



Schematic Design Manufacturing Buildings

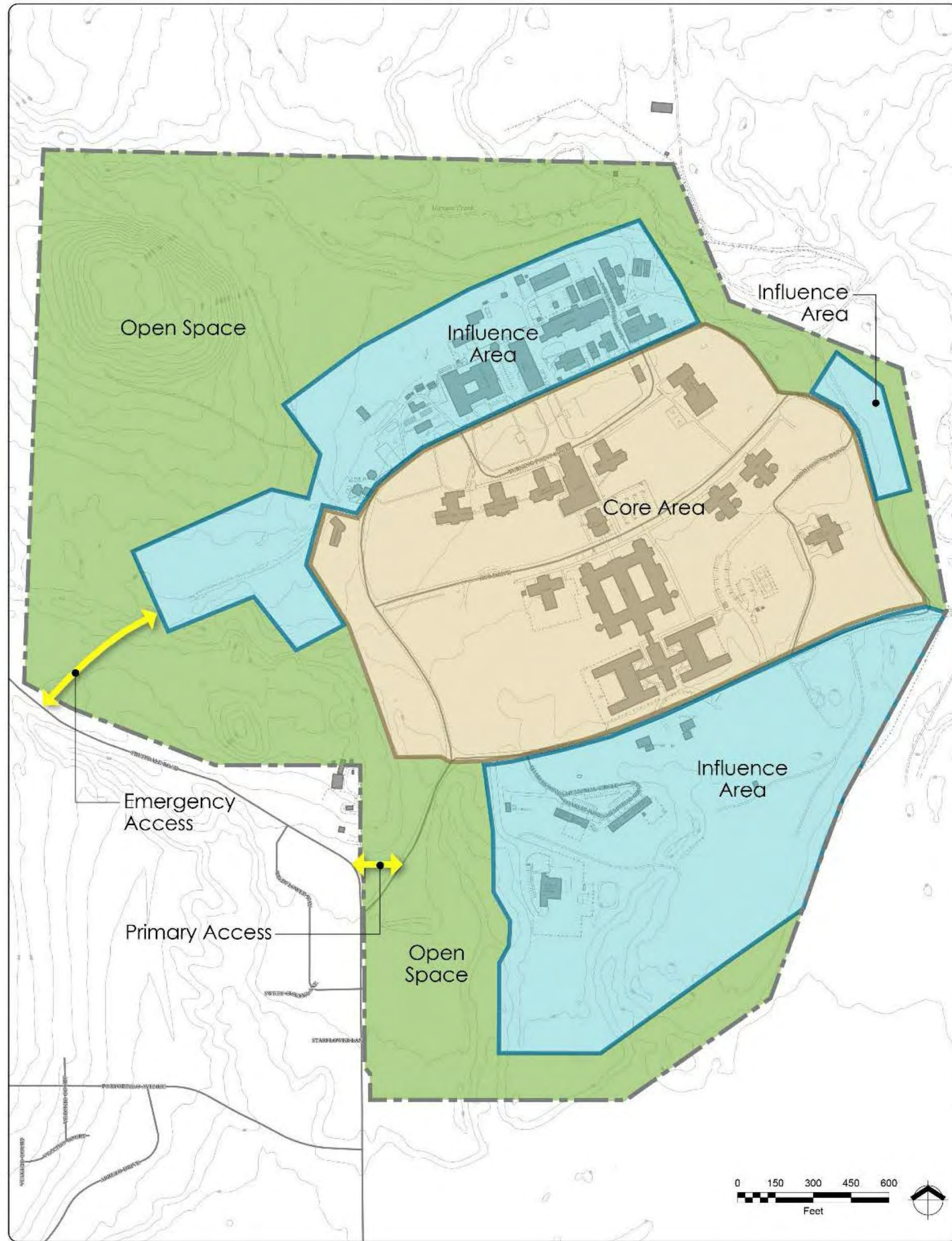
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Sedro-Woolley Innovation For Tomorrow

SWIFT CENTER



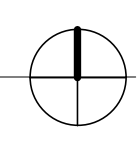
Port of Skagit



2 Existing Campus Plan



1 Proposed Campus Plan



Job No.: 1624 Date: 17 OCT 2016
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Drawn By: WALKER & ASSOCIATES
Checked By:
Issued for: REVIEW

SURVEY

G002

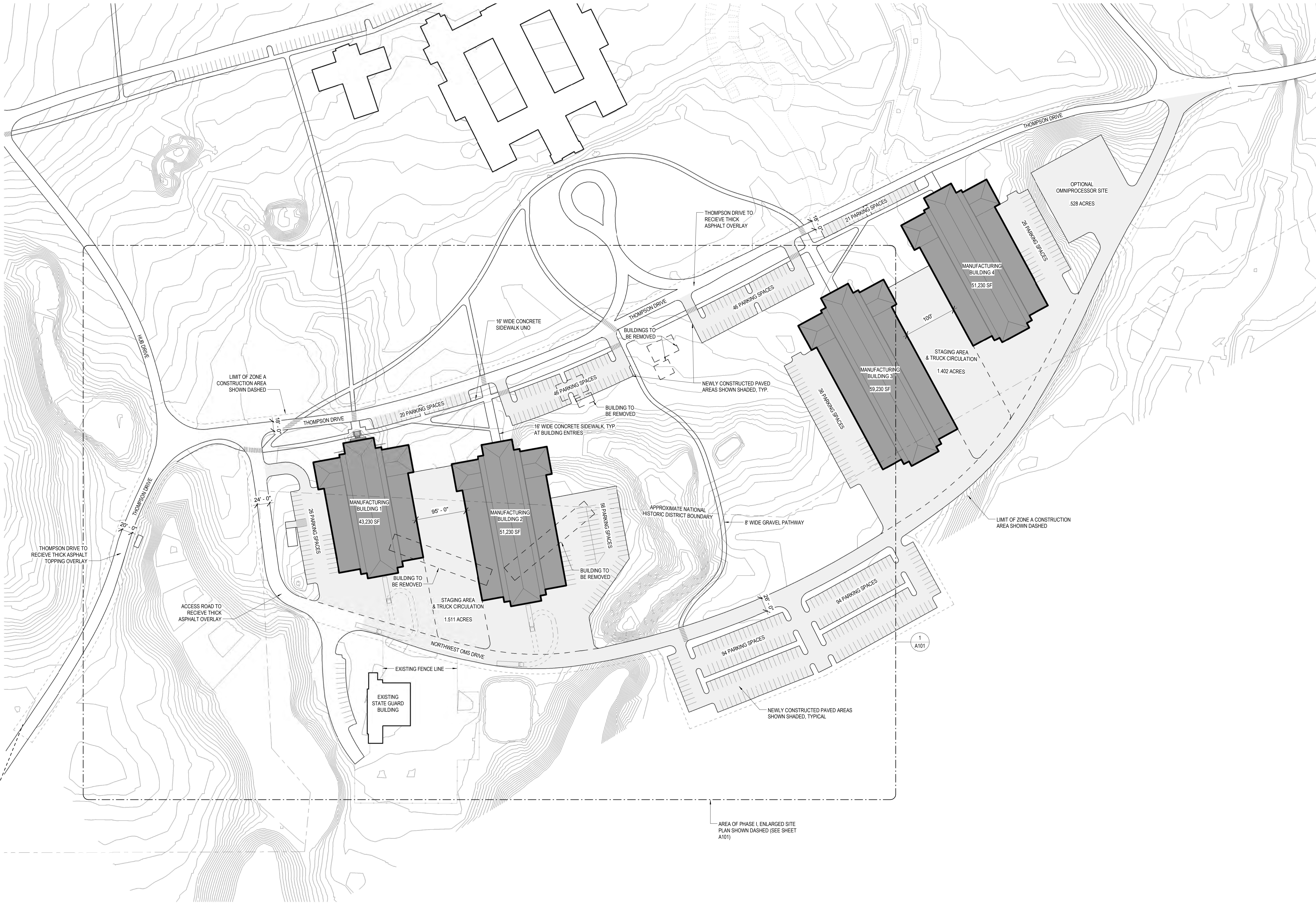
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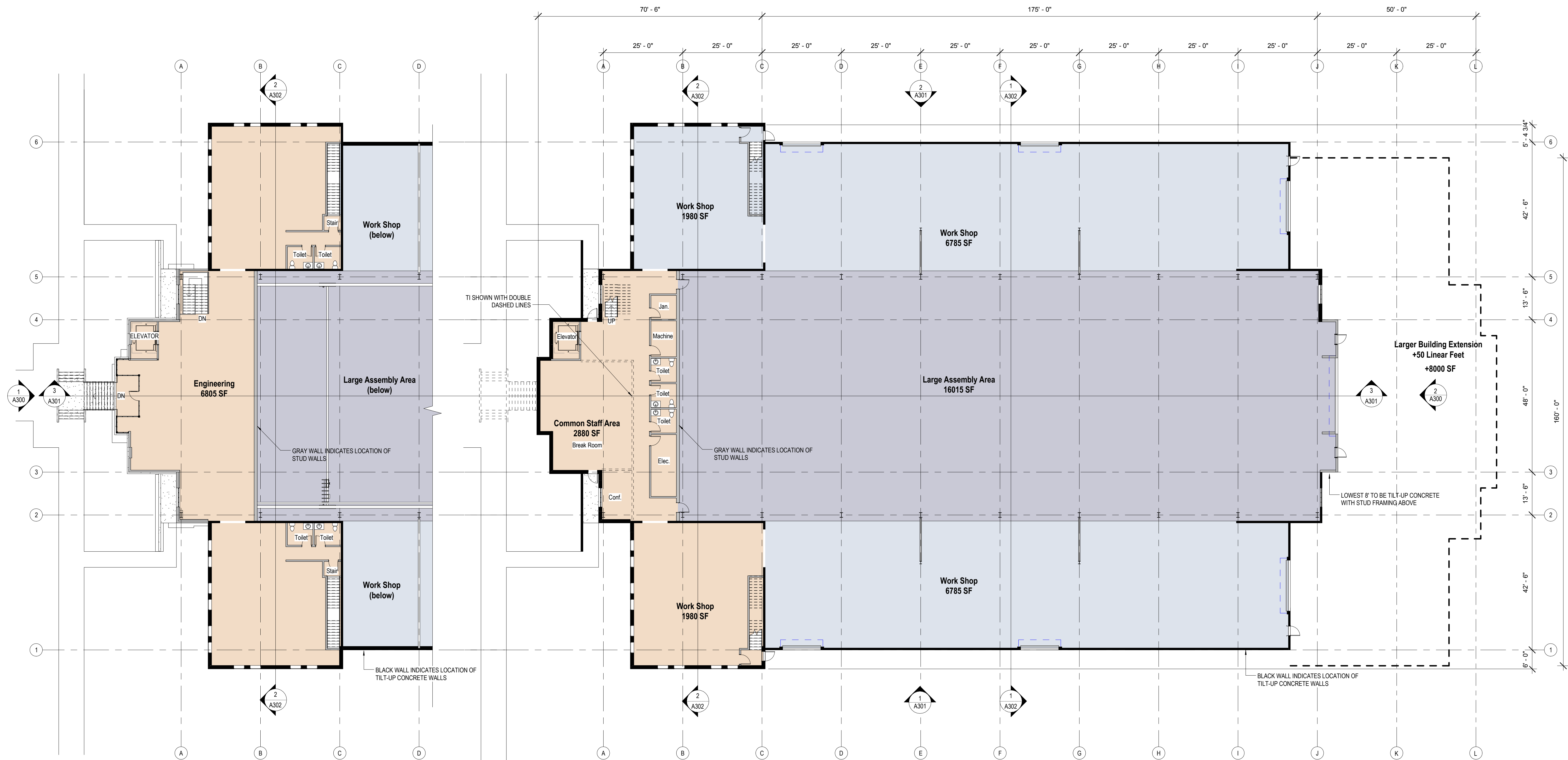
Port of Skagit

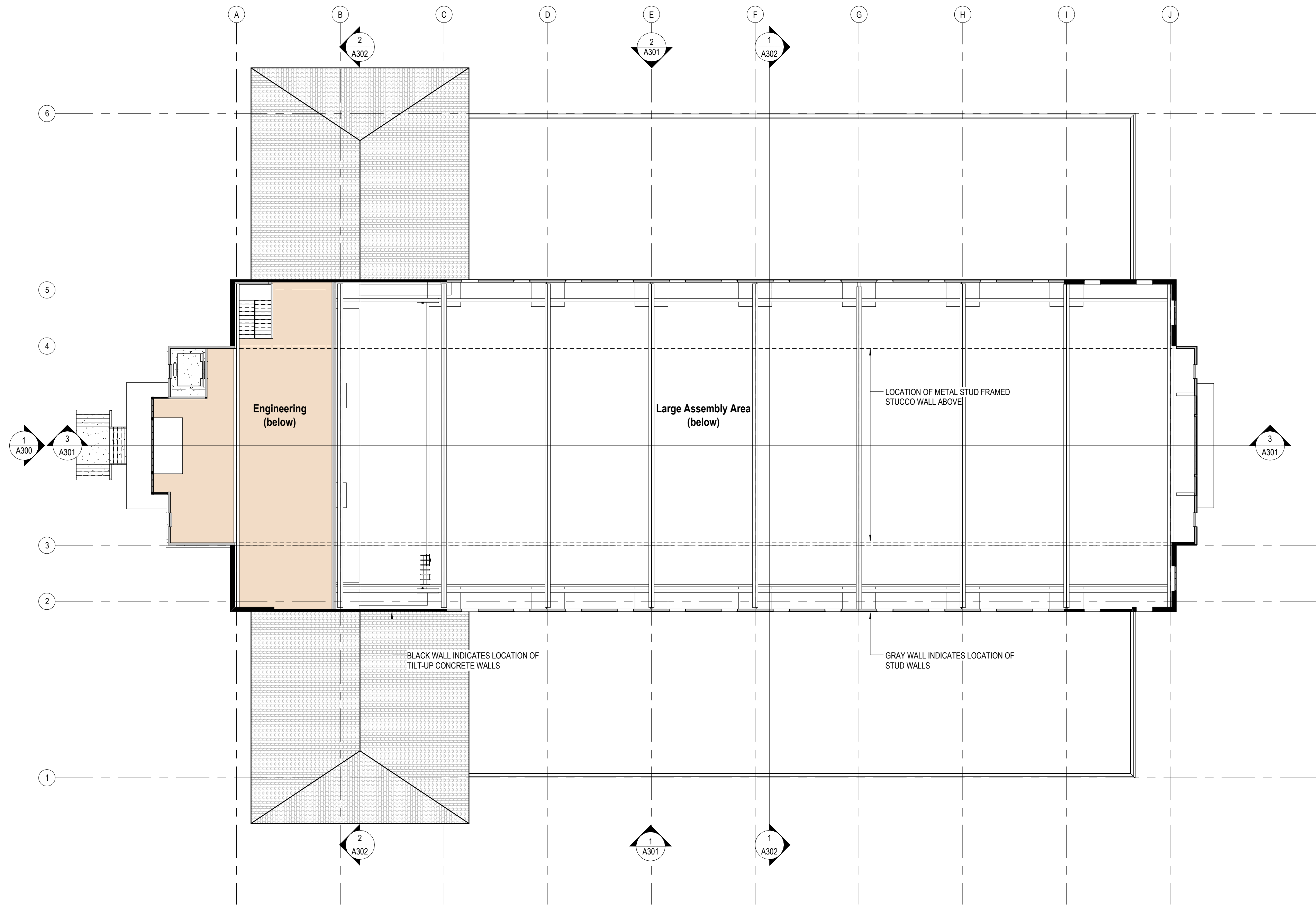
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1 Zone A - Southern Influence Area
1" = 80'-0"



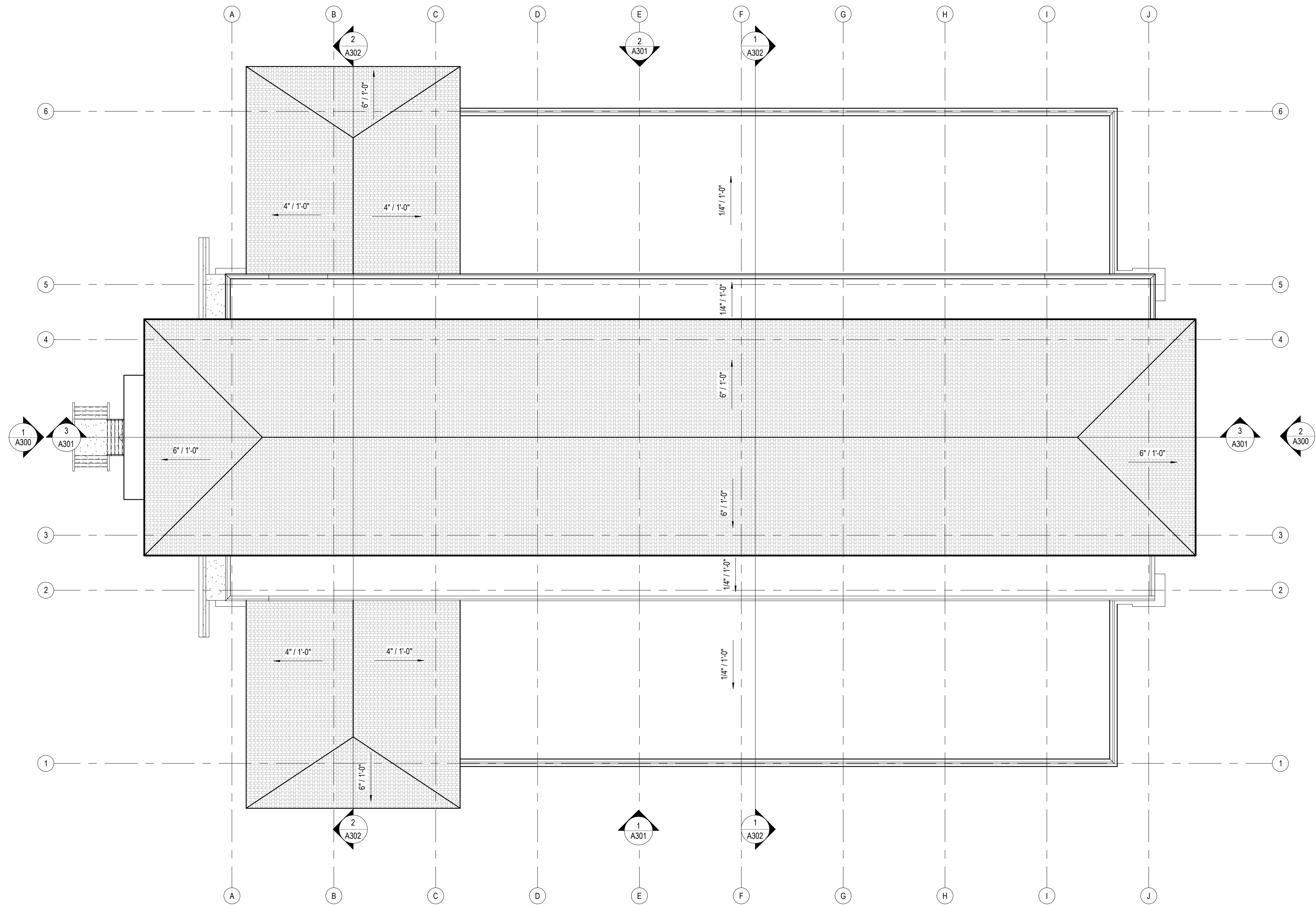


1

Clerestory Plan

1/16" = 1'-0" 0' 5' 10' 32'





1

Roof Plan

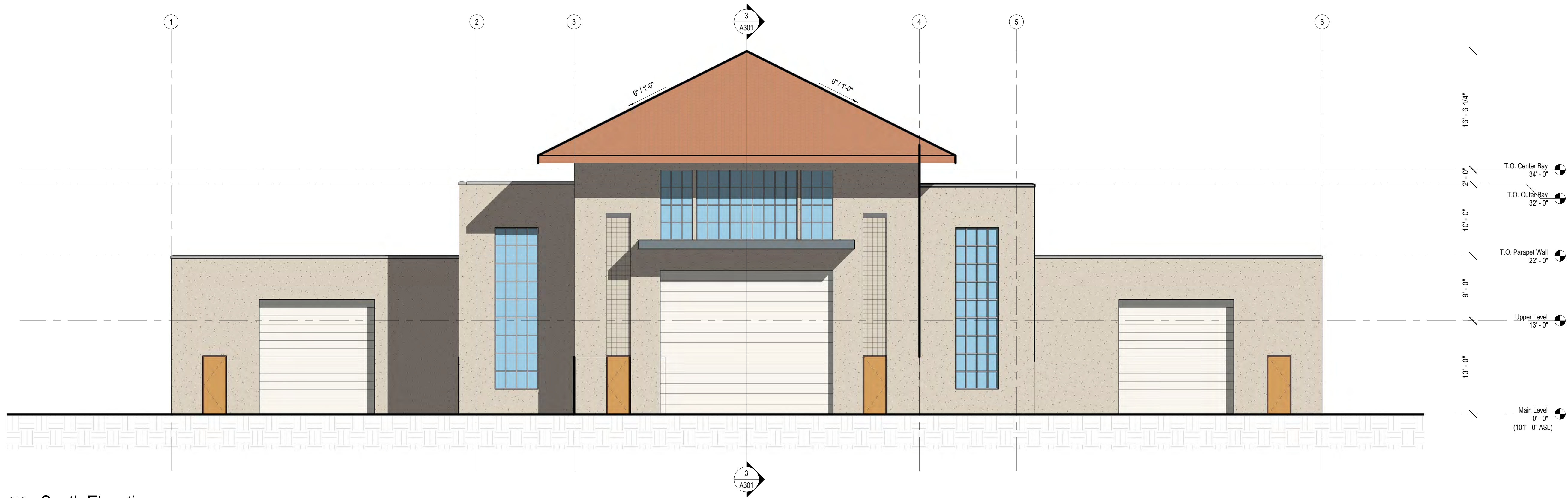
1/16" = 1'-0"



Job No.: 1624 Date: 17 OCT 2016
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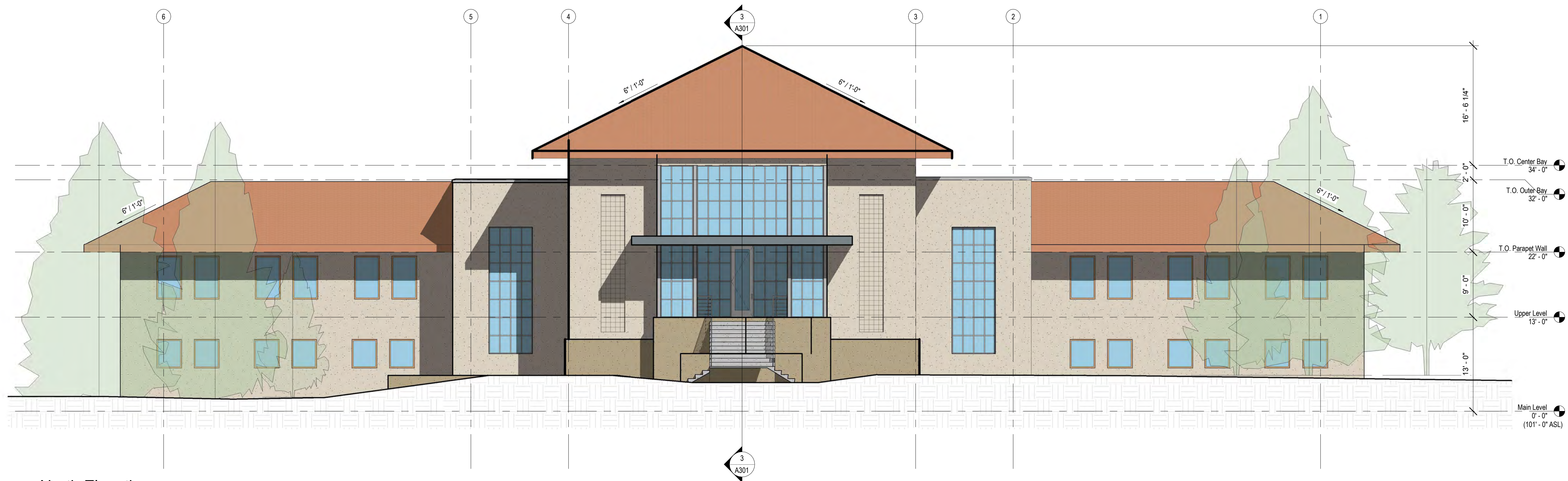
ROOF PLAN

A202



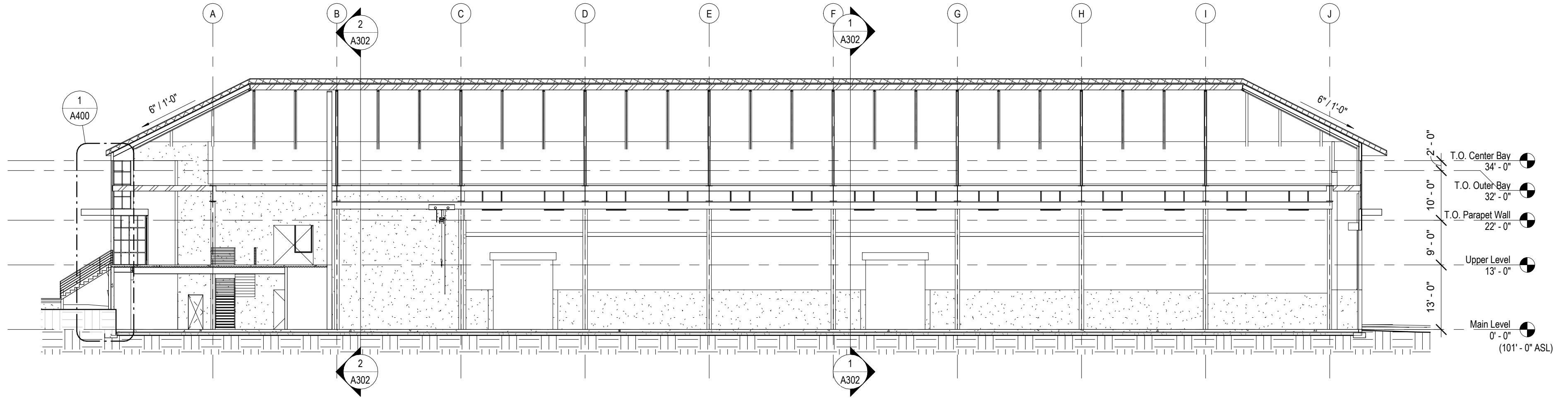
2 South Elevation

1/8" = 1'-0" 0' 5' 10'

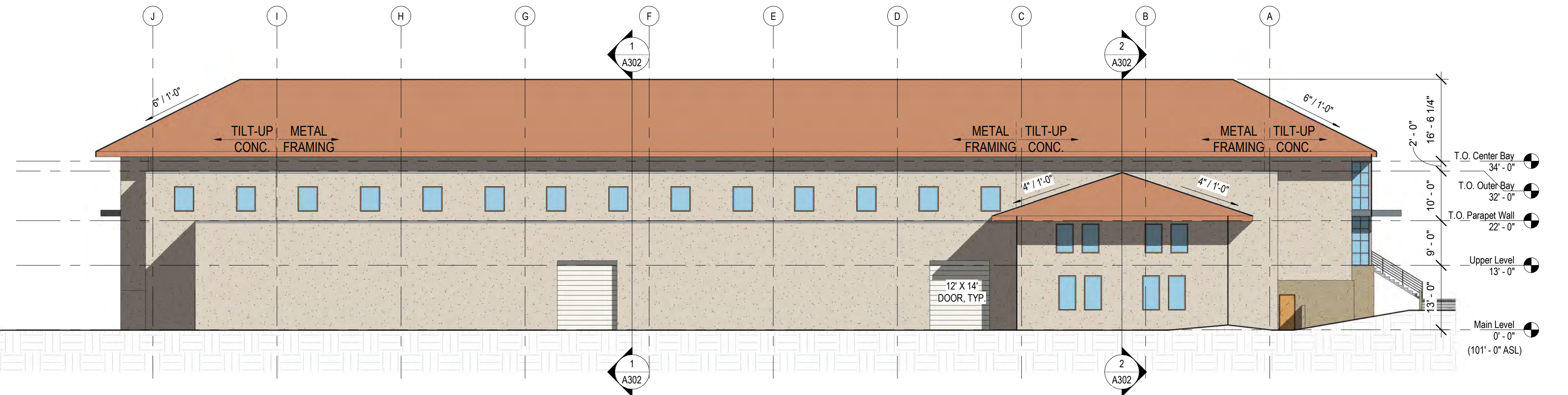


1 North Elevation

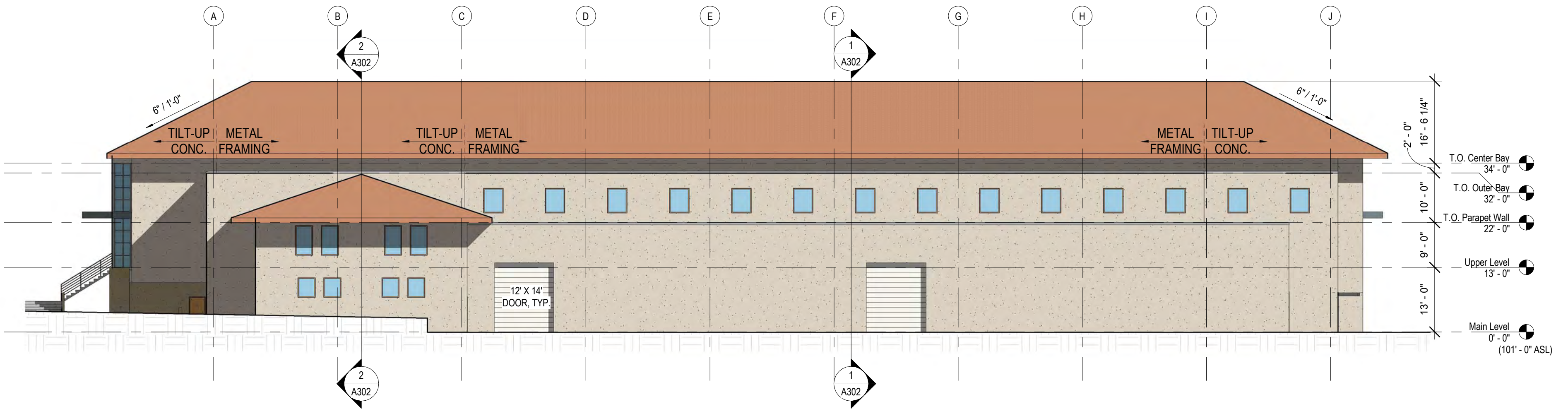
1/8" = 1'-0" 0' 5' 10'



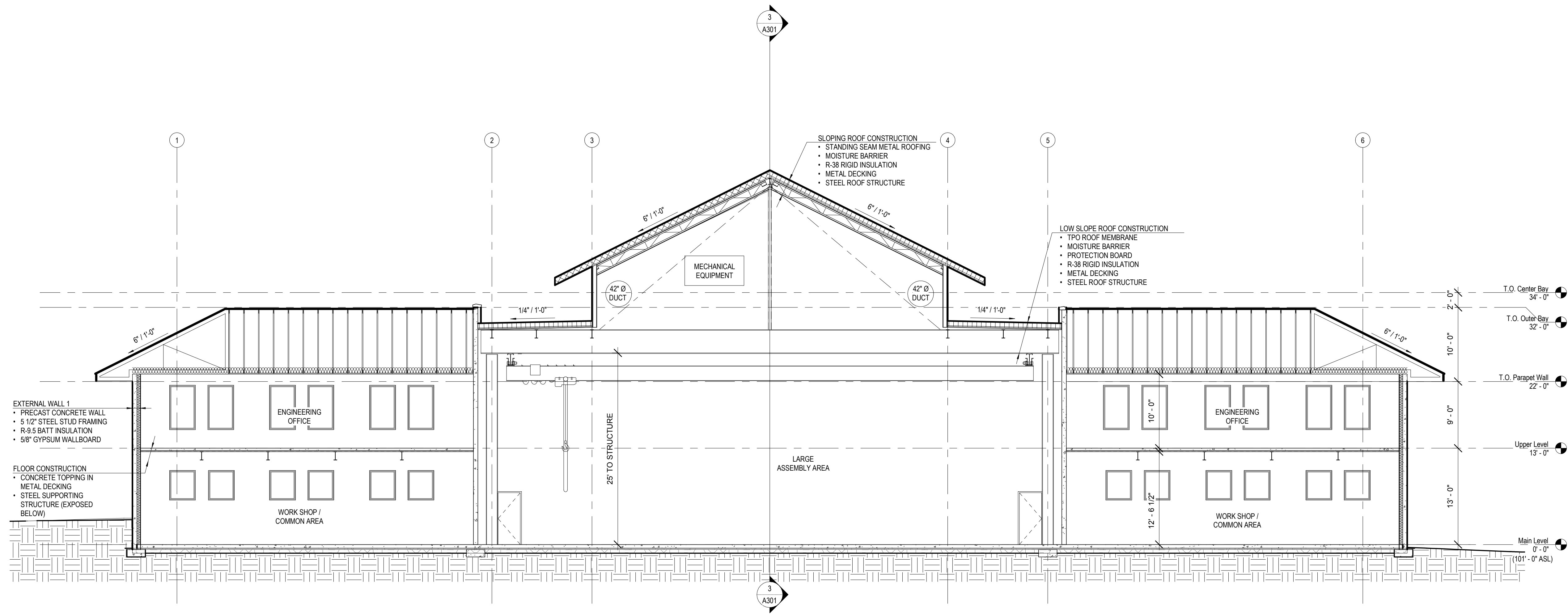
3 Longitudinal Section



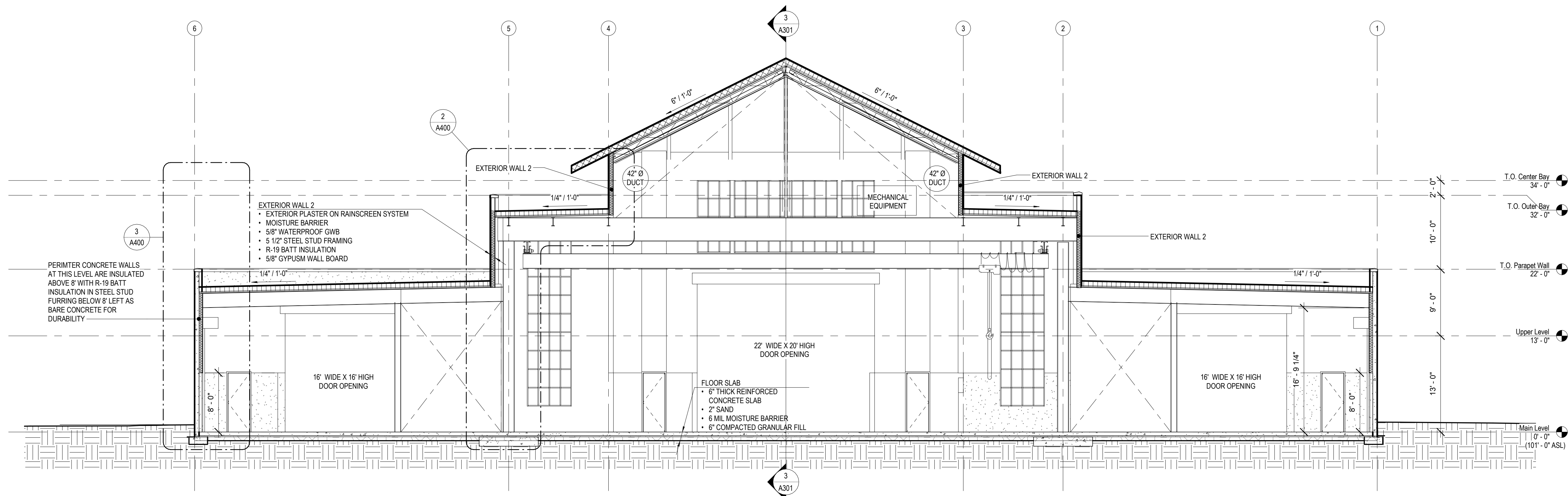
2 East Elevation



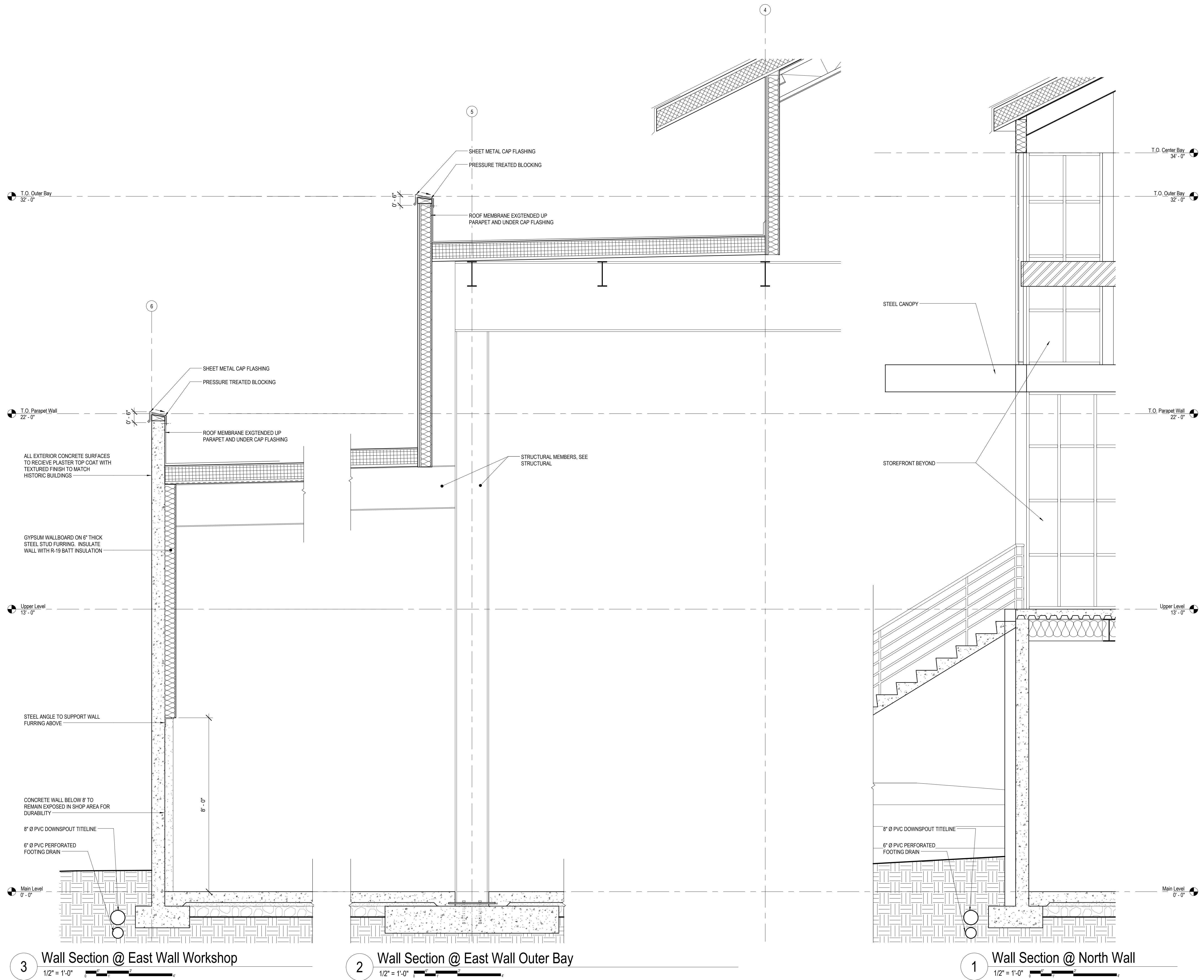
1 West Elevation

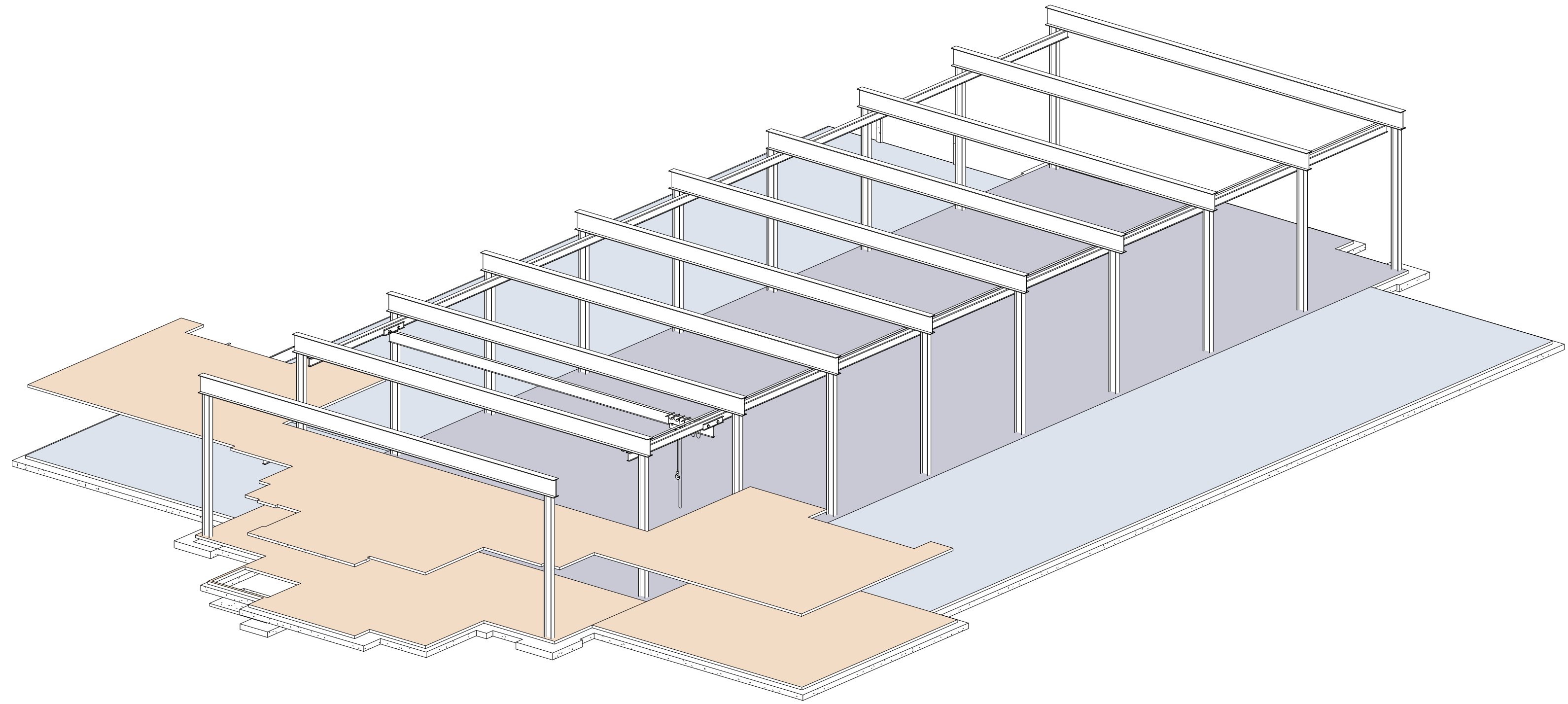


2 Cross Section @ Offices
1/8" = 1'-0"

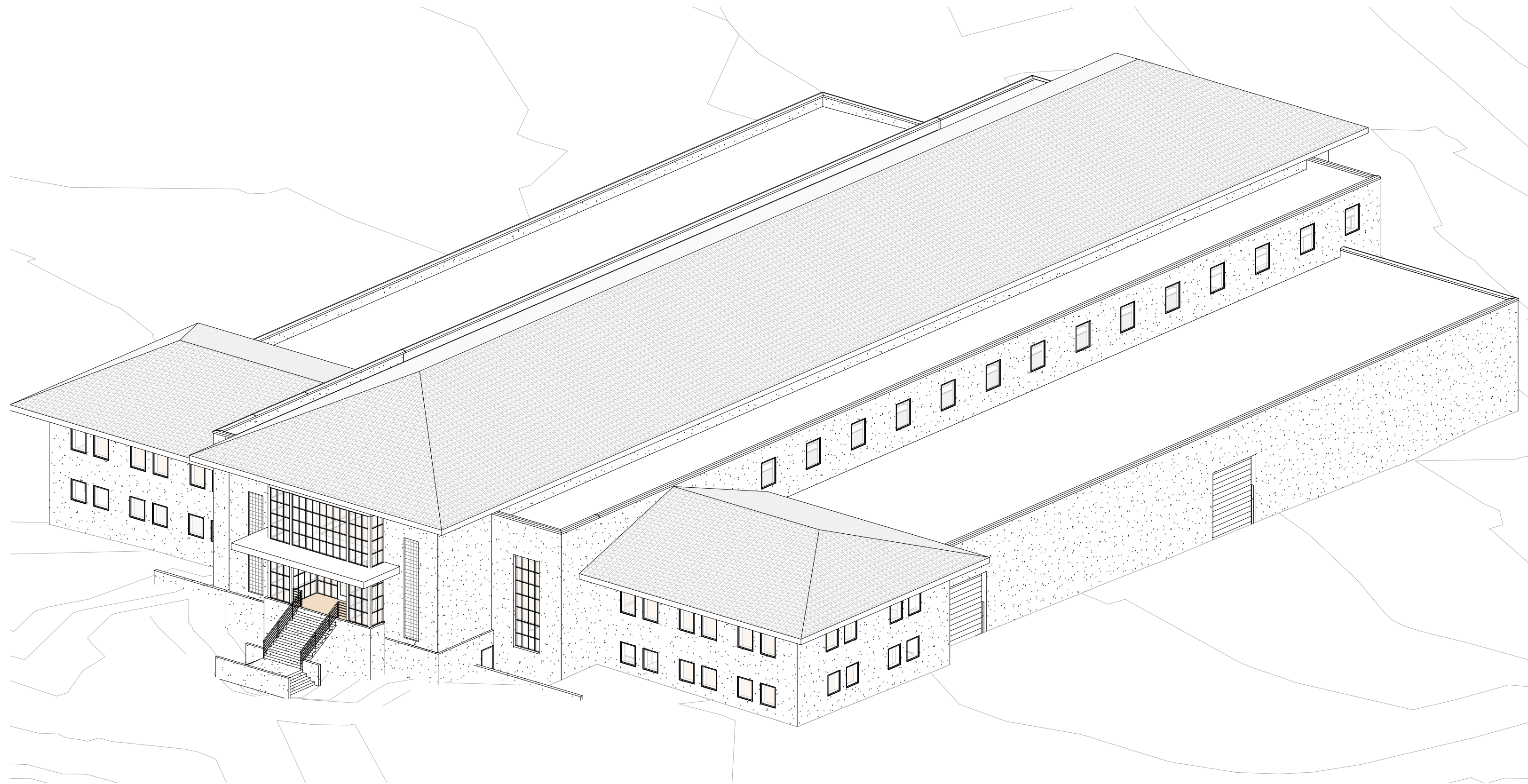


1 Cross Section @ Manufacturing Bay
1/8" = 1'-0"





4 Steel Frame Perspective



1 Perspective Image

General Structural Notes Continued

THE FOLLOWING APPLY UNLESS SHOWN OTHERWISE ON THE DRAWINGS

ANCHORAGE

21. A CONCRETE PERFORMANCE MIX SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER AND THE BUILDING DEPARTMENT FOR APPROVAL TWO WEEKS PRIOR TO PLACING ANY CONCRETE. THE PERFORMANCE MIX SHALL INCLUDE THE AMOUNTS OF CEMENT, FINE AND COARSE AGGREGATE, WATER AND ADMIXTURES AS WELL AS THE WATER CEMENT RATIO, SLUMP, CONCRETE YIELD AND SUBSTANTIATING STRENGTH DATA IN ACCORDANCE WITH ACI 318, SECTION 5.3. THE USE OF A PERFORMANCE MIX REQUIRES BATCH PLANT INSPECTION, THE COST OF WHICH SHALL BE PAID BY THE GENERAL CONTRACTOR. REVIEW OF MIX SUBMITTALS BY THE ENGINEER OF RECORD INDICATES ONLY THAT INFORMATION PRESENTED CONFORMS GENERALLY WITH CONTRACT DOCUMENTS. CONTRACTOR OR SUPPLIER MAINTAINS FULL RESPONSIBILITY FOR SPECIFIED PERFORMANCE.

22. ALL CONCRETE WITH SURFACES EXPOSED TO WEATHER OR STANDING WATER SHALL BE AIR-ENTRAINED WITH AN AIR-ENTRAINING AGENT CONFORMING TO ASTM C260, C494, AND C618. TOTAL AIR CONTENT FOR FROST-RESISTANT CONCRETE SHALL BE IN ACCORDANCE WITH ACI 318, TABLE 19.3.2.1 MODERATE EXPOSURE, F1.

23. REINFORCING STEEL SHALL CONFORM TO ASTM A615 (INCLUDING SUPPLEMENT S1), GRADE 60, FY = 60,000 PSI. EXCEPTIONS: ANY BARS SPECIFICALLY SO NOTED ON THE DRAWINGS SHALL BE GRADE 40, FY = 40,000 PSI. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185. SPIRAL REINFORCEMENT SHALL BE DEFORMED WIRE CONFORMING TO ASTM A615, GRADE 60, FY = 60,000 PSI.

24. LONGITUDINAL REINFORCEMENT IN DUCTILE FRAME MEMBERS AND IN WALL BOUNDARY MEMBERS SHALL COMPLY WITH ASTM A706. ASTM A615 GRADES 40 AND 60 REINFORCEMENT ARE ALLOWED IN THESE MEMBERS IF (A) THE ACTUAL YIELD STRENGTH BASED ON MILL TESTS DOES NOT EXCEED THE SPECIFIED YIELD STRENGTH BY MORE THAN 18,000 PSI AND (B) THE RATIO OF THE ACTUAL ULTIMATE TENSILE STRESS TO THE ACTUAL TENSILE YIELD STRENGTH IS NOT LESS THAN 1.25.

25. WELDING OF GRADE 60 REINFORCING BARS INDICATED ON DRAWINGS SHALL CONFORM TO ASTM A706. REINFORCING COMPLYING WITH ASTM A615 (S1) MAY BE WELDED ONLY IF MATERIAL PROPERTY REPORTS INDICATING CONFORMANCE WITH WELDING PROCEDURES SPECIFIED IN AWS D1.4 ARE SUBMITTED. WELDING OF GRADE 60 REINFORCING BARS SHALL BE PERFORMED USING LOW HYDROGEN ELECTRODES. WELDING OF GRADE 40 REINFORCING BARS SHALL BE PERFORMED USING E70XX ELECTRODES. WELDING WITHIN 4" OF COLD BENDS IN REINFORCING STEEL IS NOT PERMITTED.

26. DETAILING OF REINFORCING STEEL (INCLUDING HOOKS AND BENDS) SHALL BE IN ACCORDANCE WITH ACI 315-99 AND 318-14. LAP ALL CONTINUOUS REINFORCEMENT #5 AND SMALLER 40 BAR DIAMETERS OR 2'-0" MINIMUM. PROVIDE CORNER BARS AT ALL WALL AND FOOTING INTERSECTIONS. LAP CORNER BARS #5 AND SMALLER 40 BAR DIAMETERS OR 2'-0" MINIMUM. LAPS OF LARGER BARS SHALL BE MADE IN ACCORDANCE WITH ACI 318-14, CLASS B. LAP ADJACENT MATS OF WELDED WIRE FABRIC A MINIMUM OF 8" AT SIDES AND ENDS.

NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BENT UNLESS SPECIFICALLY SO DETAILED OR APPROVED BY THE STRUCTURAL ENGINEER.

27. DETAILING OF REINFORCING STEEL (INCLUDING HOOKS AND BENDS) SHALL BE IN ACCORDANCE WITH ACI 315-99 AND 318-14. LAP ALL REINFORCEMENTS IN ACCORDANCE WITH "THE REINFORCING SPLICE AND DEVELOPMENT LENGTH SCHEDULE." PROVIDE CORNER BARS AT ALL WALL AND FOOTING INTERSECTIONS. LAP ADJACENT MATS OF WELDED WIRE FABRIC A MINIMUM OF 8" AT SIDES AND ENDS.

NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BENT UNLESS SPECIFICALLY SO DETAILED OR APPROVED BY THE STRUCTURAL ENGINEER.

28. CONCRETE PROTECTION (COVER) FOR REINFORCING STEEL SHALL BE AS FOLLOWS:

FOOTINGS AND OTHER UNFORMED SURFACES CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3" FORMED SURFACES EXPOSED TO EARTH OR WEATHER (#6 BARS OR LARGER) 2" FORMED SURFACES EXPOSED TO EARTH OR WEATHER (#5 BARS OR SMALLER). . . 1-1/2" COLUMN TIES OR SPIRALS AND BEAM STIRRUPS 1-1/2" SLABS AND WALLS (INT. FACE). . . . GREATER OF BAR DIAMETER PLUS 1/8" OR 3/4"

29. CONCRETE WALL REINFORCING--PROVIDE THE FOLLOWING UNLESS DETAILED OTHERWISE:

6" WALLS	#4 @ 16 HORIZ.	#4 @ 18 VERTICAL	1 CURTAIN
8" WALLS	#4 @ 12 HORIZ.	#4 @ 18 VERTICAL	1 CURTAIN
10" WALLS	#4 @ 18 HORIZ.	#4 @ 18 VERTICAL	2 CURTAINS
12" WALLS	#4 @ 16 HORIZ.	#4 @ 18 VERTICAL	2 CURTAINS

30. CAST-IN-PLACE AND TILT-UP CONCRETE: SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND DIMENSIONS OF DOOR AND WINDOW OPENINGS IN ALL CONCRETE WALLS. SEE MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF MISCELLANEOUS MECHANICAL OPENINGS THROUGH CONCRETE WALLS. SEE ARCHITECTURAL DRAWINGS FOR ALL GROOVES, NOTCHES, CHAMFERS, FEATURE STRIPS, COLOR, TEXTURE, AND OTHER FINISH DETAILS AT ALL EXPOSED CONCRETE SURFACES, BOTH CAST-IN-PLACE AND PRECAST.

31. NON-SHRINK GROUT SHALL BE FURNISHED BY AN APPROVED MANUFACTURER AND SHALL BE MIXED AND PLACED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED RECOMMENDATIONS. GROUT STRENGTH SHALL BE AT LEAST EQUAL TO THE MATERIAL ON WHICH IT IS PLACED (3000 PSI MINIMUM).

32. MECHANICAL SPLICING OF REINFORCING BARS, WHERE INDICATED ON THE DRAWINGS, SHALL BE BY AN ICC-ES APPROVED SYSTEM (SUCH AS LENTON, FOX-HOWLETT, ETC.) AND SHALL DEVELOP 125% OF THE SPECIFIED YIELD STRENGTH OF THE BARS. SPLICE LOCATIONS OF ALTERNATE BARS SHALL BE OFFSET BY A DISTANCE WHICH CONFORMS TO THE ICC-ES REPORT OF THE SPLICE USED. REFER TO THE STRUCTURAL PLANS FOR LIMITATIONS ON PLACEMENT OF MECHANICAL SPLICES.

33. EXPANSION BOLTS INTO CONCRETE AND CONCRETE MASONRY UNITS SHALL BE "KWIK BOLT 12" AS MANUFACTURED BY THE HILTI CORP., INSTALLED IN STRICT ACCORDANCE WITH ICC-ES REPORT NO. ESR-1917, INCLUDING MINIMUM EMBEDMENT REQUIREMENTS. BOLTS INTO CONCRETE MASONRY OR BRICK MASONRY UNITS SHALL BE INTO FULLY GROUTED CELLS. SUBSTITUTES PROPOSED BY CONTRACTOR SHALL BE SUBMITTED FOR REVIEW WITH ICC REPORTS INDICATING EQUIVALENT OR GREATER LOAD CAPACITIES. PERIODIC SPECIAL INSPECTION IS REQUIRED TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, ANCHOR LOCATION, TIGHTENING TORQUE, HOLE DIMENSIONS, ANCHOR EMBEDMENT, AND ADHERENCE TO THE INSTALLATION INSTRUCTIONS.

34. EPOXY-GROUTED ITEMS (THREADED RODS OR REINFORCING BAR) SPECIFIED ON THE DRAWINGS SHALL BE INSTALLED USING "HIT RE 500-SO V3" AS MANUFACTURED BY HILTI CORP. INSTALL IN STRICT ACCORDANCE WITH ICC-ES REPORT NO. ESR-3814. MINIMUM BASE MATERIAL TEMPERATURE IS 41 DEGREES, F. RODS SHALL BE ASTM A-36 UNLESS OTHERWISE NOTED. PERIODIC SPECIAL INSPECTION OF INSTALLATION IS REQUIRED TO VERIFY ANCHOR OR EMBEDD BAR TYPE AND DIMENSIONS, LOCATION, ADHESIVE IDENTIFICATION AND EXPIRATION, HOLE DIMENSIONS, HOLE CLEANING PROCEDURE, ANCHOR EMBEDMENT, AND ADHERENCE TO THE INSTALLATION INSTRUCTIONS. CONTINUOUS SPECIAL INSPECTION IS REQUIRED FOR HORIZONTAL AND OVERHEAD INSTALLATIONS.

35. CONCRETE SCREW ANCHORS INTO CONCRETE AND CONCRETE MASONRY UNITS SHALL BE "TITEN HD" HEAVY DUTY SCREW ANCHOR AS MANUFACTURED BY THE SIMPSON STRONG-TIE COMPANY, INSTALLED IN STRICT ACCORDANCE WITH ICC-ES REPORT NO. ESR-2713 (CONCRETE), NO. ESR-1056 (CMU), INCLUDING MINIMUM EMBEDMENT REQUIREMENTS. SCREW ANCHORS INTO CONCRETE MASONRY UNITS SHALL BE INTO FULLY GROUTED CELLS. SPECIAL INSPECTION IS REQUIRED.

36. DRIVE PINS AND OTHER POWDER-ACTUATED FASTENERS SHALL BE LOW VELOCITY TYPE (SERIES X-4, 0.157" DIAMETER (STEEL), UNLESS OTHERWISE NOTED) AS MANUFACTURED BY THE HILTI CORP. OR AN APPROVED EQUIVALENT IN STRENGTH AND EMBEDMENT. INSTALL IN STRICT ACCORDANCE WITH ICC-ES REPORT NO. ESR-1663. MINIMUM EMBEDMENT IN CONCRETE SHALL BE 1" UNLESS OTHERWISE NOTED. MAINTAIN AT LEAST 3" TO NEAREST CONCRETE EDGE.

STEEL

37. STRUCTURAL STEEL DESIGN, FABRICATION, AND ERECTION SHALL BE BASED ON:

- A. AISC 360 AND SECTION 2205.2 OF THE INTERNATIONAL BUILDING CODE.
- B. APRIL 14, 2010 AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES AMENDED AS FOLLOWS: AS NOTED IN THE CONTRACT DOCUMENTS, BY THE DELETION OF PARAGRAPH 4.4.1, AND REVISE REFERENCE FROM "STRUCTURAL DESIGN DRAWINGS" TO "CONTRACT DOCUMENTS" IN PARAGRAPH 3.1.
- C. SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS.

38. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

TYPE OF MEMBER	ASTM SPECIFICATION	FY
A. WIDE FLANGE SHAPES	A992	50 KSI
B. OTHER SHAPES, PLATES, AND RODS	A36	36 KSI
C. OTHER SHAPES AND PLATES (NOTED GRADE 50 ON PLANS)	A572 (GRADE 50)	50 KSI
D. PIPE COLUMNS	A53 (E OR S, GR.B)	35 KSI
E. STRUCTURAL TUBING -SQUARE OR RECTANGULAR -ROUND	A500 (GR.B) OR ASTM A1085	46 KSI 42 KSI
F. CONNECTION BOLTS (3/4" ROUND, UNLESS SHOWN OTHERWISE)	A325-N	

39. ARCHITECTURALLY EXPOSED STRUCTURAL STEEL SHALL CONFORM TO SECTION 10 OF THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.

40. ALL STEEL EXPOSED TO THE WEATHER OR IN CONTACT WITH GROUND SHALL BE CORROSION PROTECTED BY GALVANIZATION OR PROVIDED WITH EXTERIOR PAINT SYSTEM, UNLESS OTHERWISE NOTED.

41. SHOP PRIME ALL STEEL EXCEPT:

- A. STEEL ENCASED IN CONCRETE.
- B. SURFACES TO BE WELDED.
- C. CONTACT SURFACES AT HIGH-STRENGTH BOLTS.
- D. MEMBERS TO BE GALVANIZED.
- E. MEMBERS WHICH WILL BE CONCEALED BY INTERIOR FINISHES.
- F. SURFACES TO RECEIVE SPRAYED FIREPROOFING.
- G. SURFACES TO RECEIVE OTHER SPECIAL SHOP PRIMERS.

42. ALL A-325N CONNECTION BOLTS NEED ONLY BE TIGHTENED TO A SNUG TIGHT CONDITION, DEFINED AS THE TIGHTNESS THAT EXISTS WHEN ALL PLIES IN A JOINT ARE IN FIRM CONTACT. THIS MAY BE ATTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF AN IRONWORKER USING AN ORDINARY SPUD WRENCH.

43. ALL ANCHORS EMBEDDED IN MASONRY OR CONCRETE SHALL BE A307 HEADED BOLTS OR A36 THREADED ROD WITH AN ASTM 563 HEAVY HEX NUT TACK WELDED ON THE EMBEDDED END.

44. OPEN WEB STEEL JOISTS (INCLUDING BRIDGING) SHALL CONFORM TO SECTION 2207 OF THE INTERNATIONAL BUILDING CODE AND THE SPECIFICATIONS OF THE STEEL JOIST INSTITUTE, LATEST EDITION, FOR THE JOIST SERIES DESIGNATED ON THE PLANS. ENDS OF BRIDGING ROWS SHALL BE FIELD WELDED TO STRUCTURAL STEEL MEMBERS OR TO PLATES EMBEDDED IN CONCRETE OR MASONRY UNLESS DETAILED OTHERWISE. JOIST MANUFACTURER SHALL CHECK ROOF JOIST AND PROVIDE UPLIFT BRIDGING AS REQUIRED TO ADEQUATELY BRACE THE BOTTOM CHORD AGAINST LATERAL MOVEMENT UNDER WIND UPLIFT PRESSURES (SEE DESIGN CRITERIA NOTE FOR WIND CRITERIA). AT COMPLETION OF MANUFACTURE OF JOISTS, THE MANUFACTURER SHALL SUBMIT A CERTIFICATE OF COMPLIANCE IN ACCORDANCE WITH IBC SECTION 2207.5.

45. ALL WELDING SHALL BE IN CONFORMANCE WITH AISC AND AWS STANDARDS AND SHALL BE PERFORMED BY WABO CERTIFIED WELDERS USING E70XX ELECTRODES. ONLY PREQUALIFIED WELDS (AS DEFINED BY AWS) SHALL BE USED. ALL COMPLETE JOINT PENETRATION GROOVE WELDS SHALL BE MADE WITH A FILLER MATERIAL THAT HAS A MINIMUM CVN TOUGHNESS OF 20 FT-LBS AT -20 DEGREES F AND 40 FT - LBS AT 70 DEGREES F, AS DETERMINED BY AWS CLASSIFICATION OR MANUFACTURER CERTIFICATION.

46. METAL FLOOR AND ROOF DECKING SHALL BE IN ACCORDANCE TO THE FOLLOWING: PROVIDE SIZE, TYPE, GAUGE, AND ATTACHMENT TO THE SUPPORTING STRUCTURE AS SHOWN ON THE PLANS. ARC SEAM AND SPOT (PUDDLE) WELDS FOR FIELD ASSEMBLY OF METAL DECK SHALL BE MADE WITH MINIMUM E60XX ELECTRODES. DECK ALTERNATES MUST BE CONNECTED ACCORDING TO PUBLISHED ICC-ES CRITERIA FOR DIAPHRAGM SHEARS SHOWN. PROVIDE TEMPORARY SHORING WHERE REQUIRED PER MANUFACTURER'S PUBLISHED CRITERIA.

- A. NONCOMPOSITE STEEL FLOOR DECKS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH ANSI/SDI-NC1.0.
- B. STEEL ROOF DECK SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH ANSI/SDI-RD1.0.
- C. COMPOSITE SLABS ON STEEL DECKS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE TWITH SDI-C.

47. COLD-FORMED STEEL FRAMING NOTES--THE FOLLOWING APPLY UNLESS OTHERWISE SHOWN ON THE PLANS:

A. COLD FORMED STEEL DESIGN, FABRICATION, AND ERECTION SHALL BE BASED ON AISI S100-12, "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS," AND ON THE 2012 NORTH AMERICAN STANDARDS FOR COLD FORMED STEEL FRAMING, INCLUSIVE.

B. THE CONTRACTOR SHALL PROVIDE A QUALITY CONTROL PROGRAM OVER ALL FABRICATION AND ERECTION ACTIVITY THROUGH THE USE OF AN INDEPENDENT TESTING AGENCY AND/OR A QUALIFIED REPRESENTATIVE OF THE STEEL MANUFACTURER. THE CONTRACTOR SHALL OBTAIN WILL CERTIFICATION FROM THE GAUGE STEEL MANUFACTURER OR SHALL SUBMIT TENSILE TESTS AND GALVANIZATION TESTS TO THE ENGINEER OF RECORD TO VERIFY THE ADEQUACY OF THE GAUGE MATERIALS.

C. COLD-FORMED STEEL FRAMING MEMBERS INDICATED ON PLAN SHALL BE IN ACCORDANCE WITH THE "2015 IBC-SSMA PRODUCT TECHNICAL GUIDE" PUBLISHED BY THE STEEL STUD MANUFACTURERS ASSOCIATION, AND SHALL COMPLY WITH ICC-ES REPORT ESR-3064P.

DESIGNATION:	600 DEPTH	S MEMBER STYLE	200 FLANGE WIDTH	- 54 MATERIAL THICKNESS(WILS)
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D. MATERIAL:

METAL FRAMING SHALL BE GALVANIZED UNLESS OTHERWISE NOTED, CONFORMING AS FOLLOWS:

ASTM A653, GRADE 50	FY = 50 KSI	12, 14, AND 16 GAUGE
ASTM A653, GRADE 33	FY = 33 KSI	18 AND 20 GAUGE

WHERE NOTED, PAINTED STUDS SHALL CONFORM TO: ASTM A570, GRADE E, FY=KSI. ALL 8 AND 10 GAGE MATERIAL SHALL CONFORM TO: ASTM A36, FY=36 KSI

E. THE DESIGN OF INTERIOR COLD FORMED STEEL NON-BEARING WALLS, SOFFITS, CEILINGS AND OTHER MISCELLANEOUS FRAMING AND CONNECTIONS TO STRUCTURE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM TO THE REQUIREMENTS OF THE ARCHITECTURAL DRAWINGS. DESIGN AND DETAILING SHALL BE UNDER THE DIRECTION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF WASHINGTON AND STAMPED DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD PRIOR TO CONSTRUCTION.

F. ACCESSORIES SHALL BE OF THE TYPE, SIZE, AND SPACING SHOWN ON THE DRAWINGS OF A MINIMUM 16 GAUGE MATERIAL UNLESS OTHERWISE SPECIFIED. FASTENING OF COMPONENTS SHALL BE BY WELDING OR SCREWING OR BY OTHER MEANS OF FASTENING AS INDICATED ON THE DRAWINGS. PROVIDE MISCELLANEOUS CLIP ANGLES, LEDGERS, AND ACCESSORIES OF A MINIMUM 16 GAUGE OR THE THICKNESS OF THE MATERIAL BEING FASTENED, WHICHEVER IS GREATER, FOR CONNECTIONS AND BEARING CONDITIONS NOT OTHERWISE NOTED IN THE DRAWINGS. WELDS SHALL BE OF SUFFICIENT SIZE TO INSURE THE STRENGTH OF THE CONNECTION: WIRE TYING OF COMPONENTS SHALL NOT BE PERMITTED. ALL WELDS SHALL BE TOUCHED UP WITH A ZINC-RICH PAINT.

G. SCREWS: ALL SCREWS (REFERRED TO AS TEK) SHALL BE SELF-TAPPING SELF-DRILLING FASTENERS THAT ARE ZINC COATED AS MANUFACTURED BY HILTI KWIK-FLEX (ICC-ES ESR-2196), OR APPROVED EQUAL. THE MINIMUM SCREW SIZE/TYPE/POINT SHALL BE #8-18 (#2 POINT) OR #10-16 (#2 POINT) FOR USE IN 20 GAUGE THROUGH 16 GAUGE, AND #10-16 (#3 POINT) OR #12-14 (#2 OR #3 POINT) FOR HEAVIER THAN 16 GAUGE UNLESS NOTED OTHERWISE. SCREWS FOR SHEATHING CONNECTIONS SHALL BE OF THE PROPER SIZE AND TYPE FOR A POSITIVE SHEATHING-TO-METAL CONNECTION. ALL SCREW CONNECTIONS SHALL BE MADE FROM THE LIGHTER MATERIAL INTO THE HEAVIER MATERIAL UNLESS NOTED OTHERWISE. SCREWS SHALL HAVE A MINIMUM PROJECTION OF 3 THREADS THROUGH THE LAST MATERIAL JOINED AND SHALL HAVE MINIMUM EDGE DISTANCES AND CENTER-TO-CENTER SPACING OF 1-1/2 AND 3 SCREW DIAMETERS, RESPECTIVELY. ALL SCREWS SHALL CONFORM TO SAE J78 AND SHALL BE COATED WITH A CORROSIVE-RESISTANT COATING. THE SCREW MANUFACTURER SHALL PROVIDE VERIFICATION OF THE FASTENERS RESISTANCE TO HYDROGEN EMBRITTLEMENT, UPON REQUEST.

H. WELDING OF COLD-FORMED METAL FRAMING SHALL CONFORM TO AWS D1.3 AND SHALL BE PERFORMED BY WABO CERTIFIED WELDERS QUALIFIED TO PRODUCE THE SPECIFIED CLASSES OF WELD.

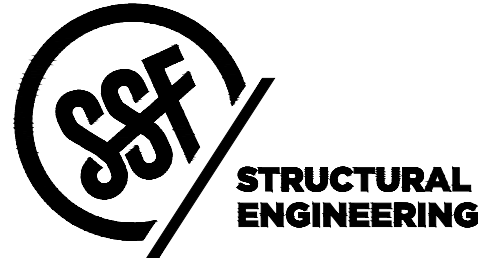
I. WALL FRAMING: REFER ARCHITECTURAL DRAWINGS FOR ALL STUD WALLS NOT SHOWN. EXTERIOR WALL STUDS SHALL BE MINIMUM 20 GAUGE (33 WILS) SPACED AT 16" O.C. UNLESS INDICATED OTHERWISE. TWO STUDS MINIMUM SHALL BE PROVIDED AT THE END OF ALL WALLS AND AT EACH SIDE OF ALL OPENINGS. TWO 800S162-54 HEADERS SHALL BE PROVIDED OVER ALL OPENINGS NOT OTHERWISE NOTED. SOLID BLOCKING FOR MULTI-STUD OR STEEL COLUMNS SHALL BE PROVIDED THROUGH FLOORS TO SUPPORTS BELOW. PROVIDE CONTINUOUS FULL WIDTH BLOCKING AT MID-HEIGHT OF ALL STUD WALLS OVER 10' IN HEIGHT.

J. ALL STUD WALLS SHALL HAVE THEIR BOTTOM TRACKS ATTACHED TO FRAMING BELOW WITH #8 SCREWS AT 24" O.C. OR ATTACHED TO CONCRETE WITH 0.145" DIAMETER DRIVE-PINS @ 24" O.C. UNLESS INDICATED OTHERWISE. INDIVIDUAL MEMBERS OF BUILT-UP POSTS SHALL BE WELDED TO EACH OTHER IN ACCORDANCE WITH THE DETAILS. REFER TO THE PLANS AND SHEAR WALL SCHEDULE FOR REQUIRED SHEATHING AND STRAP BRACING. WHEN NOT OTHERWISE NOTED, PROVIDE GYPSUM WALLBOARD ON INTERIOR SURFACES AND GYPSUM SHEATHING ON EXTERIOR SURFACES SCREWED TO ALL STUDS, TOP AND BOTTOM TRACKS AND BLOCKING WITH SCREWS AT 12" O.C. TRACK SECTIONS SHALL MATCH THE WALL STUD GAUGE, BE UN-PUNCHED AND HAVE AT LEAST 1-1/4" FLANGES.

K. BRIDGING AND BRACING IS TO BE INSTALLED AT ALL COLD FORMED STEEL BEARING WALLS. BRIDGING AND BRACING SHALL BE INSTALLED AS SHOWN ON THE STRUCTURAL PLANS, OR THE CONTRACTOR SHALL EMPLOY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF WASHINGTON TO DESIGN AN ALTERNATE BRACING SYSTEM. IF AN ALTERNATE BRACING SYSTEM IS USED, THE CONTRACTOR SHALL SUBMIT STAMPED DRAWINGS AND CALCULATIONS TO THE ENGINEER OF RECORD, WHICH DEMONSTRATES THAT THE BRACING SYSTEM WAS DESIGNED TO PROVIDE PERMANENT WEAK AXIS BRACING OF THE STUDS UNDER CODE PRESCRIBED LOADS. DOCUMENTATION SHALL BE SUBMITTED FOR REVIEW PRIOR TO CONSTRUCTION.

48. HEADED STUDS FOR COMPOSITE CONNECTION OF STRUCTURAL STEEL TO CAST-IN-PLACE CONCRETE SHALL BE MANUFACTURED FROM MATERIAL CONFORMING TO ASTM A-29, AND A-108 AND SHALL BE WELDED IN CONFORMANCE WITH A.W.S. D1.1.

49. DEFORMED BAR ANCHORS SHALL BE TYPE D2L ANCHORS BY NELSON STUD WELDING, INC. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ICC-ES ESR-2907.



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ssfengineers.com

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DRAWN:	SJB
DESIGN:	SWJ
CHECKED:	RGC
APPROVED:	RGC

REVISIONS:

DPD:

PROJECT TITLE:

Swift Center

Sedro Wooley, WA

ARCHITECT:

RMC Architects

1223 Railroad Ave

Bellingham, WA 98225

PH 360.676.7733

ISSUE:

Schematic Design

SHEET TITLE:

General Structural Notes Continued

SCALE:

DATE:

Sept. 2016

PROJECT NO:

10902-2016-03

SHEET NO:

S1.2

NO:

OF

SHEETS:

DRAWN:	SJB
DESIGN:	SWJ
CHECKED:	RGC
APPROVED:	RGC

REVISIONS:

PD: _____

PROJECT TITLE:

Swift Center

edro Wooley, WA

ARCHITECT:

PMC Architects
223 Railroad Ave
Bellingham, WA 98225
PH 360.676.7733

SUE:

Schematic Design

SHEET TITLE:

Foundation Plan & Upper Floor Framing Plan

SCALE: $1/16" = 1'-0"$ U.N.O

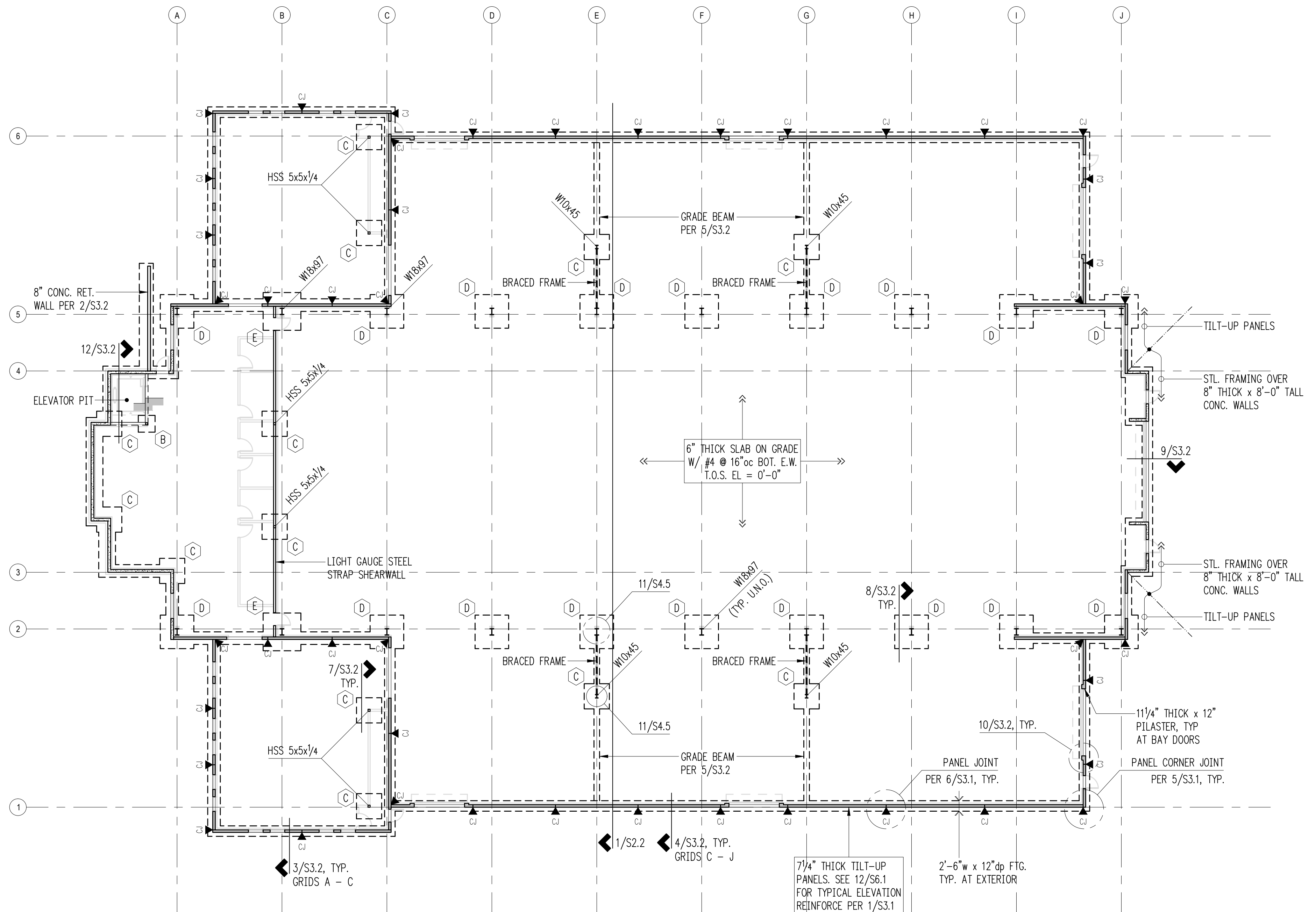
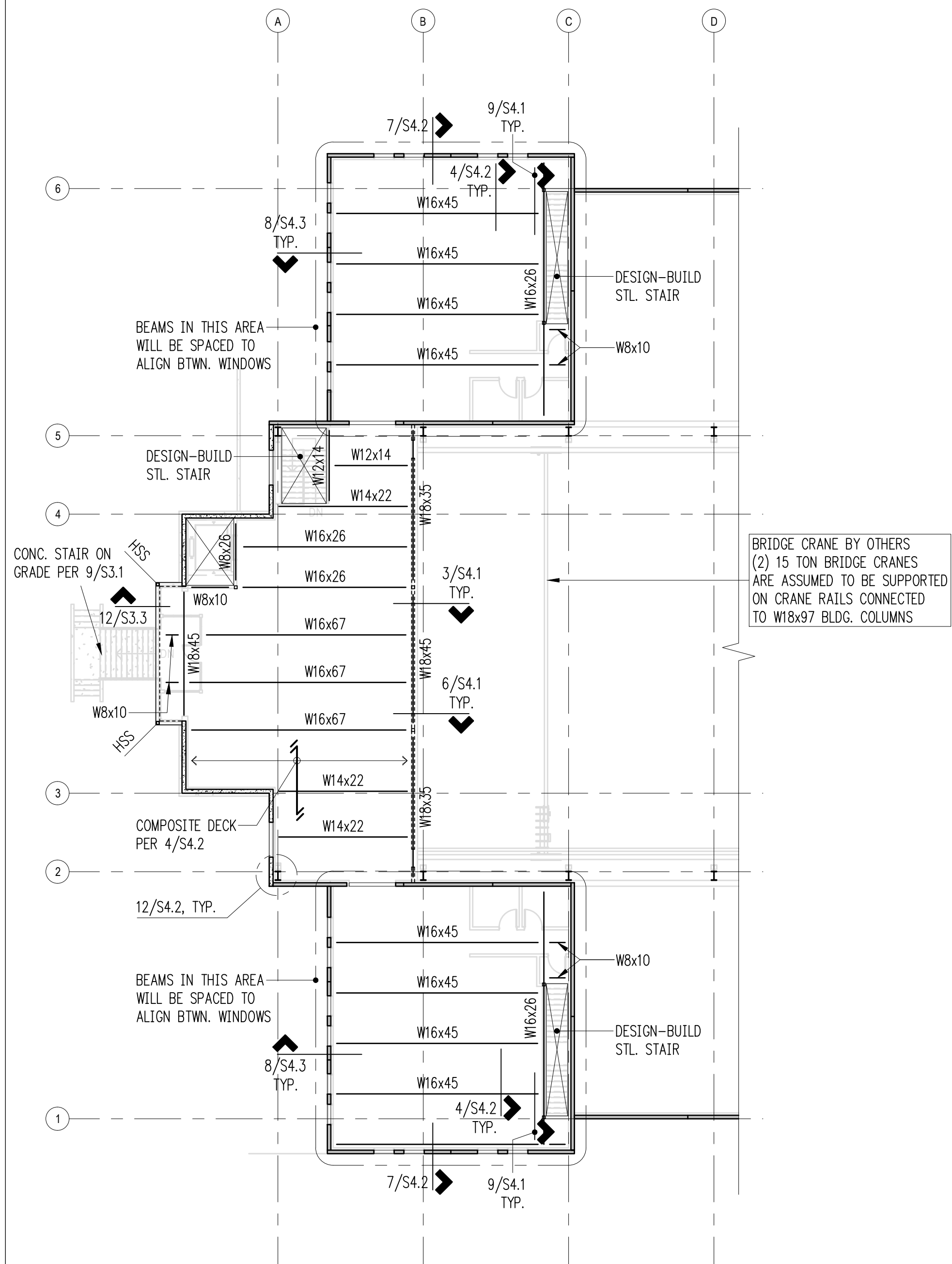
Sept. 2016

PROJECT NO:	10902-2016-03
-------------	---------------

SHEET NO:

S2.1





OF SHEETS:



Plan Notes

1. DO NOT SCALE THE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
2. SEE SHEETS S3.1 AND S3.2 FOR TYPICAL CONCRETE DETAILS.
3. SEE SHEET S4.1 FOR TYPICAL STEEL FRAMING DETAILS.
4. SEE SHEET S4.2 FOR TYPICAL COMPOSITE DECK DETAILS.
5. SEE SHEETS S5.1 AND S5.2 FOR TYPICAL LIGHT GAUGE STEEL FRAMING DETAILS.
6. SEE SHEET S6.1 FOR TYPICAL TILT-UP WALL PANEL ELEVATION.
7. ALL LOCATIONS OF PENETRATIONS IN FLOOR DECK SHALL BE COORDINATED WITH MECHANICAL, ELECTRICAL AND ARCHITECTURAL DRAWINGS.
8. REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

Legend

	CAST-IN-PLACE CONCRETE WALL & FOUNDATION
	TILT-UP CONCRETE WALL & FOUNDATION
	LIGHT GAUGE STEEL STRAP SHEARWALL
	WALL BELOW

W14x22 (X) C=X"

BEAM SIZE

NO. OF STUDS

CAMBER

Upper Floor Framing Plan

Scale: $1/16"=1'-0"$



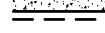





Plan Notes

1. DO NOT SCALE THE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
2. THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE 18" MINIMUM BELOW GRADE.
3. ALL FOOTINGS SHALL BE FOUND ON UNDISTURBED NATIVE SOIL OR STRUCTURAL FILL PER GEOTECH.
4. PROVIDE CONTROL JOINTS IN SLABS ON GRADE PER 4/S3.1.
5. SEE SHEETS S3.1 AND S3.2 FOR TYPICAL CONCRETE DETAILS.
6. SEE SHEET S4.1 FOR STEEL COLUMN BASE PLATE CONNECTION DETAILS.
7. SEE SHEET S4.5 FOR BRACED FRAME COLUMN BASE PLATE DETAILS.
8. SEE SHEET S6.1 FOR TYPICAL TILT-UP WALL PANEL ELEVATION.
9. COORDINATE CONCRETE WALL OPENINGS LOCATIONS WITH ARCHITECTURAL DRAWINGS.
10. REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

Footing Schedule

Mark	Size	Depth
A	3'-0"sq	12"
B	4'-0"sq	12"
C	6'-0"sq	12"
D	8'-0"sq	15"
E	9'-0"sq	18"
F	10'-0"sq	18"

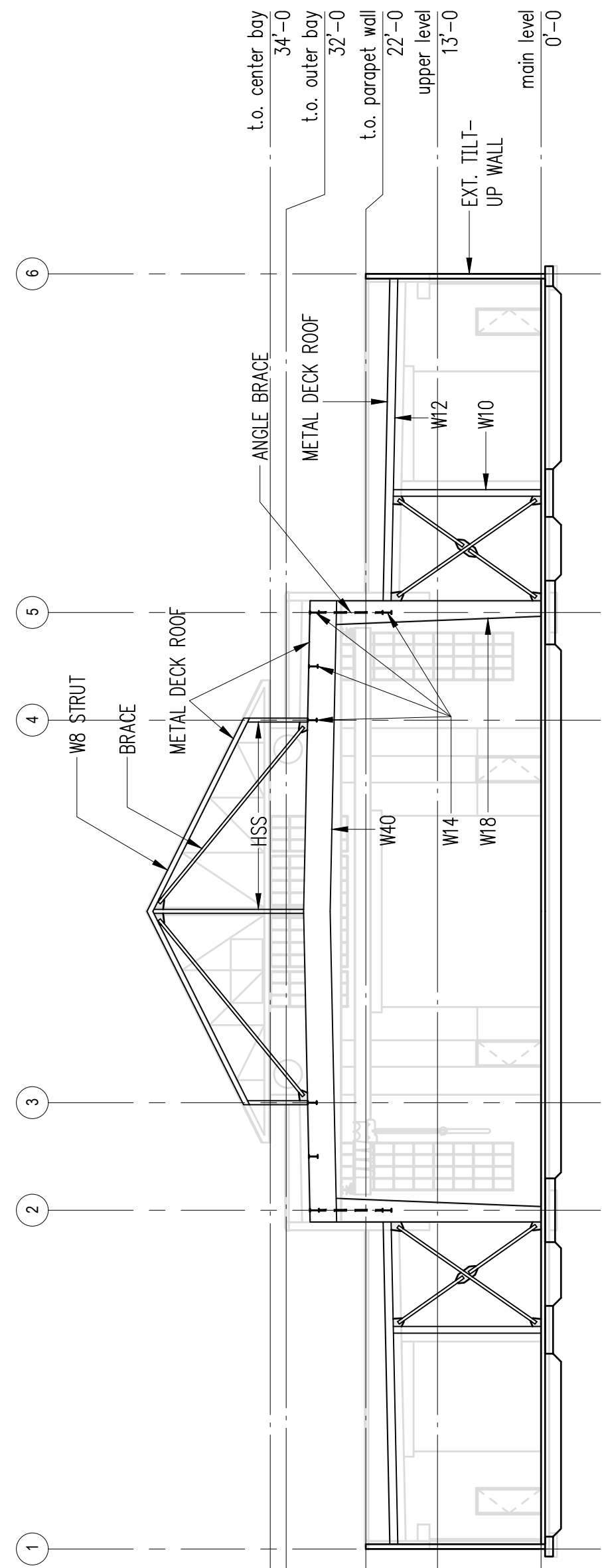
Legend

	CAST-IN-PLACE CONCRETE WALL & FOUNDATION
	TILT-UP CONCRETE WALL & FOUNDATION
	LIGHT GAUGE STEEL STRAP SHEARWALL
	TOP OF FOOTING/GRADE BEAM ELEVATION
	PANEL WALL JOINT LOCATION
	FOOTING PER SCHEDULE

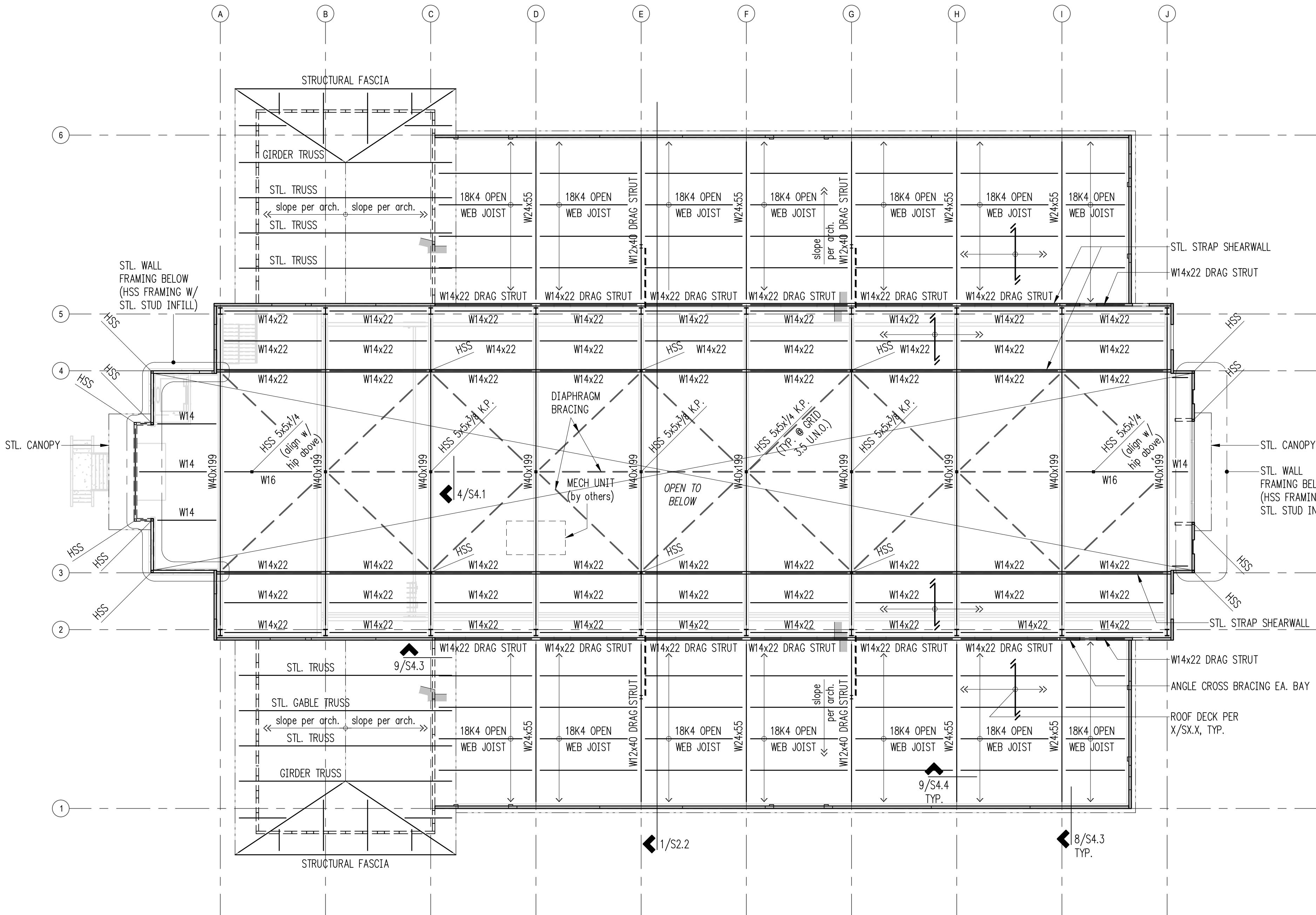
Foundation Plan

Scale: $1/16"=1'-0"$





Schematic Building Section 1
Scale: 1/16" = 1'-0"



Plan Notes

- DO NOT SCALE THE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
- SEE SHEET S4.1 FOR TYPICAL STEEL FRAMING DETAILS.
- SEE SHEET S4.4 FOR TYPICAL OPEN-WEB JOIST AND ROOF DECK FRAMING DETAILS.
- SEE SHEET S4.5 FOR BRACED FRAME DETAILS.
- SEE SHEETS S5.1 AND S5.2 FOR TYPICAL LIGHT GAUGE STEEL FRAMING DETAILS.
- SEE SHEET S6.1 FOR TYPICAL TILT-UP WALL PANEL ELEVATION.
- ALL LOCATIONS OF PENETRATIONS IN ROOF DECK SHALL BE COORDINATED WITH MECHANICAL, ELECTRICAL AND ARCHITECTURAL DRAWINGS.
- COORDINATE MECHANICAL UNIT LOCATIONS WITH MECHANICAL DRAWINGS.
- REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

Legend

- TILT-UP CONCRETE WALL
- LIGHT GAUGE STUD WALL
- ROOF DECK & EXTENTS
- WALL BELOW
- K.P. KING POST
- DIAPHRAGM CROSS BRACING HSS 6x6
- BRACED FRAME BELOW

Low Roof Framing Plan
Scale: 1/16"=1'-0"

DRAWN:	SJB
DESIGN:	SWJ
CHECKED:	RGC
APPROVED:	RGC

REVISIONS:

DPD:

PROJECT TITLE:

Swift Center
Sedro Wooley, WA

ARCHITECT:
RMC Architects
1223 Railroad Ave
Bellingham, WA 98225
PH 360.676.7733

ISSUE:
Schematic Design

SHEET TITLE:

Low Roof Framing Plan

SCALE:
1/16" = 1'-0" U.N.O.

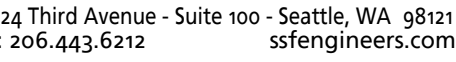
DATE:
Sept. 2016

PROJECT NO:
10902-2016-03

SHEET NO:

S2.2

NO: OF SHEETS:



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DRAWN:	SJB
DESIGN:	SWJ
CHECKED:	RGC
APPROVED:	RGC

REVISIONS:

PD: _____

PROJECT TITLE: _____

Swift Center
Medro Wooley, WA

ARCHITECT:
PMC Architects
223 Railroad Ave
Bellingham, WA 98225
PH 360.676.7733

SUE: Schematic Design

SHEET TITLE:

High Roof Framing Plan

SCALE: $1/16" = 1'-0"$ U.N.O.

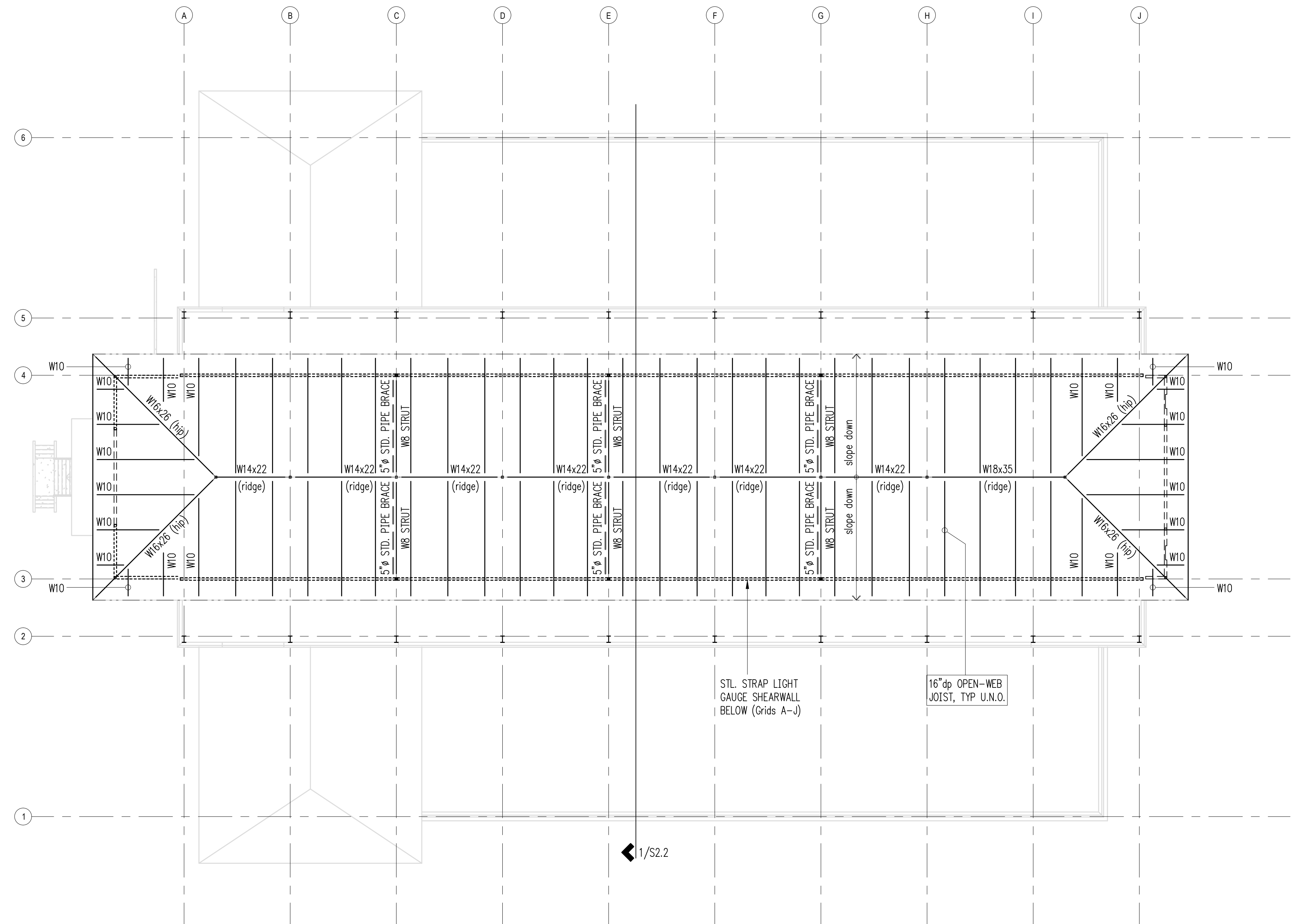
DATE: Sept. 2016

PROJECT NO: 10902-2016-03

SHEET NO:

S2.3

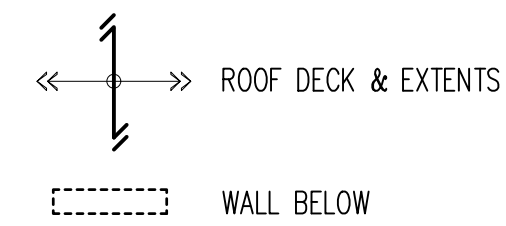
OF SHEETS:



Plan Notes

1. DO NOT SCALE THE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
2. TYPICAL FRAMING CONSISTS OF METAL DECK OVER 16" DEEP OPEN-WEB JOISTS OR W10 WIDE FLANGE BEAMS @ 8'-0" oc.
3. SEE SHEET S4.1 FOR TYPICAL STEEL FRAMING DETAILS.
4. SEE SHEET S4.4 FOR TYPICAL OPEN-WEB JOIST AND ROOF DECK FRAMING DETAILS.
5. SEE SHEETS S5.1 AND S5.2 FOR TYPICAL LIGHT GAUGE STEEL FRAMING DETAILS.
6. ALL LOCATIONS OF PENETRATIONS IN ROOF DECK SHALL BE COORDINATED WITH MECHANICAL, ELECTRICAL AND ARCHITECTURAL DRAWINGS.
7. COORDINATE MECHANICAL UNIT LOCATIONS WITH MECHANICAL DRAWINGS.
8. REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

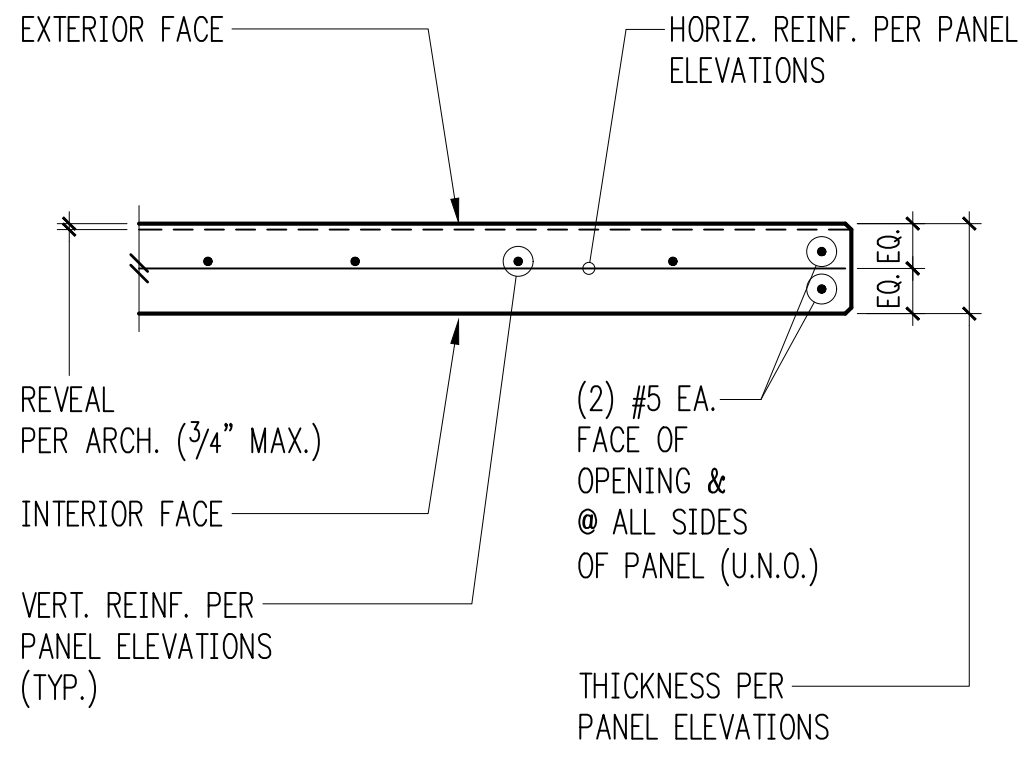
Legend



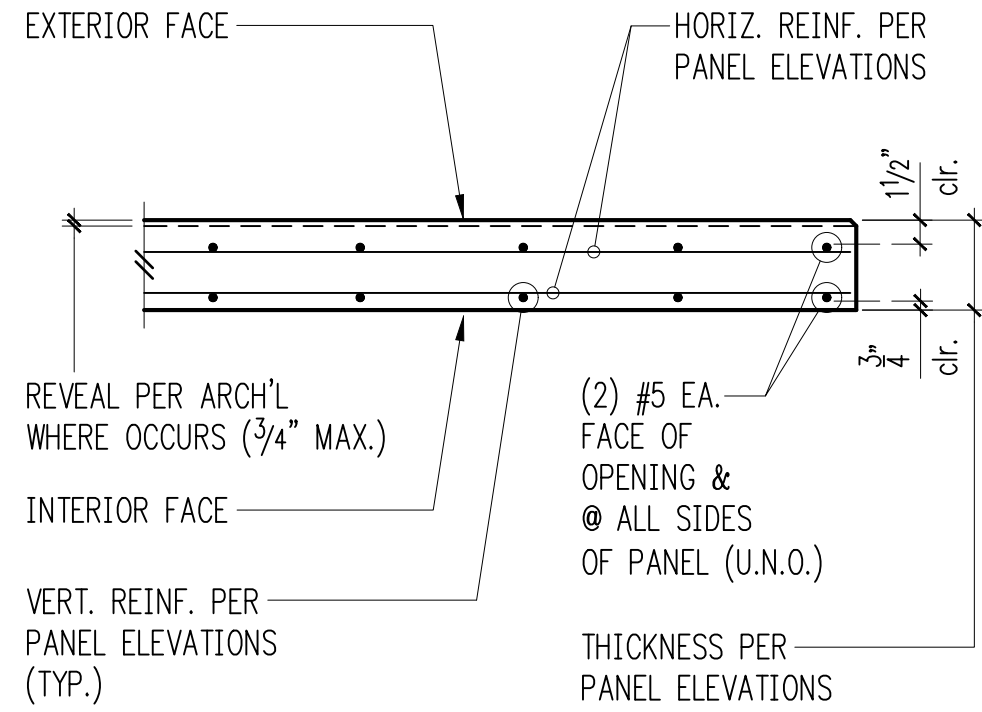
High Roof Framing Plan

Scale: $\frac{1}{16}''=1'-0''$

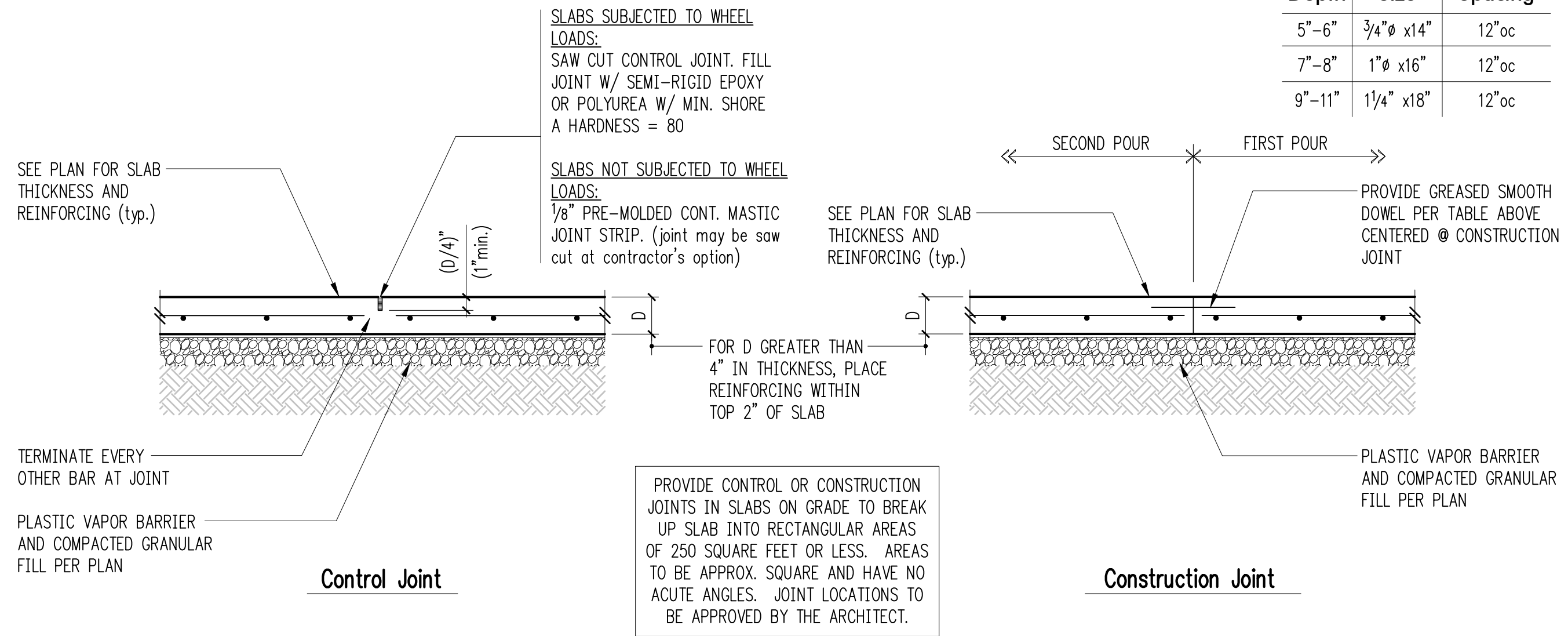




SINGLE MAT REINFORCING PLACEMENT
TILT-UP PANEL

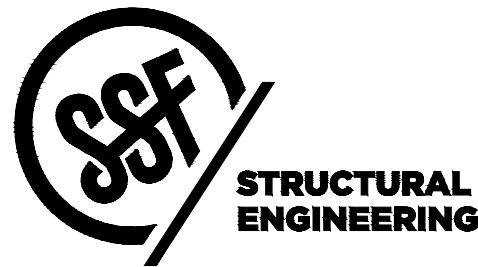


DOUBLE MAT REINFORCING PLACEMENT
TILT-UP PANEL



Table

Slab Depth	Dowel Size	Dowel Spacing
5"-6"	3/4"Ø x14"	12"oc
7"-8"	1"Ø x16"	12"oc
9"-11"	1 1/4" x18"	12"oc

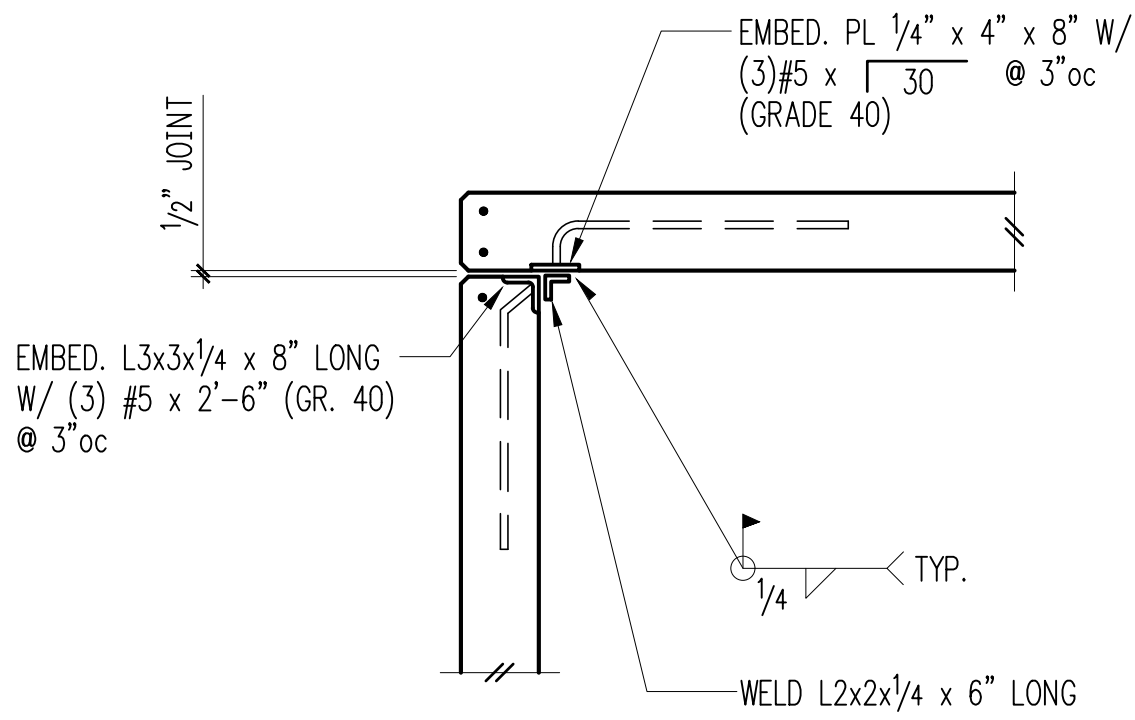


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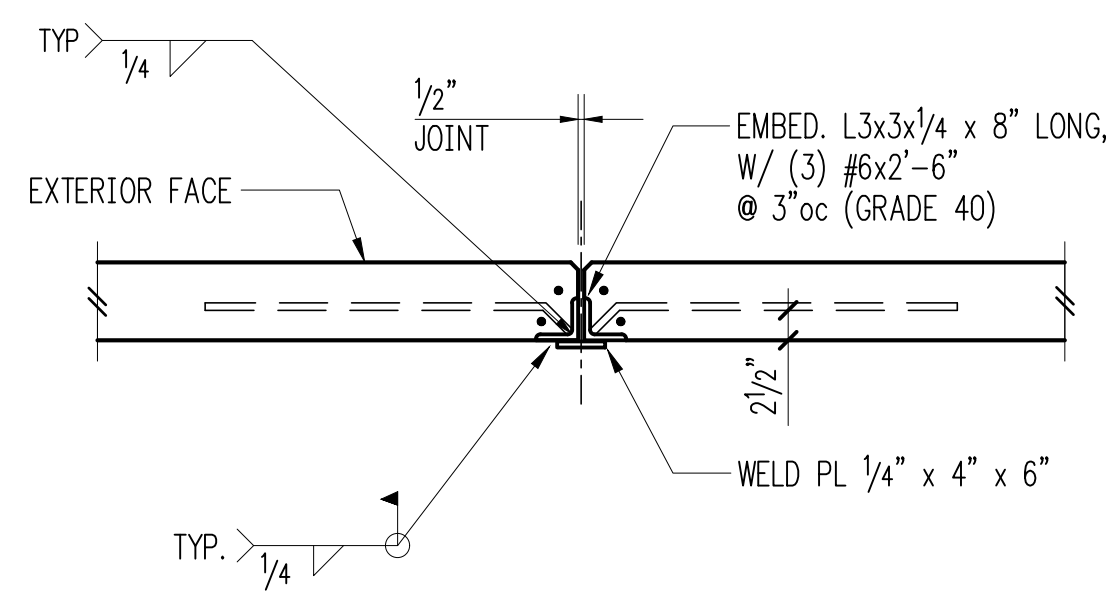
DRAWN:	SJB
DESIGN:	SWJ
CHECKED:	RGC
APPROVED:	RGC

Typical Slab Joints (rebar)



PLAN VIEW

Typical Corner Tilt-Up Panel Joint



PLAN VIEW

Typical Tilt-Up Panel Joint

Reinforcing Splice and Development Length Schedule

For $f_c = 3000$ psi, Grade 60 Reinforcing

I Minimum Straight Development Length (ℓ_d)

Bar Size	Top Bars	Other Bars
#3	22"	17"
#4	29"	22"
#5	36"	28"
#6	43"	33"
#7	63"	48"
#8	72"	55"
#9	81"	62"
#10	91"	70"
#11	101"	78"

II Minimum Lap Splice Lengths (ℓ_s)

Bar Size	Top Bars	Other Bars
#3	28"	22"
#4	37"	29"
#5	47"	36"
#6	56"	43"
#7	81"	63"
#8	93"	72"
#9	105"	81"
#10	118"	91"
#11	131"	101"

TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" DEPTH OF CONCRETE CAST BELOW THEM.

IF CLEAR CONCRETE COVER IS NOT GREATER THAN THE DIAMETER OF THE BAR, OR THE CENTER TO CENTER SPACING IS NOT GREATER THAN 3 BAR DIAMETERS, THEN LENGTHS SHALL BE INCREASED BY 50%

Minimum Embedment Lengths (ℓ_{dh}) For Standard End Hooks

Bar Size	Length
#3	6"
#4	8"
#5	10"
#6	12"
#7	14"
#8	16"
#9	18"
#10	20"
#11	22"

- SIDE COVER MUST BE EQUAL TO OR GREATER THAN 2 1/2"
- END COVER FOR 90° HOOKS MUST BE EQUAL TO OR GREATER THAN 2"

Reinforcing Splice and Development Length Schedule

For $f_c = 4000$ psi, Grade 60 Reinforcing

I Minimum Straight Development Length (ℓ_d)

Bar Size	Top Bars	Other Bars
#3	19"	15"
#4	25"	19"
#5	31"	24"
#6	37"	29"
#7	54"	42"
#8	62"	48"
#9	70"	54"
#10	79"	61"
#11	87"	67"

II Minimum Lap Splice Lengths (ℓ_s)

Bar Size	Top Bars	Other Bars
#3	24"	19"
#4	32"	25"
#5	40"	31"
#6	48"	37"
#7	70"	54"
#8	81"	62"
#9	91"	70"
#10	102"	79"
#11	113"	87"

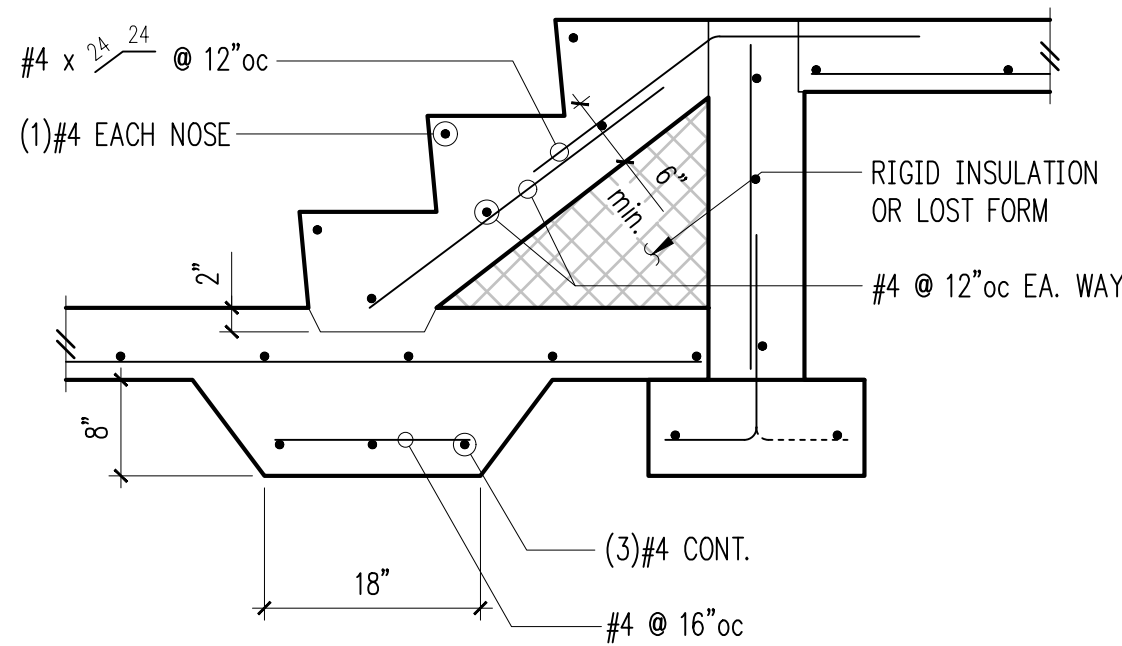
TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" DEPTH OF CONCRETE CAST BELOW THEM.

IF CLEAR CONCRETE COVER IS NOT GREATER THAN THE DIAMETER OF THE BAR, OR THE CENTER TO CENTER SPACING IS NOT GREATER THAN 3 BAR DIAMETERS, THEN LENGTHS SHALL BE INCREASED BY 50%

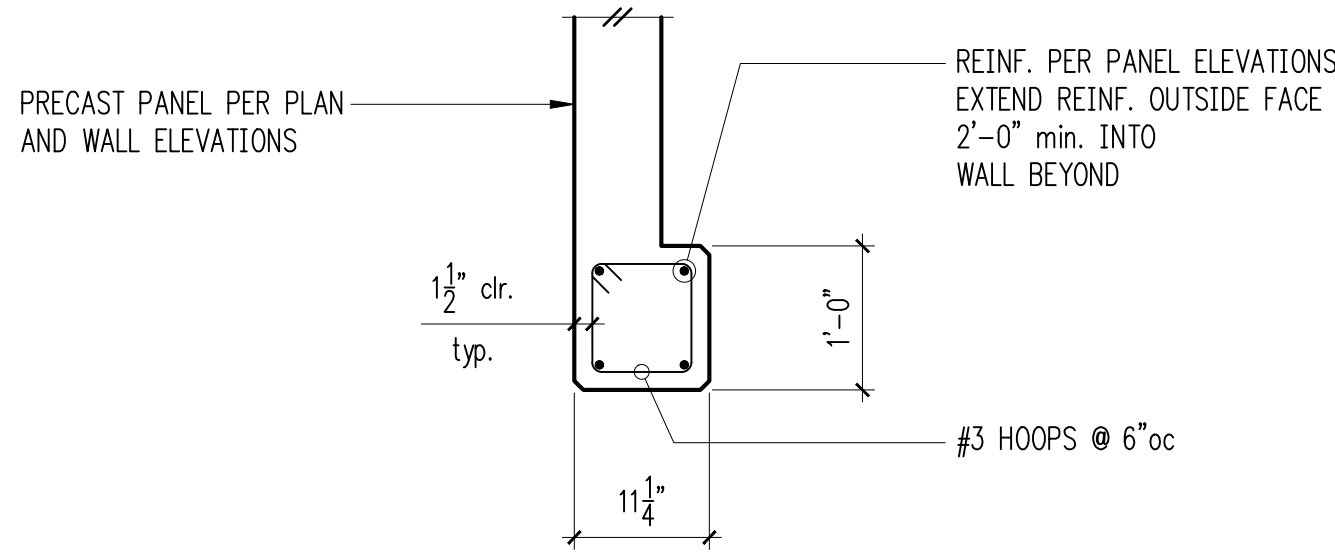
Minimum Embedment Lengths (ℓ_{dh}) For Standard End Hooks

Bar Size	Length
#3	6"
#4	7"
#5	9"
#6	10"
#7	12"
#8	14"
#9	15"
#10	17"
#11	19"

- SIDE COVER MUST BE EQUAL TO OR GREATER THAN 2 1/2"
- END COVER FOR 90° HOOKS MUST BE EQUAL TO OR GREATER THAN 2"



Typical Stair On Grade



Typical Pilaster

Reinforcing Splice Length & Development Length (3000psi)

Reinforcing Splice Length & Development Length (4000psi)

Typical Slab Joints (rebar)

REVISIONS:

DPD:

PROJECT TITLE:

Swift Center
Sedro Wooley, WA

ARCHITECT:
RMC Architects
1223 Railroad Ave
Bellingham, WA 98225
PH 360.676.7733

ISSUE:

Schematic Design

SHEET TITLE:

Typical Concrete Details

SCALE:
3/4" = 1'-0" U.N.O.

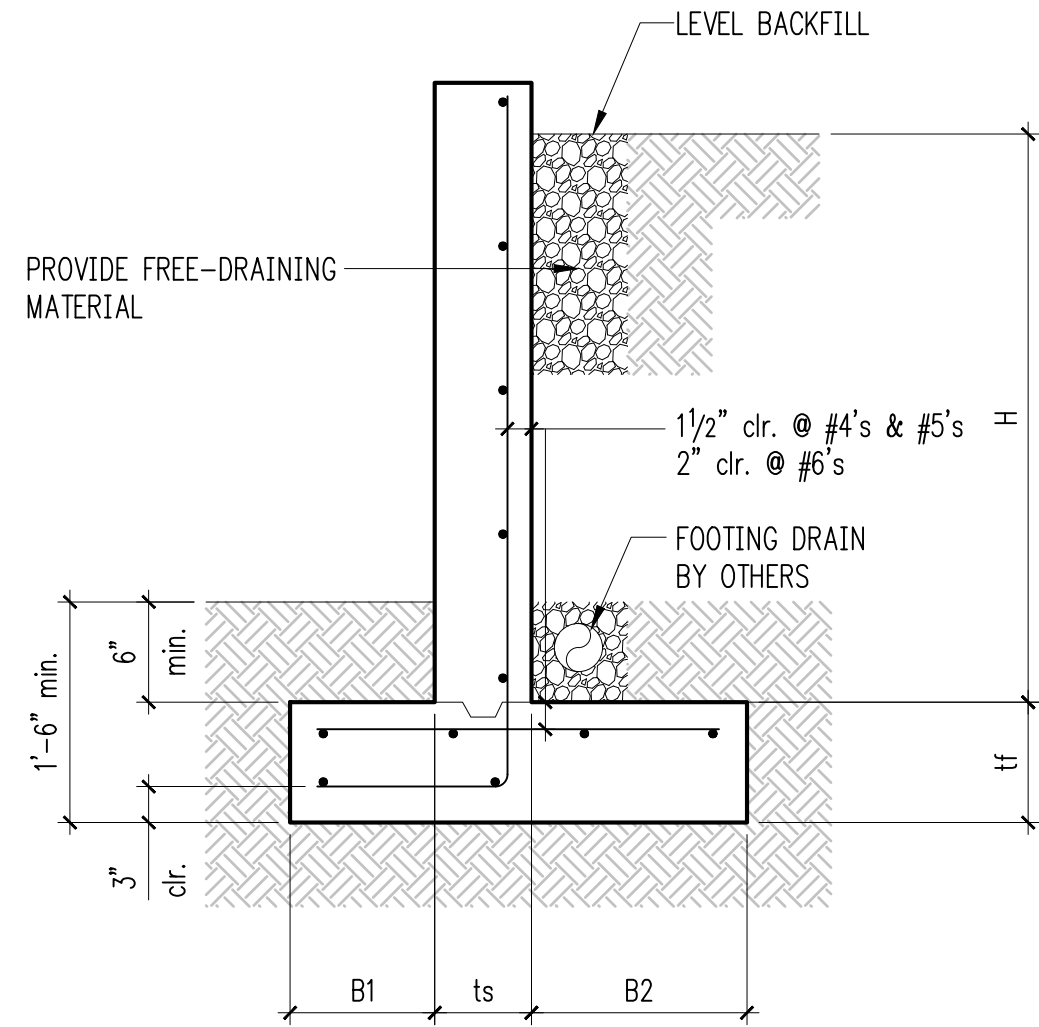
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Sept. 2016

PROJECT NO:
10902-2016-03

SHEET NO:

S3.1

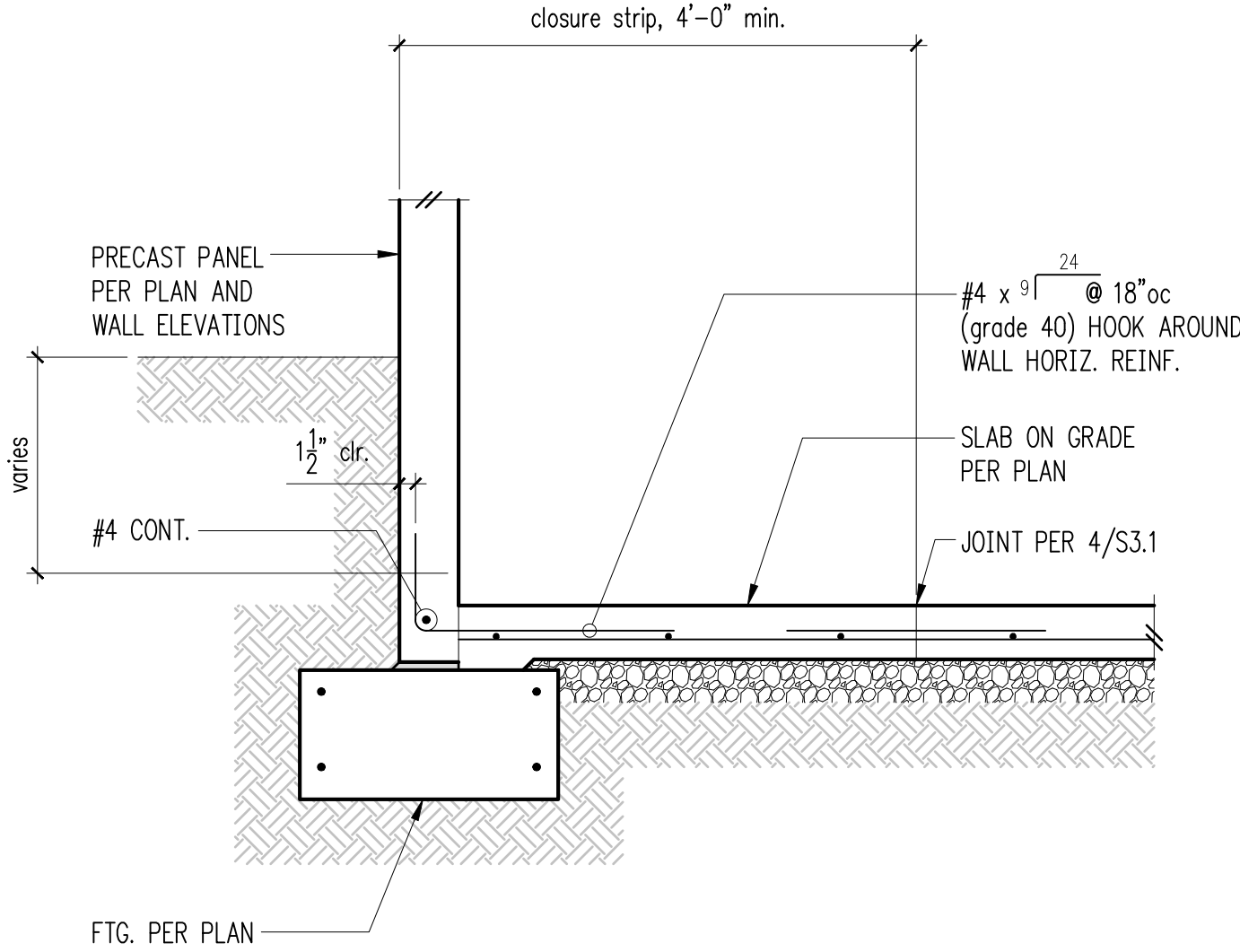
NO: OF SHEETS:



Retaining Wall Schedule

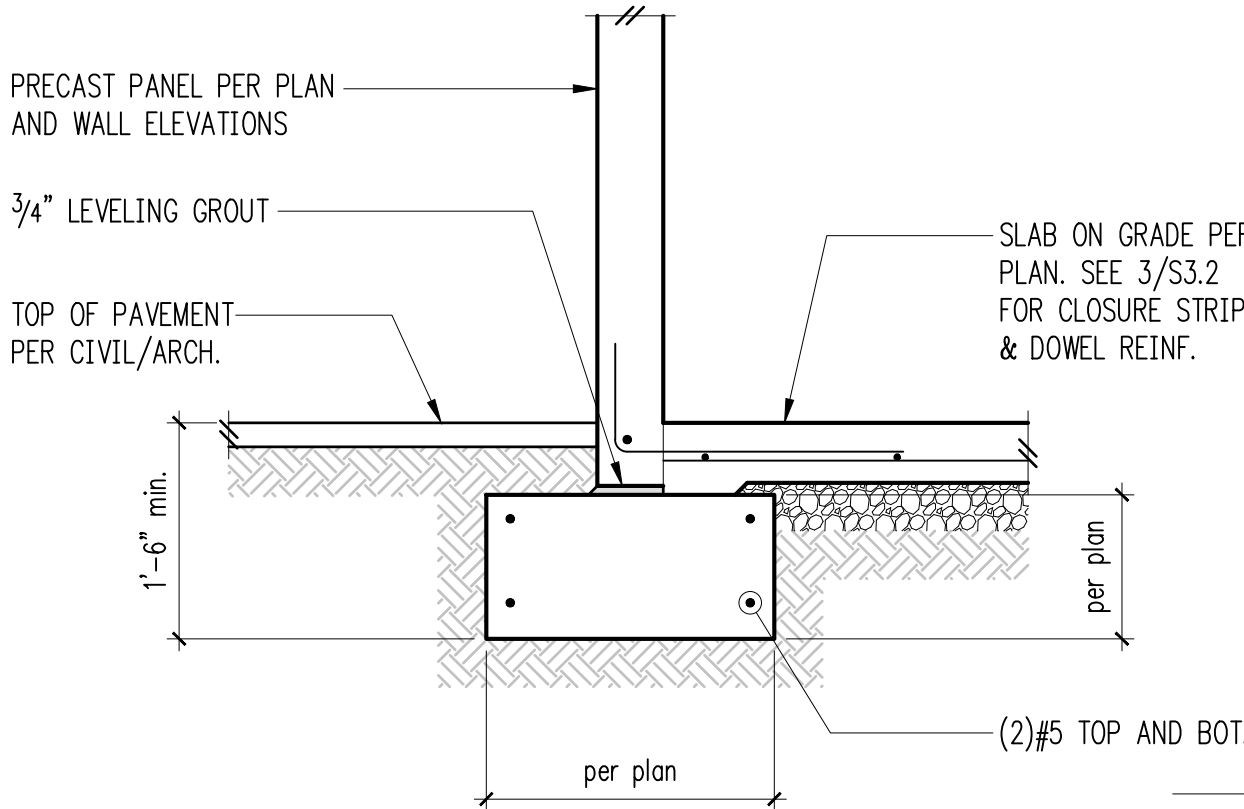
H (ft.)	B1	ts	B2	tf	Stem Reinforcing		Footing Reinforcing	
					Vert.	Horiz.	Top	Longit.
3'-0"	5"	8"	5"	8"	#4 @ 18"oc	#4 @ 12"oc	-	(2)#4
4'-0"	5"	8"	1'-0"	8"	#4 @ 18"oc	#4 @ 12"oc	#4 @ 18"oc	(2)#4
6'-0"	5"	8"	2'-3"	10"	#4 @ 12"oc	#4 @ 12"oc	#4 @ 12"oc	(4)#4
8'-0"	1'-0"	8"	2'-9"	12"	#5 @ 12"oc	#4 @ 12"oc	#5 @ 12"oc	(5)#5
10'-0"	1'-9"	8"	3'-9"	18"	#7 @ 12"oc	#4 @ 12"oc	#6 @ 12"oc	(8)#5

2



Typical Exterior Precast Wall Footing

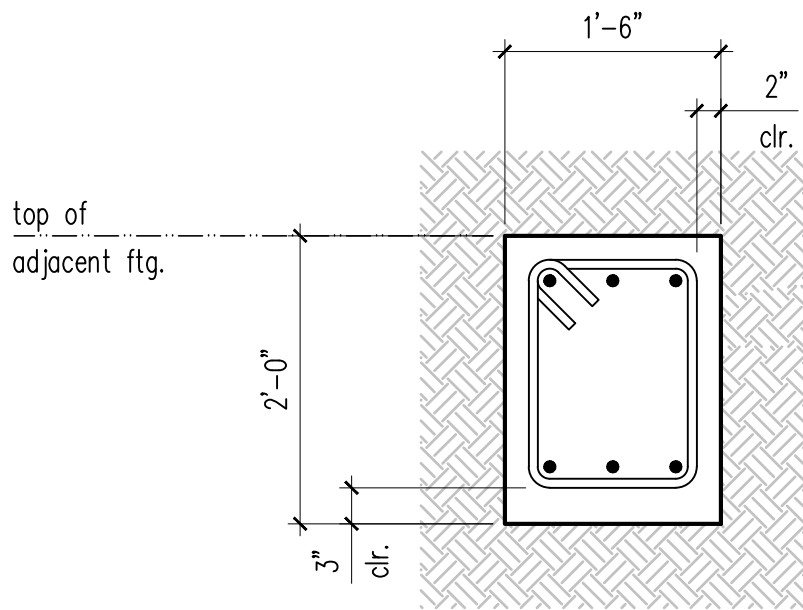
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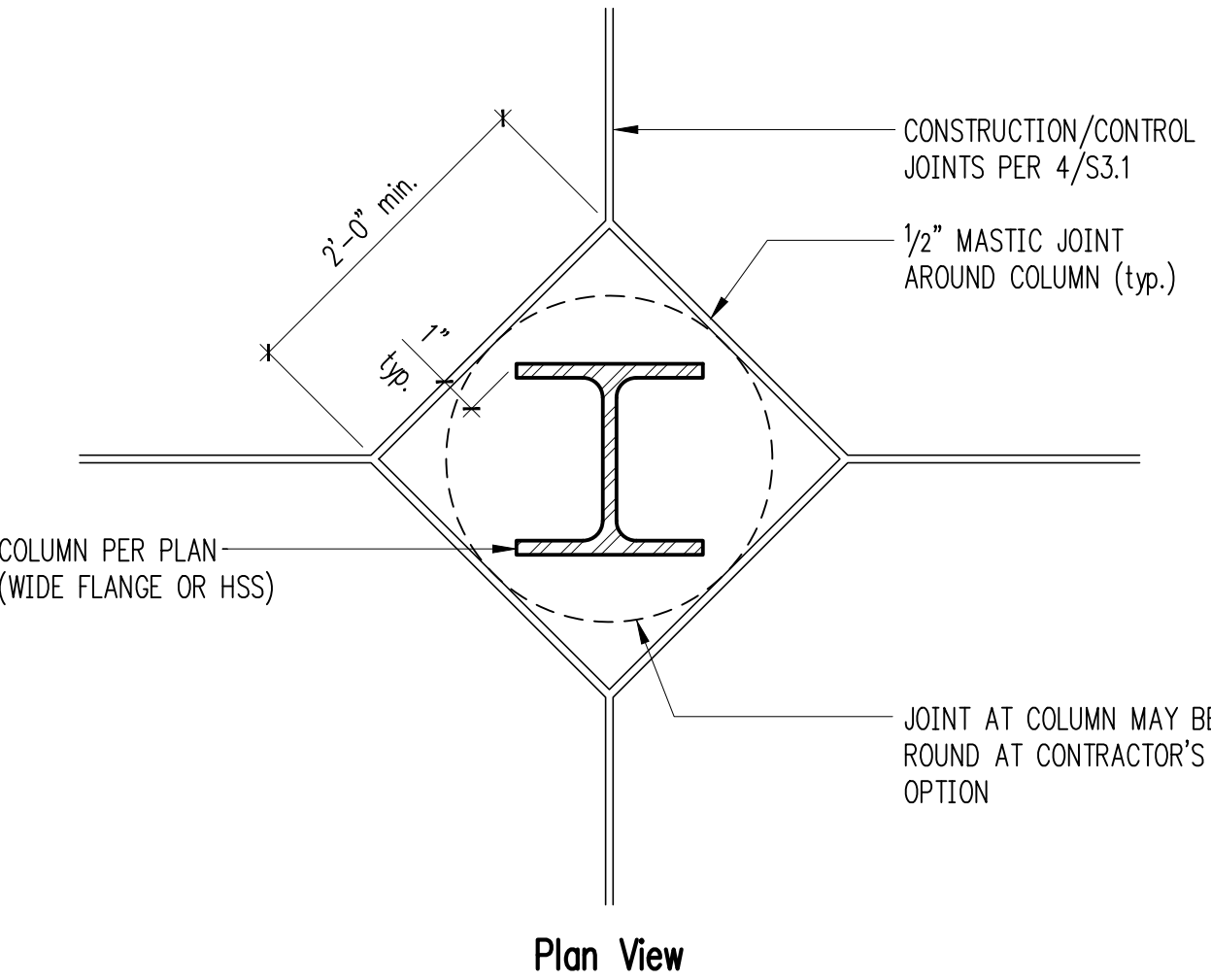
Typical Exterior Precast Wall Footing

4

- NOTES:
- SEE PLANS FOR GRADE BEAM LOCATIONS.
 - DEVELOP OR DOWEL AND LAP SPLICE GRADE BEAM LONGITUDINAL BARS TO PILE CAPS.
 - TOPS OF GRADE BEAMS AND PILE CAPS SHALL MATCH. SLOPE GRADE BEAMS WHERE REQUIRED.

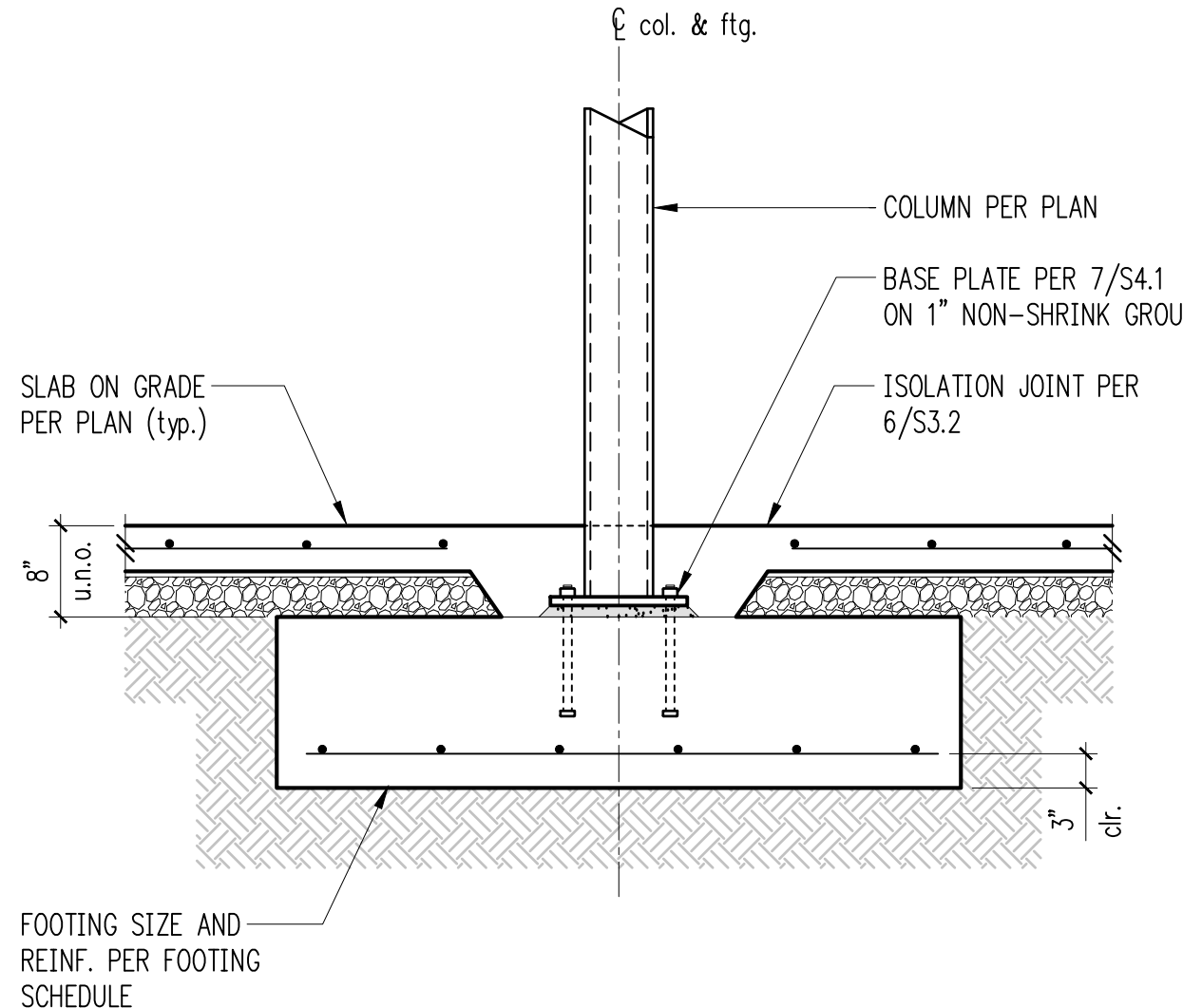


Typical Grade Beam



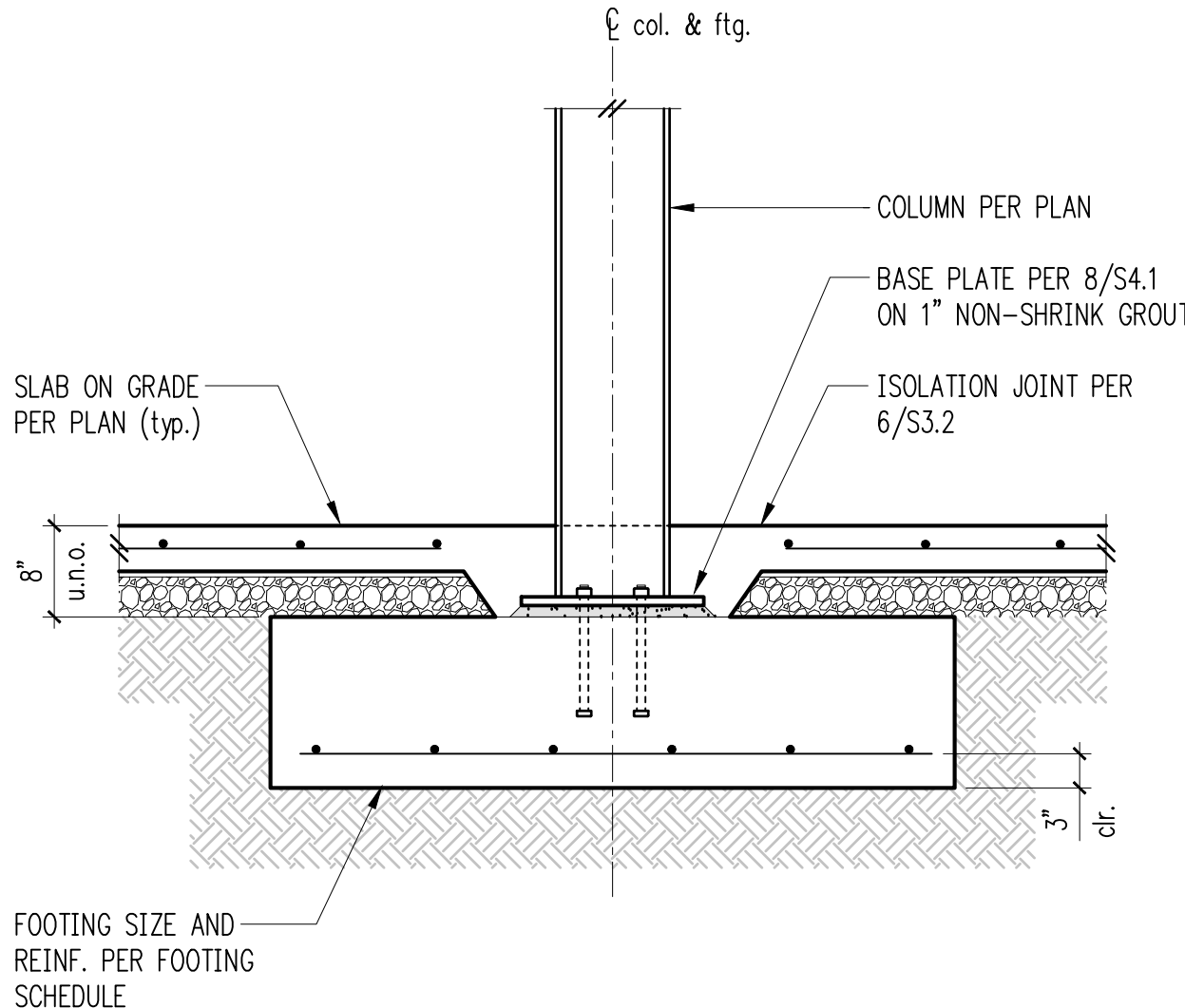
Typical Slab Isolation Joint

6



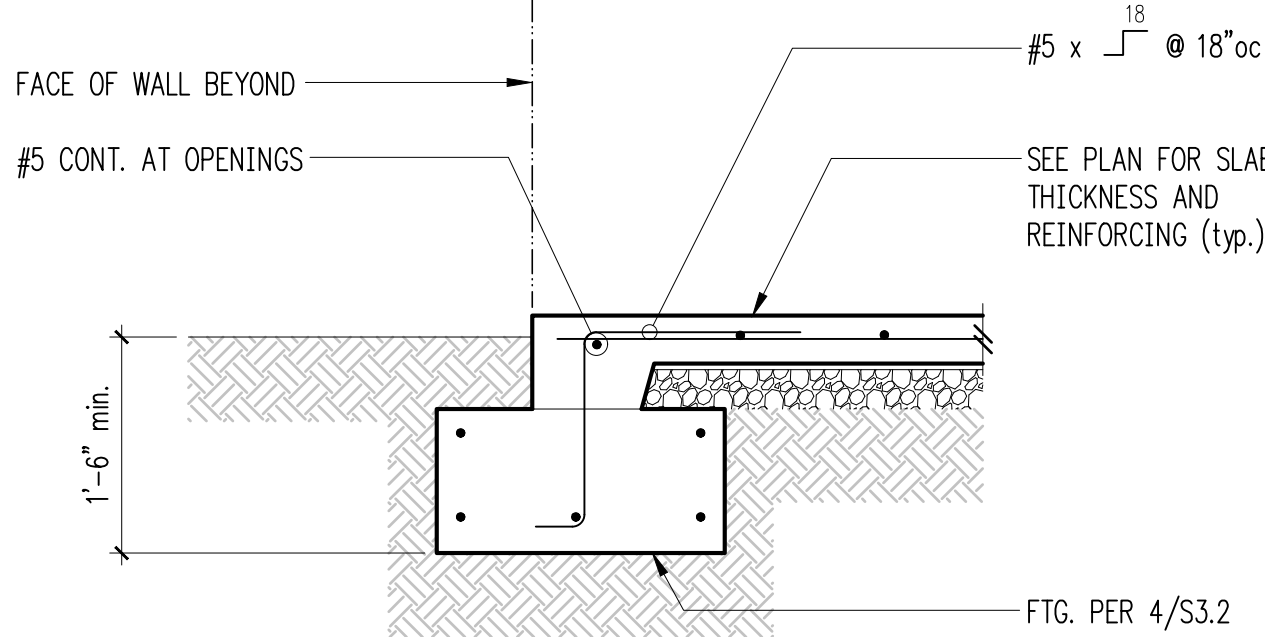
Typical Interior HSS Column Footing

7

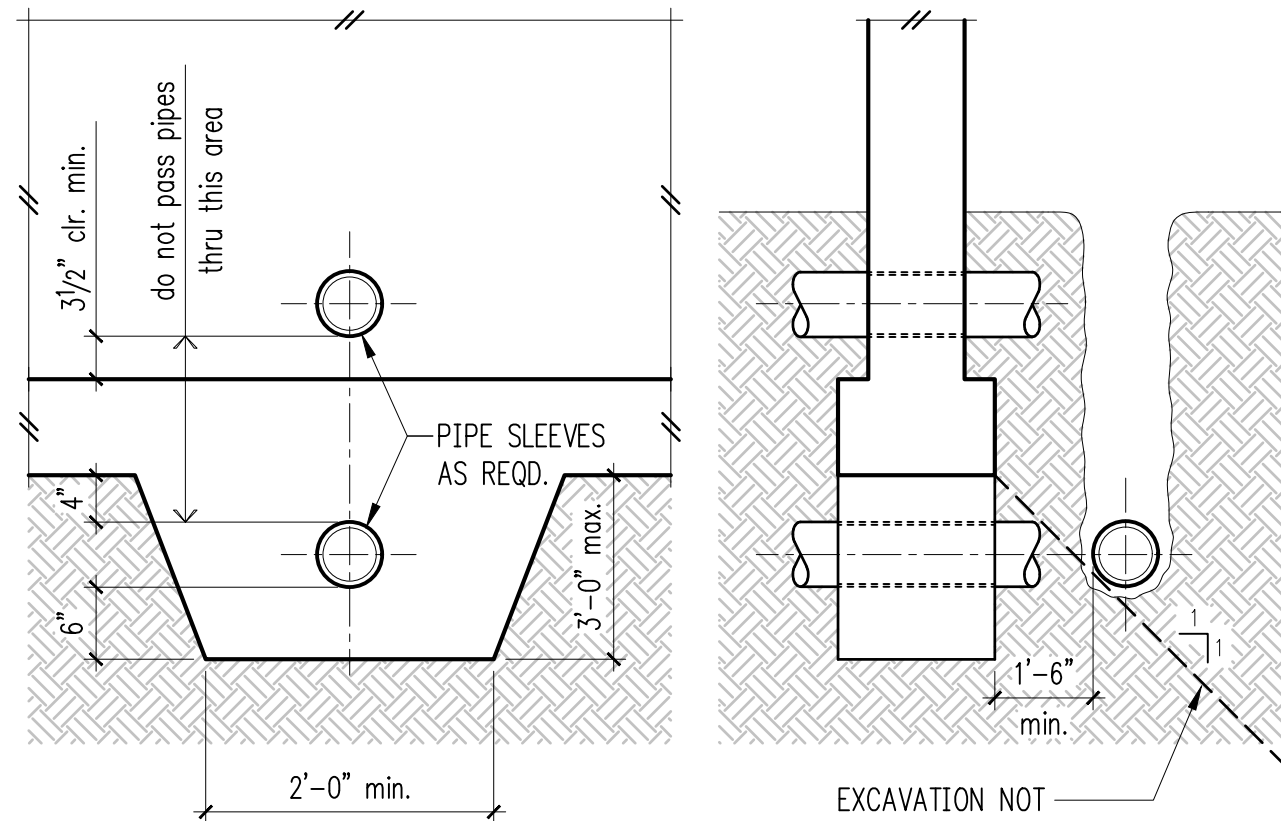


Typical Interior Column Footing

8

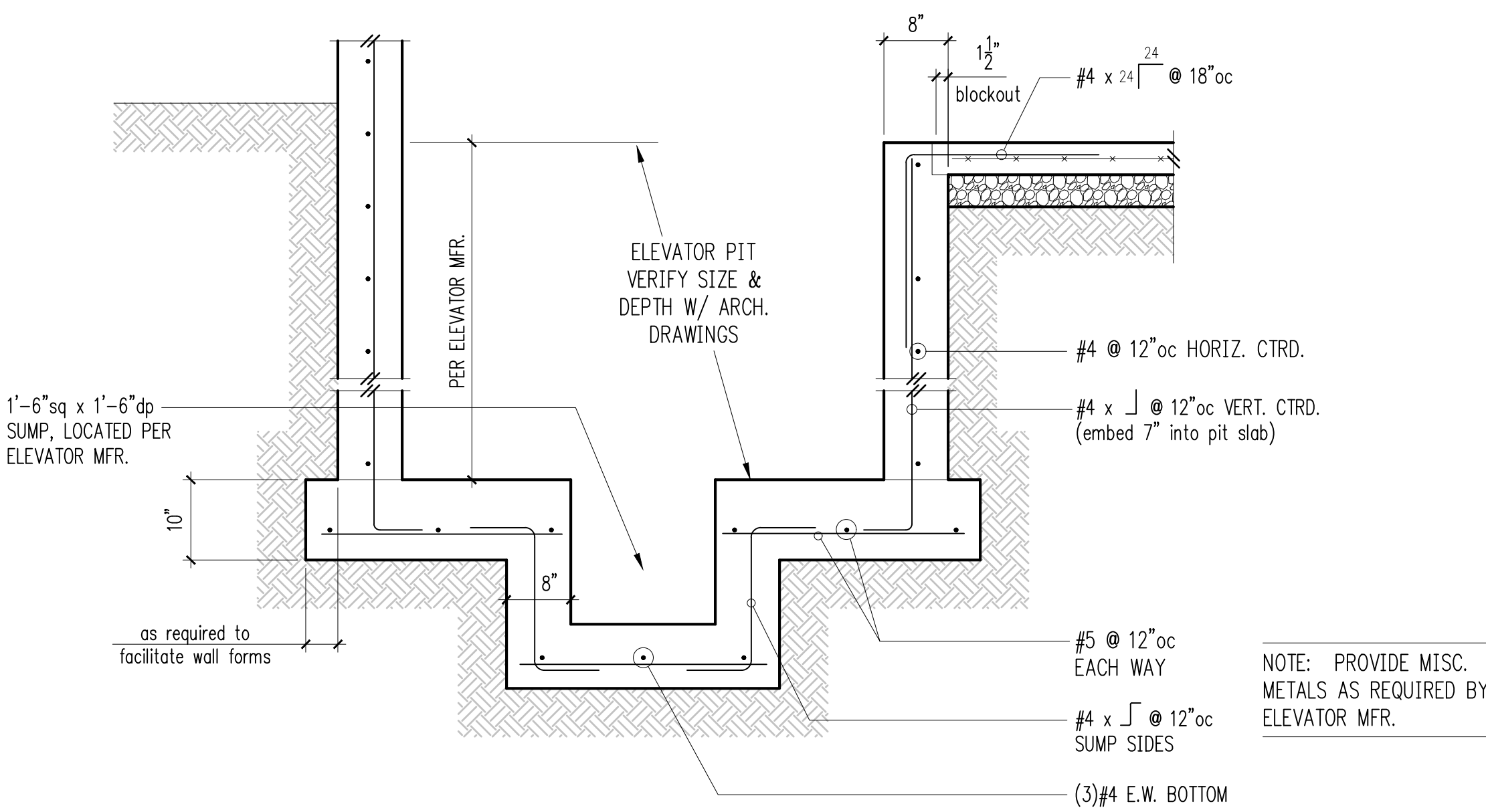


Typical Turned-Down Slab Edge



Pipe and Trench Locations

10



Typical Elevator Pit w/ Sump

12

DRAWN:	SJB
DESIGN:	SWJ
CHECKED:	RGC
APPROVED:	RGC

FOR CALLOUTS IN COMMON SEE 3/S3.2

REVISIONS:

DPD:

PROJECT TITLE:

Swift Center
Sedro Wooley, WA

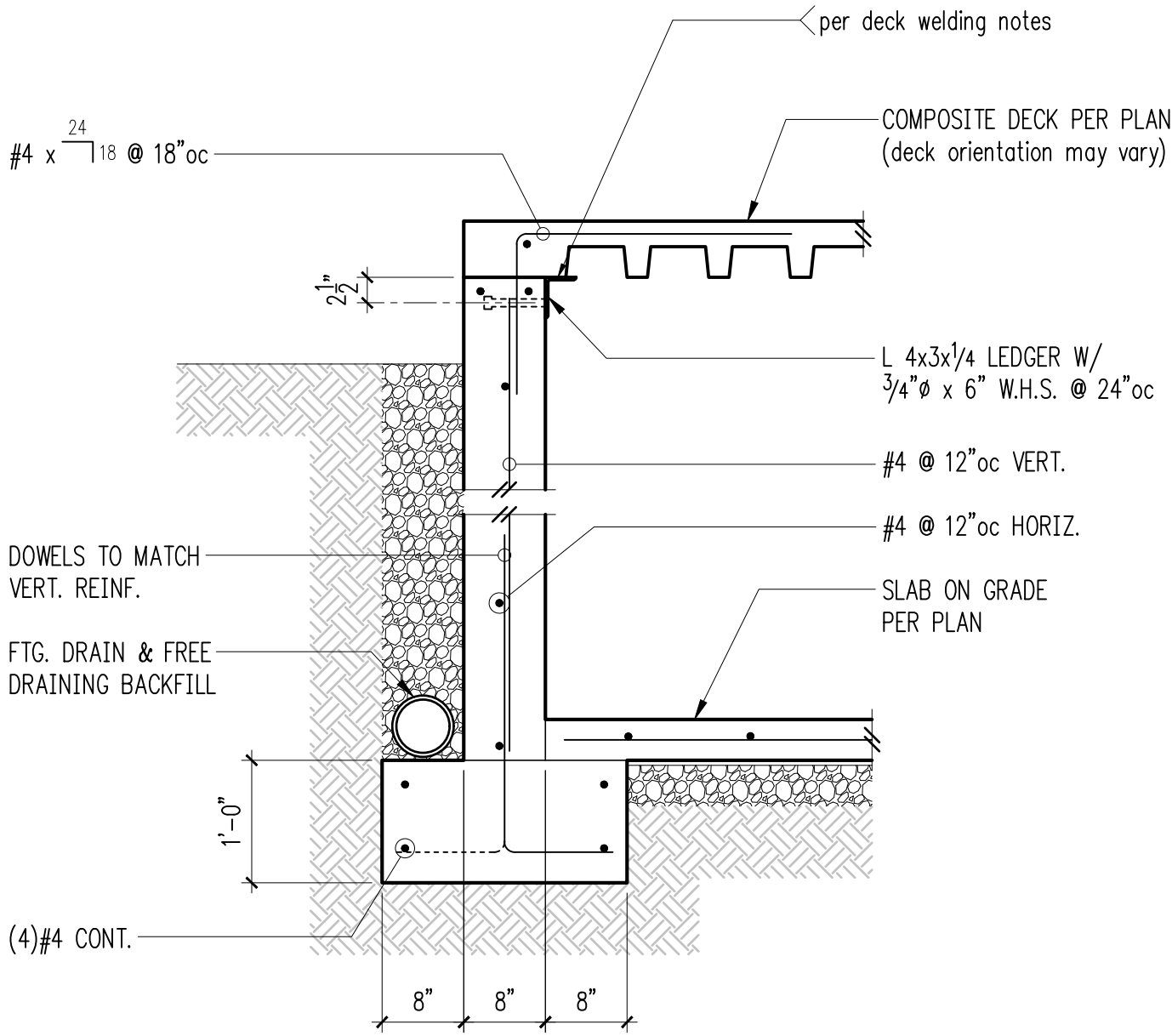
ARCHITECT:
RMC Architects
1223 Railroad Ave
Bellingham, WA 98225
PH 360.676.7733

ISSUE:
Schematic Design
SHEET TITLE:

Typical Concrete Details

SCALE:
3/4" = 1'-0" U.N.O.
DATE:
Sept. 2016
PROJECT NO:
10902-2016-03
SHEET NO:

1	2	3	4
5	6	7	8
9	10	11	12



Typical Section Thru Cast-in-Place Wall at North Entry

DRAWN:	SJB
DESIGN:	SWJ
CHECKED:	RGC
APPROVED:	RGC

REVISIONS:
DPD:

PROJECT TITLE:

Swift Center
Sedro Wooley, WA

ARCHITECT:

RMC Architects
1223 Railroad Ave
Bellingham, WA 98225
PH 360.676.7733

ISSUE:

Schematic
Design

SHEET TITLE:

Typical
Concrete
Details

SCALE:

3/4" = 1'-0" U.N.O.

DATE:

Sept. 2016

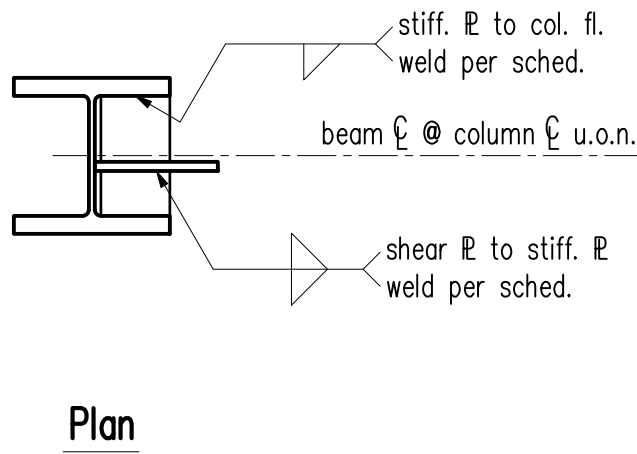
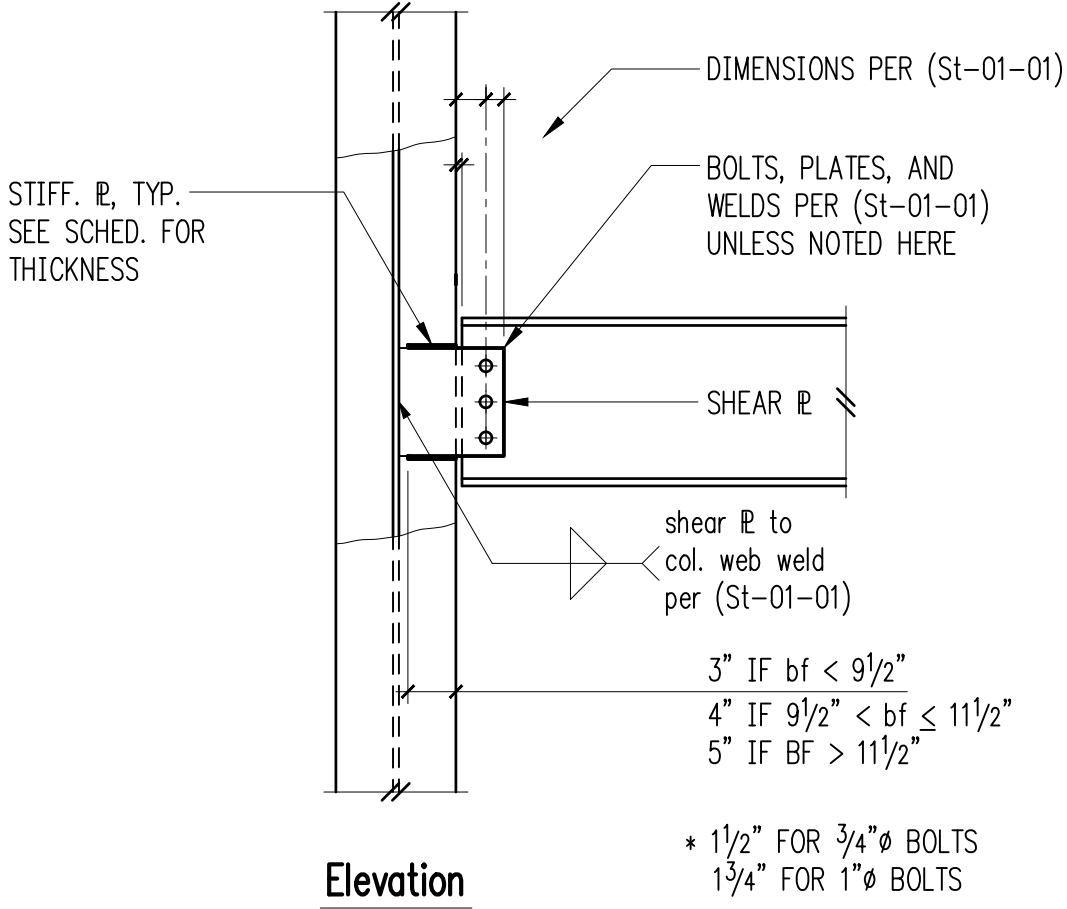
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10902-2016-03

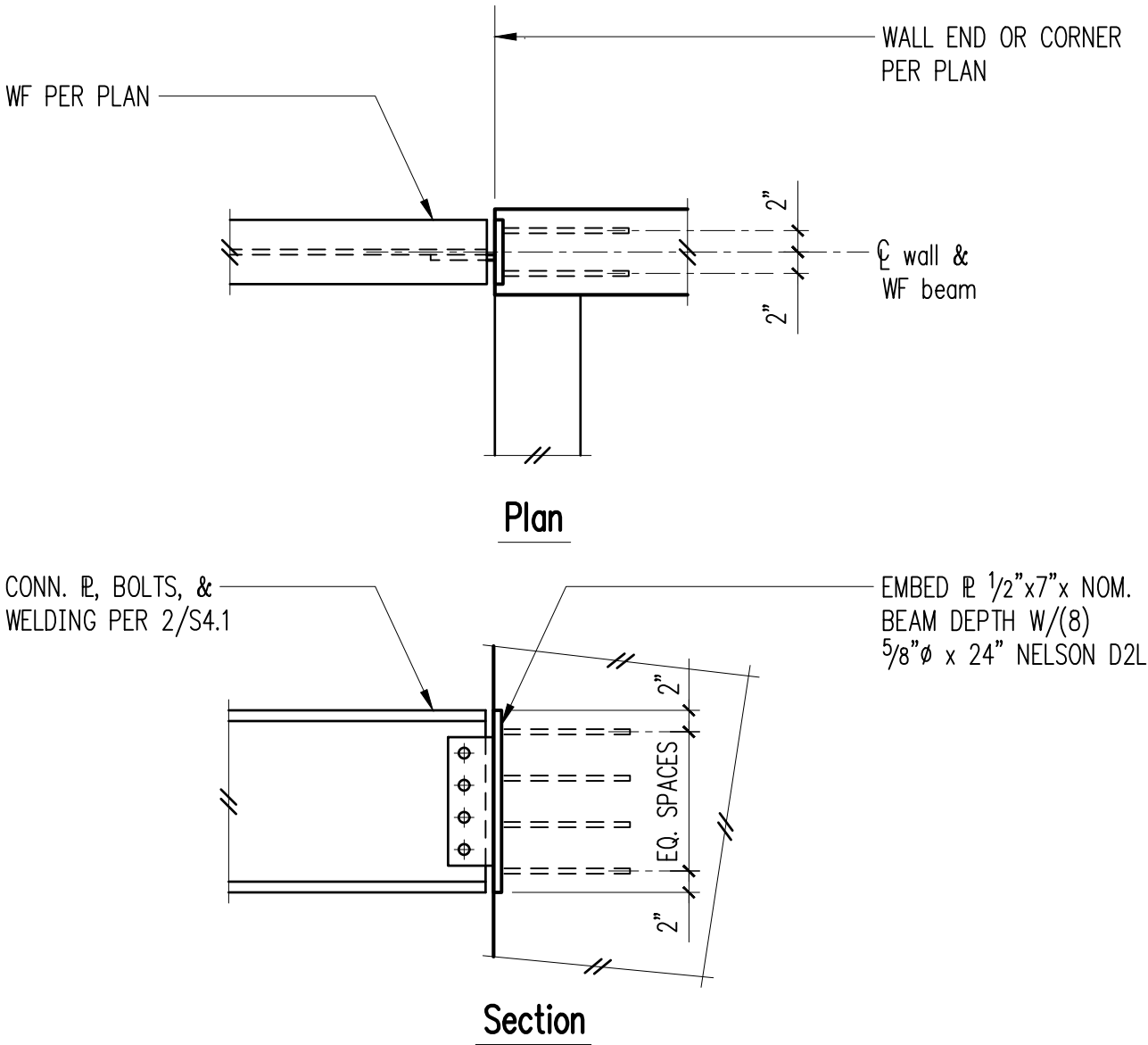
SHEET NO:

Shear & Stiffener Plate Schedule

Beam Size	Stiff. Plate Thickness	Shear Plate to Col. Web Weld	Shear Plate to Stiff. Weld	Stiff. to Col. Flange Weld
W6	1/4"	3/16"	3/16"	3/16"
W8, W10	1/4"	3/16"	3/16"	3/16"
W12, W14	1/4"	3/16"	3/16"	3/16"
W16	1/4"	3/16"	3/16"	3/16"
W18	3/8"	3/16"	3/16"	3/16"
W21	1/2"	5/16"	5/16"	3/16"
W24	5/8"	5/16"	5/16"	1/4"
W27	5/8"	1/4"	1/4"	1/4"
W30	7/8"	1/4"	1/4"	5/16"



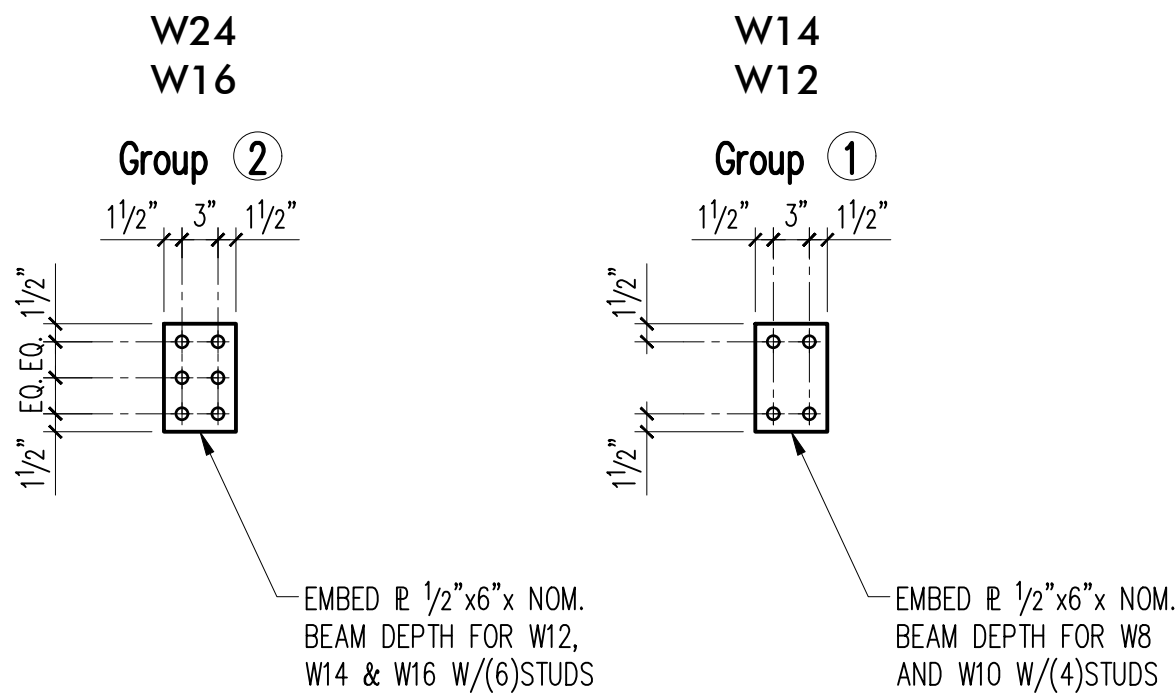
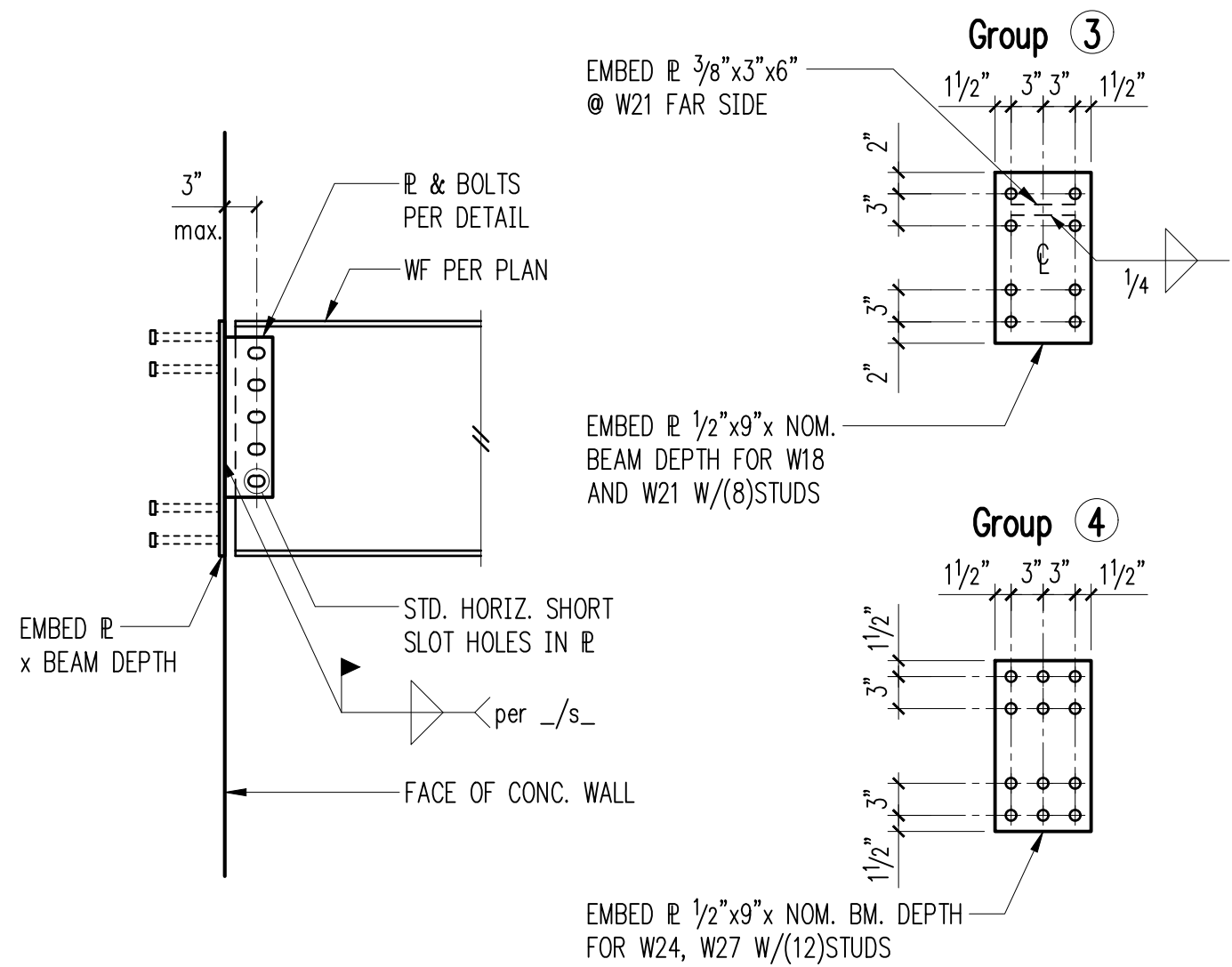
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Bar Anchor Embed Plates

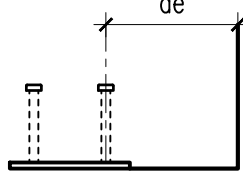
9

10



- NOTES:
- ALL STUDS TO BE 3/4"Ø x 5" U.O.N.
 - DISTANCE FROM EDGE OF CONCRETE TO CENTER OF NEAREST STUD SHALL BE A MINIMUM OF 6" HORIZONTALLY AND 7 1/2" VERTICALLY
 - PLACE EMBEDDED PLATE IN WALL SUCH THAT ATTACHED PLATE WILL BE VERTICALLY CENTERED

	3/4"Ø x 5"	5/8"Ø x 5"	1/2"Ø x 5"
Horizontal	6"	6"	6"
Vertical	7 1/2"	5"	7"



Headed Stud Embed Plates

8

Swift Center
Sedro Wooley, WA

ARCHITECT:
RMC Architects
1223 Railroad Ave
Bellingham, WA 98225
PH 360.676.7733

ISSUE:
Schematic Design

SHEET TITLE:
Typical Steel Details

SCALE:
3/4" = 1'-0" U.N.O.

DATE:
Sept. 2016

PROJECT NO:
10902-2016-03

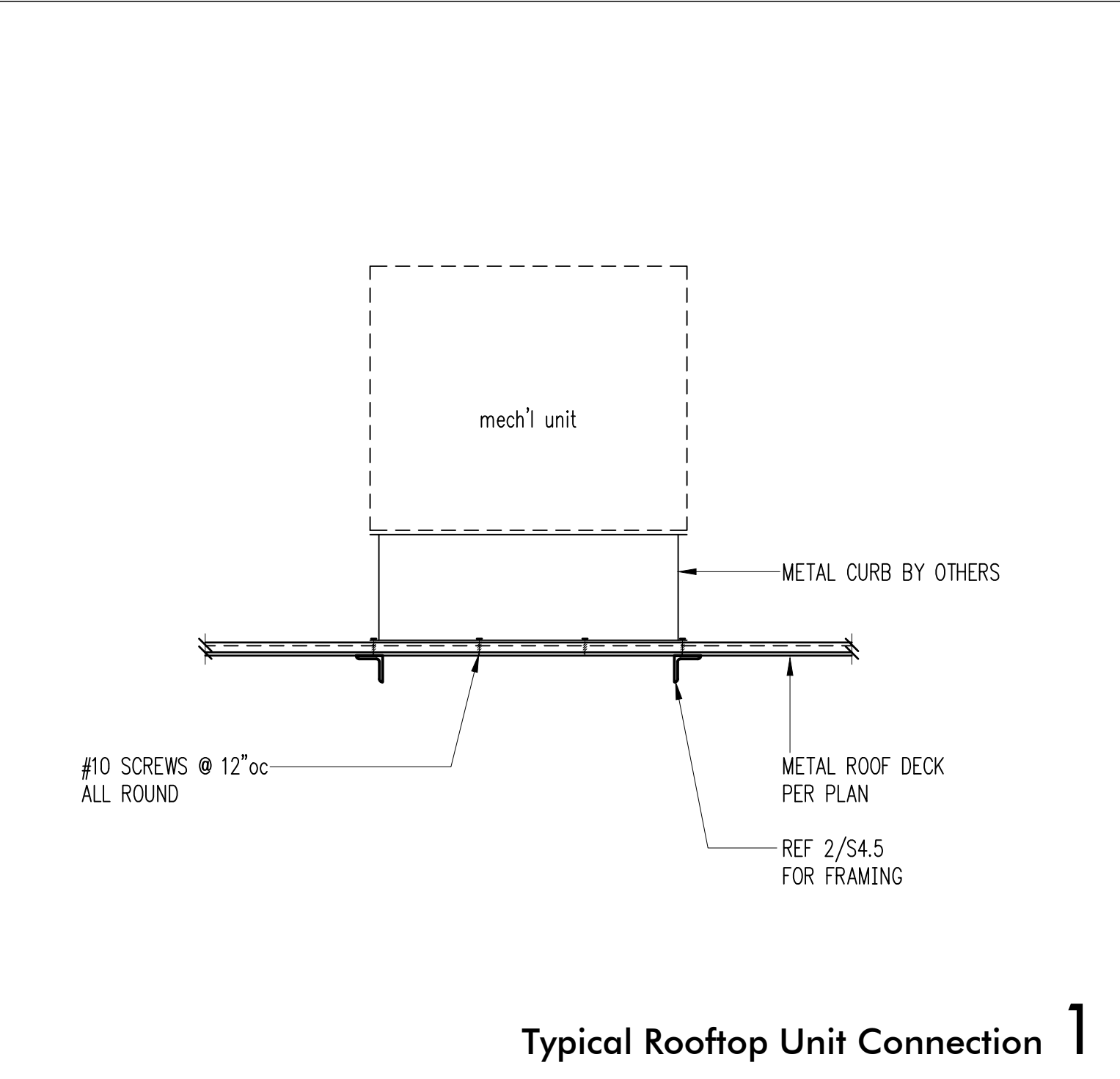
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S4.3

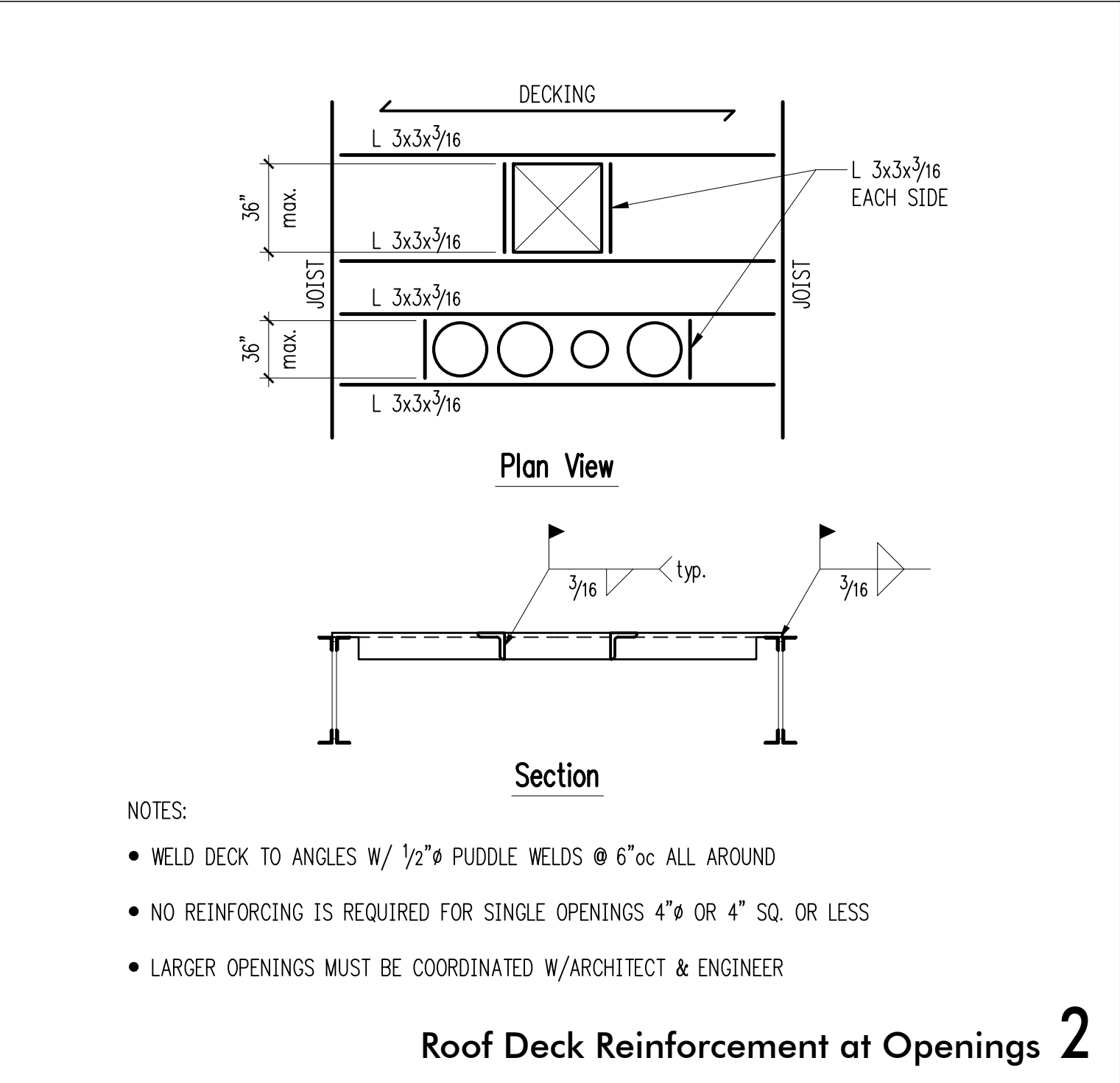
NO: OF SHEETS:

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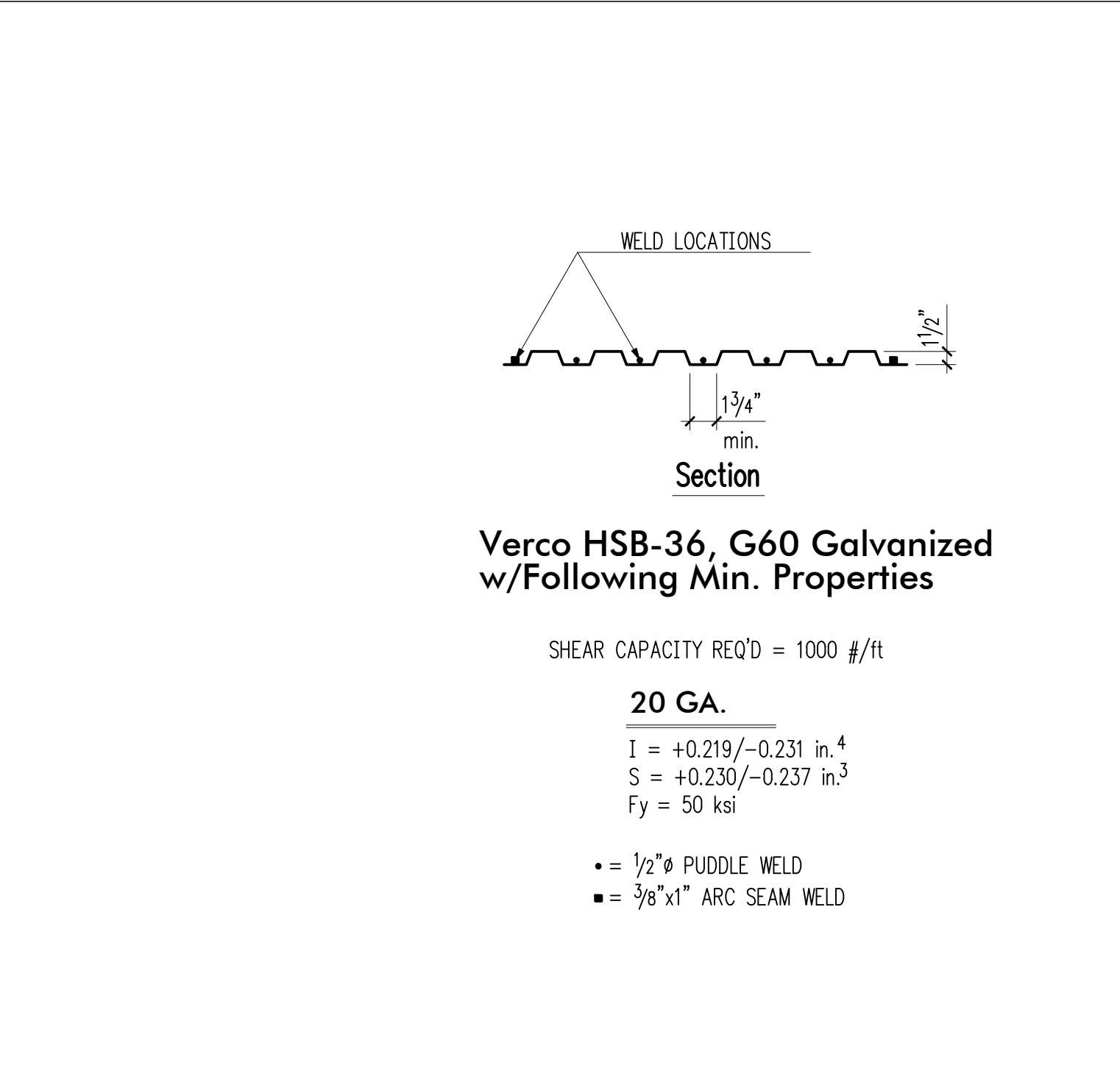
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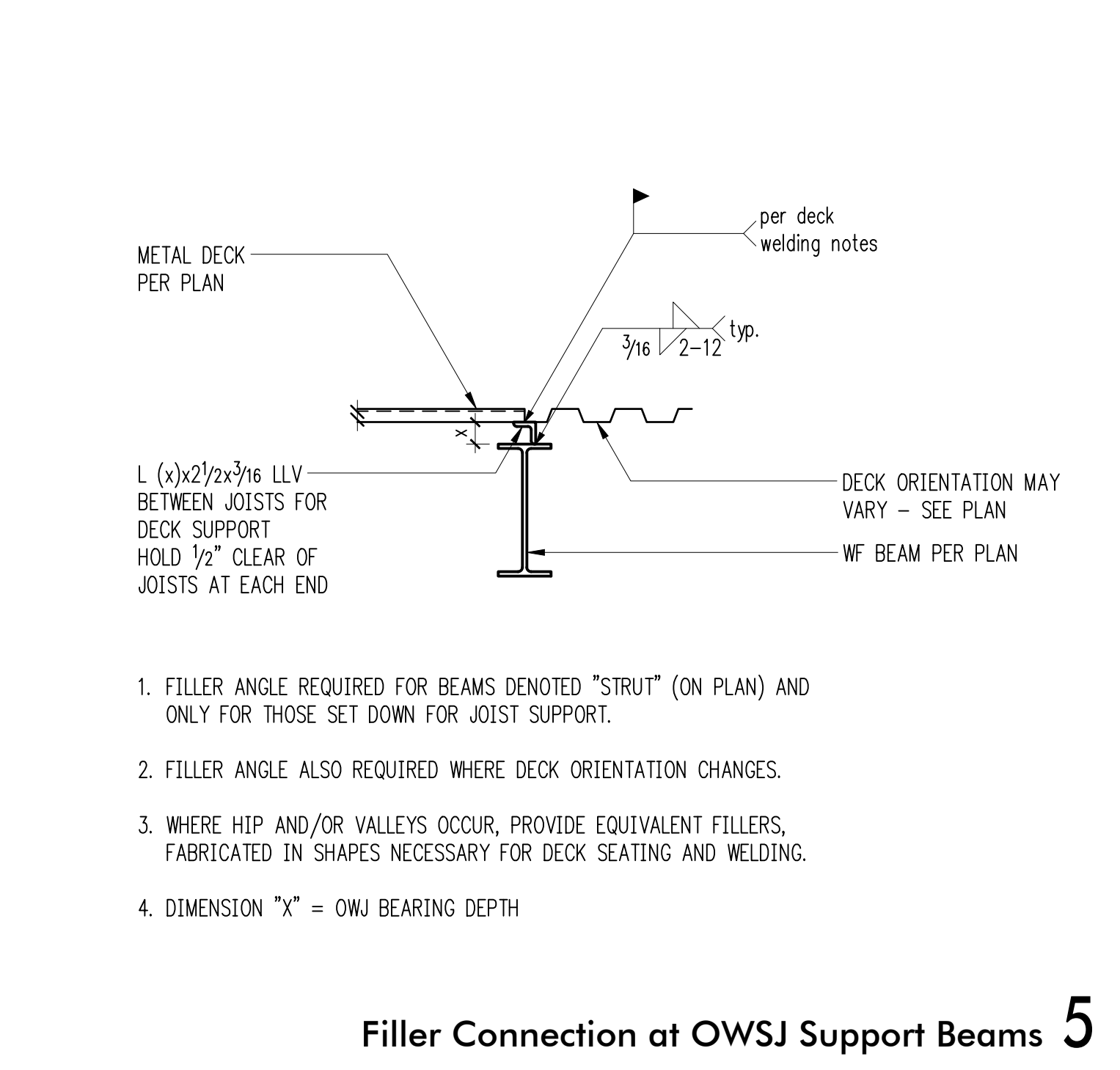
Typical Rooftop Unit Connection 1



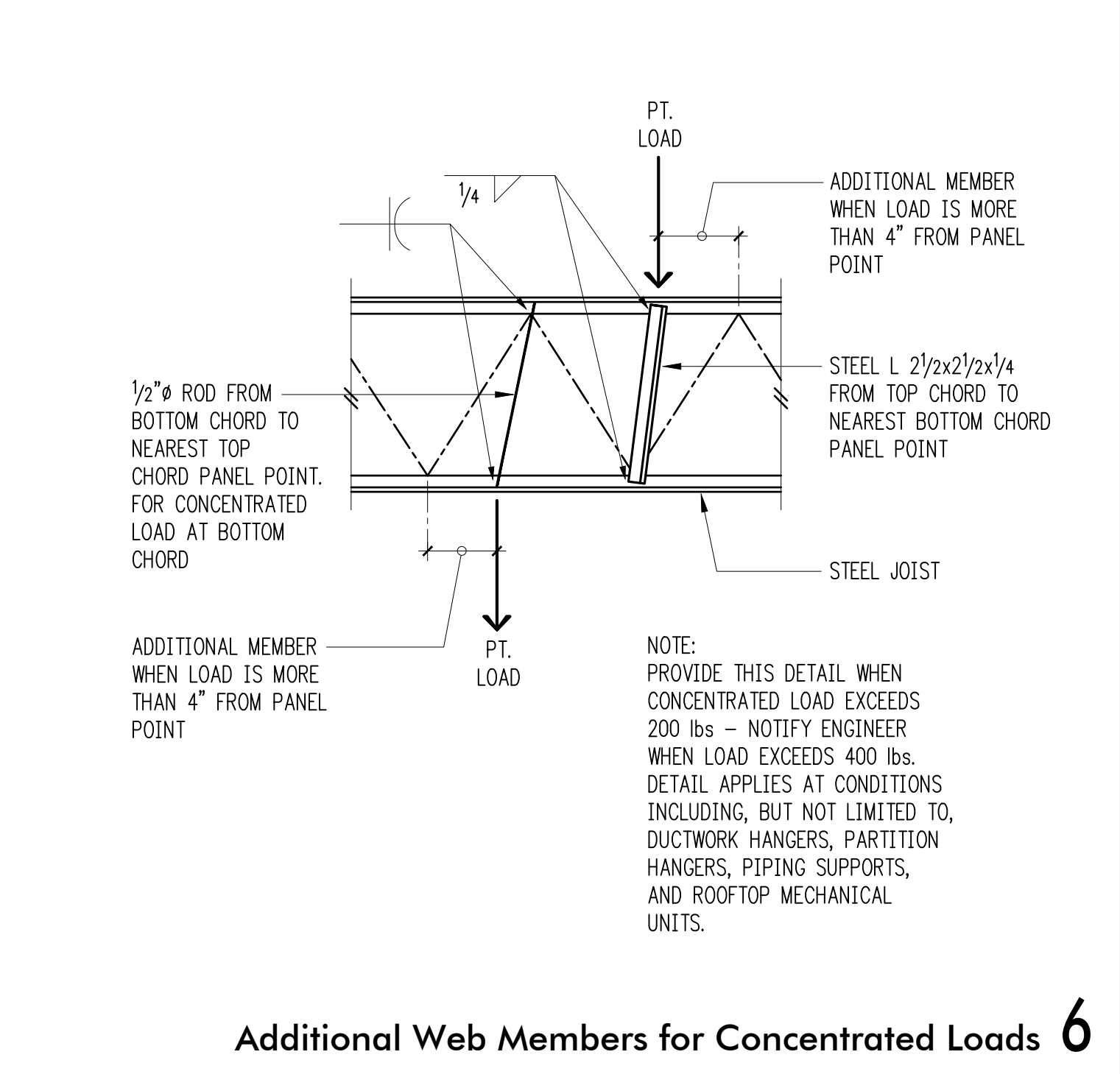
Roof Deck Reinforcement at Openings 2



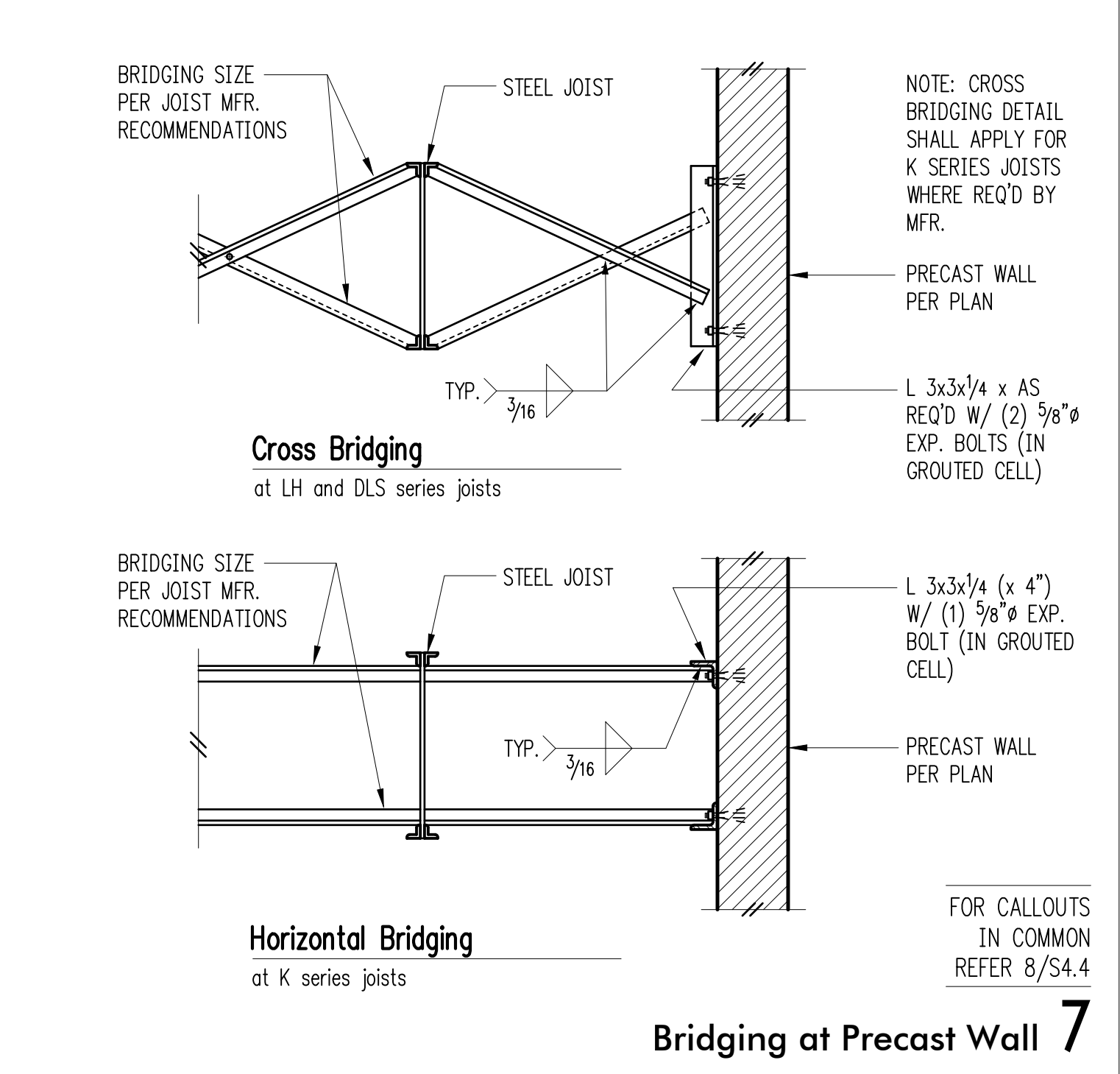
1 1/2" Roof Deck 4



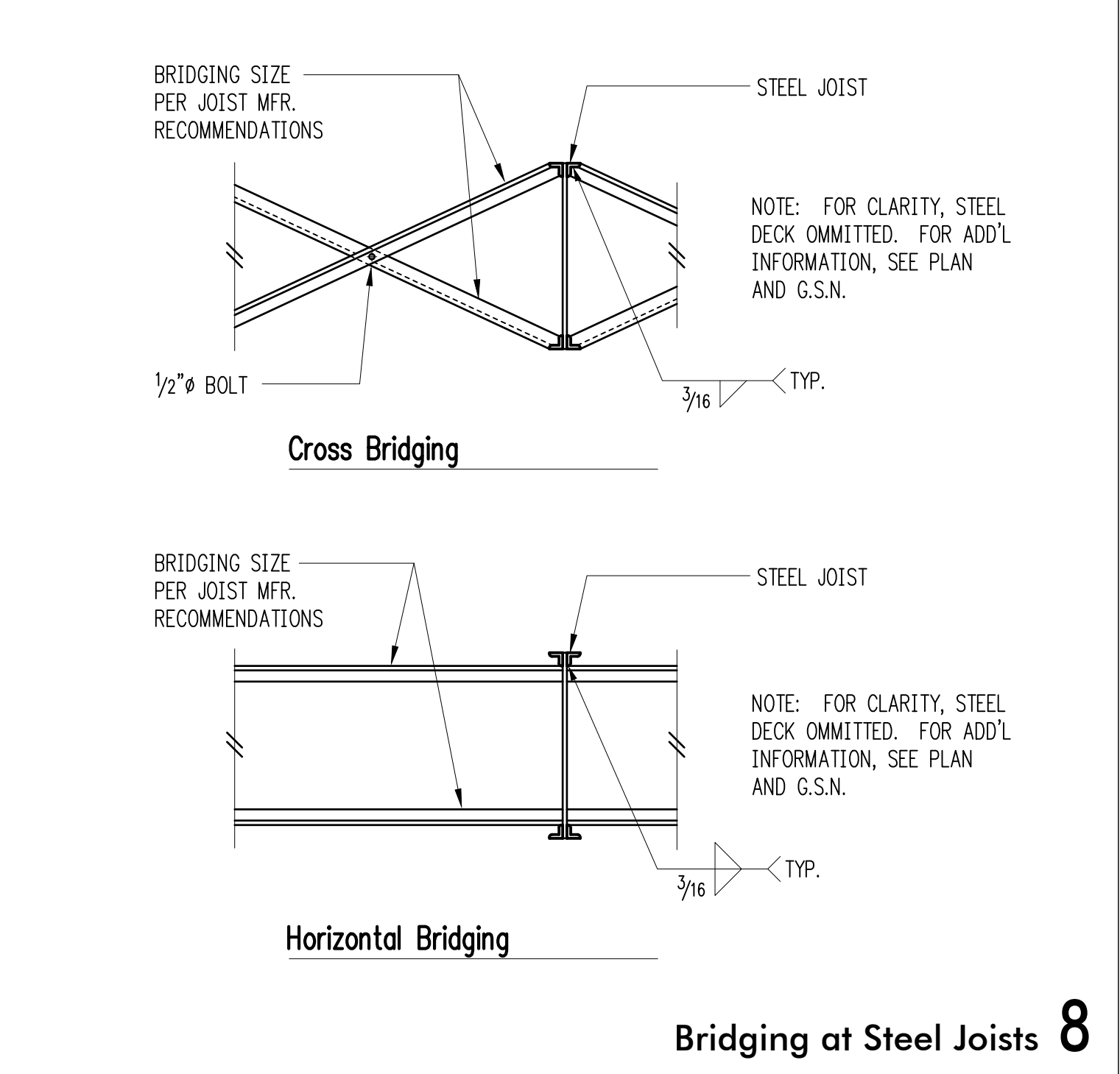
Filler Connection at OWSJ Support Beams 5



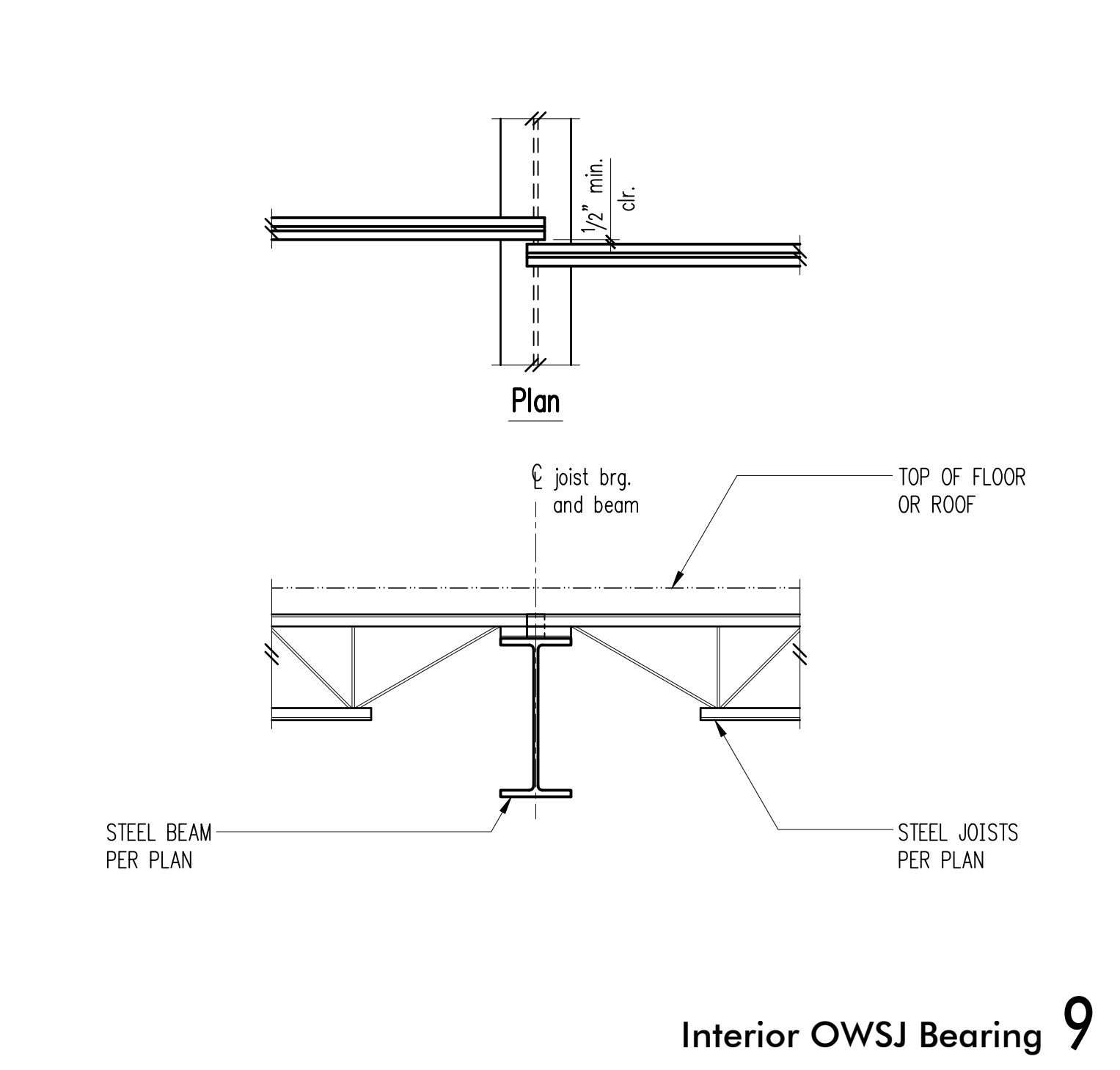
Additional Web Members for Concentrated Loads 6



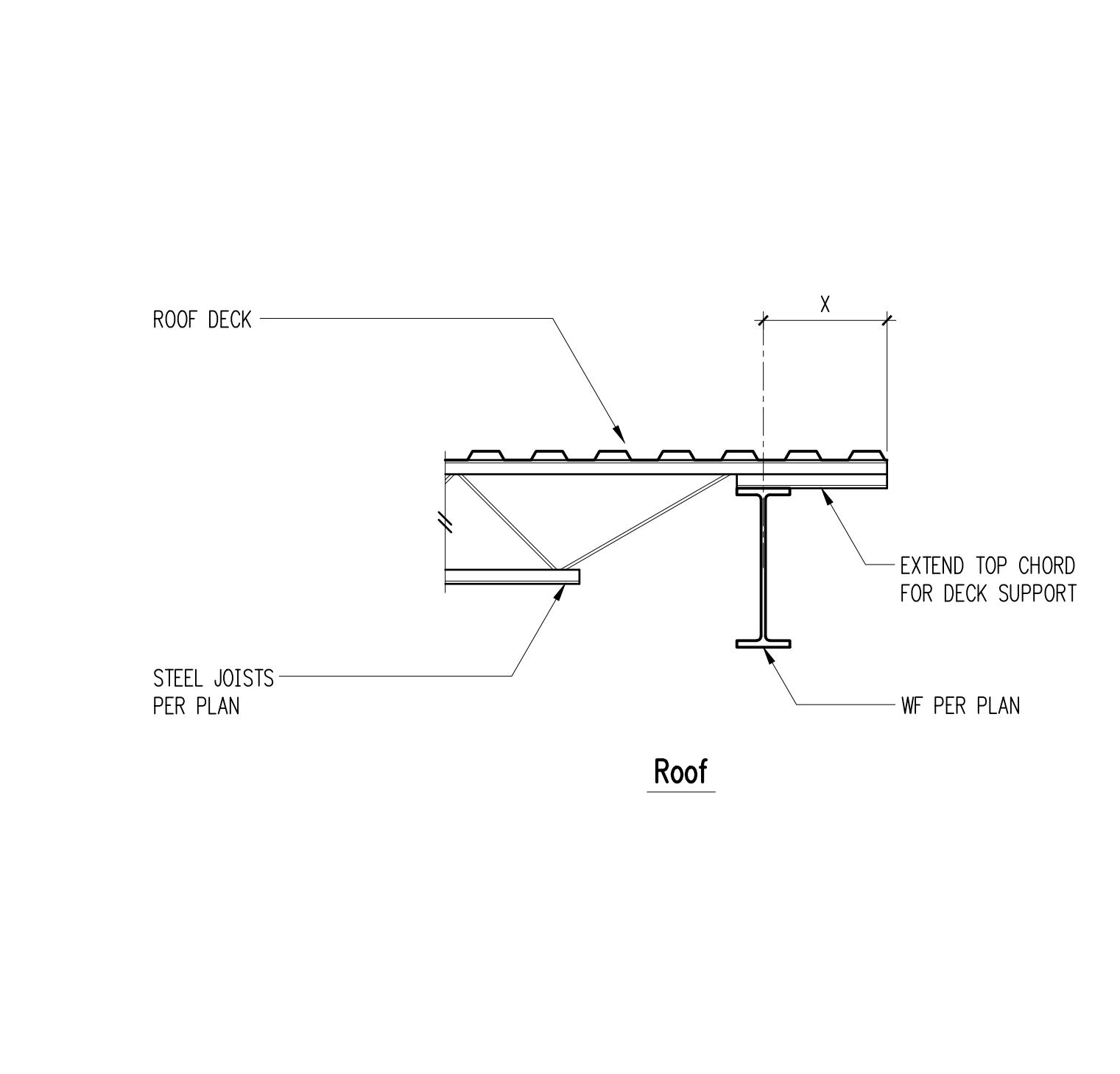
Bridging at Precast Wall 7



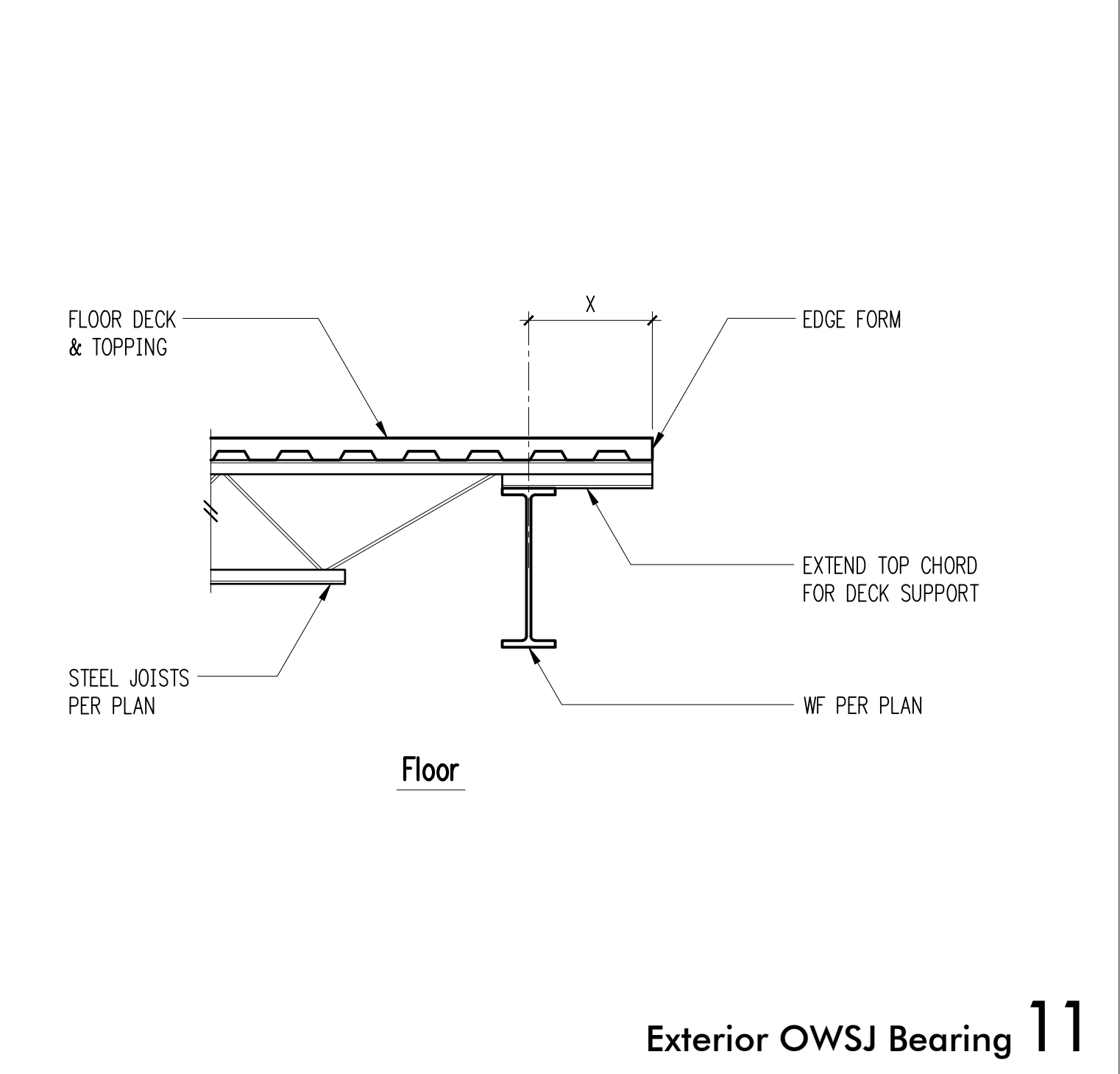
Bridging at Steel Joists 8



Interior OWSJ Bearing 9



Exterior OWSJ Bearing 11



Offset Framing for OWSJ Bearing 12

DRAWN:	SJB
DESIGN:	SWJ
CHECKED:	RGC
APPROVED:	RGC

REVISIONS:
DPD:

PROJECT TITLE:

Swift Center
Sedro Wooley, WA

ARCHITECT:
RMC Architects
1223 Railroad Ave
Bellingham, WA 98225
PH 360.676.7733

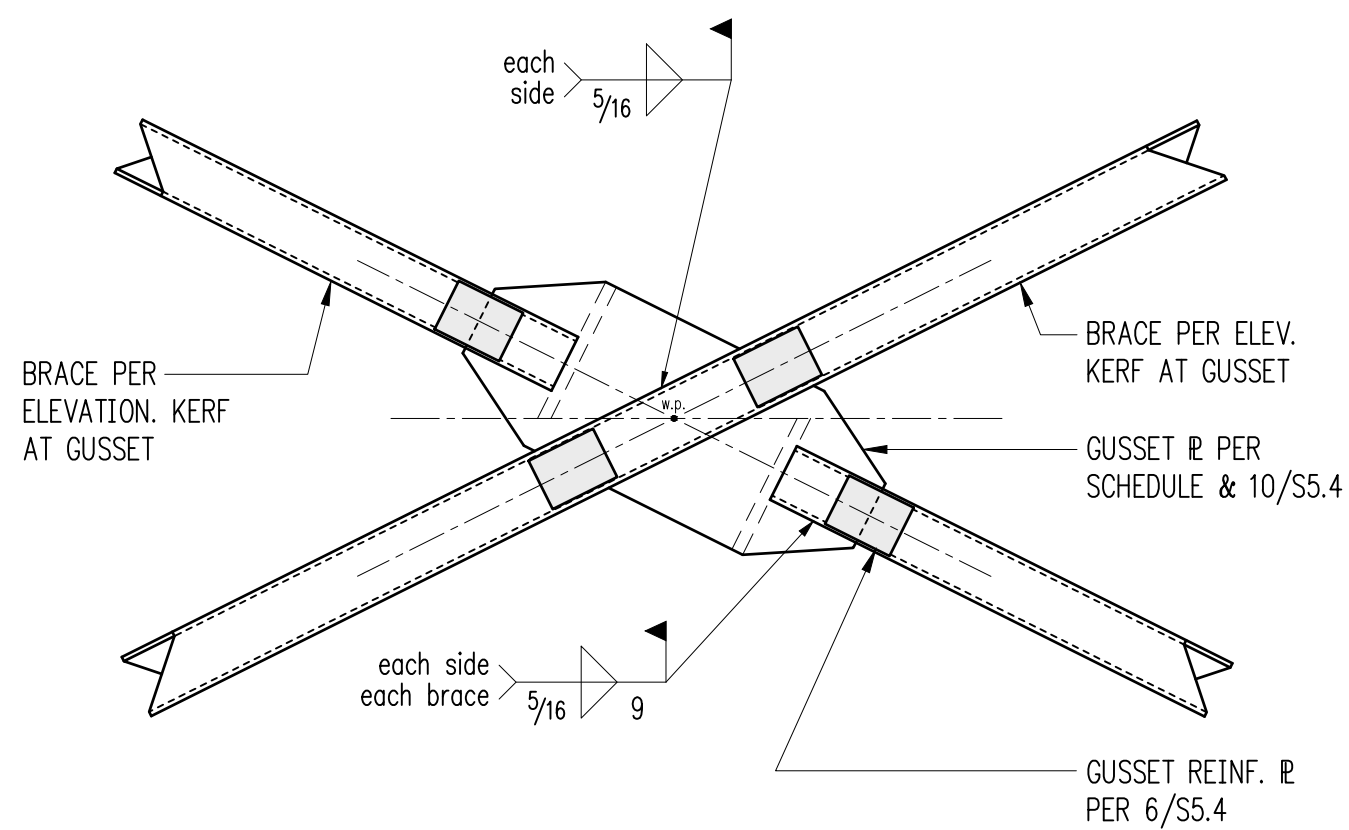
ISSUE:
Schematic Design
SHEET TITLE:
Typical Roof Framing Details
SCALE:
3/4" = 1'-0" U.N.O.
DATE:
Sept. 2016
PROJECT NO:
10902-2016-03
SHEET NO:

1

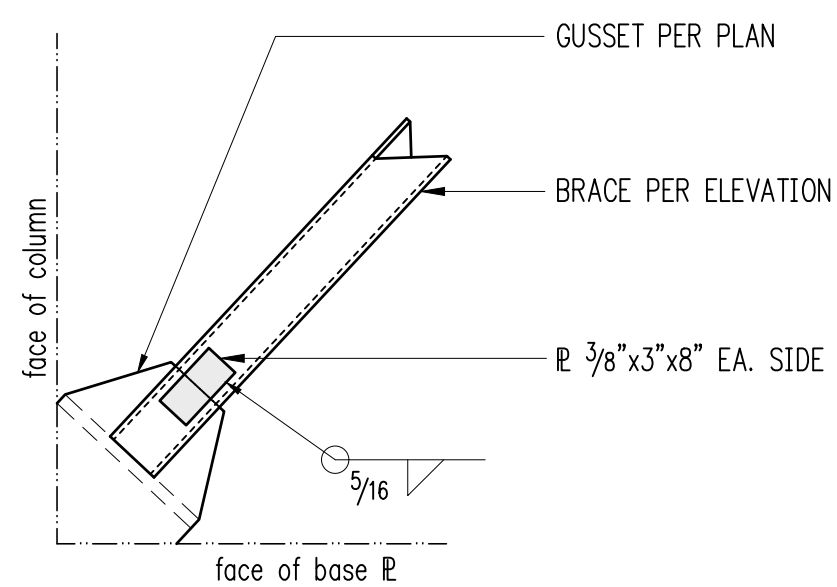
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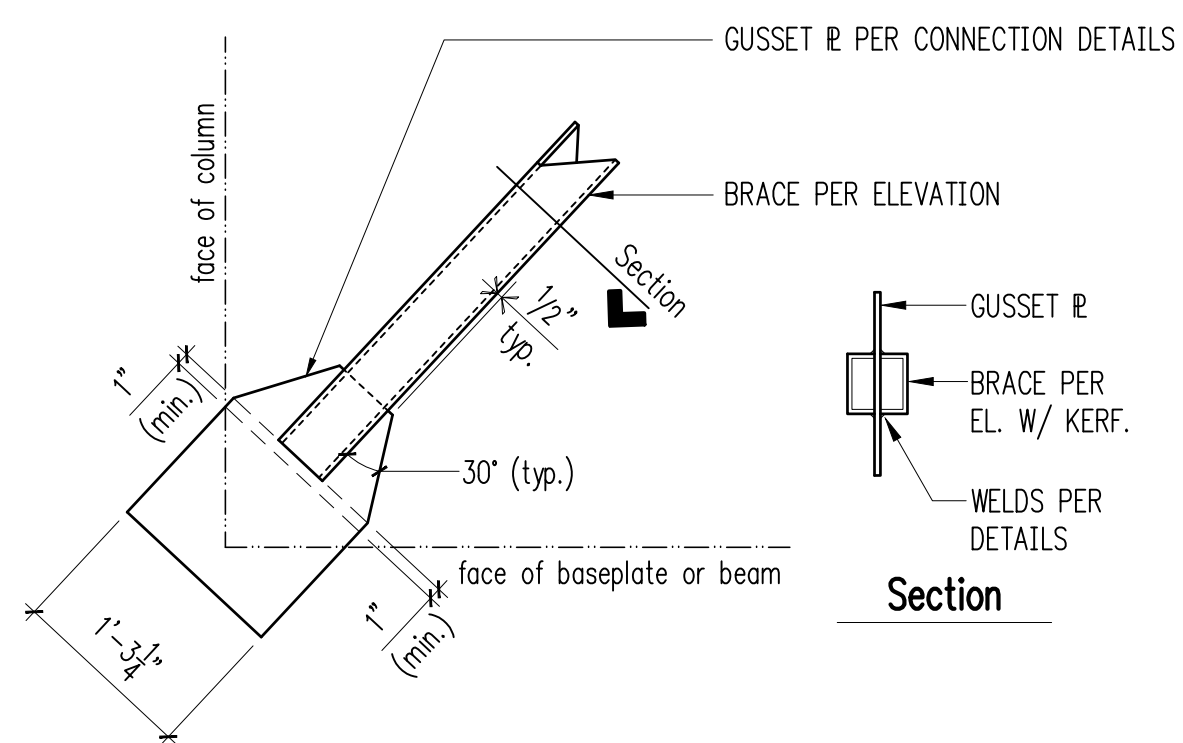
Cross Brace 5



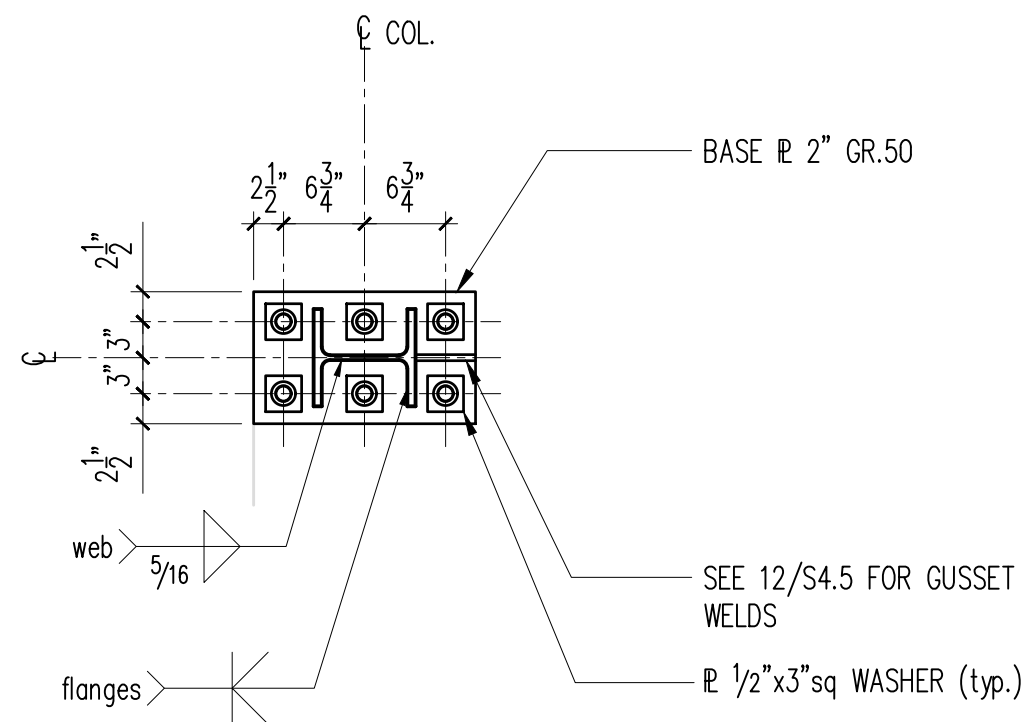
Brace Reinforcing Plates 6

Schedule		
FRAME	GUSSET	BRACE GUSSET WELD
"X"	1/2" GR50	5/16 - 9

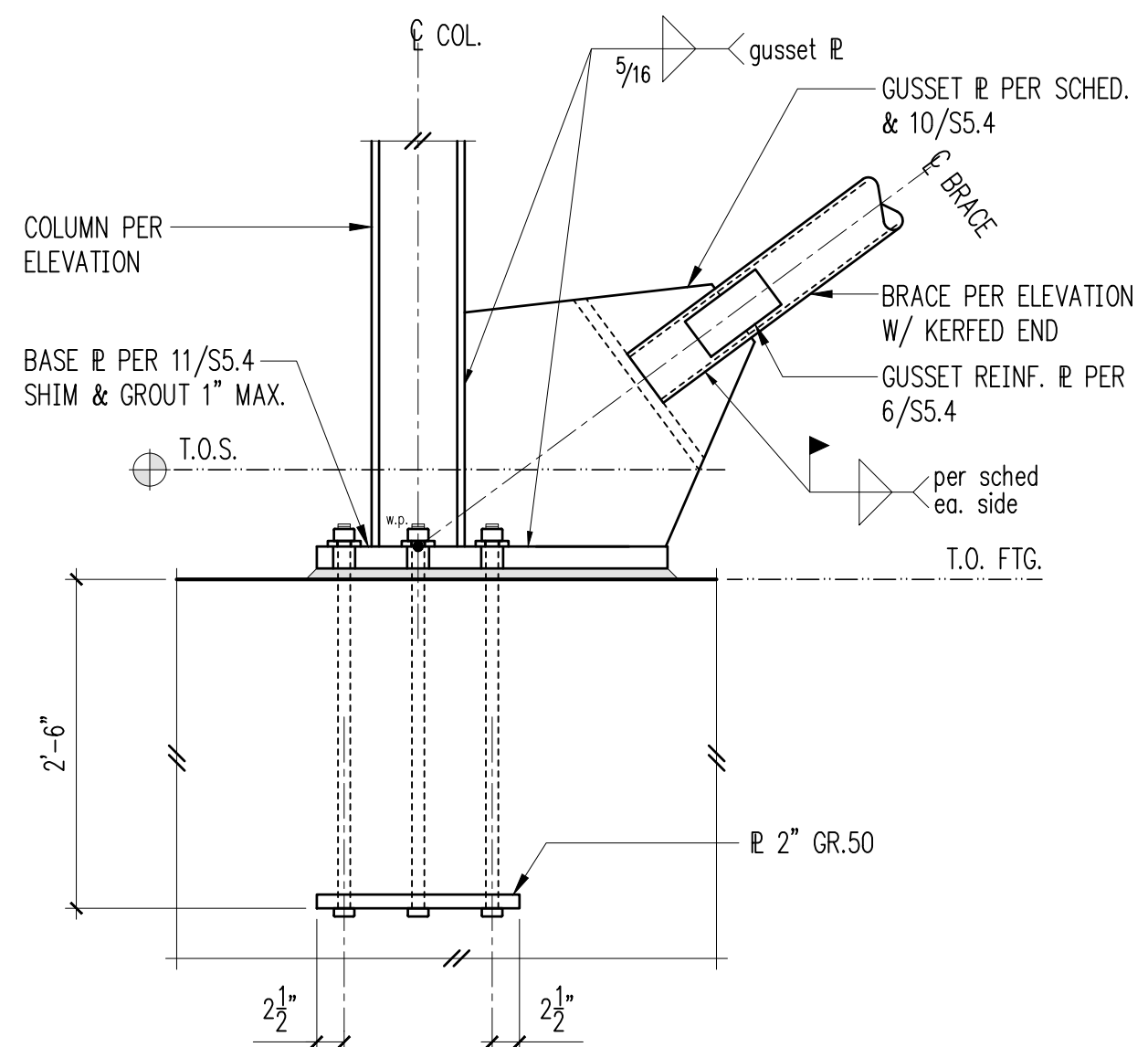
9



Typical Gusset Layout 10



Brace /Column Base Plates 11



Brace Frame Bottom Connection 12

ARCHITECT:
PMC Architects
223 Railroad Ave
Bellingham, WA 98225
PH 360.676.7733

SUE: Schematic Design

Steel Details

SCALE: $\frac{3}{4}" = 1'-0"$ U.N.O.

DATE: Sept. 2016

PROJECT NO: 10902-2016-03

S4.5

OF SHEETS:

DRAWN:	SJB
DESIGN:	SWJ
CHECKED:	RGC
APPROVED:	RGC

REVISIONS:
DPD:

PROJECT TITLE:

Swift Center
Sedro Wooley, WA

ARCHITECT:

RMC Architects
1223 Railroad Ave
Bellingham, WA 98225
PH 360.676.7733

ISSUE:

Schematic Design

SHEET TITLE:

Light Gauge Steel Details

SCALE:

3/4" = 1'-0" U.N.O.

DATE:

Sept. 2016

PROJECT NO:

10902-2016-03

SHEET NO:

S5.2

NO: OF SHEETS:

1

2

3

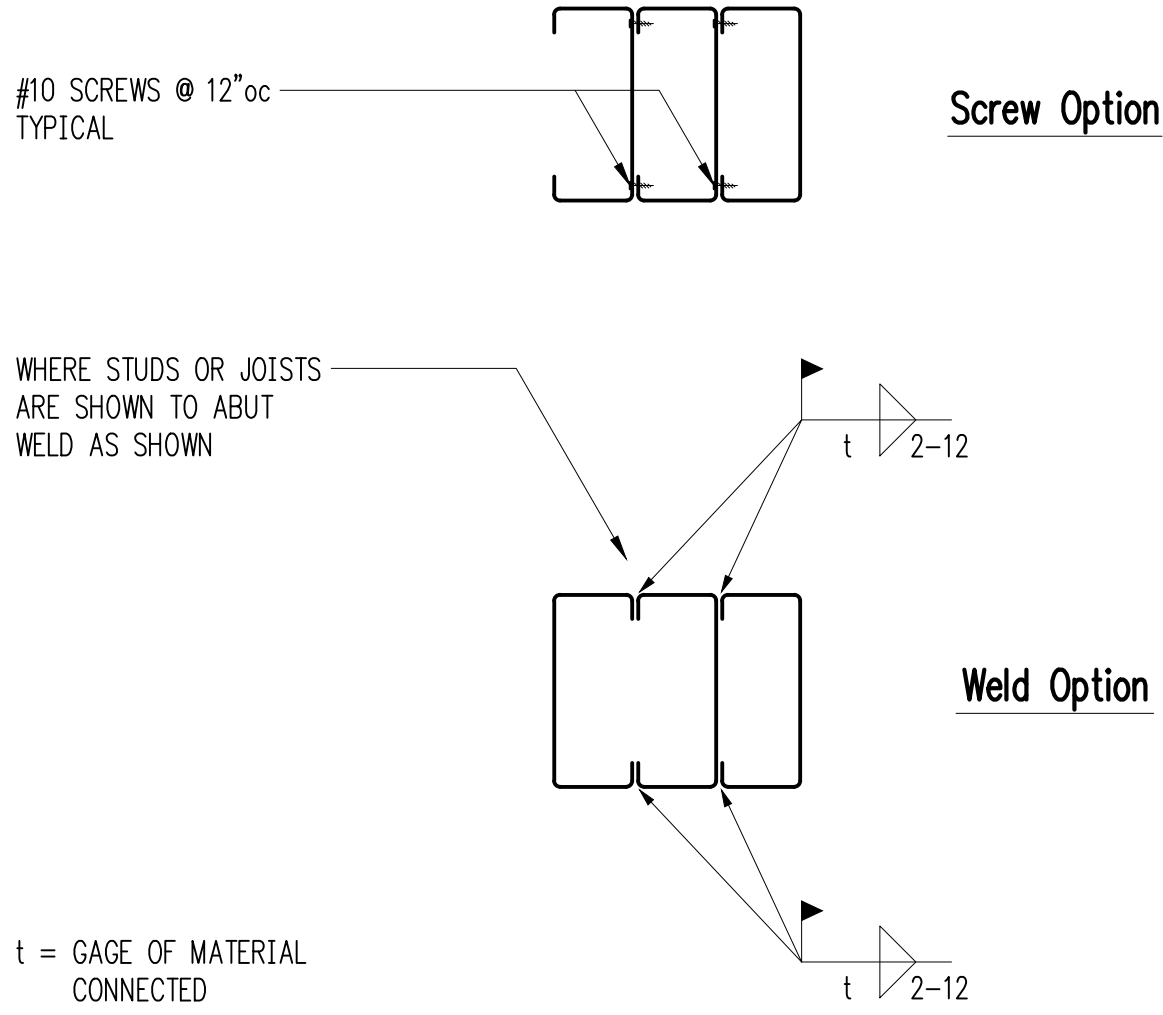
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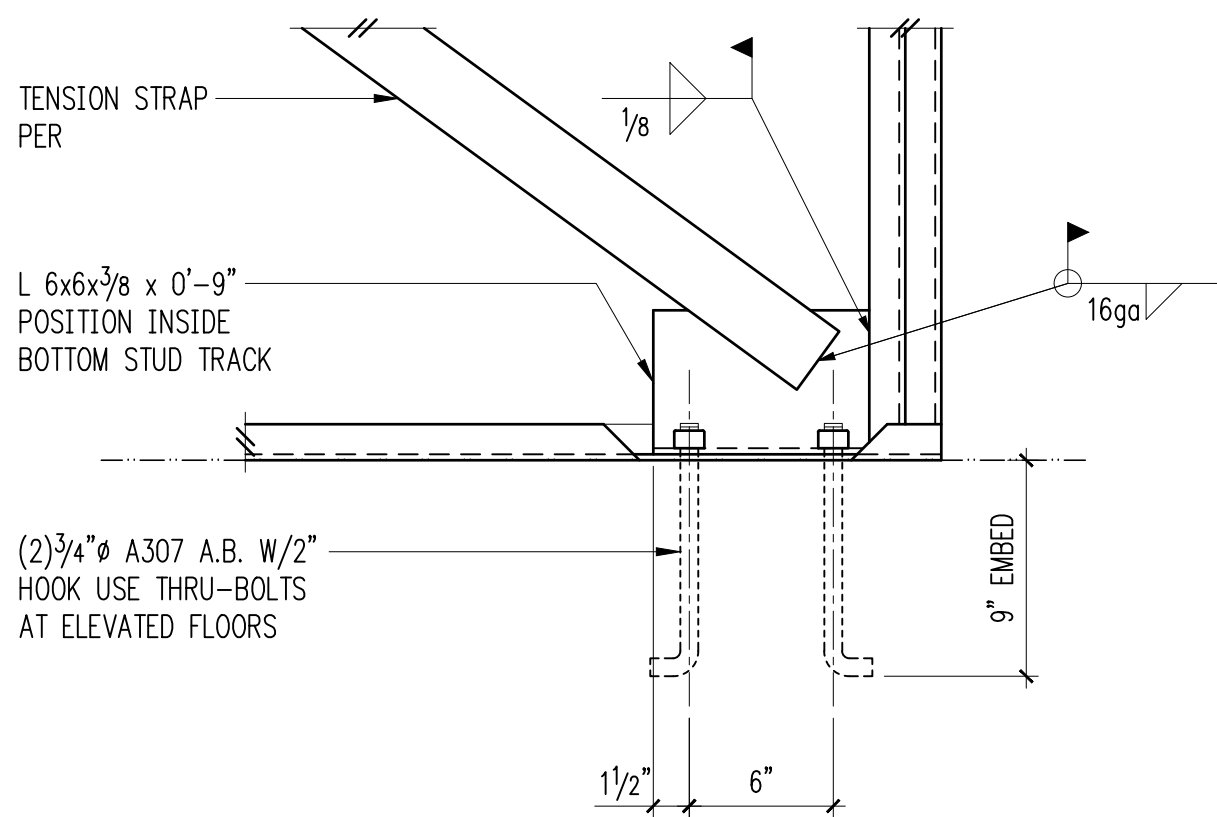
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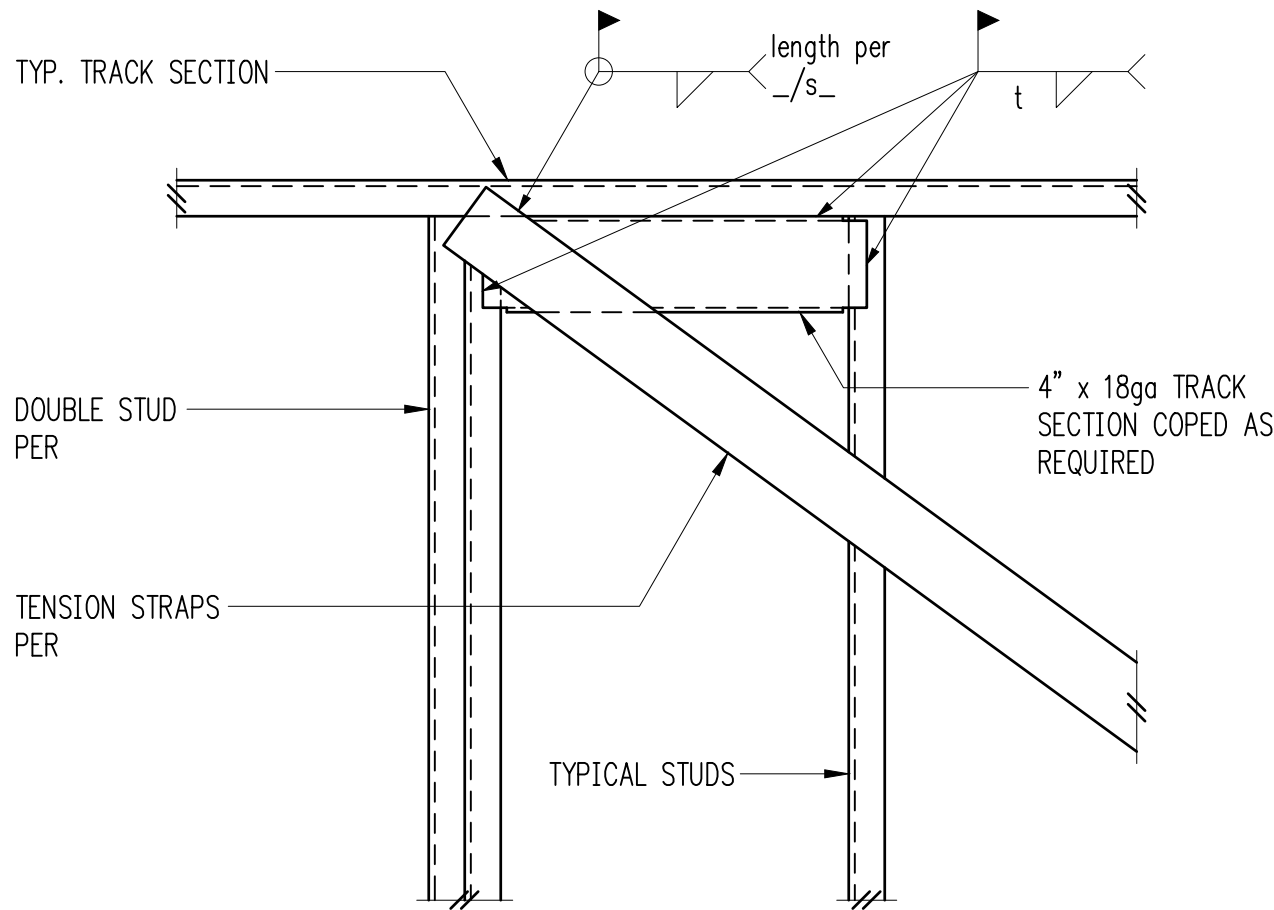
Typical Built-up Stud Column (Screw & Weld Options)

9



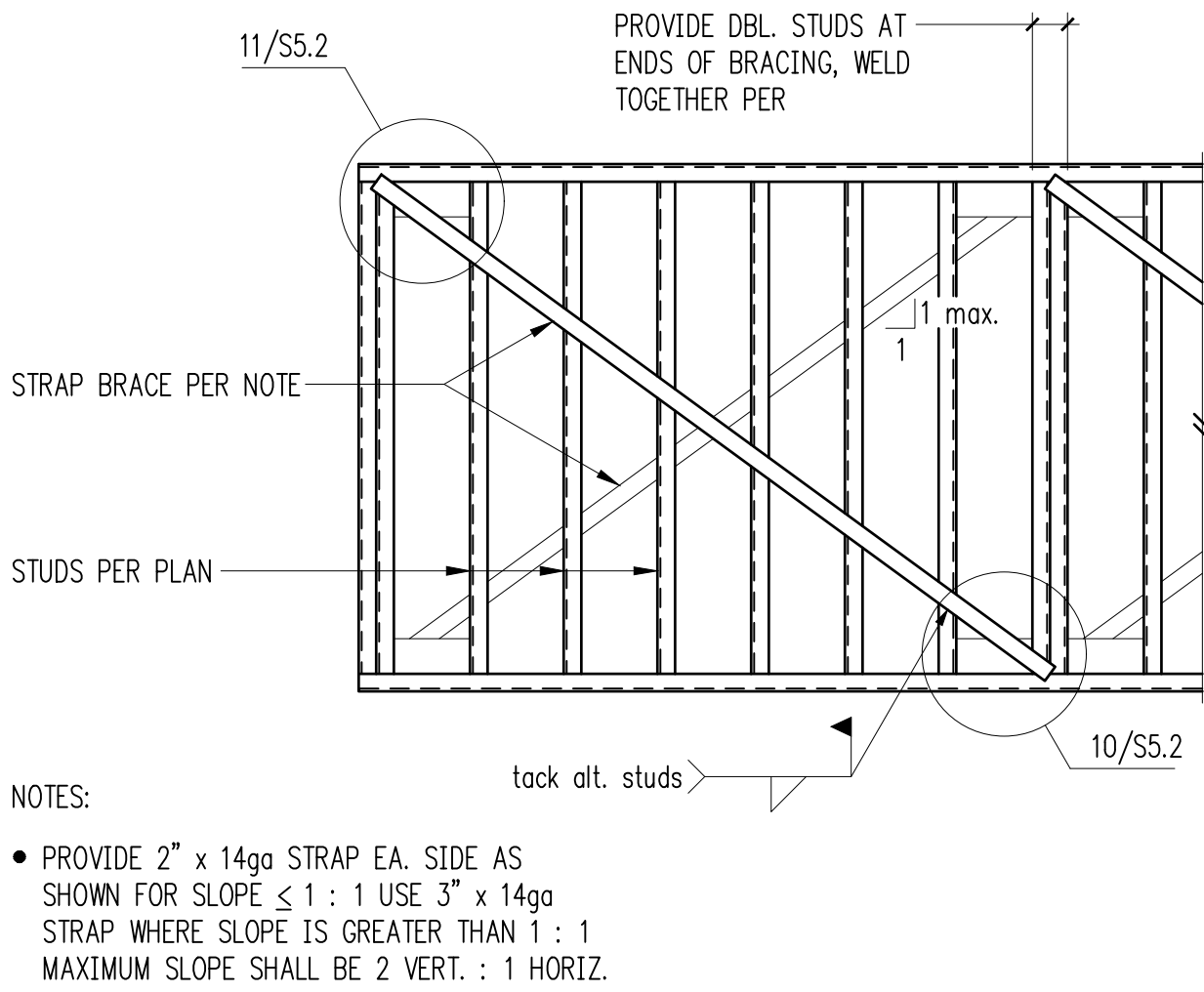
Strap Brace Base Connection

10



Strap Brace Top Connection

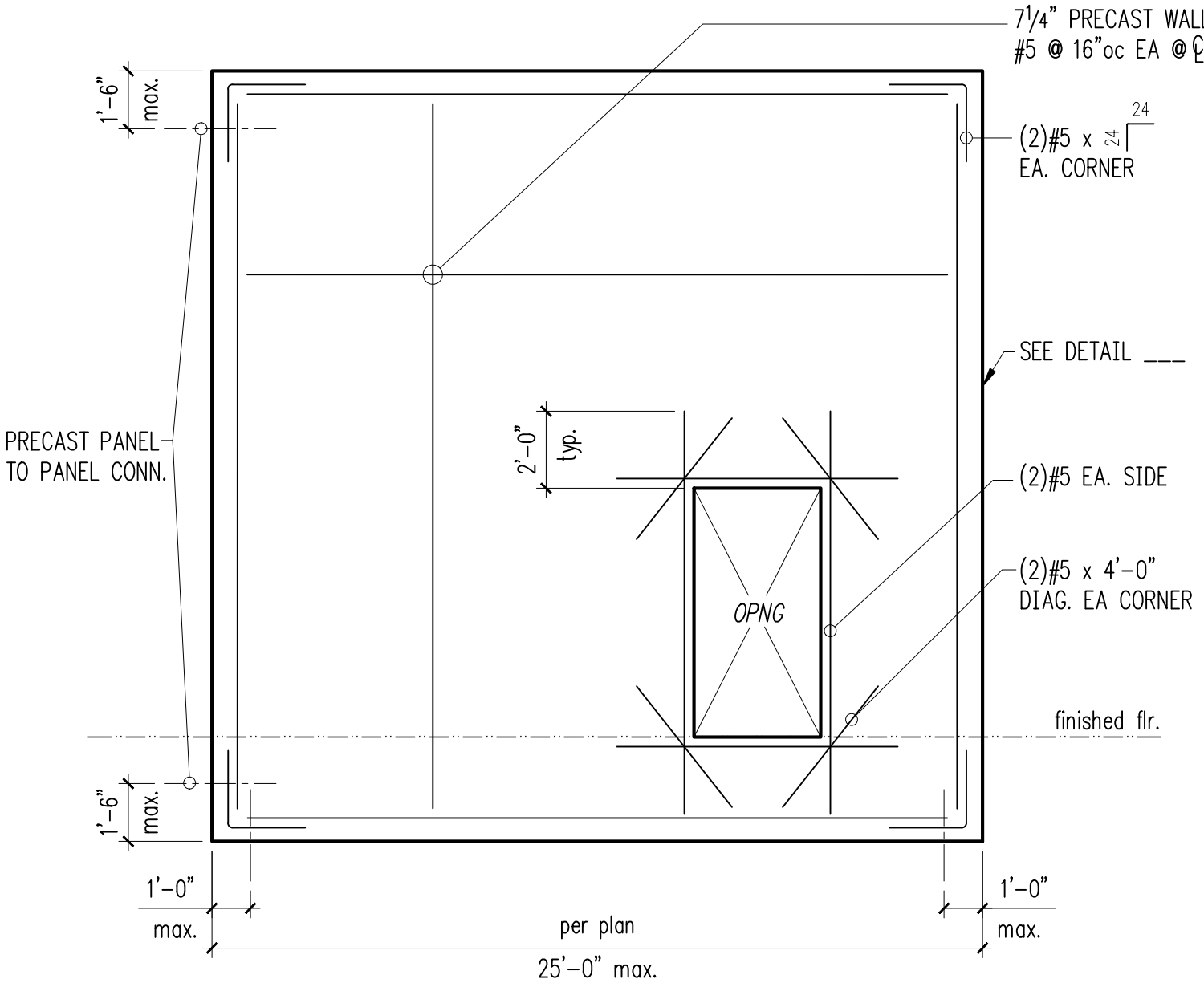
11



Strap Bracing

12

1	2	3	4
5	6	7	8
9	10	11	12



Typical Precast Wall Elevation

DRAWN:	SJB
DESIGN:	SWJ
CHECKED:	RGC
APPROVED:	RGC

REVISIONS:
DPD:

PROJECT TITLE:

Swift Center
Sedro Wooley, WA

ARCHITECT:

RMC Architects
1223 Railroad Ave
Bellingham, WA 98225
PH 360.676.7733

ISSUE:

Schematic Design

SHEET TITLE:

Precast wall Elevation

SCALE:

1/4" = 1'-0" U.N.O.

DATE:

Sept. 2016

PROJECT NO:

10902-2016-03

SHEET NO:

SWIFT CENTER

PREPARED FOR:

PORT OF SKAGIT

LOCATED IN SEC. 7 & 8, T. 35 N., R. 5 E., W.M., SKAGIT COUNTY, SEDRO-WOOLLEY, WASHINGTON

PROJECT CONTACTS

CLIENT PORT OF SKAGIT 15400 AIRPORT DRIVE BURLINGTON, WA 98233 P: 360-757-0011 HEATHER ROGERSON heather@portofskagit.com	CIVIL ENGINEER MAUL FOSTER & ALONGI INC. 1329 NORTH STATE STREET SUITE 301 BELLINGHAM, WA 98225 P: 360-594-6262 KRISTI BOON, PE kboon@maulfoster.com
	AGENCY CITY OF SEDRO-WOOLLEY 325 METCALF STREET SEDRO-WOOLLEY, WA 98284 P: 360-855-0771 MARK FREIBERGER, PE mfreiberger@ci.sedro-woolley.wa.us

PROJECT SUMMARY

SITE ADDRESS:
24909 HUB DRIVE
SEDRO-WOOLLEY, WA 98284

NEW IMPROVEMENTS:
DEVELOP MANUFACTURING BUILDINGS AND ASSOCIATED FACILITIES. DEVELOPMENT WILL INCLUDE NEW STRUCTURES, PAVED PARKING AREAS, PAVED ROADWAYS, STORMWATER TREATMENT AND CONVEYANCE, DOMESTIC WATER, AND SANITARY SEWER UTILITIES AND APPURTENANCES.



VICINITY MAP

NOT TO SCALE

GENERAL NOTES

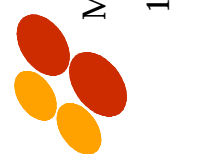
- CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS AND DEPTHS PRIOR TO CONSTRUCTION. A MINIMUM OF TWO FULL BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL CALL 811 (UTILITY NOTIFICATION CENTER) FOR LOCATION MARK-UP OF EXISTING UTILITIES.
- ALL CONSTRUCTION, MATERIALS, AND WORKMANSHIP SHALL CONFORM TO THE LATEST STANDARDS AND PRACTICES OF THE CITY OF SEDRO-WOOLLEY AND THE LATEST EDITION OF THE "STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION" PREPARED BY WSDOT/APWA.
- IN CASE OF A CONFLICT BETWEEN THE REGULATORY STANDARDS OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT WILL PREVAIL.
- ANY CHANGES TO THE DESIGN AND/OR CONSTRUCTION SHALL BE APPROVED BY THE OWNER OR ENGINEER.
- APPROVAL OF THESE PLANS DOES NOT CONSTITUTE AN APPROVAL OF ANY OTHER CONSTRUCTION NOT SPECIFICALLY SHOWN ON THE PLANS. PLANS FOR STRUCTURES SUCH AS BRIDGES, BUILDINGS, TANKS, VAULTS, ROCKERIES, AND RETAINING WALLS MAY REQUIRE A SEPARATE REVIEW AND APPROVAL BY THE BUILDING DEPARTMENT PRIOR TO CONSTRUCTION.
- A COPY OF THESE APPROVED PLANS SHALL BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL CONSTRUCTION EASEMENTS AND PERMITS NECESSARY TO PERFORM THE WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION STAKING.
- PUBLIC AND PRIVATE DRAINAGE WAYS SHALL BE PROTECTED FROM POLLUTION. NO MATERIAL IS TO BE DISCHARGED TO OR DEPOSITED IN STORMWATER SYSTEMS THAT MAY RESULT IN VIOLATION OF STATE OR FEDERAL WATER QUALITY STANDARDS.
- ALL CONSTRUCTION WITHIN THE PUBLIC RIGHT-OF-WAY SHALL HAVE AN APPROVED PUBLIC RIGHT-OF-WAY WORK PERMIT PRIOR TO ANY CONSTRUCTION ACTIVITY WITHIN THE RIGHT-OF-WAY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH, AND SAFETY OF THE PUBLIC, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACTOR. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST ADOPTED EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION. TWO-WAY TRAFFIC MUST BE MAINTAINED AT ALL TIMES ON THE ADJACENT PUBLIC STREETS.
- ANY PUBLIC OR PRIVATE CURB, GUTTER, SIDEWALK, OR ASPHALT DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO CITY OF SEDRO-WOLLEY STANDARDS AND PRACTICES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF ADJACENT UTILITIES WHICH MAY INCLUDE, BUT ARE NOT LIMITED TO, WATER, SANITARY SEWER, STORMWATER, POWER, TELEPHONE, CABLE TV, GAS, IRRIGATION, AND STREET LIGHTING. THE CONTRACTOR SHALL NOTIFY RESIDENTS AND BUSINESSES 48 HOURS IN ADVANCE OF ANY WORK AFFECTING ACCESS OR SERVICE AND SHALL MINIMIZE INTERRUPTIONS TO DRIVEWAYS FOR RESIDENTS AND BUSINESSES ADJACENT TO THE PROJECT.
- ALL LAWN AND VEGETATED AREAS DISTURBED WILL BE RESTORED TO ORIGINAL CONDITION. ANY DISTURBANCE OR DAMAGE TO OTHER PROPERTY ON ADJACENT PARCELS OR IN THE PUBLIC RIGHT-OF-WAY SHALL ALSO BE REPAIRED OR RESTORED TO ORIGINAL CONDITION.

SHEET INDEX

C000	COVER SHEET
C001	CONSTRUCTION NOTES
C002	MASTER LEGEND
C100	EXISTING CONDITIONS PLAN
C200	OVERALL SOUTHERN INFLUENCE SITE PLAN
C300	GRADING PLAN
C400	STREET AND STORM DRAINAGE PLAN
C500	WATER AND SANITARY SEWER PLAN
C600	STREET AND STORM DETAILS
L100	ZONE A - SOUTHERN INFLUENCE AREA PLANTING PLAN
L200	PHASE 1 ENLARGED PLANTING PLAN
L300	PLANTING DETAILS

RMC ARCHITECTS

MAUL FOSTER & ALONGI
1329 NORTH STATE STREET, SUITE 301
BELLINGHAM, WA 98225
PHONE: 360.594.6262
www.maulfoster.com



Port of Skagit



Sedro-Woolley Innovation For Tomorrow
SWIFT CENTER

Job No: 0715-08 Date: 05 OCT 2016
File No: SWIFT CENTER
Drawn By: KMB
Checked By: SJF
Issued for: 30% DRAWINGS

COVER

C000

PRELIMINARY

CONSTRUCTION NOTES

EROSION AND SEDIMENT CONTROL

- ALL GRADING AND EROSION CONTROL MATERIALS, WORKMANSHIP AND METHODS OF CONSTRUCTION SHALL CONFORM TO THE CURRENT EDITION OF THE "EROSION AND SEDIMENT CONTROL MANUAL" PREPARED BY THE WASHINGTON DEPARTMENT OF ECOLOGY. EROSION CONTROL SHALL BE PER THE SPECIFICATIONS AND DETAILS CONTAINED THEREIN AND SHALL TAKE PRECEDENCE OVER OTHER STANDARDS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL MAINTAIN AN ON-SITE WRITTEN DAILY LOG OF EROSION CONTROL AND MAINTENANCE.
- DURING THE PERIOD FROM OCTOBER 1ST TO APRIL 30TH, NO SOIL SHALL BE EXPOSED FOR MORE THAN TWO (2) DAYS. FROM MAY 1ST TO SEPTEMBER 30TH, NO SOILS SHALL REMAIN EXPOSED FOR MORE THAN SEVEN (7) DAYS.
- THE CONSTRUCTION ENTRANCE MAY BE REDUCED TO LESS THAN 100' WITH APPROVAL OF THE EROSION CONTROL INSPECTOR.
- INLET PROTECTION FABRIC SHALL BE INSTALLED UNDER GRATES FOR INLETS IN LANDSCAPED AREAS.
- THE CONTRACTOR WILL PROVIDE APPROPRIATE PROACTIVE EROSION CONTROL DURING CONSTRUCTION TO PREVENT THE EROSION CONTROL SYSTEMS FROM FAILING DUE TO SILT. THE CONTRACTOR SHALL ENSURE THAT SEDIMENT DOES NOT IMPACT THE ADJACENT PROPERTIES OR THE SURROUNDING PUBLIC ROADS DURING CONSTRUCTION.
- THE IMPLEMENTATION OF THESE EROSION AND SEDIMENT CONTROL (ESC) PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED, AND VEGETATION IS ESTABLISHED.
- CARE SHOULD BE TAKEN TO NOT DISTURB MORE AREA THAN NEEDED FOR CONSTRUCTION REQUIREMENTS. ALL DISTURBED SOILS SURFACES ARE TO BE STABILIZED. STABILIZATION OF DISTURBED SOIL AREAS SHALL CONSIST OF: HYDROSEEDING OR HANDSEEDING, MULCHING, PLACING OF EROSION CONTROL BLANKETS OR PLASTIC IN LANDSCAPING SOIL AREAS. IT WILL ALSO CONSIST OF PAVING, AND CONCRETE WORK IN DRIVING, PARKING, AND SIDEWALK AREAS. ALL SEEDED AREAS ARE TO BE FERTILIZED, WATERED, AND MAINTAINED TO ENHANCE THE IMMEDIATE REGROWTH OF VEGETATION.
- MATERIAL STOCKPILES ARE TO BE PROTECTED FROM PRECIPITATION BY THE FOLLOWING MEANS:
 - TEMPORARY - COVER PILES WITH TARPS OR PLASTIC SHEETING WEIGHTED WITH TIRES, LUMBER, OR CONCRETE BLOCKS.
 - PERMANENT - COVER PILES WITH TARPS OR PLASTIC, OR RESEED. PERIMETER AREAS AROUND PILES ARE TO BE SURROUNDED WITH EROSION CONTROL FILTER FABRIC FENCES UNTIL SOILS SURFACE IS STABILIZED WITH RESEEDING.
- THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE CONTINUOUS FUNCTIONING. INSPECTION AND MAINTENANCE SHALL INCLUDE, BUT NOT BE LIMITED TO:
 - VERIFYING THAT ALL AREAS ARE GRADED SUCH THAT ALL RUNOFF IS DIRECTED TO A SEDIMENTATION TRAP FACILITY BEFORE BEING DISCHARGING TO SURFACE.
 - REMOVAL OF TRAPPED SILTS AT SILT BARRIERS, SILT TRAPS, OR POINTS OF ACCUMULATION.
 - ADDITIONAL PROTECTIVE MEASURES, AS REQUIRED, DUE TO JOB SITE CONDITIONS.
 - STABILIZED CONSTRUCTION ENTRANCES INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. MONITORING OF VEHICLES LEAVING THE SITE TO MINIMIZE TRANSMISSION OF LOOSE SOILS TO THE PUBLIC ROADWAYS.
 - IF SEDIMENT IS TRANSPORTED ONTO A ROAD SURFACE, THE SURFACE IS TO BE CLEANED THOROUGHLY AT THE END OF EACH DAY.
- THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 24 HOURS FOLLOWING A STORM EVENT.
- AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A TRAPPED CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM.
- THIS SEDIMENTATION AND EROSION CONTROL PLAN IS INTENDED TO BE UTILIZED AS A GUIDE TO CONTROL THE TRANSPORTATION OF LOOSE SOILS FROM THE PROPERTY THAT CAUSE WATER QUALITY AND NUISANCE PROBLEMS OUTSIDE OF THE CONSTRUCTION AREA.
- DEPENDING ON THE CONTRACTOR'S CONSTRUCTION PRACTICES, SOME PORTIONS OF THE PROPOSED EROSION CONTROL PLAN MAY BE VARIED ACCORDING TO THE JOB SITE CONDITION. ALL CHANGES TO THE PLAN MUST BE REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO ADJUSTMENT.

SITE GRADING

- THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE GEOTECHNICAL REPORT PREPARED FOR THE SITE BY MATERIALS TESTING & CONSULTING, INC. THE CONTRACTOR SHALL FOLLOW ALL RECOMMENDATIONS REGARDING EARTHWORK AS DETAILED IN THE REPORT.
- ALL PORTIONS OF THE SITE WITHIN THE LIMITS OF THE WORK SHALL BE MOWED AND STRIPPED TO REMOVE ALL GRASS, ROOTS, ORGANIC SOIL, AND CONSTRUCTION FILL DEBRIS PRIOR TO THE BEGINNING OF ANY GRADING OPERATIONS. THE CONTRACTOR SHALL SALVAGE AND STOCKPILE ENOUGH SELECT TOPSOIL TO ACCOMMODATE LANDSCAPING NEEDS.
- FOLLOWING STRIPPING AND GRUBBING, THE EXPOSED SOILS SHALL BE PROOF ROLLED TO REVEAL WEAK, ORGANIC, OR OTHER UNSUITABLE SOILS. UNSUITABLE SOILS SHALL BE EXCAVATED TO FIRM GROUND AND FILLED TO GRADE WITH SUITABLE NATIVE OR IMPORTED STRUCTURAL FILL.

- EXPOSED SUBGRADE SOILS ON AREAS TO RECEIVE STRUCTURAL FILL SHALL BE SCARIFIED TO A DEPTH OF 8 INCHES.
- IF FILLS ARE NEEDED FOR STRUCTURAL SUPPORT, THEY SHALL BE INSTALLED IN NO MORE THAN 8-INCH LIFTS, AND SHALL BE COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY FOR FINE GRAINED NATIVE SOILS UNLESS OTHERWISE SPECIFIED ON THE PLAN. THE TOP LIFT OF FILL SHALL BE COMPACTED TO 92%. ALL OTHER SOILS SHALL BE COMPACTED TO NO LESS THAN 85%.
- COMPACTION TESTING SHALL BE DONE IN ACCORDANCE WITH ASTM D 698 (STANDARD PROCTOR).
- AT THE END OF THE GRADING OPERATION, THE STOCKPILED STRIPPINGS SHALL BE DISTRIBUTED ON THE LANDSCAPED AREAS IN A COMPACTED DEPTH NOT TO EXCEED 12".
- ALL SURFACES SHALL BE GRADED SMOOTH AND FREE OF IRREGULARITIES THAT MIGHT ACCUMULATE SURFACE WATER.
- ALL GRADING OPERATIONS AND DISTURBED SURFACE STABILIZATION SHALL BE IN ACCORDANCE WITH THE PROJECT EROSION CONTROL PLAN.

TRANSPORTATION

- THE MOST CURRENT EDITIONS OF THE WASHINGTON DEPARTMENT OF TRANSPORTATION STANDARD DRAWINGS AND STANDARD DETAILS AND THE MOST CURRENT EDITIONS OF THE CITY OF SEDRO-WOOLLEY DESIGN STANDARDS SHALL BE UTILIZED IN THE CONSTRUCTION OF TRANSPORTATION ELEMENTS OF THESE PLANS.
- STREET SIGNING AND STRIPING SHALL BE INSTALLED BY THE DEVELOPER. ALL STREET SIGNS AND STRIPING SHALL BE INSTALLED PER THE LATEST ADOPTED EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION AND LATEST ADOPTED EDITION OF THE STATE OF WASHINGTON SUPPLEMENT TO THE MUTCD.
- ALL CONSTRUCTION WITHIN THE RIGHT-OF-WAY SHALL HAVE AN APPROVED TRAFFIC CONTROL PLAN AND RIGHT-OF-WAY PERMIT PRIOR TO ANY ON-SITE CONSTRUCTION ACTIVITY.
- PAVING WITHIN THE PUBLIC RIGHT-OF-WAY WILL NOT BE ALLOWED DURING WET OR COLD WEATHER, PER DOT SPECIFICATIONS.
- ALL PAVEMENT SHALL BE STRAIGHT CUT PRIOR TO PAVING. EXISTING PAVEMENT SHALL BE REMOVED AS NECESSARY TO PROVIDE A SMOOTH TRANSITION FOR BOTH RIDE AND DRAINAGE.
- ALL ADA PEDESTRIAN RAMPS SHOWN ON THE PLANS AND ON THE DETAIL SHEETS SHALL BE CONSTRUCTED WITH THE PROJECT.
- CONTRACTOR SHALL REPORT ALL DAMAGES IMMEDIATELY TO THE CITY'S PUBLIC WORKS DEPARTMENT OR CONTACT THE INSPECTOR ON THE JOB.
- PUBLIC RIGHTS-OF-WAY SHALL BE KEPT IN A CLEAN AND SERVICEABLE CONDITION AT ALL TIMES. IN THE EVENT MATERIALS ARE INADVERTENTLY DEPOSITED ON ROADWAYS, THE MATERIAL SHALL BE PROMPTLY REMOVED. MATERIALS ARE TO BE SWEEPED AND REMOVED WITH A VACUUM SWEEPER.

STORM SEWER CONSTRUCTION

- ALL MATERIALS AND INSTALLATION OF STORM SEWERS AND DRAINAGE SYSTEMS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS IN THE LATEST ADDITION OF THE "WASHINGTON STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION" BY THE AMERICAN PUBLIC WORKS ASSOCIATION AND THE WASHINGTON DEPARTMENT OF TRANSPORTATION, WHEREVER THE STANDARD SPECIFICATIONS REFER TO THE "STATE", "SECRETARY", OR WHEN REFERENCE IS MADE TO THE DEPARTMENT OF TRANSPORTATION IT SHALL BE UNDERSTOOD THAT THE STANDARD SPECIFICATIONS SHOULD READ THE "OWNER". ADDITIONALLY, ALL MATERIALS AND INSTALLATION OF STORM SEWERS AND DRAINAGE SYSTEMS IN THE RIGHT OF WAY SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS IN THE MOST CURRENT EDITIONS OF THE CITY OF SEDRO-WOOLLEY DESIGN STANDARDS.
- PIPE LENGTHS SHOWN ON THE PLANS ARE TO THE CENTER OF THE STRUCTURE.
- PRE-PAVING AS-BUILTS ARE REQUIRED FOR STORMWATER, WATER, AND SANITARY FACILITIES. PROVIDE AS-BUILT INFORMATION TO THE CONSTRUCTION INSPECTOR AND CONSTRUCTION ENGINEER FOR APPROVAL PRIOR TO ANY PAVING.
- MATERIALS FOR STORM SEWER INLET LATERALS AND MAINS SHALL BE DUAL-WALLED, SMOOTH INTERIOR, CORRUGATED POLYETHYLENE STORM SEWER PIPE, UNLESS OTHERWISE SPECIFIED ON PLANS.
- SEE THE WASHINGTON STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION SECTION 9-08 FOR STORM SEWER PIPE MATERIALS AND PLANS.
- PERFORATED PIPE MATERIALS SHALL BE PERFORATED CORRUGATED POLYETHYLENE STORM SEWER PIPE.
- CATCH BASINS SHALL BE TYPE 1 H-20 OR PROJECT APPROVED EQUAL, UNLESS OTHERWISE SPECIFIED ON PLANS.
- TRENCH EXCAVATION SHALL MEET THE REQUIREMENTS OF WASHINGTON STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION SECTION 7-08.
- STORM SEWER PIPE BEDDING AND BACKFILL SHALL MEET THE REQUIREMENTS OF SECTIONS 7-08. PIPE BEDDING MATERIALS SHALL BE $\frac{3}{4}$ " - 0 AGGREGATE BEDDING PER SECTION 9-03 AND PIPE BACKFILL MATERIALS SHALL BE CLASS A OR CLASS B PER SECTION 9-03 AS APPROVED BY THE INSPECTOR. BACKFILL MATERIAL SHALL BE COMPACTED TO 95% OF THE MAXIMUM RELATIVE DENSITY PER ASTM D 698 (STANDARD PROCTOR). NATIVE BACKFILL MAY BE USED UPON APPROVAL FROM THE INSPECTOR. STORM SEWER PIPE SHALL BE INSTALLED IN THE RIGHT OF WAY IN ACCORDANCE TO THE "UTILITY TRENCH" CITY OF SEDRO-WOOLLEY STANDARD DETAIL.
- STORM SEWER INLETS, AS NOTED ON THE PLANS, SHALL BE FITTED WITH AN APPROVED TRAP.

SANITARY SEWER CONSTRUCTION

- SANITARY SEWER LATERALS SHALL BE 6" IN SIZE, INSTALLED AT A MINIMUM SLOPE OF 0.02 FT/FT UNLESS OTHERWISE SPECIFIED ON THE PLAN.
- MATERIALS FOR SANITARY SEWER PIPE SHALL BE PVC PIPE CONFORMING TO ASTM D3034 OR GREEN COLORED PVC-C900 DR 14, HDPE PIPE DR 21, OR DUCTILE IRON, AS NOTED ON THE PLANS.
- PIPE LENGTHS SHOWN ON THE PLANS ARE TO THE CENTER OF THE STRUCTURE.
- SANITARY SEWER PIPE BEDDING AND BACKFILL SHALL MEET THE REQUIREMENTS OF SECTIONS 7-08. PIPE BEDDING MATERIALS SHALL BE $\frac{3}{4}$ " - 0 AGGREGATE BEDDING PER SECTION 9-03 AND PIPE BACKFILL MATERIALS SHALL BE CLASS A OR CLASS B PER SECTION 9-03 AS APPROVED BY THE INSPECTOR. BACKFILL MATERIAL SHALL BE COMPACTED TO 95% OF THE MAXIMUM RELATIVE DENSITY PER ASTM D 698 (STANDARD PROCTOR). NATIVE BACKFILL MAY BE USED UPON APPROVAL FROM THE INSPECTOR. SANITARY SEWER PIPE SHALL BE INSTALLED IN ACCORDANCE TO THE "TRENCH BACKFILL, BEDDING, PIPE ZONE, AND MULTIPLE INSTALLATIONS" STANDARD DETAIL. SANITARY SEWER PIPE SHALL BE INSTALLED IN THE RIGHT OF WAY IN ACCORDANCE TO THE "UTILITY TRENCH" CITY OF SEDRO-WOOLLEY STANDARD DETAIL.
- CONTRACTOR TO MAINTAIN A MINIMUM 10' HORIZONTAL AND 18" VERTICAL SEPARATION BETWEEN ALL EXISTING AND PROPOSED WATER AND SANITARY SEWER MAINS.
- ALL SANITARY MANHOLES SHALL BE 48" Ø UNLESS OTHERWISE SPECIFIED ON PLANS.
- LOCATOR TAPE TO BE LOCATED EIGHTEEN (18) INCHES ABOVE A SEWER MAIN AND TWELVE (12) INCHES ABOVE A SERVICE LINE.
- THE LOCATOR TAPE SHALL BE MARKED WITH CONTINUOUS THREE (3) INCH WIDE GREEN SIX (6) MIL THICK LOCATOR TAPE THREE (3) INCH HIGH BLACK LETTERS EVERY THREE (3) FEET WITH "WARNING - BURIED SANITARY SEWER".
- A CONTINUOUS TONING WIRE SHALL BE ATTACHED TO THE TOP OF THE SANITARY SEWER SERVICE LINE. THE TONING WIRE SHALL BE COATED #14 AWC (MIN.) SOLID COPPER WIRE, OR APPROVED EQUAL. THE TONING WIRE SHALL END IN THE VALVE BOX WITH A MINIMUM OF ONE (1) FOOT COILED OF WIRE. THE TONING WIRE SHALL BE TESTED FOR CONTINUITY PRIOR TO ACCEPTANCE. ALL SPLICES WILL BE SOLDERED A MINIMUM OF TWO (2) INCHES IN LENGTH AND ENCASED WITH 3M SCOTCH #220 VINYL MASTIC PADS (3 1/2" BY 4 1/2") OR 3M SCOTCH 33 ELECTRICAL TAPE AND COATED WITH SCOTCHKOTE ELECTRICAL COATING #1485 (REPEAT PROCESS AFTER FIRST COATING DRIES), OR APPROVED EQUAL.

WATER SYSTEM CONSTRUCTION

- MATERIALS FOR WATER PIPE SHALL BE DUCTILE IRON CL-52 OR PVC PIPE CONFORMING TO PVC-C900 DR 25, UNLESS OTHERWISE SPECIFIED ON PLANS.
- PIPE BEDDING MATERIALS SHALL BE $\frac{3}{4}$ " - 0 AGGREGATE BEDDING PER SECTION 9-03, COMPACTED TO 95% OF THE MAXIMUM RELATIVE DENSITY PER ASTM D 698 (STANDARD PROCTOR). BACKFILL FOR WATER TRENCHES SHALL BE CLASS A OR CLASS B PER SECTION 9-03 AS APPROVED BY THE DIRECTOR, UNLESS OTHERWISE SPECIFIED ON THE PLANS. NATIVE BACKFILL MAY BE USED UPON APPROVAL FROM THE INSPECTOR. BACKFILL MATERIAL SHALL BE COMPACTED TO 95% OF THE MAXIMUM RELATIVE DENSITY PER ASTM D 698 (STANDARD PROCTOR). WATER PIPE SHALL BE INSTALLED IN THE RIGHT OF WAY IN ACCORDANCE WITH THE CITY OF SEDRO-WOOLLEY STANDARD DETAIL.
- CONTRACTOR TO MAINTAIN A MINIMUM 10' HORIZONTAL AND 18" VERTICAL SEPARATION BETWEEN ALL EXISTING AND PROPOSED WATER AND SANITARY SEWER MAINS.
- ANY SIGNIFICANT DEVIATION FROM THE PLANS WILL REQUIRE A REQUEST FROM THE APPLICANT'S ENGINEER AND APPROVAL FROM THE CITY'S ENGINEER AND CITY INSPECTOR.

BACKFLOW PREVENTION DEVICE NOTES

- ALL COMMERCIAL WATER METERS SHALL BE PROTECTED WITH A STATE-APPROVED BACKFLOW DEVICE.
- STATE APPROVED BACKFLOW PROTECTION SHALL BE REQUIRED ON FIRE SPRINKLER AND IRRIGATION SYSTEMS. ALL HOSEBIBS SHALL BE PROTECTED WITH VACUUM BREAKERS. FURTHER BACKFLOW PREVENTION SHALL BE REQUIRED DEPENDING ON WATER USAGE IE - BOILERS, CHILLERS, CHEMICAL ADDITIONS, BOOSTER PUMPS, WELLS, ETC.

ABBREVIATIONS

AC	ACRE, ASPHALT CONCRETE PAVEMENT	LB	POUND(-S)
ACOE	ARMY CORPS OF ENGINEERS	LF	LINEAR FEET
AD	AREA DRAIN	LONG.	LONGITUDINAL
AGG	AGGREGATE	LT	LEFT
AIR	AIR RELIEF	MAX	MAXIMUM
AMSL	ABOVE MEAN SEA LEVEL	MFA	MAUL FOSTER & ALONGI, INC.
AP	ANGLE POINT	MFR	MANUFACTURER
APN	APPARENT PARCEL NUMBER	MH	MANHOLE
APPD	APPROVED	MIC	MONUMENT (IN CASE)
APPROX. ±	APPROXIMATE(-E, -LY)	MIN	MINIMUM; MINUTE
ASPH	ASPHALT	MISC	MISCELLANEOUS
ASSY	ASSEMBLY	MJ	MECHANICAL JOINT
BCR	BEGIN CURB RETURN	MON	MONUMENT (SURFACE)
BF	BUTTERFLY	MW	MONITORING WELL
BGS	BELOW GROUND SURFACE	N	NORTH
BLDG	BUILDING	N/A	NOT APPLICABLE
BLVD	BOULEVARD	NAT G, NG	NATURAL GAS
BM	BENCHMARK	NE	NORTHEAST
BMP	BEST MANAGEMENT PRACTICE	NO	NUMBER
BO	BLOW-OFF	NTS	NOT TO SCALE
BOC	BACK OF CURB	NW	NORTHWEST
BOT, BTM	BOTTOM	OC	ON CENTER
B.O.W.	BOTTOM OF WALL	OD	OUTSIDE DIAMETER
BVC	BEGINNING VERTICAL CURVE	OHP	OVERHEAD POWER
		OT	OWNERSHIP TIE
CB	CATCH BASIN		
CDF	CONTROLLED DENSITY FILL	P	PIPE
CEM	CEMENT	P TRAN	PAD MOUNTED TRANSFORMER
CF	CUBIC FEET	PC	POINT OF CURVATURE
CFS	CUBIC FEET PER SECOND	PCC	PORTLAND CEMENT CONCRETE
CIP	CAST IRON PIPE	PEN.	PENETRATION
CIR	CIRCLE	PERF	PERFORAT(-E, -ED, -ES, -ION)
CK	CHECK	P.L., PL	PROPERTY LINE, PLACE
CL, ɳ	CENTERLINE	POW V	POWER VAULT
CMP	CORRUGATED METAL PIPE	PP	POWER POLE
CO	CLEANOUT	PROP.	PROPOSED
COMP	COMPACTION	PS	PUMP STATION
CONC	CONCRETE	PSF	POUNDS PER SQUARE FOOT
CPE	CORRUGATED POLYETHYLENE	PSI	POUNDS PER SQUARE INCH
CPL	COUPLING	PT	POINT OF TANGENT
CT	COURT	PV	PLUG VALVE
CTR	CENTER	PVI	POINT OF VERTICAL INTERSECTION
CULV	CULVERT	PVC	POLYVINYL CHLORIDE
CY	CUBIC YARD	PVMT	PAVEMENT
		R, RAD	RADIUS
D	DEPTH	RC	REINFORCED CONCRETE
DEG	DEGREE(-S)	RCP	REINFORCED CONCRETE PIPE
DI	DUCTILE IRON	RD	ROOF DRAIN
DIA	DIAMETER	RED	REDUCER
DIM.	DIMENSION(-S)	REQD	REQUIRED
DIP, D.I.P.	DUCTILE IRON PIPE	REQT	REQUIREMENT
DOT	DEPARTMENT OF TRANSPORTATION	REV	REVISION
DR	DIMENSION RATIO	RW, ROW	RIGHT OF WAY
DTL	DETAIL	RT	RIGHT
DWG(S)	DRAWING(-S)		
E	EAST	S	SOUTH, SLOPE
EA	EACH	SB	SOIL BORING
ECR	END CURB RETURN	SCH	SCHEDULE
EG	EXISTING GROUND	SD	STORM DRAIN
EL, ELEV	ELEVATION	SDR	STANDARD DIMENSION RATIO
ELB, ELL	ELBOW	SE	SOUTHEAST
ELEC	ELECTRIC(-AL)	SF	SQUARE FEET
ENGR	ENGINEER	SHT	SHEET
ENTR	ENTRANCE	SL	SLOPE
EP, EOP	EDGE OF PAVEMENT	SPEC	SPECIFICATIONS
EQ	EQUAL(-LY)	SQ	SQUARE
ESC	EROSION CONTROL	SQ IN	SQUARE INCHES
ESMT	EASEMENT	SRF	SURFACE
EST	ESTIMATE(-D)	ST	STREET
EVC	END VERTICAL CURVE	STA	STATION
EXC	EXCAVATE	STD	STANDARD
EX., EXTG.	EXISTING	STL	STEEL
EW	EACH WAY	STRM	STORM
		STRUCT	STRUCTUR(-E, -AL)
FF	FINISH FLOOR	SSWR	SANITARY SEWER
FG	FINISH GRADE	SW,S/W	SIDEWALK, SOUTHWEST
FH	FIRE HYDRANT		
FL	FLOW LINE	TB	THRUST BLOCK
FLG	FLANGE	TBM	TEMPORARY BENCHMARK
FM	FORCE MAIN	TC	TOP OF CURB
FT	FEET, FOOT	TEL, TELE	TELEPHONE
		TEMP	TEMPORARY
		TP	TOP OF PAVEMENT, TEL POLE, TURNING POINT
GAL	GALLON(-S)	TW	TYPICAL
SM	GAS METER	TYP	TYPICAL
GND	GROUND		
GP	GUARD POST	UG	UNDERGROUND
GPM	GALLONS PER MINUTE	UGE	UNDERGROUND ELECTRIC
GRD	GRADE	UTIL	UTILITY
GV	GAS VALVE, GATE VALVE		
		VC	VERTICAL CURVE
HDPE	HIGH DENSITY POLYETHYLENE	VERT	VERTICAL
HGT, HT	HEIGHT	VOL	VOLUME
HP	HORSEPOWER		
HORIZ	HORIZONTAL	W	WIDTH; WIDE; WEST
HYD	HYDRANT	W/	WITH
		WATR	WATER
ID	INSIDE DIAMETER	WM	WATER METER
IE	INVERT ELEVATION	W/O	WITHOUT
IN	INCH(-ES)	WSE	WATER SURFACE ELEVATION
INTX	INTERSECTION	WV	GATE/GENERAL WATER VALVE
INV	INVERT		
IP	IRON PIPE	YD	YARD
		YR	YEAR
L	LENGTH		
LAT	LATERAL		

GENERAL LEGEND

GAS/POWER/TELEPHONE SYMBOLS

SYMBOL	EXIST.	PROP.	DESCRIPTION
			GAS METER
			GAS VALVE
			PAD MOUNTED TRANSFORMER
			POWER VAULT
			TRANSMISSION TOWER
			UTILITY POLE
			UTILITY POLE ANCHOR
			TELEPHONE RISER
			TELEPHONE VAULT
			LIGHT POLE

SURVEY SYMBOLS

SYMBOL	THEOR./ EXIST.	FOUND/ PROP.	DESCRIPTION
			ANGLE POINT
			BENCH MARK
			BLOCK CORNER
			IRON PIPE
			MONUMENT
			OWNERSHIP TIE
			SECTION DATA:
			SECTION CENTER
			SECTION CORNER
			QUARTER CORNER
			SIXTEENTH CORNER
			CLOSING CORNER
			MEANDER CORNER
			WITNESS CORNER
			SOIL BORING
			SPOT ELEVATION

EXISTING GRADE MAJOR CONTOUR	
EXISTING GRADE MINOR CONTOUR	
EXISTING STORM DRAIN PIPE	
EXISTING WATER PIPE	
EXISTING SANITARY SEWER PIPE	
EXISTING AC PAVEMENT	
EXISTING CONCRETE SURFACING	
EXISTING GRAVEL SURFACING	
EXISTING BUILDING	
EXISTING FENCE LINE	
EXISTING ROAD CENTERLINE	
EXISTING RIGHT-OF-WAY	
EXISTING PROPERTY LINE	

WATER SYMBOLS

SYMBOL	EXIST.	PROP.	DESCRIPTION
			CAP/PLUG
			COUPLING
			GUARD POST / BOLLARD
			REDUCER
			THRUST BLOCK
			WATER METER
			DOUBLE CHECK VALVE ASSEMBLY
			FIRE HYDRANT
			AIR RELIEF
			BLOW-OFF VALVE
			CHECK VALVE
			GATE VALVE
			BENDS:
			90 DEGREE BEND
			45 DEGREE BEND
			22.5 DEGREE BEND
			11.25 DEGREE BEND
			VERTICAL BEND
			TEE
			CROSS

SANITARY/STORM SEWER SYMBOLS

SYMBOL	EXIST.	PROP.	DESCRIPTION
			SAN. SEWER CLEAN OUT
			SAN. SEWER MANHOLE
			STORM DRAIN CATCH BASIN
			STORM DRAIN CULVERT
			STORM DRAIN MANHOLE
			DRY WELL
			AREA DRAIN

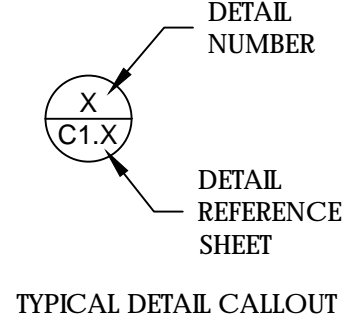
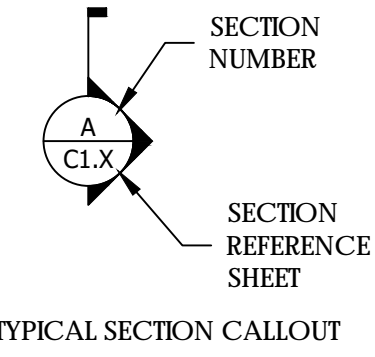
PROPOSED GRADE MAJOR CONTOUR (5.0' INTERVAL)	
PROPOSED GRADE MINOR CONTOUR (1.0' INTERVAL)	
PROPOSED STORM DRAIN PIPE	
PROPOSED WATER PIPE	
PROPOSED SANITARY SEWER PIPE	
PROPOSED AC PAVEMENT	
PROPOSED CONCRETE SURFACING	
PROPOSED GRAVEL SURFACING	
PROPOSED BUILDING	
PROPOSED FENCE LINE	
PROPOSED ROAD CENTERLINE	
PROPOSED RIGHT-OF-WAY	
PROPOSED PROPERTY LINE	

CHANNELIZATION SYMBOLS

SYMBOL	EXIST.	PROP.	DESCRIPTION
			BIKE PATH
			HANDICAP SYMBOL
			STOP
			RAISED MARKERS:
			LANE MARKERS TYPE I
			LANE MARKERS TYPE II
			SIGN

MISCELLANEOUS SYMBOLS

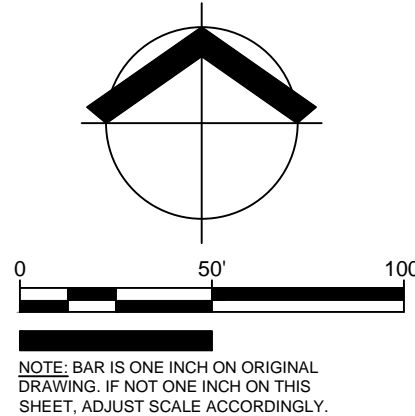
SYMBOL	EXIST.	PROP.	DESCRIPTION
			MONITORING WELL
			INLET PROTECTION PILLOW
			CONSTRUCTION ENTRANCE
			PROPOSED SPOT SHOT



PROPOSED SEDIMENT FENCE	
PROPOSED FLOW DIRECTION	
PROPOSED GRADE BREAK	
PROPOSED DITCH FLOW LINE	
PROPOSED COMPOST SOCK	
PROPOSED PAINT STRIPE	
PROPOSED TRUNCATED DOMES	
EXISTING FLOW DIRECTION	
EXISTING OVERHEAD POWER	
EXISTING UNDERGROUND POWER	
EXISTING UNDERGROUND TELEPHONE	
EXISTING UNDERGROUND GAS	



PRELIMINARY



Job No. 0715.08	Date: 05 OCT 2016
File No: SWIFT CENTER	
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EXISTING
CONDITIONS
PLAN

C100



Port of Skagit

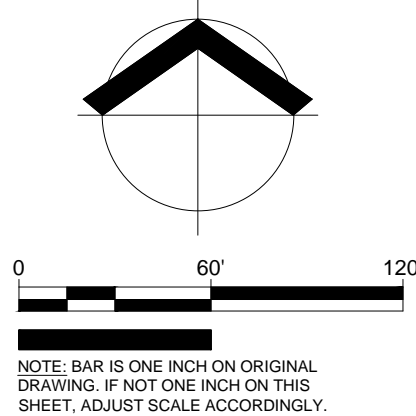
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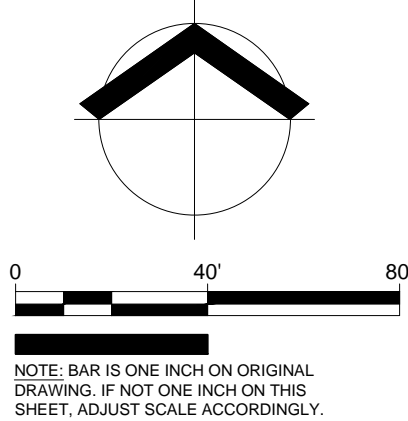
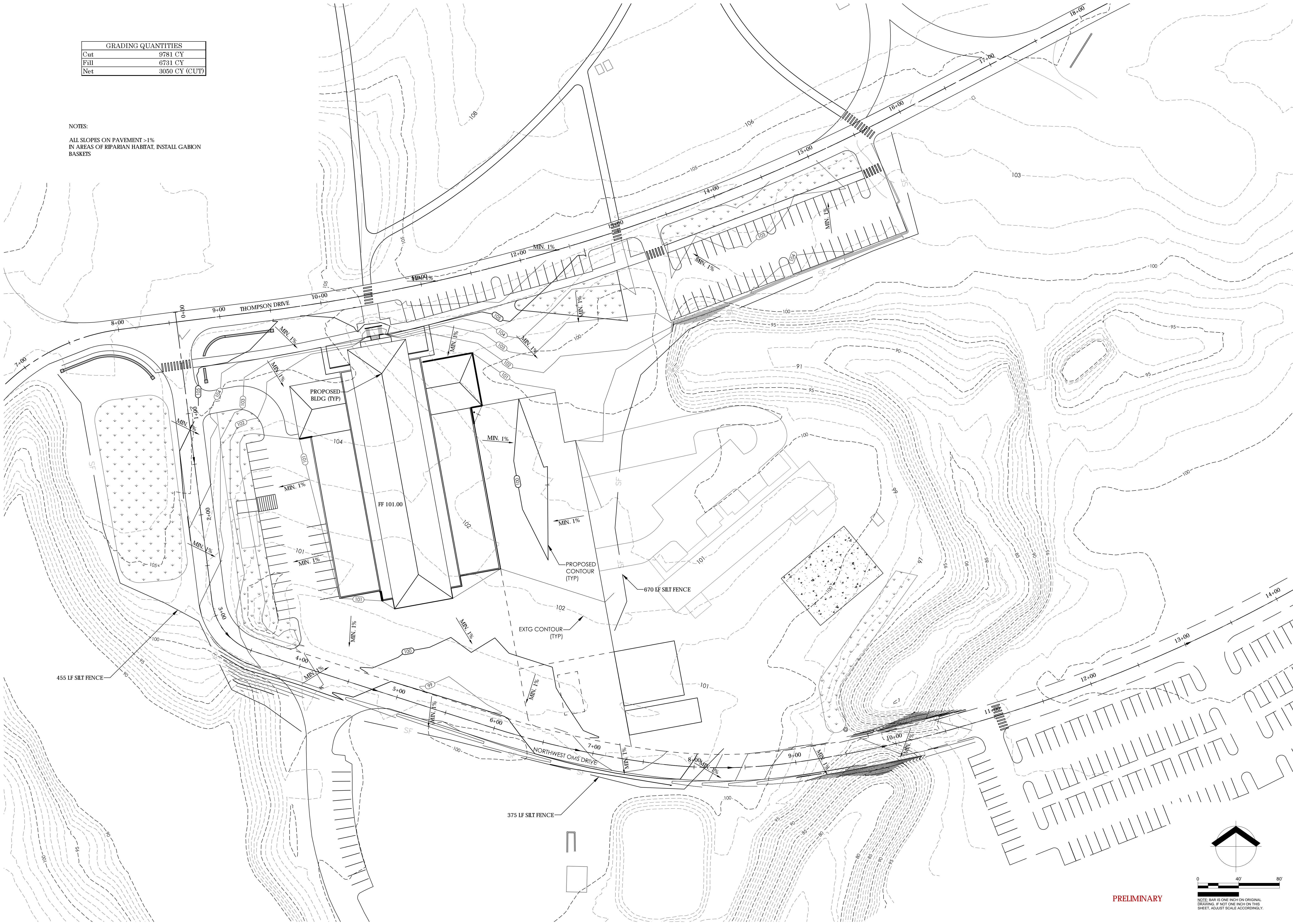
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PRELIMINARY

GRADING QUANTITIES	
Cut	9781 CY
Fill	6731 CY
Net	3050 CY (CUT)

NOTES:
ALL SLOPES ON PAVEMENT >1%
IN AREAS OF RIPARIAN HABITAT, INSTALL GABION BASKETS



PRELIMINARY

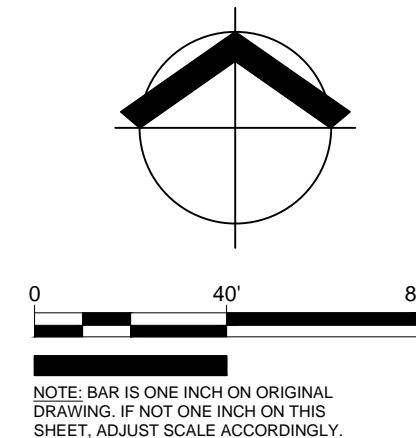
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GRADING AND
EROSION
CONTROL PLAN

C300



STREET AND STORM DRAINAGE PLAN

C400

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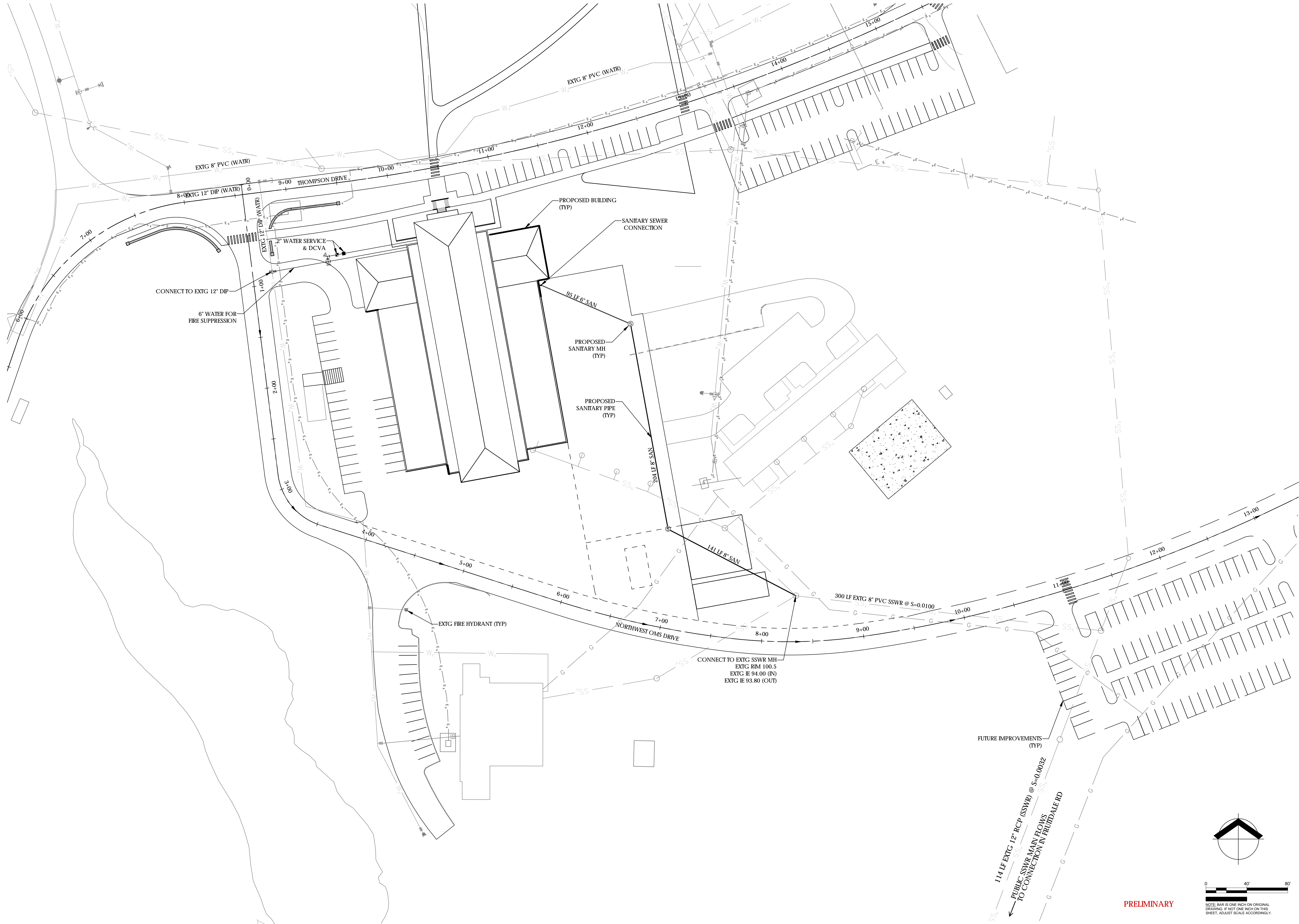
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WATER AND
SANITARY SEWER
PLAN

C500

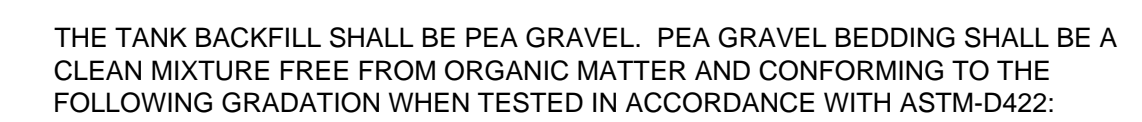
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4 CORRUGATED METAL PIPE DETENTION TANK BACKFILL
SCALE: NTS



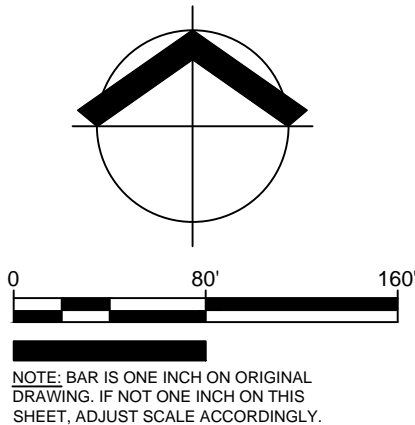
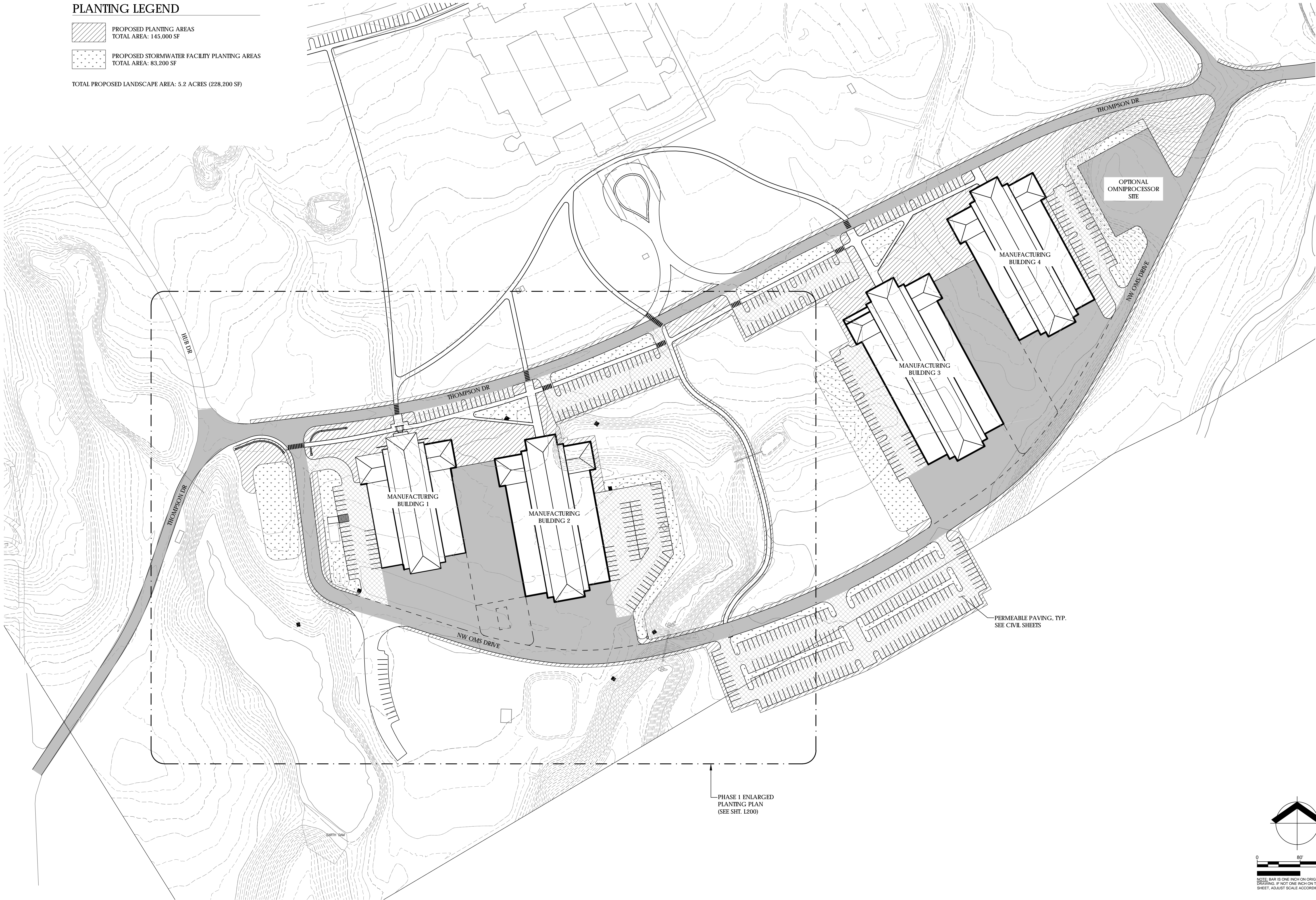
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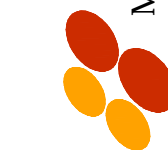
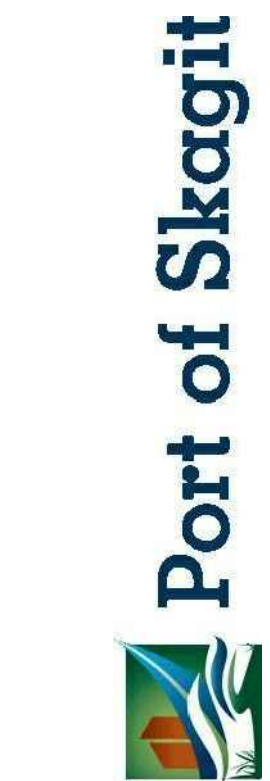
PLANTING LEGEND

- PROPOSED PLANTING AREAS
TOTAL AREA: 145,000 SF
- PROPOSED STORMWATER FACILITY PLANTING AREAS
TOTAL AREA: 83,200 SF

TOTAL PROPOSED LANDSCAPE AREA: 5.2 ACRES (228,200 SF)



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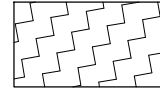
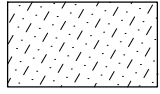
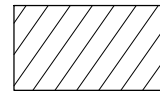
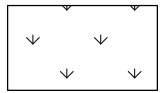

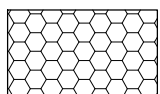
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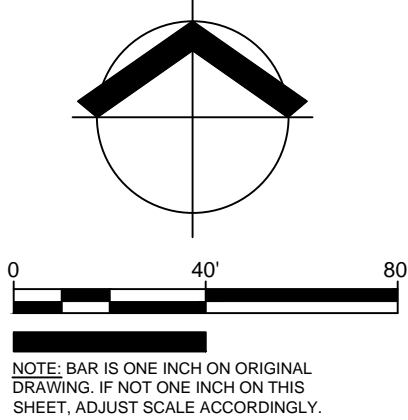
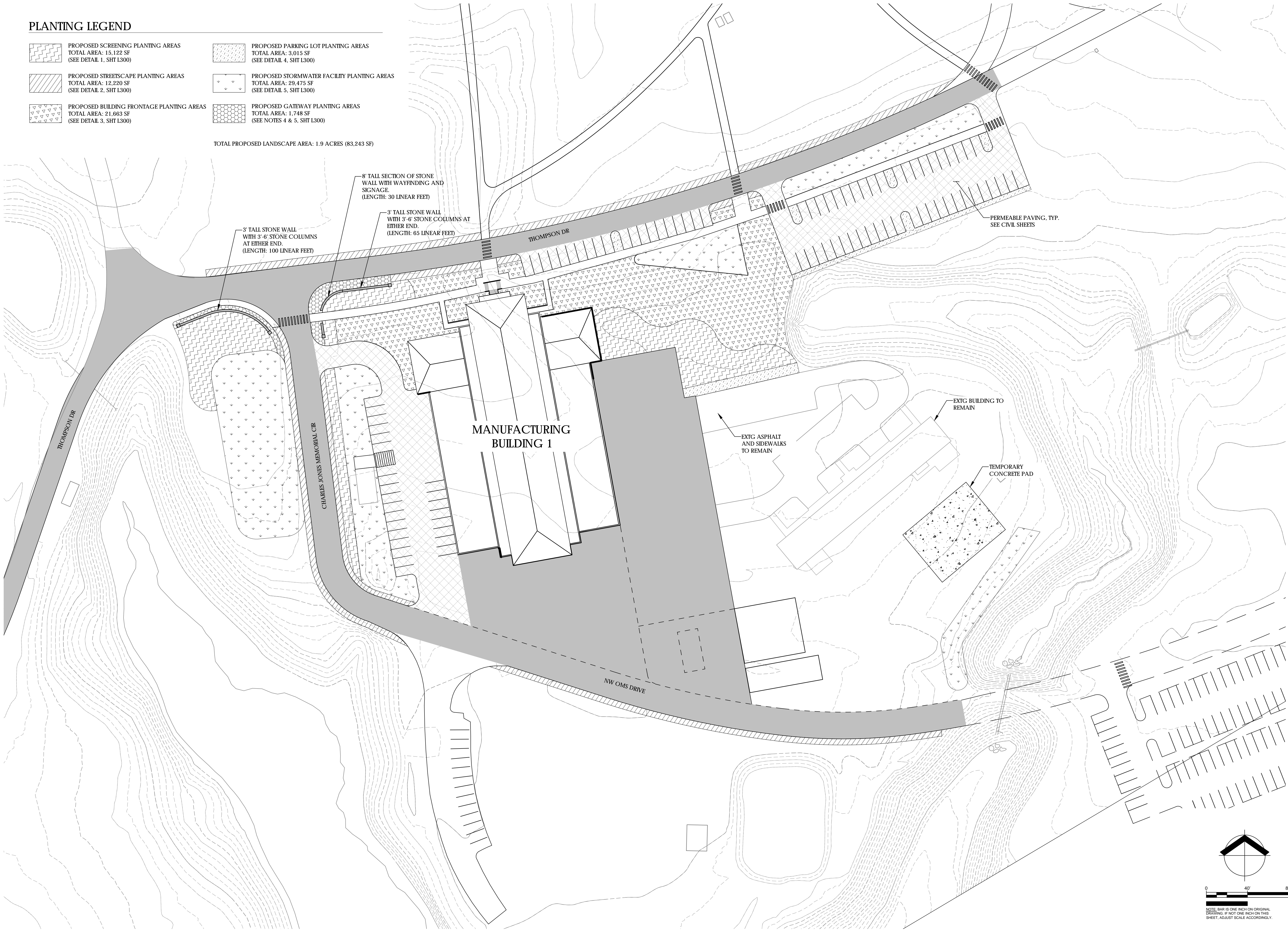
ZONE A -
SOUTHERN
INFLUENCE
AREA
PLANTING PLAN

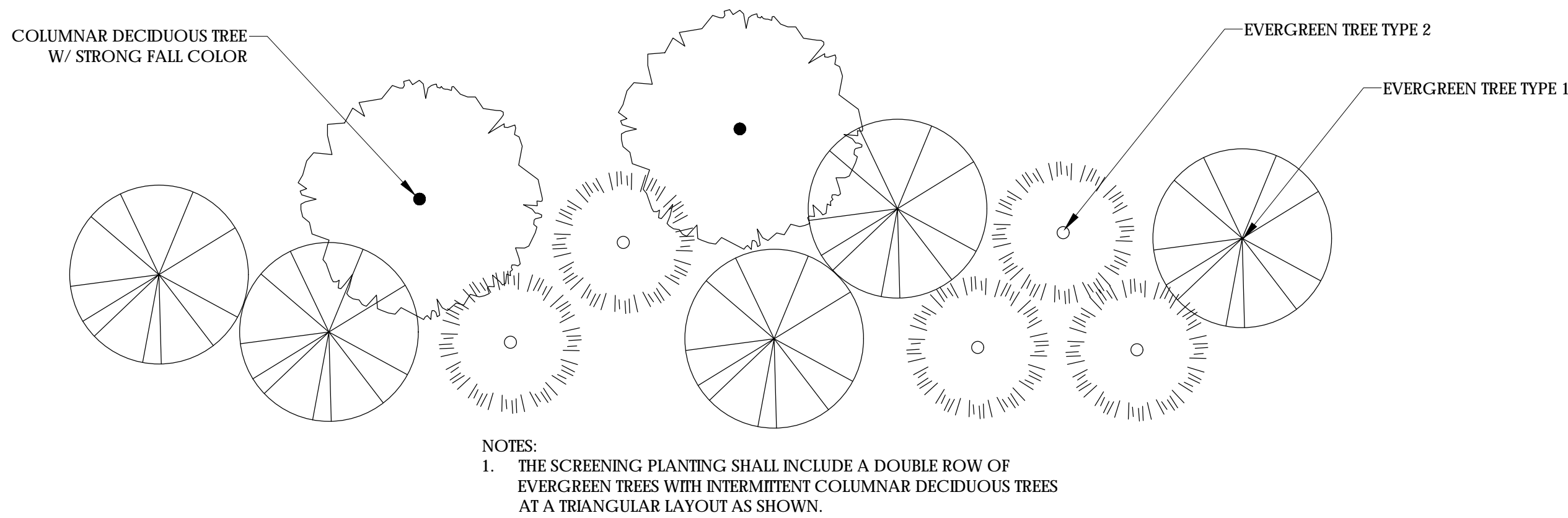
L100

PLANTING LEGEND

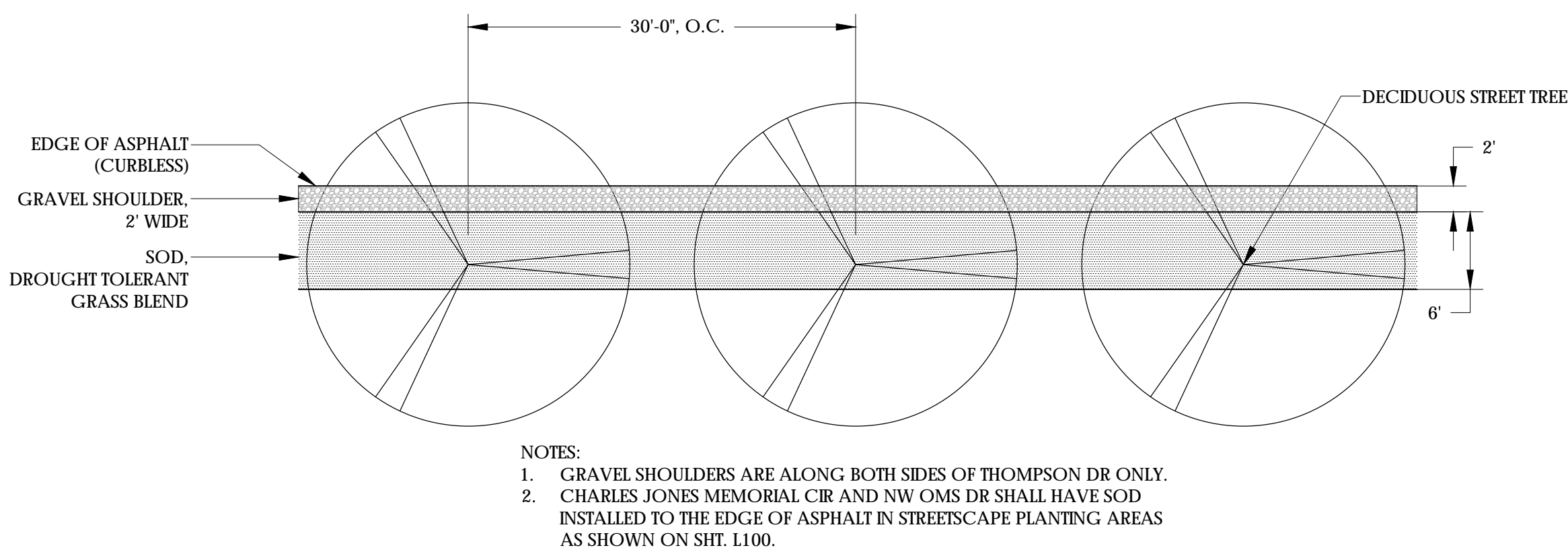
	PROPOSED SCREENING PLANTING AREAS TOTAL AREA: 15,122 SF (SEE DETAIL 1, SHT L300)		PROPOSED PARKING LOT PLANTING AREAS TOTAL AREA: 3,015 SF (SEE DETAIL 4, SHT L300)
	PROPOSED STREETScape PLANTING AREAS TOTAL AREA: 12,220 SF (SEE DETAIL 2, SHT L300)		PROPOSED STORMWATER FACILITY PLANTING AREAS TOTAL AREA: 29,475 SF (SEE DETAIL 5, SHT L300)
	PROPOSED BUILDING FRONTAGE PLANTING AREAS TOTAL AREA: 21,863 SF (SEE DETAIL 3, SHT L300)		PROPOSED GATEWAY PLANTING AREAS TOTAL AREA: 1,748 SF (SEE NOTES 4 & 5, SHT L300)

TOTAL PROPOSED LANDSCAPE AREA: 1.9 ACRES (83,243 SF)

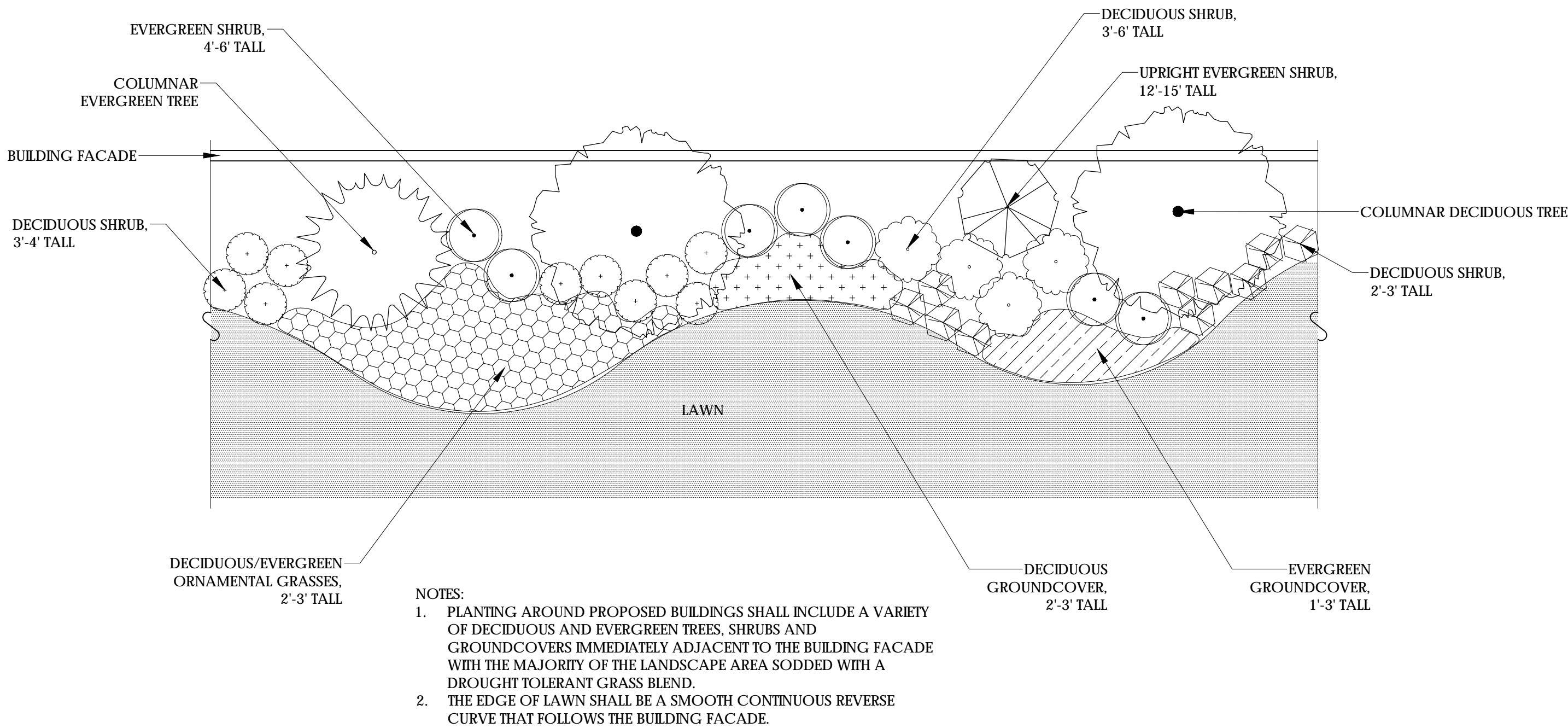




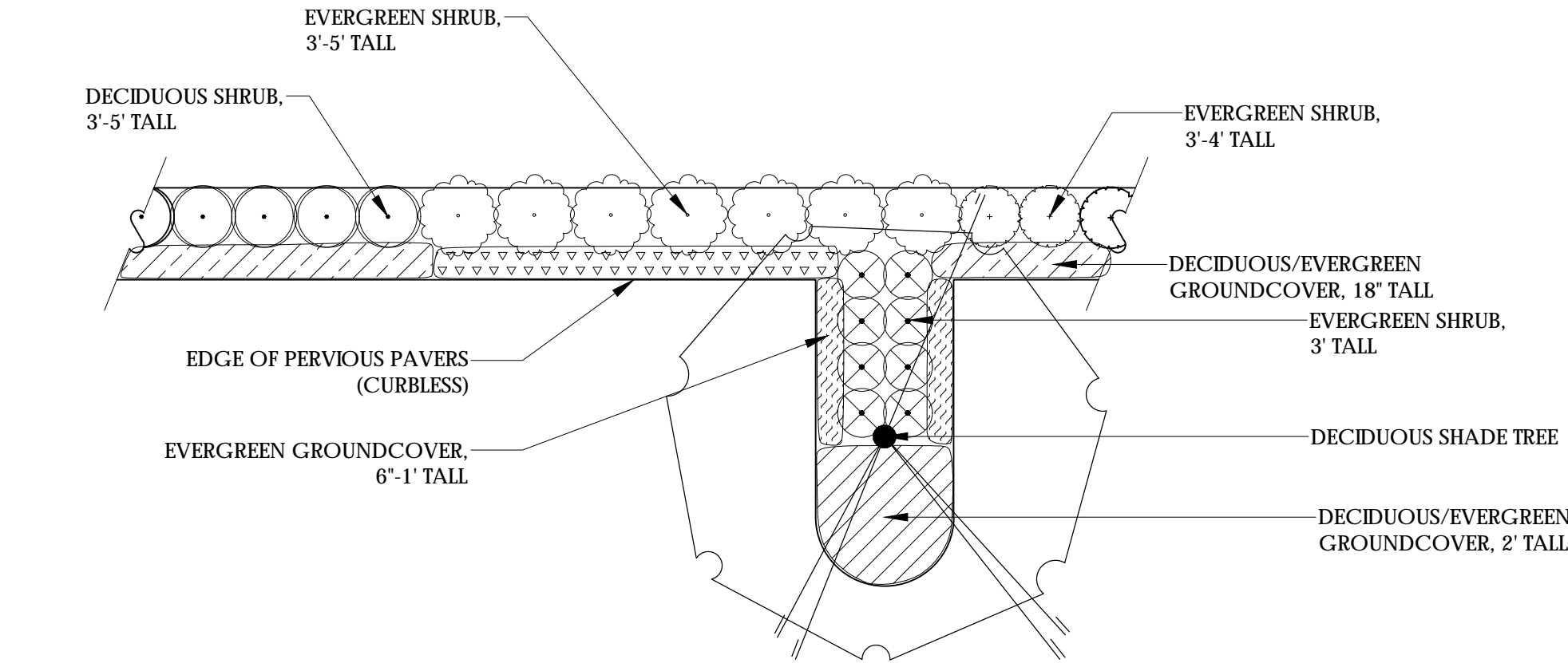
1 TYPICAL SCREENING PLANTING PLAN DETAIL
NTS



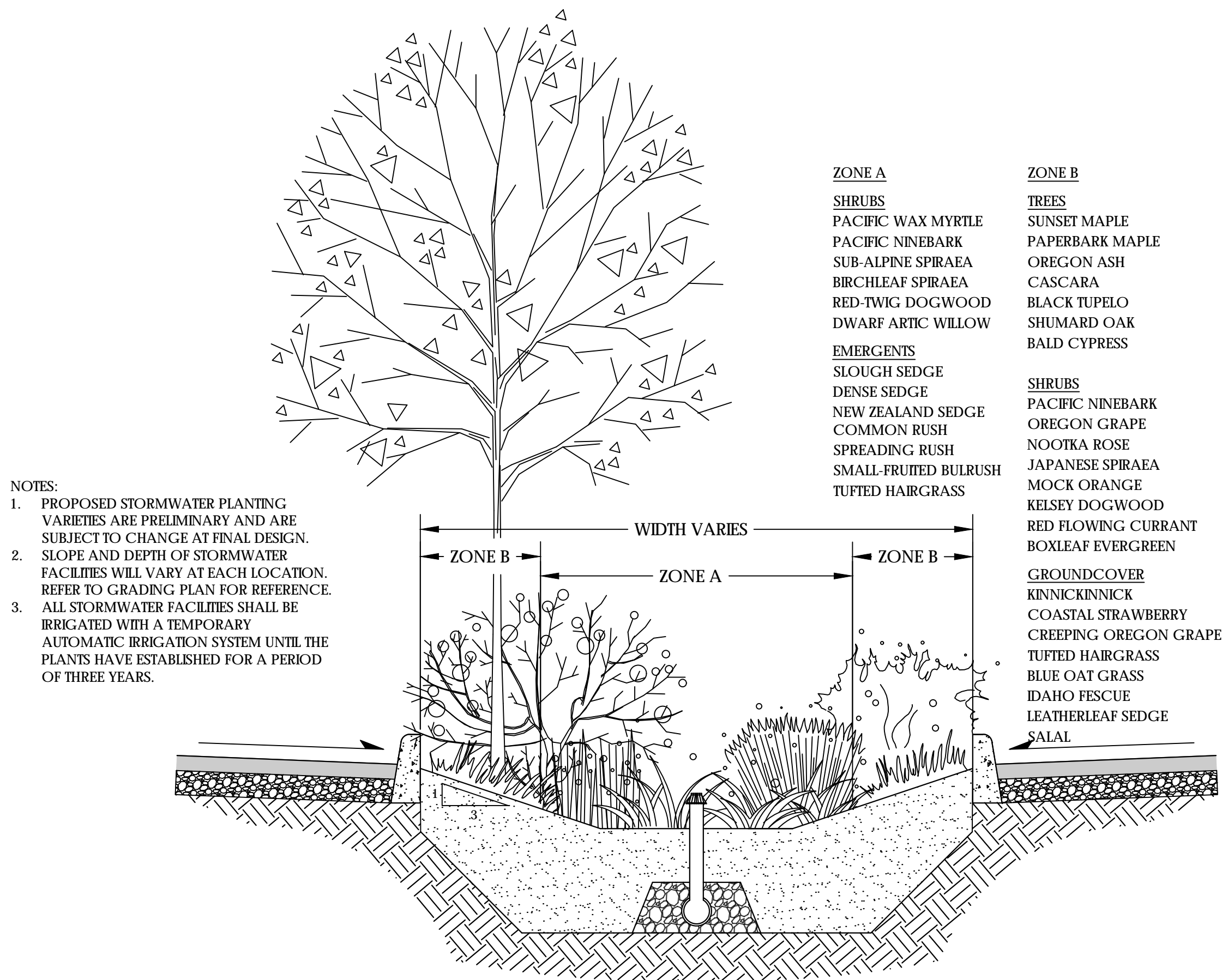
2 TYPICAL STREETSCAPE PLANTING PLAN DETAIL
NTS



3 TYPICAL BUILDING FRONTAGE PLANTING PLAN DETAIL
NTS



4 TYPICAL PARKING LOT PLANTING PLAN DETAIL
NTS



5 TYPICAL STORMWATER FACILITY PLANTING DETAIL
NTS

GENERAL LANDSCAPE NOTES:

- ALL DELINEATED WETLAND AND BUFFER IMPACTS WILL BE MITIGATED OFF-SITE AT AN APPROVED MITIGATION BANK PER WETLAND REPORT PREPARED BY OTHERS.
- ALL SPECIFIED PLANT MATERIALS SHALL MEET THE STANDARDS SET FORTH IN THE LATEST EDITION OF AMERICAN STANDARD FOR NURSERY STOCK, PUBLISHED BY AMERICAN ASSOCIATION OF NURSERYMEN, INC.
- ALL PROPOSED PLANT SIZING SHALL CONFORM TO THE FOLLOWING:
EVERGREEN TREES: 8' HT MIN.
DECIDUOUS TREES: 1.5' CAL, 10' HT MIN.
EVERGREEN SHRUBS: 2 - 5 GAL
DECIDUOUS SHRUBS: 2 - 5 GAL
GROUNDCOVERS: 1 GAL
- STONE WALL FEATURES AT INTERSECTION OF THOMPSON DR. AND CHARLES JONES MEMORIAL CIR. SHALL BE 3' TALL EXCEPT THE 8' SECTION PER SHT. L100. THE WALL SHALL BE CONSTRUCTED WITH AN 8" WIDE CMU CORE AND A CONCRETE FOOTING WITH A 5" THICK STONE VENEER AND CAP. THE FINISHED WALL WILL BE 2' WIDE WITH 3' WIDE COLUMNS AT EACH END. THE ROCK SHALL BE LOCALLY SOURCED AND MATCH EXISTING ROCK WALLS ALONG THOMPSON DR.
- GATEWAY LANDSCAPING ALONG FRONT OF PROPOSED STONE WALLS SHALL INCLUDE LOW GROWING DECIDUOUS AND EVERGREEN GROUNDCOVERS AND PERENNIALS TO MATCH EXISTING GATEWAY AND STONE WALL FEATURES. SEE SHT L100 FOR GATEWAY PLANTING AREAS.
- ALL PROPOSED LANDSCAPE AREAS SHALL BE IRRIGATED BY AN AUTOMATIC IRRIGATION SYSTEM.