SHEET INDEX 1. SITE PLAN 2. EXISTING & PROPOSED FLOOR PLAN 3. ROOF FRAMING & FOUNDATION PLANS 4. ELEVATIONS & SECTION 5. BASEMENT FLOOR PROJECT DATA OWNER: CHEEMA ASEEM PROPERTY ADDRESS: 3606 81ST AVE SE, MERCER ISLAND, WA 98040 LOT SIZE: 10,768 SQ FT. ACRES: 0.25 PARCEL NUMBER: 445770-0070

ZONING: R-9.6

1ST FLOOR

1st Floor

Garage

Front: 20'

Energy credit:

less.

Rear: 25'

PLAT BLOCK: 1 PLAT LOT: 7

TOTAL SQ FT: EXISTING

TOTAL FINISHED AREA 2,000

Total Gross SQ FT: proposed

Total gross sqft: 2,420 sf

19.02.020.D): 40% OF LOT AREA:

Side: 17% of 109' = 18.5'- 6' = 12.5'

angle 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

mummumm

max gross floor area (PER

 $10,768 \times .4 = 4,307.2 \text{ SF}$

Setbacks (per 19.02.020.C):

EFFICIENT WATER HEATING 5a:

FINISHED BASEMENT

TOTAL BASEMENT

Finished Basement

Total Finished Area

BASEMENT GARAGE

LEGAL DESCRIPTION: LUCAS HILL ADD

PROJECT TYPE: CARPORT/GARAGE CONVERSION

1,540

1,250

1,540

1,540

340

2,080

340

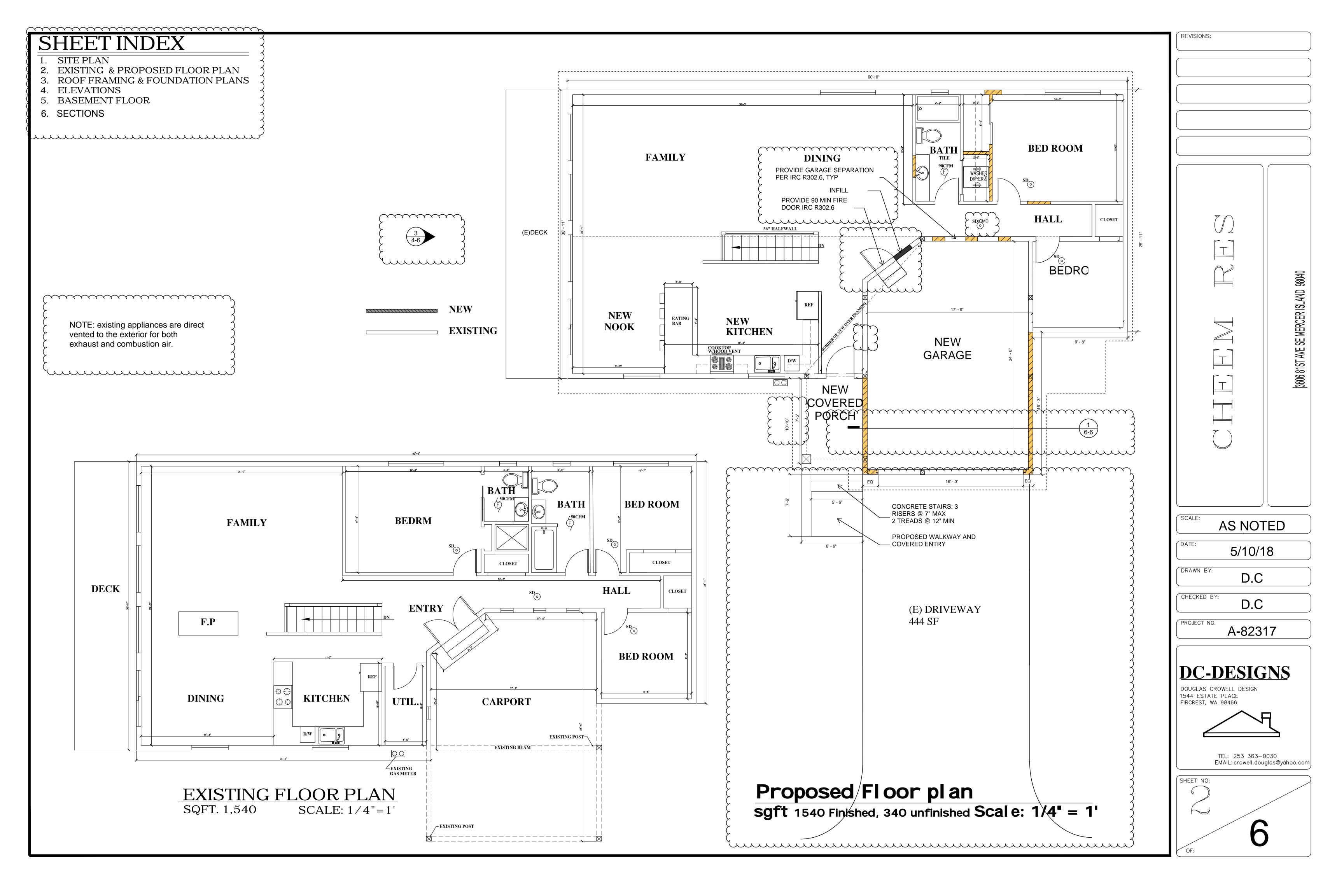
CONSTRUCTION TYPE: SINGLE FAMILY

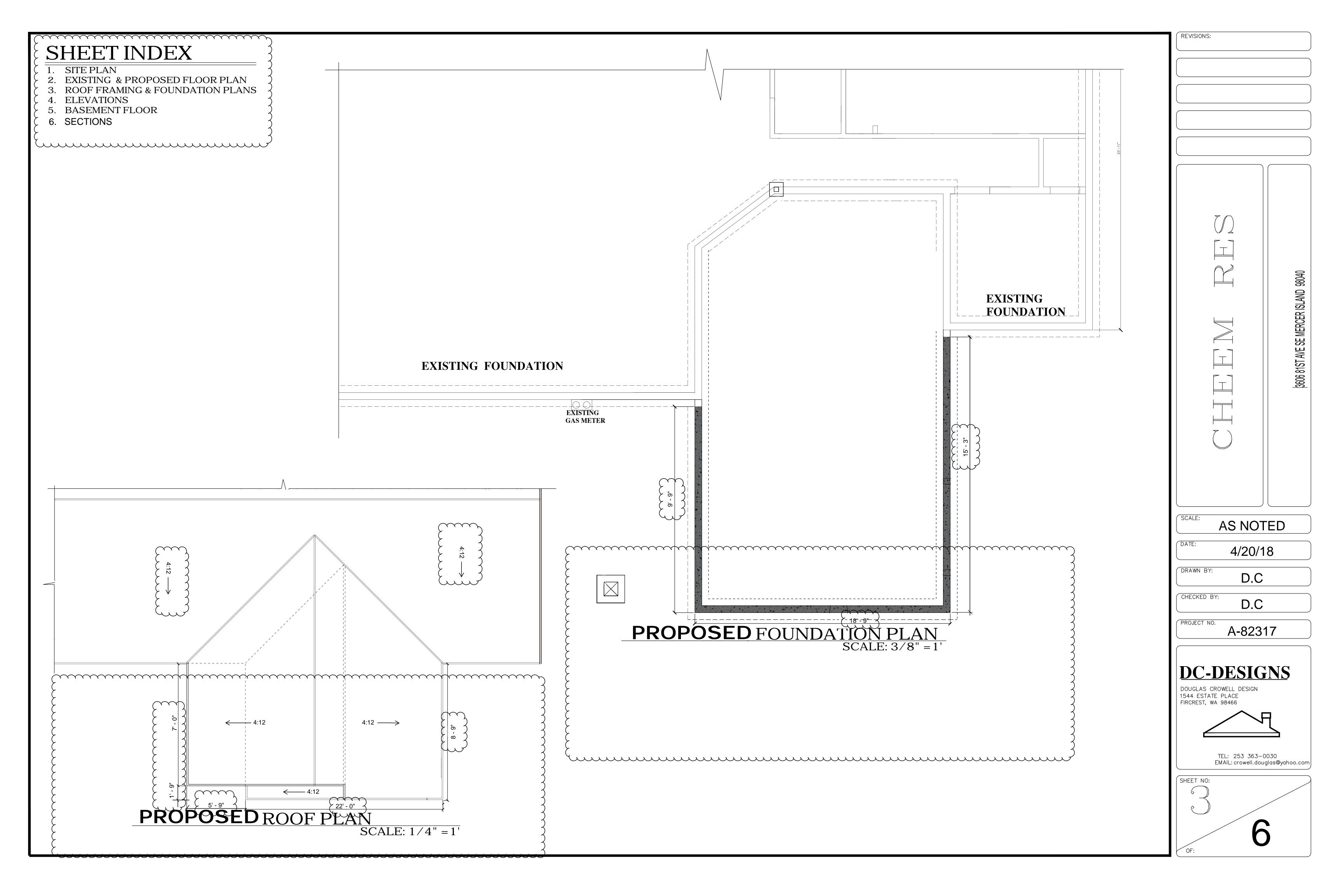


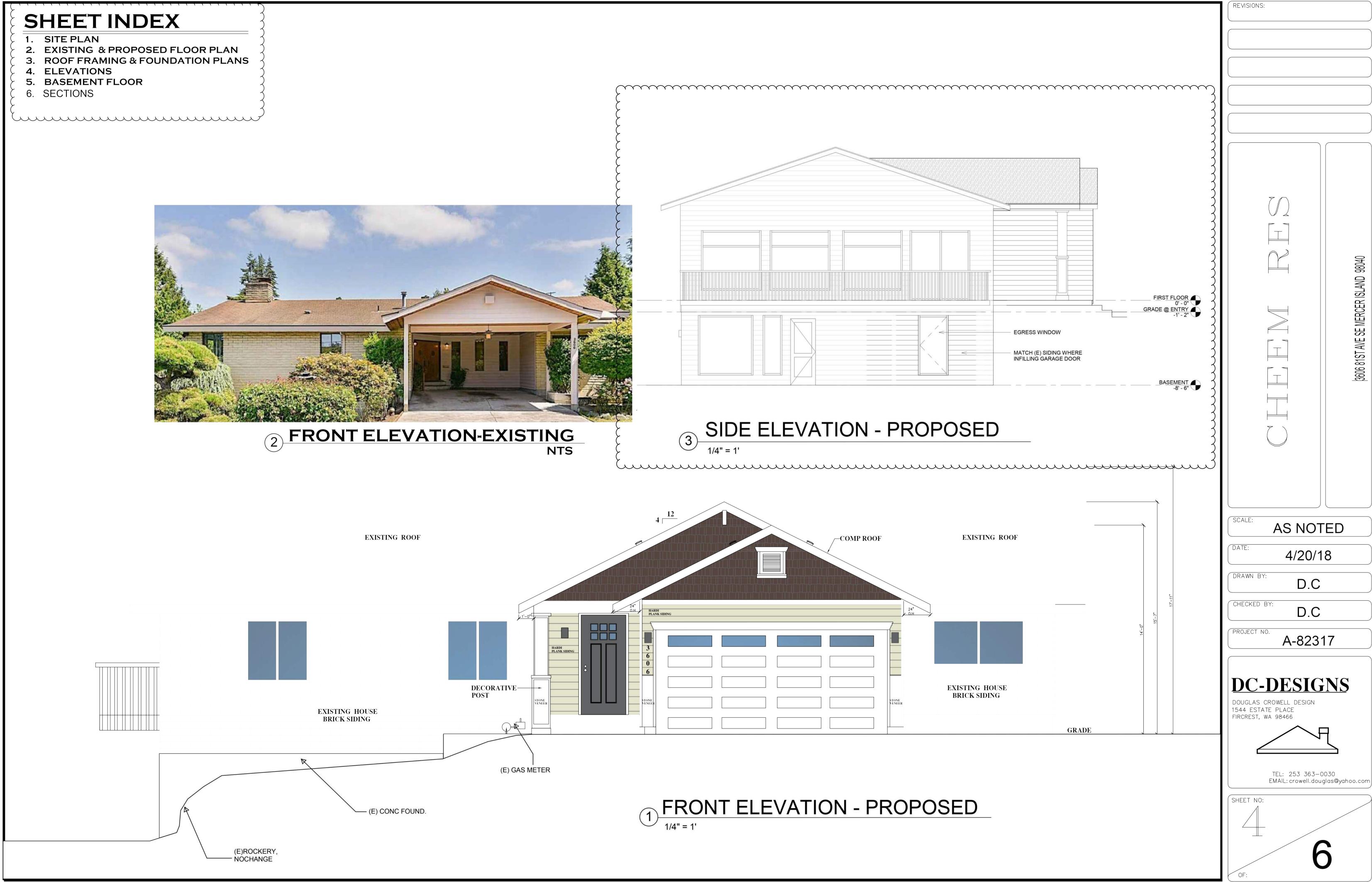
AS NOTED 9/5/17 DRAWN BY: D.C CHECKED BY: D.C PROJECT NO. A-82317 DOUGLAS CROWELL DESIGN 544 ESTATE PLACE FIRCREST, WA 98466 TEL: 253 363-0030 EMAIL: crowell.douglas@yahoo.com SHEET NO:

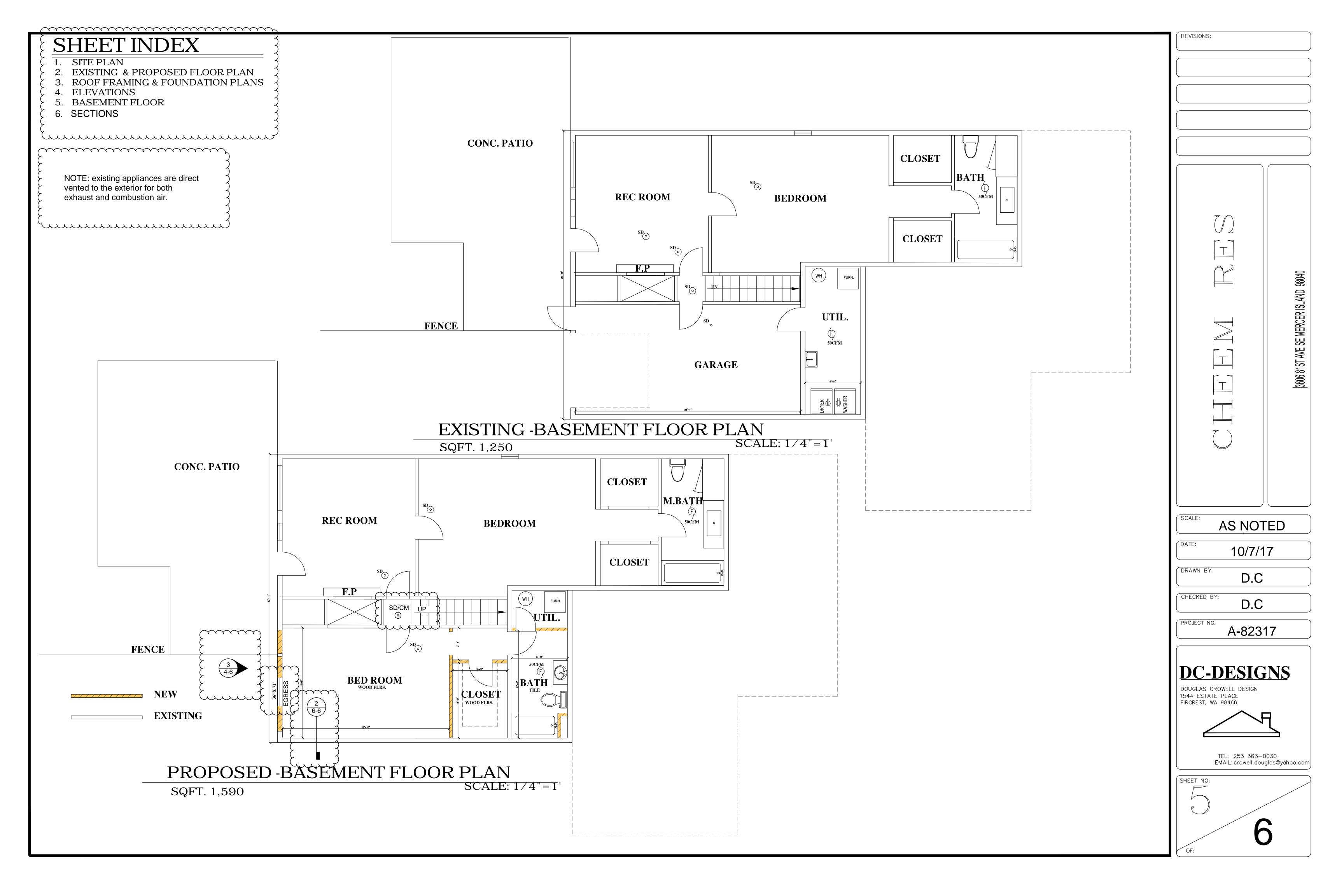
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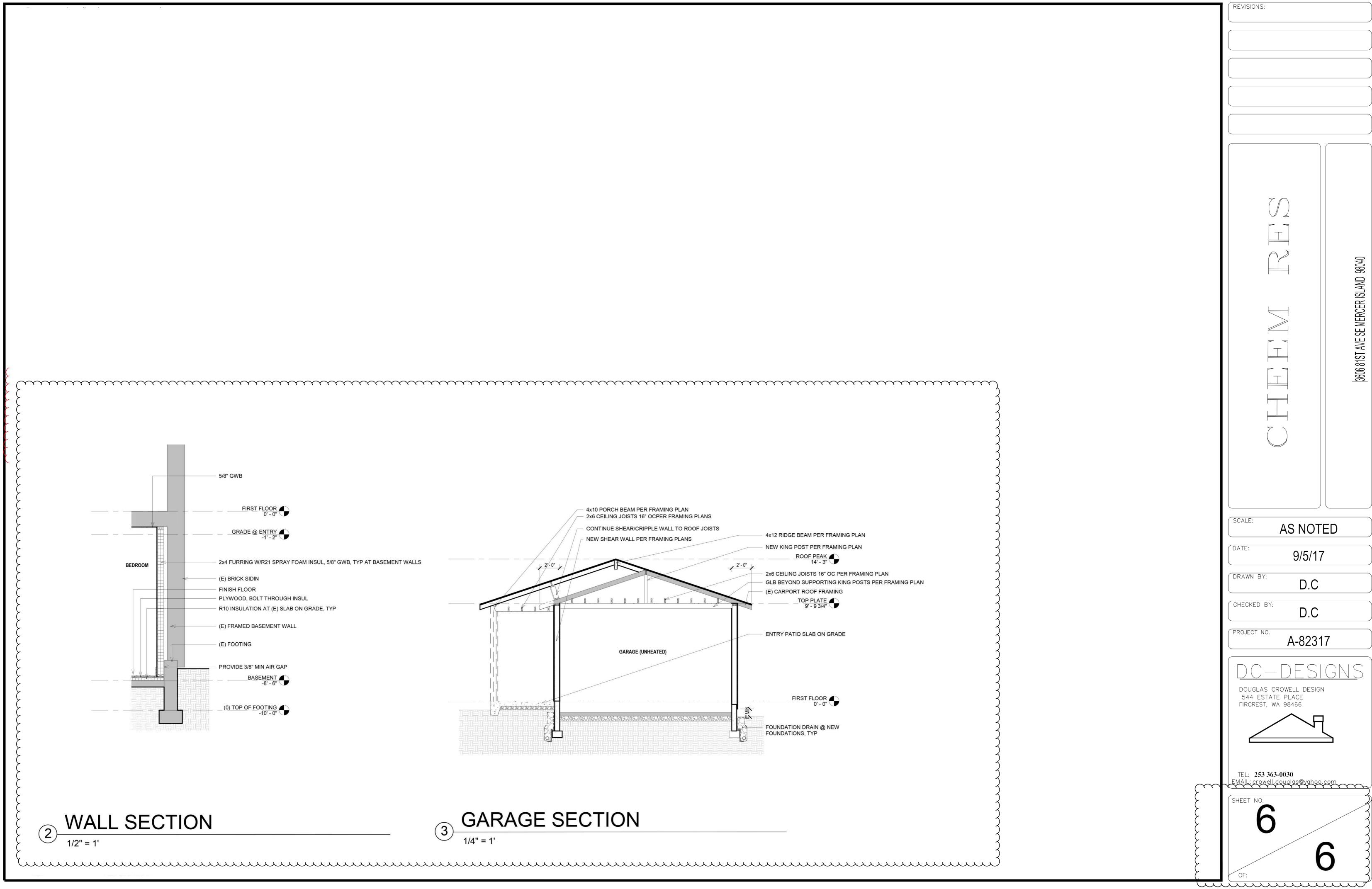
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STRUCTURAL NOTES

ALL MATERIALS. WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS SPECIFICATIONS, AND THE INTERNATIONAL BUILDING CODE (IBC) AS AMENDED BY THE LOCAL JURISDICTION. SPECIFICATIONS AND STANDARDS WHERE REFERENCED ON THE DRAWINGS ARE TO BE THE LATEST EDITION.

LIVE LOADS:

RESIDENTIAL	40 PSF
SNOW	25 PSF
RTHQUAKE LOADS:	
SITE CLASS	
SHORT PERIOD SPECT	TRAL RESPONSE (S_{DS})

0.928 ONE SECOND SPECTRAL RESPONSE (S_{DI}) 0.536 OCCUPANCY CATEGORY SEISMIC IMPORTANCE FACTOR (I_F) 1.00 SEISMIC DESIGN CATEGORY BASIC SEISMIC FORCE-RESISTING-SYSTEM WOOD S.W. RESPONSE MODIFICATION FACTOR, (R) 6.5 0.143 SEISMIC RESPONSE COEFFICIENT (C_S)

WIND LOADS:

ULT. BASIC WIND SPEED (3 SECOND GUST) 110 MPH WIND IMPORTANCE FACTOR (I_W) 1.00 1.00

SPECIAL INSPECTION

SPECIAL INSPECTION SHALL BE PERFORMED PER CHAPTER 17 OF THE IBC FOR THE FOLLOWING ITEMS:

- SOILS (SECTION/TABLE 1705.6)
- CONCRETE (SECTION/TABLE1705.3)

WOOD (SECTION 1705.5)

REFER TO IBC SECTION 1705.10 AND 1705.11 FOR ADDITIONAL INSPECTION REQUIREMENTS FOR THE STRUCTURAL COMPONENTS OF THE LATERAL FORCE RESISTING SYSTEM.

ALL INSPECTIONS SHALL BE PERFORMED BY A QUALIFIED TESTING AGENCY DESIGNATED BY THE OWNER. THE ARCHITECT. ENGINEER. AND BUILDING OFFICIAL SHALL BE FURNISHED WITH COPIES OF ALL INSPECTION REPORTS. IF ANY INSPECTION FAILS TO MEET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, IT SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE DESIGN TEAM.

STRUCTURAL OBSERVATION SHALL BE PERFORMED PER CHAPTER 17 OF THE IBC ONLY WHERE REQUIRED BY THE LOCAL JURISDITION. STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR ANY SPECIAL INSPECTIONS REQUIRED. NOTIFY THE ENGINEER A MINIMUM OF ONE WEEK PRIOR TO THE OBSERVATION.

THE FOLLOWING SOIL DESIGN PARAMETERS HAVE BEEN ASSUMED. IF EXCAVATION SHOWS THAT SOIL CONDITIONS DO NOT MATCH THE LISTED DESIGN VALUES, A GEOTECHNICAL ENGINEER SHALL BE RETAINED TO EVALUATE THE SOIL CONDITIONS. NOTIFY THE ENGINEER FOR POSSIBLE FOUNDATION REDESIGN.

- 1,500 PSF (ALLOWABLE BEARING PRESSURE)
- 35 PCF + SURCHARGE (ACTIVE LATERAL PRESSURE)
- 200 PCF (PASSIVE PRESSURE) • 0.35 (COEFFICIENT OF FRICTION)

FOOTINGS SHALL BEAR ON FIRM UNDISTURBED EARTH OR COMPACTED STRUCTURAL FILL AS REQUIRED BY THE GEOTECHNICAL ENGINEER. FOOTINGS SHALL BE PLACED AT A MINIMUM OF THE FROST DEPTH REQUIRED BY THE LOCAL JURISDICTION. FOOTING ELEVATIONS SHOWN IN THE DRAWINGS REPRESENT MINIMUM DEPTHS AND ARE FOR BIDDING ONLY. FINAL FOUNDATION ELEVATIONS ARE SUBJECT TO SITE CONDITIONS AND SHALL BE ESTABLISHED BY THE CONTRACTOR. FOOTINGS SHALL BE CENTERED BENEATH THE STRUCTURE ABOVE, UNLESS DIMENSIONED OTHERWISE.

THE CONTRACTOR SHALL LOCATE AND PROTECT ALL UTILITIES DURING EXCAVATION, PILE INSTALLATION, AND ANY OTHER CONSTRUCTION EARTHWORK. NOTIFY THE UNDERGROUND UTILITIES LOCATION SERVICE AT LEAST 1 WEEK PRIOR TO CONSTRUCTION AND INDEPENDENTLY VERIFY AL UTILITIES WHICH MAY BE AFFECTED BY THIS PROJECT. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL DAMAGE DAMAGE TO UNDERGROUND UTILITIES RESULTING FROM THEIR WORK.

IMPORTED STRUCTURAL FILL AND BACKFILL MATERIAL SHOULD CONSIST OF CLEAN, WELL GRADED GRANULAR MATERIAL FREE OF DEBRIS OR ORGANICS WITH A MAXIMUM PARTICLE DIAMETER OF THREE INCHES AND NO MORE THAN 10% FINES (PASSING THE #200 SIEVE). FILL AND BACKFILL MATERIAL SHOULD BE PLACED IN LEVEL LIFTS NOT EXCEEDING TWELVE INCHES IN LOOSE THICKNESS AND COMPACTED TO A MINIMUM OF 95% OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557.

BACKFILL BEHIND ALL RETAINING WALLS WITH WELL-DRAINING, GRANULAR FILL AND PROVIDE FOR SUBSURFACE DRAINAGE. PROVIDE WATER PROOFING SYSTEM AT EXTERIOR FACE OF ALL FOUNDATION WALLS EXPOSED TO EARTH PER ARCHITECTURAL SPECIFICATIONS.

ALL CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH ACI 301 "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE" AND ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE". THE CONCRETE SHALL HAVE A UNIT WEIGHT OF APPROXIMATELY 150 PCF. CONCRETE STRENGTHS AT 28 DAYS (f'c) AND MIX CRITERIA SHALL BE AS FOLLOWS:

SLAB-ON-GRADE:

f'c = 2,500 PSI 0.55 W/C RATIO

• FOUNDATION & WALLS: f'c = 2,500 PSI 0.55 W/C RATIO

A CONCRETE MIX DESIGN SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL IF REQUIRED IN THE SUBMITTAL SPECIFICATIONS. THE MIX DESIGN SHALL INCLUDE THE AMOUNTS OF CEMENT, FINE AND COARSE AGGREGATE, WATER, AND ADMIXTURES AS WELL AS THE WATER-CEMENT RATIO, SLUMP, CONCRETE YIELD, AND SUBSTANTIATING STRENGTH DATA IN ACCORDANCE WITH ACI REQUIREMENTS.

ALL CONCRETE EXPOSED TO WEATHER OR TO FREEZING TEMPERATURES SHALL BE AIR-ENTRAINED IN ACCORDANCE WITH ACI TABLE 4.2.1 FOR MODERATE EXPOSURE CONDITION.

BEAM/COLUMN TIES AND STIRRUPS 1 1/2"

MINIMUM CONCRETE COVER ON REINFORCING STEEL SHALL BE AS FOLLOWS:

- CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3" • CONCRETE EXPOSED TO EARTH AND WEATHER:
- #6 BARS AND LARGER #5 BARS AND SMALLER 1 1/2" • CONCRETE NOT EXPOSED TO EARTH OR WEATHER: SLABS, WALLS, AND JOISTS

REINFORCING STEEL SHALL BE DEFORMED BILLET STEEL CONFORMING TO ASTM A615 GRADE 60. REINFORCING BARS INDICATED ON DRAWINGS TO BE WELDED SHALL CONFORM TO ASTM A706. WELDED WIRE REINFORCING SHALL CONFORM TO ASTM A185. PROVIDE WELDED WIRE FABRIC IN SHEETS WITH 12" LAPS AT SIDES AND ENDS.

REINFORCING STEEL SHALL BE DETAILED TO INCLUDE HOOKS AND BENDS IN ACCORDANCE WITH ACI SP-66 AND ACI 318. DEVELOPMENT LENGTHS AND LAP SPLICES SHALL BE PER THE SCHEDULE.

MECHANICAL SPLICING OF REINFORCING BARS, IF REQUIRED, SHALL BE BY AN ICBO APPROVED SYSTEM, AND SHALL DEVELOP 125% OF THE SPECIFIED YIELD STRENGTH OF THE BAR. ALL SPLICE DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

REINFORCING SHALL BE PLACED AND ADEQUATELY SUPPORTED PRIOR TO PLACING CONCRETE. WET-SETTING ITEMS IS NOT ALLOWED WITHOUT PRIOR ENGINEER APPROVAL. BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL NOT BE FIELD BENT UNLESS APPROVED BY THE ENGINEER. REFER TO ACI FOR PLACING TOLERANCES AND OTHER REINFORCING STEEL REQUIREMENTS.

DEVELOPMENT LENGTH AND LAP SPLICE

REINFORCING DEVELOPMENT LENGTHS AND LAP SPLICES SHALL BE AS FOLLOWS. ALL LENGTHS ARE IN INCHES BASED ON GRADE 60 REINFORCING. CONSULT ENGINEER FOR OTHER GRADES OF STEEL. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BAR.

f'c = 2500 PSI				f'c = 3000 PSI				
	_	DPMENT GTH	LAP SPLICE DEVELOPMENT LENGTH		LAP SPLICE			
BAR SIZE	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS
#3	23	18	30	23	22	17	28	22
#4	31	24	41	31	29	22	37	29
#5	39	30	51	39	36	28	47	36
#6	47	36	61	47	43	33	56	43

WALL AND COLUMN VERTICAL BARS SHALL START FROM THE TOP OF FOOTING. HORIZONTAL BARS SHALL START A DISTANCE OF 1/2 THE NORMAL BAR SPACING FROM TOP OF FOOTING AND/OR TOP OF FRAMED SLABS. THERE SHALL BE AN ADDITIONAL HORIZONTAL BAR AT A MAXIMUM OF 3" FROM EVERY TOP OF WALL AND BOTTOM OF FRAMED SLABS.

PROVIDE CORNER BARS TO MATCH AND LAP ALL HORIZONTAL REINFORCING ON EACH SIDE OF THE CORNER PER SCHEDULE OR BEND ONE SIDE OF HORIZONTAL AROUND CORNER TO PROVIDE LAP SPLICE.

PROVIDE CONTROL OR CONSTRUCTION JOINTS IN SLABS ON GRADE TO BREAK UP EACH SLAB INTO RECTANGULAR AREAS OF NOT MORE THAN 400 SQUARE FEET. AREAS SHALL BE AS SQUARE AS PRACTICAL AND HAVE NO ACUTE ANGLES. JOINT LOCATIONS SHALL BE APPROVED BY THE ARCHITECT PRIOR TO PLACEMENT.

ALL CONSTRUCTION JOINTS SHALL BE THOROUGHLY CLEANED AND PROPERLY PREPARED IMMEDIATELY PRIOR TO POURING OF CONCRETE. DOWEL STEEL SHALL BE THE SAME SIZE AND SPACING AS MAIN REINFORCING DETAILED BEYOND JOINT UNLESS NOTED OTHERWISE IN PLAN.

SEE ARCHITECTURAL DRAWINGS AND MECHANICAL DRAWINGS FOR EXACT SIZE AND LOCATION OF OPENINGS IN CONCRETE WALLS, FLOORS, AND ROOF. UNLESS INDICATED OTHERWISE, REINFORCE AROUND OPENINGS GREATER THAN 12" IN ANY DIRECTION WITH (1) #5 EACH SIDE AND (1) #5 x 4'-0" DIAGONAL AT EACH CORNER. EXTEND BARS 2'-0" BEYOND EDGE OF OPENING. IF 2'-0" IS UNAVAILABLE, EXTEND AS FAR AS POSSIBLE AND HOOK. HOOK ALL REINFORCING INTERRUPTED BY OPENINGS.

SEE ARCHITECTURAL DRAWINGS FOR ALL GROOVES, NOTCHES, CHAMFERS, STRIPS, TEXTURE, AND OTHER FINISH DETAILS AT EXPOSED CONCRETE SURFACES. PROVIDE 3/4" CHAMFER AT ALL CORNERS

ALL STRUCTURAL STEEL WORK SHALL BE PERFORMED IN ACCORDANCE WITH AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AND AWS D1.1 "STRUCTURAL WELDING CODE - STEEL". STEEL SHALL BE SHALL BE AS FOLLOWS:

- SHAPES SHALL CONFORM TO ASTM A992, Fy = 50 KSI.
- PLATES, ANGLES, AND RODS SHALL CONFORM TO ASTM A36, Fy = 36 KSI.
- STRUCTURAL TUBING SHALL CONFORM TO ASTM A500 GRADE B, Fy = 46 KSI. STRUCTURAL PIPE SHALL CONFORM TO ASTM A53 GRADE B, Fy = 35 KSI.
- BOLTS SHALL CONFORM TO ASTM A325-N (USE 5/8"Ø MINIMUM UNO) • ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 GRADE 36, Fy = 36 KSI.
- ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS IN ACCORDANCE WITH AWS AND WABO REQUIREMENTS. USE 70 KSI LOW HYDROGEN ELECTRODES APPROPRIATE FOR THE MATERIALS BEING WELDED. IF NOT SPECIFIED, MINIMUM WELD SIZE SHALL BE PER AWS D1.1. WELDING OF REINFORCING BARS SHALL NOT BE PERMITTED UNLESS SPECIFICALLY CALLED OUT ON DRAWINGS.

ALL STEEL EXPOSED TO WEATHER SHALL BE FABRICATED IN ACCORDANCE WITH ASTM A385 AND HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A123. FASTENERS AND HARDWARE SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A153. ALL DAMAGED GALVANIZED COATINGS SHALL BE REPAIRED IN ACCORDANCE WITH ASTM A780 WITH AN APPLIED COATING THICKNESS DETERMINED BY

THE ENGINEER.

ALL WOOD FRAMING SHALL BE PERFORMED IN ACCORDANCE WITH IBC CHAPTER 23, ANSI/AWC "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION". AND AITC "TIMBER CONSTRUCTION

SAWN LUMBER SHALL BE IDENTIFIED BY THE GRADE MARK OF AN AGENCY APPROVED BY AN ACCREDITATION BODY COMPLIANT WITH DOC PS 20. ALL GRADES SPECIFIED IN THE STRUCTURAL DRAWINGS ARE MINIMUM STANDARDS AND SHALL BE AS FOLLOWS:

 STUDS, PLATES, AND BLOCKING HEM-FIR STUD GRADE JOISTS DOUG-FIR #2

• 4x OR SMALLER BEAMS AND HEADERS DOUG-FIR #2 • 6x OR LARGER BEAMS AND HEADERS DOUG-FIR #1 POSTS AND TIMBERS DOUG-FIR #2

WOOD FRAMING SHALL BE KILN-DRIED TO A MAXIMUM MOISTURE CONTENT OF 19%. ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY, OR EXPOSED TO EARTH OR WEATHER SHALL BE PRESSURE TREATED IN ACCORDANCE WITH AWPA STANDARD U1 AND M4 FOR THE SPECIES, PRODUCT, PRESERVATIVE, AND END USE REQUIRED.

GLUED LAMINATED TIMBER SHALL BE MANUFACTURED AND IDENTIFIED IN CONFORMANCE WITH ANSI/AITC A190.1 AND ASTM D3737. UNLESS OTHERWISE SPECIFIED, ALL GLUED LAMINATED TIMBERS SHALL BE DOUGLAS FIR SPECIES. SINGLE SPAN BEAMS SHALL BE COMBINATION 24F-V4 AND MULTI-SPAN BEAMS OR BEAMS THAT CANTILEVER SHALL BE COMBINATION 24F-V8. ALL EXPOSED GLULAMS SHALL HAVE AN ADDITIONAL TENSION LAMINATION SUBSTITUTED FOR A CORE LAMINATION ON THE TENSION SIDE OF UNBALANCED 24F-V4 BEAMS AND ON BOTH SIDES OF BALANCED 24F-V8 BEAMS.

STRUCTURAL WOOD PANEL SHEATHING USED ON WALLS, FLOORS, OR ROOFS SHALL CONFORM TO THEIR SPECIFIC REQUIREMENTS IN DOC PS 1, DOC PS 2, OR ANSI/APA PRP 210. PLYWOOD SHALL BE GRADE C-D WITH EXTERIOR GLUE. REFER TO IBC SECTIONS 2303.1.4, 2304.6, AND 2304.7 FOR ADDITIONAL COMPLIANCE REQUIREMENTS.

PRE-MANUFACTURED JOISTS, BEAMS, AND TRUSSES

PRE-MANUFACTURED JOISTS, BEAMS, AND TRUSSES SHALL BE SIZED, SPACED, AND DETAILED TO MATCH THE LOADING AND DIMENSIONAL REQUIREMENTS INDICATED ON THE STRUCTURAL DRAWINGS. TRUSSES SHALL COMPLY WITH IBC 2303.4, I-JOISTS SHALL COMPLY WITH IBC 2303.1.2, AND COMPOSITE BEAMS SHALL COMPLY WITH 2303.1.9. THE MANUFACTURER'S DESIGNER IS RESPONSIBLE FOR CODE COMPLIANCE AND SHALL PROVIDE SHOP DRAWING AND CALCULATION SUBMITTALS AS SPECIFIED. ENGINEER AND BUILDING OFFICIAL APPROVAL IS REQUIRED PRIOR TO FABRICATION OF PRE-MANUFACTURED COMPONENTS.

REFER TO THE DESIGN LOADS FOR BASIC STRUCTURAL LOADING REQUIREMENTS. REFER TO THE ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS FOR ADDITIONAL LOADING AND OPENING REQUIREMENTS NOT SPECIFICALLY NOTED ON THE STRUCTURAL DRAWINGS. DEFLECTIONS SHALL NOT EXCEED L/480 FOR LIVE LOADS OR L/360 FOR TOTAL LOADS UNLESS APPROVED IN WRITING BY THE ENGINEER. ALL TRUSSES WITH A DEPTH EQUAL TO OR GREATER THAN 24" SHALL BE DESIGNED FOR A BOTTOM CHORD LIVE LOAD OF 10PSF, NOT APPLIED CONCURRENT WITH THE TOP CHORD LIVE LOAD.

PROVIDE TEMPORARY BRACING UNTIL SHEATHING AND PERMANENT BRACING IS INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. THE MANUFACTURER SHALL PROVIDE ALL SPECIALTY ITEMS REQUIRED FOR A COMPLETE INSTALLATION OF THE SYSTEM (INCLUDING BUT NOT LIMITED TO FULL DEPTH BRIDGING, BLOCKING, WEB STIFFENERS, AND PRODUCT SPECIFIC

NAILS, SCREWS, BOLTS, AND CONNECTORS

REFER TO THE PLANS, NOTES, SCHEDULES, AND DETAILS FOR ALL NAILING REQUIREMENTS. NAILING NOT SPECIFIED SHALL BE PER IBC TABLE 2304.9.1. ALL NAILS SHALL CONFORM TO THE STANDARD DIMENSIONS OF COMMON NAILS AS DEFINED BY THE NDS AND SHALL MEET THE FOLLOWING MINIMUM GUIDELINES:

- $8d = 0.131"\emptyset \times 2 1/2"$
- 10d = 0.148"Ø X 3"
- $16d = 0.162"\emptyset \times 3 1/2"$

10d BOX NAILS (0.128"Ø x 3") MAY BE SUBSTITUTED FOR 8d COMMON NAILS WITH NO CHANGE IN NAIL SPACING. FRAMING MEMBERS MAY BE NAILED WITH 16d SINKERS (0.148"Ø x 3 1/4"), BUT ONLY 16d COMMON NAILS SHALL BE USED WHERE 16d NAILS ARE INDICATED IN THE DRAWINGS. OTHER NAILS MAY BE SUBSTITUTED ONLY WITH THE ENGINEER'S APPROVAL PRIOR TO START OF CONSTRUCTION.

ALL LAG SCREWS AND BOLTS IN WOOD MEMBERS SHALL CONFORM TO ASTM A307. PROVIDE STANDARD CUT WASHERS UNDER THE HEADS AND NUTS OF ALL LAG SCREWS AND BOLTS BEARING ON WOOD. LEAD HOLES FOR BOLTS SHALL BE PROVIDED AND SHALL BE A MINIMUM OF 1/32" AND A MAXIMUM OF 1/16" LARGER THAN THE BOLT DIAMETER. LEAD HOLES FOR LAG SCREW SHANK AND THREADS SHALL BE PER NDS 11.1.4.2.

ALL WOOD CONNECTORS SHALL BE SIMPSON STRONG-TIE OR ENGINEER APPROVED EQUIVALENT. CONNECTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS USING THEIR SPECIFIED NUMBER AND SIZE OF FASTENERS. IF STRAPS CONNECT TWO MEMBERS, PLACE 1/2 OF THE NAILS, SCREWS, OR BOLTS INTO EACH MEMBER.

ALL NAILS, SCREWS, BOLTS, AND METAL CONNECTORS IN CONTACT WITH PRESSURE TREATED OR FIRE RETARDANT TREATED WOOD SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A153.

SILL PLATES BEARING ON CONCRETE FOUNDATIONS SHALL BE PRESSURE TREATED AND SHALL ATTACH TO THE CONCRETE WITH 1/2"Ø ANCHOR BOLTS EMBEDDED 7" MINIMUM. PLACE ANCHORS AT 4'-0" OC MAXIMUM FOR SHEAR WALLS AND AT 6'-0" OC FOR BEARING AND PARTITION WALLS. USE A MINIMUM OF (2) ANCHOR BOLTS PER SILL PLATE AND PLACE ONE WITHIN 12" OF EACH END OF EACH PIECE. REFER TO THE SHEAR WALL SCHEDULE FOR MORE STRINGENT ANCHORAGE SIZE AND SPACING REQUIREMENTS. CONTRACTOR SHALL INSTALL 3 GAUGE PLATE WASHERS BENEATH EACH NUT AT EACH ANCHOR BOLT IN A SHEAR WALL THAT EXTEND TO WITHIN 1/2" OF SHEATHED EDGE.

ALL SHEAR AND/OR BEARING WALLS SHALL BE FRAMED WITH 2x STUDS @ 16" OC. REFER TO PLAN NOTES FOR TYPICAL HEADER SIZES NOT SPECIFICALLY CALLED OUT. ALL HEADERS SHALL BE SUPPORTED BY A MINIMUM OF (1) CRIPPLE AND (1) FULL HEIGHT STUD. COLUMNS BELOW FLUSH FRAMED MULTIPLE JOIST BEAMS SHALL BE EQUAL IN WIDTH TO THE BEAM. ALL COLUMNS NOT CALLED OUT SHALL BE (2) STUDS. BEAMS SHALL HAVE FULL BEARING ON COLUMNS AND POSITIVE CONNECTION SHALL BE

PROVIDE SOLID BLOCKING BETWEEN JOISTS AND RAFTERS AT ALL SUPPORTS. AT 8'-0" OC MAXIMUM SPACING BETWEEN SUPPORTS, AND BENEATH PARTITIONS PERPENDICULAR TO THE DIRECTION OF

MINIMUM NAILING REQUIREMENTS SHALL BE PER IBC TABLE 2304.9.1. THE USE OF NAIL GUNS IS APPROVED IF NAILING INTO THE DIAPHRAGMS IS FLUSH WITH FACE OF SHEATHING. NAIL PENETRATIONS GREATER THAN 1/16" ARE NOT ACCEPTABLE.

NOTCHES AND HOLES IN WALL STUDS ARE ALLOWED WITHIN THE PARAMETERS OF IBC SECTIONS

2308.9.10 AND 2308.9.11. NOTCHES AND HOLES IN JOISTS AND RAFTERS ARE ALLOWED WITHIN THE PARAMETERS OF IBC SECTIONS 2308.8.2 AND 2308.10.4.2. VERTICAL SHRINKAGE WILL OCCUR AND ACCUMULATE AT EACH LEVEL FROM THE WOOD DRYING OVER

TIME. THIS IS ESTIMATED TO BE APPROXIMATELY 0.15" PER FLOOR AND ASSUMES THE WOOD HAS AN INITIAL MOISTURE CONTENT OF 19% OR LESS. ADDITIONAL SHRINKAGE WILL OCCUR IF THE MOISTURE CONTENT IS HIGHER. THE CONTRACTOR SHALL ALLOW FOR THIS MOVEMENT IN THEIR INSTALLATION OF ALL VERTICAL ASSEMBLIES INCLUDING BUT NOT LIMITED TO PLUMBING. ELECTRICAL. MECHANICAL. AND ARCHITECTURAL SYSTEMS.

STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, CIVIL, ELECTRICAL, AND MECHANICAL DRAWINGS FOR BIDDING AND CONSTRUCTION. REFER TO THE ARCHITECTURAL DRAWINGS FOR ELEVATIONS, SLOPES, NON-BEARING WALLS, STAIRS, CURBS, DRAINS, RAILINGS, WATERPROOFING, FINISHES, ETC. REFER TO THE ARCHITECTURAL, CIVIL, ELECTRICAL, AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF PIPES, VENTS, DUCTS, AND OTHER OPENINGS NOT SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS.

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND FIELD CONDITIONS FOR COMPATIBILITY WITH THE PLANS, SPECIFICATIONS, AND REFERENCED STANDARDS BEFORE PROCEEDING WITH ANY WORK. THE MOST STRINGENT REQUIREMENT SHALL GOVERN ANY CONFLICT UNLESS APPROVED IN WRITING OTHERWISE. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN TEAM BEFORE PROCEEDING.

CONTRACTOR SHALL BE RESPONSIBLE FOR STRENGTH AND STABILITY OF ANY PARTLY COMPLETED STRUCTURE. CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SITE SAFETY AND SHALL PROVIDE TEMPORARY SHORING AND SUPPORT AS REQUIRED UNTIL THE STRUCTURE HAS BEEN COMPLETED.

CONTRACTOR INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE DESIGN TEAM FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES ON SHOP DRAWINGS DO NOT SATISFY THIS REQUIREMENT. REVIEW OF ALTERNATE SYSTEMS MAY BE AN ADDITIONAL SERVICE BY THE ENGINEER.

DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF A SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO REVIEW AND APPROVAL BY THE DESIGN TEAM.

LEGEND			
DEFINITION	SYMBOL	DEFINITION	SYMBOL
DIRECTION OF FRAMING	4	NATIVE SOIL	
EXTENT OF FRAMING	\longleftrightarrow	GRANULAR FILL	
COLUMNS		STRUCTURAL STEEL	<i>\$11111111</i>
COLUMN BEARING ON BEAM	(A)	RATED SHEATHING	\(\tag{111}
BEAM CONTINUOUS OVER SUPPORT	Ch	SHEAR WALL (SEE SCHEDULE)	SWX
CONCRETE WALL	5	COLUMN MARK (SEE SCHEDULE)	CX.
BEARING STUD WALL	5	FOOTING MARK (SEE SCHEDULE)	FX
NON-BEARING STUD WALL	5	HOLDOWN MARK (SEE SCHEDULE)	♦
BEARING STUD SHEAR WALL	\$MMMAS	HANGER MARK (SEE SCHEDULE)	\propto
NON-BEARING STUD SHEAR WALL	5////	FLAG NOTE (SEE PLAN NOTES)	
CMU WALL		STEEL MOMENT FRAME CONN.	-

	ABBREV	IATIONS	
(A)	ABOVE	GLB	GLUE-LAMINATED BEAM
AB	ANCHOR BOLT	HORIZ	HORIZONTAL
ALT	ALTERNATE	KP	KING POST
ARCH	ARCHITECT	KSI	KIPS PER SQUARE INCH
(B)	BELOW	L	ANGLE
BD	BAR DIAMETER	MECH	MECHANICAL
BLKG	BLOCKING	MF	MOMENT FRAME
ВМ	BEAM	MTL	METAL
ВОТ	ВОТТОМ	NS	NEAR SIDE
BRNG	BEARING	ОС	ON CENTER
BTWN	BETWEEN	OPP	OPPOSITE
CJP	COMPLETE JOINT PENETRATION	PL	PLATE
CLR	CLEAR	PLCS	PLACES
СМИ	CONCRETE MASONRY UNIT	PSI	POUNDS PER SQUARE INCH
COL	COLUMN	PSF	POUNDS PER SQUARE FOOT
CONC	CONCRETE	P/T	POST TENSIONED
CONN	CONNECTION	PT	PRESSURE TREATED
CONT	CONTINUOUS	REINF	REINFORCING
COORD	COORDINATE	REQ'D	REQUIRED
DBL	DOUBLE	SCHED	SCHEDULE
DET	DETAIL	SIM	SIMILAR
DIA	DIAMETER	SOG	SLAB ON GRADE
DIM	DIMENSION	STD	STANDARD
DIR	DIRECTION	STIFF	STIFFENER
EA	EACH	STL	STEEL
ELEV	ELEVATION	SYMM	SYMMETRICAL
ES	EACH SIDE	SW	SHEARWALL
EX	EXISTING	TOC	TOP OF CONCRETE
EXP	EXPANSION	TOS	TOP OF STEEL
FLR	FLOOR	TOW	TOP OF WALL
FDN	FOUNDATION	TYP	TYPICAL
FTG	FOOTING	UNO	UNLESS NOTED OTHERWISE
FS	FAR SIDE	VERT	VERTICAL
GC	GENERAL CONTRACTOR	WF	WIDE FLANGE



REV.	DATE	DESCRIPTION
0	09/02/20	PERMIT RESUBMITTAL
PROJECT NO.:		18041.02

CHECKED BY: SHEET TITLE:

DESIGNED BY:

DRAWN BY:

STRUCTURAL

SHEET NO.:

JMD

SHEAR WALL SCHEDULE	FOUNDATION PLAN NOTES: 1. PLACE ALL REINFORCING STEEL, ANCHOR BOLTS, AND HOLDOWNS PER THE STRUCTURAL NOTES AND SCHEDULES ON THE S1 SHEETS AND THE FOUNDATION DETAILS ON THE S3 SHEETS. REFER TO		
TYPE APA-RATED SHEATHING PANEL EDGES NAILING AT PANEL EDGES PANEL	THE FRAMING PLANS FOR LOCATION OF SHEAR WALLS. 2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, WALL LOCATIONS, UTILITY PLACEMENT, AND CONCRETE ROUGH OPENINGS WITH THE ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION AND NOTIFY ALL PARTIES OF ANY DISCREPANCIES. 3. EXTERIOR FOOTINGS SHALL BEAR ON FIRM NATIVE SOIL OR COMPACTED STRUCTURAL FILL A MINIMUM OF 1'-6" BELOW GRADE. REFER TO THE STRUCTURAL NOTES FOR ADDITIONAL SUBGRADE PREPARATION REQUIREMENTS AND FOR CONDITIONS REQUIRING STRUCTURAL FILL. 4. SLAB ON GRADE SHALL BE A MINIMUM OF 4" THICK w/ 6x6 - W1.4xW1.4 WELDED WIRE FABRIC		
NOTES: 1. REFER TO THE SHEAR WALL DETAIL IN THE TYPICAL WOOD FRAMING DETAILS. 2. THE VALUES IN THIS TABLE ARE BASED ON HF GRADE STUDS AND HF GRADE PLATES & RIM/BLOCKING. 3. NAILS AT ADJOINING PANEL EDGES SHALL BE STAGGERED EACH SIDE OF THE COMMON JOINT. 4. INTERMEDIATE FRAMING TO BE WITH 2x MINIMUM MEMBERS. FIELD NAILING 12" OC MAXIMUM. 5. AT ALL SILL PLATE ANCHOR BOLTS IN 2x6 WALLS, INSTALL 3 GA x 3" x 4 1/2" PLATE WASHERS WITH THE EDGE OF PLATE WASHER WITHIN 1/2" OF SHEATHED EDGE. FOR 2x4 STUD WALLS, INSTALL 3 GA. x 3" x 3" PLATE WASHERS. 6. PROVIDE A MINIMUM OF 7" EMBEDMENT FOR AB INTO FOUNDATION OR STEM WALL. 7. 7/16" SHEATHING MAY BE USED IN PLACE OF 15/32" SHEATHING PROVIDED ALL STUDS ARE SPACED 16" OC OR PANELS ARE APPLIED WITH LONG DIMENSION ACROSS STUDS.	REINFORCING. PROVIDE 2" MINIMUM CLEARANCE FROM WWF TO BOTTOM OF SLAB. SLABS SHALL BE PLACED OVER A 10 MIL VAPOR BARRIER ATOP RIGID INSULATION PER ARCH OVER 4" OF SUITABLE DRAINING SUBGRADE MATERIAL. 5. T.O. FTG AND T.O. WALL ELEVATIONS ARE FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING FINAL FOOTING ELEVATIONS BASED ON FIELD CONDITIONS & FOR COORDINATING TOW & TOF ELEV W ARCH DRAWINGS. 6. CONTROL JOINTS ARE REQUIRED IN THE SLAB ON GRADE. REFER TO THE TYPICAL SLAB ON GRADE DETAILS FOR CONSTRUCTION REQUIREMENTS. ALL JOINT LOCATIONS SHALL BE APPROVED BY THE ENGINEER AND ARCHITECT PRIOR TO PLACING CONCRETE. 7. ALL CONTINUOUS FOOTING REINFORCING SHALL BE PLACED THRU SPREAD FOOTINGS IF APPLICABLE. PROVIDE CORNER, HOOKED, OR BENT BARS MATCHING FOOTING REINFORCING AT ALL INTERSECTIONS AND CHANGES IN FOOTING DIRECTION. INTERSECTIONS AND CHANGES IN FOOTING DIRECTION. PRINCIPAL CONTINUOUS FOOTING DIRECTION.		
	FOUNDATION PLAN FLAG NOTES: DOWEL HORIZ REINF FROM FOOTINGS AND STEM WALLS 3" INTO EXISTING CONCRETE. USE HILTI HIT-RE500V3 EPOXY OR EQUAL		
	EXIST 4" SLAB ON GRADE 1'-0" WIDE x 8" DEEP CONT FTG W(2) #4 BOT, TYP UNO 5		
ROOF FRAMING PLAN NOTES: 1. REFER TO THE STRUCTURAL NOTES AND SCHEDULES ON THE \$1 SHEETS AND TO THE TYPICAL WOOD FRAMING DETAILS ON THE \$4 SHEETS FOR FRAMING REQUIREMENTS NOT SPECIFICALLY SHOWN ON THE ROOF FRAMING PLAN OR IN THESE PLAN NOTES. 2. ROOF SHEATHING SHALL BE 1/2" MINIMUM WITH A 32/16 SPAN RATING. ATTACH TO FRAMING BELOW WITH 80 NAILS SPACED AT 6" OC AT ALL DIAPHRAGM BOUNDARIES, PANEL EDGES, SHEAR WALLS, AND COLLECTOR ELEMENTS INDICATED ON PLANS. NAILING AT INTERMEDIATE FRAMING SHALL BE 88 NAILS SPACED AT 12" OC. REFER TO TYPICAL FRAMING DETAILS FOR SHEATHING LAYOUT. ROOF SHEATHING IS UNBLOCKED UNO ON PLAN. 3. WALL STUD FRAMING SHALL BE AS FOLLOWS: • 2x6 HF STUD @ 16" OC FOR INTERIOR WALLS AND INTERIOR 6" BEARING WALLS. • 2x4 HF STUD @ 16" OC FOR INTERIOR WALLS. • 2x4 HF STUD @ 16" OC FOR INTERIOR WON-BEARING WALLS. • 2x4 HF STUD @ 16" OC FOR INTERIOR NON-BEARING WALLS. • 2x4 HF STUD @ 16" OC FOR INTERIOR NON-BEARING WALLS. • 2x4 HF STUD @ 16" OC FOR INTERIOR NON-BEARING WALLS. • 2x4 HF STUD @ 16" OC FOR INTERIOR NON-BEARING WALLS. • 2x4 HF STUD @ 16" OC FOR INTERIOR NON-BEARING WALLS. • 2x4 HF STUD @ 16" OC FOR INTERIOR NON-BEARING WALLS. • 2x4 HF STUD @ 16" OC FOR INTERIOR NON-BEARING WALLS. • 2x4 HF STUD @ 16" OC FOR INTERIOR NON-BEARING WALLS. • 2x4 HF STUD @ 16" OC FOR INTERIOR NON-BEARING WALLS. • 2x4 HF STUD @ 16" OC FOR INTERIOR NON-BEARING WALLS. • 2x4 HF STUD @ 16" OC FOR INTERIOR NON-BEARING WALLS. • 2x4 HF STUD @ 16" OC FOR INTERIOR NON-BEARING WALLS. • 2x4 HF STUD @ 16" OC FOR INTERIOR NON-BEARING WALLS. • 2x4 HF STUD @ 16" OC FOR INTERIOR NON-BEARING WALLS. • 2x4 HF STUD @ 16" OC FOR INTERIOR NON-BEARING WALLS. • 2x4 HF STUD @ 16" OC FOR INTERIOR NON-BEARING WALLS. • 2x4 HF STUD @ 16" OC FOR INTERIOR NON-BEARING WALLS. • 2x5 HF STUD @ 16" OC FOR INTERIOR NON-BEARING WALLS. • 2x6 HF STUD @ 16" OC FOR INTERIOR NON-BEARING WALLS. • 2x6 HF STUD @ 16" OC FOR INTERIOR NON-BEARING WALLS. • 2x6 HF STUD @ 16" OC FOR INTERIOR NON-BEARING WALLS. • 2x6 HF STUD @ 16" OC FO	2-0" x2-0" x1-0" DEEP PT 2x8 HF#2 FT W(2) #4 EA WAY BOT. PPOVIDE ABA42 POST BASE. REFER TO 9:83.1 HUC48 EA END. USE 3:16" x 2 1:4" TAPCON ANCHORS AT STEM ANCHORS AT STEM DETAIL 2:54.2 PROVIDE IBC COMPLIANT LANDING AT BOT OF STAIRS 10" FOUNDATION PLAN FOUNDATION PLAN SCALE: 1:4" = 1'-0"		
Ax4 DF#2 KING POST W/ AC4 POST CAP AND AC4 POST BASE AT GLB BELOW. ADD 2x FILLER @ RIDGE BOARD EX ROOF FRAMING ATTACH EXISTING DOUBLE TOP PLATE TO NEW WITH LSTA24	PROPOSED RIDGE BEAM OVER FRAMING NEW PT 4x10 PORCH BEAM PORCH BEAM NEW SHEAR PONY WALL NEW SHEAR WALL NEW SHEAR WALL		
	OC, TYP		
	24F-V4 DF GLB (DROPPED) ADD BM/CRIPPLE WALL @ ROOF JOIST MID SPAN EX FRAMING EX FRAMING NEW HEADER PER PLAN NEW HEADER PER PLAN NEW 3 1/2" x 13 1/2" GLB EX STUDS		
(2) LOAD BE	B 1/2" 24F-V4 DF GLB W/ BEARING STUDS EA BEAM. EXTEND BEAM LLS PER DETAIL 1/S4.2. SEE DETAIL 1/S4.2. SEE DETAIL 1/S4.2. SEE DETAIL 1/S4.2. SCALE: 1/4" = 1'-0"		

IDE WAY ENGINEERING (425) 673-4160

HEEMA RESIDENCE 3606 81ST AVENUE SE MERCER ISLAND, WA 98040



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PRO	JECT NO.:	18041.02
DESIGNED BY:		JMD
DRAWN BY:		JMD
CHE	CKED BY:	CAB

SHEET TITLE:
FRAMING
PLANS
SHEET NO.:

\$2.1

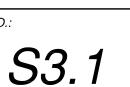
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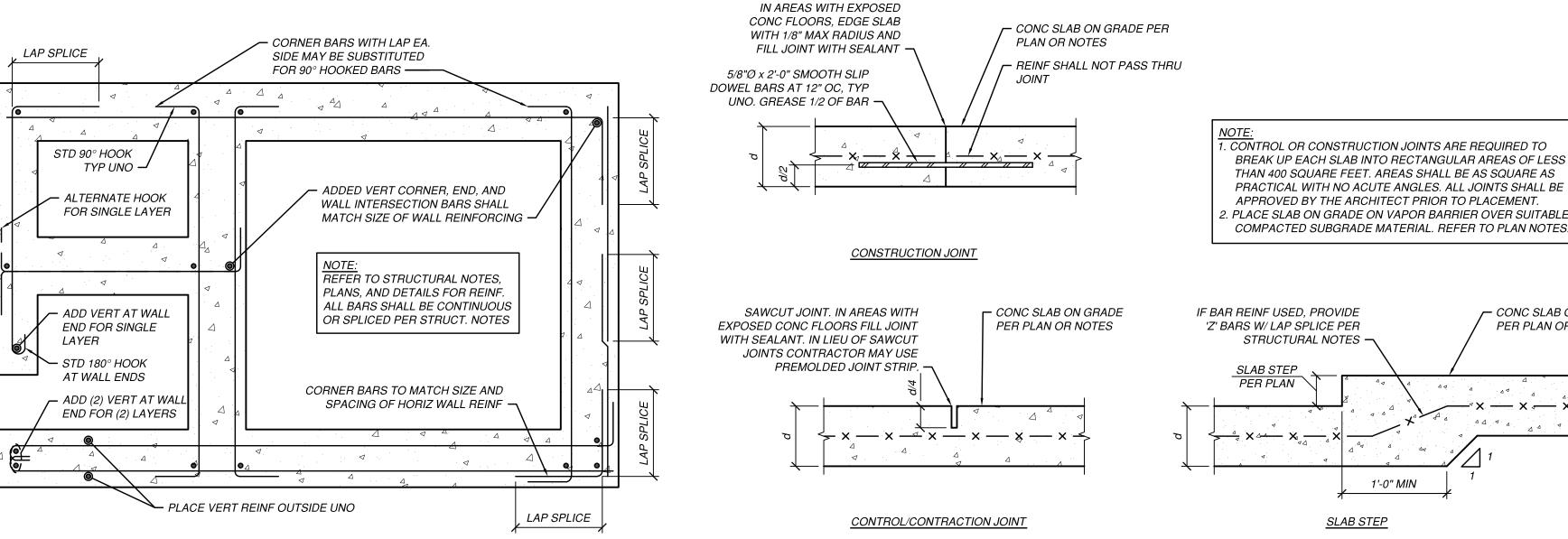
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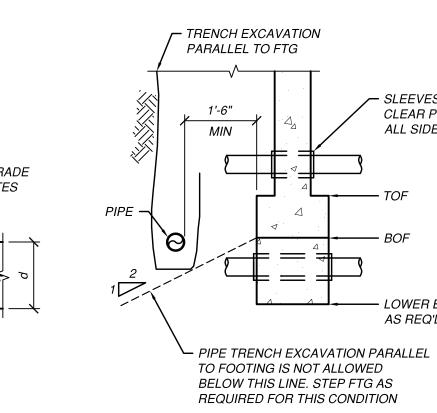
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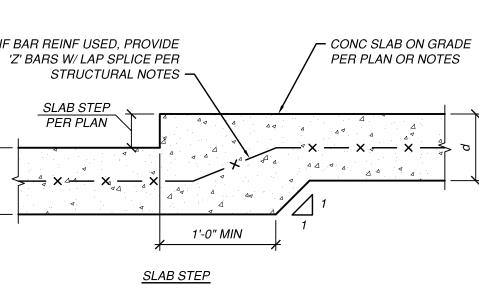
FOUNDATION DETAILS

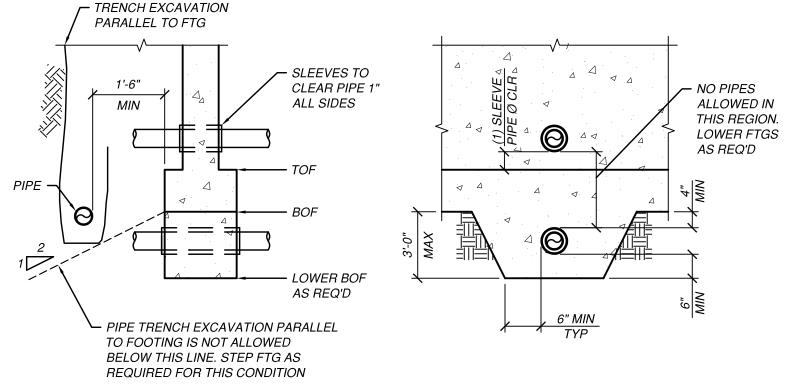
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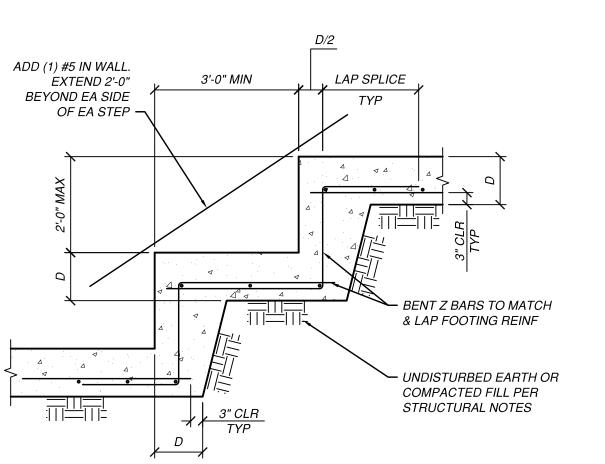






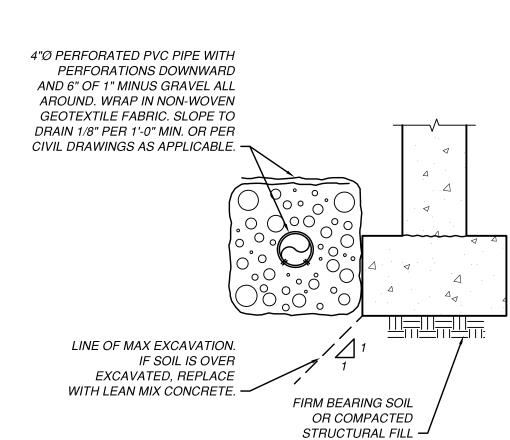
TYPICAL SLAB ON GRADE DETAILS

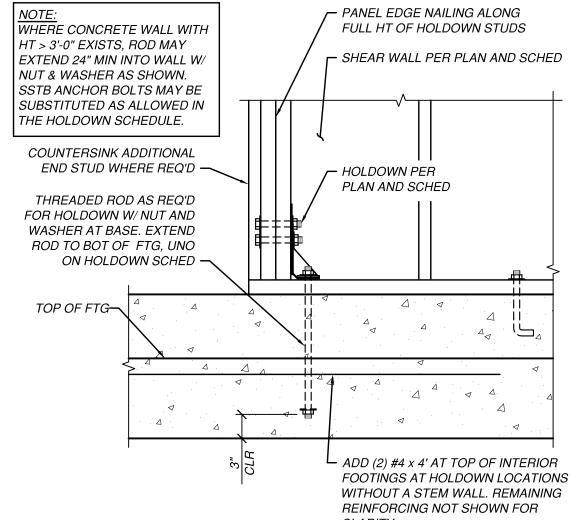
TYPICAL PIPE PENETRATION AT FOUNDATION/WALLS

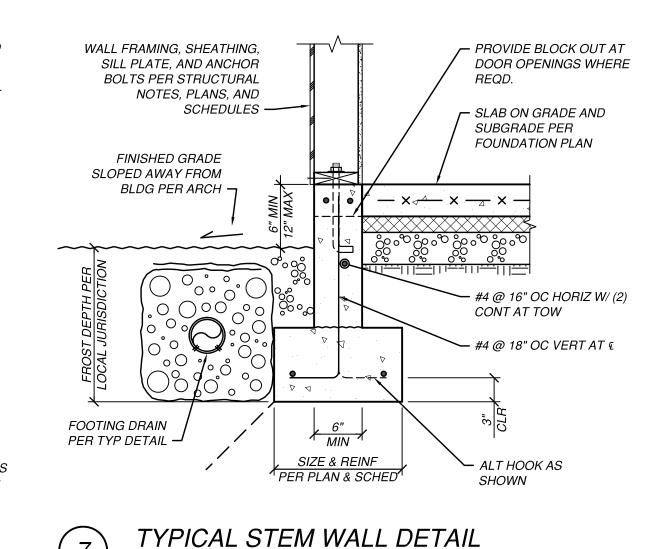


TYPICAL FOOTING STEP

TYPICAL CONCRETE WALL REINFORCING DETAIL

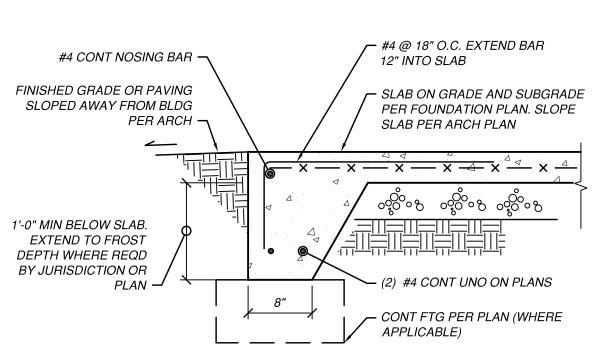


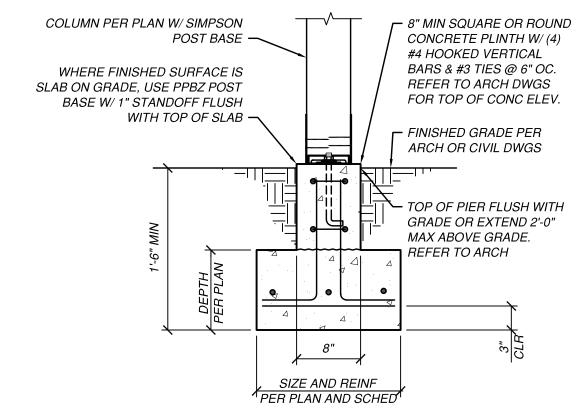




TYPICAL FOOTING DRAIN

CLARITY. HOLDOWN DETAIL





EXTERIOR COLUMN DETAIL

THICKENED SLAB EDGE



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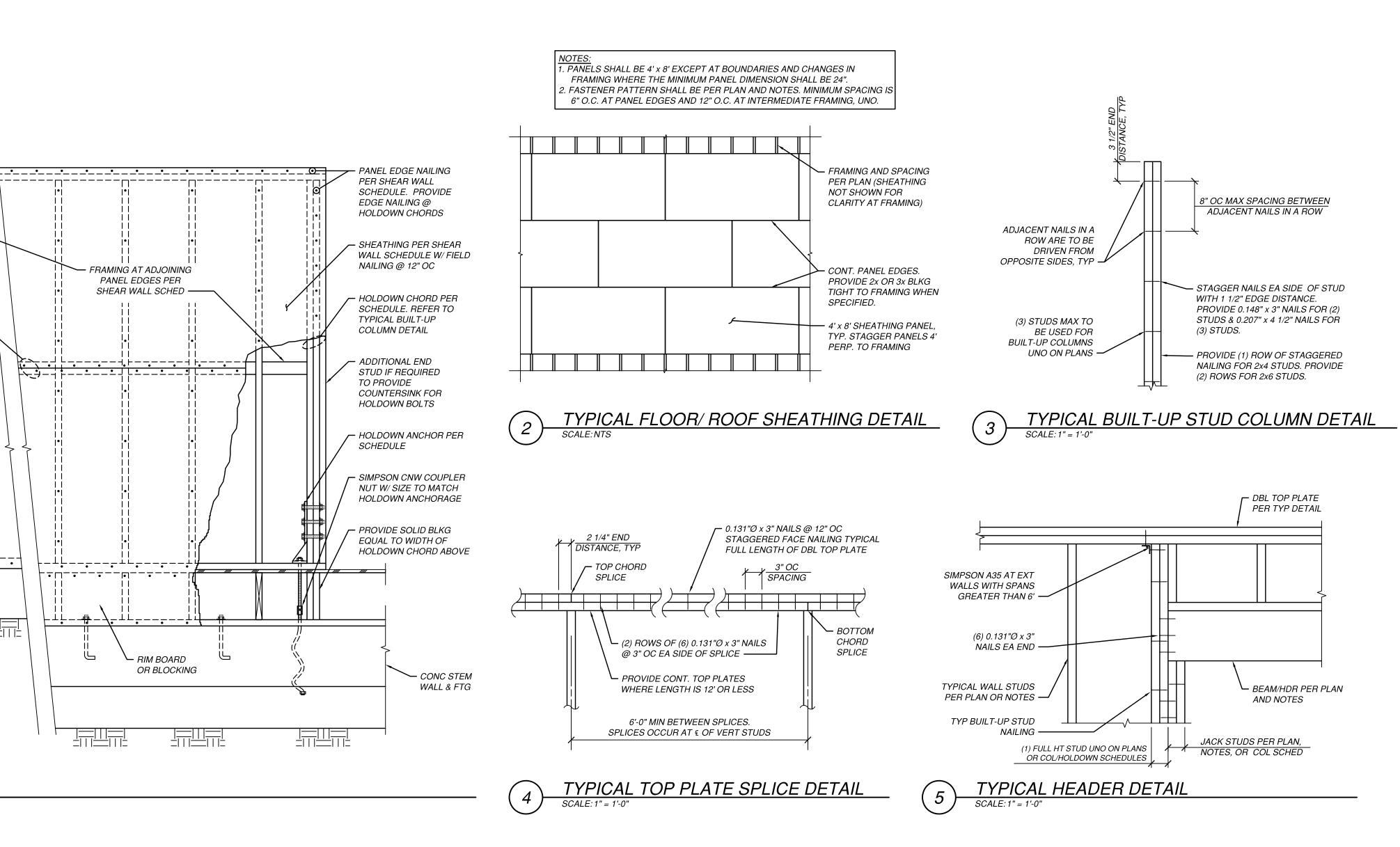
PROJECT NO.: 18041.02 DESIGNED BY DRAWN BY: JMDCAB CHECKED BY:

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WOOD FRAMING DETAILS

SHEET NO.:

S4.1



LENGTH OF NOTCH SHALL

NOT EXCEED 1/3RD THE

JOIST DEPTH -

- PANEL EDGE NAILING PER PANEL EDGE NAILING PER SHEAR WALL SCHEDULE SHEAR WALL SCHEDULE - NAILING PER BUILT-UP STUD DETAIL PANEL EDGE NAILING · NAILING PER BUILT-UP PER SW SCHEDULE -STUD DETAIL WALL FRAMING, SHEATHING, - WALL FRAMING, SHEATHING, AND NAILING PER PLAN AND AND NAILING PER PLAN AND SHEAR WALL SCHEDULE OR SHEAR WALL SCHEDULE OR STRUCTURAL NOTES, TYP STRUCTURAL NOTES, TYP

TYPICAL SHEAR WALL INTERSECTION DETAIL

B. 'T' INTERSECTION

STAGGER NAILS ON EA

SIDE OF PANEL JOINT

WHERE REQUIRED ON

SHEAR WALL SCHED -

AB SIZE AND SPACING PER PLAN AND SHEAR

WALL SCHEDULE, TYP

HEADER WITH CRIPPLE

FULL-HEIGHT HOLDOWN

CHORD PER SCHEDULE.

PT SILL PLATE W/ ANCHOR BOLTS PER SHEAR WALL

SIMPSON BP PL WASHERS WITHIN 1/2" OF SHEATHING. PROVIDE PANEL EDGE

SCHEDULE. PROVIDE

CONCRETE STEM OR FTG ¬

<u>NOTES:</u>
1. REFER TO STRUCTURAL NOTES FOR

A. CORNER INTERSECTION

TYPICAL SHEAR WALL DETAIL

ADDITIONAL INFORMATION.

NAILING INTO SILL PL. —

PROVIDE PANEL EDGE

NAILING.

STUDS PER PLAN

(WHERE APPLICABLE) -

- JOIST FRAMING PER – BEAM PER PLAN PLAN & SCHEDULE -AND SCHEDULE - STUD WALL - SIMPSON A35 EA FRAMING PER SIDE OF BEAM PLAN & NOTES -BEAM PER PLAN AND SCHEDULE ---SIMPSON LTP4 OR A35 EACH SIDE OF BEAM -COL PER PLAN OR SCHEDULE -COL PER PLAN OR SCHEDULE -BEAM WIDTH, UNO BEAM WIDTH, UNO PARALLEL TO STUD WALL PERPENDICULAR TO STUD WALL

WHERE POSSIBLE. PRE-DRILL HOLE AT CORNERS OF NOTCHES. DO NOT OVERCUT NOTCH AT END OF JOISTS SHALL NOT 4x NOTCH DEPTH OR HOLE Ø EXCEED 1/4 THE JOIST DEPTH. DO NOT NOTCH WHERE PRACTICABLE. — WIDTH MAX └ 2x JOISTS PER PLAN OR SCHEDULE. REFER TO MFR RECOMMENDATIONS FOR I-JOIST HOLES AND NOTCHES. MAX HOLE Ø SHALL NOT EXCEED 40% THE STUD DEPTH (I.E. 2 1/4" FOR 2x6, 1 1/4" FOR 2x4). MINIMIZE HOLE DIAMETER WHERE 1. NOTCHES ARE NOT PERMITTED IN THE POSSIBLE. – MIDDLE 1/3 OF THE JOIST SPAN. 2. NOTCHES ARE NOT PERMITTED ON THE BOTTOM (TENSION FACE) OF JOISTS WHERE THE WIDTH IS 4x OR

ALLOWABLE HOLES & NOTCHES

GREATER.

┌ MAX HOLE Ø SHALL NOT

EXCEED 1/3 THE JOIST DEPTH

MINIMIZE HOLE DIAMETER

(I.E. 3" FOR 2x10, 3.75" FOR 2x12).

TYPICAL FLUSH BEAM SUPPORT DETAILS

FRAMING AT ADJOINING

PANEL EDGES PER

SHEAR WALL SCHED -

- RIM BOARD

OR BLOCKING





- CONTINUOUS 2x RIM

- STUD WALL OR STEM

WALL BELOW AS

APPLICABLE



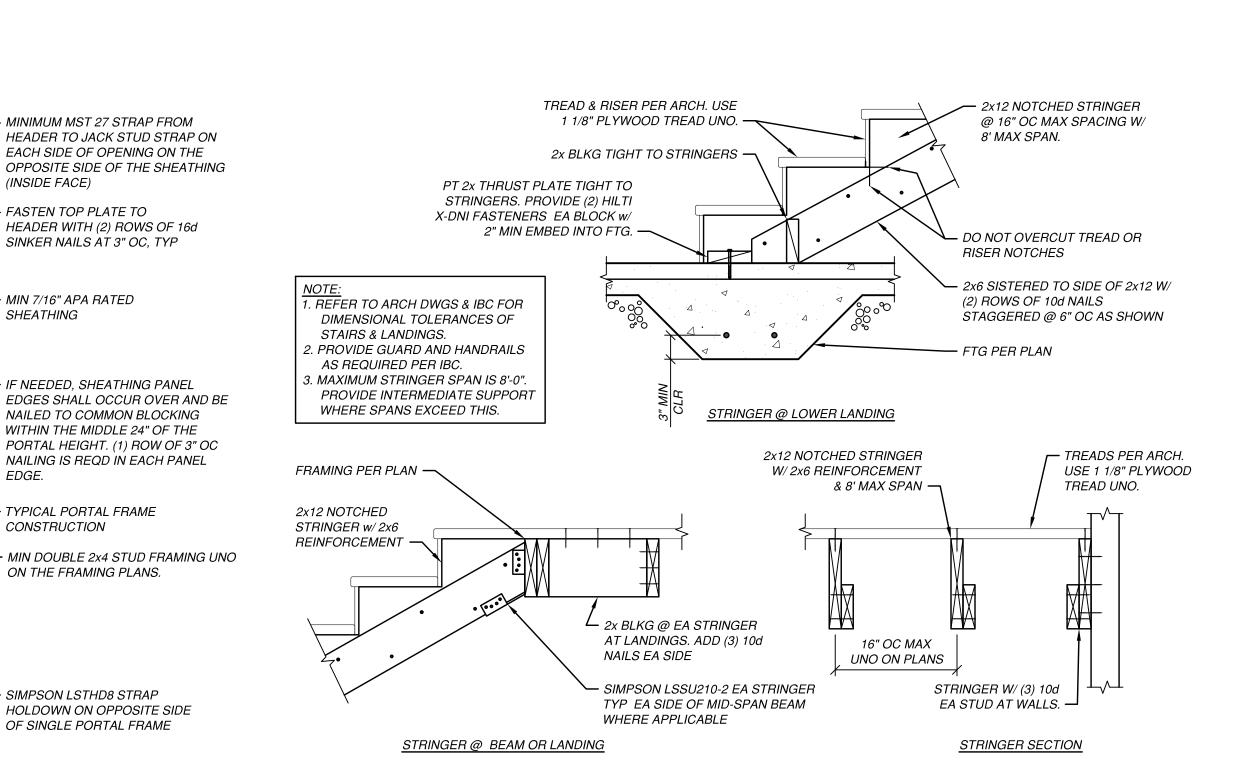
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WOOD FRAMING DETAILS



PORTAL FRAME DETAIL

EXTENT OF HEADER WITH (2) PORTAL FRAMES

EXTENT OF HEADER WITH (1) PORTAL FRAME

- FASTEN SHEATHING TO HEADER WITH

0.131"Ø x 2 1/2" NAILS AT 3" OC GRID

SIMPSON STHD14 STRAP HOLDOWN

┌ (2) #4 BAR CONT AT TOP & BOT OF FOOTING

- MIN FOOTING SIZE IS 16" WIDE x 12" DEEP. A 12"

WIDE TURNED-DOWN SLAB IS PERMITTED AT

- MIN (1) 5/8"Ø ANCHOR BOLT WITH 3 GA x

3" x 4 1/2" PLATE WASHER WITHIN 1/2" OF

EACH END OF EACH WALL PANEL.

UNO ON FOUNDATION PLAN

THE DOOR OPENING.

SHEATHING.

PATTERN AS SHOWN

MIN LENGTH OF WALL PANEL PER PLAN

2' - 18' ROUGH OPENING WIDTH

FOR SINGLE OR DOUBLE PORTAL FRAME

4x12 DF#2 MIN HEADER SIZE (REFER TO FRAMING PLANS)

- MINIMUM MST 27 STRAP FROM HEADER TO JACK

OPPOSITE SIDE OF THE SHEATHING (INSIDE FACE)

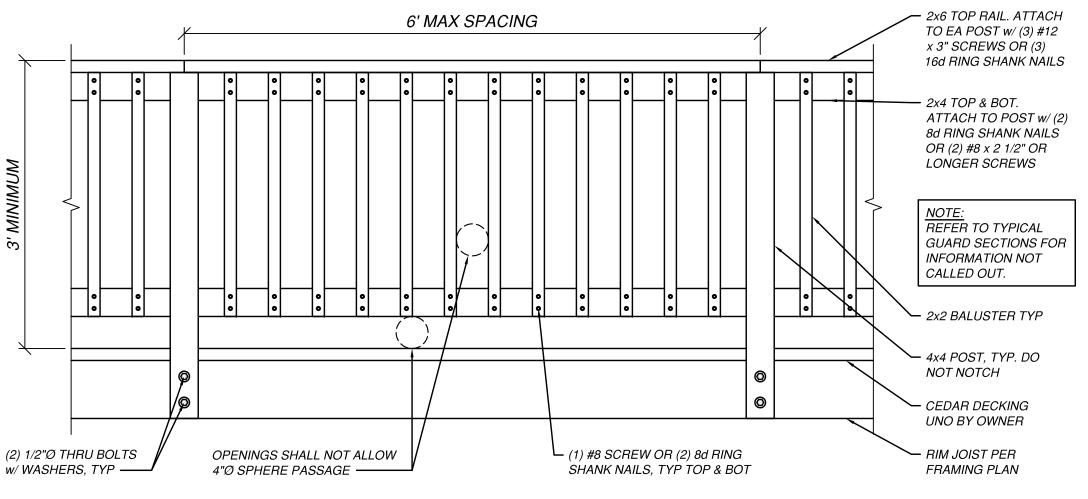
- MIN DOUBLE 2x STUD FRAMING WITH 7/16" APA RATED

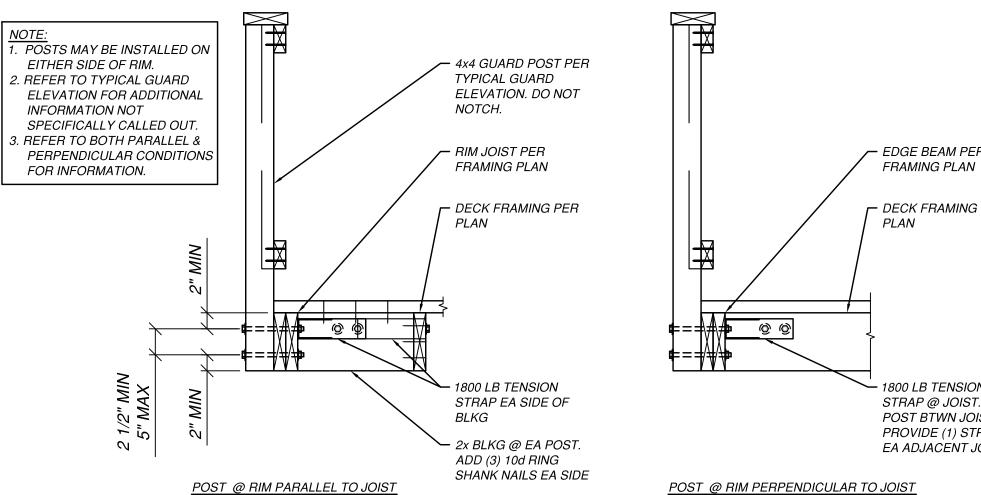
SHEATHING WITH 0.131"Ø x 2 1/2" NAILS AT 3" OC IN

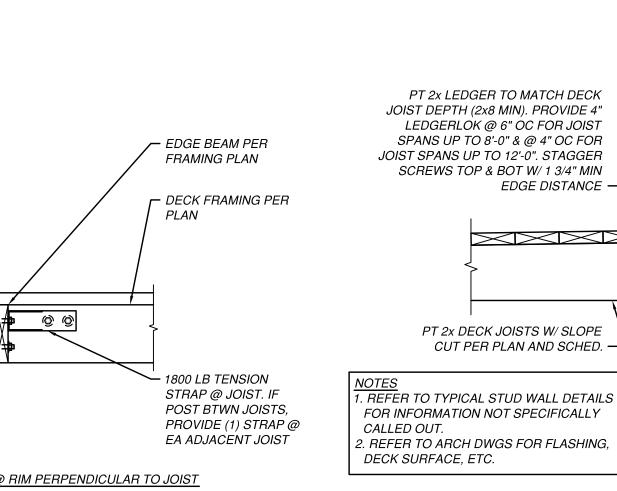
ALL FRAMING (STUDS, BLOCKING, AND SILLS) TYP

STUD ON EACH SIDE OF OPENING ON THE

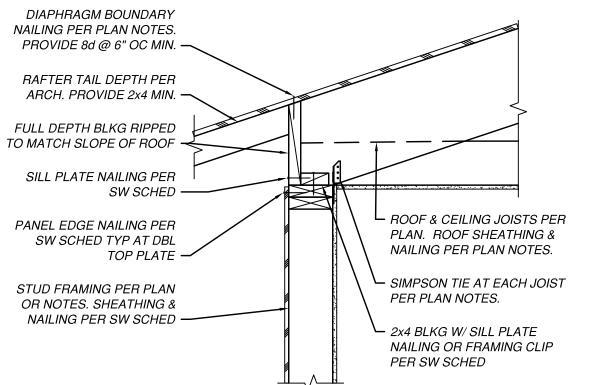
TYPICAL STAIR DETAILS



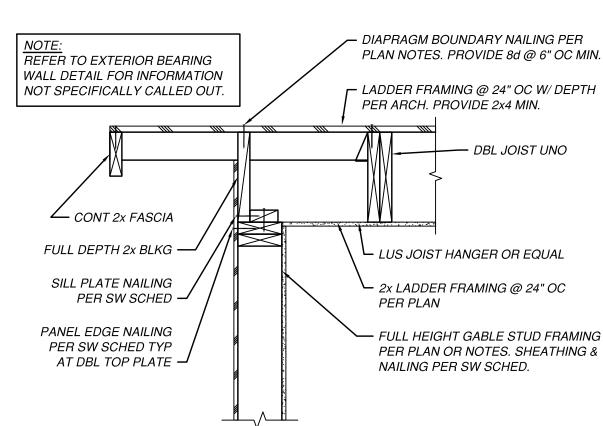








TYPICAL GUARD ELEVATION



- MINIMUM MST 27 STRAP FROM

(INSIDE FACE)

M • • • • •

FASTEN TOP PLATE TO

- MIN 7/16" APA RATED

SHEATHING

EDGE.

EACH SIDE OF OPENING ON THE

HEADER WITH (2) ROWS OF 16d

IF NEEDED, SHEATHING PANEL

NAILED TO COMMON BLOCKING

WITHIN THE MIDDLE 24" OF THE

NAILING IS REQD IN EACH PANEL

TYPICAL PORTAL FRAME

ON THE FRAMING PLANS.

- SIMPSON LSTHD8 STRAP

HOLDOWN ON OPPOSITE SIDE

OF SINGLE PORTAL FRAME

CONSTRUCTION

SINKER NAILS AT 3" OC, TYP

ROOF NON-BEARING WALL DETAIL

ROOF BEARING WALL DETAIL

TYPICAL GUARD SECTIONS

POST @ RIM PERPENDICULAR TO JOIST

DECK/PORCH DETAIL

PT 2x LEDGER TO MATCH DECK

JOIST DEPTH (2x8 MIN). PROVIDE 4"

LEDGERLOK @ 6" OC FOR JOIST

SPANS UP TO 8'-0" & @ 4" OC FOR

SCREWS TOP & BOT W/ 1 3/4" MIN

PT 2x DECK JOISTS W/ SLOPE CUT PER PLAN AND SCHED. —

EDGE DISTANCE -

JOIST SPANS UP TO 12'-0". STAGGER