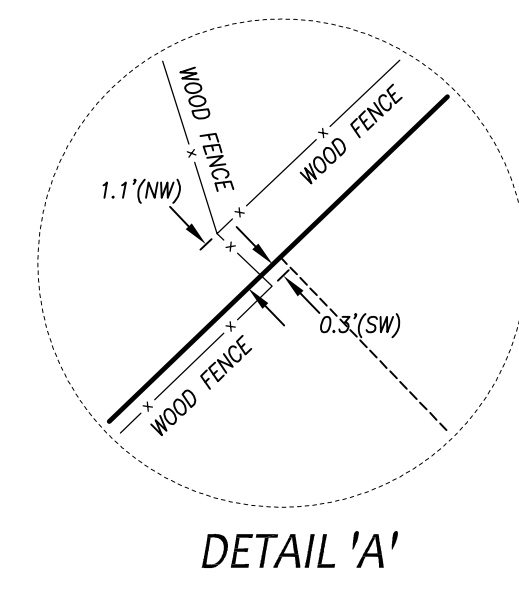


CURVE TABLE

CURVE	LENGTH	RADIUS	DELTA
C1	58.13	40.00	83°15'41"
C2	39.27	25.00	90°00'00"

LINE TABLE

LINE	LENGTH	BEARING
L1	20.36	N 69°24'41" E



EQUIPMENT & PROCEDURES

METHOD OF SURVEY:
 SURVEY PERFORMED BY FIELD TRAVERSE AND REAL TIME KINEMATIC GPS POSITIONING UTILIZING THE HXGN SMARTNET NETWORK

INSTRUMENTATION:
 LEICA TS16 ROBOTIC ELECTRONIC TOTAL STATION
 LEICA VIVA GNSS G508 RECEIVER
 ALL EQUIPMENT HAS BEEN MAINTAINED IN ADJUSTMENT TO MANUFACTURER'S SPECIFICATIONS AS REQUIRED BY WAC 331-130-100

PRECISION:
 MEETS OR EXCEEDS STATE STANDARDS SET BY WAC 332-130-080 THROUGH 332-130-110

BASIS OF BEARING:
 PER THE PLAT OF MERCER WOOD RECORDED IN VOL. 52, PGS. 32-33 OF PLATS, THE MONUMENTED CENTERLINE OF 97TH AVE S.E. AS THE BEARING OF N 20°35'19" W, AS SHOWN HEREON.

LEGAL DESCRIPTION

LOT 19, BLOCK 1, MERCER WOOD, ACCORDING TO THE PLAT THEREOF, RECORDED IN VOLUME 52 OF PLATS, PAGES 32 AND 33, IN KING COUNTY, WASHINGTON.
 SITUATE IN THE CITY OF MERCER ISLAND, COUNTY OF KING, STATE OF WASHINGTON.

VERTICAL DATUM

NAVD 88 (NAVD88 -3.67' = NGVD29)
 FOUND CASED CONC. MON. W/NAIL IN CONC. AT THE INTERSECTION OF 97TH AVE. S.E. & MERCERWOOD DR.
 WGS SURVEY DATA WAREHOUSE I.D.#47348
 ELEV. = 224.37'

SURVEY REFERENCES

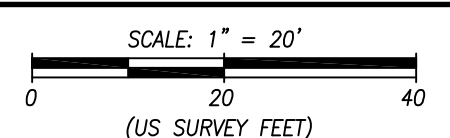
- (R1) PLAT OF MERCER WOOD - VOL. 52, PGS. 32-33
- (R2) PLAT OF MERCER WOOD DIV. 2 - VOL. 57, PG. 81
- (R3) RECORD OF SURVEY - A.F.#20170302900016

LEGEND

- SET 1/2" x 24" REBAR W/CAP "PCS 37536"
- EXISTING CORNER MONUMENT AS NOTED
- ✕ SET NAIL AND WASHER "PCS 37536"
- ✕ EXISTING NAIL AND WASHER AS NOTED
- ⊙ FOUND MONUMENT AS NOTED
- ℄ RIGHT OF WAY CENTERLINE
- CATCH BASIN
- ⊕ WATER VALVE
- ⊕ FIRE HYDRANT
- ⊕ WATER METER
- ⊕ SANITARY SEWER MANHOLE
- ⊕ SEPTIC LID
- ⊕ MAILBOX
- ⊕ UTILITY/ POLE
- GUY ANCHOR
- ⊕ CONIFEROUS TREE
- ⊕ DECIDUOUS TREE
- F FIR
- A ALDER
- P PINE
- (C) CALCULATED
- (M) MEASURED
- (D) DEED (SEE REF.)
- (P) PLAT (SEE REF.)

NOTES

- 1.) THIS SURVEY HAS BEEN PREPARED FOR THE EXCLUSIVE USE OF PARTIES WHOSE NAMES APPEAR HEREON ONLY, AND DOES NOT EXTEND TO ANY UNNAMED THIRD PARTIES WITHOUT EXPRESS RECERTIFICATION BY THE LAND SURVEYOR OF RECORD.
- 2.) BOUNDARY LINES SHOWN AND CORNERS SET REPRESENT DEED LOCATIONS; OWNERSHIP LINES MAY VARY. NO GUARANTEE OF OWNERSHIP IS EXPRESSED OR IMPLIED. THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE REPORT AND DOES NOT PURPORT TO SHOW ALL EASEMENTS, RESTRICTIONS, RESERVATIONS, AND OCCUPATION WHICH MAY ENCUMBER TITLE OR USE OF SUBJECT PROPERTY.



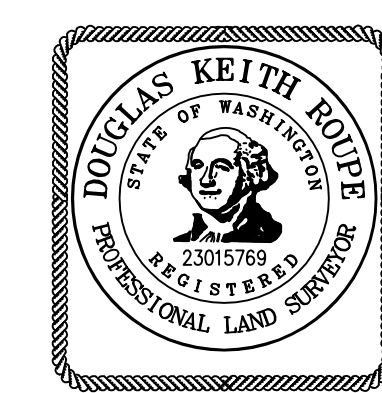
PACIFIC COAST SURVEYS INC
 SCANNING | MAPPING | SURVEY

P 425.512.7099 | F 425.357.3577
 www.PCSurveys.net
 5131 Colby Ave. Everett, WA 98208

BOUNDARY & TOPOGRAPHIC SURVEY FOR:

BO XIA & MIAO MENG

NE 1/4, NE 1/4, SEC.18, T.24N., R.05E., W.M.



DRAWING FILE #	ADDRESS OR TAXID#	DRAWN	DATE	SCALE	JOB #
243317top.dwg	4040 97TH AVE. S.E., MERCER IS.	MAH	05-15-24	1" = 20'	24-3317

PROJECT INFORMATION

ZONING DISTRICT R-8.4
 PROPERTY OWNER XIA BO+MENG MIAO
 PARCEL NUMBER 545600-0165
 LOT AREA 11,682 S.F.
 OCCUPANCY CLASSIFICATION R-3 / U
 CONSTRUCTION TYPE V-B

LEGAL DESCRIPTION

MERCER WOOD ADD
 Plat Block 1
 Plat Lot: 19

STRUCTURAL LOT COVERAGE

MAX. LOT COVERAGE FOR SLOPE: 15% 40% x 11682 = 4,672 SF
 EXIST. LOT COVERAGE 1,861 SF
 ADDED LOT COVERAGE 861 SF
 TOTAL STRUCTURAL AREA 2,722 S.F.
 STRUCTURAL LOT COVERAGE 23.3 % (OK)
 (SEE DIAGRAMS ON A1.1)

HARDSCAPE COVERAGE

MAX. HARDSCAPE AREA 49% x 11682 = 5,724 SF
 EXIST. LOT COVERAGE + HARDSCAPE 2,617 SF
 ADDED LOT COVERAGE + HARDSCAPE 484 SF
 REPLACED EXIST. HARDSCAPE
 IMPERVIOUS SURFACE AREA 3,101 SF
 IMPERVIOUS SURFACE COVERAGE 26.5% (OK)
 (SEE DIAGRAMS ON A1.1)

FLOOR AREA SUMMARY

(E) LOWER FLOOR 1,925 SF
 (E) GARAGE 376 SF
 (N) LOWER FLOOR 202 SF
 (N) GARAGE ADDITION 378 SF
 (N) UPPER FLOOR 1,502 SF
 (N) SPACE ABOVE ENTRY >16 FT HEIGHT 90 SF
 TOTAL FLOOR AREA 4,473 SF
 FAR = 40% x 11682 = 4672 SF 4,473 SF (OK)
 (SEE DIAGRAMS ON A1.1)

BUILDING HEIGHT

AVERAGE GRADE 186.3'
 MAX. STRUCTURE HT. ALLOWED (30') 216.3'
 PROPOSED STRUCTURE HT. (26.1') 212.4'
 (SEE DIAGRAMS ON A1.1)

ABBREVIATIONS

BLKG	BLOCKING	HORIZ	HORIZONTAL
C	CENTER LINE	MAX	MAXIMUM
CLR	CLEAR	MFR	MANUFACTURER
CONT	CONTINUOUS	MIN	MINIMUM
CS	CASEMENT WINDOW	o'	OVER
DBL	DOUBLE	O.C.	ON CENTER
DS	DOWNSPOUT	SD	SMOKE DETECTOR
EL	ELEVATION	SG	SAFETY GLASS
EQ	EQUAL	SF	SQUARE FEET
EXIST / (E)	EXISTING	SIM	SIMILAR
FIG	FOOTING	SLD	SLIDING WINDOW
FX	FIXED WINDOW	TYP	TYPICAL
HDR	HEADER	UNO	UNLESS NOTED OTHERWISE
HWWD	HARDWOOD	w/	WITH
HGR	HANGER		

TREE TABLE

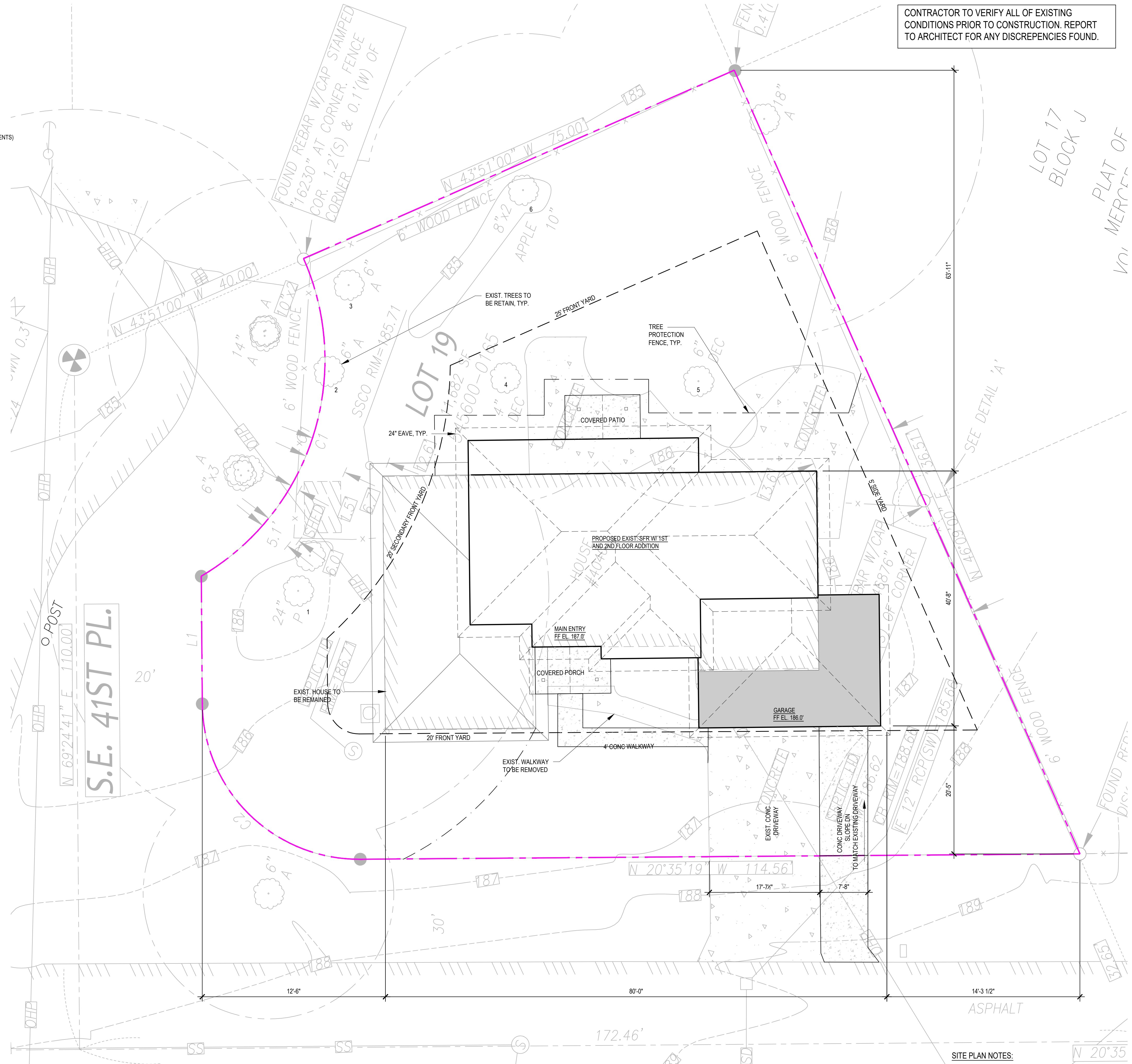
NO TREE PROPOSED TO BE REMOVED

CODE COMPLIANCE

2021 INTERNATIONAL RESIDENTIAL CODE
 2021 INTERNATIONAL MECHANICAL CODE
 2021 UNIFORM PLUMBING CODE
 2021 INTERNATIONAL FIRE CODE
 2020 NATIONAL ELECTRICAL CODE
 2021 WASHINGTON STATE ENERGY CODE

(ALL CODES ABOVE INCLUDE WASHINGTON STATEWIDE AMENDMENTS)

A NFPA 13D FIRE SPRINKLER SYSTEM IN COMPLIANCE WITH NFPA 13D AND COMI STANDARDS SHALL BE INSTALLED THROUGHOUT THE RESIDENCE. A SEPARATE FIRE PERMIT IS REQUIRED.



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

SITE PLAN NOTES:

- ALL UTILITIES SERVING THE SITE IS TO BE UNDERGROUND.
- THE ADDRESS IS TO BE PLACED IN A POSITION THAT IS PLAINLY LEGIBLE AND VISIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY.

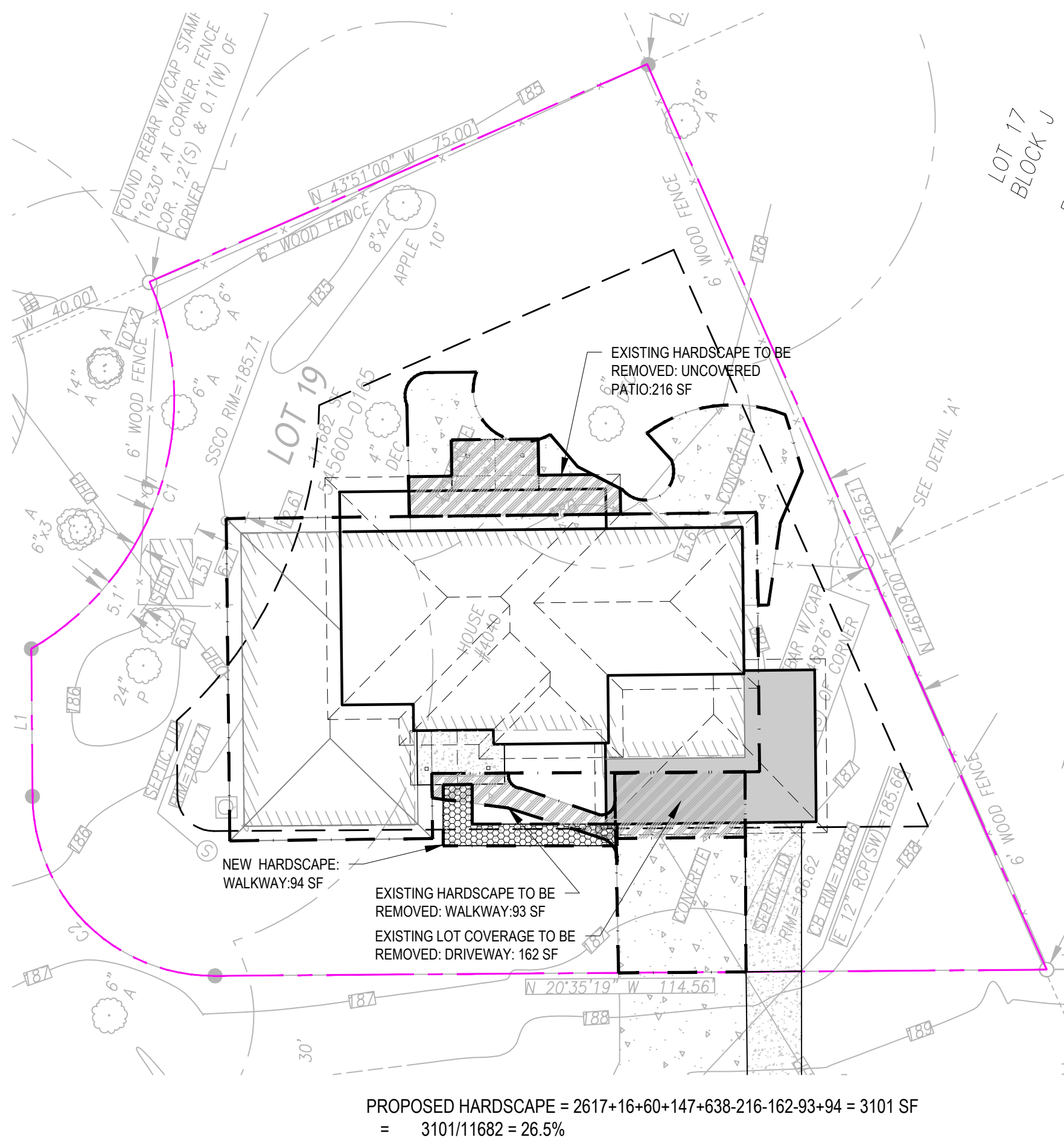
4040 ADDITION
 4040 97TH AVE SE
 MERCER ISLAND WA 98040

MJZ DESIGN
 425.922.5926
 mjz.design.wa@gmail.com

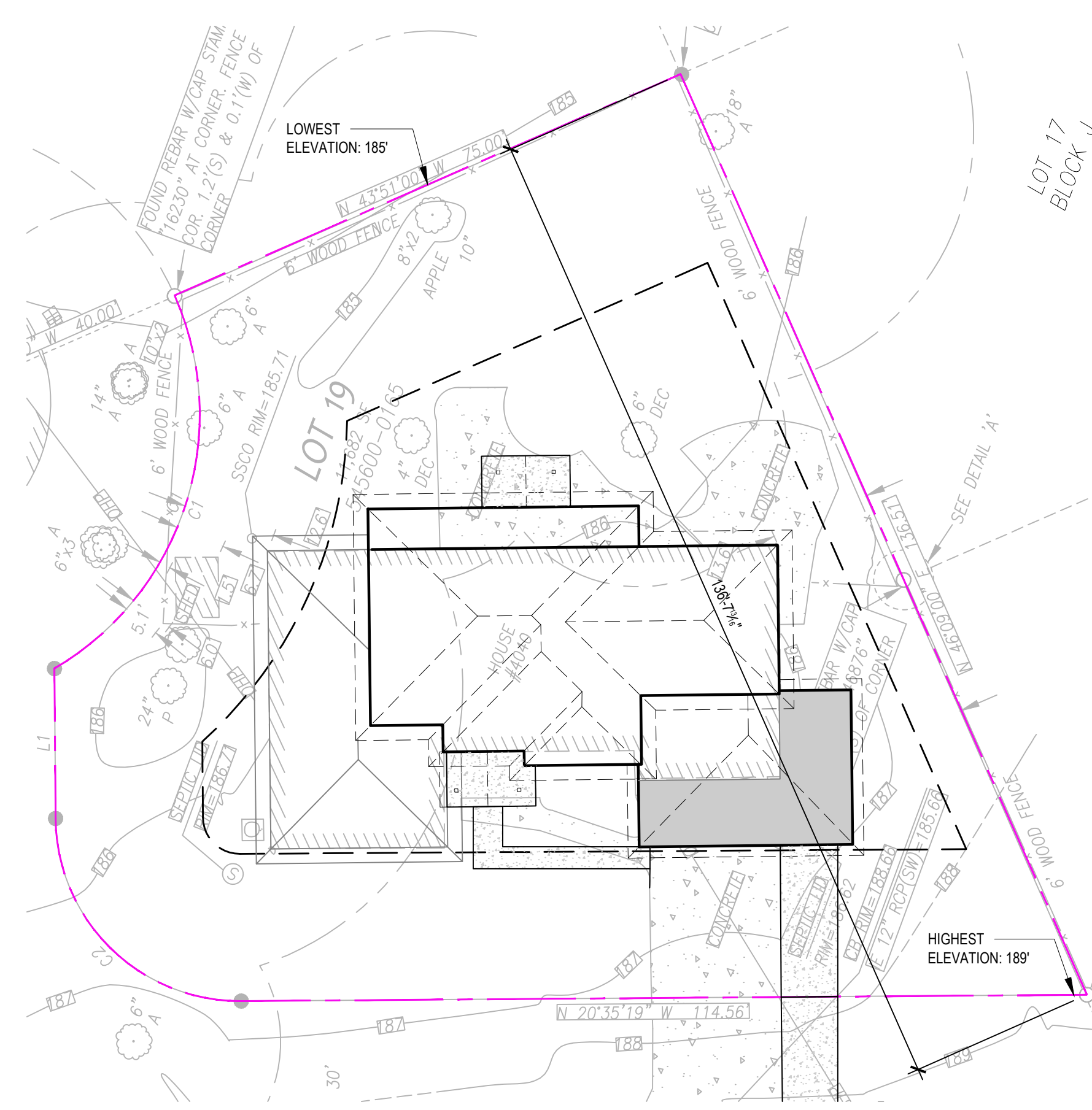
NO.	DATE	DESCRIPTION OF REVISIONS
	06/10/2024	PERMIT SET

SHEET NUMBER

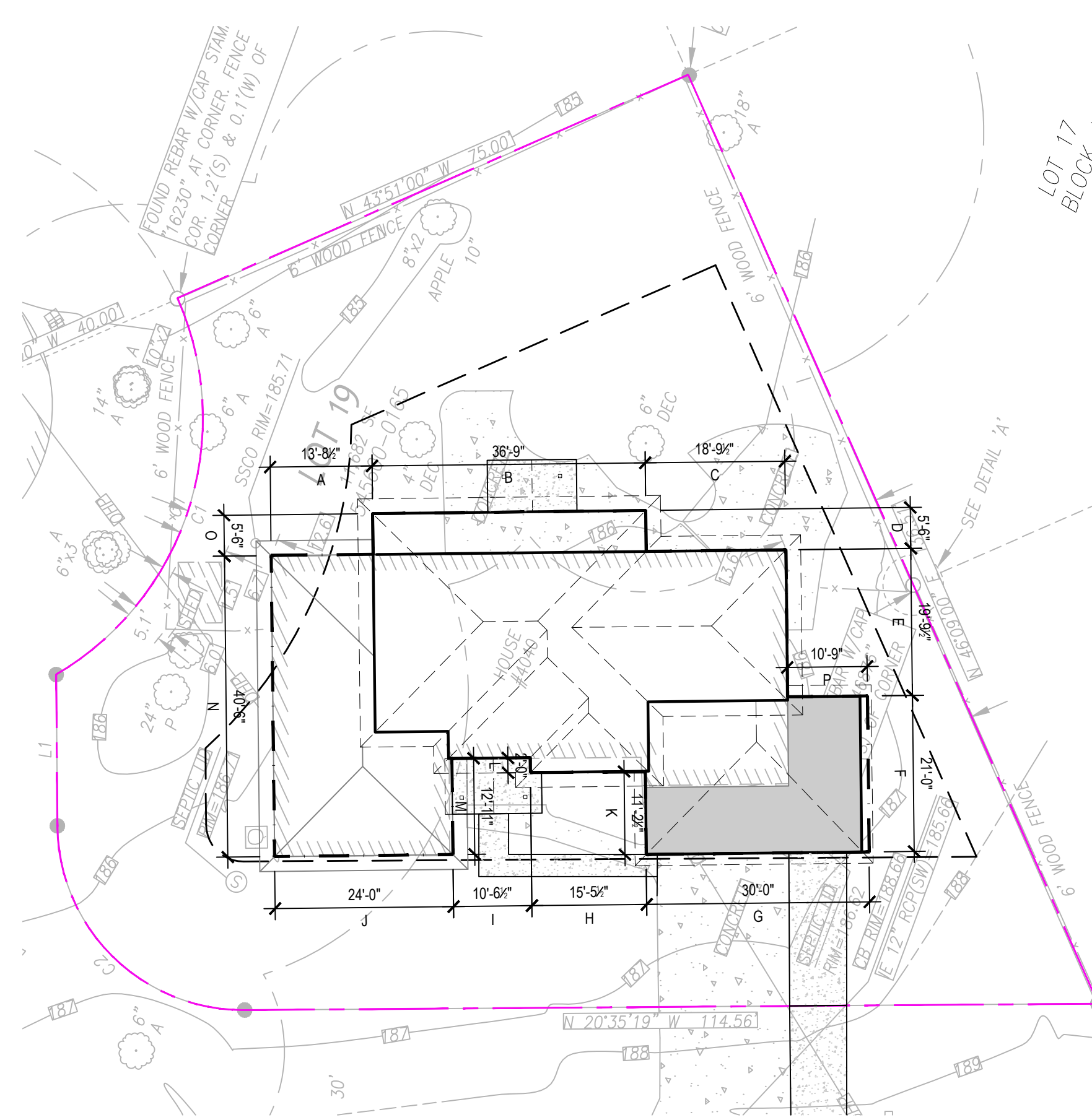
A1.0



PROPOSED HARDSCAPE = 2617+16+60+147+638-216-162-93+94 = 3101 SF
 = 3101/11682 = 26.5%



LOT SLOPE = ELEVATION DIFFERENCE / HORIZONTAL DISTANCE
 = (189-185) / 135.5
 = 3%



AVERAGE GRADE = 186.3'

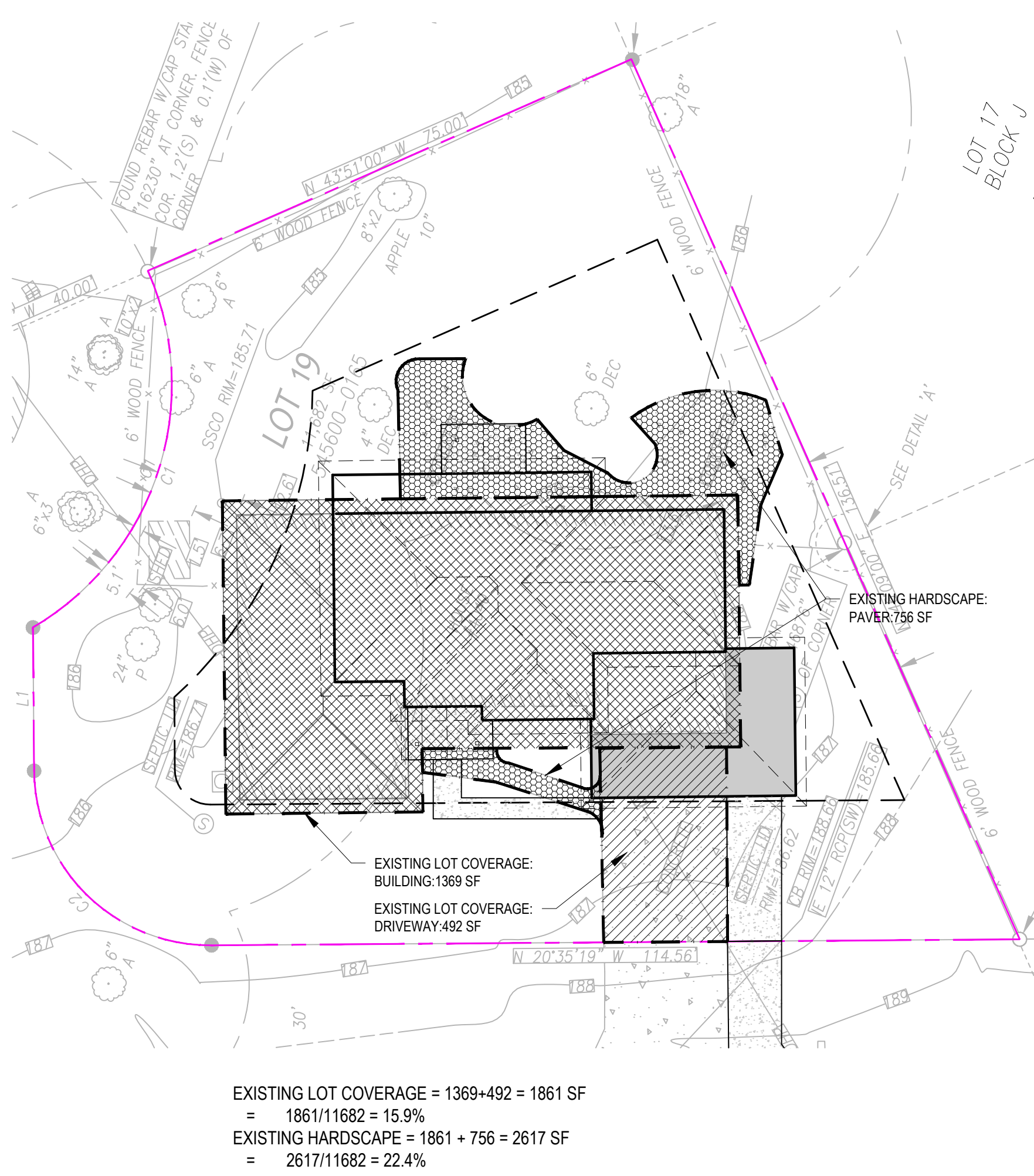
AVERAGE GRADE CALC				
MID POINT	ELEVATION	WALL SEGMENT	LENGTH	A*a=
A	185.5	a	13.7	2541.35
B	185.5	b	36.7	6807.85
C	186.2	c	18.8	3500.56
D	186	d	5.5	1023
E	186.5	e	19.8	3692.7
F	187	f	21	3927
G	186.8	g	30	5604
H	186.8	h	15.5	2895.4
I	186.3	i	10.5	1956.15
J	186.3	j	24	4471.2
K	186.8	k	11.2	2092.16
L	186.8	l	2	373.6
M	186.8	m	12.9	2409.72
N	186	n	40.5	7533
O	185.5	o	5.5	1020.25
P	186.5	p	10.7	1995.55
			278.3	51843.49
AVERAGE GRADE			=	186.3

GROSS FLOOR AREA	
UPPER LEVEL ADDITION	1502
DOUBLE HEIGHT SPACE	90
MAIN FLOOR ADDITION	202
MAIN FLOOR EXIST	1925
GARAGE ADDITION	378
GARAGE EXIST	376
TOTAL	4473
LOT AREA	11682
FAR ALLOWED	0.4
MAX ALLOWED	4672.8

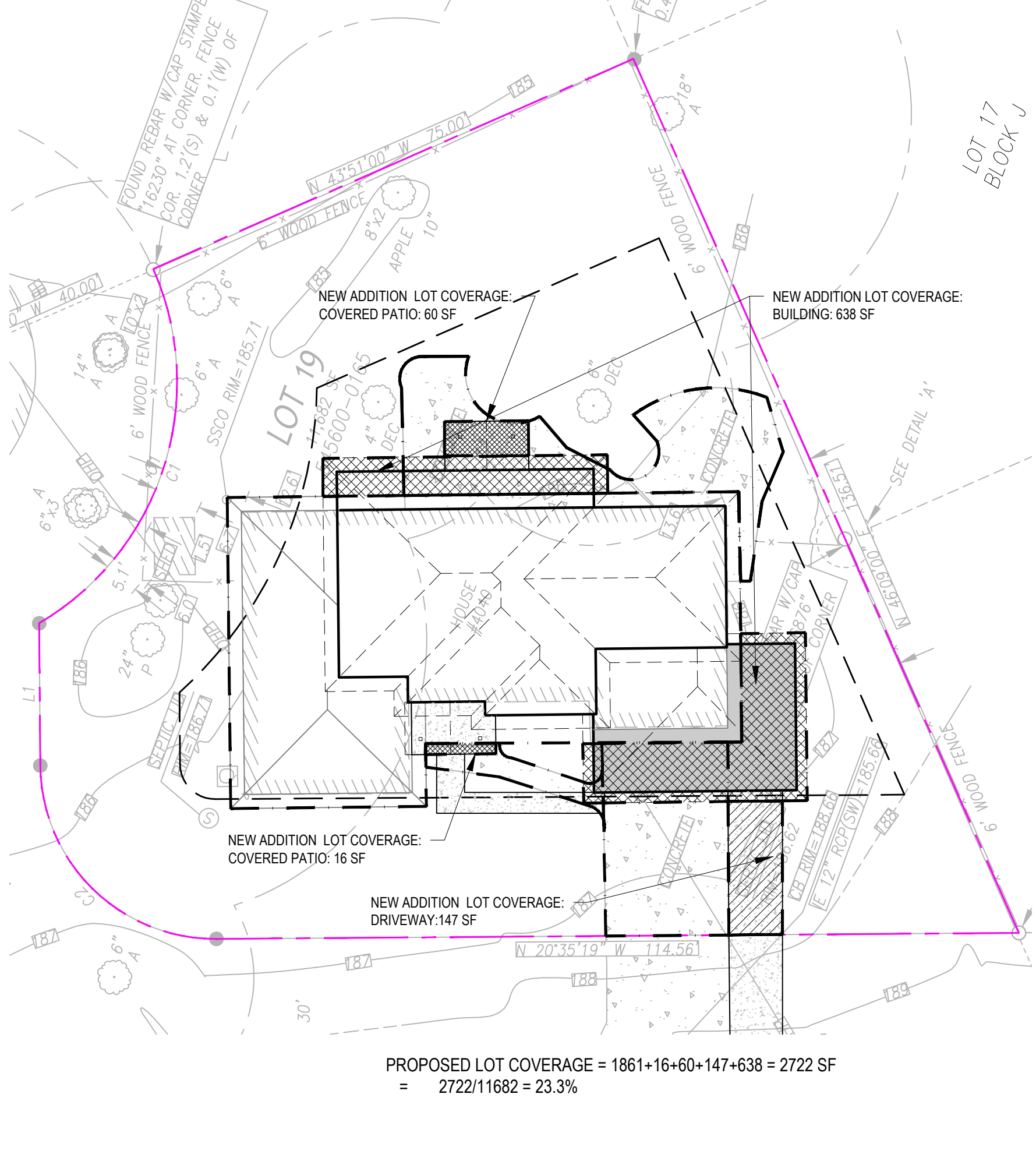
1 HARD SURFACE DIAGRAM
 1/16" = 1'-0"

1 SITE SLOPE DIAGRAM
 1/16" = 1'-0"

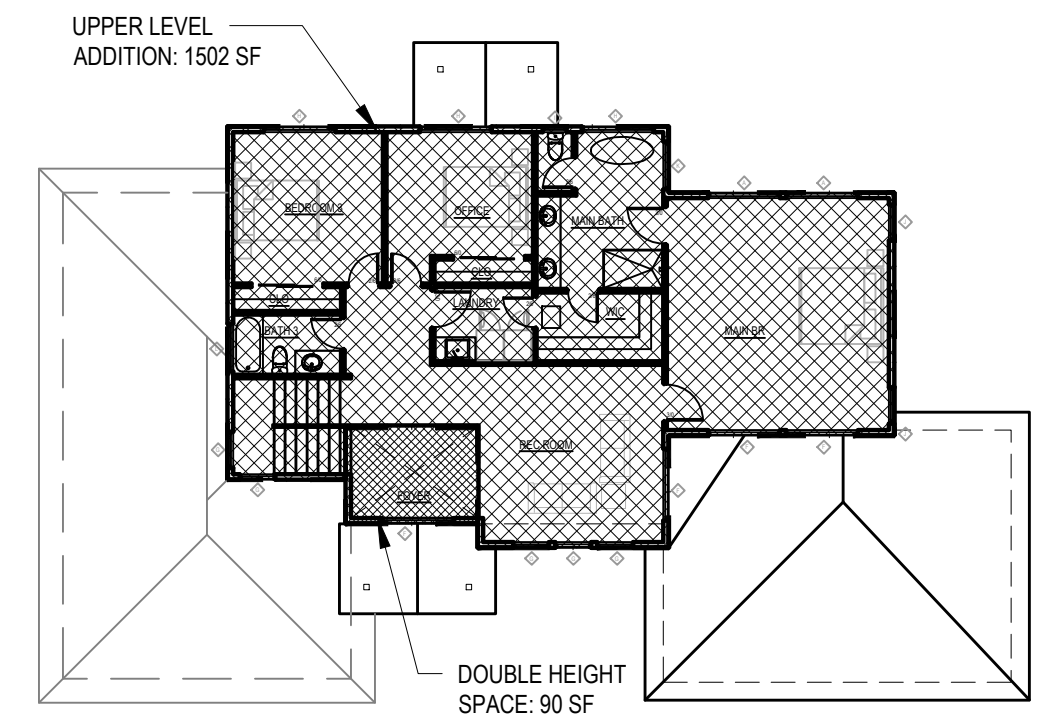
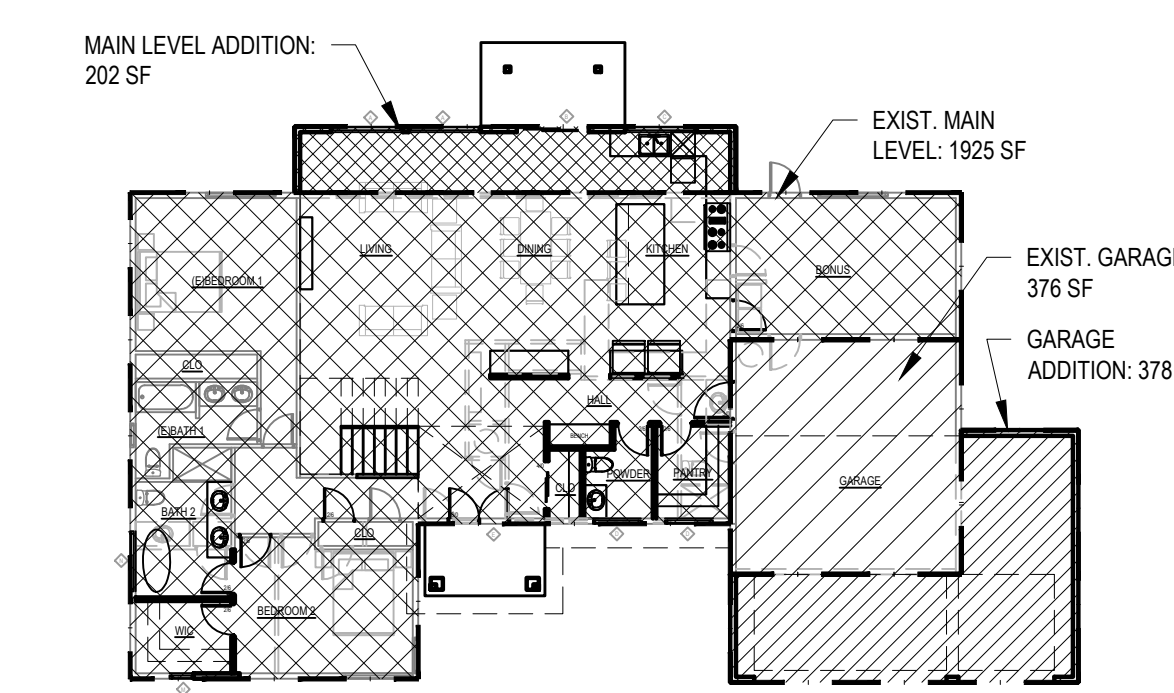
1 AVERAGE HEIGHT DIAGRAM
 1/16" = 1'-0"



EXISTING LOT COVERAGE = 1369+492 = 1861 SF
 = 1861/11682 = 15.9%
 EXISTING HARDSCAPE = 1861 + 756 = 2617 SF
 = 2617/11682 = 22.4%



PROPOSED LOT COVERAGE = 1861+16+60+147+638 = 2722 SF
 = 2722/11682 = 23.3%



1 FAR DIAGRAM
 1/16" = 1'-0"

1 PROPOSED LOT COVERAGE DIAGRAM
 1/16" = 1'-0"

1 EXIST. LOT COVERAGE DIAGRAM
 1/16" = 1'-0"

4040 ADDITION
 4040 97TH AVE SE
 MERCER ISLAND WA 98040

MJZ DESIGN
 425.922.5926
 mjz.design.wa@gmail.com

NO.	DATE	DESCRIPTION OF REVISIONS
	06/10/2024	PERMIT SET

LANDUSE DIAGRAM

SHEET NUMBER

A1.1

PLAN NOTES:

PROVIDE COMBINED SMOKE/CO DETECTOR OUTSIDE EACH SLEEPING ROOM & ON EACH LEVEL - 110V W/ BATTERY BACKUP.

PROVIDE SMOKE DETECTOR @ EACH SLEEPING ROOM - 110V W/ BATTERY BACKUP.

ALL EXTERIOR DOORS TO BE EQUIPPED WITH DEAD BOLT OR DEAD LATCH WITH MIN. 1/2" THROW. ALL WINDOWS WITHIN 10' OF GRADE TO BE CAPABLE OF LOCKING. ALL DOORS MUST BE OPERABLE FROM INSIDE WITHOUT KEY OR SPECIAL KNOWLEDGE OR EFFORT. LEVER ACTION HANDLES ALL DOORS.

ALL TILE SHOWER/BATH WALLS TO BE SHEATHED W/ FULL HEIGHT (72" MIN.) 5/8" CONCRETE BACKER BOARD. ALL KITCHEN AND BATH GWB TO BE WATER RESISTANT TO CEILING.

STAIR SHALL COMPLY WITH SRC R311.7, WITH MAXIMUM RISER 7 3/4" RISER, MIN 10" TREAD. NOSING SHALL BE BETWEEN 3/4" TO 1 1/4" DEEP.

STAIR SHALL BE MINIMUM 36" WIDE CLEAR.

HANDRAIL SHALL BE MOUNTED ON AT LEAST ONE SIDE BETWEEN 34-38" ABOVE TREAD NOSING AND SHALL PROJECT NO MORE THAN 1-1/2" INTO STAIR. GRASP DIMENSION BETWEEN 1-1/4" - 2". PROVIDE CONTINUOUS HANDRAIL OR TERMINATE AT NEWEL POSTS OR SAFETY TERMINAL.

DIMENSIONS SHOWN AT DOOR AND WINDOW OPENINGS ARE ACTUAL SIZE. CONTRACTOR TO PROVIDE ROUGH OPENING AS REQUIRED.

ALL VENTS ON FACADE TO BE LOCATED MINIMUM 3'-0" FROM OPERABLE OPENINGS.

THE MINIMUM GUARDRAIL HEIGHT FOR DECKS AND STAIRS SHALL BE 36" A.F.F. (IRC R312.1.2) DESIGNED TO RESIST A 200 LB CONCENTRATED LOAD ON THE TOP RAIL AND 50 PSF ON ALL GUARDRAIL INFILL COMPONENTS.

IRC R312.1.3 REQUIRED GUARDS SHALL NOT HAVE OPENINGS FROM THE WALKING SURFACE TO THE REQUIRED GUARD HEIGHT WHICH ALLOW PASSAGE OF A SPHERE 4 INCHES IN DIAMETER

IRC R301.5.H IF GLAZING IS USED IN HANDRAIL ASSEMBLIES IT SHALL MEET A SAFETY FACTOR OF 4.

- E DENOTES EGRESS WINDOW
- SG DENOTES SAFETY GLAZING

WHOLE HOUSE FAN VENTILATION CALCULATIONS:

WHOLE HOUSE VENTILATION SHALL BE ACCOMPLISHED USING EXHAUST SYSTEM PER M1505.4.1.2

PER IRC M1505.4.3 FOR CONTINUOUS WHOLE HOUSE FAN OPERATION:

PER TABLE M1505.4.3(1) VENTILATION AIRFLOW RATE REQUIREMENTS: UNIT CONTAINS 5+ BEDROOMS & FLOOR AREA 3,501-4,000 SF = **85 CFM**

M1505.4.3.1 VENTILATION QUALITY ADJUSTMENT SYSTEM COEFFICIENT PER TABLE M1505.4.3(2); SYSTEM TYPE IS **NOT DISTRIBUTED & NOT BALANCED** = **1.5**

ADJUSTED AIRFLOW RATE
85 x 1.5 = 127.5 CFM

FOR SYSTEMS DESIGNED TO OPERATE AT LEAST TWO HOURS IN EACH 4-HOUR SEGMENT, VENTILATION RATE FACTOR OF 2, IRC M1505.4.3.2, AND TABLE M1505.4.3(3)

TOTAL AIR FLOW RATE:
5+ BEDROOMS - 127.5 X 2 = 255 CFM REQUIRED

TOTAL REQUIRED AIRFLOW RATE = 127.5 (OR 255) CFM

MIN. LOCAL EXHAUST RATES PER TABLE M1505.4.4(1):
KITCHEN FANS: 100 CFM INTERMITTENT / 30 CFM CONTINUOUS
BATHROOM / TOILET ROOMS: 50 CFM INTERMITTENT / 20 CFM CONTINUOUS

L1 BATH1 EXHAUST FAN = 50 CFM MIN.
L1 BATH2 EXHAUST FAN = 50 CFM MIN.
L1 POWDER ROOM EXHAUST FAN = 50 CFM MIN.
L1 KITCHEN EXHAUST FAN = 100 CFM MIN.

L2 LAUNDRY EXHAUST FAN = 50 CFM MIN.
L2 BATH3 EXHAUST FAN = 50 CFM MIN.
L2 MASTER BATHROOM EXHAUST FAN = 50 CFM MIN.
L2 MASTER TOILET ROOM EXHAUST FAN = 50 CFM MIN.

TOTAL PROVIDED = 450 CFM

PER SRC (OR IRC) M1505.4 - EACH DWELLING UNIT SHALL BE EQUIPPED WITH A VENTILATION SYSTEM. THE WHOLE HOUSE MECHANICAL VENTILATION SYSTEM SHALL BE DESIGNED IN ACCORDANCE WITH M1505.4.1 THROUGH M1505.4.4.

WHOLE HOUSE VENTILATION SYSTEMS SHALL BE CONFIGURED TO OPERATE CONTINUOUSLY EXCEPT WHERE INTERMITTENT OFF CONTROLS AND SIZING ARE PROVIDED PER SECTION M1505.4.3.2.

WHOLE HOUSE VENTILATION FANS SHALL BE RATED FOR SOUND AT NO LESS THAN THE MIN. AIRFLOW RATE PER SECTION M1505.4.3.1 AT A MAXIMUM OF 1.0 SONE. REMOTE MOUNTED FANS ARE EXEMPT FROM SOUND REQUIREMENTS IF 1) MOUNTED OUTSIDE THE HABITABLE SPACES, BATHROOMS, TOILETS, AND HALLWAYS; 2) THERE MUST BE AT LEAST 4 FEET OF DUCTWORK BETWEEN THE FAN AND THE INTAKE GRILLE. (M1505.4.1.1)

DUCTS OUTSIDE THE BUILDING THERMAL ENVELOPE SHALL BE INSULATED TO A MINIMUM OF R-8 - WSEC (OR SEC) R403.3.1

DUCTS ARE TO BE LEAK TESTED IN ACCORDANCE WITH WSEC (OR SEC) R403.3.3 AND WSU RS-33. DUCT LEAKAGE TEST RESULTS SHALL BE PROVIDED TO THE BUILDING INSPECTOR AND HOMEOWNER PRIOR TO AN APPROVED FINAL INSPECTION

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 DELIVERED AIRFLOW OF THE WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM AS INSTALLED AND THE TYPE OF MECHANICAL WHOLE HOUSE VENTILATION SYSTEM USED TO COMPLY WITH SECTION M1505.4.3.1.

WSEC R401.3 PROVIDE A PERMANENT CERTIFICATE COMPLETED & LOCATED WITHIN 3FT. OF THE ELEC. DISTRIBUTION PANEL TO BE DONE BY CONTRACTOR. DO NOT OBSTRUCT VISIBILITY OF DIRECTORY OR ANY LABELS. LIST ALL R/U-VALUES OF THERMAL BUILDING ENVELOPE, INCLUDING DOORS & WINDOWS, AS WELL AS HEATING SYSTEM AND EFFICIENCIES.

WSEC R402.4 ALL UNITS SHALL BE TESTED & VERIFIED FOR AIR LEAKAGE OF NO MORE THAN 5.0 AIR CHANGES PER HOUR BY A BLOWER DOOR TEST AT 0.2 IN. W.G. A REPORT SHALL BE PROVIDED TO THE CODE OFFICIAL. TESTING TO BE DONE BY THIRD PARTY IF REQUIRED BY CODE OFFICIAL.

WSEC R404.1 A MIN OF 90% OF PERMANENT LAMPS IN FIXTURES SHALL BE HIGH-EFFICIENCY LAMPS.

WSEC R403.1 AT LEAST ONE THERMOSTAT SHALL BE PROVIDED FOR EACH SEPARATE HEATING AND COOLING SYSTEM

WSEC R403.4.2 HOT WATER PIPES ARE REQUIRED TO BE INSULATED OF R-4

SREC TABLE 402.1.1 - ALL WINDOW AND DOOR HEADERS TO BE INSULATED WITH A MINIMUM OF R-10 INSULATION

8 ENERGY CREENERGY REQUIREMENTS (PERSPECTIVE):
EDITS AS SELECTED AND LISTED BELOW:

4. PRIMARY HEATING SOURCE: 3.0 CREDIT FOR HEATING SYSTEM USING A HEAT PUMP THAT MEETS FEDERAL STANDARDS FOR THE EQUIPMENT LISTED IN TABLE C403.3.2(2) OR C403.3.2(9) OR AIR TO WATER HEAT PUMP UNITS THAT ARE CONFIGURED TO PROVIDE BOTH HEATING AND COOLING AND ARE RATED IN ACCORDANCE WITH AHRI 550/590

1.2 EFFICIENT BUILDING ENVELOPE: 1.0 CREDIT PRESCRIPTIVE COMPLIANCE IS BASED ON TABLE R402.1.3 WITH THE FOLLOWING MODIFICATIONS:
VERTICAL FENESTRATION U = 0.25
FLOOR-R-38
SLAB ON GRADE R-10 PERIMETER AND UNDER ENTIRE SLAB
BELOW GRADE SLAB R-10 PERIMETER AND UNDER ENTIRE SLAB

3.6 HIGH EFFICIENCY HVAC EQUIPMENT: 1.0 CREDIT AIR-SOURCE, CENTRALLY DUCTED HEAT PUMP WITH MINIMUM HSPF 2 OF 9.4 (HSPF OF 11.0). A CENTRALLY DUCTED AIR SOURCE COLD CLIMATE VARIABLE CAPACITY HEAT PUMP (CC VCHP) FOUND ON THE NEEP CC VCHP QUALIFIED PRODUCT LIST WITH A MINIMUM OF 9 HSPF 2 (10 HSPF) MAY BE USED TO SATISFY THIS REQUIREMENT.

5.7 EFFICIENT WATER HEATING: 2.5 CREDIT WATER HEATING SYSTEM SHALL INCLUDE ONE OF THE FOLLOWING:
ELECTRIC HEAT PUMP WATER HEATER WITH A MINIMUM UEF OF 2.9 AND UTILIZING A SPLIT SYSTEM CONFIGURATION WITH THE AIR-TO-REFRIGERANT HEAT EXCHANGER LOCATED OUTDOORS. EQUIPMENT SHALL MEET SECTION 4, REQUIREMENTS FOR ALL UNITS, OF THE NEEA STANDARD ADVANCED WATER HEATING SPECIFICATION WITH THE UEF NOTED ABOVE

7.1 APPLIANCE PACKAGE OPTION: 0.5 CREDIT ALL OF THE FOLLOWING APPLIANCES SHALL BE NEW AND INSTALLED IN THE DWELLING UNIT AND SHALL MEET THE FOLLOWING STANDARDS:

1. DISHWASHER, STANDARD - ENERGY STAR RATED, MOST EFFICIENT 2021 OR DISHWASHER, COMPACT - ENERGY STAR RATED (VERSION 6.0)
2. REFRIGERATOR (IF PROVIDED) - ENERGY STAR RATED (VERSION 5.1)
3. WASHING MACHINE (RESIDENTIAL) - ENERGY STAR RATED (VERSION 8.1)
4. DRYER - ENERGY STAR RATED, MOST EFFICIENT 2022

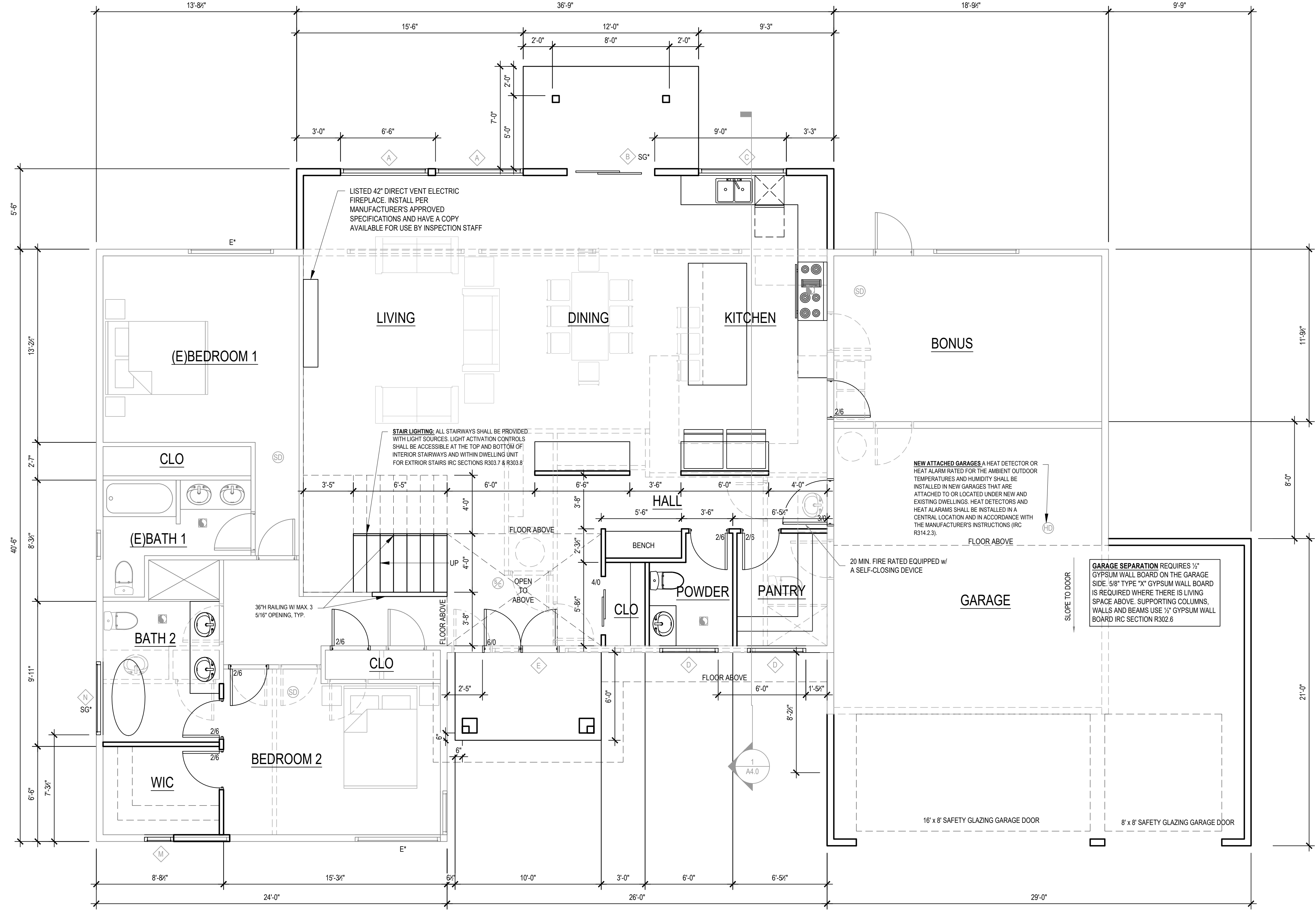
WHOLE HOUSE VENTILATION SYSTEM CONTROLS:
THE WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM SHALL BE PROVIDED WITH CONTROLS THAT ENABLE MANUAL OVERRIDE. CONTROLS SHALL INCLUDE TEXT OR A SYMBOL INDICATING THEIR FUNCTION. IRC M1505.4.2

FIREBLOCKING SHALL BE PROVIDED IN WOOD-FRAME CONSTRUCTION IN THE FOLLOWING LOCATIONS:

1. IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES AND PARALLEL ROWS OF STUDS OR STAGGERED STUDS, AS FOLLOWS:
1.1. VERTICALLY AT THE CEILING AND FLOOR LEVELS.
1.2. HORIZONTALLY AT INTERVALS NOT EXCEEDING 10 FEET (3048 MM).
2. AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILINGS AND COVE CEILINGS.
3. IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN. ENCLOSED SPACES UNDER STAIRS SHALL COMPLY WITH SECTION R302.7.
4. AT OPENINGS AROUND VENTS, PIPES, DUCTS, CABLES AND WIRES AT CEILING AND FLOOR LEVEL, WITH AN APPROVED MATERIAL TO RESIST THE FREE PASSAGE OF FLAME AND PRODUCTS OF COMBUSTION. THE MATERIAL FILLING THIS ANNULAR SPACE SHALL NOT BE REQUIRED TO MEET THE ASTM E 136 REQUIREMENTS.

SYMBOL

- EXHAUST VENT
- SMOKE DETECTOR
- SMOKE/CO1 ALARM
- NEW WALL
- EXIST WALL
- DEMO WALL



1 MAIN FLOOR PLAN
1/4" = 1'-0"

4040 ADDITION
4040 97TH AVE SE
MERCER ISLAND WA 98040

MJZ DESIGN
425.922.5926
mjz.design.wa@gmail.com

NO.	DATE	DESCRIPTION OF REVISIONS
06/10/2024		PERMIT SET

MAIN FLOOR PLAN

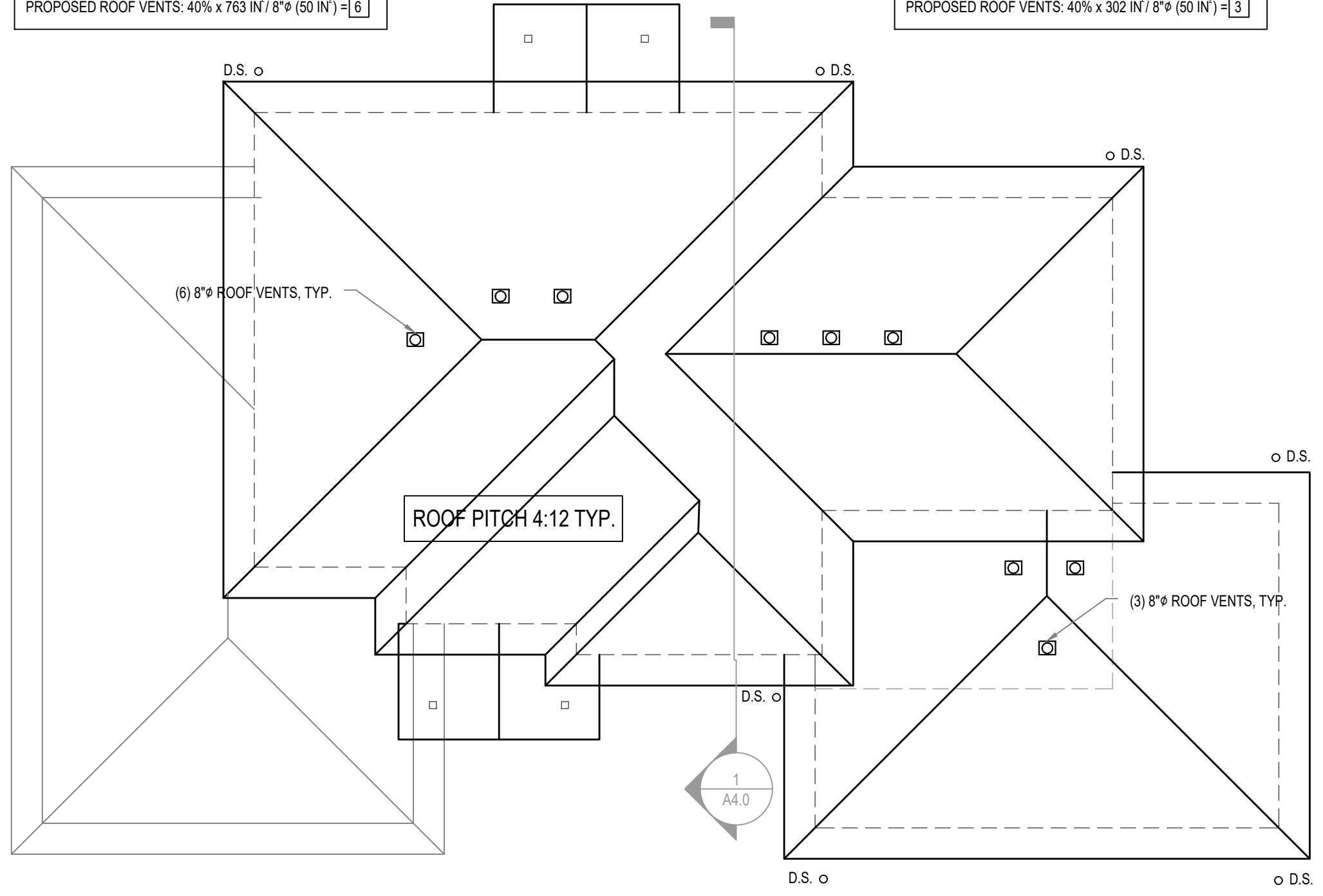
ROOF VENTILATION
 ATTIC AREA = 1592 S.F.
 REQUIRED VENTILATION = 1592 / 300 = 5.30 S.F. (763 IN²)
 PROPOSED EA VE VENT ((3) #1-3/4" HOLES ON EA. EA VE BLOCKING); 3.6 IN²/L.F. x 181" = 652 IN² (SEE SHEET A5 FOR EA VE BLOCKING)
 PROPOSED ROOF VENTS: 40% x 783 IN² / 8" = 60 IN² = [6]

LOWER ROOF VENTILATION
 ATTIC AREA = 630 S.F.
 REQUIRED VENTILATION = 630 / 300 = 2.10 S.F. (302 IN²)
 PROPOSED EA VE VENT ((3) #1-3/4" HOLES ON EA. EA VE BLOCKING); 3.6 IN²/L.F. x 73" = 263 IN² (SEE SHEET A5 FOR EA VE BLOCKING)
 PROPOSED ROOF VENTS: 40% x 302 IN² / 8" = 50 IN² = [3]

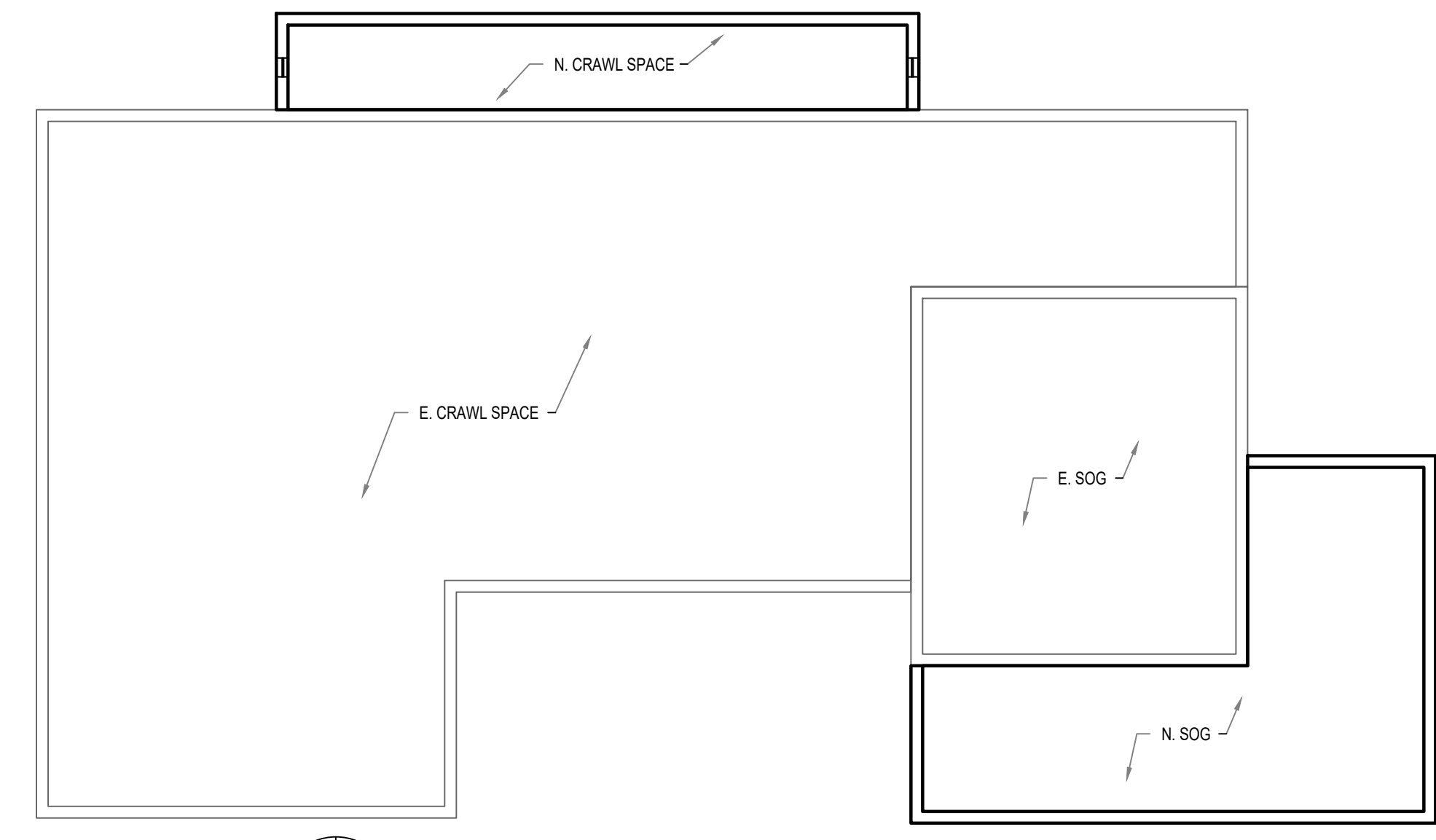
CRAWL SPACE VENTILATION
 TYPICAL SCREENED 14" x 8" C.S. VENT - MIN. W/ .58 SQ. FT. OF NET FREE AREA EACH
 CRAWL SPACE = 202 S.F.
 --> 202 / 150 = 1.34
 --> 1.34 / 0.58 = 2 VENTS REQUIRED
 NOTE: LOCATE VENTS BETWEEN JOISTS AND AVOID CONFLICT W/ HOLDOWNS

SYMBOL

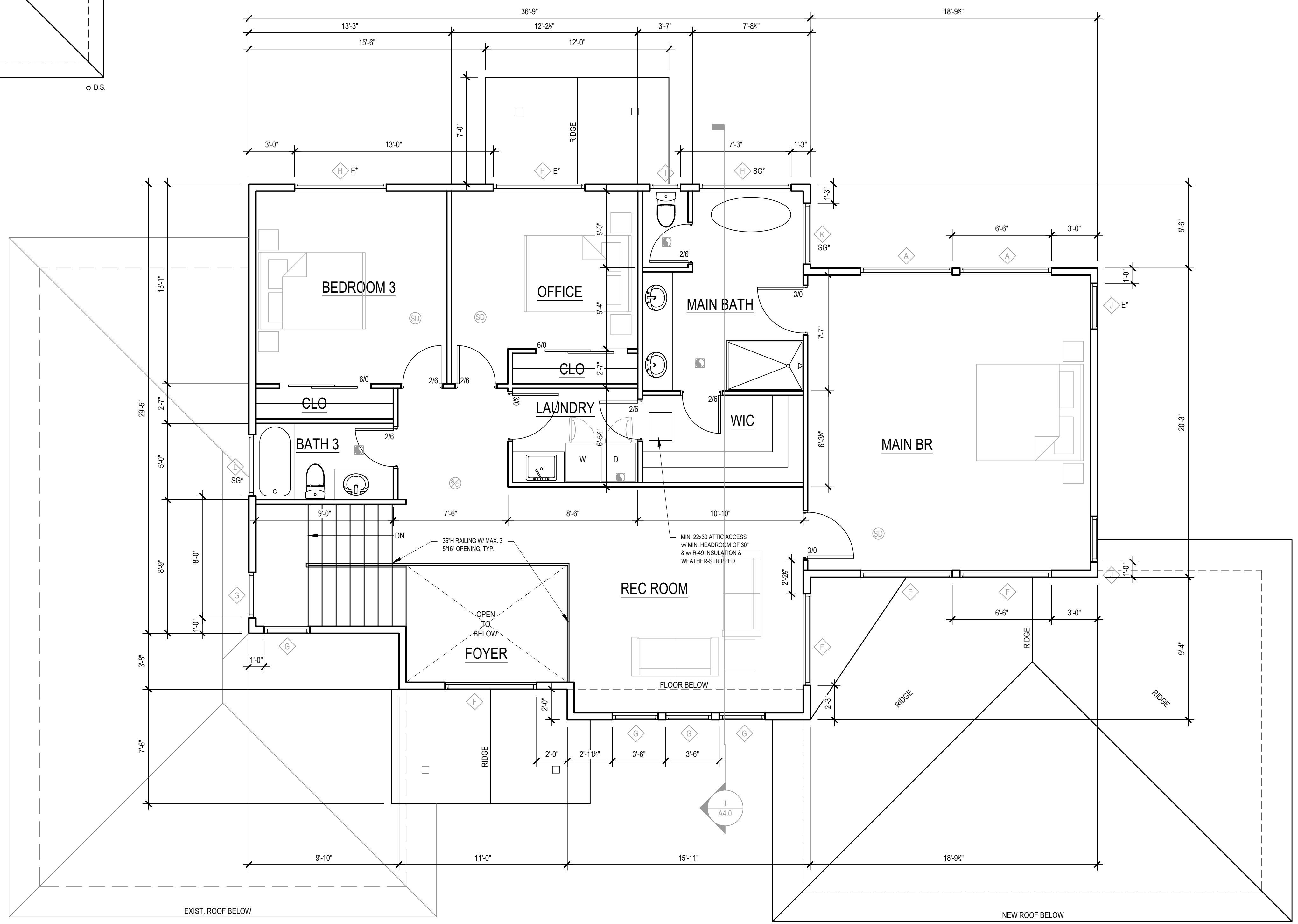
- EXHAUST VENT
- SMOKE DETECTOR
- SMOKE/CO1 ALARM
- NEW WALL
- EXIST WALL
- DEMO WALL



2 CRAWL SPACE PLAN
 1/8" = 1'-0"



2 ROOF PLAN
 1/8" = 1'-0"



1 UPPER FLOOR PLAN
 1/4" = 1'-0"

4040 ADDITION
 4040 97TH AVE SE
 MERCER ISLAND WA 98040

MJZ DESIGN
 425.922.5926
 mjz.design.wa@gmail.com

NO.	DATE	DESCRIPTION OF REVISIONS
	06/10/2024	PERMIT SET

UPPER FLOOR PLAN
 ROOF PLAN
 CRAWL SPACE PLAN

SHEET NUMBER

A2.1

- EXTERIOR FINISH SCHEDULE
1. FACSA
 2. COMPOSITE ROOFING
 3. FIBER CEMENT SIDING
 4. VINYL WINDOW
 5. STONE VENEER
 6. CONCRETE
 7. EXISTING STRUCTURE



1 WEST ELEVATION
1/4" = 1'-0"



2 EAST ELEVATION
1/4" = 1'-0"

4040 ADDITION
4040 97TH AVE SE
MERCER ISLAND WA 98040

MJZ
DESIGN

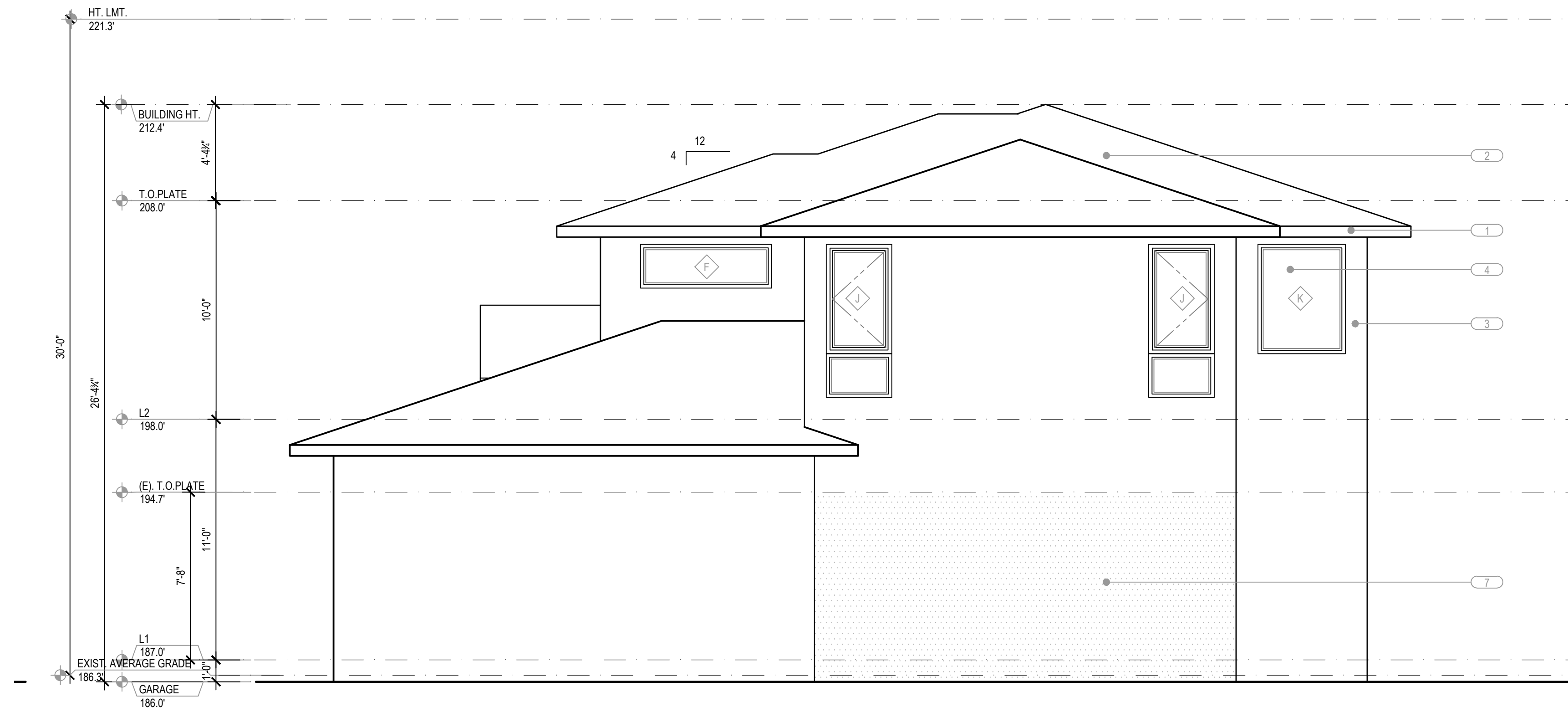
425.922.5926
mjz.design.wa@gmail.com

NO.	DATE	DESCRIPTION OF REVISIONS
	05/10/2024	PERMIT SET

ELEVATIONS

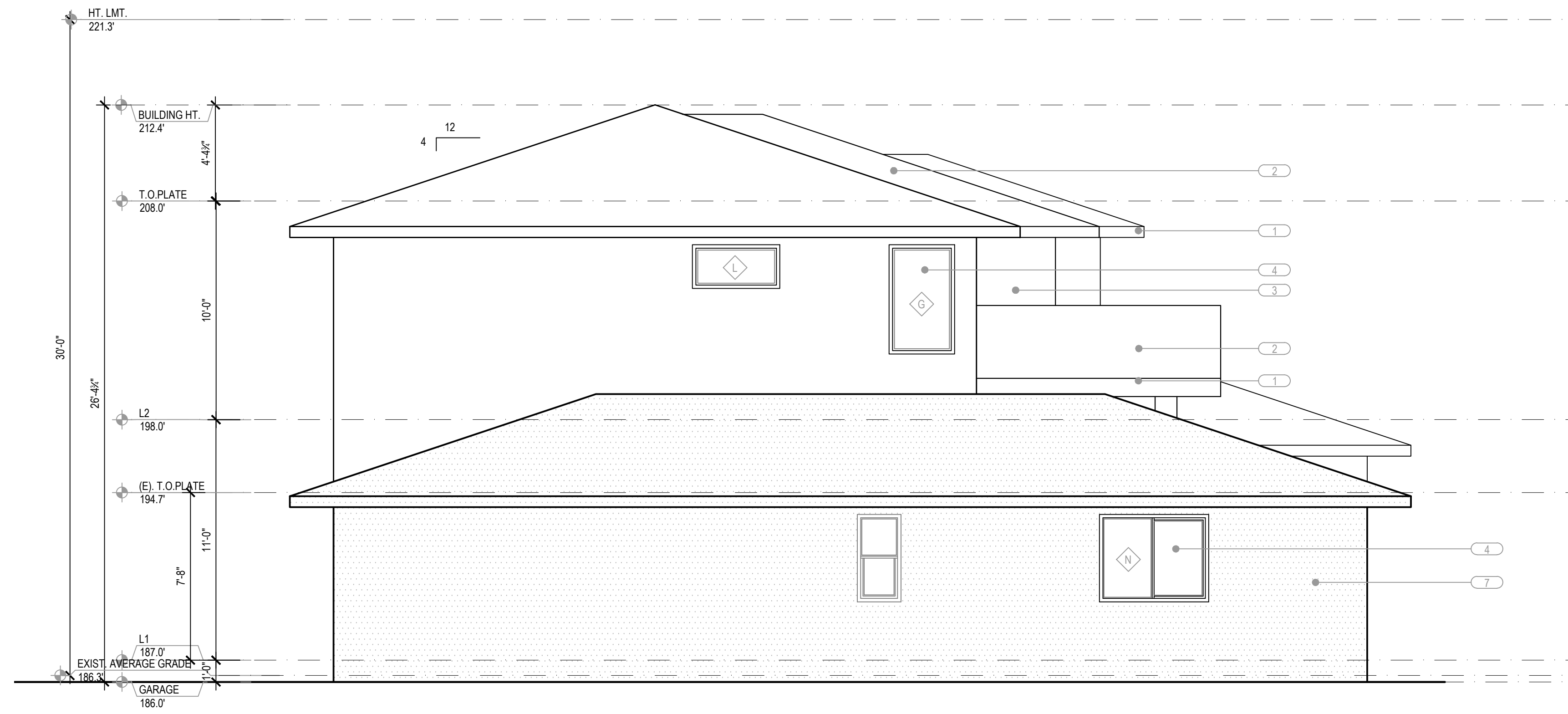
SHEET NUMBER

A3.0



- EXTERIOR FINISH SCHEDULE
- 1, FACIA
 - 2, COMPOSITE ROOFING
 - 3, FIBER CEMENT SIDING
 - 4, VINYL WINDOW
 - 5, STONE VENEER
 - 6, CONCRETE
 - 7, EXISTING STRUCTURE

1 SOUTH ELEVATION
1/4" = 1'-0"



2 NORTH ELEVATION
1/4" = 1'-0"

4040 ADDITION
4040 97TH AVE SE
MERCER ISLAND WA 98040

MJZ
DESIGN

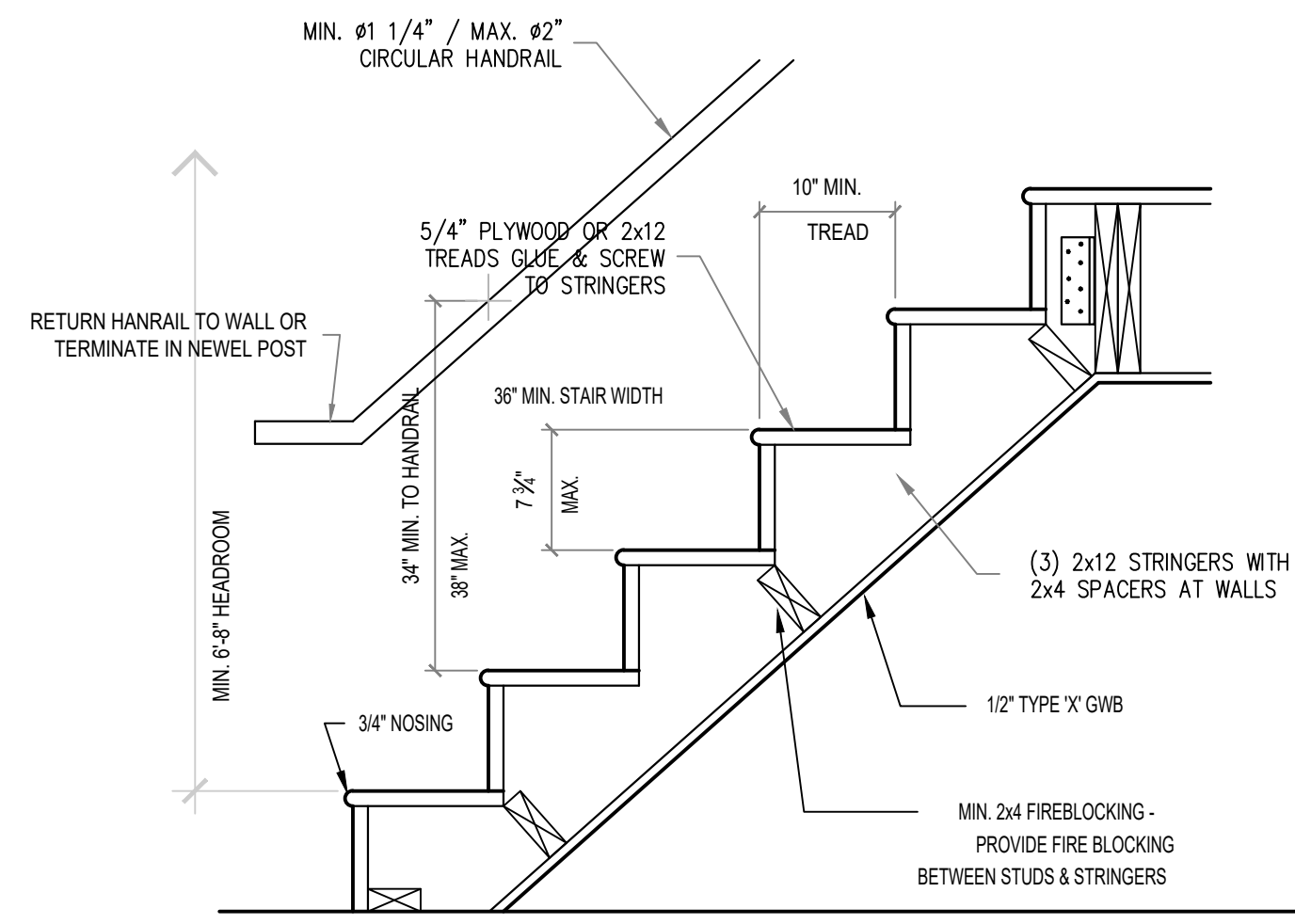
425.922.5926
mjz.design.wa@gmail.com

NO.	DATE	DESCRIPTION OF REVISIONS
1	06/10/2024	PERMIT SET

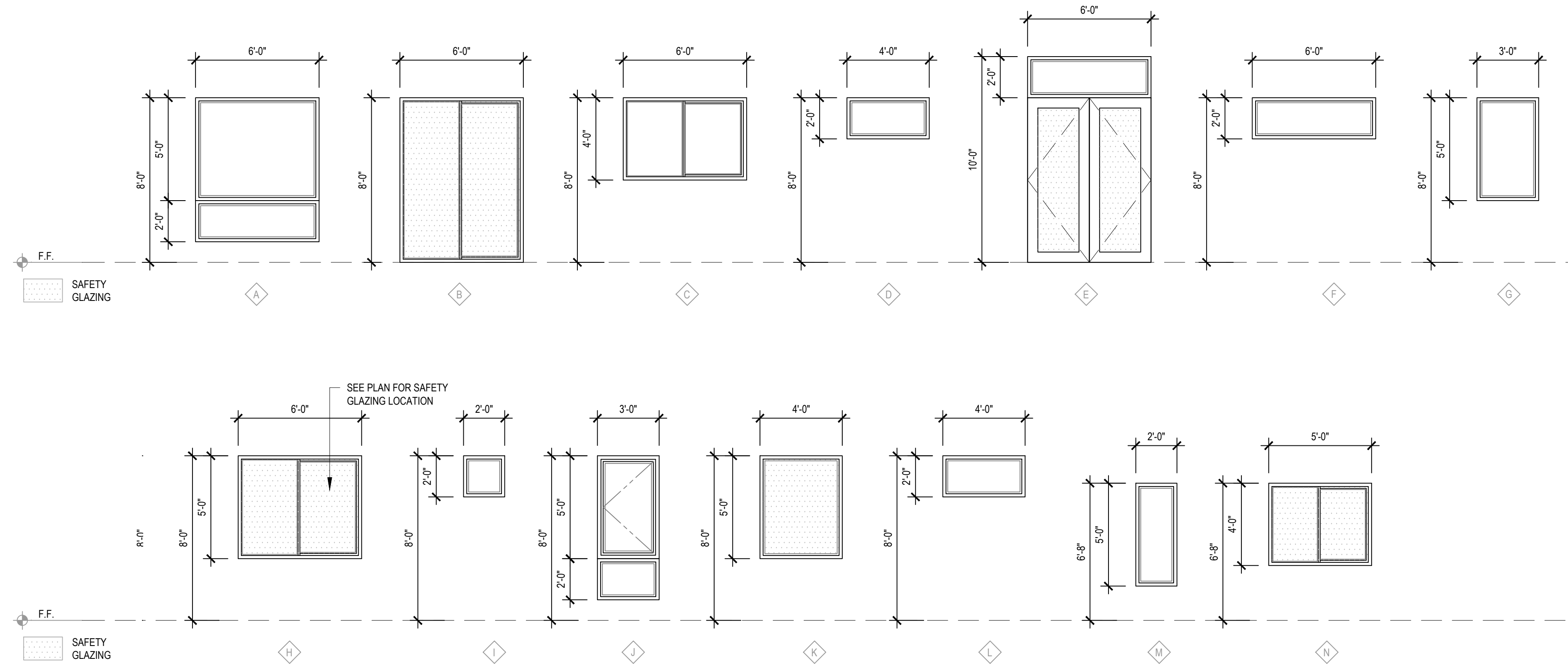
ELEVATIONS

SHEET NUMBER

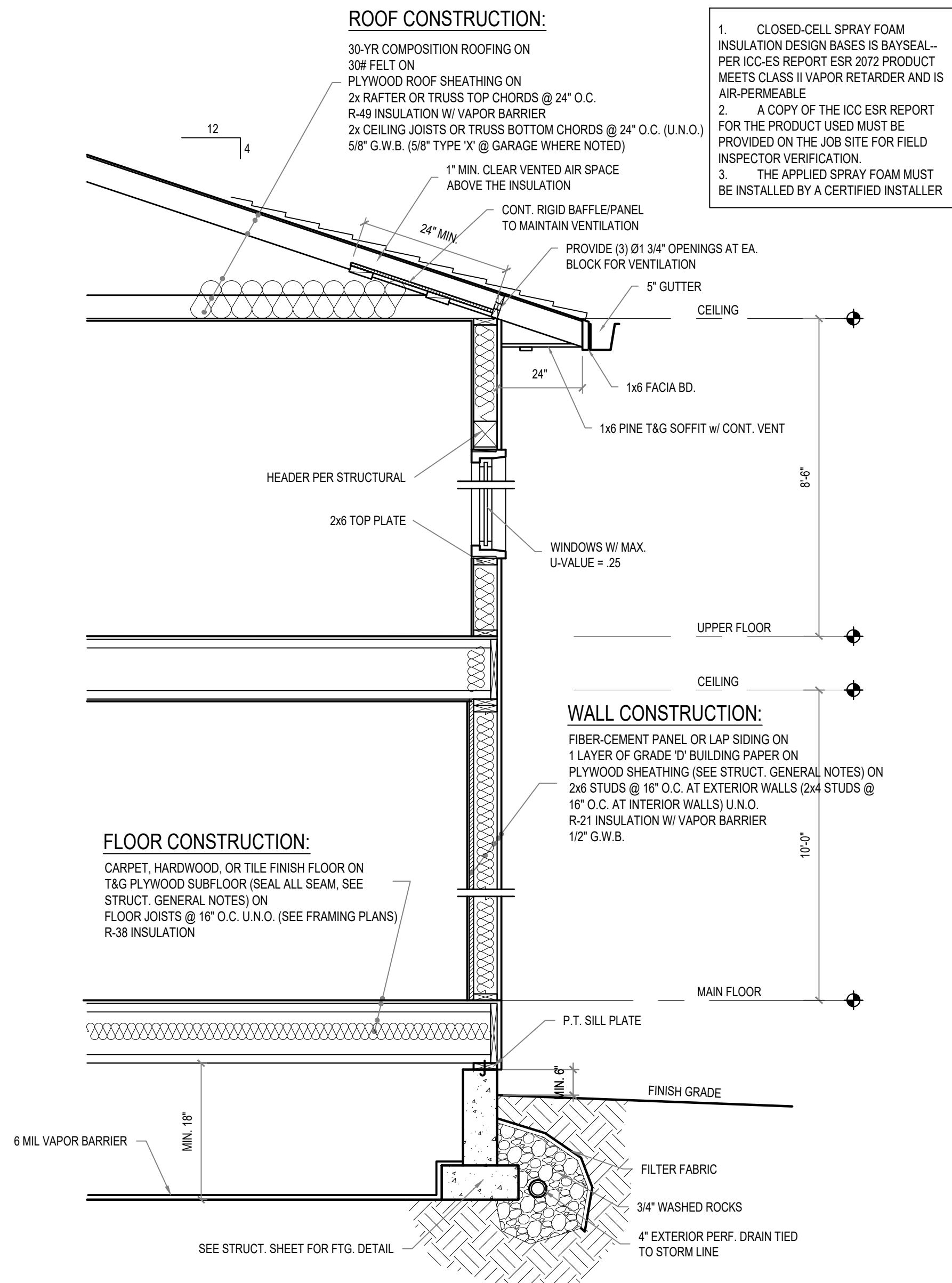
A3.1



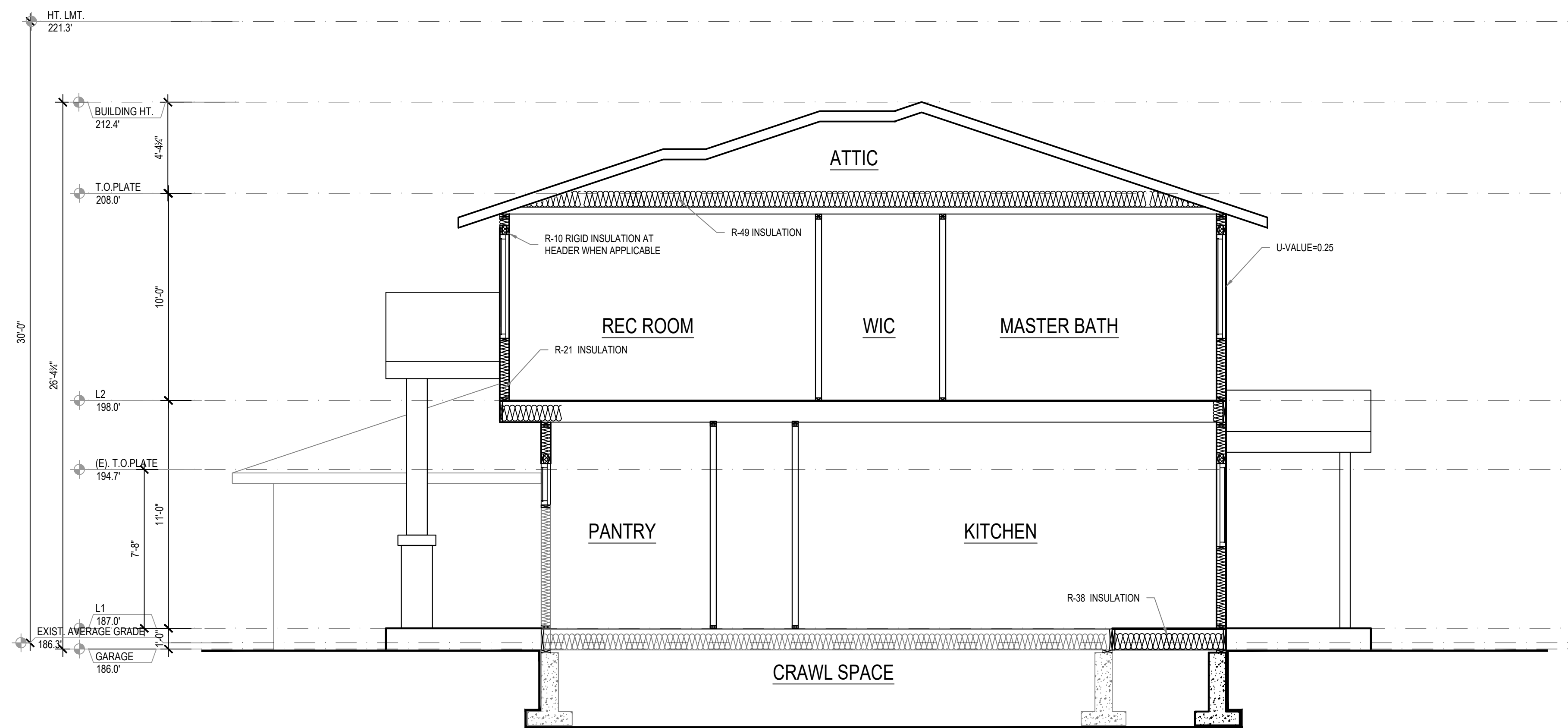
4 TYP. STAIR DETAIL
1" = 1'-0"



2 WINDOW TYPES
1/4" = 1'-0"



3 TYP. WALL SECTION
1/2" = 1'-0"



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

4040 ADDITION
4040 97TH AVE SE
MERCER ISLAND WA 98040

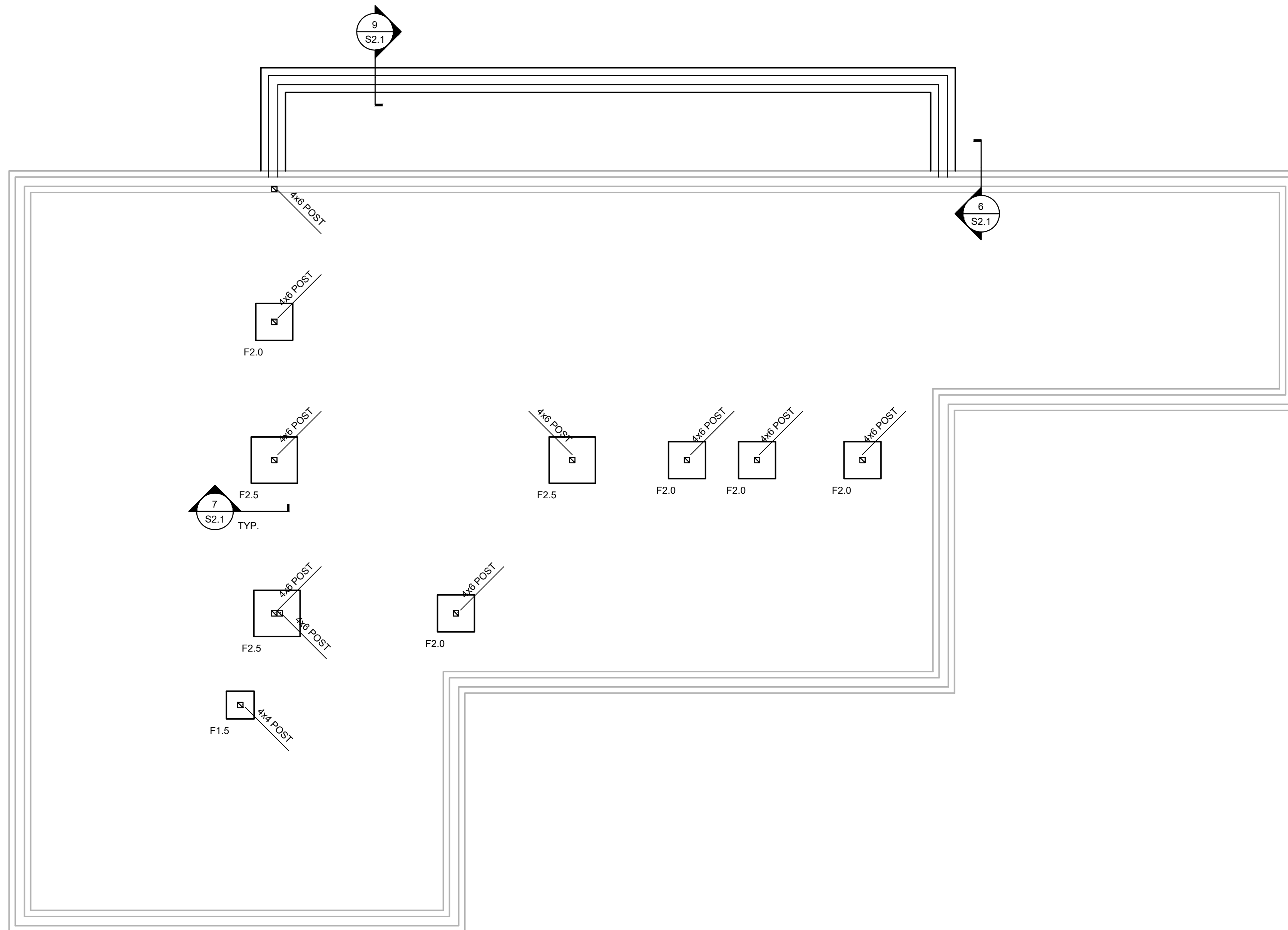
MJZ DESIGN
425.922.5926
mjz.design.wa@gmail.com

NO.	DATE	DESCRIPTION OF REVISIONS
	05/10/2024	PERMIT SET

ELEVATIONS
SECTION
DETAILS

SHEET NUMBER

A4.0



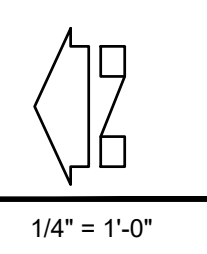
FOOTING SCHEDULE		
MARK	SIZE	REINFORCEMENT
F1.5	1'-6" x 1'-6" x 10"	3- #4 EA. WAY BOT.
F2.0	2'-0" x 2'-0" x 10"	3- #4 EA. WAY BOT.
F2.5	2'-6" x 2'-6" x 11"	4- #4 EA. WAY BOT.
F3.0	3'-0" x 3'-0" x 11"	5- #5 EA. WAY BOT.
F3.5	3'-6" x 3'-6" x 11"	6- #5 EA. WAY BOT.
F4.0	4'-0" x 4'-0" x 12"	7- #5 EA. WAY BOT.

NOTE:
 1. SEE GENERAL NOTES FOR DESIGN BEARING CAPACITY
 2. CENTER ALL FOOTING ON COLUMN OR WALL. TYP. U.N.O.
 3. AT LOCATIONS WHERE (N) FOOTINGS ARE SHOWN SHARING A COMMON BEARING AREA, CAST MONOLITHICALLY WITH INDIVIDUAL REINFORCING PER SCHEDULE AND OVERLAP AS REQUIRED.
 4. AT LOCATIONS WHERE (N) FOOTING ARE SHOWN SHARING A COMMON BEARING AREA WITH (E) FOOTING, DOWEL (N) FOOTING REINFORCEMENT INTO (E) FOOTING w/ SIMPSON SET-XP (EMBED 3 1/2" MIN.).
 5. FOOTING SCHEDULE IS PROVIDED FOR GENERAL INFORMATION. NOT ALL OF THE FOOTING SIZE IS REQUIRED, SEE FOUNDATION PLAN FOR FOOTING SIZE CALL-OUT

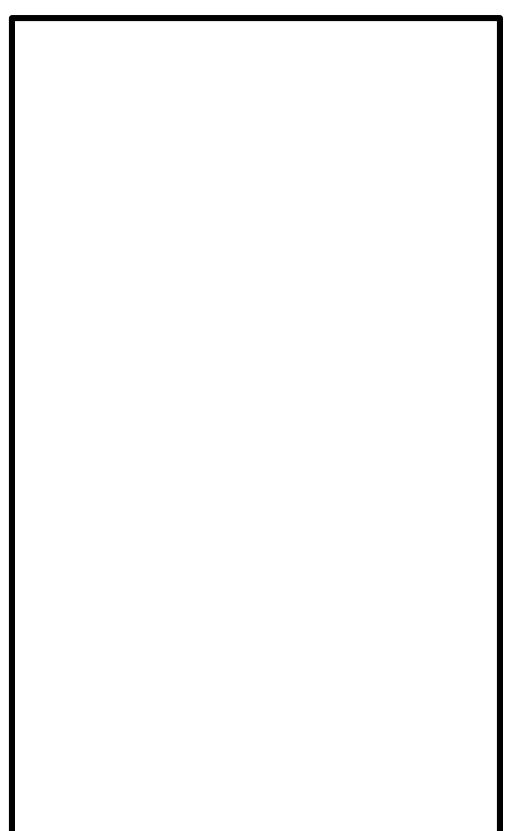
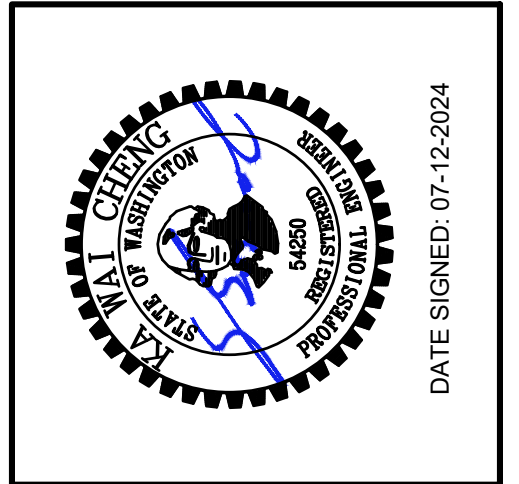
CONTRACTOR TO FIELD VERIFY ALL EXISTING FOUNDATION WALL AND FOOTING LOCATIONS ARE MATCHING WITH PLAN DRAWING. VERIFY EXISTING CRAWLSPACE FOUNDATION AND/OR SLAB-ON-GRADE CONDITION ARE MATCHING WITH PLAN DRAWING. NOTIFY E.O.R. IMMEDIATELY FOR ANY DISCREPANCY.

FOUNDATION PLAN

- DO NOT SCALE DRAWINGS.
- VERIFY ALL DIMENSIONS IN FIELD. REFER TO ARCHITECTURAL PLAN FOR WALL LAYOUT.
- FOOTINGS SHALL BE PLACED ON UNDISTURBED NATIVE SOIL OR STRUCTURAL FILL COMPACTED TO 95% MAXIMUM WET DENSITY PLACED IN MAX. 12" LIFTS.
- BOTTOM OF ALL FOOTINGS SHALL BE 18" MINIMUM BELOW LOWEST ADJACENT GRADE, U.N.O.



NO.	DRAWING SUBMITTALS / REVISIONS	DATE
	SUBMIT FOR PERMIT	07-24-2024
	SUBMIT FOR BID	
	SUBMIT FOR CONSTRUCTION	

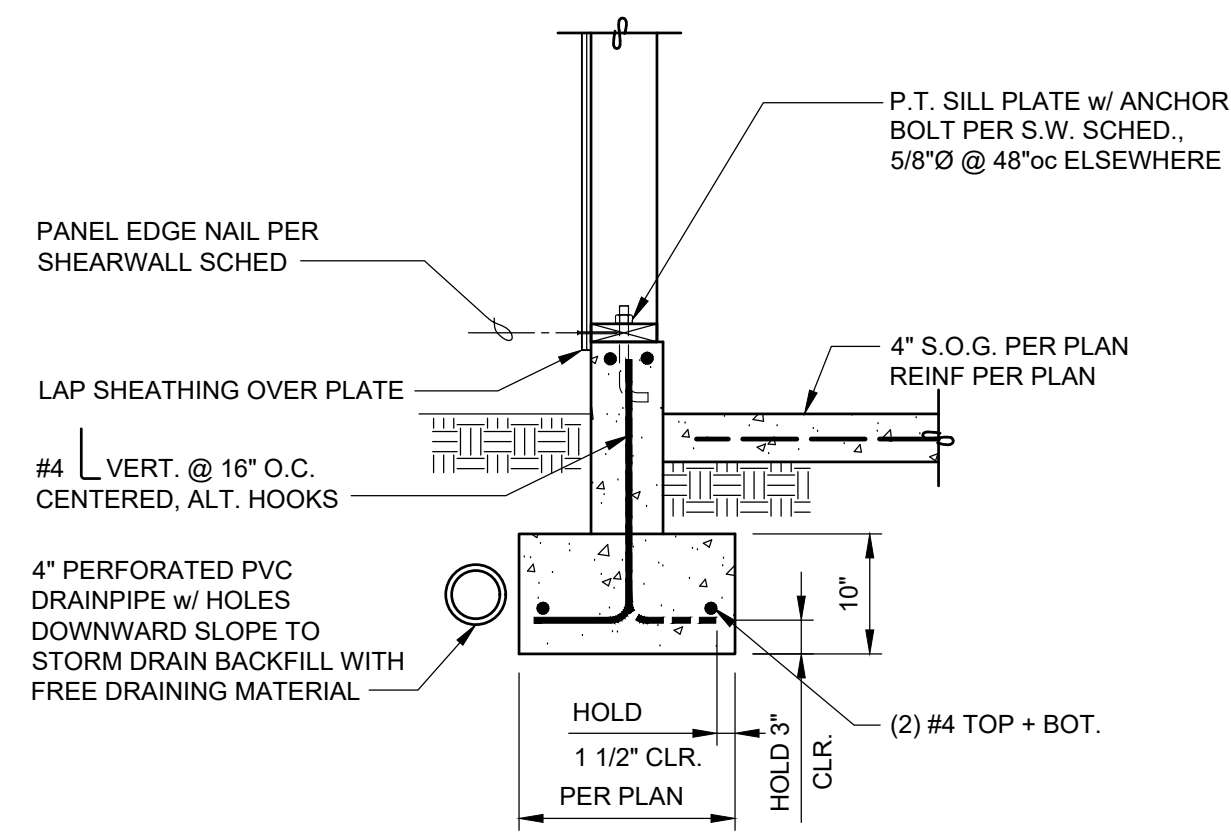


FOUNDATION PLAN

EXISTING RESIDENCE ADDITION
 4040 97TH AVE SE.,
 MERCER ISLAND, WA 98040

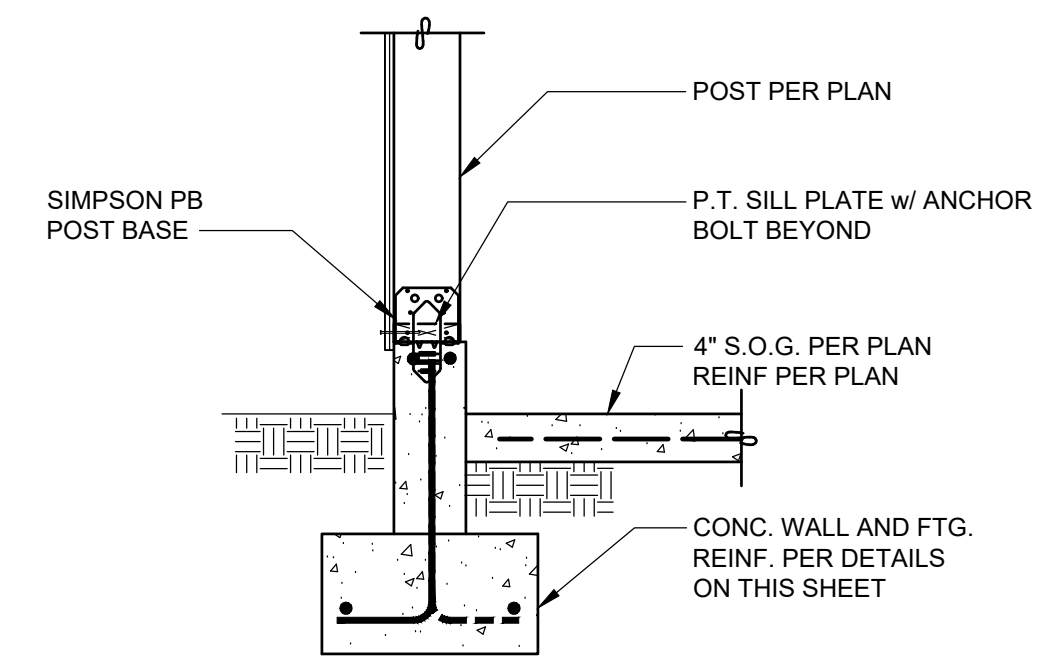
SHEET CONTENTS:

CHECKED: KWC
DATE: 06-30-2024
SHEET NO: S1.1



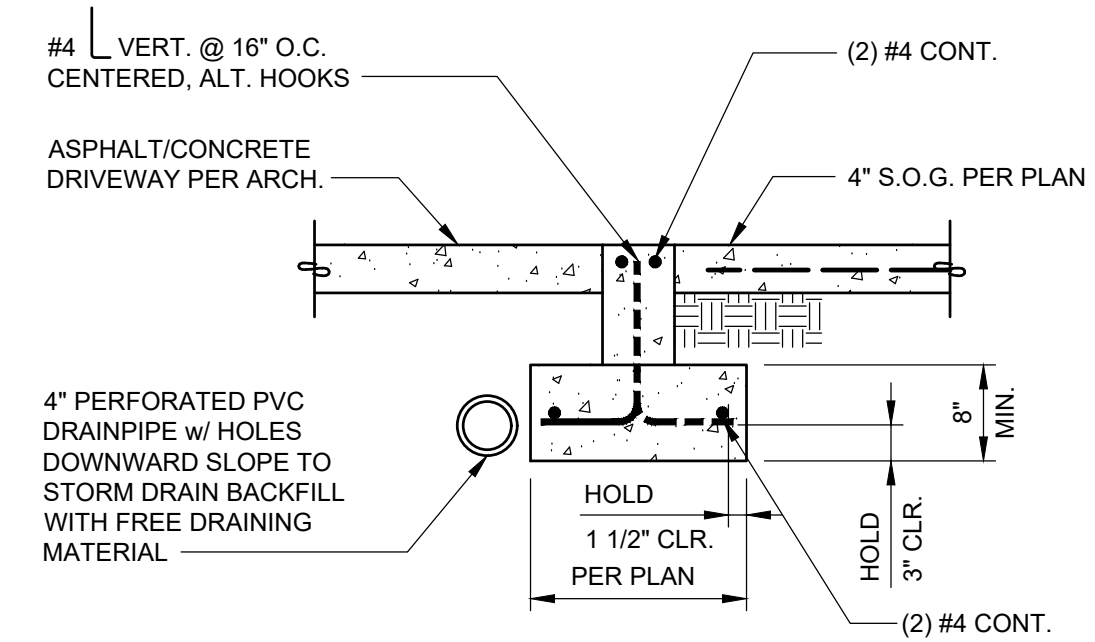
TYPICAL S.W. FOOTING

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



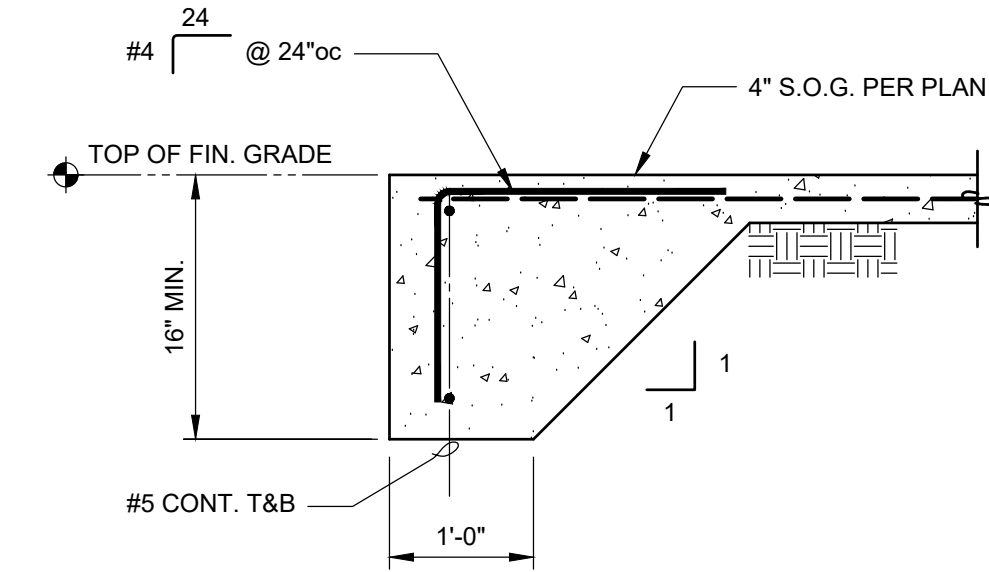
TYPICAL EXTERIOR WALL POST TO FTG.

2 SECTION
3/4" = 1'-0"



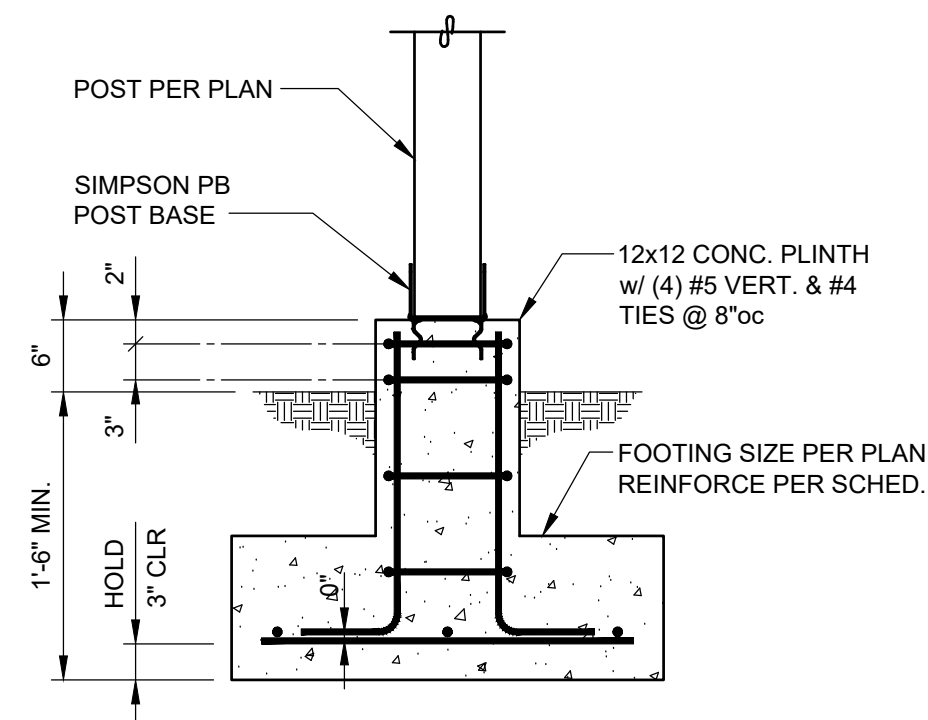
TYPICAL FOOTING AT DOORWAY/GARAGE (S.O.G.)

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



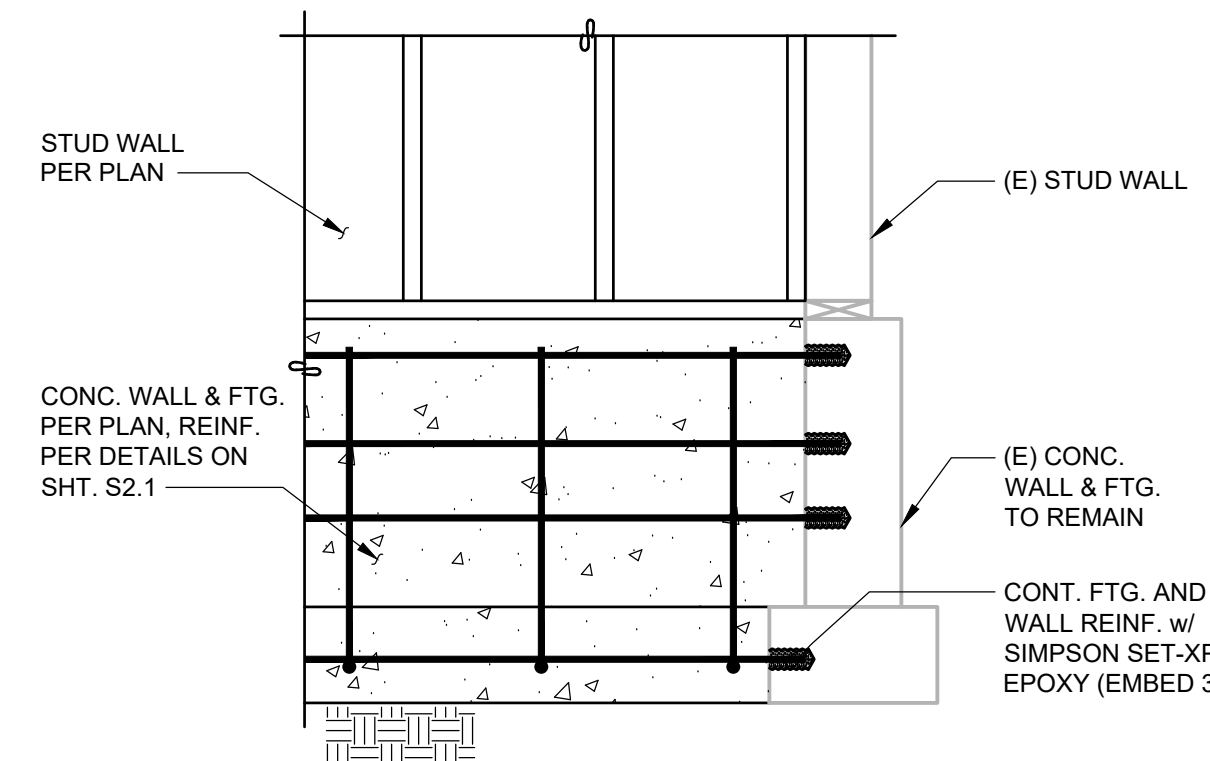
TYPICAL HAUNCH FOOTING

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



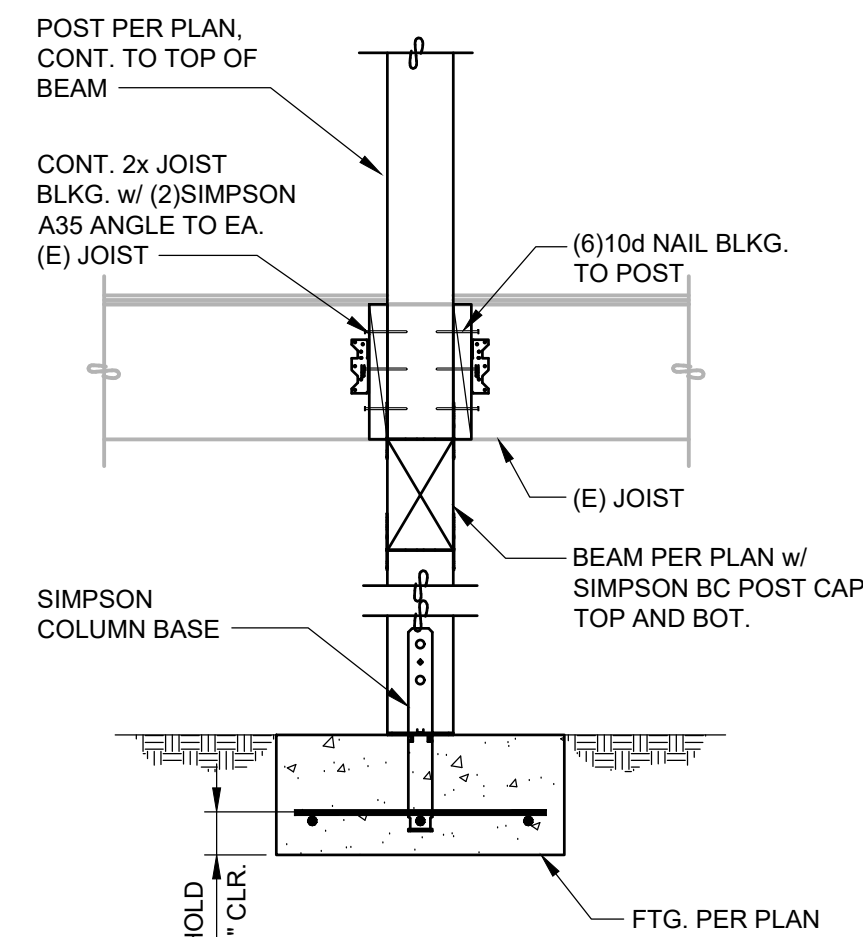
TYPICAL EXTERIOR COL. FOOTING

5 SECTION
3/4" = 1'-0"

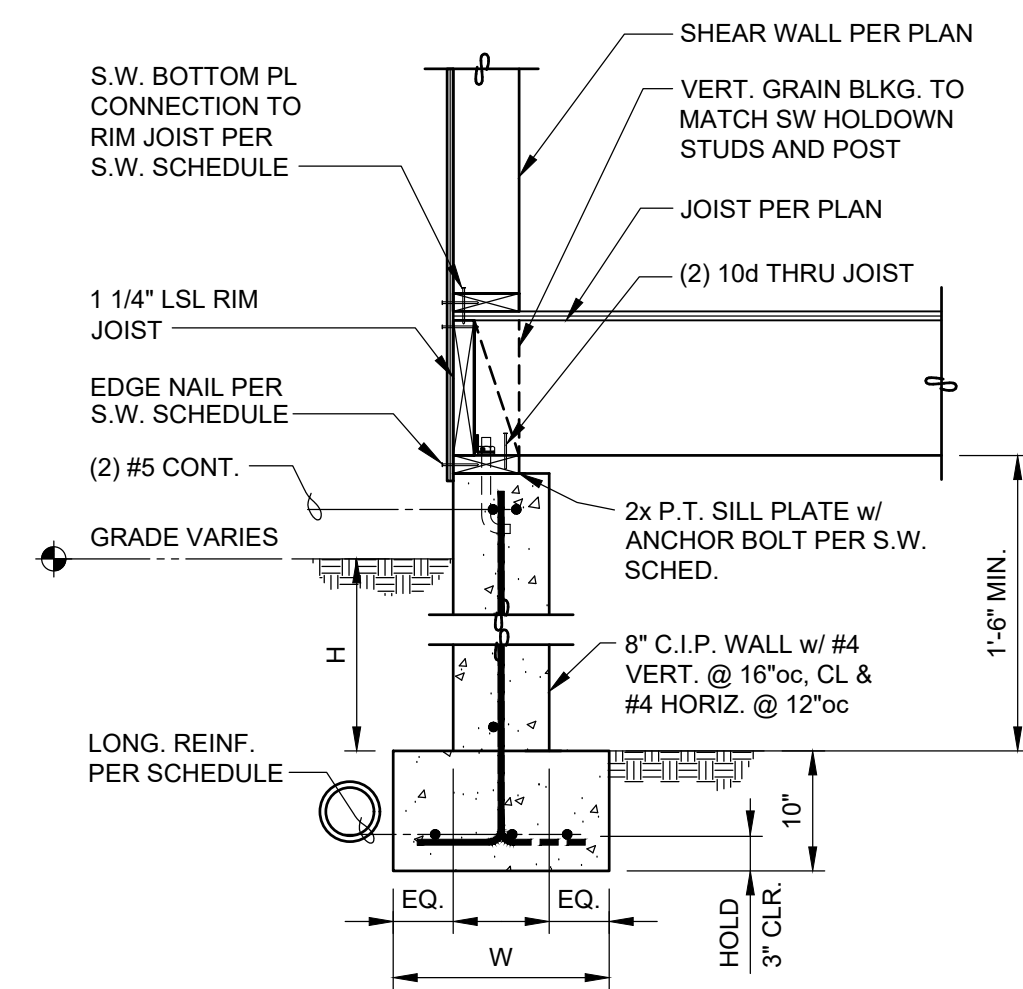


NEW WALL FOOTING TIE TO (E) FOOTING

6 SECTION
3/4" = 1'-0"



7 SECTION
3/4" = 1'-0"

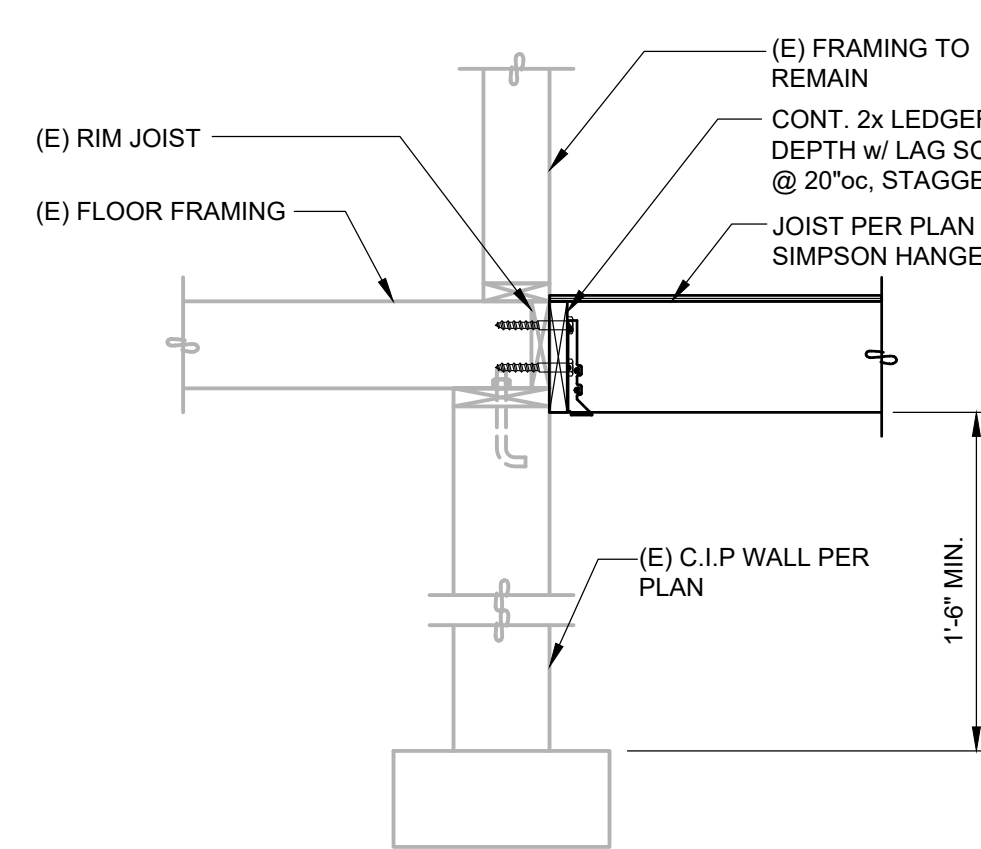


TYPICAL S.W. FOOTING (CRAWL SPACE)

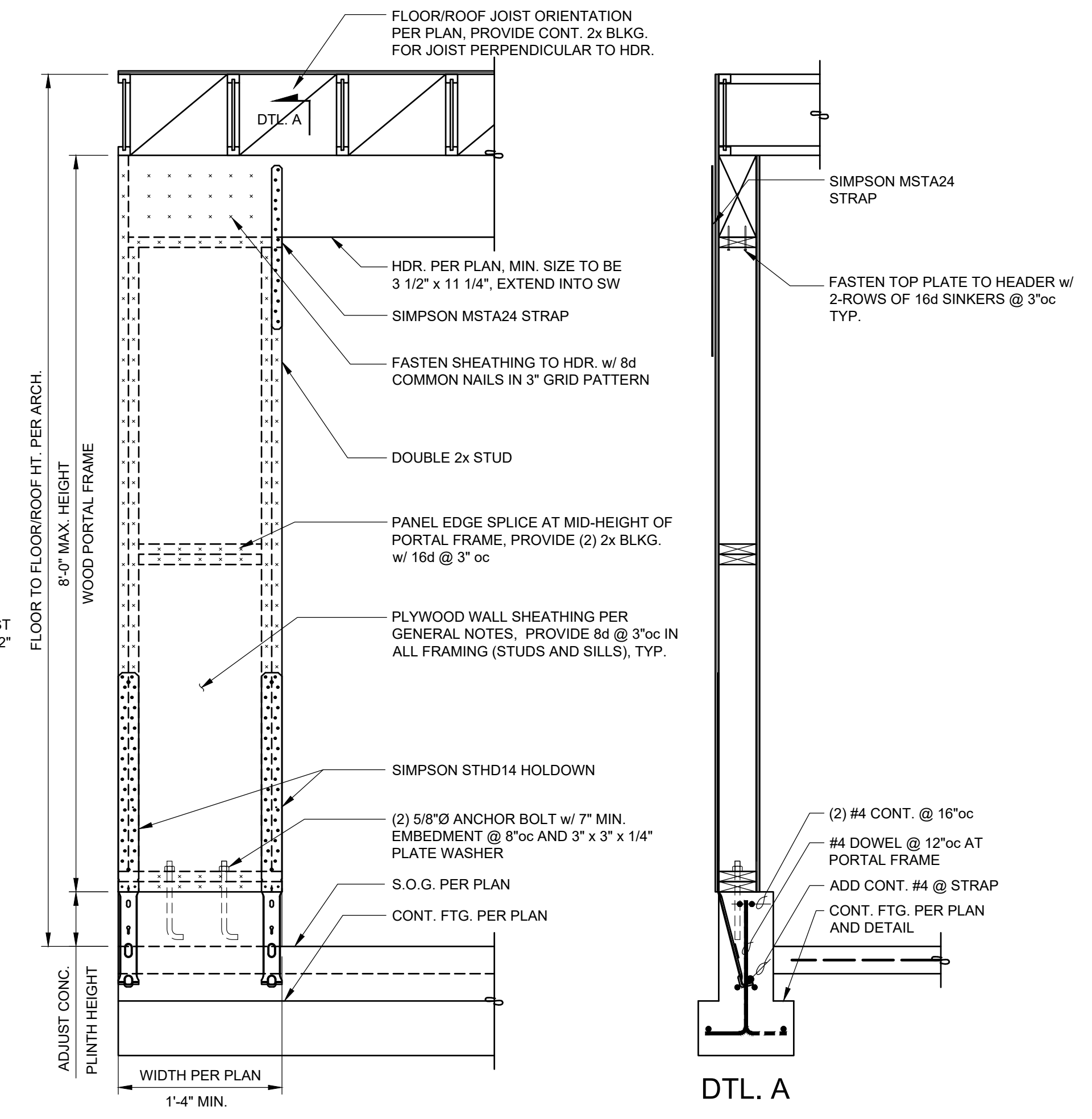
9 SECTION
3/4" = 1'-0"

8" CRAWLSPACE WALL SCHEDULE				
DIMENSIONS		STEM WALL REINF.		FOOTING REINF.
H	W	VERT.	HORIZ	LONG.
2'-0"	1'-6"	#4 @ 16"oc	#4 @ 12"oc	(3)#4
3'-0"	2'-2"	#4 @ 16"oc	#4 @ 12"oc	(4)#4
4'-0"	3'-8"	#4 @ 16"oc	#4 @ 12"oc	(5)#4
5'-0"	5'-2"	#4 @ 16"oc	#4 @ 12"oc	(7)#4

NOTE:
1. BACKFILL BEHIND ALL RETAINING WALLS WITH FREE DRAINING GRANULAR FILL AND PROVIDE FOR SUBSURFACE DRAINAGE AS NOTED PER SOILS ENGINEER RECOMMENDATIONS. MINIMUM 12" WIDE LAYER OF FREE DRAINING MATERIAL FROM COURSE TO MEDIUM (1 3/4" TO 3/8"). PROVIDE 4" PERFORATED PVC DRAINPIPE w/ HOLES DOWNWARD SLOPE TO STORM DRAIN DISCHARGE. SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR ADDITIONAL INFORMATION ON APPROVED DISCHARGE DESIGN.
2. RETAINING WALL SHALL BE IN STRENGTH, MINIMUM 14 DAYS CURING, PRIOR BACKFILLING BEHIND ALL RETAINING WALL. BACKFILL SHALL BE DONE IN 4'-0" LIFT MAXIMUM, DISTRIBUTED EVENLY ALONG WALL LINE.



11 SECTION
3/4" = 1'-0"



TYPICAL PORTAL FRAME w/ HOLDOWNS

12 SECTION
3/4" = 1'-0"

NO.	DRAWING SUBMITTALS / REVISIONS	DATE
	SUBMIT FOR PERMIT	07-24-2024
	SUBMIT FOR BID	
	SUBMIT FOR CONSTRUCTION	



DATE SIGNED: 07-12-2024

FOUNDATION SECTIONS

SHEET CONTENTS:

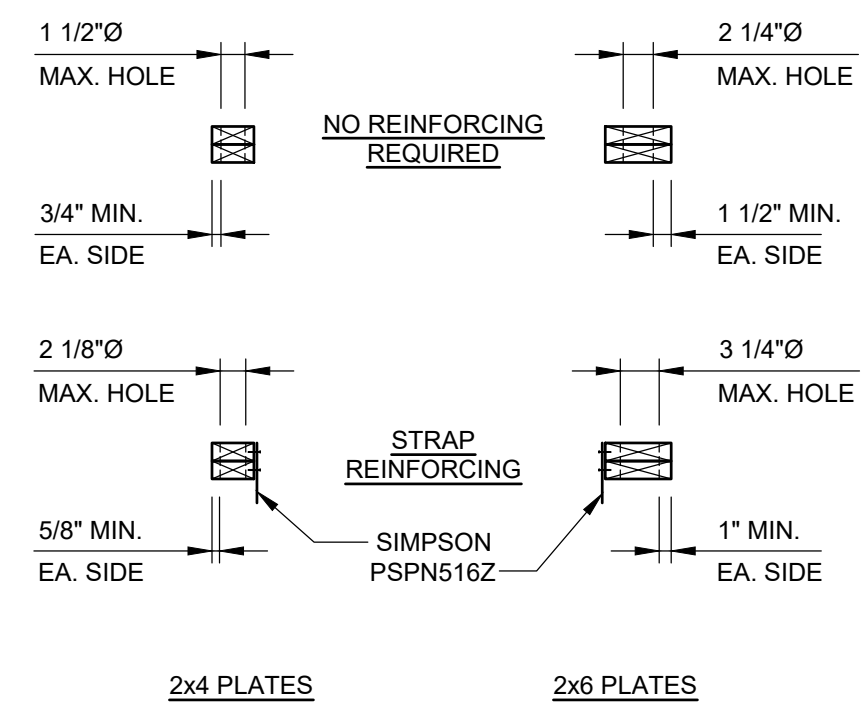
EXISTING RESIDENCE ADDITION
4040 97TH AVE SE.,
MERCER ISLAND, WA 98040

CHECKED: KWC

DATE: 06-30-2024

SHEET NO:

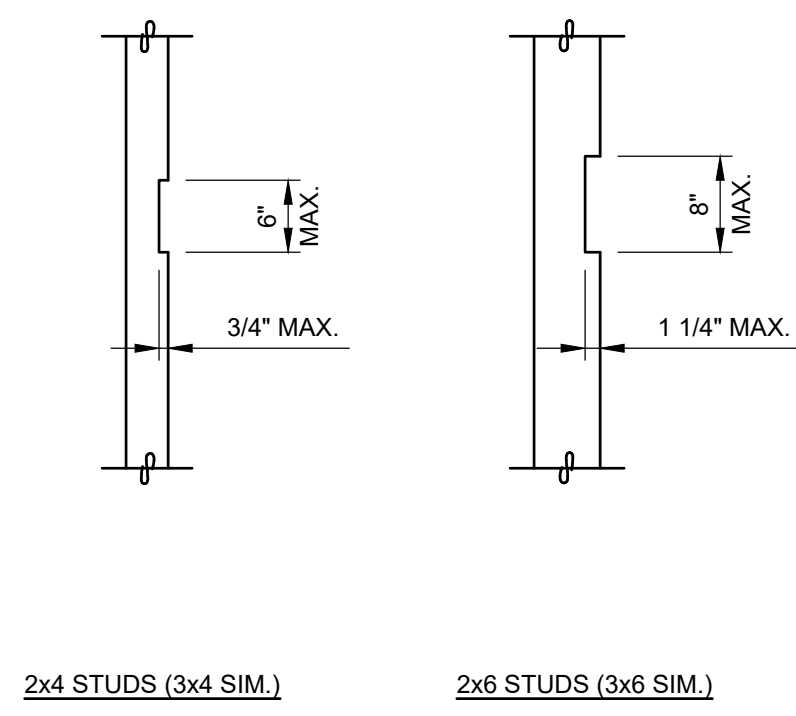
S2.1



ALLOWABLE HOLES THROUGH TOP PLATES

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

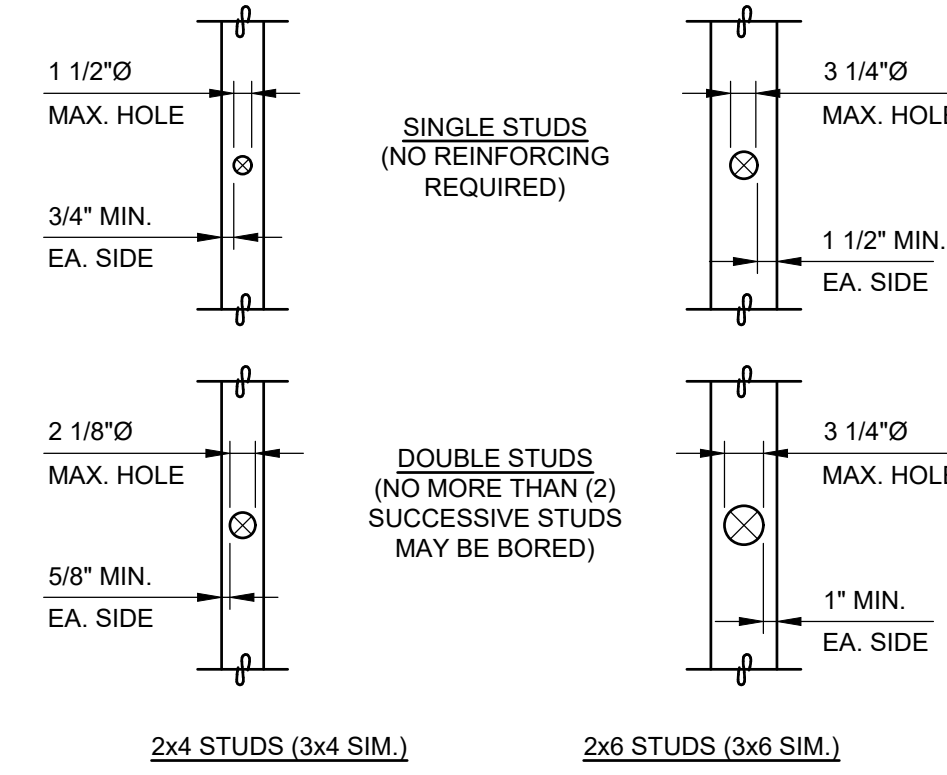
NOTE:
1) AT BOTTOM PLATES, FOLLOW GUIDELINES SHOWN, EXCEPT USE SIMPSON CS16 X 2'-0" STRAP



ALLOWABLE NOTCHES IN STUDS

2 SECTION 3/4" = 1'-0"

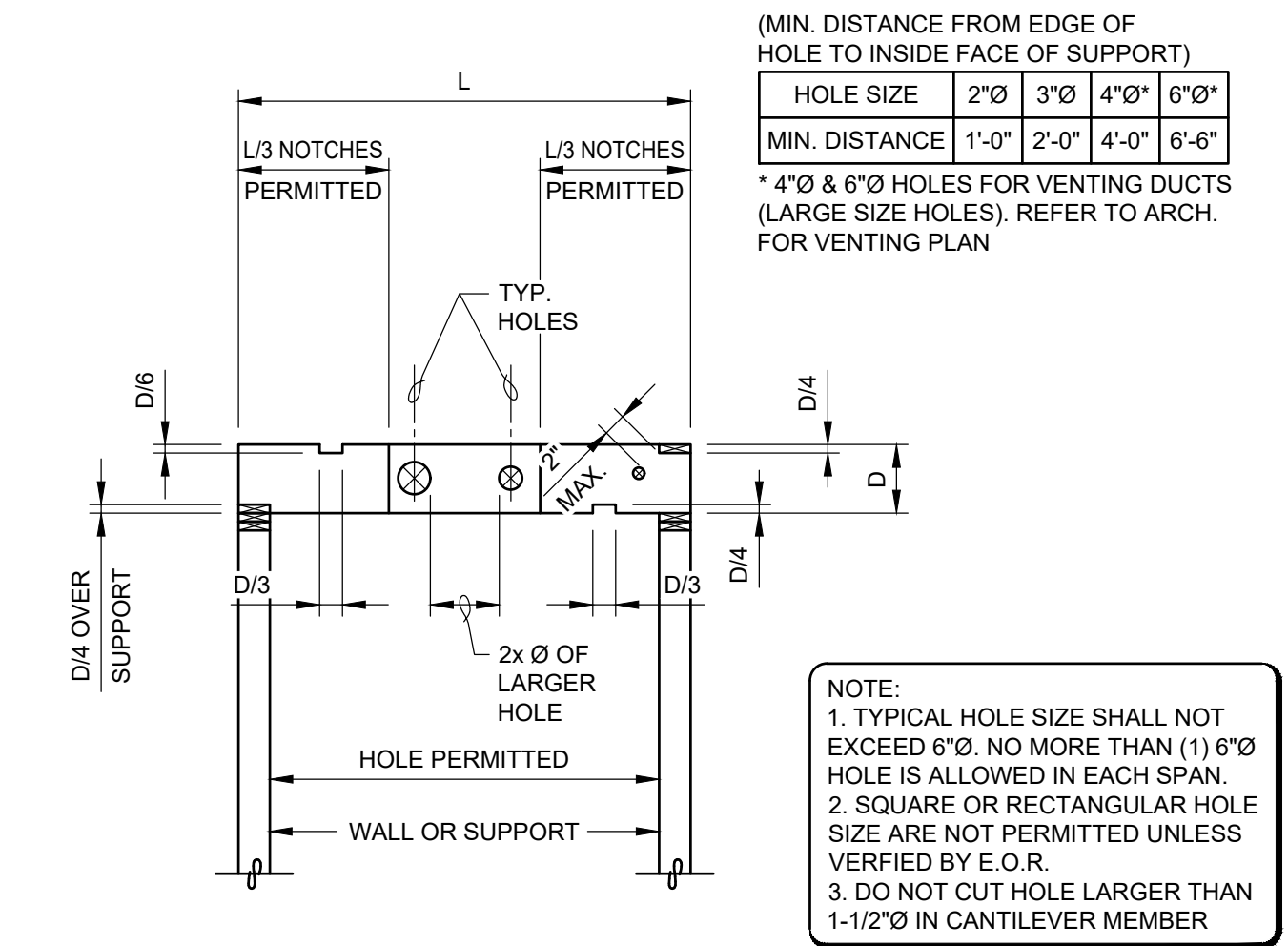
NOTE:
1) NOTCHES SHALL NOT OCCUR IN MORE THAN (2) SUCCESSIVE STUDS



ALLOWABLE HOLES THROUGH STUDS

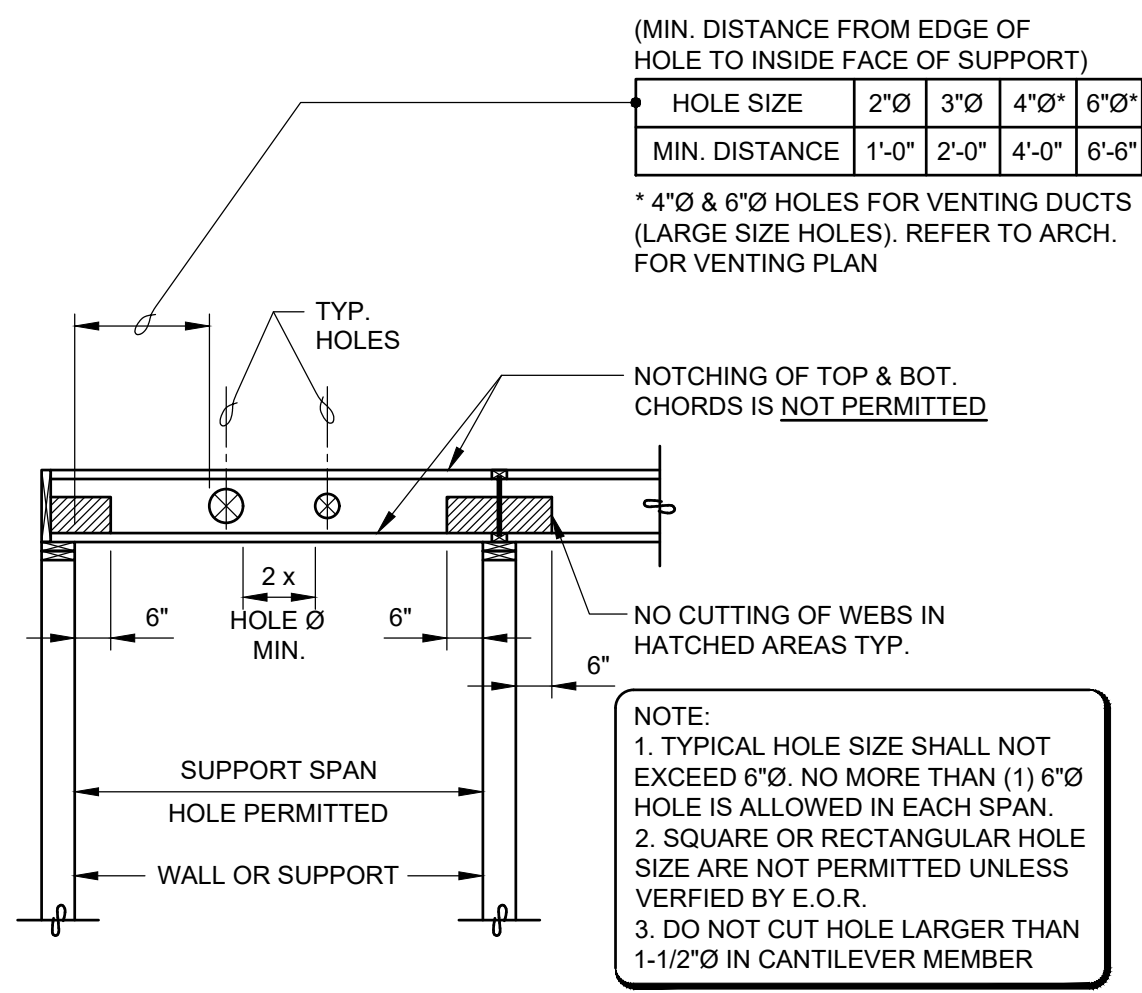
3 SECTION 3/4" = 1'-0"

NOTE:
1) NOTCHES SHALL NOT OCCUR IN MORE THAN (2) SUCCESSIVE STUDS



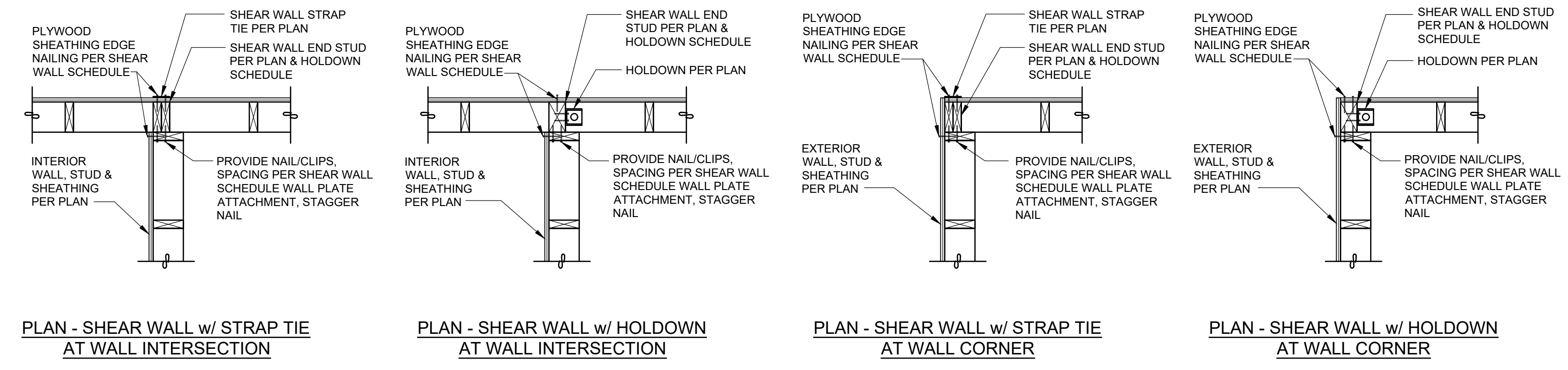
ALLOWABLE CUTTING IN LSL, LVL, PSL MEMBERS

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



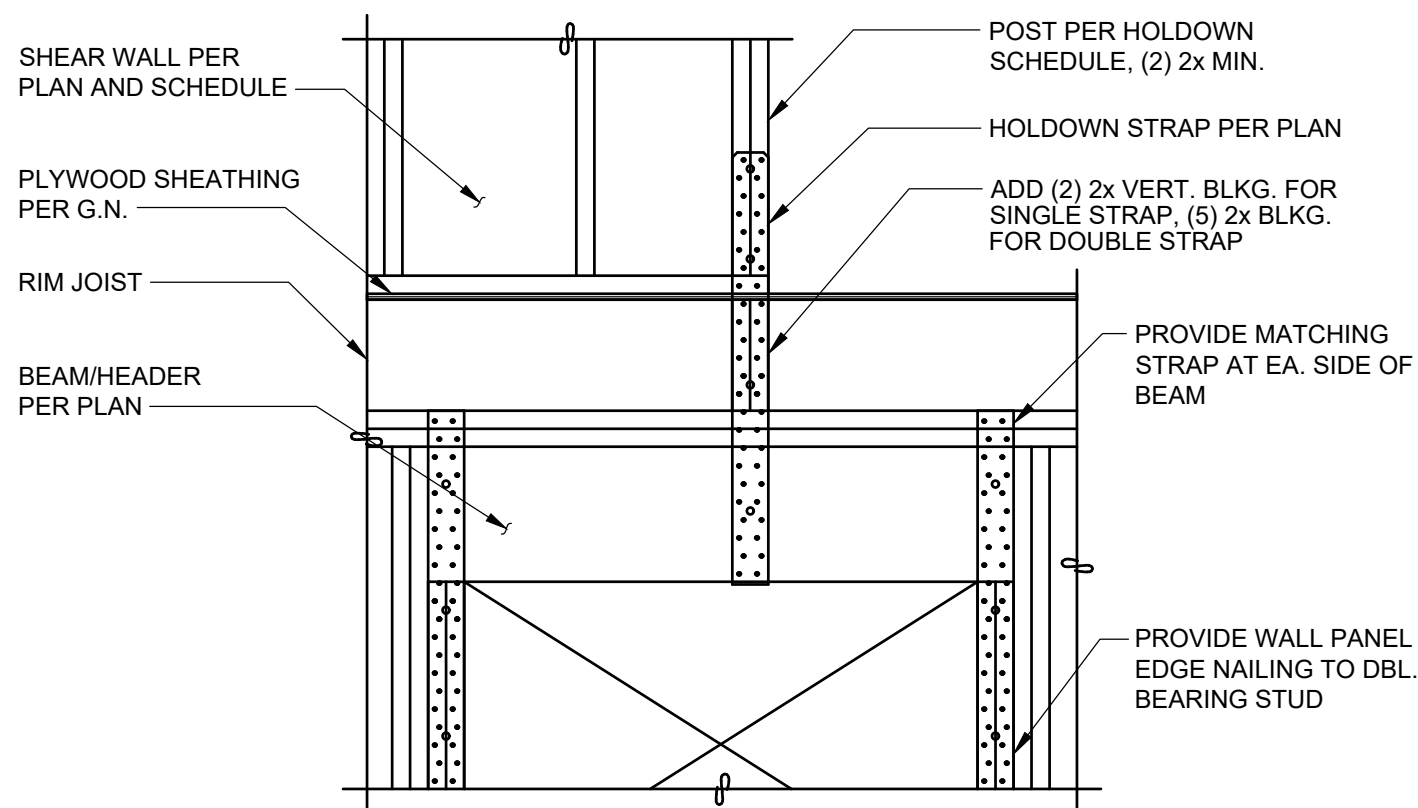
ALLOWABLE CUTTING IN WEB JOIST MEMBERS

5 SECTION 3/4" = 1'-0"



TYPICAL SHEAR WALL END STUD AT WALL INTERSECTION & CORNER

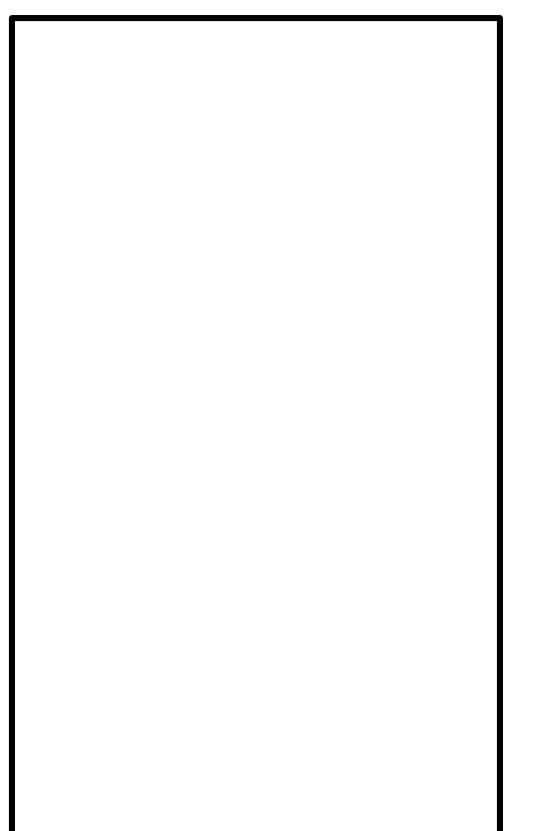
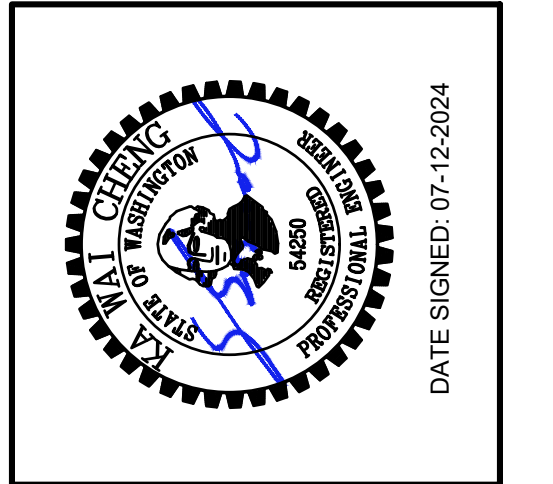
6 SECTION 3/4" = 1'-0"



TYPICAL HOLDDOWN AT BEAM/HEADER

7 SECTION 3/4" = 1'-0"

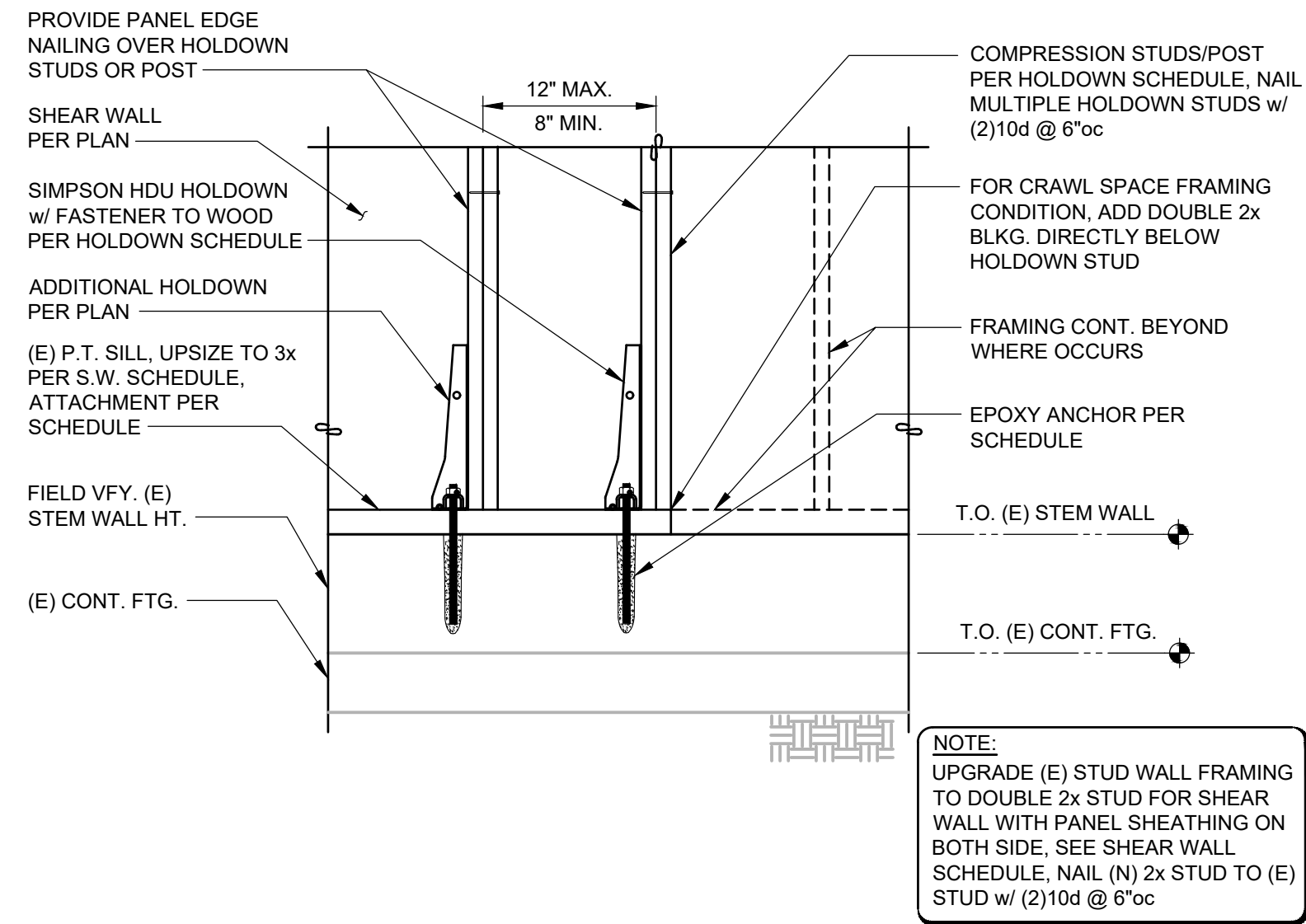
NO.	DESCRIPTION	DATE
	DRAWING SUBMITTALS / REVISIONS	07-24-2024
	SUBMIT FOR PERMIT	
	SUBMIT FOR BID	
	SUBMIT FOR CONSTRUCTION	



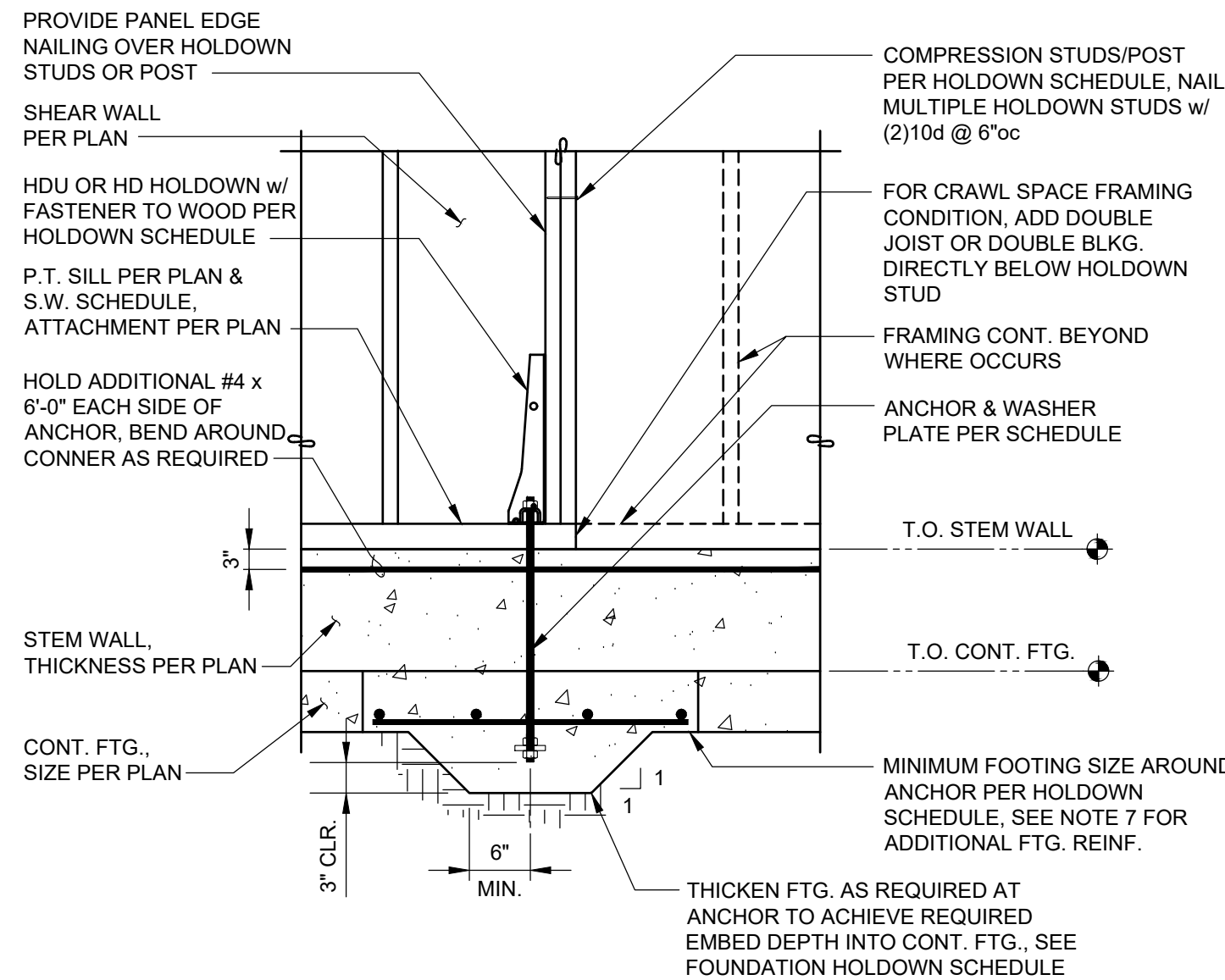
FRAMING SECTIONS

EXISTING RESIDENCE ADDITION
4040 97TH AVE SE.,
MERCER ISLAND, WA 98040

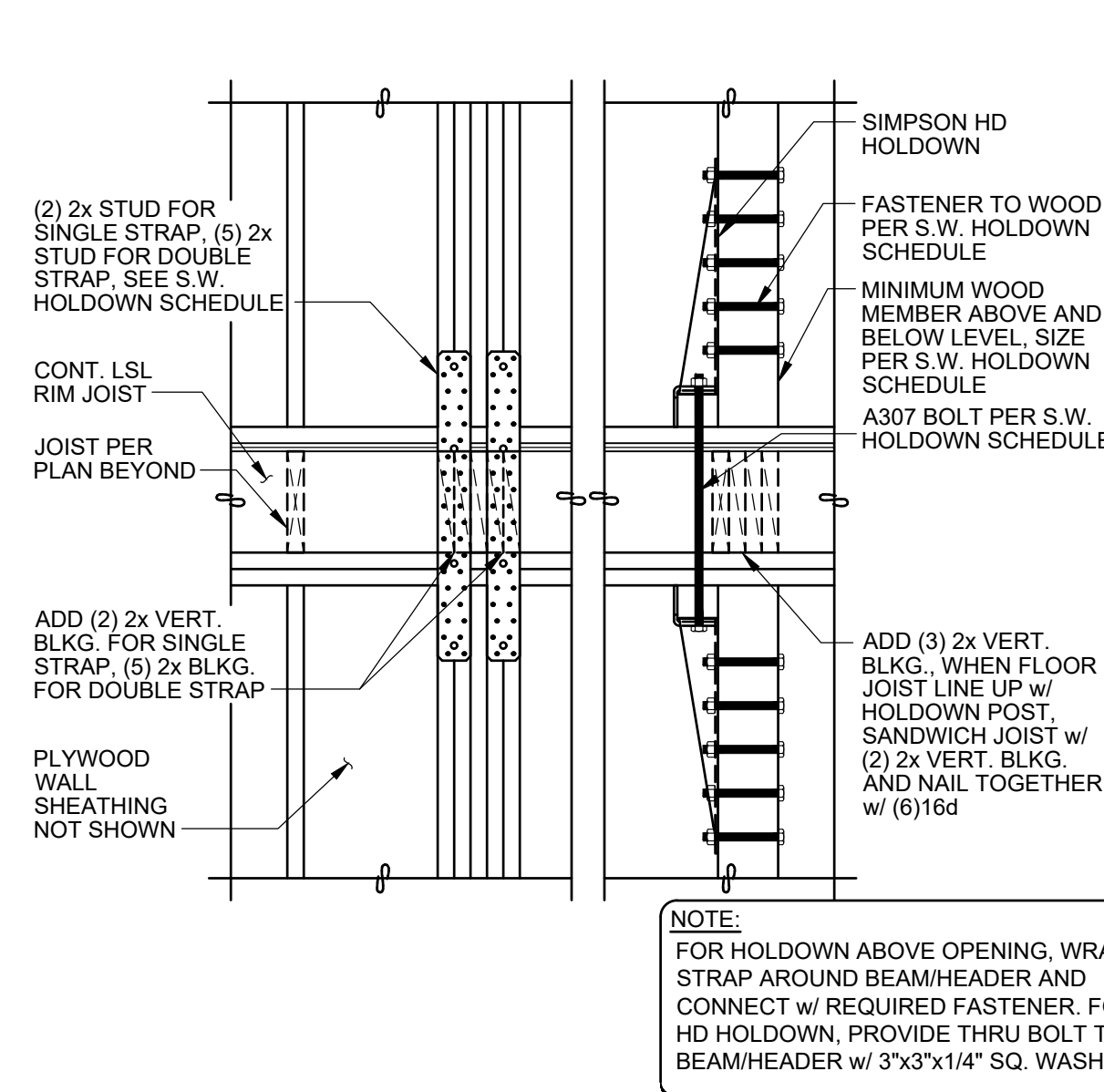
CHECKED: KWC
DATE: 06-30-2024
SHEET NO: S2.4



SHEAR WALL (E) FOUNDATION HOLDOWN



SHEAR WALL FOUNDATION HOLDOWN

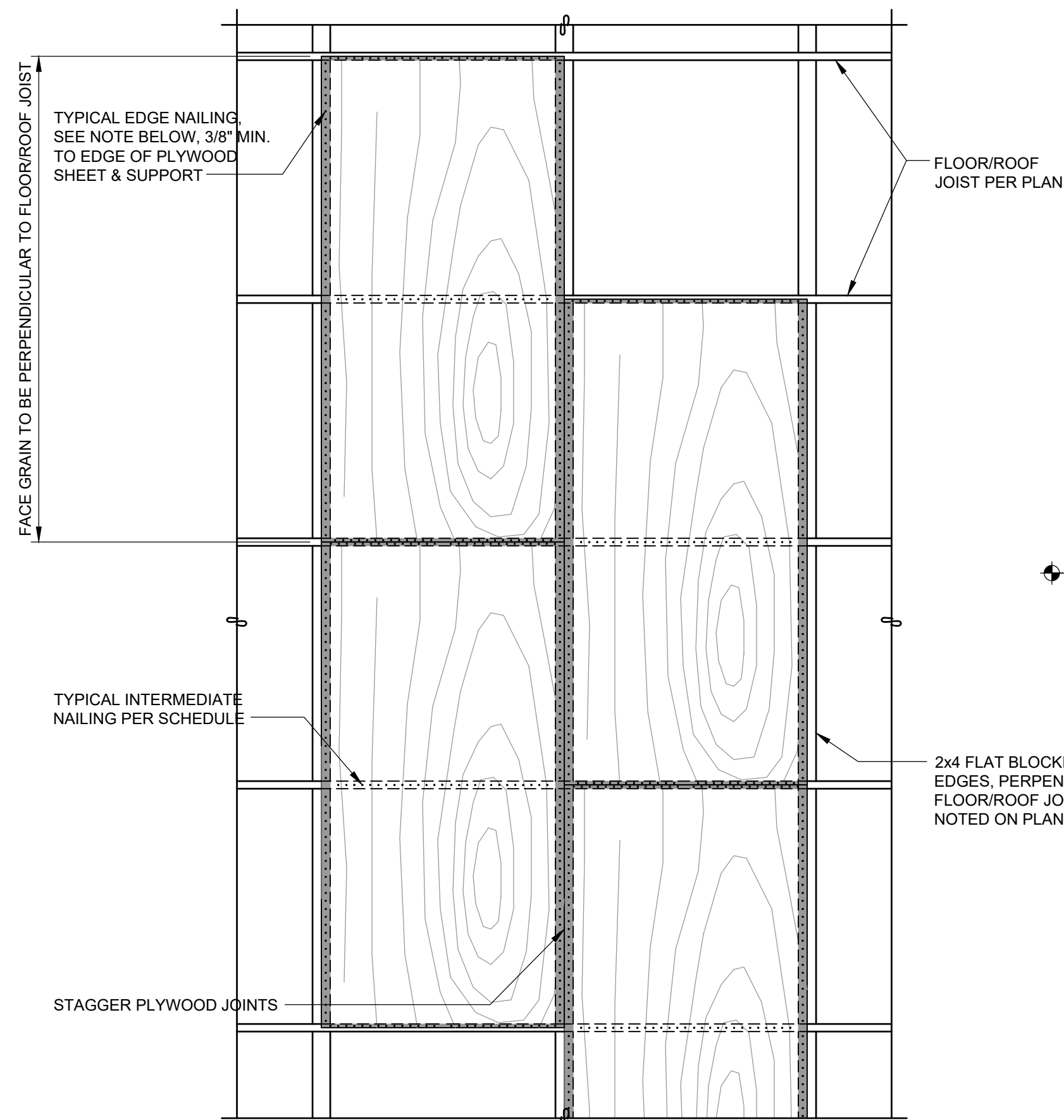


SHEAR WALL FRAMING HOLDOWN

SHEAR WALL FRAMING HOLDOWN SCHEDULE

MARK (NOTE 4)	FASTENERS TO WOOD (NOTE 1,3,5)		ANCHOR
	REQUIRED FASTENER TO WOOD	MINIMUM WOOD MEMBER SIZE	
MSTC28	(16) 16d SINKERS	(2)2x STUDS	-
MSTC40	(32) 16d SINKERS	(2)2x STUDS	-
MSTC52	(48) 16d SINKERS	(2)2x STUDS	-
MSTC66	(68) 16d SINKERS	(2)2x STUDS	-
MST72	(62) 16d	(2)2x STUDS	-
CMST12 x 84"	(74) 16d	(2)2x STUDS	-
HD12	(4) 1" DIA. A307 BOLTS	(3) 2x STUDS	1"φ A307 BOLT
HD12 (SPECL.)	(4) 1" DIA. A307 BOLTS	4x6 POST @ 2x4 WALL 6x6 POST @ 2x6 WALL	1"φ A307 BOLT
HD19	(5) 1" DIA. A307 BOLTS	4x8 POST @ 2x4 WALL 6x6 POST @ 2x6 WALL	1-1/8"φ A307 BOLT
HD19 (SPECL.)	(5) 1" DIA. A307 BOLTS	4x8 POST @ 2x4 WALL 6x6 POST @ 2x6 WALL	1-1/4"φ A307 BOLT

- SHEAR WALL FRAMING HOLDOWN NOTE:**
- MINIMUM WOOD MEMBER SIZE ABOVE AND BELOW WHERE OCCURS AT FLOOR LEVEL. DO NOT USE LAG BOLTS TO FASTEN HOLDOWNS TO WOOD MEMBERS.
 - HOLDOWN SCHEDULE IS PROVIDED FOR GENERAL INSTALLATION INFORMATION. NOT ALL OF HARDWARE SCHEDULED IS REQUIRED. SEE PLANS FOR HOLDOWN CALL-OUTS AND LOCATIONS. CONSULT MANUFACTURER FOR ADDITIONAL INFORMATION.
 - QUANTITY OF NAILS FOR STRAPS ARE EVENLY DIVIDED BETWEEN ENDS OF STRAPS ABOVE AND BELOW THE DEPTH OF THE FLOOR SYSTEM. USE 16d COMMON NAILS, U.N.O.
 - FOR 2X STRAP CALL-OUT ON PLAN, USE DOUBLE STRAP TIES AND PROVIDE (5) 2x STUDS
 - IF SHEAR WALL REQUIRES 3x STUDS PER SHEAR WALL SCHEDULE, USE 3x INSTEAD OF 2x NOTED ON HOLDOWN SCHEDULE.



TYPICAL FLOOR/ROOF SHEATHING

1 PLAN VIEW

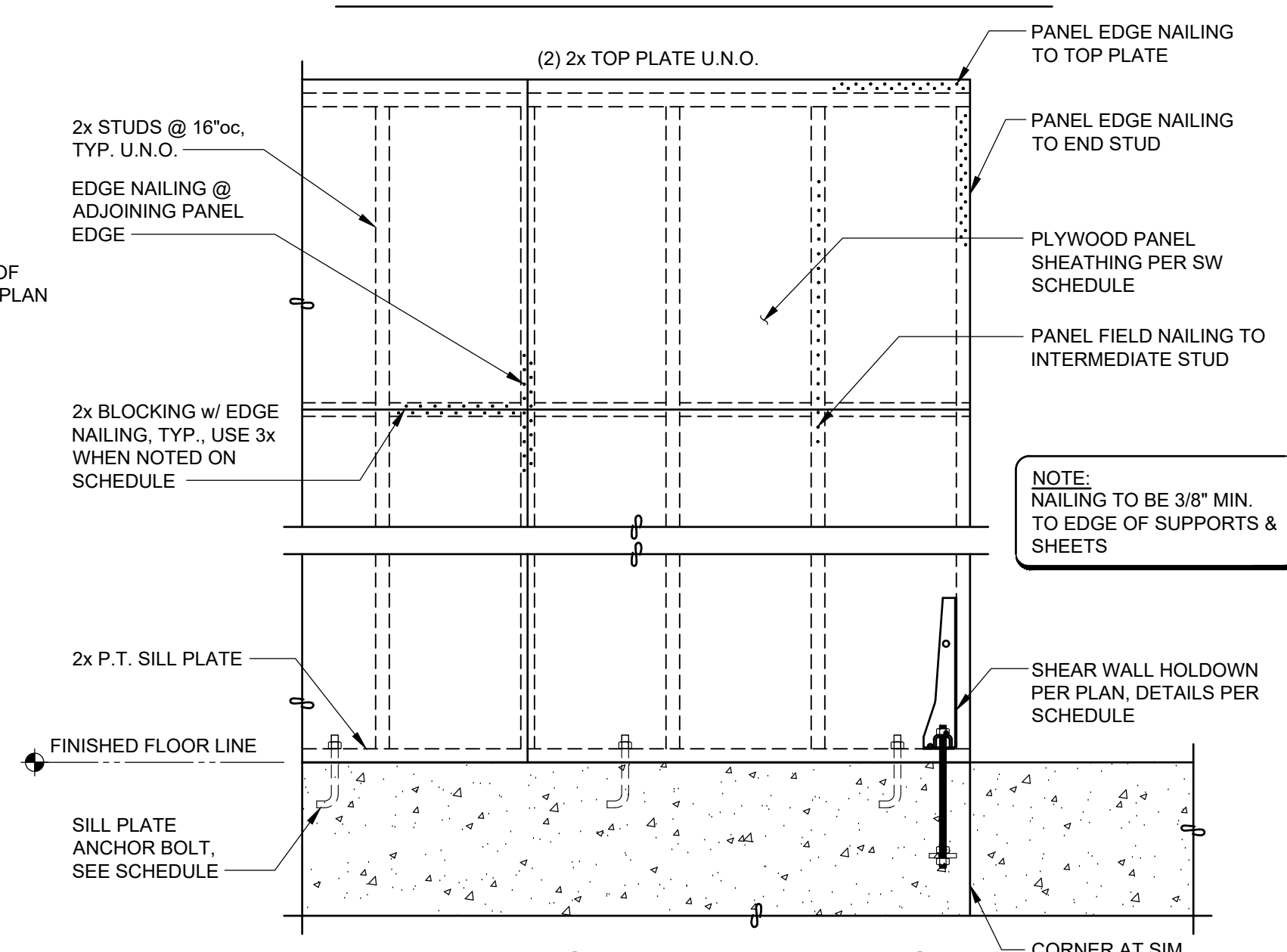
N.T.S.

DIAPHRAGM NAILING SCHEDULE

ZONE	NAIL SPACING @ CONTINUOUS EDGES	NAIL SPACING @ INTERMEDIATE SUPPORT	STIFFENERS
1	0.148"φ @ 6"oc AT SUPPORTED EDGES	0.131"φ @ 12"oc	SEE GENERAL NOTES
2	0.148"φ @ 4"oc AT SUPPORTED EDGES	0.131"φ @ 12"oc	BLOCKED, w/ 2x FLAT BLOCKS AT UNSUPPORTED PANEL EDGES
3	0.148"φ @ 2"oc AT SUPPORTED EDGES	0.131"φ @ 12"oc	BLOCKED, w/ 2x FLAT BLOCKS AT UNSUPPORTED PANEL EDGES

ROOF AND FLOOR DIAPHRAGM NAILING NOTE:

- ALL NAILS SHALL BE 10d COMMON (0.148"φ) w/ 1-1/2" MIN. PENETRATION INTO FRAMING.
- ALL NAILS TO BE FLUSH DRIVEN & SHALL NOT FRACTURE PLYWOOD SURFACE.
- PROVIDE 3/8" MIN. CLEARANCE BETWEEN NAIL CENTERLINE AND PANEL EDGE.
- PROVIDE 2 ROWS 10d @ 4"oc EA. ROW AT EXTERIOR DIAPHRAGM BOUNDARIES, (BLDG. PERIMETER) TYP. (U.N.O.)
- AT STEEL STRAP TIE LOCATIONS, NAIL ALL HOLES w/ 1-1/2" MIN. PENETRATION INTO SAWN LUMBER FRAMING. DO NOT USE 10d x 1-1/2" NAILS AS SPECIFIED IN SUPPLIER LITERATURE.
- ZONE 1 APPLIES TO ALL ROOF AND FLOOR NAILING, U.N.O. ALL FLOOR SHEATHING EDGES SHALL HAVE APPROVED T&G JOINTS OR SHALL BE SUPPORTED WITH SOLID BLOCKING.



TYPICAL WALL FRAMING

2 SECTION

N.T.S.

SHEAR WALL FOUNDATION HOLDOWN SCHEDULE

MARK REQUIRED HD.	ANCHOR TO CONCRETE				HOLDOWN TO WOOD POST (NOTE 2,4)		
	REQUIRED ANCHOR (NOTE 1)	A307 BOTTOM DBL. NUT PLATE WASHER	MINIMUM EMBEDMENT DEPTH (NOTE 5)	MINIMUM (N) FOOTING SIZE AROUND ANCHOR (NOTE 6,7)	FASTENER TO POST	POST (2x4 WALL)	POST (2x6 WALL)
STHD10	-	-	10" FROM T.O. STEM WALL	-	(18)16d	(2)2x4 STUDS	(2)2x6 STUDS
STHD14	-	-	14" FROM T.O. STEM WALL	-	(22)16d	(2)2x4 STUDS	(2)2x6 STUDS
HDU4	SB 5/8x24 OR 5/8"φ A307	1-3/4" SQ. x 1/2"	18" FROM T.O. STEM WALL / 9" FROM T.O. (E) STEM WALL*	-	(10)1/4"x2-1/2" SDS	(2)2x4 STUDS	(2)2x6 STUDS
HDU5	SB 5/8x24 OR 5/8"φ A307	1-3/4" SQ. x 1/2"	18" FROM T.O. STEM WALL / 10" FROM T.O. (E) STEM WALL*	-	(14)1/4"x2-1/2" SDS	(2)2x4 STUDS	(2)2x6 STUDS
HDU8	SB 7/8x24 OR 7/8"φ A307	1-3/4" SQ. x 1/2"	18" FROM T.O. STEM WALL / 12" FROM T.O. (E) STEM WALL*	-	(20)1/4"x2-1/2" SDS	4x4 POST	(3) 2x6 STUDS
HDU11	PAB8 OR 1"φ A307	2-3/4" SQ. x 5/8"	11" FROM T.O. CONT. FTG.	33" x 33"	(30)1/4"x2-1/2" SDS	4x6 POST	6x6 POST
HDU14	PAB8 OR 1"φ A307	2-3/4" SQ. x 5/8"	11" FROM T.O. CONT. FTG.	33" x 33"	(36)1/4"x2-1/2" SDS	4x6 POST	4x6 POST
HD12	PAB8 OR 1"φ A307	2-3/4" SQ. x 5/8"	11" FROM T.O. CONT. FTG.	33" x 33"	(4) 1"DIA. A307 BOLTS	(3)2x4 STUDS	(3)2x6 STUDS
HDU14 (SPECL.)	PAB8 OR 1"φ A307	2-3/4" SQ. x 5/8"	11" FROM T.O. CONT. FTG.	33" x 33"	(36)1/4"x2-1/2" SDS	4x8 POST	6x6 POST
HD12 (SPECL.)	PAB9 OR 1-1/8"φ A307	3-1/4" SQ. x 5/8"	13" FROM T.O. CONT. FTG.	38" x 38"	(4) 1"DIA. A307 BOLTS	4x8 POST	6x6 POST
HD19	PAB9 OR 1-1/8"φ A307	3-1/4" SQ. x 5/8"	13" FROM T.O. CONT. FTG.	38" x 38"	(5) 1" DIA. A307 BOLTS	4x8 POST	6x6 POST
HD19 (SPECL.)	PAB9 OR 1-1/8"φ A307	3-1/4" SQ. x 5/8"	13" FROM T.O. CONT. FTG.	38" x 38"	(5) 1" DIA. A307 BOLTS	4x8 POST	6x6 POST

SHEAR WALL FOUNDATION HOLDOWN NOTE:

- SIMPSON SB AND PAB CAN BE SUBSTITUTED WITH ASTM A307 HEADED ANCHOR BOLT w/ BOTTOM DOUBLE NUT AND PLATE WASHER PER SCHEDULE
- MINIMUM WOOD MEMBER SIZE ABOVE AND BELOW WHERE OCCURS AT FLOOR LEVEL. ACCEPTABLE TO SUBSTITUTE 2x BUILT-UP POST THAT MATCHES REQUIRED POST DEPTH. DO NOT USE LAG BOLTS TO FASTEN HOLDOWNS TO WOOD MEMBERS.
- HOLDOWN SCHEDULE IS PROVIDED FOR GENERAL INSTALLATION INFORMATION. NOT ALL OF HARDWARE SCHEDULED IS REQUIRED. SEE PLANS FOR HOLDOWN CALL-OUTS AND LOCATIONS. CONSULT MANUFACTURER FOR ADDITIONAL INFORMATION.
- FOR SHEAR WALL REQUIRES 3x STUDS PER SHEAR WALL SCHEDULE, USE 3x INSTEAD OF 2x NOTED ON HOLDOWN SCHEDULE.
- FOR ANCHORS CONNECTING TO EXISTING CONCRETE, DENOTED WITH MINIMUM EMBED DEPTH (*), (x") IN PLAN DRAWING, PROVIDE SIMPSON SET-XP EPOXY. EMBED DEPTH AND NUMBER OF REQUIRED HOLDOWN PER PLAN.
- CAST ENLARGED FOOTING AROUND ANCHOR MONOLITHICALLY WITH CONT. FOOTING. MINIMUM FOOTING SIZE AROUND ANCHOR PER SCHEDULE, THICKEN FOOTING DEPTH TO ACHIEVE MINIMUM EMBEDMENT DEPTH PER SCHEDULE, SEE DETAIL ON THIS SHEET.
- PROVIDE #4 @ 6"oc EA. WAY BOTTOM FOR FOOTING AROUND HOLDOWN ANCHOR.

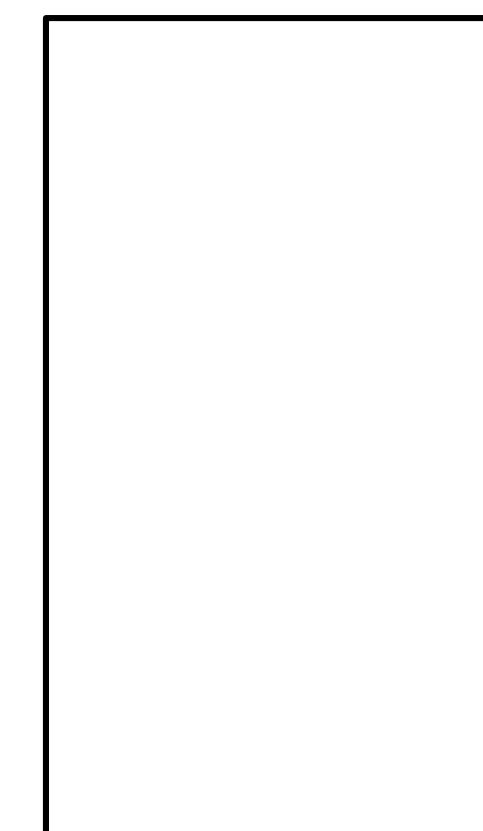
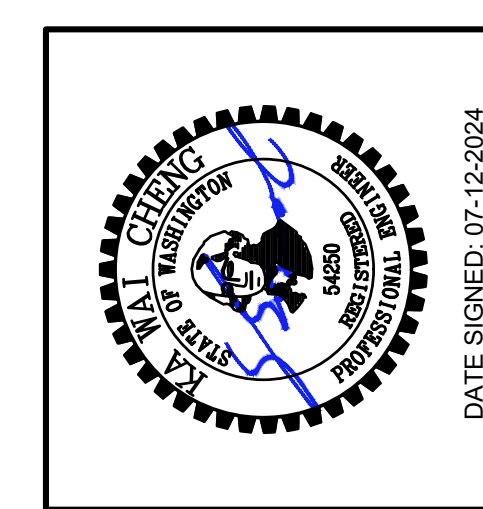
SHEAR WALL SCHEDULE (DOUG FIR OR HEM FIR LUMBER PER GENERAL NOTES)

MARK	APA RATED SHEATHING (NOTE 1,2,4,12,13)		WALL STUD AND EDGE BLKG. (NOTE 3,6,14)	RIM JOIST OR BOARD CONNECTION TO WALL TOP PL OR SILL PL (NOTE 7,8)	WALL BOTTOM PLATE CONNECTION TO RIM BOARD, FLOOR BLKG. OR INTERIOR TRANSFER BEAM (NOTE 8,9)	SILL PLATE ATTACHMENT TO CONCRETE (PRESSURE-TREATED)		DOUG-FIR SHEAR CAPACITY (PLF)	HEM-FIR SHEAR CAPACITY (PLF)
	APPLICATION	PANEL EDGE 8d NAIL SPACING (NOTE 4,5)				5/8"φ x 7" ANCHOR BOLT SPACING (NOTE 10,15)	SILL PLATE SIZE (NOTE 11)		
W3	ONE SIDE	0.131" x 2 1/2" @ 3"oc	2x	CLIP @ 11"oc	0.148"x3 1/4" @ 3"oc	21"oc	2x	490	455
W4	ONE SIDE	0.131" x 2 1/2" @ 4"oc	2x	CLIP @ 14"oc	0.148"x3 1/4" @ 4"oc	28"oc	2x	380	353
W6	ONE SIDE	0.131" x 2 1/2" @ 6"oc	2x	CLIP @ 20"oc	0.148"x3 1/4" @ 6"oc	40"oc	2x	260	242
2W2	BOTH SIDE	0.131" x 2 1/2" @ 2"oc STAGGERED	3x	3-CLIPS @ 12"oc	3-CLIPS @ 12"oc	10"oc	3x	1280	1190
2W3	BOTH SIDE	0.131" x 2 1/2" @ 3"oc STAGGERED	3x	2-CLIPS @ 11"oc	2-CLIPS @ 11"oc	12"oc	3x	980	912
2W4	BOTH SIDE	0.131" x 2 1/2" @ 4"oc	3x	2-CLIPS @ 14"oc	2-CLIPS @ 14"oc	18"oc	3x	760	706
2W6	BOTH SIDE	0.131" x 2 1/2" @ 6"oc	3x	2-CLIPS @ 20"oc	2-CLIPS @ 20"oc	21"oc	3x	520	484

SHEAR WALL NOTES:

- INSTALL PANELS EITHER HORIZONTALLY OR VERTICALLY FOR ENTIRE LENGTH SHOWN ON PLANS.
- WHERE SHEATHING IS APPLIED ON BOTH SIDES OF WALL, PANEL EDGE JOINTS ON 2x FRAMING SHALL BE STAGGERED SO THAT JOINTS ON OPPOSITE SIDES ARE NOT LOCATED ON THE SAME STUDS.
- BLOCKING IS REQUIRED AT ALL PANEL EDGES.
- PROVIDE SHEAR WALL SHEATHING AND NAILING FOR THE ENTIRE LENGTH OF THE WALLS INDICATED ON THE PLANS. ENDS OF FULL HEIGHT WALLS ARE DESIGNATED BY EXTERIOR OF THE BUILDING, CORRIDORS, WINDOWS, OR DOORWAYS OR AS DESIGNATED ON THE PLANS. SEE PLANS FOR HOLDOWN REQUIREMENTS. ALTERNATE WALLS DESIGNATED AS PERFORATED SHEAR WALLS REQUIRE SHEATHING ABOVE AND BELOW ALL OPENINGS.
- SHEATHING EDGE NAILING IS REQUIRED AT ALL HOLDOWN POSTS. EDGE NAILING MAY ALSO BE REQUIRED TO EACH STUD USED IN BUILT-UP HOLDOWN POSTS. REFER TO THE HOLDOWN DETAILS FOR ADDITIONAL INFORMATION.
- INTERMEDIATE FRAMING TO BE WITH 2x MINIMUM MEMBERS. FIELD NAILING SHALL BE AT 12"oc MAX.
- USE 0.131x1-1/2" LONG NAILS TO ATTACH FRAMING CLIPS DIRECTLY TO FRAMING. USE 0.131x2-1/2" NAILS WHEN CLIPS ARE INSTALLED OVER SHEATHING.
- FRAMING CLIPS ARE EITHER A35 ANGLE OR LTP4 (AT EXTERIOR FACE OF WALL SHEATHING), OR APPROVED EQUIVALENT.
- WHERE PLATE ATTACHMENT SPECIFIES 2- ROWS OF NAILS, PROVIDE DOUBLE JOIST, RIM, BLKG. OR EQUAL. ATTACH PER DETAILS.
- ANCHOR BOLTS SHALL BE PROVIDED WITH 3"x3"x1/4" PLATE WASHERS. FOR ANCHOR IN EXISTING FOUNDATION, EMBED ANCHOR BOLT 7" INTO CONCRETE WITH SIMPSON SET-XP EPOXY; EMBED ANCHOR BOLT 7" INTO CMU WITH SIMPSON SET EPOXY. FIELD VERIFY CMU CELLS ARE SOLID GROUTED.
- PRESSURE PRESERVATIVE TREATED WOOD CAN CAUSE EXCESSIVE CORROSION AND DEGRADATION OF FASTENERS. PROVIDE HOT DIPPED GALVANIZED NAILS AND CONNECTOR PLATES FOR ALL CONNECTORS IN CONTACT WITH PRESERVATIVE TREATED FRAMING MEMBERS.
- DETAIL ALL EXTERIOR WALL TO BE W6 PER SCHEDULE, U.N.O. ON PLAN.
- 7/16" APA RATED SHEATHING (OSB) MAY BE USED IN LIEU OF 15/32" SHEATHING PROVIDED THAT ALL STUDS ARE SPACED 16"oc AND ENGINEER OF RECORD HAS BEEN NOTIFIED IN WRITING AND APPROVES.
- WHERE WOOD SHEATHING IS APPLIED OVER GYPSUM WALL BOARD SHEATHING (GWB), CONTACT ENGINEER OF RECORD FOR APPROVAL AND ALTERNATE FASTENING REQUIREMENTS.
- AT ADJOINING PANEL EDGES, (2) 2x STUDS NAILED TOGETHER MAY BE USED IN LIEU OF A SINGLE 3x STUD. DOUBLE 2x STUDS MAY BE CONNECTED TOGETHER WITH 3" NAILS OF THE SAME SPACING AND DIAMETER AS THE PLATE NAILING.
- CONTACT ENGINEER OF RECORD FOR ADHESIVE OR EXPANSION BOLT ALTERNATIVES TO CAST-IN-PLACE ANCHOR BOLTS. TYPICALLY SET ADHESIVE WILL BE ALLOWED AS AN ALTERNATE.
- ALL ANCHOR BOLTS SHALL HAVE PLATE WASHER 3"x3"x1/4". PLATE WASHERS TO BE SLOTTED SO WASHERS IS WITHIN 1/2" OF FACE OF SHEATHING.

NO.	DRAWING SUBMITTALS / REVISIONS	DATE
	SUBMIT FOR PERMIT	07-24-2024
	SUBMIT FOR BID	
	SUBMIT FOR CONSTRUCTION	



EXISTING RESIDENCE ADDITION
 4040 97TH AVE SE.,
 MERCER ISLAND, WA 98040

CHECKED: KWC
DATE: 06-30-2024
SHEET NO: S2.5