

FLEX SHED



SHEETS

- PPD-F1 COVER
- PPD-F2 GENERAL NOTES
- PPD-F3 AXONOMETRIC
- PPD-F4 PLANS
- PPD-F5 ELEVATIONS
- PPD-F6 SECTIONS
- PPD-F7 DETAILS
- PPD-F8 DETAILS
- PPD-F9 DETAILS, MATERIAL AND FINISH SCHEDULES
- PPD-F10 DETAILS
- PPD-F11 LIGHTING



NOTES

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Project
Pedestrian Protection Designs
FLEX SHED

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Drawing Title
COVER

Drawing Number:	PPD-F1

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

PPD STRUCTURE CLASSIFICATION

SC-1. DESIGN AND CONSTRUCTION OF PEDESTRIAN PROTECTION SYSTEMS SHALL BE IN ACCORDANCE WITH REQUIREMENTS FOR BUILDING STRUCTURES AS REFERENCED IN GENERAL REQUIREMENTS AND CODES AND STANDARDS NOTES ON THIS DRAWING

GENERAL REQUIREMENTS

- GR-1. ALL DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
- A. GOVERNING CODE(S) AND STANDARDS.
 - B. DRAWINGS.
- GR-2. IN THE EVENT THAT CERTAIN DETAILS OF THE CONSTRUCTION ARE NOT FULLY SHOWN OR NOTED ON DRAWINGS, THEIR CONSTRUCTION SHALL BE OF THE SAME TYPE AS FOR SIMILAR CONDITIONS THAT ARE SHOWN OR NOTED, SUBJECT TO THE APPLICABLE ENGINEER OF RECORD'S APPROVAL.
- GR-3. ALL ELEVATIONS ARE RELATIVE TO TOP OF SIDEWALK UNLESS NOTED OTHERWISE.
- GR-4. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS BEFORE COMMENCING WITH THE WORK AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES WITH THE INFORMATION SHOWN ON THE DRAWINGS.
- GR-5. SCALES NOTED ON DRAWINGS ARE FOR REFERENCE ONLY. NO DIMENSIONAL INFORMATION SHALL BE OBTAINED BY SCALING FROM THE DRAWINGS. FINAL SITE-SPECIFIC INSTALLATIONS MAY VARY AND SHALL BE CONFIRMED BY THE ENGINEER.
- GR-6. DIMENSIONS TO STEEL MEMBERS ARE TO THEIR CENTERLINES UNLESS NOTED OTHERWISE.

CODES AND STANDARDS

- CS-1. WHERE CODES AND STANDARDS ARE REFERENCED IN THE DOCUMENTS, THEY SHALL BE THE LATEST EDITION OF THE BUILDING CODE REFERENCED BELOW, UNLESS NOTED OTHERWISE.
- CS-2. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NEW YORK CITY BUILDING CODE INCLUDING REFERENCE STANDARDS, ADDENDA AND APPENDICES.
- CS-3. IN ADDITION, THE FOLLOWING CODES, STANDARDS AND SPECIFICATIONS SHALL APPLY WHERE MORE STRINGENT AND AS MODIFIED BY THE BUILDING CODE:
- A. AISC: STEEL CONSTRUCTION MANUAL.
 - B. AISC 303-16: CODE OF STANDARD PRACTICE FOR STRUCTURAL STEEL BUILDINGS AND BRIDGES.
 - C. ANSI/AISC 360-16: SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS.
 - D. ASCE 7-16: MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.
 - E. AWS D1.1/D1.1M:2015: STRUCTURAL WELDING CODE - STEEL.
 - F. AWS D1.3/D1.3M:2008: STRUCTURAL WELDING CODE - SHEET STEEL.
 - G. RCSC-2014: SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS.
 - H. SSPC: THE SOCIETY FOR PROTECTIVE COATINGS STANDARDS.
- CS-4. THE ASTM STANDARDS REFERRED TO IN THE DRAWINGS AND USED IN DESIGN ARE THOSE INCLUDED AS REFERENCED STANDARDS TO THE PROJECT GOVERNING CODE(S). WHERE AN ASTM STANDARD HAS SUBSEQUENTLY BEEN REVISED, CONSTRUCTION SHALL COMPLY WITH BOTH THE LATEST EDITION OF THAT STANDARD AND THE EDITION OF THAT STANDARD REFERENCED IN DESIGN. WHERE IT IS NOT POSSIBLE TO SATISFY THE REQUIREMENTS OF BOTH EDITIONS OF THE STANDARDS DUE TO A CONFLICT BETWEEN THEM, NOTIFY THE APPLICANT OF RECORD BEFORE PROCEEDING.

DESIGN BASIS

- DB-1. DEAD LOADS:
- ACTUAL WEIGHT OF PEDESTRIAN PROTECTION SYSTEM STRUCTURAL FRAMING AND DECK ASSEMBLY.
- DB-2. LOADS IMPOSED FROM SCAFFOLD SYSTEMS SUPPORTED BY PEDESTRIAN PROTECTION SYSTEM FRAMING HAVE NOT BEEN INCLUDED AND MUST BE EVALUATED BY THE APPLICANT OF RECORD BASED ON SITE-SPECIFIC SCAFFOLD LOADING.
- DB-3. LIVE LOAD:
- LIGHT DUTY 150 PSF
- NO MATERIAL MAY BE STORED OR PLACED UPON SIDEWALK SHED.
- DB-4. WIND LOADS:
- IN ORDER TO AVOID ACTION PLAN SUBMITTAL REQUIREMENT, NO REDUCTION IN WIND LOADING HAS BEEN INCLUDED IN THE DESIGN. WIND LOADS HAVE BEEN CALCULATED ASSUMING INSTALLATIONS ARE PERMANENT.

PARAMETER	VALUE
BASIC DESIGN WIND SPEED, V	110 MPH
RISK CATEGORY	I
WIND EXPOSURE CATEGORY	D
GUST FACTOR, G	0.85
DIRECTIONALITY FACTOR, K _d	0.85

- DB-5. SEISMIC LOADS:
- | PARAMETER | VALUE |
|---|--------------------------|
| RISK CATEGORY | I |
| COMPONENT IMPORTANCE FACTOR, I _p | 1.0 |
| SHORT PERIOD SPECTRAL RESPONSE ACCELERATION, S _s | 0.296 g |
| 1 SEC PERIOD SPECTRAL RESPONSE ACCELERATION, S ₁ | 0.061 g |
| SITE CLASS | D |
| SHORT PERIOD SITE COEFFICIENT, F _a | 1.6 |
| 1 SEC PERIOD SITE COEFFICIENT, F _v | 2.4 |
| SHORT PERIOD DESIGN SPECTRAL RESPONSE ACCELERATION, S _{DS} | 0.308 g |
| 1 SEC DESIGN SPECTRAL RESPONSE ACCELERATION, S _{D1} | 0.118 g |
| SEISMIC DESIGN CATEGORY | B |
| ANALYSIS PROCEDURE | EQUIVALENT LATERAL FORCE |
| RESPONSE MODIFICATION FACTOR, R | 3.0 |
| OVERSTRENGTH FACTOR, Ω ₀ | 3.0 |
| DRIFT AMPLIFICATION FACTOR, C _d | 3.0 |

STRUCTURAL STEEL

- SS-1. STRUCTURAL STEEL MEMBERS SHALL CONFORM TO THE FOLLOWING:
- | SHAPE | GRADE | YIELD STRENGTH, F _y (KSI) |
|----------------------------|--------------------|--------------------------------------|
| ANGLES | ASTM A36 | 36 |
| PLATES | ASTM A572 GRADE 50 | 50 |
| SQUARE AND RECTANGULAR HSS | ASTM A500 GRADE C | 50 |
- SS-2. HIGH-STRENGTH BOLTS SHALL CONFORM TO THE FOLLOWING:
- | BOLT TYPE | REMARKS |
|-----------------|---|
| ASTM GRADE A325 | BOLTING ASSEMBLIES SHALL BE GALVANIZED. |
- SS-3. ALL BOLTED CONNECTIONS ARE TO BE BEARING-TYPE CONNECTIONS AND SHALL CONFORM TO THE FOLLOWING:
- A. BOLT HOLES SHALL BE STANDARD SIZE HOLES PER AISC 360 TABLE J3.3.
 - B. BOLTS SHALL BE TIGHTENED TO A SNUG TIGHT CONDITION IN ACCORDANCE WITH THE REQUIREMENTS OF THE RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS.
 - C. NYCBC TABLE 1705.2 SPECIAL INSPECTION REQUIREMENTS FOR HIGH STRENGTH BOLT MATERIAL AND BOLTING OF CONNECTIONS PRIOR TO AND DURING INSTALLATION OF PROTECTION SYSTEMS.
- MODIFICATIONS TO FABRICATED BOLT HOLE SIZES AND/OR CONNECTION PLATES PRIOR TO OR DURING INSTALLATION OF PROTECTION SYSTEMS WITHOUT APPROVAL BY THE APPLICABLE ENGINEER OF RECORD IS NOT PERMITTED.
- SS-4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING:
- A. ALL ERECTION AIDS.
 - B. STEELWORK ERECTION SEQUENCE.
- SS-5. THE CONTRACTOR SHALL SUBMIT DETAILED, COORDINATED AND CHECKED SHOP DRAWINGS FOR ALL STRUCTURAL STEEL MEMBERS AND CONNECTIONS TO THE APPLICABLE ENGINEER OF RECORD FOR REVIEW PRIOR TO THE START OF FABRICATION AND ERECTION.
- SS-6. CORROSION PROTECTION OF STRUCTURAL AND ARCHITECTURAL STEEL ELEMENTS SHALL BE PROVIDED BY HOT-DIP GALVANIZING AS NOTED. APPLICATION OF SUITABLE PRIMER AND PAINT SYSTEM, OR APPLICATION OF DUPLEX SYSTEM (PAINTING OVER HOT-DIP GALVANIZING) AS SHOWN ON THE DRAWINGS.
- SS-7. CUTTING AND DRILLING OF STRUCTURAL STEEL MEMBERS IN THE FIELD IS NOT PERMITTED UNLESS APPROVED BY THE ENGINEER OF RECORD.
- SS-8. NO OPENINGS AND/OR PENETRATIONS SHALL BE PLACED IN STEEL MEMBERS UNLESS SPECIFICALLY SHOWN AND DETAILED ON THE DRAWINGS.

STRUCTURAL STEEL WELDING

- SW-1. ALL WELDING SHALL BE DONE BY AWS CERTIFIED WELDERS IN ACCORDANCE WITH AWS D1.1.
- SW-2. SHOP DRAWINGS SHALL SHOW ALL WELDING WITH AWS A2.4 SYMBOLS.
- SW-3. WELDS SHALL BE MADE USING LOW-HYDROGEN ELECTRODES WITH MINIMUM TENSILE STRENGTH OF 70 KSI (E70XX ELECTRODES) UNLESS NOTED OTHERWISE. WHEN WELDING HIGHER GRADE STEEL TO LOWER GRADE STEEL, FILLER METAL WITH A "MATCHING" RELATIONSHIP TO BASE METAL AS DEFINED IN AWS D1.1 SHALL BE USED UNLESS NOTED OTHERWISE.
- SW-4. WHERE LENGTH OF WELD IS NOT SHOWN IT SHALL BE THE FULL LENGTH OF JOINT.
- SW-8. ALL GROOVE AND BUTT WELDS SHALL BE COMPLETE JOINT PENETRATION (CJP) WELDS UNLESS NOTED OTHERWISE.
- SW-9. ALL PARTIAL PENETRATION GROOVE WELD SIZES SHOWN ON THE DRAWINGS REFER TO THE EFFECTIVE THROAT THICKNESS.
- SW-10. FILLET WELD SIZES SHOWN ON DRAWINGS ARE MINIMUM LEG SIZES UNLESS NOTED OTHERWISE. INCREASE WELD SIZE TO AWS MINIMUM SIZES BASED ON PLATE THICKNESSES. THE MINIMUM FILLET WELD LEG SIZE SHALL BE 3/16". FILLET WELD EFFECTIVE THROAT SHALL BE TAKEN AS 0.707 TIMES THE SPECIFIED LEG DIMENSION UNLESS OTHERWISE NOTED. FOR SKEWED PLATE AND SIMILAR CONNECTIONS, MODIFY FILLET LEG DIMENSIONS PER AWS AS REQUIRED TO ACHIEVE THIS EFFECTIVE THROAT.
- SW-11. PROJECT SPECIFIC WELDING PROCEDURE SPECIFICATION (WPS) FOR ALL SHOP AND FIELD WELDS ON THE PROJECT SHALL BE SUBMITTED FOR REVIEW AND ACCEPTANCE PRIOR TO STARTING FABRICATION OR ERECTION. THE WPS SHALL BE SUBMITTED TO OWNER'S TESTING LAB FOR REVIEW AND ACCEPTANCE PRIOR TO BEING SUBMITTED TO THE APPLICABLE ENGINEER OF RECORD.
- SW-12. THE CONTRACTOR SHALL DETERMINE THE SEQUENCE AND PROCEDURES OF WELDING TO MINIMIZE THE EFFECT OF WELD SHRINKAGE, RESIDUAL STRESSES AND TO MAINTAIN ERECTION TOLERANCES.
- SW-13. ALL STEEL SHALL HAVE ADDITIONAL SEAL WELDING TO PROTECT THE MEMBERS (PIPES, TUBES, BUILT-UPS) AND THE CONNECTIONS FROM MOISTURE INFILTRATION. THESE ADDITIONAL SEAL WELDS SHALL BE SHOWN ON SHOP DRAWINGS.
- SW-14. WELD ACCESS HOLES SHALL BE PER AWS D1.1 AND/OR AISC 360, UNLESS NOTED OTHERWISE.
- SW-15. ALL WELD TABS ON ELEMENTS SHALL BE IN ACCORDANCE WITH AWS D1.1' CLAUSE 5.31.
- SW-16. ALL WELD TABS SHALL BE REMOVED FOLLOWING AWS D1.8/ CLAUSE 6.11.
- SW-17. WELD BACKING SHALL REMAIN IN PLACE UNLESS DEFINED OTHERWISE IN THE DETAILS OF THESE DRAWINGS.
- SW-18. REMOVAL OF WELD BACKING SHALL BE PER AWS D1.8/ CLAUSE 6.7 AND 6.8.

POST-INSTALLED ANCHORS

- PA-1. POST-INSTALLED CONCRETE EXPANSION ANCHORS SHALL BE CERTIFIED IN ACCORDANCE WITH THE REQUIREMENTS OF ICC-ED AC193.
- PA-2. ALL POST-INSTALLED ANCHORS SHALL BE HOT-DIP GALVANIZED.
- PA-3. POST-INSTALLED ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS INCLUDING REFERENCED APPROVAL DOCUMENTATION. INSTALLATION SHALL CONFORM TO NYCBC TABLE 1706.37 SPECIAL INSPECTION REQUIREMENTS FOR REQUIRED VERIFICATION AND INSPECTION OF POST-INSTALLED ANCHORS.

METAL DECK

- MD-1. MATERIAL FOR METAL DECK USED AS PART OF PLATFORM DECKING FOR PROTECTION SYSTEMS SHALL BE GALVANIZED AND CONFORM TO ASTM A653 WITH F_y = 33 KSI. MINIMUM DECK THICKNESS SHALL BE 20 GAUGE. THE FOLLOWING DECK TYPES MAY BE USED:
- A. 1 1/2" WIDE RIB ROOF DECK
 - B. 1" NON-COMPOSITE FLOOR DECK (FORM DECK)
- MD-2. DECK UNITS, WHETHER PARALLEL OR PERPENDICULAR TO SUPPORTS, SHALL BEAR A MINIMUM OF 2 INCHES ON SUPPORTING MEMBERS.
- MD-3. ATTACHMENT OF DECK UNITS SHALL BE MADE WITH STEEL TIE WIRE AS SPECIFIED BY THE ENGINEER OF RECORD.

METAL GRATING

- MG-1. MATERIAL FOR METAL GRATING SHALL BE ALUMINUM AND CONFORM TO ASTM B221 6063-T6.

POLYCARBONATE PANEL

- PC-1. MATERIAL FOR SOLID POLYCARBONATE PANEL SHALL CONFORM TO ASTM D3935 GROUP 01, SUITABLE FOR STRUCTURAL APPLICATIONS.

INFORMATIONAL SUBMITTALS

- IS-1. THE FOLLOWING DOCUMENTATION SHALL BE SUBMITTED WITH THE BUILDING PERMIT APPLICATION:
- A. QUALIFICATION DATA: FOR QUALIFIED INSTALLER, FABRICATOR, PROFESSIONAL ENGINEER, TESTING AGENCY.
 - B. WELDING CERTIFICATES.
 - C. PAINT COMPATIBILITY CERTIFICATES: FROM MANUFACTURERS OF TOPCOATS APPLIED OVER SHOP PRIMERS, CERTIFYING THAT SHOP PRIMERS ARE COMPATIBLE WITH TOPCOATS.
 - D. MILL TEST REPORTS FOR STRUCTURAL STEEL, INCLUDING CHEMICAL AND PHYSICAL PROPERTIES, REGARDLESS OF THICKNESS OR USE. REPORTS SHALL COMPLY WITH ASTM A6.
 - E. PRODUCT TEST REPORTS: FOR THE FOLLOWING:
 - 1. BOLTS, NUTS, AND WASHERS INCLUDING MECHANICAL PROPERTIES AND CHEMICAL ANALYSIS. CERTIFICATIONS FOR HIGH STRENGTH BOLTS SHALL CONFORM TO CERTIFICATION REQUIREMENTS CONTAINED IN ASTM A325.
 - 2. SHOP PRIMERS.
 - 3. WELDING ELECTRODES, FLUXES AND SHIELDED GAS PRODUCTS. CERTIFICATIONS SHALL SATISFY THE APPLICABLE AWS A5 AND PROJECT REQUIREMENTS.

QUALITY ASSURANCE

- QA-1. FABRICATOR QUALIFICATIONS: A QUALIFIED FABRICATOR THAT PARTICIPATES IN THE AISC QUALITY CERTIFICATION PROGRAM AND IS DESIGNATED AN AISC-CERTIFIED PLANT, CATEGORY BU OR IS ACCREDITED BY THE IAS FABRICATOR INSPECTION PROGRAM FOR STRUCTURAL STEEL (ACCEPTANCE CRITERIA 172).
- QA-2. INSTALLER QUALIFICATIONS: A QUALIFIED INSTALLER WHO PARTICIPATES IN THE AISC QUALITY CERTIFICATION PROGRAM AND IS DESIGNATED AN AISC-CERTIFIED ERECTOR.
- QA-3. WELDING QUALIFICATIONS: QUALIFY PROCEDURES AND PERSONNEL IN ACCORDANCE WITH AWS D1.1/D1.1M.

SOURCE QUALITY CONTROL

- SQC-1. TESTING AGENCY: OWNER SHALL ENGAGE A QUALIFIED TESTING AGENCY TO PERFORM SHOP TESTS AND INSPECTIONS.
- A. WELDED CONNECTIONS: VISUALLY INSPECT SHOP-WELDED CONNECTIONS IN ACCORDANCE WITH AWS D1.1/D1.1M AND THE FOLLOWING INSPECTION PROCEDURES, AT TESTING AGENCY'S OPTION:
 - 1. LIQUID PENETRANT INSPECTION: ASTM E165/E165M.
 - 2. MAGNETIC PARTICLE INSPECTION: ASTM E709; PERFORMED ON ROOT PASS AND ON FINISHED WELD. CRACKS OR ZONES OF INCOMPLETE FUSION OR PENETRATION ARE NOT ACCEPTED.
 - 3. ULTRASONIC INSPECTION: ASTM E164.
 - 4. RADIOGRAPHIC INSPECTION: ASTM E94/E94M.
 - B. PREPARE TEST AND INSPECTION REPORTS.

ERECTION

- ER-1. SET STRUCTURAL STEEL ACCURATELY IN ACCORDANCE WITH ANSI/AISC 303 AND ANSI/AISC 360.
- ER-2. MAINTAIN ERECTION TOLERANCES OF STRUCTURAL STEEL WITHIN ANSI/AISC 303.
- ER-3. ALIGN AND ADJUST VARIOUS MEMBERS THAT FORM PART OF COMPLETE FRAME OR STRUCTURE BEFORE PERMANENTLY FASTENING. BEFORE ASSEMBLY, CLEAN BEARING SURFACES AND OTHER SURFACES THAT ARE IN PERMANENT CONTACT WITH MEMBERS.



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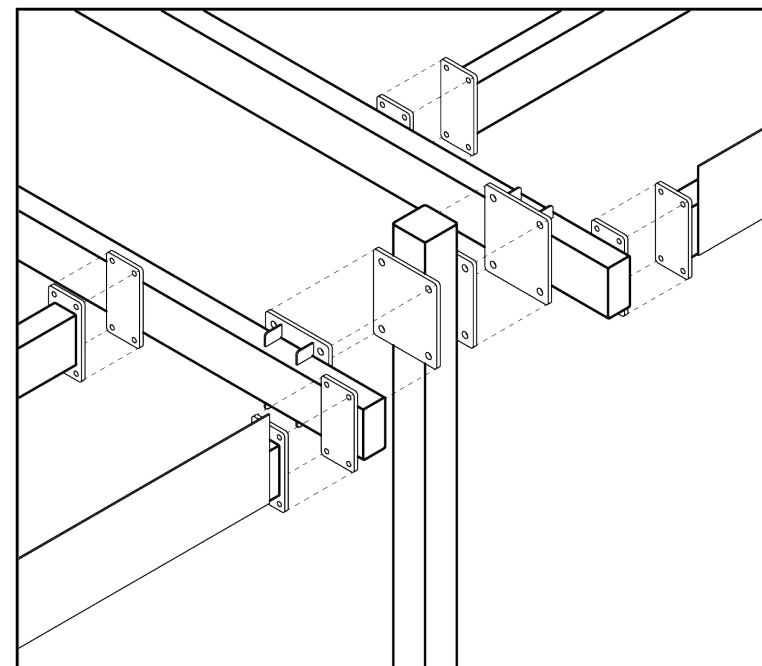
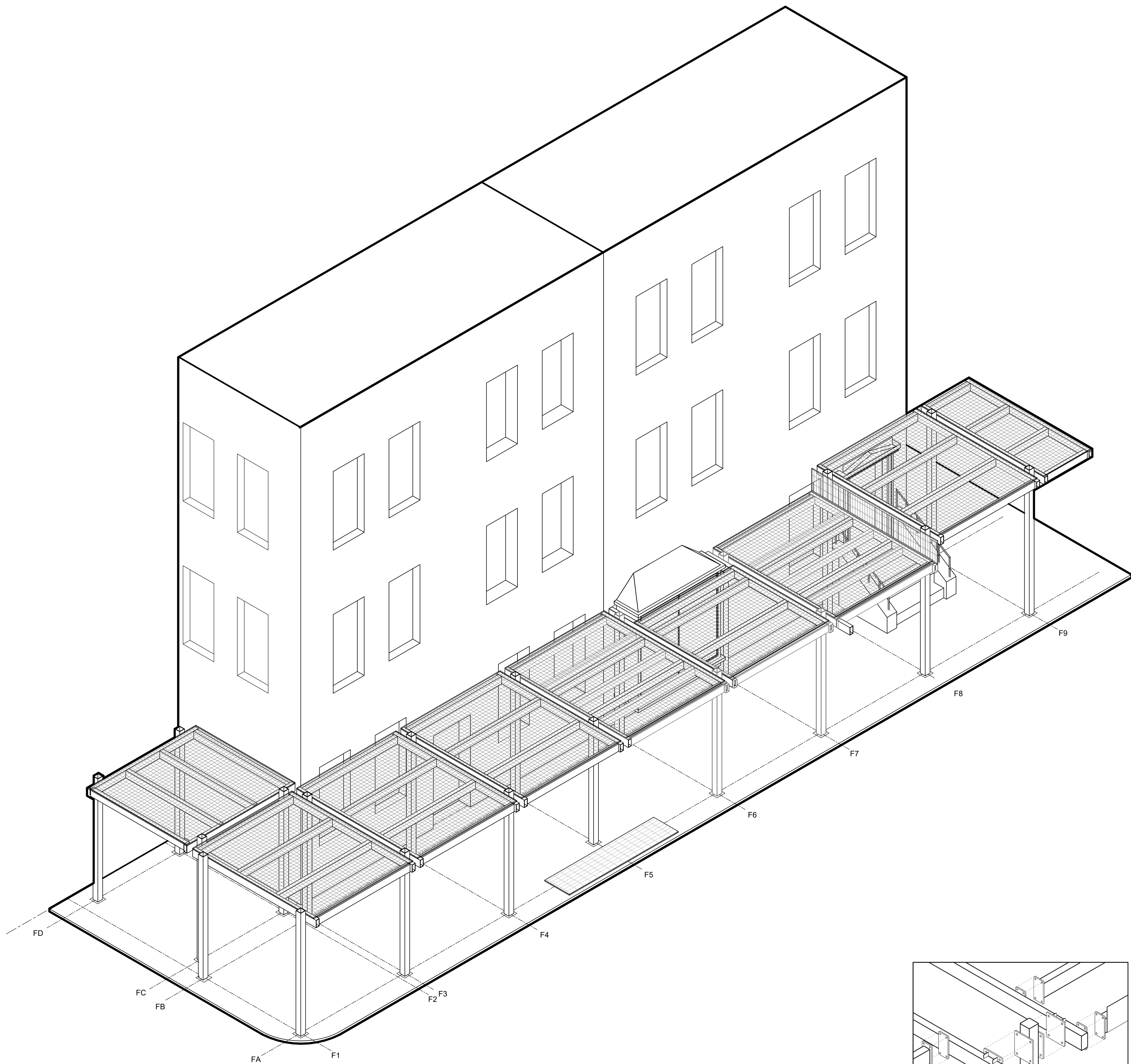
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Pedestrian Protection Designs
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Drawing Title
GENERAL NOTES

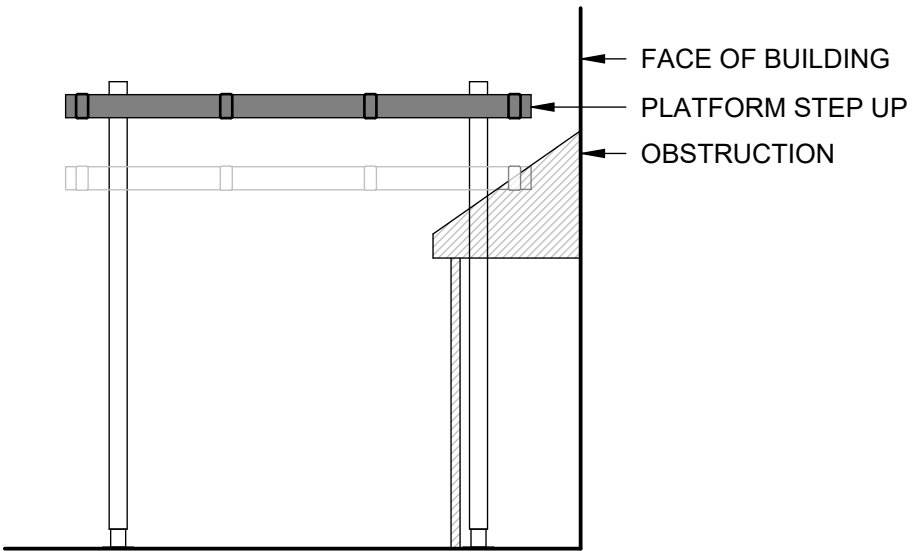
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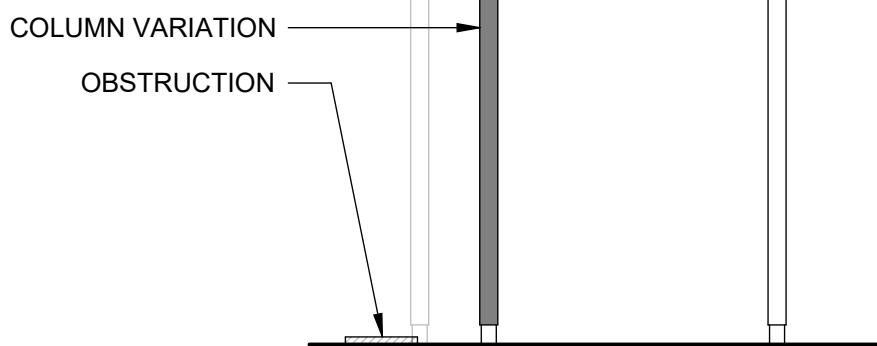


EXPLODED AXONOMETRIC - CONNECTION

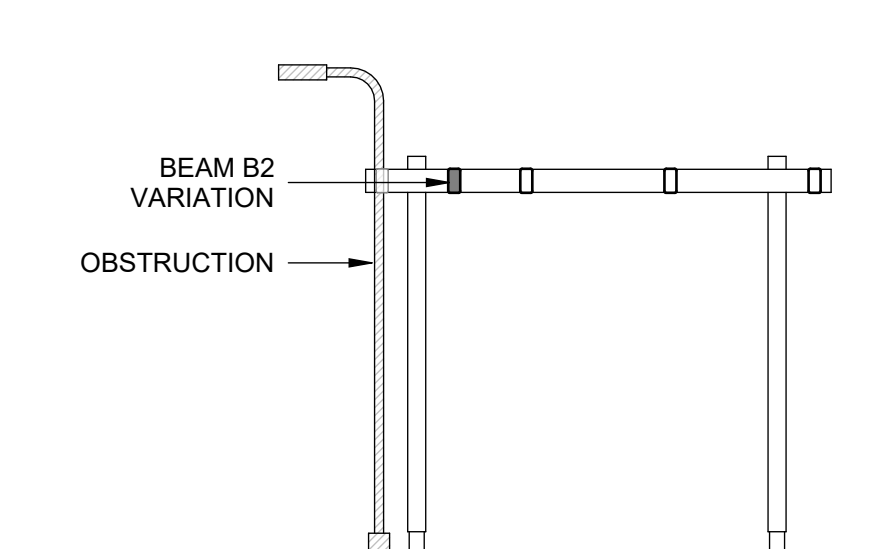
PLATFORM VARIATION



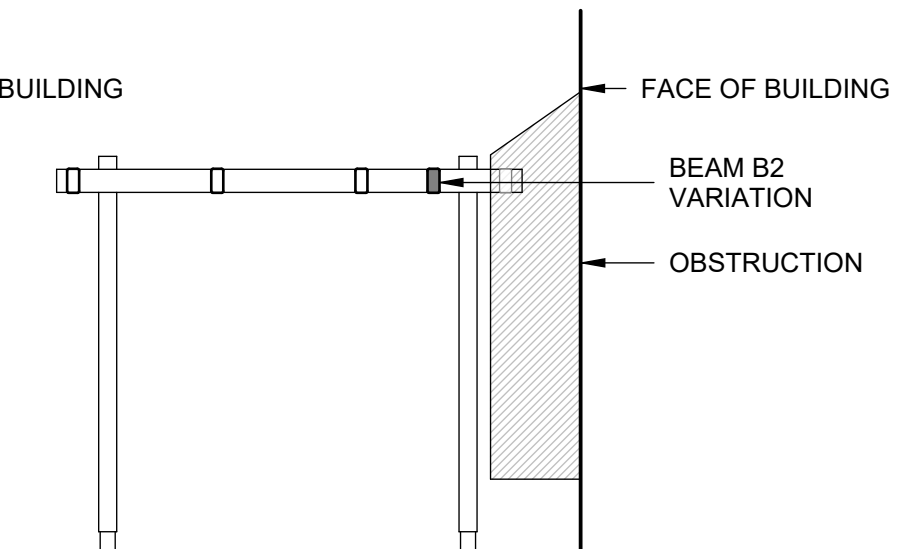
COLUMN VARIATION



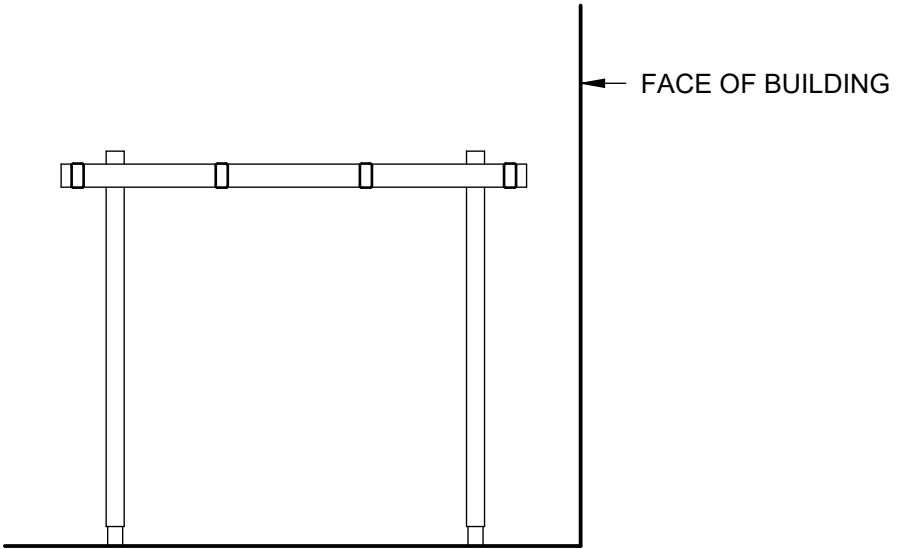
COLUMN VARIATION



BEAM VARIATION



TYPICAL BAY



SYSTEM DESCRIPTION:

1. LIGHT-DUTY SIDEWALK SHED SYSTEM WITH MEMBERS THAT VARY HORIZONTALLY AND VERTICALLY TO ACCOMODATE SITE SPECIFIC CONDITIONS.
2. LATERAL AND GRAVITY LOAD RESISTANCE PROVIDED BY A RIGID MOMENT FRAME STRUCTURE AND CONNECTIONS AS DEFINED IN THE DRAWINGS.
3. PLATFORM BEAM ASSEMBLY CREATES AN IN-PLANE DIAPHRAGM FOR LOAD DISTRIBUTION TO RIGID MOMENT FRAME AT COLUMN LINES.
4. SYSTEM CAN ACCOMMODATE TRANSPARENT, TRANSLUCENT, OR SOLID DECK TYPE OPTIONS.



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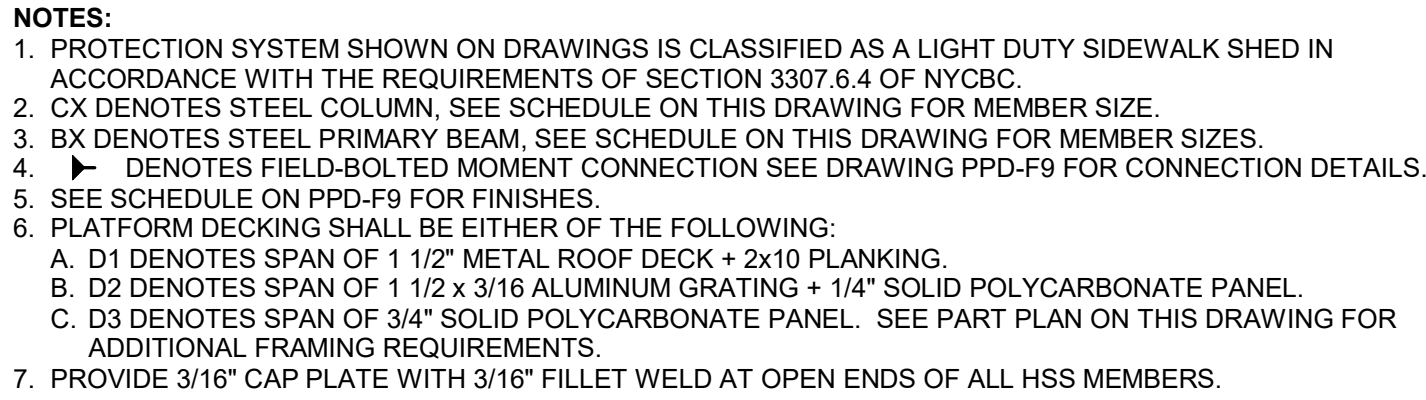
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Pedestrian Protection Designs
FLEX SHED

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Drawing Title
AXONOMETRIC

Drawing Number:
PPD-F3



MEMBER SIZE TABLE					
HEIGHT, H	MEMBER	SPAN LENGTH, L (FT)			
		PARALLEL TO STREET		PERPENDICULAR TO STREET	
		L ≤ 10	10 < L ≤ 12	L ≤ 10	10 < L ≤ 12
H ≤ 10 FT	C1	HSS6x6x3/8	HSS6x6x3/8	HSS6x6x3/8	HSS6x6x3/8
	B1	HSS8x4x1/4	HSS8x4x5/16	HSS8x4x5/16	HSS10x4x5/16
	B2	HSS8x4x5/16	HSS8x4x5/16	HSS8x4x5/16	HSS10x4x5/16
H ≤ 12 FT	C1	HSS6x6x3/8	HSS6x6x3/8	HSS6x6x1/2	HSS6x6x1/2
	B1	HSS8x4x5/16	HSS8x4x5/16	HSS8x4x5/16	HSS10x4x5/16
	B2	HSS8x4x5/16	HSS8x4x5/16	HSS8x4x5/16	HSS10x4x5/16

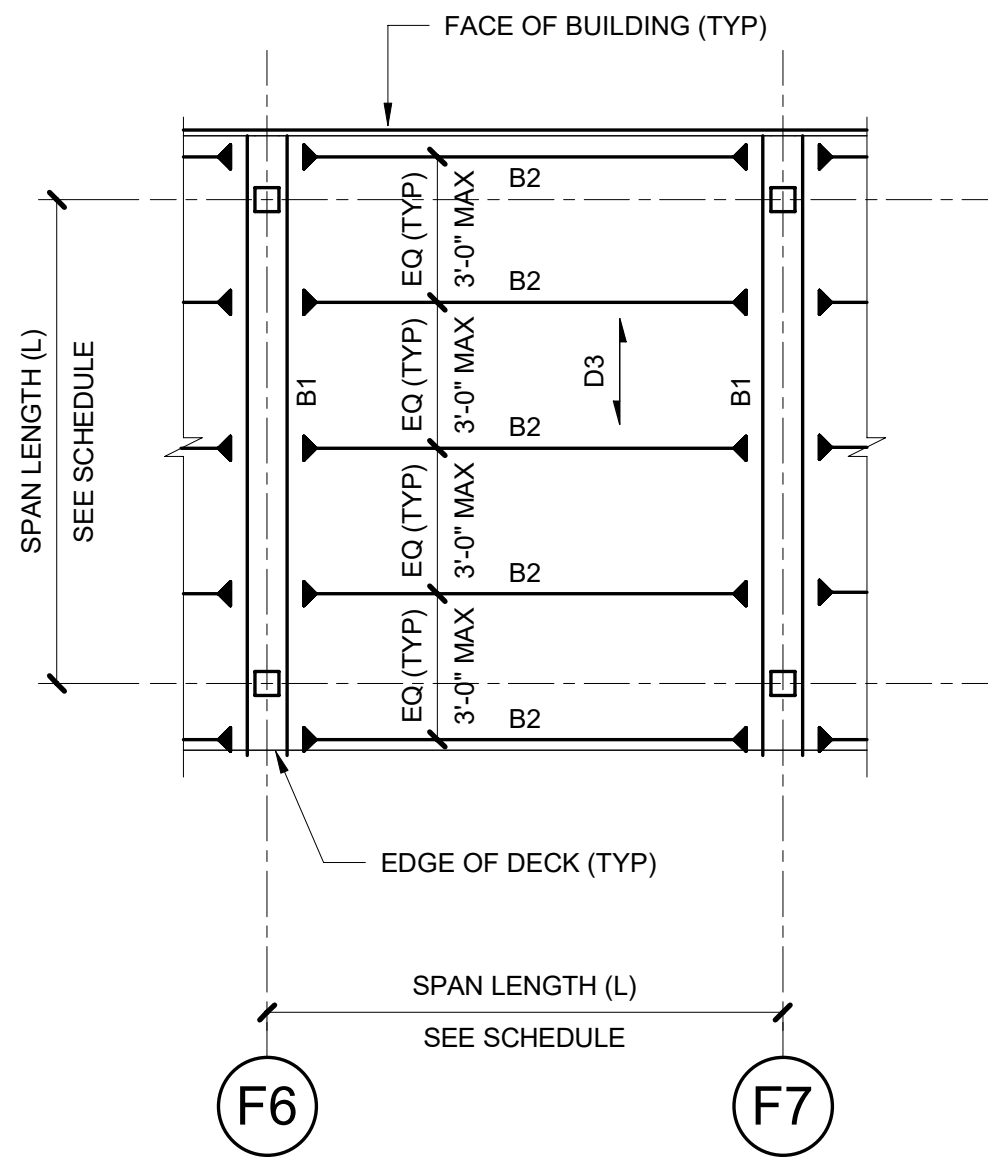
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NOTES:
1. WHERE PLATFORM DECK TYPE D3 IS SPECIFIED,
PROVIDE ADDITIONAL B2 BEAMS AS NOTED.



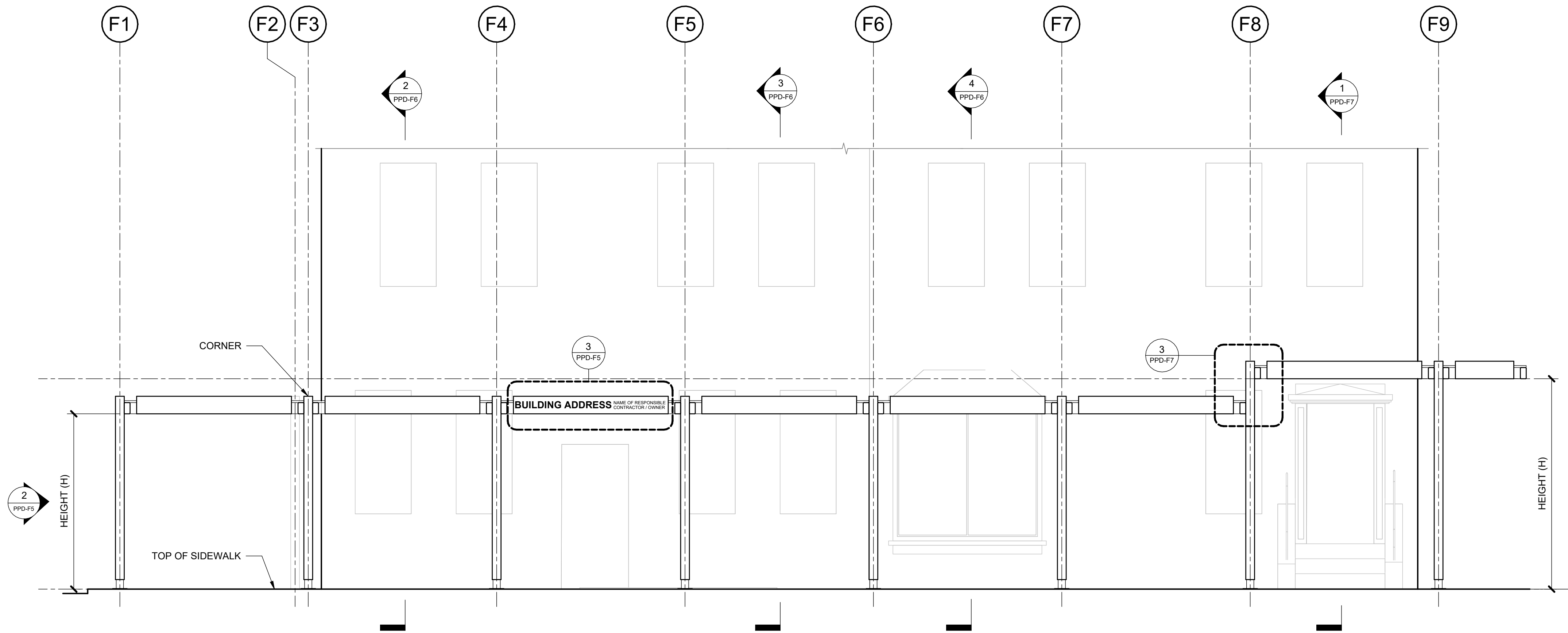
REFERENCE DESIGN ONLY. SITE SPECIFIC ENGINEERING AND COMPLIANCE WITH APPLICABLE LAWS AND RULES REQUIRED.

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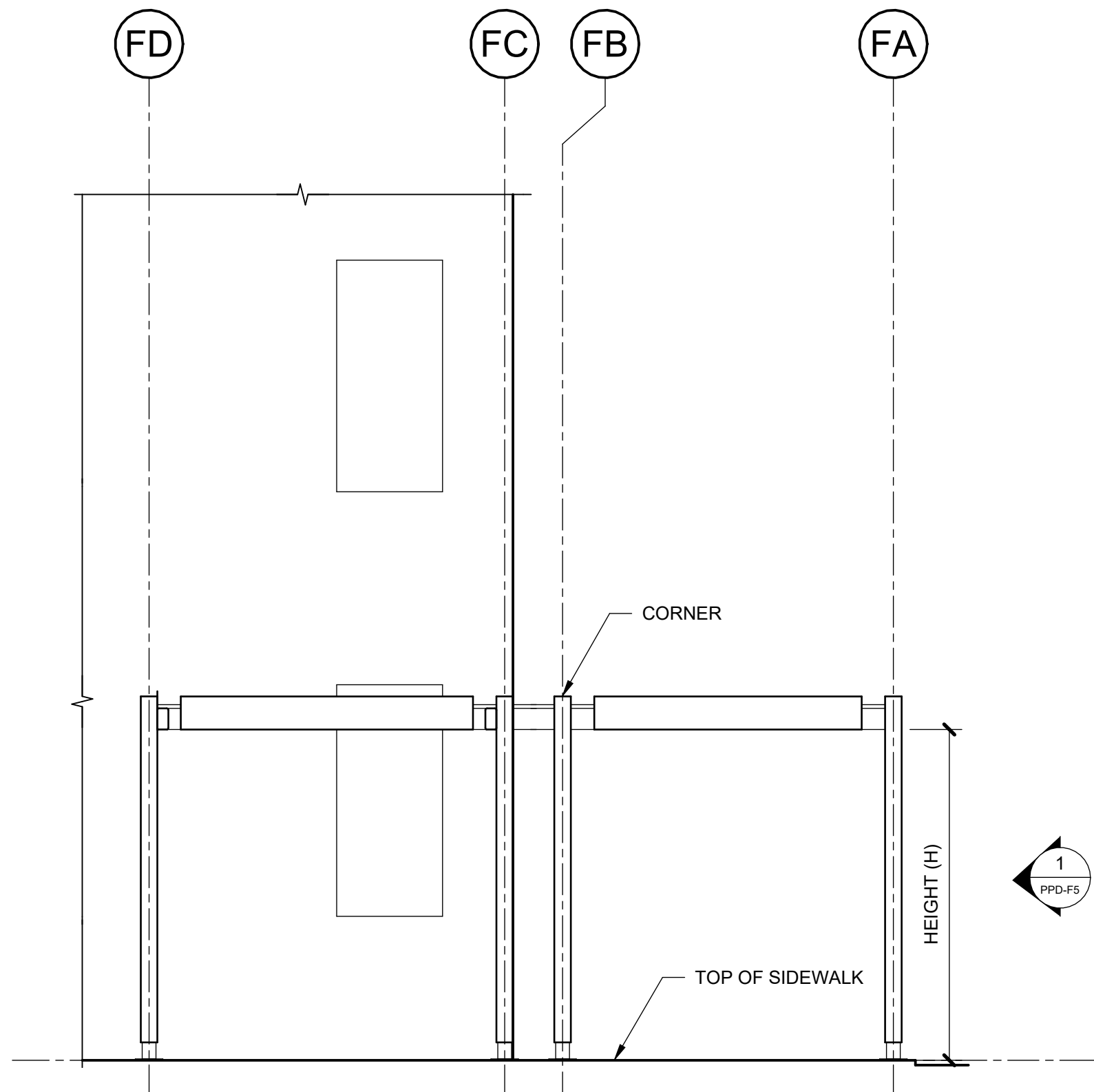
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NOTES:
1. FOR H DIMENSION REFER TO SCHEDULE ON DRAWING PPD-F4
2. FOR DECK TYPE OPTIONS SEE DRAWINGS PPD-F8 & PPD-F9

1 ELEVATION

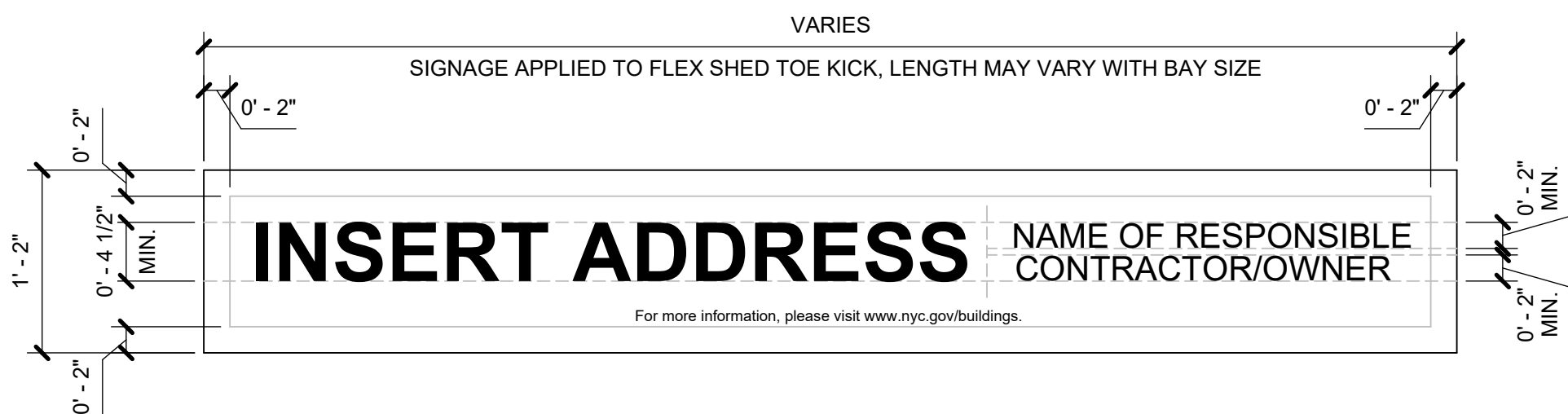
1/4" = 1'-0"



NOTES:
1. FOR H DIMENSION REFER TO SCHEDULE ON DRAWING PPD-F4
2. FOR DECK TYPE OPTIONS SEE DRAWINGS PPD-F8 & PPD-F9

2 ELEVATION

1/4" = 1'-0"



NOTE: CUT VINYL LETTERING PRE-SPACED AND PRE-MASKED WITH TRANSFER TAPE - COLOR MATCHED TO SIDEWALK SHED AND SIZED PER NYC BUILDING CODE REQUIREMENTS FOR SIGNAGE ON SIDEWALK SHED

3 DETAIL - SIGNAGE

1" = 1'-0"

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FLEX SHED

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Drawing Title
ELEVATIONS

Drawing Number:

PPD-F5

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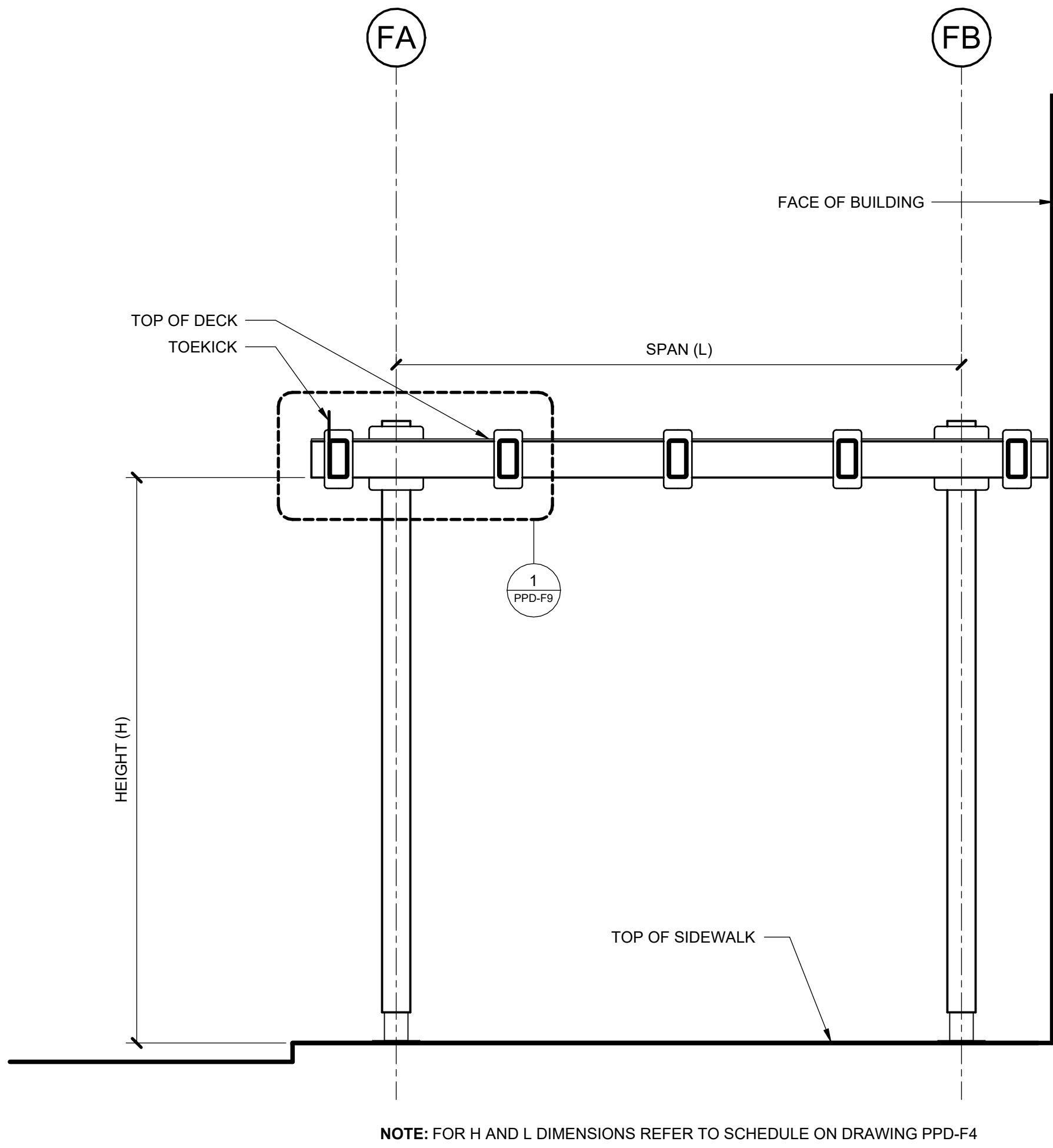
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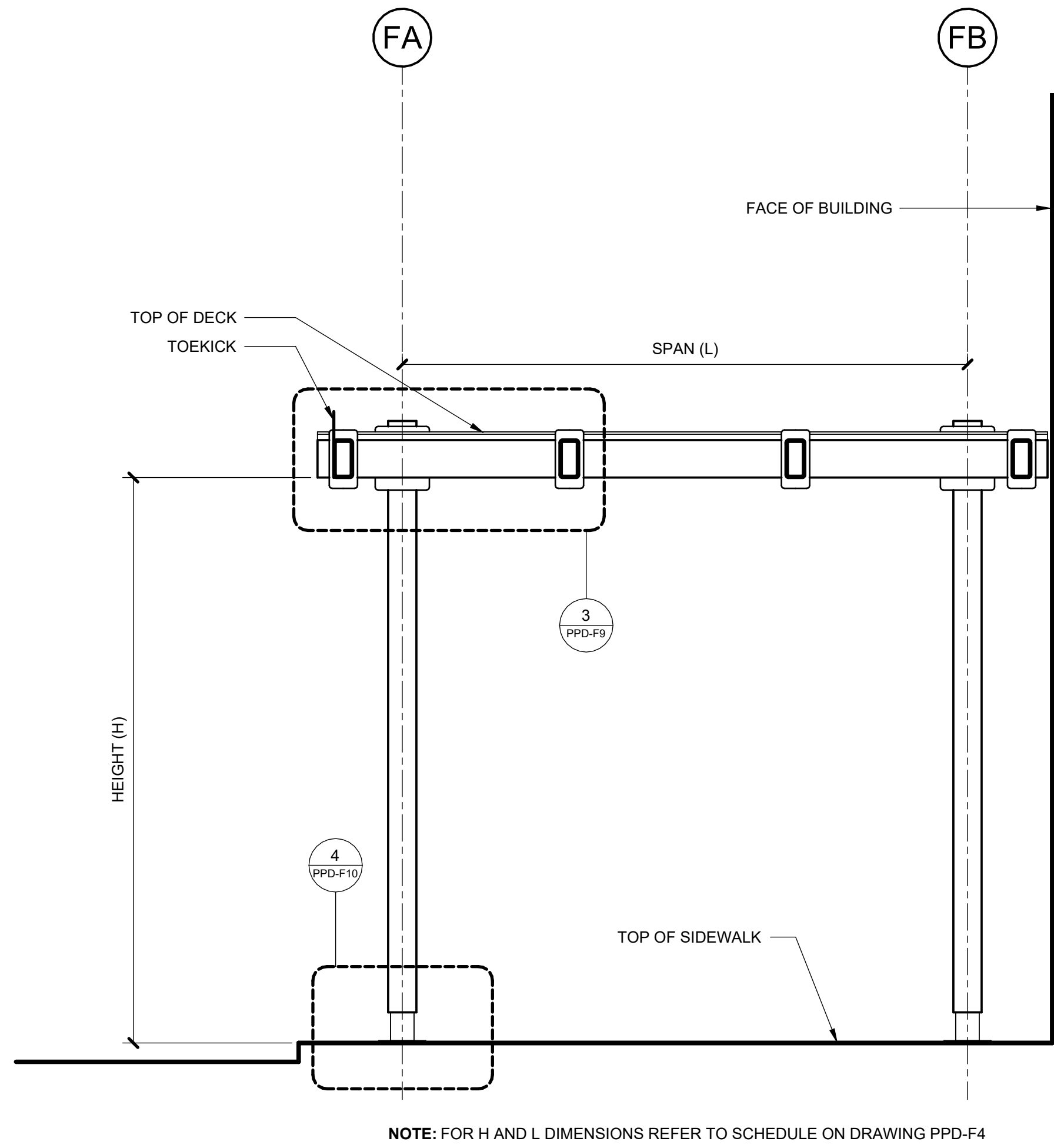
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New York City Department of Buildings

Drawing Title
SECTIONS

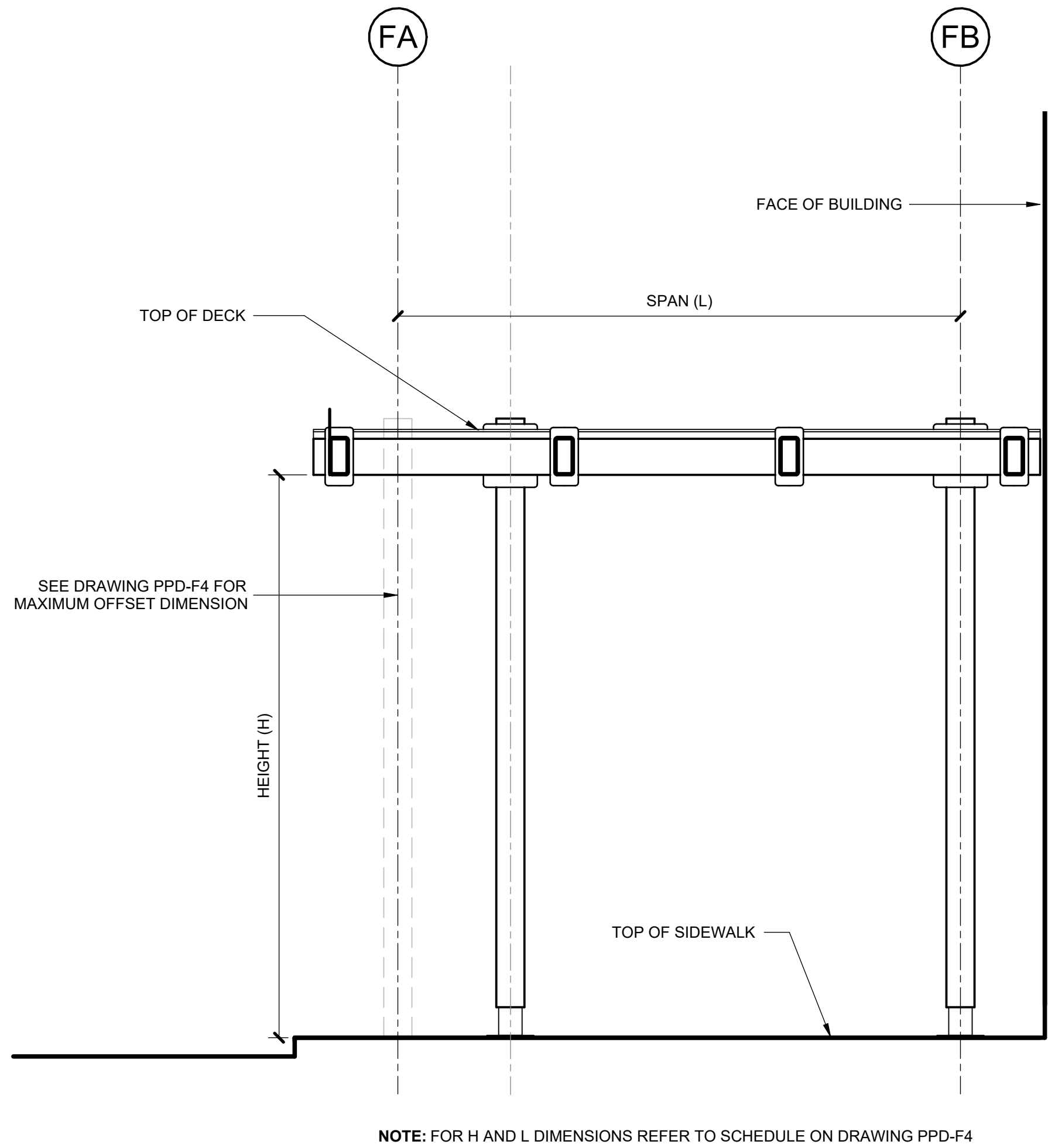
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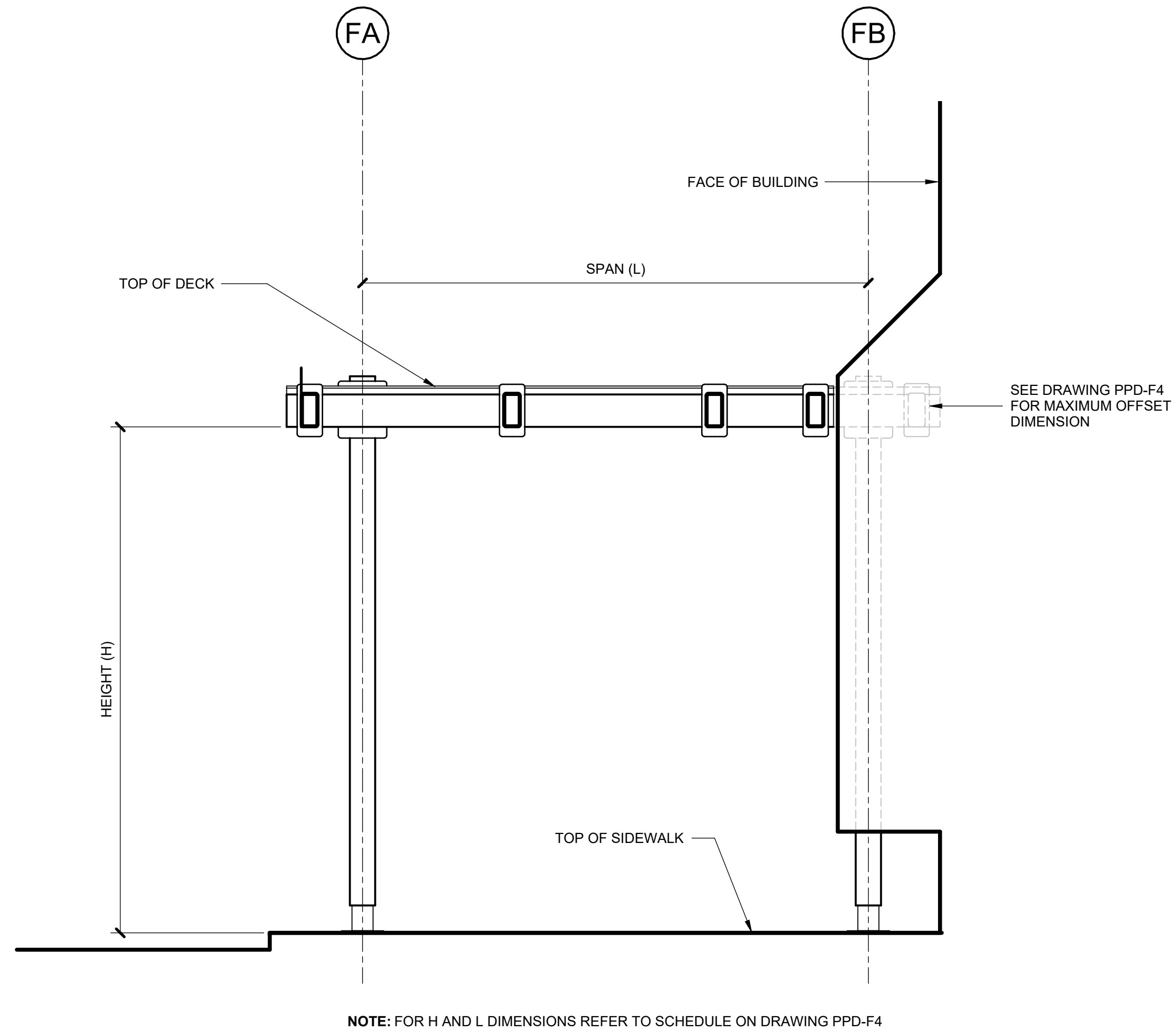
1 TYPICAL SECTION - DECK TYPE D3
1/2" = 1'-0"



2 TYPICAL SECTION - DECK TYPE D1
1/2" = 1'-0"



3 SECTION - COLUMN OFFSET
1/2" = 1'-0"



4 SECTION - BEAM OFFSET
1/2" = 1'-0"

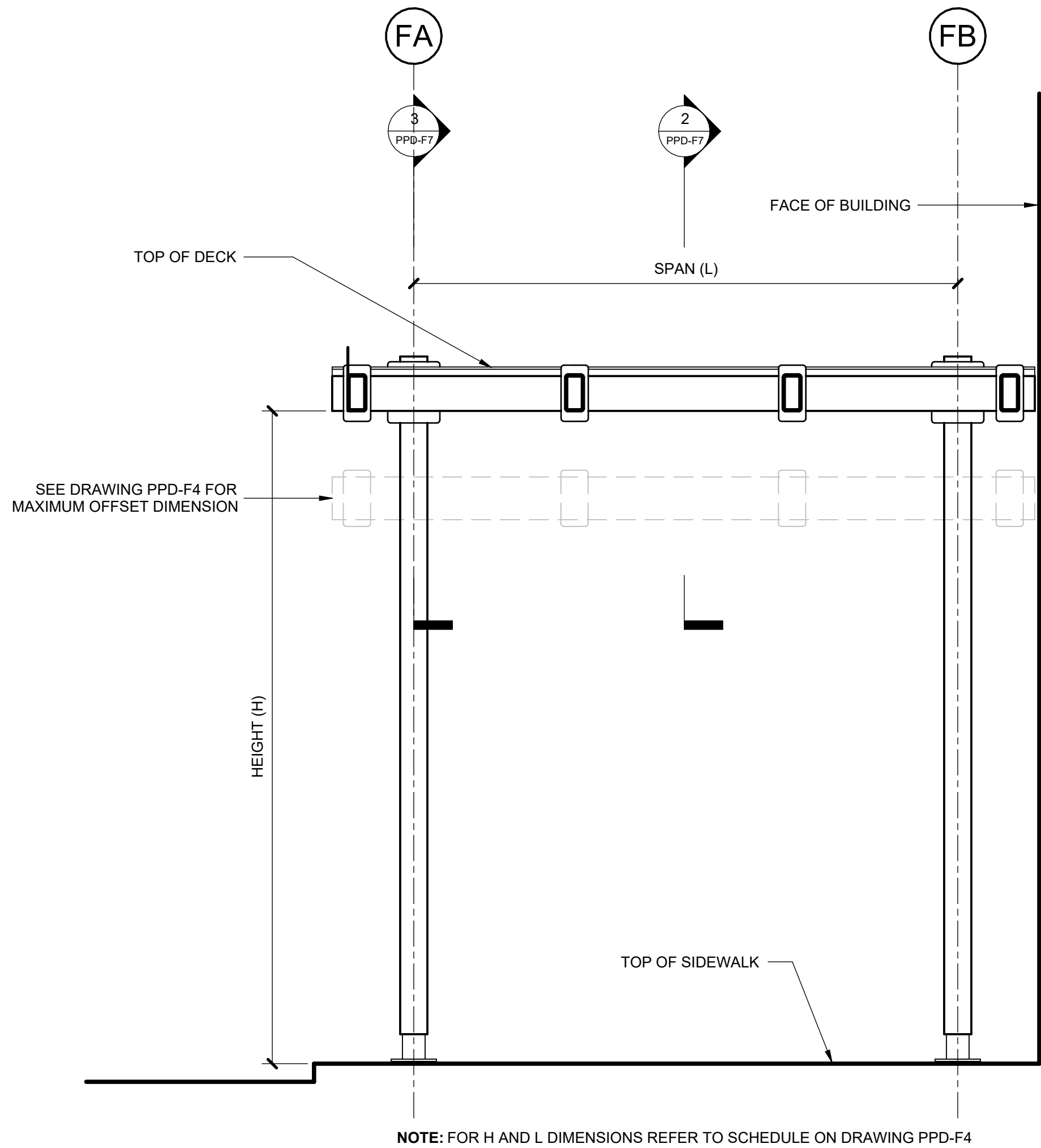
REFERENCE DESIGN ONLY. SITE SPECIFIC ENGINEERING AND COMPLIANCE WITH APPLICABLE LAWS AND RULES REQUIRED.

NOTES

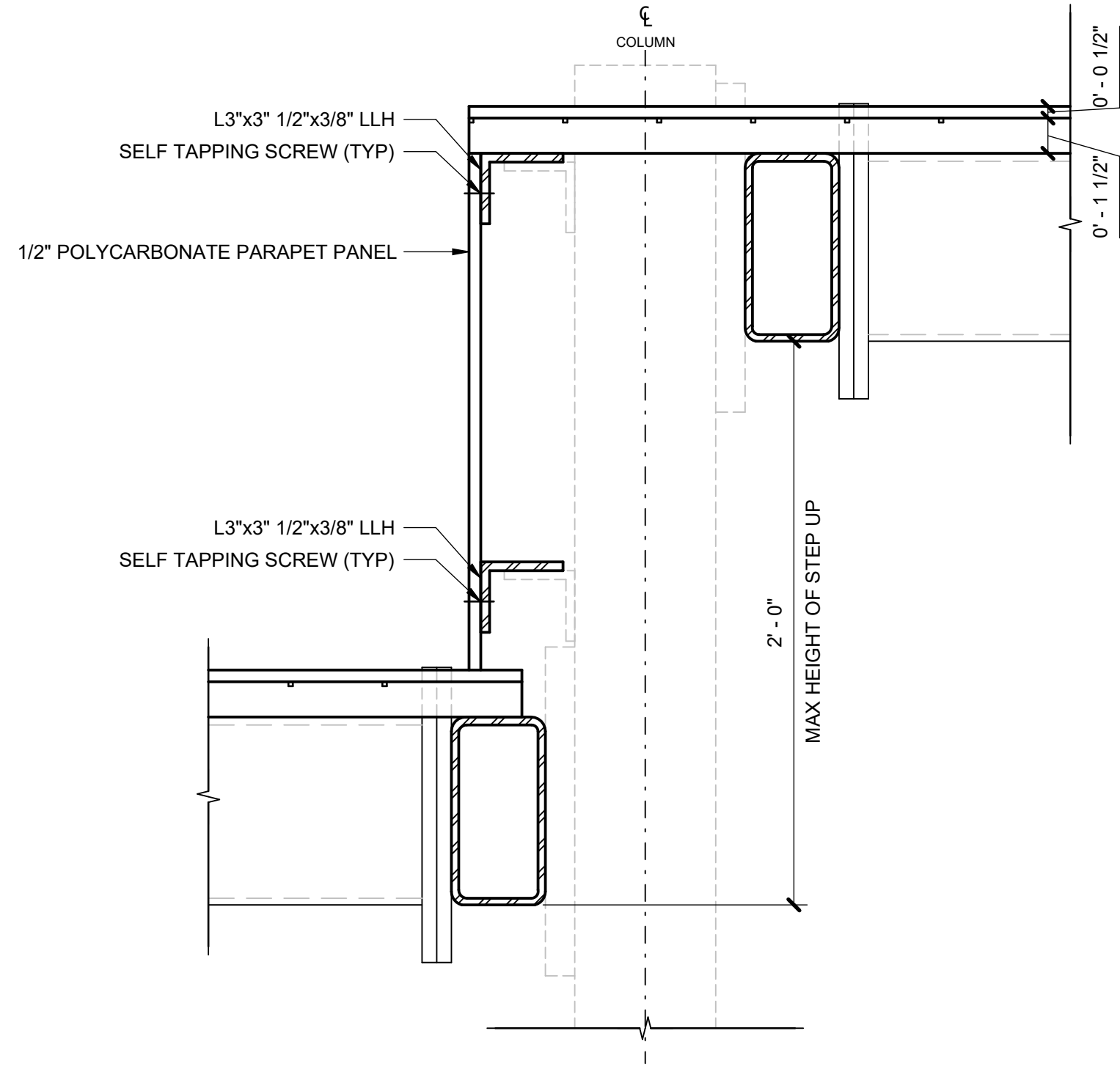
OWNER SHALL RETAIN A REGISTERED DESIGN PROFESSIONAL (ARCHITECTS AND ENGINEERS LICENSED IN THE STATE OF NEW YORK), AND CONTRACTOR WHO SHALL HAVE FULL RESPONSIBILITY FOR COMPLIANCE WITH APPLICABLE LAWS, RULES AND REQUIREMENTS PERTAINING TO THE DESIGN, SPECIFICATIONS, PERMITTING, FABRICATION, INSTALLATION, CONSTRUCTION, AND MAINTENANCE OF PEDESTRIAN PROTECTION SYSTEMS. FULL RESPONSIBILITY FOR THE INSTALLED PEDESTRIAN PROTECTION SYSTEMS SHALL REMAIN WITH THE APPLICABLE OWNER, REGISTERED DESIGN PROFESSIONAL, AND/OR CONTRACTOR.

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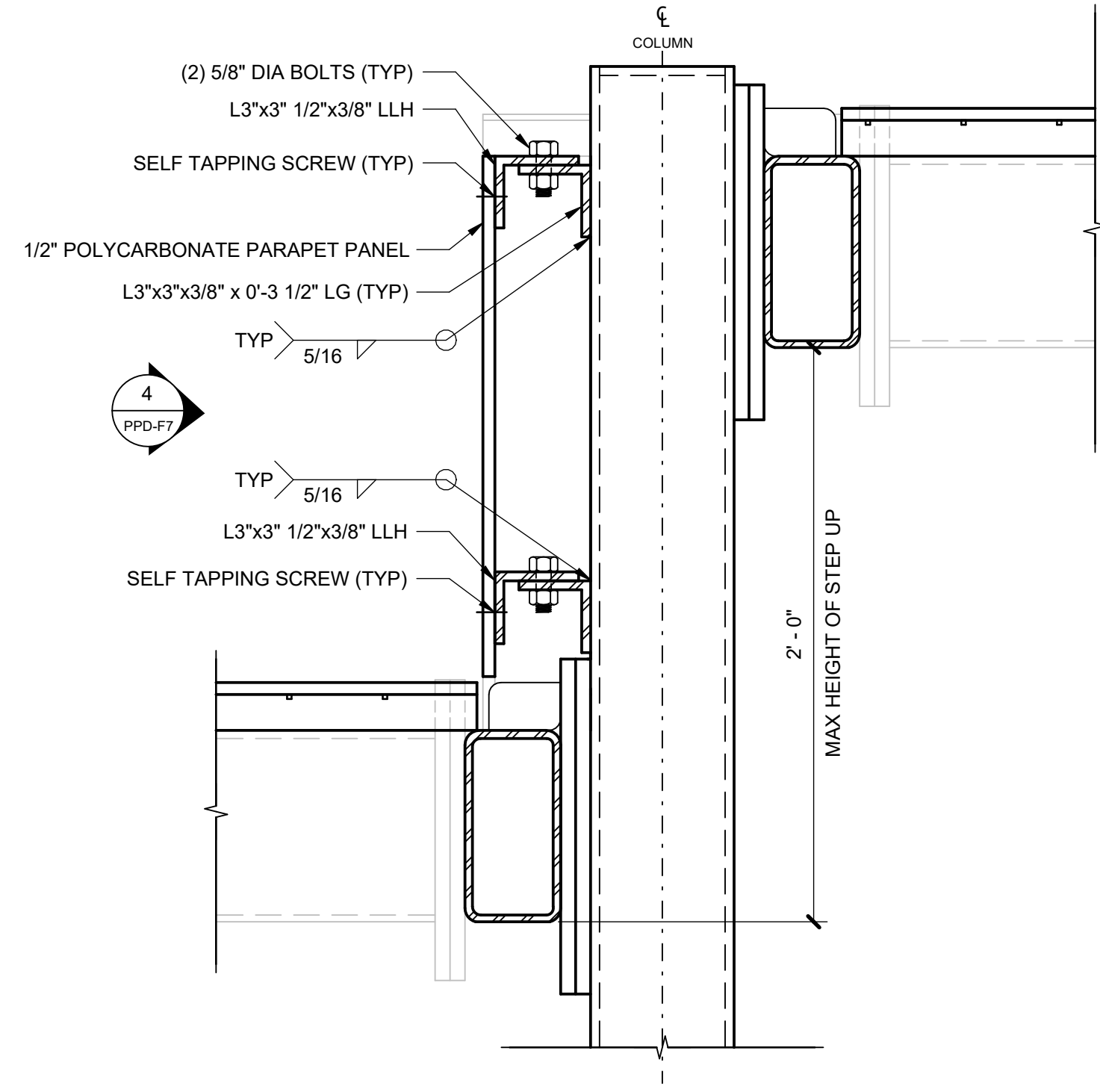
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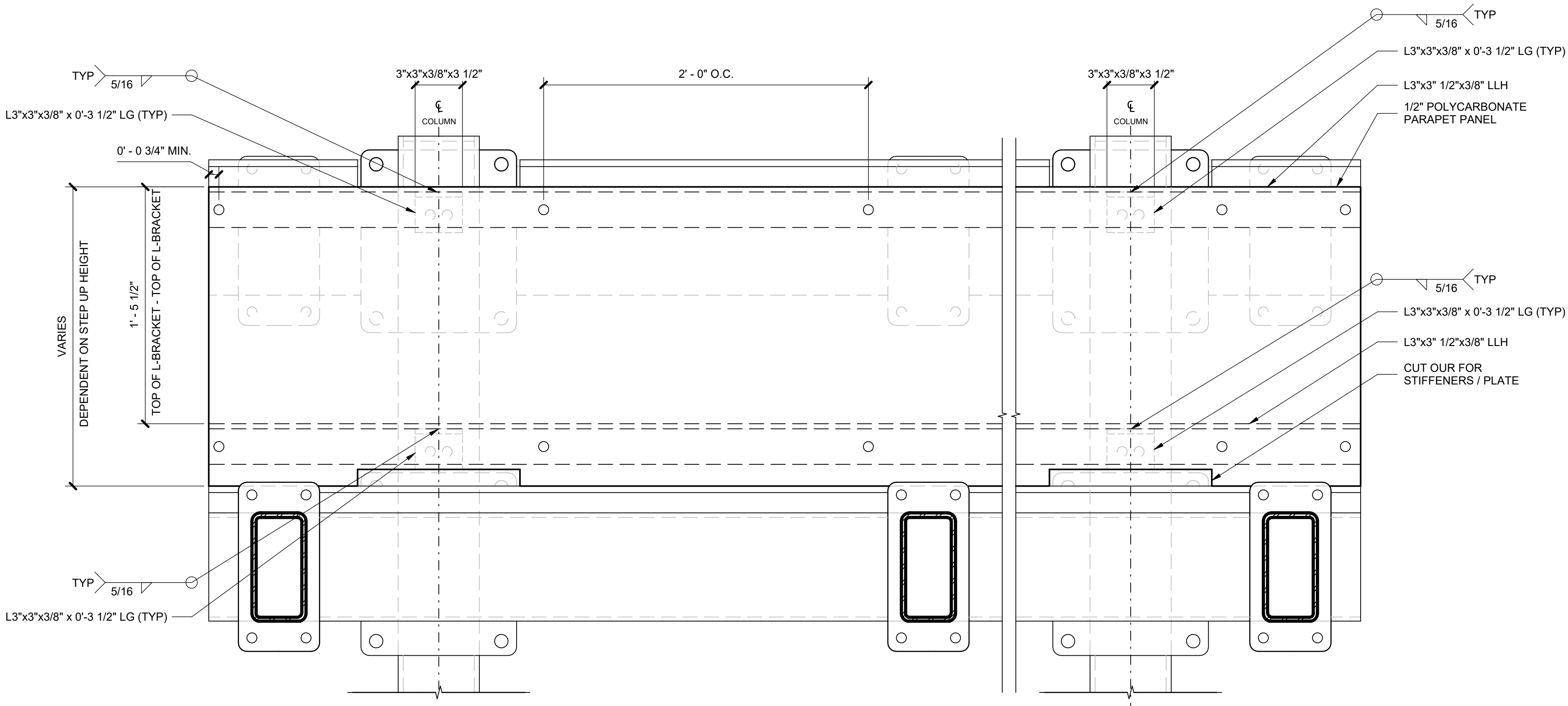
1 SECTION - STEP UP
1/2" = 1'-0"



2 DETAIL - STEP UP
2" = 1'-0"



3 DETAIL - STEP UP
2" = 1'-0"



4 DETAIL - STEP UP
2" = 1'-0"

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

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Pedestrian Protection Designs
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Drawing Title
DETAILS

Drawing Number:
PPD-F7

NOTES

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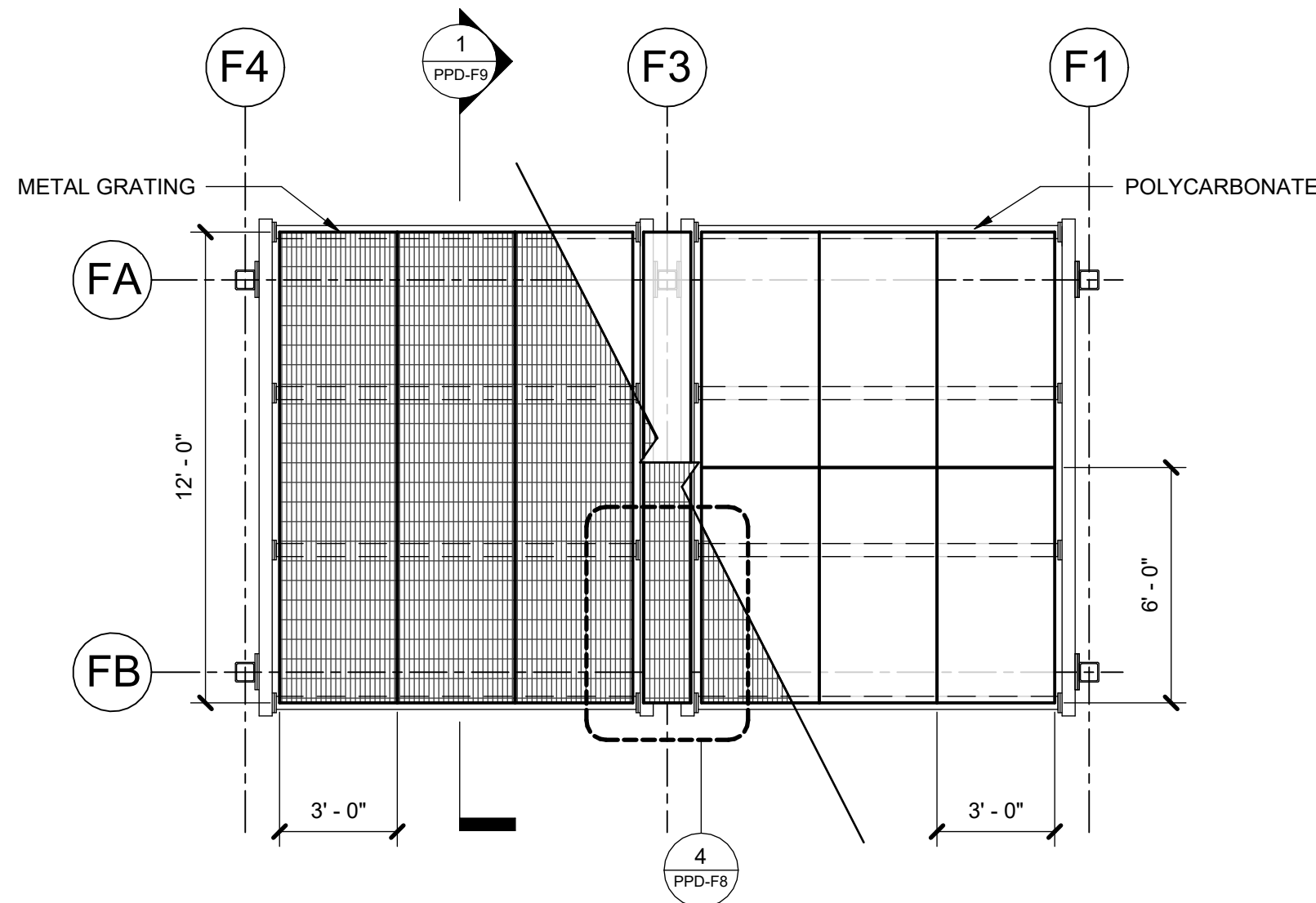
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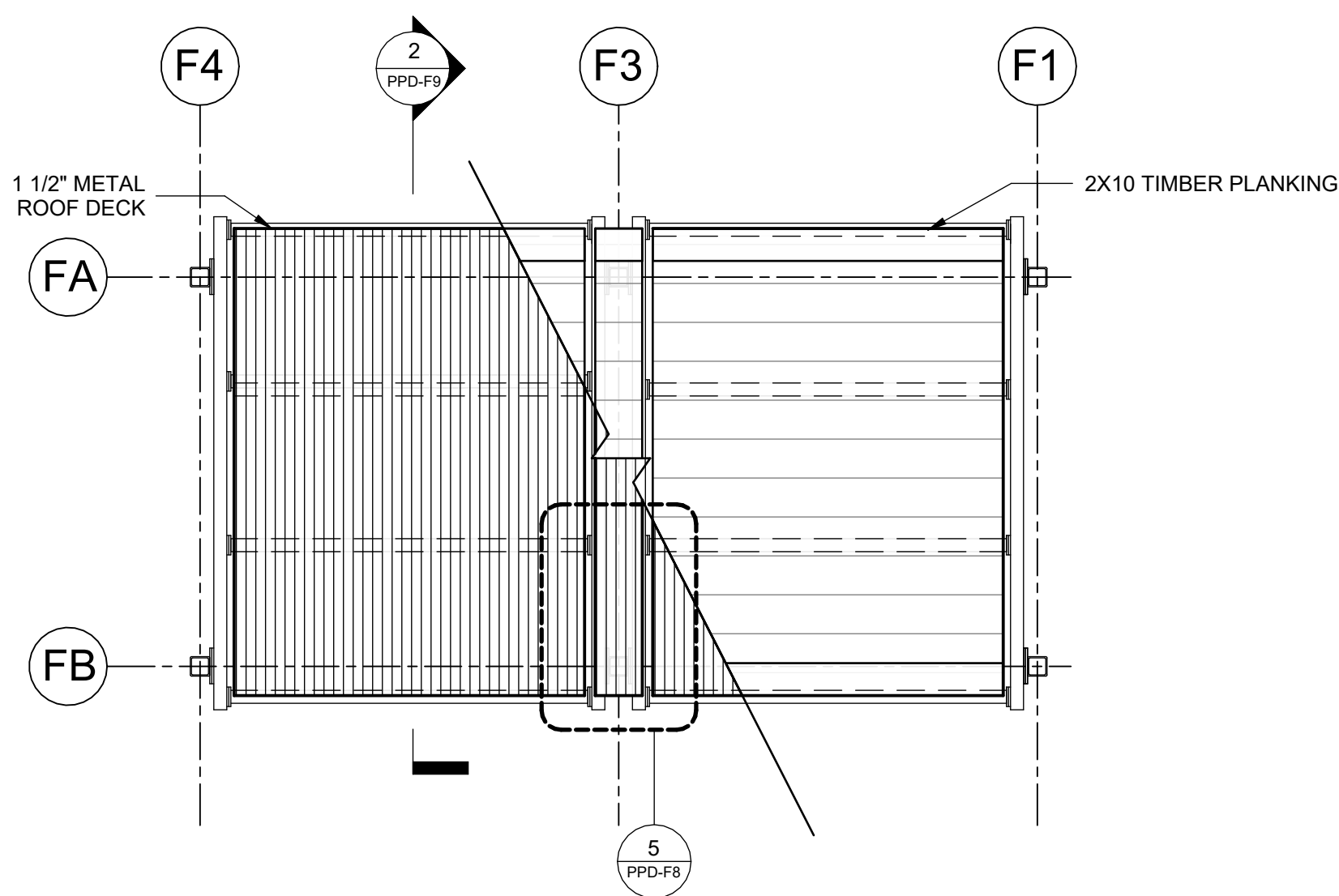
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Pedestrian Protection Designs
FLEX SHED
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Drawing Title
DETAILS

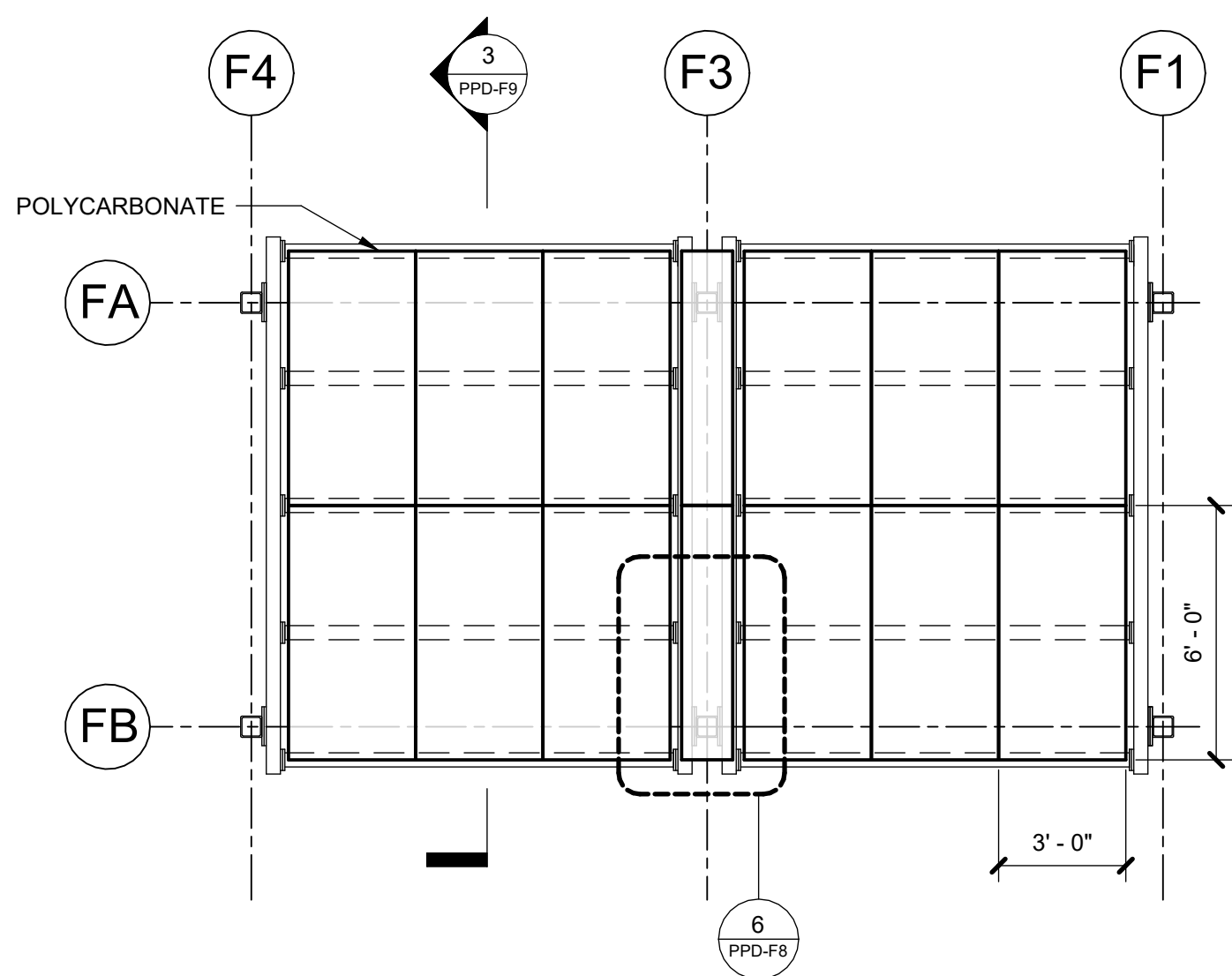
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PPD-F8



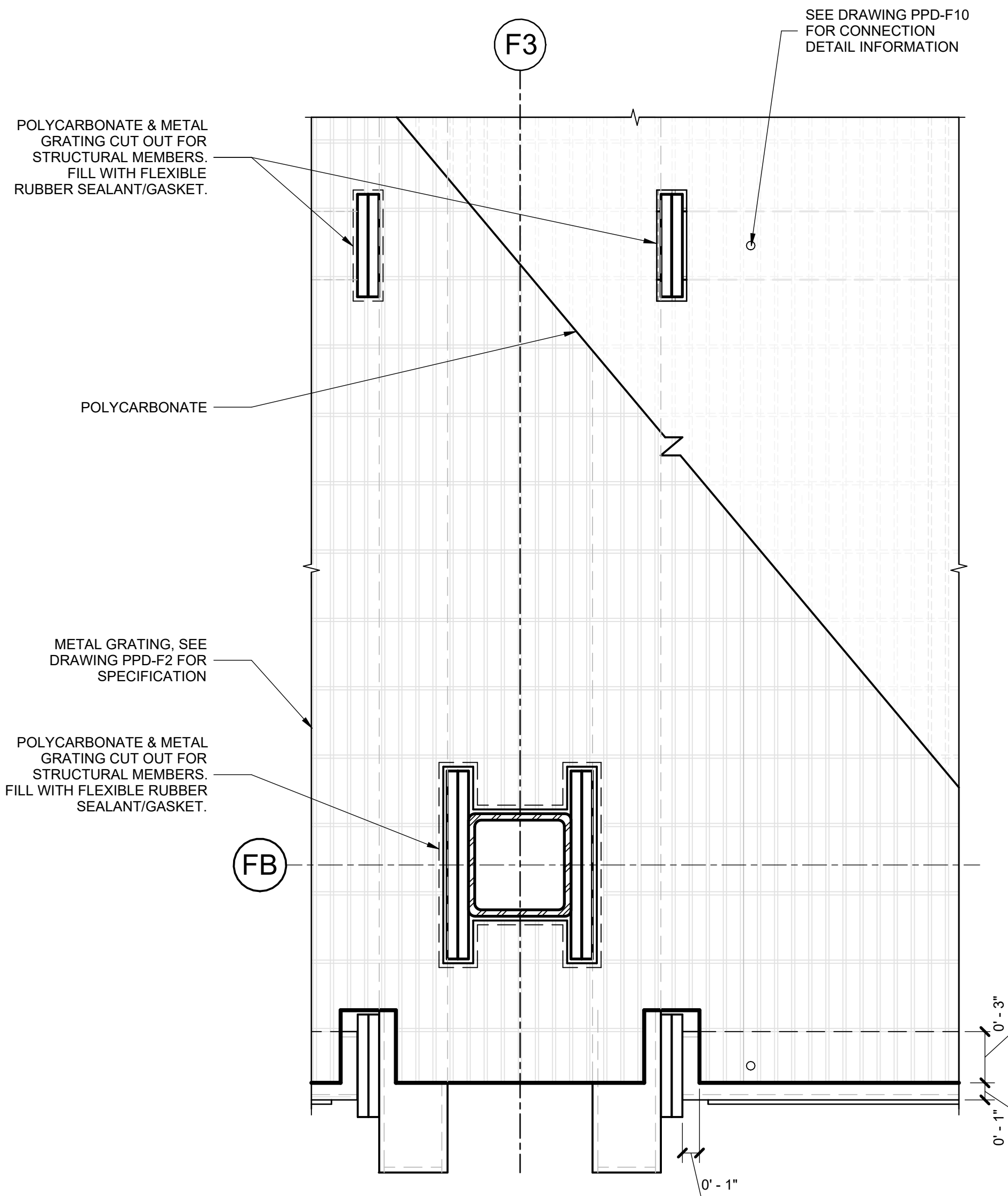
1 PART PLAN - DECK TYPE D1
1/4" = 1'-0"



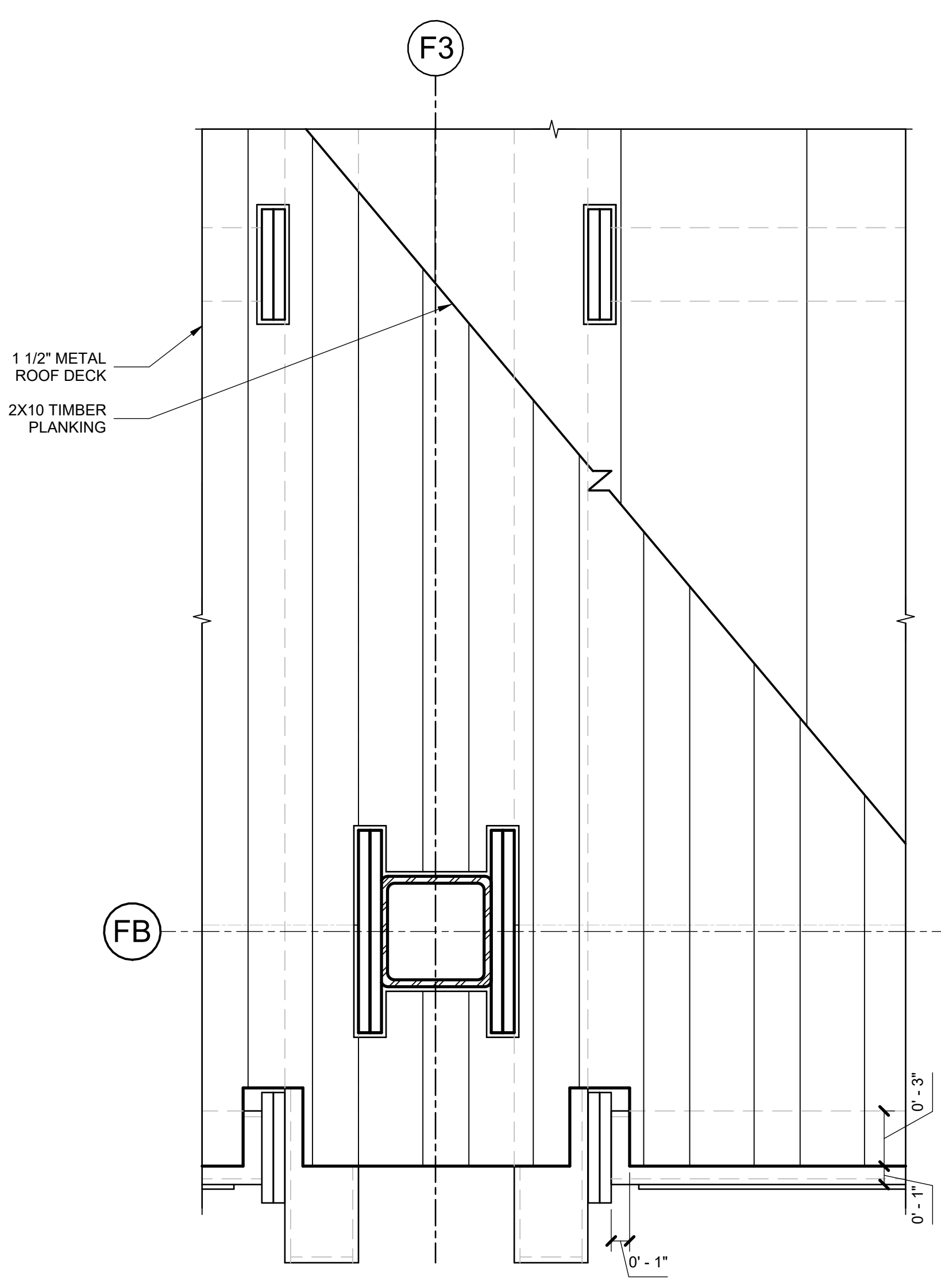
2 PART PLAN - DECK TYPE D2
1/4" = 1'-0"



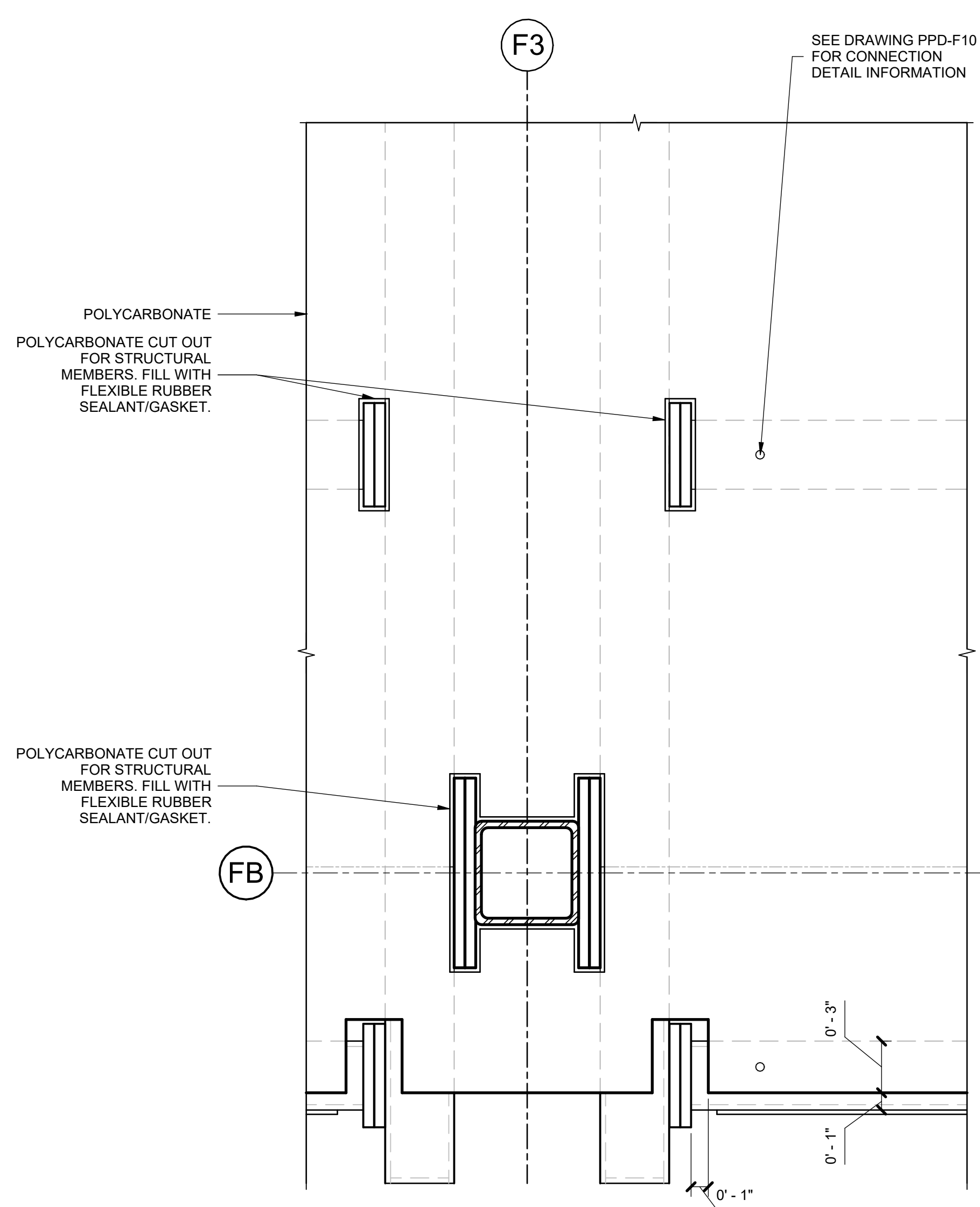
3 PART PLAN - DECK TYPE D3
1/4" = 1'-0"



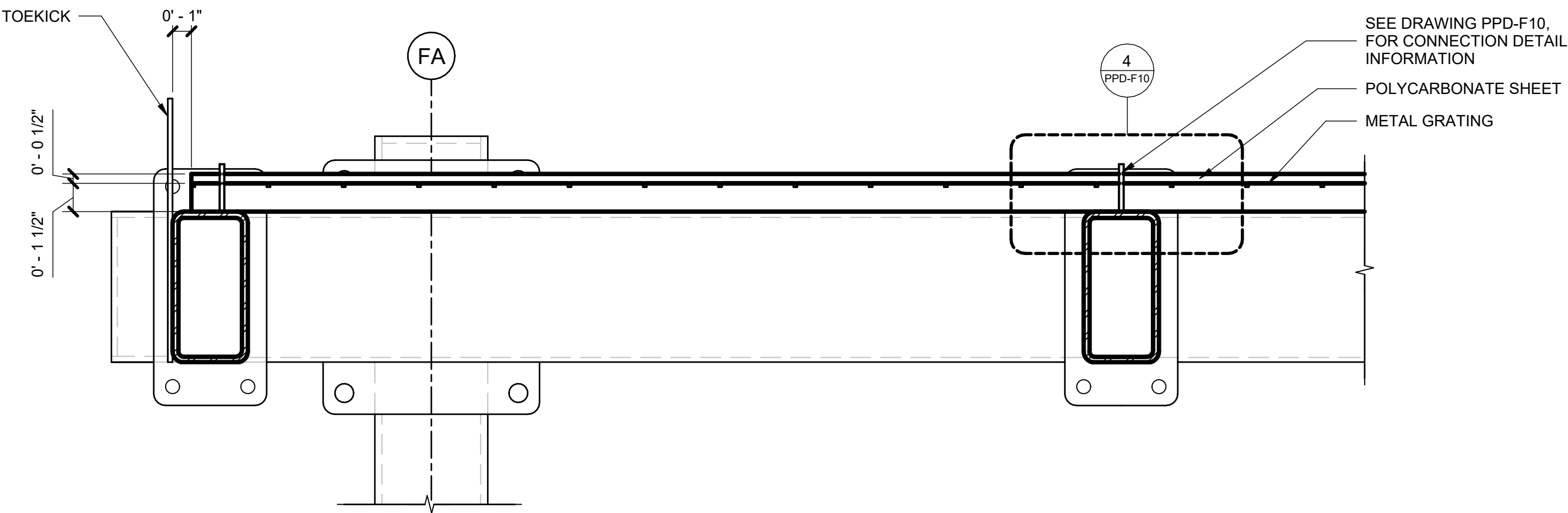
4 PLAN DETAIL - DECK TYPE D1
2" = 1'-0"



5 PLAN DETAIL - DECK TYPE D2
2" = 1'-0"

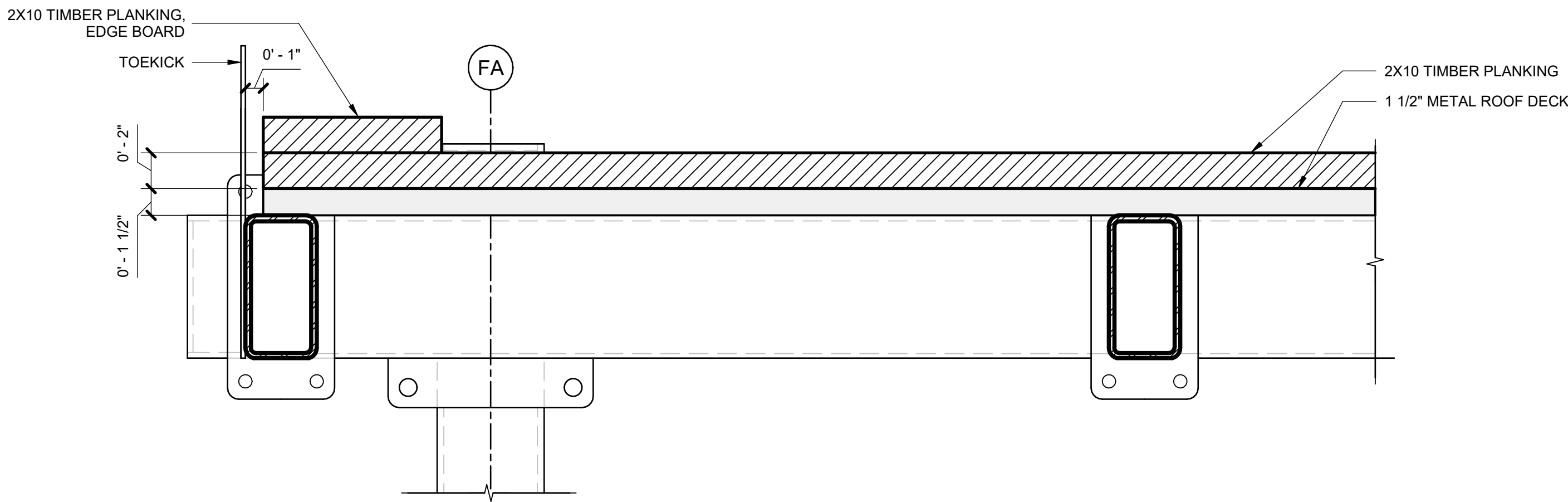


6 PLAN DETAIL - DECK TYPE D3
2" = 1'-0"
REFERENCE DESIGN ONLY. SITE SPECIFIC ENGINEERING AND COMPLIANCE WITH APPLICABLE LAWS AND RULES REQUIRED.



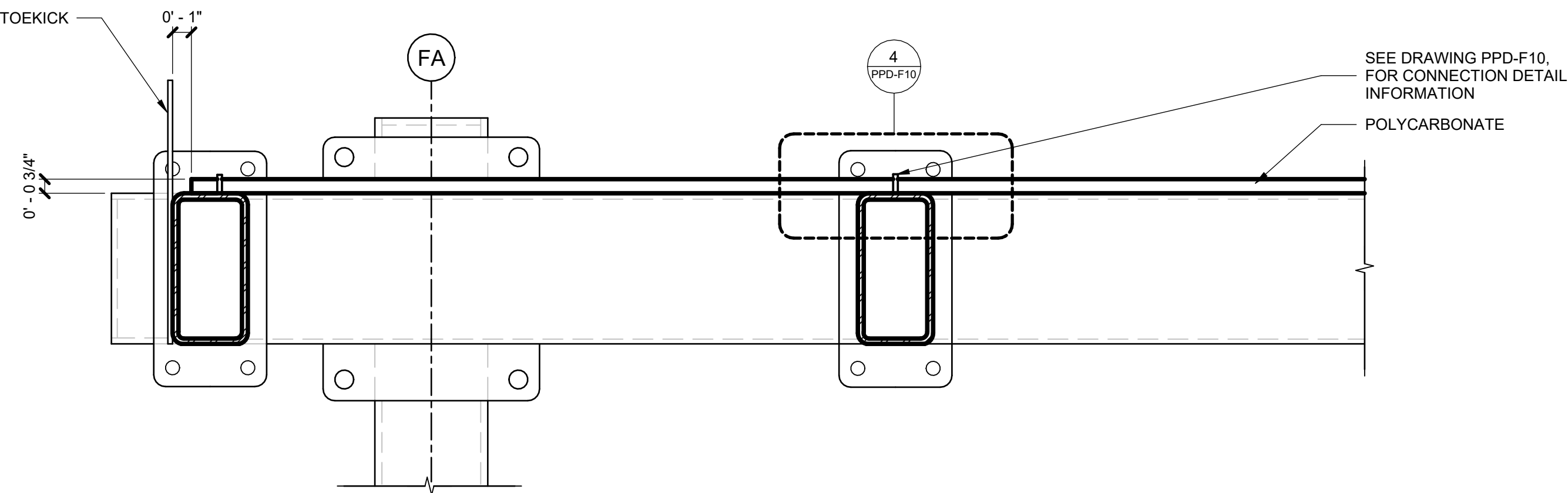
1 SECTION DETAIL - DECK TYPE D1

2" = 1'-0"



2 SECTION DETAIL - DECK TYPE D2

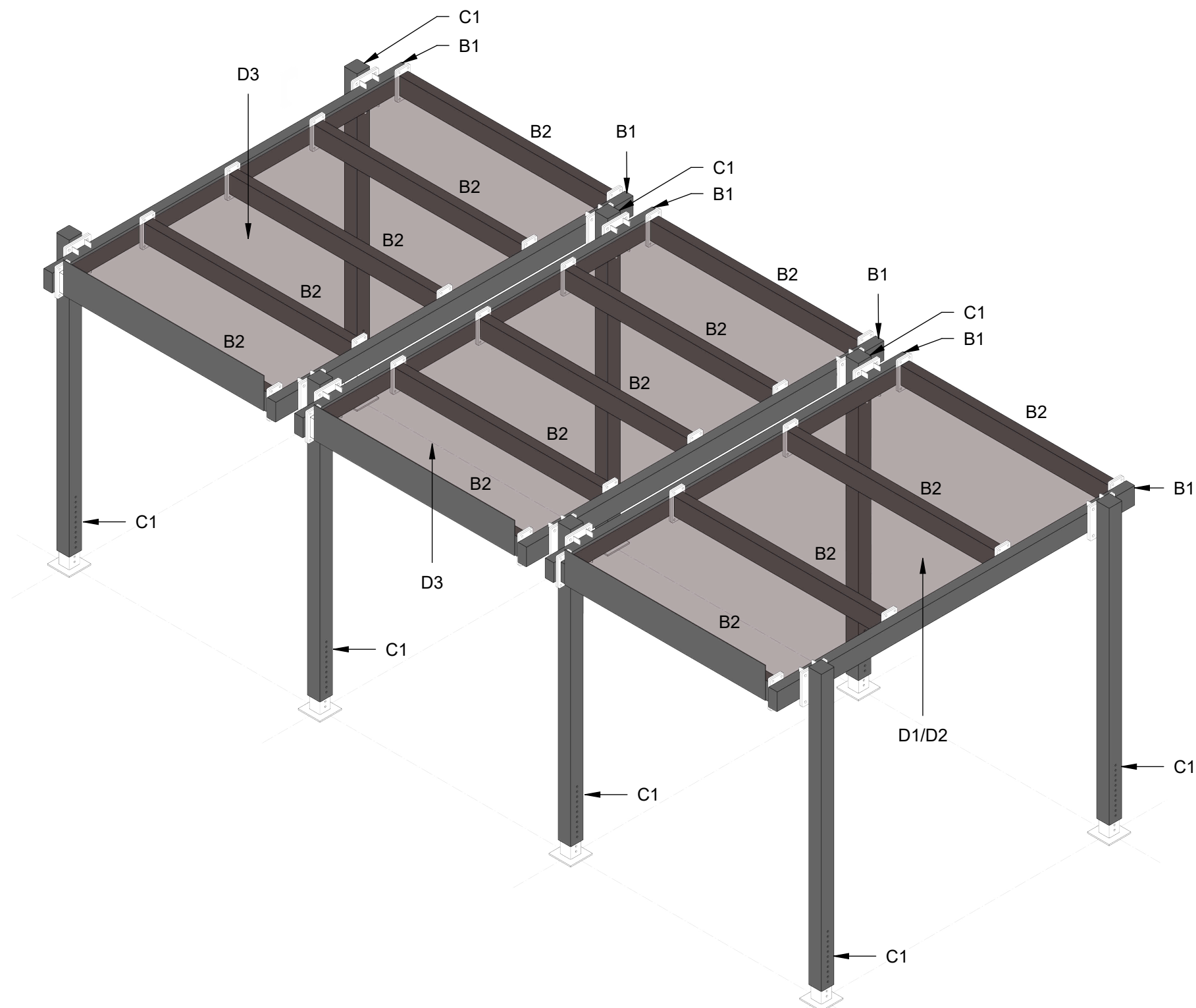
2" = 1'-0"



3 SECTION DETAIL - DECK TYPE D3

2" = 1'-0"

STRUCTURAL MEMBER FINISH SCHEDULE				
FINISH TYPE	FINISH	COLOR	STRUCTURAL MEMBER	NOTES
GALVANIZED STEEL	GALVANIZED STEEL	N/A	COLUMN (C1)	
	GALVANIZED STEEL	N/A	BEAM (B1)	
	GALVANIZED STEEL	N/A	BEAM (B2)	
CUSTOM VINYL WRAP w/ GALVANIZED STEEL	VINYL WRAP	CUSTOM	COLUMN (C1)	
	PRIMED & PAINTED	MATCH TO VINYL WRAP	BEAM (B1)	
	PRIMED & PAINTED	MATCH TO VINYL WRAP	BEAM (B2)	
PRIMED & PAINTED w/ GALVANIZED STEEL	PRIMED & PAINTED	CUSTOM - RAL COLOR	COLUMN (C1)	
	PRIMED & PAINTED	CUSTOM - RAL COLOR	BEAM (B1)	
	PRIMED & PAINTED	CUSTOM - RAL COLOR	BEAM (B2)	
PRIMED & PAINTED w/ UNTREATED STEEL	PRIMED & PAINTED	CUSTOM - RAL COLOR	COLUMN (C1)	
	PRIMED & PAINTED	CUSTOM - RAL COLOR	BEAM (B1)	
	PRIMED & PAINTED	CUSTOM - RAL COLOR	BEAM (B2)	
POWDERCOATED w/ UNTREATED STEEL	POWDERCOATED STEEL	CUSTOM - RAL COLOR	COLUMN (C1)	
	POWDERCOATED STEEL	CUSTOM - RAL COLOR	BEAM (B1)	
	POWDERCOATED STEEL	CUSTOM - RAL COLOR	BEAM (B2)	
DECK TYPES: MATERIAL & FINISH SCHEDULE				
DECKING MATERIAL	FINISH	COLOR	NOTES	
DECK TYPE D1	1/2" POLYCARBONATE	CLEAR, BLUE	- CO-EXTRUDED OR COATED UV PROTECTION ON ONE SIDE FOR EXTERIOR APPLICATIONS - SEAMS TO OCCUR ON CENTERLINES OF BEAMS - ALIGN SEAMS OF POLYCARBONATE FOR APPLICATION OF TAPE (SEE ADD. NOTES FOR SPEC).	
	METAL GRATING	N/A	- SEE PPD-F2 FOR SPECIFICATION - PRIMED & PAINTED TO MATCH	
DECK TYPE D2	2X10 TIMBER PLANKING	N/A	"OSHA BOARD", PERPENDICULAR TO B-DECK	
	1 1/2" METAL ROOF DECK	CUSTOM - RAL COLOR	- PRIMED & PAINTED TO MATCH - PERPENDICULAR TO B2 - EDGES TO OVERLAP 2" MINIMUM	
DECK TYPE D3	3/4" POLYCARBONATE	CLEAR, BLUE	- CO-EXTRUDED OR COATED UV PROTECTION ON BOTH SIDES FOR EXTERIOR APPLICATIONS - SEAMS TO OCCUR ON CENTERLINES OF BEAMS - ALIGN SEAMS OF POLYCARBONATE FOR APPLICATION OF TAPE (SEE ADD. NOTES FOR SPEC).	
ADDITIONAL NOTES: - TAPE SPECIFICATION: 2" CLEAR WEATHERPROOF AND UV RESISTANT TAPE - SIGNAGE SPECIFICATION: VINYL LETTERING PRE-SPACED AND PRE-MASKED WITH TRANSFER TAPE - COLOR MATCHED TO SIDEWALK SHED AND SIZED PER DOB CH. 33 REQUIREMENTS FOR SIGNAGE ON SIDEWALK SHED				



4 AXONOMETRIC

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Drawing Title
DETAILS, MATERIAL AND FINISH SCHEDULES

Drawing Number:

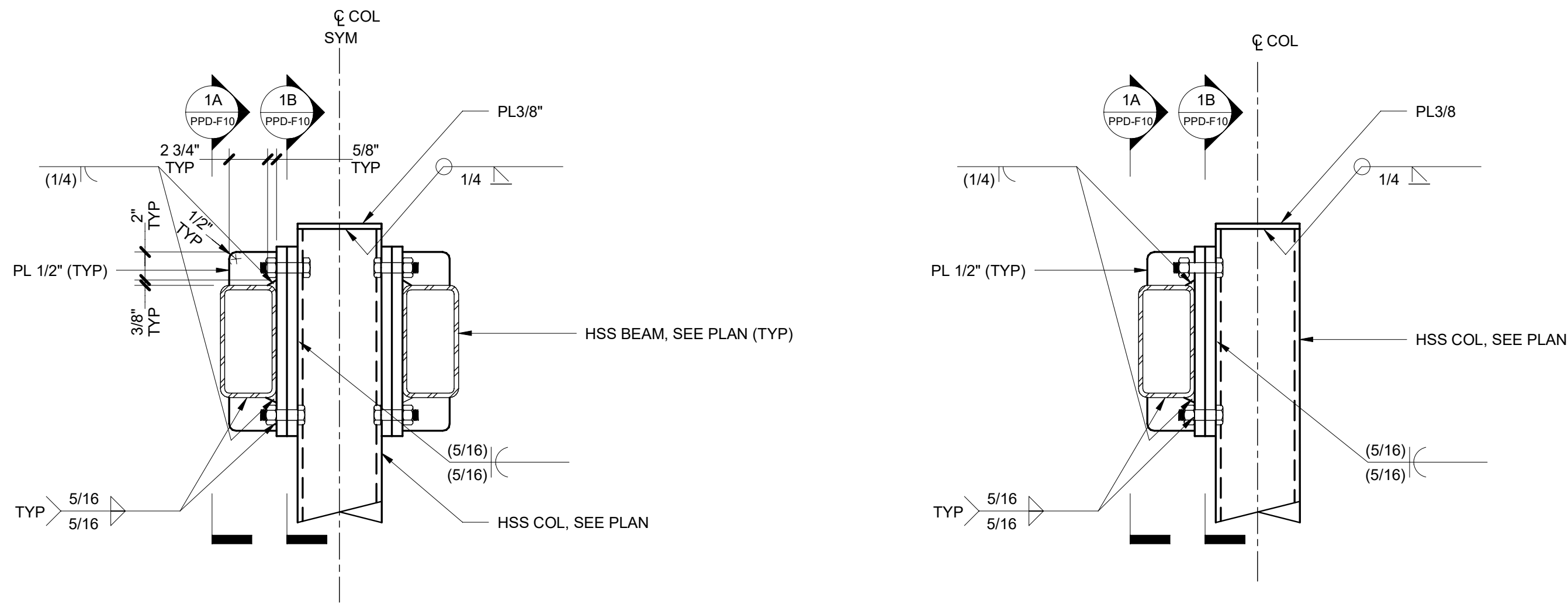
PPD-F9

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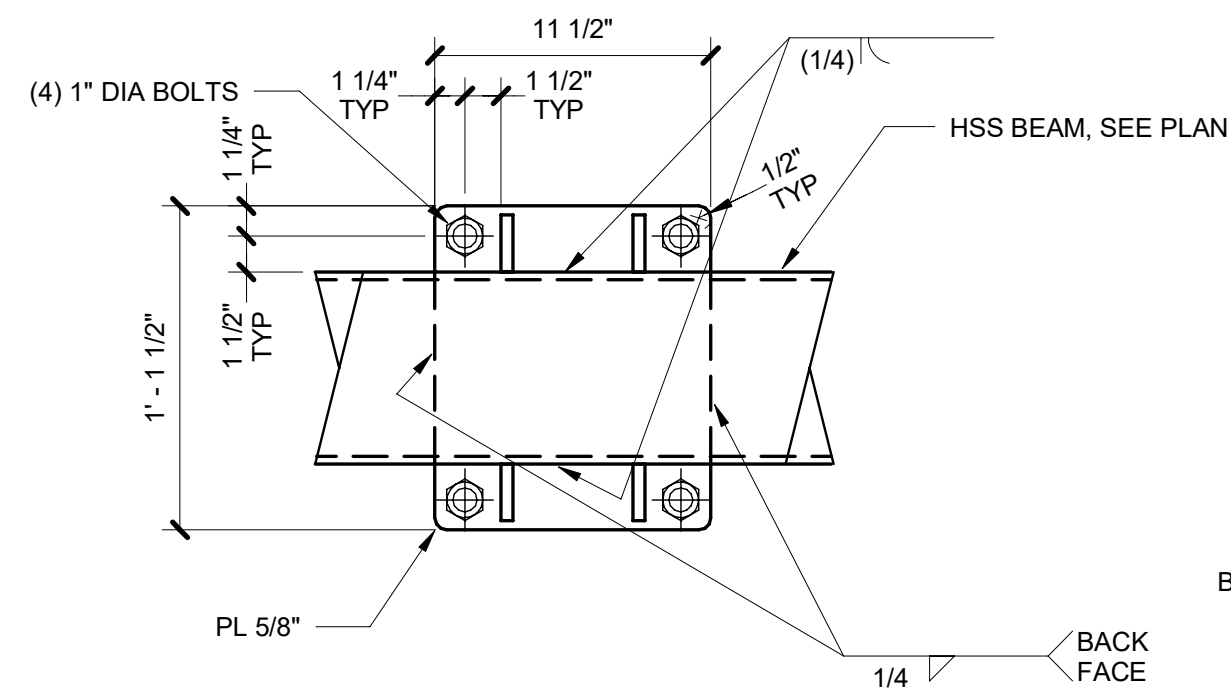
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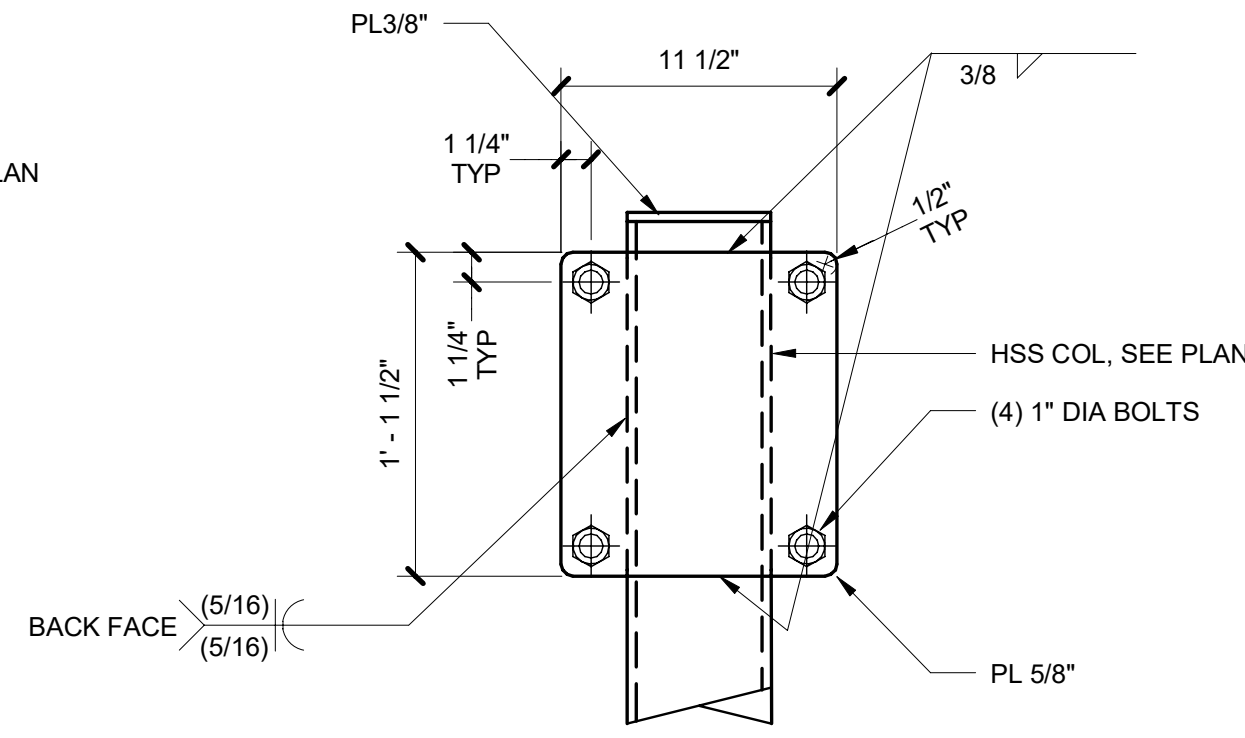


TWO-SIDED BEAM-TO-COLUMN CONN

ONE-SIDED BEAM-TO-COLUMN CONN



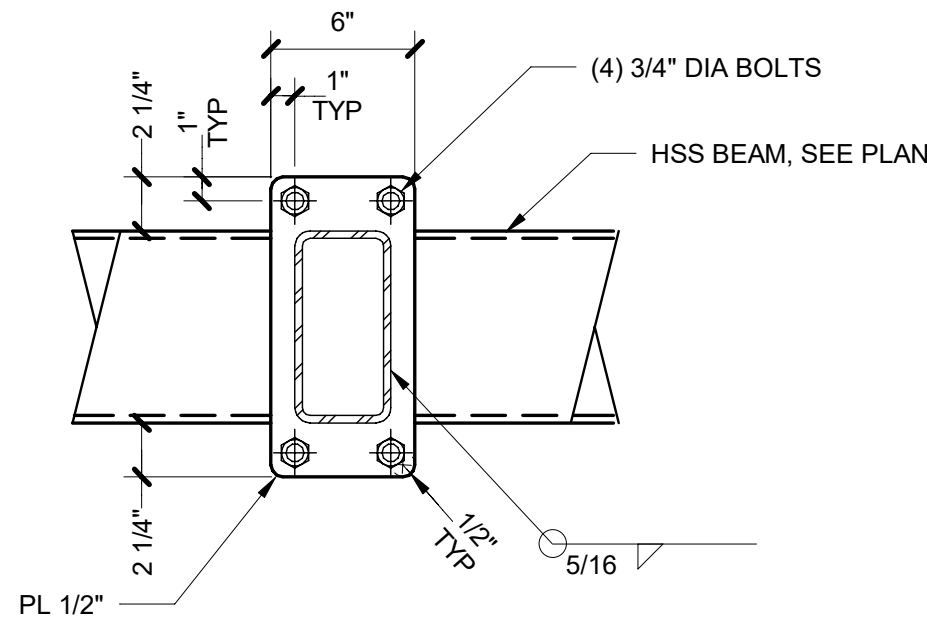
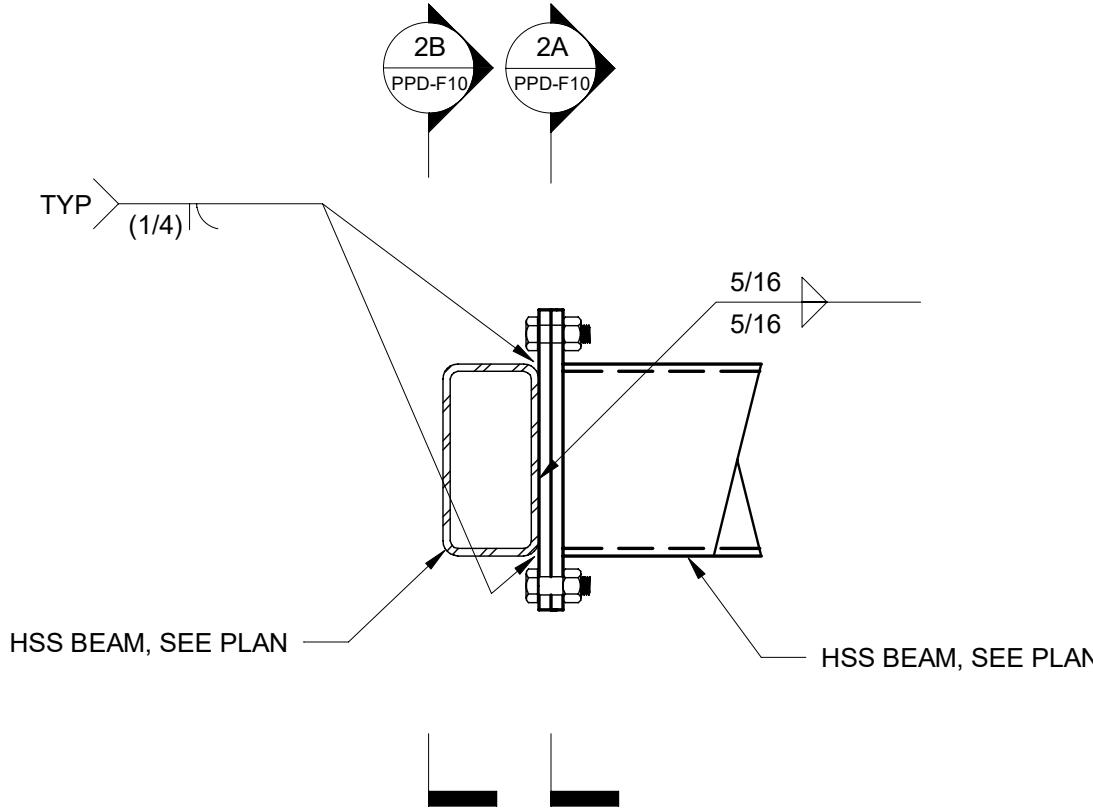
SECTION - 1A



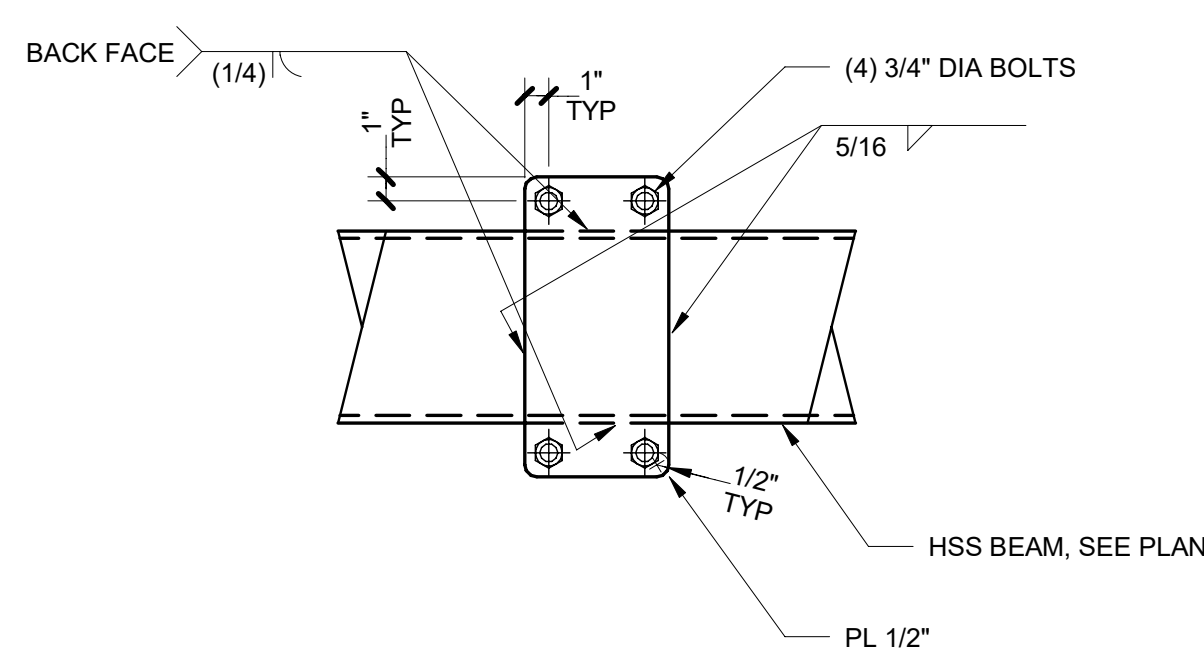
SECTION - 1B

NOTE:
BEAM-TO-COLUMN CONNECTIONS SHALL PROVIDE MOMENT AND TORSIONAL RESTRAINT FOR SYSTEM STABILITY AND DESIGN LOAD RESISTANCE.

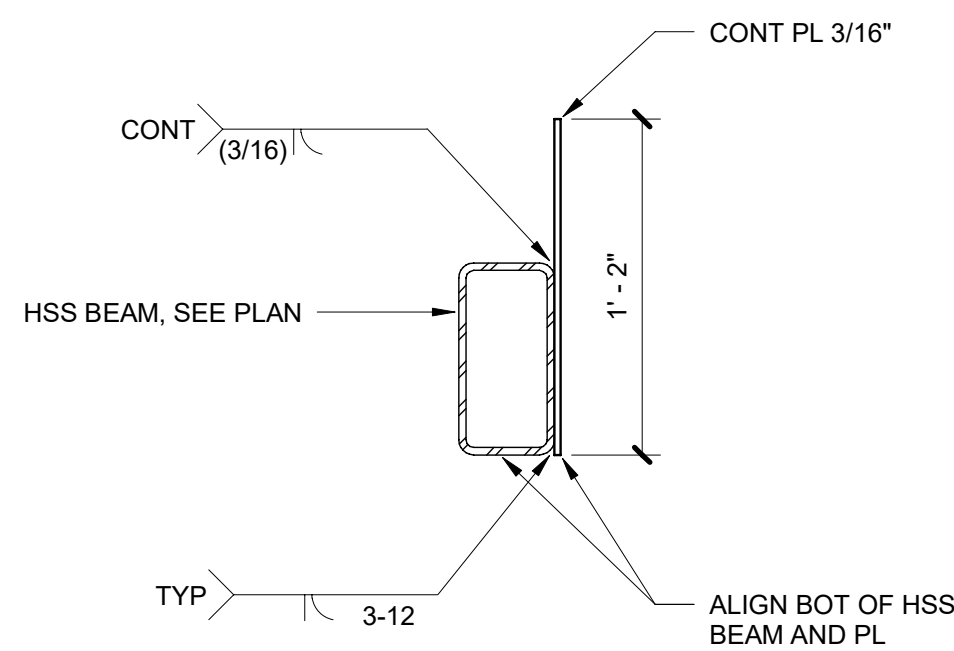
1 BEAM-TO-COLUMN END PLATE MOMENT CONNECTION DETAIL
1 1/2" = 1'-0"



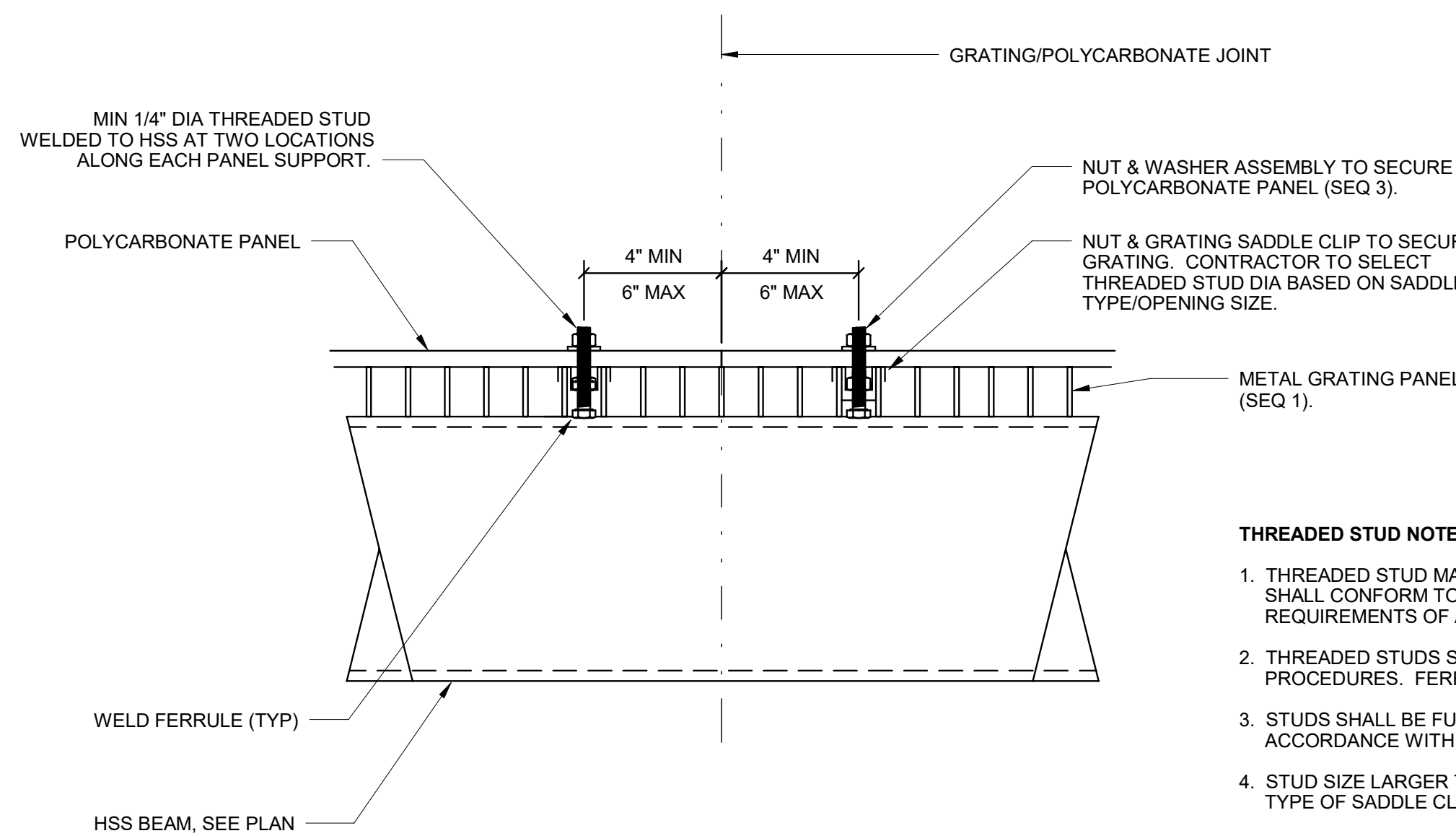
SECTION - 2A



SECTION - 2B



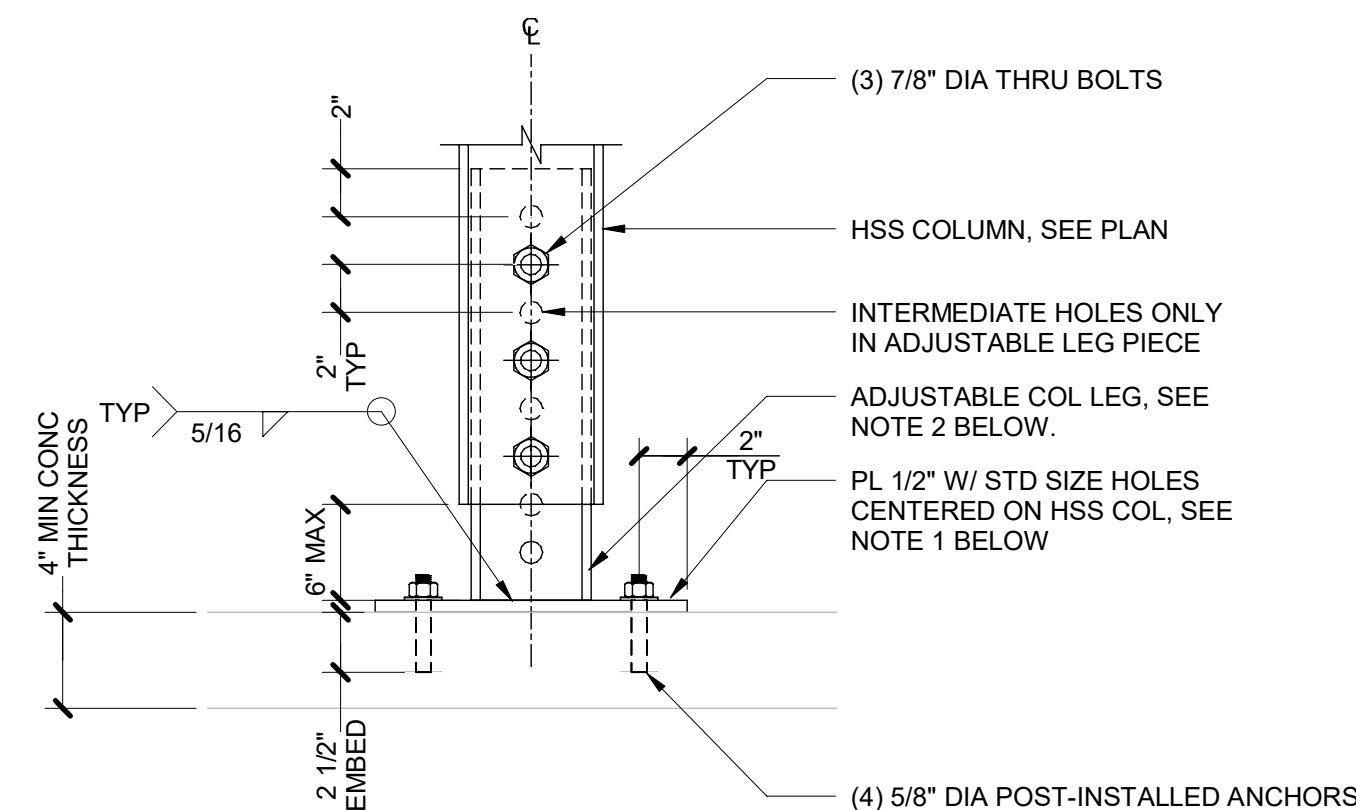
2 BEAM-TO-BEAM END PLATE MOMENT CONNECTION DETAIL
1 1/2" = 1'-0"



THREADED STUD NOTES:

1. THREADED STUD MATERIAL SHALL BE ASTM A29/A108 GRADES 1010-1020 AND SHALL CONFORM TO THE MINIMUM MECHANICAL PROPERTY AND DUCTILITY REQUIREMENTS OF AWS D1.1 FOR TYPE 'A' STANDARD MILD STEEL STUDS.
2. THREADED STUDS SHALL BE WELDED TO HSS USING STANDARD STUD WELDING PROCEDURES. FERRULES FOR WELDING ARE PROVIDED BY STUD SUPPLIER.
3. STUDS SHALL BE FULLY THREADED ALONG ENTIRE LENGTH AND PLATED IN ACCORDANCE WITH ASTM A165 AND MANUFACTURER WELDING REQUIREMENTS.
4. STUD SIZE LARGER THAN 1/4" MAY BE USED AS LONG AS IT IS COMPATIBLE WITH TYPE OF SADDLE CLAMP USED.

4 REPRESENTATIVE DECK TYPE D3 CONNECTION DETAIL
NTS



NOTES:

1. BASE PL DIMENSIONS SHALL BE AS FOLLOWS:
A. HSS6x6 COLUMN: 13" x 13"
2. ADJUSTABLE COLUMN LEG SIZES SHALL BE AS FOLLOWS:
B. HSS6x6 COLUMN: HSS5x5x3/8
3. BASE PLATE AND ANCHOR DESIGN REQUIRES MINIMUM SIDEWALK CONCRETE COMPRESSIVE STRENGTH $f_c \approx 3000$ PSI. BASE PLATE SHALL NOT BEAR ON SIDEWALK VAULT GRATING OR OTHER NON-CONCRETE SIDEWALK SURFACES.
4. FULL BEARING BENEATH AREA OF BASE PLATE SHALL BE VERIFIED BY THE ENGINEER OF RECORD.
5. ANCHORAGE INTO SOUND CONCRETE SUBSTRATE SHALL BE VERIFIED BY THE ENGINEER OF RECORD. FINAL ANCHORAGE DESIGN BY THE ENGINEER OF RECORD.

5 TYPICAL BASE PLATE AND ANCHORAGE DETAIL
1 1/2" = 1'-0"

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

Project
Pedestrian Protection Designs
FLEX SHED

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Drawing Title
DETAILS

Drawing Number:

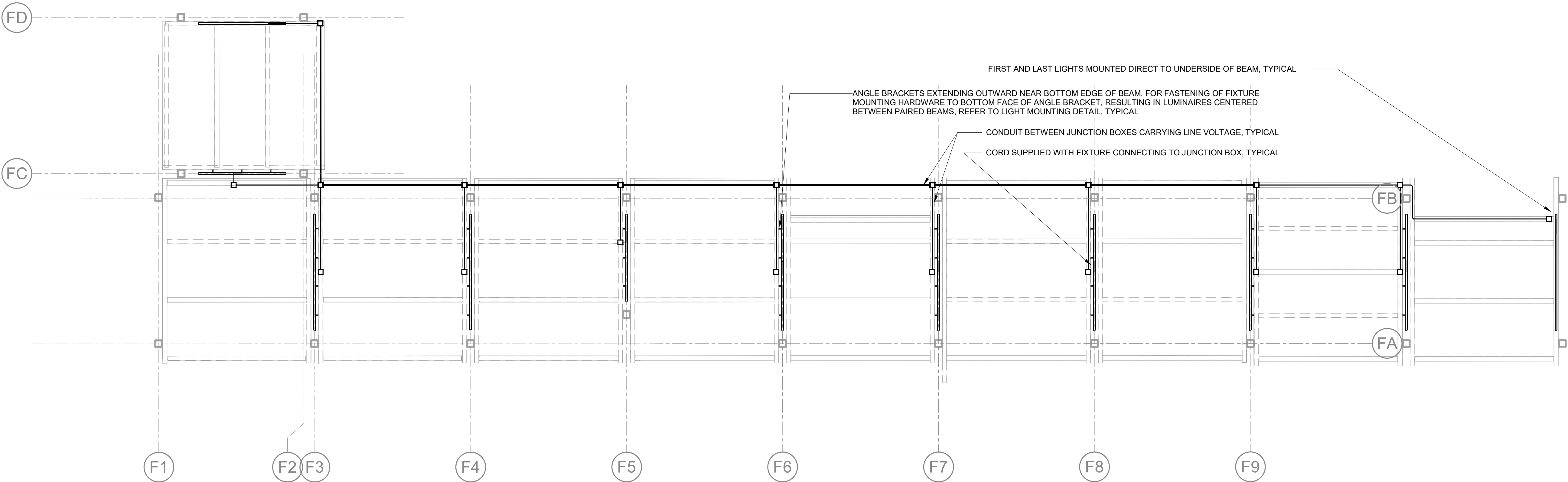
PPD-F10

NOTES

OWNER SHALL RETAIN A REGISTERED DESIGN PROFESSIONAL (ARCHITECTS AND ENGINEERS LICENSED IN THE STATE OF NEW YORK), AND CONTRACTOR WHO SHALL HAVE FULL RESPONSIBILITY FOR COMPLIANCE WITH APPLICABLE LAWS, RULES AND REQUIREMENTS PERTAINING TO THE DESIGN, SPECIFICATIONS, PERMITTING, FABRICATION, INSTALLATION, CONSTRUCTION, AND MAINTENANCE OF PEDESTRIAN PROTECTION SYSTEMS. FULL RESPONSIBILITY FOR THE INSTALLED PEDESTRIAN PROTECTION SYSTEMS SHALL REMAIN WITH THE APPLICABLE OWNER, REGISTERED DESIGN PROFESSIONAL, AND/OR CONTRACTOR.

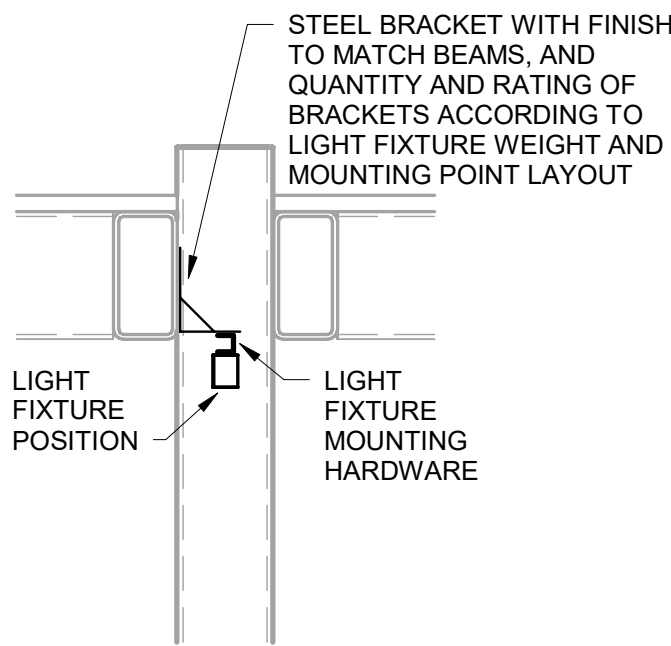
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1 LIGHTING PLAN

1/4" = 1'-0"



2 TYPICAL LIGHT MOUNTING

1" = 1'-0"

LIGHTING FIXTURE SCHEDULE				
MAX. WATTAGE (W / FT)	MIN. DELIVERED LUMENS (LUMENS / FT)	COLOR RENDERING INDEX	CORRELATED COLOR TEMPERATURE	NOTES
5 W	350 TO 500	80+	3000K	1. ROUNDED FULLY FROSTED OR TRANSLUCENT LENS OF MINIMUM 180 DEGREES HALF-CIRCLE ARC IN PROFILE, WITH AT LEAST 70% OF LUMENS DIRECTED DOWNWARD TOWARD GROUND AND AT LEAST 10% OF LUMENS EMITTED UPWARD TOWARD DECKING. 2. UV STABILIZED POLYCARBONATE LENS AND/OR IK07 OR GREATER IMPACT RATING. 3. WET RATING OR IP65 MINIMUM. 4. 50,000 HOUR MINIMUM LIFETIME ACCORDING TO IES TM-21 L70. 5. ALUMINUM HOUSING. 6. MAXIMUM 15FT SPACING BETWEEN LIGHTS IN ANY DIRECTION. 7. LUMINAIRE PROFILE NOT TO EXCEED 3" TALL AND 3" WIDE. 8. MOUNTING POSITION OF BRACKETS FROM ADJACENT STRUCTURE SHALL POSITION BOTTOM OF LENS AT LEAST 3" BELOW BOTTOM OF ADJACENT BEAMS. 9. CONSISTENT LUMINAIRE LENGTH SHALL BE USED ACCORDING TO THE MAXIMUM CLEARANCE AVAILABLE BETWEEN COLUMNS THROUGHOUT EACH PORTION OF EACH SIDEWALK. SHORTER LENGTHS MAY BE USED WHERE COLUMN LAYOUTS ARE ADJUSTED AROUND OBSTRUCTIONS. 10. CABLE CONNECTION TO LUMINAIRES SHALL BE MINIMUM LENGTH REQUIRED FOR FINAL CONNECTIONS FROM NEAREST JUNCTION BOX, NOT TO EXCEED 6FT WHERE REQUIRED, AND CABLES SHALL BE TIGHTLY SECURED IN STRAIGHT LINES ALONG UPPER PORTION OF BEAMS, SHALL NOT RUN ALONG BOTTOM SURFACE OF BEAMS, AND ANY SPARE SLACK SHALL BE COILED AND SECURED AT THE NEAREST JUNCTION BOX. CABLES SHALL UTILIZE LUMINAIRE MANUFACTURER'S FACTORY-FABRICATED WET RATED CONNECTION HARDWARE WITH SECURE THREADED CONNECTIONS TO LUMINAIRES. 11. PROVIDE LUMINAIRE WITH INTEGRAL DRIVER. IF PORTION OF LUMINAIRE HOUSING THE DRIVER PROTRUDES FROM THE LUMINAIRE, THE ENCLOSING COMPONENTS SHALL BE A COLOR AND FINISH MATCHING THE REMAINDER OF THE LUMINAIRE, AND SHALL NOT INTERFERE WITH MOUNTING ACCORDING TO ALL OTHER MOUNTING REQUIREMENT NOTES. IF REMOTE DRIVERS ARE USED THEY SHALL BE MOUNTED TO THE BUILDING SIDE OF THE BEAMS TO MINIMIZE PEDESTRIAN VIEW OF DRIVERS WHILE LIMTED TO THE MAXIMUM CABLE LENGTH AS NOTED, OR INSTALLED IN PAINTABLE ENCLOSURES PAINTED TO MATCH THE SURFACE THEY ARE MOUNTED ON.