

Note

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REFERENCE DESIGN ONLY.
SITE-SPECIFIC ENGINEERING
AND COMPLIANCE WITH
APPLICABLE LAWS AND
RULES REQUIRED.

NO.	DESCRIPTION	DATE
1	FOR CAPA REVIEW	06.25.2026



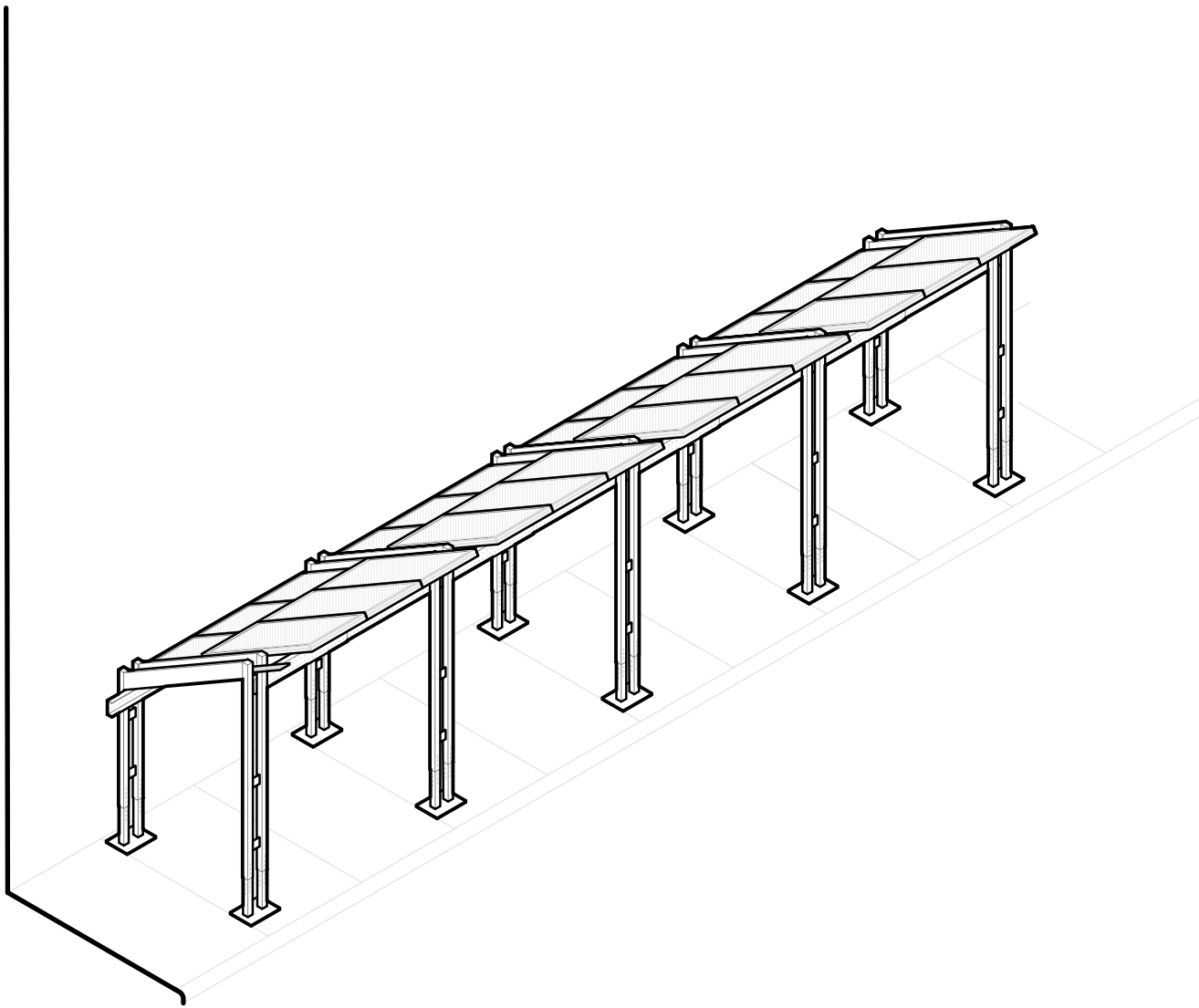
NOTE: VIEW SHOWS SPEED SHED IN ANGLED CONFIGURATION AND IS SHOWN FOR REPRESENTATION PURPOSES ONLY. CONDITIONS WILL VARY PER SITE.

SPEED SHED

NYC DOB PEDESTRIAN PROTECTION

DRAWING LIST	
SHEET NO.	NAME
PPD-S0	COVER SHEET & DRAWING LIST
PPD-S1	GENERAL NOTES & SPECIFICATIONS
PPD-S2	TYPICAL PLAN & SECTION
PPD-S3	TYPICAL DETAILS
PPD-S4	SPECIAL CONDITION - OBSTRUCTIONS & CORNER
PPD-S5	PARTS & PIECES

USE CASE: THE SPEED SHED SERVES EMERGENCIES, SHORT-TERM INSPECTIONS, AND OTHER TEMPORARY CONDITIONS REQUIRING RAPID DEPLOYMENT AND QUICK REMOVAL. LIGHT DUTY AND EASY TO MOVE, IT FEATURES AN ANGLED ROOF WITH NETTING THAT ADMITS NATURAL LIGHT. IT DOES NOT ACCOMMODATE BUILDING SCAFFOLDING.



Pedestrian Protection Designs

SPEED SHED

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New York City Department of Buildings

Drawing Title
COVER SHEET & DRAWING LIST

Drawing Number:

PPD-S0

GENERAL NOTES:

DESIGN REQUIREMENTS

1.

PER THE REQUIREMENTS OF THE NYC BUILDING CODE, ALL SIDEWALK SHEDS SHALL BE DESIGNED BY A REGISTERED DESIGN PROFESSIONAL. SIDEWALK SHED DESIGNS ARE SPECIFIC TO THE PARTICULAR SITE. THE CONTRACTOR INSTALLING THE SIDEWALK SHED IS RESPONSIBLE FOR ENGAGING A LICENSED DESIGN PROFESSIONAL. THE DESIGN PROFESSIONAL WILL BE REQUIRED TO PREPARE CONSTRUCTION DOCUMENTS SPECIFIC TO THE SITE AND FILE WHAT IS REQUIRED BY THE DEPARTMENT OF BUILDINGS TO OBTAIN A PERMIT FOR THE INSTALLATION OF THE SIDEWALK SHED. THE OWNER AND THE CONTRACTOR ACKNOWLEDGE THAT THE SAMPLE CONSTRUCTION DOCUMENTS PREPARED FOR NYC DOB ARE NOT SITE SPECIFIC AND CANNOT BE USED FOR OR RELIED UPON FOR INSTALLATION OF THE SIDEWALK SHED OR FOR PERMITTING PURPOSES. SEE SECTION 3307 OF THE NYC BUILDING CODE FOR MORE INFORMATION.
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GENERAL REQUIREMENTS

1.

ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF CURRENT VERSION OF THE NEW YORK CITY BUILDING CODE, INCLUDING ALL REFERENCED CODES AND STANDARDS. WHERE CURRENT CODE PROVISIONS AND DESIGN CRITERIA ARE MORE STRINGENT THAN THOSE CONSIDERED IN THESE DRAWINGS, THE REGISTERED DESIGN PROFESSIONAL SHALL MAKE SUITABLE ADJUSTMENTS.
2.

FIELD MEASUREMENTS: OBTAIN ALL FIELD MEASUREMENTS REQUIRED FOR PROPER FABRICATION AND INSTALLATION OF THE WORK. FIELD MODIFICATIONS OF THE WORK SHALL BE REVIEWED AND APPROVED BY THE REGISTERED DESIGN PROFESSIONAL.
3.

THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE OSHA REGULATIONS AND SAFETY PROCEDURES TO ENSURE THE HEALTH AND SAFETY OF PERSONNEL AND PEDESTRIANS. THE CONTRACTOR MUST MAINTAIN A SAFE AND CLEAN WORKING ENVIRONMENT AND SHALL ENSURE PROPER PERSONAL PROTECTIVE EQUIPMENT IS WORN AT ALL TIMES. IN AREAS WHERE PEDESTRIAN AND/OR VEHICULAR TRAFFIC IS AFFECTED BY THE WORK, THE CONTRACTOR SHALL CORDON OFF THE WORK AREA IN ACCORDANCE WITH DOT REQUIREMENTS.
4.

CONTRACTOR SHALL ENSURE THAT STRUCTURAL MEMBERS USED FOR A SIDEWALK SHED INSTALLATION ARE IN GOOD CONDITION AND SUITABLE FOR THE WORK. EXISTING STOCK THAT IS REUSED FOR A NEW INSTALLATION SHALL BE CHECKED FOR UNACCEPTABLE CORROSION, DEFORMATION, DAMAGE, OR OTHER DETERIORATION PRIOR TO INSTALLATION.

ERECTION AND QUALITY ASSURANCE

1.

ERECT STEEL STRUCTURE SO THAT BEAMS AND GIRDERS ARE ALIGNED AND LEVEL WITH THE PLANE OF THE DECKING AND SO THAT COLUMNS ARE VERTICAL AND PLUMB.
2.

ADJUSTABILITY CAN BE ACHIEVED THROUGH THE USE OF ARRAYED BOLT HOLES IN ALL STRUCTURAL PIECES AND BY SHIMMING UNDER POST BASE PLATES.
3.

POST BASE PLATES SHALL BE LEVEL, SHIMMED AS REQUIRED PER THE REQUIREMENTS OF THIS DOCUMENT, AND BEAR ON MINIMUM 4" THICK, SOUND CONCRETE SIDEWALK, ASPHALT, OR SIMILAR PAVING.

THE SURFACE UPON WHICH THE SHED ULTIMATELY BEARS, SUCH AS THE STREET, SIDEWALK VAULT, OR GROUND, SHALL BE CAPABLE OF SUPPORTING THE DESIGN LOADS OF THE SIDEWALK SHED, INCLUDING ANY ITEM PLACED OR STORED UPON THE SHED, WITHOUT DAMAGE, SETTLEMENT, OR DEFORMATION TO SUCH SURFACE.
4.

PROVIDE TEMPORARY BRACING AND SHORING AS NEEDED FOR TEMPORARY STABILITY DURING ERECTION.
5.

PERFORM SPECIAL INSPECTIONS, BOTH SHOP AND FIELD, AS REQUIRED BY THE NEW YORK CITY BUILDING CODE.
6.

PERFORM REGULAR INSPECTION OF THE INSTALLED SHED PER THE REQUIREMENTS OF NYCBC 3307.6.5.
7.

WHEN SIDEWALK SHED IS REMOVED, REMOVE POST-INSTALLED ANCHORS AND REPAIR SIDEWALK PER THE REQUIREMENTS OF THE NEW YORK CITY DEPARTMENT OF TRANSPORTATION.

LAYOUT AND ASSEMBLY NOTES:

1.

REGISTERED DESIGN PROFESSIONAL SHOULD MAXIMIZE POST SPACING, AS ALLOWED BY THE DESIGN MATRICES ON THIS SHEET. POST SPACING MAY BE LOWER THAN MAXIMUM ALLOWABLE SPACING IF NEEDED TO AVOID THE CURB OR OBSTRUCTIONS SUCH AS CURB CUTS OR RAMPS, VEHICULAR ACCESS POINTS, STREETLIGHTS, TRAFFIC LIGHTS OR SIGNS, FIRE HYDRANTS, FIRE DEPARTMENT CONNECTIONS, WATER SAMPLING STATIONS, BUS SHELTERS, STREET FURNITURE, TREES, ADJACENT SHOW WINDOWS, MEANS OF INGRESS/EGRESS, SUBWAY ENTRANCES, OR ACCESS POINTS TO VAULTS, MANHOLES, OR OTHER UNDERGROUND STRUCTURES. SIDEWALK SHED PLANS SHALL INCLUDE LOCATIONS OF SUCH OBSTRUCTIONS AND INDICATE MEASUREMENT OF SHORTER SPANS.

SPECIFICATIONS:

STRUCTURAL ALUMINUM

1.

UNLESS OTHERWISE NOTED, USE THE FOLLOWING:

CHANNELS

HSS SECTIONS

PLATES

ALLOY 6061 TEMPER T6, Fty = 35 KSI

ALLOY 6061 TEMPER T6, Fty = 35 KSI

ALLOY 6061 TEMPER T6, Fty = 35 KSI
2.

ALL STRUCTURAL ALUMINUM MEMBERS AND CONNECTION PLATES SHALL BE ANODIZED.

NETTING

1.

NET

INDICATES ROCK FALL NETTING.
2.

NET ATTACHMENTS: TO BE DEVELOPED.

POST-INSTALLED ANCHORS

1.

POST-INSTALLED ANCHORS SHALL BE STAINLESS STEEL WEDGE-TYPE EXPANSION ANCHORS DESIGNED IN ACCORDANCE WITH ACI 318.
2.

POST-INSTALLED ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS. ANCHOR INSTALLER SHALL HAVE EXPERIENCE AND TRAINING WITH INSTALLING THE SPECIFIED POST-INSTALLED ANCHORS.
3.

WHEN SIDEWALK SHED IS REMOVED, REMOVE POST-INSTALLED ANCHORS AND REPAIR SIDEWALK PER THE REQUIREMENTS OF THE NEW YORK CITY DEPARTMENT OF TRANSPORTATION.
4.

ALL POST-INSTALLED ANCHORS SHALL BE GRADE 316 STAINLESS STEEL.

1.1 PERFORMANCE / DESIGN CRITERIA

- A.

GENERAL PERFORMANCE: ALL MATERIALS SHALL WITHSTAND EXPOSURE TO WEATHER AND RESIST THERMALLY INDUCED MOVEMENT WITHOUT FAILURE, RATTLING, LEAKING, OR FASTENER DISENGAGEMENT DUE TO DEFECTIVE MANUFACTURE, FABRICATION, INSTALLATION, OR OTHER DEFECTS IN CONSTRUCTION.

1.2 STRUCTURAL ALUMINUM FRAME

- A.

MATERIALS:

1.

ALUMINUM PLATE AND SHEET: ASTM B 209 (ASTM B 209M), ALLOY 5052 IF APPROVED BY PROJECT ENGINEER.

2.

ALUMINUM EXTRUSIONS: ASTM B 221 (ASTM B 221M), ALLOY 5052 IF APPROVED BY PROJECT ENGINEER.
- B.

FASTENERS:

1.

STAINLESS-STEEL BOLTS AND NUTS: REGULAR HEXAGON-HEAD ANNEALED STAINLESS-STEEL BOLTS, ASTM F 593; WITH HEX NUTS, ASTM F 594; AND, WHERE INDICATED, FLAT WASHERS; ALLOY GROUP 1.

2.

MACHINE SCREWS: ASME B18.6.3.
- C.

SHOP ASSEMBLY: PREASSEMBLE ITEMS IN THE SHOP TO GREATEST EXTENT POSSIBLE. DISASSEMBLE UNITS ONLY AS NECESSARY FOR SHIPPING AND HANDLING LIMITATIONS. USE CONNECTIONS THAT MAINTAIN STRUCTURAL VALUE OF JOINED PIECES. CLEARLY MARK UNITS FOR REASSEMBLY AND COORDINATED INSTALLATION.
- D.

FINISH: ELECTROLYTICALLY DEPOSITED COLOR-ANODIZED DESIGNATION AA-M10-C22-A34, ARCHITECTURAL CLASS II, 0.4 MIL TO 0.7 MIL THICK.

1.

COLOR: MATCH RAL 3003 RUBY RED

B. STANDARDS/REFERENCES:

1.

ALUMINUM PLATE AND SHEET: ASTM B209 (ASTM B209M), ALLOY 6061-T6.
2.

ALUMINUM EXTRUSIONS: ASTM B221 (ASTM B221M), ALLOY 6063-T6.
3.

NAAM MBG 531-00 - METAL BAR GRATING MANUAL: FOR STEEL, STAINLESS STEEL, AND ALUMINUM GRATINGS AND STAIR TREADS
4.

WELDING: QUALIFY PROCEDURES AND PERSONNEL ACCORDING AWS D1.2.

1.4 ROCKFALL NETTING

- A.

DESCRIPTION: 11 GAUGE, 3/8 IN. MINI-MESH OR RECTANGULAR NETTING.

1.

MESH SIZE: 3/8 IN. (9.525 MM)

2.

WIRE DIAMETER: 0.120 IN. (3.05 MM)

3.

WIRE TENSILE STRENGTH: 75-85 KSI (517 - 586 N/MM2)

4.

COATING: 1.2 OZ / FT2 (366 G/M2) GALVANIZING

1.5 T-SLOTTED ALUMINUM FRAMING SYSTEM

- A.

T-SLOTTED ALUMINUM FRAMING SYSTEMS TO BE SUSPENDED ASSEMBLY WITH ALL FITTINGS, CONNECTORS, HANGERS, FASTENERS, COMPONENTS AND ACCESSORIES TO PROVIDE COMPLETE, STABLE, STRUCTURAL ASSEMBLIES. ALL WORK TO BE ENGINEERED BY CONTRACTOR INCLUDING CONNECTIONS TO BUILDING STRUCTURE AND SUBMITTED WITH STAMPED ENGINEERING DRAWINGS AND CALCULATIONS. SEE DRAWINGS FOR LAYOUTS.

1.

ALUMINUM T-SLOT FRAMING SYSTEM: FURNISH MANUFACTURER'S SYSTEM SPECIFIC COMPONENTS AND ACCESSORIES REQUIRED TO PROVIDE AN ENGINEERED AND FULLY FUNCTIONING ASSEMBLIES AS INDICATED ON THE DRAWINGS. INCLUDING ALL NECESSARY HARDWARE.

1.6 CASTERS

- A.

DESCRIPTION: PRESSED STEEL CASTERS, HEAVY DUTY, WITH TOP PLATE FITTING, WHEEL WITH ELASTIC SOLID RUBBER TIRE.

1.

WHEEL DIAMETER: 4 IN. NOMINAL
2.

TIRE WIDTH: 1.5 IN NOMINAL
3.

LOAD CAPACITY: 440 LBS.
4.

BEARING TYPE: BALL BEARING
5.

TOTAL HEIGHT: AS INDICATED
6.

TREAD & TIRE HARDNESS: 65 SHORE A

1.9 LIGHTING

- A.

SURFACE MOUNT LED LUMINAIRES

1.

STAINLESS STEEL CONSTRUCTION
2.

PREMIUM DRIVER
3.

3G VIBRATION TEST RATING
4.

MINIMUM 5-YEAR LIMITED WARRANTY
5.

MADE IN AMERICA
6.

HOUSING: 20GA (0.036 INCH) MINIMUM STAINLESS STEEL, DOUBLE CHANNEL, ONE WELDED INSIDE THE OTHER, WITH SPACE BETWEEN THE CHANNEL SIDES TO CAPTURE THE DIFFUSER. THREADED HUBS ARE CONTINUOUSLY WELDED INTO THE CHANNEL ENDS TO CREATE A SEALED WIREWAY ACCESS. REMOVABLE PLUGS SEAL THE HUBS WHEN NOT UTILIZED.
7.

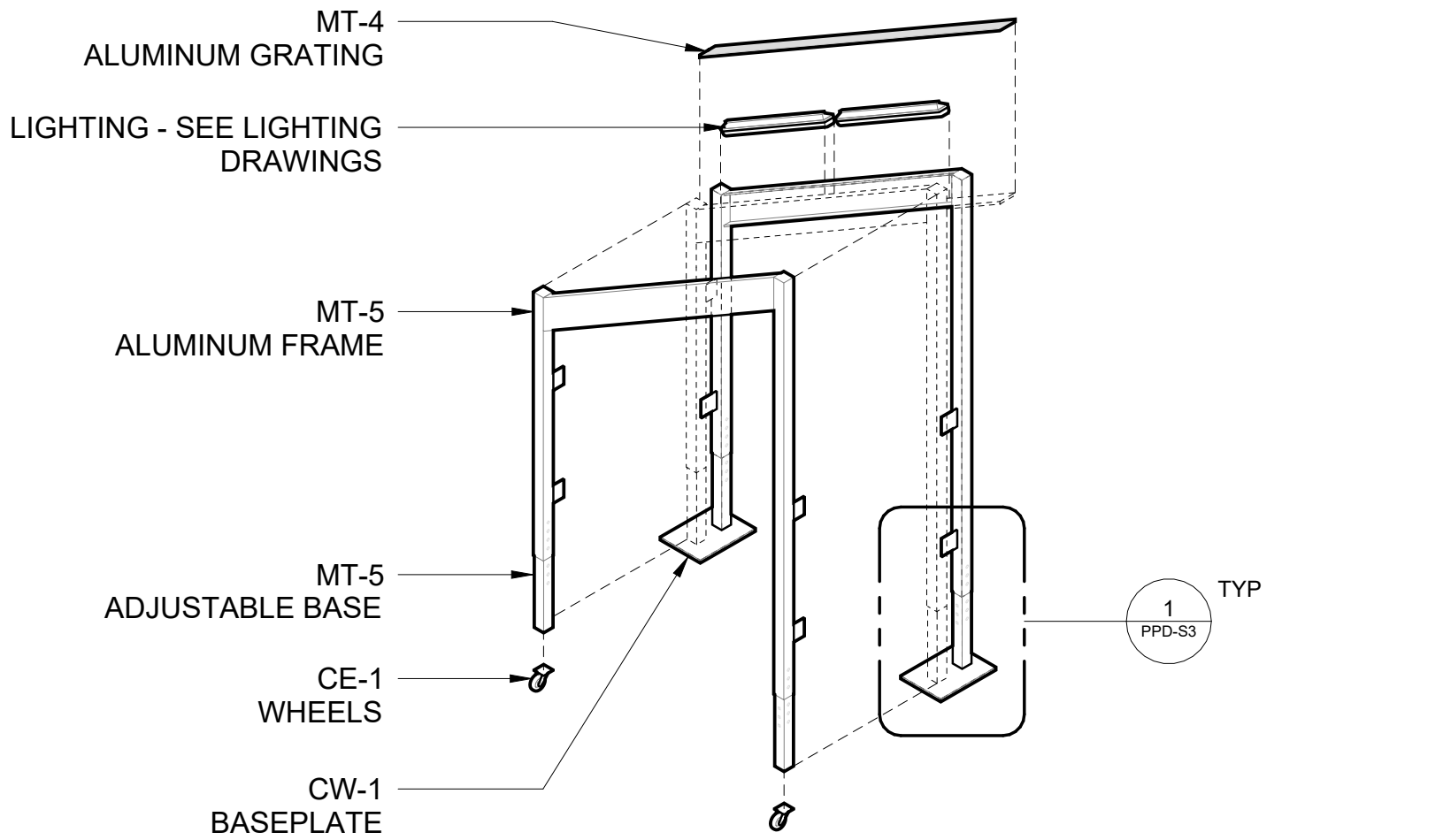
LENS: 0.156 IN. PRISMATIC POLYCARBONATE.
8.

END CAPS: DIE FORMED OF 18GA (0.048 INCH) STAINLESS STEEL. A THREADED, KNURLED RING SECURES THE END CAP TO THE LUMINAIRE HOUSING. END CAPS SECURE LENS.
9.

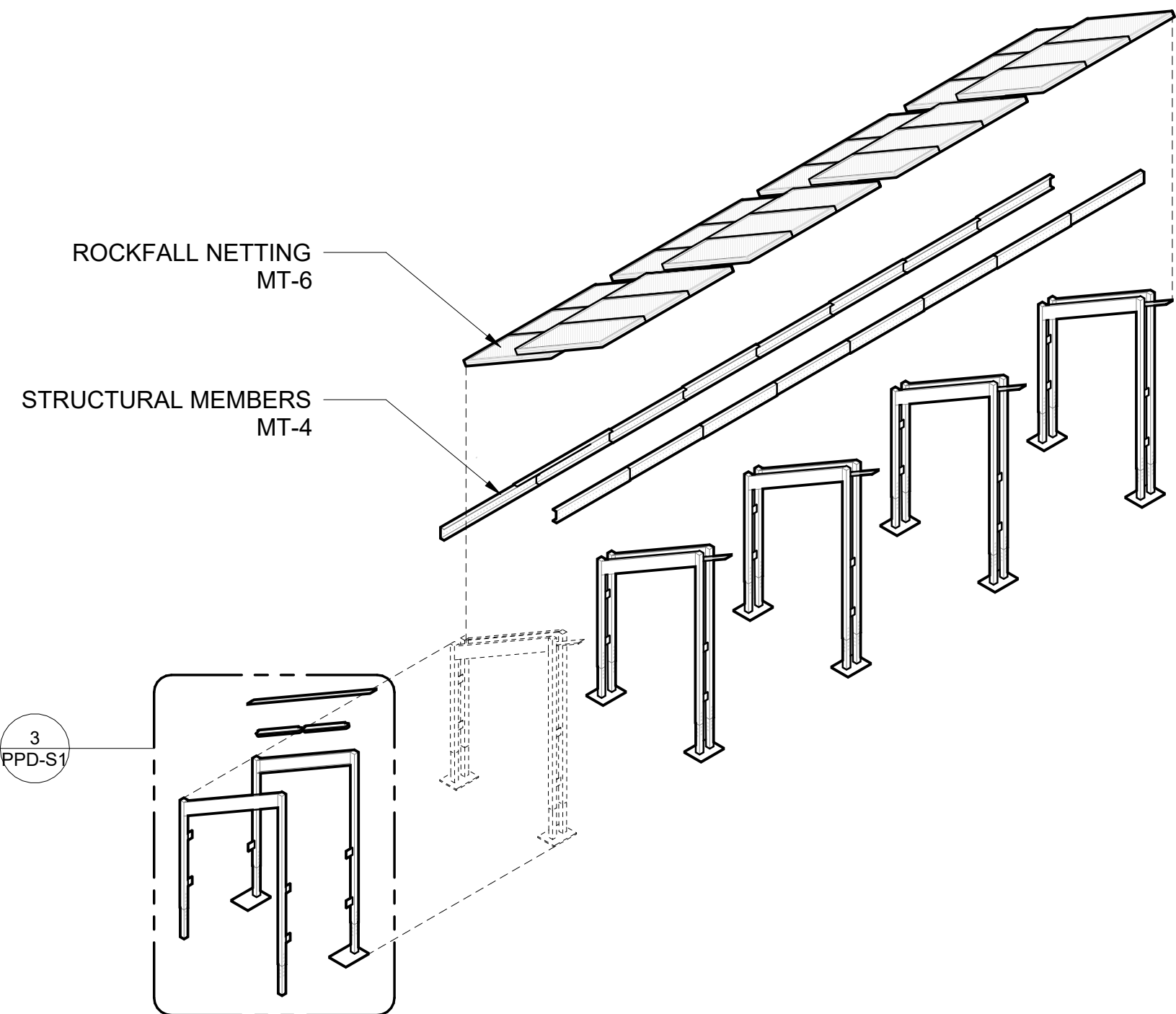
GASKETING: EPDM IN THE HOUSING CHANNELS AND NEOPRENE END CAPS.
10.

ELECTRICAL: HIGH EFFICIENCY LED/DRIVER COMBINATION, 160 LUMENS/WATT RAW ARRAY EFFICACY WITH 80+ CRI, 4000K COLOR TEMPERATURE.
11.

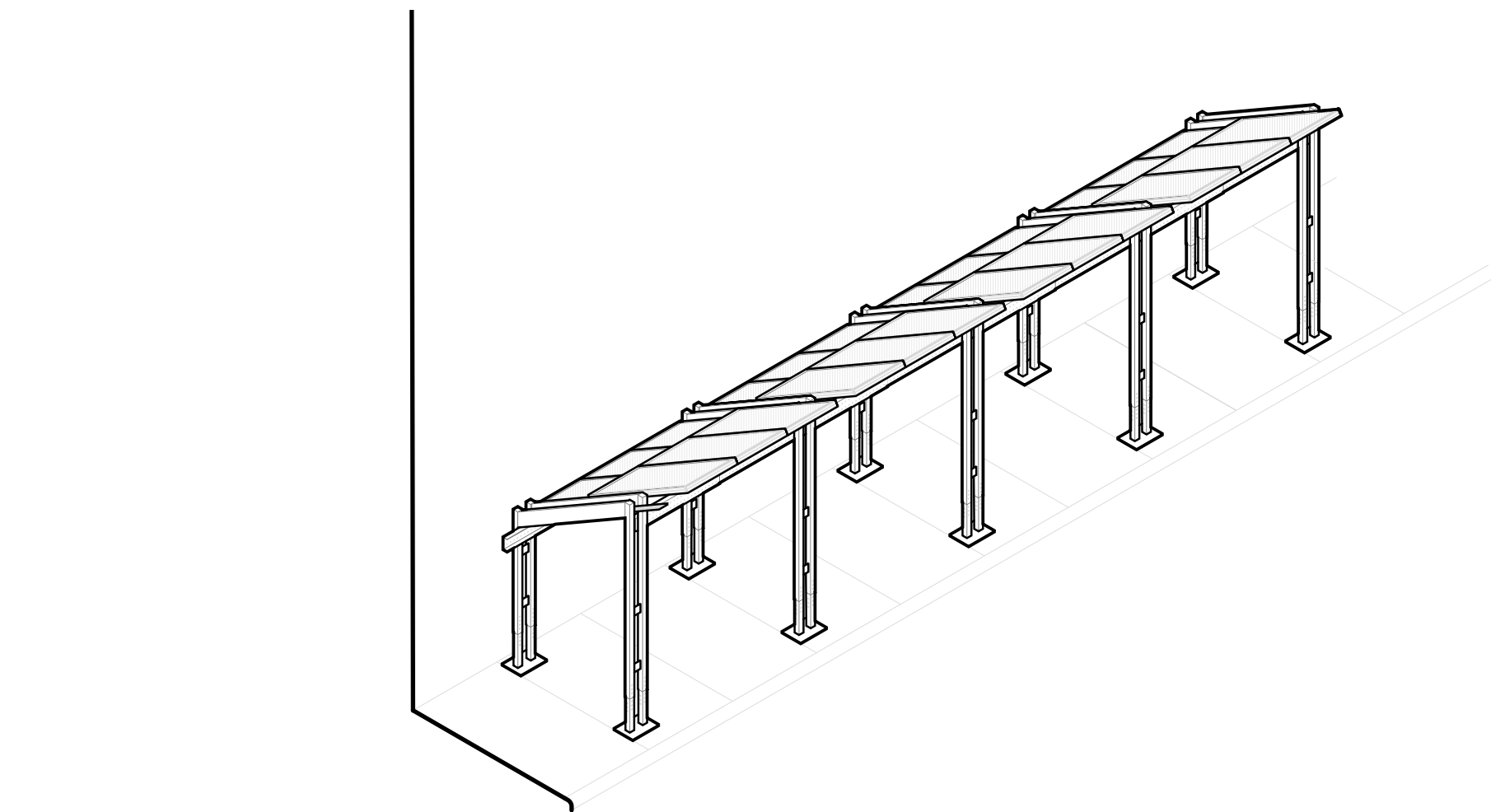
MOUNTING: SURFACE OR CONTINUOUS ROW FOR COVERED CEILING INSTALLATIONS ONLY.



3 EXPLODED FRAME AXON
N.T.S.



2 EXPLODED AXON
N.T.S.



1 AXON
N.T.S. FOR ILLUSTRATIVE PURPOSES ONLY

MATERIAL SCHEDULE			
TAG	MATERIAL	LOCATION	FINISH
DIVISION 05 - METALS			
MT-4	ALUMINUM	STRUCTURAL MEMBERS	ARCHITECTURALLY EXPOSED ALUMINUM
MT-5	RED ANODIZED ALUMINUM	ALUMINUM FRAMES	TO MATCH RAL 440-6
MG-3	POST INSTALLED ANCHORS	BASEPLATES	STAINLESS STEEL WEDGE-TYPE EXPANSION ANCHORS DESIGNED IN ACCORDANCE WITH ACI 318.
MT-6	ROCKFALL NETTING	DECKING	11 GAUGE, 3/8" MINI-MESH OR 9.5/9.5/3 RECTANGULAR NETTING. MESH SIZE: 3/8" (9.525 MM) WIRE DIAMETER: 0.120" (3.05 MM) WIRE TENSILE STRENGTH: 75-85 KSI (517 - 586 N/MM2) COATING: 1.2 OZ / FT2 (366 G/M2) GALVANIZING
DIVISION 06 - WOOD & PLASTICS			
CW-1	BASE PLATES	POST BASE PLATES	1 1/2" MAX HEIGHT NON-ORGANIC SHIMS COMPATIBLE WITH ANCHORAGE REQUIREMENTS
DIVISION 07 - THERMAL & MOISTURE PROTECTION			
PL-03	BOLT PROTECTION CAPS	CONNECTIONS	BOLT PROTECTION CAPS - LDPE BOLT PROTECTION CAPS, UV-STABILIZED, BLACK
DIVISION 14 - CONVEYING EQUIPMENT			
CE-1	WHEELS	BASES	REMOVABLE LOCKING SWIVEL CASTER 4" TO ACCOMMODATE LOADING CRITERIA

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Pedestrian Protection Designs

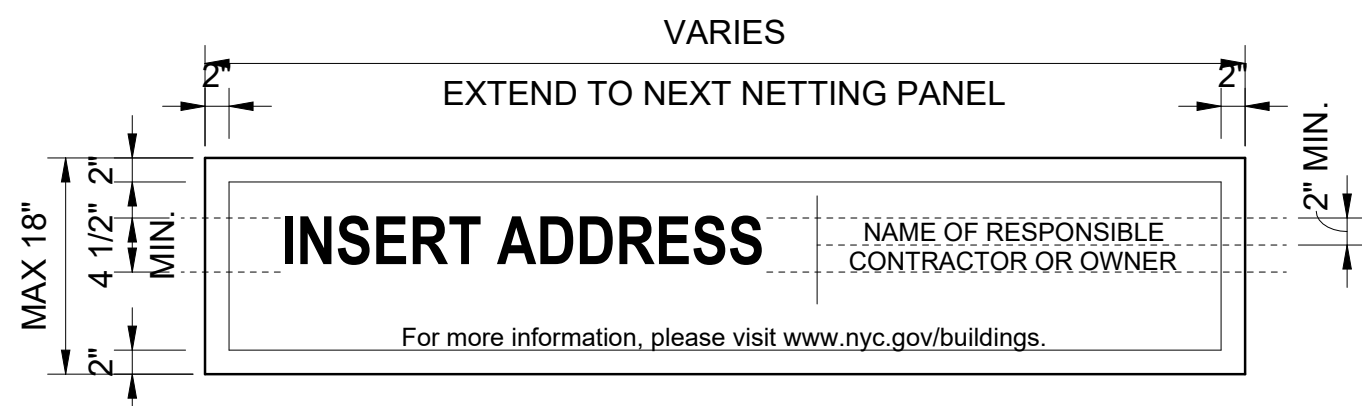
SPEED SHED

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Drawing Title
TYPICAL DETAILS

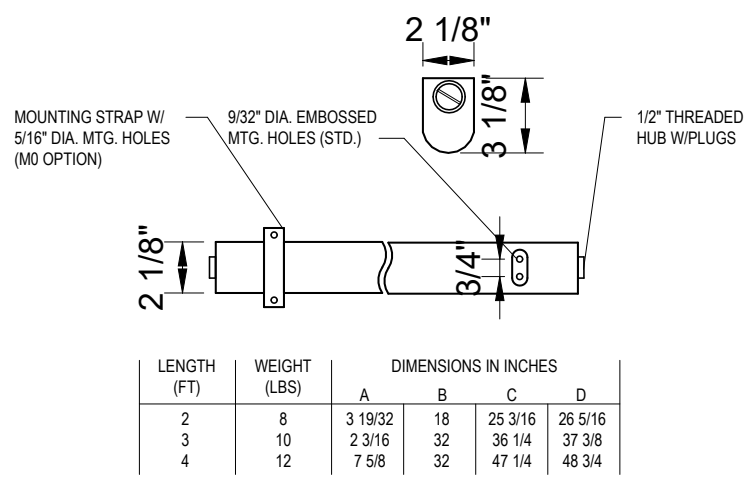
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PPD-S3



9 SIGNAGE

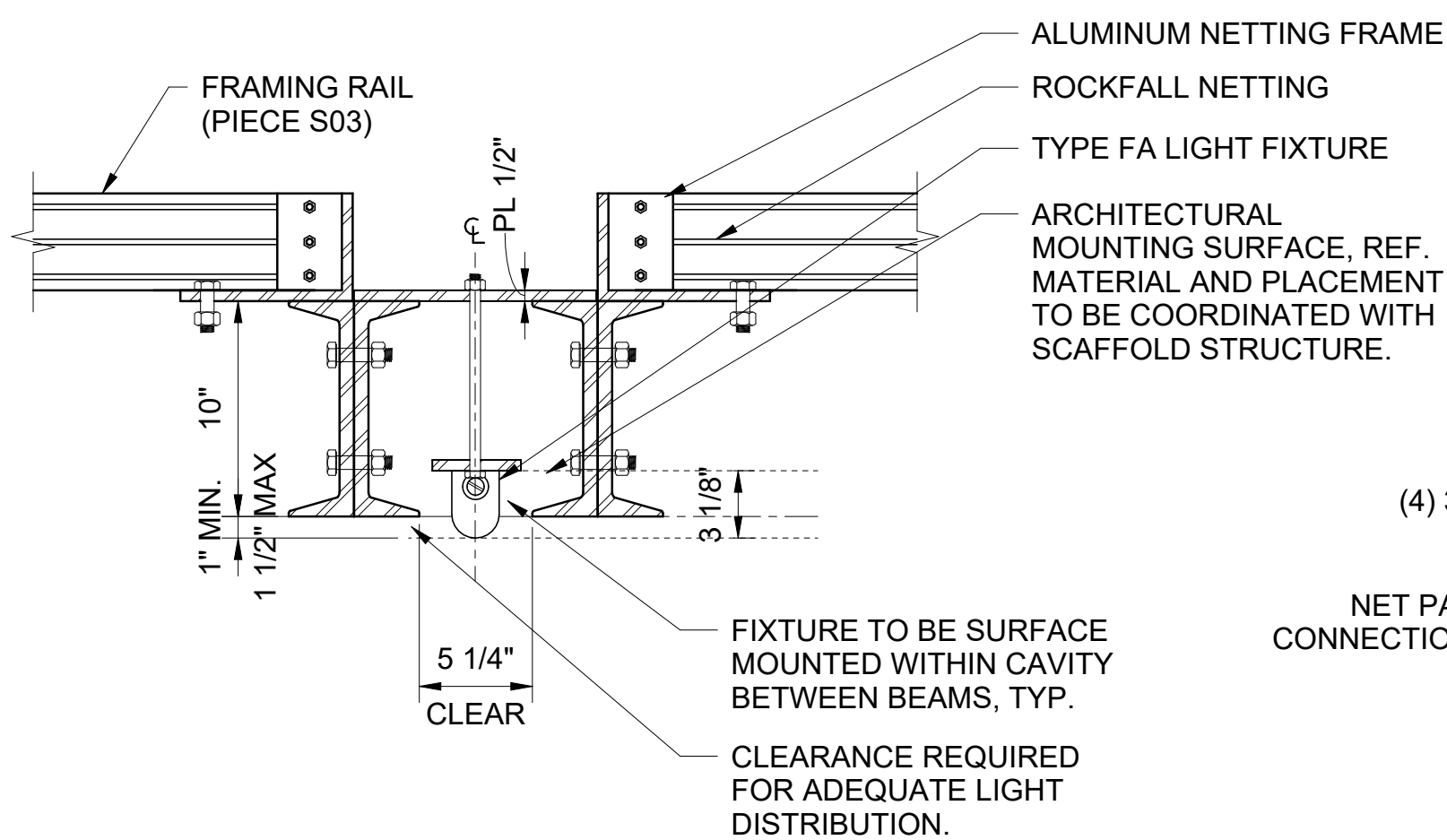
3/4" = 1'-0"



MOUNTING POINT LOCATIONS FOR REFERENCE

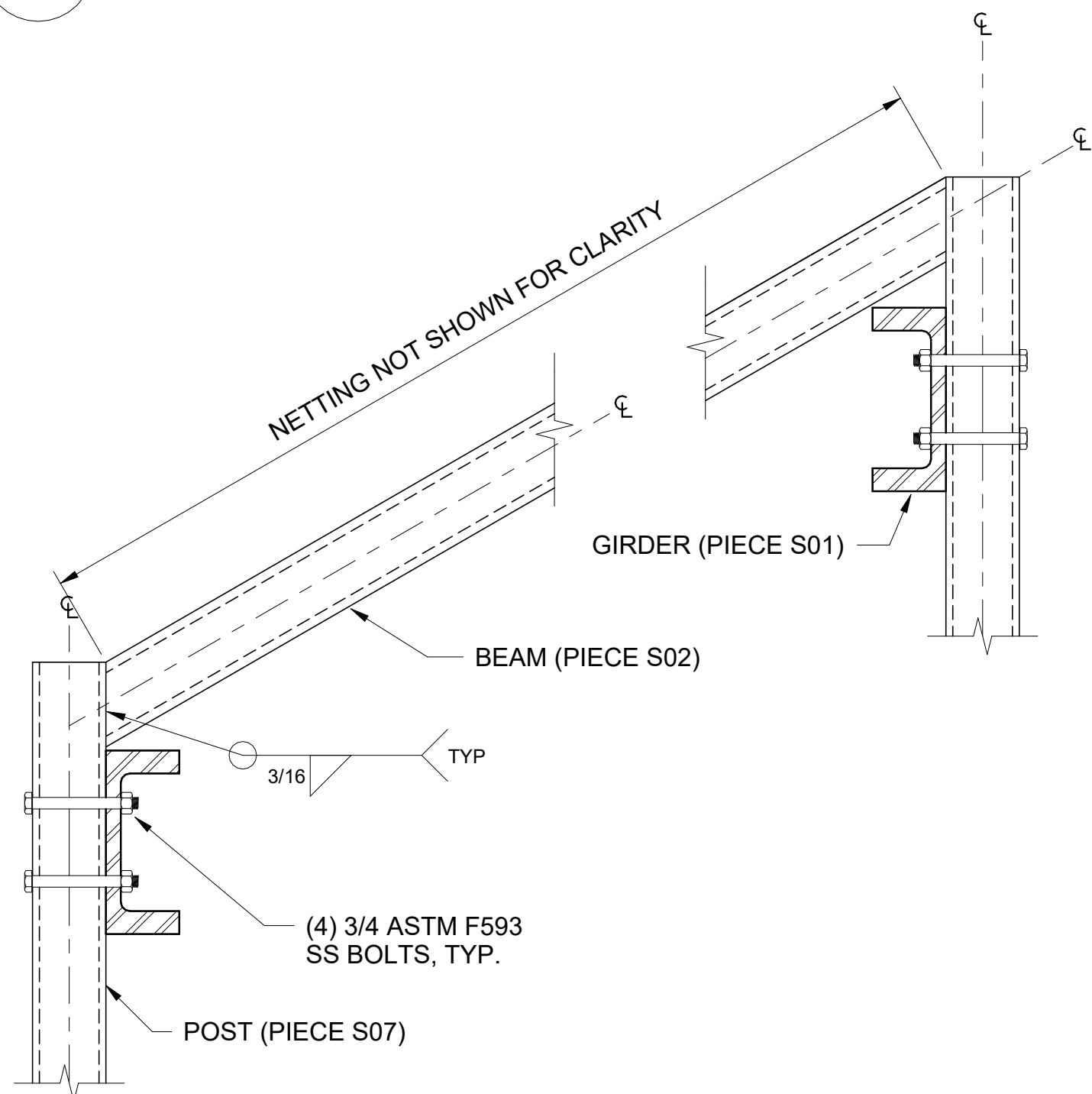
6 LIGHTING MOUNTING

1 1/2" = 1'-0"



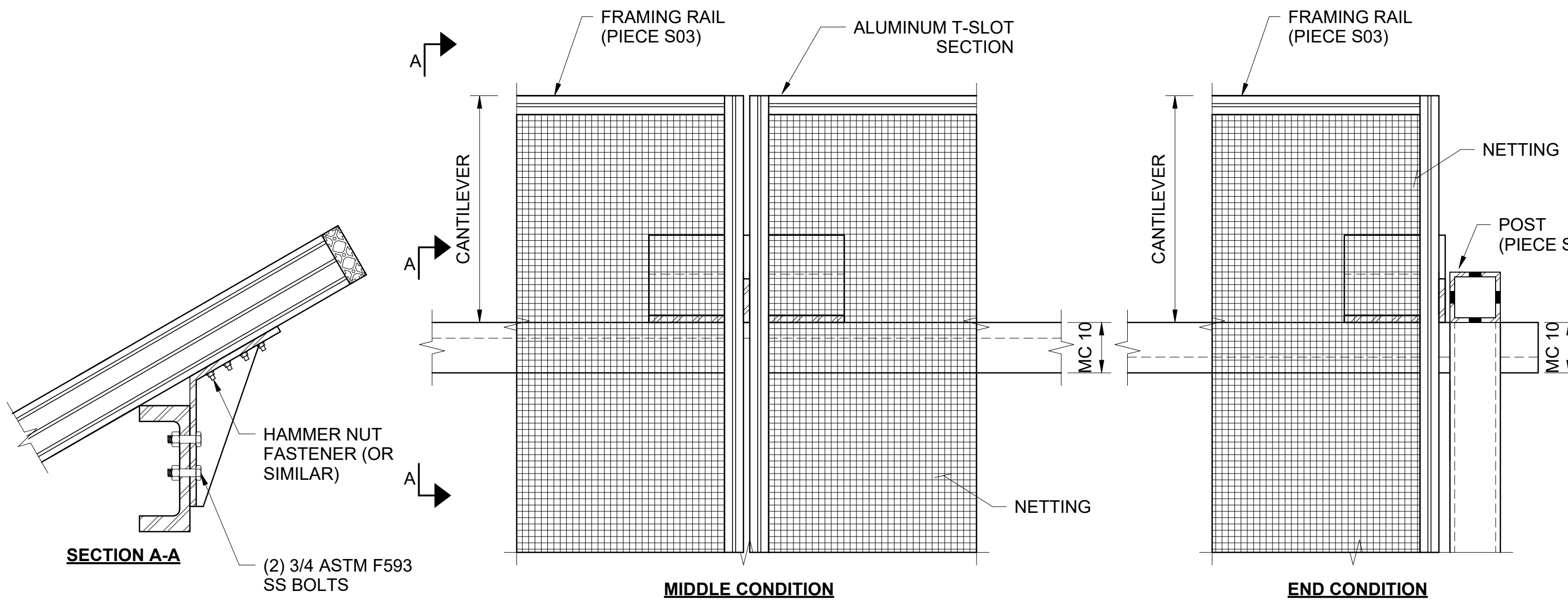
4 LIGHTING DETAIL

1 1/2" = 1'-0"



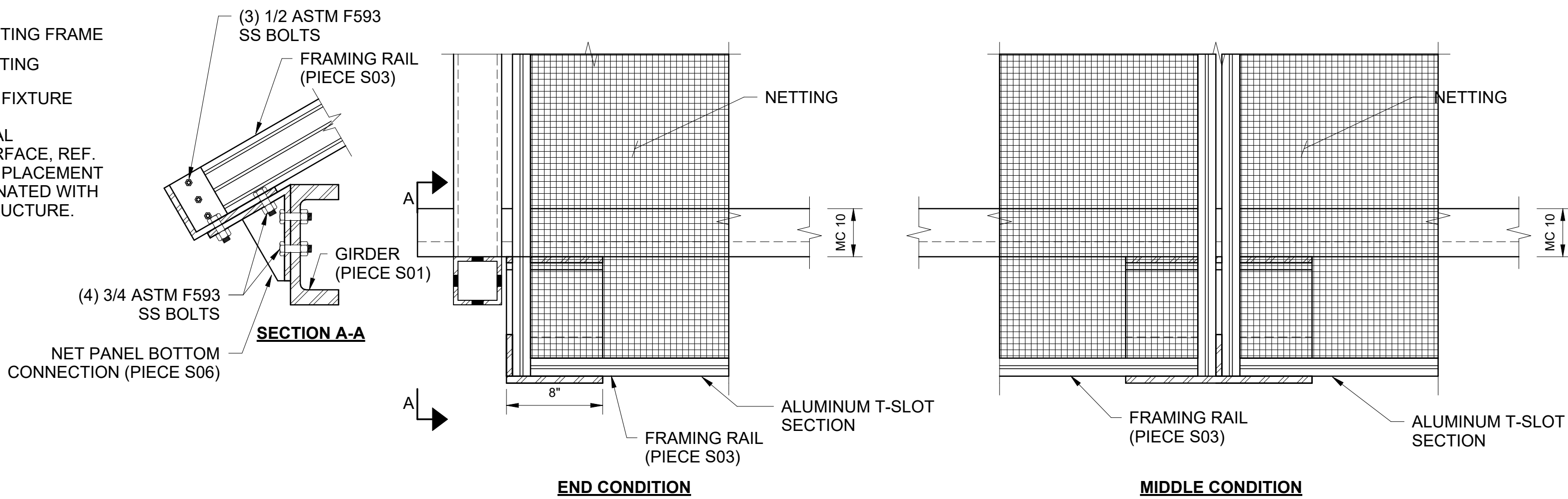
3 CHANNEL CONNECTION DETAILING

1 1/2" = 1'-0"



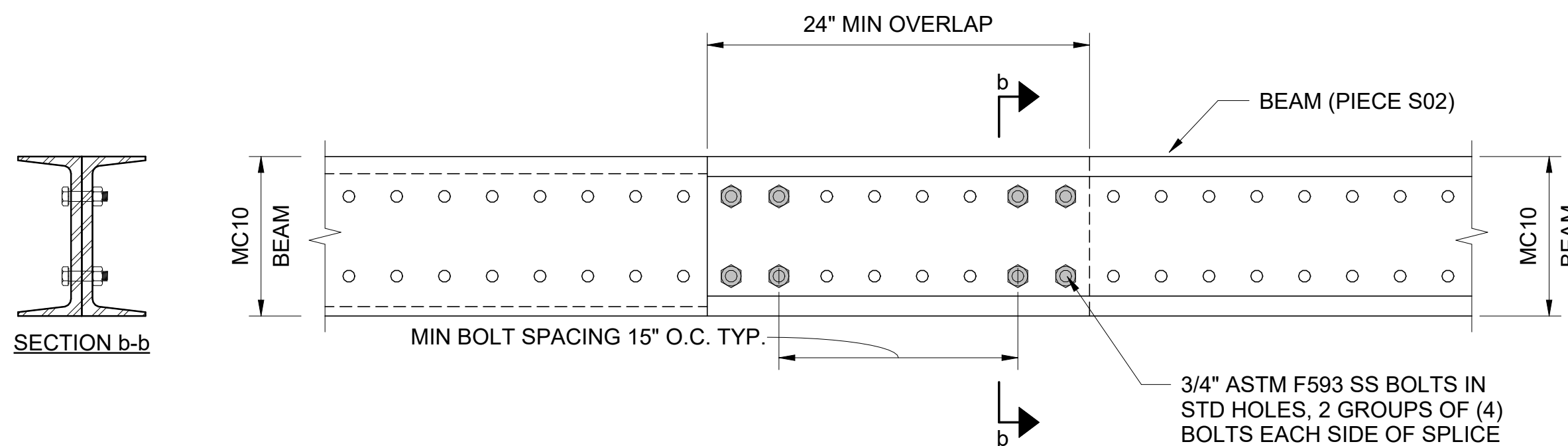
7 NET FRAME ATTACHMENT AT TOP OF SLOPE

1 1/2" = 1'-0"



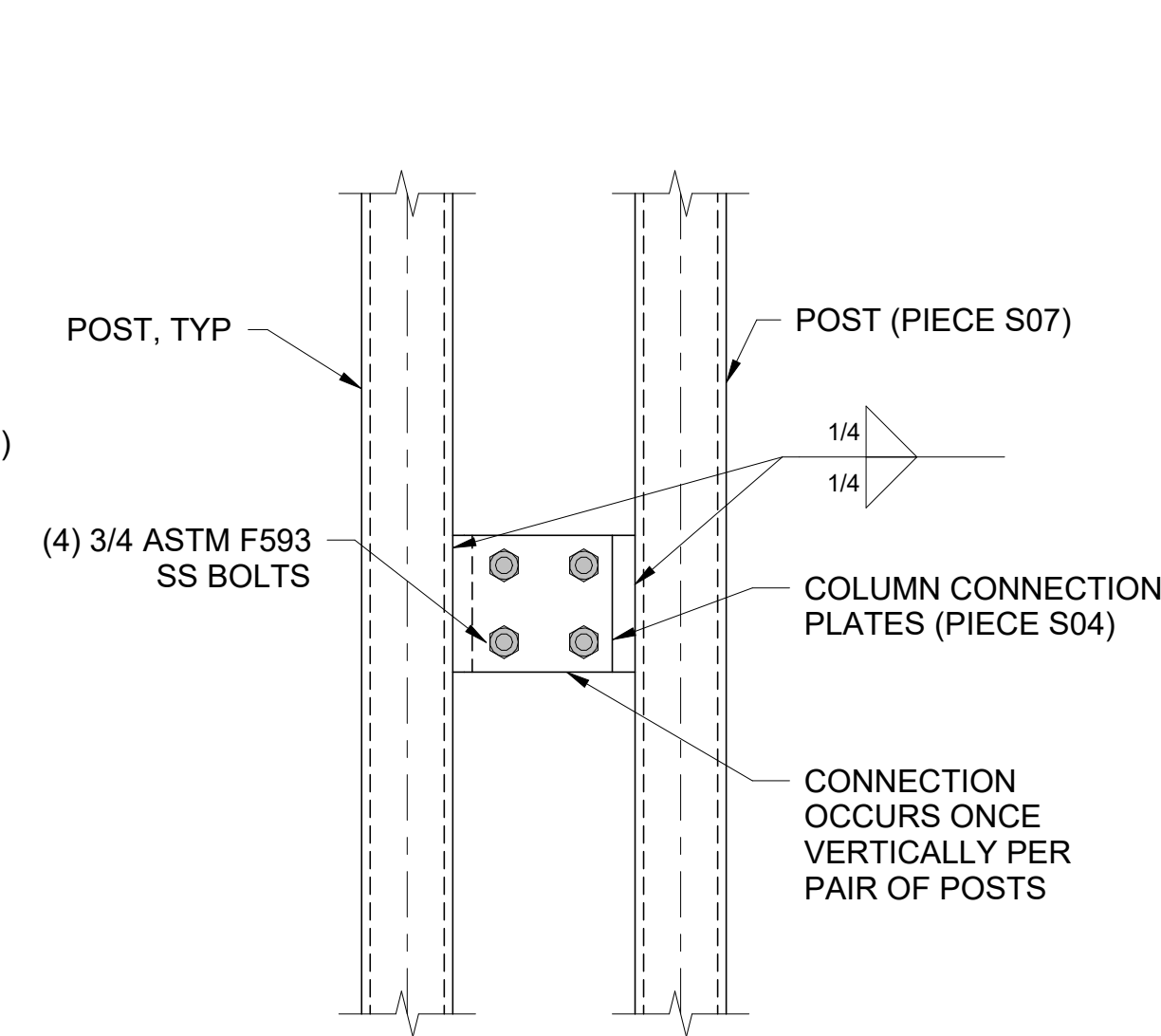
5 NET FRAME ATTACHMENT AT BOTTOM OF SLOPE

1 1/2" = 1'-0"



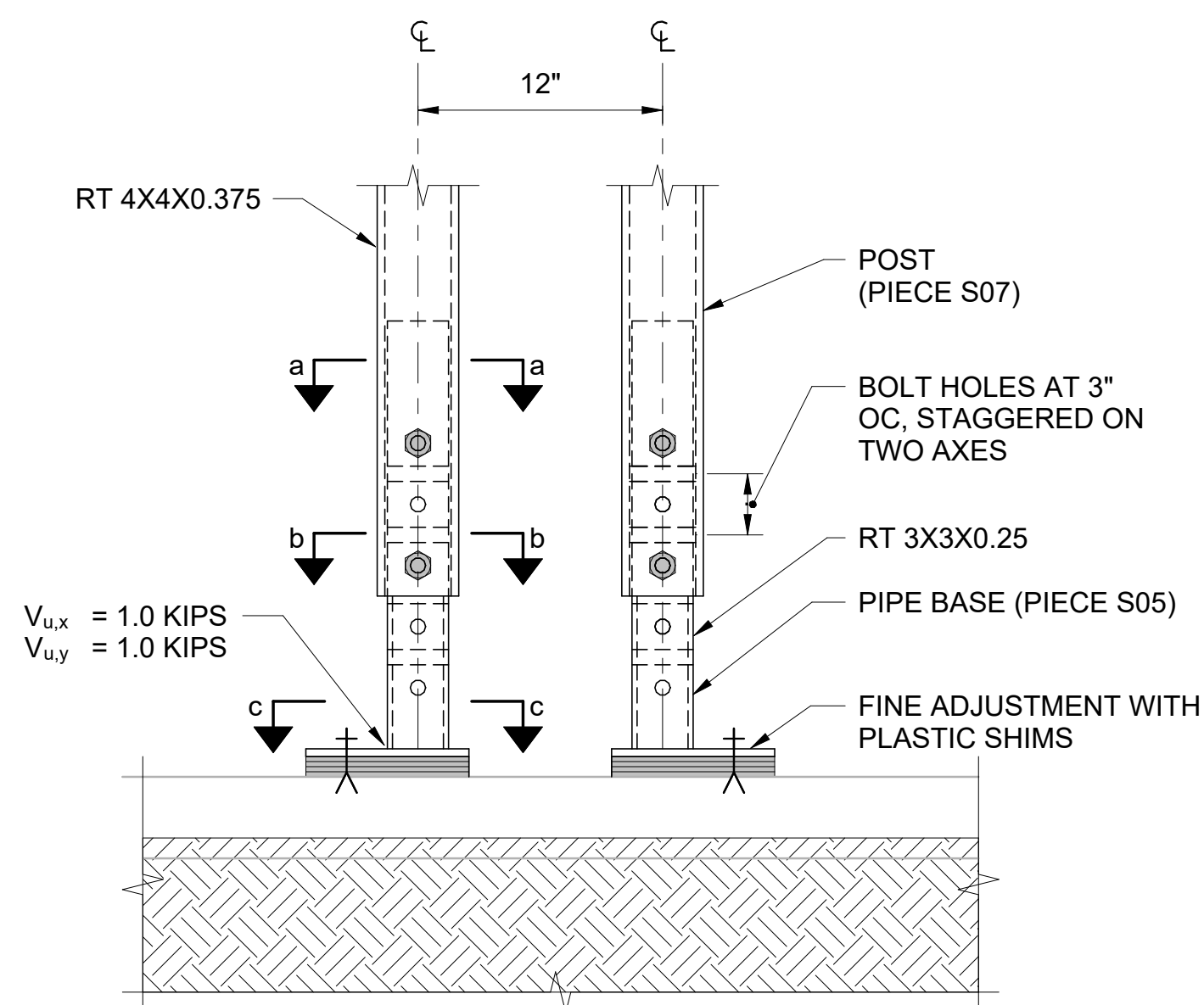
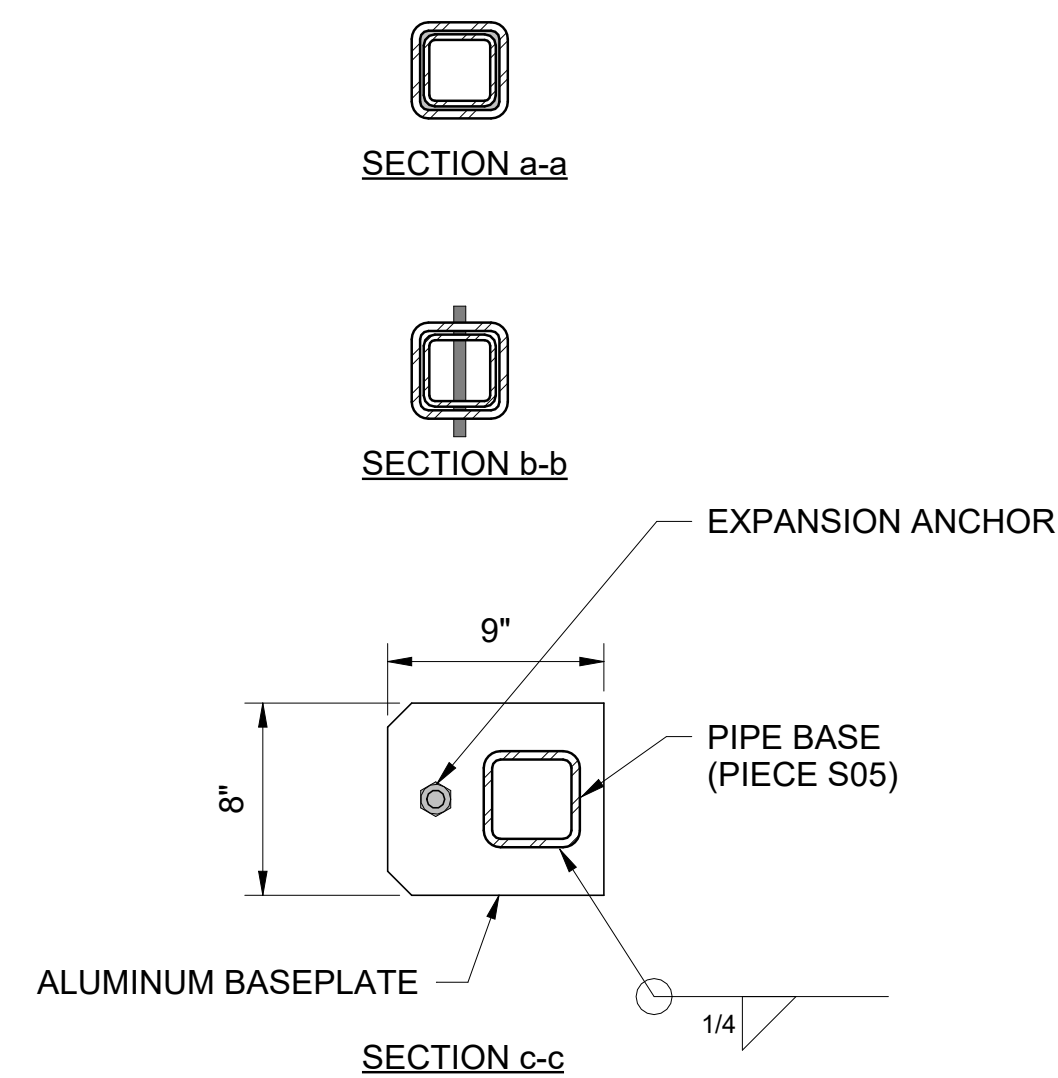
2 BEAM ADJUSTABILITY

1 1/2" = 1'-0"



8 PAIRED FRAME CONNECTION

1 1/2" = 1'-0"



1 ADJUSTABLE POST BASE

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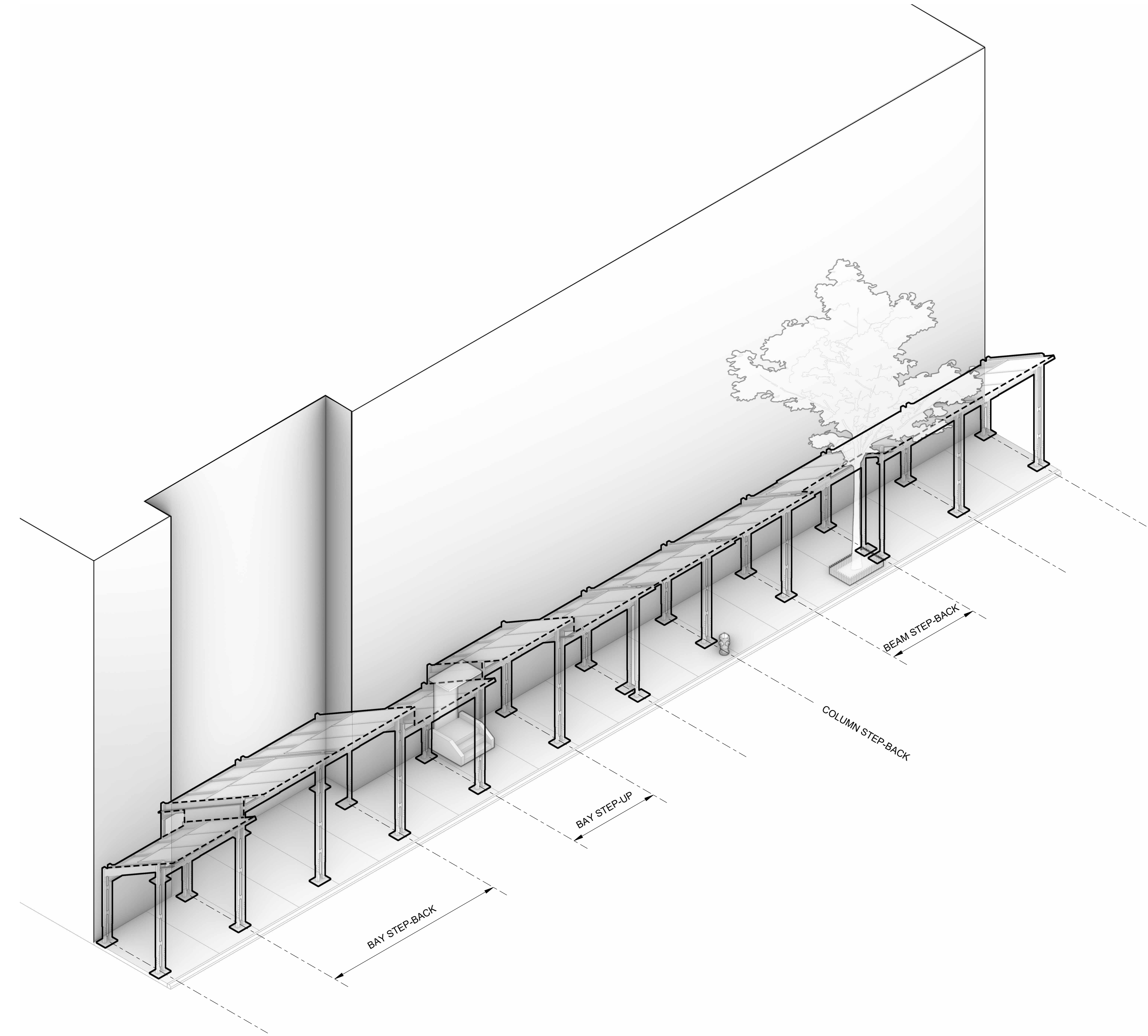
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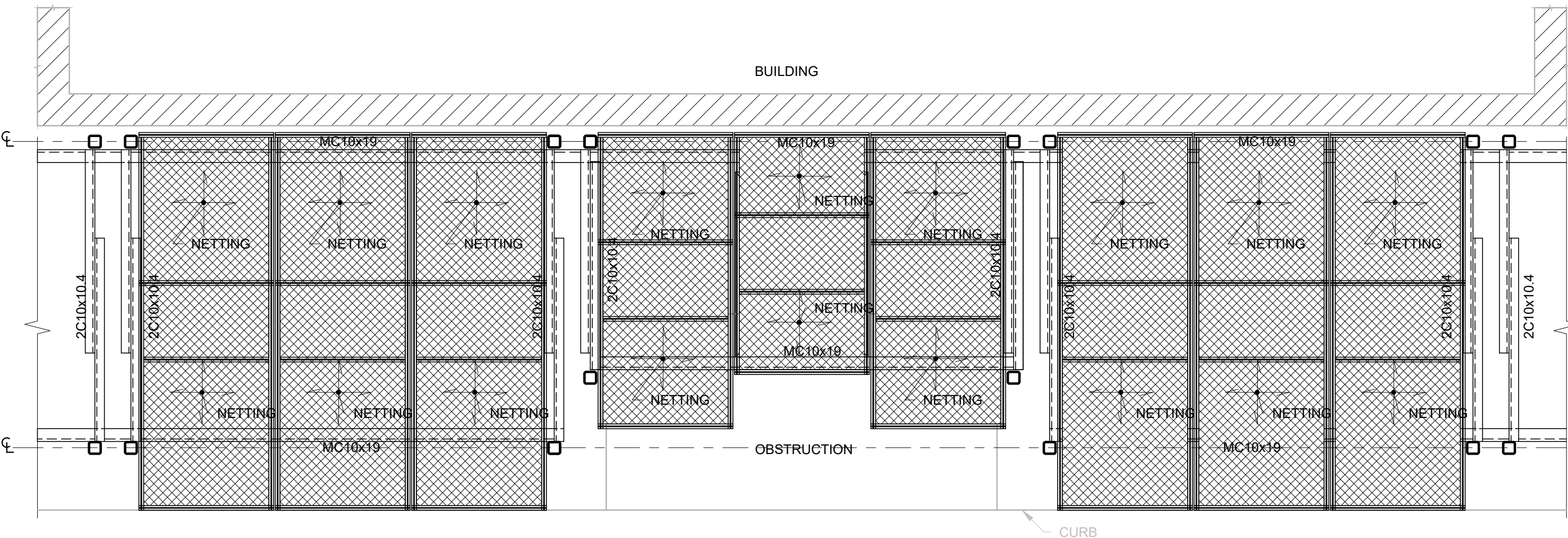
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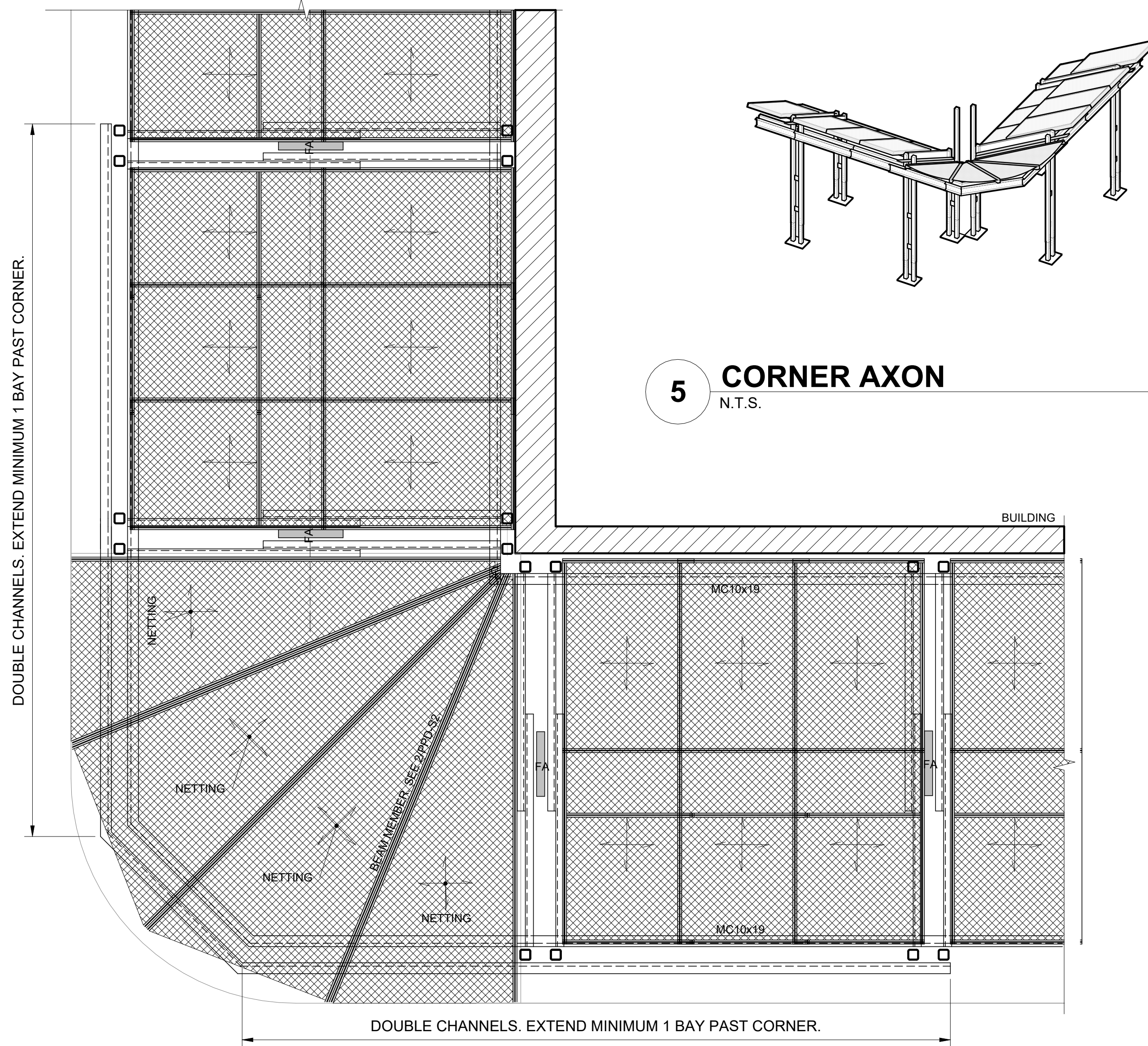
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3 SHED OBSTRUCTION DIAGRAM
N.T.S.

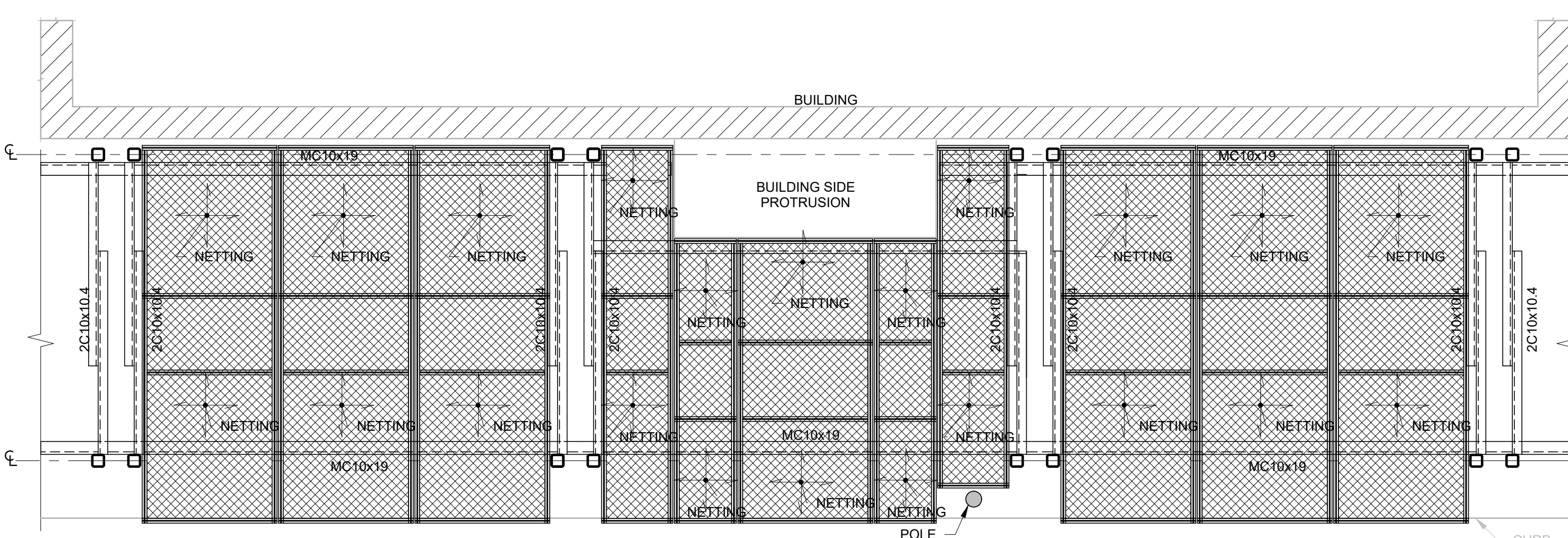


2 STREET SIDE OBSTRUCTION - PLAN
3/8" = 1'-0"



5 CORNER AXON
N.T.S.

4 CORNER PLAN
3/8" = 1'-0"



1 BUILDING OBSTRUCTION - PLAN
3/8" = 1'-0"

Pedestrian Protection Designs

SPEED SHED

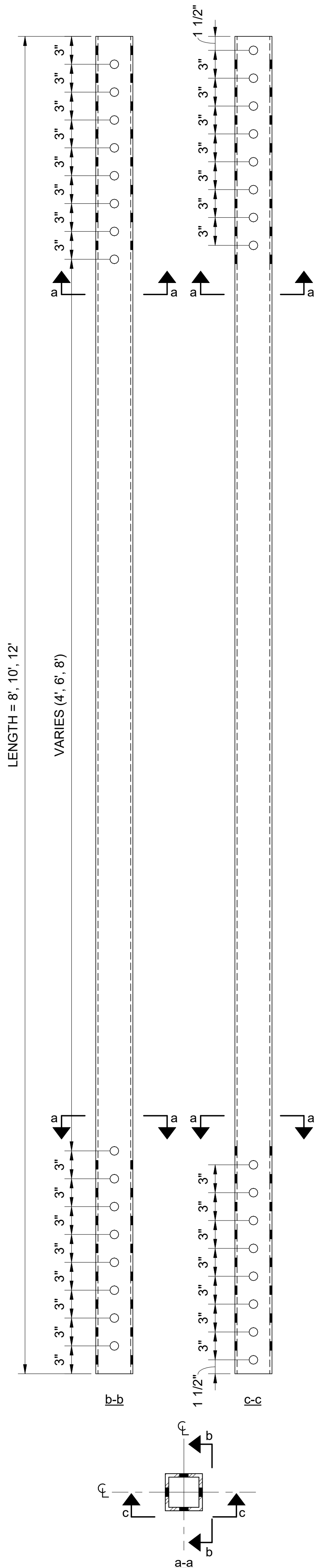
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Drawing Title
**SPECIAL CONDITION -
OBSTRUCTIONS & CORNER**

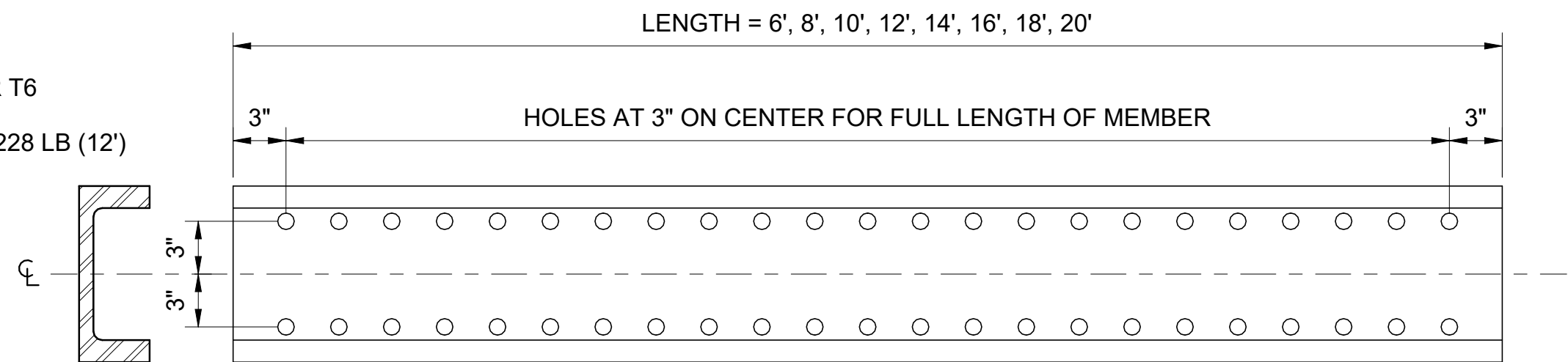
Drawing Number:

PPD-S4

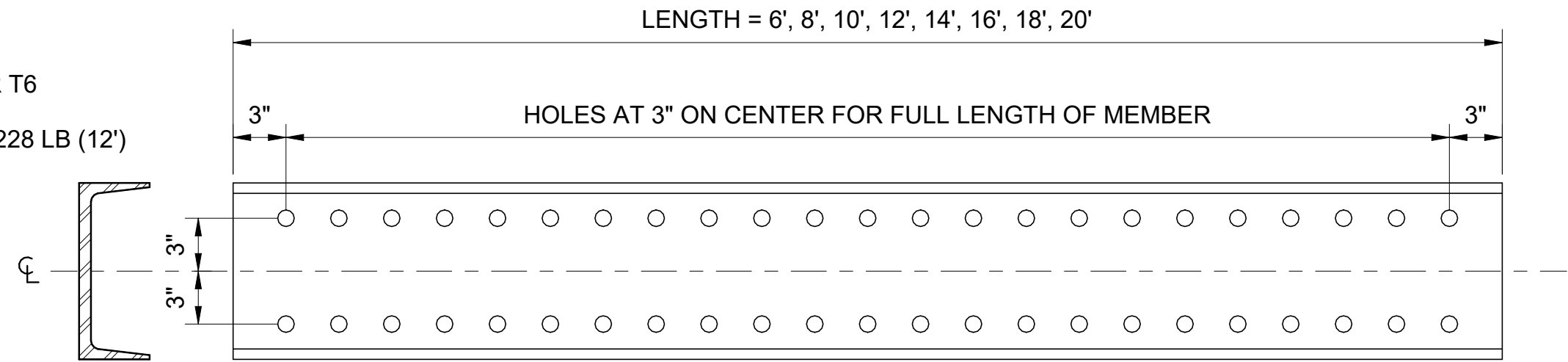
TYPE: POST
SECTION: RT 4x4x0.375.
MATERIAL GRADE: ALUMINUM ALLOY 6061 TEMPER T6
HOLES: 15/16" DIA., UON
PIECE WEIGHT: 51 LBS TO 77 LBS



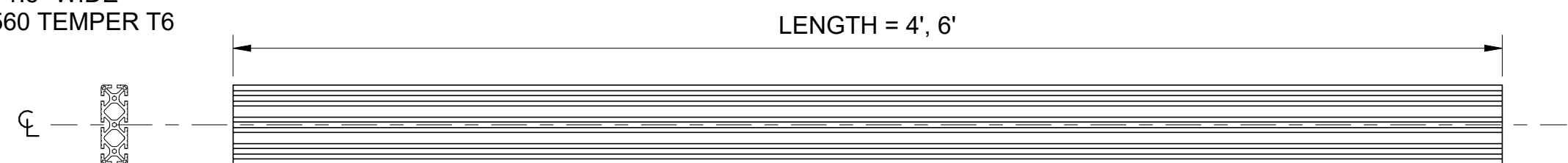
TYPE: GIRDER
SECTION: MC10x19
MATERIAL GRADE: ALLOY 6061 TEMPER T6
HOLES: 15/16" DIA., UON
PIECE WEIGHT: 152 LB (8'), 190 LB (10'), 228 LB (12')



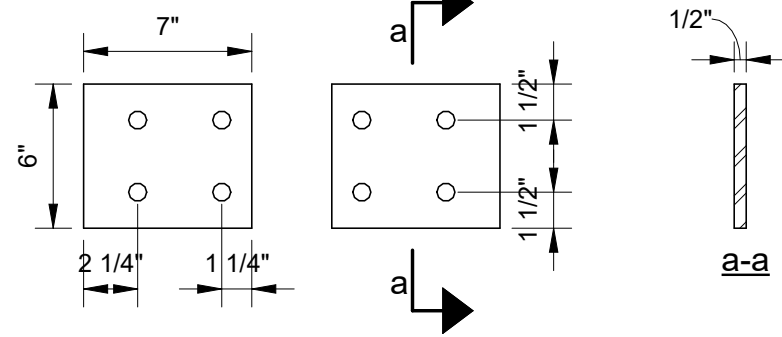
TYPE: BEAM
SECTION: C10x10.4
MATERIAL GRADE: ALLOY 6061 TEMPER T6
HOLES: 15/16" DIA., UON
PIECE WEIGHT: 152 LB (8'), 190 LB (10'), 228 LB (12')



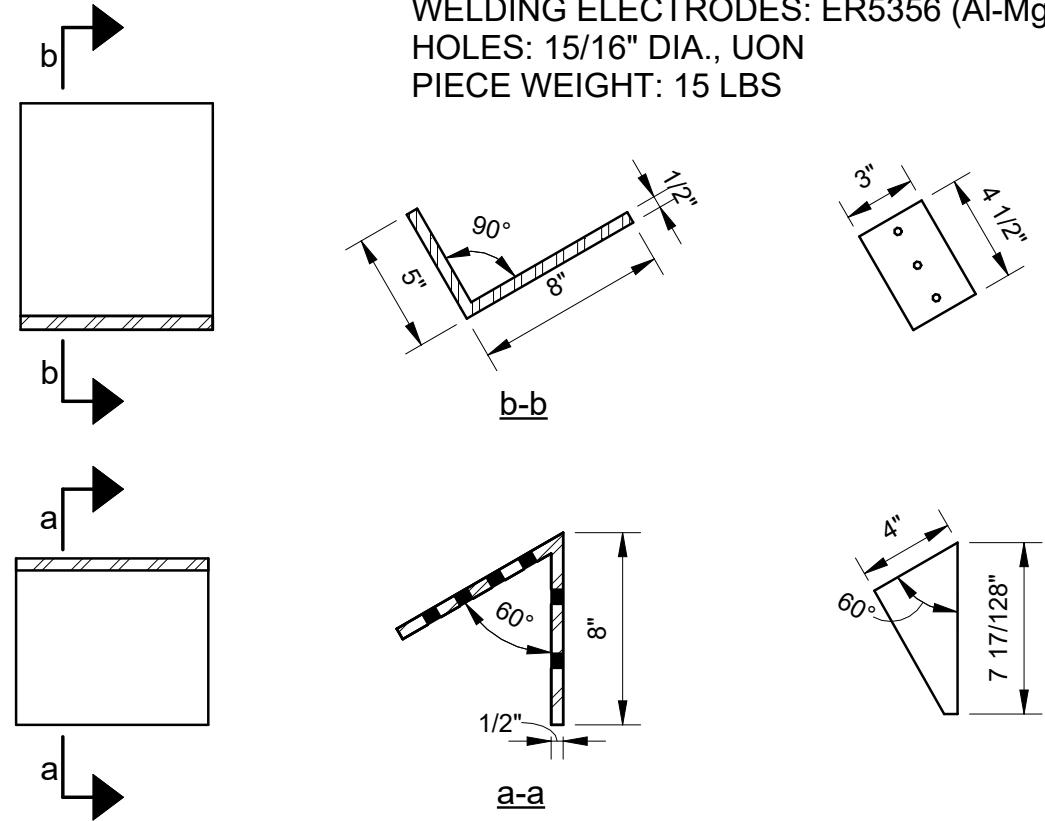
TYPE: FRAMING RAIL
SECTION: T-SLOTTED FRAMING
HOLLOW RAIL, TRIPLE RAIL, 4.5" HIGH X 1.5" WIDE
MATERIAL GRADE: ALUMINUM ALLOY 6060 TEMPER T6
FINISH: ANODIZED ALUMINUM
PIECE WEIGHT: 14 LB (4'), 21 LB (6')



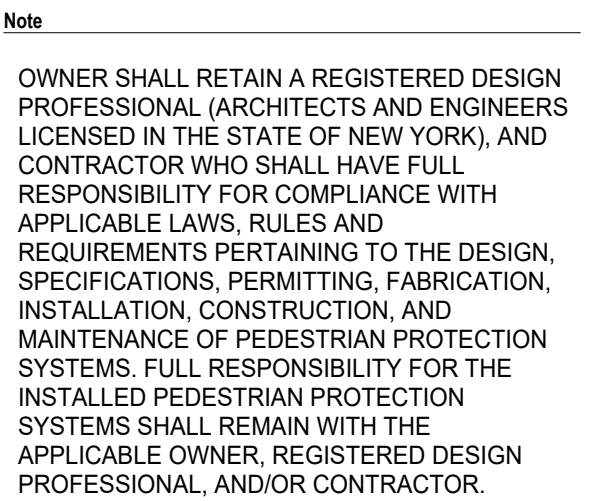
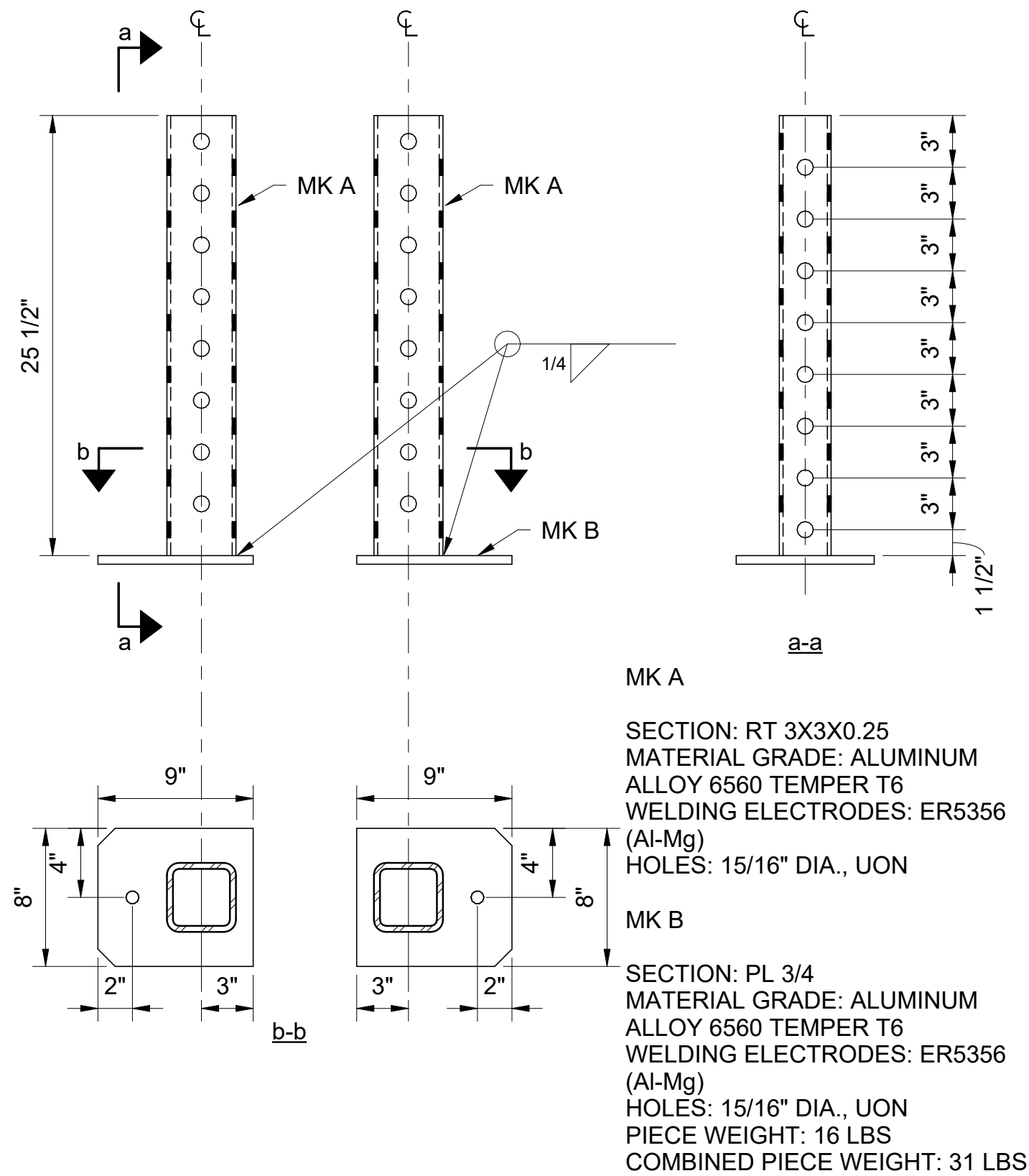
TYPE: COLUMN CONNECTION PLATES
SECTION: PL 1/2
MATERIAL GRADE: ALUMINUM ALLOY 6061 TEMPER T6
WELDING ELECTRODES: ER5356 (Al-Mg)
HOLES: 15/16" DIA., UON
PIECE WEIGHT: 6 LBS



MATERIAL GRADE: ALUMINUM ALLOY 6061 TEMPER T6
 WELDING ELECTRODES: ER5356 (Al-Mg)
 HOLES: 15/16" DIA., UON
 PIECE WEIGHT: 15 LBS



TYPE: PIPE BASE
SECTION: PL 1/2
MATERIAL GRADE: ALUMINUM ALLOY 6061 TEMPER T6
WELDING ELECTRODES: ER5356 (Al-Mg)
HOLES: 15/16" DIA., UON
PIECE WEIGHT: LBS



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**REFERENCE DESIGN ONLY.
SITE-SPECIFIC ENGINEERING
AND COMPLIANCE WITH
APPLICABLE LAWS AND
RULES REQUIRED.**

NO.	DESCRIPTION	DATE
1	FOR CAPA REVIEW	06.25.2026

Pedestrian Protection Designs

SPEED SHED

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Drawing Title

PARTS & PIECES

Drawing Number:

PPD-S5