

- AD-C** CHEMICAL ANCHORS AND REBAR IN HARDENED CONCRETE
- AD-C1** ADHESIVE ANCHORS SYSTEM (CONCRETE): HILTI HIT-RE 500-V3 (ICC ESR-3814 & LARR 26028) AND SIMPSON STRONG TIE SET-XP (ICC-ES ESR 2508 & LARR 25744), SD (ICC ESR 3013) USE ONLY ADHESIVE ANCHOR SYSTEMS THAT HAVE BEEN PRE-QUALIFIED IN ACCORDANCE WITH THE PROVISIONS OF ICC ES AC308, APPROVED FOR USE IN CRACKED CONCRETE. ANCHOR SYSTEMS SHALL BE INSTALLED PER THE REQUIREMENTS OF THE ICC ES EVALUATION SERVICES REPORT TO THE SPECIFIC ANCHOR, ADHESIVE ANCHORS IN UNREINFORCED MASONRY: SIMPSON STRONG TIE "SET" (ICC-ES ESR-1772 & LARR 25279).
- AD-C2** REMOVE GREASE, OIL, RUST AND ANY OTHER LAITANCE FROM RODS AND DOWELS PRIOR TO INSTALLATION.
- AD-C3** WHERE ADHESIVE ANCHOR SYSTEMS ARE USED TO INSTALL REINFORCING DOWEL BARS, ONLY 25% OF THE DOWELS NEED TO BE TESTED IF THE FOLLOWING CONDITIONS ARE MET.
- A. THE DOWELS ARE USED EXCLUSIVELY TO TRANSMIT SHEAR FORCES ACROSS JOINTS BETWEEN EXISTING AND NEW CONSTRUCTION.
 - B. THE NUMBER OF DOWELS IN ANY ONE MEMBER EQUALS OR EXCEEDS 12.
 - C. THE DOWELS ARE UNIFORMLY DISTRIBUTED ACROSS SEISMIC FORCE RESISTING SYSTEM IS NOT REQUIRED.
- AD-C4** TESTING OF SHEAR DOWELS ACROSS COLD JOINTS IN SLABS ON GRADE WHERE THE SLAB IS NOT PART OF THE LATERAL FORCE-RESISTING SYSTEM IS NOT REQUIRED.
- AD-C5** REPLACE ANCHORS AND DOWELS THAT FAIL DURING TESTING AND RETEST. IF MORE THAN 10% OF THE TESTED DOWELS AND ANCHORS FAIL TO ACHIEVE THE SPECIFIED TEST LOAD, TEST 100% OF THE DOWELS AND ANCHORS IN THE LAST 2 DAYS OF ANCHOR INSTALLATION.
- AD-C6** A HYDRAULIC CYLINDER SHALL BE USED TO APPLY THE TENSION TEST LOAD TO THE ANCHOR WITH THE CYLINDER SUPPORTED ON A LOADING PLATE HAVING A HOLE DIAMETER EQUAL TO 1.5 TO 2.0 TIMES THE ANCHOR HOLE DIAMETER (CONFINED CONFIGURATION) UNLESS OTHERWISE APPROVED BY ENFORCEMENT AGENCY.
- AD-C7** THE ACCEPTABLE CRITERIA FOR INSTALLED ANCHORS IS THE HYDRAULIC RAM METHOD: THE ANCHOR SHALL HAVE NO OBSERVABLE MOVEMENT AT THE APPLICABLE TEST LOAD.
- AD-C8** ALL HOLES FOR POST-INSTALLED ANCHORS SHALL BE DRILLED, CLEANED, AND PREPARED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS OR THE APPLICABLE ICC ESR. ALL DEBRIS SHALL BE REMOVED BY IN-HOLE BRUSHING COMBINED WITH VACUUM OR OIL-FREE COMPRESSED AIR. JETTING HOLES WITH WATER IS NOT PERMITTED.
- AD-C9** WHERE AN ANCHOR DOES NOT SET PROPERLY, OR FAILS A TENSION TEST, OR REINFORCEMENT IS ENCOUNTERED DURING DRILLING, THE DRILLED HOLE MAY NOT BE REUSED. ABANDONED HOLES SHALL BE FILLED WITH NON-SHRINK GROUT. THE MINIMUM CLEAR SPACING BETWEEN AN ABANDONED HOLE AND A DRILLED HOLE USED FOR A POST INSTALLED ANCHOR SHALL NOT BE LESS THAN 1 1/2 ANCHOR DIAMETERS UNLESS OTHERWISE APPROVED BY THE ENFORCEMENT AGENCY. IF THE ANCHOR OR DOWEL MAY NOT BE SHIFTED AS NOTED ABOVE, THE ENGINEER OF RECORD WILL DETERMINE A NEW LOCATION.
- AD-C10** REQUIRED TEST LOADS SHALL BE DETERMINED AS THE LESSER OF 1.25 TIMES THE MAXIMUM DESIGN STRENGTH AS PROVIDED IN THE ICC ESR FOR THE SPECIFIC ANCHOR OR 80% OF THE NOMINAL YIELD STRENGTH OF THE ANCHOR ELEMENT. AS SUMMARIZED IN THE TABLE BELOW (NOTE: FOR LIGHT WEIGHT CONCRETE, REDUCE THE CAPACITY OF TESTING LOAD BY 50%):

TENSION TEST LOADS (POUNDS)				
HILTI KWIK HUS EZ (ICC ESR-2322)				
CRACKED CONCRETE SEISMIC CONDITION B				
NOMINAL ANCHOR DIA (IN)	NOMINAL REBAR SIZE	EMBEDMENT DEPTH H _{ef} (IN)	NOMINAL WEIGHT CONCRETE (F _c = 4000 psi)	LIGHT WEIGHT CONCRETE (F _c = 5000 psi)
1/2	#4	3	2000	2130
1/2	#4	6 1/2	4350	4610
5/8	#5	8	6500	4890
3/4	#6	10	9330	9880
7/8	#7	12	10170	10780
1	#8	14	12530	13280

TENSION TEST LOADS (POUNDS)				
HILTI KWIK HUS EZ (ICC ESR-3027)				
CRACKED CONCRETE SEISMIC CONDITION B				
NOMINAL ANCHOR DIA (IN)	NOMINAL REBAR SIZE	INSTALLATION TORQUE (FT-LB)	NOMINAL WEIGHT CONCRETE (F _c = 4000 psi)	LIGHT WEIGHT CONCRETE (F _c = 5000 psi)
1/2	#4	3	2190	2320
1/2	#4	6 1/2	4750	5030
5/8	#5	8	7860	8330
3/4	#6	10	12650	13410
7/8	#7	12	17870	18910
1	#8	14	24010	25450

- AD-S** SCREW ANCHORS IN HARDENED CONCRETE
- AD-S1** SCREW ANCHOR SYSTEM: HILTI KWIK HUS EZ CARBON STEEL SCREW ANCHORS (ICC ESR-3027 & LARR 25897) OR SIMPSON STRONG TIE "TITEN HD" (ICC-ES ESR-2713 & LARR 25714).
- AD-S2** INSTALL ANCHORS IN DRY INTERIOR APPLICATIONS ONLY.
- AD-S3** ANCHORS MAY NOT BE ATTACHED TO UNDERSIDE OF A BEAM, SLAB, OR METAL DECK W/ CONCRETE FILL.
- AD-S4** RE-USE OF SCREW ANCHORS OR SCREW ANCHOR HOLES IS NOT PERMITTED.
- AD-S5** SCREW ANCHORS SET WITH AN IMPACT WRENCH TO ALSO BE TESTED PER THE RELIABILITY TEST SECTION 8.8.2.3 OF AC 193.
- AD-S6** SCREWS TO BE TESTED PER TEST REQUIREMENTS FOR EXPANSION ANCHORS EXCEPT AS NOTED.
- A. SCREW ANCHORS MAY BE LOOSENED A MAX. OF ONE FULL TURN TO FACILITATE THE POSITIONING OF A TEST COLLAR. FOLLOWING THE TENSION TEST, THE ANCHOR SHALL BE RE-TORQUED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - B. TEST LOADS TWICE MAX. ALLOWABLE LOAD OR ONE AND QUARTER TIMES MAX. DESIGN STRENGTH OF ANCHORS AS PROVIDED IN THE ICC ESR.
 - C. TESTING WITH TORQUE WRENCH IS NOT PERMITTED.

TENSION TEST LOADS (POUNDS)				
HILTI KWIK HUS EZ (ICC ESR-3027)				
CRACKED CONCRETE SEISMIC CONDITION B				
NOMINAL ANCHOR DIA (IN)	EMBEDMENT DEPTH H _{nom} (IN)	INSTALLATION TORQUE (FT-LB)	NOMINAL WEIGHT CONCRETE (F _c = 4000 psi)	LIGHT WEIGHT CONCRETE (F _c = 4000 psi)
1/4	2 1/2	18	900	540
3/8	1 5/8	40	565	340
3/8	2 1/2	40	1670	1000
3/8	3 1/4	40	2590	1555
1/2	2 1/4	45	1230	735
1/2	3	45	2080	1248
1/2	4 1/4	45	3790	2275
5/8	3 1/4	85	2420	1450
5/8	4	85	5000	3000

- AD-M** MECHANICAL ANCHORS IN HARDENED CONCRETE
- AD-M1** EXPANSION ANCHOR SYSTEM (CONCRETE): HILTI KWIK BOLT TZ OR SIMPSON STRONG BOLT II. USE ONLY EXPANSION ANCHOR SYSTEMS THAT HAVE BEEN PRE-QUALIFIED IN ACCORDANCE WITH THE PROVISIONS OF ICC ES AC193, APPROVED FOR USE IN CRACKED CONCRETE AND RECOGNIZED WITH ANCHOR CATEGORY 1 LISTINGS. ANCHOR SYSTEMS SHALL BE INSTALLED PER THE REQUIREMENTS OF THE ICC ESR FOR THE SPECIFIC ANCHOR.
- AD-M2** UNDERCUT ANCHOR SYSTEM (CONCRETE): HILTI HDA (ICC ESR-1546). USE ONLY UNDERCUT ANCHOR SYSTEMS THAT HAVE BEEN PRE-QUALIFIED IN ACCORDANCE WITH THE PROVISIONS OF ICC ES AC193, APPROVED FOR USE IN CRACKED CONCRETE AND RECOGNIZED WITH ANCHOR CATEGORY 1 LISTINGS. ANCHOR SYSTEMS SHALL BE INSTALLED PER THE REQUIREMENTS OF THE ICC ESR FOR THE SPECIFIC ANCHOR.
- AD-M3** WHERE THE MANUFACTURER'S INSTALLATION INSTRUCTIONS OR APPLICABLE ICC ESR CALL OF THE APPLICATION OF AN INSTALLATION TORQUE SHALL BE APPLIED WITH A CALIBRATED TORQUE WRENCH. FOLLOWING ATTAINMENT OF 10% OF THE SPECIFIED TORQUE, 100% OF COMPLETE TURNS OF THE NUT. THE SPECIFIED INSTALLATION TORQUE SHALL NOT BE EXCEEDED.
- AD-M4** USE OF ZINC-COATED CARBON STEEL ANCHORS IS LIMITED TO DRY, INTERIOR LOCATIONS, UNLESS OTHERWISE NOTED. PROVIDE STAINLESS STEEL ANCHORS FOR APPLICATIONS EXPOSED TO EXTERIOR WEATHER CONDITIONS.
- AD-M5** EXPANSION ANCHORS FOR NON-VIBRATION ISOLATED MECHANICAL EQUIPMENT RATED OF 10HP ARE NOTE PERMITTED BY ASCE 7-05 SECTION 13.6.5.5. ANCHORS INSTALLED IN OVERHEAD CONDITIONS FOR NON-VIBRATION ISOLATED EQUIPMENT WITH RECIPROCATING OR ROTATING MECHANISMS SHALL BE UNDERCUT ANCHORS.
- AD-M6** WHERE MECHANICAL ANCHORS ARE USED IN A STANDOFF CONFIGURATION (I.E. WHERE THE ATTACHMENT IS SEPARATED FROM THE CONCRETE IN WHICH THE ANCHOR IS INSTALLED), A NUT AND WASHER SHALL BE PROVIDED AT THE CONCRETE SURFACE TO FACILITATE SETTING OF THE ANCHOR AND TO TRANSMIT AXIAL COMPRESSION LOADS INTO THE CONCRETE.
- AD-M7** UNDERCUT ANCHORS THAT ALLOW VISUAL CONFIRMATION OF FULL SET NEED NOT BE TESTED. UNLESS OTHERWISE NOTED BY ENFORCEMENT AGENCY OR ENGINEER OF RECORD.
- AD-M8** WHERE THE DESIGN TENSION ON ANCHORS IS LESS THAN 100 POUNDS AND THOSE ANCHORS ARE CLEARLY IDENTIFIED ON THE CONTRACT DOCUMENTS, ONLY 10% OF THOSE ANCHORS NEED TO BE TESTED, UNLESS OTHERWISE NOTED BY OSHPD OR STRUCTURAL ENGINEER OF RECORD.
- AD-M9** THE TEST LOAD MAY BE APPLIED BY ANY METHOD THAT WILL EFFECTIVELY TRANSMIT A MEASURABLE TENSION LOAD TO THE ANCHOR. ACCEPTABLE METHODS INCLUDE:
- A. USE OF A HYDRAULIC JACK WHEREBY EITHER UNCONFINED OR CONFINED TESTING SHALL BE ACCEPTABLE.
 - B. USE OF CALIBRATED SPRINGS LOADED DEVICES, OR
 - C. USE OF CALIBRATED TORQUE WRENCH FOR TORQUE-CONTROLLED EXPANSION ANCHORS.
- AD-M10** THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF INSTALLED ANCHORS:
- A. HYDRAULIC RAM METHOD: THE ANCHOR SHALL HAVE OBSERVABLE MOVEMENT AT THE APPLICABLE TEST LOAD. FOR EXPANSION ANCHORS, A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WASHER UNDER THE NUT BECOMES LOOSE.
 - B. TORQUE WRENCH METHOD: THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN ONE-HALF (1/2) TURN OF THE NUT.
- AD-M11** WHEN INSTALLING DRILLED-IN ANCHORS AND/OR POWDER DRIVEN PINS IN EXISTING NON-PRESTRESSED REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. WHEN INSTALLING THEM INTO EXISTING PRESTRESSED CONCRETE (PRE-OR POST-TENSIONED) LOCATE THE PRESTRESSED TENDONS BY USING A NON-DESTRUCTIVE METHOD PRIOR TO INSTALLATION. EXERCISE EXTREME CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE TENDONS DURING INSTALLATION. MAINTAIN WHICH EVER IS GREATER, BETWEEN THE REINFORCEMENT AND THE DRILLED-IN ANCHOR AND/OR PIN.
- AD-M12** IF REBAR:
- A. IF THE ANCHOR MAY BE SHIFTED, FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT. THE MINIMUM CLEAR SPACING BETWEEN AN ABANDONED HOLE AND A DRILLED HOLE USED FOR A POST INSTALLED ANCHOR SHALL NOT BE LESS THAN 1-1/2 ANCHOR DIAMETERS UNLESS OTHERWISE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD AND OSHPD.
 - B. IF THE ANCHOR LOCATION MAY NOT BE SHIFTED, CORE AN OVERSIZED HOLE AT THE DIRECTION OF THE ENGINEER OF RECORD AND INSTALL AN APPROVED ADHESIVE ANCHOR IN PLACE.
- AD-M13** IF THE CONCRETE CRACKS DURING THE INSTALLATION OF THE ANCHOR, THE ANCHOR SHALL BE REMOVED.
- AD-M14** POWER ACTUATED FASTENERS SHALL BE "HILTI" PER ICC ESR-2269 & LARR 26684 OR SIMPSON STRONG TIE (ICC-ES ESR-2138 & LARR 25469).

BASE MATERIAL	FASTENER TYPE	MINIMUM EMBEDMENT	MINIMUM EDGE DISTANCE
STEEL	X-U	3/8"	1/2"
CONCRETE	X-U	1"	3"

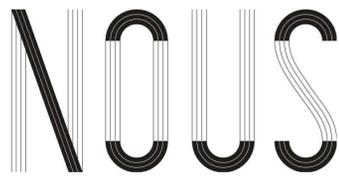
POWER ACTUATED FASTENERS SHALL BE TENSION TESTED TO TWICE THE ALLOWABLE TENSION LOAD AS LISTED IN THE ICC ESR. THE ANCHOR SHOULD HAVE NO OBSERVABLE MOVEMENT AT THE APPLICABLE TEST LOAD. TESTING IS NOT REQUIRED OF POWER ACTUATED FASTENERS USED TO ATTACH TRACKS OF INTERIOR NON-SHEAR WALL PARTITIONS FOR SHEAR ONLY, WHERE THERE ARE AT LEAST THREE FASTENERS PER SEGMENT OF TRACK. THE TEST LOAD MAY BE APPLIED BY ANY METHOD THAT WILL EFFECTIVELY MEASURE THE TENSION IN THE FASTENER, SUCH AS DIRECT PULL WITH A HYDRAULIC JACK, CALIBRATED SPRING LOADED DEVICES, ETC.

- AD-M15** REQUIRED TEST LOADS SHALL BE DETERMINED AS THE LESSER OF 1.25 TIMES THE MAXIMUM DESIGN STRENGTH AS PROVIDED IN THE ICC ESR FOR THE SPECIFIC ANCHOR OR 80% OF THE NOMINAL YIELD STRENGTH OF THE ANCHOR ELEMENT, AS SUMMARIZED IN THE TABLES BELOW (NOTE: HILTI HDA UNDERCUT ANCHORS CAN BE EXEMPT FROM PROOF LOADING REQUIREMENTS WITH VISUAL CONFIRMATION):

TENSION TEST LOADS (POUNDS)				
HILTI KWIK HUS EZ (ICC ESR-3027)				
CRACKED CONCRETE SEISMIC CONDITION B				
NOMINAL ANCHOR DIA (IN)	EMBEDMENT DEPTH H _{ef} (IN)	INSTALLATION TORQUE (FT-LB)	NOMINAL WEIGHT CONCRETE (F _c = 4000 psi)	LIGHT WEIGHT CONCRETE (F _c = 5000 psi)
3/8"	2	25	1750	
1/2"	2	40	1850	
1/2"	3 1/4	40	3780	
5/8"	3 1/8	60	3620	
5/8"	4	60	5240	
3/4"	3 3/4	110	4760	
3/4"	4 3/4	110	6780	

TENSION TEST LOADS (POUNDS)				
HILTI KWIK HUS EZ (ICC ESR-3027)				
CRACKED CONCRETE SEISMIC CONDITION B				
NOMINAL ANCHOR DIA (IN)	EMBEDMENT DEPTH H _{ef} (IN)	INSTALLATION TORQUE (FT-LB)	NOMINAL WEIGHT CONCRETE (F _c = 4000 psi)	LIGHT WEIGHT CONCRETE (F _c = 4000 psi)
3/8"	1 1/2	30	700	900

TENSION TEST LOADS (POUNDS)				
HILTI KWIK HUS EZ (ICC ESR-3027)				
CRACKED CONCRETE SEISMIC CONDITION B				
NOMINAL ANCHOR DIA (IN)	EMBEDMENT DEPTH H _{ef} (IN)	INSTALLATION TORQUE (FT-LB)	NOMINAL WEIGHT CONCRETE (F _c = 4000 psi)	LIGHT WEIGHT CONCRETE (F _c = 4000 psi)
M10	3.94	37	6821	
M12	4.92	59	8664	
M16	7.48	84	17328	
M20	9.84	221	25993	



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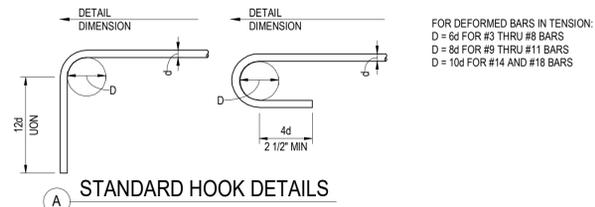
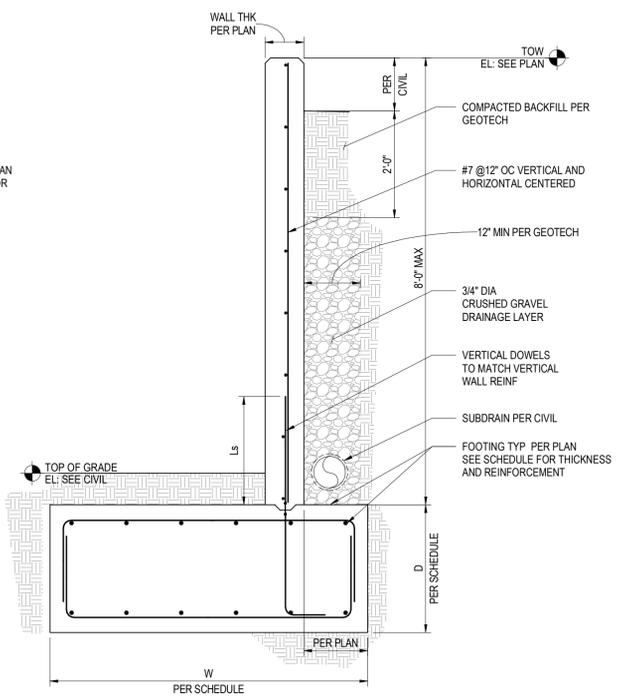
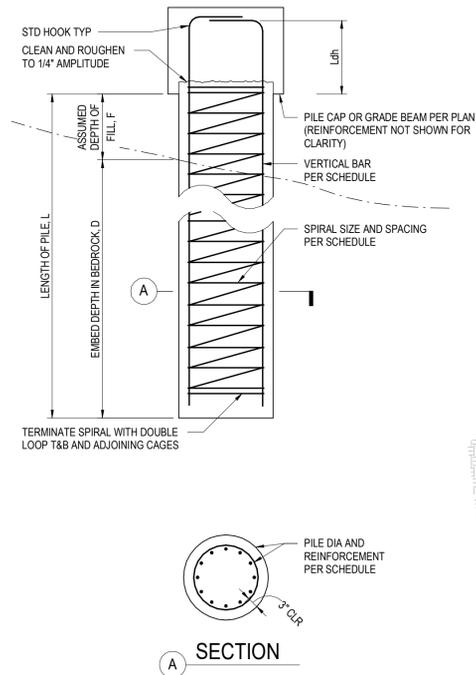
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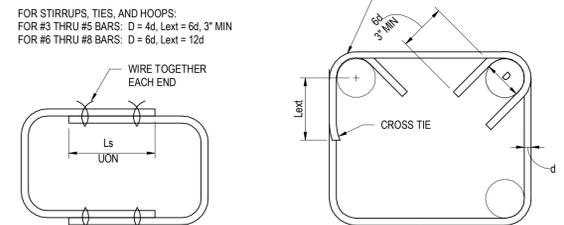
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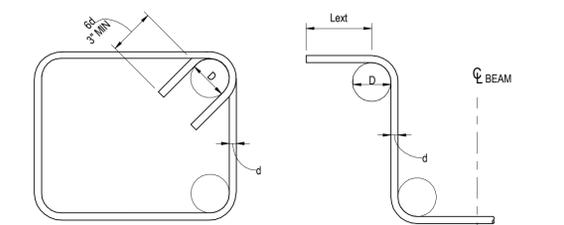
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A STANDARD HOOK DETAILS



B TIE LAP DETAIL



C SPANDEL & BEAM SUPPLEMENTARY TIE



D COLUMN & SPANDEL TIE



E BEAM & JOIST STIRRUP

FOR DEFORMED BARS IN TENSION:
D = 6d FOR #3 THRU #8 BARS
D = 8d FOR #9 THRU #11 BARS
D = 10d FOR #14 AND #18 BARS

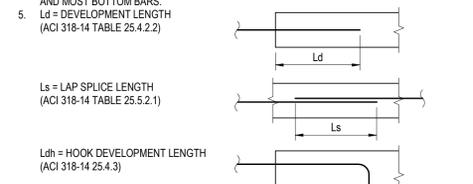
FOR STIRRUPS, TIES, AND HOOPS:
FOR #3 THRU #5 BARS: D = 4d, Lext = 6d, 3\"/>

CONDITION	CONC TYPE	CONCRETE REINFORCING DEVELOPMENT & SPLICE LENGTHS (IN) FOR $f_c = 5.0$ KSI																							
		#3				#4				#5				#6				#7				#8			
		Ld	Ls	Ldh	Ld	Ls	Ldh	Ld	Ls	Ldh	Ld	Ls	Ldh	Ld	Ls	Ldh	Ld	Ls	Ldh	Ld	Ls	Ldh			
THICKNESS OF FRESH CONCRETE PLACED BELOW HORIZONTAL REINFORCEMENT > 12"																									
A & B	NWC	17	22	6	22	29	8	28	36	11	33	43	13	48	63	15	55	72	17						
C	NWC	25	32	6	33	43	8	41	54	11	50	65	13	72	94	15	83	108	17						
THICKNESS OF FRESH CONCRETE PLACED BELOW HORIZONTAL REINFORCEMENT ≤ 12"																									
A & B	NWC	13	17	6	17	22	8	21	28	11	25	33	13	37	48	15	42	55	17						
C	NWC	19	25	6	25	33	8	32	41	11	38	50	13	56	72	15	64	83	17						

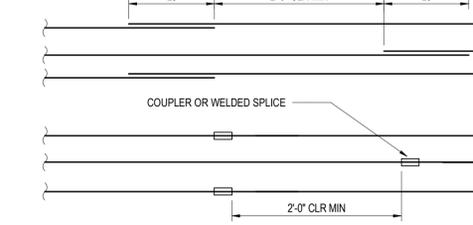
CONDITION	CONC TYPE	CONCRETE REINFORCING DEVELOPMENT & SPLICE LENGTHS (IN) FOR $f_c = 4.0$ KSI																							
		#3				#4				#5				#6				#7				#8			
		Ld	Ls	Ldh	Ld	Ls	Ldh	Ld	Ls	Ldh	Ld	Ls	Ldh	Ld	Ls	Ldh	Ld	Ls	Ldh	Ld	Ls	Ldh			
THICKNESS OF FRESH CONCRETE PLACED BELOW HORIZONTAL REINFORCEMENT > 12"																									
A & B	NWC	18	24	7	25	32	9	31	40	12	37	48	14	54	70	17	62	80	19						
C	NWC	28	36	7	37	48	9	46	60	12	55	72	14	81	105	17	92	120	19						
THICKNESS OF FRESH CONCRETE PLACED BELOW HORIZONTAL REINFORCEMENT ≤ 12"																									
A & B	NWC	14	18	7	19	25	9	24	31	12	28	37	14	42	54	17	47	62	19						
C	NWC	21	28	7	28	37	9	36	46	12	43	55	14	62	81	17	71	92	19						

CONDITION	CONC TYPE	CONCRETE REINFORCING DEVELOPMENT & SPLICE LENGTHS (IN) FOR $f_c = 3.0$ KSI																																			
		#3				#4				#5				#6				#7				#8				#9				#10				#11			
		Ld	Ls	Ldh	Ld	Ls	Ldh	Ld	Ls	Ldh	Ld	Ls	Ldh	Ld	Ls	Ldh	Ld	Ls	Ldh	Ld	Ls	Ldh	Ld	Ls	Ldh	Ld	Ls	Ldh	Ld	Ls	Ldh						
THICKNESS OF FRESH CONCRETE PLACED BELOW HORIZONTAL REINFORCEMENT > 12"																																					
A & B	NWC	21	28	8	28	37	11	36	46	14	43	56	16	62	81	19	71	93	22	80	104	25	90	118	28	100	131	31									
C	NWC	32	42	8	43	56	11	53	69	14	64	83	16	93	121	19	107	139	22	120	157	25	136	176	28	151	196	31									
THICKNESS OF FRESH CONCRETE PLACED BELOW HORIZONTAL REINFORCEMENT ≤ 12"																																					
A & B	NWC	16	21	8	22	28	11	27	36	14	33	43	16	48	62	19	55	71	22	62	80	25	70	90	28	77	100	31									
C	NWC	25	32	8	33	43	11	41	53	14	49	64	16	72	93	19	82	107	22	93	120	25	104	136	28	116	151	31									

- NOTES:
- YIELD STRENGTH OF REINFORCEMENT = 60 KSI
 - UNCOATED OR ZINC-COATED (GALVANIZED) REINFORCEMENT
 - VALUES SHOWN FOR NORMAL WEIGHT CONCRETE ONLY, MULTIPLY BY 1.3 FOR LIGHTWEIGHT.
 - MORE THAN 12" OF CONCRETE CAST BELOW THE BARS ARE MOST TOP BARS, LESS THAN 12" OF CONCRETE CAST BELOW HORIZONTAL BARS ARE ALL VERTICAL BARS AND MOST BOTTOM BARS MORE THAN 12" OF CONCRETE CAST BELOW THE BARS ARE MOST TOP BARS, LESS THAN 12" OF CONCRETE CAST BELOW HORIZONTAL BARS ARE ALL VERTICAL BARS AND MOST BOTTOM BARS.
 - Ld = DEVELOPMENT LENGTH (ACI 318-14 TABLE 25.4.2.2)

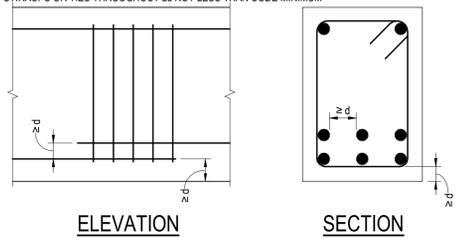


- WHEN SPLICING BARS OF DIFFERENT SIZE, USE LAP SPLICE LENGTH OF LARGER BAR, UON.
- STAGGER SPLICES AS INDICATED ON DRAWINGS.

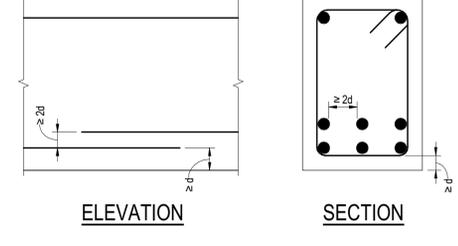


- NOTE: WHERE COUPLER OR WELDED SPLICE CAN DEVELOP 125% OF THE YIELD STRENGTH OF THE REINFORCING BAR, STAGGERING OF THE SPLICES IS NOT REQUIRED.
- Ls VALUES MAY BE REDUCED IF CLASS A SPLICE IS USED, SEE ACI 318-14 TABLE 25.5.2.1
 - Ldh VALUES MAY BE REDUCED, SEE ACI 318-14 25.4.3
- NOTE: TABULATED VALUES FOR BEAMS OR COLUMNS ARE BASED ON TRANSVERSE REINFORCEMENT MEETING MINIMUM CODE REQUIREMENTS.

CONDITION A
CLEAR SPACING OF BARS OR WIRES BEING DEVELOPED OR LAP SPLICED ≥ d.
STIRRUPS OR TIES THROUGHOUT Ld NOT LESS THAN CODE MINIMUM

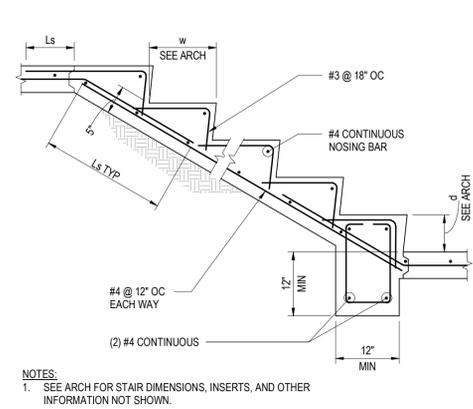


CONDITION B
CLEAR SPACING OF BARS OR WIRES BEING DEVELOPED OR LAP SPLICED ≥ 2d, CLEAR COVER ≥ d



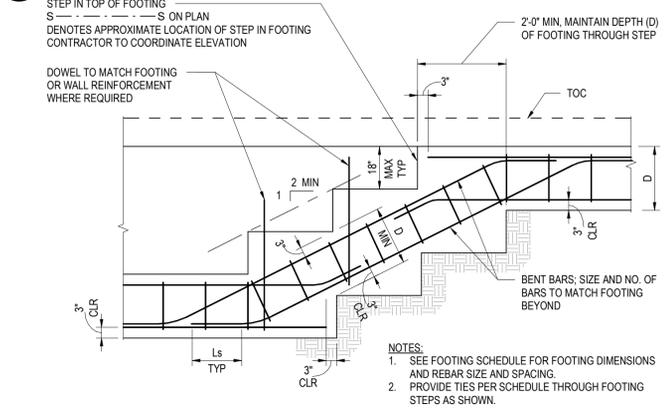
CONDITION C
OTHER CASES

14 FRICTION PILE
NOT TO SCALE



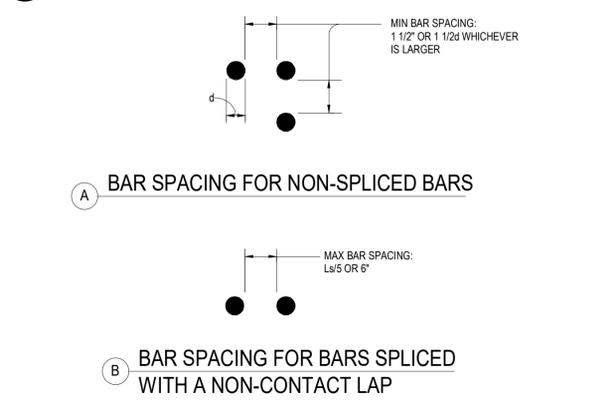
- NOTES:
- SEE ARCH FOR STAIR DIMENSIONS, INSERTS, AND OTHER INFORMATION NOT SHOWN.

11 CANTILEVER SITE RETAINING WALL
NOT TO SCALE



- NOTES:
- SEE FOOTING SCHEDULE FOR FOOTING DIMENSIONS AND REBAR SIZE AND SPACING.
 - PROVIDE TIES PER SCHEDULE THROUGH FOOTING STEPS AS SHOWN.

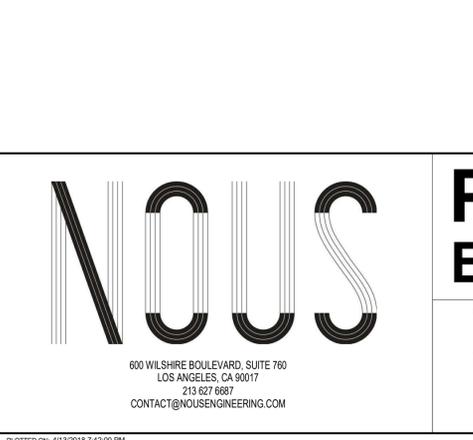
8 BAR BENDING DETAIL
NOT TO SCALE



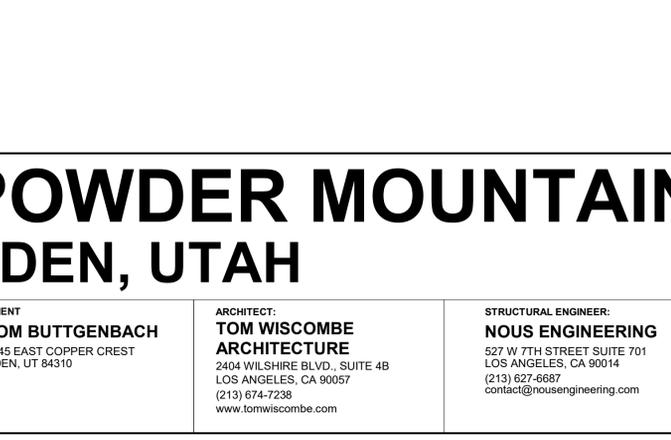
A BAR SPACING FOR NON-SPLICED BARS

B BAR SPACING FOR BARS SPLICED WITH A NON-CONTACT LAP

15 STAIR ON GRADE
NOT TO SCALE



12 STEPS IN CONTINUOUS FOOTING
NOT TO SCALE



9 BAR SPACING IN CONCRETE
NOT TO SCALE



6 REINFORCING DEVELOPMENT & SPLICE LENGTHS
NOT TO SCALE

REVISIONS:

DESCRIPTION:	BY:	DATE:

NOT FOR CONSTRUCTION

HILLSIDE REVIEW

SCALE: AS NOTED

DATE: 3/16/2018

DRAWN: Author

CHECKED: Checker

SHEET: S0.10

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POWDER MOUNTAIN HOUSE

EDEN, UTAH

CLIENT: **TOM BUTTGENBACH**
8645 EAST COPPER CREST
EDEN, UT 84310

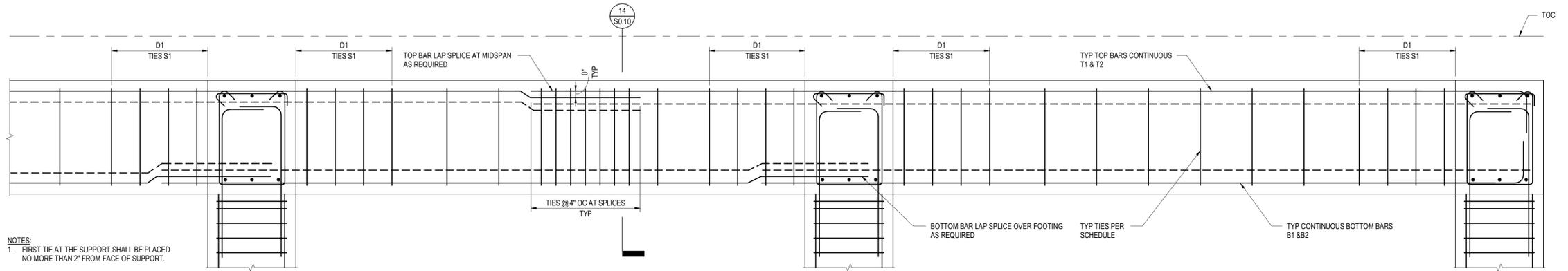
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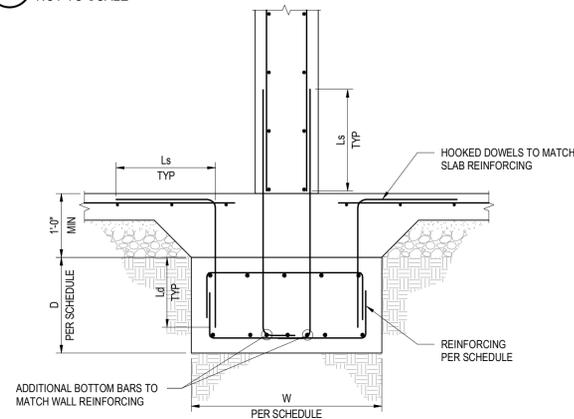
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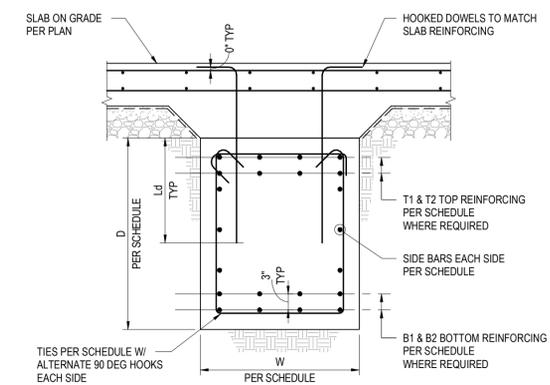




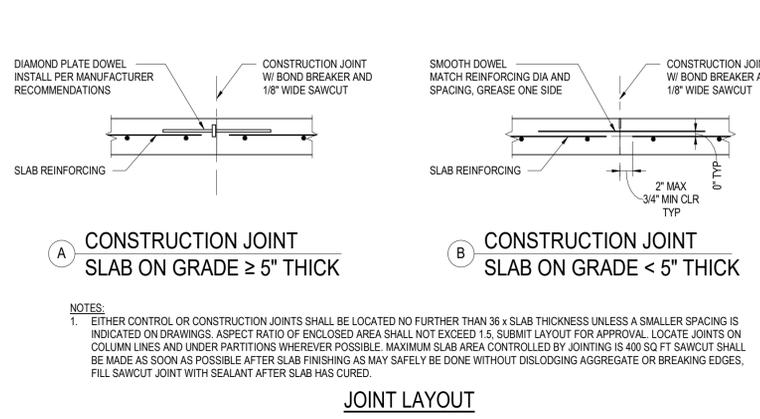
10 PILE GRADE BEAM REINFORCING ELEVATION
NOT TO SCALE



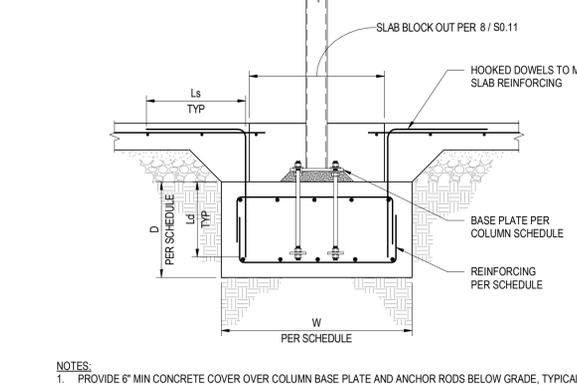
11 CONCRETE WALL CONTINUOUS FOOTING
NOT TO SCALE



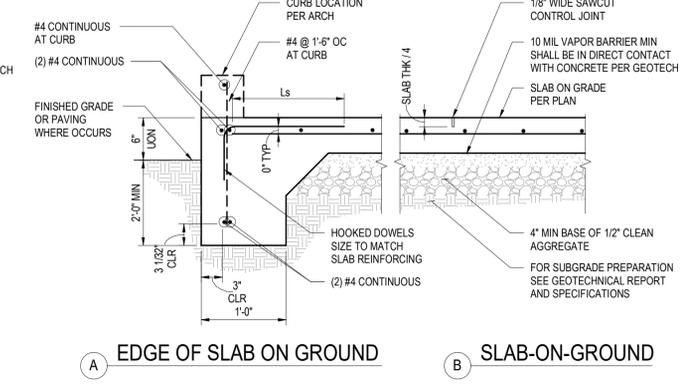
12 INTERIOR GRADE BEAM
NOT TO SCALE



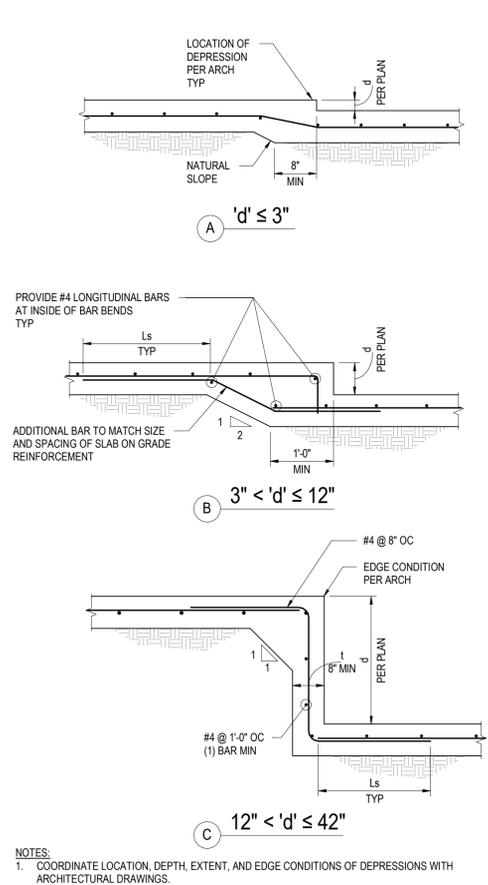
8 SLAB ON GRADE CONSTRUCTION JOINT AND BLOCKOUT PREPARATION
NOT TO SCALE



9 STEEL COLUMN CONTINUOUS FOOTING
NOT TO SCALE



6 SLAB ON GRADE & CONTROL JOINT
NOT TO SCALE



3 SLAB ON GRADE DEPRESSION
NOT TO SCALE

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POWDER MOUNTAIN HOUSE

EDEN, UTAH

CLIENT TOM BUTTGENBACH 8645 EAST COPPER CREST EDEN, UT 84310	ARCHITECT: TOM WISCOMBE ARCHITECTURE 2404 WILSHIRE BLVD., SUITE 4B LOS ANGELES, CA 90057 (213) 674-7238 www.tomwiscombe.com	STRUCTURAL ENGINEER: NOUS ENGINEERING 527 W 7TH STREET SUITE 701 LOS ANGELES, CA 90014 (213) 627-6887 contact@nousengineering.com	CIVIL ENGINEERING: TALISMAN CIVIL CONSULTANTS 5217 SOUTH STATE ST., SUITE 200 MURRAY, UT 84107 (801) 743-1300 www.talismancivil.com	GEOTECHNICAL: GEOENVIRONMENTAL SERVICES 12429 SOUTH 300 EAST, SUITE 100 DRAPER, UTAH 84020-8770 (801) 743-4044 www.igesinc.com
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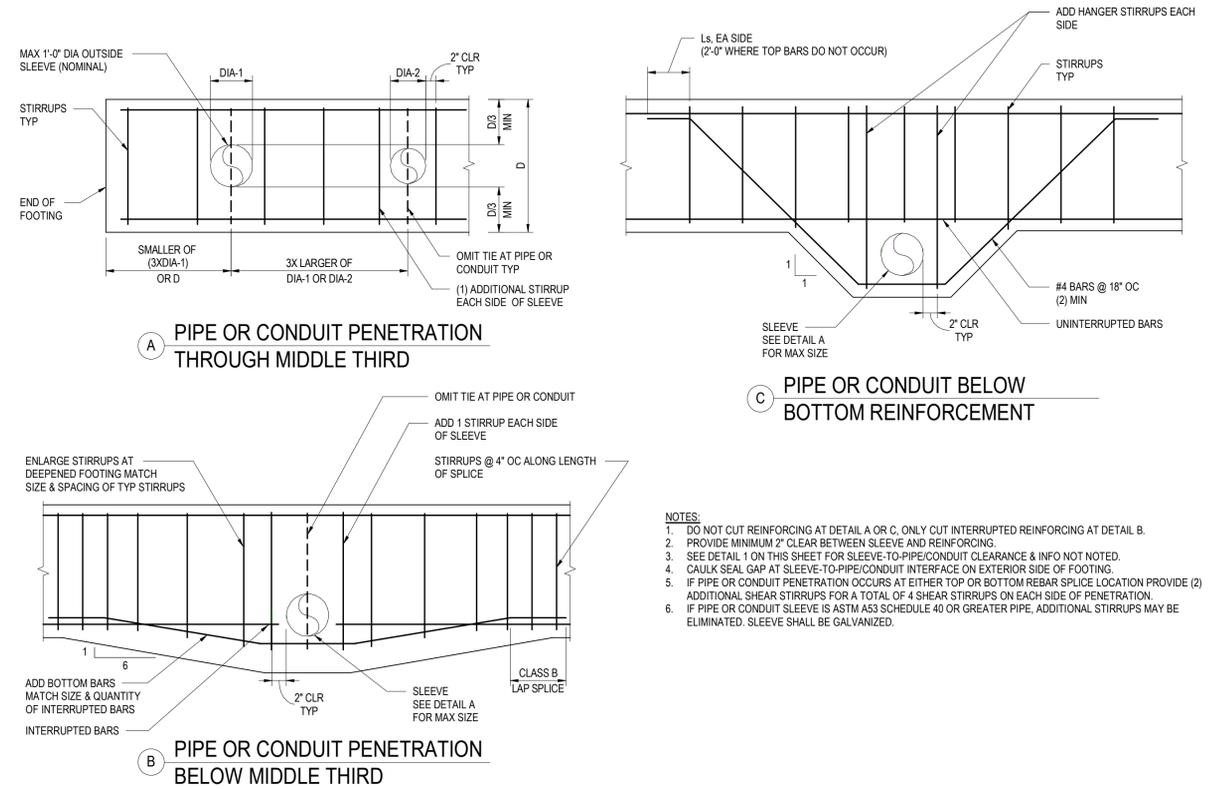
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REVISIONS:

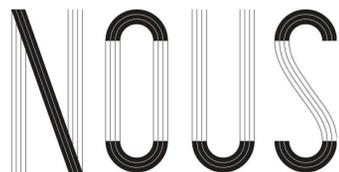
DESCRIPTION:	BY:	DATE:

HILLSIDE REVIEW

SCALE: AS NOTED	DATE: 3/16/2018
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TYPICAL CONCRETE DETAILS	SHEET: S0.11



5 PIPE OR CONDUIT PENETRATIONS THRU CONTINUOUS FOOTINGS
NOT TO SCALE



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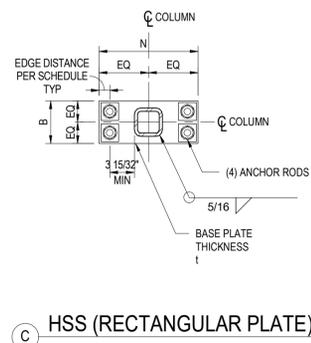
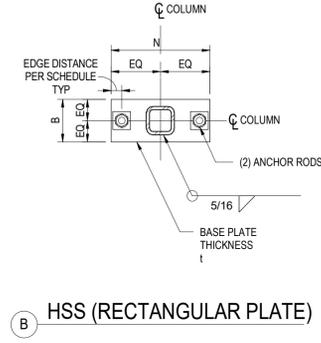
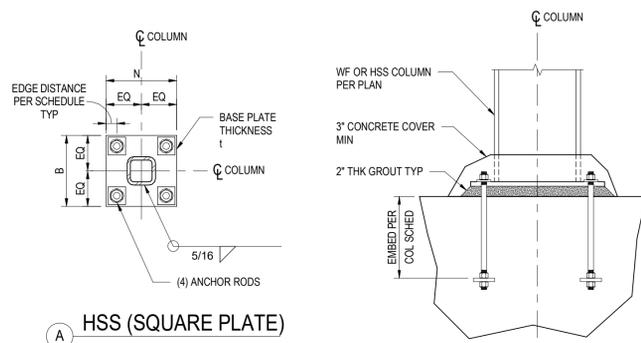
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SHEET: S0.12	



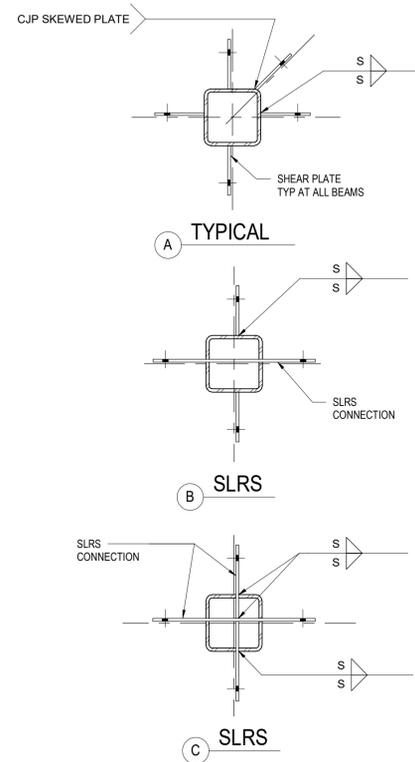
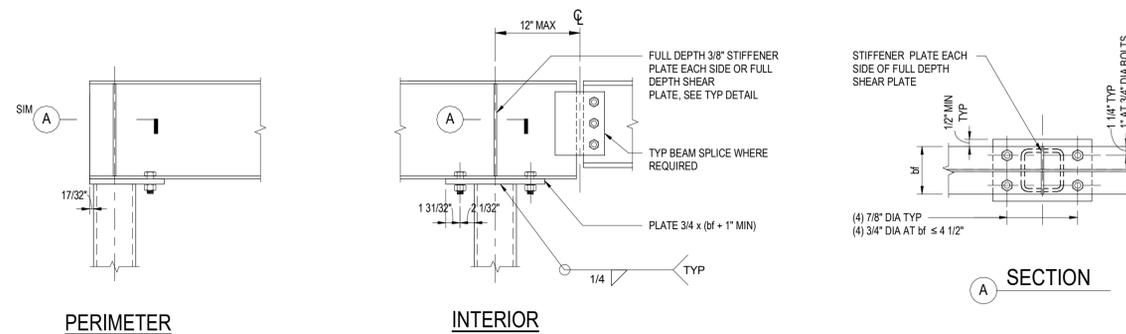
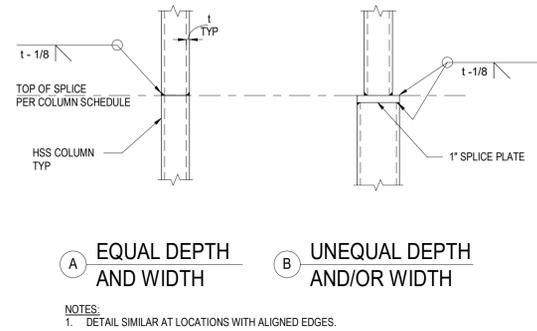
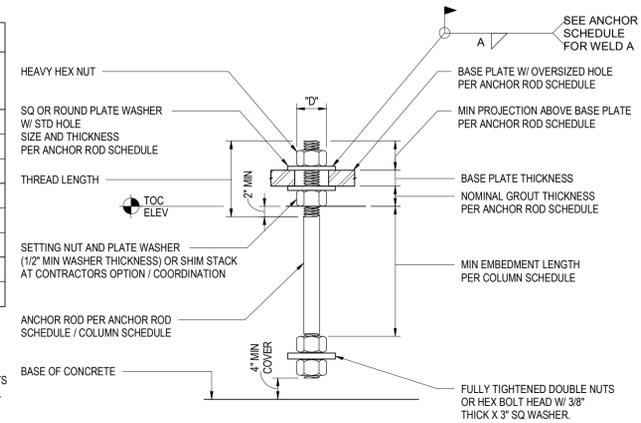
TYPICAL EDGE DISTANCE SCHEDULE	
ANCHOR ROD DIA	EDGE DISTANCE
3/4"	1 1/2"
7/8"	2"
1"	2 1/4"
1 1/4"	2 3/8"
1 1/2"	2 5/8"
1 3/4"	3"
2"	3 1/2"
2 1/2"	4"

- NOTES:**
1. BASE PLATE SIZE, THICKNESS AND ANCHOR RODS PER COLUMN SCHEDULE
 2. ANCHOR RODS, OVERSIZED HOLE AND WASHER REQUIREMENTS PER TYPICAL ANCHOR ROD DETAIL.

ANCHOR ROD SCHEDULE								
MARK	ANCHOR ROD DIA	MAX ANCHOR ROD HOLE DIA D*	MIN WASHER SIZE	MIN WASHER THICKNESS	MIN PROJECTION ABOVE BASE PLATE	NOMINAL GROUT THICKNESS	WELD A	REMARKS
A	3/4"	1 5/16"	2"	1/4"	3"	2"	1/4	
B	7/8"	1 9/16"	2 1/2"	5/16"	3 1/2"	2"	1/4	
C	1"	1 13/16"	3"	3/8"	3 1/2"	2"	1/4	
D	1 1/4"	2 1/16"	3"	1/2"	4"	2"	3/8	
E	1 1/2"	2 5/16"	3 1/2"	1/2"	4"	2"	3/8	
F	1 3/4"	2 3/4"	4"	5/8"	5"	2"	1/2	
G	2"	3 1/4"	5"	3/4"	5"	2"	1/2	
H	2 1/2"	3 3/4"	5 1/2"	7/8"	5 1/2"	2"	3/4	

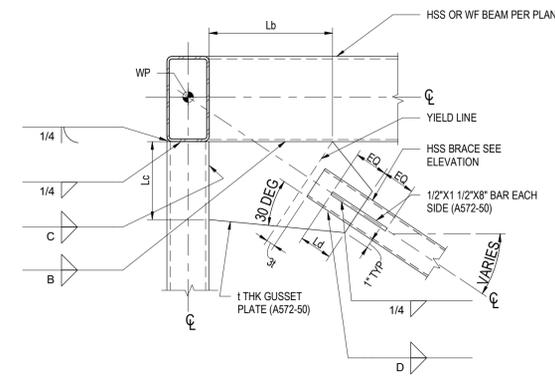
- NOTES:**
1. WHERE WELD A IS NOT SHOWN, TACK-WELD AS REQUIRED FOR ERECTION.
 2. D* = RECOMMENDED MAXIMUM ANCHOR ROD HOLE DIAMETER PER AISC TABLE 14-2
 3. CIRCULAR OR SQUARE WASHERS MEETING THE WASHER SIZE ARE ACCEPTABLE.
 4. CLEARANCE MUST BE CONSIDERED WHEN CHOOSING AN APPROPRIATE ANCHOR ROD HOLE LOCATION. NOTING EFFECTS SUCH AS POSITION OF THE ROD IN THE HOLE WITH RESPECT TO THE COLUMN, WELD SIZE, AND OTHER INTERFERENCES.
 5. WHEN BASE PLATES ARE LESS THAN 1 1/4" THICK, PUNCHING OF HOLES MAY BE AN ECONOMICAL OPTION. IN THIS CASE, 3/4" ANCHOR RODS AND 1 1/16" DIAMETER PUNCHED HOLES MAY BE USED WITH ASTM F844 (USS STANDARD) WASHER IN PLACE OF FABRICATED PLATE WASHERS.

7 ANCHOR ROD DETAIL AND SCHEDULE
NOT TO SCALE

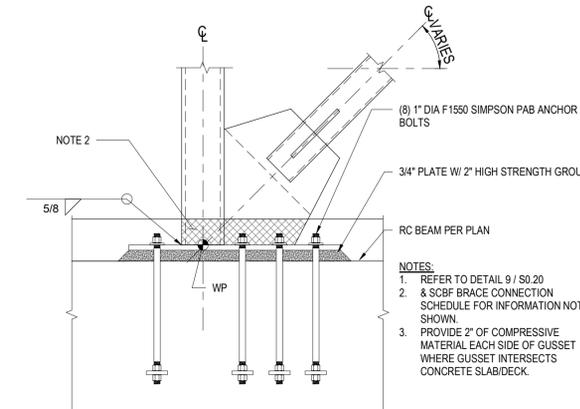


15 STEEL COLUMN BASE PLATES
NOT TO SCALE

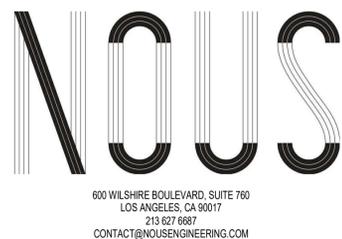
9 SCBF CONNECTION
NOT TO SCALE



6 SCBF BASE CONNECTION AT CONCRETE
NOT TO SCALE



3 BEAM TO HSS COLUMN CONNECTION
NOT TO SCALE



**POWDER MOUNTAIN HOUSE
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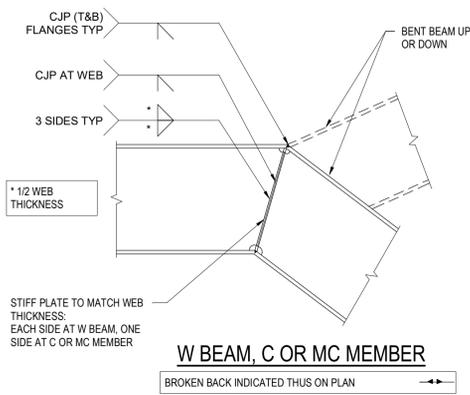
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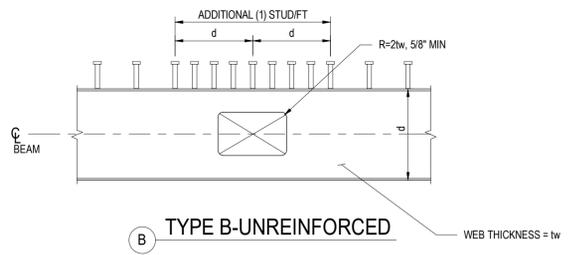
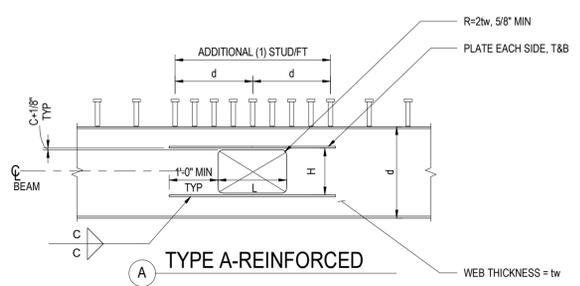
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SHEET: TYPICAL STEEL DETAILS	S0.20



13 TYPICAL BEAM BROKEN BACK CONNECTIONS

NOT TO SCALE

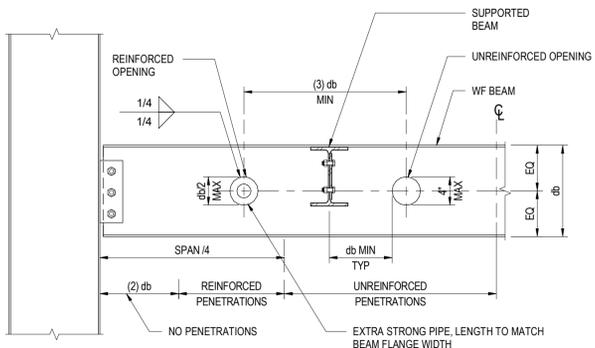


- NOTES:
1. FOR OPENING SIZE HxL, LOC AND TYPE, SEE PLAN.
2. DETAILS SIMILAR AT CIRCULAR OPENINGS.
3. CENTER OPENING IN WEB UON ON PLAN.

BEAM PENETRATION SCHEDULE			
TYPE	PLATE SIZE	C	COMMENTS
A	PLATE 3/4"x2"	1/4"	
B	NOT REQD	-	

11 RECTANGULAR HOLE PENETRATION IN BEAM WEB

NOT TO SCALE



- NOTES:
1. COORDINATE BEAM PENETRATION LOCATIONS WITH OTHER DISCIPLINES.
2. SUBMIT BEAM PENETRATIONS NOT SPECIFICALLY LOCATED ON THE STRUCTURAL DRAWINGS FOR APPROVAL.

12 ROUND HOLE PENETRATION IN BEAM WEB

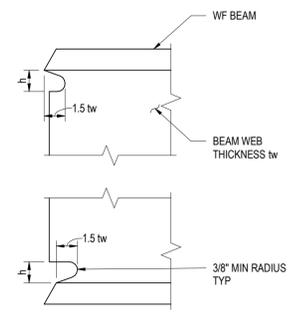
NOT TO SCALE

DEPTH OR SIZE OF SMALLER BEAM	ONE ROW OF BOLTS			TWO ROWS OF BOLTS		
	NO OF BOLTS, A325N UON	SHEAR PLATE	WELD SIZE S	NO OF BOLTS PER ROW, 7/8" DIA A325SSC UON	SHEAR PLATE	WELD SIZE S
9", 10"	(2) 7/8" DIA	3/8"	1/4"	2	5/8"	7/16"
12", 14", C12, MC12	(3) 7/8" DIA	3/8"	1/4"	3	5/8"	7/16"
16"	(4) 7/8" DIA	3/8"	1/4"	4	5/8"	7/16"
18"	(4) 7/8" DIA	3/8"	1/4"	4	5/8"	7/16"
21"	(5) 7/8" DIA	3/8"	1/4"	5	5/8"	7/16"
24"	(6) 7/8" DIA	3/8"	1/4"	6	5/8"	7/16"
27"	(7) 7/8" DIA	1/2"	5/16"	7	5/8"	7/16"
30"	(8) 7/8" DIA	1/2"	5/16"	8	5/8"	7/16"
33" AND LARGER	(9) 7/8" DIA	1/2"	5/16"	9	5/8"	7/16"

- NOTES:
1. USE LARGER WELDS OR COMPLETE PENETRATION WELDS AT ALL SKEWED CONNECTIONS PER TYP DETAILS.
2. MARKS **2** ON PLANS INDICATES 2 ROWS OF BOLTS. EACH ROW TO HAVE THE NUMBER OF BOLTS IN THE TABLE ABOVE. SPACE ROWS AT 3" OC.
3. MARKS **F** ON PLANS INDICATES FLANGE BRACE PER 3 / S0 22
4. MARKS **T** ON PLANS INDICATES WELDED TOP FLANGE PER TYPICAL DETAILS.
5. DEPTH OR SIZE CORRESPONDS TO THE SMALLEST BEAM, SEE TYPICAL DETAILS.
6. PROVIDE SLIP CRITICAL CONNECTIONS AT ALL SLRS FRAMING.

8 BEAM CONNECTION SCHEDULE

NOT TO SCALE



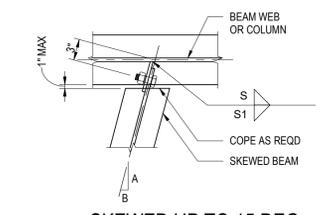
- NOTES:
1. tw IS THE BEAM WEB THICKNESS.
2. h = 1.5 tw, BUT NOT LESS THAN 1", NOR GREATER THAN 2"

9 WELD ACCESS HOLES AT WF BEAMS

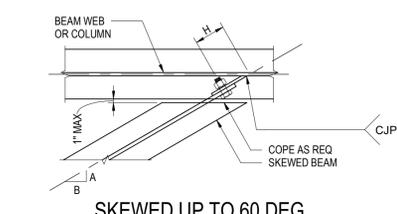
NOT TO SCALE

SKEWED UP TO 15 DEG			
A	B	WELD SIZE S1	
12	UP TO 1 5/8"	3/8" SHEAR PLATE	1/2" SHEAR PLATE
12	OVER 1 5/8" TO 2 1/8"	S = 1/16	S = 1/16
12	OVER 2 1/8" TO 3 1/4"	S = 1/8	S = 1/8

- NOTES:
1. FOR WELD SIZE S, BOLTS AND SHEAR PLATE, SEE BEAM CONNECTION SCHEDULE AND TYPICAL BEAM DETAILS.
2. FOR OTHER SKEWED BEAM CONDITIONS, PROVIDE COMPLETE JOINT PENETRATION WELDS PER LARGE SKEW DETAIL.

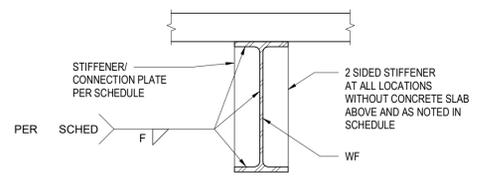


SKEWED UP TO 60 DEG			
A	B	H	
12	UP TO 9"	3" MAX	
12	OVER 9 TO 10	3 1/8"	
12	OVER 10 TO 11	3 1/4"	
12	OVER 11 TO 12	3 3/8"	
UNDER 12 TO 11	12	3 5/8"	
UNDER 11 TO 10	12	3 3/4"	
UNDER 10 TO 9	12	4"	
UNDER 9 TO 8	12	4 1/4"	
UNDER 8 TO 7	12	4 3/4"	



5 SKEWED BEAM CONNECTION - LARGE SKEWS

NOT TO SCALE

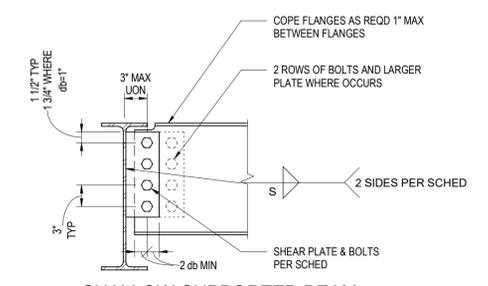


LOCATION	PLATE SIZE	WELD SIZE F	# OF PLATES
W12 & SMALLER	1/4"	1/8"	(1) SIDED
W18 THRU W14	3/8"	3/16"	(2) SIDED
W36 THRU W21	1/2"	1/4"	(2) SIDED
STAIR STRINGER CONNECTIONS	3/8"	3/16"	(2) SIDED

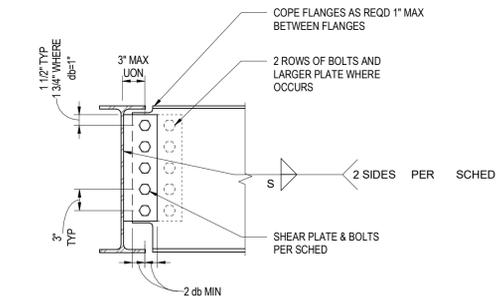
- NOTES:
1. USE THIS DETAIL WHERE PLATES OR STIFFENERS ARE SHOWN BUT NOT DETAILED.
2. WELD TO BE MAX OF AWS MIN AND SCHEDULE SIZE.

6 STIFFENER CONNECTION PLATE

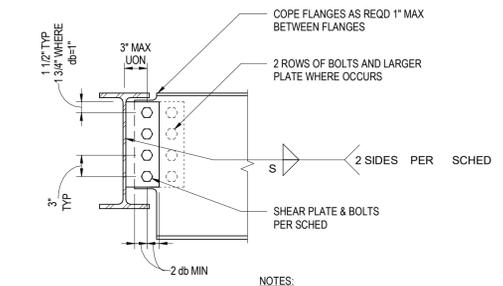
NOT TO SCALE



A SHALLOW SUPPORTED BEAM

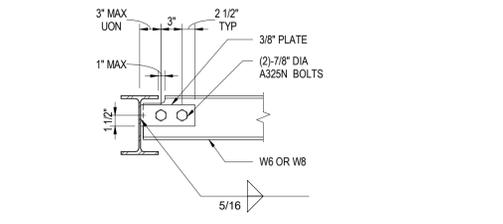


B EQUAL DEPTH BEAMS



- NOTES:
1. db DENOTES BOLT DIA.
2. FOR INFO NOT SHOWN SEE BEAM CONNECTION SCHEDULE

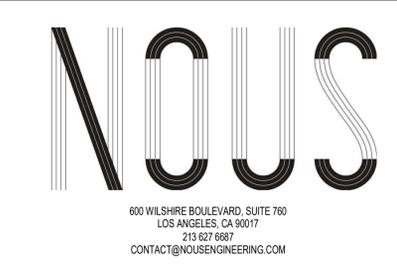
C DEEP SUPPORTED BEAM



D SHALLOW (d < 8") SUPPORTED BEAM

3 BEAM TO BEAM CONNECTION

NOT TO SCALE



POWDER MOUNTAIN HOUSE EDEN, UTAH

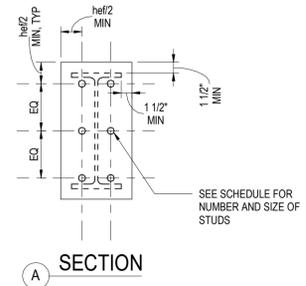
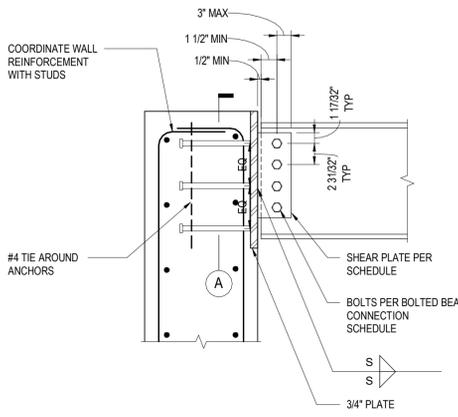
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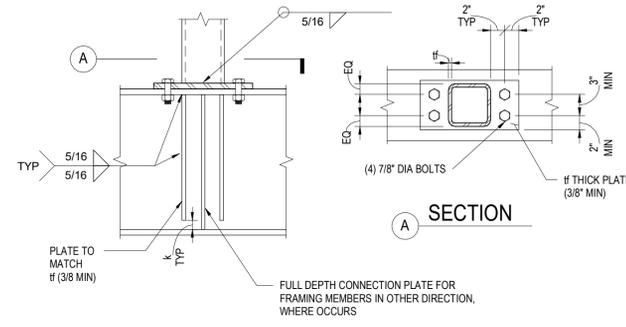
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DESCRIPTION:	BY:	DATE:

HILLSIDE REVIEW			
SCALE:	DATE:		
AS NOTED	3/16/2018		
	DRAWN:	CHECKED:	
	Author	Checker	
TYPICAL STEEL DETAILS	SHEET:	S0.21	



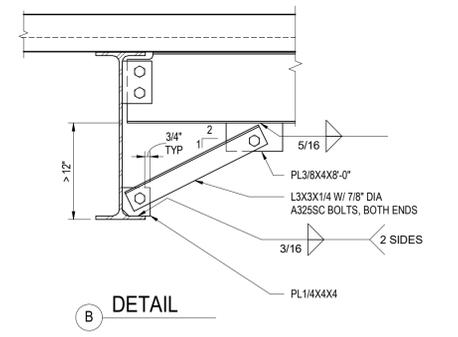
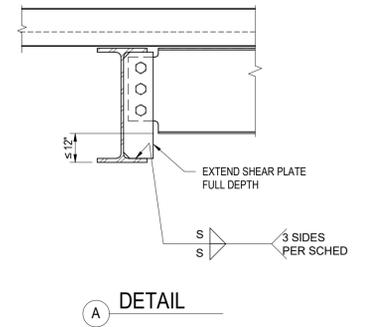
MEMBER SIZE	# OF STUDS	STUD, d	EMBED, hef
[DEFINE]	4	3/4"	6"
[DEFINE]	6	1"	8"

NOTES:
 1. SEE BOLTED BEAM CONN SCHEDULE FOR INFO NOT SHOWN.
 2. hef MIN = 7.5d



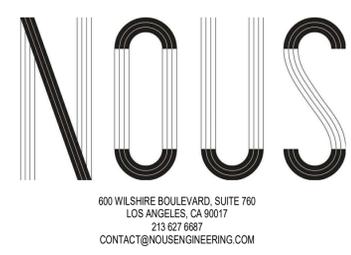
7 BEAM TO CONC WALL EMBED PLATE CONN
 NOT TO SCALE

1 NON-FRAME TRANSFER GIRDER (HSS)
 NOT TO SCALE



NOTES:
 1. SUPPORT BOTTOM FLANGE W/ SHEAR PLATE OR BRACE WHERE SHOWN THUS:  ON PLAN.
 2. FOR INFO NOT SHOWN OR NOTED, SEE BEAM CONNECTION SCHEDULE AND TYPICAL STEEL BEAM DETAILS.

3 FLANGE BRACE
 NOT TO SCALE



POWDER MOUNTAIN HOUSE

EDEN, UTAH

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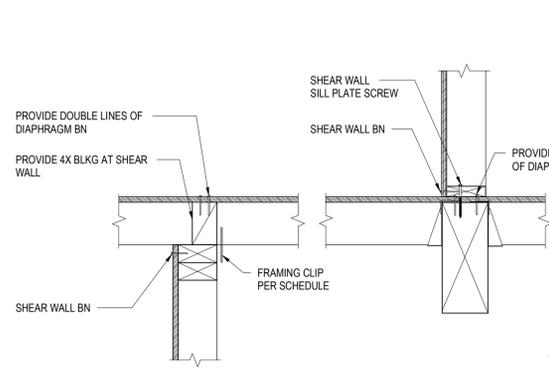
NOT FOR CONSTRUCTION

REVISIONS:

DESCRIPTION:	BY:	DATE:

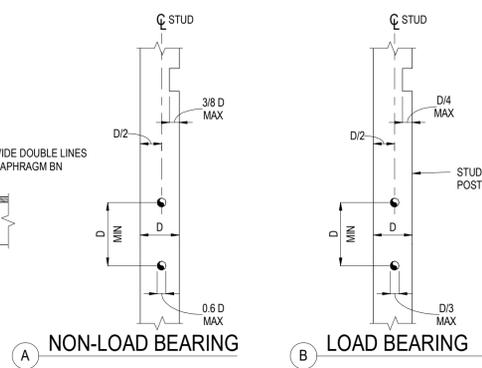
HILLSIDE REVIEW

SCALE: AS NOTED	DATE: 3/16/2018
DRAWN: Author	CHECKED: Checker
TYPICAL STEEL DETAILS	SHEET: S0.22



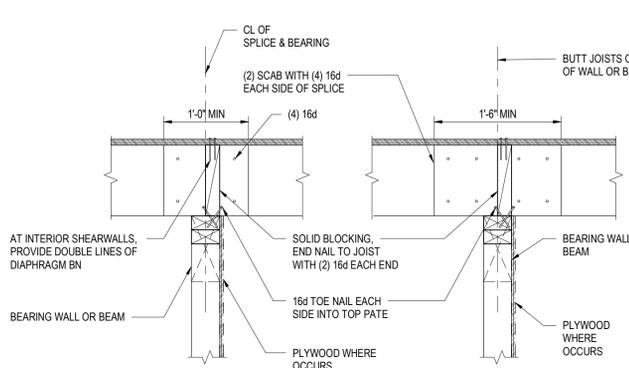
NOTE:
1. SEE SCHEDULES FOR FASTENER INFORMATION.

13 SHEAR WALL HORIZONTAL OFFSET
NOT TO SCALE



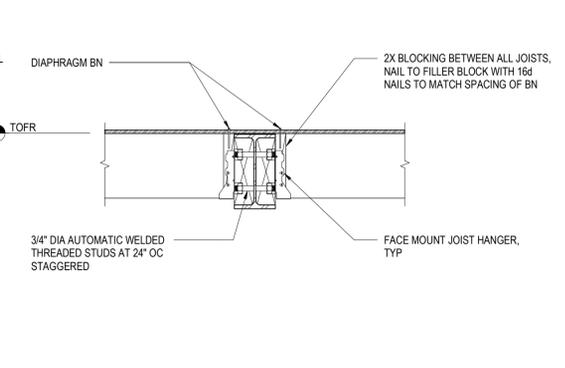
NOTES:
1. NOTCHING OF MEMBER IS NOT PERMITTED WITHOUT WRITTEN APPROVAL FROM THE OWNER'S REPRESENTATIVE.
2. DO NOT PLACE HOLES IN MEMBERS WITH HOLDOWN ANCHORS.
3. BORED HOLES SHALL NOT BE LOCATED AT THE SAME SECTION OF STUD AS A NOTCH.

10 HOLES AND NOTCHES IN STUDS OR POSTS
NOT TO SCALE

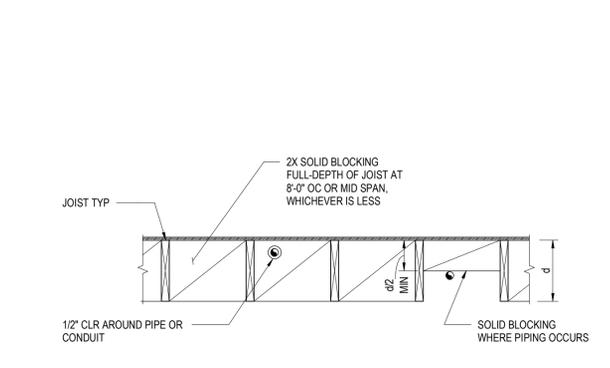


NOTE:
1. DETAIL SIMILAR FOR DOUBLED UP MEMBERS.

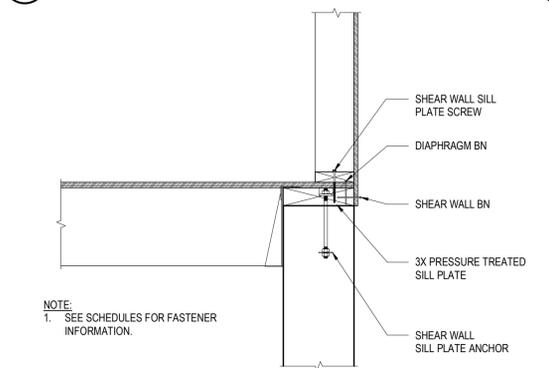
7 JOIST SPLICE AT BEARING WALLS OR BEAMS
NOT TO SCALE



4 JOIST PERPENDICULAR TO STEEL BEAM SIDE NAILER
NOT TO SCALE

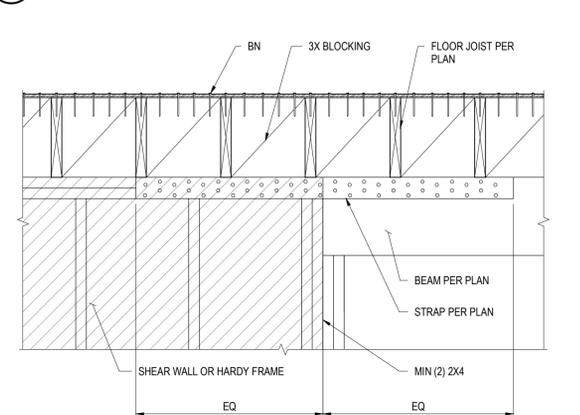


1 WOOD JOIST BLOCKING
NOT TO SCALE

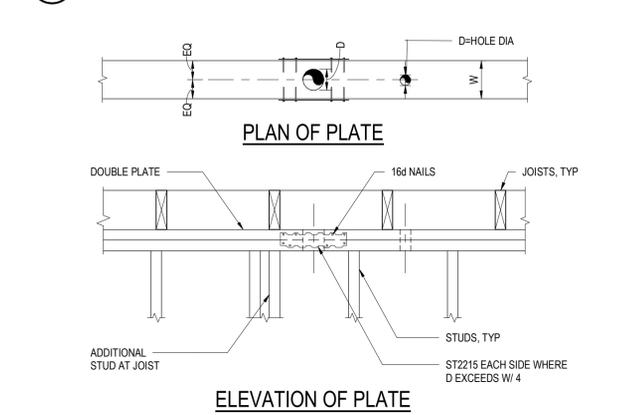


NOTE:
1. SEE SCHEDULES FOR FASTENER INFORMATION.

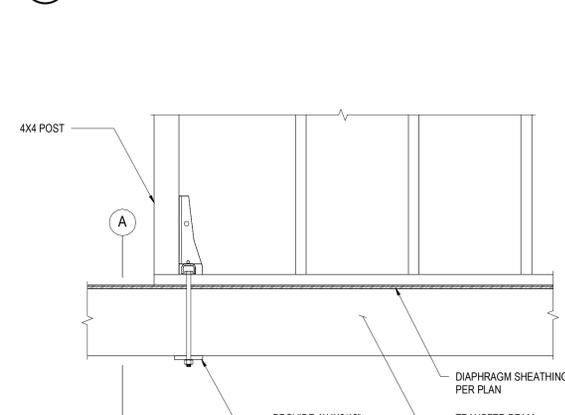
14 SHEAR WALL ON RC WALL JOIST PERPENDICULAR
NOT TO SCALE



11 TYPICAL DRAG DETAIL
NOT TO SCALE



8 HOLES IN PLATES OF WALLS
NOT TO SCALE



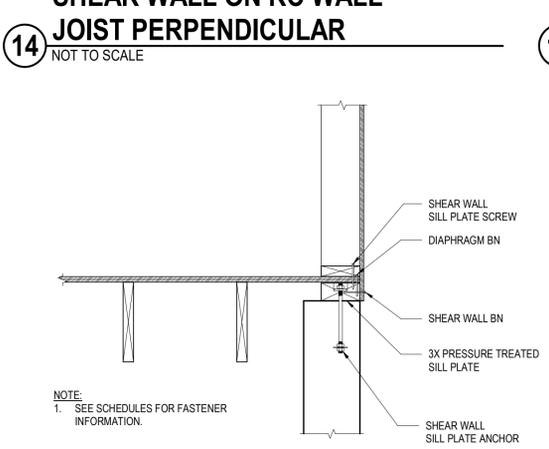
4 JOIST PERPENDICULAR TO STEEL BEAM SIDE NAILER
NOT TO SCALE

HANGER SCHEDULE

SUPPORTING TYPE	SUPPORTING MEMBER	SIMPSON HANGER OPTION	NOTES
SOLID SAWN	2X	BA	
SOLID SAWN	2X SKEWED	B SKEWED	
SOLID SAWN	4X	BA	
SOLID SAWN	6X8	HU68TF	
SOLID SAWN	6X8 SKEWED	HW68 SKEWED	
SOLID SAWN	6X10	HU610TF	
SOLID SAWN	6X10 SKEWED	HU610 SKEWED	
SOLID SAWN	6X12	HU612TF	
SOLID SAWN	6X12 SKEWED	HW612 SKEWED	
CONCRETE WALL	2X	W	
CONCRETE WALL	2X SKEWED	W SKEWED	

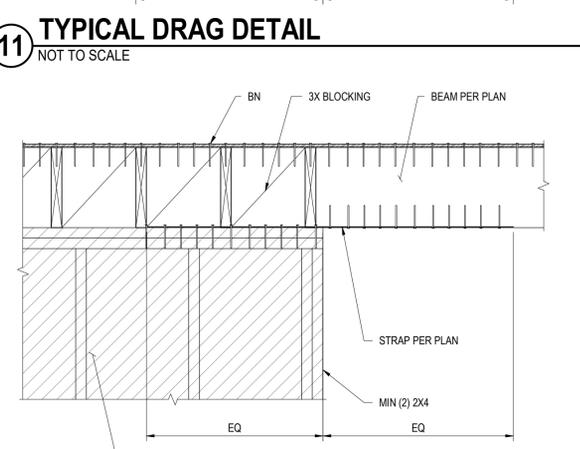
NOTES:
1. ALL HARDWARE SPECIFIED IS SIMPSON BRAND, UON

2 DIMENSION LUMBER HANGER SCHEDULE
NOT TO SCALE

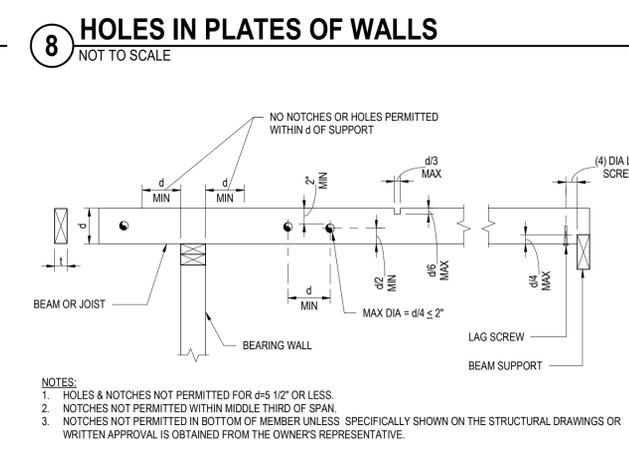


NOTE:
1. SEE SCHEDULES FOR FASTENER INFORMATION.

15 SHEAR WALL ON RC WALL JOIST PARALLEL
NOT TO SCALE

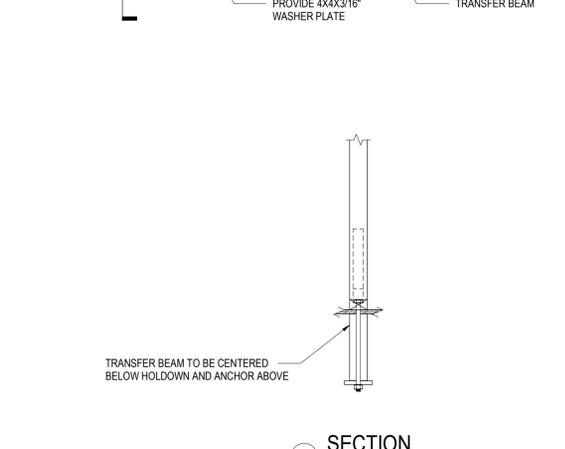


12 TYPICAL DRAG DETAILS
NOT TO SCALE

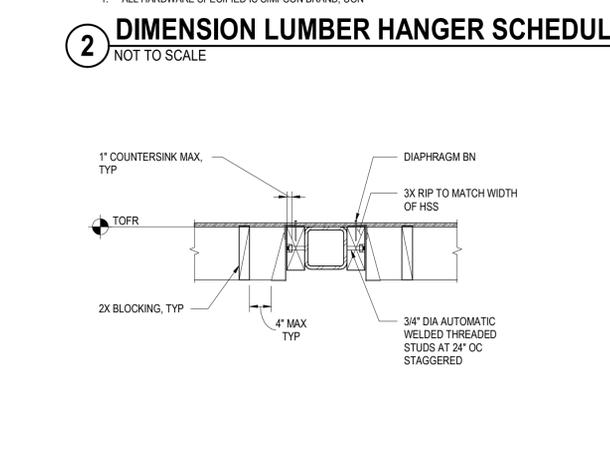


NOTES:
1. HOLES & NOTCHES NOT PERMITTED FOR d=1/2\"/>

9 HOLES AND NOTCHES IN BEAMS AND JOISTS
NOT TO SCALE



6 POST TO BEAM CONNECTION DETAIL
NOT TO SCALE



3 JOIST PERPENDICULAR TO STEEL HSS FLUSH
NOT TO SCALE

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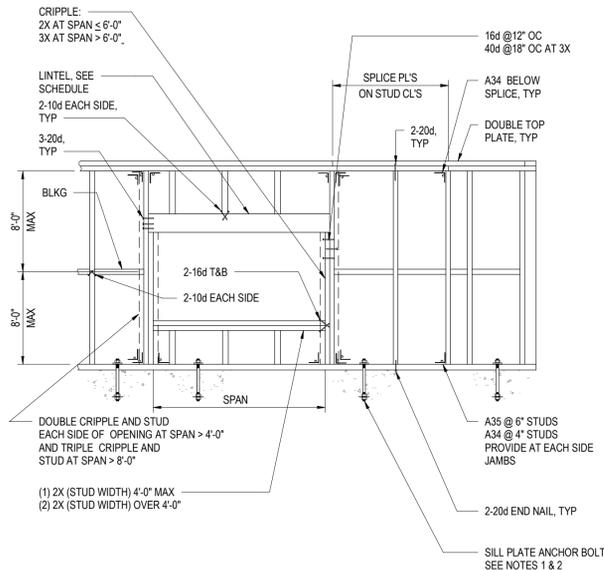
**NOT FOR
CONSTRUCTION**

REVISIONS:

DESCRIPTION:	BY:	DATE:

HILLSIDE REVIEW

SCALE: AS NOTED	DATE: 3/16/2018
DRAWN: Author	CHECKED: Checker
SHEET: TYPICAL WOOD DETAILS	S0.30



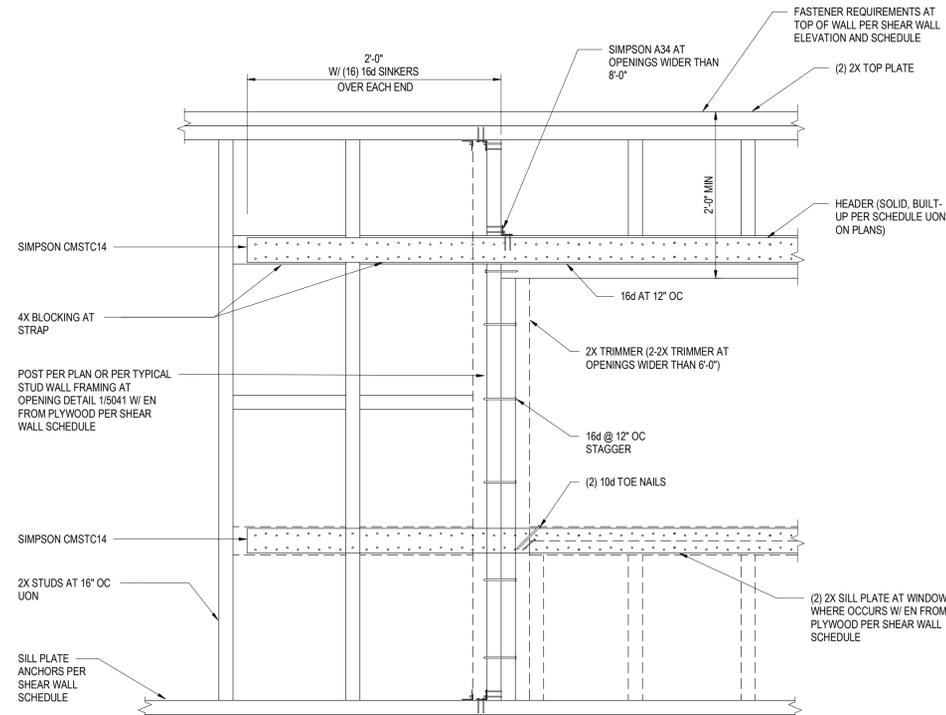
- NOTES:**
- SILL PLATE ANCHOR BOLT TO BE 5/8" DIA WITH 2X2X3/16 PLATE WASHER AND 0-8" MIN EMBED @ 4'-0" OC, 6" MIN AND 12" MAX FROM ENDS AND NOTCHES OVER 1/3 THE SILL WIDTH, UON, MIN (2) BOLTS PER PLATE.
 - AT NON BEARING WALLS ACCEPTABLE TO REPLACE ANCHOR BOLTS WITH SIMPSON PDPW-300@24" OC (LARR 25469) 6" MAX FROM ENDS AND NOTCHES PER ABOVE. AT BEARING WALLS USE OF EQUIVALENT SIMPSON PAB ANCHORS AS ALTERNATIVE FOR SILL ANCHORS IS ACCEPTABLE.
 - STUD SIZE AND SPACING TO BE 2X4 @ 16" OC OR 2X6 @ 16" OC, UON.

ELEVATION

LINTEL SCHEDULE (UON ON DRAWINGS)

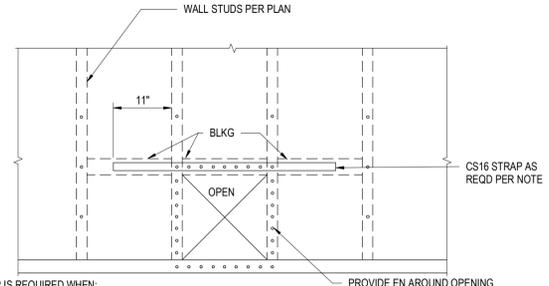
	SPAN ≤ 3'-0"	SPAN ≤ 4'-0"	SPAN ≤ 6'-0"	SPAN OVER 6'-0"
2X4 STUDS	2-2X4 OR 4X4	2-2X6 OR 4X6	4x8	SEE PLANS
2X6 STUDS	3-2X6 OR 4X6 FLAT	6X6 OR 5 1/8"X6"GLB	6X8 OR 5 1/8"X6"GLB	

14 STUD WALL FRAMING
NOT TO SCALE



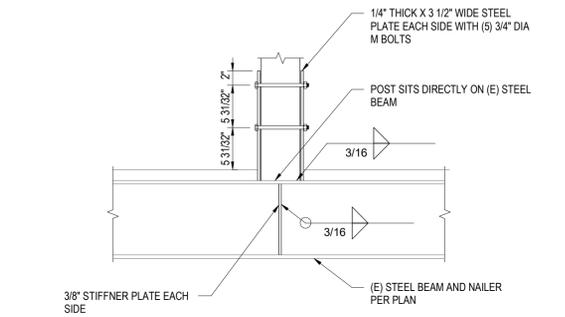
- NOTES:**
- REFERENCE SHEAR WALL ELEVATION AND SCHEDULE FOR PANEL FASTENER INFORMATION NOT SHOWN.

11 SHEAR WALL FRAMING AT OPENING
NOT TO SCALE

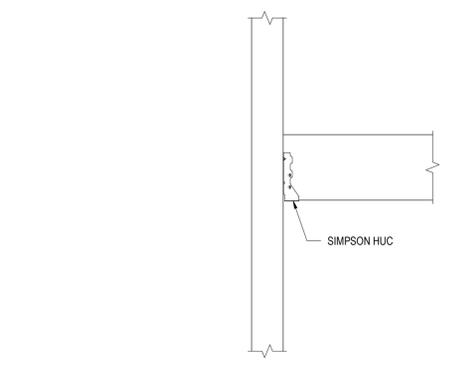


- NOTE:**
- CS16 STRAP IS REQUIRED WHEN:
 - THE PENETRATION IS LARGER THEN 25% OF WALL LENGTH.
 - THE PENETRATIONS ARE CLOSER THAN 32" OC.
 - A SECOND HORIZONTAL STRAP IS REQUIRED AT THE BOTTOM OF OPENING WHEN BOTTOM OF OPENING IS NOT AT BOTTOM PLATE.
- 16X16 MAXIMUM OPENING SIZE.
 - BLOCKING AND STRAPS NOT REQUIRED WHEN PENETRATION IS LESS THAN OR EQUAL TO 6"
 - AND SPACED AT 2 OR MORE STUD BAYS.

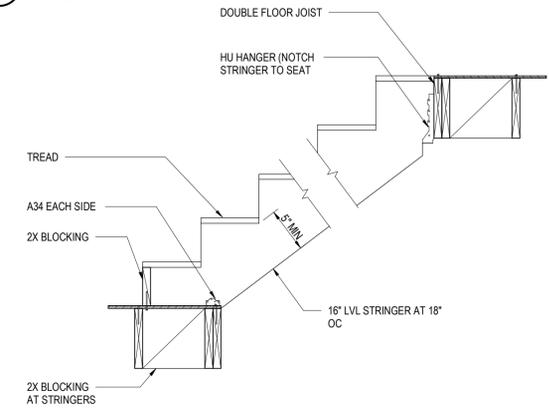
9 SHEAR WALL PENETRATION (16"X16") DETAIL
NOT TO SCALE



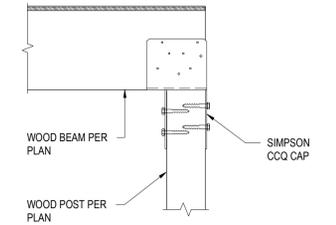
4 WOOD POST TO STEEL BEAM
NOT TO SCALE



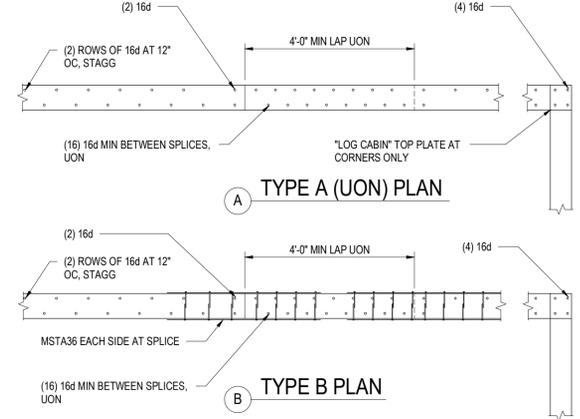
1 CONCEALED POST TO BEAM CONNECTION
NOT TO SCALE



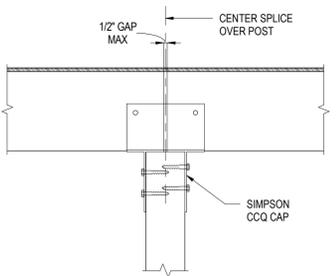
5 TYP WOOD STAIR FRAMING
NOT TO SCALE



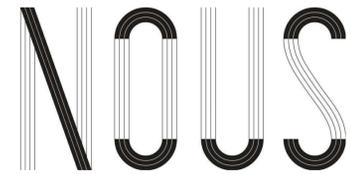
2 WOOD POST TO WOOD BEAM
NOT TO SCALE



6 TOP PLATE SPLICE
NOT TO SCALE



3 WOOD POST TO WOOD BEAM
NOT TO SCALE



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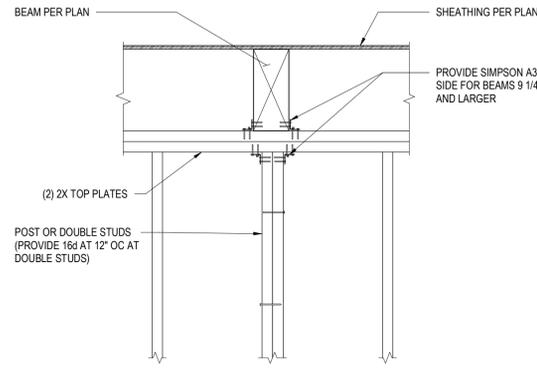
NOT FOR CONSTRUCTION

REVISIONS:

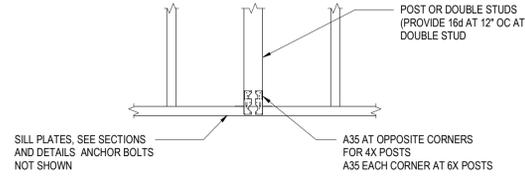
DESCRIPTION:	BY:	DATE:

HILLSIDE REVIEW

SCALE: AS NOTED	DATE: 3/16/2018
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SHEET: TYPICAL WOOD DETAILS	S0.31



10 FLUSH BEAM PERPENDICULAR TO STUD WALL
NOT TO SCALE

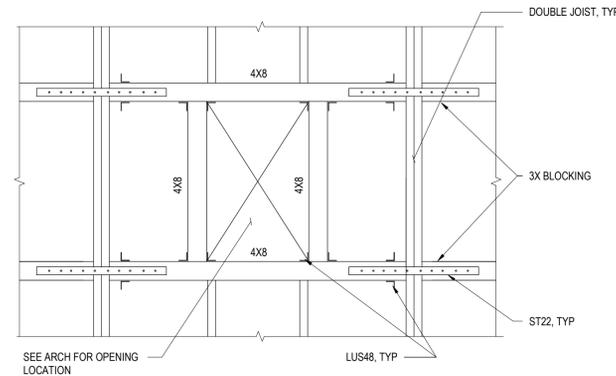


11 POST AND BEAM CONNECTION IN STUD WALL
NOT TO SCALE

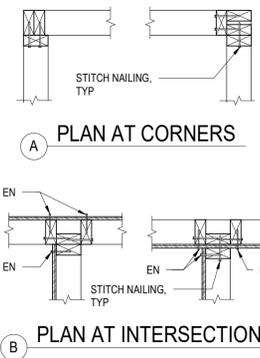
STRAP SCHEDULE						
MARK	TYPE	LENGTH	NAILS	MIN END LENGTH	ALLOWABLE LOAD	DETAIL
S1	CMST12	PER PLAN	(86) 10d	39"	9215#	-
S2	CMST14	PER PLAN	(66) 10d	30"	6490#	-
S3	CS14	PER PLAN	(30) 8d	16"	2490#	-
S4	CS16	PER PLAN	(22) 8d	13"	1705#	-
S5	CS18	PER PLAN	(18) 8d	11"	1370#	-

- NOTES:**
- ALL STRAPS ARE SIMPSON BRAND (LARR 25713).
 - NAILS INDICATED ARE MINIMUM NUMBER OF NAILS REQUIRED IN MINIMUM END LENGTH DISTANCE SHOWN ABOVE.
 - REFER TO PLAN FOR REQUIRED LENGTH OF STRAPS. WHERE NO LENGTH IS INDICATED ON PLANS, STRAP LENGTH SHALL EQUAL TWICE THE MINIMUM END LENGTH DISTANCE SHOWN IN SCHEDULE ABOVE.
 - WHERE LENGTH OF STRAP IS LONGER THAN MINIMUM END LENGTH SHOWN ABOVE, PROVIDE FULL NAILING OVER ENTIRE LENGTH OF STRAP.
 - FULL NAILING IS EQUIVALENT NAILING REQUIRED OVER MINIMUM END LENGTH DISTANCE SHOWN ABOVE.

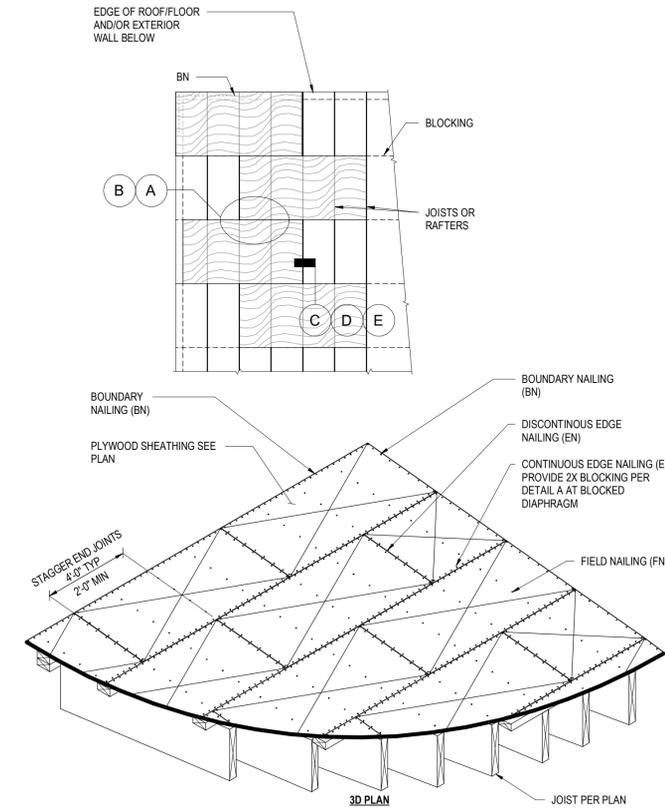
7 STRAP SCHEDULE
NOT TO SCALE



8 OPENING IN ROOF
NOT TO SCALE



9 STUD WALL CORNERS AND INTERSECTIONS
NOT TO SCALE

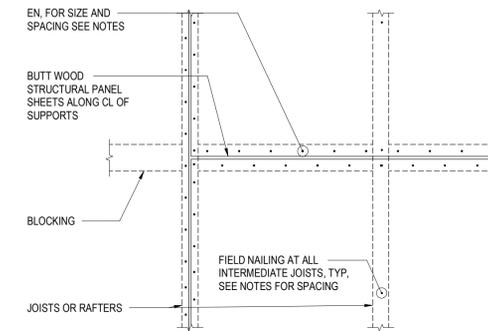


- NOTES:**
- PROVIDE WOOD STRUCTURAL PANEL SHEETS NOT LESS THAN 2'-0" IN LEAST DIMENSION NOR LESS THAN 8'-0" SQ FEET IN AREA. USE FULL SHEETS WHEREVER POSSIBLE.
 - PLACE WOOD STRUCTURAL PANEL SHEET WITH FACE PLIES PERPENDICULAR TO JOISTS AND STAGGER 4'-0" EDGES AS SHOWN.
 - COORDINATE JOIST LAYOUT WITH 4'-0" MODULE AS RELATED TO STRUCTURAL 1 RATED SHEATHING EXPOSURE 1.
 - ADHESIVE: ADHESIVE SHALL CONFORM TO APA SPECIFICATION AFG-01 OR ASTM D3498, APPLIED IN ACCORDANCE WITH THE ADHESIVE MANUFACTURER'S RECOMMENDATIONS. IF OSB PANELS WITH SEALED SURFACES AND EDGES ARE TO BE USED, USE ONLY SOLVENT-BASED GLUES; CHECK WITH PANEL MANUFACTURER.
- EXECUTION:**
- APPLY A BEAD OF GLUE ABOUT 1/4 INCH IN DIA TO ALL CONTACT/BEARING SURFACES. ON WIDE AREAS APPLY GLUE IN SERPENTINE PATTERN.
 - APPLY TWO BEADS OF GLUE ON JOISTS WHERE PANEL ENDS BUTT.
 - APPLY GLUE PROGRESSIVELY TO BUTTING EDGES OF PANELS AND INTO GROOVED EDGES OF TONGUE AND GROOVE PANELS AS WORK PROCEEDS. COMPLETE NAILING OF EACH PANEL BEFORE GLUE SETS.
5. AT INTERIOR SHEARWALL LOCATIONS, PROVIDE DOUBLE LINES OF DIAPHRAGM NAILING INTO TRANSFER BLOCKING OR TOP PLATES.

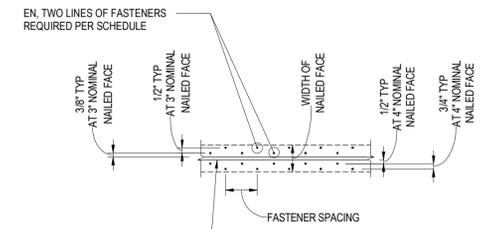
DIAPHRAGM SHEATHING SCHEDULE								
DIAPH TYPE	SHEATHING	NAILING						DETAIL
		LINES OF FASTENERS	TYPE*	WIDTH OF NAILED FACE	BN	EN	FN	
D1	15/32" DFL STRUCT I	1	10d COMMON	2"	4"	6"	12"	A
D2	23/32" DFL STRUCT I	2	10d COMMON	3"	2 1/2"	3"	12"	B

* NAILING TO BE RING OR SPIRAL SHANK, FULL HEAD.

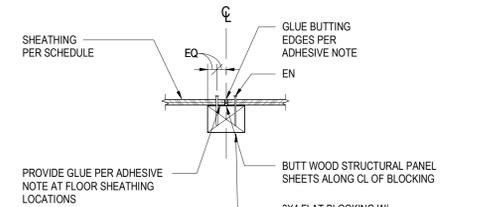
6 DIAPHRAGM SHEATHING SCHEDULE
NOT TO SCALE



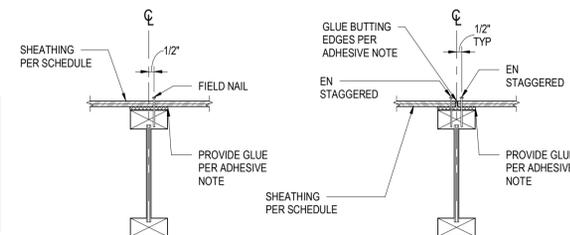
A PLAN VIEW



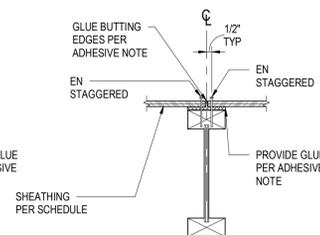
B PLAN VIEW - HIGH STRENGTH DIAPH



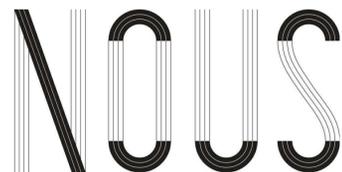
C SECTION AT BLOCKING



D SECTION AT TJI



E SECTION AT TJI



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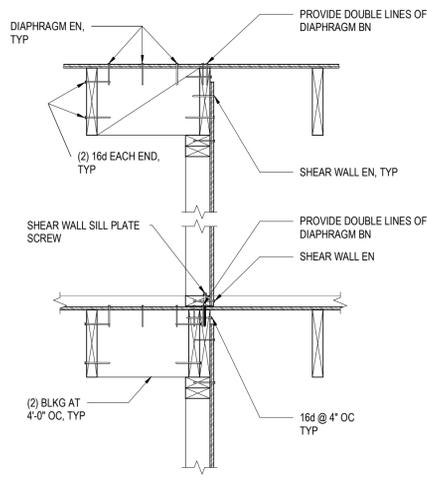
NOT FOR CONSTRUCTION

REVISIONS:

DESCRIPTION:	BY:	DATE:

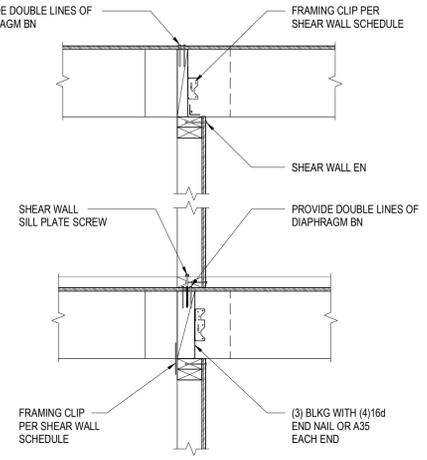
HILLSIDE REVIEW

SCALE: AS NOTED	DATE: 3/16/2018
DRAWN: Author	CHECKED: Checker
TYPICAL WOOD DETAILS SHEET:	S0.32



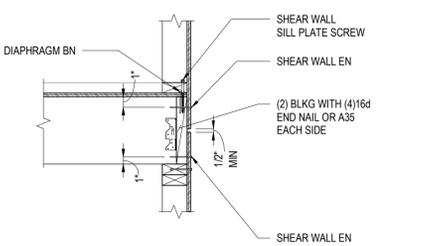
NOTES:
 1. DETAIL SIMILAR AT DOUBLE SIDED SHEATHING.
 2. SEE SCHEDULES FOR FASTENER INFORMATION.

10 JOIST PARALLEL TO SHEAR WALL CONNECTION
 NOT TO SCALE



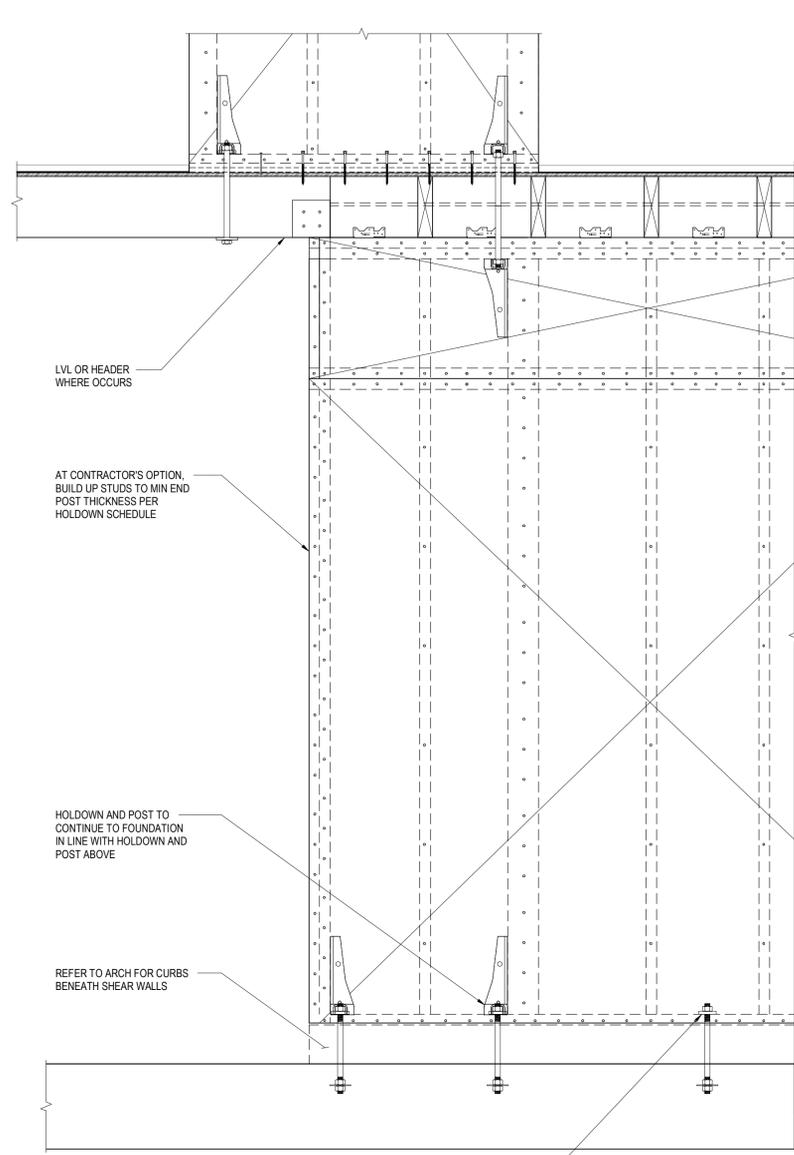
NOTES:
 1. DETAIL SIMILAR AT DOUBLE SIDED SHEATHING.
 2. SEE SCHEDULES FOR FASTENER INFORMATION.

11 JOIST PERPENDICULAR TO SHEAR WALL CONNECTION
 NOT TO SCALE



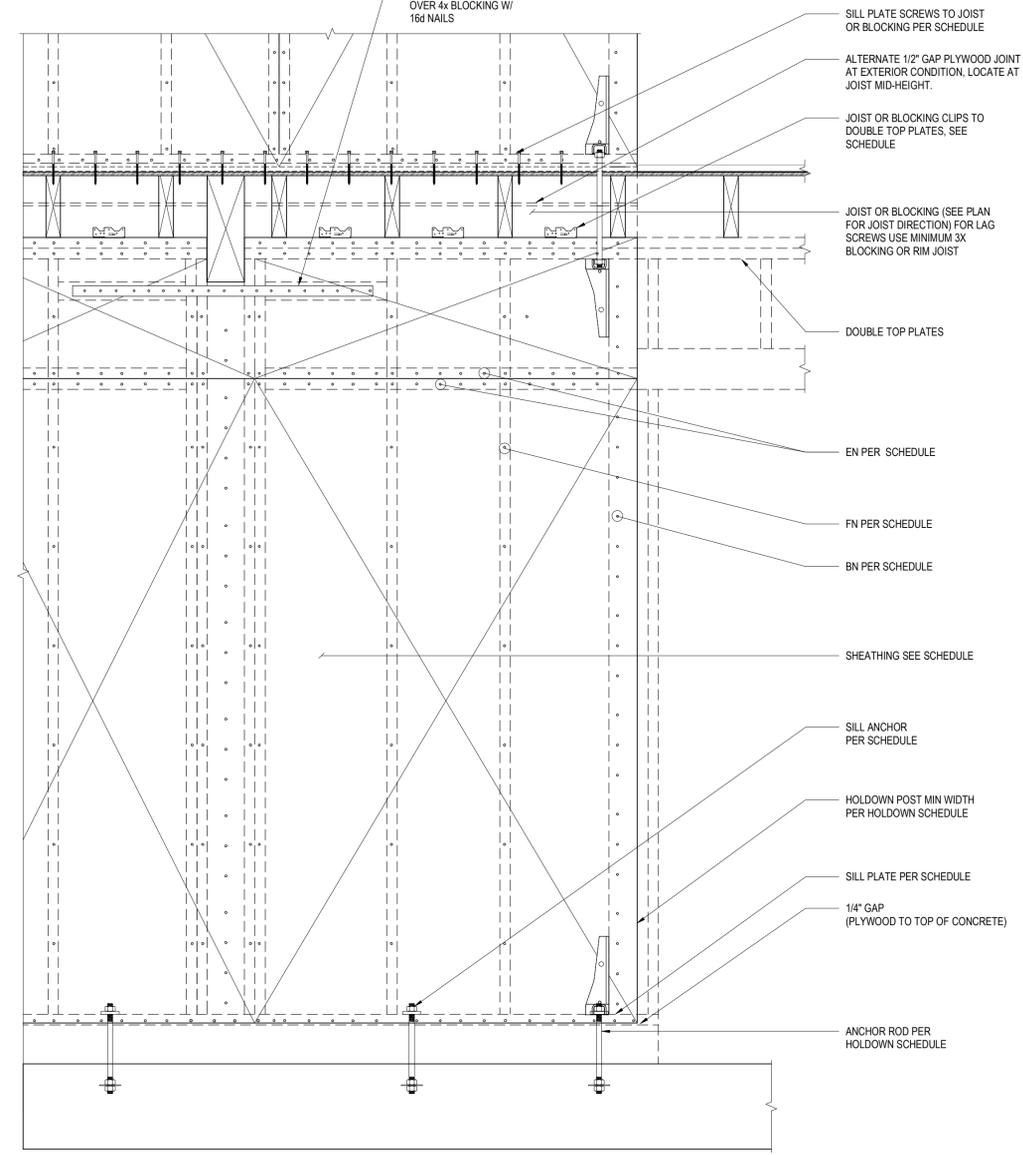
NOTES:
 1. DETAIL SIMILAR AT DOUBLE SIDED SHEATHING.
 2. SEE SCHEDULES FOR FASTENER INFORMATION.

12 JOIST PERPENDICULAR TO SHEAR WALL CONNECTION AT EXTERIOR
 NOT TO SCALE

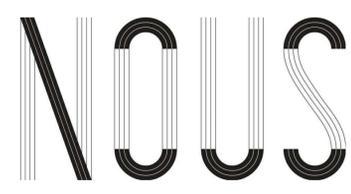


NOTES:
 1. REFER TO PLAN & SHEAR WALL LEGEND FOR SHEAR WALL TYPE.
 2. NAILING TO BE 1/2" DISTANCE FROM PANEL EDGE AND 3/8" DISTANCE FROM EDGE OF CONNECTING MEMBERS.
 3. 3X STUD AND BLOCKING AT ALL ADJOINING PANEL EDGES.
 4. WHERE PLYWOOD IS APPLIED TO BOTH FACES OF WALL, STAGGER IN ALL CASES.
 5. A35 OR LTP4 SHEAR TRANSFER SHALL BE CONNECTING TO PLATE AND BLOCKING, JOIST OR RAFTER.
 6. USE OF EQUIVALENT SIMPSON PAB ANCHORS AS ALTERNATIVE FOR SILL ANCHORS IS ACCEPTABLE.
 7. PLYWOOD FACE GRAIN TO BE VERTICAL.
 8. WHERE SHEARWALL SITS DIRECTLY ON FLOOR FRAMING, SEE 9 / S0.34
 9. WHERE TOP OF SHEARWALL TERMINATES UNDER STEEL BEAM, SEE 9 / S0.34
 10. WHERE SHEAR WALL TERMINATES AT STEEL COLUMN OR CONCRETE WALL, HOLDOWN MAY BE OMITTED. SEE 11 / S0.34
 11. WHERE SHEARWALL HORIZONTAL OFFSET OCCURS, SEE 12 &
 12. WHERE 3X SILL PLATE IS USED, PROVIDE 6" LONG SDS 1/4" SILL PLATE SCREWS.
 13. *WHERE DOUBLE SILL PLATE IS USED, PROVIDE 6" LONG SIMPSON SDS SCREWS IN LIEU OF 4.5" LONG SCREWS.
 14. 2X STUDS AT 16" OC, UON.

9 SHEAR WALL SCHEDULE AND ELEVATION
 NOT TO SCALE



SHEAR WALL SCHEDULE										
SHEAR WALL TYPE	PLYWOOD PANEL		NAILING SIZE		MIN STUD DEPTH	MIN SILL THK	SILL PLATE SCREWS (SIMPSON SDS 1/4" x 4 1/2" LONG) *	SILL PLATE ANCHOR TO CONCRETE SLAB	ALLOW SHEAR PLF	A35 OR LTP4 FRAMING CLIPS
	THK	TYPE	(BN)	(FN)						
A	15/32"	STRUCT I	ONE SIDE	10d@ 6", 6", 12"	5 1/2"	2X	1 ROW @ 12" OC	5/8" DIA X 8" EMBED @ 24" OC	340	AT 12" OC ONE SIDE
B	15/32"	STRUCT I	ONE SIDE	10d@ 4", 4", 12"	5 1/2"	2X	1 ROW @ 8" OC	5/8" DIA X 8" EMBED @ 24" OC	510	AT 12" OC ONE SIDE
C	15/32"	STRUCT I	ONE SIDE	10d@ 3", 3", 12"	5 1/2"	2X	1 ROW @ 6" OC	5/8" DIA X 8" EMBED @ 24" OC	665	AT 8" OC ONE SIDE
D	15/32"	STRUCT I	TWO SIDE	10d@ 2", 2", 12"	5 1/2"	2X	2 ROWS @ 4" OC	5/8" DIA X 8" EMBED @ 24" OC	1740	AT 8" OC TWO SIDES



POWDER MOUNTAIN HOUSE EDEN, UTAH

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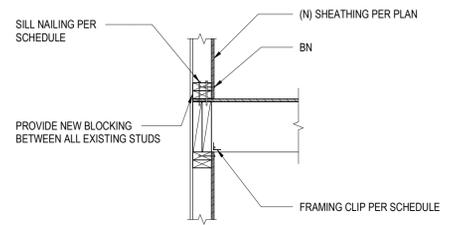
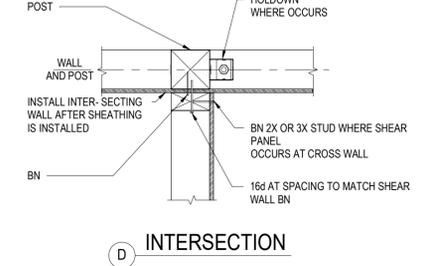
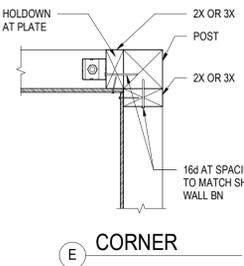
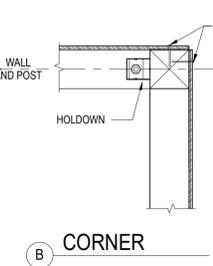
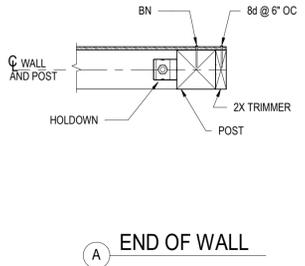
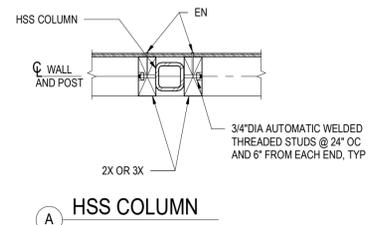
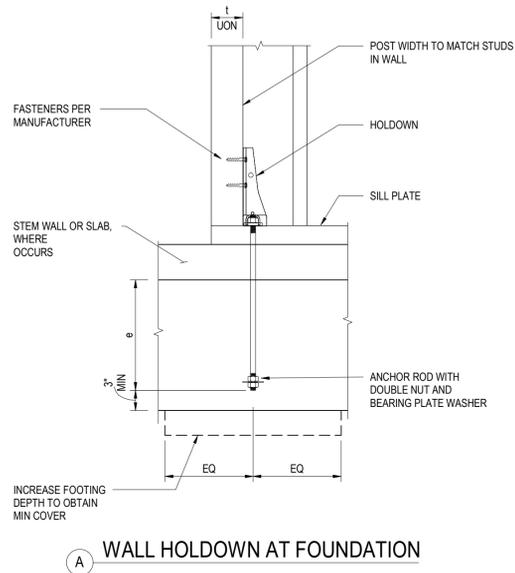
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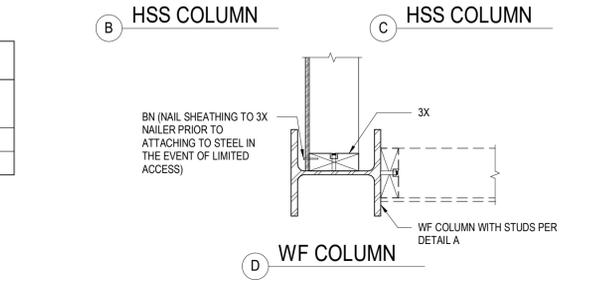
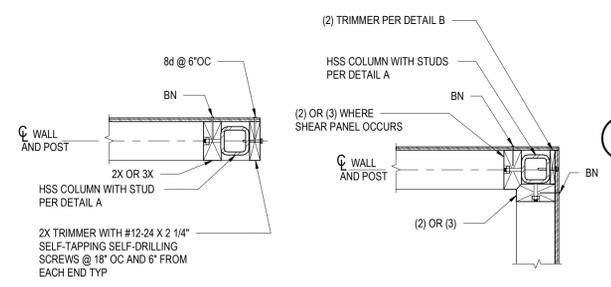
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SHEET: TYPICAL WOOD DETAILS	S0.33



HOLDOWN SCHEDULE					
HOLDOWN TYPE	HOLDOWN	FOUNDATION EMBED e	SLAB EMBED e1	POST THICKNESS t	ANCHOR BOLT DIA d
1	HD#	#	#	#	#
2	HD#	#	#	#	#

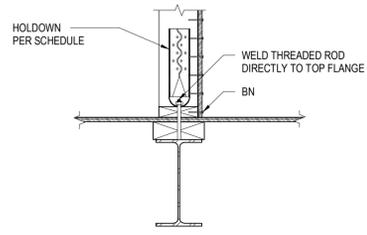
*HD# = SIMPSON HOLD-DOWN (LARR 25720).

14 SHEAR WALL HOLDOWN DETAILS AND SCHEDULE
NOT TO SCALE

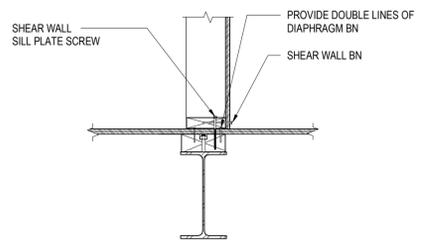


11 SHEAR WALL STEEL COLUMN CONNECTION
NOT TO SCALE

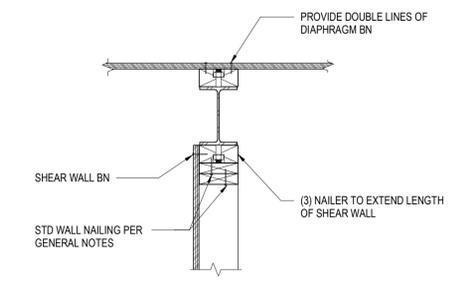
7 SHEAR WALL CORNER AND INTERSECTION FRAMING
NOT TO SCALE



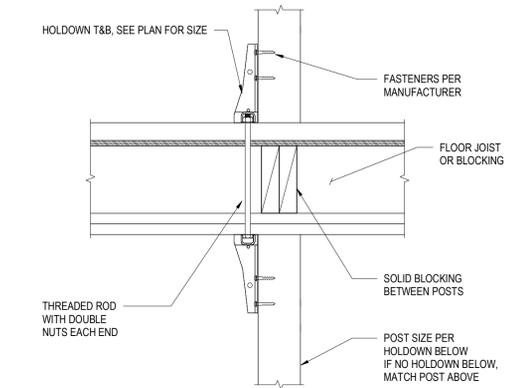
8 SHEAR WALL HOLDOWN AT STEEL BEAM
NOT TO SCALE



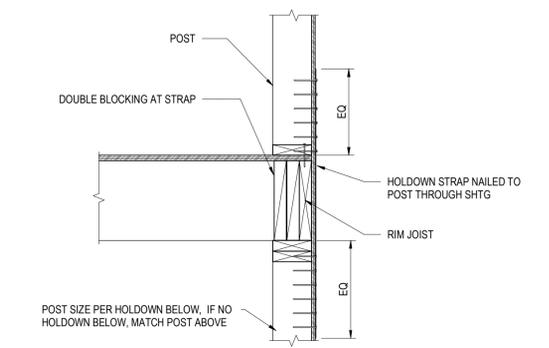
12 SHEAR WALL TRANSFER AT STEEL BEAM
NOT TO SCALE



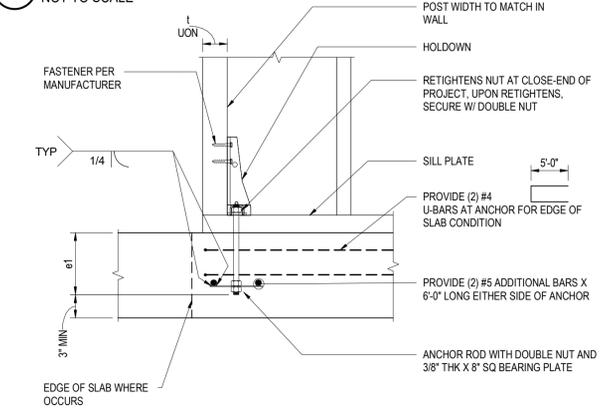
9 SHEAR WALL BELOW STEEL BEAM
NOT TO SCALE



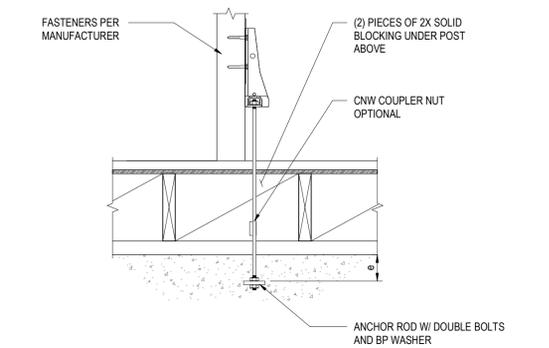
5 SHEAR WALL HOLDOWN BETWEEN FLOORS
NOT TO SCALE



2 SHEAR WALL STRAP HOLDOWN
NOT TO SCALE



6 SHEAR WALL HOLDOWN AT SUSPENDED SLAB
NOT TO SCALE



3 SHEAR WALL HOLDOWN AT RAISED FLOOR
NOT TO SCALE

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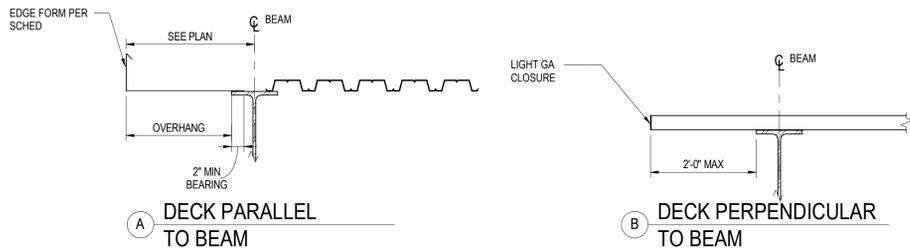
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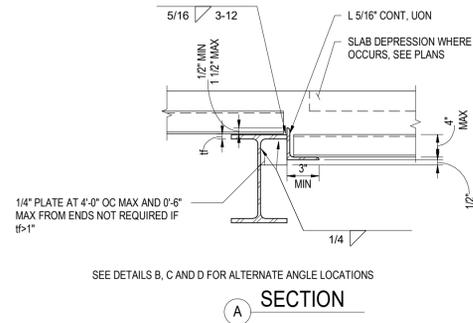
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S0.34	



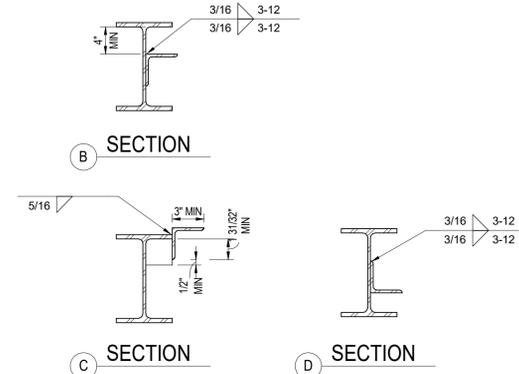
13 EDGE OF DECK - INTERIOR
NOT TO SCALE

MAX OVERHANG	EDGE FORM GAGE
3"	16
5"	14
8"	12
11"	10
18"	1/4"

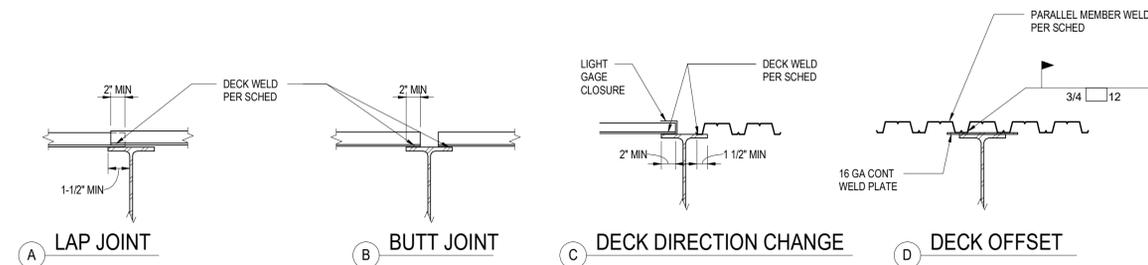
SEE DETAIL 6 FOR ELEVATOR SHAFTS



7 DECK SUPPORT AT CHANGE OF SLAB ELEVATION
NOT TO SCALE

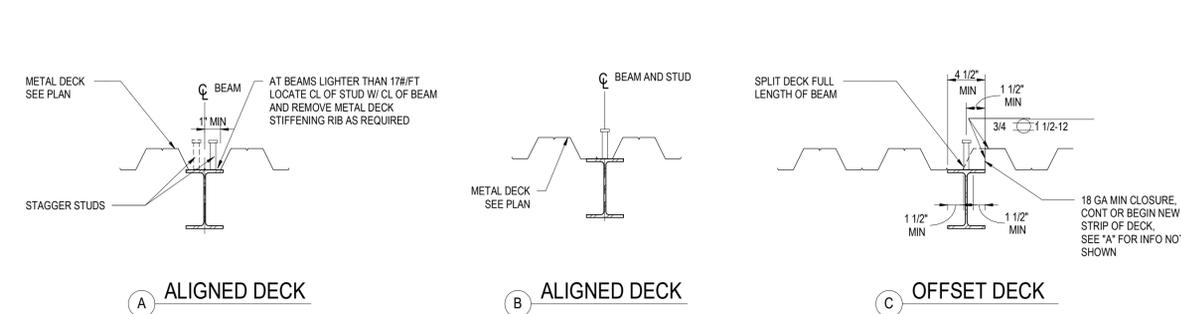


1 STEEL DECK NOTES
NOT TO SCALE

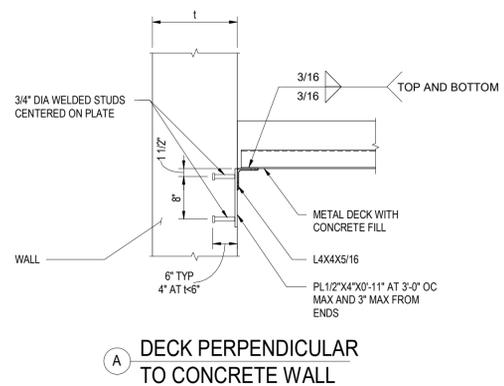


14 TYPICAL DECK JOINT OVER SUPPORT
NOT TO SCALE

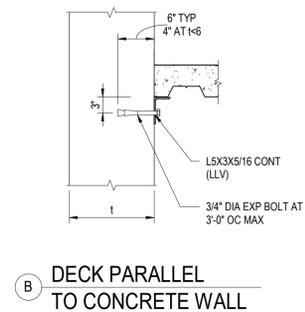
NOTE:
1. SEE STEEL DECK NOTES AND DECK SCHEDULE FOR COMPLETE INFORMATION.



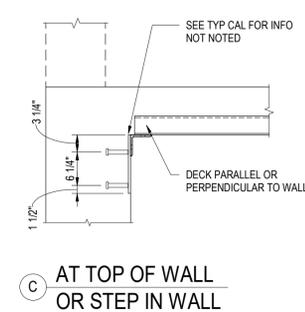
8 SHEAR STUDS DETAIL
NOT TO SCALE



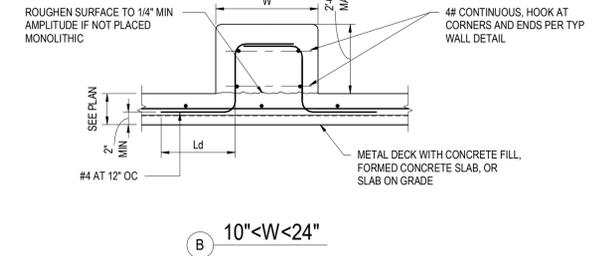
12 METAL DECK SUPPORT AT CONCRETE WALL
NOT TO SCALE



B DECK PARALLEL TO CONCRETE WALL

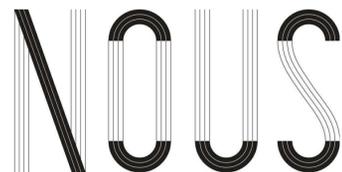


C AT TOP OF WALL OR STEP IN WALL



NOTES:
1. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR CURB LOCATIONS, DIMENSIONS, CHAMBERS AND INSERTS.
2. COORDINATE REINFORCEMENT LOCATIONS TO AVOID INTERFERENCE WITH INSTALLATION OF EXP ANCHORS IF USED.

3 CONCRETE CURB ON METAL DECK
NOT TO SCALE



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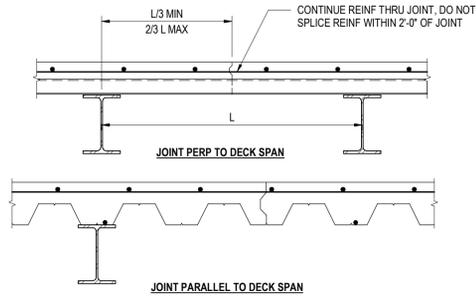
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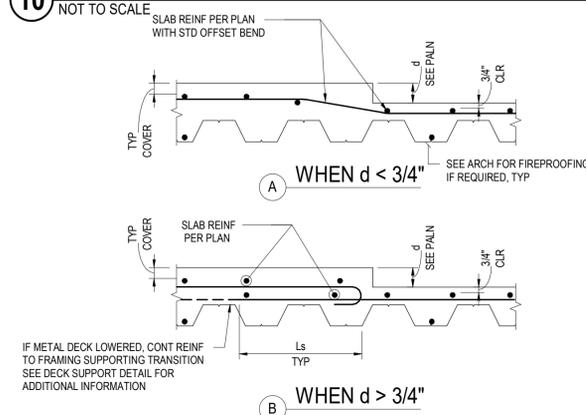


NOTE:
1. LIMIT CONCRETE FILL PLACEMENT TO 160 FT MAX IN ANY DIRECTION, WHERE REQUIRED, DIVIDE AREAS EQUALLY AND ALLOW A MIN OF (3) DAY BETWEEN ADJACENT PLACEMENTS.

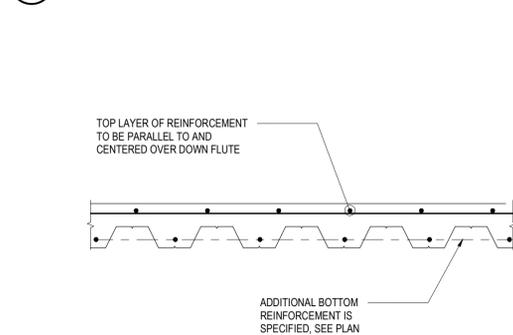
SLAB TYPE	DECK TYPE	HEIGHT	GAUGE	FACTORY VENTED	MINIMUM SECTION PROPERTIES			FILL		STUD SIZE	SLAB REINFORCING	ATTACHMENT TYPE				SIDE LAP
					I (IN ⁴)	S (IN ³)	S (IN ³)	SLAB TYPE	MIN THICKNESS ABOVE TOP FLUTE			TO PERIMETER SUPPORT		TO INTERMEDIATE SUPPORT		
												PERPENDICULAR TO DECK	PARALLEL TO DECK	PERPENDICULAR TO DECK	PARALLEL TO DECK	
S1	W	2"	18	YES	0.555	0.510	0.511	LIGHT WEIGHT CONCRETE	2"	3/4 DIA x2	#4 @12 OC PARALLEL TO DECK SPAN	1/2" DIA PUDDLE WELD AT ALL DOWN FLUTES	1/2" DIA PUDDLE WELD @ 12 OC	1/2" DIA PUDDLE WELD AT ALL DOWN FLUTES	1/2" DIA PUDDLE WELD @ 12 OC	1 1/2" SIDE SEAM WELD @ 12" OC
S2	W	2"	18	YES	0.555	0.510	0.511	LIGHT WEIGHT CONCRETE	8"	3/4 DIA x5	#5 @12 OC EA WAY TOP AND BOTTOM	-DO-	-DO-	-DO-	-DO-	-DO-

NOTES:
1. WHENEVER POSSIBLE, DECK LAYOUTS SHALL PROVIDE SHEETS OF SUFFICIENT LENGTH OF SPAN CONTINUOUSLY ACROSS AT LEAST THREE SPANS. ENDS SHALL TERMINATE OVER A SUPPORT PERPENDICULAR TO THE DECK SPAN, EXCEPT AT OPENINGS OR BUILDING EDGES WHERE DECKS MAY BE CANTILEVERED.
2. SHORE DECK AS REQUIRED BY MANUFACTURER.
3. PROVIDE A MINIMUM OF 2" BEARING AT SUPPORTING MEMBERS PERPENDICULAR TO DECK SPAN AND 1 1/2" AT MEMBERS PARALLEL TO DECK SPAN.
4. DIA OF PUDDLE WELD SHOWN REPRESENTS EFFECTIVE FUSION AREA.
5. EACH PUDDLE WELD SHOWN MAY BE REPLACED WITH A SHEAR STUD WELDED THROUGH DECK.
6. CONCRETE FILL THICKNESS SHOWN ON FRAMING PLANS AND DETAIL SHEETS ARE MINIMUM THICKNESS. PROVIDE ADDITIONAL CONCRETE FILL AS REQUIRED TO COMPENSATE FOR BEAM OR DECK DEFLECTIONS AND MAINTAIN SURFACE TOLERANCES SPECIFIED.

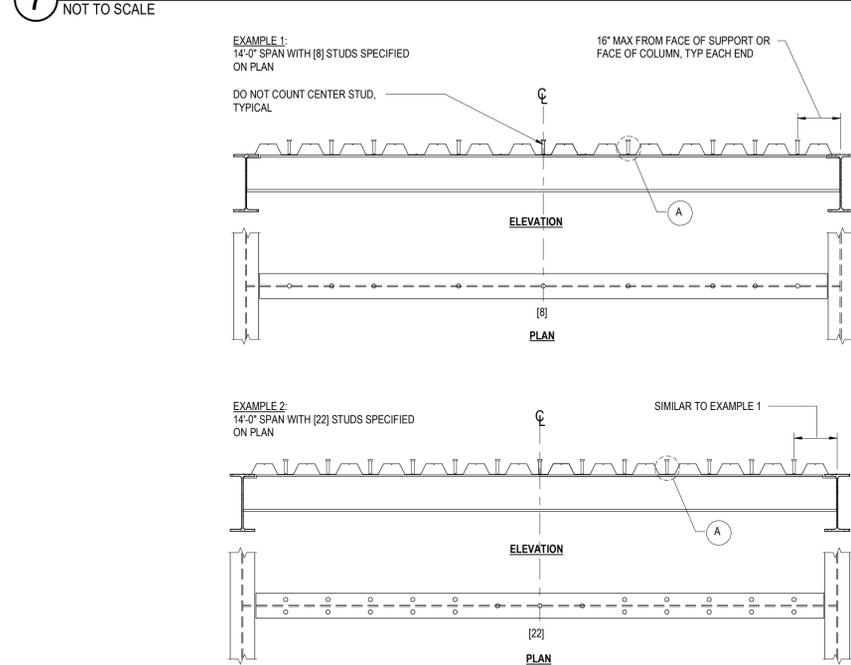
10 SLAB ON METAL DECK CONSTRUCTION JOINT



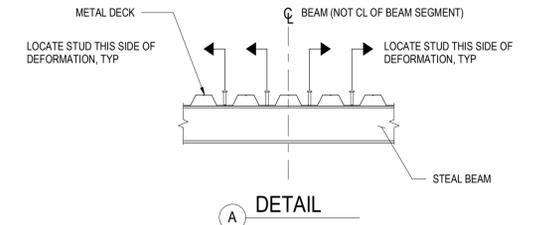
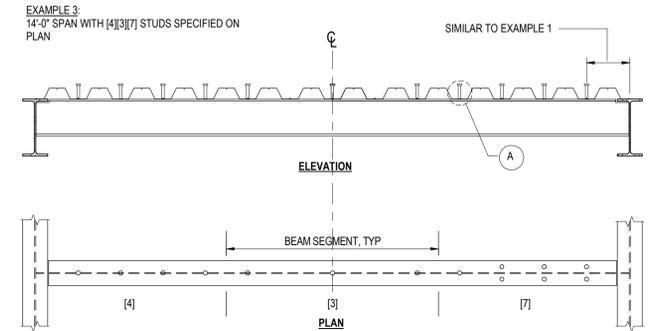
11 METAL DECK DEPRESSIONS



7 METAL DECK SCHEDULE OF PROPERTIES



NOTES:
1. MIN NUMBER OF STUDS REQUIRED PER SEGMENT OF BEAM IS SHOWN AS [N] ON FRAMING PLANS.
2. WHERE NO INDICATION IS GIVEN, PROVIDE STUDS AT 2'-0" OC MAX.
3. FOR DECK PARALLEL TO BEAM UNIFORMLY SPACE STUDS ALONG CL OF BEAM SEGMENT NO CLOSER THAN 4 1/2" OC, SEE STUD PLACEMENT DETAIL FORM MORE INFO.
4. FOR DECK PERPENDICULAR OR SKEWED TO BEAM, PLACE REQUIRED NUMBER OF SKEWED TO BEAM, PLACE REQUIRED NUMBER OF STUDS EQUALLY ALONG THE LENGTH OF BEAM SEGMENT FOR SPACING GREATER THAN 2'-0" OC OTHERWISE USE THE FOLLOWING METHOD:
STEP A: PLACE STUDS IN ALTERNATE TROUGHS STARTING AT EACH END
STEP B: PLACE ONE HALF OF REMAINING STUDS AT EACH END IN THE REMAINING TROUGHS STARTING AT THE END SUPPORT
STEP C: AFTER A STUD HAS BEEN PLACED IN EACH TROUGH, PLACE A SECOND STUD PER TROUGH STARTING AT EACH END. SIMILAR FOR THREE STUDS PER TROUGH UNTIL THE PLAN SPECIFICATION ... [] HAS BEEN MET. SEE EXAMPLES 1, 2 AND 3.



NOTES:
1. PLACE STUDS AS CLOSE AS POSSIBLE TO CL OF DOWN TROUGH.
2. WHERE DOWN TROUGHS HAVE A DEFORMATION AT THE CL, PLACE STUDS TO THE SIDE FURTHEST FROM THE CENTER OF THE BEAM SPAN SEE ABOVE AND STUD LAYOUT DETAIL.

12 METAL DECK CONCRETE FILL REINFORCING

NOT TO SCALE

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9 WELDED STUD LAYOUT

NOT TO SCALE



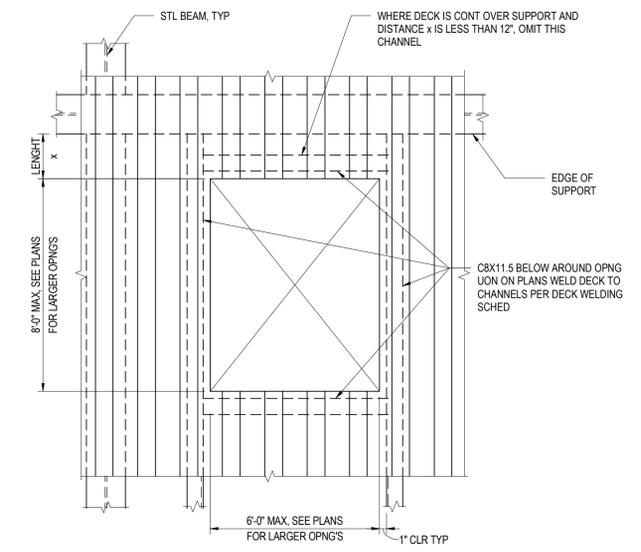
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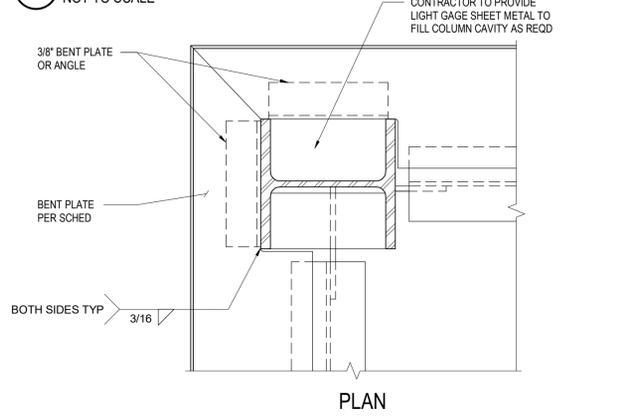
DESCRIPTION:	BY:	DATE:

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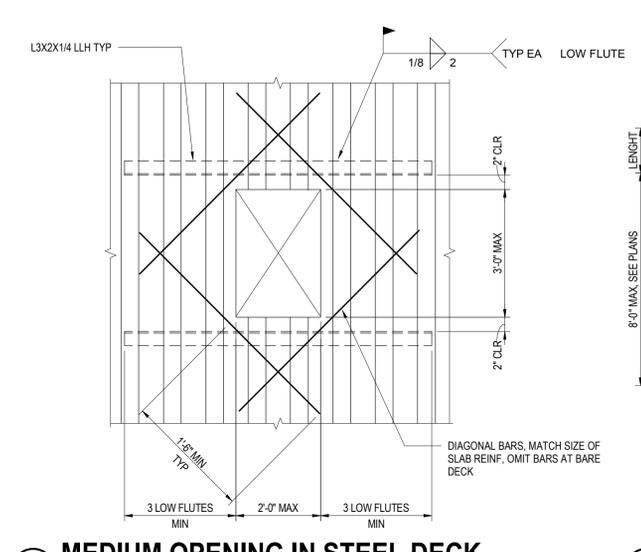
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DRAWN: Author	CHECKED: Checker
SHEET: TYPICAL METAL DECK DETAILS	S0.41



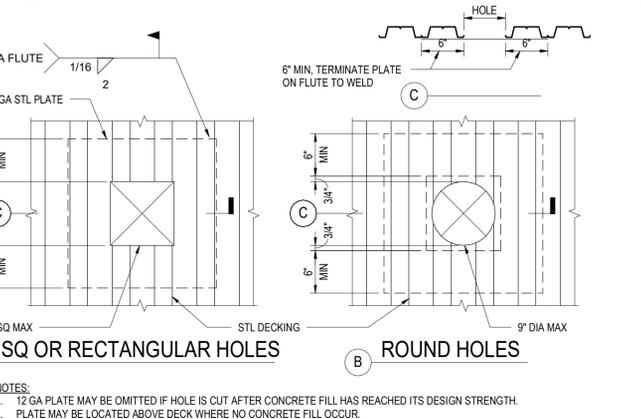
10 LARGE OPENING IN STEEL DECK
NOT TO SCALE



11 EDGE OF DECK AT EXTERIOR CORNER COLUMN
NOT TO SCALE

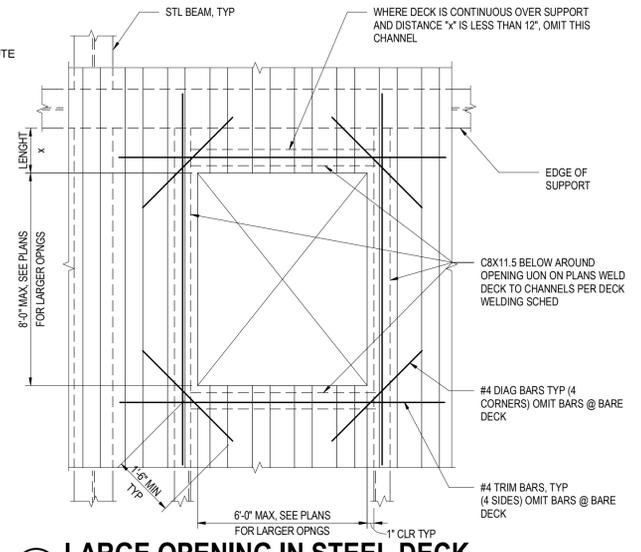


7 MEDIUM OPENING IN STEEL DECK
NOT TO SCALE

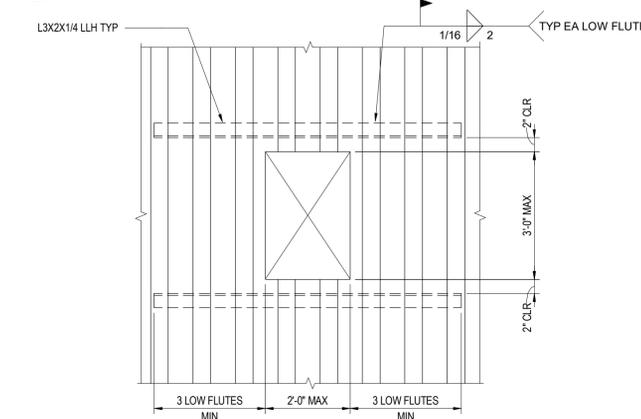


8 SMALL OPENING IN STEEL DECK
NOT TO SCALE

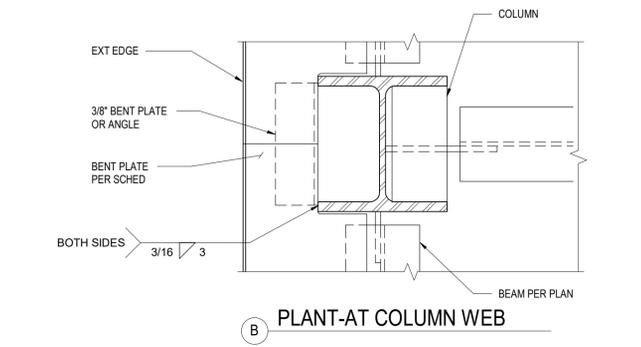
NOTES:
1. 12 GA PLATE MAY BE OMITTED IF HOLE IS CUT AFTER CONCRETE FILL HAS REACHED ITS DESIGN STRENGTH.
2. PLATE MAY BE LOCATED ABOVE DECK WHERE NO CONCRETE FILL OCCURS.



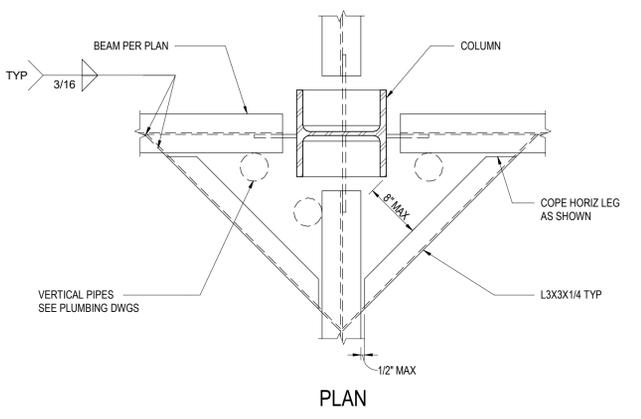
4 LARGE OPENING IN STEEL DECK
NOT TO SCALE



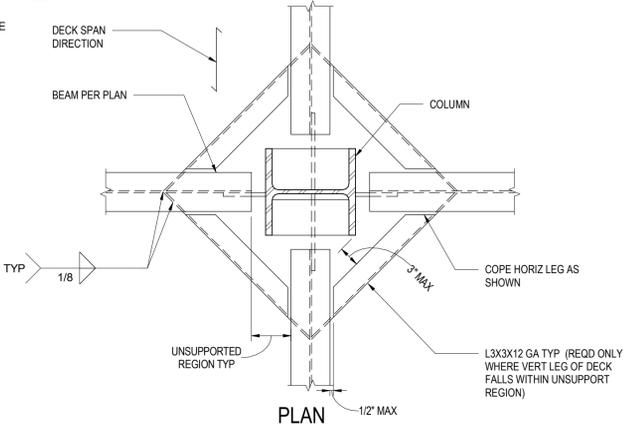
5 MEDIUM OPENING IN STEEL DECK
NOT TO SCALE



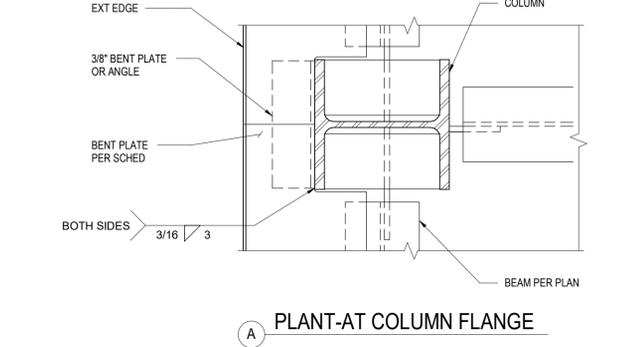
6 EDGE OF DECK AT EXTERIOR COLUMN
NOT TO SCALE



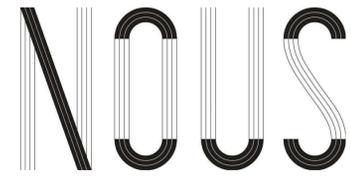
1 OPENINGS ADJACENT TO COLUMN
NOT TO SCALE



2 DECK SUPPORT AT COLUMN
NOT TO SCALE



3 EDGE OF DECK AT EXTERIOR COLUMN
NOT TO SCALE



POWDER MOUNTAIN HOUSE EDEN, UTAH

CLIENT TOM BUTTGENBACH 8645 EAST COPPER CREST EDEN, UT 84310	ARCHITECT: TOM WISCOMBE ARCHITECTURE 2404 WILSHIRE BLVD., SUITE 4B LOS ANGELES, CA 90057 (213) 674-7238 www.tomwiscombe.com	STRUCTURAL ENGINEER: NOUS ENGINEERING 527 W 7TH STREET SUITE 701 LOS ANGELES, CA 90014 (213) 627-6687 contact@nousengineering.com	CIVIL ENGINEERING: TALISMAN CIVIL CONSULTANTS 5217 SOUTH STATE ST., SUITE 200 MURRAY, UT 84107 (801) 743-1300 www.talismancivil.com	GEOTECHNICAL: GEOENVIRONMENTAL SERVICES 12429 SOUTH 300 EAST, SUITE 100 DRAPER, UTAH 84020-8770 (801) 743-4044 www.igesinc.com
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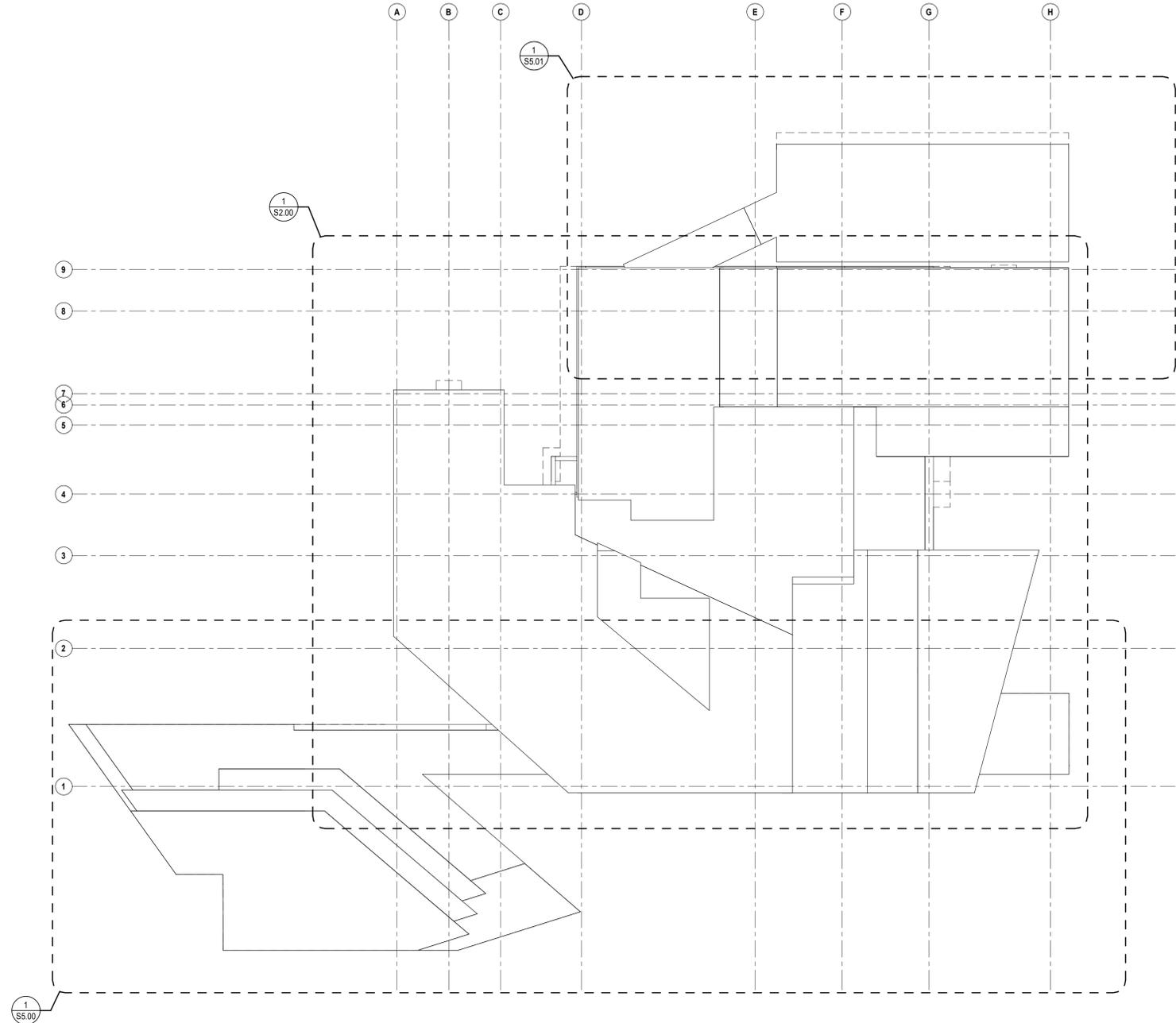
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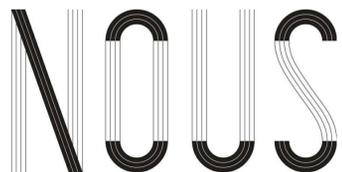
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SHEET: S0.42	



1 SITE PLAN
1/8" = 1'-0"



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POWDER MOUNTAIN HOUSE

EDEN, UTAH

CLIENT
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8645 EAST COPPER CREST
EDEN, UT 84310

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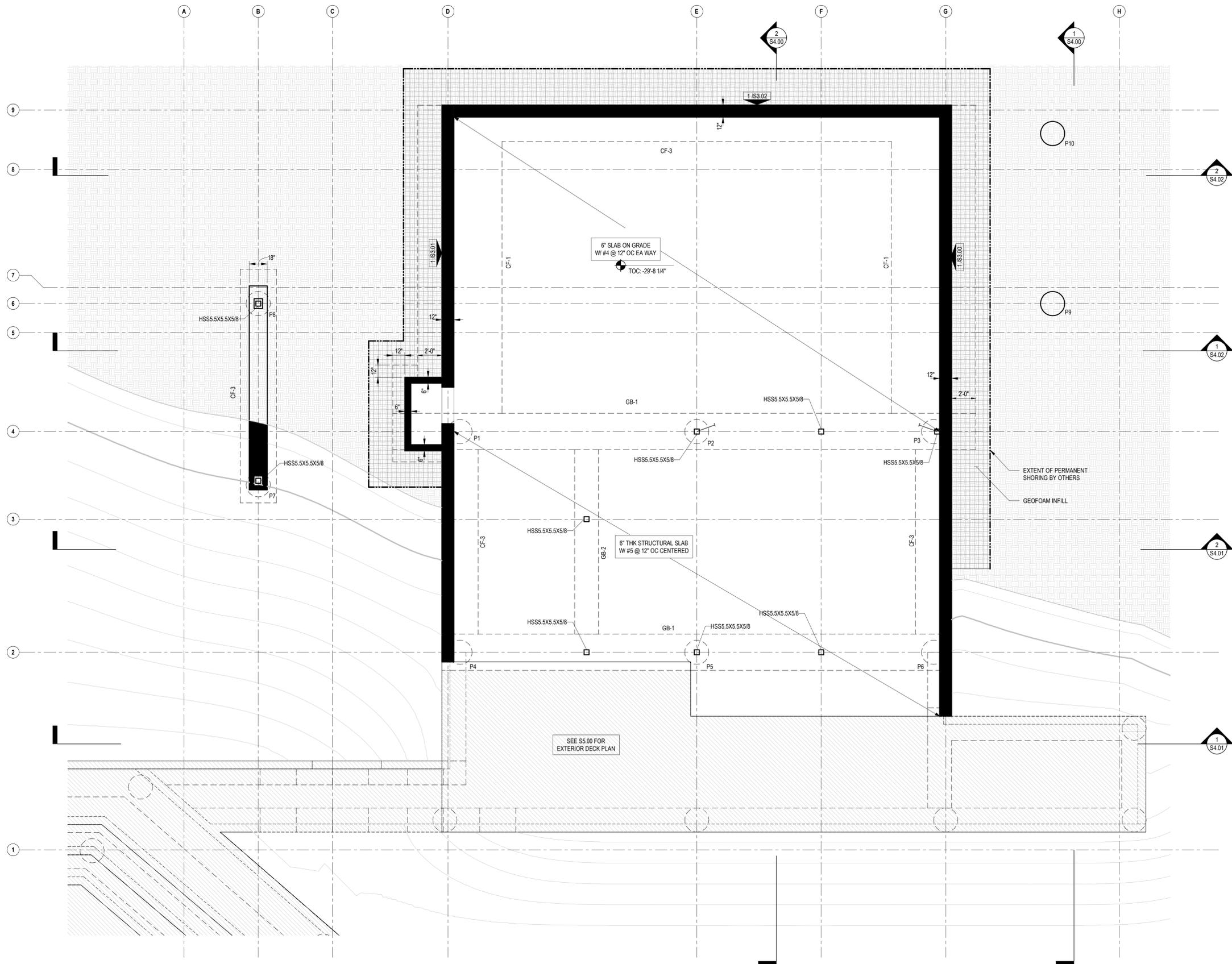
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SITE PLAN	S1.00

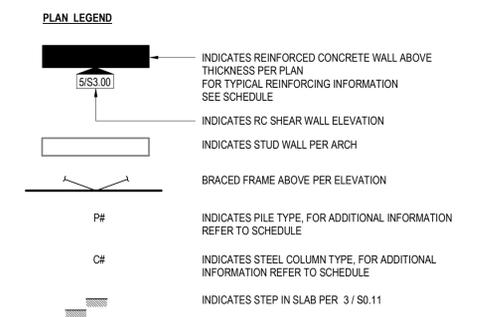


FRICTION PILE SCHEDULE						
PILE MARK	DIA	EMBED DEPTH, D	ASSUMED DEPTH OF FILL, F	LENGTH OF PILE, L	VERTICAL BARS	SPRAL SIZE & SPACING
P1	2'-0"	25'-0"	1'-6"	26'-6"	(8) #8	#4 @ 6" OC
P2	2'-0"	25'-0"	1'-6"	26'-6"	(8) #8	#4 @ 6" OC
P3	2'-0"	20'-0"	1'-6"	21'-6"	(8) #8	#4 @ 6" OC
P4	2'-0"	30'-0"	6'-0"	36'-0"	(12) #8	#4 @ 6" OC
P5	2'-0"	20'-0"	6'-0"	26'-0"	(12) #8	#4 @ 6" OC
P6	2'-0"	20'-0"	6'-0"	26'-0"	(12) #8	#4 @ 6" OC
P7	2'-0"	20'-0"	4'-6"	24'-6"	(8) #8	#4 @ 6" OC
P8	2'-0"	20'-0"	4'-6"	24'-6"	(8) #8	#4 @ 6" OC
P9	2'-0"	20'-0"	13'-0"	33'-0"	(8) #8	#4 @ 6" OC
P10	2'-0"	20'-0"	16'-0"	36'-0"	(8) #8	#4 @ 6" OC

GRADE BEAM SCHEDULE								
TYPE MARK	WIDTH, W	DEPTH, D	LONGITUDINAL REINFORCEMENT				TRANSVERSE REINFORCEMENT	
			TOP BARS	BOTTOM BARS	SIDE BARS (EA SIDE)	TIES	ADDITIONAL TIES	
GB-1	36"	36"	(6) #8	(6) #8			(4) #4 @ 16" OC	
GB-2	24"	24"	(4) #6	(4) #6			#4 @ 6" OC	
GB-3	24"	18"	(4) #6	(4) #6			#4 @ 6" OC	

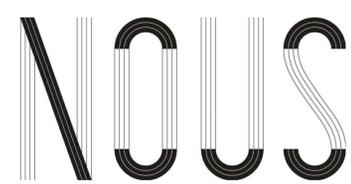
CONTINUOUS FOOTING SCHEDULE					
TYPE MARK	WIDTH, W	DEPTH, D	TOP BARS	BOTTOM BARS	TIES
CF-1	7'-0"	2'-0"	(8) #8	(8) #6	#5 @ 8" OC
CF-2	3'-0"	1'-6"	(4) #6	(4) #6	#5 @ 8" OC
CF-3	3'-0"	2'-0"	(4) #5	(4) #5	#5 @ 12" OC
CF-4	2'-0"	1'-6"	(3) #5	(3) #5	#5 @ 12" OC

REINFORCED CONCRETE WALL SCHEDULE			
TYPE	WALL THICKNESS	VERTICAL REINF	HORIZONTAL REINF
RC 6"	6"	#6 @ 12" OC, CENTERED	#6 @ 12" OC, CENTERED
RC 8"	8"	#8 @ 12" OC, CENTERED	#6 @ 12" OC, CENTERED
RC 12"	12"	#6 @ 12" OC, EA FACE	#6 @ 12" OC, EA FACE



- FOUNDATION PLAN NOTES:**
- TOP OF FOOTING GRADE BEAM ELEVATION TO BE 1'-0" BELOW TOP OF SLAB OR FINISHED GRADE, UON.
 - REFER TO S0 SERIES SHEETS FOR GENERAL NOTES AND TYPICAL DETAILS.
 - ALL SETTING OUT DIMENSIONS ARE TO BE READ IN CONJUNCTION AND CONFIRMED WITH ARCHITECTURAL DRAWINGS.
 - PRIOR TO REQUESTING A BUILDING DEPARTMENT FOUNDATION INSPECTION, THE SOILS ENGINEER/GEOTECHNICAL CONSULTANT SHALL INSPECT AND IMPROVE THE FOUNDATION EXCAVATIONS. EXCAVATIONS SHALL BE MADE AS NEAR AS POSSIBLE TO THE NEAT LINES REQUIRED BY THE SIZE AND SHAPE OF THE STRUCTURE. NO MATERIAL IS TO BE EXCAVATED UNNECESSARILY.
 - CURBS AND DEPRESSIONS ARE SHOWN FOR REFERENCE ONLY. SEE ARCH DWGS FOR LOCATIONS, HEIGHT, AND THICKNESS.
 - SEE ARCH DWGS FOR EDGE OF SLAB LOCATIONS.
 - VERIFY LOCATION OF UNDERGROUND UTILITIES BEFORE EXCAVATIONS. NOTIFY ARCHITECT PRIOR TO EXCAVATION IN THE EVENT SUCH UTILITIES ARE ENCOUNTERED.
 - FOR DRAINAGE DETAILS, SUMPS, PITS, DAMP PROOFING, TRENCHES, CURBS, EXTERIOR WALKS, UTILITIES, EQUIPMENT DETAILS, STEPS, ETC., SEE DRAWINGS OTHER THAN STRUCTURAL.
 - SLAB CONSTRUCTION AND CONTROL JOINT LOCATIONS SHALL BE APPROVED BY THE ARCHITECT PRIOR TO PLACING ANY CONCRETE.
 - PROVIDE A 6" CURB AT EXTERIOR TIMBER WALLS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS.

1 LOWER LEVEL FOUNDATION PLAN
1/4" = 1'-0"



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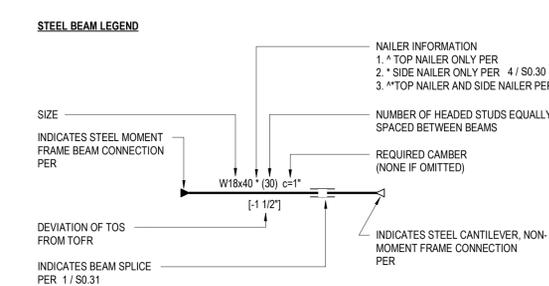
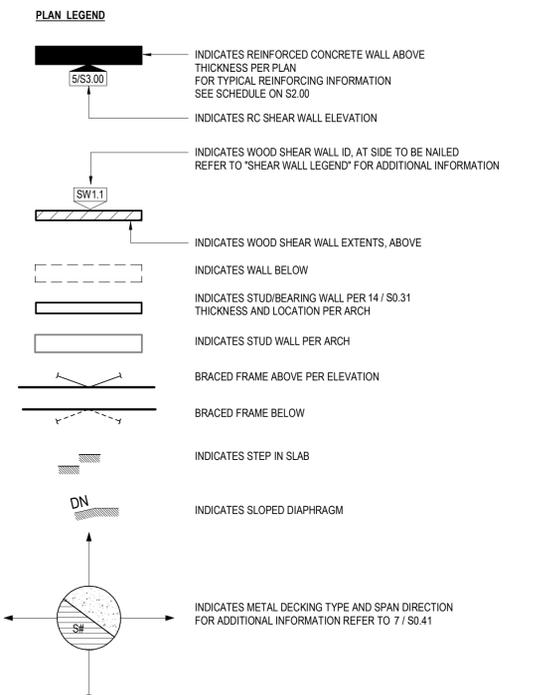
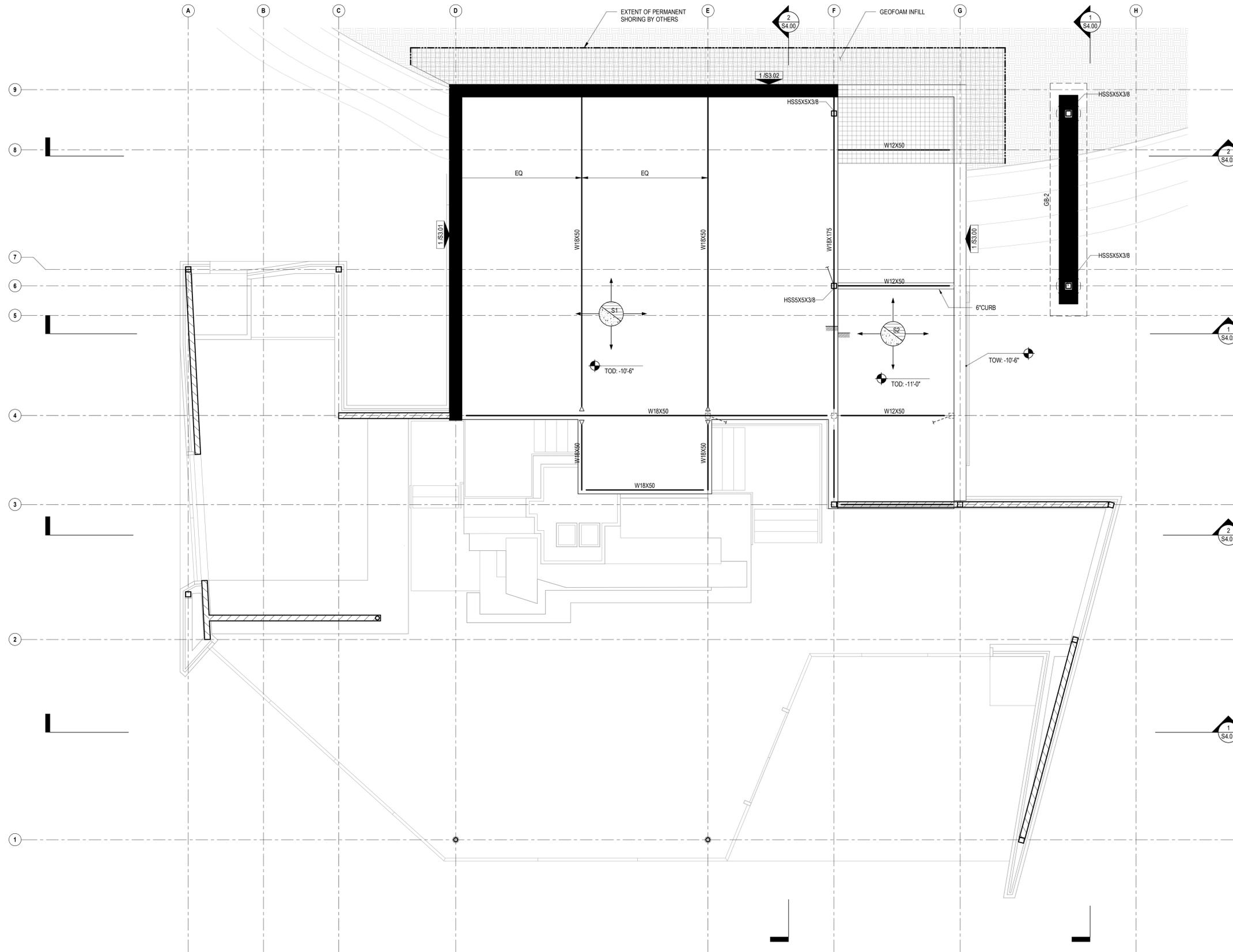
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HILLSIDE REVIEW

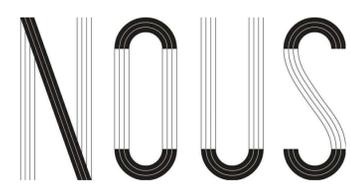
SCALE: AS NOTED	DATE: 3/16/2018
DRAWN: HB	CHECKED: MM
SHEET: S2.00	



FRAMING PLAN NOTES:

- REFER TO S2.01 FOR ADDITIONAL INFORMATION.

1 KITCHEN FRAMING PLAN
1/4" = 1'-0"



POWDER MOUNTAIN HOUSE

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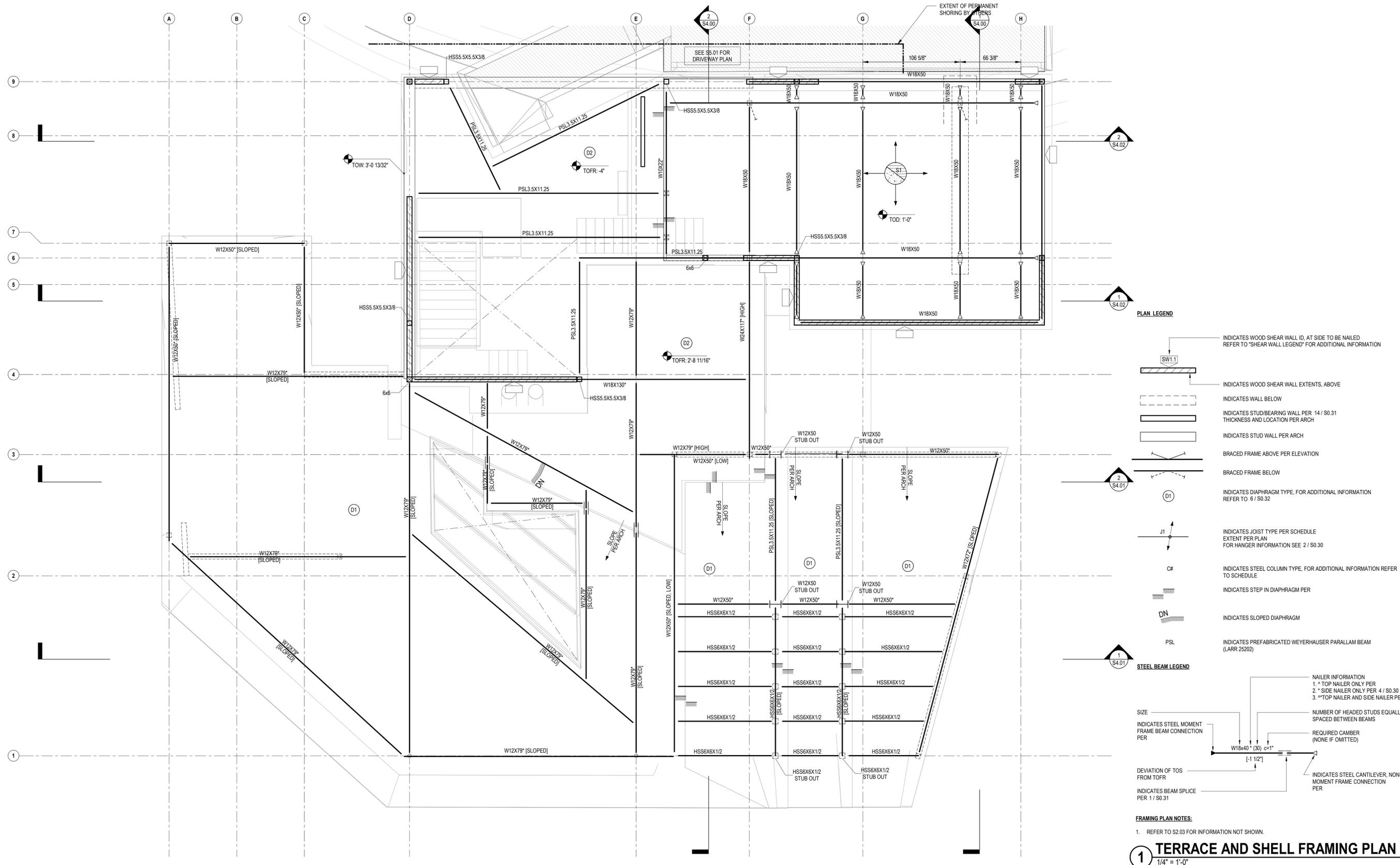
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SHEET: KITCHEN FRAMING PLAN	S2.02

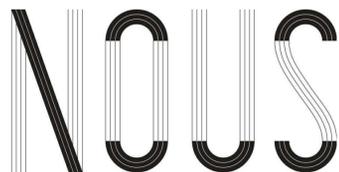


- PLAN LEGEND**
- INDICATES WOOD SHEAR WALL ID. AT SIDE TO BE NAILED REFER TO "SHEAR WALL LEGEND" FOR ADDITIONAL INFORMATION
 - INDICATES WOOD SHEAR WALL EXTENTS, ABOVE
 - INDICATES WALL BELOW
 - INDICATES STUD/BEARING WALL PER 14 / S0.31 THICKNESS AND LOCATION PER ARCH
 - INDICATES STUD WALL PER ARCH
 - BRACED FRAME ABOVE PER ELEVATION
 - BRACED FRAME BELOW
 - INDICATES DIAPHRAGM TYPE, FOR ADDITIONAL INFORMATION REFER TO 6 / S0.32
 - INDICATES JOIST TYPE PER SCHEDULE EXTENT PER PLAN FOR HANGER INFORMATION SEE 2 / S0.30
 - INDICATES STEEL COLUMN TYPE, FOR ADDITIONAL INFORMATION REFER TO SCHEDULE
 - INDICATES STEP IN DIAPHRAGM PER
 - INDICATES SLOPED DIAPHRAGM
 - INDICATES PREFABRICATED WEYERHAUSER PARALLAM BEAM (LARR 25202)
- STEEL BEAM LEGEND**
- NAILER INFORMATION
1. * TOP NAILER ONLY PER
2. * SIDE NAILER ONLY PER 4 / S0.30
3. * TOP NAILER AND SIDE NAILER PER
 - INDICATES STEEL MOMENT FRAME BEAM CONNECTION PER
 - DEVIATION OF TOS FROM TOFR
 - INDICATES BEAM SPLICE PER 1 / S0.31
 - INDICATES STEEL CANTILEVER, NON-MOMENT FRAME CONNECTION PER
 - NUMBER OF HEADED STUDS EQUALLY SPACED BETWEEN BEAMS
 - REQUIRED CAMBER (NONE IF OMITTED)

FRAMING PLAN NOTES:

- REFER TO S2.03 FOR INFORMATION NOT SHOWN.

1 TERRACE AND SHELL FRAMING PLAN
1/4" = 1'-0"



POWDER MOUNTAIN HOUSE EDEN, UTAH

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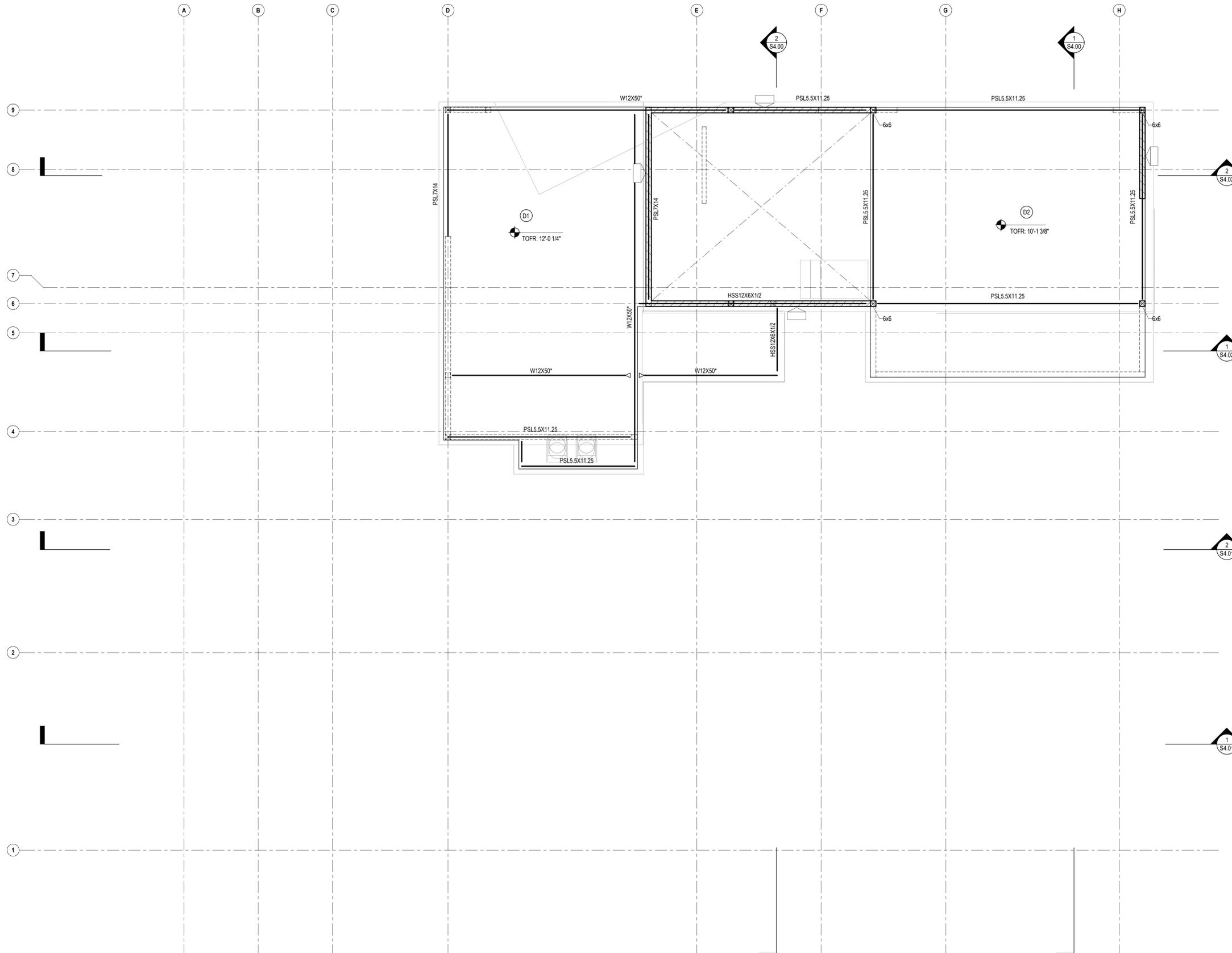
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SHEET: TERRACE AND SHELL FRAMING PLAN	S2.03



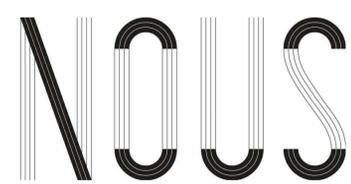
PLAN LEGEND

- INDICATES WOOD SHEAR WALL ID, AT SIDE TO BE NAILED
REFER TO 'SHEAR WALL LEGEND' FOR ADDITIONAL INFORMATION
- INDICATES WOOD SHEAR WALL EXTENTS, ABOVE
- INDICATES WALL BELOW
- INDICATES STUD/BEARING WALL PER 14 / S0.31
THICKNESS AND LOCATION PER ARCH
- INDICATES STUD WALL PER ARCH
- INDICATES DIAPHRAGM TYPE, FOR ADDITIONAL INFORMATION
REFER TO 6 / S0.32
- INDICATES JOIST TYPE PER SCHEDULE 2 / S0.30
EXTENT PER PLAN
FOR HANGER INFORMATION SEE
- INDICATES PREFABRICATED WEYERHAUSER PARALLAM BEAM
(LARR 25202)

FRAMING PLAN NOTES:

1. TOP OF FRAMING PER PLAN (TOFR). SHEATHING ABOVE TOP OF FRAMING.
2. REFER TO S2.04 FOR INFORMATION NOT SHOWN.

1 LOW ROOF & OFFICE FRAMING PLAN
1/4" = 1'-0"



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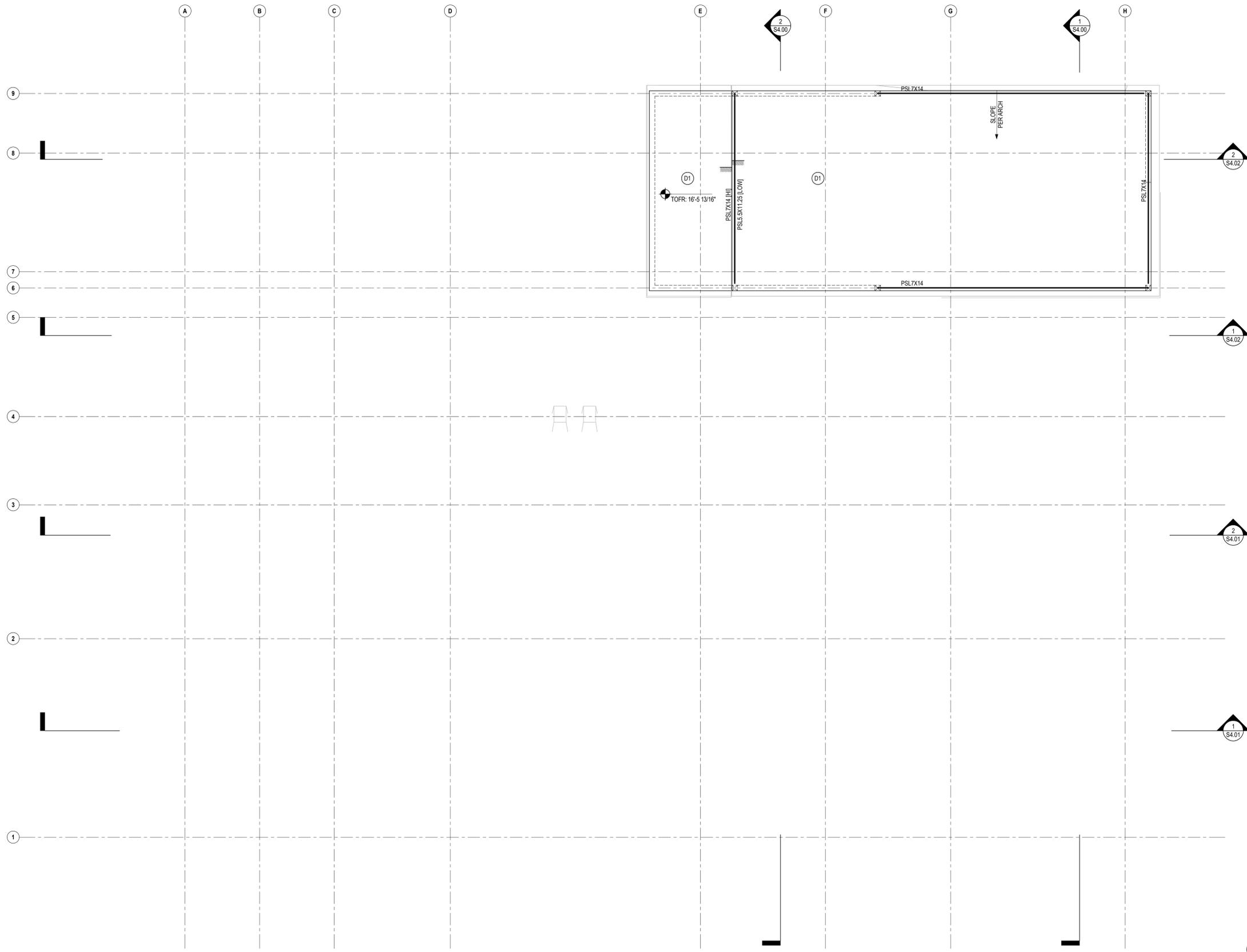
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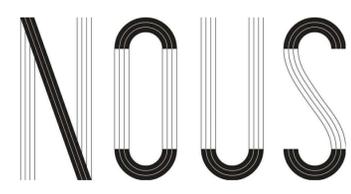
SCALE: AS NOTED	DATE: 3/16/2018
	DRAWN: HB
	CHECKED: MM
LOW ROOF & OFFICE FRAMING PLAN	SHEET: S2.04



- PLAN LEGEND**
-  INDICATES WALL BELOW
 -  INDICATES DIAPHRAGM TYPE, FOR ADDITIONAL INFORMATION REFER TO 6 / S0.32
 -  INDICATES JOIST TYPE PER SCHEDULE EXTENT PER PLAN FOR HANGER INFORMATION SEE 2 / S0.30
 -  INDICATES PREFABRICATED WEYERHAUSER PARALLAM BEAM (LARR 25202)

FRAMING PLAN NOTES:
 1. REFER TO S2.05 FOR INFORMATION NOT SHOWN.

1 HIGH ROOF FRAMING PLAN
 1/4" = 1'-0"



POWDER MOUNTAIN HOUSE

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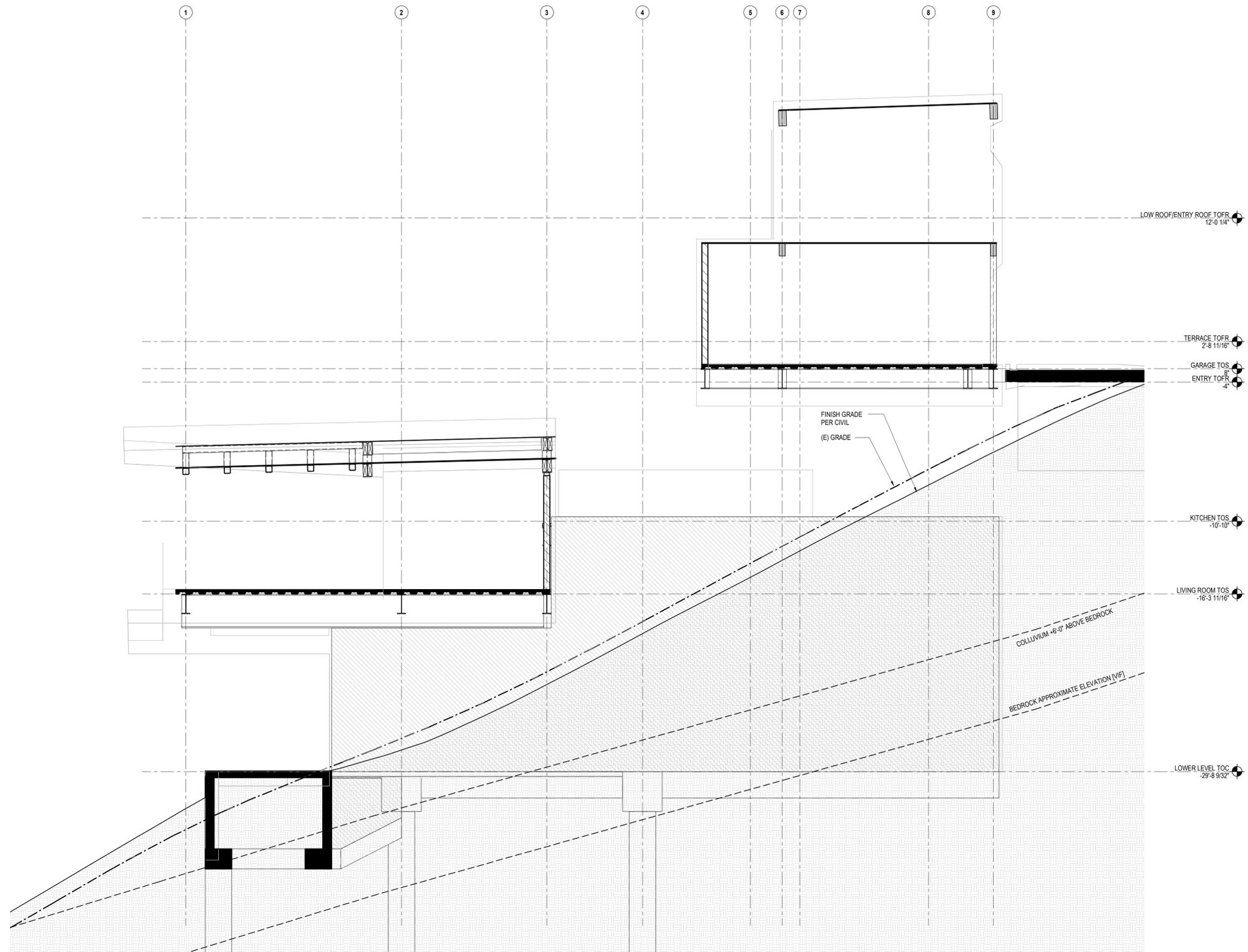
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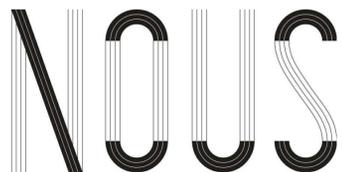
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SHEET: HIGH ROOF FRAMING PLAN	S2.05



1 RC WALL ELVATION - EAST
1/4" = 1'-0"



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POWDER MOUNTAIN HOUSE

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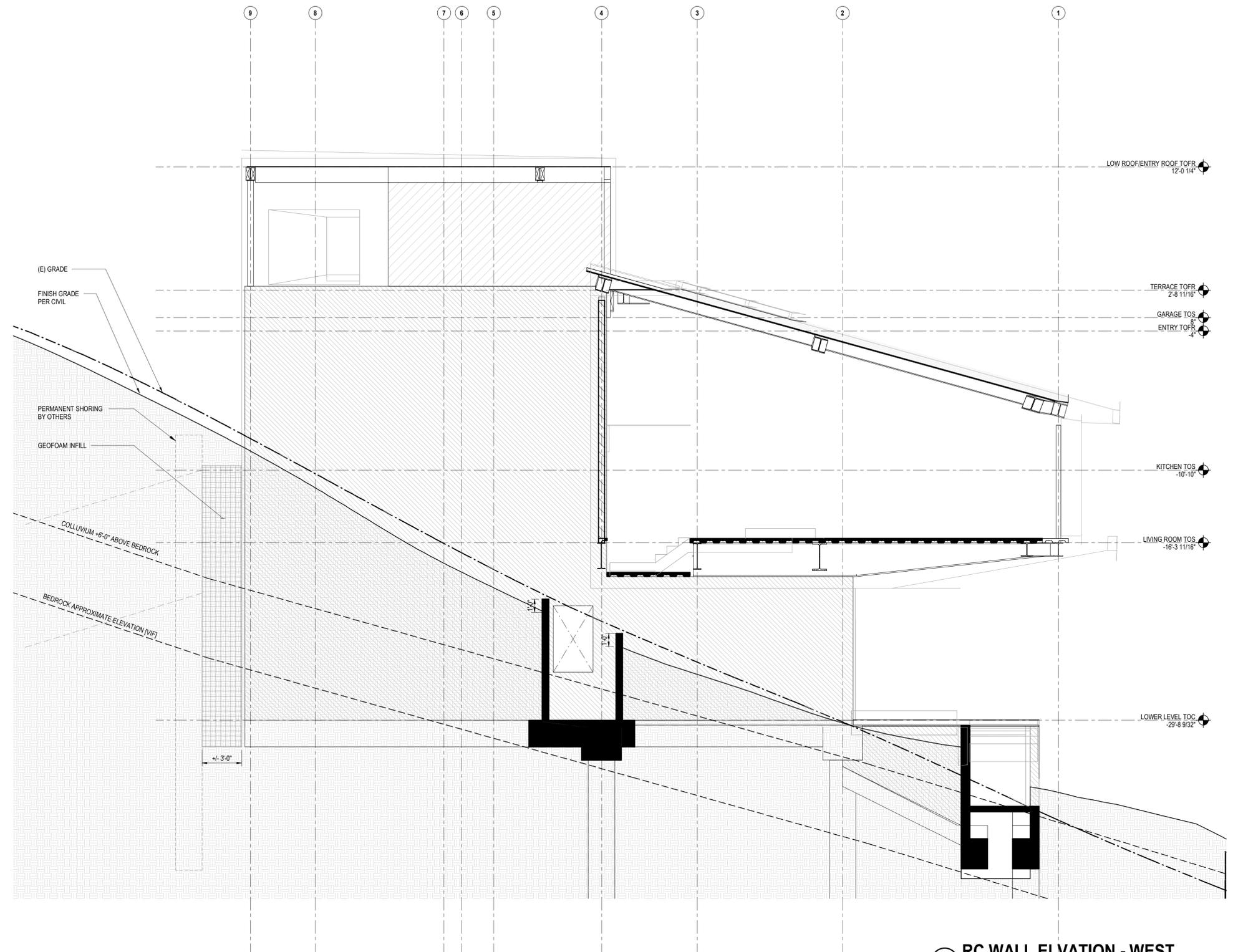
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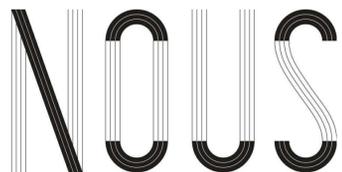
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SHEET: RC WALL ELEVATION	S3.00



1 RC WALL ELVATION - WEST
 1/4" = 1'-0"



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POWDER MOUNTAIN HOUSE

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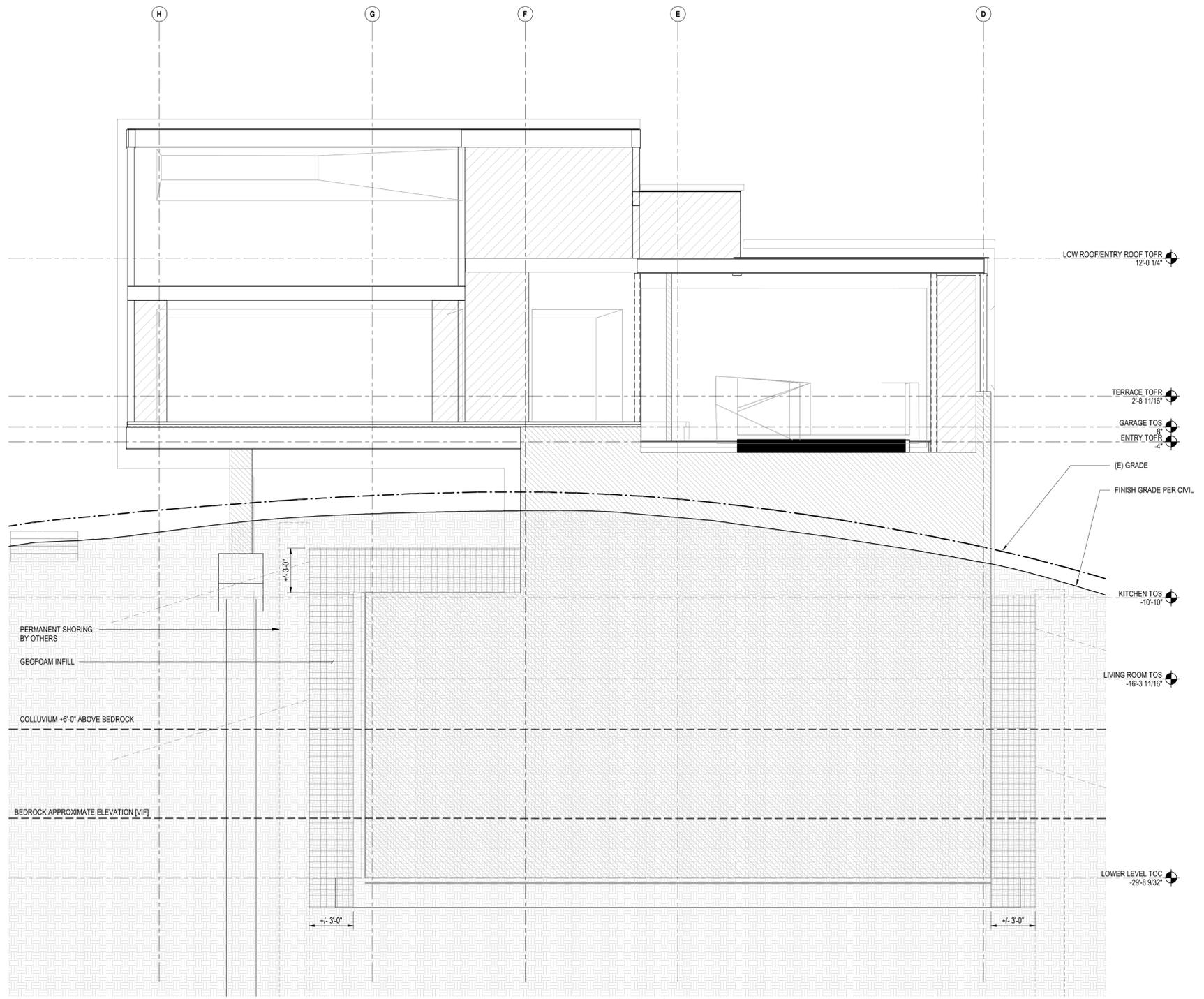
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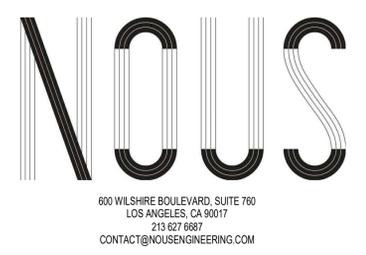
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SHEET: RC WALL ELEVATION	S3.01



1 RC WALL ELVATION - NORTH
 1/4" = 1'-0"



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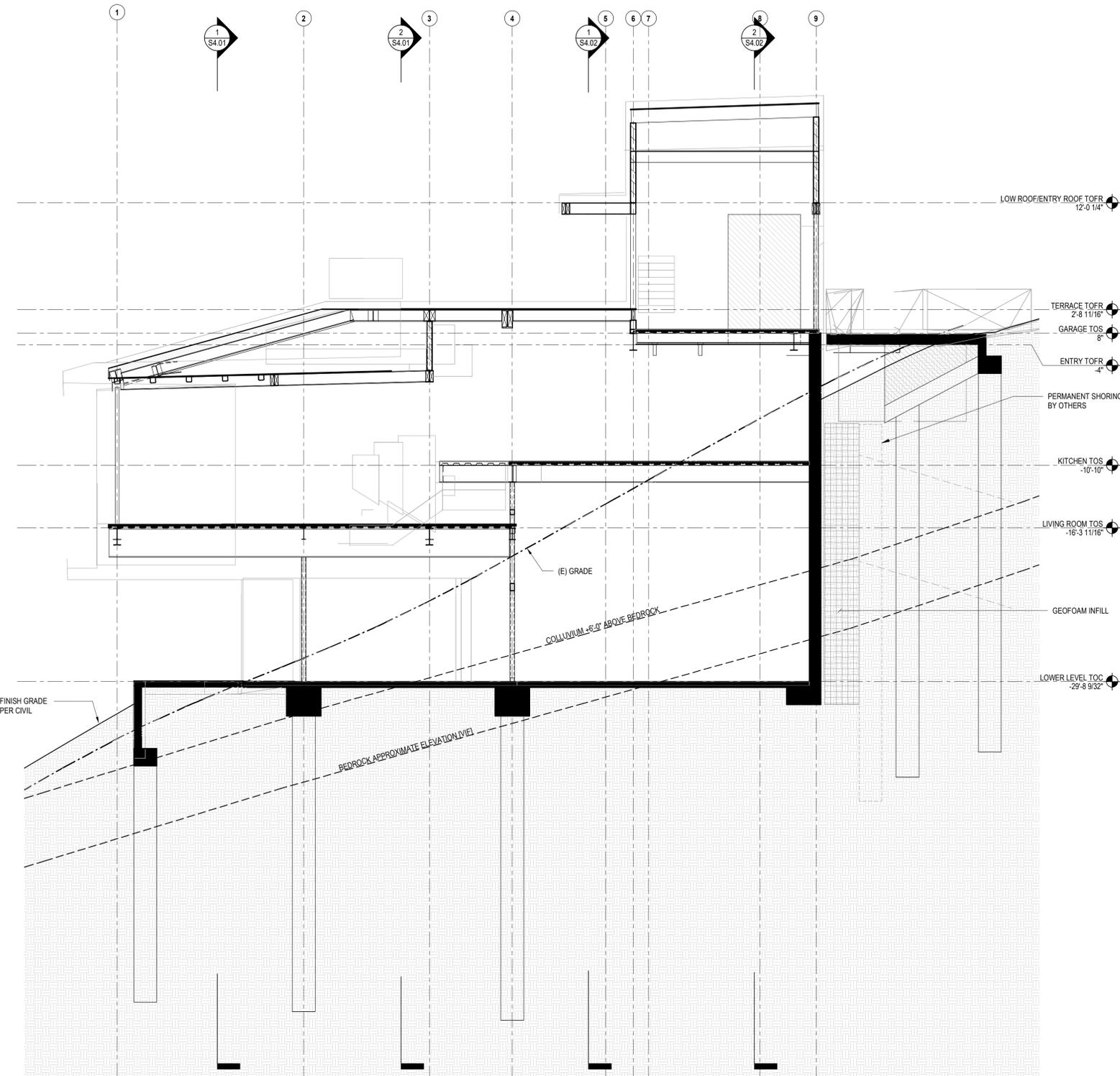
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REVISIONS:

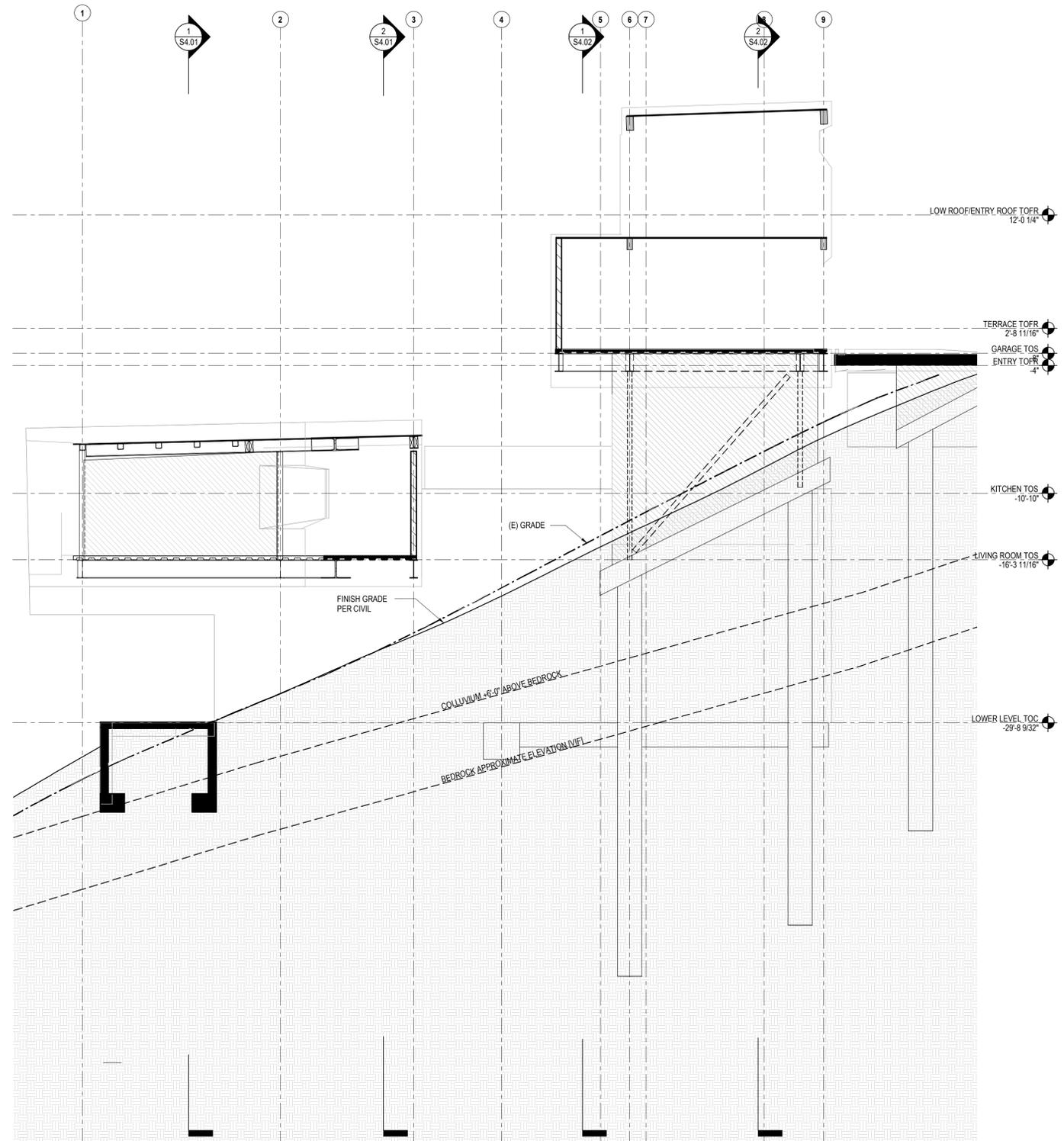
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HILLSIDE REVIEW

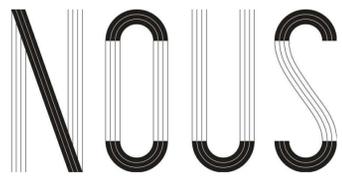
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	DRAWN: Author
	CHECKED: Checker
RC WALL ELEVATION	SHEET: S3.02



2 BUILDING SECTION
3/16" = 1'-0"



1 BUILDING SECTION
3/16" = 1'-0"



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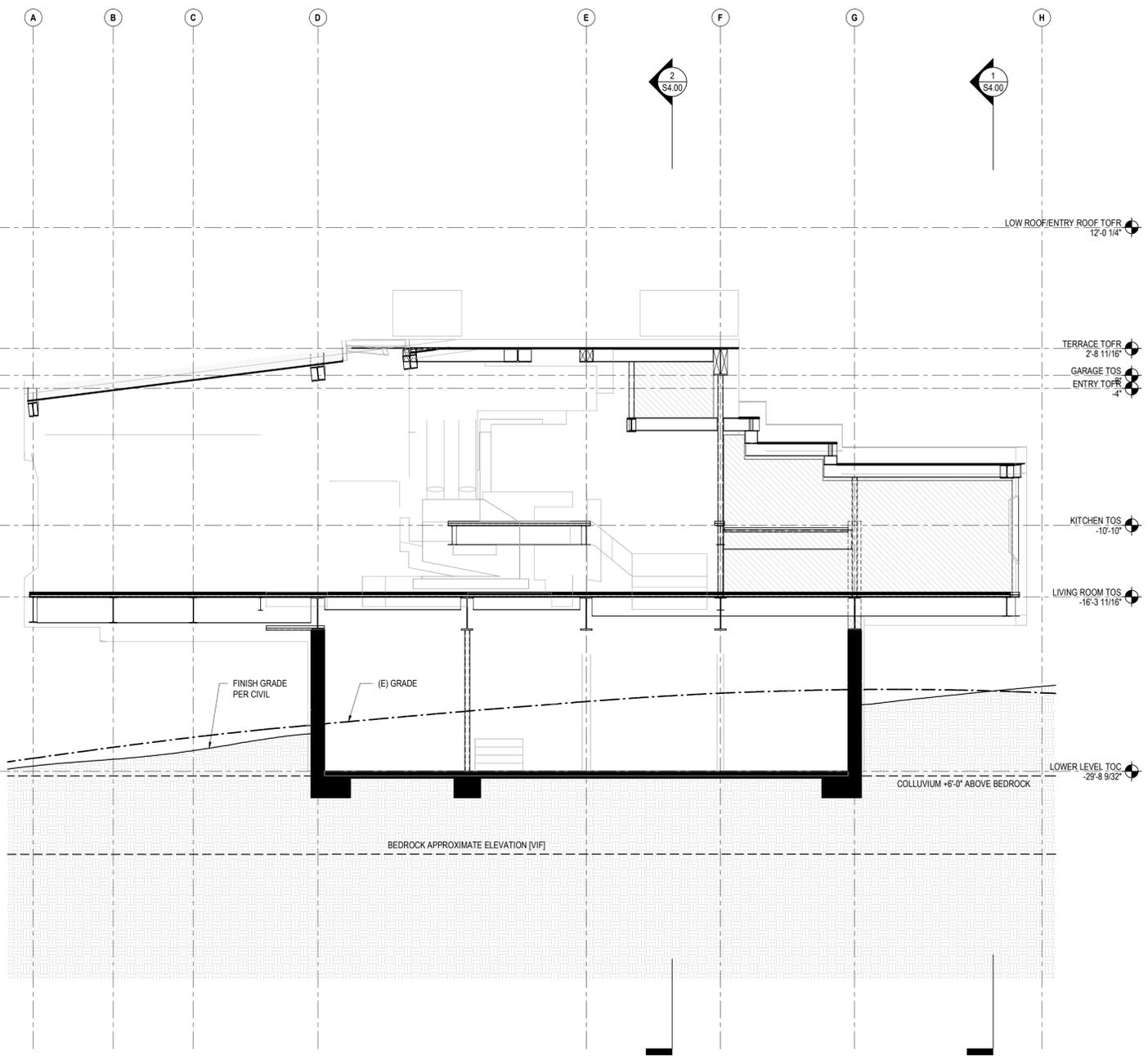
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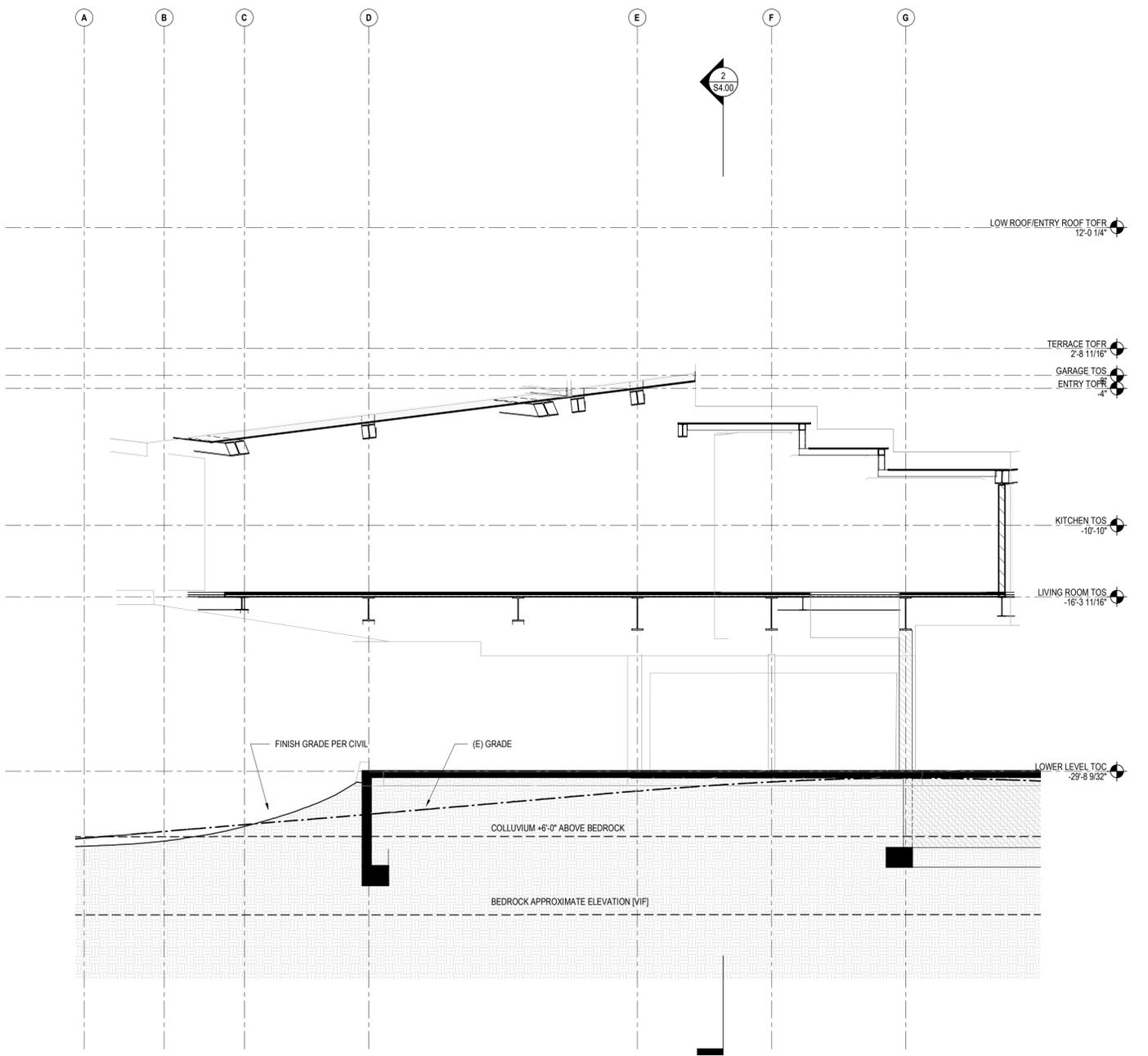
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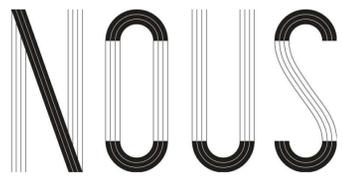
SCALE: AS NOTED	DATE: 3/16/2018
DRAWN: HB	CHECKED: MM
SHEET: S4.00	



2 BUILDING SECTION
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1 BUILDING SECTION
3/16" = 1'-0"



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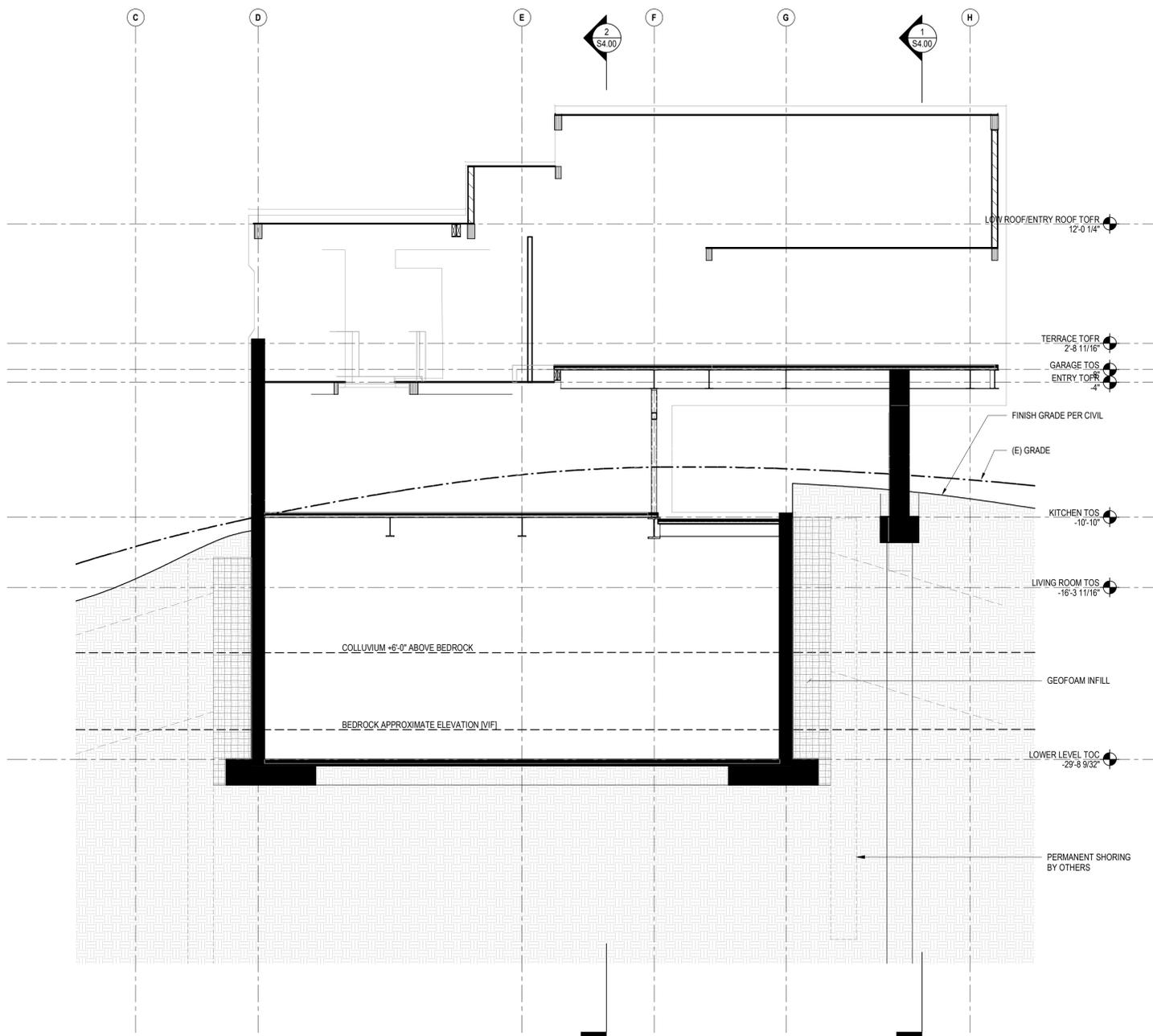
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REVISIONS:

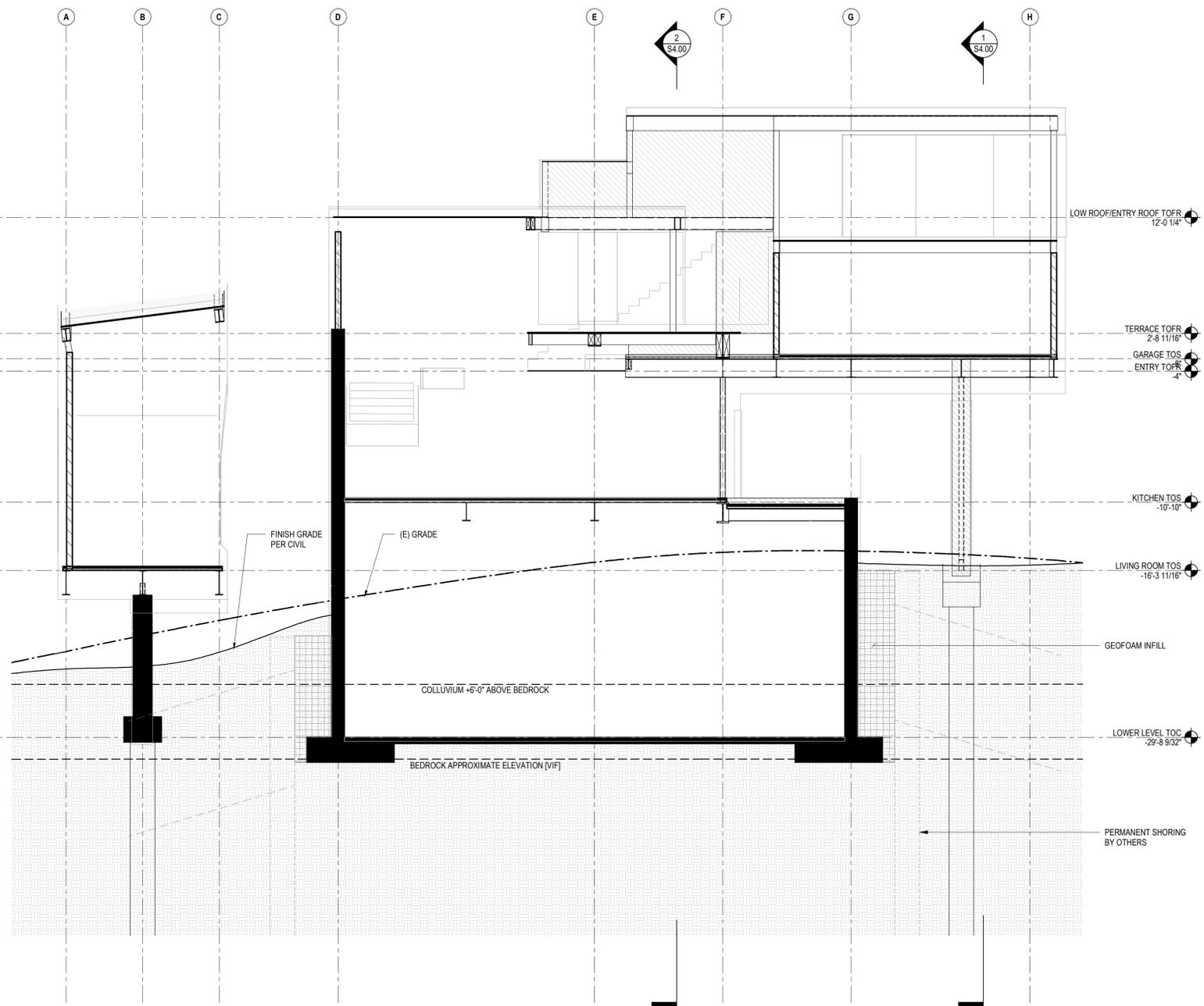
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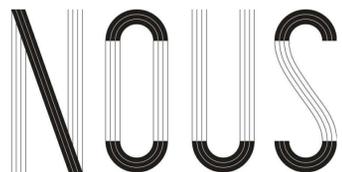
SCALE: AS NOTED	DATE: 3/16/2018
DRAWN: HB	CHECKED: MM
SHEET: BUILDING SECTIONS	S4.01



2 BUILDING SECTION
3/16" = 1'-0"



1 BUILDING SECTION
3/16" = 1'-0"



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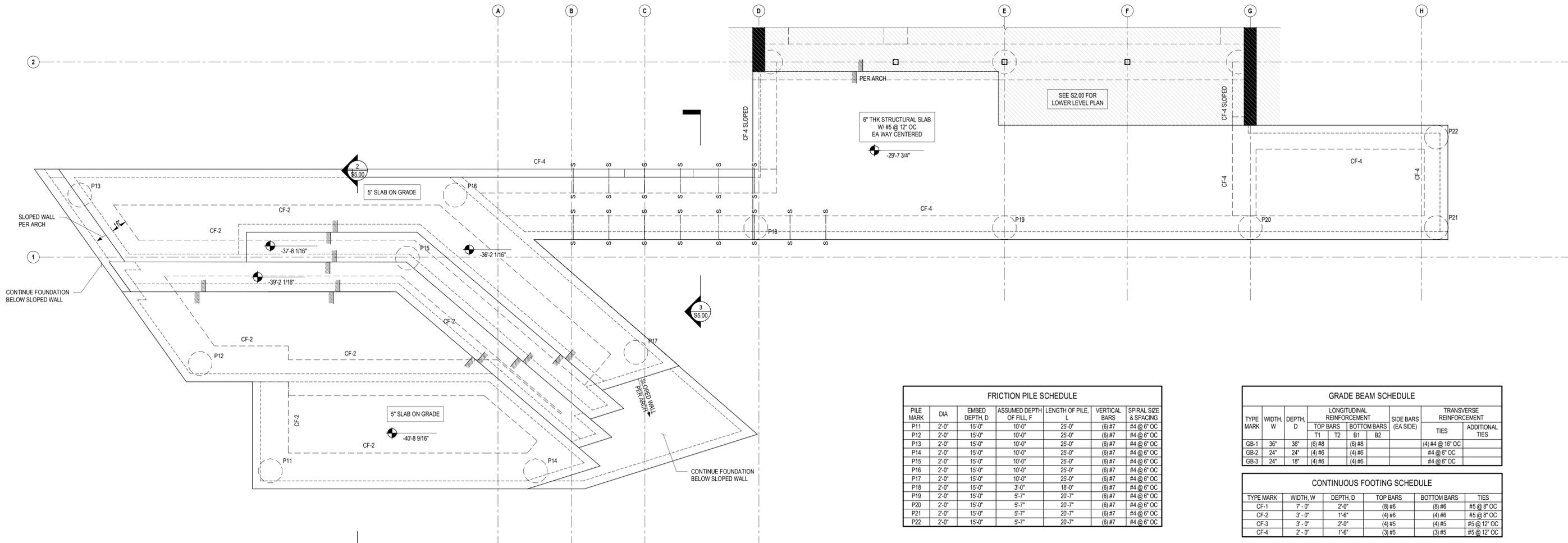
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REVISIONS:

DESCRIPTION:	BY:	DATE:

HILLSIDE REVIEW

SCALE: AS NOTED	DATE: 3/16/2018
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SHEET: BUILDING SECTIONS	
S4.02	

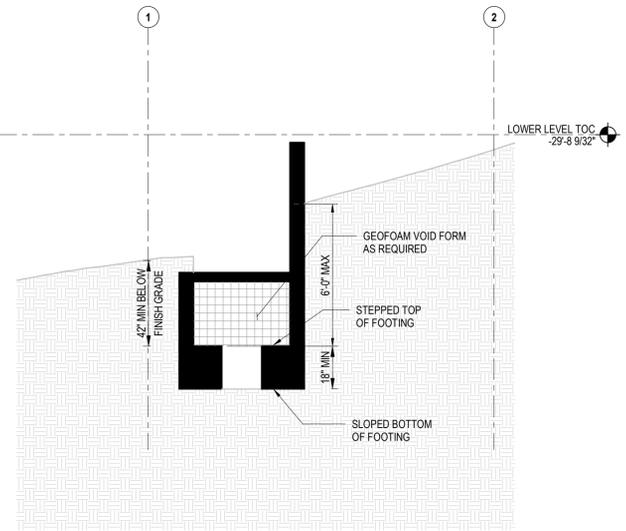
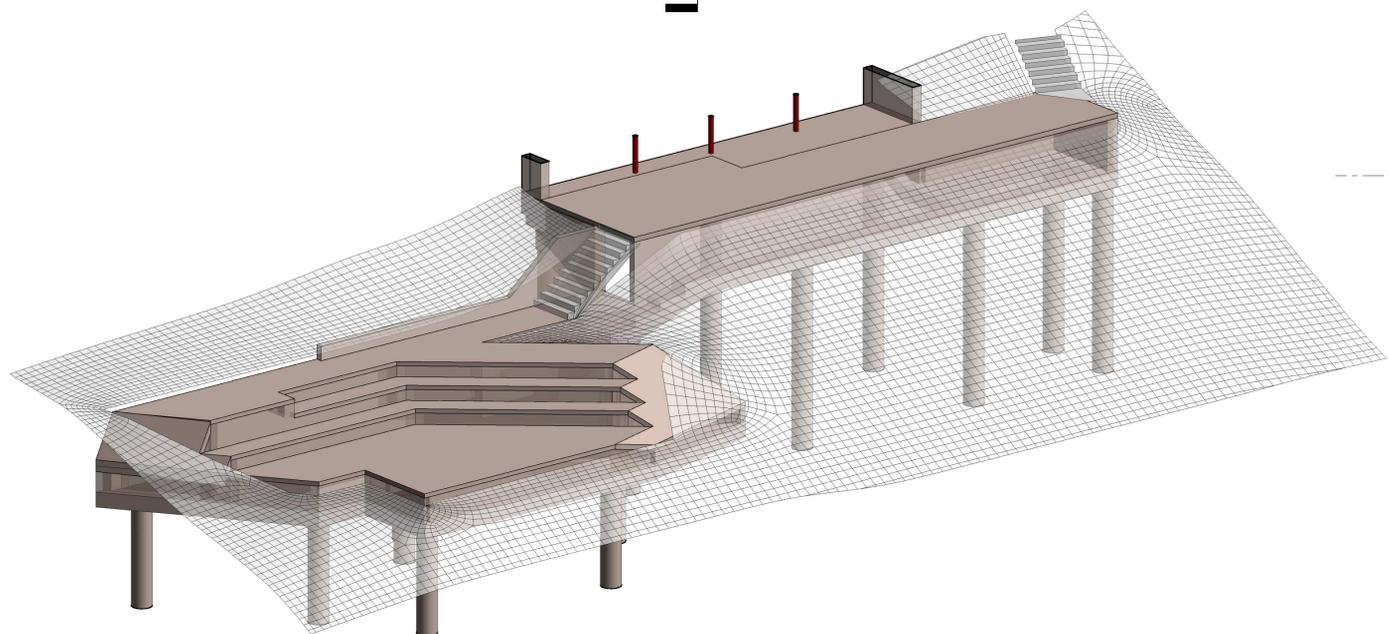


FRICTION PILE SCHEDULE						
PILE MARK	DIA	EMBED DEPTH, D	ASSUMED DEPTH OF FILL, F	LENGTH OF PILE, L	VERTICAL BARS	SPIRAL SIZE & SPACING
P11	2'-0"	15'-0"	10'-0"	25'-0"	(6) #7	#4 @ 6" OC
P12	2'-0"	15'-0"	10'-0"	25'-0"	(6) #7	#4 @ 6" OC
P13	2'-0"	15'-0"	10'-0"	25'-0"	(6) #7	#4 @ 6" OC
P14	2'-0"	15'-0"	10'-0"	25'-0"	(6) #7	#4 @ 6" OC
P15	2'-0"	15'-0"	10'-0"	25'-0"	(6) #7	#4 @ 6" OC
P16	2'-0"	15'-0"	10'-0"	25'-0"	(6) #7	#4 @ 6" OC
P17	2'-0"	15'-0"	10'-0"	25'-0"	(6) #7	#4 @ 6" OC
P18	2'-0"	15'-0"	3'-0"	18'-0"	(6) #7	#4 @ 6" OC
P19	2'-0"	15'-0"	5'-7"	20'-7"	(6) #7	#4 @ 6" OC
P20	2'-0"	15'-0"	5'-7"	20'-7"	(6) #7	#4 @ 6" OC
P21	2'-0"	15'-0"	5'-7"	20'-7"	(6) #7	#4 @ 6" OC
P22	2'-0"	15'-0"	5'-7"	20'-7"	(6) #7	#4 @ 6" OC

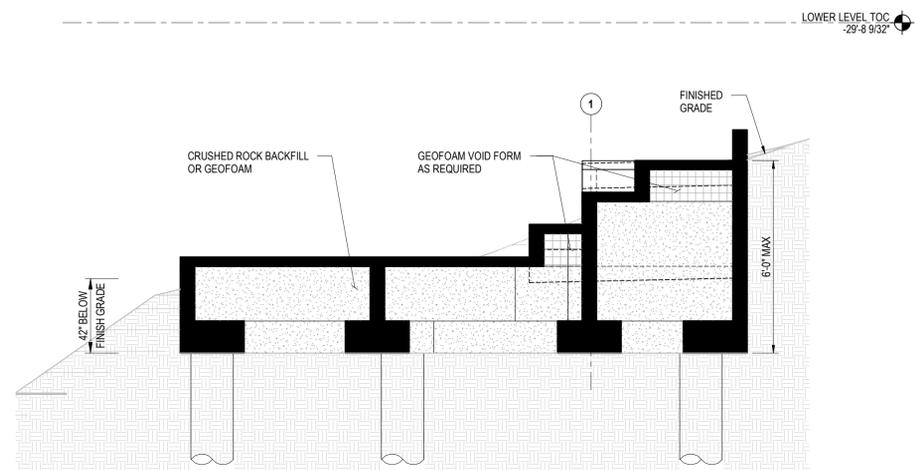
GRADE BEAM SCHEDULE							
TYPE MARK	WIDTH, W	DEPTH, D	LONGITUDINAL REINFORCEMENT			TRANSVERSE REINFORCEMENT	
			TOP BARS T1	BOTTOM BARS B1	B2	SIDE BARS (EA SIDE)	TIES
GB-1	36"	36"	(6) #8	(6) #8			(4) #4 @ 16" OC
GB-2	24"	24"	(4) #8	(4) #8			#4 @ 6" OC
GB-3	24"	18"	(4) #8	(4) #8			#4 @ 6" OC

CONTINUOUS FOOTING SCHEDULE					
TYPE MARK	WIDTH, W	DEPTH, D	TOP BARS	BOTTOM BARS	TIES
CF-1	7'-0"	2'-0"	(8) #6	(8) #6	#5 @ 8" OC
CF-2	3'-0"	1'-6"	(4) #6	(4) #6	#5 @ 8" OC
CF-3	3'-0"	2'-0"	(4) #6	(4) #6	#5 @ 12" OC
CF-4	2'-0"	1'-6"	(3) #6	(3) #6	#5 @ 12" OC

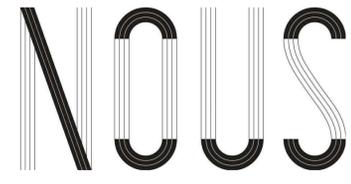
1 LOWER LEVEL EXTERIOR PATIO PLAN
1/4" = 1'-0"



3 PATIO BENCHES SECTION
1/4" = 1'-0"



2 PATIO BENCHES SECTION
1/4" = 1'-0"



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SHEET: S5.00	

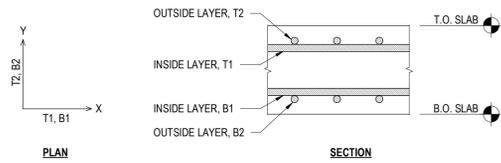
FRICTION PILE SCHEDULE						
PILE MARK	DIA	EMBED DEPTH, D	ASSUMED DEPTH OF FILL, F	LENGTH OF PILE, L	VERTICAL BARS	SPIRAL SIZE & SPACING
P23	2'-0"	15'-0"	18'-0"	33'-0"	(6) #7	#4 @ 6" OC
P24	2'-0"	15'-0"	18'-0"	33'-0"	(6) #7	#4 @ 6" OC
P25	2'-0"	15'-0"	18'-0"	33'-0"	(6) #7	#4 @ 6" OC
P26	2'-0"	15'-0"	18'-0"	33'-0"	(6) #7	#4 @ 6" OC

CONTINUOUS FOOTING SCHEDULE					
TYPE MARK	WIDTH, W	DEPTH, D	TOP BARS	BOTTOM BARS	TIES
CF-1	7'-0"	2'-0"	(6) #6	(4) #6	#5 @ 8" OC
CF-2	3'-0"	1'-6"	(4) #6	(4) #6	#5 @ 8" OC
CF-3	3'-0"	2'-0"	(4) #5	(4) #5	#5 @ 12" OC
CF-4	2'-0"	1'-6"	(3) #5	(3) #5	#5 @ 12" OC

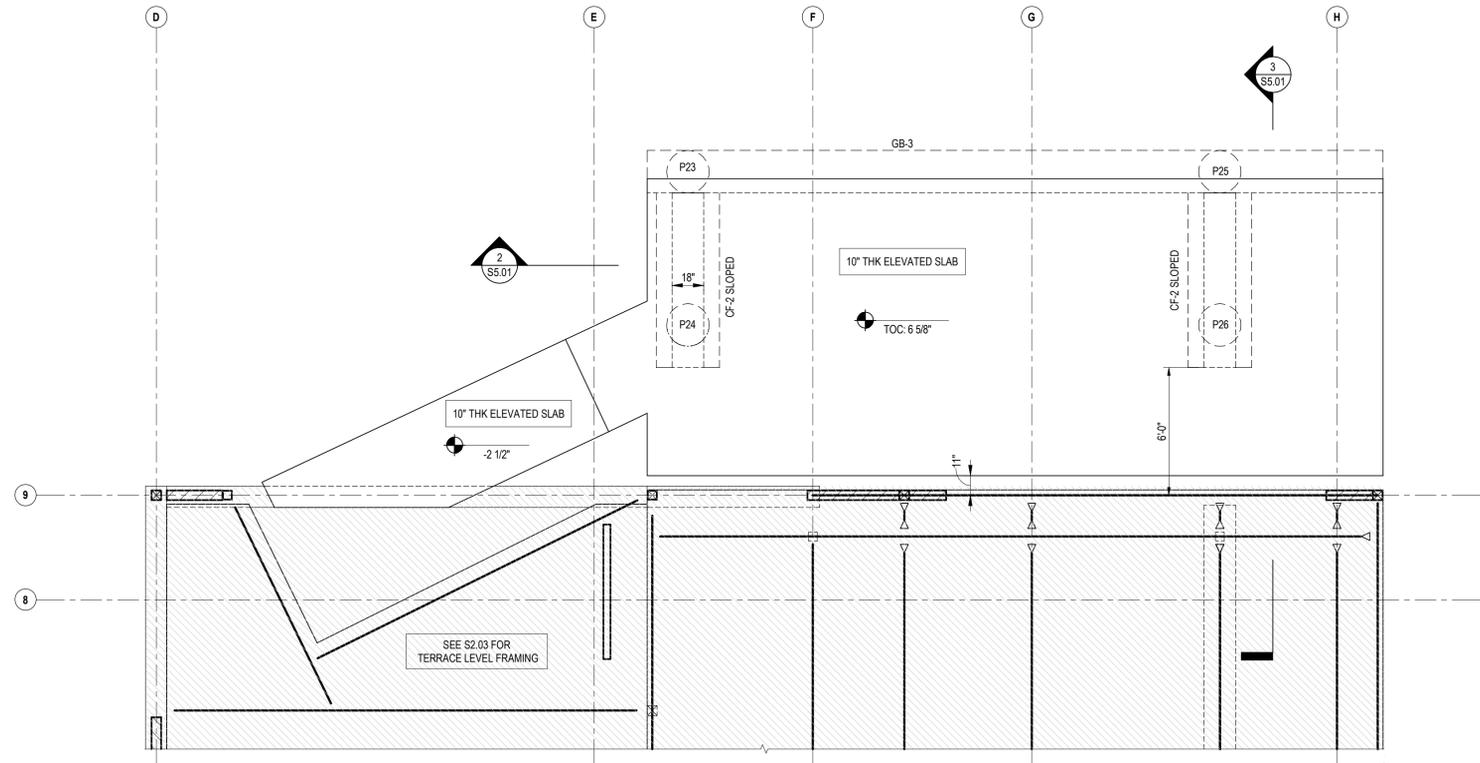
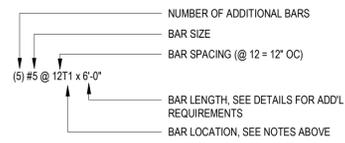
GRADE BEAM SCHEDULE								
TYPE MARK	WIDTH, W	DEPTH, D	LONGITUDINAL REINFORCEMENT				TRANSVERSE REINFORCEMENT	
			TOP BARS	BOTTOM BARS	SIDE BARS (EA SIDE)	TIES	ADDITIONAL TIES	
GB-1	36"	36"	(6) #8	(6) #8		(4) #4 @ 16" OC		
GB-2	24"	24"	(4) #6	(4) #6		#4 @ 6" OC		
GB-3	24"	18"	(4) #6	(4) #6		#4 @ 6" OC		

REINFORCEMENT PLAN NOTES:

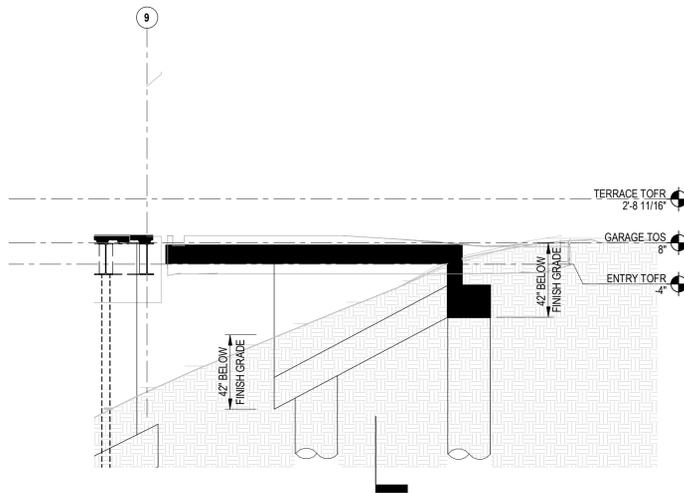
- SEE FRAMING PLAN FOR THE TOP OF CONCRETE SLAB ELEVATION AND THICKNESS. SLAB TO HAVE A CONTINUOUS MESH OF T&B REINFORCEMENT. SEE TYPICAL DETAILS FOR REBAR PLACEMENT INFORMATION.
- ADDL REINFORCEMENT TO BE CENTERED ON COLUMN LON.
- ADDL REINFORCEMENT TO BE DISTRIBUTED EVENLY ACROSS EXTENTS AS INDICATED.
- FOR LOCATIONS WHERE REINFORCING AT OPENINGS CANNOT BE EXTENDED BEYOND EDGE TO PROVIDE REQUIRED TENSION DEVELOPMENT, PROVIDE HOOKED BARS.
- ALL REINFORCING SHALL BE PLACE WITH THE NORTH-SOUTH (Y-DIRECTION) LAYER ON THE OUTSIDE AND THE EAST-WEST (X-DIRECTION) LAYER ON THE INSIDE AS FOLLOWS:



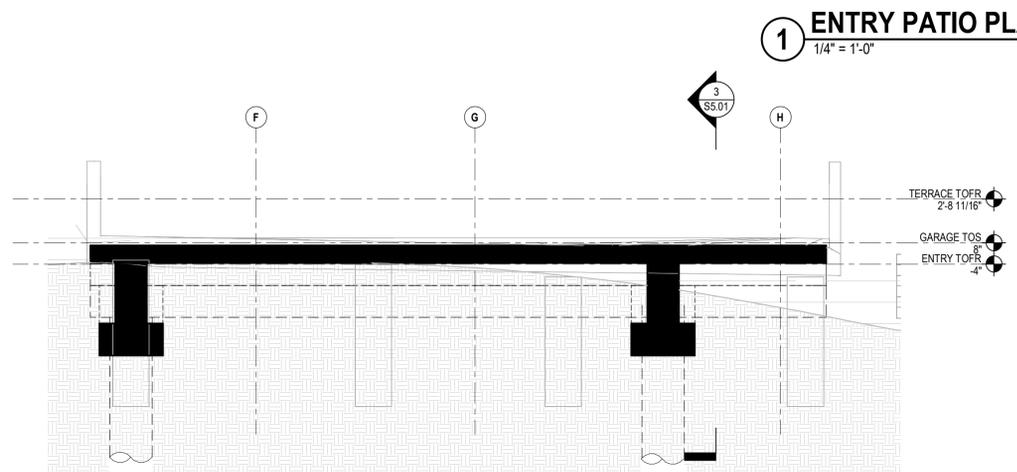
- ADDL REINFORCING TO BE PROVIDED AS FOLLOWS:



2
S5.01

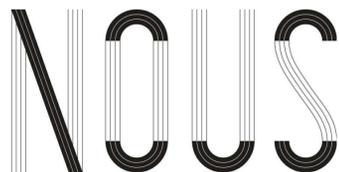


3
1/4\"/>



2
1/4\"/>

1
1/4\"/>



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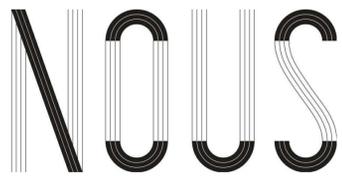
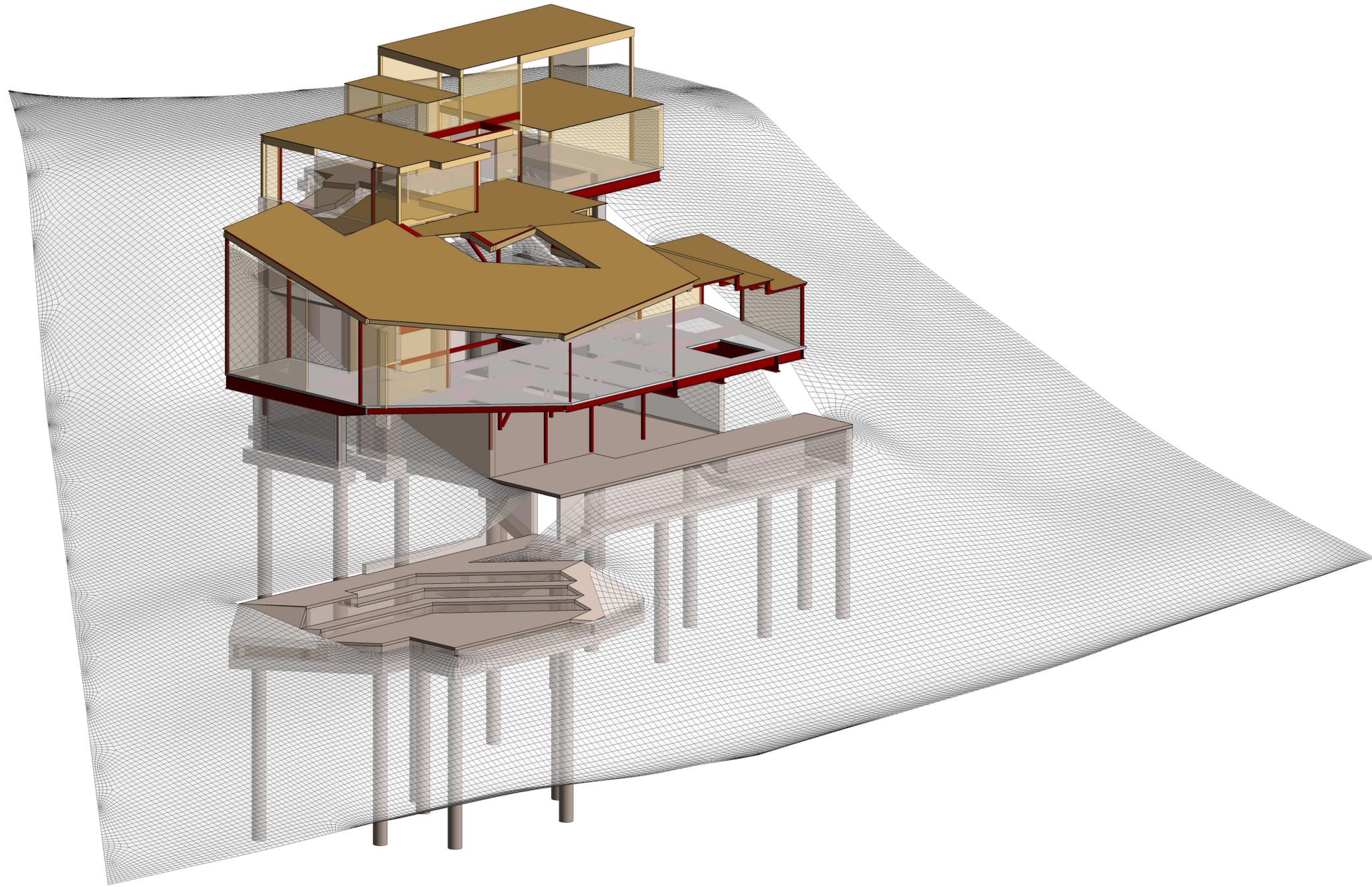
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DESCRIPTION:	BY:	DATE:

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SCALE: AS NOTED	DATE: 3/16/2018
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SHEET: ENTRY PARTIAL PLAN	S5.01



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DRAWN: Author	CHECKED: Checker
3D VIEWS	SHEET: S6.00