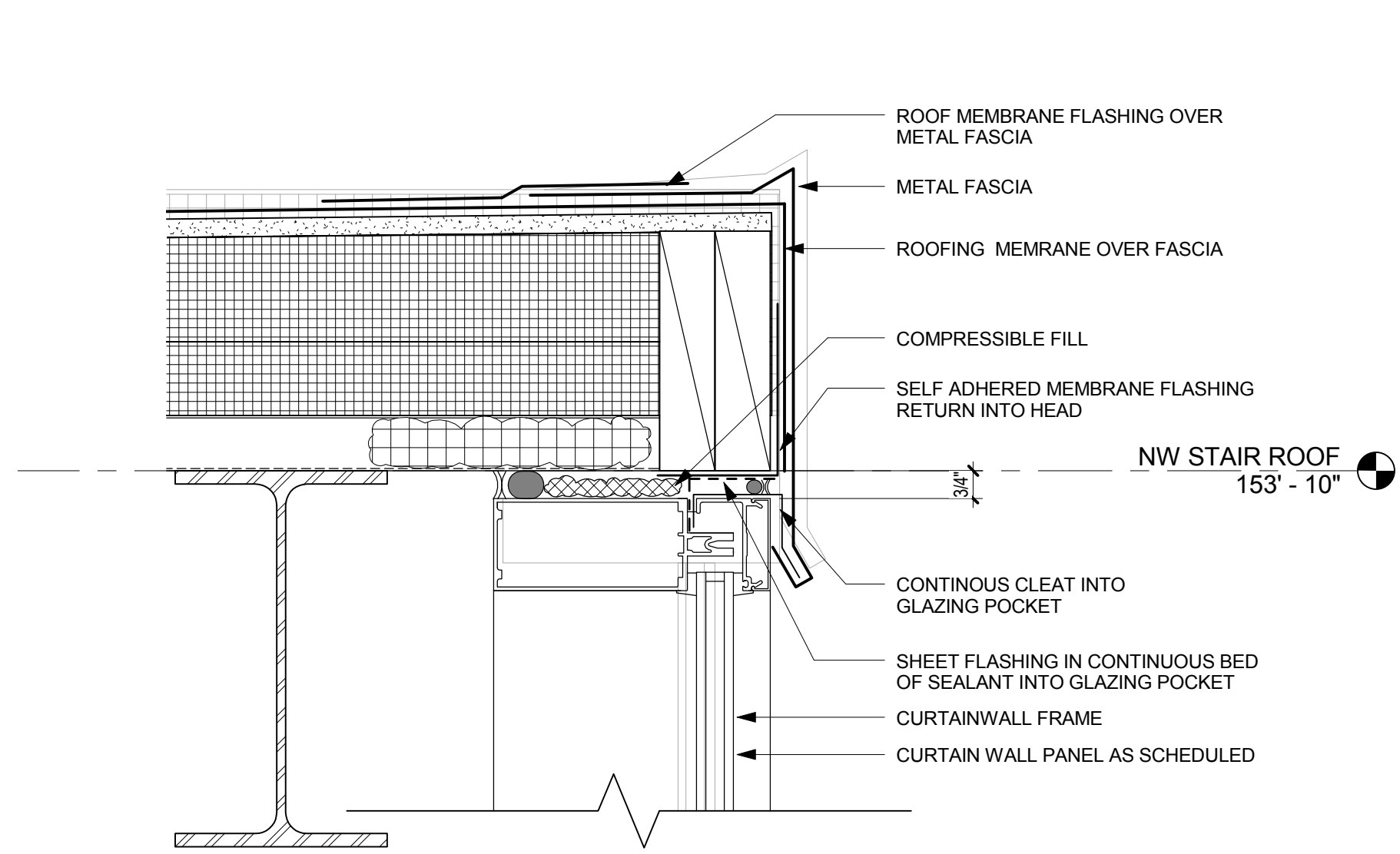
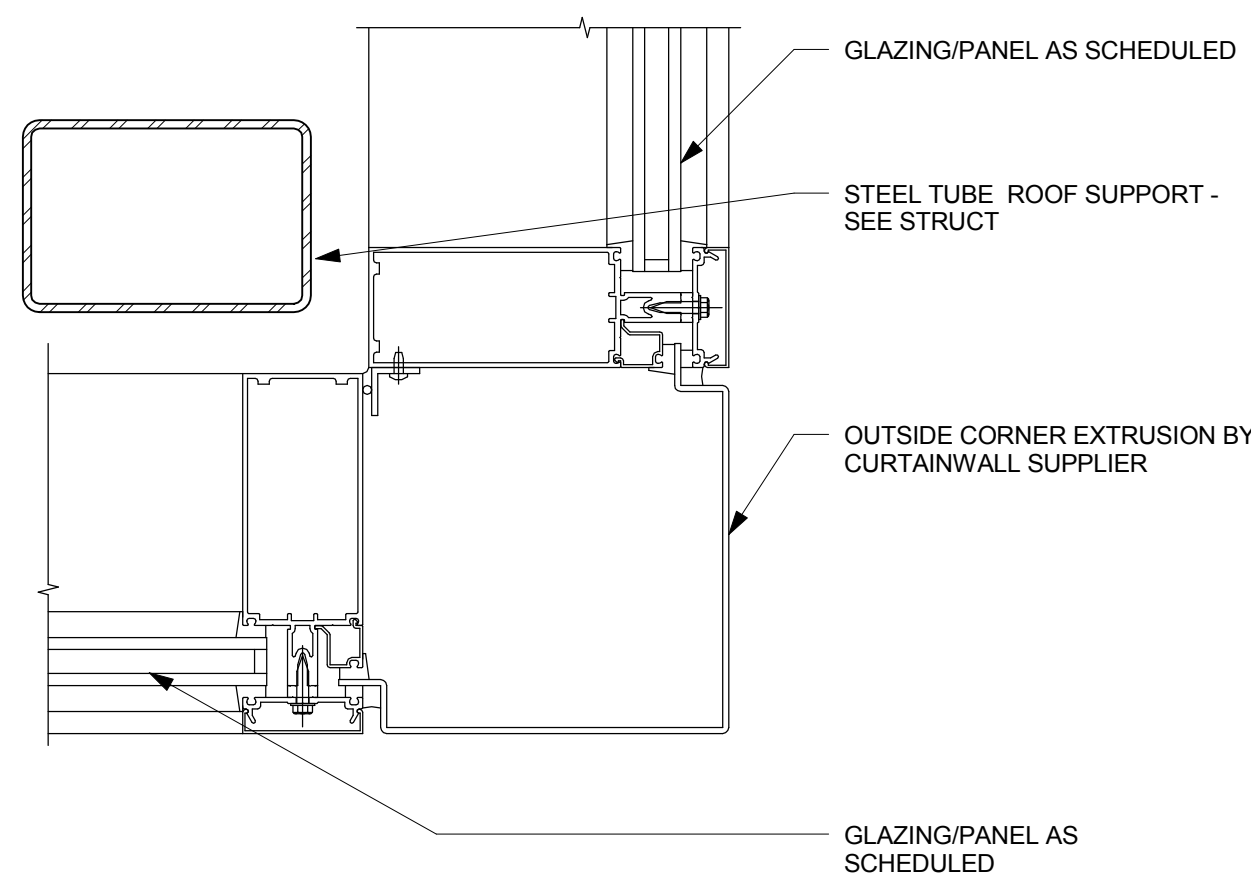


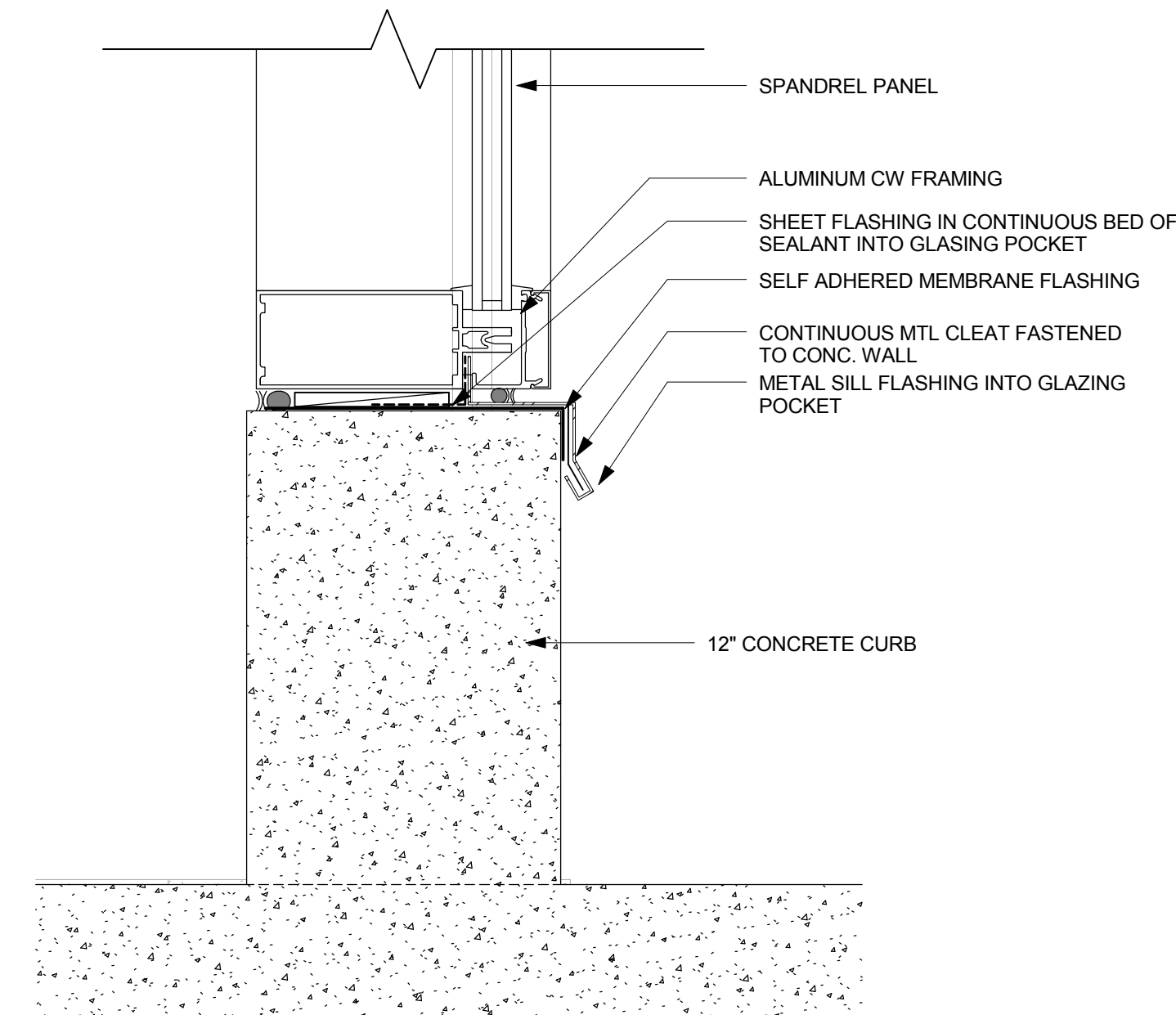
A three inches = one foot
B one and one half inches = one foot
C one inch = one foot
D three quarters inch = one foot
E one half inch = one foot
F three eighths inch = one foot
G one quarter inch = one foot
H one eighth inch = one foot



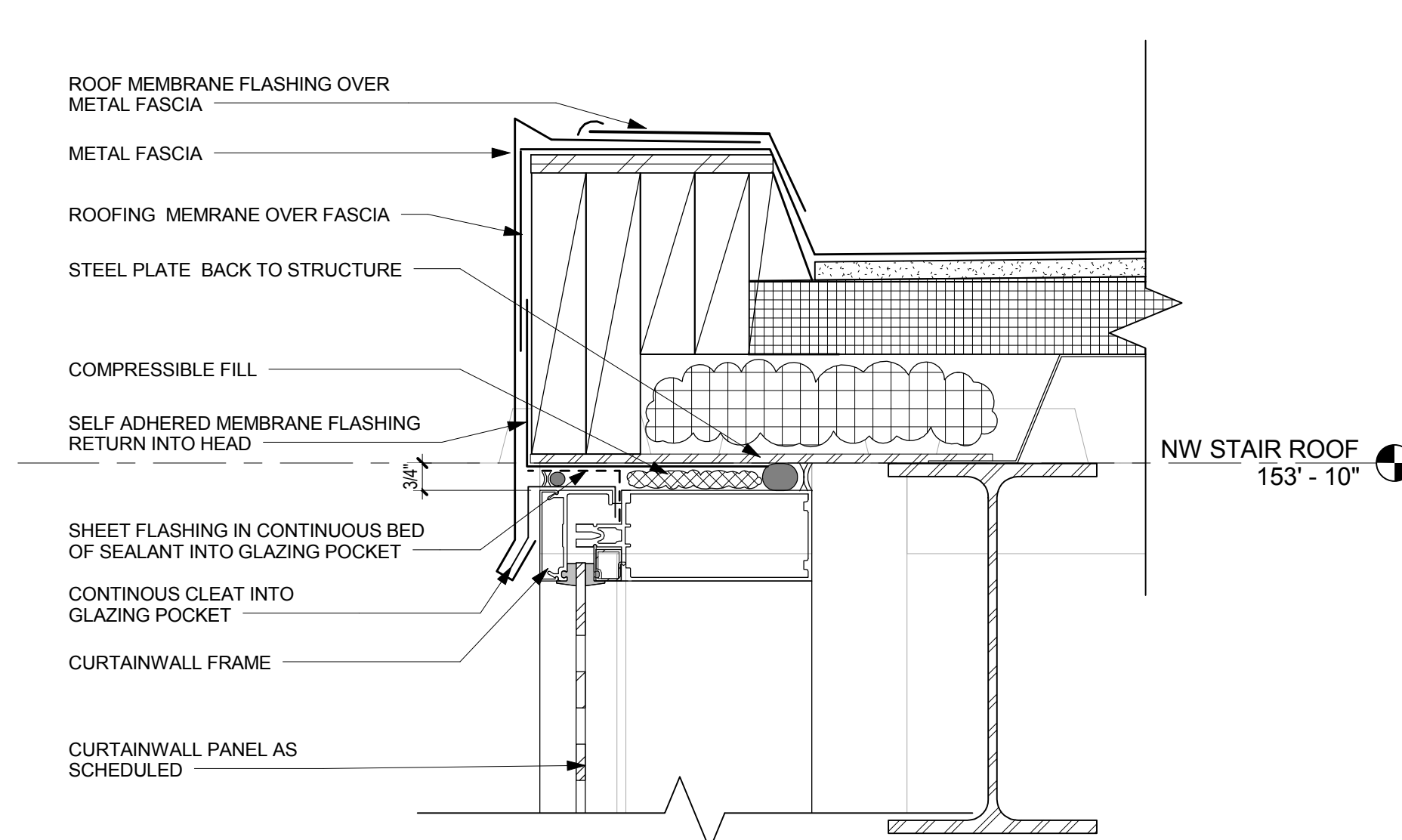
A1 CW HEAD @ ROOF
3" = 1'-0"



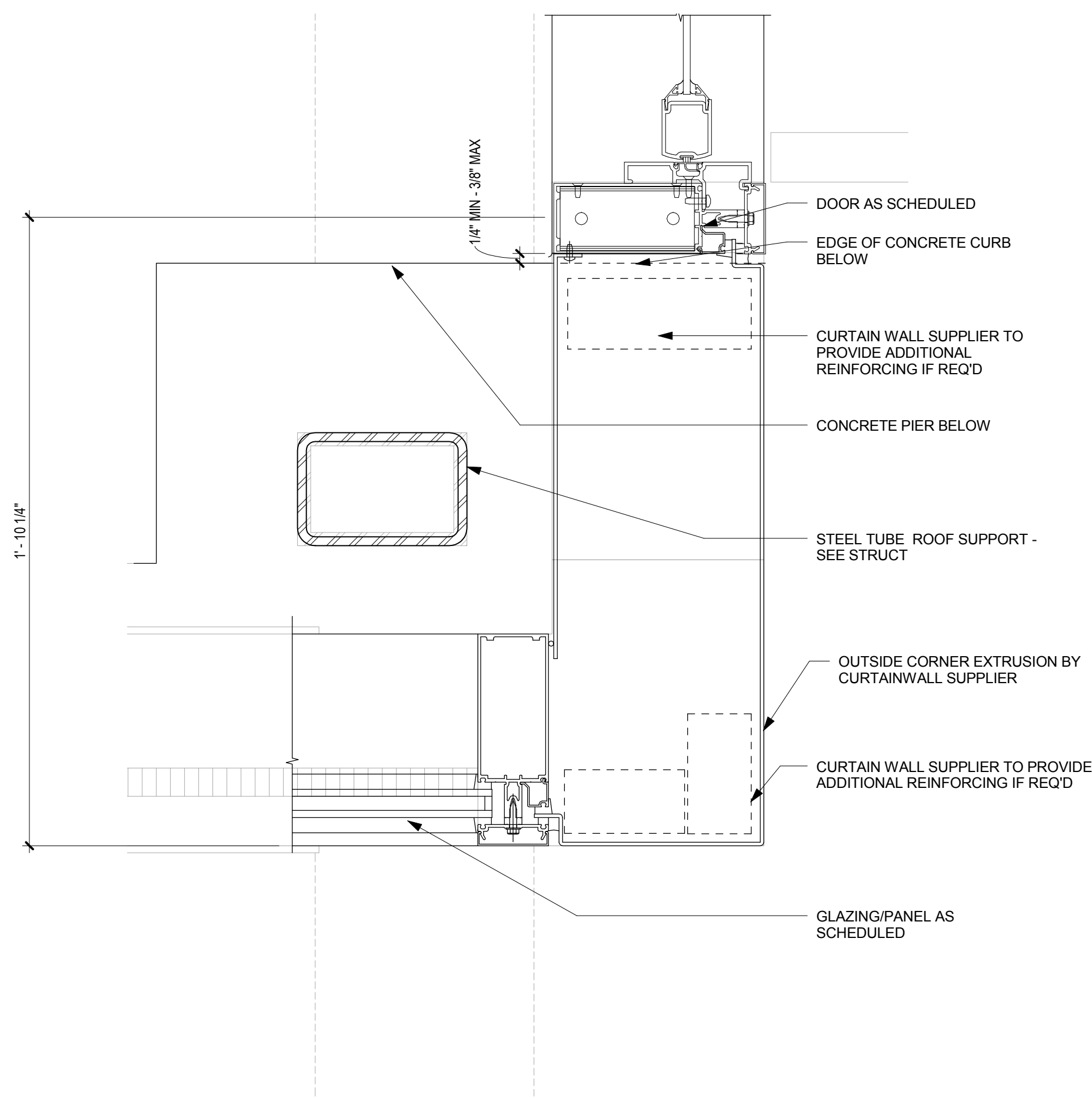
C1 CW - CORNER MULLION
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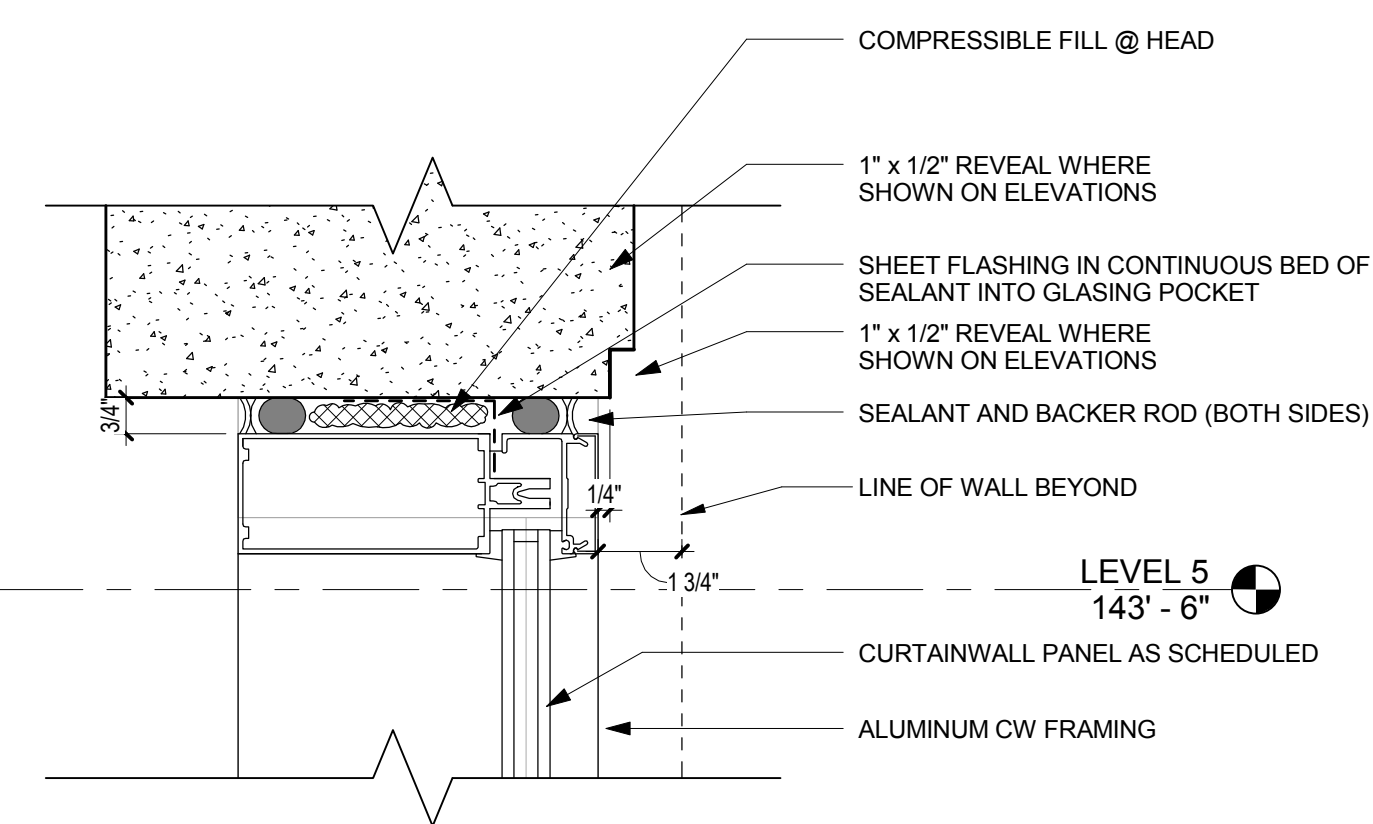
E1 CW SILL @ SLAB
3" = 1'-0"



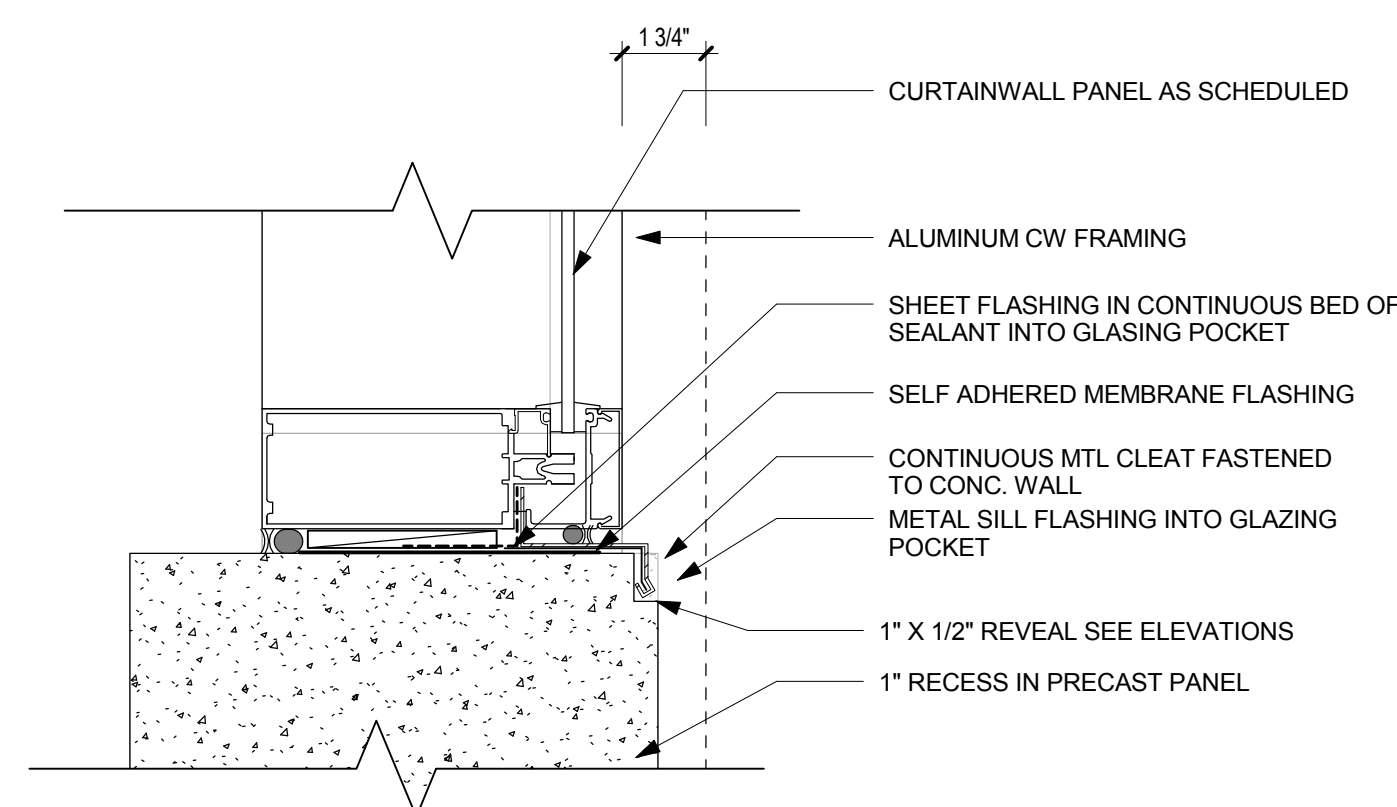
A5 LOUVER HEAD @ CW
3" = 1'-0"



E6 STAIR 2 - CW CORNER @ DOOR
3" = 1'-0"



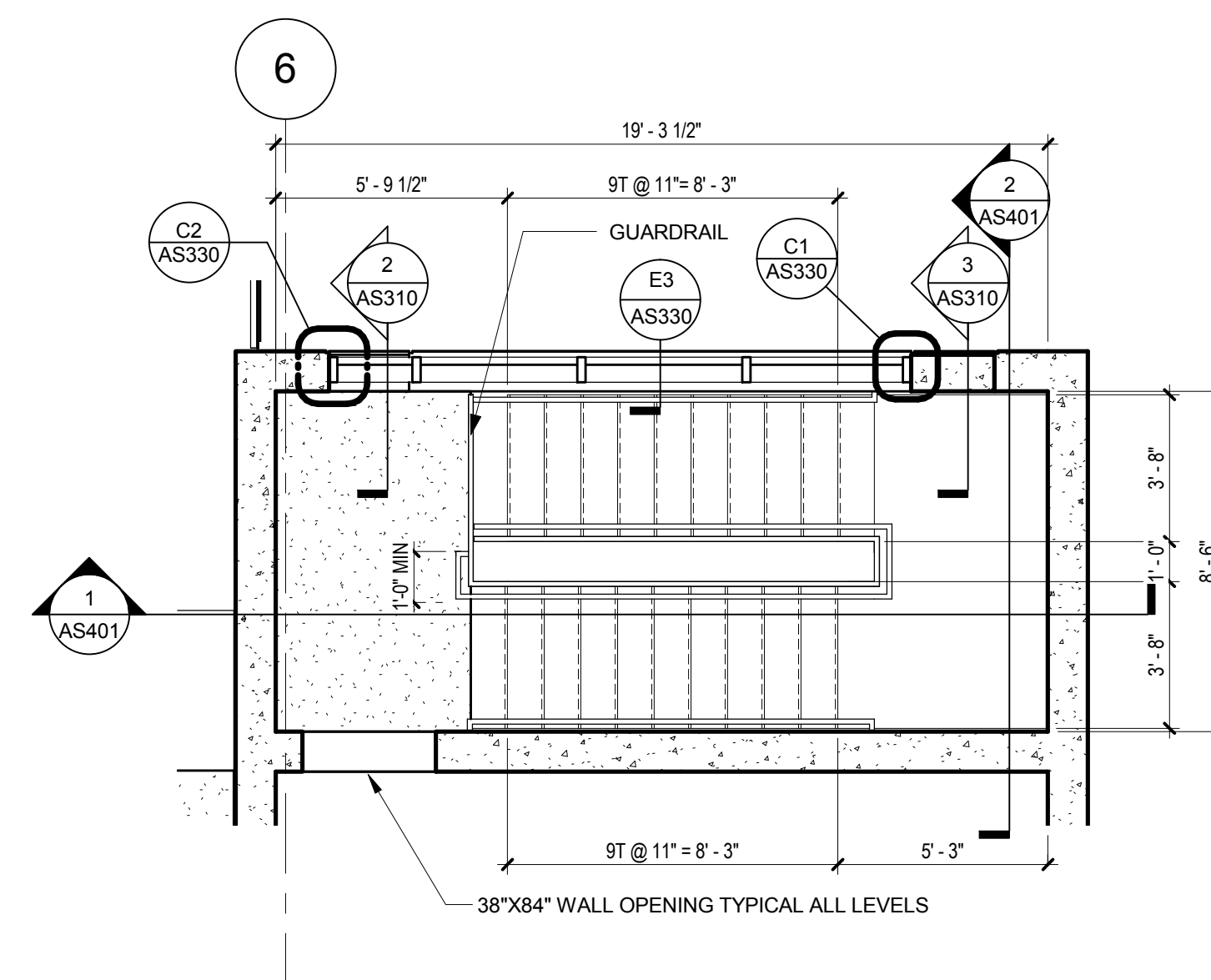
A8 CW HEAD @ PRECAST RECESS
3" = 1'-0"



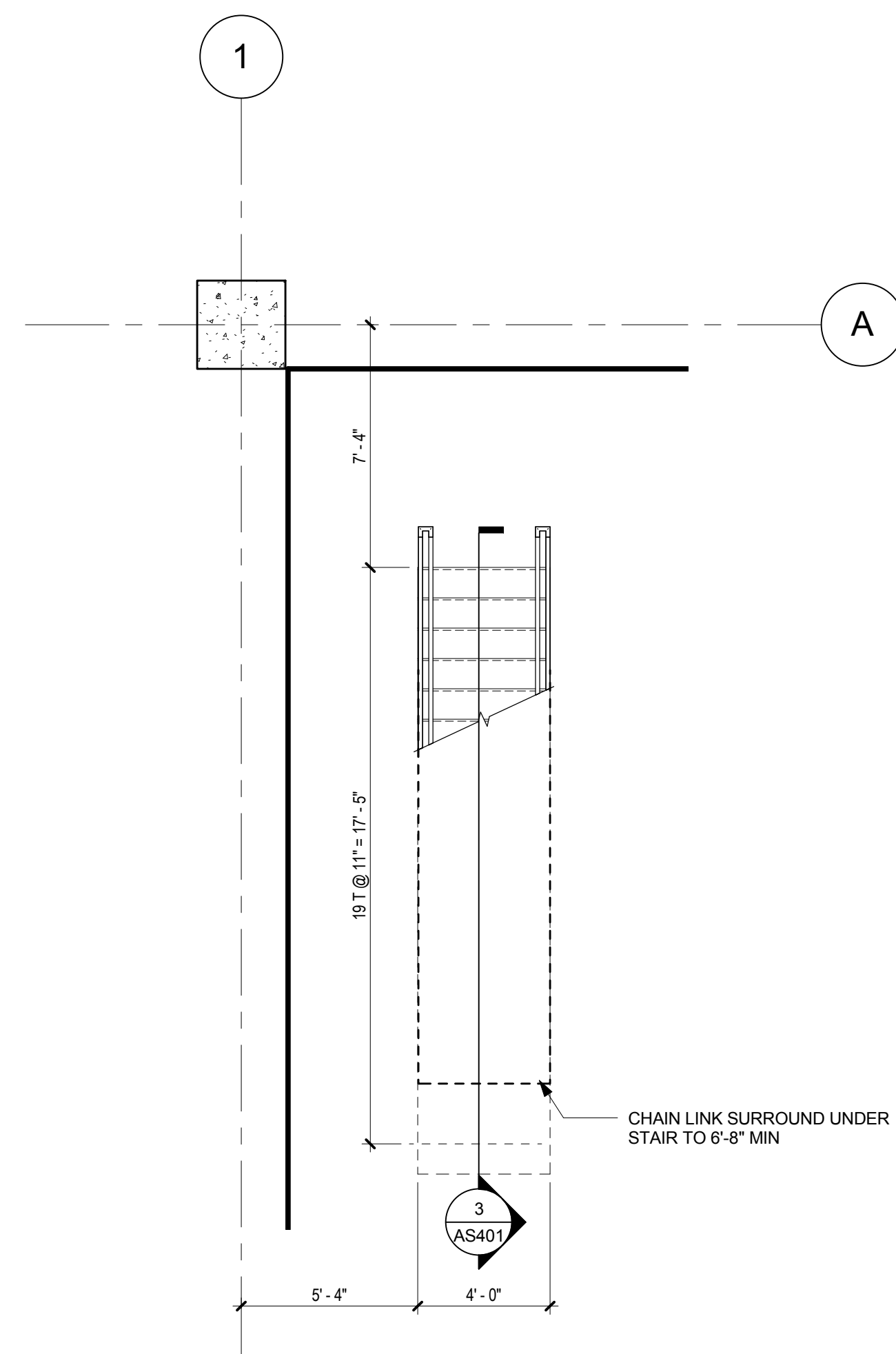
E8 CW SILL @ PRECAST @ RECESS
3" = 1'-0"

100% BID DOCUMENTS

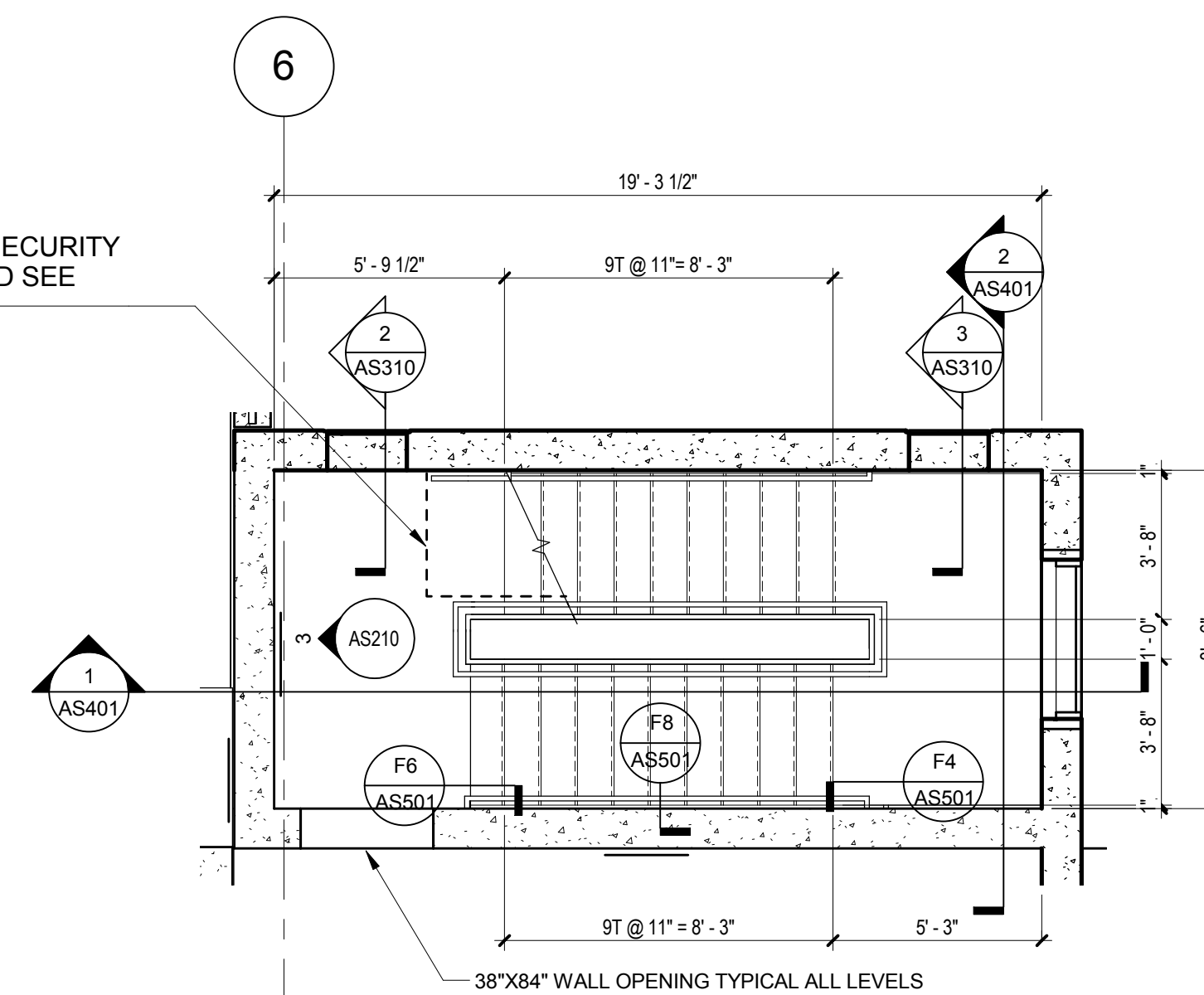
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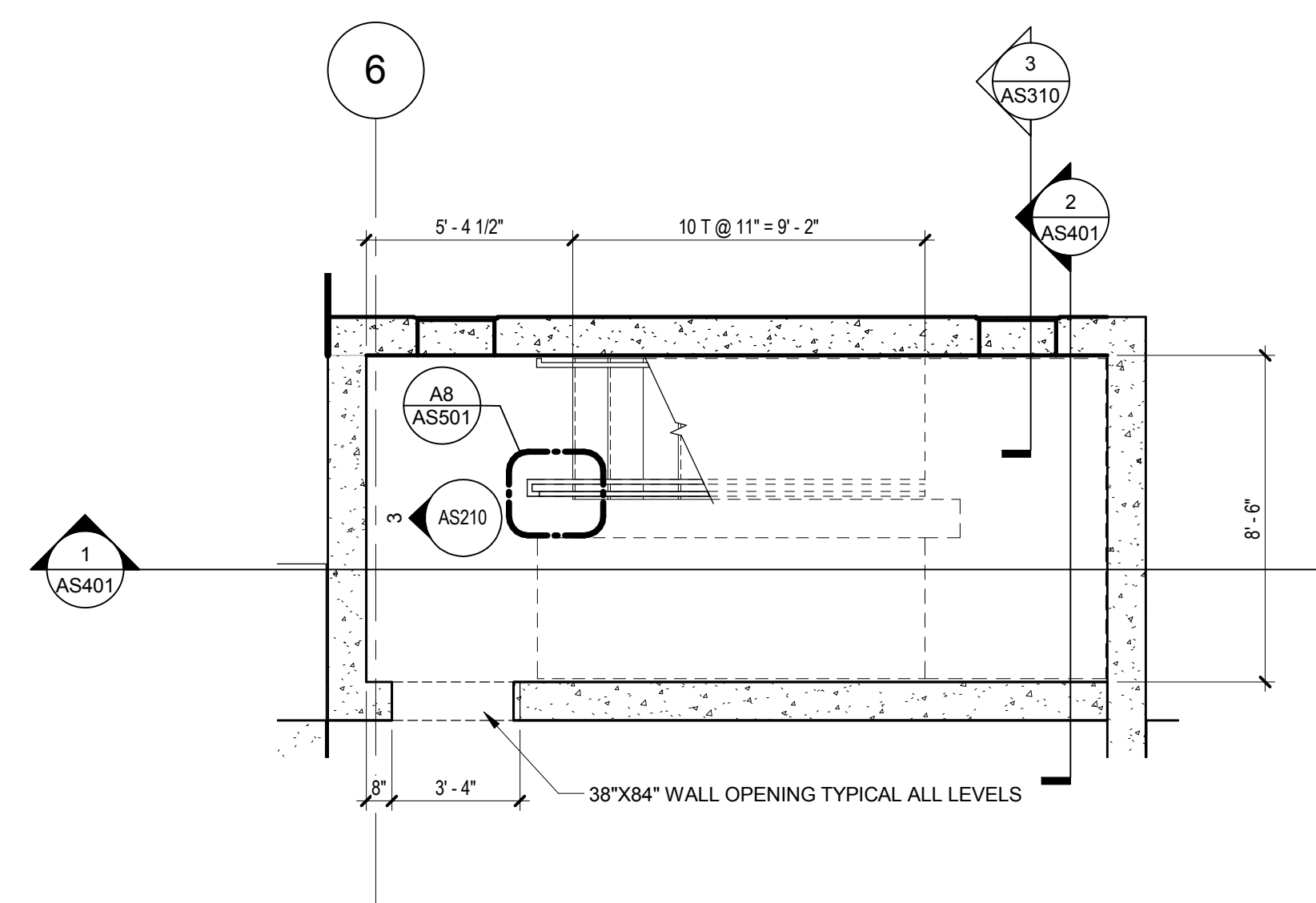
3 STAIR 1 - LEVEL 5
1/4" = 1'-0"



2 STAIR 1 - TYPICAL FLOOR
1/4" = 1'-0"



1 STAIR 1 - FOUNDATION LEVEL
1/4" = 1'-0"



VA FORM 08-6231, OCT 1978


CONSULTANTS:

SPECIFICATIONS:

Lowell Specifications
34 Marc Avenue
Topsham, ME 04802
Tel: (207) 406-4001
Email: keith@lowellspecs.com



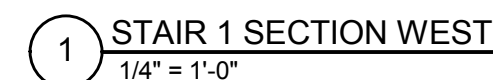
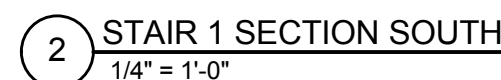
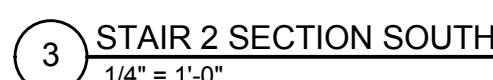
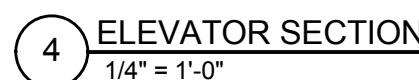
P D T
ARCHITECTS



482 Payne Road
Scarborough, ME 04074
Tel: (207) 883-3355
Fax: (207) 883-3376

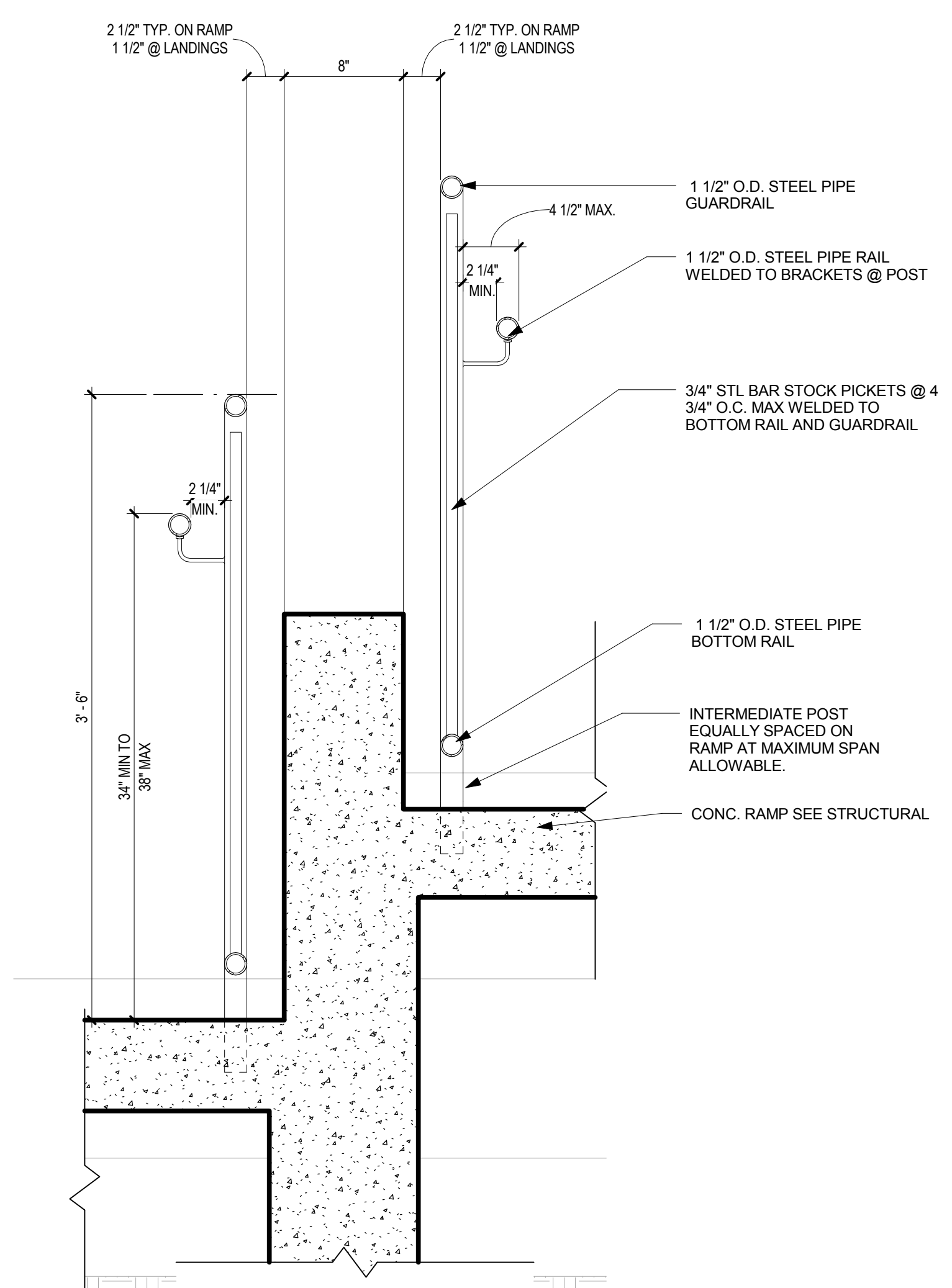
BECKER
STRUCTURAL ENGINEERS

Department of
Veterans Affairs

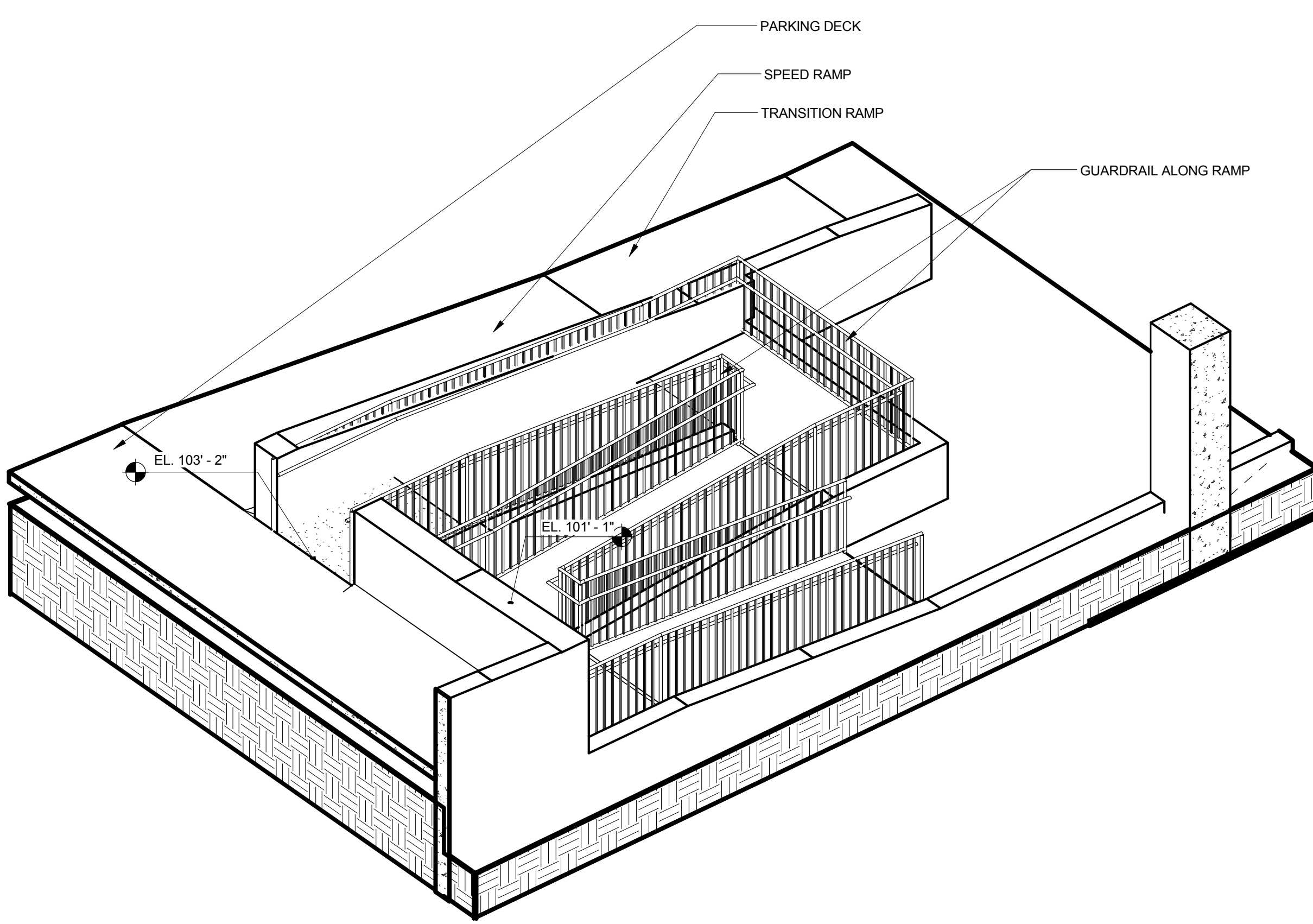


		CONSULTANTS: SPECIFICATIONS: Lowell Specifications 34 Marc Avenue Topsham, ME 04802 Tel: (207) 406-4001 Email: keith@lowellspecs.com				ARCHITECT/ENGINEERS: <div style="display: flex; justify-content: space-between;"> <div style="text-align: center;">  PDT ARCHITECTS </div> <div> ARCHITECTURE INTERIOR DESIGN PLANNING 49 DARTMOUTH STREET PORTLAND, ME 04101 Tel: (207) 883-3366 www.pdtarch.com </div> <div style="text-align: center;">  Stantec </div> <div style="text-align: center;">  BECKER STRUCTURAL ENGINEERS </div> <div> 482 Payne Road Scarborough, ME 04074 Tel: (207) 883-3366 Fax: (207) 883-3376 </div> <div> 75 York Street, Portland, Maine 04101 207.879.1838 • beckerstructural.com </div> </div>		<table border="1" style="width: 100%;"> <tr> <td colspan="2">Drawing Title SECTIONS - STAIR AND ELEVATOR</td> <td colspan="2">Project Number 523-400</td> </tr> <tr> <td colspan="2">Location VAMC - West Roxbury, MA 02132</td> <td colspan="2">Building Number ?</td> </tr> <tr> <td colspan="2">Approved: Project Director DENIS MCLAUGHLIN VA - JAMAICA PLAIN, MA (857) - 364-5419</td> <td colspan="2">Drawing Number AS401 Dwg: 30 of 99</td> </tr> <tr> <td>Date 06/15/2015</td> <td>Checked DW</td> <td colspan="2">Drawn ADH</td> </tr> </table>		Drawing Title SECTIONS - STAIR AND ELEVATOR		Project Number 523-400		Location VAMC - West Roxbury, MA 02132		Building Number ?		Approved: Project Director DENIS MCLAUGHLIN VA - JAMAICA PLAIN, MA (857) - 364-5419		Drawing Number AS401 Dwg: 30 of 99		Date 06/15/2015	Checked DW	Drawn ADH		<div style="text-align: center;"> Office of Facilities Management  Department of Veterans Affairs </div>	
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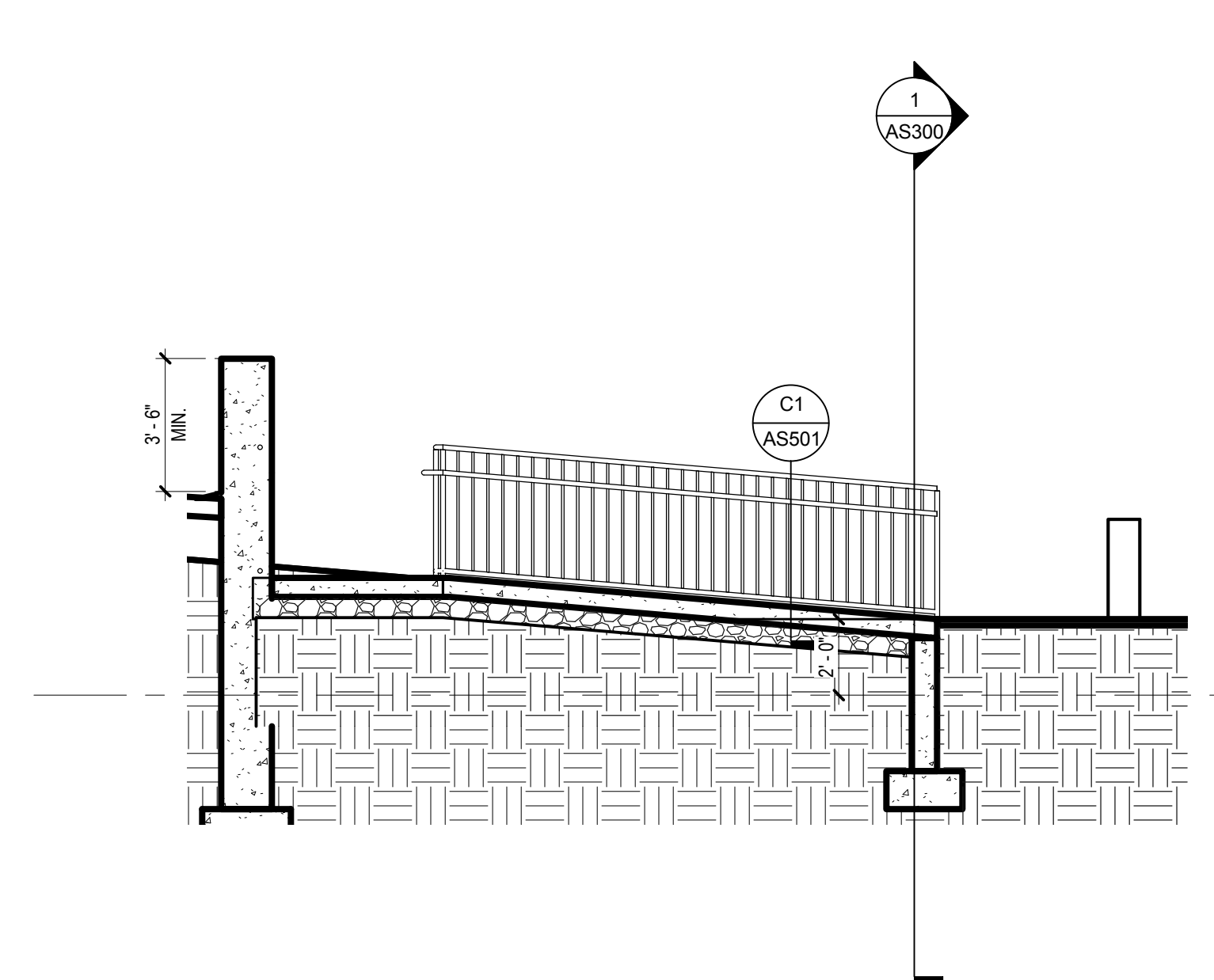
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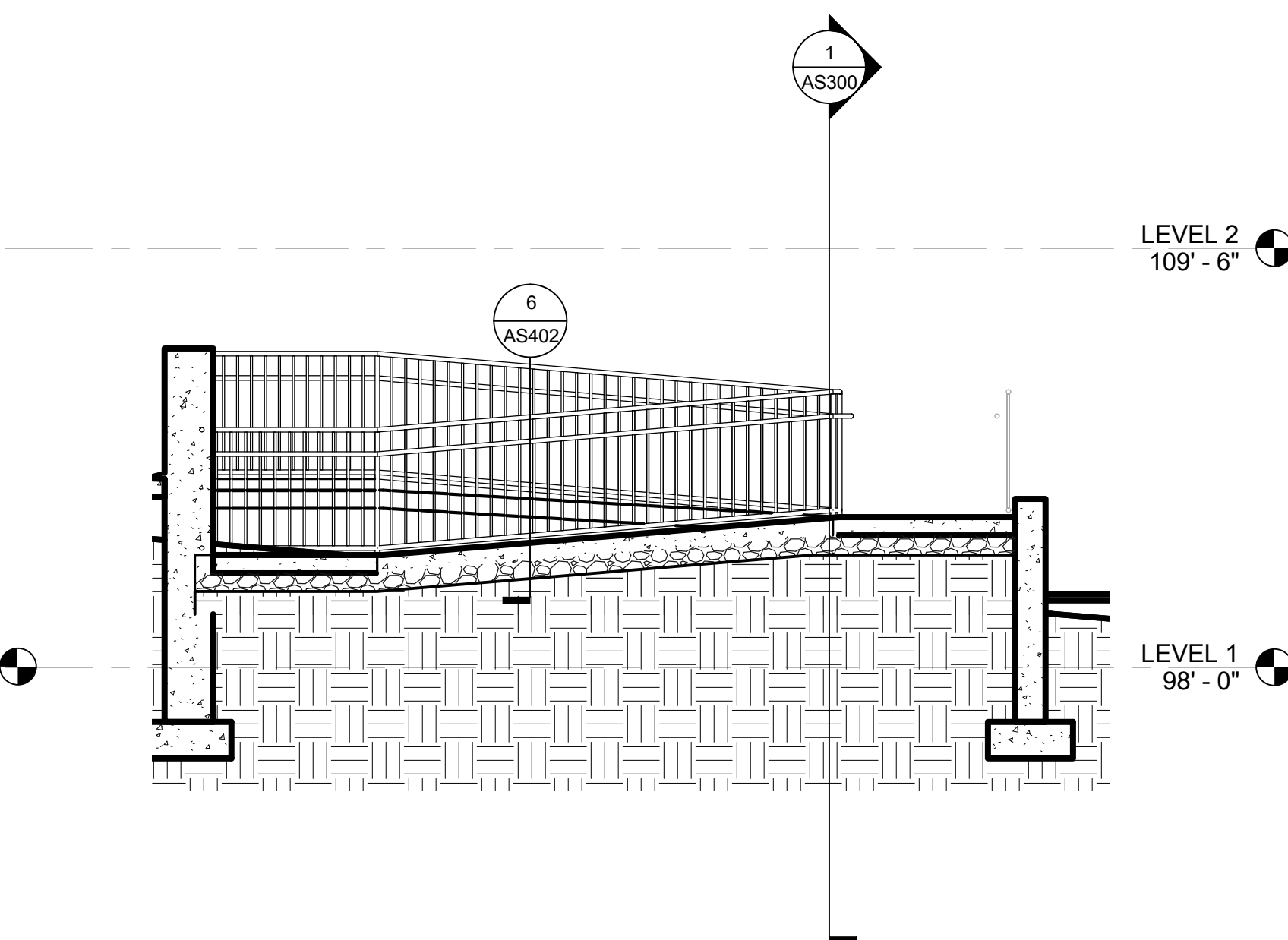
6 RAMP RAILING DETAIL
1 1/2" = 1'-0"



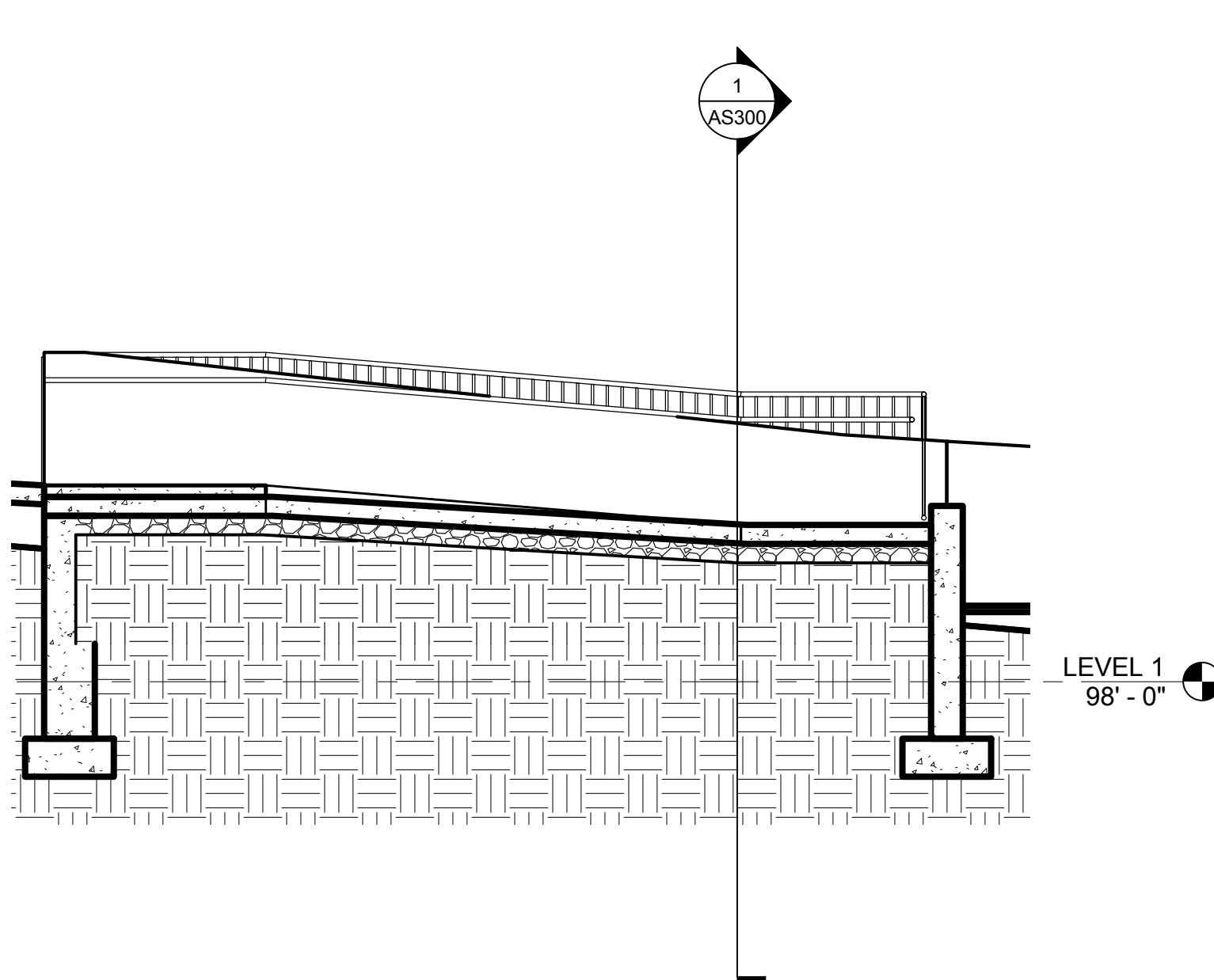
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AXON
1/4\"/>



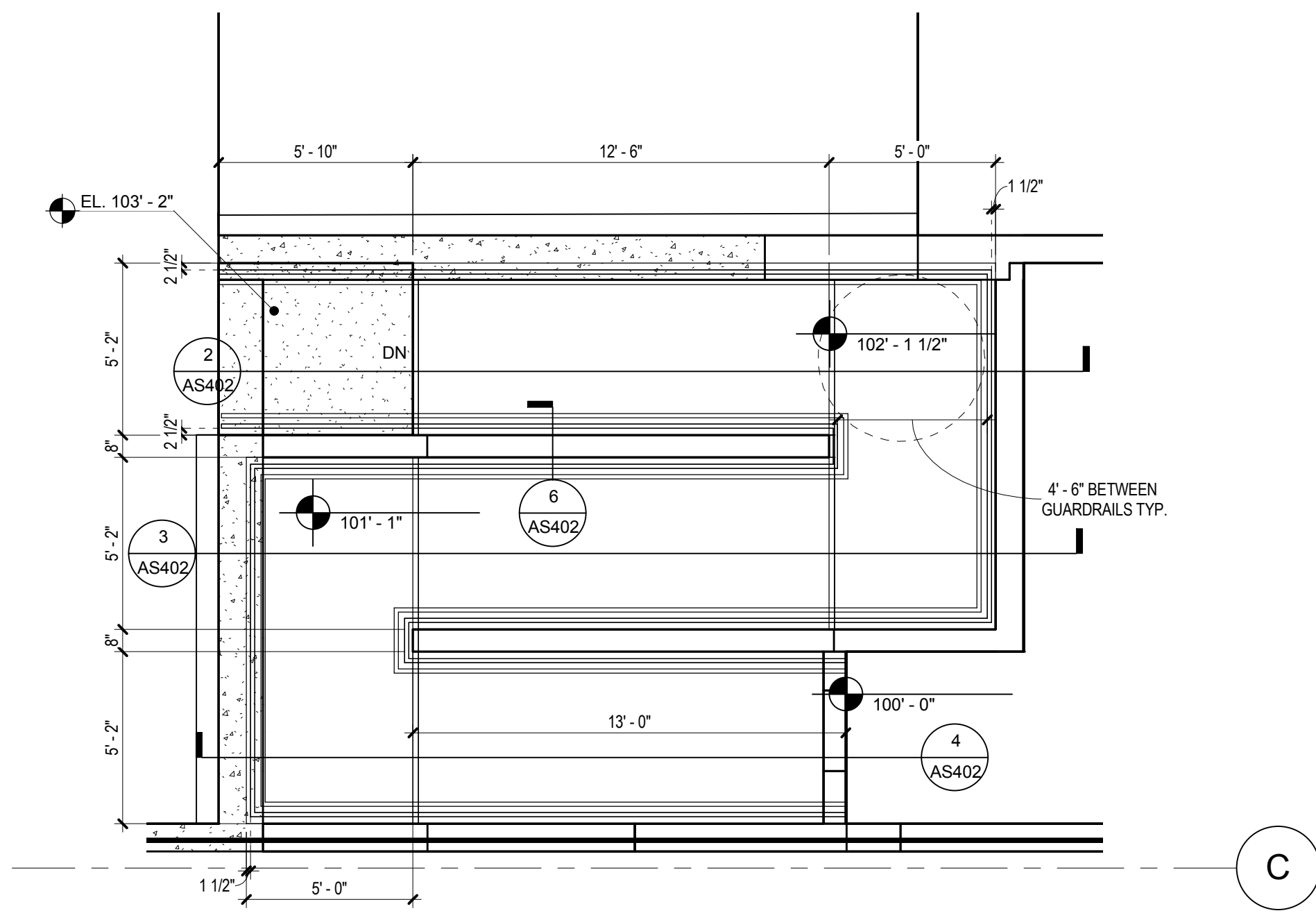
4 RAMP SECTION - BOTTOM FLIGHT
1/4\"/>



3 RAMP SECTION - MIDDLE FLIGHT
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2 RAMP SECTION - TOP FLIGHT
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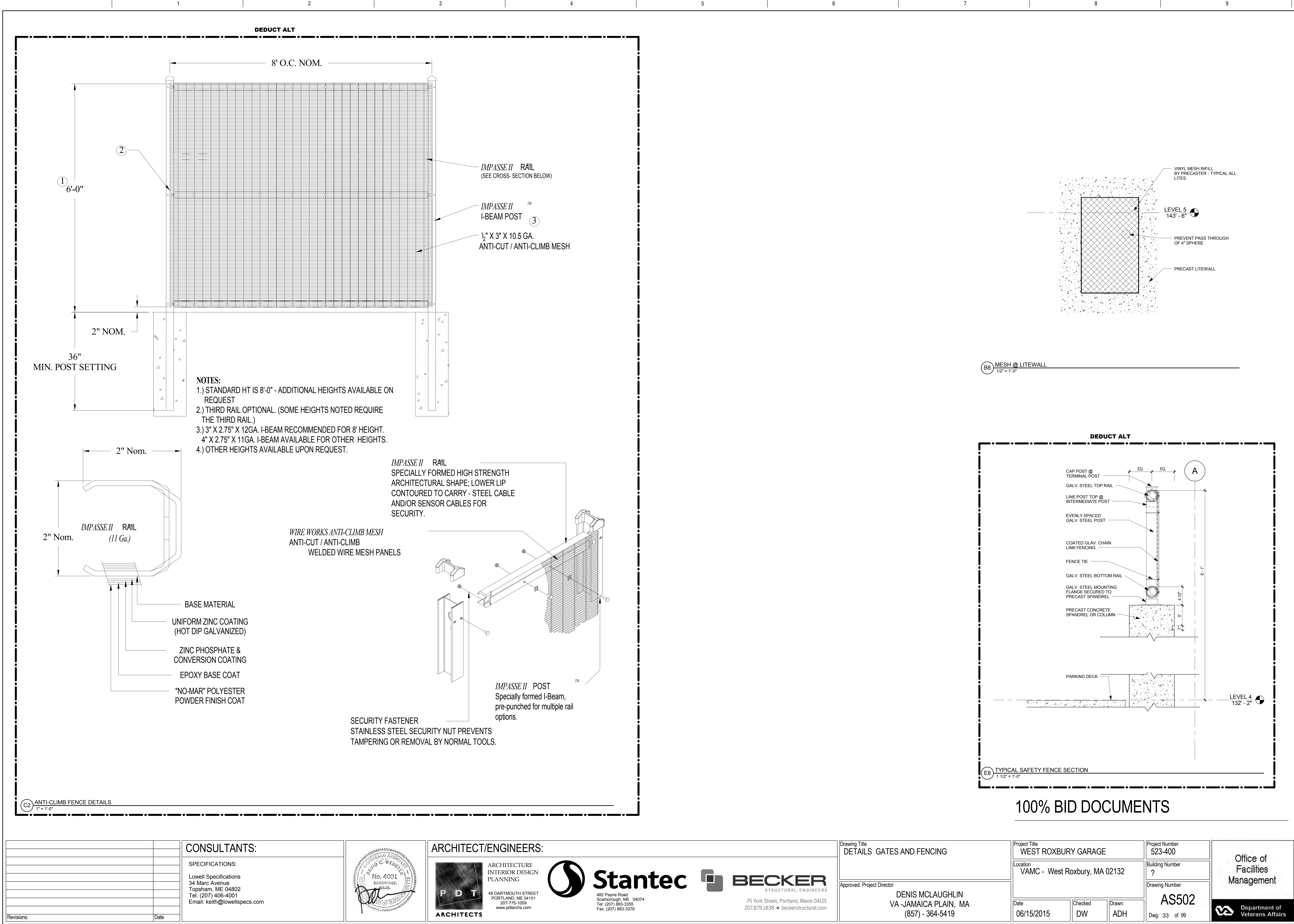


1 ACCESSIBLE RAMP @ SPEED RAMP
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100% BID DOCUMENTS

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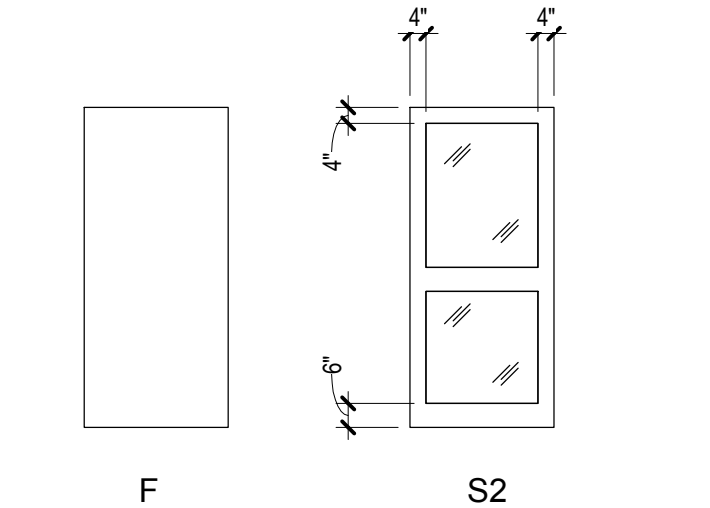
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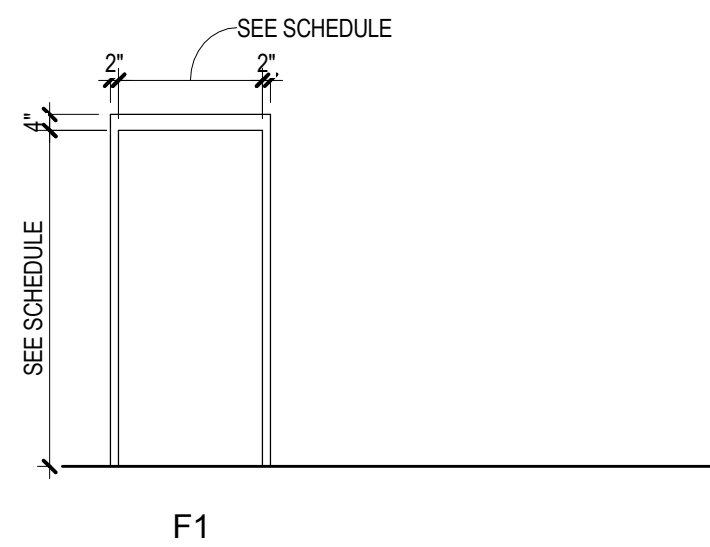
A
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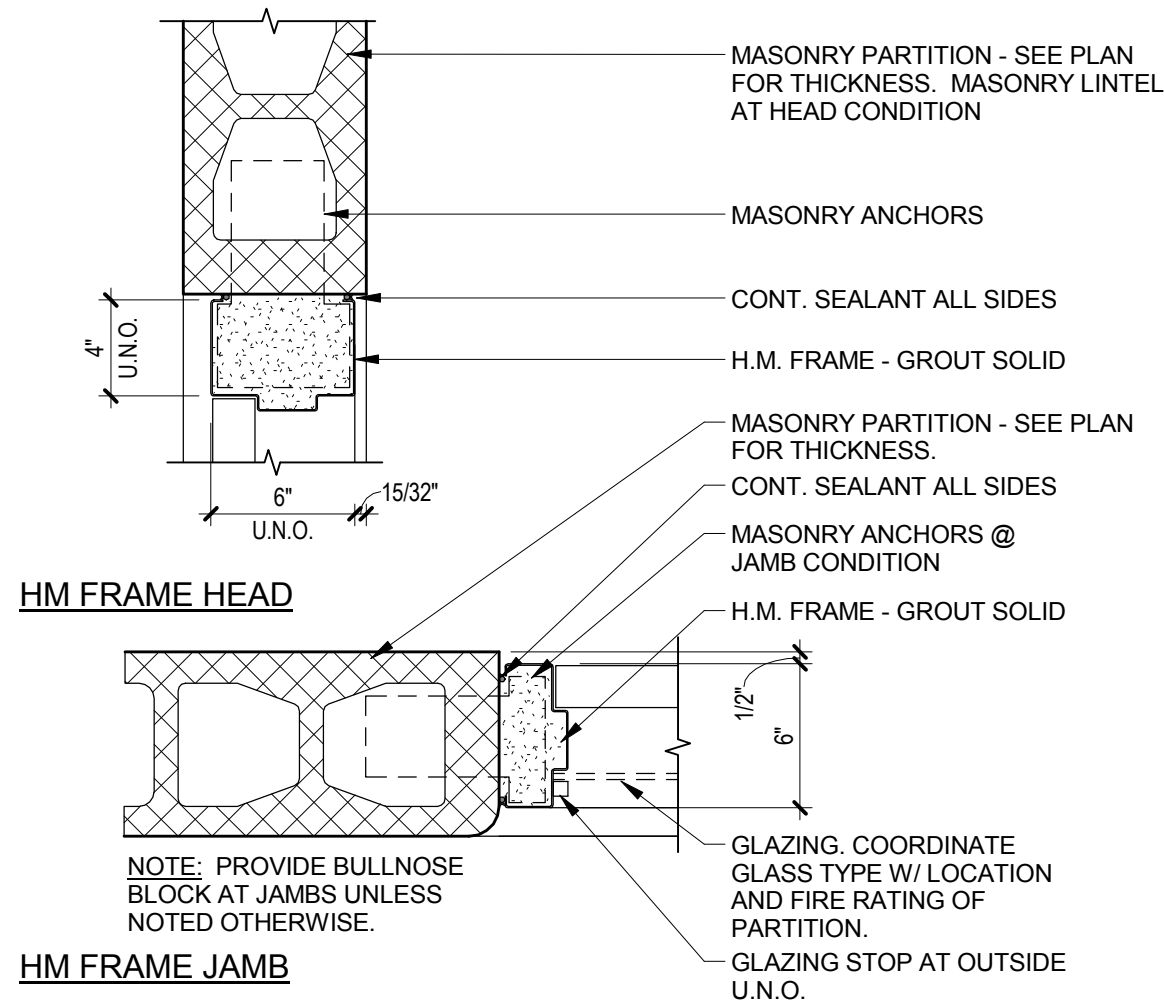
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		OPENING		PANEL		PANEL		TYPE				
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100A	Single - Hinged - Cw	3' - 6"	8' - 6"			S2		SINGLE	3' - 6"	CW-A2		
101A	Single - Hinged	3' - 0"	7' - 0"	3' - 4"	7' - 2"	F	1 3/4"	SINGLE	3' - 0"	F1	90 MIN.	
102A	Single - Hinged	3' - 0"	7' - 0"	3' - 4"	7' - 2"	F	1 3/4"	SINGLE	3' - 0"	F1		
103A	Single - Hinged	3' - 0"	7' - 0"	3' - 4"	7' - 2"	F	1 3/4"	SINGLE	3' - 0"	F1		
104A	Single - Hinged	3' - 0"	7' - 0"	3' - 4"	7' - 2"	F	1 3/4"	SINGLE	3' - 0"	F1		
201A	Single - Hinged	3' - 0"	7' - 0"	3' - 4"	7' - 2"	F	1 3/4"	SINGLE	3' - 0"	F1		
202A	Single - Hinged	3' - 0"	7' - 0"	3' - 4"	7' - 2"	F	1 3/4"	SINGLE	3' - 0"	F1		
ST2-A	Single - Hinged - Cw	3' - 0"	8' - 0"			S2		SINGLE	3' - 0"	CW-A3		



DOOR ELEVATION LEGEND
1/4" = 1'-0"



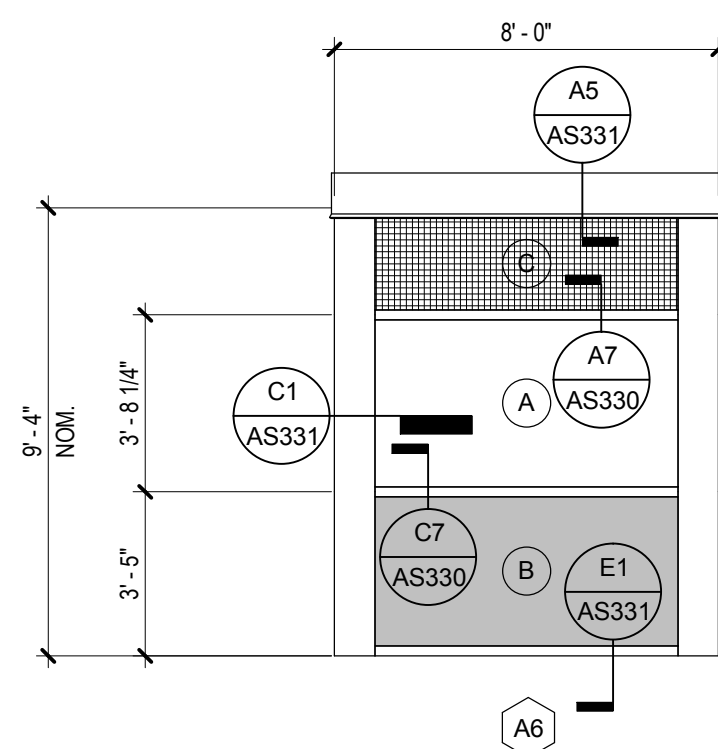
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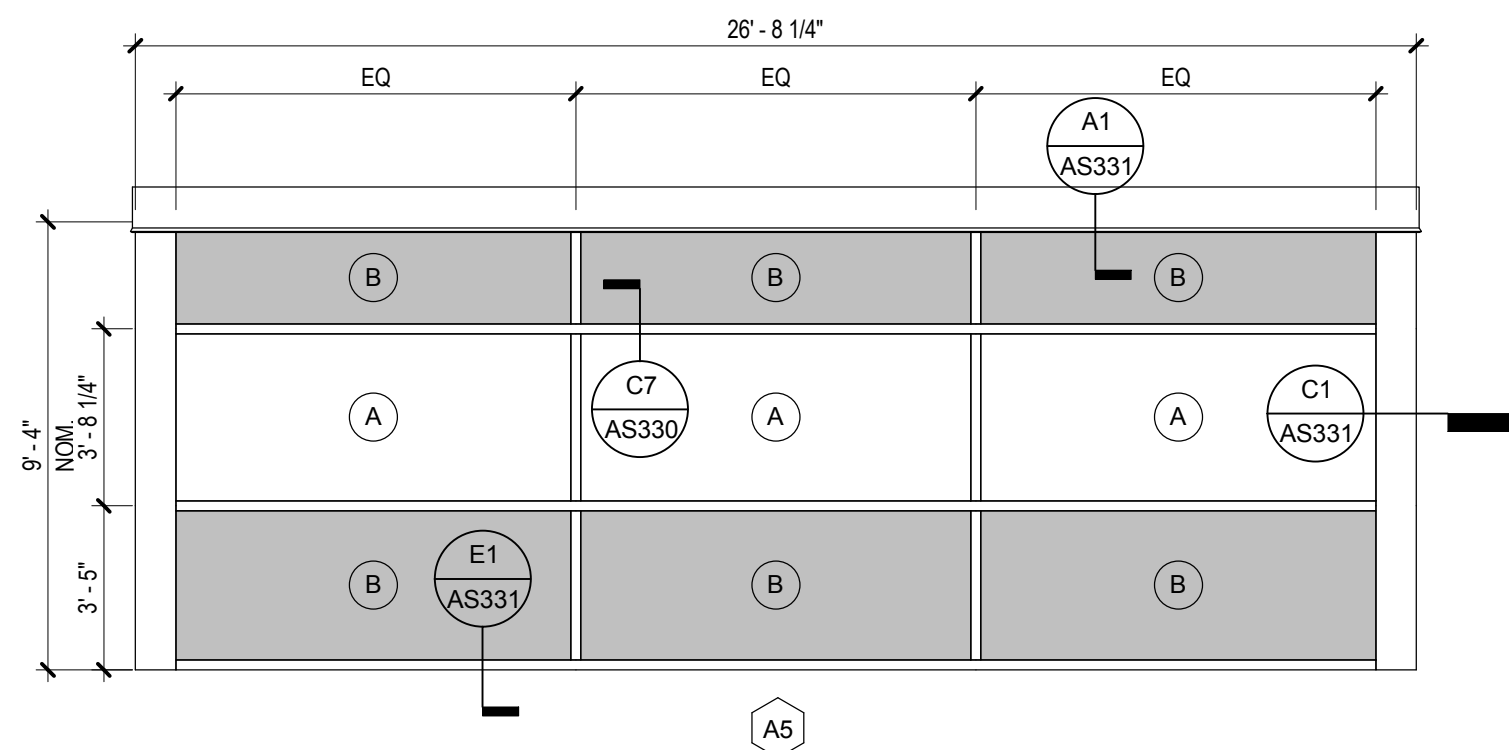
1 HM FRAME DETAILS @ CMU
1 1/2" = 1'-0"

100% BID DOCUMENTS

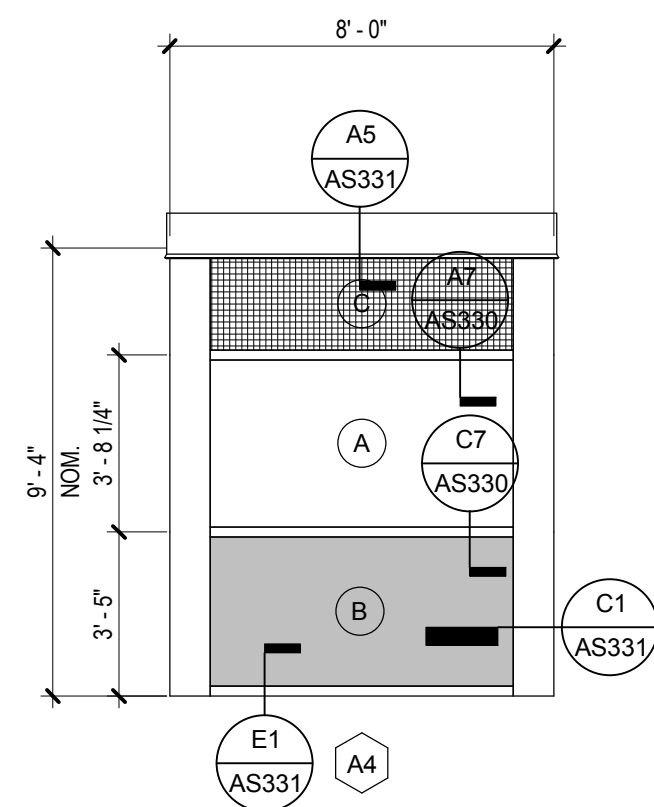
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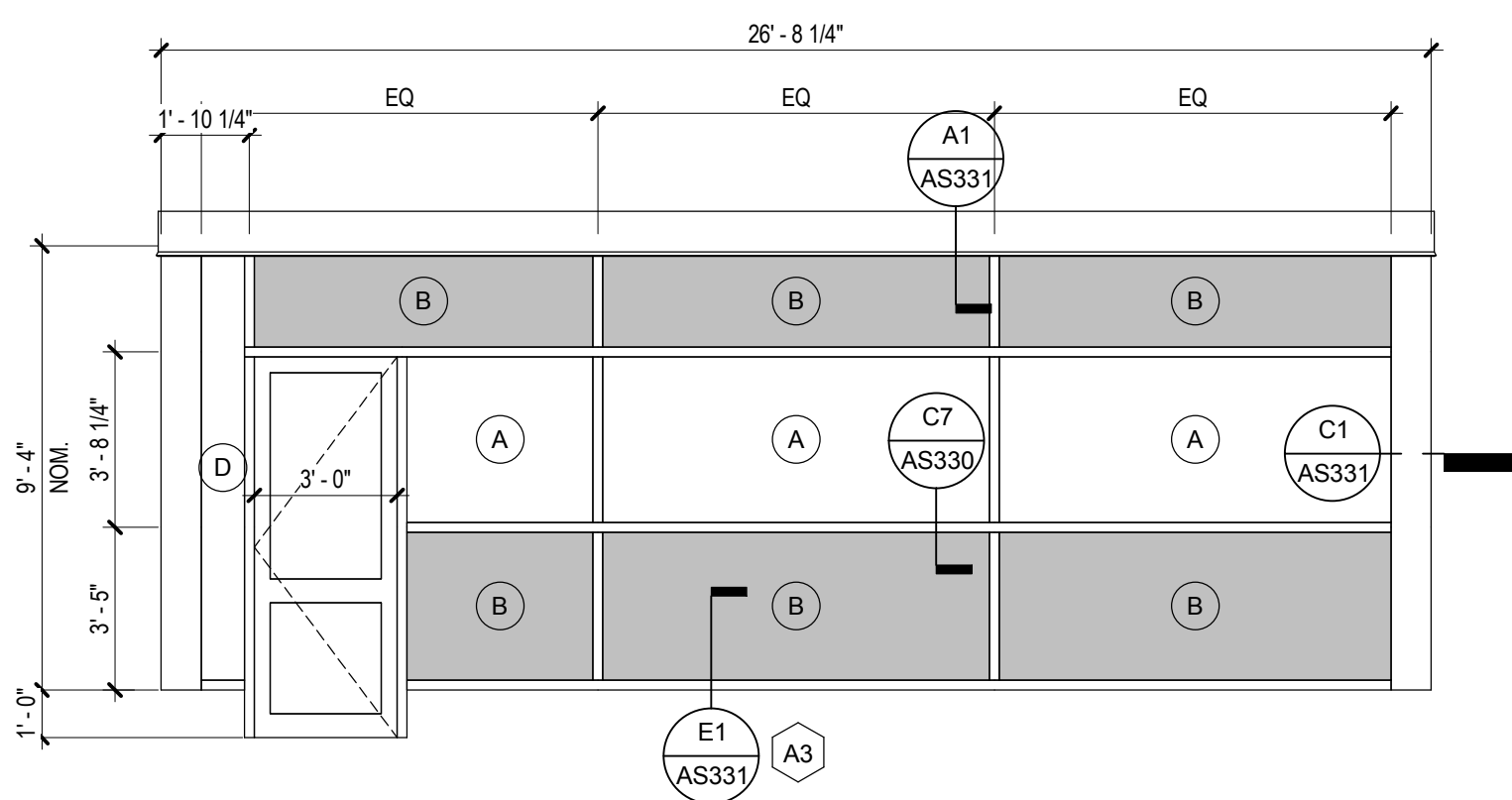
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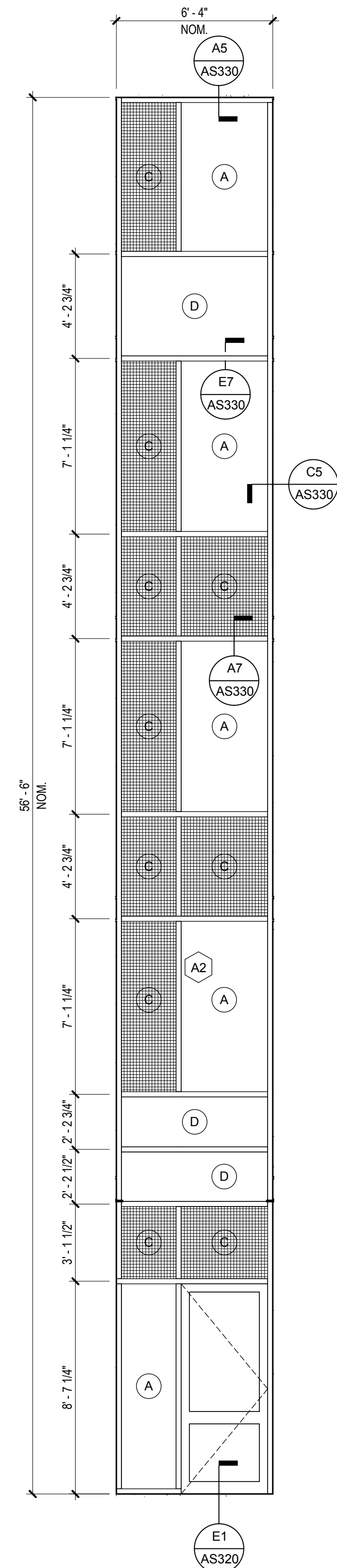
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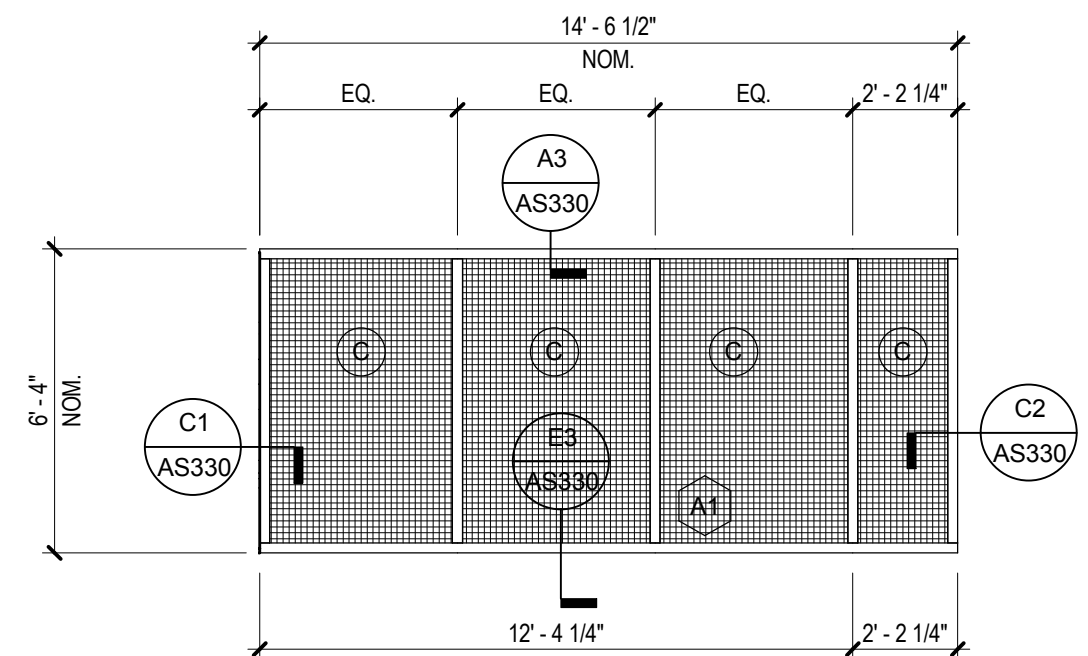
4 CW-A4
1/4" = 1'-0"



3 CW-A3
1/4" = 1'-0"



2 CW-A2
1/4" = 1'-0"



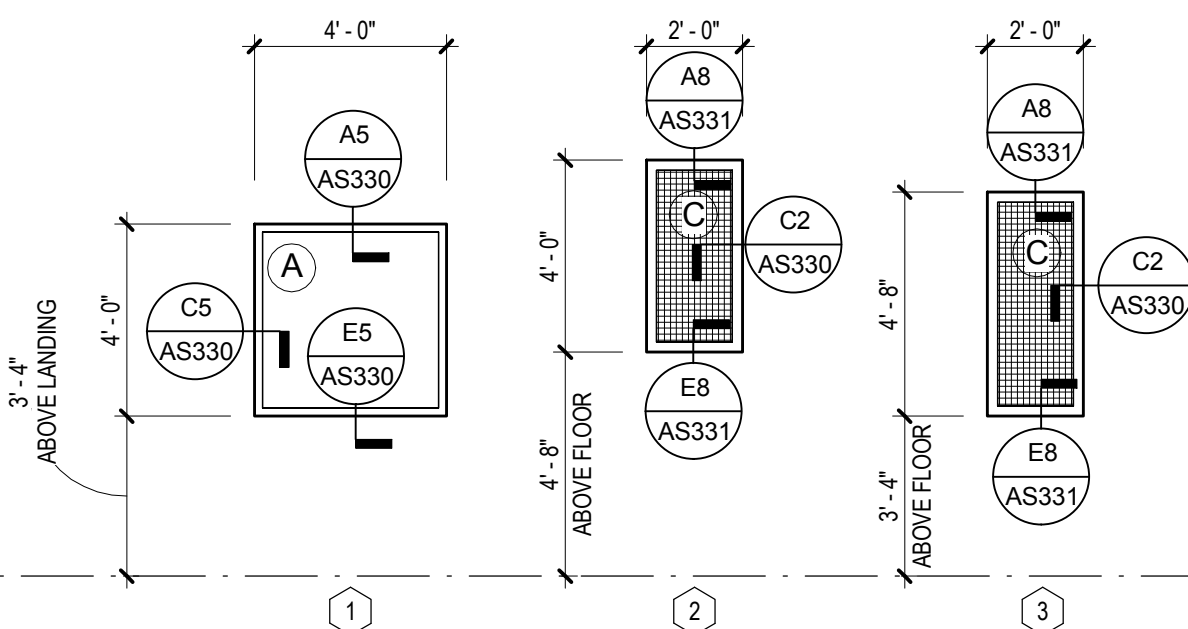
1 CW-A1
1/4" = 1'-0"

- (A) 1/4" LAMINATED GLAZING
- (B) 1" SPANDREL PANEL
- (C) 1/4" METAL PANEL SCREEN
- (D) INFILL METAL PANEL BY CW SUPPLIER

GLAZING LEGEND

100% BID DOCUMENTS

7 WINDOW SCHEDULE
1/4" = 1'-0"



Revisions:	Date	CONSULTANTS:	ARCHITECT/ENGINEERS:	Drawing Title	Project Title	Project Number	Office of Facilities Management
		SPECIFICATIONS:	ARCHITECTURE INTERIOR DESIGN PLANNING	SCHEDULES - WINDOW AND CURTAINWALL	WEST ROXBURY GARAGE	523-400	
		Lowell Specifications	49 DARTMOUTH STREET PORTLAND, ME 04101 207-775-1059 www.pdtarchs.com	Approved: Project Director	Location VAMC - West Roxbury, MA 02132	Building Number ?	
		34 Marc Avenue Topsham, ME 04802 Tel: (207) 406-4001 Email: keith@lowellspecs.com	482 Payne Road Scarborough, ME 04074 Tel: (207) 883-3355 Fax: (207) 883-3376	DENIS MCLAUGHLIN VA - JAMAICA PLAIN, MA (857) - 364-5419	Date 06/15/2015	Checked DW	Department of Veterans Affairs
					Drawn ADH	AS602	
						Dwg: 36 of 99	

GENERAL NOTES

- THE NOTES ON THESE DRAWINGS ARE NOT INTENDED TO REPLACE SPECIFICATIONS. SEE SPECIFICATIONS FOR REQUIREMENTS IN ADDITION TO GENERAL NOTES. INCONSISTENCIES BETWEEN THESE DRAWINGS AND THE SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO PROCEEDING WITH THE AFFECTED PORTION OF THE WORK.
- STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATIONS AND ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND SITE DRAWINGS. CONSULT THESE DRAWINGS FOR LOCATIONS AND DIMENSIONS OF OPENINGS, CHASES, INSERTS, REGLETS, SLEEVES, DEPRESSIONS, AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.
- ALL DIMENSIONS, EXISTING CONDITIONS, AND AS-BUILT CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.
- THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE ONLY AFTER THE STRUCTURAL WORK CONTAINED IN THE SS-/ST- DRAWINGS IS COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIEDOWNS. SUCH MATERIAL SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER COMPLETION OF THE PROJECT.
- SECTIONS AND DETAILS SHOWN ON ANY STRUCTURAL DRAWINGS SHALL BE CONSIDERED TYPICAL FOR SIMILAR CONDITIONS AS DETERMINED BY THE STRUCTURAL ENGINEER. THE STRUCTURAL ENGINEER RESERVES THE RIGHT TO INTERPRET DETAILS TO ADDRESS OTHER PROJECT CONDITIONS.
- PROVIDE AND INSTALL NECESSARY MATERIAL TO CONNECT ELEVATOR SUPPORT BEAMS AND GUIDE RAILS. LOCATION AND SIZE OF MEMBERS AND ANY INSERTS REQUIRED SHALL BE DETERMINED BY THE ELEVATOR MANUFACTURER.
- THE CONTRACTOR SHALL SUBMIT COMPLETE SHOP DRAWINGS FOR ALL PARTS OF THE WORK, INCLUDING DESCRIPTION OF SHORING AND CONSTRUCTION METHODS AND SEQUENCING WHERE APPLICABLE. NO PERFORMANCE OF THE WORK INCLUDING, BUT NOT LIMITED TO, DEMOLITION OF EXISTING STRUCTURE, OR FABRICATION OR ERECTION OF NEW STRUCTURAL ELEMENTS, SHALL COMMENCE WITHOUT REVIEW OF THE SHOP DRAWINGS BY THE ARCHITECT AND ENGINEER. SUBMIT HARD OR ELECTRONIC COPIES PER THE SPECIFICATIONS. FOR SHOP DRAWINGS AND SUBMITTALS REQUIRED, REFERENCE THE PROJECT SPECIFICATION.
- ALL APPLICABLE FEDERAL, STATE, AND MUNICIPAL REGULATIONS SHALL BE FOLLOWED, INCLUDING THE FEDERAL DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ACT.
- IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE (2012 EDITION), A STATEMENT OF SPECIAL INSPECTIONS IS REQUIRED AS A CONDITION FOR PERMIT ISSUANCE BY THE LOCAL CODE OFFICIAL. THIS STATEMENT SHALL INCLUDE A COMPLETE LIST OF MATERIALS AND WORK REQUIRING SPECIAL INSPECTIONS, THE INSPECTIONS TO BE PERFORMED AND A LIST OF THE INDIVIDUALS, APPROVED AGENCIES AND FIRMS INTENDED TO BE RETAINED FOR CONDUCTING SUCH INSPECTIONS.
- REFERENCE THE PROJECT SPECIFICATIONS FOR ALL TESTING REQUIREMENTS.

DESIGN LOADS

- BUILDING CODE:
INTERNATIONAL BUILDING CODE, 2012 EDITION (LATEST EDITION PER VA DIRECTIVE)
ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
- DESIGN FLOOR LIVE LOADS:
PARKING AND DRIVE ACCESS: 40 PSF (UNIFORM)
3000 LB (CONCENTRATED WHEEL LOAD)
STAIRWAYS AND LOBBIES: 100 PSF
VEHICLE BARRIERS: 6000 LBS (HORIZONTAL) AT 1'-6"
OR 2'-3" ABOVE RIDING SURFACE
- DESIGN SNOW LOAD:
GROUND SNOW LOAD (Pg): 45 PSF
SNOW EXPOSURE FACTOR (Ce): 1.0
SNOW LOAD IMPORTANCE FACTOR (Is): 1.0
SNOW LOAD THERMAL FACTOR (Ct): 1.2
FLAT ROOF SNOW LOAD (Pf): 38 PSF + DRIFT
- DESIGN WIND LOAD:
BASIC WIND SPEED: 128 MPH
WIND RISK CATEGORY: II
WIND EXPOSURE: B
INTERNAL PRESSURE COEFFICIENT: ±0.18
COMPONENTS & CLADDING PER ASCE 7-10
- DESIGN SEISMIC LOADS:
EQUIVALENT LATERAL FORCE PROCEDURE
SEISMIC OCCUPANCY CATEGORY: II
SEISMIC IMPORTANCE FACTOR (Is): 1.0
MAPPED SPECTRAL RESPONSE ACCELERATIONS:
Ss: 0.203
S1: 0.067
SEISMIC SITE CLASS: D
SPECTRAL RESPONSE COEFFICIENTS:
Sds: 0.217
Sd1: 0.108
SEISMIC DESIGN CATEGORY: B
BASIC STRUCTURAL SYSTEM: BEARING WALL SYSTEM
BASIC SEISMIC FORCE RESISTING SYSTEM:
INTERMEDIATE PRECAST SHEARWALLS
RESPONSE MODIFICATION FACTOR (R): 4.0
SEISMIC RESPONSE COEFFICIENT (Cs): 0.0543

FOUNDATION NOTES (SOIL SUPPORTED)

- FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH A REPORT ENTITLED "GEOTECHNICAL EVALUATION, AE RENOVATE PARKING GARAGE VAMC MR. VA MEDICAL CENTER, WEST ROXBURY HEALTHCARE SYSTEM, WEST ROXBURY, MASSACHUSETTS" PREPARED BY R.W. GILLESPIE & ASSOCIATES, INC., DATED JANUARY 8, 2015. THE RECOMMENDATIONS OF THE REPORT ARE PART OF THIS WORK. REFER TO THIS REPORT FOR SPECIFIC RECOMMENDATIONS.
- FOUNDATION DESIGN IS BASED ON SHALLOW SPREAD FOOTINGS BEARING ON IMPROVED NATIVE SOILS W/AN APPROVED GROUTED RAMMED AGGREGATE PIER (RAP) SYSTEM OR GEO CONCRETE COLUMNS (GEO INCLUSIONS) SYSTEM, AND NEW COMPACTED STRUCTURAL FILL EXTENDING TO IMPROVED NATIVE SOIL PER THE REQUIREMENTS OF THE GEOTECHNICAL REPORT. REFER TO THIS REPORT FOR SPECIFIC BEARING RECOMMENDATIONS.
- AT THE MINIMUM, COMPACTED FILL BELOW SPREAD FOOTINGS WILL NEED TO EXTEND TO THE LATERAL LIMITS DEFINED BY A PLANE PITCHED DOWN AND OUTWARD AT A SLOPE OF 1 HORIZONTAL TO 1 VERTICAL FROM A LINE LOCATED 2 FEET OUTSIDE OF AND ADJACENT TO THE PLAN LIMITS AT THE BOTTOM OF THE SPREAD FOOTING (REFER TO GETECH REPORT).
- ALLOWABLE BEARING CAPACITY 6,000 PSF
- EXTEND BOTTOM OF EXTERIOR FOOTINGS AT LEAST 4.0 FEET BUT NOT MORE THAN 5.0 FEET BELOW THE FINAL EXTERIOR GRADE FOR PROTECTION AGAINST FROST.
- NO FILL FOR BUILDING SUPPORT SHALL BE PLACED UNTIL UPGRADES HAVE BEEN OBSERVED AND APPROVED BY THE GEOTECHNICAL ENGINEER.
- REFERENCE THE GEOTECHNICAL REPORT FOR ALL EXCAVATION, BACKFILL, COMPACTION, CONSTRUCTION DEWATERING AND PERMANENT DRAINAGE REQUIREMENTS.
- SOILS EXPOSED AT THE BASE OF ALL SATISFACTORY FOUNDATION EXCAVATIONS SHOULD BE PROTECTED AGAINST ANY DETRIMENTAL CHANGE IN CONDITION, SUCH AS DISTURBANCE FROM RAIN OR FROST. SURFACE RUNOFF SHALL BE DRAINED AWAY FROM THE EXCAVATIONS AND NOT BE ALLOWED TO POND. FOUNDATION EXCAVATIONS SHALL BE ADEQUATELY PROTECTED FROM RAINFALL OR FREEZING CONDITIONS. GROUNDWATER SHOULD BE ANTICIPATED FOR EXCAVATIONS AND APPROPRIATE DEWATERING MEASURES SHALL BE EMPLOYED.
- EXCAVATIONS FOR BUILDING CONSTRUCTION SHALL BE IN ACCORDANCE WITH OSHA REQUIREMENTS. BRACED EXCAVATIONS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MASSACHUSETTS. DO NOT UNDERMINE EXISTING FOUNDATIONS OF ANY ADJACENT STRUCTURES. REFER TO THE GEOTECHNICAL REPORT FOR ADDITIONAL AND/OR MORE SPECIFIC REQUIREMENTS.
- SEE CIVIL DRAWING FOR ALL EXISTING UNDERGROUND UTILITIES.

CONCRETE NOTES

- CONCRETE WORK SHALL CONFORM TO "ACI MANUAL OF CONCRETE PRACTICE", LATEST EDITION. THIS PUBLICATION IS AVAILABLE THROUGH THE AMERICAN CONCRETE INSTITUTE (248) 848-3800.
- ALL CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 5,000 PSI, U.N.O. SLABS ON GRADE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 5,000 PSI, U.N.O. ADDITIONAL CONCRETE MIX PERFORMANCE DATA INCLUDING AIR CONTENT, WATER-CEMENT RATIO, AGGREGATE SIZE, SLUMP, ETC. HAS BEEN INCLUDED IN THE PROJECT SPECIFICATIONS. SEE THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- CONCRETE SHALL NOT BE PLACED IN WATER OR ON FROZEN GROUND.
- PROVIDE PVC SLEEVES WHERE PIPES PASS THROUGH EXTERIOR CONCRETE, OR SLABS.
- REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60 DEFORMED BARS AND SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH ACI 315, LATEST EDITION.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185 AND BE PROVIDED IN FLAT SHEETS.
- FIBER REINFORCEMENT SHALL BE TYPE III SYNTHETIC VIRGIN HOMOPOLYMER POLYPROPYLENE FIBERS CONFORMING TO ASTM C1116.
- MINIMUM CONCRETE PROTECTIVE COVERING FOR REINFORCEMENT, UNLESS NOTED OTHERWISE, SHALL BE AS FOLLOWS:
A.SURFACES CAST AGAINST AND PERMANENTLY IN CONTACT WITH EARTH, 3.0"
B.FORMED SURFACES IN CONTACT WITH EARTH OR EXPOSED TO WEATHER
#5 BARS, 5/8" DIAMETER WIRE AND SMALLER, 1.5"
#6 THROUGH #11 BARS, 2.0"
C.SURFACES NOT IN CONTACT WITH EARTH OR EXPOSED TO WEATHER
WALLS, SLABS, JOISTS #11 BARS AND SMALLER, 1.0"
BEAMS, GIRDERS, AND COLUMNS: ALL REINFORCEMENT, 1.5"
- REINFORCEMENT SHALL BE CONTINUOUS AROUND CORNERS AND AT INTERSECTIONS. PROVIDE LAP SPICES OR HOOKED BARS AT DISCONTINUOUS ENDS. PROVIDE TENSION LAP SPICES PER THE SCHEDULE THIS DRAWING, FOR ALL REINFORCING UNLESS OTHERWISE SHOWN ON PLAN.
- WELDING OF REINFORCEMENT IS NOT PERMITTED
- FOR ALL OPENINGS IN CONCRETE WALLS AND SLABS, PROVIDE SUPPLEMENTAL REINFORCING AROUND OPENING AS SHOWN ON THE CONTRACT DOCUMENTS. TYPICAL DETAILS, NO PENETRATIONS SHALL BE MADE THROUGH FOOTINGS WITHOUT WRITTEN PERMISSION FROM ENGINEER.
- CONSTRUCTION JOINTS SHOWN ON DRAWINGS ARE MANDATORY. OMISSIONS, ADDITIONS, OR CHANGES SHALL NOT BE MADE EXCEPT WITH THE SUBMITTAL OF A WRITTEN REQUEST TOGETHER WITH DRAWINGS OF THE PROPOSED JOINT LOCATIONS FOR APPROVAL OF THE STRUCTURAL ENGINEER. WHERE CONSTRUCTION JOINTS ARE NOT SHOWN, OR WHEN ALTERNATE LOCATIONS ARE PROPOSED, DRAWINGS SHOWING LOCATION OF CONSTRUCTION AND CONTROL JOINTS AND CONCRETE PLACING SEQUENCE SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO PREPARATION OF THE REINFORCEMENT SHOP DRAWINGS. CONCRETE SHALL BE PLACED WITHOUT HORIZONTAL CONSTRUCTION JOINTS EXCEPT WHERE SHOWN OR NOTED. VERTICAL CONSTRUCTION JOINTS AND STOPS IN CONCRETE BEAMS/ GRADE BEAMS SHALL BE MADE AT MIDSPAN OR AT POINTS OF MINIMUM SHEAR, UNLESS NOTED OTHERWISE.
- SPACING OF CONSTRUCTION JOINTS, UNLESS NOTED OTHERWISE SHALL BE AS FOLLOWS:
A.FOOTINGS AND WALLS
MAX LENGTH 40'-0" OR 15'-0" FROM ANY CORNER**
B.SLABS CON GRADE
SEE FOUNDATION PLAN
** EXCEED ONLY WHERE INTERMEDIATE CONTRACTION JOINTS ARE PROVIDED. MINIMUM OF 72 HOURS SHALL ELAPSE BETWEEN ADJACENT CONCRETE PLACEMENTS.
- ANCHOR RODS SHALL BE HEADED RODS CONFORMING TO ASTM F1554, GRADE 36 KSI WELDABLE STEEL, UNLESS NOTED OTHERWISE ON DRAWINGS. ANCHOR RODS SHALL BE HOT-DIPPED GALVANIZED, U.N.O.
- ALL GROUT BENEATH BASE PLATES & BEARING PLATES SHALL BE "5-STAR" 5000-PSI NON-SHRINK GROUT BY U.S. GROUT CORP. OR APPROVED EQUIVALENT.
- SLAB THICKNESSES INDICATED ON THE DRAWINGS ARE MINIMUMS. PROVIDE SUFFICIENT CONCRETE TO ACCOUNT FOR STRUCTURE DEFLECTION, SUBGRADE FLUCTUATIONS, AND TO OBTAIN THE SPECIFIED SLAB ELEVATION AT THE FLATNESS AND LEVELNESS INDICATED.
- INSTALLATION OF REINFORCEMENT SHALL BE COMPLETED AT LEAST 24 HOURS PRIOR TO THE SCHEDULED CONCRETE PLACEMENT. NOTIFY ARCHITECT AND STRUCTURAL ENGINEER OF COMPLETION AT LEAST 24 HOURS PRIOR TO THE SCHEDULED COMPLETION OF THE INSTALLATION OF REINFORCEMENT.
- ALL ITEMS TO BE EMBEDDED INTO CONCRETE SHALL BE INSTALLED PRIOR TO PLACEMENT OF CONCRETE. PROVIDE ADDITIONAL REINFORCEMENT AND/OR TEMPLATES AS REQUIRED TO ENSURE THE CORRECT POSITIONS OF EMBEDMENTS. "WET SETTING" OF EMBEDMENTS INTO CONCRETE IS STRICTLY PROHIBITED. EMBEDMENTS INCLUDE, BUT NOT BY LIMITATION, REINFORCEMENT, REINFORCING DOWELS, EMBEDDED PLATES, ANCHOR RODS, ANCHOR INSERTS, SLEEVES, LOAD TRANSFER PLATES, DIAMOND DOWELS, AND SHELF BULK HEADS.

PRECAST CONCRETE NOTES

GENERAL

- ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE FOLLOWING: ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", PCI MNL-116 "MANUAL FOR QUALITY CONTROL FOR PLANTS AND PRODUCTION OF PRECAST AND PRESTRESSED CONCRETE PRODUCTS", PCI MNL-120 "DESIGN HANDBOOK-PRECAST AND PRESTRESSED CONCRETE", AND ACI 362.1R "GUIDE FOR DESIGN OF DURABLE CONCRETE PARKING STRUCTURES".
- REFER TO THE DRAWINGS AND SPECIFICATIONS FOR SPECIAL FINISHES, COLORS, AND DETAILING REQUIREMENTS FOR THE EXTERIOR EXPOSED STRUCTURAL ELEMENTS, OR OTHER ELEMENTS DESIGNATED AS ARCHITECTURALLY FINISHED PRECAST STRUCTURAL CONCRETE.
- THE CONTRACTOR MAY PROPOSE MODIFICATIONS OR CHANGES TO THE ELEMENT CONFIGURATION, REINFORCING AND/OR CONNECTION DETAILS FROM THOSE SHOWN IN THESE DRAWINGS. ACCEPTANCE OF SUCH MODIFICATIONS IS AT THE SOLE DISCRETION OF THE ENGINEER OF RECORD. THE CONTRACTOR SHALL SUBMIT WITH HIS PROPOSAL ALL INFORMATION REQUESTED BY THE ENGINEER, INCLUDING:
A. FULL DESCRIPTION OF PRODUCTS AND INSTALLATION, INCLUDING CERTIFICATES, IF APPROPRIATE.
B. IF A STRUCTURAL CHANGE IS INVOLVED, STRUCTURAL REDESIGN BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE OF MASSACHUSETTS.
C. ANY ADDITIONAL INFORMATION AS REQUESTED.

DESIGN

- THE PARKING STRUCTURE CONTRACT DRAWINGS ARE BASED ON PERFORMANCE TYPE DESIGN FOR THE PRECAST SUPERSTRUCTURE. AN INTEGRAL PART OF THIS PROJECT IS THE PREPARATION OF FINAL DESIGN DRAWINGS, DESIGN CALCULATIONS AND SHOP DRAWINGS NECESSARY FOR FABRICATION AND CONSTRUCTION OF ALL PRECAST ELEMENTS, CONNECTIONS AND ACCESSORIES IN ACCORDANCE WITH ALL CODES AND DESIGN REQUIREMENTS. SEE SPECIFICATION SECTION 034133 FOR ADDITIONAL REQUIREMENTS.
- PRECAST STRUCTURAL ELEMENTS AND CONNECTIONS SHALL BE DESIGNED FOR THE LOADS AND CRITERIA PROVIDED ON THIS DWG, AS WELL AS ALL ADDITIONAL FORCES AND STRESSES INDUCED DURING FABRICATION, STRIPPING, YARD HANDLING, TRANSPORTATION AND ERECTION. PRECAST ELEMENT AND CONNECTION DESIGN SHALL CONFORM TO PCI MNL-120, LATEST EDITION.
- DESIGN OF THE PRECAST SUPERSTRUCTURE SHALL ACCOUNT FOR THE BASE BID PHASE 1 STRUCTURE (ALL LEVELS CONSTRUCTED). SPICED CONNECTIONS SHALL BE PROVIDED FOR VERTICAL ELEMENTS PER THESE DRAWINGS IF GARAGE LEVELS ARE ELIMINATED BY DEDUCT ALTERNATES AND ARE TO BE PROVIDED DURING FUTURE CONSTRUCTION PHASES (REFER TO ARCH DRAWINGS FOR ALL PHASING PLANS).

FABRICATION AND ERECTION

- MATERIAL PROPERTIES
A. CONCRETE: f'c=5000 PSI AT 28 DAYS (UNLESS HIGHER STRENGTH ACE REQD BY DESIGN)
f'ci=3500 PSI AT RELEASE OF PRESTRESS
B. PRESTRESSING STEEL: 270 KSI LOW RELAXATION STRANDS.
C. MILD STEEL: SEE CONCRETE NOTES.
D. WELDED WIRE FABRIC: SEE CONCRETE NOTES.
E. STEEL EMBEDMENTS AND CONNECTIONS: ALL EXPOSED CONNECTIONS SHALL BE HOT-DIPPED GALVANIZED U.N.O. (REFER TO STRUCTURAL STEEL NOTES FOR ADDITIONAL INFORMATION).
F. GROUT: SEE CONCRETE NOTES.
G. BEARING PADS: NEOPRENE OR RANDOM FIBER REINFORCED.
H. ANCHOR BOLTS: SEE CONCRETE NOTES.
J. ALL CONNECTIONS IN HORIZONTAL DOUBLE TEE JOINTS SHALL BE STAINLESS STEEL.
- UNLESS OTHERWISE NOTED ON THE CONTRACT DOCUMENTS, MANUFACTURING TOLERANCES AND ERECTION TOLERANCES SHALL CONFORM TO PCI MNL-120 AND PCI MNL-135 TOLERANCE MANUAL FOR PRECAST AND PRESTRESSED CONSTRUCTION, LATEST EDITION.
- THE PRECAST MANUFACTURER SHALL BE PCI CERTIFIED CA-COMMERCIAL PRODUCTS WITH AN ARCHITECTURAL FINISH.
- THE PRECAST ERECTOR SHALL BE PCI CERTIFIED S2-COMPLEX STRUCTURAL SYSTEMS.
- THE PRECAST ERECTOR SHALL PROVIDE ALL TEMPORARY GUYING AND BRACING AS REQUIRED TO PLUMB AND STABILIZE STRUCTURE DURING CONSTRUCTION. TEMPORARY GUYING AND BRACING SHALL REMAIN IN PLACE UNTIL ALL STRUCTURAL MEMBERS AND CONNECTIONS ARE INSTALLED.
- THE PRECAST MANUFACTURER SHALL FURNISH, INSTALL AND WARRANTY ALL PRECAST CONCRETE ELEMENTS, ALL CONNECTING AND SUPPORTING HARDWARE, GROUT, SEALANT AND OTHER WORK REQUIRED TO PROVIDE A FUNCTIONAL PRECAST CONCRETE STRUCTURE.
- PRECAST CONCRETE ELEMENTS SHALL BE HANDLED WITH CARE DURING ALL PHASES OF MANUFACTURING, SHIPPING AND ERECTION. PROVIDE ADDITIONAL REINFORCEMENT IF REQUIRED FOR HANDLING PROCEDURES. DEFECTIVE OR DAMAGED ELEMENTS WILL BE REPLACED BY THE PRECASTER, OR REPAIRED BY THE PRECAST MANUFACTURER IF PERMITTED BY THE ENGINEER OF RECORD.
- PROVIDE ALL OPENINGS, REVEALS, DRIPS, BLOCKOUTS, INSERTS, ETC. CAST INTO PRECAST ACCORDING TO THE CONTRACT DOCUMENTS.
- UNLESS OTHERWISE NOTED, ALL OPENINGS IN PRECAST MEMBERS SHOWN ON THESE DRAWINGS SHALL BE CAST-IN DURING FABRICATION.
- THE EDGES OF FLOOR ELEMENTS SHALL BE PREPARED ACCORDING TO THE DETAILS ON THESE DRAWINGS TO RECEIVE THE APPROVED JOINT SEALANT SYSTEM.
- INSTALL EXPANSION JOINTS AFTER ALL GUYING AND BRACING HAS BEEN REMOVED AND COLUMN PLUMBNESS HAS BEEN MEASURED TO BE WITHIN TOLERANCE.
- THE PRECAST CONTRACTOR SHALL CLEAN ALL SURFACES OF THE PRECAST WORK AS NECESSARY TO REMOVE DIRT, DEBRIS AND STAINS, INCLUDING WELD STAINS, AFTER ERECTION IS COMPLETE.

SUBMITTALS

- COMPLETE SHOP DRAWINGS AND DESIGN CALCULATIONS STAMPED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MASSACHUSETTS SHALL BE SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD FOR REVIEW PRIOR TO COMMENCEMENT OF THAT PORTION OF THE WORK.
- DESIGN CALCULATIONS SHALL INCLUDE THE FOLLOWING:
A. DESIGN OF ALL PRECAST ELEMENTS, INCLUDING DTs, BEAMS, SPANDRELS, COLUMNS AND WALLS. DESIGN SHALL INCLUDE ALL GRAVITY, WIND AND SEISMIC LOADS AS APPLICABLE.
B. DESIGN OF ALL PRECAST LATERAL FORCE RESISTING SYSTEMS FOR WIND AND SEISMIC LOADS.
C. DESIGN OF PRECAST ELEMENTS FOR FORCES DUE TO TEMPERATURE VARIATIONS AND SHRINKAGE, IF APPLICABLE.
D. PRECAST CONNECTION DESIGN FOR ALL APPLICABLE FORCES.
- PRECASTER SHALL PROVIDE A SUBMITTAL INDICATING ALL FINAL LOADS IMPOSED ON THE FOUNDATIONS FROM THE PRECAST SUPERSTRUCTURE. FOUNDATION DESIGN SHALL BE CONSIDERED PRELIMINARY UNTIL SUCH LOADS HAVE BEEN VERIFIED BY THE ENGINEER OF RECORD.

STRUCTURAL STEEL NOTES

- STRUCTURAL STEEL FABRICATION, ERECTION, AND CONNECTION DESIGN SHALL CONFORM TO AISC "SPECIFICATION FOR THE DESIGN FABRICATIONS, AND ERECTION OF STRUCTURAL STEEL", LATEST EDITION, AND THE "CODE OF STANDARD PRACTICE", LATEST EDITION.
- STRUCTURAL STEEL: STEEL PLATES, SHAPES, AND BARS, CONFORM TO ASTM A36 UNLESS NOTED OTHER WISE (U.N.O.). STRUCTURAL STEEL SHAPES DESIGNATED ON THE DRAWINGS FOR WIDE-FLANGE SECTIONS: ASTM A992 (ASTM A572 GRADE 50 WITH SPECIAL REQUIREMENTS PER AISC TECHNICAL BULLETIN #3 DATED MARCH, 1997)
- STRUCTURAL TUBING: CONFORM TO ASTM A500 GRADE B46 KSI.
- FIELD CONNECTIONS SHALL BE BOLTED USING ASTM A325N HIGH STRENGTH BOLTS (U.N.O.) EXCEPT WHERE SLIP CRITICAL CONNECTIONS ARE REQUIRED AND NOTED BY A325 (SC) ON THE DRAWINGS. PROVIDE SLIP CRITICAL (SC) CONNECTIONS AT ALL MOMENT CONNECTIONS, BRACED FRAMES, RELIEVING ANGLES AND AS OTHERWISE NOTED. USE A490 BOLTS WHERE INDICATED.
- WHERE WELDING IS INDICATED, ALL WELDING SHALL CONFORM TO AWS D1.1-LATEST EDITION. ELECTRODES SHALL CONFORM TO AWS A5.1 E70XX SERIES WITH PROPER ROD TO PRODUCE OPTIMUM WELD (LOW HYDROGEN)
- SEE CONCRETE NOTES AND DRAWINGS FOR ANCHOR BOLT INFORMATION, TYP.
- PROVIDE ALL MISCELLANEOUS ANGLES, PLATES, ANCHOR BLOTS ETC. SHOWN ON ARCHITECTURAL DRAWINGS FOR SUPPORT OF BLOCKING, PARAPETS, FINISHES, ETC. COORDINATE WITH MISCELLANEOUS METAL FABRICATOR TO ENSURE COMPLETE COVERAGE OF ALL ITEMS.

METAL DECK

- THE METAL ROOF DECK SHALL BE FORMED OF STEEL SHEETS CONFORMING TO THE FOLLOWING STANDARDS:
A. ROOF DECKING: ASTM A1008, GRADE C, D OR ASTM A653, STRUCTURAL QUALITY, GRADE 33 OR HIGHER
- ROOF DECK SHALL BE AS NOTED ON THE DRAWINGS (OR EQUIVALENT).
- FOR DECK ATTACHMENTS, PENETRATIONS AND ACCESSORIES REFER TO SPECIFICATIONS.

MASONRY NOTES

- ALL MASONRY CONSTRUCTION SHALL CONFORM TO ACI 530.1-LATEST.
- ALL CONCRETE MASONRY UNITS SHALL BE ASTM C90 GRADE N, TYPE I STANDARD WEIGHT BLOCKS INCLUDING STRETCHERS AND CORNER BLOCKS. MINIMUM PRISM STRENGTH OF BLOCK SHALL BE FM = 1500 PSI IN 28 DAYS.
- MORTAR SHALL CONFORM TO ASTM SPECIFICATION C270, TYPE M OR S
- GROUT SHALL CONFORM TO ASTM-C476
- REINFORCING FOR BOND BEAMS, LINTEL BLOCKS AND VERTICAL WALL REINFORCING SHALL BE BILLET STEEL CONFORMING TO ASTM A615, GRADE 60
- HORIZONTAL JOINT REINFORCING SHALL BE DWR-O-WAL TRUSS DESIGN. STANDARD CLASS WILL GALVANIZED, OR APPROVED EQUIVALENT, WITH 3/16" DIAMETER SIDE RODS AND 9 GAUGE CROSS TIES, U.N.O. REINFORCING SHALL BE PLACED IN MASONRY WALLS AT EVERY SECOND BLOCK COURSE.
- CONCRETE MASONRY UNITS SHALL BE LAID IN RUNNING BOND UNLESS OTHERWISE NOTED. PROVIDE FULL MORTAR COVERAGE ON ALL WEBS AND FACE SHELLS. PROVIDE CORNER BLOCKS AND END BLOCKS TO FINISH ALL 90 DEGREE CORNERS AND WALL OPENINGS.
- PROVIDE LINTELS AT WALL PENETRATIONS AS SHOWN IN THE LINTEL SCHEDULE.
- STANDARD LAP LENGTH OF GRADE 60 MASONRY REINFORCING BARS SHALL BE 48 BAR DIAMETERS FOR BARS #5 AND SMALLER. PROVIDE MECHANICAL SPICES RATED FOR 125% THE BAR YIELD STRENGTH FOR BARS #6 AND LARGER. PROVIDE CORNER BARS TO MATCH HORIZONTAL REINFORCEMENT.
- CELLS TO BE GROUTED SHALL BE 2-CELL BLOCK. ALIGN CELLS TO MAINTAIN A CLEAR UNOBSTRUCTED, CONTINUOUS VERTICAL CHASE. CELLS MUST BE KEPT CLEAN OF PROTRUSIONS OR FINS OF MORTAR. FILL CELLS OF MASONRY UNITS AND WALL CAVITIES WHERE INDICATED WITH 2500 PSI GROUT. MAXIMUM GROUT LIFT WITHOUT CLEAN-OUTS SHALL BE 4'-0". HIGH LIFT GROUTING SHALL CONFORM TO CODE REQUIREMENTS WITH A MINIMUM CEMENT CONTENT OF 8 SACKS PER CUBIC YARD. SUPPORT ALL VERTICAL BARS IN CENTER OF GROUTED CELLS WITH VERTICAL BAR POSTIONER.
- FIELD PENETRATIONS THROUGH BLOCK WALLS SHALL NOT BE MADE THROUGH BOND BEAMS, LINTELS OR GROUTED CELLS.

CONSULTANTS:

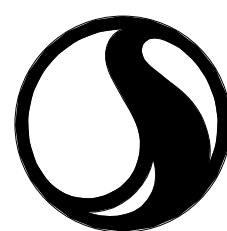
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Fax: (207) 883-3376



STRUCTURAL ENGINEERS
75 York Street, Portland, Maine 04101
207.879.1838 ■ beckerstructural.com

Drawing Title
STRUCTURAL - GENERAL NOTES

Approved: Project Director

Project Title
WEST ROXBURY GARAGE

Location
VAMC - West Roxbury, MA 02132

Date
03/31/2016

Checked
CGW

Drawn
MSK

Project Number
523-400

Building Number
?

Drawing Number
SS001

Dwg: 37

Office of
Facilities
Management

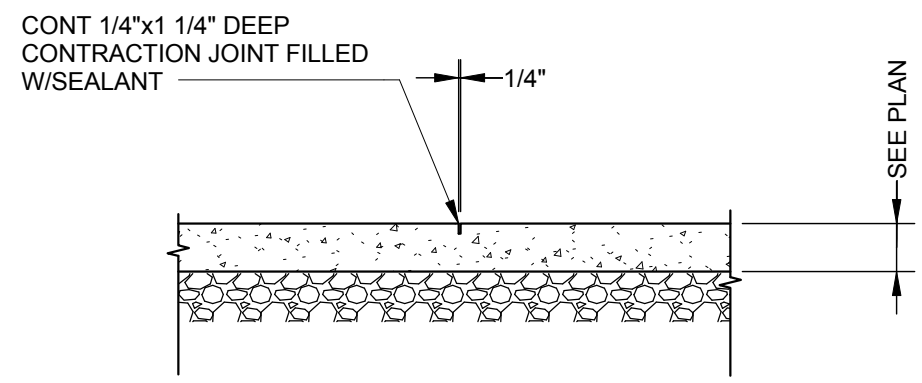


100% BID DOCUMENTS

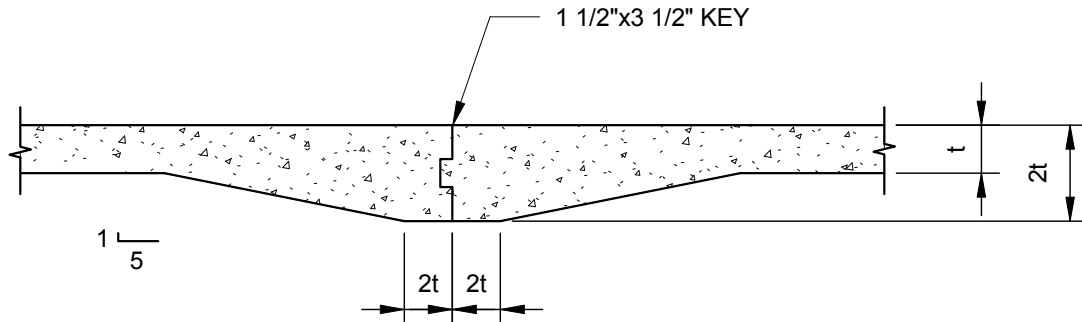
1
2
3
4
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6
7
8
9

A
B
C
D
E
F

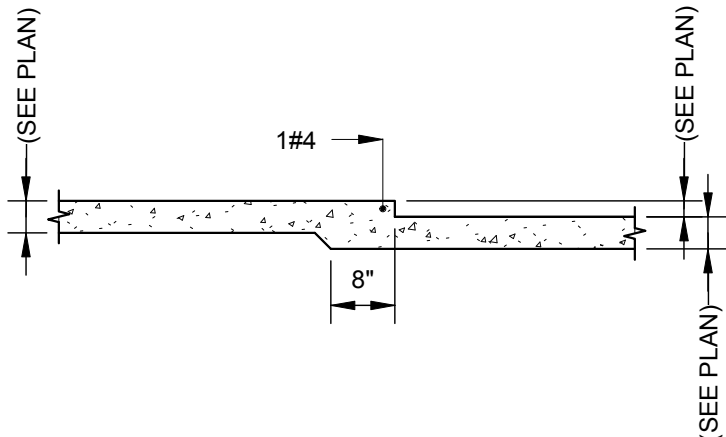
three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot



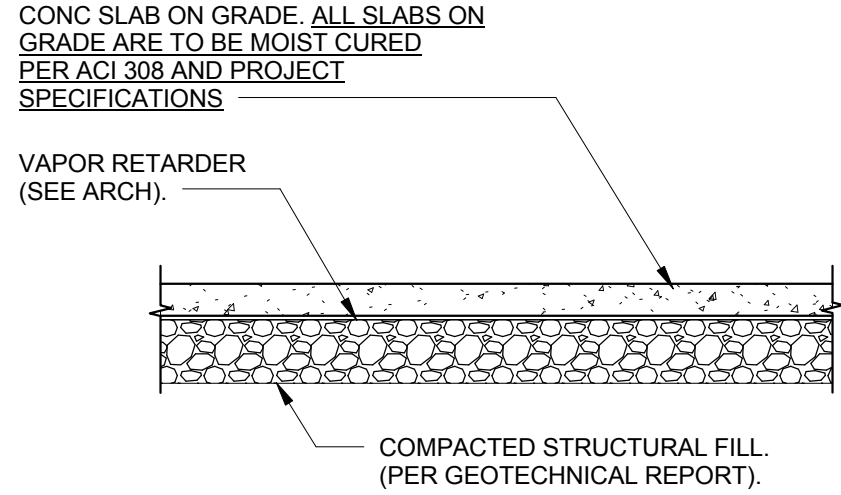
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N.T.S.



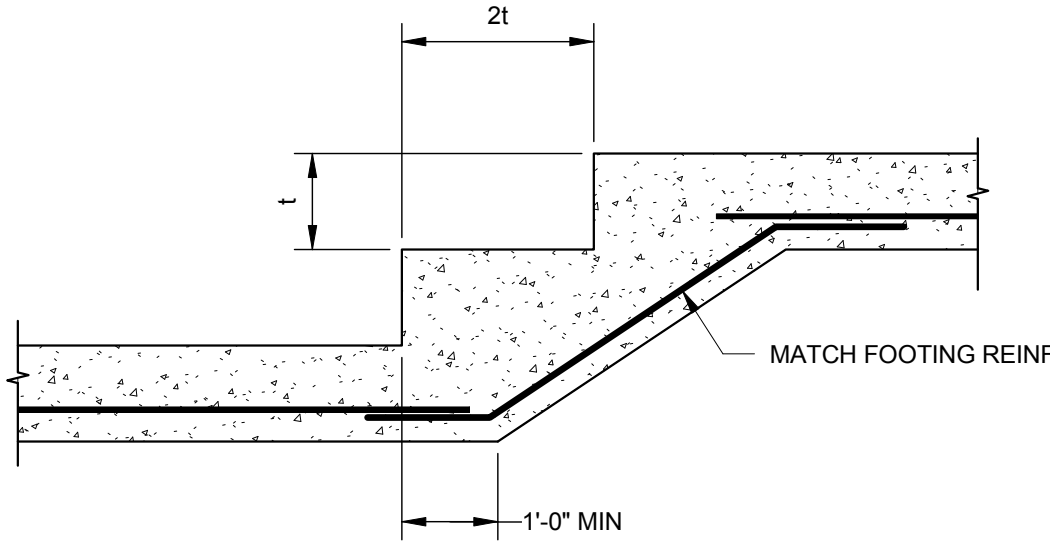
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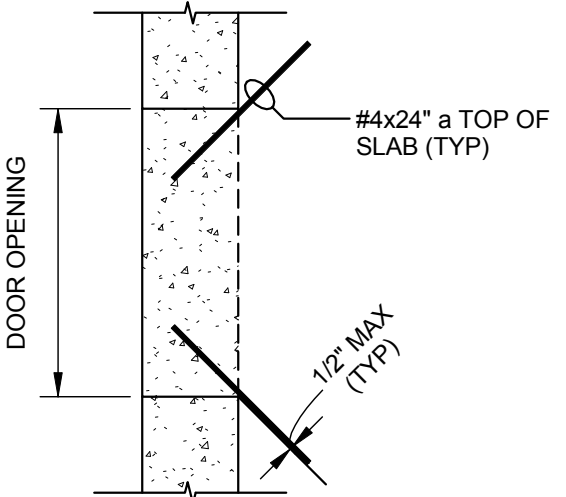
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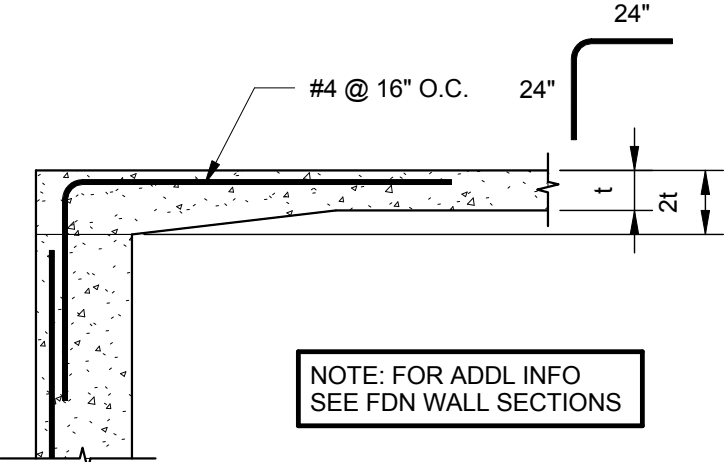
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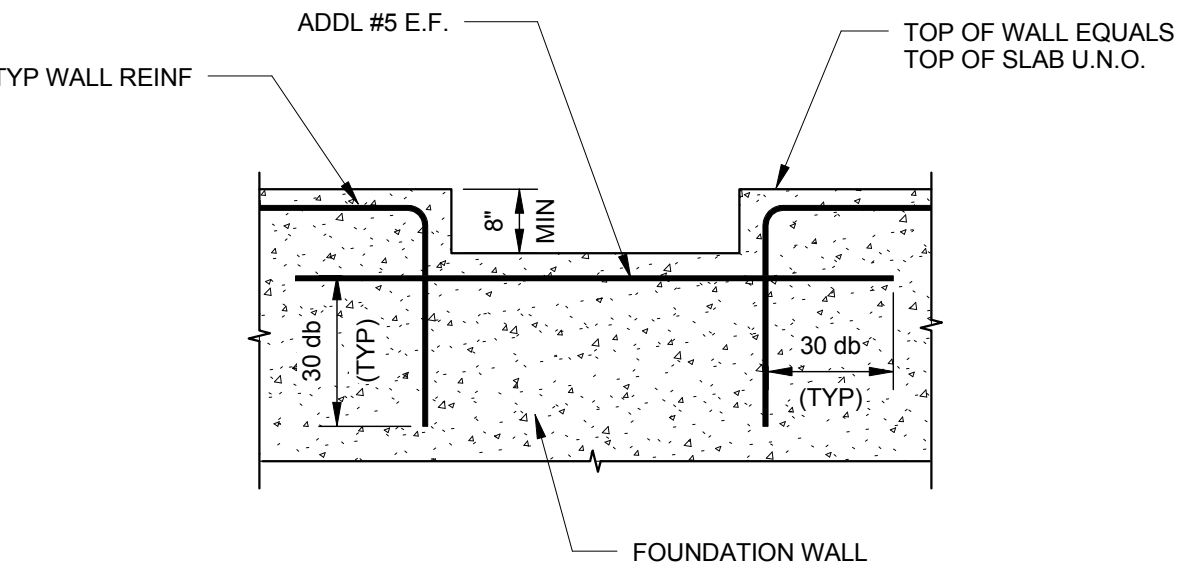
TYP STEP FOOTING DETAIL
N.T.S.



TYP SLAB CORNER DETAIL @ DOOR
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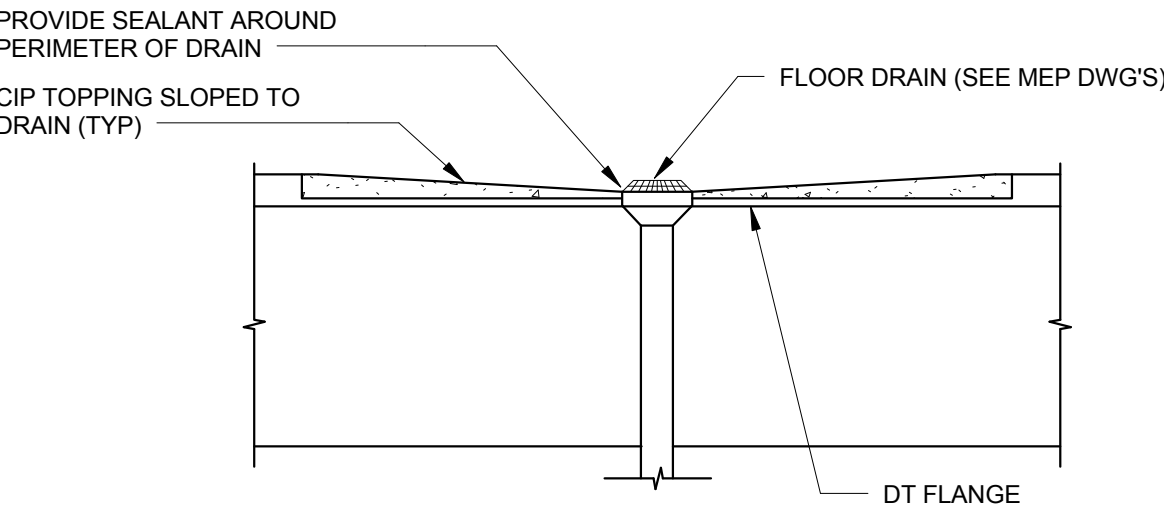


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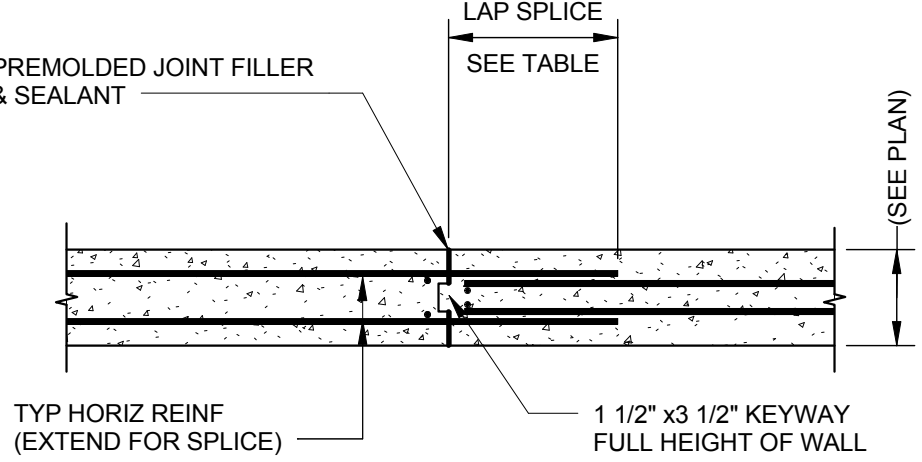


TYP WALL DEPRESSION DETAIL @ DOOR
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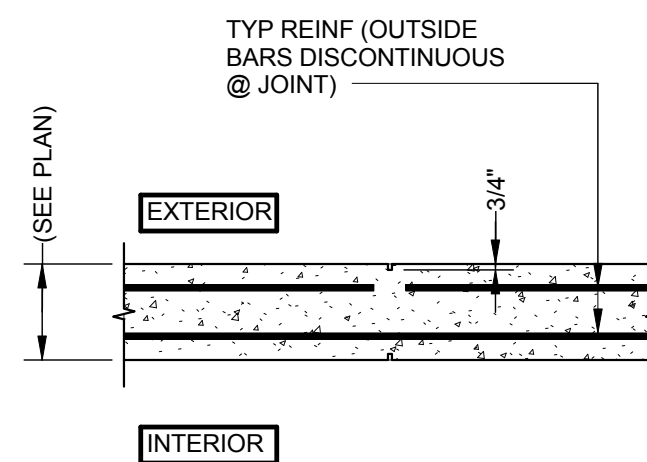
REBAR LAP SPLICE TABLE	
BAR SIZE	LAP LENGTH
#3	18"
#4	24"
#5	28"
#6	34"
#7	48"
#8	56"
#9	62"
#10	72"
#11	84"



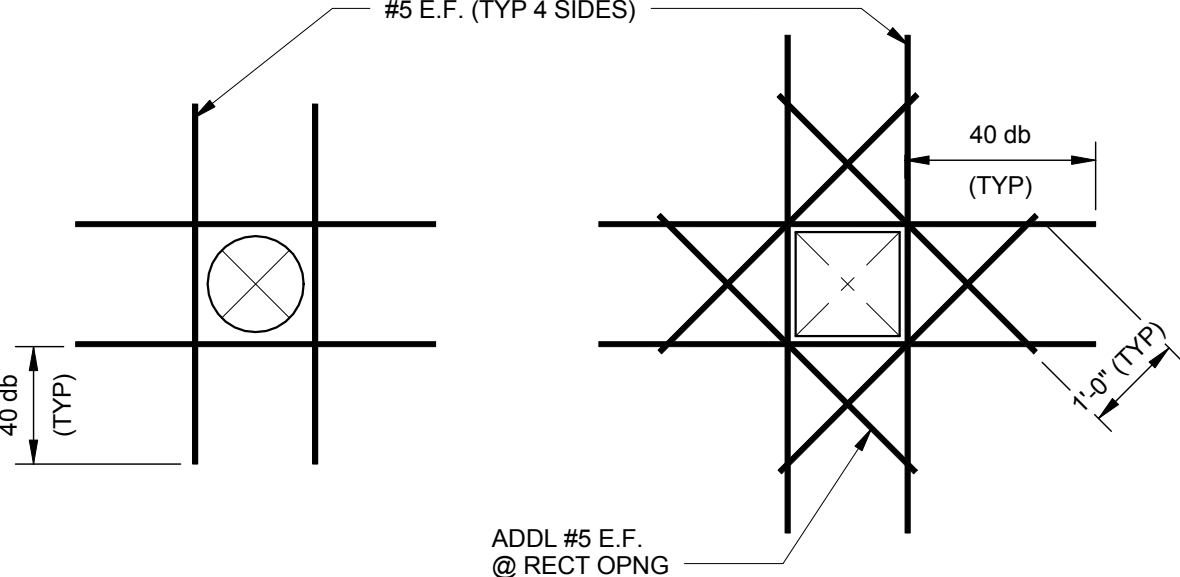
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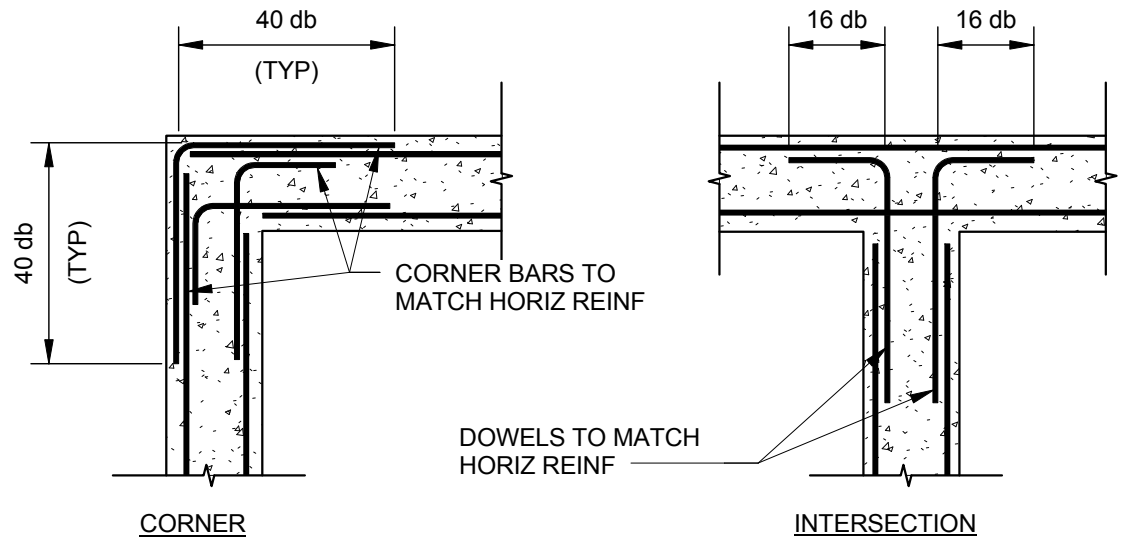
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N.T.S.



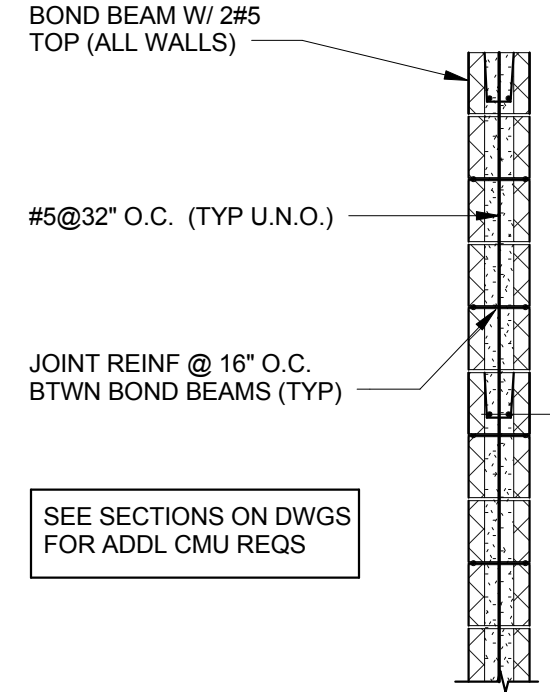
TYP CONTROL JOINT IN WALL
N.T.S.



TYP OPENING IN WALL OR SLAB DETAIL
N.T.S.

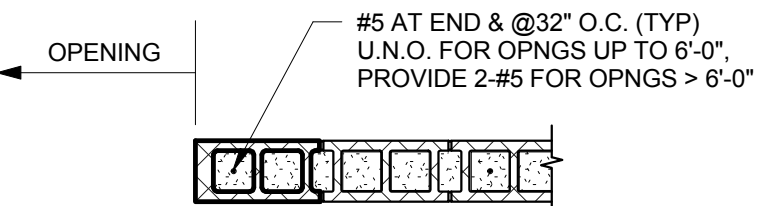


TYP WALL REINF DETAILS
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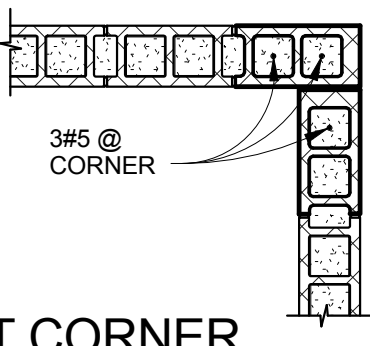


TYP CMU WALL SECTION (U.N.O.)
N.T.S.

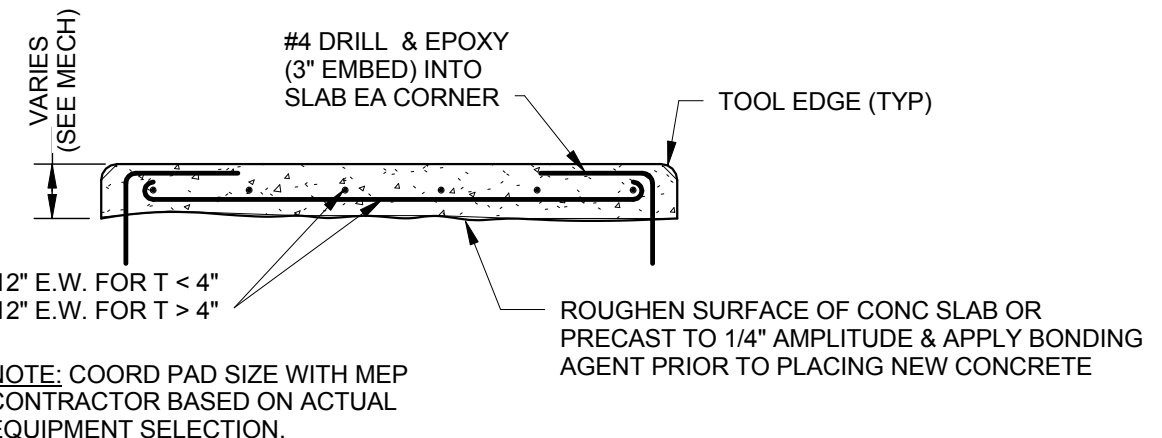
CMU LINTEL SCHEDULE			
CLEAR SPAN	WIDTH	DEPTH	REINF
< 6'-0"	8"	8"	2#5 CONT
6'-0" - 12'-0"	8"	16"	2#5 CONT



TYP PLAN DETAILS AT CMU WALLS U.N.O.
N.T.S.



TYP PLAN DETAILS AT CMU WALLS U.N.O.
N.T.S.



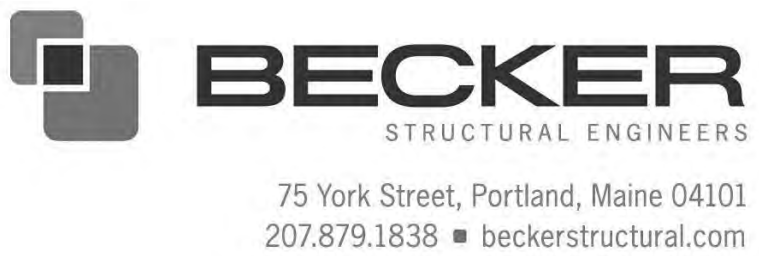
TYP EQUIPMENT HOUSEKEEPING PAD DETAIL
N.T.S.

CONSULTANTS:

SPECIFICATIONS:
Lowell Specifications
34 Marc Avenue
Topsham, ME 04802
Tel: (207) 406-4001
Email: keith@lowellspecs.com



ARCHITECT/ENGINEERS:



Drawing Title
STRUCTURAL-TYPICAL CONCRETE SECTIONS
AND DETAILS

Approved: Project Director

Project Title
WEST ROXBURY GARAGE

Location
VAMC - West Roxbury, MA 02132

Date
03/31/2016

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CGW

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MSK

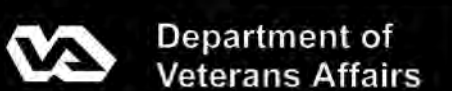
Project Number
523-400

Building Number
?

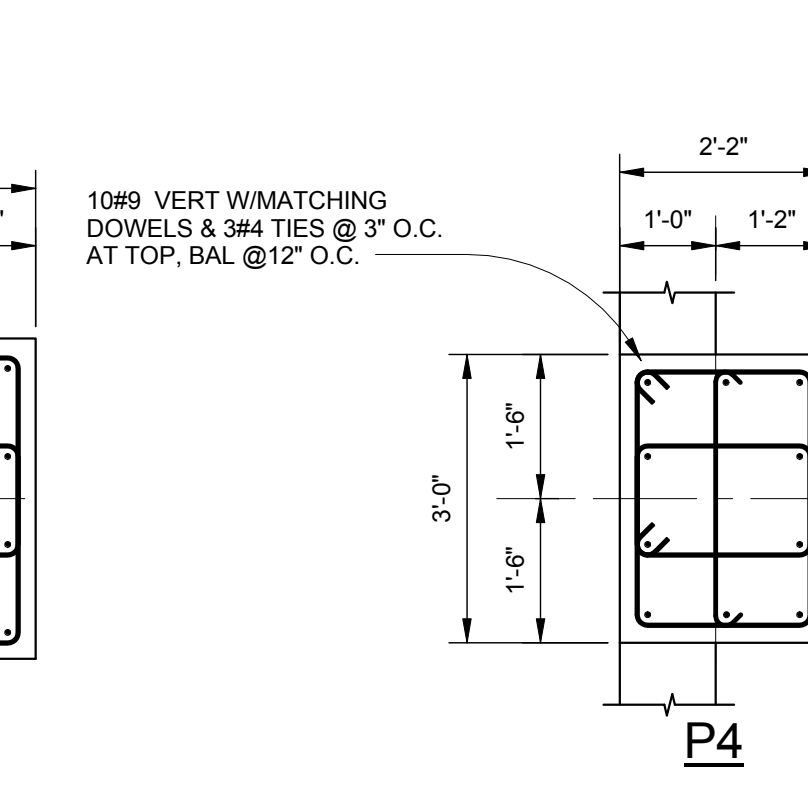
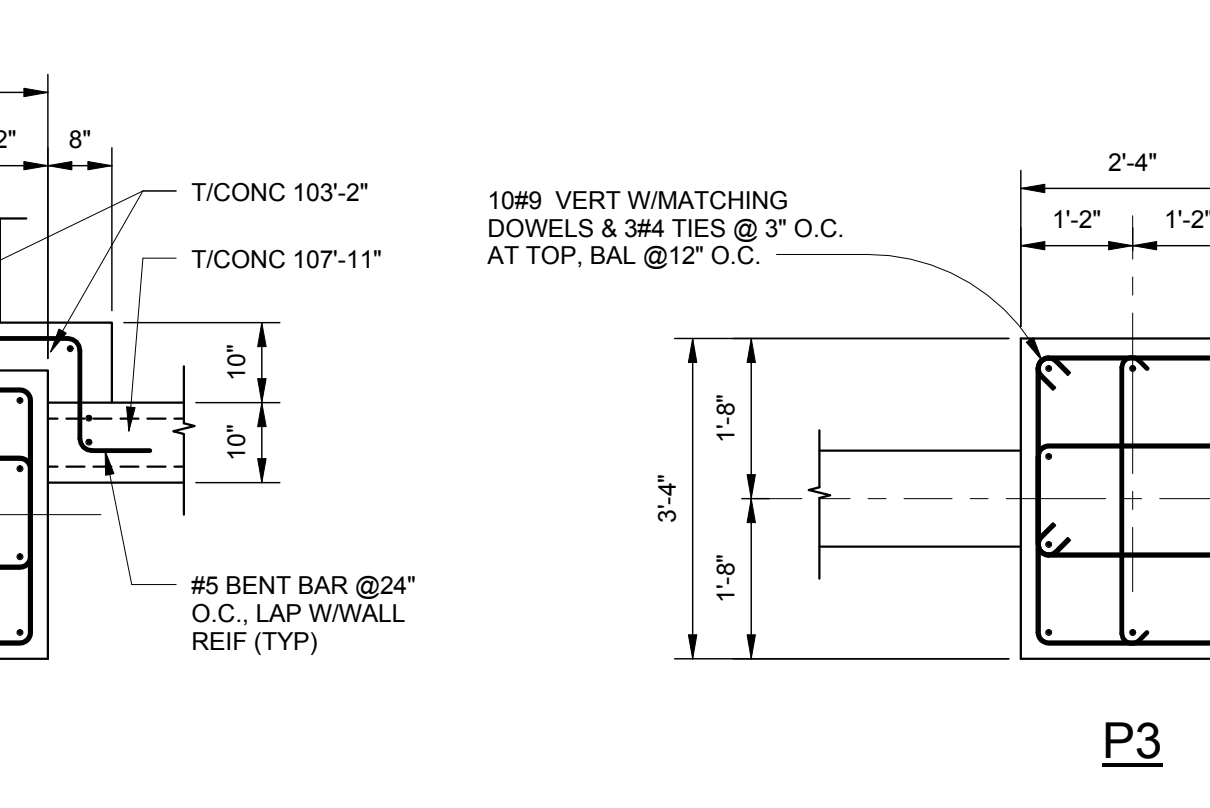
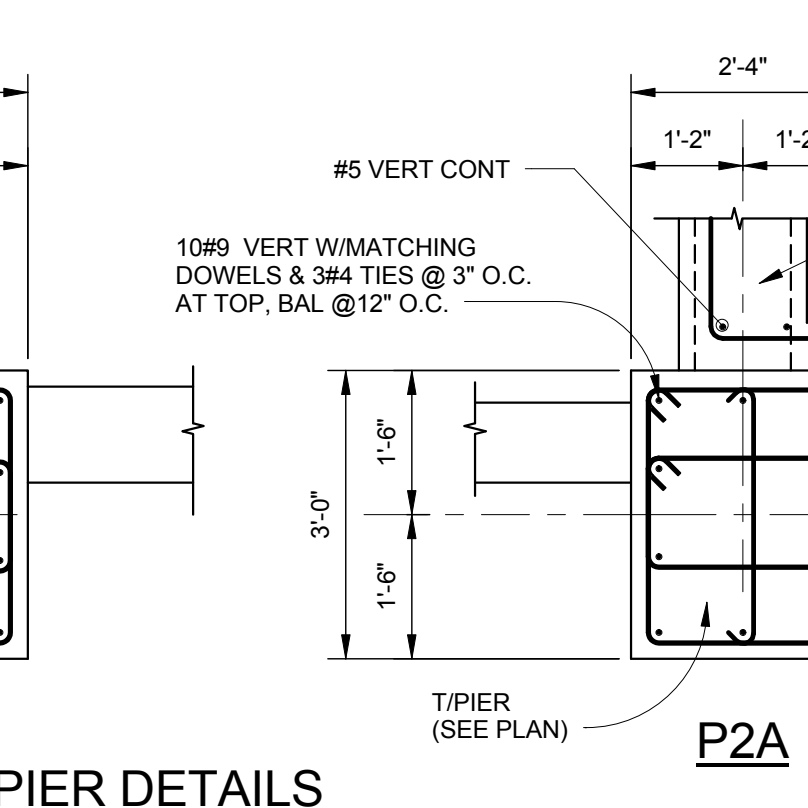
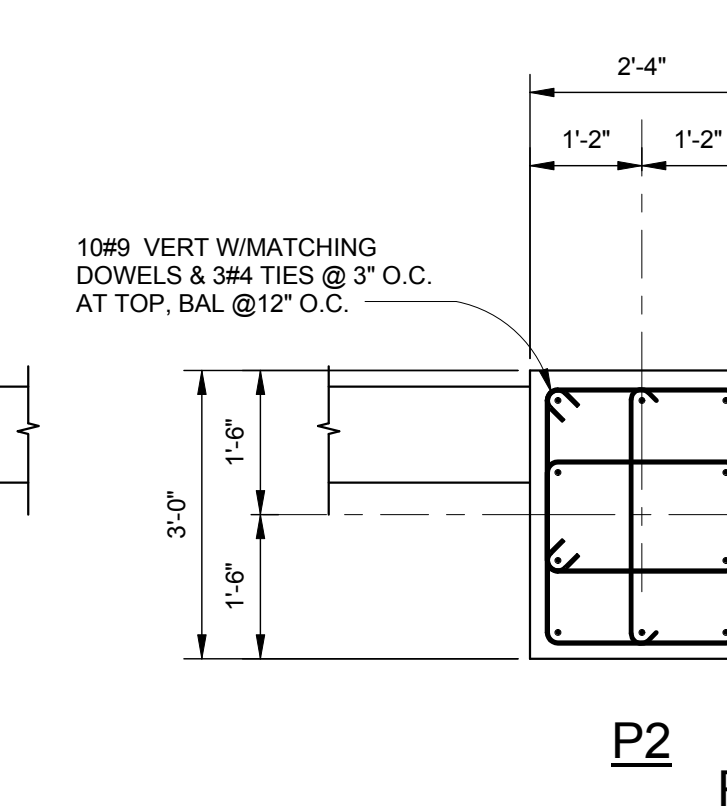
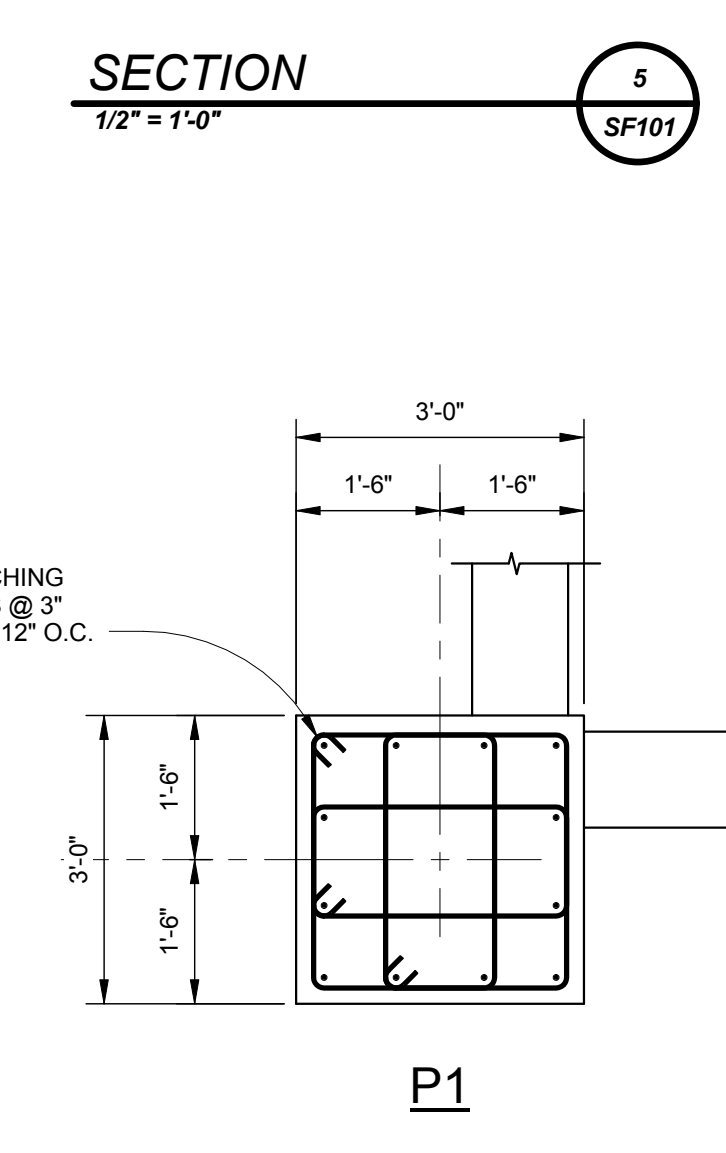
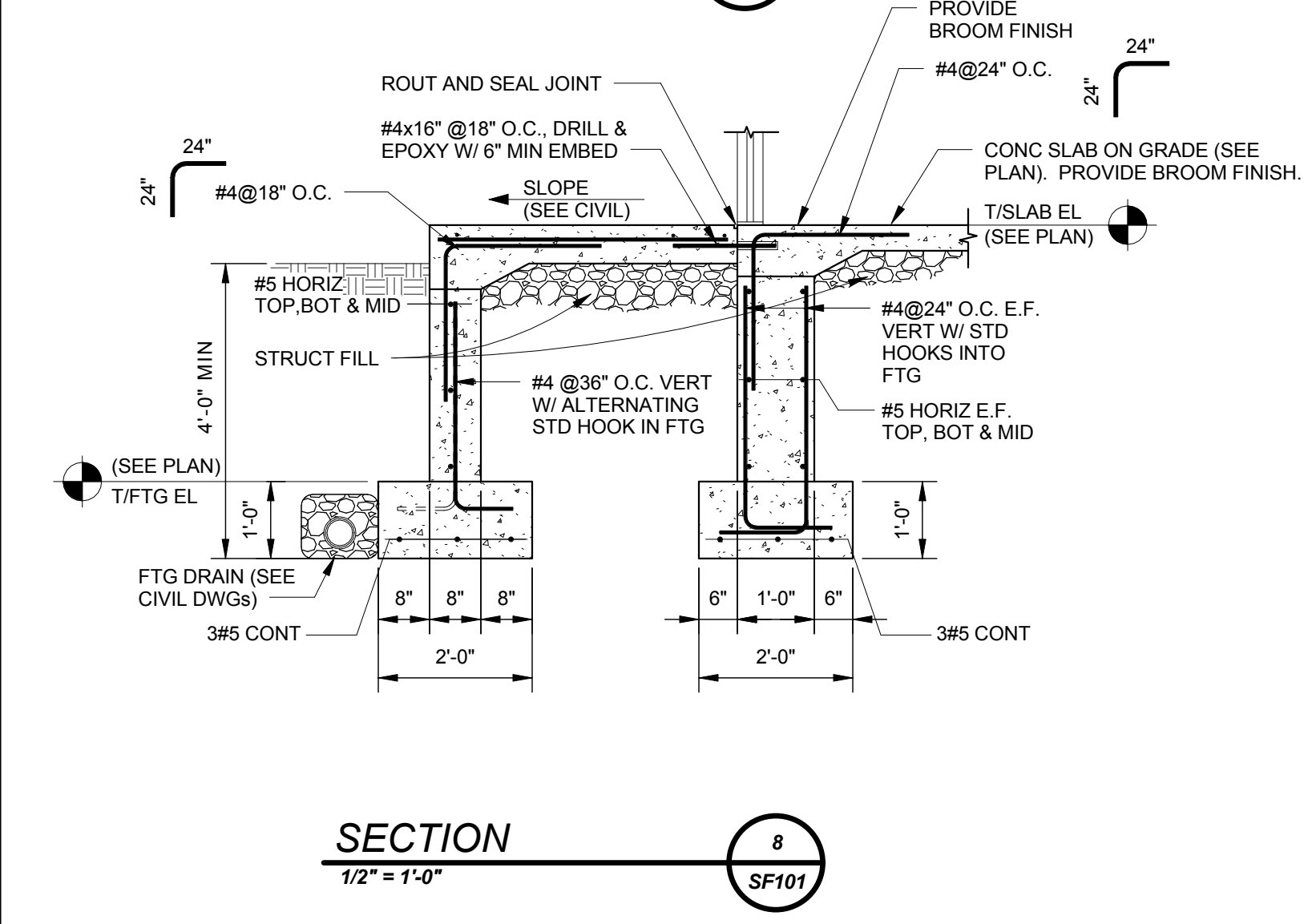
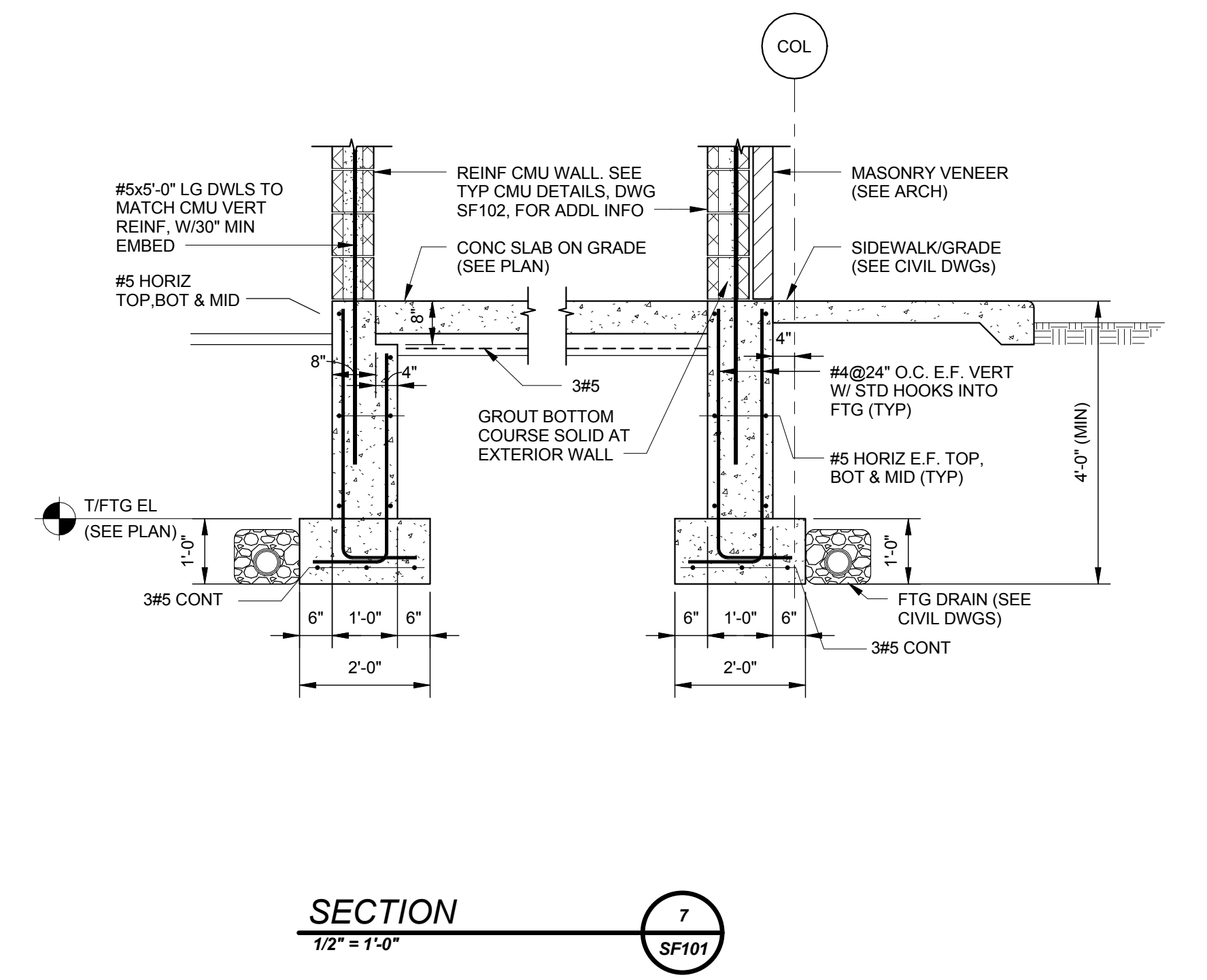
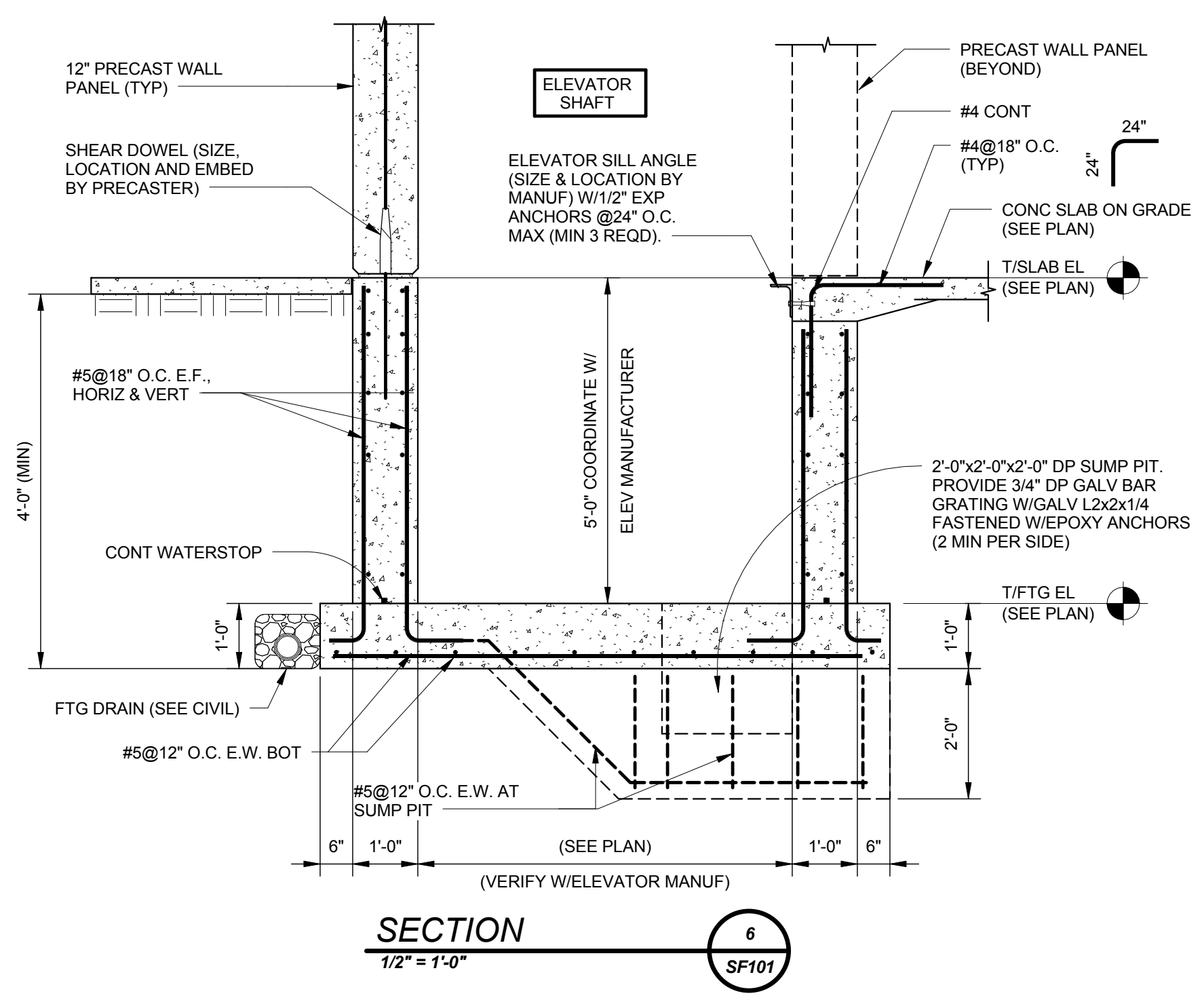
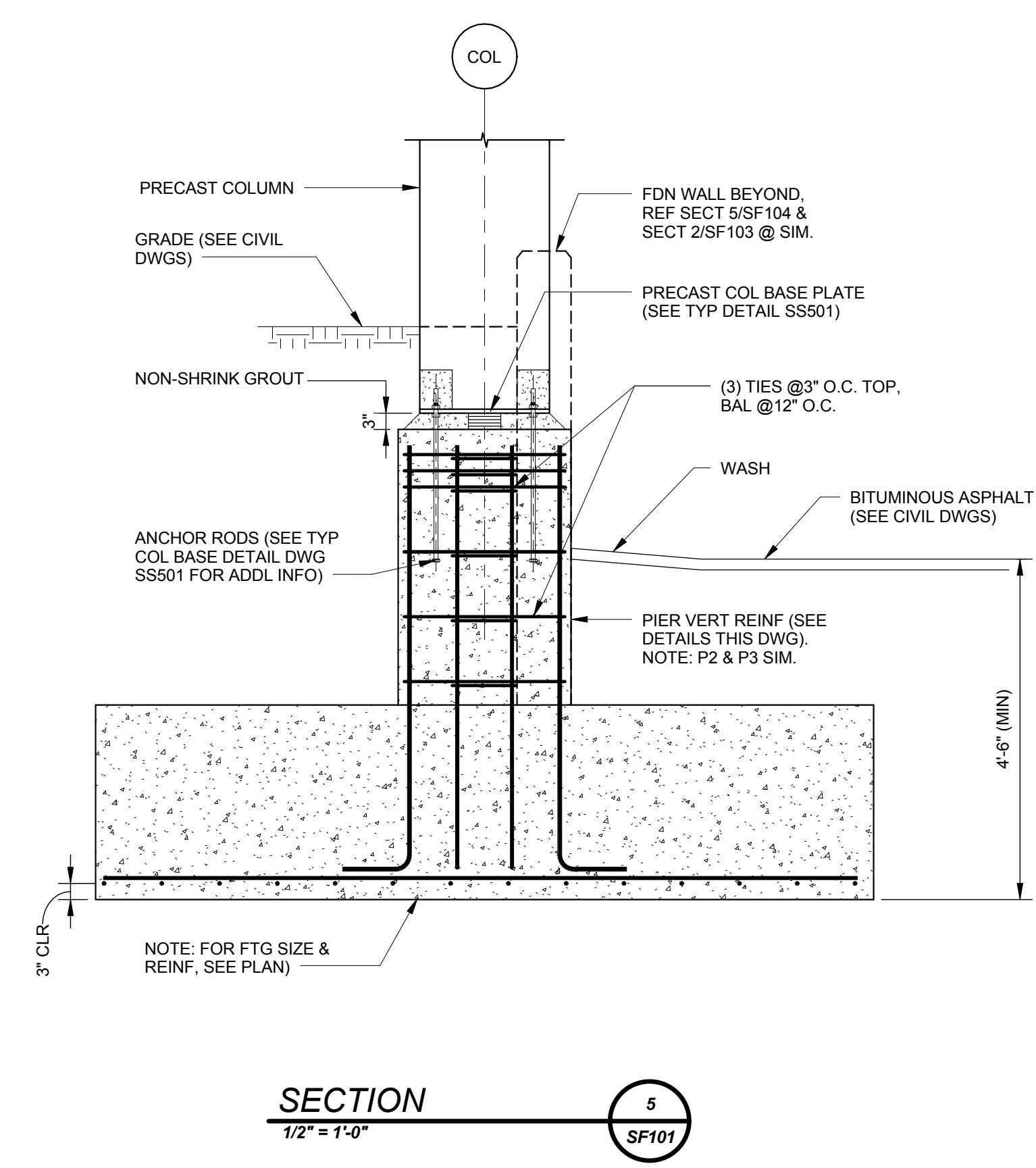
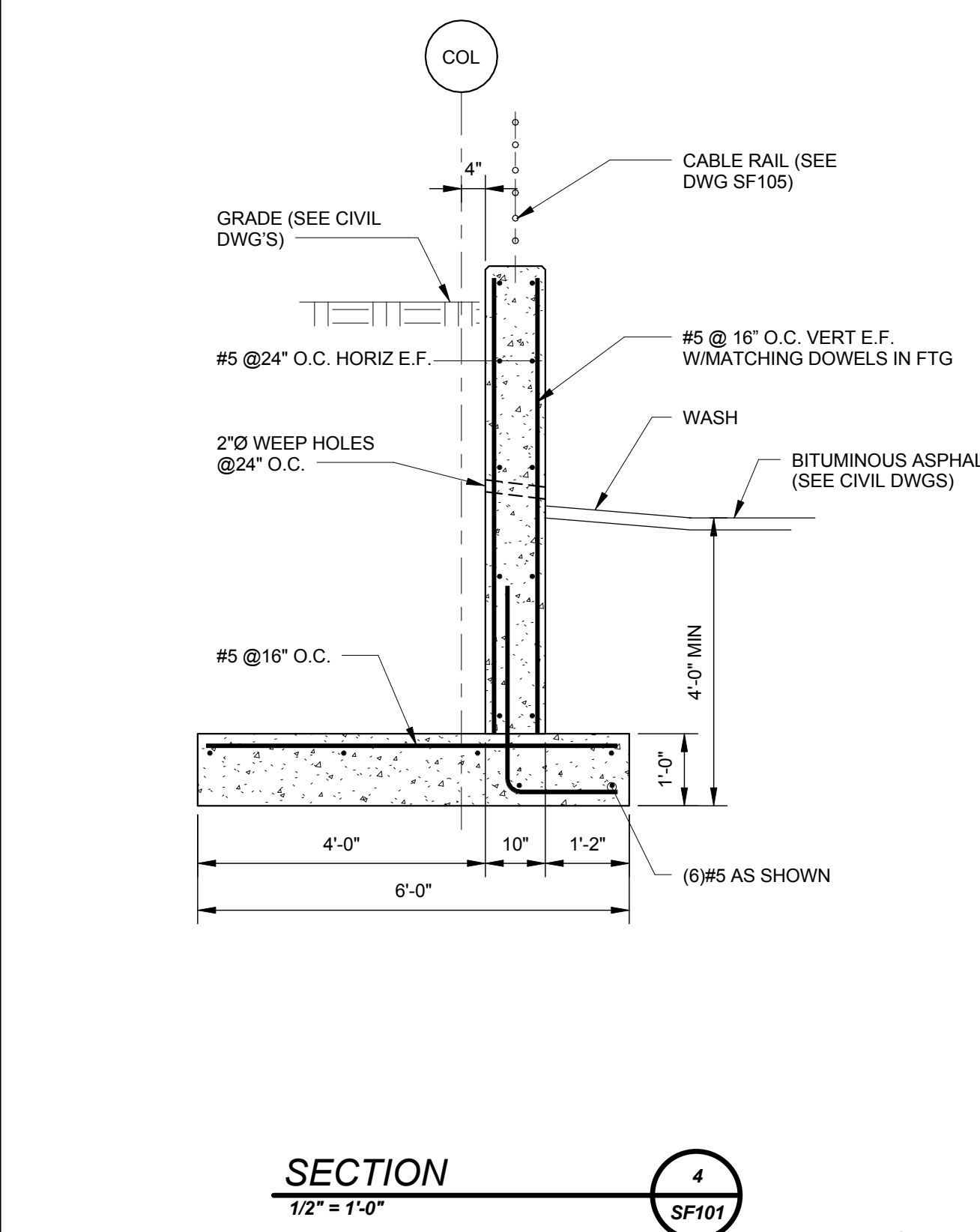
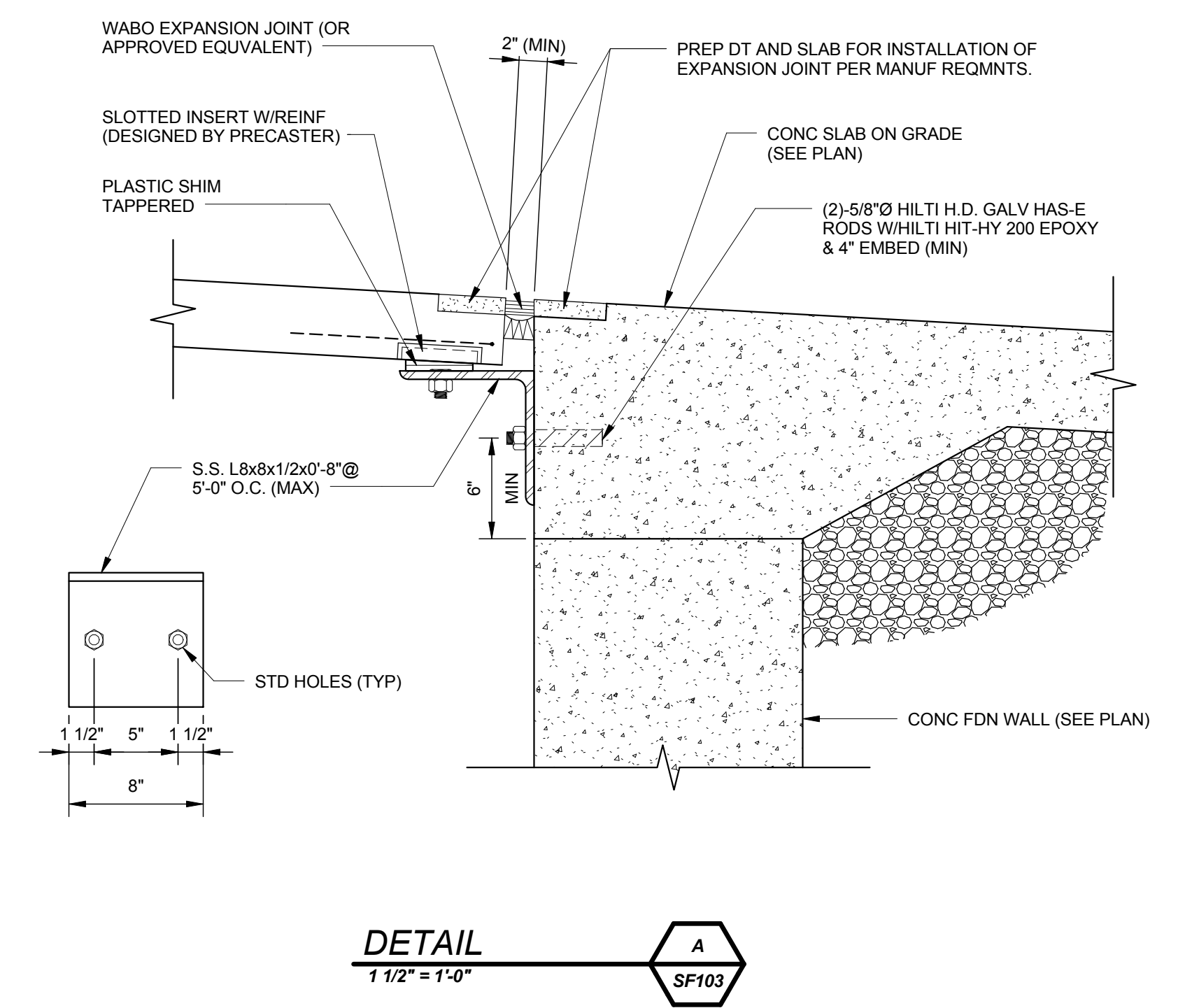
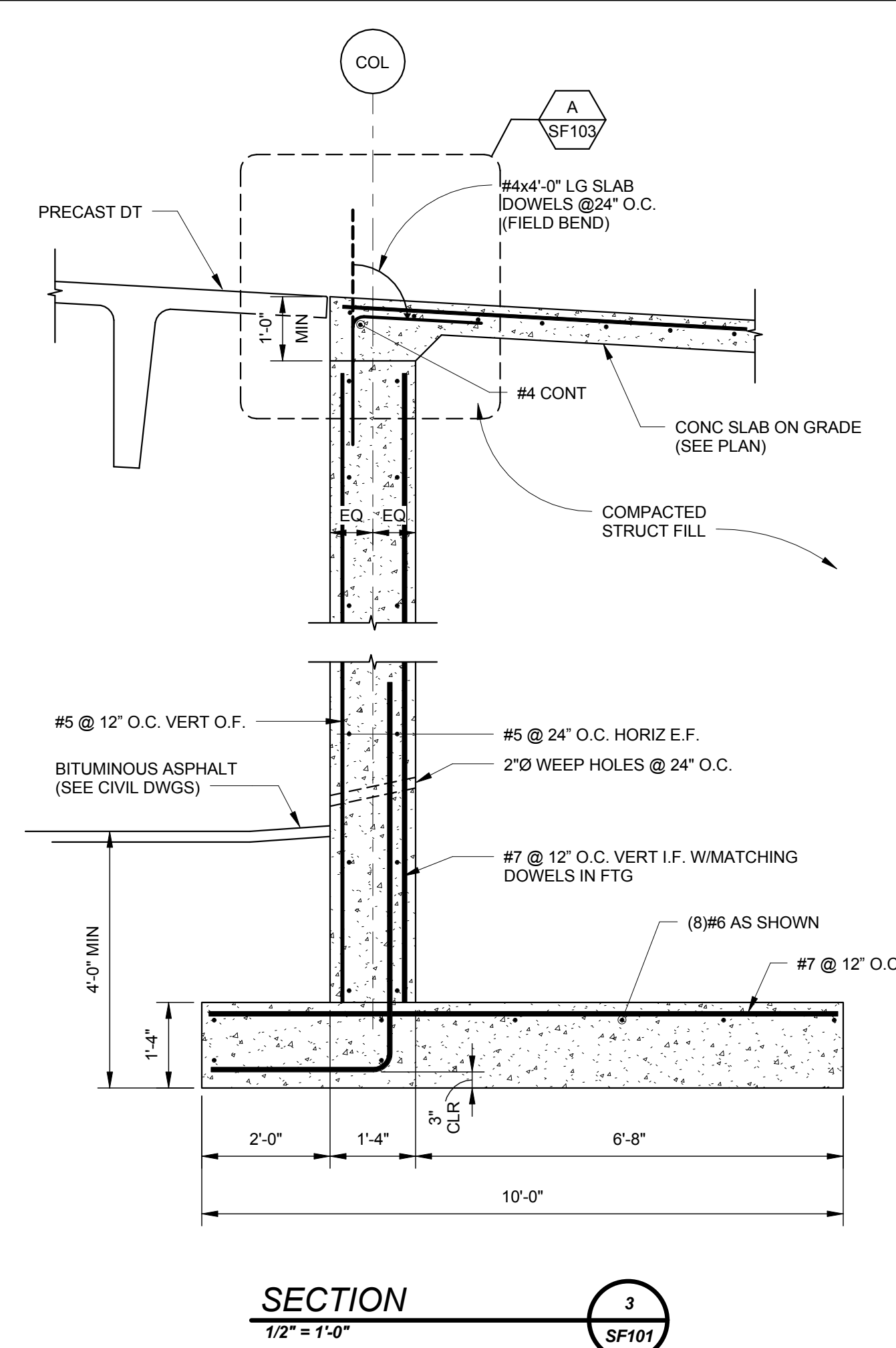
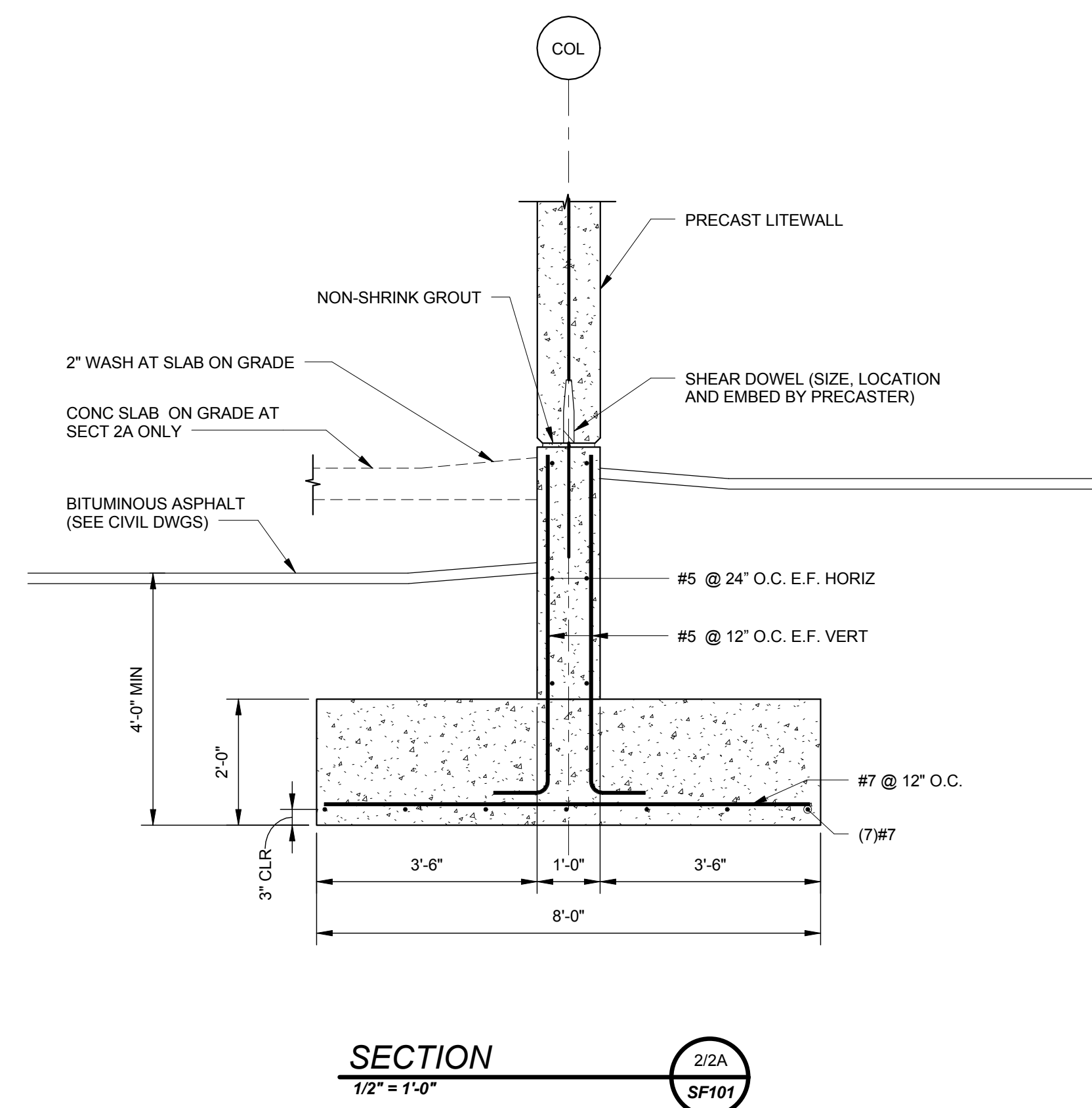
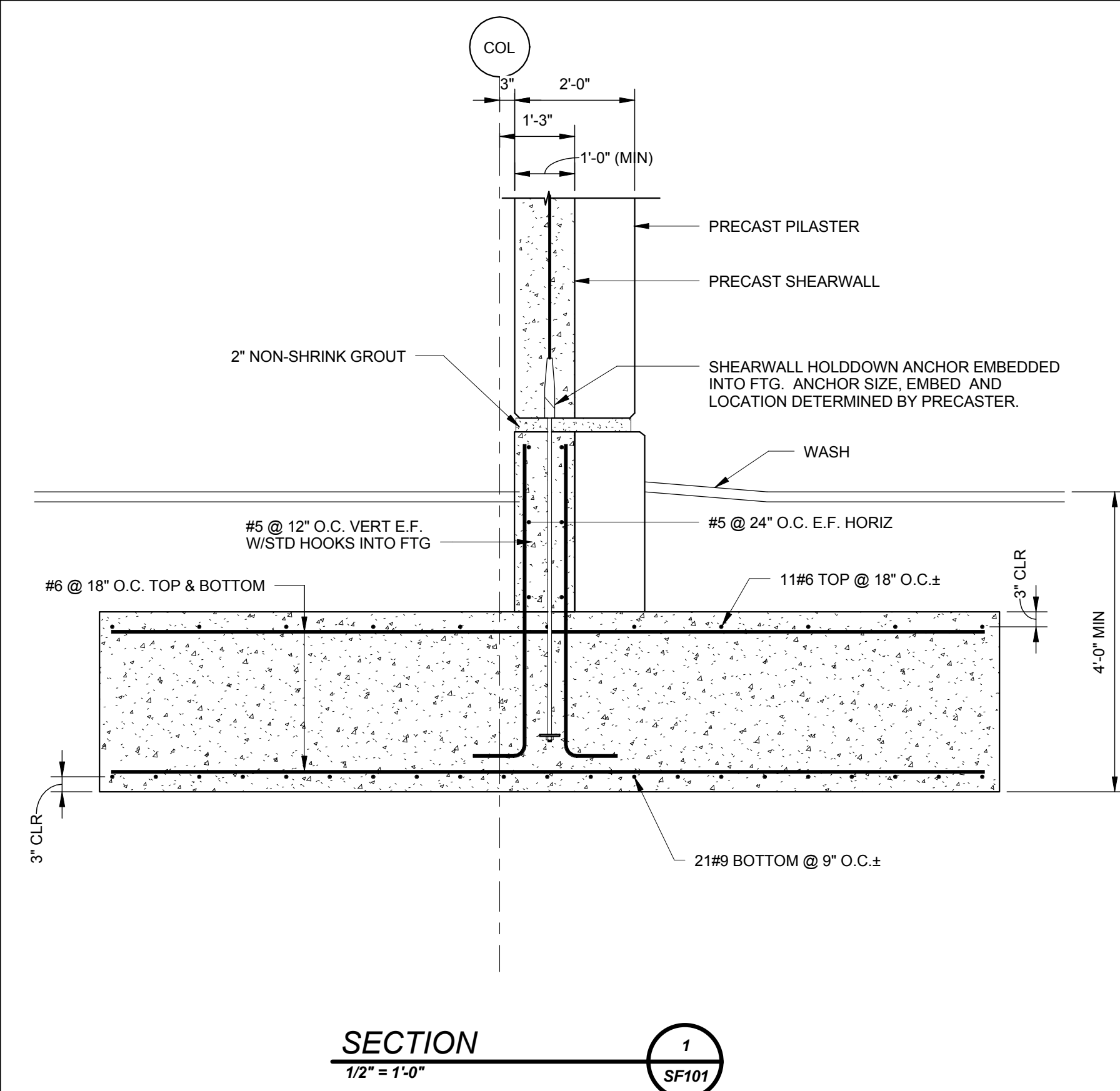
Drawing Number
SF102

Dwg: 39

Office of
Facilities
Management

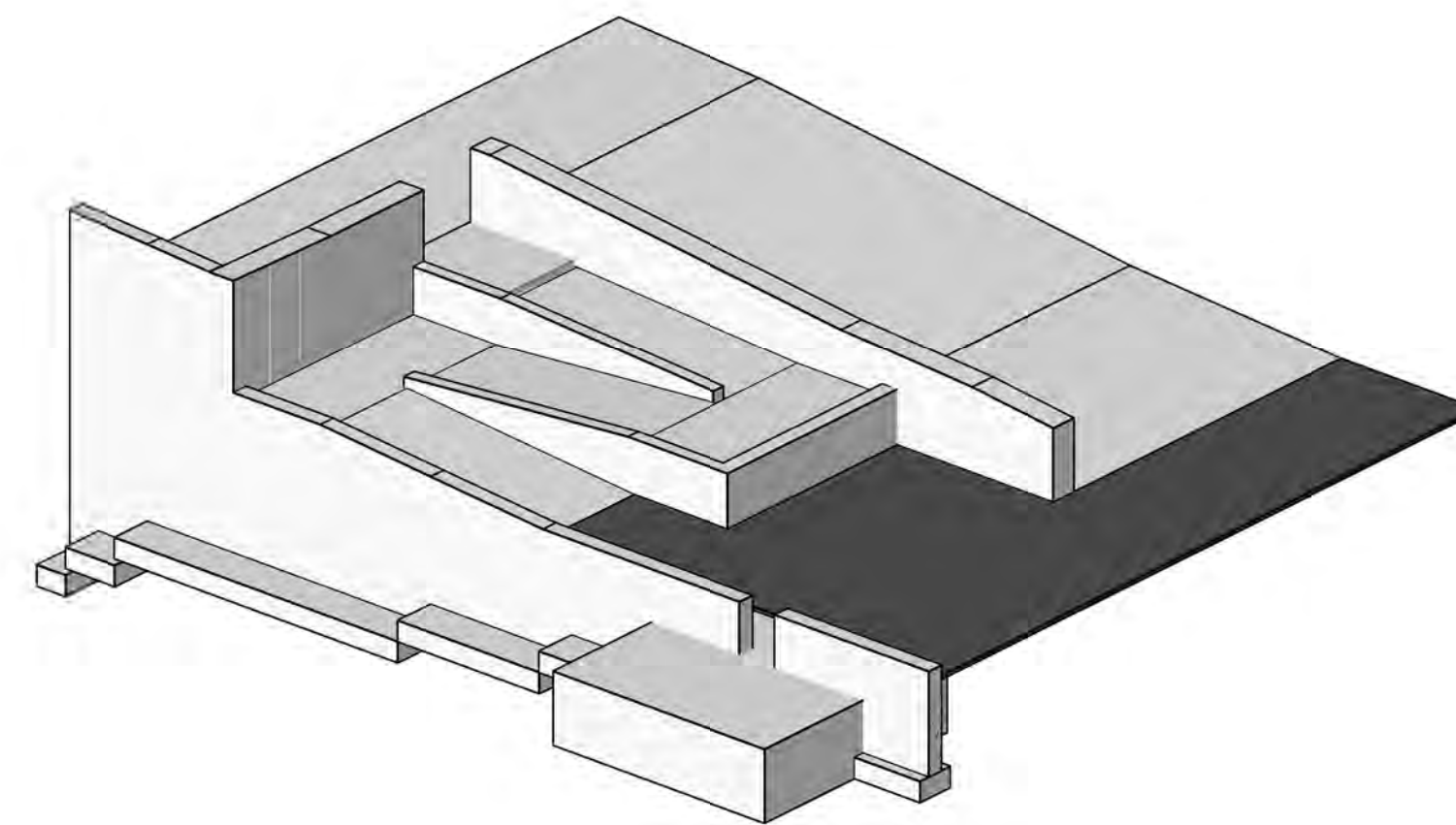
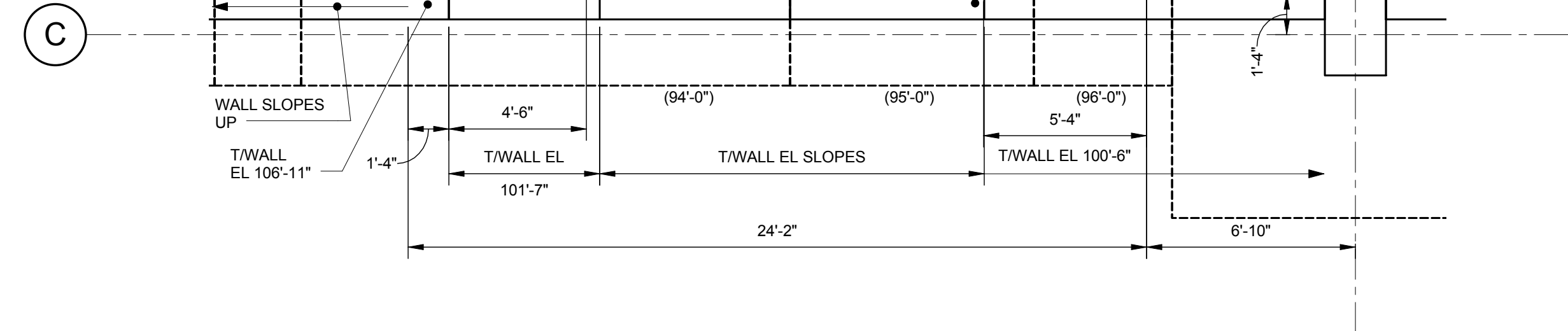


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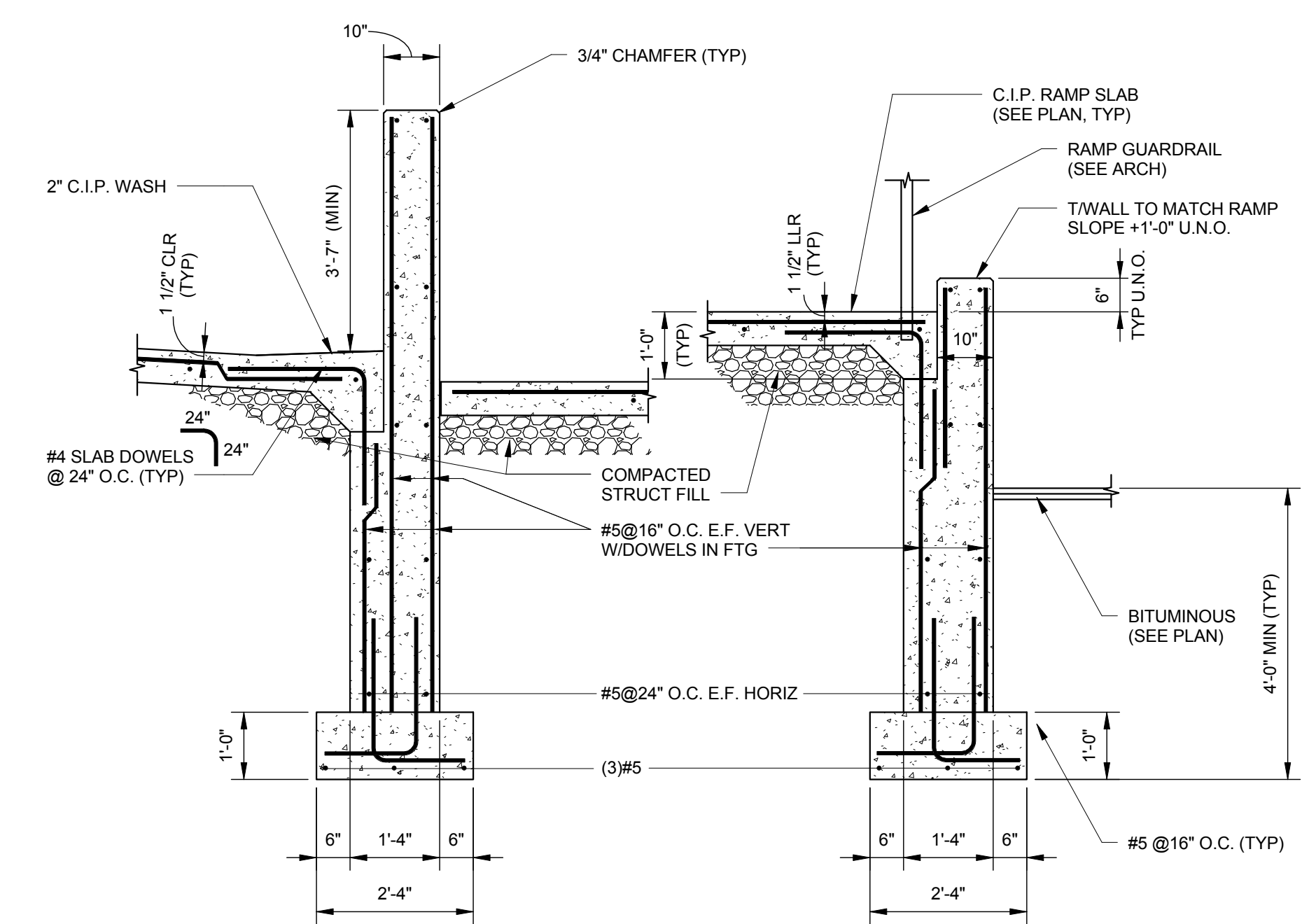


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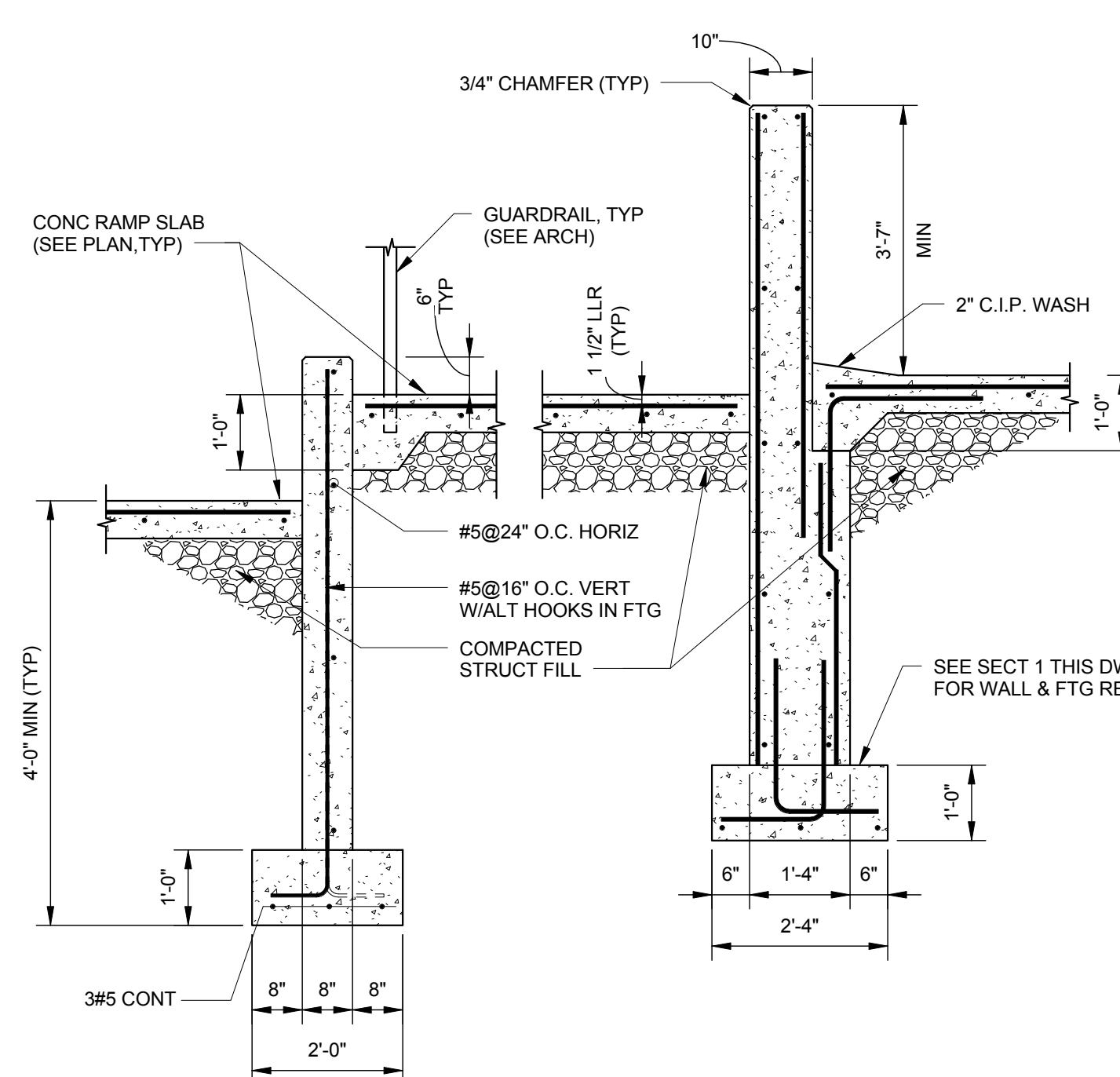
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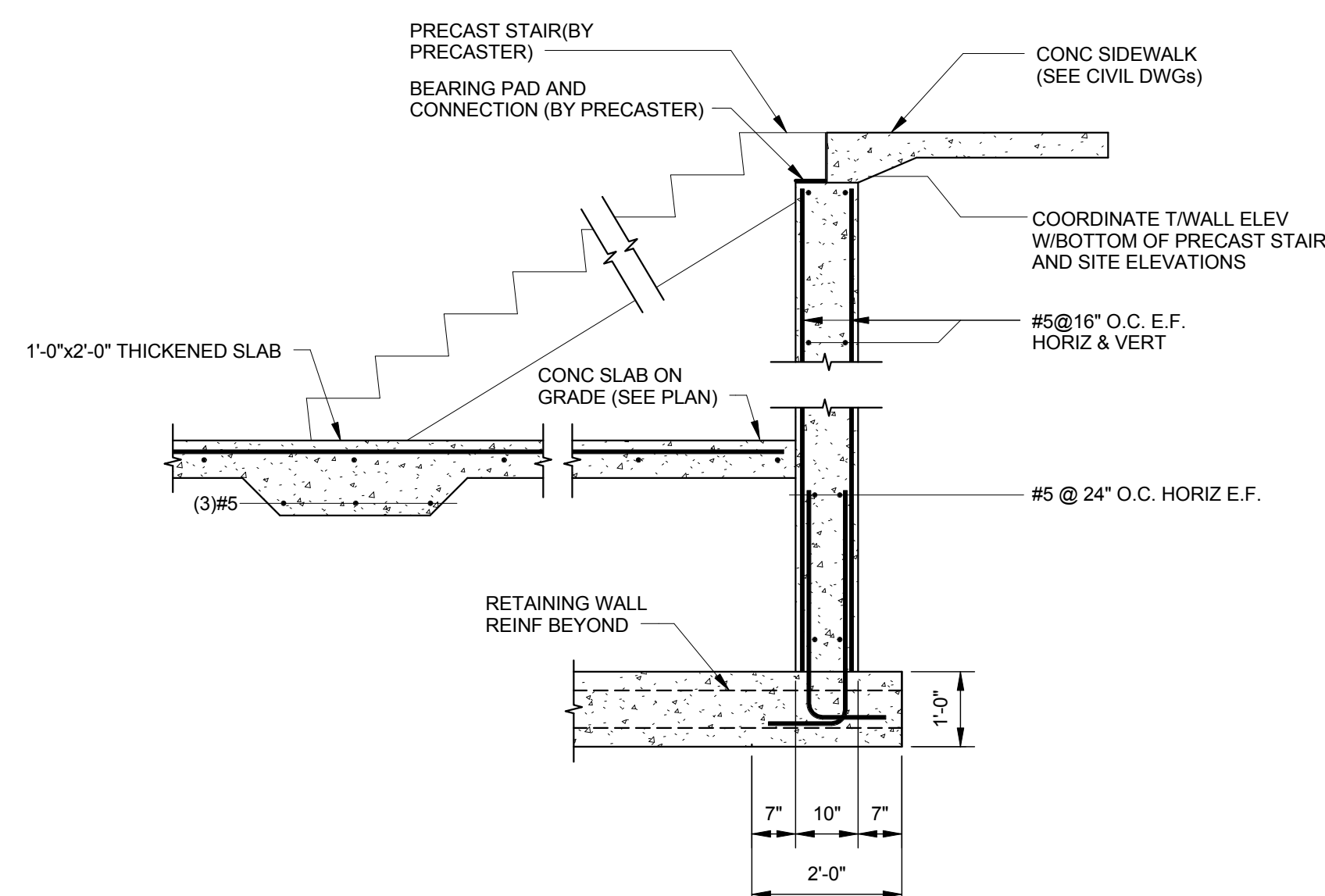
ISOMETRIC OF DETAIL A



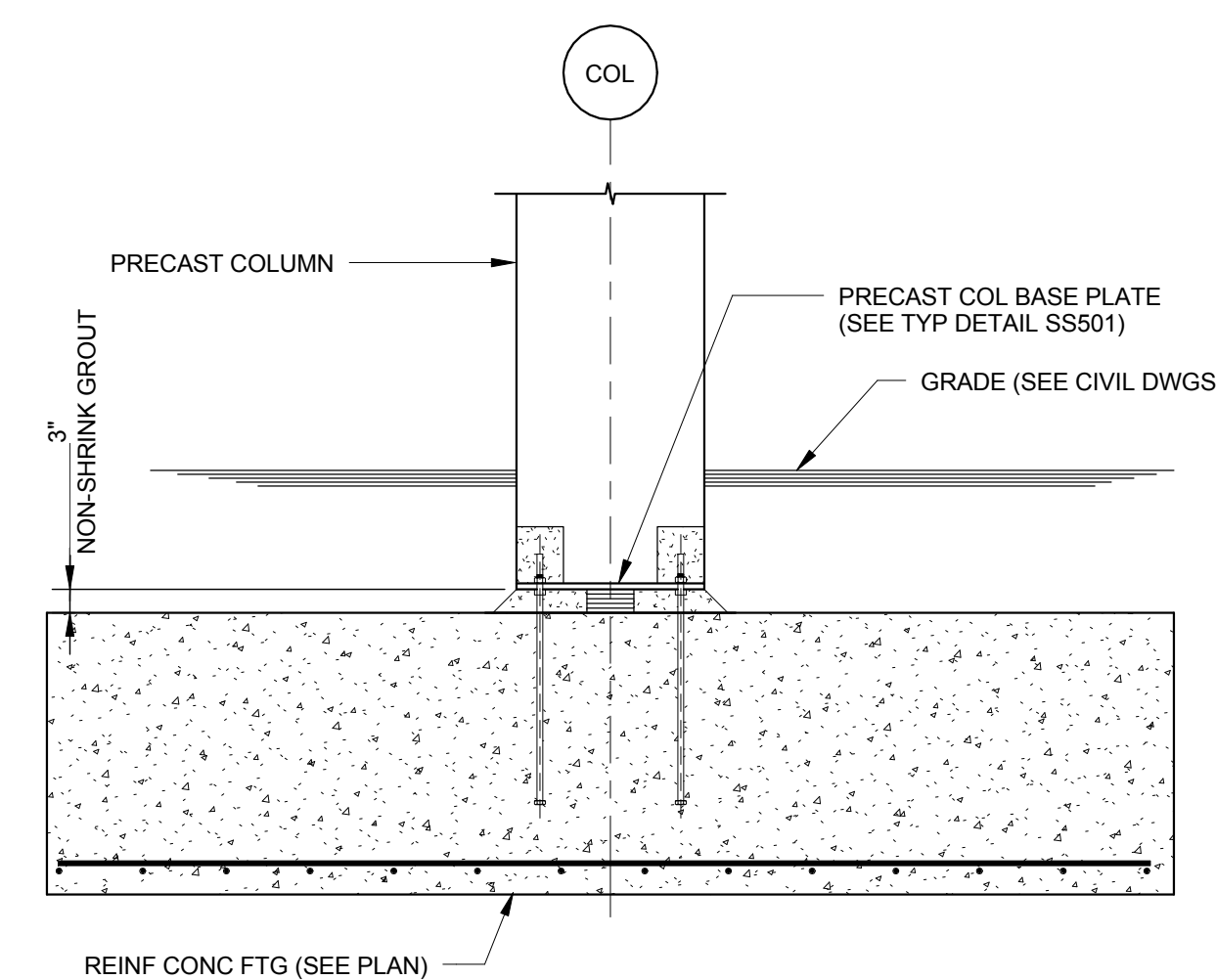
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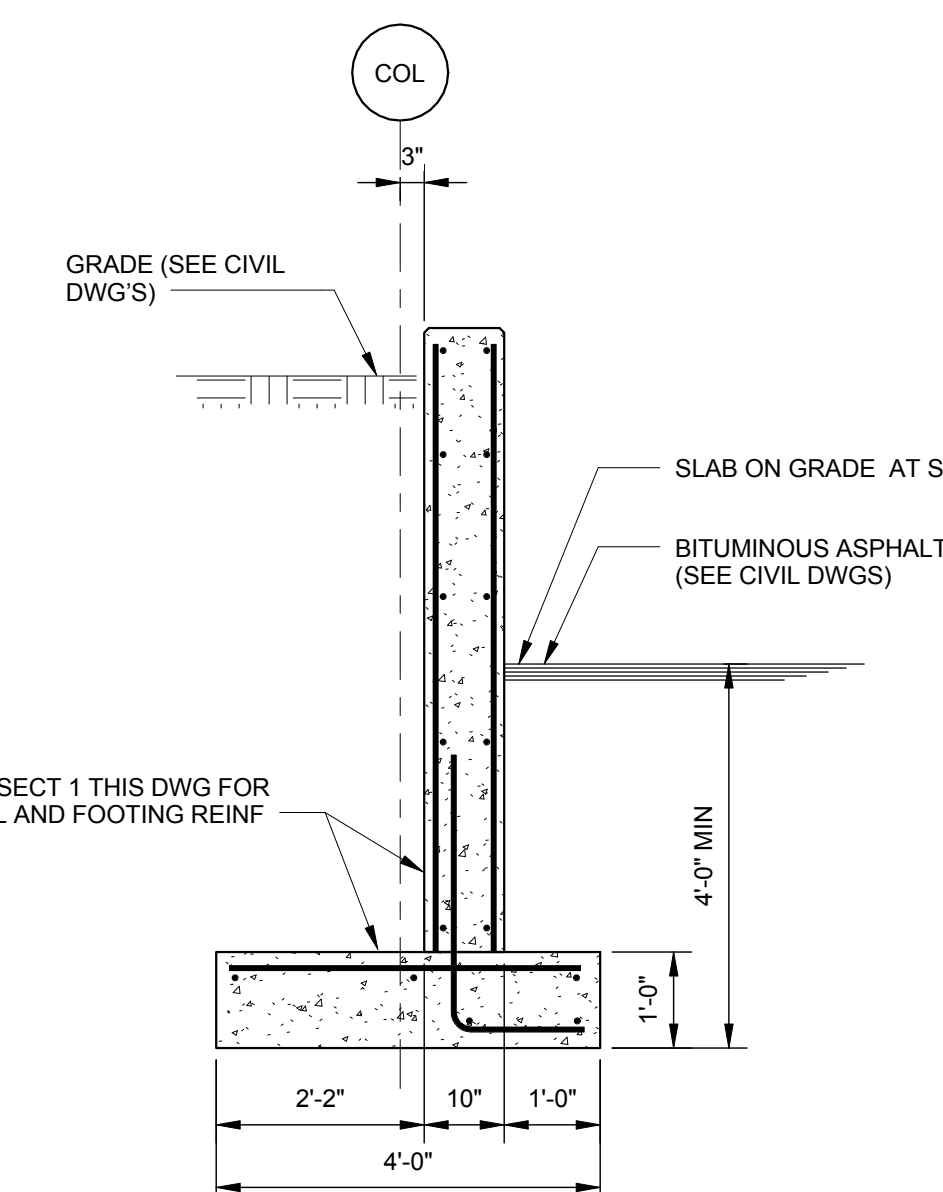
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1/2" = 1'-0" SF104



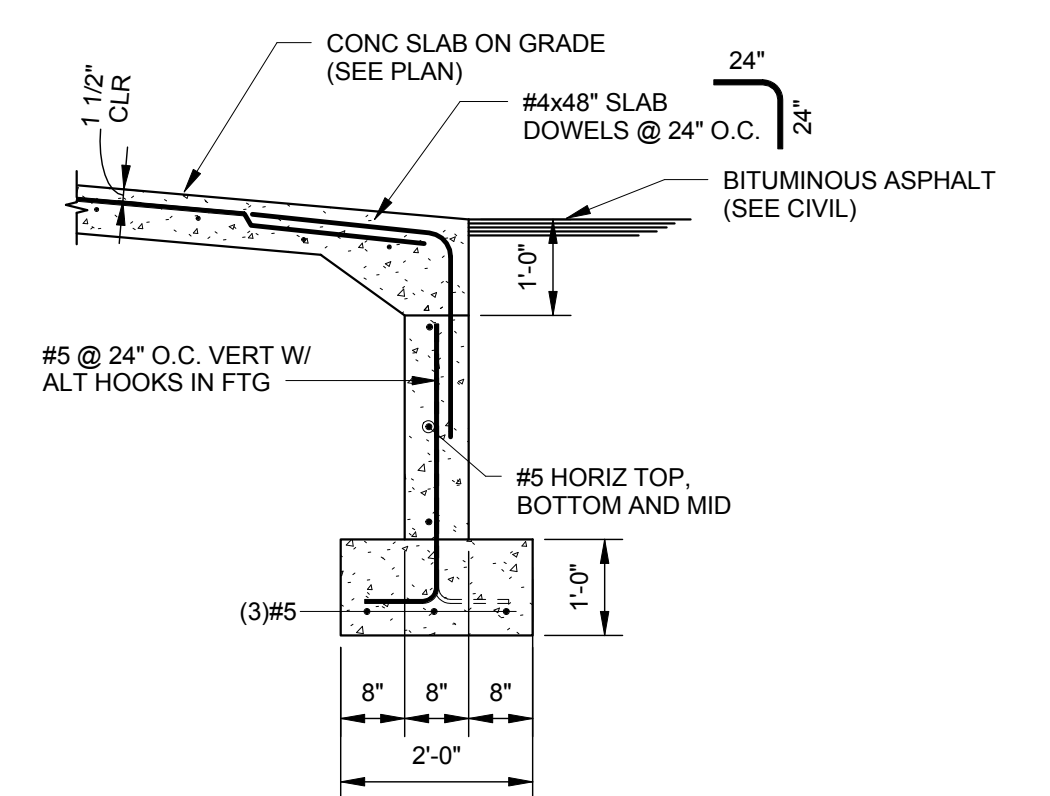
SECTION 3
1/2" = 1'-0" SF101



SECTION 4
1/2" = 1'-0" SF101



SECTION 5
1/2" = 1'-0"
SF10



SECTION 6
1/2" = 1'-0" SF101

100% BID DOCUMENTS

[illegible]

A

B

C

D

E

F

A

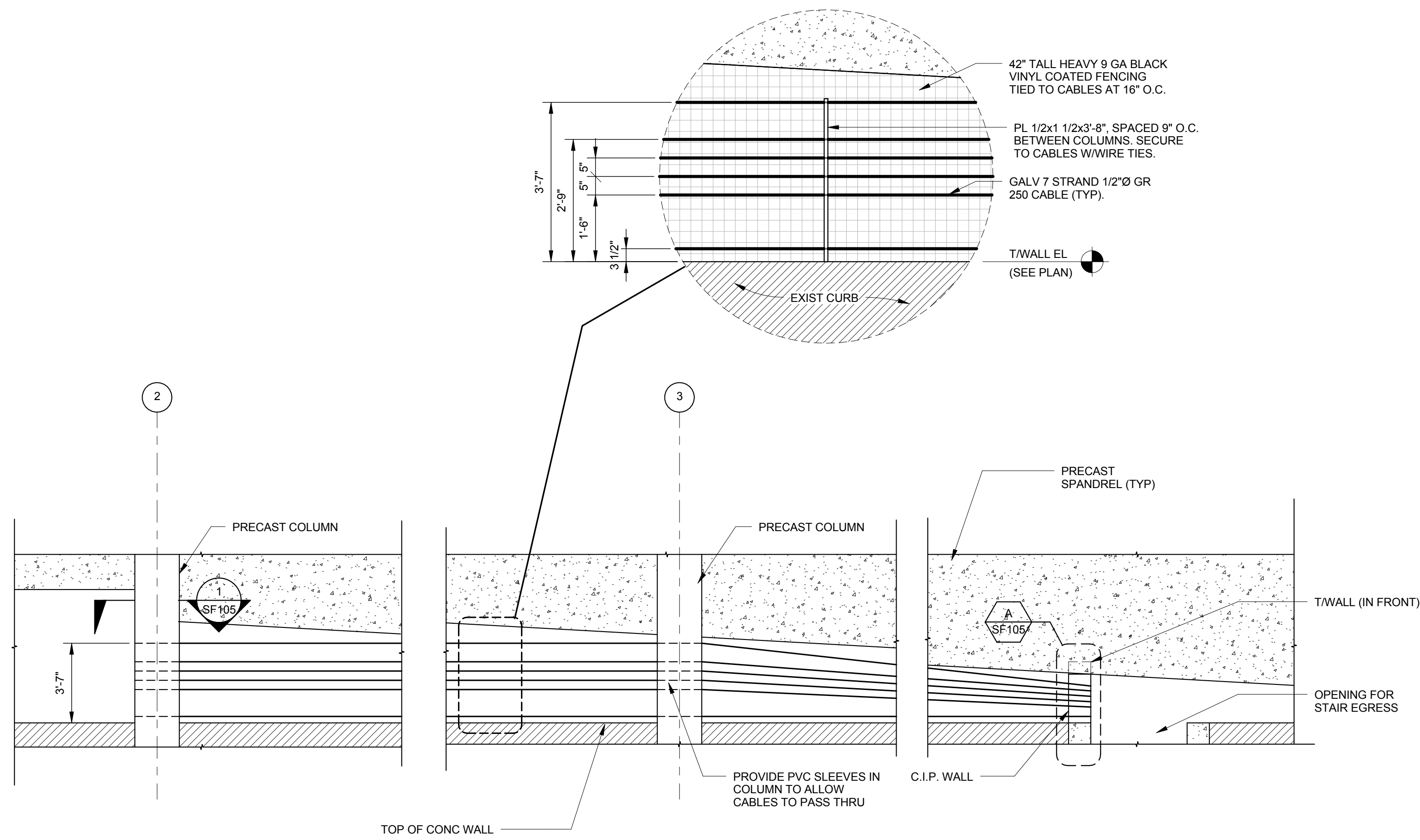
B

C

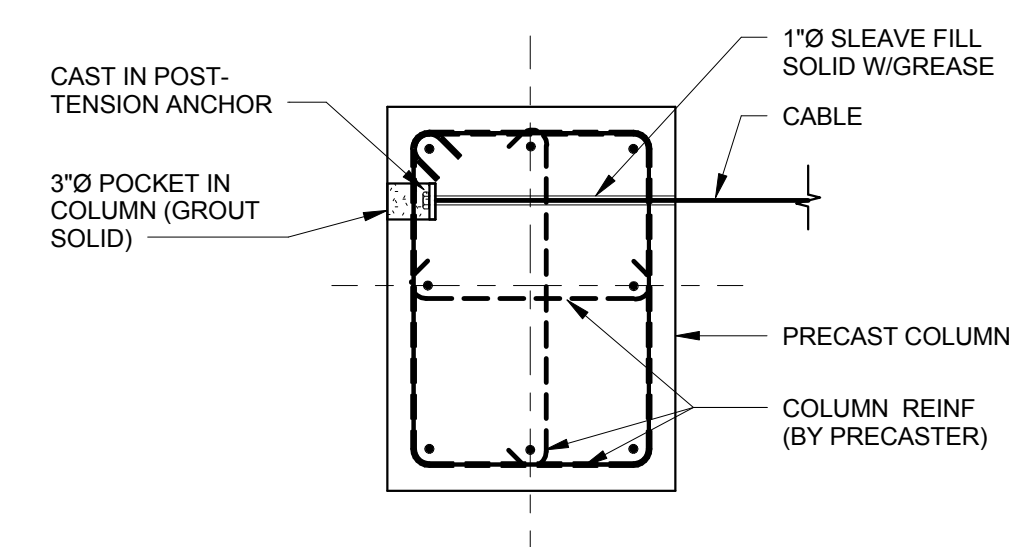
D

E

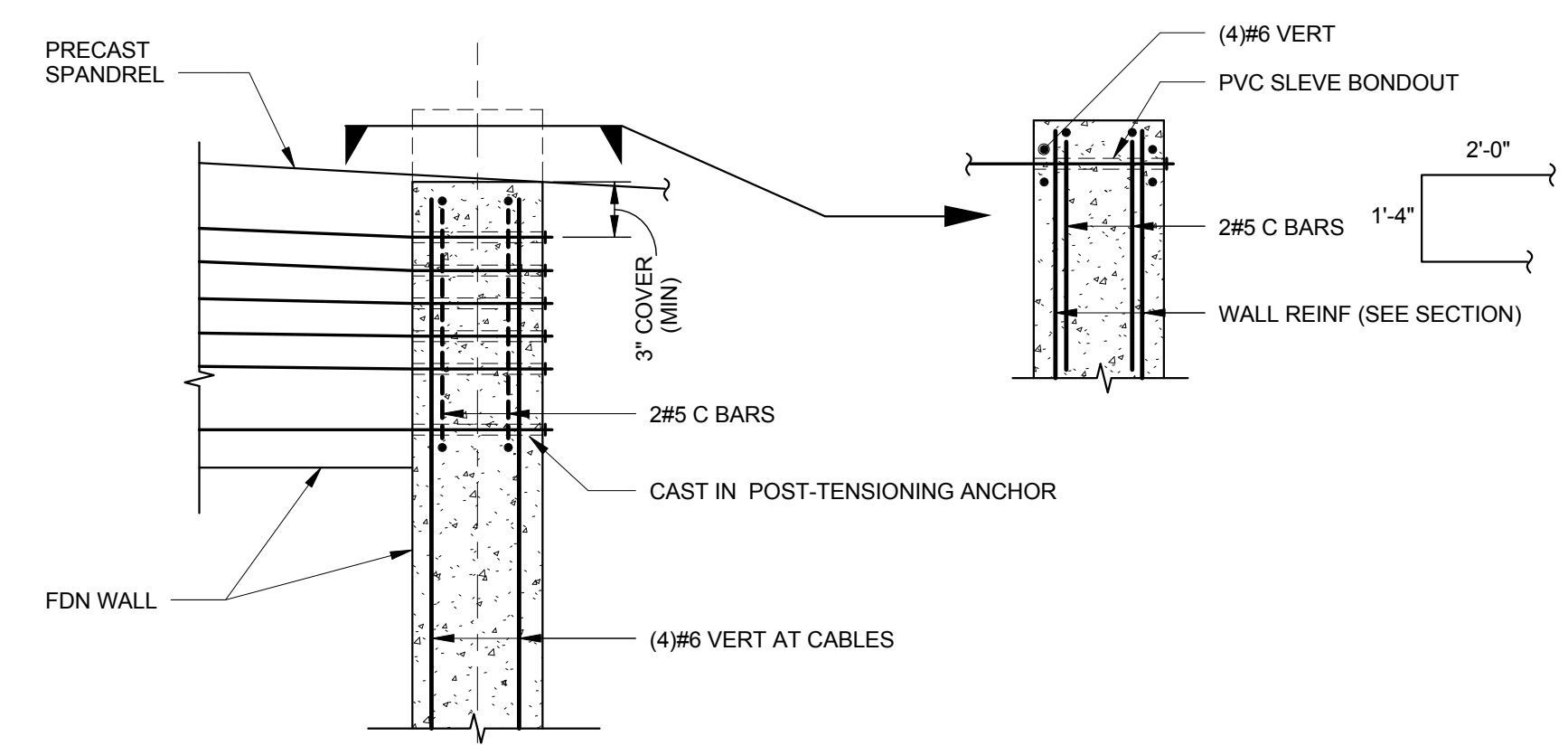
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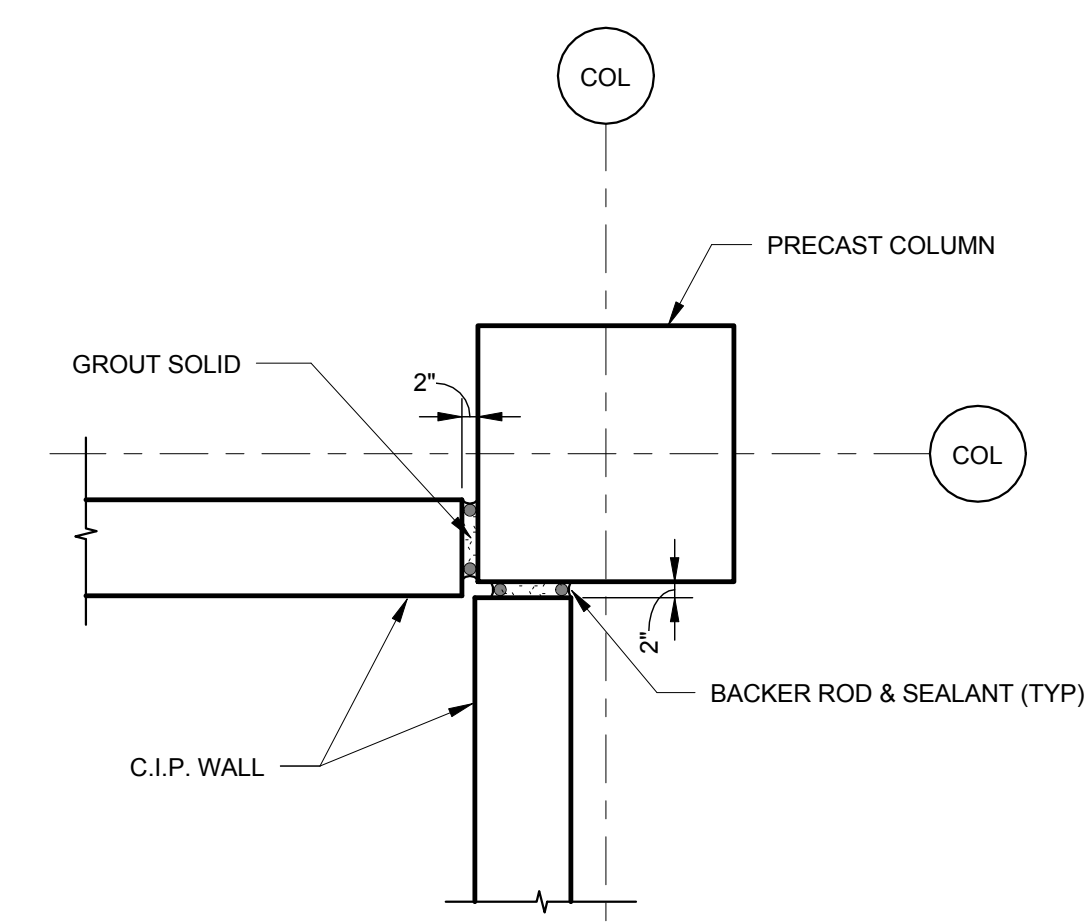
CABLE RAIL ELEVATION @ GRID C
1/4" = 1'-0"



SECTION
3/4" = 1'-0"

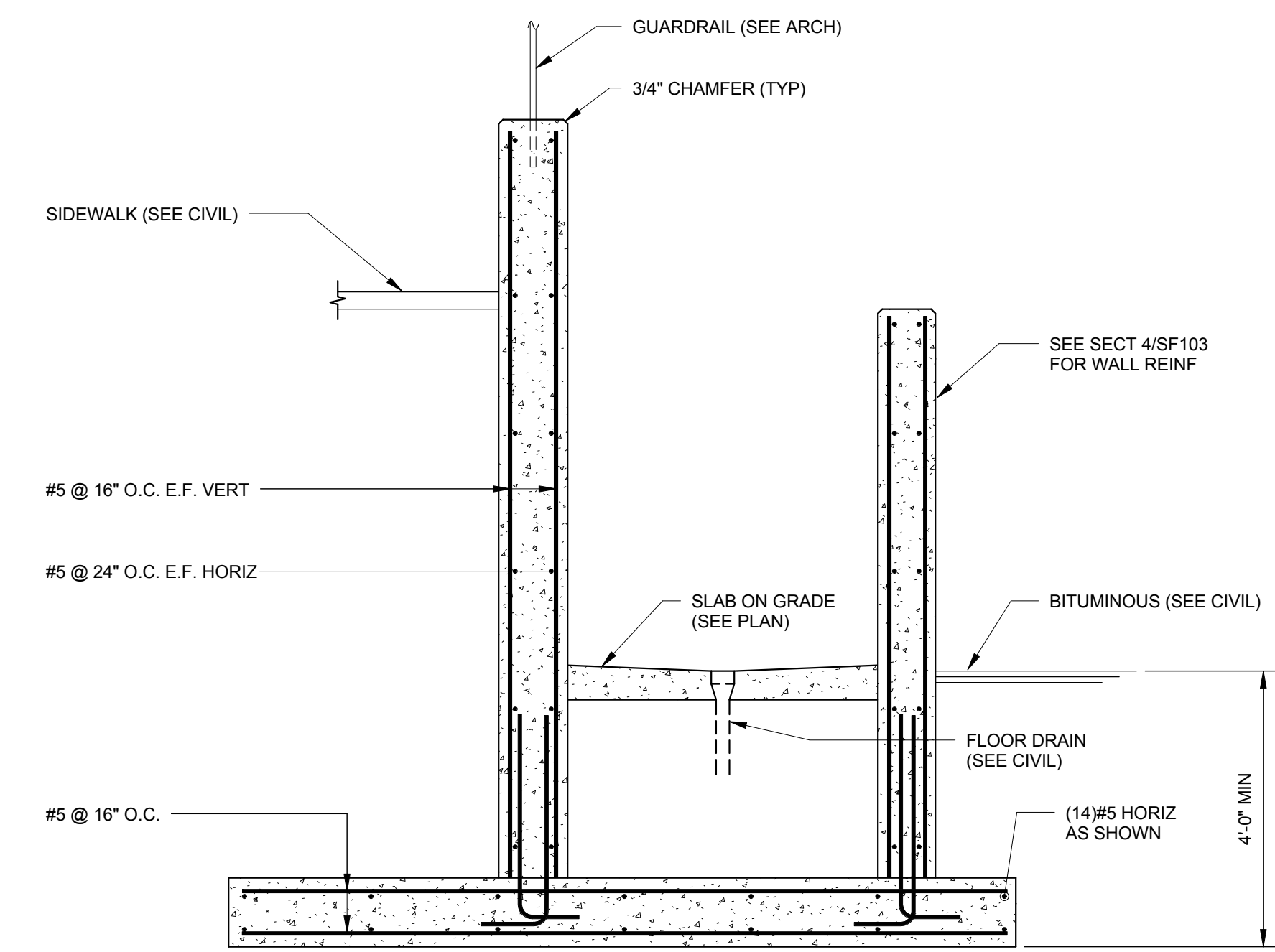


DETAIL
3/4" = 1'-0"

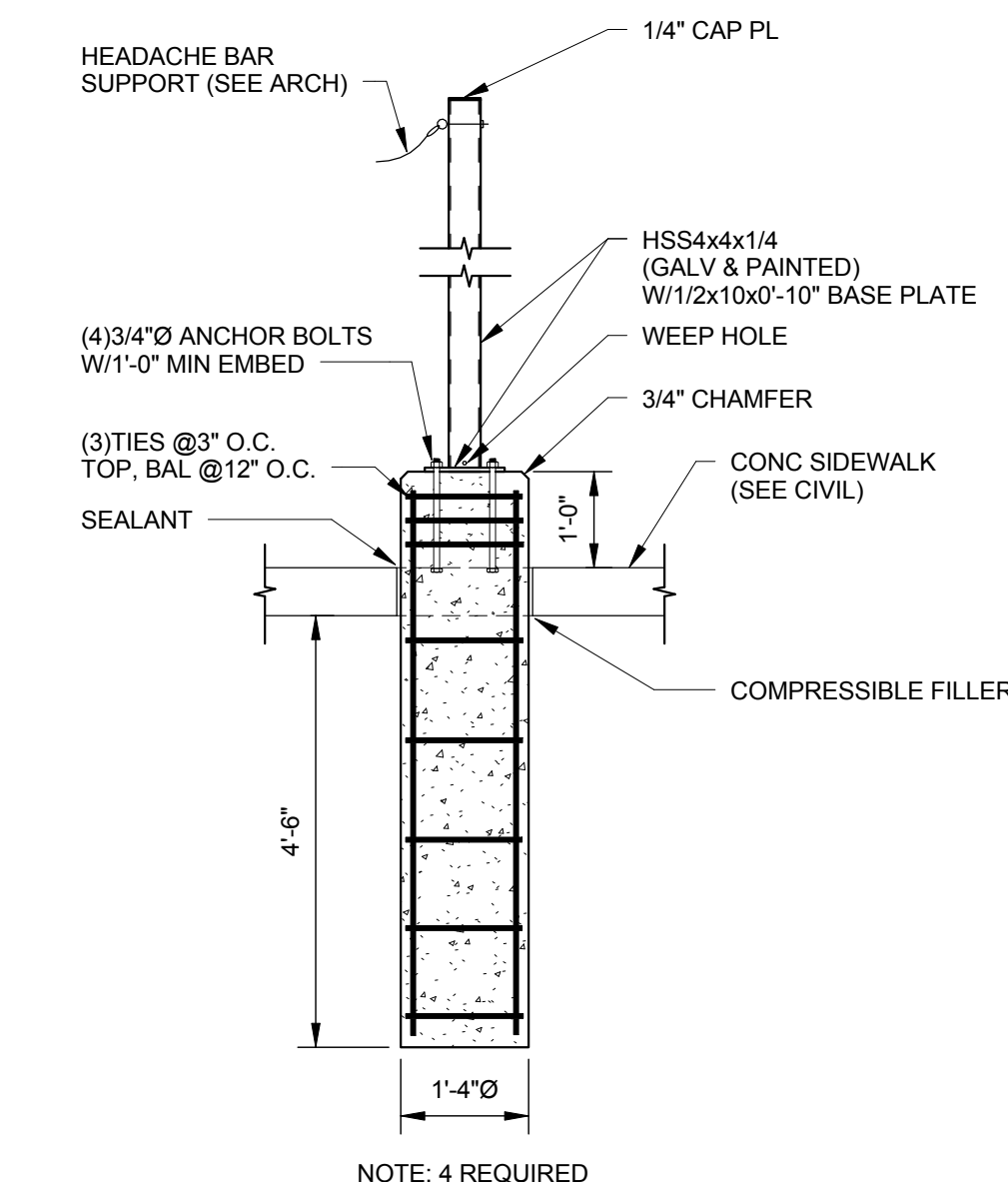


TYP COL/FDN WALL DETAIL

DETAIL
1/2" = 1'-0"



SECTION
1/2" = 1'-0"



SECTION
1/2" = 1'-0"

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	Revisions:	Date						

three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot
one sixteenth inch = one foot

A

B

C

D

E

F

A

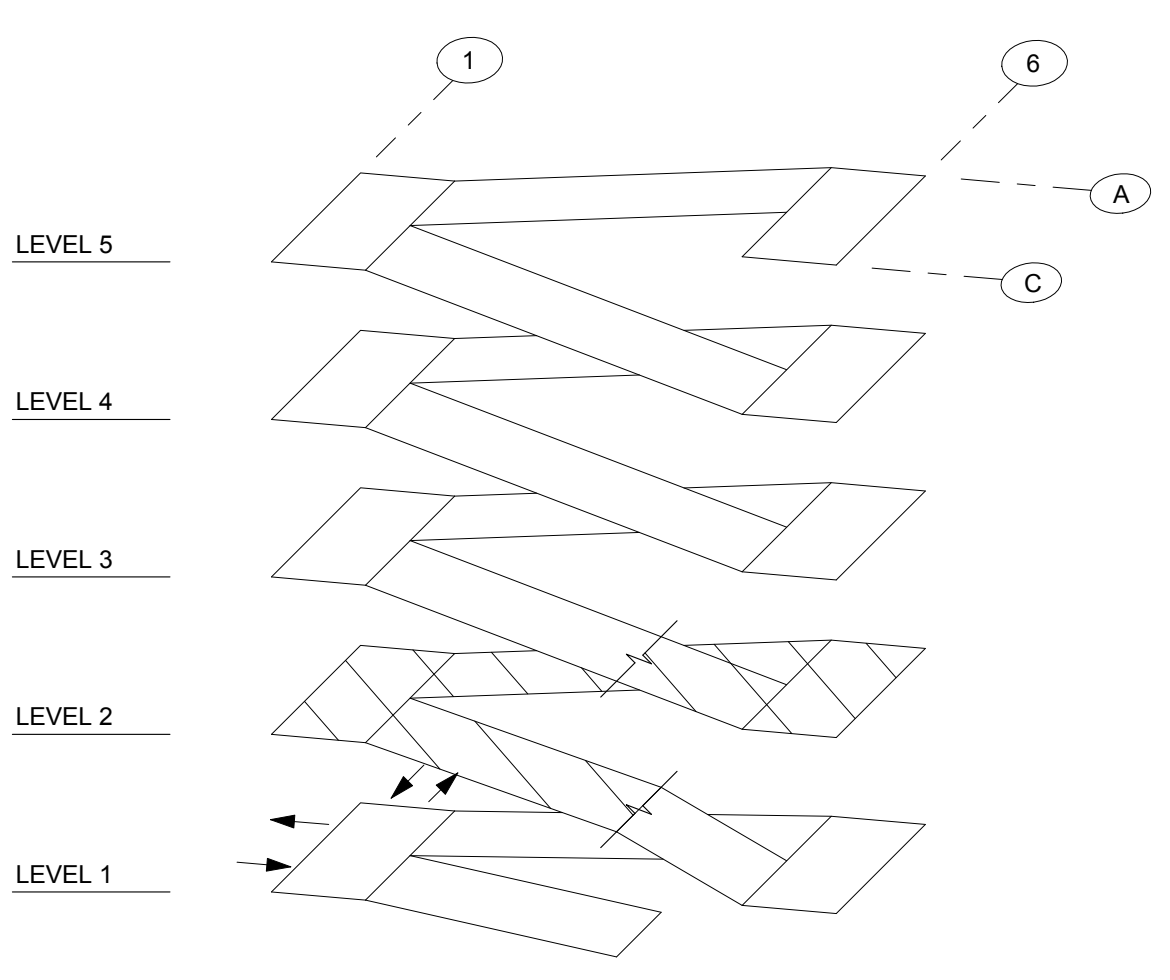
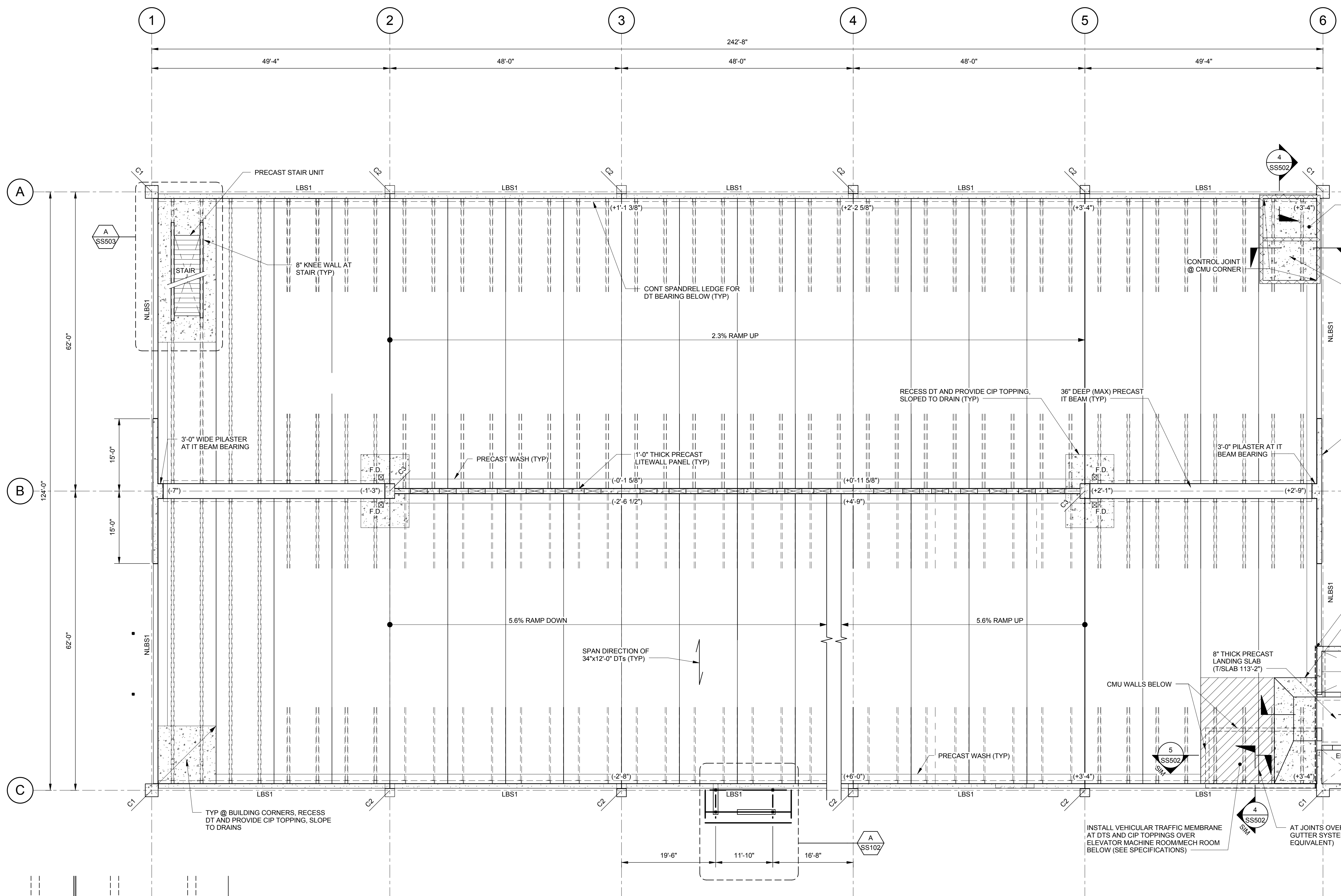
B

C

D

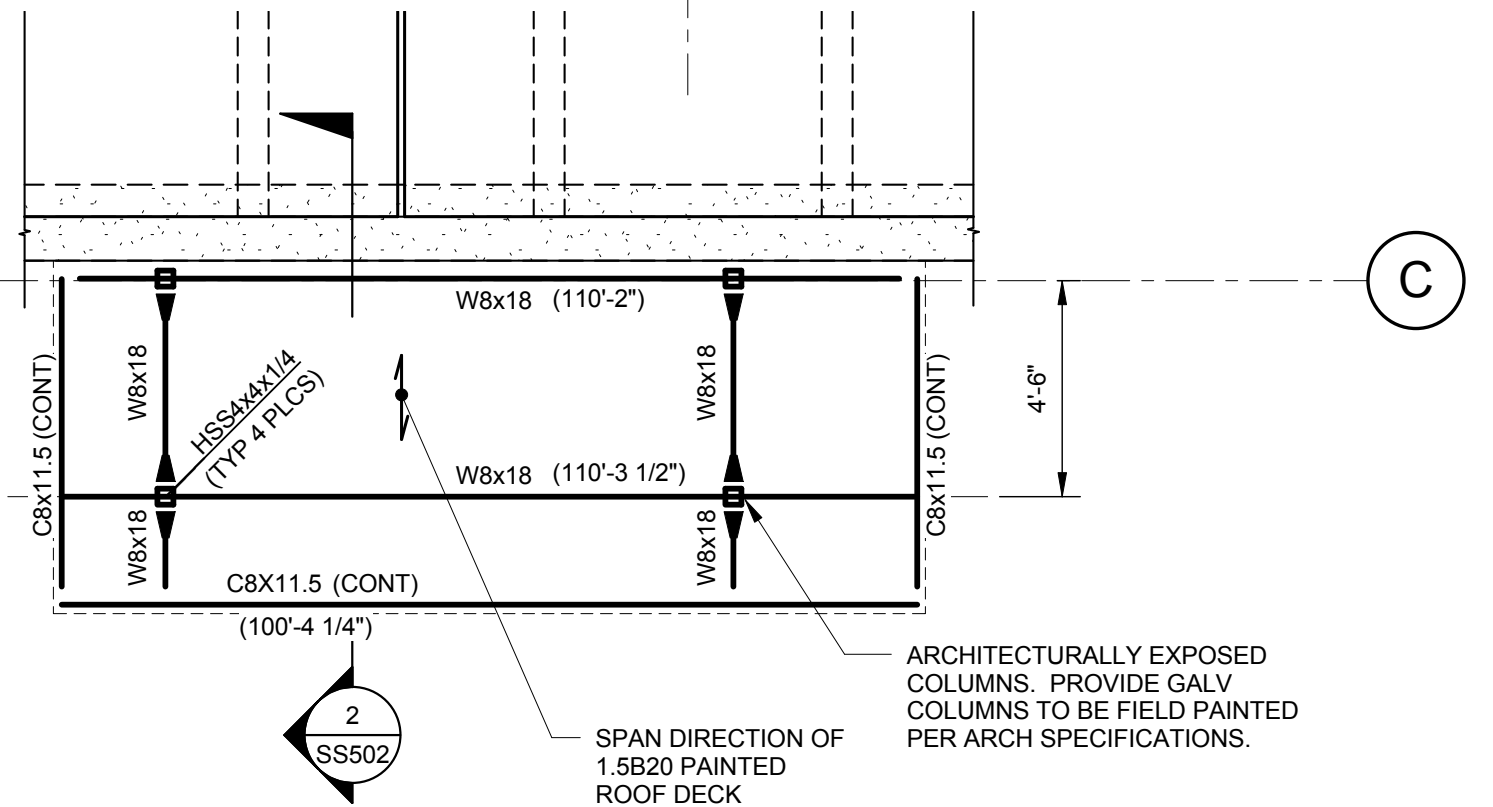
E

F



ISOMETRIC KEY

- ABBREVIATIONS**
- DT: PRE-TOPPED DOUBLE-TEE
 - LBS: LOAD-BEARING SPANDREL
 - NLBS: NON LOAD-BEARING SPANDREL
 - IT BEAM: INVERTED TEE-BEAM
 - SW: SHEARWALL
 - LW: LITEWALL

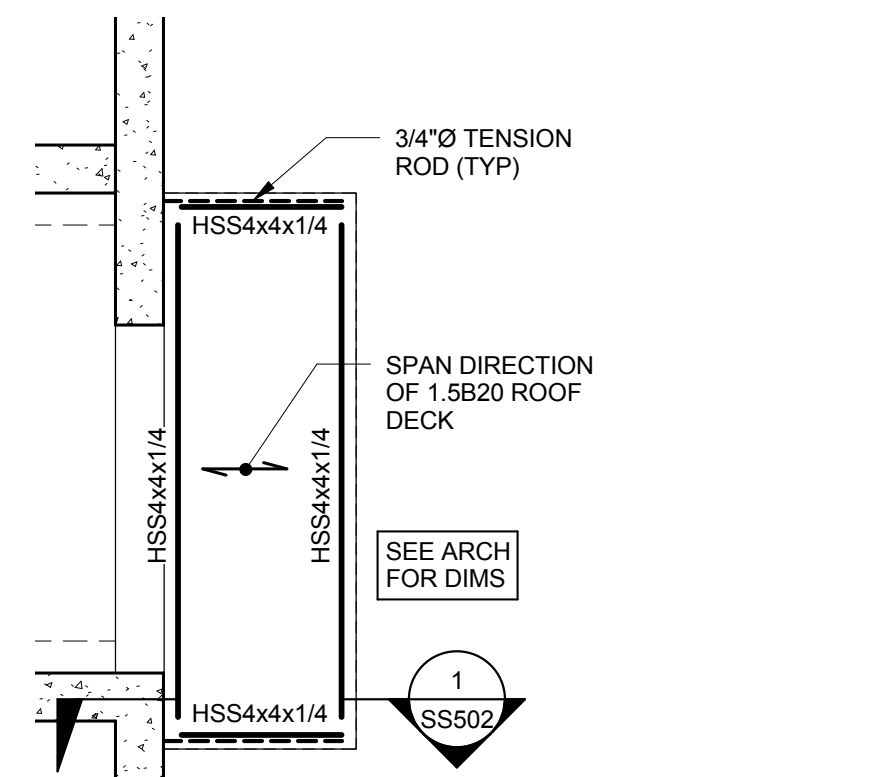


CANOPY ROOF FRAMING DETAIL

- NOTES:**
- INDICATES MOMENT CONNECTION, SEE 1/SS502 FOR ADDL INFO.
 - 1/STL EL INDICED BY (X-XX)
 - ALL STEEL SHOWN TO BE GALVANIZED, U.N.O.
 - SEE ARCH FOR FINISHES AND ANY INFILL FRAMING REQD.

LEVEL 2 PLAN

- NOTES:**
- (X-XX) INDICATES TOP OF DECK ELEVATION RELATIVE TO REFERENCE ELEVATION (100'-0") U.N.O.
 - F.D. INDICATES FLOOR DRAIN (SEE TYP DETAIL DWG SS502)
 - PRECAST COLUMNS INDICATED BY C ARE:
 - REFER TO DRAWING SS501 FOR SPANDREL BEAMS INDICATED BY LBS AND NLBS.



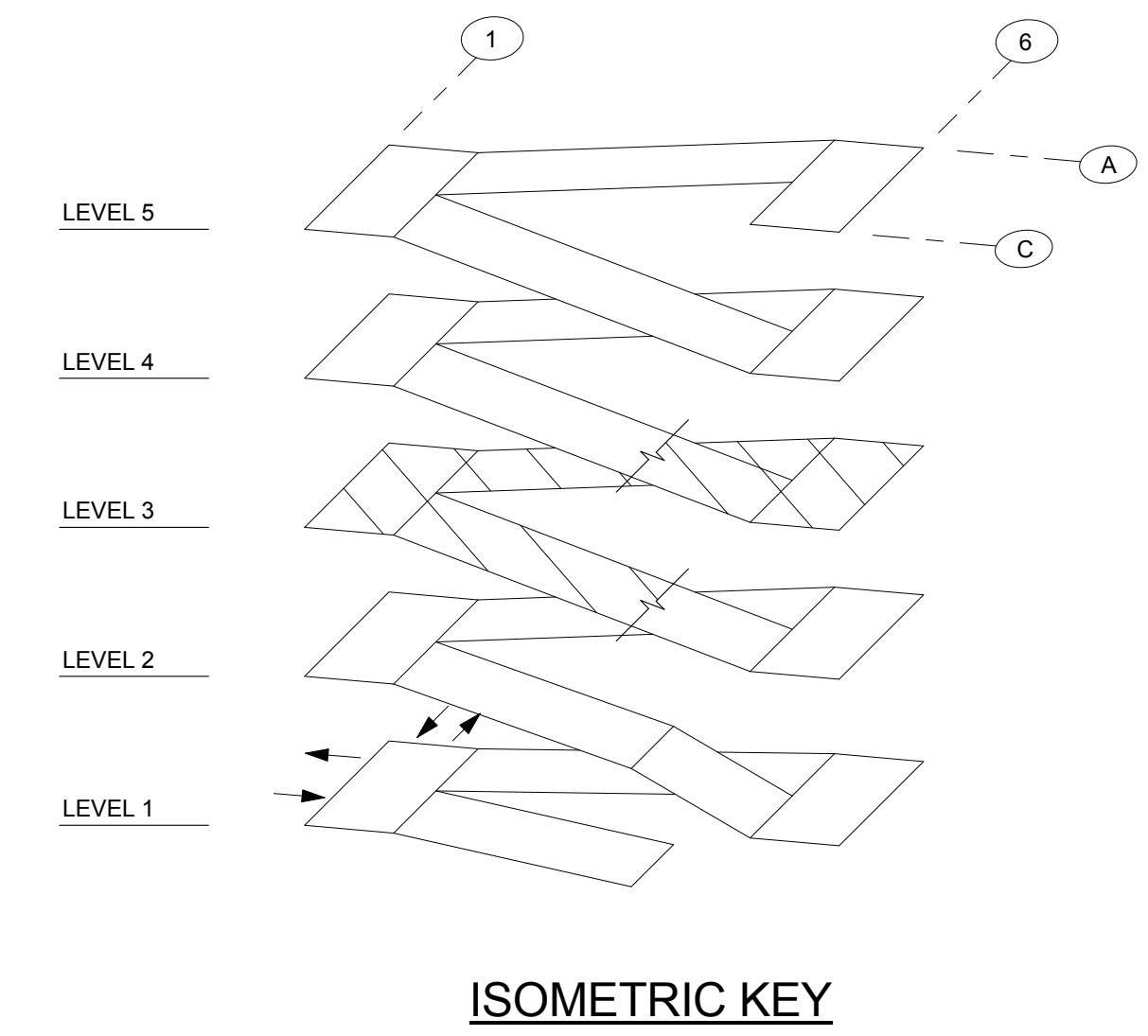
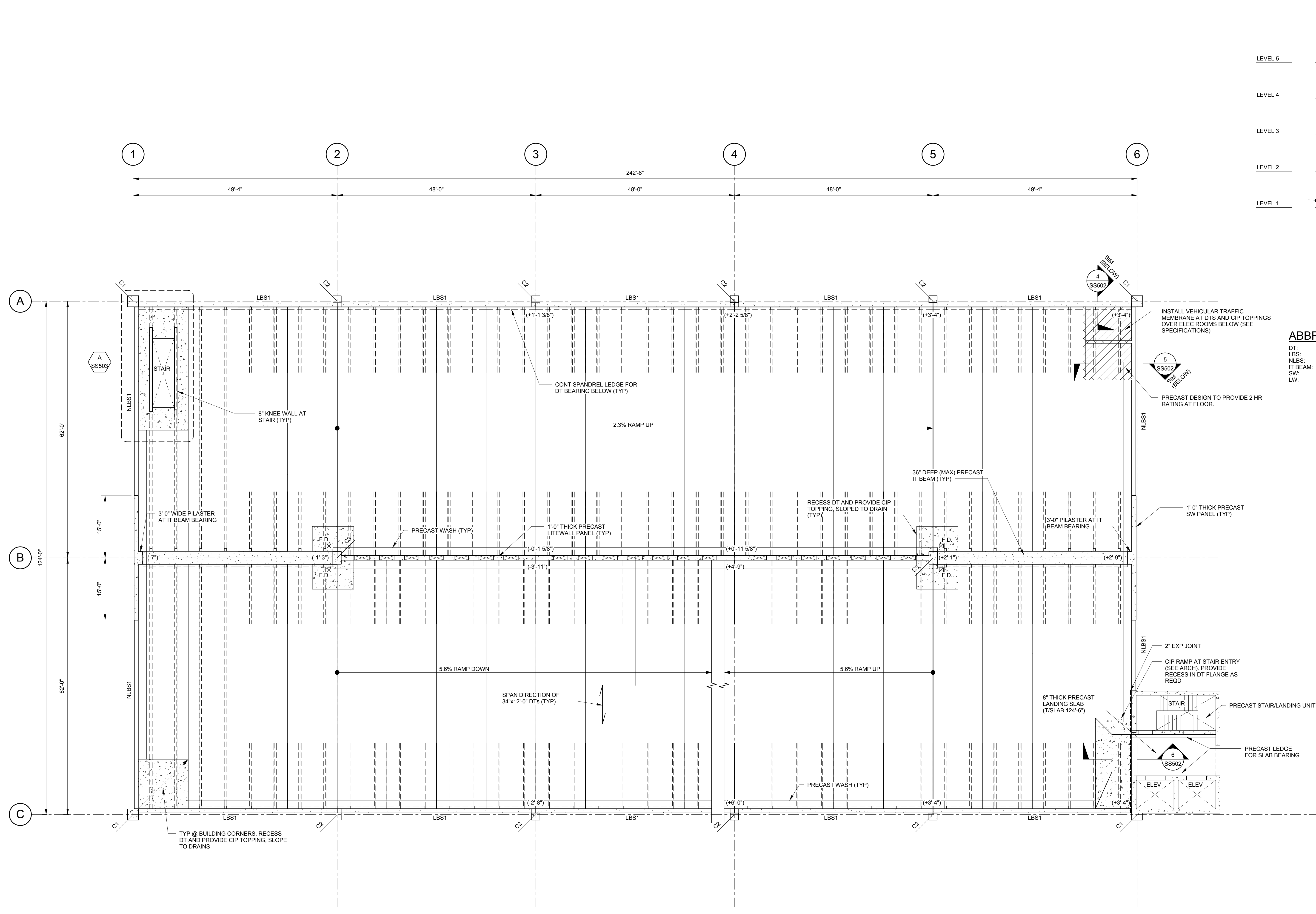
CANOPY ROOF FRAMING DETAIL

- NOTES:**
- 1/STL EL=112'-11" U.N.O.
 - ALL STEEL SHOWN TO BE GALVANIZED, U.N.O.
 - SEE ARCH FOR FINISHES AND ANY INFILL FRAMING REQD.

100% BID DOCUMENTS

Revisions: <table border="1"><tr><th>No.</th><th>Description</th><th>Date</th></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></table>	No.	Description	Date										CONSULTANTS: SPECIFICATIONS: Lowell Specifications 34 Marc Avenue Topsham, ME 04802 Tel: (207) 406-4001 Email: keith@lowellspecs.com	ARCHITECT/ENGINEERS: ARCHITECTURE INTERIOR DESIGN PLANNING P D T ARCHITECTS 49 DARTMOUTH STREET PORTLAND, ME 04101 207-775-1059 www.pdtarchs.com	Stantec 482 Payne Road Scarborough, ME 04074 Tel: (207) 883-3355 Fax: (207) 883-3376	BECKER STRUCTURAL ENGINEERS 75 York Street, Portland, Maine 04101 207.879.1838 ■ beckerstructural.com	Drawing Title STRUCTURAL - PLAN - LEVEL 2 Approved: Project Director	Project Title WEST ROXBURY GARAGE Location VAMC - West Roxbury, MA 02132 Date 03/31/2016 Checked CGW Drawn MSK	Project Number 523-400 Building Number ? Drawing Number SS102 Dwg: 43	Office of Facilities Management Department of Veterans Affairs
	No.	Description	Date																	

A three inches = one foot
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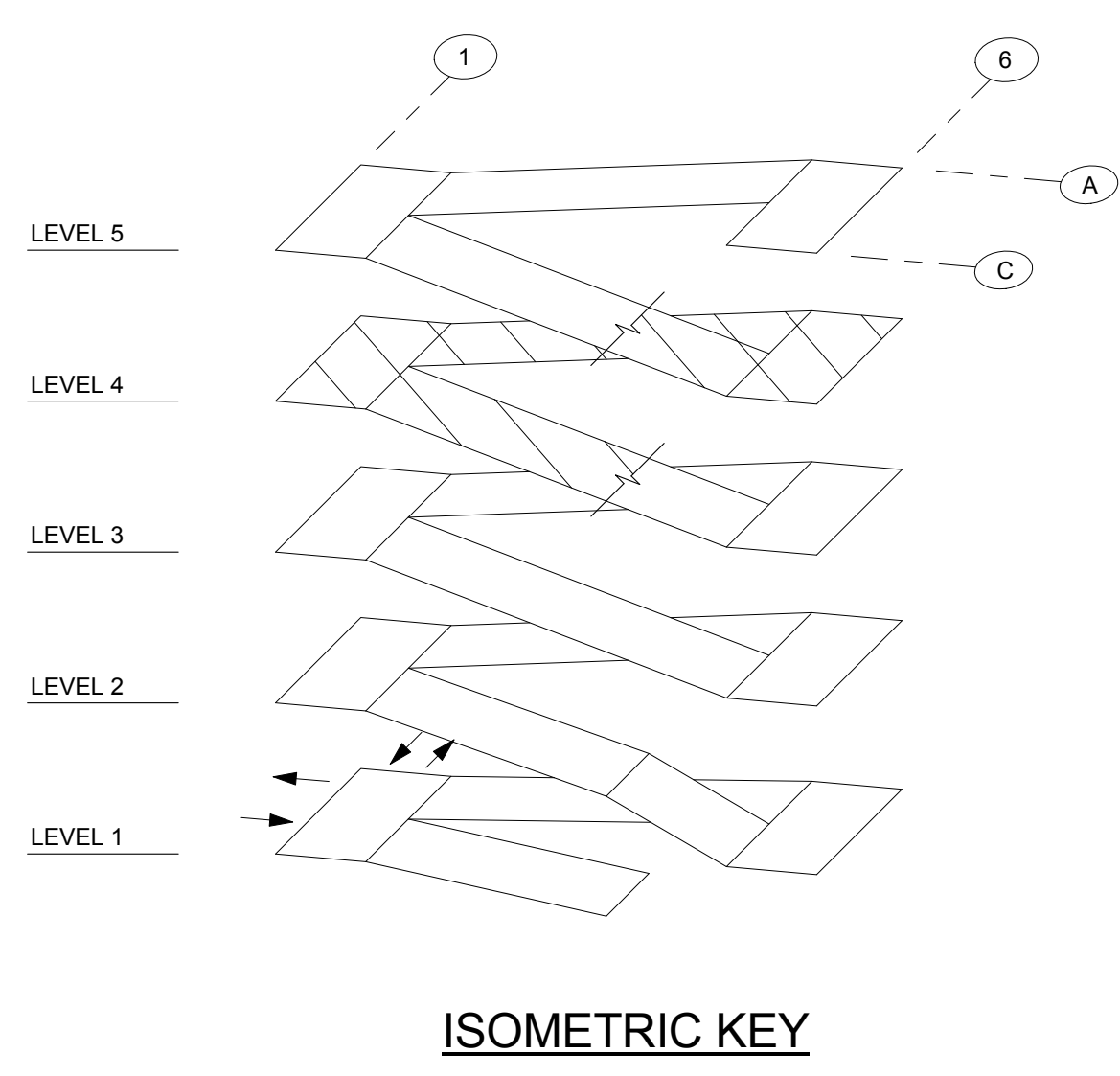
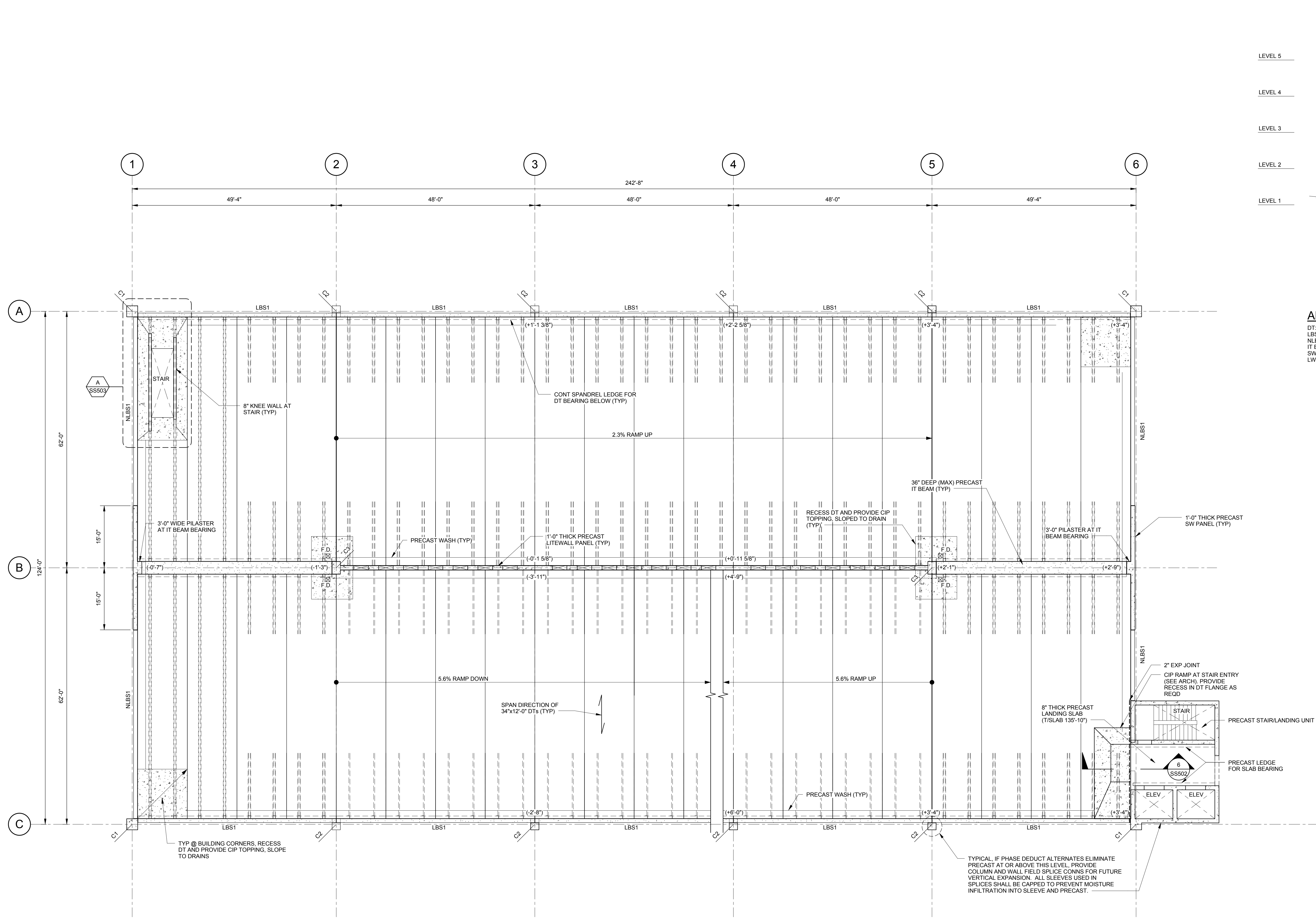
ABBREVIATIONS
DT: PRE-TOPPED DOUBLE-T
LBS: LOAD-BEARING SPANDREL
NLBS: NON LOAD-BEARING SPANDREL
IT BEAM: INVERTED TEE-BEAM
SW: SHEARWALL
LW: LITEWALL

LEVEL 3 PLAN
3/32"=1'-0"
NOTES:
1. (+X.XX') INDICATES TOP OF DECK ELEVATION RELATIVE TO REFERENCE ELEVATION (120'-10") U.N.O.
2. F.D. INDICATES FLOOR DRAIN (SEE TYP DETAIL DWG SS502)
3. PRECAST COLUMNS INDICATED BY C. ARE:
C1: 32" X 32"; C2: 24" X 32"; C3: 24" X 36" (PRECAST EL VERIFY)
4. REFER TO DRAWING SS501 FOR SPANDREL BEAMS INDICATED BY LBS_ AND NLBS_.

100% BID DOCUMENTS

<div>Revisions:</div> <table><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr></table>									<div>CONSULTANTS:</div> <div>SPECIFICATIONS:</div> <div>Lowell Specifications 34 Marc Avenue Topsham, ME 04802 Tel: (207) 406-4001 Email: keith@lowellspecs.com</div>	<div>ARCHITECT/ENGINEERS:</div> <div><div></div><div>ARCHITECTURE INTERIOR DESIGN PLANNING 49 DARTMOUTH STREET PORTLAND, ME 04101 207-775-1059 www.pdtarchs.com</div></div> <div><div></div><div>482 Payne Road Scarborough, ME 04074 Tel: (207) 883-3355 Fax: (207) 883-3376</div></div> <div><div></div><div>75 York Street, Portland, Maine 04101 207.879.1838 ■ beckerstructural.com</div></div>	<div>Drawing Title</div> <div>STRUCTURAL - PLAN - LEVEL 3</div> <div>Approved: Project Director</div>	<div>Project Title</div> <div>WEST ROXBURY GARAGE</div> <div>Location</div> <div>VAMC - West Roxbury, MA 02132</div> <div>Date</div> <div>03/31/2016</div> <div>Checked</div> <div>CGW</div> <div>Drawn</div> <div>MSK</div>	<div>Project Number</div> <div>523-400</div> <div>Building Number</div> <div>?</div> <div>Drawing Number</div> <div>SS103</div> <div>Dwg: 44</div>	<div>Office of Facilities Management</div> <div> Department of Veterans Affairs</div>

A
three inches = one foot
B
one and one half inches = one foot
C
one inch = one foot
D
three quarters inch = one foot
E
one half inch = one foot
F
one quarter inch = one foot
one eighth inch = one foot
one eighth inch = one foot



ABBREVIATIONS

DT: PRE-TOPPED DOUBLE-TEE

LBS: LOAD-BEARING SPANDREL

NLBS: NON LOAD-BEARING SPANDREL

IT BEAM: INVERTED TEE-BEAM

SW: SHEARWALL

LW: LITEWALL

LEVEL 4 PLAN

3/32"=1'-0"

NOTES:

1. (± X'-XX") INDICATES TOP OF DECK ELEVATION RELATIVE TO REFERENCE ELEVATION (132'-2") U.N.O.

2. F.D. INDICATES FLOOR DRAIN (SEE TYP DETAIL DWG SS502)

3. PRECAST COLUMNS INDICATED BY C ARE:

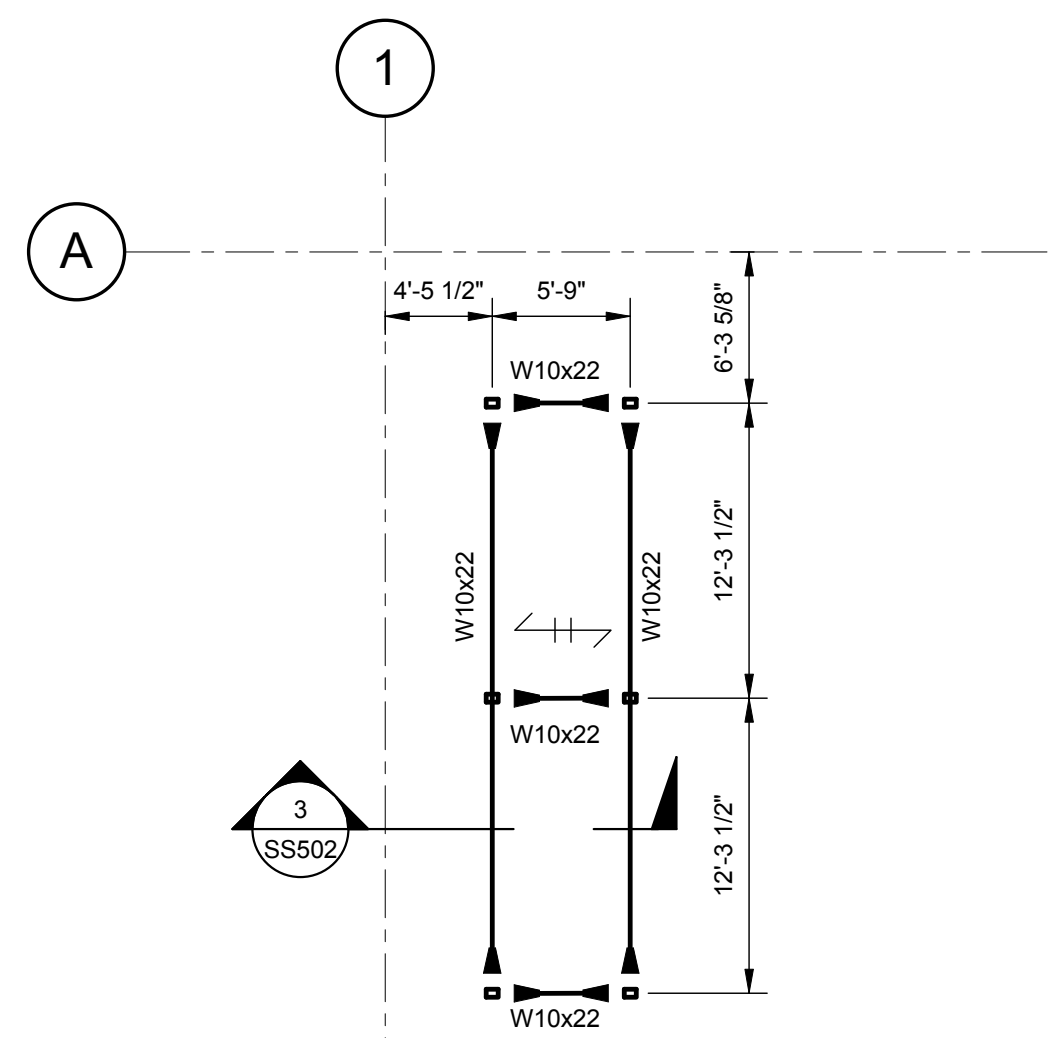
C1- 32" X 32" - C2- 24" X 32" - C3- 24" X 36" (PRECAST EL VERIFY)

4. REFER TO DRAWING SS501 FOR SPANDREL BEAMS INDICATED BY LBS_ AND NLBS_.

100% BID DOCUMENTS

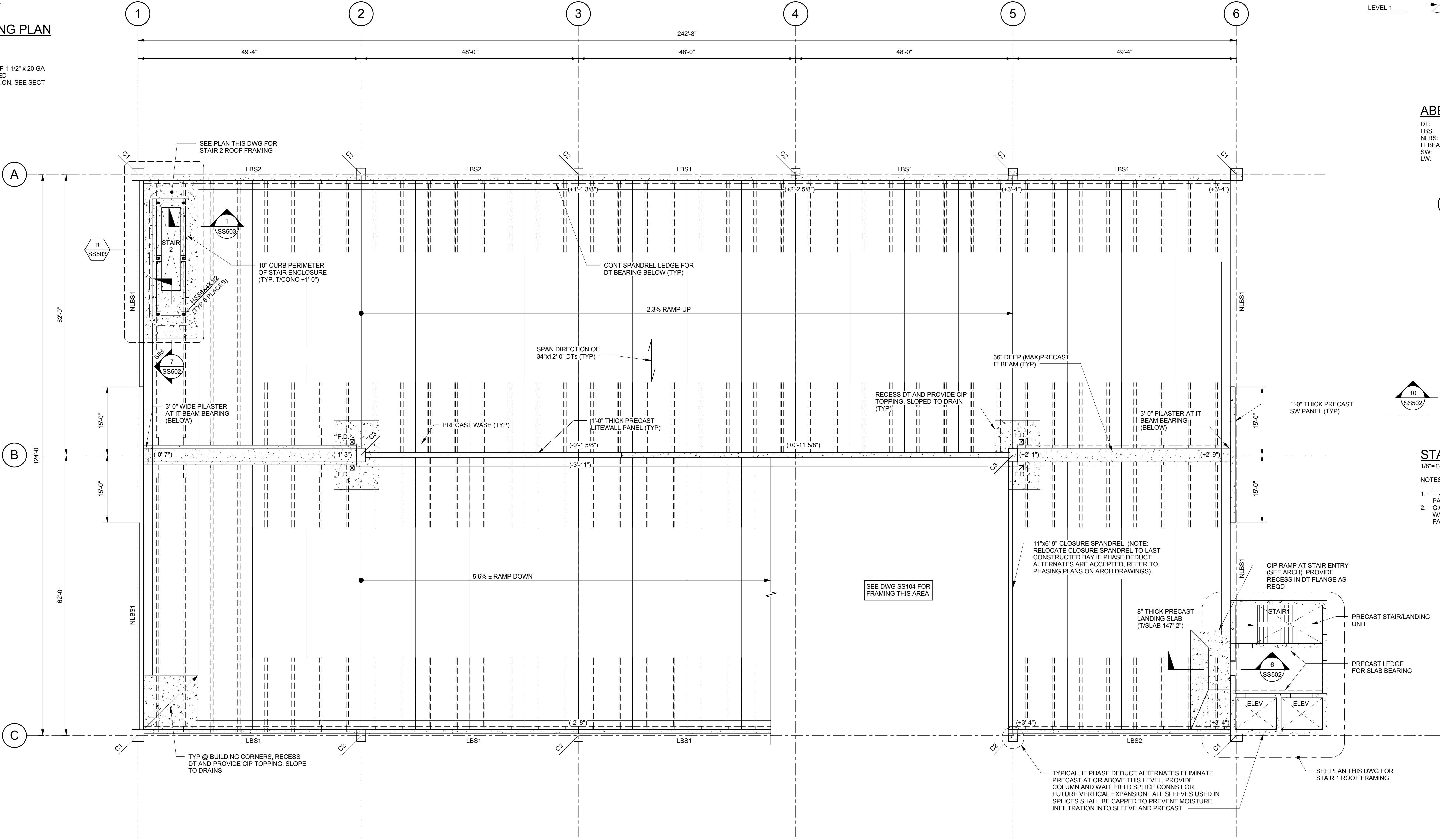
<div>Revisions:</div> <div>Date</div>	<div>CONSULTANTS:</div> <div>SPECIFICATIONS:</div> <div>Lowell Specifications 34 Marc Avenue Topsham, ME 04802 Tel: (207) 406-4001 Email: keith@lowellspecs.com</div>	<div></div> <div>ARCHITECT/ENGINEERS:</div> <div><div><div>PDT ARCHITECTS</div></div><div><div>49 DARTMOUTH STREET PORTLAND, ME 04101 207-775-1059 www.pdtarchs.com</div><div><div>482 Payne Road Scarborough, ME 04074 Tel: (207) 883-3355 Fax: (207) 883-3376</div></div><div><div><div>BECKER STRUCTURAL ENGINEERS</div></div><div><div>75 York Street, Portland, Maine 04101 207.879.1838 ■ beckerstructural.com</div></div></div></div></div>	<div>Drawing Title</div> <div>STRUCTURAL - PLAN - LEVEL 4</div> <div>Approved: Project Director</div>	<div>Project Title</div> <div>WEST ROXBURY GARAGE</div> <div>Location</div> <div>VAMC - West Roxbury, MA 02132</div> <div>Date</div> <div>03/31/2016</div> <div>Checked</div> <div>CGW</div> <div>Drawn</div> <div>MSK</div>	<div>Project Number</div> <div>523-400</div> <div>Building Number</div> <div>?</div> <div>Drawing Number</div> <div>SS104</div> <div>Dwg: 45</div>	<div>Office of Facilities Management</div> <div>Department of Veterans Affairs</div>

three inches = one foot
one and one half inches = one foot
one inch = one foot
one quarter inch = one foot
three quarters inch = one foot
one half inch = one foot
one eighth inch = one foot
one quarter inch = one foot
one eighth inch = one foot
one eighth inch = one foot



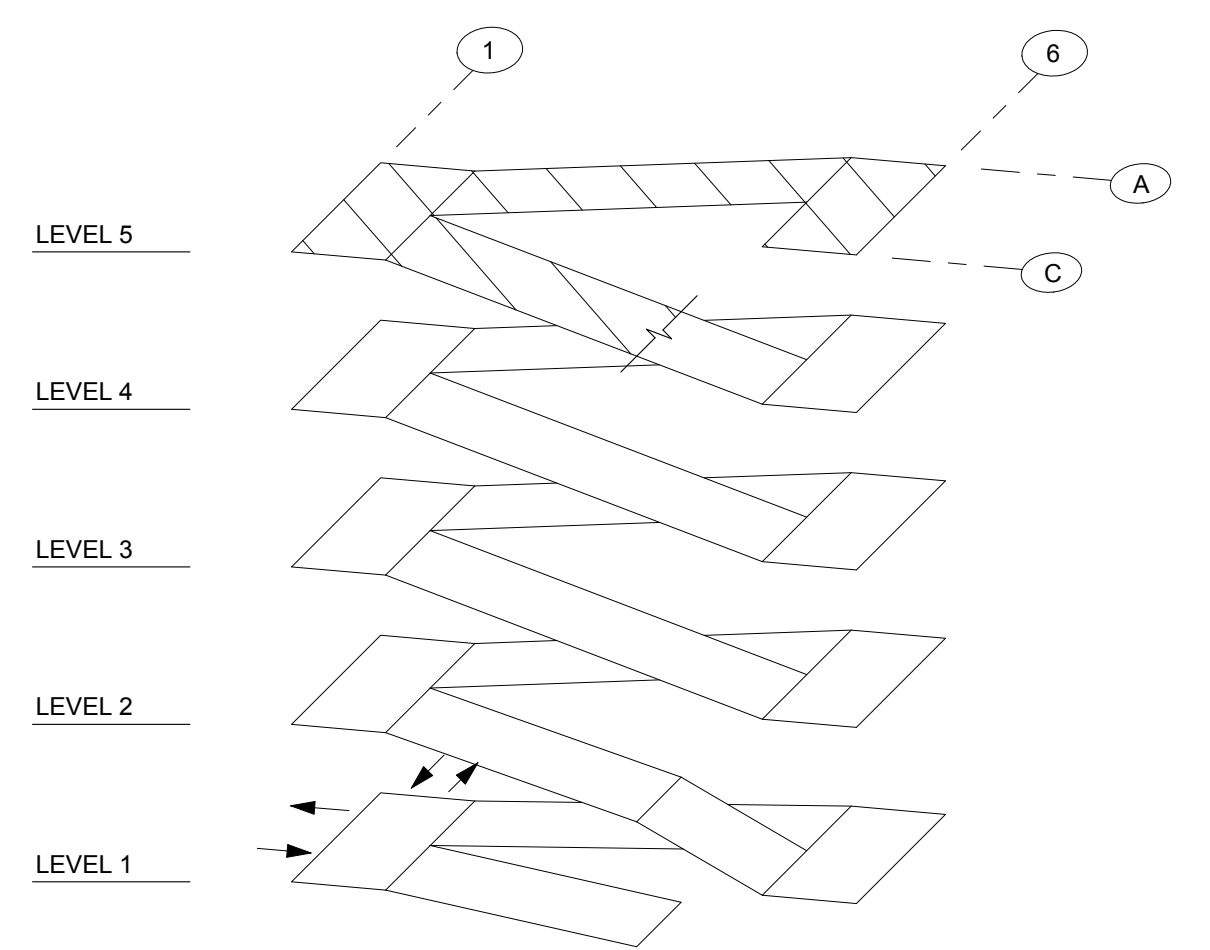
STAIR 2 ROOF FRAMING PLAN

- NOTES:
1. INDICATES SPAN DIRECTION OF 1 1/2" x 20 GA TYPE B ROOF DECK PAINTED
 2. INDICATES MOMENT CONNECTION, SEE SECT 3/SS502
 3. T/STL EL= 153'-10" U.N.O.



LEVEL 5 PLAN

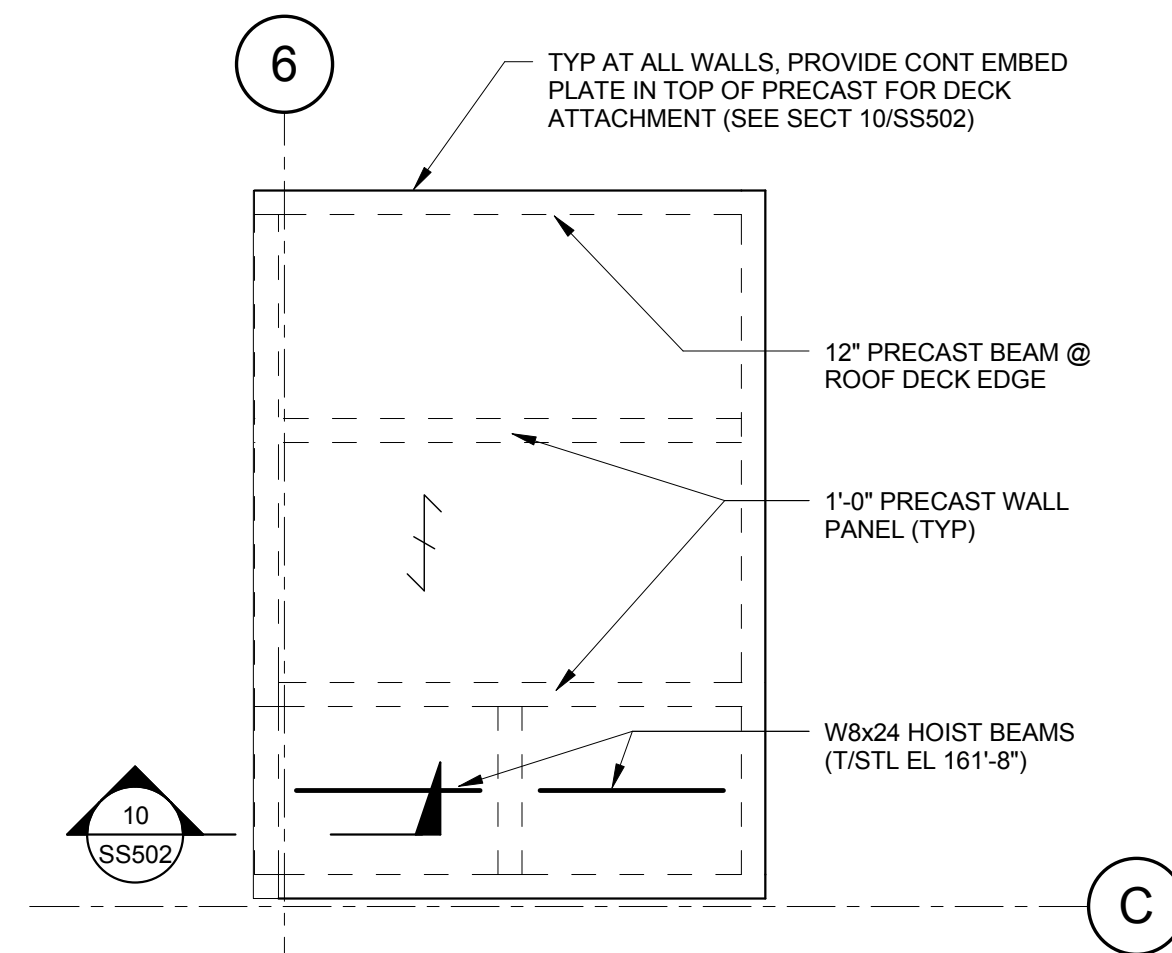
- NOTES:
1. (± X'-XX") INDICATES TOP OF DECK ELEVATION RELATIVE TO REFERENCE ELEVATION (143'-8") U.N.O.
 2. F.D. INDICATES FLOOR DRAIN (SEE TYP DETAIL DWG SS502)
 3. PRECAST COLUMNS INDICATED BY C ARE:
C1: 32" X 32"; C2: 24" X 32"; C3: 24" X 36" (PRECAST EL VERIFY)
 4. REFER TO DRAWING SS501 FOR SPANDREL BEAMS INDICATED BY LBS_ AND NLBS_.



ISOMETRIC KEY

ABBREVIATIONS

- DT: PRE-TOPPED DOUBLE-TEE
LBS: LOAD-BEARING SPANDREL
NLBS: NON-LOAD-BEARING SPANDREL
IT BEAM: INVERTED TEE-BEAM
SW: SHEARWALL
LW: LITEWALL



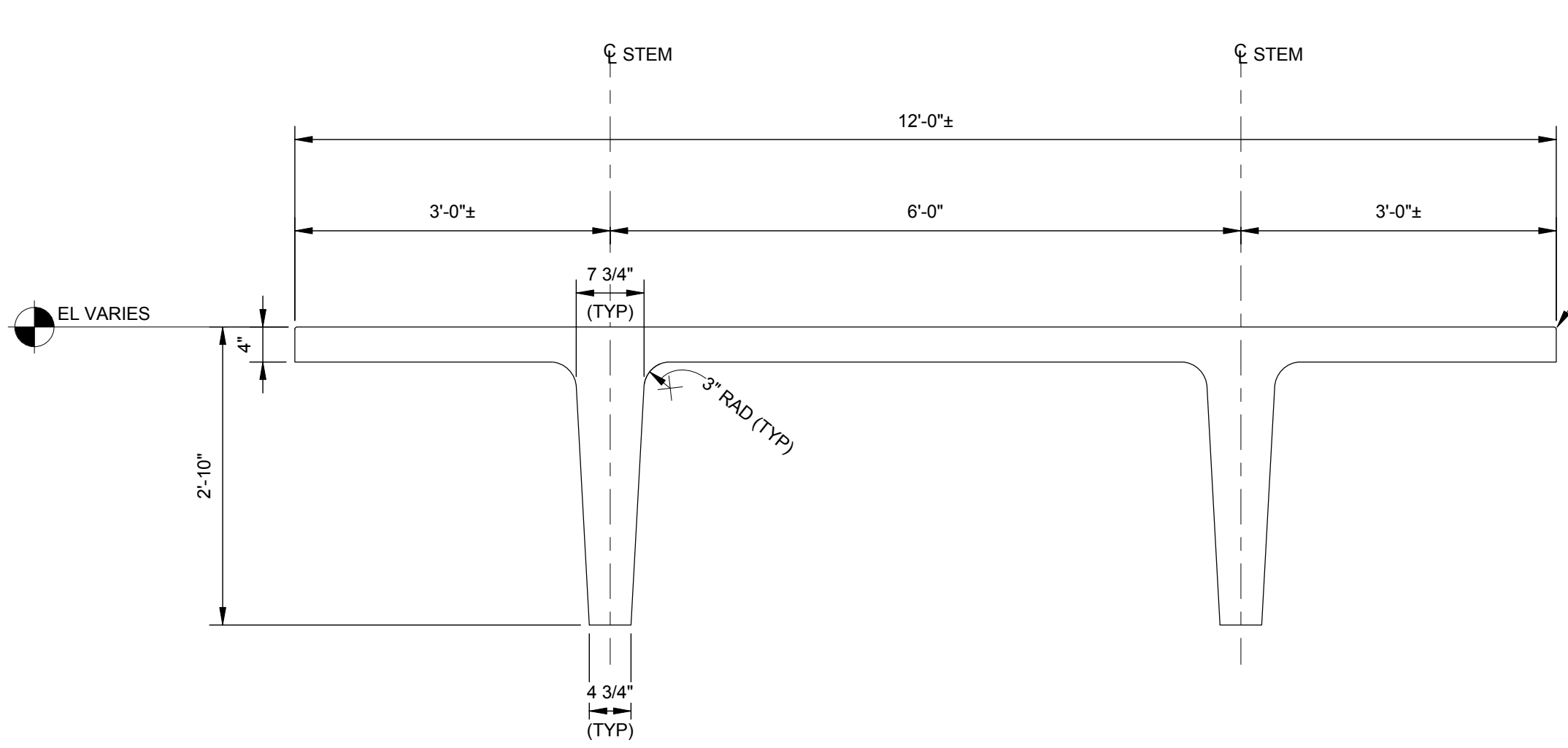
STAIR 1 ROOF FRAMING PLAN

- NOTES:
1. INDICATES SPAN DIRECTION OF 3"X20 ROOF DECK. PAINTED. BOTTOM OF ROOF DECK ELEVATION 161'-1".
 2. G.C. VERIFY ROOF DECK AND TOP OF HOIST ELEVATIONS W/PURCHASED ELEVATOR PRIOR TO STEEL AND PRECAST FABRICATION.

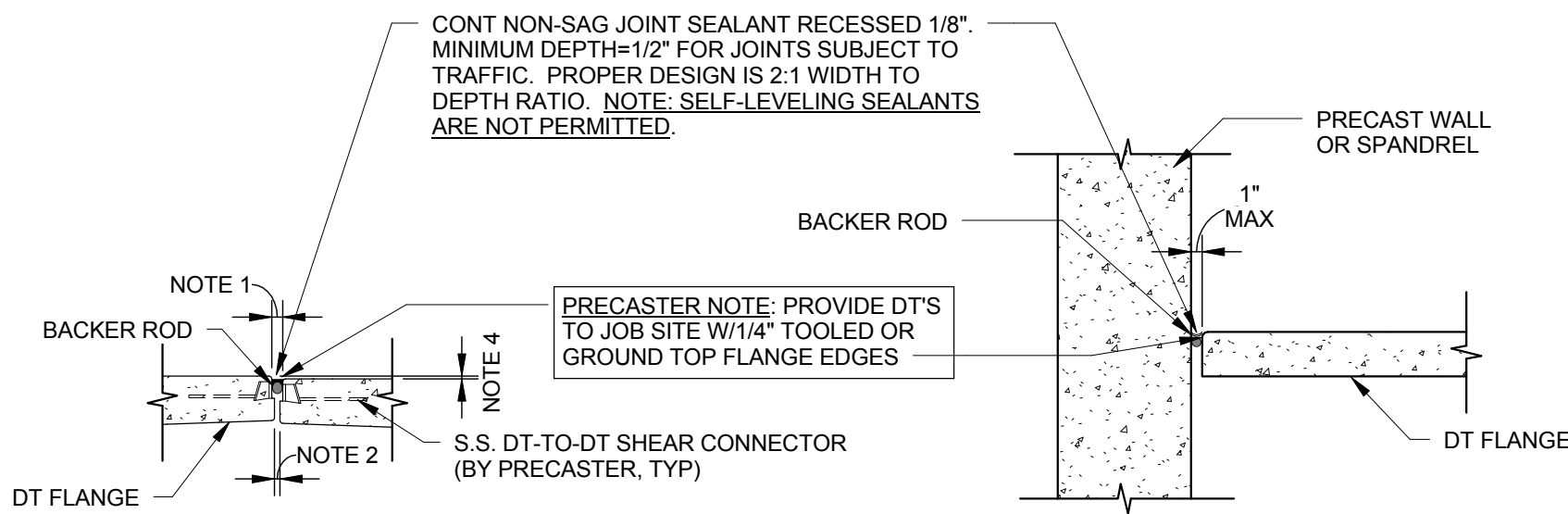
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Revisions:	Date	CONSULTANTS:			ARCHITECT/ENGINEERS:		 <p>ARCHITECTURE INTERIOR DESIGN PLANNING</p> <p>49 DARTMOUTH STREET PORTLAND, ME 04101 207-775-1059 www.pdtarchs.com</p>	 <p>482 Payne Road Scarborough, ME 04074 Tel: (207) 883-3355 Fax: (207) 883-3376</p>	 <p>75 York Street, Portland, Maine 04101 207.879.1838 ■ beckerstructural.com</p>	Drawing Title STRUCTURAL - PLAN - LEVEL 5		Project Title WEST ROXBURY GARAGE		Project Number 523-400		Office of Facilities Management 
		Approved: Project Director			Location VAMC - West Roxbury, MA 02132					Building Number ?						
		Date 03/31/2016			Checked CGW					Drawn MSK		Drawing Number SS105				
		Dwg: 46														

A three inches = one foot
B one and one half inches = one foot
C one inch = one foot
D three quarters inch = one foot
E one half inch = one foot
F one quarter inch = one foot
G one eighth inch = one foot



TYP PRE-TOPPED 12' DOUBLE TEE SECTION
3/4"=1'-0"



DETAIL AT DT-DT
N.T.S.

DETAIL AT DT-WALL/DT-BEAM
N.T.S.

TYP PRECAST JOINT DETAILS

NOTES:

GENERAL:

- MINIMUM JOINT WIDTH=1/4". MAXIMUM JOINT WIDTH=1".
- 1/4" (+1/2", -0") JOINT BETWEEN D.T. FLANGES TYPICAL. 3/8" (+1/2", -0") AT RAMPS.
- TOLERANCES:
FABRICATION: WIDTH OF D.T.= ±1/4"
ERECTION: JOINT WIDTH (41FT TO 60FT)= ±3/4"
TOTAL TOLERANCE= ±1"
- ALIGNMENT TOLERANCES:
FABRICATION: DIFFERENTIAL CAMBER (SAME DESIGN)=3/4" MAX
DIFFERENTIAL CAMBER=1/4" IN DRIVE LANES (REF 2)
ERECTION: DIFFERENTIAL TOP ELEVATION=1/4"

PREPARATION:

- PROVIDE 1/4" RADIUS TOoled OR GROUND EDGE OF CONCRETE.
- ALL JOINT SURFACES MUST BE STRUCTURALLY SOUND, FULLY CURED AND CLEAN, FREE OF DIRT, MOISTURE, LOOSE PARTICLES, OIL, GREASE, ASPHALT, TAR, PAINT, WAX, RUST, WATERPROOFINGS, CURING AND PARTING COMPOUNDS AND MEMBRANE MATERIALS.
- CLEAN BY GRINDING OR SANDBLASTING TO EXPOSE A SOUND SURFACE FREE OF CONTAMINATION AND LANTANCE.
- ALL JOINTS SHALL BE FREE OF MOISTURE AND/OR FROST.

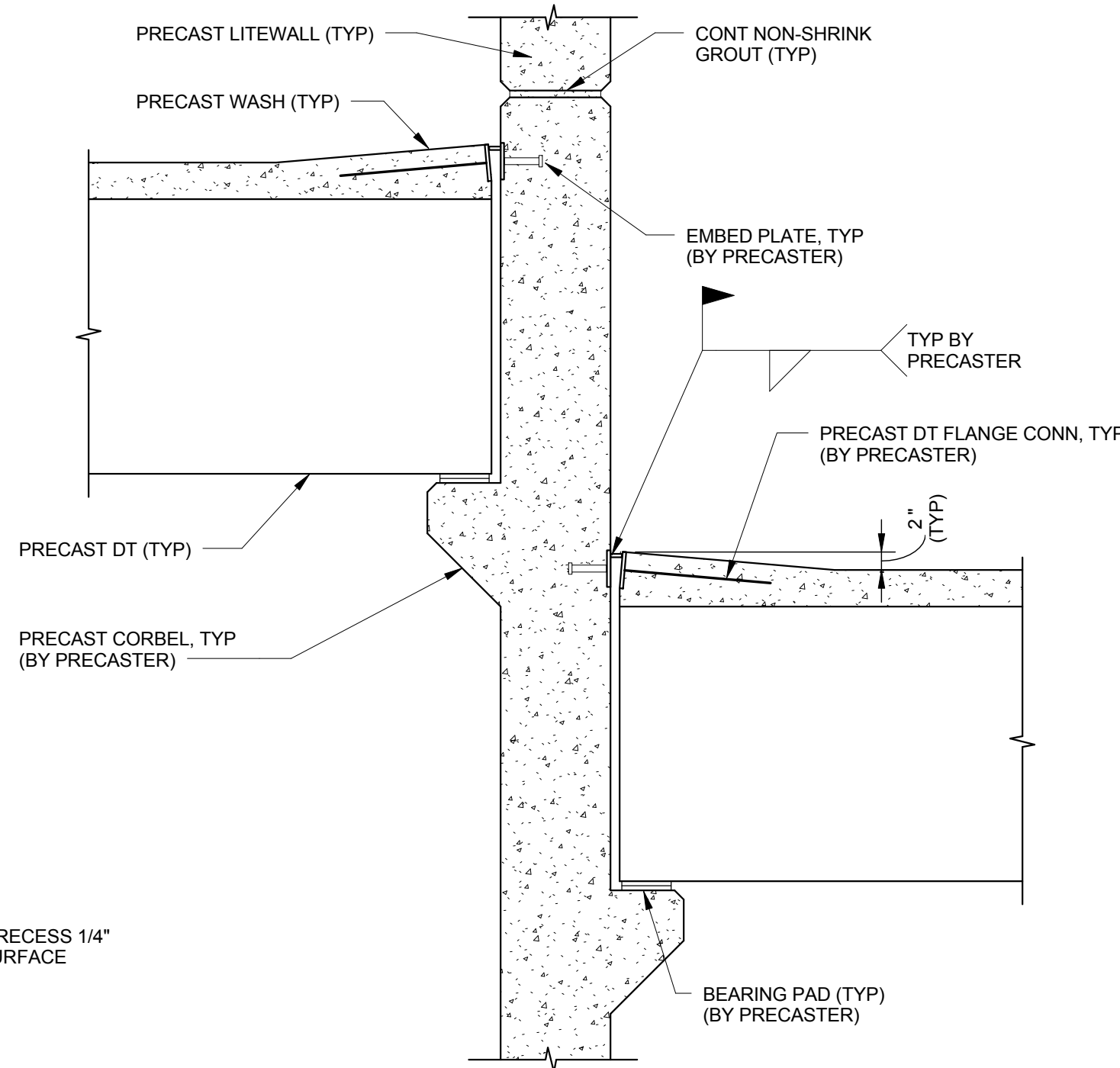
PRIMER:

- IF PRIMER IS NOT REQUIRED BY MANUFACTURER, PROVIDE WRITTEN STATEMENT FROM MANUFACTURER INDICATING THAT THIS WILL NOT VOID MANUFACTURER'S WARRANTY.
- PREPARE AND ALLOW FOR PRIMER TO CURE PROPERLY, PRIOR TO INSTALLING SEALANT.
- PROVIDE A PRIMER APPROVED BY SEALANT MANUFACTURER.
- INSTALLATION SHALL CONFORM TO MANUFACTURERS REQUIREMENTS.

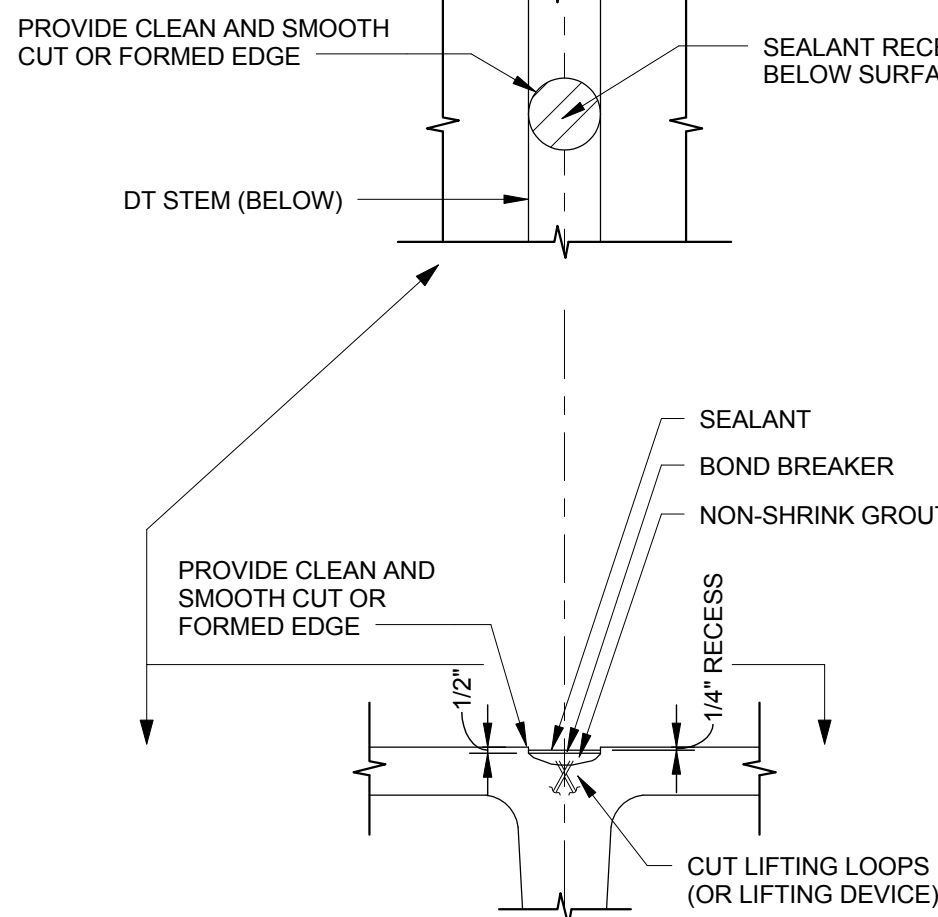
SEALANT INSTALLATION:

- INSPECT ALL SURFACES PRIOR TO INSTALLING SEALANT. INSTALLATION OF SEALANT IMPLIES ACCEPTANCE OF SUBSTRATE CONDITIONS.
- SUBSTRATE TEMPERATURE SHALL BE BETWEEN 40°F TO 70°F. INSTALLATION OF SEALANT OUTSIDE THIS RANGE SHALL BE PERMITTED ONLY IF WRITTEN INSTALLATION PROCEDURES ARE SUBMITTED FROM SEALANT MANUFACTURER WITH ASSURANCE THAT THIS INSTALLATION WILL NOT VOID MATERIAL & INSTALLATION WARRANTY.
- INSTALL BOND BREAKER TAPE OR BACKER ROD AT BOTTOM OF JOINT. TAPE SHALL BE A MINIMUM OF 3/4 THE JOINT WIDTH.
- REFER TO MANUFACTURERS DATA SHEETS AND MATERIAL SAFETY DATA SHEETS FOR ANY NECESSARY PRECAUTIONS REGARDING EXPOSURE TO ALL MATERIALS.
- MULTIPLE COMPONENT PRODUCTS SHALL BE MIXED IN STRICT ACCORDANCE WITH SEALANT MANUFACTURERS RECOMMENDATIONS. MIX ONLY AS MUCH SEALANT AS CAN BE INSTALLED WITHIN SPECIFIED POT-LIFE OF THE MATERIAL.
- SELECT PROPER NOZZLE FOR JOINT BEING GUNNED AND HOLD GUN AT 45° ANGLE FROM JOINT. PLACE NOZZLE INTO BOTTOM OF JOINT AND FILL ENTIRE JOINT. KEEPING NOZZLE DEEP IN SEALANT. CONTINUE WITH STEADY FLOW OF SEALANT PRECEDING THE NOZZLE TO AVOID AIR ENTRAPMENT.
- TOOL JOINTS AS REQUIRED WITH A DRY TOOL, FREE OF TOOLING AIDS. PROVIDE A CONCAVE SHAPE WITH RECESS AS NOTED IN THE TYPICAL DETAILS.
- CURING: ALL JOINTS MUST BE PROTECTED FROM TRAFFIC AND TOTAL WATER IMMERSION FOR THE DURATION OF THE MANUFACTURERS SPECIFIED CURE TIME. CONTRACTOR SHALL SUPPLY ALL NECESSARY PROTECTION AGAINST MOISTURE AND ALLOW UNINTERRUPTED TRAFFIC FLOW THROUGH THE GARAGE.
- CLEAN UP SHALL CONFORM TO MANUFACTURER'S RECOMMENDATIONS AND ALL GOVERNMENTAL REGULATIONS.

PRECASTER NOTE:
PROVIDE DT'S TO JOB SITE
W/1/4" TOoled OR GROUND
TOP FLANGE EDGES



TYP DT/LITEWALL DETAIL
3/4"=1'-0"



TYP LIFTING POCKET DETAIL
N.T.S.

NOTES:

PREPARATION:

- STRAND LIFTING LOOP SHOULD BE CUT FLUSH, IF POSSIBLE, TO THE BOTTOM OF POCKET. CLEAN RUST FROM STRAND AND COAT WITH COLD GALVANIZING.
- REMOVE LOOSE, DETERIORATED AND BOND INHIBITING MATERIALS FROM SURFACE. PREPARATION WORK SHALL BE DONE BY HIGH PRESSURE WATER BLAST, SHOT BLAST OR OTHER APPROPRIATE MECHANICAL MEANS TO OBTAIN AN EXPOSED AGGREGATE SURFACE WITH MINIMUM SURFACE PROFILE OF ±1/8".
- SATURATE SURFACE WITH CLEAN WATER. SUBSTRATE SHOULD SATURATE SURFACE DRY (SSD) WITH NO STANDING WATER DURING APPLICATION.

INSPECTION:

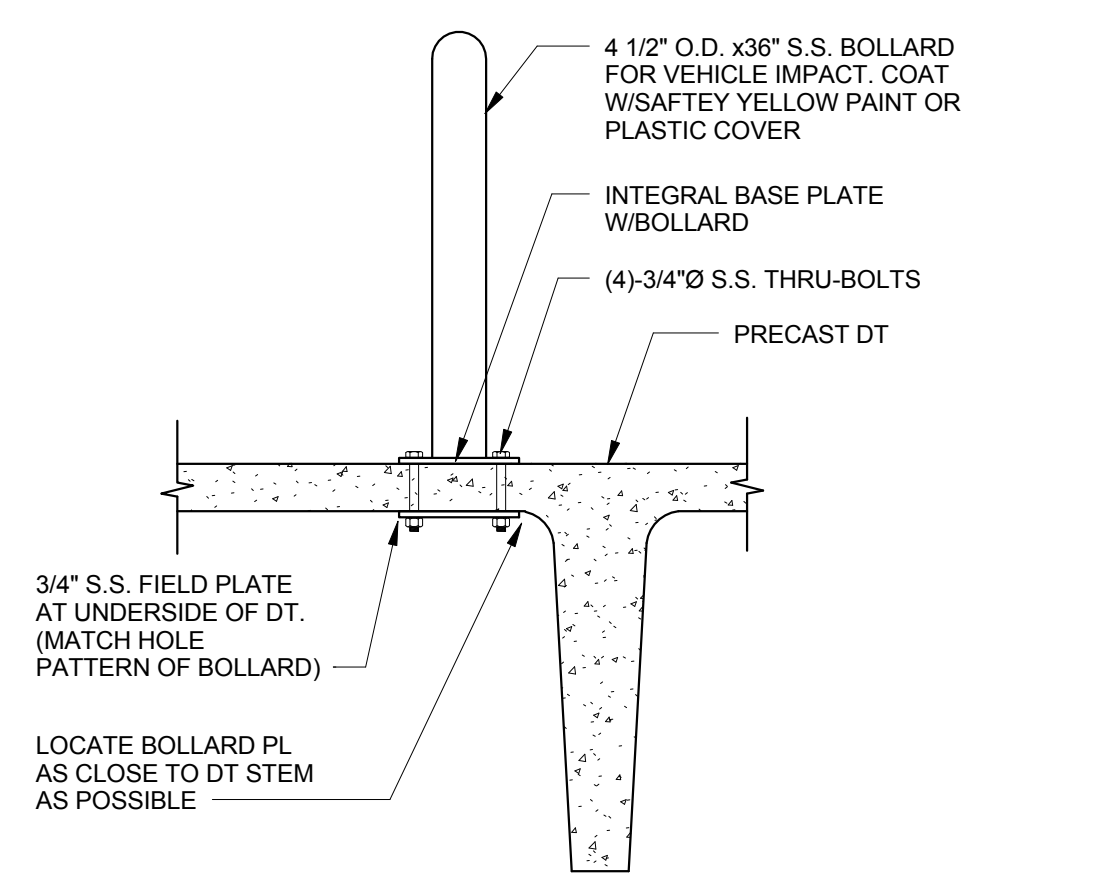
- INSPECT ALL CONCRETE SURFACES PRIOR TO APPLICATION OF PRIMERS/ADHESIVES TO ENSURE PROPER PREPARATION AND SURFACE DRYING.
- CONFORM TO ALL THE MANUFACTURER'S PREPARATION INSTRUCTIONS.

GROUT:

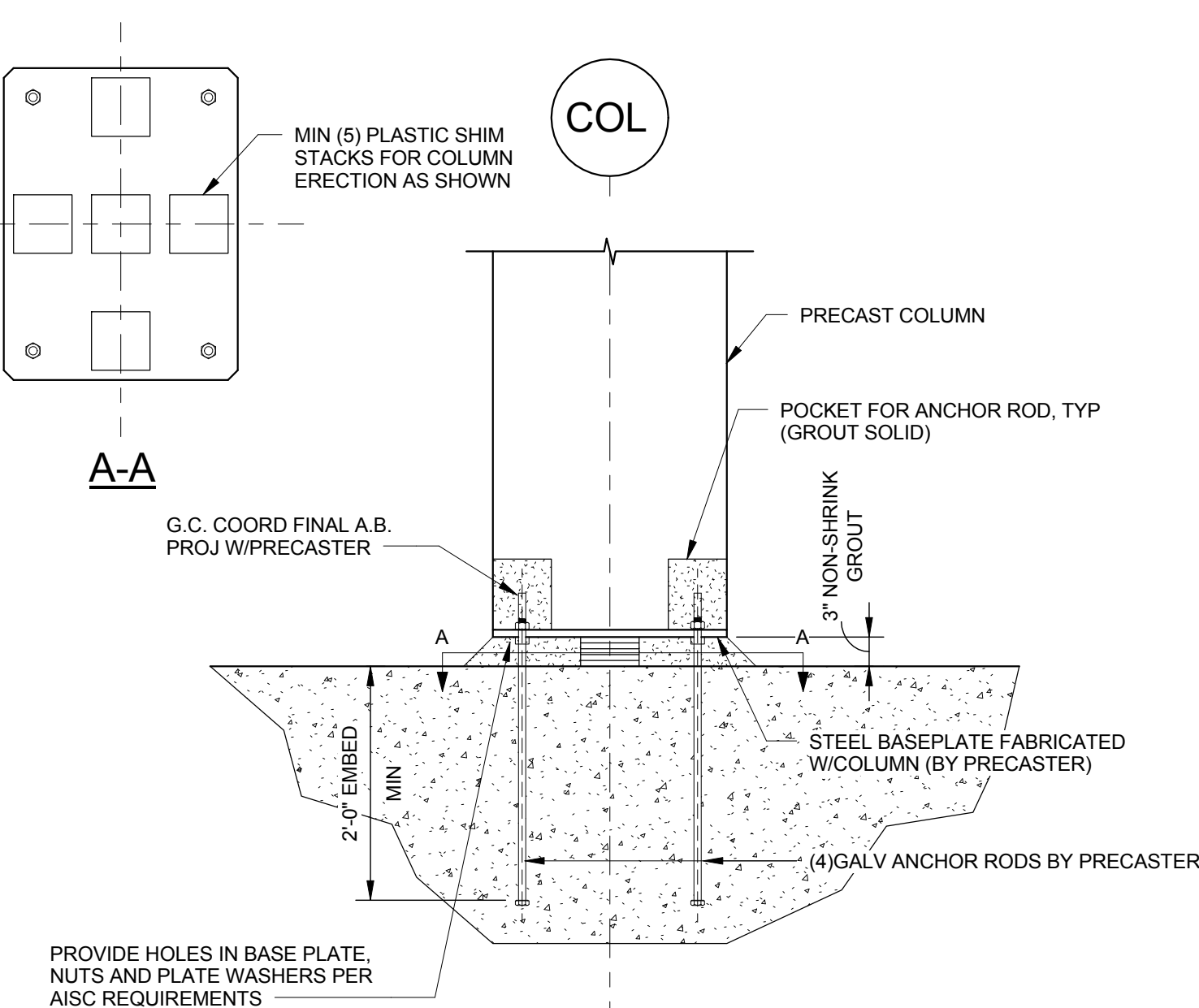
- ALL REINFORCEMENT SHALL BE PRIMED OR EPOXY COATED WITH A PRODUCT COMPATIBLE WITH THE CONCRETE PATCH MATERIAL.
- APPLY PRIMER TO CONCRETE SUBSTRATE COMPATIBLE WITH GROUT.
- INSTALL GROUT AS PER MANUFACTURER'S RECOMMENDATIONS. DO NOT EXCEED THE MAXIMUM LIFT THICKNESS SPECIFIED BY MANUFACTURER.
- CURING SHALL BE AS SPECIFIED BY MANUFACTURER AND AS PER ACI.

JOINT SEALANT INSTALLATION:

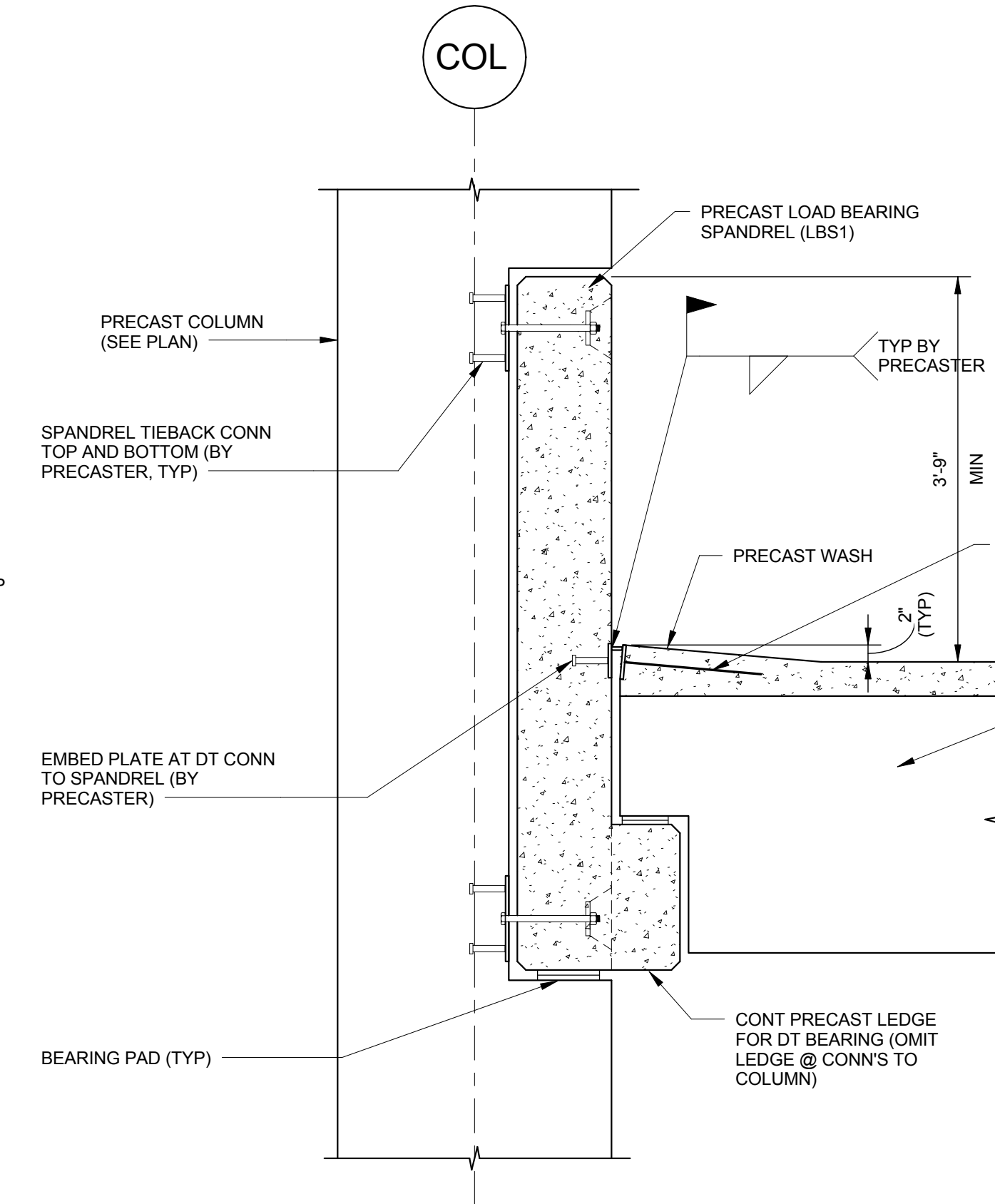
- ENSURE ALL FREE MOISTURE HAS BEEN REMOVED AND REPAIR HAS BEEN PROPERLY CURED.
- INSTALL BOND BREAKER.
- PREPARE AND ALLOW FOR PRIMER TO CURE PROPERLY PRIOR TO INSTALLING SEALANT.
- PROVIDE A PRIMER APPROVED BY SEALANT MANUFACTURER.
- INSTALLATION SHALL CONFORM TO MANUFACTURERS REQUIREMENTS.
- INSTALL SEALANT EVENLY AND RECESS 1/4" BELOW SURFACE. DO NOT OVERFILL JOINT.



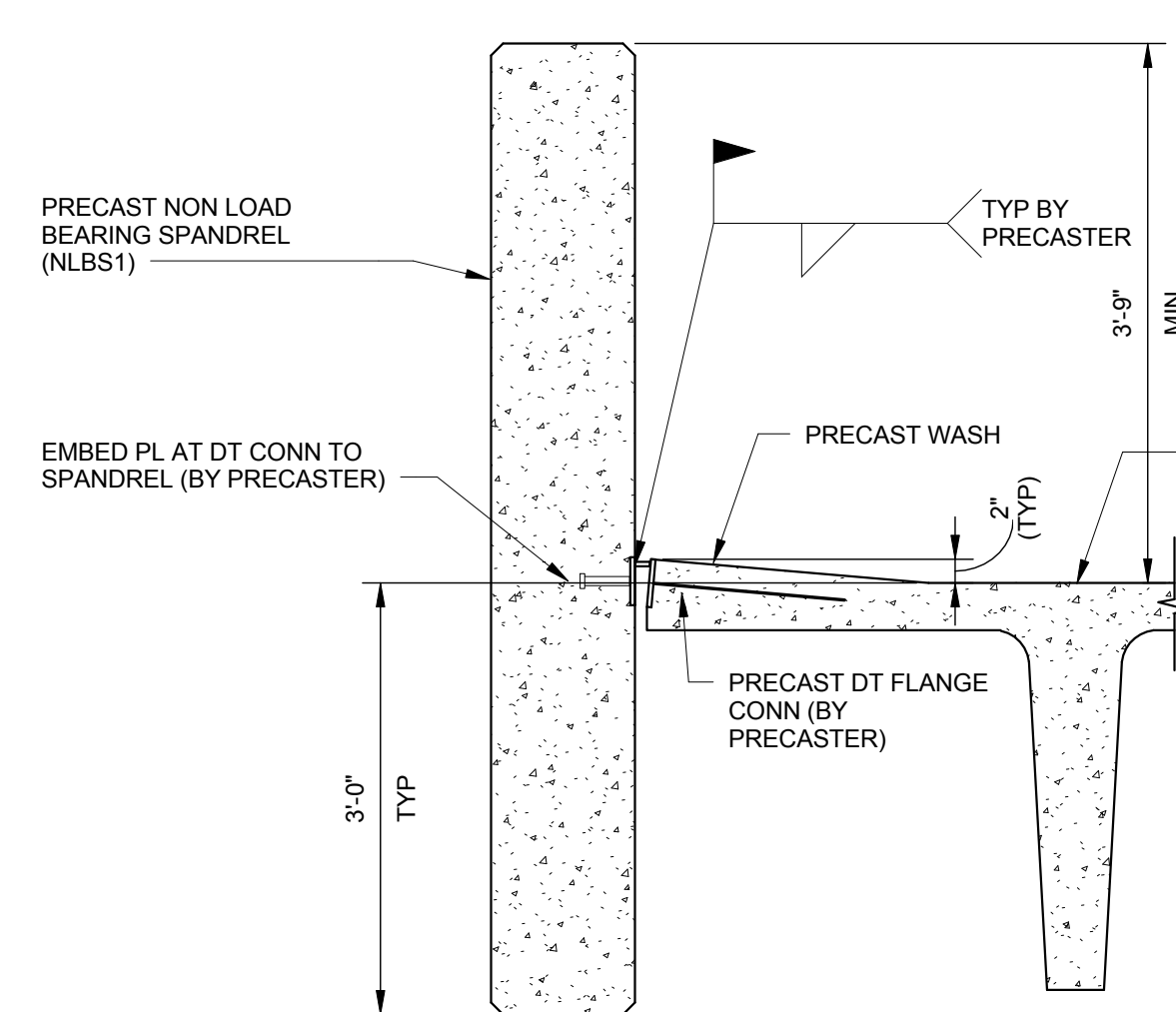
TYP BOLLARD DETAIL AT DOUBLE TEE
3/4"=1'-0"



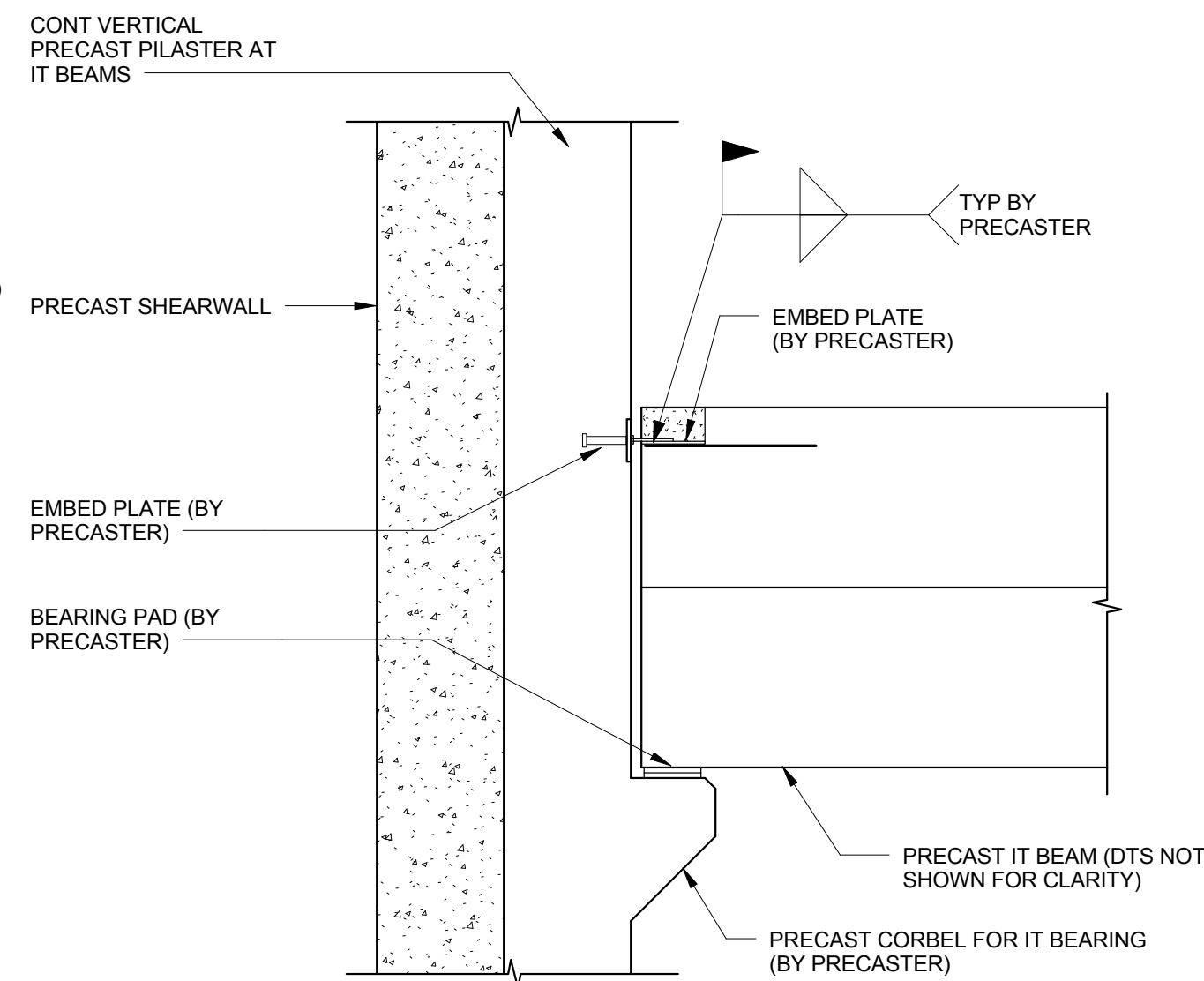
TYP PRECAST COL BASE DETAIL
3/4"=1'-0"



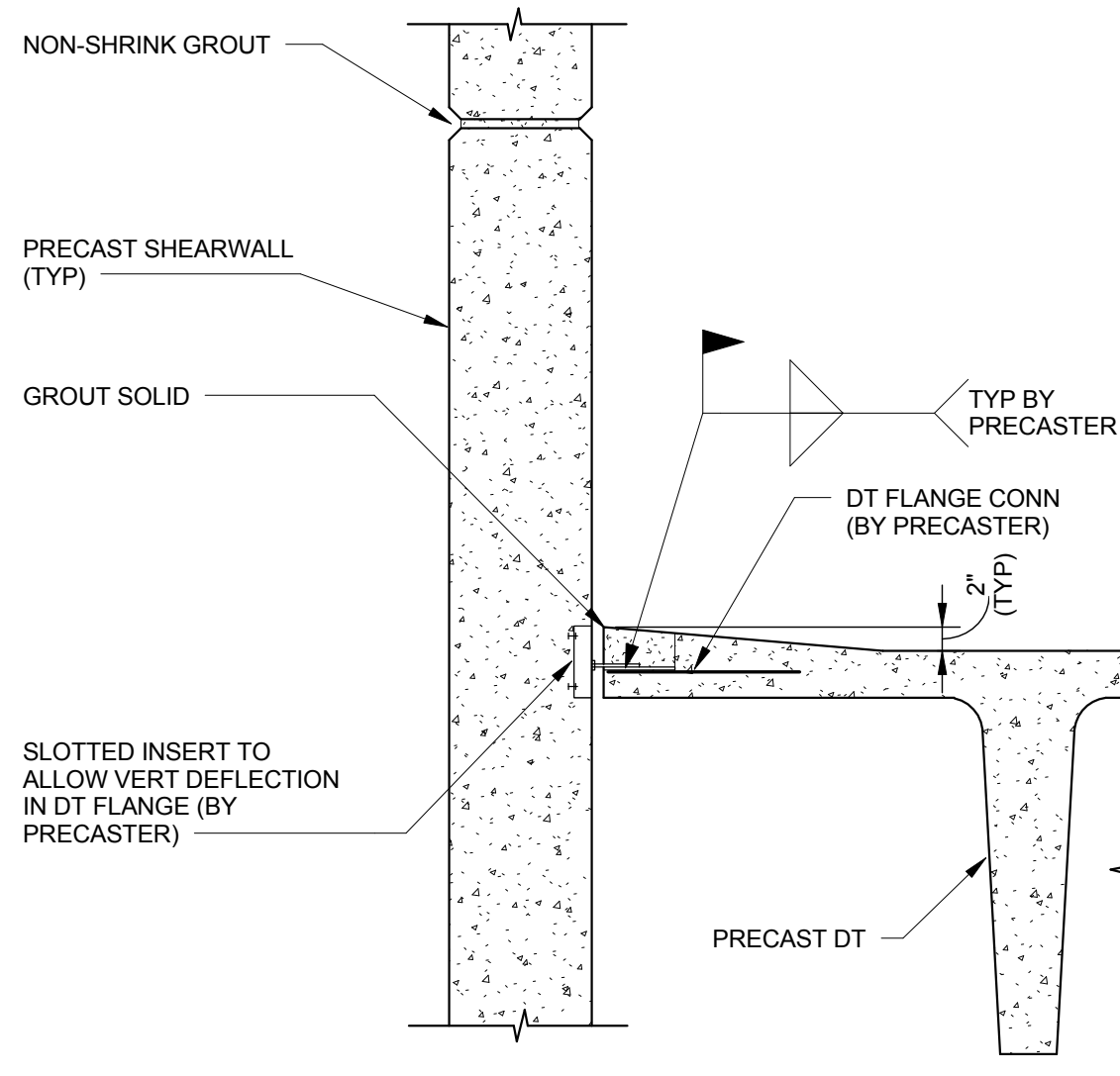
TYP DT/LBS1 DETAIL AT COLUMN
3/4"=1'-0"



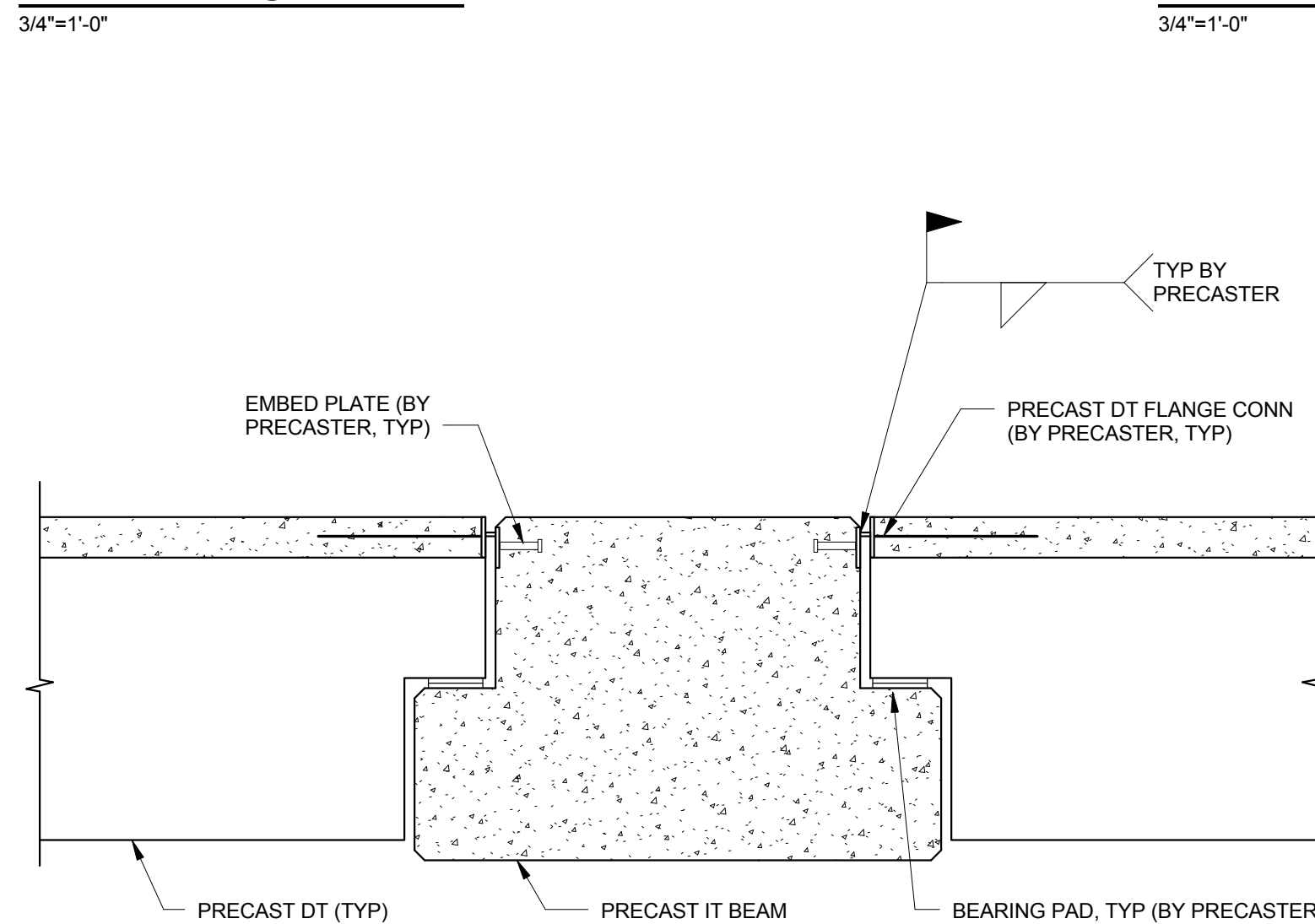
TYP DT/NLBS1 DETAIL
3/4"=1'-0"



TYP IT BEAM DETAIL AT SHEARWALL
3/4"=1'-0"



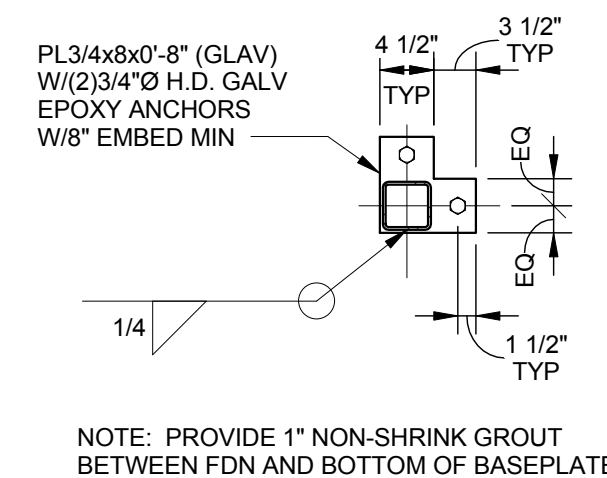
TYP DT/SHEARWALL DETAIL
3/4"=1'-0"



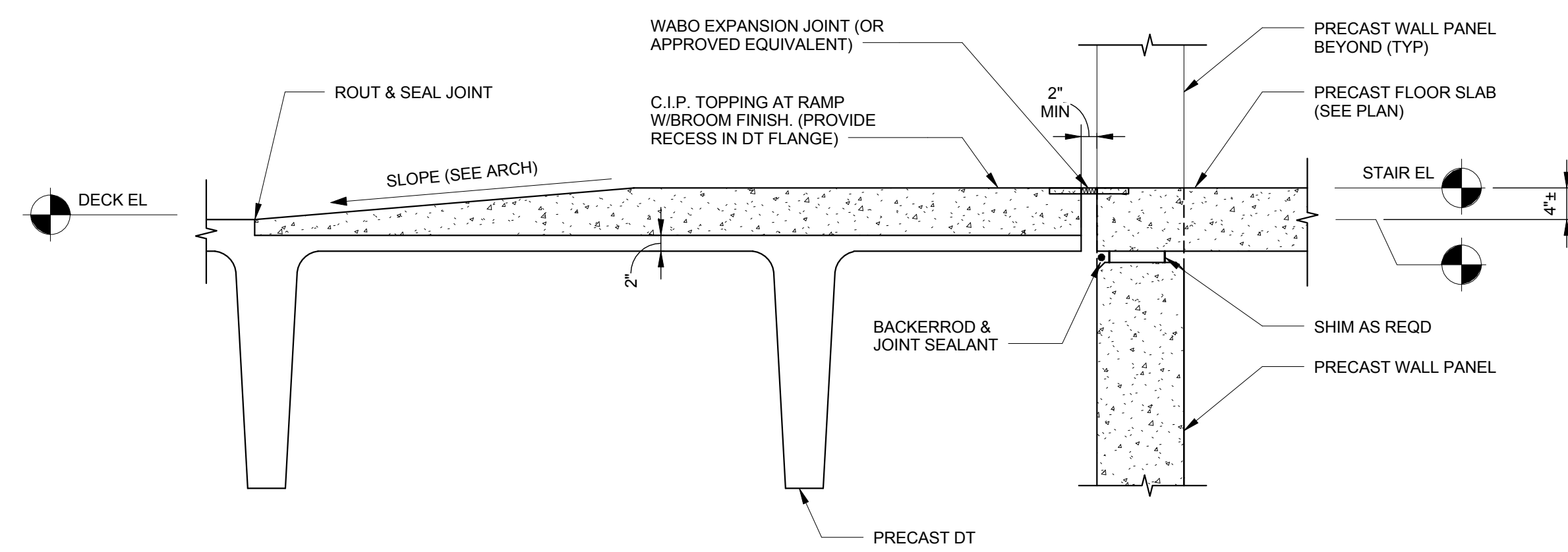

TYP DT/IT BEAM DETAIL
3/4"=1'-0"

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<p>Revisions:</p>		<p>CONSULTANTS:</p>		<p>ARCHITECT/ENGINEERS:</p>		<p>Drawing Title STRUCTURAL-TYPICAL PRECAST SECTIONS AND DETAILS</p>		<p>Project Title WEST ROXBURY GARAGE</p>		<p>Project Number 523-400</p>		<p>Office of Facilities Management</p>	
<p>Date</p>		<p>Lowell Specifications 34 Marc Avenue Topsham, ME 04802 Tel: (207) 406-4001 Email: keith@lowellspecs.com</p>		<p>ARCHITECTURE INTERIOR DESIGN PLANNING</p>		<p>Approved: Project Director</p>		<p>Location VAMC - West Roxbury, MA 02132</p>		<p>Building Number ?</p>			
<p>Date</p>				<p>49 DARTMOUTH STREET PORTLAND, ME 04101 207-775-1059 www.pdtrchs.com</p>				<p>Date 03/31/2016</p>		<p>Checked CGW</p>			<p>Drawing Number SS501</p>
<p>Date</p>				<p>482 Payne Road Scarborough, ME 04074 Tel: (207) 883-3355 Fax: (207) 883-3376</p>		<p>75 York Street, Portland, Maine 04101 207.879.1838 ■ beckerstructural.com</p>		<p>Drawn MSK</p>		<p>Dwg: 47</p>			



DETAIL
3/4" = 1'-0"



CONT EMBED PLATE FOR ROOF DECK ATTACHMENT (BY PRECASTER)
 ROOF DECK (SEE PLAN)
 HOIST BEAM (SEE PLAN)
 1/4" STIFF PL EA SIDE
 1/4" 1/4"
 PRECAST WALL PANEL (SEE PLAN)
 3/16" 3/16" TYP
 BRG PL (BY PRECASTER) VERIFY LOADS W/IGC AND PURCHASED ELEVATOR.

1/4" RAD (TYP)

HEAVY BLAST FINISH

PRECAST STAIR RISER

END OF C.I.P. CONC KNEE WALL (SEE PLAN)

INSERT (BY PRECASTER)

C.I.P. TOPPING (SEE PLAN)

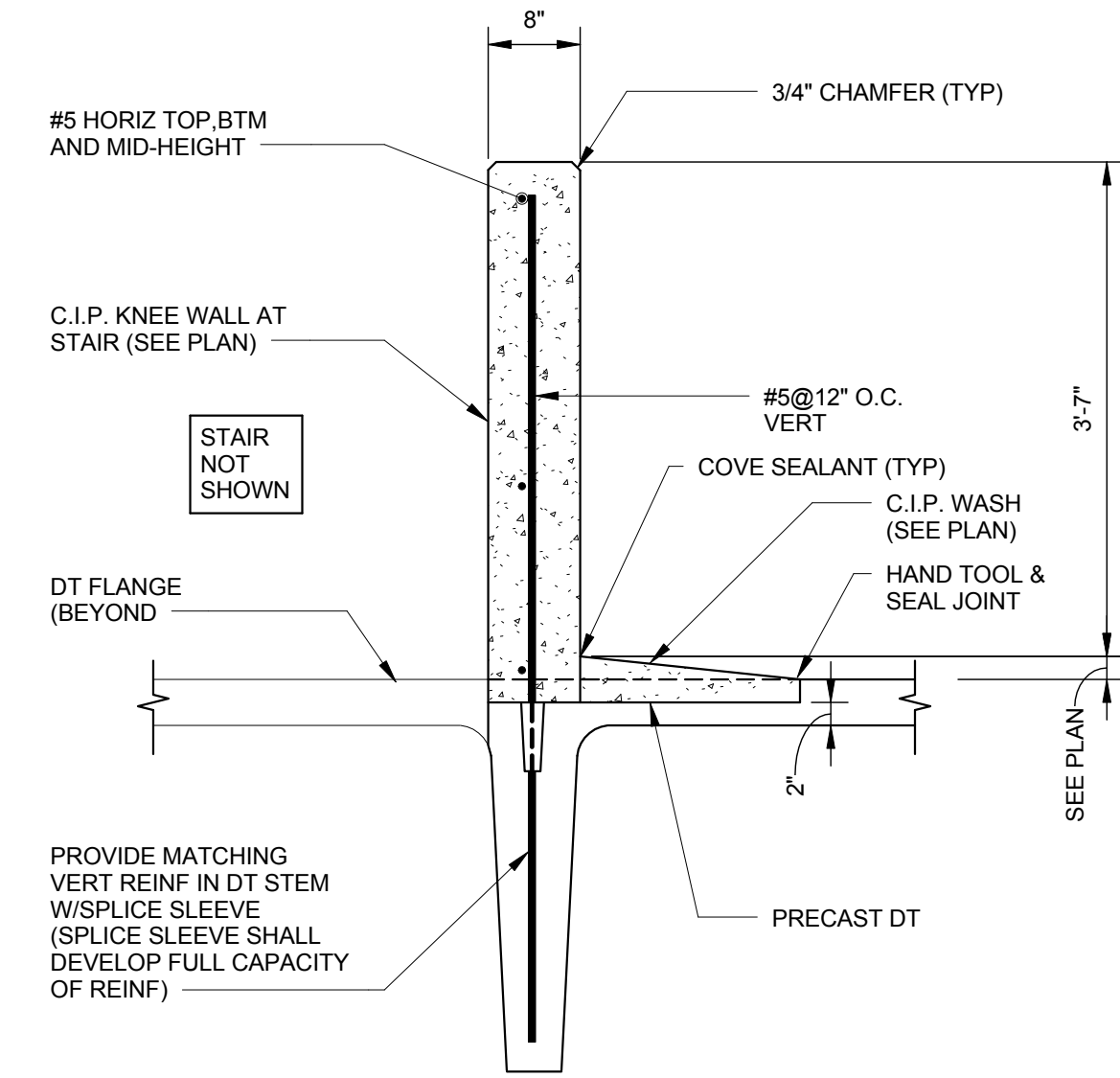
PLASTIC SHIMS AS REQUIRED

DT FLANGE

PIN CONN TO DT FLANGE (BY PRECASTER)

2#4 CONT AROUND PERIMETER OF OPRG

SECTION 9
3/4" = 1'-0" SS503



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Office of
Facilities
Management

 Department of
Veterans Affairs