

# GENERAL NOTES & 2018 WSEC REQUIREMENTS + 2018 IRC REQUIREMENTS

- ALL WORK SHALL CONFORM TO APPLICABLE CODES, INCLUDING BUT NOT LIMITED TO THE 2018 INTERNATIONAL BUILDING CODE, INTERNATIONAL RESIDENTIAL CODE, THE CURRENT WASHINGTON STATE ENERGY CODE, THE WASHINGTON STATE BUILDING CODE, CHAPTER 51-30 AND 51-31 WA, THE AMERICANS WITH DISABILITIES ACT, AND ALL RULES, REGULATIONS AND ORDINANCES OF THE GOVERNING AUTHORITY IN SECTION 1505.4.2.
- ENGINEERED DESIGN IN ACCORDANCE WITH THE IRC IS PERMITTED.
- THE GENERAL CONTRACTOR SHALL VERIFY ALL CONDITIONS, AND SHALL NOTIFY THE ARCHITECT IMMEDIATELY IN WRITING OF ANY DISCREPANCIES, ERRORS, OR OMISSIONS PRIOR TO PROCEEDING WITH THE WORK.
- DO NOT SCALE THE DRAWINGS FOR CRITICAL DIMENSIONS. DIMENSIONS ARE SHOWN TO FACE OF STUDIOS, POSTS AND CONCRETE UNLESS INDICATED OTHERWISE.
- THE PROJECT SHALL BE SCHEDULED AND INSTALLATION OF ELEMENTS COORDINATED AS NECESSARY BY THE CONTRACTOR TO PERMIT WORK BETWEEN DIFFERENT TRADES TO PROCEED WITHOUT UPSETTING PROPER CONSTRUCTION SEQUENCES OR DELAYING THE PROJECT SCHEDULE.
- CONTRACTOR SHALL PROVIDE ADEQUATE SHORING AND BRACING OF ALL STRUCTURAL MEMBERS DURING CONSTRUCTION.
- THE CONTRACTOR SHALL VERIFY ALL DOOR AND WINDOW ROUGH-OPENING DIMENSIONS WITH THE DOOR AND WINDOW MANUFACTURERS.
- PLUMBING, ELECTRICAL, AND MECHANICAL CONTRACTORS SHALL VERIFY ALL REQUIREMENTS FOR THIS PROJECT AND COMPLY WITH ALL LOCAL CODES. SUBMIT PLANS FOR APPROVAL, AND OBTAIN PERMIT BEFORE PROCEEDING WITH THE WORK.
- SHOWN ONLY ONCE. TYPICAL DETAILS ARE NOT REFERENCED AT ALL LOCATIONS; THE INTENT IS THAT THEY APPLY THROUGHOUT THE PROJECT UNLESS OTHERWISE NOTED.
- ALL REQUIRED SHOP DRAWINGS AND SUBMITTALS SHALL BE REVIEWED BY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
- ALL DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE REGISTERED PROFESSIONAL IN RESPONSIBLE CHARGE WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL WITH NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE TO THE DESIGN OF THE BUILDING; THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DEFERRED SUBMITTAL DOCUMENT HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.
- ALL SHOP DRAWING DIMENSIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE CAUSED BY HIMSELF OR OTHER TRADES.
- INSPECTIONS ARE TO BE PER IRC SECTION R109.
- ADDRESS MUST BE SHOWN AT CONSTRUCTION SITE. PER IRC SEC 6316 BUILDINGS SHALL HAVE APPROVED ADDRESS NUMBERS. BUILDING NUMBERS OR APPROVED BUILDING IDENTIFICATION PLACED IN A POSITION THAT IS PLAINLY LEGIBLE AND VISIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY.

## IRC M1505 (WA AMENDMENTS)

### IRC M1505.4: WHOLE-HOUSE VENTILATION SYSTEM

**WAC 51.155-1505 M1505.4:** WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM. EACH DWELLING UNIT SHALL BE EQUIPPED WITH A VENTILATION SYSTEM. THE WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM SHALL BE DESIGNED IN ACCORDANCE WITH SECTIONS M1504.1 THROUGH 1505.4.4.

**IRC M1505.4.1: SYSTEM DESIGN.** THE WHOLE-HOUSE VENTILATION SYSTEM SHALL CONSIST OF ONE OR MORE SUPPLY FANS, ONE OR MORE EXHAUST FANS, OR AN EXHAUST WITH INTAKE FAN. ASSOCIATED FILTERS SHALL BE INSTALLED IN THE WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM WITH SUPPLY AND EXHAUST FANS PER SECTIONS M1505.4.1.2, M1505.4.1.3, M1505.4.1.4 AND M1505.4.1.5. LOCAL EXHAUST FANS ARE PERMITTED TO SERVE AS PART OF THE WHOLE-HOUSE VENTILATION SYSTEM WHEN PROVIDED WITH THE PROPER CONTROLS. THE SYSTEM SHALL BE DESIGNED AND INSTALLED TO EXHAUST AND SUPPLY AIR IN ACCORDANCE WITH THE MINIMUM OUTDOOR AIRFLOW RATES PER SECTION M1505.4.3 AS MODIFIED BY WHOLE-HOUSE VENTILATION SYSTEM COEFFICIENTS IN SECTION M1505.4.3.1 WHERE APPLICABLE. THE WHOLE-HOUSE VENTILATION SYSTEM SHALL OPERATE CONTINUOUSLY AT THE MINIMUM AIRFLOW RATE DETERMINED PER SECTION M1505.4.2 UNLESS CONFIGURED WITH INTERMITTENT OFF CONTROLS PER SECTION M1505.4.3.2.

**WAC 51.155-1505 AMENDMENT M1505.4.1.1:** WHOLE-HOUSE SYSTEM COMPONENT REQUIREMENTS. WHOLE-HOUSE VENTILATION SUPPLY AND EXHAUST FANS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. WHOLE-HOUSE VENTILATION SYSTEM SHALL BE RATED FOR SOUND AT NO LESS THAN THE MINIMUM AIRFLOW RATE REQUIRED BY SECTION M1505.4.3.1. VENTILATION FANS SHALL BE RATED FOR SOUND AT A MAXIMUM OF 1.0 SONE. THIS SOUND RATING SHALL BE AT A MINIMUM OF 0.1 INCHES (2.54 CM) FROM THE EXHAUST FAN. THE CONTROLS SHALL BE SPECIFIED IN SECTIONS M1505.4.2 AND M1505.4.3.1.

**WAC 51.155-1505 M1505.4.1.2:** SUPPLY FANS. SUPPLY FANS USED IN MEETING THE REQUIREMENTS OF THIS SECTION SHALL SUPPLY OUTDOOR AIR FROM THE OUTSIDE. EXHAUST FANS SHALL HAVE A MINIMUM EFFICIENCY AS PRESCRIBED IN THE WA STATE ENERGY CODE. DESIGN AND INSTALLATION OF THE SYSTEM OR EQUIPMENT SHALL BE CARRIED OUT IN ACCORDANCE WITH MANUFACTURERS' INSTALLATION INSTRUCTIONS. WHOLE-HOUSE VENTILATION SYSTEM SHALL BE RATED FOR SOUND AT NO LESS THAN THE MINIMUM AIRFLOW RATE REQUIRED BY SECTION M1505.4.3.1. VENTILATION FANS SHALL BE RATED FOR SOUND AT A MAXIMUM OF 1.0 SONE. THIS SOUND RATING SHALL BE AT A MINIMUM OF 0.1 INCHES (2.54 CM) FROM THE EXHAUST FAN. THE CONTROLS SHALL BE SPECIFIED IN SECTIONS M1505.4.2 AND M1505.4.3.1.

**WAC 51.155-1505 M1505.4.1.3:** EXHAUST FANS. EXHAUST FANS REQUIRED SHALL BE DUCTED DIRECTLY TO THE OUTSIDE. EXHAUST AIR OUTLETS SHALL BE DESIGNED TO LIMIT THE PRESSURE DIFFERENCE TO THE OUTSIDE AND EQUIPPED WITH BACKDRAFT DAMPERS OR MOTORIZED DAMPERS IN ACCORDANCE WITH THE WA STATE ENERGY CODE. EXHAUST FANS SHALL BE TESTED AND RATED IN ACCORDANCE WITH THE AIRFLOW AND SOUND RATING PROCEDURES OF THE HOME VENTILATING INSTITUTE (HVH) 915. HVH LOUDNESS AND RATING PROCEDURE, AS APPLICABLE. EXHAUST FANS REQUIRED IN THIS SECTION MAY BE USED TO PROVIDE LOCAL VENTILATION, BATHROOM EXHAUST FANS THAT ARE DESIGNED TO EXHAUST AIR FROM BATHROOMS, AND EXHAUST FANS THAT ARE DESIGNED TO EXHAUST AIR FROM KITCHENS. EXHAUST FANS SHALL BE RATED FOR SOUND AT A MAXIMUM OF 1.0 SONE. THIS SOUND RATING SHALL BE AT A MINIMUM OF 0.1 INCHES (2.54 CM) FROM THE EXHAUST FAN. THE CONTROLS SHALL BE SPECIFIED IN SECTIONS M1505.4.2 AND M1505.4.3.1.

**WAC 51.155-1505 M1505.4.1.4:** SUPPLY FANS. SUPPLY FANS USED IN MEETING THE REQUIREMENTS OF THIS SECTION SHALL SUPPLY OUTDOOR AIR FROM THE OUTSIDE. EXHAUST FANS SHALL HAVE A MINIMUM EFFICIENCY AS PRESCRIBED IN THE WA STATE ENERGY CODE. DESIGN AND INSTALLATION OF THE SYSTEM OR EQUIPMENT SHALL BE CARRIED OUT IN ACCORDANCE WITH MANUFACTURERS' INSTALLATION INSTRUCTIONS. WHOLE-HOUSE VENTILATION SYSTEM SHALL BE RATED FOR SOUND AT NO LESS THAN THE MINIMUM AIRFLOW RATE REQUIRED BY SECTION M1505.4.3.1. VENTILATION FANS SHALL BE RATED FOR SOUND AT A MAXIMUM OF 1.0 SONE. THIS SOUND RATING SHALL BE AT A MINIMUM OF 0.1 INCHES (2.54 CM) FROM THE EXHAUST FAN. THE CONTROLS SHALL BE SPECIFIED IN SECTIONS M1505.4.2 AND M1505.4.3.1.

**WAC 51.155-1505 M1505.4.1.5:** BALANCED WHOLE-HOUSE VENTILATION SYSTEM. A BALANCED WHOLE-HOUSE VENTILATION SYSTEM SHALL INCLUDE BOTH SUPPLY AND EXHAUST FANS. THE SUPPLY AND EXHAUST FANS SHALL HAVE AIRFLOW THAT IS WITHIN 10 PERCENT OF EACH OTHER. THE TESTED AND BALANCED TOTAL MECHANICAL EXHAUST AIRFLOW RATE IS WITHIN 10 PERCENT OF 50% WHICHEVER IS GREATER OF THE TOTAL MECHANICAL SUPPLY AIRFLOW RATE, THE FLOW RATE TEST RESULTS AS SUBMITTED AND POSTED IN ACCORDANCE WITH SECTION M1505.4.1.7. THE EXHAUST FAN SHALL MEET THE REQUIREMENTS OF SECTION M1505.4.1.2. THE SUPPLY FAN SHALL MEET THE REQUIREMENTS OF SECTION M1505.4.1.3. BALANCED VENTILATION SYSTEMS WITH BOTH SUPPLY AND EXHAUST AIRFLOW RATES ABOVE THE RESIDENTIAL, DUELING OR SLEEPING UNIT MINIMUM VENTILATION RATE ARE EXEMPT FROM THE BALANCED AIRFLOW CALCULATION.

**WAC 51.155-1505 M1505.4.1.6:** FURNACE INTEGRATED SUPPLY. SYSTEMS USING SPACE HEATING AND/OR COOLING AIR HANDLER FANS FOR OUTDOOR AIR SUPPLY DISTRIBUTION ARE NOT PERMITTED. EXCEPTION: AIR HANDLER FANS SHALL HAVE A SPEED OR VARIABLE SPEED SUPPLY AIRFLOW CONTROL, CAPABILITY WITH A LOW SPEED OPERATION NOT GREATER THAN 25 PERCENT OF THE RATED SUPPLY AIRFLOW CAPACITY DURING VENTILATION ONLY OPERATION. OUTDOOR AIR INTAKE OPENINGS MUST BE THE PROPORTIONS OF SECTION R602.2 AND R603.4 AND MUST INCLUDE A MOTORIZED DAMPER THAT IS ACTIVATED BY THE WHOLE-HOUSE VENTILATION SYSTEM CONTROLLER. THE MOTORIZED DAMPER MUST BE CONTROLLED TO MAINTAIN THE OUTDOOR AIR INTAKE FLOW RATE OF THE WHOLE-HOUSE MECHANICAL EXHAUST AIRFLOW OR RATE. THE FLOW RATE FOR THE OUTDOOR AIR INTAKE MUST BE TESTED AND VERIFIED AT THE MINIMUM VENTILATION FAN SPEED AND THE MAXIMUM HEATING AND/OR COOLING FAN SPEED. THE RESULTS OF THE TEST SHALL BE SUBMITTED AND POSTED IN ACCORDANCE WITH SECTION M1505.4.1.7.

**WAC 51.155-1505 M1505.4.1.6:** TESTING. WHOLE-HOUSE MECHANICAL VENTILATION SYSTEMS SHALL BE TESTED, BALANCED AND VERIFIED TO PROVIDE A FLOW RATE NOT LESS THAN THE MINIMUM REQUIREMENTS PER SECTION M1505.4.3. TESTING SHALL BE PERFORMED ACCORDING TO THE VENTILATION EQUIPMENT MANUFACTURERS' INSTRUCTIONS, OR BY USING A FLOW HOOD, FLOW GRID, OR OTHER AIRFLOW MEASUREMENT DEVICE. THE MECHANICAL VENTILATION FANS INLET TERMINALS, OUTLET TERMINALS, OR GRILLES OR IN THE CONNECTED VENTILATION DUCTS, WHERE REQUIRED BY THE BUILDING OFFICIAL, TESTING SHALL BE CONDUCTED BY AN APPROVED THIRD PARTY. A WRITTEN REPORT OF THE RESULTS OF THE TEST SHALL BE SIGNED BY THE PARTY CONDUCTING THE TEST AND PROVIDED TO THE BUILDING OFFICIAL AND BE POSTED IN THE DWELLING UNIT PER SECTION M1505.4.1.7.

**WAC 51.155-1505 M1505.4.1.7:** CERTIFICATE. A PERMANENT CERTIFICATE SHALL BE COMPLETED BY THE MECHANICAL CONTRACTOR, TEST AND BALANCE CONTRACTOR OR OTHER APPROVED PARTY AND POSTED ON A WALL IN THE SPACE WHERE THE FURNACE IS LOCATED, A UTILITY ROOM, OR AN APPROVED LOCATION INSIDE THE BUILDING, WHEN LOCATED ON AN ELECTRICAL PANEL. THE CERTIFICATE SHALL NOT COVER OR OBSTRUCT THE VISIBILITY OF THE CIRCUIT DIRECTORY LABEL, SERVICE DISCONNECT LABEL, OR OTHER REQUIRED LABELS. THE CERTIFICATE SHALL LIST THE FLOW RATE DETERMINED FROM THE TESTED AND VERIFIED WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM AS INSTALLED AND THE TYPE OF MECHANICAL WHOLE-HOUSE VENTILATION SYSTEM USED TO COMPLY WITH SECTION M1505.4.1.3.

**WAC 51.155-1505 M1505.4.2:** SYSTEM CONTROLS. THE WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM SHALL BE PROVIDED WITH CONTROLS THAT COMPLY WITH THE FOLLOWING:  
1. THE WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM SHALL BE CONTROLLED WITH MANUAL SWITCHES, TRIMERS OR OTHER MEANS THAT PROVIDE FOR AUTOMATIC OPERATION OF THE VENTILATION SYSTEM THAT ARE PERMITTED BY THE OCCUPANT.  
2. WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM SHALL BE PROVIDED WITH CONTROLS THAT ENABLE MANUAL, OVERRIDE OF THE SYSTEM BY THE OCCUPANT DURING PERIODS OF POOR OUTDOOR AIR QUALITY. CONTROLS SHALL INCLUDE PERMANENT TEXT OR A SYMBOL INDICATING THEIR FUNCTION.  
3. RECOMMENDED CONTROLS PERMANENT LABELING SHALL INCLUDE THE FOLLOWING: "SAVE ON UNLESS OUTDOOR AIR QUALITY IS VERY POOR." MANUAL CONTROLS SHALL BE READILY ACCESSIBLE BY THE OCCUPANT.  
4. WHOLE-HOUSE VENTILATION SYSTEMS SHALL BE CONFIGURED TO OPERATE CONTINUOUSLY EXCEPT WHERE INTERMITTENT OFF CONTROLS AND SCHEDS ARE PROVIDED PER SECTION M1505.4.3.2.

**WAC 51.155-1505 M1505.4.3:** MECHANICAL VENTILATION RATE. THE WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM SHALL PROVIDE OUTDOOR AIR AT A CONTINUOUS RATE AS DETERMINED IN ACCORDANCE WITH TABLE M1505.4.3(1) OR EQUATION 15-1.  
EQUATION 15-1: VENTILATION RATE IN CUBIC FEET PER MINUTE = (0.1 \* TOTAL SQ. FT.) \* (7.5 \* (NUMBER OF BEDROOMS + 1) BUT NOT LESS THAN 30 CFM FOR EACH DWELLING UNIT)

### IRC TABLE 1505.4.3(1)

WHOLE-HOUSE MECHANICAL VENTILATION AIRFLOW RATE

DWELLING UNIT FLOOR AREA (Square feet)	0-1	2	3	4	5+
< 500	30	30	35	45	50
501 - 1,000	30	35	40	50	55
1,001 - 1,500	30	40	45	55	60
1,501 - 2,000	35	45	50	60	65
2,001 - 2,500	40	50	55	65	70
2,501 - 3,000	45	55	60	70	75
3,001 - 3,500	50	60	65	75	80
3,501 - 4,000	55	65	70	80	85
4,001 - 4,500	60	70	75	85	90
4,501 - 5,000	65	75	80	90	95

CFM = (TOTAL SQUARE FT.) \* (7.5 \* (5 + 1))  
CFM = 99.66 \* 45  
CFM = 147

M1505.4.3.1 VENTILATION QUALITY ADJUSTMENT. THE MIN. WHOLE-HOUSE VENTILATION RATE FROM SECTION 1505.4.3 SHALL BE ADJUSTED BY THE SYSTEM COEFFICIENT IN TABLE M1505.4.3(2) BASED ON THE SYSTEM TYPE NOT MEETING THE DEFINITION OF A BALANCED WHOLE-HOUSE VENTILATION SYSTEM AND/OR NOT MEETING THE DEFINITION OF DISTRIBUTED WHOLE-HOUSE VENTILATION SYSTEM.

### IRC TABLE 1505.4.3(2)

SYSTEM COMPONENT	COEFFICIENT	SYSTEM TYPE	DISTRIBUTED	NOT DIST.
BALANCED	1.0	1.25		
NOT BALANCED	1.25	1.5		

M1505.4.3.2 INTERMITTENT OFF OPERATION. WHOLE-HOUSE MECHANICAL VENTILATION SYSTEMS SHALL BE PROVIDED WITH ADVANCED CONTROLS THAT ARE CONFIGURED TO OPERATE THE SYSTEM WITH INTERMITTENT OFF OPERATION SHALL OPERATE FOR AT LEAST A TWO-HOUR IN EACH FOUR-HOUR SEGMENT. WHOLE-HOUSE VENTILATION AIRFLOW RATE DETERMINED IN ACCORDANCE WITH SECTION M1505.4.3 AS CORRECTED BY SECTION M1505.4.3.1 IS MULTIPLIED BY THE FACTOR DETERMINED IN ACCORDANCE WITH TABLE M1505.4.3(3).

### IRC TABLE 1505.4.3(3)

RUN TIME % EA 4hr SEGMENT	50%	66%	75%	100%
FACTOR	2	1.5	1.3	1.0

FINAL VENTILATION RATE  
(147 CFM x 1.25 Coefficient x 2 Factor)  
= 367.5

M1505.4 LOCAL EXHAUST RATES. LOCAL EXHAUST SYSTEMS SHALL BE DESIGNED TO HAVE THE CAPACITY TO EXHAUST THE MIN. AIRFLOW RATE DETERMINED IN ACCORDANCE WITH TABLE M1505.4.4(1). IF THE LOCAL EXHAUST FANS ARE INCLUDED IN THE WHOLE-HOUSE VENTILATION SYSTEM, IN ACCORDANCE WITH SECTION 1505.4.1 THEN THE EXHAUST FAN SHALL BE CONTROLLED TO OPERATE AS SPECIFIED IN SECTION M1505.4.2.

### IRC TABLE 1505.4.4(1)

AREAS TO BE EXHAUSTED	INTERMITTENT	CONTINUOUS
KITCHEN	100 cfm	30 cfm
BATHROOMS - TOILET ROOMS	50 cfm	20 cfm

M1505.4.4 LOCAL EXHAUST FANS. EXHAUST FANS SHALL MEET THE FOLLOWING CRITERIA:  
1. EXHAUST FANS SHALL BE TESTED AND RATED IN ACCORDANCE WITH THE AIRFLOW AND SOUND RATING PROCEDURES OF THE HOME VENTILATING INSTITUTE (HVH) 915. HVH LOUDNESS AND RATING PROCEDURE, HVH AIRFLOW TEST PROCEDURE, AND HVH 910. HVH PRODUCT PERFORMANCE CERTIFICATION PROCEDURE.  
EXCEPTION: WHERE A RANGE HOOD OR DOWN DRAFT EXHAUST FAN IS USED FOR LOCAL EXHAUST FOR A KITCHEN, THE DEVICE IS NOT REQUIRED TO BE RATED PER THESE STANDARDS.  
2. FAN AIRFLOW RATING AND DUCT SYSTEM SHALL BE DESIGNED AND INSTALLED TO DELIVER AT LEAST THE EXHAUST AIRFLOW RATING BY TABLE M1505.4.4(1). THE AIRFLOW RATING REFERRED TO THE DELIVERED AIRFLOW OF THE SYSTEM AS INSTALLED AND TESTED USING A FLOW HOOD, FLOW GRID, OR OTHER AIRFLOW MEASUREMENT DEVICE. LOCAL EXHAUST SYSTEMS SHALL BE TESTED, BALANCED AND VERIFIED TO PROVIDE A FLOW RATE NOT LESS THAN THE MINIMUM REQUIREMENTS BY THIS SECTION.  
3. DESIGN AND INSTALLATION OF THE SYSTEM OR EQUIPMENT SHALL BE CARRIED OUT IN ACCORDANCE WITH MANUFACTURERS' INSTALLATION INSTRUCTIONS.  
4. FAN AIRFLOW RATING AND DUCT SYSTEM SHALL BE DESIGNED AND INSTALLED TO DELIVER AT LEAST THE EXHAUST AIRFLOW RATING REQUIRED BY TABLE M1505.4.4(1). THE CERTIFICATE SHALL LIST THE VALUE COVERING THE LARGEST AREA. THE CERTIFICATE SHALL LIST THE TYPE OF EFFICIENCY OF HEATING, COOLING WHOLE-HOUSE MECHANICAL VENTILATION, AND SERVICE WATER HEATING APPLIANCES. WHERE A GAS-BURNED UNVENTILATED ROOM HEATER, "ELECTRIC FURNACE" OR BASEBOARD ELECTRIC HEATER, AS APPROPRIATE, AN EFFICIENCY SHALL NOT BE LISTED FOR GAS-BURNED UNVENTILATED ROOM HEATERS, ELECTRIC FURNACES OR ELECTRIC BASEBOARD HEATERS.  
THE CODE OFFICIAL MAY REQUIRE THAT DOCUMENTATION FOR ANY REQUIRED TEST RESULTS INCLUDE AN ELECTRONIC RECORD OF THE TIME, DATE, AND LOCATION OF THE TEST. A DATE-STAMPED SMART PHONE PHOTO OR AIR LEAKAGE TESTING SOFTWARE MAY BE USED TO SATISFY THIS REQUIREMENT.

### IRC TABLE 1505.4.4(2)

FAN TESTED (CH) @ 25 (99.66) CFM	MIN. FLEX (INCH)	MAX. LENGTH (FT)	MIN. SMOOTH DIA. (INCH)	MAX. LENGTH (MAX. ELBOWS DIA.) (FT)	ELBOWS
25	4	70	4	70	3
50	5	90	5	100	3
75	6	NO LIMIT	6	NO LIMIT	3
100	7	NO LIMIT	7	NO LIMIT	3
125	8	NO LIMIT	8	NO LIMIT	3
150	9	NO LIMIT	9	NO LIMIT	3
175	10	NO LIMIT	10	NO LIMIT	3
200	11	NO LIMIT	11	NO LIMIT	3
225	12	NO LIMIT	12	NO LIMIT	3
250	13	NO LIMIT	13	NO LIMIT	3
275	14	NO LIMIT	14	NO LIMIT	3
300	15	NO LIMIT	15	NO LIMIT	3
325	16	NO LIMIT	16	NO LIMIT	3
350	17	NO LIMIT	17	NO LIMIT	3
375	18	NO LIMIT	18	NO LIMIT	3
400	19	NO LIMIT	19	NO LIMIT	3
425	20	NO LIMIT	20	NO LIMIT	3
450	21	NO LIMIT	21	NO LIMIT	3
475	22	NO LIMIT	22	NO LIMIT	3
500	23	NO LIMIT	23	NO LIMIT	3
525	24	NO LIMIT	24	NO LIMIT	3
550	25	NO LIMIT	25	NO LIMIT	3
575	26	NO LIMIT	26	NO LIMIT	3
600	27	NO LIMIT	27	NO LIMIT	3
625	28	NO LIMIT	28	NO LIMIT	3
650	29	NO LIMIT	29	NO LIMIT	3
675	30	NO LIMIT	30	NO LIMIT	3
700	31	NO LIMIT	31	NO LIMIT	3
725	32	NO LIMIT	32	NO LIMIT	3
750	33	NO LIMIT	33	NO LIMIT	3
775	34	NO LIMIT	34	NO LIMIT	3
800	35	NO LIMIT	35	NO LIMIT	3
825	36	NO LIMIT	36	NO LIMIT	3
850	37	NO LIMIT	37	NO LIMIT	3
875	38	NO LIMIT	38	NO LIMIT	3
900	39	NO LIMIT	39	NO LIMIT	3
925	40	NO LIMIT	40	NO LIMIT	3
950	41	NO LIMIT	41	NO LIMIT	3
975	42	NO LIMIT	42	NO LIMIT	3
1000	43	NO LIMIT	43	NO LIMIT	3
1025	44	NO LIMIT	44	NO LIMIT	3
1050	45	NO LIMIT	45	NO LIMIT	3
1075	46	NO LIMIT	46	NO LIMIT	3
1100	47	NO LIMIT	47	NO LIMIT	3
1125	48	NO LIMIT	48	NO LIMIT	3
1150	49	NO LIMIT	49	NO LIMIT	3
1175	50	NO LIMIT	50	NO LIMIT	3
1200	51	NO LIMIT	51	NO LIMIT	3
1225	52	NO LIMIT	52	NO LIMIT	3
1250	53	NO LIMIT	53	NO LIMIT	3
1275	54	NO LIMIT	54	NO LIMIT	3
1300	55	NO LIMIT	55	NO LIMIT	3
1325	56	NO LIMIT	56	NO LIMIT	3
1350	57	NO LIMIT	57	NO LIMIT	3
1375	58	NO LIMIT	58	NO LIMIT	3
1400	59	NO LIMIT	59	NO LIMIT	3
1425	60	NO LIMIT	60	NO LIMIT	3
1450	61	NO LIMIT	61	NO LIMIT	3
1475	62	NO LIMIT	62	NO LIMIT	3
1500	63	NO LIMIT	63	NO LIMIT	3
1525	64	NO LIMIT	64	NO LIMIT	3
1550	65	NO LIMIT	65	NO LIMIT	3
1575	66	NO LIMIT	66	NO LIMIT	3
1600	67	NO LIMIT	67	NO LIMIT	3
1625	68	NO LIMIT	68	NO LIMIT	3
1650	69	NO LIMIT	69	NO LIMIT	3
1675	70	NO LIMIT	70	NO LIMIT	3
1700	71	NO LIMIT	71	NO LIMIT	3
1725	72	NO LIMIT	72	NO LIMIT	3
1750	73	NO LIMIT	73	NO LIMIT	3
1775	74	NO LIMIT	74	NO LIMIT	3
1800	75	NO LIMIT	75	NO LIMIT	3
1825	76	NO LIMIT	76	NO LIMIT	3
1850	77	NO LIMIT	77	NO LIMIT	3
1875	78	NO LIMIT	78	NO LIMIT	3
1900	79	NO LIMIT	79	NO LIMIT	3
1925	80	NO LIMIT	80	NO LIMIT	3
1950	81	NO LIMIT	81	NO LIMIT	3
1975	82	NO LIMIT	82	NO LIMIT	3
2000	83	NO LIMIT	83	NO LIMIT	3
2025	84	NO LIMIT	84	NO LIMIT	3
2050	85	NO LIMIT	85	NO LIMIT	3
2075	86	NO LIMIT	86	NO LIMIT	3
2100	87	NO LIMIT	87	NO LIMIT	3
2125	88	NO LIMIT	88	NO LIMIT	3
2150	89	NO LIMIT	89	NO LIMIT	3
2175	90	NO LIMIT	90	NO LIMIT	3
2200	91	NO LIMIT	91	NO LIMIT	3
2225	92	NO LIMIT	92	NO LIMIT	3
2250	93	NO LIMIT	93	NO LIMIT	3
2275	94	NO LIMIT	94	NO LIMIT	3
2300	95	NO LIMIT	95	NO LIMIT	3
2325	96				

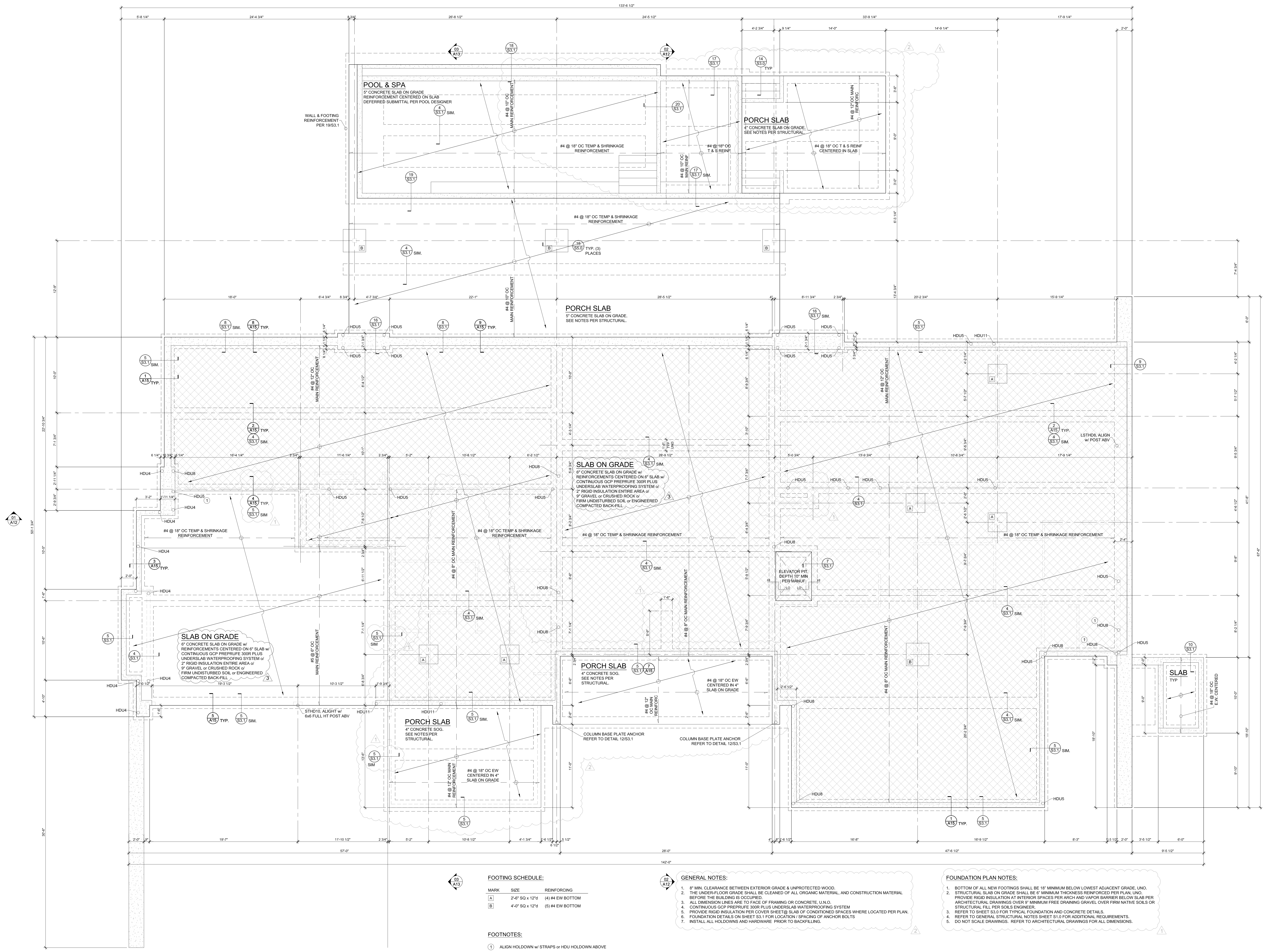












**STRUCTURAL SOG REINFORCING PLAN**  
SCALE: 1/4" = 1'-0"

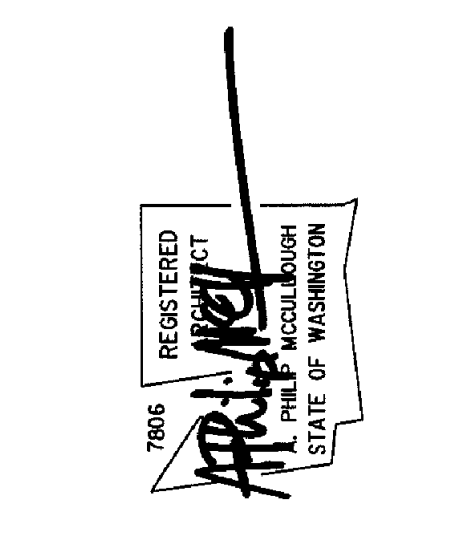
**FOOTING SCHEDULE:**

MARK	SIZE	REINFORCING
[A]	2'-6" SQ x 12"	(4) #4 EW BOTTOM
[B]	4'-0" SQ x 12"	(5) #4 EW BOTTOM

**FOOTNOTES:**  
① ALIGN HOLD-DOWN w/ STRAPS or HDU HOLD-DOWN ABOVE

- GENERAL NOTES:**
- 8" MIN. CLEARANCE BETWEEN EXTERIOR GRADE & UNPROTECTED WOOD.
  - THE UNDER-FLOOR GRADE SHALL BE CLEARED OF ALL ORGANIC MATERIAL AND CONSTRUCTION MATERIAL BEFORE THE BUILDING IS OCCUPIED.
  - ALL DIMENSION LINES ARE TO FACE OF FRAMING OR CONCRETE UNLESS NOTED OTHERWISE.
  - CONTINUOUS CGP PREPREFUR 300R PLUS UNDERSLAB WATERPROOFING SYSTEM.
  - PROVIDE RIGID INSULATION PER COVER SHEET @ SLAB OF CONDITIONED SPACES WHERE LOCATED PER PLAN.
  - FOUNDATION DETAILS ON SHEET S3.1 FOR LOCATION SPACING OF ANCHOR BOLTS.
  - INSTALL ALL HOLD-DOWNS AND HARDWARE PRIOR TO BACKFILLING.

- FOUNDATION PLAN NOTES:**
- BOTTOM OF ALL NEW FOOTINGS SHALL BE 18" MINIMUM BELOW LOWEST ADJACENT GRADE UNO.
  - STRUCTURAL SLAB ON GRADE SHALL BE 8" MINIMUM THICKNESS REINFORCED PER PLAN UNO. PROVIDE RIGID INSULATION AT INTERIOR SPACES PER ARCH AND VAPOR BARRIER BELOW SLAB PER ARCHITECTURAL DRAWINGS OVER IF MINIMUM FREE DRAINING GRAVEL OVER FIRM NATIVE SOILS OR STRUCTURAL FILL PER SOILS ENGINEER.
  - REFER TO SHEET S3.0 FOR TYPICAL FOUNDATION AND CONCRETE DETAILS.
  - REFER TO GENERAL STRUCTURAL NOTES SHEET S1.0 FOR ADDITIONAL REQUIREMENTS.
  - DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.



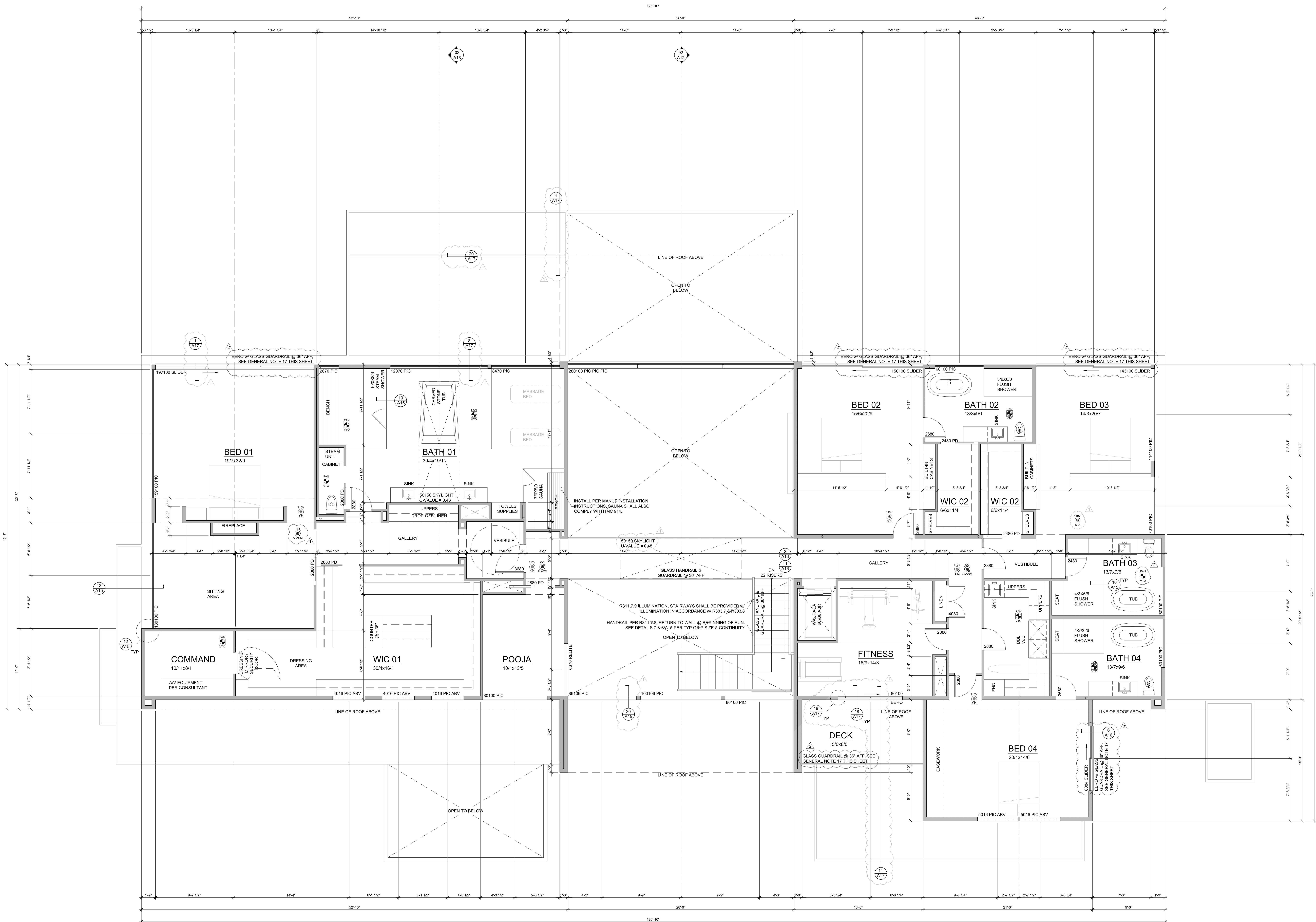










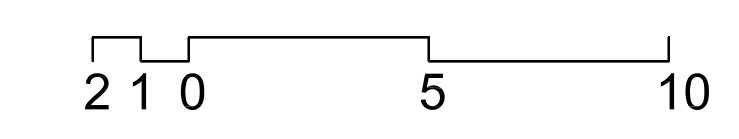


**UPPER FLOOR PLAN**

SCALE: 1/4" = 1'-0"  
4,497 SF

- GENERAL NOTES:**
- SEE ELEVATIONS, SECTIONS AND ROOF PLAN FOR PLATE HEIGHTS.
  - DIMENSION LINES ARE TO FACE OF STUD UNLESS NOTED OTHERWISE.
  - WINDOW SIZES & ROUGH OPENINGS TO BE VERIFIED BY CONTRACTOR.
  - IF NOMINAL DOOR AND WINDOW HEIGHTS ARE SIMILAR, COORDINATE WITH DOOR AND WINDOW SPECS TO LOCATE FINAL ELEVATION OF THE HEAD HEIGHTS SO THAT ALL DOOR AND WINDOW TRIM ALIGN.
  - WINDOW AND DOOR SIZES ARE DIMENSIONED IN FEET AND INCHES (E.G. 2828" 2'-8 1/2" x 2'-8 1/2").
  - EXTERIOR WALLS TO BE 2x8 STUDS AT 16" O.C., INTERIOR WALLS TO BE 2x4 STUDS AT 16" O.C., U.N.O.
  - FIREBLOCK ALL PLUMBING PENETRATIONS AND STAIR RUNS PER IRC SEC. R302.11.
  - SAFETY GLAZING PER IRC SEC. R308.4.
  - ALL WOOD IN CONTACT WITH CONCRETE TO BE PRESSURE TREATED PER IRC SEC. R317.1.
  - PROVIDE UNDER-STAIR PROTECTION (1/2" GWB) PER IRC SEC. R302.7.
  - PROVIDE (1) LAYER OR 1/2" GWB AT THE GARAGE SIDE OF ALL WALLS SEPARATING THE GARAGE FROM THE RESIDENCE. ALL WALLS SUPPORTING A FLOOR CEILING ASSEMBLY BETWEEN THE GARAGE AND RESIDENCE, AND BETWEEN THE GARAGE AND ITS ATTIC, PROVIDE (1) LAYER 5/8" TYPE X GWB TO GARAGE CEILING IF BELOW HABITABLE ROOMS.
  - PER IRC SEC. R311.7.5, MAX. RISER HEIGHT SHALL BE 7-3/4" MIN. TREAD DEPTH SHALL BE 10". STAIR NOSINGS: 3/4" MIN., 1-1/4" MAX. RADIIUS @ LEADING EDGE OF TREAD: 1/2" MAX.
  - PROVIDE HANDRAILS PER IRC SEC. R311.7.8, TOP OF HANDRAIL SHALL BE NOT LESS THAN 34" OR MORE THAN 38" ABOVE THE TREAD NOSINGS. HANDRAILS SHALL BE CONTINUOUS THE FULL LENGTH OF THE FLIGHT PER R311.7.8.2. THE HANDRAIL GRIP-SIZE SHALL BE PROVIDED PER R311.7.8.3.
  - PROVIDE GUARDS (MIN. 36" HEIGHT) IN LOCATIONS PER IRC SEC. R312.
  - FACTORY BUILT FIREPLACES & CHIMNEYS SHALL BE LISTED & LABELED AND SHALL BE INSTALLED & TERMINATED IN ACCORDANCE TO THE CONDITIONS OF THE LISTINGS. FACTORY BUILT FIREPLACES SHALL MEET EMISSION STANDARDS PER CH. 51-01 WAC R108.1.1.
  - ALL SHOWERHEAD AND KITCHEN SINK FAUCETS INSTALLED IN THE HOUSE SHALL BE RATED AT 1.75 GPM OR LESS. ALL OTHER LAVATORY FAUCETS SHALL BE RATED AT 1.0 GPM OR LESS.
  - PER IRC R305.4.4, EXCEPTION, GLASS BALUSTER PANELS SHALL BE LAMINATED GLASS w/ TWO OR MORE PLYES OF EQUAL THICKNESS AND OF SAME GLASS TYPE. NO ATTACHED TOP RAIL OR HANDRAIL REQUIRED.

- PLAN KEY:**
- INDICATES 110V SMOKE DET. PER I.R.C. 313.4 INTERCONNECTED w/ EMERGENCY BATTERY BACKUP
  - INDICATES CARBON MONOXIDE ALARM PER I.R.C. R315.1
  - INDICATES EXHAUST VENTILATION FAN PER COVER SHEET.

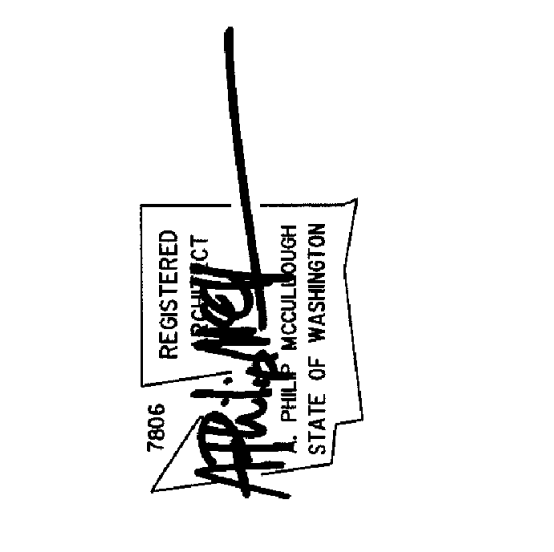


**Comment**  
Updated Plans to Structural Backcheck 01  
Structural Backcheck 02  
Structural Backcheck 03  
Permit Corrections  
Structural Backcheck  
Commentary Response  
Cycle 2 Structural Backcheck  
Cycle 3 Structural Backcheck

**Revisions**

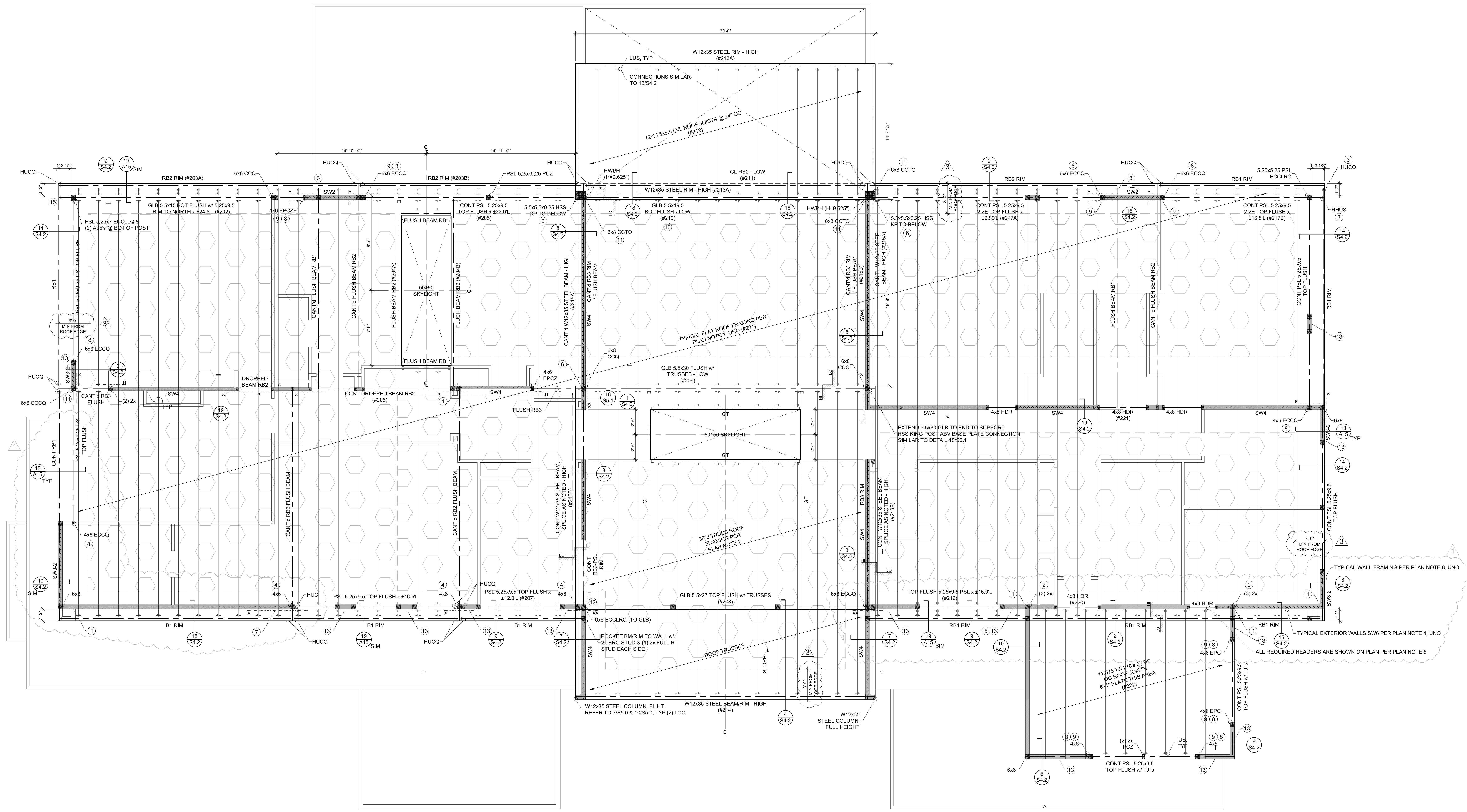
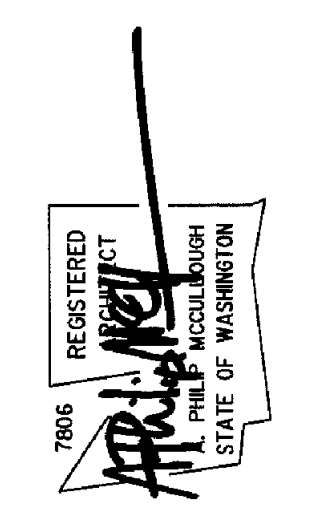
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2021.11.17	2021.12.13	2021.12.22	2022.05.02	2022.05.04	2022.05.12	2022.07.13	2022.08.18

Date: 2021.10.13  
Job No: 21-041  
Project No:  
Drawn: DJR  
Approved: APM



**KONERU RESIDENCE**  
6610 E Mercer Way  
Mercer Island, WA 98040





**GENERAL NOTES:**

- EAVE OVERHANG PER PLAN. APPLY ROOFING IN ACCORDANCE WITH I.R.C. SEC. 905. PROVIDE DRIP EDGE PER R902.2.8.5.
- HEADERS (HOR) TO BE PER STRUCTURAL. FILL CAVITIES WITH RIGID INSULATION WHERE POSSIBLE.
- COLUMNS @ HEADERS, BEAMS, & GIRDERS TO BE (2) 2x STUDS (UN.O.)

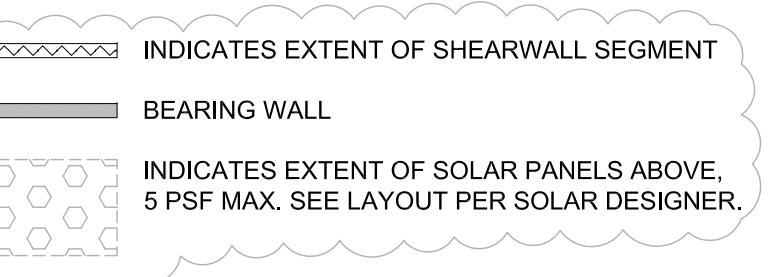
**FLUSH BEAM SCHEDULE:**

MARK	SIZE (1)	BRG STUDS	HANGER, UNO
RB1	1.75x11.875 LSL	2	HUS1.81F10
RB2	3.5x11.875 GLB or 3.5x11.875 LSL	2	HRUS410 HRUS410
RB3	5.5x11.875 GLB or 5.25x11.875 PSL	3	HGUS5.5010 HGUS5.5010
RB4	7x11.875 PSL	4	HGUS7.2510

(1) ALL GLB ARE 24F-1/4, UNO

**LEGEND:**

- X ———— HORIZ CS16 x 2'-0" LONG - TOP PLATE TO TOP PLATE (Ø BREAK) or TOP FLUSHED BEAM TO TOP PLATE or RIM TO RIM or BEAM TO BEAM (XX INDICATES 2-CS16 STRAPS)
- DS ———— DRAG STRUT - NAIL THRU SHEATHING w/ 8d NAILS @ 4" OC INTO ENTIRE LENGTH OF MEMBER
- (X) ———— NUMBER OF BUILT-UP STUDS
- GT ———— GIRDER TRUSS
- RT ———— RIM TRUSS
- KP ———— KING POST



**FOOTNOTES:**

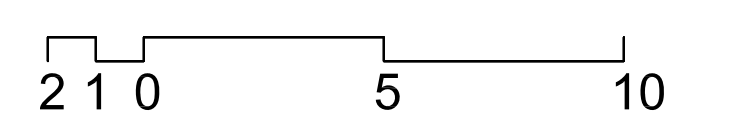
- SHEARWALL SHEATHING CONTINUOUS THRU WALL INTERSECTION
- PROVIDE (2)A35 TOP AND BOTTOM OF POST/BUILT-UP STUDS
- HANGER PER PLAN INSTALL UPSIDE DOWN
- PROVIDE VERT. HTS20 STRAP EACH BEAM END TO POST BELOW (AT EACH END OF EACH BEAM WERE HANGER NOT OCCURS)
- PROVIDE (5)LTP'S ORIENT UPRIGHT AND CENTERED ON 2x SHIM BETWEEN BEAM AND DOUBLE TOP PLATES FOR DRAG CONNECTION
- PROVIDE HSS 3-1/2x3-1/2x1/4 MIN. KING POST (KP) AT HIGH STEEL BEAM AND SET COLUMN BASE PLATE AND CONNECTION TO TOP OF ROOF BEAM BELOW, REFER 18S5.1
- PROVIDE SNUG FIT LSL 1-3/4" BLOCKING BETWEEN (3) RAFTER BAYS WITH A35 TO TOP PLATE AND PROVIDE HORIZ CS16 x 6-0" OVER ROOF SHEATHING - LAP RIM BEAM 1'-0" AND NAIL REMAINING LENGTH TO LSL 1-3/4" BLOCKS
- RAISE TOP OF POST TO BOTTOM OF 9-1/2" DEPTH TOP FLUSH BEAM AND PROVIDE POST CAP PER PLAN, REFER DETAIL 18S4.0
- PROVIDE HORIZ CS16 x 4'-0" STRAP AT TOP PLATE AND WRAP AROUND CENTERED ON POST PER PLAN
- RAISED BOTTOM OF BEAM (+1/4") 2'-1/4" FROM BOTTOM OF T.J RAFTERS
- PROVIDE SOLID WOOD SHIM BETWEEN BOTTOM OF 9-1/2" DEPTH BEAM AND POST CAP AS REQUIRED TOP FLUSHED WITH TOP OF T.J RAFTERS
- NOTCH BOTTOM OF RB3-PSL BEAM TO FIT INTO RAISED POST CAP - NO OVERCUTS
- PROVIDE SOLID WOOD SHIM BETWEEN BOTTOM OF 9-1/2" DEPTH BEAM AND DBL 2x6 TOP PLATES TO BE FLUSHED WITH TOP OF ROOF FRAMING AND PROVIDE 0.22" DIAM. x 8" SDWS TIMBER SCREWS AT 16" MAX. THRU UNDERSIDE OF DBL TOP PLATES CENTERED INTO BOTTOM OF BEAM.
- PROVIDE SOLID WOOD SHIM BETWEEN BOTTOM OF 9-1/2" DEPTH BEAM AND DBL 2x6 TOP PLATES TO BE FLUSHED WITH TOP OF ROOF FRAMING AND PROVIDE 0.22" DIAM. x 8" SDWS TIMBER SCREWS AT 16" MAX. THRU UNDERSIDE OF DBL TOP PLATES CENTERED INTO BOTTOM OF BEAM
- PROVIDE L570 EACH FACE. (2) TOTAL WITH #9 x 1'-1/2" SD CONNECTOR SCREWS IN LIEU OF NAILS

**ROOF FRAMING NOTES:**

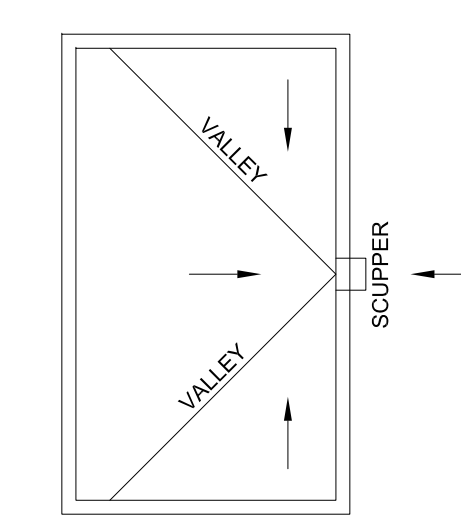
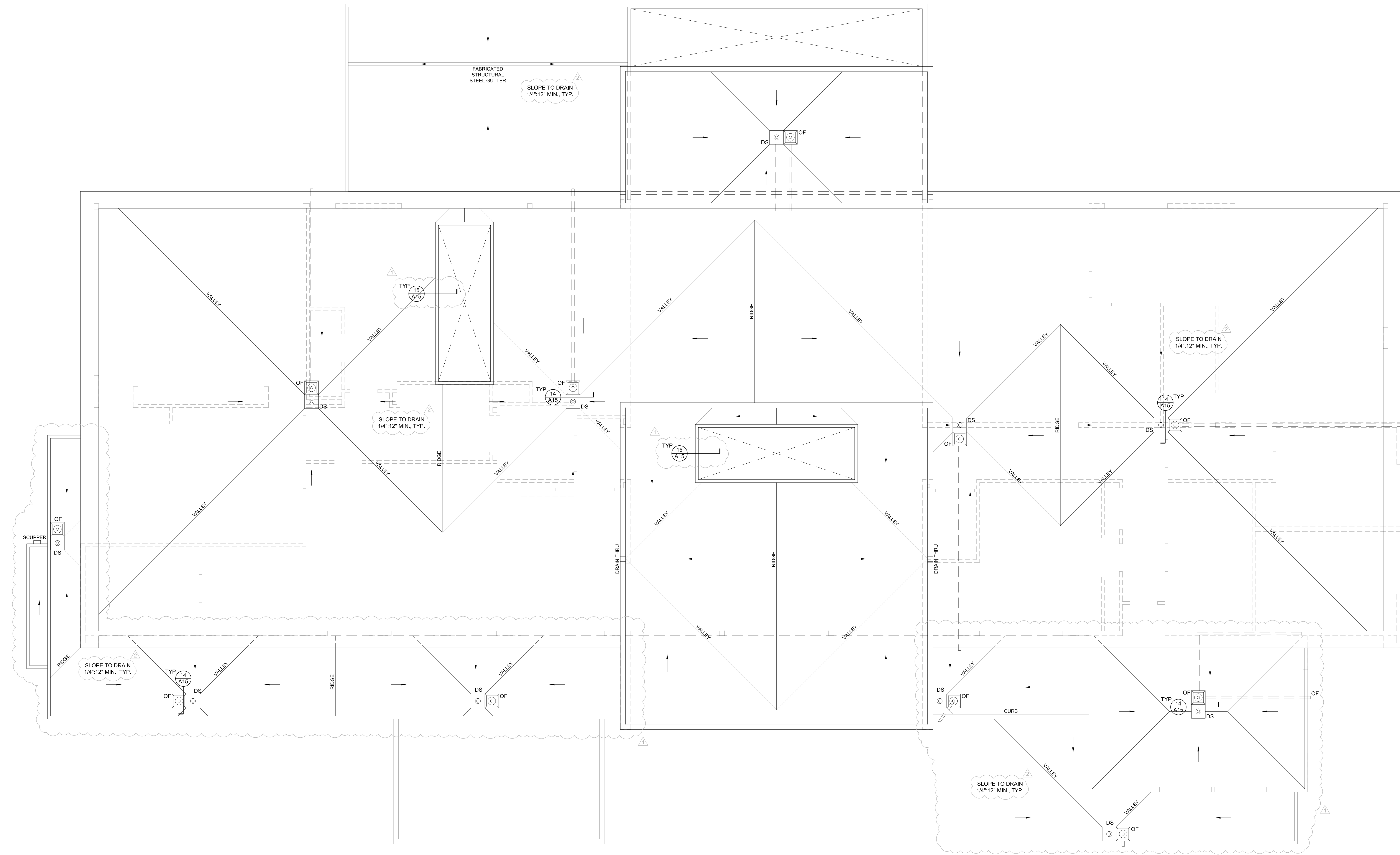
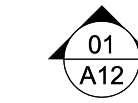
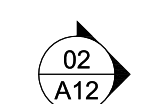
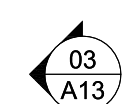
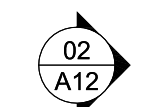
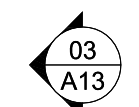
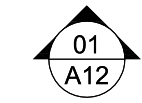
- TYPICAL ROOF FRAMING CONSISTS OF SOLAR PANELS (5 PSF MAX.) OVER TAPERED RIGID INSULATION PER ARCH OVER 3/4" TAG APA RATED SHEATHING (SPAN RATING 4820) OVER 1-1/2" T.J 3809 AT 24" OC. UNO. PROVIDE H8 EACH END OF ALL RAFTERS. H8 EACH SIDE OF ALL MULTIPLE RAFTERS. UNO.
- TRUSS ROOF FRAMING PER PLAN CONSISTS OF SOLAR PANELS (5 PSF MAX.) OVER TAPERED RIGID INSULATION PER ARCH OVER 3/4" TAG APA RATED SHEATHING (SPAN RATING 4820) OVER PREFABRICATED TRUSSES AT 24" OC. UNO. TRUSSES TO BE A MIN DEPTH OF 24". PROVIDE H2.5A EACH END OF ALL TRUSSES. H2.5A EACH SIDE OF ALL MULTIPLE TRUSSES. UNO. REFER TO ARCHITECTURAL DRAWINGS FOR TRUSS PROFILE.
- NAIL ROOF SHEATHING W/ 8d AT 6" OC AT FRAMED PANEL EDGES AND OVER SHEARWALLS, AND AT 12" OC IN THE FIELD. UNO.
- "SW" INDICATES SHEARWALL BELOW FRAMING SHOWN. REFER TO SHEARWALL SCHEDULE ON S18.0 FOR ADDITIONAL INFORMATION. ALL EXTERIOR WALLS ARE SW. UNO.
- ALL HEADERS REQUIRED ARE SHOWN ON PLAN AND SHALL BE (2)2x8, UNO. REFER TO DETAIL 10S4.0 FOR ADDITIONAL REQUIREMENTS.
- PROVIDE (2) BEARING (TRIMMER) STUDS AT EACH END OF ALL HEADERS AND BEAMS 6'-0" IN LENGTH AND OVER UNO.
- WHERE POSTS OCCUR PROVIDE SOLID VERTICAL GRAN BLOCKING SOLID THRU FLOOR TO MATCHING SUPPORTS BELOW.
- TYPICAL WALL FRAMING CONSISTS OF 2x6s AT 16" OC AT EXTERIOR WALLS AND 2x4s OR 2x6s AT 16" OC AT INTERIOR WALLS PER ARCH DRAWINGS. UNO.
- REFER TO SHEET S4.0 FOR TYPICAL WOOD FRAMING DETAILS.
- REFER TO GENERAL STRUCTURAL NOTES SHEET S1.0 FOR ADDITIONAL REQUIREMENTS.
- DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.

**UPPER ROOF FRAMING PLAN**

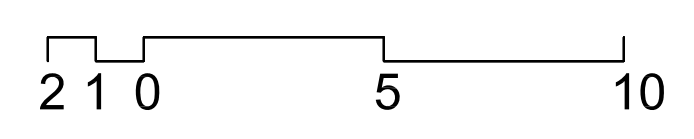
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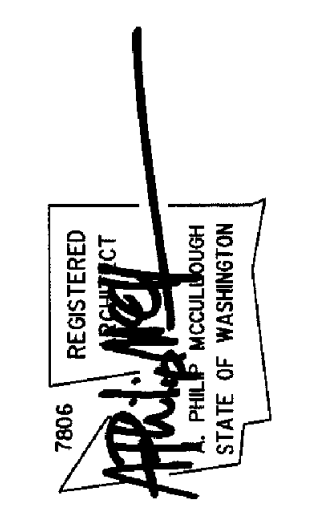


**ROOF DRAINAGE PLAN**  
SCALE: 1/4" = 1'-0"



Revisions	Comment
2021.11.17	Updated Plans to Structural
2021.12.13	Structural Backcheck 01
2021.12.22	Structural Backcheck 02
2022.05.02	Structural Backcheck 03
2022.05.02	Permit Corrections
2022.05.04	Structural Backcheck
2022.05.12	Commentary Response
<b>2022.07.13</b>	<b>Cycle 2 Structural Backcheck</b>
<b>2022.08.18</b>	<b>Cycle 3 Structural Backcheck</b>

Date:	2021.10.13
Job No:	21-041
Project No:	DJR
Drawn:	APM
Approved:	

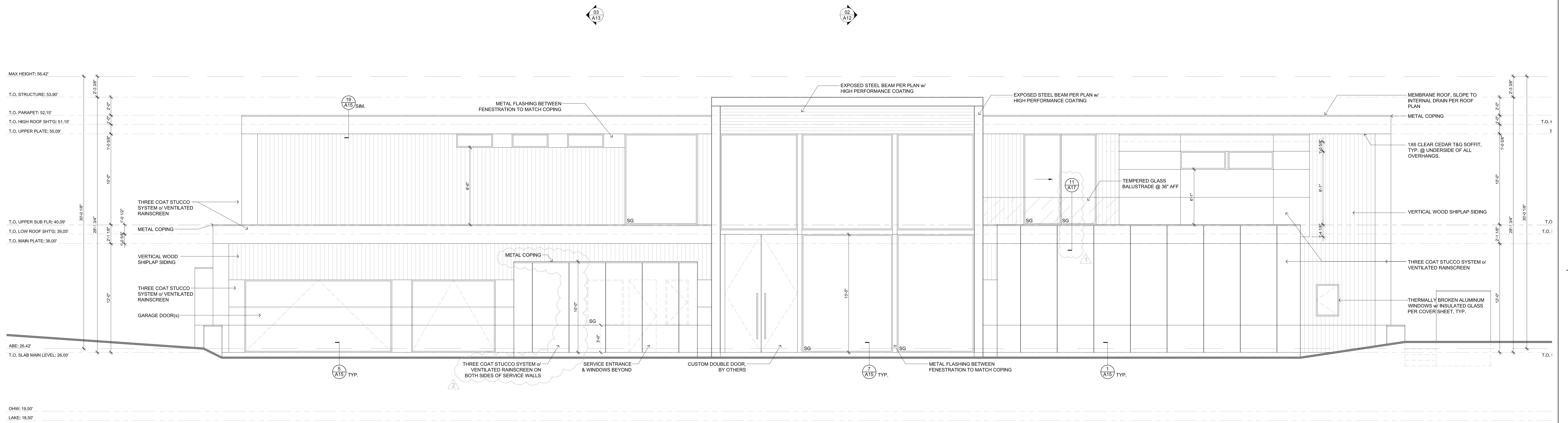


**KONERU RESIDENCE**  
6610 E Mercer Way  
Mercer Island, WA 98040

PERMIT SET  
Roof Drainage Plan

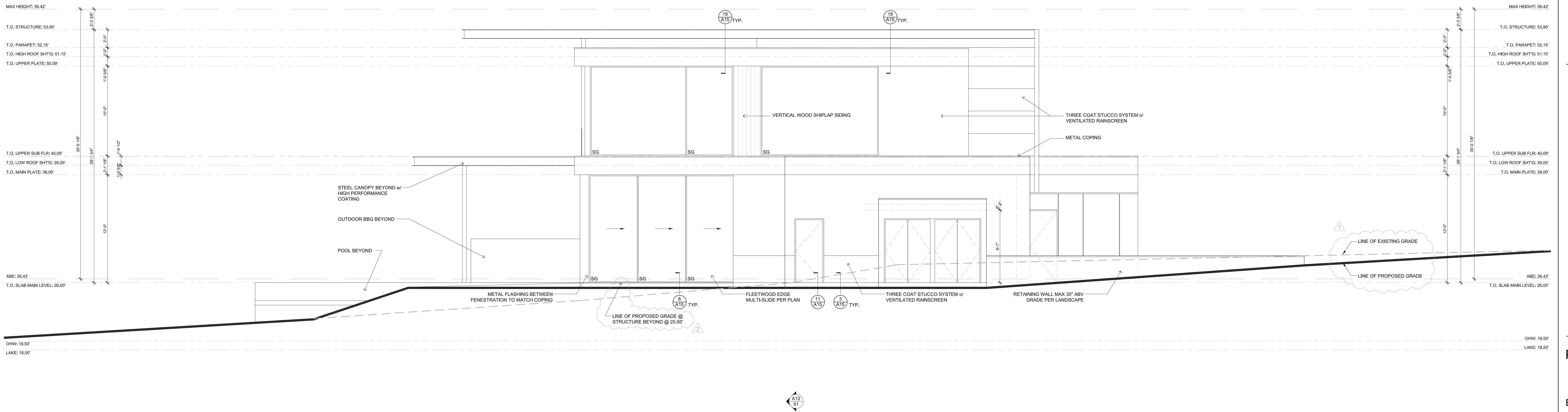
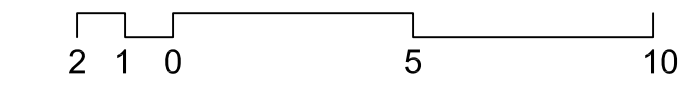






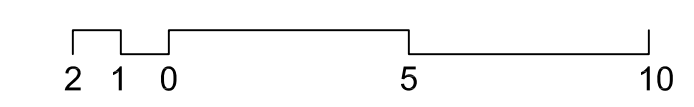
**WEST ELEVATION**

SCALE: 1/4" = 1'-0"



**NORTH ELEVATION**

SCALE: 1/4" = 1'-0"



5601 6th Ave S, Suite 371  
Seattle, WA 98108  
206.443.1181  
mccullougharchitects.com

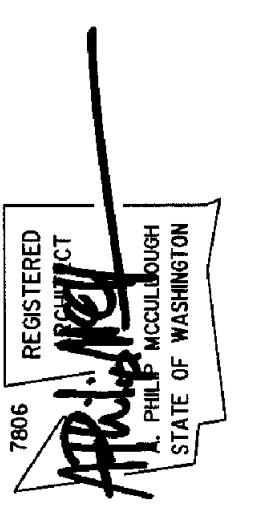
**MCCULLOUGH**  
ARCHITECTS

UNPUBLISHED WORK 2016 © McCullough Architects

**Comment**  
Updated Plans to Structural Backcheck 01  
Structural Backcheck 02  
Structural Backcheck 03  
Permit Corrections  
Structural Backcheck  
Commentary Response  
**Cycle 2 Structural Backcheck**  
**Cycle 3 Structural Backcheck**

**Revisions**  
2021.11.17  
2021.12.13  
2021.12.13  
2021.12.22  
2022.05.02  
2022.05.04  
2022.05.12  
2022.07.13  
2022.08.18

**Date:** 2021.10.13  
**Job No:** 21-041  
**Project No:** DUR  
**Drawn:** APM  
**Approved:**



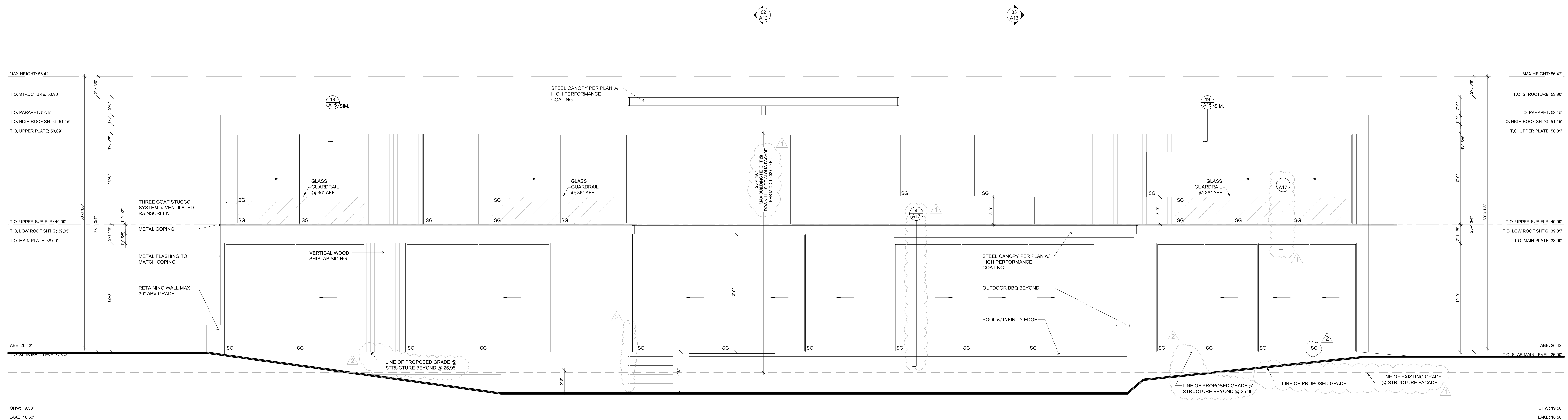
**KONERU RESIDENCE**  
6610 E Mercer Way  
Mercer Island, WA 98040

PERMIT SET

Exterior Elevations

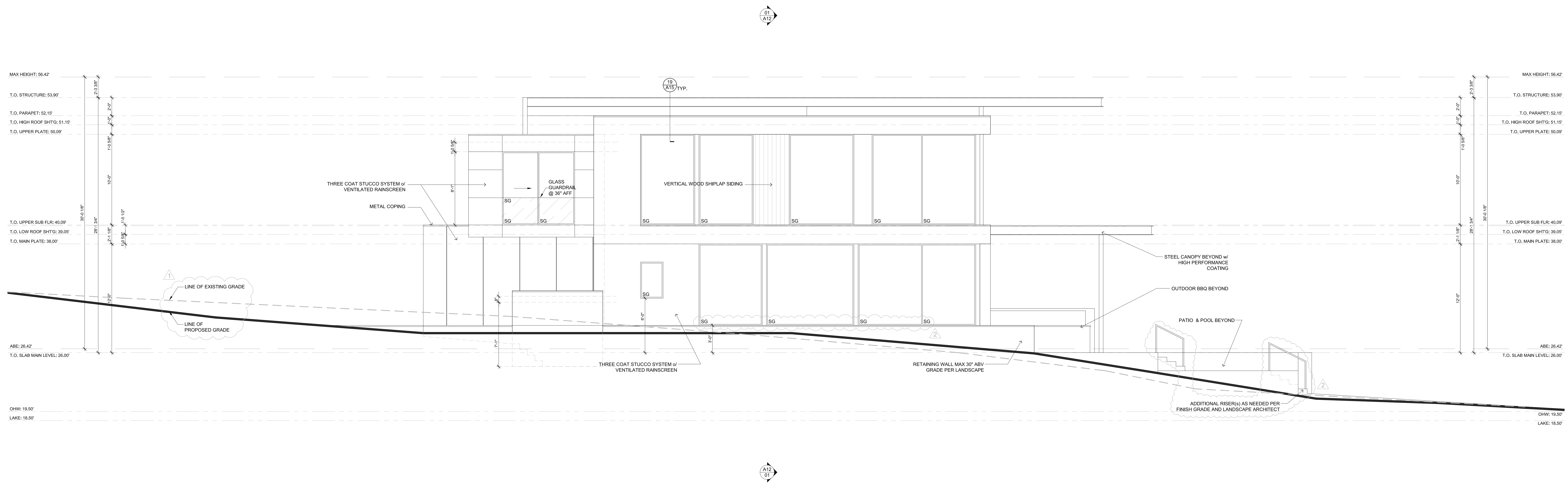
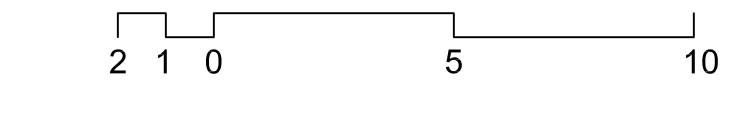
**A10**





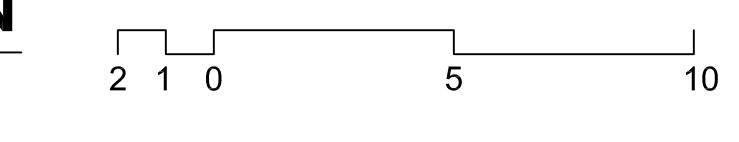
**EAST ELEVATION**

SCALE: 1/4" = 1'-0"



**SOUTH ELEVATION**

SCALE: 1/4" = 1'-0"



Revisions	Comment
2021.11.17	Updated Plans to Structural
2021.12.13	Structural Backcheck 01
2021.12.13	Structural Backcheck 02
2021.12.22	Structural Backcheck 03
2022.05.02	Permit Corrections
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2022.07.13	Cycle 2 Structural Backcheck
2022.08.18	Cycle 3 Structural Backcheck

Date: 2021.10.13  
Job No: 21-041  
Project No:  
Drawn: DJR  
Approved: APM

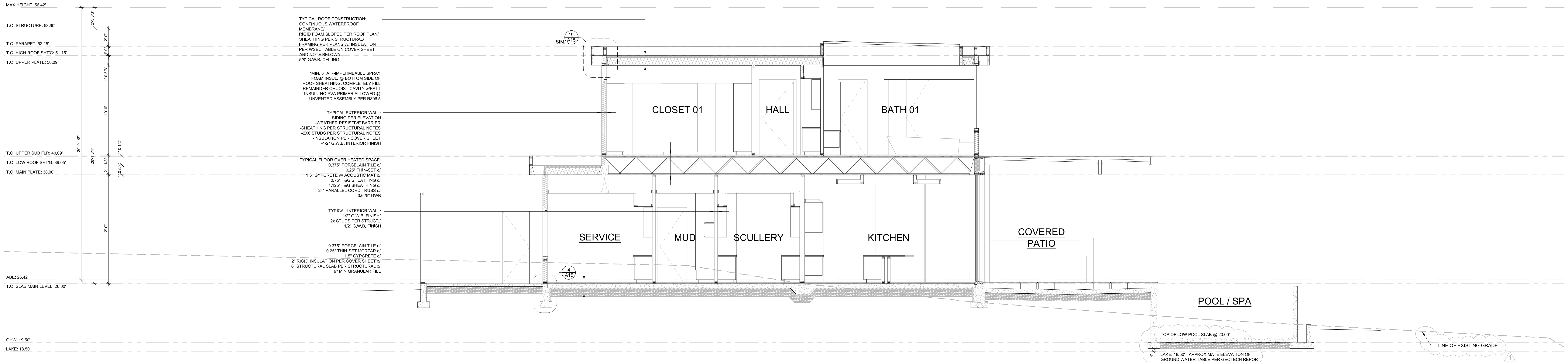
**KONERU RESIDENCE**  
6610 E Mercer Way  
Mercer Island, WA 98040

PERMIT SET  
Exterior Elevations



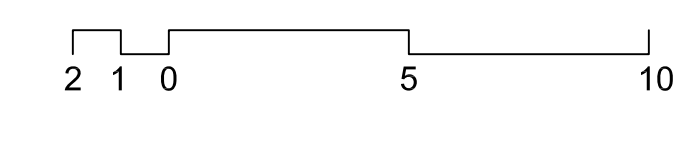






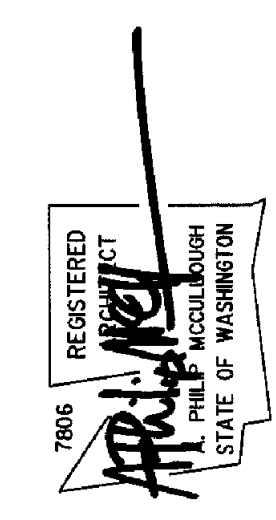
**SECTION 03**

SCALE: 1/4" = 1'-0"



Revisions	Comment
2021.11.17	Updated Plans to Structural
2021.12.13	Structural Backcheck 01
2021.12.13	Structural Backcheck 02
2021.12.22	Structural Backcheck 03
2022.05.02	Permit Corrections
2022.05.04	Structural Backcheck
2022.05.12	Commentary Response
<b>2022.07.13</b>	<b>Cycle 2 Structural Backcheck</b>
<b>2022.08.18</b>	<b>Cycle 3 Structural Backcheck</b>

Date: 2021.10.13  
Job No: 21-041  
Project No:  
Drawn: DJR  
Approved: APM



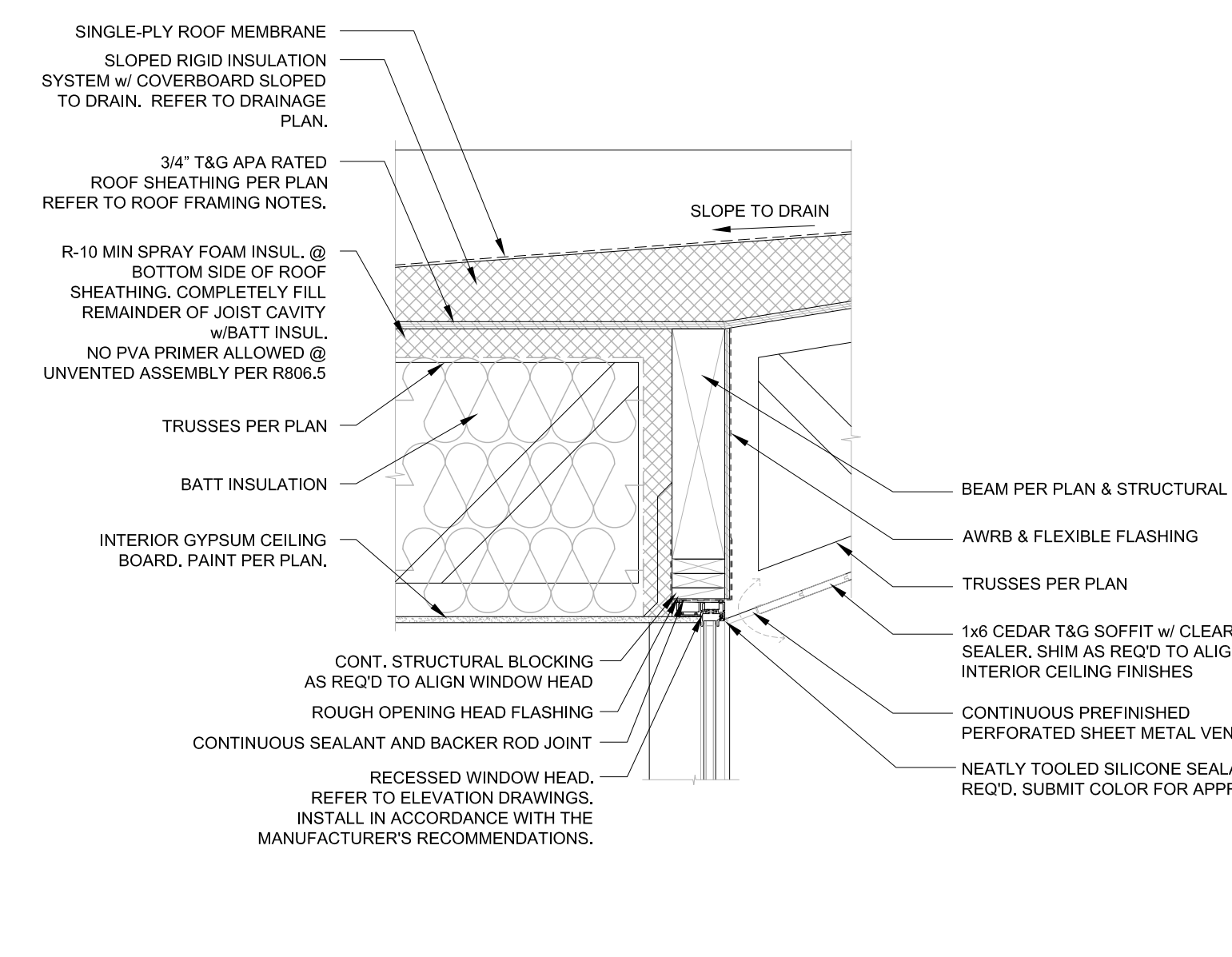
**KONERU RESIDENCE**  
6610 E Mercer Way  
Mercer Island, WA 98040

PERMIT SET

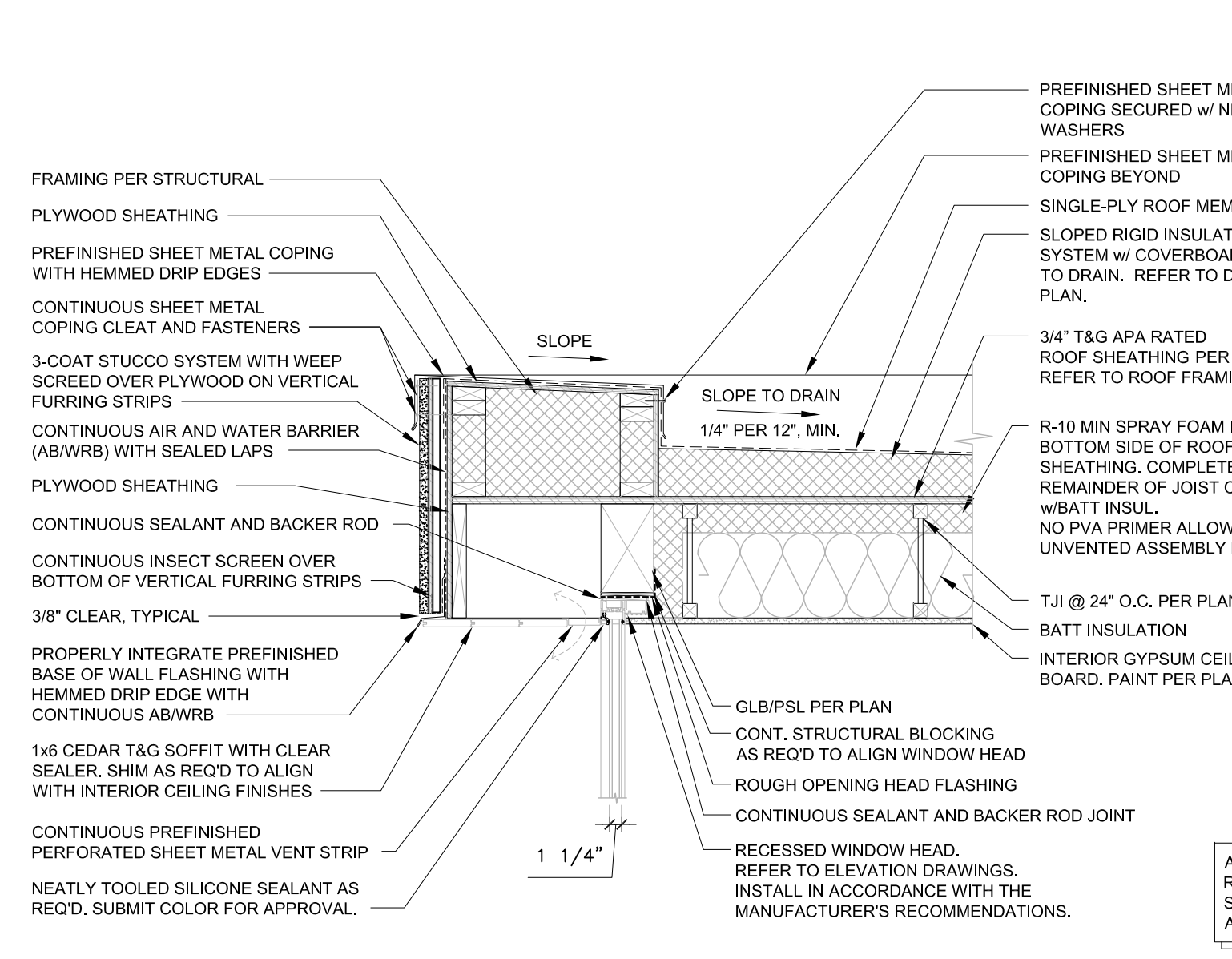
Building Sections

**A13**

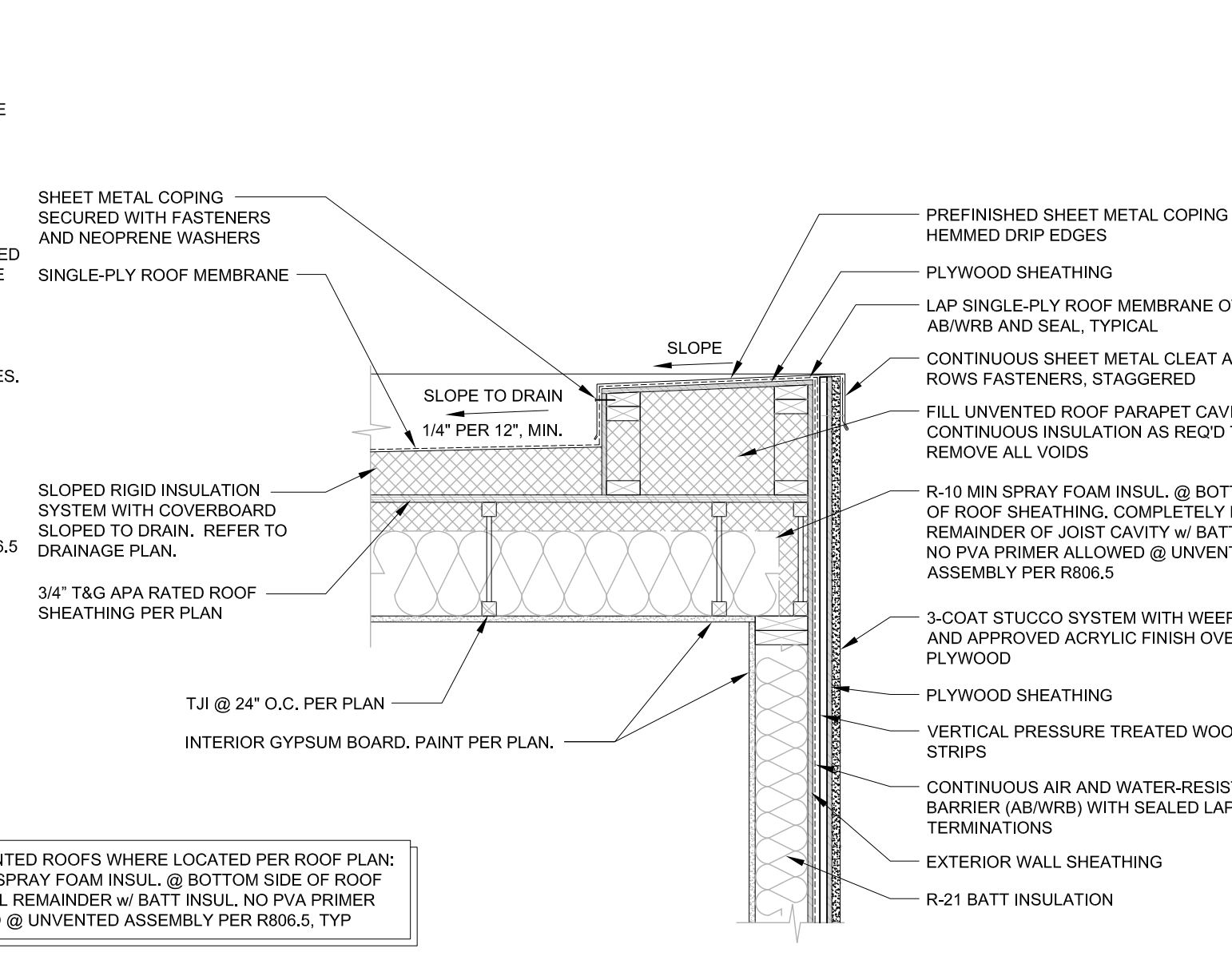




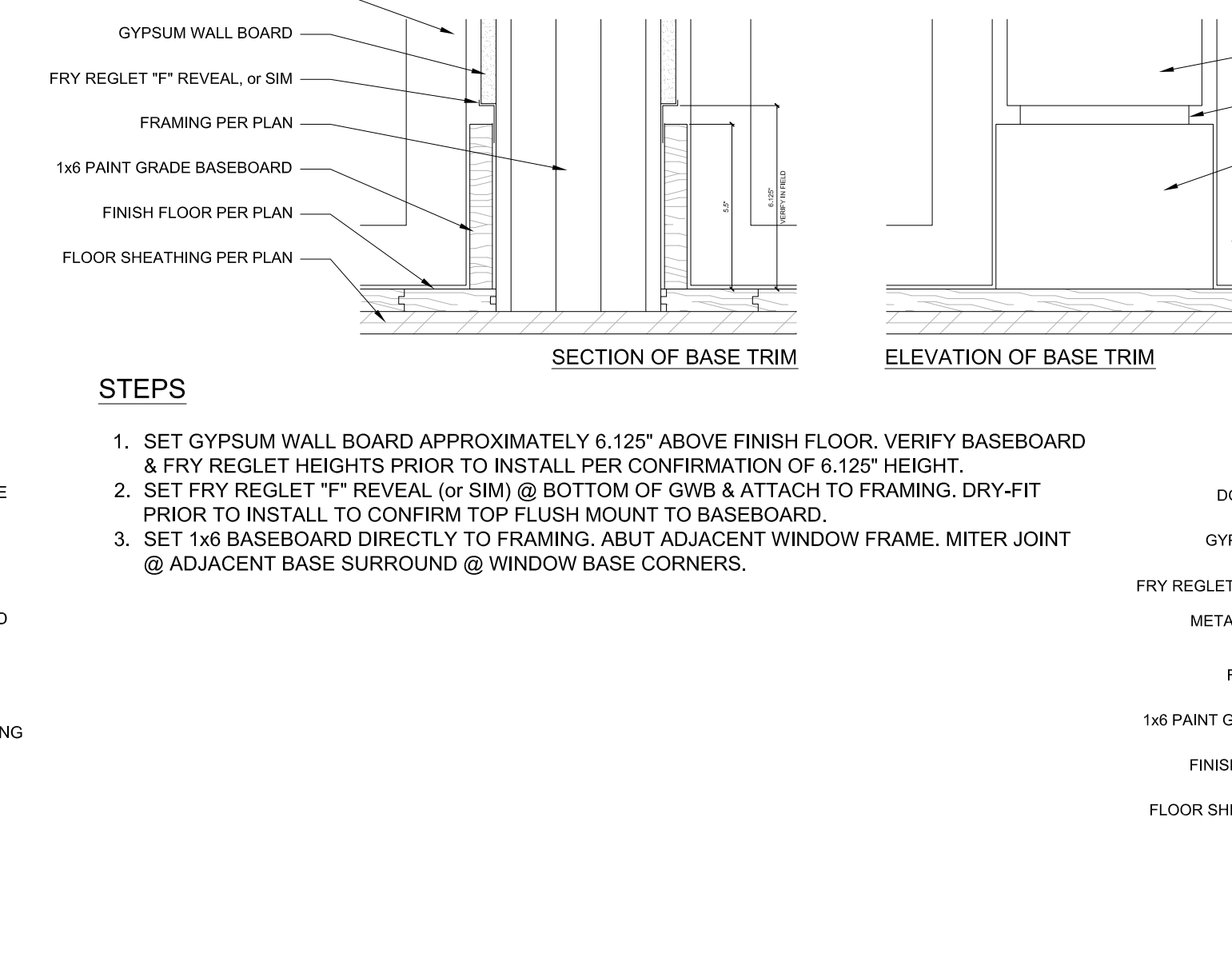
RECESSED WINDOW HEAD AT ENTRY PORTAL  
SCALE: 3/4" = 1'-0"



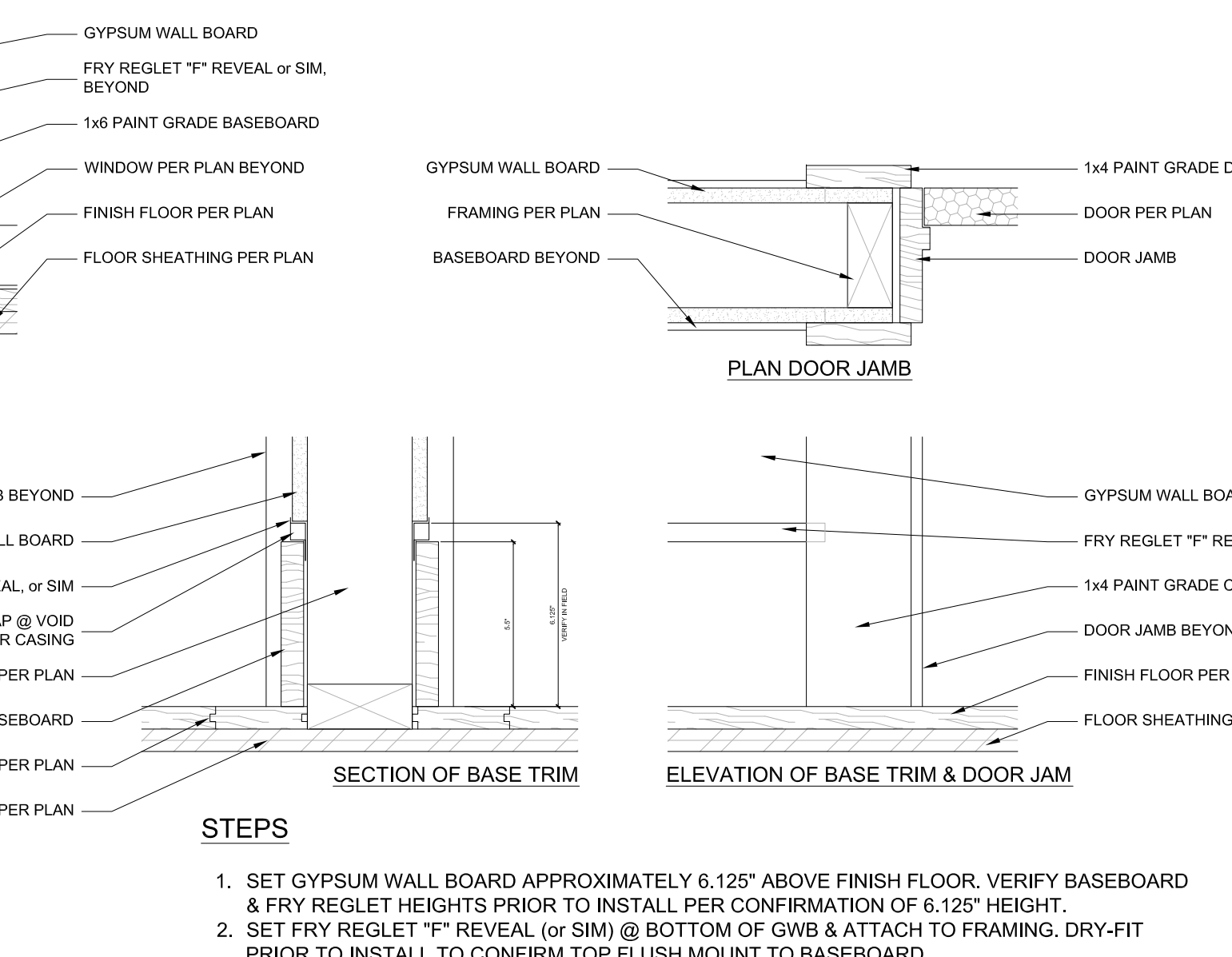
TYPICAL - ROOF EAVE @ UNVENTED PARAPET  
SCALE: 3/4" = 1'-0"



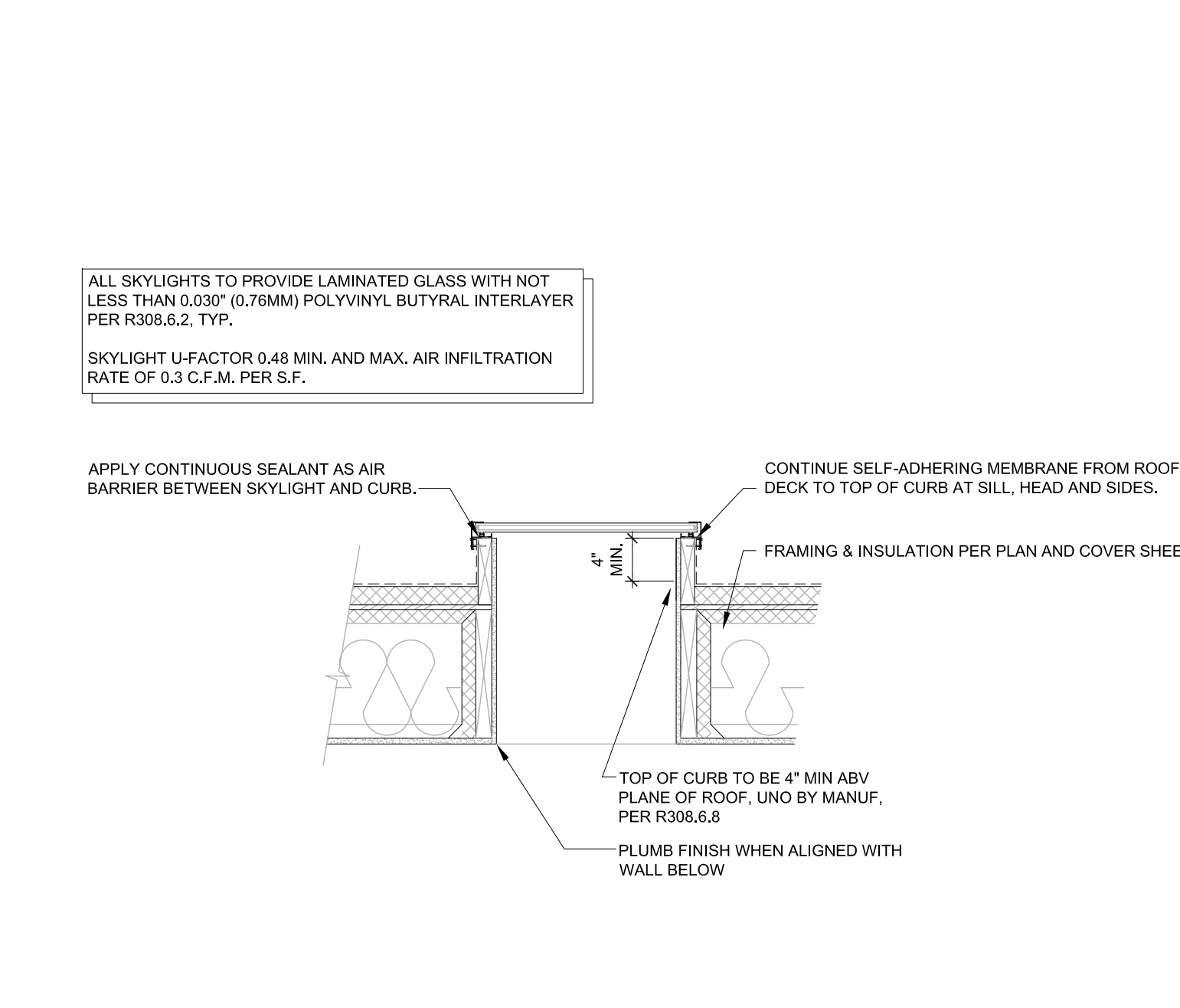
TYPICAL - ROOF @ UNVENTED PARAPET  
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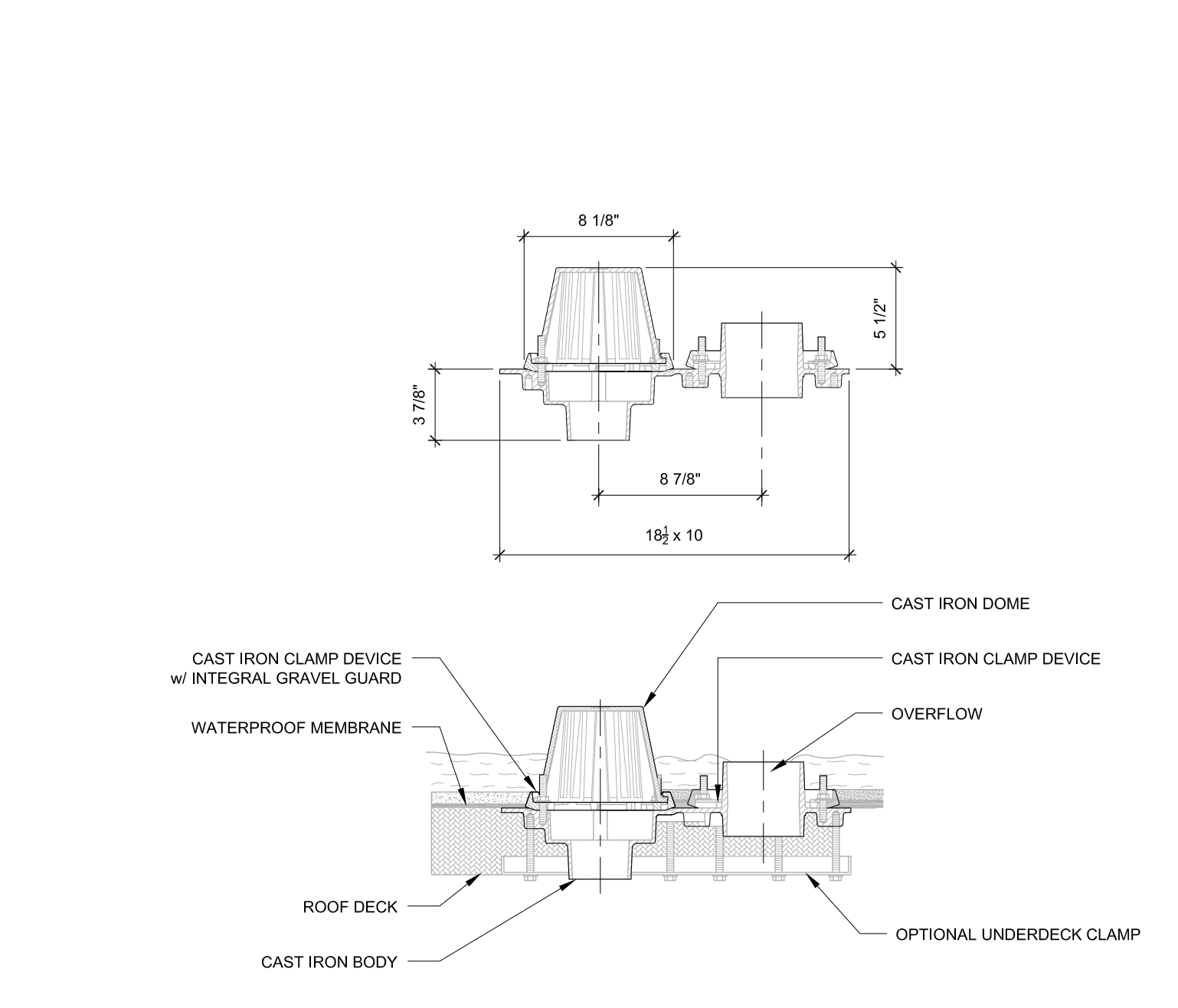
BASEBOARD & DOOR JAMB INTERSECTION DETAIL  
SCALE: 3/4" = 1'-0"



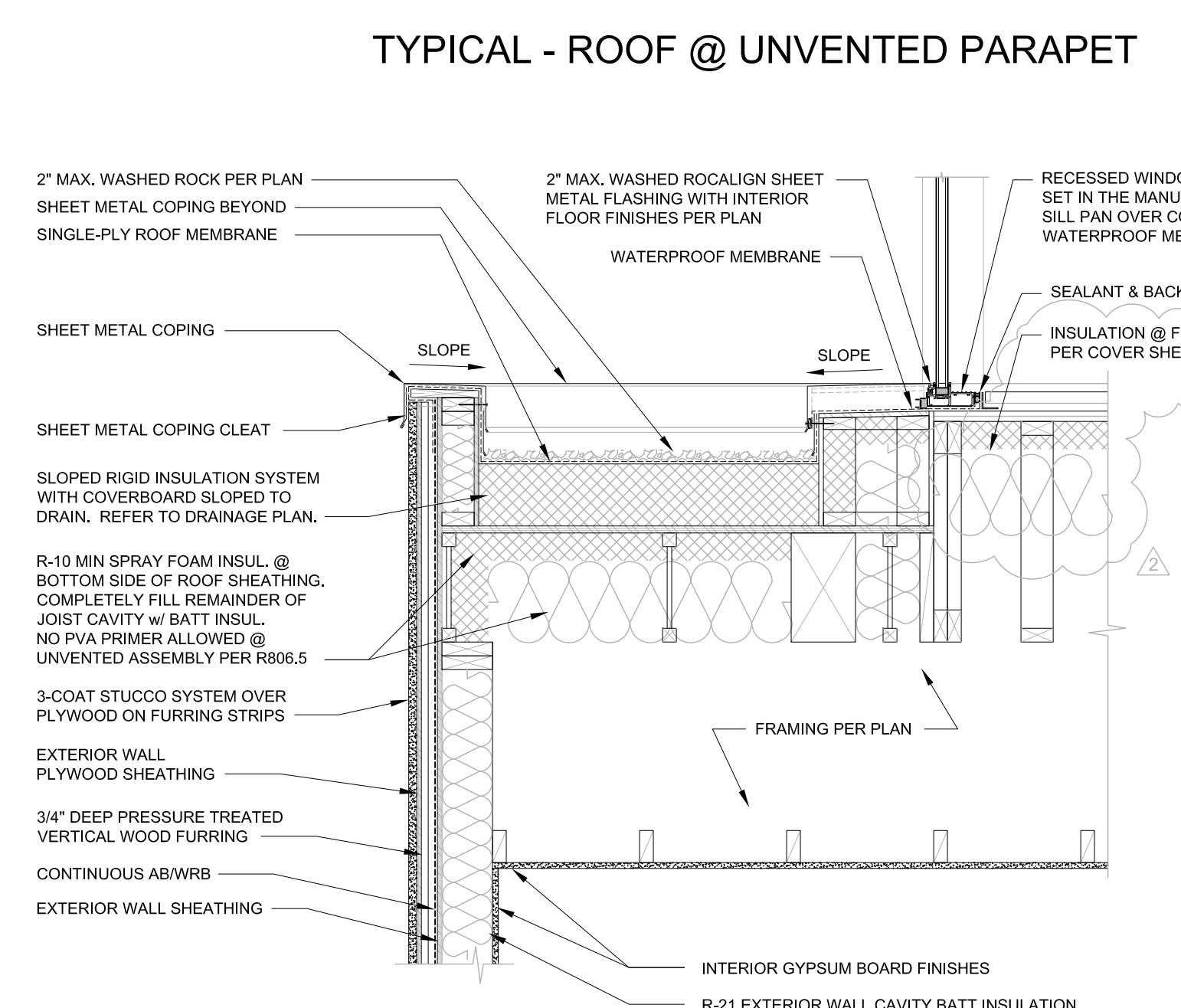
BASEBOARD & DOOR JAMB INTERSECTION DETAIL  
SCALE: 3/4" = 1'-0"



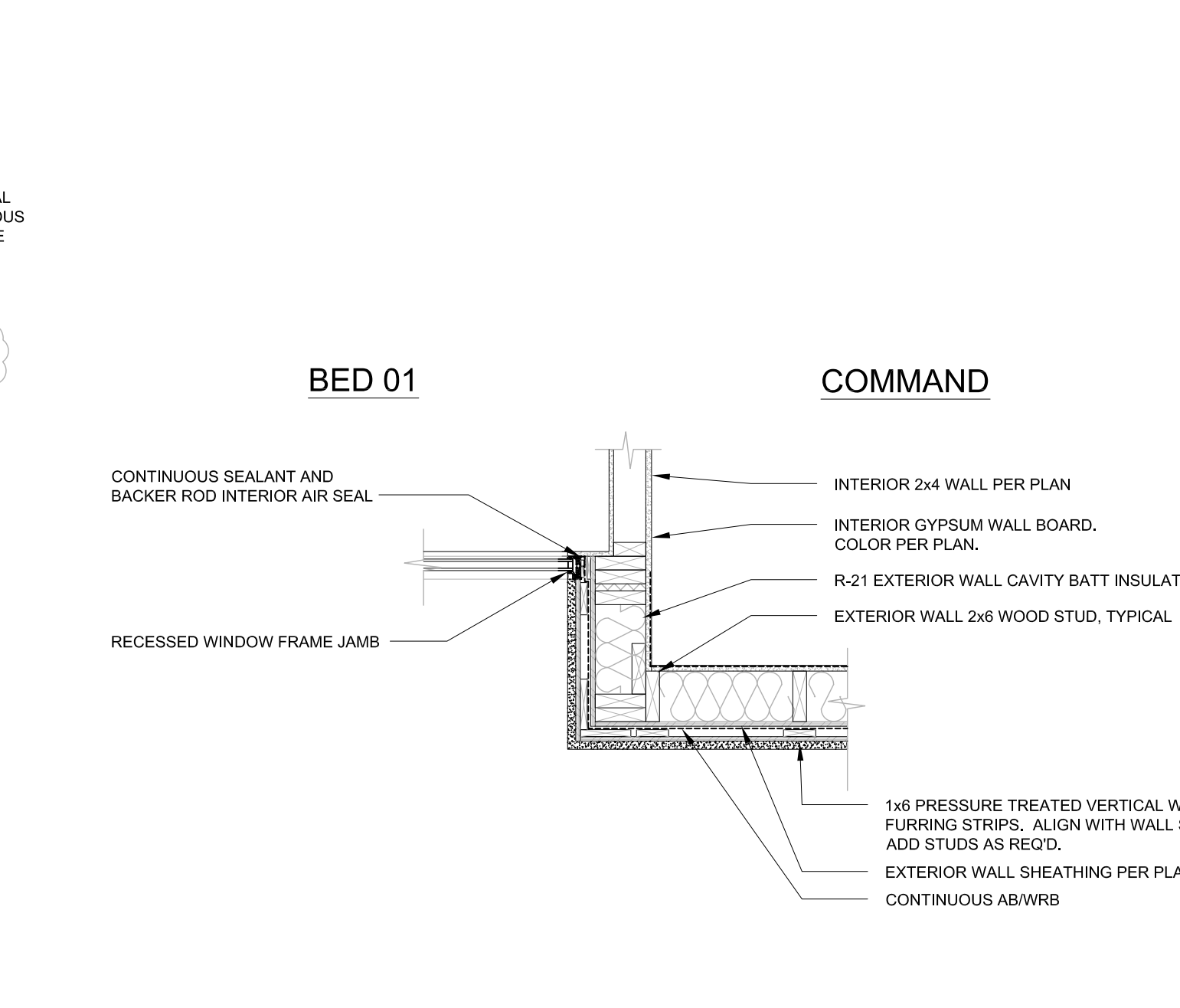
TYPICAL SKYLIGHT INSTALLATION  
SCALE: 3/4" = 1'-0"



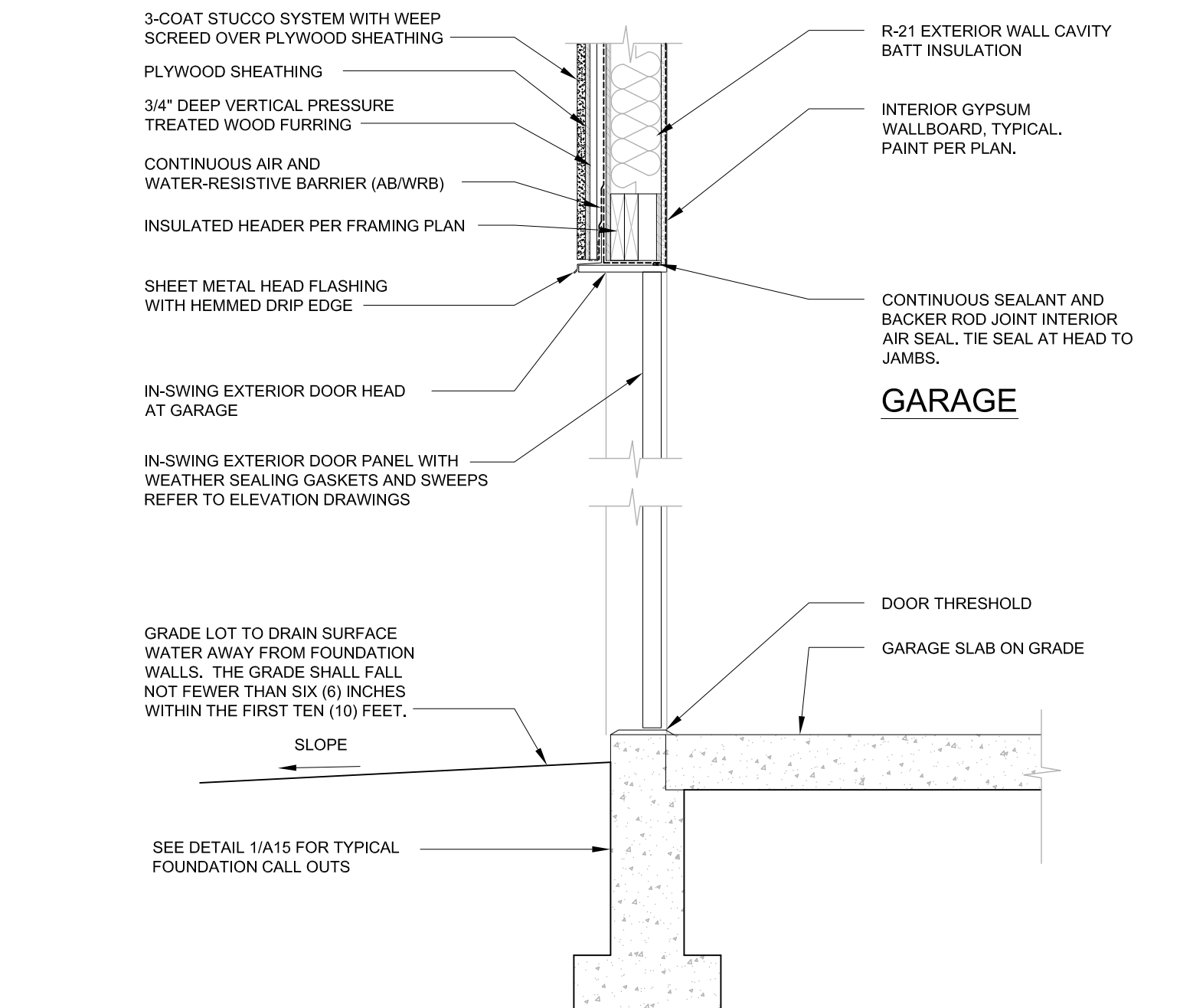
ROOF DRAIN & OVERFLOW @ DECK  
SCALE: 3/4" = 1'-0"



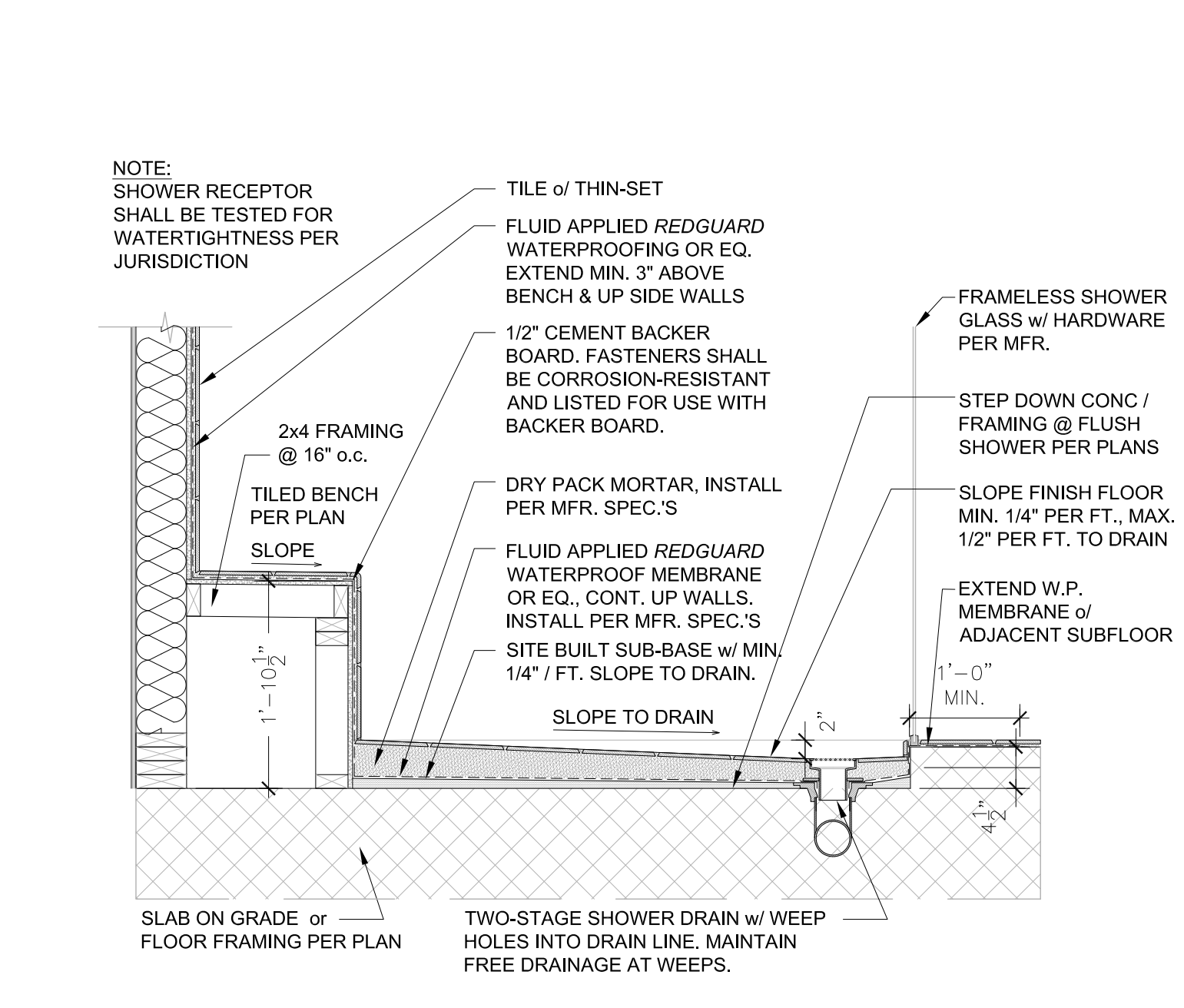
LOW ROOF AT RECESSED WINDOW SILL  
SCALE: 3/4" = 1'-0"



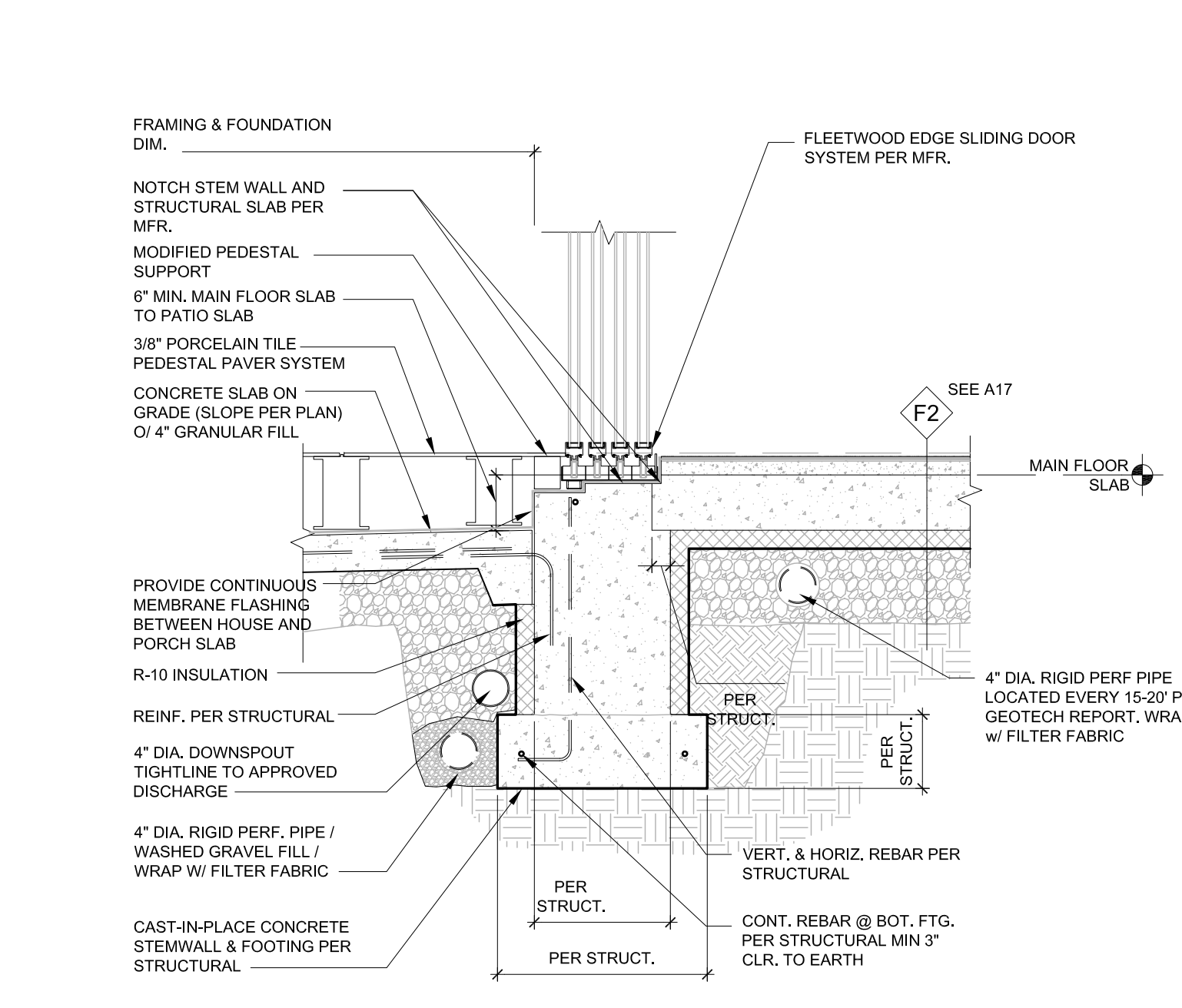
TYPICAL - RECESSED WINDOW JAMB  
SCALE: 3/4" = 1'-0"



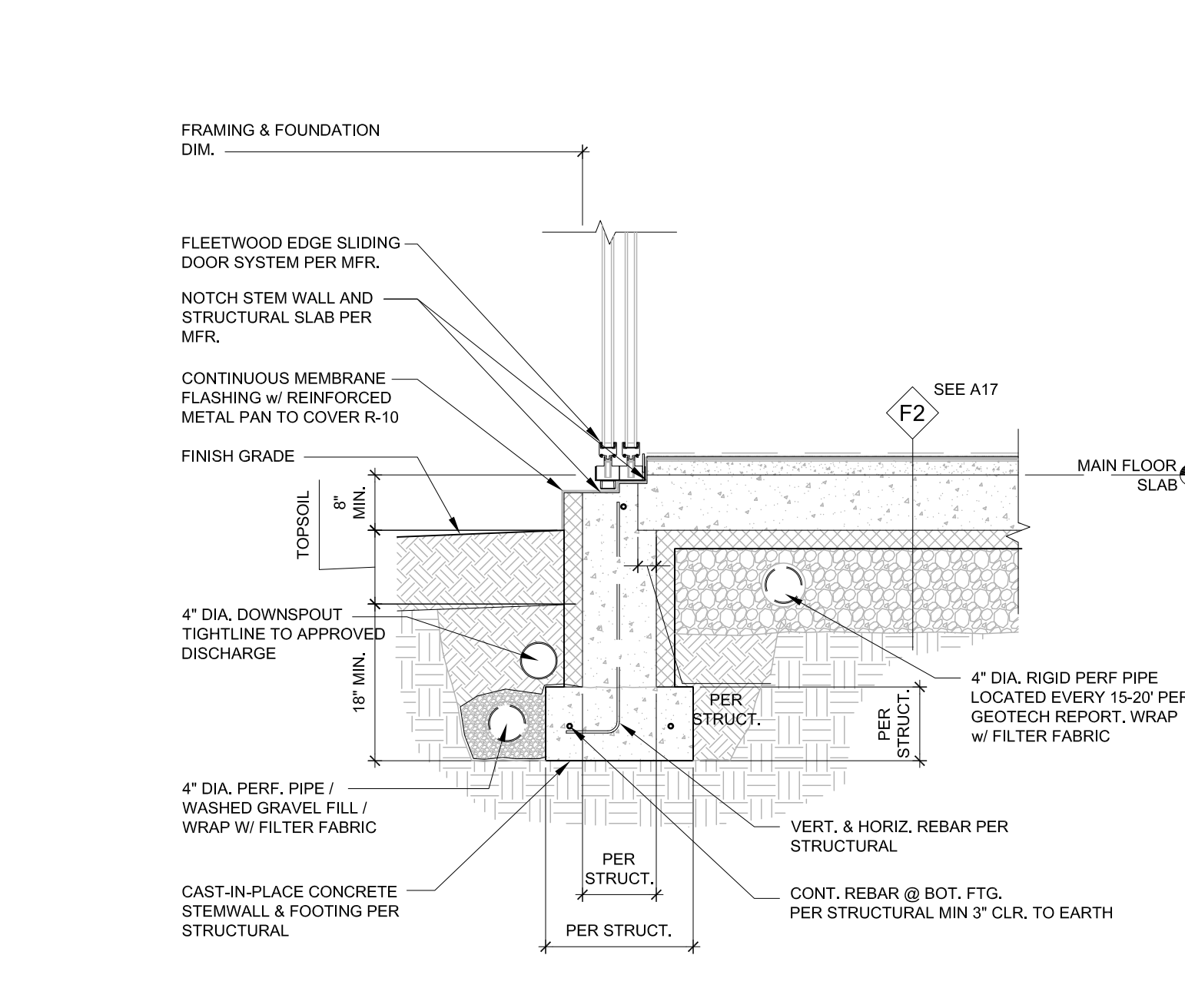
TYPICAL - EXTERIOR SWING DOOR  
SCALE: 3/4" = 1'-0"



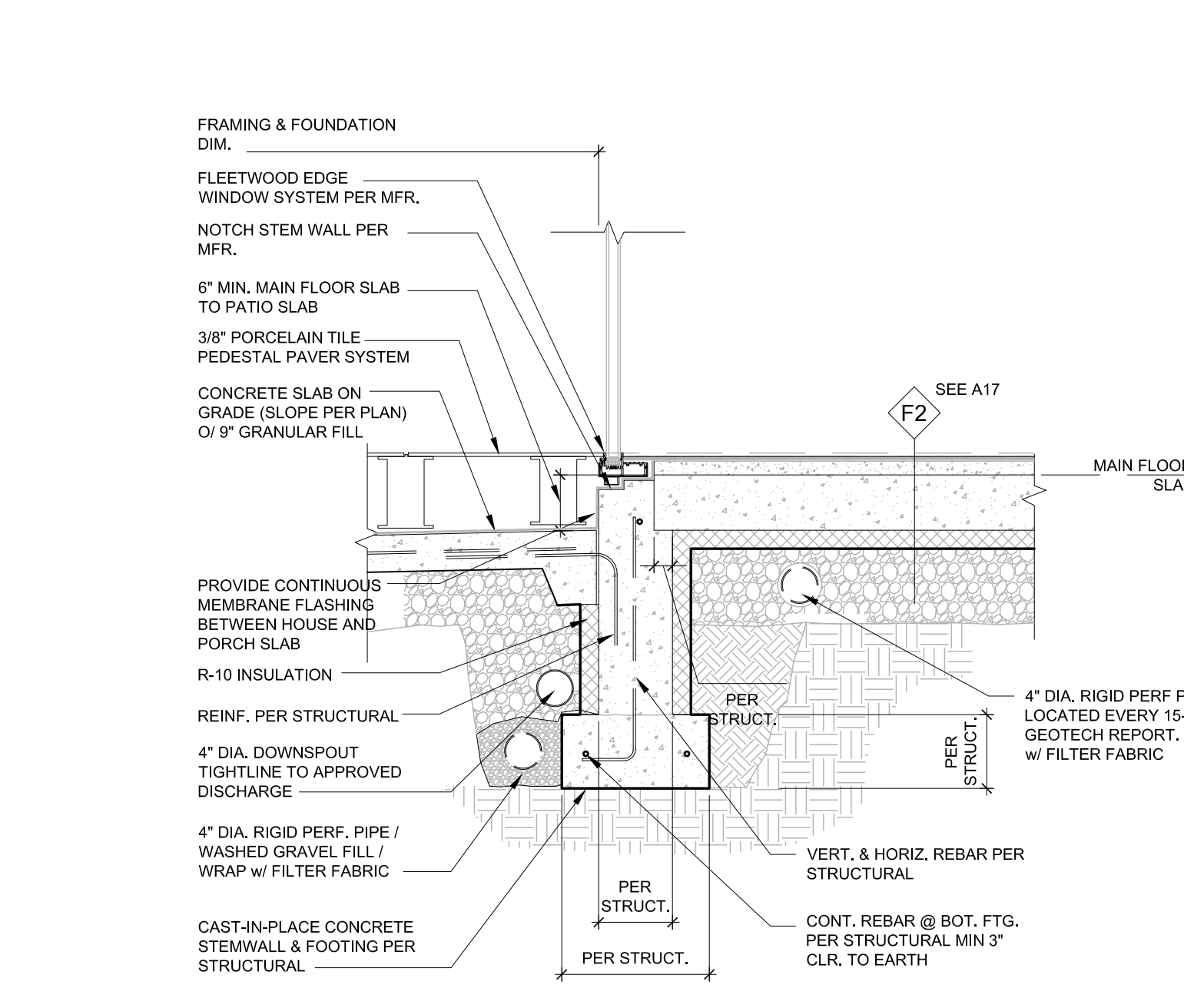
RECESSED MUD SET SHOWER  
SCALE: 3/4" = 1'-0"



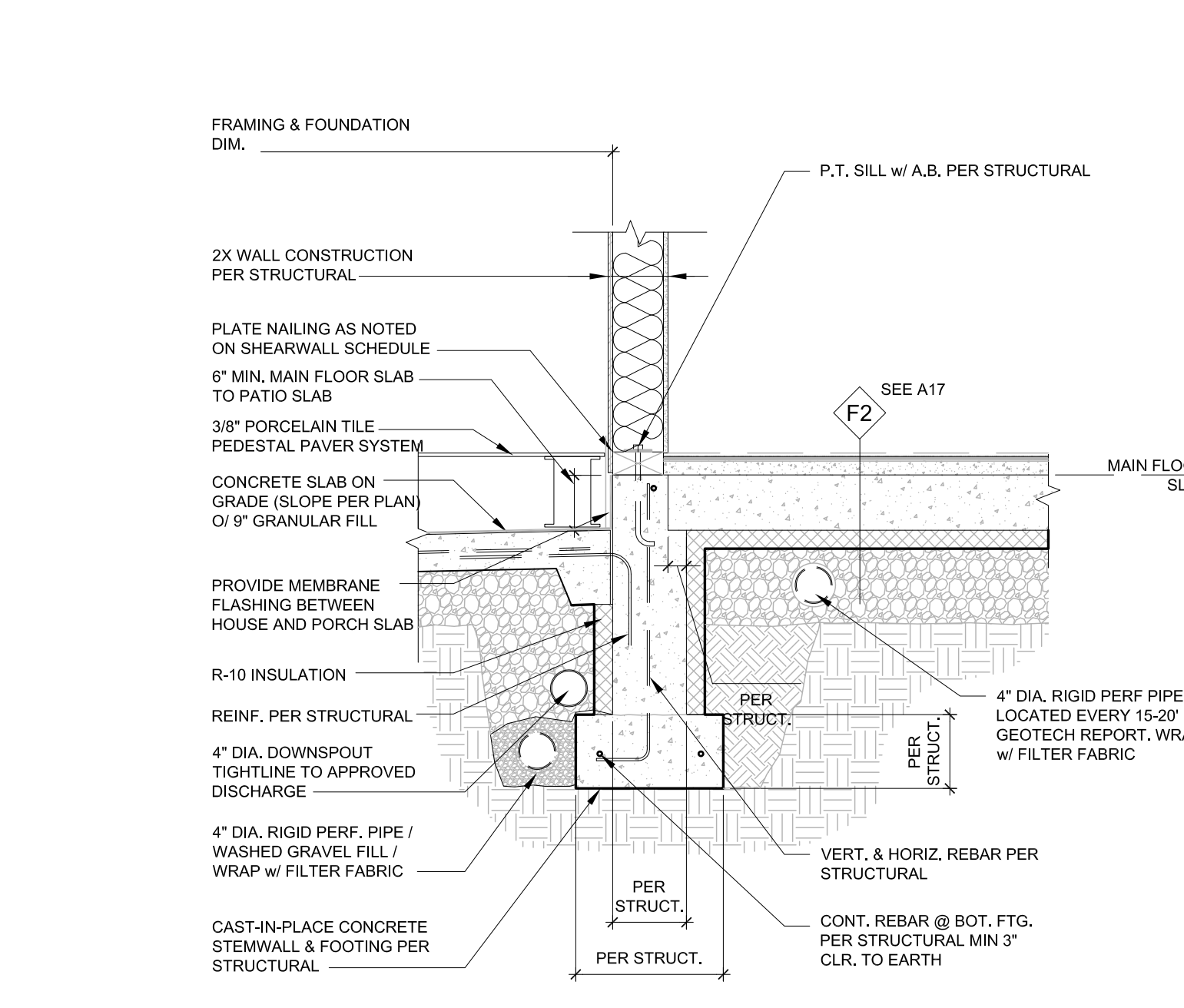
PORCH SLAB @ SLIDING DOOR SILL  
SCALE: 3/4" = 1'-0"



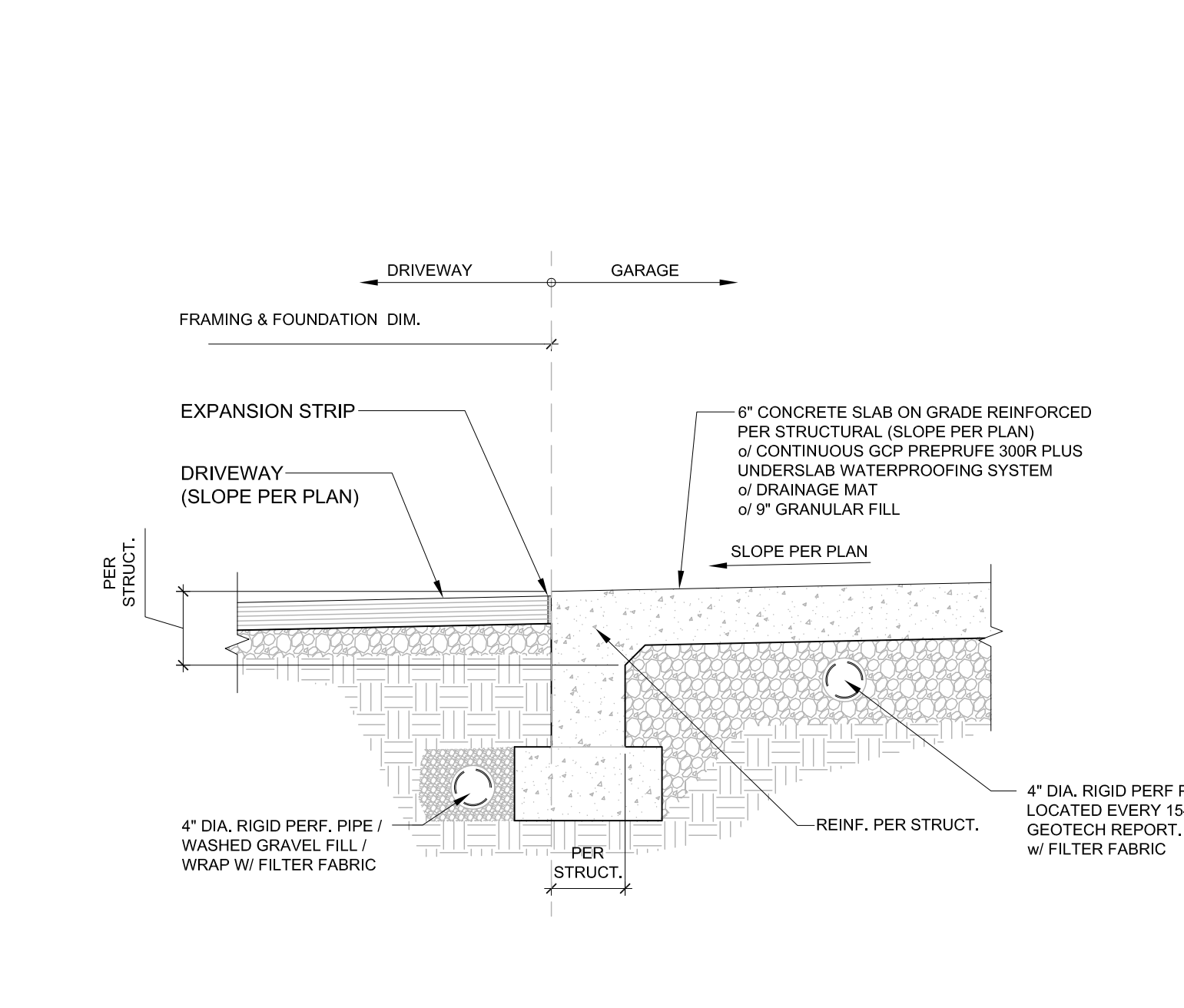
SLIDING DOOR SILL @ HOUSE PERIMETER  
SCALE: 3/4" = 1'-0"



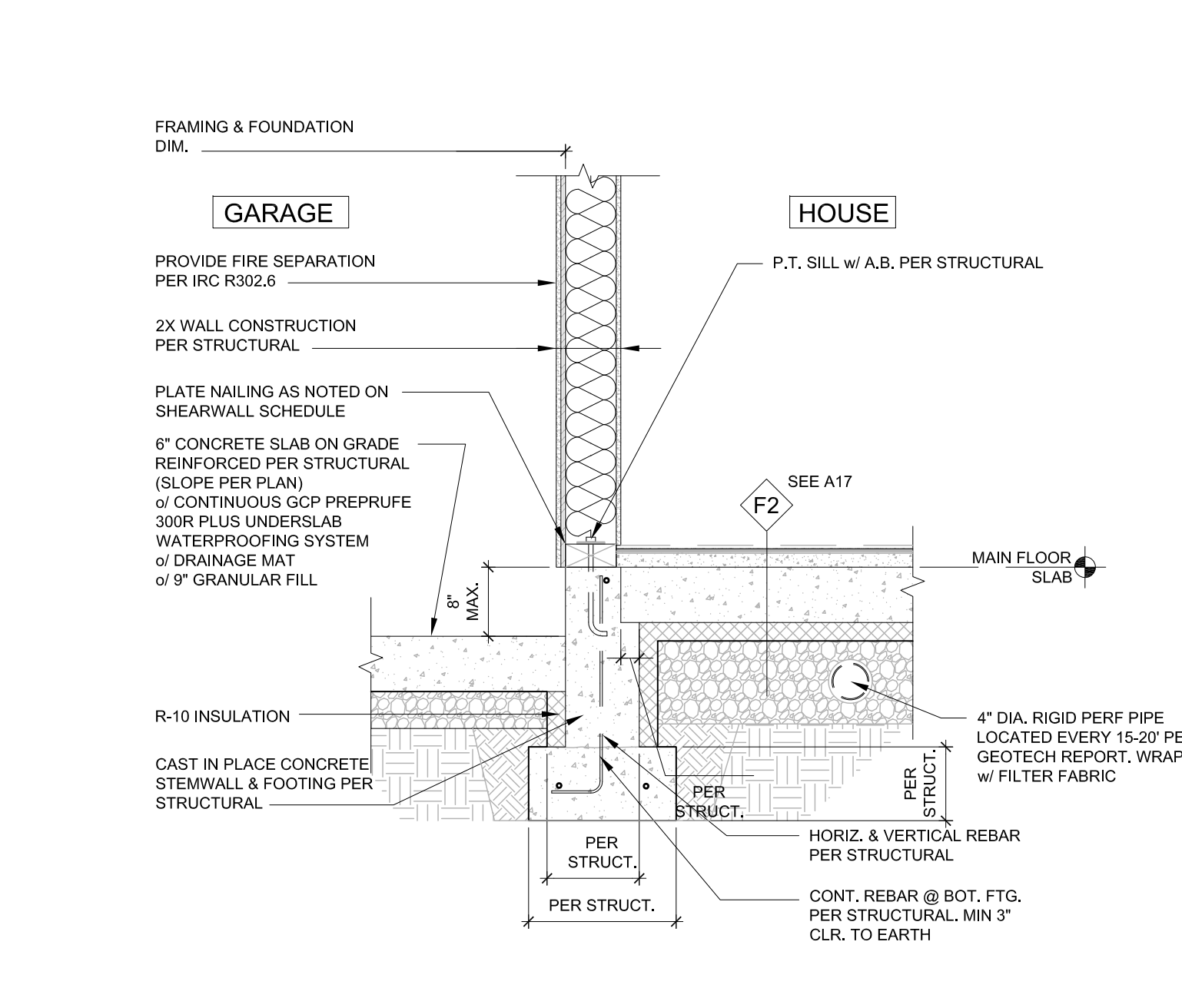
PORCH SLAB @ WINDOW  
SCALE: 3/4" = 1'-0"



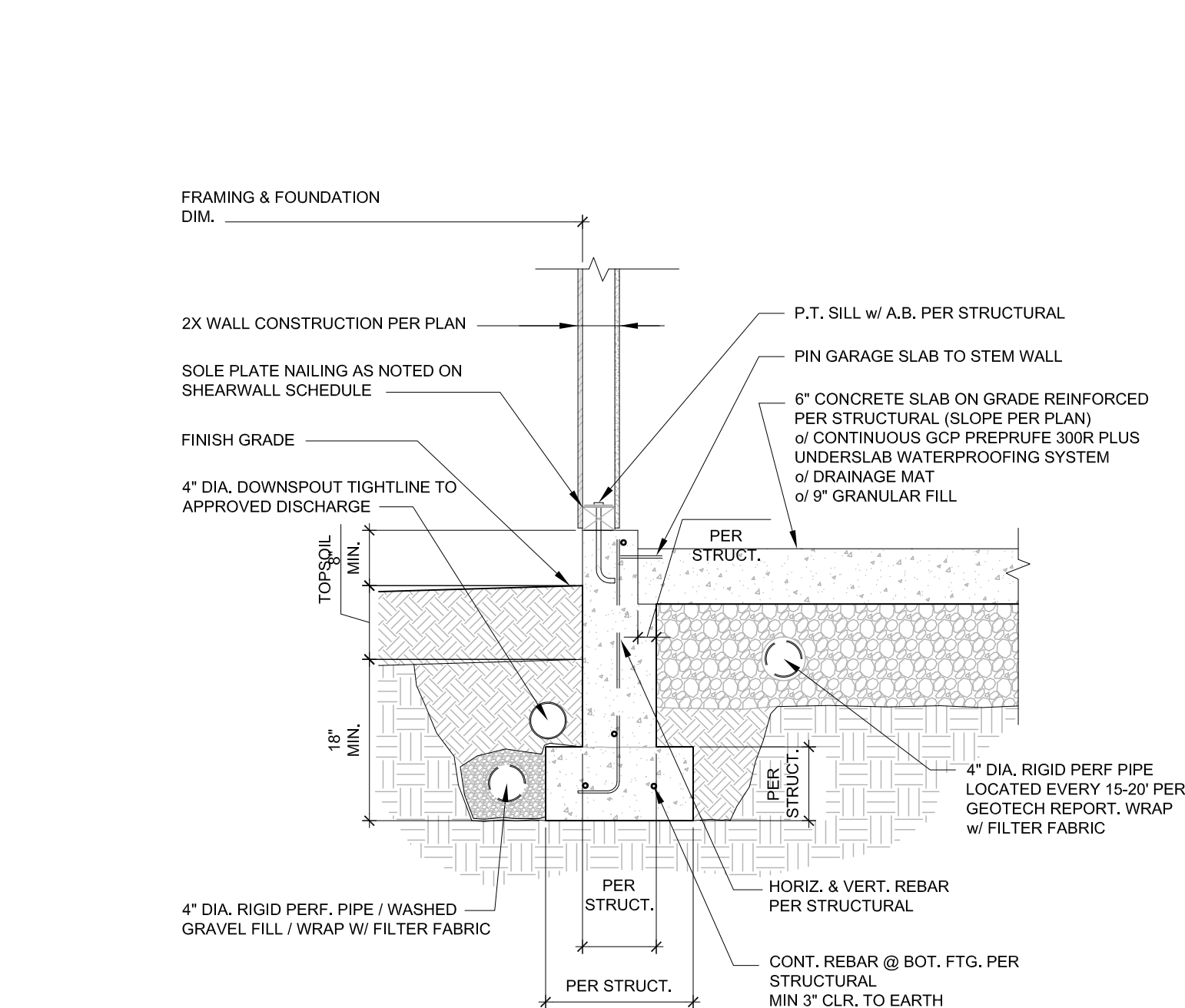
PORCH SLAB @ HOUSE PERIMETER  
SCALE: 3/4" = 1'-0"



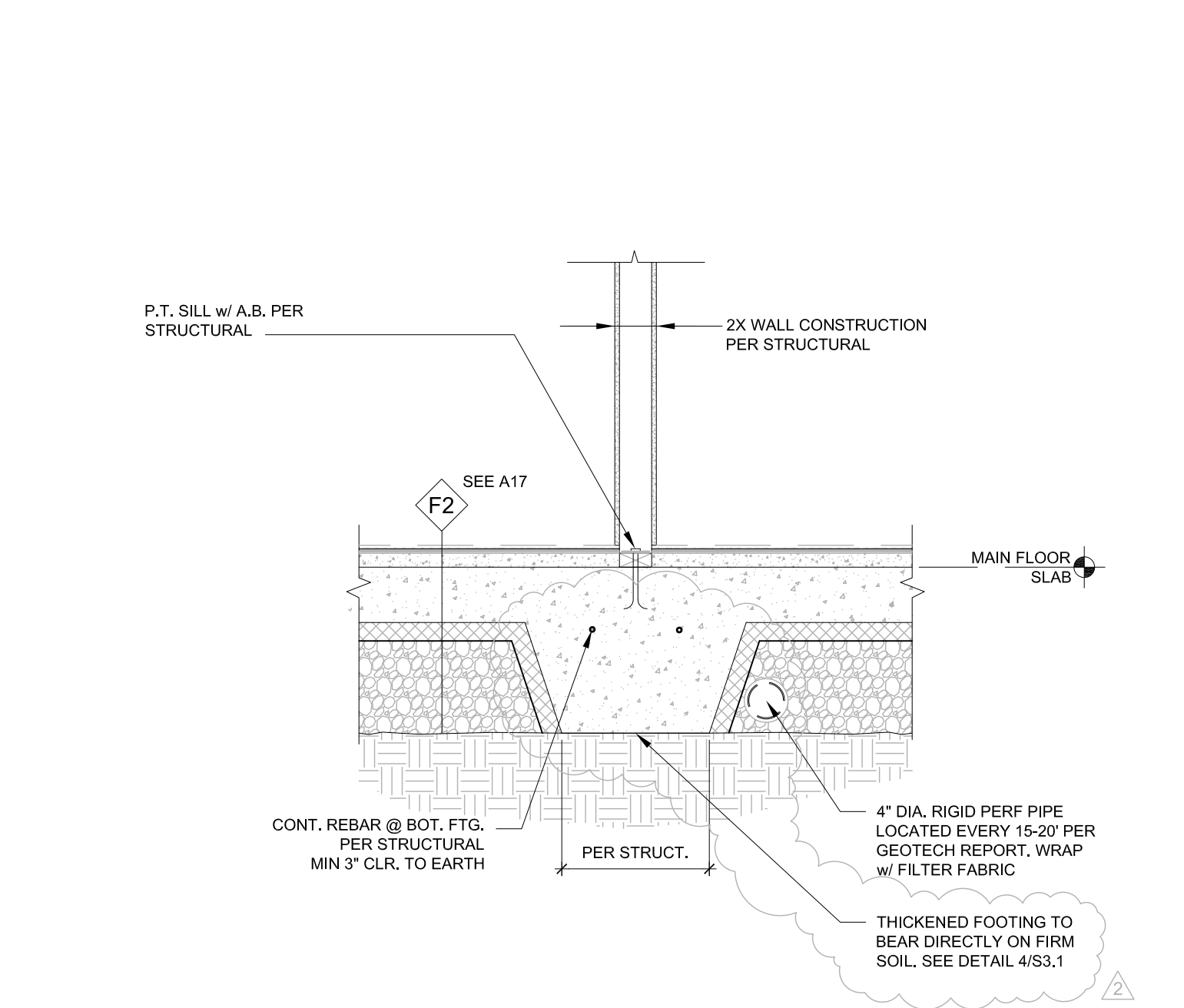
FOUNDATION @ GARAGE DOOR  
SCALE: 3/4" = 1'-0"



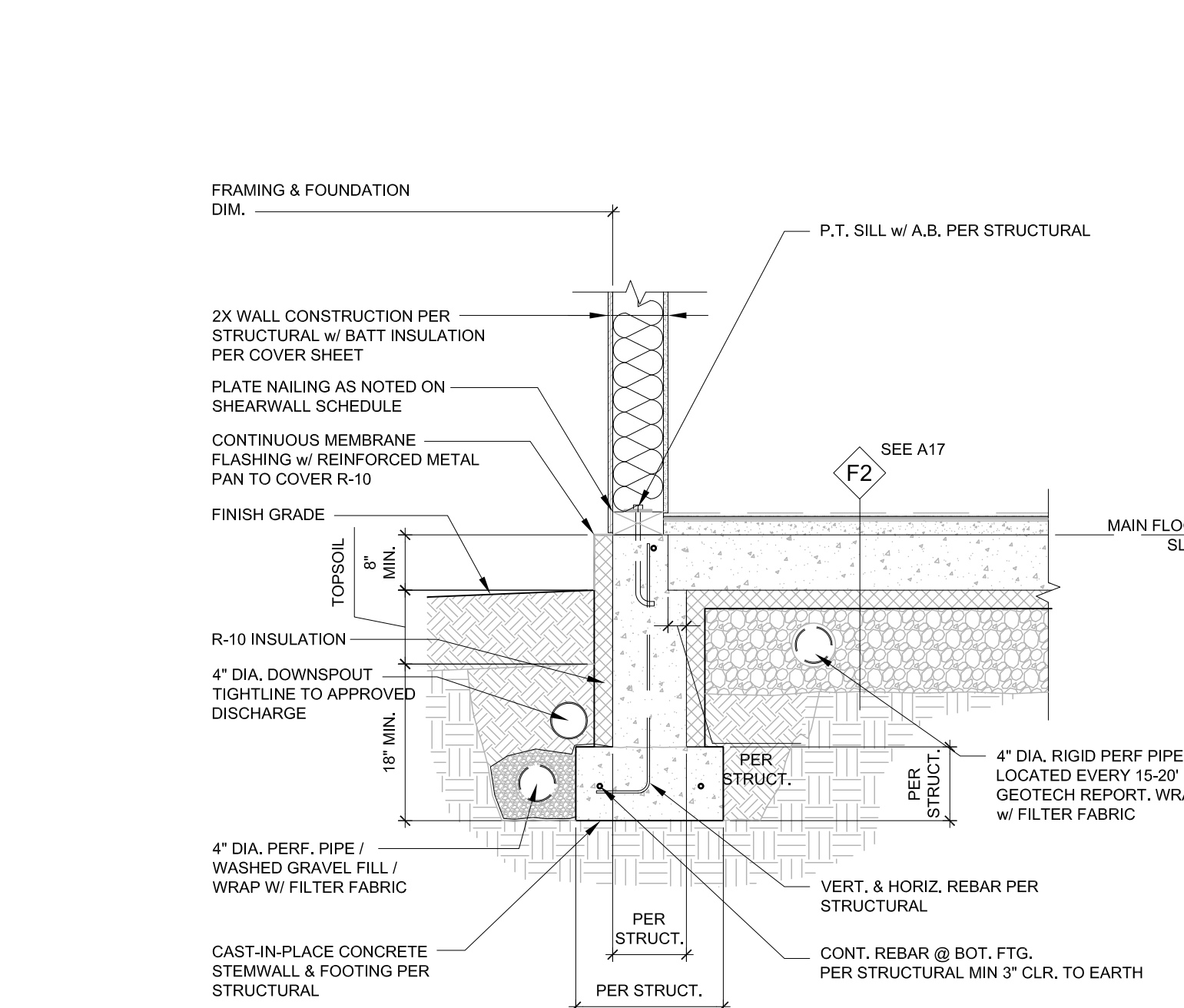
FOUNDATION @ GARAGE-HOUSE  
SCALE: 3/4" = 1'-0"



FOUNDATION @ GARAGE PERIMETER  
SCALE: 3/4" = 1'-0"



INTERIOR THICKENED SLAB  
SCALE: 3/4" = 1'-0"



FOUNDATION @ HOUSE PERIMETER  
SCALE: 3/4" = 1'-0"

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Comment: Updated Plans to Structural Backcheck 01, Structural Backcheck 02, Structural Backcheck 03, Permit Corrections, Structural Backcheck, Commentary Backcheck, Cycle 2 Structural Backcheck, Cycle 3 Structural Backcheck

Revisions: 2021.11.17, 2021.12.13, 2021.12.13, 2022.05.02, 2022.05.02, 2022.05.04, 2022.05.12, 2022.07.13, 2022.06.18

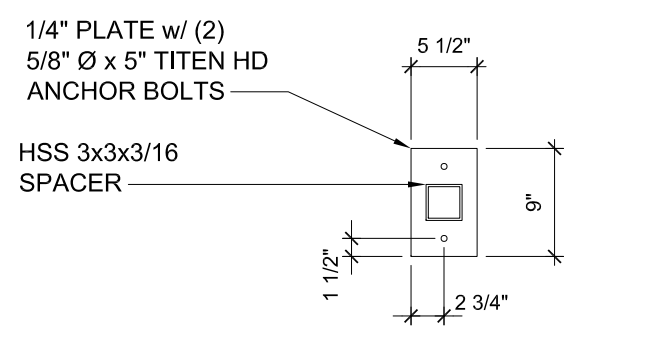
Date: 2021.10.13  
Job No: 21-041  
Project No:  
Drawn: DJR  
Approved: APM

**KONERU RESIDENCE**  
6610 E Mercer Way  
Mercer Island, WA 98040

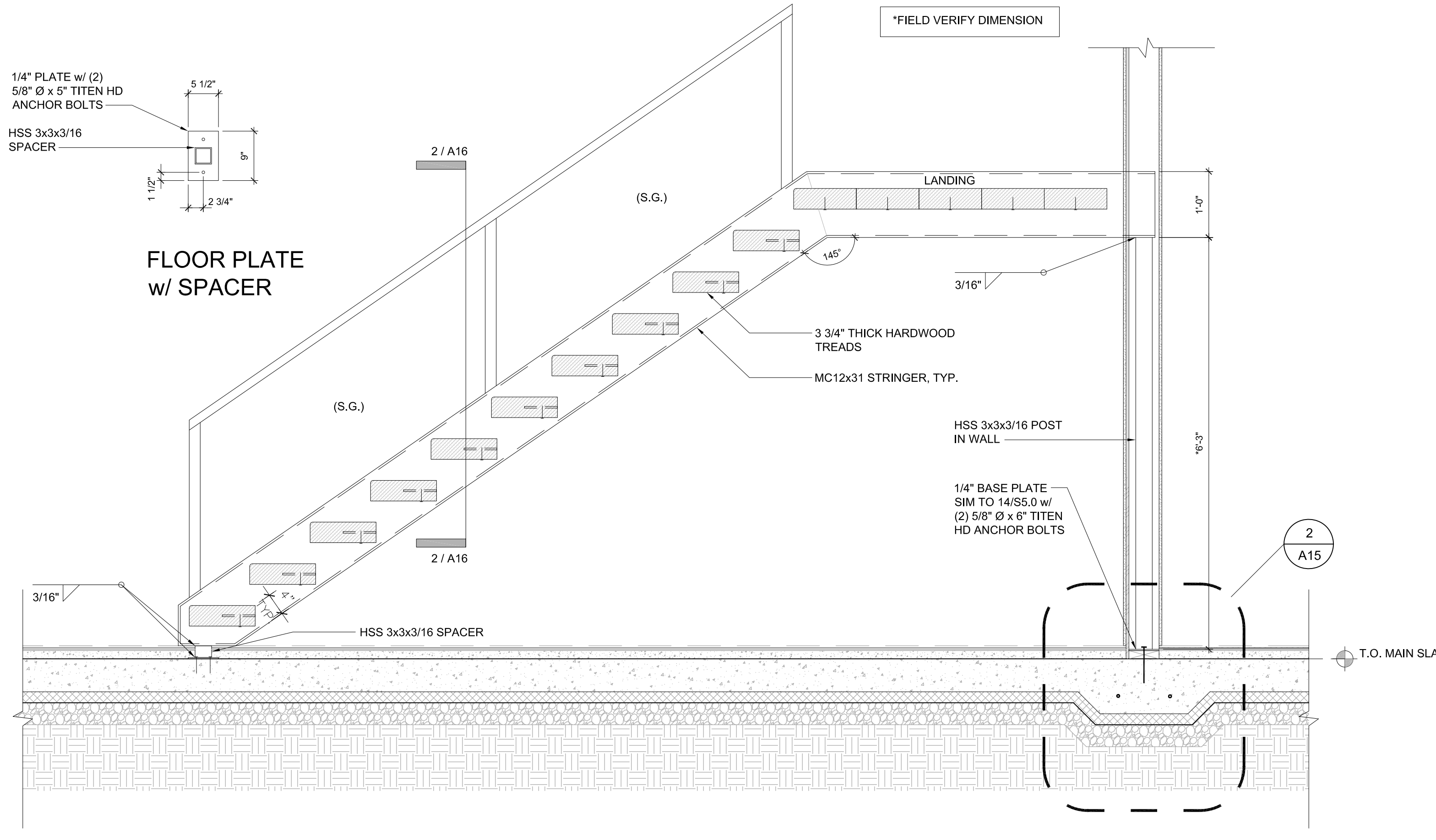
PERMIT SET  
Architectural Details

**A15**

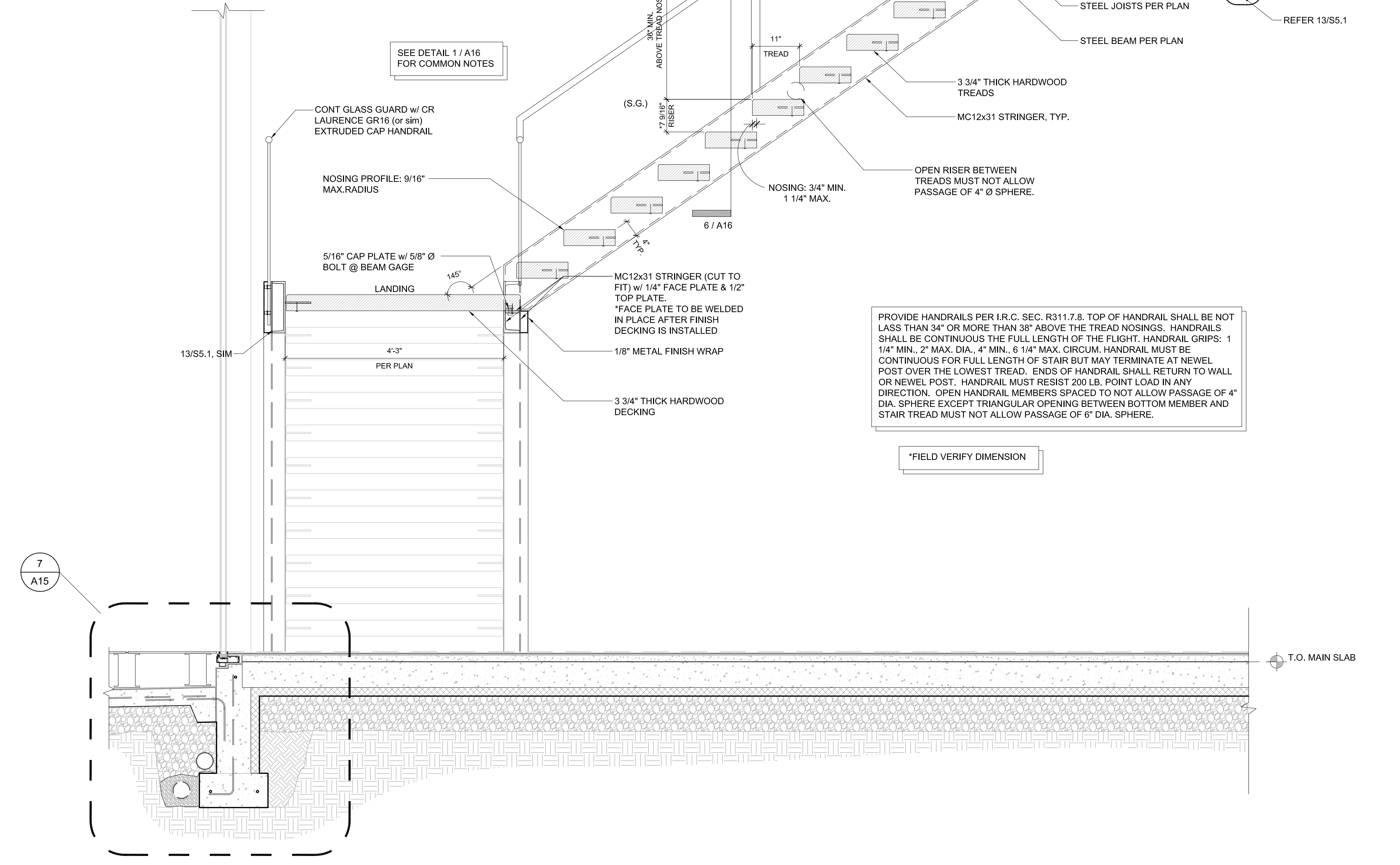




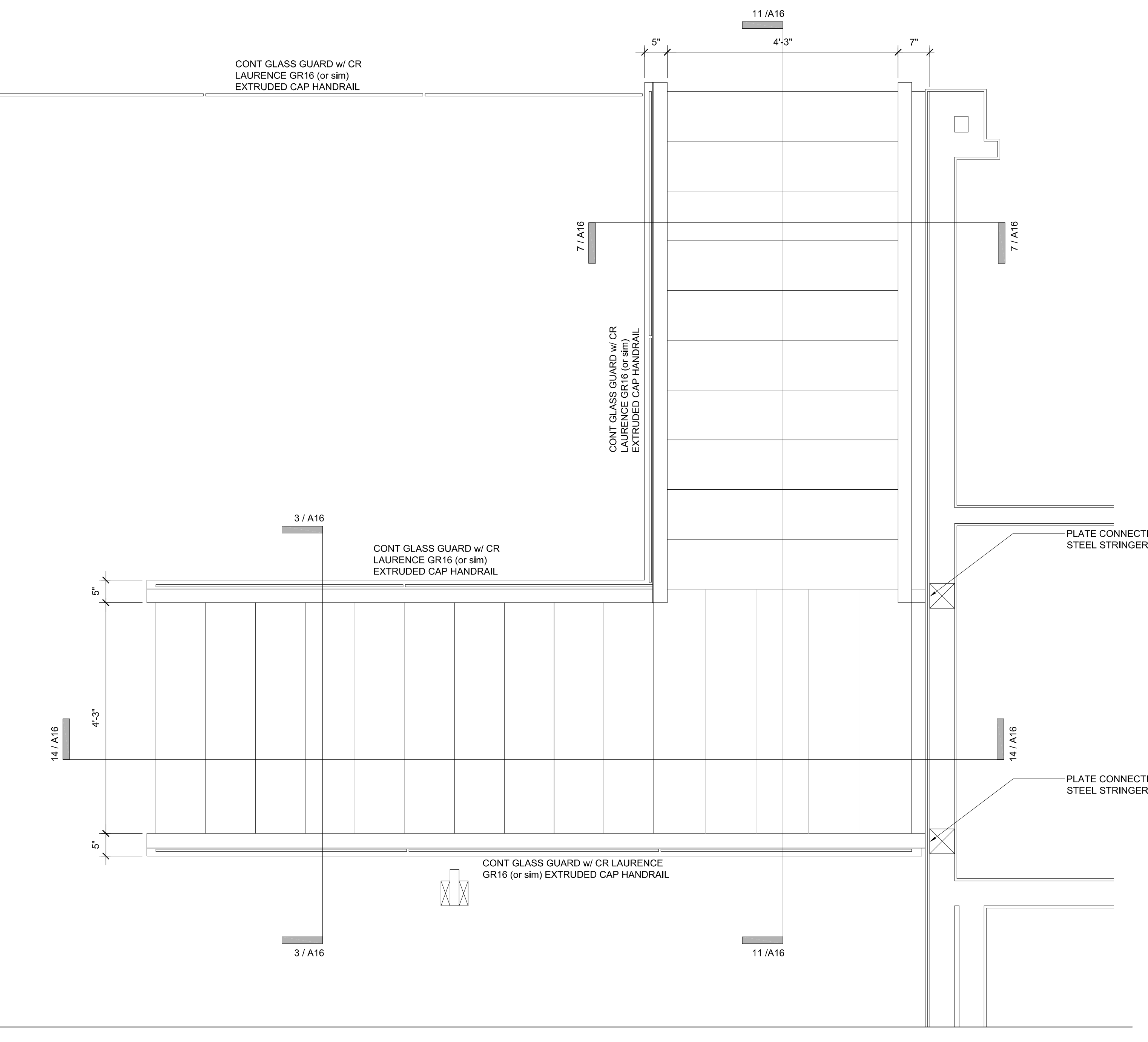
**FLOOR PLATE w/ SPACER**



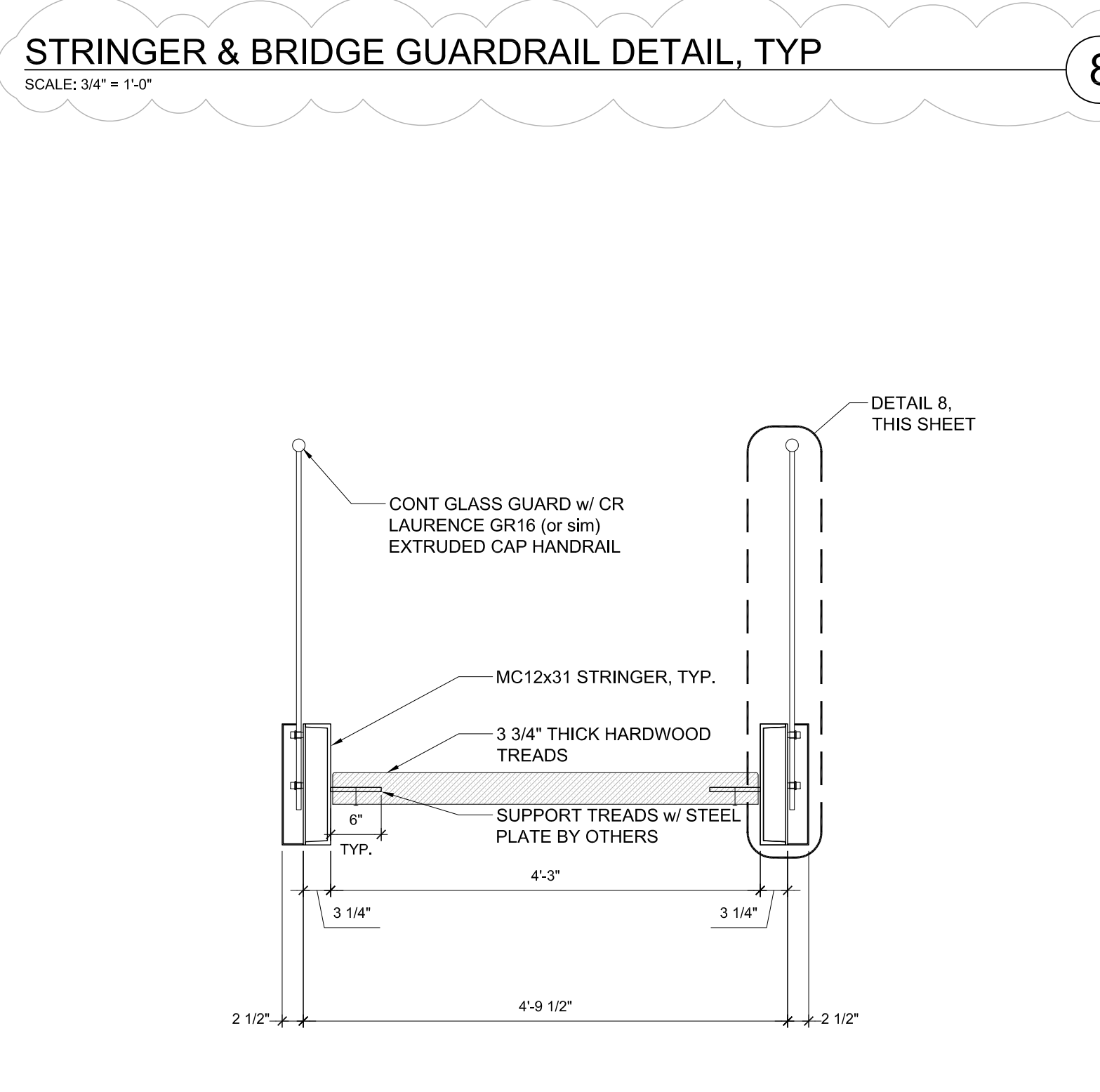
**OPEN RISER STAIR - LOWER SECTION**  
SCALE: 3/4" = 1'-0"



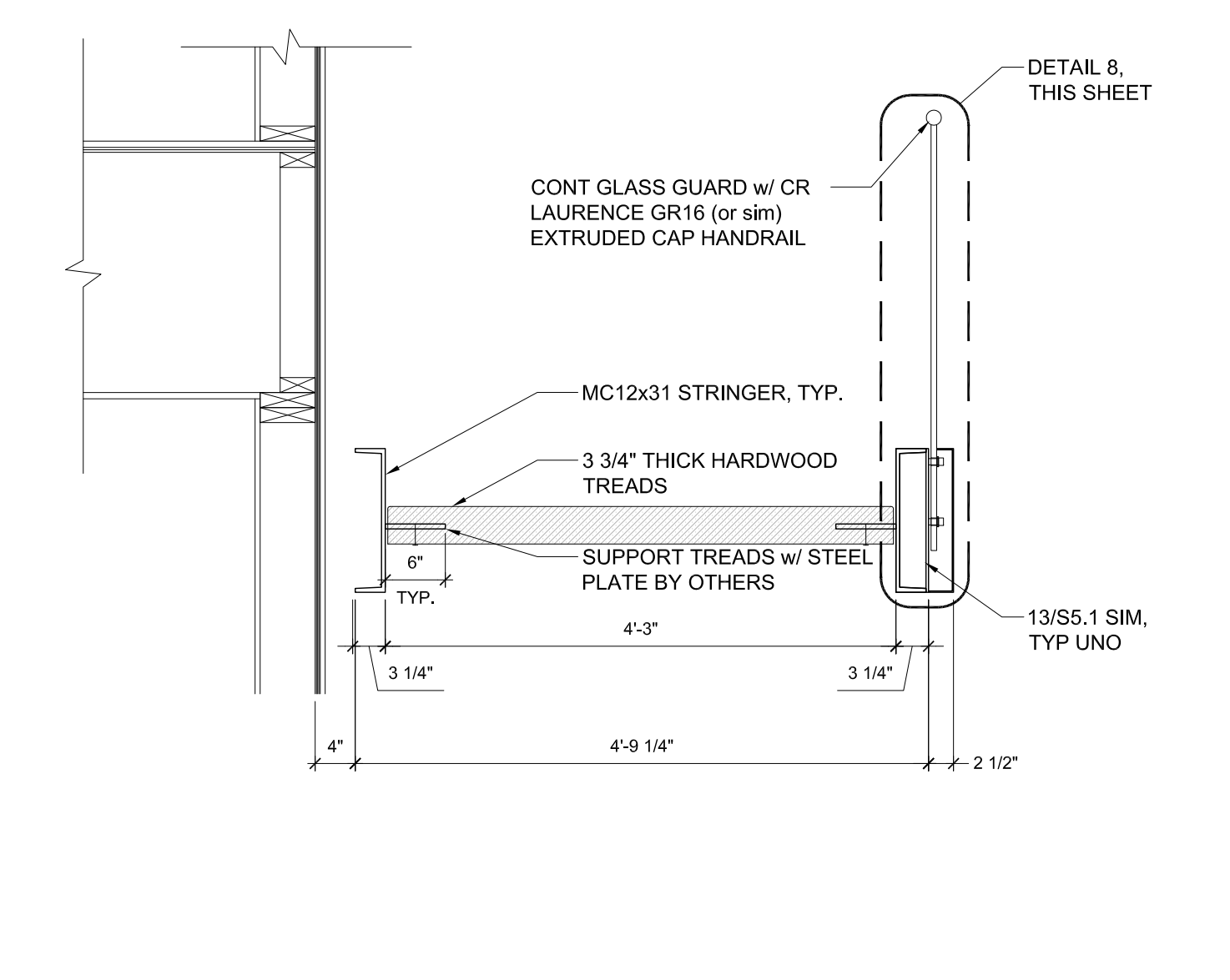
**OPEN RISER STAIR - UPPER SECTION**  
SCALE: 3/4" = 1'-0"



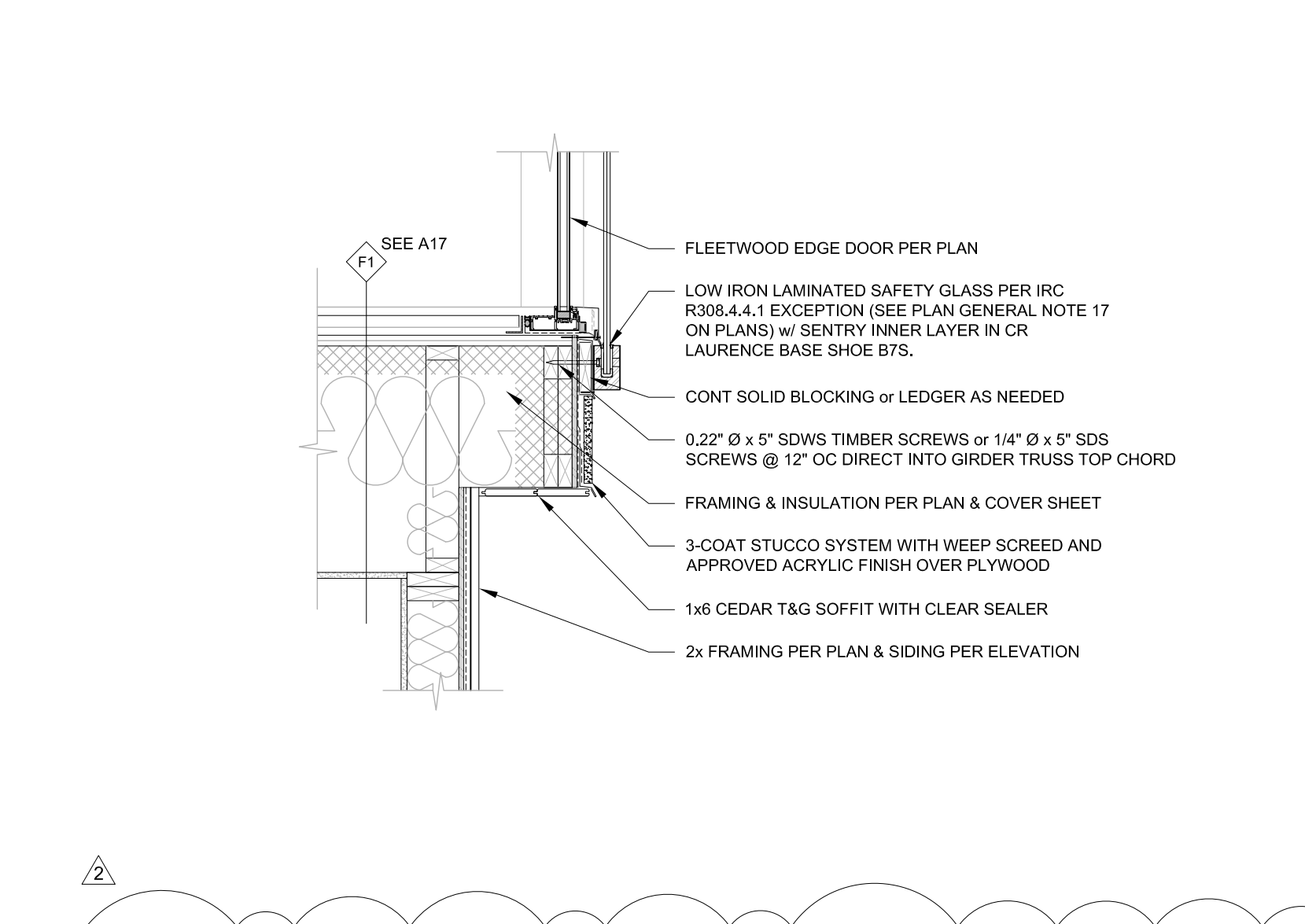
**STAIR PLAN**  
SCALE: 3/4" = 1'-0"



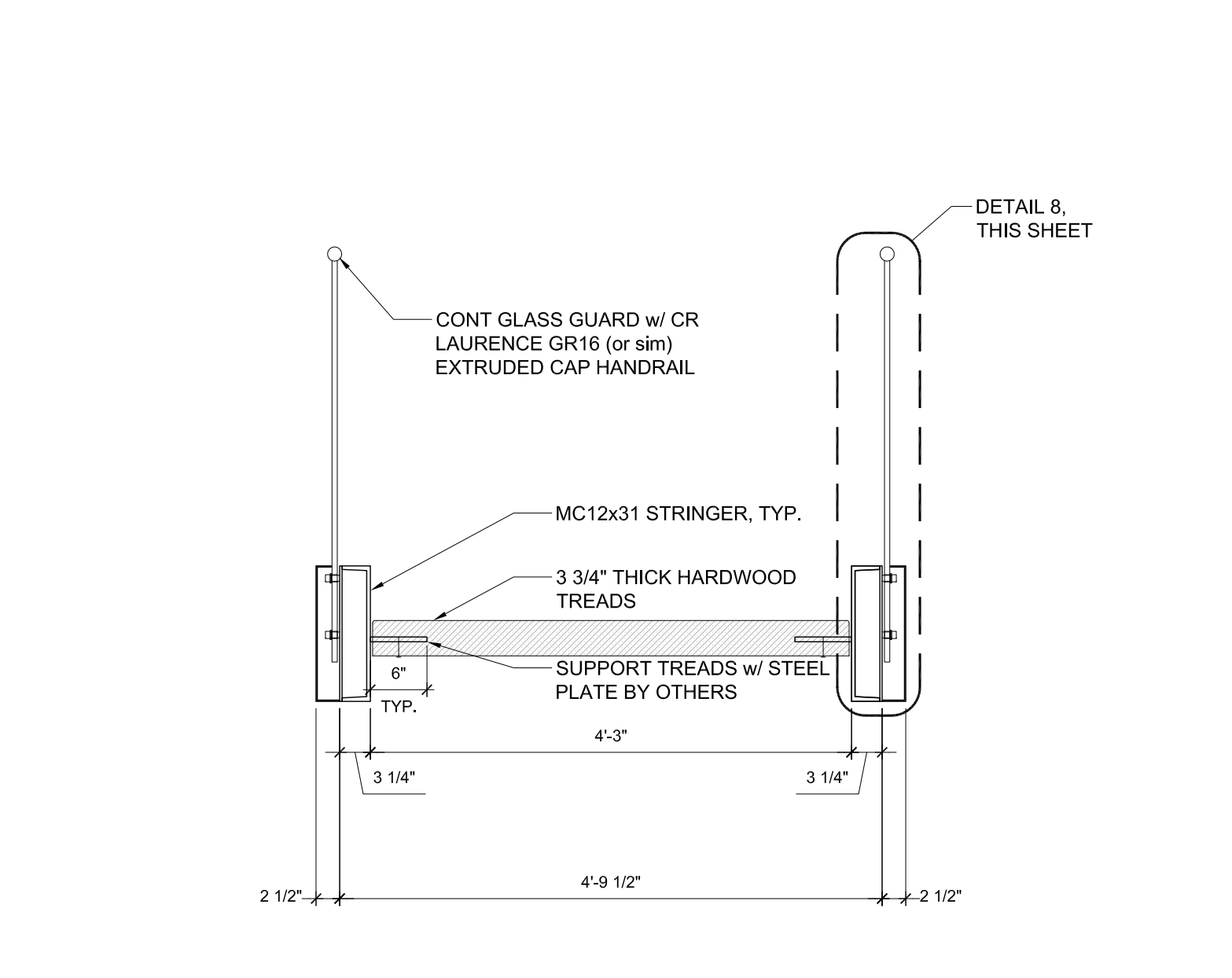
**STRINGER & BRIDGE GUARDRAIL DETAIL, TYP**  
SCALE: 3/4" = 1'-0"



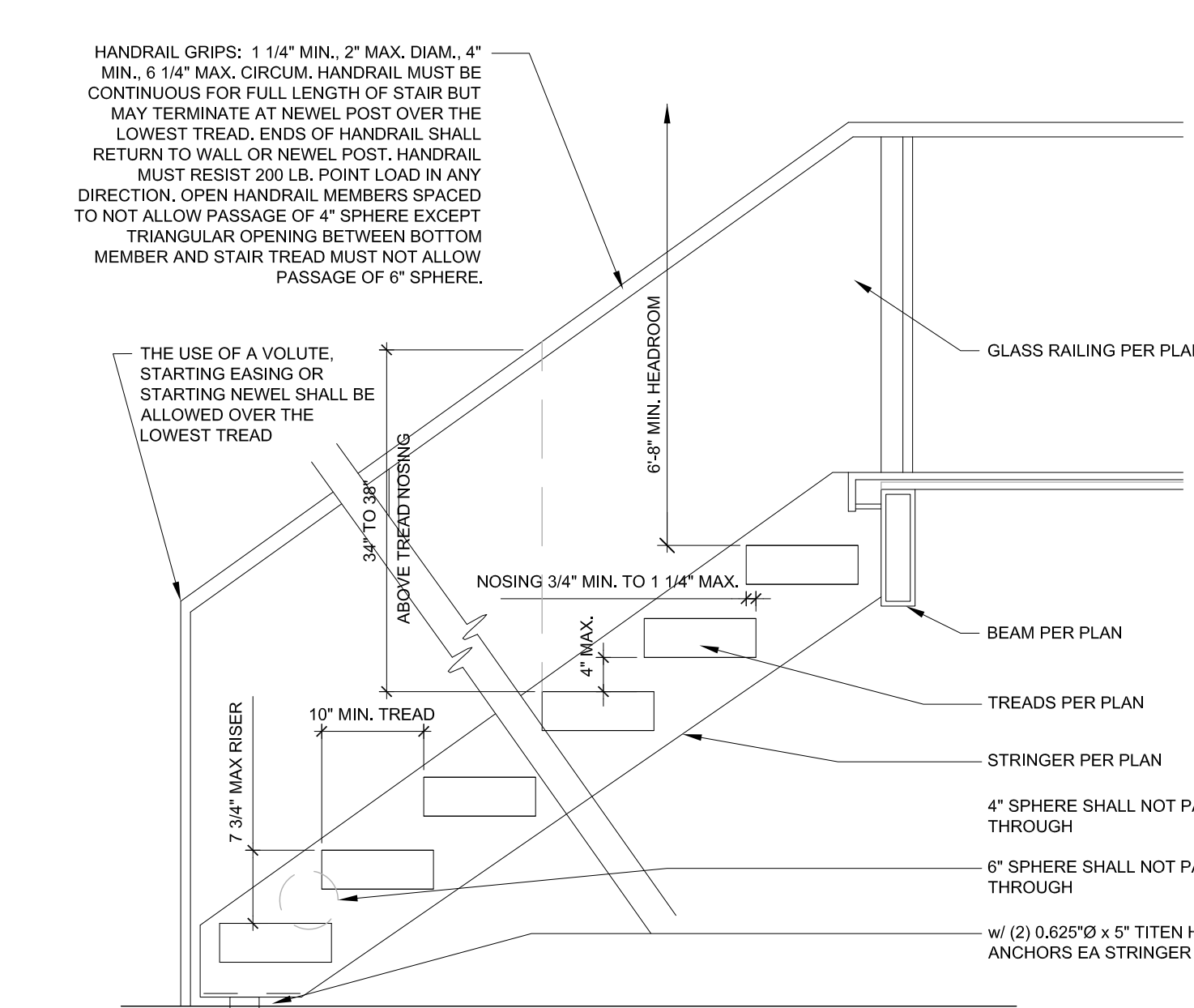
**UPPER STAIR SECTION**  
SCALE: 3/4" = 1'-0"



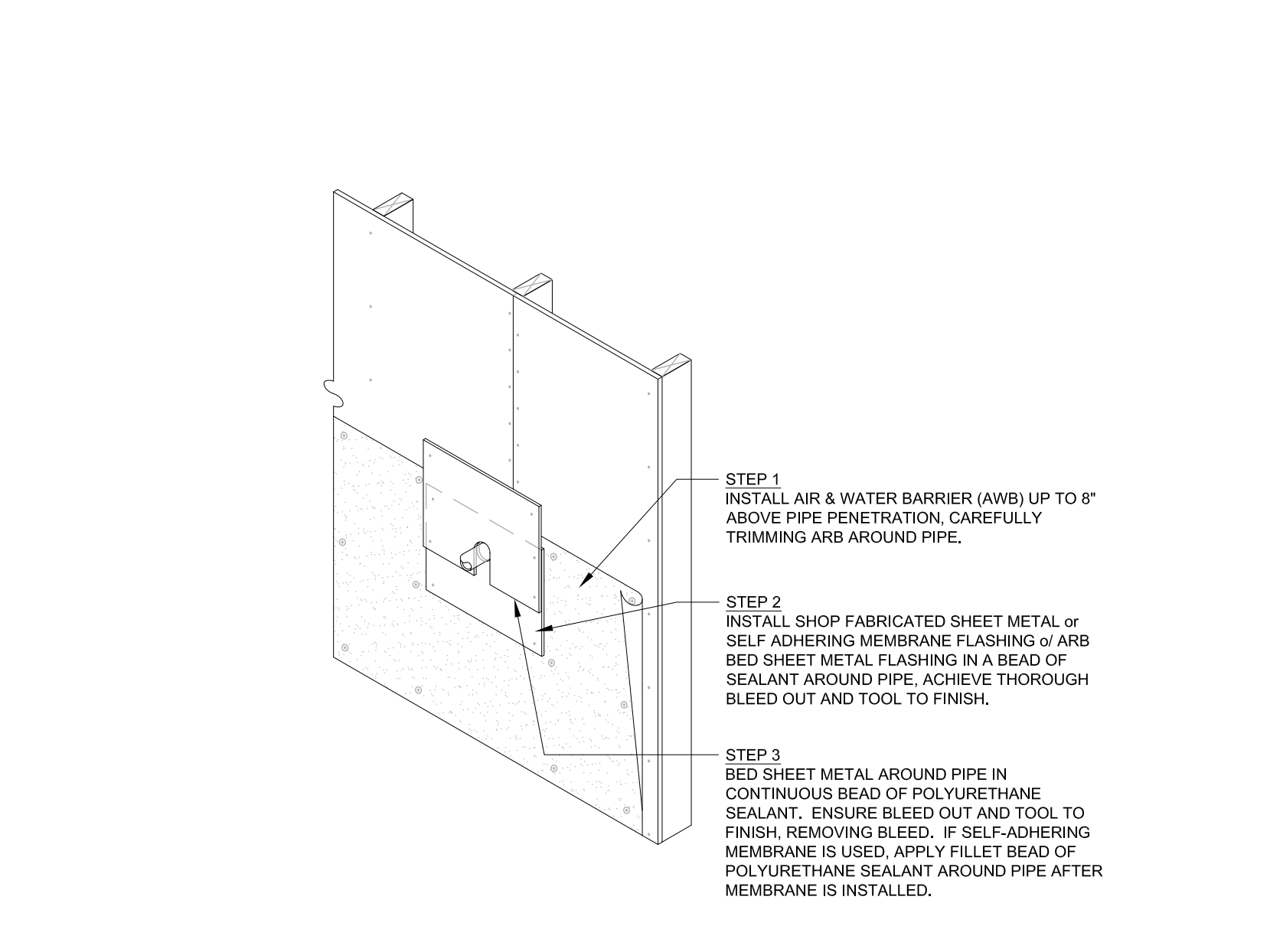
**GUARDRAIL @ BED 04**  
SCALE: 3/4" = 1'-0"



**LOWER STAIR SECTION**  
SCALE: 3/4" = 1'-0"



**TYPICAL OPEN RISER INTERIOR STAIR**  
SCALE: 3/4" = 1'-0"



**TYPICAL PIPE & OVERFLOW DRAIN OUTLET FLASHING**  
SCALE: 3/4" = 1'-0"

**FOUNDATION @ GARAGE DOOR**  
SCALE: 3/4" = 1'-0"

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Comment: Updated Plans to Structural Backcheck 01, Structural Backcheck 02, Structural Backcheck 03, Permit Corrections, Structural Backcheck, Commentary Response, Cycle 2 Structural Backcheck, Cycle 3 Structural Backcheck

Revisions: 2021.11.17, 2021.12.13, 2021.12.13, 2021.12.22, 2022.05.02, 2022.05.04, 2022.06.12, 2022.07.13, 2022.08.18

2021.10.13  
21-041  
Date: Project No:  
Job No: Drawn:  
DUR APM  
Approved:

REGISTERED ARCHITECT  
STATE OF WASHINGTON

**KONERU RESIDENCE**  
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PERMIT SET

Stair Sections & Details

**A16**



