN THE COUNTY OF COOK AND STATE OF ILLINOIS.

PERMANENT TAX NUMBER: 13-36-214-018

SURVEYOR'S NOTE REGARDING TABLE A ITEM 17: NO KNOWN PROPOSED CHANGES IN RIGHT OF WAY LINES FOUND. NO EVIDENCE OF RECENT STREET OR SIDEWALK CONSTRUCTION OR REPAIRS OBSERVED IN THE PROCESS OF CONDUCTING THE FIELDWORK.
UTILITIES SHOWN HEREON ARE PER OBSERVED EVIDENCE TOGETHER WITH EVIDENCE FROM MARKINGS BY UTILITY COMPANIES AND OTHER APPROPRIATE SOURCES. SOURCE INFORMATION FROM MARKINGS HAS BEEN COMBINED WITH OBSERVED EVIDENCE OF UTILITIES TO DEVELOP A VIEW OF THOSE UNDERGROUND UTILITIES. HOWEVER, LACKING EXCAVATION, THE EXACT LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY, COMPLETELY AND RELIABLY DEPICTED. WHERE ADDITIONAL OR MORE DETAILED INFORMATION IS REQUIRED, THE CLIENT IS ADVISED THAT EXCAVATION AND/OR PRIVATE UTILITY LOCATE REQUEST MAY BE NECESSARY.



KEY MAP



LEGEND FOR EXISTING TOPOGRAPHIC SYMBOLS

DRAINAGE MANHOLE	
CATCH BASIN	
INLET	
DECIDUOUS TREE	
MAIL BOX	
UTILITY TELEPHONE SPLICE BOX	
UTILITY POWER POLE	
UTILITY TRAFFIC SIGNAL	
UTILITY LIGHT POLE	
UTILITY FIRE HYDRANT	
UTILITY MANHOLE	
UTILITY TELEPHONE POLE	
UTILITY GUY ANCHOR	
ADVERTISING/ WARNING SIGN	
UTILITY HANDHOLE	
UTILITY SPLICE BOX	
UTILITY JUNCTION BOX	
UTILITY HEAVY DUTY HANDHOLE	
UTILITY DOUBLE HANDHOLE	
UTILITY CONTROLLER	
UTILITY WATER METER	
BOLLARD	
EXISTING AERIAL LINE	——A——A——
EXISTING PLATFORM EXTENTS	- - - - - - - -
CTA RIGHTS	//////////////////
ACQUISITION PROPERTY	————————
FENCE	-·-·-·-·-·-·-
CTA TRACKS	++++++++++++++++++

SUBDIVISION DESIGNATION

"G" - W.O. COLE'S SUB. OF LOTS 22-25 & 30-35 IN BLK. 2 AND LOTS 7-12, 19-26 & 34-36 IN BLK. 3 AND LOTS 7-12 & 19-26 IN BLK. 5 IN STAVE'S SUB. OF PART OF N.E. 1#4 OF SEC. 36-40-13. REC. MAY 13, 1872. DOC. 30384.

"M" - JOHN McASSEY'S RESUB. OF LOTS 26 TO 29 BLK.2 OF LEWIS STAVE'S SUB. OF THE S.W. PART OF THE N.E. 1#4 SEC. 36.40.13. REC. AUGUST 18, 1874. DOC. 176190.

KNOWN TITLE COMMITMENT ORDER NUMBER AEG-CO-20949.0SCHEDULE B SECTION II (EXCEPTIONS) AFFECTING THE SUBJECT PARCEL.

4. RIGHTS OF THE PUBLIC, THE STATE, AND THE MUNICIPALITY, IN AND TO THAT PART OF THE LAND, IF ANY, TAKEN OR USED FOR ROAD PURPOSES.

Surveyor's Certification:

STATE OF ILLINOIS)
) S.S
COUNTY OF COOK)

To: Chicago Transit Authority
Fidelity National Title Insurance Company

This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2021 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes Items 1, 2, 3, 4, 5, 6A, 7(a), 7(b)(1), 8, 9, 11A, 13, 14, 16, 17, 18, and 19 from the ALTA/NSPS Land Title Surveys Table A thereof.

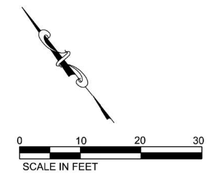
Dated at Chicago, IL this _____ day of _____, 20__.

Atlas Engineering Group, LTD., Illinois Professtional Design Firm 174-00558-0014

_____
Roark V. Rogers
Illinois Professional Land Surveyor 35-3765
License Expires November 30, 2022
Field Work Completed: May 9, 2022

PROFESSIONAL LAND SURVEYOR · ROARK V. ROGERS · 03765 · DEERFIELD, ILLINOIS · STATE OF ILLINOIS

Any electronic/reproducible signature shown hereon is for electronic transmittal only. The original plat and all authorized hard copy prints will have an original signature, in conformance with statutory requirements.



SURVEY PREPARED BY:
AEG ATLAS ENGINEERING GROUP, LTD.
710 Estate Dr, Deerfield, IL 60015
847.753.8020 (office) | 847.753.8023 (fax)
Professional Design Firm License No. 184-005508

DATE: 09-09-2024
DRAWN BY: KB
DESIGN BY: RVR
REVIEWED BY: RVR

PREPARED FOR
Chicago Transit Autority
567 W. Lake Street
Chicago, Illinois 60661

REVISIONS		
NO.	DATE	DESCRIPTION
1	09/09/2024	ADD COLUMNS, AND COMPANY ADDRESS

ALTA/NSPS SURVEY

LOT 7
W.O. COLE'S SUBDIVISION

SHEET 1 OF 1

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HNTB Corporation
One South Wacker Drive, Suite 900
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(312) 930-9119

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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	
APPROVED BY	
CHECKED BY	
DESIGNED BY	
DRAWN BY	

MARK	DATE	DESCRIPTION
0	12/30/24	ISSUE FOR BID

PAGE 1

LSCAL V-101

VOLUME: X OF X

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PLOTTED ON: 11/5/2024 7:56:23 PM LSCAL-V-101

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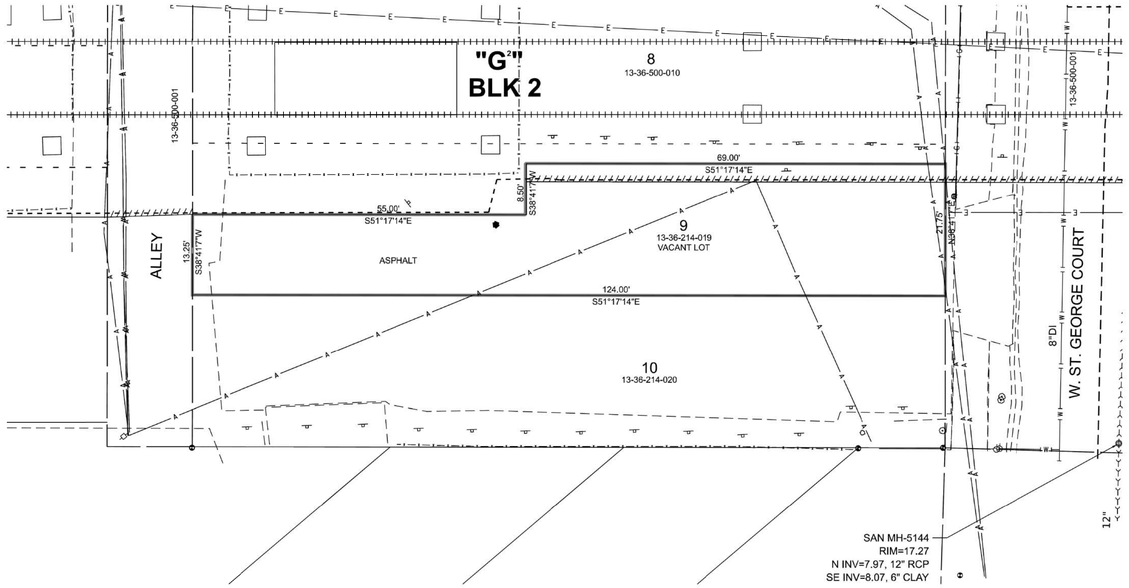
LEGEND FOR EXISTING TOPOGRAPHIC SYMBOLS

- DRAINAGE MANHOLE
- CATCH BASIN
- INLET
- DECIDUOUS TREE
- MAIL BOX
- UTILITY TELEPHONE SPLICE BOX
- UTILITY POWER POLE
- UTILITY TRAFFIC SIGNAL
- UTILITY LIGHT POLE
- UTILITY FIRE HYDRANT
- UTILITY MANHOLE
- UTILITY TELEPHONE POLE
- UTILITY GUY ANCHOR
- ADVERTISING/ WARNING SIGN
- UTILITY HANDHOLE
- UTILITY SPLICE BOX
- UTILITY JUNCTION BOX
- UTILITY HEAVY DUTY HANDHOLE
- UTILITY DOUBLE HANDHOLE
- UTILITY CONTROLLER
- UTILITY WATER METER
- BOLLARD
- EXISTING AERIAL LINE
- EXISTING PLATFORM EXTENTS
- CTA RIGHTS
- ACQUISITION PROPERTY
- FENCE
- CTA TRACKS

LEGAL DESCRIPTION

SUBLOT NINE (9) (EXCEPT THE NORTH EASTERLY THREE AND ONE QUARTER (3 1/4) FEET THEREOF AND ALSO EXCEPT THE SOUTH WESTERLY EIGHT AND ONE HALF (8 1/2) FEET OF THE NORTH EASTERLY ELEVEN AND THREE QUARTERS (11 3/4) FEET OF THE NORTH WESTERLY FIFTYFIVE (55) FEET THEREOF) IN W.O. COLE'S SUBDIVISION OF LOTS TWENTY-TWO (22) TO TWENTY-FIVE (25), INCLUSIVE, IN BLOCK TWO (2) AND OF OTHER PARTS OF BLOCKS TWO (2), THREE (3), AND FIVE (5) IN STAVE'S SUBDIVISION OF THAT PART SOUTHWEST OF MILWAUKEE AVENUE, OF THE NORTHEAST QUARTER OF SECTION THIRTY-SIX (36), TOWNSHIP FORTY (40) NORTH, RANGE THIRTEEN (13), EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS.

PERMANENT TAX NUMBER: 13-36-214-019



SUBDIVISION DESIGNATION

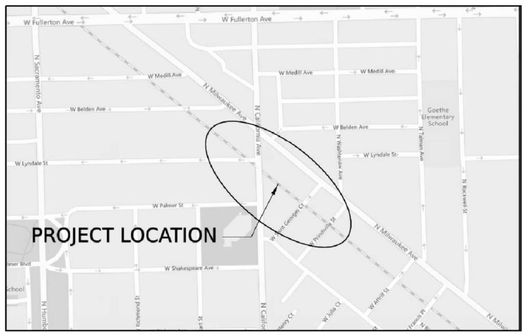
"G" - W.O. COLE'S SUB. OF LOTS 22-25 & 30-35 IN BLK. 2 AND LOTS 7-12, 19-26 & 34-36 IN BLK. 3 AND LOTS 7-12 & 19-26 IN BLK. 5 IN STAVE'S SUB. OF PART OF N.E. 1/4 OF SEC. 36-40-13. REC. MAY 13, 1872. DOC. 30384.

KNOWN TITLE COMMITMENT ORDER NUMBER AEG-CO-20950.0SCHEDULE B SECTION II (EXCEPTIONS) AFFECTING THE SUBJECT PARCEL.

4. RIGHTS OF THE PUBLIC, THE STATE, AND THE MUNICIPALITY, IN AND TO THAT PART OF THE LAND, IF ANY, TAKEN OR USED FOR ROAD PURPOSES.

8. AIR RIGHTS IN FAVOR OF THE CHICAGO TRANSIT AUTHORITY SET FORTH IN TRUSTEES DEED RECORDED AS DOCUMENT 25495454.

SURVEYOR'S NOTE REGARDING TABLE A ITEM 17: NO KNOWN PROPOSED CHANGES IN RIGHT OF WAY LINES FOUND. NO EVIDENCE OF RECENT STREET OR SIDEWALK CONSTRUCTION OR REPAIRS OBSERVED IN THE PROCESS OF CONDUCTING THE FIELDWORK.
UTILITIES SHOWN HEREON ARE PER OBSERVED EVIDENCE TOGETHER WITH EVIDENCE FROM MARKINGS BY UTILITY COMPANIES AND OTHER APPROPRIATE SOURCES. SOURCE INFORMATION FROM MARKINGS HAS BEEN COMBINED WITH OBSERVED EVIDENCE OF UTILITIES TO DEVELOP A VIEW OF THOSE UNDERGROUND UTILITIES. HOWEVER, LACKING EXCAVATION, THE EXACT LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY, COMPLETELY AND RELIABLY DEPICTED. WHERE ADDITIONAL OR MORE DETAILED INFORMATION IS REQUIRED, THE CLIENT IS ADVISED THAT EXCAVATION AND/OR PRIVATE UTILITY LOCATE REQUEST MAY BE NECESSARY.



KEY MAP

Surveyor's Certification:

STATE OF ILLINOIS)
) S.S
COUNTY OF COOK)

To: Chicago Transit Authority
Fidelity National Title Insurance Company

This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2021 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes Items 1, 2, 3, 4, 5, 6A, 7(a), 7(b)(1), 8, 9, 11A, 13, 14, 16, 17, 18, and 19 from the ALTA/NSPS Land Title Surveys Table A thereof.

Dated at Chicago, IL. this _____ day of _____, 20__.

Atlas Engineering Group, LTD., Illinois Professtional Design Firm 174-00558-0014

_____
Roark V. Rogers
Illinois Professional Land Surveyor 35-3765
License Expires November 30, 2022
Field Work Completed: May 9, 2022

PROFESSIONAL LAND SURVEYOR
ROARK V. ROGERS
035765
DEERFIELD, ILLINOIS
STATE OF ILLINOIS

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0 10 20 30
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AEG ATLAS ENGINEERING GROUP, LTD.
710 Estate Dr, Deerfield, IL 60015
847.753.8020 (office) | 847.753.8023 (fax)
Professional Design Firm License No. 184-005508

DATE: 08-09-2024
DRAWN BY: KB
DESIGN BY: RVR
REVIEWED BY: RVR

PREPARED FOR
Chicago Transit Authority
567 W. Lake Street
Chicago, Illinois 60661

REVISIONS		
NO.	DATE	DESCRIPTION
1	09/09/2024	ADD COLUMNS, AND COMPANY ADDRESS

ALTA/NSPS SURVEY

LOT 9
W.O. COLE'S SUBDIVISION

SHEET 1 OF 1

HNTB
HNTB Corporation
One South Wacker Drive, Suite 900
Chicago, Illinois 60606
(312) 930-9119

CHICAGO TRANSIT AUTHORITY
ENGINEERING

SENSITIVE SECURITY INFORMATION

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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
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APPROVED BY	
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DESIGNED BY	
DRAWN BY	

MARK	DATE	DESCRIPTION
0	12/30/24	ISSUE FOR BID

PAGE 2

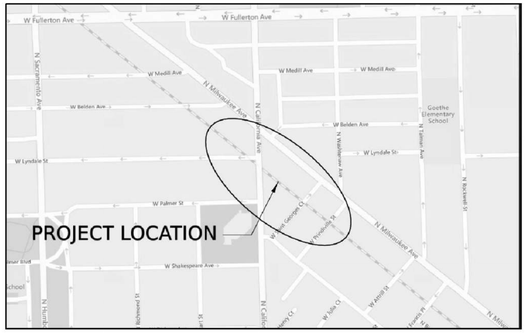
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VOLUME: X OF X

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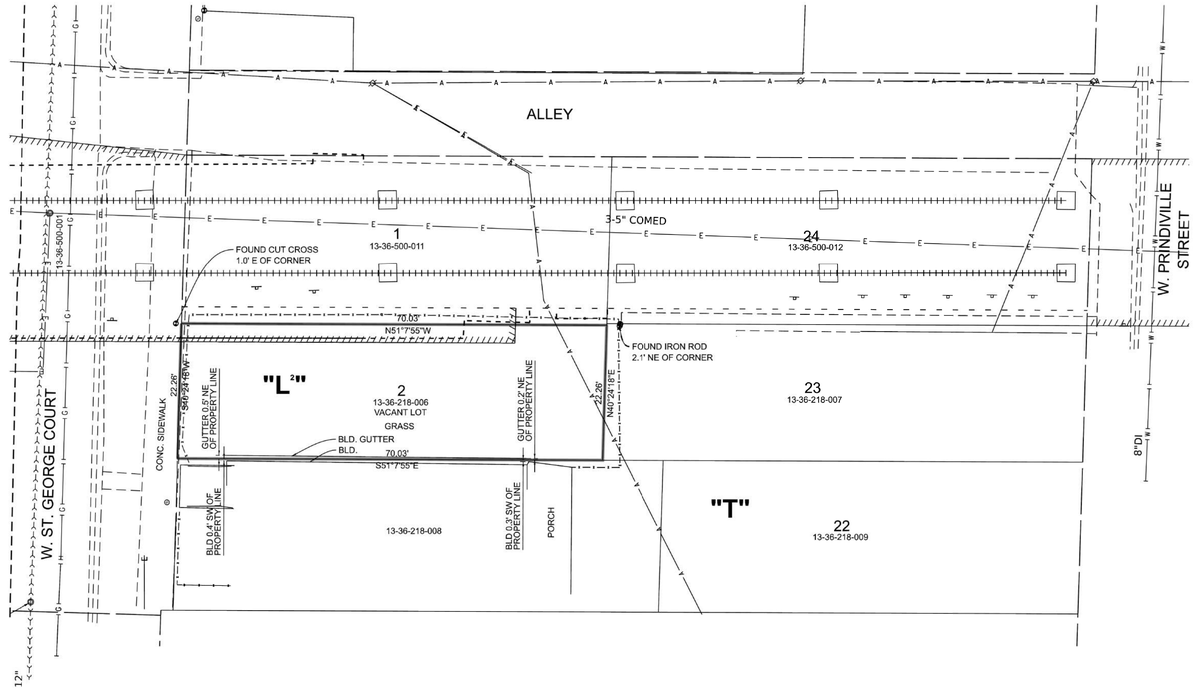
ALTA/NSPS SURVEY



KEY MAP

LEGAL DESCRIPTION

PARCEL 1: SUBLOT 2 (EXCEPT THE NORTHEASTERLY 2 3/4 FEET THEREOF) IN ALBERT LARSEN'S SUBDIVISION OF PART OF LOTS 23 AND 24 IN BLOCK 1 IN ATTRILL'S SUBDIVISION OF PART OF BLOCKS 2, 3, AND 5 IN STAVE'S SUBDIVISION OF THAT PART SOUTHWEST OF MILWAUKEE AVENUE OF THE NORTHEAST 1/4 OF SECTION 36, TOWNSHIP 40 NORTH, RANGE 13, EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS.
TOGETHER WITH THE RIGHTS, TITLE, AN INTERESTS OF CTA PURSUANT TO WARRANTY DEED RECORDED AS DOCUMENT 25495453.
THE NORTHWESTERLY 55 FEET OF SOUTHWESTLY 3 FEET OF THE NORTHEASTERLY 5.75 FEET OF LOT 2, ALL IN ALBERT LARSENS SUBDIVISION OF PART OF LOTS 23 AND 24 IN BLOCK 1 IN ATTRILLS SUBDIVISION OF THE NORTH EAST QUARTER OF SECTION 36, TOWNSHIP 40 NORTH, RANGE 13 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS.
PERMANENT TAX NUMBER: 13-36-218-006



SURVEYOR'S NOTE REGARDING TABLE A ITEM 17: NO KNOWN PROPOSED CHANGES IN RIGHT OF WAY LINES FOUND. NO EVIDENCE OF RECENT STREET OR SIDEWALK CONSTRUCTION OR REPAIRS OBSERVED IN THE PROCESS OF CONDUCTING THE FIELDWORK.
UTILITIES SHOWN HEREON ARE PER OBSERVED EVIDENCE TOGETHER WITH EVIDENCE FROM MARKINGS BY UTILITY COMPANIES AND OTHER APPROPRIATE SOURCES. SOURCE INFORMATION FROM MARKINGS HAS BEEN COMBINED WITH OBSERVED EVIDENCE OF UTILITIES TO DEVELOP A VIEW OF THOSE UNDERGROUND UTILITIES. HOWEVER, LACKING EXCAVATION, THE EXACT LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY, COMPLETELY AND RELIABLY DEPICTED. WHERE ADDITIONAL OR MORE DETAILED INFORMATION IS REQUIRED, THE CLIENT IS ADVISED THAT EXCAVATION AND/OR PRIVATE UTILITY LOCATE REQUEST MAY BE NECESSARY.

LEGEND FOR EXISTING TOPOGRAPHIC SYMBOLS

DRAINAGE MANHOLE	
CATCH BASIN	
INLET	
DECIDUOUS TREE	
MAIL BOX	
UTILITY TELEPHONE SPLICE BOX	
UTILITY POWER POLE	
UTILITY TRAFFIC SIGNAL	
UTILITY LIGHT POLE	
UTILITY FIRE HYDRANT	
UTILITY MANHOLE	
UTILITY TELEPHONE POLE	
UTILITY GUY ANCHOR	
ADVERTISING/ WARNING SIGN	
UTILITY HANDHOLE	
UTILITY SPLICE BOX	
UTILITY JUNCTION BOX	
UTILITY HEAVY DUTY HANDHOLE	
UTILITY DOUBLE HANDHOLE	
UTILITY CONTROLLER	
UTILITY WATER METER	
BOLLARD	
EXISTING AERIAL LINE	
EXISTING PLATFORM EXTENTS	
CTA RIGHTS	
ACQUISITION PROPERTY	
FENCE	
CTA TRACKS	

SUBDIVISION DESIGNATION

"L" - ALBERT LARSEN'S SUB. OF THE WESTERLY 70 FT. OF LOTS 23 & 24, IN BLK. 1 OF ATTRILLS SUB. OF CERTAIN LOTS IN BLK'S 2, 3 & 5 IN STAVE'S SUB. OF 53 ACRES OF THE N.E. 1/4 SEC. 36.40.13. REC. MAY 23, 1892. DOC. 1670049.

"T" - ATTRILLS SUB. OF PART OF BLK'S 2, 3 AND 5 IN STAVE'S SUB. IN N.E. 1/4 OF SEC 36.40.13. REC. JUNE 28, 1882. DOC. 404951.

KNOWN TITLE COMMITMENT ORDER NUMBER AEG-CO-20951.0 SCHEDULE B SECTION II (EXCEPTIONS) AFFECTING THE SUBJECT PARCEL.

4. RIGHTS OF THE PUBLIC, THE STATE, AND THE MUNICIPALITY, IN AND TO THAT PART OF THE LAND, IF ANY, TAKEN OR USED FOR ROAD PURPOSES.

9. RIGHT, TITLE, AND INTEREST OF THE CHICAGO TRANSIT AUTHORITY PURSUANT TO WARRANTY DEED RECORDED AS DOCUMENT 25495453.

NOTE PER TITLE: IT APPEARS THAT THIS DEED INTENDED TO CONVEY AIR RIGHTS.

Surveyor's Certification:

STATE OF ILLINOIS)
) S.S
COUNTY OF COOK)

To: Chicago Transit Authority
Fidelity National Title Insurance Company

This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2021 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes Items 1, 2, 3, 4, 5, 6A, 7(a), 7(b)(1), 8, 9, 11A, 13, 14, 16, 17, 18, and 19 from the ALTA/NSPS Land Title Surveys Table A thereof.

Dated at Chicago, IL. this _____ day of _____, 20___.

Atlas Engineering Group, LTD., Illinois Professtional Design Firm 174-00558-0014

_____
Roark V. Rogers
Illinois Professional Land Surveyor 35-3765
License Expires November 30, 2024
Field Work Completed: May 9, 2022

PROFESSIONAL LAND SURVEYOR · ROARK V. ROGERS · 03765 · DEERFIELD, ILLINOIS · STATE OF ILLINOIS

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SURVEY PREPARED BY:
AEG ATLAS ENGINEERING GROUP, LTD.
710 Estate Dr, Deerfield, IL 60015
847.733.8020 (office) | 847.733.8023 (fax)
Professional Design Firm License No. 184-005508

DATE: 08-09-2024
DRAWN BY: KB
DESIGN BY: RVR
REVIEWED BY: RVR

PREPARED FOR
Chicago Transit Authority
567 W. Lake Street
Chicago, Illinois 60661

REVISIONS		
NO.	DATE	DESCRIPTION
1	9/30/2024	LEGAL
2	09/09/2024	COMPANY ADDRESS

ALTA/NSPS SURVEY

LOT 2
ALBERT LARSEN'S SUBDIVISION

SHEET 1 OF 1

HNTB
HNTB Corporation
One South Wacker Drive, Suite 900
Chicago, Illinois 60606
(312) 930-9119

CHICAGO TRANSIT AUTHORITY
ENGINEERING

SENSITIVE SECURITY INFORMATION

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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	
APPROVED BY	
CHECKED BY	
DESIGNED BY	
DRAWN BY	

MARK	DATE	DESCRIPTION
0	12/30/24	ISSUE FOR BID

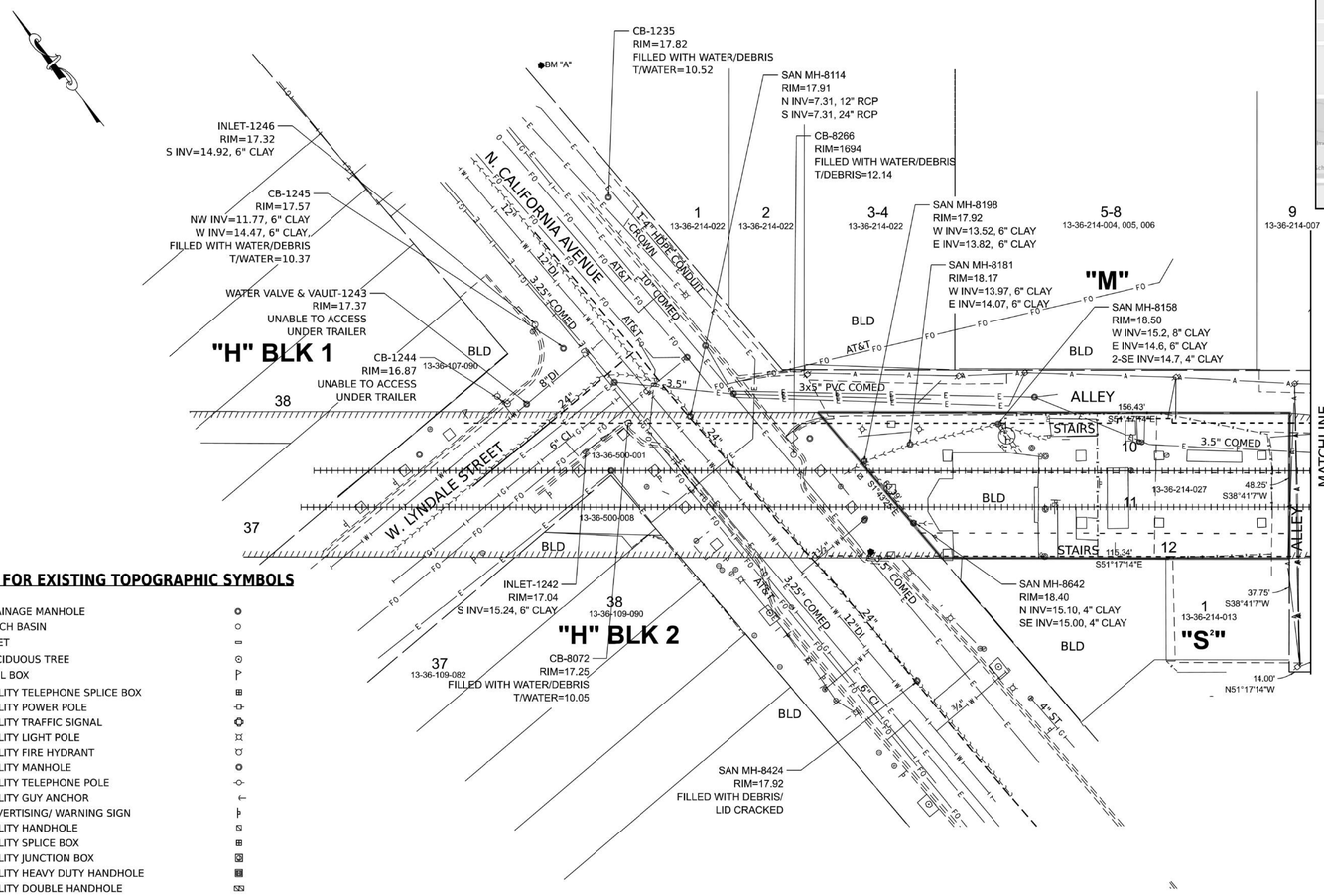
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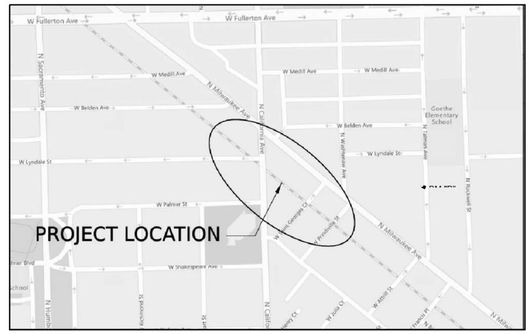
LSCAL V-103

VOLUME: X OF X

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PLAT OF SURVEY





KEY MAP

LEGAL DESCRIPTION

THAT PART OF LOT 37 CONDEMNED FOR ELEVATED RAILROAD IN BLOCK 2 IN J, JOHNSTON JR.'S SUB. OF 10 ACRES IN THE NE 1/4 OF THE NW 1/4 OF SEC.36-40-13. RECORDED NOV. 28, 1881 AS DOCUMENT 361265. (PERMANENT TAX NUMBER: 13-36-500-008)

TOGETHER WITH LOTS 10, 11 AND THE NORTHEASTERLY 8.25 FEET OF THAT PART OF LOT 12 IN JOHN MCASSAY'S RESUB. OF LOTS 26, TO 29 BLK 2 OF LEWIS SHAVE'S. SUB. OF THE S.W. PART OF THE NE 1/4 OF SEC. 36-40-13. RECORDED AUG. 18,1874 AS DOCUMENT 176190. (PERMANENT TAX NUMBER: 13-36-214-027)

TOGETHER WITH LOTS 8 AND PART LOT 7 BEING THE SOUTHWESTERLY 9.75 FEET OF THE NORTHWESTERLY 55 FEET AND THE SOUTHWESTERLY 2.25 FEET LYING EASTERLY OF THE NORTHWESTERLY 55 FEET; AND PART OF LOT 9 BEING THE NORTHEASTERLY 3.25 FEET THEREOF AND ALSO BEING THE SOUTHWESTERLY 8.50 FEET OF THE NORTHEASTERLY 11.75 FEET OF THE NORTHWESTERLY 55 FEET THEREOF) IN W. 0. COLES SUBDIVISION OF LOTS 22 TO 25 IN BLOCK 2 AND OF OTHER PARTS OF BLOCKS 2, 3 AND 5 IN STAVE'S SUBDIVISION OF THAT PART SOUTHWEST OF MILWAUKEE AVENUE OF THE NORTHEAST 1/4 OF SECTION 36, TOWNSHIP 40 NORTH, RANGE 13, EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS.

AND INCLUDING THE FOLLOWING: ALL RIGHTS, TITLE AND INTEREST IN AND TO THE AIRSPACE ABOVE A HORIZONTAL PLANE LOCATED AT 28 FEET CHICAGO CITY DATUM, WHICH HORIZONTAL PLANE IS HORIZONTAL WITH THE SURFACE OF THE NORTHEASTERLY 3 FEET OF THE SOUTHWESTERLY 5.25 FEET (EXCEPT THE NORTHWESTERLY 55 FEET THEREOF) OF SUB-LOT 7 ALL IN W. 0. COLES SUBDIVISION AFORESAID. (PERMANENT TAX NUMBER: 13-36-500-010)

TOGETHER WITH LOTS 1 AND THE NORTHEASTERLY 2.75 FEET THAT PART LOT 2 IN POWELL'S SUB. OF LOTS 12 TO 15 OF IN GREYS SUB. OF 8ACRES E. OF AND ADJOINING THE W. 25 ACRES E. OF MILWAUKEE AVE. IN THE NE ▯ OF SEC.36-40-13 RECORDED FEB. 5, 1874 AS DOCUMENT 145509. (PERMANENT TAX NUMBER: 13-36-500-011)

TOGETHER WITH THE RIGHTS, TITLE , AND INTEREST OF THE CHICAGO TRANSIT AUTORITY. THE NORTHWESTERLY 55 FEET OF SOUTHWESTLY 3 FEET OF THE NORTHEASTERLY 5.75 FEET OF LOT 2, ALL IN ALBERT LARSENS SUBDIVISION OF PART OF LOTS 23 AND 24 IN BLOCK 1 IN ATTRILLS SUBDIVISION OF THE NORTH EAST QUARTER OF SECTION 36, TOWNSHIP 40 NORTH, RANGE 13 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS.

TOGETHER WITH LOT 24 AND THE NORTHEASTERLY 2.50 FEET OF THAT PART OF LOT 23 IN ATTRA SUB. OF PART OF BLOCK'S 2, 3, AND 5 OF STAVES SUB, IN NW ¼ OF SEC.36-40-13, RECORDED JUNE 28, 1882 AS DOCUMENT 404951. (PERMANENT TAX NUMBER: 13-36-500-012)

TOGETHER WITH THE RIGHTS GRANTED IN AND TO THE CHICAGO STREET RIGHT OF WAYS. (PERMANENT TAX NUMBER: 13-36-500-001)

ALL SITUATED IN THE COUNTY OF COOK AND STATE OF ILLINOIS.

0 20 40 60
SCALE IN FEET

LEGEND FOR EXISTING TOPOGRAPHIC SYMBOLS

DRAINAGE MANHOLE	○
CATCH BASIN	○
INLET	▭
DECIDUOUS TREE	⊙
MAIL BOX	⊢
UTILITY TELEPHONE SPLICE BOX	⊞
UTILITY POWER POLE	⊸
UTILITY TRAFFIC SIGNAL	⊙
UTILITY LIGHT POLE	⌑
UTILITY FIRE HYDRANT	♉
UTILITY MANHOLE	⊙
UTILITY TELEPHONE POLE	⊸
UTILITY GUY ANCHOR	←
ADVERTISING/ WARNING SIGN	⊦
UTILITY HANDHOLE	⊠
UTILITY SPLICE BOX	⊞
UTILITY JUNCTION BOX	⊠
UTILITY HEAVY DUTY HANDHOLE	▣
UTILITY DOUBLE HANDHOLE	⊠
UTILITY CONTROLLER	⊠
UTILITY WATER METER	○
BOLLARD	○
EXISTING UNDERGROUND FIBRE OPTIC	FO
EXISTING UNDERGROUND STORM SEWER	
EXISTING UNDERGROUND SANITARY SEWER	
EXISTING UNDERGROUND WATER MAIN	W
EXISTING UNDERGROUND GAS MAIN	G
EXISTING UNDERGROUND ELECTRIC	E
EXISTING AERIAL LINE	A
EXISTING PLATFORM EXTENTS	
CTA RIGHTS	
CTA PROPERTY	
FENCE	
CTA TRACKS	

SURVEY PREPARED BY:
AEG ATLAS ENGINEERING GROUP, LTD.
710 Estate Dr, Deerfield, IL 60015
847.753.8020 (office) | 847.753.8023 (fax)
Professional Design Firm License No. 184-005508
DATE: 08-09-2024
DRAWN BY: KB
DESIGN BY: RVR
REVIEWED BY: RVR

PREPARED FOR
Chicago Transit Authority
567 W. Lake Street
Chicago, Illinois 60661

REVISIONS		
NO.	DATE	DESCRIPTION
1	9/06/2024	LEGAL
2	09/09/2024	ADD COLUMNS

PLAT OF SURVEY
CALIFORNIA STATION IN
LOGAN SQUARE NEIGHBORHOOD

SHEET 1 OF 2

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HNTB
HNTB Corporation
One South Wacker Drive, Suite 900
Chicago, Illinois 60606
(312) 930-9119

CHICAGO TRANSIT AUTHORITY
ENGINEERING

SENSITIVE SECURITY INFORMATION

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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
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DESIGNED BY	
DRAWN BY	

MARK	DATE	DESCRIPTION
0	12/30/24	ISSUE FOR BID

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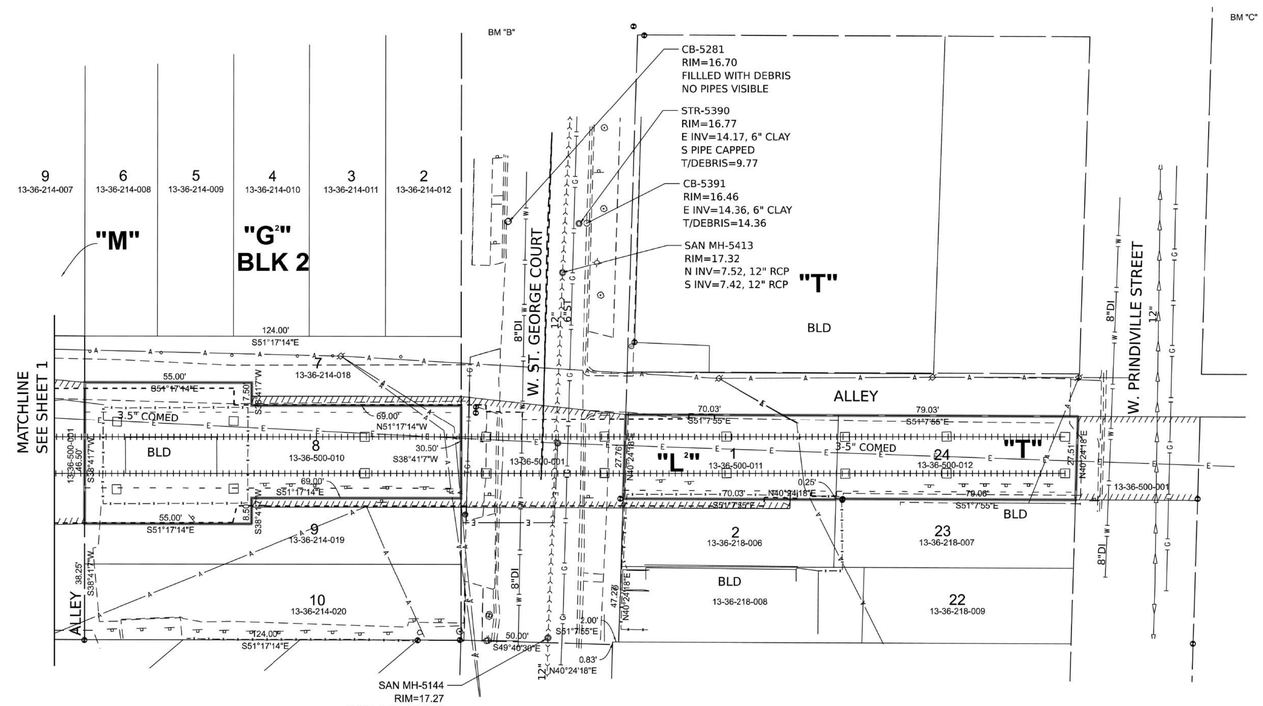
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FILE NAME: O:\Engineer\00 PROJECTS\1037 CTA\SV 001\002_TO 4_ASAP Logan Square Line California Station\11 Deliverables\8-5-2024_working\CAD\LSCAL_V_SV_TO 4_Logomaxsure_SHT-PLAT - rev1.dgn

PLAT OF SURVEY



SUBDIVISION DESIGNATIONS

"G" - W.O. COLE'S SUB. OF LOTS 22-25 & 30-35 IN BLK. 2 AND LOTS 7-12, 19-26 & 34-36 IN BLK. 3 AND LOTS 7-12 & 19-26 IN BLK. 5 IN STAVE'S SUB. OF PART OF N.E. ¼ OF SEC. 36-40-13. REC. MAY 13, 1872. DOC. 30384.

"H" - J. JOHNSTON JR.'S SUB. OF 10 ACS. IN THE NE. ¼ NW ¼ SEC. 36. REC. NOVEMBER 28TH. 1881. B. 16, P. 50. DOC. #361265.

"L" - ALBERT LARSEN'S SUB. OF THE WESTERLY 70 FT. OF LOTS 23 & 24, IN BLK. 1 OF ATTRILLS SUB. OF CERTAIN LOTS IN BLK'S 2, 3 & 5 IN STAVE'S SUB. OF 53 ACRES OF THE N.E. ¼ SEC. 36.40.13. REC. MAY 23, 1892. DOC. 1670049.

"M" - JOHN McASSEY'S RESUB. OF LOTS 26 TO 29 BLK.2 OF LEWIS STAVE'S SUB. OF THE S.W. PART OF THE N.E. ¼ SEC. 36.40.13. REC. AUGUST 18, 1874. DOC. 176190.

"S" - SUBDIVISION LOT 12 (EXC. THE N.E.LY 8¾ FT. THEREOF) & LOT 13 IN JOHN McASSEY'S RESUB. OF LOTS 11, 12 & 13 IN W.O. COLE'S SUB. OF LOTS 22 TO 25 BOTH INCL. & 30 TO 35 BOTH INCL. IN BLK. 2 OF SAID STAVE'S SUB. REC. JUNE 26, 1913. DOC. 5215341

"T" - ATTRILLS SUB. OF PART OF BLK'S 2, 3 AND 5 IN STAVE'S SUB. IN N.E. ¼ OF SEC 36.40.13. REC. JUNE 28, 1882. DOC. 404951.

SURVEYOR'S NOTES:

1. RECORD BEARINGS AND DISTANCES SHOWN HEREON ARE BASED ON SUBDIVISION PLAT OF RECORD. MEASURED BEARINGS AND COORDINATES, IF INDICATED, ARE NAD83 (R.2011) DATUM, ESTABLISHED LOCALLY BY GPS/RTK LOCATIONS. NO DISTANCES SHALL BE ASSUMED BY SCALING. DISTANCES ALONG CURVES ARE ARC DISTANCES UNLESS OTHERWISE NOTED.

2. BENCHMARKS:
   SITE BENCHMARK
   CCD 533 ELEVATION=18.645

   BM "A" SET CUT CROSS IN SIDEWALK AT SOUTHEAST CORNER OF MILWAUKEE AVENUE AND N. CALIFORNIA AVENUE.
   ELEVATION=17.975

   BM "B" SET CUT CROSS IN SIDEWALK AT SOUTHWEST CORNER OF MILWAUKEE AVENUE AND W. ST. GEORGES COURT.
   ELEVATION=17.455

   BM "C" FOUND CROSS IN SIDEWALK AT SOUTHEAST CORNER OF MILWAUKEE AVENUE AND W. PRINDIVILLE STREET.
   ELEVATION=17.755

3. ABOVEGROUND AND UNDERGROUND UTILITIES ARE A PART OF THIS SURVEY THE UTILITY SURVEY HAS BEEN COMPLETED TO "ATTRIBUTE QUALITY LEVEL C" AS SPECIFIED IN THE "STANDARD GUIDELINE FOR COLLECTION AND DEPICTION OF EXISTING UTILITY DATA" (AMERICAN SOCIETY OF CIVIL ENGINEERS, CI/ASCE 38-02) WHICH INCLUDE SURFACE INDICATIONS OF UTILITIES VISIBLE AT THE TIME OF SURVEY, INCLUDING RIM AND INVERT ELEVATIONS, PIPE SIZES, ETC., AND REVIEW OF PUBLIC UTILITY INFORMATION OBTAINED VIA INFORMATION REQUEST FROM THE OFFICE OF UNDERGROUND COORDINATION. OVERHEAD WIRES ARE EXISTING AND THEIR POLES HAVE BEEN SHOWN, HOWEVER THEIR FUNCTION AND DIMENSIONS HAVE NOT BEEN NOTED.

4. ONLY THE IMPROVEMENTS THAT WERE VISIBLE FROM ABOVE GROUND AT TIME OF SURVEY AND THROUGH A NORMAL SEARCH AND WALK THROUGH OF THE SITE ARE SHOWN ON THE FACE OF THIS PLAT. LAWN SPRINKLER SYSTEMS, IF ANY, ARE LIMITED TO ELEMENTS THAT ARE READILY APPARENT AT THE SURFACE. THIS SURVEY MAY NOT REFLECT ALL UTILITIES, OR IMPROVEMENTS, IF SUCH ITEMS ARE HIDDEN BY LANDSCAPING, OR ARE COVERED BY SUCH ITEMS AS DUMPSTERS OR TRAILERS, FALLEN LEAVES, DEBRIS OR SNOW.

5. OTHER THAN VISIBLE OBSERVATIONS NOTED HERON, THIS SURVEY MAKES NO STATEMENT REGARDING THE ACTUAL PRESENCE OR ABSENCE OF ANY SERVICE OR UTILITY LINE. CONTROLLED UNDERGROUND EXPLORATORY EFFORT TOGETHER WITH "DIGGER" MARKINGS IS RECOMMENDED TO DETERMINE THE FULL EXTENT OF UNDERGROUND SERVICE AND UTILITY LINES.
   CONTACT DIGGER AT 1-312-744-7000.

Surveyor's Certification:

STATE OF ILLINOIS)
) S.S
COUNTY OF COOK)

I, Roark V. Rogers, an Illinois Professional Land Surveyor, hereby certify that the property hereon described was surveyed under my supervision and that the plat hereon drawn is a representation of said survey.
This professional service conforms to the current Illinois Minimum Standards for a Boundary Survey.
Dated at Chicago, IL. this _____ day of _____, 20__.

Atlas Engineering Group, LTD., Illinois Professtional Design Firm 174-00558-0014

_____
Roark V. Rogers
Illinois Professional Land Surveyor 35-3765
License Expires November 30, 2024
Field Work Completed: May 9, 2022

PROFESSIONAL LAND SURVEYOR ROARK V. ROGERS 03765 DEERFIELD, ILLINOIS STATE OF ILLINOIS

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0 20 40 60
SCALE IN FEET

SURVEY PREPARED BY:
AEG ATLAS ENGINEERING GROUP, LTD.
710 Estate Dr, Deerfield, IL 60015
847.753.8020 (office) | 847.753.8023 (fax)
Professional Design Firm License No. 184-005508

DATE: 08-09-2024 DRAWN BY: KB DESIGN BY: RVR REVIEWED BY: RVR

PREPARED FOR:
Chicago Transit Authority
567 W. Lake Street
Chicago, Illinois 60661

REVISIONS		
NO.	DATE	DESCRIPTION
1	09/09/2024	ADD COLUMNS

PLAT OF SURVEY

CALIFORNIA STATION IN
LOGAN SQUARE NEIGHBORHOOD

SHEET 2 OF 2

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One South Wacker Drive, Suite 900
Chicago, Illinois 60606
(312) 930-9119

CHICAGO TRANSIT AUTHORITY
ENGINEERING

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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	
APPROVED BY	
CHECKED BY	
DESIGNED BY	
DRAWN BY	

MARK	DATE	DESCRIPTION
0	12/30/24	ISSUE FOR BID

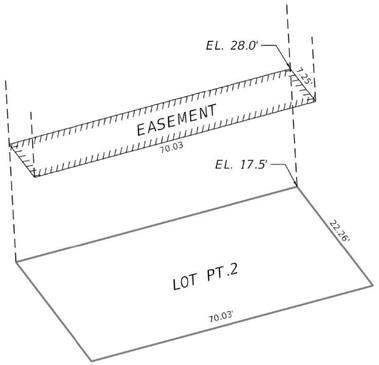
PAGE 5

LSCAL V-105

VOLUME: X OF X

MODEL: PLAT_SHT-2 [Sheet]
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LSCAL-V-105.dgn

PLAT OF EASEMENT

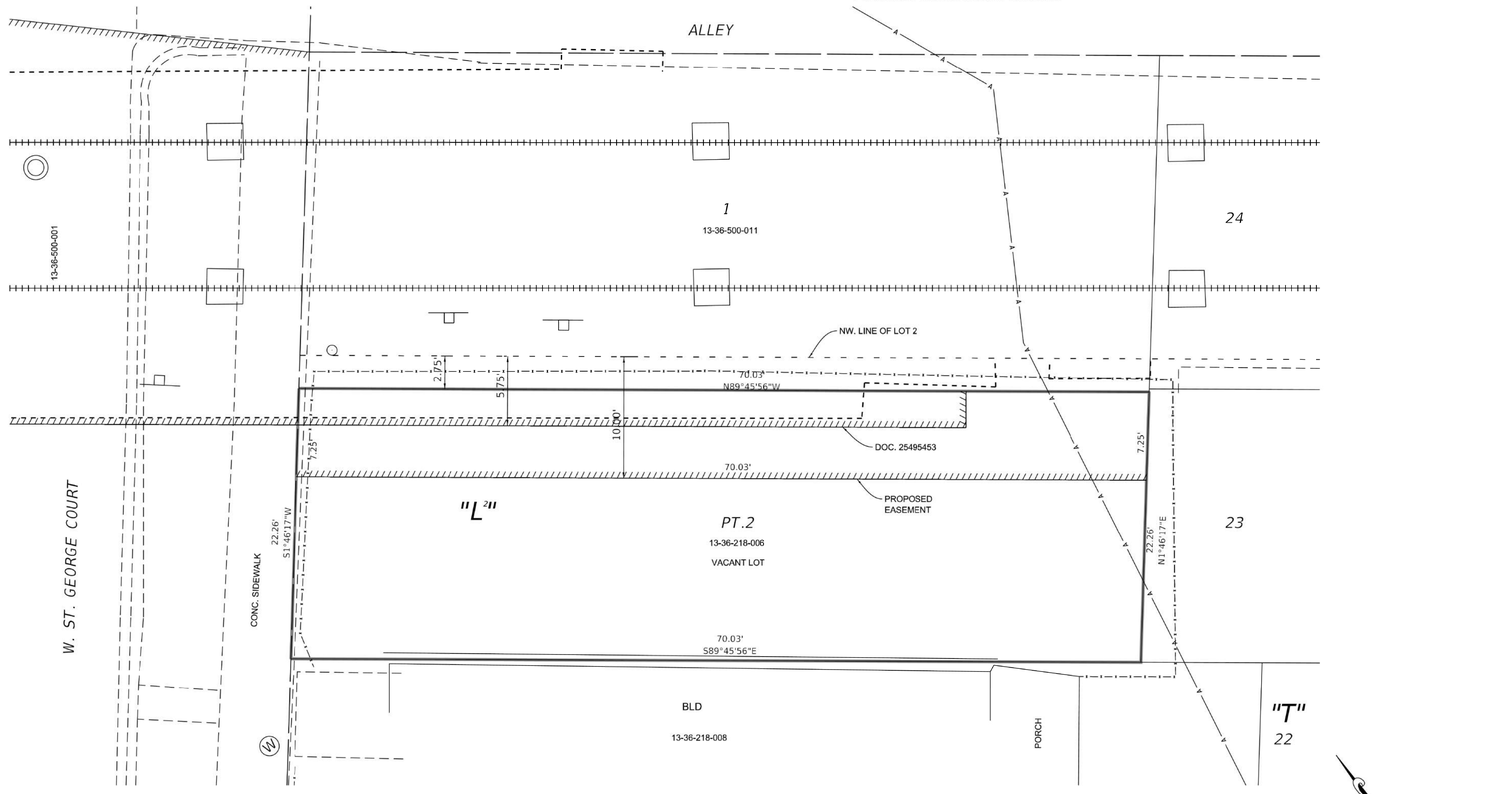


3 DIMENSIONAL VIEW

LEGAL DESCRIPTION

All RIGHTS, TITLE AND INTEREST IN AND TO THE AIRSPACE ABOVE THE HORIZONTAL PLANE OF 28 FEET CHICAGO BASE DATUM, WHICH HORIZANTAL SURFACE IS HORIZONTAL WITH THE SURFACE OF THE NORTHWESTERLY 10 FEET , EXCEPT THE NORTHWESTERLY 2.75 FEET OF LOT 2 OF THE FOLLOWING: IN ALBERT LARSEN'S SUBDIVISION OF PART OF LOTS 23 AND 24 IN BLOCK 1 IN ATTRILL'S SUBDIVISION OF PART OF BLOCKS 2, 3, AND 5 IN STAVE'S SUBDIVISION OF THAT PART SOUTHWEST OF MILWAUKEE AVENUE OF THE NORTHEAST 1/4 OF SECTION 36, TOWNSHIP 40 NORTH, RANGE 13, EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS.
TOGETHER WITH THE RIGHTS, TITLE , AND INTEREST OF THE CHICAGO TRANSIT AUTORITY PURSUANT TO WARRANTY DEED RECORDED AS DOCUMENT 25495453. THE NORTHWESTERLY 55 FEET OF SOUTHWESTLY 3 FEET OF THE NORTHEASTERLY 5.75 FEET OF LOT 2, ALL IN ALBERT LARSENS SUBDIVISION OF PART OF LOTS 23 AND 24 IN BLOCK 1 IN ATTRILLS SUBDIVISION OF THE NORTH EAST QUARTER OF SECTION 36, TOWNSHIP 40 NORTH, RANGE 13 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS.

PERMANENT TAX NUMBER: 13-36-218-006



SUBDIVISION DESIGNATION

"L" - ALBERT LARSEN'S SUB. OF THE WESTERLY 70 FT. OF LOTS 23 & 24, IN BLK. 1 OF ATTRILLS SUB. OF CERTAIN LOTS IN BLK'S 2, 3 & 5 IN STAVE'S SUB. OF 53 ACRES OF THE N.E. 1/4 SEC. 36.40.13. REC. MAY 23, 1892. DOC. 1670049.

"T" - ATTRILLS SUB. OF PART OF BLK'S 2, 3 AND 5 IN STAVE'S SUB. IN N.E. 1/4 OF SEC 36.40.13. REC. JUNE 28, 1882. DOC. 404951.

KNOWN TITLE COMMITMENT ORDER NUMBER AEG-CO-20951.0 SCHEDULE B SECTION II (EXCEPTIONS) AFFECTING THE SUBJECT PARCEL.

4. RIGHTS OF THE PUBLIC, THE STATE, AND THE MUNICIPALITY, IN AND TO THAT PART OF THE LAND, IF ANY, TAKEN OR USED FOR ROAD PURPOSES.

9. RIGHT, TITLE, AND INTEREST OF THE CHICAGO TRANSIT AUTHORITY PURSUANT TO WARRANTY DEED RECORDED AS DOCUMENT 25495453.

NOTE PER TITLE: IT APPEARS THAT THIS DEED INTENDED TO CONVEY AIR RIGHTS.

LEGEND FOR EXISTING TOPOGRAPHIC SYMBOLS

EXISTING AERIAL LINE	A A
EXISTING PLATFORM EXTENTS	
CTA RIGHTS	
ACQUISITION PROPERTY	
FENCE	
CTA TRACKS	

Surveyor's Certification:

STATE OF ILLINOIS)
) S.S
COUNTY OF COOK)

I, Roark V. Rogers, an Illinois Professional Land Surveyor, hereby certify that the property hereon described was surveyed under my supervision and that the plat hereon drawn is a representation of said survey.
This professional service conforms to the current Illinois Minimum Standards for a Boundary Survey.
Dated at Chicago, IL. this _____ day of _____, 20__

Atlas Engineering Group, LTD., Illinois Professtional Design Firm 174-00558-0014

_____
Roark V. Rogers
Illinois Professional Land Surveyor 35-3765
License Expires November 30, 2024
Field Work Completed: May 9, 2022

PROFESSIONAL LAND SURVEYOR ROARK V. ROGERS 03765 DEERFIELD, ILLINOIS STATE OF ILLINOIS

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SURVEY PREPARED BY:
AEG ATLAS ENGINEERING GROUP, LTD.
710 Estate Dr, Deerfield, IL 60015
847.753.8020 (office) | 847.753.8023 (fax)
Professional Design Firm License No. 184-005508

DATE: 05-15-2024
DRAWN BY: KB
DESIGN BY: RVR
REVIEWED BY: RVR

PREPARED FOR
Chicago Transit Authority
567 W. Lake Street
Chicago, Illinois 60661

REVISIONS

NO.	DATE	DESCRIPTION

PLAT OF EASEMENT

LOT 2
ALBERT LARSEN'S SUBDIVISION

SHEET 1 OF 1

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ENGINEERING

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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	
APPROVED BY	
CHECKED BY	
DESIGNED BY	
DRAWN BY	

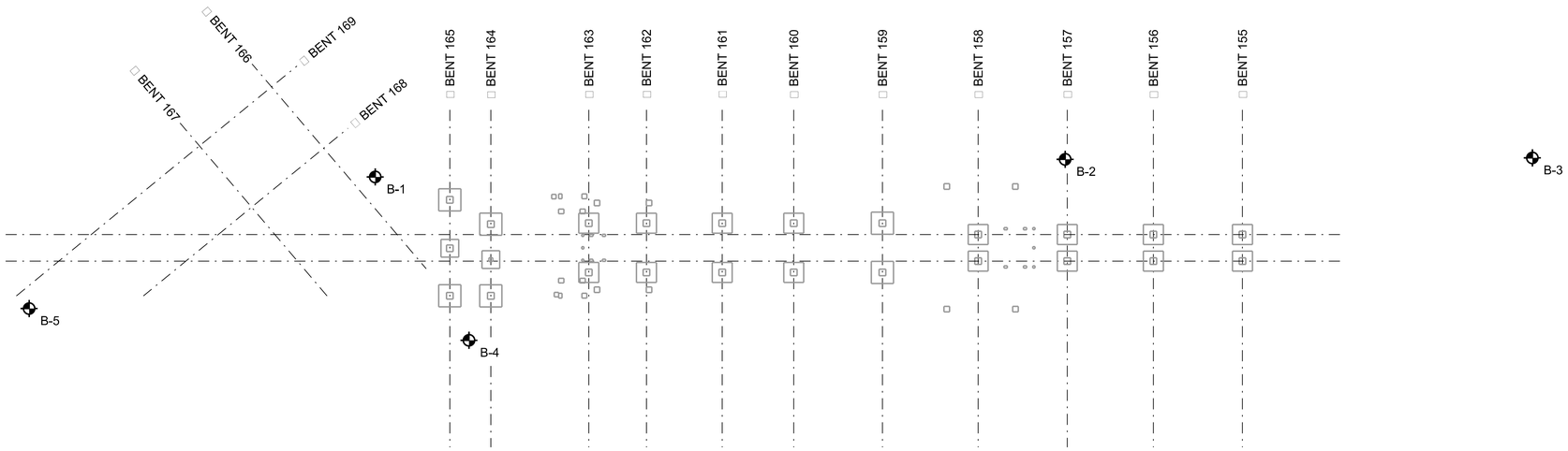
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0	12/30/24	ISSUE FOR BID

PAGE 6

LSCAL V-106

VOLUME: X OF X

PLOTTED ON: 11/5/2024 8:17:31 PM LSCAL-V-106.dgn
MODEL: ALTA-3
FILE NAME: Q:\Engineer\00 PROJECTS\1007 CTA\SV 001\002_TO 4_ASAP Logan Square Line California Station\11 Deliverables\8-5-2024_working\CADD\LSCAL_V_SV_TO 4_Logansquare_PLAT OF EASEMENT.dgn



1 / B-100 BORING LOCATION DIAGRAM

SCALE: 1/32"=1'-0"

NORTH

...\02_Sheets\030_LSCAL_B-100.dgn

PLOTTED ON: 11/5/2024 3:44:05 PM

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ALL STATIONS ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	
IN CHARGE	I. COLLETTI
APPROVED BY	S. LLURI
CHECKED BY	P. BUSCH
DESIGNED BY	S. HOANG
DRAWN BY	M. ROLKOWSKI

MARK	DATE	DESCRIPTION
0	12/30/24	ISSUE FOR BID

BORING LOCATION DIAGRAM

LSCAL B-100

VOLUME: X OF X

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Aviva Cir. Suite 204
Naperville, Illinois 60565
(630) 305-3586

GEO Job No. 20012

SOIL BORING LOG

Page 1 of 2

Date 6/21/22

PROJECT CTA, Logan Square California Station

LOCATION 2211 N. California Ave.

COUNTY Cook **DRILLING METHOD** HSA/Rotary **HAMMER TYPE** CME Automatic

CLIENT HNTB

BORING NO. B-1
Northing 1914922
Easting 1157363
Ground Surface Elev. 18.2 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry to -10.0' ft
Upon Completion n/a ft
After - Hrs. n/a ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	DCP (pcf)
17.2			7	
4.0" ASPHALT, 6.0" CONCRETE				
	3			
CLAY with Gravel- very stiff (CL)	2 3	3.50 P	19	
15.7				
	2			
CLAY- brown- stiff (CL)	3 2	1.50 P	22	
-5				
	2			
	4 3	2.00 P	23	
	2			
8.2 -10	2 3	1.50 P	24	
CLAY LOAM- brown & gray- very soft	0			
	0 0	0.25 P	28	
	1			
-15	0 1		29	
	0			
	1 2		31	
0.7				
SILTY CLAY with GRAVEL- gray- stiff to very stiff (CL)	4			
-20	5 8	4.50 P	15	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	DCP (pcf)
SILTY CLAY with GRAVEL- gray- stiff to very stiff (CL) *(continued)*				
	6			
	6 8	1.50 P	15	
	5			
-25	12 10	4.00 P	17	
	4			
	6 11	2.00 P	17	
	16			
-11.8 -30	11 14	2.50 P	17	
CLAY LOAM-gray-very stiff to hard (CL)				
	20			
-35	21 35		10	
	20			
-40	28 35	4.20 B	10	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206), GP-Geoprobe Hand Auger BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2020\12\20\12\20\12 HNTB, CTA LOGAN SQUARE CALIFORNIA STATION IMPROVEMENTS\2102\BORING LOGS\2102_LOG.GPJ 8/12/22

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Naperville, Illinois 60565
(630) 305-3586

GEO Job No. 20012

SOIL BORING LOG

Page 2 of 2

Date 6/21/22

PROJECT CTA, Logan Square California Station

LOCATION 2211 N. California Ave.

COUNTY Cook **DRILLING METHOD** HSA/Rotary **HAMMER TYPE** CME Automatic

CLIENT HNTB

BORING NO. B-1
Northing 1914922
Easting 1157363
Ground Surface Elev. 18.2 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry to -10.0' ft
Upon Completion n/a ft
After - Hrs. n/a ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	DCP (pcf)
CLAY LOAM-gray-very stiff to hard (CL) *(continued)*				
-22.8				
Drillers Observation: Apparent Bedrock				
-25.3				
Borehole continued with rock coring.				
-45				
-50				
-55				
-60				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206), GP-Geoprobe Hand Auger BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2020\12\20\12\20\12 HNTB, CTA LOGAN SQUARE CALIFORNIA STATION IMPROVEMENTS\2102\BORING LOGS\2102_LOG.GPJ 8/12/22

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Geotechnical, Environmental & Civil Engineering
805 Aviva Cir. Suite 204
Naperville, Illinois 60565
(630) 305-3586

GEO Job No. 20012

SOIL BORING LOG

Page 1 of 1

Date 6/14/22

PROJECT CTA, Logan Square California Station

LOCATION 2211 N. California Ave.

COUNTY Cook **DRILLING METHOD** HSA/Rotary **HAMMER TYPE** CME Automatic

CLIENT HNTB

BORING NO. B-2
Northing 1914734
Easting 1157611
Ground Surface Elev. 17.8 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion n/a ft
After - Hrs. n/a ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	DCP (pcf)
16.8			6	
4.0" ASPHALT, 8.0" SAND & GRAVEL				
	2			
CLAY LOAM-brown & gray-stiff (CL)	1 3	1.00 P	23	
	2			
-5	3 5	1.50 P	25	
	1			
10.3	2 2	1.25 P	26	
CLAY LOAM-brown & gray-soft (CL)	1			
-10	1 3	0.50 P	27	
	1			
	2 2	0.25 P	28	
	2			
-15	2 2	0.25 P	27	
	1			
	1 2	0.25 P	27	
	1			
-2.2 -20	1 3	0.25 P	30	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	DCP (pcf)
SILTY CLAY LOAM-gray-stiff to very stiff (CL)				
	1			
	10 13	1.50 P	24	
	6			
-25	4 16	4.50 P	11	
	5			
	8 13	4.50 P	16	
	7			
-12.2 -30	11 16	4.50 P	12	
End Of Boring @ -30.0'. Boring backfilled with cuttings.				
-35				
-40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206), GP-Geoprobe Hand Auger BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2020\12\20\12\20\12 HNTB, CTA LOGAN SQUARE CALIFORNIA STATION IMPROVEMENTS\2102\BORING LOGS\2102_LOG.GPJ 8/12/22

HNTB
HNTB Corporation
One South Wacker Drive, Suite 2500
Chicago, Illinois 60606
(312) 930-9119

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ENGINEERING

SENSITIVE SECURITY INFORMATION

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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	
IN CHARGE	I. COLLETTI
APPROVED BY	S. LLURI
CHECKED BY	P. BUSCH
DESIGNED BY	S. HOANG
DRAWN BY	M. ROLKOWSKI

MARK	DATE	DESCRIPTION
0	12/30/24	ISSUE FOR BID

BORING LOGS - 1

LSCAL | B-101

VOLUME: X OF X

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Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Aviman Court, Suite 204
Naperville, Illinois 60565
(630) 305-3595

GEO Job No. 20012

SOIL BORING LOG

Page 1 of 1

Date 6/14/22

PROJECT CTA, Logan Square California Station

LOCATION 2211 N. California Ave.

COUNTY Cook **DRILLING METHOD** HSA/Rotary **HAMMER TYPE** CME Automatic

CLIENT HNTB

BORING NO. B-3
Northing 1914603
Easting 1157776
Ground Surface Elev. 17.9 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter -8.1 ft
Upon Completion n/a ft
After - Hrs. n/a ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	DRY (pcf)
17.0				
4.0" ASPHALT, 6.0" CONRCRETE				
	7		1	
CLAY with GRAVEL-brown & gray-very stiff (CL)	1 3	2.50 P	20	
15.4				
CLAY LOAM-brown & gray-stiff to very stiff (CL)	2			
-5	4 5	1.25 P	31	
	2			
	3 5	2.50 P	23	
	2			
7.9 -10	5 7	1.50 P	24	
CLAY LOAM-gray-very soft (CL)	1			
	3 2	0.25 P	27	
	0			
-15	0 3	0.25 P	24	
	0			
0.4	2 2	0.25 P	28	
SILTY CLAY-gray-stiff to very stiff (CL)	5			
-20	5 5	1.50 P	15	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	DRY (pcf)
SILTY CLAY-gray-stiff to very stiff (CL) *(continued)*	8			
	11 11	4.50 P	21	
-4.6				
CLAY LOAM-gray-stiff to very stiff (CL)	3			
-25	9 13	4.50 P	13	
	8			
	9 11	1.50 P	16	
	4			
-12.1 -30	9 15	1.50 P	18	
End Of Boring @ -30.0'. Boring backfilled with cuttings.				
-35				
-40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206), GP-Geoprobe Hand Auger BBS, from 137 (Rev. 8-99)

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Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Aviman Court, Suite 204
Naperville, Illinois 60565
(630) 305-3595

GEO Job No. 20012

SOIL BORING LOG

Page 1 of 2

Date 6/15/22

PROJECT CTA, Logan Square California Station

LOCATION 2211 N. California Ave.

COUNTY Cook **DRILLING METHOD** HSA/Rotary **HAMMER TYPE** CME Automatic

CLIENT HNTB

BORING NO. B-4
Northing 1914838
Easting 1157350
Ground Surface Elev. 18.2 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry to -10.0' ft
Upon Completion n/a ft
After - Hrs. n/a ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	DRY (pcf)
4.0" ASPHALT, 6.0" CONCRETE				
17.2			1	
CRUSHED CONCRETE- Loose (Fill)	7			
15.7	3 6		4	
SILTY CLAY- brown & gray- soft (CL)	1			
	1 1	0.50 P	26	
13.2 -5				
CLAY LOAM- gray- medium stiff (CL)	0			
	1 1	1.00 P	27	
	0			
8.2 -10	0 1	0.50 P	29	
SILTY CLAY- gray- medium stiff (CL)	2			
	2 1	0.75 P	19	
5.7				
CLAY- gray- soft (CL)	0			
-15	0 1	0.50 P	29	
	0			
	1 1	0.50 P	30	
0.7				
SILTY CLAY- gray- very stiff	1			
-1.8 -20	1 7	2.50 P	21	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	DRY (pcf)
CLAYEY SILT- gray- medium dense (CL)	9			
	10 10		23	
-4.3				
SILTY LOAM- gray- hard (CL)	5			
-25	7 9	4.50 P	14	
	4			
	6 11	4.50 P	17	
CLAY LOAM- gray- hard (CL)	5			
-11.8 -30	9 12	4.50 P	14	
SILTY CLAY- gray- very stiff to hard (CL)				
-35	10 16	4.00 P	18	
	12			
-40	30 24	4.50 P	11	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206), GP-Geoprobe Hand Auger BBS, from 137 (Rev. 8-99)

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(630) 305-3595

GEO Job No. 20012

SOIL BORING LOG

Page 2 of 2

Date 6/15/22

PROJECT CTA, Logan Square California Station

LOCATION 2211 N. California Ave.

COUNTY Cook **DRILLING METHOD** HSA/Rotary **HAMMER TYPE** CME Automatic

CLIENT HNTB

BORING NO. B-4
Northing 1914838
Easting 1157350
Ground Surface Elev. 18.2 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry to -10.0' ft
Upon Completion n/a ft
After - Hrs. n/a ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	DRY (pcf)
SILTY CLAY- gray- very stiff to hard (CL) *(continued)*				
-25.3	50/0			
Drillers Observation: Apparent Bedrock			NR	
-45				
Borehole continued with rock coring.				
-50				
-55				
-60				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206), GP-Geoprobe Hand Auger BBS, from 137 (Rev. 8-99)

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HNTB

HNTB Corporation
One South Wacker Drive, Suite 2500
Chicago, Illinois 60606
(312) 930-9119

CHICAGO TRANSIT AUTHORITY
ENGINEERING

SENSITIVE SECURITY INFORMATION

WARNING: THIS RECORD CONTAINS SENSITIVE SECURITY INFORMATION THAT IS CONTROLLED UNDER 49 CFR PARTS 15 AND 1520. NO PART OF THIS RECORD MAY BE DISCLOSED TO PERSONS WITHOUT A "NEED TO KNOW" AS DEFINED IN CFR PARTS 15 AND 1520, EXCEPT WITH THE WRITTEN PERMISSION OF THE ADMINISTRATOR OF THE TRANSPORTATION SECURITY ADMINISTRATION OR THE SECRETARY OF TRANSPORTATION. UNAUTHORIZED RELEASE MAY RESULT IN CIVIL PENALTY OR OTHER ACTION. FOR U.S. GOVERNMENT AGENCIES, PUBLIC DISCLOSURE IS GOVERNED BY 5 U.S.C. 552 AND 49 CFR PARTS 15 AND 1520.

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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	
IN CHARGE	I. COLLETTI
APPROVED BY	S. LLURI
CHECKED BY	P. BUSCH
DESIGNED BY	S. HOANG
DRAWN BY	M. ROLKOWSKI

MARK	DATE	DESCRIPTION
0	12/30/24	ISSUE FOR BID

BORING LOGS - 2

LSCAL B-102

VOLUME: X OF X

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Aimhirst Court, Suite 204
Naperville, Illinois 60565
(630) 305-3926

GEO Job No. 20012

SOIL BORING LOG

Page 1 of 1

Date 6/15/22

PROJECT CTA, Logan Square California Station

LOCATION 2211 N. California Ave.

COUNTY Cook **DRILLING METHOD** HSA/Rotary **HAMMER TYPE** CME Automatic

CLIENT HNTB

BORING NO. B-5
Northing 1914973
Easting 1157204
Ground Surface Elev. 17.6 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter -10.4 ft ▼
Upon Completion n/a ft
After - Hrs. n/a ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	DRY DENSITY (pcf)
4.0" ASPHALT, 6.0" CONCRETE				
16.7				
CLAY LOAM-brown & black-loose (CL)	6			
	4 4		1	
15.1				
CLAY- brown & gray-stiff (CL)	2			
	4 5	1.00 P	21	
-5				
	2			
	3 3	1.50 P	23	
10.1				
CLAY LOAM-brown & gray-stiff (CL)	3			
	3 5	1.50 P	22	
-10				
	2			
	2 3	1.00 P	24	
5.1				
CLAY-gray-soft (CL)	2			
	2 3	0.25 P	28	
-15				
	2			
	2 2	0.25 P	28	
	3			
-2.4 -20	7 11	0.50 P	28	
SILTY CLAY LOAM-gray-stiff (CL)	5			
	8 11	1.25 P	15	
-4.9				
CLAY LOAM-gray-very stiff to hard (CL)	7			
	8 11	3.50 P	12	
-25	6			
	10 15	4.50 P	16	
-9.9				
SILTY CLAY-gray-hard ▼	9			
	10 14	4.50 P	11	
-12.4 -30				
End Of Boring @ -30.0'. Boring backfilled with cuttings.				
-40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206), GP-Geoprobe Hand Auger
BBS, from 137 (Rev. 8-99)

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HNTB Corporation
One South Wacker Drive, Suite 2500
Chicago, Illinois 60606
(312) 930-9119

CHICAGO TRANSIT AUTHORITY
ENGINEERING

SENSITIVE SECURITY INFORMATION

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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	
IN CHARGE	I. COLLETTI
APPROVED BY	S. LLURI
CHECKED BY	P. BUSCH
DESIGNED BY	S. HOANG
DRAWN BY	M. ROLKOWSKI

MARK	DATE	DESCRIPTION
0	12/30/24	ISSUE FOR BID

BORING LOGS - 3

LSCAL | B-103

VOLUME: X OF X

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GENERAL NOTES

1. THE CONTRACTOR MUST FOLLOW ALL PROVISIONS SET FORTH IN THE DRAWINGS AND SPECIFICATIONS.

2. ALL CONSTRUCTION MUST BE PERFORMED IN ACCORDANCE WITH THE CITY OF CHICAGO RULES AND REGULATIONS FOR CONSTRUCTION IN THE PUBLIC WAY, LATEST EDITION; ILLINOIS DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION; THE LATEST EDITION OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS; THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS"; CONCRETE WORK IN ACCORDANCE WITH ACI 318, LATEST EDITION; STRUCTURAL STEEL WORK IN ACCORDANCE WITH AISC, LATEST EDITION; AND THE DETAILS AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.

3. PLAN DIMENSIONS, ELEVATIONS, CONDITIONS, AND DETAILS RELATIVE TO EXISTING STRUCTURES WERE OBTAINED FROM EXISTING PLANS AND SURVEY, AND ARE SUBJECT TO VARIATIONS. IT MUST BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS, ELEVATIONS, CONDITIONS, AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATION MUST NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF WORK.

4. THE CONTRACTOR MUST CALL 811 (D.I.G.G.E.R.) 48 HOURS PRIOR TO CONSTRUCTION FOR CONFIRMATION OF CURRENT UTILITY LOCATIONS. TEL. (312) 744-7000. THE CONTRACTOR MUST ALSO NOTIFY ALL UTILITY COMPANIES FOR FIELD LOCATIONS OF THEIR FACILITIES PRIOR TO BEGINNING CONSTRUCTION. EXISTING UTILITIES ARE SHOWN BASED ON BEST AVAILABLE INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION.

5. THE CONTRACTOR MUST PROTECT NEW AND EXISTING UTILITIES FROM DAMAGE BY METHODS APPROVED BY THE C.T.A. AND WILL BE RESPONSIBLE FOR MAINTENANCE AND PRESERVATION OF THESE FACILITIES. THE CONTRACTOR MUST PROPERLY BRACE AND SUPPORT THE UTILITIES TO PREVENT SETTLEMENT, DISPLACEMENT OR CHANGE TO THE UTILITIES. ANY AND ALL DAMAGE TO EXISTING FACILITIES MUST BE REPAIRED TO THE SATISFACTION OF THE UTILITY OWNER AT THE CONTRACTOR'S EXPENSE. THE COST OF THIS WORK WILL BE CONSIDERED INCLUDED IN THE CONTRACT.

6. THE CONTRACTOR IS REQUIRED TO OBTAIN ANY NECESSARY PERMITS AND WRITTEN AUTHORIZATIONS FROM THE CITY OF CHICAGO, OUC, CDOT, IDOT, OR OTHER AFFECTED AGENCIES.

7. ALL WORK MUST BE CONDUCTED IN ACCORDANCE WITH OSHA REQUIREMENTS AND CITY OF CHICAGO REGULATIONS AND STANDARDS AND MUST CONFORM IN ALL RESPECTS TO ALL STATE AND FEDERAL LAWS AND REGULATIONS. THE CONTRACTOR IS REQUIRED TO ALSO COMPLY WITH ALL REGULATIONS REGARDING AIR, WATER, AND NOISE POLLUTION. OPEN BURNING IS NOT ALLOWED ON THE CONSTRUCTION SITE. THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" LATEST EDITION, AND ALL ADDENDA THERETO, AND CITY OF CHICAGO CONSTRUCTION STANDARDS FOR WORK IN THE PUBLIC WAY MUST GOVERN THE EARTHWORK AND PAVING WORK UNDER THIS CONTRACT. CITY OF CHICAGO STANDARDS MUST TAKE PRECEDENCE OVER DETAILS ON THE CIVIL STANDARD DETAIL DRAWINGS IN THE EVENT THAT A CONFLICT IS FOUND.

8. THE CONTRACTOR MUST MAINTAIN THE SURFACE DRAINAGE DURING CONSTRUCTION. THE CONTRACTOR MUST PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE AND PUBLIC DRAINS, SEWERS AND CATCH BASINS WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED. THE CONTRACTOR MUST PROVIDE FACILITIES TO TAKE IN ALL STORM WATER WHICH WILL BE RECEIVED BY THESE DRAINS AND SEWERS AND DISCHARGE THE SAME. THE CONTRACTOR MUST PROVIDE AND MAINTAIN AN EFFICIENT PUMPING PLANT, IF NECESSARY, AND A TEMPORARY OUTLET, AND BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER RECEIVED FROM TEMPORARY CONNECTIONS UNTIL SUCH TIME AS THE PERMANENT CONNECTIONS WITH THE SEWERS ARE BUILT AND IN SERVICE. ALL PUMPING MUST ENTER A SETTLING BASIN SYSTEM, APPROVED BY THE C.T.A., BEFORE PASSING INTO THE EXISTING DRAINAGE SYSTEM. THIS WORK MUST BE INCLUDED IN THE CONTRACT.

9. THE CONTRACTOR MUST USE CARE NEAR ANY AND ALL EXISTING ITEMS WHICH ARE NOT INDICATED TO BE REMOVED. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR'S OPERATIONS MUST BE REPAIRED TO THE OWNER'S SATISFACTION BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE.

10. TRAFFIC CONTROL: THE CONTRACTOR MUST PROVIDE ALL NECESSARY TRAFFIC CONTROL DEVICES AS REQUIRED BY THE CHICAGO DEPARTMENT OF TRANSPORTATION AND ILLINOIS DEPARTMENT OF TRANSPORTATION, AS REQUIRED, TO OBTAIN ALL NECESSARY PERMITS.

11. THE CONTRACTOR MUST DETERMINE DETAILED STAGING PLANS COORDINATING WORK AND WORK HOURS.

12. CONTRACTOR TO ENSURE ACCESS TO RESIDENTIAL AND COMMERCIAL PROPERTIES AT ALL TIMES.

13. DUTY TO INDEMNIFY: THE CONTRACTOR MUST DEFEND, INDEMNIFY, KEEP AND SAVE HARMLESS THE MUNICIPALITY, OWNER AND ENGINEER, AND THEIR RESPECTIVE BOARD MEMBERS, REPRESENTATIVES, AGENTS, AND EMPLOYEES, IN BOTH INDIVIDUAL AND OFFICIAL CAPACITIES, AGAINST ALL SUITS, CLAIMS, DAMAGES, LOSSES, AND EXPENSES, INCLUDING ATTORNEY'S FEES, CAUSED BY, GROWING OUT OF, OR INCIDENTAL TO THE PERFORMANCE OF THE CONTRACT BY THE CONTRACTOR AND ITS SUBCONTRACTORS TO THE FULL EXTENT AS ALLOWED BY THE LAWS OF THE STATE OF ILLINOIS AND NOT BEYOND ANY EXTENT WHICH WOULD RENDER THESE PROVISIONS VOID AND UNENFORCEABLE. THIS OBLIGATION INCLUDES BUT IS NOT LIMITED TO: ILLINOIS LAWS REGARDING STRUCTURAL WORK (IL. REV. STA. CH.48, PAR.60 AT SEQ.) AND REGARDING THE PROTECTION OF ADJACENT LANDOWNERS (IL. REV. STA. CH.17-1/2, PAR.51 AT SEQ.). IN THE EVENT THAT SUCH INJURY (INCLUDING DEATH) OR LOSS OR DAMAGE, OF CLAIMS THEREFORE, OR CLAIMS THEREFORE, THE CONTRACTOR MUST GIVE PROMPT NOTICE TO THE OWNER.

14. ALL EXISTING SEWERS AND UTILITY LINES HAVE BEEN SHOWN ON THE PLANS ON THE BASIS OF AVAILABLE INFORMATION. HOWEVER, NO GUARANTEE CAN BE GIVEN AS TO THE EXACT LOCATION OR NUMBER OF UTILITIES THAT MAY BE ENCOUNTERED. THE CONTRACTOR MUST BE RESPONSIBLE FOR DETERMINING THE EXISTENCE, NATURE, AND EXACT LOCATION OF ALL SEWERS AND UTILITIES WITHIN THE LIMITS OF THIS IMPROVEMENT. THE COST OF THIS WORK MUST BE INCIDENTAL TO THE CONTRACT.

15. ALL MATERIAL REMOVED MUST BE DISPOSED OF LEGALLY.

16. THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION." LATEST EDITION, AND ALL ADDENDA THERETO, AND CITY OF CHICAGO CONSTRUCTION STANDARDS FOR WORK IN THE PUBLIC WAY SHALL GOVERN THE PAVING WORK UNDER THIS CONTRACT.

17. THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS," LATEST EDITION, SHALL GOVERN THE UNDERGROUND WORK UNDER THIS CONTRACT, EXCEPT AS MODIFIED BY THE SPECIFICATIONS, OR WHERE IN CONFLICT WITH CITY OF CHICAGO STANDARDS.

18. ALL WORK SHALL BE CONDUCTED IN ACCORDANCE WITH OSHA REQUIREMENTS AND CITY OF CHICAGO REGULATIONS AND STANDARDS AND SHALL CONFORM IN ALL RESPECTS TO ALL STATE AND FEDERAL LAWS AND REGULATIONS.

19. THE CONTRACTORS SHALL NOTIFY ALL UTILITY COMPANIES FOR FILED LOCATIONS OF THEIR FACILITIES PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE MAINTENANCE AND PRESERVATION OF THESE FACILITIES. ANY UTILITY LOCATIONS SHOWN ON THE PLANS ARE BASED ON AVAILABLE RECORDS AND ARE FOR GENERAL DIRECTION ONLY. THE CONTRACTOR MUST FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES.

20. ALL UTILITY TRENCHES UNDER AND WITHIN TWO FEET OF PAVEMENT, SIDEWALK, CURB AND GUTTER, ETC. SHALL BE BACKFILLED WITH CA-6 CRUSHED STONE (GRADE 8 OR 9), COMPACTED IN 9" LIFTS TO 95%OF MODIFIED PROCTOR.

21. UTILITY CONNECTIONS WITHIN THE STREET RIGHT-OF-WAY SHALL BE ACCOMPLISHED BY SAW CUTTING AND REMOVING THE EXISTING PAVEMENT. EXISTING PAVEMENT, SIDEWALK, OR CURB TO BE REMOVED SHALL BE SAWCUT TO FULL DEPTH AND EDGES SHALL BE STRAIGHT AND UNIFORM. BACKFILL AND RESTORATION SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CHICAGO DEPT. OF TRANSPORTATION.

22. VERTICAL ELEVATIONS IN THESE PLANS ARE SHOWN IN NAVD88 DATUM. THE CONVERSION FACTOR BETWEEN THE CITY OF CHICAGO DATUM (CCD) AND NAVD 88 FOR THIS PROJECT HAS BEEN ESTABLISHED AS: CCD=NAVD88 - 579.19'.

23. ALL CONTRACTORS, SUBCONTRACTORS AND THEIR AFFILIATES WORKING ON THIS PROPERTY SHALL OBSERVE AND COMPLY WITH ALL APPLICABLE SAFETY REQUIREMENTS (OSHA). CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL SAFETY REQUIREMENTS, PROCEDURES, METHODS, AND PROGRAMS.

24. WHENEVER A PERMANENT SECURITY BARRIER, FENCE OR GATE IS TO BE REMOVED AS PART OF THE WORK AND SUCH REMOVAL WOULD PERMIT UNAUTHORIZED ACCESS TO CTA RIGHT-OF-WAYS OR PROPERTY, THE CONTRACTOR SHALL MAINTAIN SECURITY MEASURES EQUIVALENT TO THE PROTECTION AFFORDED BY THE EXISTING PERMANENT BARRIER, FENCE OR GATE ON A 24 HOUR A DAY BASIS UNTIL SUCH TIME AS THE CONSTRUCTION ON THE PERMANENT BARRIER, FENCE OR GATE IS COMPLETED.

25. EXISTING CTA SIGNAL HUT SERVICE EQUIPMENT AND CONDUITS TO BE REMOVED OR RELOCATED BY CTA FORCES PRIOR TO START OF CONSTRUCTION.

26. EXISTING SIGNAL EQUIPMENT THAT MAY REQUIRE REMOVAL OR RELOCATION TO BE COORDINATED WITH CTA. CTA FORCES TO PERFORM ALL REMOVAL OR RELOCATION UNLESS GIVEN WRITTEN APPROVAL.

27. CONTRACTOR TO IDENTIFY ANY EXISTING EQUIPMENT, CONDUITS, OR SERVICES THAT MAY BE IN CONFLICT WITH CONSTRUCTION ACTIVITIES AND IMPACT CTA SERVICE PRIOR TO THE START OF CONSTRUCTION. ANY EQUIPMENT THAT MAY BE IMPACTED OR CAUSE DISRUPTION TO CTA SERVICE TO BE COORDINATED WITH CTA.

28. CTA FORCES TO PERFORM ANY NECESSARY SIGNAL IMPROVEMENTS FOR THE STAGED CONDITIONS AND FINAL PROPOSED CONDITION. CONTRACTOR TO NOTIFY CTA PRIOR TO STARTING CONSTRUCTION ACTIVITIES AND VERIFY IF AND WHERE IMPROVEMENTS ARE NECESSARY.

29. CONTRACTOR TO MATCH EXISTING PAVEMENT ELEVATIONS AT LOCATIONS WHERE PROPOSED IMPROVEMENTS MEET EXISTING CONDITIONS.

UTILITY NOTES

1. CONTRACTOR SHALL MAINTAIN AND SUPPORT DUCT BANKS, MANHOLES AND VAULTS WHERE REQUIRED.

2. CONTRACTOR SHALL INSTALL AND SUPPORT TEMPORARY SPLIT DUCTS, MANHOLES AND VAULTS WHEN EXISTING FACILITIES CANNOT BE MAINTAINED.

3. CONTRACTOR SHALL CONSTRUCT NEW DUCTS (INCLUDING SPLIT DUCT TO BE RETAINED), MANHOLES AND VAULTS, WHERE REQUIRED.

4 CONTRACTOR SHALL PROVIDE CONCRETE FOUNDATION BENEATH FACILITIES MAINTAINED IN PLACE OR CONSTRUCTED ON COMPACT FILL.

5. CONTRACTOR SHALL FURNISH ALL CONDUIT (SPLIT OR WHOLE), SPACERS, COUPLINGS AND END BELLS.

6. CONTRACTOR SHALL FURNISH CONCRETE ENCASEMENT AROUND ALL PERMANENT DUCT SYSTEMS INCLUDING SPLIT DUCT BEING RETAINED.

7. CONTRACTOR SHALL EXERCISE CAUTION WHEN WORKING IN THE VICINITY OF AND INSTALLING SUPPORT SYSTEMS FOR PIPE-TYPE CABLES. THE SUPPORTING SYSTEM SHALL BE DESIGNED TO MECHANICALLY SUPPORT THESE PIPES, BUT ALSO TO PROTECT THE "SOMATIC" COATING AROUND PIPES FROM PUNCTURE AND VIBRATIONAL DAMAGE.

8. CONTRACTOR SHALL PROVIDE SPECIAL BACKFILL AROUND PIPE CONDUIT CARRYING HIGH VOLTAGE CABLE.

9. IF REQUIRED THE BUREAU OF ELECTRICITY, DEPARTMENT OF STREETS AND SANITATION, CITY OF CHICAGO WILL DISCONNECT AND REMOVE WIRING AND ABOVEGROUND EQUIPMENT FROM THE EXISTING STREET LIGHTING SYSTEM, TRAFFIC CONTROL SYSTEM, POLICE AND FIRE ALARM SYSTEMS AND FROM INTERIM INSTALLATIONS OF THESE SYSTEMS WHEN FINAL SYSTEMS ARE PLACED IN SERVICE. IT WILL FURNISH AND INSTALL WIRING AND ABOVEGROUND EQUIPMENT FOR INTERIM AND FINAL STREET LIGHTING, TRAFFIC CONTROL, AND FIRE AND POLICE ALARM SYSTEMS. ALL METHODS OF ATTACHMENT TO CTA AERIAL STRUCTURE REQUIRE CTA APPROVAL PRIOR TO INSTALLATION.

10. LOCATIONS THAT THE CONTRACTOR WILL REMOVE EXISTING UNDERGROUND EQUIPMENT THAT IS NOT USABLE IN ITS LOCATION AS PART OF THE INTERIM OR FINAL SYSTEMS ARE NOTED IN THE CONTRACT PLANS. THE CONTRACTOR WILL PROVIDE PERMANENT SUPPORT FOR UNDERGROUND EQUIPMENT RE-USED IN THE FINAL ARRANGEMENT AND WILL FURNISH AND INSTALL NEW UNDERGROUND EQUIPMENT AS REQUIRED TO COMPLETE THE INTERIM AND FINAL ARRANGEMENT.

11. TEMPORARY STREET LIGHTING USED DURING CONSTRUCTION, IF REQUIRED, SHALL CONFORM TO THE REQUIREMENTS OF THE CITY BUREAU OF ELECTRICITY, DEPARTMENT OF STREETS AND SANITATION OF THE CITY OF CHICAGO.

12. ANY PERMANENT STREET LIGHTING SHALL BE REPLACED WITH THE LATEST DESIGN OF STREET LIGHTING AND TRAFFIC SIGNS AS APPROVED BY THE CITY BUREAU OF ELECTRICITY. FURNISHING AND INSTALLING PERMANENT BELOW GROUND EQUIPMENT IS INDICATED ON THE CONTRACT PLANS. FURNISHING AND INSTALLING PERMANENT LIGHT POLES, LUMINARIES AND WIRING WILL BE DONE BY THE CITY OF CHICAGO. POWER FOR STREET LIGHTING WILL NOT BE SUPPLIED BY THE AUTHORITY.

13. IF REQUIRED, TRAFFIC SIGNALS WILL BE REMOVED AND REPLACED BY THE CITY OF CHICAGO. CHANGES IN SIGNAL LOCATION OR PHASING, BOTH TEMPORARY AND PERMANENT, WILL BE DONE BY THE CITY OF CHICAGO. TEMPORARY LOCATION FOR THESE FACILITIES WILL BE DEVELOPED DURING THE DESIGN PHASE AS REQUIRED BY THE CONSTRUCTION STAGING AND APPROVED BY THE CITY BUREAU OF ELECTRICITY.

14. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL AND ULTIMATELY REMOVE THE COMPLETE TEMPORARY STREET LIGHT FACILITY, INCLUDING CONDUITS AND STANDARDS INDICATED IN THE CONTRACT DOCUMENTS TO BE PLACED DURING THE CONSTRUCTION PROJECT.

15. IF REQUIRED, FIRE AND POLICE CALL BOXES WILL BE REMOVED AND REPLACED BY THE CITY OF CHICAGO. CHANGES IN CALL BOX LOCATIONS WILL BE DONE BY THE CITY OF CHICAGO. TEMPORARY LOCATIONS FOR THESE FACILITIES WILL BE DEVELOPED DURING THE DESIGN PHASE AS REQUIRED BY THE CONSTRUCTION STAGING.

16. THE CONTRACT DOCUMENTS INDICATE WHICH TELEPHONE LINES ARE TO BE MAINTAINED COMPLETE IN PLACE; WHICH DUCTS ARE TO BE REMOVED; CABLES TEMPORARILY SUPPORTED AND, UPON COMPLETION OF WORK, REPLACED BY A NEW SYSTEM OF DUCTS AND CABLES; AND ANY REROUTING OR NEW CONSTRUCTION. ABANDONED LINES AND THOSE TO BE ABANDONED ARE ALSO INDICATED.

17. DRAINAGE STRUCTURE SIZE IS INDICATED IN THE CONTRACT DOCUMENTS. CONCRETE MAY BE USED INSTEAD OF BRICK. PIPES AND CONDUITS SHALL BE TEMPORARILY SUPPORTED AND, UPON COMPLETION OF WORK, PLACED ON COMPACTED BACKFILL.

18. SUPPORT OF OVERHEAD UTILITY LINES, INCLUDING POLES, APPURTENANCES, AND SERVICES SHALL BE PROVIDED BY THE CONTRACTOR.

19. COMMONWEALTH EDISON CO. (COMED) WILL REMOVE AND RELOCATE ALL ELECTRICAL EQUIPMENT, WIRE AND CABLE AS REQUIRED, FURNISH AND INSTALL ALL NEW ELECTRICAL EQUIPMENT, WIRE AND CABLE AND CONSTRUCT NEW MANHOLES AND DUCTS AS REQUIRED. THE UTILITY WILL FURNISH EQUIPMENT AND SUPPLIERS FOR USE IN VAULTS AND MANHOLES. THE CONTRACTOR SHALL REMOVE DEACTIVATED MANHOLES AND DUCTS IN THE PROJECT AREA. THE UTILITY WILL INSPECT ANY WORK ON ITS FACILITIES DONE BY THE CONTRACTOR INCLUDING TEMPORARY SUPPORT ARRANGEMENTS FOR EXISTING FACILITIES. THE CTA AND COMED HAVE AN ELECTRIC SERVICE AGREEMENT OF AUGUST 1, 1958 AS AMENDED, WHICH GOVERNS THE RESPONSIBILITIES OF EACH PARTY UPON THE ACTIVATION OF SERVICE, PURSUANT TO CTA OPERATION.

20. ALL WORK THROUGHOUT THE TRANSIT SYSTEM ON OR ADJACENT TO GAS LINES SHALL COMPLY WITH STANDARDS OF THE GAS COMPANY HAVING JURISDICTION AND THE GAS TRANSMISSION AND DISTRIBUTION STANDARDS OF THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS.

21. THE UTILITIES WILL REMOVE AND RELOCATE CABLES, EQUIPMENT AND WIRING AS REQUIRED AND WILL FURNISH AND INSTALL NEW EQUIPMENT ACCESSORIES. THE CONTRACTOR SHALL REMOVE DEACTIVATED MANHOLES AND DUCTS IN THE PROJECT AREA. THE UTILITIES WILL INSPECT ANY WORK ON THEIR FACILITIES DONE BY THE CONTRACTOR INCLUDING TEMPORARY SUPPORT ARRANGEMENTS FOR EXISTING FACILITIES.

22. ABANDONMENT, RELOCATION, RESTORATION, AND EXTENSION OF OVERHEAD UTILITY LINES, POLES, AND APPURTENANCES, INCLUDING SERVICE LINES TO ADJOINING PROPERTIES, WILL BE PERFORMED BY THE OWNERS IN ACCORDANCE WITH LAWS AND REGULATIONS OF THE CONCERNED JURISDICTION, OWNERS' STANDARDS, AND THE NATIONAL ELECTRICAL SAFETY CODE.

23. PROTECTION AND SUPPORT OF OVERHEAD UTILITY LINES, INCLUDING POLES, APPURTENANCES, AND SERVICES SHALL BE PROVIDED BY THE CONTRACTOR.

24. THE CONTRACTOR SHALL IDENTIFY THE PRESENCE OF UTILITY LINES, INCLUDING DRAINS AND CULVERTS, CROSSING RIGHT-OF-WAY BELOW AT-GRADE AND EMBANKMENT SECTIONS OF CTA, SHALL BE INDICATED ON THE SITE BY MARKERS PLACED AT THE POINTS WHERE THE CENTERLINE OF THE UTILITIES INTERSECT THE BOUNDARIES OF THE RIGHT-OF-WAY. MARKERS SHALL IDENTIFY EACH UTILITY, ITS OWNER, CTA ROUTE, AND SURVEY STATION AND DEPTH. TYPICALLY, MARKERS SHALL BE PLACED JUST INSIDE OF CTA FENCES, WITH THE FACE OF TARGETS PARALLEL WITH AND FACING THE ADJOINING TRACK. THEY SHALL NOT ENCROACH ON SAFETY WALKS, CLEARANCE AREAS, DITCHES, AND SERVICE ROADS. WHEN CIRCUMSTANCES PREVENT MARKERS BEING PLACED ON THE CENTERLINE OF THE UTILITY, THEY SHALL BE PLACED AS CLOSE THERETO AS PRACTICABLE WITH THE DIRECTION AND OFFSET FROM MARKER TO UTILITY. THE DEPTH OF UTILITIES SHALL BE INDICATED ON MARKER TARGETS TO THE NEAREST 0.5'. WHETHER THE MARKER IS ON THE CENTERLINE OF THE UTILITY OR OFFSET THERE FROM, THE DEPTH SHALL BE THAT FROM THE SURFACE ABOVE THE INSTALLATION TO THE TOP OF THE FACILITY.

25. OVERHEAD UTILITY WORKS WILL NORMALLY BE ACCOMPLISHED BY THE UTILITY INVOLVED AT NO COST TO THE CONTRACTOR. ANY ADDITIONAL WORK PERFORMED BY THE OWNER FOR THE CONVENIENCE OF THE CONTRACTOR SHALL BE ARRANGED BY THE CONTRACTOR AT NO EXPENSE TO THE CTA.

26. UTILITIES ENCOUNTERED OR CLOSE ENOUGH TO BE AFFECTED BY TRANSIT CONSTRUCTION SHALL BE: SUPPORTED AND MAINTAINED COMPLETE IN PLACE DURING CONSTRUCTION AND CONTINUED IN SERVICE FOLLOWING COMPLETION OF TRANSIT FACILITIES, TEMPORARILY RELOCATED AND MAINTAINED, THEN, UPON COMPLETION OF TRANSIT FACILITIES, RESTORED TO SERVICE, TEMPORARILY RELOCATED AND MAINTAINED, THEN, UPON COMPLETION OF TRANSIT FACILITIES, REPLACED BY A NEW UTILITY, OR PERMANENTLY RELOCATED TO A NEW LOCATION BEYOND THE IMMEDIATE LIMITS OF TRANSIT CONSTRUCTION.

27. UTILITY SERVICE TO ABUTTING PROPERTIES SHALL NOT BE INTERRUPTED AND, IF TEMPORARILY RELOCATED, SHALL BE RESTORED UPON COMPLETION OF WORK. REPLACEMENTS FOR ANY EXISTING UTILITIES, INCLUDING GOVERNMENTAL FACILITIES AND PAVEMENTS SHALL BE DESIGNED TO PROVIDE SERVICE ESSENTIALLY EQUAL TO THAT OFFERED BY THE EXISTING INSTALLATIONS.

28. ALL SUPPORT, MAINTENANCE, RELOCATION AND RESTORATION OF ELECTRIC LINES THROUGHOUT THE CTA SYSTEM SHALL BE IN STRICT CONFORMANCE WITH CURRENT PRACTICES OF THE ELECTRICAL CODE OF THE CONCERNED JURISDICTIONS AND AGENCIES, AND THE NATIONAL ELECTRIC SAFETY CODE.

29. ALL MAINTENANCE, RELOCATION, RESTORATION, AND CONSTRUCTION OF SEWERS AND DRAINAGE FACILITIES SHALL BE IN STRICT CONFORMANCE WITH THE CURRENT SPECIFICATIONS AND PRACTICES OF THE CONCERNED AGENCIES IN THE AFFECTED JURISDICTIONS

30. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING THE ACCURACY AND CORRECTNESS OF THE SIZE AND LOCATION OF EXISTING UTILITY FACILITIES SHOWN IN THE CONTRACT DOCUMENTS. UTILITY FACILITIES INCLUDE ALL ASSOCIATED EQUIPMENT AND STRUCTURES OWNED OR CONTROLLED BY A UTILITY INCLUDING ANY ASSOCIATED LAND RIGHTS. UTILITY FACILITIES WITHIN OR AFFECTED BY THE CONSTRUCTION ACTIVITIES SHALL BE MAINTAINED IN SERVICE DURING THE VARIOUS CONSTRUCTION STAGES IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE UTILITY, APPLICABLE STATUTES AND CODES.

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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	S. LASHOCK
CHECKED BY	J. SCHAEFER
DESIGNED BY	S. LASHOCK
DRAWN BY	L. SPARBER

MARK	DATE	DESCRIPTION
0	12/30/24	ISSUE FOR BID

CIVIL GENERAL NOTES
1 OF 2

LSCAL | C-001

VOLUME: X OF X

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UTILITY NOTES

31. AS DICTATED BY SPACE LIMITATIONS OR COST, RELOCATE ELECTRIC FACILITIES TO AREAS OUTSIDE THE LIMITS OF CTA EXCAVATION AND ITS SYSTEM OF TRENCH SUPPORT.

32. TEMPORARILY SUPPORT ELECTRIC FACILITIES TO BE MAINTAINED IN SERVICE UNTIL SUCH TIME AS REPLACEMENT FACILITIES SHALL BE PROVIDED, EITHER WITHIN OR BEYOND THE LIMITS OF CTA EXCAVATION. REMOVE EXISTING DUCT STRUCTURES AND MANHOLES WHERE CABLES IN THESE FACILITIES ARE TO BE KEPT IN SERVICE DURING AND AFTER CONSTRUCTION OF CTA. PROVIDE TEMPORARY SPLIT DUCT SYSTEMS AND MANHOLES TO SERVE THE SAME UTILITY FUNCTION AS EXISTING FACILITIES WITH RESPECT TO ACCESSIBILITY, MANHOLE SIZE, AND REQUIRED NUMBER OF DUCTS AND STRUCTURE PROTECTION FOR EQUIPMENT, CABLE AND MEN. THE NUMBER OF TEMPORARY DUCTS WILL BE MINIMIZED BY COORDINATION WITH THE UTILITY TO ASSURE UTILIZATION OF MAXIMUM TEMPORARY CAPACITY WITHOUT UNNECESSARY SPARE DUCTS.

33. SPLIT DUCT WHEN ENCASED FOR PERMANENT RETENTION SHALL REPRESENT A STRAIGHT-RIGID CONDUIT LINE AS IS PRACTICAL WITHOUT BENDS OR CURVES. GENERALLY, SPLIT DUCT WILL ONLY BE ACCEPTABLE FOR RETAINED FACILITIES UP TO A MINIMUM OF FOUR DUCTS HOUSING SECONDARY, STREET LIGHT, AND/OR TRAFFIC SIGNAL CABLES.

34. PIPE LINES CARRYING HIGH-VOLTAGE LINES SHALL BE SUPPORTED DURING CONSTRUCTION. UPON COMPLETION OF WORK, PIPES SHALL BE PERMANENTLY SUPPORTED ON COMPACTED BACKFILL AND SURROUNDED BY THERMALLY ACCEPTABLE SAND.

35. WHEN CIRCUMSTANCES JUSTIFY, RELOCATED OR MAINTAINED UTILITIES MAY BE PERMANENTLY SUPPORTED ON CONCRETE POSTS TIED TO THE ROOF OF THE CTA STRUCTURE. EACH SUCH POSTING, HOWEVER, MUST BE SEPARATELY APPROVED BY THE AUTHORITY.

36. METALLIC PORTIONS OF UTILITY FACILITIES SHALL BE BONDED OR OTHERWISE PROTECTED IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 14, CORROSION CONTROL, AND THE REQUIREMENTS OF THE UTILITIES. PORTIONS OF EXISTING METALLIC SYSTEMS, SUCH AS ABANDONED PIPES OR RAIL, THAT MAY CARRY ELECTRIC CURRENT SHALL NOT BE CUT AND/OR REMOVED WITHOUT ADEQUATE BONDING OR OTHER ACTION AS REQUIRED BY CHAPTER 14.

37. CONTRACTOR TO CLEAN ALL SEWERS AND EXISTING STRUCTURES ENSURING ADEQUATE.

38. ALL NEW CATCH BASINS DISCHARGING DIRECTLY INTO A COMBINED SANITARY AND STORM SEWER SYSTEM SHALL HAVE HALF TRAP CONNECTIONS.

39. ALL NEW CATCH BASINS SHALL HAVE A MINIMUM 3 FOOT SUMP TO CAPTURE DEBRIS AND/OR BALLAST PRIOR TO DISCHARGING INTO DOWNSTREAM SEWER SYSTEM.

COMED NOTES

1. FOR WORK AROUND OVERHEAD WIRES: CITY CONTRACTORS ARE REQUESTED TO TAKE EXTRA PRECAUTIONS WHEN WORKING NEAR COMED OVERHEAD WIRES. THESE WIRES ARE NOT INSULATED, TO HAVE THEM INSULATED PLEASE CONTACT 1-800-EDISON-1 AND CONNECT WITH "FACILITY PROTECTION" TO PUT IN A SERVICE REQUEST PRIOR TO CONSTRUCTION START.

2. COMED REQUESTS PROTECT ALL EXISTING COMED MANHOLES AND CONDUITS WHEN CROSSING, ADJACENT TO, OR IN THE NEAR VICINITY BY DIGGING TEST HOLES TO ASSURE COMED FACILITIES ARE NOT DAMAGED, DURING THE DIRECTIONAL BORE OR EXCAVATION PROCESS, AND HAND DIG WHEN WITHIN 5 FEET OF CROSSING FACILITIES. IF FIELD CONDITIONS REQUIRE COMED ASSISTANCE, SUCH AS POLE BRACING, CONDUIT SUPPORTS AND/OR FRAME AND COVER ADJUSTMENTS, PLEASE CONTACT NEW BUSINESS @ 1-866-NEW-ELEC, WITH A MINIMUM (5) WEEK LEAD TIME.

3. HAND DIG IS REQUIRED WHEN CROSSING COMED UNDERGROUND CABLE/CONDUITS. MAINTAIN 12 INCHES VERTICAL CLEARANCE (18 INCHES IF POSSIBLE) FROM ANY COMED FACILITIES. WHEN FIELD CONDITIONS REQUIRE COMED ASSISTANCE, PLEASE CONTACT COMED NEW BUSINESS @ 1-866-NEW-ELEC TO REACH OUT TO A PROJECT ENGINEER AT LEAST 5 WEEKS PRIOR TO CONSTRUCTION.

4. EXISTING AERIAL COMED UTILITIES ARE CURRENTLY IN CONFLICT WITH PROPOSED DESIGN DUE TO NOT MEETING ADEQUATE CLEARANCE REQUIREMENTS. COMED TO MAKE MODIFICATIONS TO THEIR EXISTING FACILITIES PRIOR TO CONTRACTOR PERFORMING WORK.

5. PROPOSED COMED SERVICE DESIGN IN PROGRESS. DESIGN TO BE SENT TO CONTRACTOR PRIOR TO CONSTRUCTION.

ABOVENET - ZAYO COMMUNICATIONS INC NOTES

1. ABOVENET-ZAYO FACILITIES ARE PRESENT IN THE AREA OF CONSTRUCTION IN COMED DUCTS. USE EXTREME CAUTION NEAR ALL ABOVENET-ZAYO FACILITIES. HAND EXCAVATION IS REQUIRED TO LOCATE AND EXPOSE FIBER OPTIC FACILITIES PRIOR TO CROSSING AND WHEN WORKING WITHIN 3 FEET OF ALL ABOVENET-ZAYO FACILITIES. CONTACT DIGGER FOR LOCATES A MINIMUM OF 48 HOURS PRIOR TO START OF CONSTRUCTION.

CROWNCASTLE NOTES:

1. EXISTING CROWN CASTLE FACILITIES IN THE AREA; USE EXTREME CAUTION. HAND TRENCH WITHIN 3' OF CROWN CASTLE FACILITIES TO VISUALLY LOCATE, AND A MINIMUM OF 12" CLEARANCE (VERTICAL & HORIZONTAL) FROM EXISTING CROWN CASTLE FACILITIES IS REQUIRED. CONTACT DIGGER FOR LOCATES A MINIMUM OF 48 HOURS BEFORE BEGINNING CONSTRUCTION.

CTA - TRAFFIC NOTES:

1. CTA OPERATES BUSES ON CALIFORNIA AND ON MILWAUKEE. CTA BUSES REQUIRE A MINIMUM LANE WIDTH OF 11'. CONTRACTOR MUST CONTACT THE CTA A MINIMUM OF TWO WEEKS PRIOR TO ANY LANE OR STREET CLOSURES. PLEASE CONTACT CTA TRAFFIC PLANNING TO DISCUSS ANY IMPACTS TO BUS OPERATIONS I.E. - DETOURS, TEMPORARY BUS STOP RELOCATIONS OR TEMPORARY BUS STOP ELIMINATIONS. TWO OR MORE CONSECUTIVE BUS STOPS CANNOT BE CLOSED AT THE SAME TIME. POINT OF CONTACT FOR THE CTA TRAFFIC PLANNING, NORTH REGION IS JOSEPH OSOWSKI, AT JOSOWSKI@TRANSITCHICAGO.COM.

ABBREVIATIONS

B/	BOTTOM OF
CI	CAST IRON
CTA	CHICAGO TRANSIT AUTHORITY
DI	DUCTILE IRON
DIA	DIAMETER
EX	EXISTING
HDD	HORIZONTAL DIRECTIONAL DRILLING
HDPE	HIGH DENSITY POLY ETHYLENE
IDOT	ILLINOIS DEPARTMENT OF TRANSPORTATION
INV	INVERT
LF	LINEAR FEET
MH	MANHOLE
PR	PROPOSED
ROW	RIGHT OF WAY
TYP	TYPICAL
VCP	VITRIFIED CLAY PIPE
CB	CATCH BASIN
DS	DOWNSPOUT

OUC EFP NUMBER: EFP-125484

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LOGAN SQUARE LINE - CALIFORNIA STATION

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CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	S. LASHOCK
CHECKED BY	J. SCHAEFER
DESIGNED BY	S. LASHOCK
DRAWN BY	L. SPARBER

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CIVIL GENERAL NOTES
2 OF 2

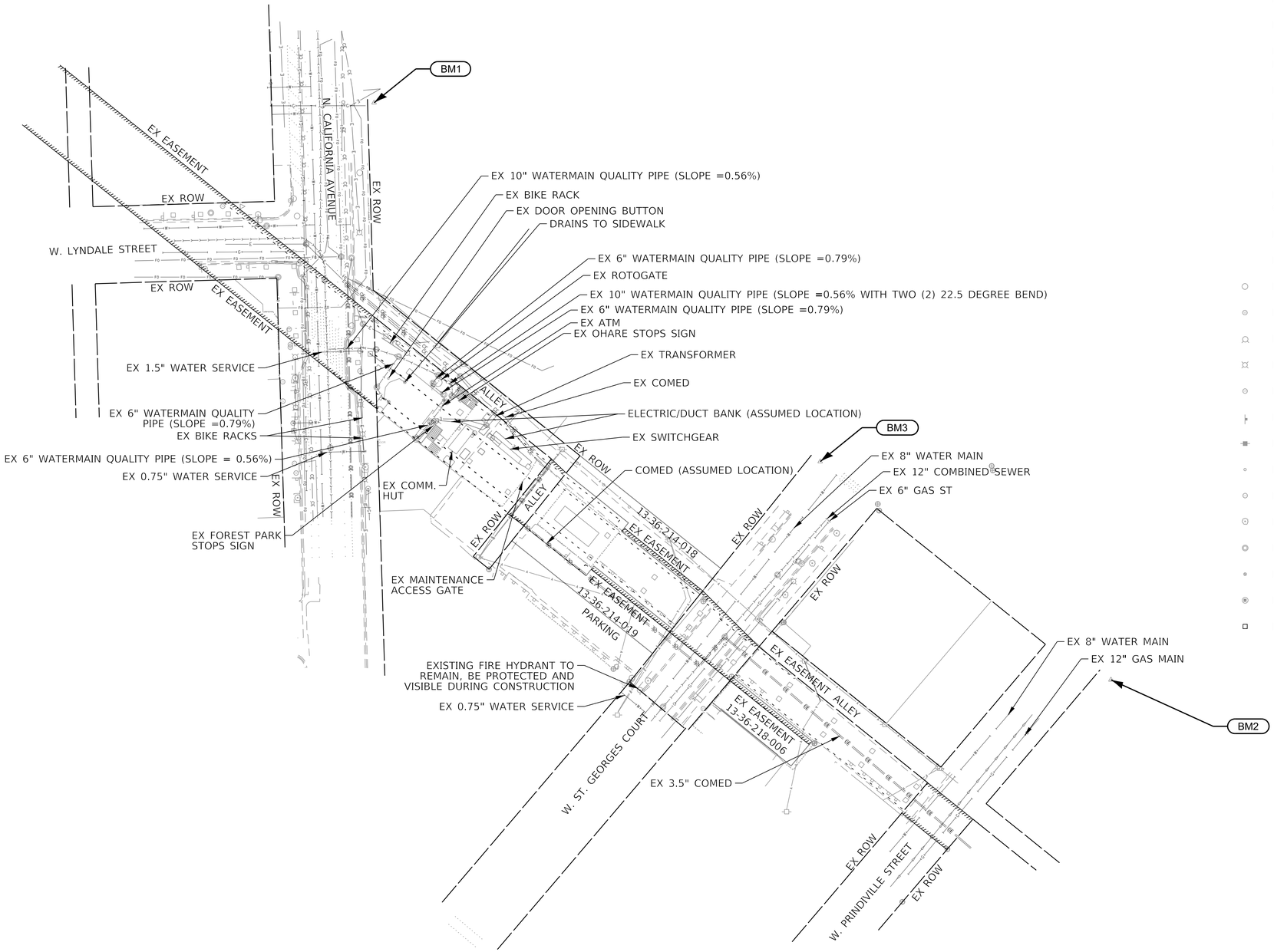
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VOLUME: X OF X

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BENCHMARKS

POINT DATA				
NUM.	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1915058.53	1157366.28	17.97	CUT "+" IN SIDEWALK
2	1914661.36	1157873.23	17.77	CUT "+" IN SIDEWALK
3	1914811.58	1157673.18	17.46	CUT "+" IN SIDEWALK



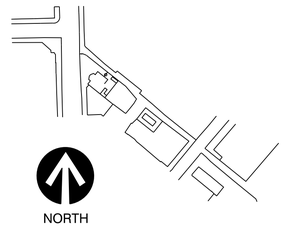
0 20' 40' 80'
SCALE: 1"=40'

LEGEND:

- EXISTING COMED
- EXISTING CITY ELECTRIC
- EXISTING FIBER OPTIC
- EXISTING WATER
- EXISTING GAS
- EXISTING SANITARY SEWER/ EXISTING COMBINED SEWER
- EXISTING BUILDING
- EXISTING AERIAL LINES
- EXISTING FENCE
- EXISTING ROW
- EXISTING EASEMENT/ CTA RIGHTS
- EXISTING PLATFORM EXTENTS
- EXISTING PROPERTY LINE
- EXISTING CATCH BASIN
- EXISTING WATER VALVE VAULT
- EXISTING FIRE HYDRANT
- EXISTING STREET LIGHT POLE
- EXISTING WATER METER
- EXISTING TRAFFIC SIGN
- EXISTING POWER POLE
- EXISTING BOLLARD
- EXISTING GAS VALVE
- EXISTING TREE
- EXISTING MANHOLE
- EXISTING DOWNSPOUT
- EXISTING FLOOR CLEANOUT
- EXISTING ELEVATED COLUMN

NOTES

1. OUC EFP NUMBER: EFP-125484



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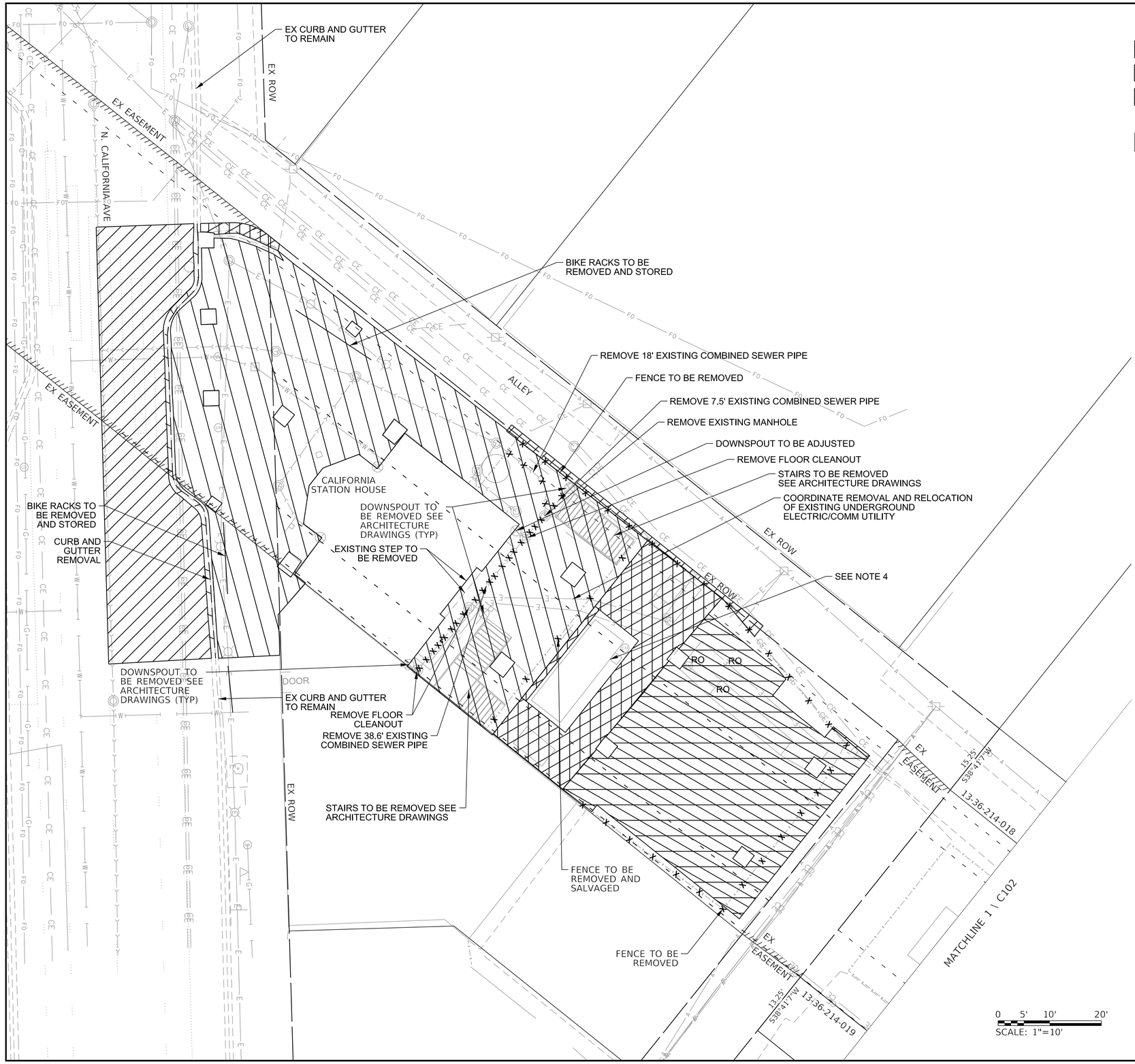
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EXISTING CONDITIONS

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VOLUME: X OF X

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LEGEND:

- PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- CONCRETE REMOVAL
- CURB AND GUTTER REMOVAL
- EARTH EXCAVATION / DIRT REMOVAL
- REMOVAL
- RO — REMOVED BY OTHERS

NOTES

1. SEE PROPOSED IMPROVEMENTS SHEET C-103 FOR LIMITS OF REMOVALS.
2. SEE ELECTRICAL SHEETS FOR EQUIPMENT REMOVAL.
3. ITEMS REMOVED BY OTHERS WILL BE REMOVED PRIOR TO CONSTRUCTION. CONTRACTOR TO VERIFY AND TAKE PRECAUTION DURING EXCAVATION.
4. CONTRACTOR TO TAKE EXTREME CAUTION WHEN EXCAVATING NEXT TO EXISTING EQUIPMENT.
5. ALL WORK TO BE PERFORMED BY CONTRACTOR UNLESS IDENTIFIED AS "REMOVED BY OTHERS."

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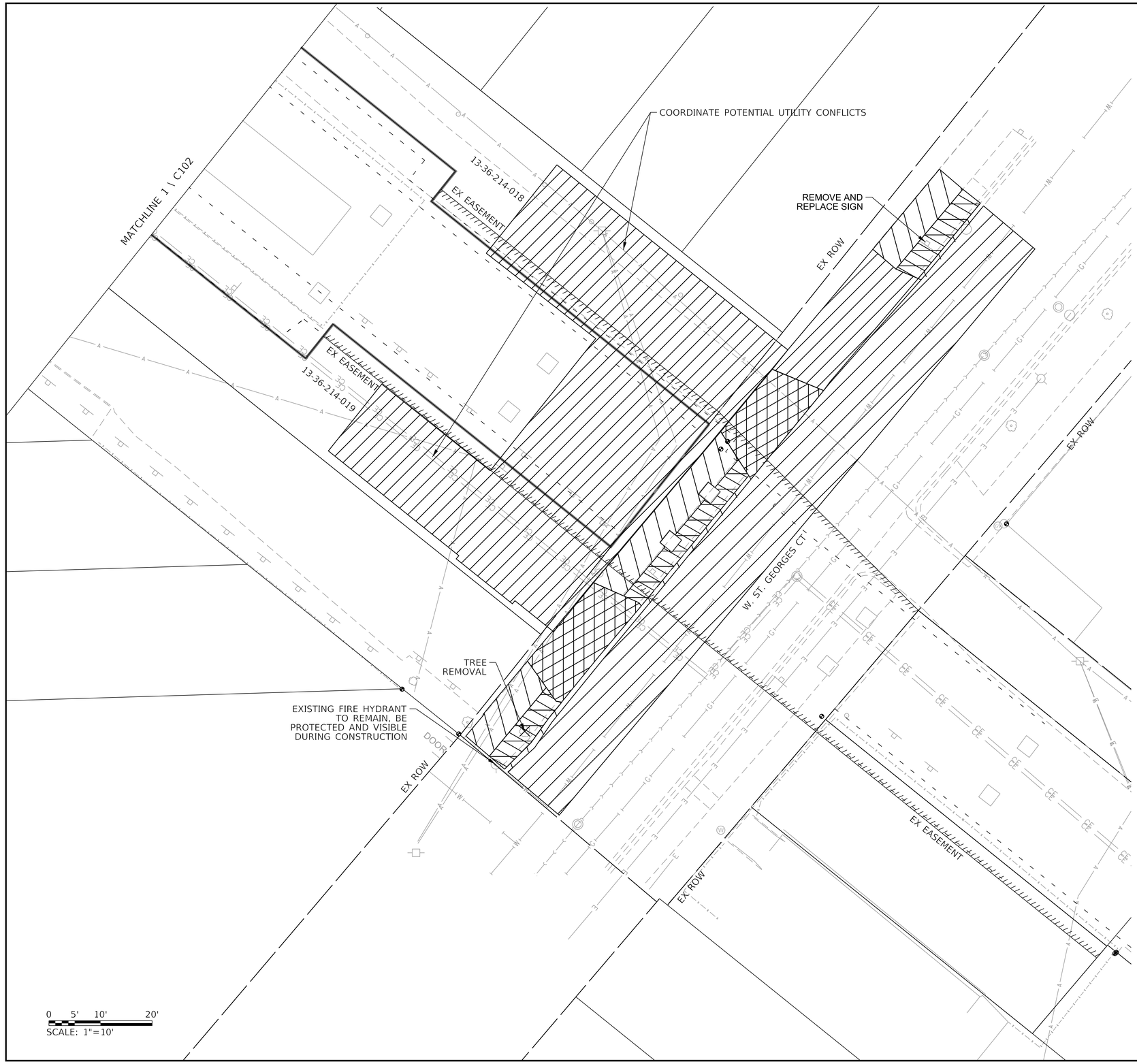
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DEMOLITION PLAN CALIFORNIA AVE

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VOLUME: X OF X

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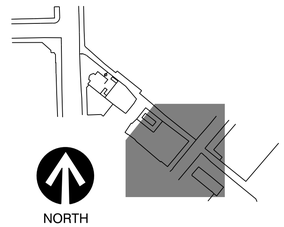


LEGEND:

- PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- CONCRETE REMOVAL
- CURB AND GUTTER REMOVAL
- EARTH EXCAVATION / DIRT REMOVAL
- REMOVAL

NOTE

SEE PROPOSED IMPROVEMENTS SHEET C-104 FOR LIMITS OF REMOVALS.



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LOGAN SQUARE LINE - CALIFORNIA STATION

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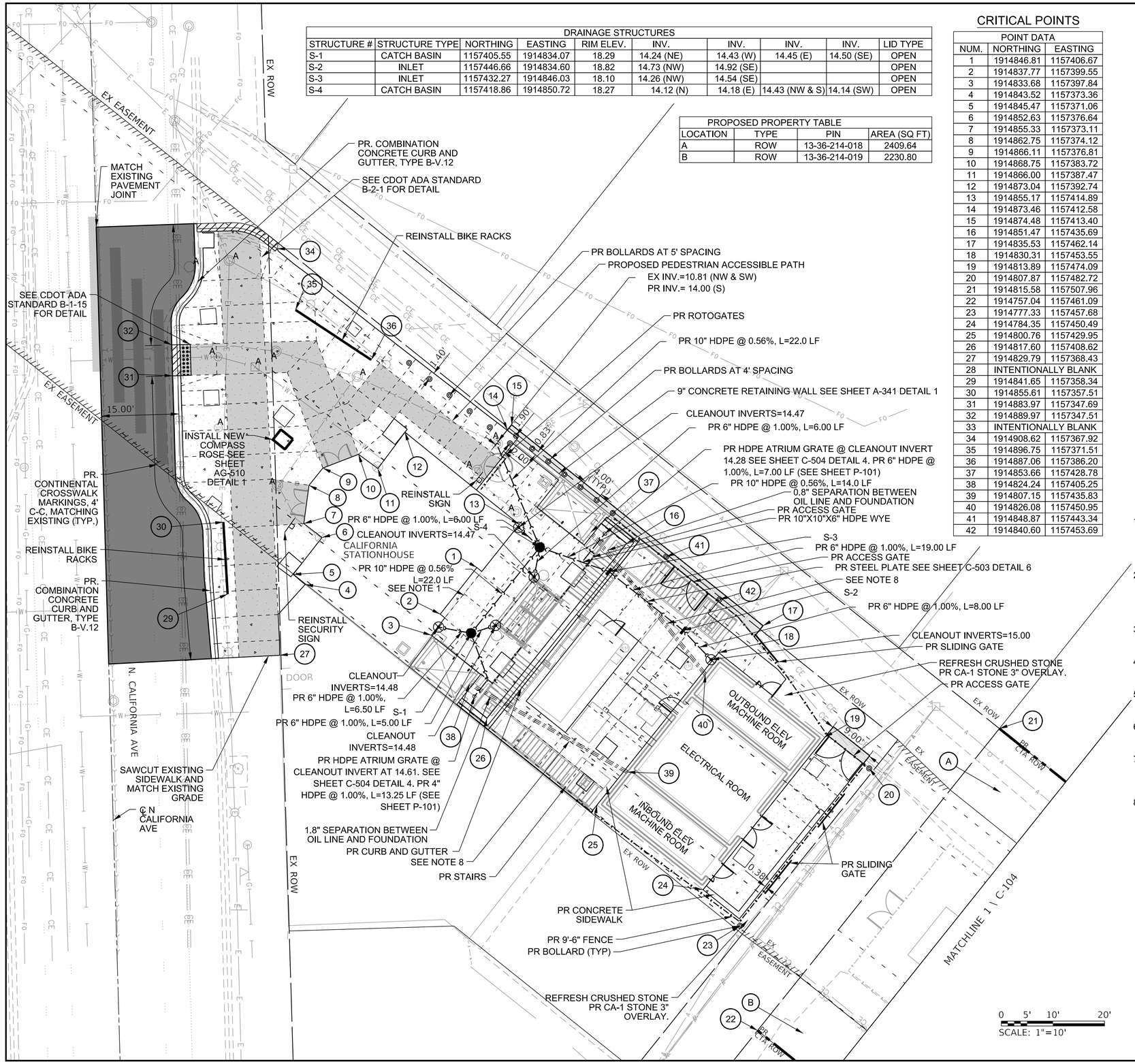
PROJECT NO	2015-0027.04
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DESIGNED BY	S. LASHOCK
DRAWN BY	L. SPARBER

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DEMOLITION PLAN
W. ST. GEORGES CT

LSCAL C-102

VOLUME: X OF X



DRAINAGE STRUCTURES									
STRUCTURE #	STRUCTURE TYPE	NORTHING	EASTING	RIM ELEV.	INV.	INV.	INV.	INV.	LID TYPE
S-1	CATCH BASIN	1157405.55	1914834.07	18.29	14.24 (NE)	14.43 (W)	14.45 (E)	14.50 (SE)	OPEN
S-2	INLET	1157446.66	1914834.60	18.82	14.73 (NW)	14.92 (SE)			OPEN
S-3	INLET	1157432.27	1914846.03	18.10	14.26 (NW)	14.54 (SE)			OPEN
S-4	CATCH BASIN	1157418.86	1914850.72	18.27	14.12 (N)	14.18 (E)	14.43 (NW & S)	14.14 (SW)	OPEN

PROPOSED PROPERTY TABLE			
LOCATION	TYPE	PIN	AREA (SQ FT)
A	ROW	13-36-214-018	2409.64
B	ROW	13-36-214-019	2230.80

CRITICAL POINTS

POINT DATA		
NUM.	NORTHING	EASTING
1	1914846.81	1157406.67
2	1914837.77	1157399.55
3	1914833.68	1157397.84
4	1914843.52	1157373.36
5	1914845.47	1157371.06
6	1914852.63	1157376.64
7	1914855.33	1157373.11
8	1914862.75	1157374.12
9	1914866.11	1157376.81
10	1914868.75	1157383.72
11	1914866.00	1157387.47
12	1914873.04	1157392.74
13	1914855.17	1157414.89
14	1914873.46	1157412.58
15	1914874.48	1157413.40
16	1914851.47	1157435.69
17	1914835.53	1157462.14
18	1914830.31	1157453.55
19	1914813.89	1157474.09
20	1914807.87	1157482.72
21	1914815.58	1157507.96
22	1914757.04	1157461.09
23	1914777.33	1157457.68
24	1914784.35	1157450.49
25	1914800.76	1157429.95
26	1914817.60	1157408.62
27	1914829.79	1157368.43
28	INTENTIONALLY BLANK	
29	1914841.65	1157358.34
30	1914855.61	1157357.51
31	1914883.97	1157347.69
32	1914889.97	1157347.51
33	INTENTIONALLY BLANK	
34	1914908.62	1157367.92
35	1914896.75	1157371.51
36	1914887.06	1157386.20
37	1914853.66	1157428.78
38	1914824.24	1157405.25
39	1914807.15	1157435.83
40	1914826.08	1157450.95
41	1914848.87	1157443.34
42	1914840.60	1157453.69

LEGEND:

- PORTLAND CEMENT CONCRETE SIDEWALK, 5" SUB-BASE GRANULAR MATERIAL, TYPE B, 4"
- DEPRESSED CURB AND GUTTER
- FULL DEPTH PAVEMENT: HMA SURFACE COURSE, MIX "D", N70, 3" PORTLAND CEMENT CONCRETE BASE COURSE, 9" SUB-BASE GRANULAR MATERIAL, TYPE B, 6" TRENCH BACKFILL (AS REQUIRED)
- DRIVEWAY AND ALLEY RETURN PAVEMENT, 8 INCH (HIGH EARLY STRENGTH) SUB-BASE GRANULAR MATERIAL, TYPE B, 6" TRENCH BACKFILL (AS REQUIRED)
- PROPOSED COMBINED SEWER
- PROPOSED CATCH BASIN
- PROPOSED DOWNSPOUT
- PROPOSED FENCING
- SIDEWALK TILE JOINTS
- EXISTING CATCH BASIN TO BE ADJUSTED
- EXISTING WATER VALVE VAULT TO BE ADJUSTED
- EXISTING WATER METER TO BE ADJUSTED
- EXISTING GAS VALVE TO BE ADJUSTED
- EXISTING MANHOLE TO BE ADJUSTED
- EXISTING FLOOR CLEANOUT TO BE ADJUSTED
- HYDRAULIC OIL PIPE

NOTES

1. IN THE PLAZA BEHIND THE STATIONHOUSE, INCLUDING THE AREA UP TO THE PROPOSED ROTOGATES, ALL SIDEWALK SLOPES ARE TO BE 1:64 MAX. UNLESS NOTED OTHERWISE.
2. PROVIDE POSITIVE SLOPE FOR DRAINAGE. VERIFY MAINLINE SEWER CONNECTION ELEVATION PRIOR TO INSTALLATION AND ALL PROPOSED IMPROVEMENTS MEET IEPA CLEARANCE REQUIREMENTS.
3. SEE SHEET C-100 FOR EXISTING DRAINAGE STRUCTURE TYPE AND PIPE SIZE.
4. CONFIRM SUGGESTED ELEVATIONS SHOWN WITH FIELD CONDITIONS AND OTHER UTILITY CROSSINGS.
5. CONSTRUCT PROPOSED SEWER SERVICE AT MIN. FORTY TWO (42) INCHES BELOW GROUND ELEVATION.
6. PROPOSED CLEANOUTS TO BE 2' AWAY FROM PROPOSED DOWNSPOUT LOCATIONS.
7. SEE ARCHITECTURE SHEETS FOR PROPOSED ROTOGATES, RETAINING WALL, ACCESS GATES, FENCES, STAIRS, ELECTRICAL AND MACHINE ROOMS.
8. PROPOSED HYDRAULIC LINE TO BE SLEEVED WITH 6" HDPE INSULATED PIPE AND BURIED UNDERGROUND WITH A 2' MINIMUM COVER. CORRESPONDING ELEVATOR CONTROLS AND POWER FEEDS TO RUN ADJACENT TO LINE. REFER TO DETAIL 5 ON C-503, EQUIPMENT SECTION DETAIL 3 ON SHEET Q-003, AND DETAIL 3 ON SHEET Q-004 FOR ADDITIONAL DETAILS RELATED TO ELEVATOR EQUIPMENT.

HNTB
HNTB Corporation
One South Wacker Drive, Suite 900
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(312) 930-9119

CHICAGO TRANSIT AUTHORITY
ENGINEERING

SENSITIVE SECURITY INFORMATION

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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	S. LASHOCK
CHECKED BY	J. SCHAEFER
DESIGNED BY	S. LASHOCK
DRAWN BY	L. SPARBER

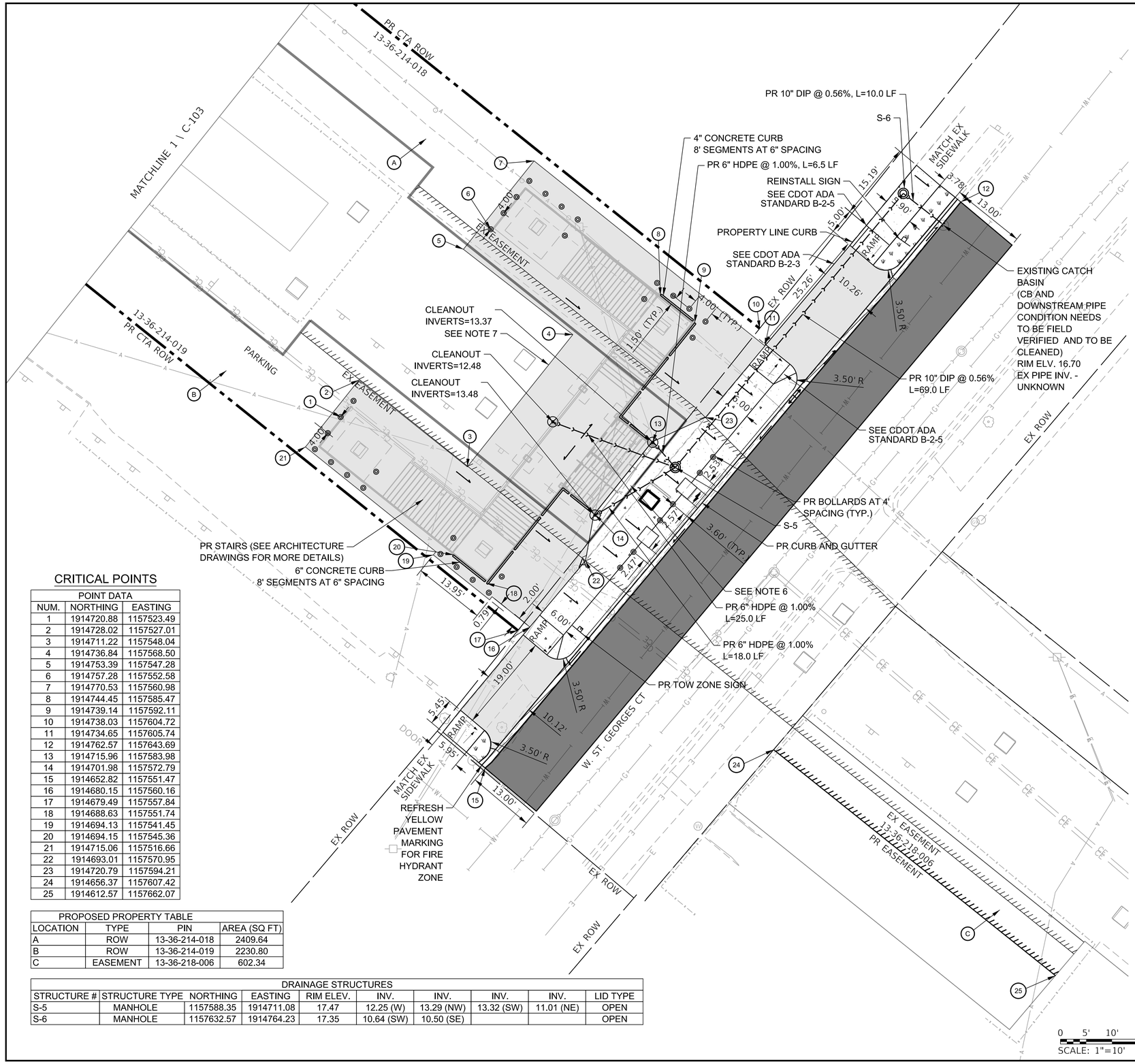
MARK	DATE	DESCRIPTION
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PROPOSED CONDITIONS CALIFORNIA AVE

LSCAL | C-103

VOLUME: X OF X

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CRITICAL POINTS

POINT DATA		
NUM.	NORTHING	EASTING
1	1914720.88	1157523.49
2	1914728.02	1157527.01
3	1914711.22	1157548.04
4	1914736.84	1157568.50
5	1914753.39	1157547.28
6	1914757.28	1157552.58
7	1914770.53	1157560.98
8	1914744.45	1157585.47
9	1914739.14	1157592.11
10	1914738.03	1157604.72
11	1914734.65	1157605.74
12	1914762.57	1157643.69
13	1914715.96	1157583.98
14	1914701.98	1157572.79
15	1914652.82	1157551.47
16	1914680.15	1157560.16
17	1914679.49	1157557.84
18	1914688.63	1157551.74
19	1914694.13	1157541.45
20	1914694.15	1157545.36
21	1914715.06	1157516.66
22	1914693.01	1157570.95
23	1914720.79	1157594.21
24	1914656.37	1157607.42
25	1914612.57	1157662.07

PROPOSED PROPERTY TABLE			
LOCATION	TYPE	PIN	AREA (SQ FT)
A	ROW	13-36-214-018	2409.64
B	ROW	13-36-214-019	2230.80
C	EASEMENT	13-36-218-006	602.34

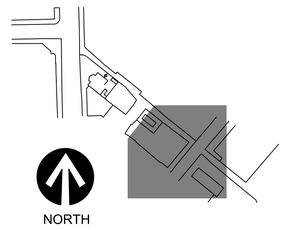
DRAINAGE STRUCTURES									
STRUCTURE #	STRUCTURE TYPE	NORTHING	EASTING	RIM ELEV.	INV.	INV.	INV.	INV.	LID TYPE
S-5	MANHOLE	1157588.35	1914711.08	17.47	12.25 (W)	13.29 (NW)	13.32 (SW)	11.01 (NE)	OPEN
S-6	MANHOLE	1157632.57	1914764.23	17.35	10.64 (SW)	10.50 (SE)			OPEN

LEGEND:

- PORTLAND CEMENT CONCRETE SIDEWALK, 5" SUB-BASE GRANULAR MATERIAL, TYPE B, 4"
- DEPRESSED CURB AND GUTTER
- FULL DEPTH PAVEMENT: HMA SURFACE COURSE, MIX "D", N70, 3" PORTLAND CEMENT CONCRETE BASE COURSE, 9" SUB-BASE GRANULAR MATERIAL, TYPE B, 6" TRENCH BACKFILL (AS REQUIRED)
- DRIVEWAY AND ALLEY RETURN PAVEMENT, 8 INCH (HIGH EARLY STRENGTH) SUB-BASE GRANULAR MATERIAL, TYPE B, 6" TRENCH BACKFILL (AS REQUIRED)
- PROPOSED 4" TOPSOIL, SODDING, AND FERTILIZER
- PROPOSED COMBINED SEWER
- PROPOSED DOWNSPOUT
- PROPOSED MANHOLE
- EXISTING CATCH BASIN TO BE ADJUSTED
- EXISTING WATER VALVE VAULT TO BE ADJUSTED
- FLOW DIRECTION
- DRAINAGE SUMMIT

NOTES

1. ALL SIDEWALK SLOPES ARE TO BE 1:64 MAX. UNLESS NOTED OTHERWISE.
2. PROVIDE POSITIVE SLOPE FOR DRAINAGE. PROPOSED CURB AND GUTTER TO MATCH EXISTING FLOW LINE. VERIFY MAINLINE SEWER CONNECTION ELEVATION PRIOR TO INSTALLATION.
3. VERIFY MAINLINE SEWER CONNECTION ELEVATION PRIOR TO INSTALLATION, ADJUST INVERT ELEVATIONS AS NEEDED TO PROVIDE ADEQUATE SLOPE FOR ALL DRAINAGE, AND ENSURE ALL PROPOSED IMPROVEMENTS MEET IEPA CLEARANCE REQUIREMENTS.
4. CONFIRM SUGGESTED ELEVATIONS SHOWN WITH FIELD CONDITIONS AND OTHER UTILITY CROSSINGS.
5. CONSTRUCT PROPOSED SEWER SERVICE AT MIN. FORTY TWO (42) INCHES BELOW GROUND ELEVATION.
6. PROPOSED CLEANOUTS TO BE 2' AWAY FROM PROPOSED DOWNSPOUT LOCATIONS.
7. PROPOSED ELEVATION AT BASE OF STAIRS TO BE 17.50. SIDEWALK TO BE GRADED TO MATCH INTO EXISTING.
8. MATCH EXSTING HMA.
9. PROPOSED MANHOLES IN PEDESTRIAN WAY TO HAVE ADA COMPLIANT CAST OPEN LIDS.



0 5' 10' 20'
SCALE: 1"=10'

NORTH

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CHICAGO TRANSIT AUTHORITY
ENGINEERING

SENSITIVE SECURITY INFORMATION

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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

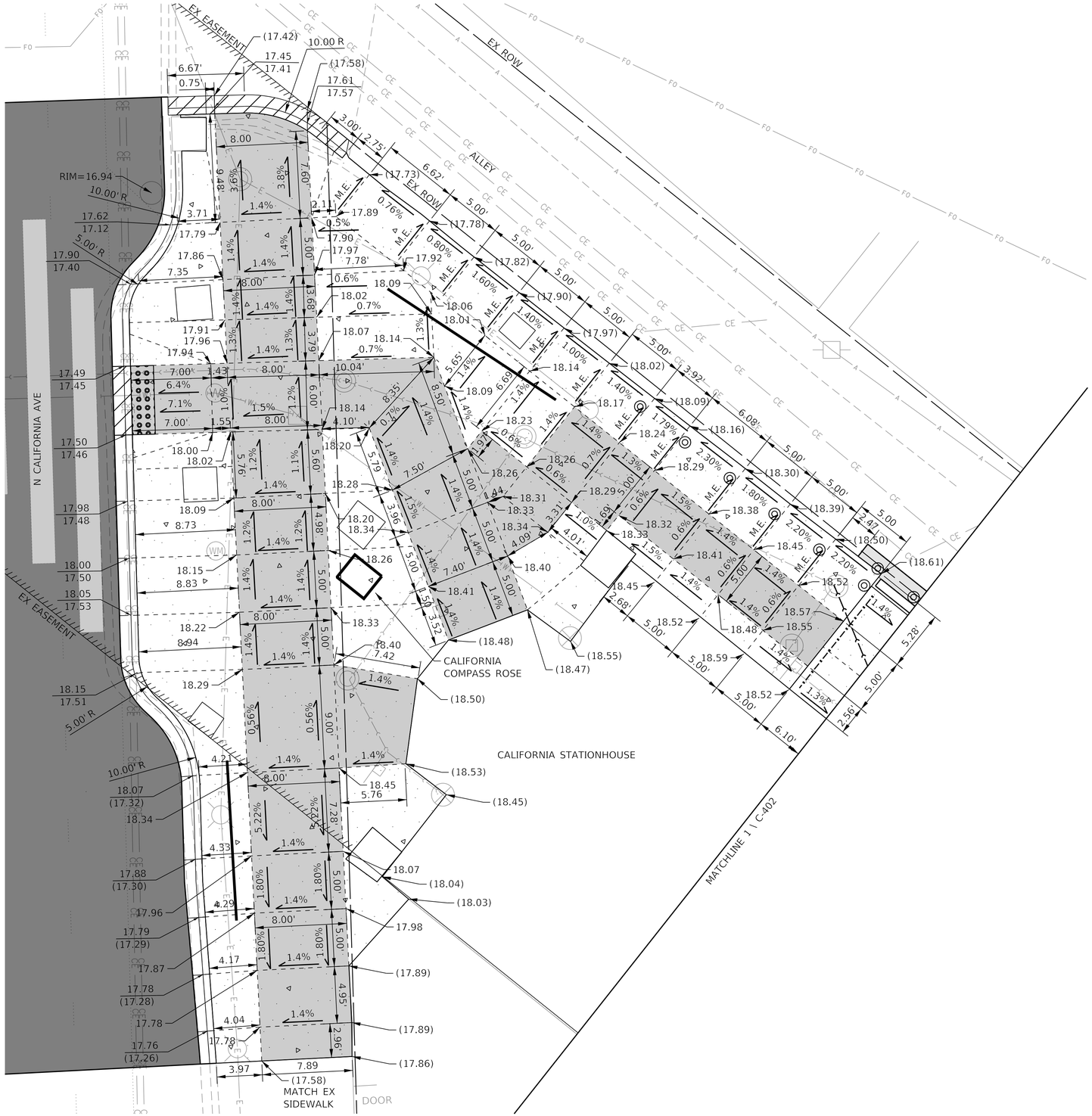
PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	S. LASHOCK
CHECKED BY	J. SCHAEFER
DESIGNED BY	S. LASHOCK
DRAWN BY	L. SPARBER

MARK	DATE	DESCRIPTION
0	12/30/24	ISSUE FOR BID

PROPOSED CONDITIONS W. ST GEORGES CT

LSCAL | C-104
VOLUME: X OF X

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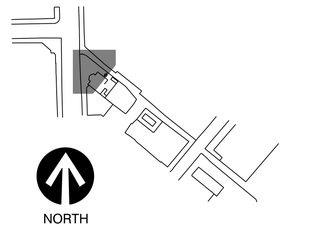


LEGEND:

XX.XX	PROPOSED ELEVATION
(XX.XX)	EXISTING ELEVATION
X.XX%	SLOPE
XX.XX / XX.XX	TOP OF CURB ELEVATION / FLOWLINE ELEVATION

NOTES

1. CONTRACTOR TO MATCH INTO EXISTING (M.E.) GRADES ALONG SIDEWALK, ALLEY, AND ROADWAY.
2. CONTRACTOR TO MAINTAIN EXISTING FLOW LINE.



0 5' 10' 20'

SCALE: 1"=5'

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ENGINEERING

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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	S. LASHOCK
CHECKED BY	J. SCHAEFER
DESIGNED BY	S. LASHOCK
DRAWN BY	L. SPARBER

MARK	DATE	DESCRIPTION
0	12/30/24	ISSUE FOR BID

PROPOSED GRADING
N CALIFORNIA AVE

LSCAL | C-401

VOLUME: X OF X

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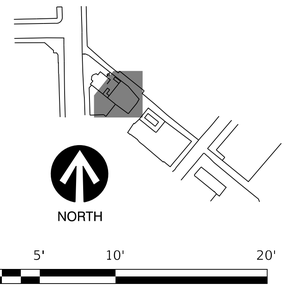


LEGEND:

XX.XX	PROPOSED ELEVATION
(XX.XX)	EXISTING ELEVATION
X.XX%	SLOPE
XX.XX / XX.XX	TOP OF CURB ELEVATION / FLOWLINE ELEVATION

NOTES

1. IN THE PLAZA BEHIND THE STATIONHOUSE, INCLUDING THE AREA UP TO THE PROPOSED ROTOGATES, ALL SIDEWALK SLOPES ARE TO BE 1:64 MAX. UNLESS NOTED OTHERWISE.
2. CONFIRM SUGGESTED ELEVATIONS SHOWN WITH FIELD CONDITIONS AND OTHER UTILITY CROSSINGS.
3. FIELD VERIFY LOCATION OF EXISTING STRUCTURAL COLUMN UNDERGROUND FOOTING/FOUNDATION.
4. PROPOSED CATCH BASINS AND INLETS IN PEDESTRIAN WAY TO HAVE ADA COMPLIANT CAST OPEN LIDS.
5. SEE ARCHITECTURE SHEETS FOR FINAL PROPOSED CONDITION.
6. CONTRACTOR TO REFRESH EXISTING CRUSHED STONE, PR CA-1 STONE, 3" OVERLAY AROUND ELECTRICAL/MACHINE ROOM BUILDING IMPROVEMENTS.
7. CONTRACTOR TO PROVIDE PROPOSED EXPANSION JOINTS AS NECESSARY.
8. ENSURE PAVEMENT AT THE EASTERNMOST CORNER OF THE STATIONHOUSE BUILDING IS HIGHER THAN THE SURROUNDING PAVEMENT.
9. AT LOCATIONS WHERE PROPOSED SIDEWALK ELEVATIONS DO NOT MATCH EXISTING GRADE ELEVATIONS, CONTRACTOR TO UTILIZE PROPOSED BARRIER CURB AS NECESSARY AS A MEANS OF TRANSITION FROM PROPOSED GRADE TO EXISTING GRADE.



0 5' 10' 20'

SCALE: 1"=5'

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CHICAGO TRANSIT AUTHORITY
ENGINEERING

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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	S. LASHOCK
CHECKED BY	J. SCHAEFER
DESIGNED BY	S. LASHOCK
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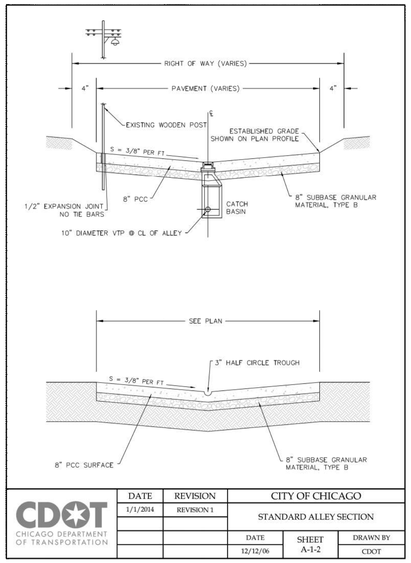
MARK	DATE	DESCRIPTION
0	12/30/24	ISSUE FOR BID

PROPOSED GRADING CALIFORNIA STATION HOUSE

LSCAL | C-402

VOLUME: X OF X

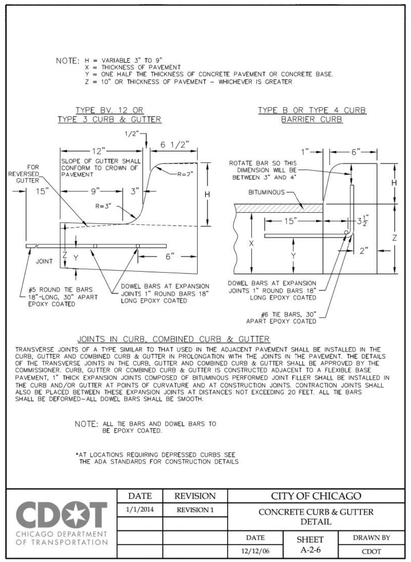
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CDOT CHICAGO DEPARTMENT OF TRANSPORTATION	DATE	REVISION	CITY OF CHICAGO
	1/1/2014	REVISION 1	STANDARD ALLEY SECTION
			DATE 12/12/06 · SHEET A-1-2 · DRAWN BY CDOT

1 C-500 STANDARD ALLEY SECTION

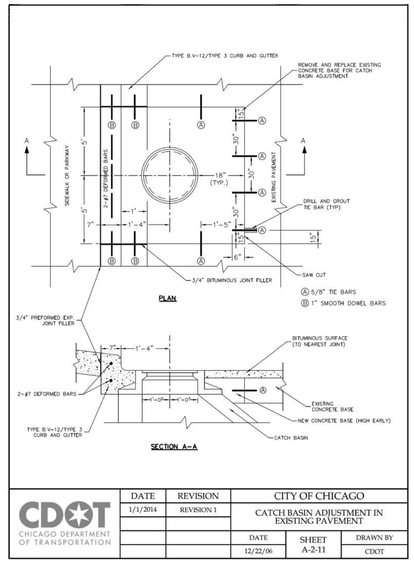
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CDOT CHICAGO DEPARTMENT OF TRANSPORTATION	DATE	REVISION	CITY OF CHICAGO
	1/1/2014	REVISION 1	CONCRETE CURB & GUTTER DETAIL
			DATE 12/12/06 · SHEET A-2-6 · DRAWN BY CDOT

2 C-500 CONCRETE CURB & GUTTER DETAIL

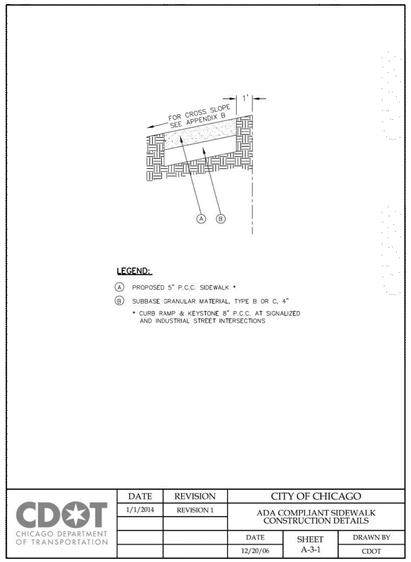
SCALE: N.T.S.



CDOT CHICAGO DEPARTMENT OF TRANSPORTATION	DATE	REVISION	CITY OF CHICAGO
	1/1/2014	REVISION 1	CATCH BASIN ADJUSTMENT IN EXISTING PAVEMENT
			DATE 12/22/06 · SHEET A-2-11 · DRAWN BY CDOT

3 C-500 CATCH BASIN ADJUSTMENT IN EXISTING PAVEMENT

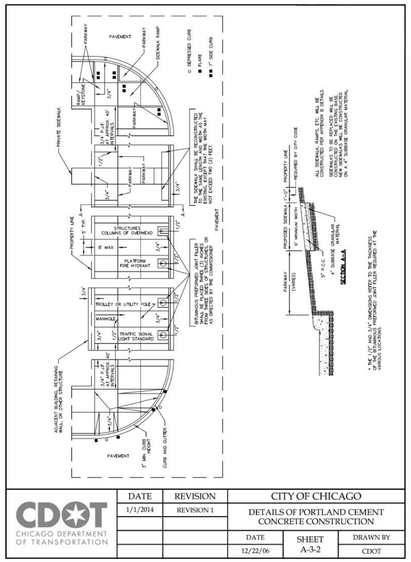
SCALE: N.T.S.



CDOT CHICAGO DEPARTMENT OF TRANSPORTATION	DATE	REVISION	CITY OF CHICAGO
	1/1/2014	REVISION 1	ADA COMPLIANT SIDEWALK CONSTRUCTION DETAILS
			DATE 12/20/06 · SHEET A-3-1 · DRAWN BY CDOT

4 C-500 ADA COMPLIANT SIDEWALK CONSTRUCTION DETAILS

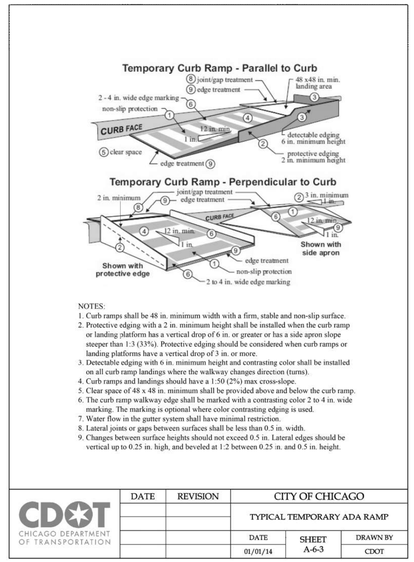
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CDOT CHICAGO DEPARTMENT OF TRANSPORTATION	DATE	REVISION	CITY OF CHICAGO
	1/1/2014	REVISION 1	DETAILS OF PORTLAND CEMENT CONCRETE CONSTRUCTION
			DATE 12/22/06 · SHEET A-3-2 · DRAWN BY CDOT

5 C-500 PORTLAND CEMENT CONCRETE CONSTRUCTION

SCALE: N.T.S.



NOTES:
1. Curb ramps shall be 48 in. minimum width with a firm, stable and non-slip surface.
2. Protective edging with a 2 in. minimum height shall be installed when the curb ramp or landing platform has a vertical drop of 6 in. or greater or has a side apron slope steeper than 1:3 (33%). Protective edging should be considered when curb ramps or landing platforms have a vertical drop of 3 in. or more.
3. Detectable edging with 6 in. minimum height and contrasting color shall be installed on all curb ramp landings where the walkway changes direction (turns).
4. Curb ramps and landings should have a 1:50 (2%) max cross-slope.
5. Clear space of 48 x 48 in. minimum shall be provided above and below the curb ramp.
6. The curb ramp walkway edge shall be marked with a contrasting color 2 to 4 in. wide marking. The marking is optional where color contrasting edging is used.
7. Water flow in the gutter system shall have minimal restriction.
8. Lateral joints or gaps between surfaces shall be less than 0.5 in. width.
9. Changes between surface heights should not exceed 0.5 in. Lateral edges should be vertical up to 0.25 in. high, and beveled at 1:2 between 0.25 in. and 0.5 in. height.

CDOT CHICAGO DEPARTMENT OF TRANSPORTATION	DATE	REVISION	CITY OF CHICAGO
			TYPICAL TEMPORARY ADA RAMP
			DATE 01/01/14 · SHEET A-6-3 · DRAWN BY CDOT

6 C-500 TYPICAL TEMPORARY ADA RAMP

SCALE: N.T.S.

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CHICAGO TRANSIT AUTHORITY
ENGINEERING

SENSITIVE SECURITY INFORMATION

WARNING: THIS RECORD CONTAINS SENSITIVE SECURITY INFORMATION THAT IS CONTROLLED UNDER 49 CFR PARTS 15 AND 1520. NO PART OF THIS RECORD MAY BE DISCLOSED TO PERSONS WITHOUT A "NEED TO KNOW" AS DEFINED IN CFR PARTS 15 AND 1520, EXCEPT WITH THE WRITTEN PERMISSION OF THE ADMINISTRATOR OF THE TRANSPORTATION SECURITY ADMINISTRATION OR THE SECRETARY OF TRANSPORTATION. UNAUTHORIZED RELEASE MAY RESULT IN CIVIL PENALTY OR OTHER ACTION. FOR U.S. GOVERNMENT AGENCIES, PUBLIC DISCLOSURE IS GOVERNED BY 5 U.S.C. 552 AND 49 CFR PARTS 15 AND 1520.

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ALL STATIONS ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	S. LASHOCK
CHECKED BY	J. SCHAEFER
DESIGNED BY	S. LASHOCK
DRAWN BY	L. SPARBER

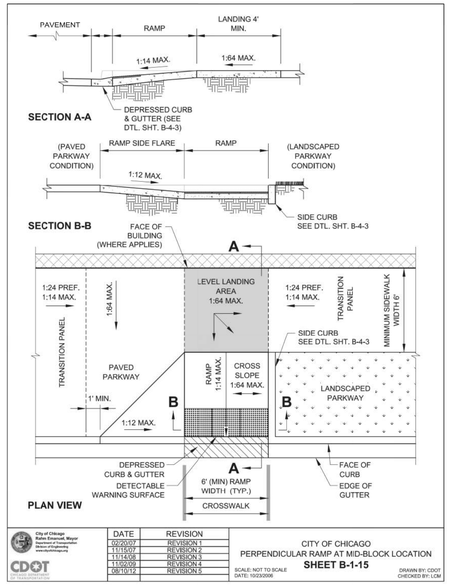
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DETAILS
SHEET 1 OF 6

LSCAL | C-500

VOLUME: X OF X

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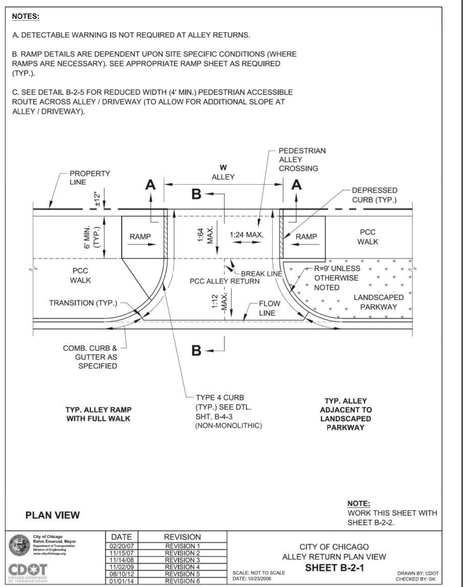
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11/13/07	REVISION 2
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08/10/12	REVISION 5

CITY OF CHICAGO
PERPENDICULAR RAMP AT MID-BLOCK LOCATION
SHEET B-1-15

SCALE: NOT TO SCALE
DATE: 10/23/2006

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1 C-501 **PERPENDICULAR RAMP AT MID-BLOCK LOCATION**
SCALE: N.T.S.



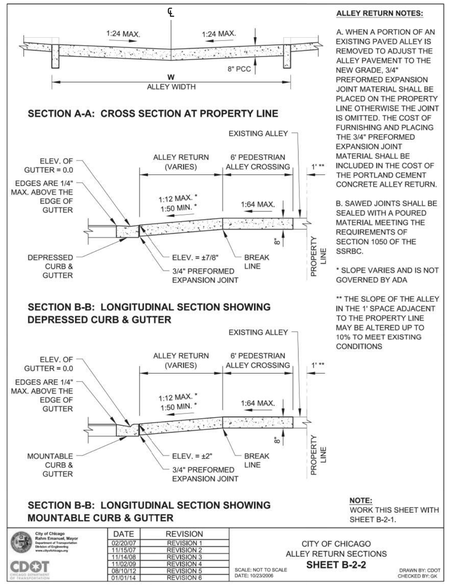
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CITY OF CHICAGO
ALLEY RETURN PLAN VIEW
SHEET B-2-1

SCALE: NOT TO SCALE
DATE: 10/23/2006

DRAWN BY: CDOT
CHECKED BY: GK

2 C-501 **ALLEY RETURN PLAN VIEW**
SCALE: N.T.S.



ALLEY RETURN NOTES:

A. WHEN A PORTION OF AN EXISTING PAVED ALLEY IS REMOVED TO ADJUST THE ALLEY PAVEMENT TO THE NEW GRADE, 3/4" PREFORMED EXPANSION JOINT MATERIAL SHALL BE PLACED ON THE PROPERTY LINE OTHERWISE THE JOINT IS OMITTED. THE COST OF FURNISHING AND PLACING THE 3/4" PREFORMED EXPANSION JOINT MATERIAL SHALL BE INCLUDED IN THE COST OF THE PORTLAND CEMENT CONCRETE ALLEY RETURN.

B. SAWED JOINTS SHALL BE SEALED WITH A POURED MATERIAL MEETING THE REQUIREMENTS OF SECTION 1050 OF THE SSRBC.

* SLOPE VARIES AND IS NOT GOVERNED BY ADA

** THE SLOPE OF THE ALLEY IN THE 1' SPACE ADJACENT TO THE PROPERTY LINE MAY BE ALTERED UP TO 10% TO MEET EXISTING CONDITIONS

DATE	REVISION
02/20/07	REVISION 1
11/13/07	REVISION 2
11/14/08	REVISION 3
11/02/09	REVISION 4
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01/01/14	REVISION 6

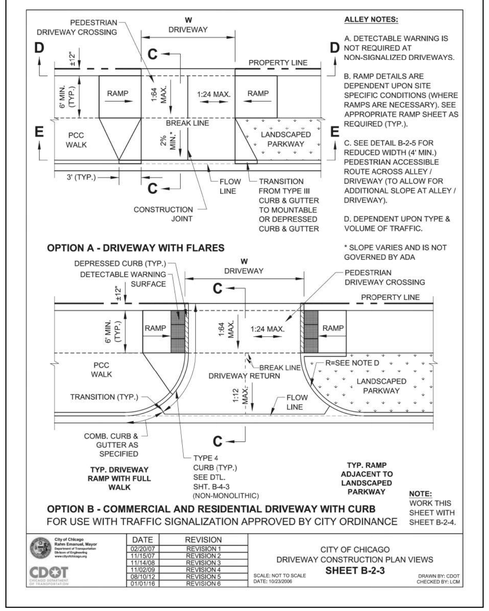
CITY OF CHICAGO
ALLEY RETURN SECTIONS
SHEET B-2-2

SCALE: NOT TO SCALE
DATE: 10/23/2006

DRAWN BY: CDOT
CHECKED BY: GK

NOTE: WORK THIS SHEET WITH SHEET B-2-1.

3 C-501 **ALLEY RETURN SECTIONS**
SCALE: N.T.S.



ALLEY NOTES:

A. DETECTABLE WARNING IS NOT REQUIRED AT NON-SIGNALIZED DRIVEWAYS.

B. RAMP DETAILS ARE DEPENDENT UPON SITE SPECIFIC CONDITIONS (WHERE RAMPS ARE NECESSARY). SEE APPROPRIATE RAMP SHEET AS REQUIRED (TYP.).

C. SEE DETAIL B-2-5 FOR REDUCED WIDTH (4' MIN.) PEDESTRIAN ACCESSIBLE ROUTE ACROSS ALLEY / DRIVEWAY (TO ALLOW FOR ADDITIONAL SLOPE AT ALLEY / DRIVEWAY).

D. DEPENDENT UPON TYPE & VOLUME OF TRAFFIC.

* SLOPE VARIES AND IS NOT GOVERNED BY ADA

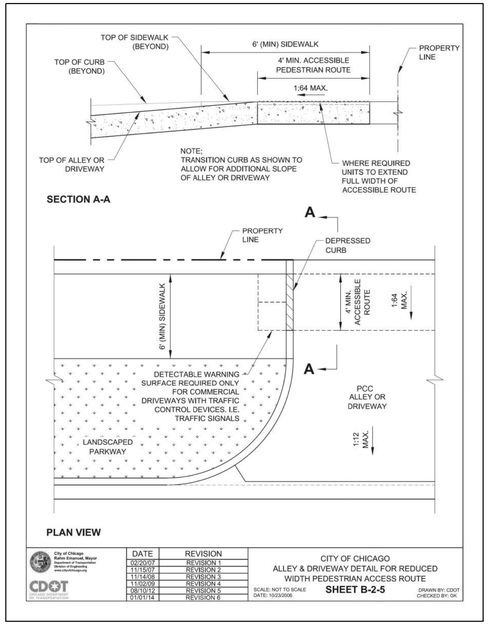
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11/02/09	REVISION 4
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CITY OF CHICAGO
DRIVEWAY CONSTRUCTION PLAN VIEWS
SHEET B-2-3

SCALE: NOT TO SCALE
DATE: 10/23/2006

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4 C-501 **DRIVEWAY CONSTRUCTION PLAN VIEWS**
SCALE: N.T.S.



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01/01/14	REVISION 6

CITY OF CHICAGO
ALLEY & DRIVEWAY DETAIL FOR REDUCED WIDTH PEDESTRIAN ACCESS ROUTE
SHEET B-2-5

SCALE: NOT TO SCALE
DATE: 10/23/2006

DRAWN BY: CDOT
CHECKED BY: GK

5 C-501 **ALLEY & DRIVEWAY DETAIL FOR REDUCED WIDTH PEDESTRIAN ACCESS ROUTE**
SCALE: N.T.S.

GENERAL NOTES:

1. THE DETECTABLE WARNING USED SHALL BE CHOSEN FROM THE CHICAGO DEPARTMENT OF TRANSPORTATION LIST OF APPROVED DETECTABLE WARNING PRODUCTS (AVAILABLE ON THE CITY OF CHICAGO WEBSITE). IT IS NOT ACCEPTABLE TO INSTALL TWO DIFFERENT DETECTABLE WARNING PRODUCTS ADJACENT TO ONE ANOTHER AT ANY LOCATION. IN THE CENTRAL BUSINESS DISTRICT, GRANITE OR OTHER SPECIALTY PAVING MATERIALS MAY BE SUBMITTED TO THE COMMISSIONER FOR APPROVAL.

2. THE DETECTABLE WARNING MUST BE INSTALLED A MAXIMUM OF 8" OR LESS FROM FACE OF CURB (SEE DETAIL SHEET B-4-2).

3. THE DETECTABLE WARNING MUST COVER FULL WIDTH OF RAMP EXCLUDING SIDE FLARES FOR A MINIMUM UNOBSTRUCTED DEPTH OF 24". THE DETECTABLE WARNING LOCATED ON THE SURFACES OF RAMPS IS TYPICALLY ORIENTED PERPENDICULAR TO THE RUN OF THE RAMP UNLESS SPECIAL CIRCUMSTANCES OCCUR (SEE DETAIL SHEET B-1-5). THE DETECTABLE WARNING MUST BE PROVIDED FOR A MINIMUM DEPTH OF 24" FOR THE ENTIRE LENGTH OF THE SIDEWALK WHERE THE SIDEWALK IS FLUSH WITH THE STREET (DEPRESSED CURB OR FLUSH TRANSITION). IF IT IS NECESSARY TO CUT A UNIT(S) IN THE PROVISION OF A COMPLIANT RAMP OR SIDEWALK WITH 24" MINIMUM DEPTH OF DETECTABLE WARNING, THE UNITS SHALL BE CUT IN A NEAT AND WORKMAN LIKE MANNER PER MANUFACTURER'S REQUIREMENTS WITH A MINIMUM OF THREE PINS OR ANCHOR POINTS (WHERE APPLICABLE). THE UNITS SHALL BE ARRANGED SO THAT THE CUT UNITS ARE LARGE ENOUGH TO BE PROPERLY AND ADEQUATELY SECURED. CUT UNITS SHALL NOT BE USED UNLESS ALL OTHER DESIGN OPTIONS HAVE BEEN EXHAUSTED. THE USE OF SALVAGE PIECES FROM UNITS THAT ARE CUT WILL NOT BE PERMITTED WITHOUT WRITTEN APPROVAL OF THE COMMISSIONER. CUT UNIT SALVAGE PIECES NOT APPROVED FOR USE MUST BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY.

4. WHERE APPLICABLE, A COMBINATION OF STRAIGHT AND RADIAL DETECTABLE WARNING UNITS MAY BE USED ON COMPOUND AND LARGE RADII. CONTRACTOR MUST MAKE THIS DETERMINATION AND VERIFY IN FIELD.

5. THE DETECTABLE WARNING MUST CONTRAST WITH ADJACENT PAVEMENT. IF LIGHT COLORED PAVEMENT IS USED THE DETECTABLE WARNING COLOR SHALL BE RED. IF A DARK COLORED PAVEMENT IS USED THE DETECTABLE WARNING COLOR SHALL BE YELLOW. CONTRACTOR TO VERIFY THAT PROPER CONTRAST IS OBTAINED.

6. PRIOR TO PLACING CONCRETE FOR DEPRESSED CURBS, RAMPS, OR SIDEWALKS THE CONTRACTOR SHALL VERIFY THAT LAYOUT OR DESIGN COMPLIES WITH THE REQUIREMENTS OF THE CDOT ADA STANDARDS.

7. RAMP WIDTH MUST BE A MINIMUM OF 6'-0" AND IN INCREMENTS OF 1'-0", EXCEPT WHEN USING THE PERPENDICULAR RAMP AT CORNER (OR OTHER SPECIAL CDOT APPROVED CONDITIONS), WHICH HAS A MINIMUM WIDTH OF 4'-0".

8. THE MAXIMUM ALLOWABLE RAMP RUNNING SLOPE IS 1:14, MEASURED AT ANY PORTION OF THE RAMP. IF POSSIBLE, A MORE GRADUAL SLOPE SHALL BE USED. GRADE BREAKS AT THE TOP AND BOTTOM OF RAMPS SHALL BE PERPENDICULAR TO THE DIRECTION OF RAMP RUN.

9. THE MAXIMUM ALLOWABLE RAMP CROSS SLOPE IS 1:64, MEASURED AT ANY PORTION OF THE RAMP. IF POSSIBLE, A MORE GRADUAL SLOPE SHALL BE USED.

10. THE MAXIMUM ALLOWABLE RAMP LANDING SLOPE IS 1:64, MEASURED AT ANY LOCATION AND IN ANY DIRECTION ON THE LANDING. THE RAMP LANDING WIDTH SHALL MATCH THE FULL WIDTH OF THE RAMP FOR A MINIMUM UNOBSTRUCTED DEPTH OF 4'-0". RAMP LANDINGS SHALL BE PROVIDED AT THE TOP AND/OR BOTTOM OF RAMPS WHERE TURNING IS REQUIRED.

11. RAMP SIDE FLARES SHALL BE INSTALLED AT ANY LOCATION WHERE THE SURFACE ADJACENT TO THE RAMP SURFACE IS INTENDED FOR PEDESTRIAN USE. TRIPPING HAZARDS, INCLUDING STEPS, DROP-OFFS, OR CURBS SHALL NOT BE LOCATED WITHIN THE LIMITS OF THE SIDEWALK. RAMP SIDE FLARES ARE NOT REQUIRED WHERE THE SURFACE ADJACENT TO THE RAMP SURFACE IS LANDSCAPED OR IS OCCUPIED BY A BARRIER THAT BLOCKS PEDESTRIAN ACCESS. EXCEPTIONS TO THIS RULE MAY BE SUBMITTED TO THE COMMISSIONER FOR APPROVAL.

DATE	REVISION
02/20/07	REVISION 1
11/13/07	REVISION 2
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11/02/09	REVISION 4
08/10/12	REVISION 5

CITY OF CHICAGO
GENERAL NOTES
SHEET B-3-2

SCALE: NOT TO SCALE
DATE: 10/23/2006

DRAWN BY: CDOT
CHECKED BY: LOM

6 C-501 **GENERAL NOTES**
SCALE: N.T.S.

HNTB
HNTB Corporation
One South Wacker Drive, Suite 900
Chicago, Illinois 60606
(312) 930-9119

CHICAGO TRANSIT AUTHORITY
ENGINEERING

SENSITIVE SECURITY INFORMATION

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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	**I. COLLETTI**
APPROVED BY	S. LASHOCK
CHECKED BY	J. SCHAEFER
DESIGNED BY	S. LASHOCK
DRAWN BY	L. SPARBER

MARK	DATE	DESCRIPTION
0	12/30/24	ISSUE FOR BID

DETAILS
SHEET 2 OF 6

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VOLUME: X OF X

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GENERAL NOTES (CONTINUED):

12. UTILITIES, SUCH AS LIGHT POLES, TRAFFIC POLES AND HYDRANTS, MAY BE LOCATED IN THE FLARE OF THE RAMP BUT ARE NOT ALLOWED ON THE RAMP SURFACE OR LANDING AREAS. EXISTING UTILITY STRUCTURE LIDS MAY REMAIN WITHIN THE FLARE OR ON THE SURFACE OF THE RAMP IF THE REQUIREMENTS OF GENERAL NOTE #19 ARE MET.

13. ALL LOCATIONS WITH TYPE 4 OR TYPE B CURB (EXCEPT ALLEY APRONS) SHALL BE CONSTRUCTED AS CURB AND GUTTER TYPE BV.12 THROUGH THE LIMITS OF THE CORNER AND THE CURB RAMPS.

14. ALTERATIONS SHALL NOT DECREASE THE ACCESSIBILITY TO EXISTING FACILITIES, SIDEWALKS LEADING TO EXISTING FACILITIES, OR DOOR OR GATE ACCESS POINTS TO FACILITIES. THE ELEVATION AT THE EXISTING PROPERTY LINE OR FACILITY ACCESS POINT SHALL BE MAINTAINED AT A MINIMUM. ANY ALTERATIONS ADJACENT TO OR AFFECTING A FACILITY ACCESS POINT SHALL RESULT IN IMPROVED ACCESS OR AT A MINIMUM A REPLICATION OF EXISTING CONDITIONS, INCLUDING SIDEWALK SLOPES AND SURFACE CONDITIONS. FACILITIES INCLUDE, BUT ARE NOT LIMITED TO PRIVATE BUSINESSES, PUBLIC BUILDINGS, RESIDENCES, BUS STOPS, PUBLIC BENCHES, PAY PHONES, AND PARKING METERS.

15. THE MINIMUM CROSSWALK WIDTH IS 6'-0". CROSSWALKS SHALL BE LOCATED AS SHOWN IN THE PLAN SHEETS DEPENDING ON THE TYPE OF CURB RAMP USED, BEYOND THE CURB FACE AT THE BASE OF CURB RAMPS, A CLEAR SPACE OF 4'-0" BY 4'-0" MINIMUM SHALL BE PROVIDED WITHIN THE STRIPES OF THE CROSSWALK (WHERE PROVIDED).

16. IF SIDEWALK AND ALLEY ARE AT THE SAME GRADE, A RAMP IS NOT REQUIRED. IF SIDEWALK AND DRIVEWAY ARE AT THE SAME GRADE, A RAMP IS NOT REQUIRED BUT DETECTABLE WARNING UNITS ARE STILL REQUIRED IF THE DRIVEWAY HAS TRAFFIC CONTROL DEVICES (I.E. TRAFFIC SIGNALS).

17. MAIN LINE SIDEWALK SHALL HAVE A MAXIMUM CROSS SLOPE NOT TO EXCEED 1:64 FOR THE FULL WIDTH OF WALK UNLESS OTHERWISE APPROVED BY THE COMMISSIONER. WHERE TURNING IS REQUIRED AND WHERE SIDEWALKS INTERSECT, THE SLOPE OF THE SIDEWALK SHALL NOT EXCEED 1:64 IN ANY DIRECTION.

18. MAIN LINE SIDEWALK RUNNING SLOPES SHALL NOT EXCEED 1:24 OR THE GENERAL GRADE ESTABLISHED FOR THE ADJACENT STREET, WHICH EVER IS HIGHER.

19. THERE SHALL BE NO VERTICAL LEVEL DIFFERENCES BETWEEN SURFACES GREATER THAN 1/4" ON THE MAIN LINE SIDEWALK. THERE SHALL BE NO HORIZONTAL GAPS OR OPENINGS GREATER THAN 1/2" ON THE MAIN LINE SIDEWALK.

20. WHERE OBSTRUCTIONS EXIST ON THE MAINLINE SIDEWALK, THE CLEAR WIDTH OF USEABLE SIDEWALK SHALL NOT BE LESS THAN 4'-0". OBSTRUCTIONS INCLUDE, BUT ARE NOT LIMITED TO SIDEWALK BENCHES, FIRE HYDRANTS, SIGNAL OR LIGHT POLES, NEWSPAPER DISPENSERS, TRASH RECEPTACLES, AND UTILITY PEDESTALS.

21. CURB RAMPS AND LANDING (KEYSTONE) TO BE CONSTRUCTED WITH 8" THICK CONCRETE AT ALL TRAFFIC SIGNALIZED INTERSECTIONS AND INDUSTRIAL STREET INTERSECTIONS. AT ALL OTHER LOCATIONS, 5" THICK CONCRETE TO BE USED.

22. DEPRESSED CURB, RAMP, OR SIDEWALK DESIGNS OR LAYOUTS SHALL MAINTAIN OR IMPROVE EXISTING DRAINAGE AND THE EXISTING INTERSECTION GEOMETRY SHALL NOT BE MODIFIED WITHOUT CDOT APPROVAL.

23. ALL CONSTRUCTION DOCUMENTS MUST BE STAMPED BY A LICENSED ARCHITECT/LANDSCAPE ARCHITECT/ ENGINEER TO CERTIFY THAT THEY ARE IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA) AND ALL CODES AND BUILDING ORDINANCES OF THE CITY OF CHICAGO AND THE STATE OF ILLINOIS.

24. NO DEVIATIONS FROM THESE STANDARDS ARE ALLOWED WITHOUT WRITTEN APPROVAL FROM THE COMMISSIONER.

City of Chicago — Rahm Emanuel, Mayor — Department of Transformation — Commissioner Gia Biagi — www.cityofchicago.org

CDOT — CHICAGO DEPARTMENT OF TRANSPORTATION

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08/10/12	REVISION 5
01/01/14	REVISION 6

CITY OF CHICAGO
GENERAL NOTES (CONTINUED)
SHEET B-3-3

SCALE: NOT TO SCALE
DATE: 10/23/2006

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CHECKED BY: GK

1 C-502 GENERAL NOTES (CONTINUED)

SCALE: N.T.S.

ADA COMPLIANCE AND TRANSITION GUIDELINES
POLICY STATEMENT: ANY ALTERATION OF THE PUBLIC WAY MUST BE RESTORED IN AN ADA COMPLIANT MANNER

I. STREET/ALLEY RESTORATION

FOR ANY PROJECT WHERE, WITHIN THE PROJECT LIMITS, A CROSSWALK IS ENCOUNTERED OR WHERE THE PROJECT LIMITS TERMINATE WITHIN 4' OR LESS OF A CROSSWALK, THOSE CROSSWALKS AND THE ASSOCIATED CURB RAMPS MUST BE IMPROVED TO CURRENT ADA STANDARDS IF THEY ARE NOT COMPLIANT (SEE APPENDIX A.)

WHEN A PROJECT CALLS FOR ONLY AN INTERSECTION TO BE REPAVED, THE INTERSECTION LIMITS AS DEFINED BY THE AREA OUTLINED BY OUTERMOST CROSSWALK LINES AND ADJACENT CURB FACES AND ALL ADJOINING CROSSWALKS AND CURB RAMPS MUST BE IMPROVED TO CURRENT ADA STANDARDS IF THEY ARE NOT COMPLIANT (SEE APPENDIX A).

WHEN WORK IS LIMITED TO A SINGLE CORNER OF AN INTERSECTION, THE CURB RAMP MUST BE IMPROVED TO CURRENT ADA STANDARDS AND THE ADJACENT PAVEMENT MUST BE RESURFACED, AS NECESSARY TO PROVIDE FOR A FLUSH TRANSITION (SEE APPENDIX A).

WHEN ADA WORK IS LIMITED TO A SINGLE CORNER OF AN INTERSECTION, THE ADJACENT PAVEMENT MUST BE RESTORED (SEE APPENDIX A).

FOR ANY CONSTRUCTION WHERE, WITHIN THE PROJECT LIMITS, AN ALLEY APRON IS ENCOUNTERED, THE ASSOCIATED CURB RAMPS, ALLEY APRON, AND SIDEWALKS MUST BE IMPROVED TO CURRENT ADA STANDARDS IF THEY ARE NOT COMPLIANT (SEE APPENDIX A).

II. SIDEWALK INSTALLATION / REPAIRS / RECONSTRUCTION

THE LIMITS OF ANY MAINLINE SIDEWALK REPLACEMENT, GREATER THAN TEN FEET (10') IN LENGTH, THAT ABUT AN EXISTING RAMP, KEYSTONE, TRANSITION PANEL, AND/OR LANDING AREA (THIS TOTAL LENGTH INCLUDES THE PRIOR ELEMENTS), SHALL BE EXTENDED TO INCLUDE THE AFFECTED RAMPS AND THESE RAMPS SHALL BE RECONSTRUCTED TO CURRENT ADA STANDARDS. IN ADDITION, ALL NEWLY PLACED SIDEWALK TEN FEET (10') OR MORE IN LENGTH SHALL BE CONSTRUCTED IN ACCORDANCE WITH ALL CURRENT APPLICABLE STANDARDS WHICH INCLUDE PROVIDING A MINIMUM FOUR FEET (4') WIDTH ACCESSIBLE PATHWAY WITH A CROSS SLOPE NOT TO EXCEED 1:64 (SEE APPENDIX A).

III. GUIDELINES FOR TRANSITIONING TO EXISTING NON-COMPLIANT CONDITION

NEW SIDEWALK PLACEMENTS GREATER THAN TEN FEET IN CONTIGUOUS LENGTH:

THE LIMITS OF ANY MAINLINE SIDEWALK REPLACEMENT, GREATER THAN TEN FEET (10') IN LENGTH, MUST BE EXTENDED FOR A MINIMUM FIVE ADDITIONAL FEET (5') EITHER SIDE IN ORDER TO PROVIDE A TRANSITION TO MATCH THE EXISTING SIDEWALK. THE LENGTH OF TRANSITION SHALL BE LENGTHENED AS NECESSARY TO ENSURE THAT THE RUNNING SLOPE OF THE TRANSITION DOES NOT EXCEED A SLOPE OF 1:24 (PREFERRED) OR 1:14 (MAXIMUM) AT ANY POINT.

NEW SIDEWALK REPLACEMENTS TEN FEET OR LESS IN CONTIGUOUS LENGTH (REPAIRS):

IT IS ACCEPTABLE PRACTICE TO MATCH ADJACENT SIDEWALKS AT THE EXISTING SLOPE.

CURB RAMP REPLACEMENTS

WHEN REPLACING AN ADA RAMP, THE SIDEWALK REPLACEMENT MUST EXTEND BEYOND THE LIMITS OF THE LANDING AREA AND/OR THE "KEYSTONE" A MINIMUM OF AN ADDITIONAL FIVE FEET (5') ON EITHER SIDE IN ORDER TO PROVIDE A TRANSITION TO MATCH THE EXISTING SIDEWALK. THE TRANSITION PANEL SHALL BE LENGTHENED AS NECESSARY TO ENSURE THAT THE RUNNING SLOPE OF THE TRANSITION PANEL DOES NOT EXCEED A SLOPE OF 1:24 (PREFERRED) OR 1:14 (MAXIMUM) AT ANY POINT.

NO EXCEPTIONS TO THE ABOVE WILL BE ALLOWED WITHOUT WRITTEN APPROVAL FROM THE COMMISSIONER.

City of Chicago — Rahm Emanuel, Mayor — Department of Transformation — Commissioner Gia Biagi — www.cityofchicago.org

CDOT — CHICAGO DEPARTMENT OF TRANSPORTATION

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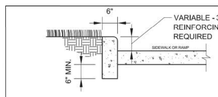
CITY OF CHICAGO
ADA COMPLIANCE AND TRANSITION GUIDELINES
SHEET B-3-4

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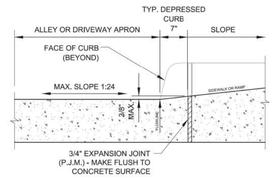
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2 C-502 ADA COMPLIANCE AND TRANSITION GUIDELINES

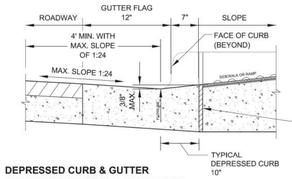
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SIDE CURB - SECTION



DEPRESSED CURB & GUTTER
AT ALLEY/DRIVEWAY APRON (TYPE 4 OR B CURB)



DEPRESSED CURB & GUTTER
AT BOTTOM OF TYPICAL CURB RAMP

NOTES FOR CURB & GUTTER DETAILS THIS SHEET:

A. CROSS SLOPE AT DEPRESSED CURB & GUTTER NOT TO EXCEED 1:64.

B. DETECTABLE WARNING SURFACE AT DRIVEWAYS REQUIRED ONLY FOR COMMERCIAL DRIVEWAYS WITH TRAFFIC CONTROL DEVICES, I.E. SIGNALS.

C. REFER TO *REGULATIONS FOR OPENINGS, CONSTRUCTION AND REPAIR IN THE PUBLIC WAY (CDOT)* FOR ADDITIONAL REQUIREMENTS FOR CURB AND GUTTER INSTALLATION.

D. RAMP SIDE FLARES SHALL BE INSTALLED AT ANY LOCATION WHERE THE SURFACE ADJACENT TO THE RAMP SURFACE IS INTENDED FOR PEDESTRIAN USE. TRIPPING HAZARDS, INCLUDING STEPS, DROP-OFFS, OR SIDE CURBS SHALL NOT BE LOCATED WITHIN THE LIMITS OF THE SIDEWALK.

E. "P.J.M." THIS SHEET REFERS TO PREFORMED JOINT MATERIAL.

City of Chicago — Rahm Emanuel, Mayor — Department of Transformation — Commissioner Gia Biagi — www.cityofchicago.org

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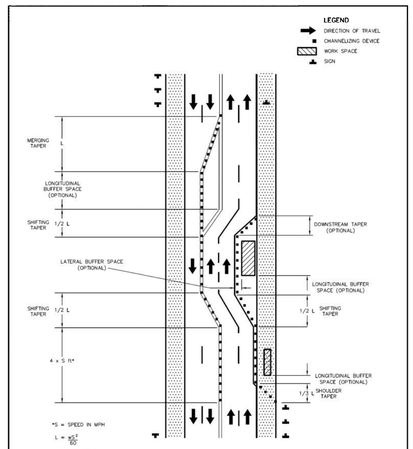
CITY OF CHICAGO
CURB & GUTTER DETAILS
SHEET B-4-3

SCALE: NOT TO SCALE
DATE: 10/23/2006

DRAWN BY: CDOT
CHECKED BY: LOM

3 C-502 CURB & GUTTER DETAILS

SCALE: N.T.S.

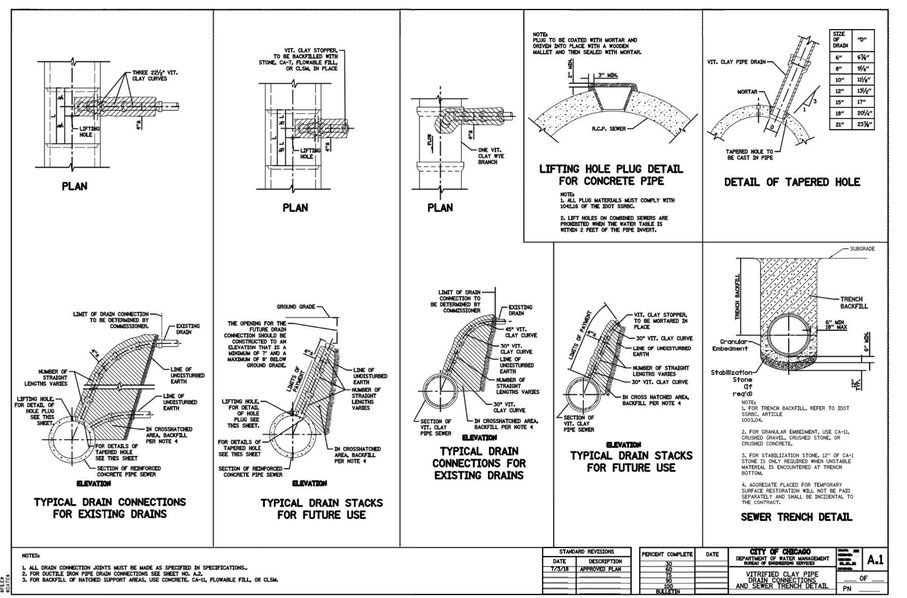


CDOT — CHICAGO DEPARTMENT OF TRANSPORTATION

DATE	REVISION	CITY OF CHICAGO
		COMPONENT PARTS OF A TEMPORARY TRAFFIC CONTROL ZONE
		DATE: 1/1/14 · SHEET: A-6-1B · DRAWN BY: CDOT

4 C-502 COMPONENT PARTS OF A TEMPORARY TRAFFIC CONTROL ZONE

SCALE: N.T.S.



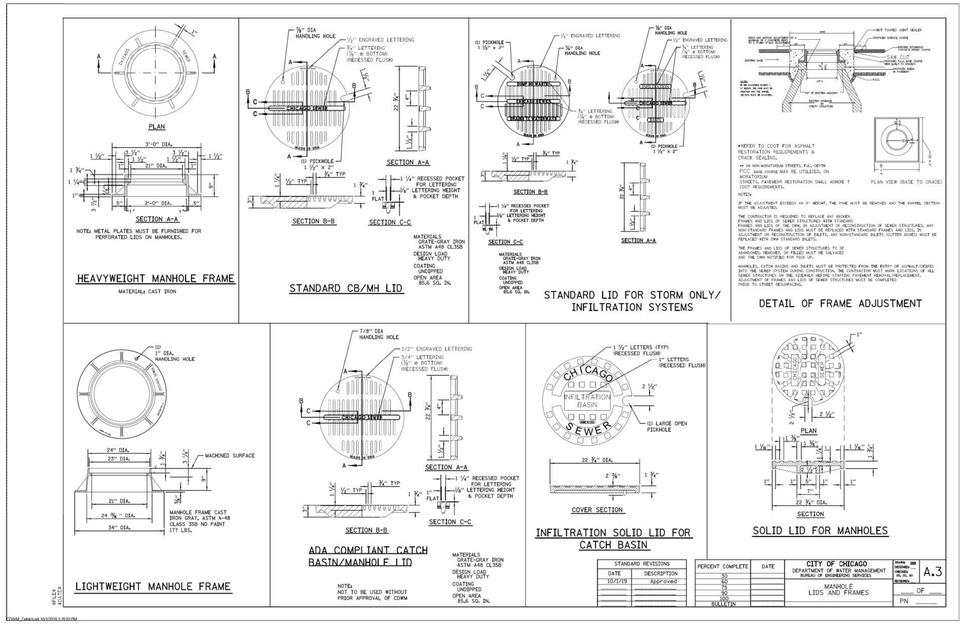
STANDARD REVISIONS	
DATE	DESCRIPTION
7/3/18	APPROVED PLAN

PERCENT COMPLETE	DATE
30	
60	
75	
90	
100	
BULLETIN	

CITY OF CHICAGO
DEPARTMENT OF WATER MANAGEMENT
BUREAU OF ENGINEERING SERVICES
VITRIFIED CLAY PIPE DRAIN CONNECTIONS AND SEWER TRENCH DETAIL
A.1
OF
PN

5 C-502 VITRIFIED CLAY PIPE DRAIN CONNECTIONS AND SEWER TRENCH DETAIL

SCALE: N.T.S.



STANDARD REVISIONS	
DATE	DESCRIPTION
10/1/19	Approved

PERCENT COMPLETE	DATE
30	
60	
75	
90	
100	
BULLETIN	

CITY OF CHICAGO
DEPARTMENT OF WATER MANAGEMENT
BUREAU OF ENGINEERING SERVICES
MANHOLE LIDS AND FRAMES
A.3
OF
PN

6 C-502 MANHOLE LIDS AND FRAMES

SCALE: N.T.S.

HNTB
HNTB Corporation
One South Wacker Drive, Suite 900
Chicago, Illinois 60606
(312) 930-9119

CHICAGO TRANSIT AUTHORITY
ENGINEERING

SENSITIVE SECURITY INFORMATION

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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	S. LASHOCK
CHECKED BY	J. SCHAEFER
DESIGNED BY	S. LASHOCK
DRAWN BY	L. SPARBER

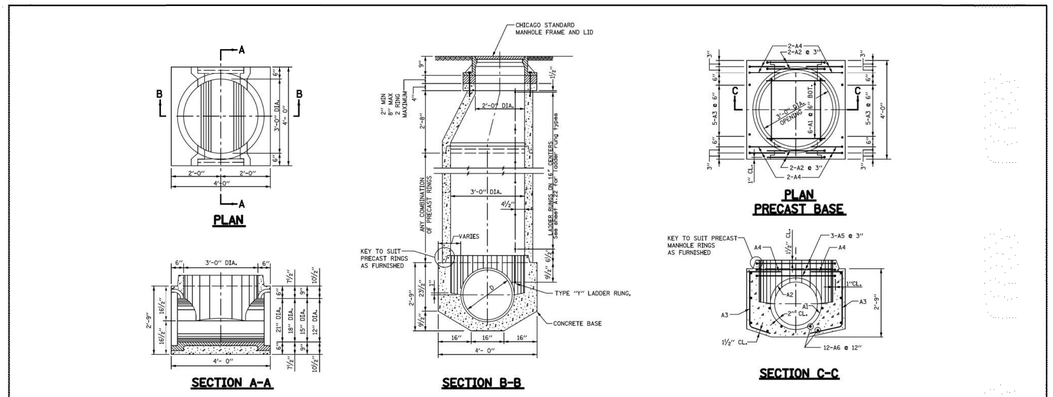
MARK	DATE	DESCRIPTION
0	12/30/24	ISSUE FOR BID

DETAILS
SHEET 3 OF 6

LSCAL | C-502

VOLUME: X OF X

PLOTTED ON: 11/5/2024 8:02:11 PM 050_LSCAL_C_502



NOTE:
6" MINIMUM GRANULAR EMBEDMENT
UNDER ALL PRECAST MANHOLE BASES

SCHEDULE OF REINFORCEMENT

STRUCTURE	MARK	REINFORCEMENT BAR SIZE NO.	TYPE	LENGTH	NO. REQD.	WEIGHT – LBS EACH	TOTAL	BENDING DIMENSIONS A	B	C	D	E	F	G	H	J	K	O	R
BASES FOR TYPE "A" MANHOLES (PRECAST) 21" DIA.	21A1	6	9	3'-1"	6	4.63	28		3'-1"						11¼"		2'-1"	12¾"	
	21A2	6	T3	8'-8"	4	13.02	52										2'-0"	2'-1½"	
	21A3	5	12	3'-3"	10	3.39	34		22½"	17½"					14½"		8¾"		
	21A4	5	12	4'-6"	8	4.69	38		15"	22½"	17½"				14½"		8¾"		
	21A5	5	T3	11'-11"	3	12.43	37										20"	3'-3¼"	
	21A6	4	ISTR	3'-8"	12	2.45	30												
	TOTAL						219												
BASES FOR TYPE "A" MANHOLES (PRECAST) 18" DIA.	18A1	6	9	2'-8½"	6	4.07	24		2'-8½"							9¾"		2½"	11¼"
	18A2	6	T3	7'-10½"	4	11.53	47										2'-0"	1'-10½"	
	18A3	5	12	3'-3"	10	3.39	34		22½"	17½"					14½"		8¾"		
	18A4	5	12	4'-6"	8	4.69	38		15"	22½"	17½"				14½"		8¾"		
	18A5	5	T3	11'-11"	3	12.43	37										2'-0"	3'-3¼"	
	18A6	4	ISTR	3'-8"	12	2.45	30												
	TOTAL						202												
BASES FOR TYPE "A" MANHOLES (PRECAST) 15" DIA.	15A1	6	9	2'-3½"	6	3.44	21		2½"						8¼"		1'-	9¾"	
	15A2	6	T3	7'-1"	4	10.64	42										2'-0"	1'-1"	
	15A3	5	12	3'-3"	10	3.39	34		22½"	17½"							8¾"		
	15A4	5	12	4'-6"	8	4.69	38		15"	22½"	17½"				14½"		8¾"		
	15A5	5	T3	11'-11"	3	12.43	37								14½"		20"	3'-3¾"	
	15A6	4	ISTR	3'-8"	12	2.45	30												
	TOTAL						202												
	12A1	6	9	1'-11"	6	2.88	17		2½"						6¾"		1'-	8¼"	
	12A2	6	T3	6'-1"	4	9.14	37										2'-0"	1'-1"	
	12A3	5	12	3'-3"	10	3.39	34		22½"	17½"					14½"		8¾"		
	12A4	5	12	4'-6"	8	4.69	38		22½"	17½"					14½"		8¾"		
	12A5	5	T3	11'-11"	3	12.43	37										20"	3'-3¼"	
	12A6	4	ISTR	3'-8"	12	2.45	30												
	TOTAL						193												

STANDARD REVISIONS	
DATE	DESCRIPTION
9/5/17	REVISION

PERCENT COMPLETE	DATE
30	
60	
90	
100	
BULLETIN	

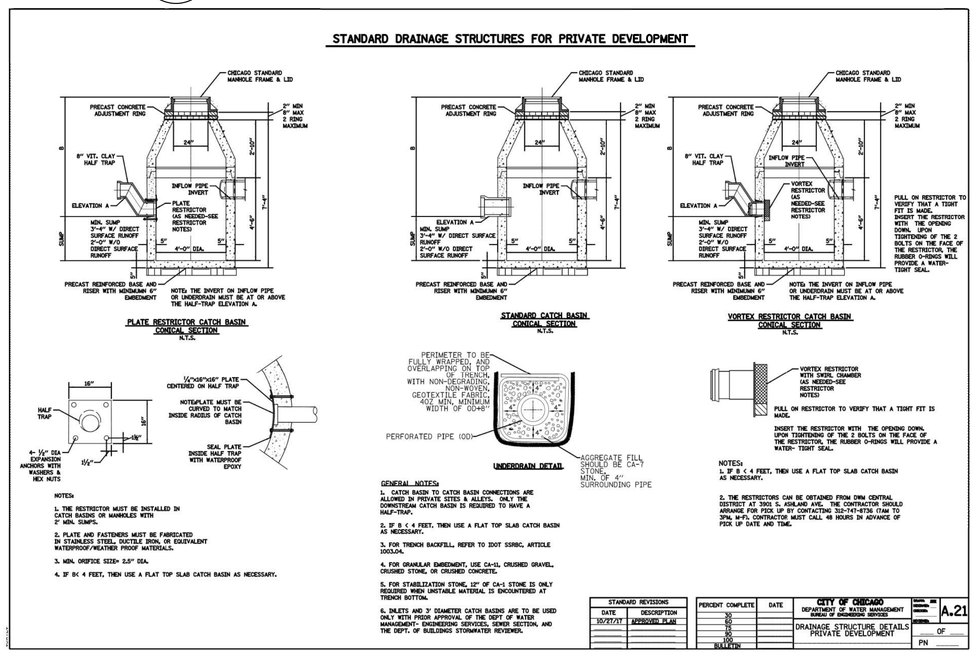
CITY OF CHICAGO
DEPARTMENT OF WATER MANAGEMENT
BUREAU OF ENGINEERING SERVICES

TYPE "A" PRECAST MANHOLE FOR SEWERS 21" DIA. AND SMALLER

DESIGNED
DRAWN
CHECKED
DATE
SCALE: NONE
A.5
OF
PN

1 C-503 DRAINAGE STRUCTURE DETAILS

SCALE: N.T.S.



STANDARD REVISIONS	
DATE	DESCRIPTION
10/27/17	APPROVED PLAN

PERCENT COMPLETE	DATE
30	
60	
90	
100	
BULLETIN	

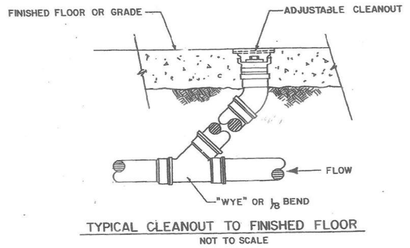
CITY OF CHICAGO
DEPARTMENT OF WATER MANAGEMENT
BUREAU OF ENGINEERING SERVICES

DRAINAGE STRUCTURE DETAILS PRIVATE DEVELOPMENT

DESIGNED
DRAWN
CHECKED
DATE
SCALE: NONE
A.21
OF
PN

2 C-503 DRAINAGE STRUCTURE DETAILS PRIVATE DEVELOPMENT

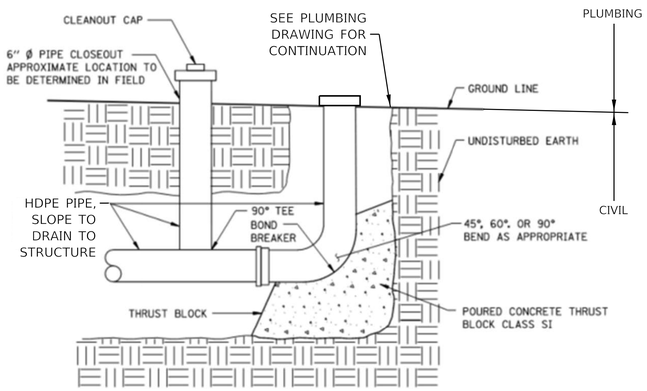
SCALE: N.T.S.



TYPICAL CLEANOUT TO FINISHED FLOOR
NOT TO SCALE

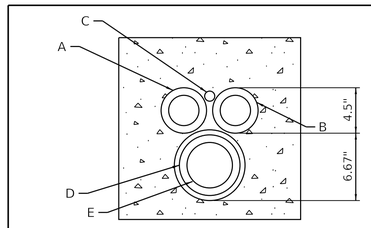
Note: May be used for pipe sizes smaller than 12" in diameter to segment pipe lengths exceeding 150 feet.

3 C-503 TYPICAL CLEANOUT TO FINISHED FLOOR



4 C-503 DOWNSPOUT CONNECTION UNDERGROUND

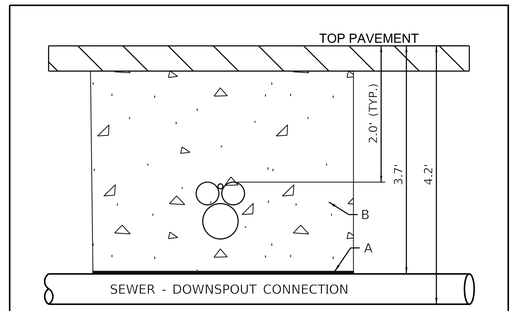
SCALE: N.T.S.



A. 3" HDPE CONTAINING TRAVELING CABLE
B. 3" HDPE CONTAINING HOISTWAY WIRE
C. 1" FRE CONDUIT FOR PIT DEVICES
D. 6" HDPE INSULATED HYDRAULIC LINE
E. SCHEDULE 80, 4"

5 C-503 EQUIPMENT SECTION

SCALE: N.T.S.



A. 1/4" STEEL PLATE (12" WIDTH)
B. TRENCH BACKFILL

6 C-503 STEEL PLATE

SCALE: N.T.S.

HNTB
HNTB Corporation
One South Wacker Drive, Suite 900
Chicago, Illinois 60606
(312) 930-9119

CHICAGO TRANSIT AUTHORITY
ENGINEERING

SENSITIVE SECURITY INFORMATION

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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	S. LASHOCK
CHECKED BY	J. SCHAEFER
DESIGNED BY	S. LASHOCK
DRAWN BY	L. SPARBER

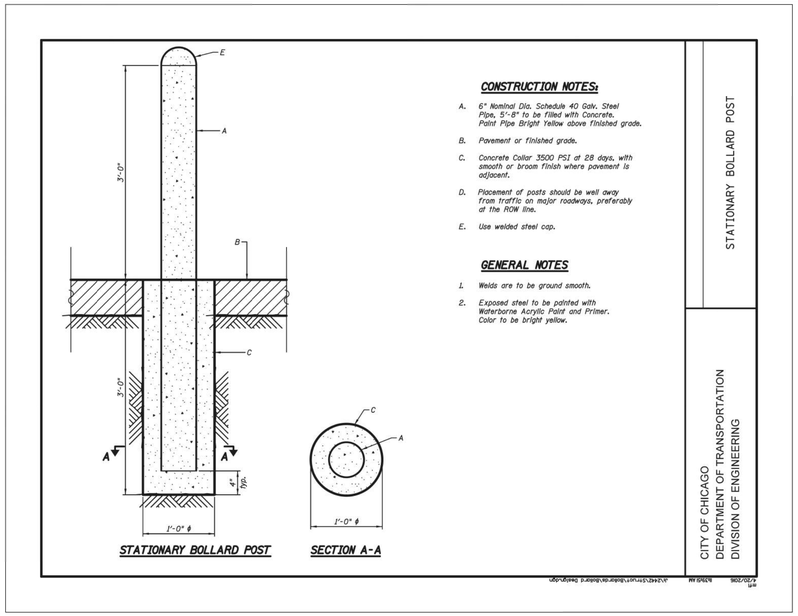
MARK	DATE	DESCRIPTION
0	12/30/24	ISSUE FOR BID

DETAILS
SHEET 4 OF 6

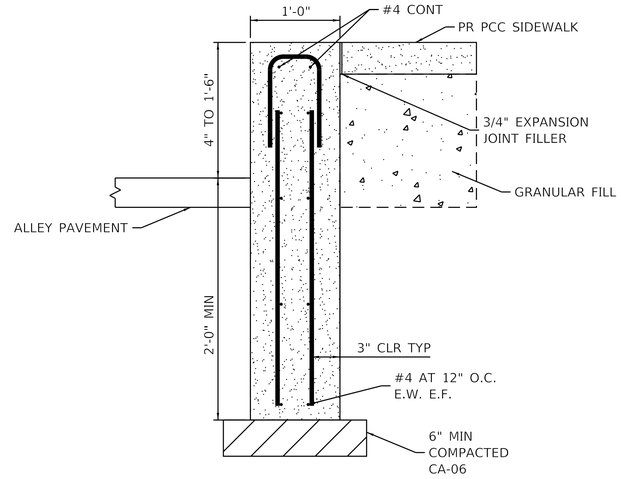
LSCAL | C-503

VOLUME: X OF X

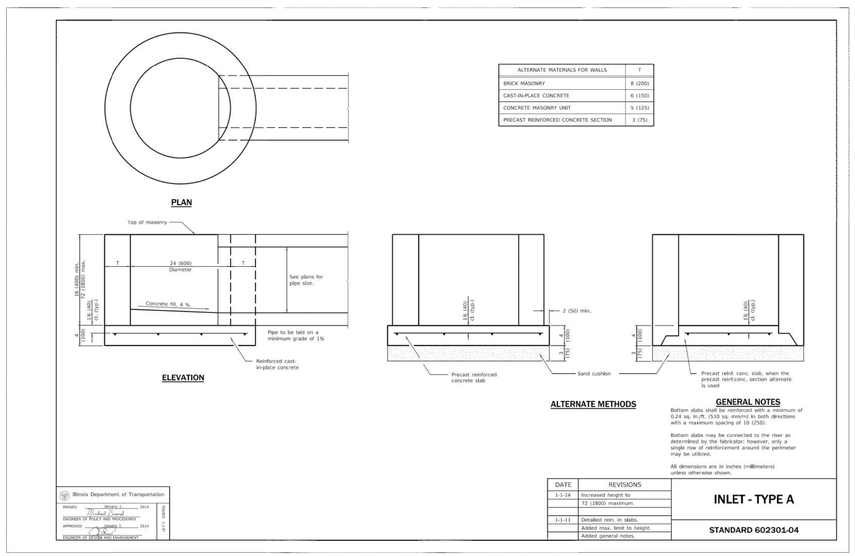
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1 C-504 STANDARD BOLLARD POST
SCALE: N.T.S.



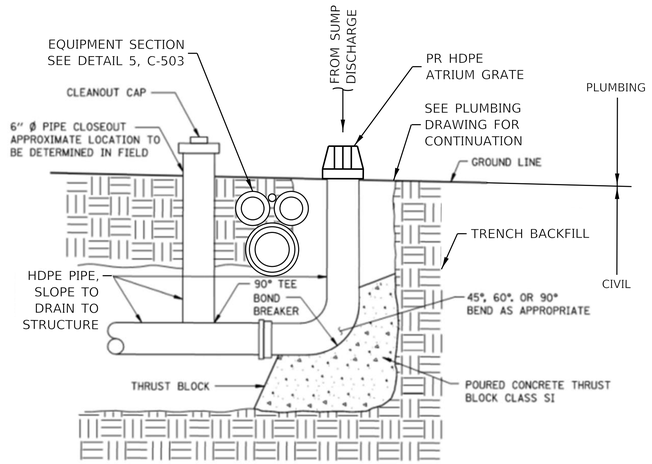
2 C-504 BARRIER CURB
SCALE: N.T.S.



ALTERNATE MATERIALS FOR WALLS	T
BRICK MASONRY	8 (200)
CAST-IN-PLACE CONCRETE	6 (150)
CONCRETE MASONRY UNIT	5 (125)
PRECAST REINFORCED CONCRETE SECTION	3 (75)

DATE	REVISIONS
1-1-14	Increased height to 72 (1800) maximum.
1-1-11	Detailed rein. in slabs.
	Added max. limit to height.
	Added general notes.

3 C-504 INLET - TYPE A
SCALE: N.T.S.



4 C-504 PR HDPE ATRIUM GRATE
SCALE: N.T.S. SCALE: N.T.S.

HNTB
HNTB Corporation
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Chicago, Illinois 60606
(312) 930-9119

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ALL STATIONS ACCESSIBILITY PROGRAM

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CHICAGO, ILLINOIS 60647

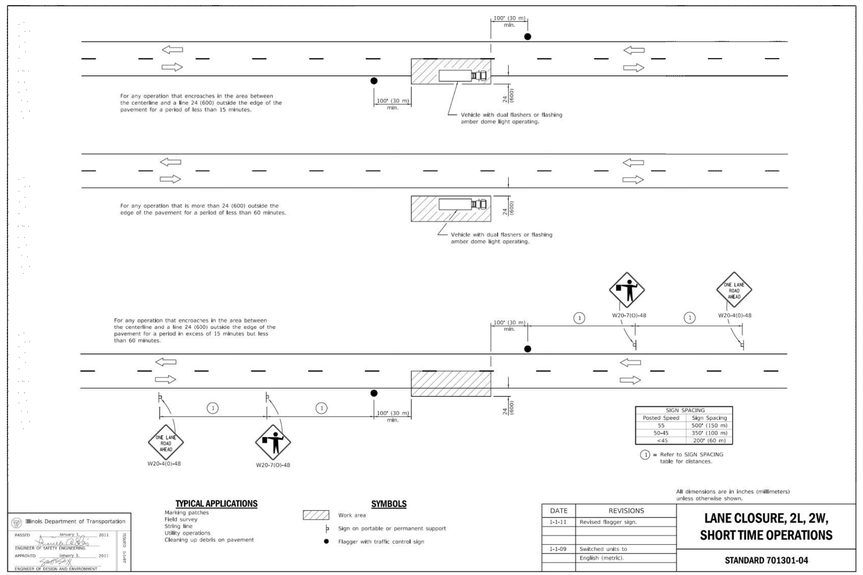
PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	S. LASHOCK
CHECKED BY	J. SCHAEFER
DESIGNED BY	S. LASHOCK
DRAWN BY	L. SPARBER

MARK	DATE	DESCRIPTION
0	12/30/24	ISSUE FOR BID

DETAILS
SHEET 5 OF 6

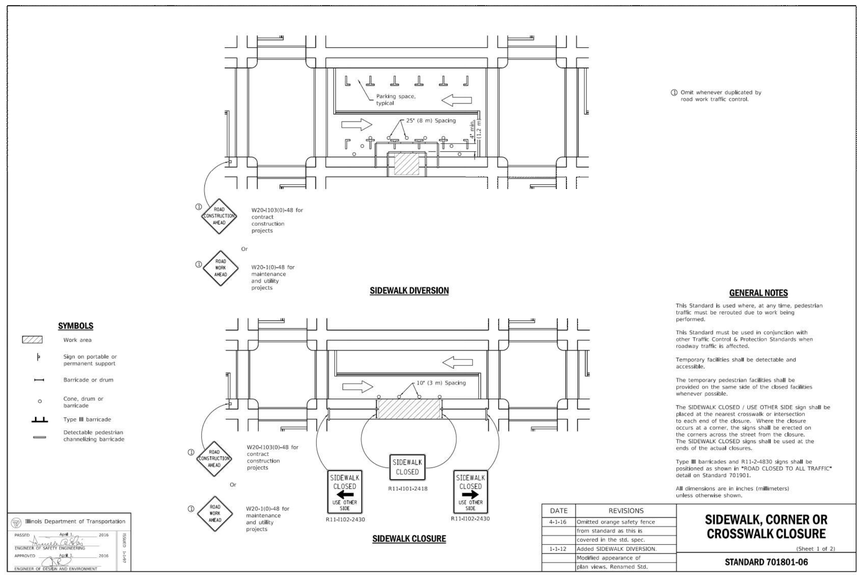
LSCAL | C-504
VOLUME: X OF X

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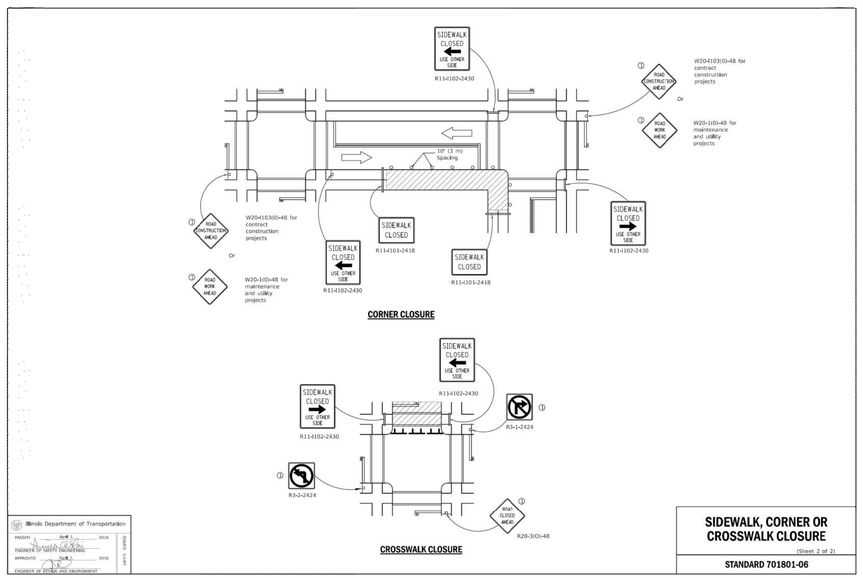
1 C-505 LANE CLOSE, 2L, 2W, SHORT TIME OPERATIONS

SCALE: N.T.S.



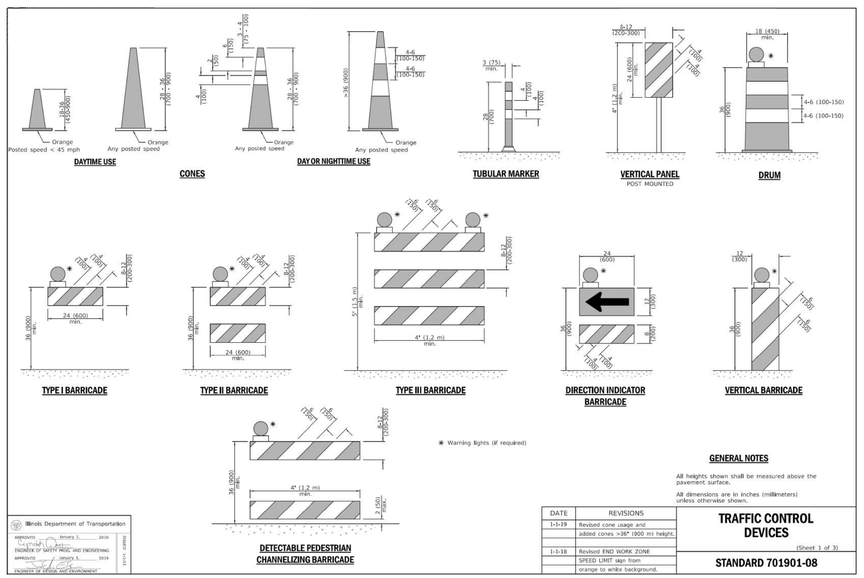
2 C-505 SIDEWALK, CORNER OR CROSSWALK CLOSURE

SCALE: N.T.S.



3 C-505 SIDEWALK, CORNER OR CROSSWALK CLOSURE CONT.

SCALE: N.T.S.



4 C-505 TRAFFIC CONTROL DEVICES

SCALE: N.T.S.

HNTB
HNTB Corporation
One South Wacker Drive, Suite 900
Chicago, Illinois 60606
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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

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CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	S. LASHOCK
CHECKED BY	J. SCHAEFER
DESIGNED BY	S. LASHOCK
DRAWN BY	L. SPARBER

MARK	DATE	DESCRIPTION
0	12/30/24	ISSUE FOR BID

DETAILS
SHEET 6 OF 6

LSCAL | C-505

VOLUME: X OF X

PLOTTED ON: 11/5/2024 8:04:21 PM 050_LSCAL_C_505

MAINTENANCE OF TRAFFIC GENERAL NOTES

1. ALL SIGNING MUST BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION, THE DETAILS IN THESE PLANS, THE LATEST EDITION OF THE IDOT BUREAU OF DESIGN AND ENVIRONMENT HIGHWAY STANDARDS AND THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."

2. LONGITUDINAL DIMENSIONS SHOWN ON THESE PLANS MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL BARRICADES, SIGNS, LIGHTS, AND OTHER DEVICES INSTALLED ARE IN PLACE AND OPERATING 24 HOURS EACH DAY INCLUDING SUNDAYS AND HOLIDAYS DURING THE TIME THIS CONSTRUCTION STAGING IS IN EFFECT.

4. ALL EXISTING SIGNING THAT IS NOT APPLICABLE WHILE THE CONSTRUCTION IS IN EFFECT MUST BE COMPLETELY COVERED BY THE CONTRACTOR.

5. THE SIZES OF ALL SIGNS NOT SPECIFIED IN THESE PLANS SHALL BE AS REQUIRED BY THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

6. AS A MINIMUM, ALL AMBER FLASHING LIGHTS THAT ARE REQUIRED MUST MEET THE REQUIREMENTS FOR TYPE A - LOW INTENSITY FLASHING LIGHTS IN ARTICLE 702.04 OF THE STANDARD SPECIFICATIONS. ALL LIGHTS SHALL OPERATE DURING HOURS OF DARKNESS. ONLY LIGHTS THAT HAVE BEEN APPROVED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION MUST BE USED.

7. THE CONTRACTOR MUST MAINTAIN ACCESS TO ALL PRIVATE AND COMMERCIAL DRIVEWAYS DURING CONSTRUCTION.

8. SIDEWALK ACCESS MUST BE MAINTAINED ON ONE SIDE OF THE STREET AT ALL TIMES. CLOSED SIDEWALKS MUST BE APPROPRIATELY BARRICADED. USE IDOT STANDARD 701801-06.

9. THE "SIDEWALK CLOSED / USE OTHER SIDE" SIGN MUST BE PLACED AT THE NEAREST CROSSWALK OR INTERSECTION TO EACH END OF THE CLOSURE. WHEN THE CLOSURE OCCURS AT A CORNER, THE SIGNS MUST BE ERECTED ON THE CORNER ACROSS THE STREET FROM THE CLOSURE. THE "SIDEWALK CLOSED" SIGNS MUST BE USED AT THE ENDS OF THE ACTUAL CLOSURES.

10. ALL WALKWAYS MUST BE CLEARLY IDENTIFIED AND ADEQUATELY PROTECTED FROM MOTOR VEHICLE TRAFFIC AND FREE OF ANY OBSTRUCTIONS AND HAZARDS SUCH AS HOLES, DEBRIS, MUD, CONSTRUCTION EQUIPMENT, STORED MATERIALS, ETC.

11. ALL HAZARDS, DITCHES, TRENCHES, EXCAVATIONS, ETC. NEAR OR ADJACENT TO WALKWAYS MUST BE CLEARLY DELINEATED AND ADEQUATELY PROTECTED.

12. WHERE A HANDICAPPED PEDESTRIAN RAMP IS RESTRICTED DUE TO CLOSURE, TEMPORARY RAMPS SHALL BE PROVIDED PER CDOT STANDARD A-6-3.

13. PROPOSED MAINTENANCE OF TRAFFIC SIGNING MUST BE COVERED OR REMOVED WHEN NOT REQUIRED DURING A SPECIFIC STAGE OF CONSTRUCTION.

14. CHANGEABLE MESSAGE SIGNS TO BE PROVIDED AT CDOT'S DIRECTION.

15. THE CONTRACTOR MUST CONDUCT HIS WORK IN SUCH A MANNER THAT EMERGENCY VEHICLES WILL HAVE ACCESS TO THE AREA AT ALL TIMES.

16. THE CONTRACTOR MUST NOTIFY CDOT AS REQUIRED 72 HOURS IN ADVANCE OF BEGINNING WORK.

17. THE CONTRACTOR MUST NOTIFY THE CHICAGO TRANSIT AUTHORITY (CTA) TWO WEEKS IN ADVANCE OF ANY LANE OR STREET CLOSURE THAT COULD IMPACT CTA BUS SERVICE.

18. WHERE WORK AREAS ARE NOT SEPARATED FROM TRAFFIC BY TEMPORARY CONCRETE BARRIER WALL, WORK ON BOTH SIDES OF THE ROADWAY IN THE SAME DIRECTION, DURING THE SAME PERIOD WILL NOT BE ALLOWED.

19. ALL TRAFFIC CONTROL SIGNS AND DEVICES, WORK ZONE PAVEMENT MARKING, TEMPORARY CONCRETE BARRIERS AND ATTENUATORS NECESSARY FOR THE MAINTENANCE OF TRAFFIC, AS SHOWN ON THE PLANS, SHALL BE IN PLACE BEFORE THE START OF ANY CONSTRUCTION STAGE.

20. ALL CONSTRUCTION WARNING SIGNS SHALL BE BLACK LEGEND ON ORANGE BACKGROUND. ALL CONSTRUCTION WARNING SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE SHOWN ON THE PLANS.

MAINTENANCE OF TRAFFIC GENERAL NOTES (CONTINUED)

21. ALL "ROAD CONSTRUCTION AHEAD" WARNING SIGNS SHALL BE EQUIPPED WITH TYPE A MONO-DIRECTIONAL FLASHING LIGHT.

22. THE CONTRACTOR SHALL PLACE CHANGEABLE MESSAGE SIGN(S) TO INFORM MOTORISTS OF UPCOMING CONSTRUCTION ACTIVITIES. THE LOCATION SHALL BE AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER. THE MESSAGE SIGN SHALL BE IN PLACE TWO WEEKS PRIOR TO START OF CONSTRUCTION ACTIVITIES. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CALENDAR DAYS FOR "CHANGEABLE MESSAGE SIGN."

23. WORKERS SIGN SHALL BE USED ONLY WHEN WORKERS ARE PRESENT.

24. THE APPROVAL OF THE ENGINEER SHALL BE REQUIRED FOR ALL TEMPORARY TRAFFIC BARRIER WALL OPENINGS NOT SHOWN ON THE PLANS. THE APPROACH END OF TEMPORARY TRAFFIC BARRIER SHALL BE PROTECTED WITH AN NCHRP 350 APPROVED END TREATMENT.

25. BARRIER WALL MARKERS SHALL BE INSTALLED ON BOTH THE FACE OF THE TEMPORARY CONCRETE BARRIER WALL NEXT TO TRAFFIC, AND THE TOP OF SECTIONS OF THE TEMPORARY CONCRETE BARRIER WALL AS SHOWN IN IDOT STANDARD 704001. THE COLOR OF THESE REFLECTORS SHALL MATCH THE COLOR OF THE EDGELINES (YELLOW ON THE LEFT AND CRYSTAL OR WHITE ON THE RIGHT). IF THE BASE OF THE TEMPORARY CONCRETE BARRIER WALL IS 12 INCHES OR LESS FROM THE TRAVEL LANE, THEN THE LOWER SLOPE OF THE WALL SHALL ALSO HAVE A 6 INCH WIDE TEMPORARY PAVEMENT MARKING EDGELINE (YELLOW ON THE LEFT AND WHITE ON THE RIGHT). TEMPORARY PAVEMENT MARKING ON THE LOWER SLOPE OF THE TEMPORARY CONCRETE BARRIER WALL WILL BE MEASURED AND PAID FOR AS TEMPORARY PAVEMENT MARKING - LINE 6" - TYPE III TAPE.

26. ACCESS TO PRIVATE PROPERTIES SHALL BE PROVIDED AT ALL TIME DURING CONSTRUCTION.

27. SECURE AND RESTRICT PEDESTRIAN ACCESS WITHIN LIMITS OF REMOVAL AND PROPOSED IMPROVEMENTS THROUGHOUT CONSTRUCTION.

28. GRADING AROUND PROPOSED TEMPORARY STATIONHOUSE TO FACILITATE FLOW OF WATER AWAY FROM THE STATIONHOUSE. FINAL GRADING TO ENSURE FLOW TO DRAINAGE STRUCTURES. REMOVAL AND REPLACEMENT OF PAVEMENT TO BE DONE AS NECESSARY TO CREATE ADA COMPLIANT PEDESTRIAN PATHS.

29. CONTRACTOR TO PROVIDE ADA ACCESSIBLE PEDESTRIAN ROUTES AT ALL TIMES. CONTRACTOR TO UTILIZE CDOT STANDARD A-6-3 OR, IF NECESSARY, REMOVE PAVEMENT AND PLACE TEMPORARY SIDEWALK.

30. CONTRACTOR TO PROVIDE OVERHEAD PROTECTION SYSTEMS FOR PEDESTRIANS IN THE WORK ZONE WHERE WORK IS OCCURING.

PRESTAGE 1 CONSTRUCTION NOTES:

MAINTAIN NO PARKING ALONG NORTH SIDE OF ST. GEORGES COURT FROM N STAVE STREET TO N MILWAUKEE AVENUE.

INSTALL TEMPORARY SIGNING, STRIPING, TEMPORARY CONCRETE BARRIER, AND OTHER TRAFFIC CONTROL DEVICES NECESSARY FOR THE STAGE 1 TRAFFIC CONFIGURATION, INCLUDING ANY NECESSARY MODIFICATIONS TO THE EXISTING SIGNS.

STAGE 1 CONSTRUCTION NOTES

STAGE 1 CORRESPONDS TO PHASES 1-4 ON SHEETS G-011 AND G-012. PERMANENT STATIONHOUSE TO BE OPEN AT ALL TIMES. PLATFORMS TO BE OPENED AND CLOSED AS STATED ON G-011 AND G-012.

CONSTRUCTION OF FOUNDATIONS, DRAINAGE STRUCTURES, PLATFORM WIDENING, AND CTA TEMPORARY STATIONHOUSE AT ST. GEORGES COURT.

ST. GEORGES COURT

MAINTENANCE OF TRAFFIC:

1. MAINTAIN EXISTING TRAFFIC CONFIGURATION ALONG ST. GEORGES COURT AND PROHIBIT PARKING ON THE NORTH SIDE OF ST. GEORGES COURT FROM N STAVE STREET TO N MILWAUKEE AVENUE.
2. CLOSE DRIVEWAYS AND SIDEWALK AS SHOWN ON THE PLANS.
3. PEDESTRIANS TO BE DETOURED AS NOTED ON PLANS.

CONSTRUCTION ACTIVITY:

1. ERECT SHORING TOWERS AS REQUIRED TO PERFORM RETROFITS, PLATFORM WIDENING, AND PLATFORM CANOPY CONSTRUCTION.
2. REMOVAL OF DRIVEWAYS, SIDEWALK, ADJACENT PAVEMENT, AND NARROW SECTION OF STATION PLATFORM.
3. ADJUST UTILITIES AS NECESSARY.
4. INSTALLATION OF STAIR FOUNDATIONS AND PLATFORM WIDENING.
5. CONSTRUCTION OF PROPOSED DRAINAGE, UNDERGROUND UTILITIES, SIDEWALK, AND CURB AND GUTTER.
6. CONSTRUCT TEMPORARY STATIONHOUSE ENCLOSURE AND EQUIPMENT. PROPOSED TEMPORARY AGGREGATE TO BE PLACED NORTHWEST OF INSTALLED 6" CURB AT THE TEMPORARY STATIONHOUSE WITHIN THE LIMITS OF PROPOSED PAVEMENT RESTORATION TO FACILITATE DRAINAGE FOR THE TEMPORARY STATIONHOUSE.

PRESTAGE 2 CONSTRUCTION NOTES:

MAINTAIN NO PARKING ALONG NORTH SIDE OF ST. GEORGES COURT FROM N STAVE STREET TO N MILWAUKEE AVENUE.

MAINTAIN NO PARKING ALONG N CALIFORNIA AVE FROM W PALMER STREET TO N MILWAUKEE AVENUE.

PROVIDE TEMPORARY CTA BUS STOPS AT N MILWAUKEE AVENUE AND W ST. GEORGES COURT.

COORDINATE TEMPORARY CTA BUS STOPS WITH CTA 14 DAYS PRIOR TO WORK.

PROVIDE ACCESSIBLE PEDESTRIAN ROUTE FROM RELOCATED BUS STOPS TO TEMPORARY STATIONHOUSE AT ALL TIMES.

SECURE STATIONHOUSE PLAZA AS NECESSARY AND PROHIBIT PEDESTRIAN ACCESS.

PLACE SIGNAGE AS REQUIRED BY THE CTA TO DIRECT PEDESTRIAN TRAFFIC TO TEMPORARY STATIONHOUSE AT ST. GEORGES COURT AND COVER CONFLICTING SIGNAGE.

REMOVE AND STORE EXISTING BIKE RACKS ALONG N. CALIFORNIA AVE AS SHOWN IN THE DEMOLITION PLAN.

INSTALL TEMPORARY SIGNING, STRIPING, TEMPORARY CONCRETE BARRIER, AND OTHER TRAFFIC CONTROL DEVICES NECESSARY FOR THE STAGE 2 TRAFFIC CONFIGURATION, INCLUDING ANY NECESSARY MODIFICATIONS TO THE EXISTING SIGNS.

IDENTIFY AND PREPARE TRACTION POWER, SIGNALS, AND OTHER UTILITIES FOR TEMPORARY CONDITIONS.

STAGE 2 CONSTRUCTION NOTES:

STAGE 2 CORRESPONDS TO PHASES 5-8 ON SHEETS G-012 AND G-013. TEMPORARY STATIONHOUSE OPEN AND PERMANENT STATIONHOUSE CLOSED AT ALL TIMES. PLATFORMS TO BE OPENED AND CLOSED AS STATED ON G-012 AND G-013.

CONSTRUCTION OF MICROPILES, FOUNDATIONS, DRAINAGE, HYDRAULIC LINES, ELECTRICAL BUILDING, ELEVATOR MACHINE ROOMS, ELEVATOR TOWERS, ELEVATORS, AND STAIRS.

N. CALIFORNIA AVE

MAINTENANCE OF TRAFFIC:

1. ONE NORTHBOUND LANE WILL BE MAINTAINED AND ONE SOUTHBOUND LANE WILL BE MAINTAINED THROUGHOUT THE CONSTRUCTION LIMITS.
2. BICYCLE LANES WILL MERGE INTO VEHICULAR LANES. THE TWO LANES WILL OPERATE AS SHARED USE LANES.
3. PEDESTRIANS TO BE DETOURED AS NOTED ON PLANS.

CONSTRUCTION ACTIVITY:

1. ERECT SHORING TOWERS AS REQUIRED.
2. REMOVE EXISTING SIDEWALK, FENCE, AND STAIRS.
3. INSTALL REQUIRED EARTH RETENTION SYSTEM AND ANY ADJACENT UNDERPINNING THAT MAY BE NECESSARY.
4. REMOVE EXISTING DRAINAGE STRUCTURES, ELECTRICAL CONDUIT, AND ELECTRICAL CABINETS. ADJUST UTILITIES AS NECESSARY.
5. CONSTRUCT ELEVATOR PITS AND FOUNDATIONS FOR THE STAIRS, PLATFORM COLUMNS, AND PROPOSED ELECTRICAL BUILDING.
6. REGRADE THE FRONT OF THE STATIONHOUSE.
7. CONSTRUCT NEW DRAINAGE AND HYDRAULIC LINES, ELEVATOR MACHINE ROOMS, INBOUND AND OUTBOUND ELEVATORS, STAIRS, BOLLARDS, AND SIDEWALK.
8. CONSTRUCT ELEVATOR TOWERS, PLATFORMS, DECKING, AND CANOPY.
9. PLACE PERMANENT PAVEMENT MARKINGS.
10. REINSTALL BIKE RACKS.
11. CONSTRUCT FENCE IN REAR PLAZA FOLLOWING PROPOSED IMPROVEMENTS.

STAGE 3 CONSTRUCTION NOTES:

STAGE 3 CORRESPONDS TO PHASE 9 ON SHEET G-013. PERMANENT STATIONHOUSE OPEN.

TEMPORARY STATIONHOUSE TO BE DEMOLISHED, BOLLARDS TO BE INSTALLED, SIDEWALK AND PAVEMENT TO BE REPAIRED AS NECESSARY.

ST. GEORGES COURT

MAINTENANCE OF TRAFFIC:

1. PEDESTRIANS TO BE DETOURED AS NOTED ON PLANS.

CONSTRUCTION ACTIVITY:

1. TEMPORARY STATIONHOUSE TO BE DEMOLISHED. BOLLARDS TO BE INSTALLED. SIDEWALK AND PAVEMENT TO BE REPAIRED AS NECESSARY.

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CHICAGO TRANSIT AUTHORITY
ENGINEERING

SENSITIVE SECURITY INFORMATION

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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	S. LASHOCK
CHECKED BY	S. LASHOCK
DESIGNED BY	J. SCHAEFER
DRAWN BY	J. SCHAEFER

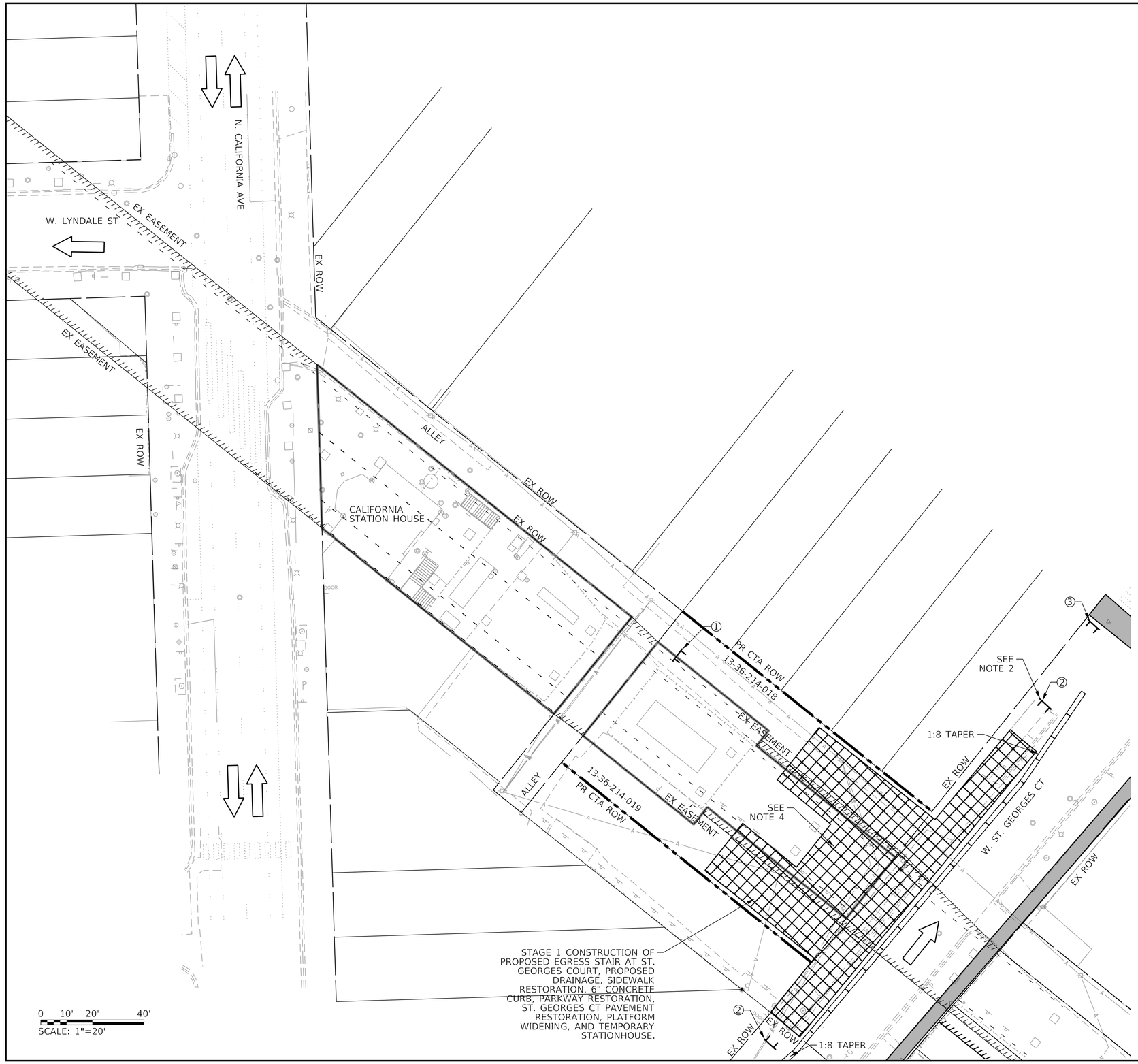
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STAGING NOTES

LSCAL | CX-001

VOLUME: X OF X

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LEGEND:

- WORK AREA
- DIRECTION OF VEHICLE TRAFFIC
- PEDESTRIAN ACCESS ROUTE
- TYPE III BARRICADE WITH FLASHING LIGHTS

ROAD CLOSED

① R11-2-4830 (ON BARRICADE)

SIDEWALK CLOSED

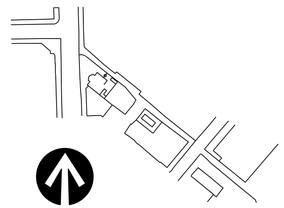
②R11-I101-2418 (ON BARRICADE)

SIDEWALK CLOSED AHEAD
CROSS HERE

③ R9-11

NOTES

1. ELIMINATE PARKING ALONG NORTH SIDE OF ST. GEORGES COURT FROM N STAVE STREET TO N MILWAUKEE AVENUE.
2. SEE SHEET CX-400 FOR PEDESTRIAN DETOUR.
3. CONTRACTOR TO PROVIDE SECURITY MEASURES TO PREVENT UNAUTHORIZED ACCESS TO WORK ZONE AT ALL TIMES SUCH AS FENCING, WALLS, BARRIERS, AND GATES.
4. PROPOSED TEMPORARY AGGREGATE TO BE PLACED NORTHWEST OF INSTALLED 6" CURB WITHIN LIMITS OF PROPOSED PAVEMENT RESTORATION TO FACILITATE DRAINAGE FOR THE TEMPORARY STATIONHOUSE.
5. CONTRACTOR TO PROVIDE ADA ACCESSIBLE PEDESTRIAN ROUTES AT ALL TIMES. CONTRACTOR TO UTILIZE CDOT STANDARD A-6-3 OR, IF NECESSARY, REMOVE PAVEMENT AND PLACE TEMPORARY SIDEWALK.
6. ACCESS TO PRIVATE PROPERTIES SHALL BE PROVIDED AT ALL TIME DURING CONSTRUCTION.



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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

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CHECKED BY	S. LASHOCK
DESIGNED BY	J. SCHAEFER
DRAWN BY	J. SCHAEFER

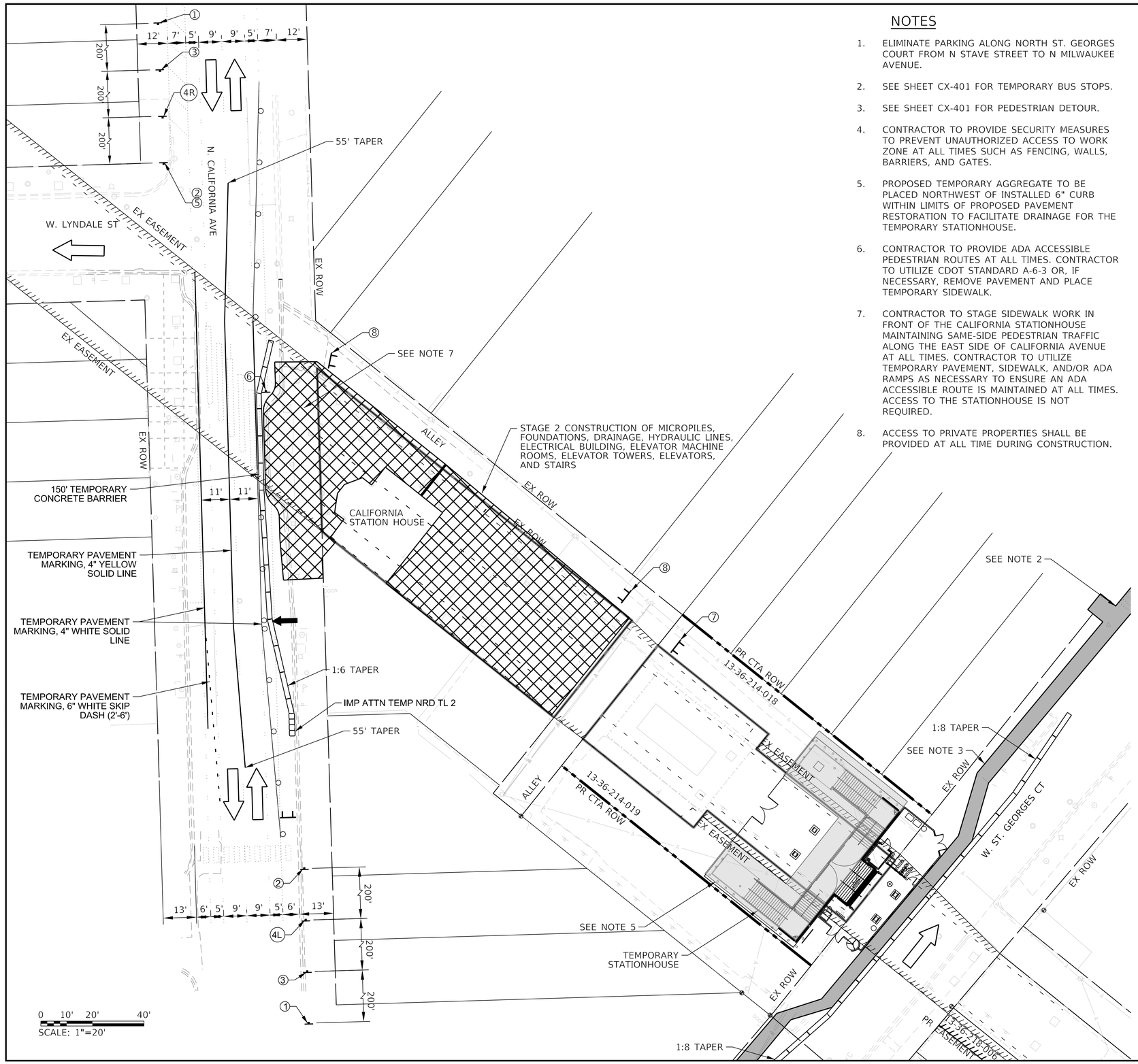
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STAGING PLAN STAGE 1

LSCAL | CX-100

VOLUME: X OF X

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NOTES

1. ELIMINATE PARKING ALONG NORTH ST. GEORGES COURT FROM N STAVE STREET TO N MILWAUKEE AVENUE.
2. SEE SHEET CX-401 FOR TEMPORARY BUS STOPS.
3. SEE SHEET CX-401 FOR PEDESTRIAN DETOUR.
4. CONTRACTOR TO PROVIDE SECURITY MEASURES TO PREVENT UNAUTHORIZED ACCESS TO WORK ZONE AT ALL TIMES SUCH AS FENCING, WALLS, BARRIERS, AND GATES.
5. PROPOSED TEMPORARY AGGREGATE TO BE PLACED NORTHWEST OF INSTALLED 6" CURB WITHIN LIMITS OF PROPOSED PAVEMENT RESTORATION TO FACILITATE DRAINAGE FOR THE TEMPORARY STATIONHOUSE.
6. CONTRACTOR TO PROVIDE ADA ACCESSIBLE PEDESTRIAN ROUTES AT ALL TIMES. CONTRACTOR TO UTILIZE CDOT STANDARD A-6-3 OR, IF NECESSARY, REMOVE PAVEMENT AND PLACE TEMPORARY SIDEWALK.
7. CONTRACTOR TO STAGE SIDEWALK WORK IN FRONT OF THE CALIFORNIA STATIONHOUSE MAINTAINING SAME-SIDE PEDESTRIAN TRAFFIC ALONG THE EAST SIDE OF CALIFORNIA AVENUE AT ALL TIMES. CONTRACTOR TO UTILIZE TEMPORARY PAVEMENT, SIDEWALK, AND/OR ADA RAMPS AS NECESSARY TO ENSURE AN ADA ACCESSIBLE ROUTE IS MAINTAINED AT ALL TIMES. ACCESS TO THE STATIONHOUSE IS NOT REQUIRED.
8. ACCESS TO PRIVATE PROPERTIES SHALL BE PROVIDED AT ALL TIME DURING CONSTRUCTION.

LEGEND:

- WORK AREA
- DIRECTION OF VEHICLE TRAFFIC
- PEDESTRIAN ACCESS ROUTE
- TYPE III BARRICADE WITH FLASHING LIGHTS



① W20-I103(0)-48



② W9-2L(0)-48 SPECIAL


③ W21-1(0)-48


④R W1-3R(0)-48


④L W1-3L(0)-48


⑤ R3-2-4848


⑥ R3-1-4848



⑦ R11-2-4830 (ON BARRICADE)



⑧ R11-4-6030 (ON BARRICADE)

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CHECKED BY	S. LASHOCK
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STAGING PLAN STAGE 2

LSCAL | CX-101

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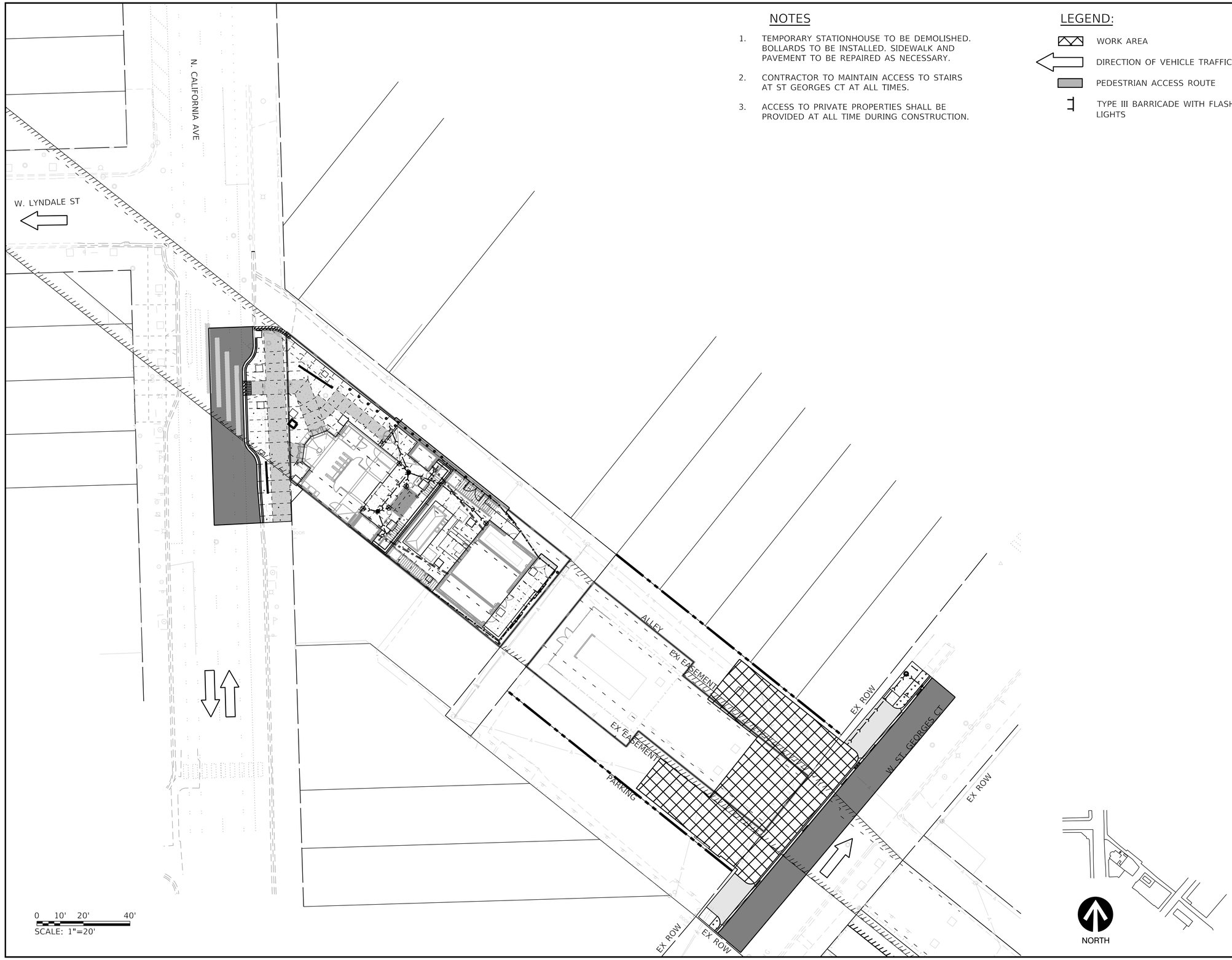
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NOTES

1. TEMPORARY STATIONHOUSE TO BE DEMOLISHED. BOLLARDS TO BE INSTALLED. SIDEWALK AND PAVEMENT TO BE REPAIRED AS NECESSARY.
2. CONTRACTOR TO MAINTAIN ACCESS TO STAIRS AT ST GEORGES CT AT ALL TIMES.
3. ACCESS TO PRIVATE PROPERTIES SHALL BE PROVIDED AT ALL TIME DURING CONSTRUCTION.

LEGEND:

- WORK AREA
- DIRECTION OF VEHICLE TRAFFIC
- PEDESTRIAN ACCESS ROUTE
- TYPE III BARRICADE WITH FLASHING LIGHTS



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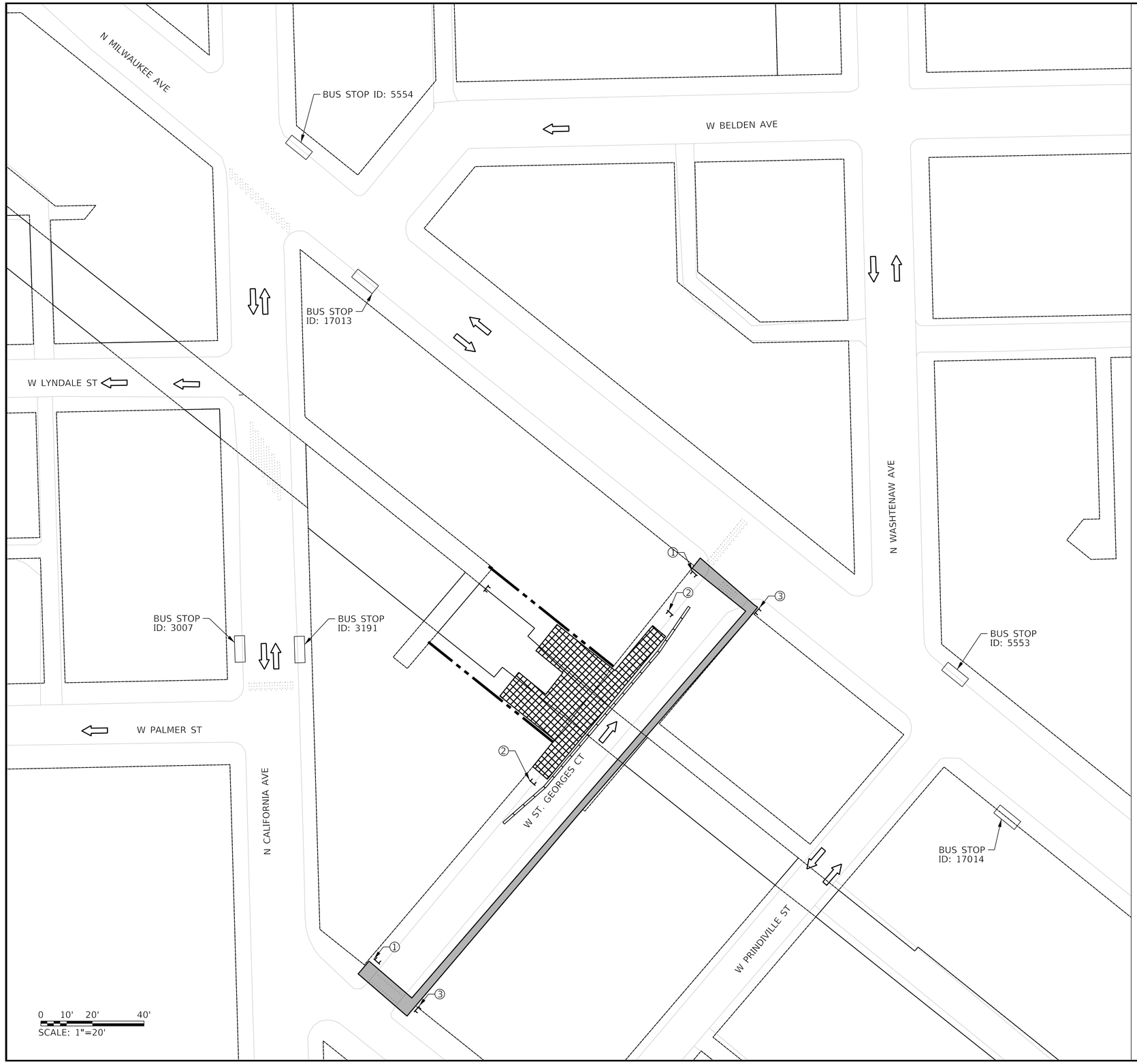
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STAGING PLAN
STAGE 3

LSCAL | CX-102

VOLUME: X OF X

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LEGEND:

- WORK AREA
- DIRECTION OF VEHICLE TRAFFIC
- PEDESTRIAN ACCESS ROUTE



① R9-11



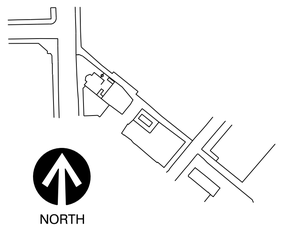
②R11-I101-2418 (ON BARRICADE)



③ M4-9B

NOTES

1. CONTRACTOR TO REMOVE AND REPLACE CONFLICTING TRAFFIC CONTROL DEVICES AS NECESSARY.
2. CONTRACTOR TO REMOVE AND REPLACE ITEMS IN THE PEDESTRIAN WAY TO ALLOW FOR AN ACCESSIBLE PEDESTRIAN PATH AS NECCESSARY AND DIRECTED BY THE CTA.
3. CONTRACTOR TO PROVIDE SECURITY MEASURES TO PREVENT UNAUTHORIZED ACCESS TO WORK ZONE AT ALL TIMES SUCH AS FENCING, WALLS, BARRIERS, AND GATES.
4. CONTRACTOR TO PROVIDE ADA ACCESSIBLE PEDESTRIAN ROUTES AT ALL TIMES. CONTRACTOR TO UTILIZE CDOT STANDARD A-6-3 OR, IF NECESSARY, REMOVE PAVEMENT AND PLACE TEMPORARY SIDEWALK.



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ALL STATIONS ACCESSIBILITY PROGRAM

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CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	S. LASHOCK
CHECKED BY	S. LASHOCK
DESIGNED BY	J. SCHAEFER
DRAWN BY	J. SCHAEFER

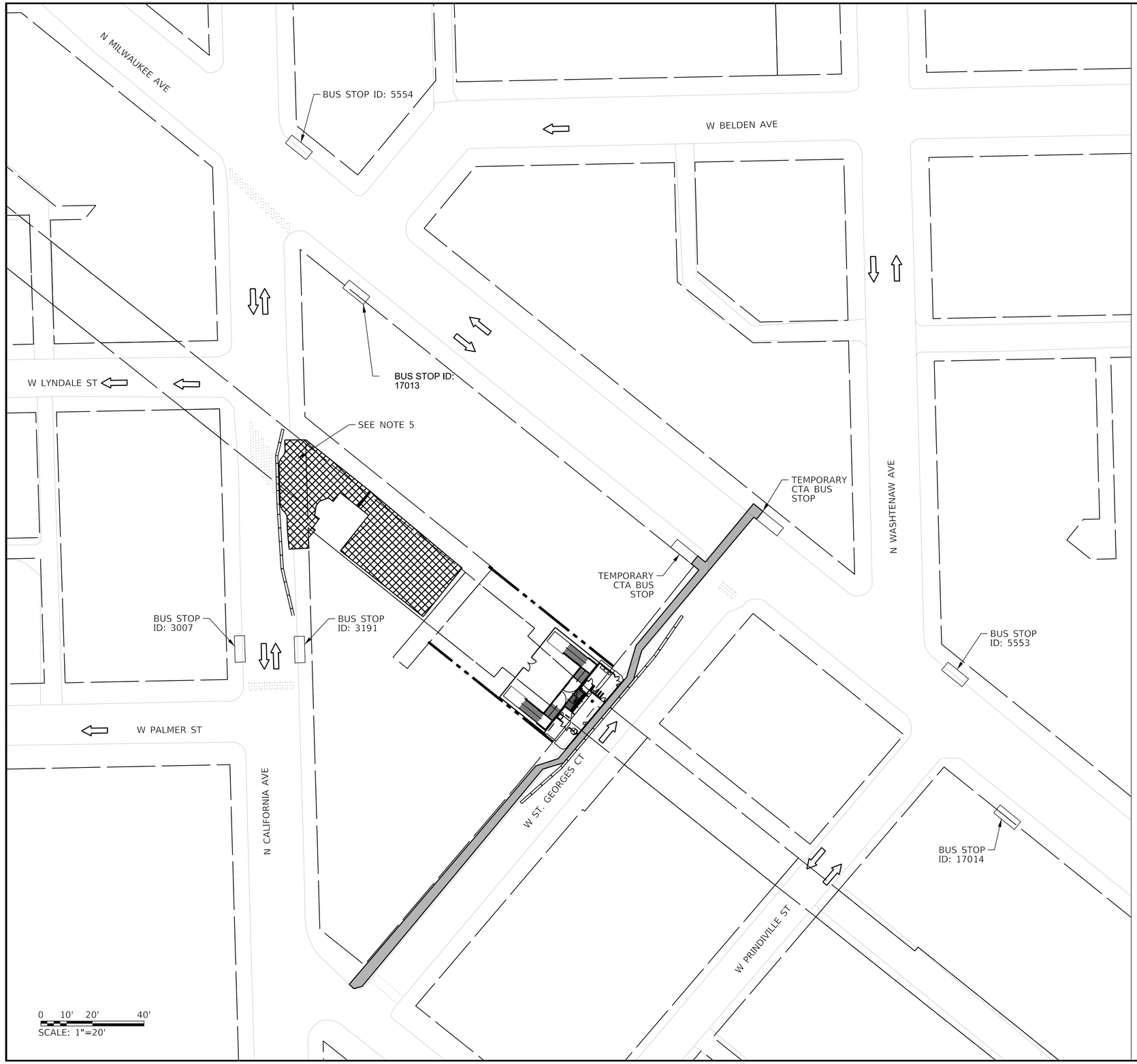
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ENLARGED STAGING PLAN STAGE 1

LSCAL | CX-400

VOLUME: X OF X

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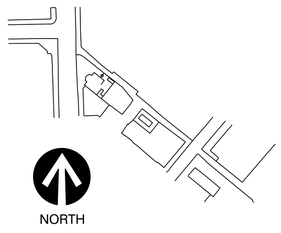


LEGEND:

- WORK AREA
- DIRECTION OF VEHICLE TRAFFIC
- PEDESTRIAN ACCESS ROUTE

NOTES

1. CONTRACTOR TO REMOVE AND REPLACE CONFLICTING TRAFFIC CONTROL DEVICES AS NECESSARY.
2. CONTRACTOR TO REMOVE AND REPLACE ITEMS IN THE PEDESTRIAN WAY TO ALLOW FOR AN ACCESSIBLE PEDESTRIAN PATH AS NECESSARY AND DIRECTED BY THE CTA.
3. CONTRACTOR TO PROVIDE SECURITY MEASURES TO PREVENT UNAUTHORIZED ACCESS TO WORK ZONE AT ALL TIMES SUCH AS FENCING, WALLS, BARRIERS, AND GATES.
4. CONTRACTOR TO PROVIDE ADA ACCESSIBLE PEDESTRIAN ROUTES AT ALL TIMES. CONTRACTOR TO UTILIZE CDOT STANDARD A-6-3 OR, IF NECESSARY, REMOVE PAVEMENT AND PLACE TEMPORARY SIDEWALK.
5. CONTRACTOR TO STAGE SIDEWALK WORK IN FRONT OF THE CALIFORNIA STATIONHOUSE MAINTAINING SAME-SIDE PEDESTRIAN TRAFFIC ALONG THE EAST SIDE OF CALIFORNIA AVENUE AT ALL TIMES. CONTRACTOR TO UTILIZE TEMPORARY PAVEMENT, SIDEWALK, AND/OR ADA RAMPS AS NECESSARY TO ENSURE AN ADA ACCESSIBLE ROUTE IS MAINTAINED AT ALL TIMES. ACCESS TO THE STATIONHOUSE IS NOT REQUIRED.



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ENGINEERING

SENSITIVE SECURITY INFORMATION

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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	S. LASHOCK
CHECKED BY	S. LASHOCK
DESIGNED BY	J. SCHAEFER
DRAWN BY	J. SCHAEFER

MARK	DATE	DESCRIPTION
0	12/30/24	ISSUE FOR BID

ENLARGED STAGING PLAN STAGE 2

LSCAL | CX-401

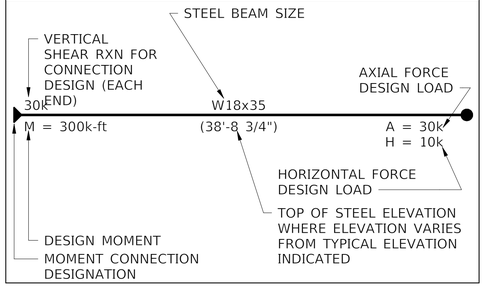
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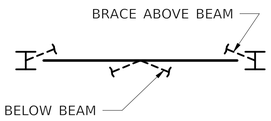
FRAMING COMPONENT SYMBOLS

- MOMENT CONNECTION
- CANTILEVERED MOMENT CONNECTION
- AXIAL CONNECTION
- FULL DEPTH SHEAR CONNECTION (MAX N)
- SPLICE CONNECTION
- SLIP JOINT CONNECTION
- AXIAL SLIP CONNECTION
- BRACE FRAME
- KICKER BRACING (ARROW HEAD AT HIGH END)
- SPAN DIRECTION OF ELEMENT

COMPOSITE BEAM KEY



BRACE FRAME KEY



CONCRETE COMPONENT DESIGNATIONS

P-xx	PEDESTAL TYPE
000'-0"	TOP OF PEDESTAL ELEVATION (FT)
F-xx	FOOTING TYPE
000'-0"	TOP OF FOUNDATION ELEVATION (FT)

MISCELLANEOUS INDICATORS & DESIGNATIONS

(E)	EXISTING
(1'-2")	DENOTES THE ELEVATION AT END OF SLOPED MEMBERS. ELEVATIONS AT INTERMEDIATE POINTS SHALL BE SET AT A LINEAR SLOPE.
MW-x	MASONRY WALL
MSW-x	MASONRY SHEAR WALL
⟨Cxxx⟩	COLUMN NUMBER

REINFORCING BAR LAP SPLICE LENGTHS
(RE: ACI 318-14 SECTION 25.4)

ALL REINFORCING BAR LAP SPLICE LENGTHS SHALL BE CLASS B UNLESS NOTED OTHERWISE.

STAGGER ALL SPLICES A MINIMUM OF 12 db BUT NOT LESS THAN 12".

ALL DIMENSIONS INDICATED IN TABLE BELOW ARE INCHES.

BUNDLED BAR SPLICES - INDIVIDUAL BAR SPLICES WITHIN BUNDLES SHALL BE STAGGERED AND LAP SHALL BE INCREASED 20% FOR A 3 BAR BUNDLE AND 33% FOR A 4 BAR BUNDLE.

REFERENCE TABLE BELOW FOR DEFINITION OF SPLICE CATEGORIES, FOR BARS NOT QUALIFYING FOR CATEGORY "I" MULTIPLY TABULATED VALUES BY 1.5.

IF CONCRETE CONTAINS LIGHT WEIGHT AGGREGATES MULTIPLY TABULATED VALUES BY 1.3.

ALL REINFORCEMENT IS EPOXY COATED AND TABULATED VALUES INCLUDE 1.5 FACTOR FOR EPOXY COATED REINFORCEMENT

ALL APPLICABLE FACTORS ABOVE SHALL BE MULTIPLIED TOGETHER AND THEN MULTIPLIED TO TABULATED VALUE BELOW TO OBTAIN REQUIRED LAP LENGTH.

BARS GREATER THAN #11 SHALL BE MECHANICALLY SPLICED.

LAP SPLICE LENGTHS BELOW APPLY ONLY TO GRADE 60 REINFORCING BARS.

CLASS A	#3	#4	#5	#6	#7	#8	#9	#10	#11
TOP BAR REINFORCEMENT (MORE THAN 12" OF CONCRETE CAST BELOW DEVELOPED BARS)									
fc = 4000 PSI	27"	38"	47"	56"	81"	93"	105"	119"	131"
fc = 5000 PSI	26"	33"	42"	50"	74"	83"	93"	105"	117"
BOT & VERT BAR REINFORCEMENT (LESS THAN 12" OF CONCRETE CAST BELOW DEVELOPED BARS)									
fc = 4000 PSI	21"	29"	36"	44"	63"	72"	81"	90"	101"
fc = 5000 PSI	20"	26"	32"	39"	56"	65"	72"	81"	90"

CLASS B	#3	#4	#5	#6	#7	#8	#9	#10	#11
TOP BAR REINFORCEMENT (MORE THAN 12" OF CONCRETE CAST BELOW DEVELOPED BARS)									
fc = 4000 PSI	36"	48"	60"	72"	105"	120"	137"	153"	170"
fc = 5000 PSI	33"	44"	54"	65"	95"	108"	122"	137"	152"
BOT & VERT BAR REINFORCEMENT (LESS THAN 12" OF CONCRETE CAST BELOW DEVELOPED BARS)									
fc = 4000 PSI	27"	38"	47"	56"	81"	93"	105"	117"	131"
fc = 5000 PSI	26"	33"	42"	50"	74"	83"	93"	105"	117"

DEFINITION OF CATEGORIES

CONCRETE COVER	CENTER TO CENTER SPACING	CATEGORY
GREATER THAN 1 X db	GREATER THAN 3 X db (2 db CLEAR)	I
GREATER THAN 1 X db	GREATER THAN 2 X db (1 db CLEAR) AND PROVIDE MINIMUM TIES OR STIRRUPS ALONG SPLICE	I
ALL OTHER	ALL OTHER	II

DIAMETER	#3	#4	#5	#6	#7	#8	#9	#10	#11
db (INCHES)	0.38"	0.50"	0.63"	0.75"	0.88"	1.00"	1.13"	1.27"	1.41"

HOOKED DEVELOPMENT LENGTH, ldh. VALUES INCLUDE FACTOR FOR USING EPOXY COVERED REBAR (Ψe)
BUT DO NOT INCLUDE REDUCTION FACTORS FOR COVER (Ψc) OR CONFINEMENT (Ψr) PER TABLE 25.4.3.2

	#3	#4	#5	#6	#7	#8	#9	#10	#11
fc = 4000 PSI	8.8"	11.5"	14.3"	17.3"	20.0"	23.0"	25.8"	29.0"	32.3"
fc = 5000 PSI	7.8"	10.3"	12.8"	15.5"	18.0"	20.5"	23.0"	26.0"	28.8"

MASONRY DEVELOPMENT LENGTH, ld. VALUES INCLUDE FACTOR FOR USING EPOXY COVERED REBAR.
DEVELOPMENT LENGTH DETERMINED BY TMS 402-16 SECTION 6.1.5.1.1 ASSUMING K=2.5"

	#3	#4	#5	#6	#7	#8	#9
db (INCHES)	0.38''	0.50''	0.63''	0.75''	0.88''	1.00''	1.13''
f'm = 2000 PSI	18.0''	26.2''	41.5''	76.5''	95.0''	108.0''	122.0''
f'm = 2500 PSI	18.0''	23.4''	37.1''	68.4''	94.2''	108.0''	122.0''

TYPICAL SYMBOL GRAPHICS

EXISTING BUILDING GRID LINE	GRID DESIGNATION
NEW BUILDING GRID LINE	GRID DESIGNATION
BUILDING SECTION MARKER	DETAIL DESIGNATION / SHEET DESIGNATION
PARTIAL BUILDING OR WALL SECTION MARKER	DETAIL DESIGNATION / SHEET DESIGNATION
DETAIL MARKER	DETAIL DESIGNATION / SHEET DESIGNATION
ENLARGED DETAIL OR PLAN MARKER	DETAIL DESIGNATION / SHEET DESIGNATION
EXTERIOR ELEVATION MARKER	DETAIL DESIGNATION / SHEET DESIGNATION
BRACED FRAME ELEVATION MARKER	BRACED FRAME/DETAIL DESIGNATION / SHEET DESIGNATION
INTERIOR ELEVATION MARKER	DETAIL DESIGNATION / SHEET DESIGNATION
LEVEL/SPOT ELEVATIONS	ELEVATION
REVISION OR ADDENDUM	INDICATES SEQUENCE NUMBER FOR REVISION / INDICATES AREA MODIFIED
PLAN/DETAIL NOTE MARKER	SPECIFIC NOTATIONS ON A SHEET
ELEVATION CHANGE	INDICATES CHANGE IN ELEVATION

MATERIAL GRAPHICS

- GRAVEL
- DRAINAGE FILL
- EARTH
- CONCRETE
- PRECAST CONCRETE
- CONCRETE MASONRY UNIT
- BRICK
- STEEL

PLAN NOTES MASTER

NO.	DESCRIPTION
1	5" SOG W/ #4@16" OC. T/SLAB = 19'-0"
2	MW1 = 8" NWT CMU WALL W/ #4@4'-0" OC VERT REINF, RE: 2/S-511.
3	CONTINUOUS GRADE BEAM. RE: 3/S-600.
4	EXISTING STATION HOUSE TO REMAIN.
5	EXISTING COMM HUT TO REMAIN.
6	SWITCHBOARD, RE: ELECTRICAL. MAX WEIGHT=4,000 LBS. PROVIDE 4" EQUIPMENT PAD. RE: 4/S-500.
7	1" "C" TYPE ROOF DECK, TYP.
8	STAIR POST, TYP, RE: SECTION.
9	NEW DOUBLE COLUMN CANOPY STRUCTURES, RE: S-526.
10	NEW CANOPY STRUCTURE, RE: S-525.
11	EXPANSION JOINT, RE: ARCH.
12	STAIR COLUMN, TYP. RE: ELEVATIONS FOR SIZE
13	RE: 3/S-529
14	PEDESTAL TYPE AND ELEVATION VARIES. RE: 3/S-303
15	W10X49 PLATFORM SUPPORT COLUMN, RE: ENLARGED PLAN
16	PD-8, RE: SCHED & S-601 FOR MICROPILE LAYOUT
17	HSS6x6x1/2 COLUMN
18	HSS8x6x3/8 COLUMN
19	RE: DETAIL 7/S-529
20	RE: DETAIL 11/S-528
21	RE: DETAIL 5/S-529
22	BP-01, RE: SCHEDULE ON SHEET S-620
23	BP-02, RE: SCHEDULE ON SHEET S-620
24	BP-03, RE: SCHEDULE ON SHEET S-620
25	BP-04, RE: SCHEDULE ON SHEET S-620
26	RE: DETAIL 1/S-529
27	RE: DETAIL 2/S-529
28	FALL PROTECTION TIE-OFF AT CANOPY COLUMN PEAK, TYP ENTIRE CANOPY, RE: ARCH
29	MICROPILE LOCATION, RE: S-601 FOR NOTES.
30	SLAB ON GRADE CONTROL JOINTS, RE: 4/S-501.
31	WIND SCREEN FRAMING, RE: 3/S-521
32	CANOPY W6 TO HSS6X6, RE: 1/S-522.
33	APPROXIMATE LOCATION OF EXISTING BENT FOOTING, V.I.F.
34	PROTECT EXISTING WALL AND FOUNDATION MINIMUM 5'-0" BEYOND THE DEMOLITION EXTENTS FOR NEW PEDESTAL AND TRACK SUPPORT COLUMN. SHORE EXISTING SOIL/FILL PRIOR TO EXCAVATION/DEMOLITION. REFER TO 4/AD-201 FOR DEMOLITION EXTENTS. CONTRACTOR TO DOCUMENT EXISTING CONDITIONS RELATIVE TO EXCAVATION/DEMOLITION EXTENTS NEEDED FOR EXISTING STRUCTURE AND SUBMIT TO STRUCTURAL ENGINEER FOR REVIEW PRIOR TO DEMOLITION ACTIVITIES. DOCUMENT EXISTING FOUNDATION, WALL, AND ROOF. REFER TO STRUCTURAL SHORING SPECIFICATION (31 15 00), GEOTECHNICAL INSTRUMENTATION/ MONITORING SPECIFICATION (31 09 13), AND VIBRATION MONITORING PROTOCOL SPECIFICATION (02 22 13) FOR FURTHER REQUIREMENTS.

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CHICAGO TRANSIT AUTHORITY
ENGINEERING

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STRUCTURAL GENERAL INFORMATION

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VOLUME: 1 OF 1

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ABBREVIATIONS

A

ADDL	ADDITIONAL
ADJ	ADJACENT
AFF	ABOVE FINISH FLOOR
AHU(S)	AIR HANDLING UNIT(S)
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALT	ALTERNATE
ALUM	ALUMINUM
APPROX	APPROXIMATE
AR	ANCHOR ROD
ARCH	ARCHITECT / ARCHITECTURAL
ASD	ALLOWABLE STRESS DESIGN
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AVG	AVERAGE

B

B/	BOTTOM OF
BF	BRACED FRAME
BLDG	BUILDING
BM	BEAM
BOT	BOTTOM
BP	BASE PLATE
BRG	BEARING
BTWN	BETWEEN

C

C-C	CENTER TO CENTER
CF	CUBIC FOOT / FEET
CFMF	COLD FORMED METAL FRAMING
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CJP	COMPLETE JOINT PENETRATION
CKRD	CHECKERED
CL	CENTERLINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL(S)	COLUMN(S)
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
CTR	CENTER
CW	CURTAIN WALL
CY	CUBIC YARD(S)

D

DBA(S)	DEFORMED BAR ANCHOR(S)
DBL	DOUBLE
DEMO	DEMOLITION
DIA	DIAMETER
DIAG	DIAGONAL
DIM(S)	DIMENSION(S)
DIR	DIRECTION
DN	DOWN
DTL(S)	DETAIL(S)
DWG(S)	DRAWING(S)
DWL(S)	DOWEL(S)

ABBREVIATIONS

E

EA	EACH
EE	EXTENDED END
EF	EACH FACE
EJ(S)	EXPANSION JOINT(S)
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
ENGR	ENGINEER
EOD	EDGE OF DECK
EOR	ENGINEER OF RECORD
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR

F

FAB	FABRICATE
FCM	FRACTURE CRITICAL MEMBER
FD	FLOOR DRAIN
FDN	FOUNDATION
FF	FINISH FLOOR
FG	FINISH GRADE
FL	FLOOR
FOC	FACE OF COLUMN / CONCRETE
FOW	FACE OF WALL
FP	FIRE PROTECTION
FS	FAR SIDE
FTG(S)	FOOTING(S)
FV	FIELD VERIFY

G

GA	GAUGE
GALV	GALVANIZED
GB	GRADE BEAM
GC	GENERAL CONTRACTOR
GEN	GENERAL
GR	GRADE
GRTG	GRATING

H

HD	HEAVY DUTY
HDG	HOT DIPPED GALVANIZED
HDR	HEADER
HORIZ	HORIZONTAL
HP	HIGH POINT
HSA	HEADED STUD ANCHOR
HSS	HOLLOW STRUCTURAL STEEL

I

ID	INSIDE DIAMETER
IF	INSIDE FACE
INT	INTERIOR

J

JST	JOIST
JT(S)	JOINT(S)

ABBREVIATIONS

K

K/KIP	1,000 POUNDS
KLF	KIPS PER LINEAR FOOT
KSI	KIPS PER SQUARE INCH

L

LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LNTL	LINTEL
LONG	LONGITUDINAL
LP	LOW POINT
LRFD	LOAD AND RESISTANCE FACTOR DESIGN
LSH	LONG SIDE HORIZONTAL
LSV	LONG SIDE VERTICAL
LWT	LIGHTWEIGHT

M

MAX	MAXIMUM
MECH	MECHANICAL
MFCR(S)	MANUFACTURER(S)
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MSE	MECHANICALLY STABILIZED EARTH RETAINING WALL
MSW	MASONRY SHEAR WALL
MTL	METAL
MW	MASONRY WALL

N

NIC	NOT IN CONTRACT
NOM	NOMINAL
NS	NEAR SIDE
NTS	NOT TO SCALE

O

O-O	OUT TO OUT
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OPNG(S)	OPENING(S)
OPP	OPPOSITE
OPP HD	OPPOSITE HAND

P

P/C	PRECAST
PCF	POUNDS PER CUBIC FOOT
PE	PROFESSIONAL ENGINEER
PERP	PERPENDICULAR
PG	PLATE GIRDER
PIL	PILASTER
PL(S)	PLATE(S)
PLMB	PLUMBING
PREFAB	PREFABRICATED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH

ABBREVIATIONS

R

RAD	RADIUS / RADIANS
RC	REINFORCED CONCRETE
RE:	REFER / REFERENCE
REINF	REINFORCEMENT
REQD	REQUIRED
RET	RETURN / RETAINING
RO	ROUGH OPENING
RTU(S)	ROOF TOP UNIT(S)

S

SCHED	SCHEDULE
SE	STRUCTURAL ENGINEER
SECT	SECTION
SF	SQUARE FOOT (FEET)
SHT(S)	SHEET(S)
SIM	SIMILAR
SOG	SLAB ON GRADE
SPA	SPACING / SPACED
SPEC(S)	SPECIFICATION(S)
SPECD	SPECIFIED
SQ	SQUARE
SST	STAINLESS STEEL
STD	STANDARD
STIF	STIFFENER
STIR	STIRRUP
STL	STEEL
STRUC	STRUCTURAL / STRUCTURES
SUP	SUPPORT
SWMS	STORM WATER MANAGEMENT SYSTEM
SYMM	SYMMETRICAL

T

T&B	TOP AND BOTTOM
T/	TOP OF
T/B	TOP OF BEAM
T/C	TOP OF CONCRETE
T/D	TOP OF DECK
T/DP	TOP OF DRILLED PIER
T/F	TOP OF FOOTING
T/GB	TOP OF GRADE BEAM
T/PC	TOP OF PILE CAP / TOP OF PRECAST
T/S	TOP OF STEEL
T/W	TOP OF WALL
TEMP	TEMPORARY
THK	THICKNESS, THICK
THRD	THREADED
THRU	THROUGH
TRANS	TRANSVERSE
TYP	TYPICAL

U

UNO	UNLESS NOTED OTHERWISE
UTIL	UTILITY

V

VERT	VERTICAL
VIF	VERIFY IN FIELD

W

W/	WITH
W/O	WITH OUT
WD	WOOD
WP	WORK POINT
WS	WATER STOP
WWF	WELDED WIRE FABRIC
WWR	WELDED WIRE REINFORCEMENT

X

+/-	APPROXIMATE DIMENSION, FIELD VERIFY

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STRUCTURAL ABBREVIATIONS

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S-002

VOLUME: 1 OF 1

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A. GENERAL STRUCTURAL NOTES:

1. SHOP DRAWINGS OF ALL FABRICATED ITEMS SHALL BE SUBMITTED FOR REVIEW ACCORDING TO DIVISION 1 OF THE SPECIFICATIONS PRIOR TO FABRICATION.

2. CERTAIN STRUCTURAL COMPONENTS AND SYSTEMS ARE DELEGATED TO BE DESIGNED AND ENGINEERED BY A LICENSED STRUCTURAL ENGINEER RETAINED BY THE CONTRACTOR. SHOP DRAWINGS FOR THESE COMPONENTS AND SYSTEMS SHALL BE SEALED BY A LICENSED STRUCTURAL ENGINEER REGISTERED IN THE STATE OF ILLINOIS. SUBMIT FOR RECORD SEALED CALCULATIONS FOR THESE COMPONENTS OR SYSTEMS. STRUCTURAL SYSTEMS SHALL INCLUDE THE SYSTEM COMPONENTS, NECESSARY BRACING AND CONNECTIONS. DELEGATED STRUCTURAL COMPONENTS AND SYSTEMS INCLUDE BUT MAY NOT BE LIMITED TO: COLD FORMED METAL FRAMING, MISCELLANEOUS METALS NOT SHOWN IN THE STRUCTURAL DRAWINGS, FALL PROTECTION SYSTEMS, CURTAIN WALL SYSTEMS, MICROPILES, TEMPORARY SHEET PILING, AND ANY OTHER COMPONENTS DESIGNATED "BY CONTRACTOR".

3. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTS PLANS.

4. ALL EXISTING CONDITIONS AND ASSOCIATED DIMENSIONS ARE TO BE VERIFIED AND SURVEYED IN THE FIELD. IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR CONFLICTS BETWEEN EXISTING CONDITIONS AND THE DESIGN AND DETAILS INDICATED BY THESE DRAWINGS. SURVEY SHALL BE COMPLETED PRIOR TO DEVELOPING FABRICATION DRAWINGS AND FABRICATION DRAWINGS SHALL INDICATE FIELD MEASURED DIMENSIONS.

5. SEE ARCHITECTS PLANS FOR DIMENSIONS FOR OPENINGS IN WALLS, ROOF AND FLOOR SYSTEMS.

6. CHECK AND COORDINATE SIZES AND LOCATIONS OF ALL BLOCK-OUTS, CONDUITS, PIPE SLEEVES, EMBEDDED ITEMS, ETC. NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY OF ANY DISCREPANCIES OR CONFLICTS BETWEEN THESE TRADES AND THE DESIGN AND DETAILS INDICATED BY THESE DRAWINGS.

7. NO PIPES, CONDUITS, SLEEVES, ETC. SHALL PASS THROUGH FOUNDATIONS, BEAMS, COLUMNS, SLABS OR STRUCTURAL WALLS; UNLESS CLEARLY INDICATED ON STRUCTURAL PLANS OR UNLESS WRITTEN AUTHORIZATION IS OBTAINED FROM THE ARCHITECT/ENGINEER PRIOR TO CONSTRUCTION. CONTRACTOR SHALL SUBMIT AN EMBED & SLEEVE PLAN(S) SHOWING ALL ITEMS TO BE EMBEDDED IN CAST-IN-PLACE CONCRETE AND COORDINATED WITH THE REINFORCING SUBMITTAL FOR REVIEW. WHERE PIPES AND CONDUITS PASS THROUGH CAST-IN-PLACE CONCRETE OR MASONRY ELEMENTS THEY SHALL BE SURROUNDED BY PVC OR STEEL SLEEVES A MINIMUM OF 2 INCHES LARGER THAN THE PIPE OR CONDUIT. WHERE PRE-EXISTING OR ALREADY INSTALLED PIPE OR CONDUIT IS TO PASS THROUGH CONCRETE OR MASONRY PROVIDE RIGID SLEEVES IN TWO PIECES, SECURELY JOINED, AND CAPABLE OF PREVENTING WET CONCRETE OR GROUT FROM LEAKING INTO SLEEVE.

8. GENERAL DETAILS ARE SHOWN ON SHEETS S-500 - S-524. THE GENERAL DETAILS INCLUDED MAY/OR MAY NOT BE CUT ON PLANS OR SECTIONS, BUT THESE GENERAL DETAILS ARE TO BE USED FOR THE APPLICABLE CONDITIONS NOTED.

9. DETAILS NOT SPECIFICALLY INDICATED SHALL BE SIMILAR TO DETAILS SHOWN FOR SIMILAR CONDITIONS.

10. CODES IN FORCE AS OF JANUARY 1, 2022 AND GOVERNING THE WORK OF THIS PROJECT:

A. ALL DESIGN AND CONSTRUCTION SHALL CONFORM TO THE 2019 CHICAGO BUILDING CODE.

B. CTA INFRASTRUCTURE DESIGN CRITERIA MANUAL (CTA IDCM REV. 06).

C. BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-14).

D. SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301) AND ACI MANUAL OF CONCRETE PRACTICE.

E. GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION (ACI 302).

F. CONCRETE REINFORCING STEEL INSTITUTE “MANUAL OF STANDARD PRACTICE” (CRSI).

G. “RECOMMENDED PRACTICE FOR CONCRETE FORM WORKS” (ACI 347).

H. SPECIFICATIONS FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS (AISC 360-16).

I. SPECIFICATIONS, LOAD TABLES, AND WEIGHT TABLES FOR STEEL JOISTS (SJI).

J. STEEL DECK INSTITUTE DESIGN MANUAL FOR FLOOR DECKS AND ROOF DECKS (SDI).

K. AMERICAN WELDING SOCIETY STANDARDS AND SPECIFICATIONS (AWS).

a. AWS D1.1 “STRUCTURAL WELDING CODE-STEEL”.

b. AWS D1.4 “STRUCTURAL WELDING CODE-REINFORCING STEEL”.

c. AWS D1.6 “STRUCTURAL WELDING CODE FOR STAINLESS STEEL”.

d. AWS D19.0 “WELDING ZINC COATED STEEL”.

L. BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY (TMS 402-2016).

M. SPECIFICATIONS FOR CONCRETE MASONRY CONSTRUCTION (TMS 602-2016).

N. SPECIFICATIONS FOR DESIGN AND CONSTRUCTION OF LOAD BEARING MASONRY (NCMA).

O. SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS (AISI).

P. WHEN THE PROVISIONS OF THE ABOVE CODES AND STANDARDS CONFLICT WITH THE CHICAGO BUILDING CODE REGULATIONS OR WITH EACH OTHER, USE THE MOST STRINGENT OF THE REQUIREMENTS.

A. GENERAL STRUCTURAL NOTES CONTINUED:

11. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE COMPLETED STRUCTURE. PROVIDE ADEQUATE SHORING OR BRACING DURING CONSTRUCTION TO RESIST FORCES SUCH AS WIND AND UNBALANCED LOADING DUE TO CONSTRUCTION. STRUCTURE IS NOT STABLE UNTIL ALL FRAMING, DECK, DECK FILL, CONNECTIONS AND ANCHORAGE TO SHEAR WALLS ARE COMPLETE. THE DESIGN OF BRACING, JACKING, SHORING AND DEMOLITION AND CONSTRUCTION PHASING IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD. REFER TO STRUCTURAL SHORING SPECIFICATION (31 15 00), GEOTECHNICAL INSTRUMENTATION/ MONITORING SPECIFICATION (31 09 13), AND VIBRATION MONITORING PROTOCOL SPECIFICATION (02 22 13) FOR FURTHER REQUIREMENTS.

12. CONSTRUCTION DISCOVERED TO BE NON-COMPLIANT WITH THE CONTRACT DOCUMENTS SHALL BE CORRECTED. PRIOR TO BEGINNING ANY REMEDIAL WORK OR FABRICATION SUBMIT REPAIR PROCEDURES, REPAIR DETAILS, SUPPORTING PRODUCT INFORMATION AND SUPPORTING CALCULATIONS FOR REVIEW. DO NOT BEGIN ANY REPAIRS UNTIL WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER IS RECEIVED.

13. ALL WORK DONE ON OR ADJACENT TO CTA PROPERTY MUST COMPLY WITH IDCM

B. LOADS:

1. LIVE LOAD: (PER THE 2019 CHICAGO BUILDING CODE)

A. OCCUPANCY CATEGORY	III
B. MINIMUM ROOF LIVE LOAD:	30 PSF
C. SNOW:	
a. GROUND SNOW LOAD (P_f)	25 PSF
b. FLAT-ROOF SNOW, (P_f)	30 PSF UNIFORM OR 30 PSF + DRIFT
c. IMPORTANCE FACTOR (I)	1.1
d. EXPOSURE FACTOR (C_e)	1.0
e. THERMAL FACTOR (C_t)	1.2

D. WIND: (WIND PRESSURES SHALL BE PRESCRIBED IN THE 2019 CHICAGO BUILDING CODE)

a. BASIC WIND SPEED (3 SEC. GUST)	114 MPH
b. IMPORTANCE FACTOR	1.0
c. EXPOSURE CATEGORY	C
d. INTERNAL PRESSURE COEFF.	± 0.18

E. SEISMIC:

a. SPECTRAL RESPONSE ACCEL. (S_S)	0.090
b. SPECTRAL RESPONSE ACCEL. (S_1)	0.037
c. SEISMIC DESIGN CATEGORY	A
d. IMPORTANCE FACTOR	1.25
e. SPECTRAL RESPONSE COEFF. (S_{DS})	0.108
f. SPECTRAL RESPONSE COEFF. (S_{D1})	0.063
g. SITE CLASS	C
h. BASIC SEISMIC RESISTING SYSTEM	SYSTEM NOT DETAILED FOR SEISMIC

F. GENERAL LIVE LOADS:

a. EQUIPMENT, STORAGE, MACHINERY ROOMS	200 PSF (UNREDUCED)
b. STATIONHOUSE PEDESTRIAN AREAS	100 PSF (UNREDUCED)
c. PLATFORMS	100 PSF (UNREDUCED)
d. TRANSFORMER ROOMS	200 PSF (UNREDUCED)
e. ELEVATOR MACHINE ROOM	200 PSF (UNREDUCED)
f. ALL ELEVATED AREAS	100 PSF (UNREDUCED)
g. FALL PROTECTION LOADS	PER ANSI Z359.6

G. SUPERIMPOSED DEAD LOAD ALLOWANCES:

a. MEP ALLOWANCE	10 PSF
b. STAIR TREADS/LANDING	40 PSF
c. ROOFING/INSULATION (ELEVATOR AND ELECTRICAL BUILDING ROOFS)	15 PSF

H. ICE LOADS: (ICE LOADS PER ASCE 7-16 CHAPTER 10)

a. IMPORTANCE FACTOR (I)	1.15
b. NOMINAL ICE THICKNESS (t)	1.5"

2. THE STRUCTURE IS ALSO DESIGNED FOR ANY ADDITIONAL DEAD AND/OR LIVE LOADS AS INDICATED ON THE DRAWINGS.

3. ASSUMED DESIGN TEMPERATURE DIFFERENTIAL FOR EXPOSED PORTIONS OF THE STRUCTURE SHALL BE ±50 DEGREES.

4. GUARDRAIL AND HANDRAIL AT PLATFORMS SHALL BE DESIGNED FOR:

A. A 75 LB/FT HORIZONTAL FORCE AND A 50LB/FT VERTICAL FORCE APPLIED CONCURRENTLY.
B. OR A 200 LB CONCENTRATED VERTICAL FORCE AND A 300 LB HORIZONTAL FORCE NOT APPLIED CONCURRENTLY.

5. STAIR STRUCTURE DRIFT EVALUATED TO ACHIEVE APPROXIMATELY 1" DRIFT AT TOP ELEVATION FOR 10 YEAR MRI WIND PER ANSCE 7. THIS CORRESPONDS TO APPROXIMATELY H/400 DRIFT.

C. EARTHWORK:

1. THE OWNER-ACCEPTED RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL INVESTIGATION REPORT JOB NO. 21052 PREPARED BY GEO SERVICES, INC. DATED JULY 8TH, 2022 AND REVISED FEBRUARY 28TH, 2024. REFERENCE THIS REPORT FOR INFORMATION ABOUT THE SUBSURFACE SITE CONDITIONS.

C. EARTHWORK (CONT):

2. WHERE INDICATED, FOUNDATIONS TO BE MICROPILES BEARING ON SOUND BEDROCK (APPROX. -25.0' CCD) AS NOTED IN THE GEOTECHNICAL INVESTIGATION REPORT.

A. THE GEOTECHNICAL ENGINEER SHALL OBSERVE THE EXCAVATION OF MICROPILES, EVALUATE THE SUITABILITY OF BEARING MATERIAL, AND ADJUST THE BEARING ELEVATIONS, AS NECESSARY.

B. MICROPILES TO BE DELEGATED DESIGN FOR CAPACITIES INDICATED. MICROPILE DESIGN REQUIREMENTS SHALL BE PER THE GEOTECHNICAL INVESTIGATION REPORT.

C. MICROPILES MAY USE 10 KIP PER SQUARE FOOT GROUT-TO-BOND STRENGTH FOR FRICTION RESISTANCE IN SOUND BEDROCK OR 200 KIP PER SQUARE FOOT END BEARING FOR MICROPILES EMBEDDED 1 FOOT MINIMUM INTO SOUND BEDROCK, BUT NOT A COMBINATION OF BOTH. ADDITIONAL END BEARING MAY BE ACHIEVED BY EXTENDING THE MICROPILES FURTHER INTO SOUND BEDROCK PER THE GEOTECHNICAL REPORT, BUT MAY NOT EXCEED 400 KIPS PER SQUARE FOOT AT A 6 FOOT EMBEDMENT.

D. PER CTA IDCM, BATTERED MICROPILES MAY BE USED TO RESIST LATERAL LOADS BUT NO PORTION OF A MICROPILE MAY EXTEND OUTSIDE CTA'S RIGHT OF WAY. SOIL SURROUNDING CAP MUST NOT BE USED TO RESIST LATERAL LOADS. REFERENCE CTA IDCM CHAPTER 7 SECTION 5.17.3 FOR OTHER REQUIREMENTS.

E. ONLY DUPLEX ROTARY DRILLING METHOD SHALL BE ALLOWED. EXTERNAL FLUSHING METHOD IS NOT ALLOWED.

F. MICROPILE DESIGN TO MEET CRITERIA OF REFERENCE DOCUMENTS IN DCM CHAPTER 7 SECTION 2.5.

G. MICROPILE DESIGN FOR CASING THICKNESS TO ACCOUNT FOR 1/16" SECTION LOSS DUE TO CORROSION.

3. WHERE INDICATED, FOUNDATIONS TO BE SHALLOW FOUNDATIONS BEARING ON SOIL/FILL CAPABLE OF SUPPORTING A 3,000 PSF NET ALLOWABLE CONTACT BEARING PRESSURE (CBP). REFER TO THE GEOTECHNICAL INVESTIGATION REPORT FOR FURTHER DESCRIPTION OF SOIL/FILL REQUIREMENTS.

A. UNDERCUT EXISTING SOIL TO SUITABLE BEARING SOIL PER TABLE 5 OF GEOTECHNICAL REPORT AND BACKFILL WITH STRUCTURAL GRANULAR FILL OR LEAN CONCRETE.

B. THE GEOTECHNICAL ENGINEER SHALL OBSERVE THE EXCAVATION OF UNSUITABLE MATERIAL, INSPECT THE PLACEMENT AND COMPACTION OF ALL FILL MATERIALS, EVALUATE THE SUITABILITY OF BEARING MATERIAL, AND ADJUST THE BEARING ELEVATIONS AS NECESSARY.

C. STRUCTURAL FILL UTILIZED TO SUPPORT FOOTINGS SHOULD BE EXTENDED AT LEAST 6" BEYOND THE PROPOSED FOOTING LIMITS AND THEN ONE FOOT HORIZONTALLY FOR EACH ONE FOOT OF FILL PLACED BELOW THE BASE OF THE FOOTING. NEW FILL SHOULD CONSIST OF INORGANIC MATERIAL FREE OF DEBRIS AND SHALL BE PLACED IN 8" LOOSE LIFTS AND COMPACTED TO 95% OF MAXIMUM DRY DENSITY.

4. A TESTING LABORATORY WILL BE RETAINED BY THE GENERAL CONTRACTOR TO PERFORM SOIL COMPACTION INSPECTION AND TESTING, TO IDENTIFY EXISTING FILL AND SOFT MATERIALS TO BE REMOVED IN FOUNDATION OR SLAB AREAS, TO IDENTIFY PROPER BEARING STRATA, BASED ON RECOMMENDATIONS CONTAINED IN SOIL REPORT AND ACTUAL FIELD OBSERVATIONS.

5. MINIMUM FROST DEPTH ASSUMED IS 4'-0" BELOW THE LOWEST ADJACENT GRADES. DEEPEN FOOTINGS AS REQUIRED TO PROVIDE THIS MINIMUM BOTTOM OF FOOTING.

6. HEAVY COMPACTION EQUIPMENT SHALL NOT BE USED WITHIN FIVE FEET OF WALLS TO AVOID CREATING EXCESSIVE LATERAL EARTH PRESSURES.

7. LATERAL EARTH PRESSURES USED FOR DESIGN ARE AS FOLLOWS:

A. A. ACTIVE PRESSURE = 40 PCF, Ka=0.33
i) FOR YIELDING RETAINING WALLS WITH FREE-DRAINING GRANULAR BACKFILL

B. AT REST PRESSURE = 60 PCF, Ko=0.5
i) FOR COHESIVE SOILS

C. ALLOWABLE SLIDING RESISTANCE COEFFICIENT f =0.34 MIN.
MINIMUM FACTOR OF SAFETY AGAINST SLIDING=2.0.

D. SOIL UNIT WEIGHT ASSUMED = 120 PCF. ACTUAL RANGES FROM 100 PCF TO 125 PCF, REFER TO GEOTECHNICAL REPORT.

8. FOUNDATION WALL BACKFILL SHALL NOT BE UNBALANCED BY MORE THAN TWO (2) FEET ON EITHER SIDE AT ANY TIME. BASEMENT WALL AND RETAINING WALL BACKFILL SHALL NOT BE PLACED BEFORE THE INTERIOR FLOOR SLAB IS PLACED, UNLESS THE WALL IS ADEQUATELY BRACED. RETAINING WALL AND BASEMENT WALL BACKFILL MATERIAL SHALL BE FREE DRAINING GRANULAR FILL ACCEPTABLE TO THE SOILS ENGINEER.

9. BACKFILL PLACED WITHIN 2 FEET OF THE BACK FACE OF THE WALL SHALL CONSIST OF DRAINAGE FILL. WITHIN A ZONE DEFINED BY A 30 DEGREE ANGLE WITH THE VERTICAL, EXTENDING UP FROM THE BASE OF THE WALL, THE REMAINING BACKFILL SHOULD CONSIST OF GRANULAR ON-SITE FILL. IF THE FINES CONTENT (MATERIAL PASSING THE

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CHICAGO TRANSIT AUTHORITY
ENGINEERING

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WARNING: THIS RECORD CONTAINS SENSITIVE SECURITY INFORMATION THAT IS CONTROLLED UNDER 49 CFR PARTS 15 AND 1520. NO PART OF THIS RECORD MAY BE DISCLOSED TO PERSONS WITHOUT A "NEED TO KNOW" AS DEFINED IN CFR PARTS 15 AND 1520, EXCEPT WITH THE WRITTEN PERMISSION OF THE ADMINISTRATOR OF THE TRANSPORTATION SECURITY ADMINISTRATION OR THE SECRETARY OF TRANSPORTATION. UNAUTHORIZED RELEASE MAY RESULT IN CIVIL PENALTY OR OTHER ACTION. FOR U.S. GOVERNMENT AGENCIES, PUBLIC DISCLOSURE IS GOVERNED BY 5 U.S.C. 552 AND 49 CFR PARTS 15 AND 1520.

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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	C. MIDKIFF
CHECKED BY	N. HUNT
DESIGNED BY	C. MIDKIFF
DRAWN BY	C. BRYANT

MARK	DATE	DESCRIPTION
0	12/30/2024	ISSUED FOR BID

STRUCTURAL GENERAL NOTES

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VOLUME: 1 OF 1

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C. EARTHWORK (CONT)

12. CARE IS REQUIRED AT EXCAVATIONS ADJACENT TO EXISTING STRUCTURES TO ADDRESS POTENTIAL UNDERMINING OF EXISTING FOUNDATIONS. AS RECOMMENDED IN GEOTECHNICAL REPORT, TEMPORARY SHEET PILE WALLS MAY BE REQUIRED TO MAINTAIN EXISTING STRUCTURES.

A. SHEET PILE WALLS ADJACENT TO EXISTING STRUCTURES TO BE DELEGATED DESIGN. REQUIREMENT SHALL BE PER THE GEOTECHNICAL INVESTIGATION REPORT.

B. IN ADDITION TO THE LATERAL EARTH PRESSURES OUTLINED ABOVE AND IN GEOTECHNICAL REPORT, SHEET PILE WALLS EXPECTED TO RECEIVE SURCHARGE LOADING FROM ADJACENT EXISTING STRUCTURES SHALL BE DESIGNED FOR 500 PSF SURCHARGE LOAD.

C. REFER TO CTA ADJACENT CONSTRUCTION MANUAL (ACM) FOR ADDITIONAL REQUIREMENTS.

D. CAST IN PLACE CONCRETE:

1. CONCRETE USED IN THE WORK SHALL BE NORMAL WEIGHT, HAVE THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS AND SHALL HAVE FIBER REINFORCEMENT PER SPECIFICATION AS INDICATED BELOW:

CLASS	DESCRIPTION	f'c (PSI)	FIBER*** REINFORCEMENT	AIR ENTRAINMENT	CORROSION INHIBITOR
A	FOOTING, GRADE BEAMS**, AND PILASTERS/PEDESTALS**	5000	NONE	6% +/- 1 1/2%	3 G/CY*
B	ELEVATOR PIT WALLS**	5000	NONE	6% +/- 1 1/2%	3 G/CY*
C	INTERIOR SLABS ON GRADE, EQUIPMENT PADS	5000	MICRO		

* = CALCIUM NITRITE CORROSION INHIBITOR
** = CONCRETE SHALL CONTAIN FLY ASH CEMENTITIOUS REPLACEMENT PER GENERAL NOTE G.3
*** = DOSAGE RATE OF 1.5 LBS/CUBIC YARD

2. AGGREGATES IN FOOTINGS, WALLS, SLABS EXPOSED TO WEATHER, AND EXTERIOR EXPOSED CONCRETES SHALL NOT CONTAIN ANY MATERIALS THAT ARE DELETERIOUSLY REACTIVE WITH THE ALKALIES IN THE CEMENT IN AN AMOUNT SUFFICIENT TO CAUSE EXCESSIVE EXPANSION OF MORTAR OR CONCRETE, EXCEPT AS PERMITTED IN ASTM C33 UPON APPROVED TESTING AND SERVICE RECORD, OR WITH THE ADDITION OF A MATERIAL TO MIXES THAT HAS BEEN SHOWN TO PREVENT HARMFUL EXPANSION DUE TO THE ALKALI-AGGREGATE REACTION.

3. PROVIDE 15 MIL VAPOR RETARDER BELOW INTERIOR SLABS ON GROUND.

4. NO ALUMINUM SHALL BE PLACED IN CONCRETE.

5. CONTROL JOINTS IN SLABS ON GRADE SHALL BE PLACED AS SHOWN ON PLANS. WHERE NOT SHOWN, JOINTS SHALL BE SPACED TO DIVIDE THE SLAB INTO PANELS NOT TO EXCEED 250 SQUARE FEET. THE LONGER DIMENSION OF EACH PANEL SHALL NOT EXCEED THE SHORTER DIMENSION BY MORE THAN 20%. JOINTS SHALL BE HAND TOOLED, CAST IN, OR SAW CUT USING A SOFT CUT SAW.

6. INDIVIDUAL SLAB POURS SHALL BE BOUNDED BY DESIGNATED CONSTRUCTION JOINTS AND SHALL NOT EXCEED 5000 SQUARE FEET.

7. IN WALLS, THE HORIZONTAL LENGTH OF PLACEMENT SHALL NOT EXCEED 60 FEET, (i.e. BETWEEN CONSTRUCTION/CONTROL JOINTS) WITH INTERMEDIATE CONTROL JOINTS SPACED AT 15'-0" CENTERS MAXIMUM FOR WALLS EXPOSED TO VIEW IN THE FINISHED WORK. INTERMEDIATE CONTROL JOINTS SHALL BE SPACED AT 30'-0" OC MAXIMUM FOR BASEMENT AND FOUNDATION WALLS, UNLESS NOTED OTHERWISE.

8. WHERE CONSTRUCTION JOINTS ARE INDICATED BY A JAGGED LINE AT THE INTERFACE OF THE TWO POURS, THE INTERFACE SHALL BE ROUGHENED TO A FULL AMPLITUDE OF APPROXIMATELY 1/4". CONSTRUCTION JOINTS NOT SHOWN SHALL BE LOCATED BY THE CONTRACTOR, APPROVED BY THE ARCHITECT/ENGINEER, TO LEAST IMPAIR THE STRENGTH OF THE STRUCTURE.

9. ALL EXPOSED CORNERS SHALL HAVE 3/4" CHAMFER, UNLESS NOTED OTHERWISE.

10. NO CALCIUM CHLORIDE SHALL BE USED IN CONCRETE.

11. NO WATER SHALL BE ADDED AT THE PROJECT SITE WITHOUT THE ENGINEER'S PERMISSION.

12. REJECT ANY CONCRETE THAT EXCEEDS THE SLUMP LIMITS, TOTAL ALLOWABLE MIXING TIME OR THE ALLOWABLE RANGE OF AIR-ENTRAINMENT NOTED IN THE SPECIFICATION.

13. COORDINATE EMBEDS AND ANCHORAGES FOR OTHER WORK TO BE ATTACHED OR ANCHORED TO CAST IN PLACE FOUNDATIONS.

14. WHERE NEW CONCRETE IS DEPOSITED AGAINST CONCRETE THAT IS GREATER THAN 28 DAYS OLD, ROUGHEN TO 1/4" AMPLITUDE AND THOROUGHLY CLEAN EXISTING SURFACE OF LAITANCE AND FOREIGN MATERIAL, AND SATURATE WITH WATER, SATURATED SURFACE DRY CONDITION (SSD). ALL STANDING WATER SHALL BE REMOVED PRIOR TO PLACEMENT OF NEW CONCRETE.

D. CAST IN PLACE CONCRETE (CONT):

16. CORING OF STRUCTURAL CONCRETE SLABS AND SLABS ON METAL DECK MAY BE PERMITTED FOR CORE DIAMETERS OF 4 INCHES OR LESS. SPACE CORES A MINIMUM OF 1'-6". ALL SUCH CORING WILL NOT BE PERMITTED UNLESS SPECIFICALLY REQUESTED BY CONTRACTOR AND APPROVED IN ADVANCE BY THE ARCHITECT/ENGINEER.

17. EVERY EFFORT SHALL BE EXERCISED TO AVOID CRACKS IN CONCRETE WORK. IN THE EVENT CRACKS DO OCCUR, REPAIR CRACKS AS REQUIRED BY SPECIFICATION SECTION 03 3000 PART 3 "CONCRETE REPAIRS". CRACKS OVER 0.04" SHALL BE REPAIRED BY MEANS OF A STRUCTURAL EPOXY GROUT.

18. ALL CONCRETE IS REINFORCED UNLESS SPECIFICALLY NOTED AS UNREINFORCED. REINFORCE ALL CONCRETE NOT OTHERWISE SHOWN WITH THE SAME REINFORCING AS IN SIMILAR SECTIONS OR AREAS.

E. MASONRY:

1. MASONRY BLOCK CELLS MAY BE GROUTED USING LOW LIFT METHODS, CONFORMING TO THE REQUIREMENTS OF TMS 602, INCLUDING MINIMUM GROUT SPACE, CONSOLIDATION TECHNIQUES AND CLEAN OUTS, WITH A MAXIMUM POUR HEIGHT OF 64 INCHES, OR TABLE 7, THE LESSER OF THESE TWO VALUES.

2. MASONRY BLOCK CELLS MAY BE GROUTED USING HIGH LIFT METHODS, CONFORMING TO THE REQUIREMENTS OF TMS 602, INCLUDING MINIMUM GROUT SPACE, MASONRY ASSEMBLY ATTAINS STRENGTH TO SUPPORT THE GROUT, THE REQUIRED USE OF SELF CONSOLIDATING GROUT, NO INTERMEDIATE REINFORCED BOND BEAMS ARE PLACED WITHIN THE TOP AND BOTTOM OF THE POUR HEIGHT AND CLEAN OUTS, WITH A MAXIMUM POUR HEIGHT OF 152 INCHES (12'-8"), OR TABLE 7, THE LESSER OF THESE TWO VALUES.

3. PARTIALLY GROUTED OR UNGROUTED ASSEMBLIES SHALL BE CONSTRUCTED TO MEET OR EXCEED A 28 DAY COMPRESSIVE STRESS (f'm) OF 2000 PSI (MIN) PER UNIT STRENGTH METHOD OF TMS 602.

4. CONCRETE BLOCK SHALL MEET OR EXCEED ASTM C90 SPECIFICATIONS A MINIMUM 28 DAY COMPRESSIVE STRESS OF 2000 PSI (AVERAGE OF THREE UNITS) PER ASTM C90 (NET AREA).

5. MORTAR SHALL BE TYPE "S" FOR ALL MASONRY WALLS.

6. GROUT MIX FOR MASONRY SHALL BE DESIGNED EMPLOYING ASTM C404 AGGREGATE AND SPECIFIED COMPRESSIVE STRENGTH PER ASTM C476 (COURSE)TO PROVIDE A MINIMUM 28 DAY STRENGTH OF 2000 PSI, IN ACCORDANCE WITH ASTM C 1019.

7. GROUT ALL BLOCK CORES CONTAINING VERTICAL BARS, HORIZONTAL BOND BEAMS, POST INSTALLED ANCHORS AND/OR ANCHOR BOLTS. COORDINATE ANCHOR LOCATIONS WITH STAIR, ELEVATOR OR OTHER ASSEMBLIES ANCHORING TO CMU WALLS.

8. PROVIDE 9 GAUGE TRUSS TYPE HORIZONTAL MASONRY REINFORCEMENT AT ALTERNATE COURSES (16" OC) TYPICAL ALL MASONRY WALLS, UNLESS NOTED OTHERWISE.

9. MASONRY CONSTRUCTION IS TO BE SPECIAL INSPECTED PER THE IBC BUILDING CODE.

10. VERTICAL CONTROL JOINTS SHALL BE 3/8 INCH WIDE OR AS SPECIFIED ON THE DRAWINGS AND FULL HEIGHT OF WALL AT LOCATIONS SHOWN ON THE ARCHITECTURAL DRAWINGS. WHERE NOT OTHERWISE SHOWN, JOINTS SHALL BE SPACED AT A MAXIMUM OF 24'-0" APART, ONE JOINT SHALL BE PLACED AT A MAXIMUM OF 4'-0" FROM INTERIOR/EXTERIOR CORNER. OTHER JOINTS ARE GENERALLY LOCATED AT EDGES OF OPENINGS, AND COORDINATED WITH THE ARCHITECT. HORIZONTAL REINFORCEMENT AT TOPS OF WALLS, AND AT EACH FLOOR OR ROOF FRAMING LEVEL, SHALL BE CONTINUOUS ACROSS CONTROL JOINTS. OTHER REMAINING HORIZONTAL JOINT REINFORCING SHALL BE DISCONTINUOUS AT MASONRY CONTROL JOINTS.

11. CONCRETE BLOCK AND BRICK VENEER WALLS: PROVIDE JOINT REINFORCING IN CMU WALLS WITH "HOOK AND EYE" TIES TO THE BRICK VENEER AT 16" OC IN EACH DIRECTION, UNLESS NOTED OTHERWISE.

12. SHORE ALL BOND BEAM MASONRY LINTELS UNTIL GROUT HAS REACHED THE MINIMUM SPECIFIED 28 DAY STRENGTH.

13. ALL STEEL LINTELS IN MASONRY WALLS MUST BE HOT DIP GALVANIZED.

14. ALL MASONRY ACCESSORIES MUST BE HOT DIP GALVANIZED OR STAINLESS STEEL.

15. REINFORCING BAR POSITIONERS SHALL BE COMMERCIAL, GALVANIZED POSITIONERS THAT PREVENT DISPLACEMENT OF THE REINFORCING BARS DURING CONSTRUCTION, INSTALLED AT INTERVALS NOT TO EXCEED 8 FEET AND 12 INCHES BELOW THE TOP OF EACH GROUT POUR.

16. PROVIDE DEVELOPMENT LENGTHS AND SPLICE LENGTHS PER TMS 602.

F. REINFORCING STEEL:

1. REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM A615 SPECIFICATIONS, GRADE 60. AND SHALL BE EPOXY COATED IN ACCORDANCE WITH ASTM A775 SPECIFICATIONS.

2. REINFORCING SHALL BE DETAILED ACCORDING TO THE ACI DETAILING MANUAL.

3. ALL CONTINUOUS REINFORCING IN GRADE BEAMS SHALL BE LAP-SPLICED WITH A CLASS "B" TENSION LAP. TOP BARS LAPPED AT MID-SPAN, AND BOTTOM BARS LAPPED AT CENTERLINE OF FOUNDATION SUPPORTS.

4. WELDED WIRE REINFORCING SHALL BE IN ACCORDANCE WITH ASTM A1064. FLAT SHEETS ONLY. LAP ENDS AND EDGES OF SHEETS MINIMUM OF 6". ALL REINFORCEMENT IN TOPPING SLABS SHALL BE EPOXY COATED.

5. SLABS ON GRADE SHALL BE REINFORCED AS INDICATED BELOW. LOCATE REINFORCEMENT 2" FROM TOP SURFACE. LAP AS INDICATED BELOW.

A. 5" SLAB: #4 BARS @ 16" OC EA. WAY - LAP 16"

6. AT ALL INTERIOR SLAB CORNERS, UNLESS SUCH CORNER IS RELIEVED BY A CONSTRUCTION JOINT, TWO #5 X 6'-0" SHALL BE PLACED DIAGONALLY AT THE MID-DEPTH OF THE SLAB.

7. FIELD WELDING, CUTTING OR BENDING OF REINFORCEMENT SHALL NOT BE ALLOWED UNLESS NOTED OTHERWISE OR UNLESS PRIOR APPROVAL IS OBTAINED FROM THE ARCHITECT / ENGINEER. CUT OR DAMAGED EPOXY COATED BARS SHALL BE REPAIRED PER THE SPECIFICATIONS.

8. COLUMN DOWELS AND ANCHOR RODS SHALL BE ACCURATELY LOCATED, SET WITH TEMPLATES, AND SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITY UNTIL THE STRUCTURE ABOVE IS IN PLACE. INSERTING DOWELS OR ANCHOR BOLTS INTO PARTIALLY HARDENED CONCRETE IS PROHIBITED.

9. PROVIDE CORNER BARS TO LAP WITH, AND TO MATCH SIZE AND SPACING OF, ALL HORIZONTAL BARS (INCLUDING, BUT NOT LIMITED TO: WALLS, BEAMS, GRADE BEAMS, BOND BEAMS, FOOTINGS, ETC.) UNLESS OTHERWISE NOTED.

10. PROVIDE 3" SBP (CONT. BOTTOM PLATE) AT 48" MAXIMUM CENTERS FOR POSITIONING ALL FOOTING BARS AND GRADE BEAM BOTTOM BARS, UNLESS OTHERWISE NOTED.

11. REINFORCING STEEL SHALL BE CONTINUOUS AND LAPPED WITH CLASS B TENSION LAP SPLICE, UNLESS OTHERWISE NOTED. MECHANICAL SPLICES MAY BE USED AT THE CONTRACTORS OPTION IF REQUESTED AND APPROVED IN ADVANCE BY THE ENGINEER (UNLESS SPECIFICALLY INDICATED AS LAP SPLICE).

12. LAP BARS AND SPLICE BARS ONLY AT LOCATIONS SHOWN ON THE DRAWINGS, OR AS APPROVED IN ADVANCE BY THE ENGINEER.

13. COVER ON REINFORCING SHALL BE AS FOLLOWS, UNO ON DWGS.

A. 3"____PLACED DIRECTLY AGAINST EARTH.
B. 2"_____CONCRETE CAST AGAINST FORMS TO BE EXPOSED TO EARTH OR WEATHER FOR BARS # 5 AND SMALLER.
C. 2"____CONCRETE CAST AGAINST FORMS TO BE EXPOSED TO EARTH OR WEATHER FOR BARS # 6 AND LARGER.
D. 3"____CLEAR TO TOP REINFORCEMENT FOR ELEMENTS EXPOSED TO AGGRESSIVE ENVIRONMENT.
E. 2"____CLEAR TO TOP REINFORCEMENT FOR ELEMENTS IN ENCLOSED SPACE.
F. 2"____BEAMS, COLUMNS, AND PILASTERS (TO TIES OR STIRRUPS), INTERIOR EXPOSURE.
G. 2"_____WALLS.
H. 2"____CLEAR TO BOTTOM REINFORCEMENT FOR FORMED SLABS.
I. 3"___CLEAR TO STIRRUPS AND TIES EXPOSED TO AGGRESSIVE ENVIRONMENT IN BEAMS AND COLUMNS.

14. FAN MAIN REINFORCING AROUND OPENINGS IN STRUCTURAL SLABS. DO NOT FIELD CUT BARS UNLESS STRUCTURAL ENGINEER'S APPROVAL IS OBTAINED.

15. FOR ALL VERTICAL BARS PROVIDE MATCHING DOWELS IN FOUNDATIONS WITH STANDARD HOOKS (PER ACI) AND LAP A MINIMUM CLASS "B" TENSION LAP SPLICE WITH THOSE VERTICAL BARS, UNLESS SPECIFICALLY SHOWN OTHERWISE.

16. PROVIDE ADEQUATE BAR SUPPORT FOR ALL REINFORCEMENT IN BEAMS, SLABS ON GRADE, SLABS ON FORM DECK, CAPS, ETC., TO MAINTAIN PROPER BAR OR MESH POSITION DURING PLACEMENT OF CONCRETE.

17. PROVIDE TENSION DEVELOPMENT AND SPLICE LENGTHS AS INDICATED ON LAP SPLICE TABLE ON SHEET S-001:

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Chicago, Illinois 60606
(312) 930-9119

CHICAGO TRANSIT AUTHORITY
ENGINEERING

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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	C. MIDKIFF
CHECKED BY	N. HUNT
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STRUCTURAL GENERAL NOTES

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VOLUME: 1 OF 1

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G. BASIC CORROSION PROTECTION SYSTEM:

1. EMBEDDED FOUNDATION CONNECTION PLATES, BOLTS AND/OR ANGLES SHALL BE HOT DIP GALVANIZED. EMBEDDED ITEMS SHALL COMPLY WITH ASTM A123.

2. PLATES AND INSERTS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION. ALL ITEMS NOTED TO BE GALVANIZED SHALL MEET ASTM A123 WITH A MINIMUM THICKNESS OF GRADE 100 (3.9 MILS).

3. CONCRETE MIXTURES SHALL INCLUDE BETWEEN 15%-25% FLY ASH REPLACEMENT OF CEMENTITIOUS MATERIAL FOR CONCRETE EXPOSED TO MOISTURE AND DEICING SALT AS DESIGNATED IN GENERAL NOTE SECTION C.

4. FOR CAST- IN-PLACE CONCRETE PROVIDE AIR ENTRAINMENT PER GENERAL NOTES AND SPECIFICATIONS.

5. PROVIDE A CORROSION INHIBITOR IN CONCRETE MIX REFERENCE CONCRETE SPECIFICATION. PROVIDE CALCIUM NITRITE.

6. REFERENCE CONCRETE SPECIFICATION FOR REQUIRED WATER TO CEMENT RATIO.

7. REFERENCE CONCRETE SPECIFICATION FOR SEALER FOR EXPOSED CONCRETE SURFACES. PROVIDE BASF HYDROZO 100, OR EQUAL.

8. ALL STRUCTURAL STEEL SHALL BE HOT DIPPED GALVANIZED PER ASTM A 123. GALVANIZER AND STEEL FABRICATOR SHALL FOLLOW THE RECOMMENDATIONS OF ASTM A 143 TO SAFEGUARD AGAINST EMBRITTLEMENT. ALL FASTENERS AND BOLTS TO BE GALVANIZED PER ASTM A 153.

9. PROTECT/MASK THE TOP OF GALVANIZED STEEL BEAMS TO RECEIVE HEADED SHEAR CONNECTORS.

10. ALL MASONRY ACCESSORIES AND STEEL LINTEL BEAMS SHALL BE HOT DIP GALVANIZED.

11. CONCRETE SLABS EXPOSED TO THE ENVIRONMENT, OR FOOT TRAFFIC, SHALL HAVE A CONCRETE HYDROZO SEALER, OR APPROVED EQUAL APPLIED.

12. ALL REINFORCEMENT SHALL BE EPOXY COATED, UNO IN THE PLANS.

H. CONNECTION TO CONCRETE AND MASONRY:

1. HEADED STUD ANCHORS (HSA) SHALL BE MADE FROM COLD DRAWN STEEL GRADES C-1015 THROUGH C-1020 PER ASTM A-108 AND SHALL BE WELDED PER MANUFACTURER'S RECOMMENDATIONS. A MINIMUM OF TWENTY PERCENT OF THE STUDS SHALL BE TESTED BY BENDING PER AWS D.1.1.

2. HILTI HAS BEEN USED AS THE BASIS OF DESIGN MANUFACTURER FOR ALL POST-INSTALLED ANCHORS. REFER TO SPECIFICATION 05 0100 "STRUCTURAL POST-INSTALLED ANCHORS" FOR ANCHOR PRODUCT AND INSTALLATION REQUIREMENTS. POST-INSTALLED ANCHORS SHALL BE USED ONLY WHERE SPECIFICALLY SHOWN ON DOCUMENTS. REFERENCE THE SPECIFICATION FOR PERMISSIBLE SUBSTITUTION OF OTHER MANUFACTURERS' PRODUCTS AND THE DRAWINGS FOR REQUIRED ANCHOR TYPE AND LOADS IMPOSED ON THE ANCHOR GROUPS.

3. POST-INSTALLED ANCHORS SHALL BE INSPECTED THROUGH THE ENTIRE INSTALLATION PROCESS AS REQUIRED BY SPECIFICATION 05 0100.

4. WHEN THE CONTRACTOR DESIRES TO USE POST-INSTALLED ANCHORS TO ACCOMMODATE AN UNFORESEEN CONDITION OR TO REMEDY NON-COMPLIANT CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A REPAIR PROCEDURE, WITH SUPPORTING CALCULATIONS, DETAILING THE REPAIR, INSTALLATION, AND INSPECTION OF THE ANCHORS FOR WRITTEN APPROVAL BY THE ARCHITECT/ENGINEER PRIOR TO BEGINNING WORK. THE REPAIR PROCEDURE SHALL MEET THE REQUIREMENTS OF THE POST-INSTALLED ANCHOR SPECIFICATION.

5. WHEN ANCHORS ARE TO BE INSTALLED IN CONCRETE MASONRY, THE CELLS TO RECEIVE THE ANCHORS SHALL BE GROUTED SOLID. ADDITIONAL GROUTING MAY BE REQUIRED AT ANCHOR LOCATIONS. COORDINATE MASONRY GROUTING WITH ALL PLANNED ANCHOR LOCATIONS PRIOR TO WALL CONSTRUCTION.

6. ALL INSERTS AND PLATES EMBEDDED IN CONCRETE OR MASONRY AND PERMANENTLY EXPOSED TO THE ELEMENTS, OR AS NOTED ON DRAWINGS TO BE GALVANIZED, SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION, UNLESS NOTED OTHERWISE. ALL ITEMS NOTED TO BE GALVANIZED SHALL MEET ASTM A 525 G90. STAINLESS STEEL ITEMS SHALL MEET ASTM A304. REFERENCE THE SPECIFICATION FOR POST-INSTALLED MATERIALS.

I. STRUCTURAL STEEL:

1. IT IS THE INTENT OF THESE DOCUMENTS TO SHOW THE DESIGN OF THE STEEL STRUCTURE AND THEIR CONNECTIONS. CONNECTION DESIGN IS EITHER SHOWN IN SPECIFIC DETAILS OR IS TO BE SELECTED BY THE FABRICATOR FROM TABLES IN THESE DOCUMENTS. WHERE THE FABRICATOR FEELS A SPECIFIC CONNECTION IS NOT SHOWN OR IS UNCLEAR, A SIMILAR CONNECTION TYPE SHALL BE ASSUMED FOR BIDDING, BUT THAT CONNECTION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR PREVIEW PRIOR TO DETAILING THE SHOP DRAWINGS.

2. STRUCTURAL STEEL SHALL MEET THE AISC "SPECIFICATION FOR STRUCTURAL STEEL FOR BUILDINGS" DATED JULY 7, 2016, FROM THE FIFTEENTH EDITION OF THE AISC MANUAL OF STEEL CONSTRUCTION.

3. STRUCTURAL STEEL W SHAPES SHALL MEET ASTM A992, GRADE 50.
ANGLES AND CHANNELS SHALL MEET ASTM A992, GRADE 50.
STRUCTURAL TUBING SHALL MEET ASTM A500, GRADE C, Fy = 50 KSI.
PLATES SHALL MEET ASTM A572, GRADE 50.
THREADED RODS SHALL MEET ASTM A36.
STAINLESS STEEL SHALL MEET ASTM A276, TYPE 304, CLASS A.

4. ALL BOLTS SET IN CONCRETE SHALL BE FURNISHED WITH DOUBLE NUTS AND SHALL BE SET WITH A TEMPLATE. BOLTS INDICATED AS ANCHOR RODS (AR) SHALL CONFORM TO ASTM F1554, GRADE 36, UNLESS NOTED OTHERWISE. SEE BASE PLATE SCHEDULE ON S-620 FOR ANCHOR ROD GRADE.

5. ALL BOLTED BEAM AND COLUMN CONNECTIONS SHALL BE MADE WITH ASTM F 3125, GRADE A325 BOLTS AND ACCESSORIES, AND ASSUMED TO BE TYPE N, UNLESS OTHERWISE NOTED.

6. UNLESS NOTED AS SLIP-CRITICAL, ALL BOLTS IN INTERIOR CONDITIONS SHALL BE TIGHTENED TO A SNUG TIGHT CONDITION SO THAT ALL PLIES ARE FIRMLY IN CONTACT, AND SHALL BE VISUALLY INSPECTED BY A TESTING AGENCY FOR CONFORMANCE. ALL BOLTS IN EXTERIOR CONDITIONS SHALL BE FULLY PRETENSIONED PER IDCM CHAPTER 7 SECTION 4.4.3.

7. ALL BOLTS INDICATED AS SLIP CRITICAL (SC) SHALL BE FURNISHED WITH COMPRESSIBLE WASHER TYPE DIRECT TENSION INDICATORS MEETING OR EXCEEDING ASTM F959-94.

8. WELDING – ALL WELDING SHALL BE IN ACCORDANCE WITH THE LATEST STRUCTURAL WELDING CODE AWS D1.1., AND AWS D1.6 FOR STAINLESS STEEL.

9. FIELD WELDING IS NOT ALLOWED. UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS OR APPROVED BY THE DOR AND CTA.

10. A SPECIAL INSPECTOR WILL BE RETAINED BY THE OWNER TO PERFORM INSPECTIONS OF WELDING AND HIGH STRENGTH BOLTING OPERATIONS AS REQUIRED BY THE IBC BUILDING CODE AND AS DIRECTED BY THE GOVERNING BUILDING OFFICIAL.

11. SEE ARCHITECTURAL PLANS FOR FIRE PROOFING REQUIREMENTS.

12. WHERE LONG SLOTTED HOLES ARE NOTED ON DRAWINGS, PROVIDE PLATE WASHERS PER AISC SPECIFICATION J3.2.(g).

13. E70XX ELECTRODES SHALL BE USED FOR ALL WELDING. ELECTRODES USED FOR FULL PENETRATION WELDED MOMENT CONNECTIONS SHALL MEET CVN TOUGHNESS CRITERIA OF 20 FOOT POUNDS AT -20° F.

14. NO COLUMN OR BEAM SPLICES, UNLESS CLEARLY INDICATED ON STRUCTURAL DRAWINGS, WILL BE ALLOWED WITHOUT WRITTEN APPROVAL OF STRUCTURAL ENGINEER.

15. ALL STRUCTURAL STEEL AND BOLTS MUST BE HOT DIPPED GALVANIZED PER ASTM A123.

16. ELECTRICAL ISOLATION BEARING PADS SHALL BE LOCATED BETWEEN BASE PLATE AND SUPPORTING FOUNDATION. BEARING PADS SHALL BE FABRICATED OF LAMINATED COTTON DUCK MATERIAL, REFERENCE SPECIFICATIONS.

17. PROVIDE EXPANSION JOINTS IN TOP RAIL OF HANDRAILS AND GUARDRAILS WITH A MINIMUM GAP WIDTH OF 1/2" AND WITH AN INTERNAL SLEEVE FOR ALIGNMENT.

J. METAL DECK:

1. NON-COMPOSITE METAL DECK (STAIR AND PLATFORM CANOPIES):
METAL DECK SHALL BE 1" "C", 20 GAGE METAL DECK CONTINUOUS OVER 3 OR MORE SPANS. FURNISH IN SINGLE SHEETS. ALL DECK SHALL BE GALVANIZED PER ASTM A653, G60. METAL DECK IS DESIGNED FOR DIAPHRAGM ACTION AND SHALL BE FASTENED USING #12 SCREWS TO ALL SUPPORTS PER STEEL DECK INSTITUTE 32/4 OR 36/4 PATTERN AS FOLLOWS:

32/4 OR 36/4 – END LAP SHALL BE FASTENED THROUGH BOTH PIECES, AT EACH SIDE LAP AND TWO FLUTES BETWEEN. AT INTERMEDIATE SUPPORTS, FASTENERS SHALL OCCUR AT EACH SIDE LAP AND AT TWO FLUTES BETWEEN.

SIDE LAPS SHALL BE #10 SCREW FASTENERS AT MAX 12" OC BETWEEN SUPPORTS. AT PERIMETER EDGES PARALLEL TO DECK FLUTES, PROVIDE #12 SCREWS AT 12" OC TO SUPPORTS, UNLESS NOTED OTHERWISE ON DETAILS.

MINIMUM YIELD STRENGTH:	80 KSI	SECTION MODULUS:	0.160 IN 3
DESIGN THICKNESS:	0.0358 IN	MOMENT OF INERTIA:	0.083 IN 4

2. METAL ROOF DECK (ELECTRICAL BUILDING AND ELEVATOR TOWERS):
METAL ROOF DECK SHALL BE 1 1/2" "B", 20-GAGE METAL DECK CONTINUOUS OVER 3 OR MORE SPANS. FURNISH IN SINGLE SHEETS. ALL DECK SHALL BE GALVANIZED PER ASTM A653, G60. ROOF DECK IS DESIGNED FOR DIAPHRAGM ACTION AND SHALL BE FASTENED USING #12 SCREWS TO ALL SUPPORTS PER STEEL DECK INSTITUTE 36/4 PATTERN AS FOLLOWS:

36/4 - END LAP SHALL BE FASTENED THROUGH BOTH PIECES, AT EACH SIDE LAP AND AT ALTERNATING FLUTES BETWEEN. AT INTERMEDIATE SUPPORTS, FASTENERS SHALL OCCUR AT EACH SIDE LAP AND AT ALTERNATING FLUTES BETWEEN.

SIDE LAPS SHALL BE #10 SCREW FASTENERS AT MAX 6" OC BETWEEN SUPPORTS. AT PERIMETER EDGES PARALLEL TO DECK FLUTES, PROVIDE #12 SCREWS AT 6" OC TO SUPPORTS, UNLESS NOTED OTHERWISE ON DETAILS.

MINIMUM YIELD STRENGTH:	50 KSI	SECTION MODULUS:	0.224 IN 3
DESIGN THICKNESS:	0.0358 IN	MOMENT OF INERTIA:	0.201 IN 4

3. METAL DOVETAIL ROOF DECK (SWMS WATER TRAY):
METAL ROOF DECK SHALL BE 2" DOVETAIL, 20-GAGE METAL DECK CONTINUOUS OVER 3 OR MORE SPANS. FURNISH IN SINGLE SHEETS. ALL DECK SHALL BE GALVANIZED PER ASTM A653, G60. ROOF DECK IS DESIGNED FOR DIAPHRAGM ACTION AND SHALL BE FASTENED USING #12 SCREWS TO ALL SUPPORTS PER STEEL DECK INSTITUTE 24/4 PATTERN AS FOLLOWS:

24/4 - END LAP SHALL BE FASTENED THROUGH BOTH PIECES, AT EACH SIDE LAP AND AT EACH FLUTE BETWEEN. AT INTERMEDIATE SUPPORTS, FASTENERS SHALL OCCUR AT EACH SIDE LAP AND AT EACH FLUTE BETWEEN.

SIDE LAPS SHALL BE #10 SCREW FASTENERS AT MAX 12" OC BETWEEN SUPPORTS. AT PERIMETER EDGES PARALLEL TO DECK FLUTES, PROVIDE #12 SCREWS AT 12" OC TO SUPPORTS, UNLESS NOTED OTHERWISE ON DETAILS.

SIDE LAPS SHALL BE #10 SCREW FASTENERS AT MAX 12" OC BETWEEN SUPPORTS. AT PERIMETER EDGES PARALLEL TO DECK FLUTES, PROVIDE #12 SCREWS AT 12" OC TO SUPPORTS, UNLESS NOTED OTHERWISE ON DETAILS.

MINIMUM YIELD STRENGTH:	40 KSI	SECTION MODULUS:	0.346 IN 3
DESIGN THICKNESS:	0.0358 IN	MOMENT OF INERTIA:	0.437 IN 4

4. NO HUNG OR SUSPENDED TYPE OF ATTACHMENTS TO THE METAL ROOF DECK WILL BE ALLOWED, INCLUDING BUT NOT LIMITED TO ELECTRICAL CONDUIT, LUMINAIRE SUPPORTS, PLUMBING/DRAIN PIPING, HVAC DUCTS OR UNITS AND SUSPENDED TYPE CEILINGS. THESE ITEMS SHALL BE SUPPORTED FROM THE STRUCTURAL STEEL FRAMING.

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K. STRUCTURAL METAL STUDS:

1. THE DESIGN OF THE LIGHT GAGE METAL FRAMING IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE CALCULATIONS SEALED BY A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED FOR ALL LIGHT GAGE STEEL STUDS, COMPONENTS, TRUSSES, CONNECTIONS AND ETC. WHERE SHOWN, THE SIZES, GAGES AND FASTENERS SHALL BE CONSIDERED THE MINIMUM ALLOWED.

2. METAL FRAMING COMPONENTS SHALL BE FABRICATED OF STRUCTURAL QUALITY STEEL WITH A MINIMUM YIELD STRESS OF 33,000 PSI FOR 18 GAGE AND LIGHTER; 50,000 PSI FOR 16 GAGE AND HEAVIER; AND SHALL CONFORM TO ASTM A446, A570, OR A611, OR AS INDICATED ON THE PLANS AND SECTIONS.

3. METAL STUDS SHALL BE "C" SHAPED WITH MINIMUM 1 5/8" WIDE FLANGES AND 1/2" RETURNS UNLESS NOTED OTHERWISE ON DRAWINGS.

4. PROVIDE A MINIMUM 10" LENGTH OF UNPUNCHED STEEL REQUIRED AT BOTH ENDS OF MEMBERS INCLUDING WALL STUDS. WHEN FIELD CUTTING REDUCES THIS MINIMUM 10" UNPUNCHED STEEL, WEB STIFFENING MAY BE REQUIRED PER THE STUD MANUFACTURERS RECOMMENDATIONS.

5. PROVIDE DOUBLE STUDS ON EACH SIDE OF OPENINGS IN WALLS OR HORIZONTAL PANELS UNLESS MORE STRINGENT REQUIREMENTS ARE SHOWN ON THESE DRAWINGS, OR RECOMMENDED BY THE LIGHT GAGE FRAMING MANUFACTURER.

6. PROVIDE MINIMUM 16-GAGE STUDS FOR ALL LOCATIONS PROVIDING BACK-UP TO BRICK VENEER WALLS.

7. PROVIDE MINIMUM DOUBLE-STUDS, NO LESS THAN 16-GAGE, NO LESS THAN 4-INCHES WIDE COMBINED WIDTH, TO ALIGN WITH AND COORDINATE WITH LOCATION OF VERTICAL JOINTS IN EXTERIOR METAL-PANEL WALL SYSTEMS. COORDINATE LOCATIONS AND REQUIREMENTS WITH METAL-PANEL WALL MANUFACTURER'S REQUIREMENTS.

L. MISCELLANEOUS MEP ANCHORAGES AND PENETRATIONS:

1. ELECTRICAL CONDUIT OR PLUMBING SHALL BE INSTALLED BELOW THE CONCRETE FLOOR STRUCTURE AND SHALL NOT BE EMBEDDED IN CONCRETE SLABS. WHERE CONDUIT OR PLUMBING MUST PENETRATE THE CONCRETE STRUCTURE, THE FOLLOWING GUIDELINES MUST BE FOLLOWED:

   A. CONDUIT LOCATION AND PLACEMENT SHALL BE APPROVED BY THE ARCHITECT/ENGINEER PRIOR TO PLACING OF CONCRETE.

   B. WHERE CONDUIT PASSES THROUGH CONCRETE, USE GALVANIZED OR PVC PIPE SLEEVES AT LEAST 2" DIAMETER LARGER THAN THE CONDUIT EMBEDDED IN THE CONCRETE. WHERE SOIL BACKFILL WILL BE PLACED AGAINST SLEEVES FILL GAP BETWEEN SLEEVE AND PIPE OR CONDUIT WITH COMPRESSIBLE MATERIAL TO PREVENT BACKFILL FROM ENTERING SLEEVE.

   C. CONDUIT SHALL ONLY PENETRATE SLABS VERTICALLY.

   D. CONDUIT GROUPS SHALL NOT BE LARGER THAN 12" PERPENDICULAR TO THE FLUTES OF THE DECK UNLESS THE DECK OPENING IS STRUCTURALLY FRAMED. REFERENCE TYPICAL DETAILS FOR DECK REINFORCING FOR OPENINGS LARGER THAN 6".

   E. REFERENCE ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS OF FLOOR, WALL AND ROOF PENETRATIONS.

2. THE STRUCTURE IS DESIGNED TO SUPPORT THE WEIGHT OF ELECTRICAL, PLUMBING AND MECHANICAL UNITS SHOWN. IT IS THE RESPONSIBILITY OF THE ELECTRICAL AND MECHANICAL CONTRACTOR TO DESIGN, ENGINEER, AND SUPPLY ALL ITEMS USED TO SUPPORT THE MECHANICAL OR ELECTRICAL EQUIPMENT FROM OR ON THE STRUCTURE, INCLUDING SEISMIC BRACING REQUIRED FOR EQUIPMENT AND PIPING.

M. SUBMITTALS:

1. HNTB CORPORATION WILL REVIEW SHOP DRAWINGS AND RELATED SUBMITTALS (AS INDICATED BELOW) WITH RESPECT TO THE ABILITY OF THE DETAILED WORK, WHEN COMPLETE, TO PROPERLY FUNCTION AS AN INTEGRAL ELEMENT OF THE OVERALL STRUCTURAL SYSTEM DETAILED ON THESE DRAWINGS. THIS REVIEW WILL NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY FOR ERRORS, CORRECTNESS OF DETAILS, OR CONFORMANCE WITH THE CONTRACT. ALLOW 10 WORKING DAYS AFTER RECEIPT AT ENGINEER'S OFFICE FOR REVIEW OF ALL STRUCTURAL SUBMITTALS.

2. ALL SUBMITTALS SUBMITTED IN PDF FORM SHALL BE BOOKMARKED WITH THE SHEET NUMBER AND TITLE.

3. ANY REVISIONS TO SUBMITTALS SHALL HAVE ALL CHANGES CLOUDED.

4. PRIOR TO SUBMITTAL OF A SHOP DRAWING OR RELATED SUBMITTAL THE GENERAL CONTRACTOR SHALL:

   A. REVIEW EACH SUBMISSION FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS.
   B. REVIEW EACH SUBMISSION FOR CONFORMANCE WITH THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND OPERATIONS OF CONSTRUCTION; AND SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO, ALL OF WHICH ARE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
   C. IDENTIFY ANY VARIATION FROM THE CONTRACT DOCUMENTS.
   D. REVIEW AND APPROVE EACH COMPLIANT SUBMISSION. NON COMPLIANT SUBMISSIONS SHALL BE RETURNED TO THE SUBCONTRACTOR AND APPROVED SUBMISSIONS SHALL BE STAMPED THUS.
   E. THE CONTRACTOR SHALL CLEARLY INDICATE THE SPECIFIC USE(S) FOR EACH SUBMITTAL. FOR SUBMITTALS CONTAINING MULTIPLE PRODUCTS, EACH PRODUCTS USE SHALL BE CLEARLY INDENTIFIED.

5. THE FOLLOWING IS A PARTIAL LIST OF REQUIRED STRUCTURAL SHOP DRAWINGS AND RELATED SUBMITTALS. REFER TO THE SPECIFICATIONS FOR MORE INFORMATION AND A COMPLETE LIST OF REQUIRED SUBMITTALS:

   A. ANCHOR ROD LAYOUT DRAWINGS.
   B. CONCRETE MIX DESIGNS, TESTS AND MATERIAL CERTIFICATIONS.
   C. CONCRETE REINFORCING SHOP DRAWINGS, REINFORCING MATERIAL CERTIFICATIONS.
   D. CMU AND BRICK MATERIAL CERTIFICATIONS, GROUT MIX DESIGN AND MORTAR MIX DESIGN.
   E. CMU REINFORCING SHOP DRAWINGS INCLUDING PLACEMENT DRAWINGS.
   F. STRUCTURAL STEEL FABRICATION DRAWINGS & STRUCTURAL STEEL MILL CERTIFICATES.
   G. WELD PROCEDURES & WELDERS CERTIFICATES.
   H. STEEL DECK SHOP DRAWINGS.
   I. POST-INSTALLED ANCHORS.
   J. MICROPILE DRAWINGS, CALCULATIONS, AND TESTING PLAN.
   K. TEMPORARY SHEET PILING DRAWINGS, CALCULATIONS, AND TESTING PLAN.

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VOLUME: 1 OF 1

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Special Inspection of Steel Construction - AISC 360 Chapter N, SDI QA/QC, IBC Table 1705.2.3 and IBC Paragraph 1705.2.4

Req'd	Inspection Task	Continuous	Periodic
	AISC N5.4 Inspection of Welding:		
Yes	N5.4.a. Inspection Tasks Prior to Welding. Table N5.4-1.		X
Yes	N5.4.b. Inspection Tasks During Welding. Table N5.4-2.		X
Yes	N5.4.c. Inspection Tasks After Welding. Table N5.4-3		X
	AISC N5.5 Nondestructive Testing of Welded Joints		
Yes	N5.5.a. CJP Groove Weld NDT UT Procedure	X 100%	
No	N5.5.b. Access hole NDT MT or PT Procedure.	X	
No	N5.5.c. Welded Joints Subjected to Fatigue.	X	
	AISC N5.6 Inspection of High-Strength Bolting		
Yes	N5.6.a. Inspection Tasks Prior to Bolting. Table N5.6-1.		X
Yes	N5.6.b. Inspection Tasks During Bolting. Table N5.6-2.		X
Yes	N5.6.c. Inspection Tasks After Bolting. Table N5.6-3.	X	
	AISC N5.8 Other Inspection Tasks		
Yes	N5.8.a. Placement of Anchor Rods and other Embeds.	X	
Yes	N5.8.b. Inspection of fabricated and erected steel for compliance with the construction documents.		X
	SDI 6.1 Steel Deck Quality Assurance Tasks		
Yes	6.1.A. Verification of Mill Certificates	X	
Yes	6.1.B. Inspection of field welding of deck in accordance with AWS D1.3, SDI C, SDI NC, and SDI RD.		X
Yes	6.1.C. Inspection of mechanical fasteners of deck in accordance with SDI C, SDI NC, SDI RD and manufacturer's instructions.		X
Yes	6.1.D. Inspection of Steel Deck installation in accordance with the Construction Documents.		X
	6.1.1. Installation of Open-Web Steel Joists and Joist Girders		
Yes	6.1.1.a. End Connections		X
	6.1.1.b. Badging		
Yes	6.1.1.b.1. Standard Bridging		X
No	6.1.1.b.2. Bridging that differs from SJI specifications.		X
No	1705.2.4 Cold-formed steel trusses spanning 60 feet or greater: Verify the temporary and/or permanent installation restraint/bracing are installed in accordance with the approved truss submittal package.	X	

Special Inspection of Concrete Construction - Table 1705.3

Req'd	Inspection Task	Continuous	Periodic
Yes	1. Inspect reinforcement, including prestressing tendons, and verify placement.		X
	2. Reinforcing bar welding:		
No	2.a. Verify weldability of reinforcing bars not ASTM A 706.		X
No	2.b. Inspect single-pass fillet welds, max 5/16"		X
No	2.c. Inspect all other welds	X	
Yes	3. Inspect anchors cast in concrete.		X
	4. Inspection of anchors post-installed in hardened concrete members.		
Yes	4.a. Adhesive anchors installed in horizontally or upwardly inclined to resist sustained tension load.	X	
Yes	4.b. Anchors not defined above.		X
Yes	5. Verifying use of required design mix.		X
Yes	6. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	X	
No	7. Inspection of concrete and shotcrete placement for proper application techniques	X	
Yes	8. Verify maintenance of specified curing temperature and techniques.		X
	9. Inspection of prestressed concrete:		
No	9.a. Application of prestressed forces.	X	
No	9.b. Grouting of bonded prestressing tendons in the seismic-force-resisting system..	X	
No	10. Erection of precast concrete members		X
No	11. Verification of in-situ concrete strength prior to removal of shores and forms from beams and structural slabs		X
Yes	12. Inspect formwork for shape, location, and dimensions of the concrete member being formed.		X

Special Inspection of Masonry Construction - TMS 402/602 Table 3- Level 2

Req'd	Inspection Task	Continuous	Periodic
Yes	1. Verify compliance with the approved submittals		X
	2. As masonry construction begins, verify that the following are in compliance		
Yes	2.a. Proportions of site-prepared mortar		X
Yes	2.b. Construction of mortar joints		X
No	2.c. Grade and size of prestressing tendons and anchorages:		X
Yes	2.d. Locations of reinforcement, connectors and prestressing tendons and anchorages.		X
No	2.e. Prestressing technique		X
No	2.f. Properties of thin-bed mortar for ACC masonry	X	X
	3. Prior to grouting verify the following are in compliance:		
Yes	3.a. Grout space		X
Yes	3.b. Grade, type, and size of reinforcement and anchor bolts, and prestressing tendons and anchorages		X
Yes	3.c. Placement of reinforcement, connectors and prestressing tendons and anchorages		X
Yes	3.d. Proportions of site-prepared grout and prestressing grout for bonded tendons		X
Yes	3.e. Construction of mortar joints		X
	4. Verify during construction		
Yes	4.a. Size and location of structural elements		X
Yes	4.b. Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction.		X
No	4.c. Welding of reinforcement	X	
Yes	4.d. Preparation, construction, and protection of masonry during cold weather (temperature below 40ºF or hot weather (temperature above 90ºF.		X
No	4.e. Application and measurement of prestressing force.	X	
Yes	4.f. Placement of grout and prestressing grout for bonded tendons is in compliance	X	
No	4.g. Placement of AAC masonry units and construction of thin-bed mortar joints	X	X
Yes	5. Observe preparation of grout specimens, mortar specimens, and/or prisms		X

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ALL STATIONS ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	C. MIDKIFF
CHECKED BY	N. HUNT
DESIGNED BY	C. MIDKIFF
DRAWN BY	C. BRYANT

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INSPECTION SCHEDULES

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VOLUME: 1 OF 1

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Special Inspection of Soils - Table 1705.6

Req'd	Inspection Task	Continuous	Periodic
Yes	1. Verify materials below footings are adequate to achieve the design bearing capacity.		X
Yes	2. Verify excavations are extended to proper depth and have reached proper material.		X
Yes	3. Perform classification and testing of controlled fill materials.		X
Yes	4. Verify use of proper materials, densities and lift thicknesses during placement and compaction of controlled fill.	X	
Yes	5. Prior to placement of controlled fill, observe subgrade and verify that site has been prepared properly.		X

Special Inspection of Cast-in-place Deep Foundation Elements - Table 1705.8

Req'd	Inspection Task	Continuous	Periodic
Yes	1. Inspect drilling operations and maintain complete and accurate records for each element.	X	
Yes	2. Verify placement locations and plumbness, confirm element diameters, bell diameters (if applicable), lengths, embedment into bedrock (if applicable) and adequate end bearing strata capacity. Record concrete or grout volumes.	X	
No	3. For concrete elements, perform additional inspections in accordance with Section 1705.3.		

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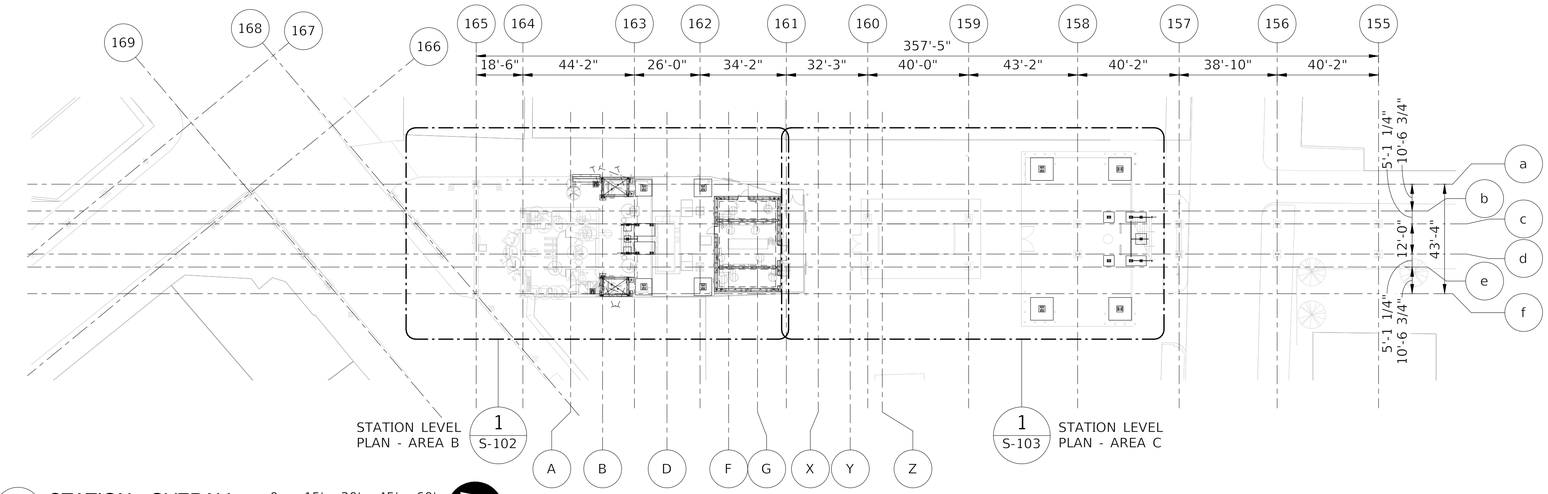
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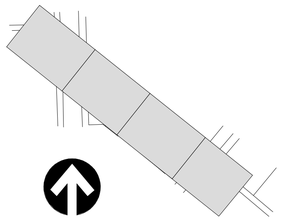
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1 / S-100 STATION - OVERALL
SCALE: 1" = 30'-0"

0 15' 30' 45' 60'
SCALE: 1"=30'-0"

NORTH



SHEET NOTES - STATION LEVEL

(Notes are per level.)

1. REFERENCE SHEET S-001 AND S-002 FOR DRAWING KEYS, STRUCTURAL ABBREVIATIONS, AND OTHER GENERAL INFORMATION.
2. REFERENCE SHEET S-003 THROUGH S-008 FOR STRUCTURAL GENERAL NOTES AND INSPECTION TABLES.
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6. REFERENCE S-3XX SHEETS FOR BUILDING AND STAIR SECTIONS.
7. REFERENCE S-4XX SHEETS FOR ENLARGED PLANS.
8. REFERENCE S-6XX SHEETS FOR SCHEDULES.
9. TOP OF STATION LEVEL SLAB ELEVATION IS TYPICALLY 18'-4" CCD. REFERENCE PLAN AND ELEVATIONS WHERE SLAB OR FRAMING VARIES FROM THE TYPICAL ELEVATION.
10. FOR EDGE OF SLAB OR INTERIOR SLAB EDGE OPENING DIMENSIONS NOT SHOWN, REFERENCE ARCHITECTURAL SLAB PLANS.
11. NUMBERED GRIDS (E.G. 165, 164) AND LETTERED GRIDS (E.G. b, c, d, e) REPRESENT EXISTING TRACK STRUCTURE BENTS GRIDLINES. DIMENSIONS SHOWN ARE APPROXIMATE BASED ON EXISTING DRAWINGS AND SHALL BE VERIFIED IN THE FIELD.

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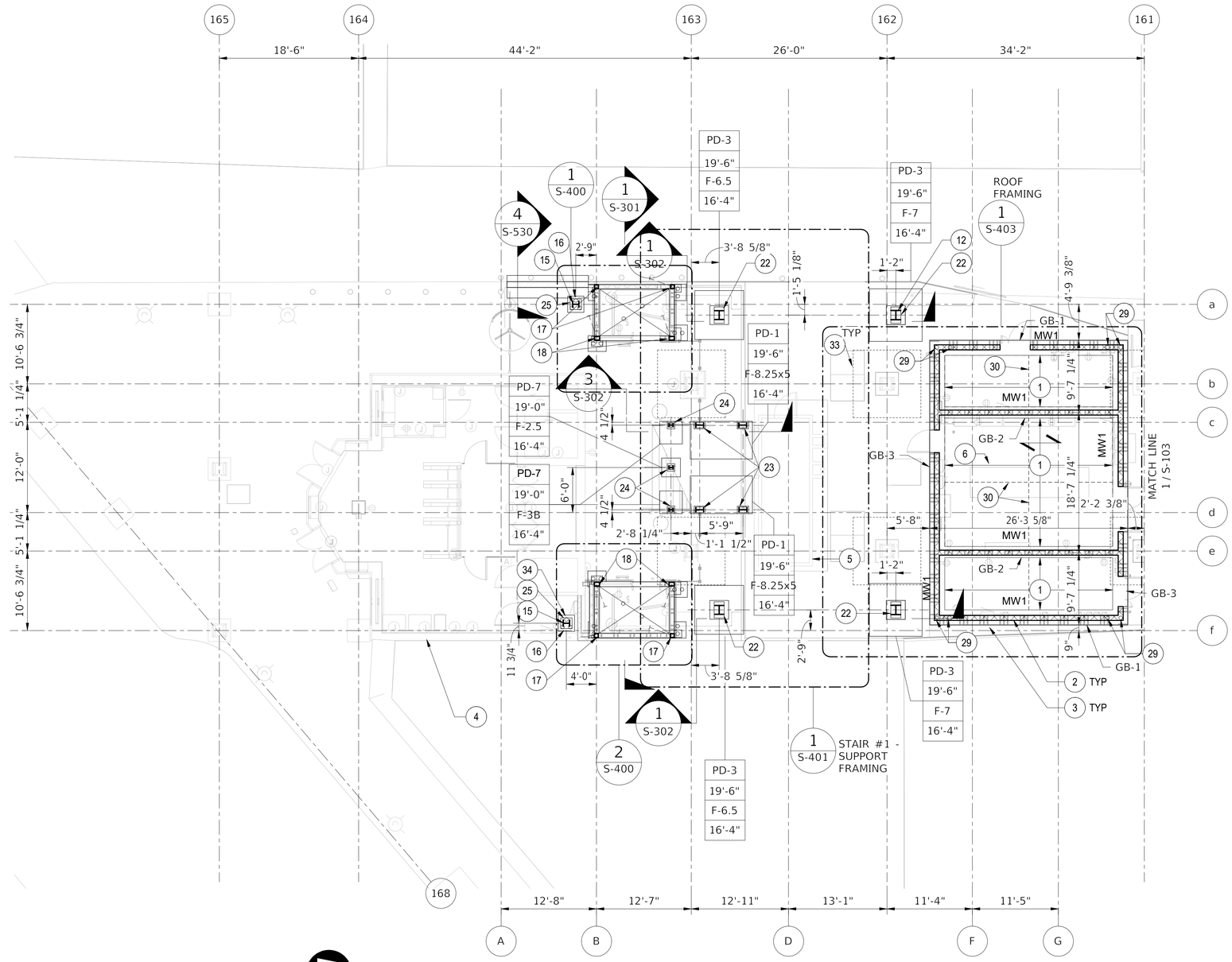
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STRUCTURAL STATION LEVEL PLAN - OVERALL

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1 S-102 STATION - AREA B
SCALE: 1/8" = 1'-0"

0 4' 8' 16'
SCALE: 1/8"=1'-0"

NORTH

NORTH

PLAN NOTES - STATION LEVEL

NO.	DESCRIPTION
1	5" SOG W/ #4@16" OC. T/SLAB = 19'-0"
2	MW1 = 8" NWT CMU WALL W/ #4@4'-0" OC VERT REINF, RE: 2/S-511.
3	CONTINUOUS GRADE BEAM. RE: 3/S-600.
4	EXISTING STATION HOUSE TO REMAIN.
5	EXISTING COMM HUT TO REMAIN.
6	SWITCHBOARD, RE: ELECTRICAL. MAX WEIGHT=4,000 LBS. PROVIDE 4" EQUIPMENT PAD. RE: 4/S-500.
12	STAIR COLUMN, TYP. RE: ELEVATIONS FOR SIZE
14	PEDESTAL TYPE AND ELEVATION VARIES. RE: 3/S-303
15	W10X49 PLATFORM SUPPORT COLUMN, RE: ENLARGED PLAN
16	PD-8, RE: SCHED & S-601 FOR MICROPILE LAYOUT
17	HSS6x6x1/2 COLUMN
18	HSS8x6x3/8 COLUMN
22	BP-01, RE: SCHEDULE ON SHEET S-620
23	BP-02, RE: SCHEDULE ON SHEET S-620
24	BP-03, RE: SCHEDULE ON SHEET S-620
25	BP-04, RE: SCHEDULE ON SHEET S-620
29	MICROPILE LOCATION, RE: S-601 FOR NOTES.
30	SLAB ON GRADE CONTROL JOINTS, RE: 4/S-501.
33	APPROXIMATE LOCATION OF EXISTING BENT FOOTING, V.I.F.
34	PROTECT EXISTING WALL AND FOUNDATION MINIMUM 5'-0" BEYOND THE DEMOLITION EXTENTS FOR NEW PEDESTAL AND TRACK SUPPORT COLUMN. SHORE EXISTING SOIL/FILL PRIOR TO EXCAVATION/DEMOLITION. REFER TO 4/AD-201 FOR DEMOLITION EXTENTS. CONTRACTOR TO DOCUMENT EXISTING CONDITIONS RELATIVE TO EXCAVATION/DEMOLITION EXTENTS NEEDED FOR EXISTING STRUCTURE AND SUBMIT TO STRUCTURAL ENGINEER FOR REVIEW PRIOR TO DEMOLITION ACTIVITIES. DOCUMENT EXISTING FOUNDATION, WALL, AND ROOF. REFER TO STRUCTURAL SHORING SPECIFICATION (31 15 00), GEOTECHNICAL INSTRUMENTATION/ MONITORING SPECIFICATION (31 09 13), AND VIBRATION MONITORING PROTOCOL SPECIFICATION (02 22 13) FOR FURTHER REQUIREMENTS.

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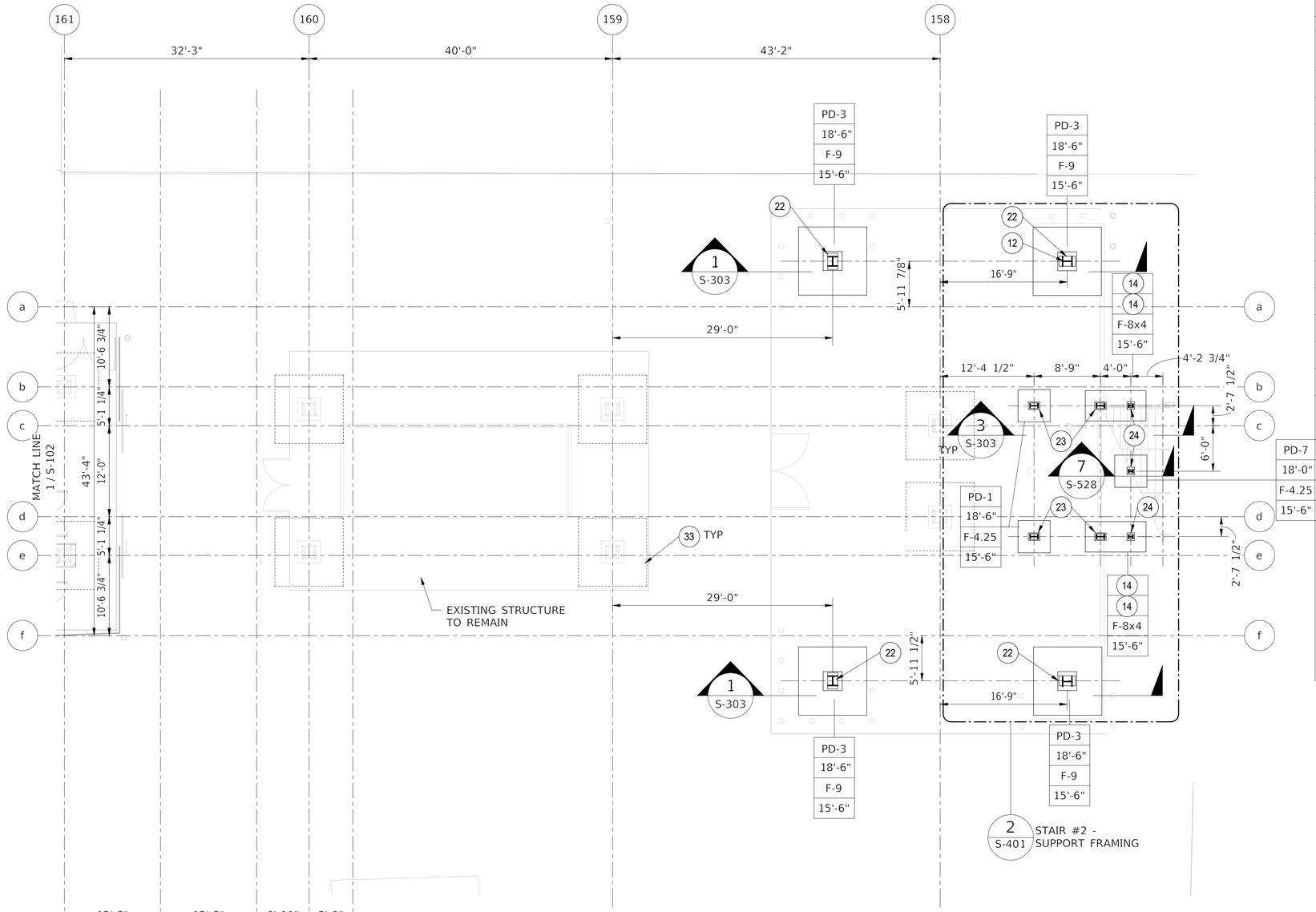
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IN CHARGE	I. COLLETTI
APPROVED BY	C. MIDKIFF
CHECKED BY	N. HUNT
DESIGNED BY	C. MIDKIFF
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STRUCTURAL STATION LEVEL PLAN - AREA B

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1 S-103 STATION - AREA C
SCALE: 1/8" = 1'-0"

PLAN NOTES - STATION LEVEL

NO.	DESCRIPTION
1	5" SOG W/ #4@16" OC. T/SLAB = 19'-0"
2	MW1 = 8" NWT CMU WALL W/ #4@4'-0" OC VERT REINF, RE: 2/S-511.
3	CONTINUOUS GRADE BEAM. RE: 3/S-600.
4	EXISTING STATION HOUSE TO REMAIN.
5	EXISTING COMM HUT TO REMAIN.
6	SWITCHBOARD, RE: ELECTRICAL. MAX WEIGHT=4,000 LBS. PROVIDE 4" EQUIPMENT PAD. RE: 4/S-500.
12	STAIR COLUMN, TYP. RE: ELEVATIONS FOR SIZE
14	PEDESTAL TYPE AND ELEVATION VARIES. RE: 3/S-303
15	W10X49 PLATFORM SUPPORT COLUMN, RE: ENLARGED PLAN
16	PD-8, RE: SCHED & S-601 FOR MICROPILE LAYOUT
17	HSS6x6x1/2 COLUMN
18	HSS8x6x3/8 COLUMN
22	BP-01, RE: SCHEDULE ON SHEET S-620
23	BP-02, RE: SCHEDULE ON SHEET S-620
24	BP-03, RE: SCHEDULE ON SHEET S-620
25	BP-04, RE: SCHEDULE ON SHEET S-620
29	MICROPILE LOCATION, RE: S-601 FOR NOTES.
30	SLAB ON GRADE CONTROL JOINTS, RE: 4/S-501.
33	APPROXIMATE LOCATION OF EXISTING BENT FOOTING, V.I.F.
34	PROTECT EXISTING WALL AND FOUNDATION MINIMUM 5'-0" BEYOND THE DEMOLITION EXTENTS FOR NEW PEDESTAL AND TRACK SUPPORT COLUMN. SHORE EXISTING SOIL/FILL PRIOR TO EXCAVATION/DEMOLITION. REFER TO 4/AD-201 FOR DEMOLITION EXTENTS. CONTRACTOR TO DOCUMENT EXISTING CONDITIONS RELATIVE TO EXCAVATION/DEMOLITION EXTENTS NEEDED FOR EXISTING STRUCTURE AND SUBMIT TO STRUCTURAL ENGINEER FOR REVIEW PRIOR TO DEMOLITION ACTIVITIES. DOCUMENT EXISTING FOUNDATION, WALL, AND ROOF. REFER TO STRUCTURAL SHORING SPECIFICATION (31 15 00), GEOTECHNICAL INSTRUMENTATION/ MONITORING SPECIFICATION (31 09 13), AND VIBRATION MONITORING PROTOCOL SPECIFICATION (02 22 13) FOR FURTHER REQUIREMENTS.

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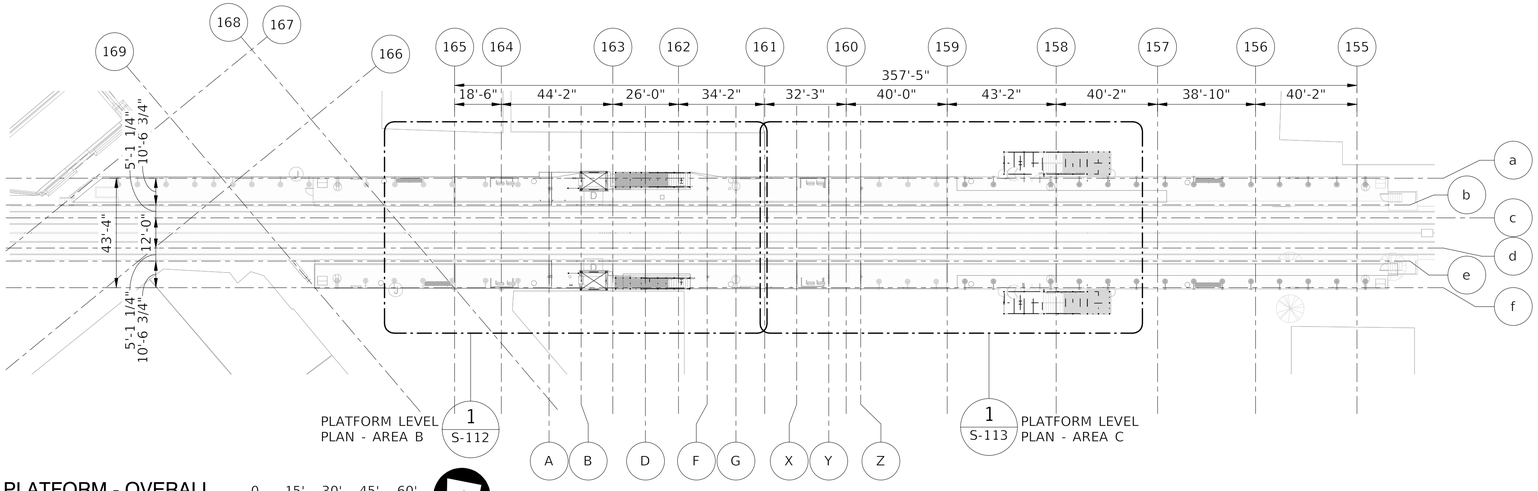
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STRUCTURAL STATION LEVEL PLAN - AREA C

LSCAL S-103
VOLUME: 1 OF 1

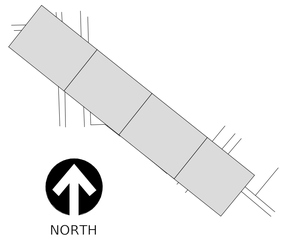
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1 S-110 PLATFORM - OVERALL
SCALE: 1" = 30'-0"

0 15' 30' 45' 60'
SCALE: 1"=30'-0"

NORTH



SHEET NOTES - PLATFORM LVL

(Notes are per level.)

1. REFERENCE SHEET S-001 AND S-002 FOR DRAWING KEYS, STRUCTURAL ABBREVIATIONS, AND OTHER GENERAL INFORMATION.
2. REFERENCE SHEET S-003 THROUGH S-008 FOR STRUCTURAL GENERAL NOTES AND INSPECTION TABLES.
3. REFERENCE S-500 AND S-501 SHEETS FOR CONCRETE AND FOUNDATION GENERAL DETAILS.
4. REFERENCE S-510 THROUGH S-513 SHEETS FOR MASONRY GENERAL DETAILS.
5. REFERENCE S-520 THROUGH S-524 SHEETS FOR STEEL, CONNECTIONS, AND BRACED FRAME GENERAL DETAILS.
6. REFERENCE S-3XX SHEETS FOR BUILDING AND STAIR SECTIONS.
7. REFERENCE S-4XX SHEETS FOR ENLARGED PLANS.
8. REFERENCE S-52X SHEETS FOR FRAMING DETAILS.
9. REFERENCE S-6XX SHEETS FOR SCHEDULES.
10. TOP OF PLATFORM ELEVATION IS TYPICALLY 41'-9" CCD, VERIFY IN FIELD, TO MATCH EXISTING. REFERENCE PLAN AND ELEVATIONS WHERE FRAMING VARIES FROM THE TYPICAL ELEVATION.
11. FOR EDGE OF SLAB OR INTERIOR SLAB EDGE OPENING DIMENSIONS NOT SHOWN, REFERENCE ARCHITECTURAL SLAB PLANS.

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STRUCTURAL PLATFORM LEVEL PLAN - OVERALL

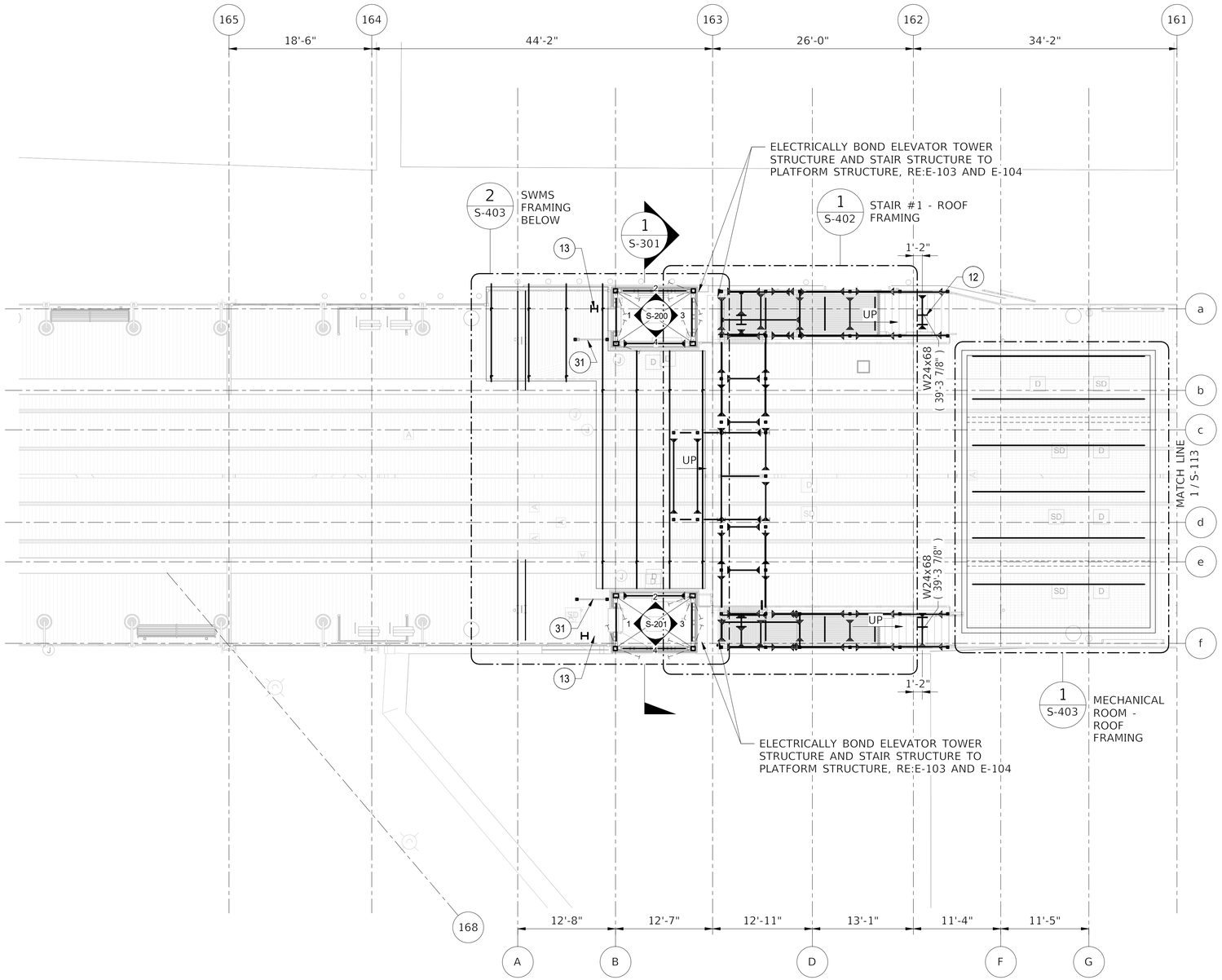
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VOLUME: 1 OF 1

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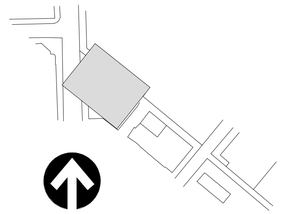
PLAN NOTES - PLATFORM LEVEL	
NO.	DESCRIPTION
12	STAIR COLUMN, TYP. RE: ELEVATIONS FOR SIZE
13	RE: 3/S-529
19	RE: DETAIL 7/S-529
20	RE: DETAIL 11/S-528
21	RE: DETAIL 5/S-529
26	RE: DETAIL 1/S-529
27	RE: DETAIL 2/S-529
31	WIND SCREEN FRAMING, RE: 3/S-521



1 PLATFORM - AREA B
S-112 SCALE: 1/8" = 1'-0"

0 4' 8' 16'
SCALE: 1/8"=1'-0"

NORTH



NORTH

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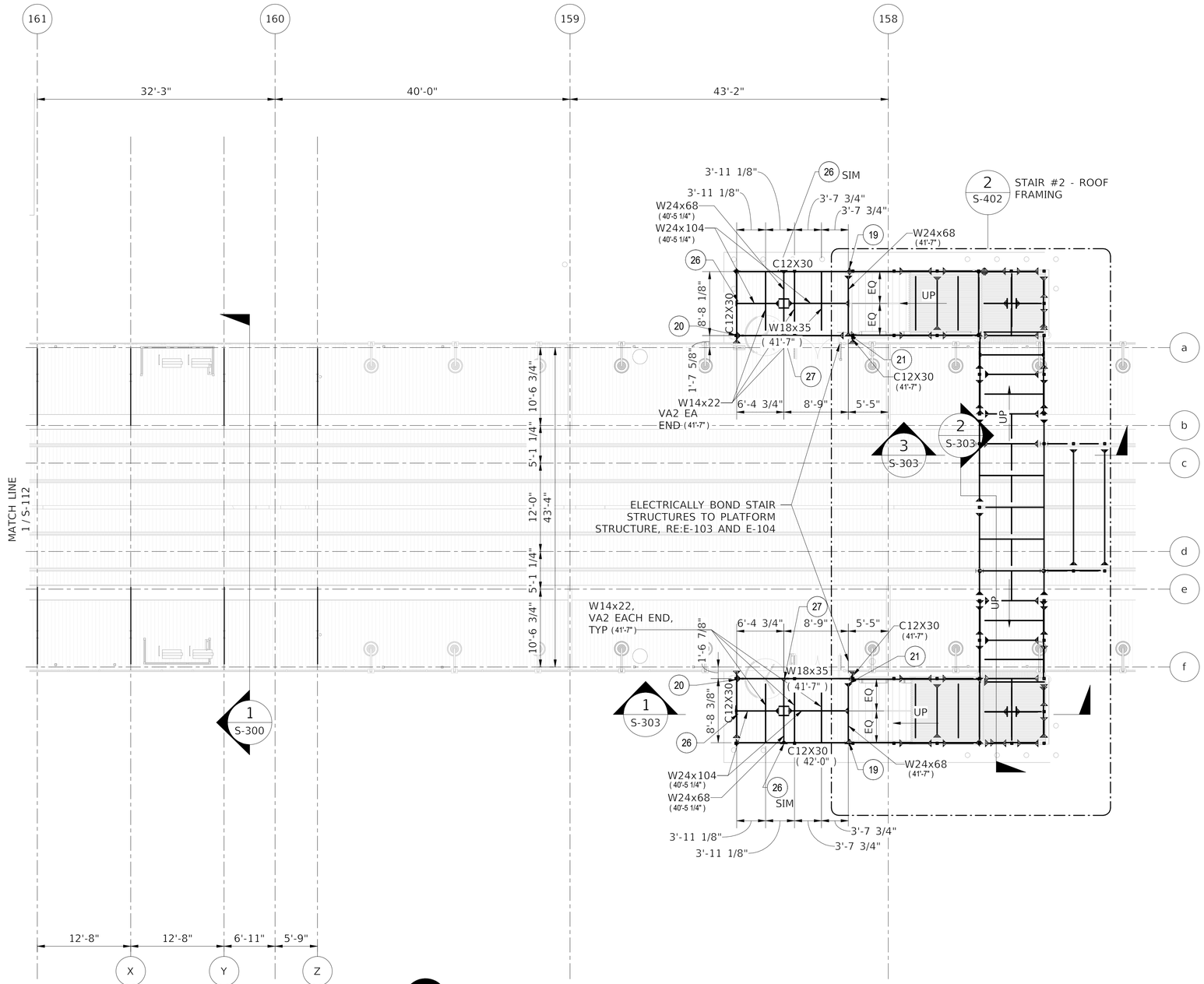
PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	C. MIDKIFF
CHECKED BY	N. HUNT
DESIGNED BY	C. MIDKIFF
DRAWN BY	C. BRYANT

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STRUCTURAL PLATFORM LEVEL PLAN - AREA B

LSCAL S-112

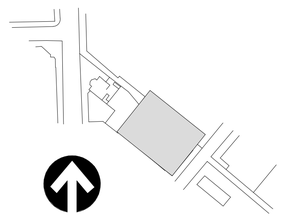
VOLUME: 1 OF 1



1 S-113 PLATFORM - AREA C
SCALE: 1/8" = 1'-0"

0 4' 8' 16'
SCALE: 1/8"=1'-0"

NORTH



NORTH

PLAN NOTES - PLATFORM LEVEL

NO.	DESCRIPTION
12	STAIR COLUMN, TYP. RE: ELEVATIONS FOR SIZE
13	RE: 3/S-529
19	RE: DETAIL 7/S-529
20	RE: DETAIL 11/S-528
21	RE: DETAIL 5/S-529
26	RE: DETAIL 1/S-529
27	RE: DETAIL 2/S-529
31	WIND SCREEN FRAMING, RE: 3/S-521

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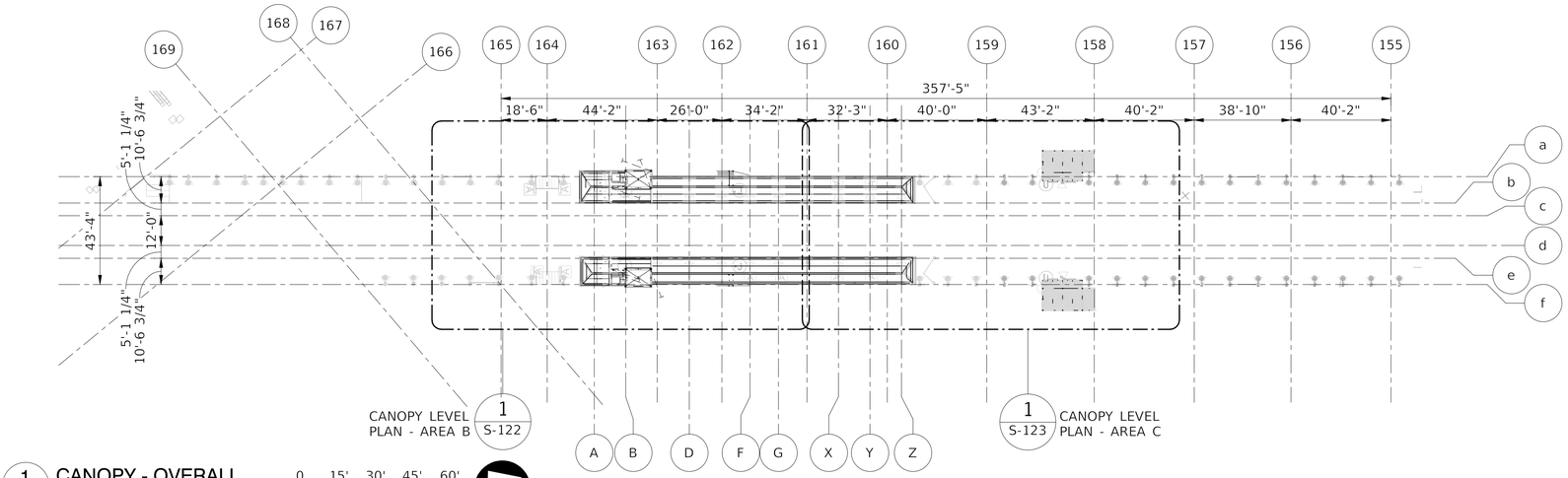
PROJECT NO	2015-0027.04
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STRUCTURAL PLATFORM LEVEL PLAN - AREA C

LSCAL S-113
VOLUME: 1 OF 1

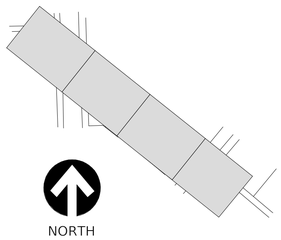
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1 S-120 **CANOPY - OVERALL**
SCALE: 1" = 30'-0"

0 15' 30' 45' 60'
SCALE: 1"=30'-0"

NORTH



SHEET NOTES - CANOPY LEVEL

(Notes are per level.)

1. REFERENCE SHEET S-001 AND S-002 FOR DRAWING KEYS, STRUCTURAL ABBREVIATIONS, AND OTHER GENERAL INFORMATION.
2. REFERENCE SHEET S-003 THROUGH S-008 FOR STRUCTURAL GENERAL NOTES AND INSPECTION TABLES.
3. REFERENCE S-500 AND S-501 SHEETS FOR CONCRETE AND FOUNDATION GENERAL DETAILS.
4. REFERENCE S-510 THROUGH S-513 SHEETS FOR MASONRY GENERAL DETAILS.
5. REFERENCE S-520 THROUGH S-524 SHEETS FOR STEEL, CONNECTIONS, AND BRACED FRAME GENERAL DETAILS.
6. REFERENCE S-3XX SHEETS FOR BUILDING AND STAIR SECTIONS.
7. REFERENCE S-4XX SHEETS FOR ENLARGED PLANS.
8. REFERENCE S-52X SHEETS FOR FRAMING DETAILS.
9. REFERENCE S-6XX SHEETS FOR SCHEDULES.
10. TOP OF STATION STRUCTURAL STEEL IS TYPICALLY 52'-6" CCD. REFERENCE PLAN AND ELEVATIONS WHERE FRAMING VARIES FROM THE TYPICAL ELEVATION.
11. FOR EDGE OF SLAB OR INTERIOR SLAB EDGE OPENING DIMENSIONS NOT SHOWN, REFERENCE ARCHITECTURAL SLAB PLANS.

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PROJECT NO	2015-0027.04
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CHECKED BY	N. HUNT
DESIGNED BY	C. MIDKIFF
DRAWN BY	C. BRYANT

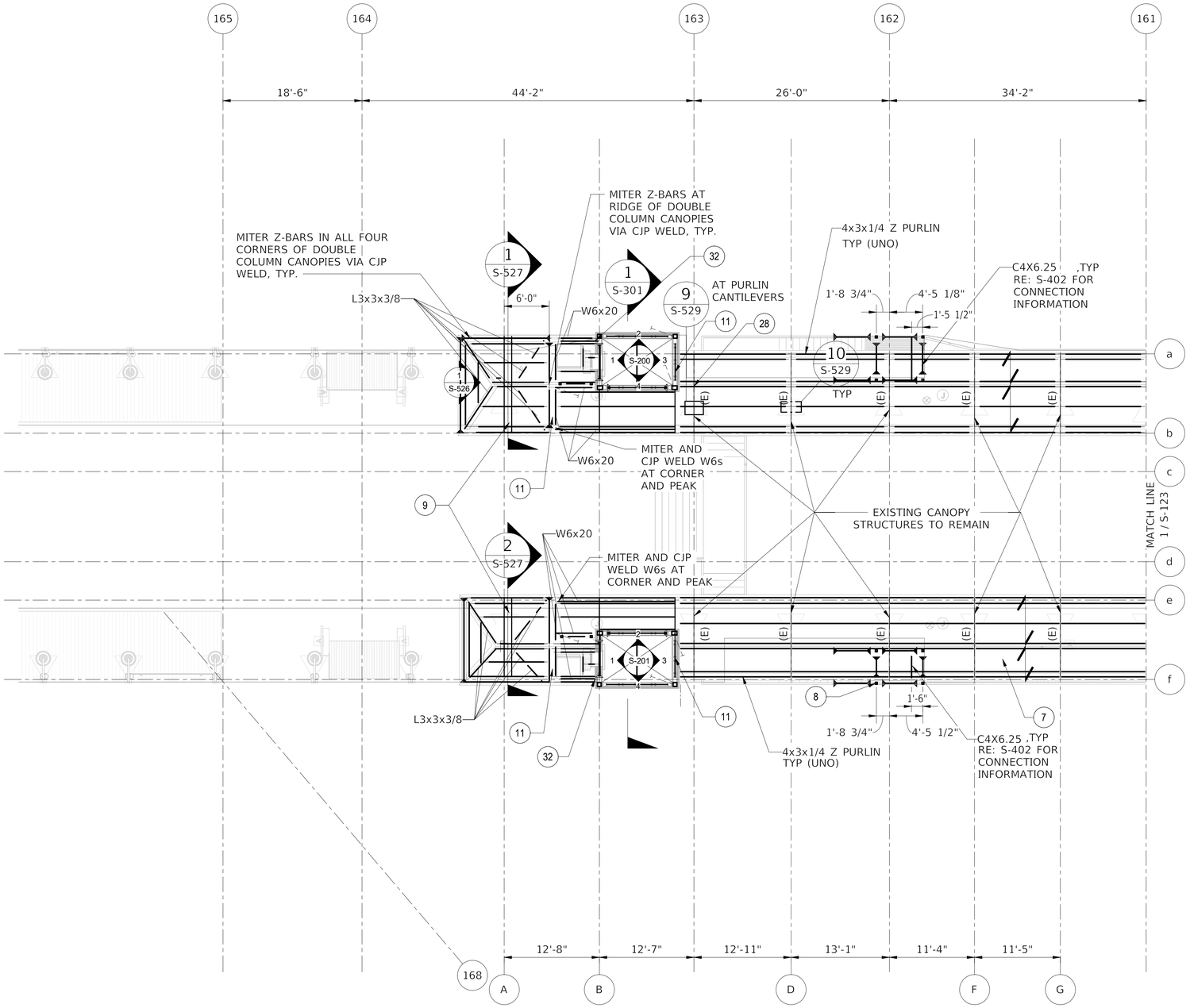
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STRUCTURAL CANOPY LEVEL PLAN - OVERALL

LSCAL | S-120

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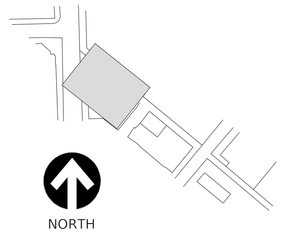


1 S-122 CANOPY - AREA B
SCALE: 1/8" = 1'-0"

0 4' 8' 16'
SCALE: 1/8"=1'-0"

NORTH

NOTE:
SEE 1/S-300 FOR TYPICAL CANOPY LAYOUT.



NORTH

PLAN NOTES - CANOPY LEVEL

NO.	DESCRIPTION
7	1" "C" TYPE ROOF DECK, TYP.
8	STAIR POST, TYP, RE: SECTION.
9	NEW DOUBLE COLUMN CANOPY STRUCTURES, RE: S-526.
10	NEW CANOPY STRUCTURE, RE: S-525.
11	EXPANSION JOINT, RE: ARCH.
28	FALL PROTECTION TIE-OFF AT CANOPY COLUMN PEAK, TYP ENTIRE CANOPY, RE: ARCH
32	CANOPY W6 TO HSS6X6, RE: 1/S-522.

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IN CHARGE	I. COLLETTI
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CHECKED BY	N. HUNT
DESIGNED BY	C. MIDKIFF
DRAWN BY	C. BRYANT

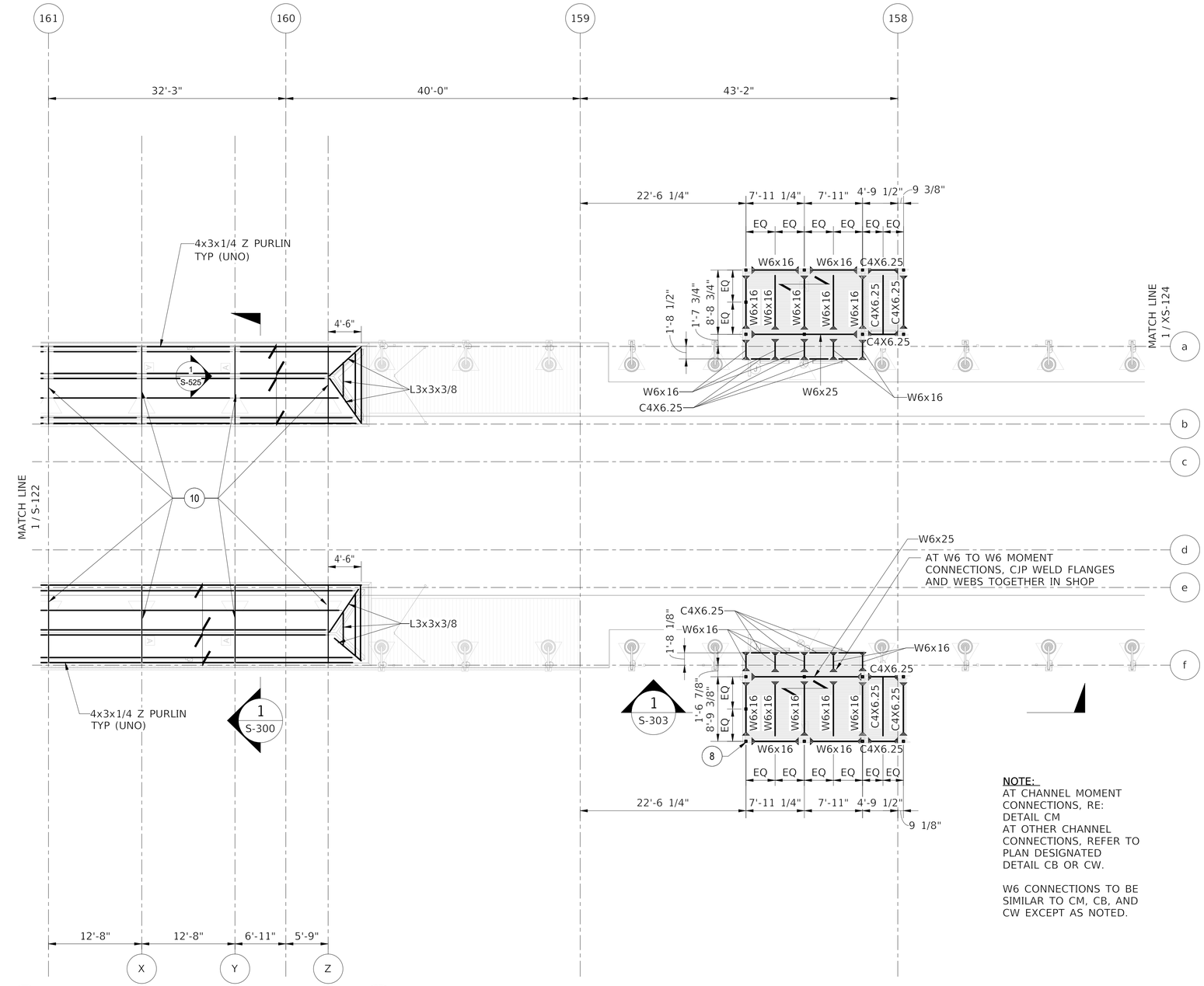
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STRUCTURAL CANOPY LEVEL PLAN - AREA B

LSCAL S-122

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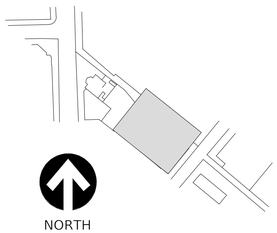


1 S-123 CANOPY - AREA C
SCALE: 1/8" = 1'-0"

0 4' 8' 16'
SCALE: 1/8"=1'-0"

NOTE:
AT CHANNEL MOMENT CONNECTIONS, RE: DETAIL CM
AT OTHER CHANNEL CONNECTIONS, REFER TO PLAN DESIGNATED DETAIL CB OR CW.

W6 CONNECTIONS TO BE SIMILAR TO CM, CB, AND CW EXCEPT AS NOTED.



PLAN NOTES - CANOPY LEVEL

NO.	DESCRIPTION
7	1" "C" TYPE ROOF DECK, TYP.
8	STAIR POST, TYP, RE: SECTION.
9	NEW DOUBLE COLUMN CANOPY STRUCTURES, RE: S-526.
10	NEW CANOPY STRUCTURE, RE: S-525.
11	EXPANSION JOINT, RE: ARCH.
28	FALL PROTECTION TIE-OFF AT CANOPY COLUMN PEAK, TYP ENTIRE CANOPY, RE: ARCH
32	CANOPY W6 TO HSS6X6, RE: 1/S-522.

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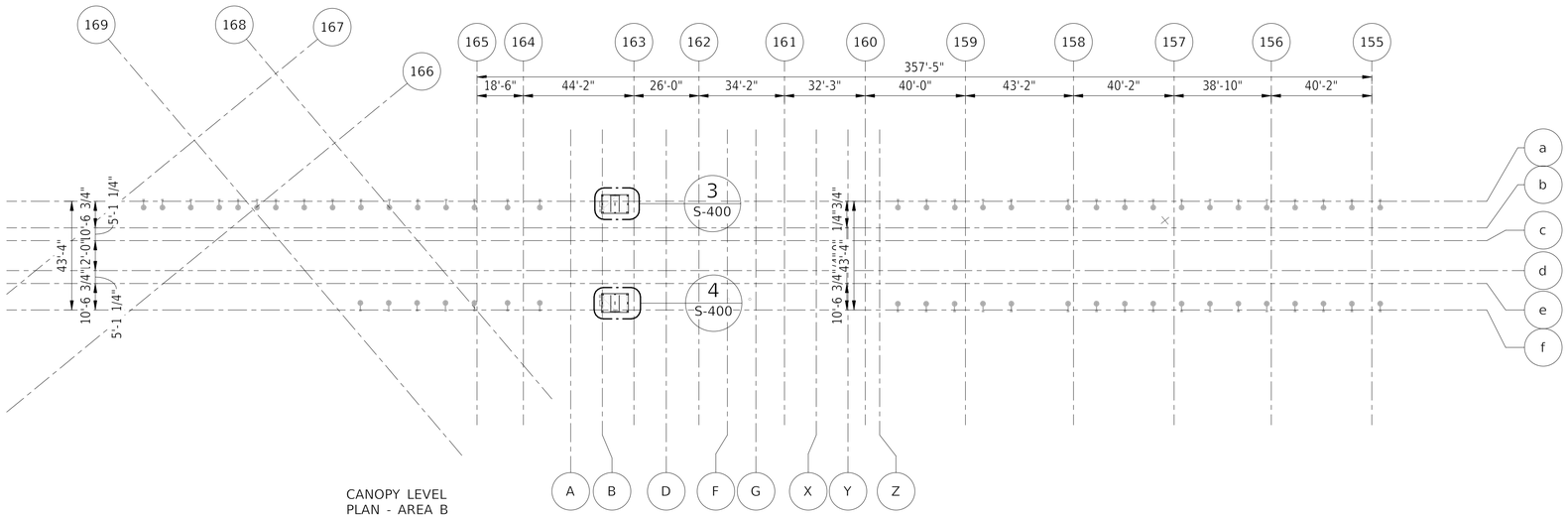
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DESIGNED BY	C. MIDKIFF
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STRUCTURAL CANOPY LEVEL PLAN - AREA C

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VOLUME: 1 OF 1

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CANOPY LEVEL
PLAN - AREA B

1 / S-130 T/ELEVATOR SHAFT - OVERALL
SCALE: 1" = 30'-0"

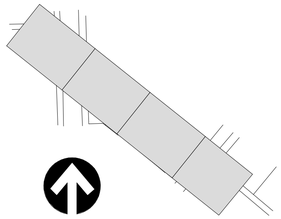
0 15' 30' 45' 60'
SCALE: 1"=30'-0"

NORTH

SHEET NOTES - ELEV ROOF LVL

(Notes are per level.)

1. REFERENCE SHEET S-001 AND S-002 FOR DRAWING KEYS, STRUCTURAL ABBREVIATIONS, AND OTHER GENERAL INFORMATION.
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3. REFERENCE S-500 AND S-501 SHEETS FOR CONCRETE AND FOUNDATION GENERAL DETAILS.
4. REFERENCE S-510 THROUGH S-513 SHEETS FOR MASONRY GENERAL DETAILS.
5. REFERENCE S-520 THROUGH S-524 SHEETS FOR STEEL, CONNECTION, AND BRACED FRAME GENERAL DETAILS.
6. REFERENCE S-3XX SHEETS FOR BUILDING AND STAIR SECTIONS.
7. REFERENCE S-4XX SHEETS FOR ENLARGED PLANS.
8. REFERENCE S-52X SHEETS FOR FRAMING DETAILS.
9. REFERENCE S-6XX SHEETS FOR SCHEDULES.
10. TOP OF STATION STRUCTURAL STEEL IS TYPICALLY 59'-11 1/4" CCD. REFERENCE PLAN AND ELEVATIONS WHERE FRAMING VARIES FROM THE TYPICAL ELEVATION.



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APPROVED BY	C. MIDKIFF
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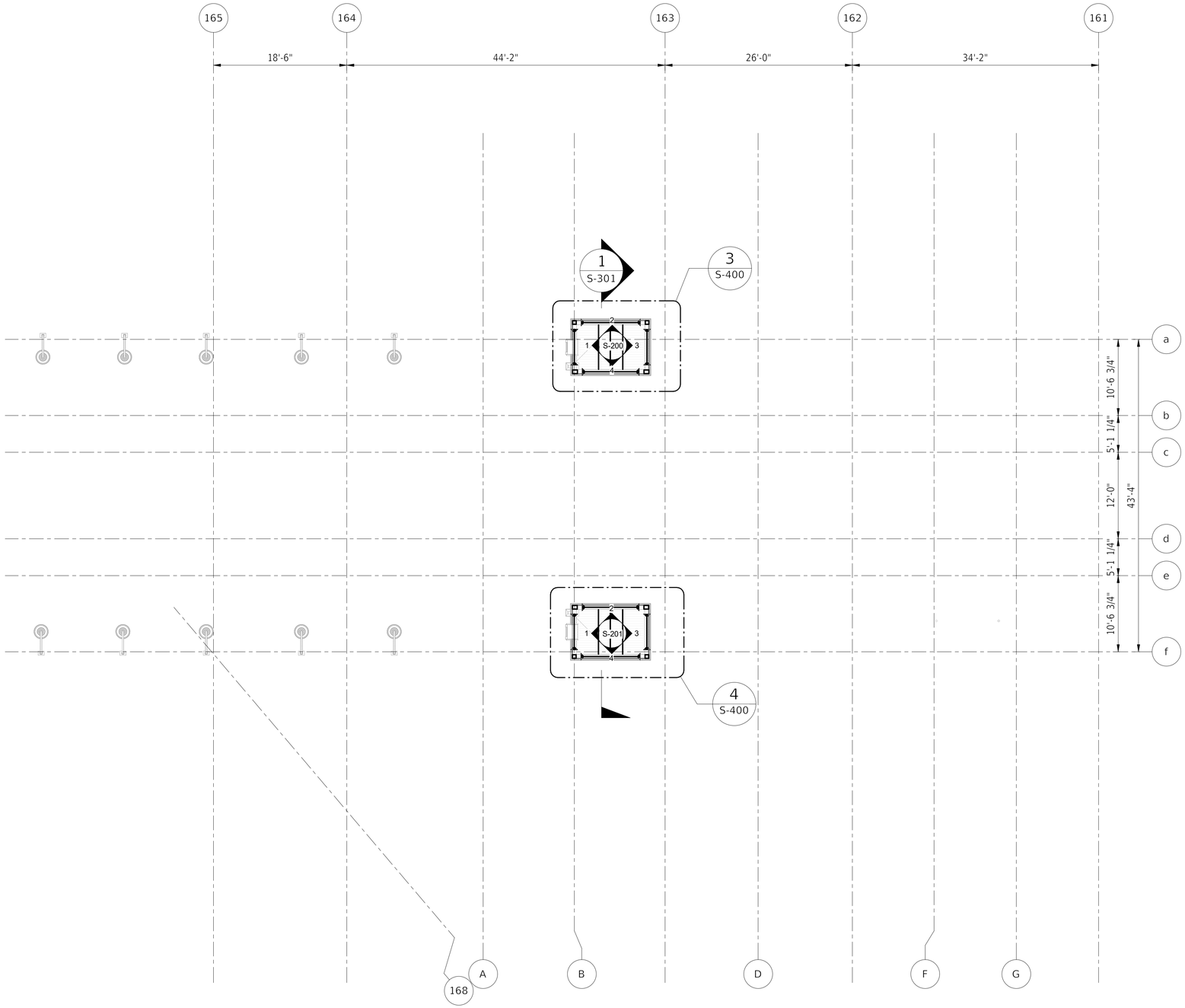
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STRUCTURAL ELEVATOR ROOF LEVEL PLAN - OVERALL

LSCAL S-130

VOLUME: 1 OF 1

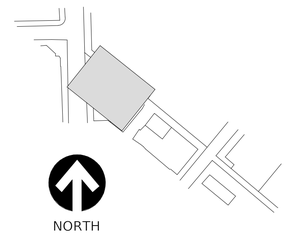
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1 S-132 T/ELEVATOR SHAFT - AREA B
SCALE: 1/8" = 1'-0"

0 4' 8' 16'
SCALE: 1/8"=1'-0"

NORTH



NORTH

PLAN NOTES - ELEV ROOF LEVEL

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STRUCTURAL ELEVATOR ROOF LEVEL PLAN - AREA B

LSCAL S-132

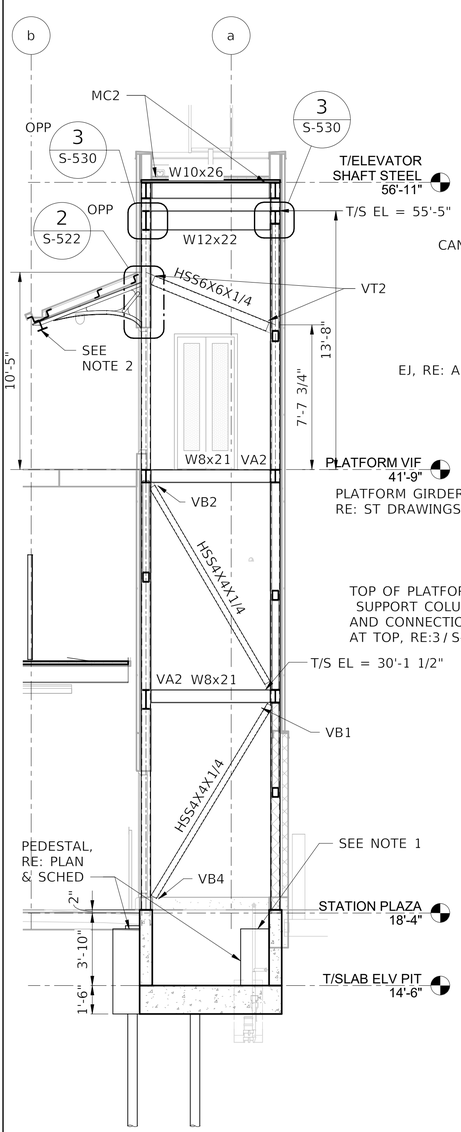
VOLUME: 1 OF 1

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NOTE:
1. FOR ELEVATOR POSTS/PEDESTALS, TOP OF PEDESTAL TO BE 1'-0" BELOW TOP OF ELEVATOR PIT. AFTER SETTING COLUMNS POUR TOP 1'-0" UP TO GRADE (SLOPE TOP AS NEEDED PER CIVIL GRADING DRAWINGS).

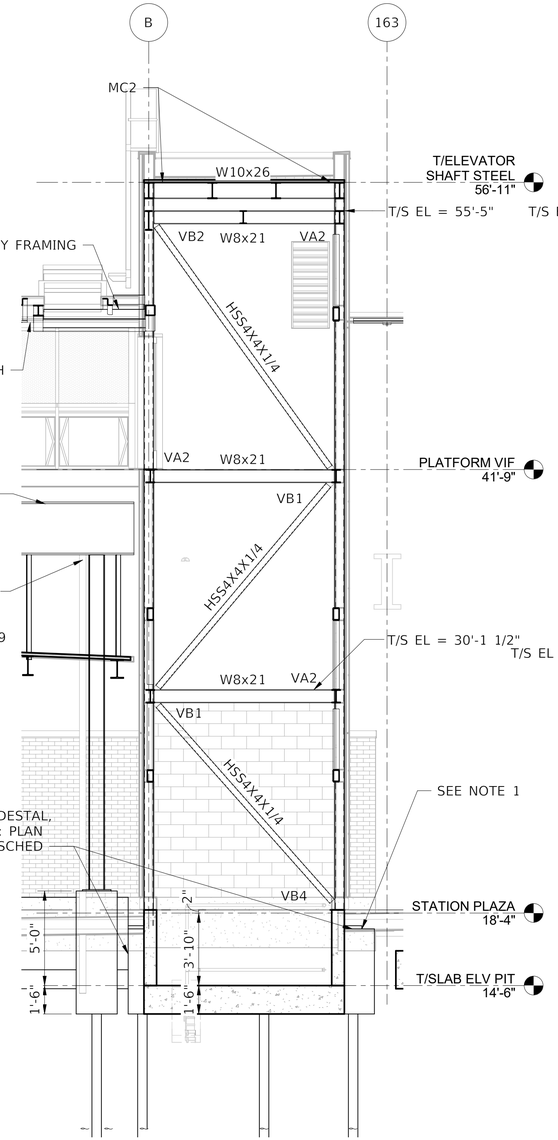
2. COPE WEB AND BOTTOM FLANGE OF W6 AT CANOPY SECTION, WELD TOP FLANGE AND REMAINING WEB TO CANOPY WITH 3/16" FILLET WELDS.

3. FOR VERTICAL BRACE CONNECTIONS "VB#", RE: 1/S-524.



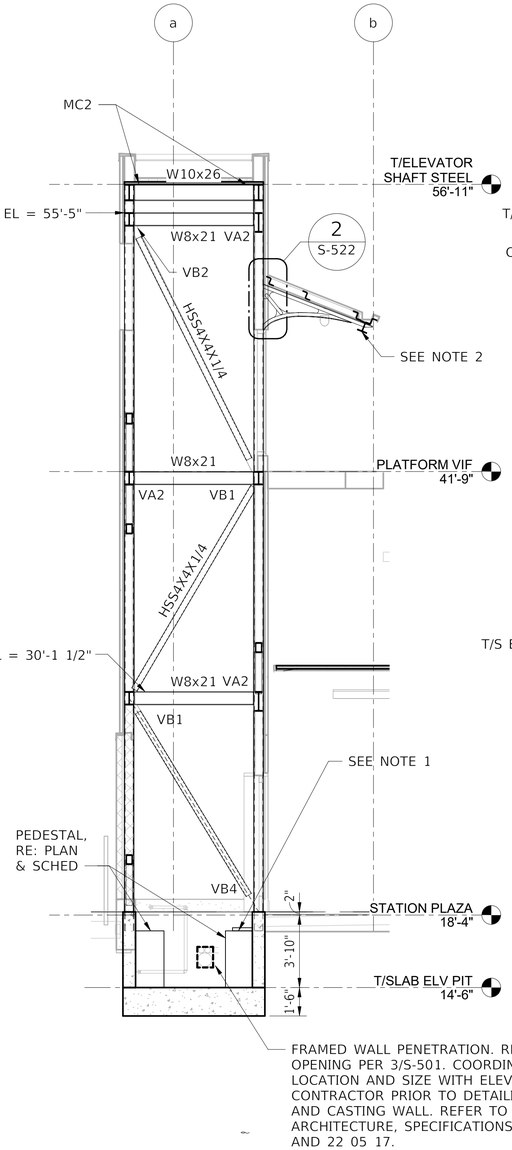
1 S-200 ELEV 01 OUTBOUND - NORTH
SCALE: 1/4" = 1'-0"

0 4' 8'
SCALE: 1/4"=1'-0"



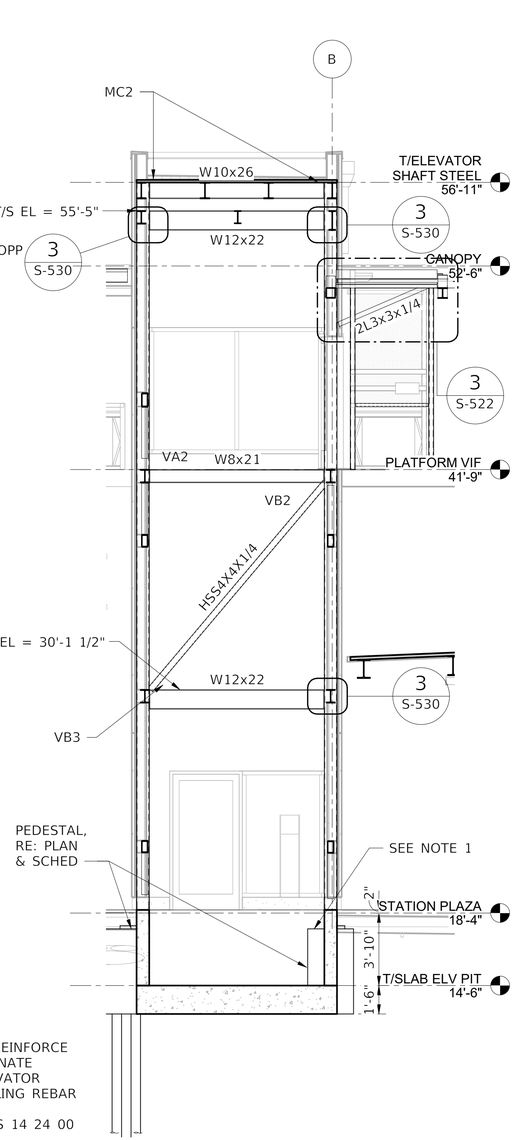
2 S-200 ELEV 01 OUTBOUND - EAST
SCALE: 1/4" = 1'-0"

0 4' 8'
SCALE: 1/4"=1'-0"



3 S-200 ELEV 01 OUTBOUND - SOUTH
SCALE: 1/4" = 1'-0"

0 4' 8'
SCALE: 1/4"=1'-0"



4 S-200 ELEV 01 OUTBOUND - WEST
SCALE: 1/4" = 1'-0"

0 4' 8'
SCALE: 1/4"=1'-0"

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2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	C. MIDKIFF
CHECKED BY	N. HUNT
DESIGNED BY	S. SIKKILA
DRAWN BY	C. BRYANT

MARK	DATE	DESCRIPTION
0	12/30/2024	ISSUED FOR BID

ELEVATOR ELEVATIONS

LSCAL | S-200

VOLUME: 1 OF 1

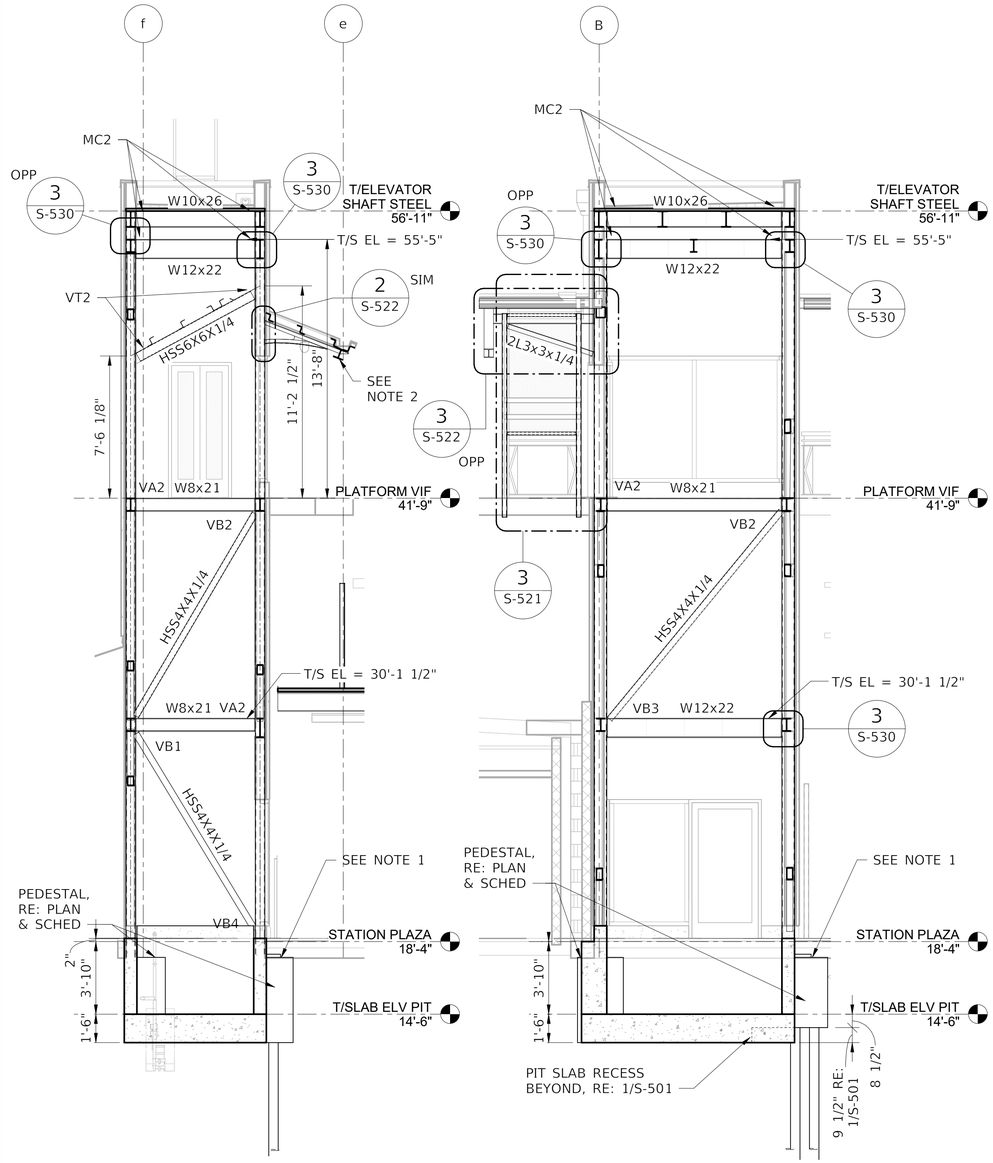
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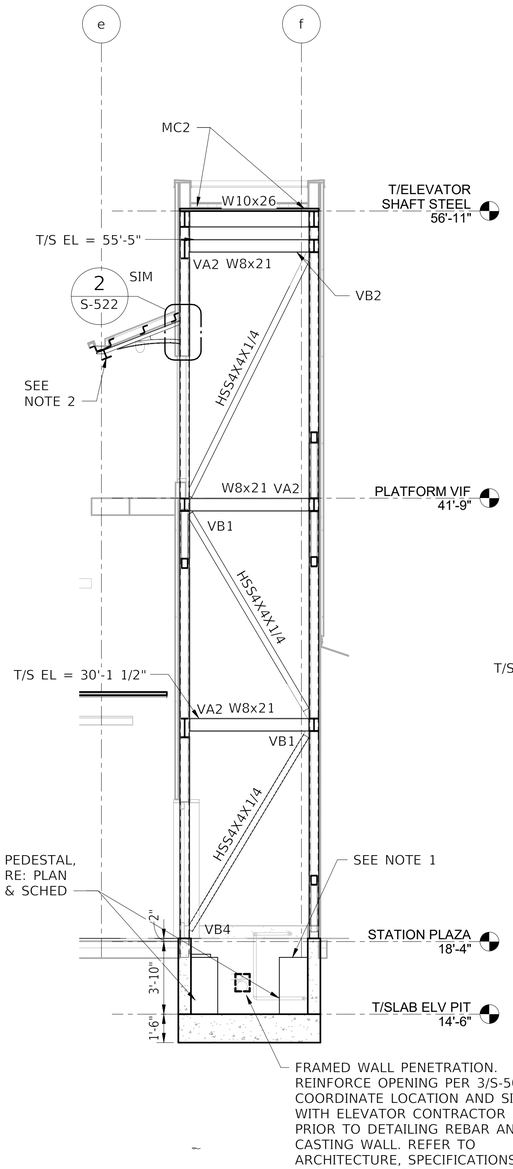
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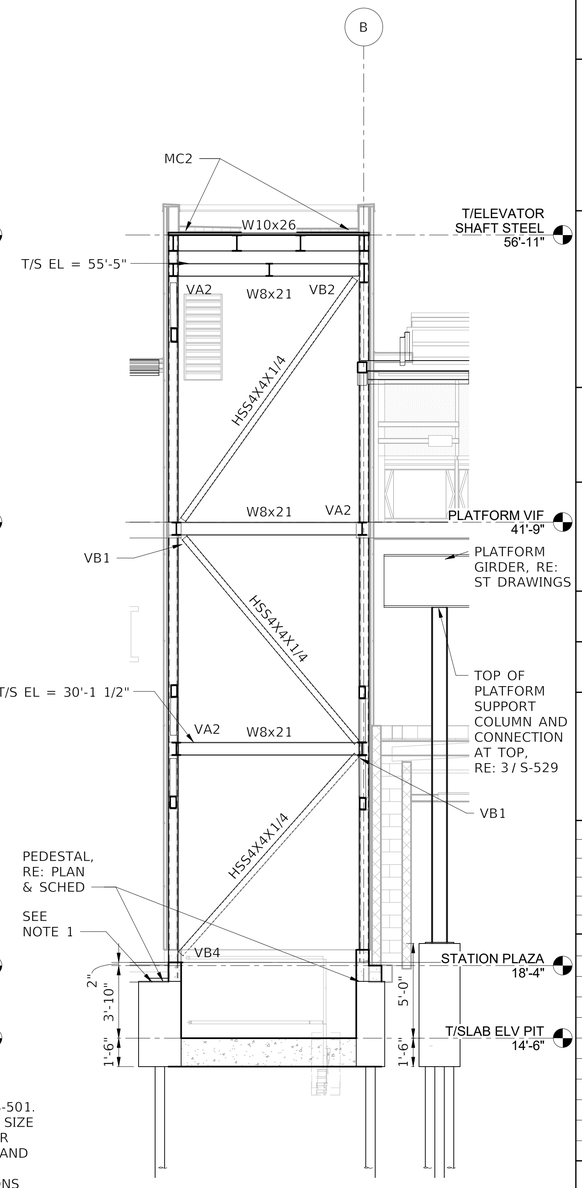
NOTE:
1. FOR ELEVATOR POSTS/PEDESTALS, TOP OF PEDESTAL TO BE 1'-0" BELOW TOP OF ELEVATOR PIT. AFTER SETTING COLUMNS POUR TOP 1'-0" UP TO GRADE (SLOPE TOP AS NEEDED PER CIVIL GRADING DRAWINGS).

2. COPE WEB AND BOTTOM FLANGE OF W6 AT CANOPY SECTION, WELD TOP FLANGE AND REMAINING WEB TO CANOPY WITH 3/16" FILLET WELDS.

3. FOR VERTICAL BRACE CONNECTIONS "VB#", RE: 1/S-524.







1 S-201 ELEV 02 INBOUND - NORTH SCALE: 1/4" = 1'-0"
0 4' 8' SCALE: 1/4"=1'-0"

2 S-201 ELEV 02 INBOUND - EAST SCALE: 1/4" = 1'-0"
0 4' 8' SCALE: 1/4"=1'-0"

3 S-201 ELEV 02 INBOUND - SOUTH SCALE: 1/4" = 1'-0"
0 4' 8' SCALE: 1/4"=1'-0"

4 S-201 ELEV 02 INBOUND - WEST SCALE: 1/4" = 1'-0"
0 4' 8' SCALE: 1/4"=1'-0"

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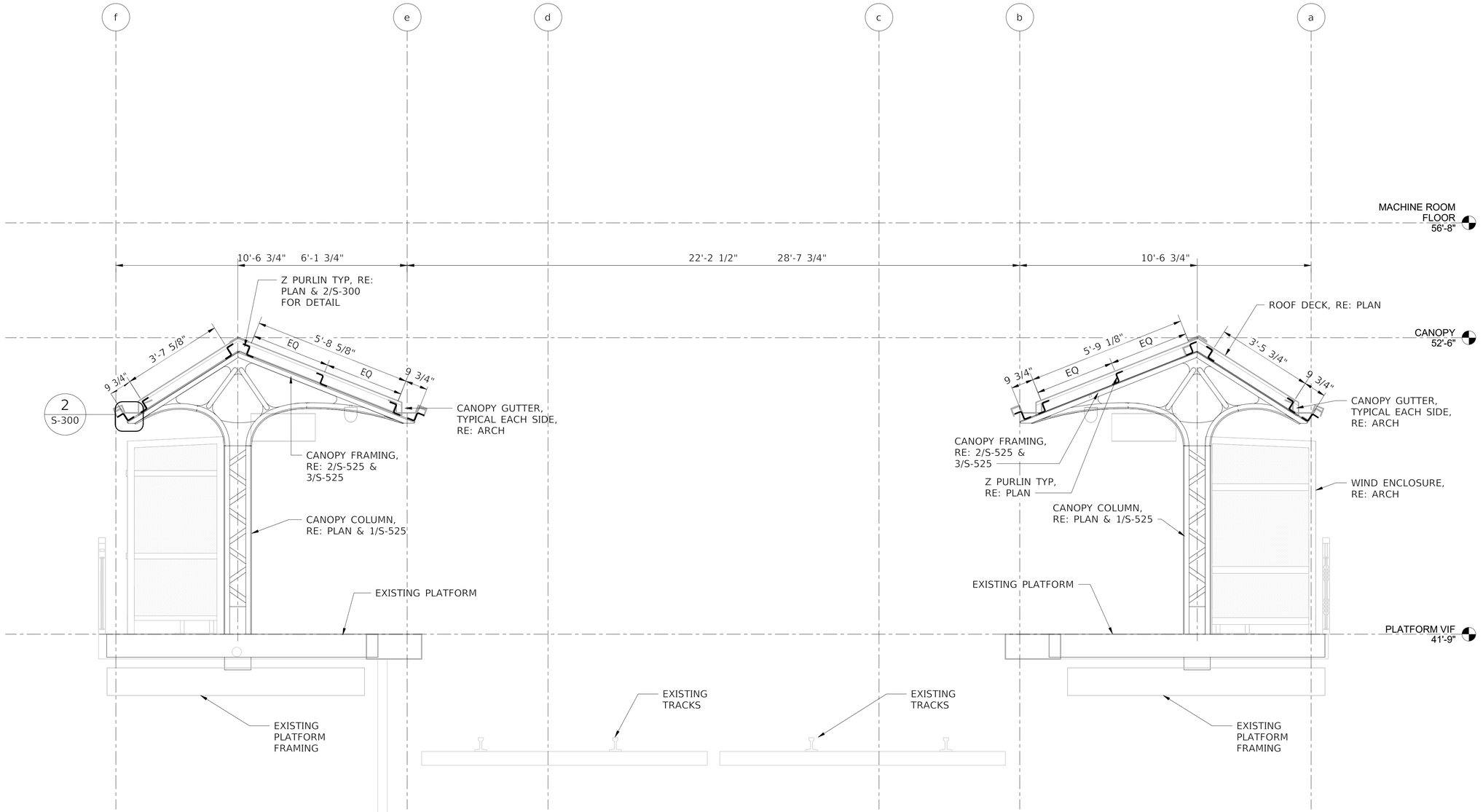
PROJECT NO	2015-0027.04
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APPROVED BY	C. MIDKIFF
CHECKED BY	N. HUNT
DESIGNED BY	S. SIKKILA
DRAWN BY	C. BRYANT

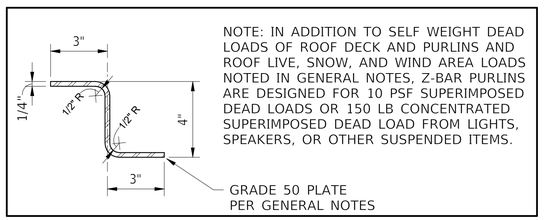
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ELEVATOR ELEVATIONS

LSCAL | S-201
VOLUME: 1 OF 1

12/10/2024 8:24:55 AM
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NOTE: IN ADDITION TO SELF WEIGHT DEAD LOADS OF ROOF DECK AND PURLINS AND ROOF LIVE, SNOW, AND WIND AREA LOADS NOTED IN GENERAL NOTES, Z-BAR PURLINS ARE DESIGNED FOR 10 PSF SUPERIMPOSED DEAD LOADS OR 150 LB CONCENTRATED SUPERIMPOSED DEAD LOAD FROM LIGHTS, SPEAKERS, OR OTHER SUSPENDED ITEMS.

2 / S-300 **Z PURLIN DETAIL**
SCALE: 3" = 1'-0"

1 / S-300 **SECTION AT NEW CANOPY**
SCALE: 1/2" = 1'-0"

0 1' 2' 4'
SCALE: 1/2"=1'-0"

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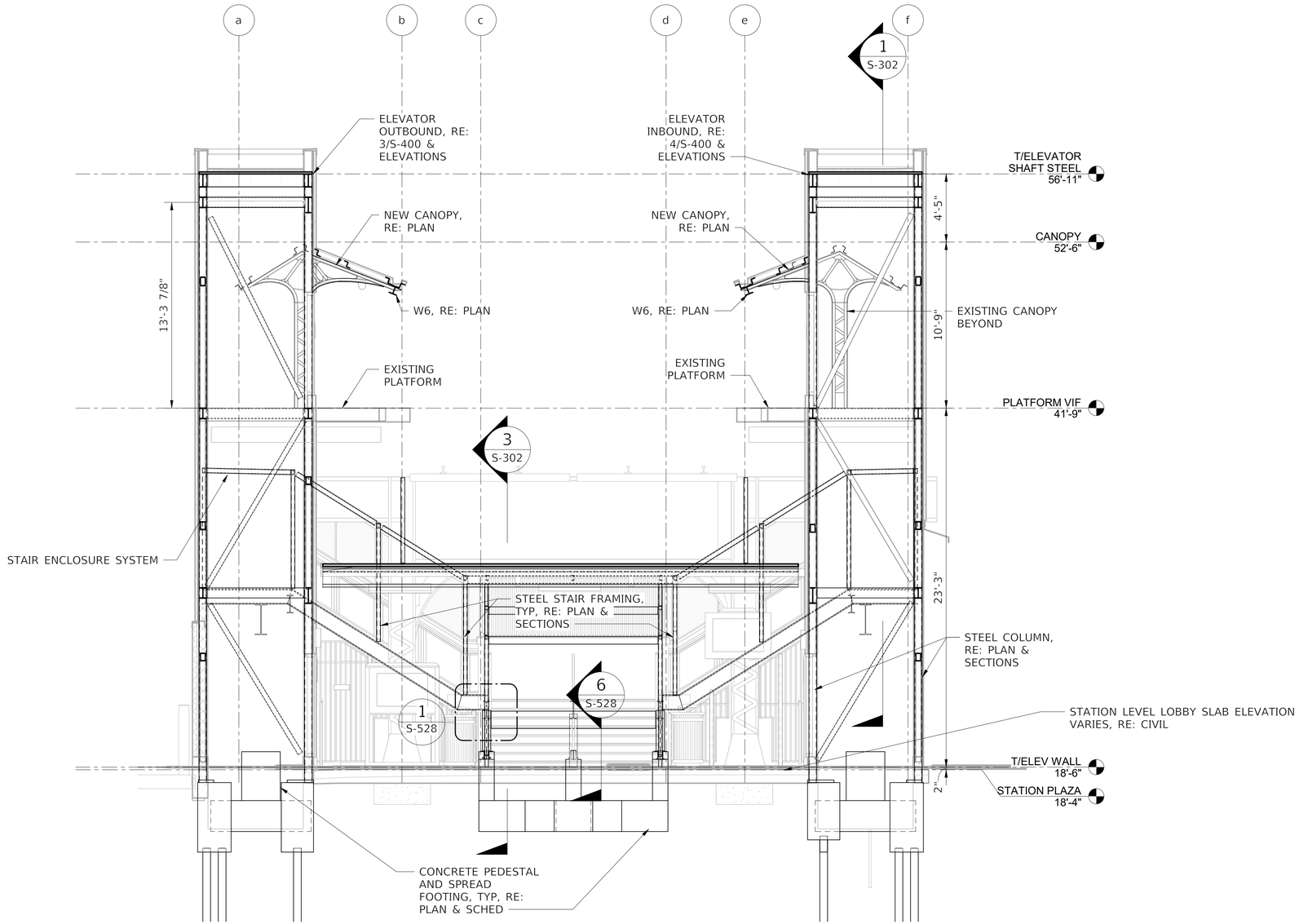
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APPROVED BY	C. MIDKIFF
CHECKED BY	N. HUNT
DESIGNED BY	C. MIDKIFF
DRAWN BY	C. BRYANT

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STRUCTURAL OVERALL CANOPY SECTION

LSCAL | S-300
VOLUME: 1 OF 1

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1 S-301 **BUILDING SECTION**
SCALE: 1/4" = 1'-0"

0 4' 8'
SCALE: 1/4"=1'-0"

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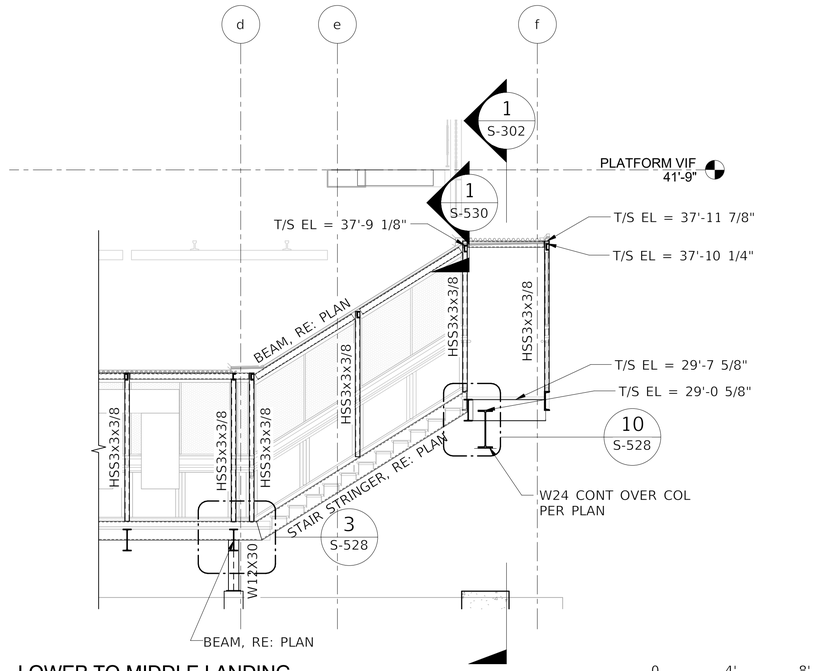
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0	12/30/2024	ISSUED FOR BID

OVERALL BUILDING SECTION

LSCAL | S-301

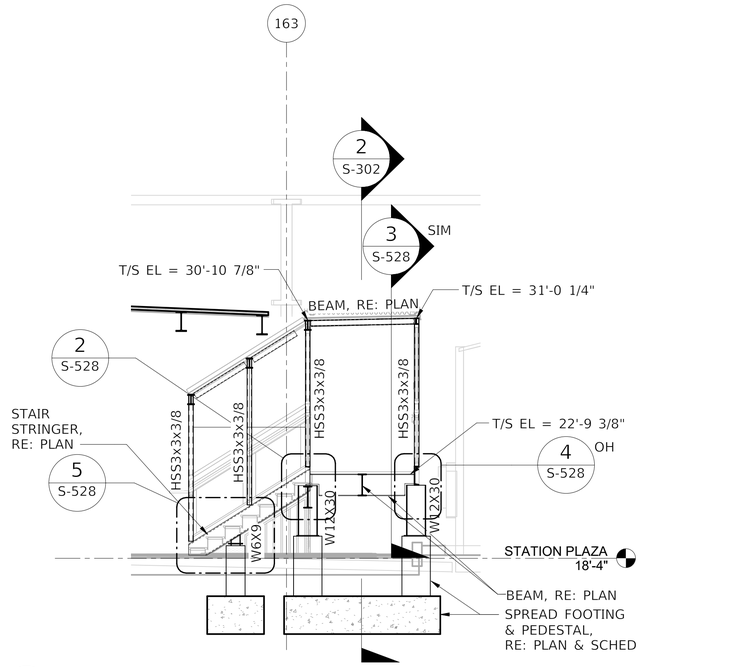
VOLUME: 1 OF 1

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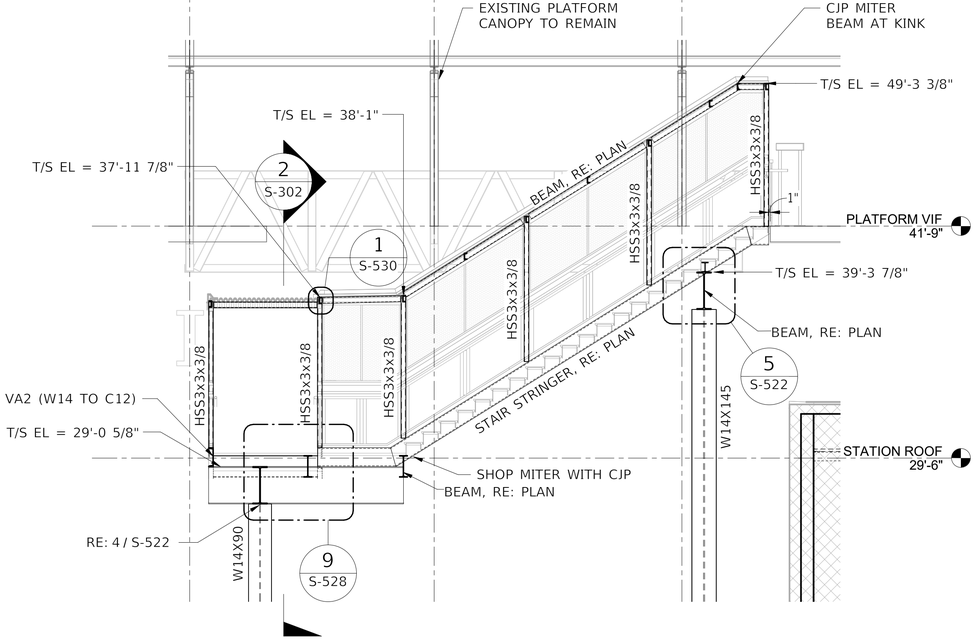
2 S-302 STAIR #1 - LOWER TO MIDDLE LANDING
SCALE: 1/4" = 1'-0"

0 4' 8'
SCALE: 1/4"=1'-0"



3 S-302 STAIR #1 - LOWER LANDING
SCALE: 1/4" = 1'-0"

0 4' 8'
SCALE: 1/4"=1'-0"



1 S-302 STAIR #1 - MIDDLE TO UPPER LANDING
SCALE: 1/4" = 1'-0"

0 4' 8'
SCALE: 1/4"=1'-0"

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CHICAGO, ILLINOIS 60647

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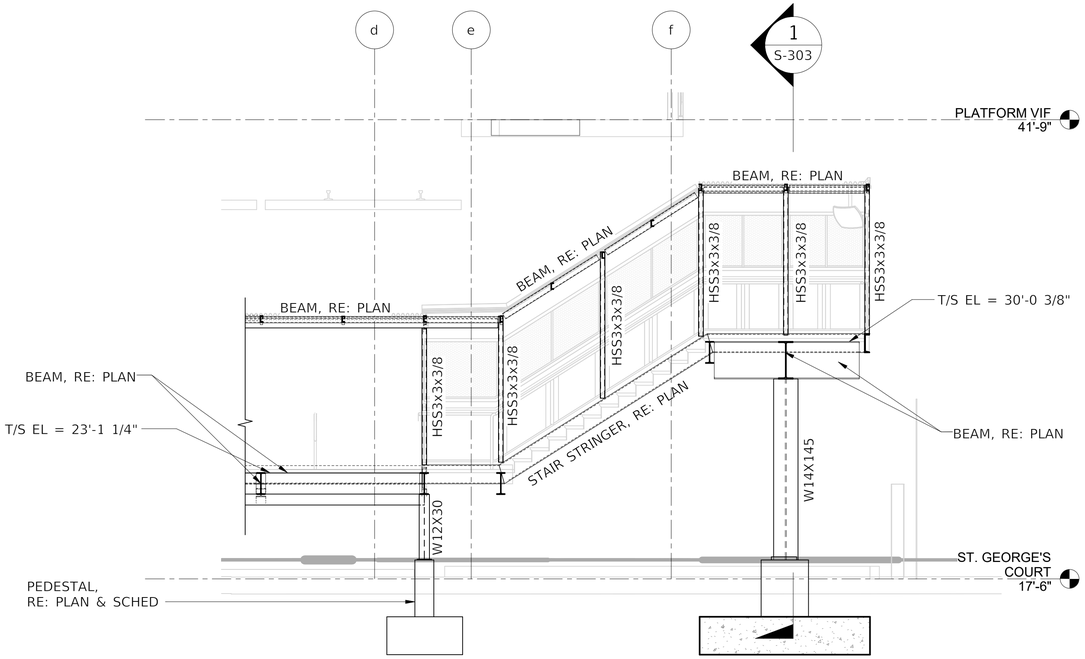
STAIR #1 SECTIONS

LSCAL | S-302

VOLUME: 1 OF 1

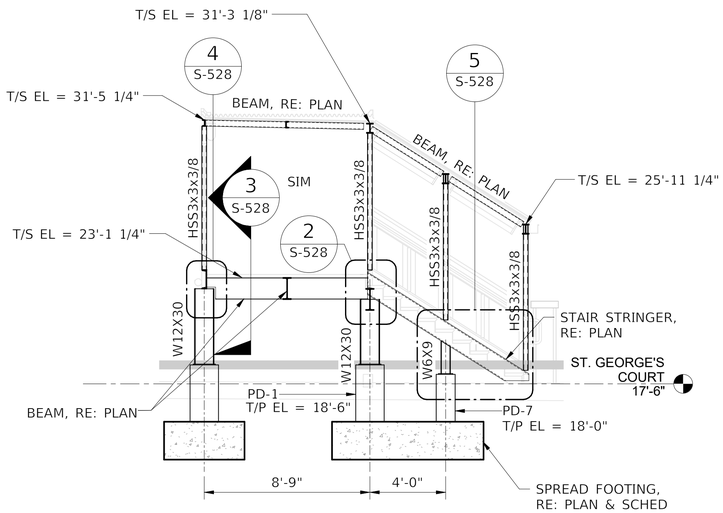
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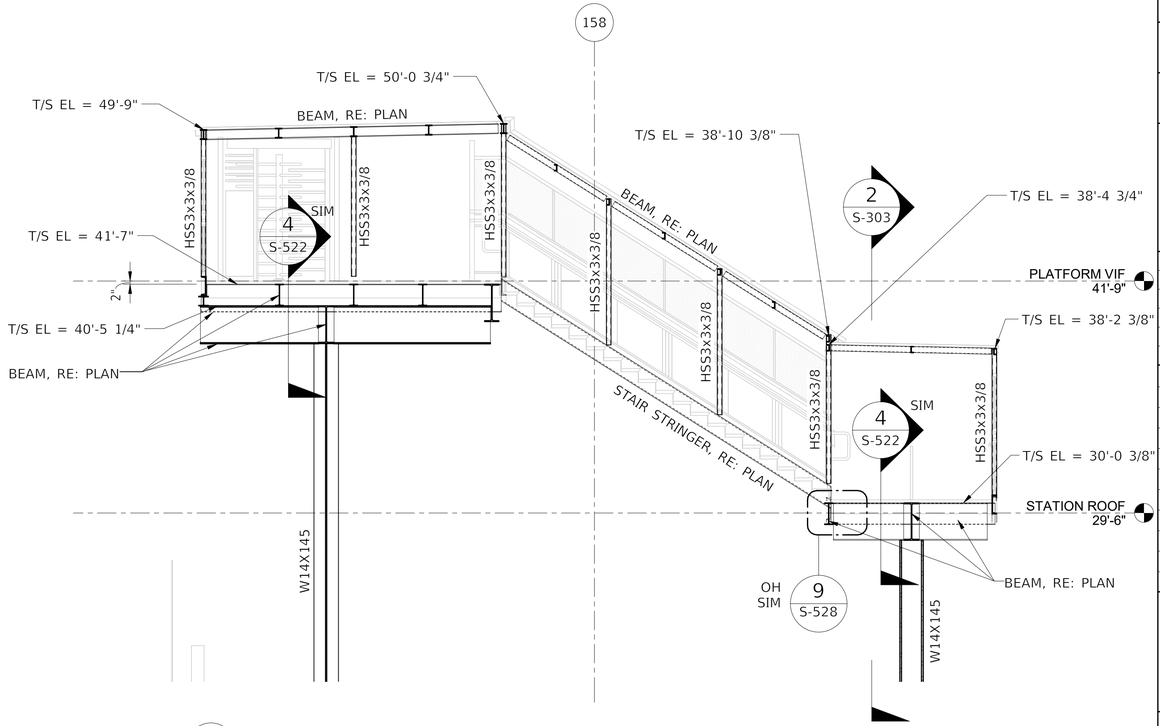
2 S-303 STAIR #2 - LOWER TO MIDDLE LANDING
SCALE: 1/4" = 1'-0"

0 4' 8'
SCALE: 1/4"=1'-0"



3 S-303 STAIR #2 - LOWER LANDING
SCALE: 1/4" = 1'-0"

0 4' 8'
SCALE: 1/4"=1'-0"



1 S-303 STAIR #2 - MIDDLE TO UPPER LANDING
SCALE: 1/4" = 1'-0"

0 4' 8'
SCALE: 1/4"=1'-0"

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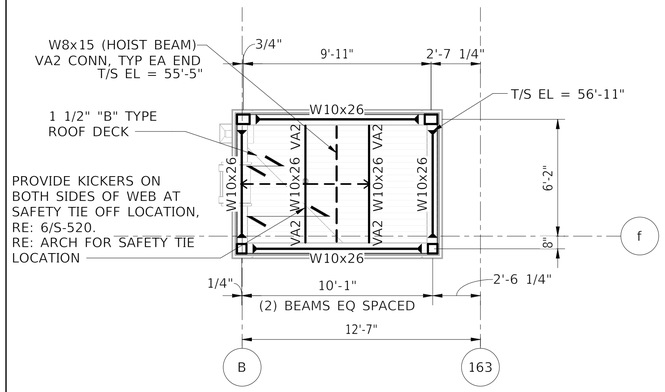
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STAIR #2 SECTIONS

LSCAL | S-303

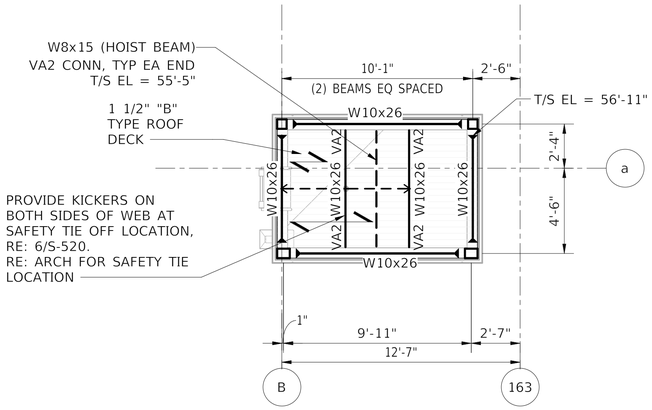
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4 S-400 ELEV 02 INBOUND - ENLARGED ROOF PLAN
SCALE: 1/4" = 1'-0"

NORTH

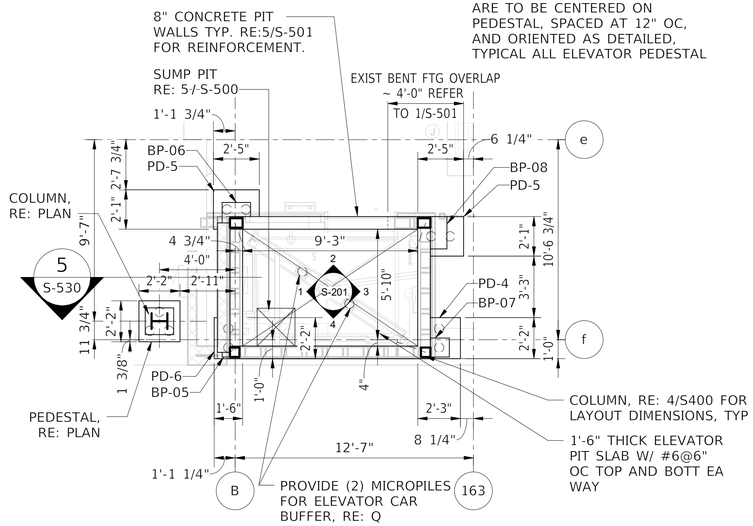


3 S-400 ELEV 01 OUTBOUND - ENLARGED ROOF PLAN
SCALE: 1/4" = 1'-0"

NORTH

NOTES:
1. RE: S-201 FOR TOP AND BOTTOM OF PEDESTAL DIMENSIONS

2. ELEVATOR PEDESTAL MICROPILES ARE TO BE CENTERED ON PEDESTAL, SPACED AT 12" OC, AND ORIENTED AS DETAILED, TYPICAL ALL ELEVATOR PEDESTAL

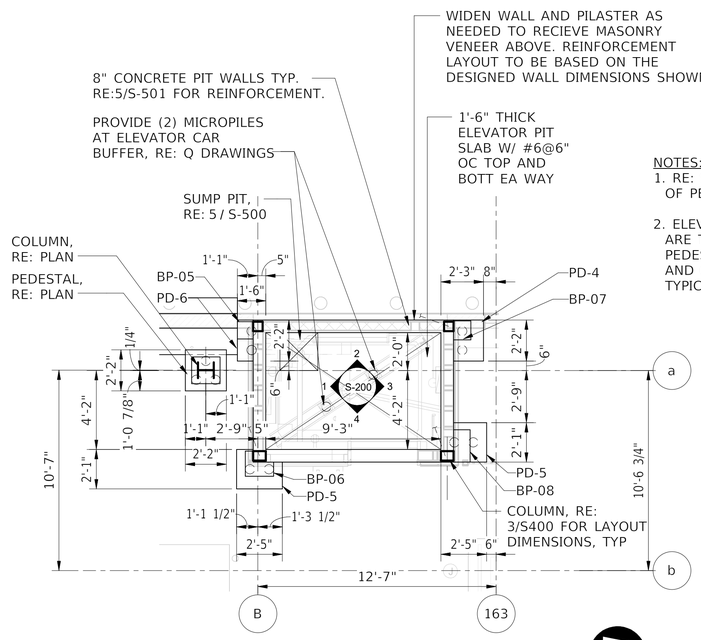


2 S-400 ELEV 02 INBOUND - ENLARGED ELEV PIT
SCALE: 1/4" = 1'-0"

NORTH

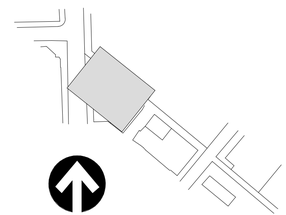
NOTES:
1. RE: S-200 FOR TOP AND BOTTOM OF PEDESTAL DIMENSIONS.

2. ELEVATOR PEDESTAL MICROPILES ARE TO BE CENTERED ON PEDESTAL, SPACED AT 12" OC, AND ORIENTED AS DETAILED, TYPICAL ALL ELEVATOR PEDESTAL



1 S-400 ELEV 01 OUTBOUND - ENLARGED ELEV PIT
SCALE: 1/4" = 1'-0"

NORTH



NORTH

0 4' 8'
SCALE: 1/4"=1'-0"

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STRUCTURAL ENLARGED ELEVATOR TOWER PLANS

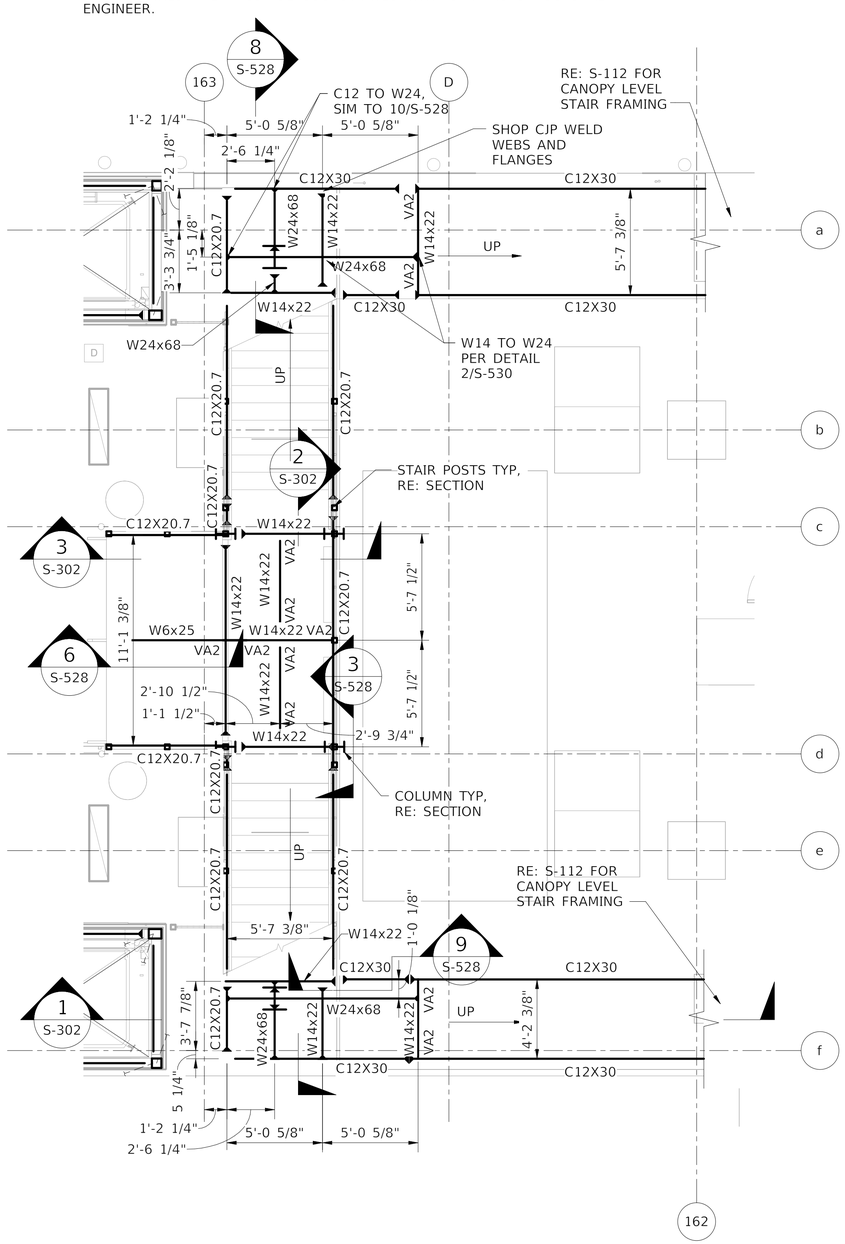
LSCAL | S-400

VOLUME: 1 OF 1

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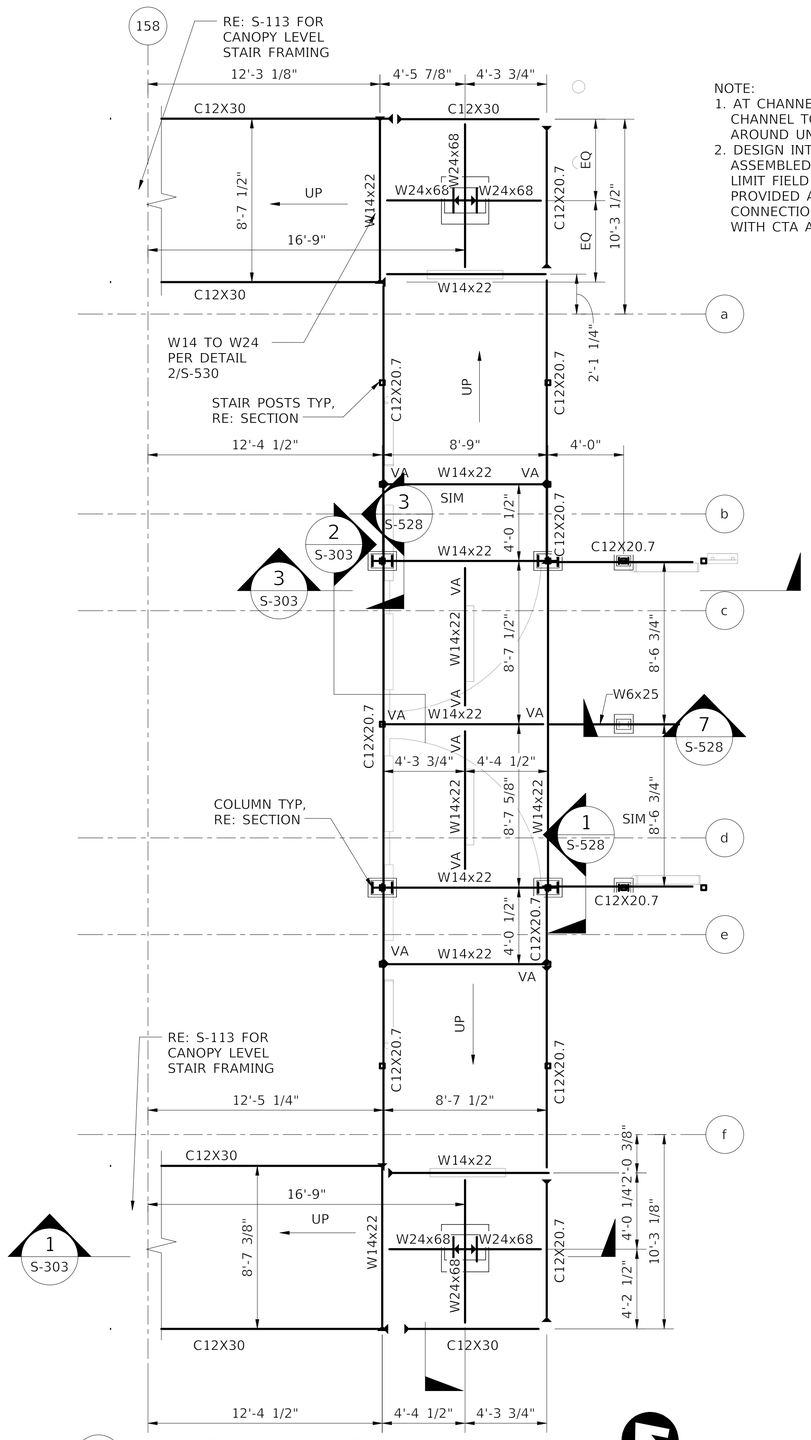
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NOTE:
1. AT CHANNEL STRINGER CORNERS AND BENDS, SECTIONS OF CHANNEL TO BE MITERED TOGETHER WITH CJP WELDS ALL-AROUND UNLESS NOTED OTHERWISE.
2. DESIGN INTENT IS TO HAVE PORTIONS OF STAIR SHOP ASSEMBLED TO GREATEST DEGREE POSSIBLE IN ORDER TO LIMIT FIELD WELDS. BOLTED CONNECTIONS HAVE BEEN PROVIDED AT ASSUMED FIELD JOINTS. IF ADDITIONAL FIELD CONNECTIONS ARE REQUIRED THEY MUST BE COORDINATED WITH CTA AND STRUCTURAL ENGINEER.



1 S-401 STAIR #1 - STAIR SUPPORT FRAMING
SCALE: 1/4" = 1'-0"

NORTH



2 S-401 STAIR #2 - STAIR SUPPORT FRAMING
SCALE: 1/4" = 1'-0"

NORTH

NOTE:
1. AT CHANNEL STRINGER CORNERS AND BENDS, SECTIONS OF CHANNEL TO BE MITERED TOGETHER WITH CJP WELDS ALL-AROUND UNLESS NOTED OTHERWISE.
2. DESIGN INTENT IS TO HAVE PORTIONS OF STAIR SHOP ASSEMBLED TO GREATEST DEGREE POSSIBLE IN ORDER TO LIMIT FIELD WELDS. BOLTED CONNECTIONS HAVE BEEN PROVIDED AT ASSUMED FIELD JOINTS. IF ADDITIONAL FIELD CONNECTIONS ARE REQUIRED THEY MUST BE COORDINATED WITH CTA AND STRUCTURAL ENGINEER.

0 4' 8'
SCALE: 1/4"=1'-0"

NORTH

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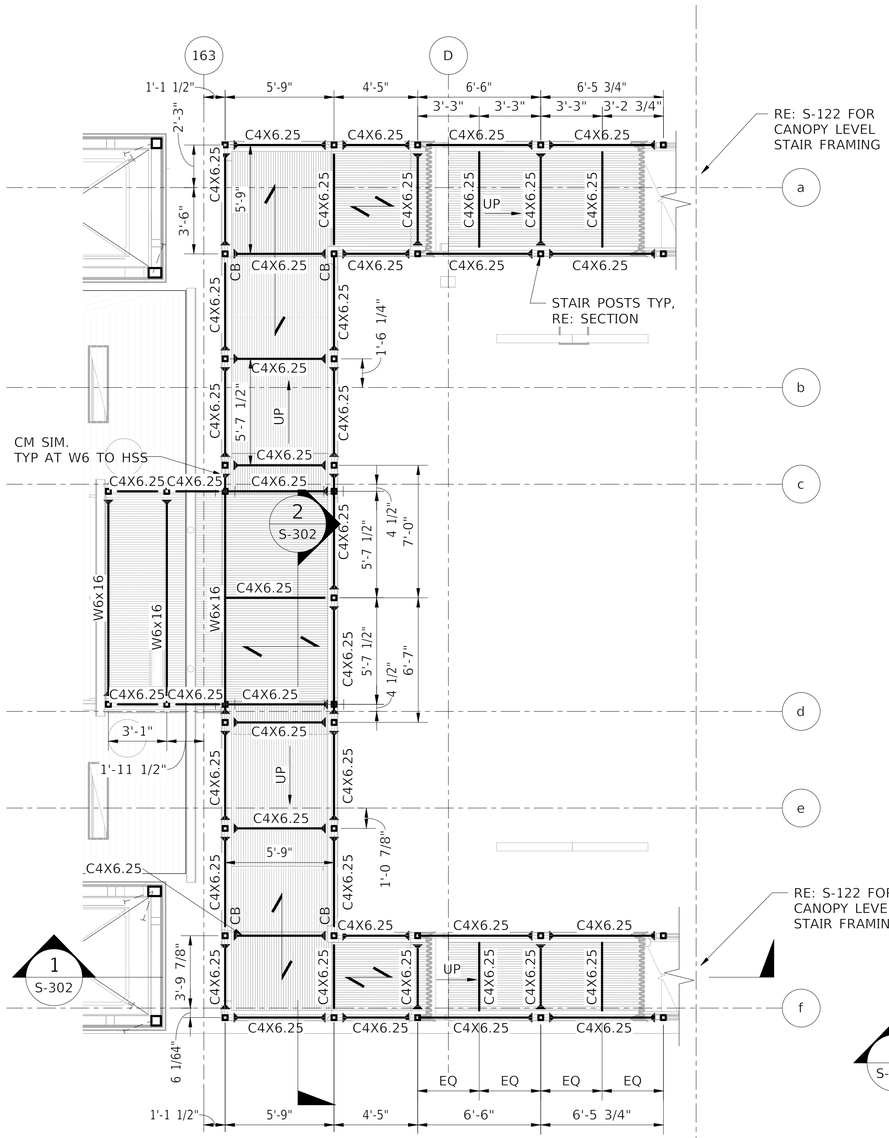
PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	C. MIDKIFF
CHECKED BY	N. HUNT
DESIGNED BY	C. MIDKIFF
DRAWN BY	C. BRYANT

MARK	DATE	DESCRIPTION
0	12/30/2024	ISSUED FOR BID

STRUCTURAL ENLARGED STAIR PLANS

LSCAL | S-401
VOLUME: 1 OF 1

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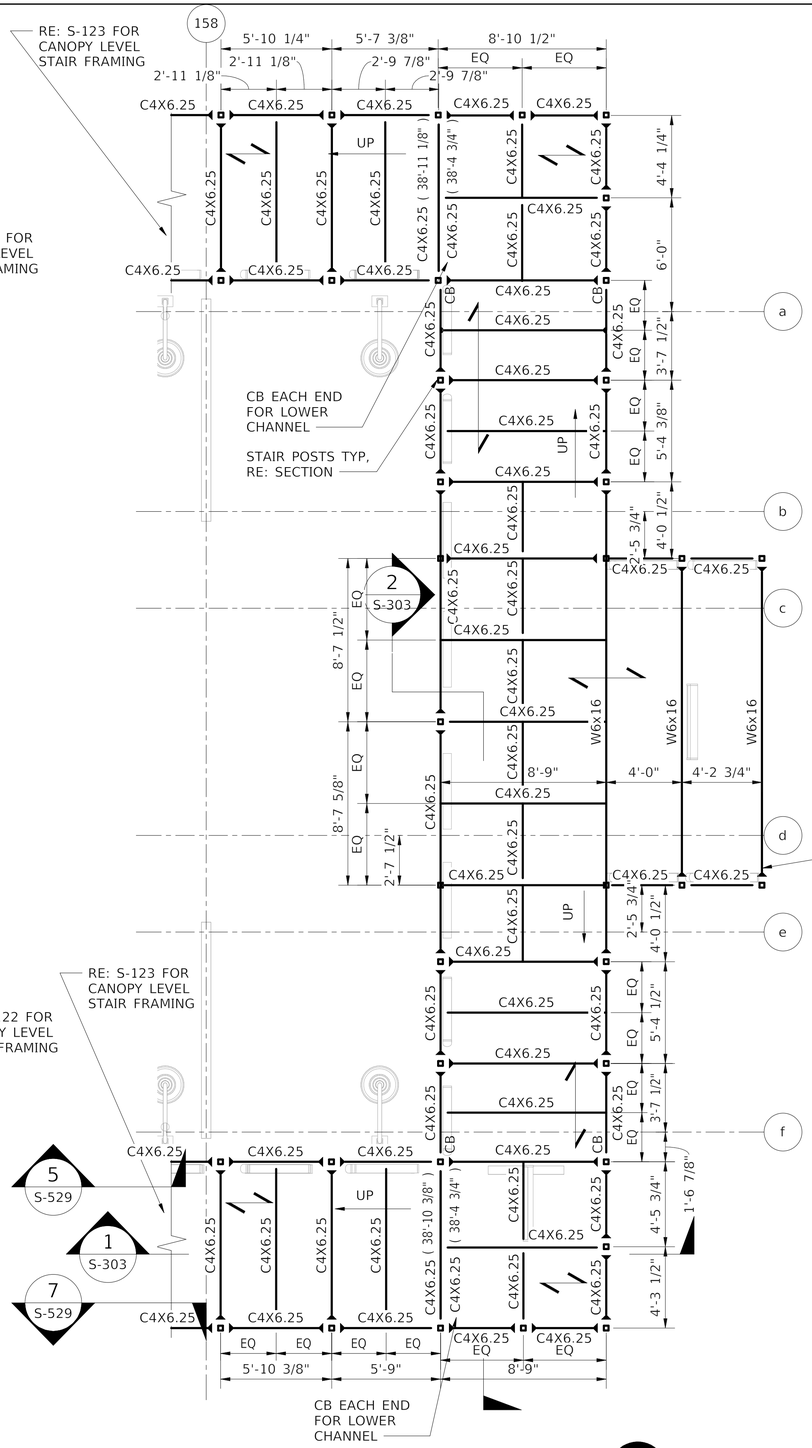


NOTE:
1. REFER TO DETAIL 2/S-521 FOR ALL CHANNEL CONNECTION DETAILS AT STAIR ROOFS; AT CHANNEL MOMENT CONNECTIONS, RE: DETAIL CM, AT OTHER CHANNEL CONNECTIONS, REFER TO PLAN DESIGNATED DETAIL CW EXCEPT WHERE NOTED AS CB.

2. DESIGN INTENT IS TO HAVE PORTIONS OF STAIR SHOP ASSEMBLED TO GREATEST DEGREE POSSIBLE IN ORDER TO LIMIT FIELD WELDS. BOLTED CONNECTIONS HAVE BEEN PROVIDED AT ASSUMED FIELD JOINTS. IF ADDITIONAL FIELD CONNECTIONS ARE REQUIRED THEY MUST BE COORDINATED WITH CTA AND STRUCTURAL ENGINEER.

1 S-402 STAIR #1 - STAIR ROOF FRAMING
SCALE: 1/4" = 1'-0"

NORTH



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2. DESIGN INTENT IS TO HAVE PORTIONS OF STAIR SHOP ASSEMBLED TO GREATEST DEGREE POSSIBLE IN ORDER TO LIMIT FIELD WELDS. BOLTED CONNECTIONS HAVE BEEN PROVIDED AT ASSUMED FIELD JOINTS. IF ADDITIONAL FIELD CONNECTIONS ARE REQUIRED THEY MUST BE COORDINATED WITH CTA AND STRUCTURAL ENGINEER.

2 S-402 STAIR #2 - STAIR ROOF FRAMING
SCALE: 1/4" = 1'-0"

NORTH

0 4' 8'
SCALE: 1/4"=1'-0"

NORTH

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(312) 930-9119

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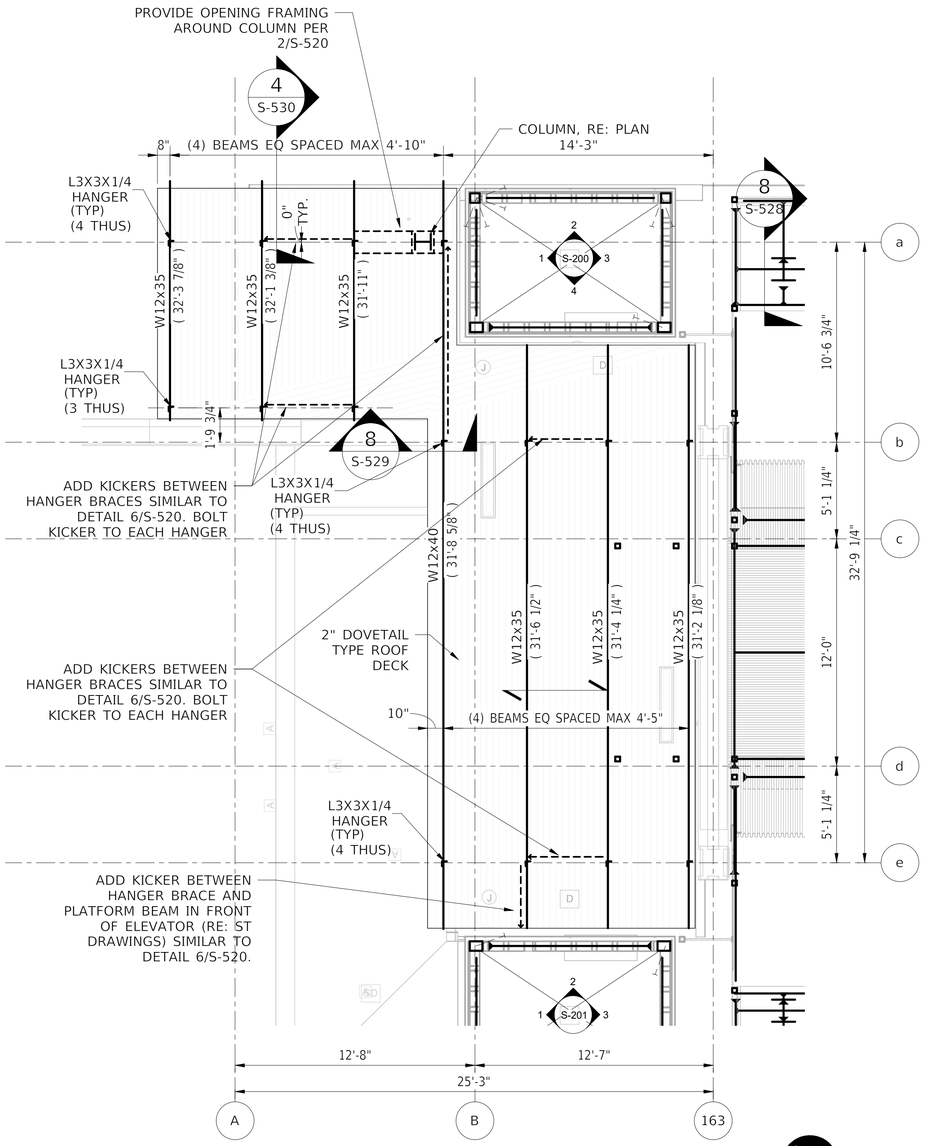
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STRUCTURAL ENLARGED STAIR PLANS

LSCAL | S-402

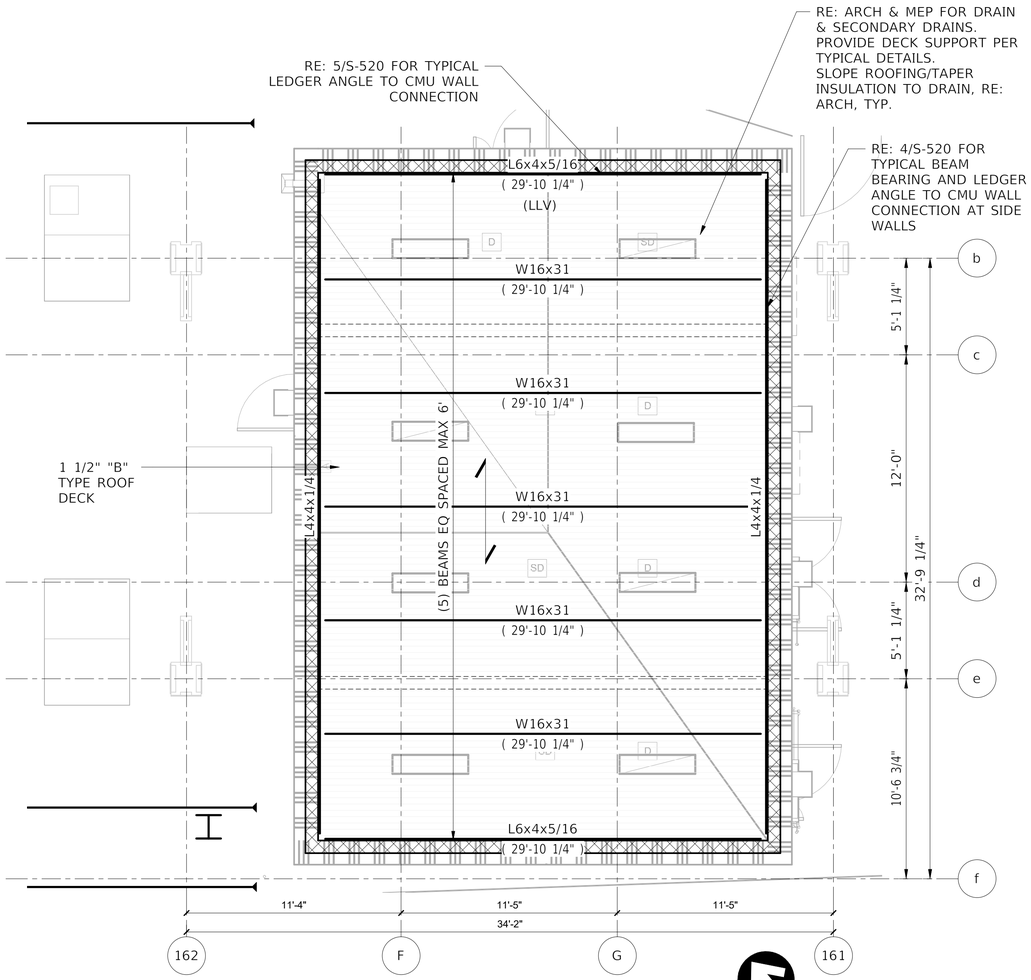
VOLUME: 1 OF 1

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2 SWMS - ENLARGED FRAMING BELOW
S-403 SCALE: 1/4" = 1'-0"

NORTH



1 MECHANICAL ROOM - ENLARGED ROOF FRAMING
S-403 SCALE: 1/4" = 1'-0"

NORTH

0 4' 8'
SCALE: 1/4"=1'-0"

NORTH

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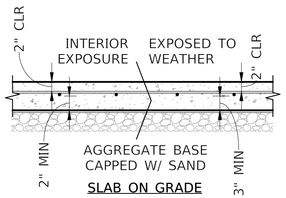
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STRUCTURAL ENLARGED PLANS

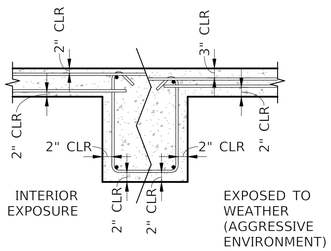
LSCAL | S-403
VOLUME: 1 OF 1

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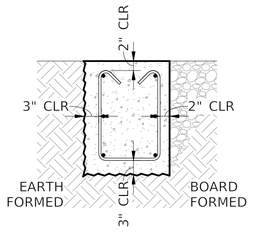
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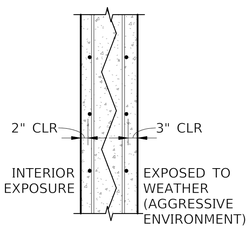
SLAB ON GRADE



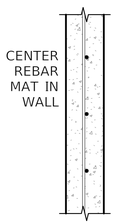
SLAB AND BEAM



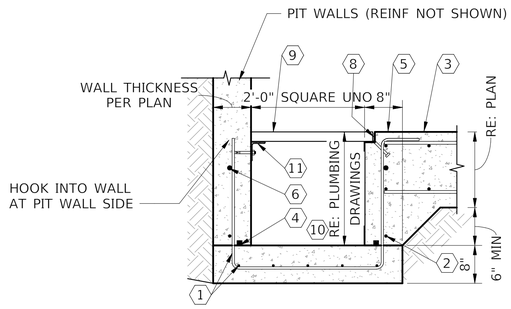
GRADE BEAM OR FOOTING



WALL
2 LAYER OF REINF OR COLUMN



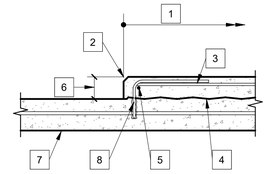
WALL
1 LAYER OF REINF



SEE PLANS FOR LOCATIONS

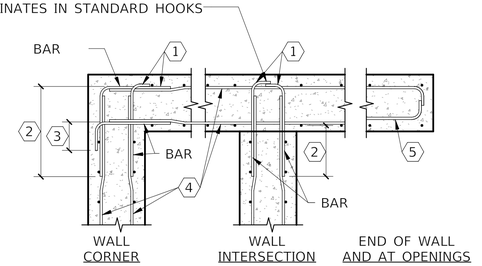
DETAIL KEYNOTES:
1. (4) #4 EA WAY W/STD HOOKS.
2. #4 AT 10" OC MAX.
3. ELEVATOR PIT SLAB THICKNESS, RE: PLAN.
4. CONSTRUCTION JOINT W/ HYDROPHILIC WATER STOP.
5. SEE PLAN FOR ELEVATION.
6. #8x8'-0" EACH SIDE OF SUMP. PROVIDE STANDARD HOOK AT DISCONTINUOUS ENDS.
7. REFERENCE M/E/P AND ARCHITECTURAL DRAWINGS FOR BLOCKOUTS.
8. L2x2x3/16 AT FOUR CORNERS W 1/2" DIA x 4" STUDS AT 12" OC, GALV.
9. GRATE, RE: SPECIFICATIONS.
10. COORDINATE PIT DEPTH WITH ELEVATOR SUPPLIER.
11. STAINLESS STEEL A3O4 L4x3x1/4 (LLV) W/(2) 3/4" DIA POST INSTALLED EXPANSION ANCHORS PROVIDE IN LIEU OF EMBEDED ANGLE AT EDGES OF SUMP PIT ADJACENT TO PIT WALLS.

5 SUMP PUMP PIT DETAIL
S-500 NOT TO SCALE



DETAIL KEYNOTES:
1. PAD SIZE: 1'-0" EACH WAY LARGER THAN EQUIPMENT BASE OR SEE PLAN FOR SIZE.
2. CHAMFER ALL SIDES 3/4" TYP.
3. #3 AT 12" OC UNO, 2" CLEAR OF TOP.
4. CONSTRUCTION JOINT, ROUGHEN SURFACE TO 1/4 AMPLITUDE AND APPLY BONDING AGENT.
5. #3 CONT AROUND PERIMETER.
6. 4" TYPICAL UNLESS NOTED OTHERWISE ON PLAN.
7. SLAB ON GRADE OR SLAB ON METAL DECK.
8. EPOXY ANCHOR WITH 3" EMBEDMENT.

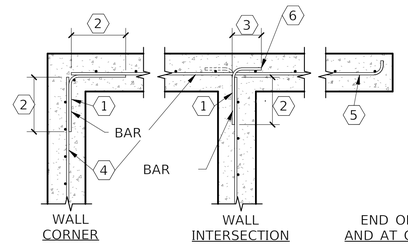
4 TYPICAL HOUSE KEEPING PAD DETAIL
S-500 SCALE: 1" = 1'-0"



DETAIL KEYNOTES:
1. BARS "A" AND "B" SHALL MATCH SIZE AND SPACING OF TYPICAL HORIZONTAL WALL REINFORCEMENT, UNLESS SPECIFICALLY INDICATED ON PLANS.
2. SPLICE LENGTH ON "A" AND "B" BARS SHALL BE AS INDICATED ON SCHEDULE, OR A MINIMUM OF A CLASS B LAP AS DEFINED BY ACI 318.
3. BAR "B" SHALL HAVE A STANDARD HOOK AS DEFINED BY ACI 318.
4. TYPICAL HORIZONTAL WALL REINFORCEMENT.
5. END BAR WITH STANDARD HOOK OR U-BARS.

3 TYPICAL MIN CONCRETE COVER
S-500 NOT TO SCALE

2 DOUBLE LAYER WALL REINF
S-500 NOT TO SCALE



DETAIL KEYNOTES:
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2. SPLICE LENGTH ON "A" AND "B" BARS SHALL BE AS INDICATED ON SCHEDULE, OR A MINIMUM OF A CLASS B LAP AS DEFINED BY ACI 318.
3. BAR "B" SHALL HAVE A STANDARD HOOK AS DEFINED BY ACI 318.
5. END BAR WITH STANDARD HOOK OR U-BARS.
6. DOWELS MAY BE ELIMINATED IF WALL REINFORCEMENT TERMINATES IN STANDARD

1 SINGLE LAYER WALL REINF
S-500 NOT TO SCALE

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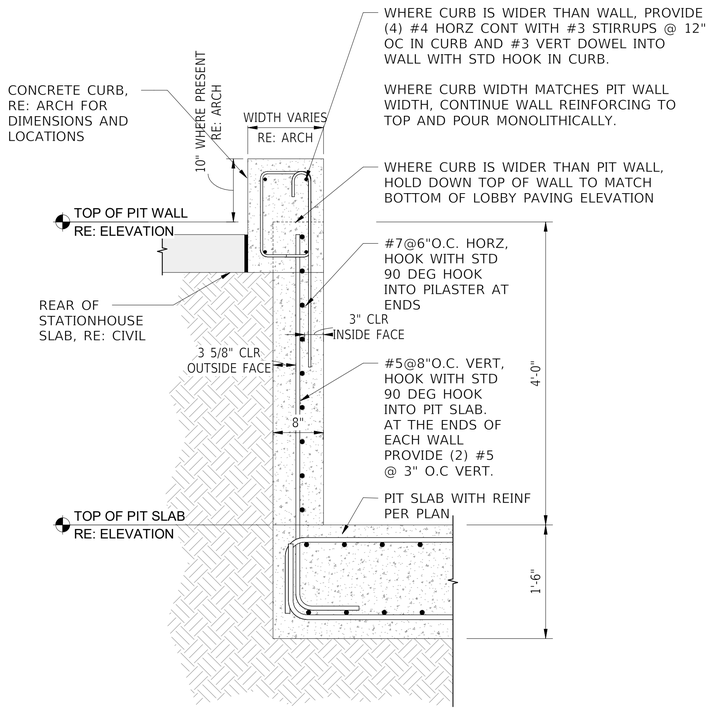
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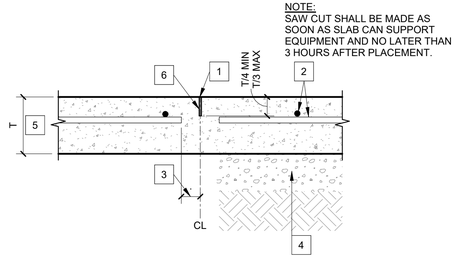
STRUCTURAL GENERAL DETAILS - CONCRETE

LSCAL | S-500
VOLUME: 1 OF 1

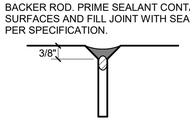
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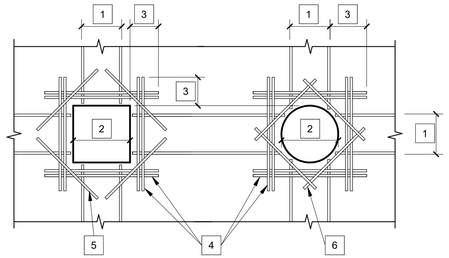
5 S-501 ELEVATOR PIT WALL TYPICAL SECTION
SCALE: 1" = 1'-0"



DETAIL KEYNOTES:
1. SAW JOINT.
2. REINFORCING BARS EACH WAY, RE: PLAN.
3. CUT ALTERNATE WIRES OR REINFORCING BARS 2" CLEAR AT JOINT CENTER LINE.
4. SEE STRUCTURAL GENERAL NOTES & SPECIFICATIONS FOR UNDERSLAB REQUIREMENTS.
5. REFERENCE PLANS FOR SLAB THICKNESS, "T".
6. JOINTS EXPOSED TO WEATHER OR IN PARKING OR DRIVE SLABS SHALL BE FILLED WITH SEALANT. USING A "V" BLADE CUT A GROOVE IN TOP OF THE SAW CUT, FILL REMAINING SAW CUT WITH CLOSED CELL BACKER ROD. PRIME SEALANT CONTACT SURFACES AND FILL JOINT WITH SEALANT PER SPECIFICATION.



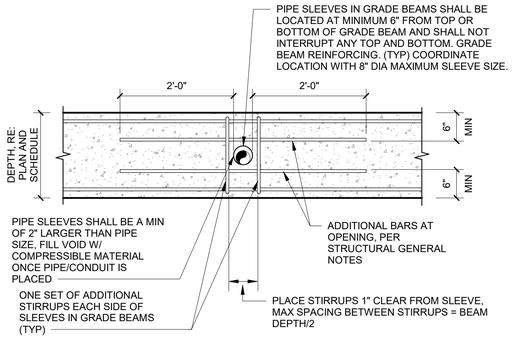
4 S-501 SLAB CONTROL JOINT DETAIL
SCALE: 1 1/2" = 1'-0"



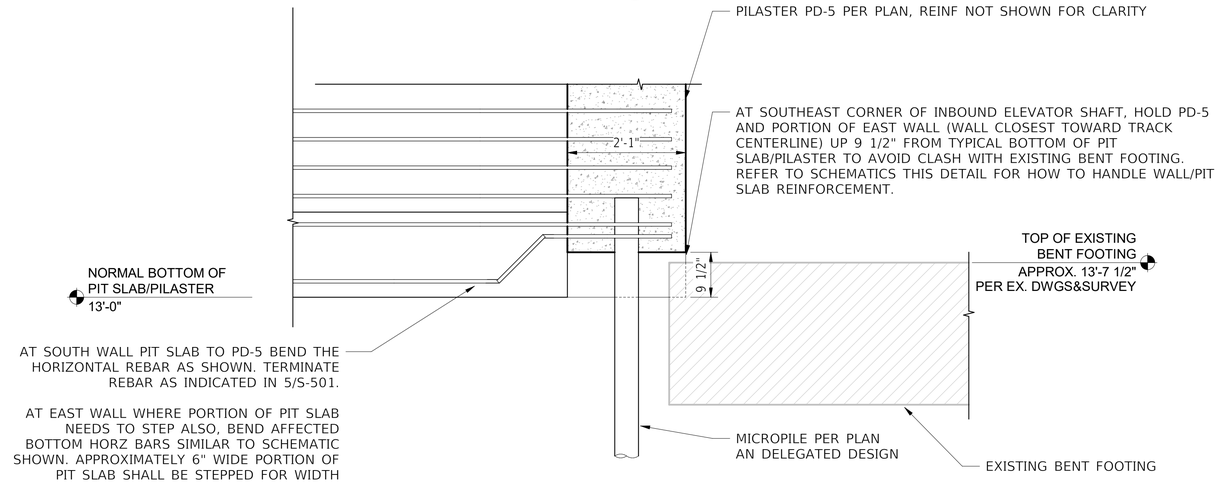
DETAIL KEYNOTES:
1. REINFORCEMENT INTERRUPTED BY OPENING.
2. OPENING AS REQUIRED.
3. CLASS B MIN LAP SPLICE LENGTH, RE: GENERAL NOTES.
4. PROVIDE BARS WITH AREA EQUAL TO INTERRUPTED REINFORCEMENT. PLACE 1/2 ON EACH SIDE OF OPENING AT 3" MAXIMUM SPACING.
5. PROVIDE (1) #5 x 5'-0" DIAGONAL BAR AT EACH LAYER OF REINFORCEMENT.
6. PROVIDE (1) #5 x 5'-0" DIAGONAL BAR ON 4 SIDES FOR EACH LAYER OF REINFORCEMENT. OMIT FOR OPENING DIAMETER < 12" AT ROUND OPENINGS ONLY.

NOTE: REINFORCING PER THIS DETAIL SHALL BE INSTALLED IN CAST IN PLACE CONCRETE WALLS AND STRUCTURAL SLABS.

3 S-501 OPENING REINF IN WALLS & SLAB
NOT TO SCALE



2 S-501 TYPICAL SLEEVE THRU GRADE BEAM
NOT TO SCALE



1 S-501 CONCRETE DETAIL
NOT TO SCALE

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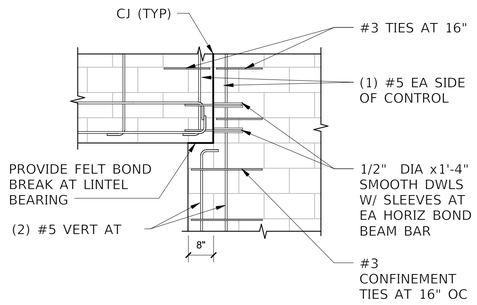
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STRUCTURAL GENERAL DETAILS - CONCRETE

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VOLUME: 1 OF 1

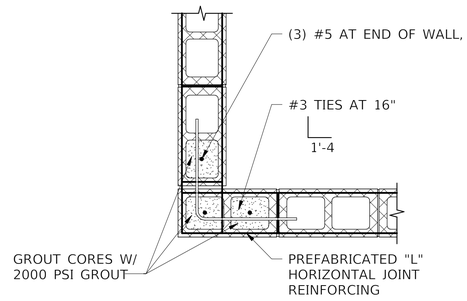
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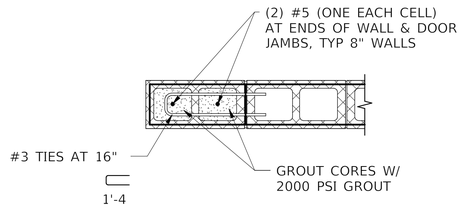
ELEVATION AT LINTEL BEARING AT CONTROL

5 S-510 ELEVATION AT 8" MASONRY LINTEL BEARING
NOT TO SCALE



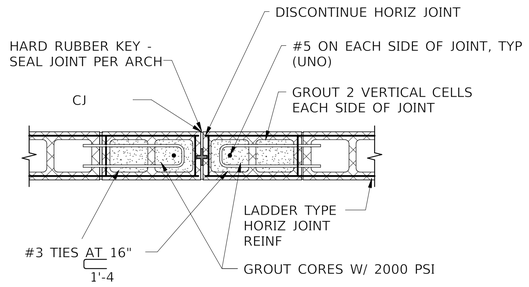
PROVIDE #4 DOWELS IN FOUNDATION MATCHING LOCATION OF VERTICAL BARS

4 S-510 MASONRY WALL CORNER DETAIL
NOT TO SCALE



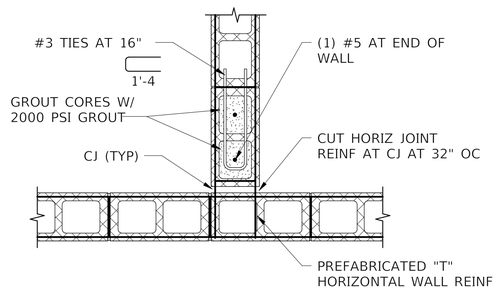
PROVIDE #4 DOWELS IN FOUNDATION MATCHING LOCATION OF VERTICAL BARS SHOWN

3 S-510 8" WALL END OR OPENING DETAIL
NOT TO SCALE



PROVIDE #4 DOWELS IN FOUNDATION MATCHING LOCATION OF VERTICAL BARS SHOWN

2 S-510 EXTERIOR 8" WALL CONTROL JOINT
NOT TO SCALE



1 S-510 INTERIOR/EXTERIOR 8" WALL INTERSECTION
NOT TO SCALE

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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	C. MIDKIFF
CHECKED BY	N. HUNT
DESIGNED BY	C. MIDKIFF
DRAWN BY	C. BRYANT

MARK	DATE	DESCRIPTION
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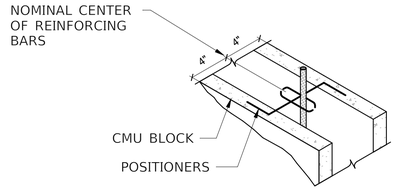
STRUCTURAL GENERAL DETAILS - MASONRY

LSCAL | S-510

VOLUME: 1 OF 1

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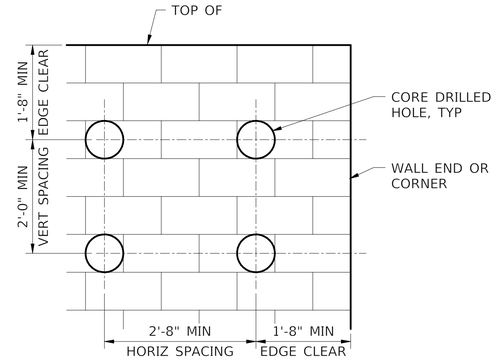
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8" CMU

ALL REINFORCEMENT SHALL BE SUPPORTED BY 9 GAUGE WIRE BAR POSITIONERS PLACED AT FIRST COURSE, ONE COURSE BELOW TOP OF WALL AT EACH

4 S-511 REBAR POSITIONER DETAIL
NOT TO SCALE



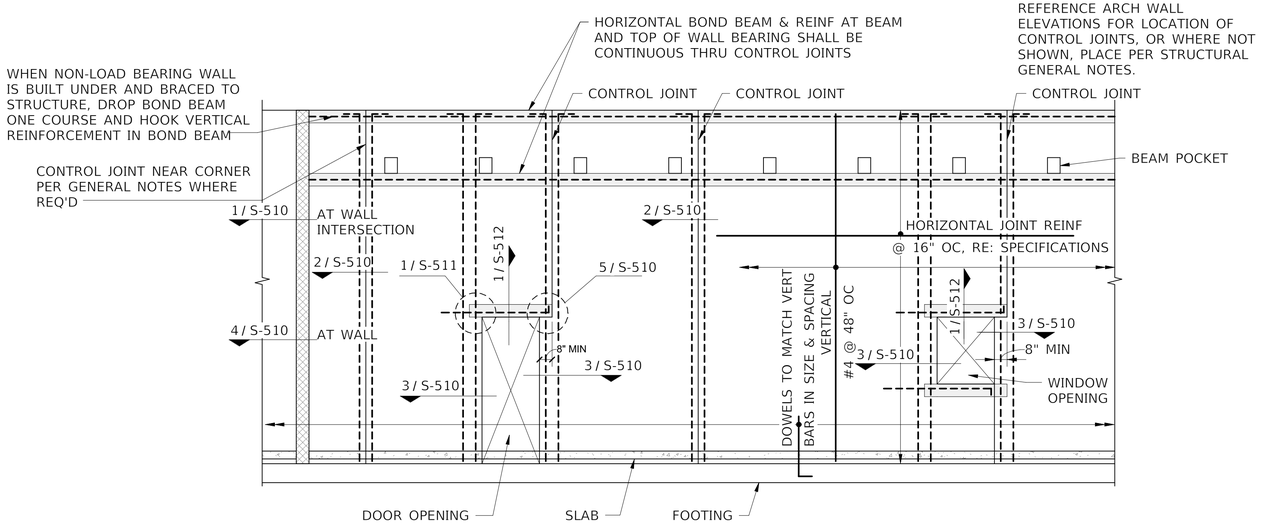
1. ROUND CORE DRILLED HOLES SHALL NOT BE LARGER THAN 8" DIAMETER AND SHALL NOT CUT THROUGH MULTIPLE UNITS.

2. HOLES SHALL NOT BE CUT IN ANY CELLS THAT ARE GROUTED AND REINFORCED. LOCATE REINFORCING USING RESISTANCE METER OR GPR, AND MARK ON WALL, PRIOR TO CUTTING ANY HOLES.

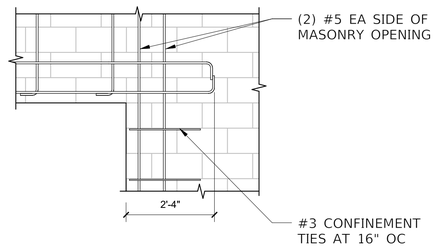
3. BOTH THE MAXIMUM HORIZONTAL AND VERTICAL SPACING REQUIREMENTS IN THIS DETAIL APPLY TO ANY TWO INDIVIDUAL HOLES. STACK HOLES TO ACHIEVE THIS.

4. FOR CLUSTERS OF ROUND PENETRATIONS OR PENETRATIONS LARGER THAN 8" , SEE DETAILS 1/S-021

3 S-511 TYPICAL CMU WALL ROUND PENETRATION DETAIL
NOT TO SCALE



2 S-511 MASONRY WALL ELEVATION
NOT TO SCALE



1 S-511 ELEVATION AT 8" MASONRY LINTEL BEARING
NOT TO SCALE

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HNTB Corporation
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(312) 930-9119

CHICAGO TRANSIT AUTHORITY
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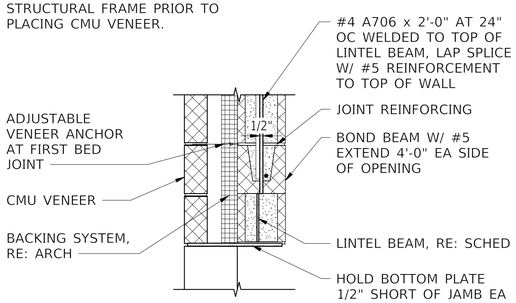
STRUCTURAL GENERAL DETAILS - MASONRY

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VOLUME: 1 OF 1

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NOTE: CMU BACKUP SHALL BE COMPLETE AND ATTACHED TO STRUCTURAL FRAME PRIOR TO PLACING CMU VENEER.

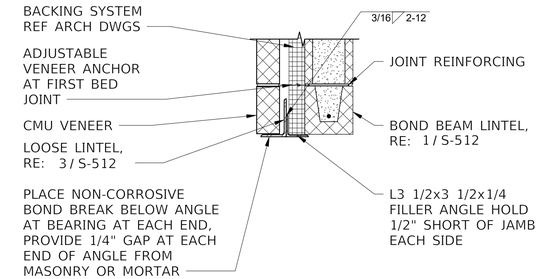


OPENINGS 7'-1" TO 10'-0"

NOTE: THIS DETAIL TO BE USED AT ALL EXTERIOR WALLS WITH OPENINGS GREATER THAN 7'-0", UNO.

5 TYPICAL CMU VENEER LINTEL DETAIL
S-512 SCALE: 1" = 1'-0"

NOTE: CMU BACKUP SHALL BE COMPLETE AND ATTACHED TO STRUCTURAL FRAME PRIOR TO PLACING CMU VENEER.



OPENINGS 7'-0" OR LESS

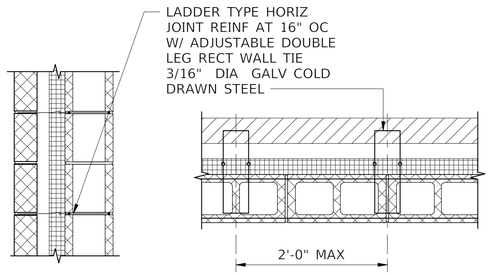
NOTE: THIS DETAIL TO BE USED AT ALL EXTERIOR WALLS WITH OPENINGS GREATER THAN 7'-0", UNO.

4 TYPICAL CMU VENEER LINTEL DETAIL
S-512 NOT TO SCALE

LOOSE LINTEL SCHEDULE		
OPENING WIDTH	LINTEL SIZE	BEARING LENGTH
UP TO 3'-8"	4" x 4" x 1/4" ANGLE	8"
3'-9" TO 5'-4"	6" x 4" x 5/16" ANGLE	8"
5'-5" TO 7'-0"	7" x 4" x 3/8" ANGLE	8"
7'-1" TO 10'-0"	W8x24 W/ 3/8" BOTTOM PLATE	8"

1. REFERENCE DETAIL 4/S-512 FOR LINTEL SECTION AND ADDITIONAL REQUIREMENTS.
2. LINTELS SIZE ONLY APPLY TO WHERE DETAILS CALL OUT "LINTEL SCHEDULE"
3. ALL STEEL ANGLE LINTELS SHALL BE POSITIONED WITH 4" LEG HORIZONTAL.
4. ALL LINTELS AND LINTEL ASSEMBLIES IN EXTERIOR APPLICATIONS SHALL BE HOT-DIPPED GALVANIZED.

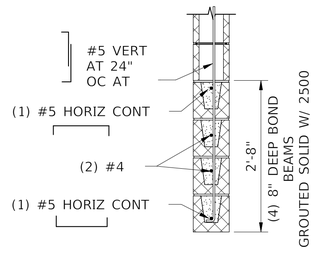
3 LOOSE LINTEL SCHEDULE
S-512 NOT TO SCALE



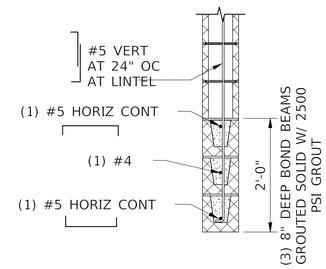
SUGGESTED DETAIL

ADJUSTABLE WALL TIES FOR CAVITY WALLS WITH RIGID INSULATION

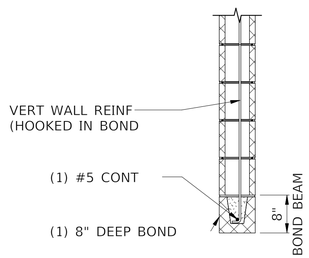
2 TYPICAL MASONRY DETAIL
S-512 NOT TO SCALE



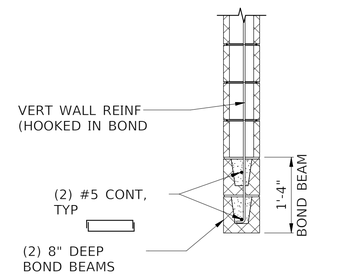
C BEARING WALL LINTELS AT OPENINGS 8'-0" < TO 12'-0"



D BEARING WALL LINTEL AT OPENINGS UP TO 6'-0" TO



A NON-BEARING WALLS AT OPENINGS UP TO 4'-0"



B BEARING WALL LINTEL AT OPENINGS UP TO 6'-0"

8" MASONRY LINTELS (UNO)

1 8" TYPICAL MASONRY LINTEL DETAILS
S-512 NOT TO SCALE

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One South Wacker Drive, Suite 900
Chicago, Illinois 60606
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STRUCTURAL GENERAL DETAILS - MASONRY

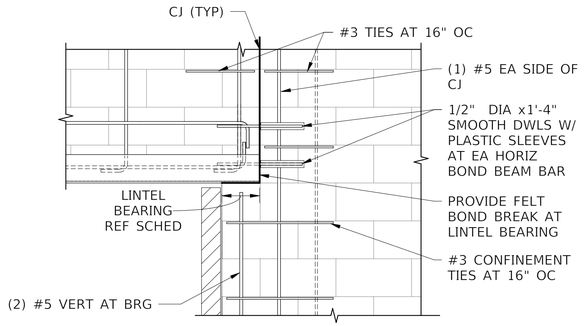
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VOLUME: 1 OF 1

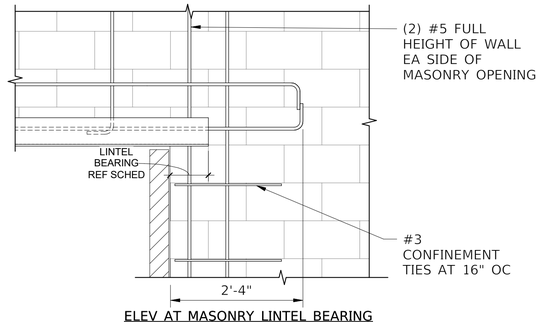
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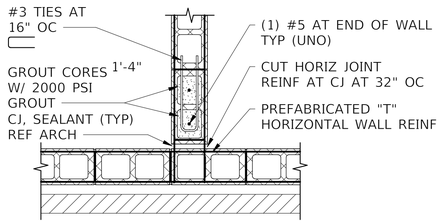
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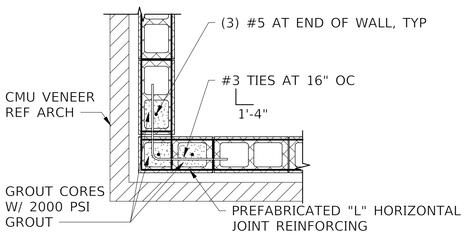
ELEV AT LINTEL BEARING AT CJ



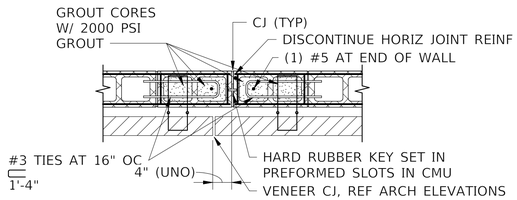
ELEV AT MASONRY LINTEL BEARING



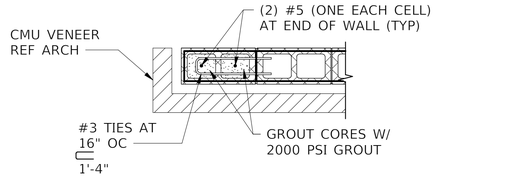
EXTERIOR WALL INTERSECTION



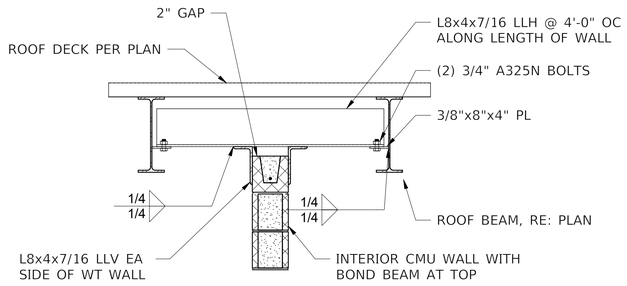
WALL CORNER



EXT WALL CONTROL JOINT



WALL END OR OPENING



2 S-513 TOP OF WALL BRACE AT INTERIOR CMU WALL
SCALE: 3/4" = 1'-0"

1 S-513 TYPICAL 8" MASONRY DETAIL W/ BRICK
NOT TO SCALE

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HNTB Corporation
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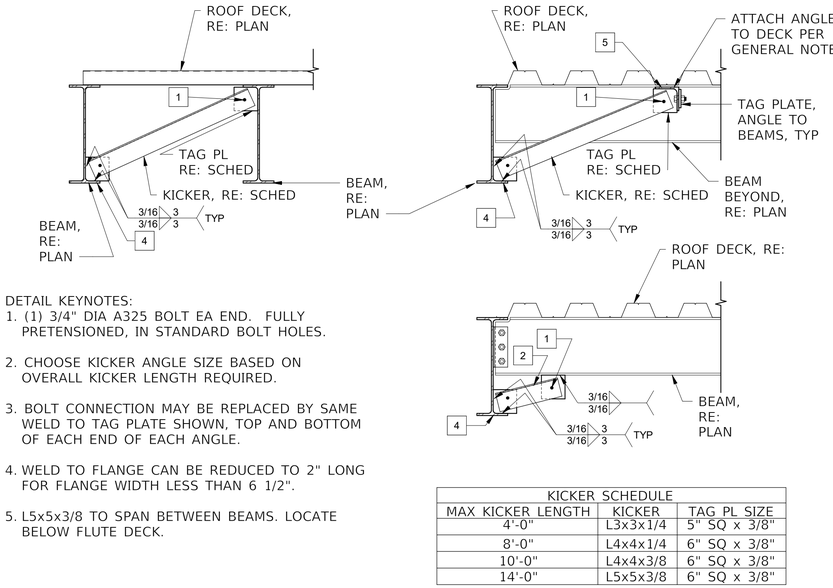
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STRUCTURAL GENERAL DETAILS - MASONRY

LSCAL | S-513

VOLUME: 1 OF 1



DETAIL KEYNOTES:
1. (1) 3/4" DIA A325 BOLT EA END. FULLY PRETENSIONED, IN STANDARD BOLT HOLES.

2. CHOOSE KICKER ANGLE SIZE BASED ON OVERALL KICKER LENGTH REQUIRED.

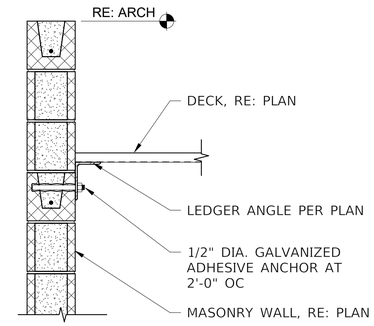
3. BOLT CONNECTION MAY BE REPLACED BY SAME WELD TO TAG PLATE SHOWN, TOP AND BOTTOM OF EACH END OF EACH ANGLE.

4. WELD TO FLANGE CAN BE REDUCED TO 2" LONG FOR FLANGE WIDTH LESS THAN 6 1/2".

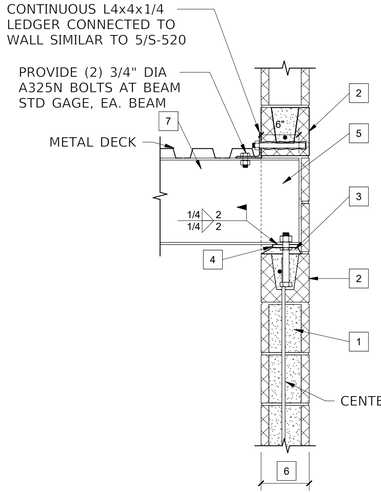
5. L5x5x3/8 TO SPAN BETWEEN BEAMS. LOCATE BELOW FLUTE DECK.

KICKER SCHEDULE		
MAX KICKER LENGTH	KICKER	TAG PL SIZE
4'-0"	L3x3x1/4	5" SQ x 3/8"
8'-0"	L4x4x1/4	6" SQ x 3/8"
10'-0"	L4x4x3/8	6" SQ x 3/8"
14'-0"	L5x5x3/8	6" SQ x 3/8"

6 S-520 TYPICAL ANGLE KICKER DETAIL
NOT TO SCALE



5 S-520 LEDGER ANGLE TO CMU
NOT TO SCALE



DETAIL KEYNOTES:
1. TWO GROUTED CELLS FULL HEIGHT BELOW BEAM BEARING. PROVIDE ONE GROUTED CELL FULL HEIGHT OF WALL EACH SIDE OF BEAM POCKET, (4) VERTICAL GROUTED CELLS MINIMUM. REINFORCE WITH (1) #5 VERTICAL MINIMUM (UNO) IN EACH CELL.

2. TYPICAL BOND BEAM, OR (1) #5 x 4'-0" HORIZONTAL IN 4'-0" BOND BEAM, CENTERED BELOW BEAM.

3. 1" MINIMUM NON-SHRINK GROUT UNDER BEARING PLATE.

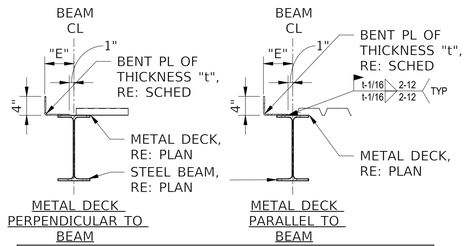
4. 4"x1/2"x8" GALVANIZED BEARING PLATE CENTERED ON WALL WITH (2) 3/4" DIA x 0'-8" ANCHOR RODS SET AT STANDARD BEAM GAUGE AND DOUBLE NUTS.

5. 16" WIDE BEAM POCKET. GROUT POCKET SOLID AFTER INSTALLATION OF BEAM.

6. CMU WALL THICKNESS, RE: PLAN.

7. BEAM, RE: PLAN FOR SIZE. BEAM FRAMES PERPENDICULAR TO WALL.

4 S-520 MASONRY BEAM BEARING CONNECTION
NOT TO SCALE

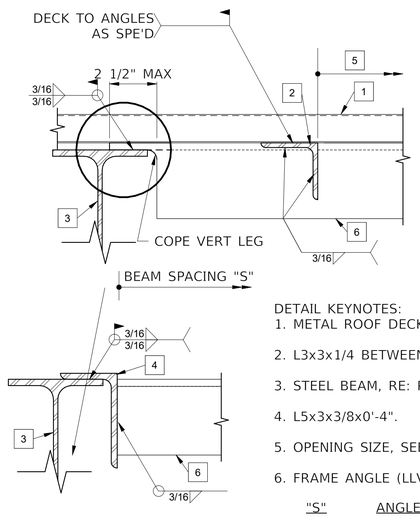


BENT PLATE DECK EDGE SCHEDULE		
MAX "E"	BENT PL "t"	COMMENTS
6"-12"	1/4"	
12"-18"	5/16"	

NOTES:
1. BENT PLATE SIZES SHOWN ON PLAN OR IN DETAILS SUPERCEDE THIS SCHEDULE.

2. THIS SCHEDULE APPLIES TO ALL EXTERIOR AND INTERIOR SLAB EDGES AND AT SLAB OPENINGS FOR MECHANICAL GREATER THAN 24" IN ANY DIRECTION.

3 S-520 TYP ROOF DECK EDGE SCHED AND DETAILS
NOT TO SCALE



DETAIL KEYNOTES:
1. METAL ROOF DECK, RE: PLAN.

2. L3x3x1/4 BETWEEN FRAME ANGLES.

3. STEEL BEAM, RE: PLAN.

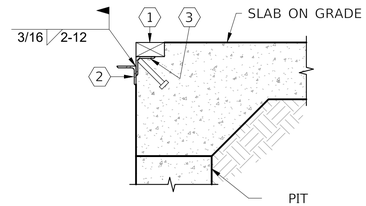
4. L5x3x3/8x0'-4".

5. OPENING SIZE, SEE PLAN.

6. FRAME ANGLE (LLV)

"S"	ANGLE SIZE
0' TO 4'	L4x3x3/8 LLV
4' TO 6'	L5x3x3/8 LLV
6' TO 8'	L6x4x3/8 LLV

2 S-520 TYPICAL ROOF OPENING DETAIL
NOT TO SCALE



DETAIL KEYNOTES:
1. RE: ARCH & ELEVATOR SUPPLIER FOR BLOCKOUT.

2. RE: ARCH & ELEVATOR SUPPLIER FOR SILL ANGLE.

3. EMBED L2x2x1/4 CONT ALONG SILL, W/ 1/2" DIA x 0'-6" HD STUDS AT 12"

1 S-520 ELEVATOR ENTRANCE EDGE DETAIL
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STRUCTURAL GENERAL DETAILS - STEEL

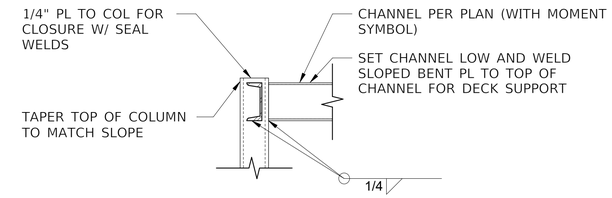
LSCAL | S-520
VOLUME: 1 OF 1

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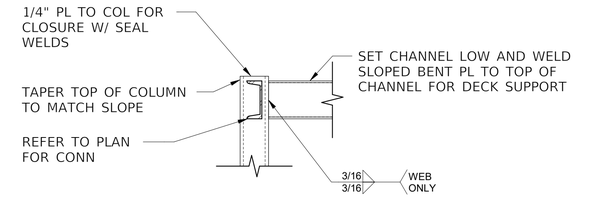
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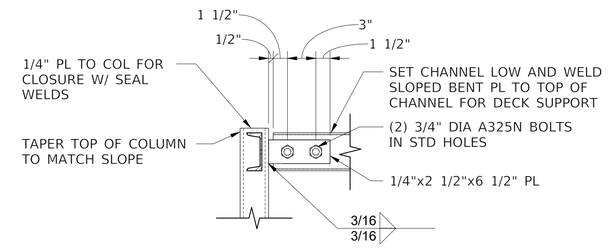
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CM- (CHANNEL MOMENT CONN)



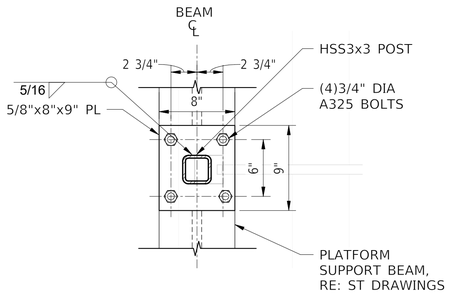
CW- (CHANNEL WELDED PINNED CONN)



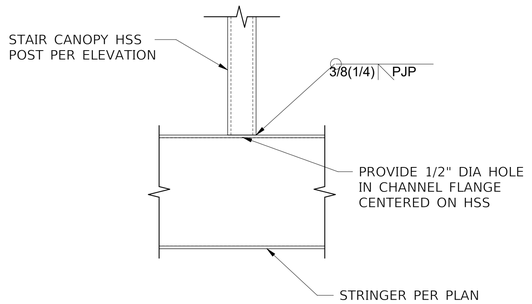
CB- (CHANNEL BOLTED CONN)

2 CHANNEL TYP CONNECTIONS
S-521 SCALE: 1 1/2" = 1'-0"

3 ELEVATOR ENCLOSURE ELEVATION
S-521 SCALE: 3/4" = 1'-0"



4 ELEVATOR ENCLOSURE BASE DETAIL
S-521 SCALE: 1 1/2" = 1'-0"



1 TYP HSS POST TO STRINGER CONNECTION
S-521 SCALE: 1 1/2" = 1'-0"

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Chicago, Illinois 60606
(312) 930-9119

CHICAGO TRANSIT AUTHORITY
ENGINEERING

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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	C. MIDKIFF
CHECKED BY	N. HUNT
DESIGNED BY	C. MIDKIFF
DRAWN BY	C. BRYANT

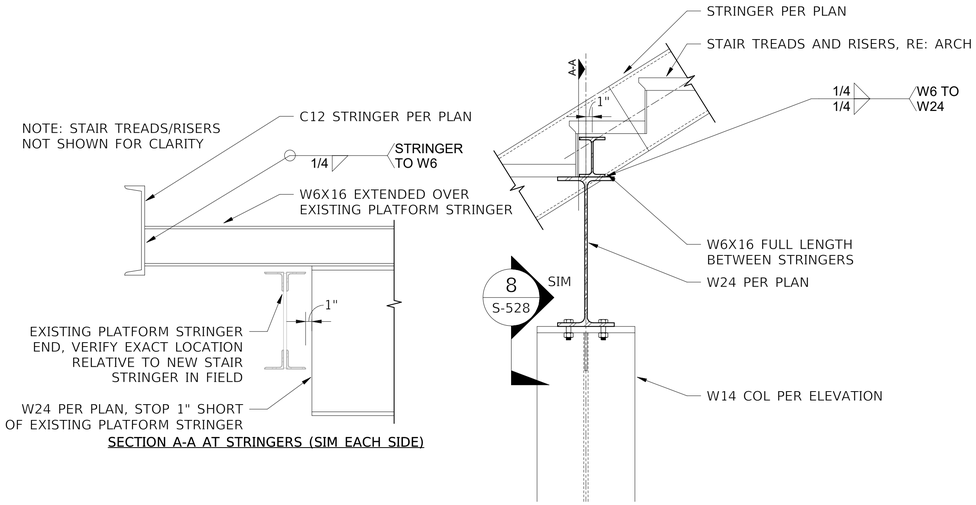
MARK	DATE	DESCRIPTION
0	12/30/2024	ISSUED FOR BID

STRUCTURAL DESIGNED CONN DETAILS - STEEL

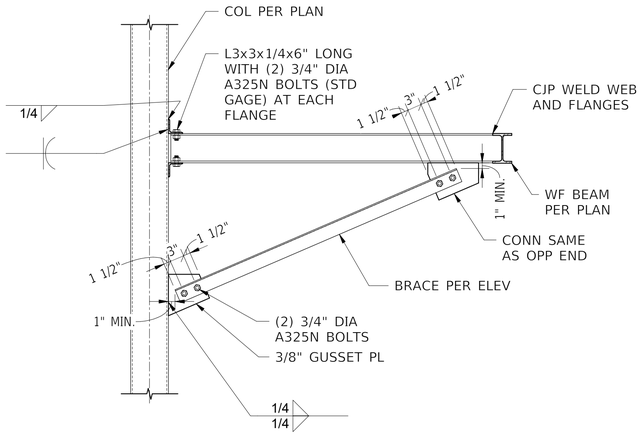
LSCAL

S-521

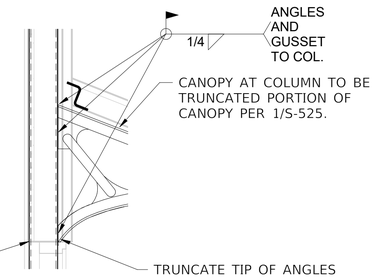
VOLUME: 1 OF 1



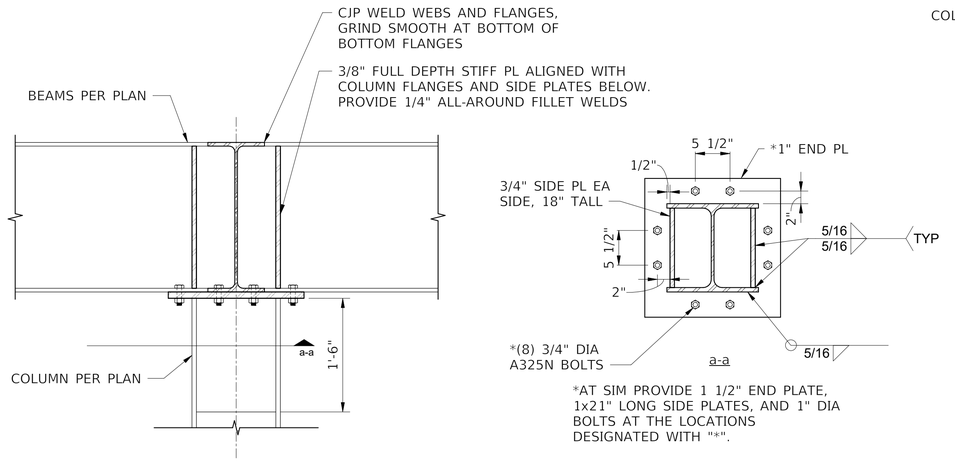
5 S-522 STAIR STRINGER TO SUPPORT NEAR BENT 162
SCALE: 1" = 1'-0"



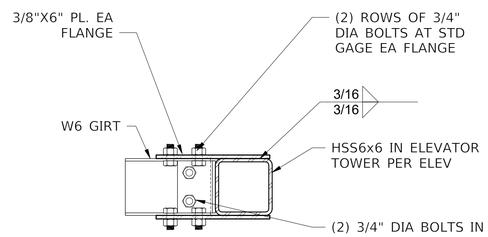
3 S-522 BRACE STRUT AT ELEVATOR CANOPY
NOT TO SCALE



2 S-522 CANOPY AT ELEVATOR SHAFT
SCALE: 3/4" = 1'-0"



4 S-522 STAIR COLUMN CONNECTION AT LANDINGS
SCALE: 1" = 1'-0"



1 S-522 W6 GIRT TO TUBE AT ELEVATOR TOWER
SCALE: 1 1/2" = 1'-0"

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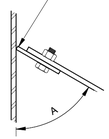
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STRUCTURAL DESIGNED CONN DETAILS - STEEL

LSCAL | S-522

VOLUME: 1 OF 1

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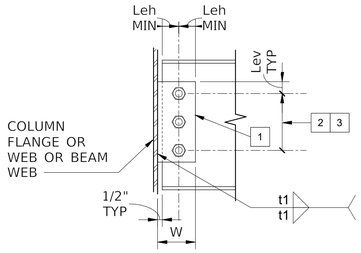


TOP VIEW

SKEWED PLATES:
90° ≥ A > 60°: USE FILLET WELDS WITH EFFECTIVE THROAT EQUIVALENT TO THOSE SPECIFIED.

60° ≥ A > 45°: USE SINGLE BEVEL GROOVE WELD, COMPLETE PENETRATION, SHOP WELDED.

45° > A: DETAIL DOES NOT APPLY.



FOR ADD'L NOTES SEE DETAIL 1 / S-523

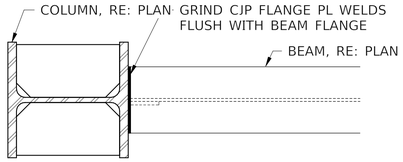
DETAIL KEYNOTES:

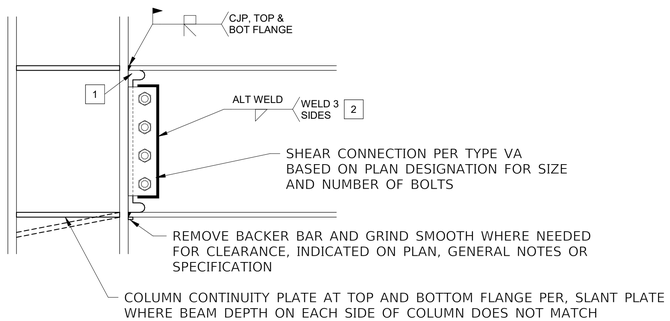
1. A572 GR 50 PLATE. SEE TABLE BELOW FOR THICKNESS (tp) PER BOLT DIA (db).
2. A325-N BOLTS AT 3" OC, STANDARD HOLES IN BEAM AND SHEAR PLATE.
3. SEE PLAN DESIGNATION FOR BOLT DIAMETER (3/4" U.N.O.) AND NUMBER OF ROWS OF BOLTS REQUIRED.

FOR EXAMPLE: VA2 = (2) 3/4" BOLTS
VA3.1 = (3) 1" BOLTS

db IN QUARTERS	3	4
BOLT GRADE	A325-N	A325-N
db	3/4"	1"
tp	5/16"	7/16"
t1	1/4"	5/16"
Leh	1 3/4"	2 1/4"
Lev	1 1/4"	1 1/2"
W	4"	5"

VA SINGLE SHEAR PLATE CONNECTION





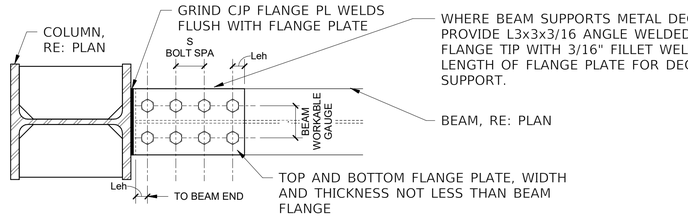
DETAIL KEYNOTES:

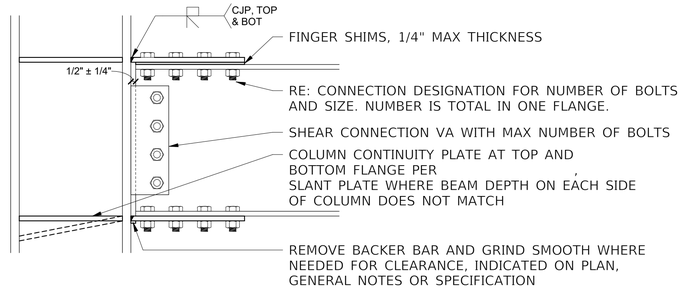
1 WELD ACCESS HOLES PER AISC SPECIFICATION REQUIREMENTS.

2 CONTRACTOR MAY CHOOSE TO SUBSTITUTE WELDED TAB PLATE FOR BOLTED PLATE. BEAM TO TAB PLATE WELD SHALL MATCH COLUMN TO TAB PLATE WELD. PROVIDE ERECTION BOLTS AS REQUIRED.

FOR ADD'L NOTES SEE DETAIL 1 / S-523

ME WELDED FLANGE PLATE TO COLUMN FLANGE





FOR ADD'L NOTES SEE DETAIL A1 / S033.1

BOLT GRADE	A325-N
db	3/4"
S	3"
LeH	1 1/2"

FOR EXAMPLE:
MC2 = (2) ROWS OF 3/4" BOLTS EACH FLANGE
MC3 = (3) ROWS OF 3/4" BOLTS EACH FLANGE

MC BOLTED FLANGE PLATE TO COLUMN FLANGE

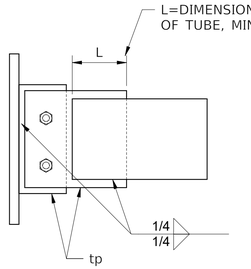
BEAM END CONNECTION GENERAL NOTES:

1. CONNECTIONS SHALL BE PROVIDED AS DESIGNATED ON FRAMING PLANS AND ELEVATIONS EXCEPT WHERE CONNECTION SPECIFICS ARE SHOWN ON DETAILS. REFERENCE "CONNECTION DESIGNATION DESCRIPTION" KEY FOR EXPLANATION OF DESIGNATIONS. DESIGNATIONS REFER TO DETAILS ON THIS SERIES OF DRAWINGS.
2. PROVIDE SIZE AND NUMBER OF BOLTS, TYPE, SIZE AND LENGTH OF WELD, AND CONNECTION PLATES AS SHOWN IN DESIGNATION OR ON DETAILS. UNLESS NOTED OTHERWISE, INDICATED BOLTS SHALL BE ASTM F3125 GRADE A325 TYPE N, WELDING ELECTRODES SHALL BE E70XX AND PLATE SHALL BE OF ASTM A572 GRADE 50 MATERIAL.
3. WHERE WELD LENGTH IS NOT GIVEN WELD SHALL EXTEND FOR THE ENTIRE PLATE INTERFACE THAT THE WELD SYMBOL ARROW POINTS TO.
4. WHERE NUMBER OF DESIGNATED BOLTS IS LESS THAT THE MIN N OF MAX/MIN BOLT TABLE, PROVIDE THE MIN N NUMBER OF BOLTS FOR THE CORRESPONDING BEAM DEPTH.
5. WHERE NUMBER OF DESIGNATED BOLTS IS GREATER THAT THE MAX N OF MAX/MIN BOLT TABLE FOR THE ASSOCIATED BEAM DEPTH OR THE NUMBER OF BOLTS DESIGNATED DO NOT FIT DUE TO NECESSARY BEAM COPES OR OFFSETS, CONTACT THE ARCHITECT/ENGINEER.
6. FOR BEAM ENDS WITHOUT CONNECTION DESIGNATION, PROVIDE VA3.# TYPE CONNECTION WITH MAX N NUMBER OF BOLTS PER MAX/MIN BOLT TABLE. FLAG CONNECTION FOR REVIEW BY ENGINEER.
7. MIN N VALUES IN PARENTHESES MAY BE REDUCED BY 1 WHEN BEAM VERTICAL OFFSET AND COPES FOR GIRDERS LIMIT THE NUMBER THAT CAN FIT AT THE BEAM WEB.

MAX/MIN BOLTS AT BEAM ENDS

BEAM SIZE	MAX N	MIN N
W8	2	2
W10	2	2
W12	(3)	2
W14	3	(3)
W16	4	3
W18	(5)	3
W21	(6)	(4)
W24	(7)	4
W27	7	(5)
W30	8	5
W33	9	(6)
W36	10	6
W40	11	(7)
W44	12	(8)

1 S-523 BEAM END CONNECTION NOTES
NOT TO SCALE



DETAIL KEYNOTES:

1. A572 GR 50 PLATE. SEE TABLE BELOW FOR THICKNESS (tp) PER BOLT DIA (db).
2. A325-N BOLTS AT 3" OC, STANDARD HOLES IN BEAM AND SHEAR PLATE.
3. SEE PLAN DESIGNATION FOR BOLT DIAMETER (3/4" U.N.O.) AND NUMBER OF ROWS OF BOLTS REQUIRED.

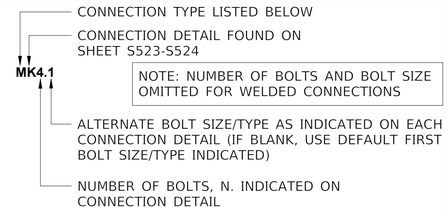
FOR EXAMPLE: VT2 = (2) 3/4" BOLTS
VT3.1 = (3) 1" BOLTS

db IN QUARTERS	3	4
BOLT GRADE	A325-N	A325-N
db	3/4"	1"
tp	5/16"	7/16"
t1	1/4"	5/16"
Leh	1 3/4"	2 1/4"
Lev	1 1/4"	1 1/2"
W	4"	5"

FOR ADD'L NOTES SEE DETAIL 1 / S-523

VT SINGLE SHEAR PLATE CONNECTION FOR TUBE BEAM

CONNECTION DESIGNATION DESCRIPTION



CONNECTION TYPES
V - SHEAR CONNECTION - RESISTS VERTICAL SHEAR
M - MOMENT CONNECTION - RESIST BEAM END MOMENTS
VB - BRACE CONNECTION - CONNECTION AT BRACE NODES

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CHICAGO, ILLINOIS 60647

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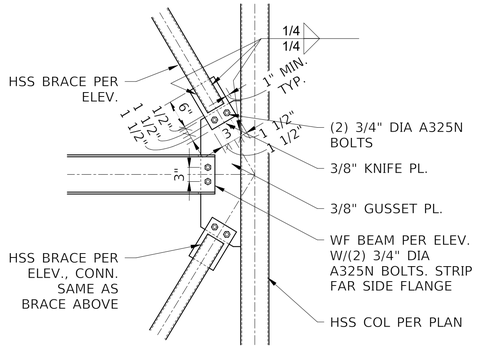
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STRUCTURAL DESIGNED CONN DETAILS - STEEL

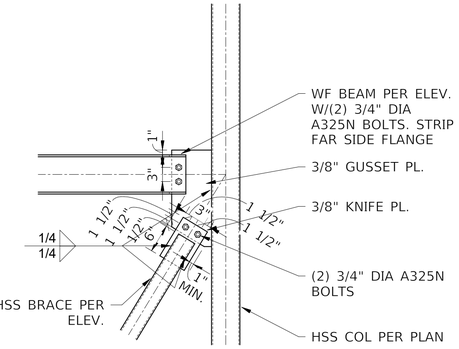
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VOLUME: 1 OF 1

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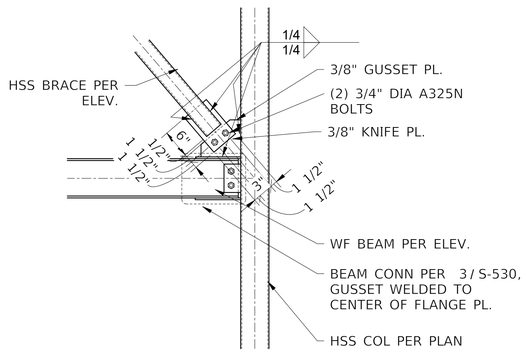
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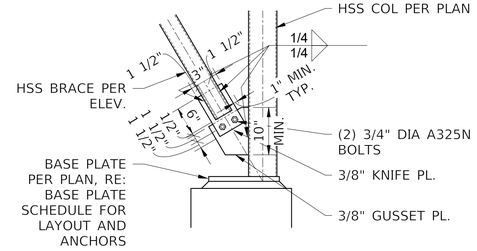
VERTICAL BRACE CONNECTION - VB1



VERTICAL BRACE CONNECTION - VB2



VERTICAL BRACE CONNECTION - VB3



VERTICAL BRACE CONNECTION - VB4

1 S-524 ELEVATOR TOWER VERTICAL BRACE CONNECTIONS
SCALE: 3/4" = 1'-0"

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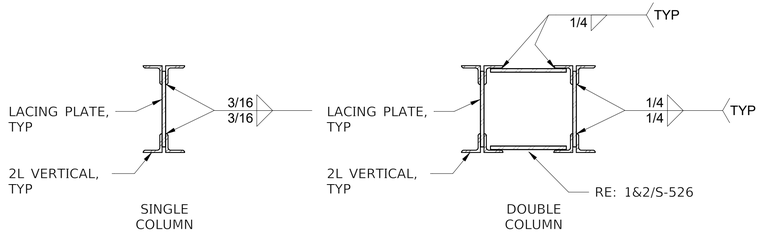
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STRUCTURAL GENERAL DETAILS - BRACED FRAME

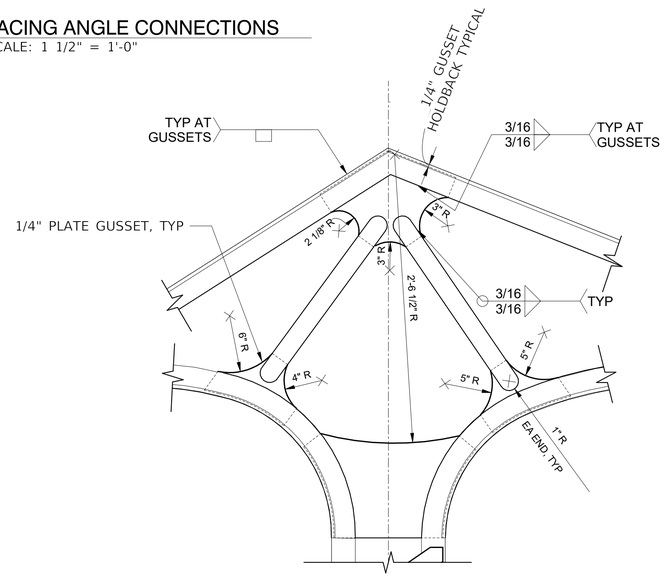
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VOLUME: 1 OF 1

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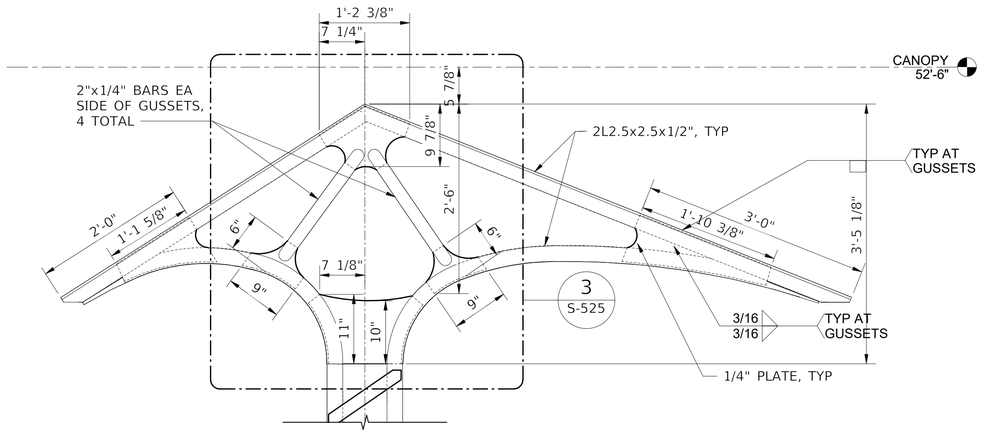


4 LACING ANGLE CONNECTIONS
S-525 SCALE: 1 1/2" = 1'-0"



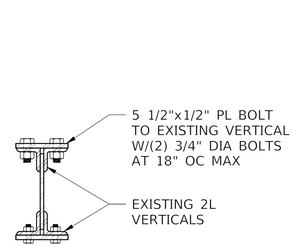
3 CANOPY GUSSET DETAIL
S-525 SCALE: 1 1/2" = 1'-0"

0 6" 1'
SCALE: 1 1/2"=1'-0"

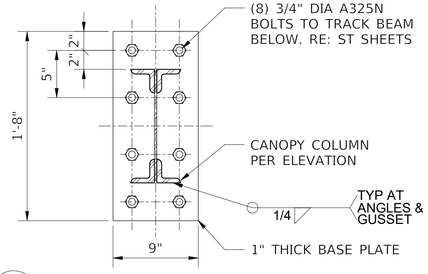


2 CANOPY FRAMING DETAIL
S-525 SCALE: 1" = 1'-0"

0 1' 2'
SCALE: 1"=1'-0"

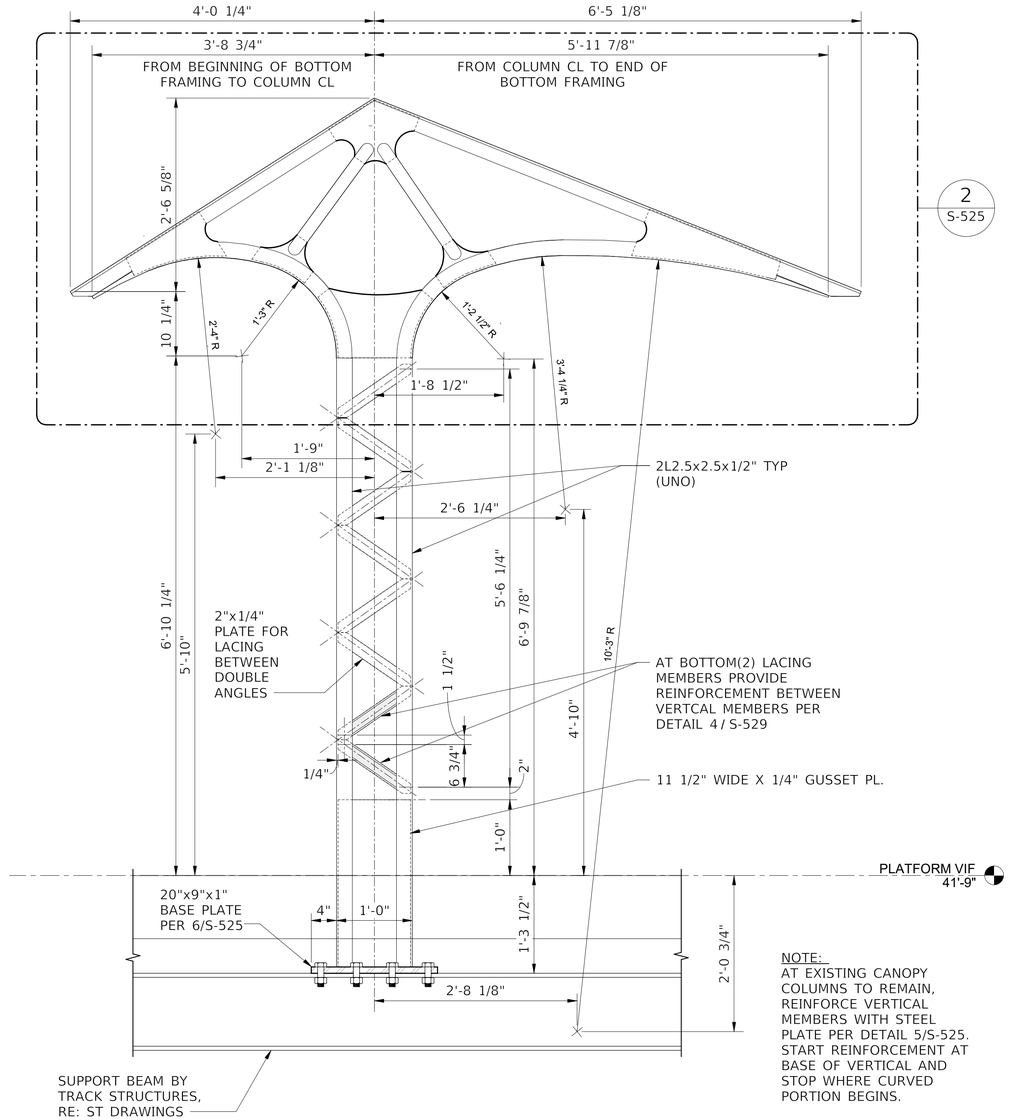


5 VERTICAL CONN
S-525 SCALE: 1 1/2" = 1'-0"



6 BASE PLATE DETAIL
S-525 SCALE: 1 1/2" = 1'-0"

0 6" 1'
SCALE: 1 1/2"=1'-0"



1 CANOPY COLUMN DETAIL
S-525 SCALE: 1" = 1'-0"

0 1' 2'
SCALE: 1"=1'-0"

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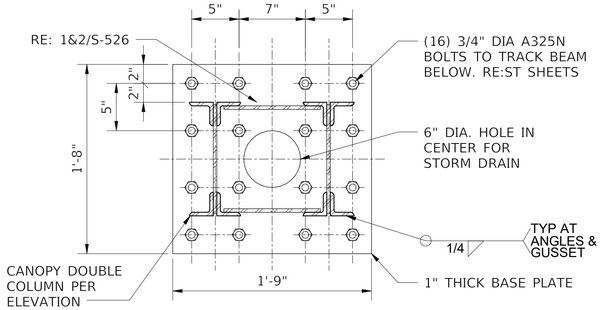
PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	C. MIDKIFF
CHECKED BY	N. HUNT
DESIGNED BY	C. MIDKIFF
DRAWN BY	C. BRYANT

MARK	DATE	DESCRIPTION
0	12/30/2024	ISSUED FOR BID

STRUCTURAL FRAMING DETAILS - CANOPY COLUMN

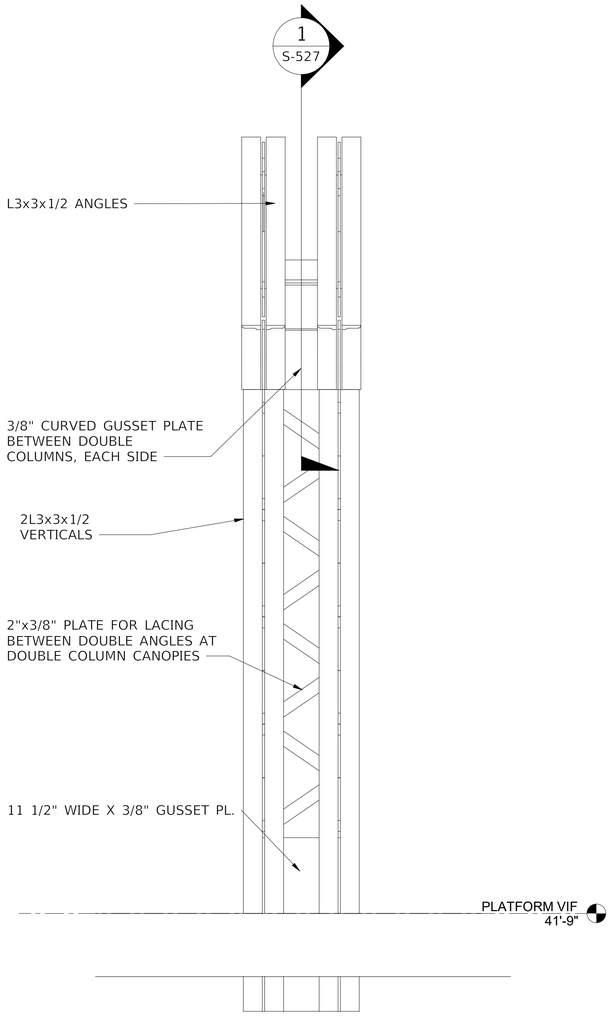
LSCAL | S-525
VOLUME: 1 OF 1

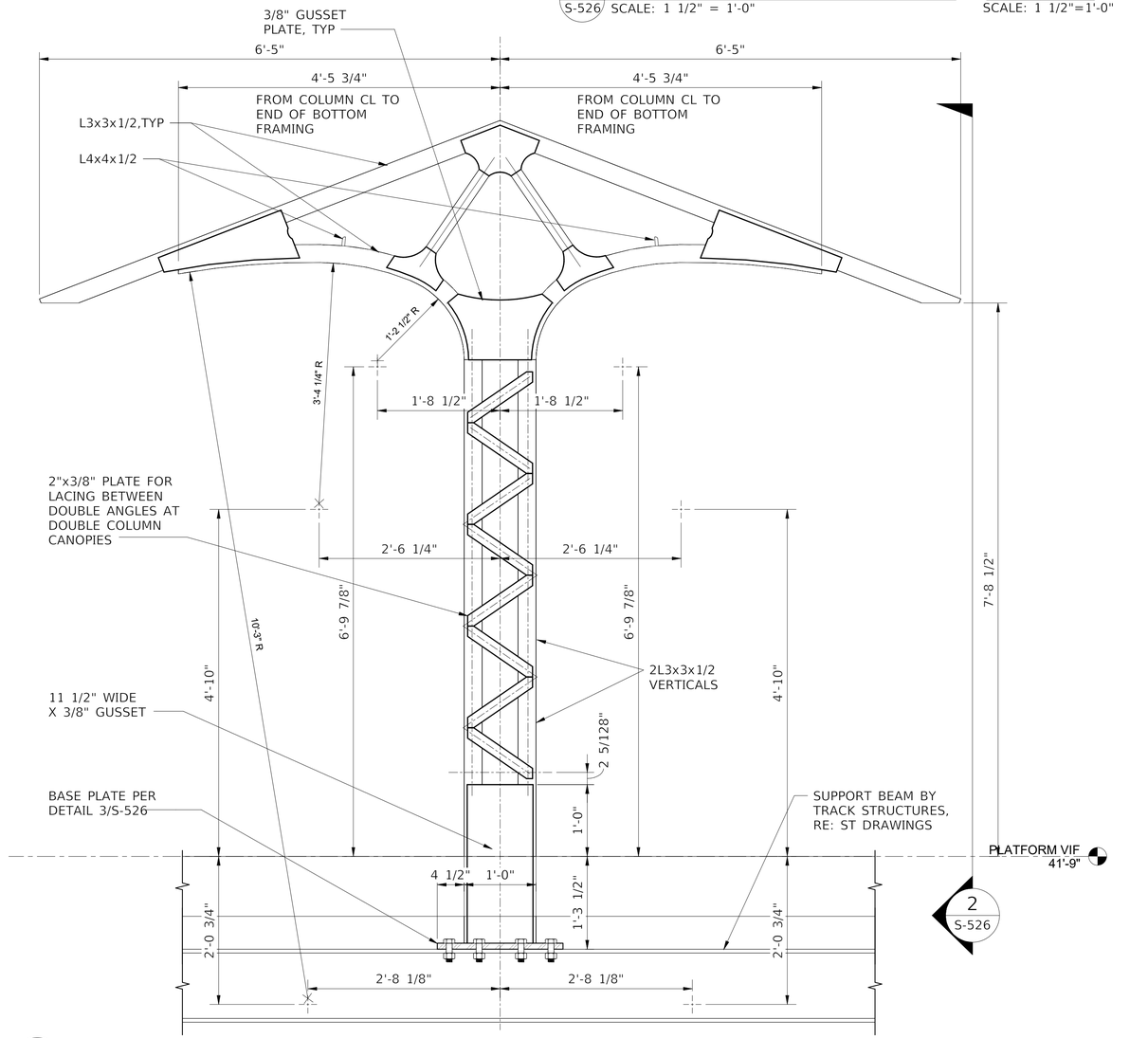
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3 S-526 BASE PLATE DETAIL
SCALE: 1 1/2" = 1'-0"

0 6" 1'
SCALE: 1 1/2"=1'-0"





2 S-526 CANOPY DOUBLE COLUMN DETAIL 2
SCALE: 1" = 1'-0"

0 1' 2'
SCALE: 1"=1'-0"

1 S-526 CANOPY DOUBLE COLUMN DETAIL OUTBOUND SIDE
SCALE: 1" = 1'-0"

0 1' 2'
SCALE: 1"=1'-0"

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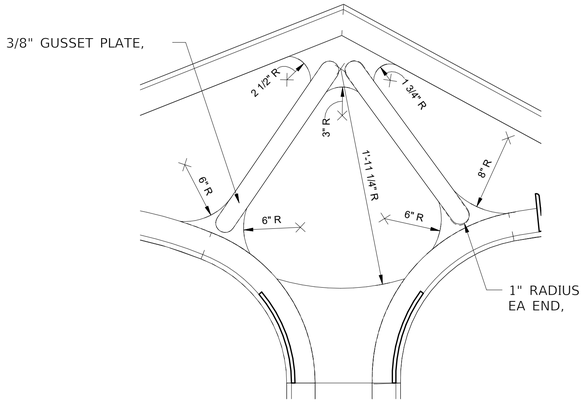
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STRUCTURAL FRAMING DETAILS - DOUBLE CANOPY COLUMN

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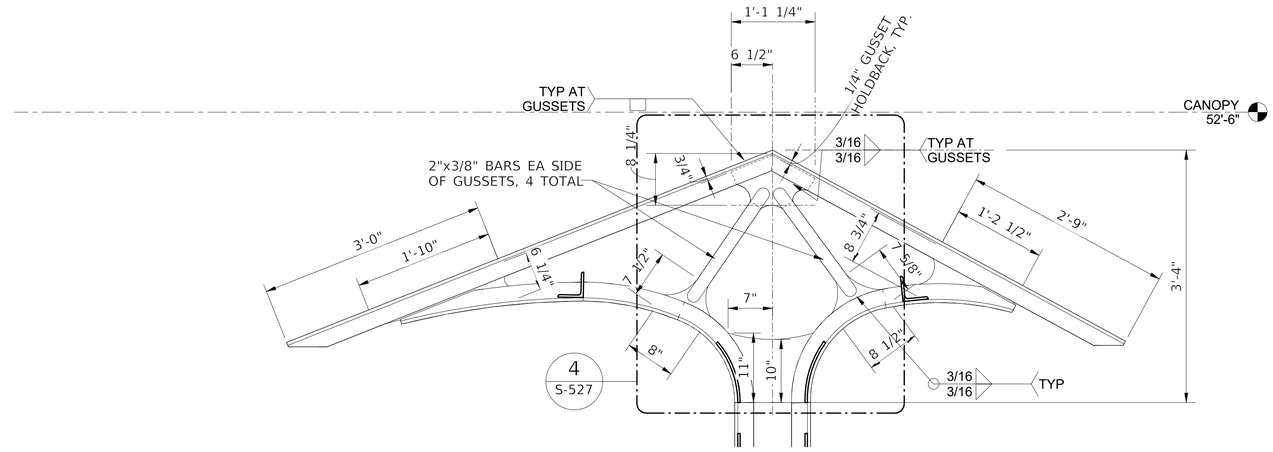
VOLUME: 1 OF 1

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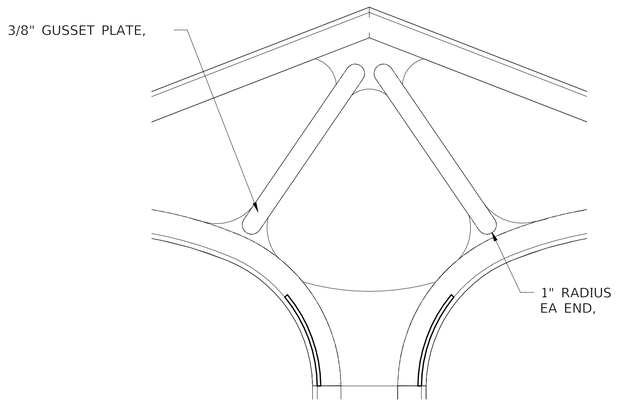
4 S-527 DOUBLE COLUMN CANOPY SHORT SIDE GUSSET DETAIL
SCALE: 1 1/2" = 1'-0"

0 6" 1'
SCALE: 1 1/2"=1'-0"



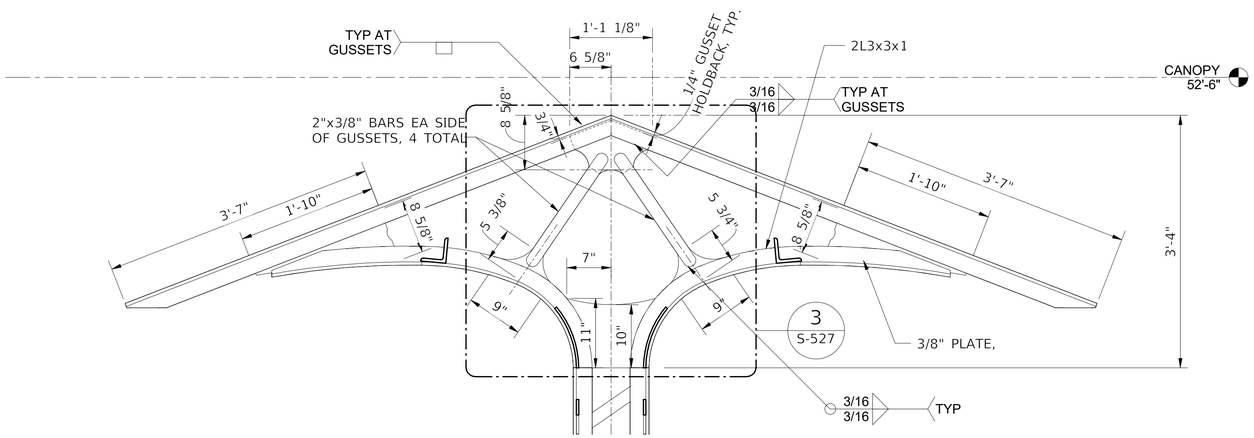
2 S-527 DOUBLE COLUMN CANOPY SHORT SIDE FRAMING DETAIL
SCALE: 1" = 1'-0"

0 1' 2'
SCALE: 1"=1'-0"



3 S-527 DOUBLE COLUMN CANOPY GUSSET DETAIL
SCALE: 1 1/2" = 1'-0"

0 6" 1'
SCALE: 1 1/2"=1'-0"



1 S-527 DOUBLE COLUMN CANOPY FRAMING DETAIL
SCALE: 1" = 1'-0"

0 1' 2'
SCALE: 1"=1'-0"

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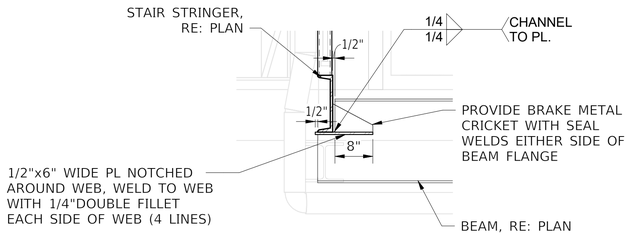
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STRUCTURAL FRAMING DETAILS - DOUBLE CANOPY COLUMN

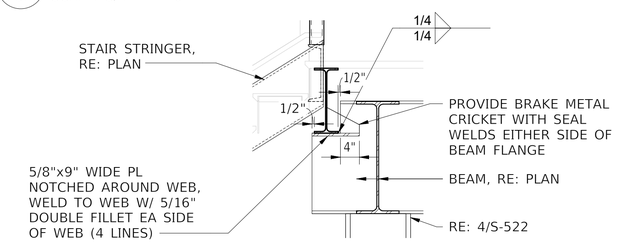
LSCAL
VOLUME: 1 OF 1

S-527

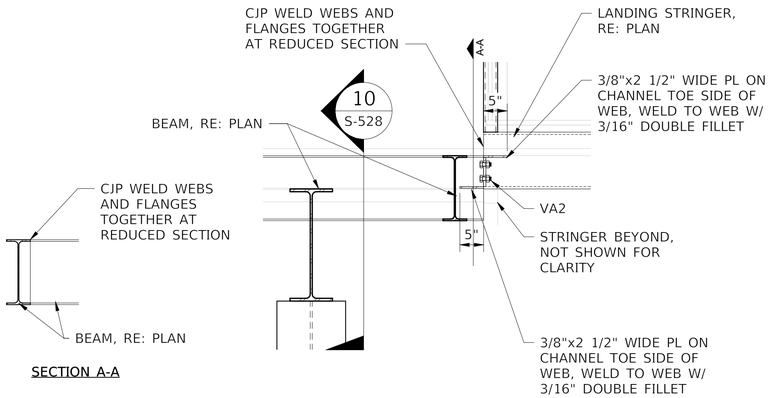
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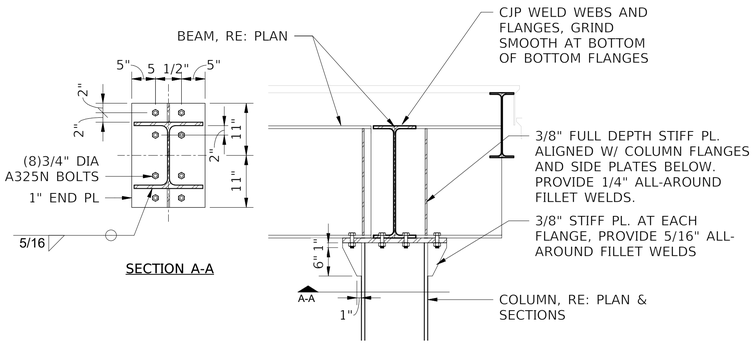
11 CHANNEL TO LOW WF
S-528 SCALE: 3/4" = 1'-0"



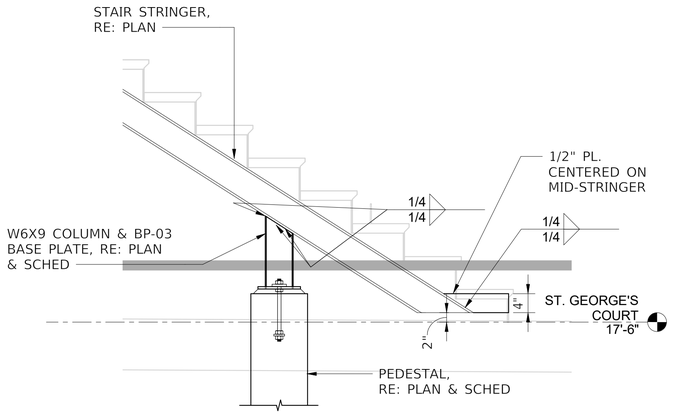
10 BEAM SUPPORT TRANSITION AT MIDDLE LANDING
S-528 SCALE: 3/4" = 1'-0"



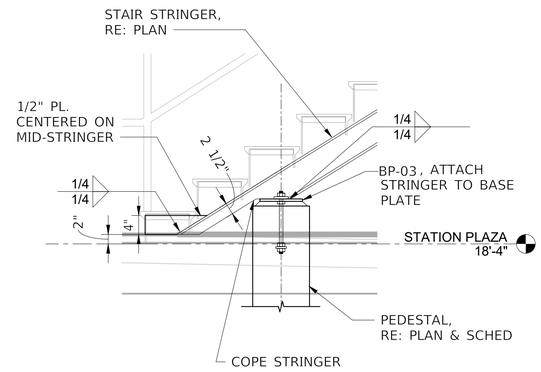
9 STRINGER TRANSITION AT MIDDLE LANDING
S-528 SCALE: 3/4" = 1'-0"



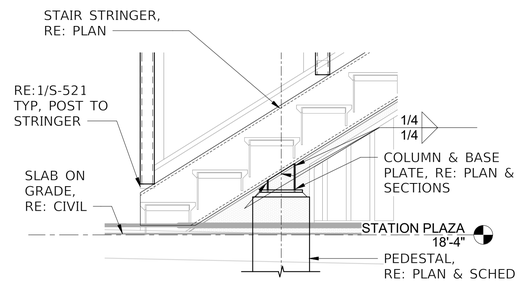
8 HAMMERHEAD BEAM TO COLUMN CONNECTION
S-528 SCALE: 3/4" = 1'-0"



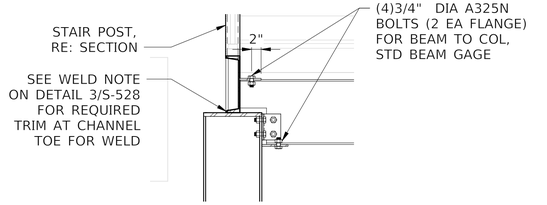
7 LOWER MIDDLE STRINGER CONNECTION
S-528 SCALE: 3/4" = 1'-0"



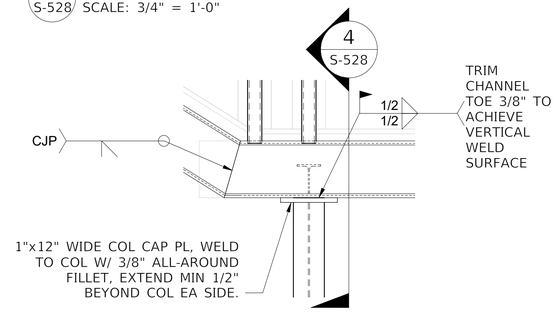
6 LOWER MID STRINGER CONN DETAIL
S-528 SCALE: 3/4" = 1'-0"



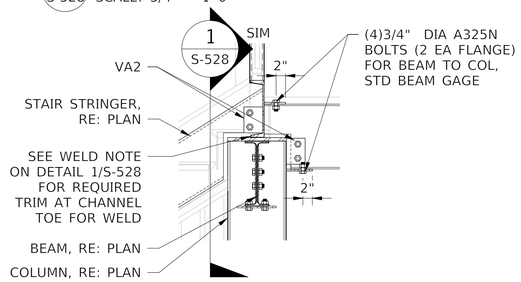
5 LOWER TYPICAL STRINGER CONN DETAIL
S-528 SCALE: 3/4" = 1'-0"



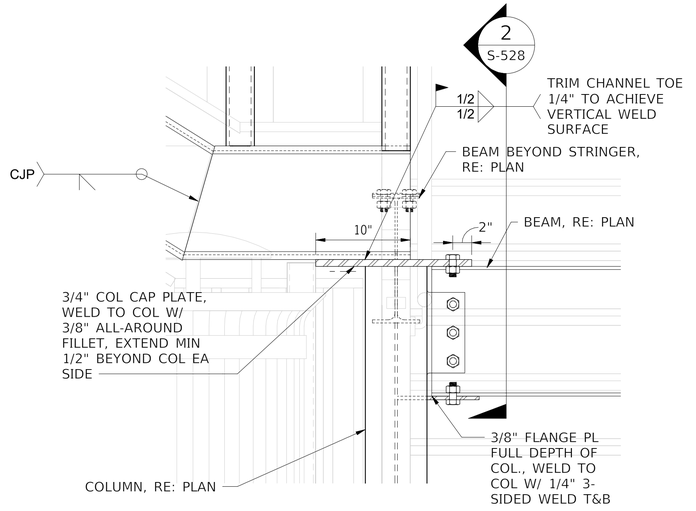
4 BEAM TO COLUMN AT LOW LANDING
S-528 SCALE: 3/4" = 1'-0"



3 STRINGER TO COLUMN AT LOW LANDING
S-528 SCALE: 3/4" = 1'-0"



2 BEAM TO COLUMN AT LOW LANDING
S-528 SCALE: 3/4" = 1'-0"



1 STRINGER TO COLUMN AT LOW LANDING
S-528 SCALE: 1 1/2" = 1'-0"

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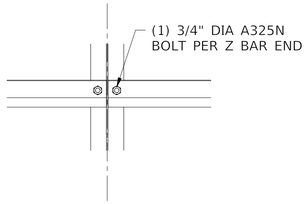
LSCAL

S-528

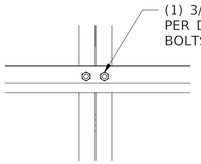
VOLUME: 1 OF 1

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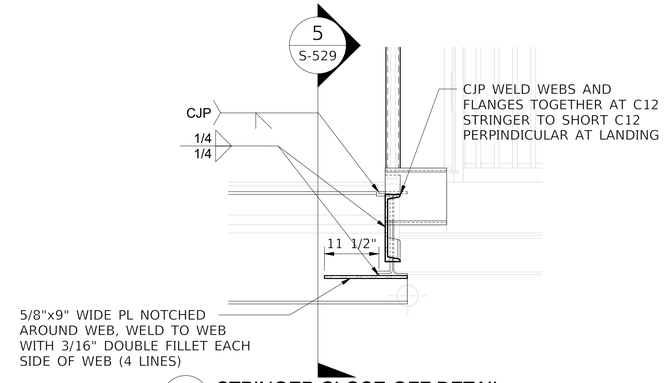
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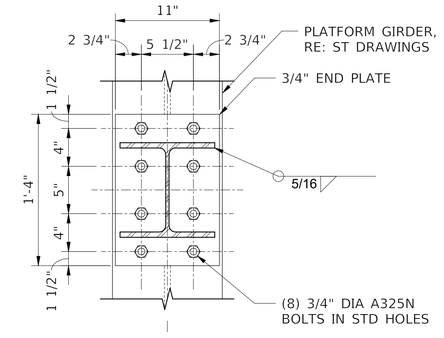
10 TYP SIMPLE SPAN Z BAR TO COLUMN
S-529 SCALE: 1" = 1'-0"



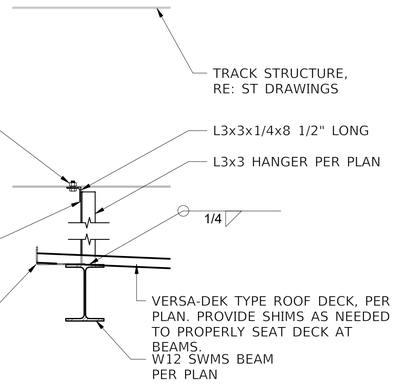
9 Z BAR TO COLUMN FOR CANTILEVER
S-529 SCALE: 1" = 1'-0"



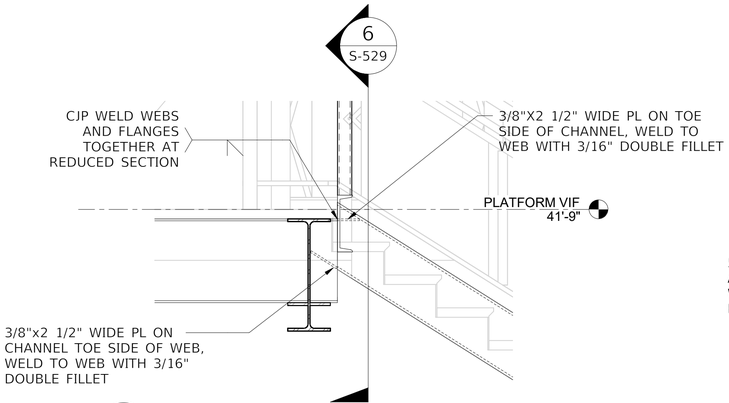
6 STRINGER CLOSE-OFF DETAIL
S-529 SCALE: 3/4" = 1'-0"



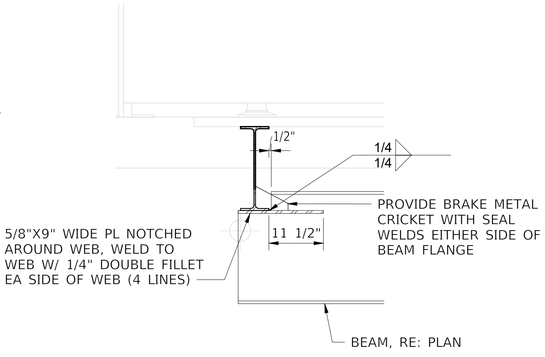
3 COLUMN CONNECTION TO PLATFORM SUPPORT
S-529 SCALE: 1 1/2" = 1'-0"



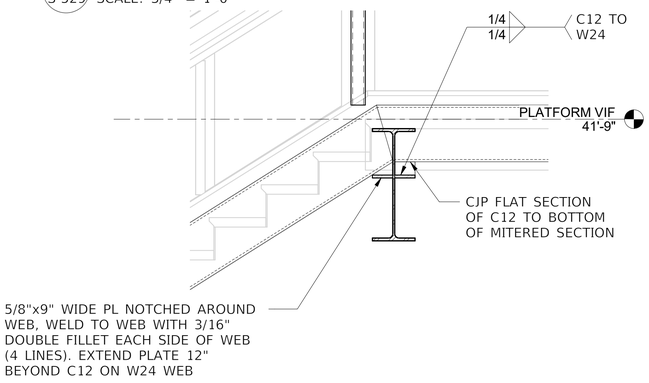
8 SWMS HANGER DETAIL
S-529 SCALE: 3/4" = 1'-0"



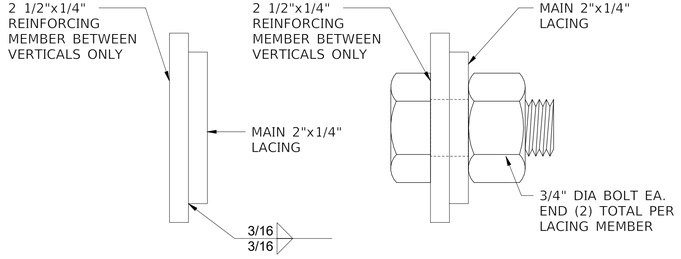
5 STRINGER TRANSITION AT HIGH LANDING
S-529 SCALE: 3/4" = 1'-0"



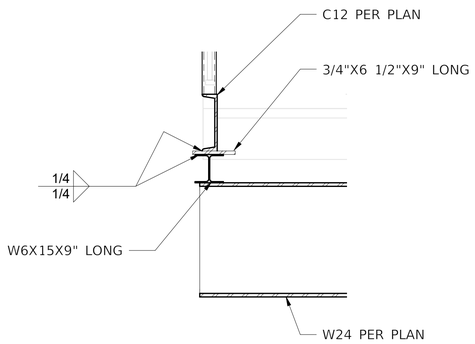
2 W18 TO LOW W24
S-529 SCALE: 3/4" = 1'-0"



7 STRINGER TRANSITION AT HIGH LANDING
S-529 SCALE: 3/4" = 1'-0"



4 CANOPY LACING MEMBER REINF DETAIL
S-529 SCALE: 12" = 1'-0"



1 STRINGER TO LOW W24 CONNECTION
S-529 SCALE: 3/4" = 1'-0"

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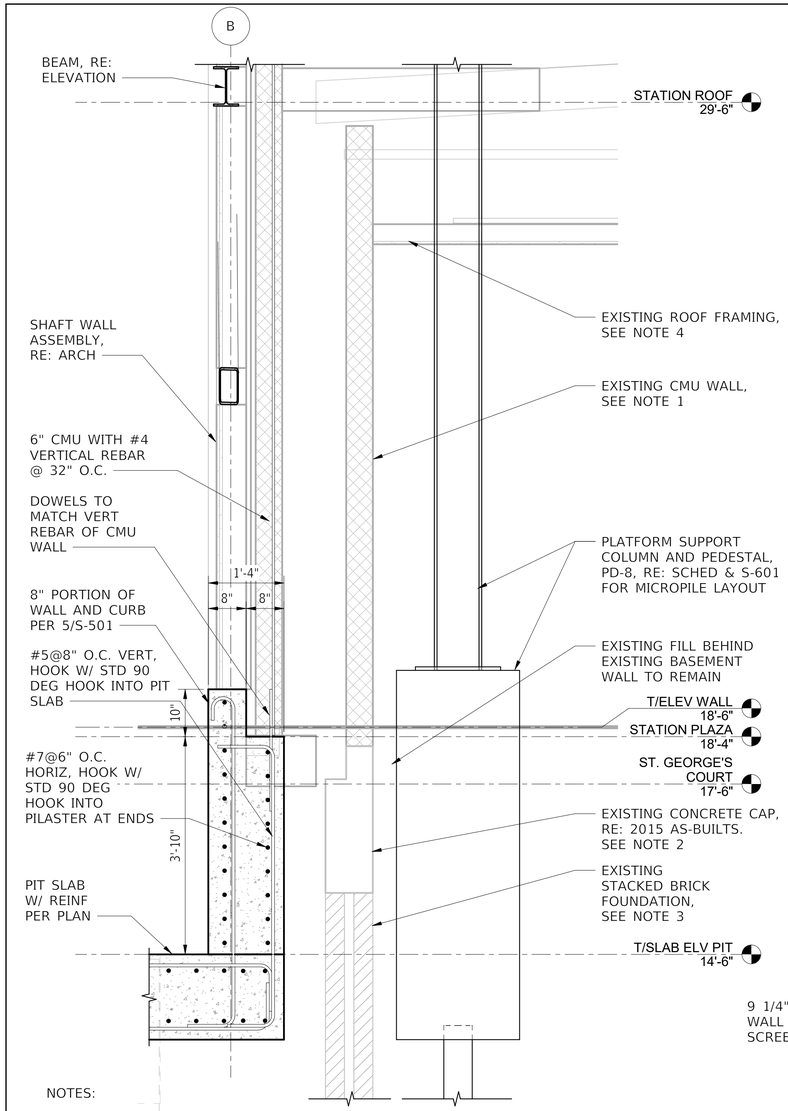
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VOLUME: 1 OF 1

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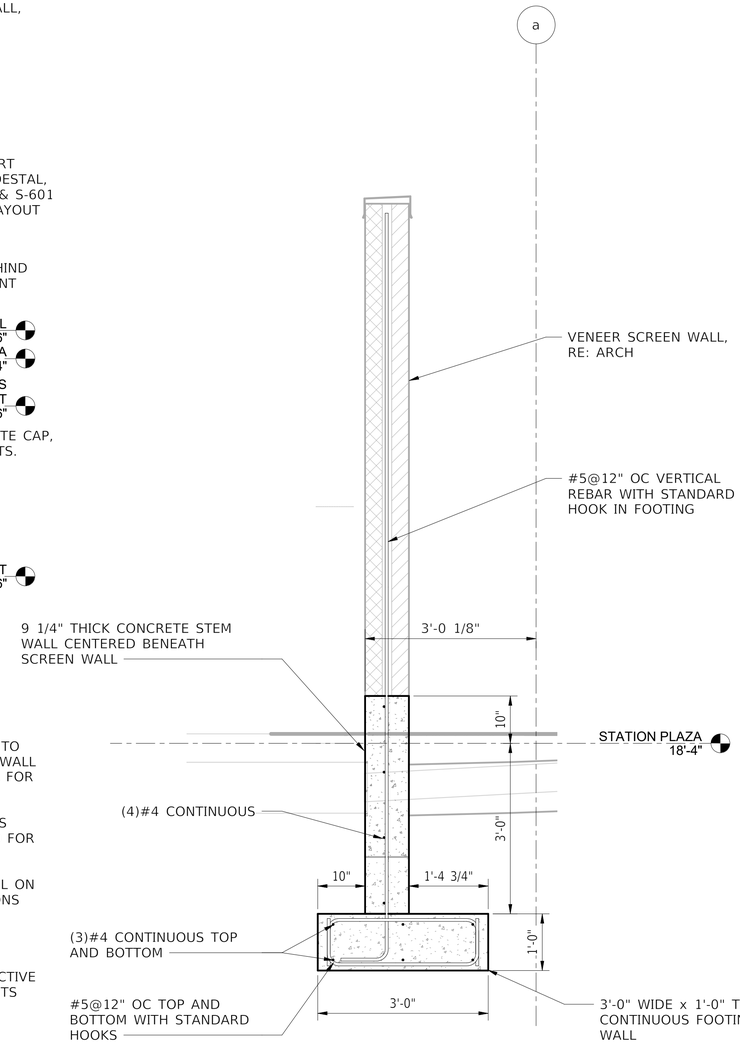
1. DEMOLISH EXISTING CMU WALL AS NEEDED TO INSTALL NEW COLUMN AND PEDESTAL, REFER TO 4/AD-201. DOCUMENT EXTENTS TO BE DEMOLISHED PER KEYNOTE 34 ON S-102. DEMOLISHED WALL TO BE REBUILT TO 2015 AS-BUILTS, SUBMIT DEMOLISHED EXTENTS TO STRUCTURAL ENGINEER FOR SPECIFIC REINFORCEMENT REQUIREMENTS FOR REBUILT WALL.

2. PROTECT EXISTING CONCRETE CAP DURING DEMOLITION AND EXCAVATION ACTIVITIES. DOWELS FOR CMU WALL TO BE PROTECTED TO REDUCE AMOUNT OF POST-INSTALLED DOWELS NEEDED FOR REBUILT WALL PER NOTE 1.

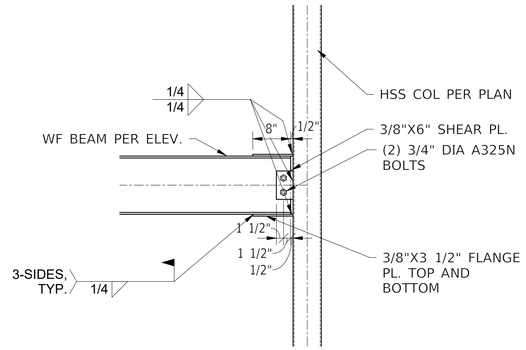
3. PROTECT EXISTING STACKED BRICK FOUNDATION DURING DEMOLITION ACTIVITIES. SOIL/GRAVEL ON EITHER SIDE OF THE WALL SHALL NOT BE UNBALANCED BY MORE THAN 2'-0" AT ANY LOCATIONS NOT SHORED WITH SHEET PILING. IF ANY DAMAGE IS OBSERVED OR OCCURS SUBMIT DOCUMENTATION OF LOCATION AND EXTENTS TO STRUCTURAL ENGINEER FOR REVIEW AND DIRECTION.

4. GENERAL CONTRACTOR TO SHORE EXISTING ROOF FRAMING AS NEEDED TO ALLOW FOR SELECTIVE DEMOLITION TO MANUEVER NEW PLATFORM SUPPORT COLUMN INTO PLACE. DOCUMENT EXTENTS OF ANY FRAMING BEING CUT OR PERMANENTLY REMOVED FOR NEW COLUMN AND SUBMIT TO STRUCTURAL ENGINEER FOR REVIEW AND DIRECTION FOR SUPPORT OF PERMANENT ROOFING. REFER TO KEYNOTE 34 ON S-102, 7/AD-201, AND 2015 AS-BUILTS. REFER TO STRUCTURAL SHORING SPECIFICATION (31 15 00), GEOTECHNICAL INSTRUMENTATION/ MONITORING SPECIFICATION (31 09 13), AND VIBRATION MONITORING PROTOCOL SPECIFICATION (02 22 13) FOR FURTHER REQUIREMENTS.

5 S-530 ELEVATOR PIT WALL ALONG EXISTING STATION HOUSE
SCALE: 3/4" = 1'-0"

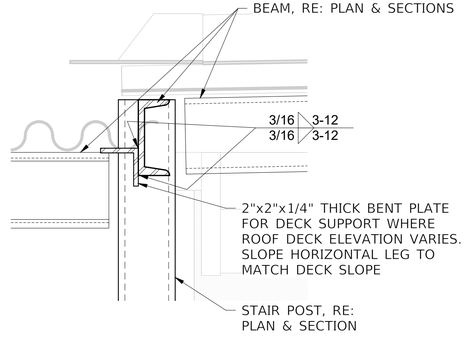


4 S-530 ALLEY WALL FOUNDATION DETAIL
SCALE: 3/4" = 1'-0"



3 S-530 W12 FIELD WELD MOMENT CONNECTION
SCALE: 3/4" = 1'-0"

2 S-530 W14 OVER W24 AT MIDDLE LANDING
SCALE: 3/4" = 1'-0"



1 S-530 STAIR ROOF CONNECTION DETAIL
SCALE: 3" = 1'-0"

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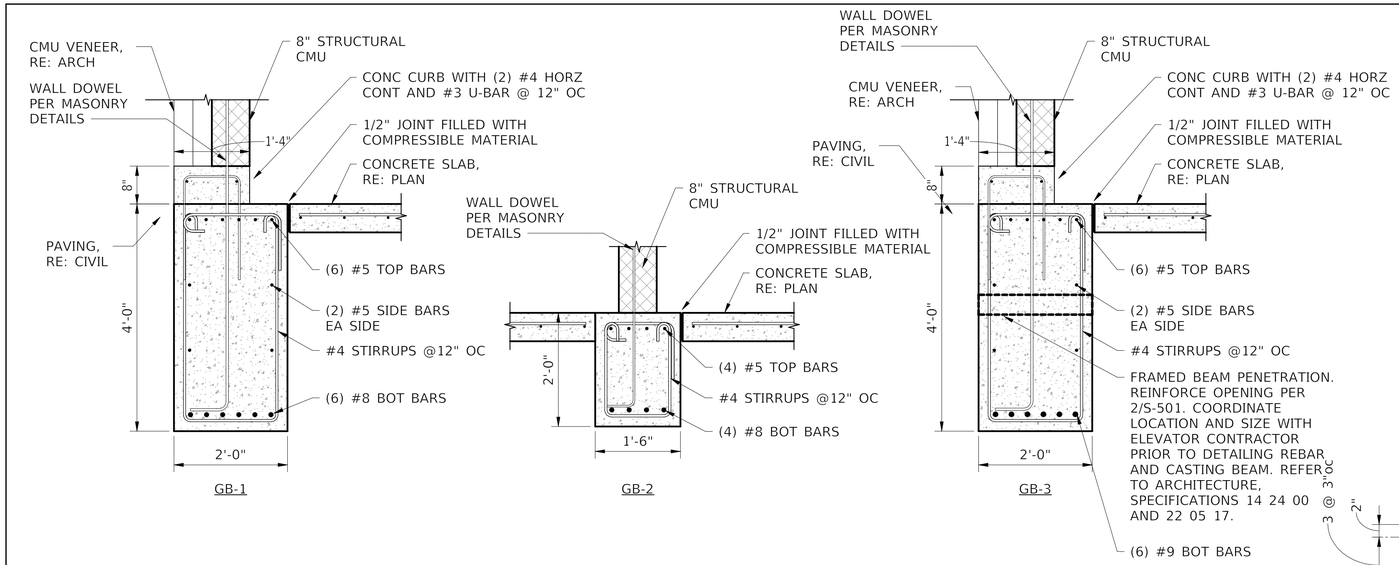
PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	C. MIDKIFF
CHECKED BY	N. HUNT
DESIGNED BY	C. MIDKIFF
DRAWN BY	C. BRYANT

MARK	DATE	DESCRIPTION
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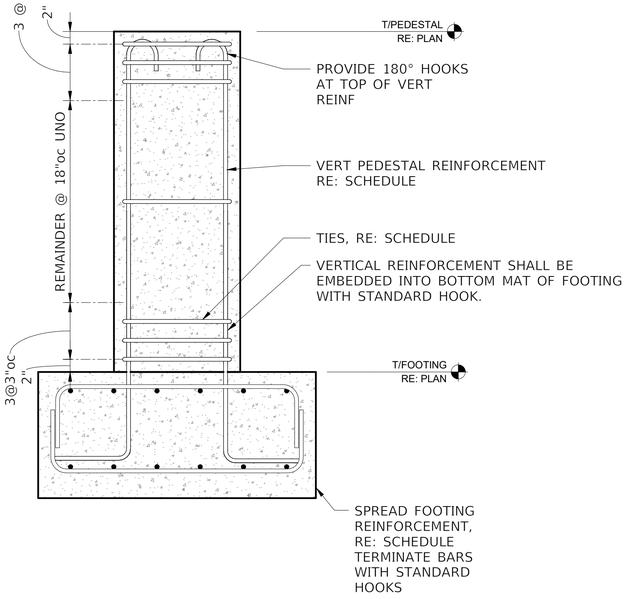
STRUCTURAL FRAMING DETAILS

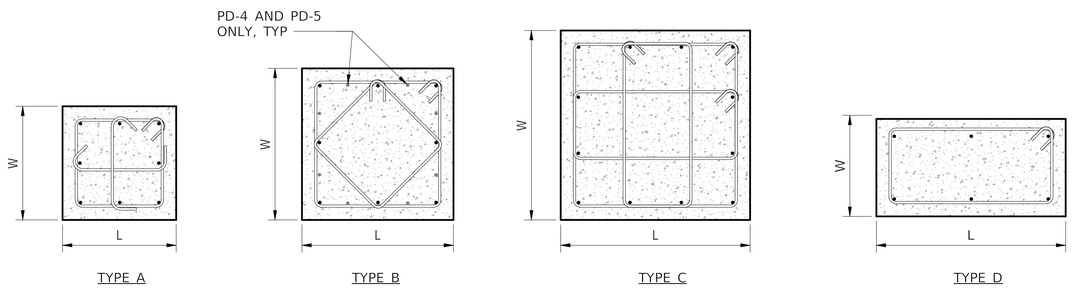
LSCAL S-530
VOLUME: 1 OF 1

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3 GRADE BEAM DETAILS
S-600 SCALE: 3/4" = 1'-0"





PEDESTAL / PILASTER SCHEDULE

MARK	TYPE	WIDTH "W"	LENGTH "L"	VERTICAL REINF	TIES	REMARKS
PD-1	D	1'-0"	1'-6"	(6) #6	#3@12" OC	(3)#3 TIES @ 3" OC TOP & BOTTOM
PD-3	C	2'-6"	2'-6"	(12) #8	#4@12" OC	(5)#4 TIES @ 3" OC TOP & BOTTOM
PD-4	B	2'-2"	2'-3"	(16) #8	#3@12" OC	(3)#4 TIES @ 3" OC TOP & BOTTOM. PROVIDE HORIZONTAL MAT OF #3@6" OC EACH WAY AT TOP OF PEDESTAL WITH ALL BARS TERMINATING IN STD HOOKS DOWN INTO PEDESTAL
PD-5	B	2'-1"	2'-5"	(16) #8	#3@12" OC	(3)#3 TIES @ 3" OC TOP & BOTTOM. PROVIDE HORIZONTAL MAT OF #3@6" OC EACH WAY AT TOP OF PEDESTAL WITH ALL BARS TERMINATING IN STD HOOKS DOWN INTO PEDESTAL
PD-6	B	2'-2"	1'-6"	(8) #8	#3@12" OC	(3)#3 TIES @ 3" OC TOP & BOTTOM
PD-7	A	1'-0"	1'-0"	(4) #6	#3@12" OC	(3)#3 TIES @ 3" OC TOP & BOTTOM, NO CROSS-TIES
PD-8	A	2'-2"	2'-2"	(8) #8	#3@12" OC	(3)#3 TIES @ 3" OC TOP & BOTTOM

NOTE: FOR PEDESTALS SUPPORTED ON MICROPILES, SEE MICROPILE DIAGRAM AND DELEGATED DESIGN INFORMATION ON

SPREAD FOOTING SCHEDULE

TYPE	QUANTITY	SIZE WIDTH	SIZE LENGTH	SIZE THICKNESS	REMARKS
F-2.5	1	2'-6"	2'-6"	2'-0"	(4)#6 EA WAY TOP & BOTTOM
F-3B	2	3'-0"	3'-0"	2'-0"	(4)#6 EA WAY TOP & BOTTOM, THIS FOOTING IS TO BE ECCENTRIC 12" TOWARD TRACK CENTER FROM COLUMN CENTERLINE
F-4.25	3	4'-3"	4'-3"	2'-0"	(6) #6 EA WAY TOP & BOTTOM
F-6.5	2	6'-6"	6'-6"	2'-0"	(8)#8 EA WAY TOP & BOTTOM
F-7	2	7'-0"	7'-0"	2'-0"	(8) #8 EA WAY TOP & BOTTOM
F-8.25x5	2	5'-0"	8'-3"	2'-0"	(12)#6 TOP & BOTTOM SHORT DIRECTION, (6)#6 TOP & BOTTOM LONG DIRECTION, THIS FOOTING IS TO BE ECCENTRIC 24" TOWARD TRACK CENTER FROM COLUMN CENTERLINE
F-8x4	2	4'-0"	8'-0"	2'-0"	(12) #6 TOP & BOTTOM SHORT DIRECTION, (6) #6 TOP AND BOTTOM LONG DIRECTION
F-9	4	9'-0"	9'-0"	2'-0"	(9) #8 EA WAY TOP & BOTTOM

1 PILASTER AND SPREAD FOOTING SCHEDULE AND DIAGRAM
S-600 SCALE: 1" = 1'-0"

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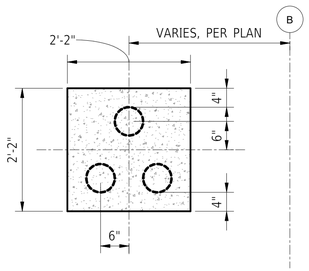
VOLUME: 1 OF 1

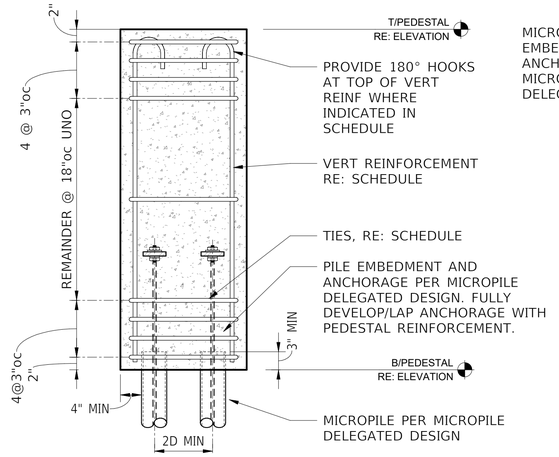
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WATER TRAY REACTIONS AT HANGER SUPPORTS			
	DEAD	SNOW	WIND
LOCATION	Y (K)	Y (K)	Y (K)
GL a	0.57	1.15	+0.39, -0.96
GL a.5	0.57	1.15	+0.39, -0.96
GL b	1.08	2.16	+0.72, -1.8
GL e	0.97	1.94	+0.65, -1.6

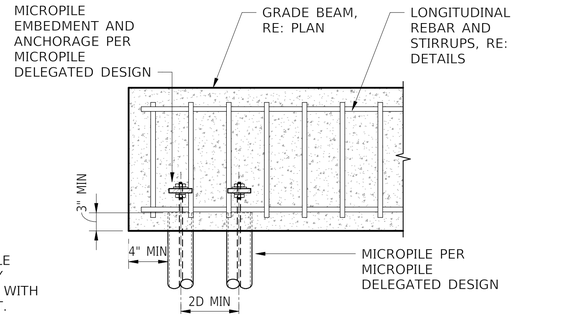
NOTES:
1. DEAD, LIVE, AND SNOW LOADS ARE SERVICE LEVEL LOADS
2. WIND LOADS ARE STRENGTH LEVEL PER ASCE 7 AND DO NOT INCLUDE 0.6 FACTOR TO REDUCE TO SERVICE LEVEL
3. WIND UPLIFT MAGNITUDES REFLECT THE TOTAL WIND UPLIFT PRESSURE, NOT A NET UPLIFT
4. Y AXIS IS VERTICAL REACTION WITH A POSITIVE NUMBER REPRESENTING DOWNWARD LOAD (UPWARD REACTION)

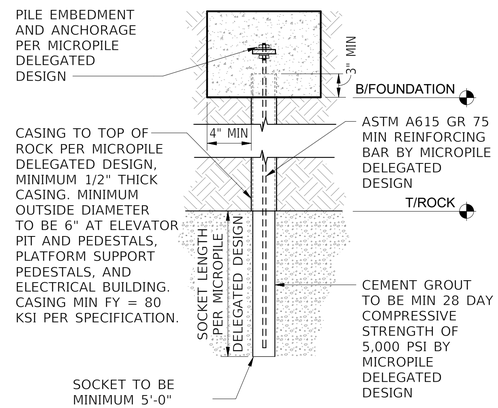
2 SWMS REACTIONS
S-601 SCALE: 1 1/2" = 1'-0"





NOTES:
1. REFER TO GENERAL NOTES, GEOTECHNICAL REPORT, AND SPECIFICATIONS FOR MICROPILE REQUIREMENTS.
2. MICROPILE AXIAL CAPACITY TO BE 50 TON MINIMUM IN BOTH TENSION AND COMPRESSION. MICROPILE LATERAL CAPACITY TO BE 3 TON MINIMUM.
3. REQUIRED MICROPILE AXIAL CAPACITY IS BASED ON NON-BATTERED PILES. IF BATTERED PILES ARE USED TO RESOLVE THE NECESSARY LATERAL CAPACITY AS AN AXIAL LOAD, AXIAL CAPACITY WILL NEED TO BE INCREASED ACCORDINGLY. ALL PILES MUST TERMINATE WITHIN CTA PROPERTY LINE.
4. CARE SHALL BE TAKEN TO AVOID ALL UNDERGROUND UTILITIES AND EXISTING FOUNDATIONS OF REMAINING STRUCTURES.
5. REFER TO PLANS FOR ASSUMED ORIENTATION AND SPACING OF MICROPILES





1 PD-08 TYPICAL MICROPILE LAYOUT
S-601 SCALE: 3/4" = 1'-0"

3 MICROPILE DIAGRAM
S-601 SCALE: 1" = 1'-0"

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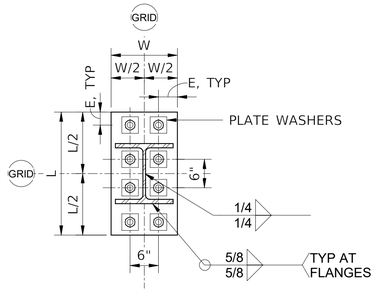
MARK	DATE	DESCRIPTION
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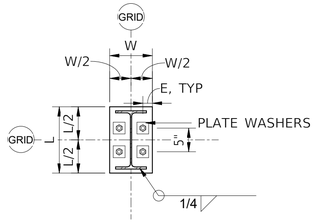
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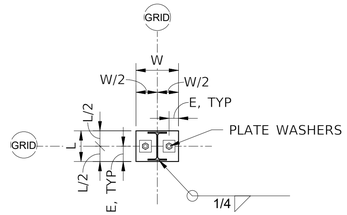
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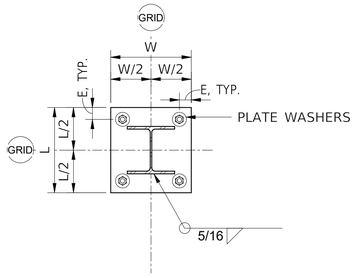
BP-01



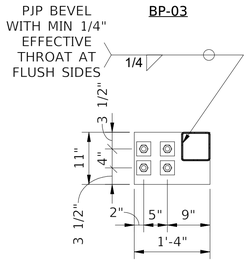
BP-02



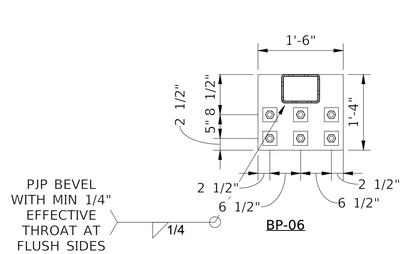
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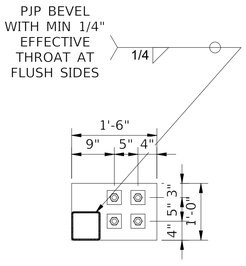
BP-04



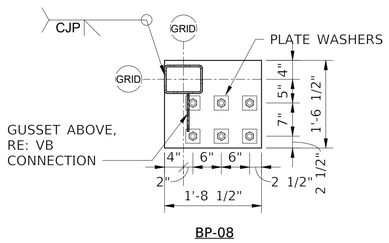
BP-05



BP-06

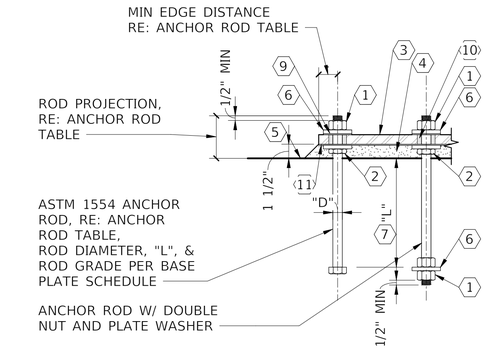


BP-07



BP-08

1 BASE PLATE TYPES
S-620 NOT TO SCALE



NOTE: ISOLATION PAD, WASHERS, AND BUSHINGS SHALL ACCOMODATE MINIMUM 10KSI COMPRESSION.
AT BASE PLATES BEING CAST BELOW CONCRETE SLAB (ELEVATOR AND PLATFORM COLUMNS) PROVIDE NON-CONDUCTIVE COATING AROUND STEEL TO BE CAST IN CONCRETE TO PREVENT CONDUCTION BETWEEN CONCRETE AND STEEL COLUMN/BASE PLATE.

ANCHOR ROD TABLE				
ANCHOR ROD DIAMETER	3/4"	1"	5/8"	1/2"
BASE PLATE HOLE DIAMETER	1 5/16"	1 7/8"	1 3/16"	1 1/16"
E, MINIMUM EDGE DISTANCE	2"	2 1/2"	1 1/4"	1"
WASHER HOLE DIAMETER	15/16"	1 1/16"	11/16"	9/16"
WASHER WIDTH/DIAMETER	2 1/2"	3"	2"	1 3/4"
WASHER PLATE THICKNESS	3/8"	3/8"	1/4"	1/4"
PROJECTION	6"	6"	5 1/2"	5"

2 STANDARD ANCHOR ROD DETAIL
S-620 NOT TO SCALE

1. HEAVY HEX A563 NUT.
2. LEVELING NUT AND WASHER PER STEEL ERECTOR.
3. BASE PLATE, RE: BASE PLATE SCHEDULE FOR SIZE. HOLE SIZE PER ANCHOR ROD TABLE.
4. GROUT SOLID BELOW BASE PLATE WITH NON-SHRINK GROUT.
5. TOP OF CONCRETE (FOOTING, PILE CAP, OR PILASTER).
6. PLATE WASHER, A572 GRADE 50. THICKNESS PER ANCHOR ROD TABLE. SQUARE OR CIRCULAR SHAPES ACCEPTABLE UNLESS SPECIFICALLY NOTED. WASHER SIZE (DIAMETER OR WIDTH) PER ANCHOR ROD TABLE. HOLE SIZE PER ANCHOR ROD TABLE.
7. ANCHOR ROD LENGTH "L" PLACED IN PEDESTAL OR FOOTING, PER BASE PLATE SCHEDULE.
8. HEADED ROD MAY BE SUBSTITUTED WITH THREADED EMBEDDED END AND HEAVY HEX A563 NUT. WHERE DESIGNATED AS PLATE WASHER ON DRAWINGS, PROVIDE PLATE WASHER AND NUTS AS SHOWN.
9. PROVIDE INSULATING FABRIC WASHER BENEATH PLATE WASHER, NO WELD OF PLATE WASHER TO BASE PLATE.
10. PROVIDE HIGH STRENGTH , LOW DEFORMABILITY INSULATING FABRIC BUSHING AT ANCHOR ROD HOLE IN BASE PLATE. INNER DIAMETER TO MATCH ANCHOR ROD, OUTER DIAMETER TO MATCH BASE PLATE HOLE.
11. PROVIDE 1/2" INSULATING FABRIC PAD BELOW STEEL BASE PLATE.

BASE PLATE SCHEDULE									
MARK	PLATE THICKNESS	PLATE LENGTH	PLATE WIDTH	NUMBER OF ANCHOR RODS	ANCHOR ROD DIAMETER	ANCHOR ROD GRADE	HEADED ROD OR DOUBLE NUT WITH PLATE WASHER	ANCHOR ROD EMBEDMENT	REMARKS
BP-01	2"	2'-2"	1'-4"	8	1"	F1554-105	DOUBLE NUT W/WASHER	1'-2"	
BP-02	1/2"	1'-2"	9"	4	3/4"	F1554-36	DOUBLE NUT W/WASHER	8"	
BP-03	1/2"	6 1/2"	9"	2	3/4"	F1554-36	DOUBLE NUT W/WASHER	8"	
BP-04	3/4"	1'-6"	1'-5"	4	1"	F1554-105	DOUBLE NUT W/WASHER	1'-2"	ROUND WASHER PLATES REQUIRED ABOVE BASE PLATE
BP-05	2"	11"	1'-4"	4	1"	F1554-105	DOUBLE NUT W/WASHER	2'-0"	
BP-06	2"	1'-6"	1'-4"	6	1"	F1554-105	DOUBLE NUT W/WASHER	2'-0"	
BP-07	2"	1'-0"	1'-6"	4	1"	F1554-105	DOUBLE NUT W/WASHER	2'-0"	
BP-08	2"	1'-8 1/2"	1'-6 1/2"	6	1"	F1554-105	DOUBLE NUT W/WASHER	2'-0"	

NOTES:

1. FOR ANCHOR ROD TYPICAL DETAIL INCLUDING EMBEDMENT AND PROJECTION REQUIREMENTS, RE: "STANDARD ANCHOR ROD DETAIL" ON THIS SHEET.
2. DO NOT WELD FILLET RADIUS OR END OF COLUMN FLANGE.
3. FOR ANCHOR RODS DESIGNATED AS PLATE WASHER IN BASE PLATE SCHEDULE, PROVIDE AN EMBEDDED PLATE WASHER AS INDICATED ON "STANDARD ANCHOR ROD DETAIL" ON THIS SHEET.
4. ALL BASE PLATES TO HAVE STEEL PLATE WASHERS AT ALL ANCHOR RODS, WHEN OVERSIZED HOLES PER "STANDARD ANCHOR ROD DETAIL" ARE USED AT THE BASE PLATE. STEEL WASHERS TO BE FIELD WELDED TO THE BASE PLATE.
5. "W" = BASE PLATE WIDTH.
6. "L" = BASE PLATE LENGTH.
7. "E" = ANCHOR ROD MINIMUM EDGE DISTANCE PER "STANDARD ANCHOR ROD DETAIL".
8. AT ASYMMETRIC BASE PLATES, REFER TO PLAN FOR COLUMN AND BASE PLATE ORIENTATION.

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ENGINEERING

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LOGAN SQUARE LINE - CALIFORNIA STATION
ALL STATIONS ACCESSIBILITY PROGRAM
2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	C. MIDKIFF
CHECKED BY	N. HUNT
DESIGNED BY	C. MIDKIFF
DRAWN BY	C. BRYANT

MARK	DATE	DESCRIPTION
0	12/30/2024	ISSUED FOR BID

BASE PLATE SCHEDULE

LSCAL | S-620
VOLUME: 1 OF 1

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GENERAL NOTES

1. THE CONTRACTOR WILL NOTIFY THE AUTHORITY OF ANY UNFORESEEN CONDITIONS FOR RESOLUTION PRIOR TO PROCEEDING WITH THE WORK.

2. ALL DETAILS, SECTIONS, AND NOTES ON THE DRAWINGS ARE INTENDED TO BE TYPICAL WHERE CONDITIONS ARE SIMILAR TO THOSE INDICATED BY DETAIL OR DETAIL TITLE OR NOTE.

3. USE ONLY DIMENSIONS INDICATED ON THE DRAWINGS. DO NOT SCALE DRAWINGS OR USE ANY DIMENSIONS FROM ELECTRONIC DRAWING FILES.

4. VERTICAL DATUM FOR THIS PROJECT IS CITY OF CHICAGO DATUM (CCD).

5. ASSUME EQUAL SPACING BETWEEN ESTABLISHED DIMENSIONS, IF NOT INDICATED ON DRAWINGS.

6. CENTERLINES OF COLUMN AND FOUNDATIONS COINCIDE WITH GRID LINE INTERSECTIONS, UNLESS OTHERWISE NOTED.

7. CENTERLINES OF FRAMING MEMBERS COINCIDE WITH COLUMN CENTERLINES, UNLESS OTHERWISE NOTED.

8. THE SPECIFICATIONS AND DRAWINGS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION, UNLESS OTHERWISE NOTED.

9. REFER TO THE TECHNICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION AND COORDINATION OF THE WORK.

10. SHOP DRAWINGS PREPARED BY THE SUBCONTRACTORS, SUPPLIERS, ETC. SHALL BE REVIEWED BY THE AUTHORITY FOR CONFORMANCE WITH DESIGN CONCEPT ONLY. GENERAL CONTRACTOR IS RESPONSIBLE FOR SHOP DRAWING COMPLIANCE WITH CONTRACT DOCUMENTS.

11. CONSTRUCTION SCAFFOLDING SHALL BE ERECTED OVER SIDEWALKS WHEN WORKING OVERHEAD.

12. EXISTING AND NEW UTILITIES SHALL BE PROTECTED BY MEANS OF BRACING AND SUPPORTING THE UTILITIES PROPERLY TO PREVENT DAMAGE, DISPLACEMENT, OR CHANGE TO THE UTILITIES.

13. THE AUTHORITY IS RESPONSIBLE FOR THE INTEGRITY OF THE EXISTING STRUCTURE GIVEN THE LOADING APPLIED FROM THE PLATFORM EXTENSION AND ELEVATOR FRAMING RECONSTRUCTION SCOPE OF WORK SHOWN IN THE DRAWINGS AND THE ASSOCIATED SECTIONS AND DETAILS.

14. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS.

HAZARDOUS WORK MATERIALS

1. THE CONTRACTOR IS WARNED OF THE PRESENCE OF AN ELECTRIFIED CONTACT RAIL (600 VOLTS DC) AND MOVING TRAINS ON THE CTA TRACKS AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT INJURY TO PERSONNEL OR DAMAGE TO PROPERTY THROUGH CONTACT WITH ELECTRICAL AND OPERATING SYSTEMS. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT CONTACT WITH ELECTRIFIED CONTACT RAIL, CTA POWER CABLES, OR TRAINS MAY RESULT IN SEVERE BURNS OR DEATH.

2. ELEVATED STRUCTURE IS AT NEGATIVE RAIL POTENTIAL. AVOID CONTACT BETWEEN STRUCTURE AND EARTH GROUNDED OBJECTS SUCH AS EDISON GROUNDS, WATER, PILES, ETC.

DESIGN SPECIFICATIONS

1. AMERICAN RAILWAY ENGINEERING AND MAINTENANCE OF WAY ASSOCIATION (AREMA) MANUAL OF RAILWAY ENGINEERING, LATEST EDITION.

2. CHICAGO TRANSIT AUTHORITY (CTA) INFRASTRUCTURE DESIGN CRITERIA MANUAL, EFFECTIVE MARCH 2020.

3. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) STEEL CONSTRUCTION MANUAL, 16TH EDITION.

4. AMERICAN CONCRETE INSTITUTE (ACI) BUILDING CODE REQUIREMENT FOR REINFORCED CONCRETE (ACI 318-14)

5. 2019 CHICAGO BUILDING CODE (CBC-19)

6. 2018 INTERNATIONAL BUILDING CODE (IBC)

7. AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES 7-16.

DESIGN SPECIFICATIONS

1. TRACK LOADING

DEAD LOAD - STRAIGHT TRACK = 460 PLF PER TRACK
FOOTWALKS = 25 PSF

LIVE LOAD - AS SHOWN ON RAPID TRANSIT DESIGN AXLE LOADS AND SPACING
LIVE LOAD - CENTER FOOTWALK = 200 PSF
IMPACT LOAD - AREMA REQUIREMENTS FOR ROLLING EQUIPMENT WITHOUT HAMMER BLOW
WIND LOAD - TRAIN 300 PLF ON APPLIED 6. FT ABOVE TOP OF RAIL FOR THE FULL LENGTH OF TRAIN
WIND LOAD - STRUCTURE 30 PSF ON 1.5 TIMES THE VERTICAL PROJECTION
LONGITUDINAL LOAD - 200 KIPS ON 1 TRACK PLUS 100 KIPS ON EACH ADDITIONAL TRACK DISTRIBUTED OVER A MAXIMUM LENGTH OF 1200 FEET.

SEE ST-002 FOR DESIGN AXLE LOADS AND SPACING.

2. LIVE LOAD

2.1 CANOPY AND STATION ROOF = 30 PSF
2.2 PEDESTRIAN PLATFORM = 100 PSF
2.3 PLATFORM GUARDRAIL = 75 PLF HORZ, 50 PLF VERT, 200 LBS AT ANY POINT
2.4 STAIR HANDRAIL = 50 PLF HORZ, 50 PLF VERT, 200 LBS AT ANY POINT

3. SNOW LOAD

3.1 FLAT ROOF SNOW LOAD = 30 PSF
3.2 EXISTING STRUCTURE SNOW LOAD = 25 PSF

4. WIND LOAD

4.1 STATION HOUSE MAIN WIND FORCE RESISTING SYSTEM UP TO 200 FT = 20 PSF
4.2 STATION HOUSE COMPONENT AND CLADDING UP TO 200 FT = 30 PSF.
4.3 PLATFORM CANOPY = 40 PSF, IN ANY DIRECTION ON PROJECTED VERTICAL DIMENSIONS

5. SERVICEABILITY

5.2 LIVE LOAD DEFLECTION IS LESS THAN (L/360)
5.3 LONG-TERM TOTAL DEFLECTION IS LESS THAN (L/240)
5.4 LATERAL DRIFT DUE TO WIND LOADS IS LESS THAN OR EQUAL TO CTA IDCM SECTION 7.3.17.D.2

DEMOLITION

1. THE STRUCTURAL CONTRACT DOCUMENTS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL AND MEP DEMOLITION CONTRACT DOCUMENTS.

2. EXISTING FRAMING INFORMATION SHOWN ON THESE DOCUMENTS IS TAKEN FROM:

2.1 STANDARD CENTRAL DOUBLE TRACK STATION PLAN AND SECTIONS BY THE METROPOLITAN WEST SIDE ELEVATED RAILROAD CO. DATED NOV. 19TH, 1892.

2.2 O'HARE BLUE LINE STATION IMPROVEMENTS, DATED AUGUST 18, 2014.

2.3 MET TYPICAL AND SPECIAL STRUCTURE BY THE METROPOLITAN WEST SIDE ELEVATED RAILROAD CO. DATED NOV.19TH, 1892.

2.4 MET K-610 STEEL SHOP DRAWINGS BY KEYSTONE BRIDGE WORKS DATED JUNE 29TH, 1894.

2.5 TOPOGRAPHIC SURVEY OF EXISTING STEEL PLATFORM FRAMING AT CALIFORNIA STATION AND VISUAL OBSERVATION BY THE ENGINEER OF RECORD IN APRIL OF 2022 WAS PERFORMED TO SUPPLEMENT EXISTING STRUCTURAL DRAWINGS.

SAWN LUMBER

1. ALL GRADES OF LUMBER INDICATED ON STRUCTURAL DRAWINGS SHALL BE RATED BY THE SOUTHERN PINE INSPECTION BUREAU (SPIB), OR THE WESTERN WOOD PRODUCTS ASSOCIATION (WWPA). LUMBER GRADES SHALL BE DENSE SELECT STRUCTURAL SOUTHERN YELLOW PINE WITH A MAXIMUM MOISTURE CONTENT OF 19%.

2. BOLT HEADS AND NUTS BEARING ON WOOD SHALL BE PROVIDED WITH STANDARD CUT WASHERS. ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED.

3. MINIMUM NAILED CONNECTIONS FOR WOOD FRAMING MEMBERS SHALL BE IN ACCORDANCE WITH THE LOCAL BUILDING CODE OR TABLE 2304.10.1 OF THE INTERNATIONAL BUILDING CODE IF NO OTHER CRITERIA IS GIVEN.

STRUCTURAL STEEL

1. STRUCTURAL STEEL DETAILS, FABRICATION, AND ERECTION SHALL CONFORM TO THE 16TH EDITION OF THE AISC: "MANUAL OF STEEL CONSTRUCTION" UNLESS OTHERWISE SHOWN OR SPECIFIED.

2. STRUCTURAL STEEL SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION CONFORMING TO ASTM A123, UNLESS OTHERWISE NOTED. ALL STRUCTURAL STEEL MATERIAL SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:

2.0 ASTM A709	TRACK FRAMING STEEL
2.1 ASTM A992, FY = 50KSI	W, WT (INCLUDING PLATFORM FRAMING STEEL)
2.2 ASTM A709	M, S, HP, MC, C, L, MT, ST
2.3 ASTM A53 GR. B	PIPE
2.4 ASTM A500 GR. C, FY = 46KSI	ROUND HSS
2.5 ASTM A500 GR. C, FY = 46KSI	SQUARE & RECTANGULAR HSS
2.6 ASTM A572, FY = 50 KSI	BASE PLATES
2.7 ASTM A709	PLATES EXCEPT BASE PLATES
2.8 ASTM F3125, GRADE A325	BOLTS

3. BOLTS SHALL BE GALVANIZED ASTM A325 7/8" DIAMETER SLIP CRITICAL TYPICAL UNLESS OTHERWISE NOTED, GALVANIZING SHALL BE PER ASTM STANDARD A153. BOLTS TO EXISTING TRACK STRUCTURE COLUMNS SHALL BE GALVANIZED ASTM A325 7/8" DIAMETER SLIP CRITICAL BOLTS

4. REPAIR OF DAMAGED AND UNCOATED AREAS OF GALVANIZED STEEL SHALL CONFORM TO ASTM A780. SUBMIT TO THE AUTHORITY FOR APPROVAL ALL PROPOSED REPAIR WORK.

5. CUTS HOLES (OPENINGS), ETC., REQUIRED IN STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES SHALL BE SHOWN ON THE SHOP DRAWINGS. BURNING OF HOLES AND CUTS IN STRUCTURAL STEEL MEMBERS IN THE FIELD SHALL NOT BE ALLOWED, EXCEPT BY WRITTEN PERMISSION FROM THE AUTHORITY.

6. UNLESS OTHERWISE NOTED, ALL WELDS SHALL BE CONTINUOUS 1/4" MINIMUM FILLET WELDS FOR ALL MISC. STEEL SHOWN ON ARCH/MECH/ELECT. DRAWINGS.

7. FURNISH AND INSTALL MISCELLANEOUS STEEL (CURBS, HANGERS, EXPANSION JOINT ANGLES, STRUTS, ETC.) AS CALLED FOR OR AS NECESSARY PER ARCHITECTURAL AND MECHANICAL/ELECTRICAL DRAWINGS.

8. PROVIDE HOLES IN ALL STEEL AS REQUIRED TO PREVENT ANY ACCUMULATION OF WATER. ALL PENETRATIONS THROUGH MAIN MEMBERS SHALL NOT EXCEED 1-1/8" DIA. AND SHALL BE GROUND SMOOTH. THESE DRAINS MUST BE KEPT OPEN AND CLEAN.

9. ERECT AND MAINTAIN TEMPORARY BRACING TO INSURE THE ALIGNMENT AND STABILITY OF THE STRUCTURE DURING ERECTION UNTIL PERMANENT CONNECTIONS HAVE BEEN COMPLETED.

10. LOAD CARRYING COMPONENTS DESIGNATED "CVN" SHALL CONFORM TO THE CHARPY-V -NOTCH IMPACT ENERGY REQUIREMENT, ZONE 2.

11. GAS CUTTING OF STRUCTURAL STEEL MEMBERS IN THE FIELD SHALL NOT BE ALLOWED, EXCEPT BY WRITTEN PERMISSION FROM THE AUTHORITY.

12. STEEL BOLTS DESIGNATED AS SURFACE CLASS A SHALL BE CONNECTED TO SURFACES THAT ARE UNCOATED CLEAN MILL SCALE AND BLAST-CLEANED WITH CLASS A COATINGS, PER THE AREMA MANUAL.

STRUCTURAL STEEL CONNECTIONS

1. ALL STEEL DETAILS AND CONNECTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS", AISC-LOAD AND RESISTANCE FACTOR DESIGN

2. UNLESS OTHERWISE NOTED, DETAILS INDICATED ON DRAWINGS DO NOT SHOW ERECTION AIDS. PROVIDE ERECTION AIDS AS REQUIRED AND REMOVE THEM AFTER WORK IS COMPLETE.

3. ALTERNATE CONNECTIONS TO THOSE SHOWN ON DRAWINGS WILL ONLY BE CONSIDERED ACCEPTABLE IF FORMALLY SUBMITTED AND APPROVED BY THE AUTHORITY.

4. SHOW ALL COPES, HOLES, OPENINGS, AND MODIFICATIONS REQUIRED IN STRUCTURAL STEEL MEMBERS FOR ERECTION OR THE WORK OF OTHER TRADES ON THE SHOP DRAWINGS FOR APPROVAL BY THE AUTHORITY.

5. ELEMENTS SHALL BE SHOP FABRICATED TO THE GREATEST EXTENT POSSIBLE AND SHIPPED PROTECTED TO REDUCE FIELD WELDING AND FIELD TOUCH UP.

RIVET REMOVAL PROCEDURE

CHIP AND PUNCH PROCEDURE - RIVET SHANK IS NOT DEFORMED (BASIS OF DESIGN)

1. STEP 1 - CHIP: USING A RIVET BUSTER WITH A CHISEL TIP, CHIP OFF THE RIVET HEAD. APPLY FORCE TO HEAD AT THE SHALLOWEST POSSIBLE ANGLE TO AVOID DAMAGING OR GOUGING THE PARENT STEEL.

2. STEP 2 - PUNCH: USING A RIVET BUSTER WITH A ROUND, BACK-OUT PUNCH BIT, PUNCH OUT THE RIVET SHANK ON THE END WHERE THE HEAD WAS REMOVED.

3. DURING THE SHANK PUNCHING OPERATION, THE CONTRACTOR SHALL CATCH OR PROVIDE OTHER MEANS TO COLLECT / SAFELY DEFLECT THE RAPIDLY EXPELLED RIVET SHANKS TO PREVENT INJURY TO SURROUNDING SURFACES OR WORKERS.

4. REAM THE EXISTING HOLE THORUGH THE STEEL PLIES TO REMOVE SLAB OR OTHER IRREGULARITIES IN THE HOLE SURFACE WITH 1 1/16" DIAMETER REAMERS, OR GRIND WITH DIE GRINDER. IF HOLE HAS GOUGES, USE DIE GRINDER TO REMOVE GOUGES.

CUT AND WASH PROCEDURE - RIVET SHANK IS DEFORMED (ALTERNATE)

1. THIS PROCEDURE SHALL ONLY BE USED IF THE BASIS OF DESIGN METHOD IS INEFFECTIVE AND WITH THE CTA'S APPROVAL AT EVERY BOLT LOCATION.

2. ANY CUT AND/OR WASH PROCEDURES USED TO REMOVE RIVETS SHALL BE SUBMITTED FOR APPROVAL BY THE CTA. THE APPROVAL SHALL BE CONTINGENT ON THE SUBCONTRACTOR PHYSICALLY DEMONSTRATING HIS PROCEDURES IN THE FIELD TO EXHIBIT LIMITED OR NO DAMAGE TO THE PARENT STEEL MEMBER. USE OF THIS PROCEDURE IS ANTICIPATED TO BE VERY LIMITED.

3. STEP 1 - CUT: USING RIVET BUSTER WITH A CHISEL TIP, ORIENT THE TIPPER PERPNDICULAR TO THE SHANK AND CUT OFF THE RIVET HEAD. AVOID GOUGING, SCORING, OR DAMAGING THE PARENT STEEL. REMOVE BOTH HEADS OF THE RIVET.

4. STEP 2 - WASH: USING PLASMA CUTTER, ORIENT THE TIP PARALLEL TO THE LONGITUDINAL AXIS OF THE SHANK AND BLOW THROUGH THE CENTER OF THE RIVET SHANK TO CREATE A RELIEF HOLE. KEEP THE BURN HOLE STRAIGHT AND SQUARE TO THE PIECE, ENLARGING THE HOLE FROM INSIDE TO OUTSIDE. AVOID OVERHEATING OR DAMAGING THE ADJACENT STEEL.

5. STEP3 - REMOVAL: USE A FLAT PIN PUNCH AND HAMMER (OR STEP 2 IN THE CHIP & PUNCH PROCEDURE ABOVE) TO DRIVE OUT THE REMAINING SHANK FROM THE HOLE.

6. IF THE REMAINING RIVET SHAFT CANNOT BE BACKED OUT, THEN BURN OUT REMAINING RIVET SHAFT USING PLASMA CUTTER WITHOUT DAMAGING ADJACENT MATERIAL. MARK THE BURNED HOLE. CONTRACTOR TO NOTE BURNED HOLE LOCATION WITH AS REPAIRED WITH SUBMITTAL.

7. REAM THE EXISTING HOLE THROUGH THE STEEL PLIES TO REMOVE SLAG OR OTHER IRREGULARITIES IN THE HOLE SURFACE WITH 1 1/16" DIAMETER REAMERS, OR GRIND WITH DIE GRINDER. IF HOLE HAS GOUGES, USE DIE GRINDER TO REMOVE GOUGES."

WELDING

1. PLATFORM WELDS SHALL CONFORM TO THE AMERICAN WELDING SOCIETY "STRUCTURAL WELDING CODE" AWS D1.1, LATEST EDITION, FOR ALL PRE QUALIFICATION, WORKMANSHIP, TECHNIQUE AND PROCESS REQUIREMENTS, AND ALL INSPECTION, RECORD KEEPING, AND REPAIR PROCEDURES.

FILLER METAL REQUIREMENTS:
SUBMERGED ARC WELDING F7A2-ECG-G
SHIELDED METAL ARC WELDING: E7018 OR E7028

2. ANY WELD SIZES SHOWN ON THE DESIGN DRAWINGS ARE CONSIDERED EFFECTIVE WELD SIZES AND SHALL BE INCREASED IN ACCORDANCE WITH AWS AS REQUIRED BY GAPS OR SKEWS BETWEEN COMPONENTS.

3. USE RUNOFF TABS AT ALL BEVEL AND FULL PENETRATION WELDS. REMOVE RUNOFF TABS BY NEAT CUTS AFTER WELD IS COMPLETED. GRIND SMOOTH WHERE REQUIRED BY DETAIL.

4. REMOVE ALL RUN-OFF TABS AND BACKING STRIPS AND GRIND ALL GROOVE WELD AND OUTSIDE CORNER WELD SURFACES AND EDGES FLUSH AND SMOOTH PRIOR TO INSPECTION. FLUSH MEANS REMAINING REINFORCEMENT SHALL NOT EXCEED 1/32 INCH IN HEIGHT. SMOOTH MEANS ANSI ROUGHNESS VALUE 250.

5. ALL CONNECTIONS MUST BE WELDED BY CERTIFIED PRE-QUALIFIED WELDERS.

6. FIELD WELDING OF CONNECTIONS: FIELD WELDS SHALL MEET THE SAME STRUCTURAL AND APPEARANCE STANDARDS AS SHOP WELDS. ALL FIELD WELDS SHALL BE IDENTIFIED ON THE SHOP DRAWINGS. ZINC COATING SHALL BE REMOVED WITHIN 4 INCHES FROM EITHER SIDE OF THE INTENDED WORK ZONE BY GRINDING OR OTHER APPROVED METHOD, IF STEEL ELEMENTS ARE NOT MASKED PRIOR TO GALVANIZING. COATING TO BE REPAIRED PER SPECS.

7. INTERSECTING WELDS AND STITCH WELDS ARE PROHIBITED.

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APPROVED BY	S. LLURI
CHECKED BY	P. BUSCH
DESIGNED BY	S. HOANG
DRAWN BY	M. ROLKOWSKI

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STRUCTURAL NOTES AND ABBREVIATIONS (SHEET 1 OF 2)

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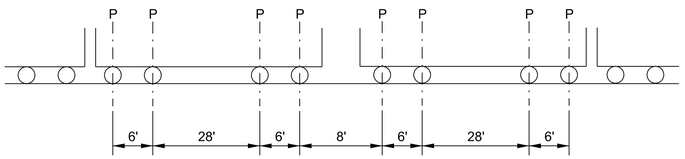
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DESIGN AXLE LOADS AND SPACING

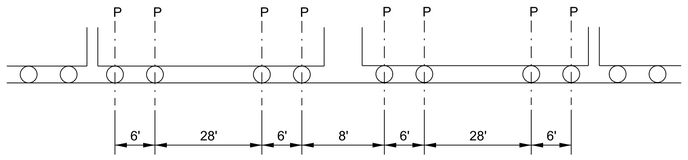
STRESS ANALYSIS LOADING

P=26.5K



FATIGUE AND DEFLECTION ANALYSIS LOADING

15.6K	CAR WT.	
5.8K	PASSENGERS WT.	
P = 21.4K	TOTAL WT.	



ABBREVIATIONS

ACI	AMERICAN CONCRETE INSTITUTE
ARCH	ARCHITECT
AREMA	RAILWAY ENGINEERING AND MAINTENANCE-OF-WAY ASSOCIATION
B/	BOTTOM OF
BL	BASELINE
BM	BEAM
BOT	BOTTOM
BRB	BRACED FRAME
BRG	BEARING
C	COMPRESSION
C/W	CONSTRUCT WITH
C/C	CENTER TO CENTER
CCD	CITY OF CHICAGO DATUM
CF	CROSS FRAME
CIP	CAST IN PLACE
CL	CENTERLINE
CLR	CLEAR OR CLEARANCE
CLSM	CONTROLLED LOW STRENGTH MATERIAL
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION(S)
CONST	CONSTRUCTION
CONT	CONTINUOUS
CSP	CONCRETE SURFACE PROFILE
CVN	CHARPY-V-NOTCH
DB	REINFORCING BAR DIAMETER
DBL	DOUBLE
DEG	DEGREE(S)
DET	DETAIL
DIA	DIAMETER
DIM(S)	DIMENSION(S)
DL	DEAD LOAD
DWG(S)	DRAWING(S)
ECC	ECCENTRICITY
EA	EACH
EF	EACH FACE
ENGR	ENGINEER
EOS/EOD	EDGE OF SLAB/EDGE OF DECK
EQ	EQUAL
ES	EACH SIDE
EXIST	EXISTING
FCM	FRACTURE CRITICAL MEMEBER
FL	FLANGE
FTG	FOOTING
FND	FOUNDATION
GC	GENERAL CONTRACTOR
HI	HIGH
HORZ	HORIZONTAL
ICRI	INTERNATIONAL CONCRETE REPAIR INSTITUTE
IF	INSIDE FACE
K	KIPS (OR 1,000 POUNDS)
KLF	KIP PER LINEAR FOOT
KSF	KIP PER SQUARE FOOT
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LO	LOW
MC	MOMENT CONNECTIONS
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MECH	MECHANICAL
MIN	MINIMUM
NTS	NOT TO SCALE
NWC	NORMAL WEIGHT CONCRETE
O/□	OUTSTANDING ANGLE
OC	ON CENTER
OH	OPPOSITE HAND
O/O	OUT TO OUT
OPP	OPPOSITE
PL	PLATE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
REINF	REINFORCE(D) (ING) OR (MENT)
SCHED	SCHEDULE(D)
SDL	SUPERIMPOSED DEAD LOAD
SECT	SECTION
SER	STRUCTURAL ENGINEER OF RECORD
SIM	SIMILAR
SOG	SLAB ON GRADE
SPEC(S)	SPECIFICATION(S)
STL	STEEL
T	TENSION
T/	TOP OF
T&B	TOP AND BOTTOM
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VIF	VERIFY IN FIELD
WP	WORKPOINT
WWF	WELDED WIRE FABRIC

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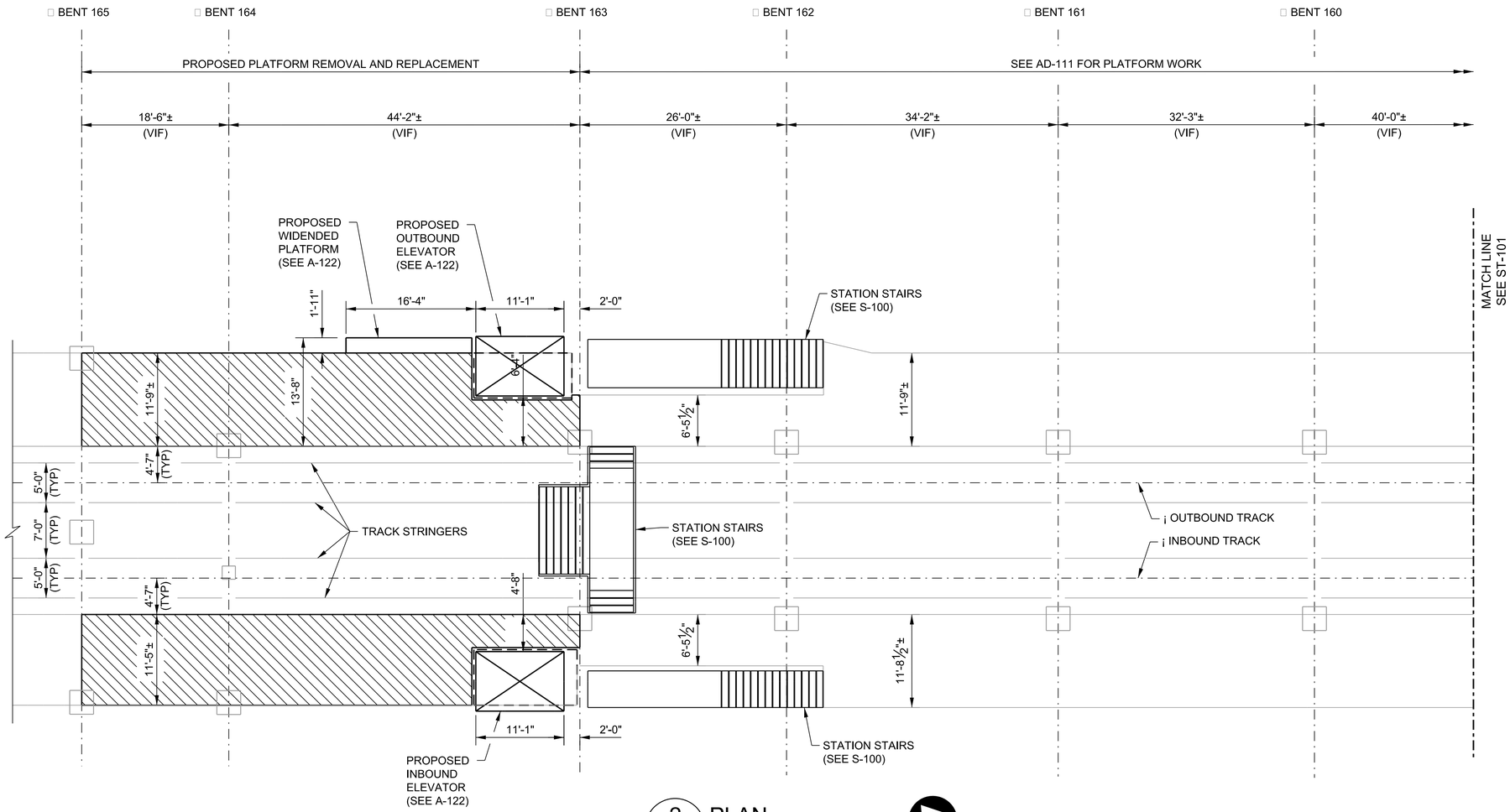
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STRUCTURAL NOTES AND ABBREVIATIONS (SHEET 2 OF 2)

LSCAL | ST-002

VOLUME: X OF X

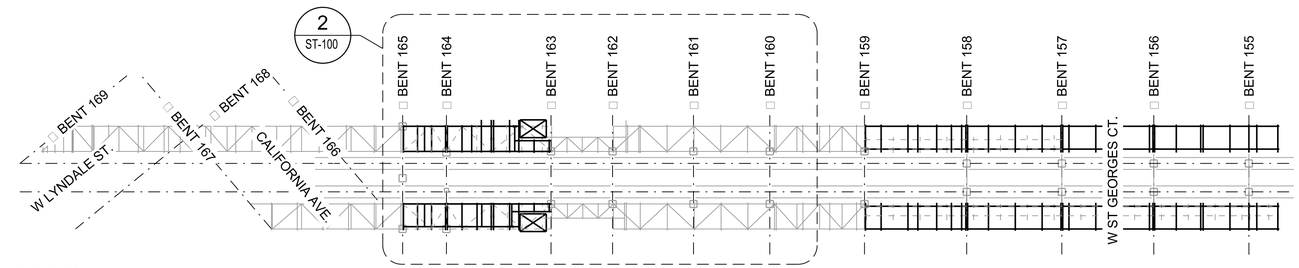
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2 ST-100 PLAN

SCALE: 1/8"=1'-0"

NORTH



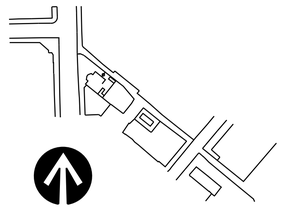
1 ST-100 PLATFORM PLAN

NO SCALE

NORTH

LEGEND:

- PROPOSED PLATFORM
- PROPOSED PLATFORM REMOVAL
- PROPOSED PLATFORM REMOVAL AND REPLACEMENT



NORTH

...\02_Sheets\071_LSCAL_ST-100.dgn

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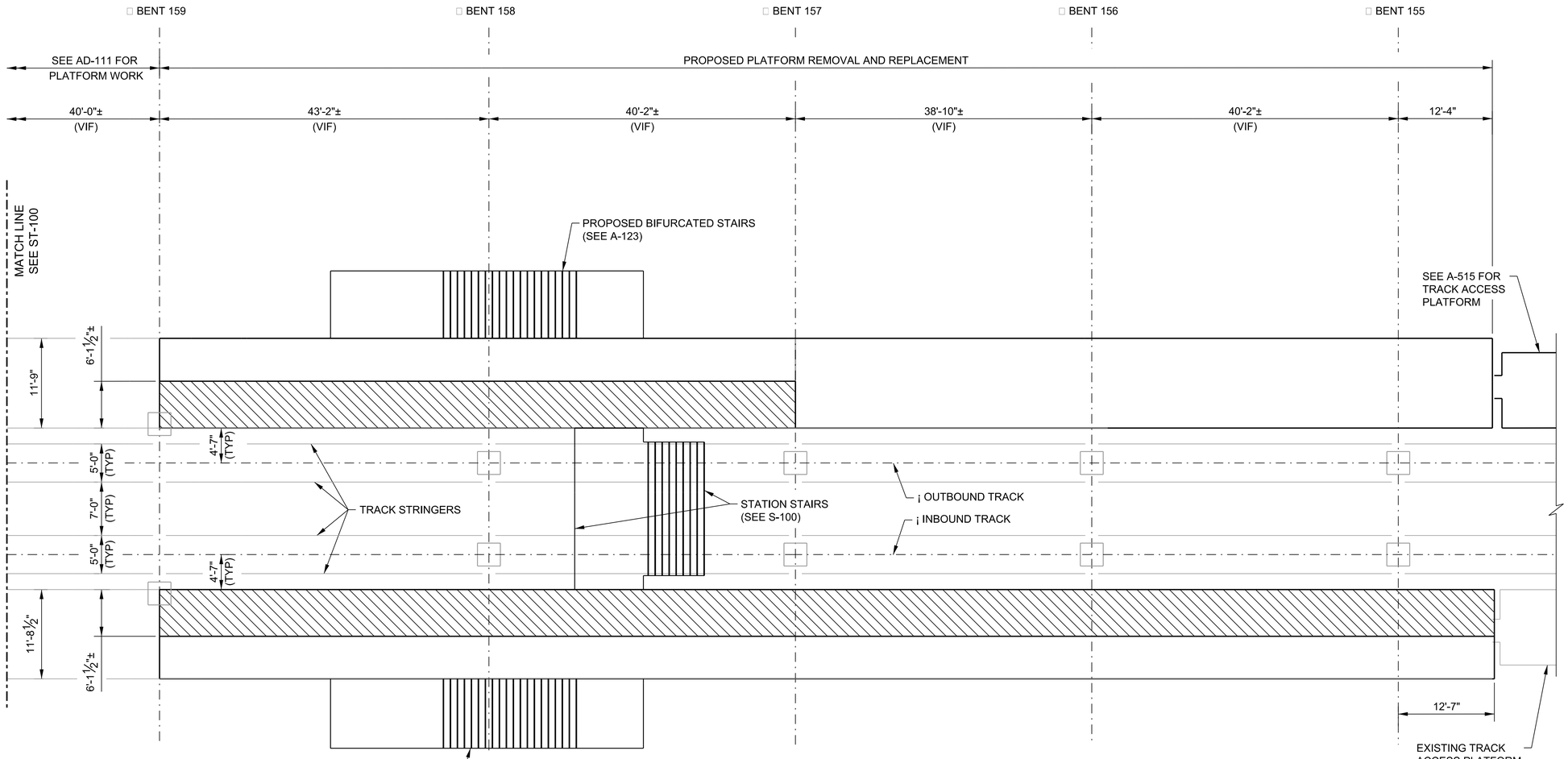
PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	S. LLURI
CHECKED BY	P. BUSCH
DESIGNED BY	S. HOANG
DRAWN BY	M. ROLKOWSKI

MARK	DATE	DESCRIPTION
0	12/30/24	ISSUE FOR BID

TRACK STRUCTURE FRAMING PLAN - 1

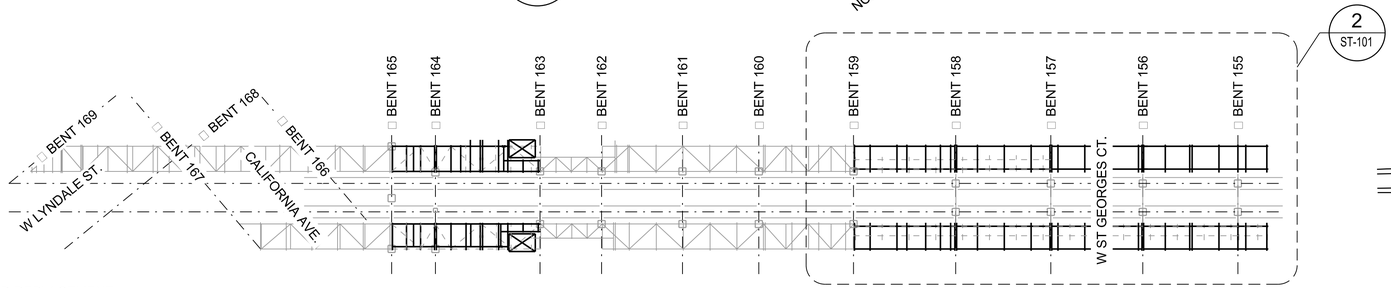
LSCAL | ST-100

VOLUME: X OF X



2 ST-101 **PLAN**
SCALE: 1/8"=1'-0"

NORTH



LEGEND:

- PROPOSED PLATFORM
- PROPOSED PLATFORM REMOVAL
- PROPOSED PLATFORM REMOVAL AND REPLACEMENT

1 ST-101 **PLATFORM PLAN**
NO SCALE

NORTH

0 1' 2' 4'
SCALE: 1/2"=1'-0"

NORTH

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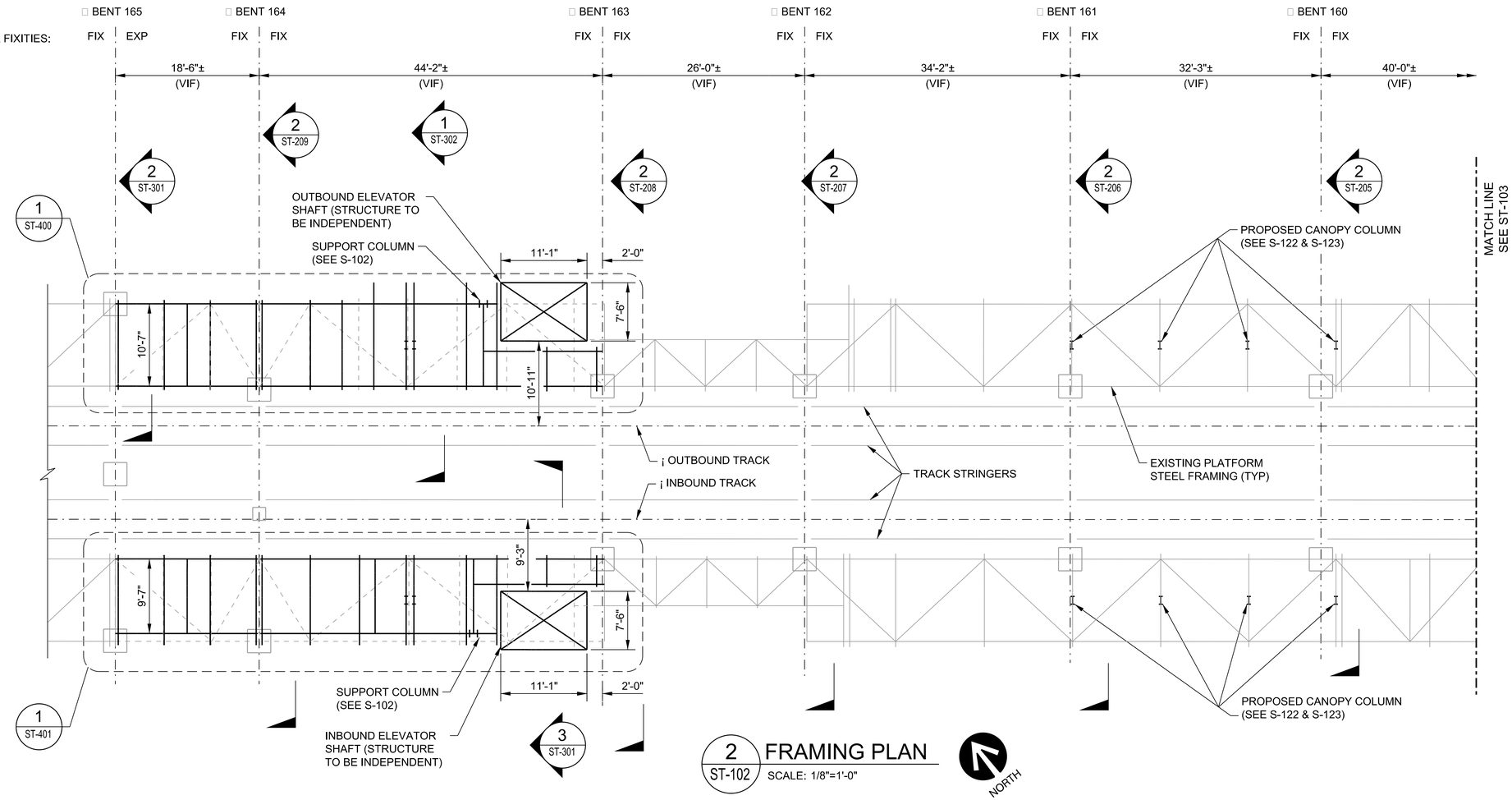
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TRACK STRUCTURE FRAMING PLAN - 2

LSCAL | ST-101

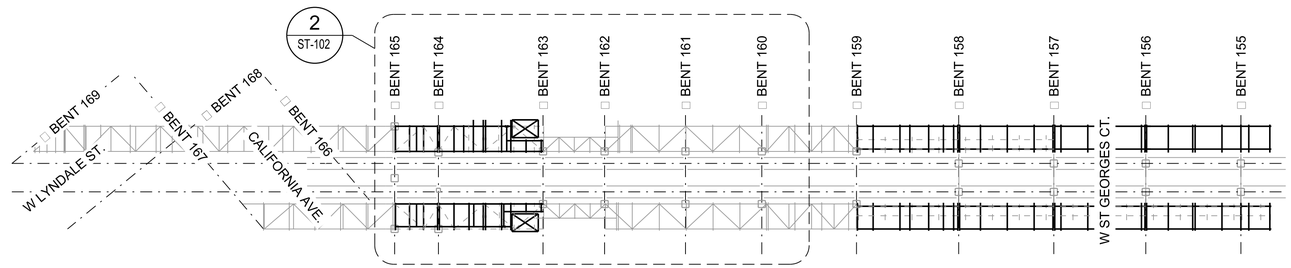
VOLUME: X OF X

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2 ST-102 **FRAMING PLAN**
SCALE: 1/8"=1'-0"

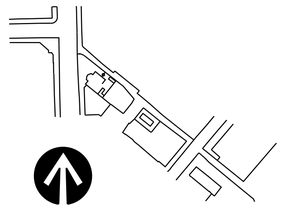
NORTH



1 ST-102 **PLATFORM PLAN**
NO SCALE

NORTH

0 1' 2' 4'
SCALE: 1/2"=1'-0"



NORTH

...\02_Sheets\071_LSCAL_ST-103.dgn
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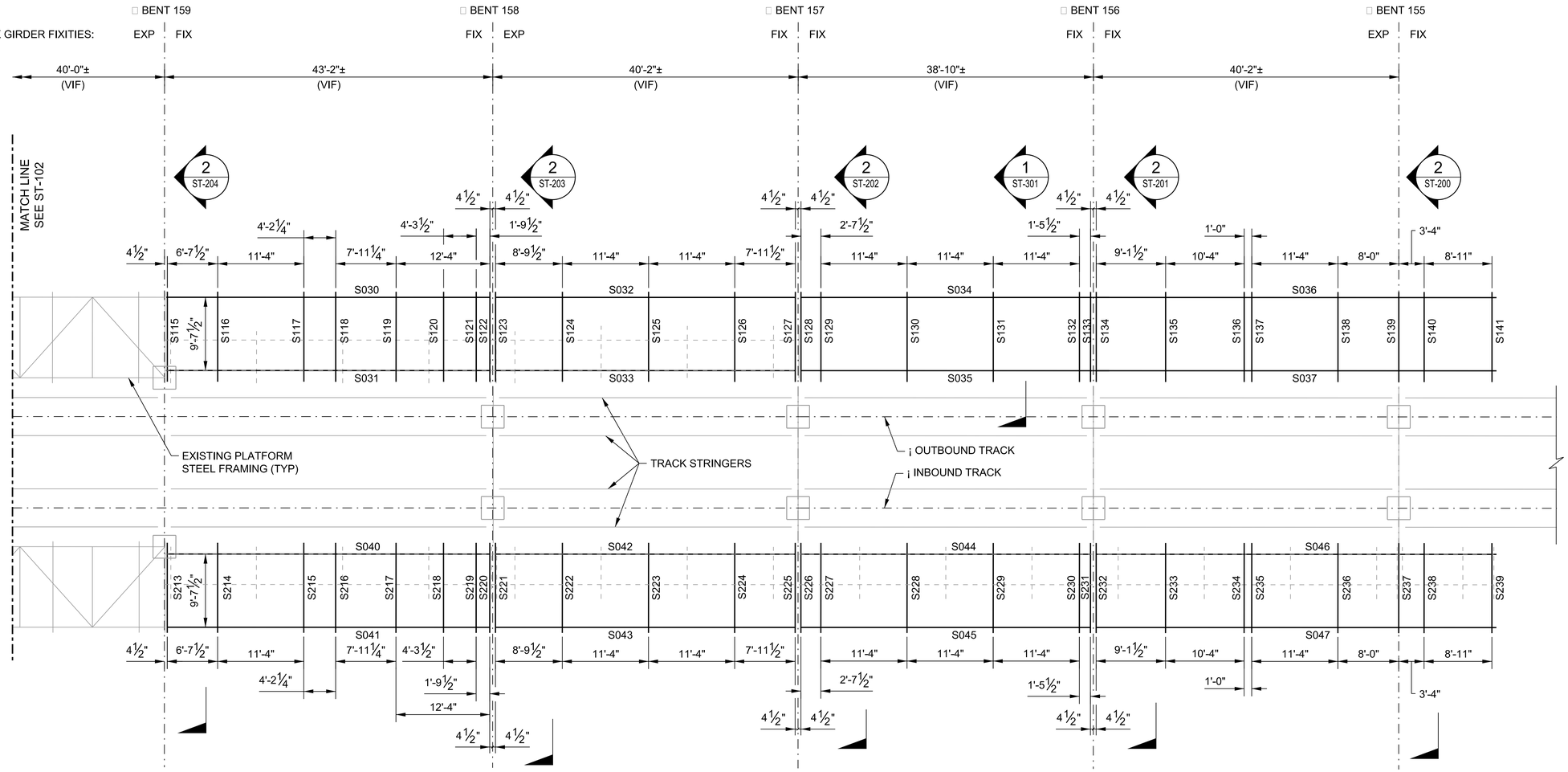
PROJECT NO	2015-0027.04
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DRAWN BY	M. ROLKOWSKI

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PLATFORM LEVEL FRAMING PLAN - 1

LSCAL | ST-102

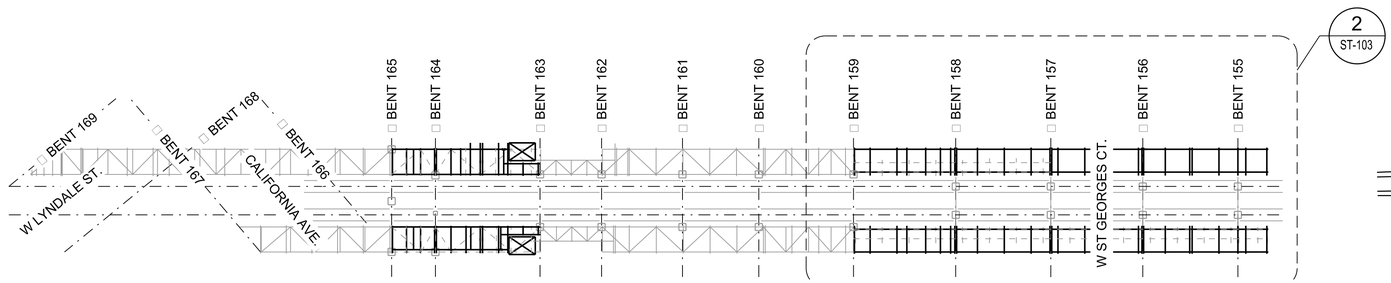
VOLUME: X OF X



2 ST-103 FRAMING PLAN

SCALE: 1/8"=1'-0"

NORTH



1 ST-103 PLATFORM PLAN

NO SCALE

NORTH

0 1' 2' 4'

SCALE: 1/2"=1'-0"

NORTH

NOTES:

1. SEE ST-300 FOR CHANNEL DIAPHRAGM LOCATIONS.

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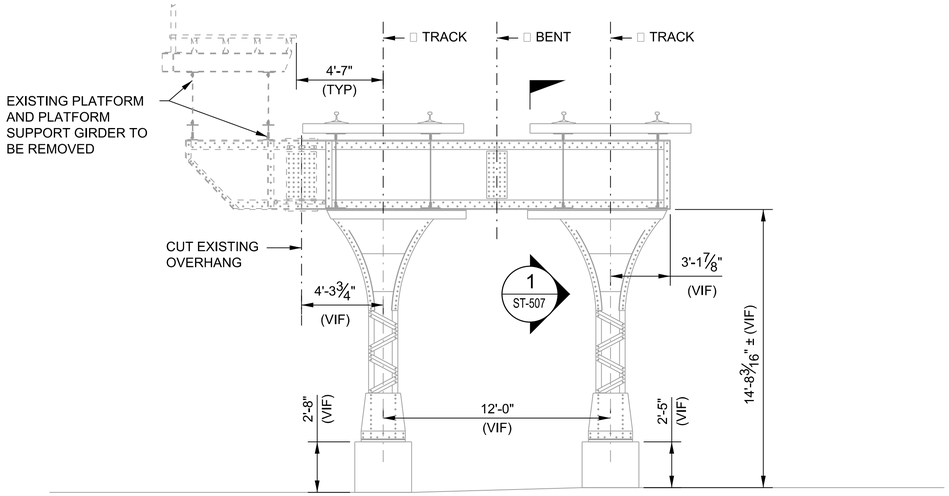
PLATFORM LEVEL FRAMING PLAN - 2

LSCAL | ST-103

VOLUME: X OF X

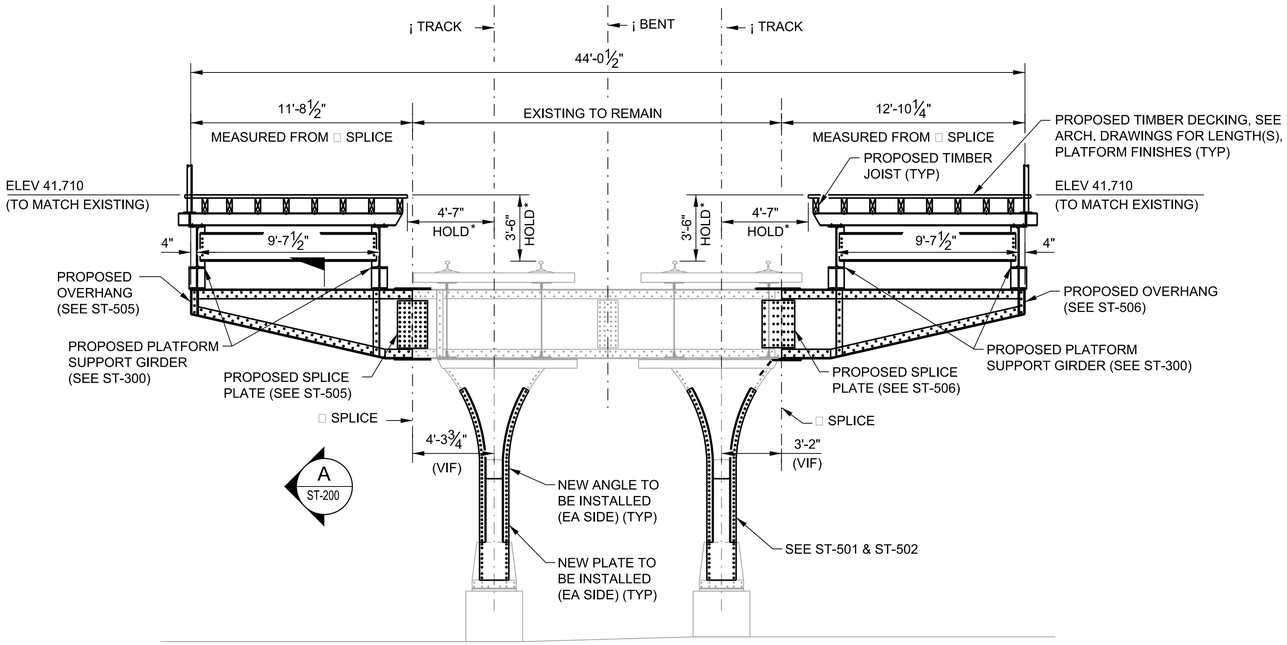
INBOUND

OUTBOUND



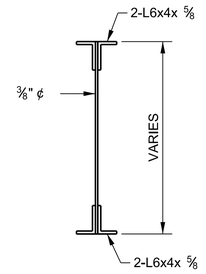
1 / ST-200 ELEVATION - BENT 155 (LOOKING NORTHWEST)

SCALE: 1/4"=1'-0"



2 / ST-200 EXISTING BENT 155 MODIFICATION DETAIL

SCALE: 1/4"=1'-0"



A / ST-200 OVERHANG GIRDER TYPICAL SECTION

SCALE:3/4"=1'-0"

* CONTRACTOR MUST CONTINUOUSLY CHECK DIMENSIONS WHILE INSTALLING PLATFORM TIMBER AND SHIM WHERE NEEDED

NOTES:

1. DIMENSIONS AND MEMBER SIZES WERE DETERMINED FROM A COMBINATION OF FIELD MEASUREMENTS AND EXISTING PLANS AND MAY VARY FROM ACTUAL CONDITIONS. CONTRACTOR TO VERIFY PRIOR TO FABRICATION.
2. ALL EXISTING BOLTS/RIVETS ARE 7/8" DIAMETER. CONTRACTOR TO VERIFY IN FIELD.
3. FOR COLUMN DIMENSIONS, SEE ST-500 THROUGH ST-502.
4. ALL BOLTS ARE 7/8" DIA. A325 - SCA SLIP CRITICAL, TYP. UNLESS NOTED OTHERWISE.
5. REMOVE EXISTING BOLTS AND REUSE BOLT HOLES WHERE INDICATED. FIELD VERIFY LOCATION OF EXISTING HOLES PRIOR TO FABRICATION.

0 1' 2'
SCALE: 3/4"=1'-0"

0 2' 4' 8'
SCALE: 1/4"=1'-0"

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CHECKED BY	P. BUSCH
DESIGNED BY	S. HOANG
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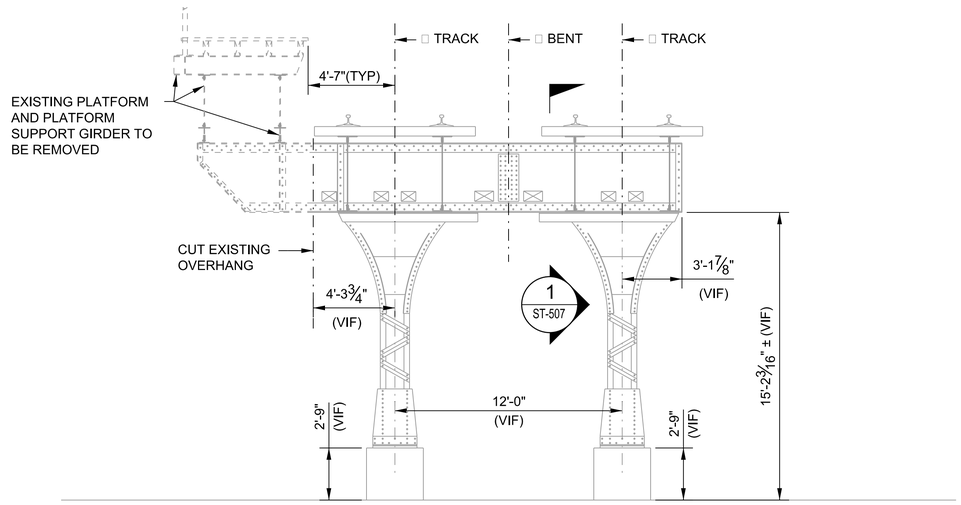
EXISTING STEEL MODIFICATIONS (SHEET 1 OF 10)

LSCAL | ST-200

VOLUME: X OF X

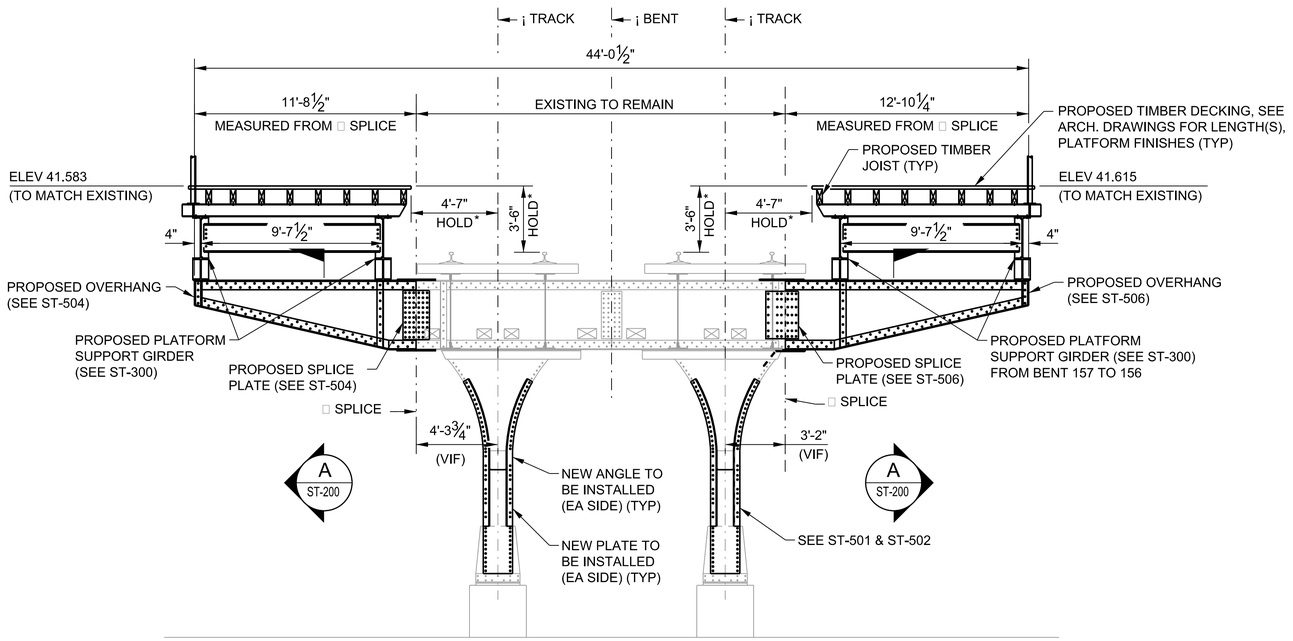
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INBOUND OUTBOUND



1 ST-201 ELEVATION - BENT 156 (LOOKING NORTHWEST)

SCALE: 1/4"=1'-0"



2 ST-201 EXISTING BENT 156 MODIFICATION DETAIL

SCALE: 1/4"=1'-0"

* CONTRACTOR MUST CONTINUOUSLY CHECK DIMENSIONS WHILE INSTALLING PLATFORM TIMBER AND SHIM WHERE NEEDED

LEGEND:

☒ EXISTING CUT SECTION

NOTES:

1. DIMENSIONS AND MEMBER SIZES WERE DETERMINED FROM A COMBINATION OF FIELD MEASUREMENTS AND EXISTING PLANS AND MAY VARY FROM ACTUAL CONDITIONS. CONTRACTOR TO VERIFY PRIOR TO FABRICTION.
2. ALL EXISTING BOLTS/RIVETS ARE 7/8" DIAMETER. CONTRACTOR TO VERIFY IN FIELD.
3. FOR COLUMN DIMENSIONS, SEE ST-500 THROUGH ST-502.
4. FOR OVERHANG CUT LOCATION, MATCH VERIFIED IN FIELD LOCATION OF BENT 155 SPLICE.
5. ALL BOLTS ARE 7/8" DIA. A325 - SCA SLIP CRITICAL, TYP. UNLESS NOTED OTHERWISE.
6. REMOVE EXISTING BOLTS AND REUSE BOLT HOLES WHERE INDICATED. FIELD VERIFY LOCATION OF EXISTING HOLES PRIOR TO FABRICATION.

0 2' 4' 8'

SCALE: 1/4"=1'-0"

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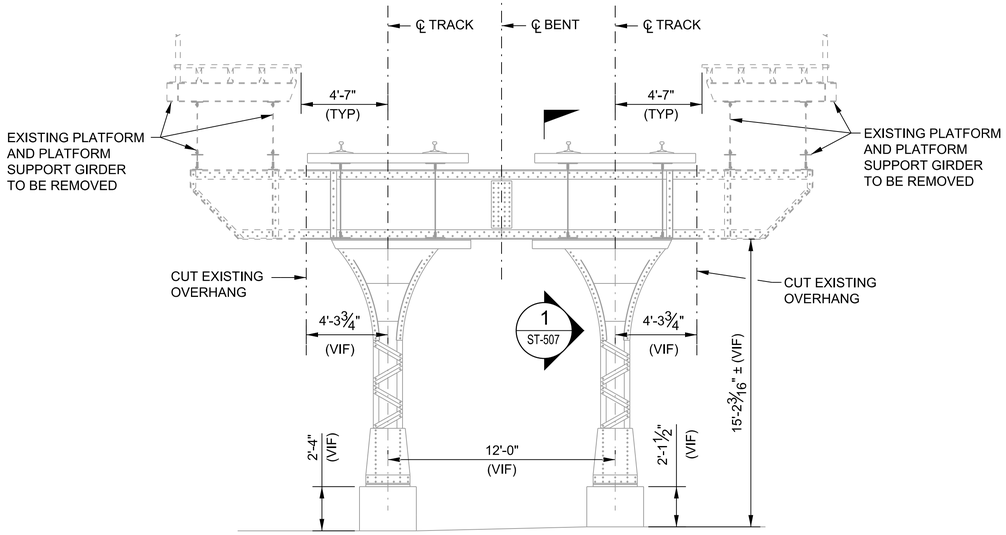
MARK	DATE	DESCRIPTION
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EXISTING STEEL MODIFICATIONS (SHEET 2 OF 10)

LSCAL | ST-201

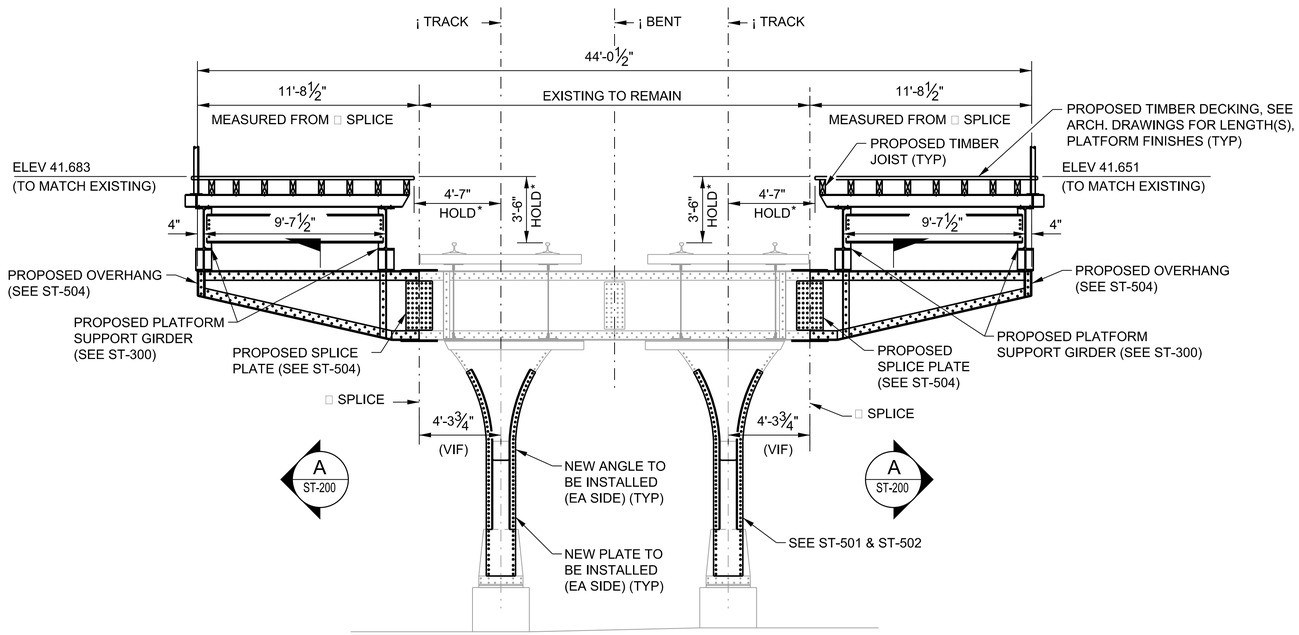
VOLUME: X OF X

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1 ST-202 ELEVATION - BENT 157 (LOOKING NORTHWEST)

SCALE: 1/4"=1'-0"



2 ST-202 EXISTING BENT 157 MODIFICATION DETAIL

SCALE: 1/4"=1'-0"

* CONTRACTOR MUST CONTINUOUSLY CHECK DIMENSIONS WHILE INSTALLING PLATFORM TIMBER AND SHIM WHERE NEEDED

NOTES:

1. DIMENSIONS AND MEMBER SIZES WERE DETERMINED FROM A COMBINATION OF FIELD MEASUREMENTS AND EXISTING PLANS AND MAY VARY FROM ACTUAL CONDITIONS. CONTRACTOR TO FIELD VERIFY PRIOR TO FABRICATION.
2. ALL EXISTING BOLTS/RIVETS ARE 7/8" DIAMETER. CONTRACTOR TO VERIFY IN FIELD.
3. FOR COLUMN DIMENSIONS, SEE ST-500 THROUGH ST-502.
4. FOR OVERHANG CUT LOCATION, MATCH VERIFIED IN FIELD LOCATION OF BENT 155 SPLICE.
5. ALL BOLTS ARE 7/8" DIA. A325 - SCA SLIP CRITICAL, TYP. UNLESS NOTED OTEHRWISE.
6. REMOVE EXISTING BOLTS AND REUSE BOLT HOLES WHERE INDICATED. FIELD VERIFY LOCATION OF EXISTING HOLES PRIOR TO FABRICATION.

0 2' 4' 8'

SCALE: 1/4"=1'-0"

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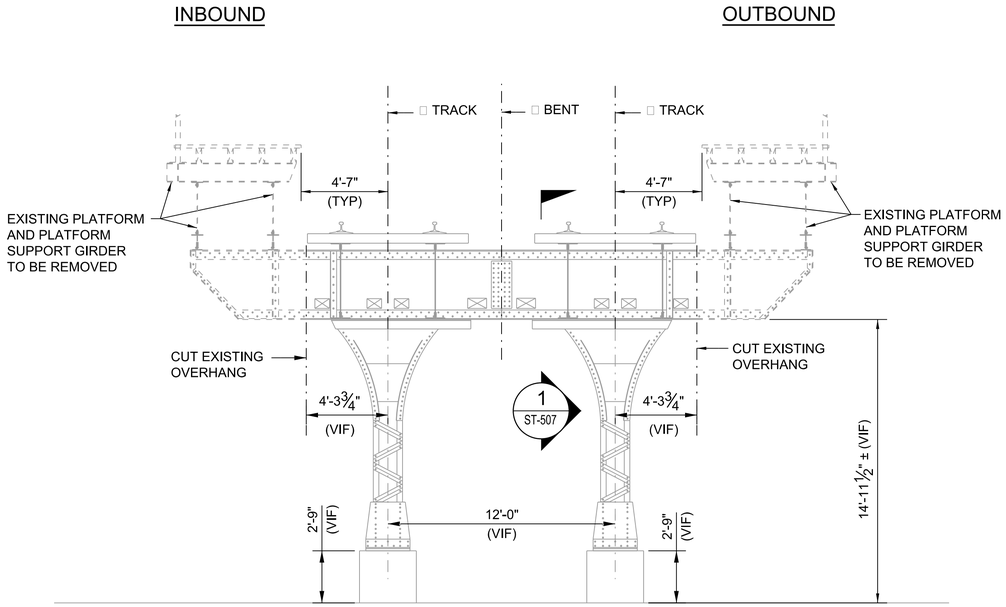
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EXISTING STEEL MODIFICATIONS (SHEET 3 OF 10)

LSCAL | ST-202

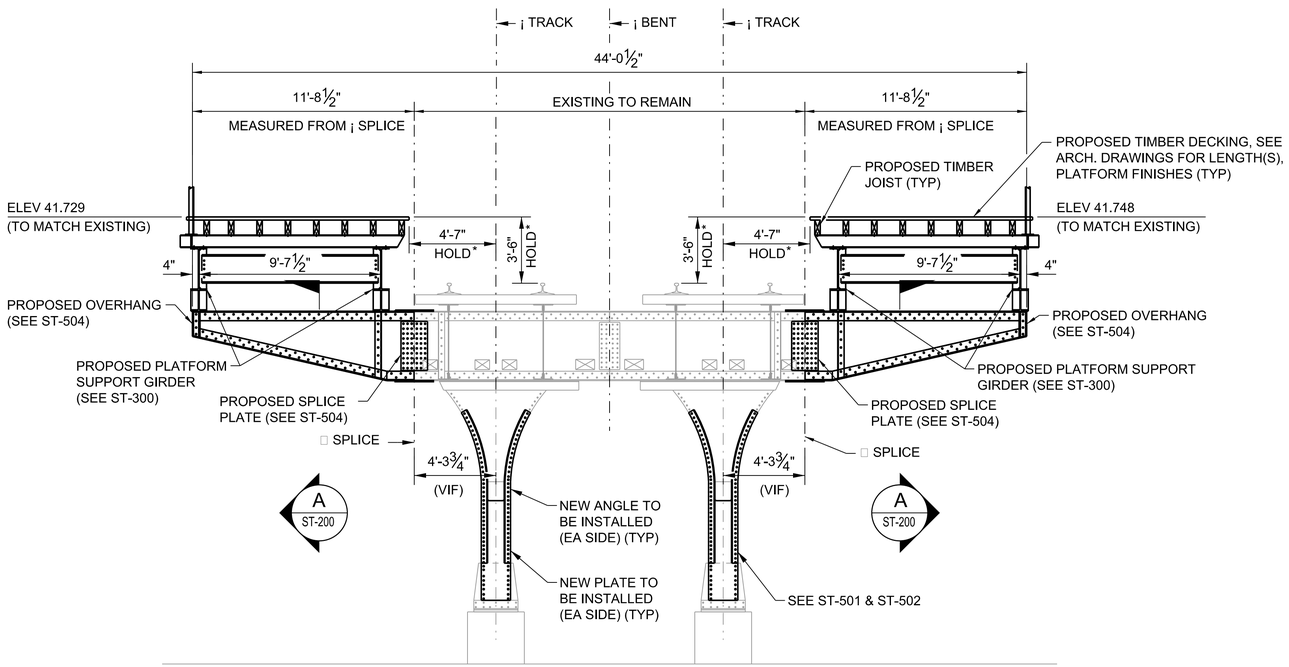
VOLUME: X OF X

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1 ST-203 ELEVATION - BENT 158 (LOOKING NORTHWEST)

SCALE: 1/4"=1'-0"



2 ST-203 EXISTING BENT 158 MODIFICATION DETAIL

SCALE: 1/4"=1'-0"

* CONTRACTOR MUST CONTINUOUSLY CHECK DIMENSIONS WHILE INSTALLING PLATFORM TIMBER AND SHIM WHERE NEEDED

LEGEND:

☒ EXISTING CUT SECTION

NOTES:

1. DIMENSIONS AND MEMBER SIZES WERE DETERMINED FROM A COMBINATION OF FIELD MEASUREMENTS AND EXISTING PLANS AND MAY VARY FROM ACTUAL CONDITIONS. CONTRACTOR TO VERIFY PRIOR TO FABRICATION.
2. ALL EXISTING BOLTS/RIVETS ARE 7/8" DIAMETER. CONTRACTOR TO VERIFY IN FIELD.
3. FOR COLUMN DIMENSIONS, SEE ST-500 THROUGH ST-502.
4. FOR OVERHANG CUT LOCATION, MATCH VERIFIED IN FIELD LOCATION OF BENT 155 SPLICE.
5. LOAD CARYING COMPONENTS DESIGNATED "FCM" SHALL CONFORM TO THE IMPACT TESTING REQUIREMENT, ZONE 2.
6. ALL BOLTS ARE 7/8" DIA. A325 - SCA SLIP CRITICAL, TYP. UNLESS NOTED OTHERWISE.
7. REMOVE EXISTING BOLTS AND REUSE BOLT HOLES WHERE INDICATED. FIELD VERIFY LOCATION OF EXISTING HOLES PRIOR TO FABRICATION.

0 2' 4' 8'

SCALE: 1/4"=1'-0"

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2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	S. LLURI
CHECKED BY	P. BUSCH
DESIGNED BY	S. HOANG
DRAWN BY	M. ROLKOWSKI

MARK	DATE	DESCRIPTION
0	12/30/24	ISSUE FOR BID

EXISTING STEEL MODIFICATIONS (SHEET 4 OF 10)

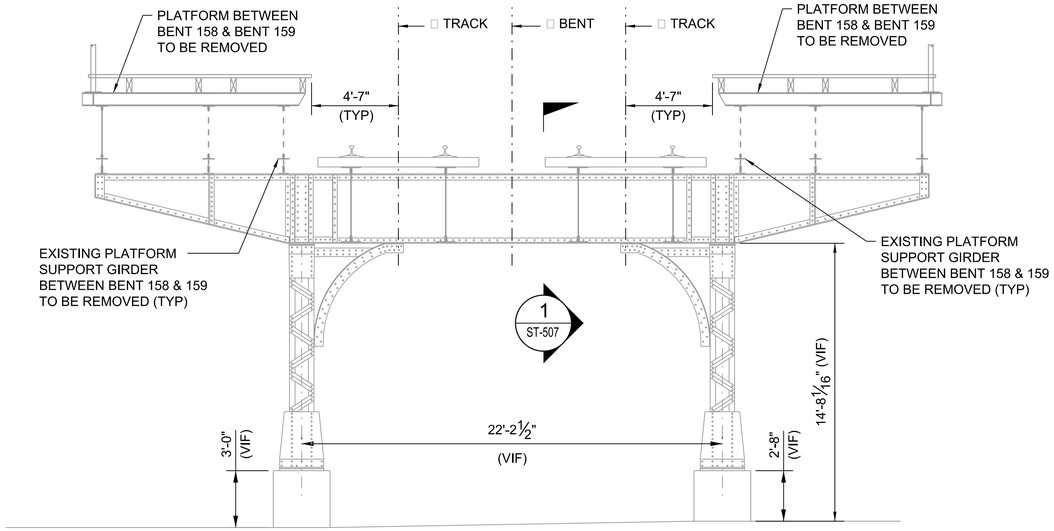
LSCAL | ST-203

VOLUME: X OF X

PLOTTED ON: 11/5/2024 3:41:08 PM ...\02_Sheets\071_LSCAL_ST-203.dgn

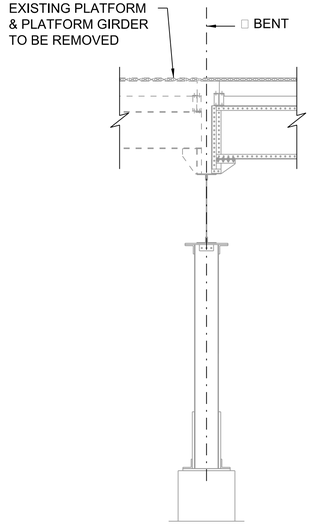
INBOUND

OUTBOUND



1 ST-204 ELEVATION - BENT 159 (LOOKING NORTHWEST)

SCALE: 1/4"=1'-0"



3 ST-204 COLUMN ELEVATION (LOOKING SOUTHWEST)

(SHOWING EXISTING CONDITION)

SCALE: 1/4"=1'-0"

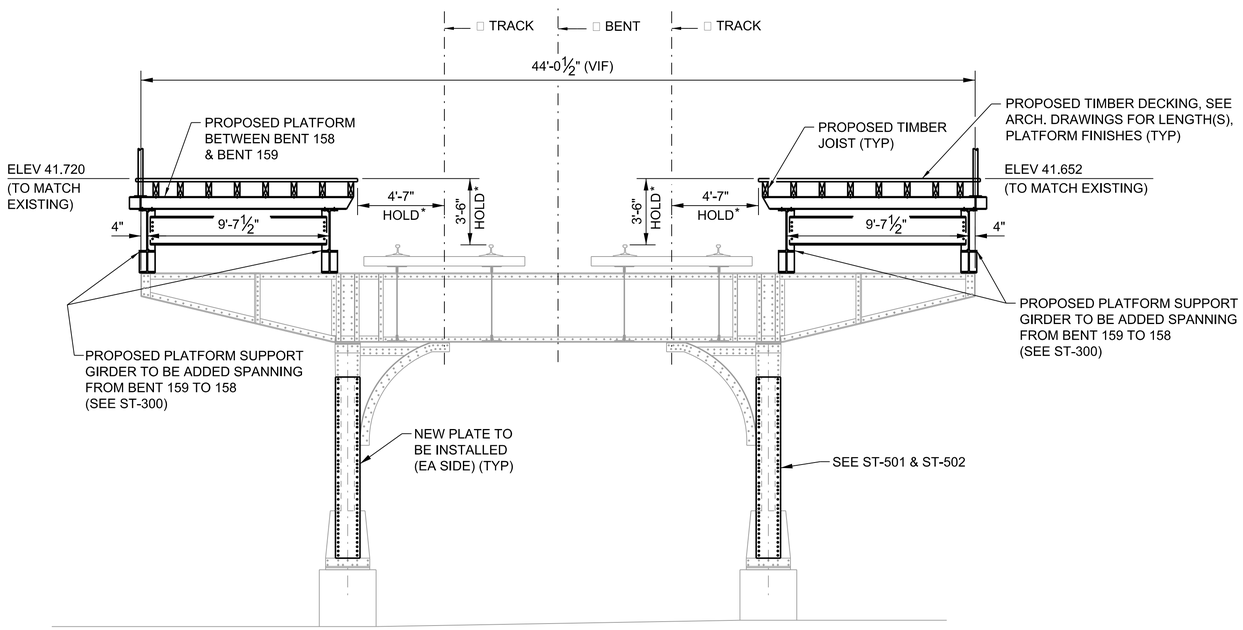
NOTES:

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2. ALL EXISTING BOLTS/RIVETS ARE 7/8" DIAMETER. CONTRACTOR TO VERIFY IN FIELD.
3. FOR COLUMN DIMENSIONS SEE ST-500 THROUGH ST-502.
4. ALL BOLTS ARE 7/8" DIA. A325 - SCA SLIP CRITICAL, TYP. UNLESS NOTED OTHERWISE.
5. REMOVE EXISTING BOLTS AND REUSE BOLT HOLES WHERE INDICATED. FIELD VERIFY LOCATION OF EXISTING HOLES PRIOR TO FABRICATION.

0 2' 4' 8'

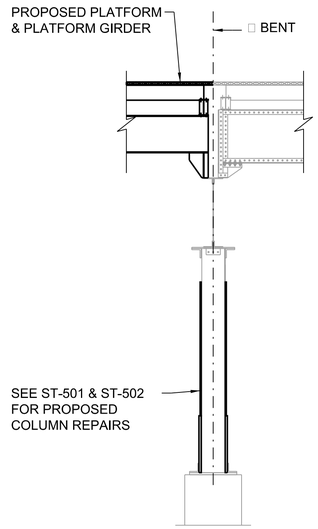
SCALE: 1/4"=1'-0"

* CONTRACTOR MUST CONTINUOUSLY CHECK DIMENSIONS WHILE INSTALLING PLATFORM TIMBER AND SHIM WHERE NEEDED



2 ST-204 EXISTING BENT 159 MODIFICATION DETAIL

SCALE: 1/4"=1'-0"



4 ST-204 COLUMN ELEVATION (LOOKING SOUTHWEST)

(SHOWING PROPOSED WORK)

SCALE: 1/4"=1'-0"

HNTB Corporation
One South Wacker Drive, Suite 2500
Chicago, Illinois 60606
(312) 930-9119

CHICAGO TRANSIT AUTHORITY
ENGINEERING

SENSITIVE SECURITY INFORMATION

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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
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CHECKED BY	P. BUSCH
DESIGNED BY	S. HOANG
DRAWN BY	M. ROLKOWSKI

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0	12/30/24	ISSUE FOR BID

EXISTING STEEL MODIFICATIONS (SHEET 5 OF 10)

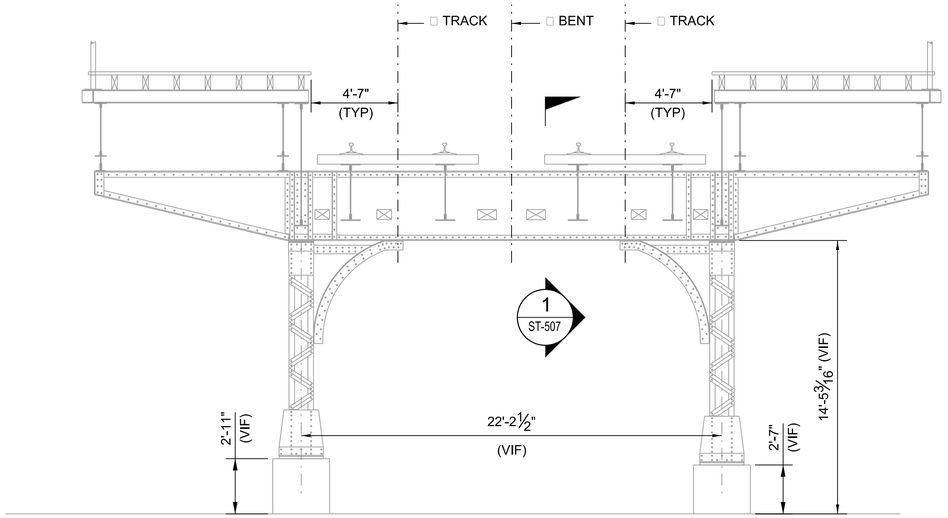
LSCAL | ST-204

VOLUME: X OF X

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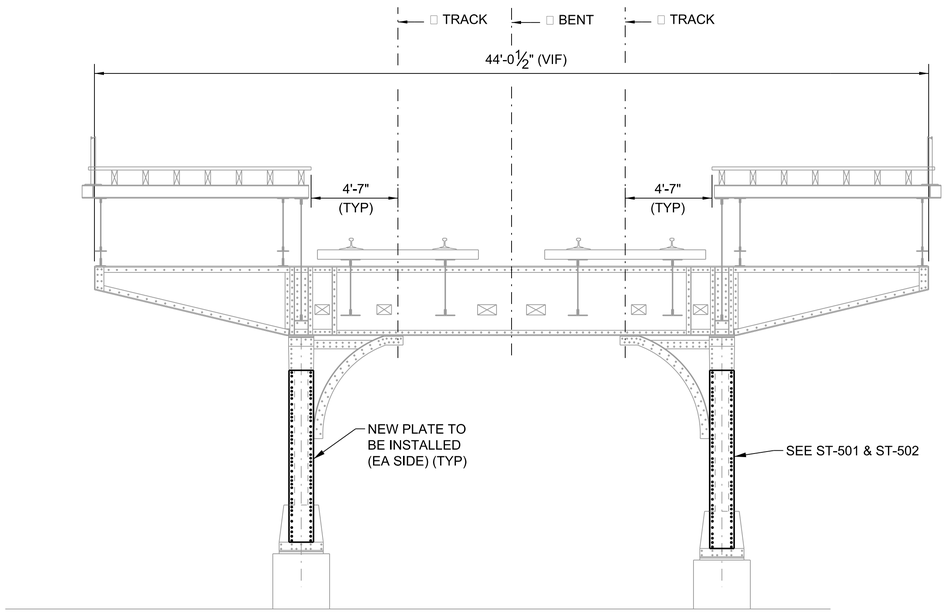
INBOUND

OUTBOUND



1 ST-205 ELEVATION - BENT 160 (LOOKING NORTHWEST)

SCALE: 1/4"=1'-0"



2 ST-205 EXISTING BENT 160 MODIFICATION DETAIL

SCALE: 1/4"=1'-0"

NOTES:

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5. REMOVE EXISTING BOLTS AND REUSE BOLT HOLES WHERE INDICATED. FIELD VERIFY LOCATION OF EXISTING HOLES PRIOR TO FABRICATION.

0 2' 4' 8'

SCALE: 1/4"=1'-0"

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Chicago, Illinois 60606
(312) 930-9119

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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

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IN CHARGE	I. COLLETTI
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CHECKED BY	P. BUSCH
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DRAWN BY	M. ROLKOWSKI

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0	12/30/24	ISSUE FOR BID

EXISTING STEEL MODIFICATIONS
(SHEET 6 OF 10)

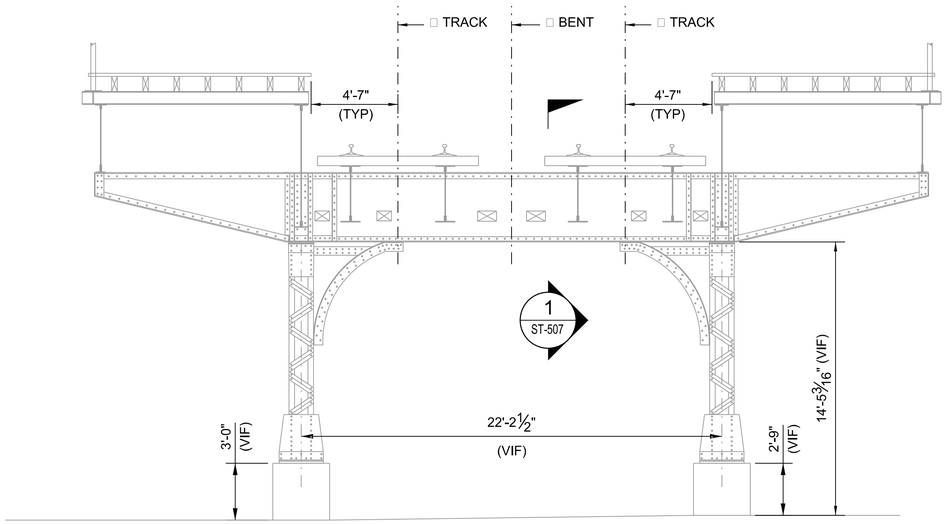
LSCAL | ST-205

VOLUME: X OF X

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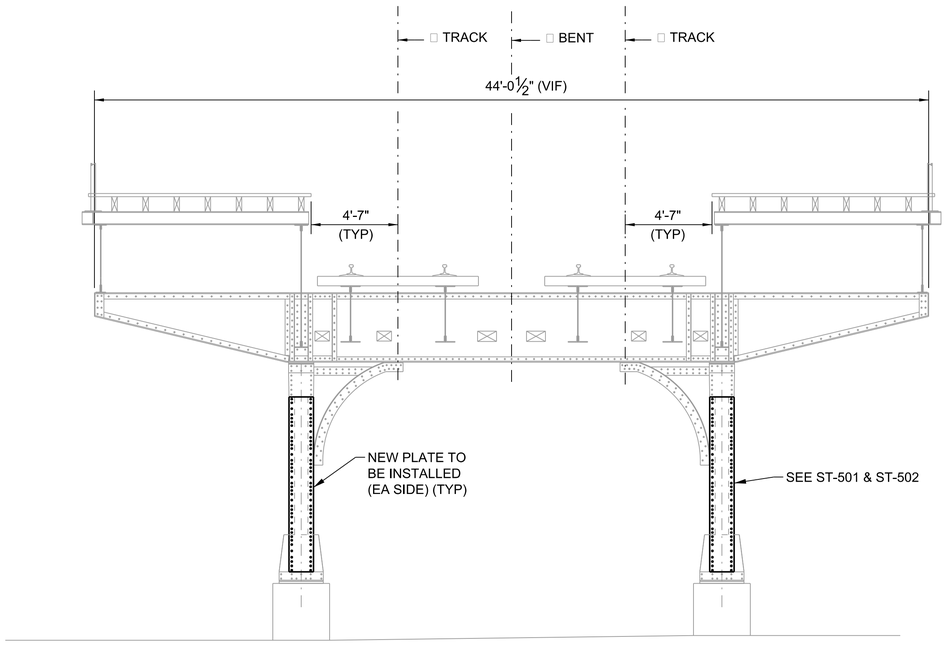
INBOUND

OUTBOUND



1 / ST-206 ELEVATION - BENT 161 (LOOKING NORTHWEST)

SCALE: 1/4"=1'-0"



2 / ST-206 EXISTING BENT 161 MODIFICATION DETAIL

SCALE: 1/4"=1'-0"

NOTES:

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5. REMOVE EXISTING BOLTS AND REUSE BOLT HOLES WHERE INDICATED. FIELD VERIFY LOCATION OF EXISTING HOLES PRIOR TO FABRICATION.

0 2' 4' 8'

SCALE: 1/4"=1'-0"

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Chicago, Illinois 60606
(312) 930-9119

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ENGINEERING

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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

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0	12/30/24	ISSUE FOR BID

EXISTING STEEL MODIFICATIONS
(SHEET 7 OF 10)

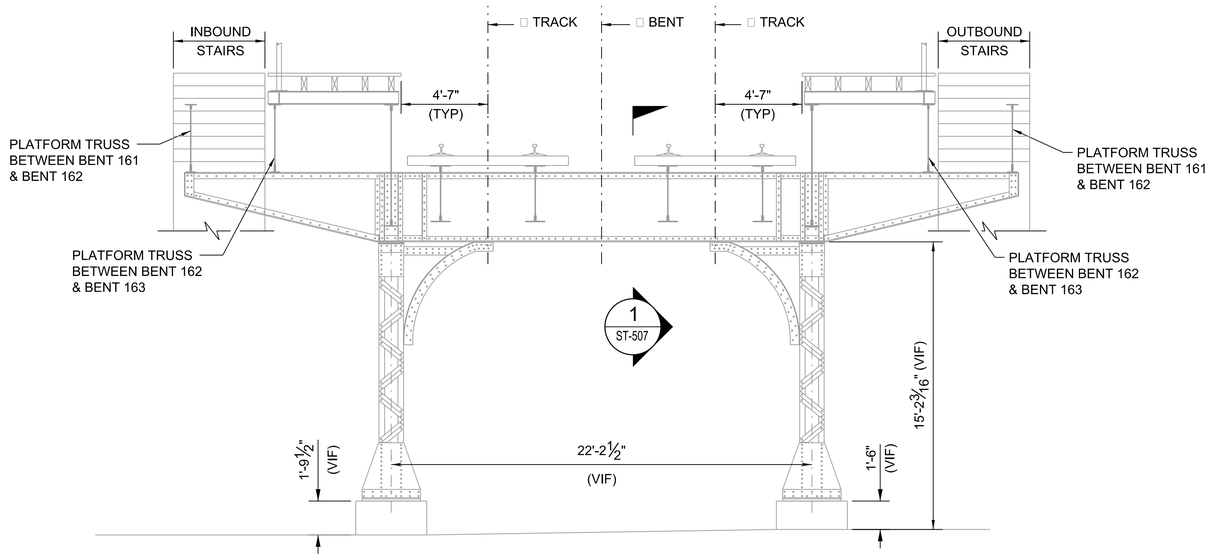
LSCAL | ST-206

VOLUME: X OF X

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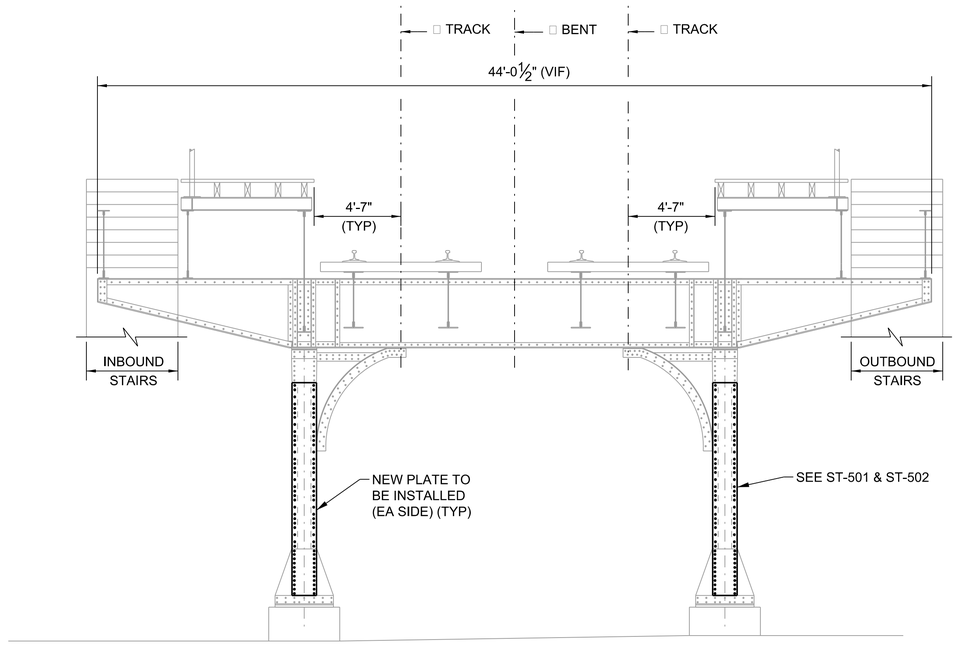
INBOUND

OUTBOUND



1 / ST-207 ELEVATION - BENT 162 (LOOKING NORTHWEST)

SCALE: 1/4"=1'-0"



2 / ST-207 EXISTING BENT 162 MODIFICATION DETAIL

SCALE: 1/4"=1'-0"

NOTES:

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0 2' 4' 8'

SCALE: 1/4"=1'-0"

HNTB Corporation
One South Wacker Drive, Suite 2500
Chicago, Illinois 60606
(312) 930-9119

CHICAGO TRANSIT AUTHORITY
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CHICAGO, ILLINOIS 60647

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DRAWN BY	M. ROLKOWSKI

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0	12/30/24	ISSUE FOR BID

EXISTING STEEL MODIFICATIONS (SHEET 8 OF 10)

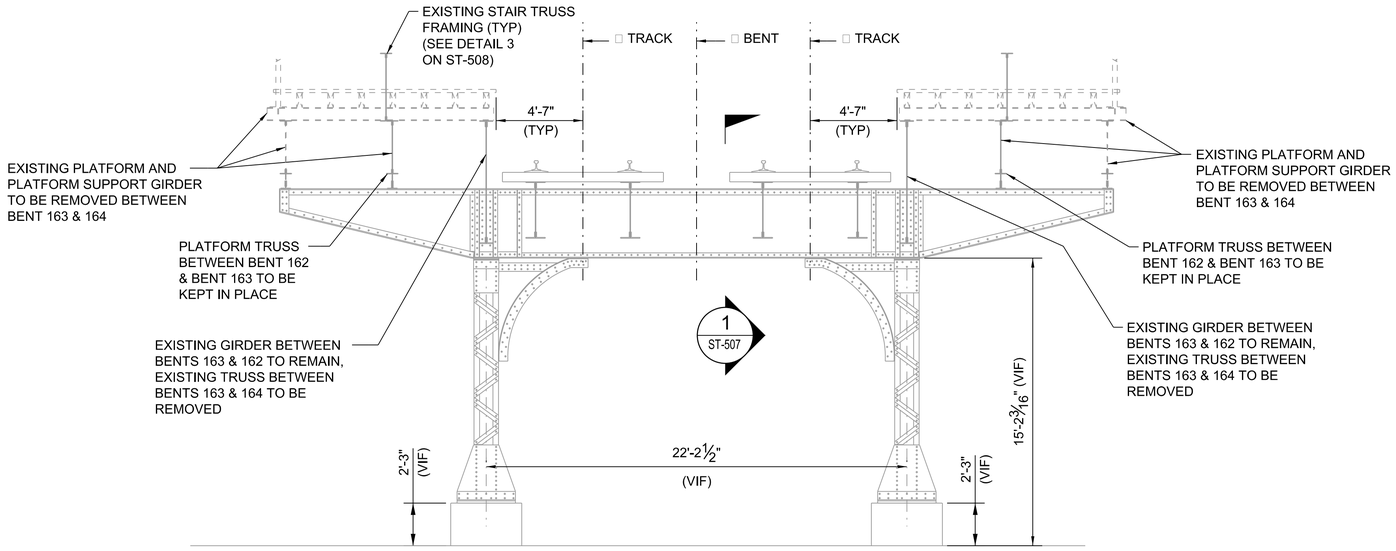
LSCAL | ST-207

VOLUME: X OF X

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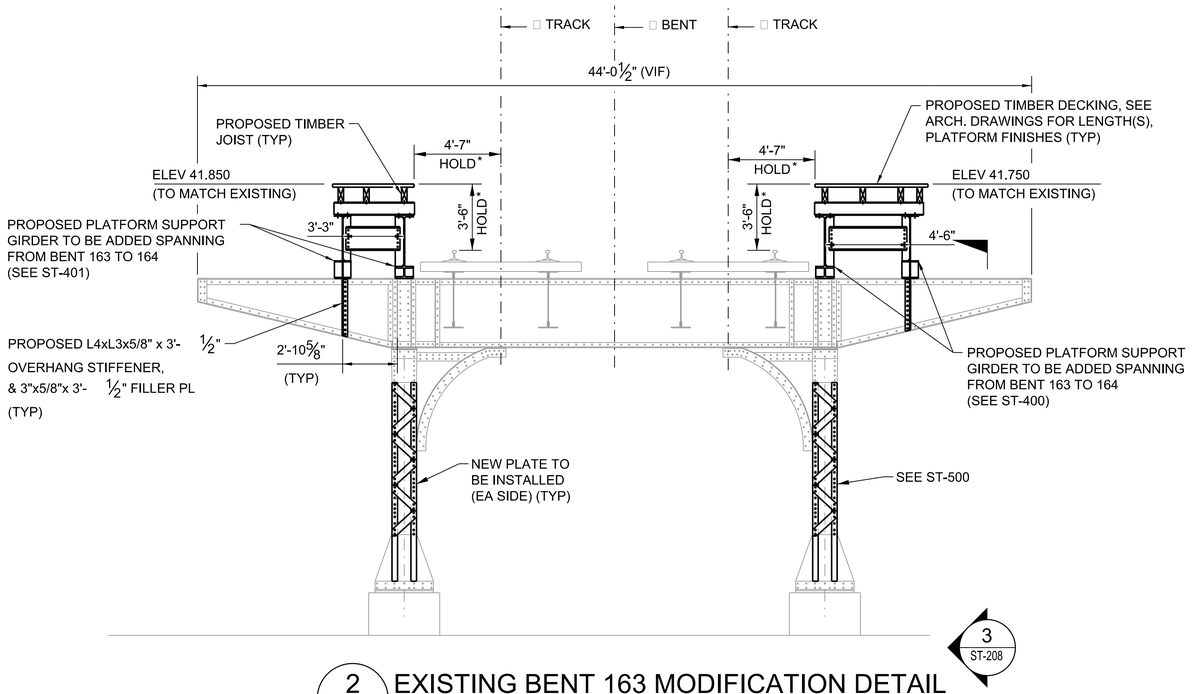
INBOUND

OUTBOUND



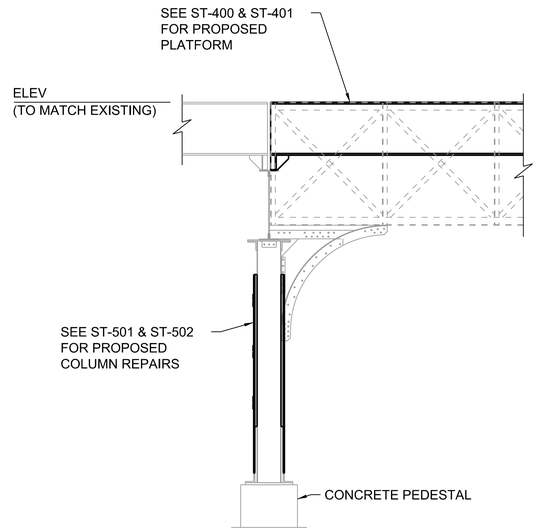
1 / ST-208 ELEVATION - BENT 163 (LOOKING NORTHWEST)

SCALE: 1/4"=1'-0"



2 / ST-208 EXISTING BENT 163 MODIFICATION DETAIL

SCALE: 1/4"=1'-0"



3 / ST-208 COLUMN ELEVATION (LOOKING SOUTHWEST)

SCALE: 1/4"=1'-0"

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0 2' 4' 8'

SCALE: 1/4"=1'-0"

* CONTRACTOR MUST CONTINUOUSLY CHECK DIMENSIONS WHILE INSTALLING PLATFORM TIMBER AND SHIM WHERE NEEDED

HNTB Corporation
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Chicago, Illinois 60606
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CHICAGO TRANSIT AUTHORITY
ENGINEERING

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LOGAN SQUARE LINE - CALIFORNIA STATION

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DESIGNED BY	S. HOANG
DRAWN BY	M. ROLKOWSKI

MARK	DATE	DESCRIPTION
0	12/30/24	ISSUE FOR BID

EXISTING STEEL MODIFICATIONS (SHEET 9 OF 10)

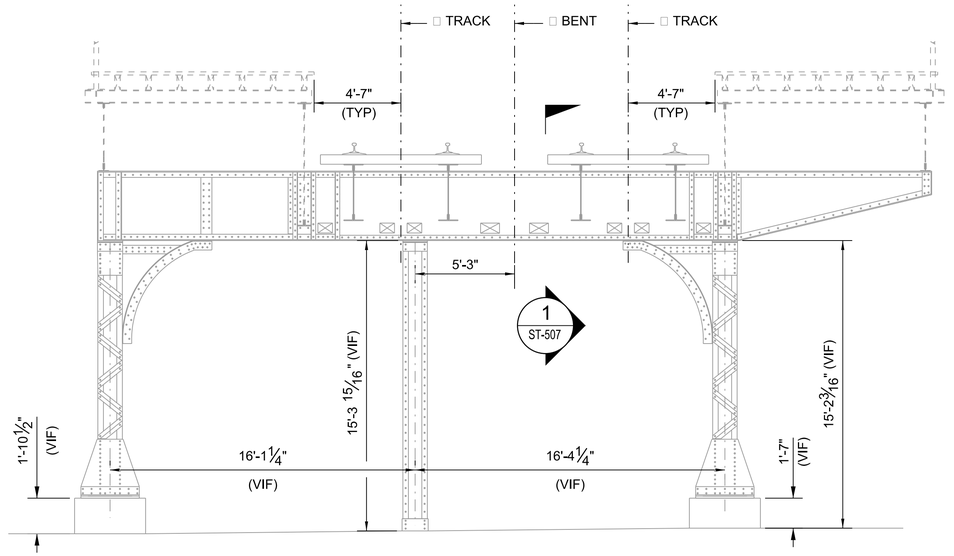
LSCAL | ST-208

VOLUME: X OF X

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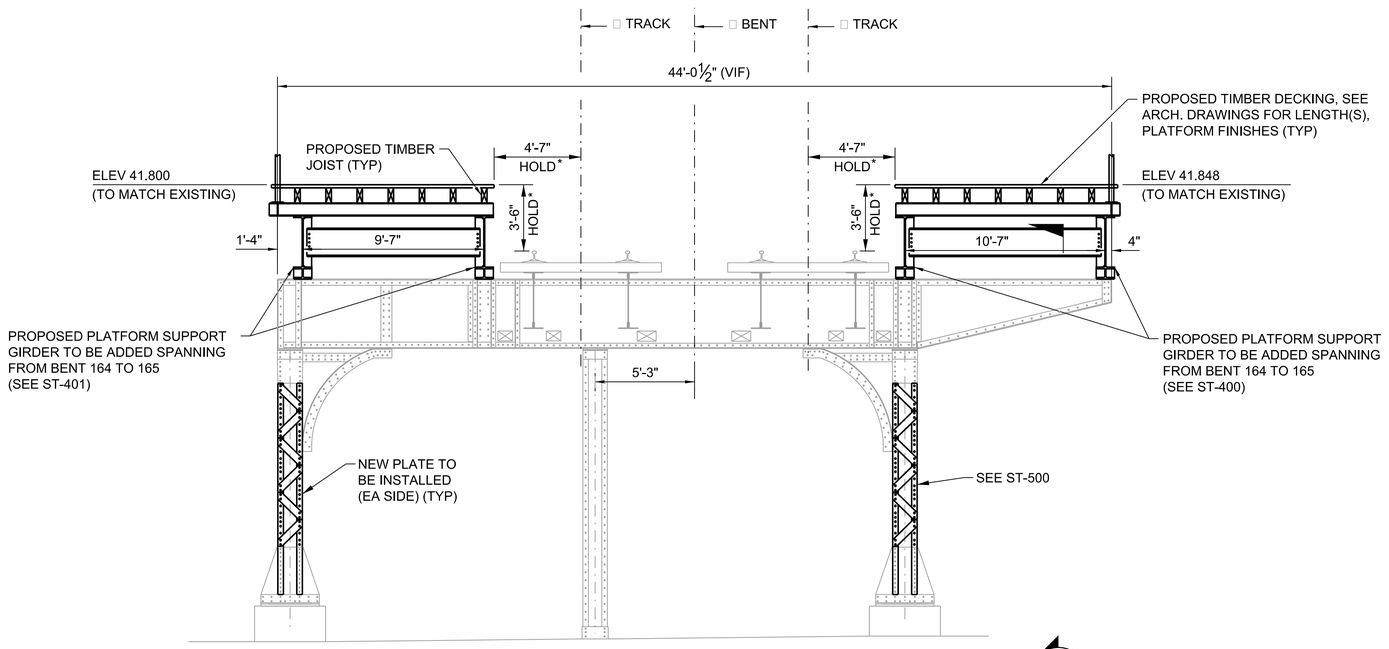
INBOUND

OUTBOUND



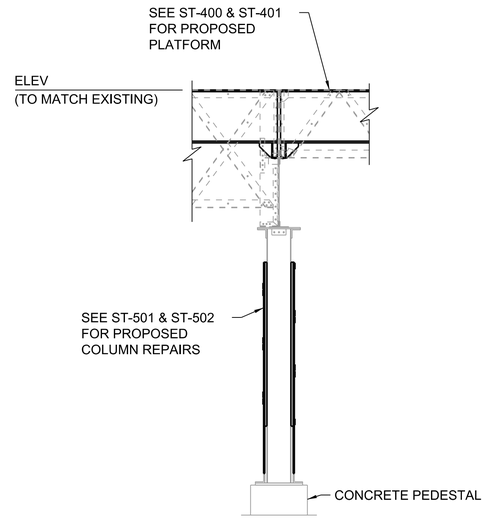
1 ST-209 ELEVATION - BENT 164 (LOOKING NORTHWEST)

SCALE: 1/4"=1'-0"



2 ST-209 EXISTING BENT 164 MODIFICATION DETAIL

SCALE: 1/4"=1'-0"



3 ST-209 COLUMN ELEVATION (LOOKING SOUTHWEST)

SCALE: 1/4"=1'-0"

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0 2' 4' 8'

SCALE: 1/4"=1'-0"

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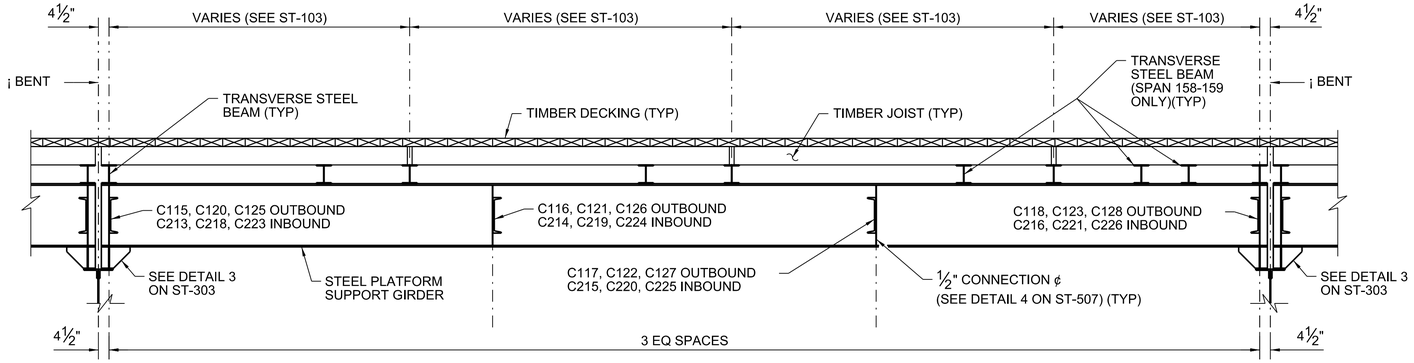
MARK	DATE	DESCRIPTION
0	12/30/24	ISSUE FOR BID

EXISTING STEEL MODIFICATIONS (SHEET 10 OF 10)

LSCAL | ST-209

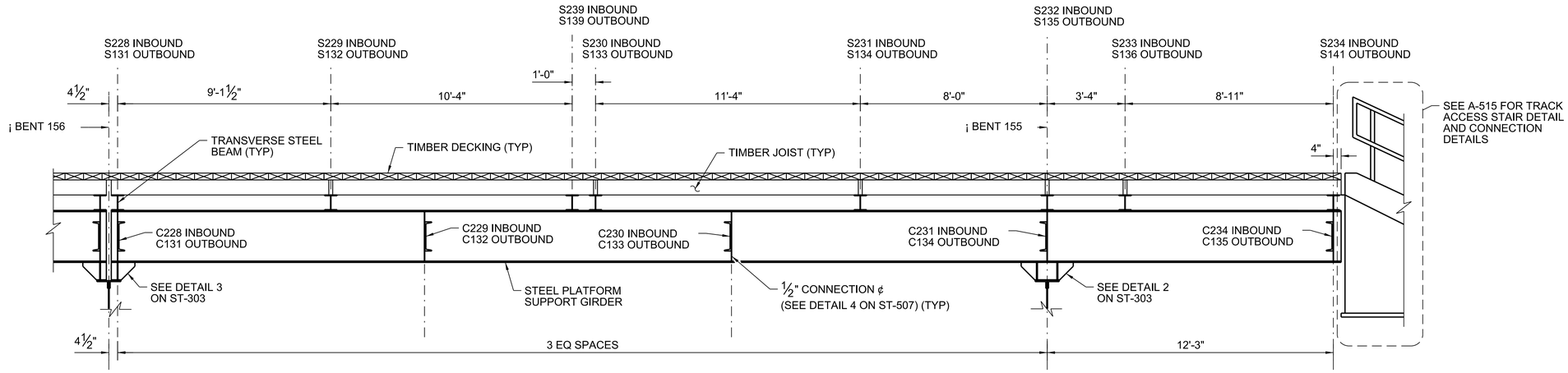
VOLUME: X OF X

PLOTTED ON: 11/5/2024 3:41:35 PM ...\02_Sheets\071_LSCAL_ST-209.dgn



1 / ST-300 TYPICAL PLATFORM SUPPORT GIRDER (BENTS 159-156)

(LOOKING NORTHEAST) SCALE: 3/8"=1'-0"



2 / ST-300 PLATFORM SUPPORT GIRDER (BENTS 156-155)

(LOOKING NORTHEAST) SCALE: 3/8"=1'-0"

NOTES:

1. SEE ST-600 FOR STEEL MEMBER SIZES. SEE ST-103 FOR STEEL MEMBER DESIGNATIONS. SEE SHEET ST-510 FOR CONNECTION DETAILS NOT SPECIFIED.

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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	S. LLURI
CHECKED BY	P. BUSCH
DESIGNED BY	S. HOANG
DRAWN BY	M. ROLKOWSKI

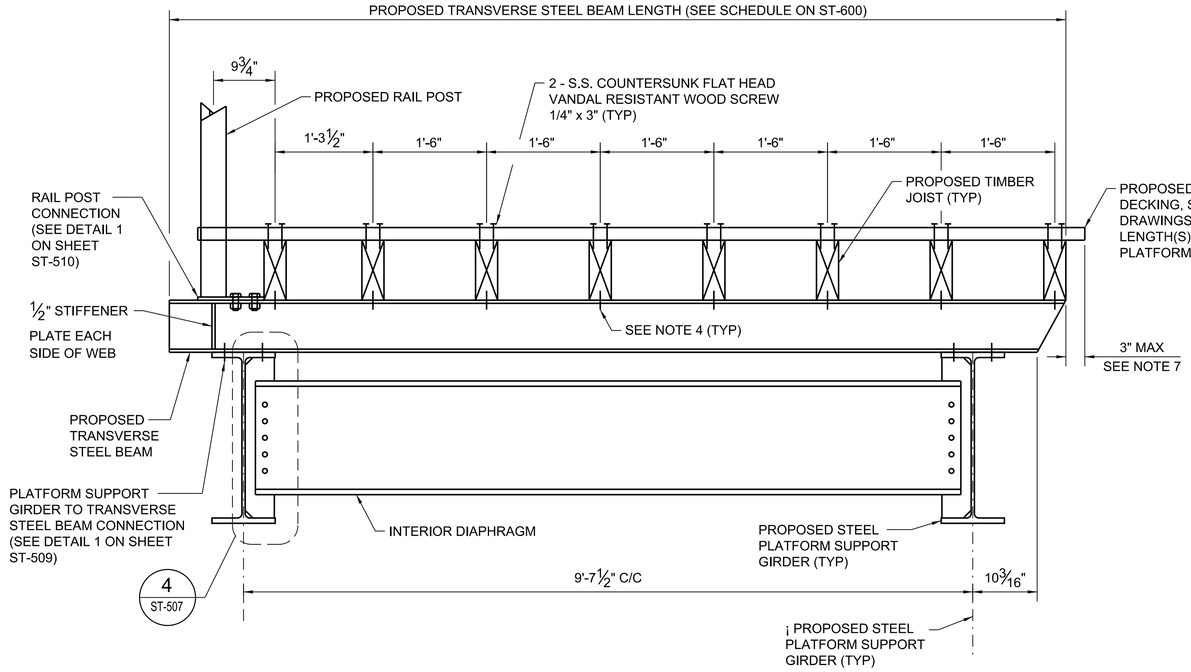
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0	12/30/24	ISSUE FOR BID

PLATFORM TYPICAL SECTIONS - 1

LSCAL | ST-300

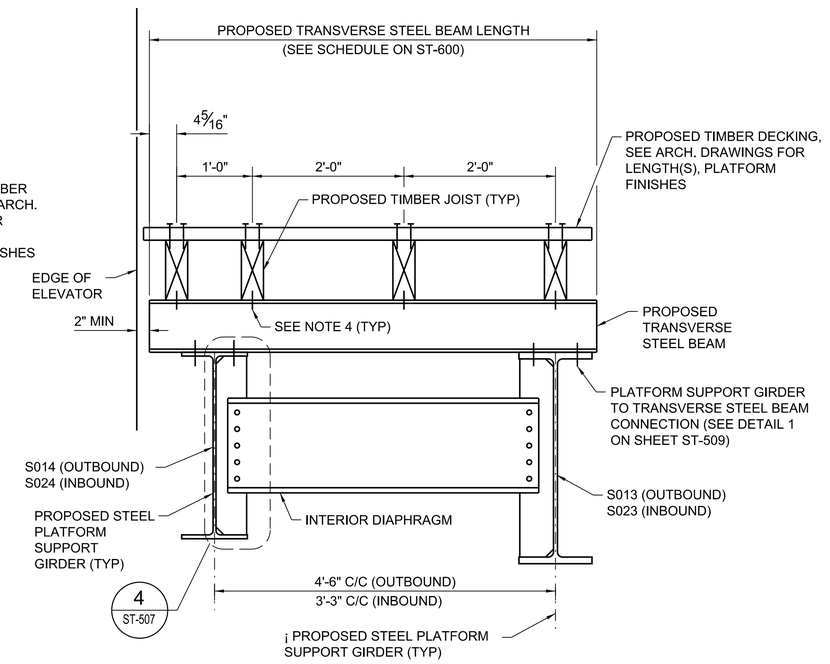
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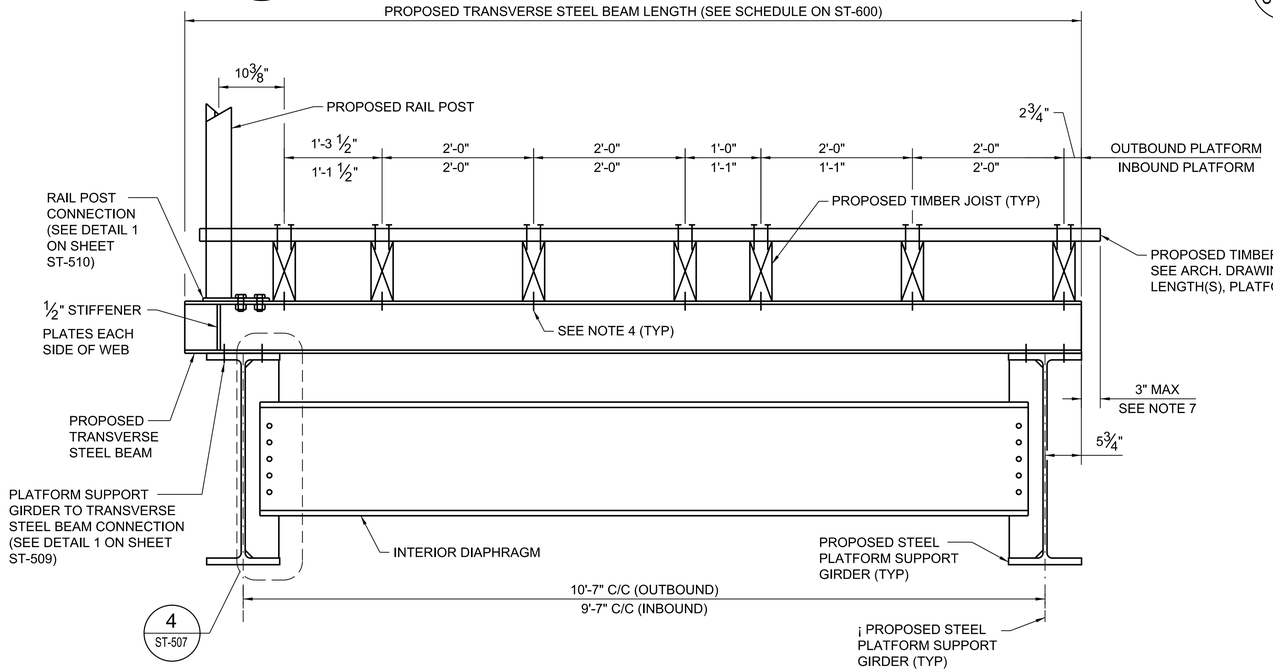
1 ST-301 PLATFORM SECTION BETWEEN BENTS 159 AND 155

SCALE: 1"=1'-0"



3 ST-301 PLATFORM SECTION ADJACENT TO ELEVATOR

SCALE: 1"=1'-0"



2 ST-301 STANDARD PLATFORM SECTION BETWEEN BENTS 165 AND 163

SCALE: 1"=1'-0"

NOTES:

1. TIMBER JOIST SHALL BE SOUTHERN PINE PER SPECIFICATION SECTION 06 15 00, 2.01.A.
2. TIMBER JOIST ASSUMED TO BE SIMPLY SUPPORTED BY STEEL BEAMS.
3. AT TRANSITION ZONE NOTCHES WILL NEED TO BE VARIED.
4. PROVIDE 1- ½" DIA. x 2 ¼" LAG SCREW AT EACH JOIST END WITH GALVANIZED STEEL WASHER. USE ⅝" DIA. PREDRILLED HOLE IN STEEL BEAM FLANGE.
5. SEE SHEET ST-510 FOR CONNECTION DETAILS NOT SPECIFIED.
6. PLACE ¾" DIA. HIGH STRENGTH BOLTS IN ABANDONED HOLES IN EXISTING TOP FLANGE OF PLATFORM STRUCTURE.
7. WOOD DECKING CANTILEVER VARIES FROM 0" TO 3" MAX, AS REQUIRED IN THE FIELD TO ENSURE 4'-7" HOLD IS MAINTAINED ALONG LENGTH OF BOARDING PLATFORM. TREAT ANY TRIMMED ENDS WITH PRESERVATIVES. CONTRACTOR TO PROVIDE A MINIMUM OF 2 SCREWS PER DECK PLANK AT EACH END TIMBER JOIST AND CENTER JOIST.
8. CONTRACTOR TO PROVIDE A MINIMUM OF 2 SCREWS PER DECK PLANK AT EACH END TIMBER JOIST AND CENTER JOIST.

HNTB Corporation
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CHICAGO TRANSIT AUTHORITY
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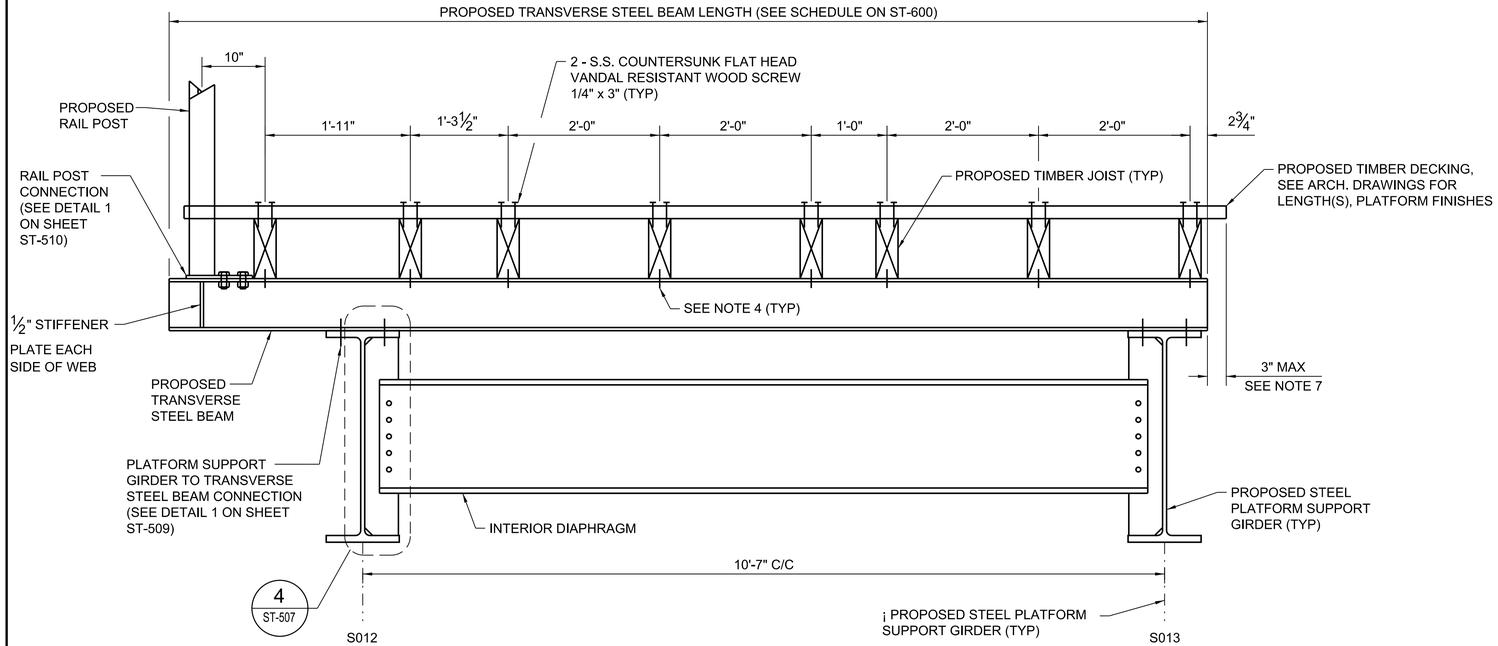
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PLATFORM TYPICAL SECTIONS - 2

LSCAL | ST-301

VOLUME: X OF X

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1 / ST-302 WIDENED OUTBOUND PLATFORM SECTION BETWEEN BENTS 164 AND 163

SCALE: 1"=1'-0"

NOTES:

1. TIMBER JOIST SHALL BE SOUTHERN PINE PER SPECIFICATION SECTION 06 15 00, 2.01.A.
2. TIMBER JOIST ASSUMED TO BE SIMPLY SUPPORTED BY STEEL BEAMS.
3. AT TRANSITION ZONE NOTCHES WILL NEED TO BE VARIED.
4. PROVIDE 1- ½" DIA. x 2 ¼" LAG SCREW AT EACH JOIST END WITH GALVANIZED STEEL WASHER. USE ⅝" DIA. PREDRILLED HOLE IN STEEL BEAM FLANGE.
5. SEE SHEET ST-510 FOR CONNECTION DETAILS NOT SPECIFIED.
6. PLACE ¾" DIA. HIGH STRENGTH BOLTS IN ABANDONED HOLES IN EXISTING TOP FLANGE OF PLATFORM STRUCTURE.
7. WOOD DECKING CANTILEVER VARIES FROM 0" TO 3" MAX, AS REQUIRED IN THE FIELD TO ENSURE 4'-7" HOLD IS MAINTAINED ALONG LENGTH OF BOARDING PLATFORM. TREAT ANY TRIMMED ENDS WITH PRESERVATIVES. CONTRACTOR TO PROVIDE A MINIMUM OF 2 SCREWS PER DECK PLANK AT EACH END TIMBER JOIST AND CENTER JOIST.
8. CONTRACTOR TO PROVIDE A MINIMUM OF 2 SCREWS PER DECK PLANK AT EACH END TIMBER JOIST AND CENTER JOIST.

0 1' 2'
SCALE: 1"=1'-0"

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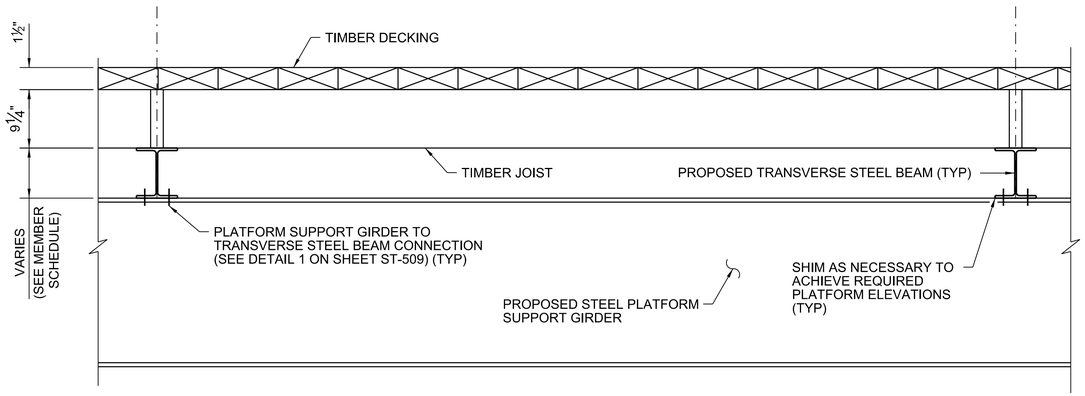
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PLATFORM TYPICAL SECTIONS - 3

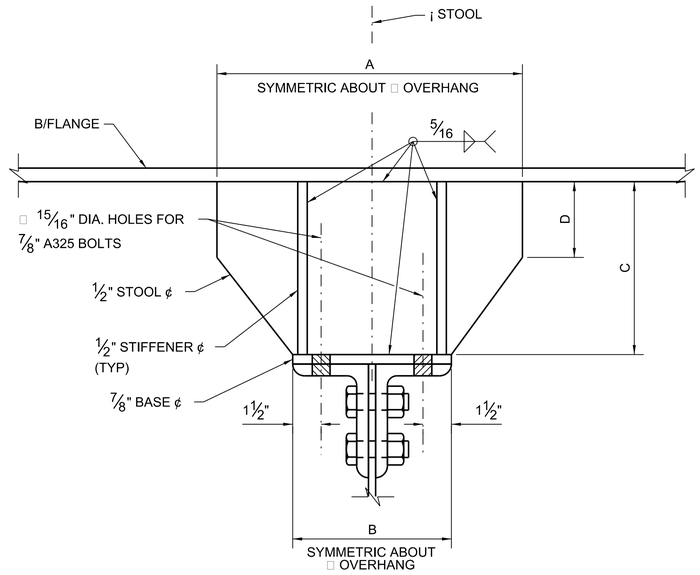
LSCAL | ST-302

VOLUME: X OF X

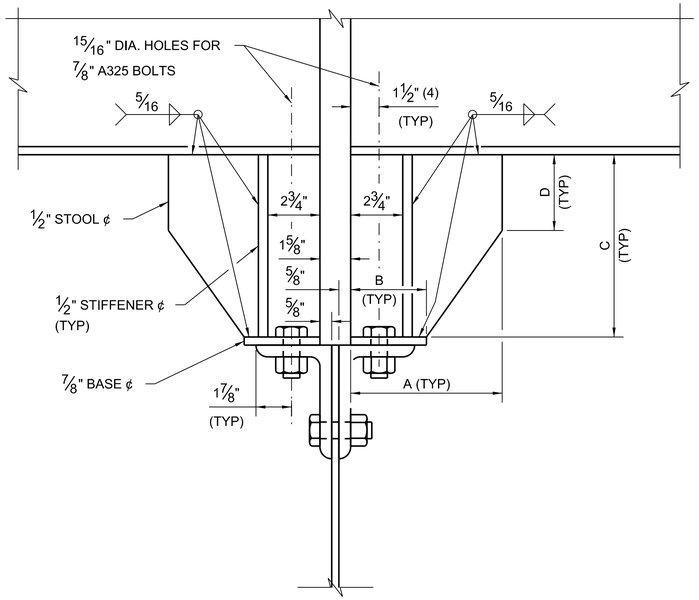
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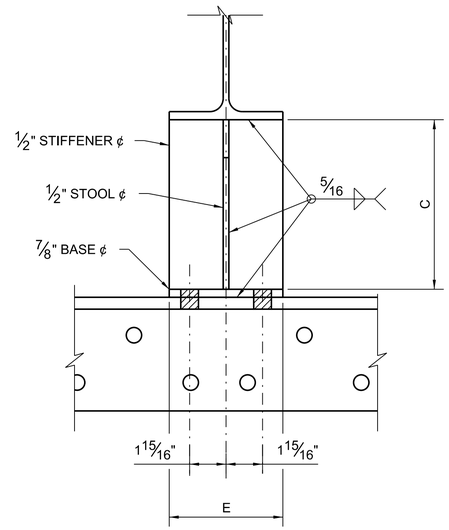
1 / ST-303 SECTION
SCALE: 1"=1'-0"



2 / ST-303 STOOL TYPE ST-1
SCALE: 3"=1'-0"



3 / ST-303 STOOL TYPE ST-2, ST-3 AND ST-4
SCALE: 3"=1'-0"



4 / ST-303 TYPICAL BEAM STOOL SECTION
SCALE: 3"=1'-0"

STEEL STOOL DIMENSIONS					
STOOL TYPE	DIMENSIONS				
	A	B	C	D	E
ST-1	1'-4 3/8"	8 3/8"	1'-4"	4"	10"
ST-2	8"	4"	1'-4"	4"	10"
ST-3	8"	4"	9 5/8"	4"	11 5/8"
ST-4	8"	4"	1'-1 5/8"	4"	10 3/8"

NOTES:

1. ALL BOLTS ARE 7/8" DIA. A325-SCA SLIP CRITICAL, TYP., UNLESS OTHERWISE NOTED.
2. REMOVE EXISTING BOLTS AND REUSE BOLT HOLES WHERE INDICATED. FIELD VERIFY LOCATION OF EXISTING HOLES PRIOR TO FABRICATION.
3. SEE SHEETS ST-103, ST-400 AND ST-401 FOR FRAMING GIRDER SPACING AND SIZING.
4. FOR STOOLS CONNECTING TO EXISTING STEEL, USE EXISTING BOLT HOLES. THIS DIMENSION SHALL BE VERIFIED IN FIELD.

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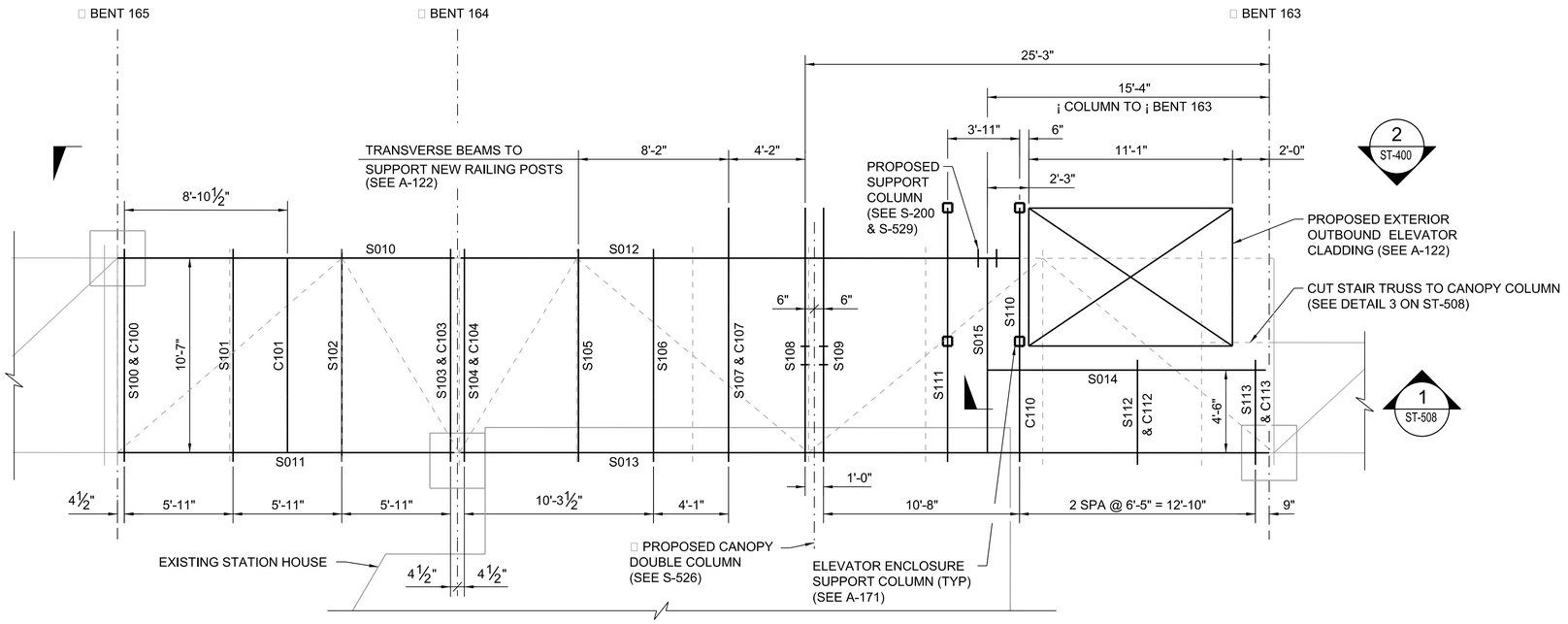
MARK	DATE	DESCRIPTION
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PLATFORM TYPICAL SECTIONS - 4

LSCAL | ST-303

VOLUME: X OF X

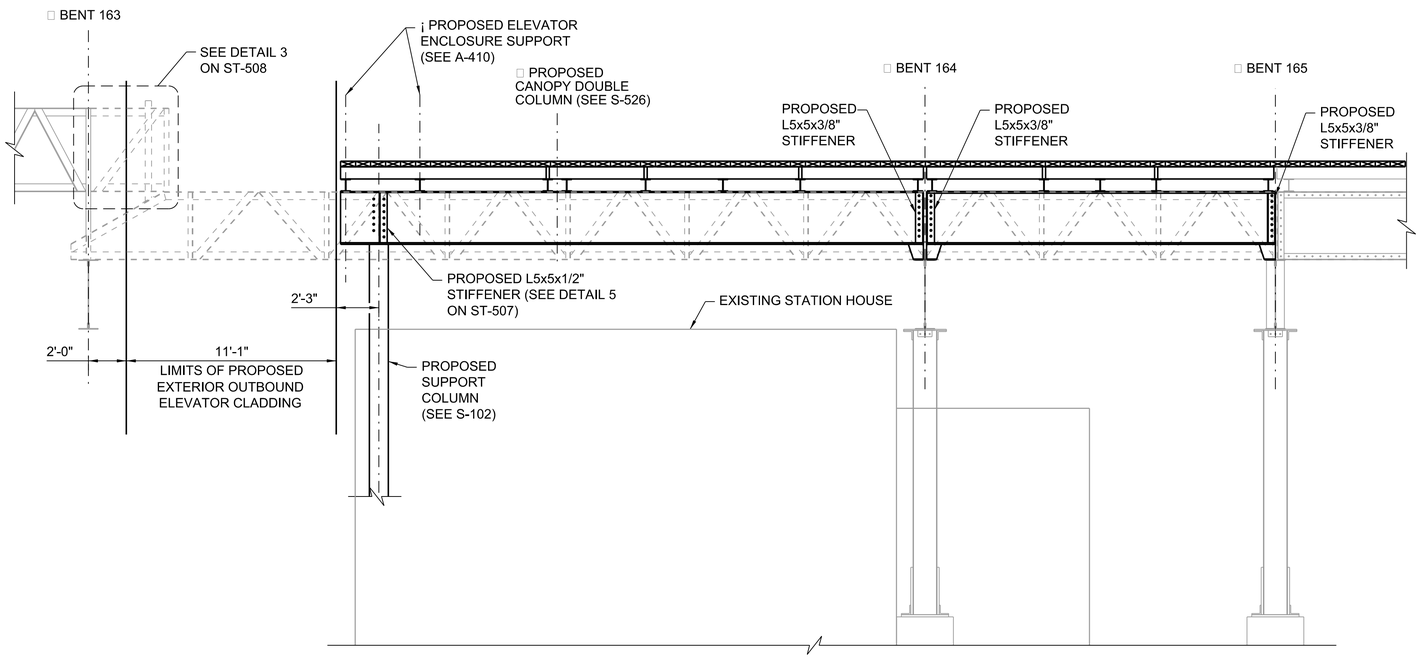
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1 ST-400 **OUTBOUND FRAMING PLAN**

SCALE: 1/4"=1'-0"

NORTH



2 ST-400 **OUTBOUND PLATFORM ELEVATION VIEW**

LOOKING SOUTHWEST

SCALE: 1/4"=1'-0"

NOTES:

1. ALL METAL COMPONENTS ASSOCIATED WITH THE ELEVATOR SYSTEM AND ENCLOSURE SHALL BE ISOLATED FROM TRACK AND PLATFORM STRUCTURE. SEE ARCHITECTURE PLANS FOR PROCEDURES AND NOTES.

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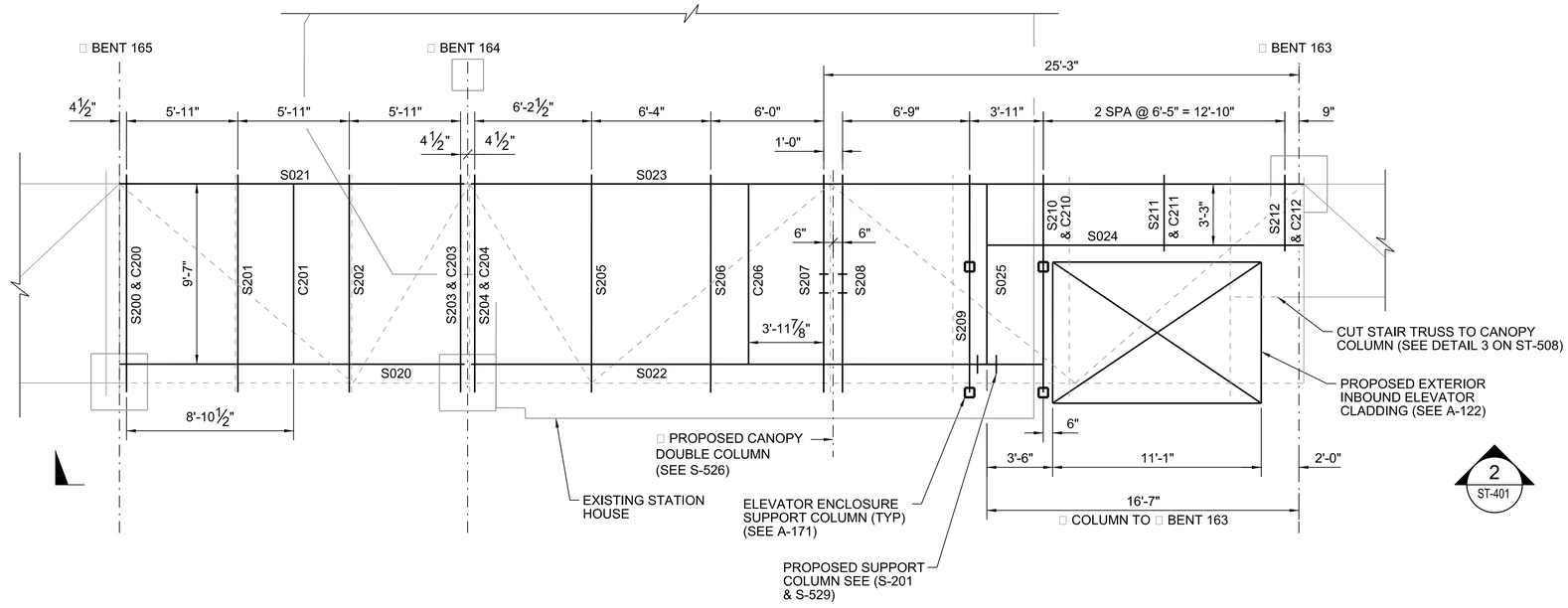
MARK	DATE	DESCRIPTION
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OUTBOUND ELEVATOR FRAMING PLAN

LSCAL | ST-400

VOLUME: X OF X

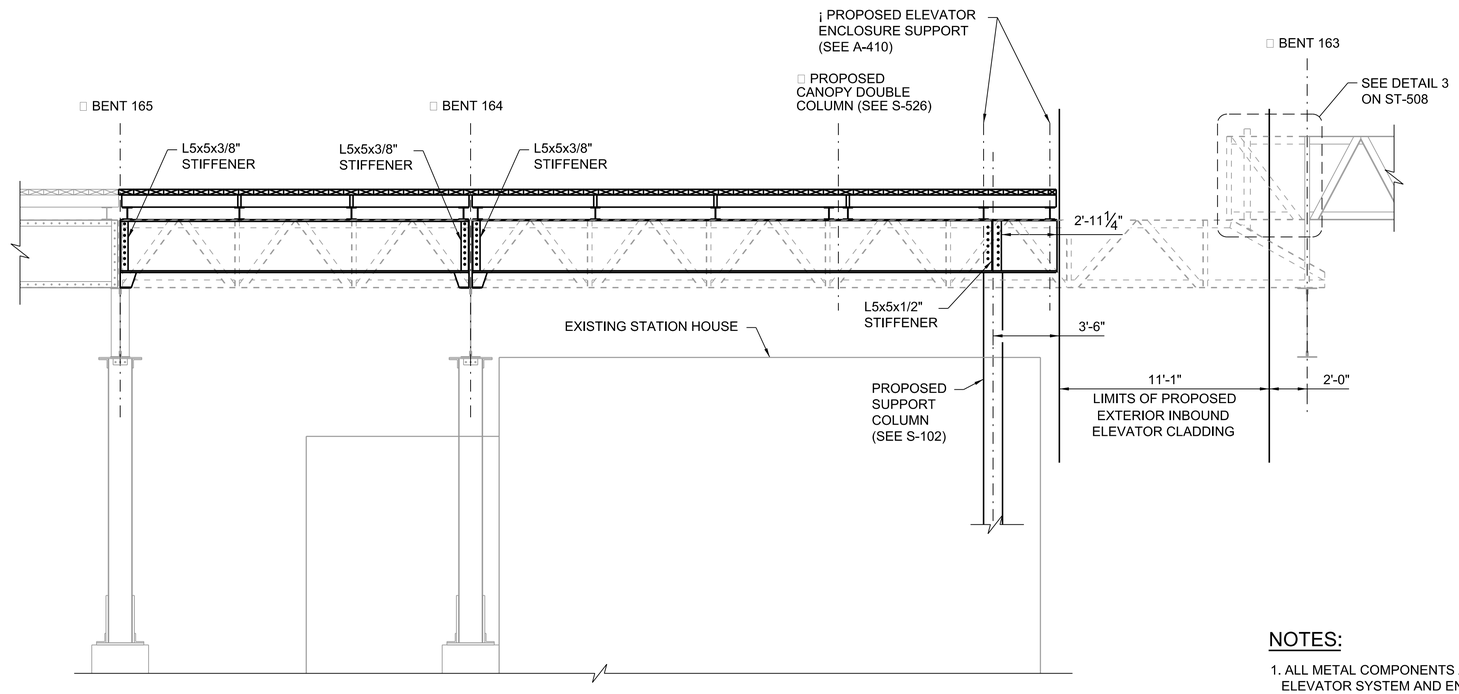
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1 / ST-401 INBOUND FRAMING PLAN

SCALE: 3/8"=1'-0"

NORTH



2 / ST-401 INBOUND PLATFORM ELEVATION VIEW

LOOKING NORTHEAST

SCALE: 1/4"=1'-0"

NOTES:

1. ALL METAL COMPONENTS ASSOCIATED WITH THE ELEVATOR SYSTEM AND ENCLOSURE SHALL BE ISOLATED FROM TRACK AND PLATFORM STRUCTURE. SEE ARCHITECTURE PLANS FOR PROCEDURES AND NOTES.

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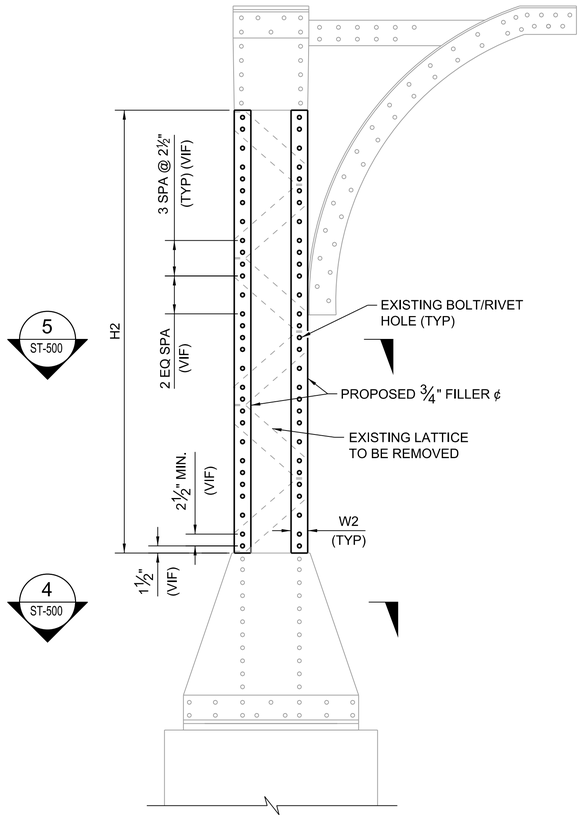
MARK	DATE	DESCRIPTION
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INBOUND ELEVATOR FRAMING PLAN

LSCAL | ST-401

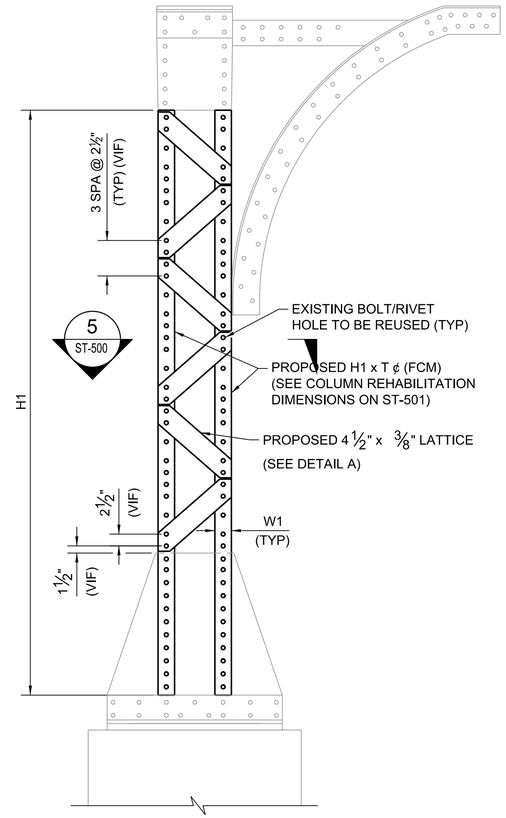
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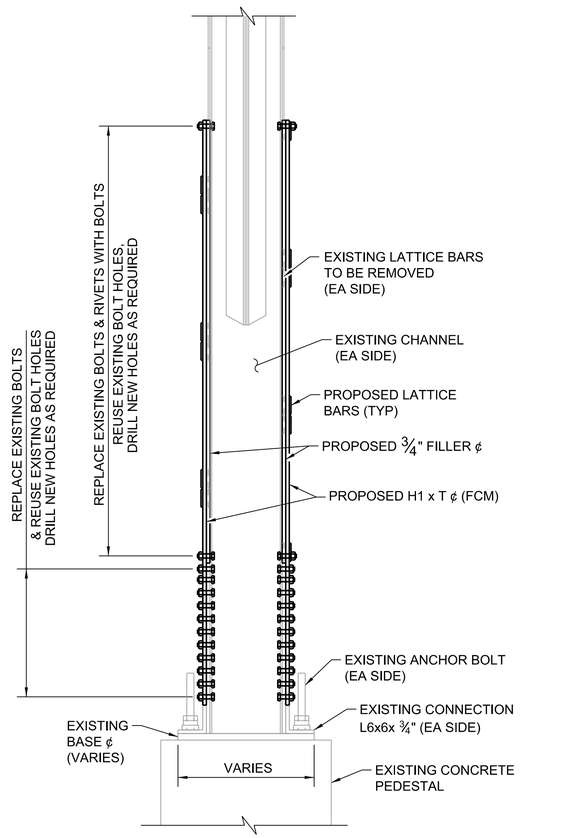
1 ST-500 TYPICAL EXISTING & PROPOSED COLUMN ELEVATION (BENTS 155-164)

LOOKING NORTHWEST/SOUTHEAST SCALE: 3/4"=1'-0"



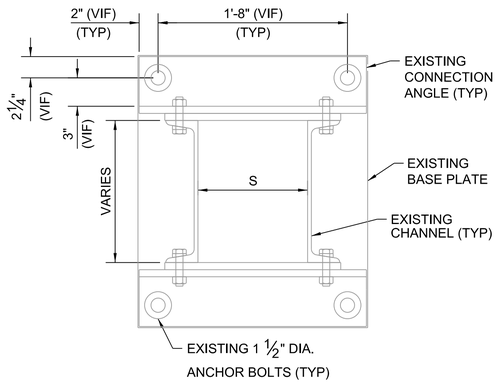
2 ST-500 PROPOSED COLUMN ELEVATION (BENTS 163 AND 164)

SCALE: 3/4"=1'-0"



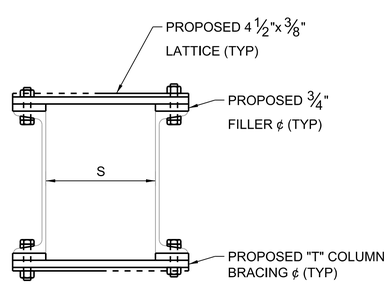
3 ST-500 PROPOSED COLUMN SIDE ELEVATION (BENTS 163 AND 164)

SCALE: 3/4"=1'-0"



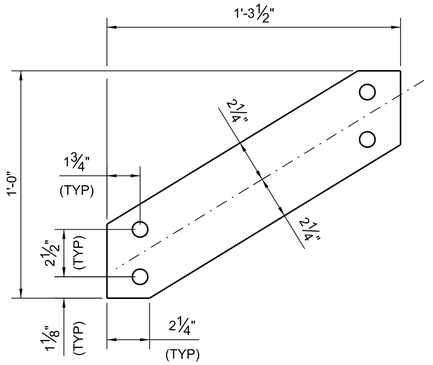
4 ST-500 BASE PLATE PLAN VIEW

SCALE: 1 1/2"=1'-0"



5 ST-500 COLUMN SECTION VIEW

SCALE: 1 1/2"=1'-0"



A ST-500 LATTICE DETAIL

SCALE: 1 1/2"=1'-0"

NOTES:

1. WORK THIS SHEET WITH SHEETS ST-200 THROUGH ST-209.
2. REMOVE EXISTING RIVETS AT LOCATION OF NEW BOLTS WHERE INDICATED. FIELD VERIFY LOCATION OF EXISTING HOLES PRIOR TO FABRICATION OF CONNECTION ELEMENTS.
3. LIVE LOAD SHORING, PER SHEET SX-301 TO BE IN PLACE PRIOR TO RIVET REMOVAL.
4. ALL DIMENSIONS AND MEMBERS WERE DETERMINED FROM FIELD MEASUREMENTS AND MAY VARY FROM ACTUAL CONDITIONS. CONTRACTOR TO VERIFY IN FIELD.
5. FIELD VERIFY THE LOCATION AND SPACING OF EXISTING BOLT/RIVET HOLES PRIOR TO FABRICATION.
6. ALL BOLTS ARE 7/8" DIA. A325-SCA SLIP CRITICAL, TYP. UNLESS NOTED OTHERWISE.
7. FOR COLUMN REHABILITATION DIMENSIONS SEE SHEETS ST-501 AND ST-502.

0 1' 2' SCALE: 3/4"=1'-0"

0 2' 4' 8' SCALE: 1/4"=1'-0"

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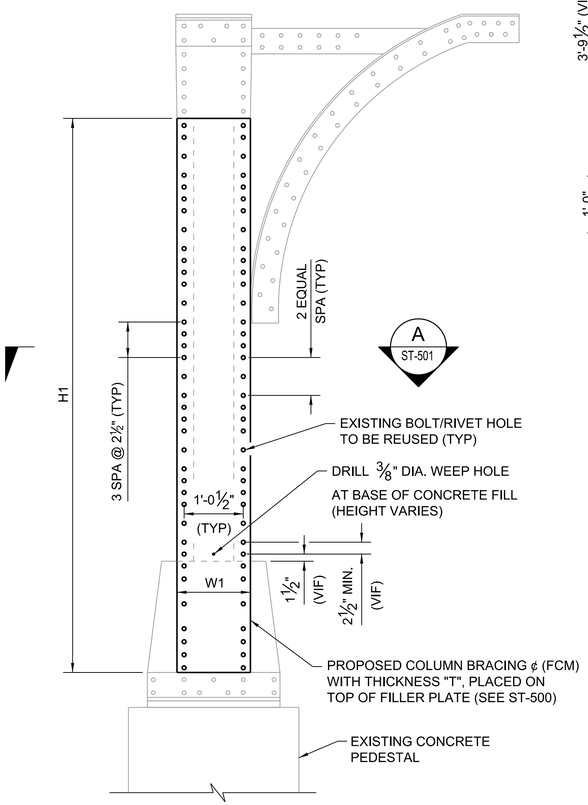
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COLUMN TYPICAL DETAILS - 1

LSCAL | ST-500

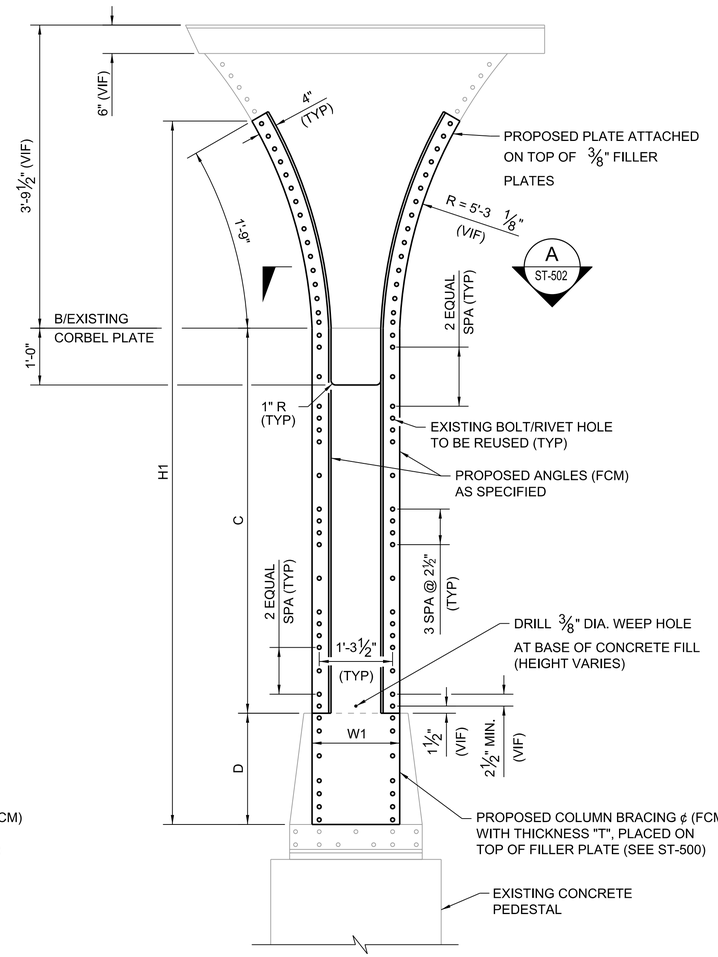
VOLUME: X OF X

...\02_Sheets\071_LSCAL_ST-500.dgn
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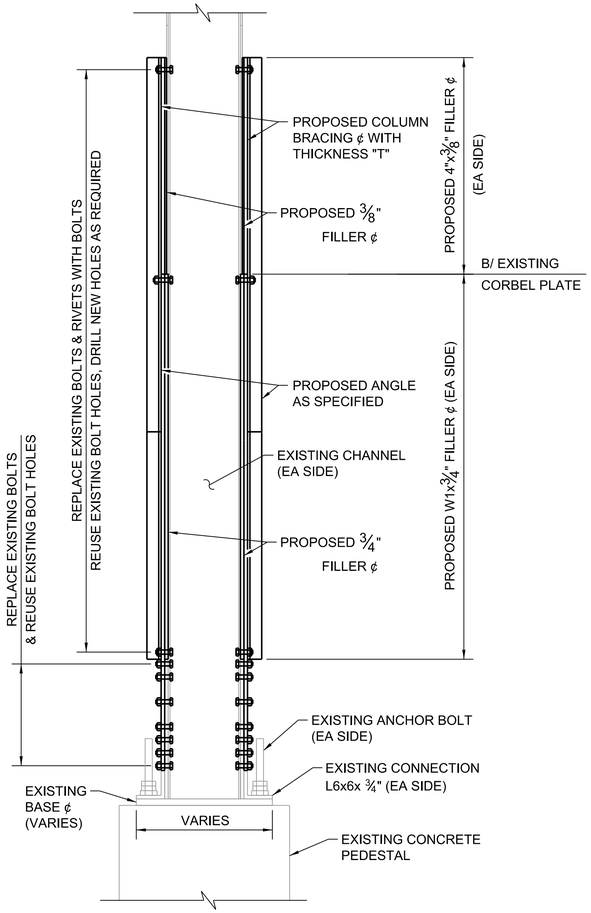
1 ST-501 PROPOSED COLUMN ELEVATION (BENTS 159 - 162)

SCALE: 3/4"=1'-0"



2 ST-501 PROPOSED COLUMN ELEVATION (BENTS 155 - 158)

SCALE: 3/4"=1'-0"



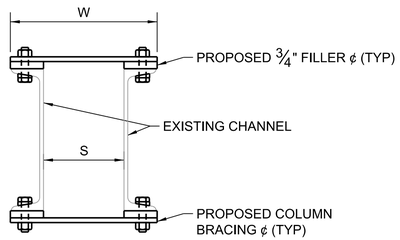
3 ST-501 PROPOSED COLUMN SIDE ELEVATION (BENTS 159 AND 164)

SCALE: 3/4"=1'-0"

COLUMN REHABILITATION DIMENSIONS

BENT	SIDE	H1	W1	T	S	ANGLES	C	H2	W2	D (VIF)
164*	NORTH & SOUTH	10'-10 ⅜"	3½"	½"	8½"	-	-	8'-4 ⅛"	3½"	2'-6"
163*	SOUTH	8'-11 ⅞"	3¾"	½"	8½"	-	-	6'-5 ⅝"	3¾"	2'-5 ½"
162	NORTH	8'-11 ⅜"	1'-4"	½"	8½"	-	-	7'-2 ¼"	3¾"	2'-5 ½"
161	N/A	-	–		-	-	-	-	-	1'-11 ½"
160	SOUTH	7'-7 ⅜"	1'-4"	½"	8½"	-	-	5'-10 ⅛"	3¾"	1'-11 ½"
159	NORTH & SOUTH	9'- ¼"	1'-4"	½"	8½"	-	-	7'-3 ⅛"	3¾"	2'-6"
158	SOUTH	10'-11 ⅝"	1'-6 ½"	¾"	11½"	L4x4x ⅝	5'-11"	9'-2 ½"	3½"	1'-11 ½"
157	NORTH	11'-9 ⅞"	1'-6 ½"	¾"	11½"	L4x4x ⅝	6'-9"	10'- ¾"	3½"	2'-5 ½"
156	SOUTH	11'-2 ⅜"	1'-6 ½"	¾"	11½"	L4x4x ⅝	6'-2"	9'-5 ¼"	3½"	2'-6"
155	NORTH	11'- ⅜"	1'-6 ½"	¾"	11½"	L4x4x ⅝	6'-0"	9'-3 ¼"	3½"	2'-0"

*SEE ST-500



A ST-501 PROPOSED COLUMN SECTION

SCALE: 1 1/2"=1'-0"

NOTES:

1. WORK THIS SHEET WITH SHEETS ST-200 THROUGH ST-209.
2. REMOVE EXISTING RIVETS AT LOCATION OF NEW BOLTS WHERE INDICATED. FIELD VERIFY LOCATION OF EXISTING HOLES PRIOR TO FABRICATION OF CONNECTION ELEMENTS.
3. LIVE LOAD SHORING, PER SHEET SX-301 TO BE IN PLACE PRIOR TO RIVET REMOVAL.
4. ALL DIMENSIONS AND MEMBERS WERE DETERMINED FROM FIELD MEASUREMENTS AND MAY VARY FROM ACTUAL CONDITIONS. CONTRACTOR TO VERIFY IN FIELD.
5. FIELD VERIFY THE LOCATION AND SPACING OF EXISTING BOLT/RIVET HOLES PRIOR TO FABRICATION.
6. ALL BOLTS ARE 7/8" DIA. A325-SCA SLIP CRITICAL, TYP. UNLESS NOTED OTHERWISE.

HNTB Corporation
One South Wacker Drive, Suite 2500
Chicago, Illinois 60606
(312) 930-9119

CHICAGO TRANSIT AUTHORITY
ENGINEERING

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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	S. LLURI
CHECKED BY	P. BUSCH
DESIGNED BY	S. HOANG
DRAWN BY	M. ROLKOWSKI

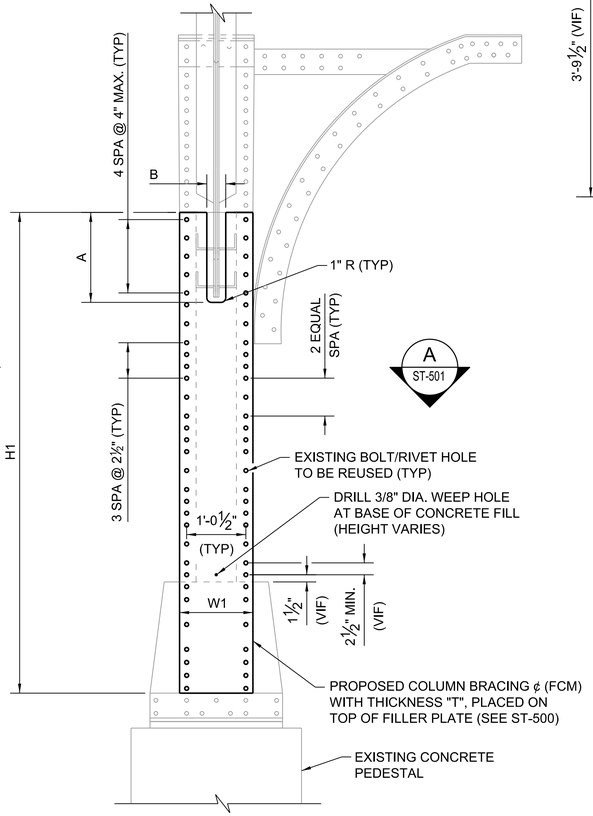
MARK	DATE	DESCRIPTION
0	12/30/24	ISSUE FOR BID

COLUMN TYPICAL DETAILS - 2

LSCAL | ST-501

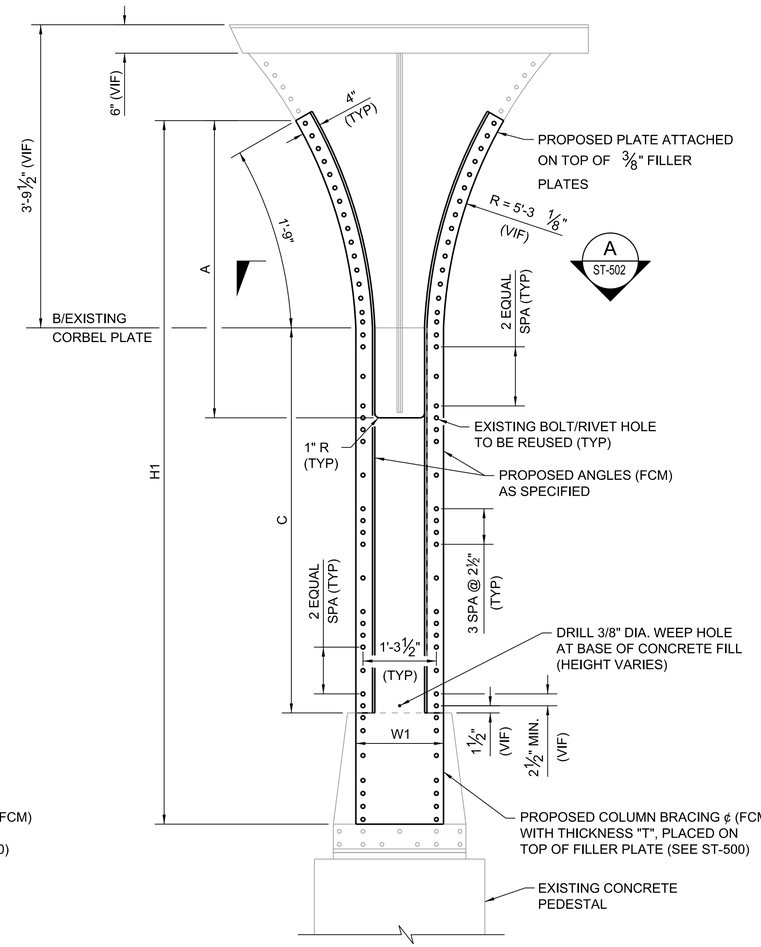
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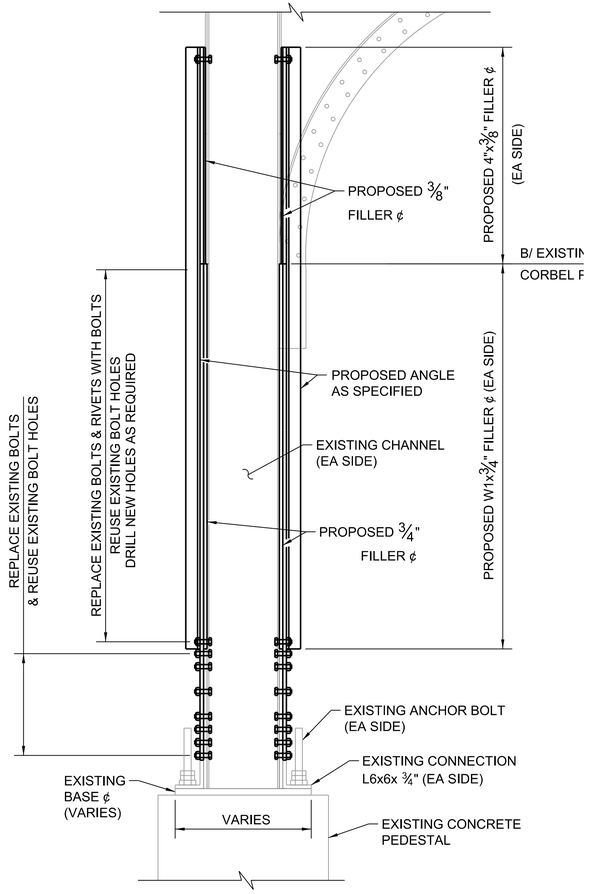
1 ST-502 PROPOSED COLUMN ELEVATION (BENTS 159 - 162)

SCALE: 3/4"=1'-0"



2 ST-502 PROPOSED COLUMN ELEVATION (BENTS 155 - 158)

SCALE: 3/4"=1'-0"



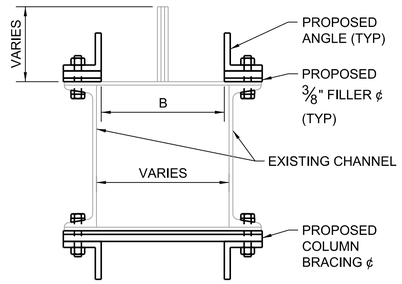
3 ST-502 PROPOSED COLUMN SIDE ELEVATION (BENTS 155 - 158, 160 - 163)

SCALE: 3/4"=1'-0"

COLUMN REHABILITATION DIMENSIONS

BENT	SIDE	H1	W1	T	S	A	B	ANGLES	C	H2	W2
164*	N/A	-	-	-	-	-	-	-	-	-	-
163*	NORTH	8'-11 7/8"	3¾"	½"	8½"	1'-8¾"	4"	-	-	6'-5 5/8"	3¾"
162	SOUTH	8'-11 3/8"	1'-4"	½"	8½"	1'-8¾"	4"	-	-	7'-2 ¼"	3¾"
161	NORTH & SOUTH	7'-5 ½"	1'-4"	½"	8½"	1'-8¾"	4"	-	-	5'-8 ¼"	3¾"
160	NORTH	7'-7 3/8"	1'-4"	½"	8½"	1'-8¾"	4"	-	-	5'-10 ⅛"	3¾"
159	N/A	-	-	-	-	-	-	-	-	-	-
158	NORTH	10'-11 5/8"	1'-6½"	¾"	11½"	4'-10"	-	L4x4x 5/8	5'-11"	9'-2 ½"	3½"
157	SOUTH	11'-9 7/8"	1'-6½"	¾"	11½"	4'-10"	-	L4x4x 5/8	6'-9"	10'- ¾"	3½"
156	NORTH	11'-2 3/8"	1'-6½"	¾"	11½"	4'-10"	-	L4x4x 5/8	6'-2"	9'-5 ¼"	3½"
155	SOUTH	11'- 3/8"	1'-6½"	¾"	11½"	4'-10"	-	L4x4x 5/8	6'-0"	9'-3 ¼"	3½"

*SEE ST-500



A ST-502 PROPOSED COLUMN SECTION

SCALE: 1 1/2"=1'-0"

NOTES:

1. WORK THIS SHEET WITH SHEETS ST-200 THROUGH ST-209.
2. REMOVE EXISTING RIVETS AT LOCATION OF NEW BOLTS WHERE INDICATED. FIELD VERIFY LOCATION OF EXISTING HOLES PRIOR TO FABRICATION OF CONNECTION ELEMENTS.
3. LIVE LOAD SHORING, PER SHEET SX-301 TO BE IN PLACE PRIOR TO RIVET REMOVAL.
4. ALL DIMENSIONS AND MEMBERS WERE DETERMINED FROM FIELD MEASUREMENTS AND MAY VARY FROM ACTUAL CONDITIONS. CONTRACTOR TO VERIFY IN FIELD.
5. FIELD VERIFY THE LOCATION AND SPACING OF EXISTING BOLT/RIVET HOLES PRIOR TO FABRICATION.
6. ALL BOLTS ARE 7/8" DIA. A325-SCA SLIP CRITICAL, TYP. UNLESS NOTED OTHERWISE.

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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	S. LLURI
CHECKED BY	P. BUSCH
DESIGNED BY	S. HOANG
DRAWN BY	M. ROLKOWSKI

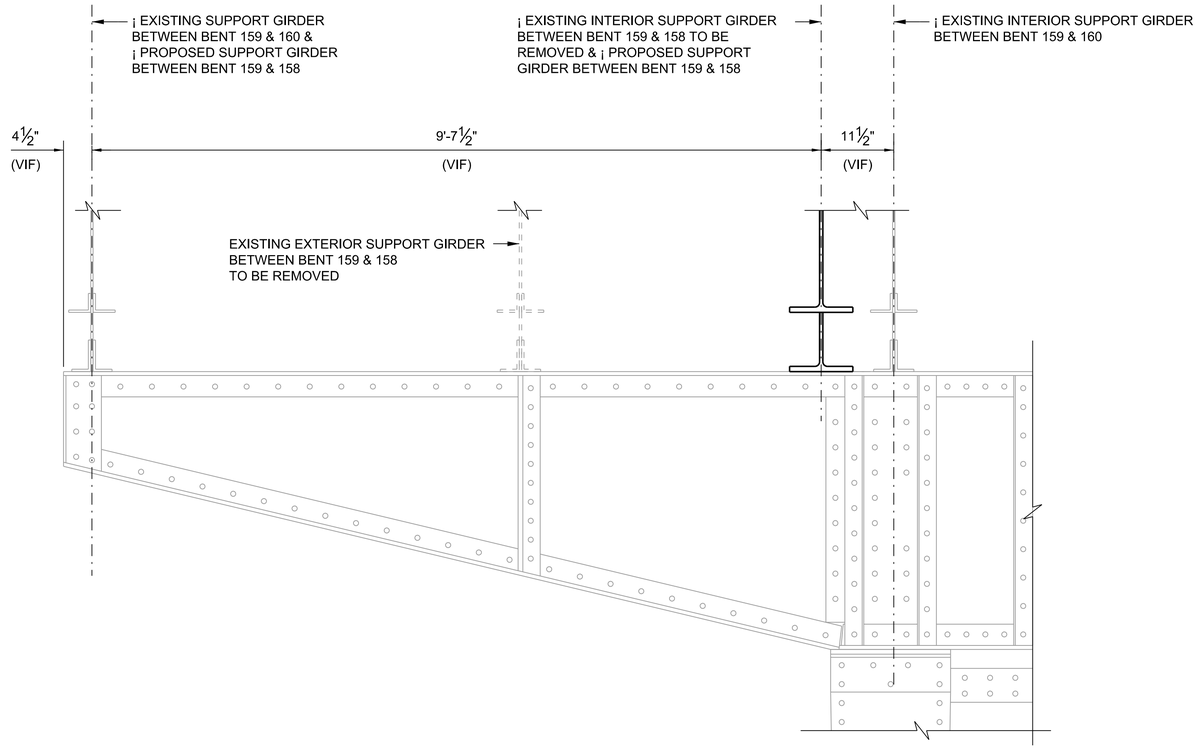
MARK	DATE	DESCRIPTION
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COLUMN TYPICAL DETAILS - 3

LSCAL | ST-502

VOLUME: X OF X

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1 / ST-503 BENT 159 INBOUND & OUTBOUND OVERHANG

SCALE: 1/4"=1'-0"

NOTES:

1. ALL DIMENSIONS AND MEMBERS WERE DETERMINED FROM FIELD MEASUREMENTS AND MAY VARY FROM ACTUAL CONDITIONS. CONTRACTOR TO VERIFY IN FIELD.
2. ALL EXISTING BOLTS/RIVETS ARE 7/8" DIAMETER. CONTRACTOR TO VERIFY IN FIELD.
3. SEE SHEET ST-204 FOR BENT DIMENSIONS.
4. FIELD VERIFY THE LOCATION AND SPACING OF EXISTING BOLT/RIVET HOLES PRIOR TO FABRICATION.
5. ALL BOLTS ARE 7/8" DIA. A325 - SCA SLIP CRITICAL, TYP. UNLESS NOTED OTHERWISE.
6. REMOVE EXISTING BOLTS AND REUSE BOLT HOLES WHERE INDICATED. FIELD VERIFY LOCATION OF EXISTING HOLES PRIOR TO FABRICATION.

0 2' 4' 8'
SCALE: 1/4"=1'-0"

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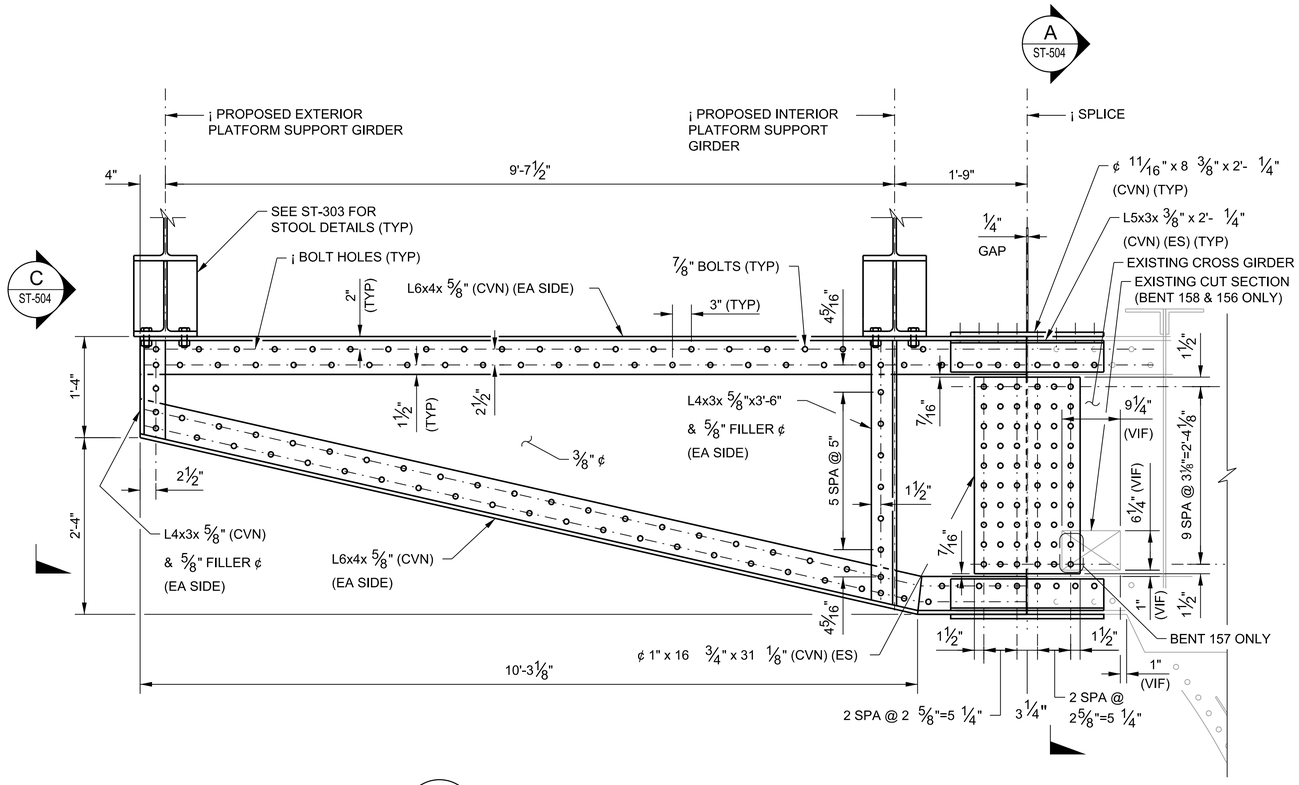
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OVERHANG TYPICAL DETAILS - 1

LSCAL | ST-503

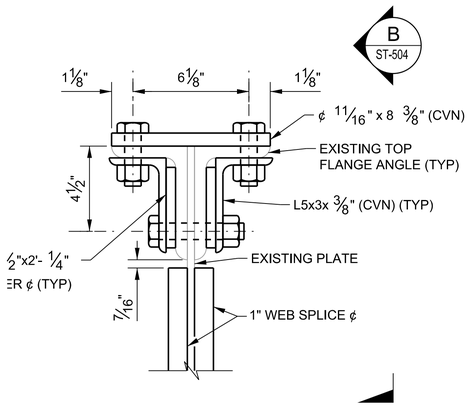
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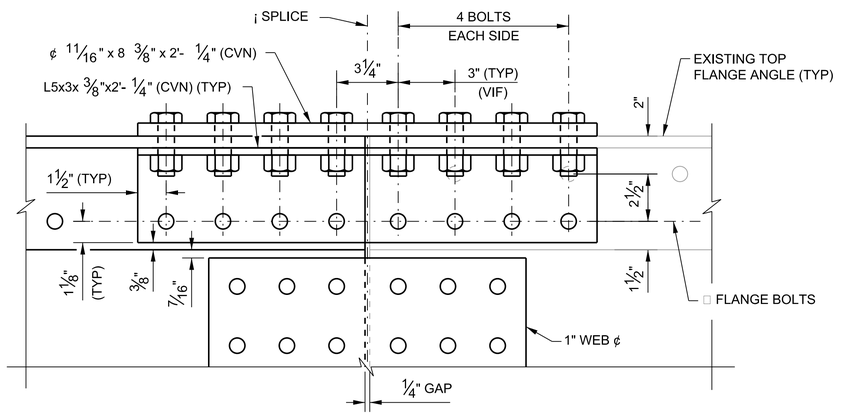
1 ST-504 BENT 158 INBOUND & OUTBOUND OVERHANG

(BENT 157 INBOUND & OUTBOUND, BENT 156 INBOUND SIMILAR) SCALE: 1"=1'-0"



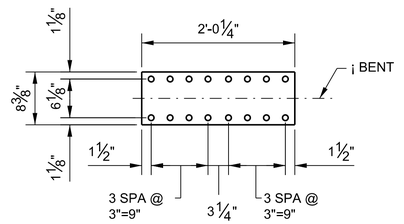
A ST-504 SPLICE TYPICAL SECTION

(BOTTOM SPLICE SIMILAR) SCALE: 3"=1'-0"



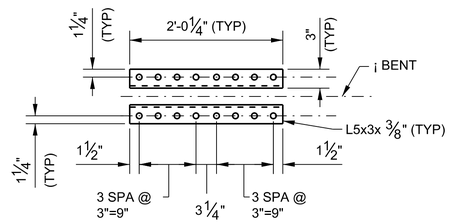
B ST-504 SPLICE TYPICAL SECTION

(BOTTOM SPLICE SIMILAR) SCALE: 3"=1'-0"



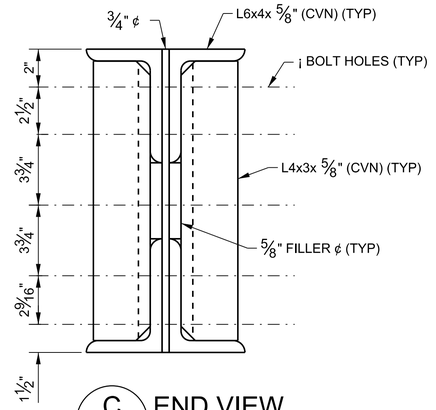
2 ST-504 TOP FLANGE EXTERIOR SPLICE DETAIL

(BOTTOM FLANGE SIMILAR) SCALE: 1"=1'-0"



3 ST-504 TOP FLANGE INTERIOR SPLICE DETAIL

(BOTTOM FLANGE SIMILAR) SCALE: 1"=1'-0"



C ST-504 END VIEW

SCALE: 3"=1'-0"

NOTES:

1. DIMENSIONS AND MEMBER SIZES WERE DETERMINED FROM A COMBINATION OF FIELD MEASUREMENTS AND EXISTING PLANS AND MAY VARY FROM ACTUAL CONDITIONS. CONTRACTOR TO VERIFY PRIOR TO FABRICATION.
2. ALL EXISTING BOLTS/RIVETS ARE 7/8" DIAMETER. CONTRACTOR TO VERIFY IN FIELD.
3. SEE SHEET ST-201 THROUGH ST-203 FOR BENT DIMENSIONS.
4. FOR OVERHANG CUT LOCATION, MATCH VERIFIED IN FIELD LOCATION OF BENT 155 SPLICE.
5. FIELD VERIFY THE LOCATION AND SPACING OF EXISTING BOLT/RIVET HOLES PRIOR TO FABRICATION.
6. ALL BOLTS ARE 7/8" DIA. A325 - SCA SLIP CRITICAL TYPE A, TYP. UNLESS NOTED OTHERWISE.
7. REMOVE EXISTING BOLTS AND REUSE BOLT HOLES WHERE INDICATED. FIELD VERIFY LOCATION OF EXISTING HOLES PRIOR TO FABRICATION.
8. SURFACES SHALL BE BLAST-CLEANED PRIOR TO INSTALLATION OF SPLICE PLATES. ALL SURFACES SHALL BE FREE OF OIL, PAINT, LACQUER, OR OTHER COATINGS AND LOOSE OXIDE.

0 1' 2'
SCALE: 1"=1'-0"

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CHICAGO TRANSIT AUTHORITY
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CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
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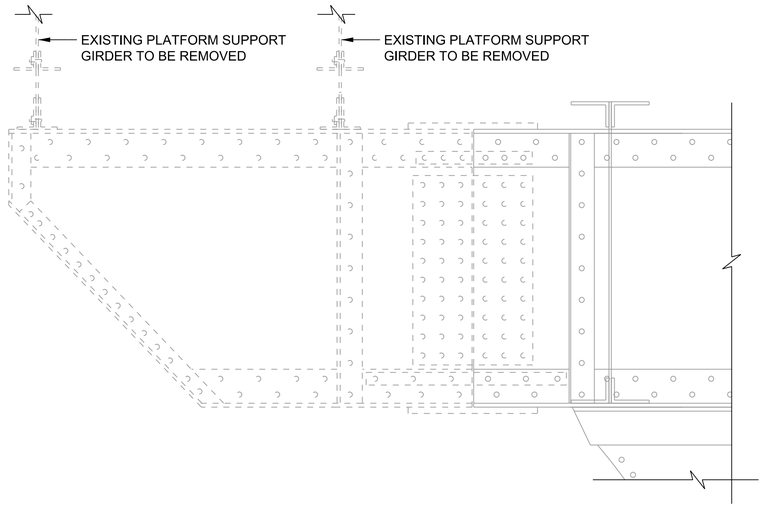
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OVERHANG TYPICAL DETAILS - 2

LSCAL | ST-504

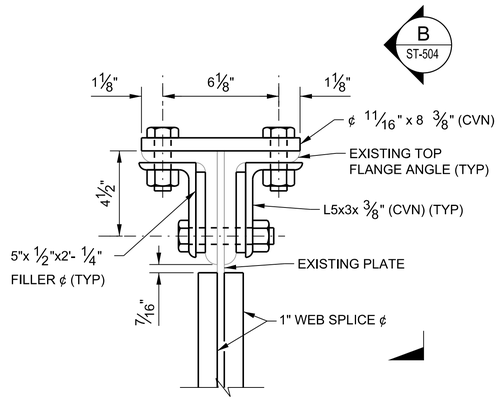
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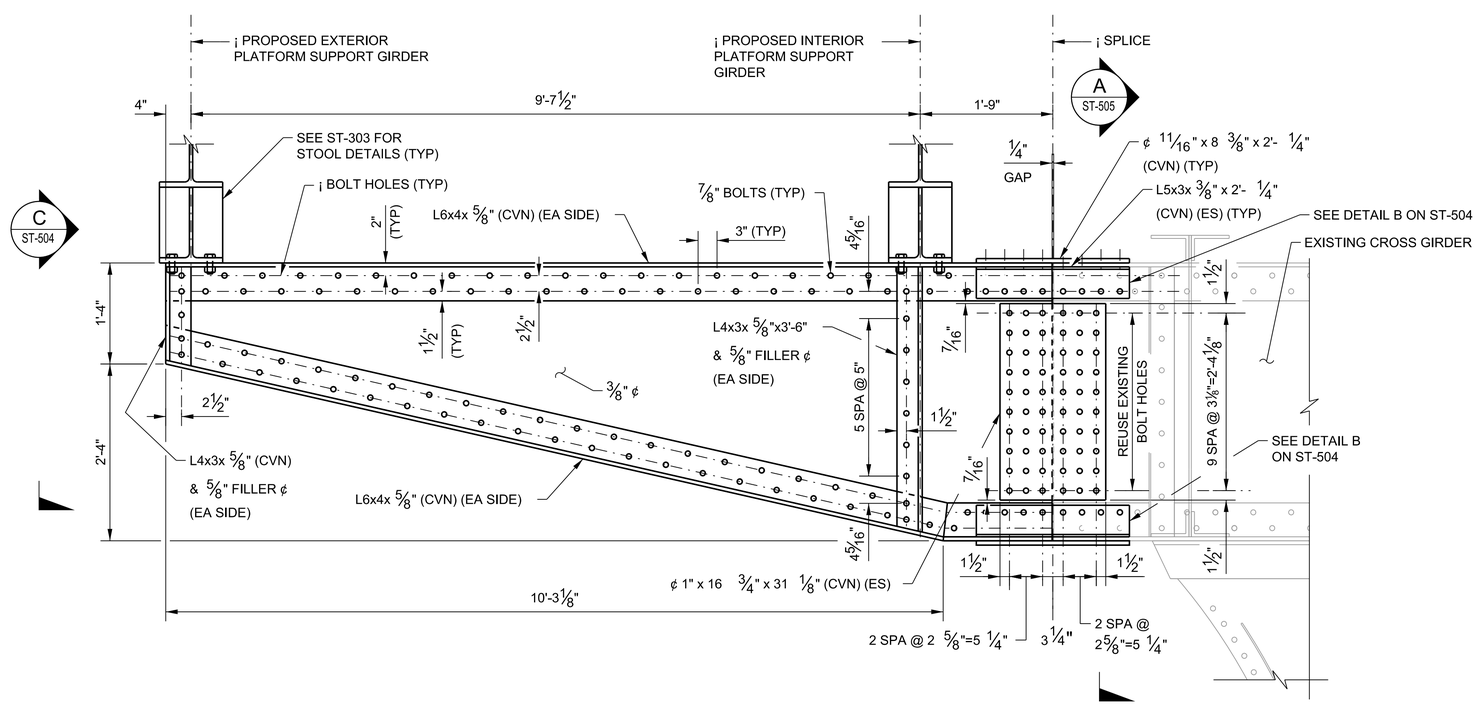
1 ST-505 EXISTING BENT 155 INBOUND OVERHANG

LOOKING NORTHWEST SCALE: 1"=1'-0"



A ST-505 SPLICE TYPICAL SECTION

(BOTTOM SPLICE SIMILAR) SCALE: 3"=1'-0"



2 ST-505 PROPOSED BENT 155 INBOUND OVERHANG

LOOKING NORTHWEST SCALE: 1"=1'-0"

NOTES:

1. DIMENSIONS AND MEMBER SIZES WERE DETERMINED FROM A COMBINATION OF FIELD MEASUREMENTS AND EXISTING PLANS AND MAY VARY FROM ACTUAL CONDITIONS. CONTRACTOR TO VERIFY PRIOR TO FABRICATION.
2. ALL EXISTING BOLTS/RIVETS ARE 7/8" DIAMETER.
3. SEE SHEET ST-200 FOR BENT DIMENSIONS.
4. FOR OVERHANG CUT LOCATION, MATCH VERIFIED IN FIELD LOCATION OF BENT 155 SPLICE.
5. FIELD VERIFY THE LOCATION AND SPACING OF EXISTING BOLT/RIVET HOLES PRIOR TO FABRICATION.
6. ALL BOLTS ARE 7/8" DIA. A325 - SCA SLIP CRITICAL TYPE A, TYP. UNLESS NOTED OTHERWISE.
7. REMOVE EXISTING BOLTS AND REUSE BOLT HOLES WHERE INDICATED. FIELD VERIFY LOCATION OF EXISTING HOLES PRIOR TO FABRICATION.
8. SURFACES SHALL BE BLAST-CLEANED PRIOR TO INSTALLATION OF SPLICE PLATES. ALL SURFACES SHALL BE FREE OF OIL, PAINT, LACQUER, OR OTHER COATINGS AND LOOSE OXIDE.

0 1' 2'

SCALE: 1"=1'-0"

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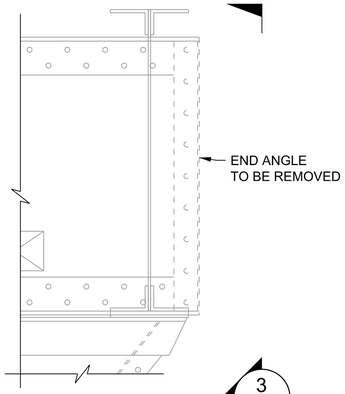
MARK	DATE	DESCRIPTION
0	12/30/24	ISSUE FOR BID

OVERHANG TYPICAL DETAILS - 3

LSCAL ST-505

VOLUME: X OF X

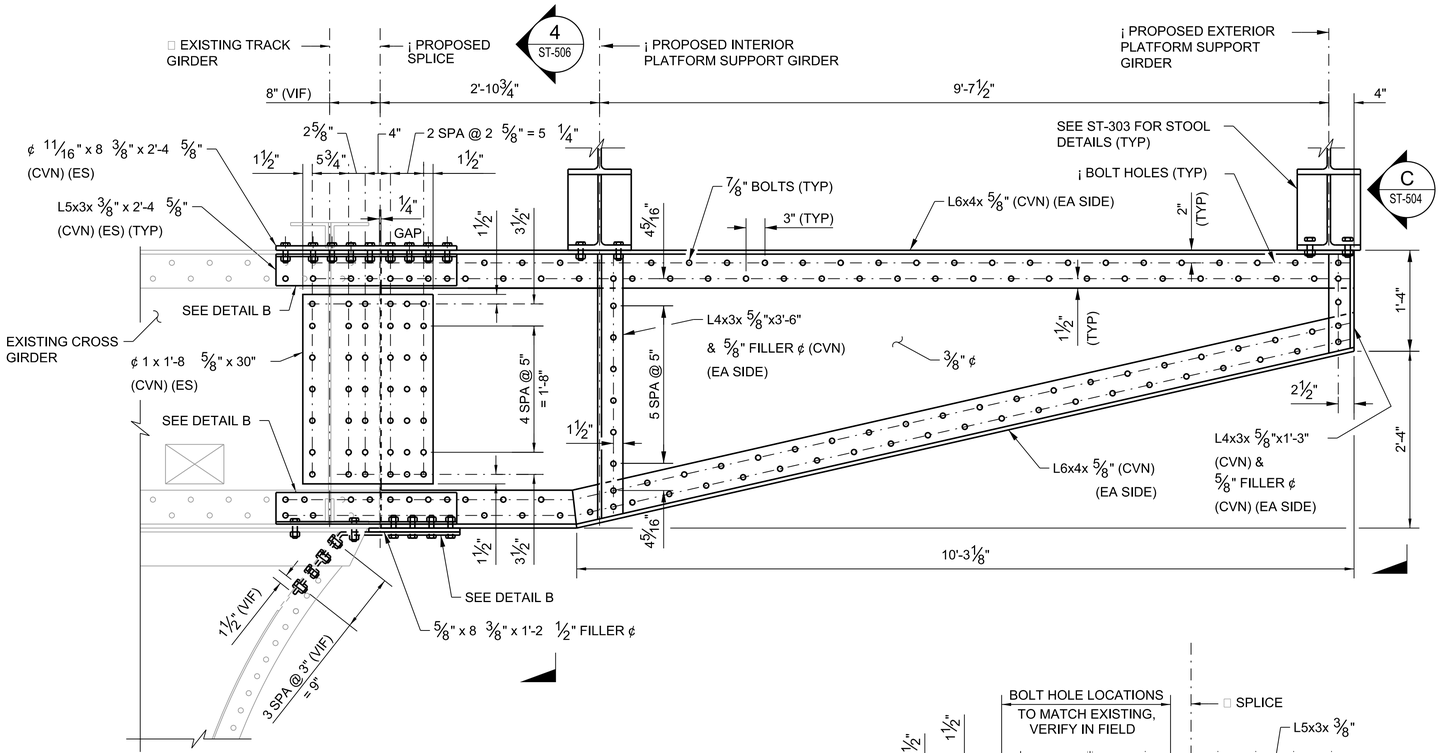
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3
ST-506

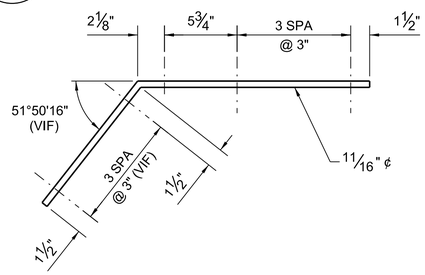
EXISTING BENT 156 OUTBOUND OVERHANG

1
ST-506
SCALE: 1"=1'-0"



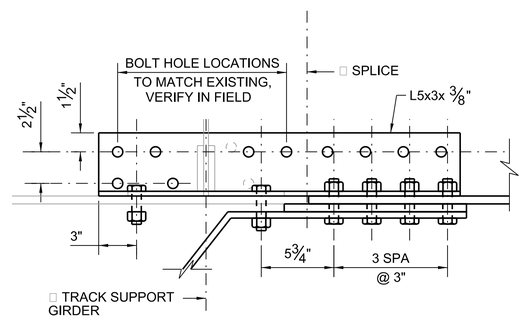
2
ST-506
BENT 156 OUTBOUND OVERHANG

(BENT 155 OUTBOUND SIMILAR) SCALE: 1"=1'-0"
(TRACK GIRDER FROM 156-155 NOT SHOWN FOR CLARITY)



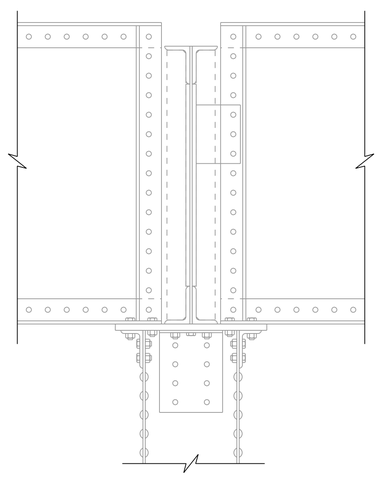
B
ST-506
BOTTOM FLANGE BENT SPLICE PLATE

SCALE: 6"=1'-0"



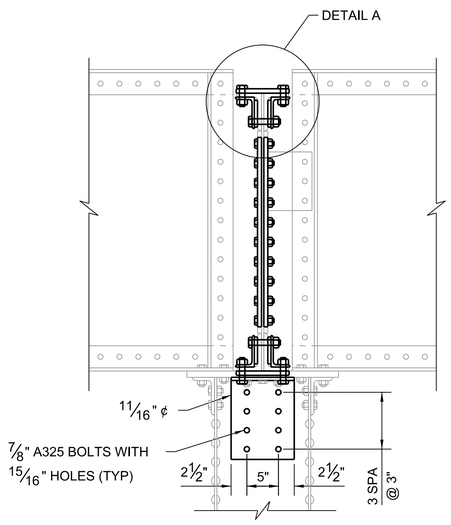
B
ST-506
DETAIL B

SCALE: 6"=1'-0"



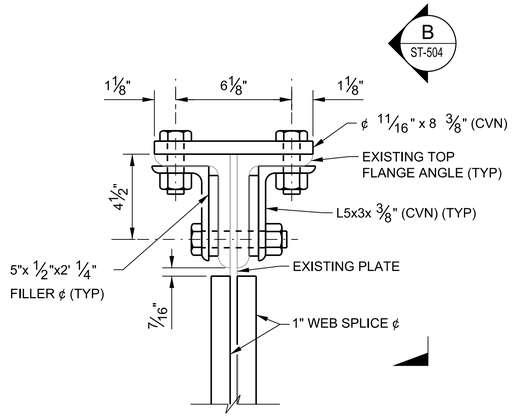
3
ST-506
EXISTING OUTBOUND END ELEVATION

SCALE: 1"=1'-0"



4
ST-506
PROPOSED OUTBOUND END ELEVATION

SCALE: 1"=1'-0"



A
ST-506
SPLICE TYPICAL SECTION

SCALE: 3"=1'-0"

0 1' 2'
SCALE: 1"=1'-0"

NOTES:

1. DIMENSIONS AND MEMBER SIZES WERE DETERMINED FROM A COMBINATION OF FIELD MEASUREMENTS AND EXISTING PLANS AND MAY VARY FROM ACTUAL CONDITIONS. CONTRACTOR TO VERIFY PRIOR TO FABRICATION.
2. ALL EXISTING BOLTS/RIVETS ARE 7/8" DIAMETER. CONTRACTOR TO VERIFY IN FIELD.
3. SEE SHEETS ST-200 AND ST-201 FOR BENT DIMENSIONS.
4. FIELD VERIFY THE LOCATION AND SPACING OF EXISTING BOLT/RIVET HOLES PRIOR TO FABRICATION.
5. ALL BOLTS ARE 7/8" DIA. A325 - SCA SLIP CRITICAL TYPE A, TYP. UNLESS NOTED OTHERWISE.
6. REMOVE EXISTING BOLTS AND USE BOLT HOLES WHERE INDICATED. FIELD VERIFY LOCATION OF EXISTING HOLES PRIOR TO FABRICATION.
7. EXTEND THE CONNECTION ELEMENTS IF THE EXISTING BOLT HOLE SPACING DOES NOT MATCH.
8. SURFACES SHALL BE BLAST-CLEANED PRIOR TO INSTALLATION OF SPLICE PLATES. ALL SURFACES SHALL BE FREE OF OIL, PAINT, LACQUER, OR OTHER COATINGS AND LOOSE OXIDE.

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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	S. LLURI
CHECKED BY	P. BUSCH
DESIGNED BY	S.HOANG
DRAWN BY	M. ROLKOWSKI

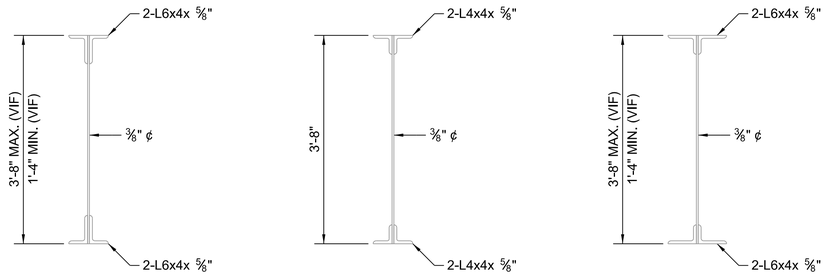
MARK	DATE	DESCRIPTION
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OVERHANG TYPICAL DETAILS - 4

LSCAL | ST-506

VOLUME: X OF X

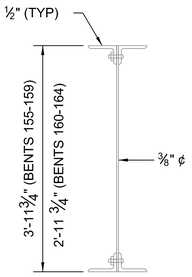
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BENTS 155 - 158 BENTS 164 - 165 BENTS 159 - 163

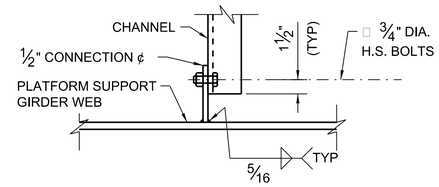
1 ST-507 CROSS GIRDER TYPICAL SECTION

SCALE: 3/4"=1'-0" (FOR INFORMATION ONLY)



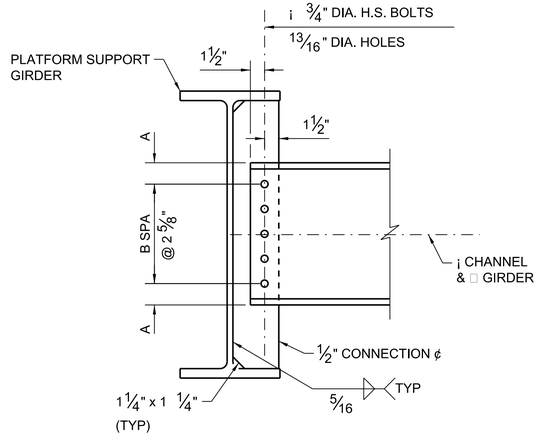
2 ST-507 TRACK STRINGER TYPICAL SECTION

SCALE: 3/4"=1'-0" (FOR INFORMATION ONLY)



3 ST-507 INTERIOR DIAPHRAGM DETAIL

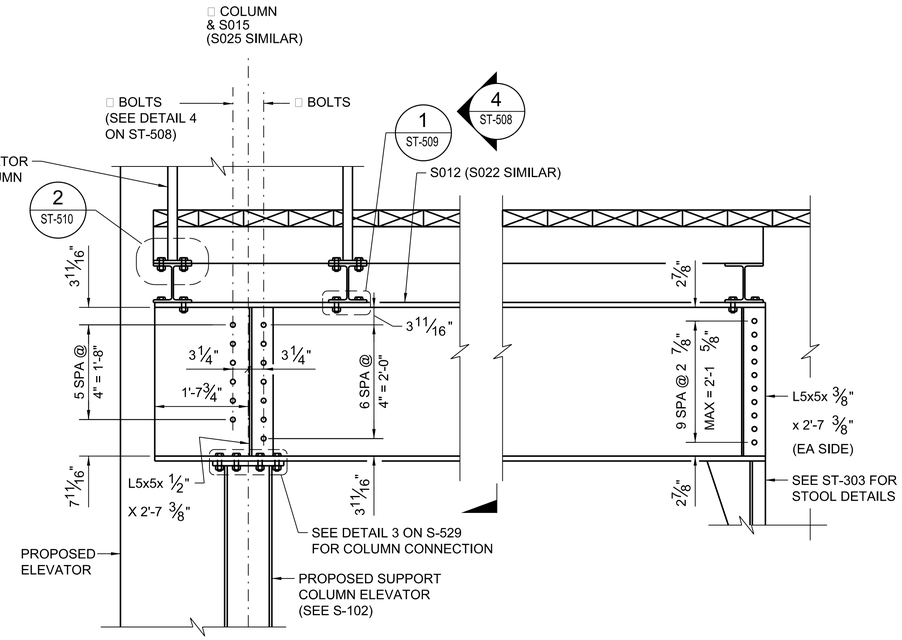
SCALE: 1 1/2"=1'-0"



BEAM SIZE	CHANNEL	A	B
W27x102 OR W30x90	C15 x 40	2¼"	4
W33x152	MC18 x 42.7	2 7/16"	5

4 ST-507 INTERIOR DIAPHRAGM CONNECTION DETAIL

SCALE: 1 1/2"=1'-0"



5 ST-507 TYPICAL BEARING STIFFENER DETAIL

SCALE: 3/4"=1'-0"

NOTES:

1. ALTERNATE CHANNELS OF EQUAL DEPTH AND LARGER WEIGHT ARE PERMITTED TO FACILITATE MATERIAL ACQUISITION. ALTERNATE CHANNELS, IF UTILIZED, SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE CTA.
2. ALL BOLTS ARE 3/4" DIA. A325-SCA SLIP CRITICAL, TYP., UNLESS OTHERWISE NOTED.

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DESIGNED BY	S. HOANG
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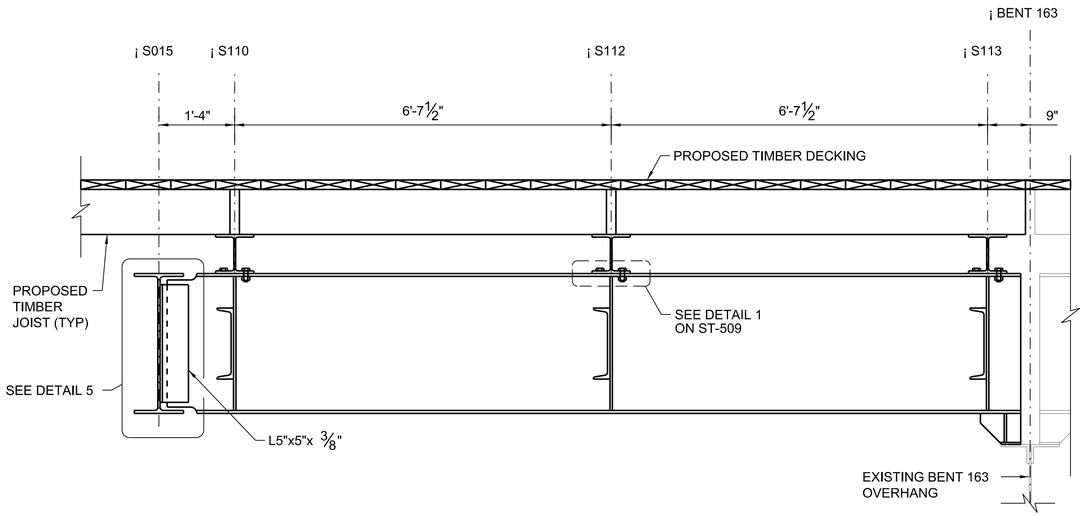
MARK	DATE	DESCRIPTION
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PLATFORM TYPICAL DETAILS - 1

LSCAL | ST-507

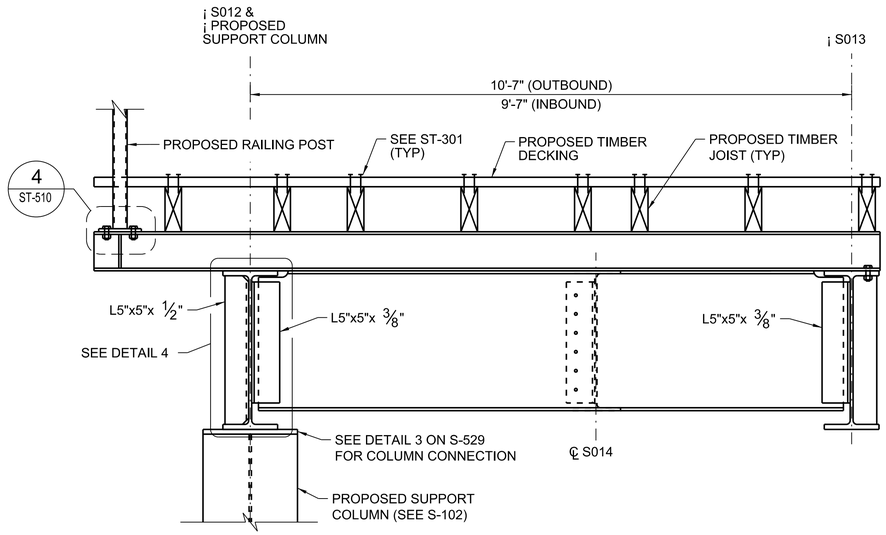
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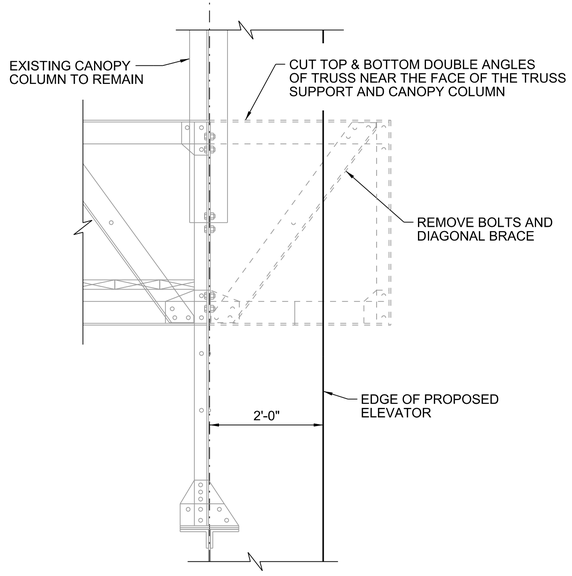
1 ST-508 S014 GIRDER DETAIL (LOOKING NORTHEAST)

(S024 SIMILAR) SCALE: 3/4"=1'-0"



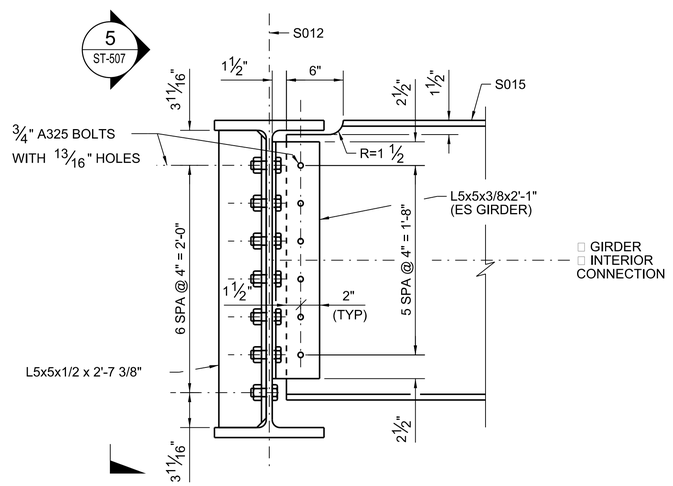
2 ST-508 S015 GIRDER DETAIL (LOOKING SOUTHEAST)

(S025 SIMILAR) SCALE: 3/4"=1'-0"



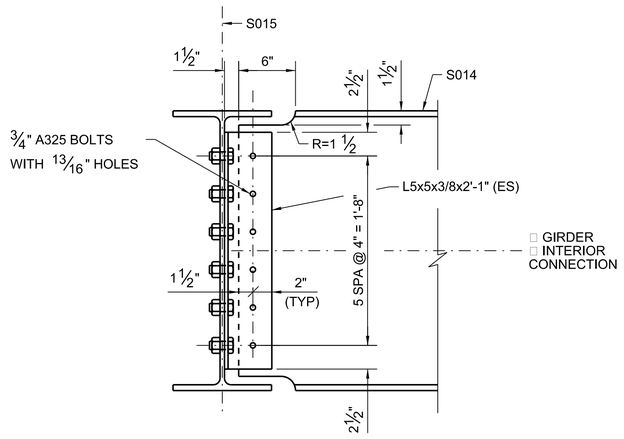
STAIR TRUSS FRAME CUT DETAIL: (LOOKING SOUTHWEST)

3 ST-508 SCALE: 3/4"=1'-0"



4 ST-508 S015 TO S012 CONNECTION

(S015 TO S013, S025 TO S022, AND S025 TO S023 CONNECTION SIMILAR)
SCALE: 1 1/2"=1'-0"



5 ST-508 S014 TO S015 CONNECTION

(S025 TO S023 CONNECTION SIMILAR) SCALE: 1 1/2"=1'-0"

NOTES:

1. ALL BOLTS ARE 7/8" DIA. A325-SCA SLIP CRITICAL, TYP., UNLESS OTHERWISE NOTED.
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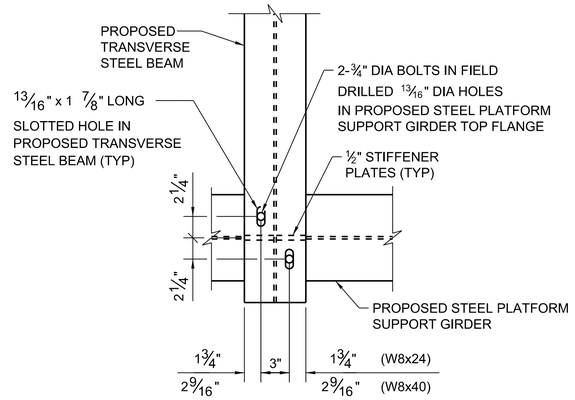
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PLATFORM TYPICAL DETAILS - 2

LSCAL | ST-508

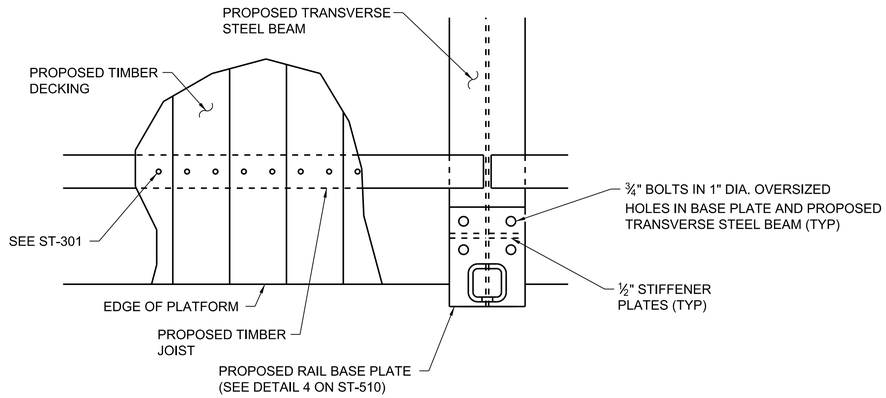
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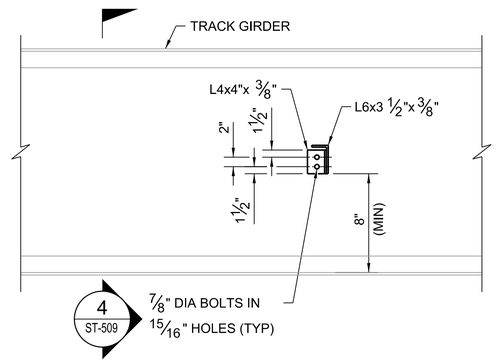
1 ST-509 STEEL BEAM SECTION

SCALE: 1 1/2"=1'-0"



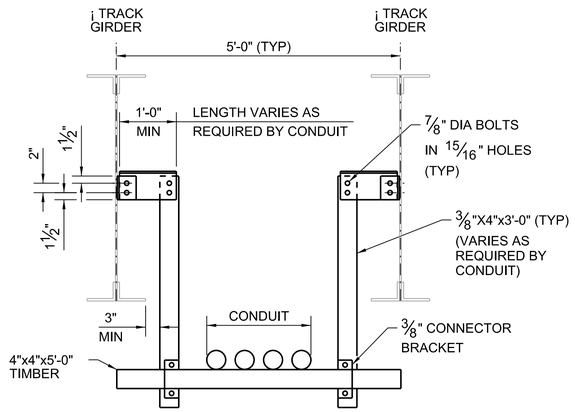
2 ST-509 PARTIAL PLATFORM PLAN VIEW

SCALE: 1 1/2"=1'-0"



3 ST-509 CONDUIT SUPPORT CONNECTION DETAIL

SCALE: 3/4"=1'-0"



4 ST-509 CONDUIT SUPPORT CONNECTION SECTION

SCALE: 3/4"=1'-0"

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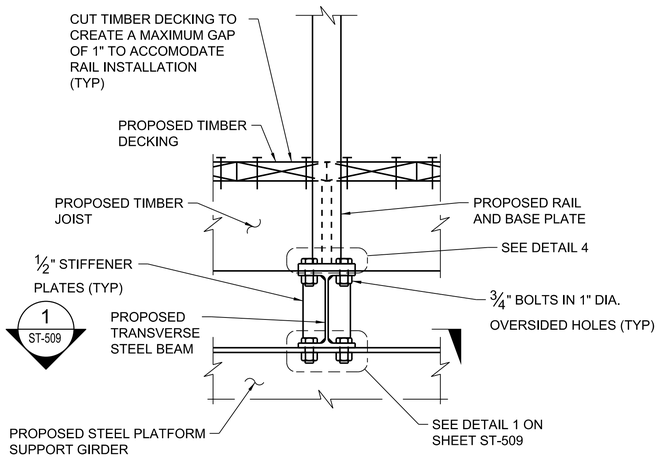
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PLATFORM TYPICAL DETAILS - 3

LSCAL | ST-509

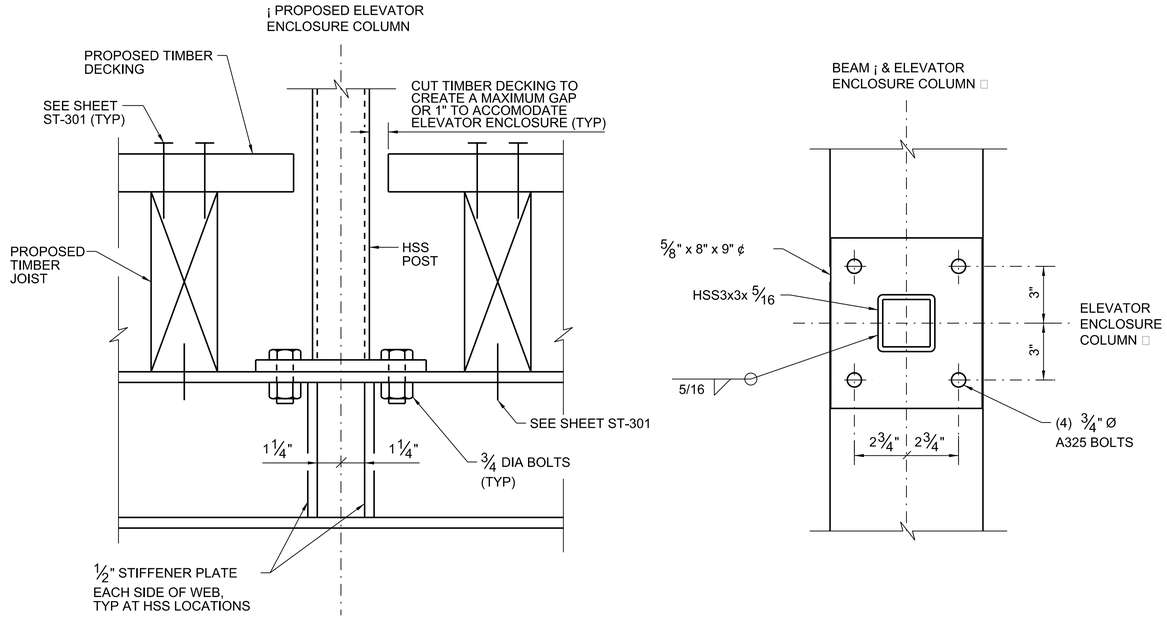
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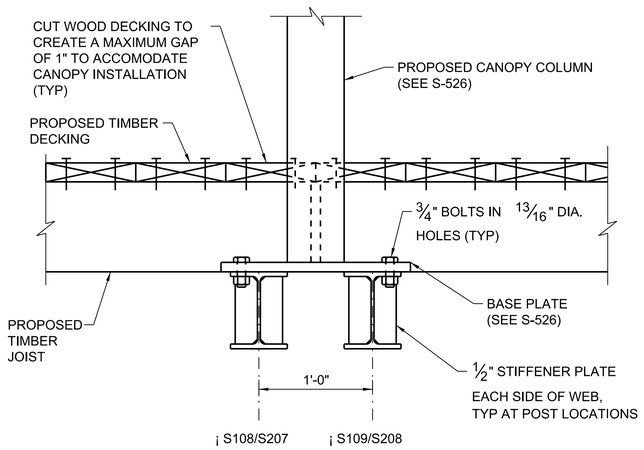
1 ST-510 RAIL POST CONNECTION ELEVATION

SCALE: 1 1/2"=1'-0"



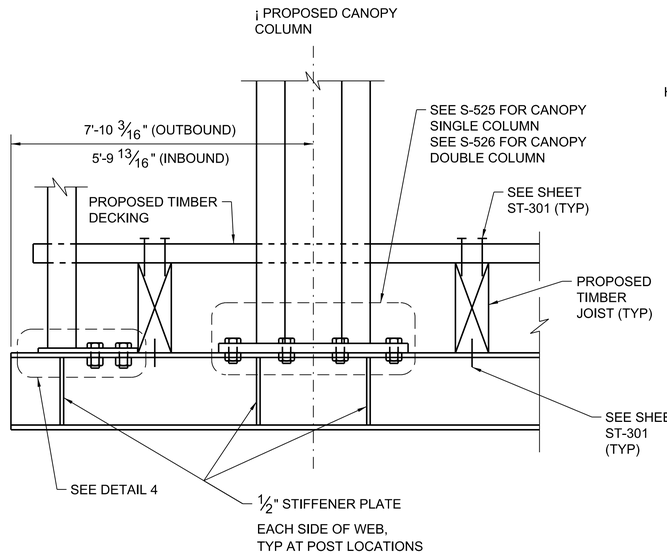
2 ST-510 ELEVATOR ENCLOSURE CONNECTION DETAIL

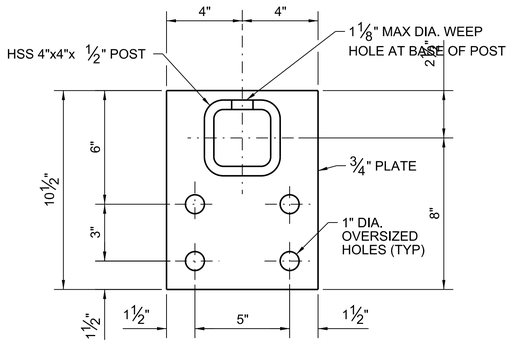
SCALE: 3"=1'-0"



3 ST-510 CANOPY DOUBLE COLUMN CONNECTION DETAIL

SCALE: 1 1/2"=1'-0"





4 ST-510 RAIL POST BASE PLATE

SCALE: 3"=1'-0"

NOTES:

1. SEE A-503 FOR RAIL POST CONNECTION DETAILS.

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PLATFORM TYPICAL DETAILS - 4

LSCAL | ST-510

VOLUME: X OF X

OUTBOUND STEEL MEMBER SCHEDULE

BEAM	SIZE	LENGTH	JOIST	T/PLATFORM TO T/RAIL	CCD ELEVATION (1)	BASE PLATE DETAIL (2)	STOOL TYPE - 1 (3)	STOOL TYPE - 2 (3)
S010	W33x152	18'-4 3/8"	-	-	-	-	ST-3	ST-3
S011	W33x152	18'-4 3/8"	-	-	-	-	ST-3	ST-3
S012	W33x152	30'-3 3/8"	-	-	-	-	-	ST-3
S013	W33x152	44'-0 3/8"	-	-	-	-	ST-3	ST-3
S014	W30x90	16'-3"	-	-	-	-	ST-4	-
S015	W30x90	10'-4"	-	-	-	-	ST-4	ST-4
S030	W27x102	43'-0 3/8"	-	-	-	-	ST-2	ST-2
S031	W27x102	43'-0 3/8"	-	-	-	-	ST-2	ST-2
S032	W27x102	43'-0 3/8"	-	-	-	-	ST-2	ST-2
S033	W27x102	43'-0 3/8"	-	-	-	-	ST-2	ST-2
S034	W27x102	38'-8 3/4"	-	-	-	-	ST-2	ST-2
S035	W27x102	38'-8 3/4"	-	-	-	-	ST-2	ST-2
S036	W27x102	52'-3 3/8"	-	-	-	-	ST-1 (4)	ST-2
S037	W27x102	52'-3 3/8"	-	-	-	-	ST-1 (4)	ST-2
S100	W8x40	11'-10"	4x10	3.413	41.783	4	-	-
S101	W8x40	11'-10"	4x10	3.437	41.803	4	-	-
S102	W8x40	11'-10"	4x10	3.464	41.827	4	-	-
S103	W8x40	11'-10"	4x10	3.487	41.847	4	-	-
S104	W8x40	11'-10"	4x10	3.489	41.848	4	-	-
S105	W8x40	11'-10"	4x10	3.479	41.837	4	-	-
S106	W8x40	11'-10"	4x10	3.469	41.824	4	-	-
S107	W8x40	13'-10"	4x10	3.464	41.818	4	-	-
S108	W8x40	13'-10"	4x10	3.457	41.808	3,4	-	-
S109	W8x40	13'-10"	4x10	3.453	41.804	3,4	-	-
S110	W8x40	13'-10"	4x10	3.435	41.782	2,4	-	-
S111	W8x40	13'-10"	4x10	3.441	41.790	2,4	-	-
S112	W8x40	5'-9"	4x10	3.423	41.767	-	-	-
S113	W8x40	5'-9"	4x10	3.411	41.752	-	-	-
S115	W8x24	11'-10"	4x10	3.374	41.652	-	-	-
S116	W8x24	11'-10"	4x10	3.428	41.676	4	-	-
S117	W8x24	11'-10"	4x10	3.486	41.703	4	-	-
S118	W8x24	11'-10"	4x10	3.506	41.712	-	-	-
S119	W8x24	11'-10"	4x10	3.543	41.729	4	-	-
S120	W8x24	11'-10"	4x10	3.565	41.737	-	-	-
S121	W8x24	11'-10"	4x10	3.570	41.736	4	-	-
S122	W8x24	11'-10"	4x10	3.586	41.743	-	-	-
S123	W8x24	11'-10"	4x10	3.586	41.748	-	-	-
S124	W8x24	11'-10"	4x10	3.536	41.722	4	-	-
S125	W8x24	11'-10"	4x10	3.483	41.694	4	-	-
S126	W8x24	11'-10"	4x10	3.429	41.665	4	-	-
S127	W8x24	11'-10"	4x10	3.404	41.652	-	-	-
S128	W8x24	11'-10"	4x10	3.400	41.650	-	-	-
S129	W8x24	11'-10"	4x10	3.406	41.645	4	-	-
S130	W8x24	11'-10"	4x10	3.413	41.639	4	-	-
S131	W8x24	11'-10"	4x10	3.419	41.634	4	-	-
S132	W8x24	11'-10"	4x10	3.421	41.596	4	-	-
S133	W8x24	11'-10"	4x10	3.421	41.596	-	-	-
S134	W8x24	11'-10"	4x10	3.423	41.633	-	-	-
S135	W8x24	11'-10"	4x10	3.442	41.655	4	-	-
S136	W8x24	11'-10"	4x10	3.462	41.677	-	-	-
S137	W8x24	11'-10"	4x10	3.462	41.677	4	-	-
S138	W8x24	11'-10"	4x10	3.482	41.700	4	-	-
S139	W8x24	11'-10"	4x10	3.490	41.710	-	-	-
S140	W8x24	11'-10"	4x10	3.490	41.710	4	-	-
S141	W8x24	11'-10"	4x10	3.490	41.710	4	-	-

INBOUND STEEL MEMBER SCHEDULE

BEAM	SIZE	LENGTH	JOIST	T/PLATFORM TO T/RAIL	CCD ELEVATION (1)	BASE PLATE DETAIL (2)	STOOL TYPE - 1 (3)	STOOL TYPE - 2 (3)
S020	W33x152	18'-4 3/8"	-	-	-	-	ST-3	ST-3
S021	W33x152	18'-4 3/8"	-	-	-	-	ST-3	ST-3
S022	W33x152	30'-3 3/8"	-	-	-	-	-	ST-3
S023	W33x152	44'-0 3/8"	-	-	-	-	ST-3	ST-3
S024	W30x90	17'-6"	-	-	-	-	ST-4	-
S025	W30x90	10'-4"	-	-	-	-	ST-4	ST-4
S040	W27x102	43'-0 3/8"	-	-	-	-	ST-2	ST-2
S041	W27x102	43'-0 3/8"	-	-	-	-	ST-2	ST-2
S042	W27x102	43'-0 3/8"	-	-	-	-	ST-2	ST-2
S043	W27x102	43'-0 3/8"	-	-	-	-	ST-2	ST-2
S044	W27x102	38'-8 3/8"	-	-	-	-	ST-2	ST-2
S045	W27x102	38'-8 3/8"	-	-	-	-	ST-2	ST-2
S046	W27x102	52'-3 3/8"	-	-	-	-	ST-1 (4)	ST-2
S047	W27x102	52'-3 3/8"	-	-	-	-	ST-1 (4)	ST-2
S200	W8x40	11'-10"	4x10	3.401	41.752	4	-	-
S201	W8x40	11'-10"	4x10	3.407	41.767	4	-	-
S202	W8x40	11'-10"	4x10	3.413	41.783	4	-	-
S203	W8x40	11'-10"	4x10	3.419	41.798	4	-	-
S204	W8x40	11'-10"	4x10	3.421	41.801	4	-	-
S205	W8x40	11'-10"	4x10	3.429	41.804	4	-	-
S206	W8x40	11'-10"	4x10	3.437	41.809	4	-	-
S207	W8x40	11'-10"	4x10	3.445	41.812	3,4	-	-
S208	W8x40	11'-10"	4x10	3.447	41.814	3,4	-	-
S209	W8x40	11'-10"	4x10	3.455	41.817	2,4	-	-
S210	W8x40	11'-10"	4x10	3.461	41.820	2,4	-	-
S211	W8x40	4'-3"	4x10	3.469	41.825	-	-	-
S212	W8x40	4'-3"	4x10	3.477	41.829	-	-	-
S213	W8x24	11'-10"	4x10	3.455	41.720	-	-	-
S214	W8x24	11'-10"	4x10	3.462	41.723	4	-	-
S215	W8x24	11'-10"	4x10	3.468	41.725	4	-	-
S216	W8x24	11'-10"	4x10	3.478	41.729	-	-	-
S217	W8x24	11'-10"	4x10	3.475	41.728	4	-	-
S218	W8x24	11'-10"	4x10	3.478	41.729	-	-	-
S219	W8x24	11'-10"	4x10	3.478	41.729	4	-	-
S220	W8x24	11'-10"	4x10	3.480	41.730	-	-	-
S221	W8x24	11'-10"	4x10	3.480	41.729	-	-	-
S222	W8x24	11'-10"	4x10	3.477	41.717	4	-	-
S223	W8x24	11'-10"	4x10	3.474	41.703	4	-	-
S224	W8x24	11'-10"	4x10	3.472	41.690	4	-	-
S225	W8x24	11'-10"	4x10	3.470	41.684	-	-	-
S226	W8x24	11'-10"	4x10	3.469	41.682	-	-	-
S227	W8x24	11'-10"	4x10	3.456	41.668	4	-	-
S228	W8x24	11'-10"	4x10	3.442	41.653	4	-	-
S229	W8x24	11'-10"	4x10	3.428	41.638	4	-	-
S230	W8x24	11'-10"	4x10	3.478	41.729	4	-	-
S231	W8x24	11'-10"	4x10	3.429	41.633	-	-	-
S232	W8x24	11'-10"	4x10	3.423	41.633	-	-	-
S233	W8x24	11'-10"	4x10	3.442	41.655	4	-	-
S234	W8x24	11'-10"	4x10	3.478	41.729	-	-	-
S235	W8x24	11'-10"	4x10	3.462	41.677	4	-	-
S236	W8x24	11'-10"	4x10	3.482	41.700	4	-	-
S237	W8x24	11'-10"	4x10	3.490	41.710	-	-	-
S238	W8x24	11'-10"	4x10	3.490	41.710	4	-	-
S239	W8x24	11'-10"	4x10	3.490	41.710	4	-	-

OUTBOUND STEEL MEMBER SCHEDULE

BEAM	SIZE	LENGTH
C100	MC18x42.7	10'-1"
C101	MC18x42.7	10'-1"
C103	MC18x42.7	10'-1"
C104	MC18x42.7	10'-1"
C107	MC18x42.7	10'-1"
C110	C15x40	2'-11"
C112	C15x40	2'-11"
C113	C15x40	2'-11"
C115	C15x40	9'-1"
C116	C15x40	9'-1"
C117	C15x40	9'-1"
C118	C15x40	9'-1"
C120	C15x40	9'-1"
C121	C15x40	9'-1"
C122	C15x40	9'-1"
C123	C15x40	9'-1"
C125	C15x40	9'-1"
C126	C15x40	9'-1"
C127	C15x40	9'-1"
C128	C15x40	9'-1"
C131	C15x40	9'-1"
C132	C15x40	9'-1"
C133	C15x40	9'-1"
C134	C15x40	9'-1"
C135	C15x40	9'-1"

INBOUND STEEL MEMBER SCHEDULE

BEAM	SIZE	LENGTH
C200	MC18x42.7	9'-1"
C201	MC18x42.7	9'-1"
C203	MC18x42.7	9'-1"
C204	MC18x42.7	9'-1"
C206	MC18x42.7	9'-1"
C210	C15x40	2'-11"
C211	C15x40	2'-11"
C212	C15x40	2'-11"
C213	C15x40	9'-1"
C214	C15x40	9'-1"
C215	C15x40	9'-1"
C216	C15x40	9'-1"
C218	C15x40	9'-1"
C219	C15x40	9'-1"
C220	C15x40	9'-1"
C221	C15x40	9'-1"
C223	C15x40	9'-1"
C224	C15x40	9'-1"
C225	C15x40	9'-1"
C226	C15x40	9'-1"
C228	C15x40	9'-1"
C229	C15x40	9'-1"
C230	C15x40	9'-1"
C231	C15x40	9'-1"
C234	C15x40	9'-1"

NOTES:

1. TOP OF PLATFORM ELEVATION.

2. REFER TO SHEET ST-510.

3. "STOOL TYPE - 1" REFERS TO THE END OF THE GIRDER CLOSER TO CHICAGO, AND "STOOL TYPE - 2" REFERS TO THE END OF THE GIRDER AWAY FROM CHICAGO.

4. THE STOOL WILL BE LOCATED OVER BENT 155 INSTEAD OF AT THE END OF THE BEAM.

HNTB Corporation
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Chicago, Illinois 60606
(312) 930-9119

CHICAGO TRANSIT AUTHORITY
ENGINEERING

SENSITIVE SECURITY INFORMATION

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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	S. LLURI
CHECKED BY	P. BUSCH
DESIGNED BY	S. HOANG
DRAWN BY	M. ROLKOWSKI

MARK	DATE	DESCRIPTION
0	12/30/24	ISSUE FOR BID

PLATFORM STEEL BEAM SCHEDULE

LSCAL | ST-600

VOLUME: X OF X

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TRACK STRUCTURE STRINGER OR CROSS GIRDER DESIGN VALUES TABLE

NOMENCLATURE	SPANS BETWEEN BENT 155 & 159	SPANS BETWEEN BENT 165 & 163
	S030-S037 & S040-S047	S010-S013 & S020-S023
Stress/Fatigue Analysis		
FCM OR NTR	NTR	NTR
I_g(in⁴)	3620	8160
S_b(in□)	267	487
I_c(n) (in⁴)	-	-
S_c(n) (in□)	-	-
I_c(3n) (in⁴)	-	-
S_c(3n) (in□)	-	-
D.L. (k/ft)	0.20	0.27
S.D.L (k/ft)	-	-
M.D.L. (k-ft)	87.7	65.8
M.S.D.L. (k-ft)	-	-
$+M_{L.L}$ ± IM. (k-ft)	136.3	146.2
$-M_{L.L}$ + IM. (k-ft)	43.9	0
f_s D.L. (ksi)	3.94	1.62
f_s S.D.L. (ksi)	-	-
$f_{S\,L.L}$ ± IM (ksi)	6.12	3.60
f_s Total (ksi)	10.07	5.52
f_s Allowable (ksi)	27.5	27.5
Fatigue Category ($S_{\ }$)$_{Rat}$	-	-
f_s Range (ksi)	8.10	3.60
$+M_{Crane\,L.L}$ ± IM. (k-ft)	-	-
$-M_{Crane\,L.L}$ ± IM. (k-ft)	-	-
$f_{s\,Crane\,L.L}$ ± IM (ksi)	-	-
f_s Rating (ksi)	-	-
Maximum Rating	-	-

HNTB Corporation
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CHICAGO TRANSIT AUTHORITY
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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	S. LLURI
CHECKED BY	P. BUSCH
DESIGNED BY	S. HOANG
DRAWN BY	M. ROLKOWSKI

MARK	DATE	DESCRIPTION
0	12/30/24	ISSUE FOR BID

STRUCTURAL LOAD TABLE - 1

LSCAL | ST-601

VOLUME: X OF X

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TRACK STRUCTURE COLUMN DESIGN OR MAXIMUM RATING DATA TABLE

NOMENCLATURE	BENT 155		BENT 156		BENT 157		BENT 158		BENT 159	
	OUTBOUND COLUMN	INBOUND COLUMN	OUTBOUND COLUMN	INBOUND COLUMN	OUTBOUND COLUMN	INBOUND COLUMN	OUTBOUND COLUMN	INBOUND COLUMN	OUTBOUND COLUMN	INBOUND COLUMN
Stress/Maximum Rating Interaction Analysis and Fatigue Analysis (if applicable)										
A (in□)	68.86	68.86	68.86	68.86	68.86	68.86	68.86	68.86	46.16	46.16
$I_{S\ 1-1}$(in⁴)	4692.68	4692.68	4692.68	4692.68	4692.68	4692.68	4692.68	4692.68	1971.49	1971.49
$S_{S\ 1-1}$(in□)	360.98	360.98	360.98	360.98	360.98	360.98	360.98	360.98	225.31	225.31
$I_{S\ 2-2}$(in⁴)	2571.84	2571.84	2571.84	2571.84	2571.84	2571.84	2571.84	2571.84	1132.62	1132.62
$S_{S\ 2-2}$(in□)	278.04	278.04	278.04	278.04	278.04	278.04	278.04	278.04	141.58	141.58
F_a (ksi)*	15.40	15.40	15.40	15.40	15.40	15.40	15.40	15.40	12.32	12.32
$k_1L\ /r_{\ 1}$	18.69	18.69	18.69	18.69	18.69	18.69	18.69	18.69	19.49	19.49
$k_2L\ /r_{\ 2}$	15.49	15.49	15.49	15.49	15.49	15.49	15.49	15.49	19.20	19.20
Controlling Load Case	DL+LL+I	DL+LL+I	DL+LL+I	DL+LL+I	DL+LL+I	DL+LL+I	DL+LL+I	DL+LL+I	DL+LL+I+WL+LF+OF	DL+LL+I+WL+LF+OF
P (kips)*	224.59	224.59	224.59	224.59	224.59	224.59	224.59	224.59	272.63	272.63
f_a (ksi)*	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	4.37	4.37
M_{L-1} (k-ft)*	161.20	161.20	161.20	161.20	161.20	161.20	161.20	161.20	103.95	103.95
f_{b1} (ksi)*	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	0.34	0.34
F_{b1} (ksi)*	15.29	15.29	15.29	15.29	15.29	15.29	15.29	15.29	12.23	12.23
M_{b-2} (k-ft)*	73.29	73.29	73.29	73.29	73.29	73.29	73.29	73.29	9.61	9.61
f_{b2} (ksi)*	6.96	6.96	6.96	6.96	6.96	6.96	6.96	6.96	7.64	7.64
F_{b2} (ksi)*	15.33	15.33	15.33	15.33	15.33	15.33	15.33	15.33	12.26	12.26
f_a/F_a*	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.23	0.23
Allowable Stress Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.25	1.25
Ratio*	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.65	0.65
Fatigue Category ($S_{\ rtat}$)	B (16)	B (16)	B (16)	B (16)	B (16)	B (16)	B (16)	B (16)	B (16)	B (16)
f_s Range (ksi)	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	8.79	8.79

TRACK STRUCTURE COLUMN DESIGN OR MAXIMUM RATING DATA TABLE

NOMENCLATURE	BENT 160		BENT 161		BENT 162		BENT 163		BENT 164	
	OUTBOUND COLUMN	INBOUND COLUMN	OUTBOUND COLUMN	INBOUND COLUMN	OUTBOUND COLUMN	INBOUND COLUMN	OUTBOUND COLUMN	INBOUND COLUMN	OUTBOUND COLUMN	INBOUND COLUMN
Stress/Maximum Rating Interaction Analysis and Fatigue Analysis (if applicable)										
A (in□)	46.16	46.16	46.16	46.16	46.16	46.16	37.66	37.66	29.67	29.67
$I_{S\ 1-1}$(in⁴)	1971.49	1971.49	1971.49	1971.49	1971.49	1971.49	1357.19	1357.19	1180.43	1180.43
$S_{S\ 1-1}$(in□)	225.31	225.31	225.31	225.31	225.31	225.31	155.11	155.11	134.91	134.91
$I_{S\ 2-2}$(in⁴)	1132.62	1132.62	1132.62	1132.62	1132.62	1132.62	1081.44	1081.44	848.67	848.67
$S_{S\ 2-2}$(in□)	141.58	141.58	141.58	141.58	141.58	141.58	135.18	135.18	109.51	109.51
F_a (ksi)*	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32
$k_1L\ /r_{\ 1}$	18.69	18.69	18.82	18.82	21.90	21.90	20.45	20.45	21.82	21.82
$k_2L\ /r_{\ 2}$	15.49	15.49	18.55	18.55	21.58	21.58	20.15	20.15	20.40	20.40
Controlling Load Case	DL+LL+I+WL+LF+OF	DL+LL+I+WL+LF+OF	DL+LL+I+WL+LF+OF	DL+LL+I+WL+LF+OF	DL+LL+I+WL+LF+OF	DL+LL+I+WL+LF+OF	DL+LL+I+WL+LF+OF	DL+LL+I+WL+LF+OF	DL+LL+I+WL+LF+OF	DL+LL+I+WL+LF+OF
P (kips)*	84.04	84.04	213.52	213.52	178.65	178.65	191.61	191.61	162.74	162.74
f_a (ksi)*	1.82	1.82	4.63	4.63	3.10	3.10	5.09	5.09	5.49	5.49
M_{L-1} (k-ft)*	4.80	4.80	10.06	10.06	85.69	85.69	7.19	7.19	3.85	3.85
f_{b1} (ksi)*	12.12	12.12	9.85	9.85	1.25	1.25	11.07	11.07	9.11	9.11
F_{b1} (ksi)*	12.23	12.23	12.23	12.23	12.23	12.23	12.23	12.23	12.23	12.23
M_{b-2} (k-ft)*	227.59	227.59	185.01	185.01	16.23	16.23	143.10	143.10	102.46	102.46
f_{b2} (ksi)*	0.41	0.41	0.85	0.85	6.10	6.10	0.64	0.64	0.42	0.42
F_{b2} (ksi)*	12.26	12.26	12.26	12.26	12.26	12.26	12.26	12.26	12.26	12.26
f_a/F_a*	0.09	0.09	0.24	0.24	0.16	0.16	0.26	0.26	0.29	0.29
Allowable Stress Factor	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25
Ratio*	0.75	0.75	0.80	0.80	0.55	0.55	0.88	0.88	0.79	0.79
Fatigue Category ($S_{\ rtat}$)	B (16)	B (16)	B (16)	B (16)	B (16)	B (16)	B (16)	B (16)	B (16)	B (16)
f_s Range (ksi)	8.42	8.42	8.02	8.02	6.80	6.80	8.03	8.03	2.33	2.33

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CHICAGO TRANSIT AUTHORITY
ENGINEERING

SENSITIVE SECURITY INFORMATION

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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	S. LLURI
CHECKED BY	P. BUSCH
DESIGNED BY	S. HOANG
DRAWN BY	M. ROLKOWSKI

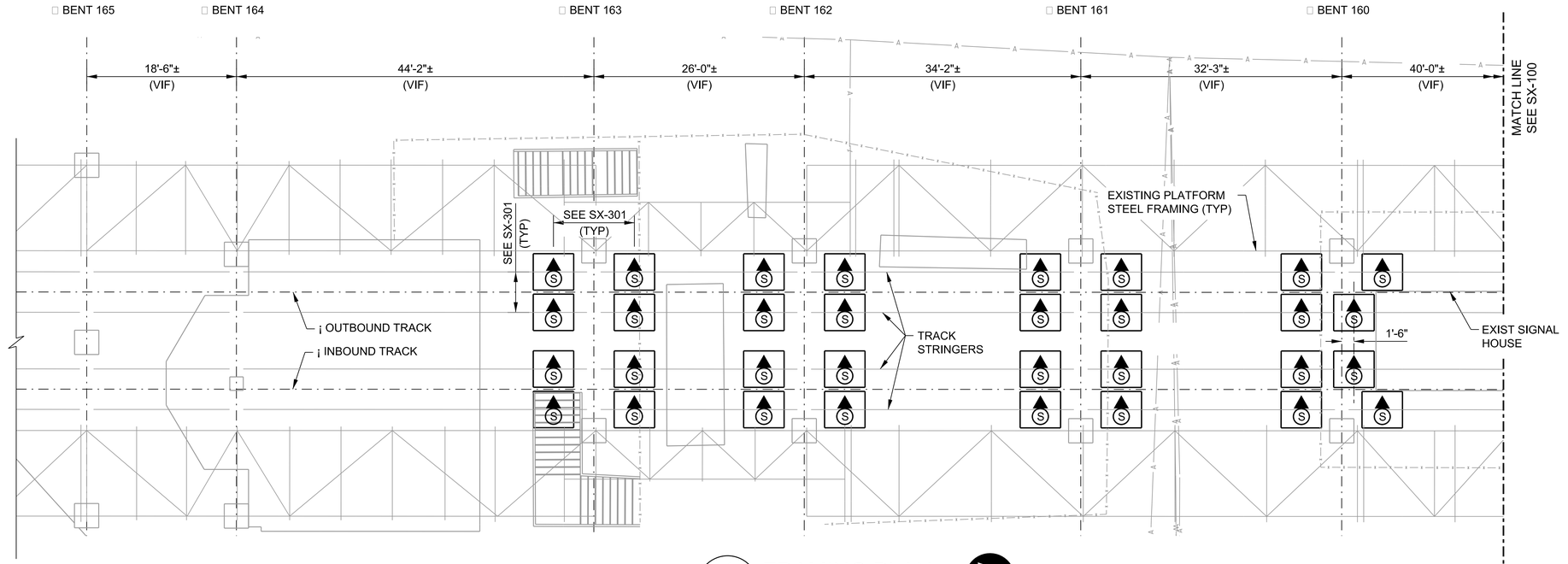
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0	12/30/24	ISSUE FOR BID

STRUCTURAL
LOAD TABLE - 2

LSCAL | ST-602

VOLUME: X OF X

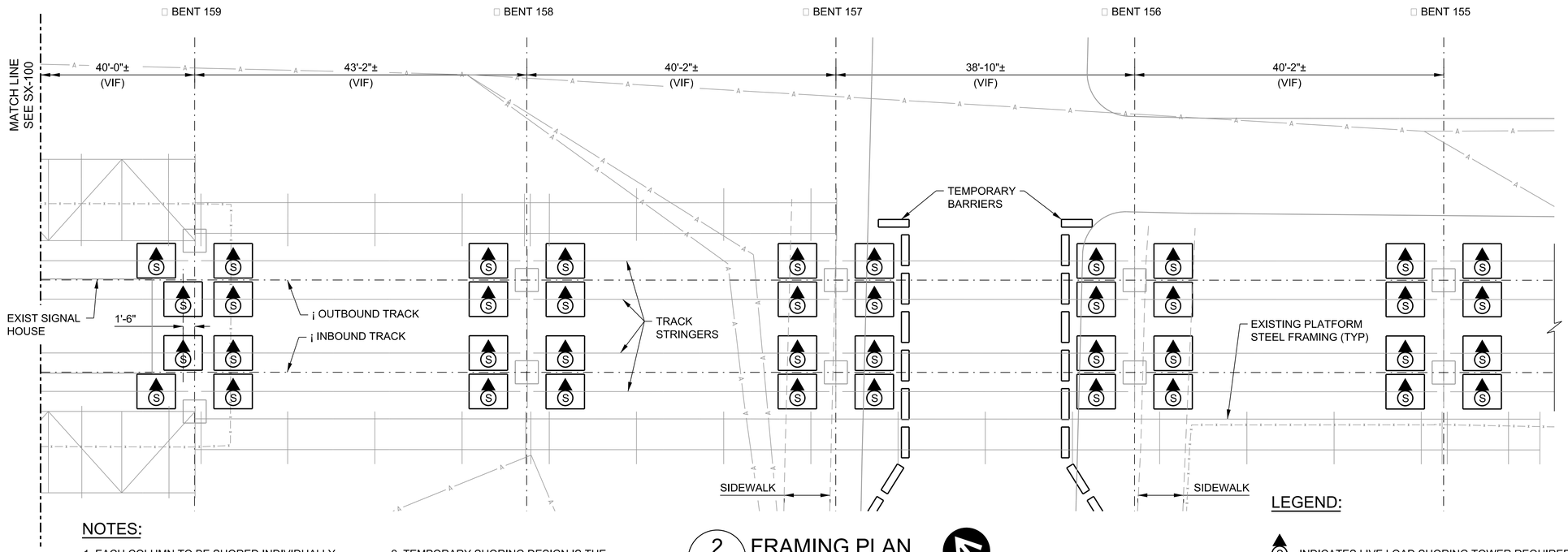
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PLOTTED ON: 11/5/2024 3:43:23 PM



1 SX-100 FRAMING PLAN

SCALE: 1/8"=1'-0"

NORTH



NOTES:

1. EACH COLUMN TO BE SHORED INDIVIDUALLY WITH THE SHORING TOWER TO BE MOVED TO EACH COLUMN WHEN REPAIR WORK IS TO BE DONE.
2. TEMPORARY SHORING DESIGN IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL DETAILS SHOWN ON SX SHEETS PROVIDE RECOMMENDATIONS FOR THE CONTRACTOR.

2 SX-100 FRAMING PLAN

SCALE: 1/8"=1'-0"

NORTH

LEGEND:

Ⓢ INDICATES LIVE LOAD SHORING TOWER REQUIRED TO SUPPORT EXISTING TRACK STRUCTURE PRIOR TO REMOVAL OF EXISTING COLUMN ELEMENTS.

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CHICAGO TRANSIT AUTHORITY
ENGINEERING

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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

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CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	S. LLURI
CHECKED BY	P. BUSCH
DESIGNED BY	S. HOANG
DRAWN BY	M. ROLKOWSKI

MARK	DATE	DESCRIPTION
0	12/30/24	ISSUE FOR BID

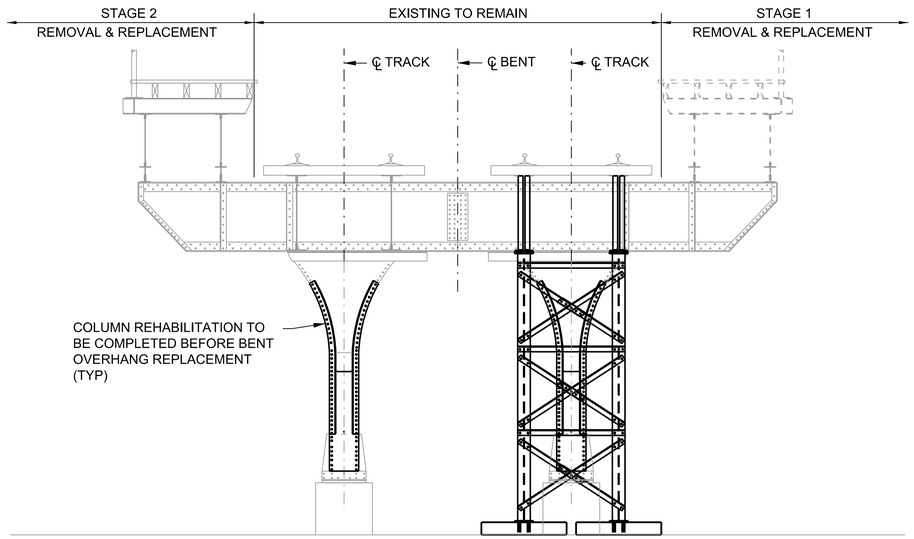
BENT STAGING PLAN - 1

LSCAL | SX-100

VOLUME: X OF X

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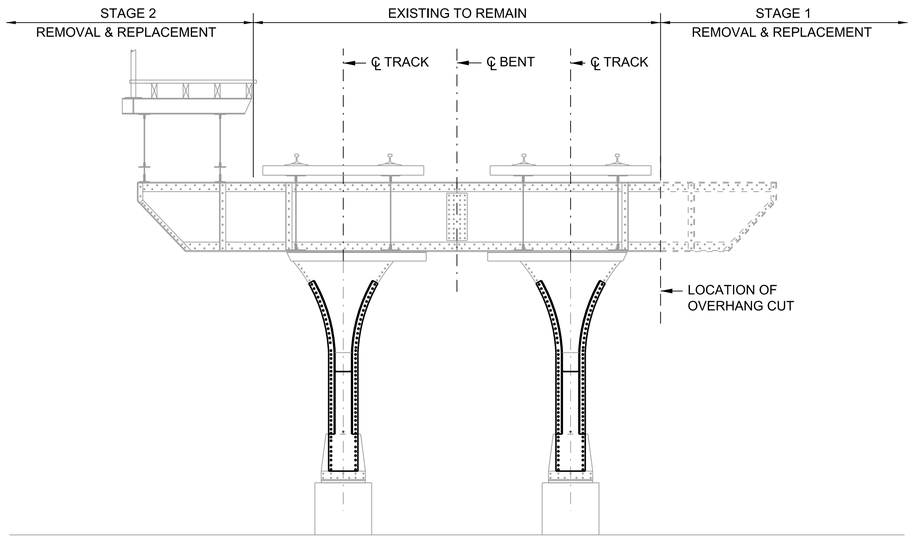
INBOUND OUTBOUND



1 SX-200 TYPICAL BENT OVERHANG REPLACEMENT STAGING - STAGE 1A

BENT 158 SHOWN, BENTS 155-157 SIMILAR

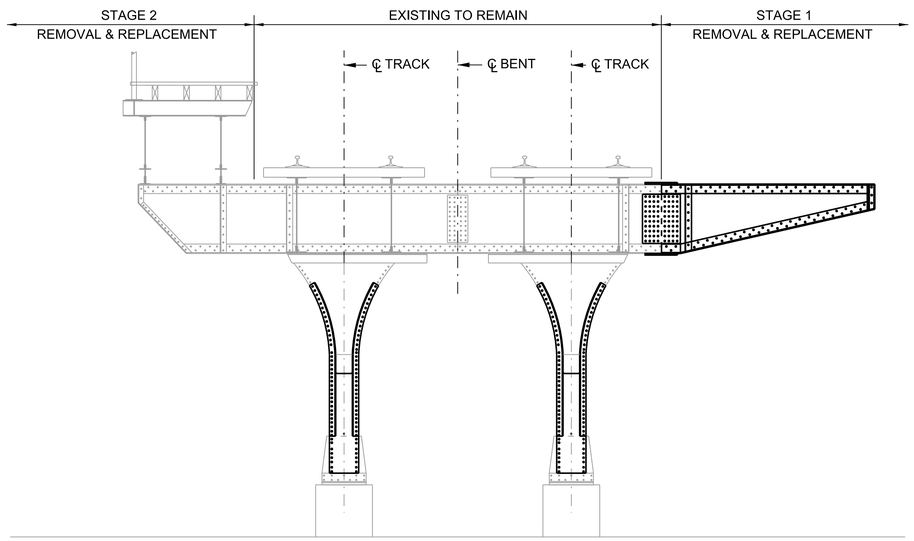
INBOUND OUTBOUND



2 SX-200 TYPICAL BENT OVERHANG REPLACEMENT STAGING - STAGE 1B

BENT 158 SHOWN, BENTS 155-157 SIMILAR

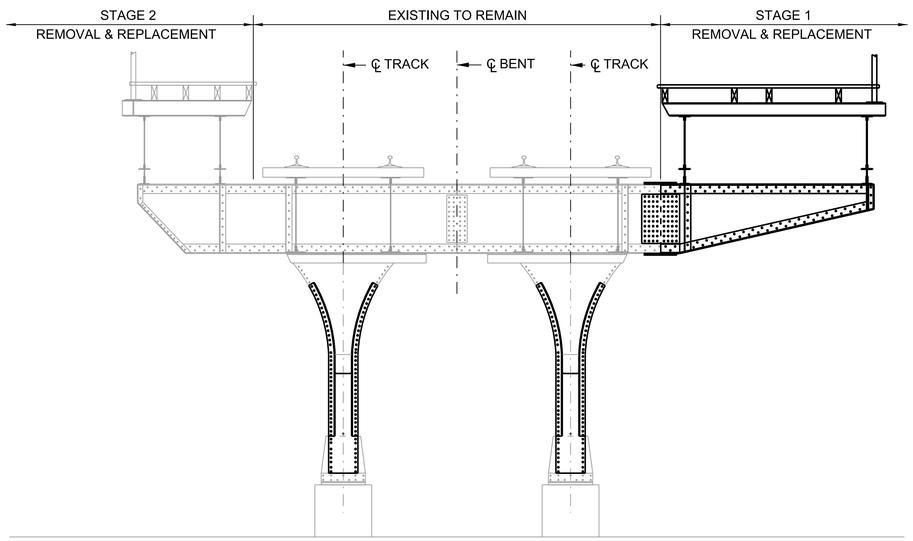
INBOUND OUTBOUND



3 SX-200 TYPICAL BENT OVERHANG REPLACEMENT STAGING - STAGE 1C

BENT 158 SHOWN, BENTS 155-157 SIMILAR

INBOUND OUTBOUND



4 SX-200 TYPICAL BENT OVERHANG REPLACEMENT STAGING - STAGE 1D

BENT 158 SHOWN, BENTS 155-157 SIMILAR

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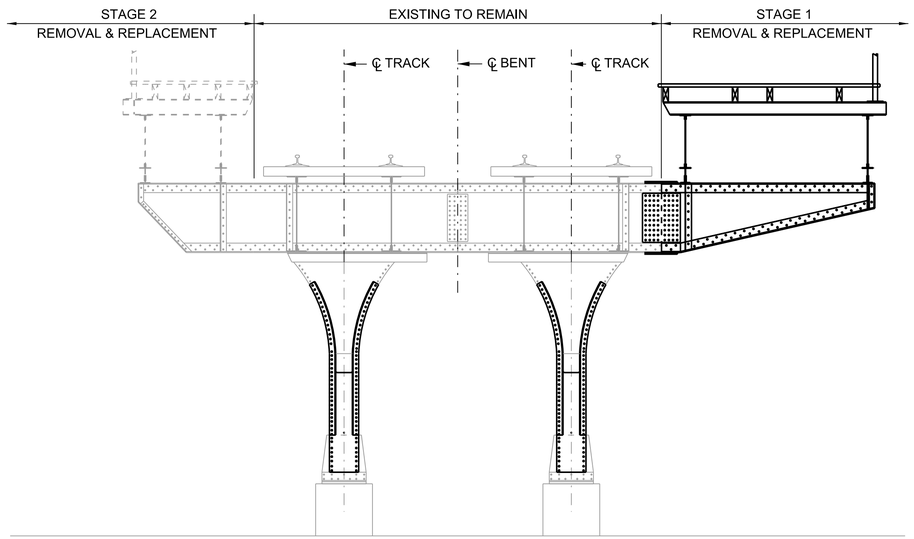
BENT STAGING ELEVATION - 1

LSCAL | SX-200

VOLUME: X OF X

PLOTTED ON: 11/5/2024 3:43:35 PM ...\02_Sheets\072_LSCAL_SX-200.dgn

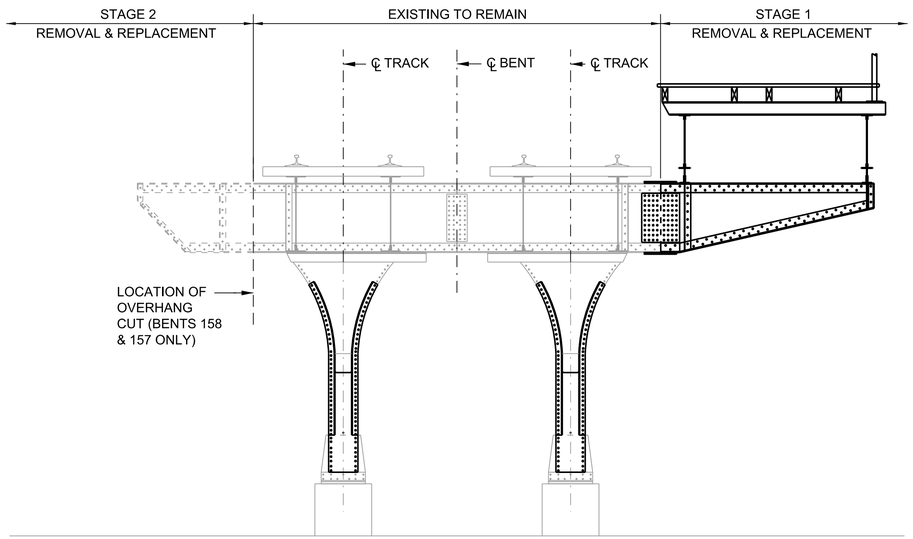
INBOUND OUTBOUND



1 SX-201 TYPICAL BENT OVERHANG REPLACEMENT STAGING - STAGE 2A

BENT 158 SHOWN, BENT 157 SIMILAR

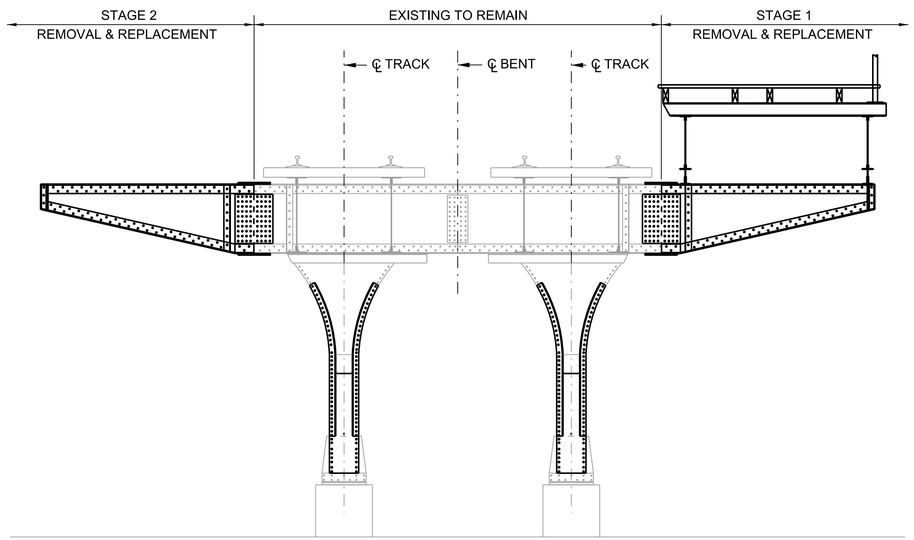
INBOUND OUTBOUND



2 SX-201 TYPICAL BENT OVERHANG REPLACEMENT STAGING - STAGE 2B

BENT 158 SHOWN, BENT 157 SIMILAR (SEE DETAIL 1 ON ST-506 FOR BENTS 155 & 156 OVERHANG PREPARATION)

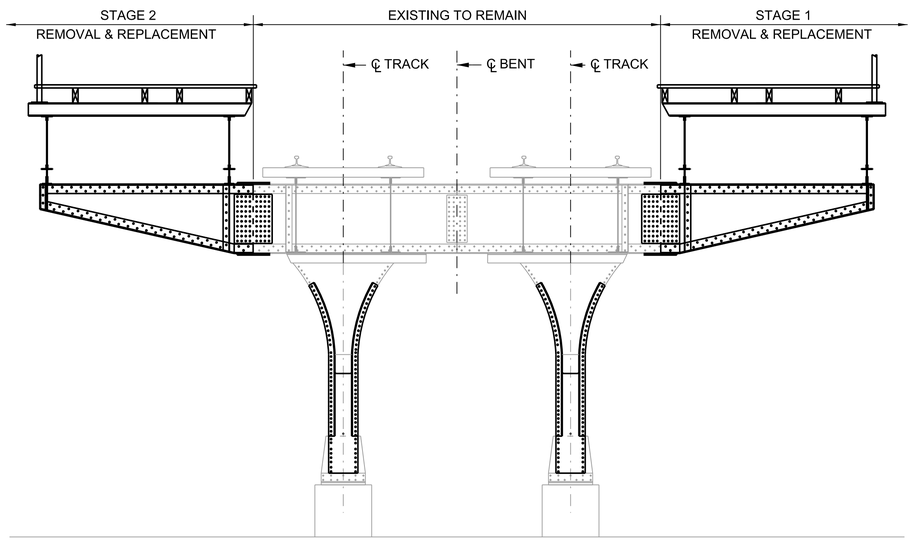
INBOUND OUTBOUND



3 SX-201 TYPICAL BENT OVERHANG REPLACEMENT STAGING - STAGE 2C

BENT 158 SHOWN, BENTS 155-157 SIMILAR

INBOUND OUTBOUND



4 SX-201 TYPICAL BENT OVERHANG REPLACEMENT STAGING - STAGE 2D

BENT 158 SHOWN, BENTS 155-157 SIMILAR

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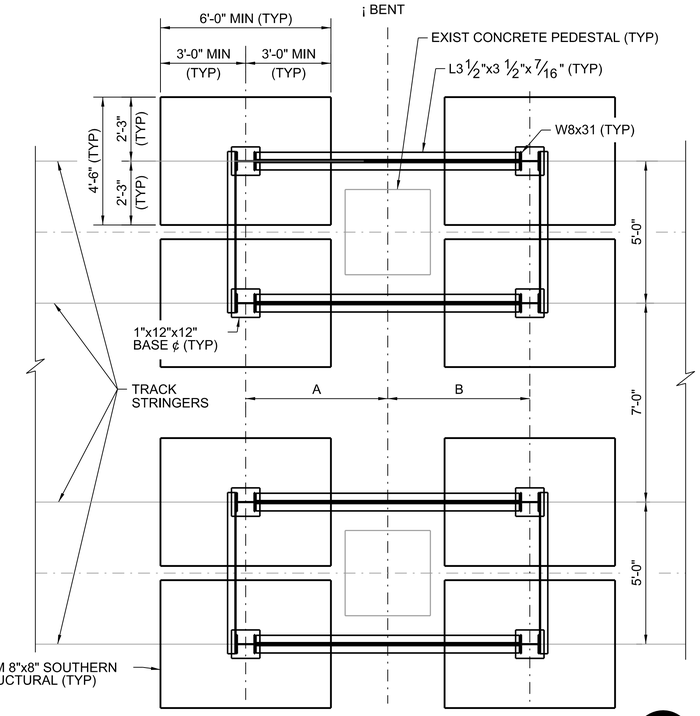
MARK	DATE	DESCRIPTION
0	12/30/24	ISSUE FOR BID

BENT STAGING ELEVATION - 2

LSCAL | SX-201

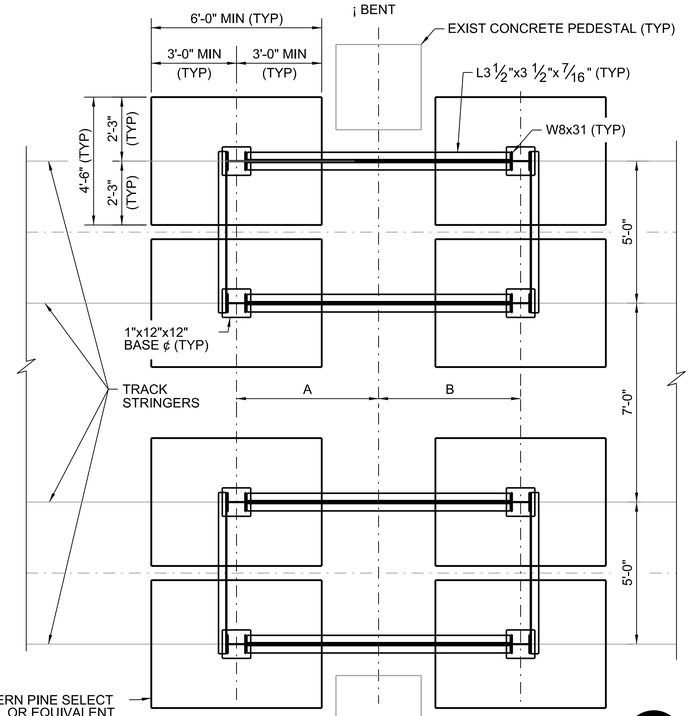
VOLUME: X OF X

PLOTTED ON: 11/5/2024 3:43:40 PM ...\02_Sheets\072_LSCAL_SX-201.dgn



INBOUND COLUMN				
BENT	A	B	C	H
155	5'-0"	5'-0"	8 5/16"	14'-11 13/16"
156	5'-0"	5'-0"	11 5/16"	15'-2 13/16"
157	5'-0"	5'-0"	1'-1 3/4"	15'-5 5/16"
158	5'-0"	5'-0"	8 5/8"	15'- 1/8"
159	5'-0"	5'-0" MAX	9 3/16"	15'- 11/16"
160	5'-0"	5'-0" MAX	1'-2 5/16"	15'-5 13/16"
161	5'-0"	5'-0"	1'-5 5/16"	15'-8 13/16"
162	5'-0"	5'-0"	2'-2 13/16"	16'-6 5/15"
163	5'-0"	5'-0"	1'-11 5/16"	16'-2 13/16"
164	5'-0"	5'-0"	2'-1 1/16"	16'-4 9/16"

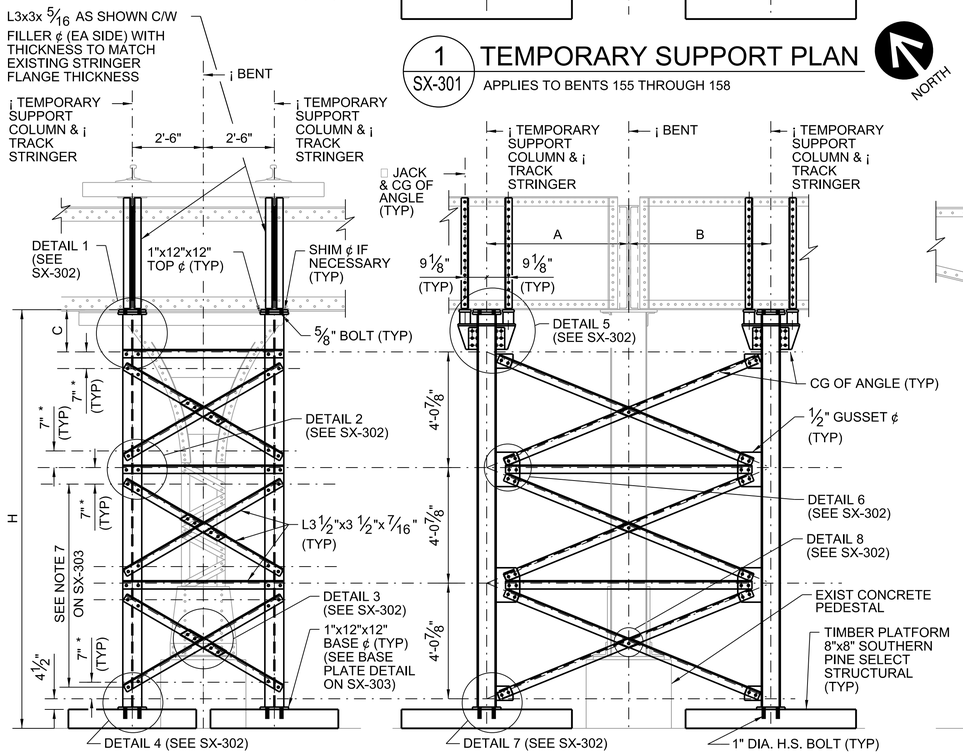
OUTBOUND COLUMN				
BENT	A	B	C	H
155	5'-0"	5'-0"	5 5/16"	14'-8 13/16"
156	5'-0"	5'-0"	11 5/16"	15'-2 13/16"
157	5'-0"	5'-0"	11 5/16"	15'-2 13/16"
158	5'-0"	5'-0"	8 5/8"	15'- 1/8"
159	5'-0" MAX	5'-0"	5 1/8"	14'-8 11/16"
160	5'-0" MAX	5'-0"	1'-2 5/16"	15'-5 13/16"
161	5'-0"	5'-0"	1'-2 5/16"	15'-5 13/16"
162	5'-0"	5'-0"	1'-11 5/16"	16'-2 13/16"
163	5'-0"	5'-0"	1'-11 5/16"	16'-2 13/16"
164	5'-0"	5'-0"	1'-11 5/16"	16'-2 13/16"



1 SX-301 **TEMPORARY SUPPORT PLAN**

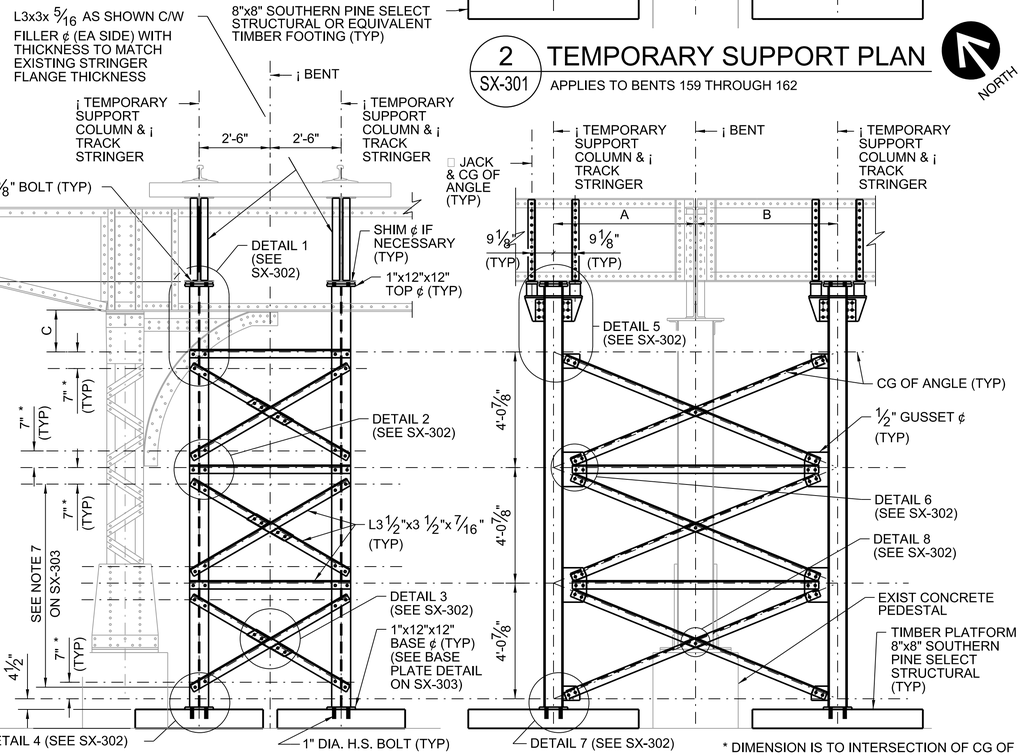
APPLIES TO BENTS 155 THROUGH 158

NORTH



3 SX-301 **TEMPORARY SUPPORT ELEVATION**

APPLIES TO BENTS 155 THROUGH 158



4 SX-301 **TEMPORARY SUPPORT ELEVATION**

APPLIES TO BENTS 159 THROUGH 162

2 SX-301 **TEMPORARY SUPPORT PLAN**

APPLIES TO BENTS 159 THROUGH 162

NORTH

* DIMENSION IS TO INTERSECTION OF CG OF ANGLE AND ¡ TEMPORARY SUPPORT COLUMN.

NOTES:

1. FOR NOTES, SEE SHEET SX-303.

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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

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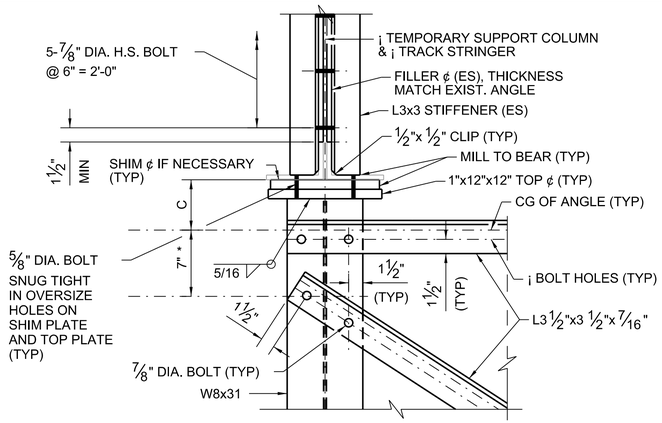
PROJECT NO	2015-0027.04
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TEMPORARY SUPPORT DETAILS - 1

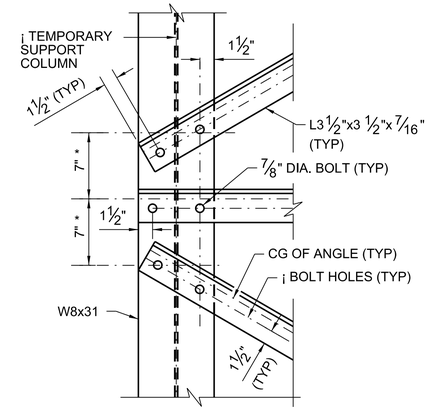
LSCAL | SX-301

VOLUME: X OF X



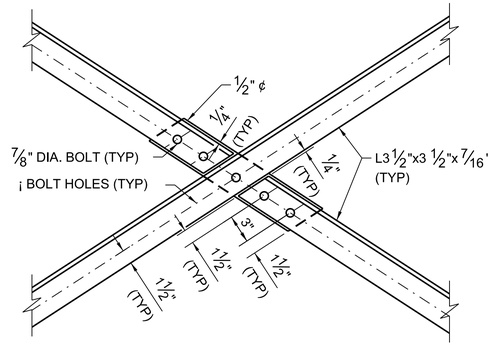
1 SX-302 ANGLE TO COLUMN CONNECTION

SCALE: 1 1/2"=1'-0"



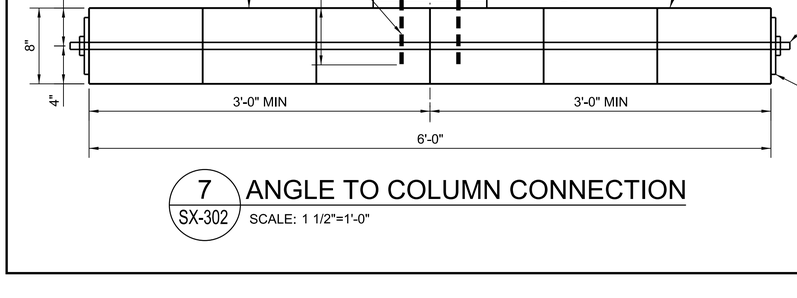
2 SX-302 ANGLE TO COLUMN CONNECTION

SCALE: 1 1/2"=1'-0"



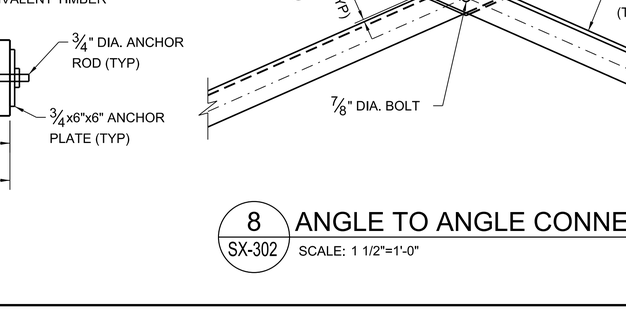
3 SX-302 ANGLE TO ANGLE CONNECTION

SCALE: 1 1/2"=1'-0"



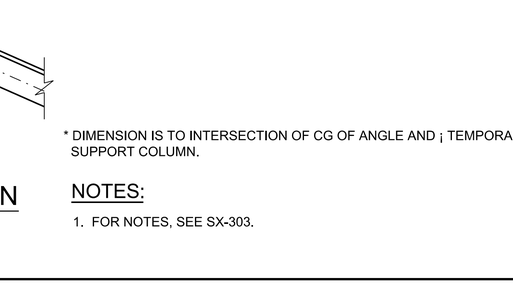
4 SX-302 ANGLE TO COLUMN CONNECTION

SCALE: 1 1/2"=1'-0"



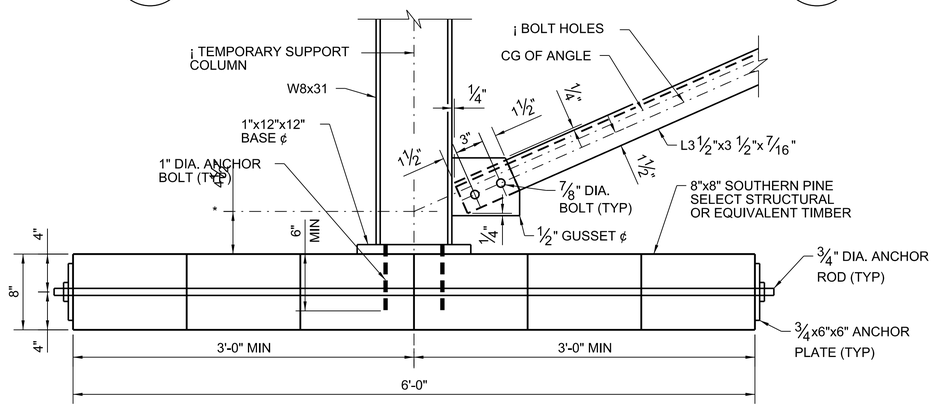
5 SX-302 ANGLE TO COLUMN CONNECTION

SCALE: 1 1/2"=1'-0"



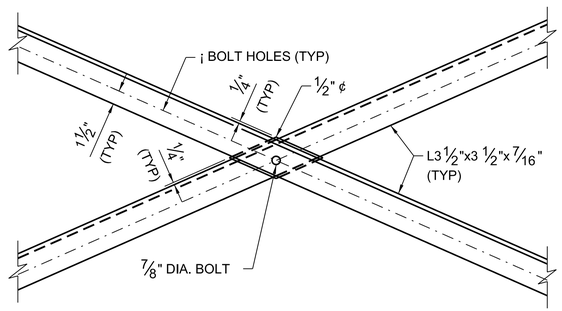
6 SX-302 ANGLE TO COLUMN CONNECTION

SCALE: 1 1/2"=1'-0"



7 SX-302 ANGLE TO COLUMN CONNECTION

SCALE: 1 1/2"=1'-0"



8 SX-302 ANGLE TO ANGLE CONNECTION

SCALE: 1 1/2"=1'-0"

* DIMENSION IS TO INTERSECTION OF CG OF ANGLE AND ¡ TEMPORARY SUPPORT COLUMN.

NOTES:

1. FOR NOTES, SEE SX-303.

HNTB

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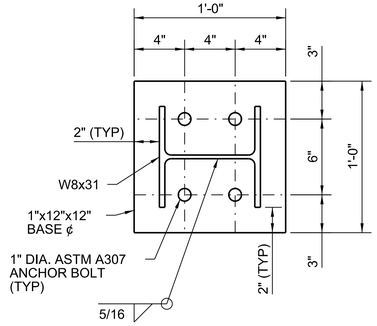
MARK	DATE	DESCRIPTION
0	12/30/24	ISSUE FOR BID

TEMPORARY SUPPORT DETAILS - 2

LSCAL | SX-302

VOLUME: X OF X

PLOTTED ON: 11/5/2024 3:43:53 PM ...\02_Sheets\072_LSCAL_SX-302.dgn



1 SX-303 BASE PLATE DETAIL

SCALE: 2"=1'-0"

NOTES:

1. ALL STEEL FOR TEMPORARY SUPPORTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 50 UNLESS NOTED OTHERWISE.
2. ALL BOLTS SHALL BE 7/8" DIA. ASTM A325 H.S. UNLESS NOTED OTHERWISE.
3. ALL ANCHOR RODS SHALL CONFRIM TO THE REQUIREMENTS OF ASTM F1554 GRADE 36.
4. ALL WASHERS SHALL CONFIRM TO REQUIREMENTS OF ASTM F436. ALL NUTS SHALL BE HEX H64 ASTM A563.
5. VERIFY EXISTING GRADE BEARING CAPACITY IS 3,000 PSF MINIMUM BEFORE PLACING TIMBER FOUNDATION.
6. TEMPORARY SUPPORTS SHALL BE REMOVED AFTER RETROFIT OF BENT COLUMNS ARE COMPLETED.
7. BOTTOM AND MIDDLE CROSS BRACING CAN BE REMOVED TO FACILITATE CONSTRUCTABILITY OF COLUMN REHABILITATION.

HNTB

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CHICAGO TRANSIT AUTHORITY
ENGINEERING

SENSITIVE SECURITY INFORMATION

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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	S. LLURI
CHECKED BY	S. HOANG
DESIGNED BY	P. BUSCH
DRAWN BY	M. ROLKOWSKI

MARK	DATE	DESCRIPTION
0	12/30/24	ISSUE FOR BID

TEMPORARY SUPPORT DETAILS - 3

LSCAL | SX-303

VOLUME: X OF X

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GENERAL NOTES:

1. ELEVATIONS SHOWN ON THE PLANS ARE BASED ON CHICAGO CITY DATUM WHICH IS 579.88 FEET ABOVE MEAN SEA LEVEL, NEW YORK 1935 ADJUSTMENT

2. CONSTRUCTION AND MATERIALS SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF THE CHICAGO TRANSIT AUTHORITY AND CHICAGO DEPARTMENT OF TRANSPORTATION AND OF THE LAWS, CODES, ORDINANCES AND REGULATIONS OF FEDERAL, STATE AND MUNICIPAL AUTHORITIES HAVING JURISDICTION.

3. ALL WORK IN THE PUBLIC WAY REQUIRES A PERMIT FROM THE OFFICE OF EMERGENCY MANAGEMENT AND COMMUNICATIONS, CITY HALL, 9TH FLOOR.

4. THE CONTRACTOR MAY BE REQUIRED TO PAY INSPECTION FEES TO THE VARIOUS DEPARTMENTS OF THE CITY OF CHICAGO. THE COSTS WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

5. THE CONTRACTOR MUST OBTAIN ALL NECESSARY PERMITS FROM THE CITY OF CHICAGO AND THE STATE OF ILLINOIS PRIOR TO COMMENCING CONSTRUCTION. THE COSTS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

6. IN THE EVENT OF A CONFLICT OR INCONSISTENCY IN OR AMONG THE CONTRACT DOCUMENTS, OR BETWEEN THE CONTRACT DOCUMENTS AND APPLICABLE CODES IN EFFECT AT THE TIME THE CONTRACT SUM IS BID OR NEGOTIATED, THE CONTRACTOR SHALL PROVIDE THE MATERIAL, EQUIPMENT OR WORK THAT REPRESENTS: THE GREATEST QUANTITY; HIGHEST QUALITY; HIGHEST DEGREE OF SAFETY; BEST PERFORMANCE; AND ADHERENCE TO THE MOST STRINGENT CRITERIA AMONG THE CONFLICTING OR INCONSISTENT INFORMATION.

7. THE CHICAGO TRANSIT AUTHORITY DOES NOT GUARANTEE THE COMPLETENESS OR ACCURACY OF THE INFORMATION SHOWN ON THE DRAWINGS, INCLUDING UTILITIES. IT IS IMPERATIVE THAT THE CONTRACTOR FULLY FAMILIARIZE ITSELF WITH ALL EXISTING STRUCTURES, SEWER AND UTILITY LOCATIONS,SITE CONDITIONS,EXISTING BUILDING DRAWINGS, SURVEYS AND REPORTS. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND CONDITIONS SHOWN OR DESCRIBED TO BE EXISTING BY ITS OWN FIELD SURVEY PRIOR TO THE START OF SHOP DRAWING PREPARATION, FABRICATION OR SITE CONSTRUCTION. SUCH FIELD SURVEY DETERMINATION UTILIZING TEST PITS TO DETERMINE THE VERTICAL AND HORIZONTAL DIMENSIONAL LOCATIONS OF ALL POTENTIALLY AFFECTED UTILITIES. NOTIFY THE CHICAGO TRANSIT AUTHORITY OF DISCREPANCIES IN WRITING BEFORE PROCEEDING WITH THE WORK.

8. THE CHICAGO TRANSIT AUTHORITY WILL NOT BE RESPONSIBLE FOR NOR WILL HAVE CONTROL OVER OR CHARGE OF QUALITY CONTROL, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PHASING OR PROCEDURES OR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, NOR WILL THEY BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE CONTRACTOR WILL HAVE SOLE RESPONSIBILITY OF THESE ITEMS. THE CHICAGO TRANSIT AUTHORITY WILL NOT BE RESPONSIBLE FOR OR HAVE CONTROL OR CHARGE OVER THE ACTS OR OMISSIONS OF THE CONTRACTORS, THEIR AGENTS OR EMPLOYEES, OR ANY OTHER PERSON PERFORMING ANY OF THE WORK.

9. DETAILS SHOWN MAY NOT NECESSARILY GRAPHICALLY REPRESENT ALL COMPONENTS NECESSARY TO COMPLETE THE TOTAL SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL OF THE REQUIREMENTS SHOWN ON THE DRAWINGS WITH THOSE STATED IN THE APPLICABLE SPECIFICATIONS AND PROJECT NOTES TO PROVIDE A COMPLETE SYSTEM.

10. DETAILS SHOWN ARE INTENDED TO BE INDICATIVE OF THE PROFILES AND TYPE OF DETAILING REQUIRED FOR THE WORK. CONDITIONS NOT COVERED BY SPECIFIC DETAILS ARE SIMILAR IN CHARACTER AND QUALITY TO THOSE DETAILED AND SHALL MEET SPECIFIED DESIGN CRITERIA.

11. DIMENSIONS WILL GOVERN; DO NOT SCALE DRAWINGS.

12. WHERE SPECIFIC DIMENSIONS, DETAILS, OR DESIGN INTENT CANNOT BE DETERMINED, CONSULT THE CHICAGO TRANSIT AUTHORITY IN WRITING BEFORE PROCEEDING WITH THE WORK.

13. THE EXISTING TRACK BENT COLUMN TO COLUMN SPACING VARIES. DIMENSIONS SHOWN INDICATE THE "GRID" DIMENSIONS, EXISTING CONDITION SURVEY INFORMATION ONLY. THE CONTRACTOR SHALL CONDUCT ITS OWN FIELD SURVEY TO ESTABLISH EXISTING DIMENSIONAL PARAMETERS AS RELATES TO THE DESIGN BEFORE PROCEEDING WITH THE WORK. NOTIFY THE CHICAGO TRANSIT AUTHORITY IN WRITING OF DISCREPANCIES WHICH WILL NOT ALLOW EXECUTION OF THE DESIGN AS SHOWN.

14. ELEMENTS SHALL BE SHOP FABRICATED TO THE GREATEST EXTENT POSSIBLE AND SHIPPED PROTECTED TO REDUCE FIELD WELDING AND FIELD TOUCH UP.

15. WHEN NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS THE CONTRACTOR SHALL PROVIDE MOCKUPS WHICH, WHEN ACCEPTED, MAY BECOME PART OF THE FINAL WORK AT THE CHICAGO TRANSIT AUTHORITY'S APPROVAL.

16. MOVING UTILITIES WILL BE THE RESPONSIBILITY OF THE UTILITY OWNERS EXCEPT AS NOTED ON THE PLANS, IN THE GENERAL NOTES, AND IN THE SPECIFICATIONS. THE CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING ANY UTILITY RELOCATION(S). THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES IN ADVANCE, ALLOWING SUFFICIENT TIME TO COMPLETE THE WORK IN ACCORDANCE WITH THE CONTRACTOR'S SCHEDULE. COORDINATION EFFORTS WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

17. AS-BUILT PLANS WILL BE SUBMITTED SOON AFTER WORK COMPLETION. FINAL PAYMENT WILL NOT BE MADE TO THE CONTRACTOR UNTIL THE DEPARTMENT ACKNOWLEDGES RECEIPT OF AS BUILT PLANS. CONTRACTOR WILL SUBMIT COMPLETE SET OF AS BUILT DRAWINGS AND COMPLETE SET OF PLANS ON A CD IN PDF FORMAT TO CHICAGO DEPARTMENT OF TRANSPORTATION, DIVISION OF ENGINEERING. THE COST FOR ALL PAPER AND ELECTRONIC ASBUILT PLANS WILL BE CONSIDERED IN THE COST OF THE CONTRACT.

18. THE CONTRACTOR MUST BE RESPONSIBLE FOR CLEANING, REMOVING, OR REPAIRING ANY GRAFFITI AND/OR VANDALISM WITHIN THE PROJECT LIMITS.

19. THE CHICAGO TRANSIT AUTHORITY EXPRESSLY DISCLAIMS ANY RESPONSIBILITY ARISING FROM ANY UNAUTHORIZED USE OF THESE DRAWINGS, PLANS, AND NOTES. ANY AUTHORIZATION MUST BE IN WRITING. THESE DRAWINGS MAY HAVE BEEN REPRODUCED AT A SIZE DIFFERENT THAN ORIGINALLY DRAWN.

20. THE CONTRACTOR IS TO REVIEW AND HAVE A COMPLETE COMMAND OF THE VARIOUS PHASES OF THE CONSTRUCTION WORK PLUS A TOTAL UNDERSTANDING OF THE UNIQUE MANPOWER AND SUPPLY SCHEDULE REQUIREMENTS SPECIFIC TO THE SITE. THE CONTRACTOR MUST COORDINATE ALL CONSTRUCTION RELATED ACTIVITIES WITH TRAIN SCHEDULES, OPERATING REQUIREMENTS, AND ANY RESULTING HAZARDOUS CONDITIONS.

21. THE CONTRACTOR MUST PROVIDE ALL REQUIRED PERMITS NECESSARY FOR THE PROJECT AND COSTS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. THE CONTRACTOR WILL PERFORM ALL WORK IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF CHICAGO BUILDING CODE AND ALL APPLICABLE COUNTY, STATE, AND FEDERAL LAWS, CODES, ORDINANCES, AND REGULATIONS BY MUNICIPAL AUTHORITIES HAVING JURISDICTION, INCLUDING THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ADOPTED PURSUANT THERETO, STATE OF ILLINOIS ACCESSIBILITY STANDARDS AND ADA GUIDELINES, AS WELL AS APPLICABLE REQUIREMENTS OF THE CHICAGO TRANSIT AUTHORITY AND CHICAGO DEPARTMENT OF TRANSPORTATION AND OF THE LAWS, CODES, ORDINANCES AND REGULATIONS OF FEDERAL STATE AND MUNICIPAL AUTHORITIES HAVING JURISDICTION.

22. THE CONTRACTOR MUST BE RESPONSIBLE FOR COORDINATION WITH THE CHICAGO TRANSIT AUTHORITY REGARDING ALL NEW AND/OR REMEDIAL CONSTRUCTION INCLUDING BUT NOT LIMITED TO SIGNAL WORK, COMMUNICATIONS, ETC. THAT THE OWNER/CHICAGO TRANSIT AUTHORITY MAY HAVE IN PROGRESS WITHIN THE SAME PERIOD.

23. THE CONTRACTOR MUST COORDINATE AND CONFIRM WITH THE OWNER/CHICAGO TRANSIT AUTHORITY THE HOURS OF CONSTRUCTION (AND RAILWAY OPERATIONS) FOR THE ENTIRE SCHEDULE OF CONSTRUCTION.

24. THE CONTRACTOR MUST BE RESPONSIBLE FOR COORDINATION WITH WORK NOTED "(N.I.C.)", IF ANY, WHICH IS BEING PERFORMED UNDER SEPARATE CONTRACT WHERE IT INTERFACES WITH OR AFFECTS WORK UNDER THIS CONTRACT.

25. THE CONTRACTOR MUST BE RESPONSIBLE FOR SECURING THE JOB SITE AND THE PROTECTION OF THE GENERAL PUBLIC FROM ALL POSSIBLE HAZARDS OF THE ENTIRE CONSTRUCTION SITE.

26. REFER TO THE TECHNICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION AND COORDINATION OF THE WORK. IN THE EVENT OF DISCREPANCIES BETWEEN DRAWINGS OR DRAWINGS AND SPECIFICATIONS, CONSULT THE CHICAGO TRANSIT AUTHORITY FOR CLARIFICATION DURING THE BID PERIOD BEFORE PROCEEDING WITH THE WORK.

27. THE CONTRACTOR MUST ASSURE ITSELF BY INDEPENDENT SURVEY THAT NO HAZARDOUS MATERIALS ARE HANDLED OR DISTRIBUTED. IF HAZARDOUS MATERIALS ARE ENCOUNTERED, IT MUST BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CHICAGO TRANSIT AUTHORITY.

28. THE GENERAL CONTRACTOR AND/OR TRADE CONTRACTOR MUST PROTECT ALL EXISTING SITE ELEMENTS FROM DAMAGE DUE TO ALTERATIONS AND CONSTRUCTION OPERATIONS, AND REPAIR OR REPLACE ELEMENTS DAMAGED DURING THIS PROJECT AT HIS/HER OWN EXPENSE.

29. DRAWINGS ARE TO BE ISSUED TO THE SUBCONTRACTORS BY THE CONTRACTOR IN COMPLETE SETS SO THAT THE EXTENT AND COORDINATION OF WORK IS MADE POSSIBLE.

30. THE CONTRACTOR MUST BE SOLELY RESPONSIBLE FOR THE ACCURATE PLACEMENT AND CONDITIONS OF THE WORK.

31. THE CONTRACTOR IS TO PROTECT, MOVE, AND STORE THE OWNER'S FIXTURES, FURNISHINGS, AND EQUIPMENT.

32. THE CONTRACTOR MUST VISIT THE SITE AND BE KNOWLEDGEABLE OF ALL CONDITIONS THEREON. THE CONTRACTOR SHALL INVESTIGATE, VERIFY, AND BE RESPONSIBLE FOR ALL CONDITIONS OF THE PROJECT AND SHALL NOTIFY THE CHICAGO TRANSIT AUTHORITY OF ANY CONDITIONS REQUIRING MODIFICATION OR CLARIFICATION BEFORE PROCEEDING WITH THE WORK. NOTES APPEAR ON VARIOUS SHEETS FOR DIFFERENT SYSTEMS AND MATERIALS: NOTES REFER TO RELATED STRUCTURAL/MEP AND DETAIL DRAWINGS. THESE SHEETS ARE TO BE REVIEWED AND NOTES ON ANY ONE SHEET ARE TO BE APPLIED ON RELATED DRAWINGS AND DETAILS. WHERE DISCREPANCIES EXIST WITHIN THE CONTRACT DOCUMENTS AND/OR BETWEEN THE DRAWINGS OF VARIOUS DISCIPLINES, CONSULT THE CHICAGO TRANSIT AUTHORITY DURING THE BID PERIOD FOR CLARIFICATION AND PRIOR TO PROCEEDING WITH THE WORK.

33. DRAWINGS THAT REPRESENT THE EXISTING PLAN CONDITIONS ARE DIAGRAMMATICALLY SHOWN. EXACT LOCATIONS, SIZES, EXTENT, AND CONDITIONS OF EXISTING CONSTRUCTION TO BE REMOVED, RELOCATED OR TO REMAIN SHALL BE VERIFIED AT THE SITE BY THE CONTRACTOR.

34. PARTIAL REMOVAL OF EXISTING STATIONHOUSE CONSTRUCTION TO ACCOMMODATE NEW PLATFORM SUPPORT COLUMN MUST BE DOCUMENTED IN A SUBMITTAL FOR APPROVAL BY CTA AND DOR PRIOR TO START OF WORK, INCLUDING THE EXTENT OF REMOVAL AND THE SEQUENCING THEREOF.

35. ALL METAL COMPONENTS ASSOCIATED WITH THE ELEVATOR SYSTEM AND ENCLOSURE SHALL BE ISOLATED FROM TRACK AND PLATFORM STRUCTURE WITH 1/2" NEOPRENE STRIPS TO PREVENT AGAINST GALVANIC CORROSION CAUSED BY DIFFERENTIAL POTENTIAL OF ELEVATOR, TRACK AND PLATFORM STRUCTURE.

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JOHNSON LASKY KINDELIN ARCHITECTS

CHICAGO TRANSIT AUTHORITY
ENGINEERING

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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	M. KINDELIN
CHECKED BY	JW
DESIGNED BY	JW
DRAWN BY	JW, JC, RS, HN

MARK	DATE	DESCRIPTION
0	12/30/2024	ISSUE FOR BID

GENERAL NOTES

LSCAL | A-001

VOLUME: 1 OF 1

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ARCHITECTURAL ABBREVIATIONS

&	AND
@	AT
Ø	DIAMETER, ROUND
%	PERCENT
#	NUMBER (BEFORE), POUND (AFTER)
°	DEGREE

"A"

AB	ANCHOR BOLTS
ABR	ABRASIVE
AC	ACRYLIC
ACT	ACOUSTICAL CEILING TILE
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AGG	AGGREGATE
ALT	ALTERNATE
ALUM	ALUMINUM
ANOD	ANODIZED
AP	ACCESS PANEL
APPD	APPROVED
APPROX	APPROXIMATE(LY)
ARCH	ARCHITECTURAL
ASPH	ASPHALT
AVG	AVERAGE
AWP	ACOUSTICAL WALL PANEL

"B"

B	WALL BASE
BD	BOARD
BFF	BELOW FINISHED FLOOR
BIT	BITUMINOUS
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BOD	BOTTOM OF DUCT
BOL	BOTTOM OF LOUVER
BOP	BOTTOM OF PIPE
BO	BOTTOM OF
BOT	BOTTOM
BRG	BEARING
BSMT	BASEMENT
BUR	BUILT-UP-ROOF

"C"

CAB	CABINET
CANTIL	CANTILEVER
CBN	CATCH BASIN
CE	CERAMIC
CEM	CEMENT
CF	CUBIC FOOT (FEET)
CG	CORNER GUARD
CHAN	CHANNEL
CHEM	CHEMICAL RESISTENT
CI	CAST IRON
CIRC	CIRCUMFERENCE
CJ	CONTROL JOINT
CKBD	CORKBOARD
CL	CENTERLINE, CLOSET
CLG	CEILING
CLKG	CAULKING
CLR	CLEAR
CMT	CERAMIC MOSAIC TILE
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
COMBO	COMBINATION
CONC	CONCRETE
CONST	CONSTRUCTION
CONST JT	CONSTRUCTION JOINT
CONT	CONTINUE / CONTINUOUS
CONT'D	CONTINUED
CONTR	CONTRACT, CONTRACTOR
COORD	COORDINATE
CORR	CORRIDOR
CORRUG	CORRUGATED
C	SHEET CARPETING
CB	CARPET BASE
CPT	CARPET TILE
CR	CHAIR RAIL
CSK	COUNTERSINK
CSKSCR	COUNTERSUNK SCREW
CT	CERAMIC TILE
CTR	CENTER
CWT	CERAMIC WALL TILE
CY	CUBIC YARD(S)

"D"

DB	DECK BUMPER
DBL	DOUBLE
DEG	DEGREE
DEMO	DEMOLISH / DEMOLITION
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DH	DOUBLE HUNG
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIV	DIVISION
DL	DEAD LOAD
DN	DOWN
DO	DOOR OPENING
DOR	DESIGNER OF RECORD
DR	DOOR
DS	DOWNSPOUT
DWG	DRAWING
DWL	DOWEL

"E"

E	EAST
EA	EACH
EB	EXPANSION BOLT
EF	EPOXY FLOORING
EFB	EPOXY WALL BASE
EIFS	EXTERIOR INSULATION FINISHING SYSTEM
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
EL, ELEV	ELEVATION
EM	EMERGENCY
ENCL	ENCLOSURE
ENGR	ENGINEER
EP	EPOXY PAINT
EQ	EQUAL
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
EST	ESTIMATE(D)
ETC	ET CETERA
ETR	EXISTING TO REMAIN
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EX, EXIST	EXISTING
EXC	EXCAVATION
EXH	EXHAUST
EXP	EXPANSION / EXPOSED
EXP STR	EXPOSED STRUCTURE
EXT	EXTERIOR

"F"

F	FABRIC
FAB	FABRICATE
FAC	FACTORY
FC	FIBER CEMENT
FD	FLOOR DRAIN, FOOTING DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISHED FLOOR
FFE	FINISHED FLOOR ELEVATION
FG	FLOOR GRILLE
FIG	FIGURE
FIN GR	FINISHED GRADE
FIXT	FIXTURE
FIN	FINISH(ED)
FL, FLR	FLOOR(ING)
FLCO	FLOOR CLEAN OUT
FLEX	FLEXIBLE
FLG	FLASHING
FLUR	FLUORESCENT
FM	FLOOR MOUNTED, ENTRANCE FLOOR MAT
FOC	FACE OF CONCRETE
FOIC	FURNISHED BY OWNER & INSTALLED BY CONTRACTOR
FOM	FACE OF MASONRY
FOP	FACE OF PARTITION
FOS	FACE OF STUD
FOW	FACE OF WALL
FP	FIRE PROTECTION
FR	FRAME
FRP	FIBERGLASS REINFORCED PLASTIC
FRTW	FIRE RETARDANT TREATED WOOD
FT	FEET, FLOOR TILE
FTG	FOOTING
FURR	FURRING
FUT	FUTURE
FV	FIELD VERIFY

"G"

GA	GUAGE
GAL	GALLON
GALV	GALVANIZED
GB	GRAB BAR, GRADE BEAM
GC	GENERAL CONTRACT(OR)
GEN	GENERAL
GL	GLASS / GLAZING
GR	GRADE
GRD	GROUND
GS	GALVANIZED STEEL
GT	GLASS TILE
GVL	GRAVEL
GWB	GYPSUM WALL BAORD
GYP	GYPSUM

"H"

HB	HOSE BIB
HC	HOLLOW CORE
HCP	HANDICAPPED
HCW	HOLLOW CORE WOOD
HD	HEAD
HDR	HEADER
HDW	HARDWARE
HGT	HEIGHT
HM	HOLLOW METAL
HMD	HOLLOW METAL DOOR
HMF	HOLLOW METAL FRAME
HORIZ	HORIZONTAL
HP	HIGH POINT
HPT	HIGH PERFORMANCE COATING
HR	HANDRAIL
HRDW	HARDWOOD
HVAC	HEATING, VENTILATION & AIR CONDITIONING
HW	HARDWARE
HWH	HOT WATER HEATER

"I"

ID	INSIDE DIAMETER
I.F.	INSIDE FACE
INCL	INCLUDED / INCLUDING
IND	INDUSTRIAL
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR
INV	INVERT

"J"

JC	JANITOR'S CLOSET
JST	JOIST
JT	JOINT

"K"

KD	KNOCK DOWN
KFS	KIPS PER SQUARE FOOT
KFT	KIP FOOT
KIT	KITCHEN
KP	KICKPLATE

"L"

L	ANGLE
LAM	LAMINATE(D)
LAV	LAVATORY
LB	POUND
LBL	LABEL
LBS	POUNDS
LF	LINEAR FEET
LG	LENGTH, LONG
LIN	LINEAR
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LMC	LINEAR METAL CEILING
LP	LOW POINT
LT	LIGHT
LTL	LINTEL
LVR	LOUVER
LVT	LUXURY VINYL TILE
LW	LONG WAY

"M"

MAX	MAXIMUM
MAN	MANUAL
MATL	MATERIAL
MCP	MULTI COLOR PAINT, METAL CLAD PANEL
MD	METAL DECK
MECH	MECHANICAL
MED	MEDIUM
MEM	MEMBER
MEMB	MEMBRANE
MEP	MECHANICAL / ELECTRICAL / PLUMBING
MFG	MANUFACTURING
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MLDG	MOLDING
MO	MASONRY OPENING
MOD	MODIFICATION
MP	METAL PANEL
MPC	METAL PANEL CEILINGS
MR	MOISTURE RESISTANT
MS	METAL STUD
MSS	MOP SERVICE SINK
MTD	MOUNTED
MTL	METAL
MULL	MULLION

"N"

N	NORTH
N/A	NOT APPLICABLE
NC	NON COMBUSTIBLE
NF	NEAR FACE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NS	NEAR SIDE
NTS	NOT TO SCALE

"O"

OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
O.F.	OUTSIDE FACE
OH	OPPOSITE HAND
OP	OPAQUE
OPNG	OPENING
OPP	OPPOSITE

"P"

PAR	PARALLEL
PART.	PARTITION
PC	POLISHED CONCRETE
PCC	PRECAST CONCRETE
PERF	PERFORATED
PERM	PERMANENT
PL	PLATE, PROPERTY LINE, PLASTIC LAMINATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLWD	PLYWOOD
PLUMB.	PLUMBING
PNL	PANEL
P	PAINT
PP	PLASTIC PANELING
PR	PAIR
PREFAB	PREFABRICATED
PREFIN	PREFINISHED
PRI	PRIMARY
PRMLD	PREMOLDED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQAURE INCH
PT	PRESSURE TREATED, PORCELAIN TILE
PTD	PAINTED
PVC	POLYVINYL CHLORIDE
PVT	PAVEMENT

"Q"

QUAL	QUALITY
QT	QUARRY TILE
QTY	QUANTITY

"R"

R	RISER, RADIUS
RB	ROOF BEAM, RUBBER WALL BASE, RESILIENT WALL BASE
RD	ROOF DRAIN
RECT	RECTANGLE / RECTANGULAR
REF	REFERENCE
REINF	REINFORCE / REINFORCING
REQ'D	REQUIRED
RES	RESILIENT
REV	REVISION(S) / REVISED
RF	RESILIENT FLOORING
RFG	ROOFING
RFH	ROOF HATCH
RL	RAILING
RM	ROOM
RO	ROUGH OPENING
RP	RESILIENT PANELING, RESINOUS PANEL
RT	RESILIENT TILE
RS	RESILIENT SHEET FLOORING/RUBBER SHEET FLOORING
RST	RESILIENT STAIR TREAD

"S"

S	SOUTH
S/C	SITE/CIVIL
SC	SEALED CONCRETE, SOLID CORE
SCW	SOLD CORE WOOD
SCH	SCHEDULE
SDT	STATIC DISIPATIVE TILE
SEC	SECOND
SECT	SECTION
SF	SQUARE FOOT (FEET)
SG	SAFTEY GLASS
SHT	SHEET
SHTG	SHEATHING
SHTRK	SHEETROCK
SIM	SIMILAR
SIM REV	SIMILAR REVISED
SJ	STEEL JOIST
SNT	SEALANT
SPEC	SPECIFICATION(S)
SQ	SQUARE
SS	SOLID SURFACE
ST	WOOD STAIN
STA	STATION
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURE / STRUCTURAL
STS	STAINLESS STEEL
SUSP	SUSPEND(ED)
SY	SQUARE YARD
SYM	SYMMETRICAL
SYS	SYSTEM

"T"

T	TREAD, TOP
TB	TILE WALL BASE
TBD	TO BE DETERMINED
TEL	TELEPHONE
TEMP	TEMPORARY, TEMPERATURE
TERR	TERRAZZO
TH	THRESHOLD
THK	THICK
THRD	THREAD(ED)
T.O.	TOP OF
TOB	TOP OF BLOCK
TOC	TOP OF CONCRETE, TOP OF CURB
TOD	TOP OF DUCT
TOF	TOP OF FOOTING
TOL	TOP OF LOUVER
TOM	TOP OF MASONRY (CONCRETE)
TOP	TOP OF PAVEMENT, TOP OF PIER
TOS	TOP OF SLAB, TOP OF STEEL
TOT	TOTAL
TOW	TOP OF WALL
TR	TRANSITION
TS	TERMINATION STRIP
TV	TELEVISION
TYP	TYPICAL

"U"

U/S	UNDERSIDE
UC	UNDERCUT
UL	UNDERWRITERS' LABORATORIES
UNF	UNFINISHED
UNO	UNLESS NOTED OTHERWISE

"V"

VAR	VARIES /VARIABLE
VB	VAPOR BARRIER, VINYL BASE
VC	VINYL COVE
VCT	VINYL COMPOSITION TILE
VD	VISUAL DISPLAY
VERT	VERTICAL
VEST	VESTIBULE
VG	VISION GLASS
VIF	VERIFY IN FIELD
VIN	VINYL
VWC	VINYL WALL COVERING
VT	VINYL TILE

"W"

W	WEST, WIDE (WIDTH), WINDOW TREATMENT
W/	WITH
W/O	WITHOUT
WB	WALL BASE
WDB	WOOD WALL BASE
WC	WALL COVERING
WD	WOOD
WF	WATER FOUNTAIN
WLD	WELD(ED)
WNCT	WAINSCOTTING
WP	WATER PROOFED(ING)
WPS	WALL PROTECTION SYSTEM
WT	WALL TILE, WEIGHT
WWF	WELDED WIRE FABRIC

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PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	M. KINDELIN
CHECKED BY	JW
DESIGNED BY	JW
DRAWN BY	JW, JC, RS, HN

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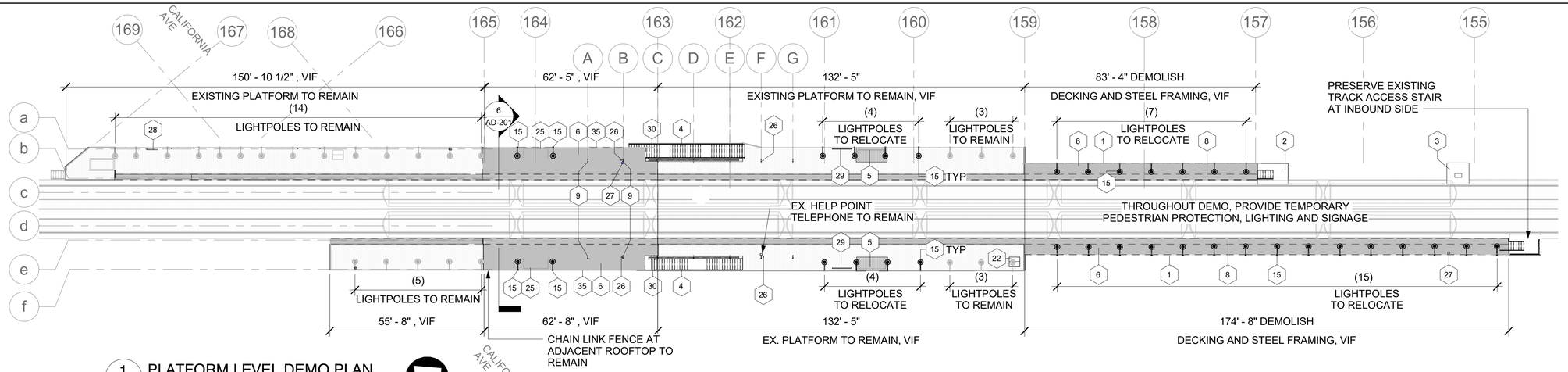
ABBREVIATIONS

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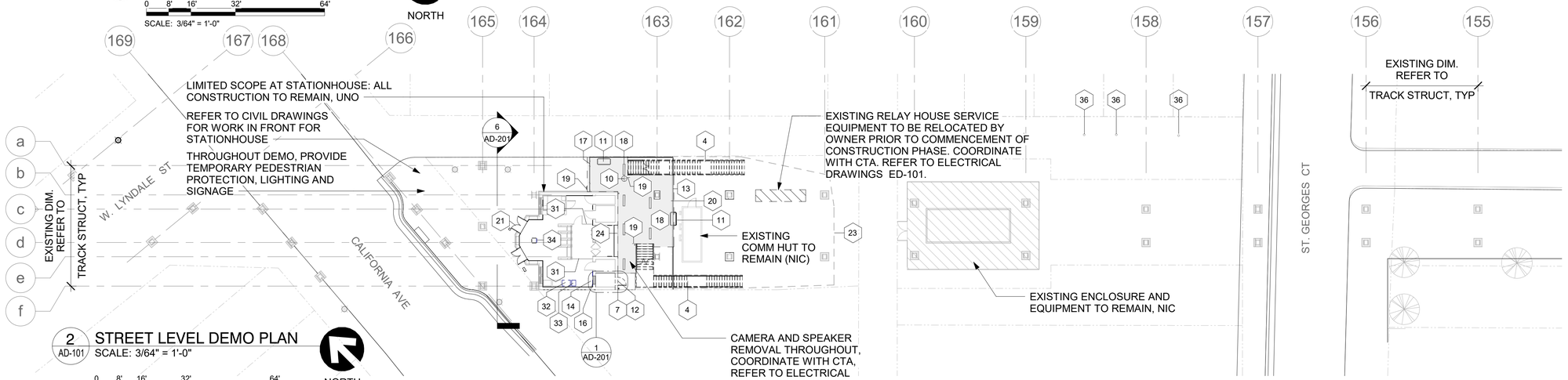
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1 AD-101 PLATFORM LEVEL DEMO PLAN



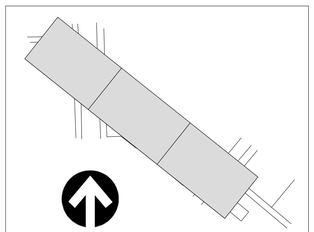
2 AD-101 STREET LEVEL DEMO PLAN

KEYNOTES-DEMO

Number	Description
1	REMOVE PLATFORM RAILINGS
2	REMOVE TRACK ACCESS STAIR, PLATFORM AND RAILING
3	REMOVE IMPEDANCE BOND PLATFORM STRUCTURE, RAILING AND DECKING. RELOCATION OF EQUIPMENT BY CTA FORCES, NIC.
4	REMOVE STAIR STRUCTURE: FOUNDATION, STEEL FRAMING, CANOPY, DOWNSPOUTS, GUTTERS, LIGHT FIXTURES, CANE RAILS, AND CONDUIT TO NEAREST J-BOX.
5	REMOVE AND SALVAGE PLATFORM WINDBREAK, ATTACHED DMS SIGNS AND ASSOCIATED CONDUIT TO NEAREST JBOX. RETURN ITEMS TO CTA WEST SHOPS. SALVAGE BT-2/BT-3 BRAILLE SIGNAGE AND STORE FOR RE-USE.
6	REMOVE PLATFORM FRAMING AND DECKING
7	REMOVE DOWNSPOUT, ASSOCIATED CLEAN OUTS AND PORTION OF GUTTER REQUIRED FOR INSTALLATION OF NEW DOWNSPOUT
8	REMOVE DETECTABLE WARNING TILES AT FULL LENGTH OF EACH PLATFORM
9	REMOVE AND SALVAGE CANOPY COLUMN. RETURN TO CTA WEST SHOPS.
10	REMOVE MANHOLE STRUCTURE, REFER TO CIVIL DRAWINGS
11	REMOVE FLOOR OR CEILING MOUNTED DAS SIGN ASSEMBLY AND ASSOCIATED POWER/CONDUIT/FLOOR JBOX. STORE FOR RELOCATION/RE-INSTALLATION.
12	REMOVE DOOR AND FRAME. PARTIALLY REMOVE WALL/LOWER STATIONHOUSE ROOF AS NEEDED FOR MICROPILE INSTALLATION.
13	REMOVE ORNAMENTAL STEEL FENCE, POST FOUNDATIONS, SWING GATE AND ATTACHED SIGNAGE
14	REMOVE ONE STAINLESS STEEL INFORMATION PANEL AND SIGNS/FRAMES TO ACCOMMODATE NEW DOOR. SALVAGE FOR REINSTALLATION.
15	REMOVE AND SALVAGE LIGHTPOLE FOR RELOCATION
16	REMOVE MASONRY, GYPSUM WALL, CONCRETE SLAB, FINISH FLOOR AND ASSOCIATED ELECTRICAL/PLUMBING TO ACCOMMODATE NEW DOOR AND ELECTRICAL
17	REMOVE FULL HEIGHT ORNAMENTAL STEEL FENCING- APPROX 45 L.F.

KEYNOTES-DEMO

Number	Description
18	REMOVE DRIP PAN STRUCTURE ABOVE OPEN PLAZA (APPROX 350 SF). REMOVE AND SALVAGE STAINLESS STEEL LIGHT FIXTURES AND RETURN TO CTA WEST SHOPS
19	REMOVE AND SALVAGE FLOOR MOUNTED PEDESTAL SIGN ASSEMBLY AND RETURN TO CTA WEST SHOPS, TYP
20	REMOVE CONCRETE SLAB AND ASSOCIATED REINFORCEMENT IN STATION PLAZA. REFER TO CIVIL
21	REMOVE AND SALVAGE ADA PEDESTAL AND ASSOCIATED POWER/CONDUIT TO NEAREST JUNCTION BOX. REMOVE ALL DOOR HARDWARE AND RETURN TO CTA WEST SHOPS. REFER TO DOOR SCHEDULE. DOORS TO REMAIN.
22	REMOVE AND SALVAGE PLATFORM SAND BOX AND RETURN TO CTA WEST SHOPS.
23	REMOVE CHAINLINK FENCE, ASSOCIATED GATES AND POST FOUNDATIONS (APPROX 150 LF)
24	REMOVE CONCRETE STEP, TREAD COVERS AND GRANITE PAVER TO NEAREST JOINT
25	REMOVE AND SALVAGE NORTH PLATFORM WINDBREAKS, ATTACHED DMS SIGNS AND ASSOCIATED CONDUIT TO NEAREST JBOX. STORE FOR REINSTALLATION.
26	REMOVE CANOPY DOWNSPOUTS AND ASSOCIATED CLIPS AND ACCESSORIES FROM CANOPY TO GRADE
27	REMOVE AND SALVAGE HELP POINT TELEPHONE ASSEMBLY AND STORE FOR REINSTALLATION
28	REMOVE AND SALVAGE GAP FILLER CABINET AND RETURN TO CTA WEST SHOPS
29	REMOVE TRANSIT PANEL AND SALVAGE FOR CLEANING AND RELOCATION, BOTH PLATFORMS
30	REMOVE (PARTIALLY) ANGLE IRON TRUSS AT STAIR OPENING NORTH OF GRIDLINE C. REFER TO TRACK STRUCTURES DRAWINGS
31	REMOVE STAINLESS STEEL BARRIER AT FARE ARRAY
32	REMOVE TICKET VENDING MACHINE, AND ASSOCIATED CONDUIT/WIRE TO NEAREST JBOX. RETURN TVM TO CTA WEST SHOPS. REMOVE J-BOXES AND OTHER ELECTRICAL IN WALL FOR NEW SIGNAGE.
33	REMOVE ATM AND SALVAGE FOR REINSTALLATION.
34	REMOVE ARTS IN TRANSIT PLAQUE AND SALVAGE FOR REINSTALLATION. ALL OTHER SIGNAGE AT COLUMN TO REMAIN.
35	REMOVE AND SALVAGE RAILING. STORE FOR REINSTALLATION.
36	REMOVE BOLLARD



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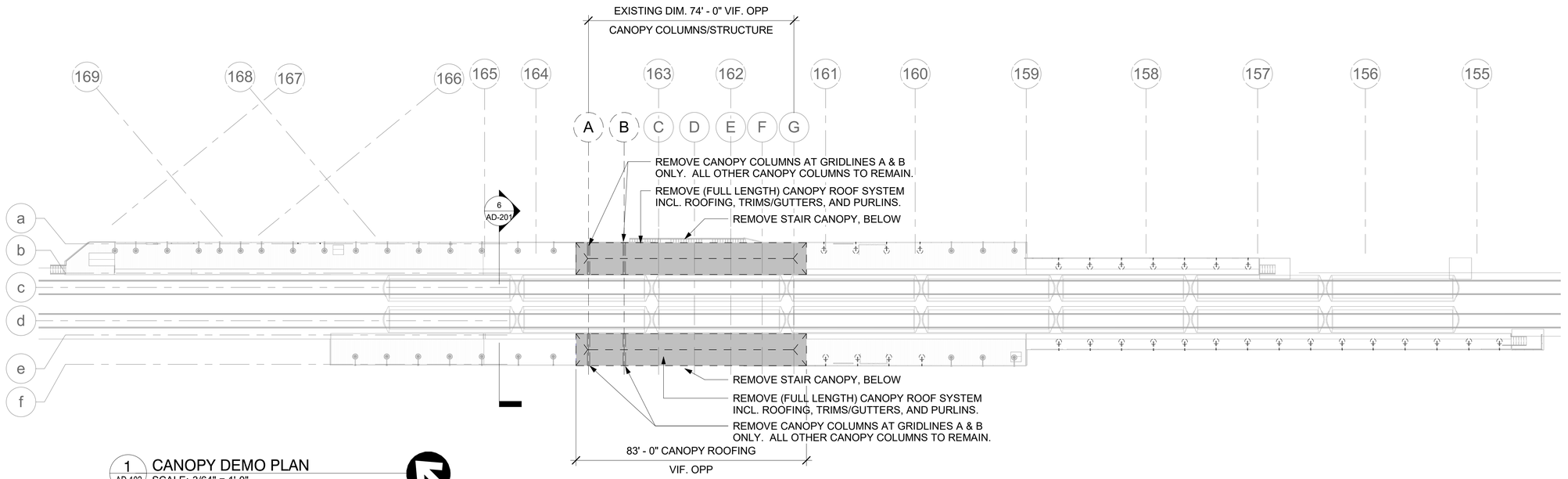
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STREET LEVEL AND PLATFORM DEMO PLAN

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VOLUME: 1 OF 1

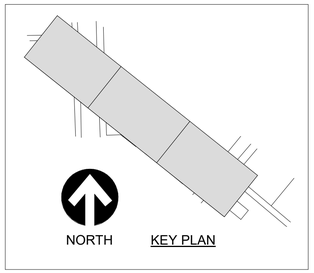
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1 AD-102 CANOPY DEMO PLAN
SCALE: 3/64" = 1'-0"

0 8' 16' 32' 64'
SCALE: 3/64" = 1'-0"

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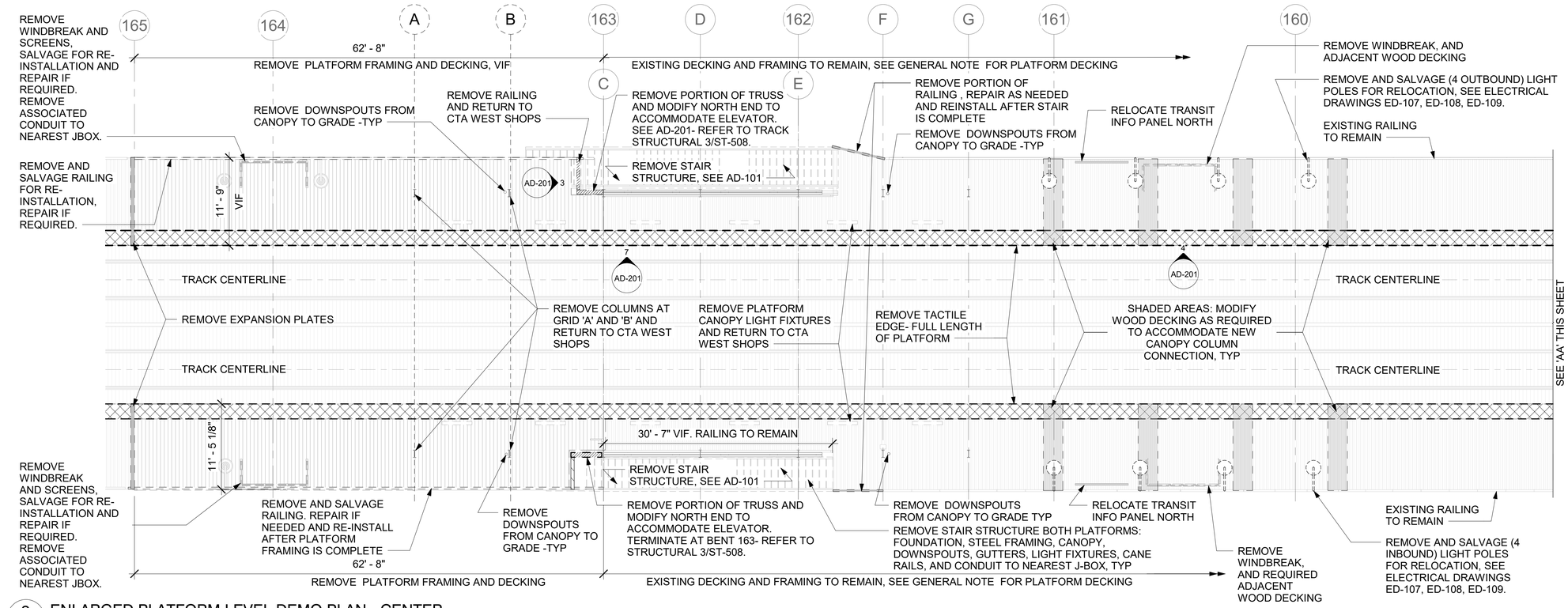
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CANOPY DEMO PLAN

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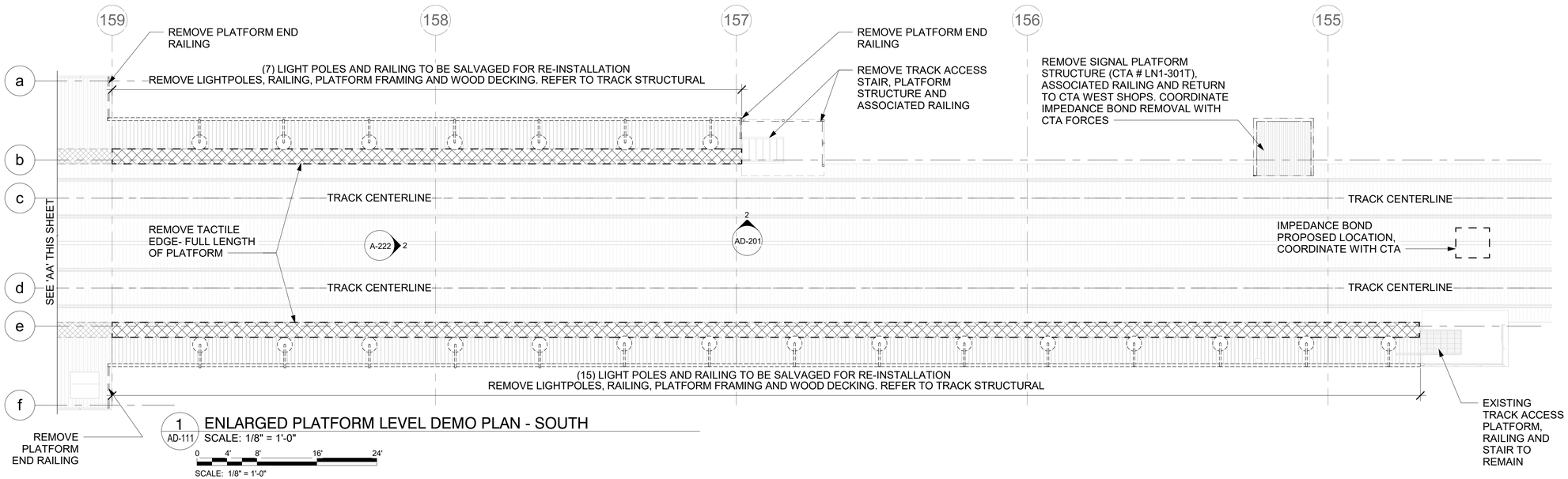
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2 AD-111 ENLARGED PLATFORM LEVEL DEMO PLAN - CENTER
SCALE: 1/8" = 1'-0"

0 4' 8' 16' 24'
SCALE: 1/8" = 1'-0"



1 AD-111 ENLARGED PLATFORM LEVEL DEMO PLAN - SOUTH
SCALE: 1/8" = 1'-0"

0 4' 8' 16' 24'
SCALE: 1/8" = 1'-0"

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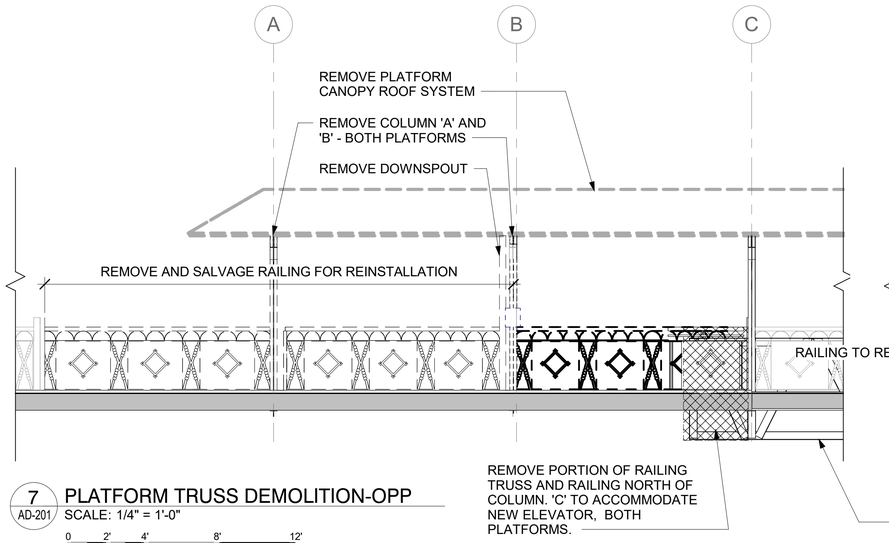
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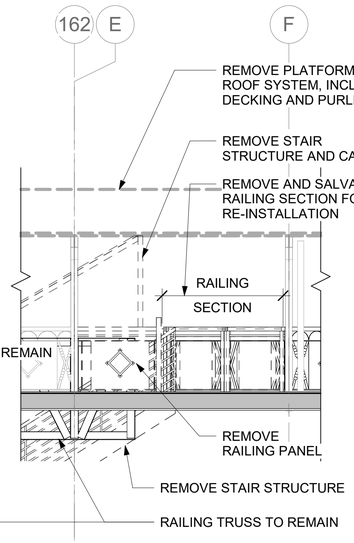
PLATFORM DEMOLITION PLANS

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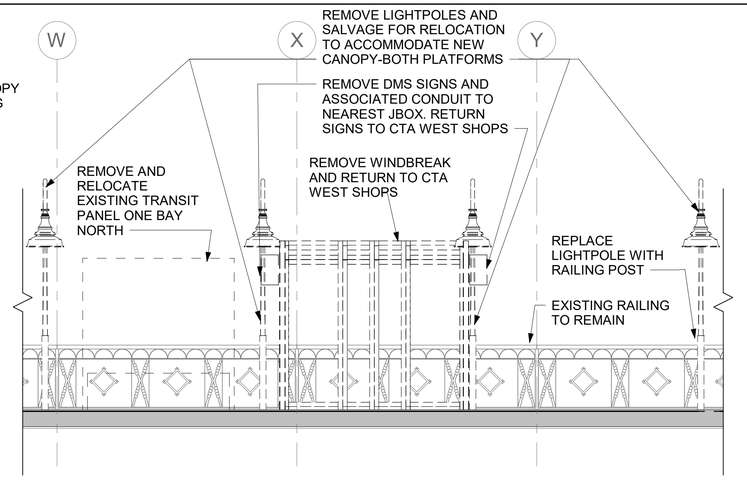
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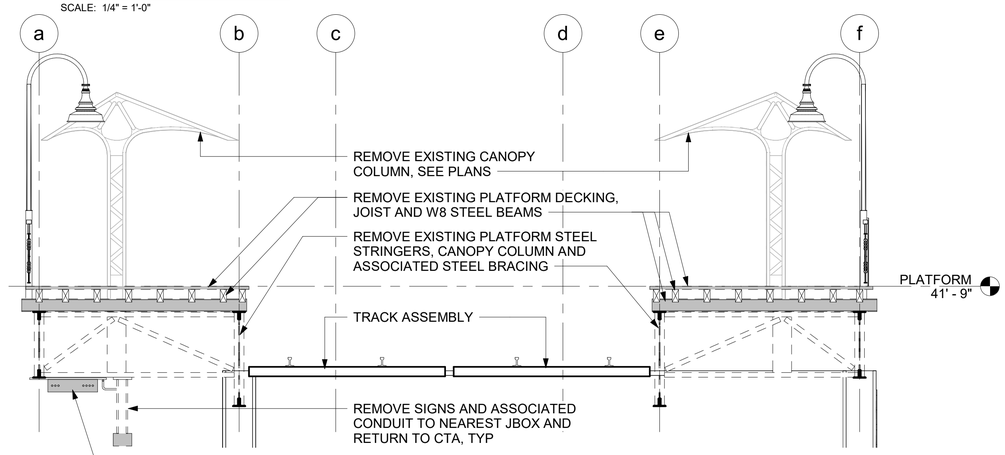




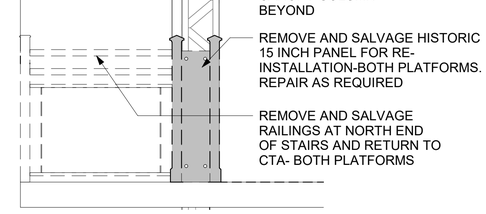
7 AD-201 PLATFORM TRUSS DEMOLITION-OPP
SCALE: 1/4" = 1'-0"
0 2' 4' 8' 12'
SCALE: 1/4" = 1'-0"



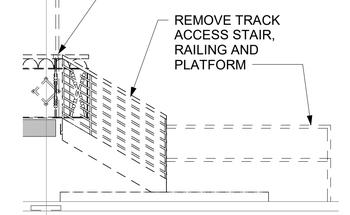
4 AD-201 DEMO ELEVATION WINDBREAK
SCALE: 1/4" = 1'-0"
0 2' 4' 8' 12'
SCALE: 1/4" = 1'-0"



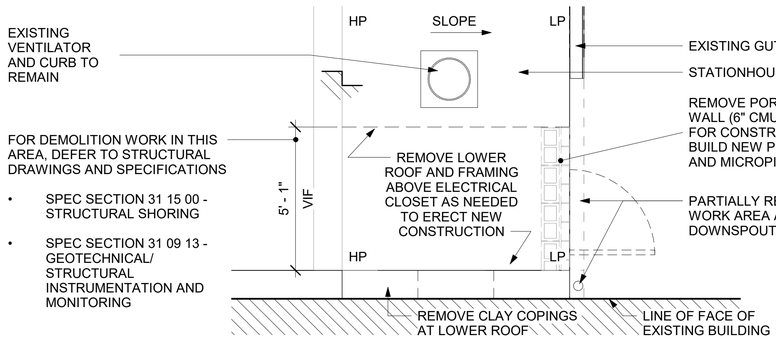
6 AD-201 TYPICAL PLATFORM SECTION-DEMO
SCALE: 1/4" = 1'-0"
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SCALE: 1/4" = 1'-0"



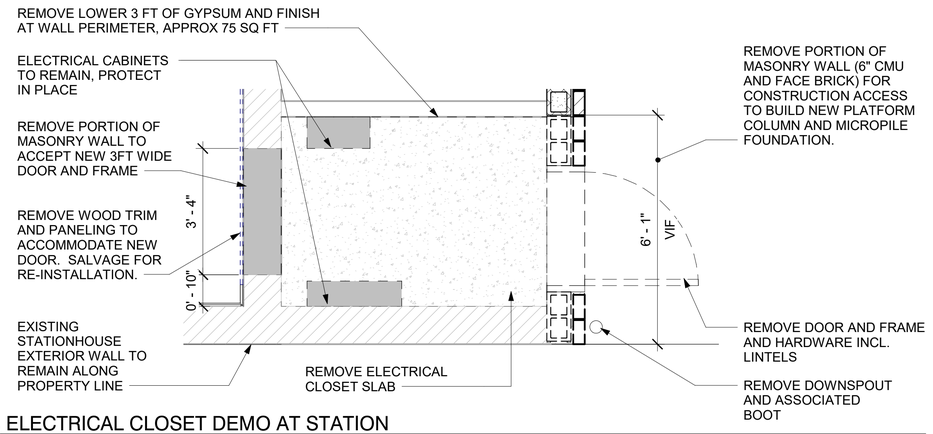
3 AD-201 DEMO-NORTH RAILING-BOTH PLATFORMS
SCALE: 1/2" = 1'-0"
0 1' 2' 4' 6'
SCALE: 1/2" = 1'-0"



2 AD-201 DEMO ELEVATION-OUTBOUND SOUTH
SCALE: 1/4" = 1'-0"
0 2' 4' 8' 12'
SCALE: 1/4" = 1'-0"



5 AD-201 ROOF DEMO AT STATION
SCALE: 3/8" = 1'-0"
0 2' 4' 6' 8'
SCALE: 3/8" = 1'-0"



1 AD-201 ELECTRICAL CLOSET DEMO AT STATION
SCALE: 1/2" = 1'-0"
0 1' 2' 4' 6'
SCALE: 1/2" = 1'-0"

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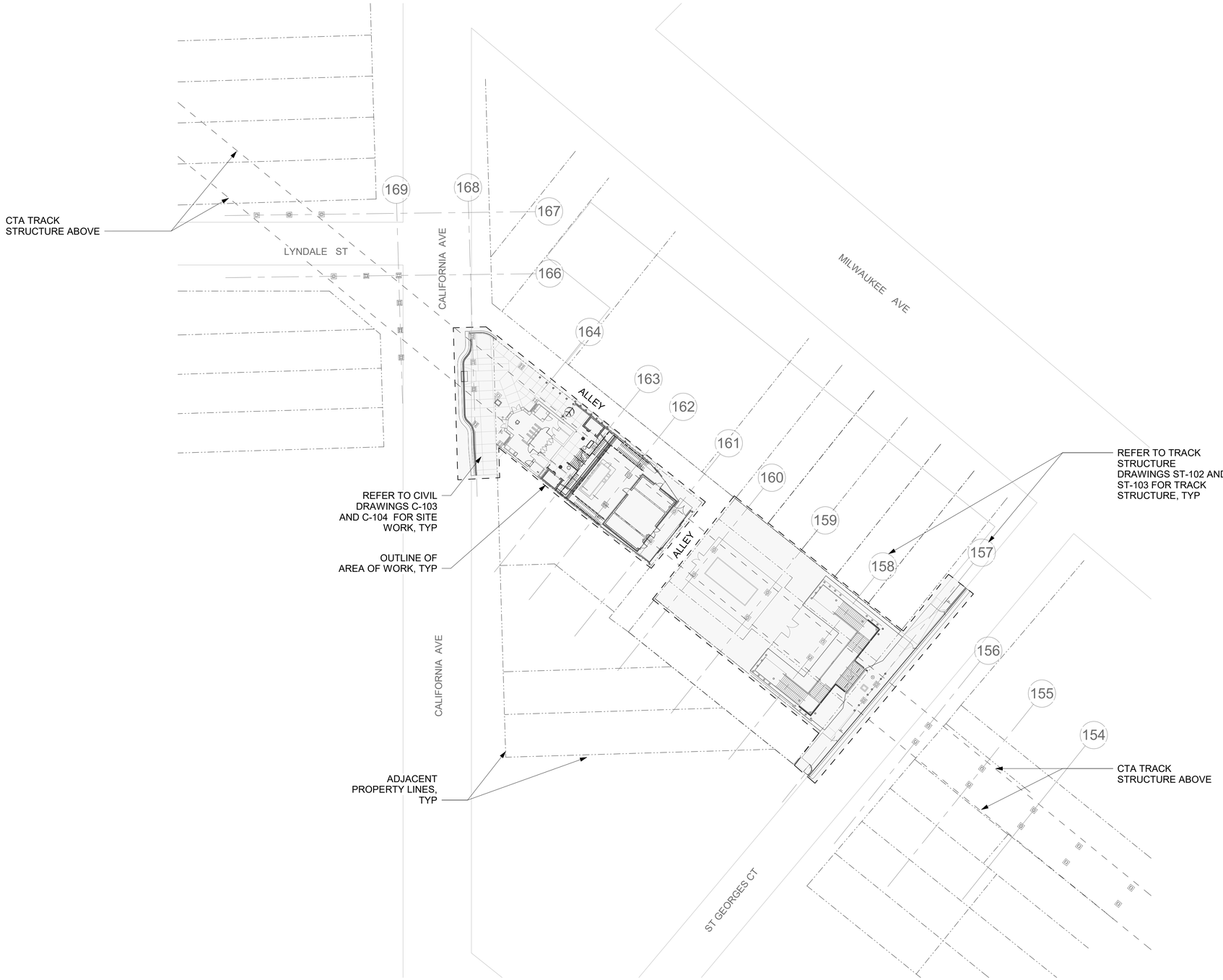
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DEMOLITION VIEWS

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1 / A-101 STREET LEVEL PLAN SITE PLAN
SCALE: 1/32" = 1'-0"

0 16' 32' 48' 96'
SCALE: 1/32" = 1'-0"

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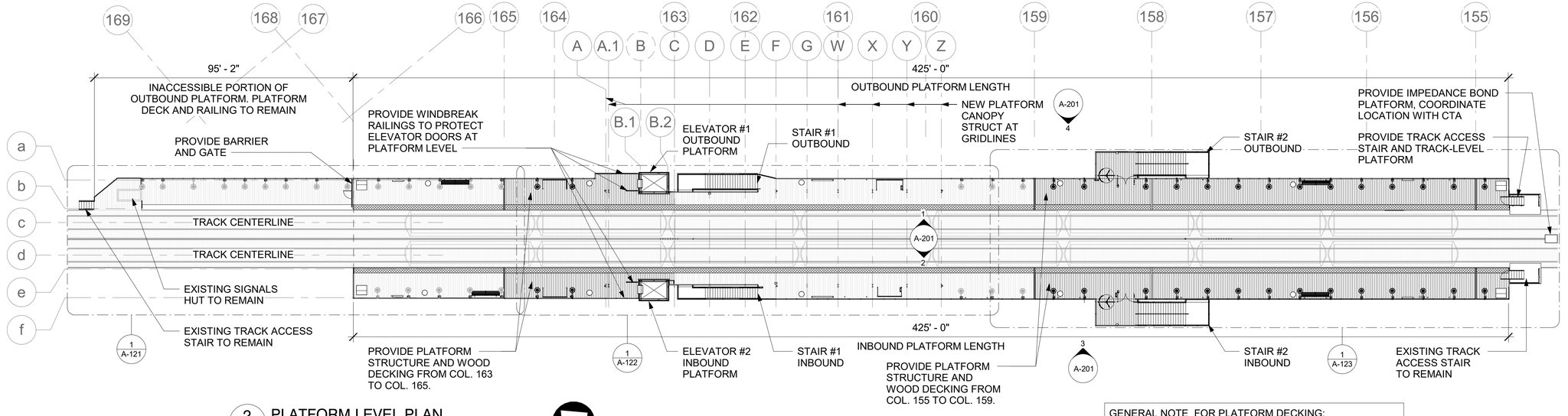
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SITE PLAN

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2 A-102 PLATFORM LEVEL PLAN
SCALE: 3/64" = 1'-0"

0 8' 16' 32' 64'

SCALE: 3/64" = 1'-0"

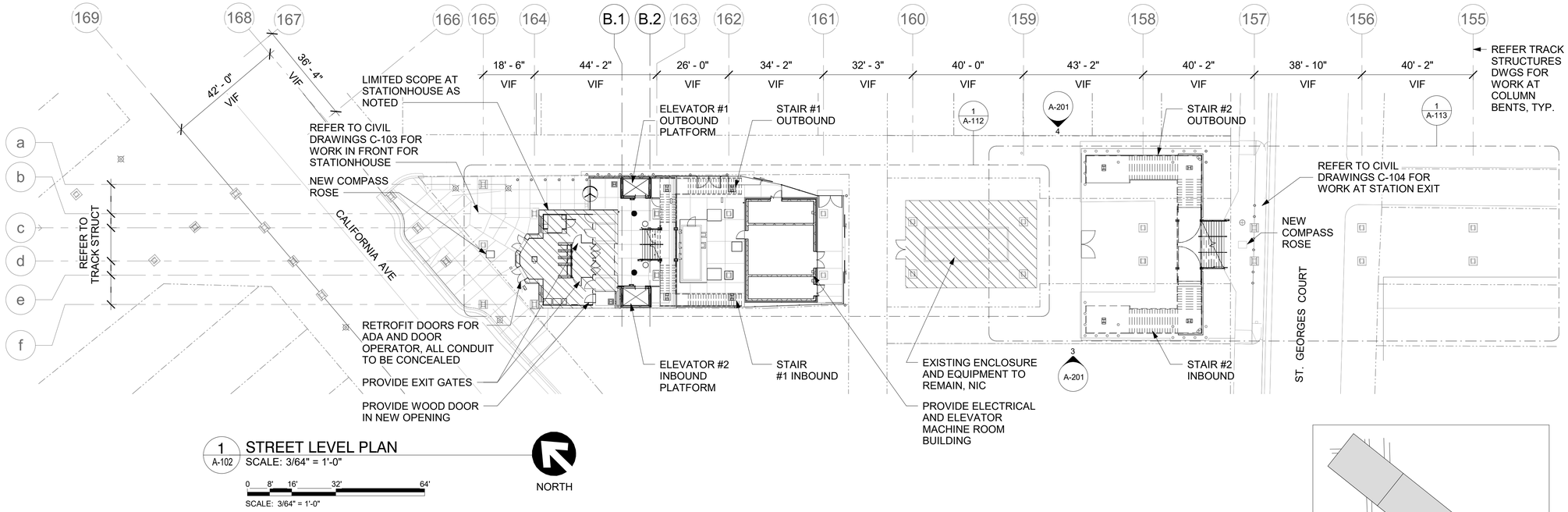
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CONTRACTOR TO COORDINATE ADVERTISING FRAMES AND SIGN FACE REMOVAL AND REINSTALLATION.

GENERAL NOTE FOR PLATFORM DECKING:

IN LOCATION INDICATED FOR EXISTING WOOD DECKING TO REMAIN (BOTH PLATFORMS), SCOPE INCLUDES REMOVAL AND REPLACEMENT OF DAMAGED PLATFORM DECKING (20% REPLACEMENT AS REQUIRED), INCLUDING DECKING MODIFICATIONS REQUIRED FOR EIGHT NEW CANOPY COLUMNS AT GRID LINES W, X, Y, AND Z.

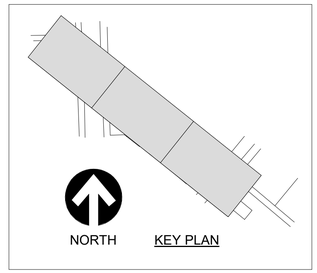


1 A-102 STREET LEVEL PLAN
SCALE: 3/64" = 1'-0"

0 8' 16' 32' 64'

SCALE: 3/64" = 1'-0"

NORTH



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ALL STATIONS ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	M. KINDELIN
CHECKED BY	JW
DESIGNED BY	JW
DRAWN BY	JW, JC, RS, HN

MARK	DATE	DESCRIPTION
0	12/30/2024	ISSUE FOR BID

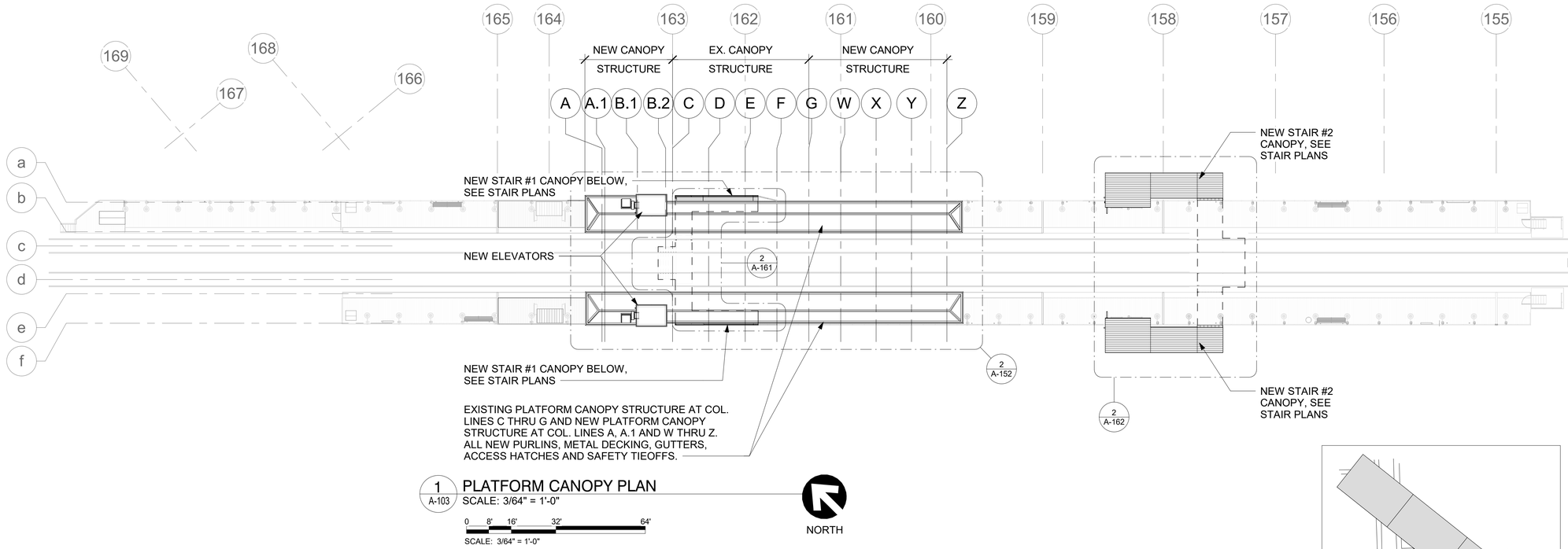
OVERALL STREET LEVEL AND PLATFORM LEVEL PLANS

LSCAL | A-102

VOLUME: 1 OF 1

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1 A-103 PLATFORM CANOPY PLAN

SCALE: 3/64" = 1'-0"

0 8' 16' 32' 64'

SCALE: 3/64" = 1'-0"

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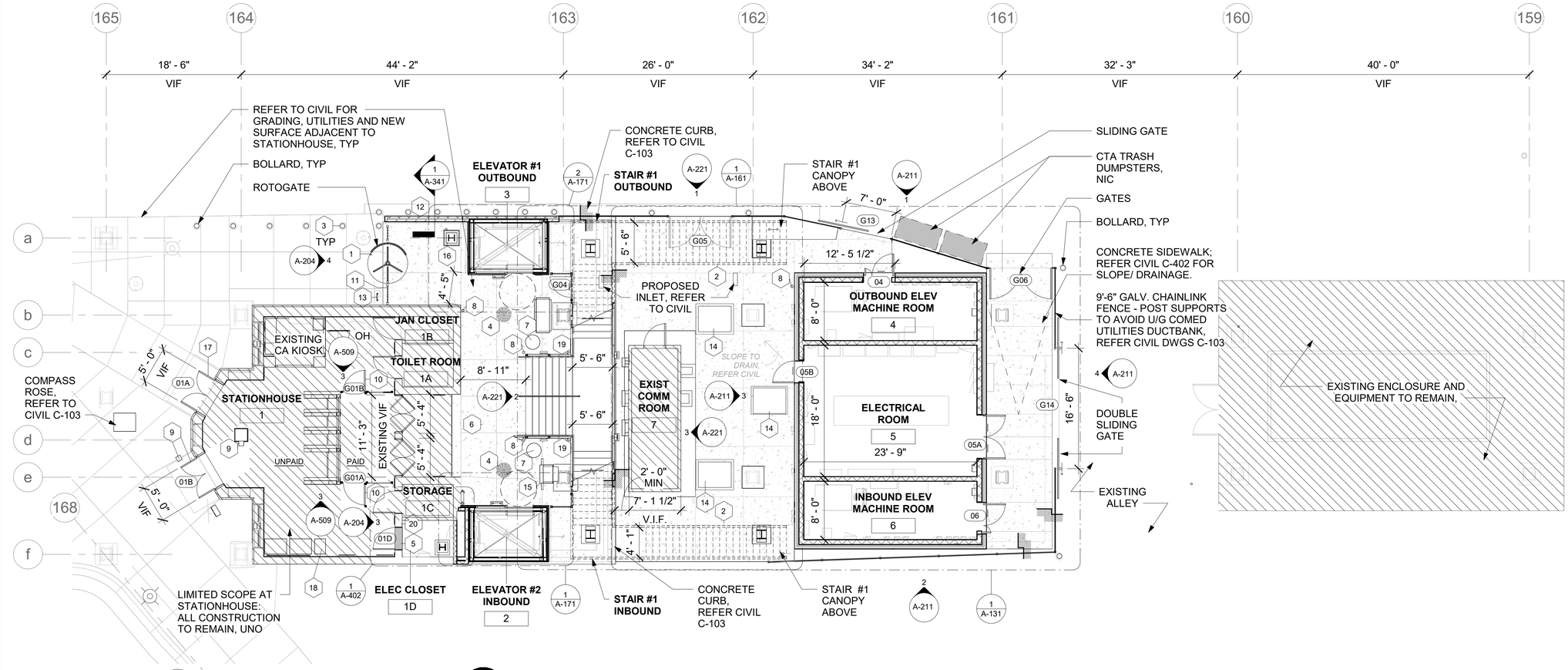
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OVERALL PLATFORM CANOPY PLAN

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VOLUME: 1 OF 1

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1 A-112 STREET LEVEL PLAN - CENTER
SCALE: 1/8" = 1'-0"

0 4' 8' 16' 24'
SCALE: 1/8" = 1'-0"

NORTH

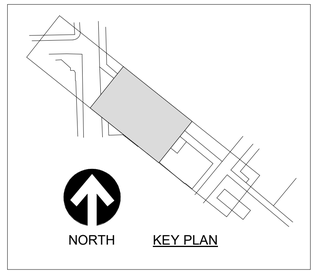
KEYNOTES

Number	Description
1	NEW STAINLESS STEEL EXIT ROTOGATE
2	NEW GALVANIZED AND PAINTED BIFURCATED ALUMINUM TREAD STAIR WITH RAILING (INCLUDING PERF METAL COVERED GLAZING FROM TOP OF RAILING TO BOTTOM OF CANOPY), AND OVERHEAD CANOPY.
3	NEW ASTM VEHICLE IMPACT RATED GALVANIZED AND PAINTED BOLLARDS WITH SLOPED TOP
4	PROVIDE CATCH BASIN. SLAB TO SLOPE AWAY FROM STATIONHOUSE AND ELEVATORS. REFER TO CIVIL FOR LOCATIONS AND DETAILS.
5	NEW 36" WIDE WOOD DOOR, FRAME, MILLWORK AND HARDWARE TO MATCH EXISTING HISTORIC DESIGN
6	NEW CONCRETE SLAB, SLOPE AWAY FROM STATIONHOUSE AND ELEVATORS. REFER TO CIVIL DRAWINGS.
7	NEW FLOOR MOUNTED TRASH RECEPTACLE PER CTA SPEC, SECURE TO SLAB OR PLATFORM STRUCTURE WITH STAINLESS STEEL BOLTS
8	NEW GALVANIZED AND PREFINISHED DOWNSPOUT AND CAST IRON BOOT (WITH CLEANOUT) TO ACCOMMODATE NEW GRADE ELEVATION.
9	RETROFIT EXISTING FRP STATIONHOUSE ENTRANCE DOORS FOR ADA OPERATIONS. NEW STAINLESS STEEL PUSH BUTTON PYLON AND UPGRADED OPERATOR HARDWARE. CONCEAL ALL CONDUIT UNDERGROUND OR WITHIN DOOR FRAME
10	NEW STAINLESS STEEL FULL HEIGHT BARRIER AND GATE TO MATCH EXISTING DESIGN/HEIGHT
11	NEW 9'-6" HEIGHT FENCE, GALVANIZED AND PAINTED STEEL VERTICAL 1"X1" STL BAR FENCING WITH MAX 3 3/4" SPACING
12	NEW 9'-6" HIGH MASONRY WALL
13	NEW STAINLESS STEEL PEDESTAL TO ACCEPT SIGNAGE
14	NEW TRANSFORMERS ON CONCRETE PADS. REFER TO ELECTRICAL DRAWINGS
15	NEW DMS SIGN (SUSPENDED OR ATTACHED TO BENT STRUCTURE) DEFER TO CTA SIGNAGE DEPT
16	NEW GALVANIZED AND PAINTED STEEL COLUMN WITH FOUNDATION TO SUPPORT PLATFORM STRINGER ABOVE. REFER TO BUILDING STRUCTURE AND TRACK STRUCTURE DRAWINGS.
17	REFINISH EXISTING DOOR AND INSTALL NEW UNPOWERED HARDWARE. REFER DOOR SCHEDULE.
18	REINSTALL ATM AS SHOWN.
19	NEW 8'-0" HEIGHT GALVANIZED AND PAINTED FENCE, VERTICAL 1"X1" STL BAR FENCING WITH MAX 3 3/4" SPACING AND ACCESS GATE - FOLLOW UNDERSIDE OF STAIR STRINGERS FROM 1'-0" TO 8'-0"
20	NEW WOOD TRIM AT DOOR OPENING TO MATCH HISTORIC DESIGN

GENERAL NOTES:
ALL EXISTING UTILITIES/TOP OF RIMS MUST BE ADJUSTED TO ACCOMMODATE NEW FINISHED GRADE ELEVATIONS

HATCHED AREA IN EXISTING HISTORIC STATIONHOUSE IS NOT IN CONTRACT. SCOPE IN STATIONHOUSE IS LIMITED TO ELECTRICAL CLOSET 1D, EXIT GATES AT FARE ARRAY, ADA DOORS AND SIGNAGE.

PROTECT ALL EXISTING ITEMS TO REMAIN. ANY DAMAGE CAUSED DURING THE COURSE OF THE PROJECT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIX.



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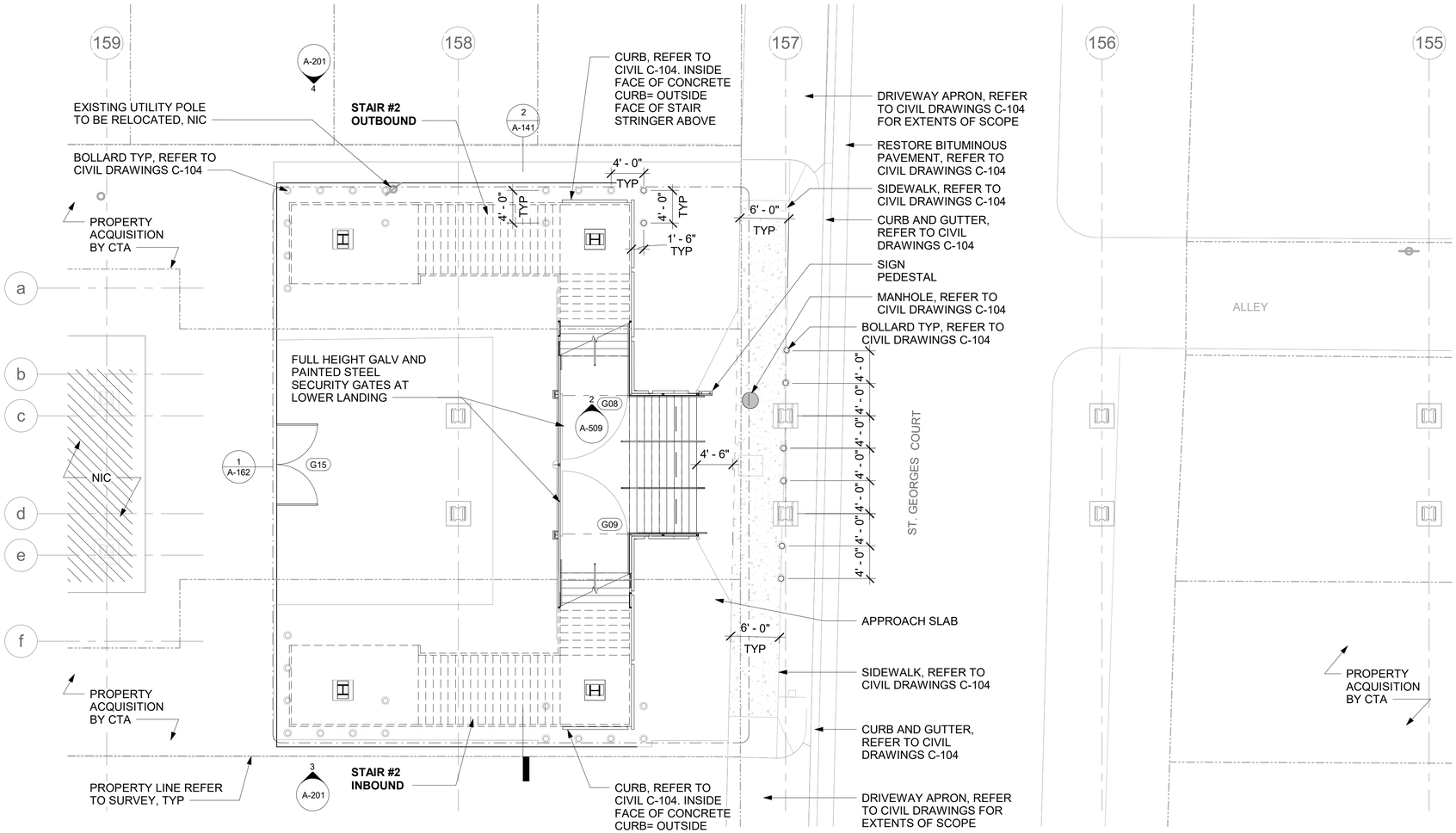
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STREET LEVEL PLAN CENTER

LSCAL A-112
VOLUME: 1 OF 1

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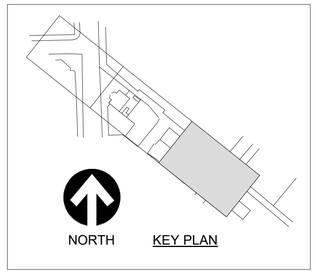


1 A-113 STREET LEVEL PLAN - SOUTH
SCALE: 1/8" = 1'-0"

0 4' 8' 16' 24'

SCALE: 1/8" = 1'-0"

NORTH



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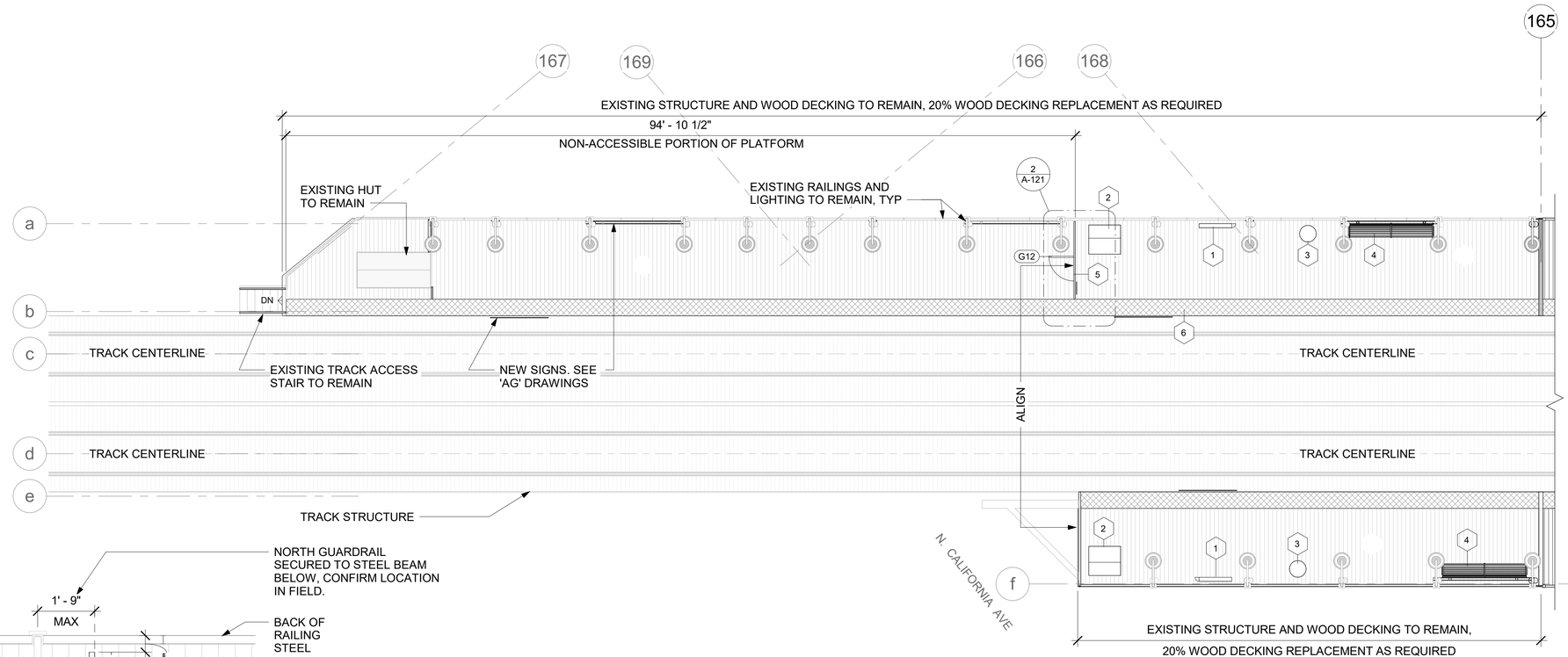
STREET LEVEL PLAN SOUTH

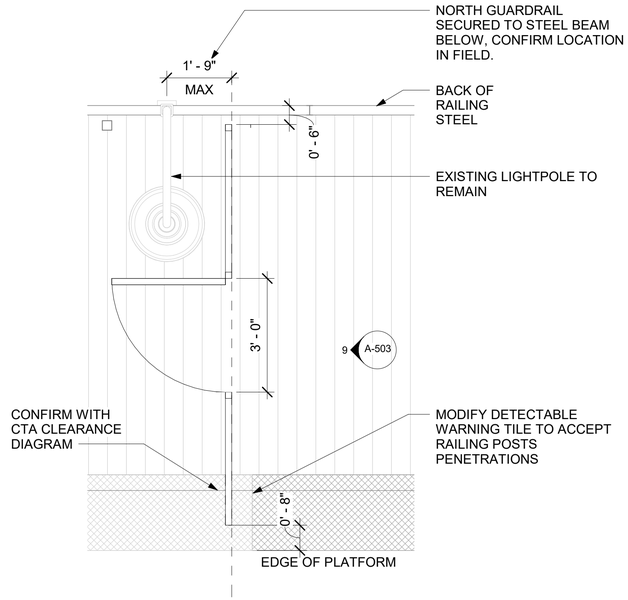
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2 A-121 PLATFORM END RAILING AND GATE G12
SCALE: 1/2" = 1'-0"

0 1' 2' 4' 6'
SCALE: 1/2" = 1'-0"

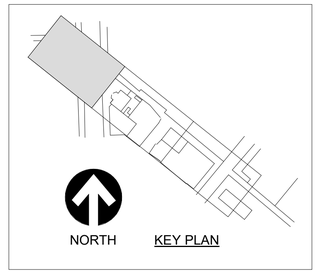
1 A-121 PLATFORM LEVEL PLAN - NORTH
SCALE: 1/8" = 1'-0"

0 4' 8' 16' 24'
SCALE: 1/8" = 1'-0"

NORTH

KEYNOTES

Number	Description
1	NEW GAP FILLER WITH STAINLESS STEEL ENCLOSURE PER CTA SPEC, SECURE TO PLATFORM STRUCTURE WITH STAINLESS STEEL BOLTS
2	NEW SANDBOX PER CTA SPEC, SECURE TO PLATFORM STRUCTURE WITH STAINLESS STEEL BOLTS
3	NEW FLOOR MOUNTED TRASH RECEPTACLE PER CTA SPEC, SECURE TO SLAB OR PLATFORM STRUCTURE WITH STAINLESS STEEL BOLTS
4	NEW STAINLESS STEEL BENCH PER CTA SPEC, SECURE TO PLATFORM STRUCTURE WITH STAINLESS STEEL BOLTS
5	NEW GALVANIZED AND PAINTED RAILING WITH GATE TO MATCH HISTORIC DESIGN
6	NEW ADA-COMPLIANT DETECTABLE WARNING TILE ALONG FULL LENGTH OF EACH PLATFORM



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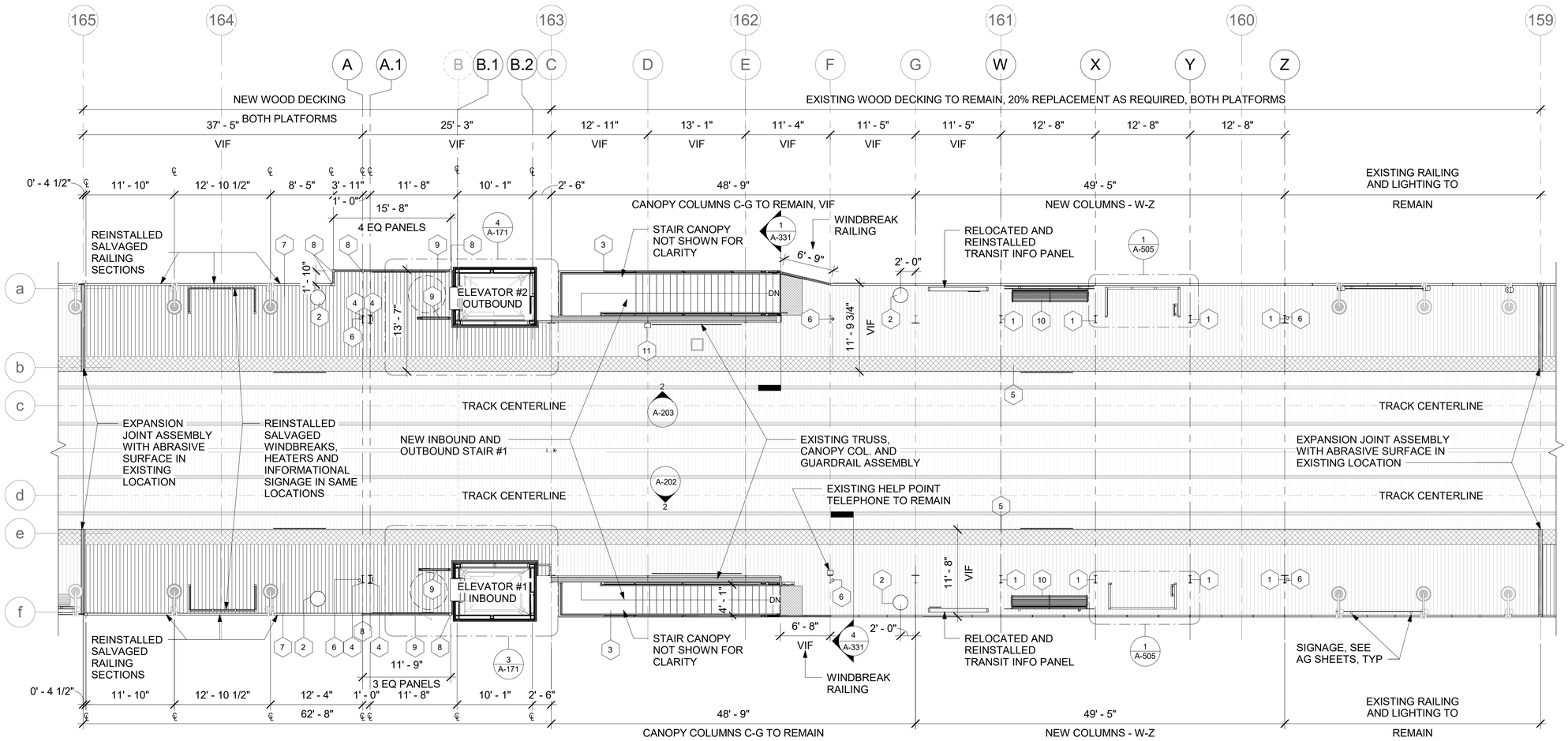
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PLATFORM LEVEL PLAN NORTH

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VOLUME: 1 OF 1

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1 A-122 PLATFORM LEVEL PLAN - CENTER
SCALE: 1/8" = 1'-0"

0 4' 8' 16' 24'
SCALE: 1/8" = 1'-0"

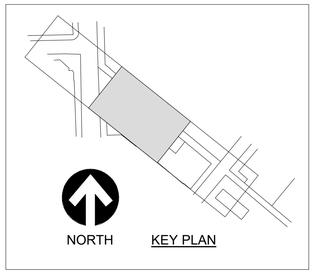
NORTH

KEYNOTES

Number	Description
1	NEW GALVANIZED AND PAINTED STEEL CANOPY COLUMN-MATCH EXISTING HISTORIC DESIGN. REFER TO BUILDING STRUCTURES DRAWINGS. PROVIDE NEW WOOD DECKING AND JOIST REINFORCEMENT AS REQUIRED TO MATCH EXISTING AND ACCOMMODATE NEW CANOPY COLUMNS
2	NEW FLOOR MOUNTED TRASH RECEPTACLE PER CTA SPEC, SECURE TO SLAB OR PLATFORM STRUCTURE WITH STAINLESS STEEL BOLTS
3	NEW GALVANIZED AND PAINTED BIFURCATED ALUMINUM TREAD STAIR WITH RAILING (INCLUDING PERF METAL COVERED GLAZING FROM TOP OF RAILING TO BOTTOM OF CANOPY), AND OVERHEAD CANOPY.
4	NEW GALVANIZED AND PAINTED STEEL CANOPY COLUMN-MODIFIED TO ACCOMMODATE NEW ROOF SLOPE. REFER TO BUILDING STRUCTURES DRAWINGS.
5	NEW ADA-COMPLIANT DETECTABLE WARNING TILE ALONG FULL LENGTH OF EACH PLATFORM
6	NEW DOWNSPOUT ROUTED TO UNDERSIDE OF PLATFORM, REFER PLUMBING AND CIVIL DRAWINGS
7	NEW PLATFORM EXTENSION, STEEL FRAMING AND WOOD DECKING, REFER TRACK STRUCTURES DRAWINGS
8	NEW RAILING POST WITH BASEPLATE TO MATCH EXISTING. REFER TO TRACK STRUCTURES DRAWINGS FOR STEEL FRAMING AT ALL NEW RAILING POSTS
9	NEW ELEVATOR WINDBREAK RAILING AS SHOWN. SIMILAR TO TYPICAL RAILING WITH GLAZING AND PERF METAL PANEL IN GALVANIZED PAINTED FRAME ABOVE.
10	NEW STAINLESS STEEL BENCH PER CTA SPEC, SECURE TO PLATFORM STRUCTURE WITH STAINLESS STEEL BOLTS
11	RE-INSTALL HELP POINT TELEPHONE ASSEMBLY AND RE-CONNECT. FINAL LOCATION TO BE COORDINATED WITH CTA

ELEVATOR ISOLATION NOTE:

ALL METAL COMPONENTS ASSOCIATED WITH THE ELEVATOR SYSTEM AND ENCLOSURE SHALL BE ISOLATED FROM TRACK AND PLATFORM STRUCTURE WITH 1/2" NEOPRENE STRIPS TO PREVENT AGAINST GALVANIC CORROSION CAUSED BY DIFFERENTIAL POTENTIAL OF ELEVATOR, TRACK AND PLATFORM STRUCTURE.



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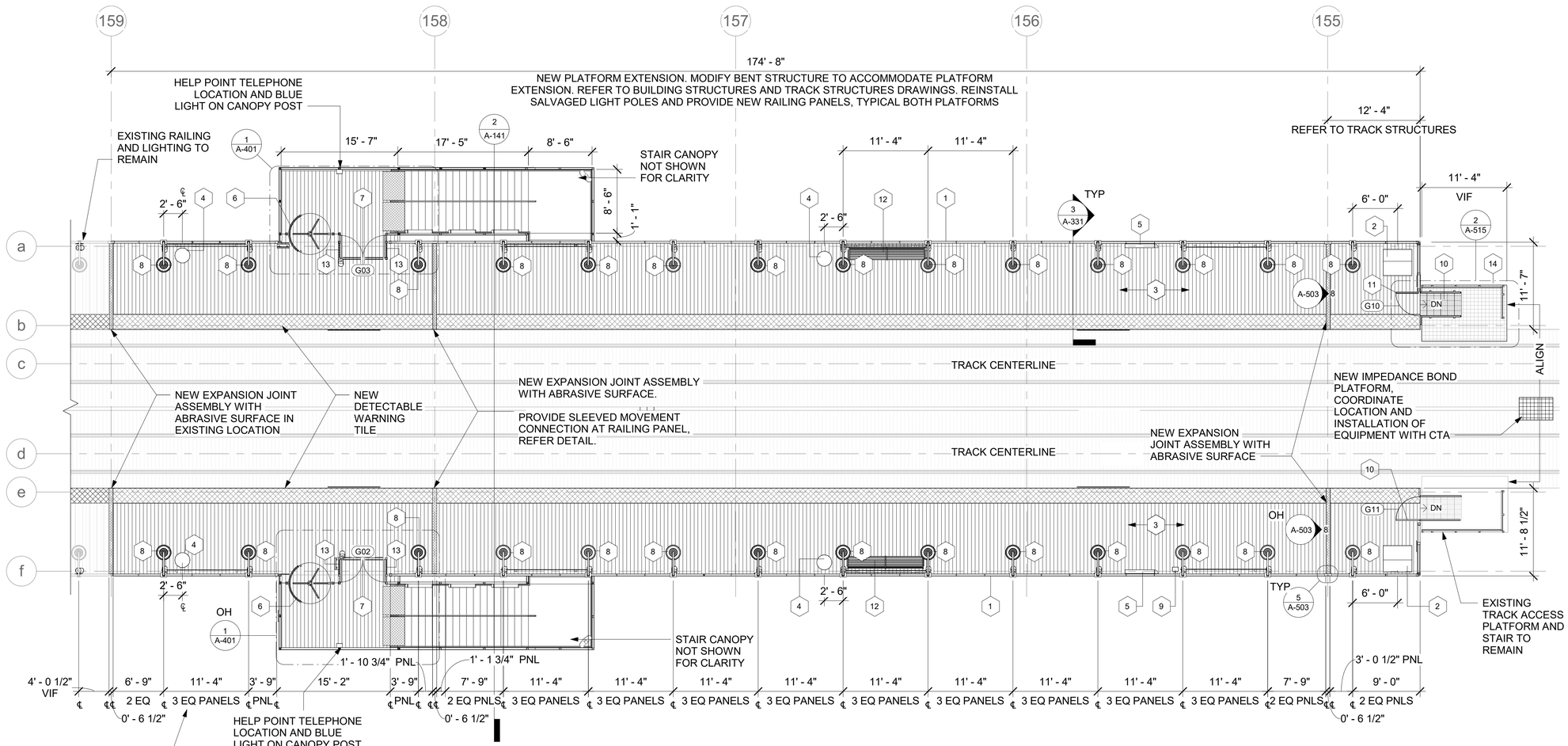
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PLATFORM LEVEL PLAN CENTER

LSCAL | A-122
VOLUME: 1 OF 1

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1 A-123 PLATFORM LEVEL PLAN - SOUTH

SCALE: 1/8" = 1'-0"

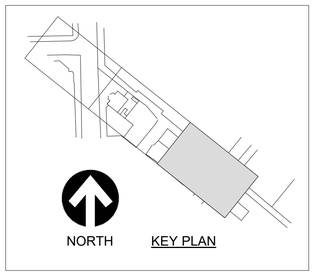
0 4' 8' 16' 24'

SCALE: 1/8" = 1'-0"

NORTH

KEYNOTES

Number	Description
1	NEW GAP FILLER WITH STAINLESS STEEL ENCLOSURE PER CTA SPEC, SECURE TO PLATFORM STRUCTURE WITH STAINLESS STEEL BOLTS
2	NEW SANDBOX PER CTA SPEC, SECURE TO PLATFORM STRUCTURE WITH STAINLESS STEEL BOLTS
3	NEW PLATFORM EXTENSION, STEEL FRAMING AND WOOD DECKING, REFER TRACK STRUCTURES DRAWINGS
4	NEW FLOOR MOUNTED TRASH RECEPTACLE PER CTA SPEC, SECURE TO SLAB OR PLATFORM STRUCTURE WITH STAINLESS STEEL BOLTS
5	NEW GAP FILLER WITH STAINLESS STEEL ENCLOSURE PER CTA SPEC, SECURE TO PLATFORM STRUCTURE WITH STAINLESS STEEL BOLTS
6	NEW STAINLESS STEEL EXIT ROTOGATE
7	NEW EXIT DOORS WITH PANIC HARDWARE TO INCLUDE CONCEALED VERTICAL ROD/CABLE AND TOP/BOTTOM FLUSHBOLT. REFER TO HARDWARE SPEC
8	SALVAGED AND RELOCATED LIGHT POLES (BOTH PLATFORMS-28 TOTAL) WITH BASE PLATES TO MATCH EXISTING DESIGN. PAINT TO MATCH EXISTING.
9	RE-INSTALL HELP POINT TELEPHONE ASSEMBLY AND RE-CONNECT. FINAL LOCATION TO BE COORDINATED WITH CTA
10	NEW FRP TRACK ACCESS STAIR AND HANDRAIL.
11	NEW GALV PTD STEEL ACCESS GATE AND RAILING AT END OF PLATFORM
12	NEW STAINLESS STEEL BENCH PER CTA SPEC, SECURE TO PLATFORM STRUCTURE WITH STAINLESS STEEL BOLTS
13	NEW GALVANIZED AND PAINTED STEEL VERTICAL 1"X1" STL BAR FENCING WITH MAX 3 3/4" SPACING. FENCE TO STOP 2" BELOW UNDERSIDE OF LANDING CANOPY AND BE STRUCTURALLY INDEPENDENT.
14	NEW FRP PLATFORM DECKING AT TRACK LEVEL ON MISC STEEL FRAMING. PROVIDE FRP GUARDRAIL. REFER DETAILS.



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APPROVED BY	M. KINDELIN
CHECKED BY	JW
DESIGNED BY	JW
DRAWN BY	JW, JC, RS, HN

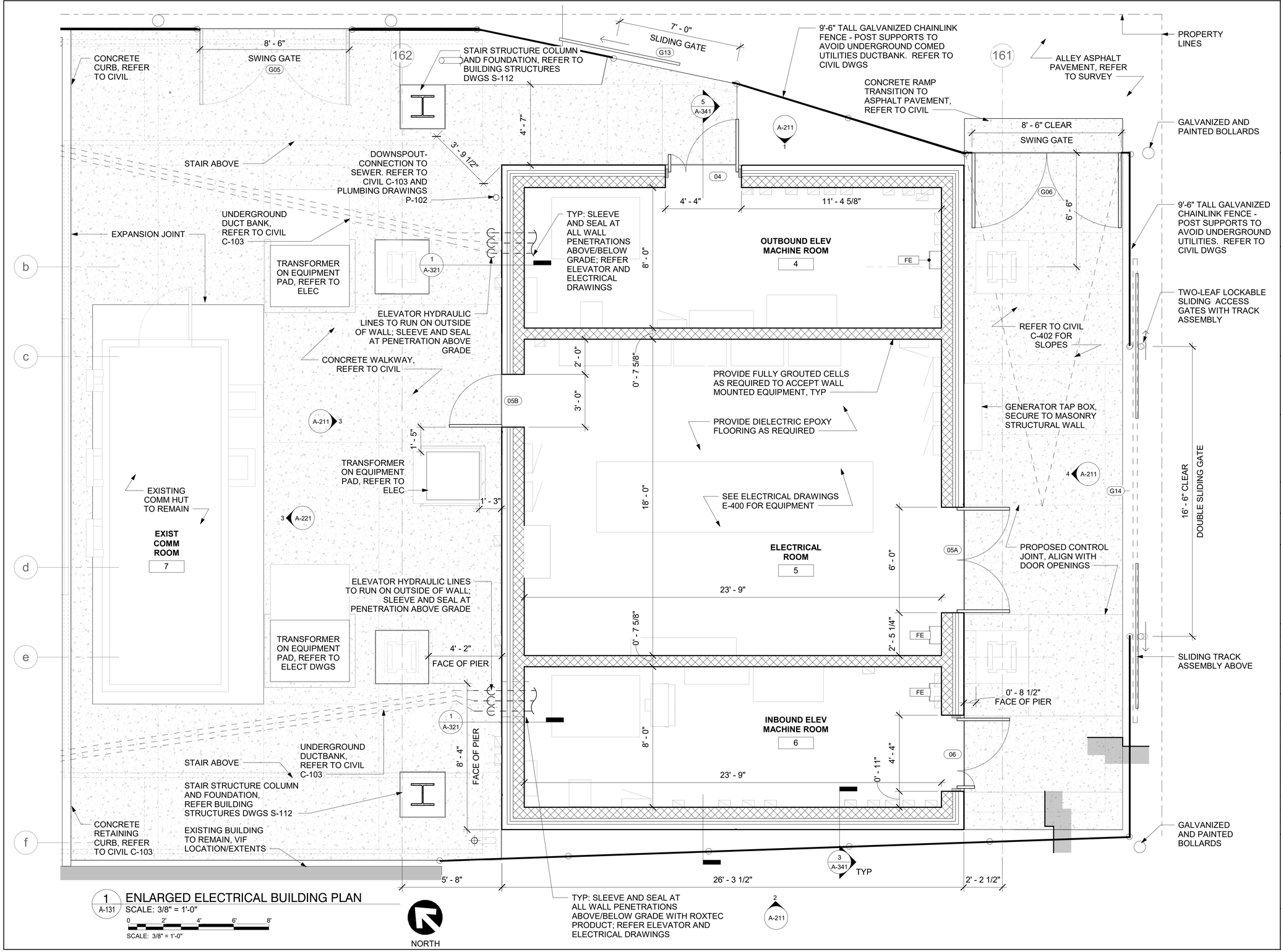
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PLATFORM LEVEL PLAN SOUTH

LSCAL A-123

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1 A-131 ENLARGED ELECTRICAL BUILDING PLAN

SCALE: 3/8" = 1'-0"

0 2' 4' 6' 8'

SCALE: 3/8" = 1'-0"

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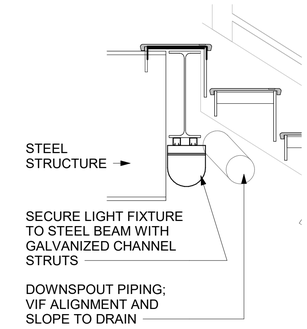
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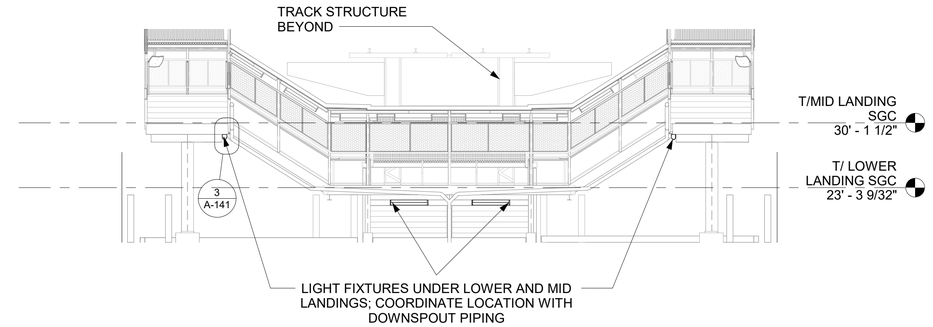
ELECTRICAL AND MACHINE ROOM BUILDING PLANS

LSCAL A-131

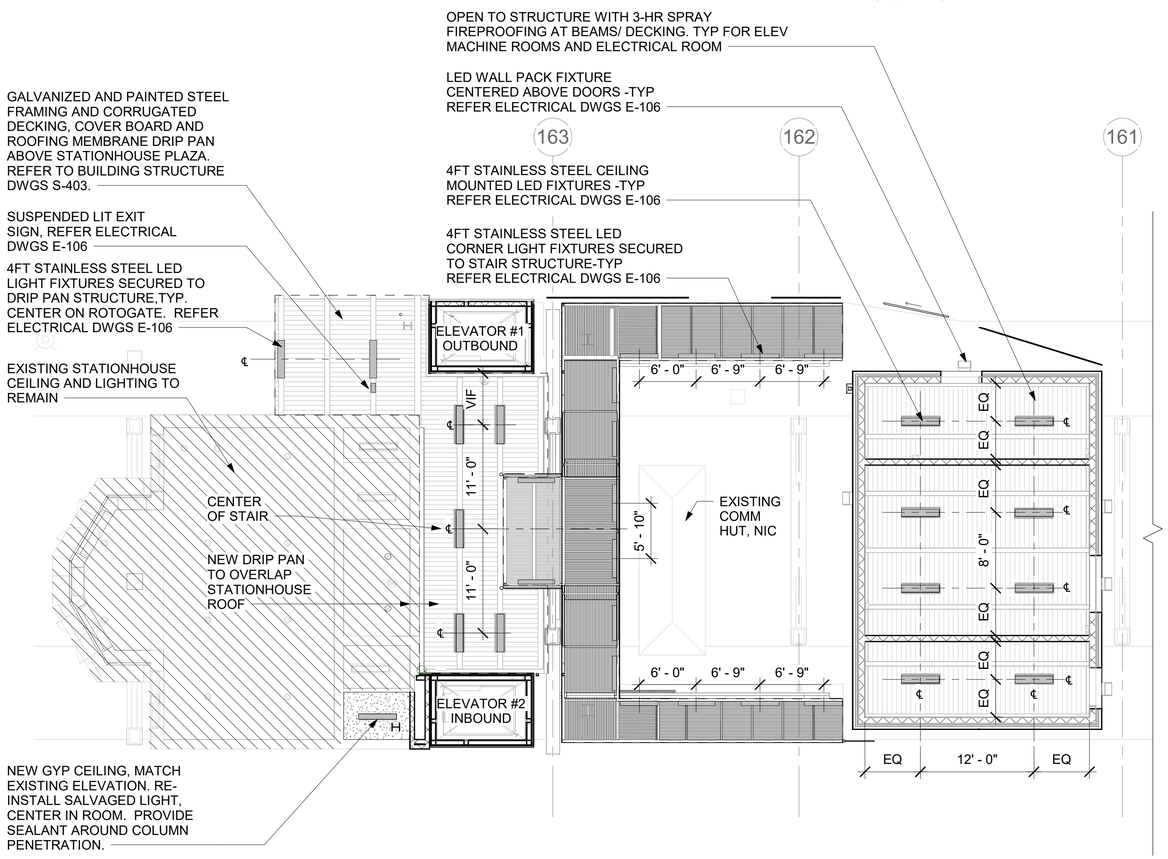
VOLUME: 1 OF 1



3 A-141 LIGHT FIXTURE AT LOWER LANIDING
SCALE: 1" = 1'-0"



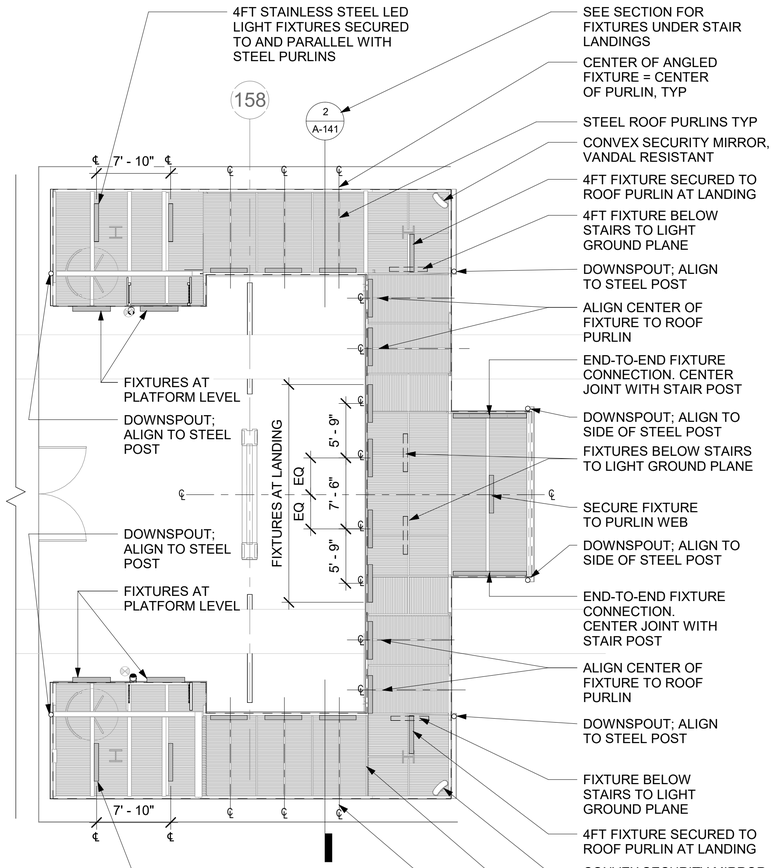
2 A-141 FIXTURES UNDER STAIRS #2
SCALE: 1/8" = 1'-0"



1 A-141 REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

SCALE: 3/64" = 1'-0"

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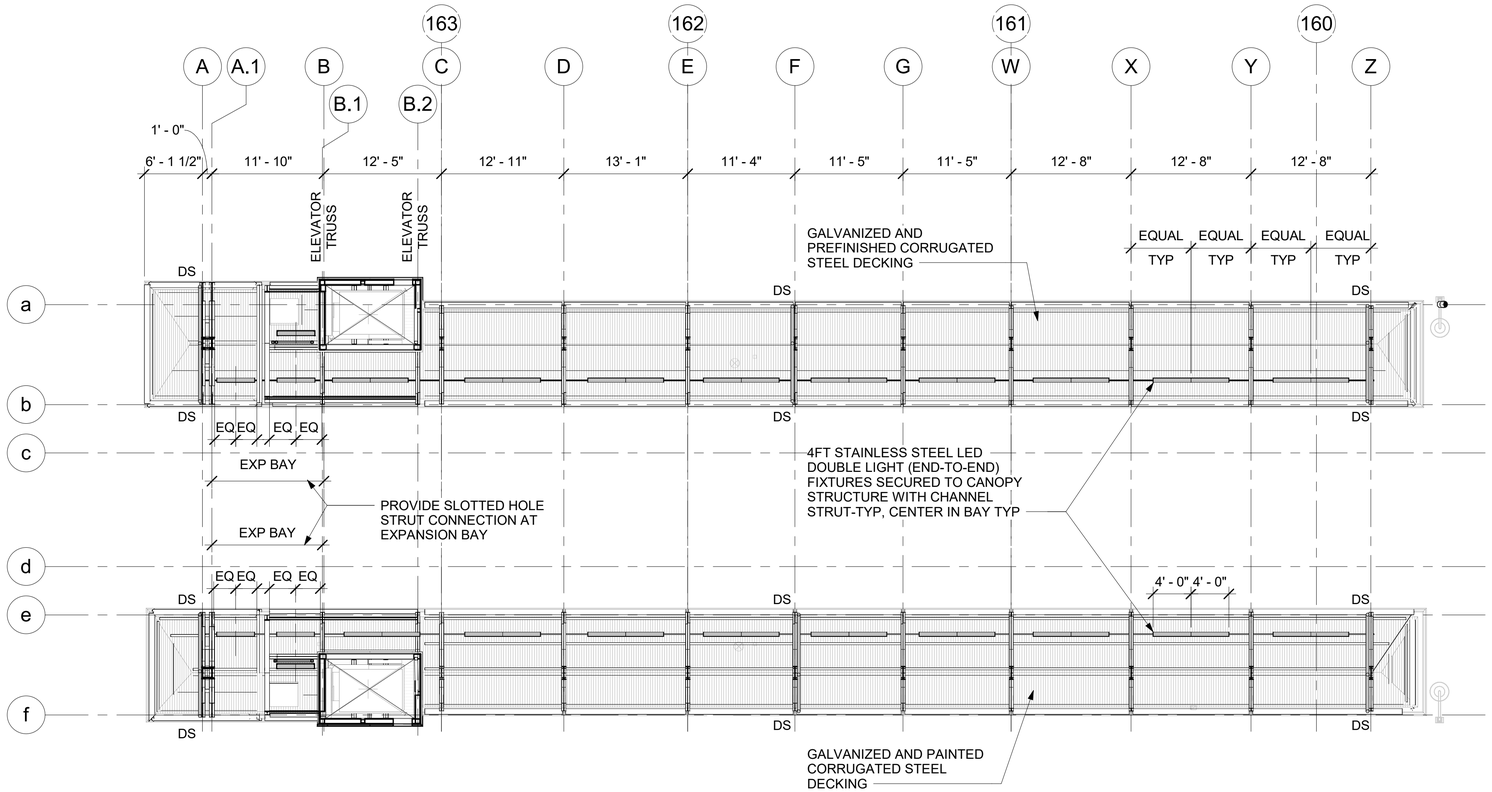
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STREET LEVEL- REFLECTED CEILING PLAN

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1 A-142 REFLECTED CEILING PLAN - CANOPIES

SCALE: 1/8" = 1'-0"

0 4' 8' 16' 24'

SCALE: 1/8" = 1'-0"

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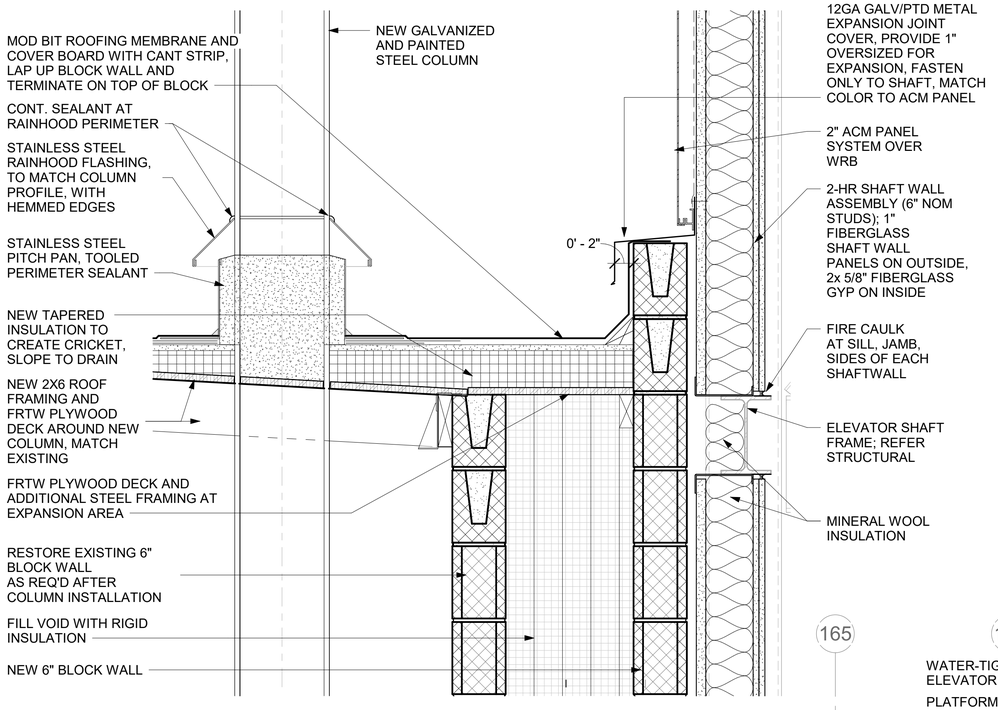
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PLATFORM LEVEL - REFLECTED CEILING PLAN

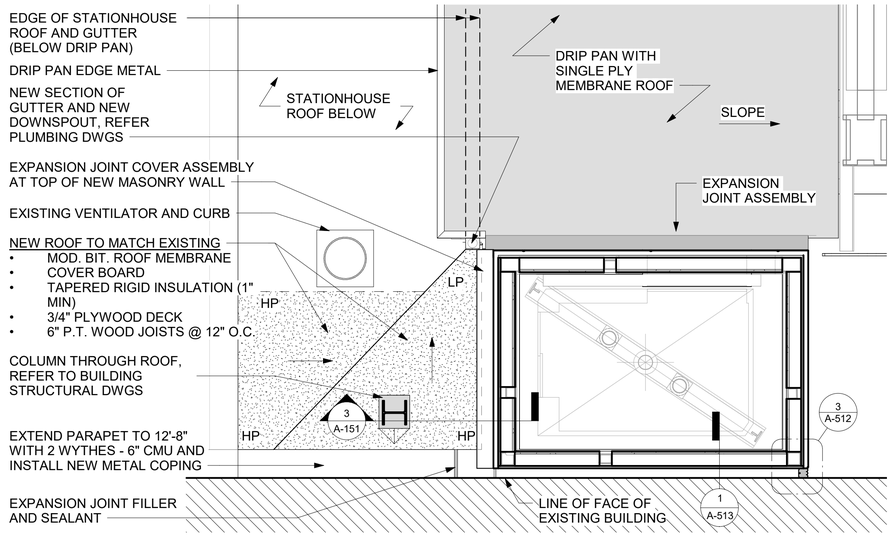
LSCAL | A-142

VOLUME: 1 OF 1



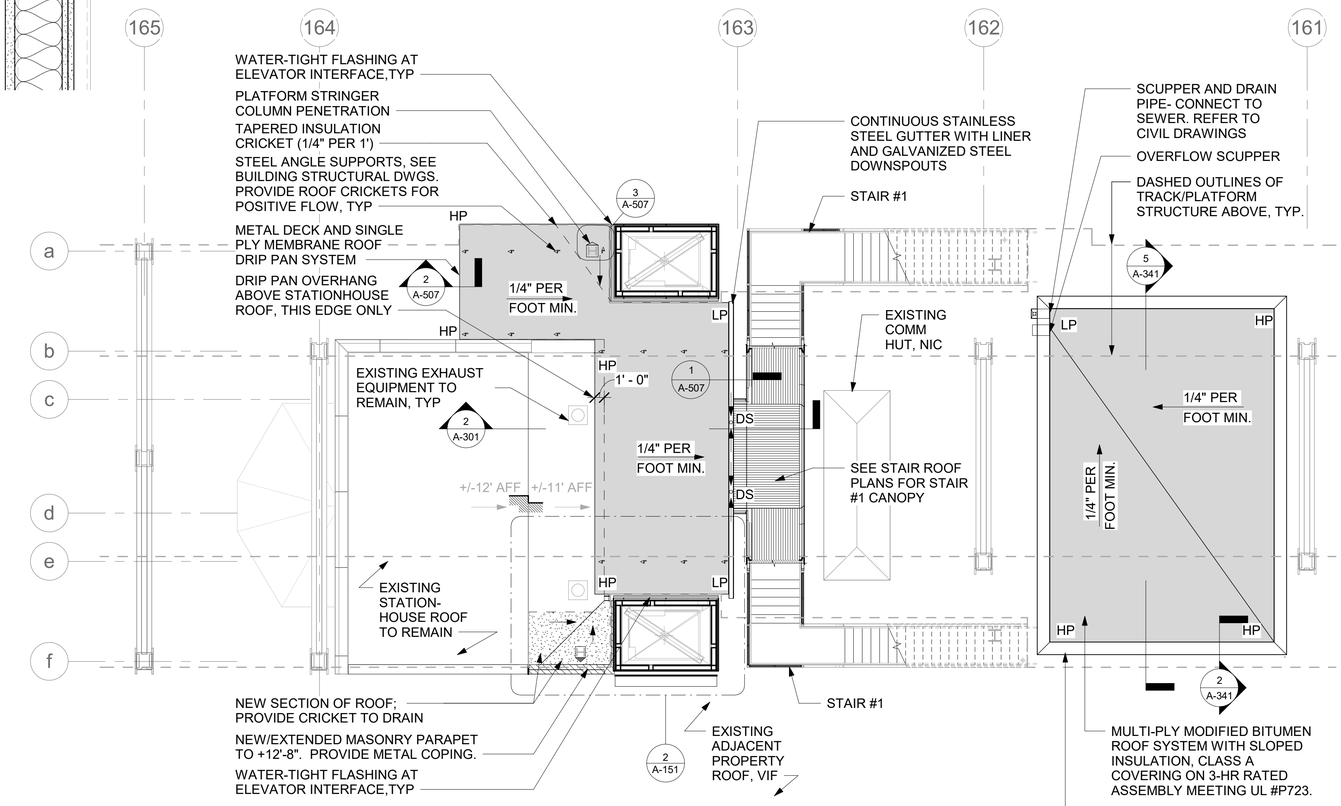
3 A-151 FLASHING DETAIL AT ROOF PENETRATION
SCALE: 1 1/2" = 1'-0"

0 1/2' 1' 1 1/2' 2'
SCALE: 1 1/2" = 1'-0"



2 A-151 EXPANSION JOINTS AT ELEVATOR #2 INBOUND
SCALE: 3/8" = 1'-0"

0 2' 4' 6' 8'
SCALE: 3/8" = 1'-0"



1 A-151 GRADE LEVEL ROOF PLAN
SCALE: 1/8" = 1'-0"

NORTH

0 4' 8' 16' 24'
SCALE: 1/8" = 1'-0"

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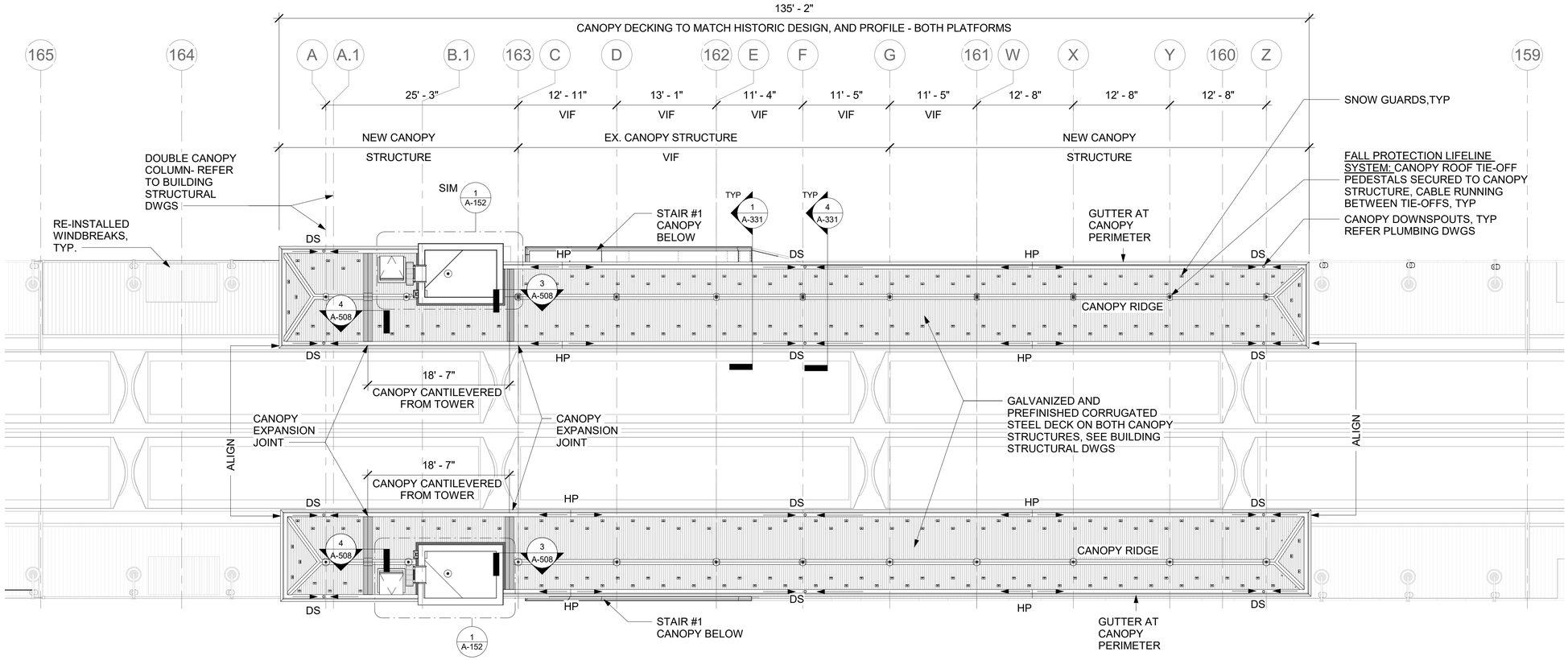
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STATIONHOUSE AND ELECTRICAL BLDG ROOF PLAN

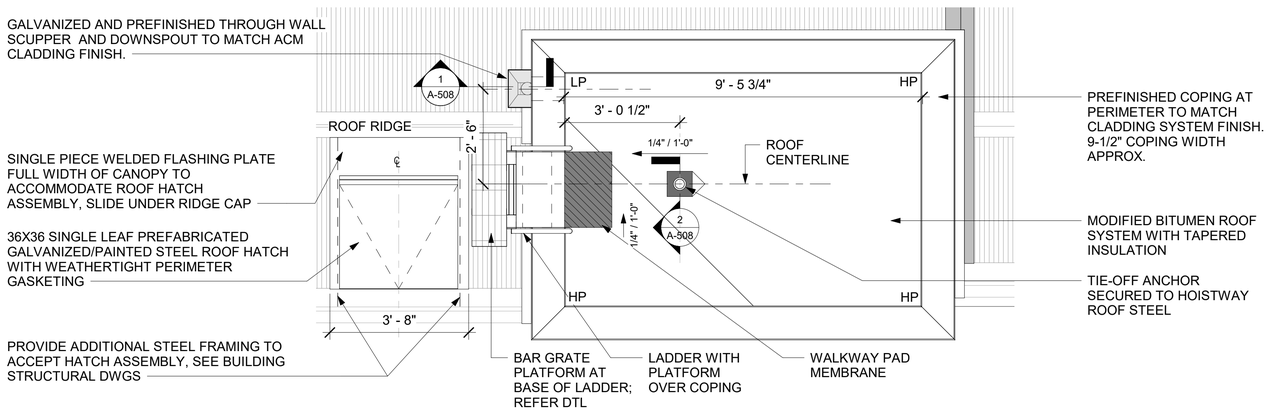
LSCAL A-151
VOLUME: 1 OF 1



2 PLATFORM LEVEL CANOPY PLAN - CENTER
A-152 SCALE: 1/8" = 1'-0"

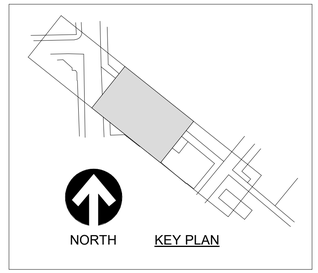
NORTH

0 4' 8' 16' 24'
SCALE: 1/8" = 1'-0"



1 ELEVATOR ROOF PLAN-ENLARGED
A-152 SCALE: 1/2" = 1'-0"

0 1' 2' 4' 6'
SCALE: 1/2" = 1'-0"



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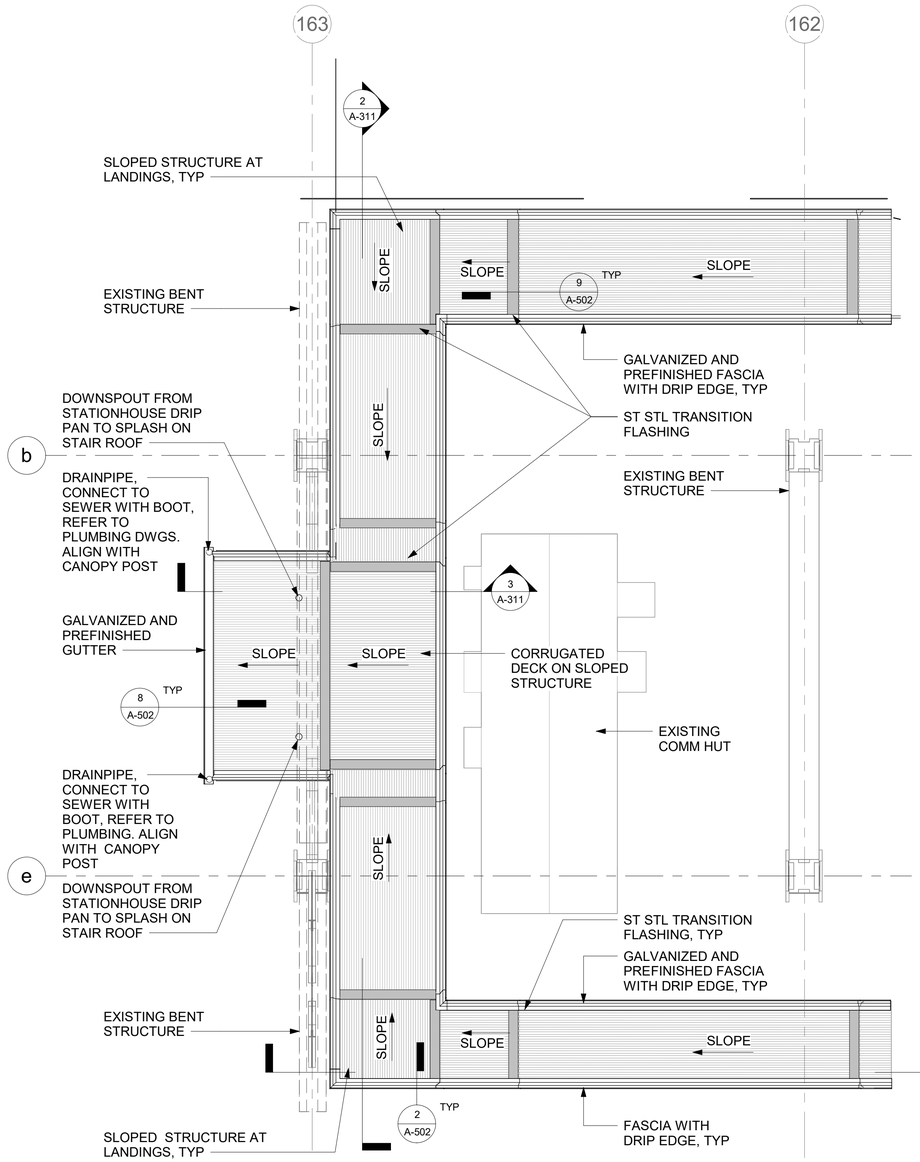
PLATFORM CANOPY AND ELEVATOR ROOF PLAN

LSCAL | A-152

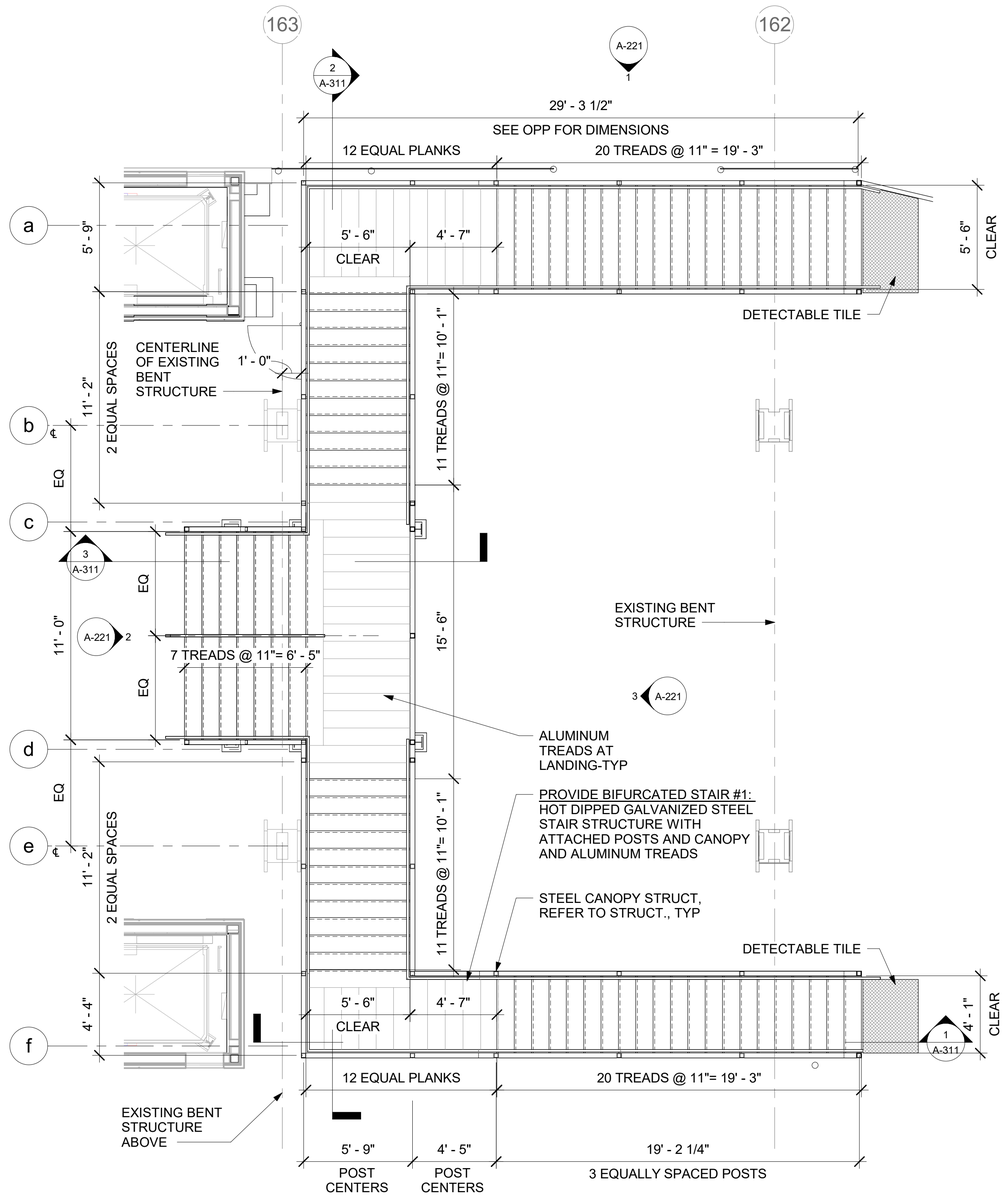
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2 A-161 STAIR #1 ROOF PLAN
SCALE: 1/4" = 1'-0"
0 2' 4' 8' 12'
SCALE: 1/4" = 1'-0"



1 A-161 STAIR #1 PLAN
SCALE: 1/4" = 1'-0"
0 2' 4' 8' 12'
SCALE: 1/4" = 1'-0"

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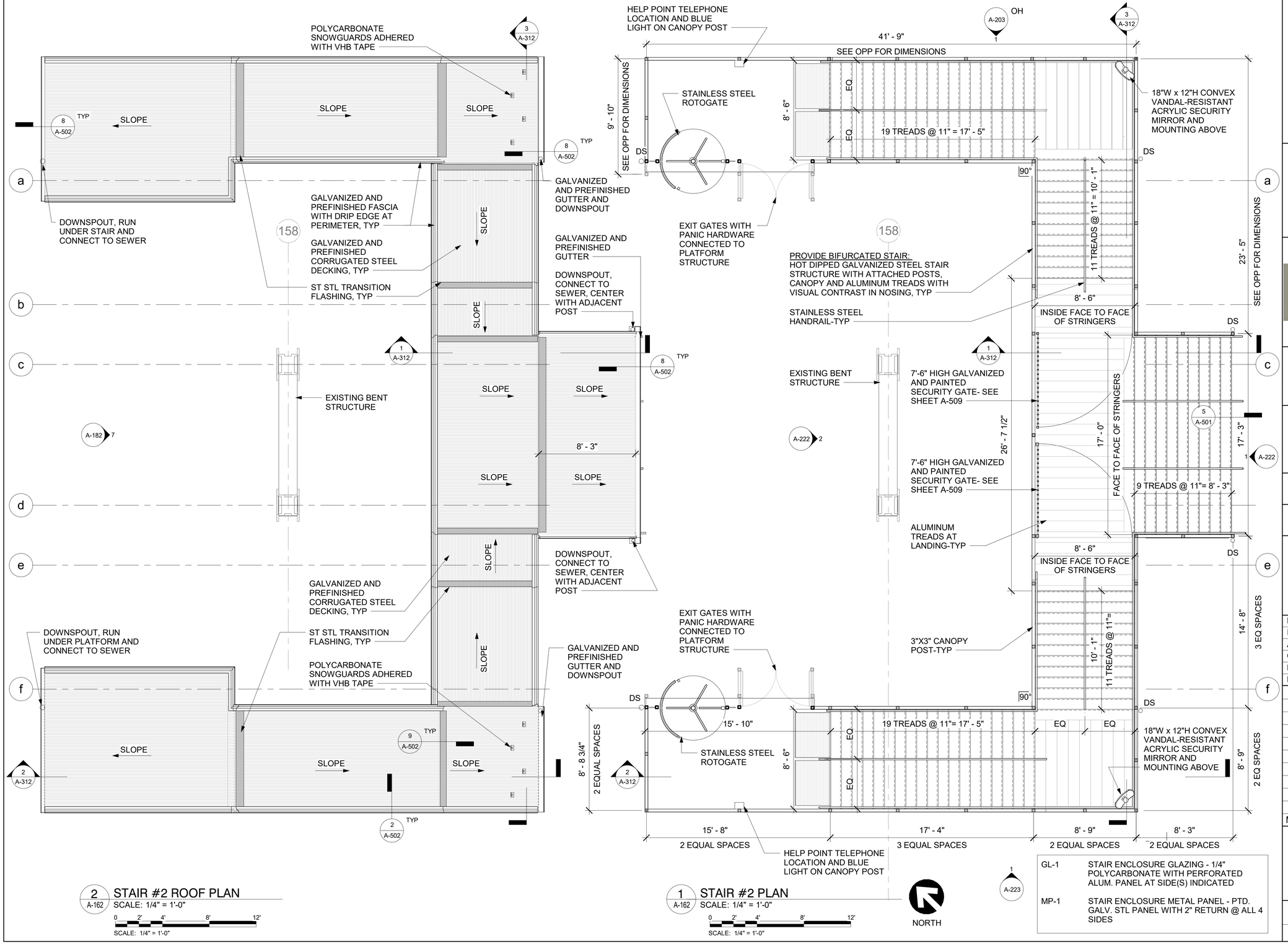
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STAIR 1 PLAN AND ROOF PLAN

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2 A-162 **STAIR #2 ROOF PLAN**
SCALE: 1/4" = 1'-0"
0 2' 4' 8' 12'
SCALE: 1/4" = 1'-0"

1 A-162 **STAIR #2 PLAN**
SCALE: 1/4" = 1'-0"
0 2' 4' 8' 12'
SCALE: 1/4" = 1'-0"

GL-1	STAIR ENCLOSURE GLAZING - 1/4" POLYCARBONATE WITH PERFORATED ALUM. PANEL AT SIDE(S) INDICATED
MP-1	STAIR ENCLOSURE METAL PANEL - PTD. GALV. STL PANEL WITH 2" RETURN @ ALL 4 SIDES

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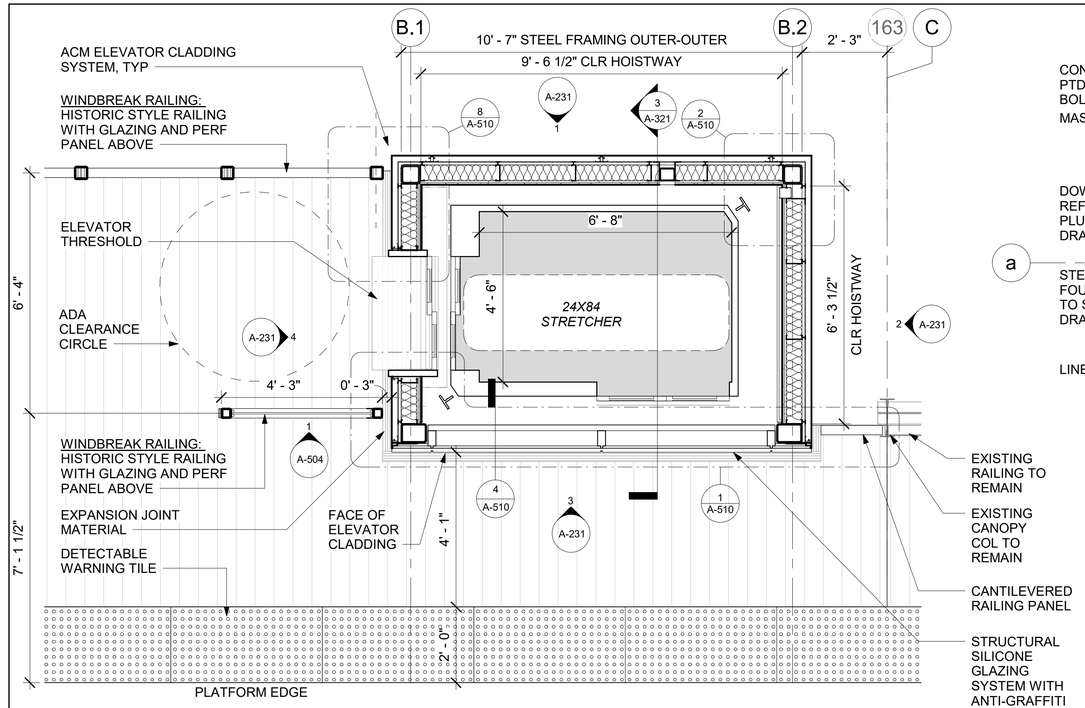
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STAIR 2 PLAN AND ROOF PLAN

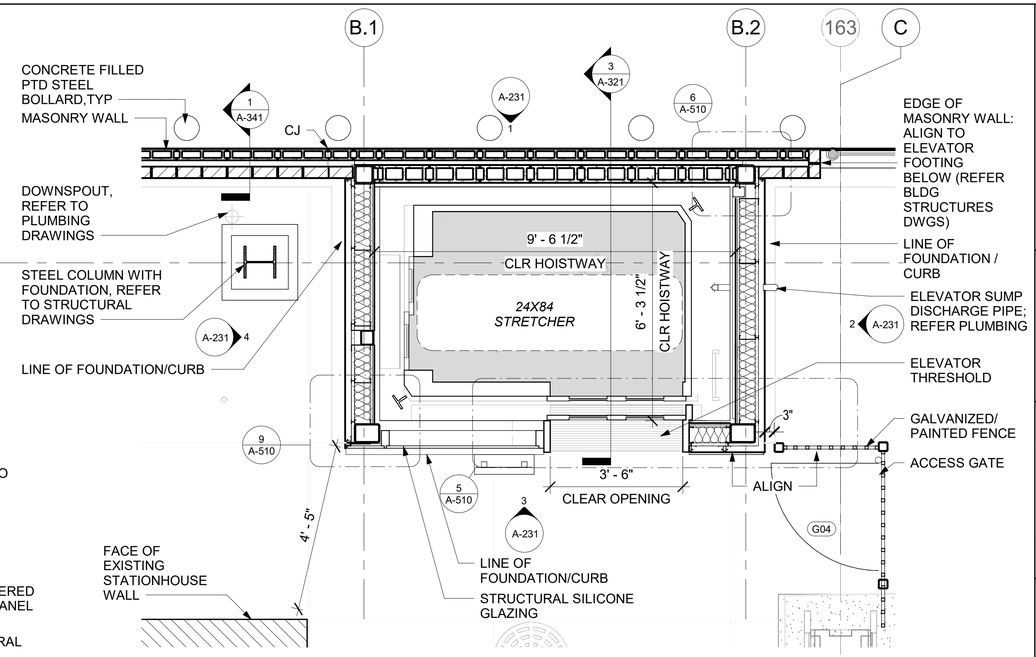
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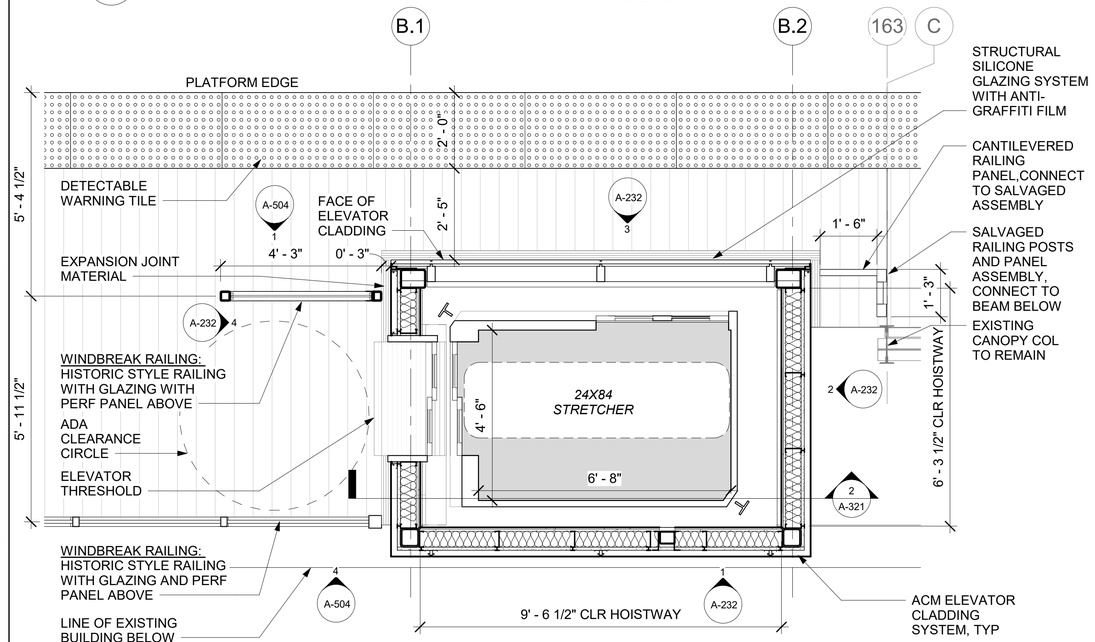
4 A-171 ELEVATOR #1 OUTBOUND - PLAN AT PLATFORM
SCALE: 1/2" = 1'-0"

SCALE: 1/2" = 1'-0"



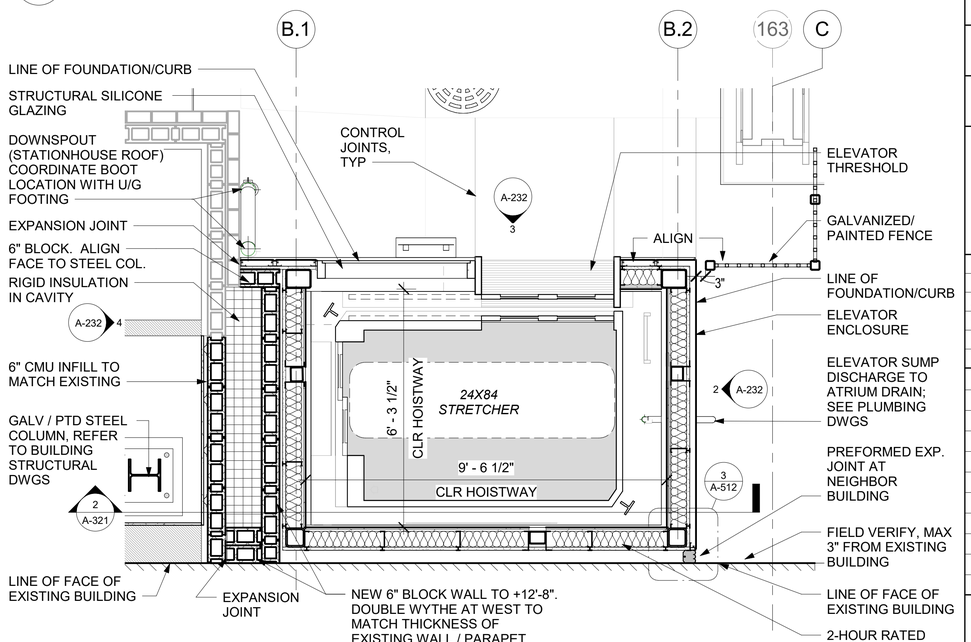
2 A-171 ELEVATOR #1 OUTBOUND - PLAN AT GRADE
SCALE: 1/2" = 1'-0"

SCALE: 1/2" = 1'-0"



3 A-171 ELEVATOR #2 INBOUND - PLAN AT PLATFORM
SCALE: 1/2" = 1'-0"

SCALE: 1/2" = 1'-0"



1 A-171 ELEVATOR #2 INBOUND - PLAN AT GRADE
SCALE: 1/2" = 1'-0"

SCALE: 1/2" = 1'-0"

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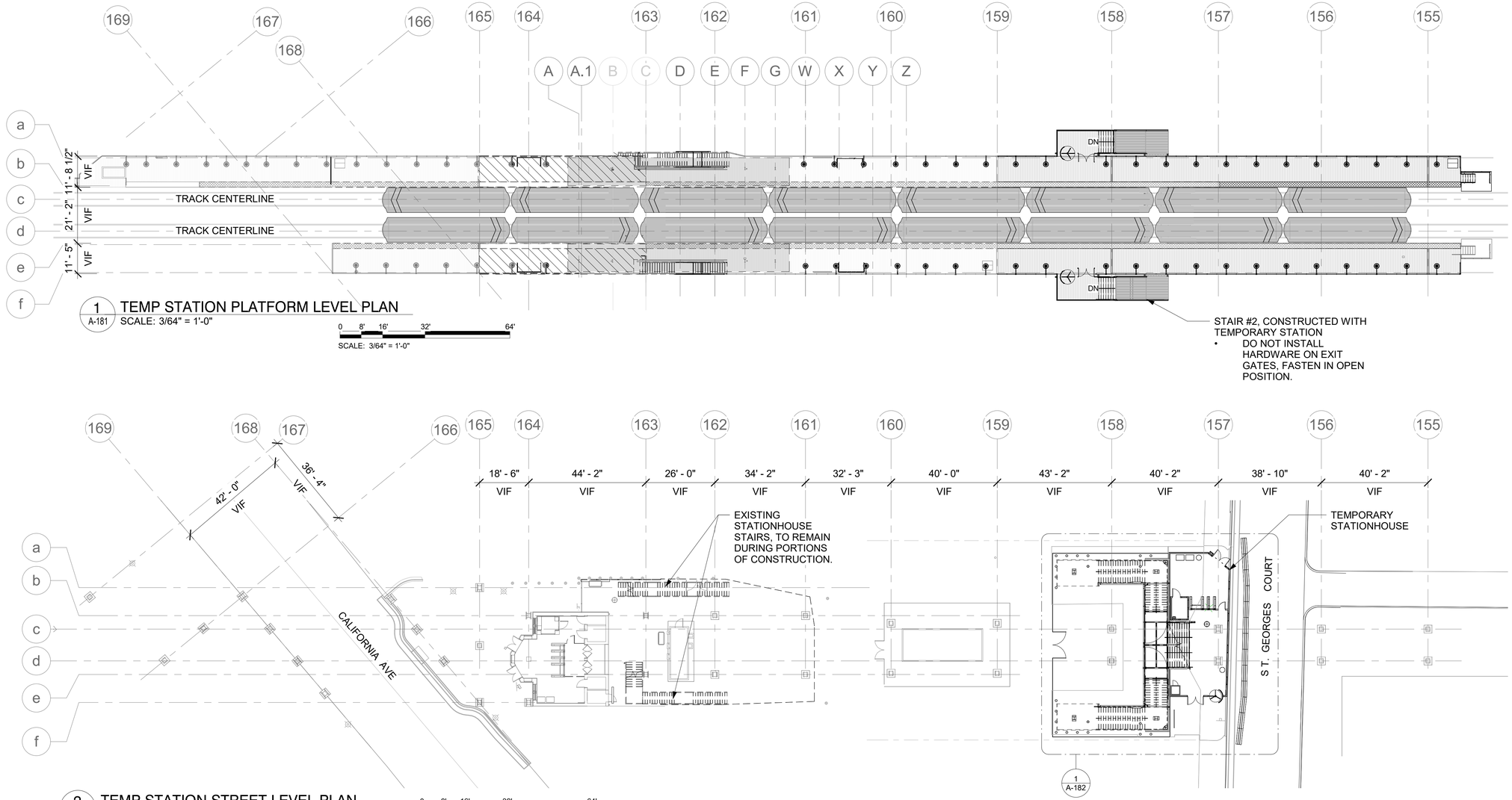
PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	M. KINDELIN
CHECKED BY	JW
DESIGNED BY	JW
DRAWN BY	JW, JC, RS, HN

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ELEVATOR PLANS

LSCAL | A-171

VOLUME: 1 OF 1



1 A-181 TEMP STATION PLATFORM LEVEL PLAN
SCALE: 3/64" = 1'-0"

0 8' 16' 32' 64'
SCALE: 3/64" = 1'-0"

2 A-181 TEMP STATION STREET LEVEL PLAN
SCALE: 3/64" = 1'-0"

0 8' 16' 32' 64'
SCALE: 3/64" = 1'-0"

PHASING NOTE:
1. REFER TO GENERAL SHEETS FOR PROPOSED CONCEPTUAL PHASING PLANS.
2. STATION TO REMAIN OPEN DURING CONSTRUCTION, SEE PHASING PLANS FOR DETAILS.
3. REFER TO CIVIL DRAWINGS AND TEMP STATION SPEC FOR ADDITIONAL TEMPORARY STATION INFORMATION.

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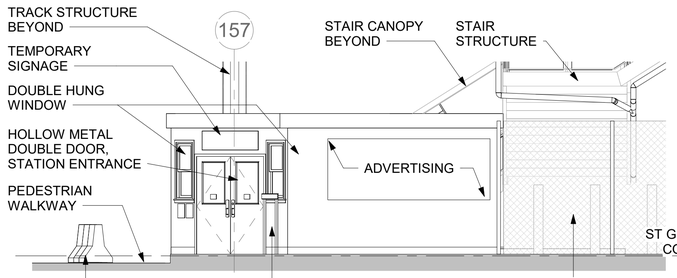
TEMPORARY STATION OVERALL PLAN

LSCAL A-181

VOLUME: 1 OF 1

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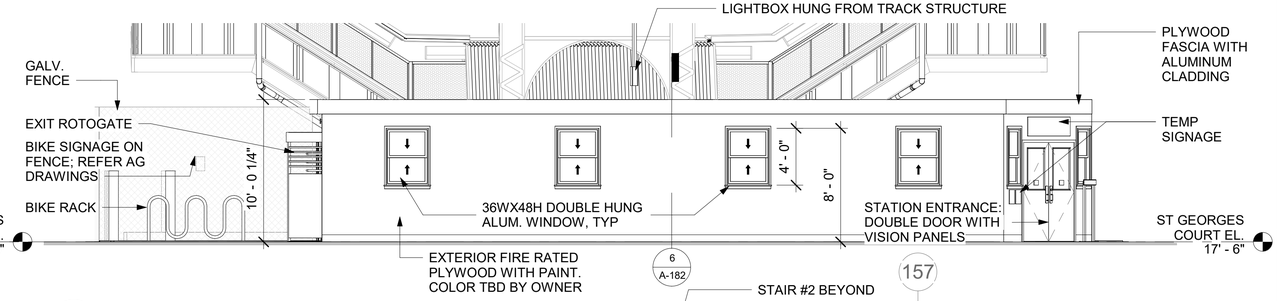


8 A-182 TEMP STATION NORTH ELEVATION

SCALE: 3/16" = 1'-0"

0 4' 8' 12' 16'

SCALE: 3/16" = 1'-0"

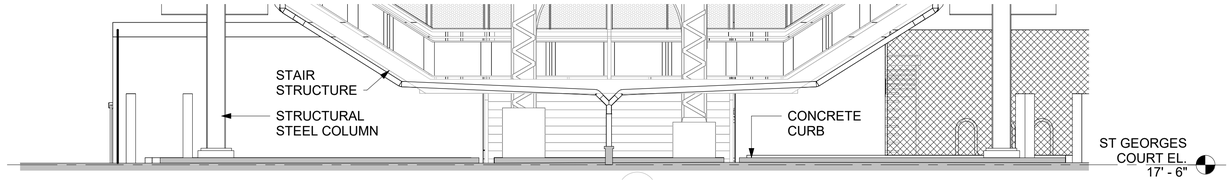


3 A-182 TEMP STATION EAST ELEVATION

SCALE: 3/16" = 1'-0"

0 4' 8' 12' 16'

SCALE: 3/16" = 1'-0"

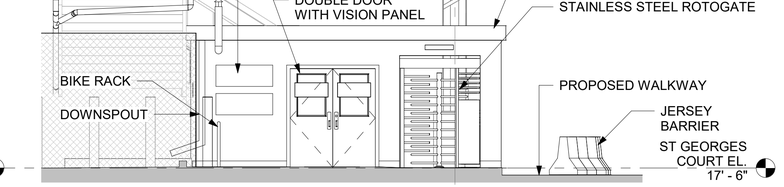


7 A-182 TEMP STATION WEST ELEVATION

SCALE: 3/16" = 1'-0"

0 4' 8' 12' 16'

SCALE: 3/16" = 1'-0"

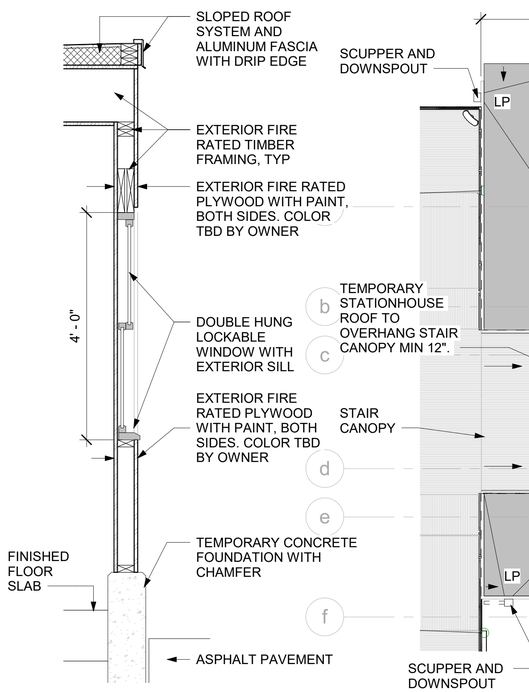


2 A-182 TEMP STATION SOUTH ELEVATION

SCALE: 3/16" = 1'-0"

0 4' 8' 12' 16'

SCALE: 3/16" = 1'-0"

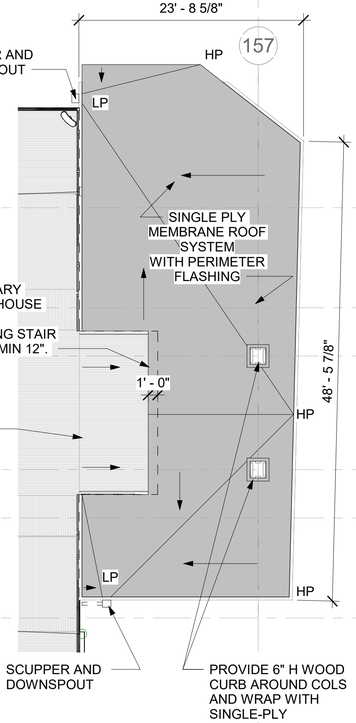


6 A-182 TEMP-WALL SECTION

SCALE: 3/4" = 1'-0"

0 1' 2' 3' 4'

SCALE: 3/4" = 1'-0"

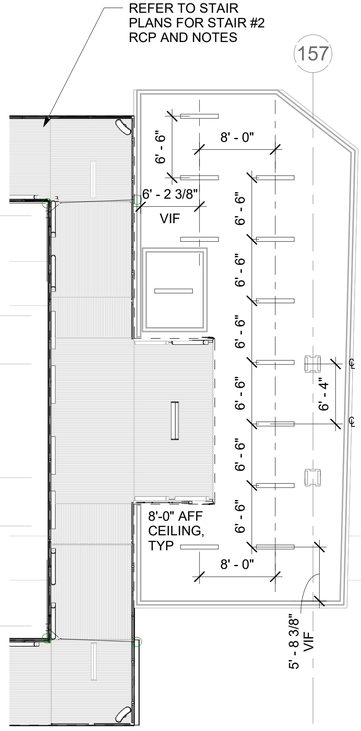


5 A-182 TEMP STATION ROOF PLAN

SCALE: 1/8" = 1'-0"

0 4' 8' 16' 24'

SCALE: 1/8" = 1'-0"

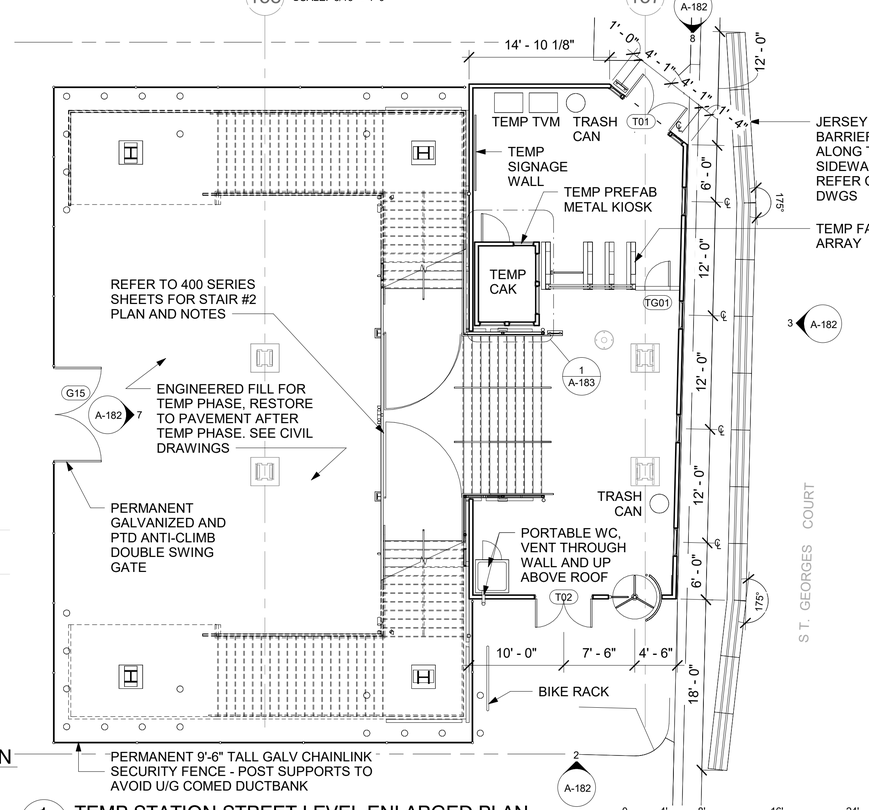


4 A-182 TEMP STATION REFLECTED CEILING PLAN

SCALE: 1/8" = 1'-0"

0 4' 8' 16' 24'

SCALE: 1/8" = 1'-0"



1 A-182 TEMP STATION STREET LEVEL ENLARGED PLAN

SCALE: 1/8" = 1'-0"

0 4' 8' 16' 24'

SCALE: 1/8" = 1'-0"

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TEMP STATION ENLARGED PLAN

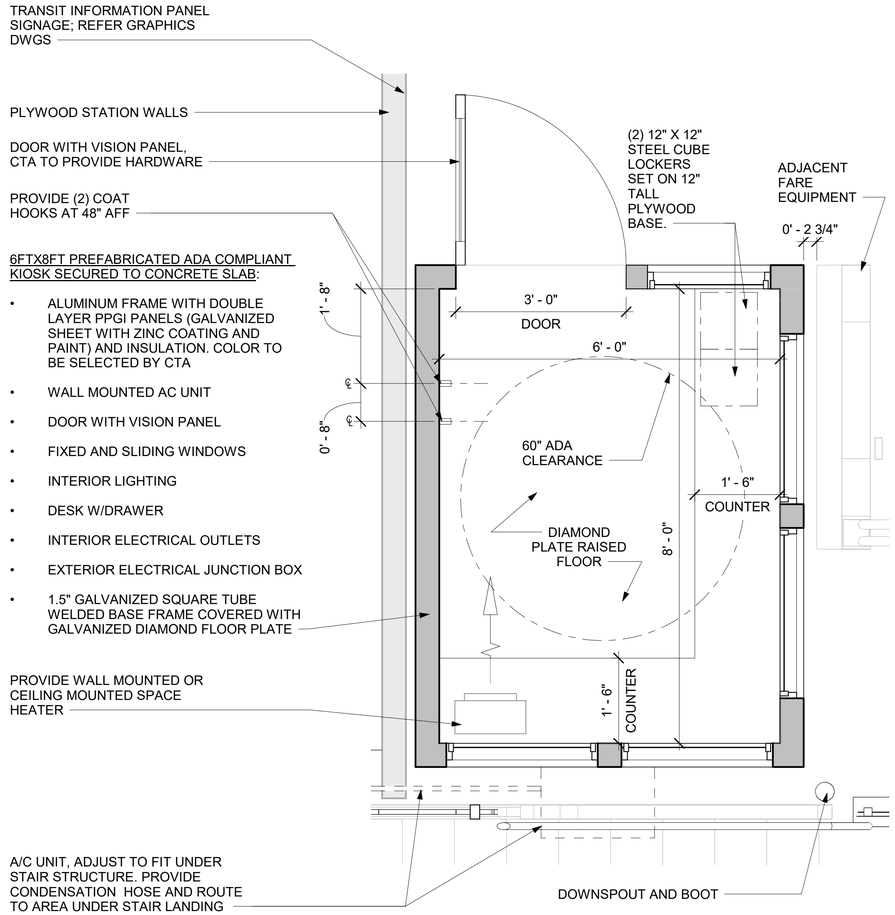
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A-182

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6FTX8FT PREFABRICATED ADA COMPLIANT KIOSK SECURED TO CONCRETE SLAB:

- ALUMINUM FRAME WITH DOUBLE LAYER PPGI PANELS (GALVANIZED SHEET WITH ZINC COATING AND PAINT) AND INSULATION. COLOR TO BE SELECTED BY CTA
- WALL MOUNTED AC UNIT
- DOOR WITH VISION PANEL
- FIXED AND SLIDING WINDOWS
- INTERIOR LIGHTING
- DESK W/DRAWER
- INTERIOR ELECTRICAL OUTLETS
- EXTERIOR ELECTRICAL JUNCTION BOX
- 1.5" GALVANIZED SQUARE TUBE WELDED BASE FRAME COVERED WITH GALVANIZED DIAMOND FLOOR PLATE

1 / A-183 TEMP KIOSK PLAN

SCALE: 3/4" = 1'-0"

0 1' 2' 3' 4'

SCALE: 3/4" = 1'-0"

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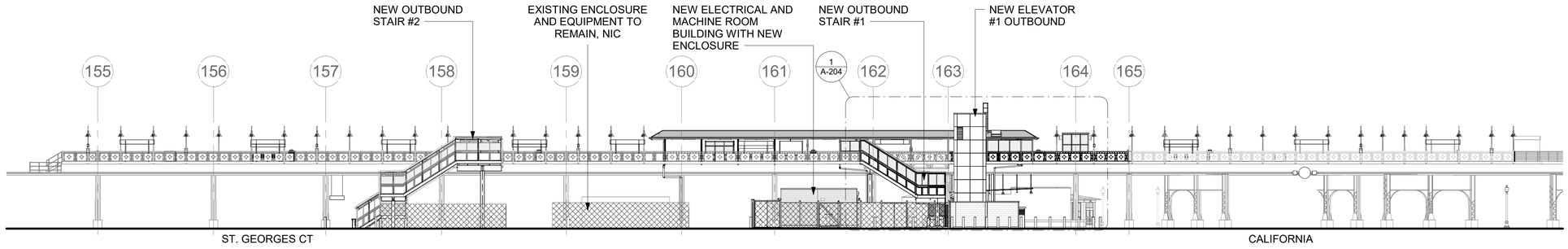
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TEMP STATION CAK

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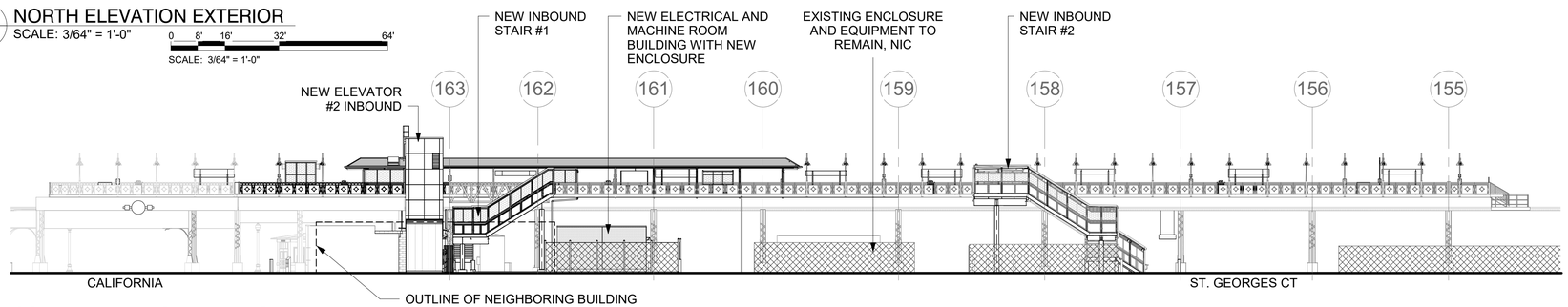


4 NORTH ELEVATION EXTERIOR

A-201 SCALE: 3/64" = 1'-0"

0 8' 16' 32' 64'

SCALE: 3/64" = 1'-0"

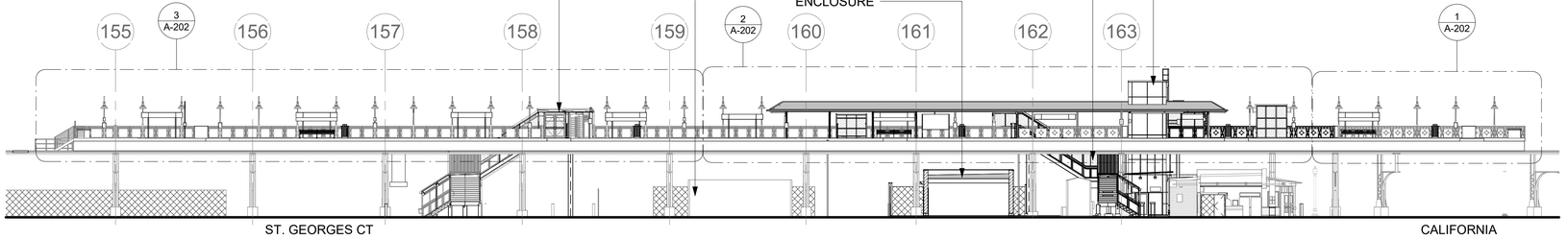


3 SOUTH ELEVATION EXTERIOR

A-201 SCALE: 3/64" = 1'-0"

0 8' 16' 32' 64'

SCALE: 3/64" = 1'-0"

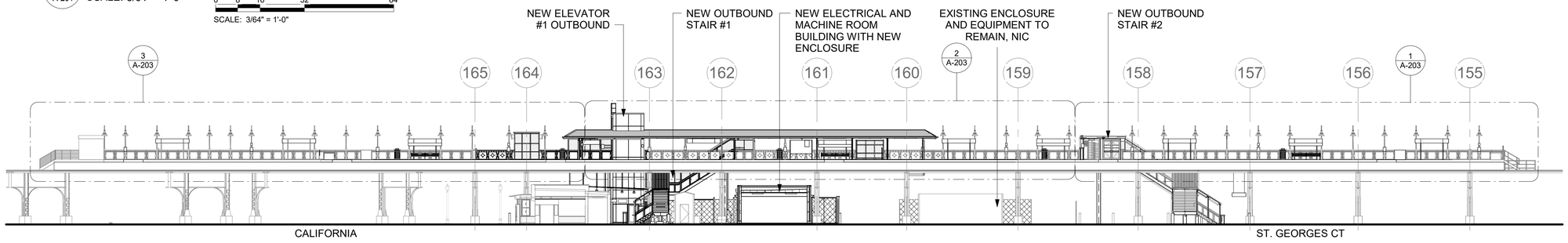


2 INBOUND ELEVATION INSIDE

A-201 SCALE: 3/64" = 1'-0"

0 8' 16' 32' 64'

SCALE: 3/64" = 1'-0"



1 OUTBOUND ELEVATION INSIDE

A-201 SCALE: 3/64" = 1'-0"

0 8' 16' 32' 64'

SCALE: 3/64" = 1'-0"

GENERAL PAINTING NOTES:

1. GC TO COORDINATE PAINTING OF ALL NEW STRUCTURAL STEEL AND ALL NEW MISCELLANEOUS METALS
2. GC TO COORDINATE PAINTING OF ALL REPAIRED AND EXISTING HISTORIC ELEMENTS, INCLUDING BUT NOT LIMITED TO, CANOPY COLUMNS AND FRAMING, RAILINGS, RAILING TRUSS, LIGHT POLES AND ALL BENTS AND BENT PORTIONS THAT ARE TO BE MODIFIED.

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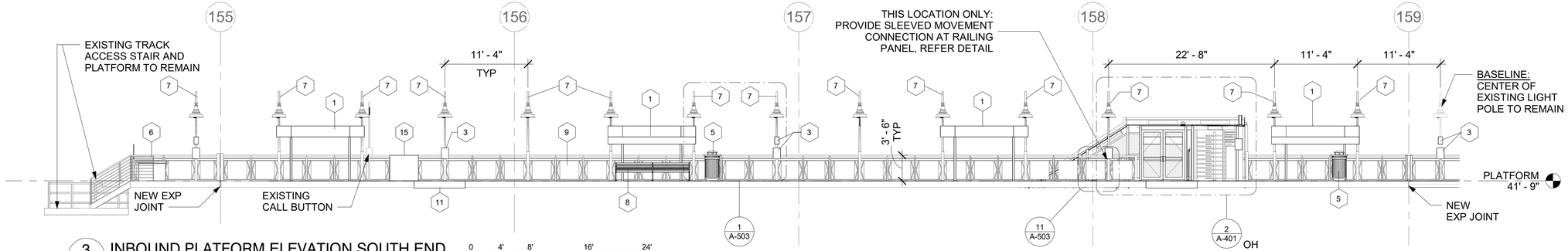
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OVERALL ELEVATIONS

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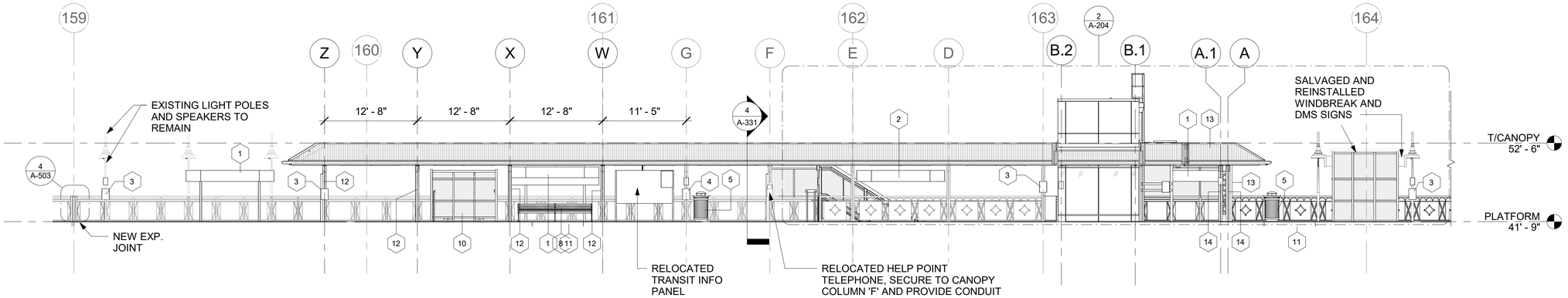
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3 A-202 INBOUND PLATFORM ELEVATION SOUTH END
SCALE: 1/8" = 1'-0"

0 4' 8' 16' 24'
SCALE: 1/8" = 1'-0"

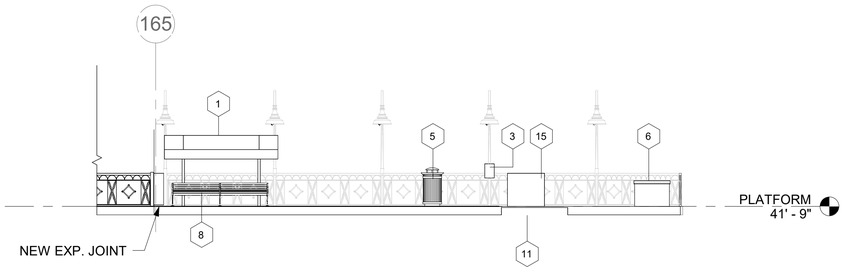


2 A-202 INBOUND PLATFORM ELEVATION (SOUTH)
SCALE: 1/8" = 1'-0"

0 4' 8' 16' 24'
SCALE: 1/8" = 1'-0"

KEYNOTES

Number	Description
1	NEW SIGN FACES ON RELOCATED OR NEW FRAME. SEE ARCH GRAPHICS
2	NEW SIGN FACES ON EXISTING FRAME. SEE ARCH GRAPHICS
3	NEW SIGN FACE AND BACKER PLATE SECURED TO LIGHT POLE
4	NEW SIGN FACE AND BACKER PLATE ON CANOPY COLUMN. SEE ARCH GRAPHICS
5	NEW FLOOR MOUNTED TRASH RECEPTACLE PER CTA SPEC, SECURE TO SLAB OR PLATFORM STRUCTURE WITH STAINLESS STEEL BOLTS
6	NEW SANDBOX PER CTA SPEC, SECURE TO PLATFORM STRUCTURE WITH STAINLESS STEEL BOLTS
7	SALVAGED AND RELOCATED LIGHT POLES (BOTH PLATFORMS-28 TOTAL) WITH BASE PLATES TO MATCH EXISTING DESIGN. PAINT TO MATCH EXISTING.
8	NEW STAINLESS STEEL BENCH PER CTA SPEC, SECURE TO PLATFORM STRUCTURE WITH STAINLESS STEEL BOLTS
9	NEW GALVANIZED AND PAINTED PLATFORM RAILINGS TO MATCH EXISTING HISTORIC DESIGN IN SHAPE AND SIZE
10	NEW GALVANIZED AND PAINTED WINDBREAK WITH GLAZING AND PERFORATED PANEL. PATCH WOOD DECKING AS REQUIRED AT PREVIOUS PLATFORM PENETRATIONS
11	NEW P7 SIGN SECURED TO PLATFORM JOIST
12	NEW GALVANIZED AND PAINTED STEEL CANOPY COLUMN-MATCH EXISTING HISTORIC DESIGN. REFER TO BUILDING STRUCTURES DRAWINGS. PROVIDE NEW WOOD DECKING AND JOIST REINFORCEMENT AS REQUIRED TO MATCH EXISTING AND ACCOMMODATE NEW CANOPY COLUMNS
13	NEW CANOPY- CORRUGATED METAL DECK SYSTEM TO MATCH EXISTING WITH PREFINISHED ALUMINUM GUTTERS AND DOWNSPOUTS
14	NEW GALVANIZED AND PAINTED STEEL CANOPY COLUMN-MODIFIED TO ACCOMMODATE NEW ROOF SLOPE. REFER TO BUILDING STRUCTURES DRAWINGS.
15	NEW GAP FILLER WITH STAINLESS STEEL ENCLOSURE PER CTA SPEC, SECURE TO PLATFORM STRUCTURE WITH STAINLESS STEEL BOLTS



1 A-202 INBOUND PLATFORM ELEVATION (NORTH)
SCALE: 1/8" = 1'-0"

0 4' 8' 16' 24'
SCALE: 1/8" = 1'-0"

GENERAL NOTES - PLATFORM:

1. SIGN FRAMES OVER STREET SHALL RECEIVE SIGN FACES ON BOTH SIDES OF FRAME
2. EXISTING SIGN FRAMES TO REMAIN U.N.O.
3. EXISTING PLATFORM FURNITURE TO BE SALVAGED AND RETURNED TO CTA WEST SHOPS
4. ALL EXPANSION JOINTS SHALL BE MAINTAINED THROUGHOUT TRACK STRUCTURE AND PLATFORM

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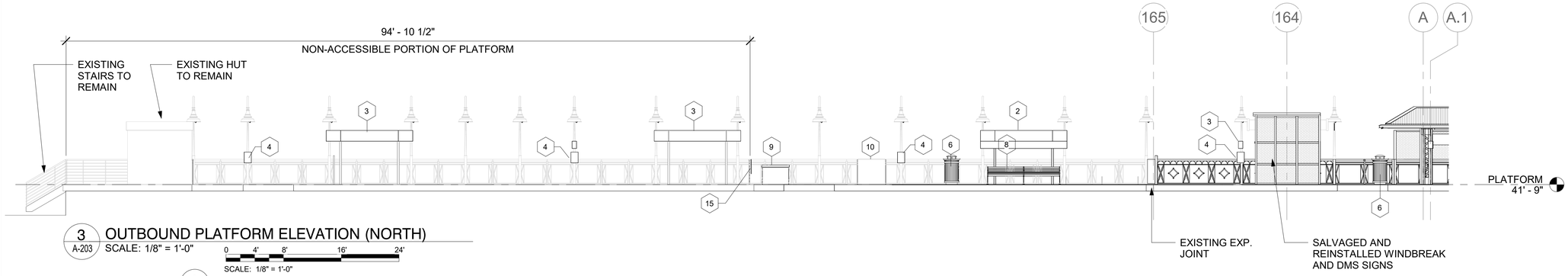
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PLATFORM ELEVATIONS - INBOUND

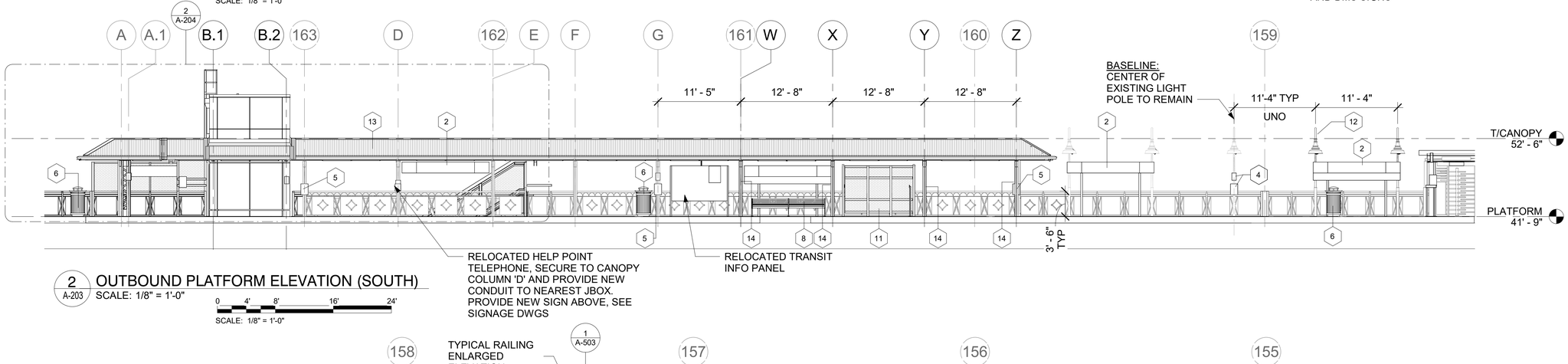
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VOLUME: 1 OF 1

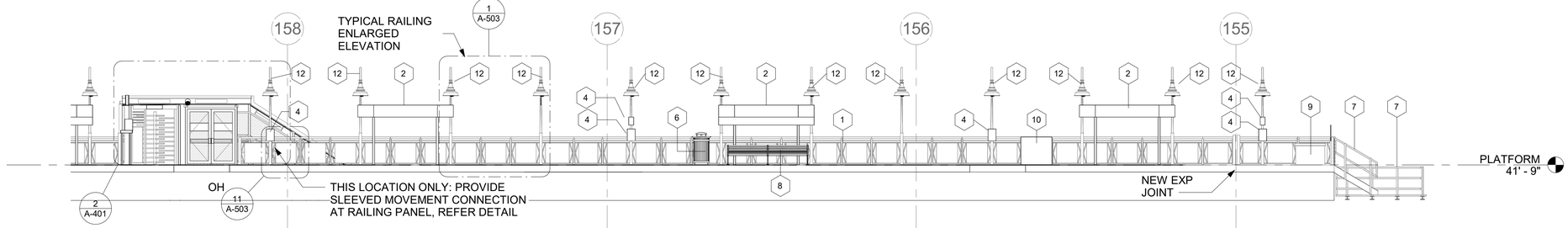
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3 A-203 OUTBOUND PLATFORM ELEVATION (NORTH)
SCALE: 1/8" = 1'-0"
SCALE: 1/8" = 1'-0"



2 A-203 OUTBOUND PLATFORM ELEVATION (SOUTH)
SCALE: 1/8" = 1'-0"
SCALE: 1/8" = 1'-0"



1 A-203 OUTBOUND PLATFORM ELEVATION SOUTH END
SCALE: 1/8" = 1'-0"
SCALE: 1/8" = 1'-0"

KEYNOTES

Number	Description
1	NEW GALVANIZED AND PAINTED PLATFORM RAILINGS TO MATCH EXISTING HISTORIC DESIGN IN SHAPE AND SIZE
2	NEW SIGN FACES ON RELOCATED OR NEW FRAME. SEE ARCH GRAPHICS
3	NEW SIGN FACES ON EXISTING FRAME. SEE ARCH GRAPHICS
4	NEW SIGN FACE AND BACKER PLATE SECURED TO LIGHT POLE
5	NEW SIGN FACE AND BACKER PLATE ON CANOPY COLUMN. SEE ARCH GRAPHICS
6	NEW FLOOR MOUNTED TRASH RECEPTACLE PER CTA SPEC, SECURE TO SLAB OR PLATFORM STRUCTURE WITH STAINLESS STEEL BOLTS
7	NEW FRP TRACK ACCESS STAIR AND HANDRAIL.
8	NEW STAINLESS STEEL BENCH PER CTA SPEC, SECURE TO PLATFORM STRUCTURE WITH STAINLESS STEEL BOLTS
9	NEW SANDBOX PER CTA SPEC, SECURE TO PLATFORM STRUCTURE WITH STAINLESS STEEL BOLTS
10	NEW GAP FILLER WITH STAINLESS STEEL ENCLOSURE PER CTA SPEC, SECURE TO PLATFORM STRUCTURE WITH STAINLESS STEEL BOLTS

KEYNOTES

Number	Description
11	NEW GALVANIZED AND PAINTED WINDBREAK WITH GLAZING AND PERFORATED PANEL. PATCH WOOD DECKING AS REQUIRED AT PREVIOUS PLATFORM PENETRATIONS
12	SALVAGED AND RELOCATED LIGHT POLES (BOTH PLATFORMS-28 TOTAL) WITH BASE PLATES TO MATCH EXISTING DESIGN. PAINT TO MATCH EXISTING.
13	NEW CANOPY- CORRUGATED METAL DECK SYSTEM TO MATCH EXISTING WITH PREFINISHED ALUMINUM GUTTERS AND DOWNSPOUTS
14	NEW GALVANIZED AND PAINTED STEEL CANOPY COLUMN-MATCH EXISTING HISTORIC DESIGN. REFER TO BUILDING STRUCTURES DRAWINGS. PROVIDE NEW WOOD DECKING AND JOIST REINFORCEMENT AS REQUIRED TO MATCH EXISTING AND ACCOMMODATE NEW CANOPY COLUMNS
15	NEW STAINLESS STEEL FULL HEIGHT BARRIER AND GATE TO MATCH EXISTING DESIGN/HEIGHT

GENERAL NOTES - PLATFORM:

1. SIGN FRAMES OVER STREET SHALL RECEIVE SIGN FACES ON BOTH SIDES OF FRAME
2. EXISTING SIGN FRAMES TO REMAIN U.N.O.
3. EXISTING PLATFORM FURNITURE TO BE SALVAGED AND RETURNED TO CTA WEST SHOPS
4. ALL EXPANSION JOINTS SHALL BE MAINTAINED THROUGHOUT TRACK STRUCTURE AND PLATFORM

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PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	M. KINDELIN
CHECKED BY	JW
DESIGNED BY	JW
DRAWN BY	JW, JC, RS, HN

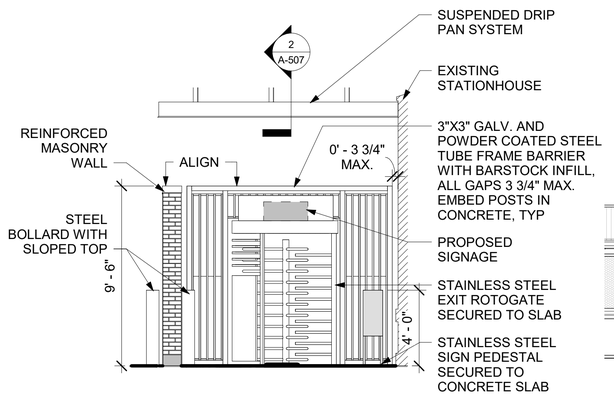
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PLATFORM ELEVATIONS- OUTBOUND

LSCAL | A-203

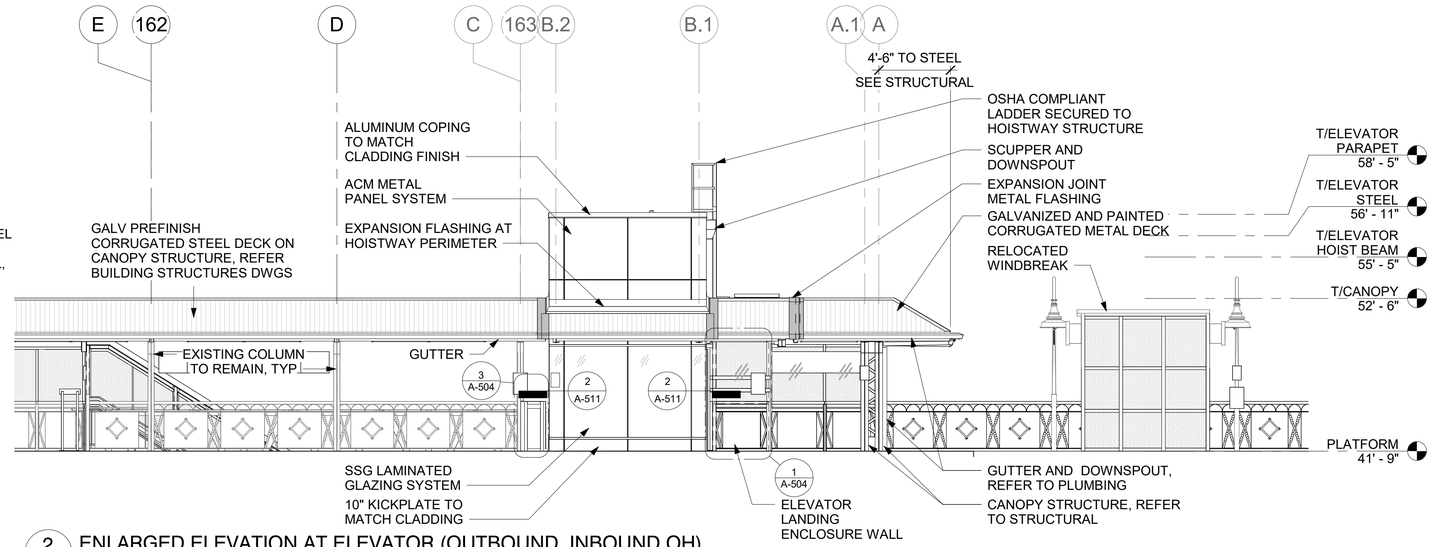
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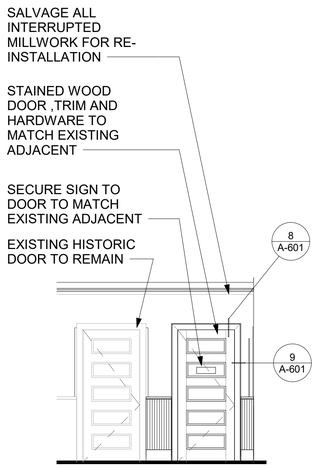
4 A-204 EXIT ROTOGATE-NORTH ELEVATION
SCALE: 1/4" = 1'-0"

0 2' 4' 8' 12'
SCALE: 1/4" = 1'-0"



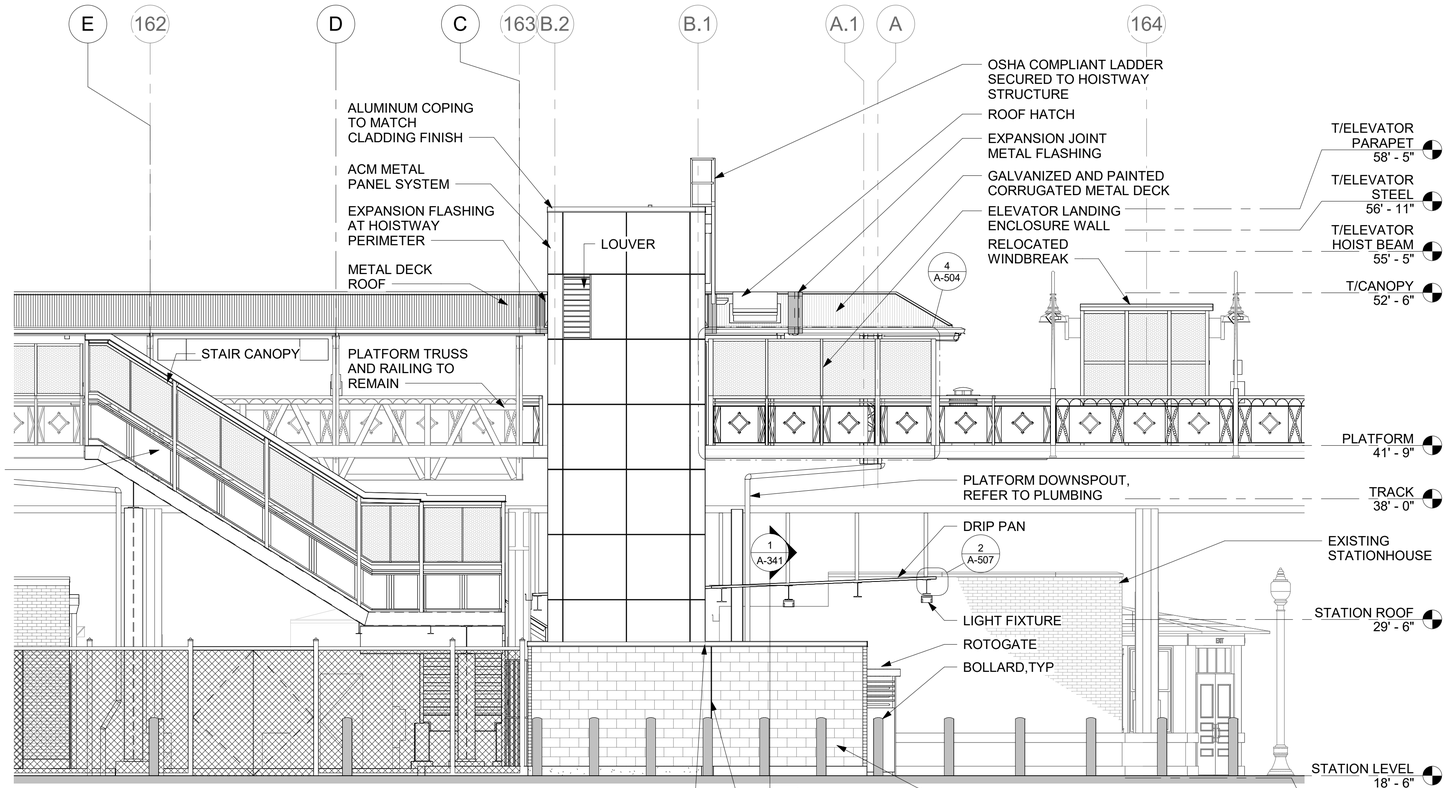
2 A-204 ENLARGED ELEVATION AT ELEVATOR (OUTBOUND, INBOUND OH)
SCALE: 3/16" = 1'-0"

0 4' 8' 12' 16'
SCALE: 3/16" = 1'-0"



3 A-204 ELEVATION INTERIOR DOOR
SCALE: 1/4" = 1'-0"

0 2' 4' 8' 12'
SCALE: 1/4" = 1'-0"



1 A-204 ENLARGED ELEVATION AT ALLEY
SCALE: 3/16" = 1'-0"

0 4' 8' 12' 16'
SCALE: 3/16" = 1'-0"

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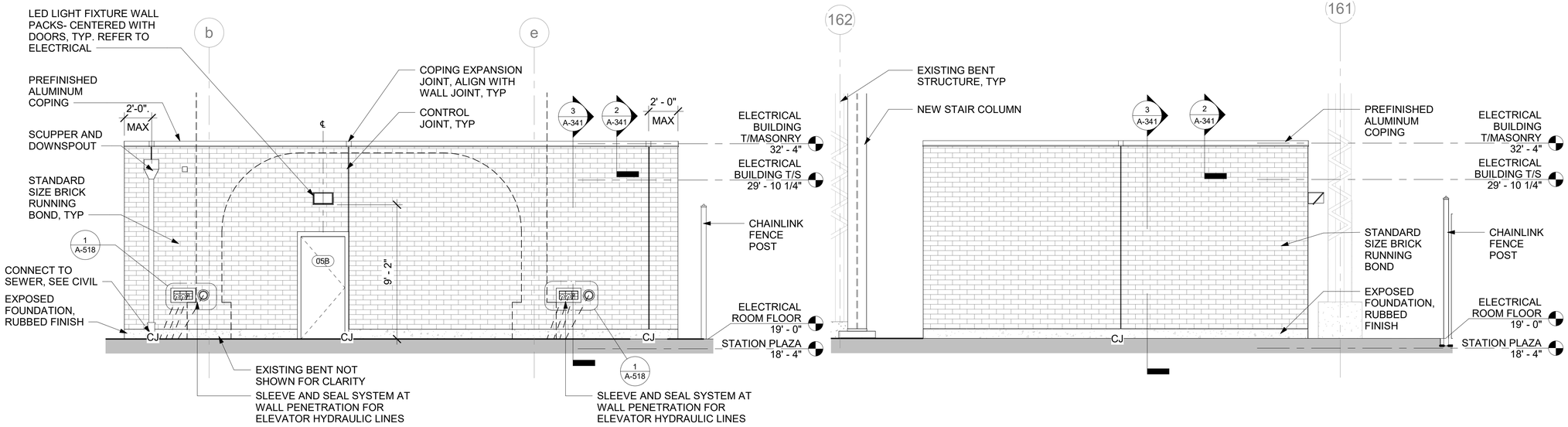
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ENLARGED ELEVATIONS

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VOLUME: 1 OF 1

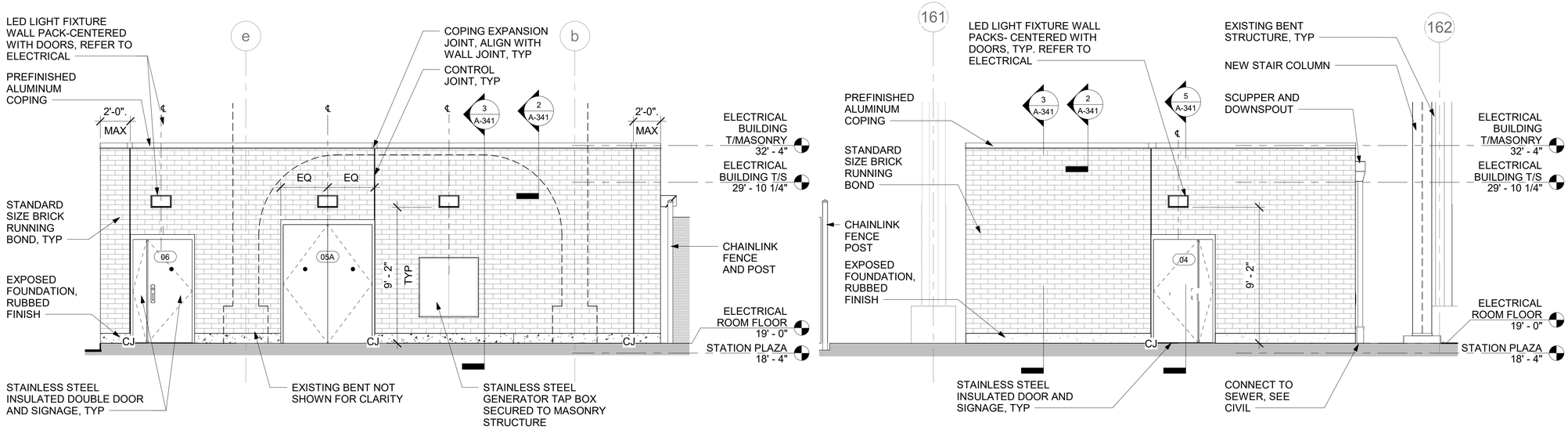
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3 A-211 ELECTRICAL BUILDING ELEVATION NORTH
SCALE: 1/4" = 1'-0"
0 2' 4' 8' 12'
SCALE: 1/4" = 1'-0"

2 A-211 ELECTRICAL BUILDING ELEVATION WEST
SCALE: 1/4" = 1'-0"
0 2' 4' 8' 12'
SCALE: 1/4" = 1'-0"



4 A-211 ELECTRICAL BUILDING ELEVATION SOUTH
SCALE: 1/4" = 1'-0"
0 2' 4' 8' 12'
SCALE: 1/4" = 1'-0"

1 A-211 ELECTRICAL BUILDING ELEVATION EAST
SCALE: 1/4" = 1'-0"
0 2' 4' 8' 12'
SCALE: 1/4" = 1'-0"

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ELECTRICAL AND MACHINE ROOM BUILDING ELEVATIONS

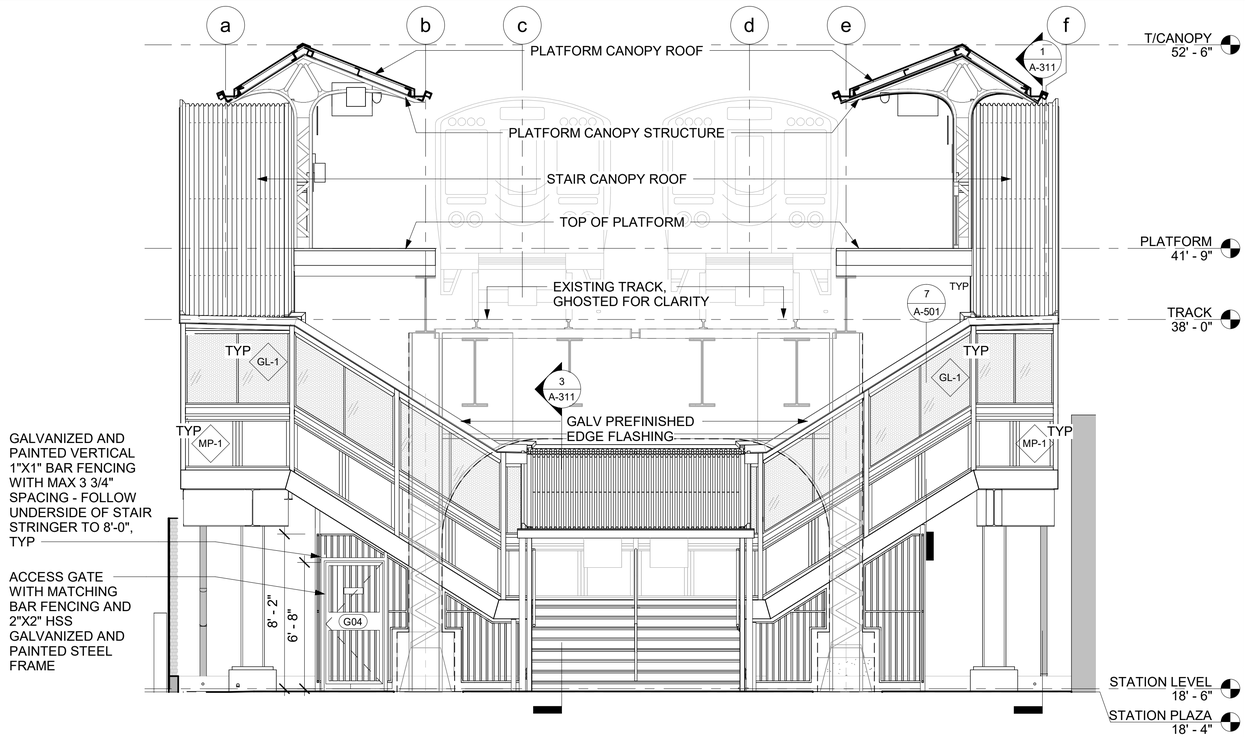
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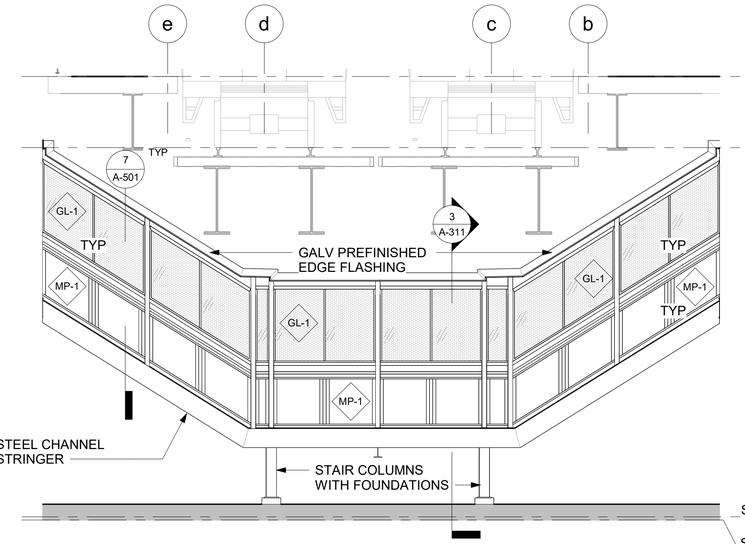
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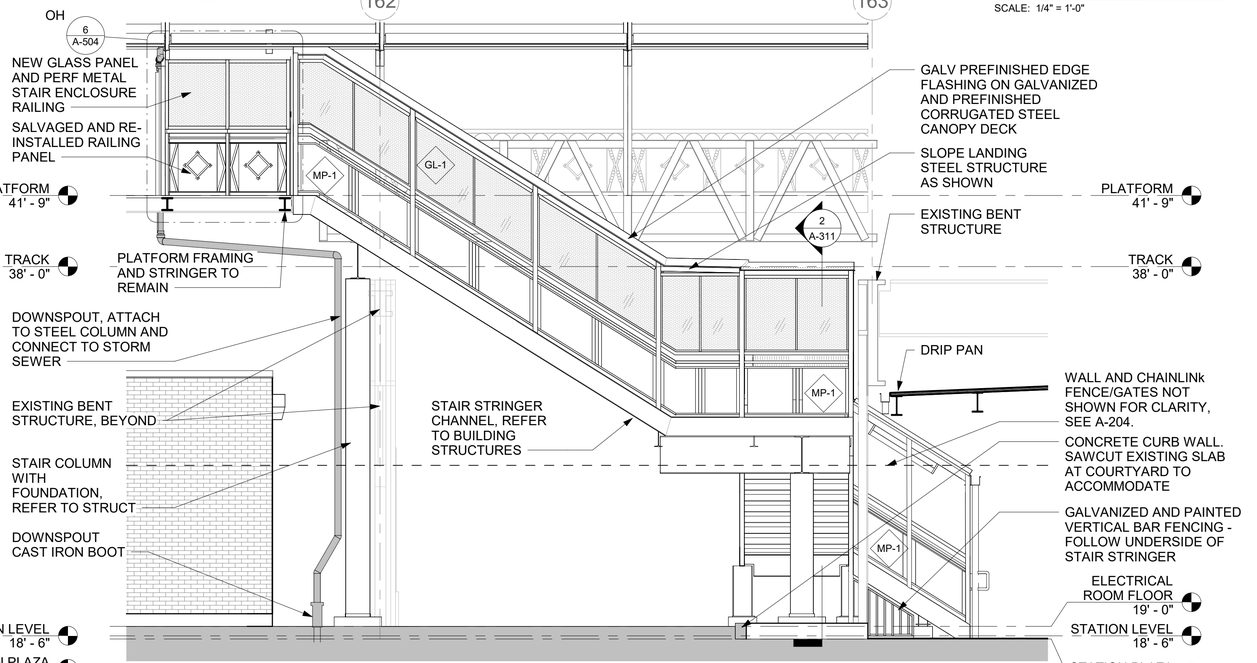
GL-1	STAIR ENCLOSURE GLAZING - 1/4" POLYCARBONATE WITH PERFORATED ALUM. PANEL AT SIDE(S) INDICATED
MP-1	STAIR ENCLOSURE METAL PANEL - PTD. GALV. STL PANEL WITH 2" RETURN @ ALL 4 SIDES



2 A-221 STAIR # 1 ELEVATION- LOOKING SOUTH
SCALE: 1/4" = 1'-0"



3 A-221 STAIR #1 ELEVATION-LOOKING NORTH
SCALE: 1/4" = 1'-0"



1 A-221 STAIR #1 OUTBOUND ELEVATION (INBOUND OPP. HAND)
SCALE: 1/4" = 1'-0"

0 2' 4' 8' 12'
SCALE: 1/4" = 1'-0"

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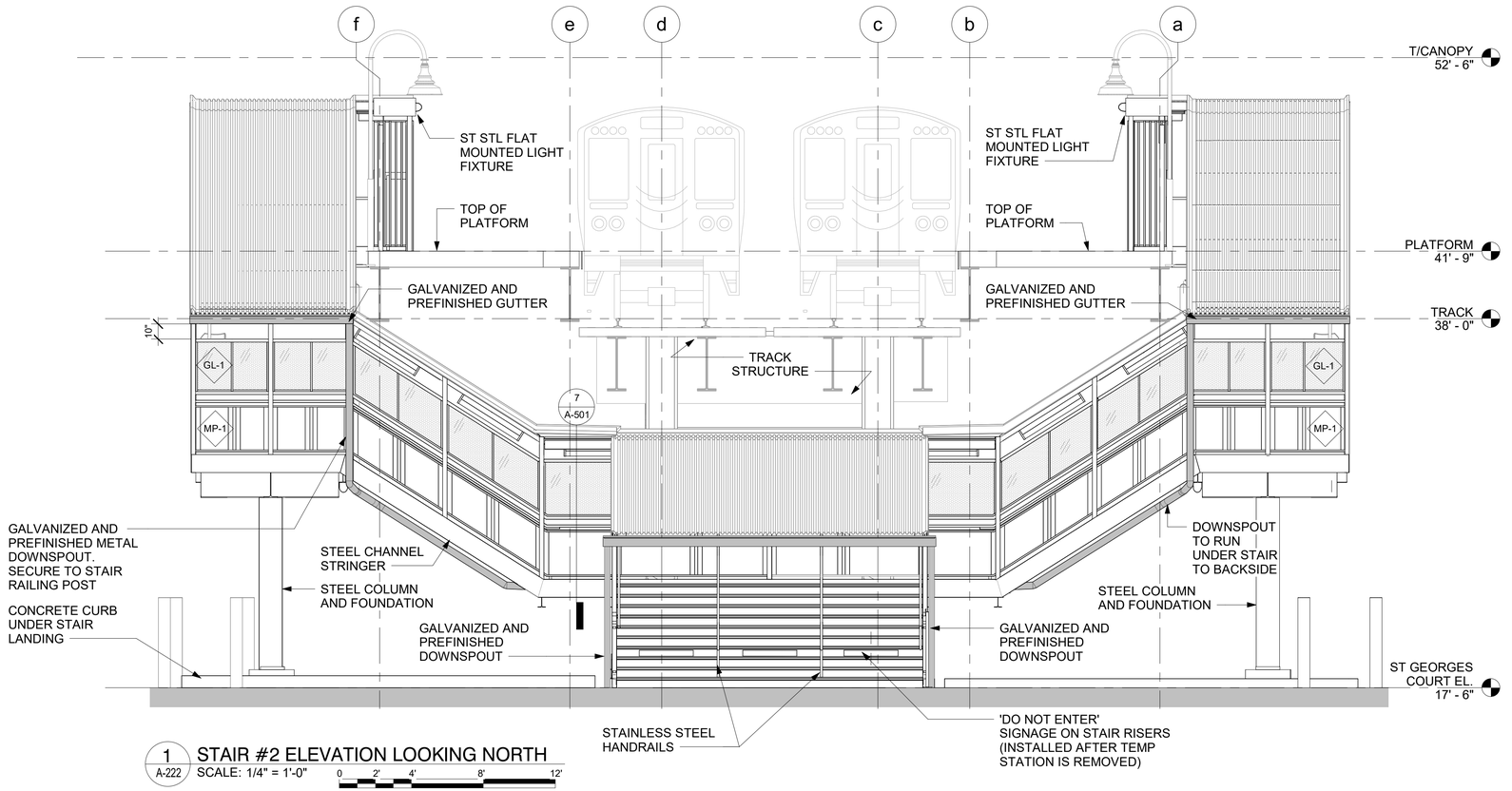
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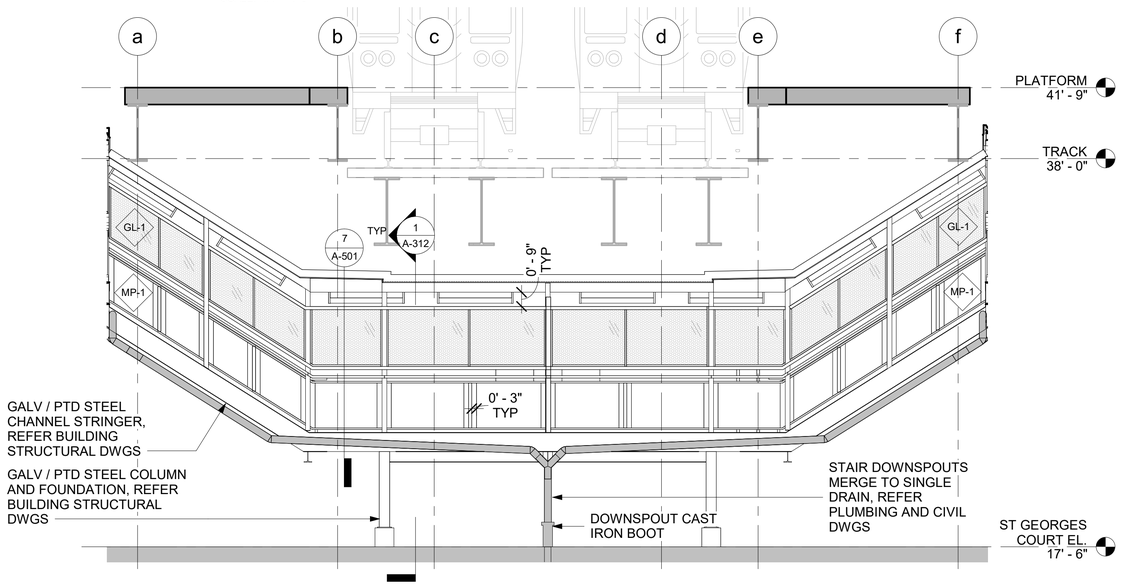
STAIR 1 ELEVATIONS

LSCAL A-221
VOLUME: 1 OF 1

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1 A-222 STAIR #2 ELEVATION LOOKING NORTH
SCALE: 1/4" = 1'-0"
0 2' 4' 8' 12'
SCALE: 1/4" = 1'-0"



2 A-222 STAIR #2 ELEVATION LOOKING SOUTH
SCALE: 1/4" = 1'-0"
0 2' 4' 8' 12'
SCALE: 1/4" = 1'-0"

GL-1	STAIR ENCLOSURE GLAZING - 1/4" POLYCARBONATE WITH PERFORATED ALUM. PANEL AT SIDE(S) INDICATED
MP-1	STAIR ENCLOSURE METAL PANEL - PTD. GALV. STL PANEL WITH 2" RETURN @ ALL 4 SIDES

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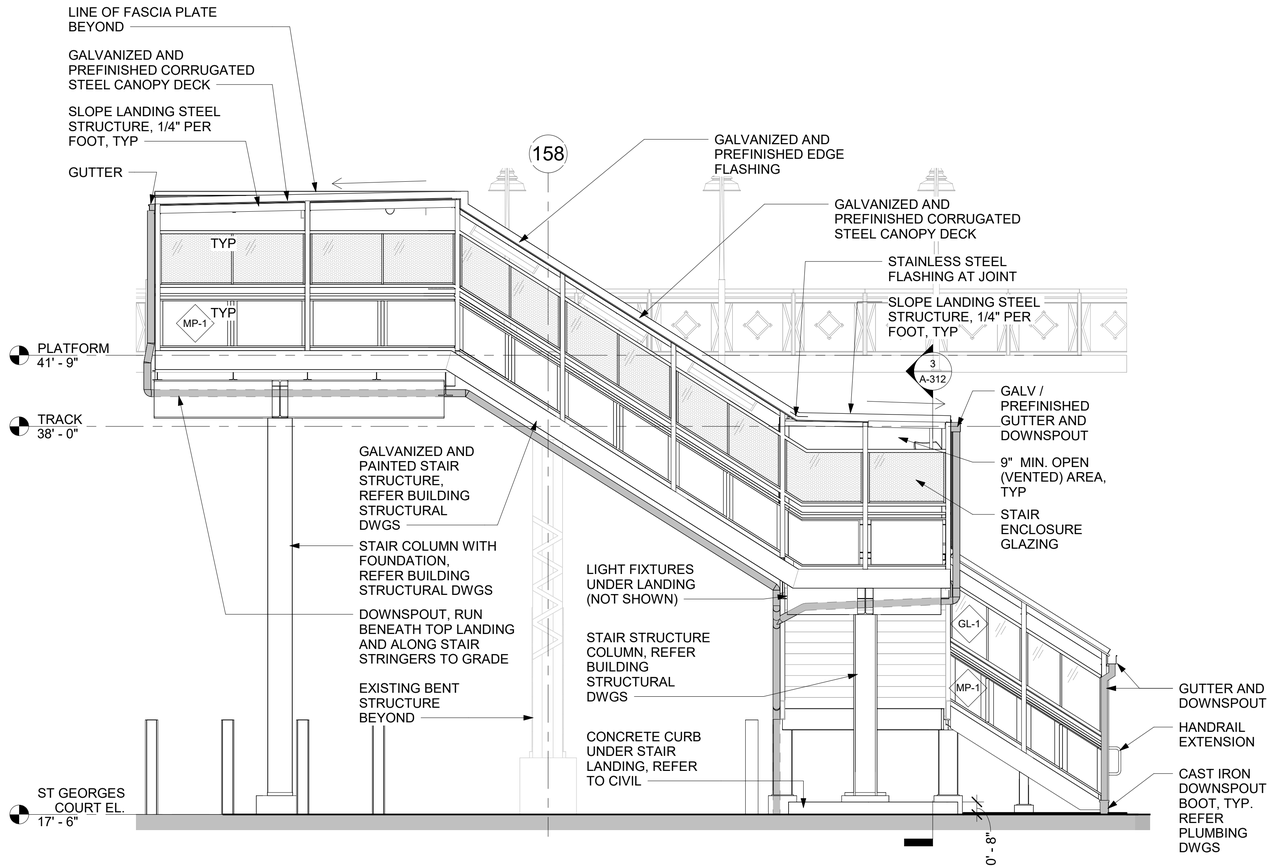
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STAIR 2 ELEVATIONS

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VOLUME: 1 OF 1

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1 / A-223 STAIR #2 INBOUND (OUTBOUND OPP. HAND)
SCALE: 1/4" = 1'-0"

0 2' 4' 8' 12'
SCALE: 1/4" = 1'-0"

GL-1	STAIR ENCLOSURE GLAZING - 1/4" POLYCARBONATE WITH PERFORATED ALUM. PANEL AT SIDE(S) INDICATED
MP-1	STAIR ENCLOSURE METAL PANEL - PTD. GALV. STL PANEL WITH 2" RETURN @ ALL 4 SIDES

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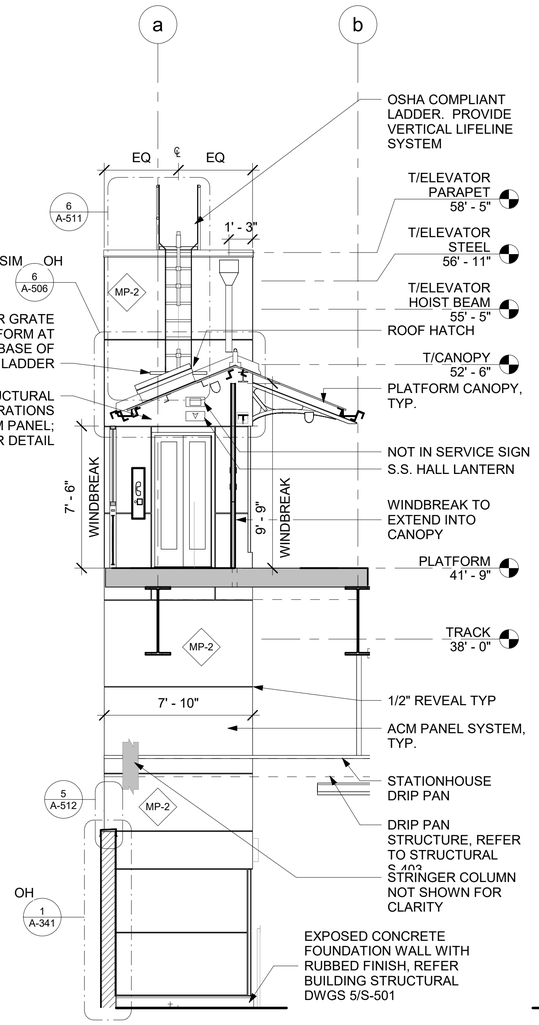
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STAIR 2 ELEVATIONS

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VOLUME: 1 OF 1

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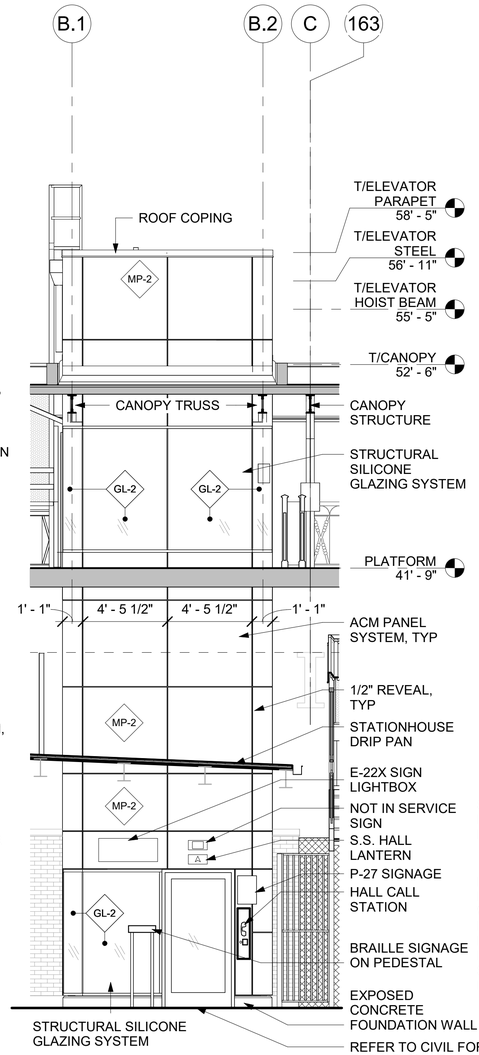


4 A-231 OUTBOUND ELEVATOR ELEVATION - NORTH

SCALE: 1/4" = 1'-0"

0 2' 4' 8' 12'

SCALE: 1/4" = 1'-0"

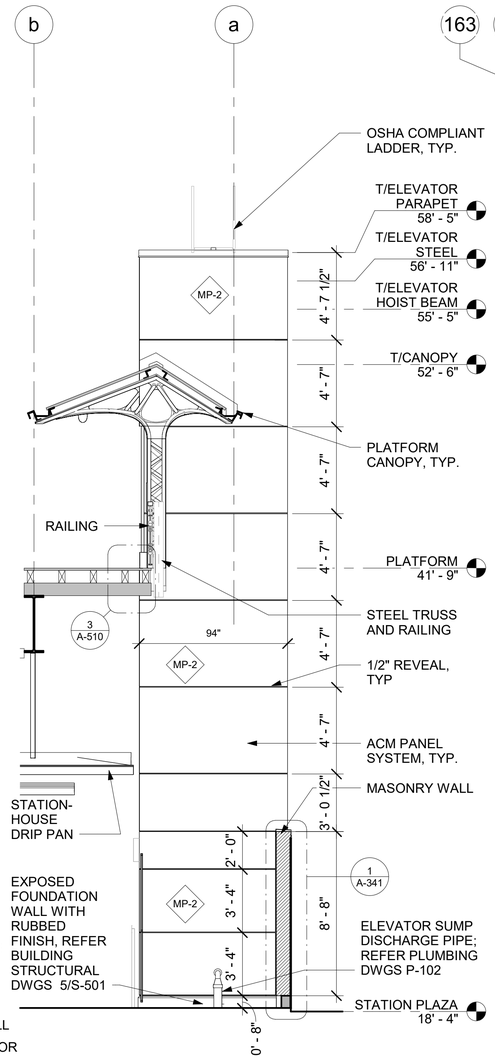


3 A-231 OUTBOUND ELEVATOR ELEVATION - WEST

SCALE: 1/4" = 1'-0"

0 2' 4' 8' 12'

SCALE: 1/4" = 1'-0"

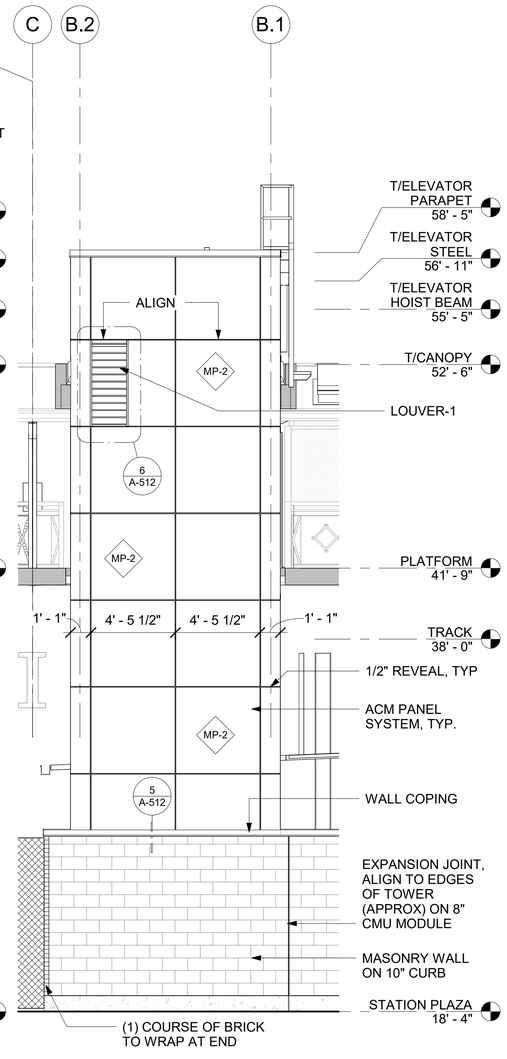


2 A-231 OUTBOUND ELEVATOR ELEVATION - SOUTH

SCALE: 1/4" = 1'-0"

0 2' 4' 8' 12'

SCALE: 1/4" = 1'-0"



1 A-231 OUTBOUND ELEVATOR ELEVATION - EAST

SCALE: 1/4" = 1'-0"

0 2' 4' 8' 12'

SCALE: 1/4" = 1'-0"

GL-2	ELEVATOR ENCLOSURE GLAZING - CLEAR LAMINATED WITH ANTI-GRAFFITI FILM
MP-2	ELEVATOR ENCLOSURE METAL PANEL

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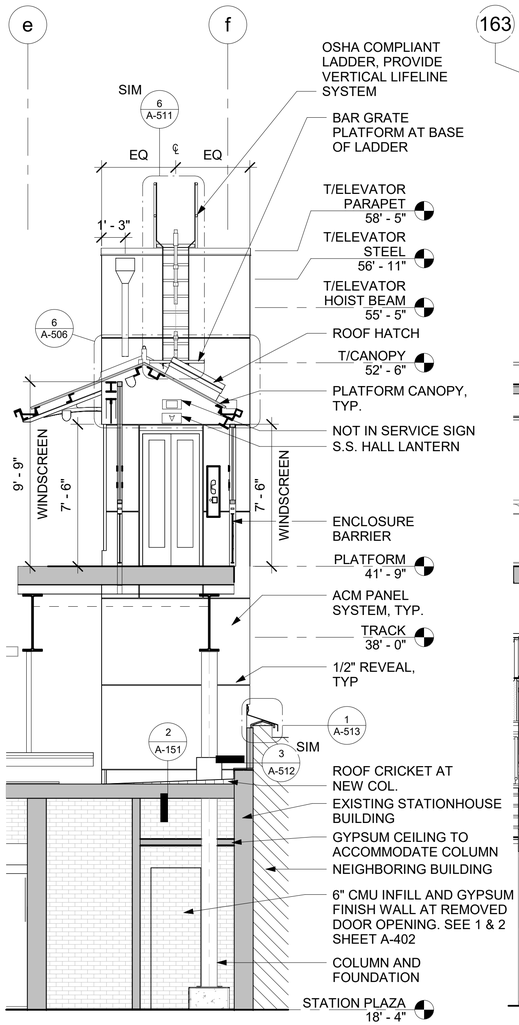
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OUTBOUND ELEVATOR TOWER ELEVATIONS

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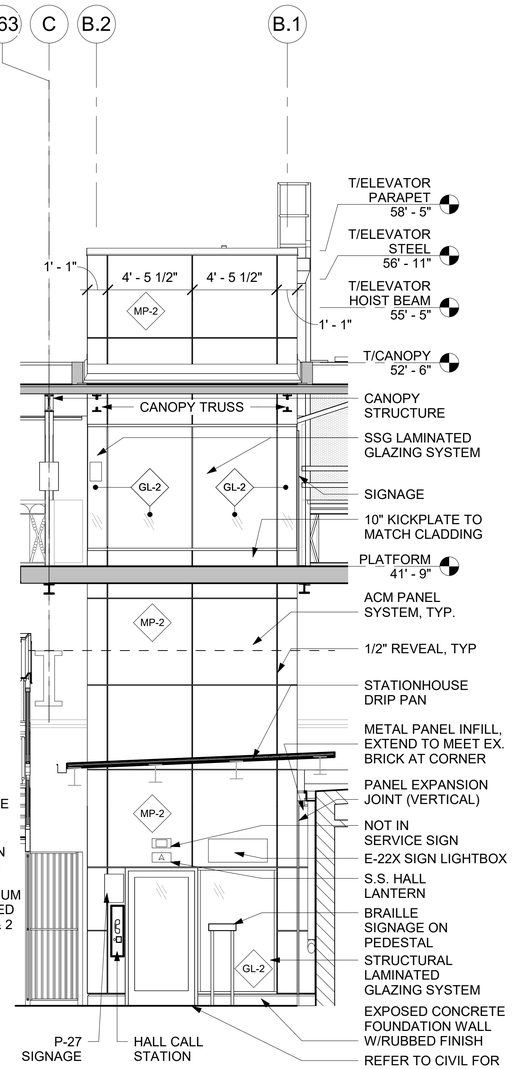


4 A-232 INBOUND ELEVATOR ELEVATION - NORTH

SCALE: 1/4" = 1'-0"

0 2' 4' 8' 12'

SCALE: 1/4" = 1'-0"

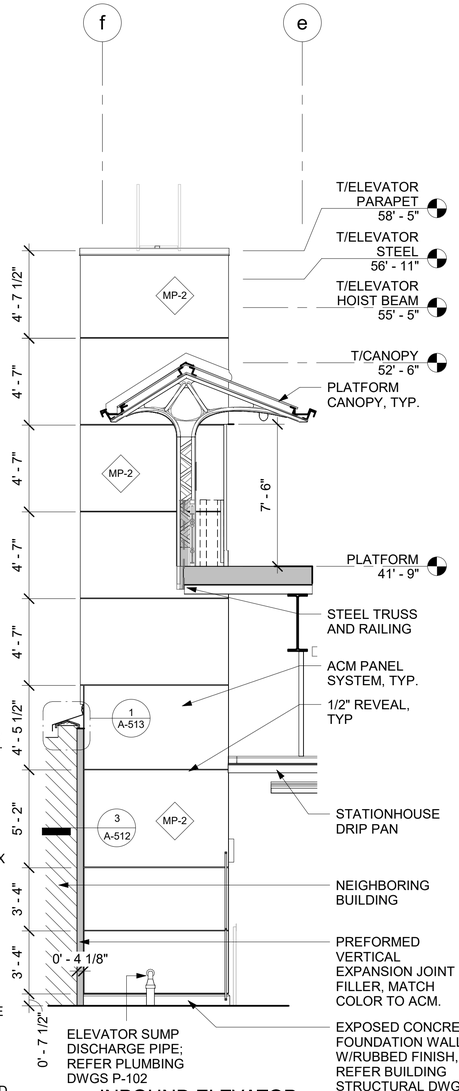


3 A-232 INBOUND ELEVATOR ELEVATION - EAST

SCALE: 1/4" = 1'-0"

0 2' 4' 8' 12'

SCALE: 1/4" = 1'-0"

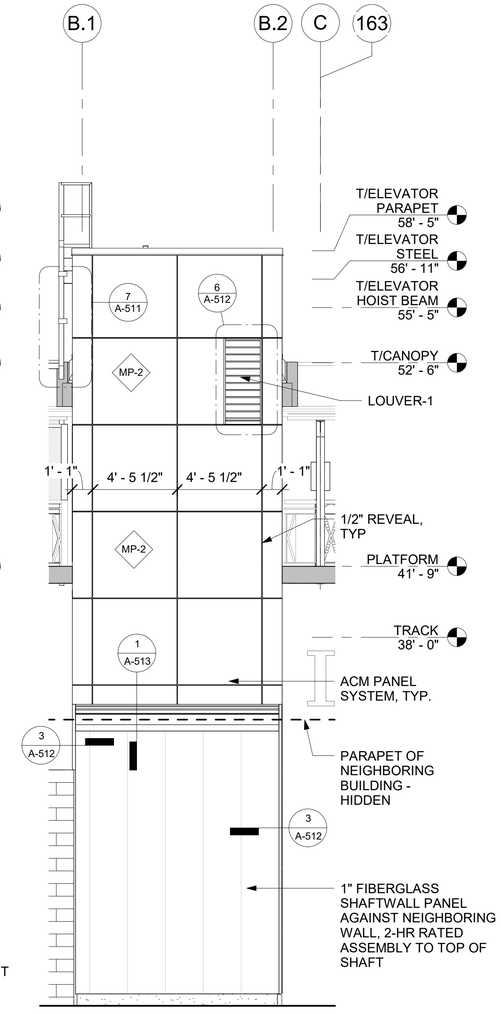


2 A-232 INBOUND ELEVATOR ELEVATION - SOUTH

SCALE: 1/4" = 1'-0"

0 2' 4' 8' 12'

SCALE: 1/4" = 1'-0"



1 A-232 INBOUND ELEVATOR ELEVATION - WEST

SCALE: 1/4" = 1'-0"

0 2' 4' 8' 12'

SCALE: 1/4" = 1'-0"

GL-2	ELEVATOR ENCLOSURE GLAZING - CLEAR LAMINATED WITH ANTI-GRAFFITI FILM
MP-2	ELEVATOR ENCLOSURE METAL PANEL

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PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	M. KINDELIN
CHECKED BY	JW
DESIGNED BY	JW
DRAWN BY	JW, JC, RS, HN

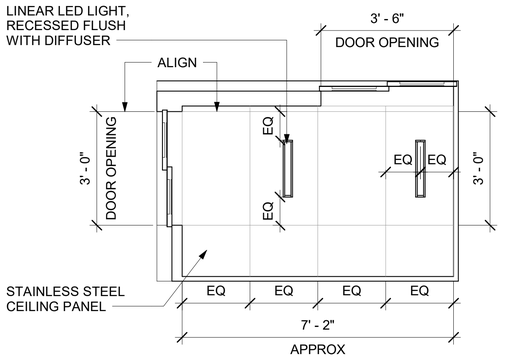
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INBOUND ELEVATOR TOWER ELEVATIONS

LSCAL A-232

VOLUME: 1 OF 1

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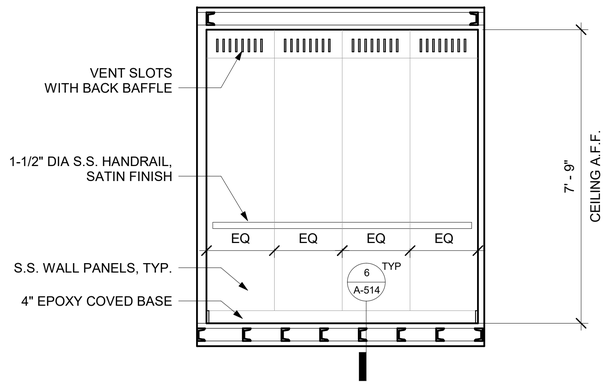


2 A-241 ELEVATOR CAB RCP

SCALE: 1/2" = 1'-0"

0 1' 2' 4' 6'

SCALE: 1/2" = 1'-0"

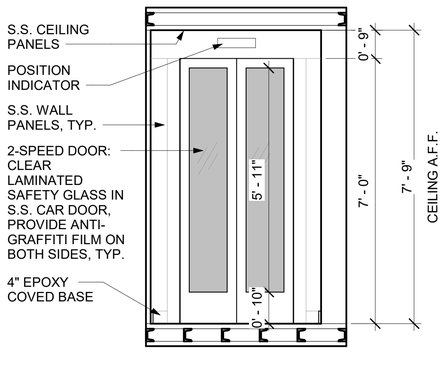


4 A-241 ELEVATOR CAB INTERIOR TYP SOLID WALL

SCALE: 1/2" = 1'-0"

0 1' 2' 4' 6'

SCALE: 1/2" = 1'-0"

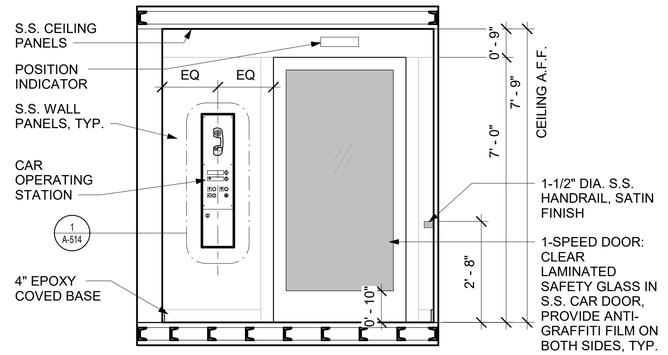


3 A-241 ELEVATOR CAB INTERIOR AT DOOR - SHORT SIDE

SCALE: 1/2" = 1'-0"

0 1' 2' 4' 6'

SCALE: 1/2" = 1'-0"



1 A-241 ELEVATOR CAB INTERIOR AT DOOR - LONG SIDE

SCALE: 1/2" = 1'-0"

0 1' 2' 4' 6'

SCALE: 1/2" = 1'-0"

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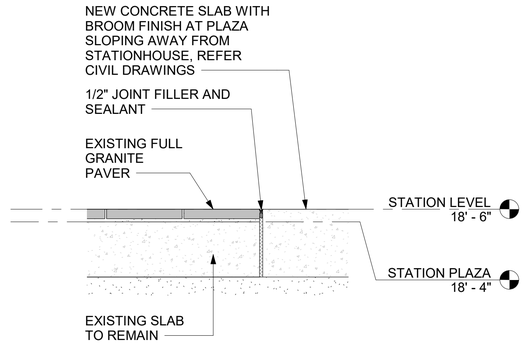
ELEVATOR CAB ELEVATIONS

LSCAL | A-241

VOLUME: 1 OF 1

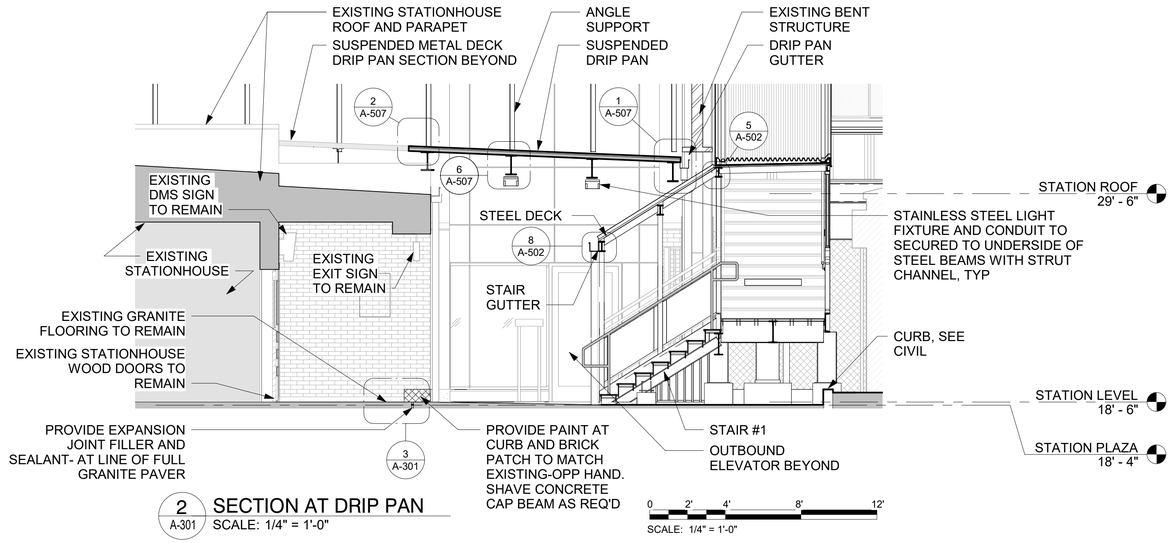
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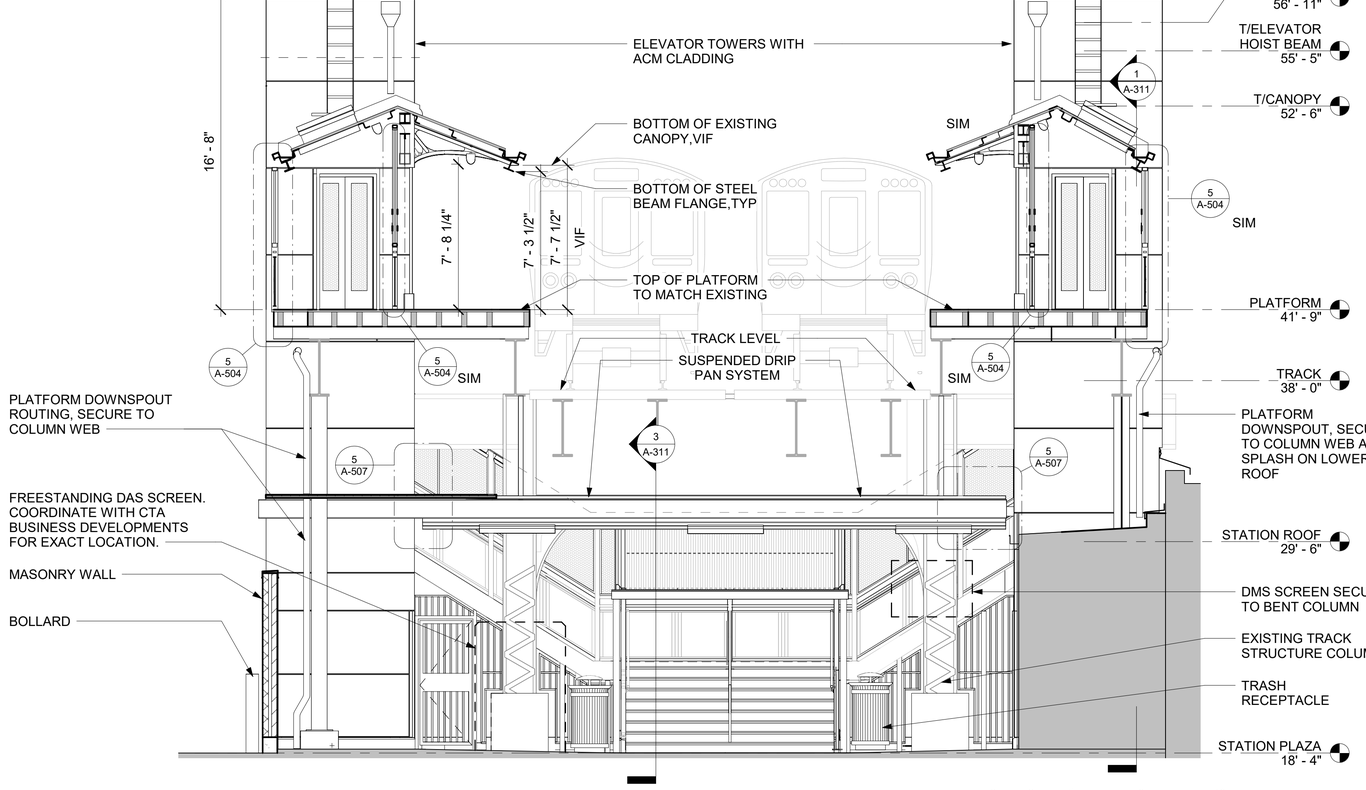
3 A-301 CONCRETE SLAB AT GRANITE JOINT
SCALE: 1" = 1'-0"

0 1' 2' 3'
SCALE: 1" = 1'-0"



2 A-301 SECTION AT DRIP PAN
SCALE: 1/4" = 1'-0"

0 2' 4' 8' 12'
SCALE: 1/4" = 1'-0"



1 A-301 SECTION VIEW AT MAIN STAIR-LOOKING SOUTH
SCALE: 1/4" = 1'-0"

0 2' 4' 8' 12'
SCALE: 1/4" = 1'-0"

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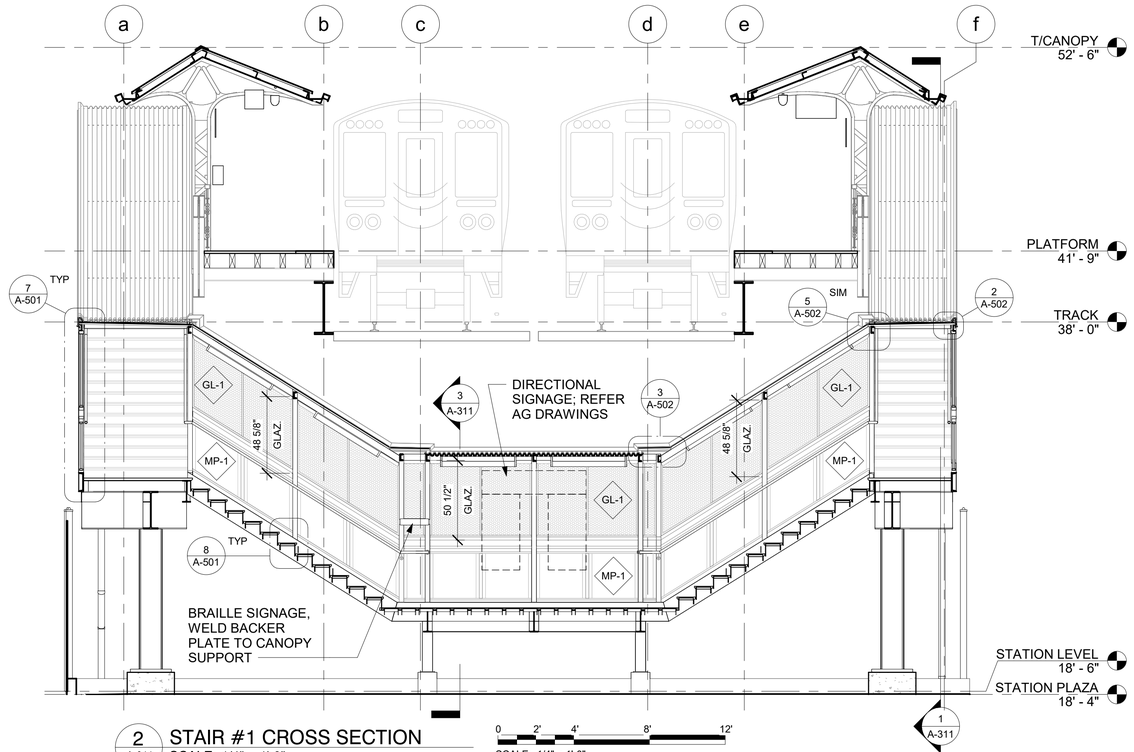
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SECTIONS

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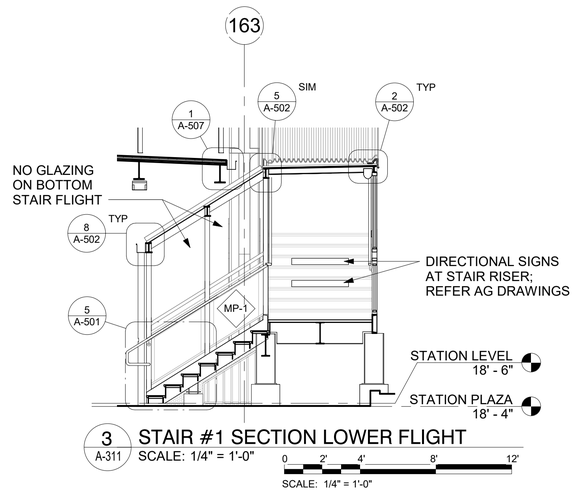
VOLUME: 1 OF 1

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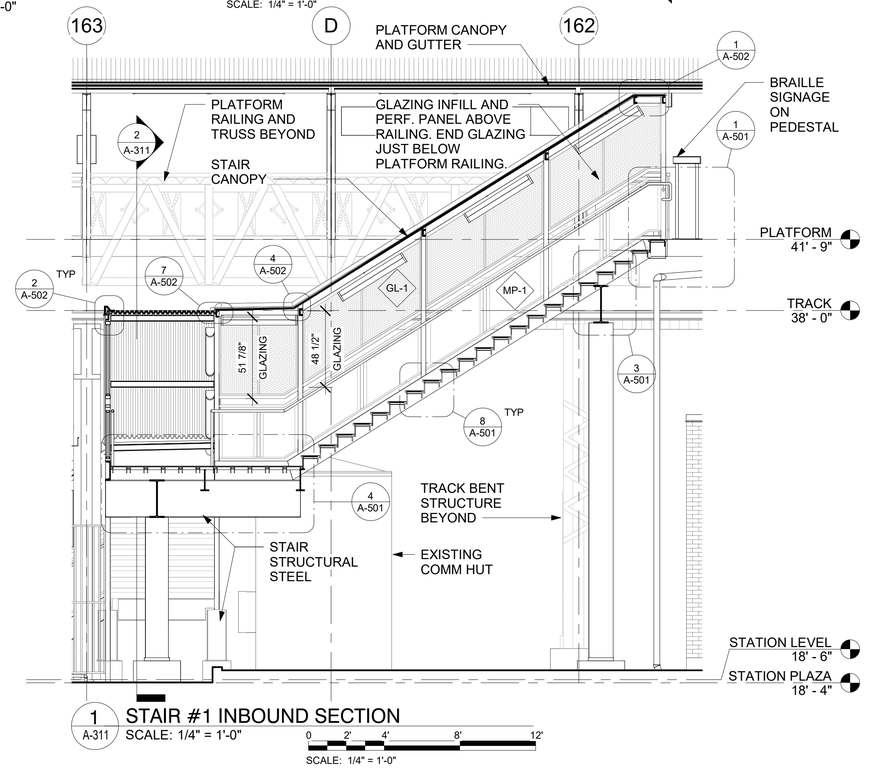
2 A-311 STAIR #1 CROSS SECTION
SCALE: 1/4" = 1'-0"

0 2' 4' 8' 12'
SCALE: 1/4" = 1'-0"



3 A-311 STAIR #1 SECTION LOWER FLIGHT
SCALE: 1/4" = 1'-0"

0 2' 4' 8' 12'
SCALE: 1/4" = 1'-0"



1 A-311 STAIR #1 INBOUND SECTION
SCALE: 1/4" = 1'-0"

0 2' 4' 8' 12'
SCALE: 1/4" = 1'-0"

GL-1	STAIR ENCLOSURE GLAZING - 1/4" POLYCARBONATE WITH PERFORATED ALUM. PANEL AT SIDE(S) INDICATED
MP-1	STAIR ENCLOSURE METAL PANEL - PTD. GALV. STL PANEL WITH 2" RETURN @ ALL 4 SIDES

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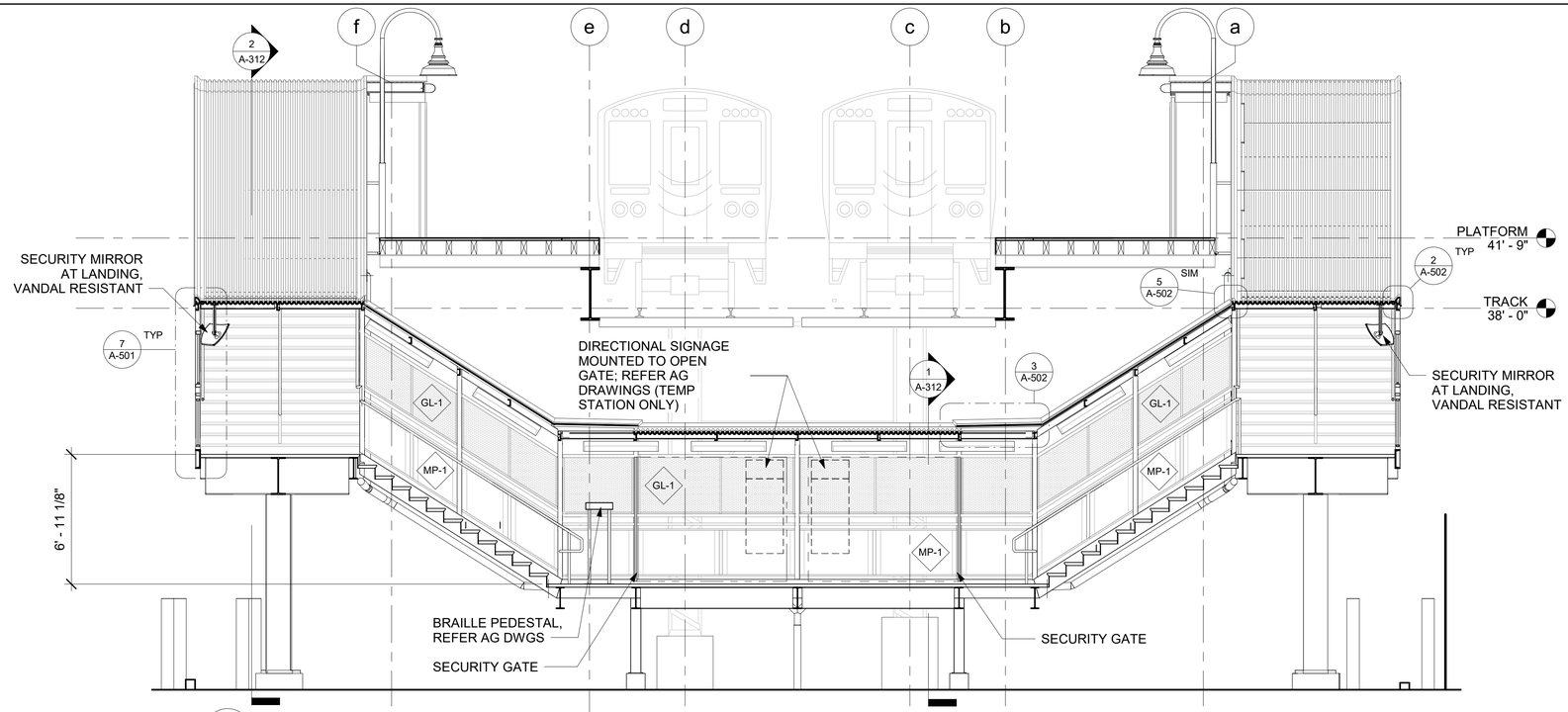
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STAIR 1 SECTIONS

LSCAL | A-311
VOLUME: 1 OF 1

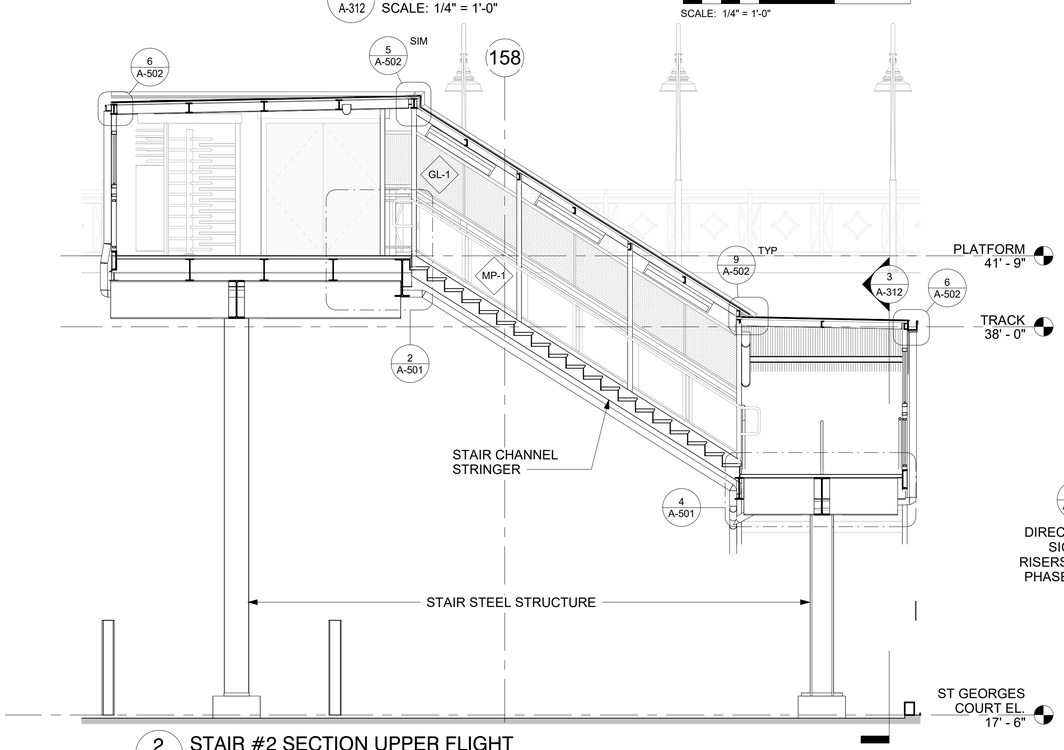
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GL-1	STAIR ENCLOSURE GLAZING - 1/4" POLYCARBONATE WITH PERFORATED ALUM. PANEL AT SIDE(S) INDICATED
MP-1	STAIR ENCLOSURE METAL PANEL - PTD. GALV. STL PANEL WITH 2" RETURN @ ALL 4 SIDES



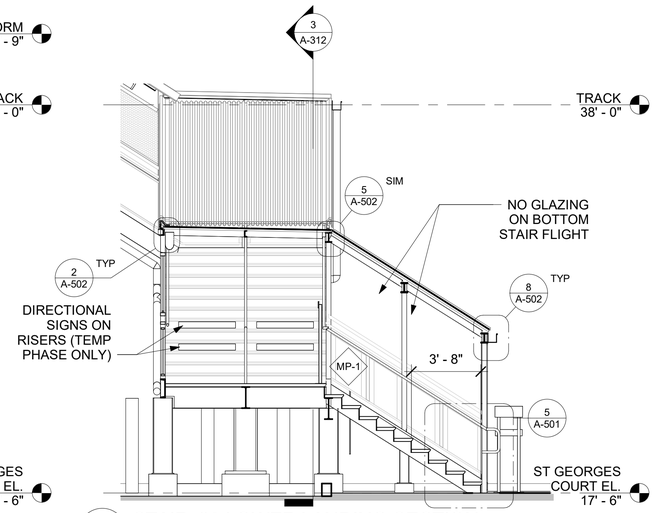
3 A-312 STAIR #2 CROSS SECTION
SCALE: 1/4" = 1'-0"

0 2' 4' 8' 12'
SCALE: 1/4" = 1'-0"



2 A-312 STAIR #2 SECTION UPPER FLIGHT
SCALE: 1/4" = 1'-0"

0 2' 4' 8' 12'
SCALE: 1/4" = 1'-0"



1 A-312 STAIR #2 LOWER LANDING SECTION
SCALE: 1/4" = 1'-0"

0 2' 4' 8' 12'
SCALE: 1/4" = 1'-0"

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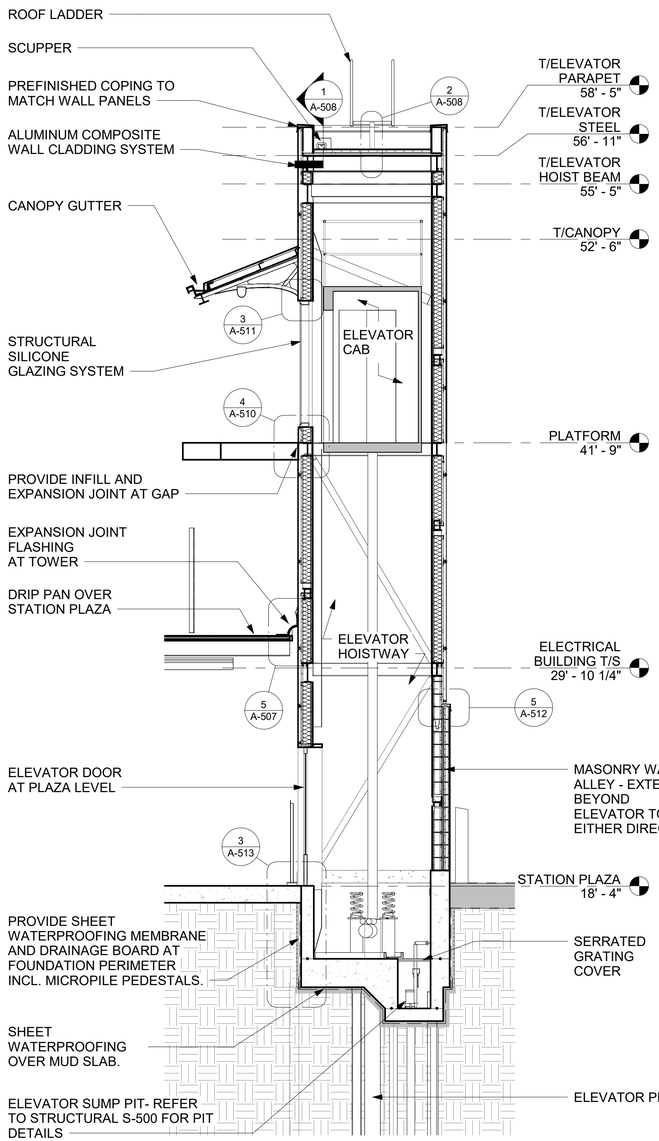
STAIR 2 SECTIONS

LSCAL | A-312

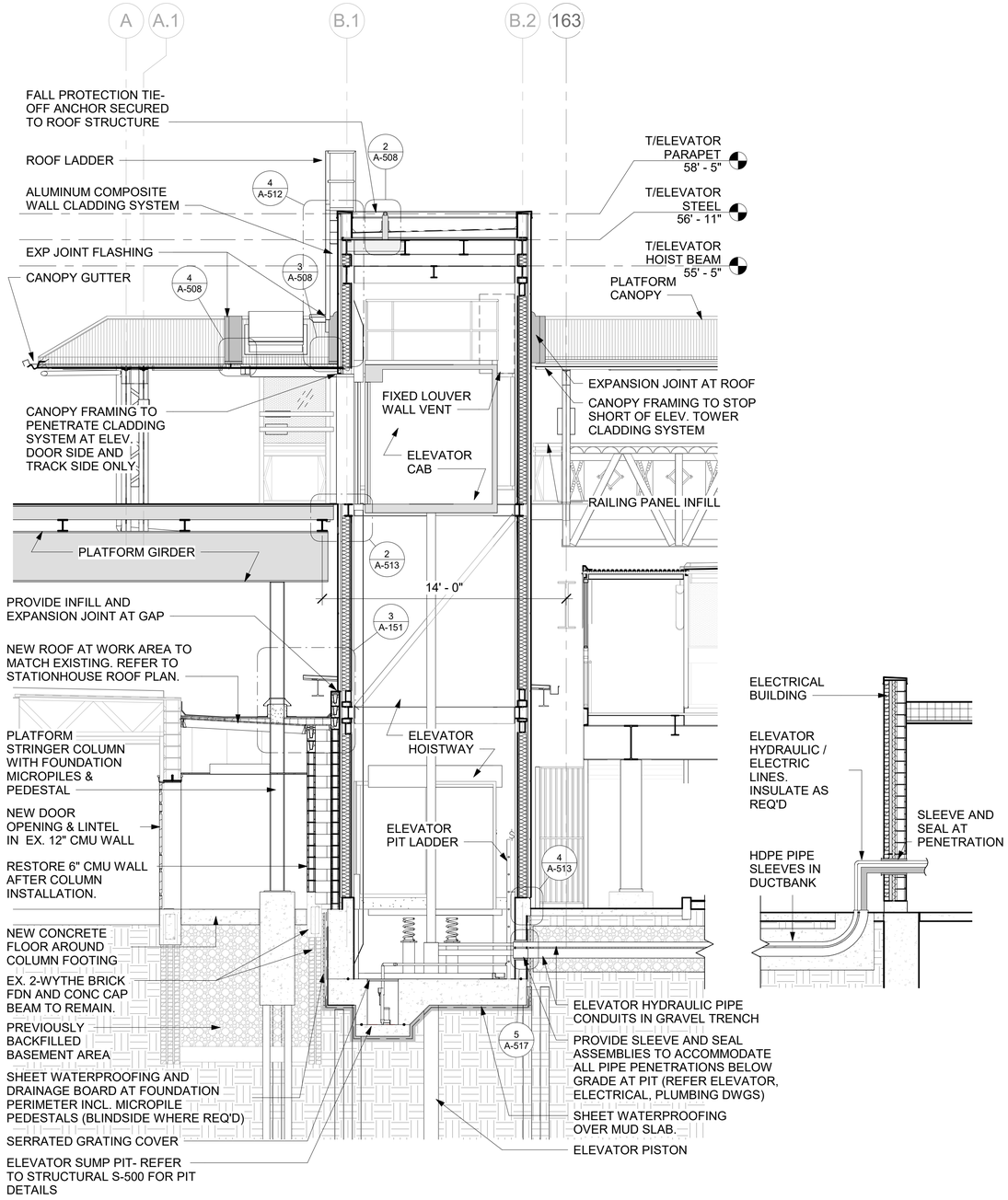
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3 A-321 OUTBOUND ELEVATOR #1 - SECTION ACROSS PLATFORM
SCALE: 1/4" = 1'-0"
0 2' 4' 8' 12'
SCALE: 1/4" = 1'-0"



2 A-321 INBOUND ELEVATOR #2 - SECTION ALONG PLATFORM
SCALE: 1/4" = 1'-0"
0 2' 4' 8' 12'
SCALE: 1/4" = 1'-0"

1 A-321 HANDHOLE SECTION
SCALE: 1/4" = 1'-0"
0 2' 4' 8' 12'
SCALE: 1/4" = 1'-0"

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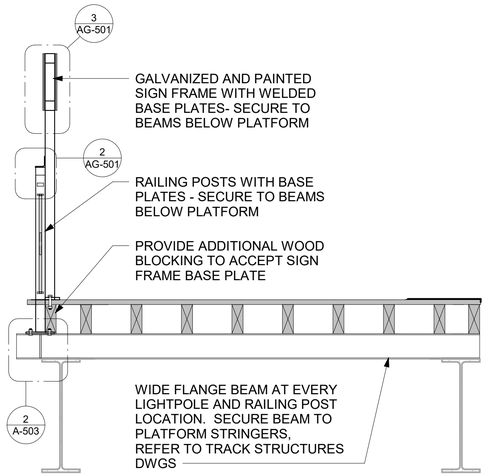
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ELEVATOR TOWER SECTIONS

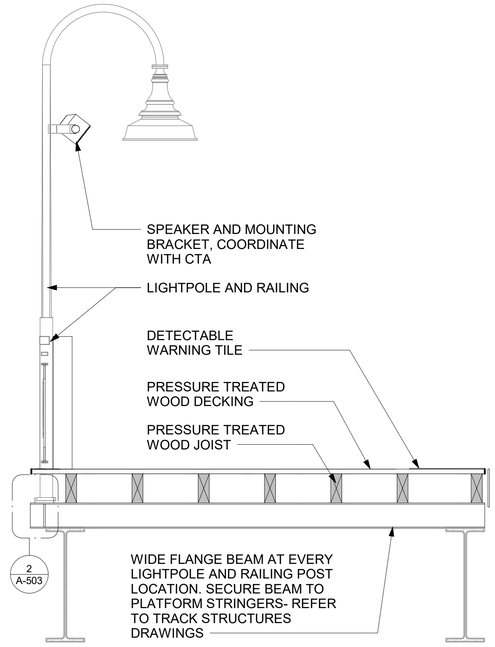
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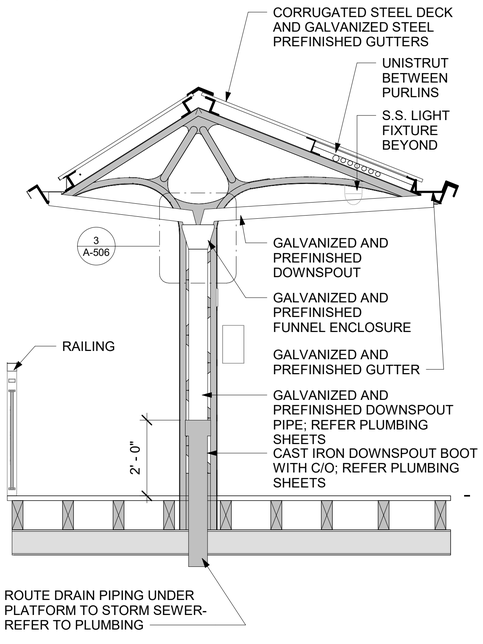
5 A-331 SECTION AT (P9) SIGN FRAME
SCALE: 1/2" = 1'-0"

0 1' 2' 4' 6'
SCALE: 1/2" = 1'-0"



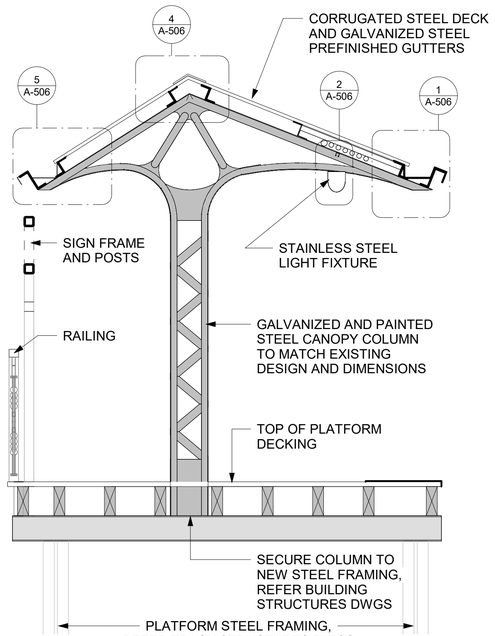
3 A-331 PLATFORM SECTION AT LIGHTPOLE
SCALE: 1/2" = 1'-0"

0 1' 2' 4' 6'
SCALE: 1/2" = 1'-0"



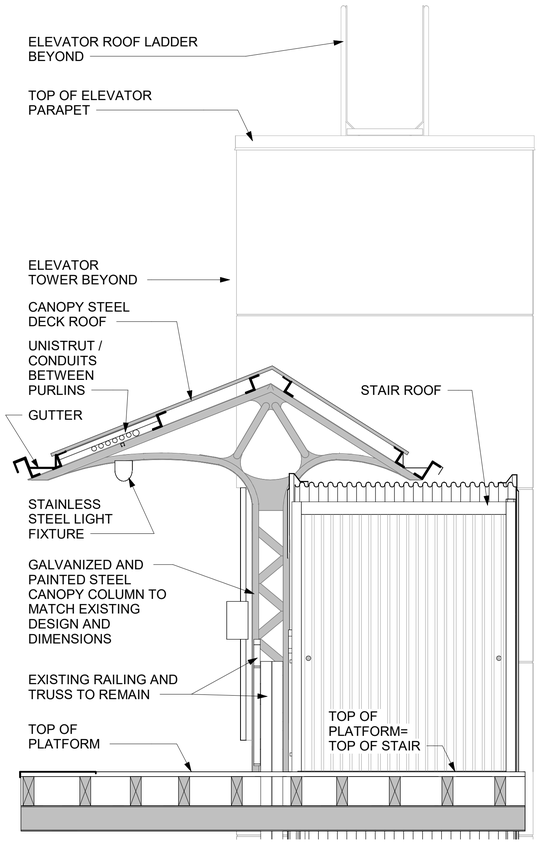
4 A-331 PLATFORM SECTION AT DOWNSPOUT, TYP
SCALE: 1/2" = 1'-0"

0 1' 2' 4' 6'
SCALE: 1/2" = 1'-0"



2 A-331 PLATFORM SECTION AT CANOPY
SCALE: 1/2" = 1'-0"

0 1' 2' 4' 6'
SCALE: 1/2" = 1'-0"



1 A-331 CANOPY AT STAIR TRANSITION-OUTBOUND
SCALE: 1/2" = 1'-0"

0 1' 2' 4' 6'
SCALE: 1/2" = 1'-0"

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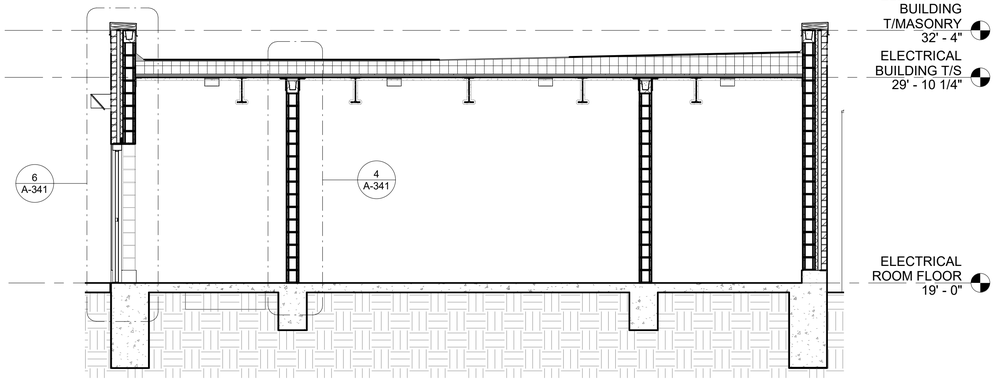
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IN CHARGE	I. COLLETTI
APPROVED BY	M. KINDELIN
CHECKED BY	JW
DESIGNED BY	JW
DRAWN BY	JW, JC, RS, HN

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ENLARGED PLATFORM SECTIONS

LSCAL | A-331
VOLUME: 1 OF 1

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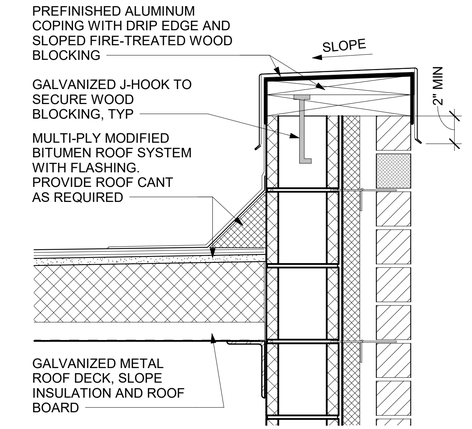


5 A-341 ELECTRICAL BUILDING SECTION

SCALE: 1/4" = 1'-0"

0 2' 4' 8' 12'

SCALE: 1/4" = 1'-0"

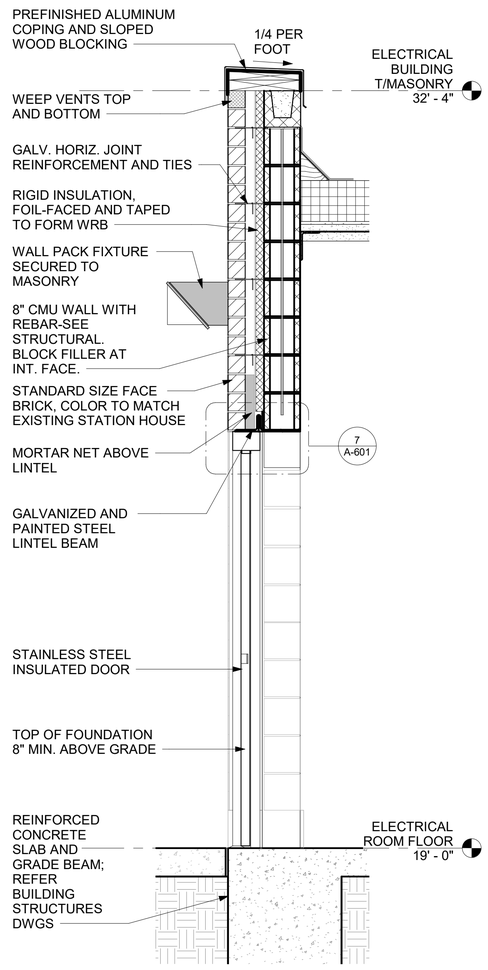


2 A-341 ROOF COPING DETAIL

SCALE: 1 1/2" = 1'-0"

0 1/2' 1' 1 1/2' 2'

SCALE: 1 1/2" = 1'-0"

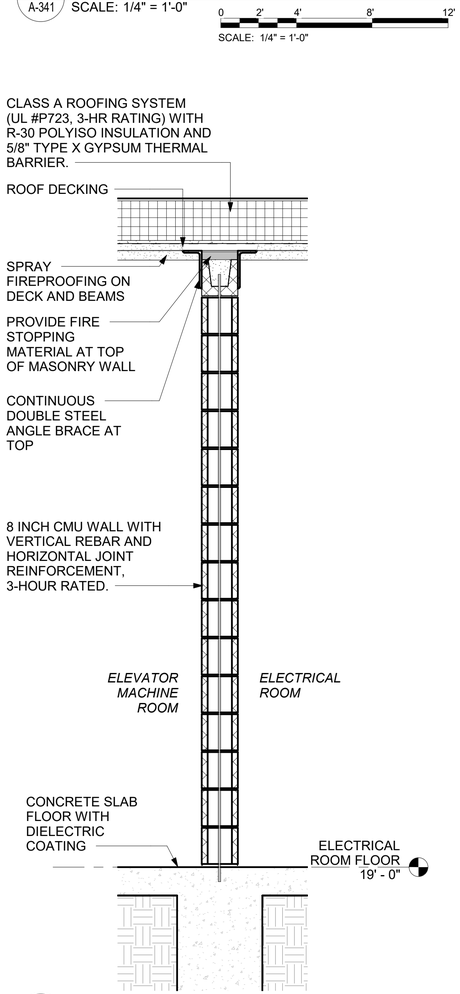


6 A-341 WALL SECTION ELEC BLDG EXTR AT DOOR

SCALE: 3/4" = 1'-0"

0 1' 2' 3' 4'

SCALE: 3/4" = 1'-0"

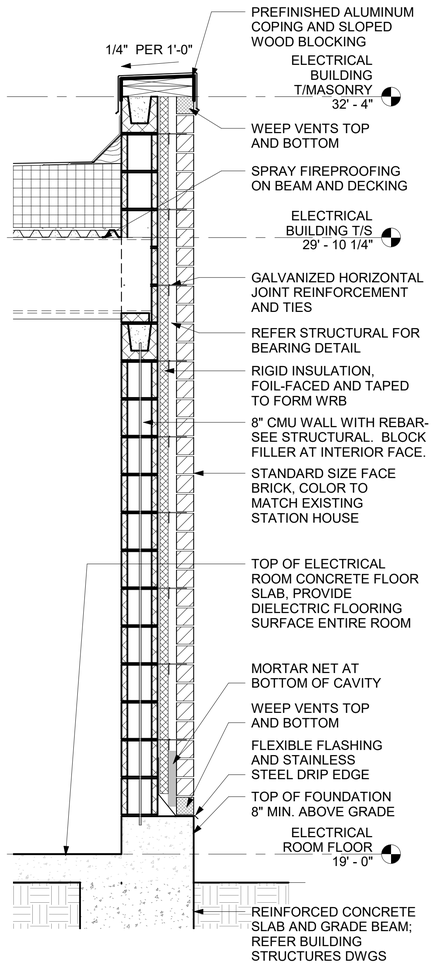


4 A-341 WALL SECTION ELEC BLDG INTR

SCALE: 3/4" = 1'-0"

0 1' 2' 3' 4'

SCALE: 3/4" = 1'-0"

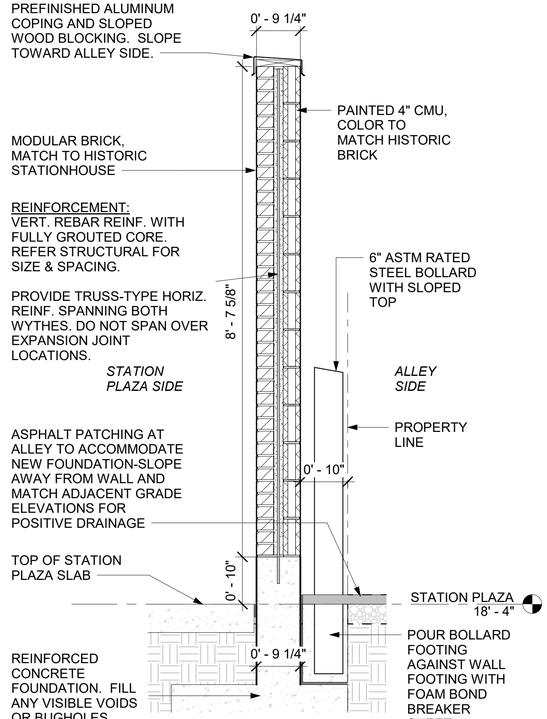


3 A-341 WALL SECTION ELEC BLDG EXTR

SCALE: 3/4" = 1'-0"

0 1' 2' 3' 4'

SCALE: 3/4" = 1'-0"



1 A-341 COMPOSITE WALL SECTION AT ALLEY

SCALE: 3/4" = 1'-0"

0 1' 2' 3' 4'

SCALE: 3/4" = 1'-0"

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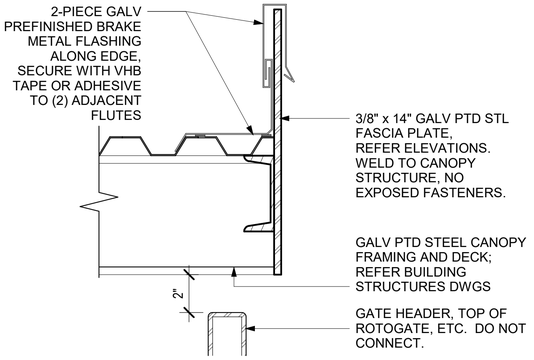
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WALL SECTIONS

LSCAL

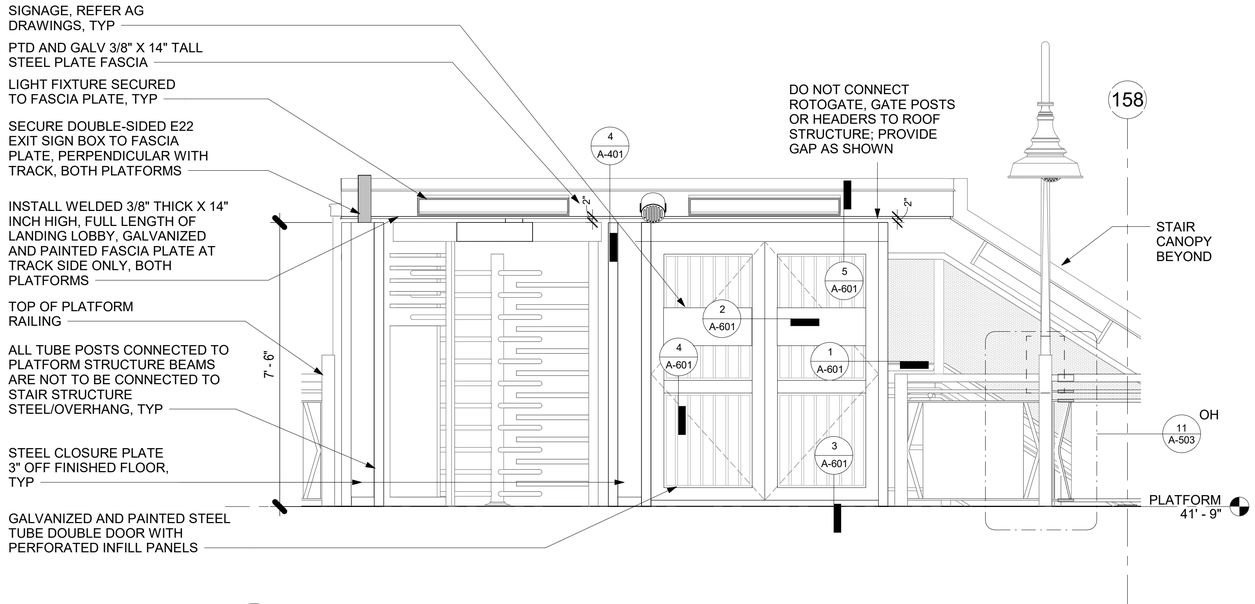
VOLUME: 1 OF 1

A-341



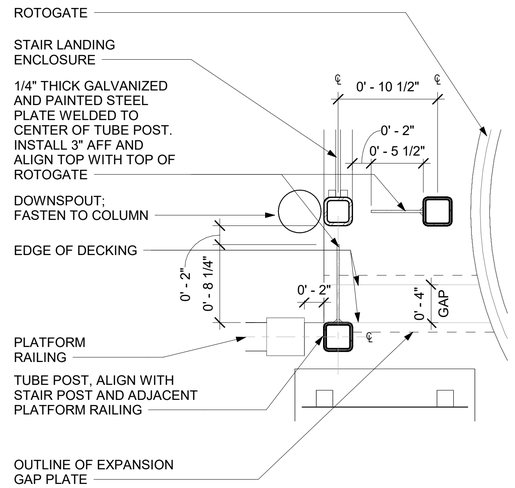
4 A-401 STEEL FASCIA AT AUX EXIT STAIRS
SCALE: 3" = 1'-0"

SCALE: 3" = 1'-0"



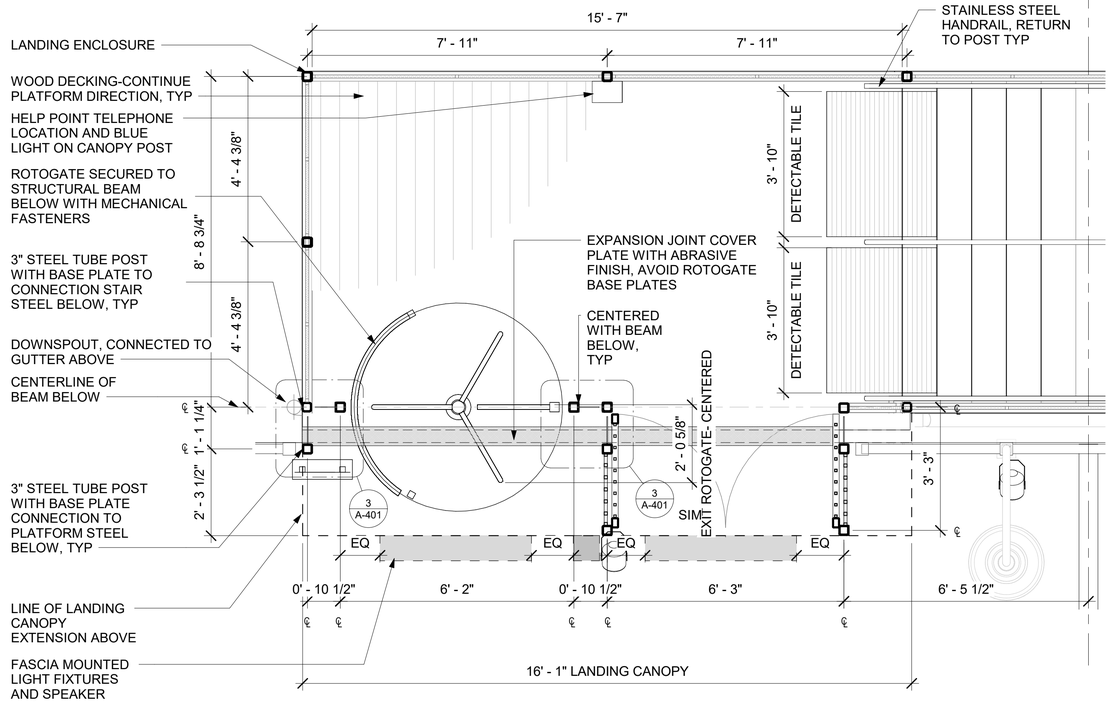
2 A-401 PLATFORM AUXILIARY EXIT ELEVATION (OUTBOUND, INBOUND OH)
SCALE: 1/2" = 1'-0"

SCALE: 1/2" = 1'-0"



3 A-401 RAILING CORNER POST
SCALE: 1 1/2" = 1'-0"

SCALE: 1 1/2" = 1'-0"



1 A-401 ENLARGED PLAN- TOP OF STAIR (OUTBOUND, INBOUND OH)
SCALE: 1/2" = 1'-0"

SCALE: 1/2" = 1'-0"

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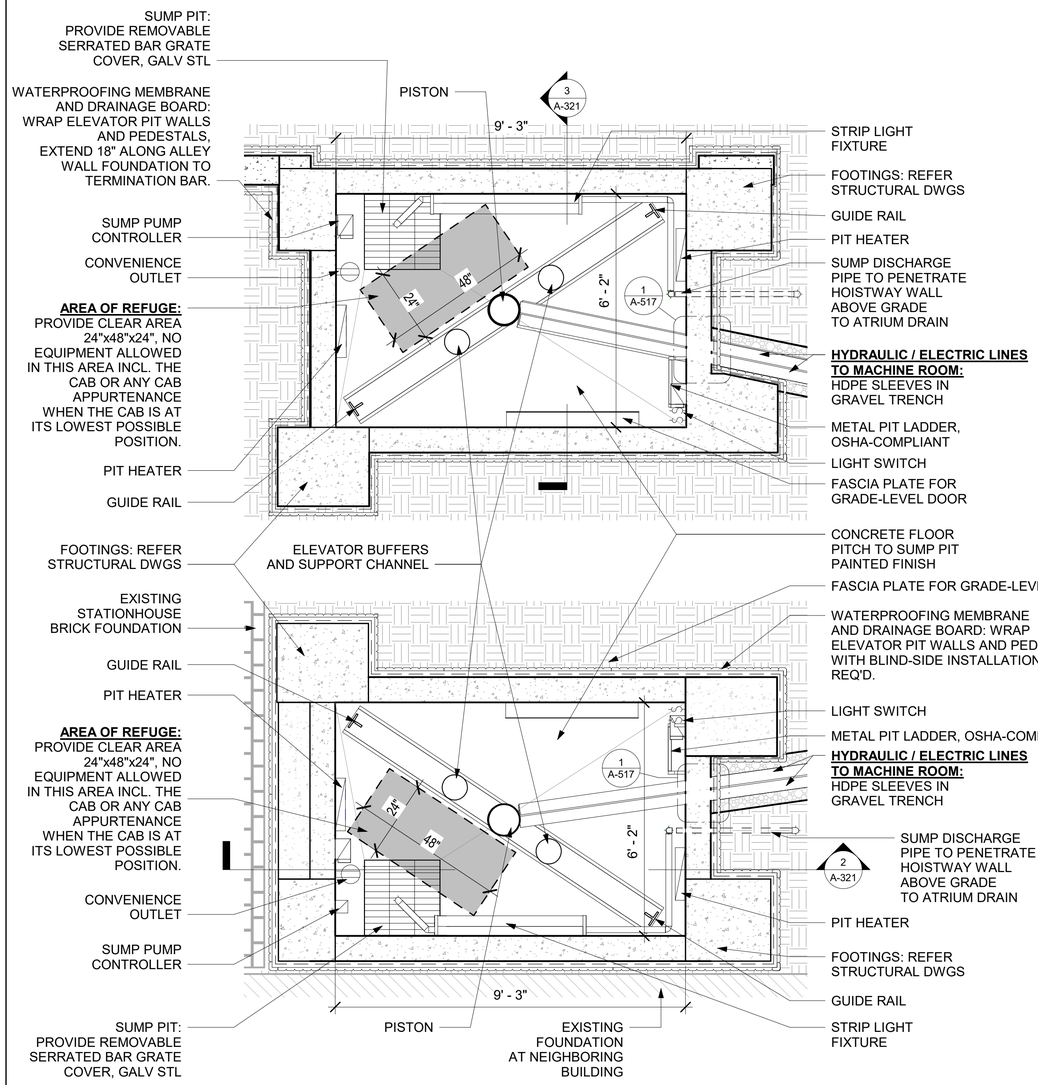
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STAIR 2 ENLARGED PLATFORM PLANS

LSCAL | A-401

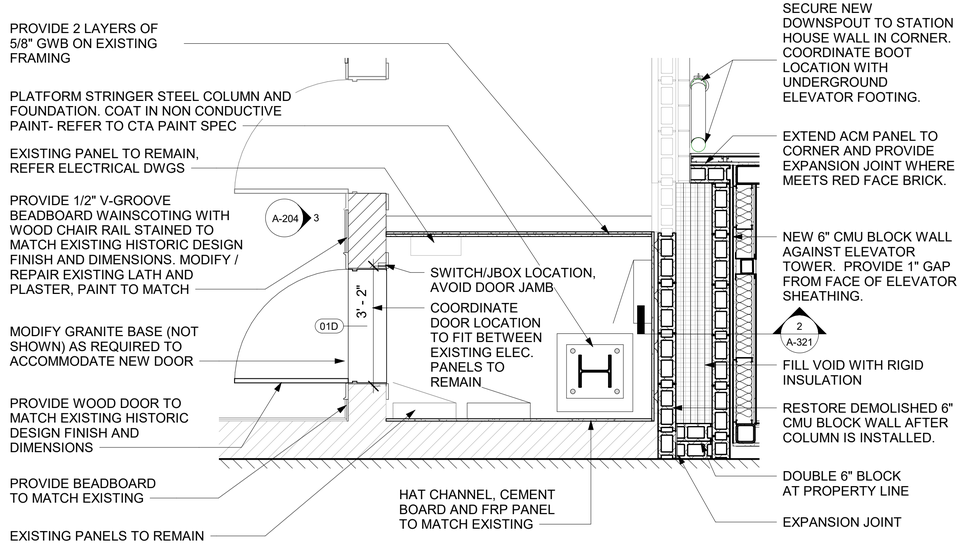
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3 A-402 ELEVATOR PIT PLAN
SCALE: 1/2" = 1'-0"

0 1' 2' 4' 6'
SCALE: 1/2" = 1'-0"



1 A-402 ELECTRICAL CLOSET PLAN-TOP OF PEDESTAL
SCALE: 1/2" = 1'-0"

0 1' 2' 4' 6'
SCALE: 1/2" = 1'-0"

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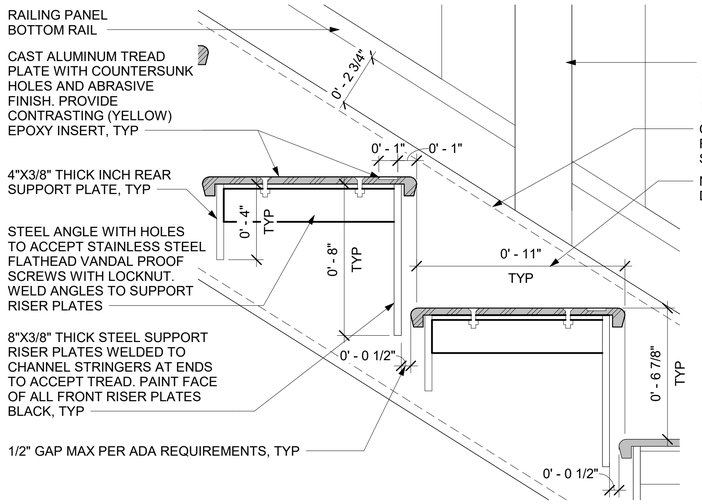
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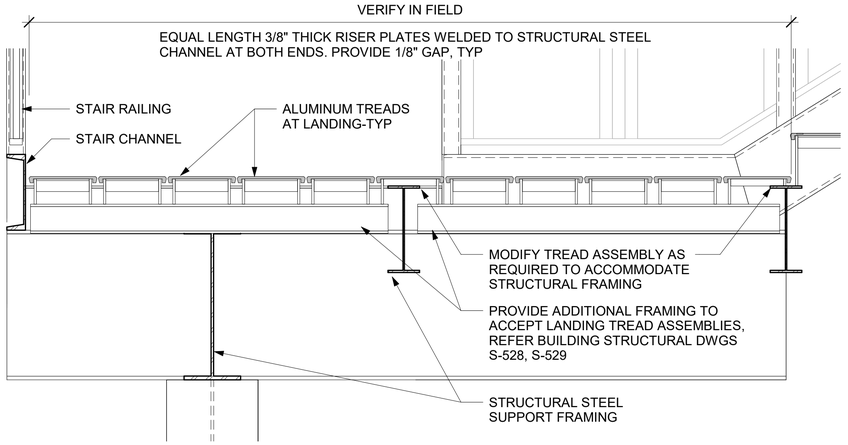
LSCAL A-402
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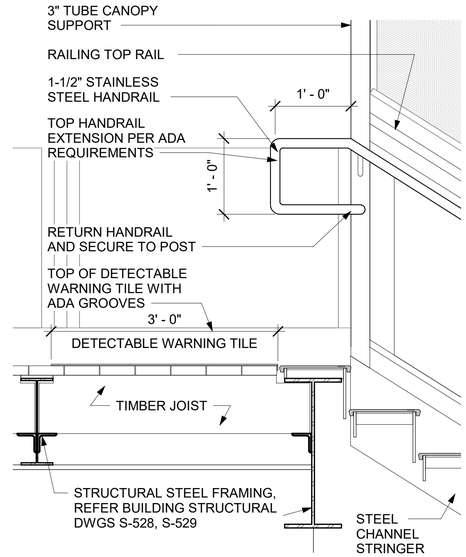
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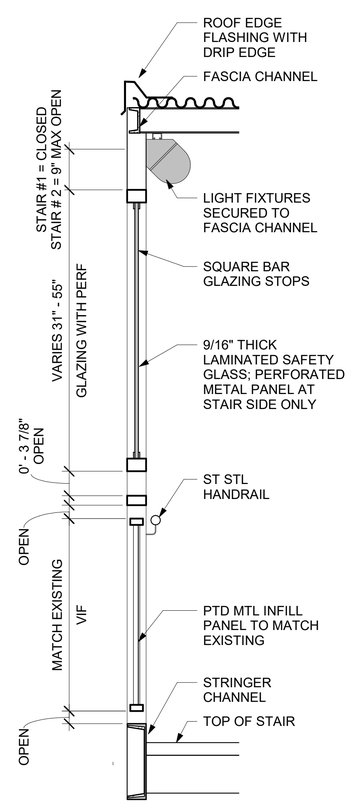
8 A-501 DETAIL STAIR TREAD TYPICAL
SCALE: 3" = 1'-0"
SCALE: 3" = 1'-0"



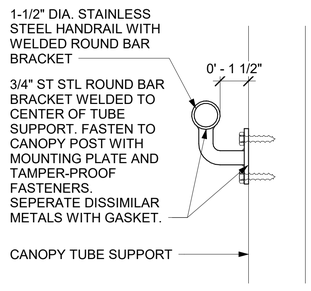
4 A-501 STAIR #1 SECTION- LANDING
SCALE: 1" = 1'-0"
SCALE: 1" = 1'-0"



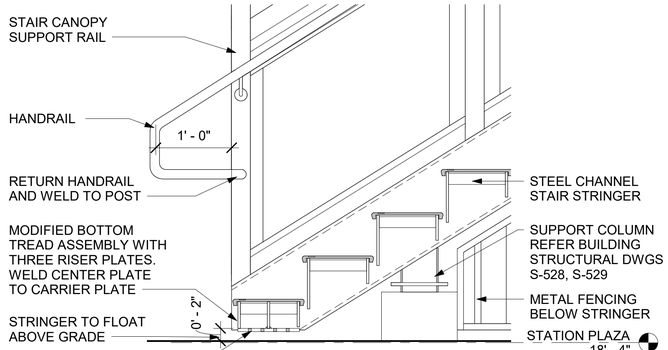
2 A-501 TOP OF STAIR #2
SCALE: 1" = 1'-0"
SCALE: 1" = 1'-0"



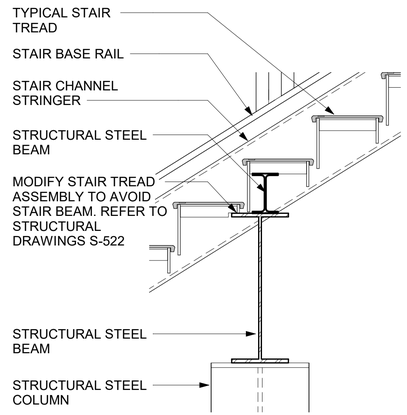
7 A-501 TYPICAL RAILING WALL SECTION
SCALE: 1" = 1'-0"



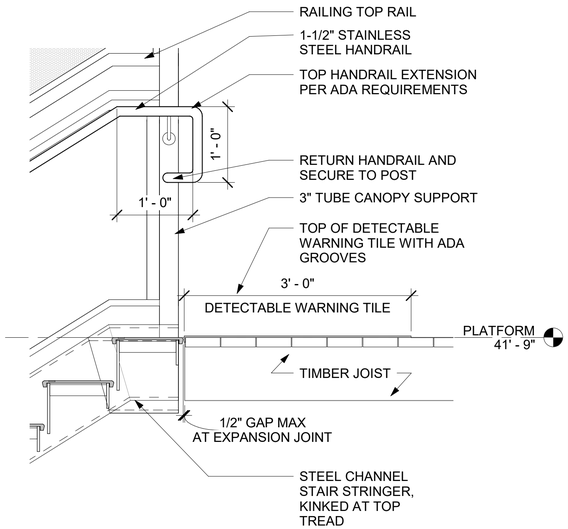
6 A-501 HANDRAIL DETAIL
SCALE: 3" = 1'-0"
SCALE: 3" = 1'-0"



5 A-501 BOTTOM OF STAIR DETAIL
SCALE: 1" = 1'-0"
SCALE: 1" = 1'-0"



3 A-501 TYP. STAIR TREAD AT COLUMN DETAIL
SCALE: 1" = 1'-0"
SCALE: 1" = 1'-0"



1 A-501 TOP OF STAIR #1
SCALE: 1" = 1'-0"
SCALE: 1" = 1'-0"

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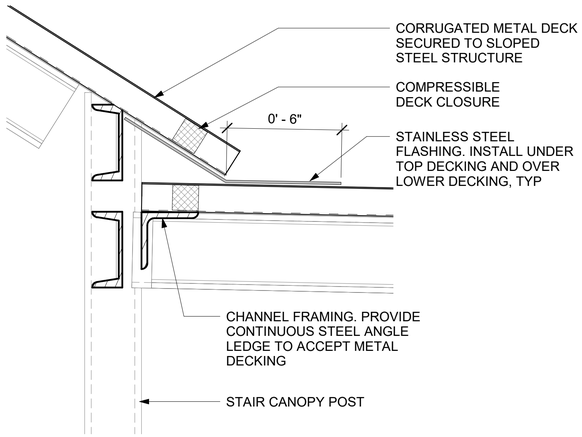
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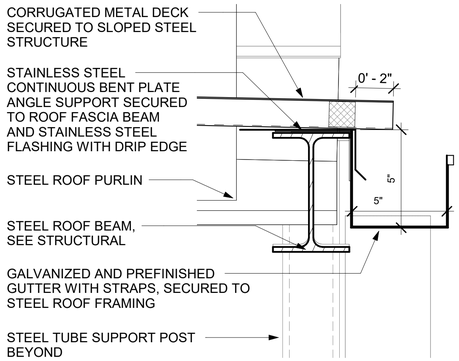
STAIR DETAILS

LSCAL A-501
VOLUME: 1 OF 1

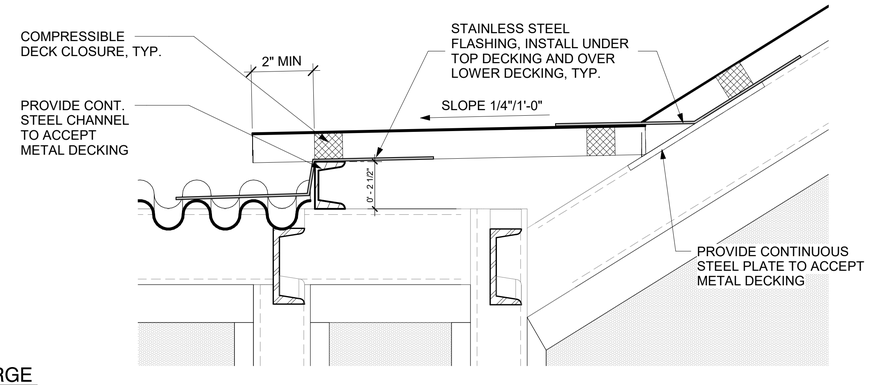
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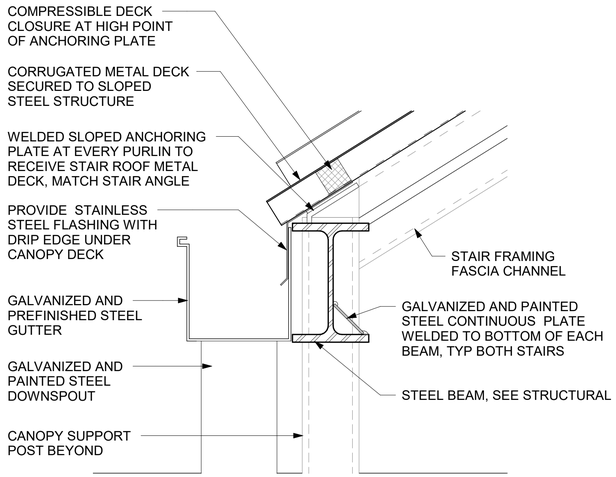
9 A-502 **STAIR SECTION FLASHING DETAIL**
SCALE: 3" = 1'-0"
0 3" 6" 9" 12"
SCALE: 3" = 1'-0"



6 A-502 **GUTTER AT TOP LANDING - ST GEORGE**
SCALE: 3" = 1'-0"
0 3" 6" 9" 12"
SCALE: 3" = 1'-0"



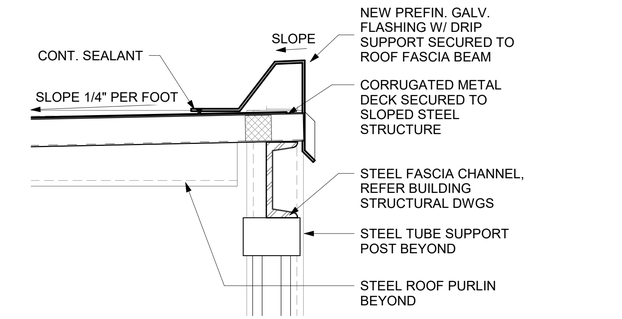
3 A-502 **STAIR #1 LOWER ROOF TRANSITION DETAIL**
SCALE: 3" = 1'-0"
0 3" 6" 9" 12"
SCALE: 3" = 1'-0"



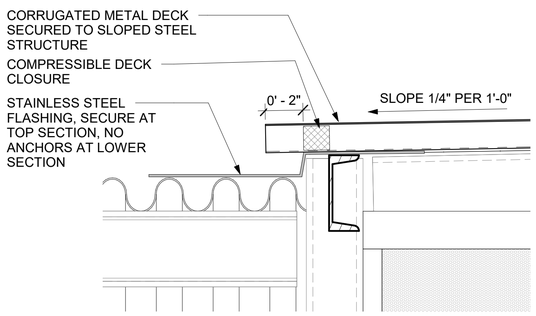
8 A-502 **GUTTER AT BOTTOM OF STAIR,TYP**
SCALE: 3" = 1'-0"
0 3" 6" 9" 12"
SCALE: 3" = 1'-0"



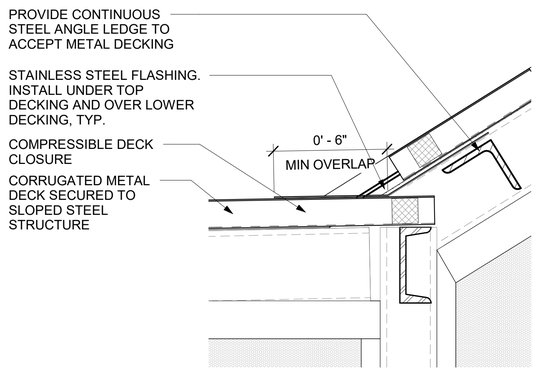
5 A-502 **TOP OF STAIR ROOF-FIRST LANDING**
SCALE: 3" = 1'-0"
0 3" 6" 9" 12"
SCALE: 3" = 1'-0"



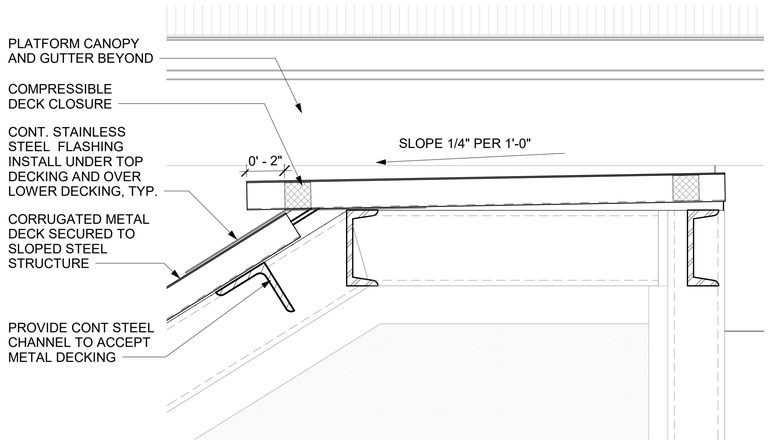
2 A-502 **TYPICAL STAIR CANOPY EDGE FLASHING DETAIL**
SCALE: 3" = 1'-0"
0 3" 6" 9" 12"
SCALE: 3" = 1'-0"



7 A-502 **STAIR MID-LANDING ROOF TRANSITION FLASHING DETAIL**
SCALE: 3" = 1'-0"
0 3" 6" 9" 12"
SCALE: 3" = 1'-0"



4 A-502 **STAIR ROOF TRANSITION FLASHING DETAIL**
SCALE: 3" = 1'-0"
0 3" 6" 9" 12"
SCALE: 3" = 1'-0"



1 A-502 **SECTION DETAIL AT TOP OF STAIR #1**
SCALE: 3" = 1'-0"
0 3" 6" 9" 12"
SCALE: 3" = 1'-0"

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PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	M. KINDELIN
CHECKED BY	JW
DESIGNED BY	JW
DRAWN BY	JW, JC, RS, HN

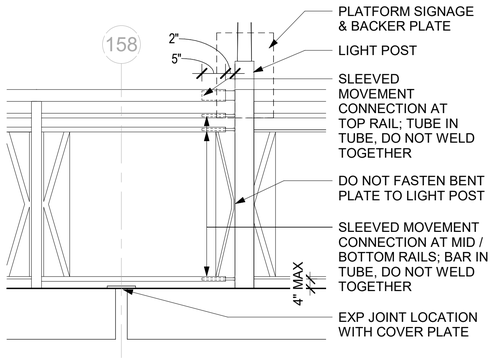
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STAIR CANOPY DETAILS

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VOLUME: 1 OF 1

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11 A-503 BENT 158 - RAILING SLEEVED MOVEMENT CONNECTION
SCALE: 3/4" = 1'-0"



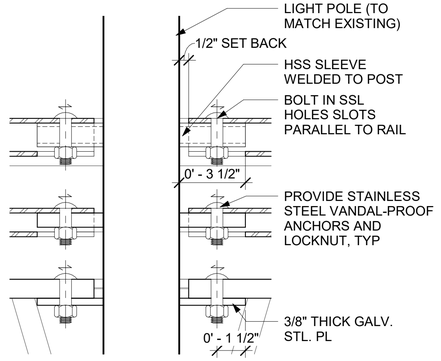
10 A-503 PHOTO - EXISTING RAILING
NTS



7 A-503 PHOTO - CONNECTION BELOW VIEW
NTS



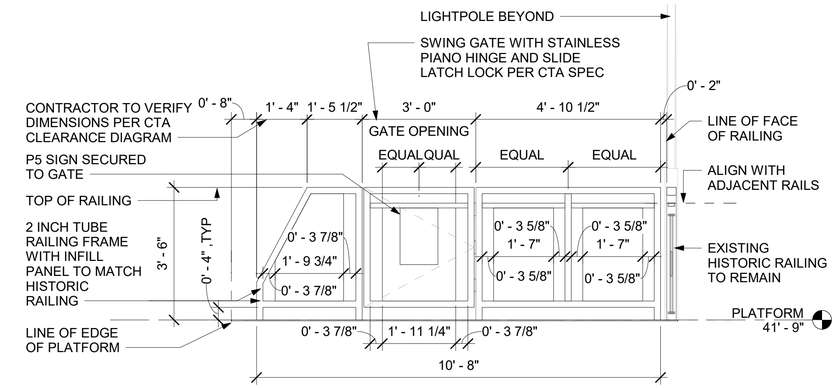
6 A-503 PHOTO- CONNECTION TOP VIEW
NTS



3 A-503 RAILING CONNECTION DETAIL
SCALE: 3" = 1'-0"

0 3" 6" 9" 12"

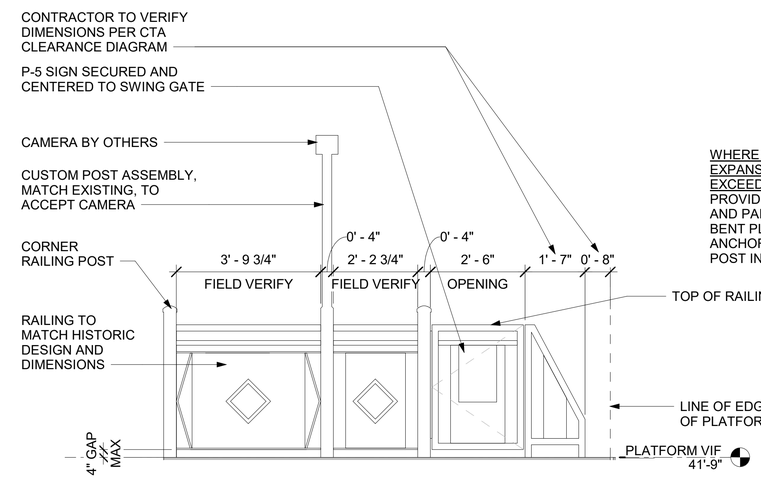
SCALE: 3" = 1'-0"



9 A-503 PLATFORM GUARDRAIL AND GATE G12 -NORTH
SCALE: 1/2" = 1'-0"

0 1' 2' 4' 6'

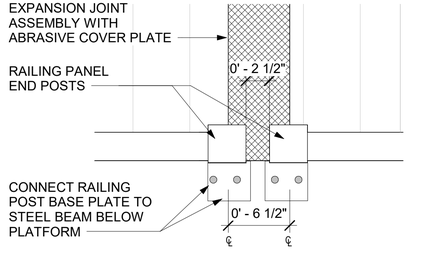
SCALE: 1/2" = 1'-0"



8 A-503 OUTBOUND PLATFORM- SOUTH END GATE G11
SCALE: 1/2" = 1'-0"

0 1' 2' 4' 6'

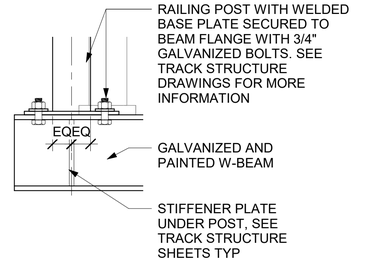
SCALE: 1/2" = 1'-0"



5 A-503 PLATFORM EXPANSION AT RAILING
SCALE: 1 1/2" = 1'-0"

0 1/2' 1' 1 1/2' 2'

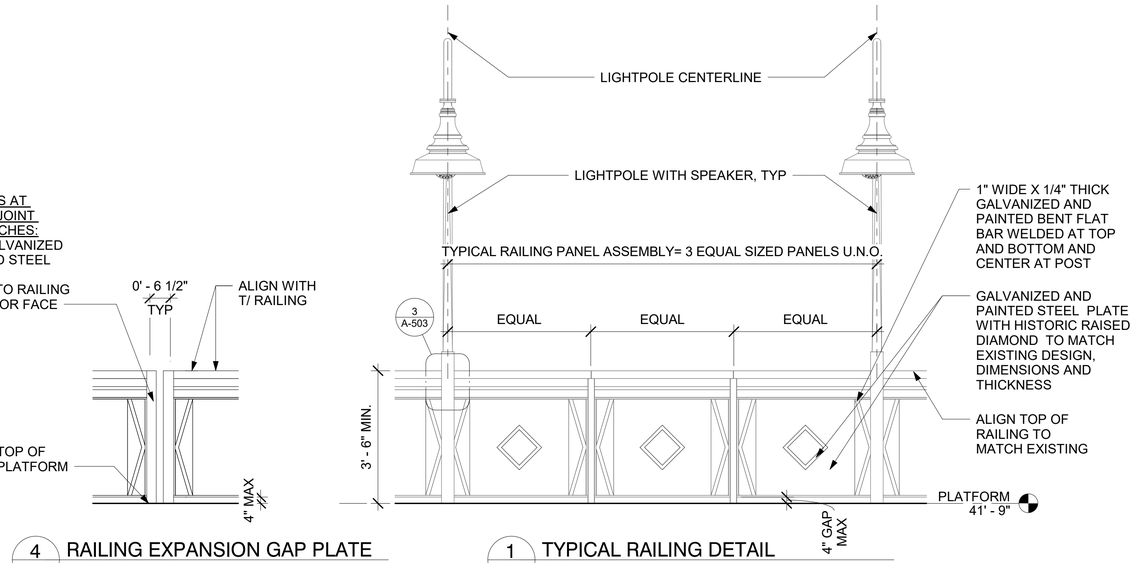
SCALE: 1 1/2" = 1'-0"



2 A-503 POST CONNECTION DETAIL
SCALE: 1 1/2" = 1'-0"

0 1/2' 1' 1 1/2' 2'

SCALE: 1 1/2" = 1'-0"



4 A-503 RAILING EXPANSION GAP PLATE
SCALE: 1/2" = 1'-0"

0 1' 2' 4' 6'

SCALE: 1/2" = 1'-0"

1 A-503 TYPICAL RAILING DETAIL
SCALE: 1/2" = 1'-0"

0 1' 2' 4' 6'

SCALE: 1/2" = 1'-0"

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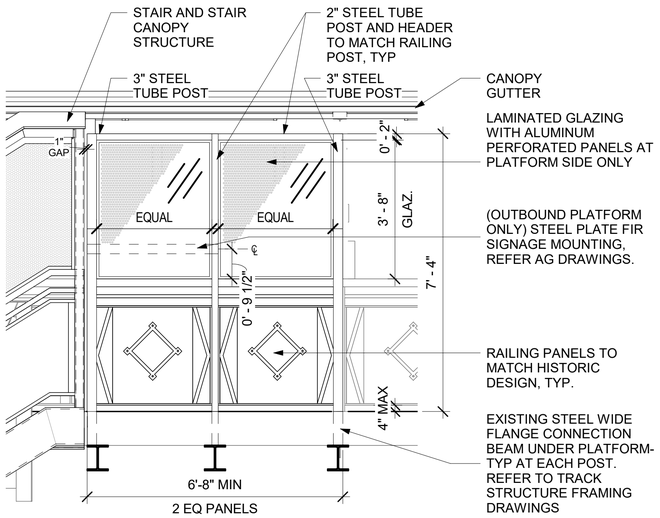
PLATFORM RAILING DETAILS

LSCAL | A-503

VOLUME: 1 OF 1

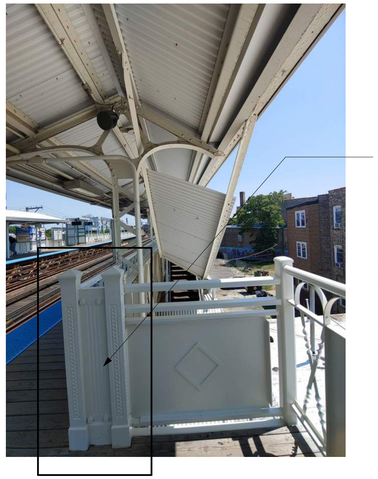
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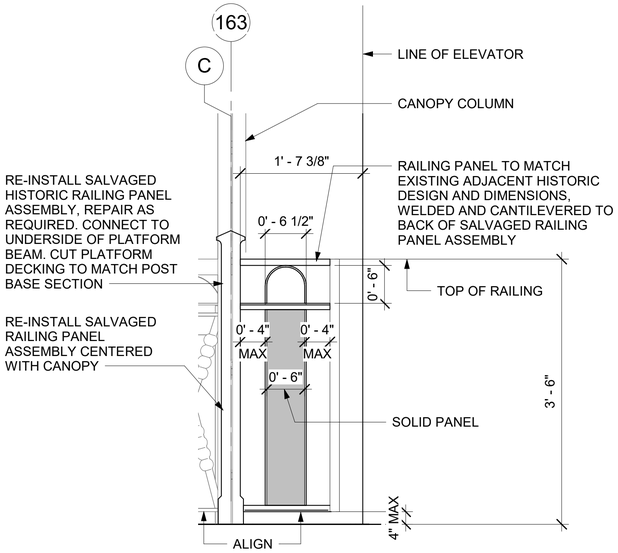
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6 A-504 STAIR #1 - WINDBREAK RAILING AT INBOUND PLATFORM (OUTBOUND OH)
SCALE: 1/2" = 1'-0"

0 1' 2' 4' 6'
SCALE: 1/2" = 1'-0"



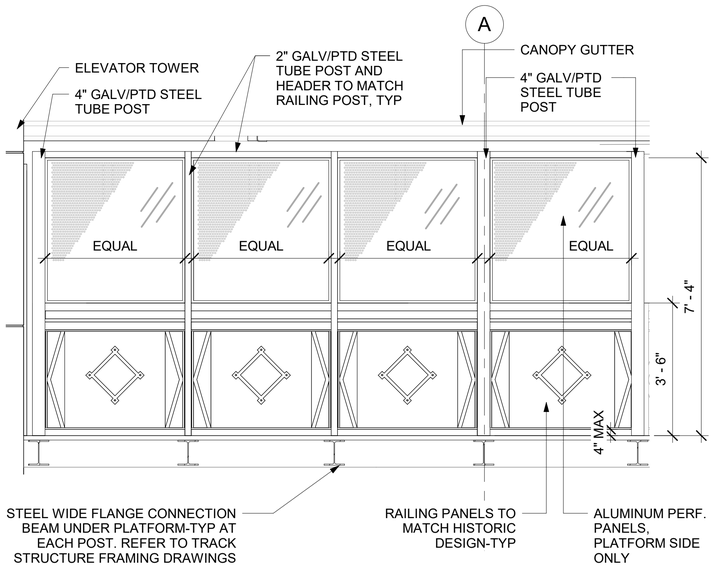


3 A-504 RAILING PANEL-MODIFIED
SCALE: 1" = 1'-0"

0 1' 2' 3'
SCALE: 1" = 1'-0"

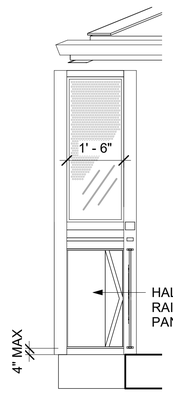
5 A-504 SECTION AT ELEVATOR ENCLOSURE
SCALE: 3/4" = 1'-0"

0 1' 2' 3' 4'
SCALE: 3/4" = 1'-0"



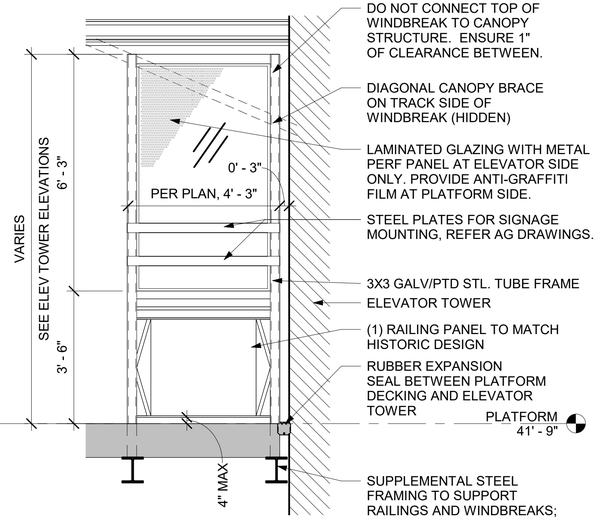
4 A-504 ELEVATOR ENCLOSURE ELEVATION - OUTBOUND SIDE (INBOUND OH, 3 PNLS ONLY)
SCALE: 1/2" = 1'-0"

0 1' 2' 4' 6'
SCALE: 1/2" = 1'-0"



ELEVATOR ENCL ELEV. - RETURN OUTBOUND SIDE
2 A-504 SCALE: 1/2" = 1'-0"

0 1' 2' 4' 6'
SCALE: 1/2" = 1'-0"



1 A-504 ELEVATOR ENCLOSURE ELEVATION - AT TRACK SIDE
SCALE: 1/2" = 1'-0"

0 1' 2' 4' 6'
SCALE: 1/2" = 1'-0"

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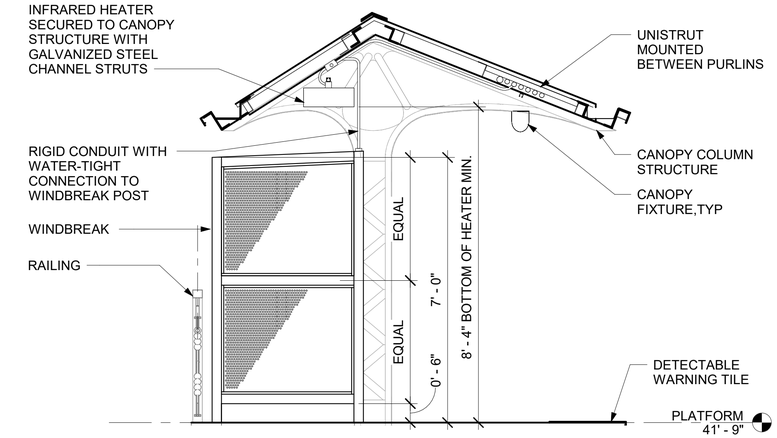
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PLATFORM RAILING DETAILS

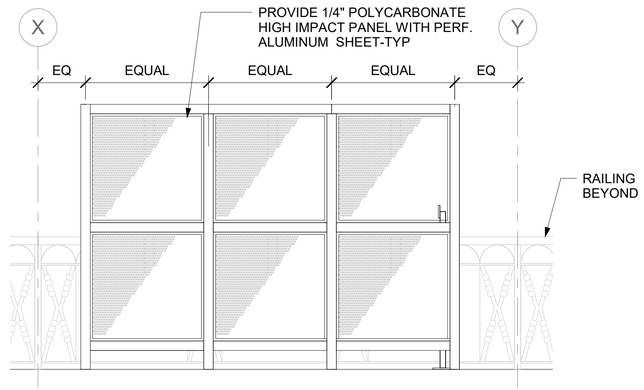
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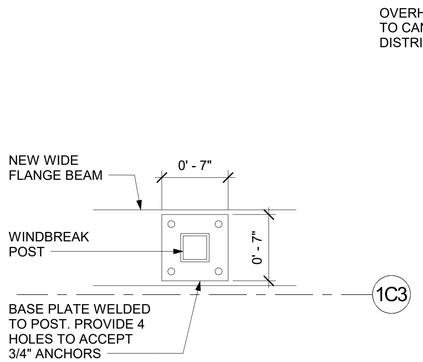
3 A-505 WINDBREAK SIDE ELEVATION
SCALE: 1/2" = 1'-0"

0 1' 2' 4' 6'
SCALE: 1/2" = 1'-0"



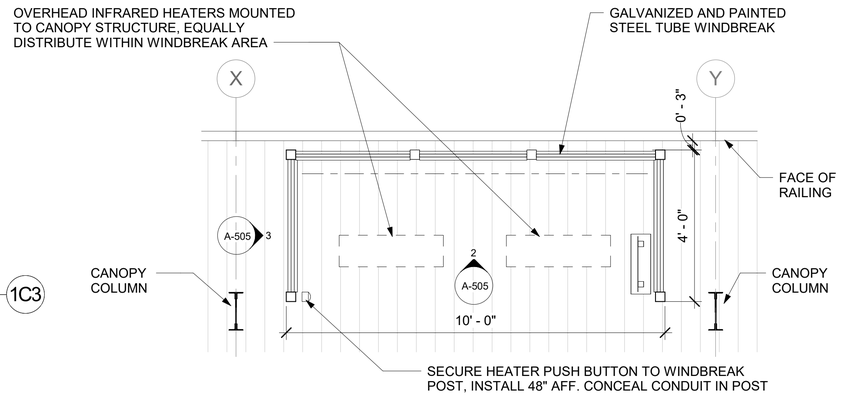
2 A-505 WINDBREAK ELEVATION
SCALE: 1/2" = 1'-0"

0 1' 2' 4' 6'
SCALE: 1/2" = 1'-0"



4 A-505 WINDBREAK BASEPLATE
SCALE: 1 1/2" = 1'-0"

0 1/2' 1' 1 1/2' 2'
SCALE: 1 1/2" = 1'-0"



1 A-505 WINDBREAK PLAN
SCALE: 1/2" = 1'-0"

0 1' 2' 4' 6'
SCALE: 1/2" = 1'-0"

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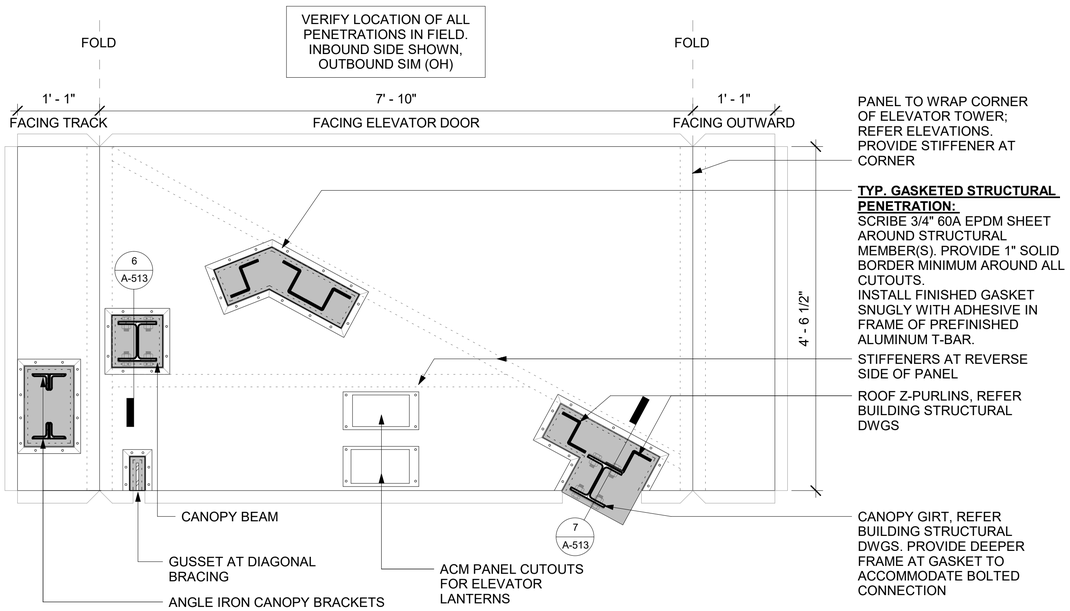
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WINDBREAK DETAILS

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VOLUME: 1 OF 1

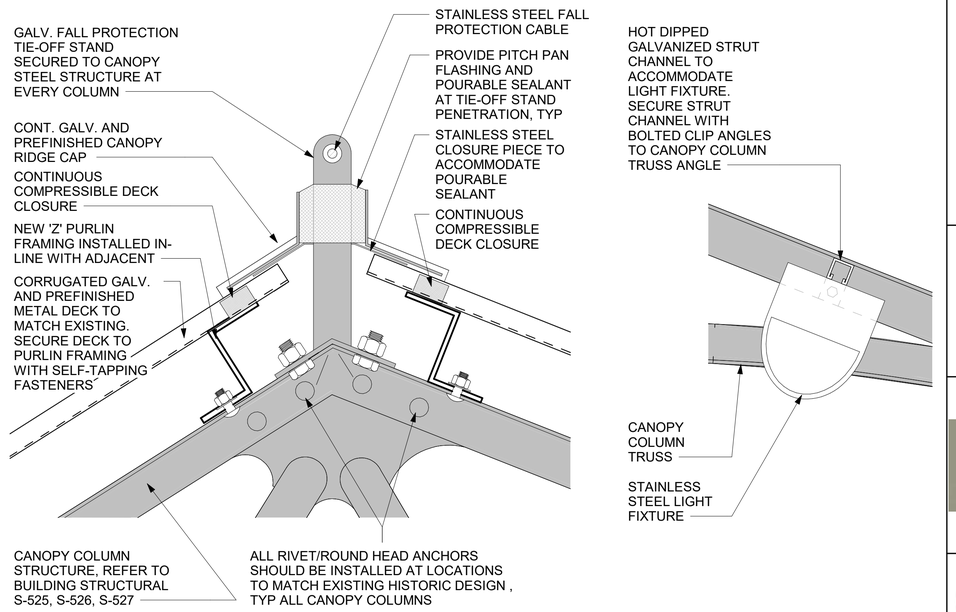
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6 A-506 CANOPY STRUCTURE PENETRATIONS AT ACM PANEL
SCALE: 1" = 1'-0"

0 1/2" 1' 1 1/2" 2'
SCALE: 1 1/2" = 1'-0"

0 1/2" 1' 1 1/2" 2'
SCALE: 1 1/2" = 1'-0"

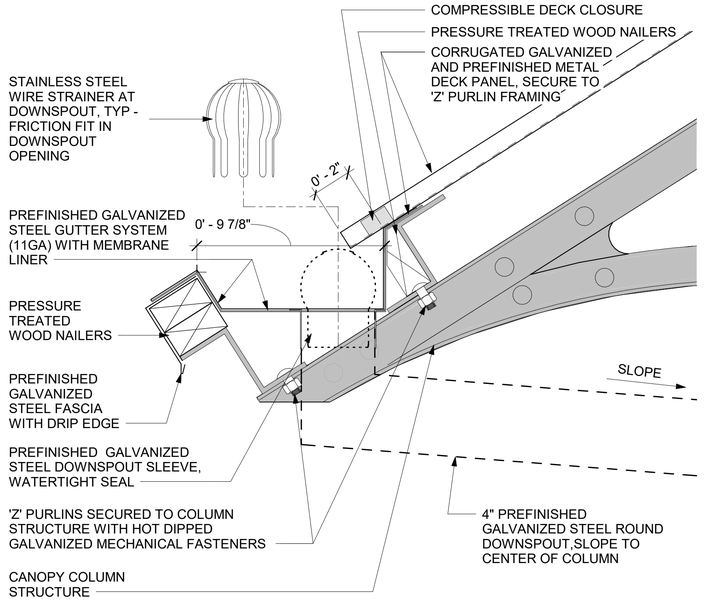


4 A-506 CANOPY RIDGE DETAIL
SCALE: 3" = 1'-0"

0 3" 6" 9" 12"
SCALE: 3" = 1'-0"

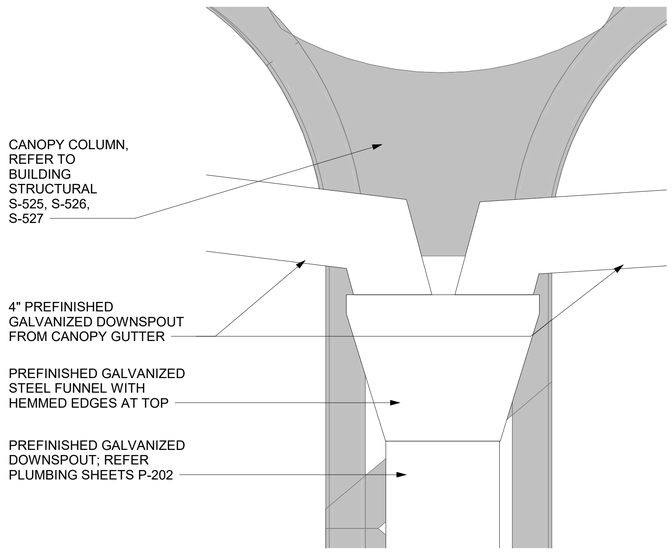
2 A-506 LIGHT FIXTURE AT PLATFORM CANOPY
SCALE: 3" = 1'-0"

0 3" 6" 9" 12"
SCALE: 3" = 1'-0"



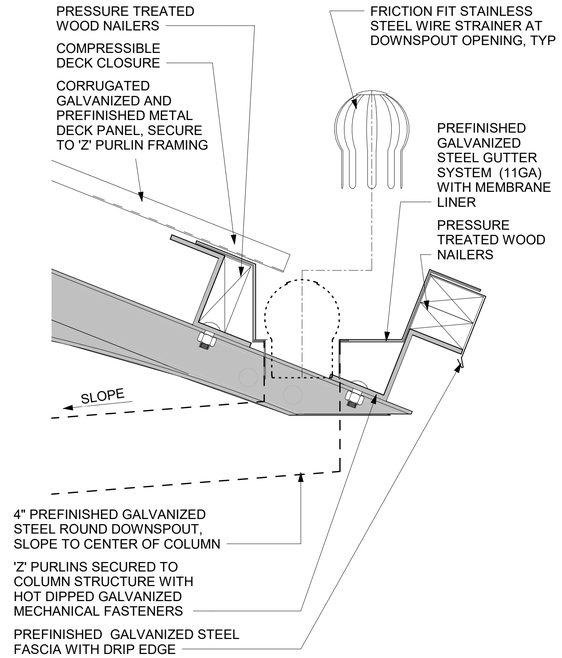
5 A-506 CANOPY DETAIL AT GUTTER SHORT LEG
SCALE: 3" = 1'-0"

0 3" 6" 9" 12"
SCALE: 3" = 1'-0"



3 A-506 GUTTER FUNNEL ENCLOSURE
SCALE: 3" = 1'-0"

0 3" 6" 9" 12"
SCALE: 3" = 1'-0"



1 A-506 CANOPY DETAIL AT GUTTER LONG
SCALE: 3" = 1'-0"

0 3" 6" 9" 12"
SCALE: 3" = 1'-0"

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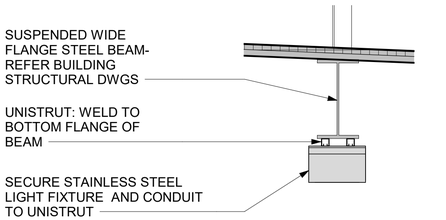
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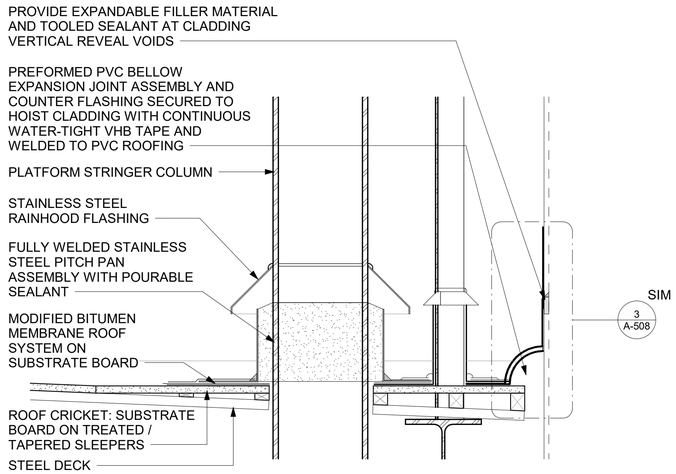
CANOPY DETAILS

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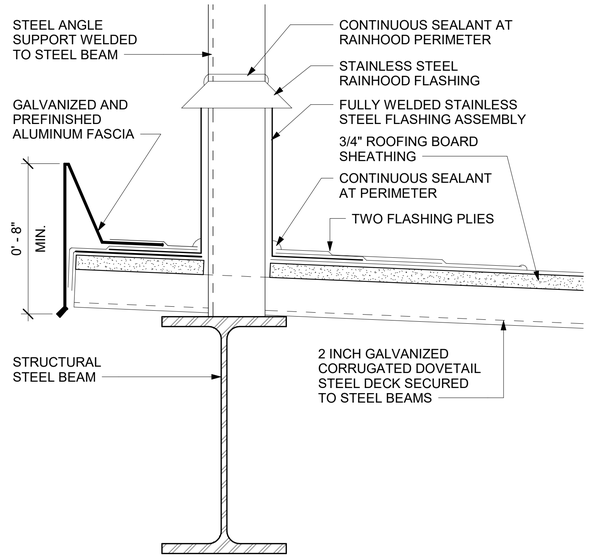
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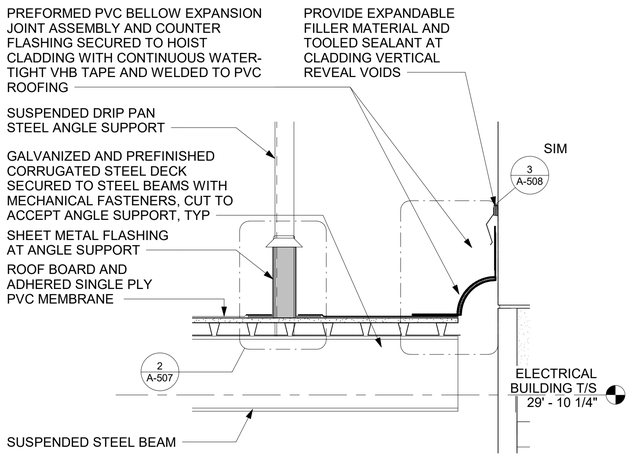
6 A-507 FIXTURE AT DRIP PAN DETAIL
SCALE: 1" = 1'-0"
0 1' 2' 3'
SCALE: 1" = 1'-0"



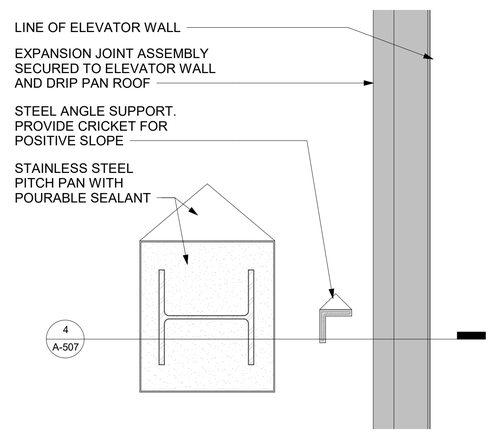
4 A-507 STRINGER COLUMN FLASHING
SCALE: 1 1/2" = 1'-0"
0 1/2' 1' 1 1/2' 2'
SCALE: 1 1/2" = 1'-0"



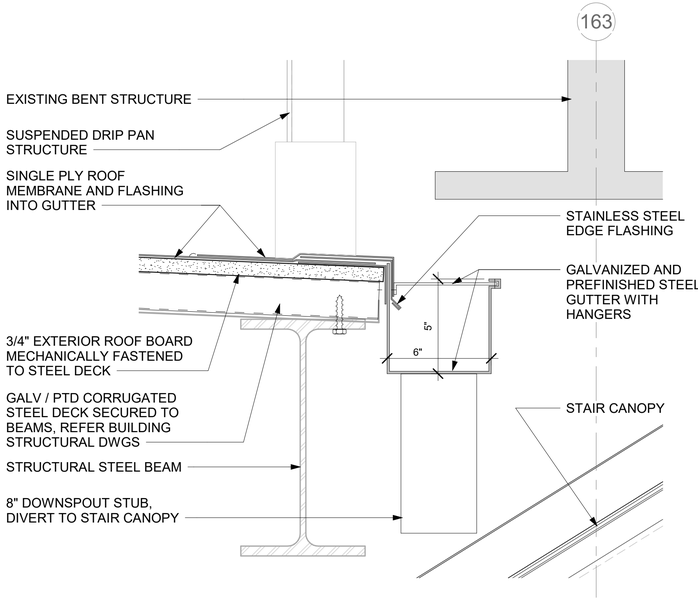
2 A-507 DRIP PAN FASCIA AND SUPPORT FLASHING DETAIL
SCALE: 3" = 1'-0"
0 3" 6" 9" 12"
SCALE: 3" = 1'-0"



5 A-507 DRIP PAN FLASHING - TYP
SCALE: 1" = 1'-0"
0 1' 2' 3'
SCALE: 1" = 1'-0"



3 A-507 COLUMN PENETRATION AT DRIP PAN
SCALE: 1 1/2" = 1'-0"
0 1/2' 1' 1 1/2' 2'
SCALE: 1 1/2" = 1'-0"



1 A-507 DRIP PAN GUTTER DETAIL
SCALE: 3" = 1'-0"
0 3" 6" 9" 12"
SCALE: 3" = 1'-0"

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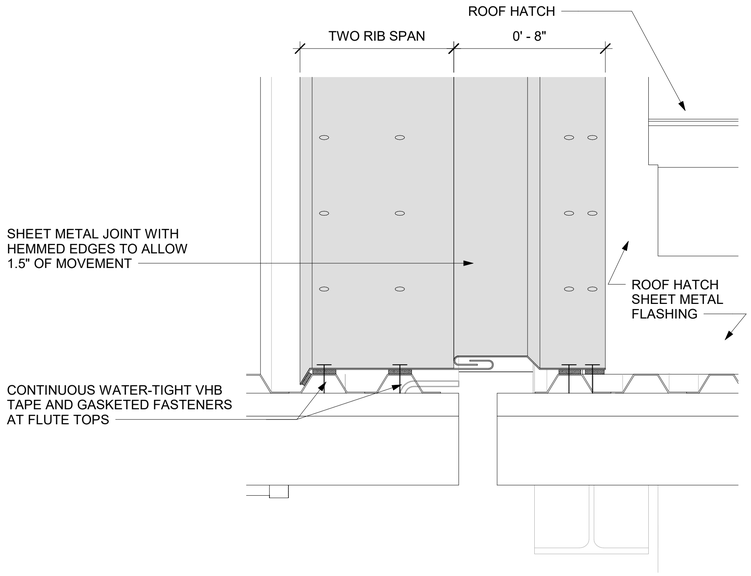
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CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	M. KINDELIN
CHECKED BY	JW
DESIGNED BY	JW
DRAWN BY	JW, JC, RS, HN

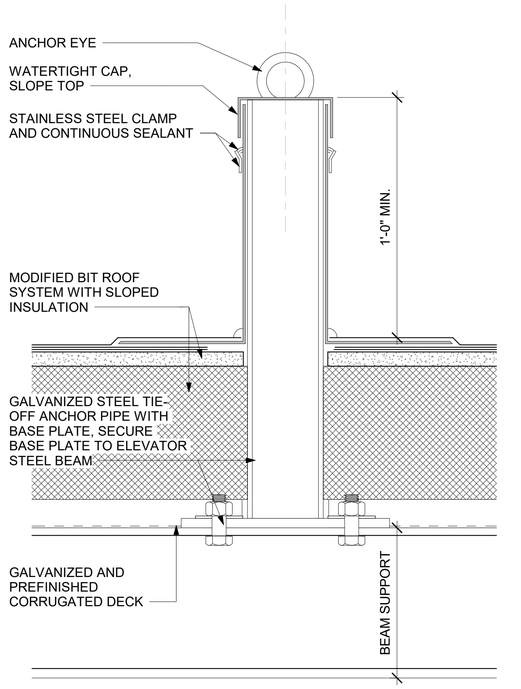
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STATIONHOUSE DRIP PAN DETAILS

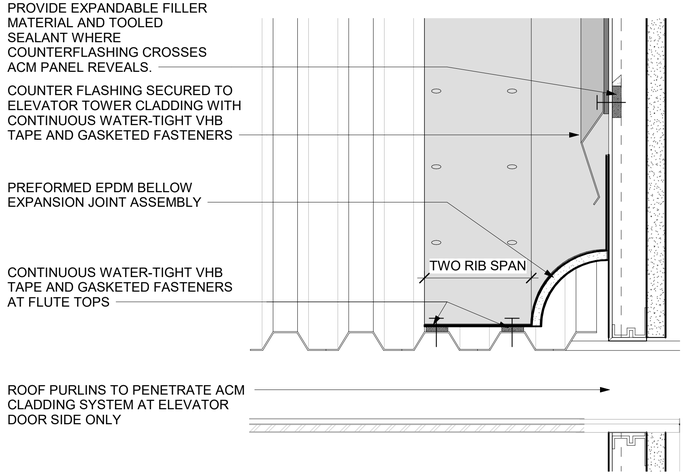
LSCAL A-507
VOLUME: 1 OF 1



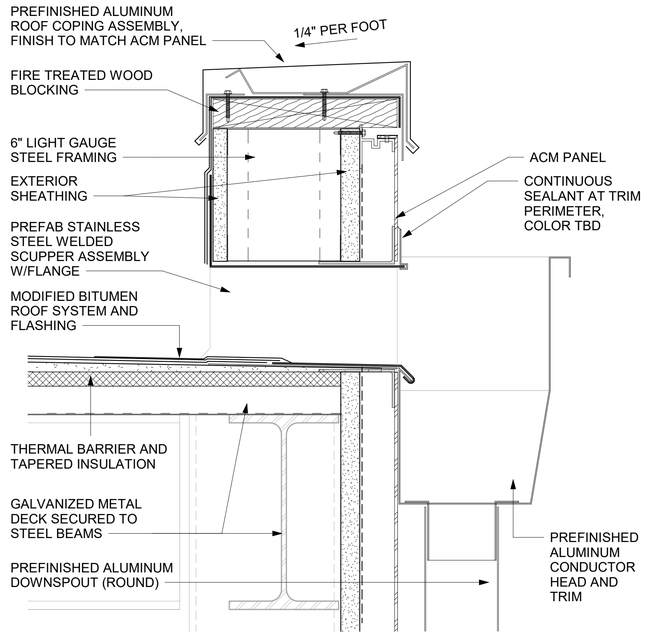
4 A-508 EXPANSION AT CANOPY ROOF
SCALE: 3" = 1'-0"
0 3" 6" 9" 12"
SCALE: 3" = 1'-0"



2 A-508 ELEVATOR FALL PROTECTION PIPE ANCHOR
SCALE: 3" = 1'-0"
0 3" 6" 9" 12"
SCALE: 3" = 1'-0"



3 A-508 EXPANSION AT ELEVATOR AND CANOPY
SCALE: 3" = 1'-0"
0 3" 6" 9" 12"
SCALE: 3" = 1'-0"



1 A-508 ELEVATOR ROOF SCUPPER DETAIL
SCALE: 3" = 1'-0"
0 3" 6" 9" 12"
SCALE: 3" = 1'-0"

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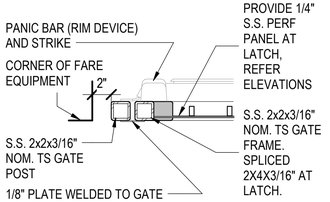
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ROOFING DETAILS

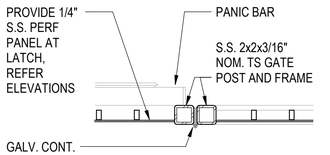
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VOLUME: 1 OF 1

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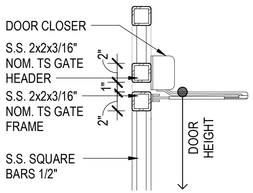
10 A-509 HIGH BARRIER GATE - LATCH

SCALE: 1 1/2" = 1'-0"



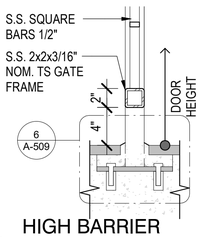
9 A-509 HIGH BARRIER GATE - LATCH

SCALE: 1 1/2" = 1'-0"



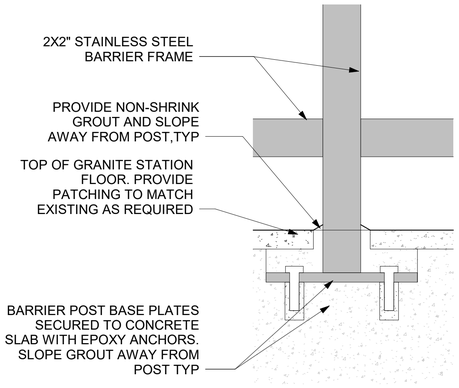
8 A-509 HIGH BARRIER GATE - HEAD

SCALE: 1 1/2" = 1'-0"



7 A-509 HIGH BARRIER GATE - SILL

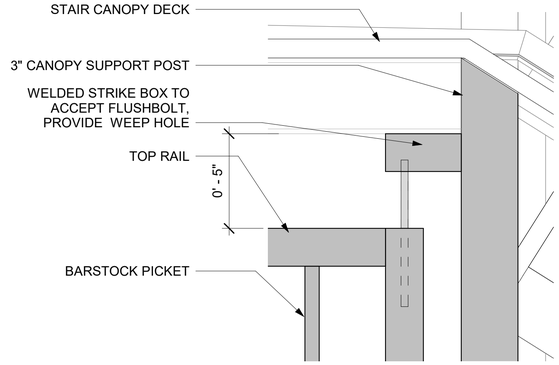
SCALE: 1 1/2" = 1'-0"



6 A-509 STATION BARRIER POST DETAIL

SCALE: 3" = 1'-0"

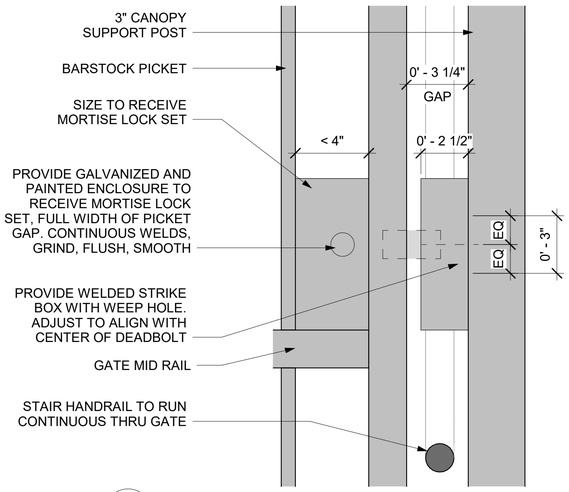
SCALE: 3" = 1'-0"



5 A-509 SECURITY GATE FLUSHBOLT

SCALE: 3" = 1'-0"

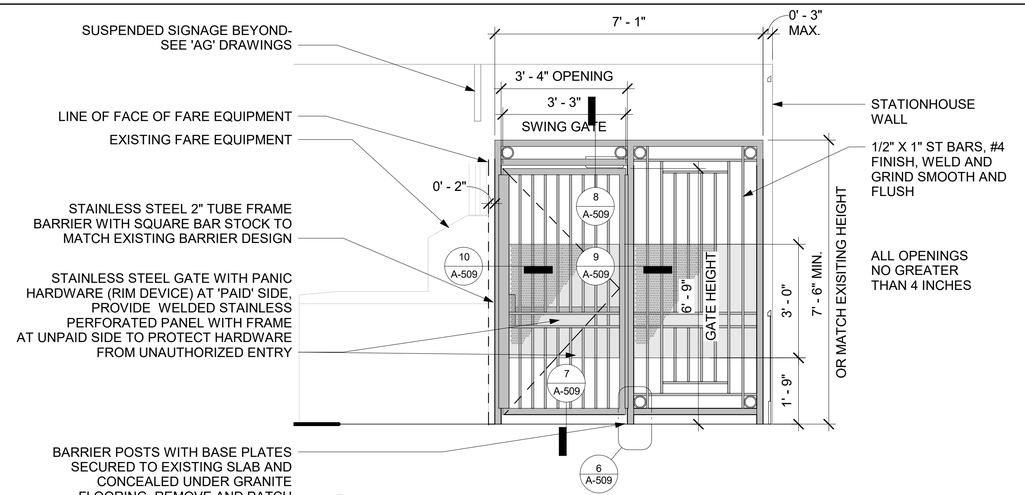
SCALE: 3" = 1'-0"



4 A-509 SECURITY GATE LOCK

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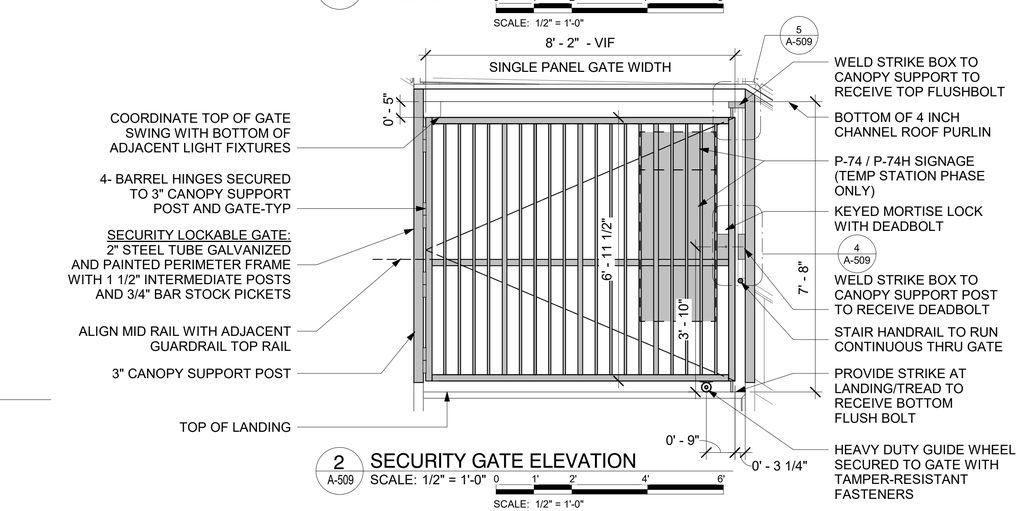
SCALE: 3" = 1'-0"



3 A-509 STATION -FULL HEIGHT BARRIER

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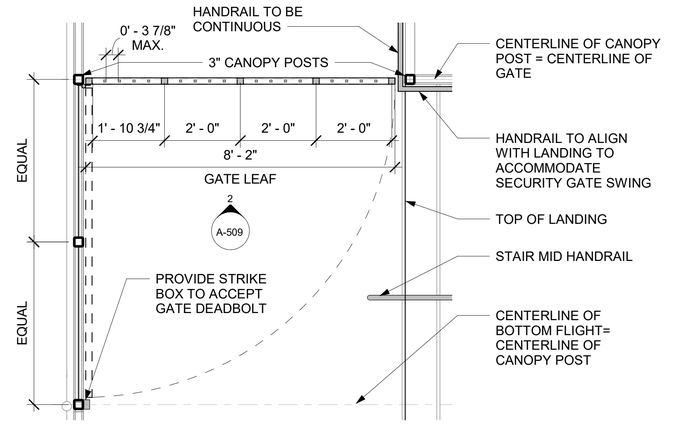
SCALE: 1/2" = 1'-0"



2 A-509 SECURITY GATE ELEVATION

SCALE: 1/2" = 1'-0"

SCALE: 1/2" = 1'-0"



1 A-509 SECURITY GATE PLAN AT LOWER LANDING

SCALE: 1/2" = 1'-0"

SCALE: 1/2" = 1'-0"

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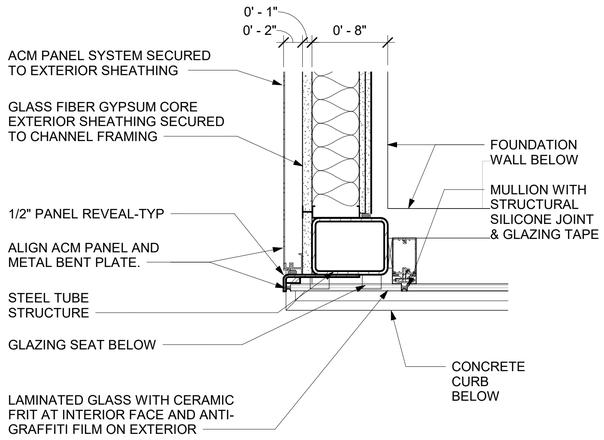
SECURITY GATE DETAILS

LSCAL

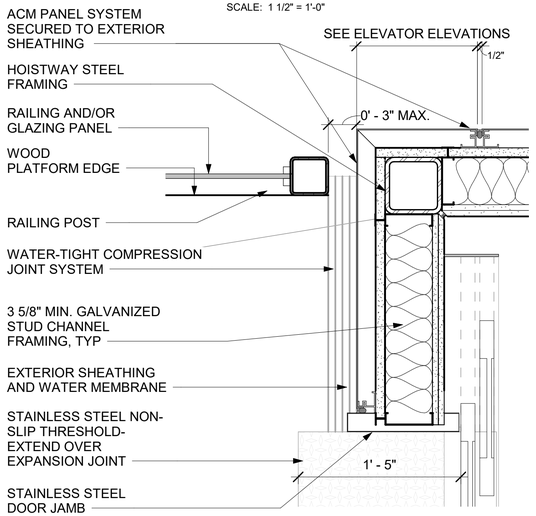
VOLUME: 1 OF 1

A-509

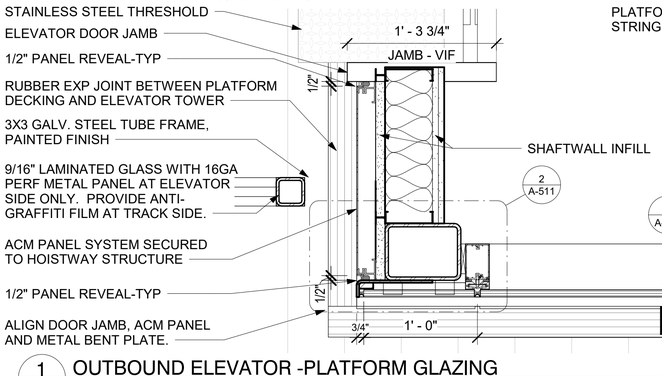
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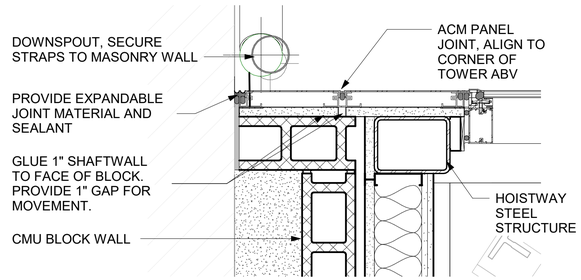
9 A-510 ELEVATOR PLAN AT GRADE-OUTBOUND NE CORNER
SCALE: 1 1/2" = 1'-0"
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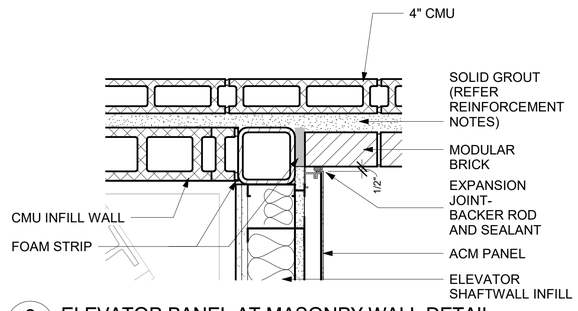
8 A-510 OUTBOUND ELEVATOR PLFM-CORNER DETAIL
SCALE: 1 1/2" = 1'-0"
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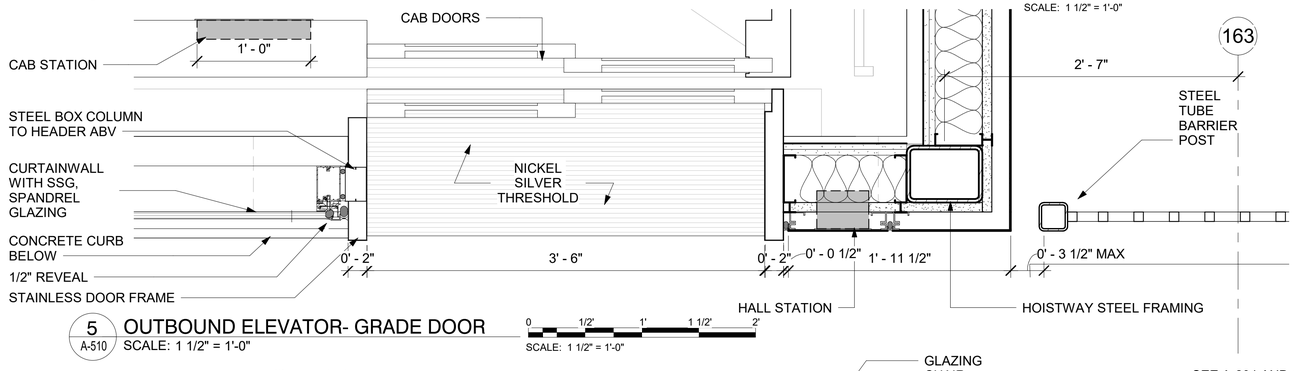
1 A-510 OUTBOUND ELEVATOR -PLATFORM GLAZING
SCALE: 1 1/2" = 1'-0"



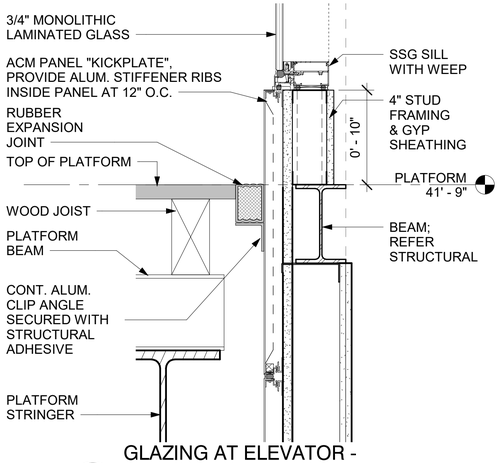
7 A-510 BRICK WALL RETURN AT ELEVATOR
SCALE: 1 1/2" = 1'-0"
SCALE: 1 1/2" = 1'-0"



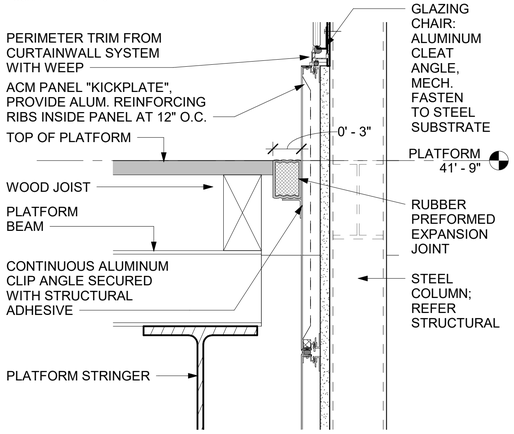
6 A-510 ELEVATOR PANEL AT MASONRY WALL DETAIL
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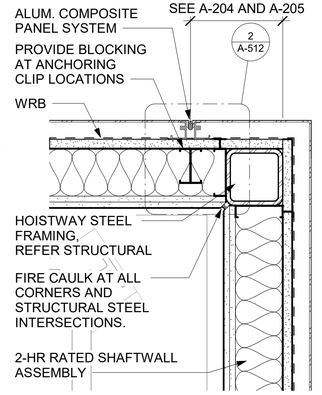
5 A-510 OUTBOUND ELEVATOR- GRADE DOOR
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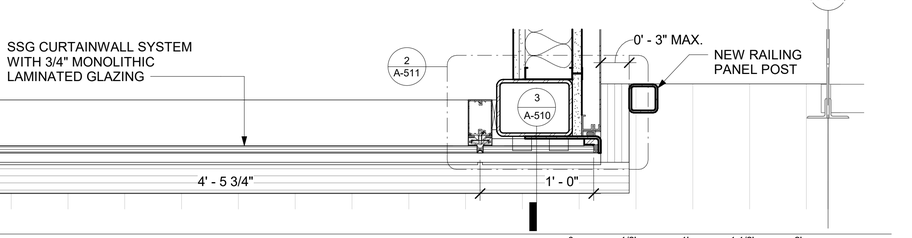
4 A-510 GLAZING AT ELEVATOR - PLATFORM LEVEL SILL
SCALE: 1 1/2" = 1'-0"
SCALE: 1 1/2" = 1'-0"



3 A-510 COMPRESSION SEAL AT ELEVATOR
SCALE: 1 1/2" = 1'-0"
SCALE: 1 1/2" = 1'-0"



2 A-510 ELEVATOR HOISTWAY OUTSIDE CORNER DETAIL
SCALE: 1 1/2" = 1'-0"
SCALE: 1 1/2" = 1'-0"



SCALE: 1 1/2" = 1'-0"

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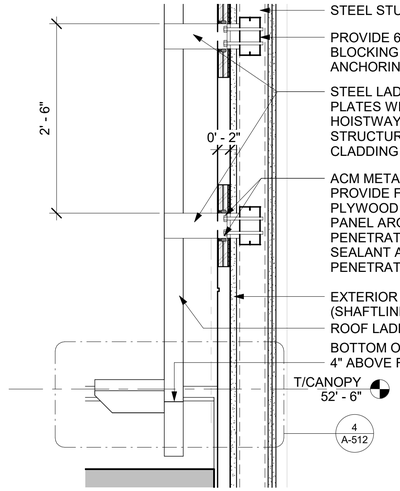
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ELEVATOR DETAILS

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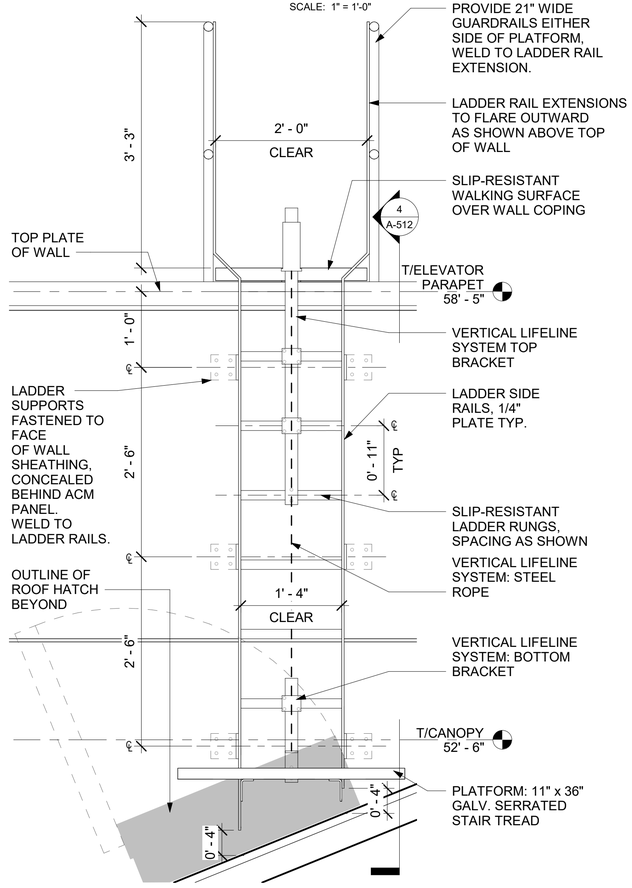
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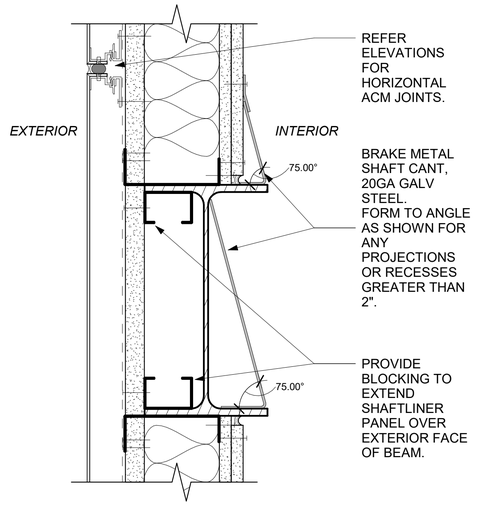
7 OSHA LADDER CONNECTION DETAIL
A-511 SCALE: 1" = 1'-0"

SCALE: 1" = 1'-0"



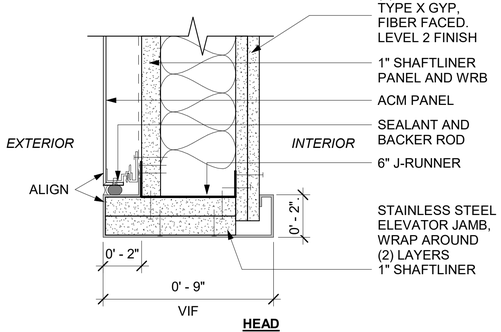
6 ROOF LADDER - TYP ELEVATION
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SCALE: 1" = 1'-0"

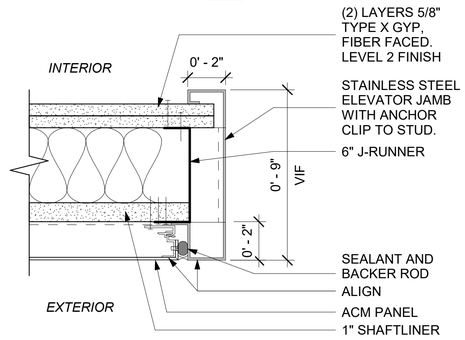


5 ELEVATOR TOWER - SHAFT CANT
A-511 SCALE: 3" = 1'-0"

SCALE: 3" = 1'-0"



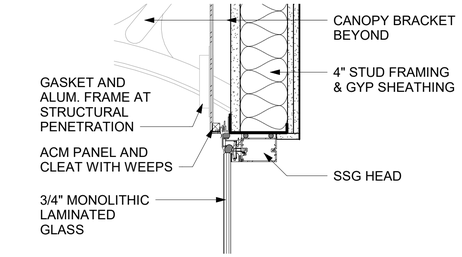
HEAD



JAMB

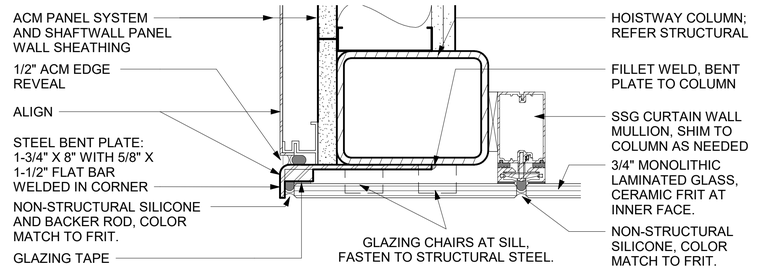
4 ELEVATOR TOWER - DOOR DETAILS
A-511 SCALE: 3" = 1'-0"

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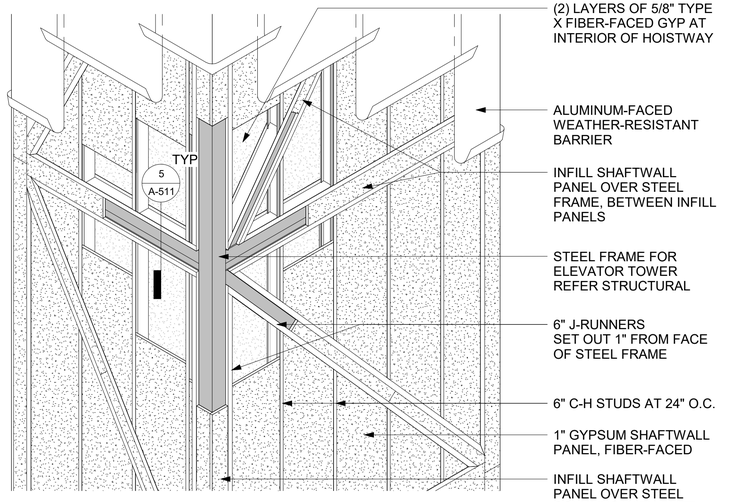
3 ELEVATOR GLAZING - HEAD DETAIL
A-511 SCALE: 1 1/2" = 1'-0"

SCALE: 1 1/2" = 1'-0"



2 GLAZING AT HOISTWAY CORNER
A-511 SCALE: 3" = 1'-0"

SCALE: 3" = 1'-0"



1 ELEVATOR TOWER - SHAFTWALL ASSEMBLY
A-511 SCALE: 1/2" = 1'-0"

SCALE: 1/2" = 1'-0"

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ALL STATIONS ACCESSIBILITY PROGRAM

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CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	M. KINDELIN
CHECKED BY	JW
DESIGNED BY	JW
DRAWN BY	JW, JC, RS, HN

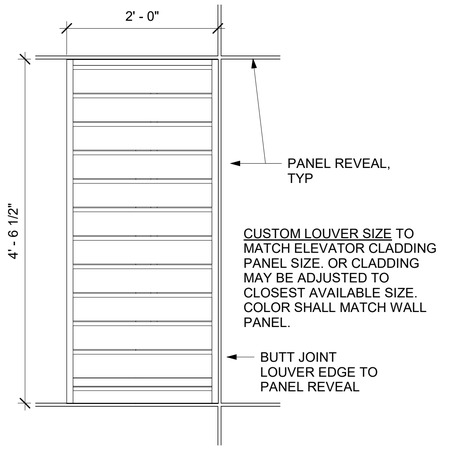
MARK	DATE	DESCRIPTION
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ELEVATOR DETAILS

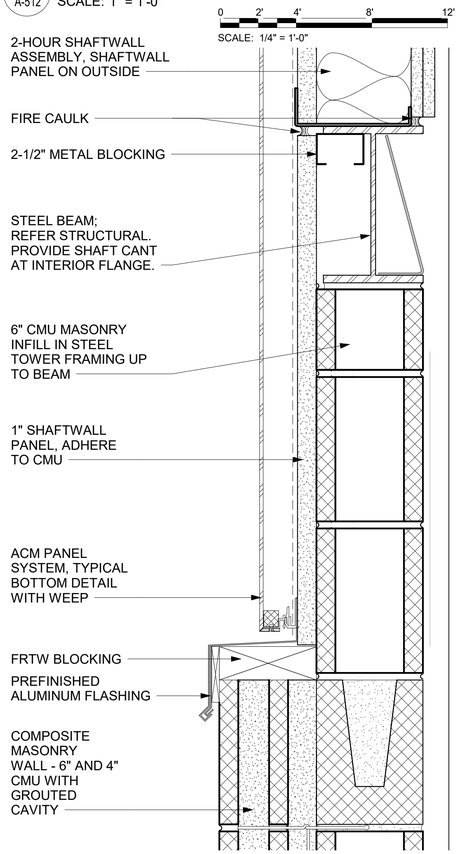
LSCAL | A-511

VOLUME: 1 OF 1

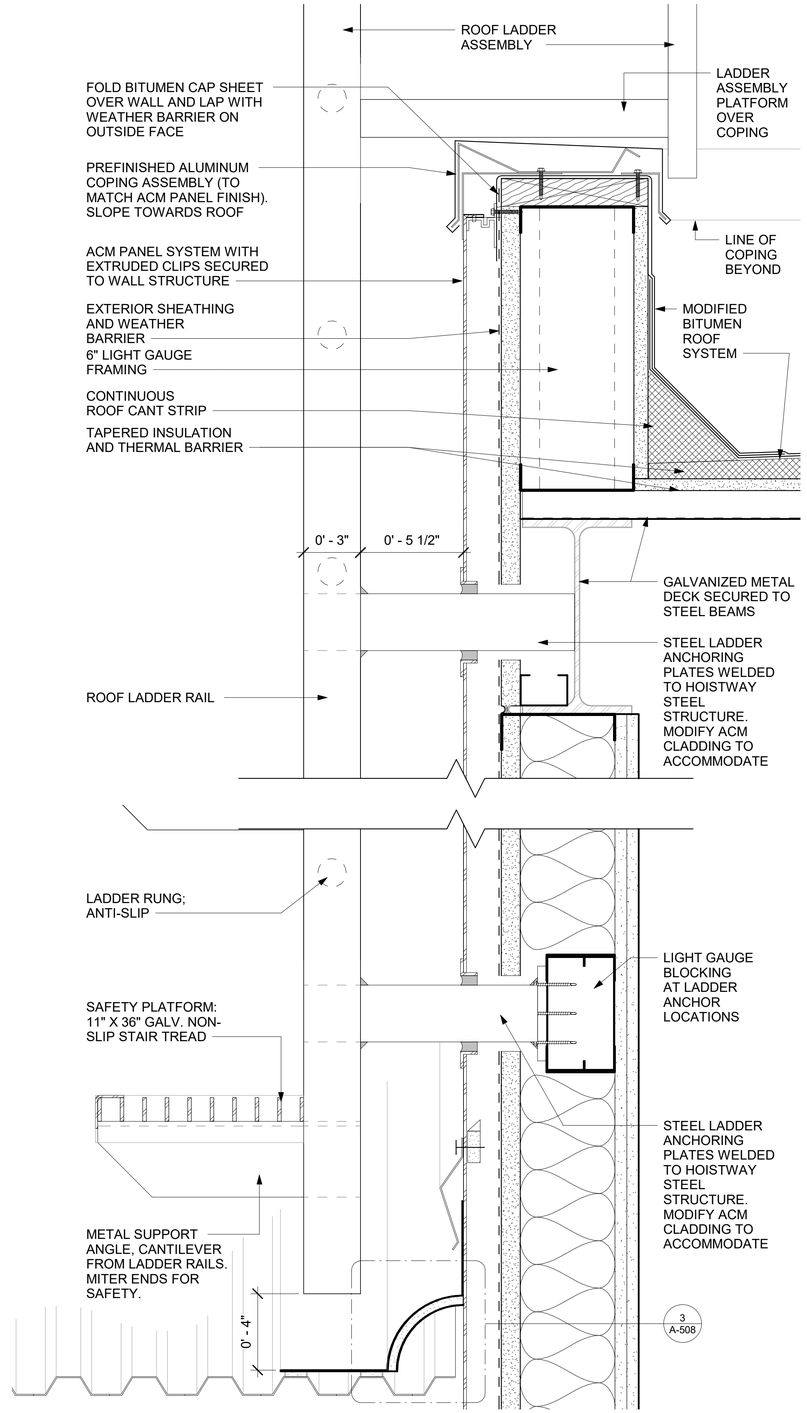
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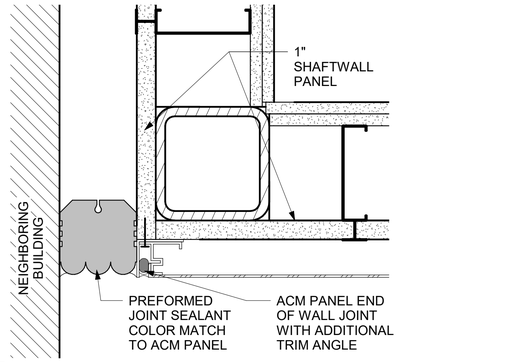
6 A-512 LOUVER DETAIL
SCALE: 1" = 1'-0"



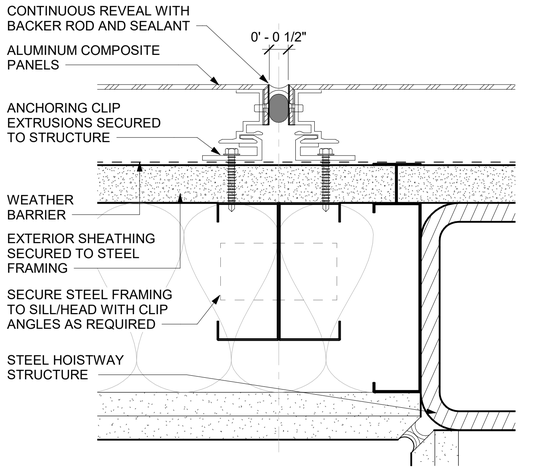
5 A-512 OUTBOUND ELEVATOR-LEDGE DETAIL AT MASONRY WALL ALONG ALLEY
SCALE: 3" = 1'-0"



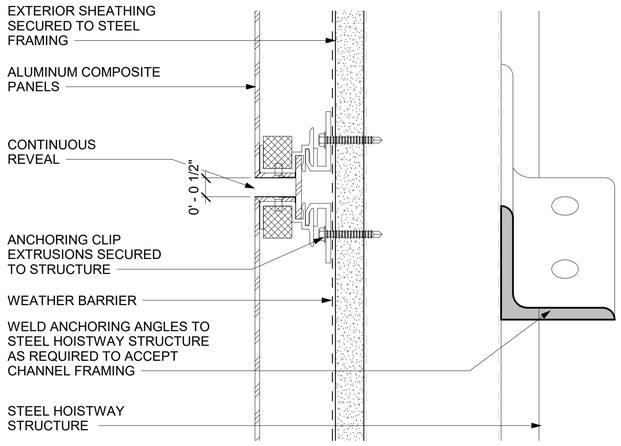
4 A-512 ELEVATOR LADDER AND PARAPET DETAIL
SCALE: 3" = 1'-0"



3 A-512 VERT EXPANSION JOINT AT ADJACENT PROPERTY
SCALE: 3" = 1'-0"



2 A-512 ELEVATOR CLADDING VERTICAL JOINT
SCALE: 6" = 1'-0"



1 A-512 ELEVATOR CLADDING HORIZONTAL JOINT
SCALE: 6" = 1'-0"

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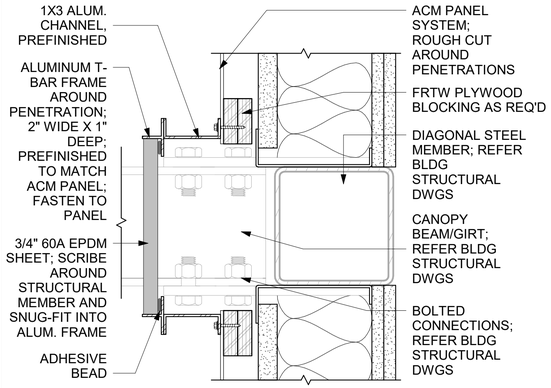
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ELEVATOR DETAILS

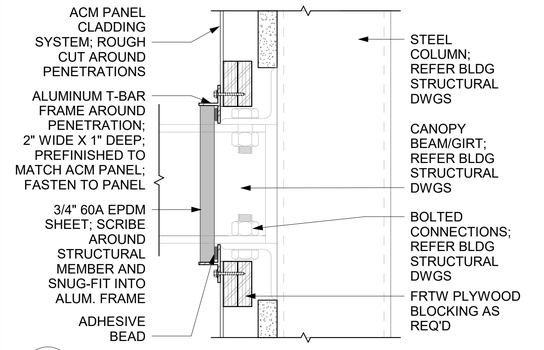
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VOLUME: 1 OF 1

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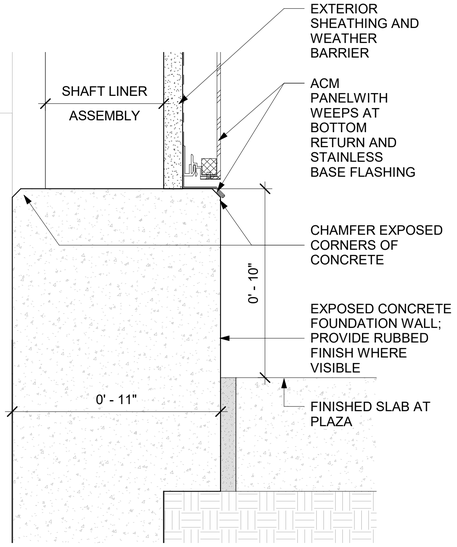
7 A-513 ACM STRUCTURE PENETRATIONS - SECTION - DEEP FRAME
SCALE: 3" = 1'-0"

0 3" 6" 9" 12"
SCALE: 3" = 1'-0"



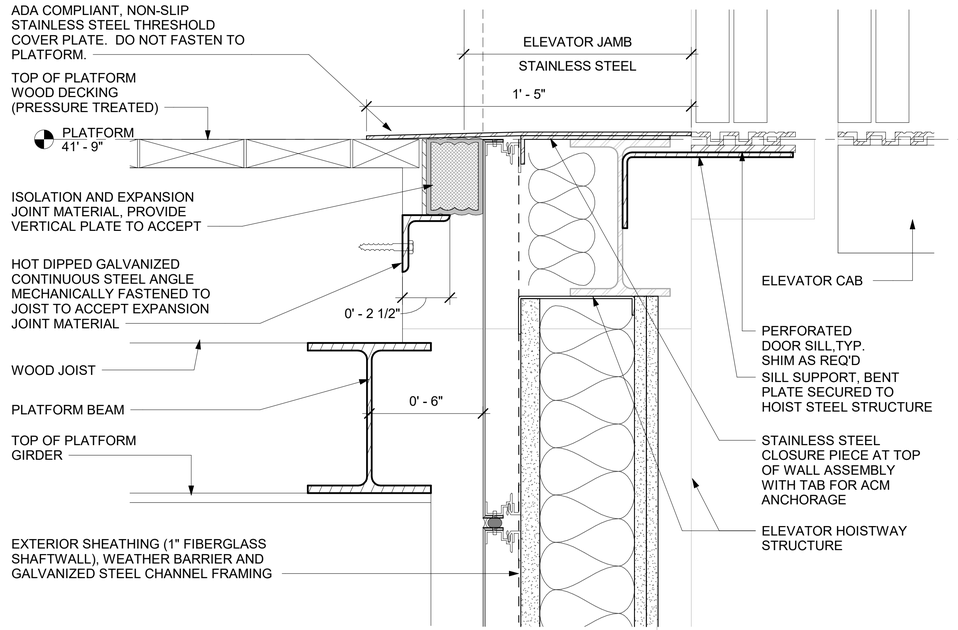
6 A-513 ACM STRUCTURE PENETRATIONS - SECTION
SCALE: 3" = 1'-0"

0 3" 6" 9" 12"
SCALE: 3" = 1'-0"



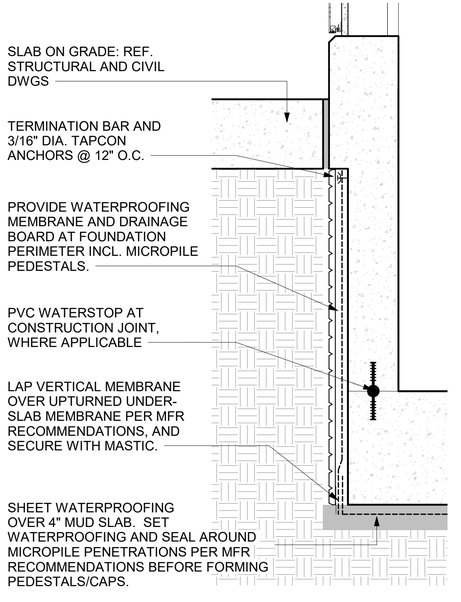
4 A-513 ELEVATOR CURB DETAIL
SCALE: 3" = 1'-0"

0 3" 6" 9" 12"
SCALE: 3" = 1'-0"



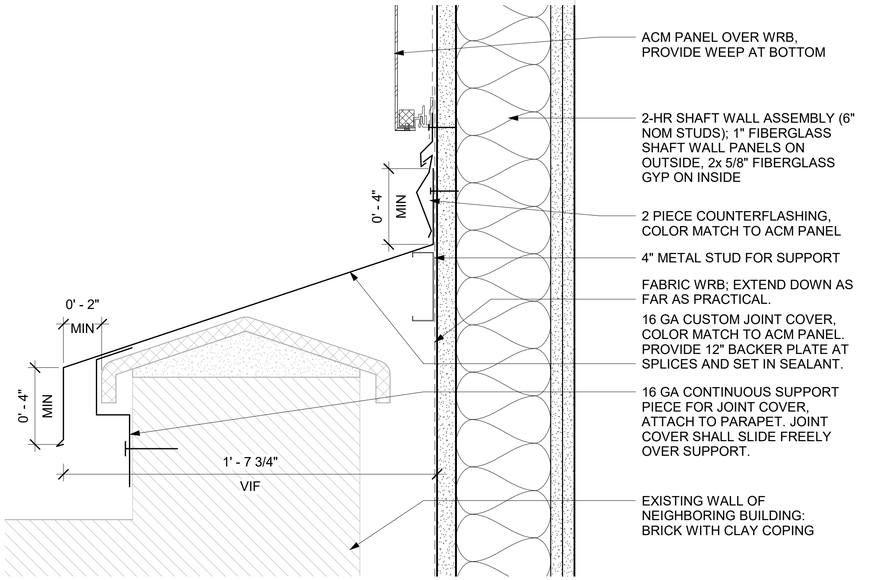
2 A-513 ELEVATOR EXPANSION DETAIL
SCALE: 3" = 1'-0"

0 3" 6" 9" 12"
SCALE: 3" = 1'-0"



3 A-513 ELEVATOR PIT - WATERPROOFING DETAIL
SCALE: 1" = 1'-0"

0 1' 2' 3'
SCALE: 1" = 1'-0"



1 A-513 ACM DETAIL AT PROPERTY LINE
SCALE: 3" = 1'-0"

0 3" 6" 9" 12"
SCALE: 3" = 1'-0"

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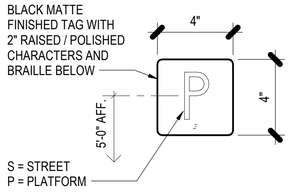
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ELEVATOR DETAILS

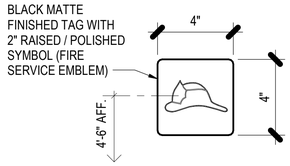
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VOLUME: 1 OF 1

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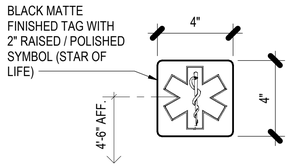
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11 A-514 ELEVATOR JAMB TAG - LEVEL IDENTIFIER
SCALE: 3" = 1'-0"
0 3" 6" 9" 12"
SCALE: 3" = 1'-0"

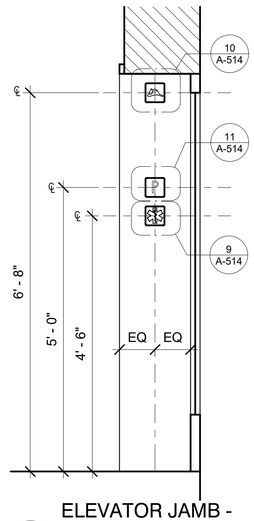


10 A-514 ELEVATOR JAMB TAG - FIRE SERVICE ACCESS
SCALE: 3" = 1'-0"
0 3" 6" 9" 12"
SCALE: 3" = 1'-0"

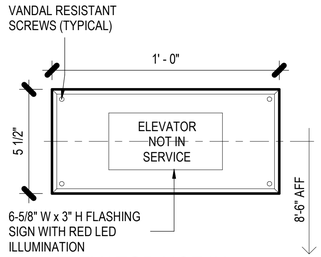


9 A-514 ELEVATOR JAMB TAG - EMERGENCY ACCESS
SCALE: 3" = 1'-0"
0 3" 6" 9" 12"
SCALE: 3" = 1'-0"

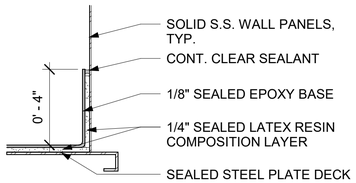
PROVIDE TAGS AT ALL LEVELS, BOTH JAMBS.



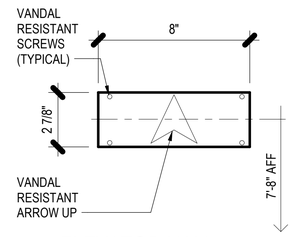
8 A-514 ELEVATOR JAMB - TYPICAL ELEVATION
SCALE: 3/4" = 1'-0"
0 1' 2' 3' 4'
SCALE: 3/4" = 1'-0"



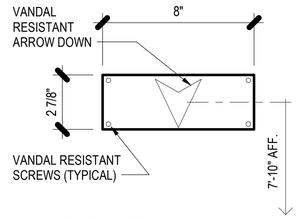
7 A-514 ELEVATOR NOT IN SERVICE SIGN
SCALE: 3" = 1'-0"
0 3" 6" 9" 12"
SCALE: 3" = 1'-0"



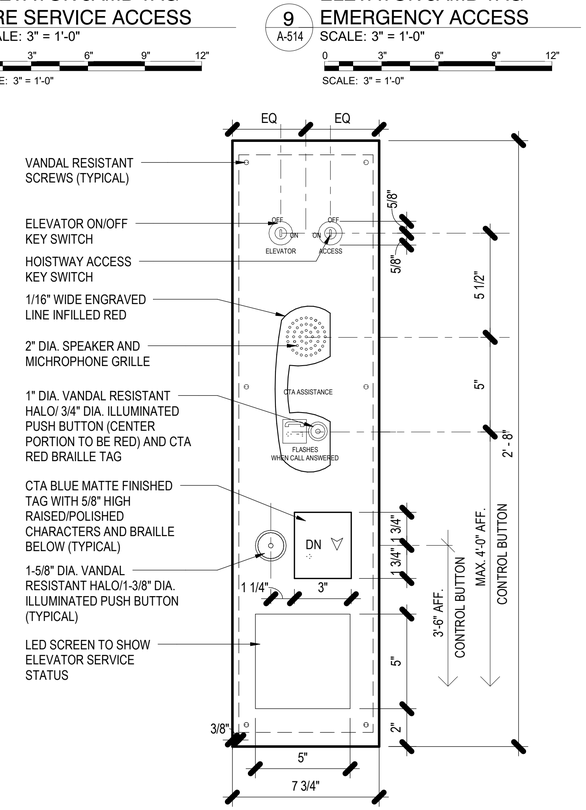
6 A-514 ELEVATOR CAB WALL BASE
SCALE: 3" = 1'-0"
0 3" 6" 9" 12"
SCALE: 3" = 1'-0"



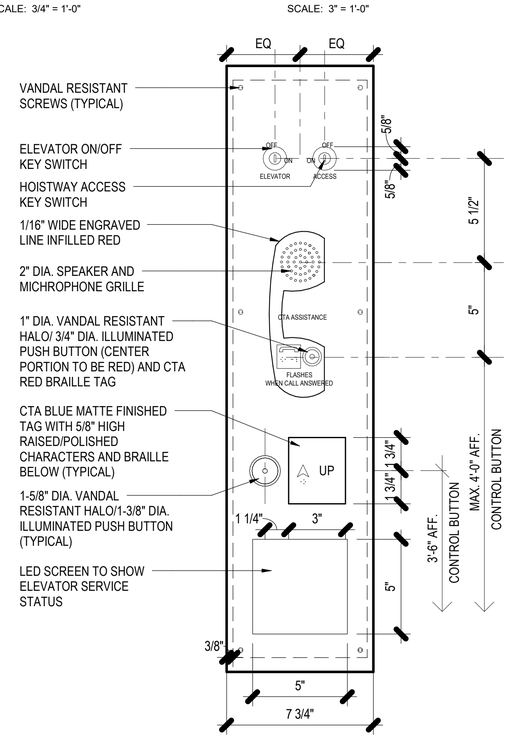
5 A-514 ELEVATOR HALL LANTERN - UP
SCALE: 3" = 1'-0"
0 3" 6" 9" 12"
SCALE: 3" = 1'-0"



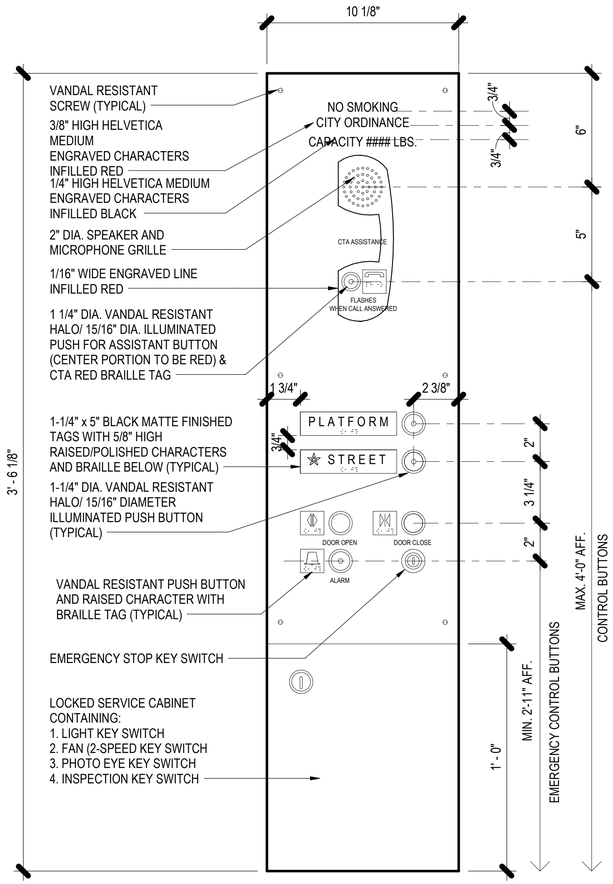
4 A-514 ELEVATOR HALL LANTERN - DN
SCALE: 3" = 1'-0"
0 3" 6" 9" 12"
SCALE: 3" = 1'-0"



3 A-514 CALL PANEL - DN
SCALE: 3" = 1'-0"
0 3" 6" 9" 12"
SCALE: 3" = 1'-0"



2 A-514 CALL PANEL - UP
SCALE: 3" = 1'-0"
0 3" 6" 9" 12"
SCALE: 3" = 1'-0"



1 A-514 ELEVATOR CONTROL PANEL DIAGRAM
SCALE: 3" = 1'-0"
0 3" 6" 9" 12"
SCALE: 3" = 1'-0"

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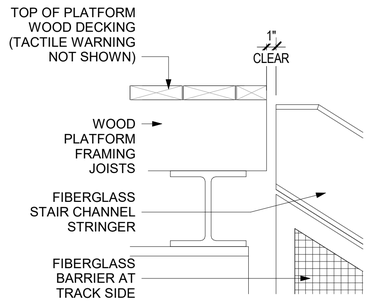
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ELEVATOR CAB DETAILS

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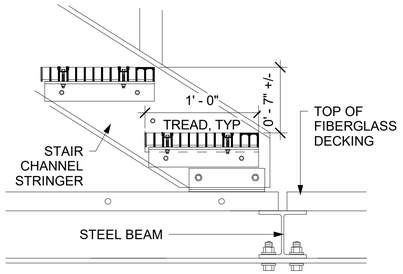


8 A-515 TRACK ACCESS STAIR CONNECTION TOP

SCALE: 1 1/2" = 1'-0"

0 1/2" 1' 1 1/2" 2'

SCALE: 1 1/2" = 1'-0"

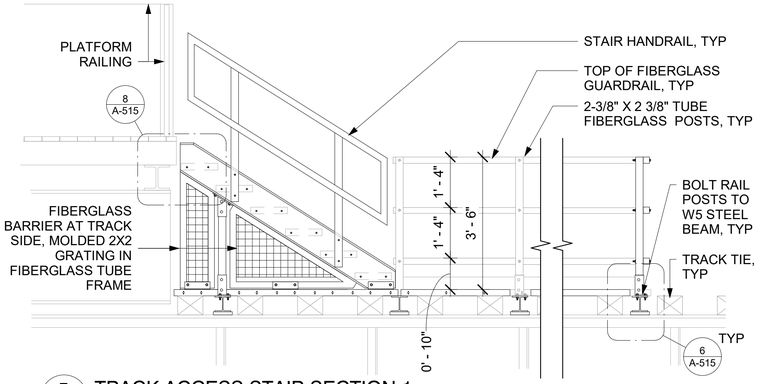


7 A-515 TRACK ACCESS STAIR CONNECTION BASE

SCALE: 1 1/2" = 1'-0"

0 1/2" 1' 1 1/2" 2'

SCALE: 1 1/2" = 1'-0"

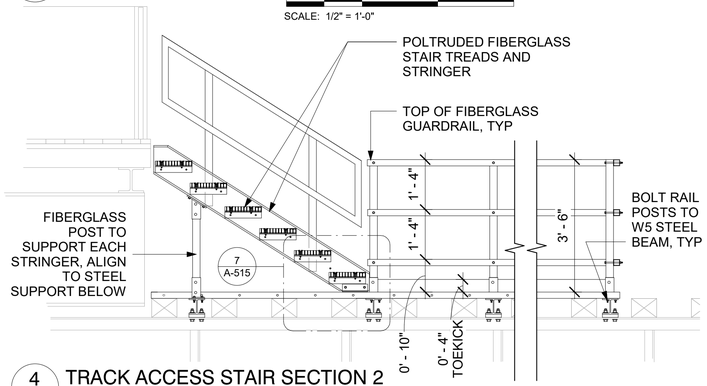


5 A-515 TRACK ACCESS STAIR SECTION 1

SCALE: 1/2" = 1'-0"

0 1' 2' 4' 6'

SCALE: 1/2" = 1'-0"



4 A-515 TRACK ACCESS STAIR SECTION 2

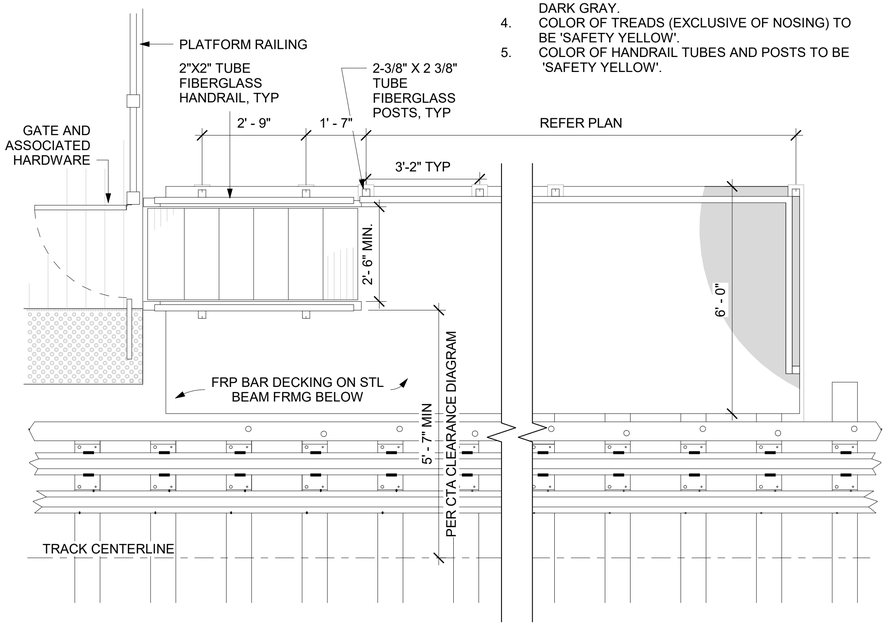
SCALE: 1/2" = 1'-0"

0 1' 2' 4' 6'

SCALE: 1/2" = 1'-0"

GENERAL NOTES

1. FIBERGLASS DECK BEARING BARS TO BE 5/8" WIDE BY 2" TALL SPACED 1½" ON CENTER.
2. HAND RAIL POSTS AT FIBERGLASS PLATFORM DECK TO BE "DOUBLE WALL" WITH A 2X2 TUBE SECTION GLUED INSIDE OF THE LARGER 2-3/8"x2-3/8" TUBE SECTION.
3. COLOR OF FIBERGLASS STRINGERS, GUARDRAIL TUBES AND DECKING TO BE DARK GRAY.
4. COLOR OF TREADS (EXCLUSIVE OF NOSING) TO BE 'SAFETY YELLOW'.
5. COLOR OF HANDRAIL TUBES AND POSTS TO BE 'SAFETY YELLOW'.

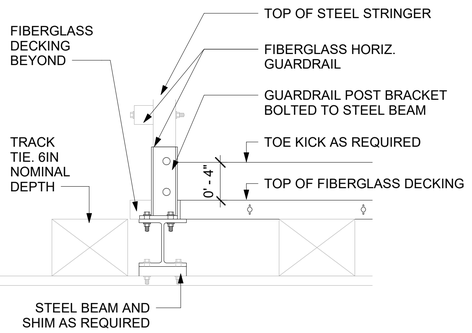


2 A-515 TRACK ACCESS STAIR PLAN

SCALE: 1/2" = 1'-0"

0 1' 2' 4' 6'

SCALE: 1/2" = 1'-0"

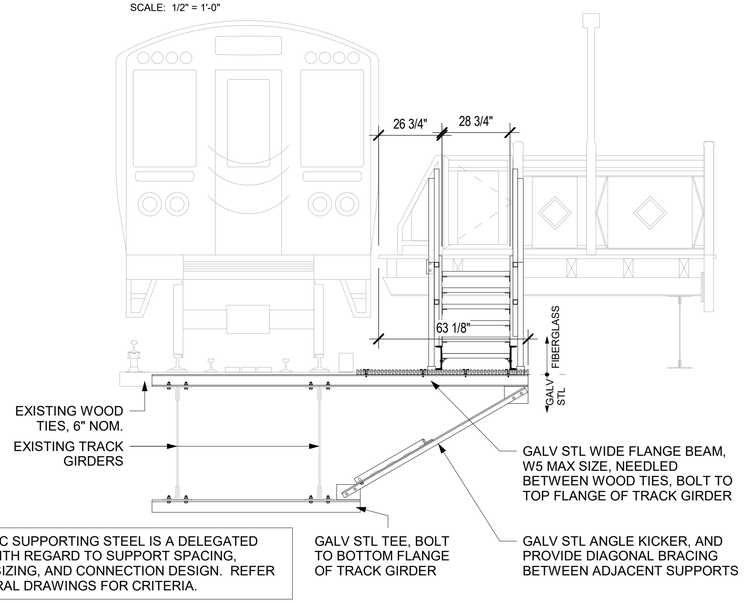


6 A-515 TRACK ACCESS POST CONNECTION

SCALE: 1 1/2" = 1'-0"

0 1/2" 1' 1 1/2" 2'

SCALE: 1 1/2" = 1'-0"



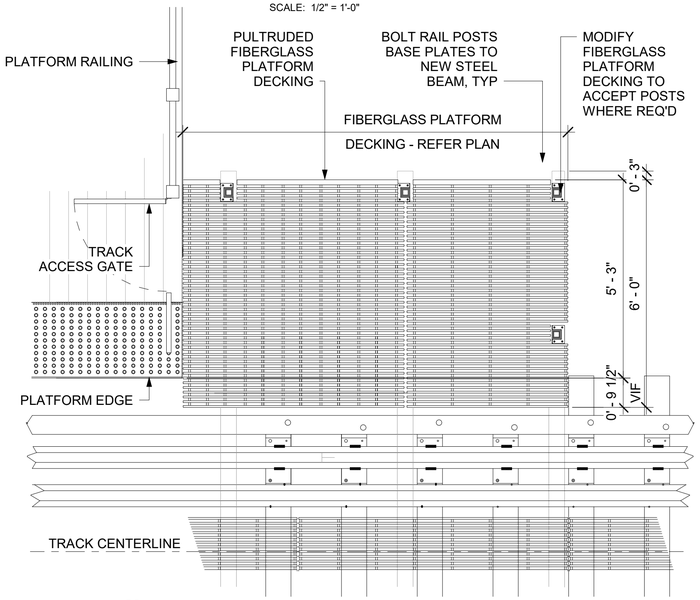
NOTE: MISC SUPPORTING STEEL IS A DELEGATED DESIGN WITH REGARD TO SUPPORT SPACING, MEMBER SIZING, AND CONNECTION DESIGN. REFER STRUCTURAL DRAWINGS FOR CRITERIA.

3 A-515 TRACK ACCESS STAIR FRONT ELEVATION

SCALE: 3/8" = 1'-0"

0 2' 4' 6' 8'

SCALE: 3/8" = 1'-0"



1 A-515 TRACK ACCESS STAIR PLAN AT TRACK

SCALE: 1/2" = 1'-0"

0 1' 2' 4' 6'

SCALE: 1/2" = 1'-0"

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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	M. KINDELIN
CHECKED BY	JW
DESIGNED BY	JW
DRAWN BY	JW, JC, RS, HN

MARK	DATE	DESCRIPTION
0	12/30/2024	ISSUE FOR BID

TRACK ACCESS STAIR DETAILS

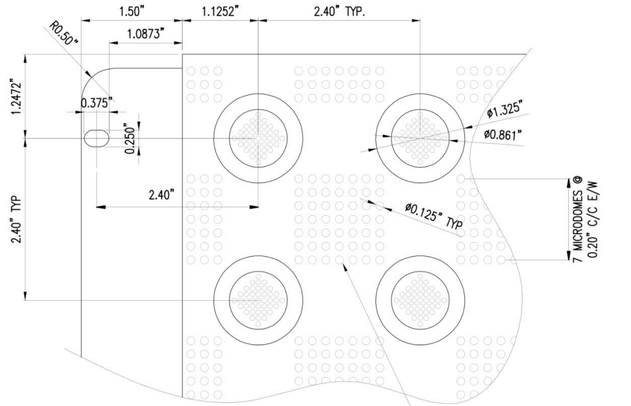
LSCAL

A-515

VOLUME: 1 OF 1

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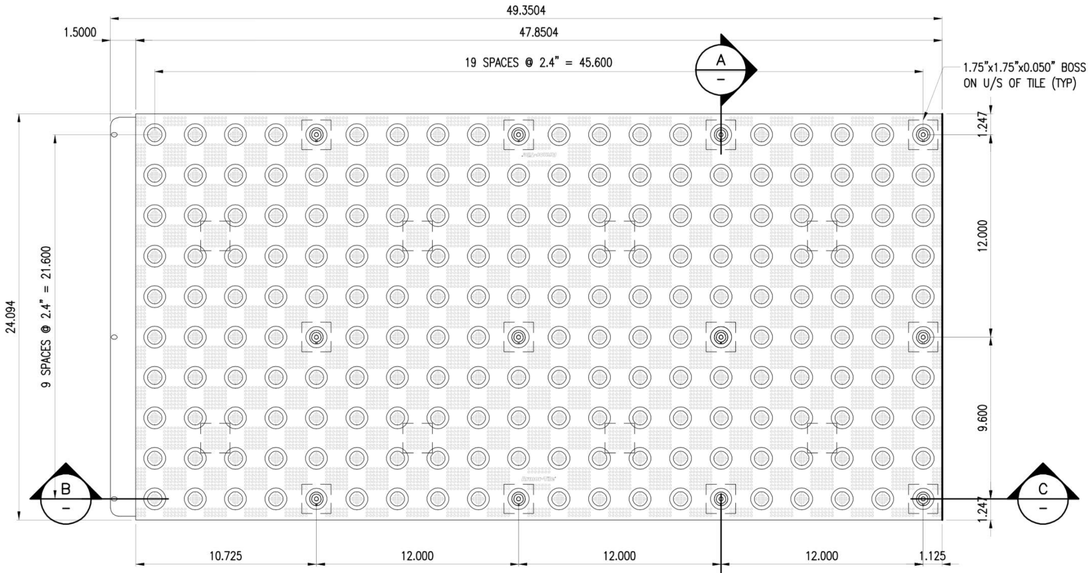
DETAIL 1 @ TOP FACE

SCALE: 6" = 1'-0"

FIELD LEVEL MICRO-TEXTURE:
49 0.125"ø 0.03125" HIGH DOMES PER AREA

0 1" 2" 3" 4" 5" 6"

SCALE: 6" = 1'-0"

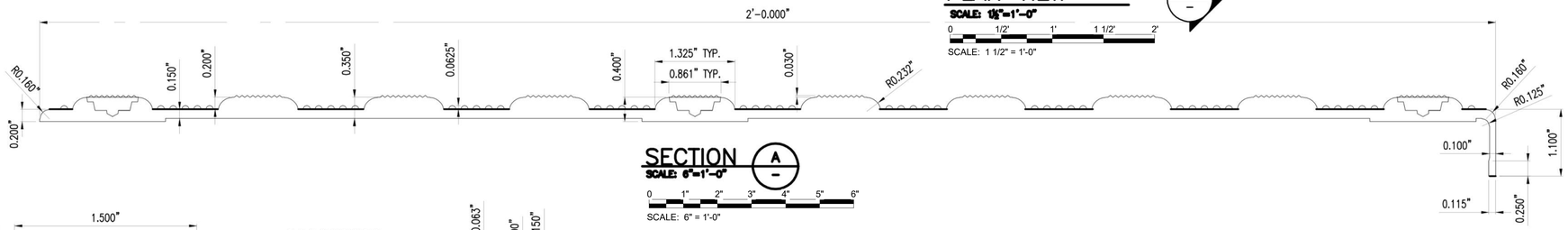


PLAN VIEW

SCALE: 1½"=1'-0"

0 1/2' 1' 1 1/2' 2'

SCALE: 1 1/2" = 1'-0"

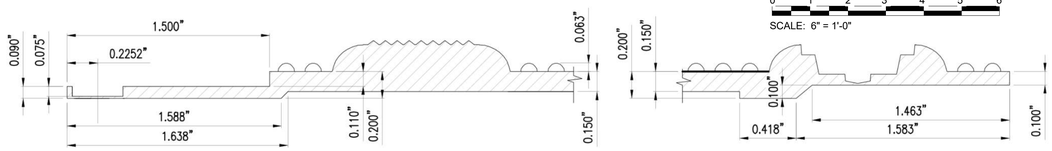


SECTION A

SCALE: 6"=1'-0"

0 1" 2" 3" 4" 5" 6"

SCALE: 6" = 1'-0"

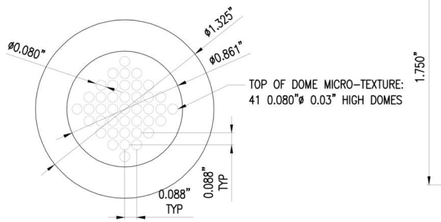


SECTION B

SCALE: 1'-0"=1'-0"

SECTION C

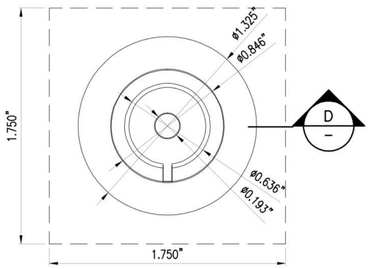
SCALE: 1'-0"=1'-0"



TOP OF DOME MICRO-TEXTURE:
41 0.080"ø 0.03" HIGH DOMES

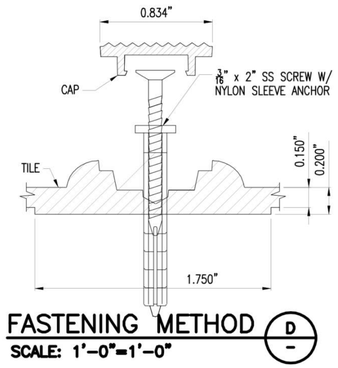
PLAN @ DOME

SCALE: 1'-0"=1'-0"



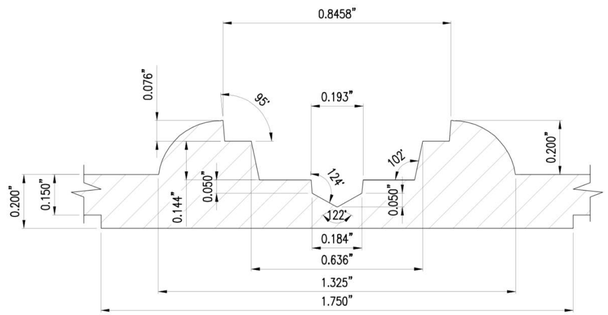
PLAN @ FASTENER RECESS

SCALE: 1'-0"=1'-0"



FASTENING METHOD

SCALE: 1'-0"=1'-0"



SECTION @ FASTENER RECESS

SCALE: 2'-0"=1'-0"

D

HNTB Corporation
One South Wacker Drive, Suite 900
Chicago, Illinois 60606
(312) 930-9119

JOHNSON LASKY KINDELIN ARCHITECTS

CHICAGO TRANSIT AUTHORITY
ENGINEERING

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DETECTABLE WARNING TILE DETAILS

LSCAL | A-516

VOLUME: 1 OF 1

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Roxtec

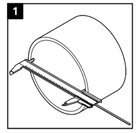
Installation instructions
Roxtec RS UG™ seal

Installation in a Roxtec knock-out sleeve



Remove the knock-out plate of the sleeve before inserting the seal.

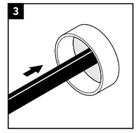
Installation



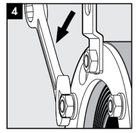
Make or verify an aperture.



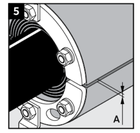
Clean the aperture.



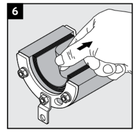
Pull the cable/pipe straight and centered through the aperture.



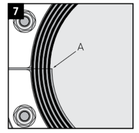
Loosen all the nuts.



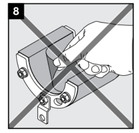
Achieve a 0-1.0 mm (A) gap between the two halves when held against the cable/pipe.



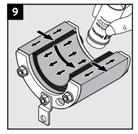
Adapt the RS UG seal by peeling off layers..



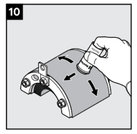
The number of layers may not differ (A) by more than one between the corresponding seal halves.



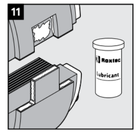
Do not remove the last layer.



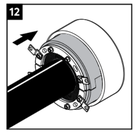
Lubricate the inside sealing surfaces with Roxtec Lubricant.



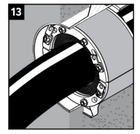
Lubricate the outer sealing surfaces sparsely with Roxtec Lubricant, if needed.



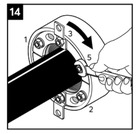
Lubricate sharp corners thoroughly.



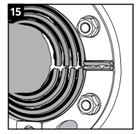
Insert the halves into the sleeve.



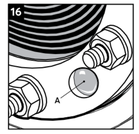
Fold or remove the tabs to insert the seal further.



Firmly tighten the nuts crosswise in small steps.



Bulging rubber and visible protruding lubricant indicate a tight seal.



The inner rubber part shall create a visible bulge (A) in each hole.

Check additional documentation, if applicable.

Note

- An RS UG seal with center core can be used as spare capacity.
- Wait 24 hours after installation before exposing the cables/pipes to strain or pressure.
- Cables/pipes shall be parallel to the sleeve/aperture.
- Cable/pipe with a considerable weight needs to be supported to prevent damage or subsidence to the seal.
- Do not peel off the last rubber layer of each sealing half.
- Approvals or certificates may include amendments or limitations related to this application.
- The latest version of this and related documents are found at roxtec.com.

ROXTEC USED AS BASIS OF DESIGN. REFER SPECS FOR ALTERNATE APPROVED MANUFACTURERS.

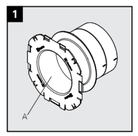
4 A-517 ELEVATOR PIT - WATERTIGHT SEAL INSTALLATION (FOR REFERENCE ONLY)

NTS

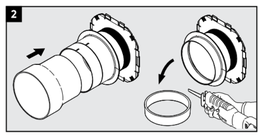
Roxtec

Installation instructions
Roxtec Knock-out sleeve

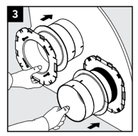
Installation



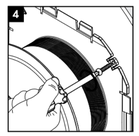
Placement of seal (A).



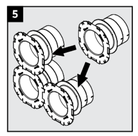
The sleeve can be extended by a conduit or cut to fit actual wall thickness.



Mounting alternatives.



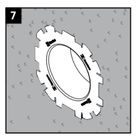
Fasten the sleeve to the shutter.



A number of sleeves can be snapped together.



Use watertight concrete with suitable aggregate size.



Casted sleeve.

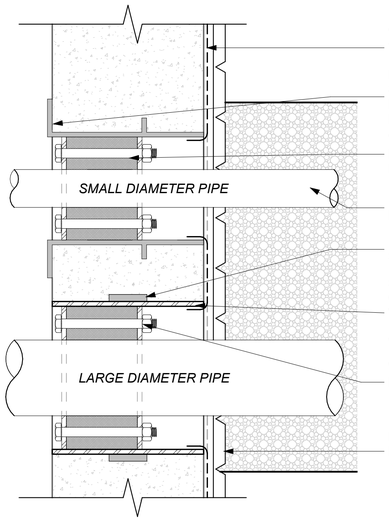
Note

- Standard pipe dimensions differ between regions. Consult the information drawing on roxtec.com for guidance.
- Roxtec casting guidelines are available.

ROXTEC USED AS BASIS OF DESIGN. REFER SPECS FOR ALTERNATE APPROVED MANUFACTURERS.

2 A-517 ELEVATOR PIT - PLASTIC INSERT INSTALLATION (FOR REFERENCE ONLY)

NTS



APPLIED WATERPROOFING ON EXTERIOR FACE OF FOUNDATION. REFER DETAIL 3 / A-513 WRAP INTO PIPE SLEEVES AND TERMINATE

MANUFACTURER'S PREFAB WALL SLEEVE, INSERT INTO FORMWORK BEFORE POURING WALL. REFER DETAIL 2 / A-517

WATERPROOF SEAL IN SLEEVE, NITRILE RUBBER. REFER DETAIL 4 / A-517

ELEVATOR HYDRAULIC PIPES BEDDED IN GRAVEL TRENCH

HYDROPHILIC WATERSTOP STRIP, WRAP AROUND PIPE

STAINLESS STEEL PIPE, COORDINATE INNER DIAMETER WITH WATERPROOF SEAL REQTS. INSERT INTO FORMWORK BEFORE POURING WALL. REFER DETAIL 3 / A-517

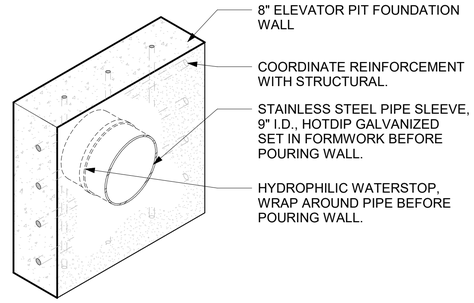
WATERPROOF SEAL IN SLEEVE, NITRILE RUBBER. REFER DETAIL 4 / A-517

DRAINAGE BOARD, CUT AROUND PIPES TO PREVENT GRAVEL FROM ENTERING SLEEVES

5 A-517 ELEVATOR PIT WALL OPENING

SCALE: 3" = 1'-0"

SCALE: 3" = 1'-0"



8" ELEVATOR PIT FOUNDATION WALL

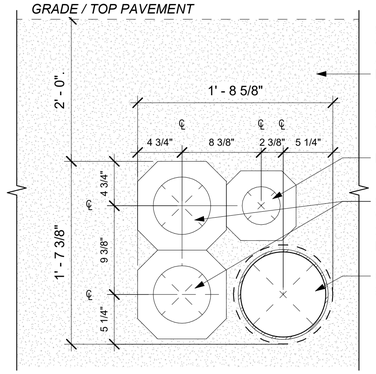
COORDINATE REINFORCEMENT WITH STRUCTURAL.

STAINLESS STEEL PIPE SLEEVE, 9" I.D., HOTDIP GALVANIZED SET IN FORMWORK BEFORE POURING WALL.

HYDROPHILIC WATERSTOP, WRAP AROUND PIPE BEFORE POURING WALL.

3 A-517 ELEVATOR PIT - STEEL SLEEVE

NTS



8" THICK CONCRETE FOUNDATION WALL AT ELEVATOR PIT. COORDINATE ALL INSERTS AND SLEEVES WITH REINFORCEMENT.

8" DEEP PLASTIC INSERT WITH KNOCKOUT, SIZED FOR 1" NOMINAL PIPE. REFER DETAIL 2 / A-517

8" DEEP PLASTIC INSERT WITH KNOCKOUT, SIZED FOR 3" NOMINAL PIPE. REFER DETAIL 2 / A-517

GALV STEEL PIPE SLEEVE, 9" I.D. REFER DETAIL 3 / A-517

1 A-517 ELEVATOR PIT - PIPE SLEEVE CLUSTER

SCALE: 1 1/2" = 1'-0"

SCALE: 1 1/2" = 1'-0"

HNTB Corporation
One South Wacker Drive, Suite 900
Chicago, Illinois 60606
(312) 930-9119

JOHNSON LASKY KINDELIN ARCHITECTS

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PIPE SLEEVE DETAILS

LSCAL | A-517

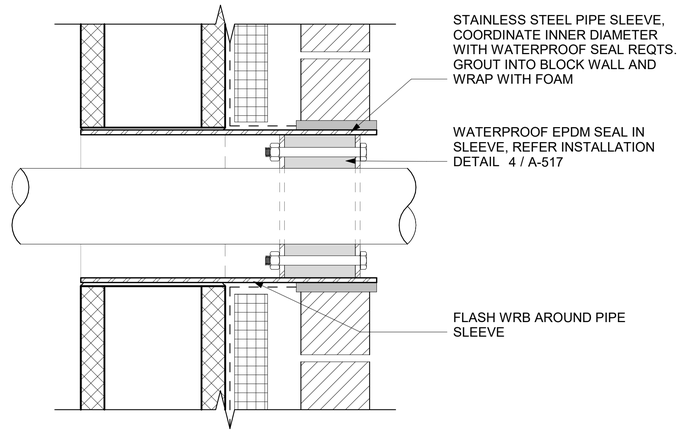
VOLUME: 1 OF 1

12/16/2024 5:10:00 PM

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12/16/2024 5:11:00 PM

Autodesk Docs://64058_CTA-Logan-California/MOD_ARC_CA-ASAP_R2022.rvt

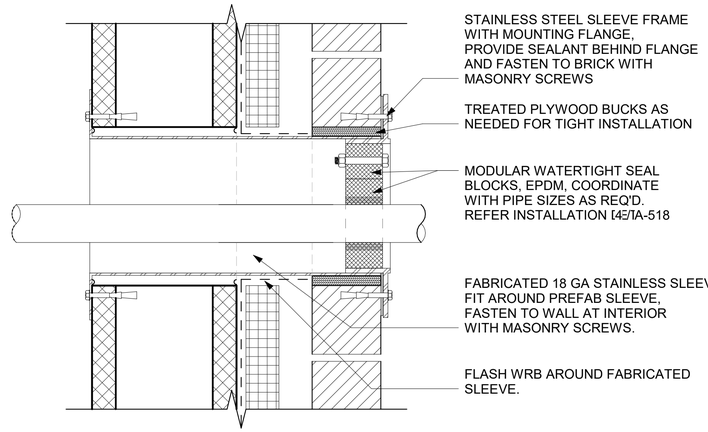


3 A-518 ELEVATOR ROOM - PIPE SLEEVE AND SEAL SECTION - ROUND

SCALE: 3" = 1'-0"

0 3" 6" 9" 12"

SCALE: 3" = 1'-0"

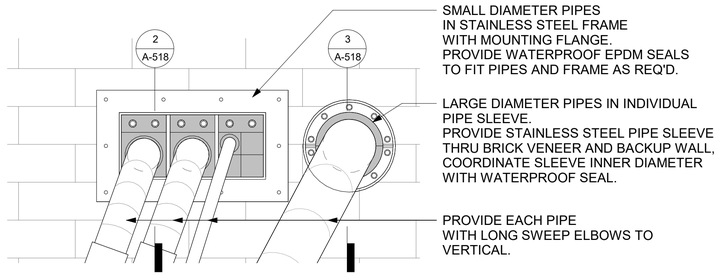


2 A-518 ELEVATOR ROOM - PIPE SLEEVE AND SEAL SECTION

SCALE: 3" = 1'-0"

0 3" 6" 9" 12"

SCALE: 3" = 1'-0"



1 A-518 ELEVATOR ROOM - PIPE SLEEVE AND SEAL ELEVATION

SCALE: 1 1/2" = 1'-0"

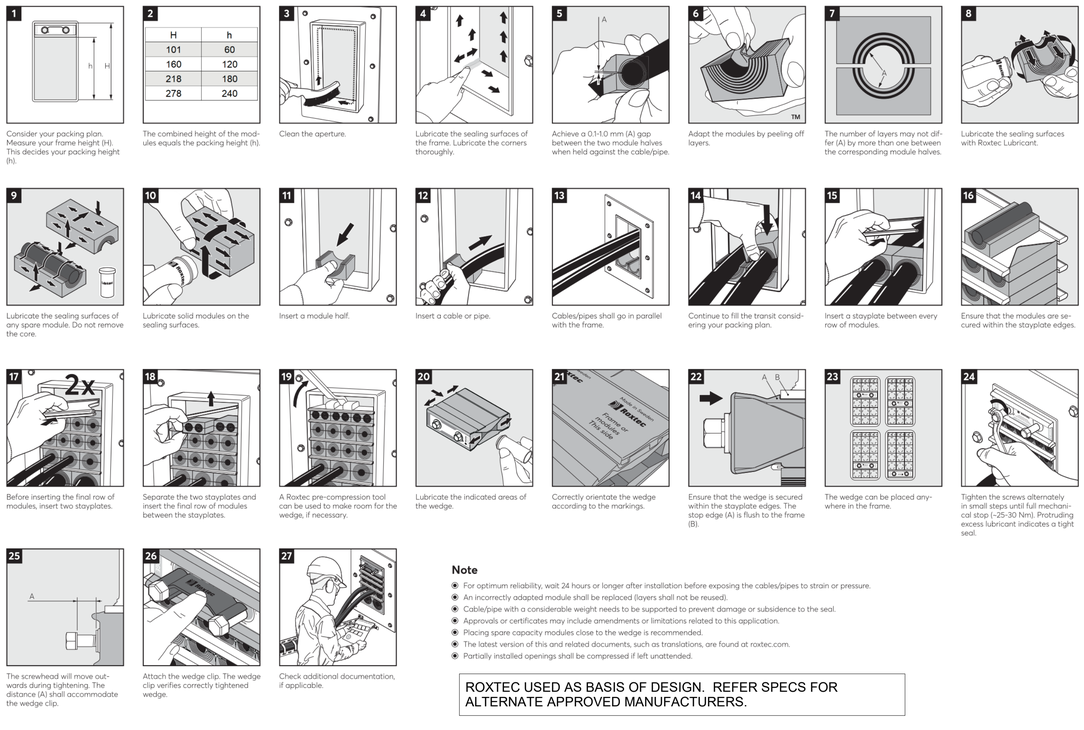
0 1/2' 1' 1 1/2' 2'

SCALE: 1 1/2" = 1'-0"

Installation

Roxtec

Installation instructions
Roxtec rectangular systems



Note

- For optimum reliability, wait 24 hours or longer after installation before exposing the cables/pipes to strain or pressure.
- An incorrectly adapted module shall be replaced (layers shall not be reused).
- Cable/pipe with a considerable weight needs to be supported to prevent damage or subsidence to the seal.
- Approvals or certificates may include amendments or limitations related to this application.
- Placing spare capacity modules close to the wedge is recommended.
- The latest version of this and related documents, such as translations, are found at roxtec.com.
- Partially installed openings shall be compressed if left unattended.

ROXTEC USED AS BASIS OF DESIGN. REFER SPECS FOR ALTERNATE APPROVED MANUFACTURERS.

4 A-518 ELEVATOR MACHINE ROOM - WATERTIGHT SEAL INSTALLATION (FOR REFERENCE ONLY)

NTS

HNTB Corporation
One South Wacker Drive, Suite 900
Chicago, Illinois 60606
(312) 930-9119

JOHNSON LASKY KINDELIN ARCHITECTS

CHICAGO TRANSIT AUTHORITY
ENGINEERING

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ALL STATIONS ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

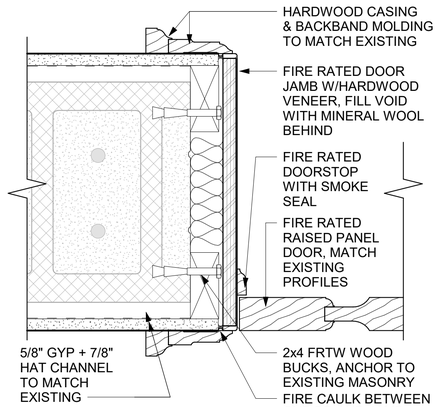
PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	M. KINDELIN
CHECKED BY	JW
DESIGNED BY	JW
DRAWN BY	JW, JC, RS, HN

MARK	DATE	DESCRIPTION
0	12/30/2024	ISSUE FOR BID

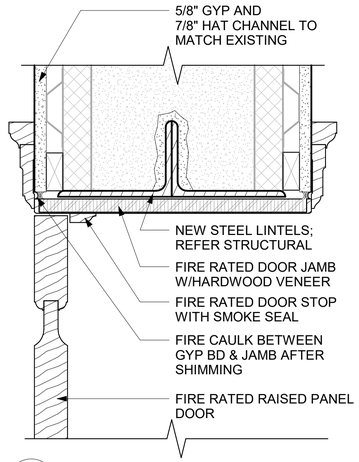
PIPE SLEEVE DETAILS

LSCAL A-518

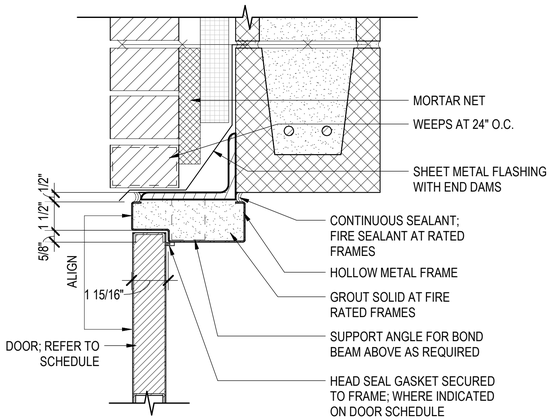
VOLUME: 1 OF 1



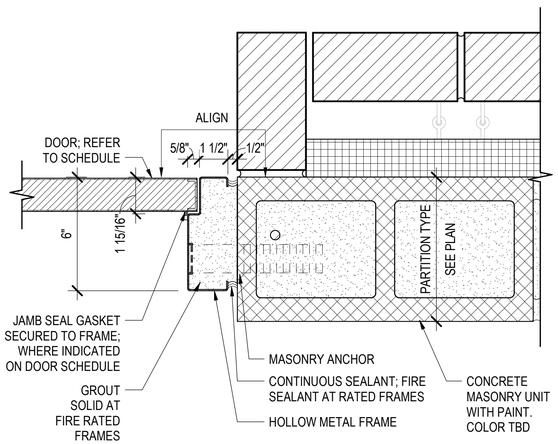
9 A-601 DETAIL - DOOR 01D - JAMB
SCALE: 3" = 1'-0"



8 A-601 DETAIL - DOOR 01D - HEAD
SCALE: 3" = 1'-0"



7 A-601 CMU HEAD DETAIL
SCALE: 3" = 1'-0"



6 A-601 CMU JAMB DETAIL
SCALE: 3" = 1'-0"

ROOM SCHEDULE

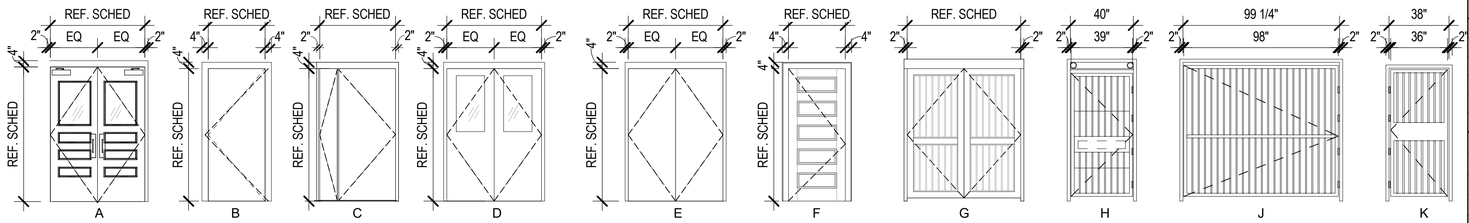
Number	Name	Level	Area	Wall Finish	Ceiling Finish	Floor Finish	Comments
1	STATIONHOUSE	STATION LEVEL	695 SF	EXISTING TO REMAIN - NIC	EXISTING TO REMAIN - NIC	NIC	EXISTING NIC
1A	TOILET ROOM	STATION LEVEL	42 SF	EXISTING TO REMAIN - NIC	EXISTING TO REMAIN - NIC	NIC	EXISTING NIC
1B	JAN CLOSET	STATION LEVEL	23 SF	EXISTING TO REMAIN - NIC	EXISTING TO REMAIN - NIC	NIC	EXISTING NIC
1C	STORAGE	STATION LEVEL	32 SF	EXISTING TO REMAIN - NIC	EXISTING TO REMAIN - NIC	NIC	EXISTING NIC
1D	ELEC CLOSET	STATION LEVEL	35 SF	PAINTED	PAINTED GWB	SEALED CONC	
2	ELEVATOR #2 INBOUND	STATION LEVEL	57 SF	SS/GL	SS	EPOXY FLOORING	REFERS TO CAB FINISHES
3	ELEVATOR #1 OUTBOUND	STATION LEVEL	58 SF	SS/GL	SS	EPOXY FLOORING	REFERS TO CAB FINISHES
4	OUTBOUND ELEV MACHINE ROOM	STATION LEVEL	188 SF	PAINTED	SPRAY FIREPROOFING	SEALED CONC	
5	ELECTRICAL ROOM	STATION LEVEL	425 SF	PAINTED	SPRAY FIREPROOFING	SEALED CONC	DIELECTRIC FLOOR COATING
6	INBOUND ELEV MACHINE ROOM	STATION LEVEL	188 SF	PAINTED	SPRAY FIREPROOFING	SEALED CONC	

DOOR SCHEDULE

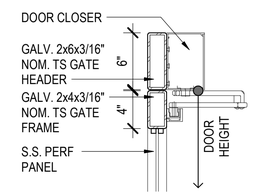
MARK	DOOR TYPE	DOOR MATERIAL	NOM WIDTH	NOM HEIGHT	THICKNESS	JAMB DETAIL	HEAD DETAIL	FIRE RATING	HARDWARE	DESCRIPTION	NOTES
01A	A	WOOD	5' - 0"	7' - 2"	0' - 1 3/4"	EXISTING	EXISTING		25	EXISTING DBL STATIONHOUSE DOOR - NEW MANUAL HARDWARE	A,F,H
01B	A	WOOD	5' - 0"	7' - 2"	0' - 1 3/4"	EXISTING	EXISTING		26	EXISTING DBL STATIONHOUSE DOOR - NEW ADA OPERATOR HARDWARE	A,F,H
01D	F	WOOD/MINERAL CORE	3' - 0"	6' - 8"	0' - 1 3/8"	9/A-601	8/A-601	45MIN	27	STATIONHOUSE ELEC ROOM / HISTORIC RAISED PANEL DESIGN	A,B
04	C	ST STL	4' - 0"	7' - 0"	0' - 1 3/4"	6/A-601	7/A-601	1 HOUR	11	ELEVATOR ROOM DOOR	A,B
05A	E	ST STL	6' - 0"	8' - 0"	0' - 1 3/4"	6/A-601	7/A-601	1 HOUR	12B	ELECTRICAL ROOM DOORS	A,B
05B	B	ST STL	3' - 0"	7' - 0"	0' - 1 3/4"	6/A-601	7/A-601	1 HOUR	12	ELECTRICAL ROOM DOOR	A,B
06	C	ST STL	4' - 0"	7' - 0"	0' - 1 3/4"	6/A-601	7/A-601	1 HOUR	11	ELEVATOR ROOM DOOR	A,B
G01A	H	ST STL	3' - 0"	6' - 8"	0' - 2"	10/A-509	9/A-509		19	GATE - STATIONHOUSE FARE ARRAY	C
G01B	H	ST STL	3' - 0"	6' - 8"	0' - 2"	10/A-509	9/A-509		19	GATE - STATIONHOUSE FARE ARRAY	C
G02	G	GALV STL	6' - 0"	7' - 0"	0' - 2"	1/A-601	5/A-601		18	GATE - ST GEORGES COURT STAIRS PLATFORM EGRESS	A,D
G03	G	GALV STL	6' - 0"	7' - 0"	0' - 2"	1/A-601	5/A-601		18	GATE - ST GEORGES COURT STAIRS PLATFORM EGRESS	A,D
G04	K	GALV STL	3' - 0"	6' - 8"	0' - 2"	10/A-509	9/A-509		18	GATE - ACCESS TO ELEC BLDG ENCLOSURE FROM PAID PLAZA	
G05		GALV CHAINLINK	8' - 6"	9' - 0"	0' - 2"					GATE - ELEC BUILDING YARD GATE	E
G06		GALV CHAINLINK	8' - 6"	9' - 0"	0' - 2"					GATE - ELEC BUILDING YARD GATE	E
G07		GALV CHAINLINK	8' - 6"	9' - 0"	0' - 2"					GATE - ELEC BUILDING YARD GATE	E
G08	J	GALV STL	8' - 2"	7' - 0"	0' - 2"				16	GATE - ST GEORGES COURT STAIRS SECURITY CLOSURE	
G09	J	GALV STL	8' - 2"	7' - 0"	0' - 2"				16	GATE - ST GEORGES COURT STAIRS SECURITY CLOSURE	
G10		GALV STL	2' - 6"	3' - 6"	0' - 3"				21	GATE - SOUTH END OF PLATFORM (OUTBOUND)	
G11		GALV STL	3' - 0"	3' - 6"	0' - 3"				21	GATE - SOUTH END OF PLFM (INBOUND) - EXISTING TO REMAIN	
G12		GALV STL	3' - 0"	3' - 6"	0' - 3"				21	GATE - NORTH END OF PLATFORM PUBLIC AREA (OUTBOUND)	
G13		GALV CHAINLINK	7' - 0"	9' - 0"	0' - 2"					GATE - ELEC BUILDING YARD GATE - SLIDING WITH WHEEL	K
G14		GALV CHAINLINK	16' - 6"	9' - 0"	0' - 2"					GATE - ELEC BUILDING YARD GATE - SLIDING CANTILEVER (DOUBLE)	L
G15		GALV CHAINLINK	10' - 0"	8' - 0"	0' - 2"					GATE, AREA UNDER STAIR #2	E
T01	D	HM	6' - 0"	7' - 0"	0' - 2"				01	TEMP - TEMP STATION DOORS	D
T02	D	HM	6' - 0"	7' - 0"	0' - 2"				05	TEMP - TEMP STATION DOORS	D
TG01		GALV STL	2' - 8"	6' - 8"	0' - 2"				19	TEMP - FARE ARRAY GATE	C

HARDWARE NOTES:
1. SEE SPEC FOR HARDWARE

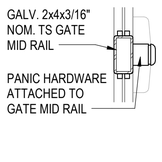
DOOR SCHEDULE NOTES:
A. EQUIP DOOR WITH DOOR CONTACT ALARM. SEE ELECT DWGS.
B. PROVIDE KNURLED HANDLES
C. PROVIDE PANIC HARDWARE (SINGLE DOOR)
D. PROVIDE PANIC HARDWARE WITH CONCEALED VERTICAL ROD/CABLE (DOUBLE DOOR)
E. PROVIDE TYPICAL YARD CHAINLINK GATE HARDWARE AS SCHEDULED.
F. REMOVE AND REFINISH EXISTING DOOR 01A TO MATCH DOOR 01B. INSTALL NEW HARDWARE AS SCHEDULED.
G. SALVAGE EXISTING ENAMEL "PUSH" AND "PULL" SIGNS FOR REUSE
H. PROVIDE PANIC HARDWARE WITH SURFACE VERTICAL ROD/CABLE (DOUBLE DOOR)
J. PROVIDE PANIC HARDWARE WITH CENTER POST AT DOUBLE DOOR
K. PROVIDE SLIDING GATE HARDWARE W/ CASTER/WHEEL
L. PROVIDE SLIDING CANTILEVER GATE HARDWARE



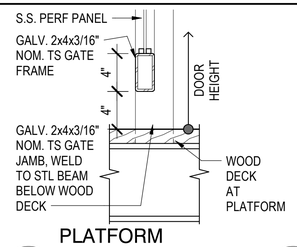
DOOR AND FRAME TYPES
SCALE: 1/4" = 1'-0"



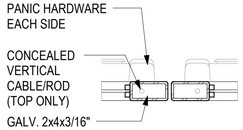
5 A-601 PLATFORM GATE - HEAD
SCALE: 1 1/2" = 1'-0"



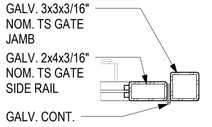
4 A-601 PLATFORM GATE - MID SPAN
SCALE: 1 1/2" = 1'-0"



3 A-601 PLATFORM GATES - SILL
SCALE: 1 1/2" = 1'-0"



2 A-601 PLATFORM GATES - MEETING STILE
SCALE: 1 1/2" = 1'-0"



1 A-601 PLATFORM GATES - JAMB/HINGE
SCALE: 1 1/2" = 1'-0"

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CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	M. KINDELIN
CHECKED BY	JW
DESIGNED BY	JW
DRAWN BY	JW, JC, RS, HN

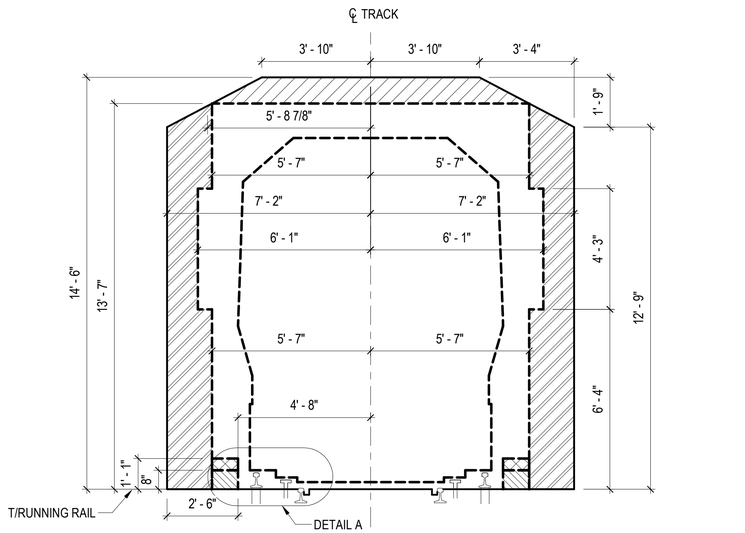
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ROOM AND DOOR SCHEDULE AND DOOR DETAILS

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VOLUME: 1 OF 1

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THIS AREA FOR INTERMITTENT OCCUPANCY BY SIGNALS, SIGNS, LIGHTS, AND COMMUNICATIONS EQUIPMENT

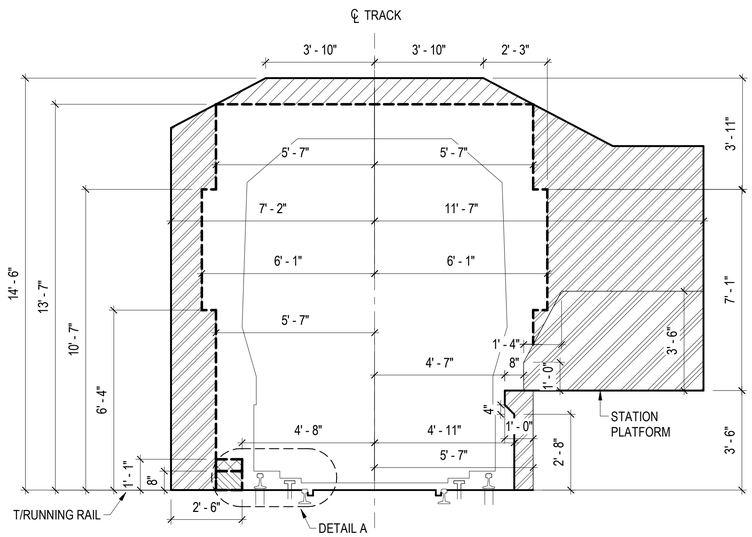
13'-6" CLEARANCE PERMITTED FOR STATION CANOPIES, OR AS SPECIFIED BY THE ENGINEER

THIS AREA FOR INTERMITTENT OCCUPANCY OF SWITCH STANDS

THIS AREA FOR SIGNAL EQUIPMENT, POWER DISTRIBUTION, ETC.

2 A-900 CTA CLEARANCE NON BOARDING

SCALE: 3/8" = 1'-0"



NOTES:

1. RIGHT SIDE OF DRAWING DETAILS PLATFORM SIDE OF STATION AREAS.
2. LEFT SIDE OF DRAWING DETAILS WALKWAY SIDE OF STATION AREAS.

THIS AREA FOR INTERMITTENT OCCUPANCY BY SIGNALS, SIGNS, LIGHTS, AND COMMUNICATIONS EQUIPMENT

13'-6" CLEARANCE PERMITTED FOR STATION CANOPIES, OR AS SPECIFIED BY THE ENGINEER

THIS AREA FOR INTERMITTENT OCCUPANCY OF SWITCH STANDS

THIS AREA FOR SIGNAL EQUIPMENT, POWER DISTRIBUTION, ETC.

THIS AREA PLATFORM HANDRAILS ONLY

1 A-900 CTA CLEARANCE DIAGRAM BOARDING

SCALE: 3/8" = 1'-0"

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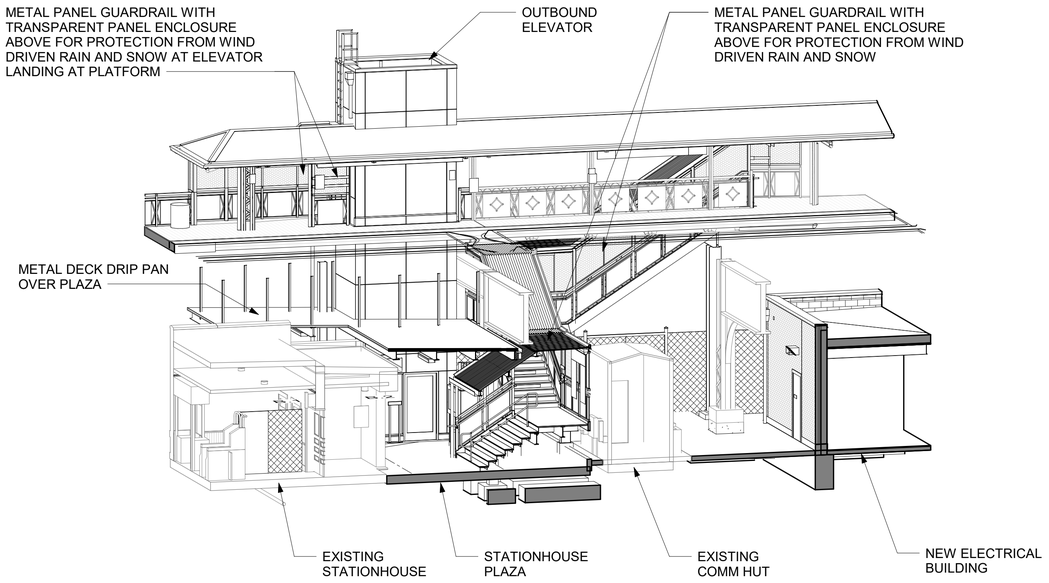
MARK	DATE	DESCRIPTION
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CTA CLEARANCE DIAGRAMS

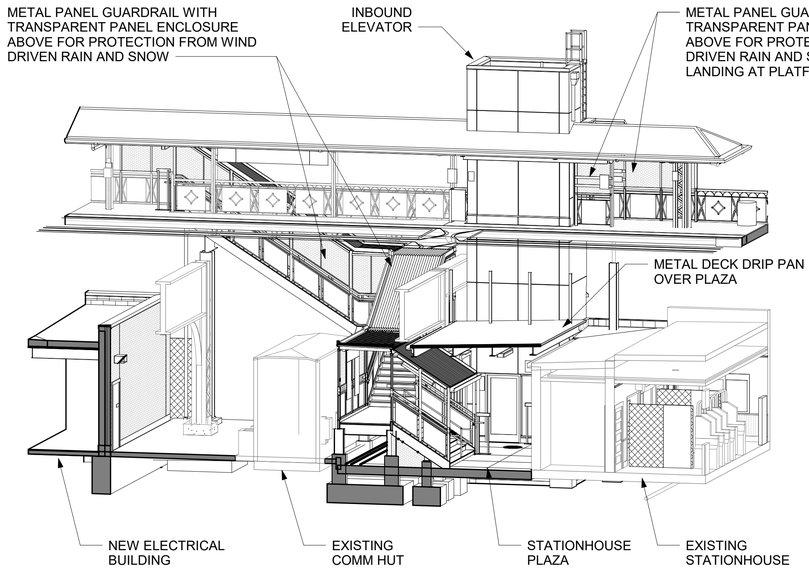
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VOLUME: 1 OF 1

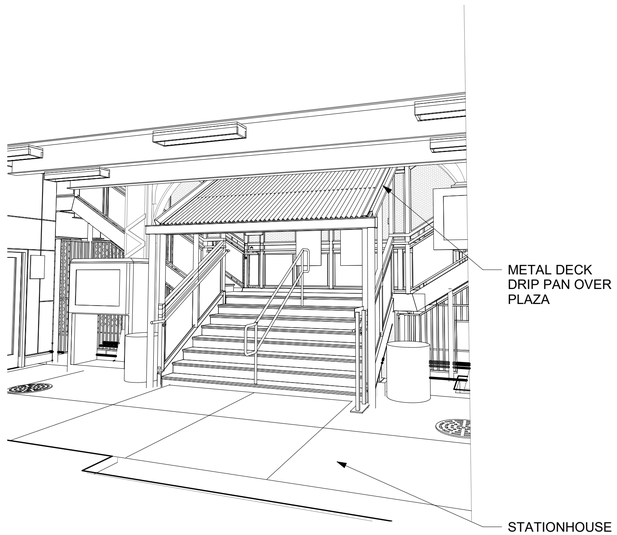
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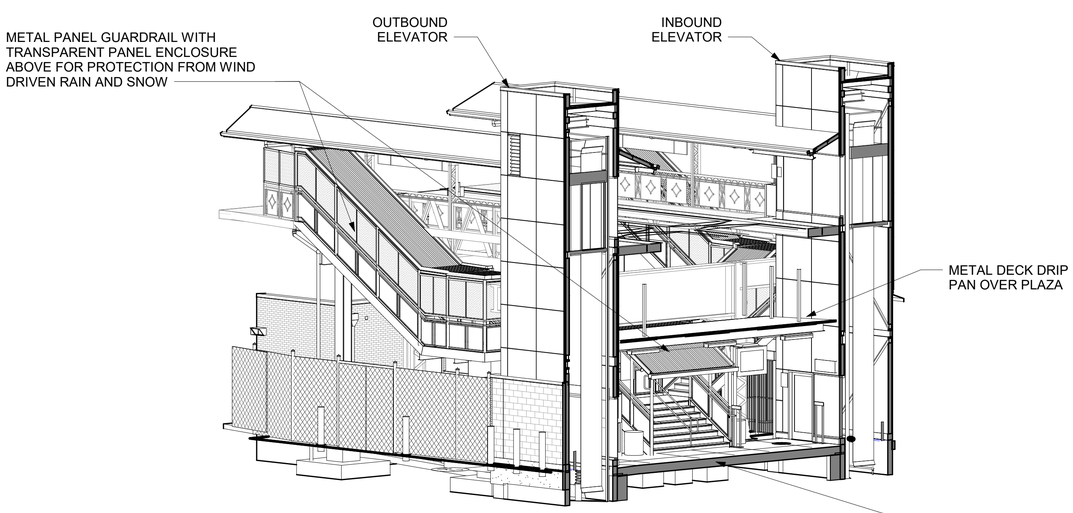
4 A-901 WATER MANAGEMENT SYSTEM OUTBOUND ELEVATOR
SCALE:



2 A-901 WATER MANAGEMENT INBOUND ELEVATOR
SCALE:



3 A-901 3D VIEW FROM STATIONHOUSE DOORS
SCALE:



1 A-901 WATER MANAGEMENT SYSTEM 3
SCALE:

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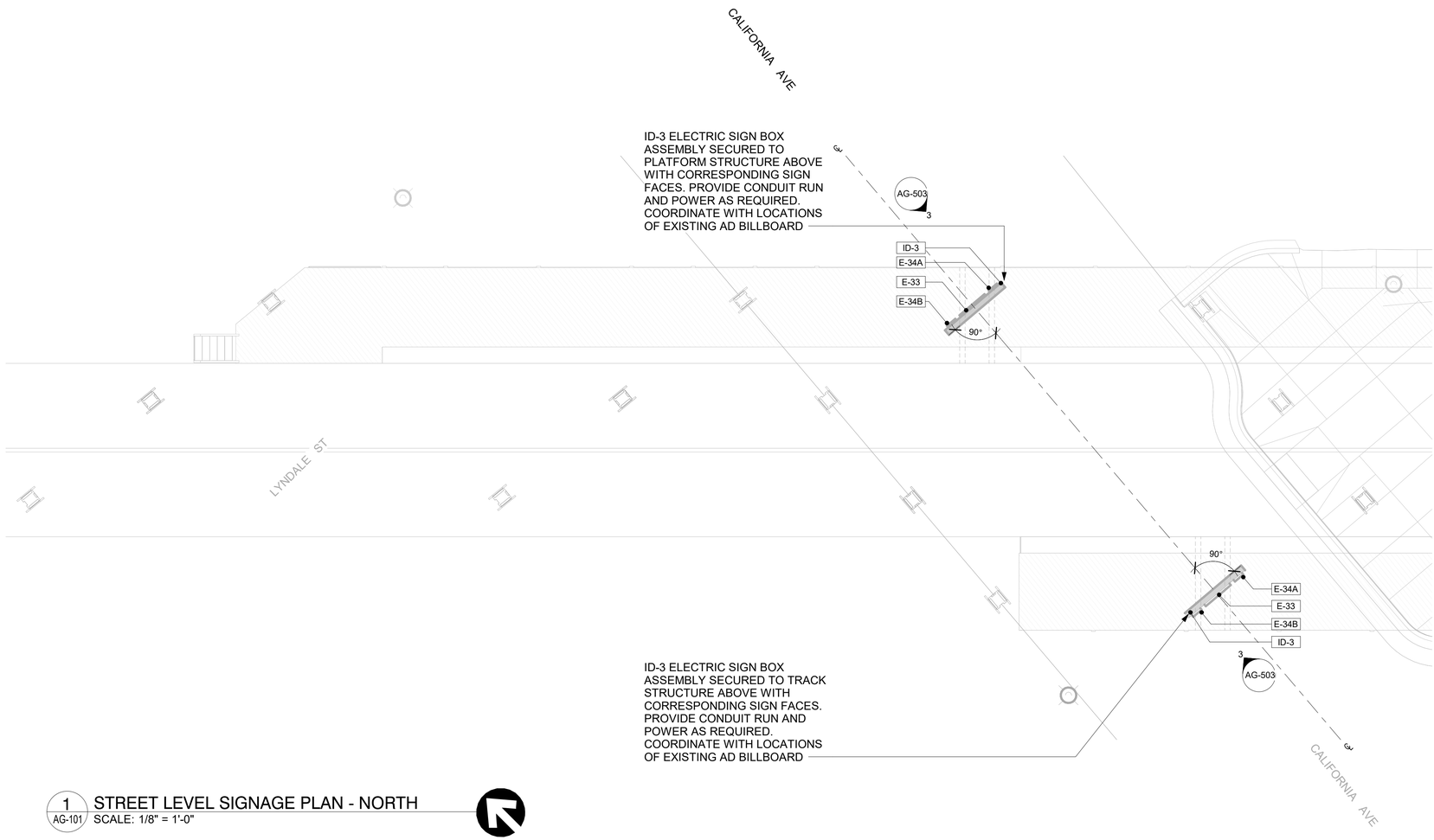
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3D VIEWS

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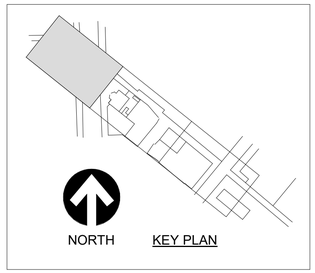
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1 AG-101 STREET LEVEL SIGNAGE PLAN - NORTH
SCALE: 1/8" = 1'-0"

0 4' 8' 16' 24'
SCALE: 1/8" = 1'-0"

NORTH



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CHECKED BY	JW
DESIGNED BY	JW
DRAWN BY	JW, JC, RS, HN

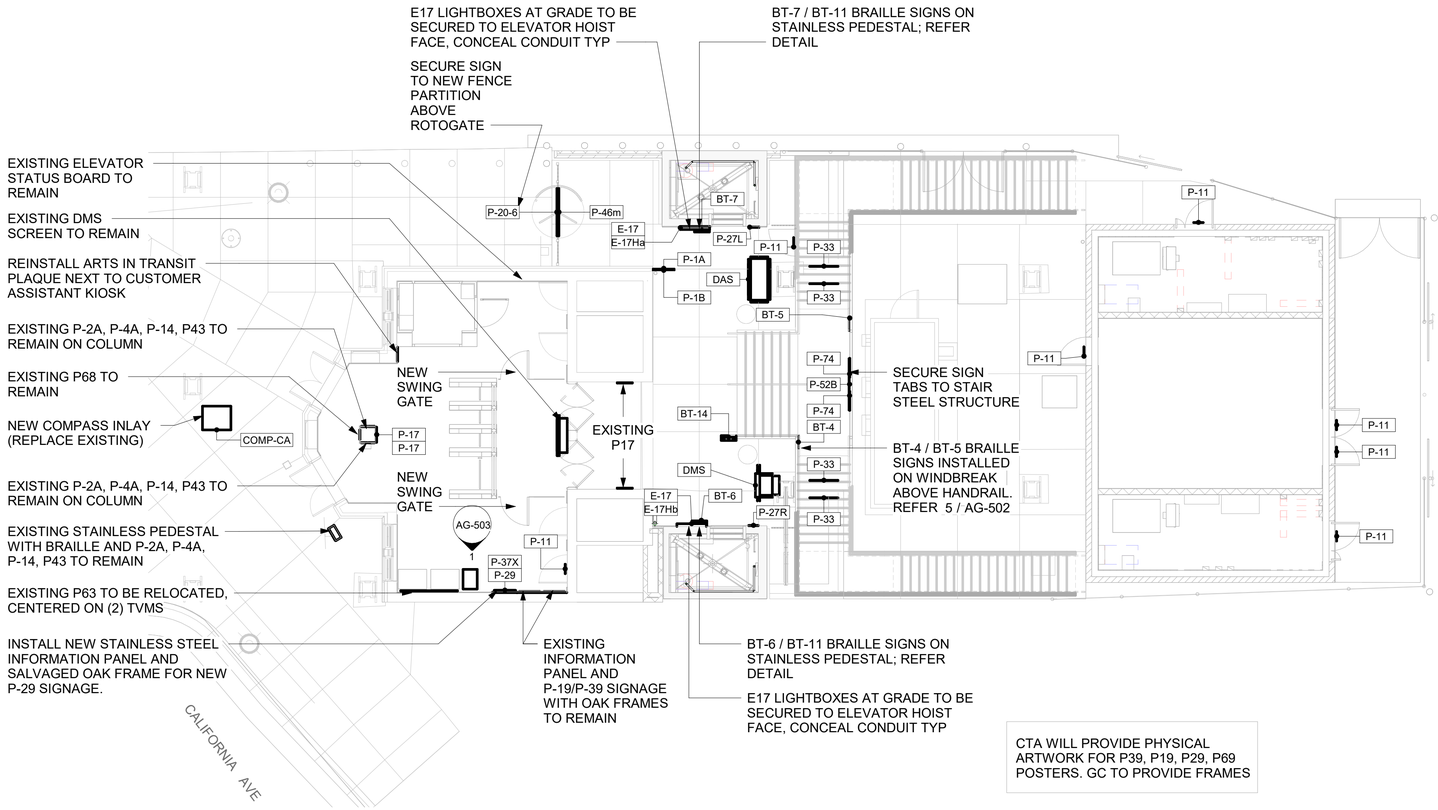
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SIGNAGE - STREET LEVEL PLAN NORTH

LSCAL | AG-101
VOLUME: 1 OF 1

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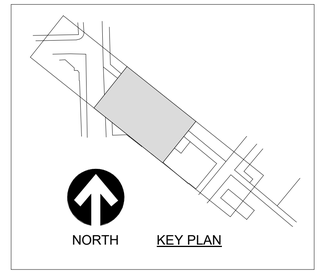


1 AG-102 STREET LEVEL SIGNAGE PLAN - CENTER
SCALE: 1/8" = 1'-0"

0 4' 8' 16' 24'
SCALE: 1/8" = 1'-0"

NORTH

CTA WILL PROVIDE PHYSICAL ARTWORK FOR P39, P19, P29, P69 POSTERS. GC TO PROVIDE FRAMES



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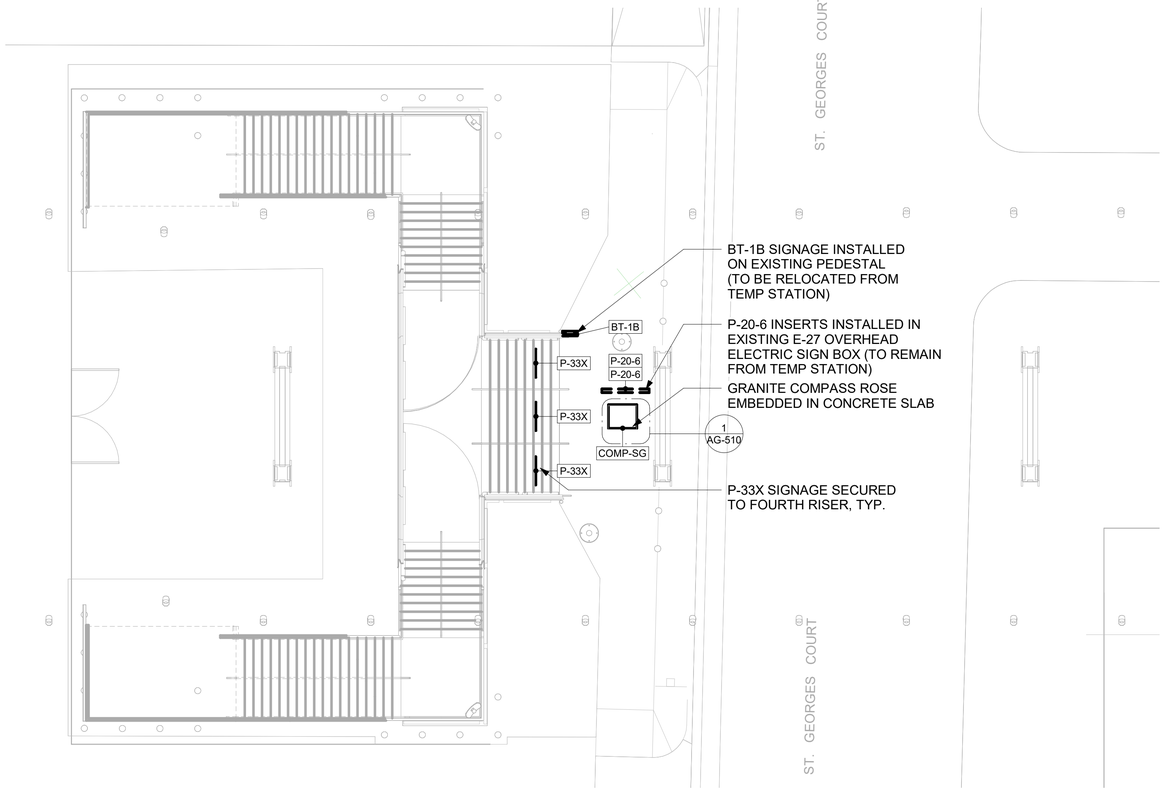
SIGNAGE - STREET LEVEL PLAN CENTER

LSCAL AG-102

VOLUME: 1 OF 1

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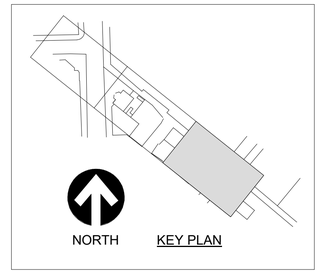
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1 AG-103 STREET LEVEL SIGNAGE PLAN - SOUTH
SCALE: 1/8" = 1'-0"

0 4' 8' 16' 24'
SCALE: 1/8" = 1'-0"

NORTH



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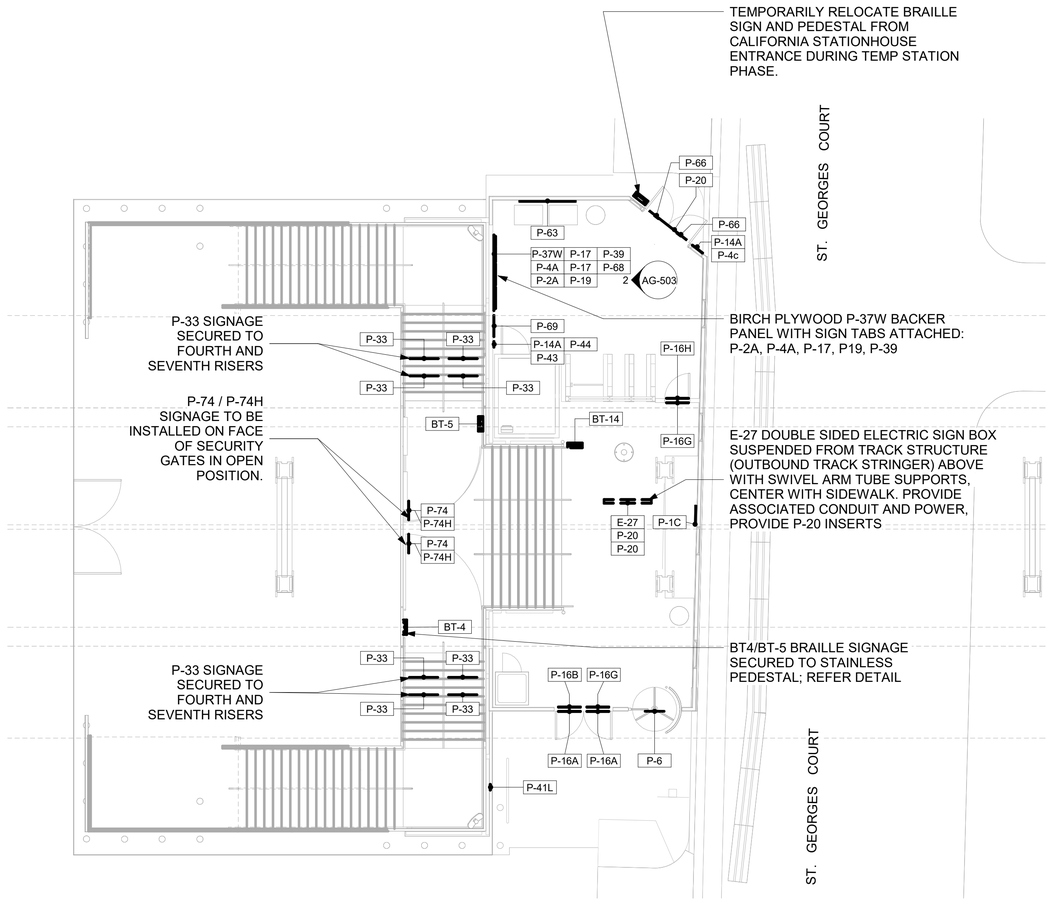
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SIGNAGE - STREET LEVEL PLAN SOUTH

LSCAL AG-103

VOLUME: 1 OF 1

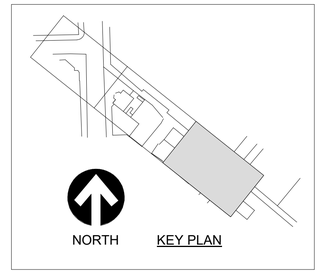
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1 AG-104 STREET LEVEL SIGNAGE PLAN - TEMP STATION
SCALE: 1/8" = 1'-0"

0 4' 8' 16' 24'
SCALE: 1/8" = 1'-0"

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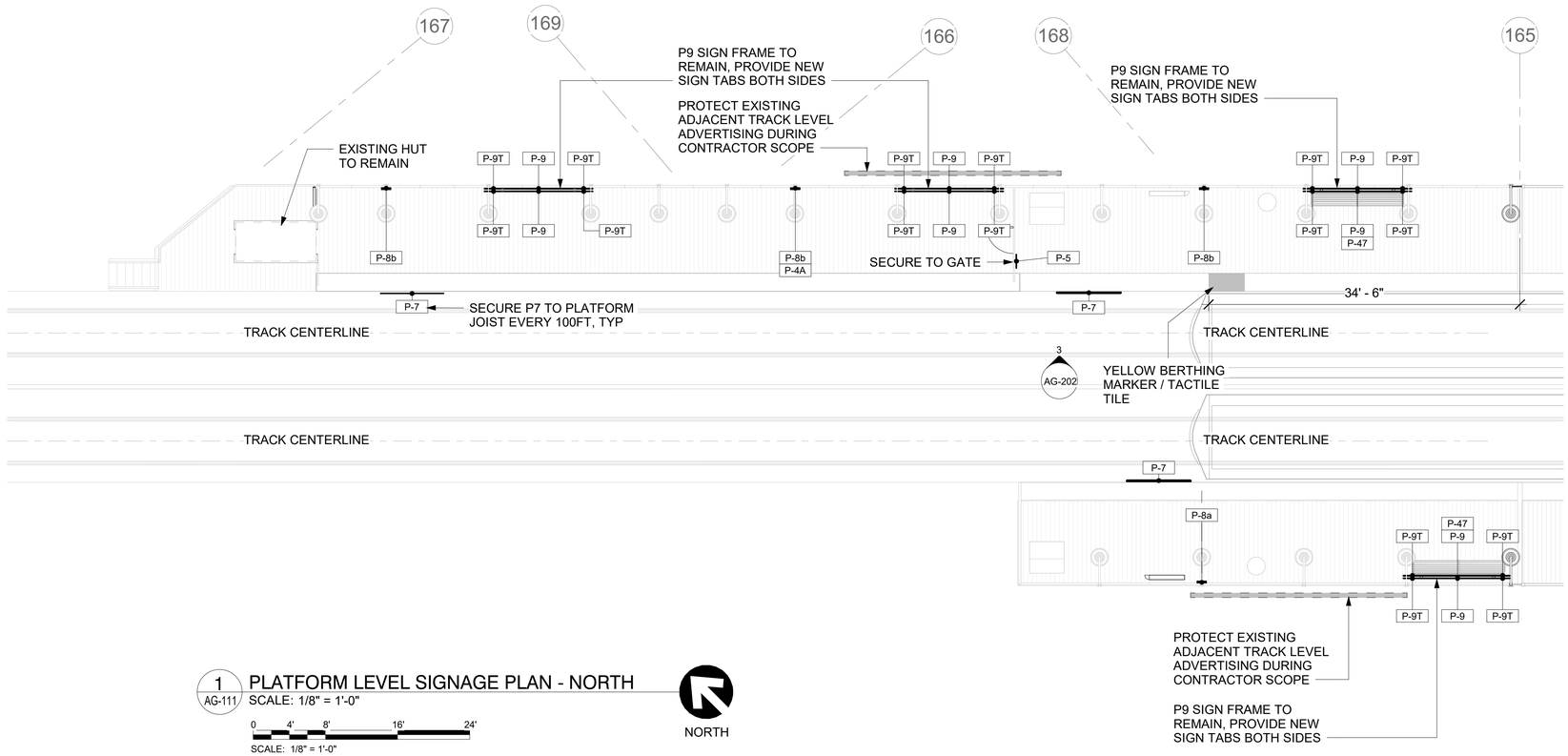
SIGNAGE - TEMP STATION

LSCAL | AG-104
VOLUME: 1 OF 1

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GENERAL NOTE:

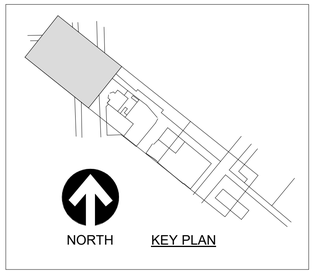
P9 AND P9T SIGNS SHALL BE DOUBLE SIDED IF VISIBLE FROM STREET LEVEL AT CALIFORNIA AVE



1 AG-111 PLATFORM LEVEL SIGNAGE PLAN - NORTH
SCALE: 1/8" = 1'-0"

0 4' 8' 16' 24'
SCALE: 1/8" = 1'-0"

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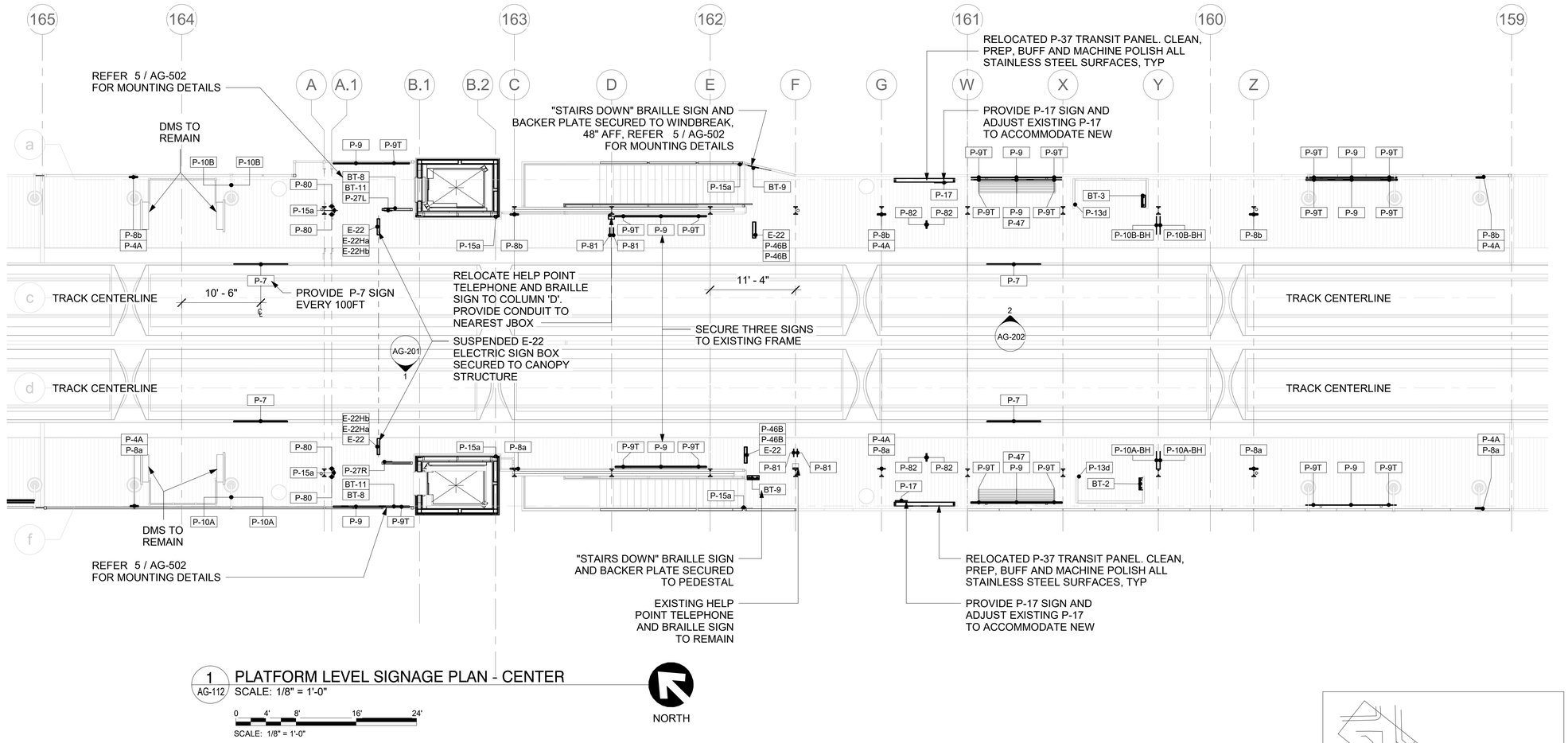
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SIGNAGE- PLATFORM LEVEL NORTH

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VOLUME: 1 OF 1

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1 AG-112 PLATFORM LEVEL SIGNAGE PLAN - CENTER
SCALE: 1/8" = 1'-0"

0 4' 8' 16' 24'
SCALE: 1/8" = 1'-0"

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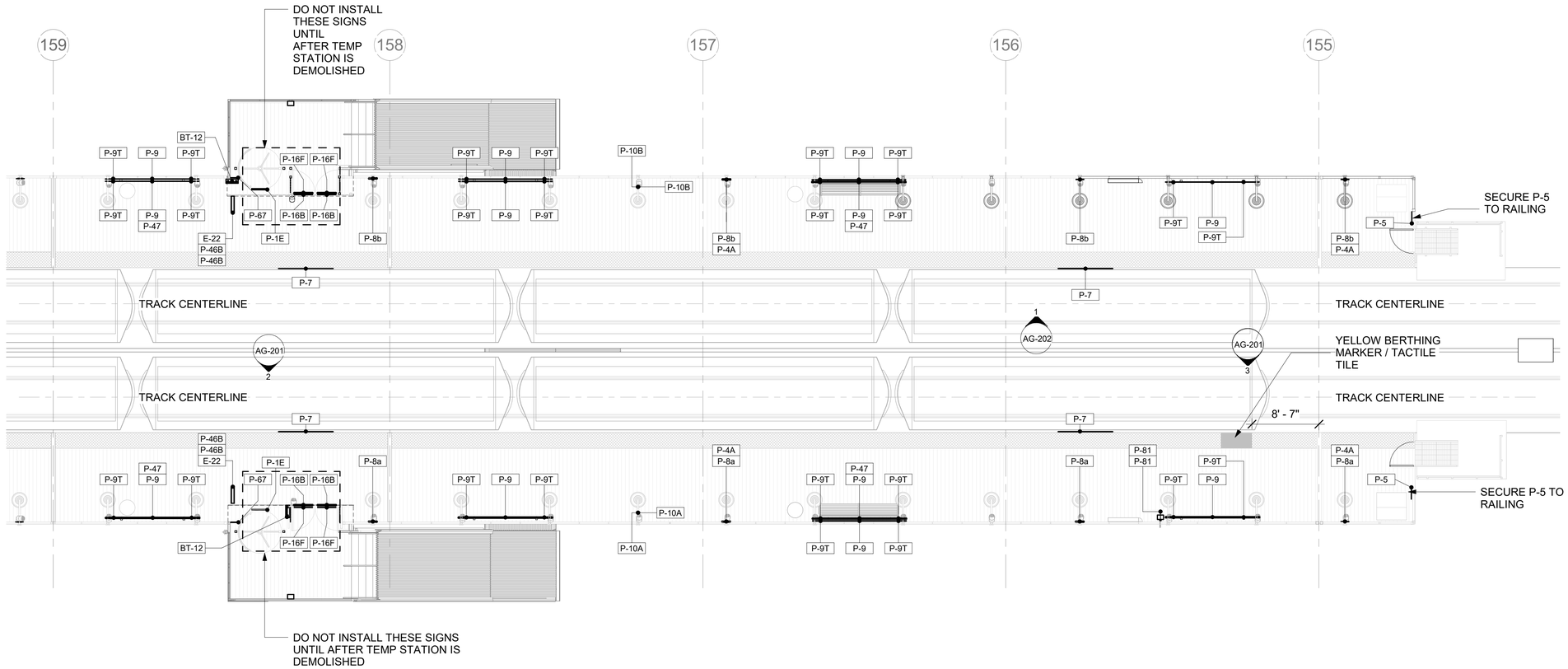
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SIGNAGE- PLATFORM LEVEL CENTER

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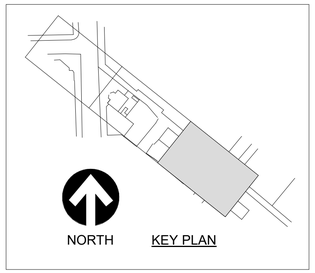
1 AG-113 PLATFORM LEVEL SIGNAGE PLAN - SOUTH

SCALE: 1/8" = 1'-0"

0 4' 8' 16' 24'

SCALE: 1/8" = 1'-0"

NORTH



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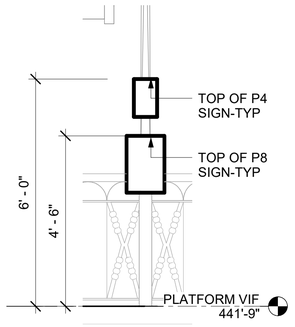
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SIGNAGE - PLATFORM LEVEL SOUTH

LSCAL | AG-113

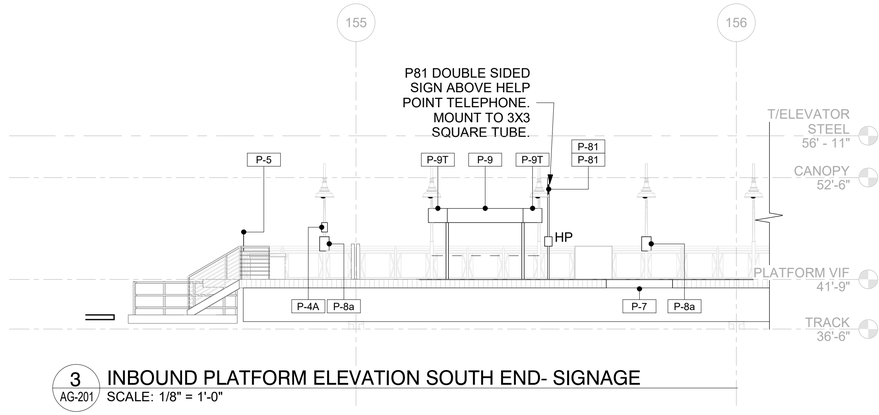
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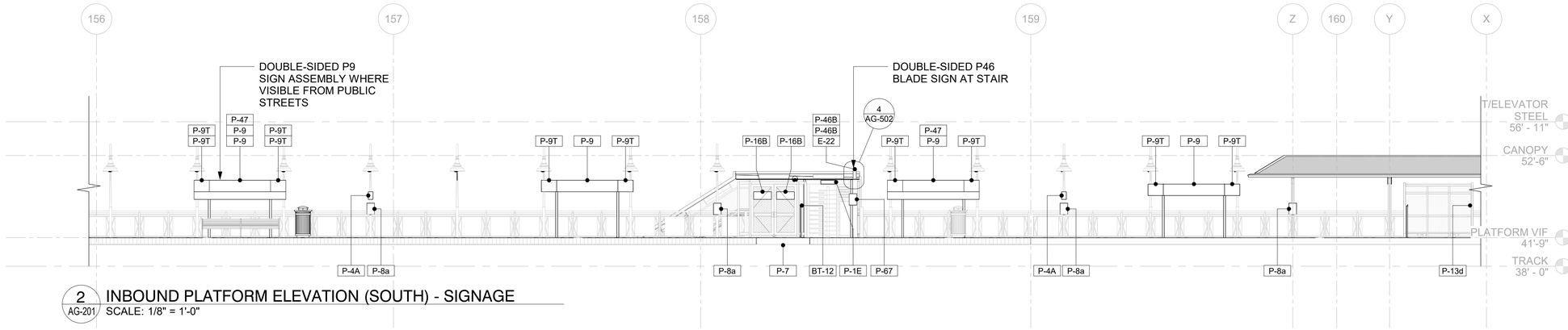
4 AG-201 INBOUND PLATFORM ELEVATION -P8
SCALE: 1/2" = 1'-0"

0 4' 8' 16' 24'
SCALE: 1/8" = 1'-0"



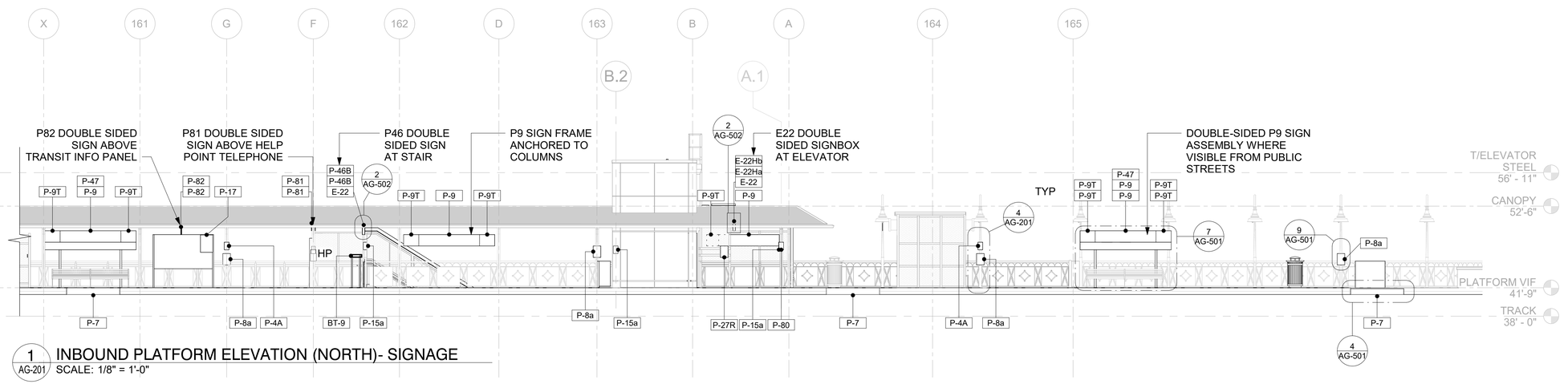
3 AG-201 INBOUND PLATFORM ELEVATION SOUTH END- SIGNAGE
SCALE: 1/8" = 1'-0"

0 4' 8' 16' 24'
SCALE: 1/8" = 1'-0"



2 AG-201 INBOUND PLATFORM ELEVATION (SOUTH) - SIGNAGE
SCALE: 1/8" = 1'-0"

0 4' 8' 16' 24'
SCALE: 1/8" = 1'-0"



1 AG-201 INBOUND PLATFORM ELEVATION (NORTH)- SIGNAGE
SCALE: 1/8" = 1'-0"

0 4' 8' 16' 24'
SCALE: 1/8" = 1'-0"

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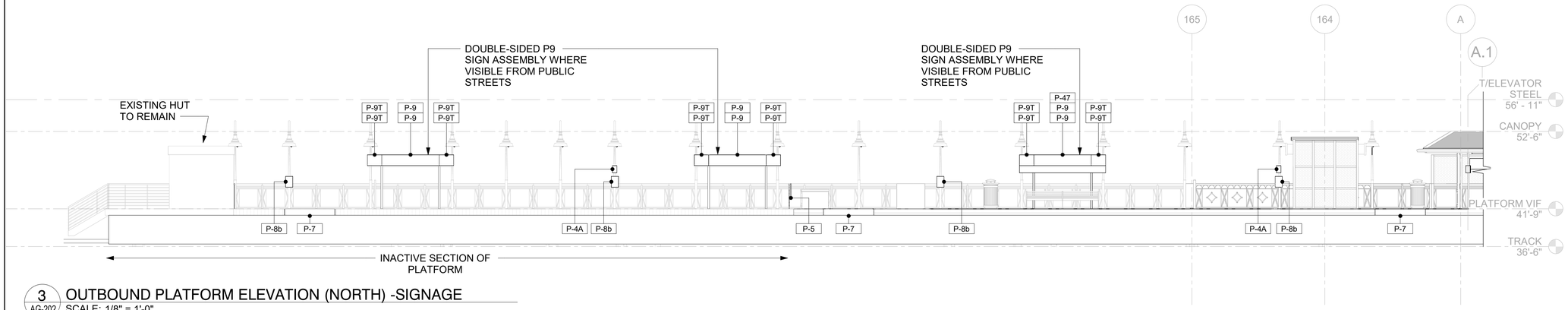
SIGNAGE ELEVATIONS -INBOUND PLATFORM

LSCAL | AG-201

VOLUME: 1 OF 1

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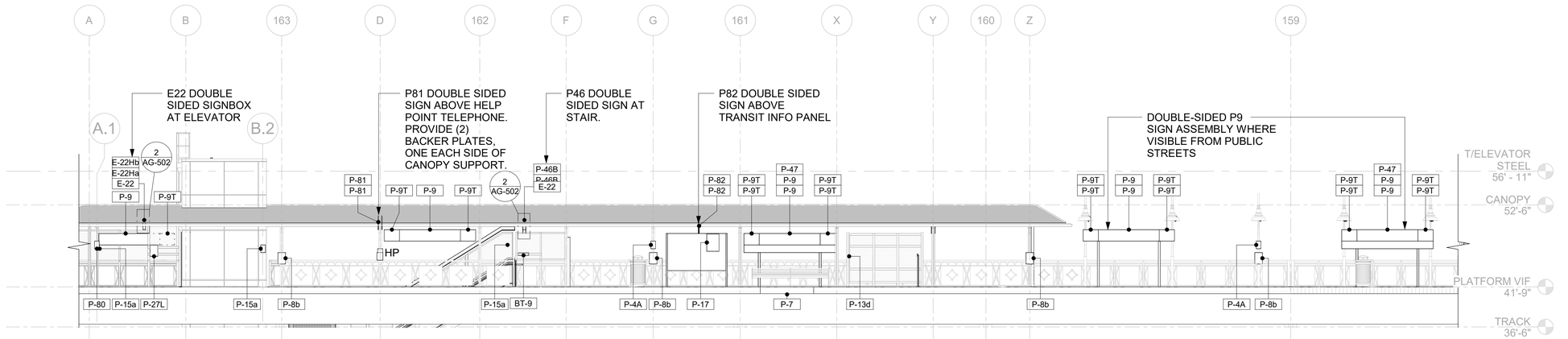


3 AG-202 OUTBOUND PLATFORM ELEVATION (NORTH) -SIGNAGE

SCALE: 1/8" = 1'-0"

0 4' 8' 16' 24'

SCALE: 1/8" = 1'-0"

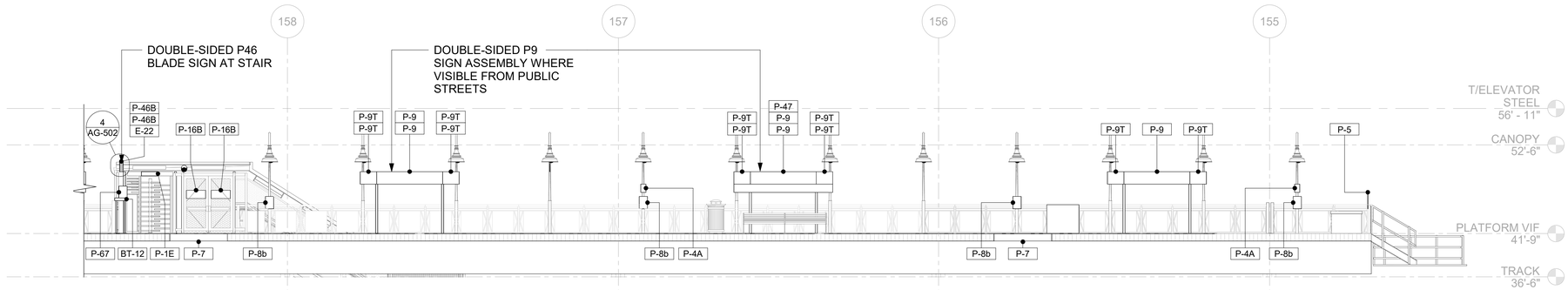


2 AG-202 OUTBOUND PLATFORM ELEVATION (SOUTH) -SIGNAGE

SCALE: 1/8" = 1'-0"

0 4' 8' 16' 24'

SCALE: 1/8" = 1'-0"



1 AG-202 OUTBOUND PLATFORM ELEVATION SOUTH END -SIGNAGE

SCALE: 1/8" = 1'-0"

0 4' 8' 16' 24'

SCALE: 1/8" = 1'-0"

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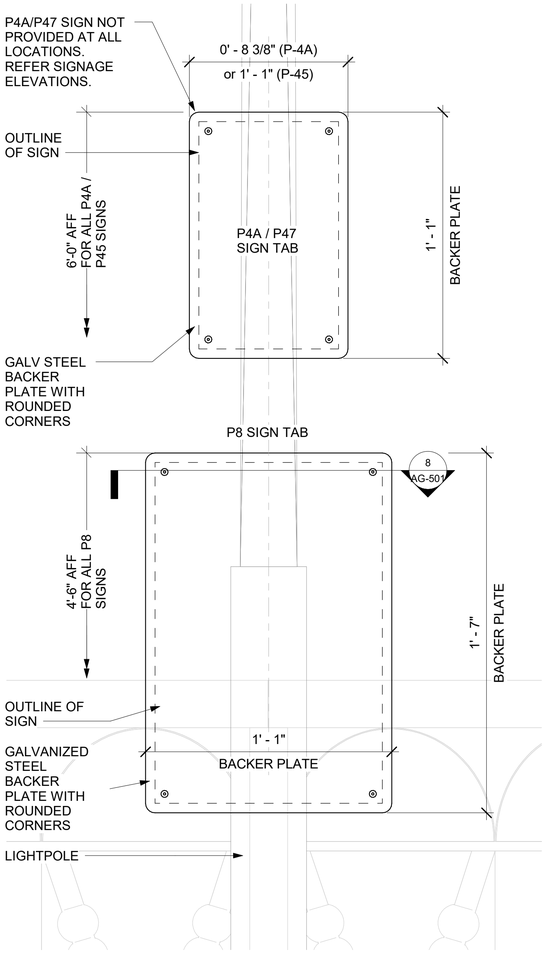
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SIGNAGE ELEVATIONS -OUTBOUND PLATFORM

LSCAL | AG-202

VOLUME: 1 OF 1

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Autodesk Docs://64058_CTA-Logan-California/MOD_ARC_CA-ASAP_R2022.rvt

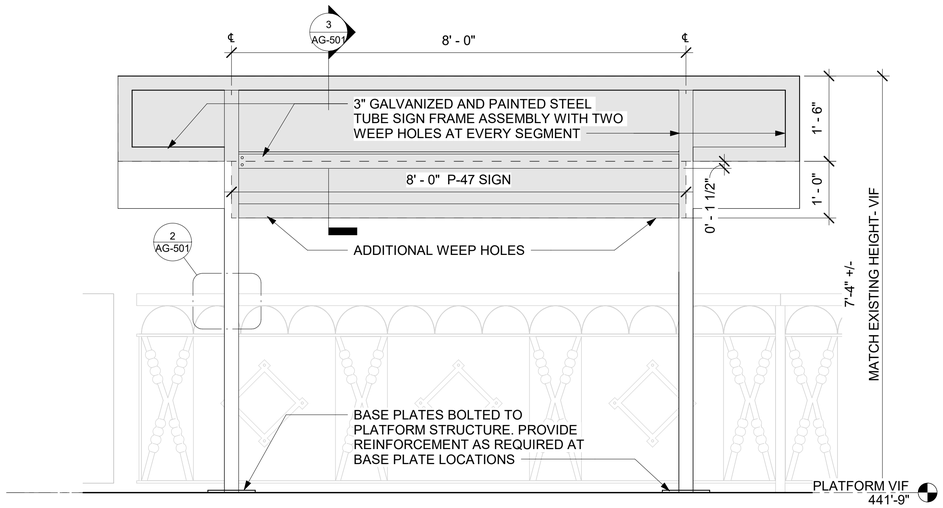


9 AG-501 P8 SIGN ELEVATION (SIM P4A, P45)

SCALE: 3" = 1'-0"

0 3" 6" 9" 12"

SCALE: 3" = 1'-0"

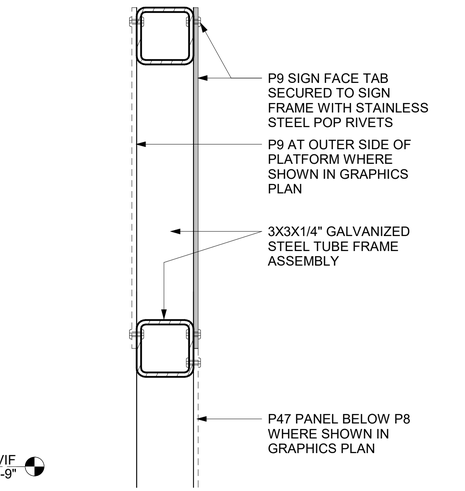


7 AG-501 P9 SIGN ELEVATION

SCALE: 3/4" = 1'-0"

0 1' 2' 3' 4'

SCALE: 3/4" = 1'-0"

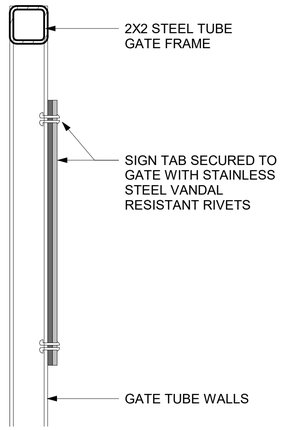


3 AG-501 SECTION DETAIL AT (P9) SIGN FRAME

SCALE: 3" = 1'-0"

0 3" 6" 9" 12"

SCALE: 3" = 1'-0"

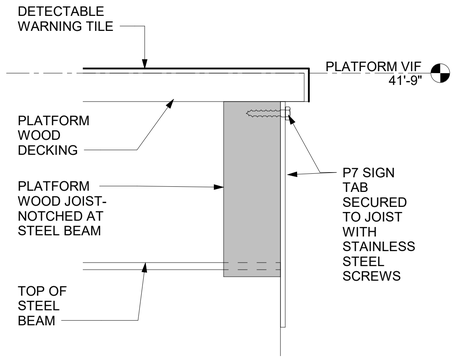


6 AG-501 P16 SECTION AT DOOR

SCALE: 3" = 1'-0"

0 3" 6" 9" 12"

SCALE: 3" = 1'-0"



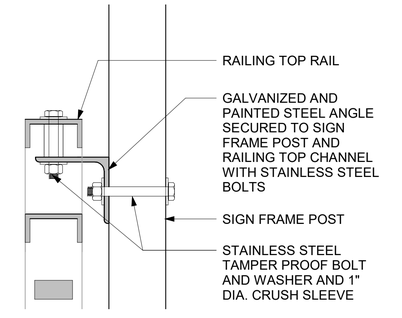
P7 SECTION DETAIL AT PLATFORM EDGE

5 AG-501

SCALE: 3" = 1'-0"

0 3" 6" 9" 12"

SCALE: 3" = 1'-0"

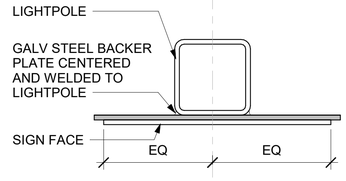


2 AG-501 CLIP ANGLE AT RAILING

SCALE: 3" = 1'-0"

0 3" 6" 9" 12"

SCALE: 3" = 1'-0"

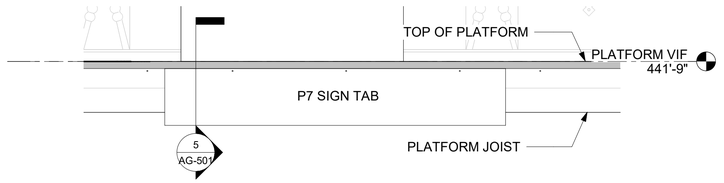


8 AG-501 P8 SECTION PLAN DETAIL (SIM P4A, P45)

SCALE: 3" = 1'-0"

0 3" 6" 9" 12"

SCALE: 3" = 1'-0"

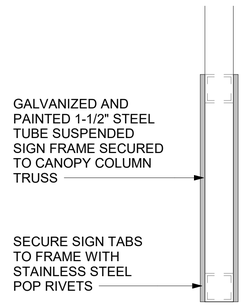


4 AG-501 P7 SIGN DETAIL ELEVATION

SCALE: 3/4" = 1'-0"

0 1' 2' 3' 4'

SCALE: 3/4" = 1'-0"



1 AG-501 SUSPENDED SIGN FRAME (P46, P81, P82)

SCALE: 3" = 1'-0"

0 3" 6" 9" 12"

SCALE: 3" = 1'-0"

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JOHNSON LASKY KINDELIN ARCHITECTS

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2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	M. KINDELIN
CHECKED BY	JW
DESIGNED BY	JW
DRAWN BY	JW, JC, RS, HN

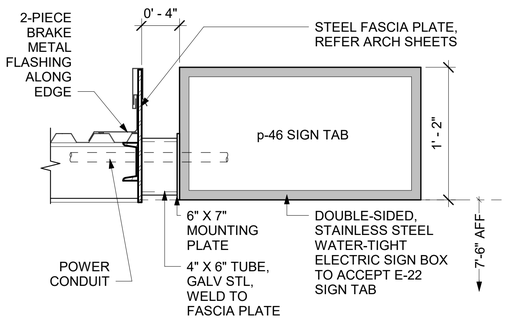
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SIGNAGE DETAILS

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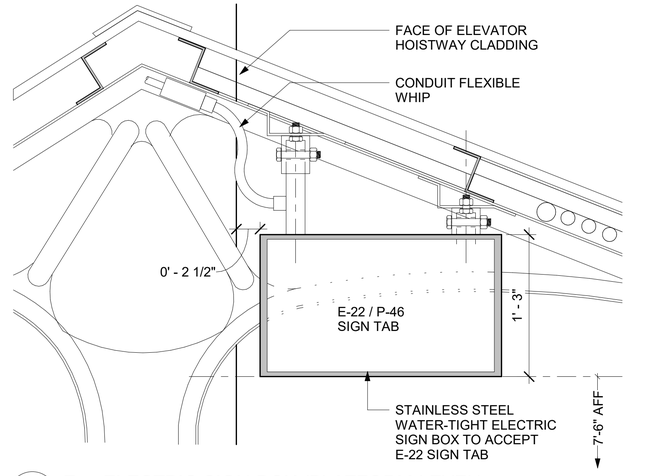


4 AG-502 E22 ELECTRIC SIGN BOX (PLATFORM LEVEL AT AUX EXIT)

SCALE: 1 1/2" = 1'-0"

0 1/2' 1' 1 1/2' 2'

SCALE: 1 1/2" = 1'-0"

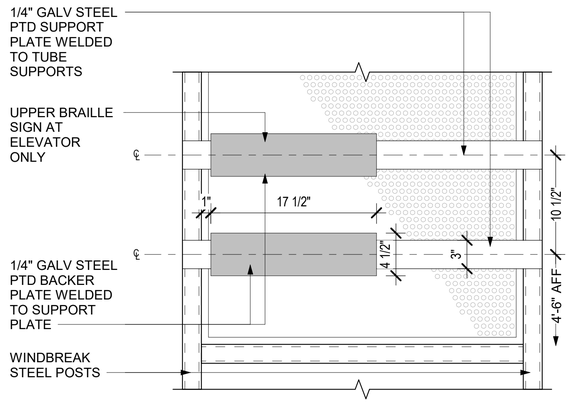


2 AG-502 E22 ELECTRIC SIGN BOX (PLATFORM LEVEL)

SCALE: 1 1/2" = 1'-0"

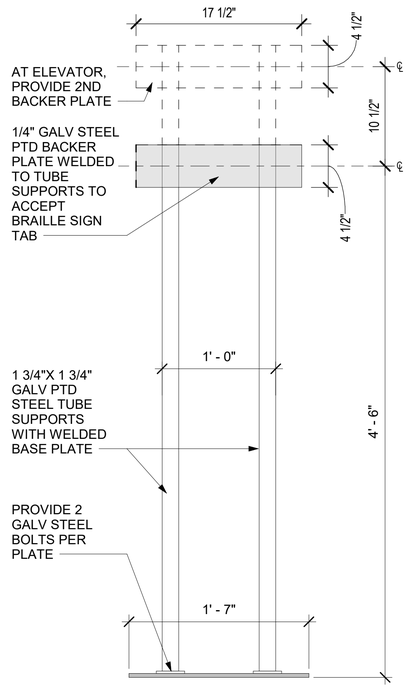
0 1/2' 1' 1 1/2' 2'

SCALE: 1 1/2" = 1'-0"



5 AG-502 BRAILLE SIGN - WINDBREAK MOUNT

SCALE: 1 1/2" = 1'-0"

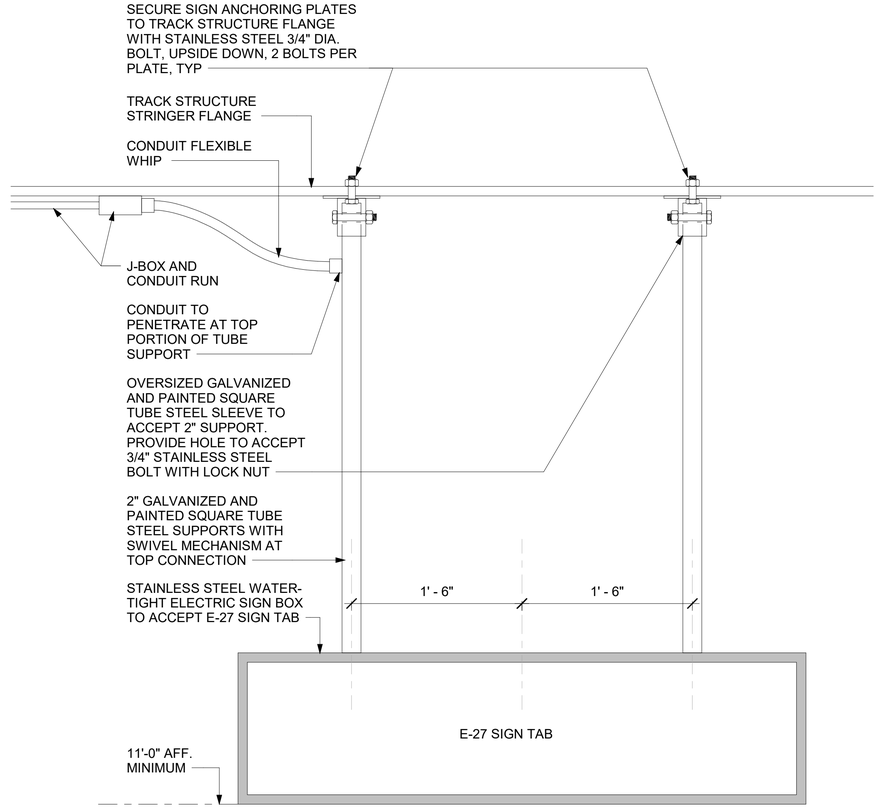


3 AG-502 CTA BRAILLE PEDESTAL

SCALE: 1 1/2" = 1'-0"

0 1/2' 1' 1 1/2' 2'

SCALE: 1 1/2" = 1'-0"



1 AG-502 CTA E27 SUSPENDED SIGN BOX

SCALE: 1 1/2" = 1'-0"

0 1/2' 1' 1 1/2' 2'

SCALE: 1 1/2" = 1'-0"

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IN CHARGE	I. COLLETTI
APPROVED BY	M. KINDELIN
CHECKED BY	JW
DESIGNED BY	JW
DRAWN BY	JW, JC, RS, HN

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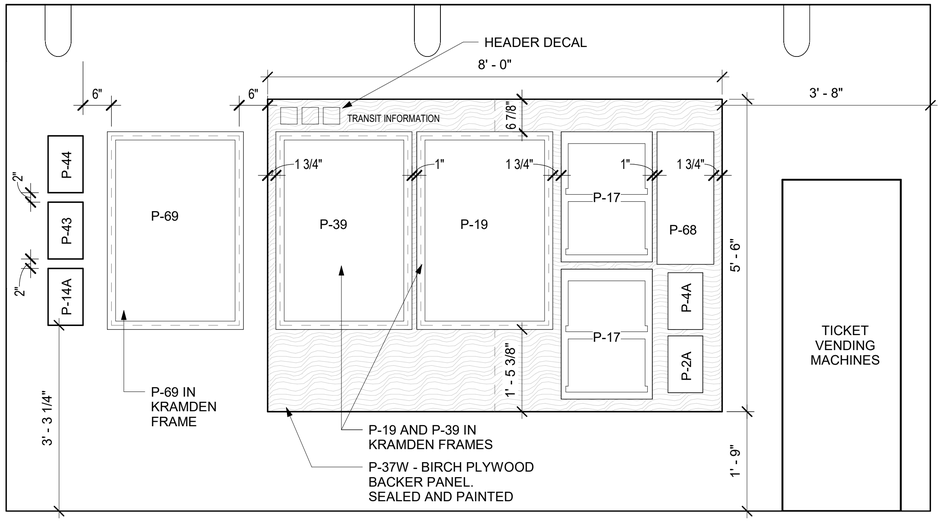
SIGNAGE DETAILS

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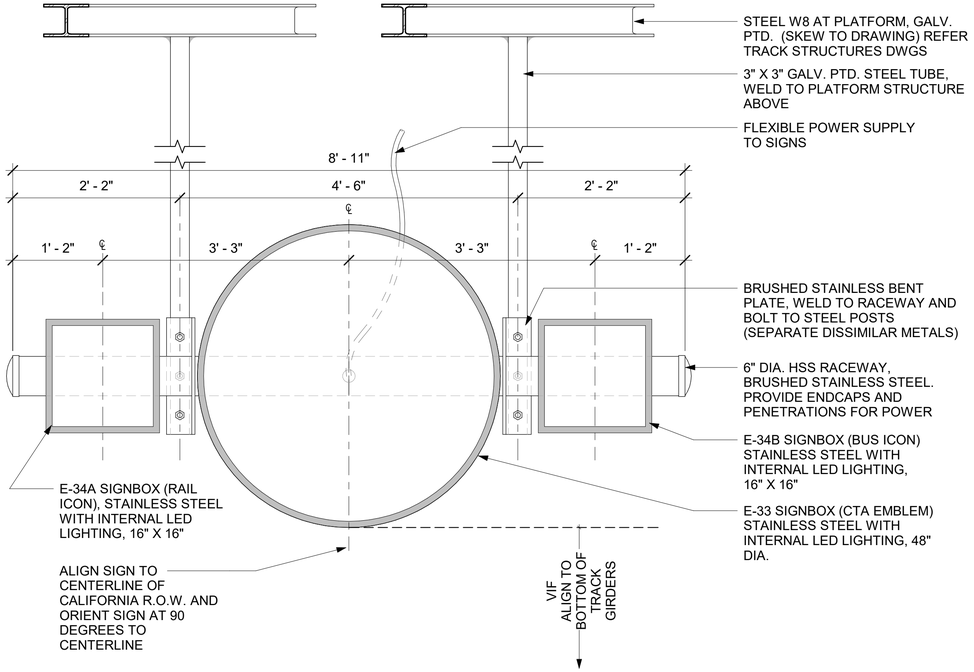
VOLUME: 1 OF 1

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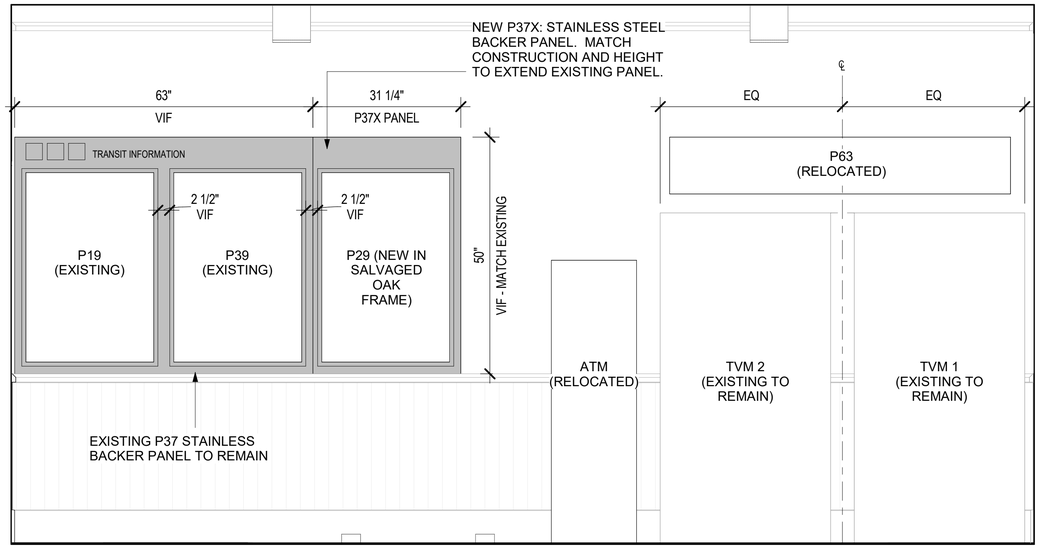
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2 AG-503 TEMP STATION - P37W INFORMATION PANEL
SCALE: 3/4" = 1'-0"



3 AG-503 ID-3 VIADUCT SIGN
SCALE: 1" = 1'-0"



1 AG-503 CALIFORNIA STATIONHOUSE - INFORMATION PANEL
SCALE: 3/4" = 1'-0"

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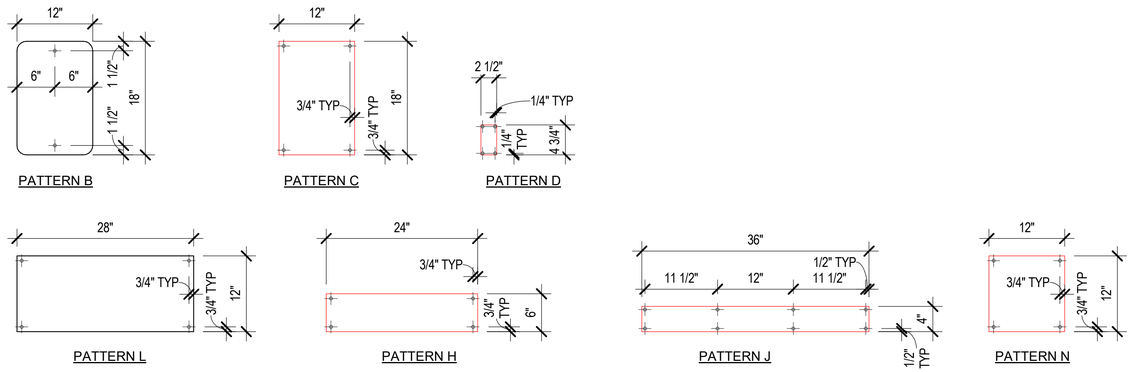
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SIGNAGE DETAILS

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1 AG-504 STANDARD DRILLING PATTERNS
SCALE: 1" = 1'-0"

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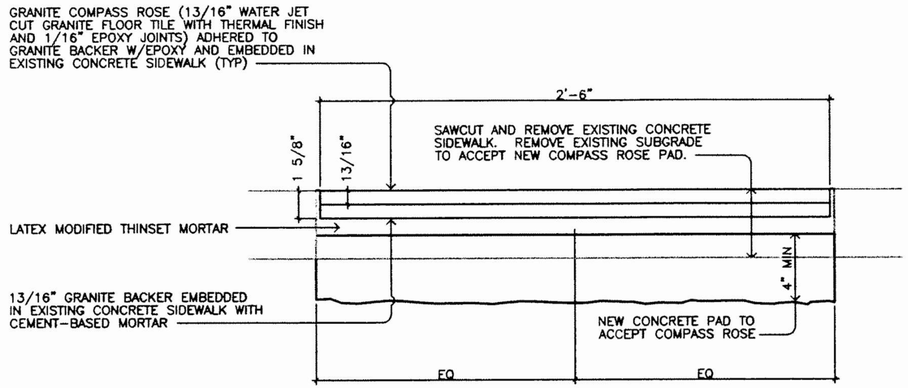
MARK	DATE	DESCRIPTION
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STANDARD DRILLING PATTERNS

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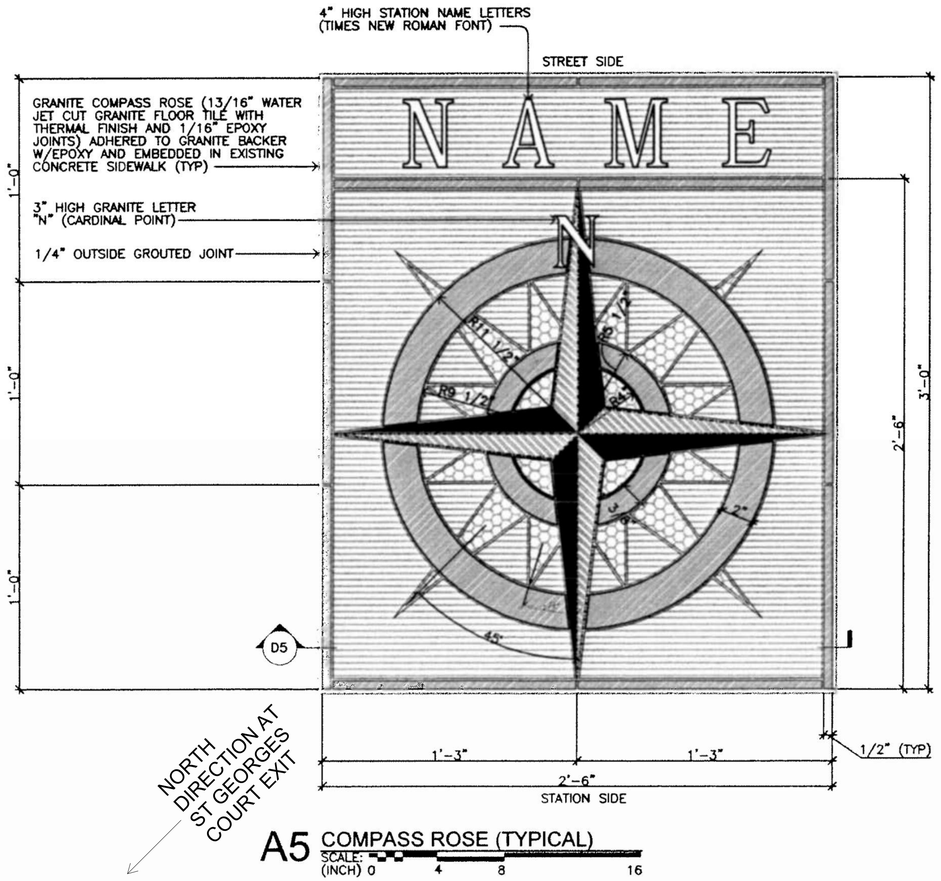
VOLUME: 1 OF 1

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D5 COMPASS ROSE SECTION

SCALE: (INCH) 0 4 8 16



A5 COMPASS ROSE (TYPICAL)

SCALE: (INCH) 0 4 8 16

NOTES:
1. LETTER (CARDINAL POINT) DIRECTION WILL VARY ACCORDING TO INDIVIDUAL STATION ORIENTATION
2. "NAME" WILL BE PARALLEL WITH ADJACENT STREET AND FACING EXITING CUSTOMER

GRANITE COLORS:
- BLACK GRANITE
- DARK GREY/WHITE GRANITE
- GREEN GRANITE
- DEEP RED GRANITE
- MEDIUM GREY GRANITE
- WHITE GRANITE

1 AG-510 CTA COMPASS ROSE STANDARD DRAWING

SCALE: 12" = 1'-0"

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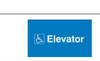
CTA COMPASS ROSE

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SIGNAGE SCHEDULE

SIGN MARK	DESIGN NO.	THUMBNAIL	INSTALL LOCATION	SIGN MESSAGE	GRAPHIC COLOR(S)	BACKGROUND COLOR(S)	DRILLING PATTERN	MOUNTING DETAIL	OVERALL SIZE	MATERIALS	QTY	NOTES
BRAILLE SIGNAGE (GRADE 2 BRAILLE)												
BT-1B	OP-TBD		ST GEORGE AUX EXIT	STOP! NO ENTRY	EGGSHELL WHITE	DARK GREY PMS 425	FOLLOW ARTWORK	AG-501	4" X 17"	ZINC ETCHED	1	PEDESTAL MOUNTED
BT-2	OP-TBD		INBOUND PLATFORM - WINDBREAK	COORDINATES / TO FOREST PARK	EGGSHELL WHITE	DARK GREY PMS 425	FOLLOW ARTWORK	AG-501	4" X 17"	ZINC ETCHED	1	SALVAGE EXISTING BRAILLE SIGN FROM WINDBREAK. PEDESTAL MOUNTED
BT-3	OP-TBD		OUTBOUND PLATFORM - WINDBREAK	COORDINATES / TO O'HARE	EGGSHELL WHITE	DARK GREY PMS 425	FOLLOW ARTWORK	AG-501	4" X 17"	ZINC ETCHED	1	SALVAGE EXISTING BRAILLE SIGN FROM WINDBREAK. PEDESTAL MOUNTED
BT-4	OP-TBD		CALIFORNIA ENTRANCE AND TEMP ST GEORGE ENTRANCE	STAIR UP TO FOREST PARK	EGGSHELL WHITE	DARK GREY PMS 425	FOLLOW ARTWORK	AG-501	4" X 17"	ZINC ETCHED	1	MOUNT TO WINDBREAK AT STAIRS, PROVIDE BACKER PLATE
BT-5	OP-TBD		CALIFORNIA ENTRANCE AND TEMP ST GEORGE ENTRANCE	STAIR UP TO O'HARE	EGGSHELL WHITE	DARK GREY PMS 425	FOLLOW ARTWORK	AG-501	4" X 17"	ZINC ETCHED	1	MOUNT TO WINDBREAK AT STAIRS, PROVIDE BACKER PLATE
BT-6	OP-TBD		CALIFORNIA STATION PLAZA	ELEVATOR UP TO FOREST PARK	EGGSHELL WHITE	DARK GREY PMS 425	FOLLOW ARTWORK	AG-501	4" X 17"	ZINC ETCHED	1	PEDESTAL MOUNTED
BT-7	OP-TBD		CALIFORNIA STATION PLAZA	ELEVATOR UP TO O'HARE	EGGSHELL WHITE	DARK GREY PMS 425	FOLLOW ARTWORK	AG-501	4" X 17"	ZINC ETCHED	1	PEDESTAL MOUNTED
BT-8	OP-TBD		PLATFORMS	ELEVATOR DOWN TO CALIFORNIA AVE	EGGSHELL WHITE	DARK GREY PMS 425	FOLLOW ARTWORK	AG-501	4" X 17"	ZINC ETCHED	2	MOUNT TO WINDBREAK AT PLATFORM RAILING, PROVIDE BACKER PLATE
BT-9	OP-TBD		PLATFORMS	STAIR DOWN TO CALIFORNIA AVE	EGGSHELL WHITE	DARK GREY PMS 425	FOLLOW ARTWORK	AG-501	4" X 17"	ZINC ETCHED	2	PEDESTAL MOUNTED AT INBOUND SIDE, WINDBREAK MOUNTED AT OUTBOUND
BT-11	OP-TBD		ELEVATORS	ELEVATOR OUTAGE INFO	EGGSHELL WHITE	DARK GREY PMS 425	FOLLOW ARTWORK	AG-501	7" X 13"	ZINC ETCHED	2	PEDESTAL MOUNTED AT STREET LEVEL
BT-12	OP-TBD		INBOUND PLATFORM - AUX EXIT ROTOGATE	STAIR DOWN TO ST GEORGES COURT	EGGSHELL WHITE	DARK GREY PMS 425	FOLLOW ARTWORK	AG-501	4" X 17"	ZINC ETCHED	2	PEDESTAL MOUNTED
BT-14	OP-TBD		CALIFORNIA ENTRANCE AND TEMP ST GEORGE ENTRANCE	STAIRS / PATH TO BLUE LINE	EGGSHELL WHITE	DARK GREY PMS 425	FOLLOW ARTWORK	AG-501	4" X 17"	ZINC ETCHED	1	PEDESTAL MOUNTED
ILLUMINATED SIGNAGE												
DAS	-		CALIFORNIA STATION PLAZA	TITAN SIGN FOR ADVERTISEMENT	TRI-COLOR L.E.D.	BLACK	-		57.48" X 83"	ELECTRONIC DISPLAY	1	REFERENCE TELECOM DWGS. CONFIRM SIZE AND LOCATION WITH CTA.
DMS	-		CALIFORNIA STATION PLAZA	TITAN SIGN FOR ADVERTISEMENT	TRI-COLOR L.E.D.	BLACK	-		57.48" X 83"	ELECTRONIC DISPLAY	1	REFERENCE TELECOM DWGS. CONFIRM SIZE AND LOCATION WITH CTA.
E-17	-		STREET LEVEL	-	-	-	-	AG-502	14.75" X 37.375"	STAINLESS STEEL	2	ONE-SIDED SIGN BOX- 1 FACE AS SCHEDULED
E-17Ha	E-22Ha		STREET LEVEL	ELEVATOR TO O'HARE	WHITE	BLUE PMS 300	SIGNBOX INSERT	AG-502	14.75" X 37.375"	FIBERGLASS TRANSLUCENT CLEAR	1	SIGNBOX INSERT TO E-17
E-17Hb	E-22Ha		STREET LEVEL	ELEVATOR TO FOREST PARK	WHITE	BLUE PMS 300	SIGNBOX INSERT	AG-502	14.75" X 37.375"	FIBERGLASS TRANSLUCENT CLEAR	1	SIGNBOX INSERT TO E-17
E-22	-		PLATFORMS	-	-	-	-	AG-502	15" X 25.5"	STAINLESS STEEL	6	DOUBLE SIDED SIGN BOX- 2 TOTAL FACES AS SCHEDULED
E-22Ha	E-22Ha		PLATFORMS	ELEVATOR	WHITE	BLUE PMS 300	SIGNBOX INSERT	AG-502	15" X 25.5"	FIBERGLASS TRANSLUCENT CLEAR	2	SIGNBOX INSERT TO E-22
E-22Hb	E-22Hb		PLATFORMS	ELEVATOR	WHITE	BLUE PMS 300	SIGNBOX INSERT	AG-502	15" X 25.5"	FIBERGLASS TRANSLUCENT CLEAR	2	SIGNBOX INSERT TO E-22
E-33	-		VIADUCT OVER CALIFORNIA	CTA LOGO	-	-	-		48" DIA.	FIBERGLASS TRANSLUCENT CLEAR	2	PART OF THE ID-3 SIGN. CONFIRM SIZE AND GRAPHIC WITH CTA.
E-34A	-		VIADUCT OVER CALIFORNIA	TRAIN ICON	-	-	-		16" X 16"	FIBERGLASS TRANSLUCENT CLEAR	2	PART OF THE ID-3 SIGN. CONFIRM SIZE AND GRAPHIC WITH CTA.
E-34B	-		VIADUCT OVER CALIFORNIA	BUS ICON	-	-	-		16" X 16"	FIBERGLASS TRANSLUCENT CLEAR	2	PART OF THE ID-3 SIGN. CONFIRM SIZE AND GRAPHIC WITH CTA.
ID-3	-		VIADUCT OVER CALIFORNIA	N/A	VARIOUS	-	-		43.189"x17 .165"	VARIOUS	2	INSTALLED TO TRACK STRUCTURE OVER STREET
P-20-6	OP-8450		LIGHTBOX - ST GEORGES COURT, STREET LEVEL	STOP! NO ENTRY	WHITE	RED	SIGNBOX INSERT	AG-502	16" X 60"	FIBERGLASS TRANSLUCENT CLEAR	2	SIGNBOX INSERT TO E-27
P-46B	OP		PLATFORMS	[OUT TO CALIFORNIA AVE AND BUSES] OR [OUT TO ST GEORGES CT]	WHITE	BLACK	SIGNBOX INSERT		15" X 25.5"	FIBERGLASS TRANSLUCENT CLEAR	8	SIGNBOX INSERT TO E-22
MISCELLANEOUS SIGNAGE												
COMP-CA			STREET LEVEL	COMPASS ROSE - CALIFORNIA	VARIOUS	WHITE	-	AG-510	30" X 36"	GRANITE	1	
COMP-SG	-		STREET LEVEL	COMPASS ROSE - ST GEORGES	VARIOUS	WHITE	-	AG-510	30" X 36"	GRANITE	1	
NON-ILLUMINATED SIGNAGE												
P-1A	OP-12287		CALIFORNIA STATION PLAZA	OUT→	BLACK	YELLOW PMS 116C	H		6" X 24"	PORCELAIN	1	FLAG MOUNTED BACKER PLATE WITH ROUNDED CORNERS - COMBINE WITH P-1B
P-1B	OP-12288		CALIFORNIA STATION PLAZA	←OUT	BLACK	YELLOW PMS 116C	H		6" X 24"	PORCELAIN	1	FLAG MOUNTED BACKER PLATE WITH ROUNDED CORNERS - COMBINE WITH P-1A
P-1E	OP-12213		ST GEORGE AUX EXIT - ABOVE ROTOGATE	OUT [NO BIKES] [NO STROLLERS] [NO LUGGAGE]	VARIOUS	YELLOW PMS 116C	H		6" X 24"	PORCELAIN	2	INSTALLED TO ROTOGATE
P-4A	OP-7708		PLATFORMS	NO SMOKING	BLACK, WHITE, RED PMS 200	WHITE	W	AG-501	7.375" X 12"	PORCELAIN	11	

SIGNAGE GENERAL NOTES:

1. FINAL SIGN LOCATIONS AND SIZES TO BE COORDINATED WITH CTA.
2. ALL SIGN ARTWORK TO BE PROVIDED BY CTA SIGNAGE AND WAYFINDING DEPT
3. ALL SIGN TABS TO BE PRE-DRILLED AND INSTALLED PER CTA SIGNAGE DRILL PATTERNS
4. BACKER PLATES TO BE WELDED PRIOR TO PAINTING OF STRUCTURE OR PLATE.
5. CONTRACTOR TO PROVIDE MOUNTING CONNECTION DETAILS DURING SHOP DRAWING PHASE FOR CTA APPROVAL.
6. PROVIDE NYLON WASHERS FOR DISSIMILAR METALS.

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JOHNSON LASKY KINDELIN ARCHITECTS

CHICAGO TRANSIT AUTHORITY
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SIGNAGE SCHEDULE

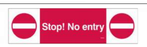
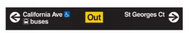
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VOLUME: 1 OF 1

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SIGNAGE SCHEDULE

SIGN MARK	DESIGN NO.	THUMBNAIL	INSTALL LOCATION	SIGN MESSAGE	GRAPHIC COLOR(S)	BACKGROUND COLOR(S)	DRILLING PATTERN	MOUNTING DETAIL	OVERALL SIZE	MATERIALS	QTY	NOTES
P-5			END PLATFORM RAILINGS	DANGER NO ONE PERMITTED	MULTICOLOR	WHITE	EA		12" X 18"	FIBERGLASS	3	INSTALLED TO PLATFORM END GATE, PROVIDE PTD STEEL BACKER PLATE
P-7	SP-6690-R2		TRACK LEVEL	DANGER-KEEP OFF TRACKS	BLACK, WHITE, RED PMS 200	WHITE	GA	AG-501	12" X 84"	FIBERGLASS	11	INSTALL 100' ON CENTER ALONG SIDE OF PLATFORM STRUCTURE
P-8a	OP		SOUTHBOUND PLATFORM COLUMNS AND LIGHT POLES	C CALIFORNIA TO FOREST PARK	WHITE, BLUE PMS 299	DARK GREY PMS 425	C	AG-501	12" X 18"	PORCELAIN	10	MOUNT TOP AT 54" OFF PLATFORM, PROVIDE BACKER PLATE
P-8b	OP		NORTHBOUND PLATFORM COLUMNS AND LIGHT POLES	C CALIFORNIA TO O'HARE ✈	WHITE, BLUE PMS 299	DARK GREY PMS 425	C	AG-501	12" X 18"	PORCELAIN	12	MOUNT TOP AT 54" OFF PLATFORM, PROVIDE BACKER PLATE
P-9	OP		PLATFORMS	[CALIFORNIA] [2800W 2300N]	WHITE	DARK GREY PMS 425	JB	AG-501	96" X 18"	FIBERGLASS	30	
P-9T	OP		PLATFORMS	BLANK SIDE TAB	-	BLUE PMS 299	EA	AG-501	24" X 18"	FIBERGLASS	58	
P-10A	OP-9361		PLATFORM LIGHT POLES	FOREST PARK	WHITE	BLUE PMS 299	L	AG-521	12"X28"	PORCELAIN	4	MOUNT BOTTOM AT 84" OFF PLATFORM, PROVIDE FLAG MOUNTED BACKER PLATE
P-10A-BH	OP-9851		PLATFORM CANOPY	FOREST PARK - BOARD HERE	WHITE	BLUE PMS 299	L	AG-521	12"X28"	PORCELAIN	2	MOUNT BOTTOM AT 84" OFF PLATFORM, PROVIDE CEILING SUSPENDED BACKER PLATE
P-10B	OP-9362		PLATFORM LIGHT POLES	O'HARE ✈	WHITE	BLUE PMS 299	L	AG-521	12"X28"	PORCELAIN	4	MOUNT BOTTOM AT 84" OFF PLATFORM, PROVIDE FLAG MOUNTED BACKER PLATE
P-10B-BH	OP-9850		PLATFORM CANOPY	O'HARE ✈ BOARD HERE	WHITE	BLUE PMS 299	L	AG-521	12"X28"	PORCELAIN	2	MOUNT BOTTOM AT 84" OFF PLATFORM, PROVIDE CEILING SUSPENDED BACKER PLATE
P-11	SDP-1216-R1		VARIOUS	AUTHORIZED PERSONNEL ONLY	WHITE	BLACK	X		12" X 4"	PORCELAIN	7	
P-13d	OP-3515		PLATFORM WINDBREAK	HEAT AVAILABLE ↓	WHITE	BLACK	D		2.25 X 4.75	FIBERGLASS	2	
P-15a	OP-7368		PLATFORMS - TOP OF STAIRS AND ELEVATOR TOWER	STAY ON PLATFORM	VARIOUS	YELLOW	W / VHB TAPE AT ELEVATOR GLAZING		7.375" X 12"	PORCELAIN	6	
P-16B	OP-10130		PLATFORM EXIT DOORS - PAID SIDE	[STOP] - EMERGENCY EXIT ONLY	WHITE	RED PMS 200	L		12" X 28"	FIBERGLASS	4	
P-16F	OP-10134		PLATFORM EXIT DOORS - UNPAID SIDE	[STOP] STOP! NO ENTRY	WHITE	RED PMS 200	L		12" X 28"	FIBERGLASS	4	
P-17	OP-5743-R2		CALIFORNIA UNPAID AREA, PLATFORMS	CUSTOMER ALERT	BLACK	STAINLESS STEEL	PER CTA DRILL PATTERN		19.25" X 27.5"	STAINLESS STEEL	4	
P-20-6	OP-8450		CALIFORNIA - ABOVE ROTOGATE	STOP! NO ENTRY	RED PMS 200	WHITE	-		16" X 60"	PORCELAIN	1	PROVIDE ALPINA P-20 FRAME
P-27L	OP-2669		ELEVATOR TOWER AT PLAZA LEVEL, PLATFORMS AT ELEVATOR WINDBREAK	ADA ELEVATOR	WHITE	BLUE PMS 300	C		12" x 18"	PORCELAIN	2	ADA SYMBOL FACES LEFT. PROVIDE GALVANIZED STEEL BACKER PLATE W/ROUNDED CORNERS AT (1) PLATFORM LEVEL LOCATION
P-27R	OP-2669		ELEVATOR TOWER AT PLAZA LEVEL, PLATFORMS AT ELEVATOR WINDBREAK	ADA ELEVATOR	WHITE	BLUE PMS 300	C		12" x 18"	PORCELAIN	2	ADA SYMBOL FACES RIGHT. PROVIDE GALVANIZED STEEL BACKER PLATE W/ROUNDED CORNERS AT (1) PLATFORM LEVEL LOCATION
P-29	-		CALIFORNIA UNPAID AREA	NEIGHBORHOOD AREA MAP	VARIOUS	WHITE	-		27" X 40"	DIGITAL OUTPUT	1	INSTALL IN SALVAGED OAK P-20 FRAME
P-33	OP		4TH STAIR RISERS	[O'HARE ✈] OR [FOREST PARK]	BLUE PMS 299	WHITE	J		36" X 4"	PORCELAIN	4	
P-33X	OP-3173		4TH STAIR RISERS	STOP! DO NOT ENTER	BLACK, WHITE, RED PMS 200	WHITE	J		4" X 36"	PORCELAIN	3	INSTALL ON STAIR RISERS
P-37X			CALIFORNIA STATIONHOUSE	-	-	STAINLESS STEEL	CUSTOM	AG-503	50" X 31.25" (VIF)	ST. STL.	1	MATCH THICKNESS AND HEIGHT TO EXTEND EXISTING TRANSIT INFORMATION PANEL
P-46m	OP		ABOVE CALIFORNIA ROTOGATE	OUT TO CALIFORNIA AVE AND BUSES	WHITE	BLACK	L		16" X 60"	PORCELAIN	1	INSTALLED TO FENCE ABOVE ROTOGATE, PROVIDE BACKER PLATE
P-47	OP		PLATFORM	OUT- DIRECTIONALS	WHITE, YELLOW, BLUE PMS 300	BLACK	JB	AG-501	144" X 12"	FIBERGLASS	8	
P-52B	OP		STAIR #1 LANDING	TO TRAINS (CROSSROADS)	WHITE, BLUE PMS 299	BLACK	PER CTA DRILL PATTERN		66" x 15"	FIBERGLASS	1	NORTHBOUND ON LEFT
P-63	OP-12310		ABOVE TVMS	FARES AND TICKETS	WHITE	BLACK	BA		72" X 12"	FIBERGLASS	1	
P-67	OP-10379-R2		PLATFORMS - AT ROTOGATES	NARROW EXIT - PLEASE EXIT THROUGH MAIN STATION	BLACK, RED PMS 200	WHITE	C		12" X 18"	FIBERGLASS	2	PROVIDE GALVANIZED STEEL BACKER PLATE W/ROUNDED CORNERS
P-74	-		STAIR #1 LANDING	DIRECTIONAL MAP SIGN	VARIOUS	WHITE	-		24" X 48"	FIBERGLASS	2	PROVIDE ALPINA FRAME AND LEXAN FOR EACH SIGN
P-80	OP-12017-R1		PLATFORMS	SUICIDE PREVENTION	BLACK, WHITE, RED PMS 200	WHITE	W	AG-501	7.375" X 12"	PORCELAIN	4	MOUNT CENTER AT 60" OFF PLATFORM, PROVIDE BACKER PLATE
P-81	-		PLATFORM	HELP POINT FLAG	BLACK, WHITE, RED PMS 200	BLUE PMS 300	N	AG-501	12" X 12"	PORCELAIN	6	FLAG MOUNTED BACKER PLATE WITH ROUNDED CORNERS
P-82	-		PLATFORM	INFORMATION FLAG	WHITE	BLACK	N	AG-501	12" X 12"	PORCELAIN	4	FLAG MOUNTED BACKER PLATE WITH ROUNDED CORNERS

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APPROVED BY	M. KINDELIN
CHECKED BY	JW
DESIGNED BY	JW
DRAWN BY	JW, JC, RS, HN

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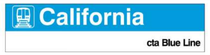
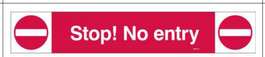
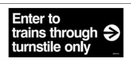
SIGNAGE SCHEDULE

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TEMP SIGNAGE SCHEDULE

SIGN MARK	DESIGN NO.	THUMBNAIL	INSTALL LOCATION	SIGN MESSAGE	GRAPHIC COLOR(S)	BACKGROUND COLOR(S)	DRILLING PATTERN	MOUNTING DETAIL	OVERALL SIZE	MATERIALS	QTY	NOTES
BRAILLE SIGNAGE (GRADE 2 BRAILLE)												
BT-4	OP-TBD		CALIFORNIA ENTRANCE AND TEMP ST GEORGE ENTRANCE	STAIR UP TO FOREST PARK	EGGSHELL WHITE	DARK GREY PMS 425	FOLLOW ARTWORK	AG-501	4" X 17"	ZINC ETCHED	1	PEDESTAL MOUNTED
BT-5	OP-TBD		CALIFORNIA ENTRANCE AND TEMP ST GEORGE ENTRANCE	STAIR UP TO O'HARE	EGGSHELL WHITE	DARK GREY PMS 425	FOLLOW ARTWORK	AG-501	4" X 17"	ZINC ETCHED	1	PEDESTAL MOUNTED
BT-14	OP-TBD		CALIFORNIA ENTRANCE AND TEMP ST GEORGE ENTRANCE	STAIRS / PATH TO BLUE LINE	EGGSHELL WHITE	DARK GREY PMS 425	FOLLOW ARTWORK	AG-501	4" X 17"	ZINC ETCHED	1	PEDESTAL MOUNTED
ILLUMINATED SIGNAGE												
E-27	-		ST GEORGE AUX EXIT	-	-	-	-	AG-502	16" X 60"	STAINLESS STEEL	1	DOUBLE SIDED SIGN BOX- 2 SIGN FACES. PERMANENT SIGNBOX TO REMAIN AFTER TEMP STATION.
P-20	OP		LIGHTBOX - ST GEORGES COURT, STREET LEVEL	[CALIFORNIA] [CTA BLUE LINE]	WHITE	BLUE PMS 299	SIGNBOX INSERT	AG-502	16" X 60"	FIBERGLASS TRANSLUCENT CLEAR	2	TEMPORARY SIGNAGE - DOUBLE SIDED SIGN BOX- 2 TOTAL FACES
NON-ILLUMINATED SIGNAGE												
P-1C	OP-12289		TEMP STATION - FOOT OF STAIRS	←OUT→	BLACK	YELLOW PMS 116C	H		6" X 24"	COROPLAST	1	TEMPORARY SIGNAGE
P-1E	OP-12213		TEMP STATION - ABOVE ROTOGATE	OUT [NO BIKES] [NO STROLLERS] [NO LUGGAGE]	VARIOUS	YELLOW PMS 116C	H		6" X 24"	COROPLAST	1	TEMPORARY SIGNAGE
P-2A	OP-5561		TEMP STATION - UNPAID AREA	NO LOITERING PERMITTED	VARIOUS	WHITE	W	AG-503	7.375" X 12"	COROPLAST	1	TEMPORARY SIGNAGE
P-4A	OP-7708		TEMP STATION - UNPAID AREA	NO SMOKING	BLACK, WHITE, RED PMS 200	WHITE	W	AG-503	7.375" X 12"	COROPLAST	1	TEMPORARY SIGNAGE
P-4c	OP-7708		TEMP STATION - UNPAID AREA	NO SMOKING WITHIN 15FT	BLACK, WHITE, RED PMS 200	WHITE	W	AG-503	7.375" X 12"	COROPLAST	1	TEMPORARY SIGNAGE
P-6	OP-3173		TEMP STATION - ABOVE ROTOGATE	STOP! NO ENTRY	BLACK, WHITE, RED PMS 200	WHITE	U		4" X 24"	COROPLAST	1	TEMPORARY SIGNAGE
P-14A	OP-7361		TEMP STATION - UNPAID AREA	HOLD ON TO YOUR CHILDREN	YELLOW, RED, PMS 200, BLACK, WHITE	YELLOW	W	AG-503	7.375" X 12"	COROPLAST	2	TEMPORARY SIGNAGE
P-16A	OP-10130		TEMP STATION EXIT DOORS	[STOP] NO ENTRY / EMERGENCY EXIT ONLY	WHITE	RED PMS 200	L		12" X 28"	COROPLAST	2	TEMPORARY SIGNAGE
P-16B	OP-10130		TEMP STATION EXIT DOORS	[STOP] EMERGENCY EXIT ONLY	WHITE	RED PMS 200	L		12" X 28"	COROPLAST	1	TEMPORARY SIGNAGE
P-16G	OP-10132		TEMP STATION EXIT DOORS	← EXIT THRU TURNSTILE ONLY	WHITE	BLACK	L		12" X 28"	COROPLAST	2	TEMPORARY SIGNAGE
P-16H	OP-10132		TEMP STATION EXIT DOORS	ENTER TO TRAINS THRU TURNSTILE ONLY →	WHITE	BLACK	L		12" X 28"	COROPLAST	1	TEMPORARY SIGNAGE
P-17	OP-5743-R2		TEMP STATION - UNPAID AREA	CUSTOMER ALERT	BLACK	STAINLESS STEEL	PER CTA DRILL PATTERN	AG-503	19.25" X 27.5"	STAINLESS STEEL	2	TEMPORARY SIGNAGE
P-19	FE-7861		TEMP STATION - UNPAID AREA	RAIL TRANSIT SYSTEM MAP	VARIOUS	WHITE	-	AG-503	27" X 40"	DIGITAL OUTPUT	1	TEMPORARY SIGNAGE - PROVIDE KRAMDEN FRAME
P-20	OP		TEMP STATION - ABOVE ENTRANCE	[CALIFORNIA] [CTA BLUE LINE]	BLUE PMS 299	WHITE	-		16" X 60"	COROPLAST	1	TEMPORARY SIGNAGE - PROVIDE ALPINA P-20 FRAME
P-33	OP		4TH STAIR RISERS	[O'HARE ✈] OR [FOREST PARK]	BLUE PMS 299	WHITE	J		36" X 4"	FIBERGLASS	8	TEMPORARY SIGNAGE
P-37W	-		TEMP STATION - UNPAID AREA	TRANSIT INFORMATION PANEL	VARIOUS	EGGSHELL PAINT	CUSTOM	AG-503	96" X 66"	BIRCH PLYWOOD	1	TEMPORARY SIGNAGE
P-39	-		TEMP STATION - UNPAID AREA	STATION SPECIFIC TIMETABLE	VARIOUS	WHITE	-	AG-503	27" X 40"	DIGITAL OUTPUT	1	TEMPORARY SIGNAGE - PROVIDE KRAMDEN FRAME
P-41L	OP-8255		TEMP STATION - BIKE RACK ON CHAINLINK FENCE	LOCK BIKES ONLY TO BIKE RACK	BLACK, GREEN, RED	WHITE	B		7.375" X 12"	FIBERGLASS	1	TEMPORARY SIGNAGE - PROVIDE GROMMETS FOR INSTALLATION TO CHAINLINK FENCE
P-43	OP-9011		TEMP STATION - UNPAID AREA	SURVEILLANCE CAMERAS	RED PMS 200	WHITE	W	AG-503	7.375" X 12"	COROPLAST	1	TEMPORARY SIGNAGE
P-44	OP-8989-R1		TEMP STATION - UNPAID AREA	DO NOT FEED BIRDS	VARIOUS	WHITE	W	AG-503	7.375" X 12"	COROPLAST	1	TEMPORARY SIGNAGE
P-63	OP-12310		ABOVE TVMS	FARES AND TICKETS	WHITE	BLACK	BA		72" X 12"	COROPLAST	1	TEMPORARY SIGNAGE

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TEMP SIGNAGE SCHEDULE

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TEMP SIGNAGE SCHEDULE

SIGN MARK	DESIGN NO.	THUMBNAIL	INSTALL LOCATION	SIGN MESSAGE	GRAPHIC COLOR(S)	BACKGROUND COLOR(S)	DRILLING PATTERN	MOUNTING DETAIL	OVERALL SIZE	MATERIALS	QTY	NOTES
P-66	OP-11459		TEMP STATION - ENTRY DOORS	NO CONCEALED CARRY SYMBOL	BLACK, RED PMS 200	WHITE	-		4" X 6"	COROPLAST	2	TEMPORARY SIGNAGE
P-68	OP-9787		TEMP STATION - UNPAID AREA	RULES OF CONDUCT	VARIOUS	WHITE	-	AG-503	12" X 28"	COROPLAST	1	TEMPORARY SIGNAGE
P-69	FE-7861		TEMP STATION - UNPAID AREA	CHICAGOLAND BUS & RAIL MAP	VARIOUS	WHITE	-	AG-503	27" X 40"	DIGITAL OUTPUT	1	TEMPORARY SIGNAGE - PROVIDE KRAMDEN FRAME
P-74	-		STAIR #2 LANDING	DIRECTIONAL MAP SIGN	VARIOUS	WHITE	-	A-509	24" X 48"	COROPLAST	2	TEMPORARY SIGNAGE - PROVIDE ALPINA FRAME AND LEXAN FOR EACH SIGN
P-74H	-		STAIR #2 LANDING	DIRECTIONAL MAP SIGN HEADER	VARIOUS	WHITE	-	A-509	24" X 12"	COROPLAST	2	TEMPORARY SIGNAGE - PROVIDE ALPINA FRAME AND LEXAN FOR EACH SIGN

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JOHNSON LASKY KINDELIN ARCHITECTS

CHICAGO TRANSIT AUTHORITY
ENGINEERING

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APPROVED BY	M. KINDELIN
CHECKED BY	JW
DESIGNED BY	JW
DRAWN BY	JW, JC, RS, HN

MARK	DATE	DESCRIPTION
0	12/30/2024	ISSUE FOR BID

TEMP SIGNAGE SCHEDULE

LSCAL | AG-604

VOLUME: 1 OF 1

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SHEET INDEX

Q-001	EQUIPMENT COVER SHEET
Q-002	GENERAL ELEVATOR INFORMATION
Q-003	PLANS AND HOISTWAY SECTION - ELEVATOR 1
Q-004	PLANS AND HOISTWAY SECTION - ELEVATOR 2
Q-005	MACHINE ROOM PLAN - ELEVATORS 1-2

GENERAL NOTES

1. THESE DRAWINGS ARE FOR GENERAL INFORMATION ONLY. REQUIREMENTS OF INDIVIDUAL VENDORS MAY VARY.
2. THESE DRAWINGS ARE TO BE DISTRIBUTED TO APPROPRIATE CONSULTING AND ENGINEERING FIRMS, INCLUDING ARCHITECT, STRUCTURAL, ELECTRICAL AND MECHANICAL ENGINEERS.
3. ROUGH OPENING DIMENSIONS FOR ELEVATOR ENTRANCES APPLY ONLY IN CASE OF MASONRY OR CONCRETE CONSTRUCTION.
4. VERTICAL STRUCTURE SUPPORT FOR RAIL BRACKETING IS PROVIDED BY HOISTWAY WALLS IN THE CASE OF REINFORCED CONCRETE HOISTWAY CONSTRUCTION.

ABBREVIATIONS

AFF	ABOVE FINISH FLOOR
A/C	AIR CONDITIONING
ALT.	ALTERNATE
AC	ALTERNATING CURRENT
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
AMP	AMPERE
APPROX.	APPROXIMATE
ARCH.	ARCHITECTURAL
AHJ	AUTHORITY HAVING JURISDICTION
AUX	AUXILIARY
BSMT	BASEMENT
Btu/h	BRITISH THERMAL UNITS PER HOUR
BOCA	BUILDING OFFICIALS AND CODE ADMINISTATION
CLG	CEILING
°C	CELSIUS
℄	CENTERLINE
cm	CENTIMETERS
CLR	CLEAR
COL.	COLUMN
CONC.	CONCRETE
CMU	CONCRETE MASONRY UNITS
CONT.	CONTINUOUS
CONTR.	CONTRACTOR
CNTRL	CONTROLLER
COORD	COORDINATE
CWT	COUNTERWEIGHT
CYL.	CYLINDER
DEH	DEAD END HITCH
°	DEGREES
DTL	DETAIL
ø	DIAMETER
DIM.	DIMENSION
DC	DIRECT CURRENT
DISC.	DISCONNECT
DBG	DISTANCE BEWEEN GUIDE RAILS
DN	DOWN
DWG	DRAWING
EA.	EACH
ELEC.	ELECTRICAL
EL.	ELEVATION
ELEV.	ELEVATOR
ETS	EMERGENCY TERMINAL SLOWDOWN
EQ	EQUAL
EQUIP.	EQUIPMENT
ESCL.	ESCALATOR
(E)	EXISTING
°F	FAHRENHEIT
FPM	FEET PER MINUTE
F.V.	FIELD VERIFY
F.F.	FINISH FLOOR
FLR	FLOOR
FT (')	FOOT (FEET)
fc	FOOTCANDLE
F	FRONT OPENING
FUT.	FUTURE
GA.	GAUGE
GOV.	GOVERNOR
G	GRAVITY
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
HT	HEIGHT
HZ	HERTZ
HSTWY	HOISTWAY
HORIZ.	HORIZONTAL
hp	HORSEPOWER
hr	HOUR
HYDRO	HYDRAULIC
in. (")	INCH (INCHES)
IGBT	INSULATED GATE BIPOLAR TRANSDUCER
IBC	INTERNATIONAL BUILDING CODE
J/s	JOULES PER SECOND
Kcal	KILOCALORIE
kg	KILOGRAMS
kN	KILONEWTONS
kPa	KILOPASCALS
kVA	KILOVOLT-AMPERE
kWh	KILOWATT HOUR
kW	KILOWATTS
K	KIPS
LT	LIGHT
MACH.	MACHINE
MRL	MACHINE ROOM-LESS
MAX.	MAXIMUM
m	METER
m/s	METERS PER SECOND
MEZZ.	MEZZANINE
mm	MILLIMETERS
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MG	MOTOR-GENERATOR
MTD.	MOUNTED
NEC	NATIONAL ELECTRICAL CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
(N)	NEW
N	NEWTONS
N/A	NOT APPLICABLE
NTS	NOT TO SCALE
NO.	NUMBER
O.C.	ON CENTER
OPNG	OPENING
OPP.	OPPOSITE
O.A.	OVERALL
OVHD	OVERHEAD
PL	PLATE
PLTFM	PLATFORM
#	POUNDS
psi	POUNDS PER SQUARE INCH
PRELIM.	PRELIMINARY
RAD.	RADIUS
R	REAR OPENING
REQ.	REQUIRED
REV.	REVISION
RM	ROOM
R.O.	ROUGH OPENING
SEC.	SECONDARY
SECT.	SECTION
SHT	SHEET
SCCR	SHORT CIRCUIT CURRENT RATING
SCR	SILICON CONTROL RECTIFIER
SIM.	SIMILAR
SPEC.	SPECIFICATION
sq.ft	SQUARE FEET
sq.in	SQUARE INCH(ES)
sq.m	SQUARE METERS
sq.mm	SQUARE MILLIMETERS
STD	STANDARD
SBC	STANDARD BUILDING CODE
STL	STEEL
STRUCT.	STRUCTURAL
SW.	SWITCH
TBD	TO BE DETERMINED
T.O.	TOP OF
(TYP.)	TYPICAL
UBC	UNIFORM BUILDING CODE
UNO	UNLESS NOTED OTHERWISE
V.I.F.	VERIFY IN FIELD
VERT.	VERITICAL
V.	VOLT
W.	WIDE
W/	WITH
WP	WORKPOINT

WORK BY OTHERS NOTES

LEGAL HOISTWAY AND PIT

HOISTWAY: CLEAR, PLUMB, SUBSTANTIALLY FLUSH WITH VARIATIONS NOT TO EXCEED 25 MM (1") WITHIN 30 M (100') VERTICALLY AT ANY POINT.

GLASS-ENCLOSED HOISTWAYS: LAMINATED GLASS TO MEET THE REQUIREMENTS OF ANSI Z97.1. INTERIOR LEDGES CREATED BY MULLIONS SHALL NOT EXCEED 100 MM (4") DEEP PER 2000+ ASME CODE (2" PER PREVIOUS ASME CODE).

BEVEL CANTS: NOT LESS THAN 75° FROM THE HORIZONTAL ON ANY REAR OR SIDE WALL LEDGES AND BEAMS, INCLUDING BUILDING SUPPORT FOR TRACTION MACHINE BEAMS, THAT PROJECT OR RECESS 100 MM (4") OR MORE INTO THE HOISTWAY PER ASME A17.1 2000+ CODE (50 MM (2 ") FOR CALIFORNIA, NEW YORK CITY, OR PREVIOUS ASME A17.1 CODES). CANTS NOT REQUIRED ON DIVIDER BEAMS. ENCLOSE WEB OF HOISTWAY STEEL FRAMING.

GUIDE RAIL SUPPORT: ADEQUATE STRUCTURAL SUPPORT FOR ATTACHMENT OF ELEVATOR CAR AND/OR COUNTERWEIGHT GUIDE RAILS AT EACH FLOOR, PIT AND OVERHEAD.

SUPPORTS AT EACH FLOOR FOR CAR GUIDE RAIL FASTENING, AND INTERMEDIATE SUPPORTS WHERE FLOOR HEIGHTS EXCEED SPACING REQUIREMENTS SHOWN ON LERCH BATES DRAWINGS. BUILDING SUPPORTS NOT TO DEFLECT IN EXCESS OF 3.175MM (1/8") UNDER NORMAL CONDITIONS.

GUIDE RAIL BRACKET SUPPORTS IN CONCRETE. INSERTS OR IMBEDS, IF USED, WILL BE PROVIDED BY ELEVATOR CONTRACTOR AND INSTALLED BY GENERAL CONTRACTOR. VERIFY LOCATION ON ELEVATOR CONTRACTOR'S SHOP DRAWINGS.

CUTTING AND PATCHING WALLS, BEAMS AND FLOORS.

WALL BLOCK-OUTS AND FIRE-RATED CLOSURE FOR CONTROL AND SIGNAL FIXTURE BOXES WHICH PENETRATE WALLS.

ERECT FRONT HOISTWAY WALL FOR SHAFT WALL CONSTRUCTION AFTER ELEVATOR ENTRANCE FRAMES HAVE BEEN INSTALLED.

ROUGH OPENINGS: IF FRONT HOISTWAY WALLS ARE CONCRETE OR MASONRY, FOR HYDRAULIC APPLICATIONS, FORM ROUGH OPENINGS 380 MM (15 ") GREATER IN WIDTH AND 380 MM (15 ") GREATER IN HEIGHT THAN CLEAR OPENING. FOR MRL APPLICATIONS, FORM ROUGH OPENINGS 500 MM (20 ") GREATER IN WIDTH AND 380 MM (15 ") GREATER IN HEIGHT THAN CLEAR OPENING. GROUT ROUGH OPENINGS AFTER ELEVATOR ENTRANCE FRAMES HAVE BEEN INSTALLED.

HOIST BEAM AT TOP OF EACH HOISTWAY FOR HYDRAULIC ELEVATOR EQUIPMENT INSTALLATION AND MAINTENANCE AS INDICATED IN LERCH BATES SECTION DRAWINGS. BOTTOM OF BEAM SHALL MEET THE MINIMUM CLEAR DIMENSION. MAKE HOIST BEAM REMOVABLE IF NECESSARY TO MEET MINIMUM CLEAR DIMENSION. VERIFY HOIST BEAM LOCATION AND LOAD REQUIREMENTS WITH ELEVATOR CONTRACTOR.

SOUND-ATTENUATING ASSEMBLIES FOR WALLS OF MACHINE ROOM AND / OR HOISTWAY WHERE SOUND-SENSITIVE AREAS ARE ADJACENT.

PIT ACCESS LADDER FOR EACH ELEVATOR.

STRUCTURAL PIT FLOOR FOR HYDRAULIC CYLINDER, GUIDE RAIL, AND BUFFER LOADS. CYLINDER, GUIDE RAIL, AND BUFFER IMPACT LOADS DO NOT OCCUR SIMULTANEOUSLY.

WATERPROOF PIT: INDIRECT WASTE DRAIN OR SUMP WITH FLUSH GRATE AND PUMP. FOR A17.1 2007+, PROVIDE MINIMUM SUMP PUMP/DRAIN CAPACITY OF 3000 GALLONS/HOUR PER ELEVATOR.

PROTECT OPEN HOISTWAYS AND ELEVATOR ENTRANCES DURING CONSTRUCTION PER OSHA REGULATIONS.

PROTECT CAR ENCLOSURE , ELEVATOR ENTRANCES AND SPECIAL METAL FINISHES FROM DAMAGE AFTER INSTALLATION.

SMOKE VENTING: FOR ALL ELEVATOR HOISTWAYS, PROVIDE MIN. 0.3 SM (3 SF) SMOKE VENTING PER ELEVATOR OR 3.5% OF THE TOTAL HOISTWAY AREA (WHICHEVER IS GREATER). PROVIDE AIR-TIGHT NORMALLY-OPEN, POWERED-CLOSED DAMPERS. DAMPERS SHALL AUTOMATICALLY OPEN UPON THE ACTIVATION OF ANY FIRE ALARM INITIATING DEVICE OF THE BUILDING'S FIRE ALARM SYSTEM OR UPON THE INTERRUPTION OF POWER TO THE DAMPER MOTOR.

HOISTWAY PRESSURIZATION AS REQUIRED PER LOCAL CODE.

LEGAL MACHINE ROOMS AND CONTROLLER SPACES

WALL ENCLOSURES ERECTED AT MACHINE ROOM LEVEL AFTER PUMP UNIT IS SET IN PLACE. SOUND-ATTENUATION FOR WALLS ADJACENT TO TENANT SPACE.

BLOCK-OUTS THROUGH MACHINE ROOM FLOOR AND/OR WALLS FOR HYDRAULIC OIL LINE, AND ELECTRICAL WIRING DUCTS. VERIFY LOCATION ON ELEVATOR CONTRACTOR SHOP DRAWINGS.

SELF-CLOSING, SELF-LOCKING ACCESS DOOR OR GATE FOR MACHINE ROOM. KEYING MUST BE INDEPENDENT OF ANY OTHER BUILDING LOCKS. DOOR OR GATE SHALL BE OPENABLE FROM INSIDE WITHOUT KEY. SOUND-ATTENUATING DOORS WHERE ACCESS IS FROM ADJACENT TENANT SPACE. RECOMMEND MINIMUM 1070 MM X 2130 MM (3'-6" X 7'-0") DOOR.

MACHINE AND CONTROLLER SPACE VENTILATION AND HEATING; FOR IBC, INDEPENDENT VENTILATION OR AIR-CONDITIONING SYSTEM TO PREVENT OVERHEATING OF SOLID-STATE ELECTRICAL EQUIPMENT. MAINTAIN MINIMUM TEMPERATURE OF 13°C (55°F). (10°C (50°F) IN MASS.) MAXIMUM 32°C (90°F). MAINTAIN MAXIMUM 80% RELATIVE HUMIDITY, NON-CONDENSING. HVAC UNIT MAY BE LOCATED WITHIN THE BOUNDS OF THE MACHINE/CONTROLLER ROOM IF SOLELY FOR THE HEATING OR COOLING OF THAT MACHINE/CONTROLLER ROOM.

MINIMUM HEADROOM CLEARANCES; 2400 MM (8'-0") RECOMMENDED UNDER MACHINE ROOM / CONTROLLER SPACE CEILING AND 2275 MM (7'-6") UNDER ENCROACHING BEAMS (INCLUDING FIREPROOFING). CODE MINIMUM CLEARANCE: 2130 MM (7'-0").

CLASS "ABC" FIRE EXTINGUISHER IN EACH ELEVATOR MACHINE ROOM / CONTROLLER SPACE.

MACHINE ROOM SHALL HAVE A FIRE ENDURANCE AT LEAST EQUAL TO THAT REQUIRED FOR THE HOISTWAY ENCLOSURE AND THE HOISTWAY DOORS, RESPECTIVELY.

MACHINE ROOM SHALL BE VENTED PER 524 CMR 35.00.

ONLY EQUIPMENT USED IN CONJUNCTION WITH THE FUNCTION OF THE ELEVATOR SHALL BE PERMITTED IN THE ELEVATOR MACHINE ROOM AND CONTROLLER SPACE. ACCESS THROUGH ELEVATOR MACHINE ROOM TO ADJACENT ROOMS OR AREAS SHALL NOT BE PERMITTED. PERMANENT AND UNOBSTRUCTED ACCESS TO MACHINE ROOM SHALL BE PROVIDED FOR AUTHORIZED PERSONNEL.

ELECTRICAL SERVICES

LIGHTING AND GFCI CONVENIENCE OUTLETS IN PIT AND MACHINE ROOM. (NO GFCI PROTECTION FOR SUMP PUMP IN MINNESOTA.) ADEQUATE LIGHTING TO MAINTAIN 100 LUX (10 FC) MINIMUM ILLUMINATION AT THE PIT FLOOR, AND 200 LUX (19 FC) AT THE MACHINE ROOM FLOOR, CONTROL ROOM FLOOR, AND OVERHEAD AND SECONDARY MACHINERY SPACES.

THREE-PHASE MAINLINE COPPER POWER FEEDER TO TERMINALS OF EACH ELEVATOR CONTROLLER WITH PROTECTED, LOCKABLE "OPEN", DISCONNECTING MEANS MEETING NEC REQUIREMENTS. LOCATE DISCONNECTING MEANS IN THE MACHINE ROOM. VERIFY CONTROLLER LOCATION ON ELEVATOR SHOP DRAWINGS. PROVIDE CLEARANCES AROUND DISCONNECTING MEANS AS REQUIRED BY CODE. AUXILIARY CONTACTS FOR HYDRAULIC ELEVATORS FOR BATTERY LOWERING DEVICE ELECTRICAL INTERLOCK.

SINGLE-PHASE COPPER POWER FEEDER TO EACH CONTROLLER FOR CAR LIGHTING, EXHAUST BLOWER AND CONVENIENCE OUTLET WITH PROTECTED, LOCKABLE "OPEN", DISCONNECTING MEANS MEETING NEC REQUIREMENTS. LOCATE DISCONNECTING MEANS IN THE MACHINE ROOM. VERIFY CONTROLLER LOCATION ON ELEVATOR SHOP DRAWINGS.

TWO "NORMALLY-OPEN" AUXILIARY CONTACTS FOR HYDRAULIC ELEVATORS INSTALLED ON EACH MAIN LINE DISCONNECTING MEANS LOCATED IN THE ELEVATOR MACHINE ROOM.

FIRE ALARM INITIATING DEVICES IN EACH ELEVATOR LOBBY, FOR SINGLE HOISTWAY AND MACHINE ROOM, TO INITIATE FIREFIGHTER'S RETURN FEATURE. DEVICE AT TOP OF HOISTWAY IF SPRINKLERED (SPRINKLERING NOT ALLOWED IN MASS). PROVIDE A DISCRETE SIGNAL FROM EACH OF THE FOLLOWING ZONES OR DETECTORS: MAIN LOBBY, ALL OTHER LOBBIES, EACH HOISTWAY, AND EACH MACHINE ROOM

TEMPORARY POWER AND ILLUMINATION TO INSTALL, TEST AND ADJUST ELEVATOR EQUIPMENT.

EMERGENCY TELEPHONE LINE TO EACH INDIVIDUAL ELEVATOR CONTROL PANEL IN ELEVATOR MACHINE ROOM.

SINGLE-PHASE POWER FEEDERS TO CONTROLLER(S) FOR CCTV WITH LOCKABLE "OPEN", DISCONNECTING MEANS MEETING NEC REQUIREMENTS.

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EQUIPMENT COVER SHEET

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Q-001

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SUMMARY OF ELEVATORS

ELEVATOR NUMBER	CAPACITY (#)	SPEED (FPM)	APPLICATION
1	4500	150	CORNERPOST IN-GROUND HYDRAULIC
2	4500	150	CORNERPOST IN-GROUND HYDRAULIC

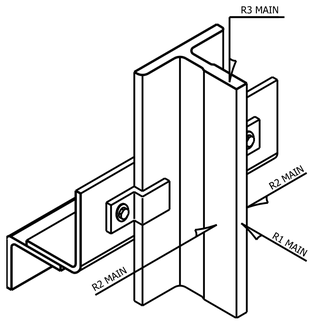
ELEVATOR ELECTRICAL AND MECHANICAL REQUIREMENTS

POWER FEEDER REQUIREMENTS (MAIN POWER SUPPLY: 208-3-60 ASSUMED)									
					STARTING AMPS (PER MOTOR)			FULL LOAD AMPS (PER MOTOR)	HEAT RELEASE*
ELEVATOR NUMBER	CAPACITY (#)	SPEED (FPM)	NUMBER OF MOTORS	HYDRO PUMP HP (PER MOTOR)	LOCKED ROTOR	SOLID STATE	WYE DELTA	RUNNING	MACHINE SPACE BTUH PER CAR
1	4500	150	1	75	1138	616	359	205	44,550
2	4500	150	1	75	1138	616	359	205	44,550
* HEAT RELEASE BASED ON 120 UPSTARTS/HR									
ADDITIONAL POWER AND DISCONNECT REQUIREMENTS IN MACHINE ROOM									
AUXILIARY SYSTEM			SUPPLY TERMINAL		SUPPLY VOLTAGE			CIRCUIT CAPACITY	
CAR LIGHT AND FAN WITH LOCKABLE DISCONNECT			EACH CONTROLLER		120-1-60			17 AMP PER CAR	
INTERCOM SYSTEM (IF APPLICABLE)			AT AMPLIFIER		120-1-60			1800 WATTS (15 AMP MIN)	
AIR CONDITIONING AND HEATING SOURCE (IF APPLICABLE)			EACH CONTROLLER		120-1-60			20 AMP PER CAR	
CONDENSATE EVAPORATOR UNIT FOR AIR CONDITIONING (IF APPLICABLE)			EACH CONTROLLER		120-1-60			25 AMP PER CAR	

NOTES:

1. ELECTRIC POWER AND CURRENT ARE BASED ON THREE (3) PHASE A.C. POWER SUPPLY.
2. MAIN POWER TO BE PROVIDED AT EACH CONTROLLER THROUGH DISCONNECTING MEANS MEETING NEC REQUIREMENTS.
3. MAIN POWER SUPPLY FEEDERS TO LIMIT VOLTAGE DROP TO LESS THAN 5%. MAX SCCR FOR ALL DISCONNECT FEEDER DESIGNS BASED ON 5KA RATING (NEC SECTION 409.022 AND UL506A SUPPLEMENT SB.
4. USE COPPER CONDUCTORS ONLY.
5. FEEDER DEMAND FACTORS (NEC SECTION 430.026 AND 620.014)= (2) CARS= 95% (3) CARS= 90% (4) CARS= 85% (5) CARS= 82% (6) CARS= 79% (7) CARS= 77% (8) CARS= 75% (9) CARS= 73% (10) CARS= 72%
6. MACHINE ROOM TEMPERATURE TO BE MIN. 55° F (13° C), MAX. 90° F (32° C). TO BE MEASURED 6'-0" (1838 mm) ABOVE FINISH FLOOR AT APPROXIMATELY CENTER OF ROOM.
7. RELATIVE HUMIDITY MAX. 80% NON-CONDENSING.
8. THE SELECTION OF MAIN POWER SUPPLY DISCONNECTING MEANS OVERCURRENT PROTECTION TO BE SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE, SECTIONS 620.051 AND 430.052.
9. PROVIDE LOCAL TELEPHONE SERVICE LINE TO EACH CAR CONTROLLER (IF APPLICABLE.)
10. PROVIDE GFCI CONVENIENCE OUTLETS PIT, MACHINE ROOM AND MACHINERY SPACES. IN PIT, PROVIDE ONE NON-GFCI OUTLET FOR SUMP PUMP AND/OR OIL RETURN PUMP.

RAIL FORCES



RAIL FORCES OCCURING ON:

NORMAL FORCES:
CAR R1 - FORCE APPLIED TO FACE OF MAIN RAIL
CAR R2 - FORCE APPLIED TO SIDE OF MAIN RAIL - LOADING OR RUNNING

NORMAL FORCES:

BUILDING SUPPORTS TO RESIST HORIZONTAL FORCES, AT THE POINT OF SUPPORT, WITH A TOTAL MAXIMUM DEFLECTION NOT TO EXCEED 1/8" (3 mm) UNDER NORMAL CONDITIONS. ALLOWABLE DEFLECTION CRITERIA TO BE DIVIDED IN HALF BETWEEN STRUCTURAL (1/16") AND AWARDED MANUFACTURER (1/16").

- BUILDING SUPPORTS TO RESIST HORIZONTAL FORCES, AT THE POINT OF SUPPORT, WITH A TOTAL MAXIMUM DEFLECTION NOT TO EXCEED 1/4" (6.4 mm) BASED UPON 0.25 G ACCELERATION DURING SEISMIC CONDITIONS. ALLOWABLE DEFLECTION CRITERIA TO BE DIVIDED IN HALF BETWEEN STRUCTURAL (1/8") AND AWARDED MANUFACTURER (1/8").

ELEVATOR NUMBER	NORMAL FORCES (FORCES IN KIPS)			
	CAR R1	CAR R2	CAR R3	CWT R3
1	1.1	1.7	N/A	N/A
2	1.1	1.7	N/A	N/A

SEISMIC INFORMATION			
SEISMIC DESIGN CATEGORY	ELEVATOR IMPORTANCE FACTOR	SDS	HORIZONTAL ACCELERATION EQUIVALENT (FOR REFERENCE ONLY)
A	1.5	0.108 G	N/A

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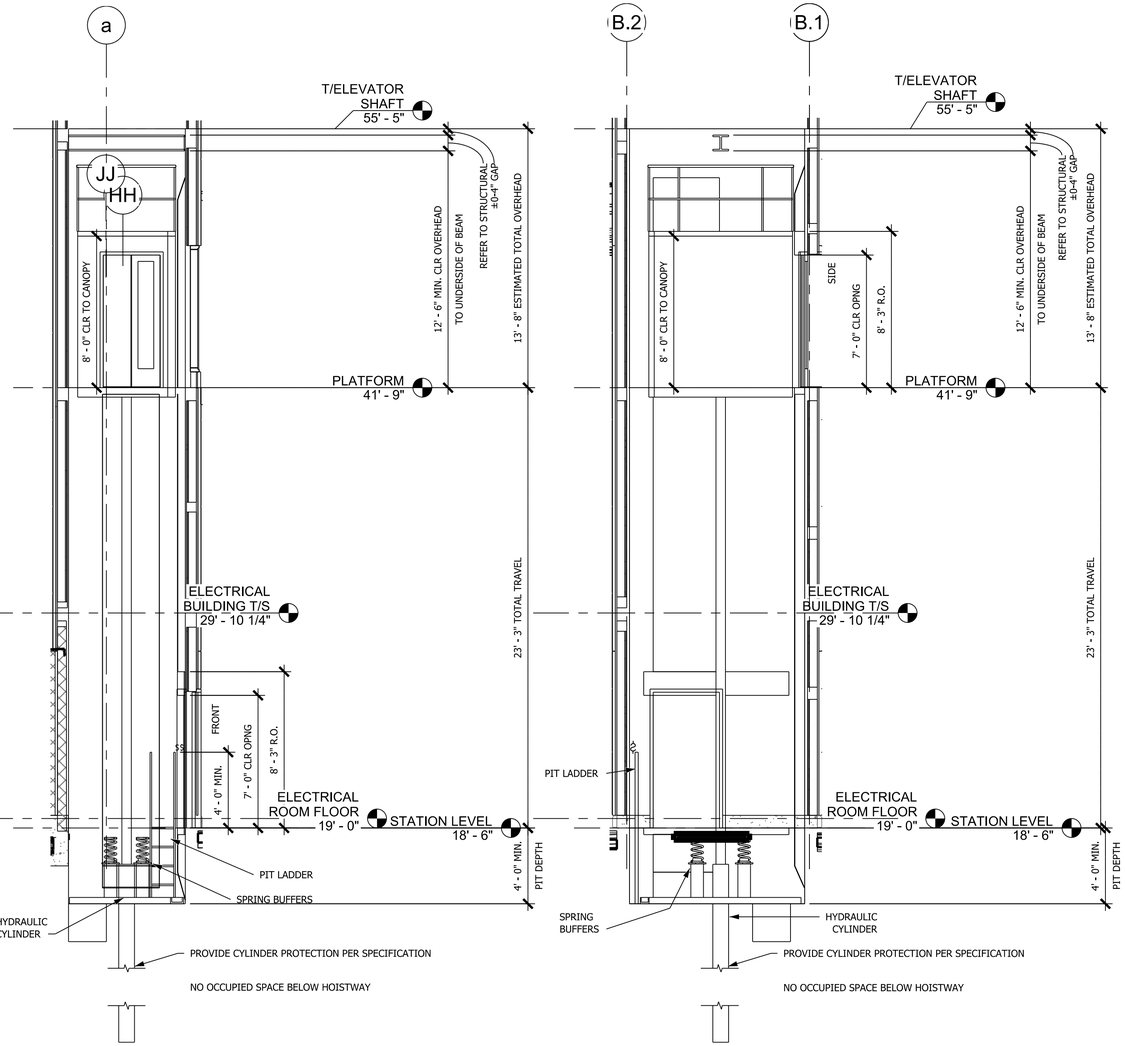
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GENERAL ELEVATOR INFORMATION

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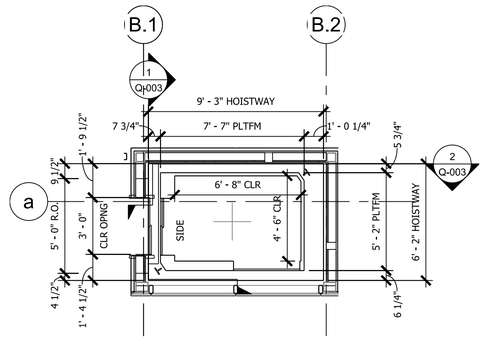
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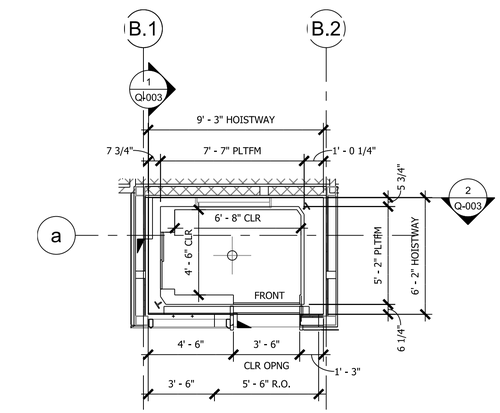


1 Q-003 HOISTWAY SECTION - ELEVATOR 1
SCALE: 1/4" = 1'-0"

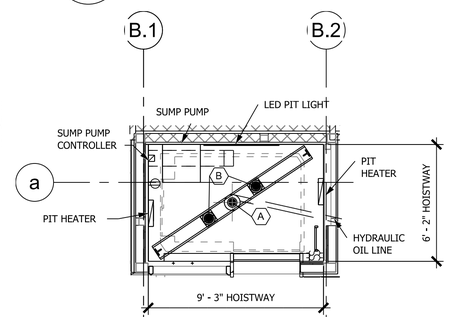
2 Q-003 TRANSVERSE HOISTWAY SECTION - ELEVATOR 1
SCALE: 1/4" = 1'-0"



5 Q-003 HOISTWAY PLAN - PLATFORM - ELEVATOR 1
SCALE: 1/4" = 1'-0"



4 Q-003 HOISTWAY PLAN - STATION LEVEL - ELEVATOR 1
SCALE: 1/4" = 1'-0"



3 Q-003 PIT PLAN - STATION LEVEL - ELEVATOR 1
SCALE: 1/4" = 1'-0"

ELEVATOR NUMBER	DUTY
1	4500# @ 150 FPM

HOISTWAY NOTES:

1. PROVIDE SMOKE VENTING PER LOCAL CODE REQUIREMENTS.
2. PROVIDE HOIST BEAM TO SUPPORT 11,300#. VERIFY HOIST BEAM LOCATION AND LOAD REQUIREMENTS WITH ELEVATOR CONTRACTOR.
3. PROVIDE 2 LIFELINE ATTACHMENTS AT THE TOP FRONT OF EACH HOISTWAY. EACH ATTACHMENT SHALL BE CAPABLE OF WITHSTANDING 5000# (2268 Kg) LOAD PER OSHA. COORDINATE LOCATION OF ATTACHMENTS WITH ELEVATOR CONTRACTOR.
4. PROVIDE STRUCTURAL SUPPORT FOR CAR GUIDE RAIL FASTENING AT 14'-0" (4270 mm) MAX. VERTICAL SPACING THROUGH TOP OF HOISTWAY. IF THIS SPACING CANNOT BE PROVIDED BY HOISTWAY PERIMETER BEAMS AT EACH FLOOR, AND IF ELEVATOR CONTRACTOR CANNOT PROVIDE BRACKETING FROM TOP AND BOTTOM FLANGE OF HOISTWAY PERIMETER BEAMS TO REDUCE THE SPAN AS NEEDED, PROVIDE INTERMEDIATE SUPPORT BEAMS OR CONTINUOUS VERTICAL STRUCTURE BETWEEN FLOOR BEAMS.
5. ALL VERTICAL DIMENSIONS THAT ARE DIMENSIONED FROM A BUILDING FLOOR ELEVATION ARE DIMENSIONED TO THE FINISH FLOOR ELEVATION.
6. VERTICAL OR ADDITIONAL HORIZONTAL STRUCTURAL SUPPORT FOR RAIL BRACKETING AS REQUIRED FOR CAR BOTH SIDES OF HOISTWAY TO MEET BRACKET SPACING CRITERIA INDICATED IN SECTION.
7. ELEVATOR CONTRACTOR TO PROVIDE CONTINUOUS FASCIA, CAR DOOR INTERLOCKS, OR GENERAL CONTRACTOR TO LOCATE ENTRANCE-FACING WALL INTO HOISTWAY 4" (100 mm.)
8. PROVIDE MIN. 75° BEVEL GUARD AT ANY LEDGE GREATER THAN 100 MM (4") AT REAR OR SIDE WALLS OF HOISTWAY TYPICAL.
9. ADDITIONAL STEEL MAY BE REQUIRED ABOVE HOISTWAY ENTRANCES WITH FLOOR-TO-FLOOR HEIGHTS TALLER THAN 14'-0".
10. PROVIDE ISOLATION BETWEEN GUIDE RAILS AND BRACKETS

PIT NOTES:

1. PROVIDE ADEQUATE LIGHTING TO MAINTAIN MIN. 10 fc (100 lux) ILLUMINATION AT PIT FLOOR.
2. PROVIDE PIT ACCESS LADDER(S) OR DOOR(S), LIGHT SWITCH(ES), LIGHT(S), AND GFCI-PROTECTED UTILITY OUTLET(S).
3. PROVIDE 8" X 8" (200 mm X 200 mm) BLOCKOUT FOR HYDRAULIC OIL LINE, AND 6" X 6" (150 mm X 150 mm) BLOCKOUT FOR ELECTRICAL CONDUIT FOR EACH ELEVATOR. VERIFY LOCATION WITH ELEVATOR CONTRACTOR.
4. VERIFY PATH OF OIL LINE WITH ELEVATOR CONTRACTOR.
5. COORDINATE LIGHT FIXTURES AND UTILITY OUTLETS LOCATION WITH ELEVATOR CONTRACTOR.
6. PROVIDE ADEQUATE STRUCTURAL SUPPORT AS REQUIRED FOR BUFFER AND HYDRAULIC CYLINDER REACTIONS.
7. PROVIDE INDIRECT PIT DRAIN OR 24"x24"x24" SUMP PUMP, WITH GRATING COVER, LEVEL WITH PIT FLOOR. PROVIDE MINIMUM SUMP PUMP/DRAIN CAPACITY OF 3000 GALLONS/HOUR PER ELEVATOR
8. ELEVATOR CONTRACTOR PROVIDE PERMANENT MEANS TO ACCESS UNDERSIDE OF CAR AS REQUIRED.
9. REACTIONS HAVE BEEN DOUBLED FOR IMPACT.
10. REACTIONS DO NOT OCCUR SIMULTANEOUSLY.
11. PROVIDE NON-CONDUCTIVE COATING ON PIT LADDER

PIT REACTION TABLE			
KEY	REACTION (FORCES IN KIPS)		DESCRIPTION
A	27.7		CAR CYLINDER
B	19.0	EACH	CAR BUFFER

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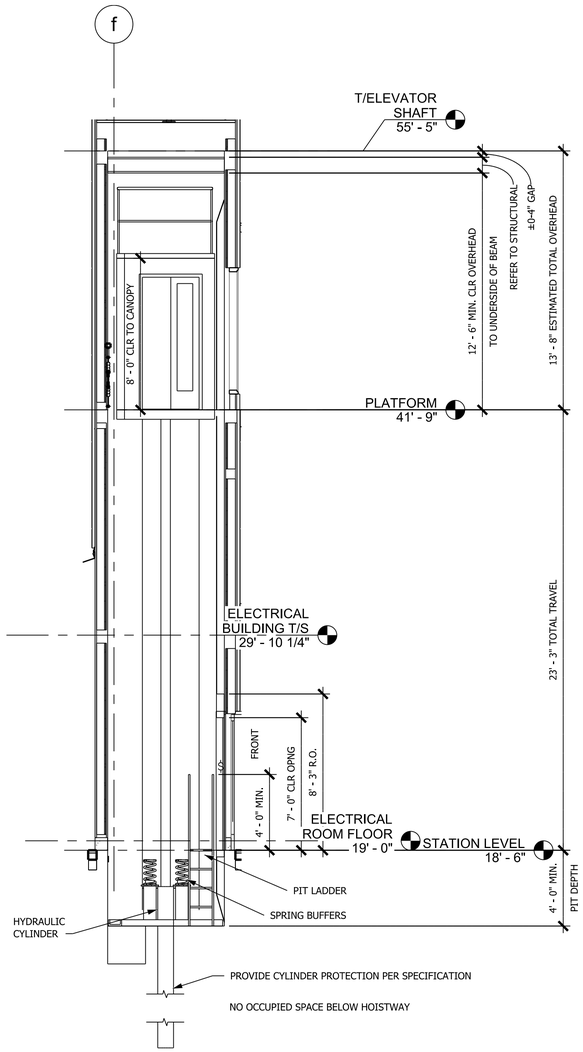
PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	LB
CHECKED BY	LB
DESIGNED BY	BA
DRAWN BY	BA

MARK	DATE	DESCRIPTION
0	12/30/24	ISSUE FOR BID

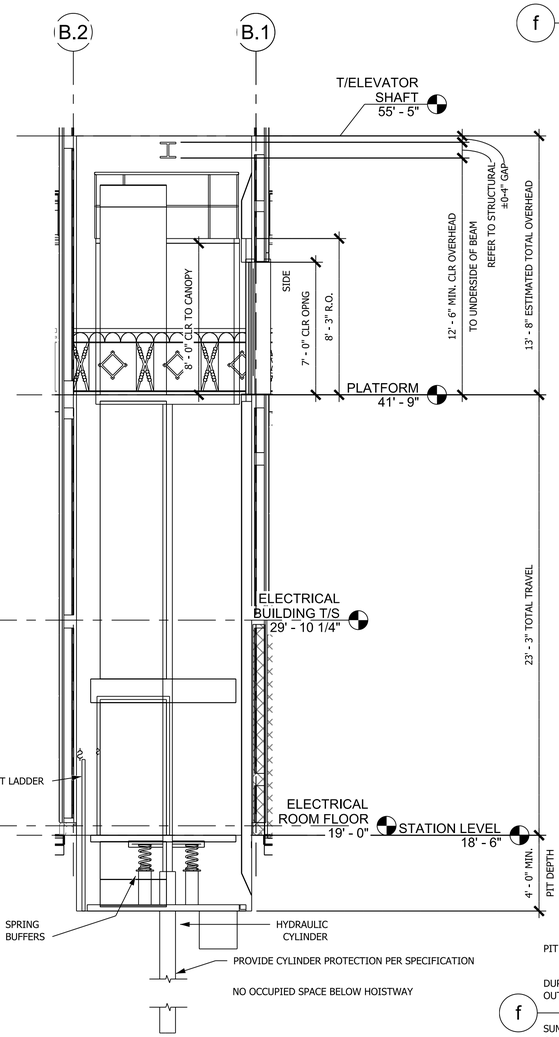
PLANS AND HOISTWAY SECTION - ELEVATOR 1

LSCAL | Q-003
VOLUME: X OF X

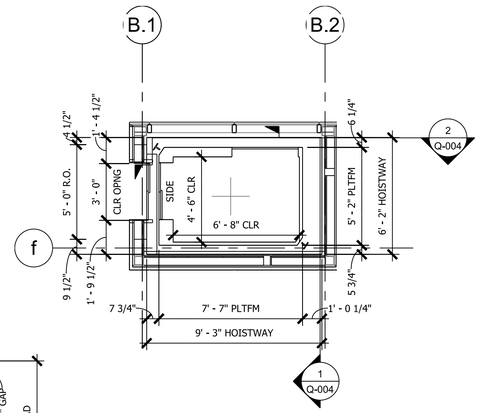
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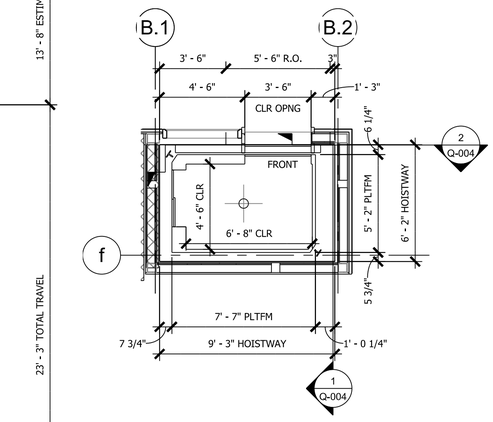
1 Q-004 HOISTWAY SECTION - ELEVATOR 2
SCALE: 1/4" = 1'-0"



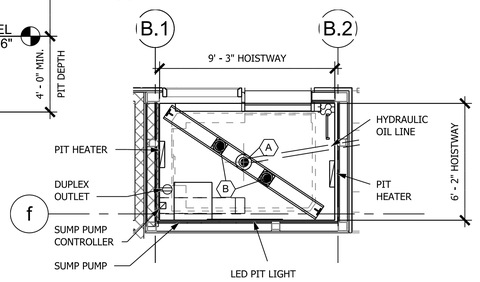
2 Q-004 TRANSVERSE HOISTWAY SECTION - ELEVATOR 2
SCALE: 1/4" = 1'-0"



5 Q-004 HOISTWAY PLAN - PLATFORM - ELEVATOR 2
SCALE: 1/4" = 1'-0"



4 Q-004 HOISTWAY PLAN - STATION LEVEL - ELEVATOR 2
SCALE: 1/4" = 1'-0"



3 Q-004 PIT PLAN - STATION LEVEL - ELEVATOR 2
SCALE: 1/4" = 1'-0"

ELEVATOR NUMBER	DUTY
2	4500# @ 150 FPM

HOISTWAY NOTES:

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3. PROVIDE 2 LIFELINE ATTACHMENTS AT THE TOP FRONT OF EACH HOISTWAY. EACH ATTACHMENT SHALL BE CAPABLE OF WITHSTANDING 5000# (2268 Kg) LOAD PER OSHA. COORDINATE LOCATION OF ATTACHMENTS WITH ELEVATOR CONTRACTOR.
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PIT NOTES:

1. PROVIDE ADEQUATE LIGHTING TO MAINTAIN MIN. 10 fc (100 lux) ILLUMINATION AT PIT FLOOR.
2. PROVIDE PIT ACCESS LADDER(S) OR DOOR(S), LIGHT SWITCH(ES), LIGHT(S), AND GFCI-PROTECTED UTILITY OUTLET(S).
3. PROVIDE 8" X 8" (200 mm X 200 mm) BLOCKOUT FOR HYDRAULIC OIL LINE, AND 6" X 6" (150 mm X 150 mm) BLOCKOUT FOR ELECTRICAL CONDUIT FOR EACH ELEVATOR. VERIFY LOCATION WITH ELEVATOR CONTRACTOR.
4. VERIFY PATH OF OIL LINE WITH ELEVATOR CONTRACTOR.
5. COORDINATE LIGHT FIXTURES AND UTILITY OUTLETS LOCATION WITH ELEVATOR CONTRACTOR.
6. PROVIDE ADEQUATE STRUCTURAL SUPPORT AS REQUIRED FOR BUFFER AND HYDRAULIC CYLINDER REACTIONS.
7. PROVIDE INDIRECT PIT DRAIN OR 24"x24"x24" SUMP PUMP, WITH GRATING COVER, LEVEL WITH PIT FLOOR. PROVIDE MINIMUM SUMP PUMP/DRAIN CAPACITY OF 3000 GALLONS/HOUR PER ELEVATOR
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PIT REACTION TABLE			
KEY	REACTION (FORCES IN KIPS)		DESCRIPTION
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B	19.0	EACH	CAR BUFFER

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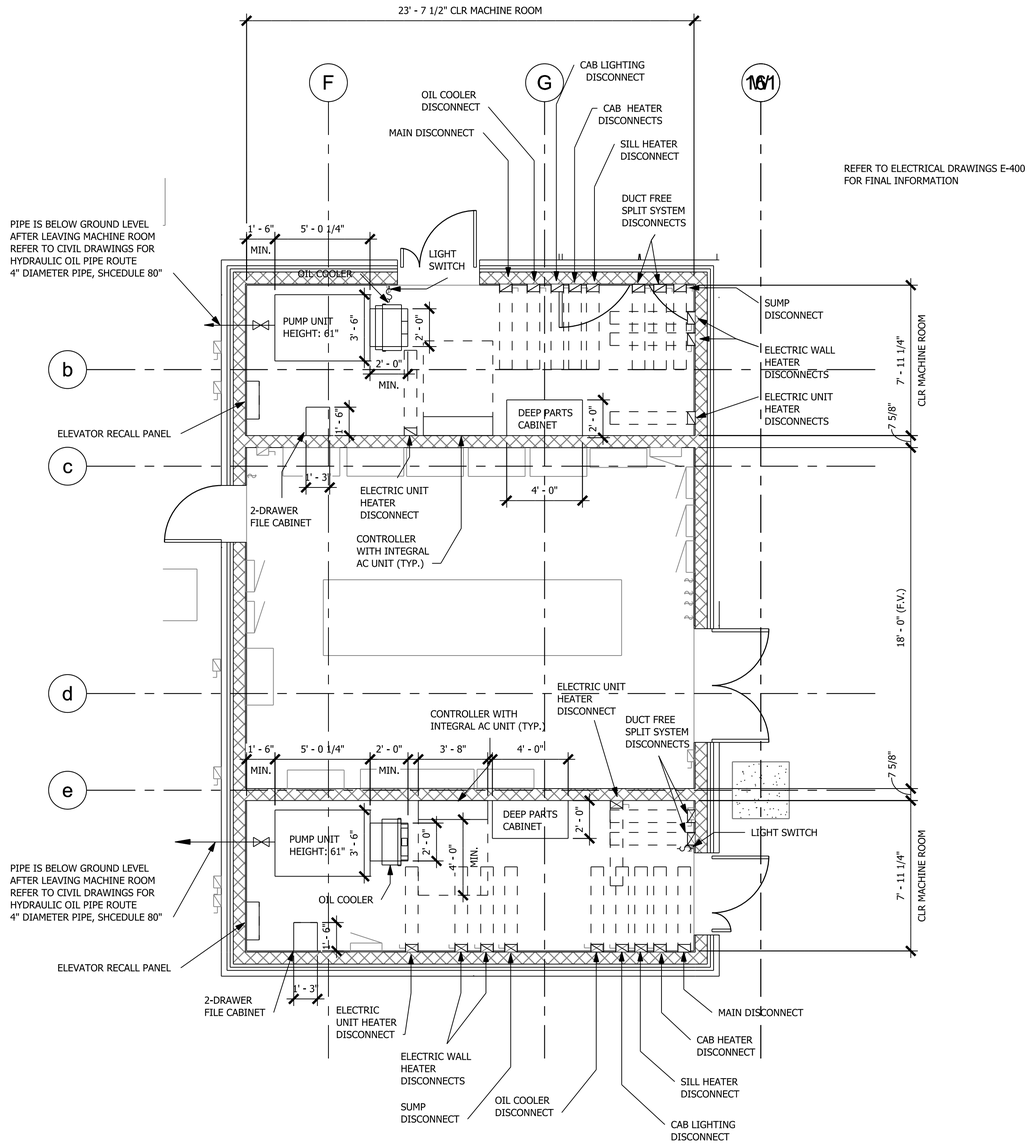
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IN CHARGE	I. COLLETTI
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CHECKED BY	LB
DESIGNED BY	BA
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PLANS AND HOISTWAY SECTION - ELEVATOR 2

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VOLUME: X OF X

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1 / Q-005 MACHINE ROOM PLAN - STATION LEVEL - ELEVATORS 1-2

SCALE: 1/4" = 1'-0"

MACHINE ROOM NOTES:

1. PROVIDE SELF-CLOSING, SELF-LOCKING CONTROL ROOM ACCESS DOOR.
2. PROVIDE 200 MM X 200 MM (8" X 8") BLOCKOUT FOR HYDRAULIC OIL LINE, AND 150 MM X 150 MM (6" X 6") BLOCKOUT FOR ELECTRICAL CONDUIT FOR EACH ELEVATOR. VERIFY LOCATION WITH ELEVATOR CONTRACTOR.
3. VERIFY PATH OF OIL LINE WITH ELEVATOR CONTRACTOR. THE MACHINE ROOM AND HOISTWAY SHALL BE LOCATED ON THE SAME SIDE OF AN EXPANSION JOINT.
4. PROVIDE ADEQUATE LIGHTING TO MAINTAIN MIN. 200 LUX (19 FC) ILLUMINATION AT MACHINE ROOM FLOOR.
5. COORDINATE LIGHT FIXTURES AND UTILITY OUTLETS LOCATION WITH ELEVATOR CONTRACTOR.
6. PROVIDE 3-PHASE MAINLINE POWER FEEDER WITH DISCONNECTING MEANS FOR EACH ELEVATOR CONTROLLER. PROVIDE 1-PHASE FEEDER WITH DISCONNECTING MEANS FOR CAR LIGHTING, VENTILATION SYSTEM AND RECEPTACLE FOR EACH ELEVATOR. THESE DISCONNECTING MEANS SHALL INCLUDE OVERCURRENT PROTECTION, SHALL BE LOCATED IN THE MACHINE ROOM, AND SHALL MEET N.E.C. REQUIREMENTS.
7. LOCATE MACHINE ROOM WITHIN 40'-0" OF HOISTWAY.

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PROJECT NO	2015.0027-04
IN CHARGE	I. COLLETTI
APPROVED BY	LB
CHECKED BY	LB
DESIGNED BY	BA
DRAWN BY	BA

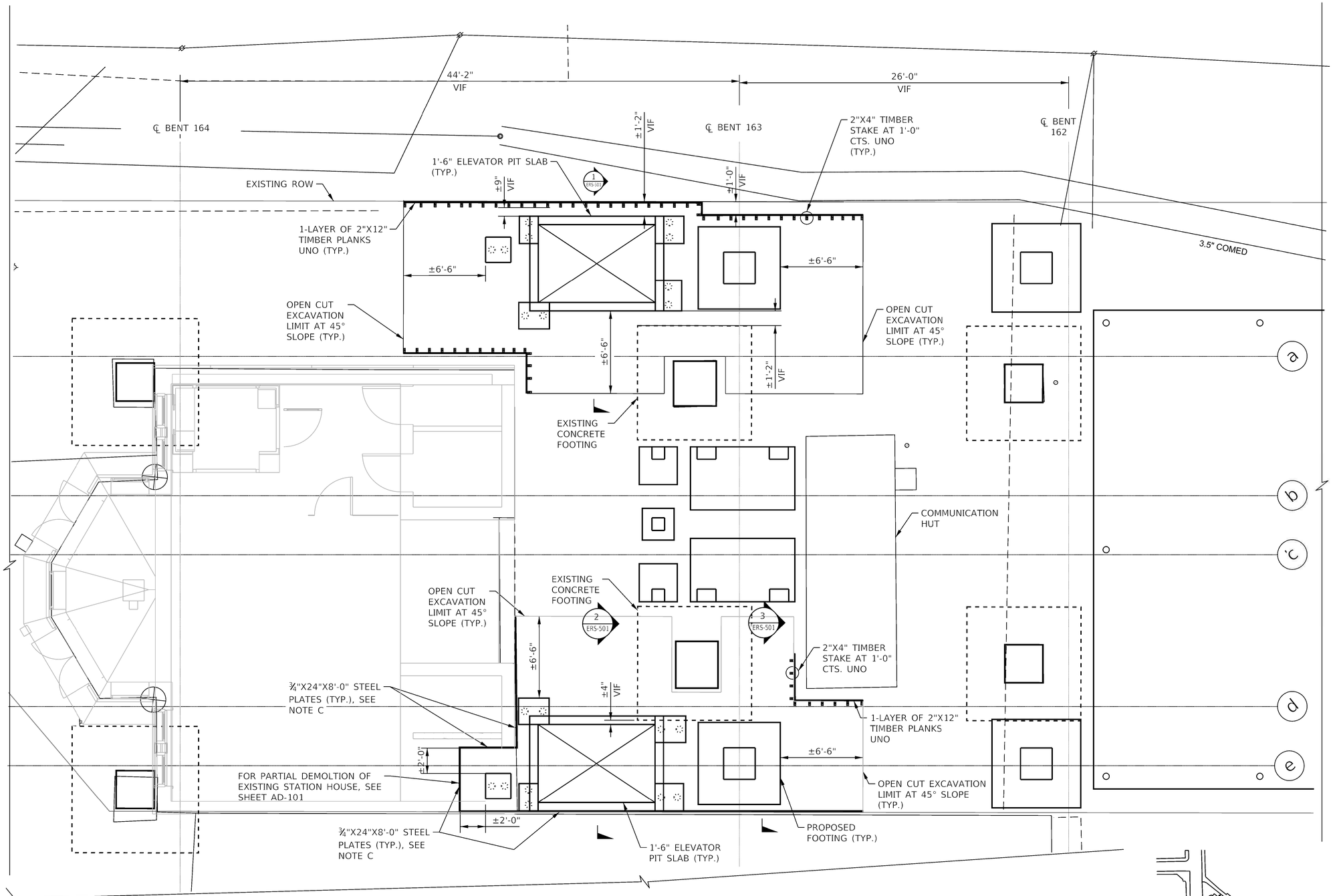
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MACHINE ROOM PLAN - ELEVATORS 1-2

LSCAL | Q-005

VOLUME: X OF X

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NOTE:

A) REFER TO GEO SERVICES TECHNICAL MEMO DATED 02/13/2023 FOR ADDITIONAL INFORMATION.

B) REFER TO NOTES ON SHEET ERS-502 FOR ADDITIONAL INFORMATION.

C) STEEL PLATE WIDTH COULD BE ADJUSTED TO A SMALLER WIDTH AND PLATE LENGTH COULD BE TWO 4'-0" LONG PLATES FIELD WELDED TOGETHER FOR TOTAL LENGTH OF 8'-0" TO FACILITATE CONSTRUCTION.

1 ERS-500 ERS PLAN - ELEVATOR #1 OUTBOUND AND ELEVATOR #2 INBOUND

SCALE: 1/4"=1'-0"

NORTH

0 1' 2' 4'

SCALE: 1/2"=1'-0"

NORTH

PLOTTED ON: 5/16/2024 8:25:20 AM 070_LSCAL_ERS-500.dgn

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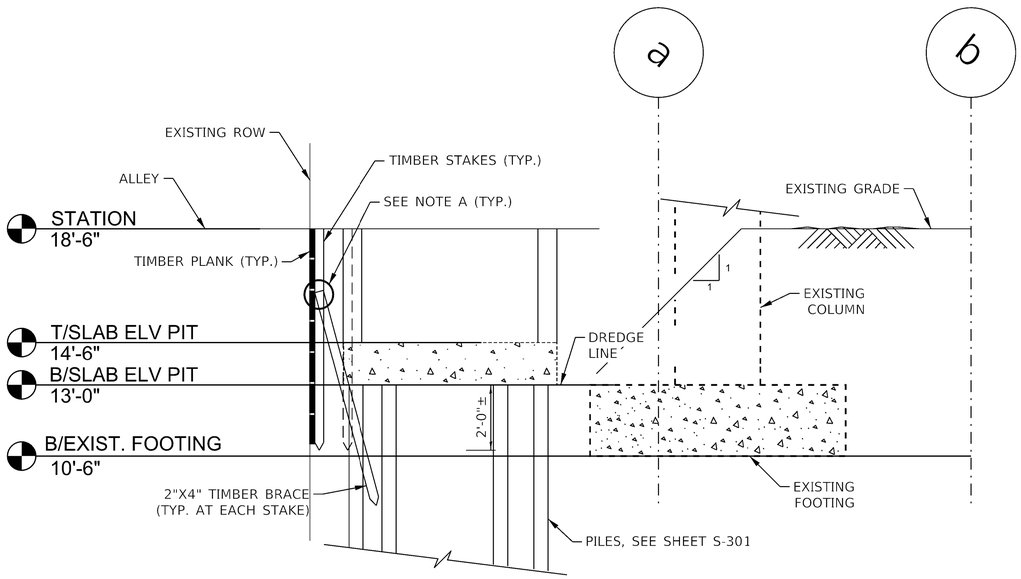
PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	R. SUTPHEN
CHECKED BY	R. SUTPHEN
DESIGNED BY	R. AL-MASRI
DRAWN BY	R. AL-MASRI

MARK	DATE	DESCRIPTION
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ELEVATOR PIT ERS PLAN

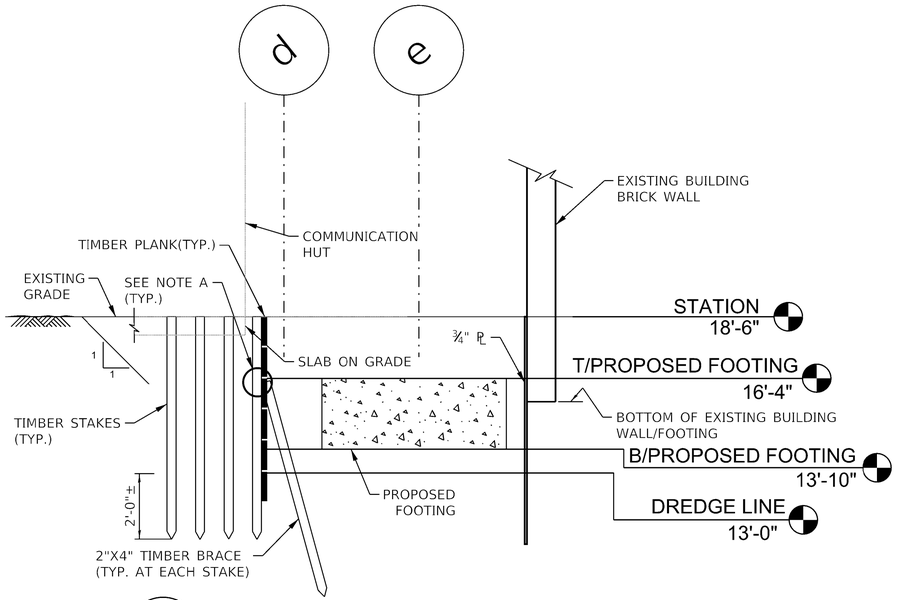
LSCAL | ERS-500

VOLUME: X OF X



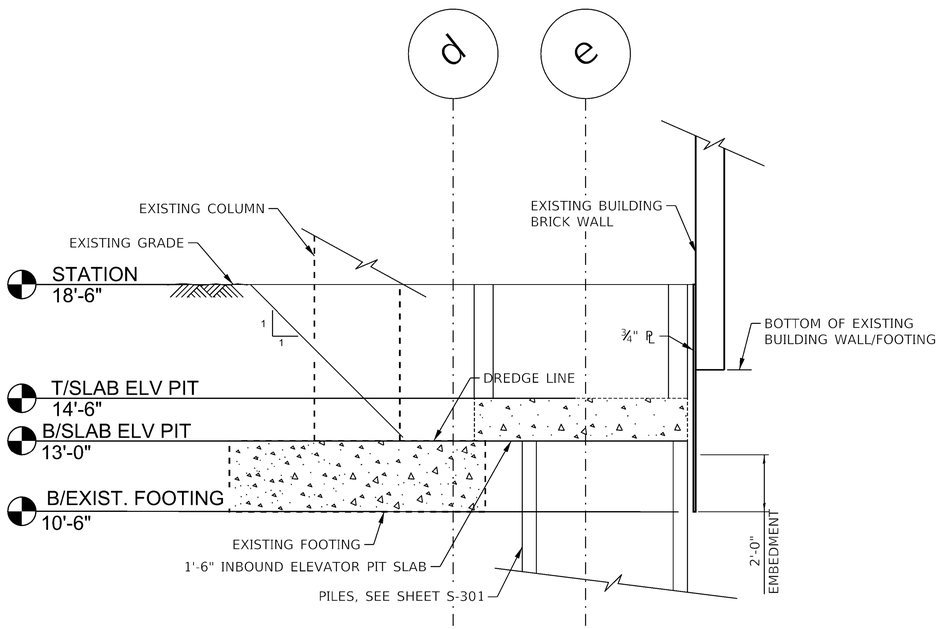
1 ERS-501 ELEVATION VIEW - ELEVATOR #1 OUTBOUND

SCALE: 3/8"=1'-0"



3 ERS-501 ELEVATION VIEW - ELEVATOR #2 INBOUND

SCALE: 3/8"=1'-0"



2 ERS-501 ELEVATION VIEW - ELEVATOR #2 INBOUND

SCALE: 3/8"=1'-0"

NOTE:

A) INSTALL 4-EACH, 16 PENNY NAILS, TYP.

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CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	R. SUTPHEN
CHECKED BY	R. SUTPHEN
DESIGNED BY	R. AL-MASRI
DRAWN BY	R. AL-MASRI

MARK	DATE	DESCRIPTION
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ERS-ELEVATION
- INBOUND & OUTBOUND
ELEVATOR

LSCAL | ERS-501

VOLUME: X OF X

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GENERAL NOTES:

1. ALL CONTRACTORS, SUBCONTRACTORS AND THEIR AFFILIATES WORKING ON THIS PROPERTY SHALL OBSERVE AND COMPLY WITH ALL APPLICABLE SAFETY REQUIREMENTS (OSHA). CONTRACTORS SHALL BE SOLELY RESPONSIBLE FOR ALL SAFETY REQUIREMENTS, PROCEDURE, METHODS, AND PROGRAMS.

2. ALL EXCAVATIONS SHALL BE KEPT CONTINUOUSLY DEWATERED DURING CONSTRUCTION OPERATIONS. PROVISIONS SHALL BE MADE TO PREVENT THE BOTTOM OF EXCAVATIONS FROM FREEZING OR FLOODING AT ALL TIMES.

3. CONTRACTOR SHALL SAWCUT EXISTING SLAB FULL DEPTH, FOUR SIDES, AS SHOWN IN PLAN AND SHALL REMOVE EXISTING SLAB.

4. THE CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTIES DURING THE CONSTRUCTION OR REMOVAL OPERATIONS. BUSINESS PROPERTY OWNERS SHALL BE NOTIFIED 72 HOURS IN ADVANCE OF CONSTRUCTION OPERATIONS WHICH MAY AFFECT THEIR DAILY SCHEDULES. THE CONTRACTOR SHALL COORDINATE WORK THROUGH THE RESIDENT ENGINEER TO AVOID ANY UNDUE INCONVENIENCE TO LOCAL BUSINESSES.

5. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UTILITIES WHICH MAY INTERFERE WITH CONSTRUCTION OPERATIONS, AND SHALL REPORT TO THE COMMISSIONER ANY/ALL OMISSIONS AND DIFFERENCES FROM THE LOCATIONS SHOWN ON THE PLANS. THE COST OF THIS WORK WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

6. THE CONTRACTOR SHALL NOTE AND VERIFY THE ASSUMED SURCHARGE OF 250 PSF. CONSTRUCTION ACTIVITIES SHALL NOT EXCEED THE ASSUMED SURCHARGE.

7. ALL WORK SHALL CONFORM WITH CTA ADJACENT CONSTRUCTION MANUAL (ACM).

MATERIAL SPECIFICATIONS:

1. STRUCTURAL STEEL SHALL BE FABRICATED IN ACCORDANCE WITH THE LATEST AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.

2. STEEL PLATES SHALL BE ASTM A36 OR HIGHER YIELD STRENGTH.

3. ALL WOOD PLANKS AND STAKES SHALL BE DOUGLAS FIR LARCH WITH A MINIMUM FB = 1,500 PSI.

SUGGESTED PROCEDURE FOR INSTALLATION AND REMOVAL OF EARTH RETENTION STRUCTURAL SYSTEM:

1. PRIOR TO START OF ANY EXCAVATION, CONTRACTOR SHALL ENSURE THAT EXISTING ALL EXISTING UTILITIES HAVE BEEN TEMPORARILY SUPPORTED BY UTILITY TO MINIMIZE VERTICAL AND LATERAL MOVEMENT OF THE UTILITIES.

2. PRE- EXCAVATE EARTH RETENTION AREA TO AN ELEVATION OF 2.0-FEET BELOW EXISTING GRADE.

3. INSTALL TIMBER STAKES 2.0-FEET BELOW BOTTOM OF FINAL EXCAVTION.

4. CONTRACTOR SHALL AVOID EXISITNG FOUNDATIONS.

5. CONTRACTOR SHALL EXERCISE CAUTION TO PROTECT AND MONITOR THE EXISTING SEWER AND SURROUNDING UTILITIES DURING THE INSTALLATION OF TRENCH BOX AND REMAINDER OF THE CONSTRUCTION.

6. AFTER INSTALLING TIMBER STAKES, EXCAVATE THE EARTH RETENTION TO 2.0-FEET BELOW EXISITNG GRADE WHILE INSTALLING TIMBER PLANKS SIMULTANEOULY. INSTALL STEEL PLATE IN SIMILAR MANNER.

7. CONTINUE TO EXCAVATE UNTIL REUIRED DEPTH IS REACHED. CNTRACTOR SHALL NOT DAMAGE EXISTING UTILTIES.

8. AFTER WORK IS COMPLETED WITHIN THE ERS, THE TIMBER SHALL BE REMOVED BY REVERSING THE METHOD OF INSTALLATION, PULLING TIMBER, BACKFILL, AND COMPACTING SOIL IN 2.0-FOOT MAXIMUM INCREMENTS. EXISTING SURFACES SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION. STEEL PLATE SHALL BE CUT OFF BELOW NEW CONCRETE SLAB AND REMINIANING PORTION OF PLATE ABANDONED IN PLACE.

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CHICAGO TRANSIT AUTHORITY
ENGINEERING

SENSITIVE SECURITY INFORMATION

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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	R. SUTPHEN
CHECKED BY	R. SUTPHEN
DESIGNED BY	R. AL-MASRI
DRAWN BY	R. AL-MASRI

MARK	DATE	DESCRIPTION
0	12/30/24	ISSUE FOR BID

ERS NOTES

LSCAL | ERS-502

VOLUME: X OF X

ABBREVIATIONS

-A-	
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASSE	AMERICAN SOCIETY OF SANITARY ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS
AWWA	AMERICAN WATER WORKS ASSOCIATION
-B-	
BLDG	BUILDING
BMS	BUILDING MANAGEMENT SYSTEM
BP	BOOSTER PUMP
-C-	
CB	CATCH BASIN
CLG	CEILING
CO	CLEANOUT
CW	COLD WATER
-D-	
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DN	DOWN
DS	DOWNSPOUT
DWG	DRAWING
-E-	
(E)	EXISTING
ET	EXPANSION TANK
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
-F-	
F	FAHRENHEIT,
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FT	FOOT, FEET
FPRH	FROST-PROOF ROOF HYDRANT
FPWH	FROST-PROOF WALL HYDRANT
-G-	
GAL	GALLON
GC	GENERAL CONTRACTOR
GPF	GALLONS PER FLUSH
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
-H-	
HD	HUB DRAIN
HW	HOT WATER
-I-	
IE	INVERT ELEVATION
IN	INCH
-J-	
-K-	
KW	KILOWATT
-L-	
LAV	LAVATORY
LBS	POUND(S)
-M-	
MAX	MAXIMUM
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM, MINUTE
MSB	MOP SERVICE BASIN
MV	MIXING VALVE
-N-	
N	NEW
NC	NORMALLY CLOSED
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION

NIC	NOT IN CONTRACT
NO	NORMALLY OPEN, NUMBER
NP	NON-POTABLE WATER
NTS	NOT TO SCALE
-O-	
OD	OUTSIDE DIAMETER
ORD	OVERFLOW ROOF DRAIN
OSD	OPEN SITE DRAIN
OS&Y	OPEN STEM AND YOKE
OSHA	OCCUPATIONAL SAFETY AND HEALTH ACT
-P-	
PIV	POST INDICATOR VALVE
PLBG	PLUMBING
PSI	POUNDS PER SQUARE INCH
-R-	
RD	ROOF DRAIN
REC	RECESSED
REFR	REFRIGERATION
REM	REMOVABLE
REQD	REQUIRED
REV	REVISED, REVISION
RPM	REVOLUTIONS PER MINUTE
-S-	
SAN	SANITARY
SCP	SCUPPER
SD	STORM DRAIN
SE	SEWAGE EJECTOR
SED	SEWAGE EJECTOR DISCHARGE
S	SINK
SP	SUMP PUMP
SQ FT	SQUARE FEET
SS	STAINLESS STEEL
STD	STANDARD
-T-	
T&P VALVE	TEMPERATURE AND PRESSURE VALVE
TD	TRENCH DRAIN
TEMP	TEMPERATURE
TP	TRAP PRIMER
TYP	TYPICAL
-U-	
UGND	UNDERGROUND
UL	UNDERWRITERS LABORATORY
UR	URINAL
-V-	
V	VENT, VOLT
VB	VACUUM BREAKER
VIF	VERIFY IN FIELD
VOL	VOLUME
VTR	VENT THROUGH ROOF
-W-	
W	WIDTH, WASTE, WIRE, WATT
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WCO	WALL CLEANOUT
WHA-A	WATER HAMMER ARRESTOR (LETTER INDICATES P.D.I. SIZE)
WM	WATER METER
WT	WEIGHT
WTR	WATER
WWP	WORKING WATER PRESSURE
-Z-	

SYMBOLS LEGEND

ANNOTATION	
1 VIEW TITLE SCALE: NTS	PLAN TITLE NO. - 1
1 TITLE P-X01 SCALE: NTS	TITLE MARK DETAIL OR PLAN NO. - 1 FOUND IN P-X01
1 P-X01	DETAIL REFERENCE DETAIL NO. - 1 FOUND IN P-X01
1 P-X01	SECTION MARK SECTION NO. - 1 FOUND IN P-X01
1	SHEET KEYNOTE
1	REVISION CLOUD (DELTA 1)
	CONNECTION
PLUMBING LINES	
	EXISTING SAN PIPING (SEE ABBREVIATION FOR PIPE I.D.)
	NEW SAN PIPING (SEE ABBREVIATION FOR PIPE I.D.)
	COLD WATER
	HOT WATER
	HOT WATER RETURN
—V—	VENT
VALVES	
	BALL VALVE
	CHECK VALVE
FITTINGS	
	CLEANOUT
	ELBOW DOWN
	ELBOW UP
	END CAP
	P-TRAP
	UNION
DRAINS	
	AREA DRAIN
	DOWNSPOUT
	FLOOR DRAIN
	FLOOR SINK
	FLOOR SINK W/ HALF GRATE
	HUB DRAIN
	OPEN SITE DRAIN
	ROOF DRAIN
	ROOF DRAIN OVERFLOW

NOTE:

ABBREVIATIONS AND SYMBOLS SHOWN ON THIS SHEET APPEAR FOR REFERENCE AND ONLY WILL BE APPLICABLE WHEN USED WITHIN THE CONTRACT DOCUMENTS.

GENERAL NOTES

1. INSTALL ALL PLUMBING MATERIALS AND EQUIPMENT IN ACCORDANCE WITH CHICAGO BUILDING CODE, CHICAGO PLUMBING CODE AND ALL OTHER AUTHORITIES HAVING JURISIDICTION.
2. THE WORK UNDER THESE SPECIFICATIONS SHALL INCLUDE ALL LABOR, SERVICES, MATERIALS AND EQUIPMENT, AND PERFORMANCE OF ALL WORK REQUIRED FOR THE INSTALLATION OF ALL PLUMBING WORK AS SHOWN ON THE DRAWINGS AND HEREIN SPECIFIED.
3. THE CONTRACT DOCUMENTS INDICATE APPROXIMATE LOCATION OF EXISTING PIPING AND SYSTEM COMPONENTS AND ARE DIAGRAMMATIC IN NATURE.
4. SHOULD THERE BE ANY DISCREPANCIES OR A QUESTION OF INTENT, REFER THE MATTER TO THE ARCHITECT FOR A DECISION BEFORE ORDERING ANY EQUIPMENT OR MATERIALS OR BEFORE STARTING ANY RELATED WORK.
5. SUBMIT SKETCHES INDICATING ANY DEVIATIONS FROM THE DRAWINGS TO THE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.
6. WHERE WORK CONNECTS TO THAT OF ANOTHER TRADE, OR TO PIPING OR EQUIPMENT IN PLACE, TAKE MEASUREMENTS IN THE FIELD TO MAKE CONNECTING WORK COME TRUE AND LINE UP WITH THE ITEM BEING CONNECTED.
7. REFER TO ARCHITECTURAL, ELECTRICAL, MECHANICAL, AND SPRINKLER DRAWINGS FOR ADDITIONAL DETAILS AND COORDINATION REQUIREMENTS.
8. IN GENERAL, ALL PIPING, AND SIMILAR ITEMS SHALL BE INSTALLED CONCEALED FROM VIEW ABOVE THE CEILING, IN PARTITIONS, SHAFTS, OR CHASES, UNLESS OTHERWISE INDICATED.
9. WHERE PIPES ARE LOCATED INSIDE PARTITIONS, OR FURRED OUT SPACES AND CHASES, OBTAIN INFORMATION AS TO THEIR EXACT LOCATION AND SIZE AND INSTALL WORK SO AS TO BE ENTIRELY CONCEALED IN THE ALLOTTED SPACE. IF CONFLICTS ARISE MAKING THIS IMPOSSIBLE, OBTAIN INSTRUCTIONS FROM THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
10. PROVIDE ALL HOLES, SLEEVES, CUTTING, PATCHING AND CAULKING FOR INSTALLATION OF THIS WORK. CAULKING SHALL CONFORM TO THE FIRE RATING OF THE WALLS. PROPERLY SEAL ALL PENETRATIONS THROUGH BLOCK WALLS.
11. RUN NEW WASTE PIPING AS CLOSE AS POSSIBLE TO UNDERSIDE OF FLOOR SLAB AND VENT PIPING AS CLOSE AS POSSIBLE TO SLAB ABOVE.
12. PLUMBING CONTRACTOR SHALL COORDINATE THE CONNECTION TO THE GUTTER DRAINS WITH THE GC.

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CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	JV
CHECKED BY	JV
DESIGNED BY	MP
DRAWN BY	MP

MARK	DATE	DESCRIPTION
0	12/30/24	ISSUE FOR BID

PLUMBING SYMBOLS LIST AND ABBREVIATIONS

LSCAL | P-001

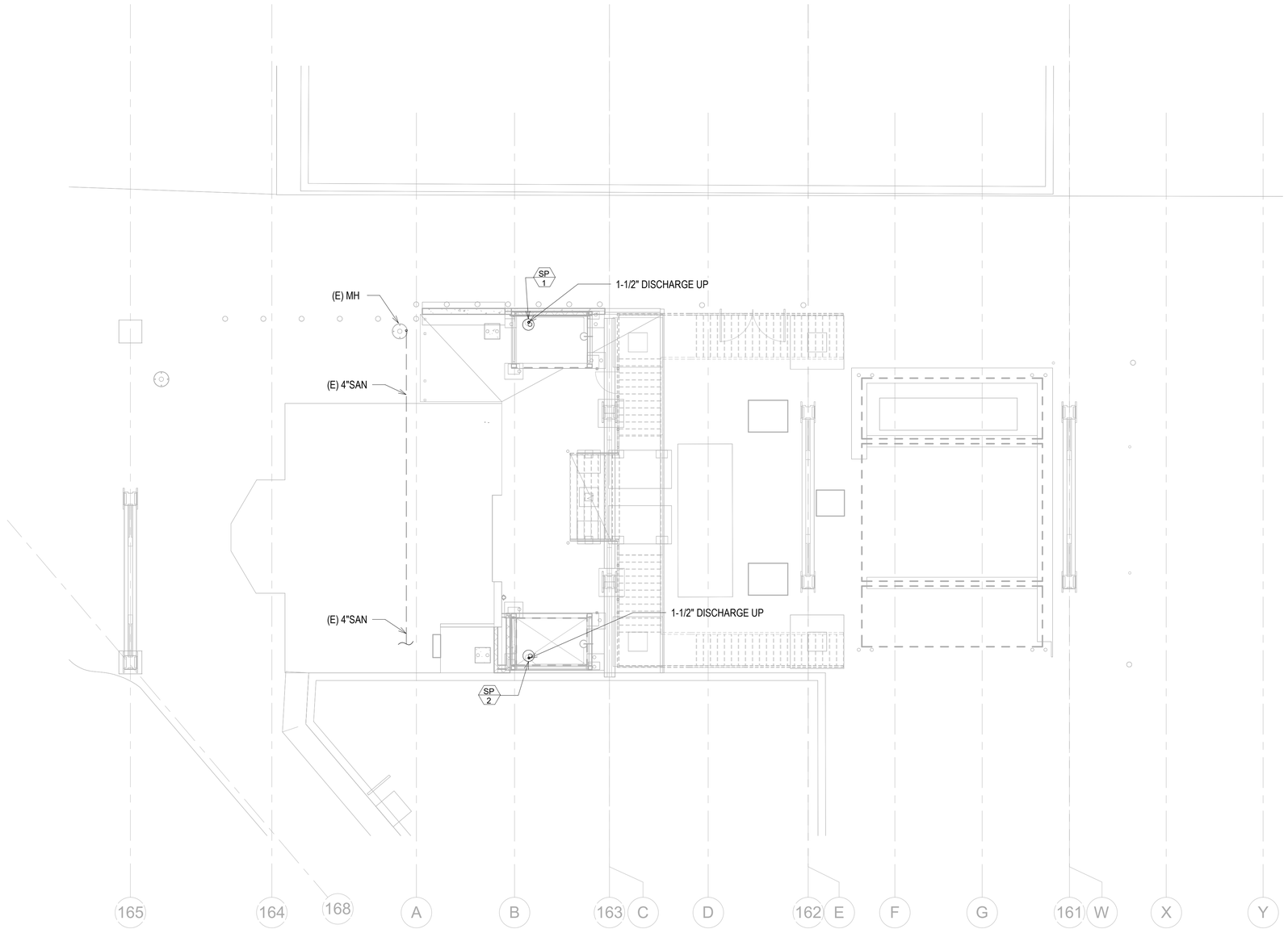
VOLUME: 1 OF 1

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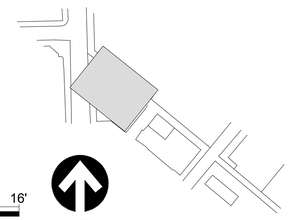
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1 P-101 STATION UNDERGROUND PLAN
SCALE: 1/8" = 1'-0"

0 4' 8' 16'
SCALE: 1/8"=1'-0"



GENERAL PLAN NOTES

1. SEE SHEET P-001 FOR PLUMBING SYMBOL LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. SEE SHEET P-602 FOR PIPING DIAGRAM AND SIZING .
3. SEE SHEET P-501 FOR PLUMBING EQUIPMENT DETAILS.
4. SEE SHEET P-501 FOR PIPING CONNECTION (CATHODIC PROTECTION). CATHOLICALLY-PROTECT ALL UNDERGROUND METALLIC PIPING AS PER THE SPECIFICATIONS.
4. SEE SHEET P-601 FOR PLUMBING EQUIPMENT SCHEDULES.

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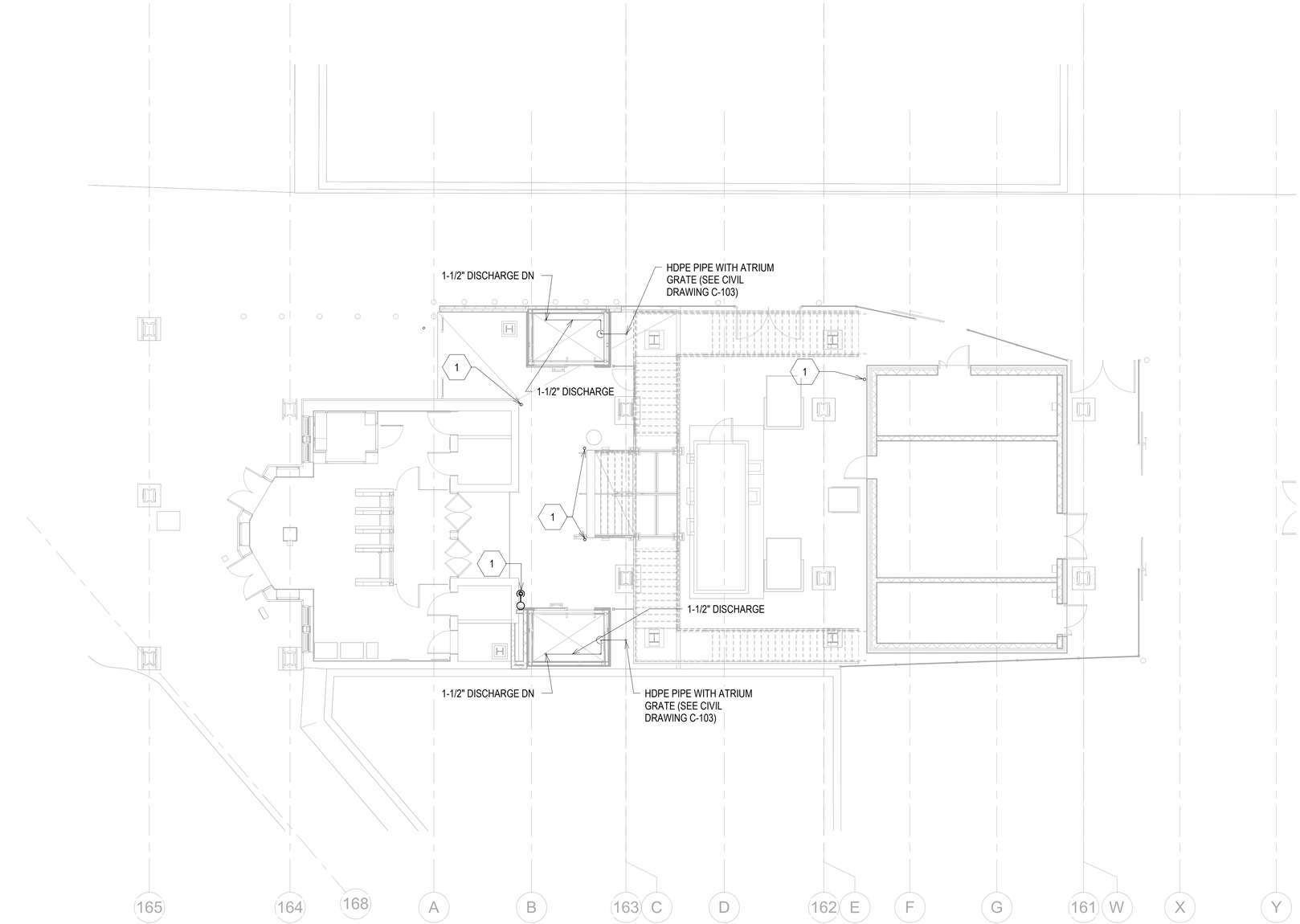
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STATION UNDERGROUND PLAN

LSCAL | P-101

VOLUME: 1 OF 1



1 P-102 STATION PLUMBING PLAN
SCALE: 1/8" = 1'-0"

0 4' 8' 16'
SCALE: 1/8"=1'-0"

NORTH

GENERAL PLAN NOTES

1. SEE SHEET P-001 FOR PLUMBING SYMBOL LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. SEE SHEET P-602 FOR PIPING DIAGRAM AND SIZING .
3. SEE SHEET P-501 FOR PLUMBING EQUIPMENT DETAILS.
4. SEE SHEET P-601 FOR PLUMBING EQUIPMENT SCHEDULES.

KEY PLAN NOTES

1. PLUMBING CONTRACTOR SHALL COORDINATE THE CONNECTION TO THE STORM DRAINS WITH THE GC. SEE DETAILS 5 & 6 ON P-501.

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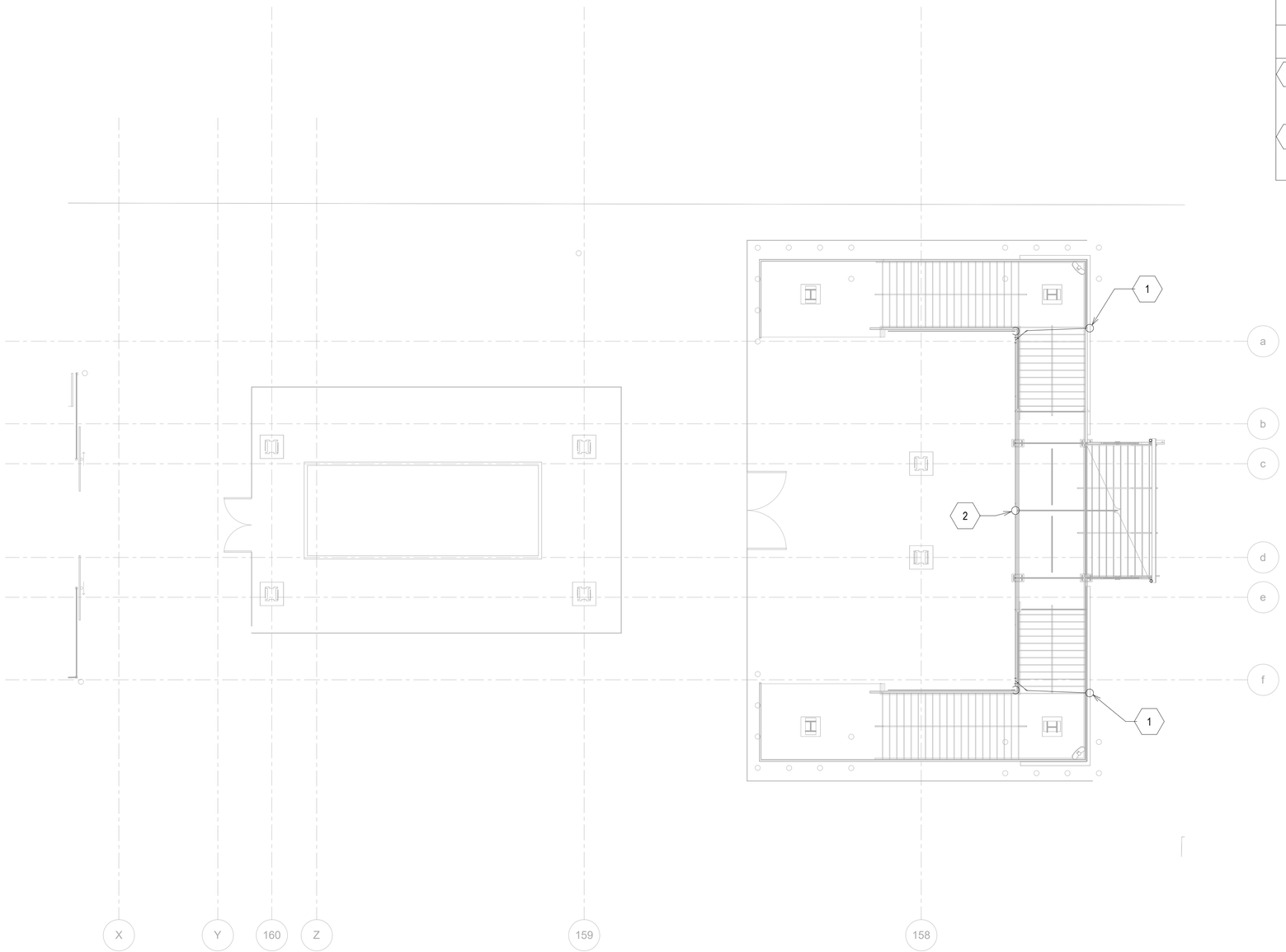
STATION PLUMBING PLAN

LSCAL P-102
VOLUME: 1 OF 1

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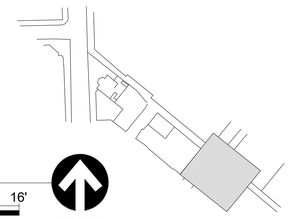
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1 P-103 STATION PLUMBING PLAN - ST. GEORGES COURT
SCALE: 1/8" = 1'-0"

0 4' 8' 16'
SCALE: 1/8"=1'-0"



GENERAL PLAN NOTES

1. SEE SHEET P-001 FOR PLUMBING SYMBOL LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. SEE SHEET P-602 FOR PIPING DIAGRAM AND SIZING .
3. SEE SHEET P-501 FOR PLUMBING EQUIPMENT DETAILS.
4. SEE SHEET P-601 FOR PLUMBING EQUIPMENT SCHEDULES.

KEY PLAN NOTES

1. PLUMBING CONTRACTOR SHALL COORDINATE THE CONNECTION TO THE STORM DRAINS WITH THE GC. SEE DETAILS 5 & 6 ON P-501.
2. FOR CIVIL CONNECTION SEE DETAIL 5 ON P-501.

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CHICAGO, ILLINOIS 60647

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DRAWN BY	MP

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STATION PLUMBING PLAN - ST. GEORGES COURT

LSCAL P-103
VOLUME: 1 OF 1

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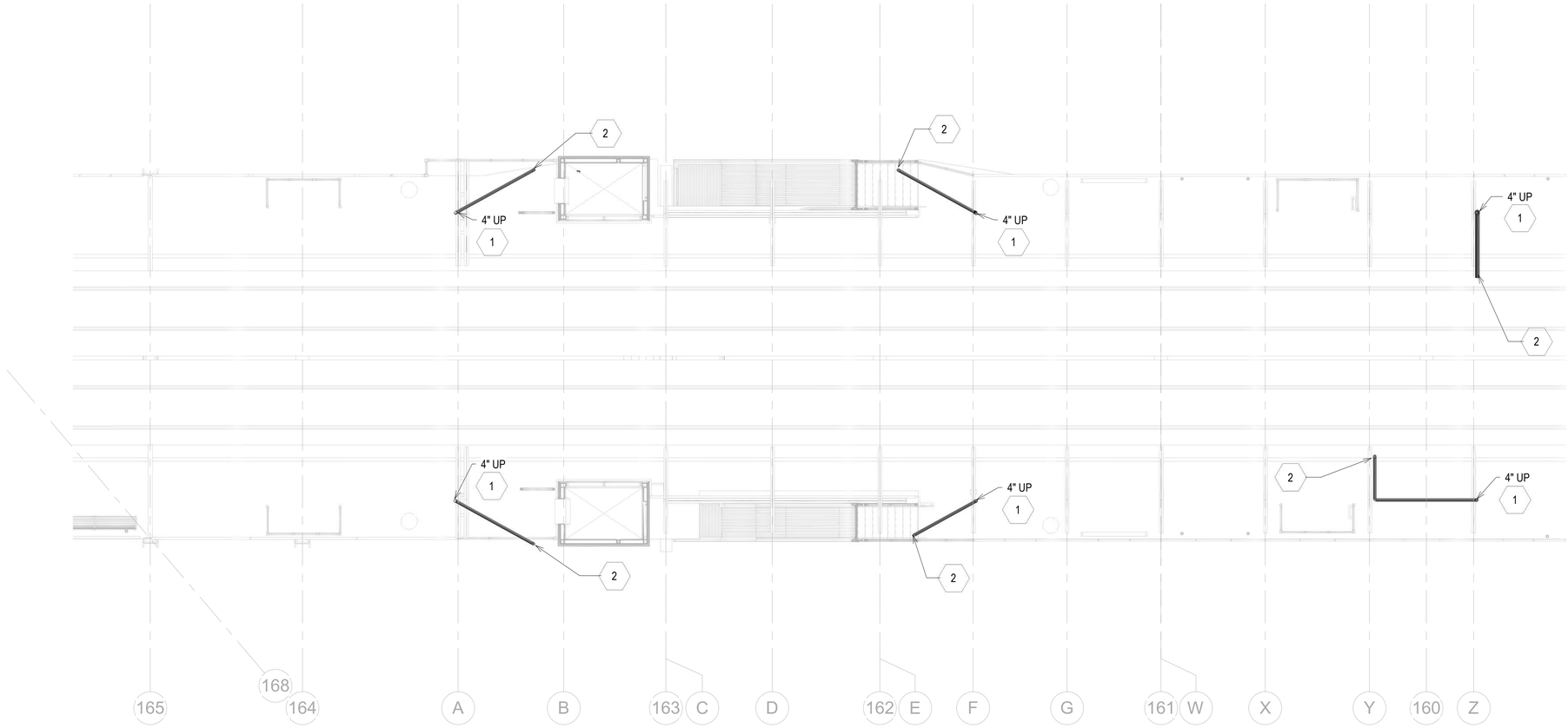
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GENERAL PLAN NOTES

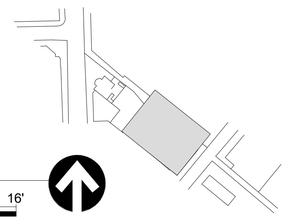
1. SEE SHEET P-001 FOR PLUMBING SYMBOL LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. SEE SHEET P-501 FOR PLUMBING EQUIPMENT DETAILS.

KEY PLAN NOTES

1. PLUMBING CONTRACTOR SHALL COORDINATE THE CONNECTION TO THE STORM DRAINS WITH THE GC. SEE DETAILS 5 & 6 ON P-501.
2. FOR CIVIL CONNECTION SEE DETAIL 5 ON P-501.



1 P-201 PLATFORM UNDERGROUND PLAN
SCALE: 1/8" = 1'-0"



0 4' 8' 16'
SCALE: 1/8"=1'-0"

NORTH

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PLATFORM UNDERGROUND PLAN

LSCAL P-201

VOLUME: 1 OF 1

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GENERAL PLAN NOTES

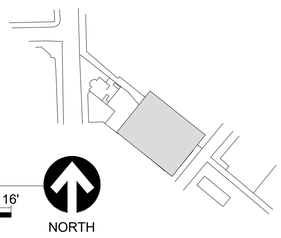
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KEY PLAN NOTES

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1 P-202 PLATFORM PLUMBING PLAN
SCALE: 1/8" = 1'-0"



0 4' 8' 16'
SCALE: 1/8"=1'-0"

NORTH

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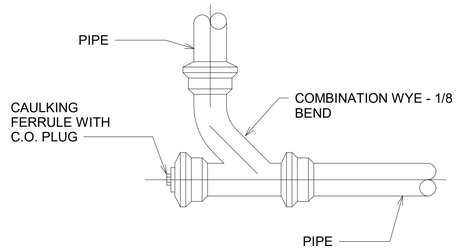
PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	JV
CHECKED BY	JV
DESIGNED BY	MP
DRAWN BY	MP

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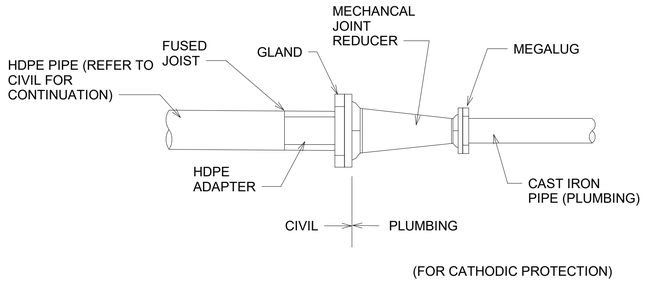
PLATFORM PLUMBING PLAN

LSCAL P-202

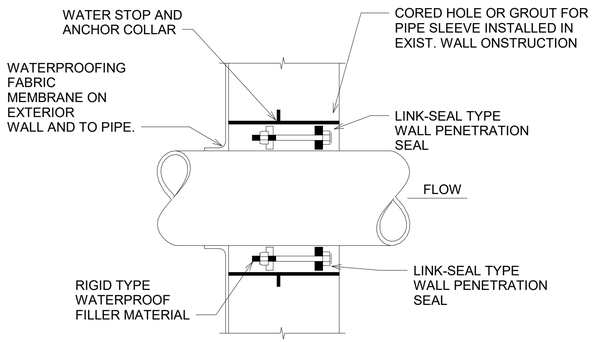
VOLUME: 1 OF 1



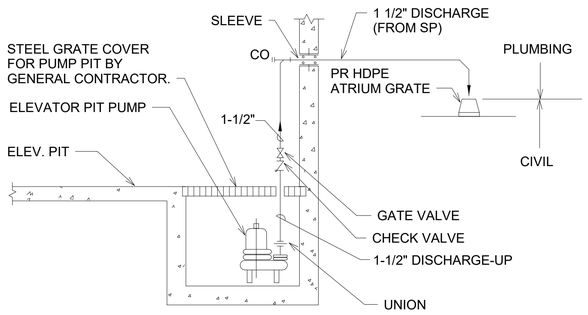
1 P-501 DETAIL_TYPICAL EXPOSED CLEANOUT DETAIL
SCALE:N.T.S.



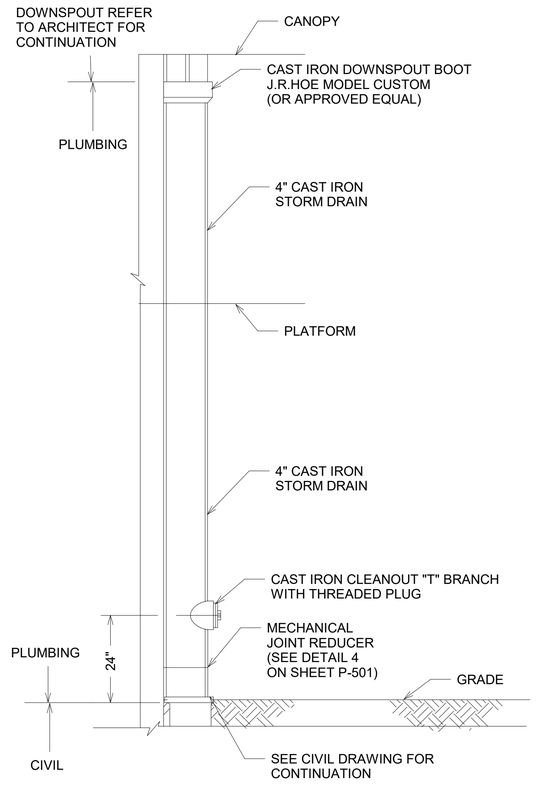
4 P-501 DETAIL_CONNECTION HDPE TO PLUMBING PIPING DETAIL
SCALE:N.T.S.



2 P-501 DETAIL_TYPICAL LINK-SEAL PIPE THRU WALL PENETRATION DETAIL
SCALE:N.T.S.



3 P-501 DETAIL_ELEVATOR SUMP PUMP DETAIL
SCALE: 12" = 1'-0"



5 P-501 DETAIL_TYPICAL DOWNSPOUT BOOT AND STORM PIPIE
SCALE: 12" = 1'-0"

GENERAL PLAN NOTES

1. SEE SHEET P-001 FOR PLUMBING SYMBOL LEGEND, ABBREVIATIONS AND GENERAL NOTES.

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PLUMBING DETAILS

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VOLUME: 1 OF 1

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SUMP PUMP SCHEDULE

TAG	DESCRIPTION	LOCATION	GPM	STAGE	MAX. HEAD (FT)	CORD LENGTH	ELECTRICAL						PRIMARY BASIN		DISCHARGE	MANUFACTURER & MODEL NO.	WEIGHT LBS	NOTES
							RPM	MOTOR H.P.	LOCKED ROTOR AMPS	VOLT	PHASE	HZ.	DIAMETER	DEPTH				
SP-1	SUMP PUMP	ELEVATOR PIT	40	1	108	10'	3450	2	53	208	1	60	18.26"	31.5"	1-1/2"	LIBERTY PUMPS # LSG202-RE	117	1,2,3,4,5,6,7
SP-2	SUMP PUMP	ELEVATOR PIT	40	1	108	10'	3450	2	53	208	1	60	18.26"	31.5"	1-1/2"	LIBERTY PUMPS # LSG202-RE	117	1,2,3,4,5,6,7

NOTE:

1. FULLY ASSEMBLED WITH OMNIVORE ® GRINDER.
2. NEMA 4X WATERPROOF JUNCTION BOX CONTAINS MOTOR CONTACTOR AND TERMINAL STRIP.
3. ALARM FLOAT SWITCH WORKS AS REDUNDANT "ON" FLOAT SWITCH.
4. EQUIPMENT MANUAL OVERRIDE SWITCH REMAINS OPERABLE.
5. STATOR WINDING SHALL BE CLASS B.
6. SUBMERSIBLE SUMP PUMP WITH OILTECTOR @ CONTROL # OTC-230H, 120-230V, 15-20 AMPS.
7. SEE STRUCTURAL SHEET S-500 FOR SUMP PIT DESIGN.

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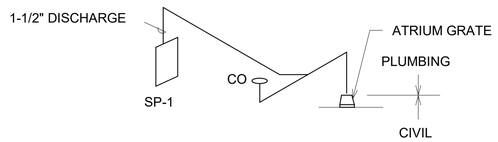
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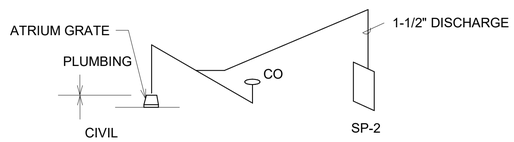
PLUMBING SCHEDULES

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1 P-602 PLUMBING WASTE RISER DIAGRAM
SCALE: N.T.S.

GENERAL PLAN NOTES

1. SEE SHEET P-001 FOR PLUMBING SYMBOL LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. SEE SHEETS P-101 AND P-102 FOR PIPING .
3. SEE SHEET P-501 FOR PLUMBING EQUIPMENT DETAILS.
4. SEE SHEET P-601 FOR PLUMBING EQUIPMENT SCHEDULES.

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PLUMBING WASTE RISER DIAGRAMS

LSCAL P-602

VOLUME: 1 OF 1

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SYMBOLS LEGEND:

ANNOTATION	
1 VIEW TITLE SCALE: NTS	PLAN TITLE NO. - 1
1 TITLE M-XXX SCALE: NTS	TITLE MARK DETAIL OR PLAN NO. - 1 FOUND IN M-XXX
1 M-XXX	DETAIL REFERENCE DETAIL NO. - 1 FOUND IN M-XXX
1 M-XXX	SECTION MARK SECTION NO. - 1 FOUND IN M-XXX
2 M-XXX	DETAIL BOUNDARY B DETAIL NO. - 2
1	SHEET KEYNOTE
1	REVISION CLOUD (DELTA 1)
X 1	EQUIPMENT TAG DESIGNATION NUMBER 1
L 1.0 FA	LOUVER IN DOOR MINIMUM 1.0 SQ FT, FREE AREA
	POINT OF CONNECTION
DIFFUSERS	
S-100-A	CEILING SUPPLY DIFFUSER, TYPE A, THROW PATTERN 4-WAY, 100 CFM
R-100-B	CEILING RETURN REGISTER (GRILLE), TYPE B, 100 CFM
E-100-C	CEILING EXHAUST, TYPE C, 100 CFM
	LINEAR SLOT DIFFUSER
12X6 WR 150	12"X6" SIDEWALL SUPPLY REGISTER, 150 CFM
12X6 WG 150	12"X6" SIDEWALL RETURN / EXHAUST REGISTER, 150 CFM
VAV BOXES	
	SINGLE DUCT VAV BOX
	SINGLE DUCT VAV WITH REHEAT

DUCT	
	DUCTWORK (NEW)
	DUCTWORK WITH ACOUSTIC LINING
	DUCT UNDER POSITIVE PRESSURE
	DUCT UNDER NEGATIVE PRESSURE
UP	RISE IN DUCT (IN DIRECTION OF AIR FLOW)
DN	DROP IN DUCT (IN DIRECTION OF AIR FLOW)
	REHEAT COIL
	FLEX DUCT
	DUCT TRANSITION
	VANED ELBOW
	RADIUS ELBOW
	DUCT FITTING (SEE DETAILS)
	FLEXIBLE DUCT CONNECTION
	TRANSFER AIR BOOT (STRAIGHT) SEE SCHEDULE REQUIREMENTS
	TRANSFER AIR ELBOW WITH ACOUSTIC LINING
SA	SOUND ATTENUATOR
	ACCESS PANEL

DAMPERS AND CONTROLS	
	COMBINATION SMOKE/FIRE DAMPER AND ACCESS DOOR
	SMOKE DAMPER AND ACCESS DOOR
	MOTORIZED DAMPER
	VOLUME DAMPER
T	THERMOSTAT
PIPING	
	NEW PIPING (SEE ABBREVIATION FOR PIPE I.D.)
VALVES	
	BALL VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	PRESSURE REDUCING VALVE
	PRESSURE RELIEF VALVE
	VALVED AND CAPPED OUTLET
FITTINGS	
	ELBOW DOWN
	ELBOW DOWN TO TEE
	ELBOW UP
	END CAP
	TEE DOWN
	TEE UP
	UNION

GENERAL NOTES:

1. WHERE THERE IS A DISCREPANCY BETWEEN THE DRAWINGS AND SPECIFICATIONS, NOTIFY THE ENGINEER PRIOR TO BID. FOR BIDDING PURPOSES THE MORE STRINGENT SHALL APPLY.
2. EXAMINE THE COMPLETE SET OF CONTRACT DOCUMENTS FOR ALL TRADES, AND REVIEW DIMENSIONS, SPACE REQUIREMENTS AND POINT OF CONNECTIONS TO ALL EQUIPMENT. MAKE ANY MINOR ADJUSTMENTS NECESSARY TO AVOID CONFLICTS WITH THE BUILDING STRUCTURE AND THE WORK OF OTHER TRADES.
3. A MINIMUM OF 36" CLEAR WORKING SPACE, NOT LESS THAN 30" WIDE, SHALL BE MAINTAINED IN FRONT OF ALL SWITCHES, OVERCURRENT DEVICES AND ELECTRIC CONTROL COMPONENTS. THE WORKING SPACE SHALL BE CLEAR AND EXTEND FROM THE GRADE, FLOOR, OR PLATFORM TO MINIMUM OF 6'-8" FT. WHERE THE ELECTRICAL EQUIPMENT EXCEEDS 6-1/2 FT IN HEIGHT, THE MINIMUM HEADROOM SHALL NOT BE LESS THAN THE HEIGHT OF THE EQUIPMENT.
4. A MINIMUM OF 24" CLEAR WORKING SPACE SHALL BE PROVIDED IN FRONT OF THE ACCESS PANELS.
5. PROVIDE ACCESS PANELS (MATCH WALL OR CEILING RATING) IN ALL WALLS OR CEILINGS WHERE ACCESS TO DAMPERS, CONTROLS, ETC ARE REQUIRED BY CODE. COORDINATE LOCATIONS WITH ARCHITECT.
6. THERE SHALL BE NO PIPING AND/OR DUCTWORK RUN THROUGH ELECTRICAL ROOMS UNLESS THAT DUCTWORK AND/OR PIPING IS SERVING THAT ELECTRICAL SPACE.
7. LOCATE EXISTING REINFORCING STEEL UTILIZING ANY SUITABLE METAL DETECTION SYSTEM. DO NOT CUT ANY EXISTING STEEL REINFORCEMENT. SHIFT ANCHOR OR CORE TO MISS THE REBAR.
8. BOLTS MUST BE INSTALLED TO AVOID DAMAGING EXISTING STEEL REINFORCEMENT. IN CASE OF CONFLICT, ADJUST BOLT LOCATION, ALLOWING FOR 1" CONCRETE COVER BETWEEN REBAR AND BOLT.

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MECHANICAL SYMBOLS LEGEND

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ABBREVIATIONS:

- # -	
2WAY	TWO-WAY
3WAY	THREE-WAY
-A-	
A/C	AIR CONDITIONER
AD	ACCESS DOOR
ADA	AMERICAN DISABILITIES ACT
ADDL	ADDITIONAL
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AIA	AMERICAN INSTITUTE OF ARCH
AMP	AMPERE
ARCH	ARCHITECT
ASHRAE	AMERICAN SOCIETY OF HEATING REFRIGERATION & AIR CONDITIONING ENGINEERS
AUTO	AUTOMATIC
AVG	AVERAGE
-B-	
BDD	BACKDRAFT DAMPER
BFP	BACKFLOW PREVENTOR
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BLW	BELOW / UNDERGROUND
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT/ HOUR
-C-	
CAP	CAPACITY, CAPACITOR
CC	COOLING COIL
CD	CEILING DIFFUSER, CONSTRUCTION DOCUMENT
CFM	CUBIC FEET PER MINUTE
CFSD	COMBINATION FIRE/SMOKE DAMPER
CH	CHILLER
CHWP	CHILLED WATER PUMP
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CL	CENTER LINE, CLOSE, CLOSET
CLG	CEILING
CNDS	CONDENSATE DRAIN
CO2	CARBON DIOXIDE
COND	CONDENSER
CONN	CONNECT, CONNECTION
CP	CONTROL PANEL, CHROME PLATED
CV	CONSTANT VOLUME
CWP	CONDENSER WATER PUMP
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY

-D-	
(D)	EXISTING TO BE DEMOLISHED
DB	DRY BULB
dB	DECIBEL
DBA	UNIT OF SOUND LEVEL
DBT	DRY BULB TEMPERATURE
DDC	DIRECT DIGITAL CONTROL
DEG	DEGREE
DIA	DIAMETER
DMPR	DAMPER
DN	DOWN
DPT	DEW POINT TEMPERATURE
DR	DRAIN
DWG	DRAWING
DS	DUCT SPLIT SYSTEM
DCU	DUCT SPLIT CONDENSATE UNIT
-E-	
(E)/EX-1	EXISTING TO REMAIN
(ER)	EXISTING TO BE RELOCATED
EX-2	EXISTING TO BE REMOVE AND REINSTALL
EA	EXHAUST AIR
EAR	EXHAUST AIR REGISTER
EAT	ENTERING AIR TEMPERATURE
EDBT	ENTERING DRY BULB TEMP
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EL	ELEVATION / ELEVATOR LOBBY
ELEC	ELECTRIC / ELECTRICAL
EQ	EQUAL
ESP	EXTERNAL STATIC PRESSURE
EUH	ELECTRIC UNIT HEATER
EWBT	ENTERING WET BULB TEMP
EWT	ENTERING WATER TEMP
EXH	EXHAUST
EWH	ELECTRIC WALL HEATER
-F-	
F	FAHRENHEIT, FIRE SERVICE, FEMALE
FA	FACE, FREE AREA, FIRE ALARM
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FIN FLR	FINISH FLOOR
FLA	FULL LOAD AMPERES
FLEX	FLEXIBLE
FLTR	FILTER
FPM	FEET PER MINUTE
FT	FOOT, FEET
-G-	
GAL	GALLON
GALV	GALVANIZED
GPM	GALLONS PER MINUTE

GRL	GRILLE
-H-	
HD	HEAD
HORIZ	HORIZONTAL
HP	HORSEPOWER
HVAC	HEATING, VENTILATION, & AIR CONDITIONING
HWP	HOT WATER PUMP
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HZ	HERTZ
-I-	
ID	INSIDE DIMENSION
IN	INCH
INSUL	INSULATION
-K-	
KW	KILOWATT
-L-	
(L)	LINED
LAT	LEAVING AIR TEMPERATURE
LBS	POUND(S)
LH	LATENT HEAT
LTH	LENGTH
LVR	LOUVER
LWT	LEAVING WATER TEMPERATURE
-M-	
MAT	MIXED AIR TEMPERATURE
MAX	MAXIMUM
MBH	ONE THOUSAND BTU/HR
MECH	MECHANICAL
MED	MEDIUM
MFR	MANUFACTURER
MHP	MOTOR HORSEPOWER
MIN	MINIMUM, MINUTE
MOT	MOTOR
MS	MOTOR STARTER
MTD	MEAN TEMP DIFFERENCE
MTGHT	MOUNTING HEIGHT
MU	MAKE UP WATER LINE
-N-	
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN, NUMBER
NTS	NOT TO SCALE
-O-	
OA	OUTSIDE AIR
OD	OUTSIDE DIAMETER
-P-	
PD	PRESSURE DROP/DIFFERENCE

PERF	PERFORATED
PH	PHASE
PLBG	PLUMBING
POS	POSITIVE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
-R-	
(R)	REMOVE EXISTING
R	RISE
RA	RETURN AIR
RAG	RETURN AIR GRILLE
REC	RECESSED
REFR	REFRIGERATION
REG	REGISTER
REM	REMOVABLE
REQD	REQUIRED
RFGT	REFRIGERANT
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RLA	RUNNING LOAD AMPERES
RLL	REFRIGERANT LIQUID LINE
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RSL	REFRIGERANT SUCTION LINE
-S-	
SA	SUPPLY AIR, SHOCK ABSORBER
SAR	SUPPLY AIR REGISTER
SD	SMOKE DAMPER/DETECTOR, STORM DRAIN
SEER	SEASONAL ENERGY EFFICIENCY
SF	SUPPLY FAN
SF	SQUARE FOOT (FEET)
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SS	STAINLESS STEEL
STRUC	STRUCTURAL
-T-	
T	THROAT
TA	TRANSFER AIR
TDH	TOTAL DYNAMIC HEAD
TEMP	TEMPERATURE
TSTAT	THERMOSTAT
TYP	TYPICAL
-U-	
UH	UNIT HEATER
-V-	
V	VOLT, VENT, VIDEO
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE

-W-	
W	WIDTH, WIRE, WATT, WASTE,
W/	WITH
W/O	WITHOUT
WB	WET BULB
WMS	WIRE MESH SCREEN
WP	WEATHERPROOF, WORKING PRESSURE

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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	JV
CHECKED BY	JV
DESIGNED BY	MP
DRAWN BY	MP

MARK	DATE	DESCRIPTION
0	12/30/24	ISSUE FOR BID

MECHANICAL ABBREVIATIONS

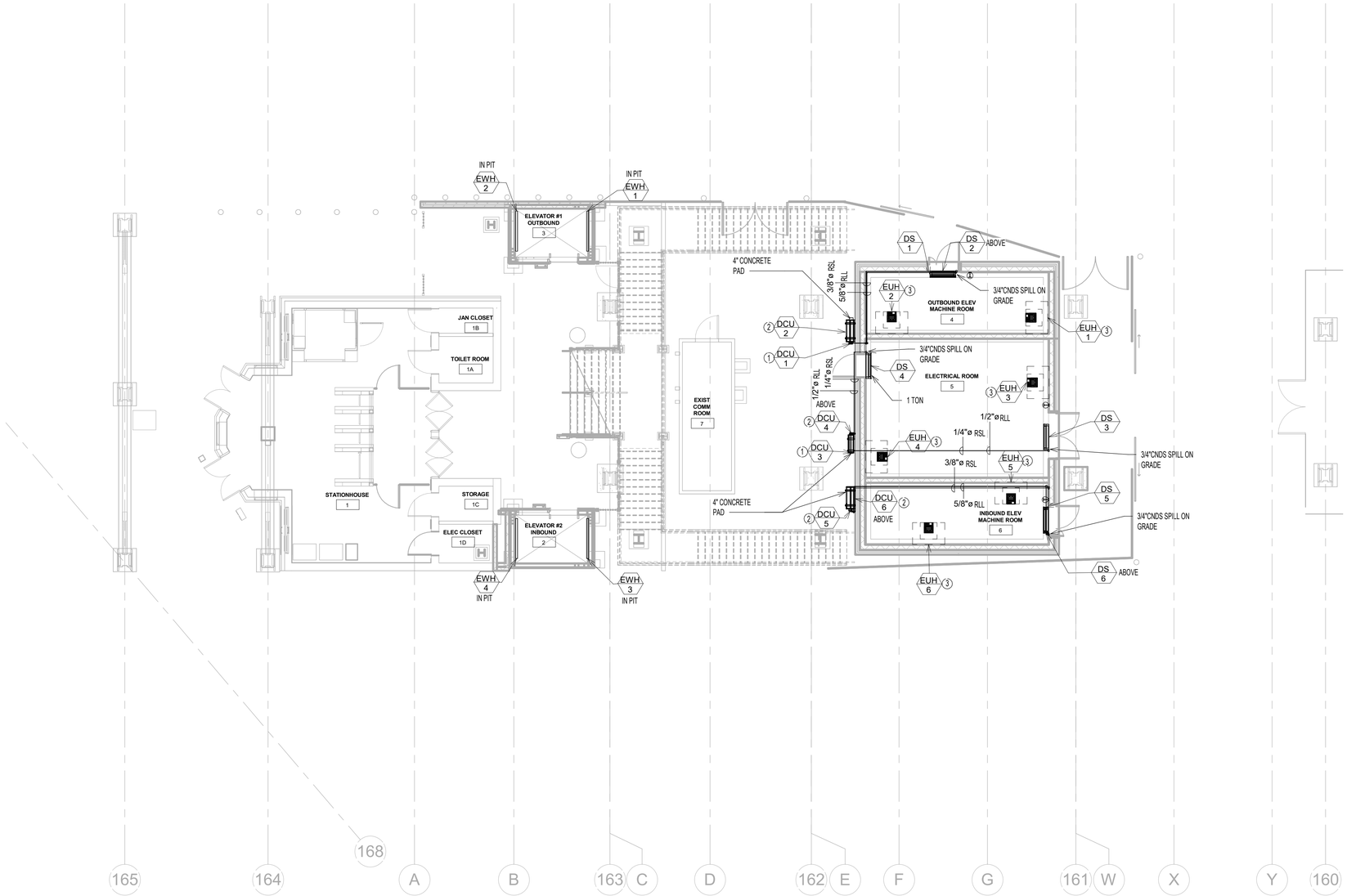
LSCAL | M-002

VOLUME: 1 OF 1

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1 M-101 STATION HVAC PLAN
SCALE: 1/8" = 1'-0"

0 4' 8' 16'
SCALE: 1/8"=1'-0"

NORTH

GENERAL NOTES:

1. SEE SHEETS M-001 AND M-002 FOR MECHANICAL SYMBOL LEGEND , ABBREVIATIONS AND GENERAL NOTES.
2. SEE SHEET M-501 FOR MECHANICAL DETAILS.
3. SEE SHEET M-601 FOR MECHANICAL SCHEDULES.

MECHANICAL KEY NOTES:

1. CONDENSING UNIT SHALL BE MOUNTED ON 4" CONCRETE PAD. FOLLOW MANUFACTURER RECOMMENDATIONS FOR COLD CLIMATE AND KEEP GAP BETWEEN UNIT AND WALL. PROVIDE TEMPERATURE CONTROLLER INTEGRAL TO THE UNIT.
2. CONDENSING UNIT SHALL BE WALL MOUNTED USING MITSUBISHI # QSWBSS WALL BRACKET. FOLLOW MANUFACTURER RECOMMENDATIONS FOR COLD CLIMATE AND KEEP GAP BETWEEN UNIT AND WALL. PROVIDE TEMPERATURE CONTROLLER INTEGRAL TO THE UNIT.
3. PROVIDE TEMPERATURE CONTROLLER INTEGRAL TO THE UNIT.

HNTB
HNTB Corporation
One South Wacker Drive, Suite 900
Chicago, Illinois 60606
(312) 930-9119

AAA ENGINEERING
WBE/DBE CERTIFIED

CHICAGO TRANSIT AUTHORITY
ENGINEERING

SENSITIVE SECURITY INFORMATION

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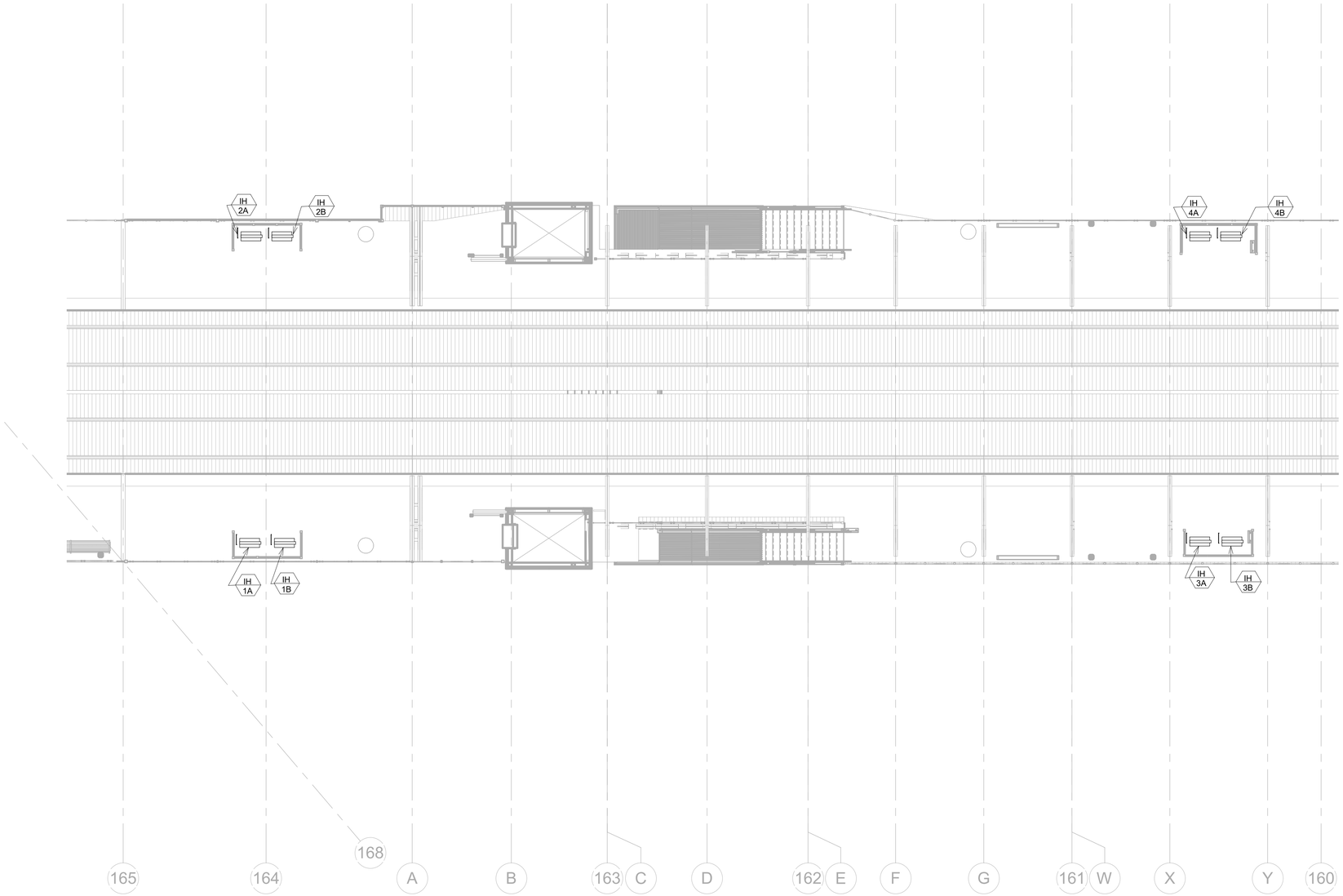
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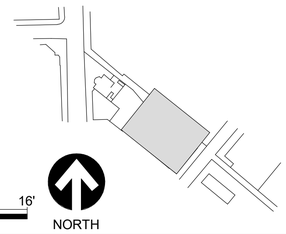
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STATION HVAC PLAN

LSCAL	M-101
VOLUME: 1 OF 1	



1 M-102 PLATFORM HVAC PLAN
SCALE: 1/8" = 1'-0"



0 4' 8' 16'
SCALE: 1/8"=1'-0"

NORTH

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PLATFORM HVAC PLAN

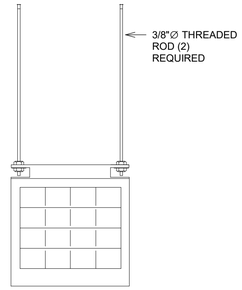
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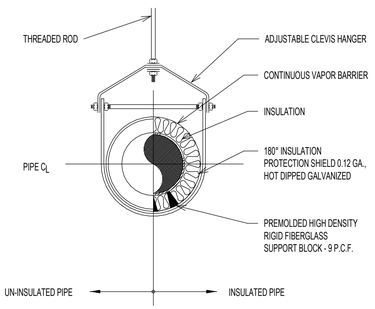
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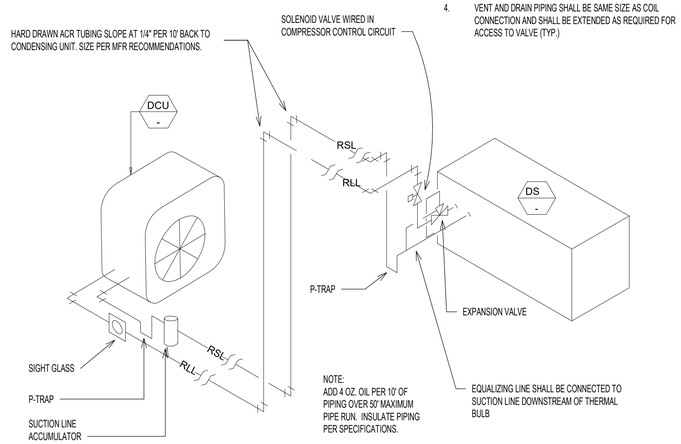
2 / M-501 UNIT HEATER HANGER DETAIL
SCALE:N.T.S.



1 / M-501 CLEVIS HANGER DETAIL
SCALE:N.T.S.

NOTES:

1. PIPING IS DIAGRAMMATIC IN NATURE.
2. ALL CHECK VALVES SHALL BE INSTALLED WITH FLOW HORIZONTAL OR VERTICALLY UPWARD.
3. AVOID BULL NOSE CONVERGING TEES.
4. VENT AND DRAIN PIPING SHALL BE SAME SIZE AS COIL CONNECTION AND SHALL BE EXTENDED AS REQUIRED FOR ACCESS TO VALVE (TYP.)



3 / M-501 SPLIT SYSTEM PIPING DETAIL
SCALE:N.T.S.

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MECHANICAL DETAILS

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VENTILATION SCHEDULE - CHICAGO MECHANICAL CODE

ROOM NO	ROOM NAME	ROOM PURPOSE	FLOOR AREA	ORDINANCE REQUIREMENTS				ACTUAL			EQUIPMENT SERVING			REMARKS
				REQUIRES OUTSIDE AIR				ACTUAL ROOM VENTILATION			DS/DCU/ECH	SUPPLY FAN	RETURN/EXHAUST FAN	
				SUPPLY REQ'D		EXHAUST REQ'D		OUTDOOR AIR	RETURN	EXHAUST				
				CFM/SQ.FT.	CFM	CFM/SQ.FT.	CFM	CFM	CFM	CFM				
STATION														
4	OUTBOUND ELEV MACHINERY ROOM	CORRIDOR & UTILITY	188	NA	NA	0	0	0	0	0	DS-1/DCU-1/DS-2/DCU-2/ECH-1, ECH-2	NA	NA	
5	ELECTRICAL ROOM	CORRIDOR & UTILITY	425	NA	NA	0	0	0	NA	0	DS-3/DCU-3/DS-4/DCU-4/ECH-3, ECH-4	NA	NA	
6	INBOUND ELEV MACHINERY ROOM	CORRIDOR & UTILITY	188	NA	NA	0	0	0	0	0	DS-5/DCU-5/DS-6/DCU-6/ECH-5, ECH-6	NA	NA	
		TOTAL	801				0	0	0	0				

REMARKS:
1.

DUCT FREE SPLIT SYSTEM AIR CONDITIONING UNIT SCHEDULE

INDOOR UNIT													OUTDOOR CONDENSING UNIT																
MARK	LOCATION	AIRFLOW CFM	TOTAL CLG. CAP BTUH	MOISTURE REMOVAL PINTS/H	MOTOR DATA					SOUND LEVEL dB AT HIGH	UNIT SIZE WxDxH	WEIGHT (LBS)	MANUFACTURE AND MODEL NUMBER	MARK	LOCATION	COMPRESSOR				COND. FAN		ELECTRICAL DATA					UNIT SIZE WxDxH	WEIGHT (LBS)	MANUFACTURE AND MODEL NUMBER	REFIRG. CHARGE (LBS & OZ.)	SYSTEM EER/SEER	REMARKS
					AMPS	MOCP	VOLTS	PH	HZ							QTY	TYPE	MCA	REFRIG. TYPE	QTY	TYPE	MCA	MOCP	VOLTS	PH	HZ						
DS-1	OUTBOUND ELEV MACHINERY ROOM	705-810-920	36,000	9.7	1.0	30	208	1	60	52	46 1/16"x11 5/8"x14 3/8"	46	MITSUBISHI #TPKA0A0361KA80A	DCU-1	EXTERIOR WALL	1	TWIN ROTARY	13.0	R410A	1	PROP.	25	31	208	1	60	41 5/16"x13"x52 11/16"	211	MITSUBISHI #TRUYA0361KA70NA	10 LBS. 6OZ.	19.4/10.8	1-5
DS-2	OUTBOUND ELEV MACHINERY ROOM	705-810-920	36,000	9.7	1.0	30	208	1	60	52	46 1/16"x11 5/8"x14 3/8"	46	MITSUBISHI #TPKA0A0361KA80A	DCU-2	EXTERIOR WALL	1	TWIN ROTARY	13.0	R410A	1	PROP.	25	31	208	1	60	41 5/16"x13"x52 11/16"	211	MITSUBISHI #TRUYA0361KA70NA	10 LBS. 6OZ.	19.4/10.8	1-5
DS-3	ELECTRICAL ROOM	215-255-320 -375	18,000	5.8	1.0	15	208	1	60	44	39 9/2"x6 11/16"x12 1/8"	28	MITSUBISHI #TPKA0A0181LA10A	DCU-3	EXTERIOR WALL	1	TWIN ROTARY	12.0	R410A	1	PROP.	11	28	208	1	60	31 13/16"x11 13/16" x24 13/16"	99	MITSUBISHI #TRUYA0181KA70NA	4 LBS. 14OZ.	20.2/10.7	1-5
DS-4	ELECTRICAL ROOM	215-255-320 -375	18,000	5.8	1.0	15	208	1	60	44	39 9/2"x6 11/16"x12 1/8"	28	MITSUBISHI #TPKA0A0181LA10A	DCU-4	EXTERIOR WALL	1	TWIN ROTARY	12.0	R410A	1	PROP.	11	28	208	1	60	31 13/16"x11 13/16" x24 13/16"	99	MITSUBISHI #TRUYA0181KA70NA	4 LBS. 14OZ.	20.2/10.7	1-5
DS-5	INBOUND ELEV MACHINERY ROOM	705-810-920	36,000	9.7	1.0	30	208	1	60	52	46 1/16"x11 5/8"x14 3/8"	46	MITSUBISHI #TPKA0A0361KA80A	DCU-5	EXTERIOR WALL	1	TWIN ROTARY	13.0	R410A	1	PROP.	25	31	208	1	60	41 5/16"x13"x52 11/16"	211	MITSUBISHI #TRUYA0361KA70NA	10 LBS. 6OZ.	19.4/10.8	1-5
DS-6	INBOUND ELEV MACHINERY ROOM	705-810-920	36,000	9.7	1.0	30	208	1	60	52	46 1/16"x11 5/8"x14 3/8"	46	MITSUBISHI #TPKA0A0361KA80A	DCU-6	EXTERIOR WALL	1	TWIN ROTARY	13.0	R410A	1	PROP.	25	31	208	1	60	41 5/16"x13"x52 11/16"	211	MITSUBISHI #TRUYA0361KA70NA	10 LBS. 6OZ.	19.4/10.8	1-5

REMARKS:
1. PROVIDE DISCONNECT SWITCH & STARTER, ANTI SHORT CYCLE DELAY, LOW/HIGH PRESSURE SWITCH, COMPRESSOR START ASSIST CAPACITOR AND RELAY, AND CRANKCASE HEATER.
2. UNIT SHALL BE CONTROLLED BY WALL-MOUNTED THERMOSTAT.
3. UNIT TO INCLUDE BUILT-IN LIFTING MECHANISM FOR CONDENSATE REMOVAL, PIPE TO GRADE AND PROVIDE HEAT TRACE TO CONDENSATE DRAIN.
4. PROVIDE REFRIGERANT PIPING AND ACCESSORIES AS PER MANUFACTURER'S INSTRUCTIONS.
5. WIRING BY DIV 26.

INFRARED HEATER SCHEDULE (ELECTRIC)

MARK	LOCATION	TYP	BTUH	ELECTRICAL DATA					HEATING AREA SQ.FT.	UNIT SIZE WxDxH	WEIGHT (LBS)	MANUFACTURE AND MODEL NUMBER	REMARKS
				WATTS	AMPS	VOLTS	PH	HZ					
IH-1A	PLATFORM	CEILING MOUNTED	10236	3000	10.83	208	1	60	49	33"x2.5"x8.88"	14	INFRATECH # CD3028WH	1
IH-1B	PLATFORM	CEILING MOUNTED	10236	3000	10.83	208	1	60	49	33"x2.5"x8.88"	14	INFRATECH # CD3028WH	1
IH-2A	PLATFORM	CEILING MOUNTED	10236	3000	10.83	208	1	60	49	33"x2.5"x8.88"	14	INFRATECH # CD3028WH	1
IH-2B	PLATFORM	CEILING MOUNTED	10236	3000	10.83	208	1	60	49	33"x2.5"x8.88"	14	INFRATECH # CD3028WH	1
IH-3A	PLATFORM	CEILING MOUNTED	10236	3000	10.83	208	1	60	49	33"x2.5"x8.88"	14	INFRATECH # CD3028WH	1
IH-3B	PLATFORM	CEILING MOUNTED	10236	3000	10.83	208	1	60	49	33"x2.5"x8.88"	14	INFRATECH # CD3028WH	1
IH-4A	PLATFORM	CEILING MOUNTED	10236	3000	10.83	208	1	60	49	33"x2.5"x8.88"	14	INFRATECH # CD3028WH	1
IH-4B	PLATFORM	CEILING MOUNTED	10236	3000	10.83	208	1	60	49	33"x2.5"x8.88"	14	INFRATECH # CD3028WH	1

REMARKS:
1. MOUNTING HEIGHT 8'-0" AFF.

REFRIGERATION SCHEDULE

TAG	TYP OF UNIT	LOCATION	REFRIG.OF LBS. + OZ.	COMPRESSOR				AIR COOLED	REMARKS.
				MANUFACTURER	TYPE	NO. OF COMP.	TONS		
DCU-1	PROPELLER	EXTERIOR WALL	10 LBS. 6OZ.	LG	TWIN ROTARY	1	1	Y	-
DCU-2	PROPELLER	EXTERIOR WALL	10 LBS. 6OZ.	LG	TWIN ROTARY	1	1	Y	-
DCU-3	PROPELLER	EXTERIOR WALL	10 LBS. 6OZ.	LG	TWIN ROTARY	1	1	Y	-
DCU-4	PROPELLER	EXTERIOR WALL	10 LBS. 6OZ.	LG	TWIN ROTARY	1	1	Y	-
DCU-5	PROPELLER	EXTERIOR WALL	10 LBS. 6OZ.	LG	TWIN ROTARY	1	1	Y	-
DCU-6	PROPELLER	EXTERIOR WALL	10 LBS. 6OZ.	LG	TWIN ROTARY	1	1	Y	-

CEILING/WALL UNIT HEATER SCHEDULE (ELECTRIC)

MARK	LOCATION	TYP	BTUH	CFM	ELECTRICAL DATA				APPROXIMATE AIR TEMP. RISE °F (°C)	MAX. MOUNTING HEIGHT		UNIT SIZE WxDxH	WEIGHT (LBS)	MANUFACTURE AND MODEL NUMBER	REMARKS
					AMPS	VOLTS	PH	HZ		HORIZ.	VERT.				
EUH-1	OUTBOUND ELEV MACHINERY ROOM	CEILING MOUNTED	7500	350	11.0	208	1	60	26	8	9	14"x7 1/2"x16"	27	QMARK # MUH03-21	1
EUH-2	OUTBOUND ELEV MACHINERY ROOM	CEILING MOUNTED	7500	350	11.0	208	1	60	26	8	9	14"x7 1/2"x16"	27	QMARK # MUH03-21	1
EUH-3	ELECTRICAL ROOM	CEILING MOUNTED	10200	350	14.5	208	1	60	42	8	9	14"x7 1/2"x16"	27	QMARK # MUH03-81	1
EUH-4	ELECTRICAL ROOM	CEILING MOUNTED	10200	350	14.5	208	1	60	42	8	9	14"x7 1/2"x16"	27	QMARK # MUH03-81	1
EUH-5	INBOUND ELEV MACHINERY ROOM	CEILING MOUNTED	7500	350	11.0	208	1	60	26	8	9	14"x7 1/2"x16"	27	QMARK # MUH03-21	1
EUH-6	INBOUND ELEV MACHINERY ROOM	CEILING MOUNTED	7500	350	11.0	208	1	60	26	8	9	14"x7 1/2"x16"	27	QMARK # MUH03-21	1
EWH-1	ELEVATOR #1 OUTBOUND PIT	WALL MOUNTED	4266	250	6.0	208	1	60	14	-	-	5' LONG	24	QMARK # ST05	2
EWH-2	ELEVATOR #1 OUTBOUND PIT	WALL MOUNTED	4266	250	6.0	208	1	60	14	-	-	5' LONG	24	QMARK # ST05	2
EWH-3	ELEVATOR #2 INBOUND PIT	WALL MOUNTED	4266	250	6.0	208	1	60	14	-	-	5' LONG	24	QMARK # ST05	2
EWH-4	ELEVATOR #2 INBOUND PIT	WALL MOUNTED	4266	250	6.0	208	1	60	14	-	-	5' LONG	24	QMARK # ST05	2

REMARKS:
1. UNIT SHALL BE CONTROLLED BY WALL-MOUNTED THERMOSTAT.
2. THERMAL LIMIT SWITCH BY MANUFACTURER. PROVIDE INTEGRAL THERMOSTAT AND DISCONNECT SWITCH.

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LEGEND

SYMBOL	DESCRIPTION
	POWER TRANSFORMER
	SHIELDED TRANSFORMER
	3-PHASE WYE, GROUNDED
	3-PHASE, 3-WIRE, DELTA
	CIRCUIT BREAKER
	DRAW-OUT CIRCUIT BREAKER
	FUSE
	DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	SWITCH - GENERAL
	ELECTRICAL EQUIPMENT, SUCH AS CONTROL PANELS, PULLBOXES, ETC.
	CONDUIT EMBEDDED IN CONCRETE OR BURIED IN EARTH
	CONDUIT EXPOSED
	CONDUIT TURNING UP OR TOWARD OBSERVER
	CONDUIT TURNING DOWN OR AWAY FROM OBSERVER
	NORMALLY CLOSED CONTACT
	NORMALLY OPEN CONTACT
###	FEEDER TAG
K	MECHANICAL INTERLOCK
	PANELBOARD
J	JUNCTION BOX
	HOMERUN CONDUIT
FACP	FIRE ALARM CONTROL PANEL
FAA	FIRE ALARM ANNUNCIATOR
SD	SMOKE DETECTOR
D	HEAT DETECTOR
AV	AUDIO/VISUAL DEVICE
V	VISUAL DEVICE
EOL	END OF LINE RESISTOR

LEGEND

SYMBOL	DESCRIPTION
EB	EMERGENCY LIGHT FIXTURE
	EXIT-DIRECTIONAL SIGN; NUMBERS INDICATE INCRIPTION, ARROWS AND SINGLE OR DOUBLE FACED AS SHOWN IN THE FOLLOWING SCHEDULE. SHADED QUADRANT INDICATES DIRECTION OF LIGHTED FACE. MTG HEIGHT AS INDICATED. SINGLE-FACE: X1 "FIRE ESCAPE"; X2 "STAIRWAY"; X3 "EXIT"; X4 "FIRE ESCAPE"; X5 "STAIRWAY"; X6 "EXIT"; X7 "FIRE ESCAPE"; X8 "STAIRWAY"; X9 "EXIT"; X10 "FIRE ESCAPE"; X11 "STAIRWAY"; X12 "EXIT" DOUBLE-FACE: X13 NOT USED; X14 NOT USED; X15 ELEVATOR; X16; X17 "STAIRWAY"; X18 "EXIT"; X19 "FIRE ESCAPE"; X20 "STAIRWAY"; X21 "EXIT"; X22 "FIRE ESCAPE"; X23 "STAIRWAY"; X24 "EXIT"
	SURFACE LED LIGHT FIXTURE
	RECESSED LED LIGHT FIXTURE
	PLATFORM POLE MTD LED LIGHT FIXTURE
	EMERGENCY SURFACE LED LIGHT FIXTURE
	EMERGENCY RECESSED LED LIGHT FIXTURE
F1 15 LP	F1 - INDICATES LIGHTING FIXTURE TYPE LP - INDICATES CONNECTED PANELBOARD 15 - INDICATES CIRCUIT NO. ON PANEL
$	LIGHTING TOGGLE SWITCH, 120V AC, 20A
	DUPLEX RECEPTACLE, 120V AC, 20A
WP	DUPLEX RECEPTACLE - WEATHER PROOF WITH "WHILE-IN-USE" COVER, 120V AC, 20A
	QUADRUPLEX RECEPTACLE, 120V AC, 20A
	EXISTING WORK TO REMAIN
	EXISTING WORK TO BE REMOVED
	NEW WORK TO BE PERFORMED
#	RELAY; NUMBERS INDICATE ANSI DEVICE TYPE AS SHOWN IN THE FOLLOWING SCHEDULE. 27 UNDERVOLTAGE RELAY 43 MANUAL TRANSFER OR SELECTOR DEVICE 47 PHASE-SEQUENCE OR PHASE BALANCE VOLTAGE RELAY 51 AC TIME OVERCURRENT RELAY 51N NEUTRAL TIME OVERCURRENT 52 AC CIRCUIT BREAKER 59 OVERVOLTAGE RELAY 86 LOCKING-OUT RELAY

ABBREVIATIONS

A	AMPERE, AMMETER
AC	ALTERNATING CURRENT
AF	AMPERE FRAME
AFF	ABOVE FINISHED FLOOR
ALRM	ALARM
ALT	ALTERNATE
AMP	AMPERE
ANN	ANNUNCIATOR
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX	APPROXIMATE
AS	AMMETER SWITCH
AT	AMPERE TRIP
ATC	ATTENDED
ATT	AUTOMATIC TRANSFER CONTROL
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
AWG	AMERICAN WIRING GUAGE
AVAIL	AVAILABLE
BKR	BREAKER
BLDG	BUILDING
BSMT	BASEMENT
C	CAPACITOR
COMED	COMMONWEALTH EDISON COMPANY
CAB	CABINET
C.B.	CIRCUIT BREAKER
CC	CLOSING COIL
CCT, CKT	CIRCUIT
CF	CEILING/CENTRIFUGAL FAN
CL	CENTER LINE
CO	COMPANY
COMM	COMMUNICATION
CONT	CONTRACTOR
CRN	CRANE
CS	CONTROL SWITCH
CUB	CUBICLE
CT	CURRENT TRANFORMER
CTRL	CONTROL
D	DOOR
DC	DIRECT CURRENT
DEV	DEVICE
DISC	DISCONNECT
DISCSW	DISCONNECT SWITCH
DIST	DISTRIBUTION
DP	DISTRIBUTION PANELBOARD
E	EXISTING TO REMAIN
EM, EMRG	EMERGENCY
EEW	EMERGENCY EYE WASH
EF	ELECTRIC EXHAUST FAN
EHD	ELECTRIC HAND DRYER
ELEC	ELECTRIC
ELF	EMERGENCY LIGHT FEED
EOL	END OF LINE
EQUIP'T	EQUIPMENT
EUH	ELECTRIC UNIT HEATER
EWH	ELECTRIC WATER HEATER
EXH	EXHAUST
F	FILTER
FA	FORCED AIRFLOW
FCEP	FARE CONTROL EQUIPMENT PANEL
FDR	FEEDER
FL	FLOOR
FLT	FLOATING
FRE	FIBERGLASS REINFORCED EPOXY
FS	FLOAT SWITCHES
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND,GRD	GROUND
GUH	GAS UNIT HEATER
HP	HORSEPOWER
HR	HAND RESET
HTR	HEATER
HV	HIGH VOLTAGE
HW	HIGH WATER
HZ	HERTZ
IB	INBOUND
IR	INFRARED HEATER
ITC	INTERFACE TERMINAL CABINET
J,JB	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MIL
KA	KILOAMPS
KV	KILOVOLT
KVA	KILOVOLT AMPERE
L	LOCAL
LED	LIGHT EMITTING DIODE
LO	LOCKOUT
LP	LIGHTING PANEL
LS	LIGHT SWITCH
LT	LIGHT
LTG	LIGHTING
LVL	LEVEL
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MCCB	MODULE CASE CIRCUIT BREAKER
MECH	MECHANICAL
MIN	MINIMUM
MILO	MAIN LUGS ONLY
MS	MOTION SENSOR
MSWBD	MAIN SWITCHBOARD
MTD	MOUNTED
MTG	MOUNTING
MTR	METERING, MOTOR
N	NORMAL
N.C.	NORMALLY CLOSED
NEG	NEGATIVE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NEUT	NEUTRAL
NO	NUMBER
N.O.	NORMALLY OPEN
N.T.S.	NOT TO SCALE
OB	OUTBOUND
OC	OVERCURRENT
OL	OPEN LOOP
OPER	OPERATOR
OV	OVERVOLTAGE
P	POLE, PHASE
PB	PUSH BUTTON
PH	PHASE
PI	POINT OF INCLINE
PNL	PANELBOARD
POS	POSITIVE
PP	POWER PANELBOARD
PROT	PROTECTION
PS	PRESSURE SWITCH/POINT OF SWITCH
PT	POTENTIAL TRANSFORMER
R	RELOCATED
RCP	RELAY CONTROL PANEL
RCPL	RECEPTACLE
RECT	RECTIFIER
RGS	RIGID GALVANIZED STEEL
RTRC	REINFORCED THERMOSETTING RESIN CONDUIT
RTU	REMOTE TERMINAL UNIT
SCADA	SUPERVISORY CONTROL AND DATA ACQUISITION
SD	SMOKE DETECTOR
SECT	SECTION
SH	STATION HEATER
SIM	SIMILAR
SP	SUMP PUMP
SPD	SURGE PROTECTION DEVICE
STA, STN	STATION
SUPV	SUPERVISORY
SW	SWITCH
SWGR	SWITCHGEAR
T	THERMOSTAT
TC	TRIP COIL
TDDO	TIME DELAY DROPOUT
TDPU	TIME DELAY ON PICKUP
TEL	TELEPHONE
TELEMET	TELEMETERING
TEMP	TEMPERATURE
TERM	TERMINAL
TS	TEST SWITCH
TX	TRANSFORMER
UNATT	UNATTENDED
UNO	UNLESS NOTED OTHERWISE
UVT	UNDERVOLTAGE TRIP DEVICES
V	VOLTS, VOLTMETER
VDC	VOLTS OF DIRECT CURRENT
VENT	VENTILATION
V.I.F.	VERIFY IN FIELD
VS	VOLTMETER SWITCH
W	WATT

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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

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DRAWN BY	AS/AG

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ELECTRICAL SYMBOLS LEGEND AND ABBREVIATIONS

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VOLUME: 1 OF 1

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GENERAL NOTES:

1. THIS CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY PERMITS, APPROVALS AND CERTIFICATES OF INSPECTION FOR ALL EQUIPMENT REQUIRED BY CHICAGO AND THE STATE OF ILLINOIS IN ACCORDANCE WITH SPECIFICATIONS..
2. ALL EQUIPMENT SHALL BE MANUFACTURED AND/OR CONFORM TO THE STANDARDS OF NEMA, IES, ANSI, AND IEEE AND SHALL BE UL LISTED.
3. ALL MATERIALS SHALL BE NEW AND THE BEST OF THEIR RESPECTIVE KIND. THE WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER BY SKILLED CRAFTSPEOPLE.
4. ALL PANELS TO HAVE ACCURATE (AS-BUILT) TYPED DIRECTORIES IN THE PANEL DOORS.
5. ROUTE CABLE AND CONDUIT PARALLEL AND PERPENDICULAR TO BUILDING LINES IN A NEAT AND ORDERLY MANNER.
6. AVOID INTERFERENCE WITH THE OTHER TRADES AND EXISTING EQUIPMENT.
7. VERIFY THE LOCATION OF MECHANICAL EQUIPMENT WITH THE MECHANICAL DRAWINGS.
8. THE ELECTRICAL CONTRACTOR SHALL SUBMIT QUESTIONS IN ACCORDANCE WITH THE PROJECT MANUAL AND SPECIFICATIONS.
9. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A GUARANTEE ON THE ELECTRICAL WORK AND MATERIAL FOR ONE YEAR AFTER DATE OF ACCEPTANCE BY THE AUTHORITY.
10. ALL EQUIPMENT WILL BE CONNECTED FROM THEIR DISCONNECT SWITCH BY LIQUID TIGHT FLEXIBLE CONDUIT.
11. ALL GROUNDING MUST BE PER ARTICLE 250 OF THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE. FOR EARTH GROUND SYSTEMS, RESISTANCE TO EARTH SHALL NOT EXCEED TWO OHMS.
12. ALL WIRE TO BE COPPER, 600 VOLT, 90° C RATED, SIZED PER DRAWING, SIZE 12 AWG MINIMUM.
13. ELECTRICAL COPPER CONDUCTORS TO BE INSULATED FOR 600 VOLTS. INSULATION TO BE COLORED AS FOLLOWS:

PHASE	208/120V
A	BLACK
B	RED
C	BLUE
NEUTRAL	WHITE
GROUND	GREEN

14. TEST ALL WIRE PULLED FOR SHORTS, GROUNDS AND FAULTS WITH MEGGER-OHM METER TESTS. REPLACE ALL DEFECTIVE CONDUCTORS FROM POINT OF ORIGIN TO POINT OF USE.
15. NO WIRING SPLICES ALLOWED IN CONDUITS.
16. RIGID GALVANIZED STEEL (RGS) CONDUITS SHALL BE MINIMUM 3/4". REINFORCED THERMOSETTING RESIN CONDUIT (RTRC) ALSO REFERRED TO AS FIBERGLASS REINFORCED (FRE) CONDUITS SHALL BE MINIMUM 1 1/2". FOR RGS CONDUITS, ONLY THREADED CONNECTIONS ARE ALLOWED.
17. INSTALLATION OF ELECTRICAL WORK THAT REQUIRES ALTERATION OF BUILDING ELEMENTS WILL BE REPAIRED TO ITS ORIGINAL CONDITION.
18. ALL CONDUITS AND EQUIPMENT TO BE SUPPORTED ACCORDING TO NATIONAL ELECTRICAL CODE REQUIREMENTS.
19. THIS CONTRACTOR SHALL SUBMIT A SET OF ACCURATE AS-BUILT DRAWINGS IN ACCORDANCE WITH SPECIFICATIONS.
20. ALL EQUIPMENT TERMINATIONS SHALL BE RATED AT 75°C.
21. ALL WALL AND CEILING PENETRATIONS ARE TO BE PROPERLY SEALED TO BE WEATHERTIGHT, FIREPROOF AND SMOKE PROOF.
22. ROUTE FLEXIBLE LIQUID TIGHT CONDUIT TO ALL MOTOR EQUIPPED DEVICES FROM A STATIONARY FIXED POINT (REMOTE MOUNTED DISCONNECT SWITCH).
23. CONTRACTOR SHALL ADJUST OVERLOADS ACCORDING TO MOTOR NAMEPLATE.
24. ALL BOXES OUTSIDE SHALL BE CAST WEATHER PROOF TYPE.
25. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR REMOVAL OF EQUIPMENT.
26. ALL EXISTING LIGHTINGS FIXTURES ARE REMAIN AS IS, UNLESS NOTED OTHERWISE.
27. ALL NEW CABLES ARE TO BE PROVIDED FOR ALL NEW LOADS.
28. LABEL ALL OUTLETS AND SWITCHES TO INDICATE LOAD SERVED (FOR SWITCHES), PANEL NAME AND CIRCUIT NUMBER.
29. PREPARE PRE-INSTALLATION DRAWINGS WITH EQUIPMENT AND FIXTURES LAYOUT, INCLUDING WIRING CONFIGURATION (UNDERGROUND, ABOVE GROUND AND INTERCONNECTIONS) FOR THE ENGINEER'S APPROVAL.
30. MINIMUM SIZE OF LIGHTING BRANCH WIRE SHALL BE #12. IF BRANCH CIRCUIT EXCEEDS 15A AND IS A GREATER DISTANCE THAN 48 FEET FROM THE PANEL, WIRE SIZE SHALL BE INCREASED TO KEEP VOLTAGE DROP FROM SWITCHBOARD TO POINT OF UTILIZATION TO LESS THAN 2% FOR LIGHTING AND 3% FOR POWER. VOLTAGE DROP CALCULATIONS SHALL COMPLY WITH CHICAGO ELECTRICAL CODE.
31. ROUTE CABLE AND CONDUIT PARALLEL AND PERPENDICULAR TO BUILDING LINES IN A NEAT AND ORDERLY MANNER. WHERE LARGE GROUPS OF BRANCH CIRCUIT CONDUITS PENETRATE THE WALLS OF THE ELECTRICAL/ELEVATOR MACHINE BUILDING, THEY SHOULD BE LIMITED TO THE EAST SIDE OF THE BUILDING. CONDUIT LAYOUT PLANS MUST BE SUBMITTED IN CORRESPONDING SHOP DRAWINGS FOR REVIEW AND APPROVAL BY CTA ELECTRICAL ENGINEERING.
32. CONDUIT PENETRATIONS THROUGH THE ROOF/CEILING OF THE STATIONHOUSE AND THE ELECTRICAL/ELEVATOR MACHINE BUILDING ARE NOT ALLOWED. IF A ROOF/CEILING PENETRATION IS DEEMED NECESSARY, CONTRACTOR MUST COORDINATE WITH CTA PM AND CTA ENGINEERING PRIOR TO INSTALLATION OF EQUIPMENT AND PENETRATION OF ROOF. PENETRATION DETAILS MUST BE SUBMITTED IN CORRESPONDING SHOP DRAWINGS FOR REVIEW AND APPROVAL BY CTA ARCHITECTURAL AND ELECTRICAL ENGINEERING.
33. LIGHT FIXTURES ARE SHOWN FOR DIAGRAMMATIC PURPOSES. PROPER COORDINATION WITH LIGHTING MANUFACTURER IS REQUIRED FOR FINAL LOCATION OF LIGHT FIXTURES TO MEET LIGHTING LEVELS PER CTA DESIGN CRITERIA, CHAPTER 10 AND AS APPROVED BY CTA ELECTRICAL ENGINEER.

INTERNATIONAL ENERGY CONSERVATION CODE (IECC) 2021 COMPLIANCE NOTES:

1. LOW VOLTAGE TRANSFORMERS SHALL MEET THE MINIMUM EFFICIENCY REQUIREMENTS OF TABLE C405.7 OF INTERNATIONAL ENERGY CONSERVATION CODE (IECC) 2021.
2. ELECTRIC MOTORS SHALL MEET THE MINIMUM EFFICIENCY REQUIREMENTS OF IECC 2021 TABLES C405.8(1) THROUGH C405.8(4). EFFICIENCY SHALL BE VERIFIED THROUGH CERTIFICATION UNDER AN APPROVED CERTIFICATION PROGRAM OR THE EQUIPMENT EFFICIENCY RATINGS SHALL BE PROVIDED BY MOTOR MANUFACTURER (WHERE CERTIFICATION PROGRAMS DO NOT EXIST).
3. FURNISH O&M INSTRUCTIONS FOR SYSTEMS AND EQUIPMENT IN ACCORDANCE WITH SPECIFICATIONS.
4. INTERIOR INSTALLED LAMP AND FIXTURE LIGHTING POWER SHALL BE CONSISTENT WITH WHAT IS SHOWN ON THE APPROVED LIGHTING PLANS, DEMONSTRATING PROPOSED WATTS ARE LESS THAN OR EQUAL TO ALLOWED WATTS.
5. BUILDING OPERATIONS AND MAINTENANCE DOCUMENTS SHALL BE PROVIDED IN ACCORDANCE WITH SPECIFICATIONS. DOCUMENTS SHALL COVER MANUFACTURERS' INFORMATION, SPECIFICATIONS, PROGRAMMING PROCEDURES AND MEANS OF ILLUSTRATING TO OWNER HOW BUILDING, EQUIPMENT AND SYSTEMS ARE INTENDED TO BE INSTALLED, MAINTAINED, AND OPERATED.
6. FURNISH AS-BUILT DRAWINGS FOR ELECTRIC POWER SYSTEMS IN ACCORDANCE WITH SPECIFICATIONS.
7. LIGHTING SYSTEMS SHALL BE TESTED TO ENSURE PROPER CALIBRATION, ADJUSTMENT, PROGRAMMING, AND OPERATION.
8. THE EQUIPMENT, MATERIAL AND INSTALLATION SHALL COMPLY WITH LAWS APPLYING TO ELECTRICAL INSTALLATION IN EFFECT AND WITH THE REGULATIONS OF THE LOCAL BUILDING CODES.

FIRE ALARM SYSTEM NOTES:

1. INSTALLATION OF RELOCATED AND NEW FIRE ALARM DEVICES SHALL BE PER CITY OF CHICAGO CODE.
2. COORDINATE WITH FIRE ALARM SYSTEMS MAINTENANCE PERSONNEL AND THE MANUFACTURER AND OBTAIN SYSTEM COMPATIBLE PARTS WITHIN AREAS OF WORK.
3. PREPARE SUBMITTALS WITH PLAN LAYOUT, POINT-BY-POINT CONNECTIONS DIAGRAM AND PRODUCT DATA SHEETS TO OBTAIN BUILDING PERMIT. PERFORM REQUIRED FIRE ALARM TESTING AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
4. PLANS MUST BE PREPARED AND APPROVED BY A NICET CERTIFIED ENGINEER FOR APPROVAL.
5. ALL FIRE ALARM SYSTEM WIRING SHALL BE INSTALLED IN SEPARATE RACEWAYS LABELED "FA" AND JUNCTION BOXES MUST BE RED.

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ELECTRICAL NOTES

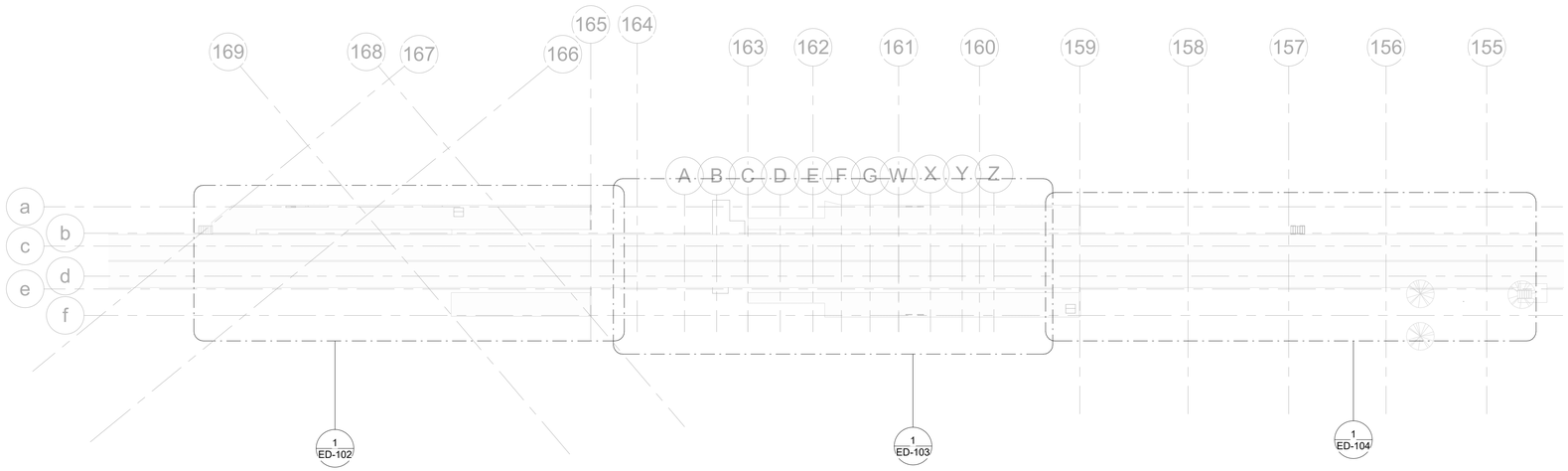
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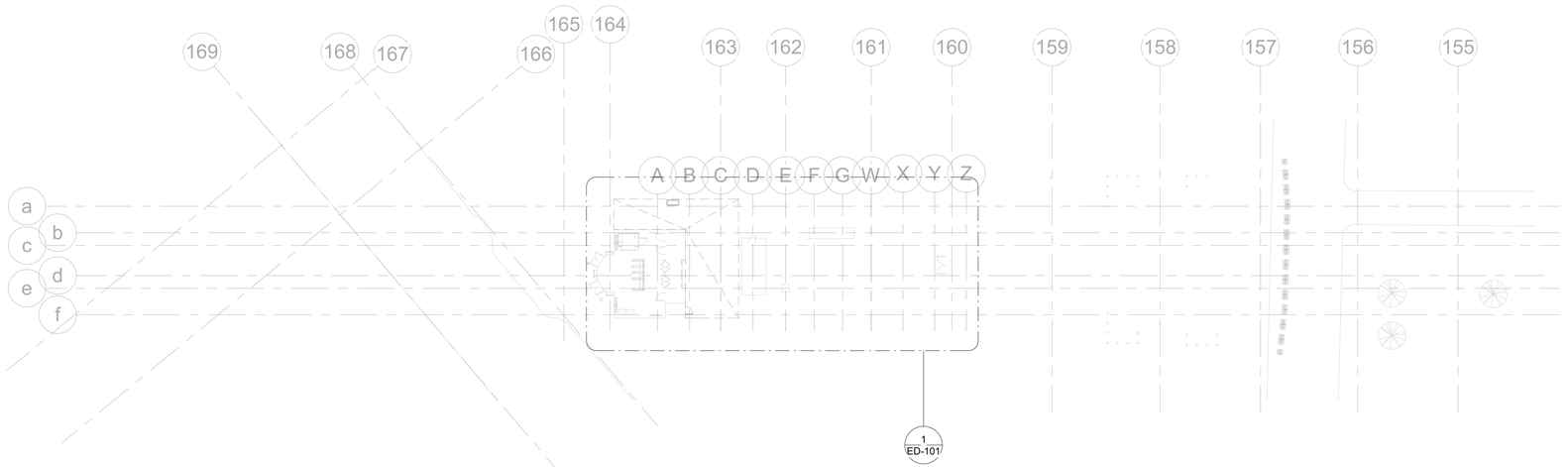
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GENERAL NOTES:

1. REFER TO SHEET E-001 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS. REFER TO SHEET E-002 FOR ELECTRICAL NOTES.



1 ED-100 PLATFORM DEMO - POWER PLAN OVERALL
SCALE: 1" = 30'-0"



2 ED-100 STATION DEMO - POWER PLAN OVERALL
SCALE: 1" = 30'-0"

0 15' 30' 45' 60'
SCALE: 1"=30'-0"

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OVERALL STATION AND PLATFORM DEMOLITION POWER PLANS

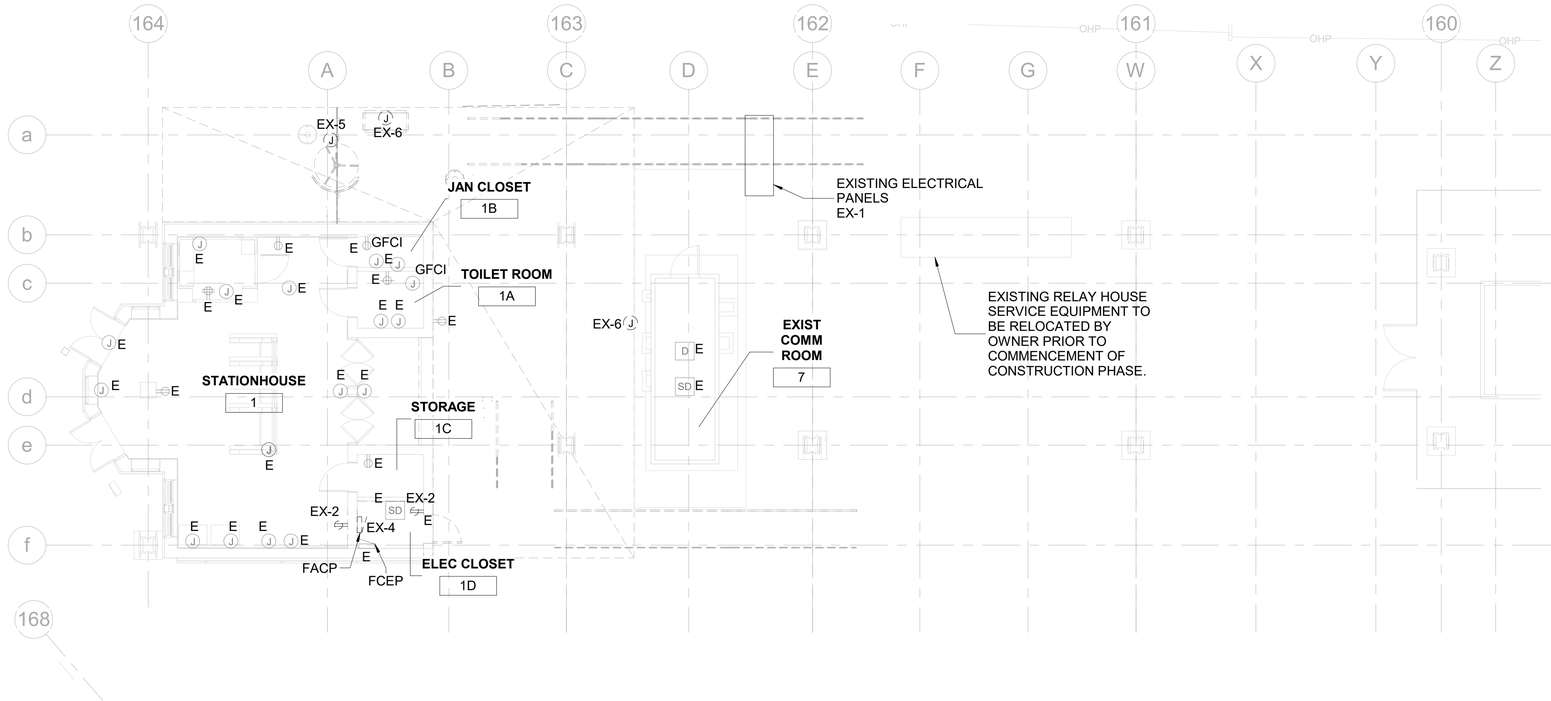
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1 ED-101 STATION DEMO - POWER PLAN
SCALE: 1/8" = 1'-0"

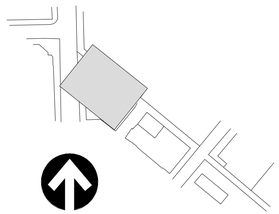
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2. COORDINATE WITH CTA PM AND CTA ELECTRICIANS FOR EXISTING ELECTRICAL EQUIPMENT INDICATED TO BE REMOVED TO BE SALVAGED AND TRANSPORTED TO CTA WEST SHOPS.

KEY NOTES: (EX-#)

1. EXISTING ELECTRICAL PANELS SHALL REMAIN AND BE USED TO TEMPORARILY POWER THE EXISTING STATION AND PLATFORM LOADS UNTIL THE TEMPORARY STATION IS OPERATIONAL. ONCE THE NEW ELECTRICAL PANEL PP-1 IN THE EXISTING ELECTRICAL CLOSET IS INSTALLED AND OPERATIONAL, THE EXISTING STATION HOUSE LOADS SHALL BE REFED. ONCE NEW PANELS AND SWITCHBOARD ARE IN OPERATION, EXISTING ELECTRICAL PANELS SHALL BE SALVAGED AND DELIVERED TO CTA WEST SHOPS. REFER TO SHEET E-601 FOR EXISTING SINGLE LINE DIAGRAM.
2. DISCONNECT AND REMOVE EXISTING RECEPTACLE. REMOVE EXISTING CONDUIT BACK TO NEAREST JUNCTION POINT AND PULL WIRING BACK TO PANEL.
3. DISCONNECT AND REMOVE EXISTING JUNCTION BOX. REMOVE EXISTING CONDUIT BACK TO NEAREST JUNCTION POINT AND PULL WIRING BACK TO PANEL.
4. DISCONNECT AND REMOVE EXISTING FIRE ALARM PANEL ONCE NEW FIRE ALARM SYSTEM IS INSTALLED AND OPERATIONAL.
5. RELOCATE JUNCTION BOX AND ASSOCIATED CONDUIT AND CABLE FOR HIGH BARRIER GATE TO NEW LOCATION AS PER PROPOSED STATION POWER PLAN.
6. DISCONNECT AND REMOVE JUNCTION BOX, CONDUIT AND CABLE ASSOCIATED WITH DMS SIGN. RELOCATE DMS SIGN TO NEW LOCATION AS SHOWN ON PROPOSED POWER PLAN.

0 4' 8' 16'
SCALE: 1/8"=1'-0"



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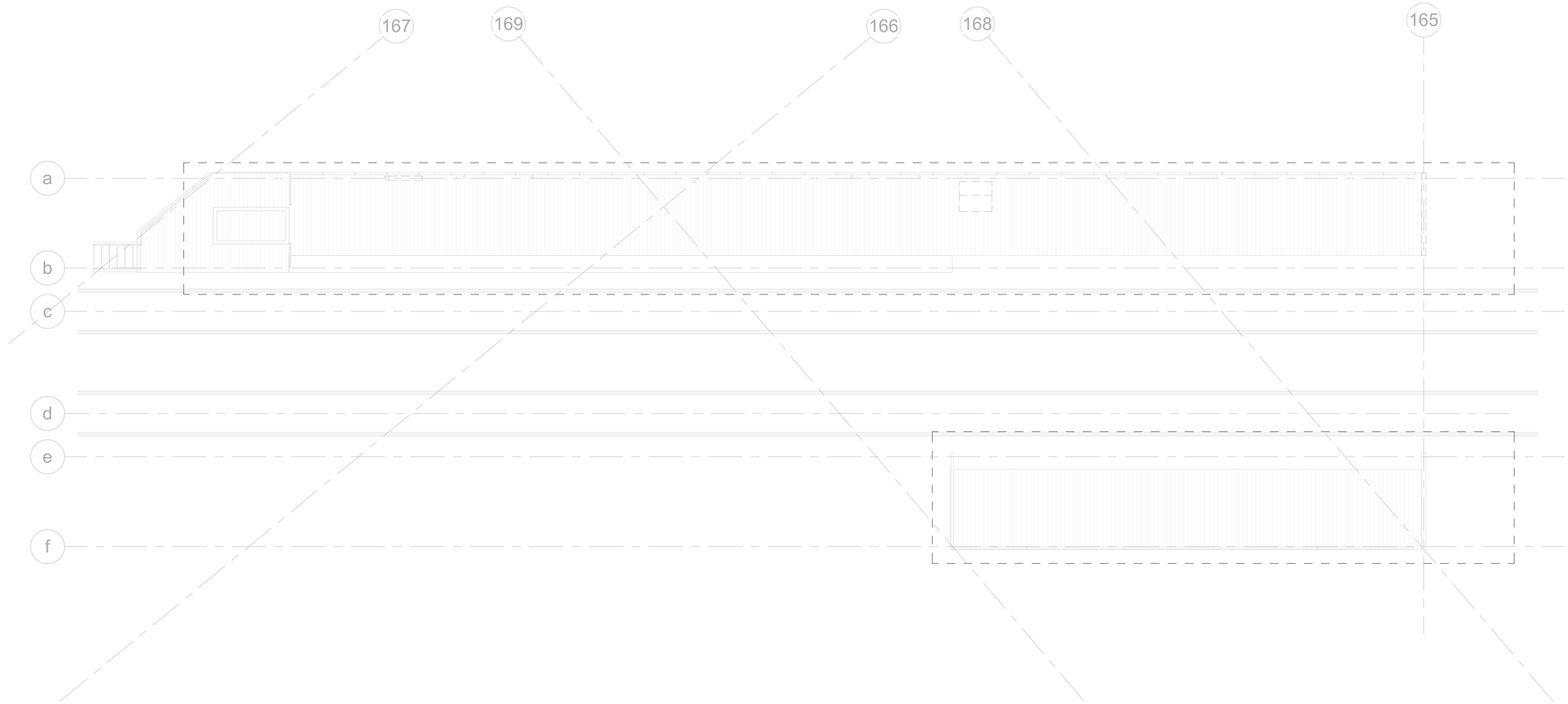
STATION DEMOLITION POWER PLAN

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VOLUME: 1 OF 1

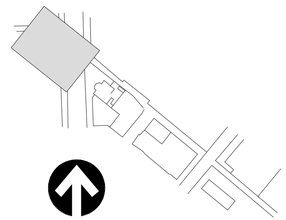
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3. THERE IS NO POWER RELATED WORK ON THIS SHEET. REFER TO SHEET ED-107 FOR DEMOLITION RELATED TO LIGHTING.



1 ED-102 PLATFORM DEMO - POWER PLAN NORTH
SCALE: 1/8" = 1'-0"

0 4' 8' 16'
SCALE: 1/8"=1'-0"



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DRAWN BY	AS/AG

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PLATFORM DEMOLITION POWER PLAN - NORTH

LSCAL | ED-102
VOLUME: 1 OF 1

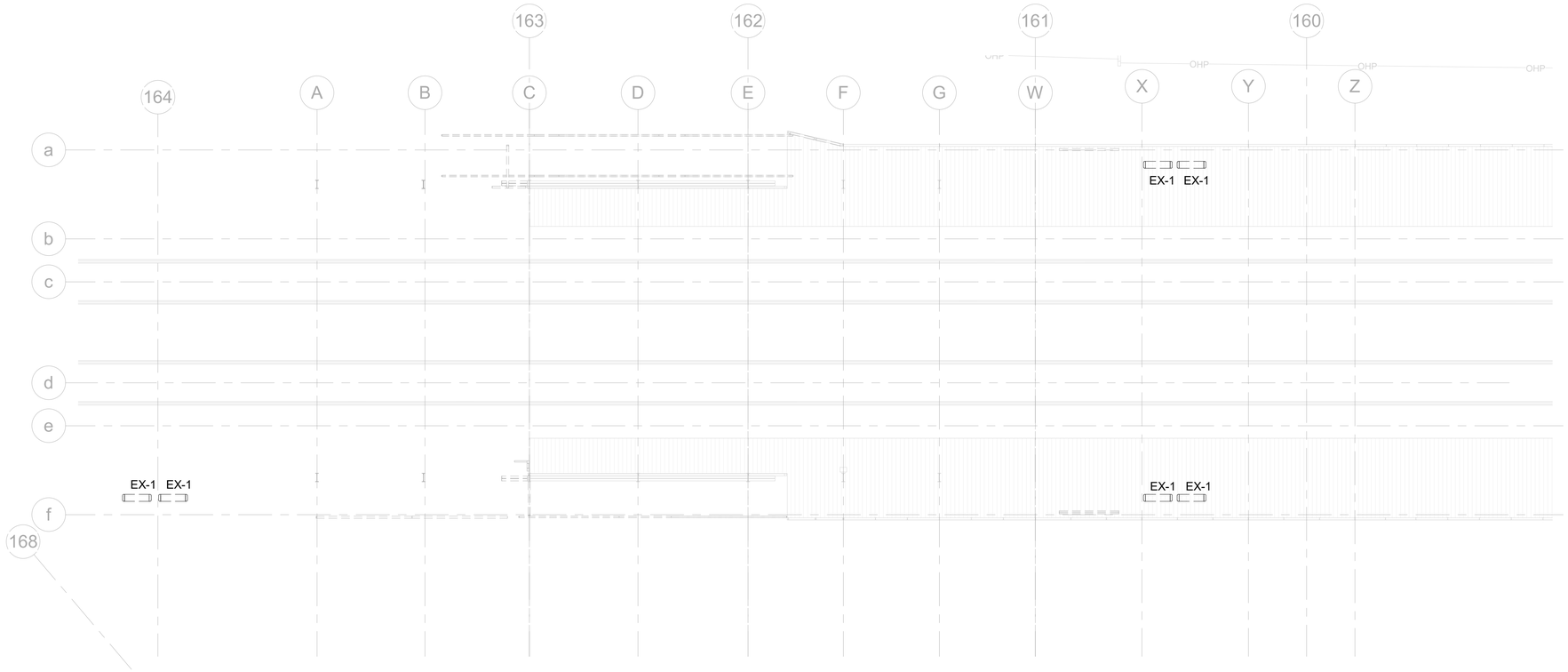
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GENERAL NOTES:

1. REFER TO SHEET E-001 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS. REFER TO SHEET E-002 FOR ELECTRICAL NOTES.
2. COORDINATE WITH CTA PM AND CTA ELECTRICIANS FOR EXISTING ELECTRICAL EQUIPMENT INDICATED TO BE REMOVED TO BE SALVAGED AND TRANSPORTED TO CTA WEST SHOPS.
3. EXISTING ELECTRICAL DEVICES THAT WILL BE IMPACTED BY ELEVATOR AND PLATFORM MODIFICATIONS WILL BE REPLACED OR RELOCATED.
4. EXISTING ELECTRICAL DEVICES TO REMAIN WILL BE REFED FROM NEW ELECTRICAL PANELS IN NEW ELECTRICAL BUILDING.

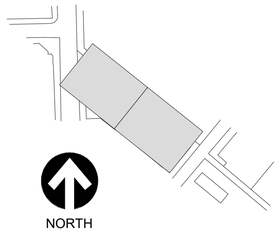
KEY NOTES: (EX-#)

1. DISCONNECT AND REMOVE EXISTING INFRARED HEATER AND ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE. SEE PROPOSED SHEET FOR NEW LOCATION OF NEW INFRARED HEATER. PROVIDE NEW JUNCTION BOX.



1 / ED-103 PLATFORM DEMO - POWER PLAN CENTER
SCALE: 1/8" = 1'-0"

0 4' 8' 16'
SCALE: 1/8"=1'-0"



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PLATFORM DEMOLITION POWER PLAN - CENTER

LSCAL | ED-103

VOLUME: 1 OF 1

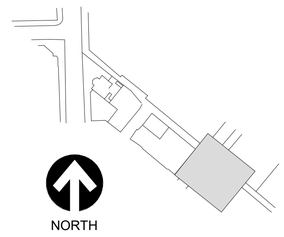
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3. THERE IS NO POWER RELATED WORK ON THIS SHEET. REFER TO SHEET ED-109 FOR DEMOLITION RELATED TO LIGHTING.



1 / ED-104 PLATFORM DEMO - POWER PLAN SOUTH
SCALE: 1/8" = 1'-0"



0 4' 8' 16'
SCALE: 1/8"=1'-0"

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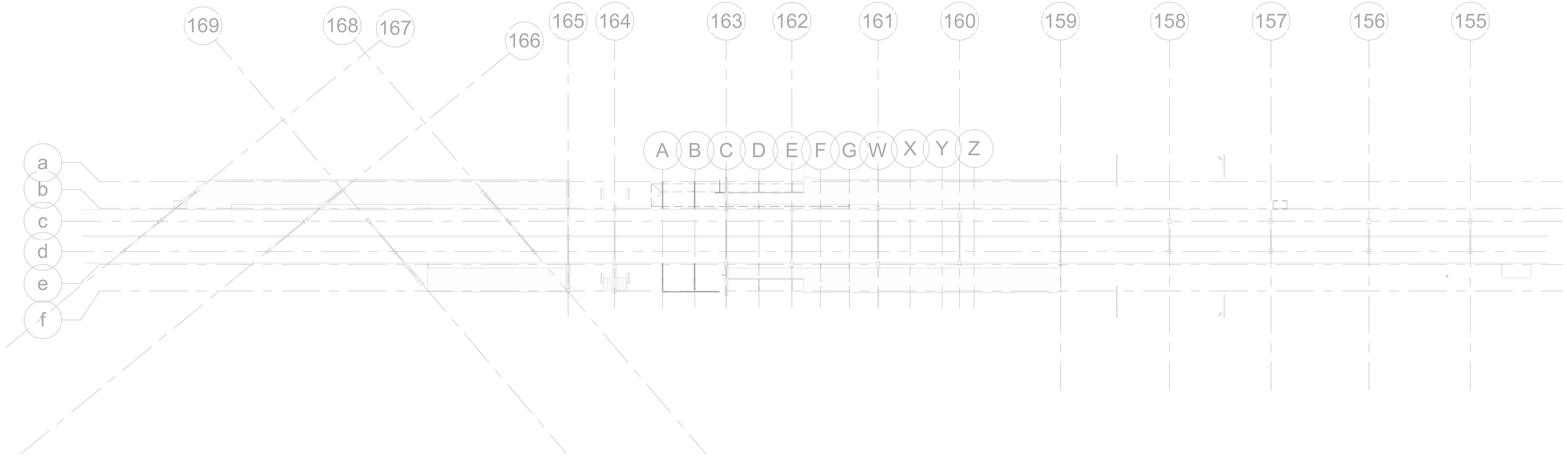
PLATFORM DEMOLITION POWER PLAN - SOUTH

LSCAL | ED-104
VOLUME: 1 OF 1

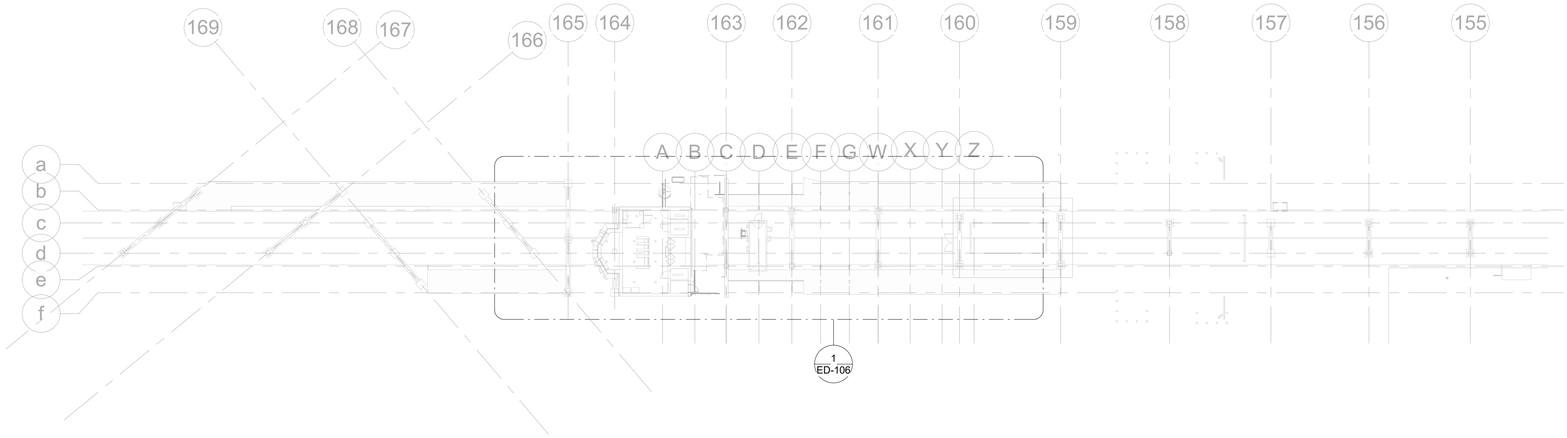
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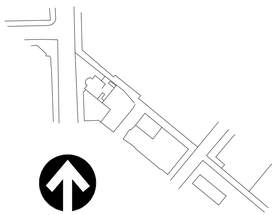
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1 ED-105 PLATFORM DEMO - LIGHTING PLAN OVERALL
SCALE: 1" = 30'-0"



2 ED-105 STATION DEMO - LIGHTING PLAN OVERALL
SCALE: 1" = 30'-0"



0 15' 30' 45' 60'
SCALE: 1"=30'-0"

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OVERALL STATION AND PLATFORM DEMOLITION LIGHTING PLANS

LSCAL | ED-105
VOLUME: 1 OF 1

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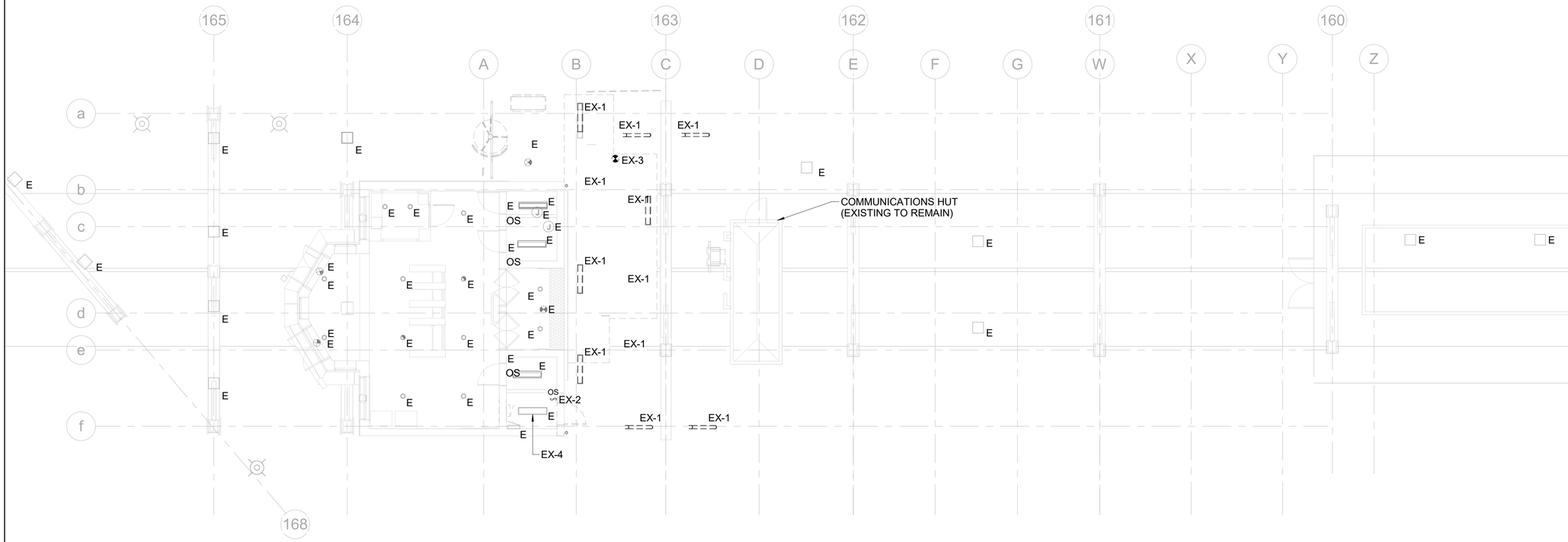
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GENERAL NOTES:

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KEY NOTES: (EX-#)

1. DISCONNECT AND REMOVE EXISTING LIGHTING FIXTURE, JUNCTION BOX AND ASSOCIATED SUPPORTS, CONDUIT AND WIRING.
2. DISCONNECT AND RELOCATE EXISTING WALL MOUNTED OCCUPANCY SENSOR LIGHT SWITCH, JUNCTION BOX AND ASSOCIATED CONDUIT AND WIRING. REFER TO PROPOSED STATION LIGHTING PLAN FOR NEW LOCATION.
3. DISCONNECT AND REMOVE EXISTING EXIT SIGN, JUNCTION BOX AND ASSOCIATED CONDUIT AND WIRING.
4. THE CONTRACTOR SHALL SALVAGE THE LIGHT FIXTURE FOR RE-INSTALLATION AND COIL THE WIRING TO THE NEAREST JUNCTION BOX FOR RE-FEED AFTER NEW GYP CEILING INSTALLATION.



1 ED-106 STATION DEMO - LIGHTING PLAN
SCALE: 1/8" = 1'-0"

0 4' 8' 16'
SCALE: 1/8"=1'-0"

NORTH

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STATION DEMOLITION LIGHTING PLAN

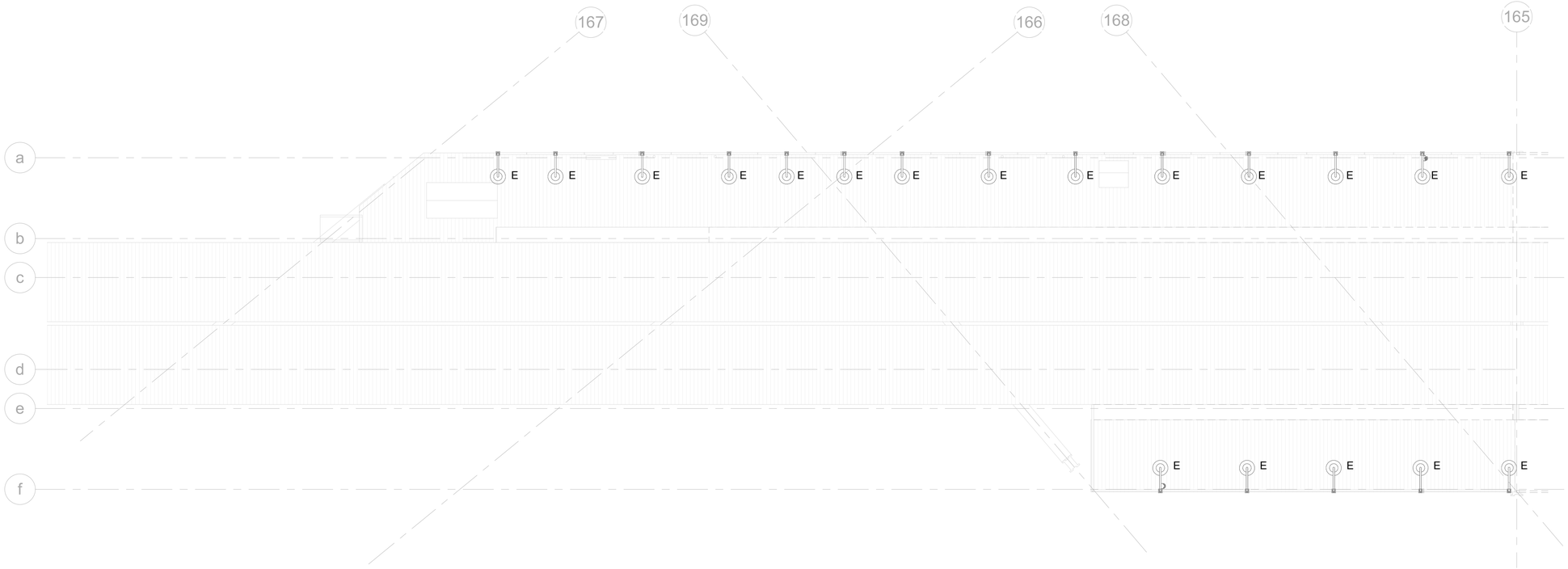
LSCAL | ED-106
VOLUME: 1 OF 1

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GENERAL NOTES:

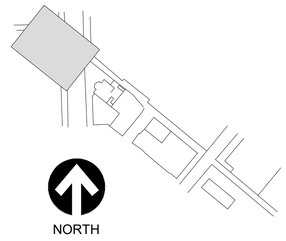
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1 ED-107 PLATFORM DEMO - LIGHTING PLAN NORTH
SCALE: 1/8" = 1'-0"

0 4' 8' 16'
SCALE: 1/8"=1'-0"



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PLATFORM DEMOLITION LIGHTING PLAN - NORTH

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VOLUME: 1 OF 1

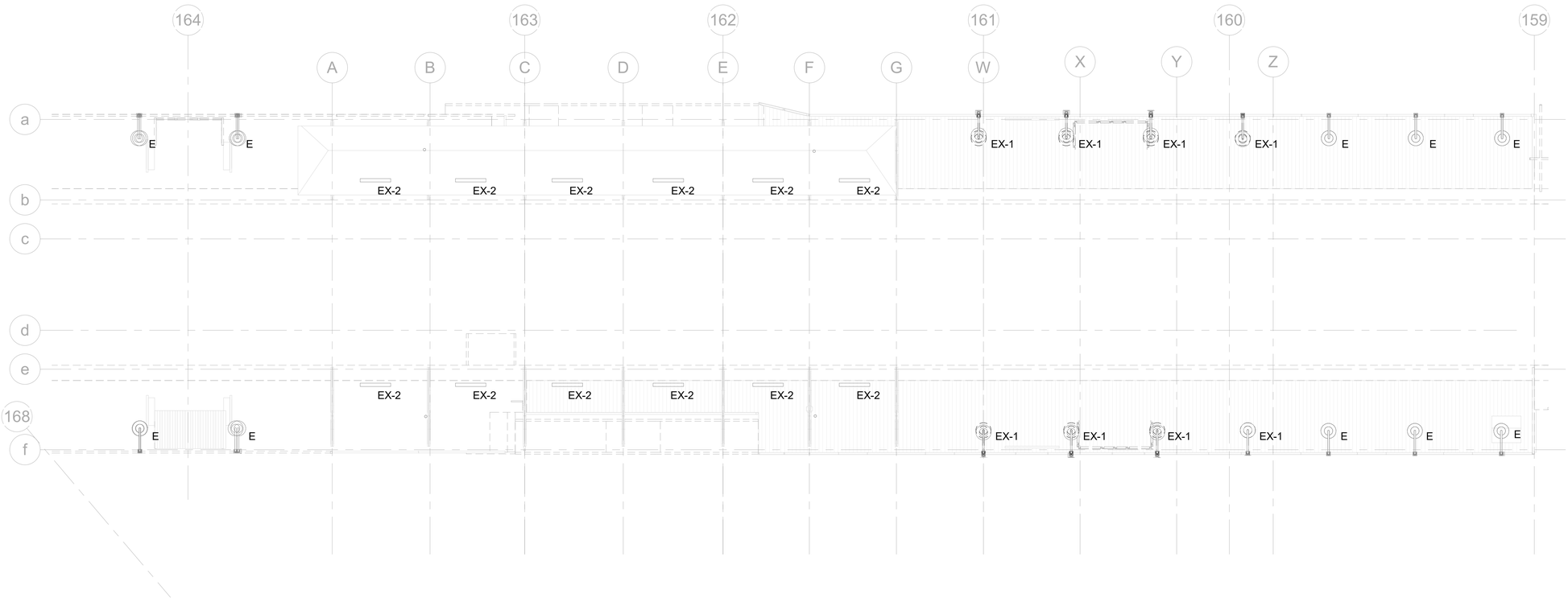
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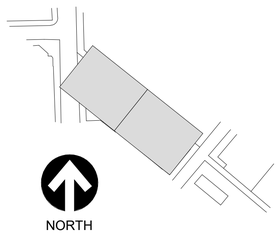
KEY NOTES: (EX-#)

1. DISCONNECT AND RELOCATE EXISTING LIGHTING POLE, FIXTURE AND JUNCTION BOX. REFER TO PROPOSED LIGHTING PLANS FOR NEW LOCATION AND CIRCUIT AS SHOWN. PROVIDE NEW JUNCTION BOX AND ASSOCIATED SUPPORTS, CONDUIT AND WIRING.
2. DISCONNECT AND REMOVE EXISTING LIGHTING FIXTURE, JUNCTION BOX AND ASSOCIATED SUPPORTS, CONDUIT AND WIRING.



1 ED-108 PLATFORM DEMO - LIGHTING PLAN CENTER
SCALE: 1/8" = 1'-0"

0 4' 8' 16'
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PLATFORM DEMOLITION LIGHTING PLAN - CENTER

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VOLUME: 1 OF 1

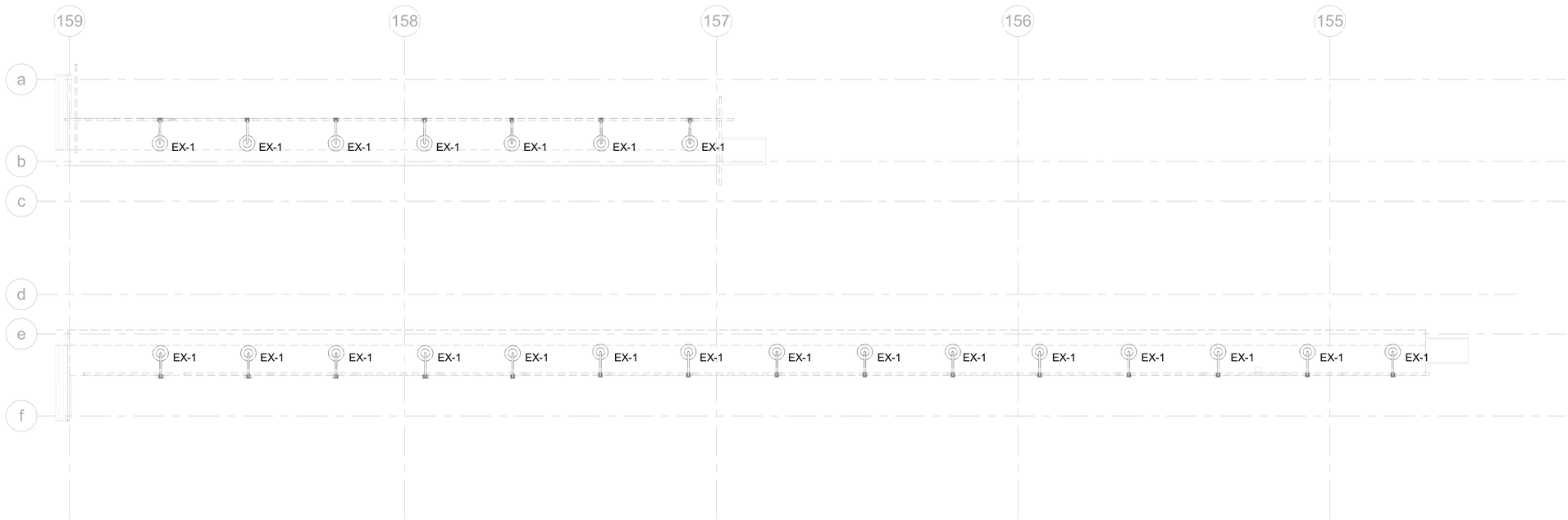
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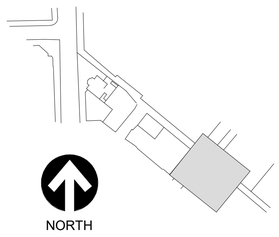
KEY NOTES: (EX-#)

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1 ED-109 PLATFORM DEMO - LIGHTING PLAN SOUTH
SCALE: 1/8" = 1'-0"

0 4' 8' 16'
SCALE: 1/8"=1'-0"



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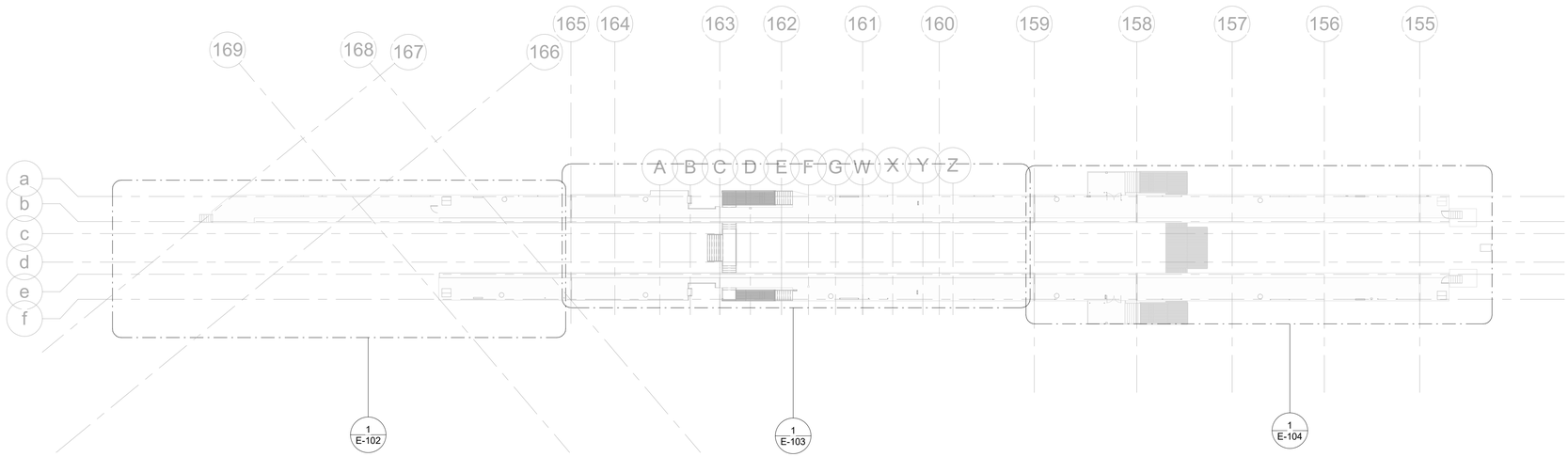
PLATFORM DEMOLITION LIGHTING PLAN - SOUTH

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VOLUME: 1 OF 1

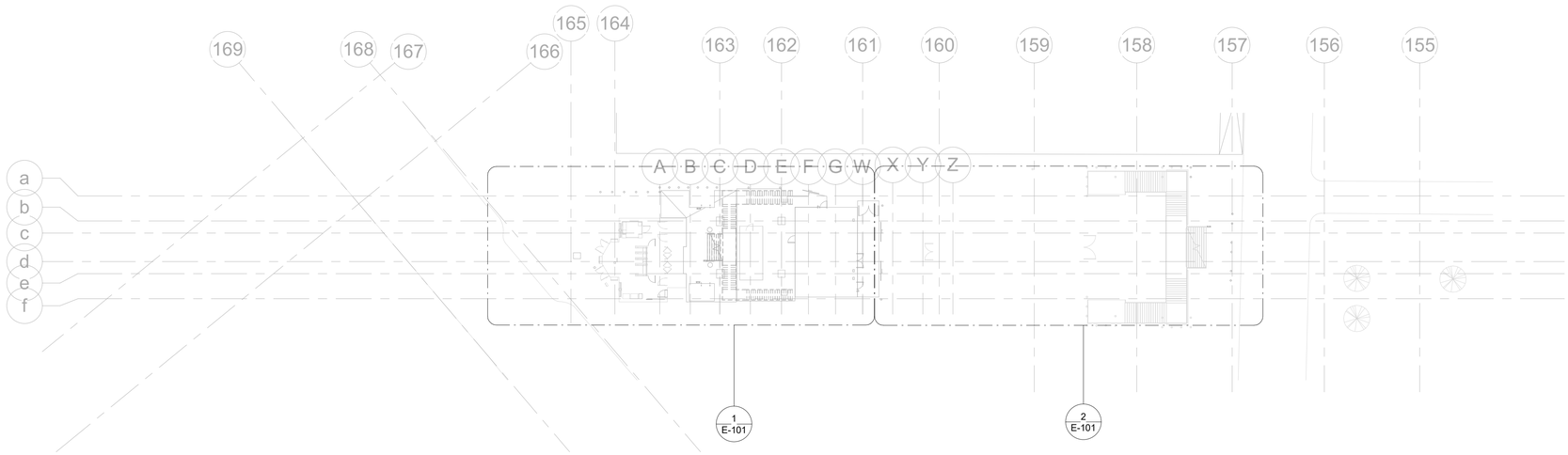
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GENERAL NOTES:

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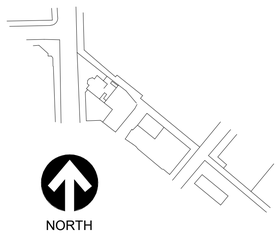


2 PLATFORM - POWER PLAN OVERALL
E-100 SCALE: 1" = 30'-0"



1 STATION - POWER PLAN OVERALL
E-100 SCALE: 1" = 30'-0"

0 15' 30' 45' 60'
SCALE: 1"=30'-0"



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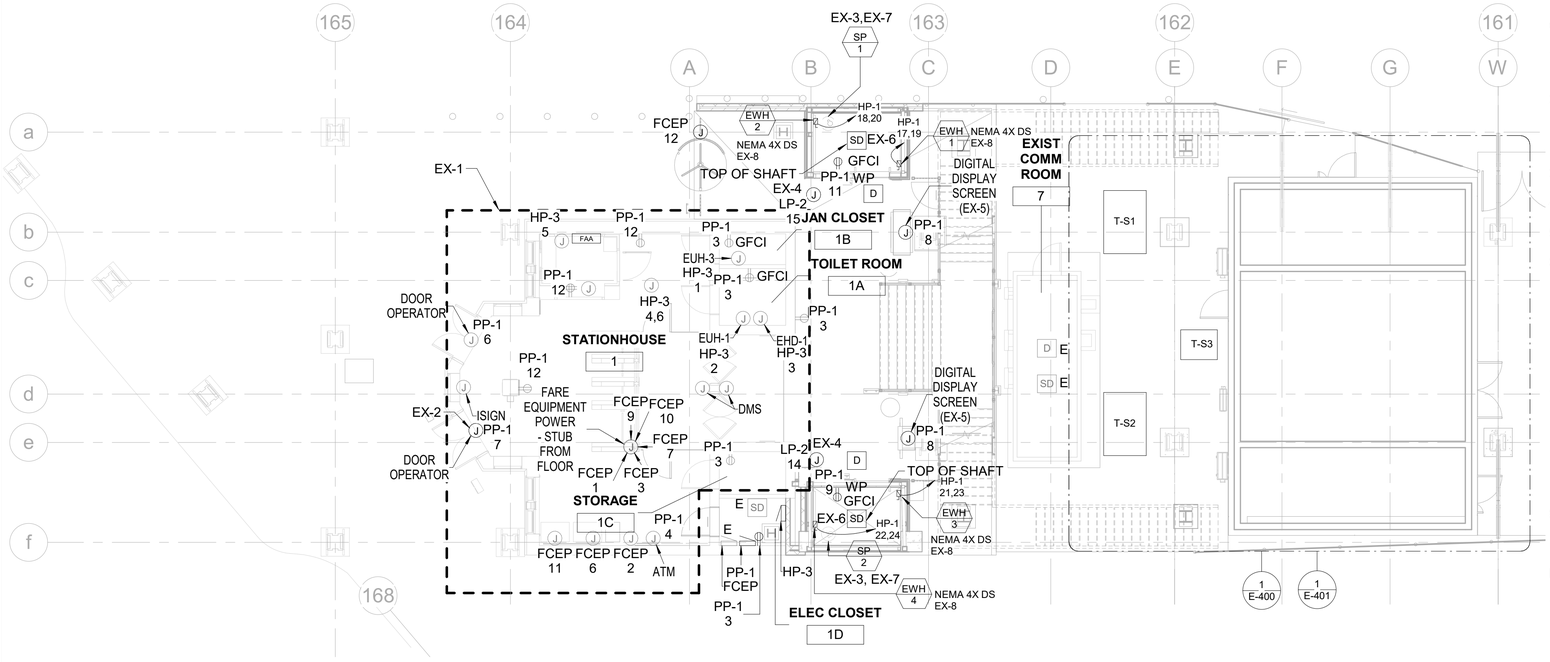
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IN CHARGE	I. COLLETTI
APPROVED BY	AG
CHECKED BY	AF/AG/PD
DESIGNED BY	AG
DRAWN BY	AS/AG

MARK	DATE	DESCRIPTION
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OVERALL STATION AND PLATFORM POWER PLANS

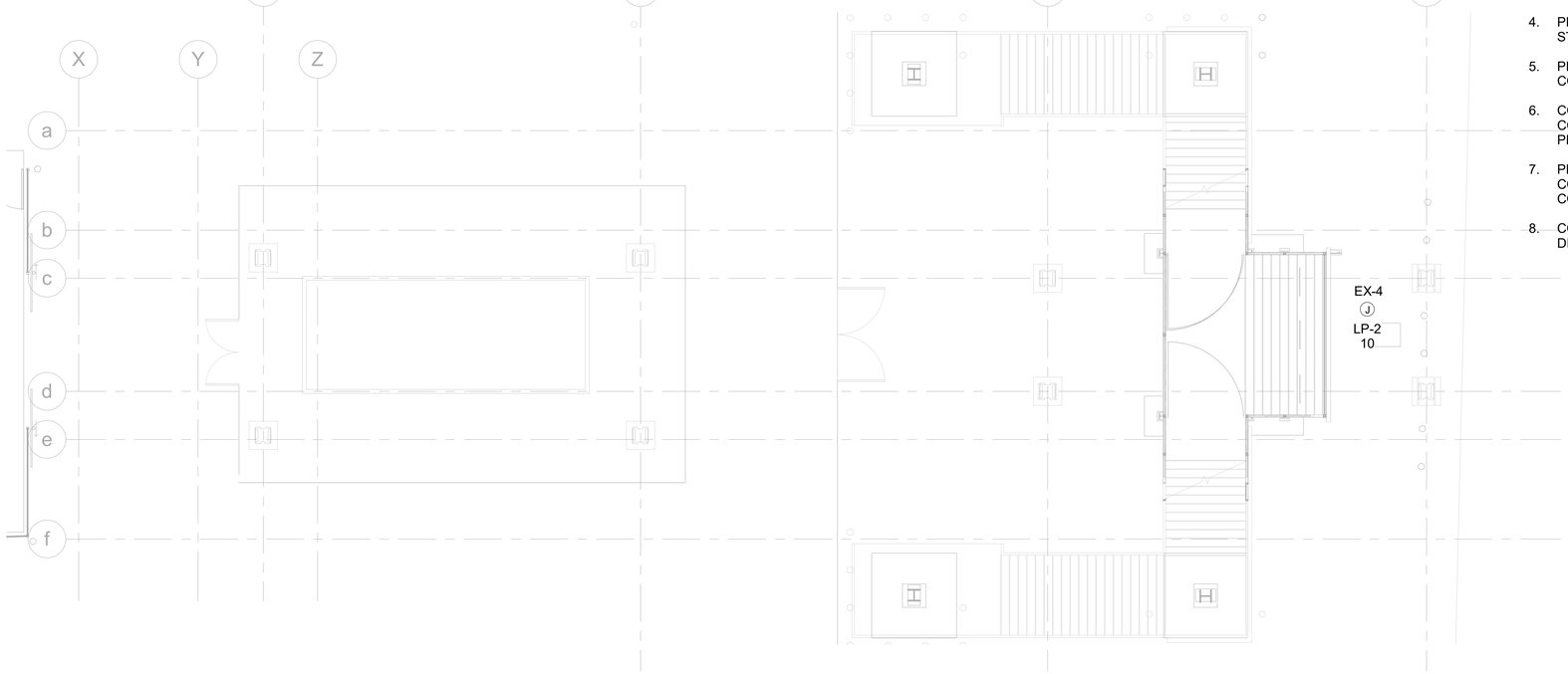
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VOLUME: 1 OF 1

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1 E-101 STATION - POWER PLAN - NORTH

SCALE: 1/8" = 1'-0"



2 E-101 STATION - POWER PLAN - SOUTH

SCALE: 1/8" = 1'-0"

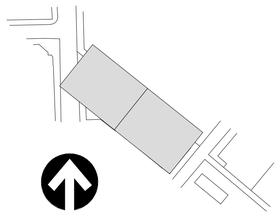
GENERAL NOTES:

1. REFER TO SHEET E-001 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS. REFER TO SHEET E-002 FOR ELECTRICAL NOTES.
2. ELEVATOR LOBBY, SHAFT AND MACHINE ROOM SMOKE AND HEAT DETECTORS SHALL BE INTEGRATED WITH THE ELEVATOR CONTROL PANEL(S). EXTERIOR MOUNTED SMOKE AND HEAT DETECTORS SHALL BE RATED FOR EXTREME TEMPERATURES.
3. REFER TO SHEETS E-609 AND E-610 ELECTRICAL SCHEDULES.
4. REFER TO SHEETS E-611, E-612 AND E-613 FOR PANEL SCHEDULES.
5. REFER TO SHEET E-602 FOR ELECTRICAL SINGLE LINE DIAGRAM.
6. CONDUIT PENETRATIONS THROUGH THE ROOF/CEILING OF THE STATIONHOUSE AND THE ELECTRICAL/ELEVATOR MACHINE BUILDING ARE NOT ALLOWED. IF A ROOF/CEILING PENETRATION IS DEEMED NECESSARY, CONTRACTOR MUST COORDINATE WITH CTA PM AND CTA ENGINEERING PRIOR TO INSTALLATION OF EQUIPMENT AND PENETRATION OF ROOF. PENETRATION DETAILS MUST BE SUBMITTED IN CORRESPONDING SHOP DRAWINGS FOR REVIEW AND APPROVAL BY CTA ARCHITECTURAL AND ELECTRICAL ENGINEERING.
7. ROUTE CABLE AND CONDUIT PARALLEL AND PERPENDICULAR TO BUILDING LINES IN A NEAT AND ORDERLY MANNER. WHERE LARGE GROUPS OF BRANCH CIRCUIT CONDUITS PENETRATE THE WALLS OF THE ELECTRICAL/ELEVATOR MACHINE BUILDING, THEY SHOULD BE LIMITED TO THE EAST SIDE OF THE BUILDING. CONDUIT LAYOUT PLANS MUST BE SUBMITTED IN CORRESPONDING SHOP DRAWINGS FOR REVIEW AND APPROVAL BY CTA ELECTRICAL ENGINEERING.
8. AVOID INTERFERENCE WITH THE OTHER TRADES AND EXISTING EQUIPMENT.

KEY NOTES: (EX-#)

1. EXISTING TO REMAIN UNLESS NOTED OTHERWISE. TRANSFER CIRCUIT FROM EXISTING PANEL LP-RP AND HP TO NEW PANEL PP-1 IN THE EXISTING ELECTRICAL CLOSET. PROVIDE ADDITIONAL CONDUIT AND WIRING AS NECESSARY.
2. THE CONTRACTOR SHALL PROVIDE AND INSTALL NEW POWER ASSISTED ADA DOOR OPERATOR AND ASSOCIATED PUSH BUTTON, JUNCTION BOX, CONDUIT AND WIRING.
3. SEE SHEET E-400 FOR LOCATION OF DISCONNECT SWITCH AND CIRCUITING INFORMATION. SEE MECHANICAL TRADE DRAWINGS FOR EQUIPMENT LOCATIONS.
4. PROVIDE POWER TO ILLUMINATED SIGNAGE SUSPENDED BELOW TRACK STRUCTURE. REFER TO ARCHITECTURAL SIGNAGE (AG) SHEETS.
5. PROVIDE ISOLATION FROM STRUCTURE WHEN MOUNTING DISPLAY TO COLUMN.
6. COORDINATE WITH ELEVATOR MANUFACTURER AND IF ELEVATOR CONTROL ELECTRONICS ARE LOCATED ABOVE THE ELEVATOR CAB, PROVIDE A SMOKE DETECTOR AT THE TOP OF THE ELEVATOR SHAFT.
7. PROVIDE SPECIAL WEATHERPROOF RECEPTACLE WITH WHILE-IN-USE COVER AND CONFIGURATION TO MATCH SUMP PUMP CORD AND PLUG. COORDINATE WITH PLUMBING CONTRACTOR FOR REQUIREMENTS.
8. COORDINATE MOUNTING HEIGHT AND LOCATION OF NEW PIT HEATER DISCONNECT SWITCHES WITH ELEVATOR INSTALLER.

0 4' 8' 16'
SCALE: 1/8"=1'-0"



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STATION PROPOSED POWER PLAN

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VOLUME: 1 OF 1

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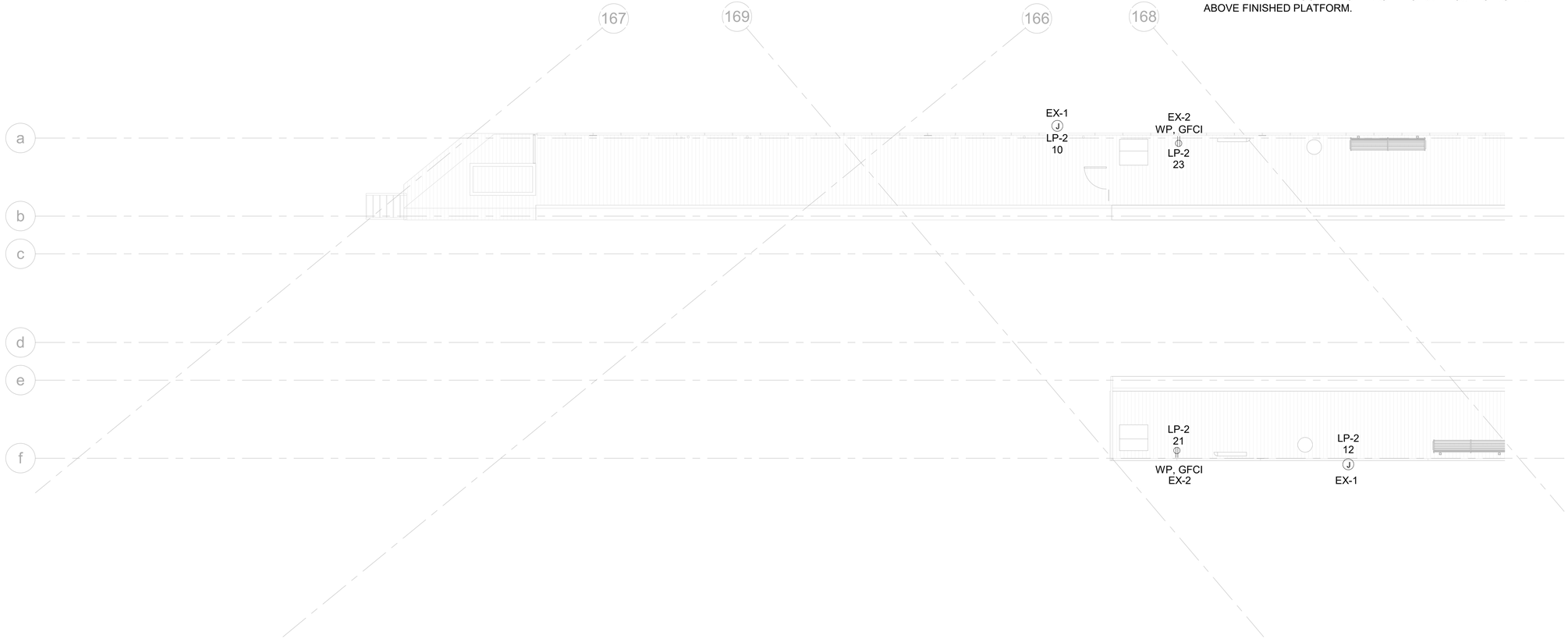
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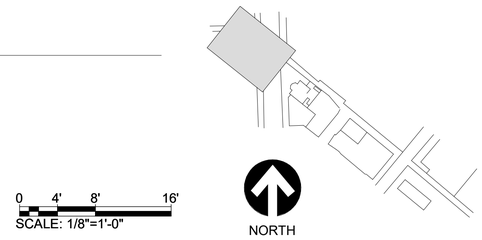
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3. REFER TO SHEETS E-611, E-612 AND E-613 FOR PANEL SCHEDULES.
4. ROUTE CABLE AND CONDUIT PARALLEL AND PERPENDICULAR TO BUILDING LINES IN A NEAT AND ORDERLY MANNER.
5. AVOID INTERFERENCE WITH THE OTHER TRADES AND EXISTING EQUIPMENT.
6. PROVIDE CONDUIT EXPANSION JOINTS AS NECESSARY.

KEY NOTES: (EX-#)

1. PROVIDE POWER TO ILLUMINATED SIGNAGE SUSPENDED BELOW TRACK STRUCTURE. REFER TO ARCHITECTURAL SIGNAGE (AG) SHEETS.
2. PROVIDE WEATHERPROOF, WHILE-IN-USE, LOCKABLE COVER PAINTED WHITE. MOUNT RECEPTACLE TO RAIL POST 18 INCHES ABOVE FINISHED PLATFORM.



1 / E-102 PLATFORM - POWER PLAN NORTH
SCALE: 1/8" = 1'-0"



0 4' 8' 16'
SCALE: 1/8"=1'-0"

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PLATFORM PROPOSED POWER PLAN - NORTH

LSCAL E-102
VOLUME: 1 OF 1

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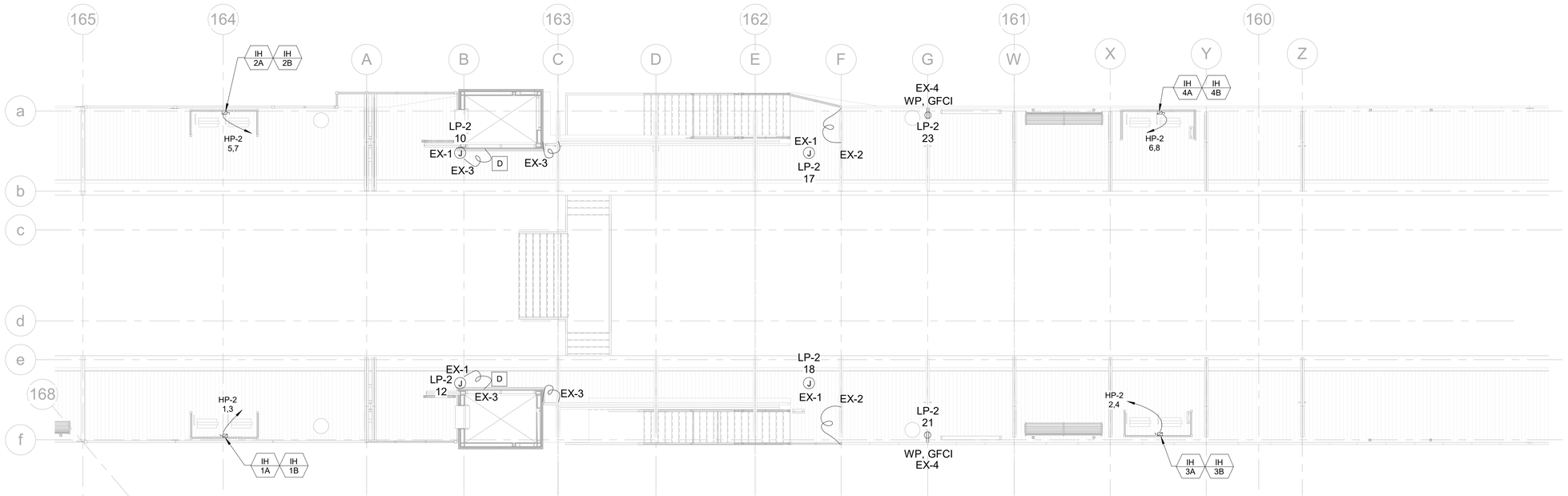
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2. REFER TO SHEETS E-611, E-612 AND E-613 FOR PANEL SCHEDULES.
3. EXISTING ELECTRICAL DEVICES THAT WILL BE IMPACTED BY ELEVATOR AND PLATFORM MODIFICATIONS WILL BE REPLACED OR RELOCATED.
4. EXISTING ELECTRICAL DEVICES TO REMAIN WILL BE REFED FROM NEW ELECTRICAL PANELS IN NEW ELECTRICAL BUILDING.
5. CONNECT EXISTING, RELOCATED AND NEW INFRARED HEATERS TO NEW PANEL HP-1 IN NEW ELECTRICAL BUILDING. REUSE EXISTING CONDUIT WHERE POSSIBLE. PULL NEW WIRING FROM PANEL TO DEVICES.
6. ROUTE CABLE AND CONDUIT PARALLEL AND PERPENDICULAR TO BUILDING LINES IN A NEAT AND ORDERLY MANNER.
7. AVOID INTERFERENCE WITH THE OTHER TRADES AND EXISTING EQUIPMENT.
8. PROVIDE CONDUIT EXPANSION JOINTS AS NECESSARY.

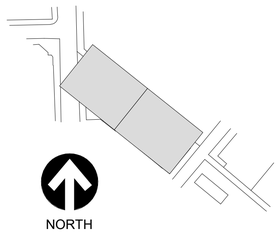
KEY NOTES: (EX-#)

1. PROVIDE POWER TO ILLUMINATED SIGNAGE SUSPENDED FROM CANOPY STRUCTURE. REFER TO ARCHITECTURAL SIGNAGE (AG) SHEETS.
2. INSTALL #1/0 AWG BARE COPPER STRANDED BONDING JUMPER FROM STAIR STEEL TO PLATFORM STEEL USING EXOTHERMIC WELDS.
3. INSTALL #1/0 AWG BARE COPPER STRANDED BONDING JUMPER FROM ELEVATOR STEEL TO PLATFORM STEEL USING EXOTHERMIC WELDS.
4. PROVIDE WEATHERPROOF, WHILE-IN-USE, LOCKABLE COVER PAINTED WHITE. MOUNT RECEPTACLE TO RAIL POST 18 INCHES ABOVE FINISHED PLATFORM.



1 E-103 PLATFORM - POWER PLAN CENTER
SCALE: 1/8" = 1'-0"

0 4' 8' 16'
SCALE: 1/8"=1'-0"



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PLATFORM PROPOSED POWER PLAN - CENTER

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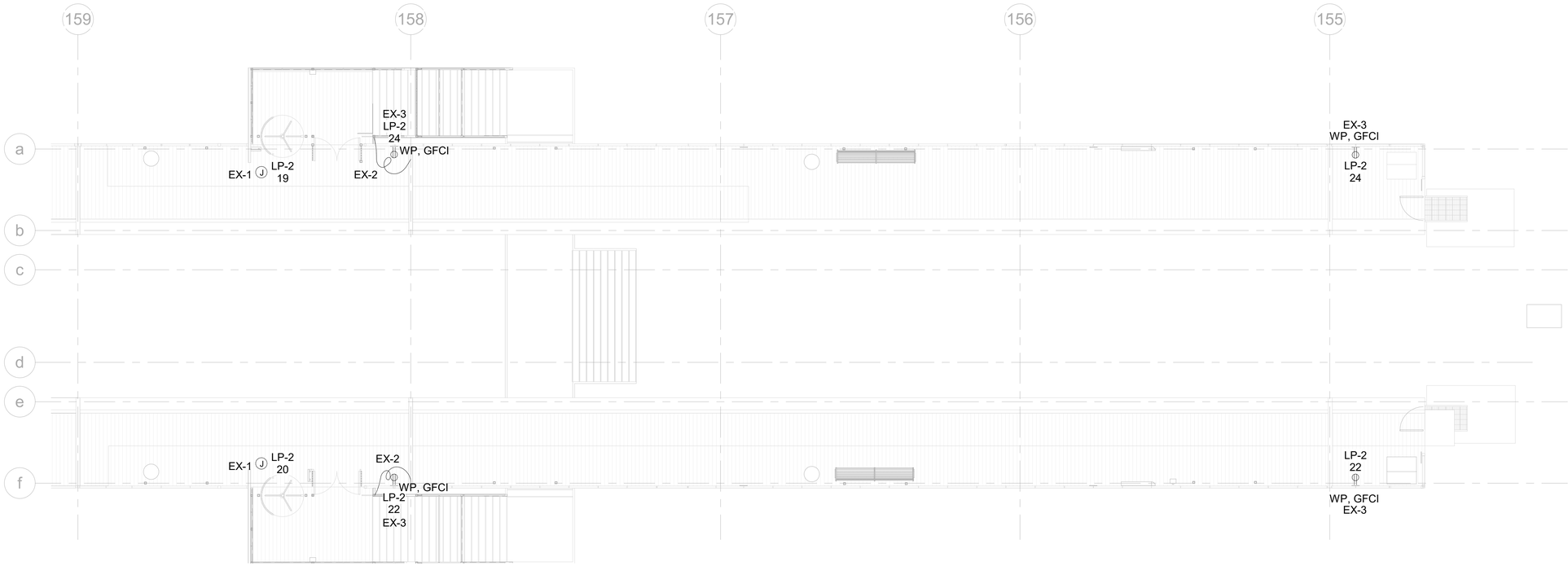
VOLUME: 1 OF 1

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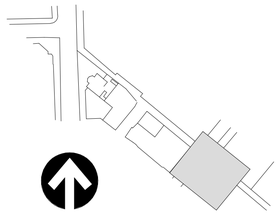
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3. PROVIDE WEATHERPROOF, WHILE-IN-USE, LOCKABLE COVER PAINTED WHITE. MOUNT RECEPTACLE TO RAIL POST 18 INCHES ABOVE FINISHED PLATFORM.



1 / E-104 PLATFORM - POWER PLAN SOUTH
SCALE: 1/8" = 1'-0"

0 4' 8' 16'
SCALE: 1/8"=1'-0"



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PLATFORM PROPOSED POWER PLAN - SOUTH

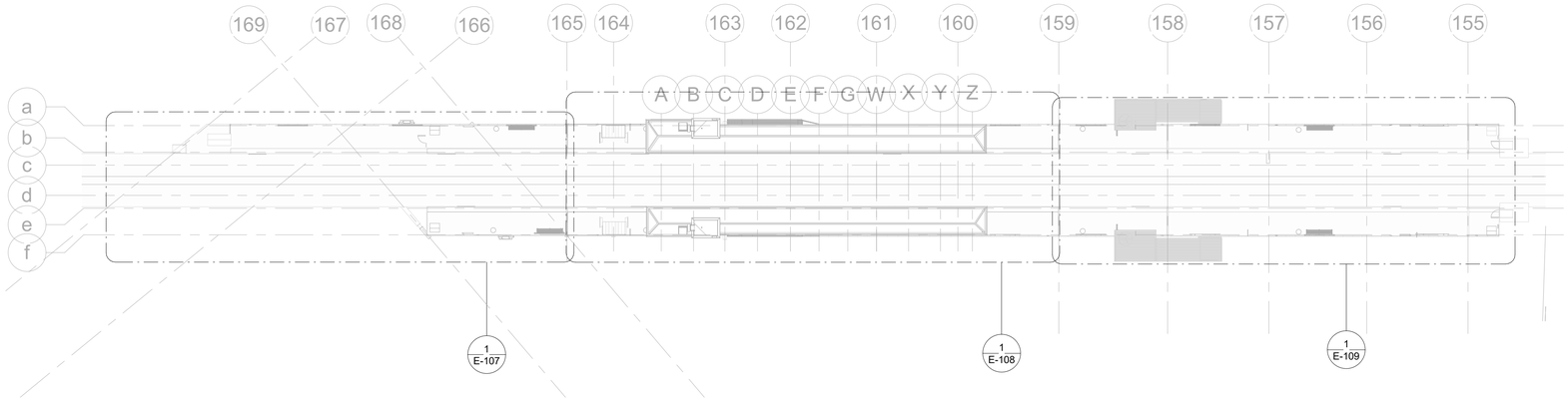
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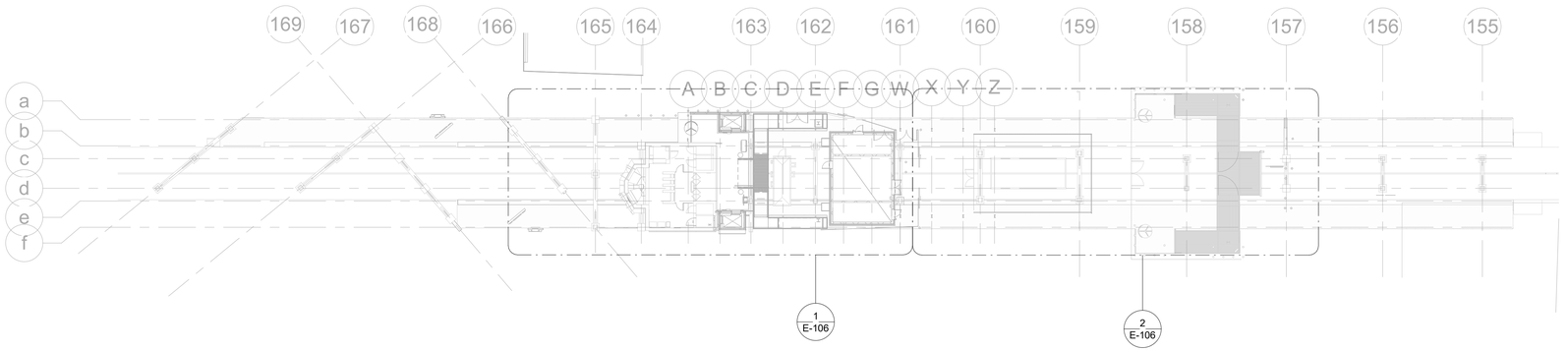
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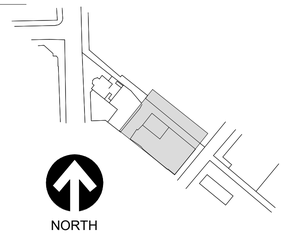


1 / E-105 PLATFORM - LIGHTING PLAN OVERALL
SCALE: 1" = 30'-0"



2 / E-105 STATION - LIGHTING PLAN OVERALL
SCALE: 1" = 30'-0"

0 15' 30' 45' 60'
SCALE: 1"=30'-0"



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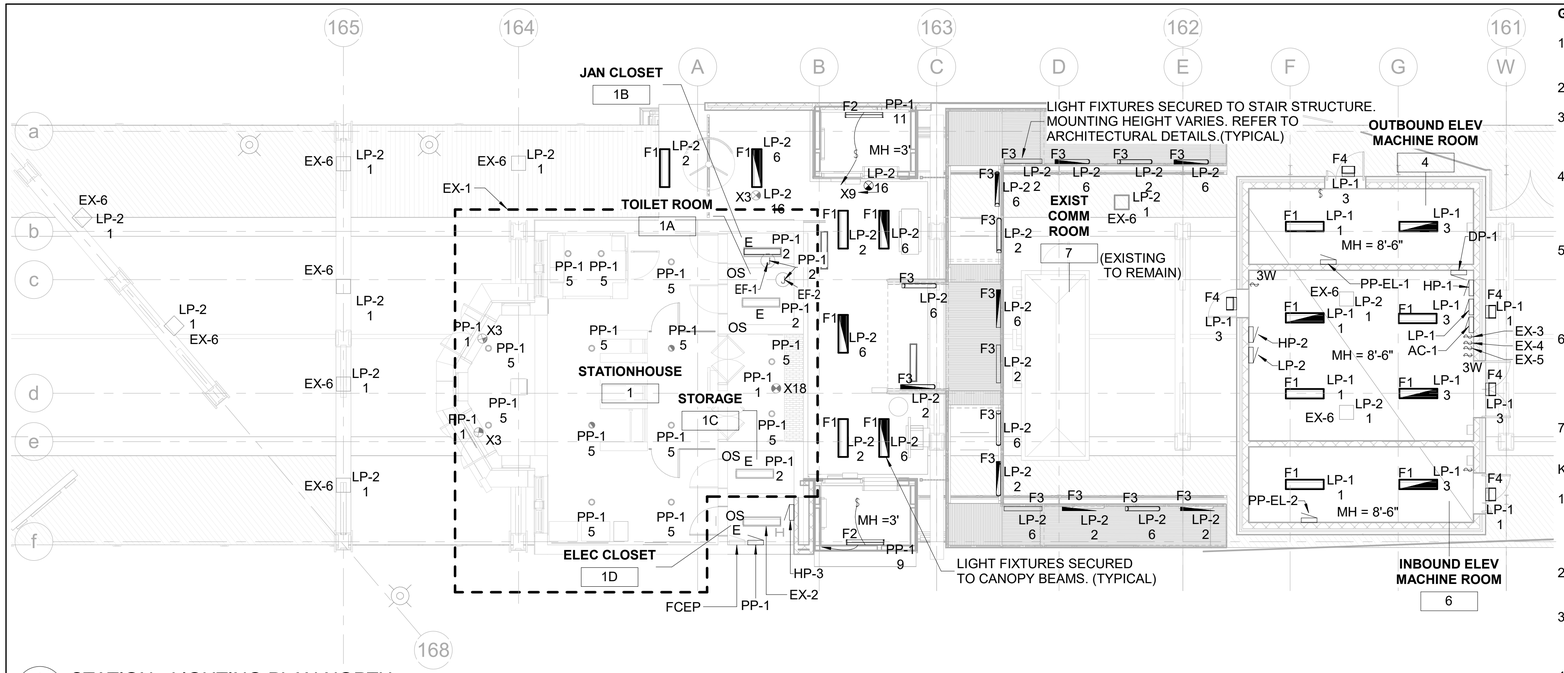
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OVERALL STATION AND PLATFORM LIGHTING PLANS

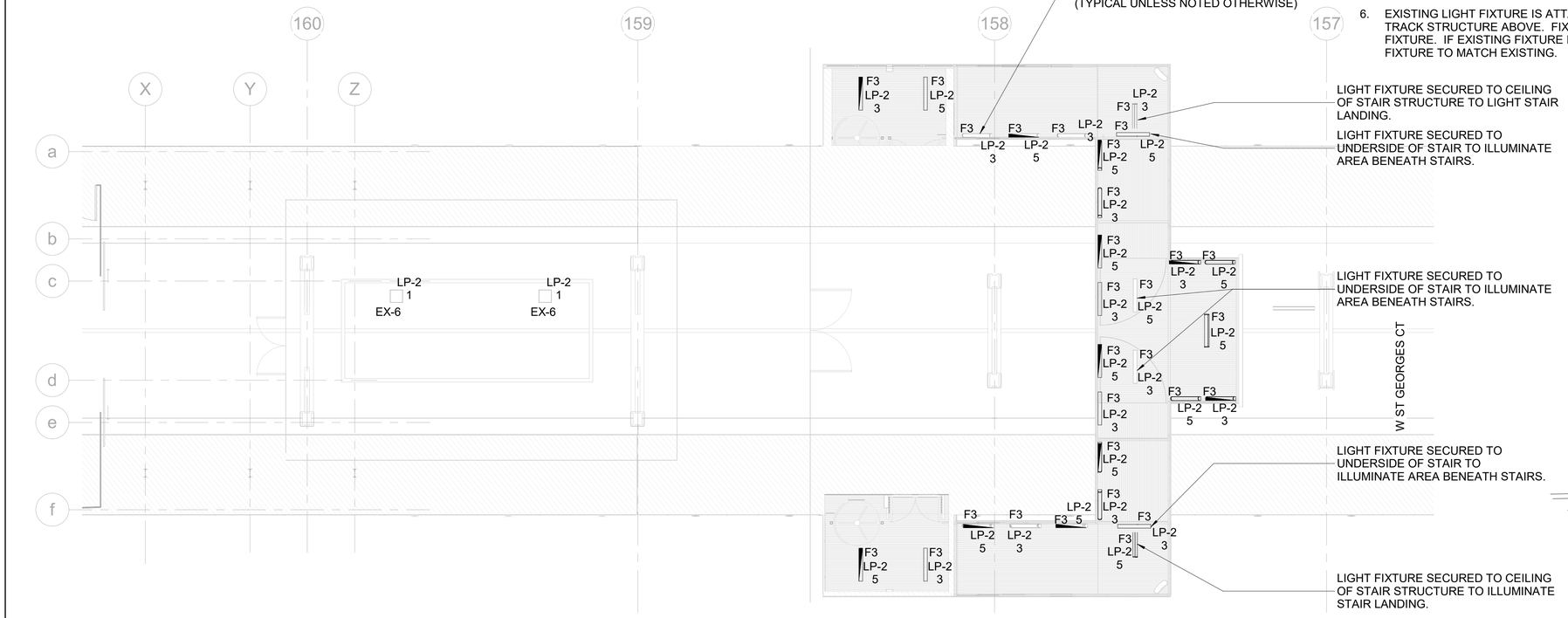
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VOLUME: 1 OF 1

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1 E-106 STATION - LIGHTING PLAN NORTH
SCALE: 1/8" = 1'-0"



2 E-106 STATION - LIGHTING PLAN SOUTH
SCALE: 1/8" = 1'-0"

0 4' 8' 16'
SCALE: 1/8"=1'-0"

GENERAL NOTES:

1. REFER TO SHEET E-001 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS. REFER TO SHEET E-002 FOR ELECTRICAL NOTES.
2. REFER TO SHEET E-610 FOR LIGHTING FIXTURE SCHEDULE.
3. LIGHTING FIXTURES ARE POWERED FROM NEW PANELS AS INDICATED IN FLOOR PLAN. REFER TO SHEETS E-611, E-612 AND E-613 FOR PANEL SCHEDULES.
4. LIGHTING FIXTURES AND ASSOCIATED CONDUITS AND BOXES MOUNTED TO THE STAIRS SHALL BE ISOLATED FROM THE STAIRS. STAIRS ARE EARTH GROUND AND FEED TO STAIR LIGHTING IS STATION GROUND. REFER TO SHEET E-110 FOR GROUNDING PLANS.
5. LIGHT FIXTURES ARE SHOWN FOR DIAGRAMMATIC PURPOSES. PROPER COORDINATION WITH LIGHTING MANUFACTURER IS REQUIRED FOR FINAL LOCATION OF LIGHT FIXTURES TO MEET LIGHTING LEVELS PER CTA DESIGN CRITERIA, CHAPTER 10 AND AS APPROVED BY CTA ELECTRICAL ENGINEER.
6. ROUTE CABLE AND CONDUIT PARALLEL AND PERPENDICULAR TO BUILDING LINES IN A NEAT AND ORDERLY MANNER. WHERE LARGE GROUPS OF BRANCH CIRCUIT CONDUITS PENETRATE THE WALLS OF THE ELECTRICAL/ELEVATOR MACHINE BUILDING, THEY SHOULD BE LIMITED TO THE EAST SIDE OF THE BUILDING.
7. AVOID INTERFERENCE WITH THE OTHER TRADES AND EXISTING EQUIPMENT.

KEY NOTES: (EX-#)

1. EXISTING TO REMAIN UNLESS NOTED OTHERWISE. TRANSFER CIRCUIT FROM EXISTING PANEL LP-RP, LOCATED IN EXISTING ELECTRICAL CABINETS BENEATH THE STAIRS, TO NEW PANEL LP-1. PROVIDE ADDITIONAL CONDUIT AND WIRING AS NECESSARY.
2. THE CONTRACTOR SHALL REINSTALL SALVAGED LIGHT FIXTURE AFTER NEW GYP CEILING INSTALLATION AND FEED THROUGH EXISTING CIRCUIT.
3. PROVIDE LIGHTING CONTACTOR AND MASTER LIGHTING CONTROL SWITCH TO CONTROL EXISTING STATION HOUSE LIGHTING AND PLAZA LIGHTING.
4. PROVIDE LIGHT SWITCH TO CONTROL 50% OF STATION HOUSE STAIR LIGHTING.
5. PROVIDE LIGHT SWITCH TO CONTROL 50% OF ST GEORGES CT STAIR LIGHTING.
6. EXISTING LIGHT FIXTURE IS ATTACHED TO THE UNDERSIDE OF THE TRACK STRUCTURE ABOVE. FIXTURE TO REMAIN. CLEAN AND RELAMP FIXTURE. IF EXISTING FIXTURE IS NOT OPERATIONAL, PROVIDE NEW FIXTURE TO MATCH EXISTING.

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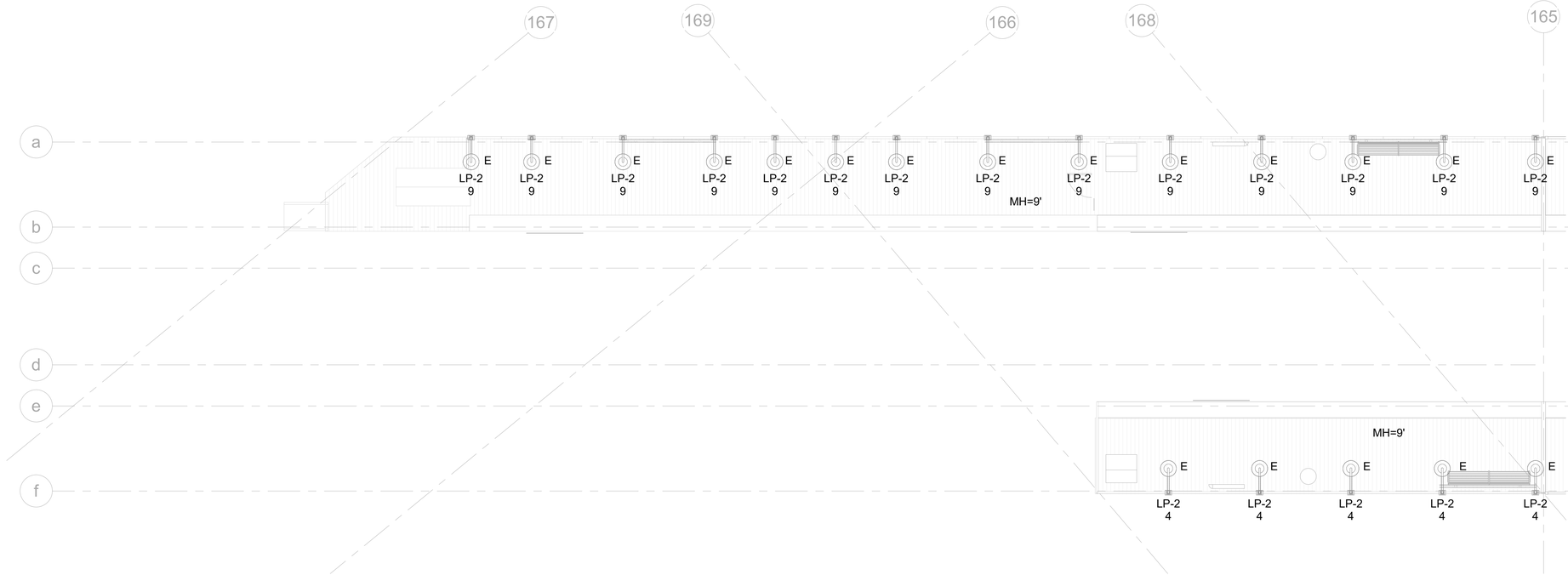
STATION PROPOSED LIGHTING PLAN

LSCAL | E-106
VOLUME: 1 OF 1

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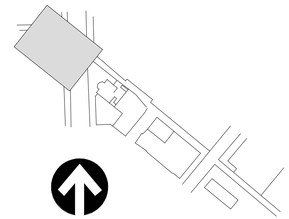
GENERAL NOTES:

1. REFER TO SHEET E-001 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS. REFER TO SHEET E-002 FOR ELECTRICAL NOTES.
2. EXISTING LIGHTING TO REMAIN. PROVIDE NEW 2-#10 & 1-#12 GRD IN 3/4" RGS CONDUIT BACK TO NEW PANEL LP-2. VOLTAGE DROP SHALL NOT EXCEED 2%.
3. REFER TO SHEET E-610 FOR LIGHTING FIXTURE SCHEDULE.
4. LIGHTING FIXTURES ARE POWERED FROM NEW PANELS AS INDICATED IN FLOOR PLAN. REFER TO SHEETS E-611, E-612 AND E-613 FOR PANEL SCHEDULES.
5. REFER TO SHEET E-604 FOR PLATFORM LIGHTING CONTROL DETAIL.
6. FOR ALL PLATFORM LIGHTING BRANCH CIRCUITS, PROVIDE 2-#10 & 1-#12 GRD IN 3/4" RGS CONDUIT. VOLTAGE DROP SHALL NOT EXCEED 2%.
7. LIGHT FIXTURES ARE SHOWN FOR DIAGRAMMATIC PURPOSES. PROPER COORDINATION WITH LIGHTING MANUFACTURER IS REQUIRED FOR FINAL LOCATION OF LIGHT FIXTURES TO MEET LIGHTING LEVELS PER CTA DESIGN CRITERIA, CHAPTER 10 AND AS APPROVED BY CTA ELECTRICAL ENGINEER.
8. REFER TO TRACK STRUCTURAL DRAWINGS FOR LIGHT POLE LOCATIONS.
9. ROUTE CABLE AND CONDUIT PARALLEL AND PERPENDICULAR TO BUILDING LINES IN A NEAT AND ORDERLY MANNER.
10. AVOID INTERFERENCE WITH THE OTHER TRADES AND EXISTING EQUIPMENT.
11. PROVIDE CONDUIT EXPANSION JOINTS AS NECESSARY.
12. FOR LIGHT FIXTURES LOCATED AT THE STATION PLATFORM, LENSES AND/OR COVERS MUST OPEN AWAY FROM TRACKS.



1 E-107 PLATFORM - LIGHTING PLAN NORTH
SCALE: 1/8" = 1'-0"

0 4' 8' 16'
SCALE: 1/8"=1'-0"



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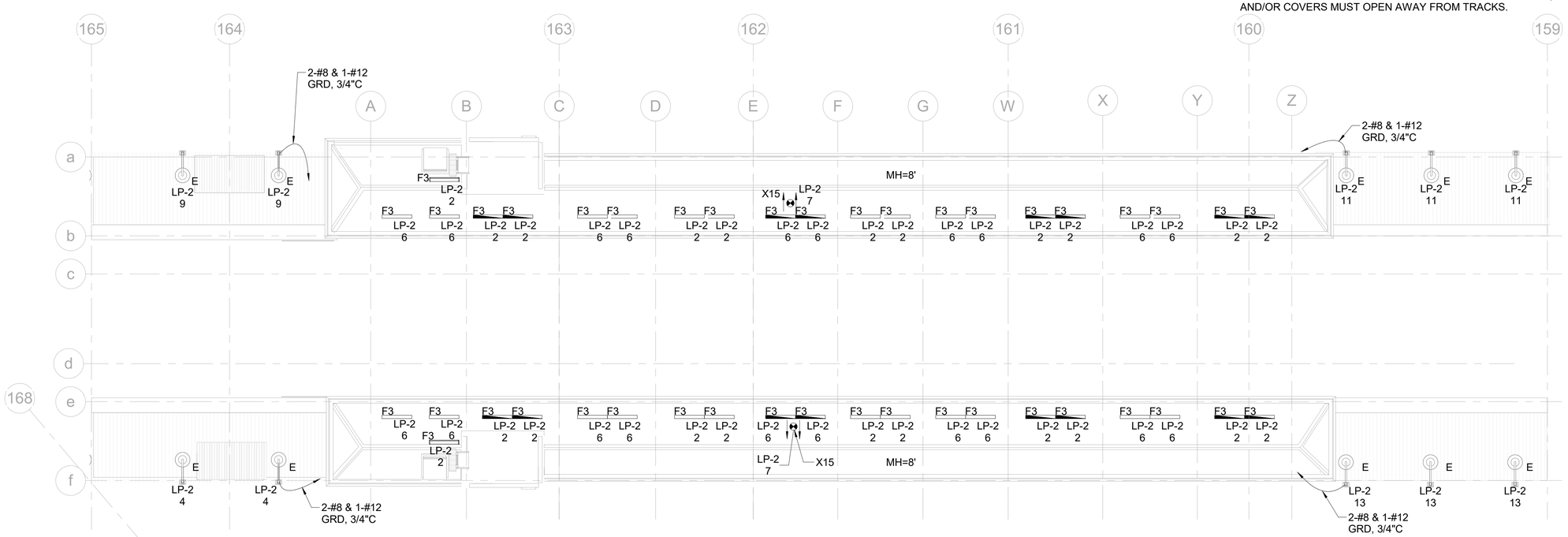
PLATFORM PROPOSED LIGHTING PLAN - NORTH

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GENERAL NOTES:

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2. EXISTING LIGHTING TO REMAIN. PROVIDE NEW 2-#10 & 1-#12 GRD IN 3/4" RGS CONDUIT BACK TO NEW PANEL LP-2. VOLTAGE DROP SHALL NOT EXCEED 2%.
3. REFER TO SHEET E-610 FOR LIGHTING FIXTURE SCHEDULE.
4. LIGHTING FIXTURES ARE POWERED FROM PANELS AS INDICATED IN FLOOR PLAN. REFER TO SHEETS E-611, E-612 AND E-613 FOR PANEL SCHEDULES.
5. REFER TO SHEET E-604 FOR PLATFORM LIGHTING CONTROL DETAIL.
6. LIGHT FIXTURES ARE SHOWN FOR DIAGRAMMATIC PURPOSES. PROPER COORDINATION WITH LIGHTING MANUFACTURER IS REQUIRED FOR FINAL LOCATION OF LIGHT FIXTURES TO MEET LIGHTING LEVELS PER CTA DESIGN CRITERIA, CHAPTER 10 AND AS APPROVED BY CTA ELECTRICAL ENGINEER.
7. REFER TO TRACK STRUCTURAL DRAWINGS FOR LIGHT POLE LOCATIONS.
8. ROUTE CABLE AND CONDUIT PARALLEL AND PERPENDICULAR TO BUILDING LINES IN A NEAT AND ORDERLY MANNER.
9. AVOID INTERFERENCE WITH THE OTHER TRADES AND EXISTING EQUIPMENT.
10. FIELD COORDINATE LOCATIONS OF CONSTRUCTION EXPANSION JOINTS AND PROVIDE CONDUIT EXPANSION FITTINGS AS REQUIRED PER SPECIFICATIONS.
11. FOR LIGHT FIXTURES LOCATED AT THE STATION PLATFORM, LENSES AND/OR COVERS MUST OPEN AWAY FROM TRACKS.



1 E-108 PLATFORM - LIGHTING PLAN CENTER
SCALE: 1/8" = 1'-0"

0 4' 8' 16'
SCALE: 1/8"=1'-0"

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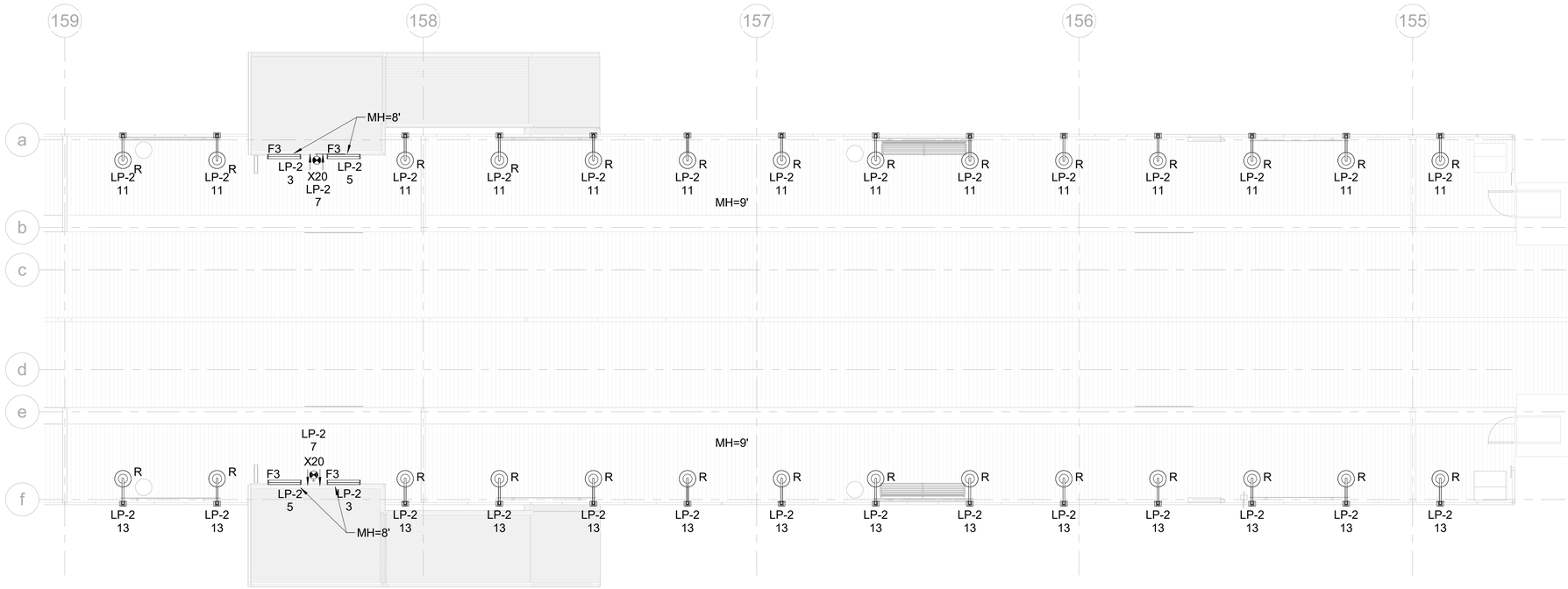
PLATFORM PROPOSED LIGHTING PLAN - CENTER

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VOLUME: 1 OF 1

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GENERAL NOTES:

1. REFER TO SHEET E-001 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS. REFER TO SHEET E-002 FOR ELECTRICAL NOTES.
2. RELOCATE EXISTING LIGHTING FIXTURE AS INDICATED IN FLOOR PLAN. PROVIDE NEW 2-#10 & 1-#12 GRD IN 3/4" RGS CONDUIT BACK TO NEW PANEL LP-2. VOLTAGE DROP SHALL NOT EXCEED 2%.
3. REFER TO SHEET E-610 FOR LIGHTING FIXTURE SCHEDULE.
4. LIGHTING FIXTURES ARE POWERED FROM PANELS AS INDICATED IN FLOOR PLAN. REFER TO SHEETS E-611, E-612 AND E-613 FOR PANEL SCHEDULES.
5. REFER TO SHEET E-604 FOR PLATFORM LIGHTING CONTROL DETAIL.
6. MOUNTING HEIGHT FOR RELOCATED PLATFORM POLE LIGHTS SHALL MATCH EXISTING.
7. LIGHT FIXTURES ARE SHOWN FOR DIAGRAMMATIC PURPOSES. PROPER COORDINATION WITH LIGHTING MANUFACTURER IS REQUIRED FOR FINAL LOCATION OF LIGHT FIXTURES TO MEET LIGHTING LEVELS PER CTA DESIGN CRITERIA, CHAPTER 10 AND AS APPROVED BY CTA ELECTRICAL ENGINEER.
8. REFER TO TRACK STRUCTURAL DRAWINGS FOR LIGHT POLE LOCATIONS.
9. ROUTE CABLE AND CONDUIT PARALLEL AND PERPENDICULAR TO BUILDING LINES IN A NEAT AND ORDERLY MANNER.
10. AVOID INTERFERENCE WITH THE OTHER TRADES AND EXISTING EQUIPMENT.
11. PROVIDE CONDUIT EXPANSION JOINTS AS NECESSARY.
12. FOR LIGHT FIXTURES LOCATED AT THE STATION PLATFORM, LENSES AND/OR COVERS MUST OPEN AWAY FROM TRACKS.



1 E-109 PLATFORM - LIGHTING PLAN SOUTH
SCALE: 1/8" = 1'-0"

0 4' 8' 16'
SCALE: 1/8"=1'-0"

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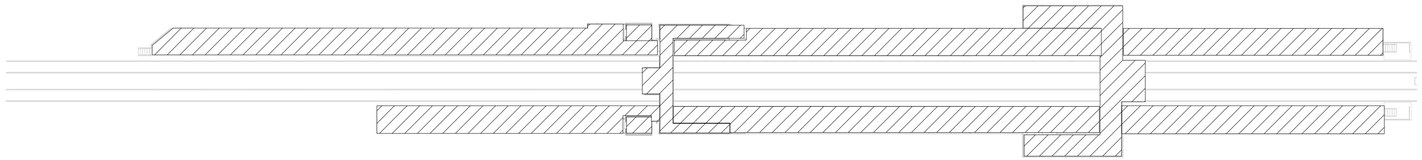
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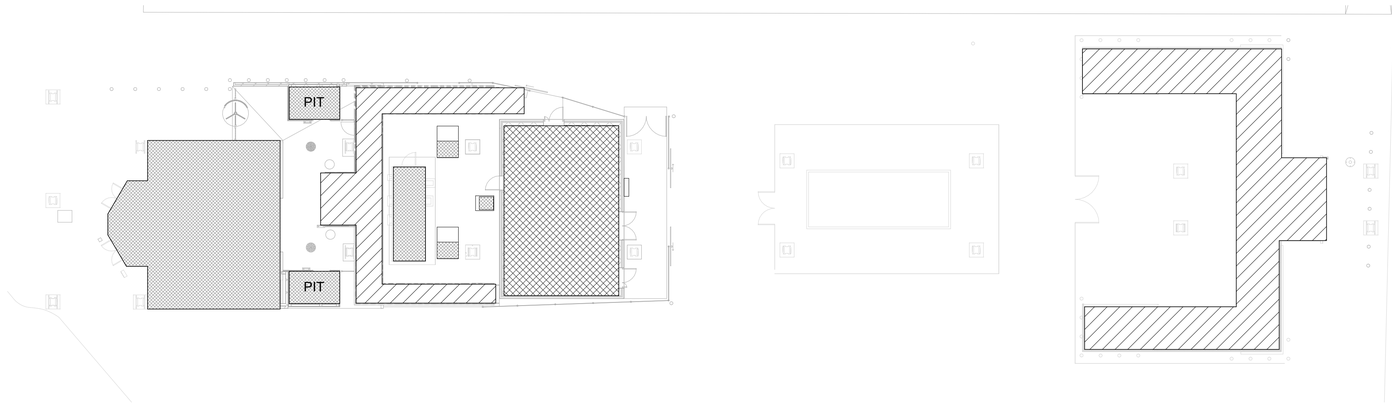
PLATFORM PROPOSED LIGHTING PLAN - SOUTH

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2 E-110 PLATFORM - GROUNDING PLAN
SCALE: 1/32" = 1'-0"



1 E-110 STATION - GROUNDING PLAN
SCALE: 1/16" = 1'-0"

GENERAL NOTES:

1. REFER TO SHEET E-001 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS. REFER TO SHEET E-002 FOR ELECTRICAL NOTES.
2. ELECTRICAL EQUIPMENT AT PLATFORM GROUND SHOULD BE ISOLATED FROM THE BUILDING THAT IS EARTH GROUNDED. PROVIDE FIBERGLASS UNISTRUT FOR ALL PANELS, CONDUIT, JUNCTION BOXES AND ELECTRICAL CABINETS.
3. ALL CONDUIT PENETRATING WALLS OR FLOORS AT DIFFERENT POTENTIALS SHALL HAVE ISOLATION FITTINGS.
4. ALL UNDERGROUND CONDUIT SHALL BE NON-METALLIC.
5. REFER TO SHEETS G-009 THROUGH G-018 FOR ADDITIONAL GROUNDING AND ISOLATION INFORMATION.

LEGEND:

- BUILDING STRUCTURE IS EARTH GROUNDED AND ELECTRICAL EQUIPMENT IS AT PLATFORM GROUND.
- BUILDING STRUCTURE IS EARTH GROUNDED AND ELECTRICAL EQUIPMENT IS AT EARTH GROUND.
- BUILDING STRUCTURE IS PLATFORM GROUNDED AND ELECTRICAL EQUIPMENT IS AT PLATFORM GROUND.

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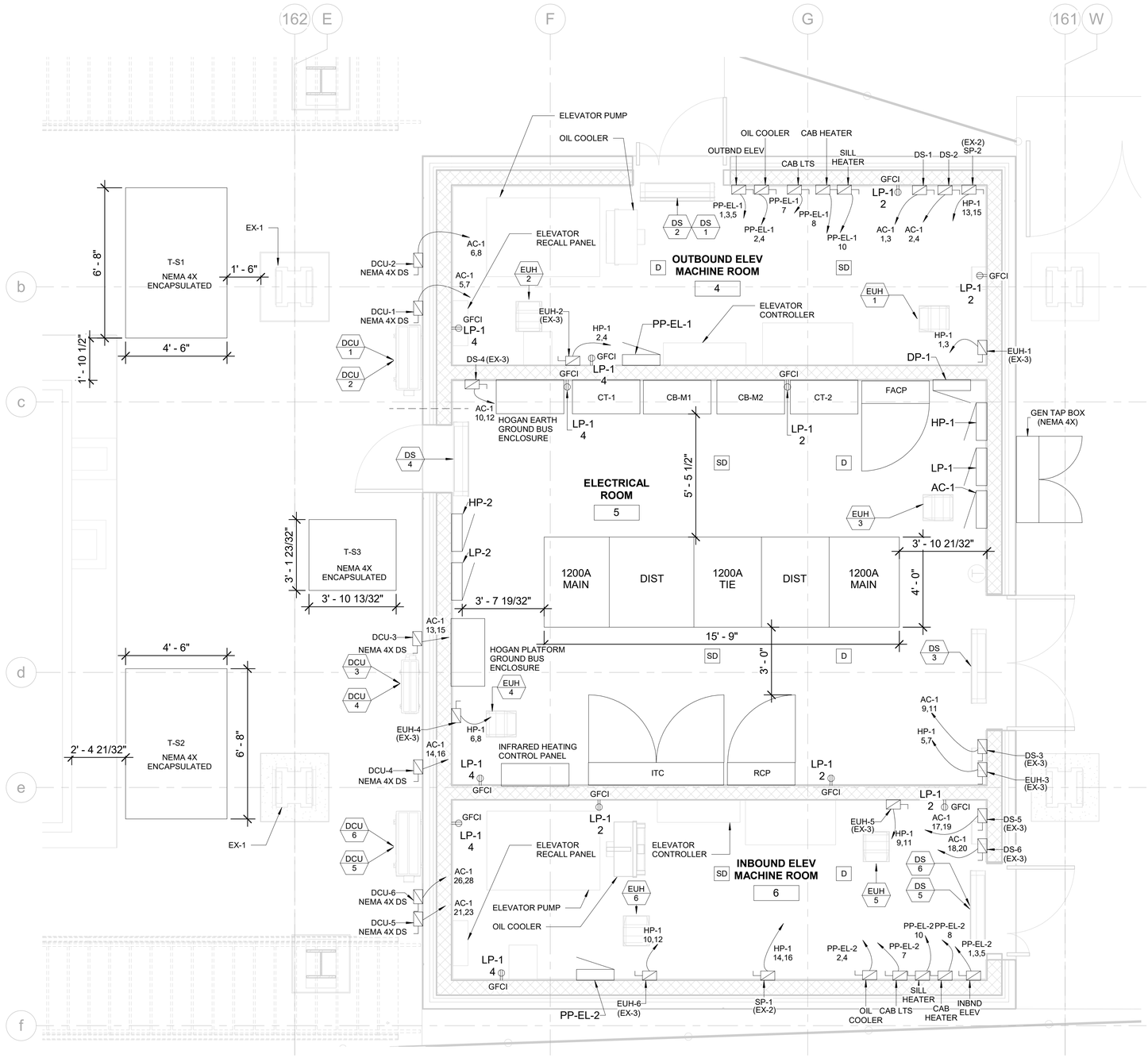
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PLATFORM AND STATION GROUNDING PLANS

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1 E-400 ELECTRICAL BUILDING - ENLARGED POWER PLAN
SCALE: 3/8" = 1'-0"

GENERAL NOTES:

1. REFER TO SHEET E-001 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS. REFER TO SHEET E-002 FOR ELECTRICAL NOTES.
2. REFER TO SHEET E-609 AND E-610 FOR ELECTRICAL SCHEDULES.
3. REFER TO SHEETS E-611, E-612 AND E-613 FOR PANEL SCHEDULES.
4. REFER TO SHEET E-602 FOR ELECTRICAL SINGLE LINE DIAGRAM.
5. ELECTRICAL EQUIPMENT TO BE PROVIDED WITH ELECTRICAL ISOLATION FROM BUILDING, FLOOR, AND STRUCTURE DUE TO STRAY CURRENTS FROM CTA TRACK. PROVIDE FIBERGLASS UNISTRUT MOUNTS FOR PANELS, JUNCTION BOXES AND CONDUIT SUPPORTS.
6. CB-M1 AND CB-M2 TO BE MOUNTED ON A WALL WITH FIBERGLASS UNISTRUT. MSWBD, T-S1, T-S2, AND T-S3 TO BE INSTALLED ON A 4 INCH CONCRETE PAD WITH A 4 INCH LIP. MSWBD REQUIRES ISOLATION PADS WITH ISOLATED ANCHORS TO CONCRETE PAD.
7. PROVIDE THREE FOOT WIDE RUBBER MAT ON FLOOR AROUND SWITCHBOARD AND IN FRONT OF ANY PLATFORM GROUNDED PANELS.
8. PROVIDE CONTINUOUS 1/4 INCH BY 2 INCHES GROUND BUS IN MAIN ELECTRICAL ROOM. WALL MOUNT COPPER GROUND BAR AT +18" A.F.F. AND AROUND /OVER DOORWAYS AND FLOOR MOUNTED EQUIPMENT. CONNECT THE GROUND BUS TO THE HOGAN EARTH GROUND BUS ENCLOSURE BY AN INSULATED #4/0 GROUND CONDUCTOR.
9. PROVIDE LABELS ON ELECTRICAL PANELS AND SWITCHBOARD THAT ARE CLEARLY VISIBLE AND SPECIFICALLY NOTE THOSE PIECES OF EQUIPMENT REFERENCE TRACK STRUCTURE AND THOSE THAT REFERENCE EARTH GROUND.
10. PROVIDE FIBERGLASS REINFORCED THERMOSET POLYESTER MATERIALS ON WALLS BEHIND PLATFORM GROUNDED EQUIPMENT AND IN BETWEEN PLATFORM AND EARTH GROUNDED EQUIPMENT THAT IS WITHIN 6 FEET OF EACH OTHER.
11. PROVIDE FIBERGLASS ENCLOSURE FOR HOGAN EARTH GROUND BUS ENCLOSURE, CT-1, CT-2, CB-M1, CB-M2, FACP AND INFRARED HEATING CONTROL PANEL. FACP ENCLOSURE SHALL BE RED AND LABELED FACP.
12. CONDUIT PENETRATIONS THROUGH THE ROOF/CEILING OF THE STATIONHOUSE AND THE ELECTRICAL/ELEVATOR MACHINE BUILDING ARE NOT ALLOWED. IF A ROOF/CEILING PENETRATION IS DEEMED NECESSARY, CONTRACTOR MUST COORDINATE WITH CTA PM AND CTA ENGINEERING PRIOR TO INSTALLATION OF EQUIPMENT AND PENETRATION OF ROOF. PENETRATION DETAILS MUST BE SUBMITTED IN CORRESPONDING SHOP DRAWINGS FOR REVIEW AND APPROVAL BY CTA ARCHITECTURAL AND ELECTRICAL ENGINEERING.
13. PROVIDE OVERHEAD BREAKER HOIST AND RAILS MOUNTED ON SWITCHBOARD TO FACILITATE REMOVAL/REPLACEMENT OF BREAKERS.

KEY NOTES: (EX-#)

1. WRAP COLUMN WITH NON-CONDUCTIVE MATERIAL OR SPRAY WITH NON-CONDUCTIVE PAINT.
2. SEE SHEET E-101 FOR LOCATION OF EQUIPMENT.
3. MOUNT DISCONNECT ON WALL 1'-0" BELOW CEILING.

0 1' 2' 4'
SCALE: 1/2"=1'-0"

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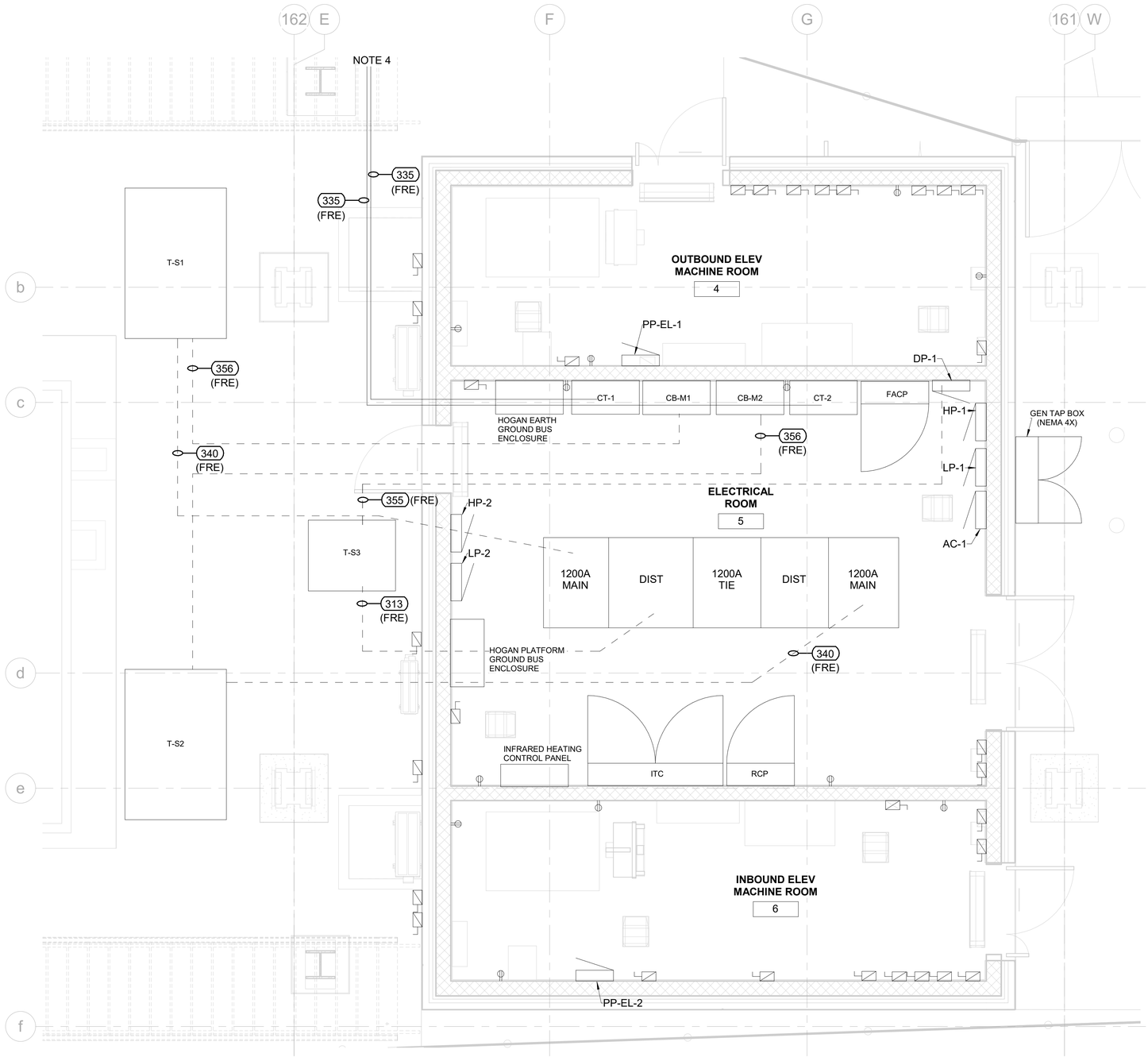
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ENLARGED MAIN ELECTRICAL ROOM

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1 E-401 ELECTRICAL BUILDING - ENLARGED UNDERGROUND CONDUIT PLAN
SCALE: 3/8" = 1'-0"

0 1' 2' 4'
SCALE: 1/2"=1'-0"

NORTH

GENERAL NOTES:

1. REFER TO SHEET E-001 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS. REFER TO SHEET E-002 FOR ELECTRICAL NOTES.
2. REFER TO SHEET E-602 FOR ELECTRICAL SINGLE LINE DIAGRAM.
3. REFER TO SHEET E-610 FOR FEEDER SCHEDULE.
4. PROVIDE WEATHERHEAD FOR CONNECTION TO ELECTRIC UTILITY POLE. INSTALL CABLES WITH SUPPORTS AT UTILITY POLE AND AT WEATHERHEAD. MAINTAIN 14'-0" CLEARANCE FOR CABLES ABOVE ALLEY.
5. MINIMUM DEPTH FOR UNDERGROUND CONDUIT SHALL BE 24 INCHES BELOW FINISHED GRADE.
6. REFER TO CIVIL SHEET C-103 FOR CONDUIT ROUTING FROM ELEVATOR MACHINE ROOMS TO ELEVATORS.

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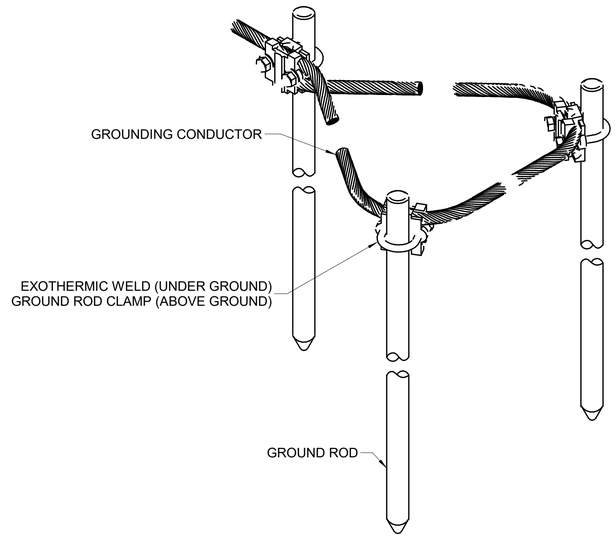
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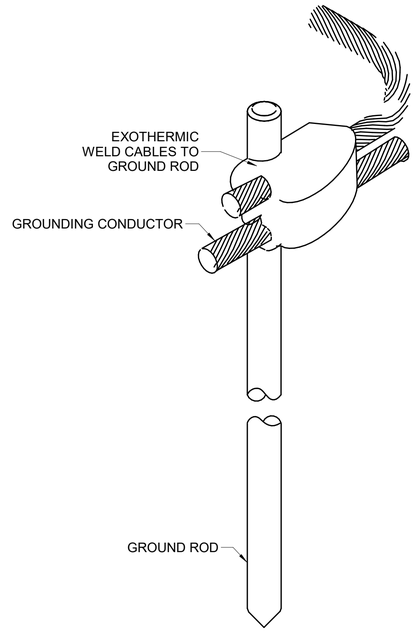
ELECTRICAL BUILDING - ENLARGED UNDERGROUND PLAN

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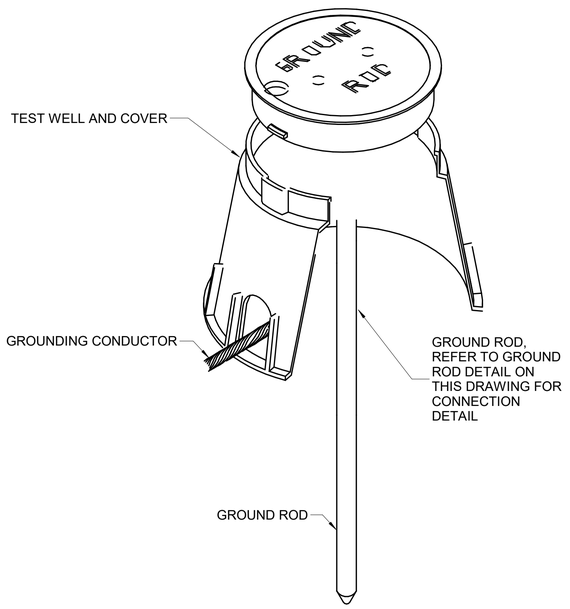
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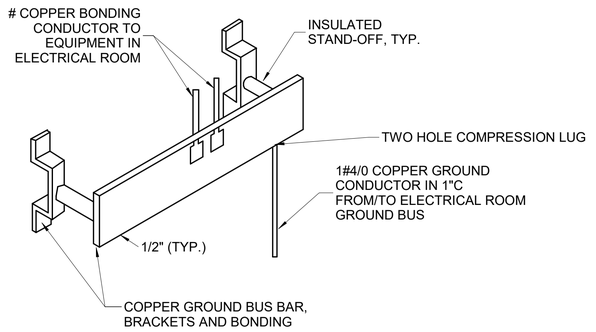
1 E-501 GROUND ROD DELTA DETAIL
SCALE:NTS



2 E-501 UNDERGROUND ROD DETAIL
SCALE:NTS



3 E-501 GROUND ROD TEST WELL DETAIL
SCALE:NTS



DETAIL NOTES:

A. MOUNT COPPER GROUND BAR AT + 18" A.F.F. AND AROUND /OVER DOORWAYS AND FLOOR MOUNTED EQUIPMENT.

B. STANDOFF INSULATION MUST BE PROVIDED WHEN ZONING THE BAR.

4 E-501 GROUND BUS BAR DETAILS
SCALE:NTS

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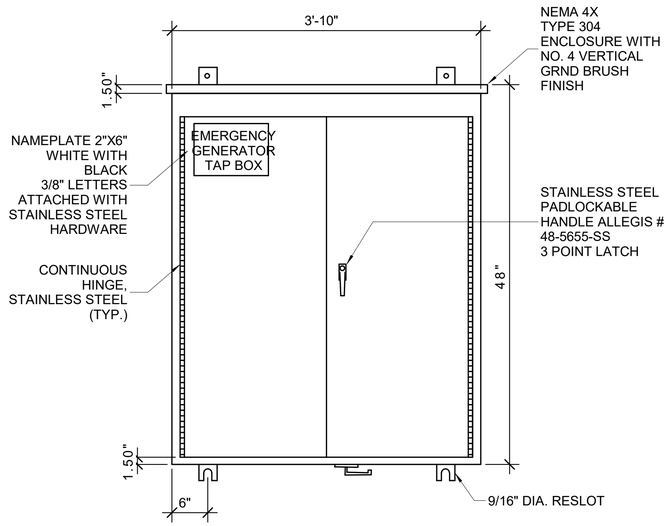
GROUNDING DETAILS

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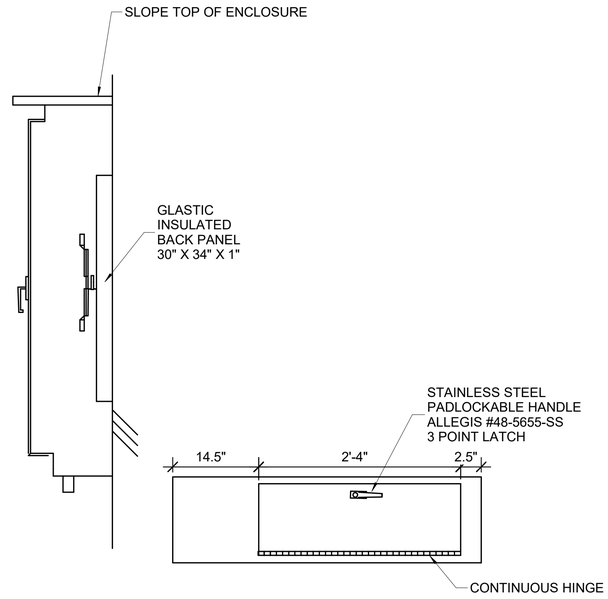
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OPEN VIEW



FRONT VIEW



SECTION

BOTTOM VIEW

1 E-502 PORTABLE GENERATOR TAP BOX
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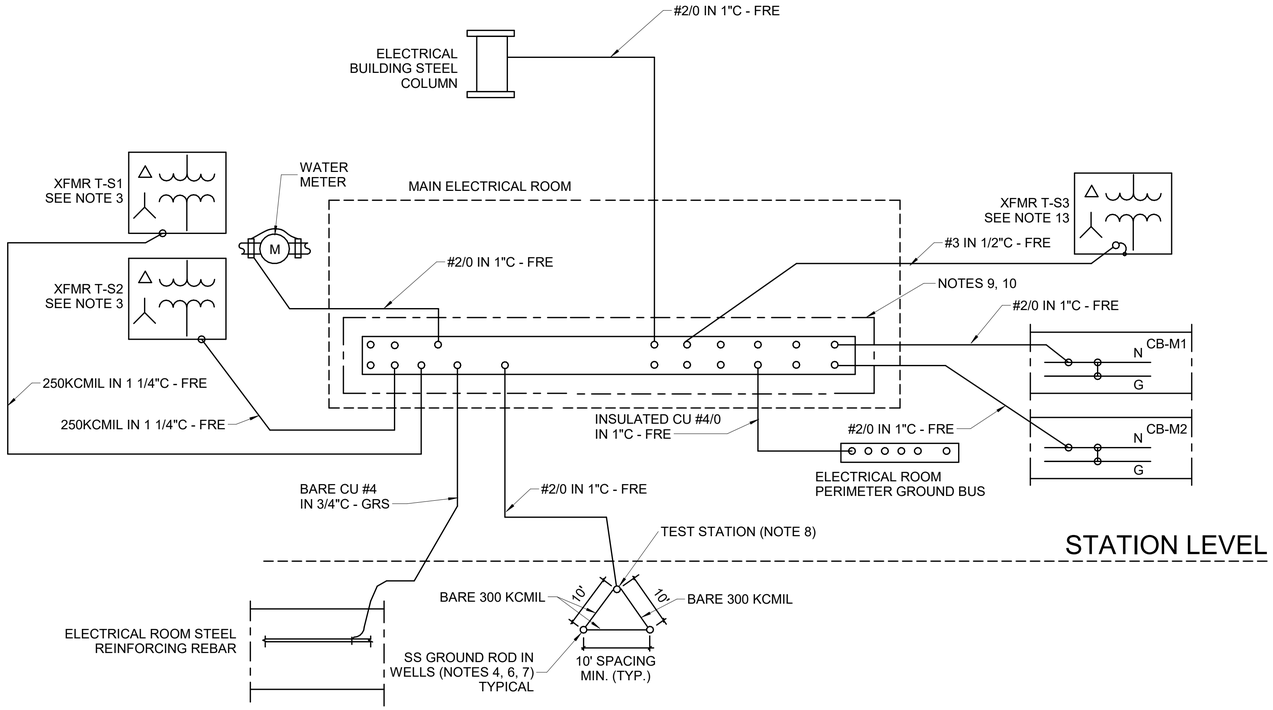
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ELECTRICAL DETAILS

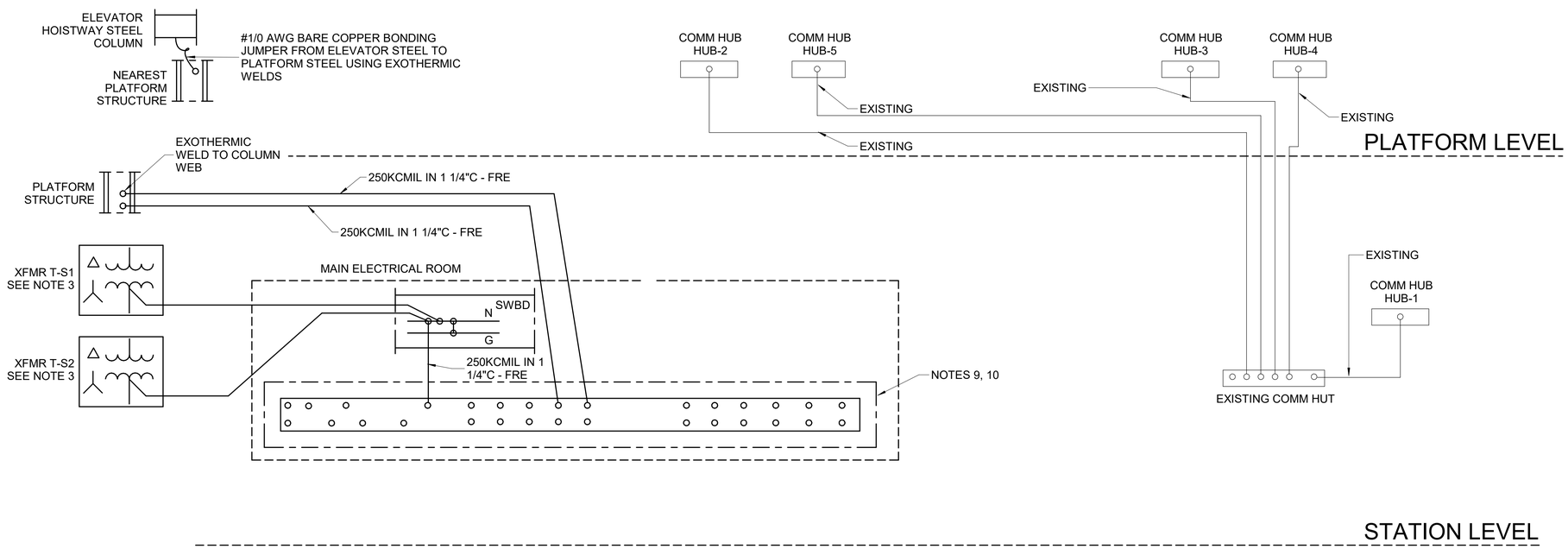
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2 E-600 EARTH GROUNDING DIAGRAM
SCALE:NTS



1 E-600 PLATFORM GROUNDING DIAGRAM
SCALE:NTS

NOTES:

1. SEE DRAWING E-001 FOR ELECTRICAL SYMBOL LIST AND ABBREVIATIONS.
2. SEE DRAWING E-002 FOR ELECTRICAL GENERAL NOTES.
3. CHASSIS OF TRANSFORMER SHALL BE CONNECTED TO HOGAN EARTH GROUND BUS ENCLOSURE.
4. EXOTHERMIC WELDED CONNECTION.
5. ALL UNGROUNDED CONDUITS SHALL BE NON-METALLIC.
6. ALL GROUND RODS SHALL BE 3/4" X 10'-0" MIN STAINLESS STEEL DRIVEN INTO UNDISTURBED EARTH TO ACHIEVE PROPER RESISTANCE PER SPECIFICATIONS.
7. ADDITIONAL GROUND RODS SHALL BE PROVIDED TO OBTAIN 25 OHM FIELD TESTED READINGS OF GROUNDING SYSTEM PER SPECIFICATIONS.
8. SEE DETAIL 3 ON DWG E-501 FOR TEST WELL.
9. CITY OF CHICAGO HOGAN GROUND ENCOSURE WITH COPPER GROUND ELECTRODE SYSTEM BAR.
10. ALL CONNECTIONS TO GROUND BAR SHALL BE EXOTHERMICALLY WELDED.
11. REFER TO DWG E-501 FOR ADDITIONAL GROUNDING DETAILS.
12. ALL GROUND CONDUCTORS SHALL BE INSULATED AND PROTECTED USING THE CONDUIT PER CHICAGO ELECTRICAL CODE.
13. TRANSFORMER NEUTRAL TO BE GROUNDED TO THE HOGAN EARTH GROUND ENCLOSURE. PROVIDE A BONDING JUMPER FROM THE TRANSFORMER GROUNDING LUG TO THE TRANSFORMER CHASSIS.

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GROUNDING DIAGRAMS

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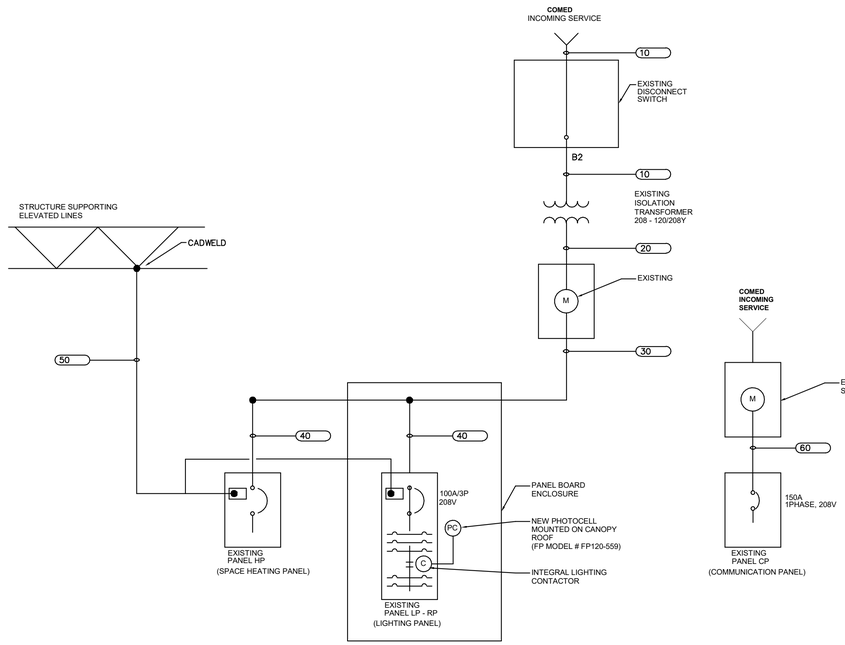
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GENERAL NOTES:

1. EXISTING ELECTRICAL PANELS SHALL REMAIN AND BE USED TO TEMPORARILY POWER THE EXISTING STATION AND PLATFORM LOADS. ONCE THE NEW ELECTRICAL PANELS IN THE NEW ELECTRICAL BUILDING ARE INSTALLED AND OPERATIONAL, THE EXISTING LOADS SHALL BE REFED. INTERCEPT THE EXISTING CONDUITS NEAR THE EXISTING PANELS AND PULL NEW WIRING BACK TO THE PANELS. ONCE NEW PANELS AND SWITCHBOARD ARE IN OPERATION, EXISTING ELECTRICAL PANELS SHALL BE SALVAGED AND DELIVERED TO CTA WEST SHOPS. REFER TO SHEETS E-611, E-612 AND E-613 FOR PANEL SCHEDULES FOR NEW CIRCUITS FEEDING EXISTING LOADS.

2. REFER TO SHEET E-602 FOR ELECTRICAL SINGLE LINE DIAGRAM.



NOTE 1

FEEDER SCHEDULE

COND. NO.	FROM	TO	CABLE	CONDUIT SIZE	REMARKS
10	UTILITY SOURCE	ISOLATION TRANSFORMER #1	EXISTING	EXISTING	
20	ISOLATION TRANSFORMER #1	METER SOCKET	EXISTING	EXISTING	
30	METER SOCKET	SPLICE	EXISTING	EXISTING	
40	SPLICE	PANEL LP-RP	EXISTING	EXISTING	
50	SPLICE	PANEL HP	EXISTING	EXISTING	
60	UTILITY SOURCE	PANEL CP	EXISTING	EXISTING	

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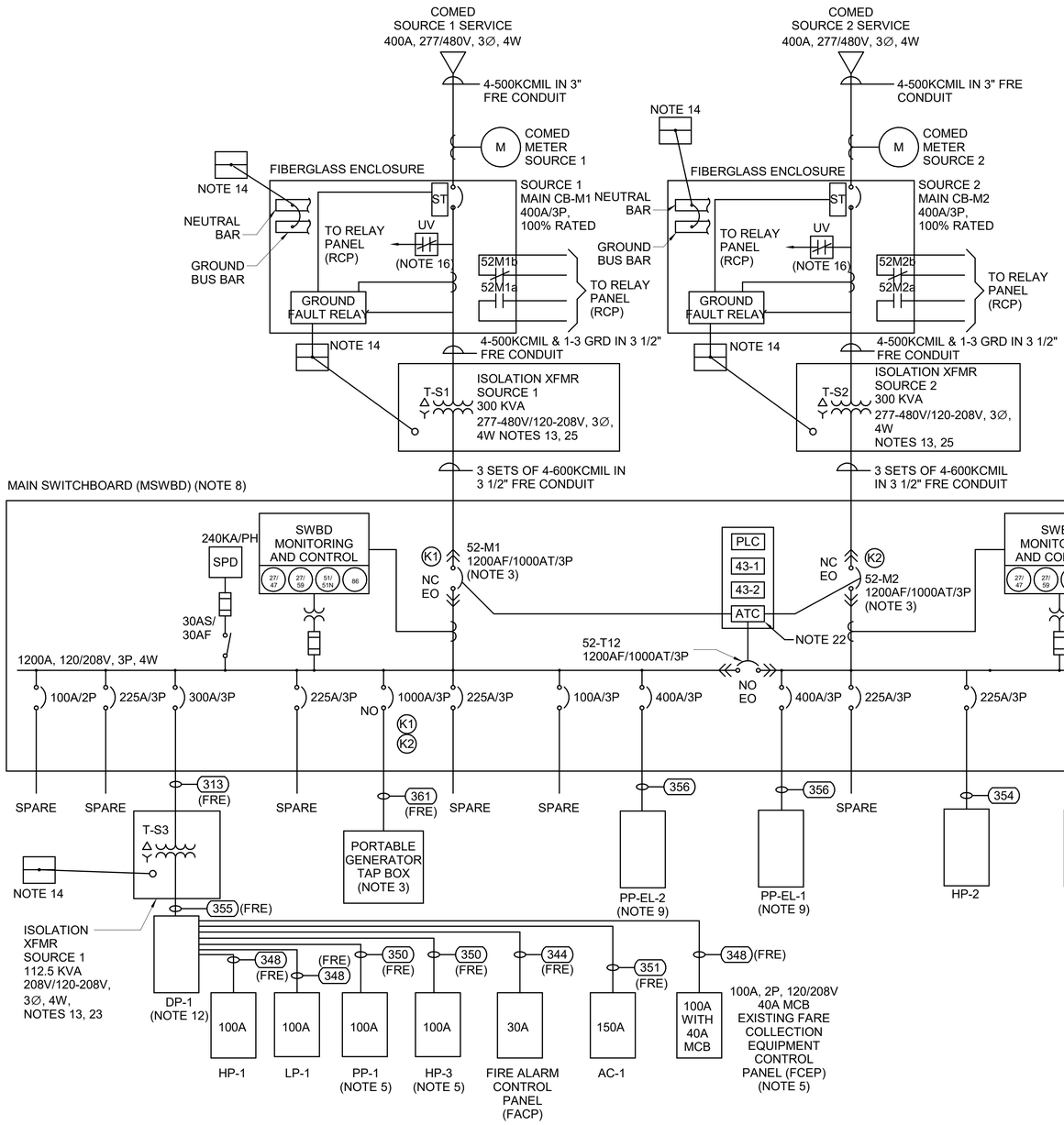
EXISTING ELECTRICAL SINGLE LINE DIAGRAM

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NET LOAD SUMMARY				
EXISTING CONNECTED LOAD (W)	EXISTING LOAD (W) + 25%	ADDED LOADS (W)	NEW LOAD (W)	NEW LOAD (AMPS @ 480V)
48,798	60,998	213,136	274,134	330



NOTES:

1. REFER TO SHEET E-001 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS. REFER TO SHEET E-002 FOR ELECTRICAL NOTES.
2. ALL GROUND CONNECTIONS TO PLATFORM STRUCTURE AND EARTH GROUND RODS SHALL BE EXOTHERMIC WELDS.
3. KEY INTERLOCKING TO PREVENT CONCURRENT OPERATION OF COMED POWER AND CTA PORTABLE GENERATOR.
4. ALL EQUIPMENT IS LOCATED IN ELECTRICAL ROOM UNLESS OTHERWISE NOTED.
5. LOCATED IN EXISTING ELECTRICAL CLOSET IN THE STATIONHOUSE.
6. FOR FEEDER SCHEDULE, REFER TO SHEET E-610.
7. ALL CONDUIT TO BE RGS, UNLESS NOTED OTHERWISE. THE CONDUIT FOR ALL EARTH GROUND SYSTEMS SUPPORTED BY THE PLATFORM STRUCTURE SHALL BE FRE.
8. ELECTRICAL EQUIPMENT TO BE PROVIDED WITH ELECTRICAL ISOLATION FROM BUILDING, FLOOR, AND STRUCTURE DUE TO STRAY CURRENTS FROM CTA TRACK. PROVIDE FIBERGLASS UNISTRUT MOUNTS FOR PANELS, JUNCTION BOXES AND CONDUIT SUPPORTS.
9. LOCATED IN ELEVATOR MACHINE ROOM.
10. CB-M1 AND CB-M2 TO BE MOUNTED ON A WALL WITH FIBERGLASS UNISTRUT. MSWBD, T-S1, T-S2, T-S3 AND T-S4 TO BE INSTALLED ON A 4 INCH CONCRETE PAD WITH A 4 INCH LIP. MSWBD REQUIRES ISOLATION PADS WITH ISOLATED ANCHORS TO CONCRETE PAD.
11. ALL PANEL BOARDS TO HAVE A MINIMUM RATING OF 65KAIC. SERIES RATED BREAKERS ARE NOT ALLOWED.
12. DISTRIBUTION PANEL IS GROUNDED TO EARTH.
13. TRANSFORMER IS LOCATED EXTERIOR TO THE ELECTRICAL BUILDING. PROVIDE NEMA 3R STAINLESS STEEL ENCLOSURE.
14. CONNECT TO HOGAN EARTH GROUND ENCLOSURE. SEE GROUNDING DIAGRAMS ON SHEET E-600.
15. CONNECT TO HOGAN PLATFORM GROUND ENCLOSURE. SEE GROUNDING DIAGRAMS ON SHEET E-600.
16. UNDER VOLTAGE SENSING RELAY WITH TIME DELAY.
17. PROVIDE SPD RATED AT 240 KA FOR THE SWITCHBOARD.
18. ALL SWITCHBOARD CIRCUIT BREAKERS AND MAIN CB-M1 AND CB-M2 TO HAVE A MINIMUM RATING OF 65 KAIC OR AS REQUIRED BY POWER STUDY.
19. PROVIDE DIGITAL POWER METER AND PLC MONITORING FOR THE SWITCHBOARD AS DEFINED IN THE SPECIFICATIONS. COORDINATE REQUIREMENTS WITH THE SWITCHBOARD MANUFACTURER.
20. INCOMING ELECTRICAL SERVICE FEEDER REQUIREMENTS SHALL BE COORDINATED WITH ELECTRICAL UTILITY. PROVIDE SERVICE ENTRANCE AND POWER DISTRIBUTION FEEDER CABLES BETWEEN THE WEATHERHEAD AND THE SWITCHBOARD. CABLES SHALL BE TYPE XHHW-2.
21. ALL POWER CIRCUIT BREAKERS, MAIN BREAKERS AND BRANCH MAINS TO HAVE AUXILIARY CONTACTS TO ALARM AT RCP AND TO SCADA.
22. SWITCHBOARD MAIN-TIE-MAIN AUTOMATIC INTERLOCK WITH AUTOMATIC TRANSFER CONTROLS - BY SWITCHBOARD MANUFACTURER. PROVIDE PLC AND METERING WITH SOFTWARE AND PROGRAMMING PER SPECIFICATIONS. PROVIDE SPARE ATC.
23. TRANSFORMER NEUTRAL TO BE GROUNDED TO THE HOGAN EARTH GROUND ENCLOSURE. PROVIDE A BONDING JUMPER FROM THE TRANSFORMER GROUNDING LUG TO THE TRANSFORMER CHASSIS.
24. PROVIDE OVERHEAD BREAKER HOIST AND RAILS MOUNTED ON SWITCHBOARD TO FACILITATE REMOVAL/REPLACEMENT OF BREAKERS.
25. TRANSFORMER NEUTRAL TO BE CONNECTED TO THE SWITCHBOARD NEUTRAL BUS BAR. TRANSFORMER CHASSIS TO BE BONDED TO THE HOGAN EARTH GROUND ENCLOSURE.

SWITCHBOARD SEQUENCE OF OPERATION:

1. NORMAL CONDITION:
   a. 52-M1 NORMALLY CLOSED
   b. 52-M2 NORMALLY CLOSED
   c. 52-T12 NORMALLY OPEN
2. LOSS OF UTILITY SOURCE 1:
   a. 52-M1 OPENS
   b. 52-T12 CLOSES
   c. 52-M2 REMAINS CLOSED
3. LOSS OF UTILITY SOURCE 2:
   a. 52-M2 OPENS
   b. 52-T12 CLOSES
   c. 52-M1 REMAINS CLOSED
4. LOSS OF BOTH UTILITY SOURCES 1 AND 2:
   a. 52-M1 OPENS
   b. 52-M2 OPENS
   c. 52-T12 CLOSES

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ELECTRICAL SINGLE LINE DIAGRAM

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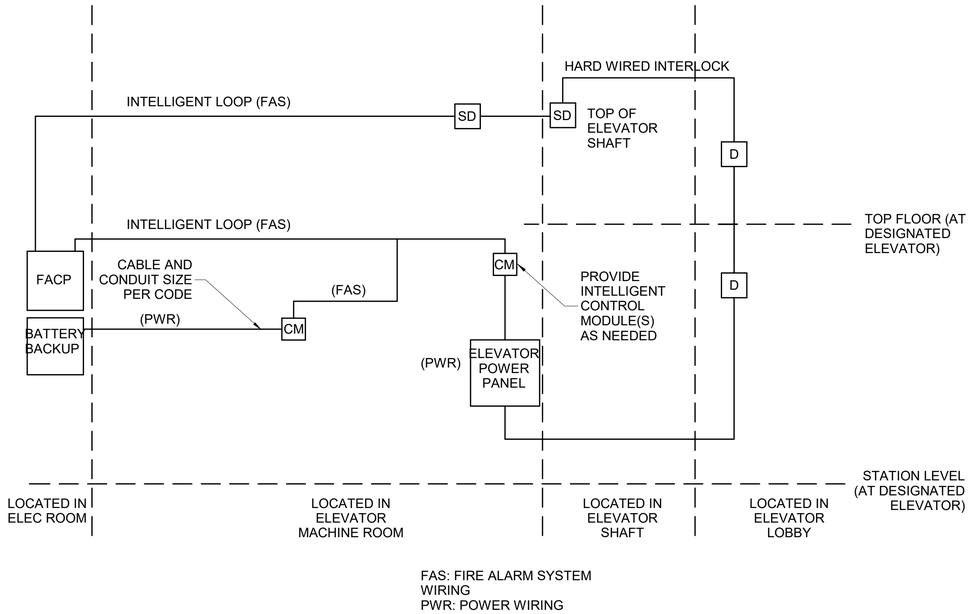
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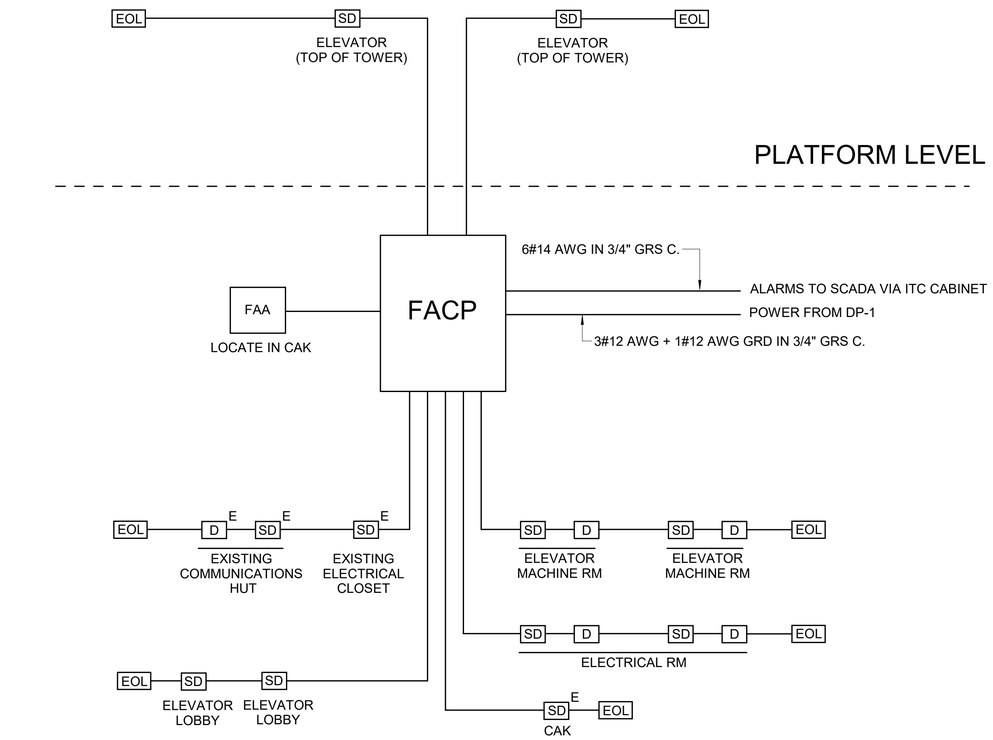
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2. ELEVATOR LOBBY, SHAFT AND MACHINE ROOM SMOKE AND HEAT DETECTORS SHALL BE INTEGRATED WITH THE ELEVATOR CONTROL PANEL(S). EXTERIOR MOUNTED SMOKE AND HEAT DETECTORS SHALL BE RATED FOR EXTREME TEMPERATURES.
3. FIRE ALARM SYSTEM WIRING SHALL BE SILICON RUBBER INSULATED, GLASS BRAID JACKETED.



2 E-603 ELEVATOR RECALL
SCALE:NTS



1 E-603 MAIN STATIONHOUSE FIRE ALARM RISER
SCALE:NTS

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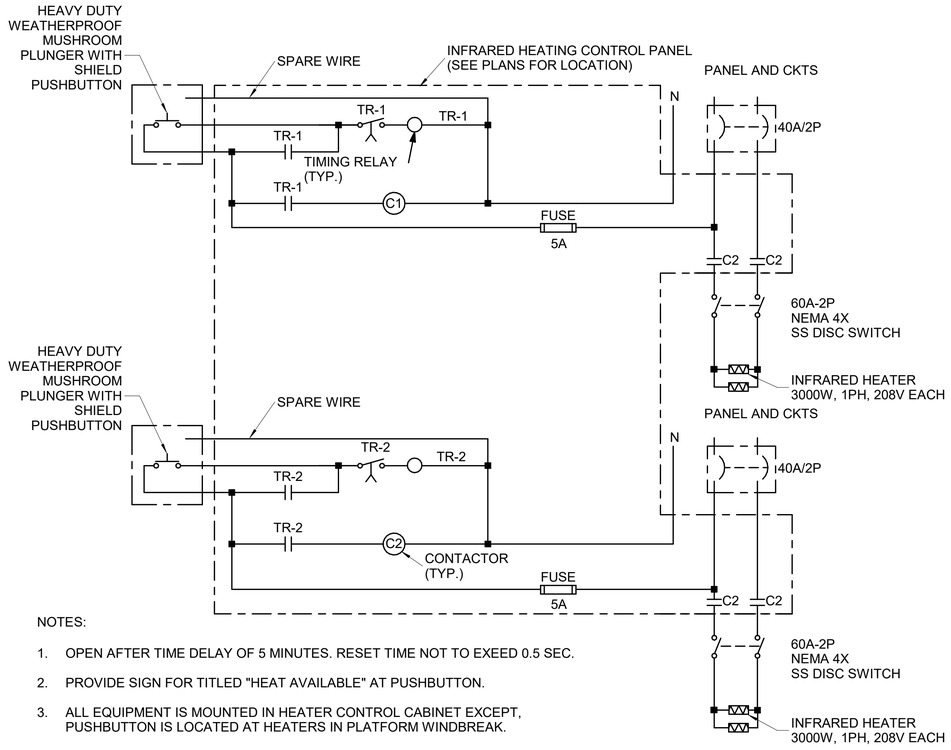
MARK	DATE	DESCRIPTION
0	12/30/24	ISSUE FOR BID

FIRE ALARM RISER DIAGRAM

LSCAL | E-603
VOLUME: 1 OF 1

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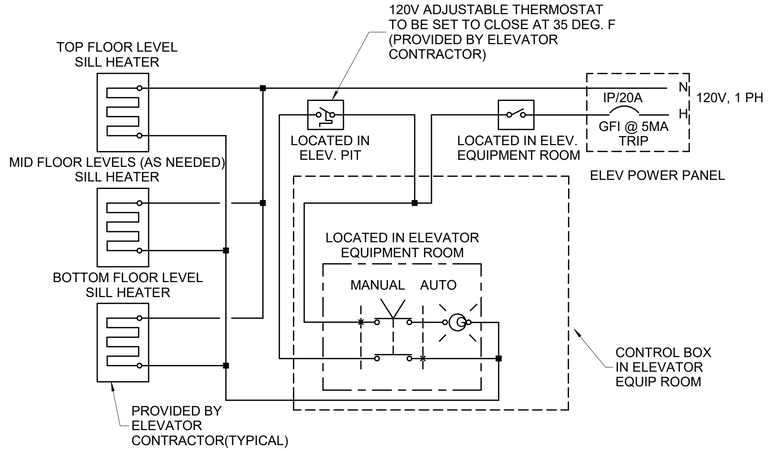
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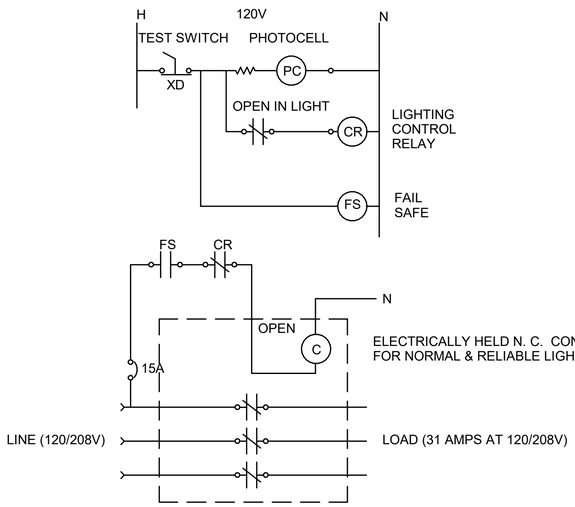
NOTES:

1. OPEN AFTER TIME DELAY OF 5 MINUTES. RESET TIME NOT TO EXEED 0.5 SEC.
2. PROVIDE SIGN FOR TITLED "HEAT AVAILABLE" AT PUSHBUTTON.
3. ALL EQUIPMENT IS MOUNTED IN HEATER CONTROL CABINET EXCEPT, PUSHBUTTON IS LOCATED AT HEATERS IN PLATFORM WINDBREAK.

1 PLATFORM INFRARED HEATER DIAGRAM
E-604 SCALE:NTS



2 ELEVATOR DOOR SILL FREEZE PROTECTION-WIRING DIAGRAM
E-604 SCALE:NTS



THIS CIRCUIT WILL FORCE THE LIGHTS ON DURING A CONTROL POWER FAILURE OR WHILE THE SWITCH IS IN THE TEST POSITION.

USE OF MINIMUM 3PDT RELAYS FOR FS AND CR ALLOWS FOR FUTURE MONITORING OF POWER AND/OR LIGHTING STATUS.

3 ELEVATED STATION PLATFORM LIGHTING PHOTOCELL CONTROL
E-604 SCALE: 12" = 1'-0"

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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	AG
CHECKED BY	AF/AG/PD
DESIGNED BY	AG
DRAWN BY	AS/AG

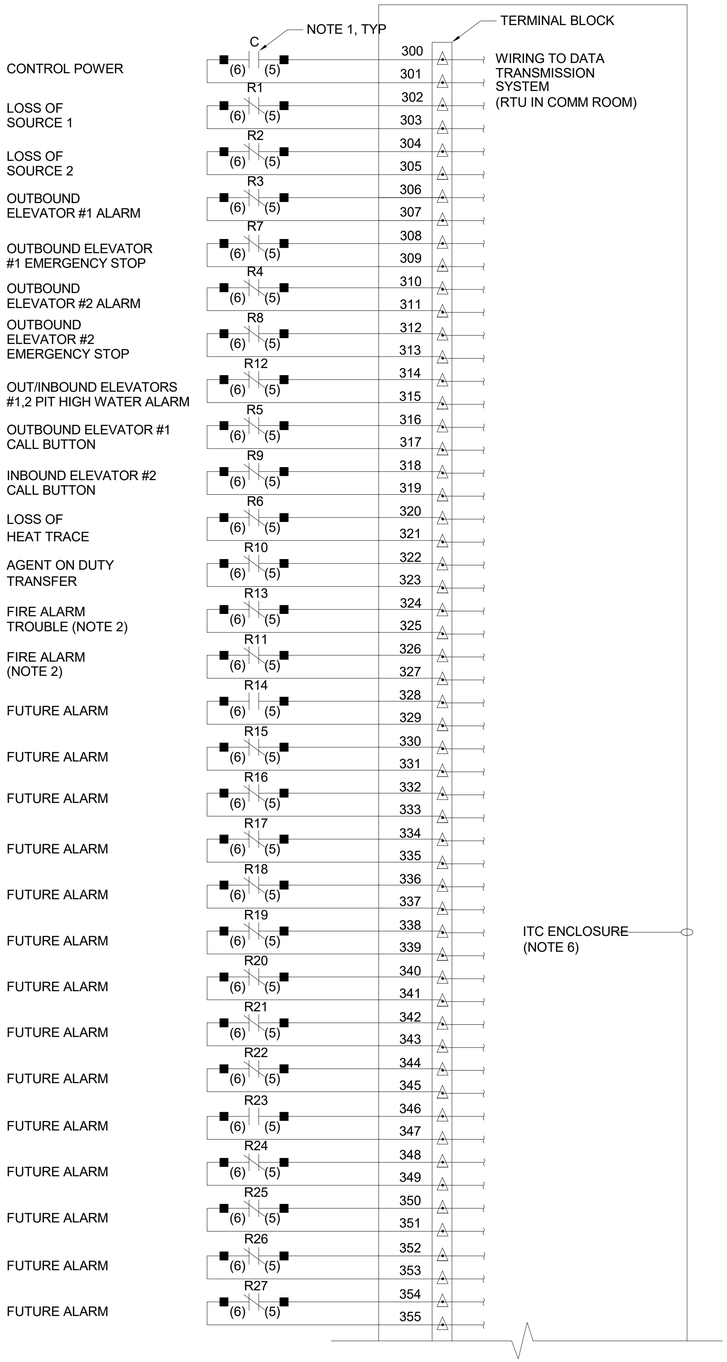
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ELECTRICAL DIAGRAMS

LSCAL | E-604

VOLUME: 1 OF 1

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NOTES:

1. MAXIMUM CONTACT RATING 120 VOLT AC, 10 FULL LOAD AMPS
   MAKE: 1200 VA
   BREAK: 360 VA
   CIRCUIT BREAKER OR FUSED DISCONNECT AS REQUIRED BY NEC.
2. CONFIRM THAT FIRE ALARM AND UPS CONTACTS ARE NORMALLY CLOSED AND OPEN ON ALARM OR FAULT.
3. ITC CABINET AND RELAY CONTROL PANEL ARE LOCATED IN ELECTRICAL ROOM.
4. CONNECT ALL RELAY NC & NO CONTACTS TO ITC PANEL.
5. WIRING FROM TERMINALS IN ITC CABINET TO TERMINALS IN RCP PANEL AND FIELD WIRING FROM REMOTE DEVICES TO ITC CABINET OR RCP PANEL TO BE #14 AWG IN 3/4" GRS CONDUIT.
6. CONTROL PANEL TO HAVE U/L 508 INDUSTRIAL CONTROL LABEL.

LEGEND:

- ♦ - TERMINAL IN KIOSK ALARM PANEL
- △ - TERMINAL IN INTERFACE TERMINAL COMPARTMENT
- ■ - TERMINAL OR DEVICE IN ALARM RELAY CONTROL PANEL
- ▣ - TERMINAL AT RESPECTIVE REMOTE DEVICE
- D - DOOR SWITCH CONTACT (INTRUSION ALARM)

1 E-605 INTERFACE TERMINAL CABINET (ITC) WIRING DIAGRAM
SCALE: 1" = 1'-0"

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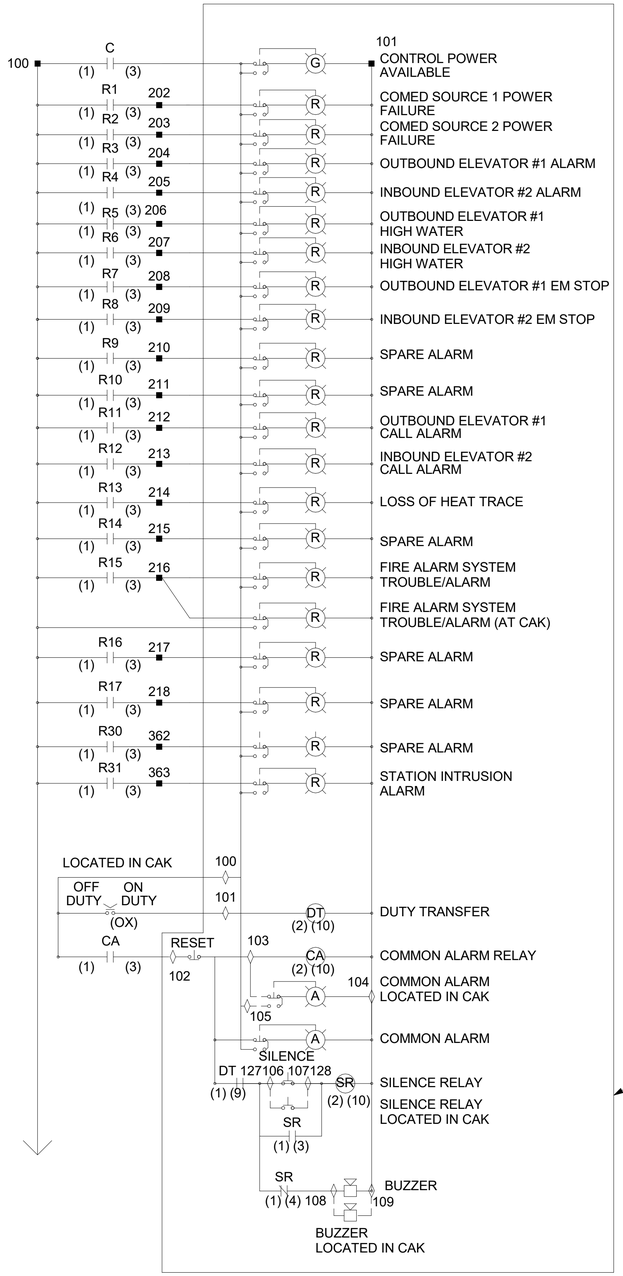
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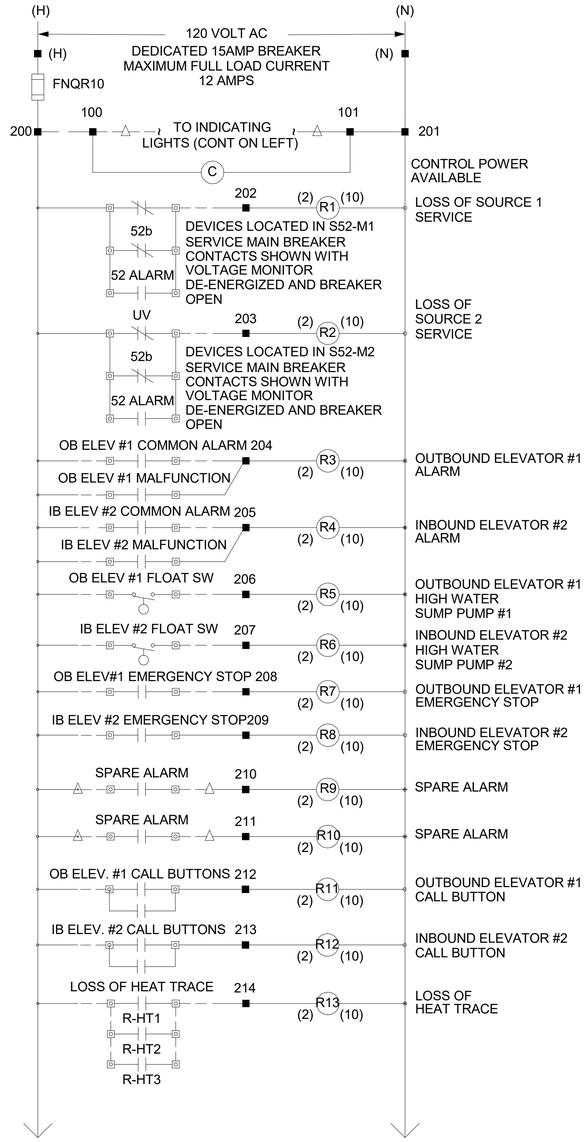
ELECTRICAL DIAGRAMS

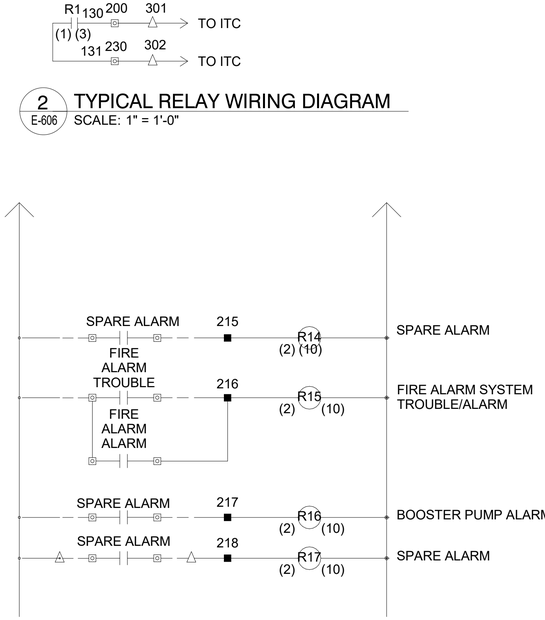
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VOLUME: 1 OF 1

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1 E-606 RELAY CONTROL PANEL (RCP) WIRING DIAGRAM
SCALE: 1" = 1'-0"





2 E-606 TYPICAL RELAY WIRING DIAGRAM
SCALE: 1" = 1'-0"

LEGEND

SYMBOL	DESCRIPTION
△	TERMINAL IN KIOSK ALARM PANEL
◇	TERMINAL IN INTERFACE TERMINAL CABINET
■	TERMINAL OR DEVICE IN RELAY CONTROL PANEL
◎	TERMINAL AT RESPECTIVE REMOTE DEVICE

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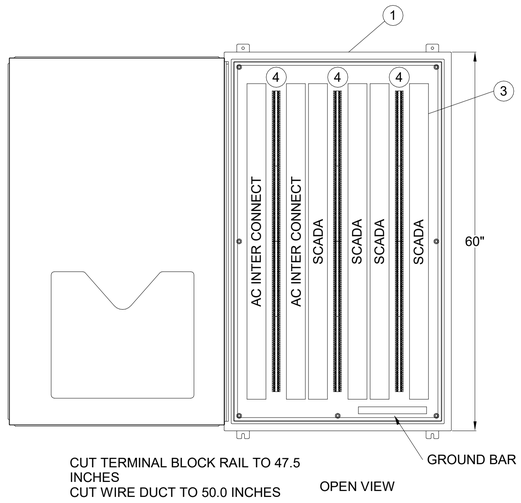
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ELECTRICAL DIAGRAMS

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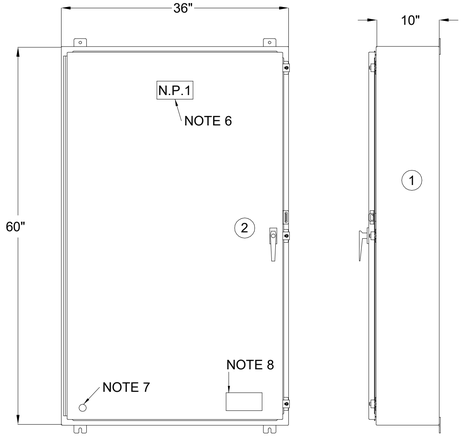


CUT TERMINAL BLOCK RAIL TO 47.5 INCHES
CUT WIRE DUCT TO 50.0 INCHES

OPEN VIEW



TOP VIEW



FRONT VIEW SIDE VIEW

INTERFACE TO SCADA SYSTEM

300		
301	346	391
302	347	392
303	348	393
304	349	394
305	350	395
306	351	396
307	352	397
308	353	398
309	354	399
310	355	400
311	356	401
312	357	402
313	358	403
314	359	404
315	360	405
316	361	406
317	362	407
318	363	408
319	364	409
320	365	410
321	366	411
322	367	412
323	368	413
324	369	414
325	370	415
326	371	416
327	372	417
328	373	418
329	374	419
330	375	420
331	376	421
332	377	422
333	378	423
334	379	424
335	380	425
336	381	426
337	382	427
338	383	428
339	384	429
340	385	430
341	386	431
342	387	432
343	388	433
344	389	434
345	390	435

NOTES:

1. ENCLOSURE SIMILAR TO HOFFMAN BULLETIN A12 EXCEPT MADE FROM 12 GAUGE GALVANEAL STEEL CONTINUOUSLY WELDED SEAMS, PRIMED AND FINISHED ANSI-61 WITH 12 GAUGE BACK SUB PANEL PAINTED WHITE.
2. SUB PANEL MOUNTED WITH VIBRATION DAMPERS.
3. WIRE DUCT COVERS PROVIDED WITH USE IDENTIFICATION LABELS.
4. ASSEMBLY TO BEAR UL INDUSTRIAL CONTROL LABEL.
5. ALL CONTROL WIRING TO BE #14 AWG TYPE SIS, 19 STRAND, COPPER, 600 VOLTS ASSEMBLY TO BEAR UL 508 INDUSTRIAL CONTROL LABEL. ALL INTERNAL CONNECTIONS TO BE MADE WITH PANDUIT INSULATED RING TYPE LUGS WHEN POSSIBLE.
6. 2 X 6 WHITE WITH BLACK 3/8" LETTERS STAINLESS STEEL SCREW ATTACHED "INTERFACE TERMINAL CABINET ITC".
7. DOOR GROUND STUD.
8. MULTIPLE SOURCE LABEL.
9. DOOR TO BE GASKETED AND PROVIDED WITH CONTINUOUS STAINLESS STEEL HINGE. PROVIDE DOCUMENT HOLDER ON INSIDE FACE OF DOOR.

LEGEND	
ITEM NO.	DESCRIPTION
1	SEE NOTES 1,2,4,9
2	3 POINT LEVER HANDLE LOCK KEYED CAT 60
3	WHITE NYLON WIRE DUCT 3 X 3 WITH COVER (NOTE 3)
4	3 POINT 30AMPERE 600VOLT SCREW TYPE TERMINAL BLOCKS

1 / E-607 INTERFACE TERMINAL CABINET (ITC) DETAILS
SCALE: 1/8" = 1'-0"

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ELECTRICAL DETAILS

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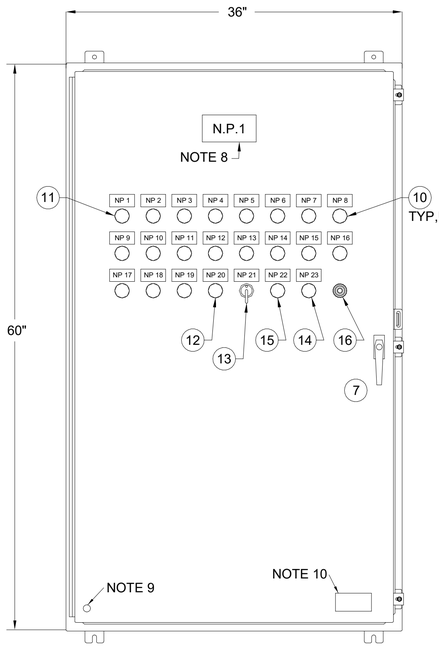
NAMEPLATES		
NAME PLATE	ENGRAVING	
NP 1	LINE 1	CONTROL POWER
	LINE 2	AVAILABLE
NP 2	LINE 1	NORMAL SERVICE
	LINE 2	FAILURE
NP 3	LINE 1	RELIABLE SERVICE
	LINE 2	FAILURE
NP 4	LINE 1	ELEVATOR #1 OUTBOUND
	LINE 2	EMERGENCY STOP
NP 5	LINE 1	ELEVATOR #1 OUTBOUND
	LINE 2	TROUBLE
NP 6	LINE 1	ELEVATOR #2 INBOUND
	LINE 2	EMERGENCY STOP
NP 7	LINE 1	ELEVATOR #2 INBOUND
	LINE 2	TROUBLE
NP 8	LINE 1	SPARE
	LINE 2	
NP 9	LINE 1	SPARE
	LINE 2	
NP 10	LINE 1	SPARE
	LINE 2	
NP 11	LINE 1	SPARE
	LINE 2	
NP 12	LINE 1	SPARE
	LINE 2	
NP 13	LINE 1	ELEVATOR PITS
	LINE 2	HIGH WATER
NP 14	LINE 1	SPARE
	LINE 2	
NP 15	LINE 1	SPARE
	LINE 2	
NP 16	LINE 1	HEAT TRACE
	LINE 2	FAILURE
NP 17	LINE 1	INTRUSION
	LINE 2	STATION
NP 18	LINE 1	SPARE
	LINE 2	
NP 19	LINE 1	-
	LINE 2	-
NP 20	LINE 1	COMMON
	LINE 2	ALARM
NP 21	LINE 1	OFF ON
	LINE 2	DUTY DUTY
NP 22	LINE 1	ALARM
	LINE 2	RESET
NP 23	LINE 1	ALARM
	LINE 2	SILENCE

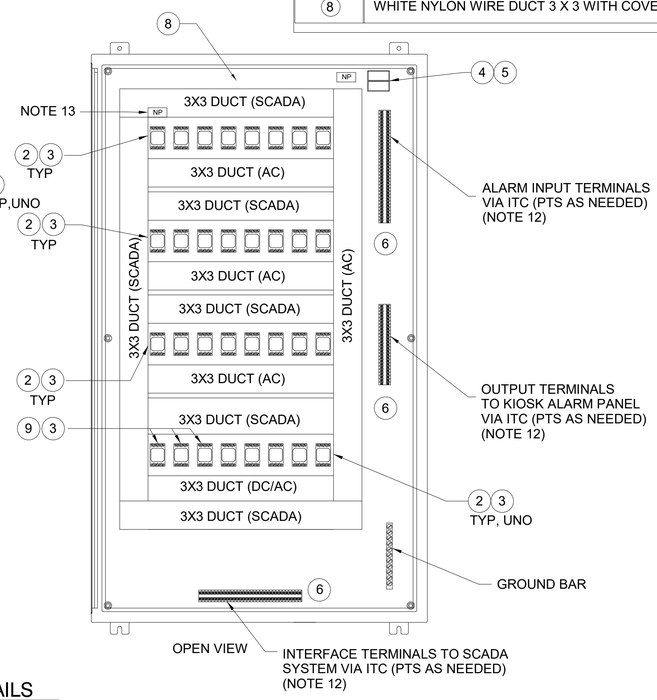
NAMEPLATES 1" X 2" WHITE WITH BLACK 1/8" LETTERS
ATTACHED WITH STAINLESS STEEL HARDWARE

NOTES:

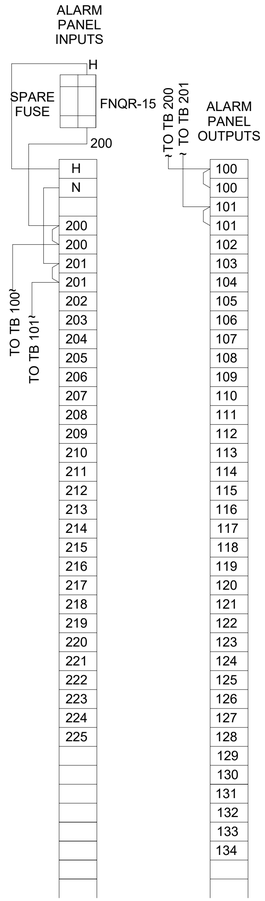
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2. SUB PANEL MOUNTED WITH VIBRATION DAMPERS.
3. ALL RELAYS PRIVIDED WITH RETAINING CLIPS.
4. WIRE DUCT COVERS PROVIDED WITH USE IDENTIFICATION LABELS.
5. ASSEMBLY TO BEAR UL INDUSTRIAL CONTROL LABEL.
6. ALL CONTROL WIRING TO BE #14 AWG TYPE SIS, 19 STRAND, COPPER, 600 VOLTS ASSEMBLY TO BEAR UL 508 INDUSTRIAL CONTROL LABEL. ALL INTERNAL CONNECTIONS TO BE MADE WITH PANDUIT INSULATED RING TYPE LUGS WHEN POSSIBLE.
7. CONNECTIONS TO RELAY SOCKETS MADE WITH PANDUIT INSULATED LOCKING FORK LUGS.
8. 2X6 WHITE WITH BLACK 3/8" LETTERS, STAINLESS STEEL SCREW ATTACHED "ALARM RELAY PANEL RCP".
9. DOOR GROUND STUD.
10. MULTIPLE SOURCE LABEL.
11. DOOR TO BE GASKETED AND PROVIDED WITH CONTINUOUS STAINLESS STEEL HINGE. PROVIDE DOCUMENT HOLDER ON INSIDE FACE OF DOOR.
12. PROVIDE MINIIMUM 8 SPARE TERMINALS.
13. PROVIDE NAMEPLATE, 1"X2", FOR EACH RELAY ATTACHED WITH STAINLESS STEEL HARDWARE. RELAY R1 THROUGH R32 TO BE WHITE WITH BLACK 3/8" LETTERS. RELAY R33 THROUGH R35 TO BE BLUE WITH WHITE 3/8" LETTERS.

LEGEND			
ITEM NO.	DESCRIPTION	ITEM NO.	
1	SEE NOTES 1,2,5,11	9	3PDT RELAY 48 DC WITH LED INDICATOR AND TEST BUTTON
2	3PDT RELAY 120VOLT WITH LED INDICATOR AND TEST BUTTON	10	FULL VOLTAGE PUSH TO TEST INDICATING LIGHT LIGHT WITH RED LENS AND RED LED
3	11 PIN SOCKET DIN RAIL MOUNT WITH HOLD DOWN SPRING	11	FULL VOLTAGE PUSH TO TEST INDICATING LIGHT WITH GREEN LENS AND GREEN LED
4	30AMP FUSE BLOCK 2 POLE CLASS CC	12	FULL VOLTAGE PUSH TO TEST INDICATING LIGHT WITH AMBER LENS AND AMBER PUSH TO TEST
5	CONTROL FUSE 10 AMPERE 1 ACTIVE, 1 SPARE	13	BLACK LEVER OPERATED 2 POSITION SELECTOR SWITCH 1 N.O. CONTACT BLOCK
6	3 POINT 30 AMPERE 600VOLT SCREW TYPE TERMINAL BLOCKS	14	BLACK PUSH BUTTON OPERATOR 1 N.O. CONTACT BLOCK
7	3 POINT LEVER HANDLE LOCK KEYED CAT 60	15	BLACK PUSH BUTTON OPERATOR 1 N.C. CONTACT BLOCK
8	WHITE NYLON WIRE DUCT 3 X 3 WITH COVER (NOTE 4)	16	SONALERT ALARM BUZZER CONTINUOUS TONE 120V AC 80dB









1 E-608 RELAY CONTROL PANEL (RCP) DETAILS
SCALE: 1/8" = 1'-0"

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GENERAL NOTES:

1. REFER TO SHEET E-001 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS. REFER TO SHEET E-002 FOR ELECTRICAL NOTES.
2. REFER TO PLATFORM INFRARED HEATER DIAGRAM ON SHEET E-604 FOR DISCONNECT RATING AND CONNECTIONS.
3. COORDINATE ELECTRICAL CONNECTION REQUIRMENTS FOR DCU AND DS UNITS WITH MECHANICAL CONTRACTOR.

EQUIPMENT SCHEDULE

TAG	DESCRIPTION	LOCATION	ELECTRICAL RATING							PANEL	COPPER WIRING	CONDUIT		DISCONNECT RATING				STARTER RATING		REMARKS
			LOAD		VOLTAGE	PHASE	FLA	MCA	MOCP			SIZE	TYPE	SIZE	FUSE	NEMA	FURNISHED BY	STARTER SIZE	STARTER FURNISHED BY	
			KW	HP	(V)															
CAB HEATER	ELEVATOR CAB HEATERS	ELEVATOR MACHINE ROOM	-	-	120	1	12.4	15	20	PP-EL-1	2#12, 1#12G	3/4"	RGS	30	15	4X	ELECTRICAL	-	ELECTRICAL	
CAB HEATER	ELEVATOR CAB HEATERS	ELEVATOR MACHINE ROOM	-	-	120	1	12.4	15	20	PP-EL-2	2#12, 1#12G	3/4"	RGS	30	15	4X	ELECTRICAL	-	ELECTRICAL	
CAB LTS	ELEVATOR CAB LIGHTS	ELEVATOR MACHINE ROOM	-	-	120	1	-	15	20	PP-EL-2	2#12, 1#12G	3/4"	RGS	30	15	4X	ELECTRICAL	-	ELECTRICAL	
CAB LTS	ELEVATOR CAB LIGHTS	ELEVATOR MACHINE ROOM	-	-	120	1	-	15	20	PP-EL-1	2#12, 1#12G	3/4"	RGS	30	15	4X	ELECTRICAL	-	ELECTRICAL	
DCU-1	DUCT FREE SPLIT SYSTEM CONDENSING UNIT	EXTERIOR OF ELEVATOR MACHINE ROOM	-	-	208	1	-	25	30	AC-1	2#10, 1#10G	3/4"	RGS	30	30	4X	MECHANICAL	-	MECHANICAL	
DCU-2	DUCT FREE SPLIT SYSTEM CONDENSING UNIT	EXTERIOR OF ELEVATOR MACHINE ROOM	-	-	208	1	-	25	30	AC-1	2#10, 1#10G	3/4"	RGS	30	30	4X	MECHANICAL	-	MECHANICAL	
DCU-3	DUCT FREE SPLIT SYSTEM CONDENSING UNIT	EXTERIOR OF ELECTRICAL ROOM	-	-	208	1	-	11	15	AC-1	2#12, 1#12G	3/4"	RGS	30	15	4X	MECHANICAL	-	MECHANICAL	
DCU-4	DUCT FREE SPLIT SYSTEM CONDENSING UNIT	EXTERIOR OF ELECTRICAL ROOM	-	-	208	1	-	11	15	AC-1	2#12, 1#12G	3/4"	RGS	30	15	4X	MECHANICAL	-	MECHANICAL	
DCU-5	DUCT FREE SPLIT SYSTEM CONDENSING UNIT	EXTERIOR OF ELEVATOR MACHINE ROOM	-	-	208	1	-	25	30	AC-1	2#10, 1#10G	3/4"	RGS	30	30	4X	MECHANICAL	-	MECHANICAL	
DCU-6	DUCT FREE SPLIT SYSTEM CONDENSING UNIT	EXTERIOR OF ELEVATOR MACHINE ROOM	-	-	208	1	-	25	30	AC-1	2#10, 1#10G	3/4"	RGS	30	30	4X	MECHANICAL	-	MECHANICAL	
DS-1	DUCT FREE SPLIT SYSTEM	ELEVATOR MACHINE ROOM	-	-	208	1	0.265	1	15	AC-1	2#12, 1#12G	3/4"	RGS	30	15	4X	MECHANICAL	-	MECHANICAL	
DS-2	DUCT FREE SPLIT SYSTEM	ELEVATOR MACHINE ROOM	-	-	208	1	0.265	1	15	AC-1	2#12, 1#12G	3/4"	RGS	30	15	4X	MECHANICAL	-	MECHANICAL	
DS-3	DUCT FREE SPLIT SYSTEM	ELECTRICAL ROOM	-	-	208	1	0.19	1	15	AC-1	2#12, 1#12G	3/4"	RGS	30	15	3R	MECHANICAL	-	MECHANICAL	
DS-4	DUCT FREE SPLIT SYSTEM	ELECTRICAL ROOM	-	-	208	1	0.19	1	15	AC-1	2#12, 1#12G	3/4"	RGS	30	15	3R	MECHANICAL	-	MECHANICAL	
DS-5	DUCT FREE SPLIT SYSTEM	ELEVATOR MACHINE ROOM	-	-	208	1	0.265	1	15	AC-1	2#12, 1#12G	3/4"	RGS	30	15	4X	MECHANICAL	-	MECHANICAL	
DS-6	DUCT FREE SPLIT SYSTEM	ELEVATOR MACHINE ROOM	-	-	208	1	0.265	1	15	AC-1	2#12, 1#12G	3/4"	RGS	30	15	4X	MECHANICAL	-	MECHANICAL	
EUH-1	ELECTRIC UNIT HEATER	ELEVATOR MACHINE ROOM	2.2	-	208	1	11	15	20	HP-1	2#12, 1#12G	3/4"	RGS	30	20	4X	ELECTRICAL	-	ELECTRICAL	
EUH-2	ELECTRIC UNIT HEATER	ELEVATOR MACHINE ROOM	2.2	-	208	1	11	15	20	HP-1	2#12, 1#12G	3/4"	RGS	30	20	4X	ELECTRICAL	-	ELECTRICAL	
EUH-3	ELECTRIC UNIT HEATER	ELECTRICAL ROOM	3	-	208	1	14.5	20	20	HP-1	2#12, 1#12G	3/4"	RGS	30	20	3R	ELECTRICAL	-	ELECTRICAL	
EUH-4	ELECTRIC UNIT HEATER	ELECTRICAL ROOM	3	-	208	1	14.5	20	20	HP-1	2#12, 1#12G	3/4"	RGS	30	20	3R	ELECTRICAL	-	ELECTRICAL	
EUH-5	ELECTRIC UNIT HEATER	ELEVATOR MACHINE ROOM	-	-	208	1	11	15	20	HP-1	2#12, 1#12G	3/4"	RGS	30	20	4X	ELECTRICAL	-	ELECTRICAL	
EUH-6	ELECTRIC UNIT HEATER	ELEVATOR MACHINE ROOM	-	-	208	1	11	15	20	HP-1	2#12, 1#12G	3/4"	RGS	30	20	4X	ELECTRICAL	-	ELECTRICAL	
EWH-1	ELECTRIC WALL HEATER	ELEVATOR #1 OUTBOUND	1.248	-	208	1	6	15	20	HP-1	2#12, 1#12G	3/4"	RGS	30	20	4X	ELECTRICAL	-	ELECTRICAL	
EWH-2	ELECTRIC WALL HEATER	ELEVATOR #1 OUTBOUND	1.248	-	208	1	6	15	20	HP-1	2#12, 1#12G	3/4"	RGS	30	20	4X	ELECTRICAL	-	ELECTRICAL	
EWH-3	ELECTRIC WALL HEATER	ELEVATOR #2 INBOUND	1.248	-	208	1	6	15	20	HP-1	2#12, 1#12G	3/4"	RGS	30	20	4X	ELECTRICAL	-	ELECTRICAL	
EWH-4	ELECTRIC WALL HEATER	ELEVATOR #2 INBOUND	1.248	-	208	1	6	15	20	HP-1	2#12, 1#12G	3/4"	RGS	30	20	4X	ELECTRICAL	-	ELECTRICAL	
IH-1A/B	INFRARED HEATERS	PLATFORM	6	-	208	1	28.85	40	40	HP-2	3#8, 1#10G	3/4"	RGS	60	40	4X	ELECTRICAL	-	ELECTRICAL	
IH-2A/B	INFRARED HEATERS	PLATFORM	6	-	208	1	28.85	40	40	HP-2	3#8, 1#10G	3/4"	RGS	60	40	4X	ELECTRICAL	-	ELECTRICAL	
IH-3A/B	INFRARED HEATERS	PLATFORM	6	-	208	1	28.85	40	40	HP-2	3#8, 1#10G	3/4"	RGS	60	40	4X	ELECTRICAL	-	ELECTRICAL	
IH-4A/B	INFRARED HEATERS	PLATFORM	6	-	208	1	28.85	40	40	HP-2	3#8, 1#10G	3/4"	RGS	60	40	4X	ELECTRICAL	-	ELECTRICAL	
INBND ELEV#2	INBOUND ELEVATOR #2 CONTROLLER	ELEVATOR MACHINE ROOM	-	75	208	3	221	300	300	PP-EL-2	3-250KCMIL, 1#2G	2"	RGS	400	300	4X	ELECTRICAL	-	ELECTRICAL	
OIL COOLER	OIL COOLER	ELEVATOR MACHINE ROOM	-	-	208	1	3.6	15	20	PP-EL-2	2#12, 1#12G	3/4"	RGS	30	15	4X	ELECTRICAL	-	MECHANICAL	
OIL COOLER	OIL COOLER	ELEVATOR MACHINE ROOM	-	-	208	1	3.6	15	20	PP-EL-1	2#12, 1#12G	3/4"	RGS	30	15	4X	ELECTRICAL	-	MECHANICAL	
OUTBND ELEV#1	OUTBOUND ELEVATOR #1 CONTROLLER	ELEVATOR MACHINE ROOM	-	75	208	3	221	300	300	PP-EL-1	3-250KCMIL, 1#2G	2"	RGS	400	300	4X	ELECTRICAL	-	ELECTRICAL	
SILL HEATER	ELEVATOR CAB SILL HEATER	ELEVATOR MACHINE ROOM	-	-	120	1	12.5	15	20	PP-EL-2	2#12, 1#12G	3/4"	RGS	30	15	4X	ELECTRICAL	-	ELECTRICAL	
SILL HEATER	ELEVATOR CAB SILL HEATER	ELEVATOR MACHINE ROOM	-	-	120	1	12.5	15	20	PP-EL-1	2#12, 1#12G	3/4"	RGS	30	15	4X	ELECTRICAL	-	ELECTRICAL	
SP-1	SUMP PUMP	ELEVATOR MACHINE ROOM	-	2	208	1	12	15	20	HP-1	2#12, 1#12G	3/4"	RGS	30	15	4X	ELECTRICAL	-	ELECTRICAL	
SP-2	SUMP PUMP	ELEVATOR MACHINE ROOM	-	2	208	1	12	15	20	HP-1	2#12, 1#12G	3/4"	RGS	30	15	4X	ELECTRICAL	-	ELECTRICAL	

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ALL STATIONS ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	AG
CHECKED BY	AF/AG/PD
DESIGNED BY	AG
DRAWN BY	AS/AG

MARK	DATE	DESCRIPTION
0	12/30/24	ISSUE FOR BID

MECHANICAL EQUIPMENT SCHEDULE

LSCAL | E-609

VOLUME: 1 OF 1

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LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER - CATALOG NUMBER			LAMP				
		MANUFACTURER I	MANUFACTURER II	MANUFACTURER III	TYPE	COLOR TEMPERATURE	LUMENS	INPUT WATTS	VOLTAGE
F1	1' X 4' SURFACE MOUNTED FIXTURE	KURTZON LIGHTING - (VL,IS)-1X4-2_LEDR-840-UNV	COOPER LIGHTING - 4VT3-LD5-5-G-UNV-L840-U	LITHONIA LIGHTING - VAP-6000LM-FST-MD-MVOLT-40K-80CRI-E15WCP	LED	4000 K	5458	55 W	120 V
F2	4' WALL MOUNTED LIGHT FIXTURE	LITHONIA LIGHTING - CSVT L48 4000LM MVOLT 4000K 80CRI	COOPER LIGHTING - 4VT3-LD5-4-G-UNV-L840-U	SAYLITE - 48L-Z32W3300L-40K-WH-WH	LED	4000 K	4164	34 W	120 V
F3	5" X 48" SURFACE MOUNTED FIXTURE	KENALL MFG CO. - TES5-48-45L50K-DCC-DV-5H-PP-SP	G&G INDUSTRIAL LIGHTING - PRX-4-45L-50K-120V	SAYLITE - 555-A-48L-Y48W6000L-50K-WH	LED	3500 K	4704	49 W	120 V
F4	OUTDOOR WALL PACK LIGHT FIXTURE	LITHONIA LIGHTING-TWP_LED_30C_700_50K_T3M_MVOLT	COOPER LIGHTING - WPSQLED-65-UNV-7050	CYBER TECH LIGHTING - LWP45FCO/850-BK	LED	5000 K	5207	67 W	120 V
X3	EXIT SIGN	LITHONIA LIGHTING - LXC-W-X-RW-XXX-EL	COOPER LIGHTING - CHX-7-X-XXX	KENALL - CAE-X-EX-XXX-DV-NC	LED	3000 K		5 W	120 V
X9	EXIT SIGN	LITHONIA LIGHTING - LXC-W-X-RW-XXX-EL	COOPER LIGHTING - CHX-7-X-XXX	KENALL - CAE-X-EX-XXX-DV-NC	LED	3000 K		5 W	120 V
X15	EXIT SIGN	LITHONIA LIGHTING - LXC-W-X-RW-XXX-EL	COOPER LIGHTING - CHX-7-X-XXX	KENALL - CAE-X-EX-XXX-DV-NC	LED	3000 K		5 W	120 V
X18	EXIT SIGN	LITHONIA LIGHTING - LXC-W-X-RW-XXX-EL	COOPER LIGHTING - CHX-7-X-XXX	KENALL - CAE-X-EX-XXX-DV-NC	LED	3000 K		5 W	120 V
X20	EXIT SIGN	LITHONIA LIGHTING - LXC-W-X-RW-XXX-EL	COOPER LIGHTING - CHX-7-X-XXX	KENALL - CAE-X-EX-XXX-DV-NC	LED	3000 K		5 W	120 V

NOTES:

1. REFER TO SHEET E-001 FOR EXIT SIGN TYPES AND NUMBER OF FACES.
2. PROVIDE INTEGRAL BATTERY FOR LIGHT FIXTURE DESIGNATED AS EMERGENCY FIXTURE ON PLAN.

FEEDER SCHEDULE - COPPER

AMPS	TAG	1 PHASE + NEUT + GND	TAG	2 PHASE + GND	TAG	3 PHASE	TAG	3 PHASE + NEUT	TAG	3 PHASE + NEUT + GND
20	100	2#12 &1#12 GND - 3/4" C	200	2#12 & 1#12 GND-3/4"C	300	3#12-3/4"C	321	4#12-3/4"C	342	4#12 & 1#12 GND-3/4"C
25	101	2#12 &1#12 GND - 3/4" C	201	2#12 & 1#12 GND-3/4"C	301	3#12-3/4"C	322	4#12-3/4"C	343	4#12 & 1#12 GND-3/4"C
35	102	2#10 &1#10 GND - 3/4" C	202	2#10 & 1#10 GND-3/4"C	302	3#10-3/4"C	323	4#10-3/4"C	344	4#10 & 1#10 GND-3/4"C
50	103	2#8 &1#10 GND - 3/4" C	203	2#8 & 1#10 GND-3/4"C	303	3#8-3/4"C	324	4#8-3/4"C	345	4#8 & 1#10 GND-3/4"C
65	104	N/A	204	N/A	304	3#6-3/4"C	325	4#6-3/4"C	346	4#6 & 1#8 GND-1 1/4"C
85	105	N/A	205	N/A	305	3#4-3/4"C	326	4#4-1"C	347	4#4 & 1#8 GND-1 1/4"C
100	106	N/A	206	N/A	306	3#3-1"C	327	4#3-1 1/4"C	348	4#3 & 1#8 GND-1 1/4"C
115	107	NA	207	N/A	307	3#2-1 1/4"C	328	4#2-1 1/4"C	349	4#2 & 1#6 GND-1 1/4"C
130	108	NA	208	N/A	308	3#1-1 1/4"C	329	4#1-1 1/2"C	350	4#1 & 1#6 GND-1 1/2"C
150	109	N/A	209	N/A	309	3#1/0-1 1/4"C	330	4#1/0-1 1/2"C	351	4#1/0 & 1#6 GND-2"C
175	110	N/A	210	N/A	310	3#2/0-1 1/2"C	331	4#2/0-2"C	352	4#2/0 & 1#6 GND-2"C
200	111	NA	211	N/A	311	3#3/0-1 1/2"C	332	4#3/0-2"C	353	4#3/0 & 1#6 GND-2"C
255	112	N/A	212	N/A	312	3#250 KCMIL-2"C	333	4#250 KCMIL-2 1/2"C	354	4#250 KCMIL & 1#4 GND-2 1/2"C
310	113	NA	213	NA	313	3#350 KCMIL -2 1/2"C	334	4#350 KCMIL -3"C	355	4#350 KCMIL & 1#2 GND-3"C
380	114	N/A	214	N/A	314	3#500 KCMIL-3"C	335	4#500 KCMIL-3"C	356	4#500 KCMIL & 1#3 GND-3 1/2"C
510	115	N/A	215	N/A	315	2 SETS OF: 3#250 KCMIL-2"C	336	2 SETS: 4#250 KCMIL-2 1/2"C	357	(2)SETS: 4#250 KCMIL & 1#2 GND-3"C
620	116	N/A	216	N/A	316	2 SETS OF: 3#350 KCMIL-2 1/2"C	337	2 SETS OF: 4#350 KCMIL-3"C	358	2 SETS: 4#350 KCMIL & 1#1-3 1/2"C
760	117	N/A	217	N/A	317	2 SETS OF: 3#500 KCMIL-3"C	338	2 SETS OF: 4#500 KCMIL-3"C	359	2 SETS OF: 4#500 KCMIL & 1#1/0 GND-3 1/2"C
1005	118	N/A	218	N/A	318	3 SETS OF: 3#400 KCMIL-2 1/2"C	339	3 SETS OF: 4#400 KCMIL-3"C	360	3 SETS OF: 4#400 KCMIL & 1#2/0 GND-3 1/2"C
1260	119	N/A	219	N/A	319	3 SETS OF: 3#600 KCMIL-3"C	340	3 SETS OF: 4#600 KCMIL-3 1/2"C	361	3 SETS OF: 4#600 KCMIL & 1#3/0 GND-4"C
1680	120	N/A	220	N/A	320	4 SETS OF: 3#600 KCMIL-3"C	341	4 SETS OF: 4#600 KCMIL-3 1/2"C	362	4 SETS OF: 4#600 KCMIL & 1#4/0 GND-4"C

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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS
ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	AG
CHECKED BY	AF/AG/PD
DESIGNED BY	AG
DRAWN BY	AS/AG

MARK	DATE	DESCRIPTION
0	12/30/24	ISSUE FOR BID

ELECTRICAL SCHEDULES

LSCAL | E-610

VOLUME: 1 OF 1

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Branch Panel: DP-1

Location: ELECTRICAL ROOM 5
Supply From: MAIN SWITCHBOARD
Mounting: SURFACE
Enclosure: TYPE 4X

Volts: 120/208V
Phases: 3
Wires: 4

A.I.C. Rating: 65,000
Mains Type: MCB
Mains Rating: 400 A
MCB Rating: 300 A

Notes:

NEW - EARTH GROUND

CKT	Description	Trip (A)	Poles	A(VA)		B(VA)		C(VA)		Poles	Trip (A)	Description	CKT
1				1159	9048								2
3	LP-1	100 A	3			1165	8320			3	100 A	HP-1	4
5								1296	7800				6
7				2206	8182								8
9	PP-1	100 A	3			2109	6086			3	150 A	AC-1	10
11								2044	6336				12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	FCEP *	100 A	2			4200	0			1	20 A	SPARE	16
17								4000	2496				18
19				3000	2496					2	30 A	FACP	20
21	HP-3	100 A	3			1800	0			1	20 A	SPARE	22
23								2300	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	0					1	20 A	SPARE	26
27	SPARE	20 A	1			0	0			1	20 A	SPARE	28
29	SPARE	20 A	1					0	0	1	20 A	SPARE	30
		Total Load:		26084 VA		23668 VA		26263 VA					
		Total Amps:		220 A		197 A		222 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	1141 VA	100.00%	1141 VA		
Other	15 VA	100.00%	15 VA	**Total Conn. Load:**	71023 VA
Power	63772 VA	100.00%	63772 VA	**Total Est. Demand:**	71023 VA
Spare	2096 VA	100.00%	2096 VA	**Total Conn. Current:**	197 A
Receptacle	4140 VA	100.00%	4140 VA	**Total Est. Demand Current:**	197 A

Notes:

* EXISTING DEVICE/EQUIPMENT TO REMAIN. TRANSFER CIRCUIT FROM EXISTING PANEL LP-RP TO NEW PANEL DP-1. PROVIDE NEW CONDUIT AND WIRING AS NECESSARY.

Branch Panel: AC-1

Location: ELECTRICAL ROOM 5
Supply From: DP-1
Mounting: SURFACE
Enclosure: TYPE 4X

Volts: 120/208V
Phases: 3
Wires: 4

A.I.C. Rating: 65,000
Mains Type: MCB
Mains Rating: 150 A
MCB Rating: 150 A

Notes:

NEW - EARTH GROUND

CKT	Circuit Description	Trip	Poles	A(VA)		B(VA)		C(VA)		Poles	Trip	Circuit Description	CKT
1	DS-1	15 A	2	28	28					2	15 A	DS-2	2
3						28	28						4
5	DCU-1	30 A	2					2080	2080	2	30 A	DCU-2	6
7				2080	2080								8
9	DS-3	15 A	2			20	20			2	15 A	DS-4	10
11								20	20				12
13	DCU-3	15 A	2	915	915					2	15 A	DCU-4	14
15						915	915						16
17	DS-5	15 A	2					28	28	2	15 A	DS-6	18
19				28	28								20
21	DCU-5	30 A	2			2080	0			1	20 A	SPARE	22
23								2080	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	2080					2	30 A	DCU-6	26
27	SPARE	20 A	1			0	2080						28
29	SPARE	20 A	1					0	0	1	20 A	SPARE	30
31	SPACE	--	1	--	--					1	--	SPACE	32
33	SPACE	--	1			--	--			1	--	SPACE	34
35	SPACE	--	1					--	--	1	--	SPACE	36
37	SPACE	--	1	--	--					1	--	SPACE	38
39	SPACE	--	1			--	--			1	--	SPACE	40
41	SPACE	--	1					--	--	1	--	SPACE	42
		Total Load:		8182 VA		6086 VA		6336 VA					
		Total Amps:		69 A		51 A		53 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Power	20604 VA	100.00%	20604 VA		
				Total Conn. Load:	20604 VA
				Total Est. Demand:	20604 VA
				Total Conn. Current:	57 A
				Total Est. Demand Current:	57 A

Notes:

Branch Panel: HP-1

Location: ELECTRICAL ROOM 5
Supply From: DP-1
Mounting: SURFACE
Enclosure: TYPE 4X

Volts: 120/208V
Phases: 3
Wires: 4

A.I.C. Rating: 65,000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

Notes:

NEW - EARTH GROUND

CKT	Circuit Description	Trip	Poles	A(VA)		B(VA)		C(VA)		Poles	Trip	Circuit Description	CKT
1	EUH-1	20 A	2	1144	1144					2	20 A	EUH-2	2
3						1144	1144						4
5	EUH-3	20 A	2					1508	1508	2	20 A	EUH-4	6
7				1508	1508								8
9	EUH-5	20 A	2			1144	1144			2	20 A	EUH-6	10
11								1144	1144				12
13	SP-1	20 A	2	1248	1248					2	20 A	SP-2	14
15						1248	1248						16
17	EWH-1	20 A	2					624	624	2	20 A	EWH-2	18
19				624	624								20
21	EWH-3	20 A	2			624	624			2	20 A	EWH-4	22
23								624	624				24
25	SPARE	20 A	1	0	0					1	20 A	SPARE	26
27	SPARE	20 A	1			0	0			1	20 A	SPARE	28
29	SPARE	20 A	1					0	0	1	20 A	SPARE	30
31	SPARE	20 A	1	0	0					1	20 A	SPARE	32
33	SPACE	--	1			--	--			1	--	SPACE	34
35	SPACE	--	1					--	--	1	--	SPACE	36
37	SPACE	--	1	--	--					1	--	SPACE	38
39	SPACE	--	1			--	--			1	--	SPACE	40
41	SPACE	--	1					--	--	1	--	SPACE	42
		Total Load:		9048 VA		8320 VA		7800 VA					
		Total Amps:		76 A		70 A		65 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Power	25168 VA	100.00%	25168 VA		
				Total Conn. Load:	25168 VA
				Total Est. Demand:	25168 VA
				Total Conn. Current:	70 A
				Total Est. Demand Current:	70 A

Notes:

Branch Panel: LP-1

Location: ELECTRICAL ROOM 5
Supply From: DP-1
Mounting: SURFACE
Enclosure: TYPE 4X

Volts: 120/208V
Phases: 3
Wires: 4

A.I.C. Rating: 65,000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

Notes:

NEW - EARTH GROUND

CKT	Circuit Description	Trip (A)	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip (A)	Circuit Description	CKT
1	ELECTRICAL AND ELEV ROOM LTG	20 A	1	142	1080					1	20 A	ELECTRICAL AND ELEV ROOM RECP	2
3	ELECTRICAL AND ELEV ROOM LTG	20 A	1			185	1080			1	20 A	ELECTRICAL AND ELEV ROOM RECP.	4
5	SPARE	20 A	1					0	1296	1	30 A	ENTRY PLAZA AND REAR SECURITY LTS *	6
7	SPARE	20 A	1	0	0					1	20 A	SPARE	8
9	SPARE	20 A	1			0	0			1	20 A	SPARE	10
11	SPARE	20 A	1					0	0	1	20 A	SPARE	12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	SPARE	20 A	1					0	0	1	20 A	SPARE	24
		Total Load:		1159 VA		1165 VA		1296 VA					
		Total Amps:		10 A		10 A		11 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	326 VA	100.00%	326 VA		
Spare	1296 VA	100.00%	1296 VA	**Total Conn. Load:**	3612 VA
Receptacle	2160 VA	100.00%	2160 VA	**Total Est. Demand:**	3612 VA
				Total Conn. Current:	10 A
				Total Est. Demand Current:	10 A

Notes:

* EXISTING DEVICE/EQUIPMENT TO REMAIN. TRANSFER CIRCUIT FROM EXISTING PANEL LP-RP TO NEW PANEL PP-1. PROVIDE NEW CONDUIT AND WIRING AS NECESSARY.

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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	AG
CHECKED BY	AF/AG/PD
DESIGNED BY	AG
DRAWN BY	AS/AG

MARK	DATE	DESCRIPTION
0	12/30/24	ISSUE FOR BID

ELECTRICAL PANEL SCHEDULES

LSCAL | E-611

VOLUME: 1 OF 1

11/5/2024 2:54:09 PM

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Branch Panel: PP-1

Location: ELEC CLOSET 1D
Supply From: DP-1
Mounting: SURFACE
Enclosure: TYPE 4X

Volts: 120/208V
Phases: 3
Wires: 4

A.I.C. Rating: 65,000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

Notes:

NEW - EARTH GROUND

CKT	Circuit Description	Trip (A)	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip (A)	Circuit Description	CKT
1	EXIT SIGNS *	20 A	1	15	494					1	20 A	BATHROOM / MISC LTS AND EX FANS *	2
3	STORAGE, TLT RM AND ELEC CLOSET RECP. *	20 A	1			900	1000			1	20 A	ATM *	4
5	STATION HOUSE LIGHTS *	20 A	1					637	500	1	20 A	DOOR OPERATOR *	6
7	NEW DOOR OPERATOR	20 A	1	500	1200					1	20 A	DIGITAL DISPLAY SCREEN	8
9	INBOUND ELEVATOR #2 PIT LIGHT	20 A	1			209	0			1	20 A	SPARE	10
11	OUTBOUND ELEVATOR #1 PIT LIGHT	20 A	1					209	720	1	20 A	STATION HOUSE RECEPTACLES *	12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	SPARE	20 A	1					0	0	1	20 A	SPARE	24
		Total Load:		2206 VA		2109 VA		2044 VA					
		Total Amps:		18 A		18 A		17 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	892 VA	100.00%	892 VA		
Other	15 VA	100.00%	15 VA	**Total Conn. Load:**	6354 VA
Power	3500 VA	100.00%	3500 VA	**Total Est. Demand:**	6354 VA
Receptacle	1980 VA	100.00%	1980 VA	**Total Conn. Current:**	18 A
				Total Est. Demand Current:	18 A

Notes:

* EXISTING DEVICE/EQUIPMENT TO REMAIN. TRANSFER CIRCUIT FROM EXISTING PANEL LP-RP TO NEW PANEL PP-1. PROVIDE NEW CONDUIT AND WIRING AS NECESSARY.

Branch Panel: FCEP

Location: ELEC CLOSET 1D
Supply From: DP-1
Mounting: SURFACE
Enclosure: EXISTING

Volts: 120/208 V
Phases: 1
Wires: 3

A.I.C. Rating: EXISTING
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 40 A

Notes:

EXISTING - EARTH GROUND

CKT	Circuit Description	Trip (A)	Poles	B (VA)		C (VA)		Poles	Trip (A)	Circuit Description	CKT
1	EC/SC - FAREGATE 1,2	20 A	1	800	800			1	20 A	VENTRA MACHINE-1	2
3	EC/SC - FAREGATE 3,4	20 A	1			800	800	1	20 A	SIC	4
5	SPARE	20 A	1	0	800			1	20 A	VENTRA MACHINE-2	6
7	TT'S	20 A	1			800	0	1	20 A	SPARE	8
9	TT'S	20 A	1	800	1000			1	20 A	EVM	10
11	VENTRA MACHINE-3	20 A	1			800	800	1	20 A	HIGH BARRIER GATE *	12
		Total Load:		4200 VA		4000 VA					
		Total Amps:		40 A		38 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Power	7400 VA	100.00%	7400 VA		
Spare	800 VA	100.00%	800 VA	**Total Conn. Load:**	8200 VA
				Total Est. Demand:	8200 VA
				Total Conn. Current:	39 A
				Total Est. Demand Current:	39 A

Notes:

* RELOCATE CONDUIT, CABLE AND JUNCTION BOX FOR HIGH BARRIER GATE TO NEW LOCATION PER PROPOSED STATION POWER PLAN.

Branch Panel: HP-3

Location: ELEC CLOSET 1D
Supply From: DP-1
Mounting: SURFACE
Enclosure: TYPE 4X

Volts: 120/208V
Phases: 3
Wires: 4

A.I.C. Rating: 65,000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

Notes:

NEW - EARTH GROUND

CKT	Circuit Description	Trip (A)	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip (A)	Circuit Description	CKT
1	EUH-3 MOP ROOM HEATER *	20 A	1	1500	1500					1	20 A	EUH-1 TOILET HEATER *	2
3	EDH-1 TOILET HAND DRYER *	20 A	1			1000	800			2	20 A	IH-1 STATION HOUSE PEOPLE HEATER *	4
5	EUH-2 CA KIOSK HEATER *	20 A	1					1500	800				6
7	SPARE	20 A	1	0	0					1	20 A	SPARE	8
9	SPARE	20 A	1			0	0			1	20 A	SPARE	10
11	SPARE	20 A	1					0	0	1	20 A	SPARE	12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	SPARE	20 A	1					0	0	1	20 A	Spare	24
		Total Load:		3000 VA		1800 VA		2300 VA					
		Total Amps:		26 A		15 A		20 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Power	7100 VA	100.00%	7100 VA		
				Total Conn. Load:	7100 VA
				Total Est. Demand:	7100 VA
				Total Conn. Current:	20 A
				Total Est. Demand Current:	20 A

Notes:

* EXISTING DEVICE/EQUIPMENT TO REMAIN. TRANSFER CIRCUIT FROM EXISTING PANEL HP TO NEW PANEL HP-3. PROVIDE NEW CONDUIT AND WIRING AS NECESSARY.

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DRAWN BY	AS/AG

MARK	DATE	DESCRIPTION
0	12/30/24	ISSUE FOR BID

ELECTRICAL PANEL SCHEDULES

LSCAL | E-612

VOLUME: 1 OF 1

11/5/2024 2:54:10 PM

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Branch Panel: HP-2

Location: ELECTRICAL ROOM 5
Supply From: MAIN SWITCHBOARD
Mounting: SURFACE
Enclosure: TYPE 4X

Volts: 120/208V
Phases: 3
Wires: 4

A.I.C. Rating: 65,000
Mains Type: MCB
Mains Rating: 225 A
MCB Rating: 225 A

Notes:

NEW - PLATFORM GROUND

CKT	Circuit Description	Trip	Poles	A(VA)		B(VA)		C(VA)		Poles	Trip	Circuit Description	CKT
1	INFRARED HEATERS IH-1A&1B	40 A	2	3000	3000					2	40 A	INFRARED HEATERS IH-3A&3B	2
3						3000	3000						4
5	INFRARED HEATERS IH-2A&2B	40 A	2					3000	3000	2	40 A	INFRARED HEATERS IH-4A&4B	6
7				3000	3000								8
9	SPARE	20 A	1			0	0			1	20 A	SPARE	10
11	SPARE	20 A	1					0	0	1	20 A	SPARE	12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	SPARE	20 A	1					0	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	0					1	20 A	SPARE	26
27	SPARE	20 A	1			0	0			1	20 A	SPARE	28
29	SPARE	20 A	1					0	0	1	20 A	SPARE	30
31	SPARE	20 A	1	0	0					1	20 A	SPARE	32
33	SPACE	--	1			--	--			1	--	SPACE	34
35	SPACE	--	1					--	--	1	--	SPACE	36
37	SPACE	--	1	--	--					1	--	SPACE	38
39	SPACE	--	1			--	--			1	--	SPACE	40
41	SPACE	--	1					--	--	1	--	SPACE	42
		Total Load:		12000 VA		6000 VA		6000 VA					
		Total Amps:		100 A		50 A		50 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Power	24000 VA	100.00%	24000 VA		
				Total Conn. Load:	24000 VA
				Total Est. Demand:	24000 VA
				Total Conn. Current:	67 A
				Total Est. Demand Current:	67 A

Notes:

Branch Panel: LP-2

Location: ELECTRICAL ROOM 5
Supply From: MAIN SWITCHBOARD
Mounting: SURFACE
Enclosure: TYPE 4X

Volts: 120/208V
Phases: 3
Wires: 4

A.I.C. Rating: 65,000
Mains Type: MCB
Mains Rating: 225 A
MCB Rating: 225 A

Notes:

NEW - PLATFORM GROUND

CKT	Circuit Description	Trip	Poles	A(VA)		B(VA)		C(VA)		Poles	Trip	Circuit Description	CKT
1	EXISTING ENTRY PLAZA / REAR SECURITY...	20 A	1	1296	924					1	20 A	PLATFORM CANOPY LTS	2
3	ST GEORGES CT STAIR AND CANOPY LTS	20 A	1			493	658			1	20 A	INBOUND LIGHTS *	4
5	ST GEORGES CT STAIR AND CANOPY LTS	20 A	1					493	885	1	20 A	PLATFORM CANOPY LTS	6
7	PLATFORM EXIT SIGNS	20 A	1	20	0					1	15 A	LIGHTING CONTACTOR	8
9	OUTBOUND LIGHTS *	20 A	1			1504	750			1	20 A	ILLUMINATED SIGNAGE	10
11	OUTBOUND LIGHTS	20 A	1					1598	500	1	20 A	ILLUMINATED SIGNAGE	12
13	INBOUND LIGHTS	20 A	1	1598	250					1	20 A	ILLUMINATED SIGNAGE	14
15	ILLUMINATED SIGNAGE	20 A	1			250	10			1	20 A	EXIT SIGNS *	16
17	ILLUMINATED SIGNAGE	20 A	1					250	250	1	20 A	ILLUMINATED SIGNAGE	18
19	ILLUMINATED SIGNAGE	20 A	1	250	250					1	20 A	ILLUMINATED SIGNAGE	20
21	INBOUND PLATFORM NORTH RECEPTS.	20 A	1			360	360			1	20 A	INBOUND PLATFORM SOUTH RECEPTS.	22
23	OUTBOUND PLATFORM NORTH RECEPTS.	20 A	1					360	360	1	20 A	OUTBOUND PLATFORM SOUTH RECEPTS.	24
25	SPARE	20 A	1	0	0					1	20 A	SPARE	26
27	SPARE	20 A	1			0	0			1	20 A	SPARE	28
29	SPARE	20 A	1					0	0	1	20 A	SPARE	30
31	SPARE	20 A	1	0	0					1	20 A	SPARE	32
33	SPARE	20 A	1			0	0			1	20 A	SPARE	34
35	SPARE	20 A	1					0	0	1	20 A	SPARE	36
37	SPARE	20 A	1	0	0					1	20 A	SPARE	38
39	SPARE	20 A	1			0	0			1	20 A	SPARE	40
41	SPARE	20 A	1					0	0	1	20 A	SPARE	42
		Total Load:		4543 VA		4385 VA		4695 VA					
		Total Amps:		38 A		37 A		39 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	5388 VA	100.00%	5388 VA		
Power	2750 VA	100.00%	2750 VA	**Total Conn. Load:**	13611 VA
Lighting	4050 VA	100.00%	4050 VA	**Total Est. Demand:**	13611 VA
Receptacle	1440 VA	100.00%	1440 VA	**Total Conn. Current:**	38 A
				Total Est. Demand Current:	38 A

Notes:
* EXISTING DEVICE/EQUIPMENT TO REMAIN. TRANSFER CIRCUIT FROM EXISTING PANEL LP-RP TO NEW PANEL LP-2. PROVIDE NEW CONDUIT AND WIRING AS NECESSARY.

Branch Panel: PP-EL-1

Location: OUTBOUND ELEV MACHINE...
Supply From: MAIN SWITCHBOARD
Mounting: SURFACE
Enclosure: TYPE 4X

Volts: 120/208V
Phases: 3
Wires: 4

A.I.C. Rating: 65,000
Mains Type: MCB
Mains Rating: 400 A
MCB Rating: 400 A

Notes:

NEW - PLATFORM GROUND

CKT	Circuit Description	Trip	Poles	A(VA)		B(VA)		C(VA)		Poles	Trip	Circuit Description	CKT
1				26508	375					2	20 A	OUTBOUND ELEVATOR #1 OIL COOLER	2
3	OUTBOUND ELEVATOR #1	300 A	3			26508	375						4
5								26508	0	1	20 A	SPARE	6
7	OUTBOUND ELEVATOR #1 CAB LIGHTS	20 A	1	200	1488					1	20 A	OUTBOUND ELEVATOR #1 CAB HEATER	8
9	SPARE	20 A	1			0	1500			1	20 A	OUTBOUND ELEVATOR #1 SILL HEATER	10
11	SPARE	20 A	1					0	0	1	20 A	SPARE	12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	SPARE	20 A	1					0	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	0					1	20 A	SPARE	26
27	SPACE	--	1			--	--			1	--	SPACE	28
29	SPACE	--	1					--	--	1	--	SPACE	30
31	SPACE	--	1	--	--					1	--	SPACE	32
33	SPACE	--	1			--	--			1	--	SPACE	34
35	SPACE	--	1					--	--	1	--	SPACE	36
37	SPACE	--	1	--	--					1	--	SPACE	38
39	SPACE	--	1			--	--			1	--	SPACE	40
41	SPACE	--	1					--	--	1	--	SPACE	42
		Total Load:		28571 VA		28383 VA		26508 VA					
		Total Amps:		240 A		239 A		221 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Power	83462 VA	100.00%	83462 VA		
				Total Conn. Load:	83462 VA
				Total Est. Demand:	83462 VA
				Total Conn. Current:	232 A
				Total Est. Demand Current:	232 A

Notes:

Branch Panel: PP-EL-2

Location: INBOUND ELEV MACHINE...
Supply From: MAIN SWITCHBOARD
Mounting: SURFACE
Enclosure: TYPE 4X

Volts: 120/208V
Phases: 3
Wires: 4

A.I.C. Rating: 65,000
Mains Type: MCB
Mains Rating: 400 A
MCB Rating: 400 A

Notes:

NEW - PLATFORM GROUND

CKT	Circuit Description	Trip	Poles	A(VA)		B(VA)		C(VA)		Poles	Trip	Circuit Description	CKT
1				26508	375					2	20 A	INBOUND ELEVATOR #2 OIL COOLER	2
3	INBOUND ELEVATOR #2	300 A	3			26508	375						4
5								26508	0	1	20 A	SPARE	6
7	INBOUND ELEVATOR #2 CAB LIGHTS	20 A	1	200	1488					1	20 A	INBOUND ELEVATOR #2 CAB HEATER	8
9	SPARE	20 A	1			0	1500			1	20 A	INBOUND ELEVATOR #2 SILL HEATER	10
11	SPARE	20 A	1					0	0	1	20 A	SPARE	12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	SPARE	20 A	1					0	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	0					1	20 A	SPARE	26
27	SPACE	--	1			--	--			1	--	SPACE	28
29	SPACE	--	1					--	--	1	--	SPACE	30
31	SPACE	--	1	--	--					1	--	SPACE	32
33	SPACE	--	1			--	--			1	--	SPACE	34
35	SPACE	--	1					--	--	1	--	SPACE	36
37	SPACE	--	1	--	--					1	--	SPACE	38
39	SPACE	--	1			--	--			1	--	SPACE	40
41	SPACE	--	1					--	--	1	--	SPACE	42
		Total Load:		28571 VA		28383 VA		26508 VA					
		Total Amps:		240 A		239 A		221 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Power	83462 VA	100.00%	83462 VA		
				Total Conn. Load:	83462 VA
				Total Est. Demand:	83462 VA
				Total Conn. Current:	232 A
				Total Est. Demand Current:	232 A

Notes:

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ALL STATIONS ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	AG
CHECKED BY	AF/AG/PD
DESIGNED BY	AG
DRAWN BY	AS/AG

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ELECTRICAL PANEL SCHEDULES

LSCAL | E-613

VOLUME: 1 OF 1

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ABBREVIATIONS

2W FXO	2 WIRE FOREIGN EXCHANGE OFFICE
2W FXS	2 WIRE FOREIGN EXCHANGE SUBSCRIBER
4W E&M	4 WIRE E&M
ADA	AMERICANS WITH DISABILITIES ACT
AWG	AMERICAN WIRE GAUGE
AT&T	AMERICAN TELEPHONE & TELEGRAPH
A	AMPERE
AH	AMPERE HOUR
AUX.	AUXILIARY
BT.	BENT
CAB.	CABINET
CA.	CABLE
CTR	CENTER
C/L	CENTER LINE
CU PBX	CENTRAL UNIT PBX
CB	CHANNEL BANK
CTA	CHICAGO TRANSIT AUTHORITY
CIRC.	CIRCUIT
C.	CONDUIT
CONT.	CONTINUOUS, CONTROLLER
CC	CONTROL CENTER
CU.	COPPER
CA	CUSTOMER ASSISTANT
CAS	CUSTOMER ASSISTANCE STATION
DPP	DATA PATCH PANEL
D.E.	DEAD END
DIA	DIAMETER
DACS	DIGITAL ACCESS AND CROSSCONNECT SWITCH
DSX - 1	DIGITAL SIGNAL CROSSCONNECT PANEL FOR DS - 1 SWITCH
DS - 0	DIGITAL SIGNAL RATE 0 (64 Kbps)
DS - 1	DIGITAL SIGNAL RATE 1 (1.544 Mbps)
DIM.	DIMENSION
DC	DIRECT CURRENT
DWG	DRAWING
E	EXISTING TO REMAIN
EA	EACH
EQ	EQUIPMENT
FDF	FIBER DISTRIBUTION FRAME
FDP	FIBER DISTRIBUTION PANEL
FO	FIBER OPTIC
FID	FIBER OPTIC CABLE IN INNERDUCT
FOCS	FIBER OPTIC COMMUNICATION SYSTEM
FSE	FIBER SLACK ENCLOSURE
FRE	FIBERGLASS EPOXY CONDUIT
FIN. FL.	FINISHED FLOOR
FTG	FITTING
FL, FLR	FLOOR
GALV	GALVANIZED
GRS	GALVANIZED RIGID STEEL
GRD	GROUND
HTR	HEATER
IB	INBOUND
J.B.	JUNCTION BOX
LK, LAK	LAKE
LTG	LIGHTING
L	LONG
LSZH	LOW SMOKE ZERO HALOGEN
MFD	MAIN DISTRIBUTION FRAME
M.H.	MANHOLE
MFGR	MANUFACTURER
MAX.	MAXIMUM
MB	MEASURED BUSINESS TELEPHONE LINE SERVICE
MIC.	MICROPHONE
MTD	MOUNTED
N	NEW
NES	NODAL EQUIPMENT SHELTER
N.I.C.	NOT IN CONTRACT
NOM.	NOMINAL
N.B.	NORTH BOUND
N.T.S.	NOT TO SCALE
OCU/DP	OFFICE CHANNEL UNIT/DATA PROCESSOR
OC - 1	OPTICAL CARRIER RATE 1 (51 Mbps)
OC - 3	OPTICAL CARRIER RATE 3 (155 Mbps)
OB	OUTBOUND
PR	PAIR
PNL	PANEL
PTE	PATCH TO EQUIPMENT
P	PRIMARY
PBX	PRIVATE BRANCH EXCHANGE
PA	PUBLIC ACCESS
R	RELOCATED
RASC	READY ACCESS SPLICE CLOSURE (COPPER)
RX	RECEIVER
RH	RELAY HOUSE
RTU	REMOTE TERMINAL UNIT
RD TEL	RINGDOWN TELEPHONE
RM	ROOM
S	SECONDARY
SHT. NO.	SHEET NUMBER
SHP	SHOP
S.B.	SOUTH BOUND
SU PBX	SOUTH UNIT PBX
SC	SPLICE CABINET
STD.	STANDARD
STA.	STATION
SS	SUBSTATION, STAINLESS STEEL
SCADA	SUPERVISORY CONTROL AND DATA ACQUISITION
SONET	SYNCHRONOUS OPTICAL NETWORK
TTY	TELEPHONE - TYPEWRITER
T	TELEPHONE
TEL	TELEPHONE INSTRUMENT
TTC	TELEPHONE TERMINAL CABINET
TB	TERMINAL BLOCK
TIP	TERMINATE IN PANEL
TO	TRANSMIT ONLY
TRANS	TRANSPORTATION
TRK.	TRACK
TX	TRANSMITTER
TWP	TWISTED WIRE PAIR
TYP.	TYPICAL
VMS	VARIABLE MESSAGE SIGN - PA ADA VISUAL SIGN
V	VOLT
VAC	VOLTS ALTERNATING CURRENT
VDC	VOLTS DIRECT CURRENT
W	WATT
W/	WITH

GENERAL NOTES

1. ALL CABLE PLACEMENT SHOWN ON THE CONTRACT DRAWINGS IS SCHEMATIC ONLY. CONTRACTOR TO MAKE APPROPRIATE ADJUSTMENTS TO CLEAR OBSTRUCTIONS IN THE PATH.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND IDENTIFY ALL EXISTING CABLES AND UTILITIES BEFORE COMMENCEMENT OF CONSTRUCTION.
3. MID SPAN SPLICES OF THE FIBER OPTIC CABLE ARE NOT ALLOWED. ALL CABLE RUNS TO BE CONTINUOUS BETWEEN SUBSTATIONS AND DESIGNATED LOCATIONS UNLESS DIRECTED BY THE ENGINEER.
4. CONTRACTOR TO REQUEST AND NOTIFY CTA OF ANY AND ALL SERVICE INTERRUPTION.
5. CONTRACTOR TO REMOVE AND SALVAGE DAS SIGNS.
6. CONTRACTOR TO COORDINATE FINAL INSTALLATION LOCATION OF DMS SIGNS, CAMERAS AND SPEAKERS WITH CTA COMMUNICATIONS.
7. CONTRACTOR TO REMOVE OBSOLETE HORN SPEAKERS.
8. CTA FORCES TO TAKE DOWN THE EXISTING CAMERAS.
9. CONTRACTOR TO FAMILIARIZE THEMSELVES WITH THE NEW TYPE OF CAMERAS AND INSTALLATION METHOD.
10. CONTRACTOR TO COORDINATE TEMPORARY RELOCATION OF EXISTING COMMUNICATIONS CABLES, DMS SIGNS, CAMERAS, AND SPEAKERS AND CORRESPONDING CABLING WITH CTA COMMUNICATIONS TO MAINTAIN SERVICE FOR THESE ELEMENTS THROUGHOUT DEMOLITION AND CONSTRUCTION.

CABLE PLAN SYMBOLS

- EXISTING CONDUIT WITH NEW FIBER AND COPPER CABLE WITHIN DUCT
- NEW DUCT WITH FIBER AND COPPER CABLE WITHIN DUCT
- NEW FIBER AND COPPER CABLE
- TELEPHONE - CTA PBX SYSTEM
- VOICE/DATA JACK
- J — JUNCTION BOX
- 362+00 — STATIONING OR STATION CHAINING
- CAMERA
- PTZ — PTZ CAMERA
- HPT — HELP POINT TELEPHONE
- ID — INTRUSION DETECTION
- DC — DOOR CONTACT
- MIC — MICROPHONE
- CONDUIT OR CABLE TURNING AWAY OR DOWN
- CONDUIT OR CABLE TURNING UPWARD
- S — CEILING MOUNTED SPEAKER
- NS — NOISE SENSOR
- BL — BLUE LIGHT
- DMS — DYNAMIC MESSAGE SIGN
- T — CTA TELEPHONE IN LOCKED BOX
- S — HORN SPEAKER, MOUNTING BRACKET
- HUB — COMMUNICATIONS HUB
- S — EXISTING SPEAKER

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ALL STATIONS
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COMMUNICATIONS SYMBOL LIST, ABBREVIATIONS AND GENERAL NOTES

LSCAL | T-001

VOLUME: 1 OF 1

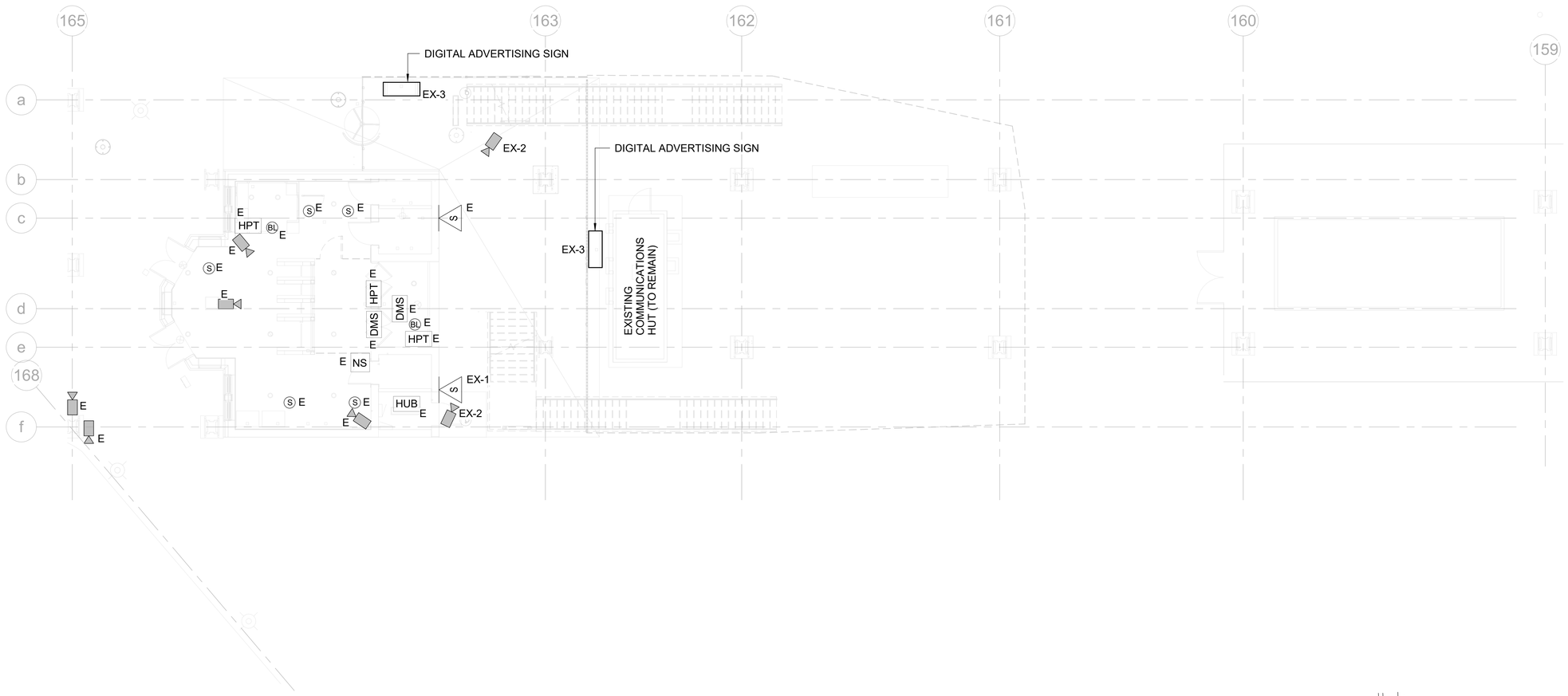
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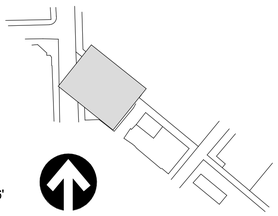
1. REFER TO SHEET T-001 FOR COMMUNICATIONS SYMBOLS, ABBREVIATIONS AND NOTES.
2. EXISTING SPEAKERS, CAMERAS AND COMMUNICATION DEVICES SHALL REMAIN FUNCTIONAL.

KEY NOTES: (EX-#)

1. THE CONTRACTOR SHALL DISCONNECT AND RELOCATE EXISTING SPEAKER. REMOVE EXISTING CONDUIT TO NEAREST JUNCTION BOX AND PULL CABLE BACK TO NEAREST HUB. REFER TO SHEET T-101 FOR NEW LOCATION.
2. CTA SHALL DISCONNECT AND REMOVE EXISTING CAMERAS. THE CONTRACTOR SHALL REMOVE EXISTING CONDUIT TO NEAREST JUNCTION BOX AND PULL CABLE BACK TO NEAREST HUB. REFER TO SHEET T-101 FOR NEW LOCATION.
3. THE CONTRACTOR SHALL DISCONNECT AND RELOCATE EXISTING DIGITAL ADVERTISING SIGN. REMOVE EXISTING CONDUIT TO NEAREST JUNCTION BOX AND PULL CABLE BACK TO NEAREST HUB. REFER TO SHEET T-101 FOR NEW LOCATION. PROVIDE NEW JUNCTION BOX AND ASSOCIATED SUPPORTS, CONDUIT AND CABLES.



1 / TD-101 STATION COMMUNICATIONS DEMO PLAN
SCALE: 1/8" = 1'-0"



0 4' 8' 16'
SCALE: 1/8"=1'-0"

NORTH

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STATION COMMUNICATIONS DEMO PLAN

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VOLUME: 1 OF 1

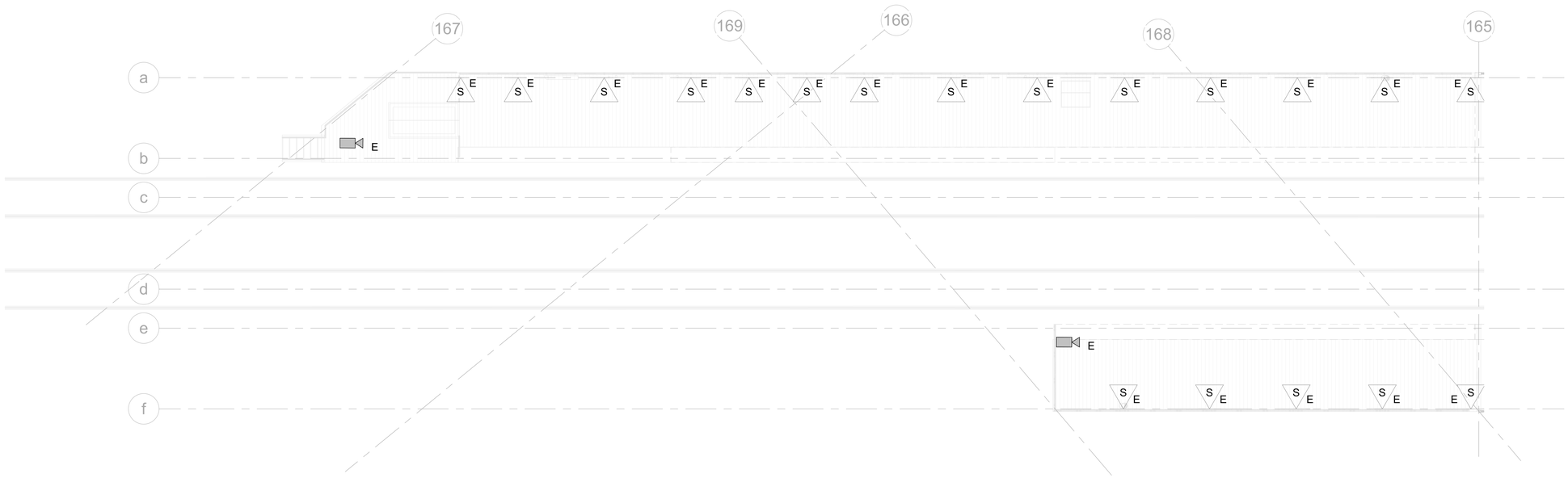
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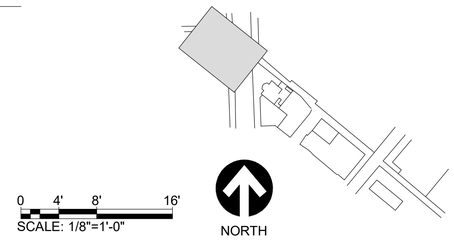
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2. EXISTING SPEAKERS, CAMERAS AND COMMUNICATION DEVICES SHALL REMAIN FUNCTIONAL.

KEY NOTES: (EX-#)

1. NOT USED.



1 TD-102 PLATFORM COMMUNICATIONS DEMO PLAN - NORTH
SCALE: 1/8" = 1'-0"



0 4' 8' 16'
SCALE: 1/8"=1'-0"

NORTH

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PLATFORM COMMUNICATIONS DEMO PLAN - NORTH

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VOLUME: 1 OF 1

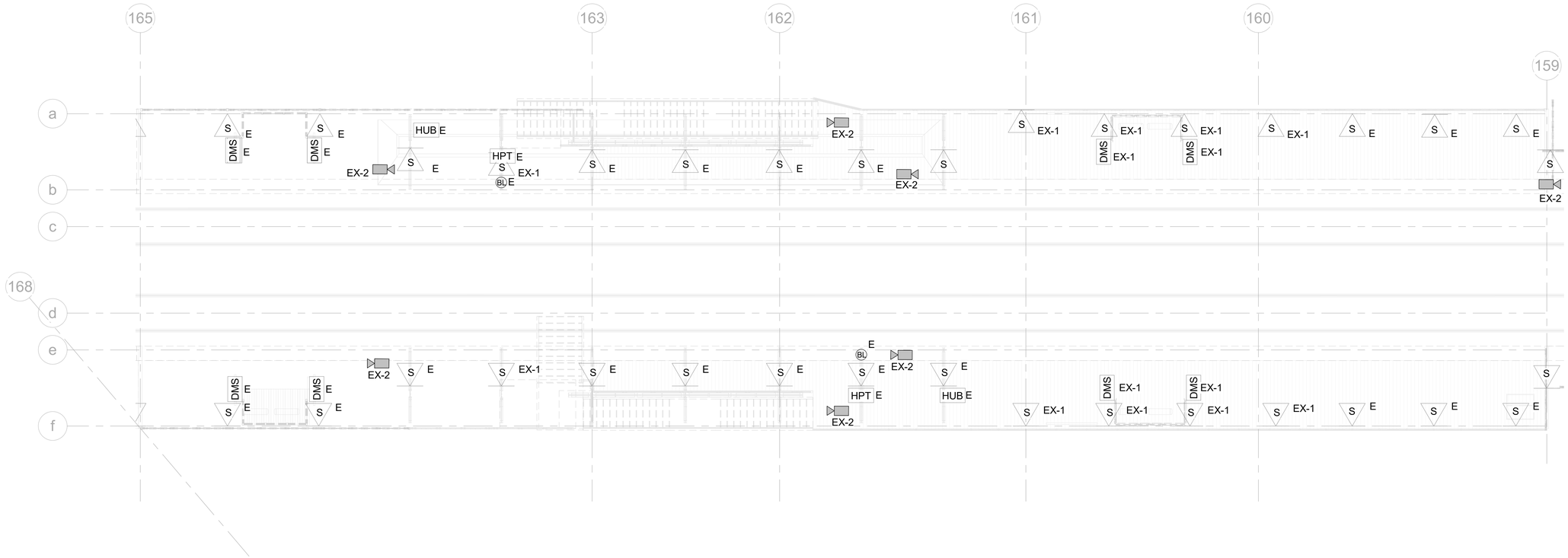
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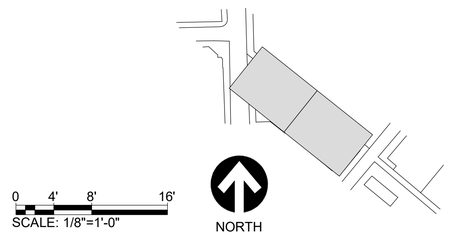
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2. EXISTING SPEAKERS, CAMERAS AND COMMUNICATION DEVICES SHALL REMAIN FUNCTIONAL.

KEY NOTES: (EX-#)

1. THE CONTRACTOR SHALL DISCONNECT AND RELOCATE EXISTING SPEAKERS AND DMS. REMOVE EXISTING CONDUIT TO NEAREST JUNCTION BOX AND PULL CABLE BACK TO NEAREST HUB. REFER TO SHEET T-103 FOR NEW LOCATION.
2. CTA SHALL DISCONNECT AND REMOVE EXISTING CAMERAS. THE CONTRACTOR SHALL REMOVE EXISTING CONDUIT TO NEAREST JUNCTION BOX AND PULL CABLE BACK TO NEAREST HUB. REFER TO SHEET T-103 FOR NEW LOCATION.



1 TD-103 PLATFORM COMMUNICATIONS DEMO PLAN - CENTER
SCALE: 1/8" = 1'-0"



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PLATFORM COMMUNICATIONS DEMO PLAN - CENTER

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VOLUME: 1 OF 1

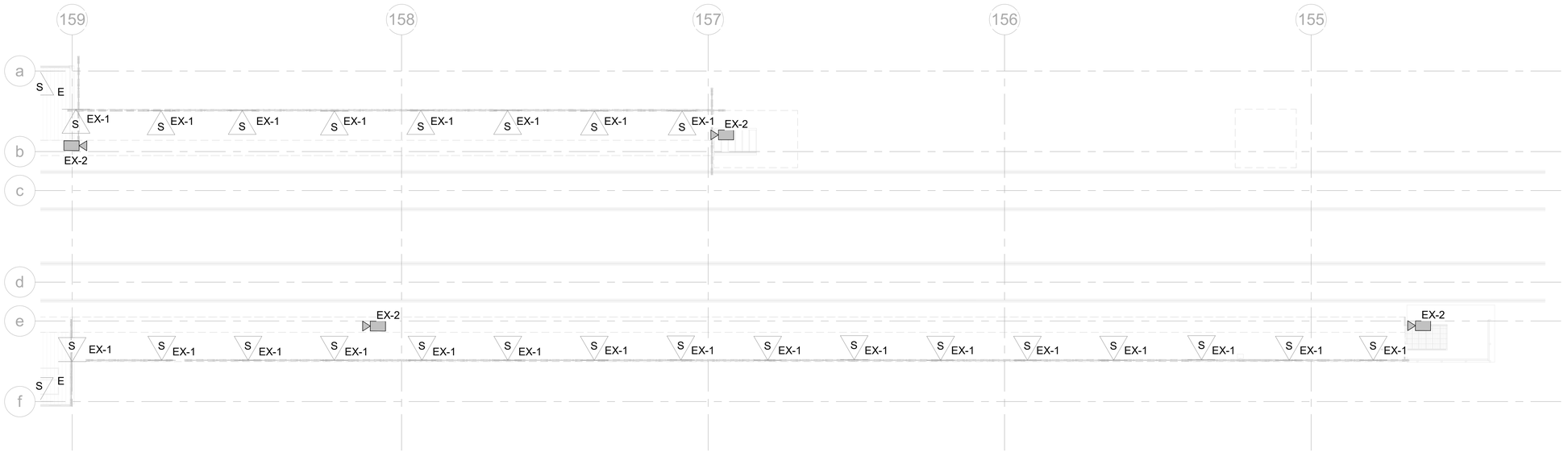
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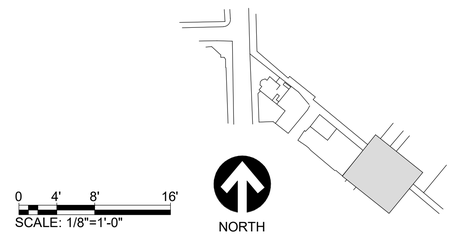
1. REFER TO SHEET T-001 FOR COMMUNICATIONS SYMBOLS, ABBREVIATIONS AND NOTES.
2. EXISTING SPEAKERS, CAMERAS AND COMMUNICATION DEVICES SHALL REMAIN FUNCTIONAL.

KEY NOTES: (EX-#)

1. THE CONTRACTOR SHALL DISCONNECT AND RELOCATE EXISTING SPEAKERS. REMOVE EXISTING CONDUIT TO NEAREST JUNCTION BOX AND PULL CABLE BACK TO NEAREST HUB. REFER TO SHEET T-104 FOR NEW LOCATION.
2. CTA SHALL DISCONNECT AND REMOVE EXISTING CAMERAS. THE CONTRACTOR SHALL REMOVE EXISTING CONDUIT TO NEAREST JUNCTION BOX AND PULL CABLE BACK TO NEAREST HUB. REFER TO SHEET T-104 FOR NEW LOCATION.



1 TD-104 PLATFORM COMMUNICATIONS DEMO PLAN - SOUTH
SCALE: 1/8" = 1'-0"



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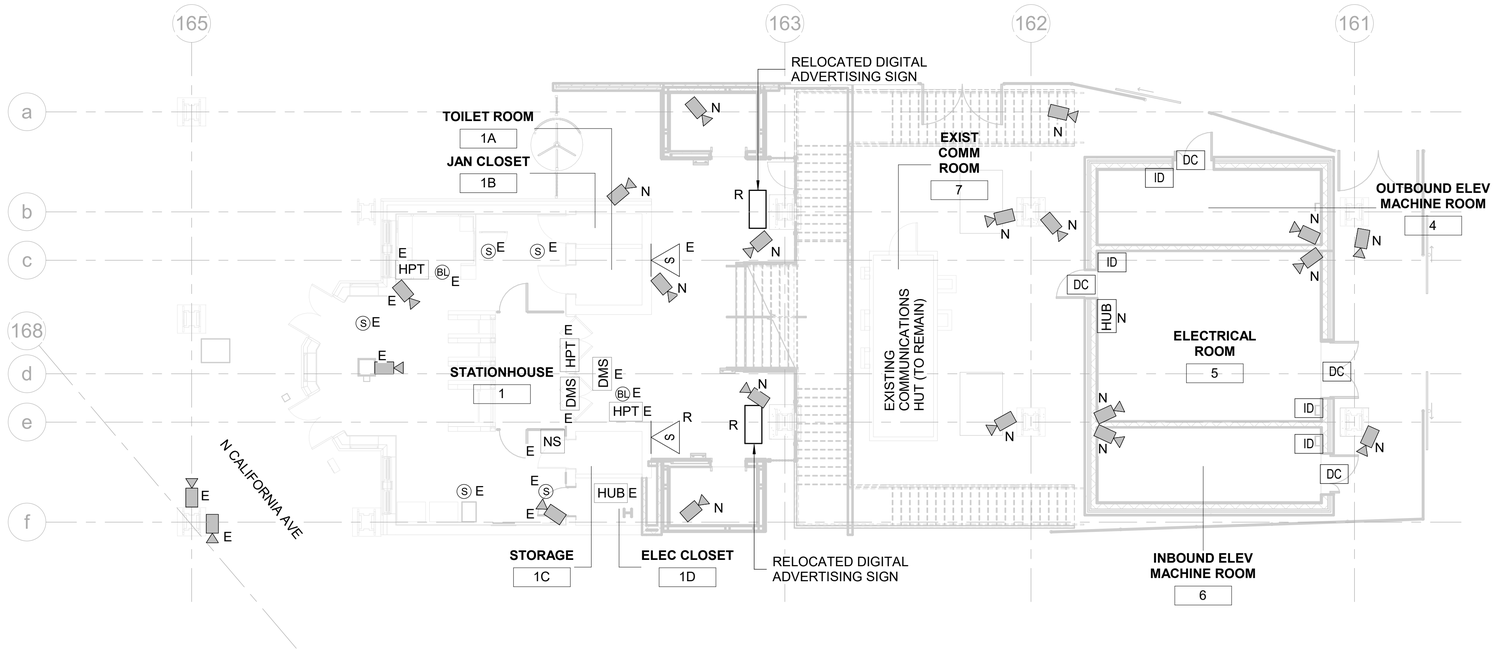
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PLATFORM COMMUNICATIONS DEMO PLAN - SOUTH

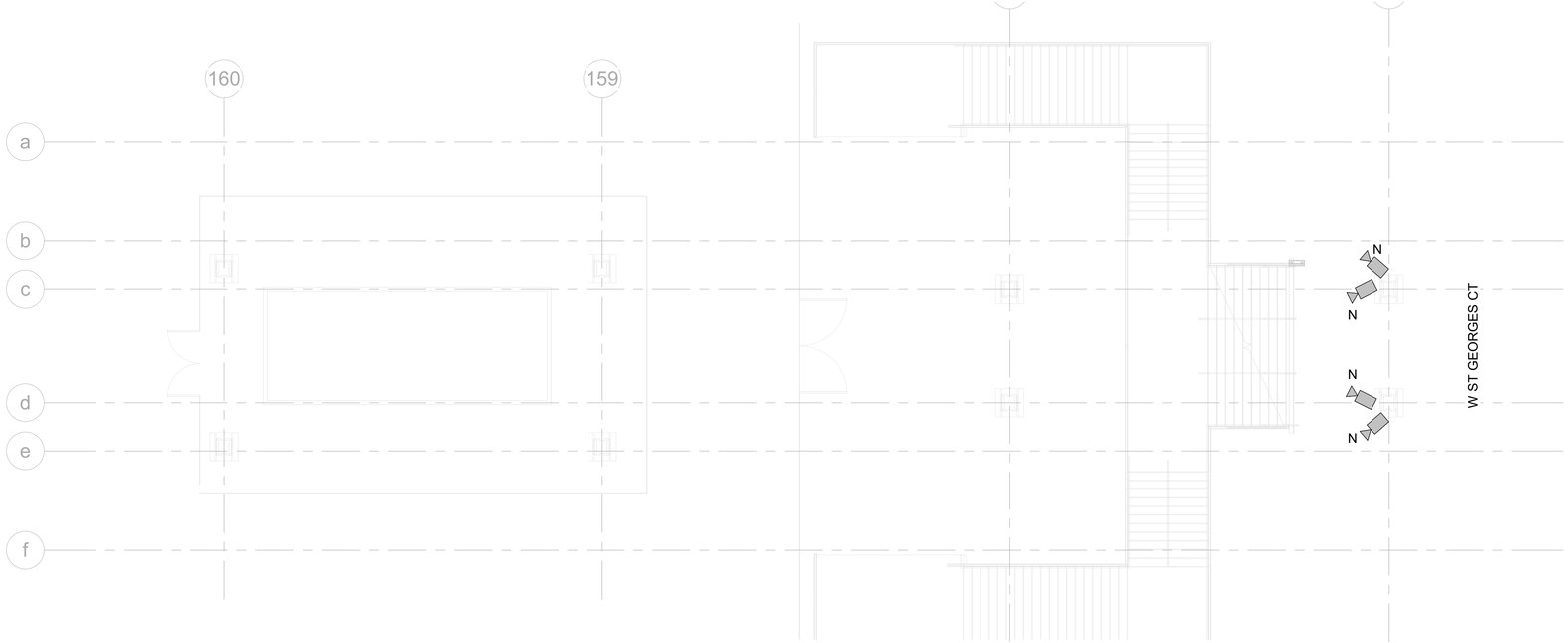
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1 T-101 STATION COMMUNICATIONS PLAN - NORTH
SCALE: 1/8" = 1'-0"



2 T-101 STATION COMMUNICATIONS PLAN - SOUTH
SCALE: 1/8" = 1'-0"

0 4' 8' 16'
SCALE: 1/8"=1'-0"

NORTH

GENERAL NOTES:

1. REFER TO SHEET T-001 FOR COMMUNICATIONS SYMBOLS, ABBREVIATIONS AND NOTES.
2. REFER TO SHEET T-601 FOR COMMUNICATIONS EQUIPMENT WIRING DIAGRAM.
3. NEW CAMERAS IN ELEVATORS SHALL BE FISHEYE TYPE.
4. THE CONTRACTOR SHALL PROVIDE AND INSTALL CONDUIT AND WIRING FOR THE NEW CAMERAS AND INSTALL THE CAMERAS PROVIDED BY CTA.
5. THE CONTRACTOR SHALL PROVIDE AND INSTALL NEW JUNCTION BOX AND ASSOCIATED SUPPORTS, CONDUIT AND CABLES FOR RELOCATED SPEAKER AND DIGITAL ADVERTISING SIGNS.

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STATION COMMUNICATIONS PLAN

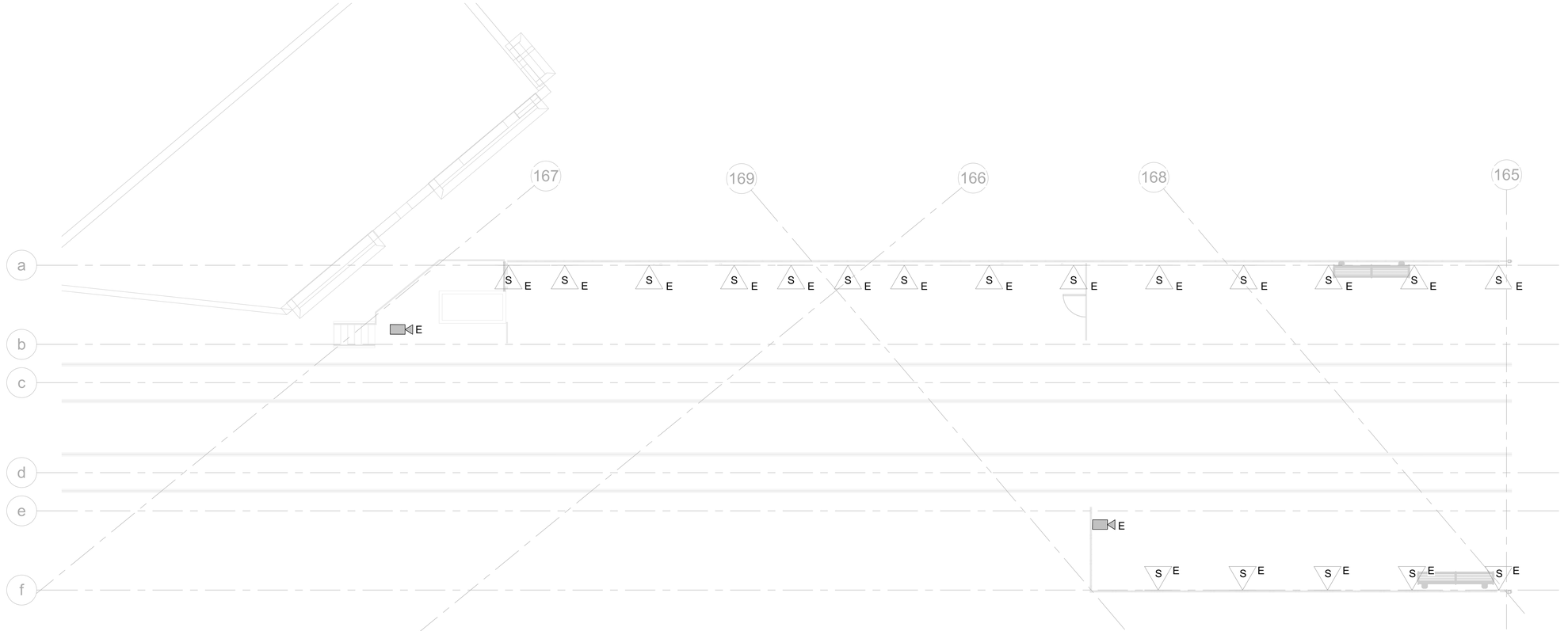
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VOLUME: 1 OF 1

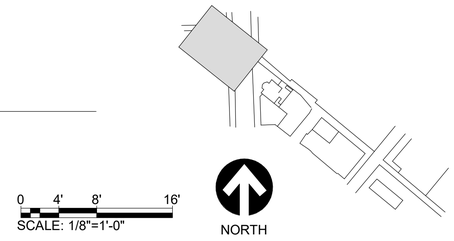
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GENERAL NOTES:

1. REFER TO SHEET T-001 FOR COMMUNICATIONS SYMBOLS, ABBREVIATIONS AND NOTES.
2. REFER TO SHEET T-601 FOR COMMUNICATIONS EQUIPMENT WIRING DIAGRAM.
3. EXISTING COMMUNICATION DEVICES SHALL REMAIN FUNCTIONAL.



1 T-102 PLATFORM COMMUNICATIONS PLAN - NORTH
SCALE: 1/8" = 1'-0"



HNTB
HNTB Corporation
One South Wacker Drive, Suite 900
Chicago, Illinois 60606
(312) 930-9119

AAA ENGINEERING
WBE/DBE CERTIFIED

CHICAGO TRANSIT AUTHORITY
ENGINEERING

SENSITIVE SECURITY INFORMATION

WARNING: THIS RECORD CONTAINS SENSITIVE SECURITY INFORMATION THAT IS CONTROLLED UNDER 49 CFR PARTS 15 AND 1520. NO PART OF THIS RECORD MAY BE DISCLOSED TO PERSONS WITHOUT A "NEED TO KNOW" AS DEFINED IN CFR PARTS 15 AND 1520, EXCEPT WITH THE WRITTEN PERMISSION OF THE ADMINISTRATOR OF THE TRANSPORTATION SECURITY ADMINISTRATION OR THE SECRETARY OF TRANSPORTATION. UNAUTHORIZED RELEASE MAY RESULT IN CIVIL PENALTY OR OTHER ACTION. FOR U.S. GOVERNMENT AGENCIES, PUBLIC DISCLOSURE IS GOVERNED BY 5 U.S.C. 552 AND 49 CFR PARTS 15 AND 1520.

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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

2211 NORTH CALIFORNIA AVE.
CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	AG
CHECKED BY	AF/AG/PD
DESIGNED BY	AG
DRAWN BY	AS/AG

MARK	DATE	DESCRIPTION
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PLATFORM COMMUNICATIONS PLAN - NORTH

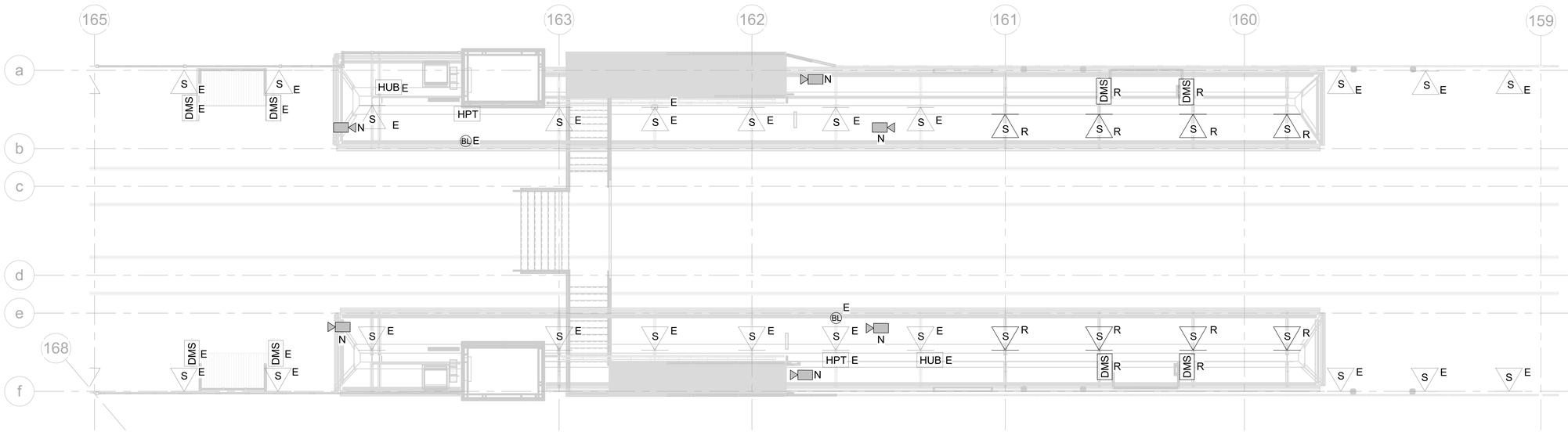
LSCAL | T-102

VOLUME: 1 OF 1

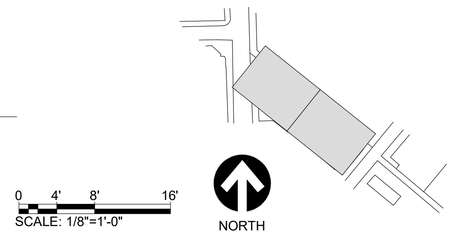
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2. REFER TO SHEET T-601 FOR COMMUNICATIONS EQUIPMENT WIRING DIAGRAM.
3. EXISTING COMMUNICATION DEVICES SHALL REMAIN FUNCTIONAL.
4. THE CONTRACTOR SHALL PROVIDE AND INSTALL CONDUIT AND WIRING FOR THE NEW CAMERAS AND INSTALL THE CAMERAS PROVIDED BY CTA.
5. THE CONTRACTOR SHALL PROVIDE AND INSTALL NEW JUNCTION BOX AND ASSOCIATED SUPPORTS, CONDUIT AND CABLES FOR RELOCATED SPEAKERS AND DMS.



1 T-103 PLATFORM COMMUNICATIONS PLAN - CENTER
SCALE: 1/8" = 1'-0"



0 4' 8' 16'
SCALE: 1/8"=1'-0"

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ALL STATIONS ACCESSIBILITY PROGRAM

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CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
APPROVED BY	AG
CHECKED BY	AF/AG/PD
DESIGNED BY	AG
DRAWN BY	AS/AG

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PLATFORM COMMUNICATIONS PLAN - CENTER

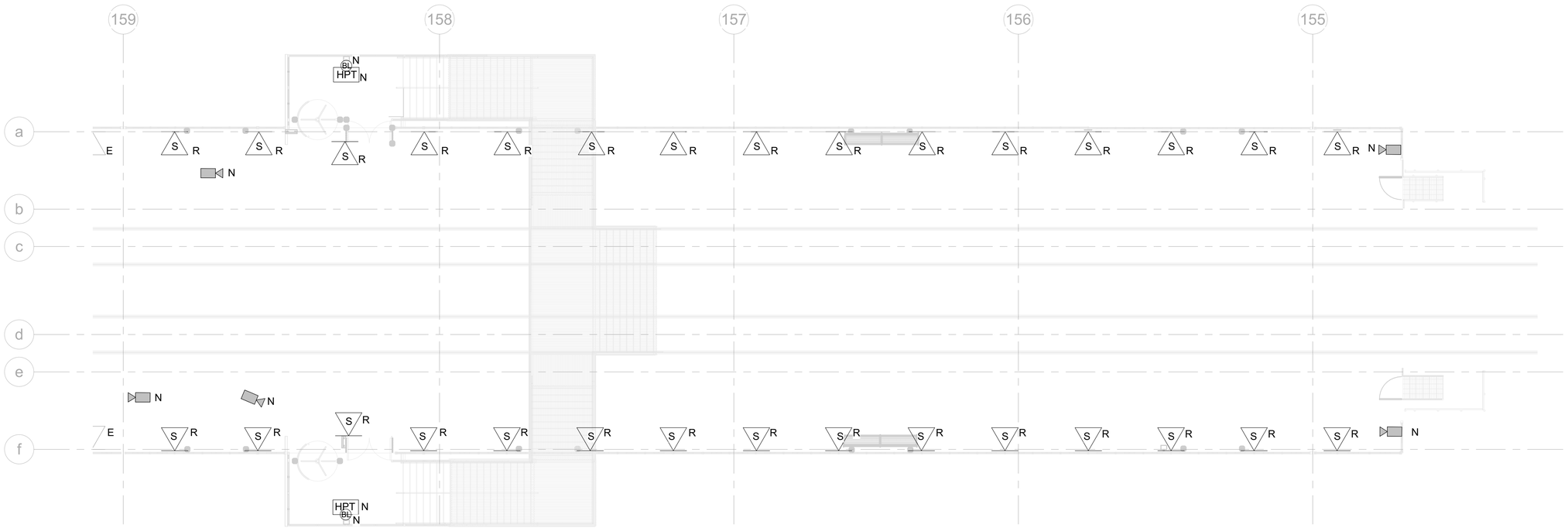
LSCAL T-103

VOLUME: 1 OF 1

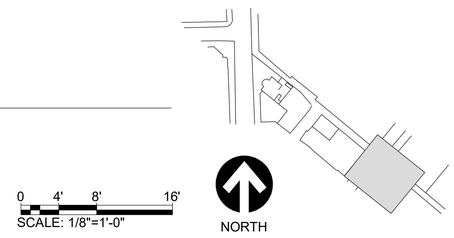
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GENERAL NOTES:

1. REFER TO SHEET T-001 FOR COMMUNICATIONS SYMBOLS, ABBREVIATIONS AND NOTES.
2. REFER TO SHEET T-601 FOR COMMUNICATIONS EQUIPMENT WIRING DIAGRAM.
3. THE CONTRACTOR SHALL PROVIDE AND INSTALL CONDUIT AND WIRING FOR THE NEW CAMERAS AND INSTALL THE CAMERAS PROVIDED BY CTA.
4. THE CONTRACTOR SHALL PROVIDE AND INSTALL NEW JUNCTION BOX AND ASSOCIATED SUPPORTS, CONDUIT AND CABLES FOR NEW AND RELOCATED SPEAKERS.



1 T-104 PLATFORM COMMUNICATIONS PLAN - SOUTH
SCALE: 1/8" = 1'-0"



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LOGAN SQUARE LINE - CALIFORNIA STATION

ALL STATIONS ACCESSIBILITY PROGRAM

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CHICAGO, ILLINOIS 60647

PROJECT NO	2015-0027.04
IN CHARGE	I. COLLETTI
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PLATFORM COMMUNICATIONS PLAN - SOUTH

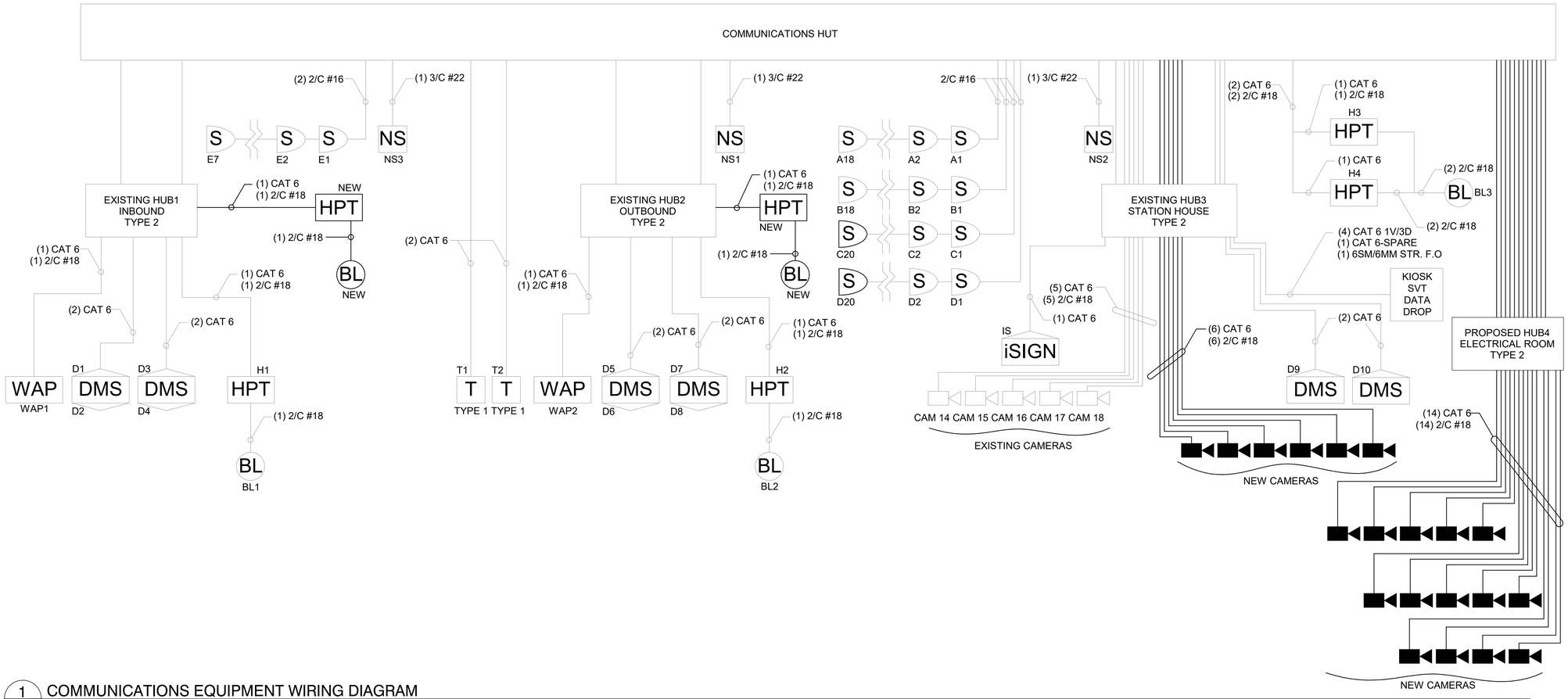
LSCAL T-104

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GENERAL NOTES:

1. REFER TO SHEET T-001 FOR COMMUNICATIONS SYMBOLS, ABBREVIATIONS AND NOTES.



1 T-601 COMMUNICATIONS EQUIPMENT WIRING DIAGRAM
SCALE:None

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ALL STATIONS ACCESSIBILITY PROGRAM

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DRAWN BY	AS/AG

MARK	DATE	DESCRIPTION
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COMMUNICATIONS EQUIPMENT WIRING DIAGRAM

LSCAL | T-601

VOLUME: 1 OF 1

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