LAWLER RESIDENCE

ABBREVIATIONS

FLUOR.

F.O. F.O.C.

F.O.F. F.O.S. F.P.

FPRF. FRP

FT. FTG. FURR.

FUT.

GALV.

6.F.I.

65.

G.W.B., GYP. BD.

FLUOURESCENT

FACE OF CONCRETE

FIBERGLASS REINFORCED PANEL

GROUND FAULT INTERRUPTOR

FACE OF FINISH

FACE OF STUDS

FIREPLACE

FIREPROOF

FULL SIZE

FURRING

FUTURE

GAUGE

FOOT OR FEET

GALVANIZED

GRAB BAR

GROUND

GALVANIZED STEEL

GYPSUM WALL BOARD

FACE OF

HOSE BIBB HOLLOW CORE TOWEL BAR TO BE SELECTED/DECIDED ANGLE HDR. HEADER TOP OF CURB HARDWOOD TELEPHONE HARDWARE TEMPORARY H.M. HORIZ. DIAMETER HOLLOW METAL TER. T&G TERRAZZO POUND OR NUMBER HORIZONTAL TONGUE & GROOVE HOUR ANCHOR BOLT THICK ACOUST. TOP OF ACOUSTICAL INSIDE DIAMETER (DIM.) TOP OF PAVEMENT ACOUSTIC T.P.D. TRD., T TOILET PAPER DISPENSER AREA DRAIN ASPHALT CONCRETE INCLUDE(D) ADJ. ADJUST A.F.F. **TELEVISION** ISOLATION ADJACENT ADJUSTABLE INSULATION INTERIOR ABOVE FINISH FLOOR AGGR. INTERNATIONAL BUILDING CODE AGGREGATE A.I.B. I.R.C. INTERNATIONAL RESIDENTIAL CODE AIR INFILTRATION BARRIER JOINT UNFINISHED APPR. **APPROVED** U.O.N., U.N.O. UNLESS OTHERWISE NOTED KEGERATOR APARTMENT APPROX. KIT./ KITCH. KITCHEN APPROXIAMATE ARCH. VAC. VACUUM ARCHITECTURAL LABORATORY VAPOR BARRIER ASBESTOS LAMINATE ASPH. V.C.T. V.C.R. VINYL COMPOSITION TILE ASPHALT LAVATORY VINYL CARPET REDUCER LIVING VERT. **BOARD** LAUNDRY VEST. VESTIBULE BITUM. BLDG. BITUMINOUS VFY. V.T*.O*. BUILDING VERIFY BLK. MAXIMUM VENT TO OUTSIDE BLOCK BLKG. BM. BLOCKING MASTER MEDICINE CABINET WATER CLOSET BENCHMARK MECHANICAL В.О. ВОТ. MEMB., M MEMBRANE W.R.B. WATER RESISTANT BARRIER BOTTOM OF **BOTTOM** MANUFACTURE/R BSMT. BTWN. MANHOLE WOOD BETWEEN MINIMUM MINDOM CAB. C.B. MIRROR WATER METER CABINET MISCELLANEOUS MITHOUT CATCH BASIN MASONRY OPENING WHERE OCCURS CEM. CER. C.F.M. MOUNTED WATERPROOF CERAMIC METAL WAINSCOT CUBIC FEET / MINUTE MATERIAL WEIGHT CAST IRON MULLION CORNER GUARD NORTH CONSTRUCTION/CONTROL JOINT C.L. CLAD. CL./ CLOS CLG. CENTERLINE NOT IN CONTRACT CLADDING CLOSET NOMINAL CEILING CLKG. CLR. N.T.S. NOT TO SCALE CAULKING CLEAR OVERALL CMU. CNTR. C.O. COL. CONCRETE MASONRY UNIT OBSCURE COUNTER ON CENTER CASED OPENING OUTSIDE DIAMETER (DIM.) OVERFLOW CONC. CONN. CONSTR CONCRETE OWNER FURNISH/ CONTRACTOR INSTALL 0.F.C.I. CONNECTION O.F.O.I. OWNER FURNISH/ OWNER INSTALL CONSTRUCTION CONT. CORR. CPT. CONTINUOUS CORRIDOR **OPPOSITE** ORIGINAL OVER CRAWL SPACE CTRL. CTSK. CONTROL COUNTERSUNK PERIMETER **DOORBELL** DBL. DEC. DEPT. DEMO. DOUBLE PLASTIC LAMINATE DECORATIVE PLASTER DEPARTMENT PLYWD. PLYWOOD DEMOLISH, DEMOLITION POWER POLE DRINKING FOUNTAIN PRECAST DIAMETER PARALLEL STRAND LUMBER P.S.L. DIM. DISP. DN. DIMENSION PRESSURE TREATED DISPENSER POINT DOWN D.O. D, DP. DR. DOOR OPENING PARTITION 1 DEEP, DEPTH QUARRY TILE DS. D.S.P. DTL. DWR. DOWNSPOUT RAD. RCP. R.D. DRY STANDPIPE RADIUS REFLECTED CEILING PLAN DETAIL DRAWER REC. RECEPT. RECEPTACLE DWG. DRAWING RECEPTION RECOM. RECOMMENDATION/ RECOMMENDED (E), EXIST. **EXISTING** REF. REFERENCE E.A. EXPOSED AGGREGATE REFR. REFRIGERATOR REINF. REINFORCED EA. EACH E.J. EXPANSION JOINT REQUIRED RESIL. RESILIENT EL. ELEC. ELEVATION RESIST. ELECTRICAL RESISTANT ELEV. EMER. ENCL. **ELEVATION** ROUGH OPENING **EMERGENCY** ROD & SHELF **ENCLOSURE** ENGR'D. E.P. ENGINEERED ELECTRICAL PANEL RAIN WATER LEADER EQUAL EQUIP., EQPT EQUIPMENT E.W.C. ELECTRICAL WATER COOLER SOLID CORE E.W. SCHED. EACH WAY SCHEDULE EXPO. EXP. **EXPOSED** SOAP DISPENSER SMOKE DETECTOR SMOKE DETECTOR CARBON MONOXIDE **EXPANSION** EXT. EXTERIOR F.B. FLAT BAR SAFETY GLASS FLOOR DRAIN SLAB ON GRADE FDN., FNDN FOUNDATION FIRE EXTINGUISHER SHEATHING FINISH FLOOR SHOWER F.G. FIBER GLASS SIMILAR FL., FLR. FLRG. FL00R SLOPE FLOORING SHEET METAL FIN. FIXT. FINISH SPACE(S) FIXTURE SPEAKER(S) FLASH., FLSG. FLASHING SPECIFICATIONS FLEX. FLEXIBLE

SPECIFICATION

STAINLESS STEEL

SERVICE SINK

SQUARE

STATION

STANDARD

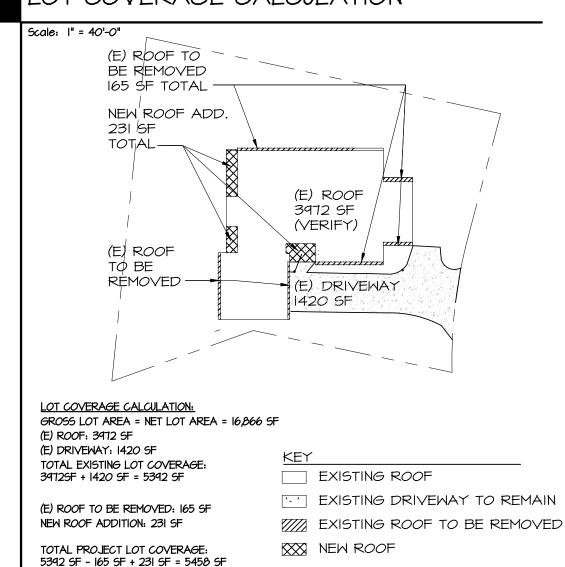
STORAGE

SUSPENDED

SYMMETRICAL

STR'L, STRUC., STRUCT. STRUCTURAL

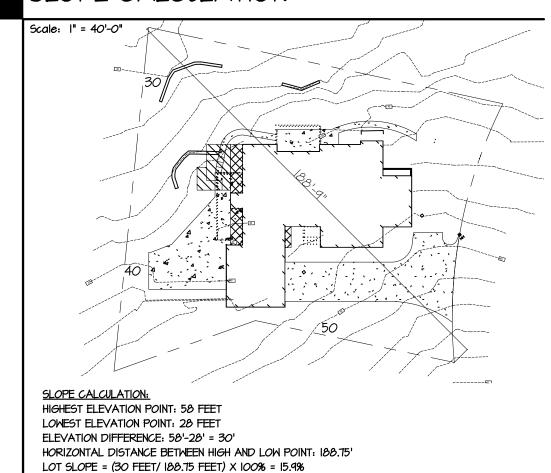
LOT COVERAGE CALCULATION



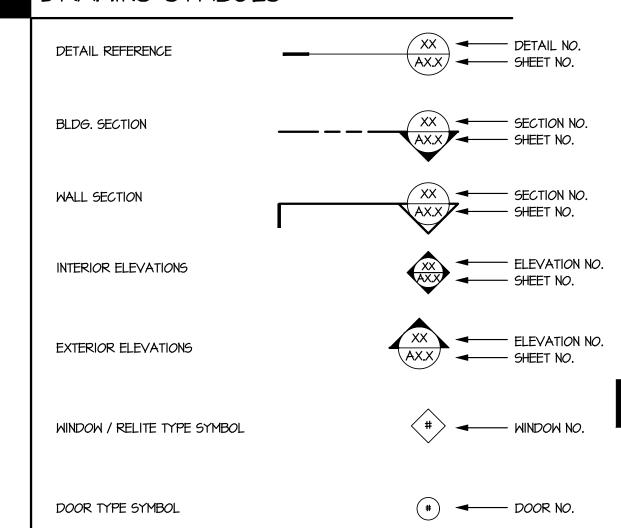
SLOPE CALCULATION

PROPOSED LOT COVERAGE AREA:

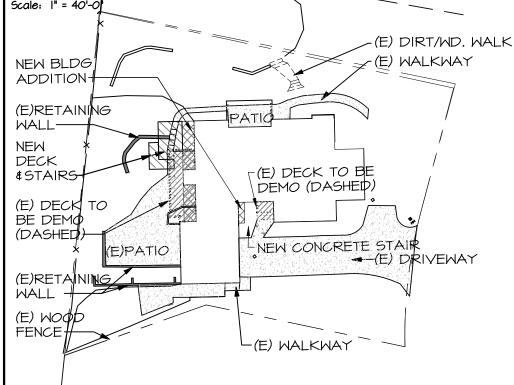
(5458 SF / 16,866 SF) XIOO% = 32.36%



DRAWING SYMBOLS



HARDSCAPE CALCULATION



HARDSCAPE CALCULATION: GROSS LOT AREA = NET LOT AREA = 16,866 SF (E) DECK: 145,1 SF (E) PATIO/WALKWAY: 1414 SF (E) WALKWAYS: 308 SF (E) RETAINING WALL: 113 SF

145.1 SF + 1414 SF + 308 SF + 113 SF = 1927.62 SF (E) HARDSCAPE TO BE REMOVED: 252.65 SF NEW DECK ADDITION: 152.53 SF TOTAL PROJECT HARDSCAPE AREA: 1927.62 SF - 252.65 SF + 152.53 SF = 1827.5 SF TOTAL PROJECT HARDSCAPE AREA: (1827.5 SF / 16,866 SF) XIOO% = 10,849

AVERAGE BLDG. ELEV. CALC.

TOTAL EXISTING LOT COVERAGE:

Scale: I" = 40'-0"

(E) RETAINING WALL E) WALKWAY & PATIO

> (E) DECK TO REMAIN (E) DECK TO BE DEMO

(E) LOG WALL ₩ NEW BLDG ADDITION

NEW DECK

MIDORI LAWLER 2765 60TH AVE. SE. MERCER ISLAND, WA, 98040 PHONE: (206) 718-3276 midoril@live.com GENERAL CONTRACTOR:

HOMEOWNER ACTING AS GENERAL CONTRACTOR STRUCTURAL ENGINEER:

CONSTRUCTION MANAGER: NORTHBROOK CONSTRUCTION MANAGEMENT LLC 13212 409TH AVE SE. NORTH BEND, WA, 98045 PHONE: (206)310-5801 CONTACT: KEN BROOKS northbrooklic@comcast.net M.I. BUSINESS LICENSE# 040496

MALL SEGMENT

LENGHTH

33' - 5 3/4"

24' - 4 1/4"

25' - 9 3/4"

14'-8"

1'-9 1/2"

19' -3 3/4"

26' - 5 1/2"

14' - 5"

|| | - || |/2"

 \vec{A} = 54.5'

-G = 39'

J = 41.5'

K = 41.5'

L = 41'

M = 43'

N = 45'

P = 46.5'

Q = 48.5' |2' - 0"

R = 48.75' 8' - 43/4"

S = 48.25' 26' - 3"

T = 46.5' 8' - 8"

GEOTECHNICAL ENGINEER: GEOTECH CONSULTANTS, INC. 2401 IOTH AVE. E. SEATTLE, WA, 98102. PHONE: (425)747-5618 CONTACT: ROB WARD robw@geotechnw.com

ARCHITECT: TCA ARCHITECTURE PLANNING

SEATTLE, WASHINGTON 98115 PHONE: 206-522-3830 CONTACT: STEPHEN RISING stephen@tca-inc.com

> SSF STRUCTURAL ENGINEERING 2124 3RD AVE. SEATTLE, WA 98121 PHONE: (206) 443-6212 CONTACT: GREG COONS GCOONS@SSFENGINEERS.COM

6211 ROOSEVELT WAY NORTHEAST

SURVEYOR: TYEE SURVEYORS 10007 GREENWOOD AV. N. SEATTLE, WA, 98133 PHONE: 206-525-3660 CONTACT: REED GRIFFIN

TITLE SHEET & PROJECT DATA TI.2 GENERAL NOTES TI.3 GROSS FLOOR AREA PLANS & CALCS.

SHEET INDEX

Al.2 BASEMENT DEMO PLAN (NOT INCL. IN PERMIT SET) FIRST FLOOR DEMO PLAN (NOT INCL. IN PERMIT SET)

ROOF DEMO PLAN (NOT INCL. IN PERMIT SET) A2.I BASEMENT FLOOR PLAN A2.2 FIRST FLOOR PLAN A2.3 ROOF PLAN (NOT INCL. IN PERMIT SET)

A3.I EXT. ELEVATIONS A3.2 EXT. ELEVATIONS BUILDING SECTIONS WINDOW/ DOOR SCHEDULE; ENERGY CODE WORKSHEET

STRUCTURAL NOTES BSMT FOUNDATION PLAN FIRST FLR. FRAMING / FDN. PLAN 52.3 ROOF FRAMING PLAN CONCRETE STRUCTURAL DETAILS

53.I 53.2 CONCRETE STRUCTURAL DETAILS STRUCTURAL DETAILS 54.2 STRUCTURAL DETAILS

STRUCTURAL DETAILS

PROJECT INFORMATION

PERMIT NUMBER:

8456 N MERCER WAY. MERCER ISLAND, 98040. SITE ADDRESS:

PARCEL NUMBER: 545260-0100

MERCER PARK LANE TOW UND INT IN TRACTS A B C LESS POR LEGAL DESCRIPTION: DAF BEG AT MOST SLY COR TH N 55-50-02 W 141,87 FT TH S 73-58-00 E 62.59 FT TH S 42-31-53 W 84.66 FT T POB TGW 1/6 UND INT IN POR LOT 5 SD PLAT LY NLY OF FOLG DESC LN BEG AT NW COR LOT 5 TH N 73-54-57 E 67.31 FT TH N 41-48-01 E 112.82 FT TO TPOB TH S 61-41-59 E 15.43 FT TH N 41-48-01 E TO

OUTER LIMITS OF 2ND CL SH LDS & TERMINUS OF SD LN

ZONING:

LOT COVERAGE: LOT AREA = 16,866 SF GROSS FLOOR AREA: ALLOWED GROSS FLOOR AREA: ALLOWED GROSS FLOOR AREA: TOTAL GROSS FLOOR AREA:

OCCUPANCY: TYPE R-3

TYPE VB, (E) NON RATED, SPRINKLER TO BE ADDED CONSTRUCTION TYPE:

CONSTRUCTION CODES: 2015 INTERNATIONAL RESIDENTIAL CODE, MERCER ISLAND MUNICIPAL CODE,

PROJECT TEAM

Revisions:

PERMIT

SET

Date:

architecture · planning

6211 Roosevelt Way N.E.

Seattle, WA. 98115

ARCHITEC

(206) 522-3830

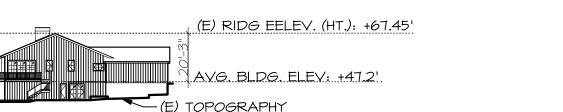
Project Title:

RESID

Sheet Title: TITLE SHEET & PROJECT DATA

NOT TO SCALE Date: 06/30/2020

Sheet Number:



(54.4')(14'-8") + (54')(33'- 5 3/4") + (53.5')(24'-4 1/4") + (59')(25'-9 3/4") + (59')(1'-9 1/2") + (40')(41'-11") + (39")(19'-3 3/4") + (39.5')(3') + (41.5')(17'-10") +

(41.5')(3') + (41))(26'-5 |/2") + (43')(14'-5") + (45')(11'-11 |/2") + (46.5')(21'-5 3/4") + (48.5')(12'-0") + (48.75')(8'-4 3/4") + (46.25')(26'-3") + (46.5')(8'-8") / ((14'-8") + (33'-5 3/4") + (24'-4 |/4") + (25'-9 3/4") + (1'-11 |/2") + (41'-11") + (19'-9 3/4") + (3'-0") + (17'-10") + (3'-0") + (26'-5 |/2") + (14'-5") + (11-11 |/2") +

BEFORE DEVELOPMENT ACTIVITY

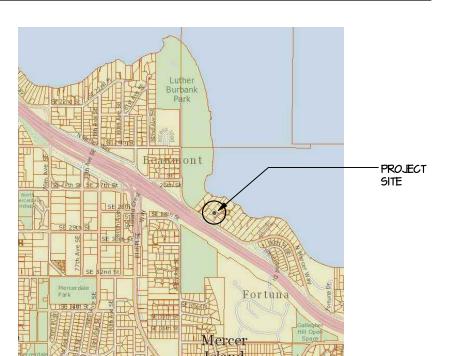
MEST EXT. ELEV.

AVERAGE BUILDING ELEVATION CALCULATION:

=14,852.746875 / (314'-9 1/2") = 47.18'

(21-5 3/4") + (12'-0") + (8'-4 3/4") + (26'-3") + (8'-8"))

VICINITY MAP



GENERAL NOTES

- I. THESE DRAWINGS ARE THE EXCLUSIVE PROPERTY OF THE ARCHITECT AND MAY ONLY BE REPRODUCED WITH THE WRITTEN PERMISSION OF THE ARCHITECT. AUTHORIZED REPRODUCTIONS MUST BEAR THE NAME OF THE ARCHITECT. COPYRIGHT 2020 BY TCA ARCHITECTURE-PLANNING, THESE DRAWINGS ARE FULLY PROTECTED BY FEDERAL AND STATE COPYRIGHT LAWS. ANY INFRINGEMENT OF THESE LAWS WILL BE PROSECUTED. ALL CONSTRUCTION SHALL CONFORM TO THE 2015 INTERNATIONAL RESIDENTIAL CODE, MERCER ISLAND MUNICIPAL CODE AND 2015 WASHINGTON STATE ENERGY CODE AND BE IN ACCORDANCE WITH ALL WASHINGTON STATE LAWS AND REGULATIONS AND ALL CODES IMPOSED BY LOCAL AUTHORITIES. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY WORK KNOWINGLY PERFORMED. CONTRACY TO SUCH LAWS, ORDINANCES OR REGULATIONS.
- 2. THE CONTRACTOR SHALL CHECK ALL DRAWINGS AND VERIFY ALL DIMENSIONS (INCLUDING ROUGH OPENINGS), DATUMS, LEVELS, AND STRUCTURAL MEMBER SIZES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY INFORM THE ARCHITECT OF ANY DISCREPANCIES IN THE DRAWINGS OR WITH THE CODES. CHANGES INITIATED BY THE CONTRACTOR SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO PROCEEDING WITH FABRICATION OR CONSTRUCTION. CHANGES INDICATED SOLELY ON THE DRAWINGS WILL NOT SATISFY THIS REQUIREMENT. IN CASES OF DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE DRAWINGS, THE CONTRACTOR SHALL OBTAIN DIRECTIONS FROM THE ARCHITECT PRIOR TO PROCEEDING.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM HIS OR HER WORK, AS WELL AS BEING RESPONSIBLE FOR ALL REQUIRED SAFETY PRECAUTIONS. STRUCTURAL SYSTEMS WHICH ARE COMPOSED OF COMPONENTS TO BE ERECTED IN THE FIELD, SHALL BE ACCOMPANIED BY SUPPLIER SUPERVISION DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE AND ERECTION ACCORDING TO THE INSTRUCTIONS PREPARED BY THE SUPPLIER.
- 4. CONTRACTOR SHALL BE FAMILIAR WITH ANY GENERAL STRUCTURAL NOTES ELSEWHERE IN THESE DOCUMENTS. WHERE CONFLICTS OCCUR BETWEEN THESE GENERAL NOTES AND STRUCTURAL NOTES, THE GENERAL STRUCTURAL NOTES SHALL SUPERCEDE.
- 5. NOTED DIMENSIONS AND VERIFIED EXISTING DIMENSIONAL CONDITIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS: <u>DO NOT SCALE DRAWINGS.</u>
- 6. REPETITIVE FEATURES DRAWN OR NOTED ONLY ONCE SHALL BE COMPLETELY PROVIDED AS IF DRAWN OR NOTED IN FULL.
- 7. INTERIOR DIMENSIONS ARE TO SURFACE OF FINISH UNLESS NOTED OTHERWISE ON THE DRAWINGS. EXTERIOR DIMENSIONS ARE FACE OF STUD UNLESS NOTED OTHERWISE ON DRAWINGS. DOORS, WINDOWS AND COLUMNS ARE DIMENSIONED TO THE CENTERLINE UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- 8. EACH SUBCONTRACTOR IS RESPONSIBLE FOR COORDINATING HIS WORK WITH ALL OTHER TRADES AND SHALL VERIFY ALL FIELD DIMENSIONS WITH CONDITIONS FOR ITEMS FURNISHED AND INSTALLED BY HIMSELF.
- 9. EACH SUBCONTRACTOR, AT THE COMPLETION OF HIS WORK, SHALL REMOVE ALL DEBRIS RESULTING FROM HIS WORK.
- IO. EACH SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE HE DOES TO ADJACENT WORK AND SHALL MAKE GOOD SUCH DAMAGE AT HIS OWN EXPENSE. EXISTING AREAS DAMAGED AS A RESULT OF WORK DONE UNDER THIS CONTRACT SHALL BE REPAIRED AND FINISHED TO MATCH ADJACENT FINISHES.
- II. FIRE-STOP WALLS, FLOORS AND FURRED AREAS PER 2015 IRC SECTION R302
- 12. ALL DUCTS, EQUIPMENT, UTILITY LINES AND CONDUITS SHALL BE HELD AS CLOSE AS POSSIBLE TO STRUCTURAL CEILINGS AND BEAMS.
- 13. GENERAL CODE NOTES:
- A. FIRE DAMPER DUCTWORK PASSING THROUGH RATED WALLS AND FLOORS SHALL COMPLY W IRC SECTION R302.4
 B. PROVIDE SAFETY GLASS PER IRC SECTION R308
- C. FLAME SPREAD OF CARPETING AND INTERIOR FINISHES SHALL COMPLY W IRC SECTION R302.9
- 14. PRIOR TO CONSTRUCTION THERE SHALL BE A PRE-CONSTRUCTION CONFERENCE ARRANGED BY THE APPLICANT WITH GEOTECHNICAL ENGINEERS, SITE INSPECTOR, PROJECT SPECIAL INSPECTORS AND CONTRACTOR AND ALL OTHER ENGINEERS OR INSPECTORS
- 15. FIRST DPD SITE INSPECTION IS REQUIRED FOR TEMPORARY EROSION AND SEDIMENT CONTROL AND MUST BE SCHEDULED PRIOR TO STARTING ANY CONSTRUCTION ACTIVITY.

CONSTRUCTION NOTES

- ALL INTERIOR SLABS-ON-GRADE SHOULD BE UNDERLAIN BY A CAPILLARY BREAK DRAINAGE LAYER CONSISTING OF A MINIMUM 4-INCH THICKNESS OF CLEAN GRAVEL OR CRUSHED ROCK THAT HAS A FINES CONTENT (PERCENT PASSING THE NO. 200 SIEVE) OF LESS THAN 3 PERCENT AND A SAND CONTENT (PERCENT PASSING THE NO. 4 SIEVE) OF NO MORE THAN 10 PERCENT. PEA GRAVEL OR CRUSHED ROCK ARE TYPICALLY USED FOR THIS LAYER,
- SLOPE ALL DECKS, WALKS, DRIVEWAYS AND PATIOS AWAY FROM BUILDING.
- 2. ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED. PRESSURE TREATED WOOD SHALL ALSO BE USED FOR WOOD MEMBERS WHICH FORM THE STRUCTURAL SUPPORT OF BALCONIES, PORCHES, ETC. WHEN SUCH MEMBERS ARE EXPOSED TO THE WEATHER
- 3. ALL EXPOSED EXTERIOR METAL SHALL BE GALVANIZED.
- PROVIDE FIRE BLOCKS AND DRAFT STOPS PER APPLICABLE CODES.
- 4. PROVIDE AND INSTALL SMOKE DETECTORS. CARBON MONOXIDE DETECTORS, SMOKE DETECTORS SHALL RECEIVE PRIMARY POWER FROM BUILDING WIRING AND BE EQUIPPED WITH BATTERY BACK-UP.
- 5. KITCHEN RANGE AND CLOTHES DRYER SHALL EXHAUST DIRECTLY TO OUTSIDE. VENTS SHALL BE SMOOTH, NON-COMBUSTIBLE, NON-ABSORBENT AND EQUIPPED WITH BACKDRAFT DAMPER. (SEE MECHANICAL NOTES)
- 6. EXTERIOR JOINTS SHALL BE SEALED, CAULKED, GASKETED, OR WEATHERSTRIPPED IN SUCH A MANNER TO MAKE THEM WEATHERPROOF AND WATERTIGHT AT THE FOLLOWING LOCATIONS: WINDOW AND DOOR FRAMES, OPENINGS BETWEEN WALL AND FOUNDATION, OPENINGS BETWEEN WALL AND ROOF, OPENINGS
- 7. BRIDGING CROSSBRACING, PROVIDE SOLID BLOCKING OVER BEARING PARTITIONS, WALLS, AND BEAMS.
- 8. COLUMNS AND POSTS, FRAMED TO TRUE AND BEARING ADEQUATELY ANCHORED AT THE TOP AND BOTTOM, WITH A POSITIVE DIRECT CONECTION TO ASSURE AGAINST UPLIFT AND LATERAL DISPLACEMENT

AT PENETRATION OF UTILITY SERVICES, ALL OTHER OPENINGS IN THE BUILDING ENVELOPE.

- 4. WHEN DECKS, LANDINGS OR PORCHES ARE MORE THAN 30 INCHES ABOVE GRADE, PROVIDE GUARDRAILS NOT LESS THAN 36 INCHES HIGH W/ INTERMEDIATE MEMBERS SPACED SUCH THAT A SHERE 4 INCHES IN DIAMETER CANNOT PASS THROUGH. GAURDRAILS TO BE DESIGNED TO WITHSTAND A HORIZONTAL FORCE OF 20 POUNDS PER LINEAL FOOT WHEN APPLIED AT A RIGHT ANGLE TO THE TOP OF THE RAILING.
- 10. PLYWOOD ROOF SHEATHING EXPOSED ON THE UNDERSIDE SHALL BE BONDED WITH EXTERIOR GLUE.
- II. APPLICATION OF ROOF COVERING MATERIALS SHALL BE IN ACCORDANCE PER IRC SECTION R312.
- 12. EXTERIOR WALL COVERINGS SHALL BE APPLIED PER MANUFACTURER SPECIFICATIONS.
- 13. ANCHORED MASONRY VENEER SHALL COMPLY WITH PROVISIONS OF IRC SECTION R703.8
- 14. ADHERED MASONRY VENEER SHALL COMPLY WITH PROVISIONS OF IRC SECTION R703.1215. VENEER SHALL SUPPORT NO LOAD OTHER THAN ITS OWN WEIGHT AND THE VERTICAL DEAD LOAD OF
- 16. MASONRY SHALL NOT BE SUPPORTED BY WOOD MEMBERS EXCEPT AS PROVIDED FOR IN IRC.

BATHROOMS

- I. ALL TUB AND SHOWER STALLS SHALL HAVE FIRE BLOCKING BETWEEN STUDS.
- 2. ALL GLAZING WITHIN 60" OF DRAIN INLET SHALL BE SAFETY GLASS.
- 3. SHOWER STALL WAINSCOT SHALL BE 6'-O" (MIN.) HIGH SURROUND WITH WATER RESISTANT BACKING.
- 4. SHOWERS SHALL BE EQUIPPED WITH FLOW CONTROL DEVICES THAT LIMIT THE WATER FLOW TO 2.5 GPM.

STAIRS

- I. HEADROOM-6'-8" (MIN.), WIDTH-3'-0" (MIN.)
- 2. WHERE A GUARD RAIL OCCURS, THE CLEAR SPACE BETWEEN INTERMEDIATE RAILS SHALL NOT
- ALLOW A SHERE 4" IN DIAMETER PASS THROUGH

 3. TREAD IO" MINIMUM, RISER 7 3/4" MAXIMUM.
- 4. TOP OF HANDRAIL SHALL BE 34" (MIN.) AND 36" (MAX.) ABOVE THE STAIR NOSING. HANDRAIL SHALL BE SPACED NOT LESS THAN I-I/2" FROM WALL AND MAY PROJECT INTO THE REQUIRED STAIR WIDTH 3-I/2" (MAX.) RETURN ENDS OF HANDRAILS OR TERMINATE IN NEWEL POST. HANDRAIL SHALL BE I-I/2" (MIN.) AND 2" (MAX.) IN CROSS SECTION.
- 5. INSTALL FIRE BLOCKING IN CONCEALED SPACES BETWEEN STRINGERS AT THE TOP AND BOTTOM OF THE RUN AND BETWEEN STUDS ALONG AND IN LINE WITH THE RUN OF THE STAIRS.

 COVER USABLE SPACE UNDER STAIR WITH I/2" GWB PER IRC SECTION R302.7

ATT

- I. PROVIDE ATTIC VENTILATION AS INDICATED ON ROOF
 FRAMING PLAN. THE MINIMUM NET FREE VENTILATING AREA SHALL BE NOT LESS THAN I SQ. FT.
 PER 150 SQ. FT. OF ATTIC AREA (OR I SQ. FT. PER 300 SQ. FT. IF 50% OF THE REQUIRED
 VENTILATING AREA IS AT LEAST 3 FT. ABOVE THE EAVE VENTS OR I SQ. FT. PER 300 SQ. FT.
 OF ATTIC AREA IF A VAPOR RETARDER HAVING A TRANSMISSION RATE NOT EXCEEDING I.O PERM IS
 INSTALLED ON THE WARM SIDE OF THE ATTIC INSULATION). IBC SECTION 1508
- 2. IN ATTIC SPACES WITH 30" OR MORE OF HEIGHT, PROVIDE ATTIC ACCESS, 22" X 30" (MIN.) WITH 30" MIN. HELD COOM. THE OPENING SHALL BE UNOBSTRUCTED AND READILY ACCESSIBLE PER

GLAZING - IRC SECTION R308.4

- I. GLAZING SHALL COMPLY WITH THE WA. STATE SAFETY GLASS LAW. GLAZING IN
 LOCATIONS SUBJECT TO HUMAN IMPACT, SUCH AS PANES IN DOORS, WITHIN 24" EITHER SIDE OF A
 DOOR OPENING, CLOSER THAN 18" TO THE FLOOR, ON SHOWER DOORS AND ON TUB ENCLOSURES,
 SHALL BE WIRE REINFORCED, TEMPERED GLASS, LAMINATED SAFETY GLASS OR SHATTER RESISTANT
 PLASTIC. SLIDING GLASS DOORS TO BE SAFETY GLAZING, LAMINATED, OR TEMPERED GLASS.
 SHOWER ENCLOSURES TO BE MADE OF APPROVED WIRE REINFORCED, TEMPERED, OR LAMINATED
 SAFETY GLASS, OR SHATTER RESISTANT PLASTIC.
- 2. GLAZING WITHIN 18" OF THE FLOOR AND GREATER THAN 18" IN THE LEAST DIMENSION SHALL COMPLY WITH IMPACT LOADS.
- 3. ALL EXTERIOR WALL GLAZING SHALL BE DOUBLE GLAZED.
- 4. SKYLIGHTS SHALL BE BE OF LAMINATED GLASS, 7/32" THICKNESS (MIN.) AND A 38 MIL. (MIN.) APPROVED.

 5. EGRESS WINDOWS. EVERY SLEEPING ROOM SHALL HAVE AT LEAST ONE OPERABLE WINDOW W
- 5. EGRESS WINDOWS: EVERY SLEEPING ROOM SHALL HAVE AT LEAST ONE OPERABLE WINDOW WITH A NET CLEAR OPENING OF 5.7 SQ. FT. THE OPENABLE HEIGHT SHALL BE 24" (MIN.) AND WIDTH 20" (MIN.) WITH A FINISHED SILL HEIGHT NOT MORE THAN 44" A.F.F.

FIREPLACE AND CHIMNEY

- I. ALL CHIMNEYS SHALL EXTEND AT LEAST 2 FT. ABOVE THE HIGHEST ELEVATION OF ANY PART OF THE BUILDING WITHIN 10 FT. AND AT LEAST 3 FT. ABOVE ANY ROOF LESS THAN 3:12 SLOPE.
- 2. CHIMNEYS SHALL BE ENCLOSED, ABOVE THE STORY IN WHICH THE APPLIANCE SERVED IS LOCATED PER THE REQUIREMENTS OF M.M.C. CHAPTER 8, AND THE INTERPRETATION OF THE GOVERNING JURISDICTION.
- 3. PROVIDE FIRE BLOCKING AT CHIMNEY PER APPLICABLE CODE.
- 4. INSTALL METAL FIREPLACES PER MANUFACTURERS SPECIFICATIONS AND U.L. LISTING REQUIREMENTS. GAS VENTING PER APPLICABLE CODE.
- 5. COMBUSTIBLE FRAMING MATERIAL SHALL NOT BE PLACED WITHIN 2 INCHES OF FIREPLACE, SMOKE CHAMBER, OR CHIMNEY WALL FOR INTERIOR INSTALLATION AND WITHIN I INCH FOR EXTERIOR INSTALLATION. NO COMBUSTIBLE MATERIAL SHALL BE PLACED WITHIN 6 INCHES OF THE FIREPLACE OPENING. COMBUSTIBLE MATERIAL WITHIN 12 INCHES OF THE FIREPLACE OPENING SHALL NOT EXTEND 20 INCHES IN FRONT OF AND 12 INCHES TO EACH SIDE (MIN.).
- 6. THE HEARTH SHALL EXTEND AT LEAST 16 INCHES IN FRONT OF AND & INCHES TO EACH SIDE OF THE FIREPLACE OPENING WHEN THE OPENING IS SMALLER THAN 6 SQ. FT. IF THE OPENING IS 6 SQ. FT. OR LARGER, THE HEARTH SHALL EXTEND 20 INCHES IN FRONT AND 12 INCHES TO EACH SIDE MIN.
- 7. PROVIDE FRESH AIR INTAKE WITH A 6 SQ. IN. DUCT, WITH DAMPER, FROM THE OUTSIDE TO THE FIREBOX PER MANFUFACTURERS REQUIREMENTS
- 8. PROVIDE TIGHT-FITTING GLASS OR METAL DOORS, TIGHT-FITTING FLUE DAMPER WITH MANUAL OR AUTOMATIC CONTROLS (FIREPLACE) AND AN OUTSIDE SOURCE OF COMBUSTION AIR (DIRECT TO FIREBOX FOR FIREPLACE).

SITE

- I. PIPE ALL STORM DRAINAGE FROM THE BUILDING TO A DISPOSAL POINT APPROVED BY THE BUILDING DEPARTMENT AND AUTHORITIES HAVING JURISDICTION. PROVIDE 4" INDEPENDENT TIGHTLINE FOR ALL ROOF DRAINAGE AROUND PERIMETER TO APPROVED STORM DRAINAGE SYSTEM. DOWNSPOUTS SHALL BE CAPPED AT RISER CONNECTIONS. FOOTING DRAINS SHALL BE 4" PERFORATED PIPE WRAPPED IN FILTER FABRIC SET IN CLEAN FREE DRAINING GRAVEL FILL. FOOTING DRAINS SHALL BE PLACED AT THE BASE OF THE FOOTING AND CONNECT INTO AN APPROVED STORM DRAINAGE SYSTEM DRAINS AND TIGHTLINES SHALL SLOPE AT A MINIMUM OF 1/8"/FT.
- 2. BOUNDARY AND TOPOGRAPHY INFORMATION HAS BEEN PROVIDED BY THE OWNER. THE ARCHITECT SHALL NOT BE HELD RESPONSIBLE LIABLE FOR THE ACCURACY OF THIS INFORMATION. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL SITE CONDITIONS INCLUDING ANY FILL PLACED ON THE SITE PRIOR TO WORK, THE CONTRACTOR MUST INFORM THE ARCHITECT OF ANY POTENTIAL FIELD MODIFICATIONS NOT SPECIFIED ON THE PLANS PRIOR TO WORK.
- 3. MAXIMUM NON-STABILIZED FILL NOT TO EXCEED 2:1 SLOPE PER GEOTECH REPORT.
- 4. CUT SLOPES FOR PERMANENT EXCAVATIONS SHALL NOT BE STEEPER THAN 2 HORIZONTAL TO I VERTICAL AND SLOPES FOR PERMANENT FILLS SHALL NOT BE STEEPER THAN 2 HORIZONTAL TO I VERTICAL UNLESS SUBSTANTIATING DATA JUSTIFYING STEEPER SLOPES ARE SUBMITTED. DEVIATION FROM THE FOREGOING LIMITATIONS FOR SLOPES SHALL BE PERMITTED ONLY UPON THE PRESENTATION OF A SOIL INVESTIGATION REPORT ACCEPTABLE TO THE BUILDING OFFICIAL.
- EXCAVATION MATERIAL REMAINING ON SITE IS TO BE CONTAINED BY AN APPROVED SEDIMENT BARRIER.
 THE CONTRACTOR MUST VERIFY LOCATION WITH APPROPRIATE BUILDING OFFICIAL. PROTECT ALL STOCK
 PILED MATERIAL FROM EROSION
- 5. FOUNDATION SETBACKS FROM ASCENDING AND DESCENDING SLOPES SHALL COMPLY WITH SECTIONS R403.1.7.1 AND R403.1.7.2 S.R.C.

INSULATION

- ALL INSULATION MATERIALS, INCLUDING FACINGS SUCH AS VAPOR BARRIERS OR BREATHER PAPERS, INSTALLED WITHIN FLOOR/CEILING ASSEMBLIES, ROOF/CEILING ASSEMBLIES, WALLS, CRAWL SPACES, OR ATTICS SHALL HAVE A FLAME SPREAD RATING NOT TO EXCEED 25 AND A SMOKE DENSITY NOT TO EXCEED 450 WHEN TESTED IN ACCORDANCE WITH APPLICABLE CODES. WHEN SUCH MATERIALS ARE INSTALLED IN CONCEALED SPACES, THE FLAME SPREAD AND SMOKE-DEVELOPED LIMITATIONS DO NOT APPLY TO THE FACING, PROVIDED THAT THE FACING IS INSTALLED IN SUBSTANTIAL CONTACT WITH THE UNEXPOSED SURFACE OF THE CEILING, FLOOR, OR WALL FINISH.
- A. CEILINGS (R-49 BATT INSULATION, U.O.N.)

 I. THE ROOF AND CEILING SHALL BE INSULATED WITH R-49 BATT INSULATION WHERE POSSIBLE,
 PROVIDE INSULATION IN THE CEILING AND IN THE RAFTERS. IF A VAULTED CEILING CONDITION
- OCCURS, PROVIDE R-38 INSULATION.

 2. MAINTAIN A MINIMUM OF I" CLEARANCE BETWEEN TOP OF INSULATION AND BOTTOM OF SHEATHING FOR VENTING. VENTING MUST OCCUR IN EACH JOIST SPACE. WHERE CONTINUOUS VENTING WITHIN A JOIST SPACE IS INTERRUPTED BY A HEADER (I.E. AT A SKYLIGHT OR HIP END), PROVIDE (2) I I/2" VENTING HOLES AT THE TOP OF THE RAFTER AT THE HEADER TO ALLOW FOR CONTINUAL
- THROUGH-VENTING INTO THE NEXT JOIST SPACE.

 3. CEILINGS TO HAVE INSULATION BAFFLES. BAFFLES ARE TO EXTEND 6" ABOVE BATT INSULATION, 12" ABOVE BLOWN INSULATION.
- B. WALLS (R-21 INSULATION, U.O.N.)
- I. RIGID BOARD INSULATION IS TO BE PLACED BEHIND ALL RECESSED FIXTURES IN EXTERIOR WALLS.
- 2. INSULATE BEHIND TUB/SHOWER PARTITIONS AND CORNERS.
- C. FLOORS (R-30 BATT, U.O.N.)
- I. FACED BATTS ARE LAPPED AND SHALL BE FACE STAPLED TO FACE OF JOISTS.
- D. SOUND INSULATION

 I. PROVIDE 3 I/2" FRICTION FIT SOUND INSULATION BATTS AS NOTED ON PLANS AND AROUND ALL WASTE PLUMBING, FRAMED WALLS & FLOORS
- 2. PROVIDE FULL DEPTH SOUND INSULTION BATTS IN ALL INTERMEDIATE FRAMED FLOORS AND IN BATHROOM
- GENERAL
- I. INSULATION SHALL BE PROVIDED WITH CLEARANCES FOR VENTING, CHIMNEYS, LIGHTS, FANS, ETC. IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

MOISTURE CONTROL

- I. ATTIC ACCESS AND CRAWL SPACE ACCESS DOORS ARE TO BE BAFFLED, WEATHER-STRIPPED, AND INSULATED.
- 2. EXTERIOR DOORS AND WINDOWS ARE TO BE CAULKED AND WEATHER-STRIPPED.
- RECESSED LIGHT FIXTURES TO LIMIT AIR LEAKAGE PER WSEC 502.4.4
 ALL PLUMBING, ELECTRICAL, AND HVAC PENETRATIONS IN FLOORS, WALLS, AND CEILINGS ARE TO BE
- CAULKED AND SEALED.

 5. ELECTRICAL OUTLET AND LIGHT SWITCH BOXES ON EXTERIOR WALLS MUST BE SEALED AT THE BACK
- ELECTRICAL OUTLET AND LIGHT SWITCH BOXES ON EXTERIOR WALLS MUST BE SEALED AT THE BACK OF THE RECEPTACLE WITH A FACE PLATE GASKET.
- 6. SILLPLATE TO BE CAULKED OR GLUED TO SUB-FLOOR.
- 7. CAULK/SEAL RIM JOISTS BETWEEN STORIES.8. WHEN PENETRATIONS NEED FIRESTOPPING, REVEAL AND DISCUSS WITH BUILDING DEPARTMENT
- 9. AN APPROVED VAPOR BARRIER SHALL BE INSTALLED AT EXTERIOR WALLS (EXCEPT FOR BASEMENT WALLS PER WA. ENERGY CODE PRESCRIPTIVE CHECKLIST, SECTION R402.2.8), ROOF DECKS, BELOW ENCLOSED JOIST SPACES WHERE CEILING FINISHES ARE DIRECTLY INSTALLED TO JOISTS, AND ANY OTHER WALL OR CEILING SURFACE WHICH RECEIVES INSULATION, . THE VAPOR BARRIER MAY BE COMPONENT OF THE INSULATION MATERIAL. APPLICATION AND INSTALLATION OF INSULATION AND VAPOR BARRIERS SHALL COMPLY WITH APPLICABLE CODES.
- IO. WHEN GYPSUM IS USED AS A BASE FOR TILE OR PANELS FOR TUB, SHOWER OR WATER CLOSET COMPARTMENT WALLS, WATER RESISTANT GYPSUM BACKING SHALL BE USED. REGULAR GYPSUM WALLBOARD IS PERMITTED UNDER TILE OR WALL PANELS IN OTHER WALL AND CEILING AREAS WHEN INSTALLED IN ACCORDANCE WITH TABLE 25-6 AND TILE COUNCIL OF AMERICA STANDARDS WATER RESISTANT GYPSUM BOARD SHALL NOT BE USED IN THE FOLLOWING AREAS:
 - A) OVER A VAPOR BARRIER.
 B) IN AREAS SUBJECT TO CONTINUOUS HUMIDITY, SUCH AS SAUNAS, STEAM ROOMS OR TILED SHOWER ROOMS.
 C) ON CEILINGS WHERE FRAME SPACING EXCEEDS 12 INCHES ON CENTER
- II. USE INSTALLATION METHOD "AI" AS DESCRIBED IN "FORTIFIBER" BUILDING PRODUCT SYSTEMS INSTALLATION GUIDE FOR DOORS AND WINDOWS

FIRE PROTECTION

IPROVIDE FIRE PROTECTION AT ALL PENETRATIONS OF FIRE-RATED ELEMENTS AS REQUIRED BY CODE AND/OR BUILDING OFFICIAL.

IPROVIDE FIRE SPRINKLER SYSTEM THROUGHOUT RESIDENCE IN COMPLIANCE WALL ALL APPLICABLE CODES.

FINISHES

- I. ALL PAINT, WALL COVERINGS AND WALL PANELS SHALL BE APPLIED IN ACCORDANCE WITH THE
- 2. SAMPLES OF ALL FINISH COLORS SPECIFIED SHALL BE SUBMITTED FOR APPROVAL TO THE
- ARCHITECT PRIOR TO COMMENCEMENT OF THE WORK.

LEVEL AREA FOR FLOORING INSTALLATION AND LEVEL FLOORING TRANSITIONS.

CLOSET DOOR OPENS, U.O.N.

4. PREPARE FLOOR PER FLOORING AND CARPET MANUFACTURER'S RECOMMENDATIONS TO PROVIDE

3. FLOOR COVERING IN CLOSETS SHALL BE THE SAME AS THAT OF THE SPACE UNTO WHICH THE

MILLWORK

MANUFACTURER'S RECOMMENDATIONS

- I. ALL MILLWORK (WOODWORK AND CABINETRY) SPECIFIED ON THESE DRAWINGS SHALL BE FURNISHED AND INSTALLED BY THE MILLWORK CONTRACTOR(S) U.O.N.
- 2. MILLWORK CONTRACTOR SHALL BE RESPONSIBLE FOR FINISHING ALL MILLWORK IN HIS/HER SHOP. FINISH SHALL MATCH SAMPLE TO BE PROVIDED BY ARCHITECT IN COLOR AND GLOSS LEVEL. DO NOT FIELD
- 3. MILLWORK CONTRACTOR SHALL SUBMIT (2) FINISH SAMPLES FOR ARCHITECT PRIOR TO FABRI-

THAT HAVE BEEN FABRICATED WITHOUT APPROVED SHOP DRAWINGS.

- 4. MILLWORK CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND SPECIFICATIONS FOR ARCHITECT APPROVAL PRIOR TO FABRICATION. ARCHITECT RESERVES THE RIGHT TO REJECT ANY MILLWORK ITEMS
- 5. ALL MATERIALS AND WORKMANSHIP MUST BE EQUAL IN ALL RESPECTS TO THE STANDARDS SET FORTH IN THE ARCHITECTURAL WOODWORK QUALITY STANDARDS AND ARCHITECTURAL WOODWORK INSTITUTE (A.W.I.), MOST CURRENT EDITION.
- 6. PLYWOOD SHALL BEAR THE GRADE AND TRADEMARK IDENTIFICATION OF THE AMERICAN PLYWOOD ASSOCIATION (A.P.A.). PLYWOOD 3/4" THICK U.O.N.
- 7. ALL VENEERS WITHIN PANEL FACES SHALL BE ONE PIECE FLITCHES. SHOULD JOINTS BE REQUIRED, THEY SHALL BE END MATCHED AND/OR SLIP MATCHED AS APPROVED BY ARCHITECT.

 8.HAND SELECT ALL EXPOSED HARDWOODS, SOLID STOCK AND VENEERS FOR GRAIN APPEARANCE CON-
- SHOW GRAIN VARIATION PRIOR TO PROCEEDING.

 9. PROVIDE CUT-OUTS IN MILLWORK AS DETAILED AND REQUIRED FOR ALL PLUMBING FIXTURES, KITCHEN EQUIPMENT, AND ELECTRICAL ITEMS BASED ON INFORMATION SUPPLIED FROM THE PLUMBING AND

FORMING TO ARCHITECT'S APPROVED SAMPLES. SUBMIT SAMPLES TO ARCHITECT FOR APPROVAL TO

- ELECTRICAL CONTRACTORS. VERIFY ALL REQUIREMENTS PRIOR TO FABRICATION.

 10.CUT-OUTS AND OPENINGS FOR ALL KITCHEN EQUIPMENT SHALL FOLLOW TEMPLATES OBTAINED FROM FOUIPMENT INSTALLERS
- II. SPECIAL METAL WORK AND FINISHING ITEMS SHALL BE FABRICATED BY COMPETENT MECHANICS SKILLED IN METAL WORK, WORKMANSHIP SHALL BE EQUAL IN ALL RESPECTS TO THE BEST QUALITY FOR THIS TYPE OF WORK, GRIND ALL WELDS SMOOTH.
- 12. FIT AND SECURE CABINET HARDWARE PER MANUFACTURER'S PRINTED INSTRUCTIONS. EXERCISE CAUTION NOT TO MAR OR INJURE SURFACES. REPAIR ANY AND ALL DAMAGED SURFACES TO LIKE-NEW CONDITIONS.13. GLASS MIRRORS: MIRROR-QUALITY FLOAT GLASS, I/4" THICKNESS, U.O.N.
- 14. ALL MILLWORK ELECTRICAL MATERIAL, WORKMANSHIP, AND INSTALLATION SHALL BE IN CONFORMANCE WITH APPLICABLE LOCAL, STATE, AND NATIONAL ORDINANCES AND CODES. ALL MATERIAL TO BE U.L. APPROVED.
- 15. GENERAL CONTRACTOR TO FURNISH ALL WOOD BLOCKING. THIS SHALL INCLUDE BLOCKING TO SECURELY MOUNT ALL CASES, EQUIPMENT, AND ACCESSORIES INDICATED ON THE DRAWINGS.
- 16.ALL FINISHED HARDWOOD VENEERS TO BE RIFT CUT U.O.N.

FURNACE AND WATER HEATING

- I. PROVIDE SCHEDULE "C" WATER SUPPLY PIPING THROUGH OUT.
- 2.PROVIDE FROST FREE HOSE BIBS WITH ANTI-SIPHON DEVICE, SHUT OFF AND DRAIN.
- 3. ALL HEATING DUCTS IN UNCONDITIONED SPACE SHALL BE INSULATED TO A R-8 (MIN.). DUCTWORK SEAM JOINTS ARE TO BE TAPED, SEALED, AND FASTENED WITH A MINIMUM OF FASTENERS.
- 4. PROVIDE A READILY ACCESSIBLE, AUTOMATIC OR MANUAL SHUT-OFF SWITCH AND THERMOSTAT TO
- 5. WATER HEATER STORAGE TANK AND BOILERS TO BE LABELLED
- 6. WATER HEATER STORAGE TANK PLACED ON CONCRETE SLAB MUST HAVE RIGID INSULATION (R-IO) BETWEEN TANK AND FLOOR.
- 7. LAVATORIES, TUBS, AND SHOWERS SHALL HAVE FLOW RESTRICTIONS LIMITING WATER FLOW TO 2.5 G.P.M.

 8. PROVIDE A RECIRCULATING PUMP SYSTEM HOT WATER PLUMBING LINE ALL HOT WATER PIPING SHALL BE INSULATED WITH R-4 INSULATION. ALL COLD WATER PIPING IN UNCONDITIONED SPACE SHALL BE
- 9. SEISMICALLY BRACE ALL WATER HEATERS AND BOILERS

TO LISTED SPECIFICATIONS.

- IO. APPLIANCES DESIGNED TO BE IN A FIXED POSITION SHALL BE SECURELY FASTENED IN PLACE.
 SUPPORTS FOR APPLIANCES SHALL BE DESIGNED AND CONSTRUCTED TO SUSTAIN VERTICAL AND
 HORIZONTAL LOADS WITHIN THE STRESS LIMITATION IN THE BUILDING CODE.
- II. APPLIANCES INTENDED FOR ISTALLATION IN CLOSETS, ALCOVES OR CONFINED SPACES SHALL BE SO
- LISTED.

 12. ALL WARM AIR FURNACES SHALL BE LISTED AND LABELED BY AN APPROVED AGENCY AND INSTALLED
- 13. NO WARM AIR FURNACE SHALL BE INSTALLED IN A CLOSET OR ALCOVE LESS THAN 12 INCHES WIDER THAN THE FURNACE OR FURNACES INSTALLED THEREIN WITH A MINIMUM CLEAR WORKING SPACE LESS THAN 3 INCHES ALONG THE SIDES, BACK AND TOP OF THE FURNACE.
- 14. HEATING EQUIPMENT LOCATED WITHIN THE BUILDING ENVELOPE SHALL BE THERMALLY ISOLATED FROM
- 15. APPLIANCES INSTALLED IN GARAGES OR OTHER AREAS THAT MAY BE SUBJECTED TO MECHANICAL DAMAGE, SHALL BE SUBSTANTIALLY GUARDED AGAINST SUCH DAMAGE BY BEING INSTALLED BEHIND PROTECTIVE BARRIERS OR BY BEING ELEVATED OR LOCATED OUT OF THE NORMAL PATH OF VEHICLES.
- 16. HEATING AND COOLING EQUIPMENT LOCATED IN GARAGE AND WHICH GENERATES A GLOW, SPARK, OR FLAME CAPABLE OF IGNITING FLAMMABLE VAPOR SHALL BE INSTALLED WITH THE PILOTS AND BURERS OR HEATING ELEMENTS AND SWITCHES AT LEAST 18 INCHES ABOVE THE FLOOR LEVEL.
- 17. GAS FURNACE TO HAVE MINIMUM AFUE OF 94%

VENTILATION NOTES

ALL MECHANICAL SYSTEMS SHALL COMPLY WITH TITLE 24, INT'L MECHANICAL CODE AND INT'L

- I. SOURCE-SPECIFIED VENTILATION REQUIREMENTS
- A. EXHAUST FAN REQUIREMENTS
 -BATHS, LAUNDRIES, AND POWDER ROOMS: 50 C.F.M. AT 025 W.G. MIN.
 -KITCHENS: 100 C.F.M. AT 025 W.G. MIN.
- B. EXHAUST DUCT REQUIREMENTS
 -BE INSULATED TO R-4 IN UNCONDITIONED SPACES.
 -BE EQUIPPED WITH A BACK DRAFT DAMPER.

VENTILATING AREA PER 150 SQ. FT. SPACE VENTILATED.

- -TERMINATE OUTSIDE THE BUILDING.

 2. DESIGN / BUILD WHOLE HOUSE VENTILATION SYSTEM TO BE PROVIDED
- 3. UNDER FLOOR SPACE SHALL BE VENTILATED PER IRC SECTION R408.1 W/ MIN. (1) SQ. FT. NET FREE
- 4. ATTIC AND ENCLOSED RAFTER SPACE SHALL BE VENTILATED PER IRC 806.1 W/ MIN. (I) SQ. FT. NET FREE VENTILATING AREA PER ISO SQ. FT. SPACE VENTILATED WITH WITH VAPOR BARRIER.

MECHANICAL/ ELECTRICAL/ PLUMBING

- I. NO PENETRATIONS OF PLUMBING OR ELECTRICAL OR MECHANICAL ALLOWED IN STAIR ENCLOSURES.

 2. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND PROPER FUNCTION OF
- PLUMBING, HVAC AND ELECTRICAL SYSTEMS. THE GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY PLAN CHANGES REQUIRED FOR PROPER DESIGN AND FUNCTION OF PLUMBING, HVAC AND ELECTRICAL.
- 3.MECHANICAL AND ELECTRICAL CONTRACTORS SHALL BE RESPONSIBLE FOR MAINTAINING COMPLIANCE WITH APPLICABLE CODES AND STANDARDS. OBTAIN ALL NECESSARY PERMITS AND APPROVALS.
- 4.DEVIATIONS FROM DIMENSIONED LOCATIONS MUST BE APPROVED BY THE ARCHITECT.
- 5. SPECIAL MOUNTING HEIGHTS FOR ELECTRICAL OUTLETS ARE NOTED ADJACENT TO THE OUTLET.
 6. DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONTRACT DOCUMENTS SHOULD BE CALLED TO
- THE ATTENTION OF THE ARCHITECT.
- 7. CONTRACTOR TO COORDINATE AND INSTALL ELECTRICAL SERVICE ENTERANCE.

 8. DUCT SYSTEMS SHALL BE OF METAL PER <u>S.M.C. TABLE 603.4</u> OR FACTORY-MADE DUCTS COMPLYING WITH S.M.C. <u>SECTIONS 603</u>, ALL JOINTS AND SEAMS SHALL BE SUBSTANTIALLY AIRTIGHT. DUCTS IN UNHEATED
- SPACES SHALL BE INSULATED PER WSEC TABLE 5-1.

 9. MOISTURE EXHAUST DUCTS FOR CLOTHES DRYERS SHALL TERMINATE ON THE OUTSIDE OR THE BUILDING AND SHALL BE EQUIPPED WITH A BACK-DRAFT DAMPER. SCREENS SHALL NOT BE INSTALLED AT THE DUCT TERMINATION. DUCTS FOR EXHAUSTING CLOTHES DRYERS SHALL NOT BE CONNECTED OR INSTALLED WITH SHEET METAL SCREWS OR OTHER FASTENERS WHICH WILL OBSTRUCT THE FLOW. CLOTHES

DRYERS MOISTURE EXHAUST DUCTS SHALL NOT BE CONNECTED TO A GAS VENT OR CHIMNEY. CLOTHES

- DRYER MOISTURE EXHAUST SHALL NOT EXTEND THROUGH DUCTS OR PLENUMS.

 10. LENGTH LIMITATION, UNLESS OTHERWISE PERMITTED OR REQUIRED BY THE DRYER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND APPROVED BY THE LOCAL BUILDING OFFICIAL, DOMESTIC DRYER MOISTURE EXHAUST DUCTS SHALL NOT EXCEED A TOTAL COMBINED HORIZONTAL AND VERTICAL
- LENGTH OF 35 FEET. 2 I/2 FEET DEDUCTED FOR EACH 45 DEGREE BEND AND 5 FEET FOR EACH 90 DEGREE BEND. IRC SECTION MI502.4.5.I

 II. UNLESS OTHERWISE ADOPTED BY LOCAL AUTHORITIES, ALL SOLID FUEL BURNING APPLIANCES SHALL
- COMPLY WITH THE PROVISIONS OF IRC CHAPTER 17, 18, AND SECTION MISO6.

 12. LISTED APPLIANCES: THE INSTALLER SHALL LEAVE THE MANUFACTURER'S INSTALLATION INSTRUCTIONS ATTACHED TO THE APPLIANCE. CLEARANCES OF LISTED APPLIANCES FROM COMBUSTIBLE MATERIALS
- SHALL BE AS IN THE LISTING OR ON THE RATING PLATE. IRC SECTION MISO7.1 & MI4O1.1

 13. EVERY APPLIANCE DESIGNED TO BE VENTED SHALL BE CONNECTED TO A VENTING SYSTEM COMPLYING
- WITH <u>IRC CHAPTER 15</u>

 14. EVERY FACTORY BUILT CHIMNEY, TYPE L VENT, TYPE B GAS VENT, OR TYPE BW GAS VENT SHALL BE INSTALLED IN ACCORDANCE WITH THE TERMS OF ITS LISTING, MANUFACTURER'S INSTRUCTIONS, AND THE APPLICABLE PROVISIONS OF <u>IRC CHAPTER 18</u>.

15. VENT CONNECTORS SHALL BE INSTALLED WITHIN THE SPACE OR AREA IN WHICH THE APPLIANCE IS

LOCATED AND SHALL BE CONNECTED TO A CHIMNEY OR VENT IN SUCH A MANNER AS TO MAINTAIN THE CLEARANCE TO COMBUSTIBLES PER IRC CHAPTER 18, AND SECTION 62427

16. TYPE B AND BW GAS VENTS SHALL TERMINATE AS FOLLOWS PER IRC SECTION G2421.6(503.6)

- IT. GAS VENT CAPS HAVING AN INTERNAL DIAMETER GREATER THAN I2 INCHES SHALL TERMINATE NOT LESS THAN 2 FEET ABOVE THE HIGHEST POINT WHERE THE VENT PASSES THROUGH THE ROOF AND NOT LESS THAN 2 FEET ABOVE OR IO FEET AWAY FROM ANY OTHER PORTION OF A BUILDING WHICH EXTENDS
- AT AN ANGLE MORE THAN 45 DEGREES UPWARD FROM THE HORIZONTAL

 18. GAS VENT CAPS HAVING AN INTERNAL DIAMETER OF 12 INCHES OR LESS SHALL TERMINATE AT LEAST 2 FEET ABOVE OR 8 FEET AWAY FROM ANY PORTION OF A BUILDING WHICH EXTENDS AT AN ANGLE MORE THAN 45 DEGREES UPWARD FROM THE HORIZONTAL.GAS VENT CAPS MAY TERMINATE IN ACCORDANCE WITH TABLE 8-A, PROVIDED THAT IN NO CASE SHALL ANY DISCHARGE OPENING ON THE
- 19. PROVIDE COMBUSTION AIR FOR FUEL BURNING APPLIANCES PER IRC CHAPTER 17. APPLIANCES LOCATED WITHIN THE BUILDING ENVELOPE SHALL OBTAIN COMBUSTION AIR FROM OUTDOORS.

CAP BE LESS THAN 2 FEET HORIZONTALLY FROM THE ROOF SURFACE.

Т



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PERMIT SET

Date:

Project Title:

Revisions:

Modifications to

AWLER RESIDENCE
8456 N MERCER WAY,

Sheet Title:

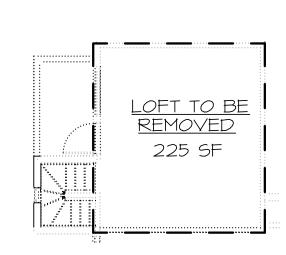
GENERAL NOTES

Scale: NOT TO SCALE

Date: 06/30/2020

Sheet Number:

T4 0





- NEW BASEMENT ADDITION 14 SF

PARAGON DAY STOOKE

CRAWL SPACE

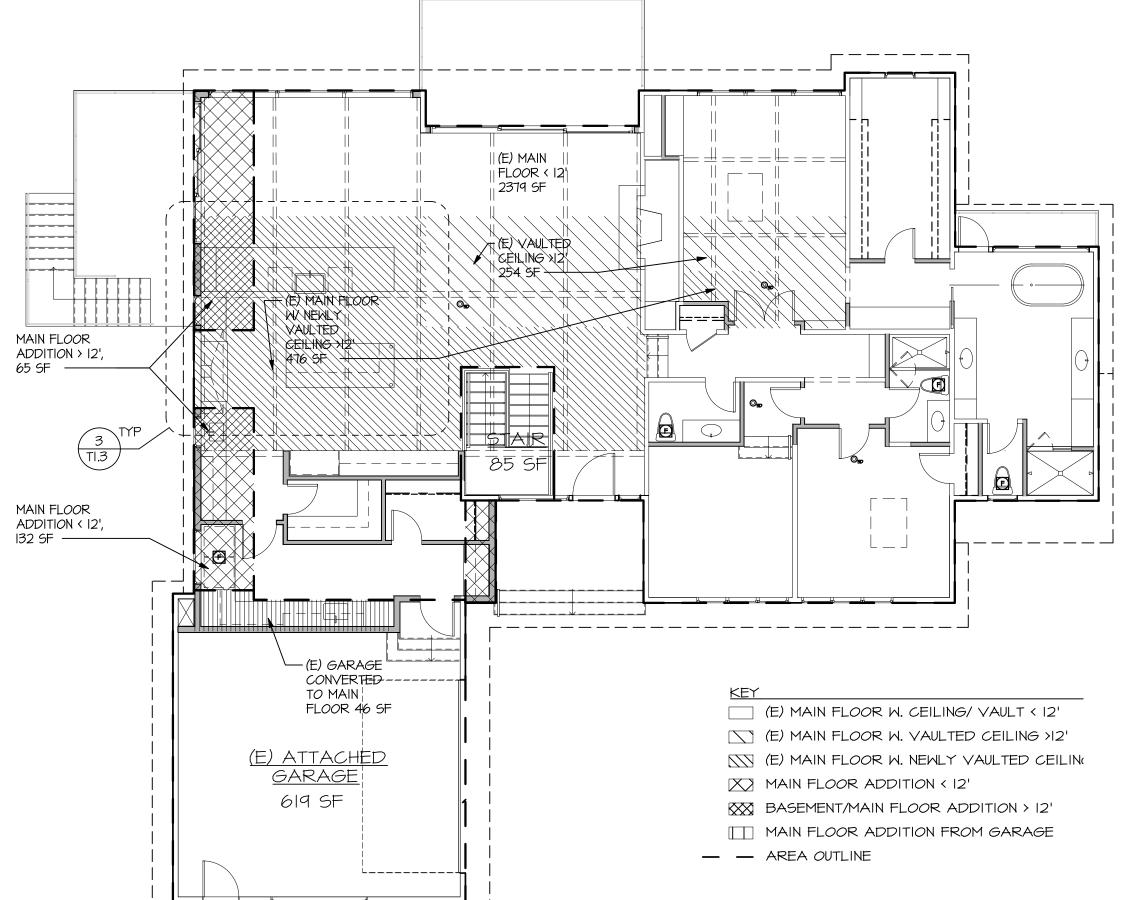
L_____

GROSS FLOOR AREA CALCULATION

LOT AREA = 16,866 SF ALLOWED GROSS FLOOR AREA: ALLOWED GROSS FLOOR AREA: 40% 0.4 (16,866 SF) = 6746.4 225 SF
227 SF
227 SF
228 SF
2294 SF
(E) MAIN FLOOR GFA > 12'
(E) MAIN FLOOR GFA NEWLY VAULTED> 12'
(E) GARAGE FLOOR AREA
(E) GARAGE FLOOR AREA
(E) GARAGE FLOOR AREA
(B) GARAGE
(C) GARAGE
(C) SEMENT ADDITION
(C) SEM NEW BASEMENT ADDITION (12'
NEW MAIN FLOOR ADDITION(12'
NEW MAIN FLOOR ADDITION >12'

(65 SF) 1.5 = 97.5 SF

TOTAL GROSS FLOOR AREA: 60 2255F-2255F+22945F-4765F+3815F+(6195F-46SF)+46SF+1502SF+85SF+117SF+178SF+97.5SF+714SF = 5465.5 SF 5465.5 SF < 6746.4 SF (5465.5 SF /16866 SF) 100% = 32.40 = 32%





NEW BASEMENT ADDITION 103 SF —

r-----₁

(E) BASEMENT 1502 SF

CRAWL SPACE

्रीकार के राष्ट्र राज्या रहा करा रहिता है। इस स्वराधकार के स्वराधकार के स्वराधकार करा है। इस स्वराधकार करा स्व

GARAGE SLAB

FIRST FLR. ADD./MODIFICATION

SCALE: 1/8" = 1'-0"

PERMIT

SET

Revisions:

Project Title:

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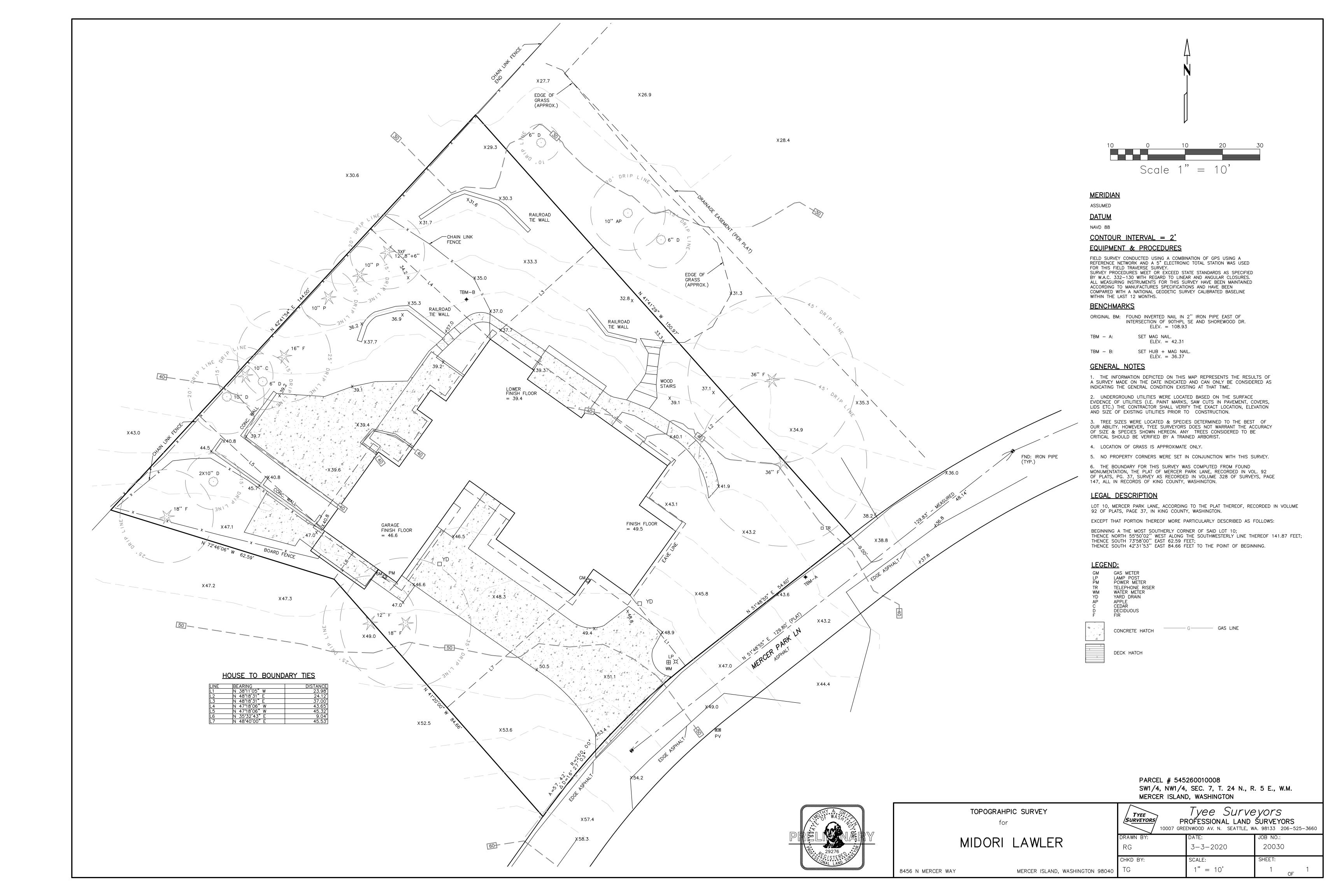
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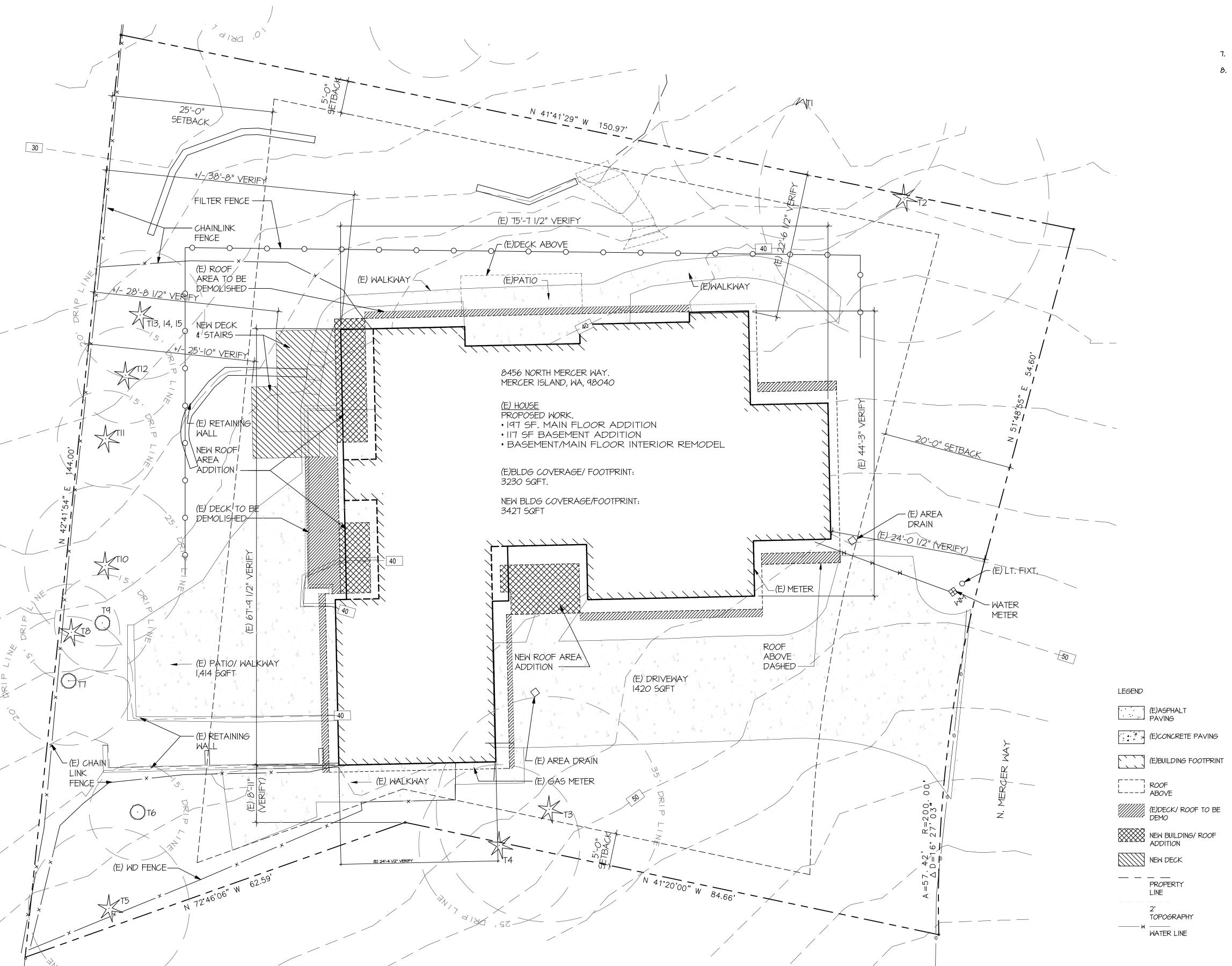
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Sheet Title: GROSS FLR. AREA PLANS & CALCS

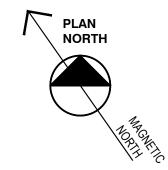
1/8" = 1'-0"

20-05 Date: 06/30/2020









GENERAL SITE PLAN NOTES:

- ALL INTERIOR DIMENSIONS ARE TO FACE OF FINISH, U.O.N.
 ALL EXTERIOR DIMENSIONS ARE TO FACE OF STUD OR FACE OF CONCRETE, U.O.N..
- REFER TO SURVEY SHEET FOR GRADING AND SITE UTILITIES.
 CONTRACTOR TO VERIFY ANY DISCREPANCIES WITH ARCHITECT PRIOR
- TO START OF CONSTRUCTION AND CONFIRM LOCATION OF (E) UTILITIES.
- LIGHTING PROVIDED @ ALL EXTERIOR DOORS.
 PROVIDE TEMPORARY AND PERMANENT BEST MANAGEMENT PRACTICES TO CONTROL AND PREVENT EROSION, TRANSPORT OF SEDIMENT OR OTHER POLLUTANTS FROM SITE. TO INCLUDE BUT NOT LIMITED TO: MINIMIZE OPEN TRENCHES AND UNCOVERED SOIL, COVER STOCKPILE SOIL, PROVIDE FILTER FABRIC FENCE AT DOWN HILL SLOPE OF CONSTRUCTION, RETAIN TOP LAYER AND NATIVE VEGETATION, PROTECT
- VEGETATION AND TREES. 7. REPLACE AND REPAIR (E) LANDSCAPING, CONCRETE AND IRRIGATION
- THAT IS DAMAGED DURING CONSTRUCTION.

 8. SITE COVERAGE INFORMATION IS INCLUDED ON MERCER ISLAND SITE
- DEVELOPMENT INFORMATION WORKSHEET AND TI.I

REGISTERED ARCHITECT

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Hephen Reed / Sing 5/17/2020 STEPHEN REED RISING STATE OF

> **PERMIT** SET

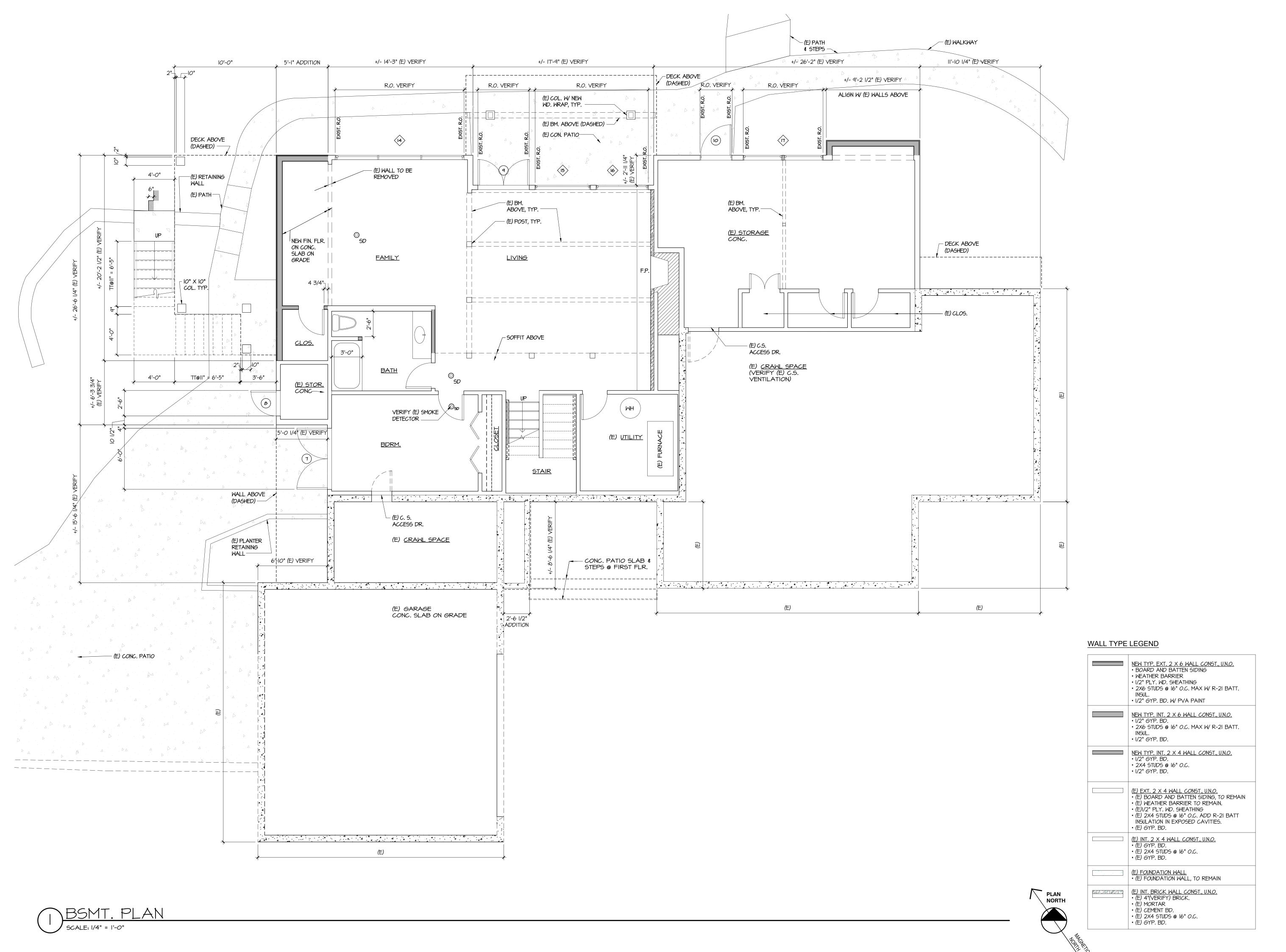
Date: Revisions:

Project Title:

Sheet Title: SITE PLAN

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20-05 Date: 06/30/2020



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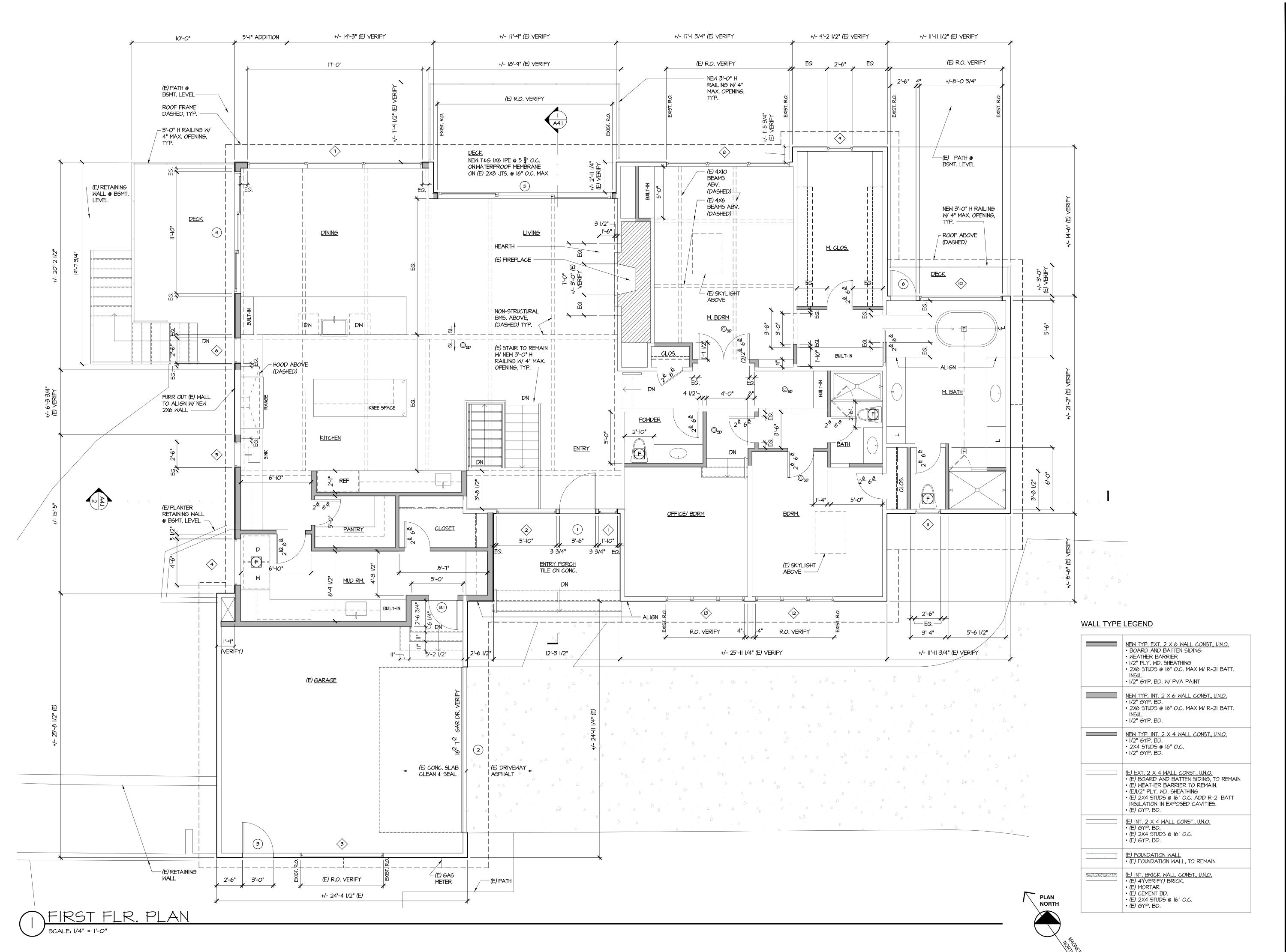
Sheet Title: BSMT. FLOOR PLAN

Scale: 1/4" = 1'-0" 20-05

Sheet Number:

Date: 06/30/2020

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Sheet Title: FIRST FLR. PLAN

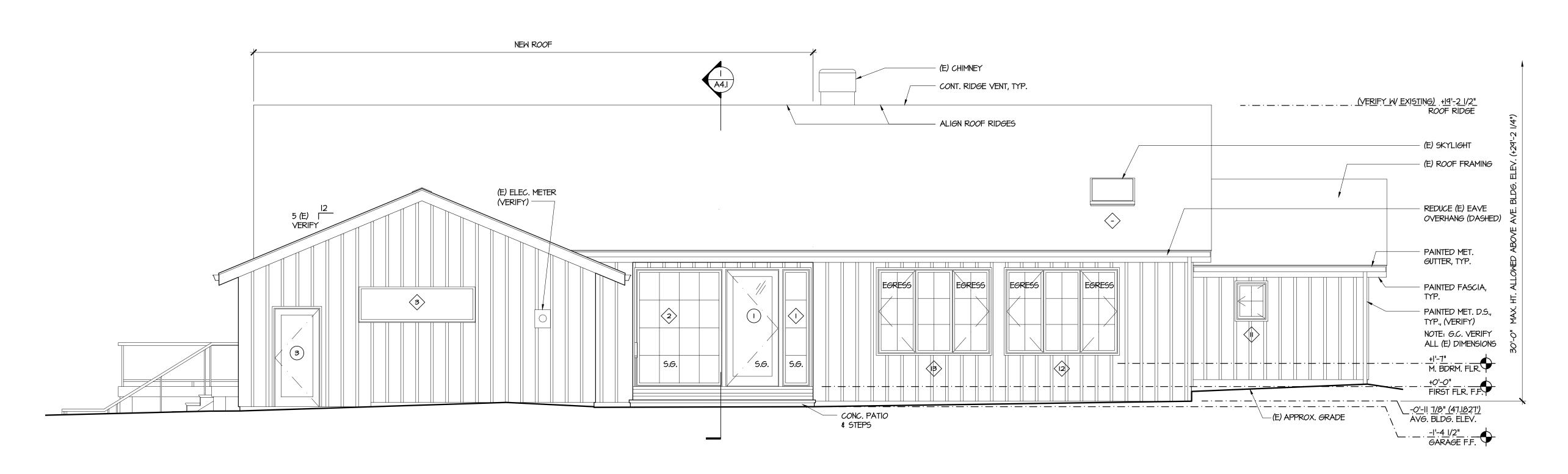
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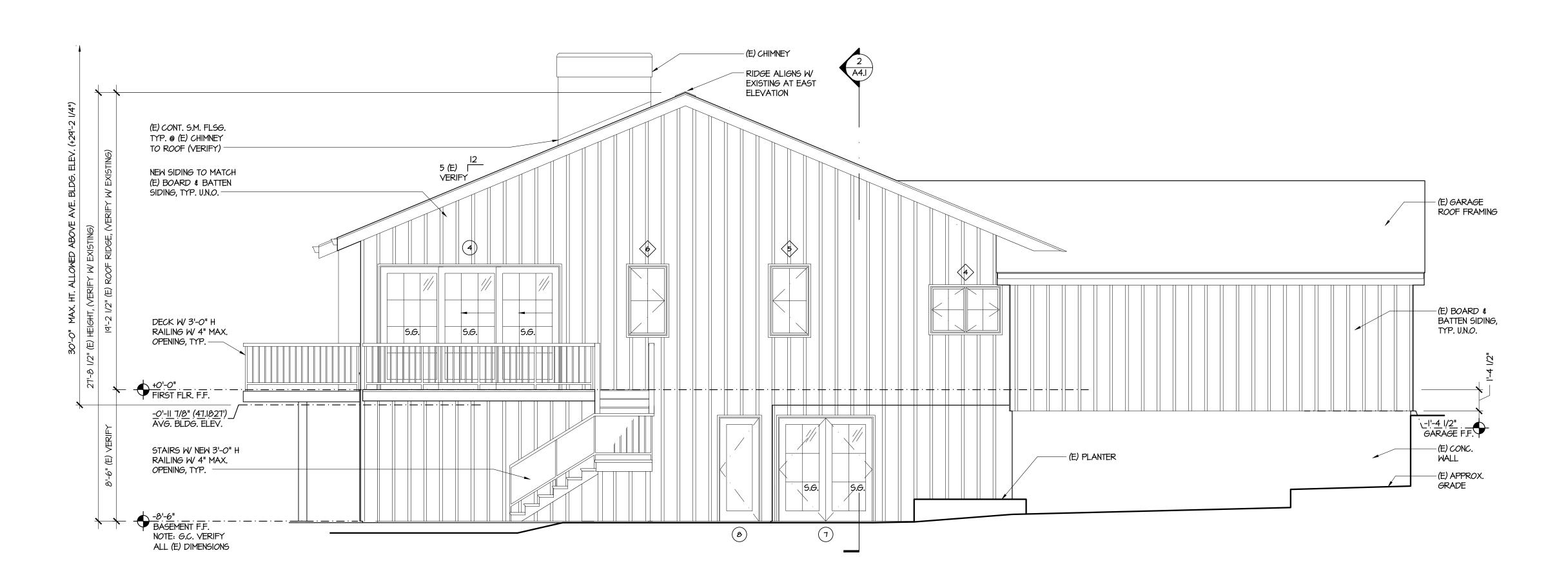
Date: 06/30/2020

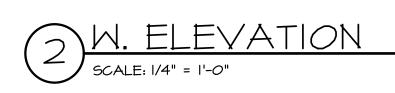
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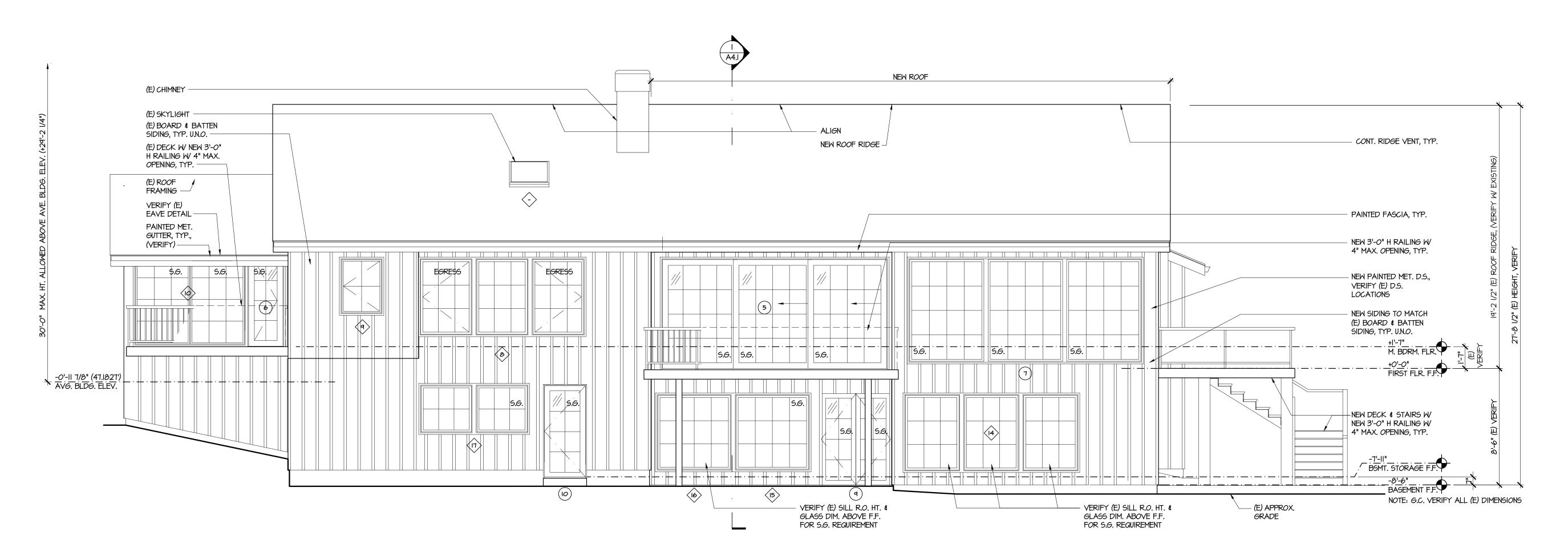
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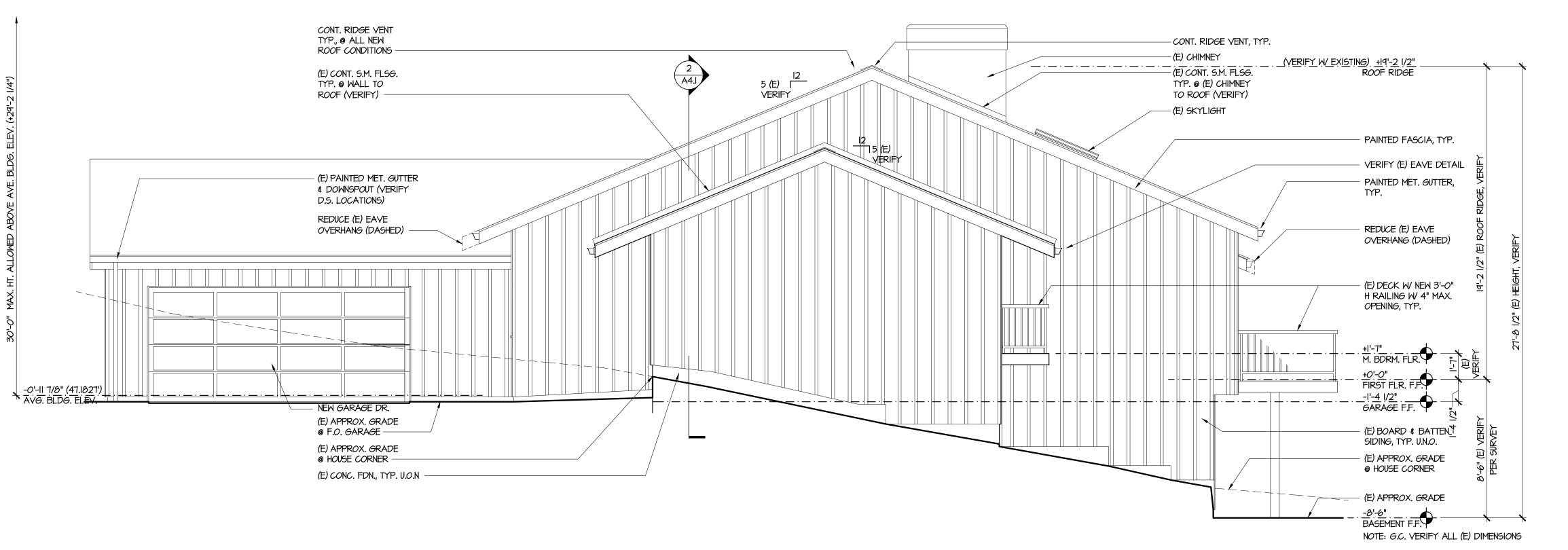
Sheet Title: EXT. ELEVATIONS

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Date: 06/30/2020 Sheet Number:



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



2 EAST ELEVATION

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



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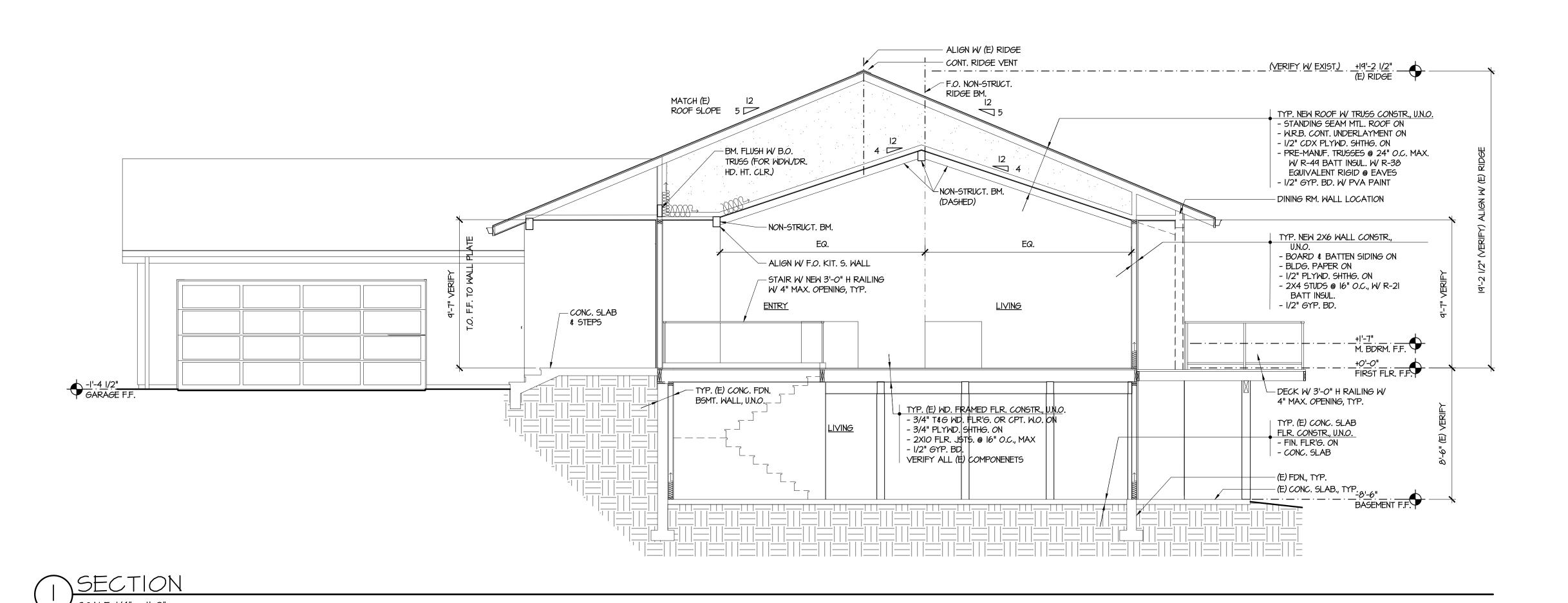
AWLER RESIDENCE 8456 N MERCER WAY,

Sheet Title: EXT. ELEVATIONS

Scale: 1/4" = 1'-0" 20-05 Date: 06/30/2020

Sheet Number:

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NEW ROOF FRAMING W/ NEW PRE-MANUF. TRUSSES MAX. HT. ALLOW. ABOVE AVE. BLDG. ELEV. TYP. NEW ROOF W TRUSS CONSTR., U.N.O. - STANDING SEAM MTL. ROOF ON (E) ROOF FRAMING - W.R.B. CONT. UNDERLAYMENT ON +19' 2 ½" (E) RIDGE - 1/2" CDX PLYWD. SHTHG. ON - PRE-MANUF. TRUSSES @ 24" O.C. MAX. W R-49 BATT INSUL. W R-38 TYP. (E) ROOF CONSTR., U.N.O. EQUIVALENT RIGID @ EAVES - NEW STANDING SEAM MTL. ROOF ON - I/2" GYP. BD. W/ PVA PAINT - ROOFING PAPER ON -1/2" PLYWD. SHTHG. ON -3/4" SKIP SHTHG. *O*N TYP. NEW EXT. 2X6 WALL CONSTR., U.N.O. - 2X6 RAFTERS @ 16" O.C. W BATT INSUL VERIFY - BOARD & BATTEN SIDING (MATCH EXIST.) ON -1/2" GYP. BD. - W.R.B. *O*N VERIFY ALL (E) COMPONENTS - I/2" CDX PLYWD. SHTHG. ON - 2X6 STUDS @ 16" O.C., MAX, W/ R-21 BATT (E) ATTIC - I/2" GYP. BD. W/ PVA PAINT TYP. (E) EXT. 2X4 WALL CONSTR., U.N.O. - BOARD & BATTEN SIDING ON NEW DECK & STAIRS W/ - BLDG. PAPER ON NEW 3'-O" H RAILING W MUD RM. PANTRY STAIRS M. BATH - I/2" PLYMD. SHTHG. ON KITCHEN ENTRY OFFICE/BDRM. BDRM. 4" MAX. OPENING, TYP. - 2X4 STUDS @ 16" O.C., W/ BATT INSUL. - 1/2" *G*YP. BD. VERIFY ALL (E) COMPONENTS +0'-0" FIRST FLR. F.F. -<u>O'-II 1/8" (+41.2')</u> AVG. BLDG. ELEV. -(E) STAIR W/ NEW 3'-0" H TYP. NEW WD. FRAMED FLR. CONSTR., U.N.O. - 3/4" T&G WD. FLR'G. OR CPT. W.O. ON RAILING W/ 4" MAX. OPENING, TYP. TYP. (E) WD. FRAMED FLR. CONSTR., U.N.O. - 3/4" PLYWD. SHTHG. ON (E) CRAWL SPACE - 3/4" T&G WD. FLR'G. OR CPT. W.O. ON - 2XIO FLR. JSTS. @ 16" O.C., MAX (E) UTILITY - 3/4" PLYWD. SHTHG. ON - I/2" GYP. BD. W/ PVA PAINT | ||- - 4 - - - 4 | - 2XIO FLR. JSTS. @ 16" O.C., MAX ------ 1/2" *G*YP. BD. |-----TYP. (E) CONC. SLAB FLR. CONSTR., U.N.O. | |- - - - - - - | VERIFY ALL (E) COMPONENETS - FIN. FLR'G. ON F------ CONC. SLAB -----



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MERCER ISLAND, WA, 98040

Sheet Title: BLDG. SECTIONS

NOT TO SCALE *20-0*5

Date: 06/30/2020

	e Remodel & Addition		hitect: TCA	Architecture Way NE Seattle	N/A 0011E
Mercer Island, W	56 N. Mercer Way 'A 98040			(attn: Stephen R	
	tate Energy Code requireme dels) do not need to obtai				
	et the requirements for new conditioned space.	construction. T	his includes	nonconditioned	space being
II the wall cavit	ies be exposed?	es le No			
If yes:	Exposed wall cavities must 2 X 4 wall studs r 2 X 6 wall studs r	be insulated - equire R-15 insu	ulation		
Il the roof/ceilir	ng framing cavities or attic	be exposed?	<mark></mark> ✓ Ye	s BNo	o .
If yes:	Exposed roof/ceiling assen Vaulted ceilings:	Insulate to the	e full depth o	f the framing me mum 1" ventilate	
	Flat ceilings:	Install R-49 in accommodate		what the attic spa he roof pitch	ce can
ll the floor fram	ing cavities be exposed?	IX:	Yes	■ No	
If yes:	Exposed floor cavities mus	be insulated to	R-30		
(includes b	and/or doors being replace oth window or door and frames)		Yes	₩ No	
	New windows and doors m				of ≤0.30
	r cooling system be repla	737 1		⋉ No	
If yes:	New equipment n ducts need to be		ent requirem	ents and	
ll the hot water	system be altered?	X Yes	₩ No		
If yes:	New water heatin	g equipment mu	ust meet cur	rent code require	ements
e more than 50°	% of the light fixtures bein	g changed?	⋉ Yes	s Æ N	lo
If yes:	75% of all lamps (LED or		ficacy		
	ope. Building envelope assemblies to the R402.2.11, R402.3.1, R402.3.2, F			mply with Section R40	02.1.1 or R402.1.
the building 1. Storm w 2. Existing insulation. 2 of R-21. 3. Constru 4. Roof rec 5. Roofs w	The following alterations need not cois not increased: vindows installed over existing fenest, ceiling, wall or floor cavities expost x4 framed walls shall be insulated to coion where the existing roof, wall o cover. vithout insulation in the cavity and wher above or below the sheathing.	ration. ed during construction a minimum of R-15 floor cavity is not e	on provided that and 2x6 framed exposed.	these cavities are fille I walls shall be insulat	d with ed to a minimum
6. Surface-	applied window film installed on executive samples and require the glazing fenestration		nestration assem	blies to reduce solar h	eat gain provided
_	t fenestration. Where some or all of g, the replacement fenestration unit	-	_		-
3.1, R403.2, R403.3, Exception: The form 1. Addition 2. Duct systesting in according to the street of the street	ollowing need not comply with the tens of less than 750 square feet. Stems that are documented to have be cordance with procedures in WSU R	esting requirements of the previously sealed S-33.	of Section R403	3.3:	
	rith less than 40 linear feet in unconce duct systems constructed, insulated		stos.		
03.1.3 Service hot wa	ter systems. New service hot water	systems that are part	of the alteration	shall comply with Se	ction R403.4.
	lighting systems that are part of the Alterations that replace less than 50				erations do not

R503.2 Change in space conditioning. Any nonconditioned or low-energy space that is altered to become *conditioned space* shall be

required to be brought into full compliance with this code.

WINDOW/SKYLIGHT SCHEDULE

	NOMINAL UNIT SIZE	OPE	OUGH ENING	R.O. HD. HT. ABV. FINISH FL (INCLUDES	"H" FRAME HT. OF FIXED TRANSOM		FRAME	EENS		DE	TAILS			(ARGON + LOW E) NFRC CERTIFIED
#	WIDTH X HEIGHT	WIDTH	HEIGHT	TRANSOM W.O.)	(FACTORY MULL TO UNIT BELOW)	TYPE	EXT. / INT.	% RS	HEAD	JAMB	MULL	SILL	REMARKS	U-VALUE
I	3'-6"x 7'-11½"	3'-63"	8'-0 ³ "	8'-14"		FIXED W S.D.L., S.G.	ALUM. CLAD / WD.						HD. HT. ALIGNS W DR.	0.27
2	5'-104"X 7'-11½"	5'-11"	8'-03"	8'-14"		FIXED W S.D.L., S.G.	ALUM. CLAD / WD.						HD. HT. ALIGNS W DR.	0.27
3	+/-8'-0"x +/-2'-4½" VERIFY (E.) OPNG.	(E) VERIFY	(E) VERIFY	(E) VERIFY		FIXED	ALUM. CLAD / WD.						VERIFY(E) R.O. & UNIT SIZE	0.27
4	4'-6"x 3'-0"	4'-63"	3'-14"	6'-9\frac{1}{4}"		CSMNT./CSMNT. W/ S.D.L.	ALUM. CLAD / WD.						FACTORY MULL	0.29
5	2'-6"x 4'-6"	2'-63"	4'-74"	8'-14"		CSMNT. W/ S.D.L.	ALUM. CLAD / WD.							0.29
6	2'-6"x 4'-6"	2'-63"	4'-74"	8'-14"		CSMNT. W/ S.D.L.	ALUM. CLAD / WD.							0.29
7	17'-0"x 7'-6½"	17'-03"	7'-73"	8'-14"		FIXED W S.D.L., S.G.	ALUM. CLAD / WD.							0.27
8	+/-12'-0"x +/-5'-63# VERIFY (E.) OPNG.	(E) VERIFY	(E) VERIFY	(E) VERIFY		CSMNT./FIXED/CSMNT. W/ S.D.L., S.G.	ALUM. CLAD / WD.						EGRESS / FACTORY MULL	0.29
9	2'-6"x 4'-0"	2'-63"	4'-14"	6'-94"		CSMNT. W/ S.D.L.	ALUM. CLAD / WD.						FACTORY MULL	0.29
10	8'-03"x 6'-7½"	8'-1½"	6'-83"	6'-94"		FIXED/FIXED W/ S.D.L.	ALUM. CLAD / WD.							0.27
Ш	2'-0"x 2'-6"	2'-03"	2'-74"	6'-94"		CSMNT. W/ S.D.L.	ALUM. CLAD / WD.							0.29
12	+/-7'-7½"x +/-5'-8¾" VERIFY (E.) OPNG.	(E) VERIFY	(E) VERIFY	(E) VERIFY		CSMNT./FIXED/CSMNT. W/ S.D.L.	ALUM. CLAD / WD.						EGRESS / FACTORY MULL	0.29
13	+/-7'-7½"x +/-5'-8¾" VERIFY (E.) OPNG.	(E) VERIFY	(E) VERIFY	(E) VERIFY		CSMNT./FIXED/CSMNT. W/ S.D.L.	ALUM. CLAD / WD.						EGRESS / FACTORY MULL	0.29
14	+/-12'-8"x +/-5'-63" VERIFY (E.) OPNG.	(E) VERIFY	(E) VERIFY	(E) VERIFY		FIXED/FIXED/FIXED W/ S.D.L.	ALUM. CLAD / WD.							0.27
15	+/-5'-5½"x +/-5'-6¾" VERIFY (E.) OPNG.	(E) VERIFY	(E) VERIFY	(E) VERIFY		FIXED W/ S.D.L.	ALUM. CLAD / WD.							0.27
16	+/-5'-5½"x +/-5'-6¾" VERIFY (E.) OPNG.	(E) VERIFY	(E) VERIFY	(E) VERIFY		FIXED W/ S.D.L.	ALUM. CLAD / WD.							0.27
17	+/-7'-10±"x +/-3'-6" VERIFY (E.) OPNG.	(E) VERIFY	(E) VERIFY	(E) VERIFY		FIXED/FIXED W/ S.D.L.	ALUM. CLAD / WD.						FACTORY MULL	0.27

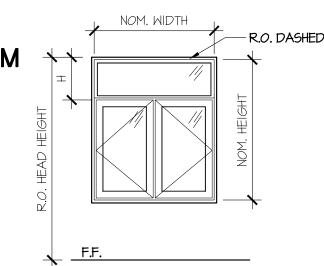
EXTERIOR DOOR SCHEDULE

	NOMINAL SIZE	ROUGH	OPENING	"H" FRAME HT. OF					DETAILS		<u> </u>		NFRC
#	WIDTH x HEIGHT	WIDTH	HEIGHT (ABV. FIN. FLR)	(FACTORY MULL TO UNIT BELOW)	TYPE	THK.	FRAME	FINISH		JAMB		REMARKS	U-VALUE
1	3'-6"x 8'-0"	3'-8"	8'-1½"		SINGLE			MD./ALUM. CLAD				INSWING, FULL GLAZED TEMPERED	0.30
2	16'-0"x 7'-0"	VERIFY	VERIFY		OVERHEAD GARAGE			ALUMINUM				OVERHEAD, GLAZED, TEMP. (E) OPENING	
3	3'-0"x 6'-8"	3'-2"	6'-9½"		SINGLE			WD. / PT.				INSWING, NOT GLAZED	0.20
3.1	2'-10"x 6'-8"	3'-0"	6'-9½"		SINGLE			WD. / PT.				OUTSWING, NOT GLAZED, 20 MIN. SOLID CORE	0.20
4	(3 LEAF) II'-IO"x 8'-0"	12'-0"	8'-12"		(3) LEAF SLIDE			WD./ALUM. CLAD				(3) LEAF, SLIDING FULL GLAZED TEMP.	0.30
5	(3 LEAF) 17'-0"x 8'-0"	VERIFY	VERIFY		(3) LEAF SLIDE			MD./ALUM. CLAD				(3) LEAF, SLIDING FULL GLAZED TEMP. (E) OPENING	0.30
6	3'-0"x 6'-8"	3'-2½"	6'-9½"		FRENCH			WD./ALUM. CLAD				OUTSWING, FULL GLAZED TEMP.	0.30
7	(2) 3'-0"x 6'-8"	VERIFY	VERIFY		(2) FRENCH			WD./ALUM. CLAD				OUTSWING, FULL GLAZED TEMP. (E) OPENING	0.30
8	2'-6"x 6'-8"	3'-2 ½"	6'-9½"		SINGLE			WD. / PT.				OUTSWING, NOT GLAZED	0.20
9	(2) 2'-6"x 6'-8"	VERIFY	VERIFY		(2) FRENCH			MD./ALUM. CLAD				OUTSWING, FULL GLAZED TEMP. (E) OPENING	0.30
10	3'-0"x 6'-8"	VERIFY	VERIFY		SINGLE			WD. / PT.				OUTSWING, NOT GLAZED (E) OPENING	0.30

- NOTES:
 I. ALL DIMS. TO BE VERIFIED PRIOR TO CONSTR.
- 2. WEATHER SHIELD, CONTEMPORARY COLLECTION WDW.S USED FOR BASIS OF DESIGN FOR
- ALL WDW.S, TERRACE DR.S AND LIFT SLIDE DR. SYSTEMS AND ACCORDION DR. SYSTEMS.

 3. CASEMENT WINDOWS TO BE MIN. EGRESS WIDTH OF 2'-4 I/2" WITHIN CSMT. TYPE.
- 4. CRYSTALITE SKYLIGHTS USED FOR DESIGN BASIS.

WINDOW DIMENSION



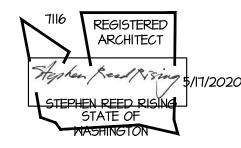
- ENERGY CALCULATION NOTES:
 2015 MSEC (ALTERATIONS), MERCER ISLAND, PRESCRIPTIVE CODE COMPLIANCE
 1. ALL VERT. GLAZING TO HAVE A MAX. U-VALUE OF 0.30
- 2. ALL OVERHEAD GLAZING IS TO HAVE A MAX. U-VALUE OF 0.50
- 3. ALL SOLID PANEL DR.S ARE TO HAVE A MAX. U-VALUE OF 0.20 (EXCEPT GLAZE DR.S,
- MAX. U-VALUE OF 0.30) 4. ALL CLG.S AT EXT. ROOFS ARE TO HAVE A MIN. INSUL. VALUE OF R-49, SINGLE RAFTER
- OR JOIST-VAULTED CLG.S MAY REDUCE INSUL. TO R-38
 5. FOR VENTED ATTICS, A BAFFLE SHALL BE INSTALLED ADJACENT TO SOFFITS AND EAVE
- 6. ALL EXT. WALLS ABOVE GRADE TO HAVE A MIN. INSUL. VALUE OF R-21
 7. ALL FRAMED FLR.S R-30
- 8. ALL BSMT. BELOW GRADE WALLS SHALL BE INSULATED PER 10/15/21+TB (WSEC, TABLE
- R402.I.I) 9. NEW HEATED SLABS ON GRADE TO HAVE CONT. MIN. INSUL. VALUE OF R-10
- 10. IF GREATER THAN 50% OF LIGHT FIXTURES REPLACED 75% OF LAMPS MUST BE LED
- II. NEW HOT WATER TANK MUST MEET CURRENT CODE REQUIREMENTS 12. NEW HVAC EQUIPMENT MUST MEET CURRENT CODE REQUIREMENTS





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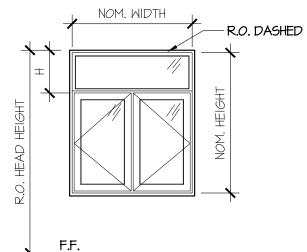
Sheet Title:

WDW./DR. SCHEDULE ENERGY CODE WORKSHEET

*20-0*5 Date: 06/30/2020

Sheet Number:

REFERENCE DIAGRAM ++



GENERAL STRUCTURAL NOTES

(THE FOLLOWING APPLY UNLESS SHOWN OTHERWISE ON THE PLANS)

I. ALL MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS, SPECIFICATIONS, AND THE INTERNATIONAL BUILDING CODE (2015

2. DESIGN LOADING CRITERIA: HANDRAILS AND GUARDS

GUARDRAILS/BALCONY RAILS RESIDENTIAL - ONE AND TWO-FAMILY DWELLINGS FLOOR LIVE LOAD MISCELLANEOUS LOADS .. I.5 x AREA SERVED DEFLECTION CRITERIA LIVE LOAD DEFLECTION TOTAL LOAD DEFLECTION ENVIRONMENTAL LOADS Ce=1.0, Is=1.0, Ct=1.1, Pq=25 PSF, Pf=20 PSF SNOW. GCp1=0.18, 110 MPH, RISK CATEGORY II, EXPOSURE "C", Kzt=1 EARTHQUAKE . ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE LATERAL SYSTEM: LIGHT FRAMED SHEAR WALLS, SITE CLASS=D, Ss=1.375, Sds=0.92, SI=0.529, SDI=0.529, Cs=0.141, SDC D, Ie=1.0, R=6.5

SEE PLANS FOR ADDITIONAL LOADING CRITERIA

- 3. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS FOR BIDDING AND CONSTRUCTION. ARCHITECTURAL DRAWINGS ARE THE PRIME CONTRACT DRAWINGS. ANY DISCREPANCIES FOUND AMONG THE DRAWINGS, THE SPECIFICATION, THESE GENERAL NOTES AND THE SITE CONDITIONS SHALL BE REPORTED TO THE ARCHITECT, WHO SHALL CORRECT SUCH DISCREPANCY IN WRITING. ANY WORK DONE BY THE GENERAL CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCY SHALL BE DONE AT THE GENERAL CONTRACTOR'S RISK.
- 4. PRIMARY STRUCTURAL ELEMENTS NOT DIMENSIONED ON THE STRUCTURAL PLANS AND DETAILS SHALL BE LOCATED BY THE ARCHITECTURAL PLANS AND DETAILS. VERTICAL DIMENSION CONTROL IS DEFINED BY THE ARCHITECTURAL WALL SECTIONS, BUILDING SECTION, AND PLANS. DETAILING AND SHOP DRAWING PRODUCTION FOR STRUCTURAL ELEMENTS WILL REQUIRE DIMENSIONAL INFORMATION CONTAINED IN BOTH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- 5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE CONTRACTORS WORK. THE STRUCTURAL ENGINEER HAS NO OVERALL SUPERVISORY AUTHORITY OR ACTUAL AND/OR DIRECT RESPONSIBILITY FOR THE SPECIFIC WORKING CONDITIONS AT THE SITE AND/OR FOR ANY HAZARDS RESULTING FROM THE ACTIONS OF ANY TRADE CONTRACTOR. THE STRUCTURAL ENGINEER HAS NO DUTY TO INSPECT, SUPERVISE, NOTE, CORRECT, OR REPORT ANY HEALTH OR SAFETY DEFICIENCIES TO THE OWNER, CONTRACTORS, OR OTHER ENTITIES OR PERSONS
- 6. CONTRACTOR SHALL PROVIDE TEMPORARY BRACING FOR THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE PLANS. CONFORM TO ASCE 37-14 "DESIGN LOADS ON STRUCTURES DURING CONSTRUCTION".
- 7. CONTRACTOR-INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES SHOWN ON SHOP DRAWINGS ONLY WILL NOT SATISFY THIS REQUIREMENT.
- 8. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND THE STRUCTURAL ENGINEER. ALL TYPICAL NOTES AND DETAILS SHOWN ON DRAWINGS SHALL APPLY, UNLESS NOTED OTHERWISE. TYPICAL DETAILS MAY NOT NECESSARILY BE INDICATED ON THE PLANS BUT SHALL STILL APPLY AS SHOWN OR DESCRIBED IN THE DETAILS. WHERE TYPICAL DETAILS ARE NOTED ON THE PLANS, THE SPECIFIED TYPICAL DETAIL SHALL BE USED. WHERE NO TYPICAL DETAIL IS NOTED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CHOOSE THE APPROPRIATE TYPICAL DETAIL FROM THOSE PROVIDED OR REQUEST ADDITIONAL INFORMATION. THE CONTRACTOR SHALL SUBMIT ALL PROPOSED ALTERNATE TYPICAL DETAILS TO THOSE PROVIDED WITH RELATED CALCULATIONS TO THE ENGINEER FOR APPROVAL PRIOR TO SHOP DRAWING PRODUCTION AND FIELD USE.
- 9. SHOP DRAWINGS FOR THE FOLLOWING ITEMS SHALL BE SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION OF THESE

CONNECTOR PLATE WOOD ROOF TRUSSES

CONTRACTOR SHALL SUBMIT WALL ELEVATION DRAWINGS OF AT LEAST 1/8" = 1'-0" SCALE INDICATING LOCATIONS OF CONNECTION EMBEDMENT'S AND WALL OPENINGS FOR REVIEW PRIOR TO CONSTRUCTION. CONTRACTOR SHALL COORDINATE WALL ELEVATION DRAWINGS WITH REINFORCEMENT SHOP DRAWINGS.

APPROVED SETS OF ALL SHOP DRAWINGS SHALL ALSO BE SUBMITTED TO THE BUILDING DEPARTMENT.

IO. SHOP DRAWING REVIEW: DIMENSIONS AND QUANTITIES ARE NOT REVIEWED BY THE ENGINEER OF RECORD, THEREFORE MUST BE VERIFIED BY THE CONTRACTOR. CONTRACTOR SHALL REVIEW AND STAMP DRAWINGS PRIOR TO REVIEW BY ENGINEER OF RECORD. CONTRACTOR SHALL REVIEW DRAWINGS FOR CONFORMANCE WITH THE MEANS, METHODS, TECHNIQUES, SEQUENCES AND OPERATIONS OF CONSTRUCTION, AND ALL SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO SUBMITTALS SHALL INCLUDE A REPRODUCIBLE AND ONE COPY; REPRODUCIBLE WILL BE MARKED AND RETURNED WITHIN TWO WEEKS OF RECEIPT WITH A NOTATION INDICATING THAT THE SUBMITTAL HAS BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE SUBMITTED ITEMS SHALL NOT BE INSTALLED UNTIL THEY HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

SHOP DRAWING SUBMITTALS PROCESSED BY THE ENGINEER ARE NOT CHANGE ORDERS. THE PURPOSE OF SHOP DRAWING SUBMITTALS BY THE CONTRACTOR IS TO INSTALLED AND BY DETAILING THE INTENDED FABRICATION AND INSTALLATION METHODS. IF DEVIATIONS, DISCREPANCIES, OR CONFLICTS BETWEEN SHOP DRAWING SUBMITTALS AND THE CONTRACT DOCUMENTS ARE DISCOVERED EITHER PRIOR TO OR AFTER SHOP DRAWING SUBMITTALS ARE PROCESSED BY THE ENGINEER, THE DESIGN DRAWINGS AND SPECIFICATIONS SHALL CONTROL AND SHALL BE FOLLOWED.

QUALITY ASSURANCE

II. SPECIAL INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND SECTIONS IIO AND 1705 OF THE INTERNATIONAL BUILDING CODE BY A QUALIFIED TESTING AGENCY DESIGNATED BY THE ARCHITECT, AND RETAINED BY THE BUILDING OWNER. THE ARCHITECT, STRUCTURAL ENGINEER, AND BUILDING DEPARTMENT SHALL BE FURNISHED WITH COPIES OF ALL INSPECTION AND TEST RESULTS. SPECIAL INSPECTION OF THE FOLLOWING TYPES OF CONSTRUCTION IS REQUIRED UNI ESS NOTED OTHERWISE.

CONCRETE CONSTRUCTION PER TABLE 1705.3 SOIL CONDITIONS, FILL PLACEMENT, AND DENSITY PER TABLE 1705.6 DRIVEN DEEP FOUNDATION PER TABLE 1705.7 EXPANSION BOLTS AND THREADED EXPANSION INSERTS PER MANUFACTURER EPOXY GROUTED INSTALLATIONS PER MANUFACTURER

PERIODIC INSPECTION: INSPECTION SHALL BE PERFORMED AT INTERVALS NECESSARY TO CONFIRM THAT WORK REQUIRING SPECIAL INSPECTION IS IN COMPLIANCE

CONTINUOUS INSPECTION: INSPECTOR SHALL BE ONSITE AND OBSERVE THE WORK REQUIRING INSPECTION AT ALL TIMES THAT WORK IS PERFORMED.

GEOTECHNICAL

12. FOUNDATION NOTES: ALLOWABLE SOIL PRESSURE AND LATERAL EARTH PRESSURE ARE ASSUMED AND THEREFORE MUST BE VERIFIED BY A QUALIFIED SOILS ENGINEER OR APPROVED BY THE BUILDING OFFICIAL. IF SOILS ARE FOUND TO BE OTHER THAN ASSUMED, NOTIFY THE STRUCTURAL ENGINEER FOR POSSIBLE

FOOTINGS SHALL BEAR ON FIRM, UNDISTURBED EARTH AT LEAST 18" BELOW ADJACENT FINISHED GRADE. UNLESS OTHERWISE NOTED, FOOTINGS SHALL BE CENTERED BELOW COLUMNS OR WALLS ABOVE

BACKFILL BEHIND ALL RETAINING WALLS WITH FREE DRAINING, GRANULAR FILL AND PROVIDE FOR SUBSURFACE DRAINAGE.

ALLOWABLE SOIL PRESSURE. . LATERAL EARTH PRESSURE (RESTRAINED/UNRESTRAINED)... . 55 PCF/35 PCF ALLOWABLE PASSIVE EARTH PRESSURE (FS OF 1.5 INCLUDED). . . 300 PCF COEFFICIENT OF FRICTION (FS OF 1.5 INCLUDED). ... *0.*3

RENOVATION

- 13. DEMOLITION: CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS BEFORE COMMENCING ANY DEMOLITION. SHORING SHALL BE INSTALLED TO SUPPORT EXISTING CONSTRUCTION AS REQUIRED AND IN A MANNER SUITABLE TO THE WORK SEQUENCES, DEMOLITION DEBRIS SHALL NOT BE ALLOWED TO DAMAGE OR OVERLOAD THE EXISTING STRUCTURE. LIMIT CONSTRUCTION LOADING (INCLUDING DEMOLITION DEBRIS) ON EXISTING FLOOR SYSTEMS TO 40 PSF.
- 14. CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS, MEMBER SIZES, AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS ARE INTENDED AS GUIDELINES ONLY AND MUST BE VERIFIED. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER IF EXISTING CONDITIONS DETERMINED DURING WORK VARY FROM THE EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS.
- 15. CONTRACTOR SHALL CHECK FOR DRY ROT AT ALL AREAS OF NEW WORK. ALL ROT SHALL BE REMOVED AND DAMAGED MEMBERS SHALL BE REPLACED OR REPAIRED AS DIRECTED BY THE STRUCTURAL ENGINEER OR ARCHITECT.

CONCRETE

- 16. CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED AND PLACED IN ACCORDANCE WITH ACI 301, INCLUDING TESTING PROCEDURES. CONCRETE SHALL ATTAIN A 28-DAY STRENGTH OF 1'C = 3,000 PSI AND MIX SHALL CONTAIN NOT LESS THAN 5-1/2 SACKS OF CEMENT PER CUBIC YARD AND SHALL BE PROPORTIONED TO PRODUCE A SLUMP OF 5" OR LESS, REQUIRED CONCRETE STRENGTH IS BASED ON THE DURABILITY REQUIREMENTS OF SECTION 1904 OF THE IBC. DESIGN STRENGTH
- 17. ALL CONCRETE WITH SURFACES EXPOSED TO WEATHER OR STANDING WATER SHALL BE AIR-ENTRAINED WITH AN AIR-ENTRAINING AGENT CONFORMING TO ASTM C260, C494, AND C618. TOTAL AIR CONTENT FOR FROST-RESISTANT CONCRETE SHALL BE IN ACCORDANCE WITH ACI 318-14, TABLE 19.3.2.1 MODERATE EXPOSURE, FI. 18. REINFORCING STEEL SHALL CONFORM TO ASTM A615 (INCLUDING SUPPLEMENT SI), GRADE 60, FY = 60,000 PSI
- 19. DETAILING OF REINFORCING STEEL (INCLUDING HOOKS AND BENDS) SHALL BE IN ACCORDANCE WITH ACI 315-99 AND 318-14. LAP ALL REINFORCEMENTS IN ACCORDANCE WITH "THE REINFORCING SPLICE AND DEVELOPMENT LENGTH SCHEDULE." PROVIDE CORNER BARS AT ALL WALL AND FOOTING INTERSECTIONS, LAP ADJACENT MATS OF WELDED WIRE FABRIC A MINIMUM OF 8" AT SIDES AND ENDS.
- NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BENT UNLESS SPECIFICALLY SO DETAILED OR APPROVED BY THE STRUCTURAL

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

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

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

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

- 22. CAST-IN-PLACE CONCRETE: SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND DIMENSIONS OF DOOR AND WINDOW OPENINGS IN ALL CONCRETE WALLS. SEE MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF MISCELLANEOUS MECHANICAL OPENINGS THROUGH CONCRETE WALLS. SEE ARCHITECTURAL DRAWINGS FOR ALL GROOVES, NOTCHES, CHAMFERS, FEATURE STRIPS, COLOR, TEXTURE, AND OTHER FINISH DETAILS AT ALL EXPOSED CONCRETE SURFACES, BOTH CAST-IN-PLACE AND PRECAST.
- 23. NON-SHRINK GROUT SHALL BE FURNISHED BY AN APPROVED MANUFACTURER AND SHALL BE MIXED AND PLACED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED RECOMMENDATIONS. GROUT STRENGTH SHALL BE AT LEAST EQUAL TO THE MATERIAL ON WHICH IT IS PLACED (3000 PSI MINIMUM).

ANCHORAGE

- 24. EXPANSION BOLTS INTO CONCRETE SHALL BE "STRONG-BOLT 2" WEDGE ANCHORS AS MANUFACTURED BY THE SIMPSON STRONG TIE COMPANY AND INSTALLED IN STRICT CONFORMANCE TO ICC-ES REPORT NUMBER ESR-3031, INCLUDING MINIMUM EMBEDMENT REQUIREMENTS. BOLTS INTO CONCRETE MASONRY OR BRICK MASONRY UNITS SHALL BE INTO FULLY GROUTED CELLS. PERIODIC SPECIAL INSPECTION IS REQUIRED TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, ANCHOR LOCATION, TIGHTENING TORQUE, HOLE DIMENSIONS, ANCHOR EMBEDMENT, AND ADHERENCE TO THE INSTALLATION INSTRUCTIONS.
- 25. EPOXY-GROUTED ITEMS (THREADED RODS OR REINFORCING BAR) SPECIFIED ON THE DRAWINGS SHALL BE INSTALLED USING "AT-XP" AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, INSTALL IN STRICT ACCORDANCE WITH IAMPO REPORT NO. ER-0281, MINIMUM BASE MATERIAL TEMPERATURE IS 14 DEGREES, F. RODS SHALL BE ASTM A-36 UNLESS OTHERWISE NOTED. PERIODIC SPECIAL INSPECTION OF INSTALLATION IS REQUIRED TO VERIFY ANCHOR OR EMBEDED BAR TYPE AND DIMENSIONS, LOCATION, ADHESIVE IDENTIFICATION AND EXPIRATION, HOLE DIMENSIONS, HOLE CLEANING PROCEDURE, ANCHOR EMBEDMENT, AND ADHERENCE TO THE INSTALLATION INSTRUCTIONS. CONTINUOUS SPECIAL INSPECTION IS REQUIRED FOR HORIZONTAL AND OVERHEAD INSTALLATIONS.
- 26, CONCRETE SCREW ANCHORS INTO CONCRETE AND CONCRETE MASONRY UNITS SHALL BE "TITEN HD" HEAVY DUTY SCREW ANCHOR AS MANUFACTURED BY THE SIMPSON STRONG-TIE COMPANY, INSTALLED IN STRICT ACCORDANCE WITH ICC-ES REPORT NO. ESR-2713 (CONCRETE), NO. ESR-1056 (CMU), INCLUDING MINIMUM EMBEDMENT REQUIREMENTS, SCREW ANCHORS INTO CONCRETE MASONRY UNITS SHALL BE INTO FULLY GROUTED CELLS, SPECIAL INSPECTION IS REQUIRED.

27. FRAMING LUMBER SHALL BE S-DRY, KD, OR MC-19, AND GRADED AND MARKED IN CONFORMANCE WITH WCLIB STANDARD "GRADING RULES FOR WEST COAST LUMBER NO. 17", OR WWPA STANDARD, "WESTERN LUMBER GRADING RULES 2011". FURNISH TO THE FOLLOWING MINIMUM STANDARDS:

LUMBLIN	NO. 11, OR MAIN STANDARD, MESTERN EUTIDER ORAL	THE ROLLS 2011. TURNISH TO THE POLLONING MINIMON STANDA
JOISTS AND BEA	(2X & 3X MEMBERS) AMS	HEM-FIR NO. 2 MINIMUM BASE VALUE, Fb = 850 PSI
	(4X MEMBERS)	DOUGLAS FIR-LARCH NO. I MINIMUM BASE VALUE, Fb = 1000 PSI
BEAMS	(INCL. 6X AND LARGER)	DOUGLAS FIR-LARCH NO. I MINIMUM BASE VALUE, Fb = 1350 PSI
POSTS	(4X MEMBERS)	DOUGLAS FIR-LARCH NO. 2 MINIMUM BASE VALUE, Fc = 1350 PSI
	(6X AND LARGER)	DOUGLAS FIR-LARCH NO. I MINIMUM BASE VALUE, Fc = 1000 PSI
STUDS, PI	LATES & MISC. FRAMING:	DOUGLAS FIR-LARCH NO. 2 OR HEM-FIR NO. 2

- 28. GLUED LAMINATED MEMBERS SHALL BE FABRICATED IN CONFORMANCE WITH ASTM AND ANSI/AITC STANDARDS. EACH MEMBER SHALL BEAR AN AITC OR APA-EWS IDENTIFICATION MARK AND SHALL BE ACCOMPANIED BY AN AITC OR APA-EMS CERTIFICATE OF CONFORMANCE. ALL SIMPLE SPAN BEAMS SHALL BE DOUGLAS FIR COMBINATION 24F-V4, Fb = 2,400 PSI, Fv =265 PSI. ALL CANTILEVERED BEAMS SHALL BE DOUGLAS FIR COMBINATION 24F-V8, Fb = 2400 PSI, Fv = 265 PSI. CAMBER ALL SIMPLE SPAN GLULAM BEAMS, WITH SPANS OVER 30', TO 3,500' RADIUS, UNLESS SHOWN OTHERWISE ON THE PLANS.
- 29. MANUFACTURED LUMBER, PSL, LYL, AND LSL SHOWN ON PLAN ARE BASED PRODUCTS MANUFACTURED BY THE WEYERHAEUSER CORPORATION IN ACCORDANCE WITH ICC-ES REPORT ESR-1387. MEMBERS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:

PSL (2.0E) Fb = 2900 PSI, E = 2000 KSI, Fv = 290 PSI Fb = 2600 PSI, E = 2000 KSI, Fv = 285 PSI LVL (2.*0*E)

Fb = 2325 PSI, E = 1550 KSI, Fv = 310 PSI

ALTERNATE MANUFACTURED LUMBER MANUFACTURERS MAY BE USED SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER. ALTERNATE MANUFACTURER'S PRODUCTS SHALL BE COMPATIBLE WITH THE JOIST HANGERS AND OTHER HARDWARE SPECIFIED ON PLANS, OR ALTERNATE HANGERS AND HARDWARE SHALL SUBMITTED FOR REVIEW AND APPROVAL. SUBSTITUTED ITEMS SHALL HAVE ICC-ES REPORT APPROVAL FOR EQUAL OR GREATER LOAD

MANUFACTURED LUMBER PRODUCTS SHALL BE INSTALLED WITH A MOISTURE CONTENT OF 12% OR LESS. THE CONTRACTOR SHALL MAKE PROVISIONS DURING CONSTRUCTION TO PREVENT THE MOISTURE CONTENT OF INSTALLED BEAMS FROM EXCEEDING 12%. EXCESSIVE DEFLECTIONS MAY OCCUR IF MOISTURE CONTENT EXCEEDS THIS VALUE.

30. PREFABRICATED CONNECTOR PLATE WOOD ROOF TRUSSES SHALL BE DESIGNED BY THE MANUFACTURER IN ACCORDANCE WITH THE "NATIONAL DESIGN STANDARD FOR METAL PLATE-CONNECTED WOOD TRUSS CONSTRUCTION, ANSI/TPI I" BY THE TRUSS PLATE INSTITUTE FOR THE SPANS AND CONDITIONS SHOWN ON THE PLANS. LOADING SHALL BE AS FOLLOWS:

TOP CHORD LIVE LOAD IO PSF TOP CHORD DEAD LOAD IO PSF BOTTOM CHORD DEAD LOAD 45 PSF TOTAL LOAD WIND UPLIFT (TOP CHORD) BOTTOM CHORD LIVE LOAD (BOTTOM CHORD LIVE LOAD DOES NOT ACT CONCURRENTLY WITH THE ROOF LIVE LOAD)

WOOD TRUSSES SHALL UTILIZE APPROVED CONNECTOR PLATES (GANGNAIL OR EQUAL). SUBMIT SHOP DRAWINGS AND DESIGN CALCULATIONS TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION. SUBMITTED DOCUMENTS SHALL BE SIGNED AND STAMPED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF WASHINGTON. PROVIDE FOR SHAPES, BEARING POINTS, INTERSECTIONS, HIPS, VALLEYS, ETC., SHOWN ON THE DRAWINGS. EXACT COMPOSITION OF SPECIAL HIP, VALLEY, AND INTERSECTION AREAS (USE OF GIRDER TRUSSES, JACK TRUSSES, STEP-DOWN TRUSSES, ETC.) SHALL BE DETERMINED BY THE MANUFACTURER UNLESS SPECIFICALLY INDICATED ON THE PLANS. PROVIDE ALL TRUSS TO TRUSS AND TRUSS TO GIRDER TRUSS CONNECTION DETAILS AND REQUIRED CONNECTION MATERIALS. PROVIDE FOR ALL TEMPORARY AND PERMANENT TRUSS BRACING AND BRIDGING.

31. PLYWOOD SHEATHING SHALL BE GRADE C-D, EXTERIOR GLUE OR STRUCTURAL II, EXTERIOR GLUE IN CONFORMANCE WITH DOC PS I OR PS 2. ORIENTED STRAND BOARD OF EQUIVALENT THICKNESS, EXPOSURE RATING AND PANEL INDEX MAY BE USED IN LIEU OF PLYWOOD.

PROVIDE APPROVED PLYWOOD EDGE CLIPS CENTERED BETWEEN JOISTS/TRUSSES AT UNBLOCKED ROOF SHEATHING EDGES. ALL FLOOR SHEATHING EDGES SHALL HAVE APPROVED T&G JOINTS OR SHALL BE SUPPORTED WITH SOLID BLOCKING. ALLOW 1/8" SPACING AT ALL PANEL EDGES AND ENDS OF FLOOR AND ROOF

ROOF SHEATHING SHALL BE 1/2" (NOMINAL) WITH SPAN RATING 32/16.

FLOOR SHEATHING SHALL BE 3/4" (NOMINAL) WITH SPAN RATING 48/24.

WALL SHEATHING SHALL BE 1/2" (NOMINAL) WITH SPAN RATING 24/O.

REFER TO WOOD FRAMING NOTES BELOW FOR TYPICAL NAILING REQUIREMENTS.

- 32. ALL WOOD IN DIRECT CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE-TREATED WITH AN APPROVED PRESERVATIVE OR (2) LAYERS OF ASPHALT IMPREGNATED BUILDING PAPER SHALL BE PROVIDED BETWEEN UNTREATED WOOD AND CONCRETE OR MASONRY.
- 33. PRESERVATIVE TREATED WOOD SHALL BE TREATED PER AWPA STANDARD UI TO THE USE CATEGORY EQUAL TO OR HIGHER THAN THE INTENDED APPLICATION. TREATED WOOD FOR ABOVE GROUND USE SHALL BE TREATED TO AWPA UC3B. WOOD IN CONTINUOUS CONTACT WITH FRESH WATER OR SOIL SHALL BE TREATED TO AMPA UC4A, WOOD FOR USE IN PERMANENT FOUNDATIONS SHALL BE TREATED TO AMPA UC4B.
- 34. WOOD TREATED FOR FIRE RESISTANCE SHALL MEET THE REQUIREMENTS OF ASTM E 84 OR UL 123 AND HAVE A LISTED FLAME SPREAD INDEX OF 25 OR LESS. FIRE RETARDANT TREATED LUMBER AND WOOD STRUCTURAL PANELS SHALL BE LABELED IN ACCORDANCE WITH IBC 2303.2.4. WOOD TREATED FOR FIRE PROTECTION FOR USE IN INTERIOR ABOVE GROUND CONSTRUCTION AND CONTINUOUSLY PROTECTED FROM WEATHER AND OTHER SOURCES OF MOISTURE SHALL BE TREATED TO AMPA UCFA. WOOD TREATED FOR FIRE PROTECTION FOR USE IN EXTERIOR ABOVE GROUND CONSTRUCTION AND SUBJECT TO WETTING OR OTHER SOURCES OF MOISTURE SHALL BE TREATED TO AMPA UCFB.
- 35. FASTENERS AND TIMBER CONNECTORS USED WITH TREATED WOOD SHALL HAVE CORROSION RESISTANCE AS INDICATED IN THE FOLLOWING TABLE, UNLESS OTHERWISE NOTED.

<u>WOOD TREATMENT</u> HAS NO AMMONIA CARRIER INTERIOR DRY 690 GALVANIZED CONTAINS AMMONIA CARRIER INTERIOR DRY 6185 OR A185 HOT DIPPED OR CONTINUOUS HOT-GALVANIZED PFR ASTM A653 CONTAINS AMMONIA CARRIER INTERIOR WET TYPE 304 OR 316 STAINLESS CONTAINS AMMONIA CARRIER **EXTERIOR** TYPE 304 OR 316 STAINLESS

INTERIOR DRY CONDITIONS SHALL HAVE WOOD MOISTURE CONTENT LESS THAN 19%. WOOD MOISTURE CONTENT IN OTHER CONDITIONS (INTERIOR WET, EXTERIOR WET, AND EXTERIOR DRY) IS EXPECTED TO EXCEED 19%. CONNECTORS AND THEIR FASTENERS SHALL BE THE SAME MATERIAL. COMPLY WITH THE TREATMENT MANUFACTURERS RECOMMENDATIONS FOR PROTECTION OF METAL.

36. TIMBER CONNECTORS CALLED OUT BY LETTERS AND NUMBERS SHALL BE "STRONG-TIE" BY SIMPSON COMPANY, AS SPECIFIED IN THEIR CATALOG NUMBER C-C-2019. EQUIVALENT DEVICES BY OTHER MANUFACTURERS MAY BE SUBSTITUTED, PROVIDED THEY HAVE ICC-ES APPROVAL FOR EQUAL OR GREATER LOAD CAPACITIES. PROVIDE NUMBER AND SIZE OF FASTENERS AS SPECIFIED BY MANUFACTURER FOR MAXIMUM LOAD CARRYING CAPACITY. CONNECTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

ALL 2X JOISTS SHALL BE CONNECTED TO FLUSH BEAMS WITH "LUS" SERIES JOIST HANGERS. ALL TJI JOISTS SHALL BE CONNECTED TO FLUSH BEAMS WITH "ITS" SERIES JOIST HANGERS, ALL DOUBLE-JOIST BEAMS SHALL BE CONNECTED TO FLUSH BEAMS WITH "MIT" SERIES JOIST HANGERS,

TYPE 304 OR 316 STAINLESS

WHERE CONNECTOR STRAPS CONNECT TWO MEMBERS, PLACE ONE-HALF OF THE NAILS OR BOLTS IN EACH MEMBER.

ALL SHIMS SHALL BE SEASONED AND DRIED AND THE SAME GRADE (MINIMUM)AS MEMBERS CONNECTED.

37. WOOD FASTENERS

A. NAIL SIZES SPECIFIED ON DRAWINGS ARE BASED ON THE FOLLOWING SPECIFICATIONS:

DIAMETER 2-1/2" 0.131" 8d 10d 0.148" 3-1/2" 16d BOX

IF CONTRACTOR PROPOSES THE USE OF ALTERNATE NAILS, THEY SHALL SUBMIT NAIL SPECIFICATIONS TO THE STRUCTURAL ENGINEER (PRIOR TO CONSTRUCTION)

NAILS - PLYWOOD (APA RATED SHEATHING) FASTENERS TO FRAMING SHALL BE DRIVEN FLUSH TO FACE OF SHEATHING WITH NO COUNTERSINKING PERMITTED. TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF 30 DEGREES WITH THE MEMBER AND STARTED 1/3 THE LENGTH OF THE NAIL FROM THE MEMBER END.

B. ALL BOLTS IN WOOD MEMBERS SHALL CONFORM TO ASTM A301. PROVIDE WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG BOLTS BEARING ON WOOD. INSTALLATION OF LAG BOLTS SHALL CONFORM TO THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION WITH A LEAD BORE HOLE OF 60 TO 70 PERCENT OF THE SHANK DIAMETER, LEAD HOLES ARE NOT REQUIRED FOR 3/8" AND SMALLER LAG SCREWS.

38. NOTCHES AND HOLES IN WOOD FRAMING:

FOR REVIEW AND APPROVAL

- A. NOTCHES ON THE ENDS OF SOLID SAWN JOISTS AND RAFTERS SHALL NOT EXCEED ONE-FOURTH THE JOIST DEPTH, NOTCHES IN THE TOP OR BOTTOM OF SOLID SAWN JOISTS SHALL NOT EXCEED ONE-SIXTH THE DEPTH AND SHALL NOT BE LOCATED IN THE MIDDLE THIRD OF THE SPAN, HOLES BORED IN SOLID SAWN JOISTS AND RAFTERS SHALL NOT BE WITHIN 2 INCHES OF THE TOP OR BOTTOM OF THE JOIST, AND THE DIAMETER OF ANY SUCH HOLE SHALL NOT EXCEED ONE-THIRD THE DEPTH OF THE JOIST.
- B. IN EXTERIOR WALLS AND BEARING PARTITIONS, ANY WOOD STUD IS PERMITTED TO BE CUT OR NOTCHED TO A DEPTH NOT EXCEEDING 25 PERCENT OF ITS WIDTH. A HOLE NOT GREATER IN DIAMETER THAN 40 PERCENT OF THE STUD WIDTH IS PERMITTED TO BE BORED IN ANY WOOD STUD. IN NO CASE SHALL THE EDGE OF THE BORED HOLE BE NEARER THAN 5/8 INCH TO THE EDGE OF THE STUD. BORED HOLES SHALL NOT BE LOCATED AT THE SAME SECTION OF STUD AS A CUT OR
- C. NOTCHES AND HOLES IN MANUFACTURED LUMBER AND PREFABRICATED PLYWOOD WEB JOISTS SHALL BE PER THE MANUFACTURERS RECOMMENDATIONS UNLESS

39. WOOD FRAMING NOTES--THE FOLLOWING APPLY UNLESS OTHERWISE SHOWN ON THE PLANS:

- A. ALL WOOD FRAMING DETAILS NOT SHOWN OTHERWISE SHALL BE CONSTRUCTED TO THE MINIMUM STANDARDS OF THE INTERNATIONAL BUILDING CODE, THE AITC "TIMBER CONSTRUCTION MANUAL" AND THE AWC "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION". MINIMUM NAILING, UNLESS OTHERWISE NOTED, SHALL CONFORM TO IBC TABLE 2304.IO.I. COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS.
- B. WALL FRAMING: REFER ARCHITECTURAL DRAWINGS FOR THE SIZE OF ALL WALLS. ALL STUDS SHALL BE SPACED AT 16" O.C. UNO. TWO STUDS MINIMUM SHALL BE PROVIDED AT THE END OF ALL WALLS AND AT EACH SIDE OF ALL OPENINGS, AND AT BEAM OR HEADER BEARING LOCATIONS. TWO 2x8 HEADERS SHALL BE PROVIDED OVER ALL OPENINGS NOT OTHERWISE NOTED. SOLID BLOCKING FOR WOOD COLUMNS SHALL BE PROVIDED THROUGH FLOORS TO SUPPORTS BELOW. PROVIDE CONTINUOUS SOLID BLOCKING AT MID-HEIGHT OF ALL STUD WALLS OVER IO'-O" IN HEIGHT.

ALL WALLS SHALL HAVE A SINGLE BOTTOM PLATE AND A DOUBLE TOP PLATE. END NAIL TOP PLATE TO EACH STUD WITH TWO 16d NAILS, AND TOENAIL OR END NAIL EACH STUD TO BOTTOM PLATE WITH TWO 16d NAILS. FACE NAIL DOUBLE TOP PLATE WITH 16d @ 12" O.C. AND LAP MINIMUM 4'-O" AT JOINTS AND PROVIDE EIGHT I6d NAILS @ 4" O.C. EACH SIDE JOINT.

ALL STUD WALLS SHALL HAVE THEIR LOWER WOOD PLATES ATTACHED TO WOOD FRAMING BELOW WITH TWO ROWS OF 16d NAILS @ 12" ON-CENTER, OR ATTACHED TO CONCRETE BELOW WITH 5/6" DIAMETER ANCHOR BOLTS @ 4'-O" ON-CENTER EMBEDDED 7" MINIMUM, UNLESS INDICATED OTHERWISE, INDIVIDUAL MEMBERS OF BUILT-UP POSTS SHALL BE NAILED TO EACH OTHER WITH TWO ROWS OF 16d @12" ON-CENTER. UNLESS OTHERWISE NOTED, GYPSUM WALLBOARD SHALL BE FASTENED TO THE INTERIOR SURFACE OF ALL STUDS AND PLATES WITH NO. 6 X I-I/4" TYPE 5 OR W SCREWS @ 8" ON-CENTER. UNLESS INDICATED OTHERWISE, I/2" (NOMINAL)APA RATED SHEATHING (SPAN RATING 24/0) SHALL BE NAILED TO ALL EXTERIOR SURFACES WITH 8d NAILS @ 6" ON-CENTER AT PANEL EDGES AND TOP AND BOTTOM PLATES (BLOCK UN-SUPPORTED EDGES) AND TO ALL INTERMEDIATE STUDS AND BLOCKING WITH & NAILS @ 12" ON-CENTER ALLOW I/8" SPACING AT ALL PANEL EDGES AND PANEL ENDS.

C. FLOOR AND ROOF FRAMING: PROVIDE DOUBLE JOISTS UNDER ALL PARALLEL PARTITIONS THAT EXTEND OVER MORE THAN HALF THE JOIST LENGTH AND AROUND ALL OPENINGS IN FLOORS OR ROOFS UNLESS OTHERWISE NOTED. PROVIDE SOLID BLOCKING AT ALL BEARING POINTS. TOE-NAIL JOISTS TO SUPPORTS WITH TWO 16d NAILS. ATTACH TIMBER JOISTS TO FLUSH HEADERS OR BEAMS WITH SIMPSON METAL JOIST HANGERS IN ACCORDANCE WITH NOTES ABOVE. NAIL ALL MULTI JOIST BEAMS TOGETHER WITH TWO ROWS 16d @ 12" ON-CENTER.

UNLESS OTHERWISE NOTED ON THE PLANS, PLYWOOD ROOF AND FLOOR SHEATHING SHALL BE LAID UP WITH GRAIN PERPENDICULAR TO SUPPORTS AND NAILED AT 6" ON-CENTER WITH 8d NAILS TO FRAMED PANEL EDGES, STRUTS AND OVER STUD WALLS AS SHOWN ON PLANS AND @ 12" ON-CENTER TO INTERMEDIATE SUPPORTS. PROVIDE APPROVED PLYWOOD EDGE CLIPS CENTERED BETWEEN JOISTS/TRUSSES AT UNBLOCKED ROOF SHEATHING EDGES. ALL FLOOR SHEATHING EDGES SHALL HAVE APPROVED T&G JOINTS OR SHALL BE SUPPORTED WITH SOLID BLOCKING. ALLOW 1/8" SPACING AT ALL PANEL EDGES AND ENDS OF FLOOR AND ROOF SHEATHING. TOENAIL BLOCKING TO SUPPORTS WITH 16d @ 12" ON-CENTER UNLESS OTHERWISE NOTED.



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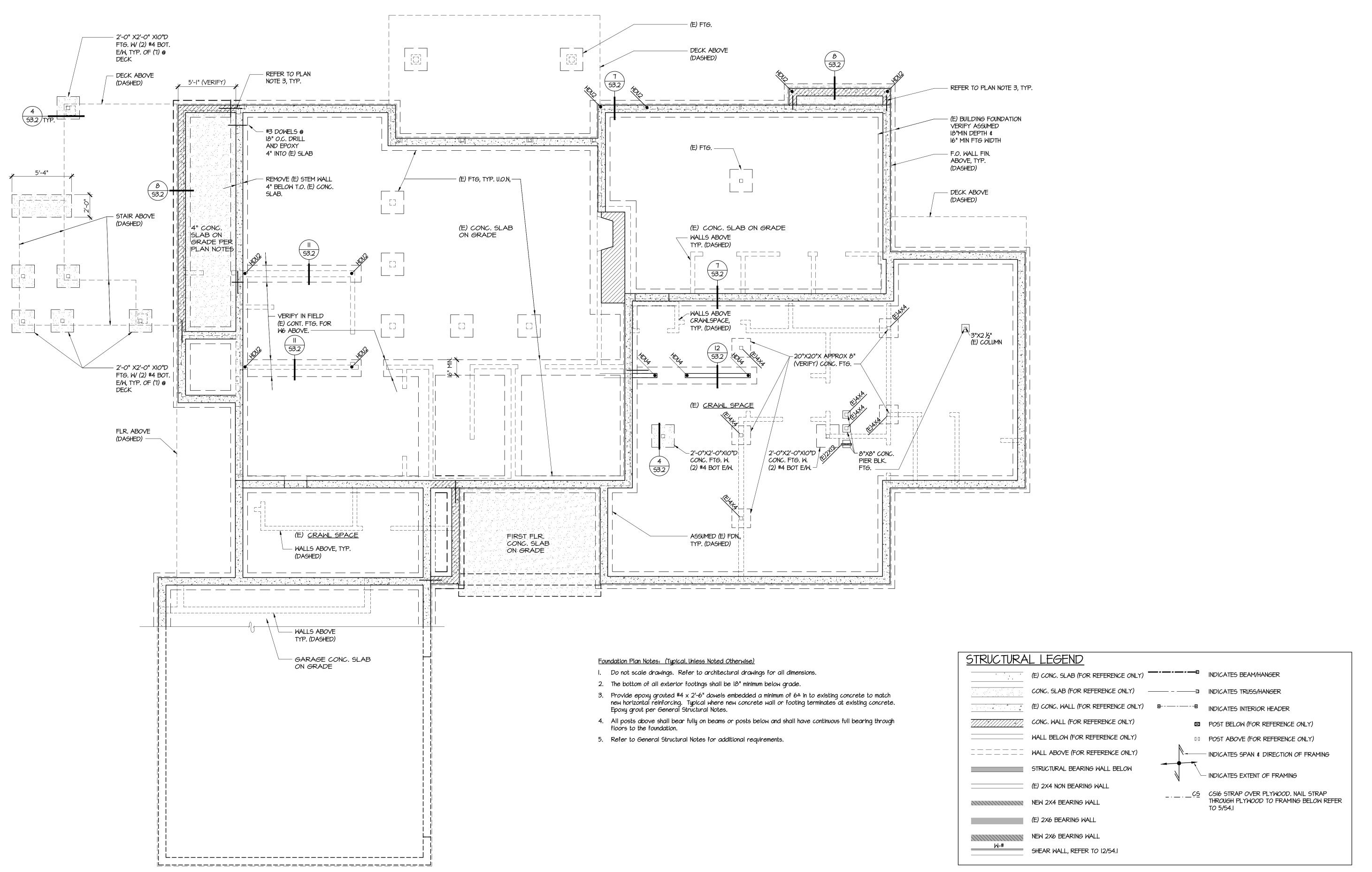
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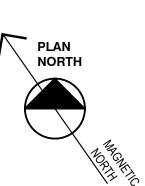
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STRUCTURAL NOTES

Date:_ 06/30/2020

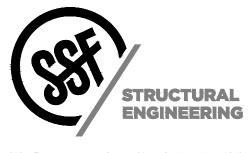






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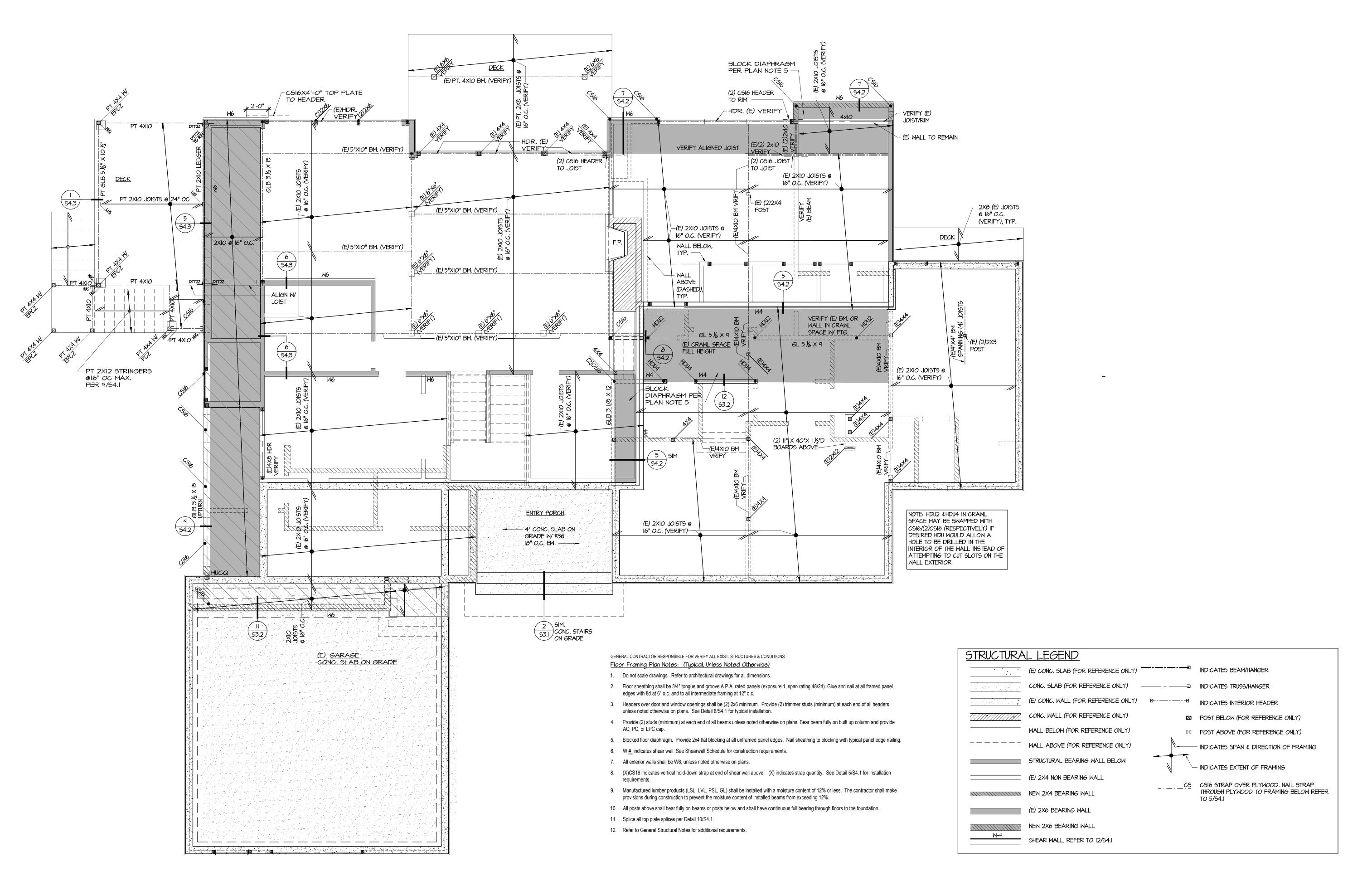
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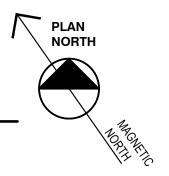
Sheet Title: BSMT. FOUNDATION PLAN

Scale: 1/4" = 1'-0" 20-05 Date: 06/30/2020

Sheet Number:

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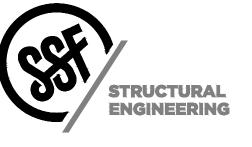






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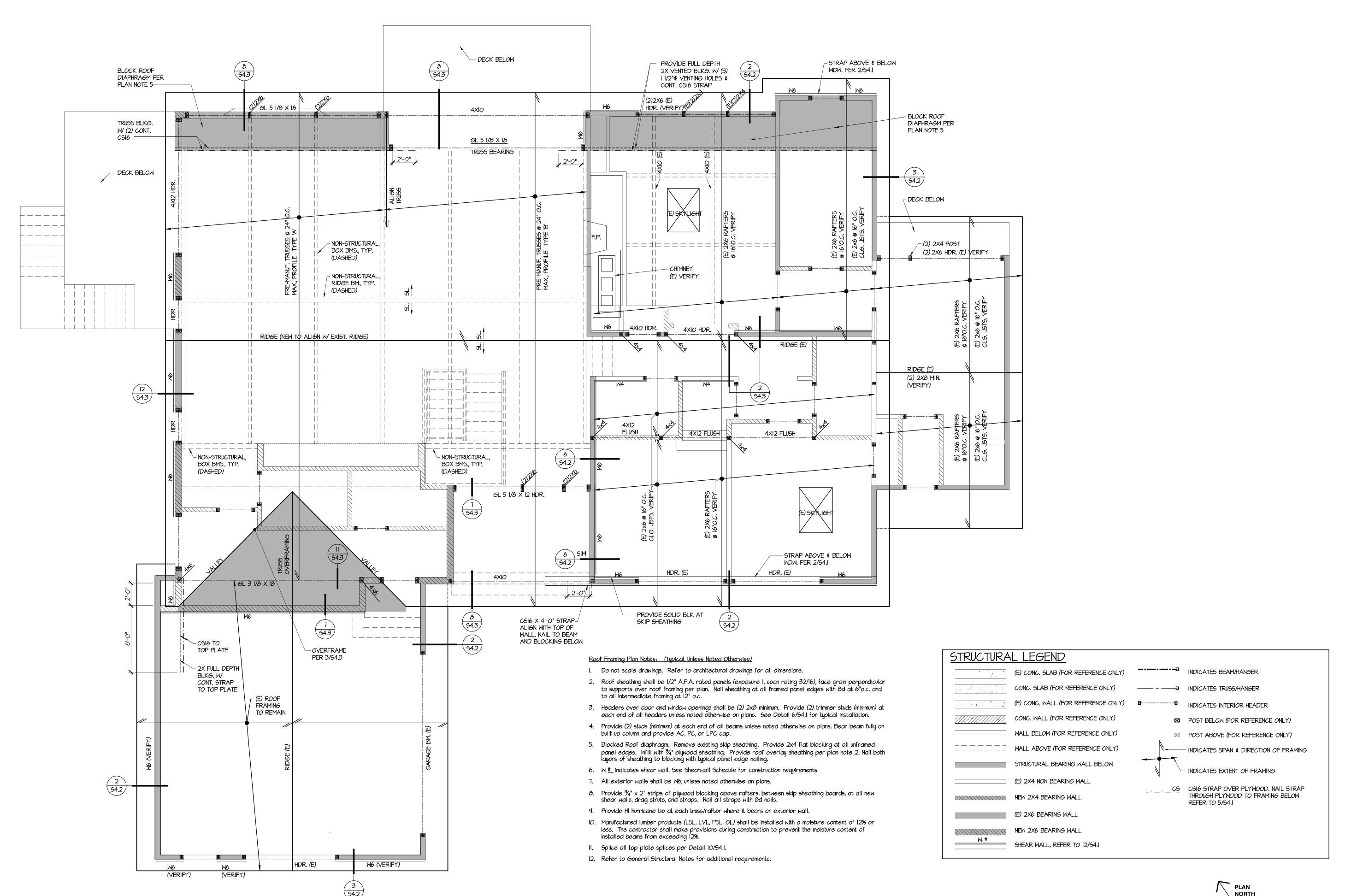
AWLER RESIDENCE
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Sheet Title:
FIRST FLOOR FRAMING PLAN/
FDN. PLAN

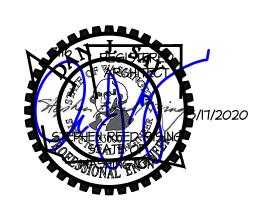
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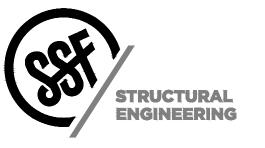
Sheet Number:

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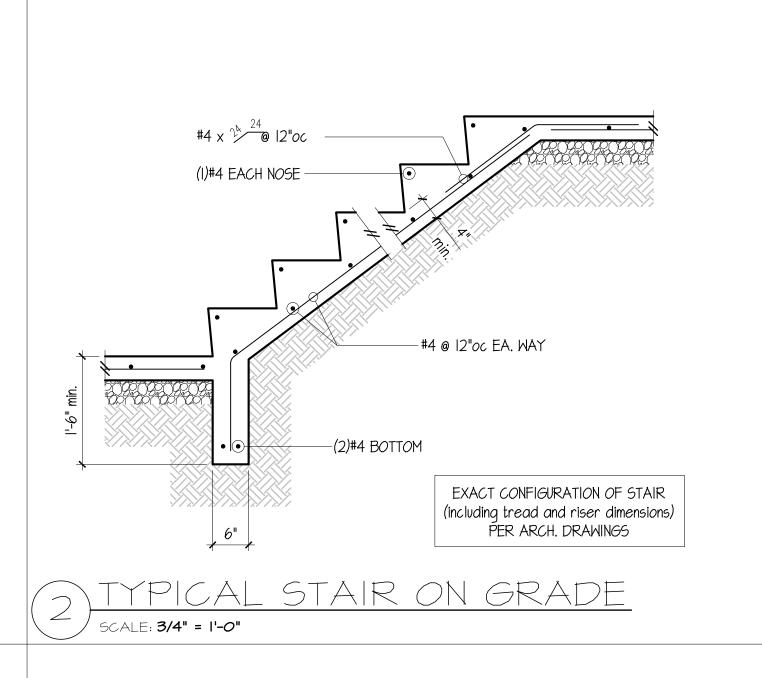
Sheet Title: ROOF FRAMING PLAN

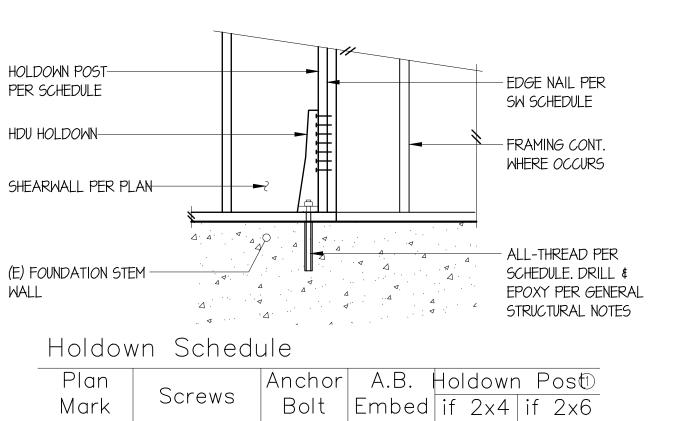
ale: 1/4" = 1'-0"

Date: 06/30/2020

Sheet Number:

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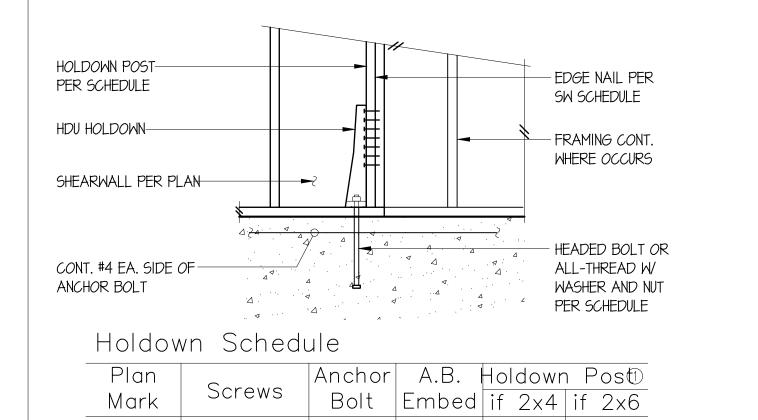


(2) 2x4 (2) 2x6 HDU2-SDS2.5 (6)SDS ?"x2?" ?"φ HDU4-SDS2.5 ?"Φ 10" 4x4

1) MINIMUM SIZE OF POST AT END OF WALL UNLESS OTHERWISE NOTED ON FRAMING PLANS.

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

EPOXIED HDU HOLDOWN



?"φ

?"Φ

(2) 2x4

4x4

(2) 2x6

4x6

MINIMUM SIZE OF POST AT END OF WALL UNLESS OTHERWISE NOTED ON FRAMING PLANS.

HDU2-SDS2.5 (6)SDS ?"x2?"

HDU4-SDS2.5 (10)SDS ?"x2?"

YPICAL HDU HOLDOWN SCALE: **3/4" = 1'-0"**

-PIPE SLEEVES AS REQD 2'-0" min. EXCAVATION NOT-ALLOWED BELOW THIS LINE

5 PIPE & TRENCH LOCATIONS

3'-0" min.

NORMAL FOOTING

REINFORCING

TYPICAL STEPPED FOOTING

- CONCRETE WALL

in Wall

-ADD (I)#5 DIAGONAL

[/] SCALE: **3/4" = 1'-0"**

NORMAL FOOTING!

REINFORCING

ADD BARS TO-

MATCH NORMAL REINFORCING

LINE OF EXCAVATION

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

Reinforcing Splice and Development Length Schedule

For f'c = 3000 psi, Grade 60 Reinforcing (Minimum Straight Development Lengt**&** (d)

Bar Size	Top Bars	Other Bars
#3	21"	16"
#4	28"	22"
#5	36"	27"
#6	43"	33"
#7	62"	48"
#8	71"	55"
#9	80"	62"
#10	90"	70"
#11	100"	77"

Minimum Lap Splice Length⋞(s)

Bar Size	Top Bars	Other Bars
#3	28"	21"
#4	37"	28"
#5	46"	36"
#6	56"	43"
#7	81"	62"
#8	93"	71"
#q	104"	80"
#10	118"	90"
#	131"	100"
# 0	118"	90"

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

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

Minimum Embedment Lengths (dh)

For	Standard End Hooks
Bar Size	Length
#3	6"
#4	8"
# 5	IO"
#6	l2"
#7	13"
#8	15"
#q	ΙΤ"
#10	19"
#	22"
	#3 #4 #5 #6 #7 #8 #9 #10

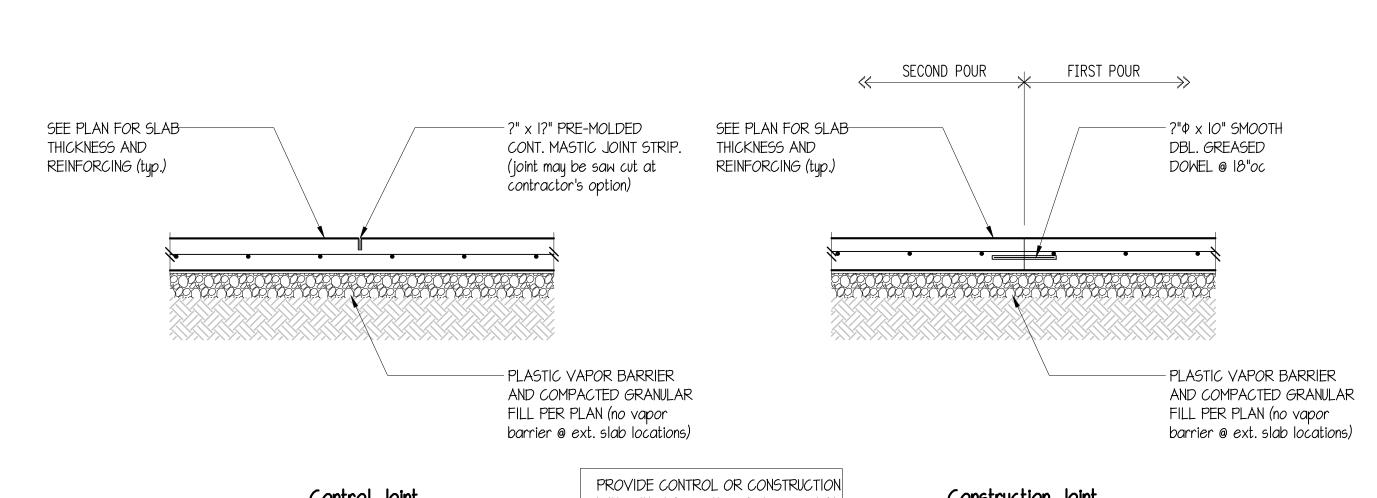
I. SIDE COVER MUST BE EQUAL TO OR GREATER THAN 2?"

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

2. END COVER FOR 90° HOOKS MUST BE EQUAL TO OR GREATER THAN 2"

CORNER BARS TO - CORNER BARS TO CORNER BARS TO-MATCH CROSS WALL CORNER BARS TO MATCH CROSS WALL MATCH EXTERIOR MATCH HORIZ. REINF. HORIZ. REINF. HORIZ. REINF. HORIZ. REINF. (alt. hooks) -ADDITIONAL--TYP. CORNER TYP. CORNER -ADDITIONAL-BARS: 24 VERT. BARS VERT. BARS BARS: 24 - CROSS WALL CROSS WALL Single Curtain Double Curtain

TYPICAL CORNER BARS AT CONCRETE WALLS AND FOOTINGS) SCALE: 3/4" = 1'-0"



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

Control Joint Construction Joint JOINTS IN SLABS ON GRADE TO BREAK UP SLAB INTO RECTANGULAR AREAS OF 250 SQUARE FEET OR LESS. AREA\$ TO BE APPROX. SQUARE AND HAVE NO ACUTE ANGLES. JOINT LOCATIONS TO BE APPROVED BY THE ARCHITECT. REINFORCING SPLICE LENGTH & DEVELOPMENT LENGTH (3000 PSI) TYPICAL SLAB JOINTS

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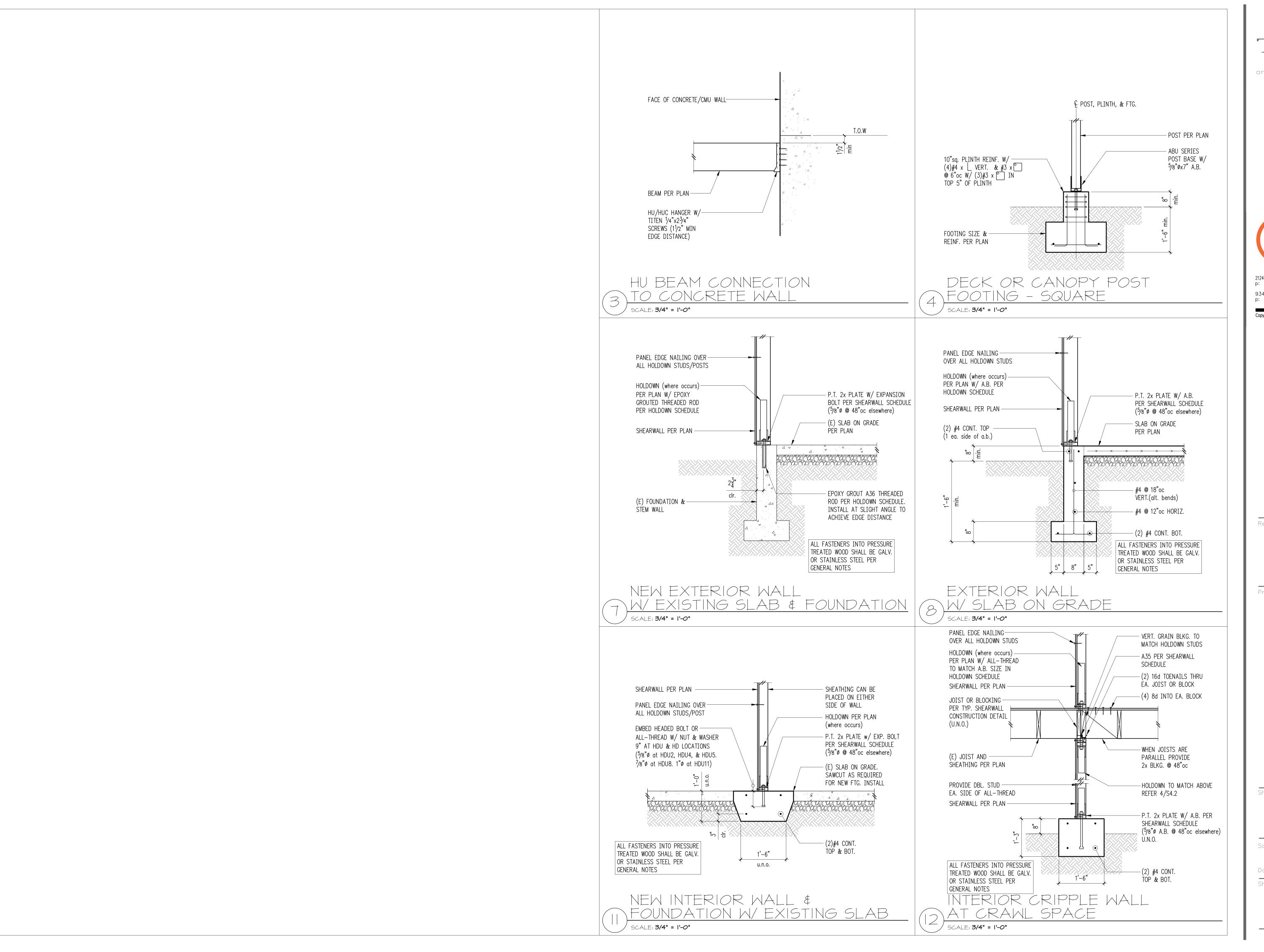
Modifications to

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Sheet Title: CONCRETE STRUCTURAL DETAILS

SCALE VARIES Date: 06/30/2020 Sheet Number:

S3.1





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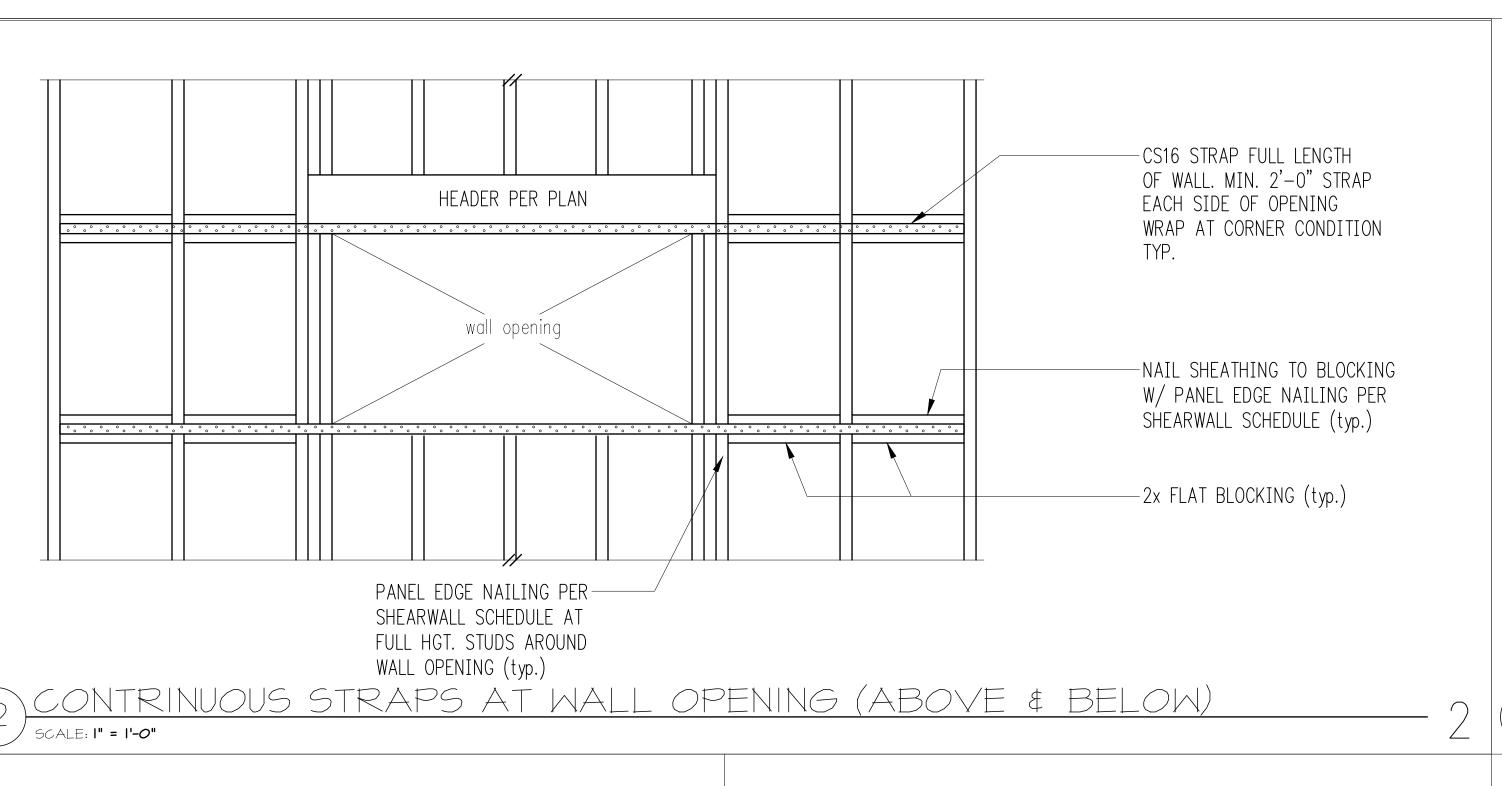
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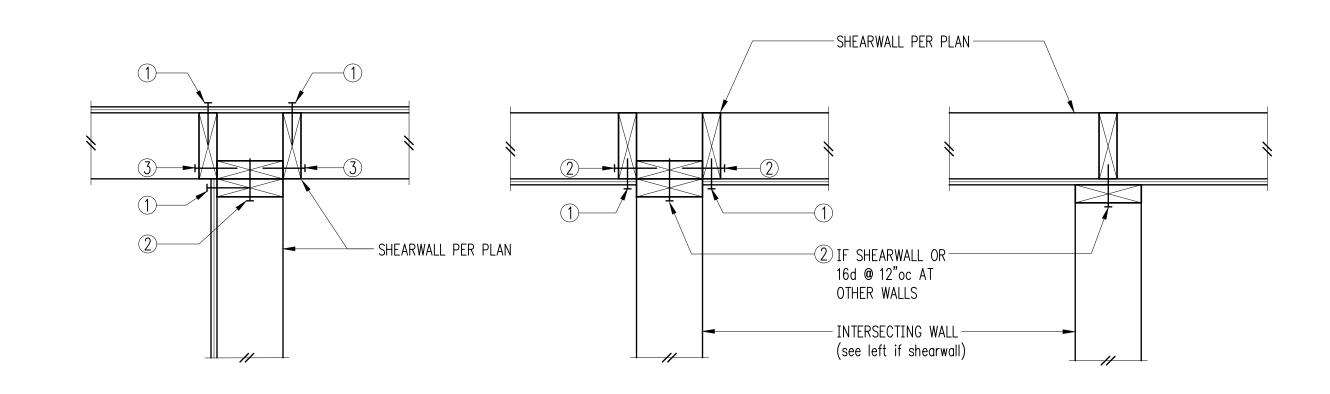
Sheet Title:

CONCRETE STRUCTURAL DETAILS

SCALE VARIES Scale:_ 20-05 Date: 06/30/2020 Sheet Number:

S3.2





1 PLYWOOD PANEL EDGE NAILING PER SHEARWALL SCHEDULE

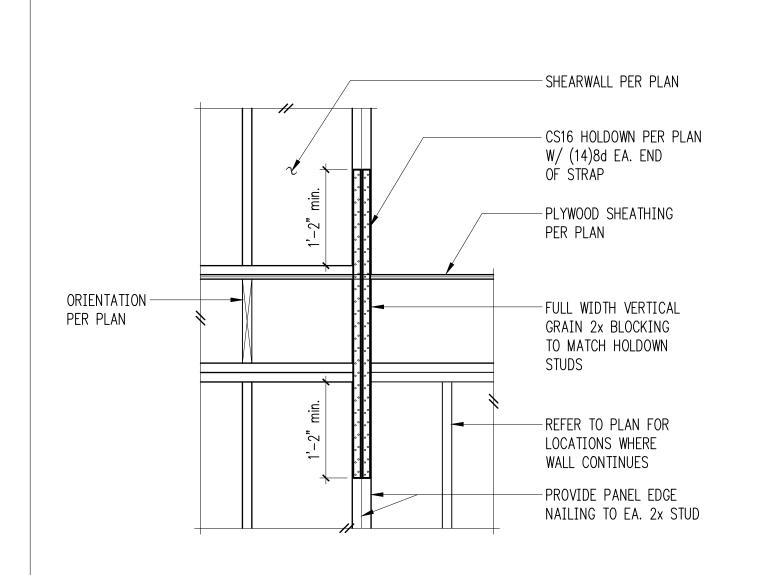
2 BASE PLATE NAILING PER SHEARWALL SCHEDULE

(3) 16d **@** 8"oc

TYPICAL SHEARWALL INTERSECTION

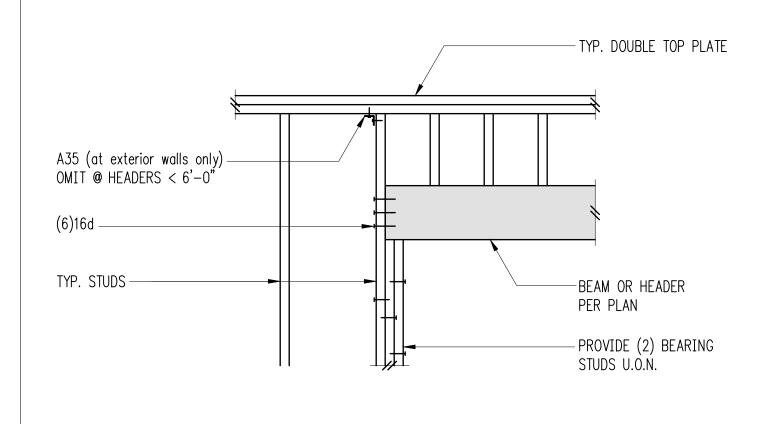
SCALE: **3/4" = 1'-0"**

-PANEL EDGE NAILING OF −(4)8d INTO EA. BLOCK SHEARWALL BELOW

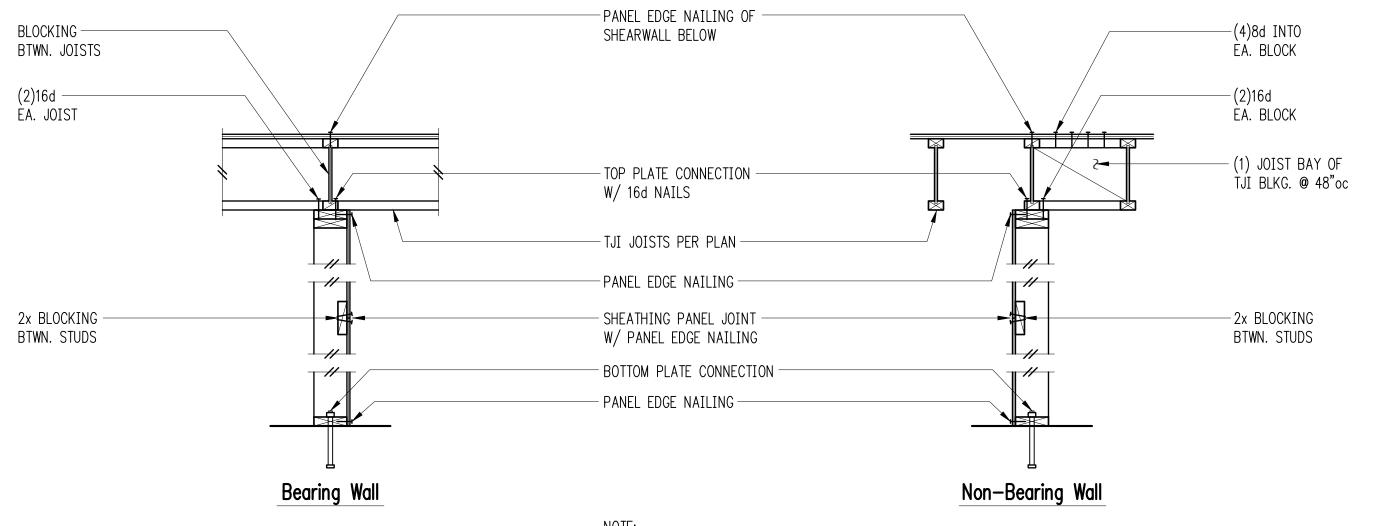


TYPICAL CSI6 HOLDOWN

[/] SCALE: **3/4" = 1'-0"**



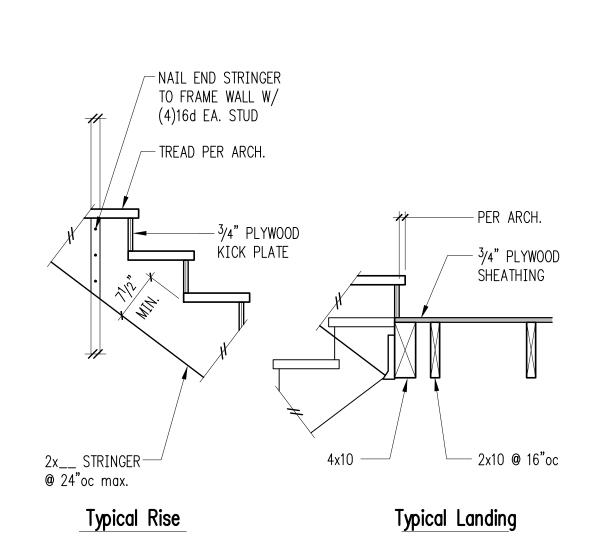




SEE SHEARWALL SCHEDULE FOR ALL NAILING AND

CONNECTIONS, NOT OTHERWISE NOTED

8 TYPICAL SHEARWALL CONSTRUCTION (W/ TJI'S) / SCALE: 3/4" = 1'-0"



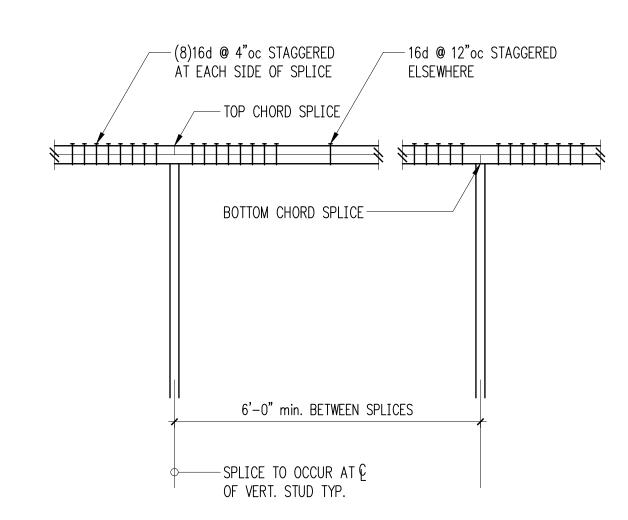
ALL TREAD AND RISER

TYPICAL STAIR

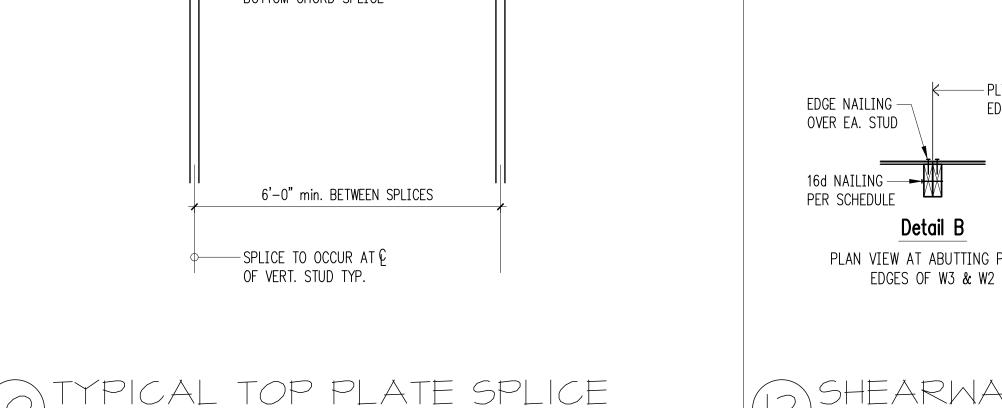
SCALE: **3/4" = 1'-0"**

AND LANDING DETAIL

DIMENSIONS PER ARCH.



/ SCALE: 3/4" = 1'-0"



				
			1	Е
	3/8"	1/2"	2	8
	min	typ.	3	E M E
EDGE NAILING — PLYWOOD OVER EA. STUD	1/2" offset	$-\frac{1}{2}$	4	3
16d NAILING		eq. eq.	5	S
PER SCHEDULE		• .	6	A
Detail B		•	7	7
PLAN VIEW AT ABUTTING PANEL			- 8	L

-16d NAILING

2x NAILER

Detail A

PER SCHEDULE

1/2" MAX. TO

Detail C

Detail D

EDGE OF

WASHER

SAWN OR MFR.

LUMBER. 2x MIN.

SEE NOTES FOR

REQUIREMENTS

16d NAILING -

PER SCHEDULE

ADDITIONAL

Shearwall Sched@@3567

errear warr earreadre									
Mark	Sheathing	Panel Edge	Top Plate	Connection	Base Plate Connection				
Mark	Sneathing	Nailing	if TJI	if Wood	at Woo⊕	at Concrete			
W6	15/32" CDX PLYWOOD	8d @ 6"oc	16d @ 6"oc	A35 @ 24"oc	16d @ 6"oc	⁵ /8"ø A.B. @ 48"oc			
W4	15/32" CDX PLYWOOD	8d @ 4"oc	16d @ 4"oc	A35 @ 16"oc	(2)rows 16d @ 6"oc	⁵ /8"ø A.B. @ 32"oc			
W3 4	15/32" CDX PLYWOOD	8d @ 3"oc	(2)rows 16d @ 4"oc	A35 @ 12"oc	(2)rows 16d @ 6"oc	⁵ /8"ø A.B. @ 24"oc			
W2 ⁴	15/32" CDX PLYWOOD	8d @ 2"oc	(2)rows 16d @ 4"oc	A35 @ 9"oc	(2)rows 16d @ 4"oc 11	⁵ /8"ø A.B. @ 16"oc			

- BLOCK PANEL EDGES WITH 2x MIN. LAID FLAT AND NAIL PANELS TO INTERMEDIATE SUPPORTS WITH 8d @ 12"o.c.
- 8d NAILS SHALL BE 0.131"ø x 2 1/2" (common) 16d NAILS SHALL BE 0.135"ø x 3 1/2" (box)
- EMBED ANCHOR BOLTS AT LEAST 7". EXPANSION BOLTS MAY BE SUBSTITUTED FOR ANCHOR BOLTS WITH 4" EMBEDMENT. TITEN HD SCREW ANCHORS MAY BE SUBSTITUTED FOR ANCHOR BOLTS W/ 4" EMBEDMENT. ALL BOLTS SHALL HAVE 3" x 3" x 1/4" MIN. PLATE WASHERS. PLATE WASHERS SHALL EXTEND TO WITHIN 1/2" OF THE EDGE OF THE BOTTOM PLATE ON THE SIDE WITH SHEATHING. SEE DETAIL C.
- 3x STUDS OR DOUBLE STUDS NAILED TOGETHER W/ BASE PLATE NAILING ARE REQUIRED AT ABUTTING PANEL EDGES OF W3 AND W2. SEE DETAIL B. WHERE 3x STUDS ARE USED FOR W2, STAGGER NAILS AT ADJOINING PANEL EDGES.
- TWO STUDS MINIMUM ARE REQUIRED AT EACH END OF ALL SHEARWALLS AND ALL END STUDS SHALL RECEIVE PANEL EDGE NAILING. SEE PLANS AND HOLDOWN SCHEDULE FOR ALTERNATE REQUIREMENTS.
- ALL EXTERIOR WALLS SHALL BE W6, UNLESS NOTED OTHERWISE.
- 7/16" O.S.B. MAY BE SUBSITUTED FOR 15/32" CDX.
- LTP4's (HORIZIONTAL ORIENTATION) W/ 8d COMMON MAY BE SUBSTITUTED FOR A35's AT CONTRACTORS OPTION.
- (9) A 2x NAILER ATTACHED W/ BASE PLATE NAILING PER DETAIL A MAY BE SUBSTITUTED FOR A35's AT CONTRACTORS OPTION.
- ① AT MULTI-ROW NAILING, MINIMUM OFFSET BETWEEN ROWS AND ROW SPACING 1/2", SEE DETAIL D.
- ① PROVIDE (3) ROWS 16d @ 6"oc AT LVL RIMS.

13 SHEARWALL SCHEDULE - (SHEATHING ONE SIDE) [/] SCALE: **3/4" = 1'-0"**

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Sheet Title:

STRUCTURAL DETAILS

SCALE VARIES 20-05 Date: 06/30/2020

Sheet Number:

S4.1

