

PROJECT LOCATION

PROJECT INFORMATION:

SITE ADDRESS:

3453 74th Ave SE Mercer Island, WA 98040 1300301965

TAX/PARCEL NUMBER:

LEGAL DESCRIPTION: CALKINS C C 1ST TO EAST SEATTLE 16 THRU 20 & E 15 FT OF 21 THRU 25 TGW POR OF VAC STS ADJ

PLAT BLOCK: 7 PLAT LOT: 16 TO 25

SCOPE OF PROJECT:

ZONING: LOT SIZE:

R-8.4 21,618 SF

887.63 SF

5,626.86 SF

2 UNCOVERED

jamesmcneal@jaymarchomes.com

PROJECT CONSISTS OF DEMOLISHING EXISTING HOUSE AND BUILDING A NEW SINGLE-FAMILY RESIDENCE WITH ONE ACCESSORY BUILDING, A NEW DRIVEWAY AND OTHER ASSOCIATED SITE WORK.

FIRST FLOOR

LIVABLE FLOOR AREA 2,572.70 SF GARAGE/MECHANIAL AREA 567.40 SF 1,599.13 SF SECOND FLOOR 4,739.23 SF GROSS FLOOR AREA (ALLOWED AND PROVIDED)

2 COVERED

BASEMENT

TOTAL BUILDING AREA

PROVIDED PARKING: **ENFORCED CODES:**

2015 International Residential Code with statewide and City amendments

2015 International Mechanical Code with statewide and City amendments 2014 Liquefied Petroleum Gas Code (NFPA 58)

2015 National Fuel Gas Code (NFPA 54) for LP gas

2015 International Fuel Gas Code with statewide and City amendments

2015 International Fire Code with statewide and City amendments

2015 Washington State Energy Code

Washington Cities Electrical Code

FIRE REQUIREMENTS:

Sprinkler System: An NFPA 13R fire sprinkler shall be provided in accordance with IRC P2904. The system shall be designed and the plans stamped by a person holding a Washington State Certificate of Competency. Contractor shall submit design to the Fire Department for approval. The system shall be installed by a state licensed sprinkler contractor.

Monitored Houshold Fire Alarm per NFPA 72 and Monitored Sprinkler Water Flow Alarm are required.

PROJECT CONTACTS:

STRUCTURAL ENGINEER: PROJECT DESIGNER: GARRET CORD WERNER, LLC. SHANNON & INNHSUAN FOO CT ENGINEERING INC 3132 WESTERN AVENUE 3453 74TH AVE SE 180 NICKERSON STREET SUITE 302 SEATTLE, WA 98121 MERCER ISLAND, WA 98040 SEATTLE, WASHINGTON 98109 305.613.5505 800.478.1956 206.285.4512 CONTACT: SHANNON FOO CONTACT: ROB THOMPSON CONTACT: AMIR PARNIANPOUR amir@garretcordwerner.com rthompson@ctengineering.com ssulliv@gmail.com **CIVIL ENGINEER: CONTRACTOR: GEO TECH ENGINEER:** CORE DESIGN, INC. PANGEO, INC. JAYMARC HOMES 12100 NE 195TH STREET, SUITE 300 3213 EASTLAKE AVE E, STE B, 7525 SE 24TH ST. STE 487 BOTHELL, WA 98011 SEATTLE, WA 98102 MERCER ISLAND, WA 98040 425.885.7877 206.262.0370 425.226.9100 Ext 142 CONTACT: JOSHUA P.BEARD CONTACT: WILLIAM CHAO CONTACT: JAMES MCNEAL

wchao@pangeoinc.com

SHEET LIST:

jpb@coredesigninc.com

| 01-GENERAL | | A202 | ELEVATIONS |
|--------------------------|-----------------------------------|------|-------------------------------|
| | | | |
| G000 | COVER SHEET | A301 | BUILDING SECTIONS |
| G001 | ABBREVIATIONS | A302 | BUILDING SECTIONS |
| G002 | GENERAL PROJECT NOTES AND | A303 | BUILDING SECTIONS |
| | REQUIREMENTS | A304 | WALL SECTIONS |
| G003 | ENERGY CODE COMPLIANCE | A501 | TYPICAL ASSEMBLIES - INTERIOF |
| | WORKSHEET | A502 | TYPICAL ASSEMBLIES - EXTERIO |
| G004 | SITE SURVEY | A503 | TYPICAL ASSEMBLIES - FLOOR |
| G005 | TREE RETENTION PLAN AND DEMO PLAN | A504 | TYPICAL ASSEMBLIES - ROOF |
| G006 | SITE PLAN AND DEVELOPMENT | A510 | STAIRS PLANS & SECTIONS |
| 00 4 0 0 1 11 5 0 7 1 11 | INFORMATION | A511 | STAIR DETAILS |
| 02-ARCHITECTU | | A512 | EXTERIOR DETAILS |
| A110 | FLOOR PLAN - BASEMENT | A513 | EXTERIOR DETAILS |
| A111 | FLOOR PLAN - LEVEL 1 | A601 | WINDOW SCHEDULE & TYPES |
| A112 | FLOOR PLAN - LEVEL 2 | | |
| A116 | FLOOR PLAN - ROOF | A610 | DOOR SCHEDULE & TYPES |
| A201 | ELEVATIONS | | |
| | | | |



COPYRIGHT RESERVED

THIS DRAWING, AS AN INSTRUMENT OF SERVICE, IS AND AT ALL TIMES REMAINS THE PROPERTY OF GARRET CORD WERNER, LLC. AND MAY NOT BE USED WITHOUT HIS WRITTEN PERMISSION. ALL DESIGNS AND OTHER INFORMATION SHOWN ON THIS DRAWING ARE FOR USE ON THE SPECIFIED PROJECT AND SHALL NOT BE OTHERWISE USED WITHOUT THE PERMISSION OF GARRET CORD

GENERAL NOTES:

ALL CODE COMPLIANCE TO BE VERIFIED
PRIOR TO CONSTRUCTION BY ARCHITECT AND

2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, DATUMS, AND LEVELS PRIOR TO THE START OF WORK.

3. ALL REVISIONS SHOWN TO BE VERIFIED BY ARCHITECT TO COMPLY WITH ALL BUILDING

CODES AND STANDARDS.

4. MILLWORKER TO CONFIRM ALL CLEARANCES.

5. PERMIT DRAWINGS - NOT TO BE USED FOR

CONSTRUCTION. 6. DO NOT SCALE FROM THIS DRAWING
7. ALL GLAZING TEMPERED SAFETY GLASS UNLESS OTHERWISE NOTED

8. ELECTRICAL & LIGHTING DRAWINGS FOR DESIGN PURPOSES ONLY. SUBCONTRACTOR TO NOTIFY ARCHITECT OF ANY DISCREPANCIES OR NON-COMPLIANCE OF BUILDING CODES.

DRAWN BY 3/22/2021 AHP SCALE CHECKED BY GCW

'FOO' RESIDENCE

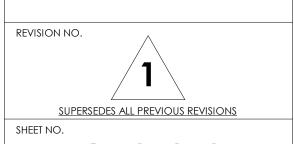
PROJECT

3453 74th Ave SE Mercer Island, WA 98040

REV DATE ISSUE/REVISION

7/15/20 Revision 1

COVER SHEET

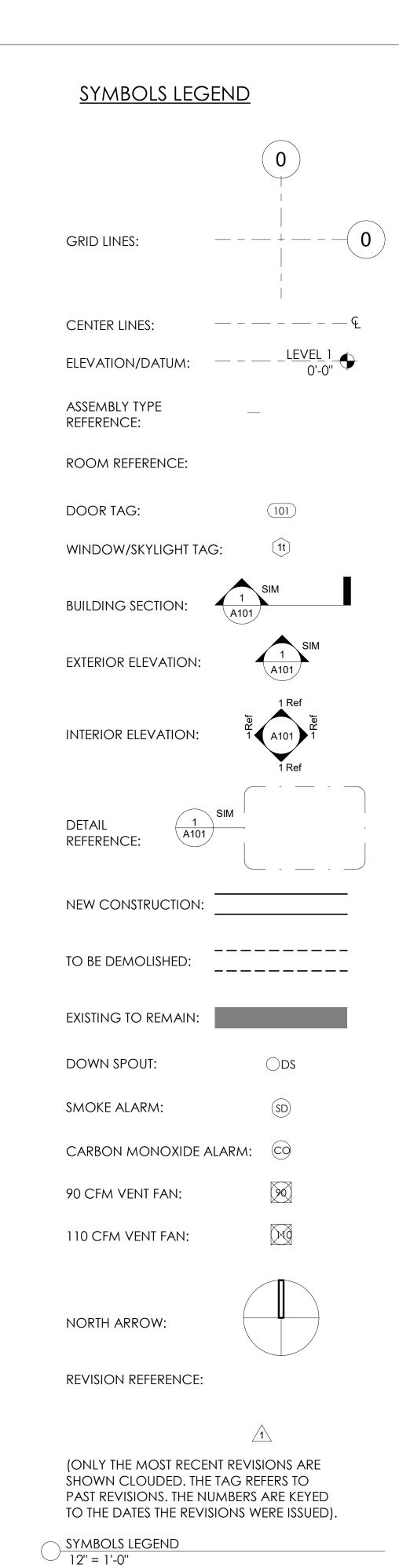


ABBREVIATIONS:

ENCLOSURE

ENCL

| <u>ABBRE</u> | <u>VIATIONS:</u> | | | | |
|----------------|--|------------------|---------------------------------------|---------------|---|
| AB | ANCHOR BOLT | ENG | ENGINEER | KIT | KITCHEN |
| ABV | ABOVE | ENT | ENTRANCE | KO | KNOCKOUT |
| ACC ACOUST | ACCESS ACOUSTICAL | EO EQ | EDGE OF EQUAL | KS | KITCHEN SINK |
| ACP | ASPHALT CONCRETE | EQUIP | EQUIPMENT | LAM | LAMINATE, LAMINATED |
| | PAVEMENT | EST | ESTIMATE | LAV | LAVATORY |
| ACT | ACOUSTICAL TILE | EW EXH | EACH WAY | LF LU | LINEAL FEET |
| AD ADD | AREA DRAIN ADDITIVE | EXIST | EXHAUST EXISTING | LH LL | LEFT HAND LIVE LOAD |
| ADJ | ADJUSTABLE | EXP | EXPANDED/EXPANSION | LN | LENGTH |
| AFF | ABOVE FINISH FLOOR | EXPO | EXPOSED | LP | LOW POINT |
| AGG AIB | AGGREGATE AIR AND MOISTURE BARRIER | EXT EXTR | EXTERIOR EXTRUDE | LOC LT | LOCATION LIGHT |
| ALT | ALTERNATIVE | LXIIX | EXTRODE | LTG | LIGHTING |
| ALUM | ALUMINUM | FA | FIRE ALARM | LTL | LINTEL |
| APPROV | ACCESS PANEL | FAB | FABRIC FLAT BAD | A 4 A N I | AAANIIIAI |
| APPROX ARCH | APPROXIMATE ARCHITECT/ARCHITECTURAL | FB FBP | FLAT BAR FABRIC PANEL | MAN MAS | MANUAL MASONRY |
| ASL | ABOVE SEA LEVEL | FBRK | FIRE BRICK | MATL | MATERIAL |
| ASPH | ASPHALT | FD | FLOOR DRAIN | MAX | MAXIMUM |
| AUTO | AUTOMATIC | FDN FE | FOUNDATION FIRE EXTINGUISHER | MB | MACHINE BOLT |
| BD | BOARD | FEC | FIRE EXTINGUISHER CABINET | MC MDO | MEDICINE CABINET MEDIUM DENSITY OVERLAY |
| BITUM | BITUMINOUS | FIN | FINISH | MECH | MECHANICAL |
| BLDG | BUILDING | F/F | FINISH TO FINISH | MEMB | MEMBRANE |
| BLK BM | BLOCK BEAM | FL; FLR FLASH | FLOOR; FLOORING FLASHING | MET MEZZ | metal mezzanine |
| BOT | BOTTOM | FLUOR | FLUORESCENT | MFR | MANUFACTURER |
| ВО | BOTTOM OF | FLX | FLEXIBLE | MH | MANHOLE |
| BSMT | BASEMENT | FO | FINISHED OPENING | MIN | MINIMUM |
| BRG BRK | BEARING BRICK | FOC FOF | FACE OF CONCRETE FACE OF FRAMING | MIR MISC | MIRROR MISCELLANEOUS |
| BUR | BUILT UP ROOFING | FOIC | FURNISHED BY OWNER | MLD | MOLDING |
| BVL | BEVELED | | INSTALLED BY CONTRACTOR | MO | MASONRY OPENING |
| | C A DINICT | FOM | FACE OF MASONRY | MOD | MODULE |
| CAB C/C | CABINET CENTER TO CENTER | FOS FRPF | FACE OF STUDS FIREPROOF | MTD MTL | MOUNTED MATERIAL |
| CEM | CEMENT | FRPL | FIREPLACE | MUL | MULLION |
| CER | CERAMIC | FR | FRAME | MWK | MILLWORK |
| CG Cl | CORNER GUARD CAST IRON | FRT FT | FIRE RETARDANT TREATED FOOT/FEET | N | NORTH |
| CIP | CAST-IN-PLACE | FTG | FOOTING | N/A | NOT APPLICABLE |
| CJ | CONTROL JOINT | FURN | FURNITURE | NIC | NOT IN CONTACT |
| CLG | CEILING | FURR | FURRING | NO | NUMBER |
| CLKG CLO | CAULKING CLOSET | FUT FV | FUTURE FIELD VERIFY | NOM NR | NOMINAL NOISE REDUCTION |
| CLC | CLEAR | FW | FULL WIDTH | NTS | NOT TO SCALE |
| CMU | CONCRETE MASONRY UNIT | | | | |
| CNTR | COUNTER | GA GAL | GAUGE GALLON | OA | OVERALL OBSCURE |
| COL CONC | COLUMN CONCRETE | GALV | GALVANIZED | OBS OC | ON CENTER |
| CONN | CONNECTION | GC | GENERAL CONTRACTOR | OD | OUTSIDE DIAMETER |
| CONSTR | CONSTRUCTION | GFCI | GROUND FAULT CIRCUIT | OFF | OFFICE |
| CONT CONTR | CONTINUOUS CONTRACTOR | GFRC | INTERRUPTOR GLASS FIBER REINFORCED | OH OPNG | OVERHEAD OPENING |
| CORR | CORRIDOR | Orke | CONCRETE | OPP | OPPOSITE OPPOSITE |
| CP | CONCRETE PAVER | GLS | GLASS | | |
| CPT | CARPET/CARPETED | GR GRND | GRADE GROUND | PB PC | PARTICLE BOARD |
| CRS CTSK | COURSE COUNTERSUNK | GRIG | GRATING | PC PCF | PRE-CAST CONCRETE POUNDS PER CUBIC FOOT |
| CT | CERAMIC TILE | GVL | GRAVEL | PERP | PERPENDICULAR |
| CTD | COATED | GWB | GYPSUM WALL BOARD | PL | PROPERTY LINE, PLATE |
| CTR CWC | CENTER CHILLED WATER CABINET | GYP | GYPSUM | P LAM PLAS | PLASTIC LAMINATE PLASTER |
| CVVC CU FT | CUBIC FEET | НВ | HOSE BIB | PLYWD | PLYWOOD |
| CVG | CLEAR VERTICAL GRAIN | HC | HOLLOW CORE | PNL | PANEL |
| DDI | DOUBLE | HD GALV | HOT DIPPED GALVANIZED | PR | PAIR |
| DBL DEMO | DOUBLE DEMOLITION | HDR HDO | HEADER HIGH DENSITY OVERLAY | PSF PSI | POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH |
| DET | DETAIL | HDWD | HARDWOOD | PT | POINT |
| DIA | DIAMETER | HDWE | HARDWARE | PTD | PAINTED |
| DIM DISP | DIMENSION DISPENSER | HM HORIZ | HOLLOW METAL HORIZONTAL | PTN PVC | PARTITION POLYVINYL CHLORIDE |
| DISI | DEAD LOAD | HP | HIGH POINT | 1 10 | TOLIVITUE CHECKIDE |
| DN | DOWN | HR | HOUR | QT | QUARRY TILE |
| DO | DOOR OPENING | HT HVAC | HEIGHT HEATING/VENTILATION/AIR | QTR QTY | QUARTER QUANTITY |
| DP DR | DAMPPROOFING DOOR | пуас | CONDITIONING | QH | QUANTITI |
| DS | DOWNSPOUT | HW | HOT WATER | R | RISER |
| DSP | DRY STANDPIPE | HWS | HOT WATER SUPPLY | RA | RETURN AIR |
| DTL DW | DETAIL DISHWASHER | HWT | HOT WATER TANK | RAD RB | RADIUS RUBBER BASE |
| DWG | DRAWING | ID | INSIDE DIAMETER | RCP | REFLECTED CEILING PLAN |
| DWGS | DRAWINGS | IN | INCH | RD | ROOF DRAIN |
| DWR | DRAWER | INCL | INCLUDE | RECP | RECEPTACLE |
| E | EAST | INCR INFO | INCREASE INFORMATION | REF REFR | REFERENCE REFRIGERATOR |
| EA | EACH | INSTL | INSTALL | REINF | REINFORCE |
| EB | EXPANSION BOLT | INSUL | INSULATION | REM | REMOVE |
| EE | EACH END | INT | INTERIOR | REQD | REQUIRED |
| EF EIFS | EACH FACE EXTERIOR INSULATION AND | INV | INVERT | RESIL REV | RESILIENT REVISION, REVISED |
| 🗸 | FINISH SYSTEM | JB | JUNCTION BOX | RF | ROOF |
| EJ | EXPANSION JOINT | JF | JOINT FILLER | RGH | ROUGH |
| EL ELEC | ELEVATION ELECTRICAL | JST JT | JOIST JOINT | RGTR RH | REGISTER RIGHT HAND |
| ELEV | ELEVATOR | J1 | 30mm | RM | ROOM |
| EMER | EMERGENCY | | | RMV | REMOVE |



SOUTH

SALVAGE

Sanitary

SCHEDULE

SECTION

SHELF

SHEET

SINK

SHOWER

SIMILAR

SQUARE

STRAIGHT

STANDARD

STORAGE

STAIRWAY

SURFACE

SUSPENDED

TOWEL BAR

TELEPHONE

THRESHOLD

THERMAL

THROUGH

TACK BOARD

TOLERANCE

TOP OF SLAB

TOP OF STEEL

THERMOSTAT TERRAZZO TILE

TELEVISION

TYPICAL

UTILITY

VARIES

VINYL BASE

VERTICAL

VESTIBULE

VENEER

VOLUME

WEST

WITH

WOOD

VINYL TILE

WOOD BASE

WATER CLOSET

WIRED GLASS

WATER HEATER

WATERPROOF

WALL COVERING

WATERPROOFING

WEATHERSTRIPPING

WINDOW

WITHOUT

WAINSCOT

WEIGHT

VERIFY IN FIELD

TOP OF WALL

TERRAZZO

THICK

TOILET

TOP OF

TREAD

SYMMETRICAL

TOP OF CURB

TONGUE AND GROOVE

TOILET PAPER HOLDER

UNLESS NOTED OTHERWISE

VINYL COMPOSITION TILE

STRUCTURAL

STATION

STEEL

SHEATHING

SPECIFICATION

SQUARE FOOT

SQUARE INCH

STAINLESS STEEL

SOLID CORE

SQUARE FOOT

SAFETY GLASS

SELF ADHERED FLASHING

SELF ADHERED MEMBRANE

SCOURED CONCRETE

SAF

SALV

SAM SAN

SC

SCHED

S CONC

SECT

SFGL

SH

SHR

SHT

SIM

SK

SPEC

SQ FT

SQ IN

SQ

SS

STA

STD

STL

STOR

STWY

SUR

SUSP

SYM

TC

TEL

TER

T&G

THK

THR

THRM

THRU

TKBD

TLT

TO

TOL

TPH

TRD

TSL

TST

TV

TW

TYP

UNO

UT

VAR

VВ

VCT

VERT

VEST

VNR

VOL

VT

WB

WC

WD

WG

WH

WIN

WLC

W/O

WP

WPR

WS

WT

ROUGH OPENING

RAIN WATER LEADER

RO

RWL

WSCT

VIF

TSTAT

STRUCT

SHTHG

SF

GENERAL CODES AND REGULATIONS

<u>Building Code</u> - 2015 International Residential Code (IRC) with statewide and City amendments

Mechanical Code - 2015 International Mechanical Code with statewide and City amendments 2014 Liquefied Petroleum Gas Code (NFPA 58) 2015 National Fuel Gas Code (NFPA 54) for LP gas 2015 International Fuel Gas Code with statewide and City amendments

<u>Plumbing Code</u> - 2015 Uniform Plumbing Code (UPC) including appendices A, B, and I, except chapters 12, 15 and portions of chapter 5 per WAC 51-56-003

Energy Code - 2015 WA State Residential Energy Code per WAC 51-11R

<u>Fire Code</u> - 2015 International Fire Code (IFC) including Appendix N as adopted by 51-54 WAC

Electrical Code - 2008 National Electrical Code (NEC) per WAC 296-46B-010

Zoning Code - City of Mercer Island Municipal Code

All surfaces shall be cleaned prior to occupancy.

TEL 206.749.9019 FAX 206.749.9128 WWW.GARRETCORDWERNER.COM

GARRET CORD WERNER LLC

3132 WESTERN AVE

COPYRIGHT RESERVED

THIS DRAWING, AS AN INSTRUMENT OF SERVICE, IS AND AT ALL TIMES REMAINS THE PROPERTY OF GARRET CORD WERNER, LLC. AND MAY NOT BE USED WITHOUT HIS WRITTEN PERMISSION. ALL DESIGNS AND OTHER INFORMATION SHOWN ON THIS DRAWING ARE FOR USE ON THE SPECIFIED PROJECT AND SHALL NOT BE OTHERWISE USED WITHOUT THE PERMISSION OF GARRET CORD WERNER, LLC.

GENERAL NOTES:

ALL CODE COMPLIANCE TO BE VERIFIED
PRIOR TO CONSTRUCTION BY ARCHITECT AND
ADA EXPERT.

2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, DATUMS, AND LEVELS PRIOR TO THE START OF WORK.

3. ALL REVISIONS SHOWN TO BE VERIFIED BY ARCHITECT TO COMPLY WITH ALL BUILDING CODES AND STANDARDS.

4. MILLWORKER TO CONFIRM ALL CLEARANCES
5. PERMIT DRAWINGS - NOT TO BE USED FOR CONSTRUCTION.
6. DO NOT SCALE FROM THIS DRAWING
7. DO NOT SCALE FROM THIS DRAWING

7. ALL GLAZING TEMPERED SAFETY GLASS
UNLESS OTHERWISE NOTED

8. ELECTRICAL & LIGHTING DRAWINGS FOR
DESIGN PURPOSES ONLY. SUBCONTRACTOR TO
NOTIFY ARCHITECT OF ANY DISCREPANCIES OF

| o. Lelondo le a lionni to | DIO WILL COLOR | | | |
|--|----------------|--|--|--|
| DESIGN PURPOSES ONLY. SU | BCONTRACTOR TO | | | |
| NOTIFY ARCHITECT OF ANY DISCREPANCIES OR | | | | |
| NON-COMPLIANCE OF BUILDING CODES. | | | | |
| DATE | DRAWN BY | | | |

| 3/22/2021 | | AHP | | |
|-----------|-------------|------------|--|--|
| | SCALE | CHECKED BY | | |
| | 12" = 1'-0" | GCW | | |

PROJECT

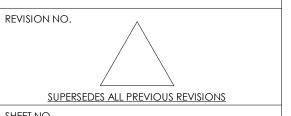
'FOO' RESIDENCE

3453 74th Ave SE Mercer Island, WA 98040

REV DATE ISSUE/REVISION



ABBREVIATIONS



G001

3/22/2021 1:18:07 PM

GENERAL REQUIREMENTS

Governing Codes and Regulations:

<u>Building Code</u> - 2015 International Residential Code (IRC) including appendices F, Q, and R, except chapters 11, 25-43 per WAC 51-51-003 - Chapter 51-51 WAC

Mechanical Code - 2015 International Mechanical Code (IMC) including adoption of 2015 International Fuel Gas Code, 2014 NFPA 58 & 2014 NFPA 54 - Chapter 51-52 WAC

<u>Plumbing Code</u> - 2015 Uniform Plumbing Code (UPC) including appendices A, B, and I, except chapters 12, 15 and portions of chapter 5 per WAC 51-56-003

Energy Code - 2015 WA State Residential Energy Code per WAC 51-11R

<u>Fire Code</u> - 2015 International Fire Code (IFC) including Appendix N as adopted by 51-54 WAC

Electrical Code - 2008 National Electrical Code (NEC) per WAC 296-46B-010

<u>Contractor Responsibilities:</u> It is the responsibility of the contractor to ensure compliance and conformance with the various provisions within these ordinances and codes in all of the work. The General Contractor is responsible for coordinating all work including additional permits and subcontractor work.

<u>Dimensions:</u> Dimensions that are not stated as "maximum" or "minimum" are absolute. All dimensions are subject to conventional industry tolerances. Verify and coordinate dimensions among all drawings prior to construction. Written dimensions take precedence over scaled lengths and heights in all cases. Do not scale the drawings.

<u>Discrepancies:</u> In the event of discrepancies or contradictory information in the drawings, notes, or specifications, it is the obligation of the contractor to notify the architect of the same and to obtain clarification from the architect before proceeding with the work. Any work done by the contractor after discovery of such discrepancy shall be done at the contractor's risk.

<u>Inspections:</u> Contractor shall be responsible for coordinating all building inspections. Required building inspections per IRC section R109 and WSEC 105:

- Foundation Inspection: after forms are erected and reinforcing steel is placed.Plumbing, mechanical, gas, and electrical systems inspection: prior to
- covering/concealment.
 Frame and masonry inspection: after the roof, masonry, firestopping, draftstopping, and bracing are in place and after plumbing, mechanical, and electrical rough inspections are approved.
- Special Inspections as required by the Engineer of Record.
 Wall insulation inspection: after all wall and cavity insulation is in place and prior to wall covering.
- Other inspections required by the Building Official.
- Final Inspection: after the permit work is complete and prior to occupancy.

Contract Documents: The Architect shall have the final authority with regard to interpretation of the intent and spirit of the contract documents. The Project Specifications are included by reference. All contract documents pertaining to this project are to be considered and interpreted for bidding and construction purposes as a complete whole. No part of the drawings or project specifications shall be distributed, considered, or used in any way independent of the complete set of documents.

<u>Typical Details:</u> Project drawings indicated general and typical details of construction. Where conditions are not specifically indicated but are of similar character to details shown, similar details of construction to those provided shall be used - subject to review and approval by the architect and the structural engineer.

Work and Data by Others: The architect assumes no responsibility for, nor verifies the accuracy of, any engineering data supplied by others.

<u>Submittals:</u> General Contractor to provide a minimum of 10 business days for architect to review. Shop drawings are required for the following components:

- Items required by consultants. See individual consultant documentation for any shop drawings required by their respective disciplines
- Windows and doorsSkylights and canopies
- Trellises not of wood
- Railing systems
- Gates and specialty doors
 Wine rack and shelving layout
- Wine rack and shelving layouts
- Casework and built-insSauna and steam rooms
- Other components called out in the specifications

<u>Changes:</u> Contractor initiated changes shall be submitted in writing to the architect and/or structural engineer for approval prior to fabrication or construction. Changes shown on shop drawings only do not satisfy this requirement. All changes - whether drawing or field required - shall have revisions approved & filed for record w/ the city once the original submission has been approved and the permit issued. Charge will be made by the city for all revision review and approvals including field inspections beyond that required under permit fees and paid for under estimated inspection fee.

<u>As-Built Drawings:</u> Contractor and subcontractors shall mark drawings for as-built condition. Mechanical, electrical, plumbing, and fire-protection drawings shall be revised for as-built conditions by their respective authors. Final as-built reproducible drawings shall be submitted to owner's representative.

<u>Safety:</u> Contractor shall be responsible for all required safety precautions and the methods, techniques, sequences, or procedures required to perform the work.

<u>Site Maintenance:</u> Contractor shall maintain a trash bin in an area designated by the owner's representative for the collection of all construction debris. Contractor shall dispose of all debris and remove trash bin prior to occupancy. All surfaces shall be cleaned prior to occupancy.

FIRE-RESITANT CONSTRUCTION

Occupancy Separation: The garage shall be separated from the dwelling unit and its attic area by not less than 1/2" gypsum wall board applied to the garage side. Garages shall be separated from all habitable rooms above and all structures supporting the floor/ceiling assembly by not less than 5/8" Type X gypsum board or equivalent. (Table R302.6)

Doors between the garage and the residence shall be minimum 1 3/8" thick solid wood, or 20-minute fire-rated, and shall be equipped with a self-closing device. (R302.5.1)

Ducts in the garage and ducts penetrating the separation assemblies shall be min 26 gage sheet steel and have no openings into the garage. (R302.5.2)

<u>Under-Stair Protection:</u> Enclosed accessible space under stairs shall be protected with minimum 1/2" gypsum board on the enclosed side. (R302.7)

<u>Fire Blocking:</u> Provide fire blocking in concealed wall spaces of stud walls and partitions vertically at ceiling and floor levels, at 10 feet max. horizontally, and at all interconnections of concealed vertical and horizontal spaces. Fire block concealed spaces between stair stringers at the top and bottom of run between studs and in line with the run of the stairs if the wall sunder the stairs are unfinished. Fire stop with non-combustible materials in openings around all vents, pipes, ducts, chimneys, fireplaces, and similar openings which afford passage for fire at ceiling and floor levels. (R302.11 & R1003.19)

<u>Draftstopping:</u> Draft stop floor/ceiling assemblies greater than 1,000 SF. into approximately equal areas with 1/2" gypsum board parallel to the floor framing members. (R302.12)

EGRESS

Egress Openings: Emergency escape and rescue openings shall have a minimum net clear opening of 5.7 sq. ft. except the minimum net clear opening for emergency escape and rescue grade-floor openings shall be 5 sq. ft. Where provided, they shall have a sill height of not more than 44" measured from the finished floor to the bottom of the clear opening. The minimum net clear opening height shall be 24". The minimum net clear opening width shall be 20". (R310.1)

Handrails: One handrail shall be provided at every stairway having four or more risers and shall be continuous for the full length of the flight. Provide 2 handrails where indicated on plans. Handrail height, measured above stair tread nosings, or finish surface of ramp slope, shall be uniform, not less than 34" and not more than 38". Handrails with a circular cross section shall have an outside diameter of at least 1.25" and not greater than 2". If the handrail is not circular, it shall have a perimeter dimension of at least 4" and not greater than 6.25" with a maximum cross-section dimension of 2.25". Handrails with a perimeter greater than 6.25" shall have a graspable finger recess area on both sides of the profile. (R311.7.8)

<u>Guards</u>: Guards shall be located along open-sided walking surfaces, mezzanines, stairways, ramps and landings which are located more than 30" above the floor or grade below and within 36" of the edge of the open side. Guards shall be 36" high minimum except guards whose top rail also serves as a stair handrail shall have a height of no less than 34" and not more than 38" measured vertically from the leading edge of the stair tread nosing. (R312)

Open guards shall have balusters or ornamental patterns such that a 4"-diameter sphere cannot pass through any opening except the triangular openings formed by the riser, tread, and bottom rail at the open side of a stairway shall not allow passage of a sphere of 6" in diameter. Guards on the open side of stairs shall not have openings which allow passage of a sphere 4-3/8" in diameter. (R312.1.3)

FIRE PROTECTION SYSTEMS

<u>Bidder Designed:</u> Fire Protection systems, if necessary, shall be bidder designed. Designated subcontractors are responsible for the preparation of drawings and applications for appropriate required permits.

Sprinkler System: An NFPA 13R fire sprinkler shall be provided in accordance with IRC P2904. The system shall be designed and the plans stamped by a person holding a Washington State Certificate of Competency. Contractor shall submit design to the Fire Department for approval. The system shall be installed by a state licensed sprinkler contractor.

Monitored Houshold Fire Alarm per NFPA 72 and Monitored Sprinkler Water Flow Alarm are required.

<u>Smoke Alarm System:</u> An approved automatic smoke alarm system shall be provided and installed in accordance with the warning equipment provisions of NFPA 72. Smoke alarms shall be provided inside each sleeping room, outside of each sleeping area, and on each story of the dwelling. Required smoke alarms shall be hardwired, interconnected, and have a battery backup. (R314)

<u>Carbon Monoxide Alarms:</u> Provide approved carbon monoxide alarms outside of each separate sleeping area and on each level of the dwelling. (R315)

FIREPLACES AND CHIMNEYS

<u>Factory-Built Fireplaces:</u> Factory-built fireplaces shall be UL listed, labeled and installed and terminated in accordance with the conditions of their listing. (R1004)

<u>Factory-Built Chimneys:</u> Factory-built chimneys shall be UL 127-96 listed, labeled, installed, and terminated in accordance with the manufacturer's installation instructions. (R1005)

<u>Hearth Extensions:</u> Hearth extensions of factory-built fireplaces shall be installed in accordance with the listing of the fireplace and shall be readily distinguishable from the surrounding floor area. (R1004.2)

<u>Flue Clearances:</u> Metal flues venting gas appliances shall have a minimum net clearance to combustible materials as required by the appliance manufacturer in accordance with the listing of the flue. (UMC 504(a))

GLASS, GLAZING & FENESTRATION

Glazing shall be in accordance with IRC section 308.

<u>Exterior Glazing:</u> All exterior wall glazing shall be double-glazed and comply with the Washington State Energy Code (WAC 51-11).

<u>Safety Glazing:</u> Install in areas subject to human impact (R308.4) Such hazardous locations include:

- Glazing in fixed and operable panels of swinging, sliding, and bifold doors
 Glazing in a fixed or operable panel adjacent to a door where the nearest vertical edge is within a 24" arch of the door in a closed position and whose bottom edge is less than 60" above the floor or walking surface except for:
- Decorative glazing
- Where there is an intervening wall
- Glazing in the wall perpendicular to the latch side of the door
 Adjacent to the fixed panel of patio doors
- Glazing in an individual or fixed panel that meets all of the following conditions:
- Exposed area of an individual pane greater than 9 square feet
- Bottom edge is less than 18" above the floor
 Top edge is greater than 36" above the floor
- One or more walking surfaces within 36" horizontally of the glazing
- All glazing in railings, regardless of an area or height above walking surface. Included are structural baluster panels and nonstructural in-fill panels.

- Glazing in walls, enclosures, or fences for hot tubs, spas, whirlpools, saunas, steam rooms, bathtubs, showers, and indoor or outdoor pools where the bottom exposed edge of the glazing is less than 60" above any standing or walking surface and within 60" horizontally of the water's edge.

- Glazing adjacent to stairways, landings, and ramps within 36" horizontally of a walking surface when the bottom exposed edge of the glass is less than 36" above the adjacent walking surface. Except when a rail is installed on the accessible side of the glazing 34" to 38" above the walking surface.
- Glazing adjacent to the landing at the bottom of a stairway within 60" horizontally of the bottom tread when the exposed surface of the glazing is less than 36" above the nose of the tread. Except when the glazing is protected by a guard complying with section R312 and the glass is more than 18" from the guard.

<u>Fenestration Products:</u> U-factors of fenestration products (windows, doors, and skylights) shall be determined in accordance with NFRC 100, with exception to garage door U-factors which shall be determined in accordance with either NFRC 100 or ANSI/DAMSA 105. U-factors shall be determined by an accredited, independent laboratory, and labeled and certified by the manufacturer per R303.1.3.

ENERGY EFFICIENCY

<u>Insulation and Vapor Barriers:</u> Application and installation of insulation and vapor barriers shall comply with WSEC. All insulating materials shall have a flame spread index of not more than 25 and a smoke-developed index of not more than 450. (R302.10.1)

<u>Air Leakage:</u> The building thermal envelope shall be constructed to limit air leakage in accordance with the requirements of WSEC R402.4.1 through R402.4.4.

<u>Testing:</u> The building shall be tested and verified as having an air leakage rate of not exceeding 5 air changes per hour. Testing shall be conducted with a blower door at a pressure of 0.2 inches w.g.. Testing shall be performed at nay time after creation of all penetrations of the building thermal envelope. (WSEC R402.4.1.2)

Ducts, air handlers, and filter boxes shall be sealed. Ducts shall be leak tested in accordance with WSU RS-33, using the maximum duct leakage rates specified. (R403.2.2)

<u>Air Barrier and Insulation:</u> The air barriers and insulation in walls, floors, roofs, and any other enclosures of conditioned space shall be installed in accordance with the manufacturer's instructions and the criteria listed in Table R402.4.1.1, or the building shall be tested and verified as having an air leakage rate of not exceeding 5 air changes per hour. (WSEC R402.2.4)

<u>Weatherstripping:</u> Access doors from conditioned spaces to unconditioned spaces shall be weatherstripped and insulated to a level equivalent to the insulation on surrounding surfaces. (WSEC R402.2.4)

<u>Thermostat:</u> Where the primary heating system is a forced-air furnace, at least one programmable thermostat shall be provided for each separate heating and cooling system. (WSEC R403.1)

Energy Certificate: A permanent certificate shall be posted on or within three feet of the electrical panel. The certificate shall be completed by the builder or registered design professional. The certificate shall list the R-values of insulation installed in or on ceiling/roof, walls, foundation (slab, below-grade wall, and/or floor), and ducts outside the conditioned spaces; U-factors for fenestration; and the solar heat gain coefficient (SHGC) of fenestration; and the results from any required duct system and building envelope air leakage testing. Where more than one value for each component, the certificate shall list the value covering the largest area. The certificate shall list the type and efficiency of heating, cooling, and service water heating equipment. Where a gasfired unvented room heater, electric furnace, or baseboard electric heater is installed, the certificate shall list this as appropriate. (WSEC R401.3)

STRUCTURAL SYSTEMS

<u>Structural Systems:</u> All structural systems (such as trusses) which are to be composed of components to be field erected shall be supervised by the supplier during manufacturing, delivery, handling, storage, and erection in accordance with instructions prepared by the supplier.

<u>Walls:</u> Exterior walls to be 2x6 wood studs at 16" o.c. unless indicated otherwise on plans. Interior walls to be 2x4 studs at 16" o.c. unless noted otherwise on plans.

Refer to structural documents by engineer of record for detailed information on structural components and connections.

SOILS AND FOUNDATIONS

<u>Soils:</u> The architect assumes no responsibility as to the physical characteristics of the soils. The geotechnical engineer shall inspect all excavations prior to pouring concrete.

<u>Damp-proofing:</u> Except where required by Section R406.2 to be waterproofed, foundation walls that retain earth and enclose interior spaces below grade shall be dampproofed from the top of the footing to the finished grade in accordance with one of the following: bituminous coating; three pounds per square yard of acrylic modified cement; 1/8" coat of surface-bonding cement complying with ASTM C 887; any material permitted for waterproofing in Section R406.2. (R406.1)

<u>Perimeter Drains:</u> Provide continuous 6" round perforated drain in gravel fill with filter fabric wrap at all foundation walls. Provide clean-outs such that all portions of drainage system can be adequately cleaned. Locate bottoms of drain pipes at the lowest point of wall footings and tight-line perimeter drains to storm sewer or other approved discharge. Do not connect the perimeter/foundation drain tight-line to any other tight-lines or site drainage systems. (R405)

Provide a minimum 12" wide layer of continuous gravel fill from bottom of footing to within 12" of finish grade - typical at all walls. Approved gravel fill consists of washed, clean, free drainage gravel ranging from 1/4" to 3/4" in size.

Site drainage shall conform to all local regulations and ordinances. Tight-line all roof drains to storm sewer system or approved discharge when storm sewers are not available. Refer to civil engineer's documents for additional information.

<u>Finish Grade</u>: Grade at the building face shall have a positive slope away from the building. All site hard surfaces to have a minimum slope of 1/8" per FT to drains unless otherwise noted.

WOOD AND WEATHER PROTECTION

<u>Exterior Structures:</u> Exterior wood framed decks and other wood framed structures exposed to weather: all wood shall be pressure treated to current American Wood Preservers Institute standards. This includes all plywood, trusses, sawn members, gluelaminated members, etc., unless noted otherwise. All nails and connectors shall be heavy-coat galvanized.

<u>Wood Protection:</u> Wood framing members in contact with exterior concrete foundations shall be pressure treated. Wood siding, sheathing, and wall framing on the exterior of the building less than 6" from the ground or less than 2" from slabs, steps, and similar horizontal surfaces shall be pressure treated. Ends of wood beams entering a concrete wall (pocket) shall have 1/2" clearance on top, sides, and ends. (R317)

<u>Wall Flashing:</u> Approved corrosion resistant flashing shall be applied shingle-fashion in a manner to prevent entry of water into the wall. Self-adhered membrane flashings shall comply with AAMA 711. The flashing shall extend to the surface of the exterior wall finish. Flashing shall be installed at exterior window and door openings; intersections of chimneys or other masonry with frame or stucco walls; under and at the ends of masonry, wood or metal copings and sills; above projecting wood trim; where exterior porches, decks or stairs attach to a wall or floor assembly of wood-frame construction; at wall and roof intersections; at gutters. (R703.8 and WAC 51-51-703)

<u>Roof Flashings:</u> Flashing shall be installed at wall and roof intersections, wherever there is a change in roof slope or direction, at gutters, and around roof openings in a manner that prevents moisture from entering the wall and roof assemblies. A flashing shall be installed to divert the water away from where the eave of a sloped roof intersects a vertical side wall. Where flashing is of metal, the metal shall be corrosion resistant with a thickness of not less than 0.019". (R903.2)

INTERIOR ENVIRONMENT

Attic Ventilation: The net free ventilating area of enclosed attics and rafter spaces shall not be less than 1/150 of the area of the space ventilated, except that 1/300 min. is permitted if 40%-50% of the required ventilating area is provided by ventilators located in the upper portion of the space no more than 3' below the ridge or highest point of the space, with the balance provided by eave or cornice vents. Where eave or cornice vents are installed, provide minimum 1-inch clear space between insulation and roof sheathing and the location of the vent. (R806)

<u>Exhaust Fans:</u> Exhaust fans vented to the exterior are required in bathrooms, water closets, laundry rooms, kitchens, and other rooms where water vapor or cooking odor is produced. (M1507.4 and WAC 51-51-1507)

Provide 50 CFM minimum fan flow rating at bathrooms, laundries, and similar rooms. Provide 300 CFM minimum for kitchens.

<u>Crawlspace Access:</u> Provide access to crawlspaces through a floor access opening of 18"x24" minimum or a perimeter wall access opening of 16"x24" minimum. (R408.4)

Attic Access: Provide access to any attic area having a clear height of over 30" and greater than 30 SF in size through an opening of 22"x30" minimum. A 30" minimum clear headroom in the attic space shall be provided at or above the access opening. Locate in a hallway or other readily-accessible location. (R807)

<u>Wet Areas:</u> Shower compartments and walls above bathtubs with installed shower heads shall be finished with a non-absorbent surface to a height not less than 72" above the floor. (R307.2)

<u>Solid Blocking:</u> Provide solid blocking in walls at connection points behind cabinets wall shelving, towel and grab bars, and other wall-hung items.

<u>Acoustical Insulation:</u> Provide sound attenuation blankets at all bathroom, toilet room, and powder room walls and other spaces as noted on plans. Provide sound attenuation blankets at all bathroom, toilet room, and powder room floors and ceilings when these rooms occur above or below a habitable space.

GARRET CORD WERNER LLC
3132 WESTERN AVE
SEATTLE WA
98121

TEL 206.749.9019
FAX 206.749.9128

COPYRIGHT RESERVED

WWW.GARRETCORDWERNER.COM

THIS DRAWING, AS AN INSTRUMENT OF SERVICE, IS AND AT ALL TIMES REMAINS THE PROPERTY OF GARRET CORD WERNER, LLC. AND MAY NOT BE USED WITHOUT HIS WRITTEN PERMISSION. ALL DESIGNS AND OTHER INFORMATION SHOWN ON THIS DRAWING ARE FOR USE ON THE SPECIFIED PROJECT AND SHALL NOT BE OTHERWISE USED WITHOUT THE PERMISSION OF GARRET CORD WERNER. LLC.

GENERAL NOTES:

ALL CODE COMPLIANCE TO BE VERIFIED
PRIOR TO CONSTRUCTION BY ARCHITECT AND
ADALESTED

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, DATUMS, AND LEVELS PRIOR TO THE START OF WORK.

3. ALL REVISIONS SHOWN TO BE VERIFIED BY ARCHITECT TO COMPLY WITH ALL BUILDING CODES AND STANDARDS.

4. MILLWORKER TO CONFIRM ALL CLEARANCES.
5. PERMIT DRAWINGS - NOT TO BE USED FOR CONSTRUCTION.
6. DO NOT SCALE FROM THIS DRAWING

7. ALL GLAZING TEMPERED SAFETY GLASS
UNLESS OTHERWISE NOTED
8. ELECTRICAL & LIGHTING DRAWINGS FOR
DESIGN PURPOSES ONLY. SUBCONTRACTOR TO
NOTIFY ARCHITECT OF ANY DISCREPANCIES OR

GCW

NON-COMPLIANCE OF BUILDING CODES.

DATE DRAWN BY

3/22/2021 AHP

SCALE CHECKED BY

'FOO' RESIDENCE

3453 74th Ave SE Mercer Island, WA 98040

REV DATE ISSUE/REVISION

7/15/20 Revision 1

DPD DEDICATED SPACE
APPROVALS IAMPS PACE

SHEET TITLE

GENERAL PROJECT NOTES AND REQUIREMENTS

REVISION NO.

HEET NO.

GOO2

3/22/2021 1:18:08 PM

Project Information FOO Residence 3453 74th Ave SE, Mercer Island, WA 98040 Parcel # 1300301965

Amir Parnianpour 800.478.1956 amir@garretcordwerner.com

This project will use the requirements of the Prescriptive Path below and incorporate the the minimum values listed. In addition, based on the size of the structure, the appropriate

number of additional credits are checked as chosen by the permit applicant.

Authorized Representative Each dwelling unit in a residential building shall comply with sufficient options from Table R406.2 so as to achieve

the following minimum number of credits: 1. Small Dwelling Unit: 1.5 credits Dwelling units less than 1500 square feet in conditioned floor area with less than 300 square feet of fenestration area. Additions to existing building that are greater than 500 square feet of heated floor area but less than 1500 2. Medium Dwelling Unit: 3.5 credits All dwelling units that are not included in #1 or #3. Exception: Dwelling units serving R-2 occupancies shall require 2.5 credits.

✓ 3. Large Dwelling Unit: 4.5 credits Dwelling units exceeding 5000 square feet of conditioned floor area.

4. Additions less than 500 square feet: .5 credits

Table R406.2 Summary

| I able IN4 | 00.2 Sullillary | | | |
|------------|--|-----------|-----------|------|
| Option | Description | Credit(s) | | |
| 1a | Efficient Building Envelope 1a | 0.5 | ✓ | 0.5 |
| 1b | Efficient Building Envelope 1b | 1.0 | | |
| 1c | Efficient Building Envelope 1c | 2.0 | | |
| 1d | Efficient Building Envelope 1d | 0.5 | | |
| 2a | Air Leakage Control and Efficient Ventilation 2a | 0.5 | | |
| 2b | Air Leakage Control and Efficient Ventilation 2b | 1.0 | ✓ | 1.0 |
| 2c | Air Leakage Control and Efficient Ventilation 2c | 1.5 | | |
| 3a | High Efficiency HVAC 3a | 1.0 | ✓ | 1.0 |
| 3b | High Efficiency HVAC 3b | 1.0 | | |
| 3c | High Efficiency HVAC 3c | 1.5 | | |
| 3d | High Efficiency HVAC 3d | 1.0 | | |
| 4 | High Efficiency HVAC Distribution System | 1.0 | | |
| 5a | Efficient Water Heating 5a | 0.5 | ✓ | 0.5 |
| 5b | Efficient Water Heating 5b | 1.0 | | |
| 5c | Efficient Water Heating 5c | 1.5 | ~ | 1.5 |
| 5d | Efficient Water Heating 5d | 0.5 | | |
| 6 | Renewable Electric Energy | 0.5 | *1200 kwh | 0.0 |
| Total Cre | edits | | | 4.50 |

*Please refer to Table R406.2 for complete option descriptions

Simple Heating System Size: Washington State

This heating system sizing calculator is based on the Prescriptive Requirements of the 2015 Washington State Energy Code (WSEC) and ACCA Manuals J and S. This calculator will calculate heating loads only. ACCA procedures for sizing cooling systems should be used to determine cooling loads. ease fill out all of the green drop-downs and boxes that are applicable to your project. As you make selections in the drop-downs for each section, sor

| ject Information | Contact Information |
|--|---|
| D Residence | Amir Parnianpour |
| 3 74th Ave SE, Mercer Island, WA 98040 | 800.478.1956 |
| cel#1300301965 | amir@garretcordwerner.com |
| Heating System Type: | Systems |
| see detailed instructions for each section, place your | rsor on the word "Instructions". |
| Design Temperature | |
| Instructions | Design Temperature Difference (ΔT) 45 |
| Mercer Island | ΔT = Indoor (70 degrees) - Outdoor Design Temp |
| Area of Building | |
| Conditioned Floor Area | |
| Instructions Conditioned Floor Area (s | ft) 5,306 |
| Average Ceiling Height | Conditioned Volume |
| Instructions Average Ceiling Height (ft | 9.0 47,754 |
| Glazing and Doors | U-Factor X Area = UA |
| Instructions U-0.28 | 0.280 2,260 632.86 |
| | |
| Skylights Instructions | U-Factor X Area = UA 0.50 0 — |
| | 0.50 |
| Insulation Attic | U-Factor X Area = UA |
| Instructions R-49 | 0.026 1,975 51.35 |
| | |
| Single Rafter or Joist Vaulted Ceilings | U-Factor X Area UA |
| Instructions R-38 Vented | 0.027 1,154 31.17 |
| Above Grade Walls (see Figure 1) | U-Factor X Area UA |
| Instructions R-21 INT plus R-4 ci | 0.043 5,951 255.89 |
| | LANGE DE LA CONTRACTOR |
| Floors Instructions | U-Factor X Area UA |
| R-30 | 0.029 330 9.57 |
| Below Grade Walls (see Figure 1) | U-Factor X Area UA |
| Instructions R-21 int plus R-5 ci | 0.028 1,344 37.63 |
| | |
| Slab Below Grade (see Figure 1) | F-Factor X Length UA 0.303 134 40.60 |
| R-10 Fully insulated | 0.303 134 40.60 |
| Slab on Grade (see Figure 1) | F-Factor X Length UA |
| R-10 Fully Insulated | 0.360 206 74.16 |
| Location of Dueta | |
| Location of Ducts Instructions | Duet Lookers Coefficient |
| Conditioned Space | Duct Leakage Coefficient |
| | 4,00 |
| | Sum of UA 1133.23 |
| | Envelope Heat Load 50,995 Btu / Hour |
| igure 1. | Sum of UA XAT |
| | Air Leakage Heat Load 23,208 Btu / Hour |
| Above Grade | Building Design Heat Load 74,204 Btu / Hour |
| Below Grade | Air Leakage + Envelope Heat Loss |
| A CHAN OF ONE | Building and Duct Heat Load 74,204 Btu / Hour |

Ducts in conditioned space: Sum of Building Heat Loss X 1 Maximum Heat Equipment Output Building and Duct Heat Loss X 1 25 for Heat Pump

ENERGY CODE NOTES

2015 WASHINGTON STATE ENERGY CODE

ALL DUCTS NOT LOCATED COMPLETELY INSIDE THE BUILDING THERMAL ENVELOPE DUCTS SHALL BE INSULATED TO A MINIMUM OF R-8.

ALL HEADERS IN EXTERIOR WALLS TO HAVE A MINIMUM R-10 INSULATION.

DWELLING UNIT IS REQUIRED TO BE PROVIDED WITH AT LEAST ONE PROGRAMMABLE THERMOSTAT FOR REGULATION OF TEMPERATURE (SEC 503.8.1).

MINIMUM 75% OF ALL INTERIOR LUMINAIRES SHALL BE HIGH EFFICACY LUMINAIRES, AND ALL EXTERIOR LIGHTING SHALL BE HIGH EFFICACY LUMINAIRES.

A SIGNED AFFIDAVIT DOCUMENTING THE DUCT LEAKAGE TEST RESULTS SHALL BE PROVIDED TO THE BUILDING INSPECTOR PRIOR TO AN APPROVED FINAL INSPECTION (SEC 503.10.2).

DUCT LEAKAGE TEST RESULTS SHALL BE PROVIDED TO THE BUILDING INSPECTOR AND HOMEOWNER PRIOR TO APPROVED FINAL INSPECTION (SEC 101.3.2.6 AND 503.10.2).

HEAT RECOVERY UNIT - MINIMUM SENSIBLE HEAT RECOVERY EFFICIENCY SHALL BE 0.70.

ROOF VENTILATION

NO ROOF VENTILATION. ALL ROOFS ARE A INSULATED WITH A FLASH AND BATT SYSTEM Min R-10 RIDGED OVER ROOF DECK

AIR IMPERIABLE SPRAY FOAM ——— BATT INSULATION Class II VAPOR BARETARDER APPLIED OVER INSULATION

VENTILATION CODE NOTES

WAC 51-13, WASHINGTON STATE VENTILATION AND INDOOR AIR QUALITY CODE AND INTERNATIONAL MECHANICAL CODE CHAPTER 15 AND IRC.

CONTINUOUSLY WHOLE HOUSE VENTILATION SYSTEM MINIMUM VENTILATION RATE = 105, PER IRC.

NOISE: WHOLE HOUSE FANS LOCATED FOUR FEET OR LESS FROM THE INTERIOR GRILLE SHALL HAVE A SONE RATING OF 1.0 OR LESS.

EXHAUST DUCTS SHALL TERMINATE OUTSIDE OF THE BUILDING.

OUTDOOR AIR DISTRIBUTION: OUTDOOR AIR SHALL BE DISTRIBUTED TO EACH HABITABLE ROOM BY MEANS SUCH AS INDIVIDUAL INLETS, SEPARATE DUCT SYSTEMS, OR A FORCED-AIR SYSTEM.

DOORS SHALL BE UNDERCUT TO A MINIMUM OF ONE-HALF INCH ABOVE THE SURFACE OF THE FINISH FLOOR COVERING. DOORS AND OPERABLE LITES IN WINDOWS ARE DEEMED NOT TO MEET THE OUTDOOR AIR SUPPLY INTAKE REQUIREMENTS.

SOURCE SPECIFIC VENTILIATION: INTERMITTENTLY OPERATING MINIMUM EXHAUST RATES FOR BATHROOMS IS 50 CFM, KITCHENS IS 100 CFM. SYSTEMS EXCEEDING 400 CFM'S VENTED TO OUTSIDE AIR MUST BE INTERLOCKED WITH MAKE-UP AIR. PROVIDE MAKE-UP AIR PER SECTION M1503.8. EXHAUST SHALL BE DISTCHARGED OUTSIDE AND BACKDRAFT DAMPERS ARE REQUIRED.

ENERGY CREDITS

TOTAL ENERGY CREDITS REQUIRED PER TABLE R406.2: 4.5 CREDITS

EFFICIENT BUILDING ENVELOPE

OPTION 1a:

0.5 CREDITS

VERTICAL FENESTRATION U = 0.28 NEW FLOOR OVER UNCONDITIONED SPACE REQUIRES R-38 INSULATION NEW SLAB ON GRADE REQUIRES THERMAL BREAK AT REIMITER FOOTING NEW SLAB ON GRADE REQUIRES 24" OF R-10 INSULATION AT PERIMETER

AIR LEAKAGE CONTROL AND EFFICIENT VENTILATION

OPTION 2b:

1.0 CREDITS

1.0 CREDITS

COMPLIANCE OF AIR LEAKAGE TO 2.0 AIR CHANGES PER HOUR MAXIMUM ALL WHOLE HOUSE VENTILATION REQUIREMENTS PER SECTION M1507.3 OF THE INTERNATIONAL RESIDENTIAL CODE SHALL BE MET WITH A HEAT RECOVERY VENTILATION SYSTEM WITH MINIMUM SENSIBLE HEAT RECOVERY EFFICIENCY OF 0.70.

HIGH EFFICIENCY HVAC EQUIPMENT OPTION 3a:

GAS, PROPANE OR OIL-FIRED FURNACE WITH MINIMUM AFUE OF 94%, TO QUALIFY TO CLAIM THIS CREDIT, THE BUILDING PERMIT DRAWINGS SHALL SPECIFY THE OPTIONBEING SELECTED AND SHALL SPECIFY THE HEATING EQUIPMENT TYPE AND THE MINIMUM EQUIPMENT EFFICIENCY.

EFFICIENT WATER HEATING

OPTION 5a:

0.5 CREDITS

ALL KITCHEN SINK FAUCETS SHALL BE RATED AT 1.75 GPM OR LESS. ALL SHOWERHEADS SHALL BE RATED AT 1.75 GPM OR LESS.

ALL OTHER LAVATORY FAUCETS SHALL BE RATED AT 1.0 GPM OR LESS.

EFFICIENT WATER HEATING

OPTION 5C:

1.5 CREDITS

GAS WATER HEATER WITH A MINIMUM EF OF 0.91% SHALL BE INSTALLED

GARRET CORD WERNER LLC 3132 WESTERN AVE SEATTLE WA TEL 206.749.9019 FAX 206.749.9128 WWW.GARRETCORDWERNER.COM

COPYRIGHT RESERVED

THIS DRAWING, AS AN INSTRUMENT OF SERVICE, IS AND AT ALL TIMES REMAINS THE PROPERTY OF GARRET CORD WERNER, LLC. AND MAY NOT BE USED WITHOUT HIS WRITTEN PERMISSION. ALL DESIGNS AND OTHER INFORMATION SHOWN ON THIS DRAWING ARE FOR USE ON THE SPECIFIED PROJECT AND SHALL NOT BE OTHERWISE USED WITHOUT THE PERMISSION OF GARRET CORD WERNER, LLC.

GENERAL NOTES:

 ALL CODE COMPLIANCE TO BE VERIFIED
PRIOR TO CONSTRUCTION BY ARCHITECT AND ADA EXPERT.

2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, DATUMS, AND LEVELS PRIOR TO THE START OF WORK.

3. ALL REVISIONS SHOWN TO BE VERIFIED BY ARCHITECT TO COMPLY WITH ALL BUILDING CODES AND STANDARDS.

4. MILLWORKER TO CONFIRM ALL CLEARANCES. PERMIT DRAWINGS - NOT TO BE USED FOR

CONSTRUCTION. 6. DO NOT SCALE FROM THIS DRAWING 7. ALL GLAZING TEMPERED SAFETY GLASS UNLESS OTHERWISE NOTED

8. ELECTRICAL & LIGHTING DRAWINGS FOR DESIGN PURPOSES ONLY, SUBCONTRACTOR TO NOTIFY ARCHITECT OF ANY DISCREPANCIES OR NON-COMPLIANCE OF BUILDING CODES.

DRAWN BY 3/22/2021 AHP

SCALE CHECKED BY GCW PROJECT

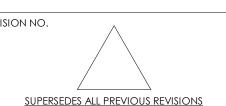
'FOO' RESIDENCE

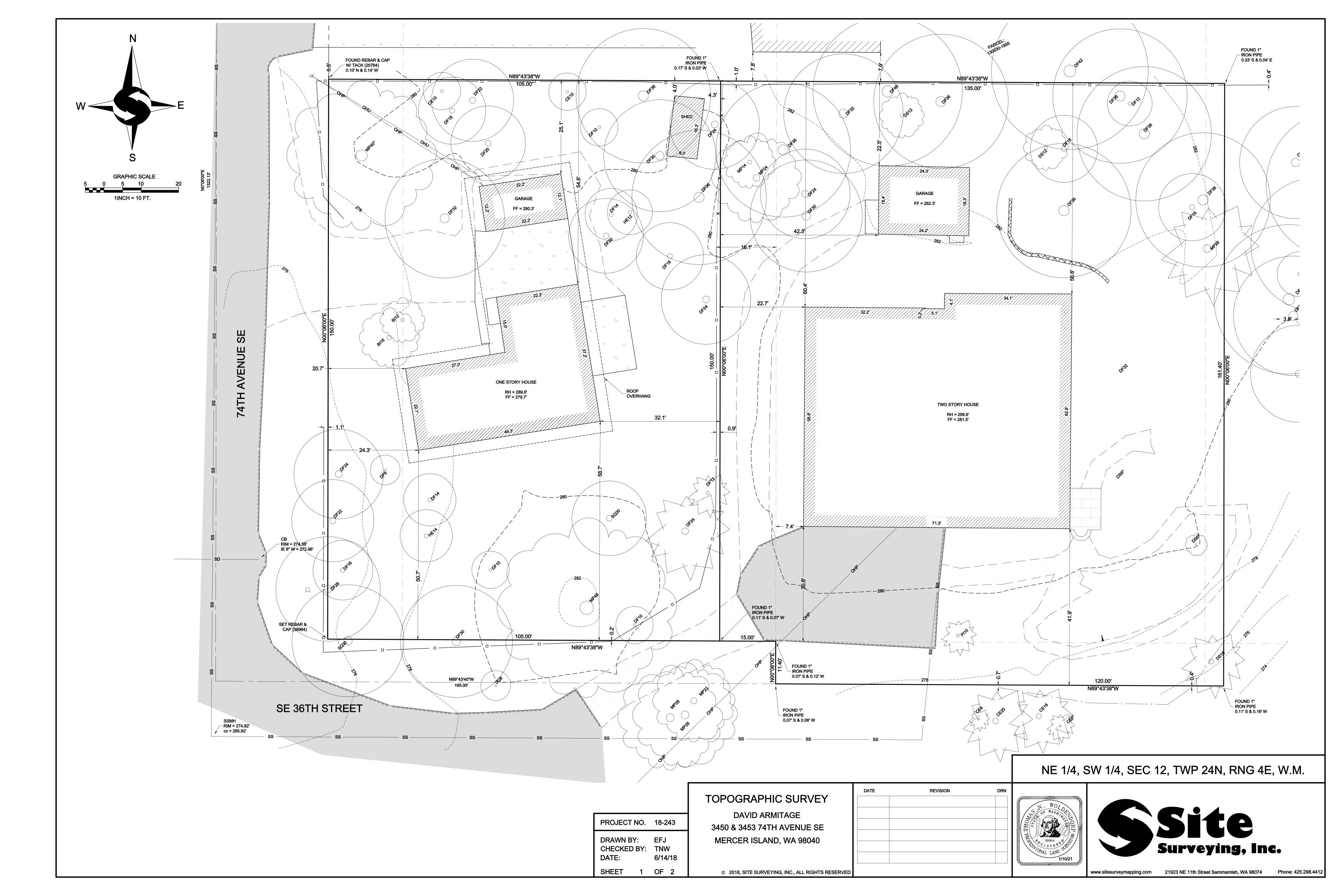
3453 74th Ave SE Mercer Island, WA 98040

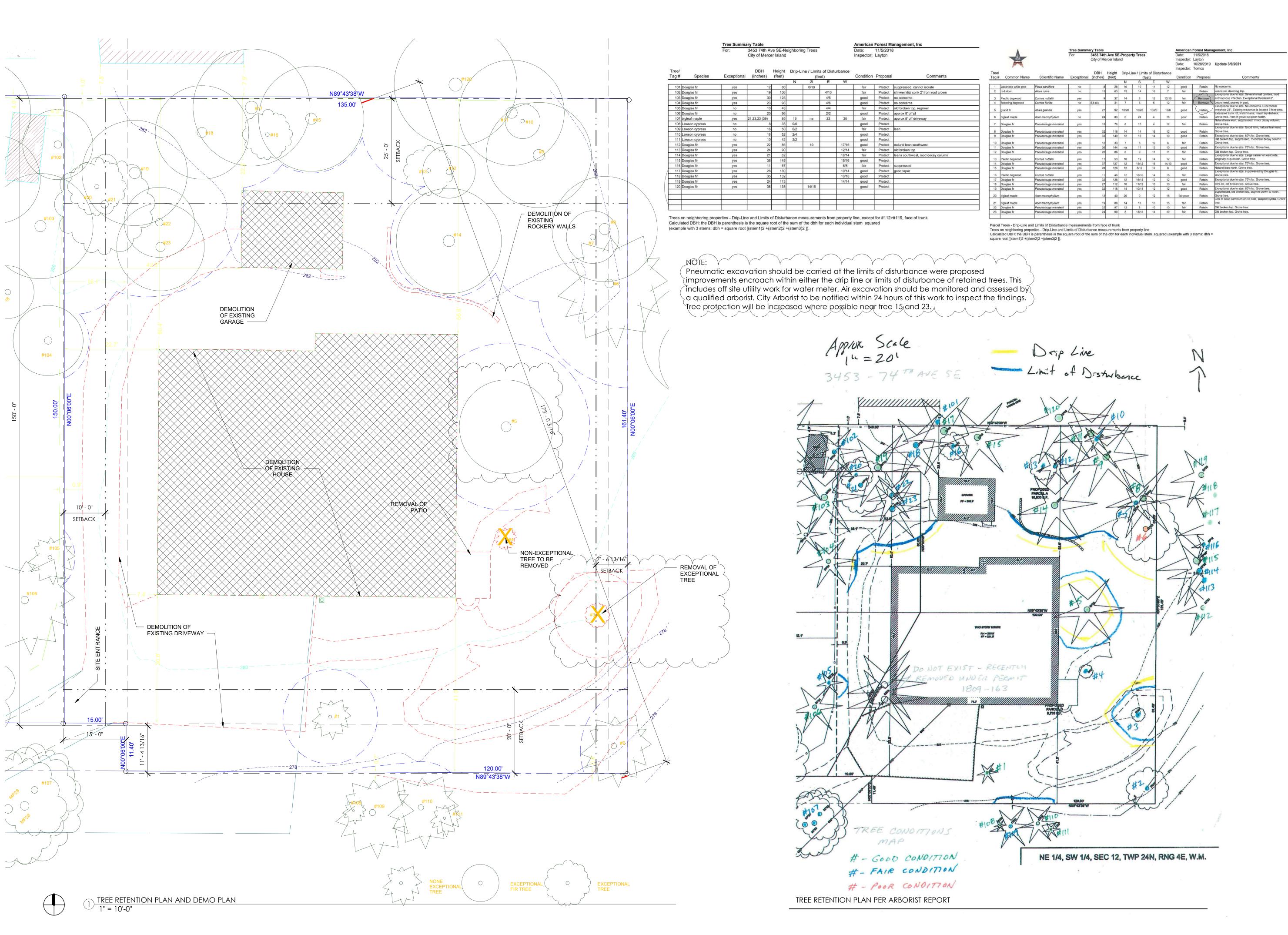
REV DATE ISSUE/REVISION



ENERGY CODE COMPLIANCE **WORKSHEET**







GARRET CORD WERNER LLC 3132 WESTERN AVE SEATTLE WA TEL 206.749.9019 FAX 206.749.9128 WWW.GARRETCORDWERNER.COM

COPYRIGHT RESERVED

THIS DRAWING, AS AN INSTRUMENT OF SERVICE, IS AND AT ALL TIMES REMAINS THE PROPERTY OF GARRET CORD WERNER, LLC. AND MAY NOT BE USED WITHOUT HIS WRITTEN PERMISSION. ALL DESIGNS AND OTHER INFORMATION SHOWN ON THIS DRAWING ARE FOR USE ON THE SPECIFIED PROJECT AND SHALL NOT BE OTHERWISE USED WITHOUT THE PERMISSION OF GARRET CORD WERNER, LLC.

GENERAL NOTES:

- ALL CODE COMPLIANCE TO BE VERIFIED
 PRIOR TO CONSTRUCTION BY ARCHITECT AND
- 2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, DATUMS, AND LEVELS PRIOR TO THE START OF WORK.
- 3. ALL REVISIONS SHOWN TO BE VERIFIED BY ARCHITECT TO COMPLY WITH ALL BUILDING
- CODES AND STANDARDS.

 4. MILLWORKER TO CONFIRM ALL CLEARANCES. 5. PERMIT DRAWINGS - NOT TO BE USED FOR
- CONSTRUCTION. 6. DO NOT SCALE FROM THIS DRAWING
 7. ALL GLAZING TEMPERED SAFETY GLASS
- UNLESS OTHERWISE NOTED 8. ELECTRICAL & LIGHTING DRAWINGS FOR DESIGN PURPOSES ONLY. SUBCONTRACTOR TO NOTIFY ARCHITECT OF ANY DISCREPANCIES OR NON-COMPLIANCE OF BUILDING CODES.

| DATE | DRAWN BY |
|---------------|------------|
| 3/22/2021 | AP |
| SCALE | CHECKED BY |
| 1'' = 10'-0'' | GCW |

'FOO' **RESIDENCE**

3453 74th Ave SE Mercer Island, WA 98040

REV DATE ISSUE/REVISION

7/15/20 Revision 1

2/25/21 City Comments Round 2



TREE RETENTION **PLAN AND DEMO PLAN**



MICC 19.02.020(F)(3)(d)

Development proposals for a new single-family home shall remove Japanese knotweed (Polygonum cuspidatum) and Regulated Class A, Regulated Class B, and Regulated Class C weeds identified on the King County Noxious Weed list, as amended, from required landscaping areas established pursuant to subsection (F)(3)(a) of this section. New landscaping associated with new single-family home shall not incorporate any weeds identified on the King County Noxious Weed list, as amended. Provided, that removal shall not be required if the removal will result in increased slope instability or risk of landslide or erosion.

WALL SEGMENT WALL SEGMENT LENGTH (FT) RESULT COVERAGE (%) ID 32.33 100% 100% V W 100% 16.5 16.5 Χ 100% 15.5 15.5 100% 48.83 48.83 100% 17.5 17.5 132.66 132.66

TOTAL BASEMENT AREA 887.63 Total Basement Area x Portion of Excluded Basement Σ(Wall Segment Coverage x 887.63 Wall Segment Length) Floor Area

LOT SLOPE CALCULATIONS

| HIGHEST ELEVATION POINT OF LOT: | 283.00 FT |
|--|-----------|
| | 203.0011 |
| LOWEST ELEVATION POINT OF LOT: | 275.00 FT |
| ELEVATION DIFFRENCE: | 8.00 FT |
| HORIZANTAL DISTANCE BETWEEN HIGH AND LOW POINTS: | 173.19FT |
| LOT SLOPE: | 4,62% |

LOT COVERAGE CALCULATIONS

| A. ALLOWED LOT COVERAGE | 40% OF LO |
|---|---------------|
| B. ALLOWED LOT COVERAGE AREA | 8,647.20 SF |
| D. NET LOT AREA | 21,618.00 SF |
| E. MAIN STRUCTURE ROOF AREA | 3,557.51 SF |
| F. ACCESSORY BUILDING ROOF AREA | 234.00 SF |
| G. VEHICULAR USE(DRIVEWAY, ACCESS EASEMENTS, PARKING) | 1,782.24 SF |
| H. TOTAL EXISTING LOT COVERAGE AREA | 7,395.00 SF |
| I. (TOTAL LOT COVERAGE AREA REMOVED) | 7,395.00 SF |
| J. TOTAL NEW LOT COVERAGE AREA | 5,573.75 SF |
| K. TOTAL PROJECT LOT COVERAGE AREA = (H-I) + J | 5,573.75 SI |
| N. PROPOSED LOT COVERAGE = $(K/D)X100$ | 25.78% OF LO |
| O. LANDSCAPING AREA | 74.22 % OF LO |
| | |

HARDSCAPE

| NET LOT AREA 9% OF NET LOT AREA UNUSED LOT COVERAGE TOTAL ALLOWABLE HARDSCAPE AREA ENTRY WALKWAY REAR YARD PATIO IN-GROUND POOL PAVED AREAS TOTAL HARDSCAPE ON PROPERTY | 21,618.00 SF 1,945.62 SF 3,073.45 SF 5,019.07 SF 177.00 SF 1,540.00 SF 756.00 SF 642.25 SF 3,115.25 SF |
|---|--|
|---|--|

| | BUILDING AREA | EXISTING AREA | REMOVED AREA | NEW AREA | TOTAL | |
|---|------------------------|---------------|--------------|-----------------|-------------|---|
| > | | | | | | _ |
| | UPPER FLOOR | 0 SF | 0 SF | 1,599.13 SF | 1,599.13 SF | |
| | MAIN FLOOR | 4,330 SF | 4,330 SF | 2,572.70 SF | 2,572.70 SF | |
| | GROSS BASEMENT AREA | 0 SF | 0 SF | 887.63 SF | 887.63 SF | |
| > | GARAGE / CARPORT | 436 SF | 436 SF | 567.40 SF | 567.40 SF | ~ |
| | TOTAL FLOOR AREA | 4,766 SF | 4,766 SF | 5,626.86 SF | 5,626.86 SF | |
| | | | | | | |
| > | ACCESSORY BUILDINGS | 0 SF | 0 SF | 234.00 SF | 234.00 SF | _ |
| | BASEMENT AREA EXCLUDED | 0 SF | 0 SF | - 887.63 SF | - 887.63 SF | |
| | 150 % GFA MODIFIER | O SF | 0 SF | 0 SF | 0 SF | |
| | 200 % GFA MODIFIER | 0 SF | 0 SF | 18.95 SF | 18.95 SF | |
| > | TOTAL BUILDING AREA | 4,766 SF | 4,766 SF | 4,997.78 SF | 4,992.18 SF | ~ |
| | | | | | | |

GROSS FLOOR AREA (GFA)

| A. LOT AREA | | |
|------------------------------|---|---|
| B. ALLOWED GROSS FLOOR AREA | | |
| C. PROPOSED GROSS FLOOR AREA | | |
| A A A | , | , |

| 1 1 1 | 1 1 |
|-------|-----------|
| | 4,992.18 |
| | 5,000.00 |
| | 21,618.00 |

| A | VERAGE | BUILDING | ELEVATIO |
|---|--------|----------|----------|
| | | | |

| | AVERAGE BUILDING ELEVATION | | | | |
|------------|----------------------------|--------------|-----------------------------|---------------|--|
| WALL ID | MIDPOINT ELEVATION (FT) | LENGTH ID | WALL SEGMENT LENGTH (FT) | ELEV x LENGTH | |
| Α | 280.10 | а | 20.00 | 5602.00 | |
| С | 280.30 | С | 13.00 | 3643.90 | |
| D | 280.30 | d | 2.00 | 560.60 | |
| Е | 280.30 | е | 2.00 | 560.60 | |
| F | 280.30 | f | 16.00 | 4538.8 | |
| G | 280.50 | g | 2.00 | 561.00 | |
| Н | 280.50 | h | 2.00 | 561.00 | |
| 1 | 281.00 | i | 51.00 | 14331.00 | |
| J | 281.70 | j | 7.50 | 2112.75 | |
| K | 281.80 | k | 13.00 | 3663.40 | |
| L | 282.00 | I | 30.00 | 8460.00 | |
| М | 281.70 | m | 77.00 | 21675.50 | |
| N | 280.50 | n | 25.50 | 7152.75 | |
| 0 | 280.00 | 0 | 20.00 | 5600.00 | |
| Р | 279.70 | р | 35.00 | 9789.50 | |
| | | TOTAL | 316 | 88774.2 | |
| | ABE | | (ELEVxLENGTH)/ LENGTH | 280.93 | |
| НІС | HIGHEST BUILDING ELEVATION | | (ABE + 30.00') | 310.93 | |

| ADU AVERAGE BUILDING ELEVATION | | | | | | |
|--------------------------------|----------------------------|--------------------------|-----------------------------|---------------|--|--|
| WALL ID | MIDPOINT ELEVATION (FT) | LENGTH ID | WALL SEGMENT LENGTH (FT) | ELEV x LENGTH | | |
| Q | 282.00 | q | 10.00 | 2820.00 | | |
| R | 282.20 | r | 23.40 | 6603.48 | | |
| S | 282.20 | S | 10.00 | 2822.00 | | |
| T | 282.00 | † | 23.40 | 6598.8 | | |
| | | TOTAL | 382.80 | 18844.28 | | |
| ABE | | (ELEVxLENGTH)/ LENGTH | 282.10 | | | |
| HIGHEST BUILDING ELEVATION | | (ABE + 17.00') | 299.10 | | | |
| | | | | | | |

3132 WESTERN AVE SEATTLE WA

GARRET CORD WERNER LLC

TEL 206.749.9019 FAX 206.749.9128 WWW.GARRETCORDWERNER.COM

COPYRIGHT RESERVED

THIS DRAWING, AS AN INSTRUMENT OF SERVICE, IS AND AT ALL TIMES REMAINS THE PROPERTY OF GARRET CORD WERNER, LLC. AND MAY NOT BE USED WITHOUT HIS WRITTEN PERMISSION. ALL DESIGNS AND OTHER INFORMATION SHOWN ON THIS DRAWING ARE FOR USE ON THE SPECIFIED PROJECT AND SHALL NOT BE OTHERWISE USED WITHOUT THE PERMISSION OF GARRET CORD

GENERAL NOTES:

 ALL CODE COMPLIANCE TO BE VERIFIED
PRIOR TO CONSTRUCTION BY ARCHITECT AND 2. THE CONTRACTOR SHALL VERIFY ALL

DIMENSIONS, DATUMS, AND LEVELS PRIOR TO THE START OF WORK. 3. ALL REVISIONS SHOWN TO BE VERIFIED BY

ARCHITECT TO COMPLY WITH ALL BUILDING CODES AND STANDARDS. 4. MILLWORKER TO CONFIRM ALL CLEARANCES 5. PERMIT DRAWINGS - NOT TO BE USED FOR

CONSTRUCTION. 6. DO NOT SCALE FROM THIS DRAWING 7. ALL GLAZING TEMPERED SAFETY GLASS UNLESS OTHERWISE NOTED 8. ELECTRICAL & LIGHTING DRAWINGS FOR DESIGN PURPOSES ONLY. SUBCONTRACTOR TO

NOTIFY ARCHITECT OF ANY DISCREPANCIES OR

| NON-COMPLIANCE OF BUILDING CODES. | | | |
|-----------------------------------|----------------------------|--|--|
| DATE DRAWN BY | | | |
| 3/22/2021 | AHP | | |
| SCALE | CHECKED BY | | |
| 1'' = 10'-0'' | GCW | | |
| | DATE 3/22/2021 SCALE | | |

'FOO' RESIDENCE

3453 74th Ave SE Mercer Island, WA 98040

REV DATE ISSUE/REVISION

7/15/20 Revision 1 10/28/20 City Comments 2/25/21 City Comments Round 2



SITE PLAN AND **DEVELOPMENT INFORMATION**



GREATER THAN 4" PER IRC

R311.7.8 & R312.1

BASEMENT WILL NOT BE USED AS AN ADU.

SD SMOKE DETECTORS

IRC R314.3 SMOKE ALARMS SMOKE ALARMS SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS:

- IN EACH SLEEPING ROOM
- OUTSIDE EACH SEPERATE SLEEPING AREA IN THE IMMEDIATE VACINITY OF THE BEDROOMS.

- ON EACH ADDITIONAL STORY OF THE DWELLING, INCLUDING BASEMENTS, BUT NOT INCLUDING CRAWLSPACES AND UNINHABITABLE ATTICS. IN DWELLINGS OR DWELLING UNITS WITH SPLIT LEVELS AND WITHOUT AN INTERVENING DOOR BETWEEN ADJACENT LEVELS, A SMOKE ALARM INSTALLED ON THE UPPER FLOOR SHALL SUFFICE FOR THE ADJACENT LOWER STOREY BELOW THE UPPER LEVEL.

SMOKE DETECTORS ARE TO BE HARDWIRED, INTERCONNECTED, WITH BATTERY BACKUP PER IRC R314.4

VENTILATION SCHEDULE

- 100 CFM ON SWITCH
- 105 CFM CONTINUOUSLY OPERATED WHOLE-HOUSE FAN, SIZED PER TABLE IRC M1507.3.3(1)
- 50 CFM ON SWITCH

MIN. 4 S. I. SCREENED OUTDOOR AIR INLET - WALL PORT OR WINDOW VENT AS REQUIRED.

MECHANICAL VENTILATION SYSTEM IN BATHROOMS, LAUNDRY ROOMS, AND SIMILAR ROOMS SHOULD EXHAUST DIRECTLY TO THE OUTSIDE. THE POINT OF DISCHARGE OF EXHAUST SHALL BE AT LEAST THREE FEET (3') FROM ANY OPENING INTO THE BUILDING PER IRC 1502.3 WHOLE-HOUSE EXHAUST FANS SHALL HAVE A SONE RATING OF 1.0 OR LESS WHEN LOCATED FOUR FEET (4') OR LESS FROM THE INTERIOR GRILLE PER IMC 403.8.8.5 / IRC 1507.3.4.2

© CARBON MONOXIDE DETECTORS

IRC R315.1 CARBON MONOXIDE ALARMS. FOR NEW CONSTRUCTION, CARBON MONOXIDE ALARMS SHALL BE INSTALLED OUTSIDE OF EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS IN DWELLING UNITS AND ON EACH LEVEL OF THE DWELLING UNIT AND IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.



MECHANICAL ROOM NOTES

- IN SEISMIC ZONES DO, D1 & D2, WATER HEATERS SHALL BE ANCHORED TO RESIST HORIZONTAL DISPLACEMENT DUE TO EARTHQUAKE MOTION. STRAPPING SHALL BE AT POINTS WITHIN THE UPPER ONE-THIRD AND LOWER ONE-THIRD OF ITS VERTICAL DIMENSIONS PER IRC R802.1 - PROVIDE OUTDOOR COMBUSTION AIR FOR FURNACE AND WATER HEATER.

GARRET CORD WERNER LLC 3132 WESTERN AVE SEATTLE WA TEL 206.749.9019 FAX 206.749.9128

COPYRIGHT RESERVED

WWW.GARRETCORDWERNER.COM

THIS DRAWING, AS AN INSTRUMENT OF SERVICE, IS AND AT ALL TIMES REMAINS THE PROPERTY OF GARRET CORD WERNER, LLC. AND MAY NOT BE USED WITHOUT HIS WRITTEN PERMISSION. ALL DESIGNS AND OTHER INFORMATION SHOWN ON THIS DRAWING ARE FOR USE ON THE SPECIFIED PROJECT AND SHALL NOT BE OTHERWISE USED WITHOUT THE PERMISSION OF GARRET CORD WERNER, LLC.

GENERAL NOTES:

- ALL CODE COMPLIANCE TO BE VERIFIED
 PRIOR TO CONSTRUCTION BY ARCHITECT AND
- DIMENSIONS, DATUMS, AND LEVELS PRIOR TO THE START OF WORK. 3. ALL REVISIONS SHOWN TO BE VERIFIED BY

2. THE CONTRACTOR SHALL VERIFY ALL

ARCHITECT TO COMPLY WITH ALL BUILDING CODES AND STANDARDS. 4. MILLWORKER TO CONFIRM ALL CLEARANCES

5. PERMIT DRAWINGS - NOT TO BE USED FOR

- CONSTRUCTION. 6. DO NOT SCALE FROM THIS DRAWING 7. ALL GLAZING TEMPERED SAFETY GLASS UNLESS OTHERWISE NOTED 8. ELECTRICAL & LIGHTING DRAWINGS FOR
- DESIGN PURPOSES ONLY, SUBCONTRACTOR TO NOTIFY ARCHITECT OF ANY DISCREPANCIES OR NON-COMPLIANCE OF BUILDING CODES.

| 3/22/2021 | AHP |
|----------------|------------|
| SCALE | CHECKED BY |
| 1/4'' = 1'-0'' | GCW |

PROJECT

'FOO' RESIDENCE

3453 74th Ave SE Mercer Island, WA 98040

REV DATE ISSUE/REVISION

7/15/20 Revision 1

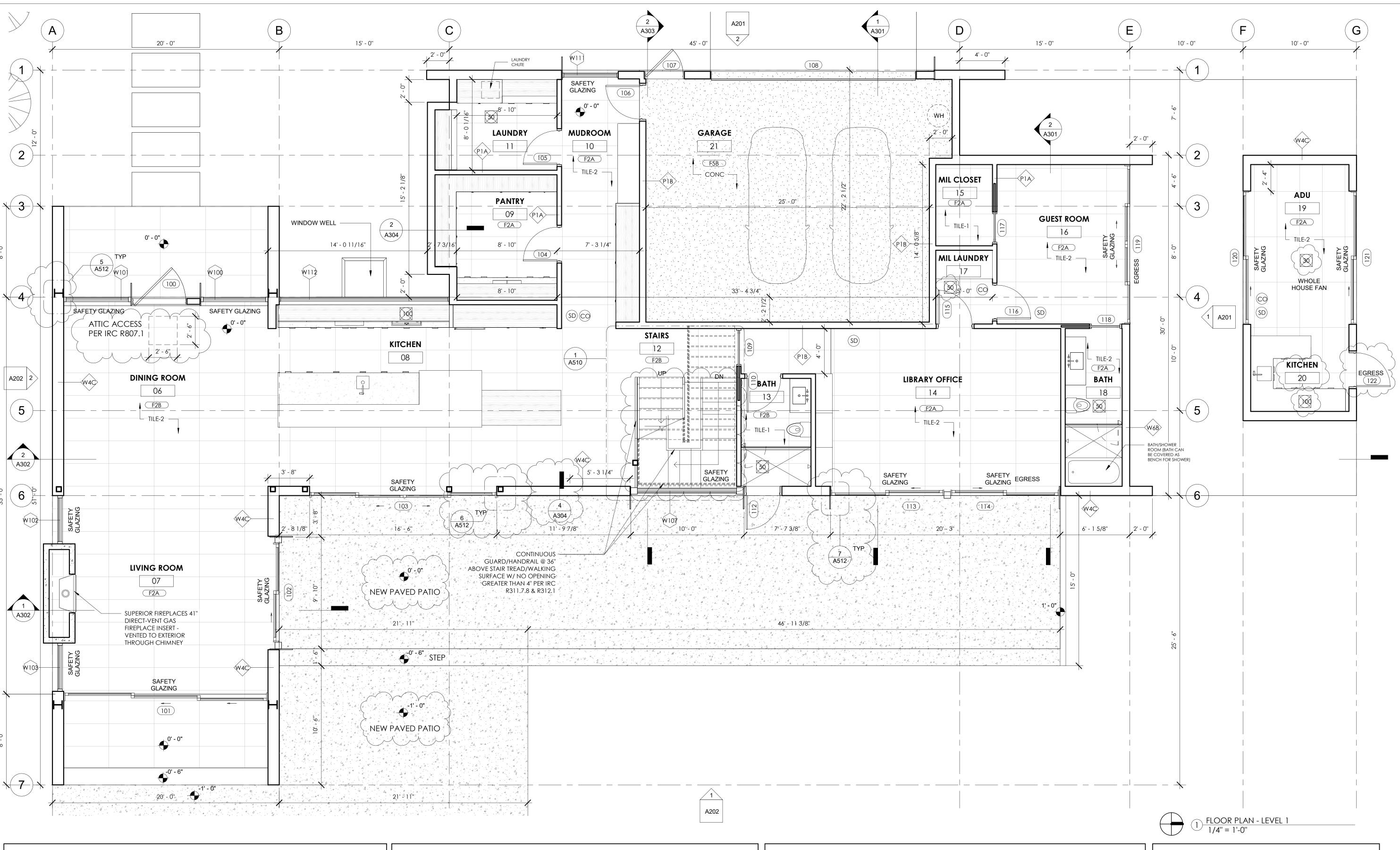
10/28/20 City Comments 2/25/21 City Comments Round 2



FLOOR PLAN -**BASEMENT**

REVISION NO.





SD SMOKE DETECTORS

IRC R314.3 SMOKE ALARMS SMOKE ALARMS SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS:

- IN EACH SLEEPING ROOM

- OUTSIDE EACH SEPERATE SLEEPING AREA IN THE IMMEDIATE VACINITY OF THE BEDROOMS.

- ON EACH ADDITIONAL STORY OF THE DWELLING, INCLUDING BASEMENTS, BUT NOT INCLUDING CRAWLSPACES AND UNINHABITABLE ATTICS. IN DWELLINGS OR DWELLING UNITS WITH SPLIT LEVELS AND WITHOUT AN INTERVENING DOOR BETWEEN ADJACENT LEVELS, A SMOKE ALARM INSTALLED ON THE UPPER FLOOR SHALL SUFFICE FOR THE ADJACENT LOWER STOREY BELOW THE UPPER LEVEL.

SMOKE DETECTORS ARE TO BE HARDWIRED, INTERCONNECTED, WITH BATTERY BACKUP PER IRC R314.4

VENTILATION SCHEDULE

100 CFM ON SWITCH

105 CFM CONTINUOUSLY OPERATED WHOLE-HOUSE FAN, SIZED PER TABLE IRC M1507.3.3(1)

50 CFM ON SWITCH

MIN. 4 S. I. SCREENED OUTDOOR AIR INLET - WALL PORT OR WINDOW VENT AS REQUIRED.

MECHANICAL VENTILATION SYSTEM IN BATHROOMS, LAUNDRY ROOMS, AND SIMILAR ROOMS SHOULD EXHAUST DIRECTLY TO THE OUTSIDE. THE POINT OF DISCHARGE OF EXHAUS SHALL BE AT LEAST THREE FEET (3') FROM ANY OPENING INTO THE BUILDING PER IRC 1502.3 WHOLE-HOUSE EXHAUST FANS SHALL HAVE A SONE RATING OF 1.0 OR LESS WHEN LOCATED FOUR FEET (4') OR LESS FROM THE INTERIOR GRILLE PER IMC 403.8.8.5 / IRC 1507.3.4.2

30 CFM CONTINUOUSLY

PERATED WHOLE-HOUSE

FAN, SIZED PER TABLE IRC

M1507.3.3(1) FOR ADU

GARAGE NOTES

THE GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAN 1/2" GWB APPLIED TO THE GARAGE SIDE. GARAGES BENEATH HABITABLE ROOMS ABOVE BY NOT LESS THAN 5/8" TYPE-X GYPSUM BOARD OR EQUIVALENT. WHERE THE SEPARATION IS A FLOOR-CEILING ASSEMBLY, THE STRUCTURE SUPPORTING THE SEPARATION SHALL ALSO BE PROTECTED BY NOT LESS THAN 1/2" GYPSUM BOARD OR EQUIVALENT. IRC R309.2

- OPENINGS BETWEEN THE GARAGE AND RESIDENCE SHALL BE EQUIPPED WITH SOLID WOOD DOORS NOT LESS THAN 1 3/8" THICKNESS, SOLID OR HONEYCOMB CORE STEEL DOORS NOT LESS THAN 1-3/8" THICK OR 20-MINUTE FIRE-RATED DOORS. SRC 309.1

MECHANICAL ROOM NOTES

IN SEISMIC ZONES DO, D1 & D2, WATER HEATERS SHALL BE ANCHORED TO RESIST HORIZONTAL DISPLACEMENT DUE TO EARTHQUAKE MOTION. STRAPPING SHALL BE AT POINTS WITHIN THE UPPER ONE-THIRD AND LOWER ONE-THIRD OF ITS VERTICAL DIMENSIONS PER IRC R802.1 - PROVIDE OUTDOOR COMBUSTION AIR FOR FURNACE AND WATER HEATER.

GARRET CORD WERNER LLC 3132 WESTERN AVE SEATTLE WA TEL 206.749.9019 FAX 206.749.9128 WWW.GARRETCORDWERNER.COM

COPYRIGHT RESERVED

THIS DRAWING, AS AN INSTRUMENT OF SERVICE, IS AND AT ALL TIMES REMAINS THE PROPERTY OF GARRET CORD WERNER, LLC. AND MAY NOT BE USED WITHOUT HIS WRITTEN PERMISSION. ALL DESIGNS AND OTHER INFORMATION SHOWN ON THIS DRAWING ARE FOR USE ON THE SPECIFIED PROJECT AND SHALL NOT BE OTHERWISE USED WITHOUT THE PERMISSION OF GARRET CORD

GENERAL NOTES:

1. ALL CODE COMPLIANCE TO BE VERIFIED PRIOR TO CONSTRUCTION BY ARCHITECT AND ADA EXPERT. 2. THE CONTRACTOR SHALL VERIFY ALL

START OF WORK. 3. ALL REVISIONS SHOWN TO BE VERIFIED BY ARCHITECT TO COMPLY WITH ALL BUILDING

DIMENSIONS, DATUMS, AND LEVELS PRIOR TO THE

CODES AND STANDARDS. 4. MILLWORKER TO CONFIRM ALL CLEARANCES . PERMIT DRAWINGS - NOT TO BE USED FOR CONSTRUCTION.

6. DO NOT SCALE FROM THIS DRAWING '. ALL GLAZING TEMPERED SAFETY GLASS UNLESS OTHERWISE NOTED 8. ELECTRICAL & LIGHTING DRAWINGS FOR DESIGN PURPOSES ONLY, SUBCONTRACTOR TO NOTIFY ARCHITECT OF ANY DISCREPANCIES OR

NON-COMPLIANCE OF BUILDING CODES.

| DRAWN BY |
|------------|
| AP |
| CHECKED BY |
| GCW |
| |

'FOO' RESIDENCE

PROJECT

3453 74th Ave SE Mercer Island, WA 98040

REV DATE ISSUE/REVISION

7/15/20 Revision 1 10/28/20 City Comments

2/25/21 City Comments Round 2



FLOOR PLAN -LEVEL 1

© CARBON MONOXIDE DETECTORS

IRC R315.1 CARBON MONOXIDE ALARMS. FOR NEW

CONSTRUCTION, CARBON MONOXIDE ALARMS SHALL

BE INSTALLED OUTSIDE OF EACH SEPARATE SLEEPING

AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS

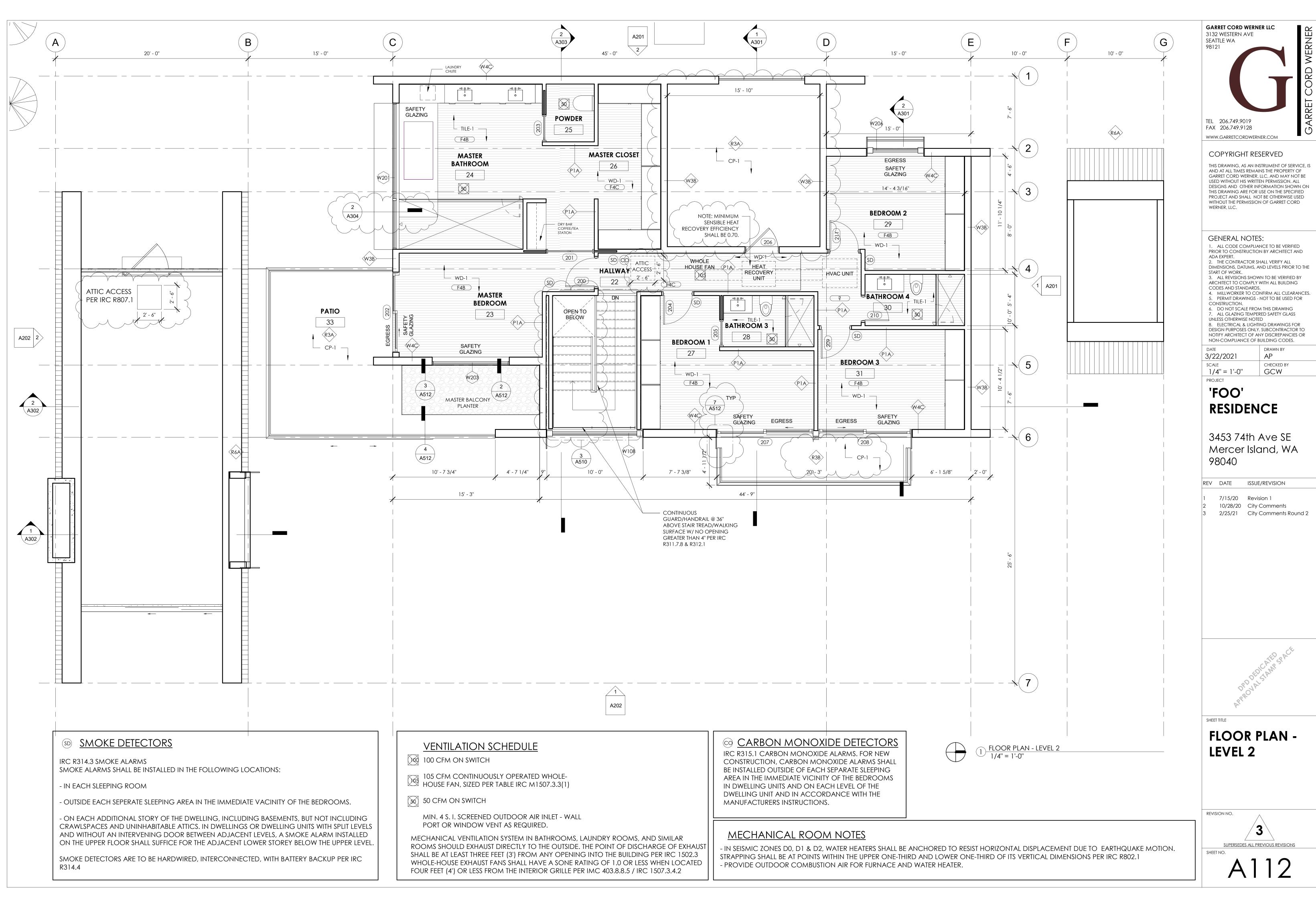
IN DWELLING UNITS AND ON EACH LEVEL OF THE

DWELLING UNIT AND IN ACCORDANCE WITH THE

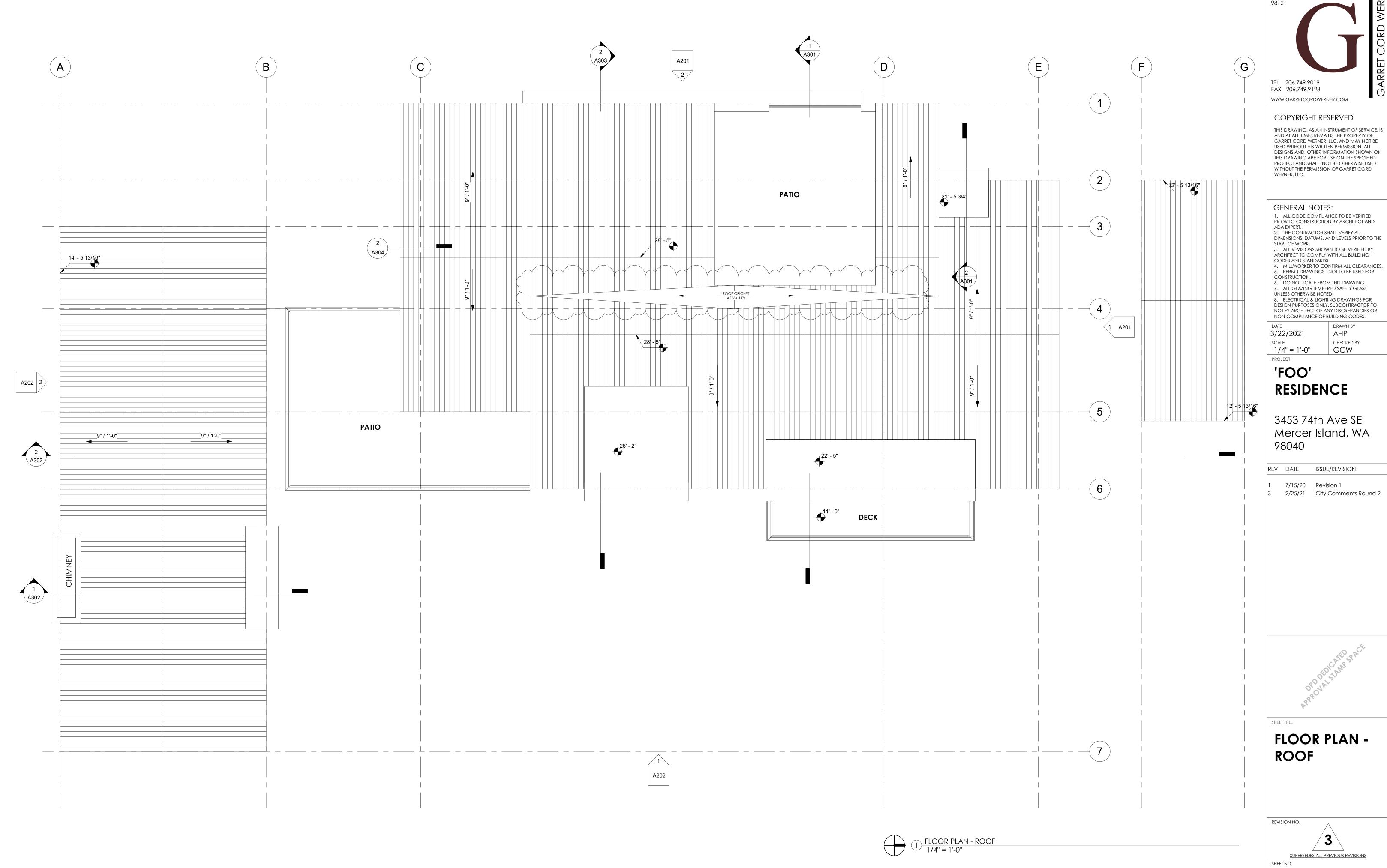
MANUFACTURERS INSTRUCTIONS.



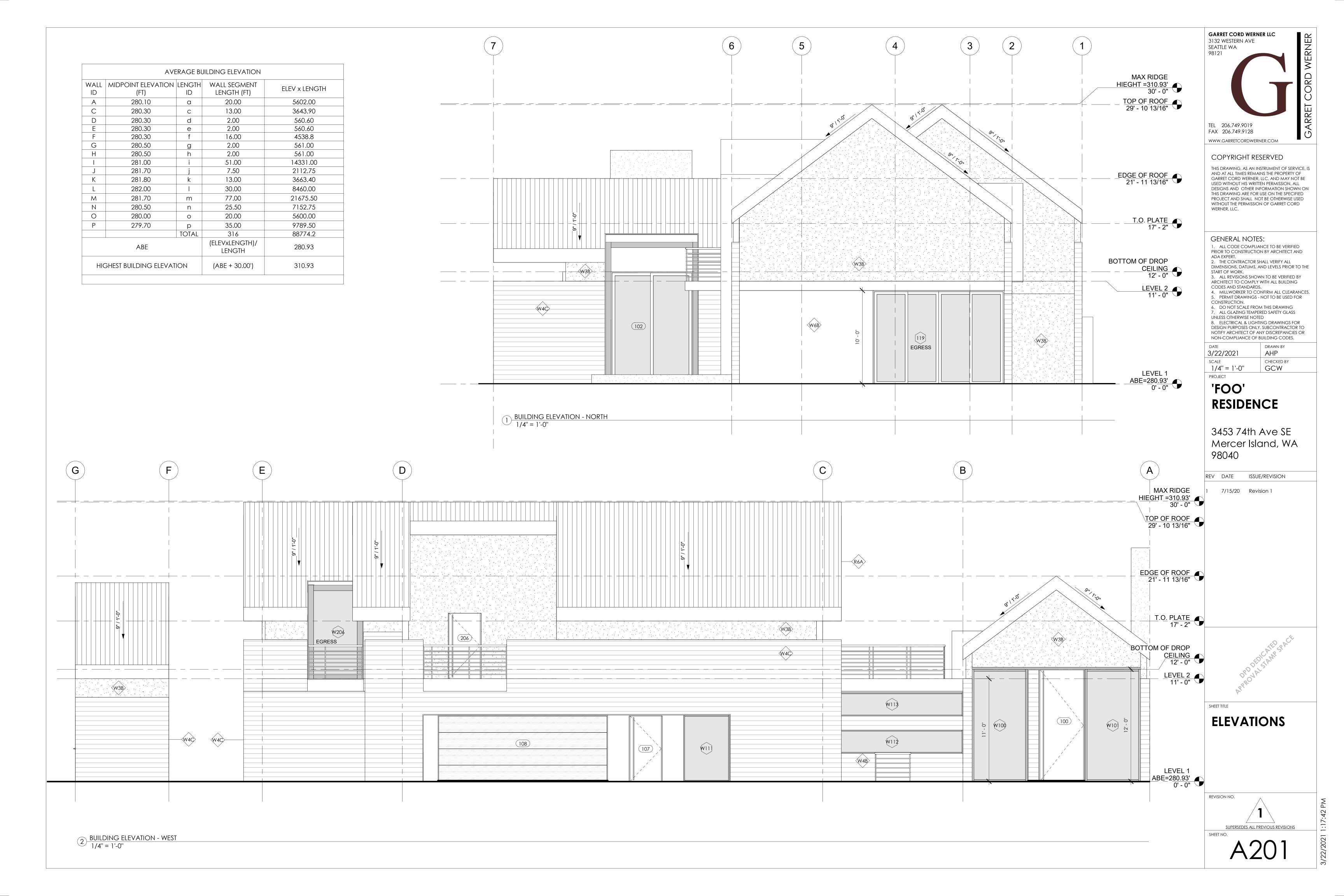
SUPERSEDES ALL PREVIOUS REVISIONS

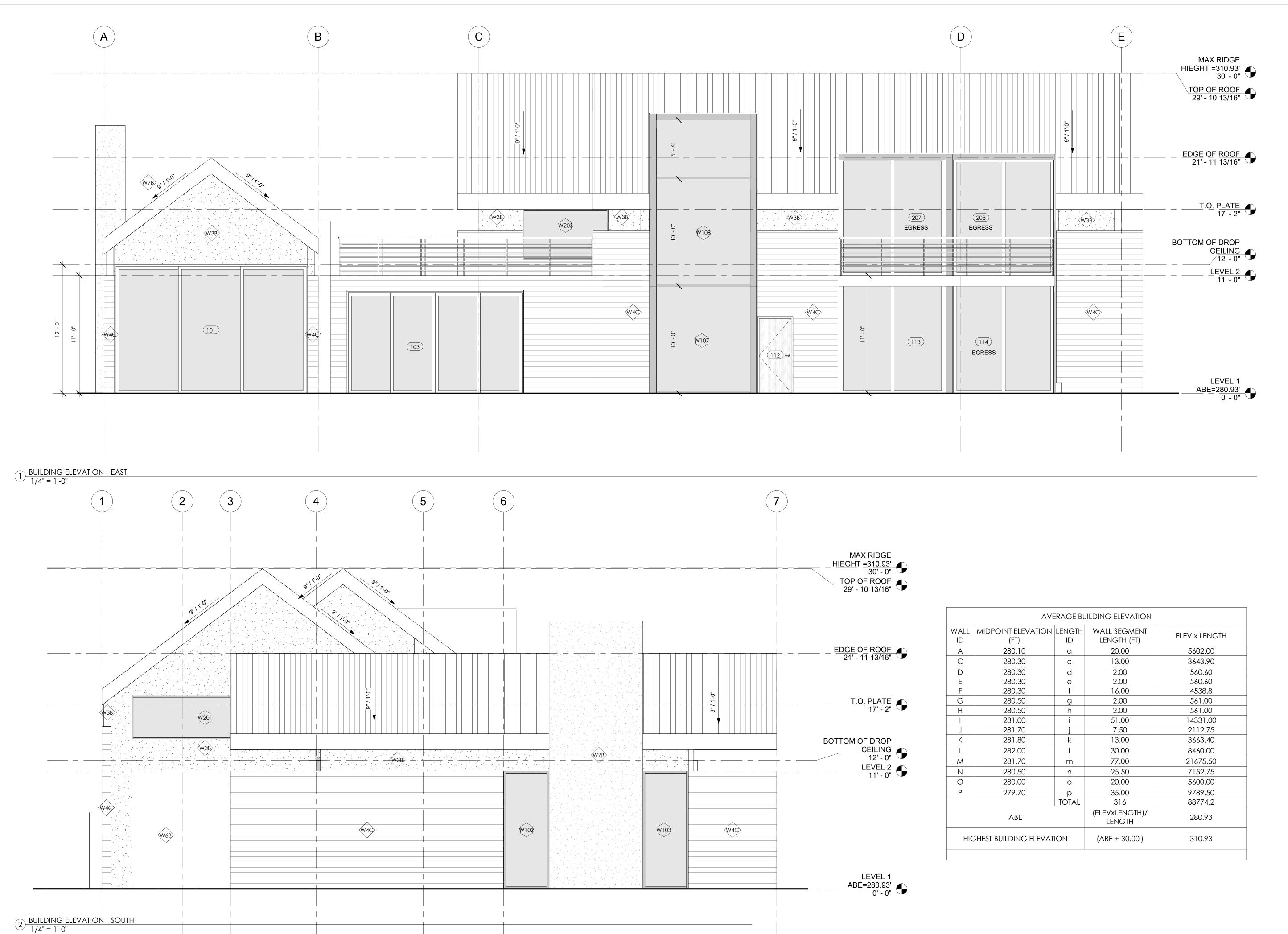


/22/2021 1:17:39 PM



GARRET CORD WERNER LLC 3132 WESTERN AVE SEATTLE WA





TEL 206.749.9019
FAX 206.749.9128

WWW.GARRETCORDWERNER LLC

3132 WESTERN AVE
SEATTLE WA
98121

A CONTROL OF THE CONTROL OF TH

COPYRIGHT RESERVED

THIS DRAWING, AS AN INSTRUMENT OF SERVICE, IS AND AT ALL TIMES REMAINS THE PROPERTY OF GARRET CORD WERNER, LLC. AND MAY NOT BE USED WITHOUT HIS WRITTEN PERMISSION. ALL DESIGNS AND OTHER INFORMATION SHOWN ON THIS DRAWING ARE FOR USE ON THE SPECIFIED PROJECT AND SHALL NOT BE OTHERWISE USED WITHOUT THE PERMISSION OF GARRET CORD WERNER, LLC.

GENERAL NOTES:

 ALL CODE COMPLIANCE TO BE VERIFIED PRIOR TO CONSTRUCTION BY ARCHITECT AND ADA EXPERT.
 THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, DATUMS, AND LEVELS PRIOR TO THE

START OF WORK.

3. ALL REVISIONS SHOWN TO BE VERIFIED BY ARCHITECT TO COMPLY WITH ALL BUILDING

ARCHITECT TO COMPLY WITH ALL BUILDING CODES AND STANDARDS.

4. MILLWORKER TO CONFIRM ALL CLEARANCES.

5. PERMIT DRAWINGS - NOT TO BE USED FOR

CONSTRUCTION.
6. DO NOT SCALE FROM THIS DRAWING
7. ALL GLAZING TEMPERED SAFETY GLASS
UNLESS OTHERWISE NOTED
8. ELECTRICAL & LIGHTING DRAWINGS FOR

8. ELECTRICAL & LIGHTING DRAWINGS FOR DESIGN PURPOSES ONLY, SUBCONTRACTOR TO NOTIFY ARCHITECT OF ANY DISCREPANCIES OR NON-COMPLIANCE OF BUILDING CODES.

| 3/22/2021 | AHP |
|----------------|------------|
| SCALE | CHECKED BY |
| 1/4'' = 1'-0'' | GCW |
| PROJECT | |

'FOO' RESIDENCE

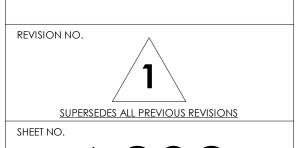
3453 74th Ave SE Mercer Island, WA 98040

REV DATE ISSUE/REVISION

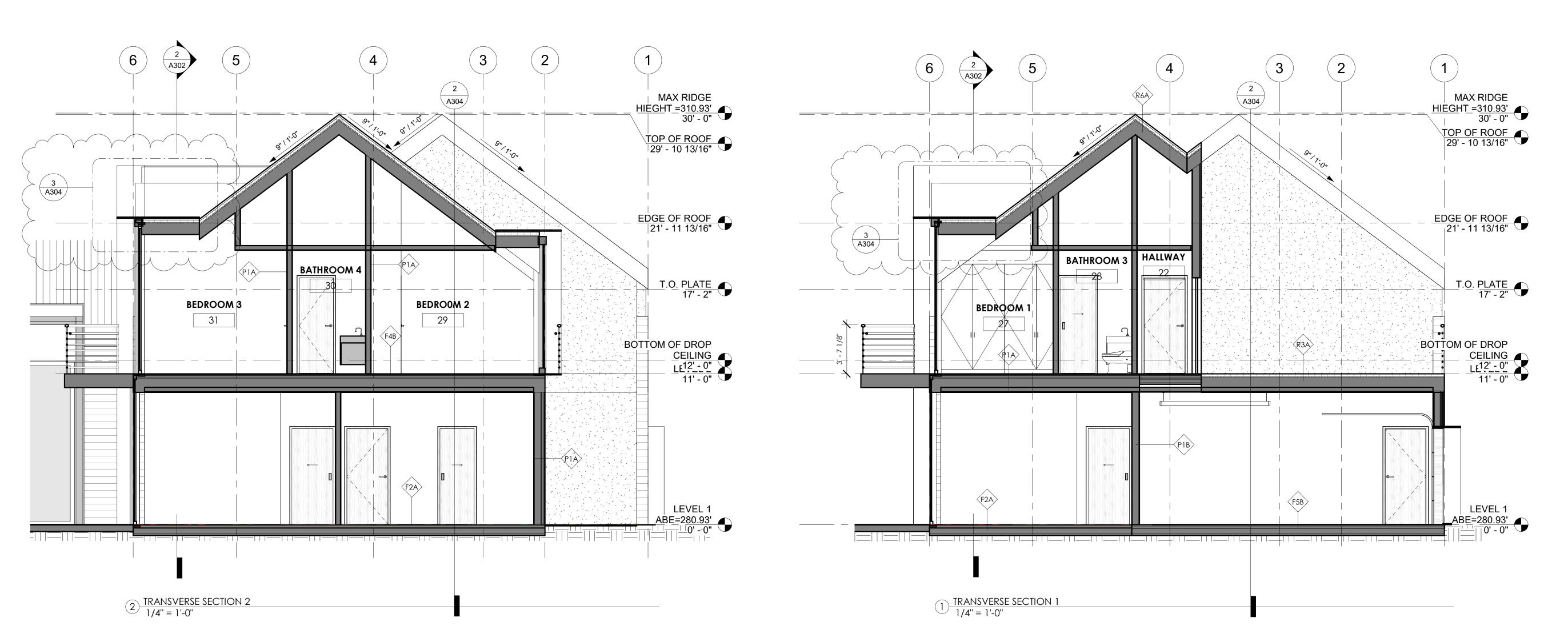
7/15/20 Revision 1

DPD DEDICATED SPACE

ELEVATIONS



A202



GARRET CORD WERNER LLC
3132 WESTERN AVE
SEATTLE WA
98121

TEL 206.749.9019
FAX 206.749.9128

WWW.GARRETCORDWERNER.COM

COPYRIGHT RESERVED

THIS DRAWING, AS AN INSTRUMENT OF SERVICE, IS AND AT ALL TIMES REMAINS THE PROPERTY OF GARRET CORD WERNER, LLC. AND MAY NOT BE USED WITHOUT HIS WRITTEN PERMISSION. ALL DESIGNS AND OTHER INFORMATION SHOWN ON THIS DRAWING ARE FOR USE ON THE SPECIFIED PROJECT AND SHALL NOT BE OTHERWISE USED WITHOUT THE PERMISSION OF GARRET CORD WERNER, LLC.

GENERAL NOTES:

ALL CODE COMPLIANCE TO BE VERIFIED
PRIOR TO CONSTRUCTION BY ARCHITECT AND
ADA EXPERT.

2. THE CONTRACTOR SHALL VERIFY ALL
DIMENSIONS, DATUMS, AND LEVELS PRIOR TO THE
START OF WORK.
3. ALL REVISIONS SHOWN TO BE VERIFIED BY
ARCHITECT TO COMPLY WITH ALL BUILDING

ARCHITECT TO COMPLY WITH ALL BUILDING CODES AND STANDARDS.
4. MILLWORKER TO CONFIRM ALL CLEARANCES.
5. PERMIT DRAWINGS - NOT TO BE USED FOR

CONSTRUCTION.

6. DO NOT SCALE FROM THIS DRAWING

7. ALL GLAZING TEMPERED SAFETY GLASS
UNLESS OTHERWISE NOTED

8. ELECTRICAL & LIGHTING DRAWINGS FOR
DESIGN PURPOSES ONLY. SUBCONTRACTOR TO

8. ELECTRICAL & LIGHTING DRAWINGS FOR DESIGN PURPOSES ONLY. SUBCONTRACTOR TO NOTIFY ARCHITECT OF ANY DISCREPANCIES OR NON-COMPLIANCE OF BUILDING CODES.

DATE DRAWN BY

3/22/2021 AHP

| 3/22/2021 | AHP |
|----------------|------------|
| SCALE | CHECKED BY |
| 1/4'' = 1'-0'' | GCW |
| PPO IECT | |

'FOO' RESIDENCE

3453 74th Ave SE Mercer Island, WA 98040

REV DATE ISSUE/REVISION

7/15/20 Revision 1

3 2/25/21 City Comments Round 2



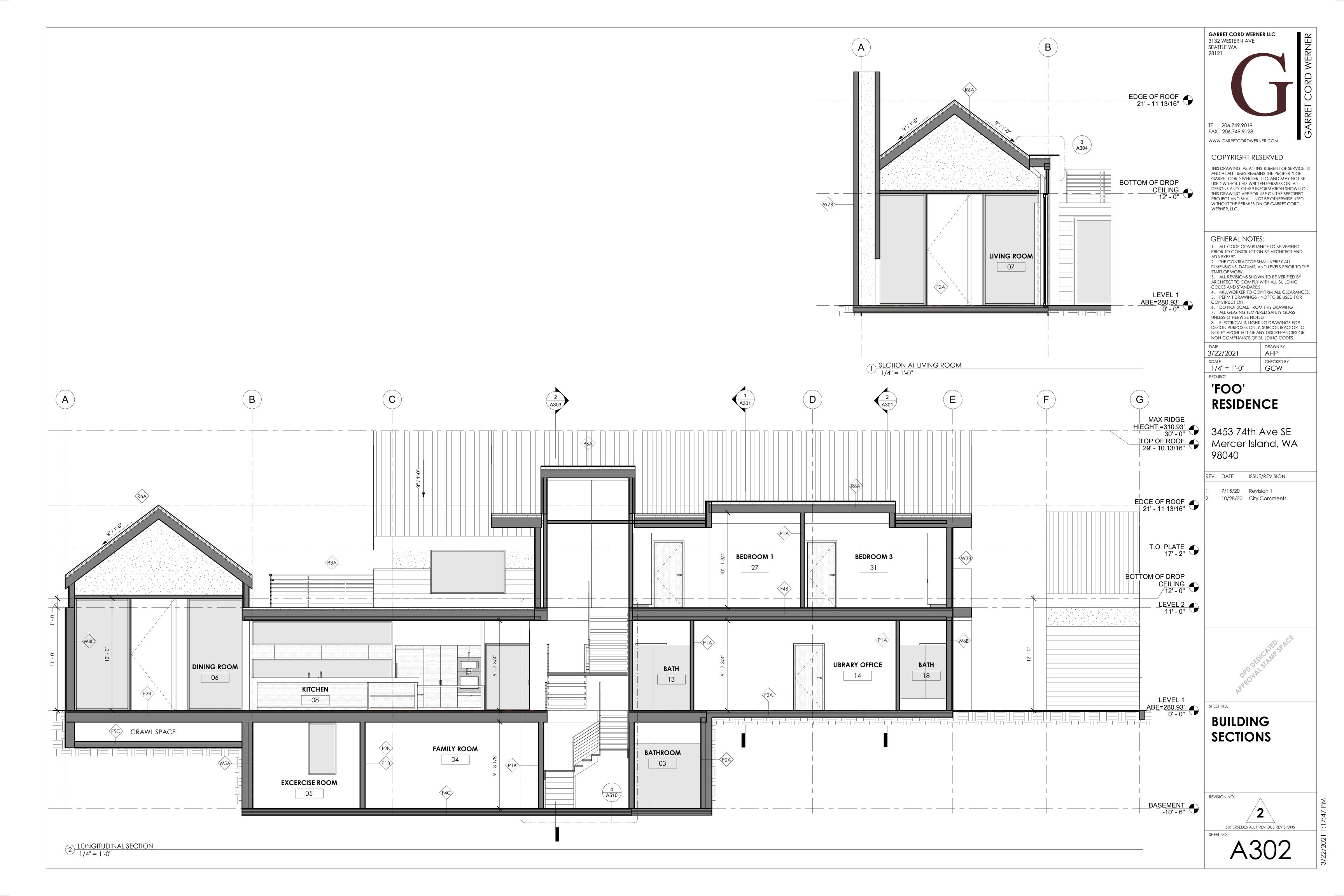
BUILDING

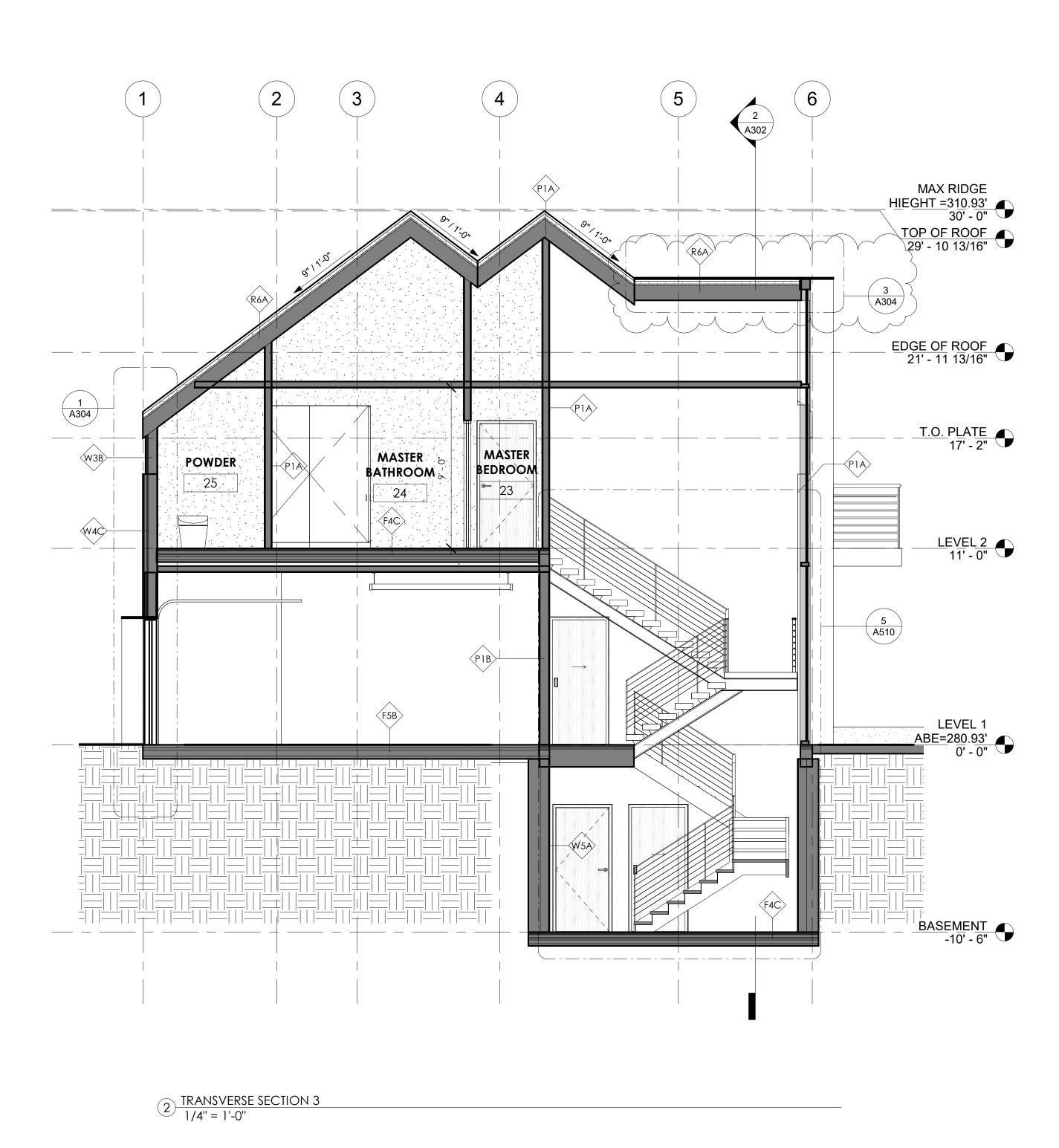
SECTIONS



SHEET NO.

3/22/2021 1:17:45 PM





GARRET CORD WERNER LLC
3132 WESTERN AVE
SEATTLE WA
98121

TEL 206.749.9019
FAX 206.749.9128

WWW.GARRETCORDWERNER.COM

COPYRIGHT RESERVED

THIS DRAWING, AS AN INSTRUMENT OF SERVICE, IS AND AT ALL TIMES REMAINS THE PROPERTY OF GARRET CORD WERNER, LLC. AND MAY NOT BE USED WITHOUT HIS WRITTEN PERMISSION. ALL DESIGNS AND OTHER INFORMATION SHOWN ON THIS DRAWING ARE FOR USE ON THE SPECIFIED PROJECT AND SHALL NOT BE OTHERWISE USED WITHOUT THE PERMISSION OF GARRET CORD WERNER, LLC.

GENERAL NOTES:

ALL CODE COMPLIANCE TO BE VERIFIED
PRIOR TO CONSTRUCTION BY ARCHITECT AND
ADA EXPERT.

2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, DATUMS, AND LEVELS PRIOR TO THE START OF WORK.

3. ALL REVISIONS SHOWN TO BE VERIFIED BY ARCHITECT TO COMPLY WITH ALL BUILDING

CODES AND STANDARDS.

4. MILLWORKER TO CONFIRM ALL CLEARANCES.

5. PERMIT DRAWINGS - NOT TO BE USED FOR CONSTRUCTION.

6. DO NOT SCALE FROM THIS DRAWING
7. ALL GLAZING TEMPERED SAFETY GLASS
UNLESS OTHERWISE NOTED
8. ELECTRICAL & LIGHTING DRAWINGS FOR
DESIGN PURPOSES ONLY, SUBCONTRACTOR TO

8. ELECTRICAL & LIGHTING DRAWINGS FOR DESIGN PURPOSES ONLY. SUBCONTRACTOR TO NOTIFY ARCHITECT OF ANY DISCREPANCIES OR NON-COMPLIANCE OF BUILDING CODES.

DATE DRAWN BY
3/22/2021 AP

| 3/22/2021 | AP |
|----------------|------------|
| SCALE | CHECKED BY |
| 1/4'' = 1'-0'' | GCW |

PROJECT

'FOO' RESIDENCE

3453 74th Ave SE Mercer Island, WA 98040

REV DATE ISSUE/REVISION

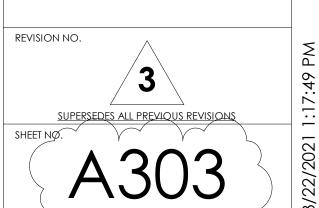
10/28/20 City Comments

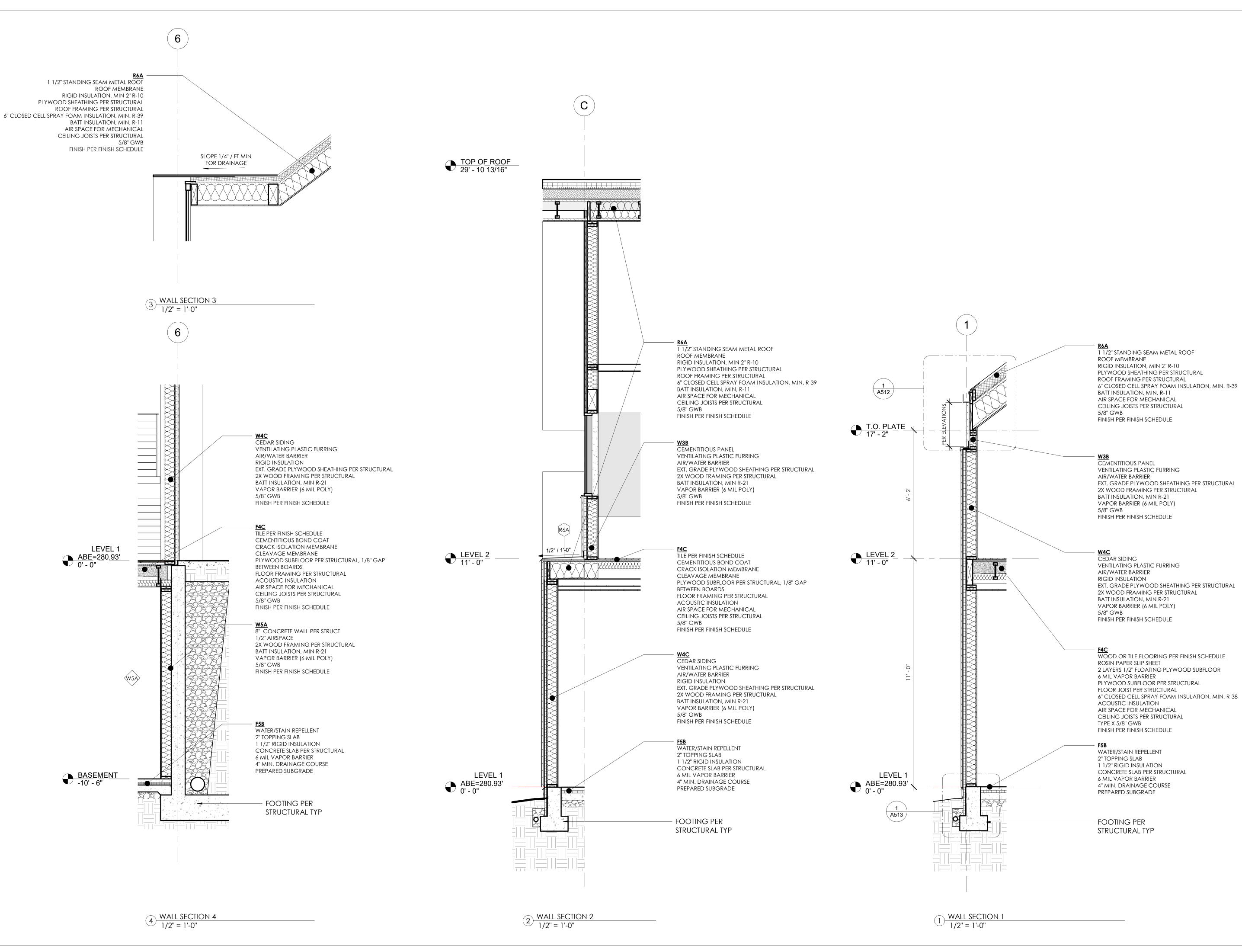
2 10/28/20 City Comments 2 2/25/21 City Comments Round 2

APPROVALSTAND SPACE

SHEET TITLE

BUILDING SECTIONS





TEL 206.749.9019
FAX 206.749.9128

WWW.GARRETCORD WERNER LLC

3132 WESTERN AVE
SEATTLE WA
98121

TEL 206.749.9019
FAX 206.749.9128

COPYRIGHT RESERVED

THIS DRAWING, AS AN INSTRUMENT OF SERVICE, IS AND AT ALL TIMES REMAINS THE PROPERTY OF GARRET CORD WERNER, LLC. AND MAY NOT BE USED WITHOUT HIS WRITTEN PERMISSION. ALL DESIGNS AND OTHER INFORMATION SHOWN ON THIS DRAWING ARE FOR USE ON THE SPECIFIED PROJECT AND SHALL NOT BE OTHERWISE USED WITHOUT THE PERMISSION OF GARRET CORD WERNER LLC.

GENERAL NOTES:

ALL CODE COMPLIANCE TO BE VERIFIED
PRIOR TO CONSTRUCTION BY ARCHITECT AND
ADA EXPERT

2. THE CONTRACTOR SHALL VERIFY ALL
DIMENSIONS, DATUMS, AND LEVELS PRIOR TO THE
START OF WORK.
3. ALL PEVISIONS SHOWN TO BE VERIFIED BY

3. ALL REVISIONS SHOWN TO BE VERIFIED BY ARCHITECT TO COMPLY WITH ALL BUILDING CODES AND STANDARDS.

CODES AND STANDARDS.

4. MILLWORKER TO CONFIRM ALL CLEARANCES.

5. PERMIT DRAWINGS - NOT TO BE USED FOR CONSTRUCTION.

6. DO NOT SCALE FROM THIS DRAWING
7. ALL GLAZING TEMPERED SAFETY GLASS
UNLESS OTHERWISE NOTED
8. FLECTRICAL & LIGHTING DRAWINGS FOR

8. ELECTRICAL & LIGHTING DRAWINGS FOR DESIGN PURPOSES ONLY, SUBCONTRACTOR TO NOTIFY ARCHITECT OF ANY DISCREPANCIES OR NON-COMPLIANCE OF BUILDING CODES.

| DATE | DRAWN BY |
|----------------|------------|
| 3/22/2021 | AHP |
| SCALE | CHECKED BY |
| 1/2'' = 1'-0'' | GCW |

'FOO' RESIDENCE

PROJECT

3453 74th Ave SE Mercer Island, WA 98040

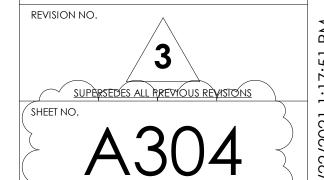
REV DATE ISSUE/REVISION

2/25/21 City Comments Round 2



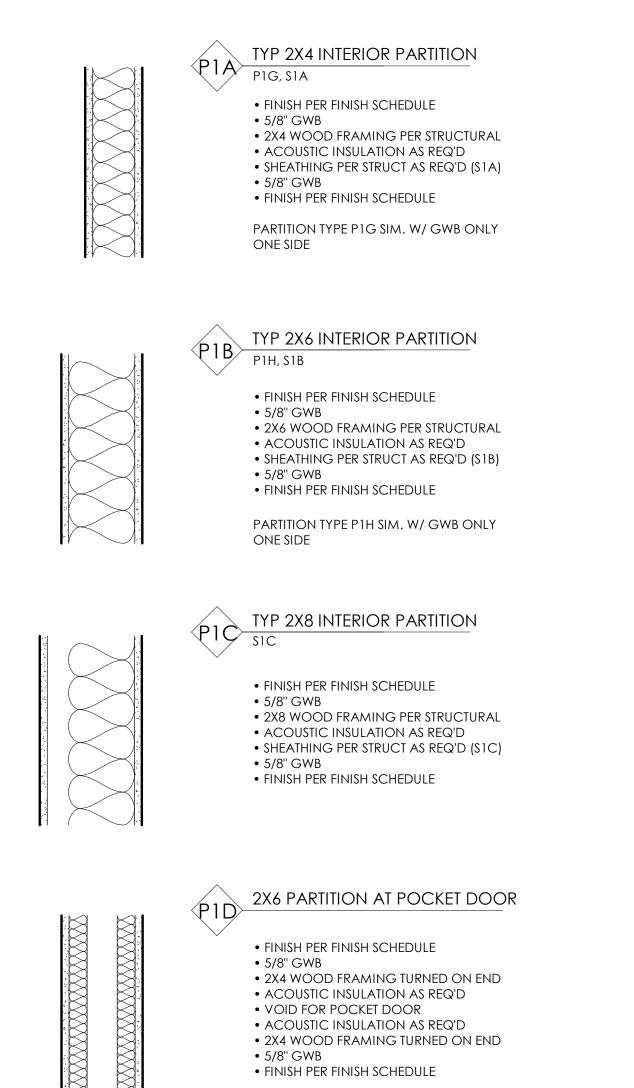
WALL SECTIONS

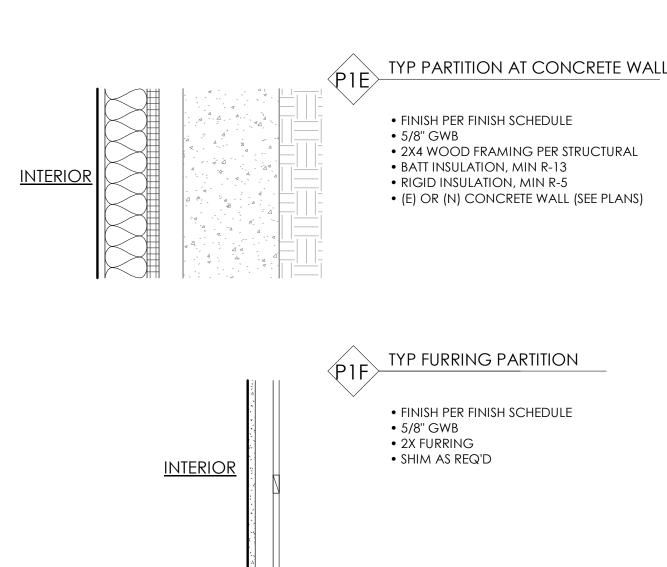
SHEET TITLE

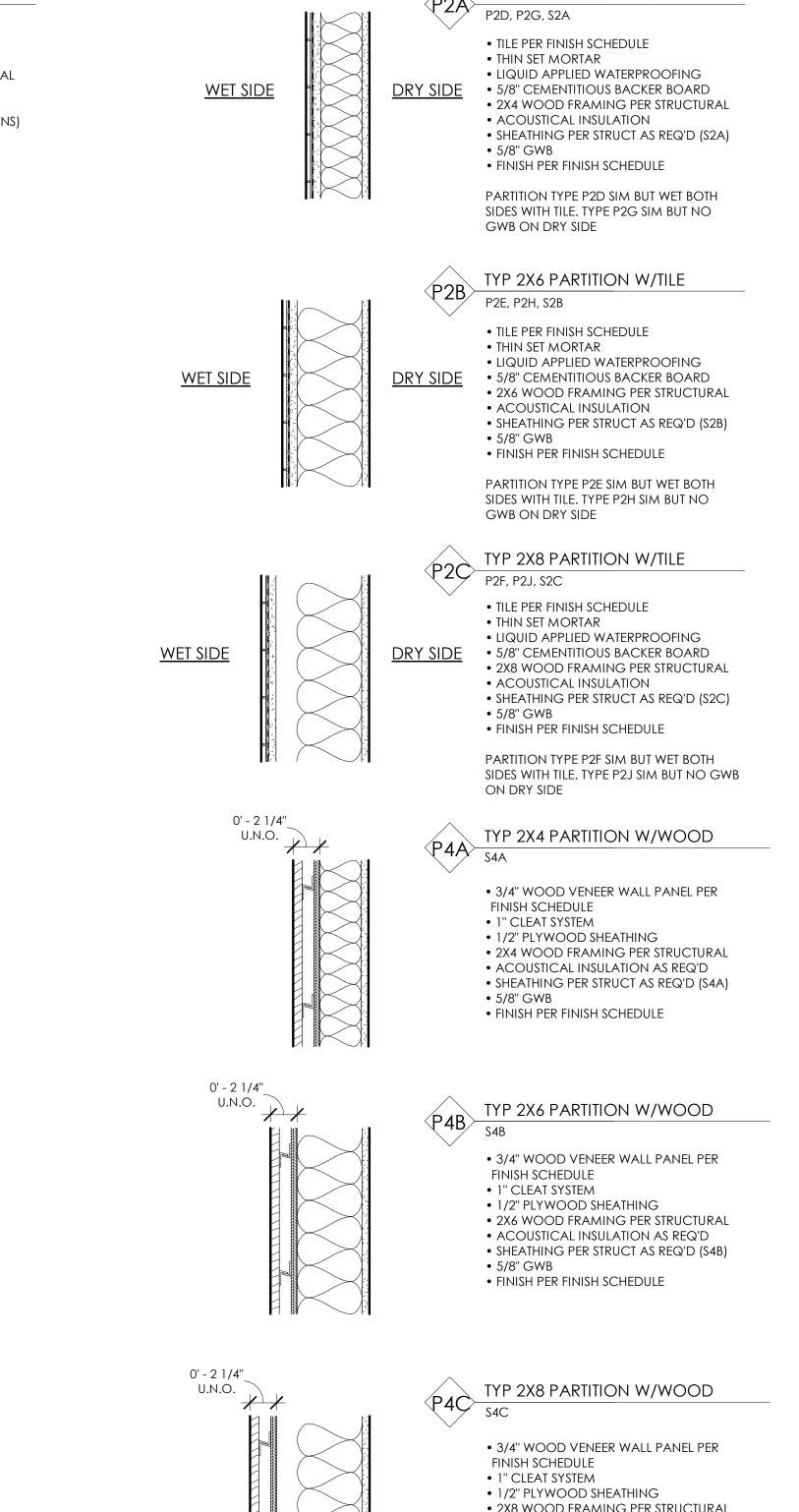


WALL ASSEMBLY AND PARTITION NOTES

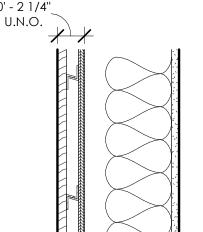
- 1. REPLACE 5/8" GWB WITH 5/8" TYPE 'X' GYPSUM BOARD FOR 1 HOUR RATED WALLS WHERE INDICATED ON PLANS.
- 2. REPLACE 5/8" GWB WITH 5/8" WR GWB IN WET LOCATIONS.
- 3. ADD PLYWOOD SHEATHING PER STRUCTURAL AT SHEAR WALL LOCATIONS.
- 4. AT LOCATIONS WHERE NEW WATERPROOFING IS INSTALLED ADJACENT TO EXISTING WATERPROOFING, GC TO VERIFY COMPATIBILITY.
- 5. ALL TILE WALLS TO COMPLY WITH APPROPRIATE METHOD LISTED IN THE TCNA HANDBOOK FOR CERAMIC, GLASS, AND STONE TILE INSTALLATION.











 2X8 WOOD FRAMING PER STRUCTURAL ACOUSTICAL INSULATION AS REQ'D SHEATHING PER STRUCT AS REQ'D (S4C) 5/8" GWB • FINISH PER FINISH SCHEDULE



CONCRETE WALL

• 4" ARCHITECTURAL FINISH CONCRETE PER STRUCT.



• 6" ARCHITECTURAL FINISH CONCRETE WALL PER STRUCT.



CONCRETE WALL

7. ALL GLAZING TEMPERED SAFETY GLASS • 8" ARCHITECTURAL FINISH CONCRETE UNLESS OTHERWISE NOTED WALL PER STRUCT.

8. ELECTRICAL & LIGHTING DRAWINGS FOR DESIGN PURPOSES ONLY. SUBCONTRACTOR TO NOTIFY ARCHITECT OF ANY DISCREPANCIES OR NON-COMPLIANCE OF BUILDING CODES. DRAWN BY 3/22/2021 AHP SCALE CHECKED BY 1 1/2" = 1'-0" GCW

GARRET CORD WERNER LLC

3132 WESTERN AVE

TEL 206.749.9019

FAX 206.749.9128

WWW.GARRETCORDWERNER.COM

COPYRIGHT RESERVED

THIS DRAWING, AS AN INSTRUMENT OF SERVICE, IS AND AT ALL TIMES REMAINS THE PROPERTY OF GARRET CORD WERNER, LLC. AND MAY NOT BE USED WITHOUT HIS WRITTEN PERMISSION. ALL

DESIGNS AND OTHER INFORMATION SHOWN ON THIS DRAWING ARE FOR USE ON THE SPECIFIED

PROJECT AND SHALL NOT BE OTHERWISE USED

WITHOUT THE PERMISSION OF GARRET CORD

ALL CODE COMPLIANCE TO BE VERIFIED
PRIOR TO CONSTRUCTION BY ARCHITECT AND

DIMENSIONS, DATUMS, AND LEVELS PRIOR TO THE

4. MILLWORKER TO CONFIRM ALL CLEARANCES.

5. PERMIT DRAWINGS - NOT TO BE USED FOR

3. ALL REVISIONS SHOWN TO BE VERIFIED BY

ARCHITECT TO COMPLY WITH ALL BUILDING

6. DO NOT SCALE FROM THIS DRAWING

2. THE CONTRACTOR SHALL VERIFY ALL

GENERAL NOTES:

CODES AND STANDARDS.

START OF WORK.

CONSTRUCTION.

SEATTLE WA

PROJECT **'FOO' RESIDENCE**

3453 74th Ave SE Mercer Island, WA 98040

REV DATE ISSUE/REVISION

TYPICAL ASSEMBLIES -**INTERIOR**

SHEET TITLE



WALL ASSEMBLY AND PARTITION NOTES 0' - 2 5/8"\ 1-HR WOOD EXTERIOR WALL METAL PANEL EXTERIOR WALL 0' - 1 1/2" 1. REPLACE 5/8" GWB WITH 5/8" TYPE 'X' GYPSUM BOARD FOR 1 HOUR RATED // **UL ASSEMBLY U303** WALLS WHERE INDICATED ON PLANS. ALUMINUM COMPOSITE PANEL SYSTEM • 3/8" DRAINAGE MAT CEDAR SIDING 2. REPLACE 5/8" GWB WITH 5/8" WR GWB IN WET LOCATIONS. • AIR/WATER BARRIER VENTILATING PLASTIC FURRING **EXTERIOR** INTERIOR PLYWOOD SHEATHING PER STRUCTURAL AIR/WATER BARRIER 3. ADD PLYWOOD SHEATHING PER STRUCTURAL AT SHEAR WALL LOCATIONS. 2X4 WOOD FRAMING PER STRUCTURAL **EXTERIOR** • 5/8" GLASS MAT GYPSUM SHEATHING • BATT INSULATION, MIN R-13 • EXT. GRADE PLYWOOD SHEATHING PER VAPOR BARRIER (6 MIL POLY) 4. AT LOCATIONS WHERE NEW WATERPROOFING IS INSTALLED ADJACENT TO • 5/8" GWB • 2X6 WOOD FRAMING PER STRUCTURAL EXISTING WATERPROOFING, GC TO VERIFY COMPATIBILITY. • FINISH PER FINISH SCHEDULE • BATT INSULATION, MIN R-21 VAPOR BARRIER (6 MIL POLY) • 5/8" GWB 5. ALL TILE WALLS TO COMPLY WITH APPROPRIATE METHOD LISTED IN THE TCNA • FINISH PER FINISH SCHEDULE HANDBOOK FOR CERAMIC, GLASS, AND STONE TILE INSTALLATION. 0' - 2 5/8"\ 0' - 1 1/2" STONE EXTERIOR WALL METAL PANEL EXTERIOR WALL CONCRETE EXTERIOR WALL ALUMINUM COMPOSITE PANEL SYSTEM • STONE TILE PANEL • 8" CONCRETE WALL PER STRUCT • 3/8" DRAINAGE MAT • 1/8" THINSET 1/2" AIRSPACE AIR/WATER BARRIER LIQUID APPLIED MEMBRANE • 2X6 WOOD FRAMING PER STRUCTURAL **EXTERIOR INTERIOR** PLYWOOD SHEATHING PER STRUCTURAL **EXTERIOR** 1/2" TILE BACKER INTERIOR **EXTERIOR** INTERIOR BATT INSULATION, MIN R-21 • 2X6 WOOD FRAMING PER STRUCTURAL • 3/8" DRAINAGE MAT VAPOR BARRIER (6 MIL POLY) • BATT INSULATION, MIN R-21 AIR/WATER BARRIER • 5/8" GWB • VAPOR BARRIER (6 MIL POLY) • PLYWOOD SHEATHING PER STRUCTURAL • FINISH PER FINISH SCHEDULE • 5/8" GWB • 2X6 WOOD FRAMING PER STRUCTURAL • FINISH PER FINISH SCHEDULE • BATT INSULATION, MIN R-21 • VAPOR BARRIER (6 MIL POLY) • 5/8" GWB • FINISH PER FINISH SCHEDULE 0' - 2 5/8"\ 0' - 1 1/2" STONE EXTERIOR WALL CONCRETE EXTERIOR WALL METAL PANEL EXTERIOR WALL ALUMINUM COMPOSITE PANEL SYSTEM • STONE TILE PANEL • 12" ARCHITECTURALLY EXPOSED • 3/8" DRAINAGE MAT 1/8" THINSET CONCRETE WALL PER STRUCT. FINISH PER • AIR/WATER BARRIER • LIQUID APPLIED MEMBRANE SCHEDULE • PLYWOOD SHEATHING PER STRUCTURAL **EXTERIOR EXTERIOR** 1/2" TILE BACKER **EXTERIOR** 1/2" AIRSPACE INTERIOR • 2X8 WOOD FRAMING PER STRUCTURAL • 3/8" DRAINAGE MAT • 2X6 WOOD FRAMING PER STRUCTURAL • BATT INSULATION, MIN R-21 • AIR/WATER BARRIER • BATT INSULATION, MIN R-21 VAPOR BARRIER (6 MIL POLY) • PLYWOOD SHEATHING PER STRUCTURAL VAPOR BARRIER (6 MIL POLY) • 2X8 WOOD FRAMING PER STRUCTURAL 5/8" GWB • FINISH PER FINISH SCHEDULE • BATT INSULATION, MIN R-21 FINISH PER FINISH SCHEDULE VAPOR BARRIER (6 MIL POLY) • 5/8" GWB • FINISH PER FINISH SCHEDULE 0' - 1 1/2" CONCRETE EXTERIOR WALL 2-HR CONCRETE RAINSCREEN WALL WOOD EXTERIOR WALL CONCRETE SITE WALL UL ASSEMBLY U308 • 8" ARCHITECTURALLY EXPOSED • 4" ARCHITECTURAL FINISH CONCRETE • CEDAR SIDING CONCRETE WALL PER STRUCT. FINISH PER WALL PER STRUCT. VENTILATING PLASTIC FURRING • 1" CONCRETE RAINSCREEN PANEL SCHEDULE AIR/WATER BARRIER • 1/2" AIR SPACE **EXTERIOR** 1/2" AIRSPACE **EXTERIOR INTERIOR** • EXT. GRADE PLYWOOD SHEATHING PER • 2" RIGID INSULATION, MIN R-10 2X4 WOOD FRAMING PER STRUCTURAL **EXTERIOR** STRUCTURAL AIR/WATER BARRIER SPRAY-APPLIED CLOSED CELL • 2X4 WOOD FRAMING PER STRUCTURAL • 5/8" GLASS MAT TYPE X GYPSUM INSULATION, MIN R-21 • BATT INSULATION, MIN R-13 SHEATHING VAPOR BARRIER (6 MIL POLY) VAPOR BARRIER (6 MIL POLY) • 5/8" TYPE X GWB • 5/8" GWB • 2X4 WOOD FRAMING PER STRUCTURAL • FINISH PER FINISH SCHEDULE • FINISH PER FINISH SCHEDULE • BATT INSULATION, MIN R-13 • VAPOR BARRIER (6 MIL POLY) • (2) LAYERS TYPE X 5/8" GWB • FINISH PER FINISH SCHEDULE CONCRETE EXTERIOR WALL 0' - 1 1/2"\ WOOD EXTERIOR WALL CONCRETE SITE WALL 12" ARCHITECTURALLY EXPOSED CONCRETE RAINSCREEN WALL CONCRETE WALL PER STRUCT. FINISH PER • CEDAR SIDING • 6" ARCHITECTURAL FINISH CONCRETE SCHEDULE • VENTILATING PLASTIC FURRING WALL PER STRUCT. **EXTERIOR** 1/2" AIRSPACE AIR/WATER BARRIER • 2X4 WOOD FRAMING PER STRUCTURAL **EXTERIOR** • EXT. GRADE PLYWOOD SHEATHING PER • 1" CONCRETE RAINSCREEN PANEL • SPRAY-APPLIED CLOSED CELL INSULATION, MIN R-21 1/2" AIR SPACE STRUCTURAL • 2" RIGID INSULATION, MIN R-10 • 2X6 WOOD FRAMING PER STRUCTURAL • VAPOR BARRIER (6 MIL POLY) **EXTERIOR** AIR/WATER BARRIER • BATT INSULATION, MIN R-21 • 5/8" GWB • PLYWOOD SHEATHING PER STRUCTURAL • VAPOR BARRIER (6 MIL POLY) • FINISH PER FINISH SCHEDULE • 2X4 WOOD FRAMING PER STRUCTURAL • FINISH PER FINISH SCHEDULE W7C CONCRETE SITE WALL 0' - 1 1/2" CONCRETE EXTERIOR WALL WOOD EXTERIOR WALL CONCRETE EXTERIOR WALL • 8" ARCHITECTURALLY EXPOSED • CEDAR SIDING • 8" ARCHITECTURAL FINISH CONCRETE CONCRETE WALL PER STRUCT. FINISH PER VENTILATING PLASTIC FURRING WALL PER STRUCT. SCHEDULE AIR/WATER BARRIER <u>EXTERIOR</u> <u>INTERIOR</u> 1/2" AIRSPACE **EXTERIOR** • EXT. GRADE PLYWOOD SHEATHING PER • 2X4 WOOD FRAMING PER STRUCTURAL • 2" RIGID INSULATION, MIN R-10 AT STRUCTURAL • SPRAY-APPLIED CLOSED CELL INSULATION, MIN R-21 BELOW GRADE CONDITIONS • 2X6 WOOD FRAMING PER STRUCTURAL • 8" ARCHITECTURALLY EXPOSED • BATT INSULATION, MIN R-21 • VAPOR BARRIER (6 MIL POLY) CONCRETE WALL PER STRUCT. FINISH PER • VAPOR BARRIER (6 MIL POLY) SCHEDULE • 5/8" GWB VAPOR BARRIER (6 MIL POLY) • FINISH PER FINISH SCHEDULE • 1X4 FURRING STRIPS, SHIM AS REQ'D • 5/8" GWB • FINISH PER FINISH SCHEDULE 0' - 1 1/2" WOOD AT CONCRETE WALL CONCRETE EXTERIOR WALL CONCRETE SITE WALL CEDAR SIDING • 12" ARCHITECTURAL FINISH CONCRETE VENTILATING PLASTIC FURRING WALL PER STRUCT. AIR/WATER BARRIER • 8" ARCHITECTURALLY EXPOSED **EXTERIOR** • EXT. GRADE PLYWOOD SHEATHING PER CONCRETE WALL PER STRUCT. FINISH PER STRUCTURAL SCHEDULE • 8" CONCRETE WALL PER STRUCT. W/EMBEDDED 1X2 P.T. NAILER STRIPS @ <u>EXTERIOR</u> 1/2" AIRSPACE • 2X4 WOOD FRAMING PER STRUCTURAL 24" O.C. • SPRAY-APPLIED CLOSED CELL • 1/2" AIRSPACE INSULATION, MIN R-21 • 2X4 WOOD FRAMING PER STRUCTURAL • 5/8" CEMENTITIOUS BACKER BOARD • SPRAY-APPLIED CLOSED CELL • VAPOR BARRIER (6 MIL POLY) INSULATION, MIN R-21 • LIQUID APPLIED WATERPROOFING

THIN SET MORTAR

• TILE PER FINISH SCHEDULE

• VAPOR BARRIER (6 MIL POLY)

• FINISH PER FINISH SCHEDULE

• 5/8" GWB

NOTE: UPPERMOST NAILER STRIPS TO BE

LOCATED 24" BELOW TOP OF CONCRETE

EXTERIOR

GARRET CORD WERNER LLC 3132 WESTERN AVE SEATTLE WA TEL 206.749.9019 FAX 206.749.9128 WWW.GARRETCORDWERNER.COM

COPYRIGHT RESERVED

THIS DRAWING, AS AN INSTRUMENT OF SERVICE, IS AND AT ALL TIMES REMAINS THE PROPERTY OF GARRET CORD WERNER, LLC. AND MAY NOT BE USED WITHOUT HIS WRITTEN PERMISSION. ALL DESIGNS AND OTHER INFORMATION SHOWN ON THIS DRAWING ARE FOR USE ON THE SPECIFIED PROJECT AND SHALL NOT BE OTHERWISE USED WITHOUT THE PERMISSION OF GARRET CORD WERNER, LLC.

GENERAL NOTES:

ALL CODE COMPLIANCE TO BE VERIFIED
PRIOR TO CONSTRUCTION BY ARCHITECT AND

2. THE CONTRACTOR SHALL VERIFY ALL

DIMENSIONS, DATUMS, AND LEVELS PRIOR TO THE START OF WORK. 3. ALL REVISIONS SHOWN TO BE VERIFIED BY ARCHITECT TO COMPLY WITH ALL BUILDING

CODES AND STANDARDS. 4. MILLWORKER TO CONFIRM ALL CLEARANCES 5. PERMIT DRAWINGS - NOT TO BE USED FOR CONSTRUCTION.

6. DO NOT SCALE FROM THIS DRAWING 7. ALL GLAZING TEMPERED SAFETY GLASS UNLESS OTHERWISE NOTED 8. ELECTRICAL & LIGHTING DRAWINGS FOR

DESIGN PURPOSES ONLY, SUBCONTRACTOR TO NON-COMPLIANCE OF BUILDING CODES.

NOTIFY ARCHITECT OF ANY DISCREPANCIES OR DRAWN BY

3/22/2021 AHP SCALE CHECKED BY 1 1/2" = 1'-0" GCW

'FOO' RESIDENCE

PROJECT

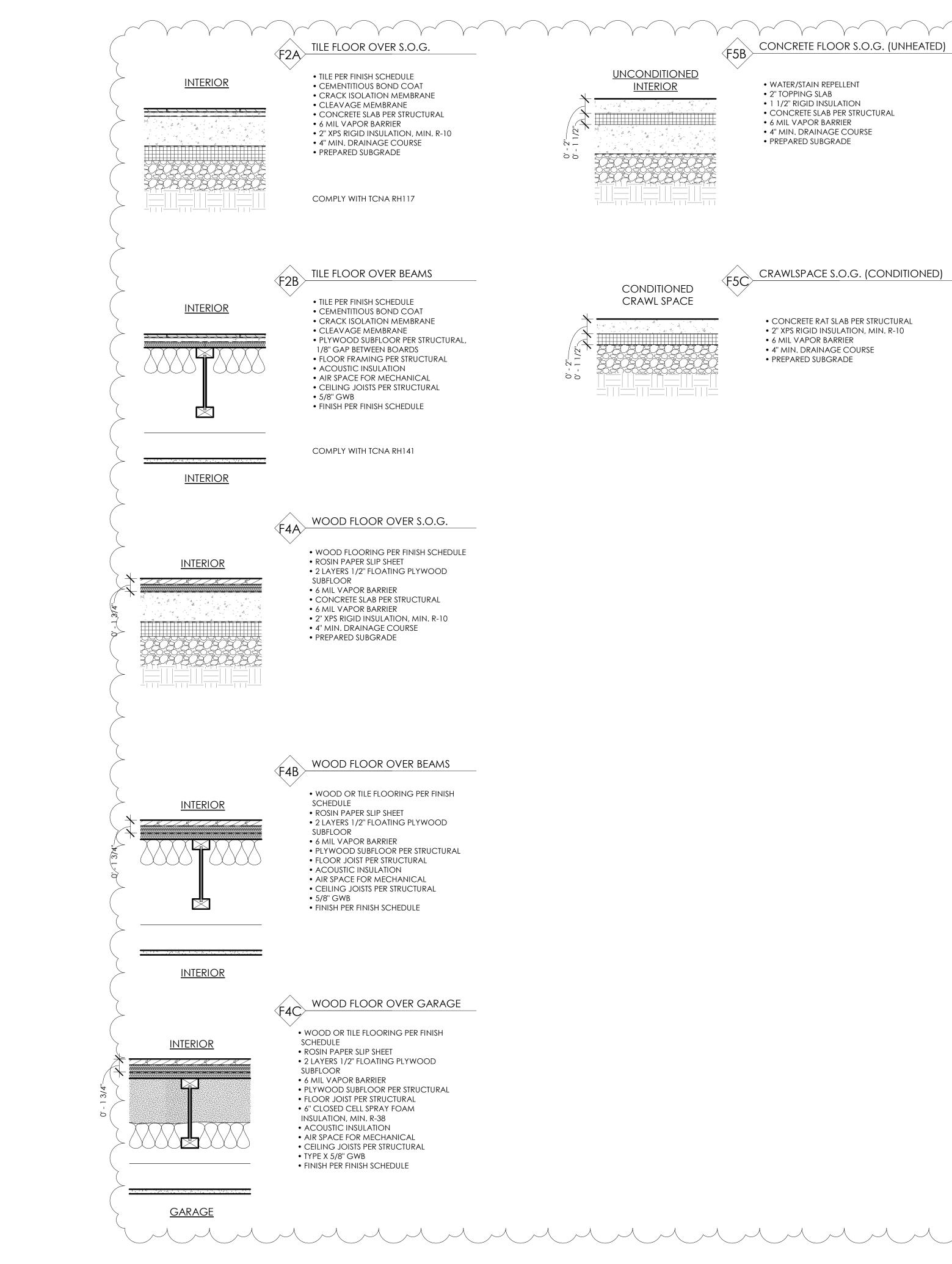
3453 74th Ave SE Mercer Island, WA 98040

REV DATE ISSUE/REVISION

TYPICAL ASSEMBLIES -EXTERIOR

REVISION NO.

SUPERSEDES ALL PREVIOUS REVISIONS



TEL 206.749.9019 FAX 206.749.9128

GARRET CORD WERNER LLC

3132 WESTERN AVE

SEATTLE WA 98121

COPYRIGHT RESERVED

WWW.GARRETCORDWERNER.COM

THIS DRAWING, AS AN INSTRUMENT OF SERVICE, IS AND AT ALL TIMES REMAINS THE PROPERTY OF GARRET CORD WERNER, LLC. AND MAY NOT BE USED WITHOUT HIS WRITTEN PERMISSION. ALL DESIGNS AND OTHER INFORMATION SHOWN ON THIS DRAWING ARE FOR USE ON THE SPECIFIED PROJECT AND SHALL NOT BE OTHERWISE USED WITHOUT THE PERMISSION OF GARRET CORD WERNER, LLC.

GENERAL NOTES:

ALL CODE COMPLIANCE TO BE VERIFIED
PRIOR TO CONSTRUCTION BY ARCHITECT AND

2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, DATUMS, AND LEVELS PRIOR TO THE START OF WORK. 3. ALL REVISIONS SHOWN TO BE VERIFIED BY

ARCHITECT TO COMPLY WITH ALL BUILDING CODES AND STANDARDS. 4. MILLWORKER TO CONFIRM ALL CLEARANCES.

5. PERMIT DRAWINGS - NOT TO BE USED FOR CONSTRUCTION. 6. DO NOT SCALE FROM THIS DRAWING 7. ALL GLAZING TEMPERED SAFETY GLASS UNLESS OTHERWISE NOTED

8. ELECTRICAL & LIGHTING DRAWINGS FOR DESIGN PURPOSES ONLY. SUBCONTRACTOR TO NOTIFY ARCHITECT OF ANY DISCREPANCIES OR NON-COMPLIANCE OF BUILDING CODES. DRAWN BY

3/22/2021 AHP CHECKED BY 1 1/2" = 1'-0" GCW

PROJECT

'FOO' RESIDENCE

3453 74th Ave SE Mercer Island, WA 98040

REV DATE ISSUE/REVISION

10/28/20 City Comments

2/25/21 City Comments Round 2

TYPICAL ASSEMBLIES -

FLOOR

REVISION NO.



3.2.2.1 Duradek D763: A white-colored, water-based,

liquid adhesive with a shelf life of six months when stored

3.2.2.2 Duradek D811-23-S and Duradek D811-23-W: A

yellow-colored, liquid contact adhesive with a shelf life of

six months when stored at temperatures between 45° and

3.2.2.3 Mapel Ultra Flex 2: A single-component,

polymer-modified thin-set mortar with a shelf life of one

year when stored at 73°F (23°C) and 50 percent relative

3.2.3.1 Plywood: Minimum 5/e-inch-thick (15.9 mm)

exterior-grade with tongue-and-groove edges, complying

with US Department of Commerce Product Standard PS-1

3.2.3.2 USG Durock Cement Board Next Gen: Minimum

nominally 12-inch-thick cement panel, manufactured by

The Duradek Ultra System described in this report

complies with requirements for impact resistance in

Installation of the Duradek Ultra system must be in

accordance with the report holder's published installation

instructions, the applicable code and this report. The report

holder's installation instructions must be available on the

jobsite during application. Installation is limited to

conditions when the weather is dry and the ambient air

temperature is a minimum of 45°F (7.2°C). Materials must

not be applied if precipitation is occurring or expected

Substrates must be structurally sound, clean and dry, and

shall be sloped a minimum of 1/4 inch per foot (2 percent

4.2.1 Plywood: Plywood must be applied to framing in

accordance with the requirements of the applicable

code. All unsupported edges must be blocked. All

penetrations through and terminations of the sheathing

must be protected with metal flashing in accordance with

manufacturer's published installation instructions.

the requirements of the applicable code and the

4.2.2 USG Durock: Where USG Durock is used as a

substrate, it must be installed over a plywood substrate

at temperatures between 45° and 80°F (10° and 26.7°C).

3.2.2 Adhesives:

80°F (10° and 26.7°C).

3.2.3 Substrates:

United States Gypsum Company.

accordance with ASTM D3746.

4.2 Preparation of Substrates:

3.3 Impact Resistance

4.0 INSTALLATION

during application.

4.1 General:

DIVISION: 07 00 00-THERMAL AND MOISTURE

Section: 07 18 13—Pedestrian Traffic Coatings Section: 07 54 00—Thermoplastic Membrane Roofing Section: 07 54 19—Polyvinyl-Chloride Roofing

REPORT HOLDER:

DURADEK U.S. INC.

EVALUATION SUBJECT: DURADEK ULTRA ROOF AND WALKING DECK

MEMBRANE

1.0 EVALUATION SCOPE Compliance with the following codes:

- 2015, 2012 and 2009 International Building Code® (IBC) ■ 2015, 2012 and 2009 International Residential Code®
- Properties evaluated
- Physical properties ■ Wind resistance
- Fire classification Chemical resistance
- Impact resistance 2.0 USES

The Duradek Ultra system is a walking deck and classified (rated) roof covering system for use directly over USG Durock cement board Next Gen and plywood substrates, as described in Section 3.2.3 of this report.

The Duradek Ultra system consists of a membrane and deck adhesive. See Section 4.0 of this report for recognized Duradek configurations and corresponding

component requirements: 3.2 Materials:

calendered polyvinyl chloride (PVC) film laminated to a woven, heat-set polyester fabric. The surface of the PVC film is factory-printed and top-coated with a PVC/acrylic finish. The membrane is produced in a variety of colors and patterns and is available in rolls of various widths and lengths. The membrane weighs approximately 55 ounces per square yard (1864 g/m²) and is nominally 0.060 inch (60 mils (1.5 mm)) thick.

3.0 DESCRIPTION 3.1 General:

3.2.1 Membrane: Duradek Ultra membrane is a

ICC-ES Evaluation Reports are not to be constraid as expresenting institution or any other attributes not specifically addressed, nor are they to be constraid as an endorsement of the subject of the report or a recommendation for its use. There is no warranty by ICC Evaluation Service, LLC, express we implied, as to any finding or other matter in this report, or as is any product covered by the report. Copyright © 2020 ICC Evaluation Service, LLC, All rights reserved.

ESR-2151 | Most Widely Accepted and Trusted

3.2.3.1 and 4.2.1. See Footnote 3 of Table 1 for additional installation details.

4.3 Membrane Installation: The membrane must be adhered to the substrate with either Duradek D763, Duradek D811-23-S or Duradek D811-23-W adhesive. Duradek D763 must be applied to the substrate with either a U-notched trowel having 1/32-inch-deep-by-1/16-inch-wide (0.8 by 1.6 mm) notches spaced 1/32 inch (0.8 mm) apart or a textured roller. The minimum coverage is 1 gallon per 190 square feet (1L/4.66 m²). Duradek D811-23-S and Duradek D811-23-

(1L/1.71 m² to 1L/2.21 m²). The minimum application temperature for both adhesives is 45°F (7.2°C). A minimum 2-inch (51 mm) width of Duradek D811-23-S or Duradek D811-23-W adhesive must be used at the perimeter of the deck and on walls, edges and right-angle corners. Membrane seams must be overlapped a minimum of 3/4 inch (19.1 mm) at edges and ends, and heat-fused 6.0 EVIDENCE SUBMITTED with a hot-air seaming tool. Exposed edges, posts and trim

6.1 Data in accordance with the ICC-ES Acceptance

W must be applied with either a brush or a roller at a

coverage rate of 1 gallon per 70 to 90 square feet

strips must be sealed with sealant. 4.4 Method of Repair:

A portion of the membrane larger than the affected area must be removed and a new piece of material must be prepared that is 1¹/₂-inch (38 mm) larger in dimension than the piece removed, Duradek D763, Duradek D811-23-S or Duradek D811-23-W adhesive must be applied to the substrate and the patch must be placed into the space so it overlaps the existing sheet by ³/₄ inch (19 mm). The patch must be welded to the existing sheet using a hot-air seaming tool. When substrate damage occurs, the retention of the fire classification and wind-resistance properties of the system must be demonstrated to the

satisfaction of the code official. 4.5 Wind Resistance:

The roof deck construction over which the Duradek Ultra system is installed must be designed to resist the minimum design wind pressures set forth in the applicable code. The allowable wind uplift pressures for the roof assemblies are noted in Table 1.

Metal edge securement systems must be listed in accordance with 2011 edition of ANSI/SPRI/FM 4435 ES-1, and designed and installed for wind loads in accordance with 2015 IBC Section 1504.5 and 2015 IBC Chapter 16 [2003 edition of ANSI/SPRI/FM 4435 ES-1, and designed and installed for wind loads in accordance with 2012 and 2009 IBC Section 1504.5 and 2012 and 2009 IBC Chapter

4.6 Roof Covering Classification: See Table 1 for fire-classified assembly details.

5.0 CONDITIONS OF USE

The Duradek Ultra walking deck and roof covering system described in this report complies with, or is a suitable alternative to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

complying with, and installed in accordance with, Sections 5.1 Installation must comply with this report, the report holder's published installation instructions and the applicable code. If there is a conflict between the installation instructions and this report, this report

> 5.2 The Duradek Ultra system may be installed adjacent to swimming pools or spas, or in areas subject to related chemical exposure.

5.3 Wind uplift pressure on any roof area, including edge and corner zones, must not exceed the allowable wind pressure for the roof covering installed in that particular area. Refer to Table 1.

5.4 The allowable wind uplift pressures listed in Table 1 are for the roof covering system only. The deck and framing to which the system is attached must be designed for the applicable components and cladding wind loads in accordance with the applicable code. 5.5 The membrane is manufactured under a quality

control program with inspections by ICC-ES.

Criteria for Walking Decks (AC39), dated June 2017 (editorially revised May 2018).

6.2 Data in accordance with the ICC-ES Acceptance Criteria for Membrane Roof Covering Systems (AC75), dated July 2010 (editorially revised March

- 6.3 Report of fire classification testing in accordance with
- 6.4 Report of simulated wind uplift testing in accordance
- 6.5 Report of impact resistance testing in accordance with ASTM D3746.

7.0 IDENTIFICATION

7.1 Each roll of membrane is identified with the Duradek U.S. Inc. name and address, the evaluation report number (ESR-2151).

The Duradek D763, D811-23-S and Duradek D811-23-W adhesives are identified with the Duradek U.S. Inc. name and address, the product designation, batch number keyed to the date of manufacture, and product expiration date.

The Mapei Ultraflex 2 mortar, USG Durock cement board Next Gen and the Rock-on Hi-Lo thread screws are identified with their product name and company

7.2 The report holder's contact information is the

DURADEK U.S. INC. 8288 129TH STREET SURREY, BRITISH COLUMBIA V3W 0A6

Page 3 of 3

CANADA (604) 591-5594 www.duradek.com duradek@duradek.com

ESR-2151 | Most Widely Accepted and Trusted

TABLE 1—FIRE CLASSIFICATION AND WIND RESISTANCE ASSEMBLIES

| SYSTEM NO. | FIRE CLASSIFICATION | MAXIMUM ALLOWABLE WIND UPLIFT (psf) | SUBSTRATE ² | ADHESIVE (membrane to substrate) | MEMBRANE |
|---------------|---------------------|-------------------------------------|-----------------------------------|--|---------------|
| 1 | A ¹ | 200 | | Duradek D763 | |
| 2 | A ¹ | 200 | Plywood/cement board ³ | Duradek D811-23-S and Duradek D811-23-W | Duradek Ultra |
| 3 | Nonclassified | 200 | | Duradek D763 | Duradek Oltra |
| 4 | C¹ | 240 | Plywood | Duradek D811-23-S and Duradek D811-23-W | - |

For SI: 1 inch = 25.4 mm; 1 psf = 47.8 Pa. ¹Maximum slope for fire classification assemblies is ¹/₄:12 (2 percent slope). See Section 3.2.3 for additional substrate specifications.

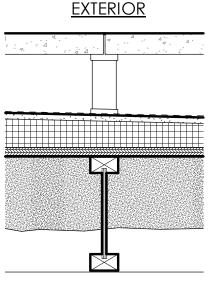
³USG Durock cement board Next Gen attached to plywood substrate with Mapei "Ultraflex 2" polymer modified mortar, troweled down with a 1/4-inchby-1/4-inch square-notched trowel, with notches spaced 1/4 inch on center; and screwed to plywood with 11/4-inch-long Rock-on #9 Hi-Lo thread screws spaced 6 inches on center around the perimeter of the cement board.

PEDESTAL PAVER ROOF OVER BEAMS

• PAVERS PER FINISH SCHEDULE

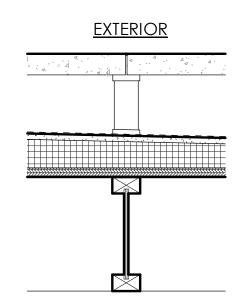
EXTERIOR PEDESTAL PAVER SYSTEM

• ROOF MEMBRANE - DURADEK OR EQ

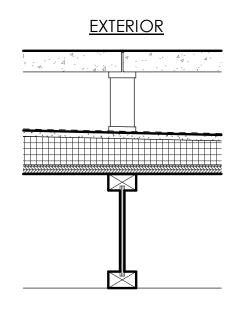


ICC-ES APPROVED MEMBRANE • PROTECTION BOARD - DENSDECK OR EQ HIGH DENSITY RIGID INSULATION SLOPED 1/4" PER FOOT MIN, MIN. 2" R-10 PLYWOOD SHEATHING PER STRUCTURAL FLOOR FRAMING PER STRUCTURAL • 6" CLOSED CELL SPRAY FOAM INSULATION, MIN. R-39 CEILING JOISTS PER STRUCTURAL • 5/8" GWB • FINISH PER FINISH SCHEDULE

INTERIOR



PEDESTAL PAVER ROOF OVER BEAMS



• PAVERS PER FINISH SCHEDULE • EXTERIOR PEDESTAL PAVER SYSTEM • ROOF MEMBRANE - DURADEK OR EQ ICC-ES APPROVED MEMBRANE PROTECTION BOARD - DENSDECK OR EQ HIGH DENSITY RIGID INSULATION SLOPED 1/4" PER FOOT MIN, MIN. 2" R-10 PLYWOOD SHEATHING PER STRUCTURAL

 FLOOR FRAMING PER STRUCTURAL CEILING JOISTS PER STRUCTURAL EXTERIOR GRADE WOOD SOFFIT PANELS FINISH PER FINISH SCHEDULE

EXTERIOR

PEDESTAL PAVER ROOF OVER BEAMS

• EXTERIOR PEDESTAL PAVER SYSTEM

ICC-ES APPROVED MEMBRANE

HIGH DENSITY RIGID INSULATION

• PT SLAB PER STRUCTURAL

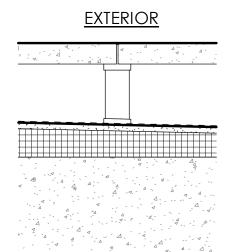
• FINISH PER FINISH SCHEDULE

• ROOF MEMBRANE - DURADEK OR EQ

• PROTECTION BOARD - DENSDECK OR EQ

SLOPED 1/4" PER FOOT MIN, MIN. 2" R-10

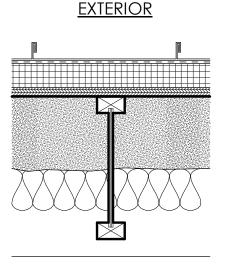
• PAVERS PER FINISH SCHEDULE



EXTERIOR

WOOD FLOOR OVER BEAMS

 1 1/2" STANDING SEAM METAL ROOF ROOF MEMBRANE



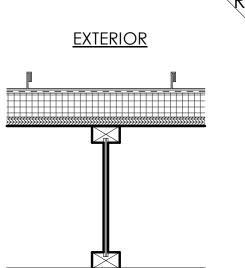
• RIGID INSULATION, MIN 2" R-10 PLYWOOD SHEATHING PER STRUCTURAL ROOF FRAMING PER STRUCTURAL • 6" CLOSED CELL SPRAY FOAM insulation, min. R-39 • BATT INSULATION, MIN, R-11 • AIR SPACE FOR MECHANICAL CEILING JOISTS PER STRUCTURAL • 5/8" GWB

• FINISH PER FINISH SCHEDULE

<u>INTERIOR</u>

WOOD FLOOR OVER BEAMS

ROOF MEMBRANE



EXTERIOR

• RIGID INSULATION, MIN 2" R-10 PLYWOOD SHEATHING PER STRUCTURAL ROOF FRAMING PER STRUCTURAL • EXTERIOR GRADE WOOD SOFFIT PANELS • FINISH PER FINISH SCHEDULE

• 1 1/2" STANDING SEAM METAL ROOF

EXTERIOR

INTERIOR

WOOD FLOOR OVER BEAMS

 4" PREVEGETATED MODULAR GREEN **ROOF SYSTEM**

 PROTECTION COURSE ROOF MEMBRANE COVER BOARD • RIGID INSULATION, MIN 2" R-10

 VAPOR BARRIER PLYWOOD SHEATHING PER STRUCTURAL ROOF FRAMING PER STRUCTURAL 6" CLOSED CELL SPRAY FOAM insulation, min. R-39

• WOOD SOFFIT CEILING PANELS TO MATCH EXTERIOR WOOD SOFFIT • FINISH PER FINISH SCHEDULE

TEL 206.749.9019 FAX 206.749.9128 WWW.GARRETCORDWERNER.COM

GARRET CORD WERNER LLC

3132 WESTERN AVE

SEATTLE WA

COPYRIGHT RESERVED

THIS DRAWING, AS AN INSTRUMENT OF SERVICE, IS AND AT ALL TIMES REMAINS THE PROPERTY OF GARRET CORD WERNER, LLC. AND MAY NOT BE USED WITHOUT HIS WRITTEN PERMISSION. ALL DESIGNS AND OTHER INFORMATION SHOWN ON THIS DRAWING ARE FOR USE ON THE SPECIFIED PROJECT AND SHALL NOT BE OTHERWISE USED WITHOUT THE PERMISSION OF GARRET CORD WERNER, LLC.

GENERAL NOTES:

CODES AND STANDARDS.

1. ALL CODE COMPLIANCE TO BE VERIFIED PRIOR TO CONSTRUCTION BY ARCHITECT AND 2. THE CONTRACTOR SHALL VERIFY ALL

DIMENSIONS, DATUMS, AND LEVELS PRIOR TO THE START OF WORK. 3. ALL REVISIONS SHOWN TO BE VERIFIED BY ARCHITECT TO COMPLY WITH ALL BUILDING

4. MILLWORKER TO CONFIRM ALL CLEARANCES 5. PERMIT DRAWINGS - NOT TO BE USED FOR CONSTRUCTION. 6. DO NOT SCALE FROM THIS DRAWING 7. ALL GLAZING TEMPERED SAFETY GLASS UNLESS OTHERWISE NOTED

8. ELECTRICAL & LIGHTING DRAWINGS FOR

CHECKED BY

GCW

DESIGN PURPOSES ONLY. SUBCONTRACTOR TO NOTIFY ARCHITECT OF ANY DISCREPANCIES OR NON-COMPLIANCE OF BUILDING CODES. DRAWN BY 3/22/2021 AHP

'FOO' RESIDENCE

1 1/2" = 1'-0"

PROJECT

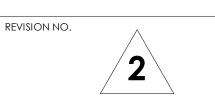
3453 74th Ave SE Mercer Island, WA 98040

REV DATE ISSUE/REVISION

10/28/20 City Comments

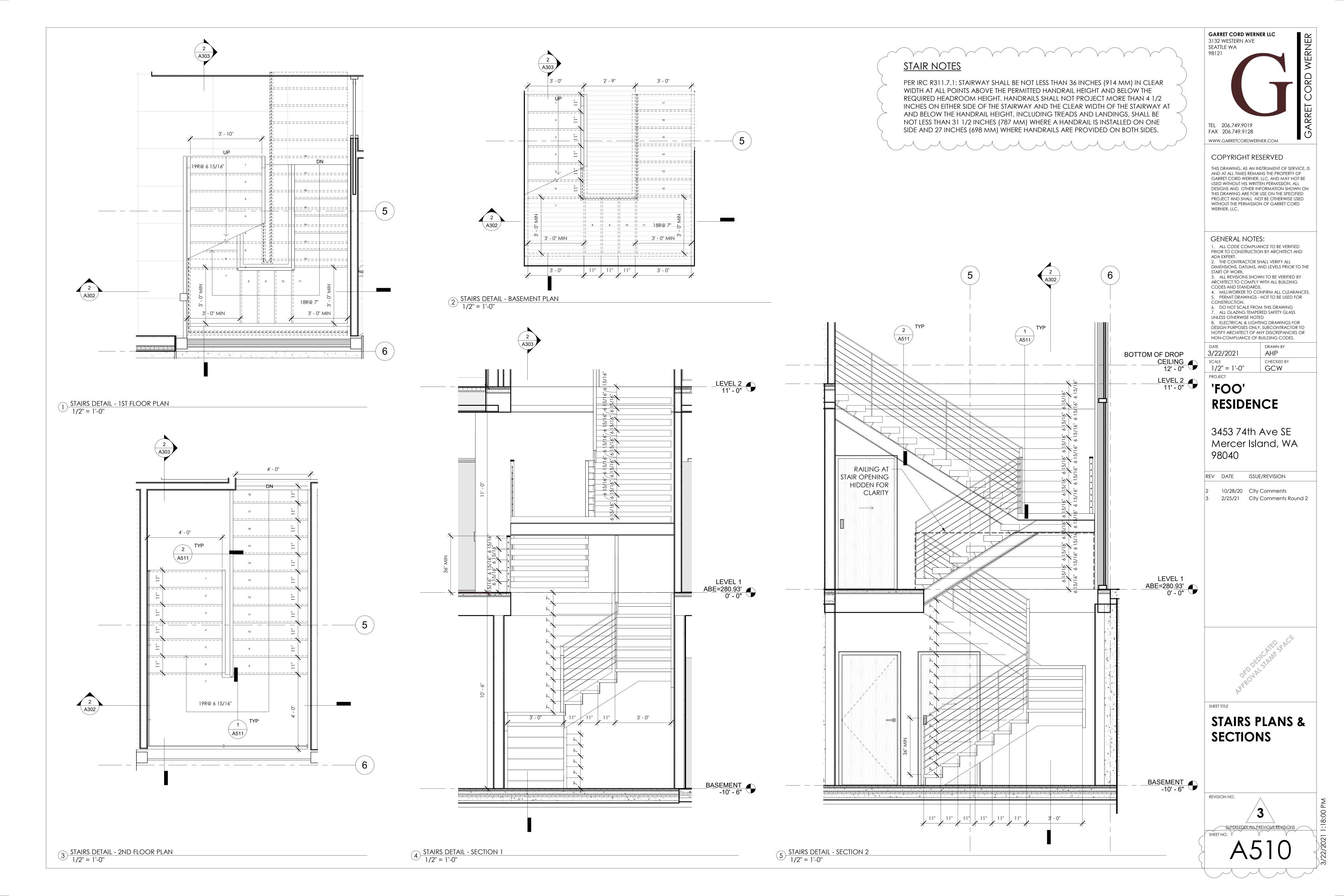


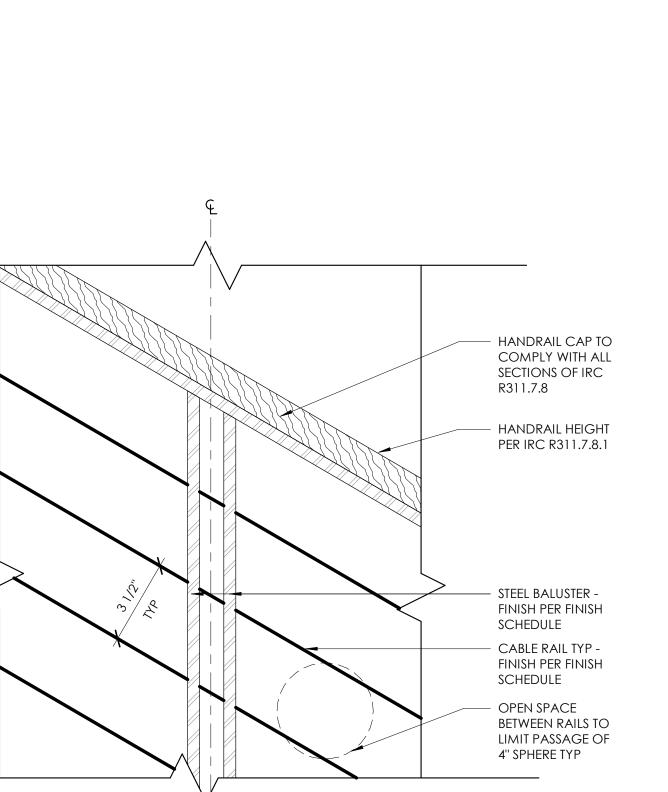
TYPICAL ASSEMBLIES -ROOF





SUPERSEDES ALL PREVIOUS REVISIONS





5 TYPICAL HANDRAIL / GUARDRAIL CAP DETAIL 3" = 1'-0"

 $4 \frac{\text{TYPICAL BALUSTER DETAIL}}{3" = 1'-0"}$

STAIR ABOVE

HANDRAIL ABOVE

CABLE RAIL TYP - -

FINISH PER FINISH

SCHEDULE

3" = 1'-0"

STEEL BALUSTER -

FINISH PER FINISH

SCHEDULE

STAIR LANDING -

CABLE RAIL TYP -FINISH PER FINISH

STEEL BALUSTER -FINISH PER FINISH SCHEDULE

OPEN SPACE

4" SPHERE TYP

— 2 X FRAMING

SCHEDULE

STRUCTURAL

OPEN SPACE AT
 TRIANGULAR OPENING
 TO LIMIT PASSAGE OF 6"

SPHERE TYP

BETWEEN RAILS TO

LIMIT PASSAGE OF

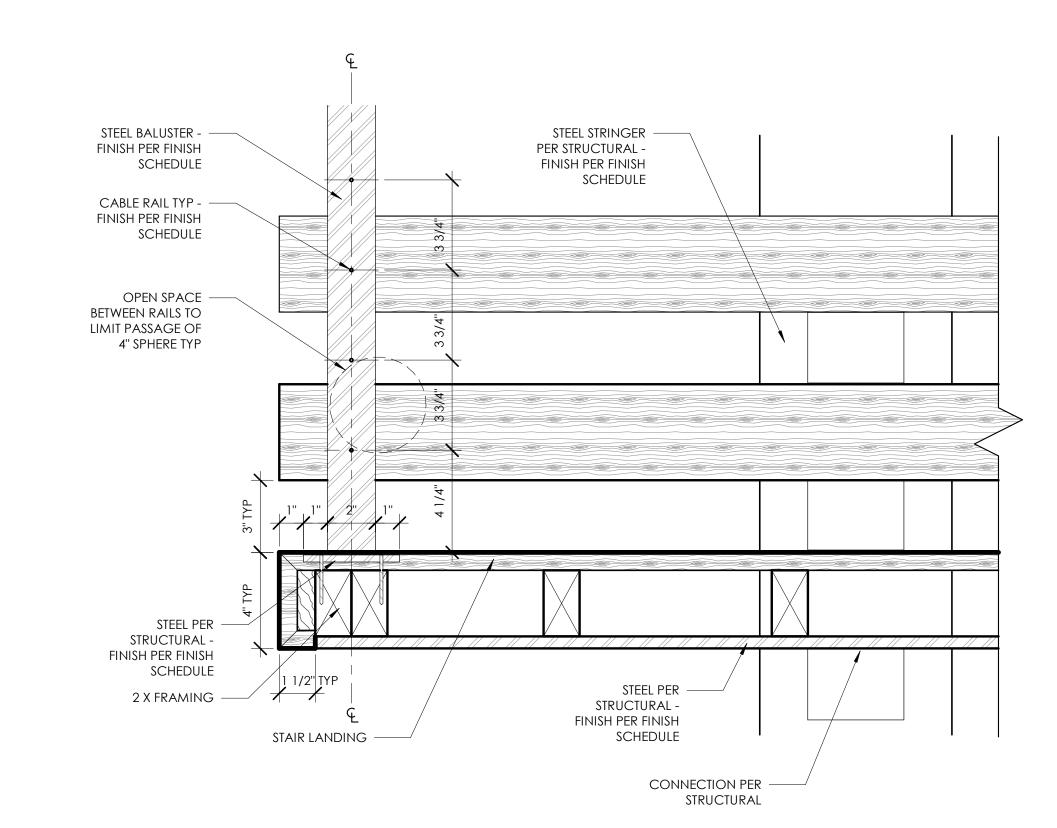
STEEL PER STRUCTURAL -

FINISH PER FINISH

CONNECTION PER

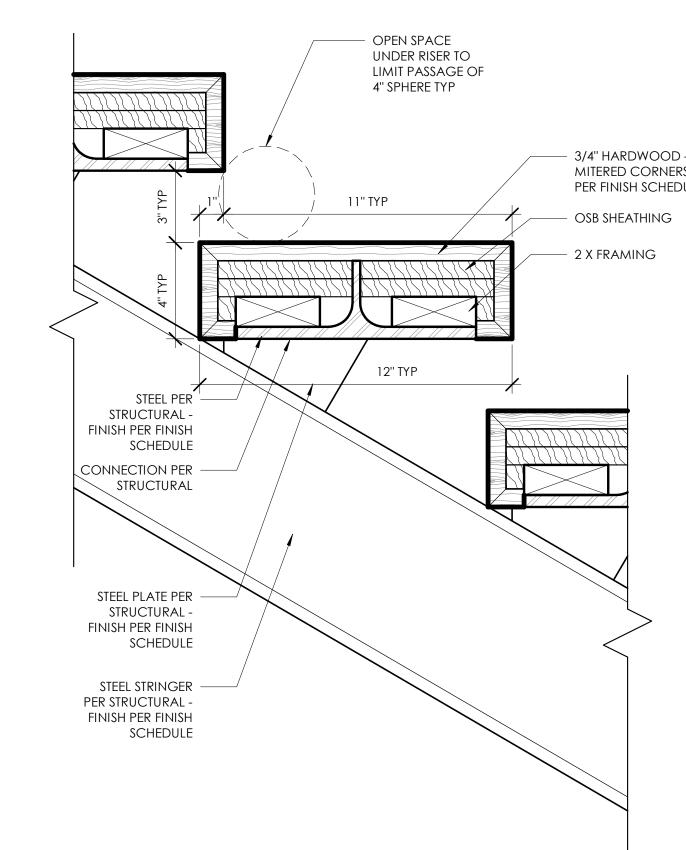
SCHEDULE

 3/4" HARDWOOD MITERED CORNERS - FINISH
 PER FINISH SCHEDULE 11" TYP - OSB SHEATHING - 2 X FRAMING 12" TYP STEEL PER STRUCTURAL -FINISH PER FINISH SCHEDULE CONNECTION PER -STRUCTURAL STEEL PLATE PER STRUCTURAL -FINISH PER FINISH SCHEDULE STEEL STRINGER -PER STRUCTURAL -FINISH PER FINISH SCHEDULE



1 TYPICAL BALUSTER AT STAIR LANDING DETAIL 3" = 1'-0"

2 TYPICAL STAIR TREAD / RISER / STRINGER DETAIL 3" = 1'-0"



GARRET CORD WERNER LLC 3132 WESTERN AVE SEATTLE WA TEL 206.749.9019 FAX 206.749.9128 WWW.GARRETCORDWERNER.COM

COPYRIGHT RESERVED

THIS DRAWING, AS AN INSTRUMENT OF SERVICE, IS AND AT ALL TIMES REMAINS THE PROPERTY OF GARRET CORD WERNER, LLC. AND MAY NOT BE USED WITHOUT HIS WRITTEN PERMISSION. ALL DESIGNS AND OTHER INFORMATION SHOWN ON THIS DRAWING ARE FOR USE ON THE SPECIFIED PROJECT AND SHALL NOT BE OTHERWISE USED WITHOUT THE PERMISSION OF GARRET CORD WERNER, LLC.

GENERAL NOTES:

CONSTRUCTION.

ALL CODE COMPLIANCE TO BE VERIFIED
PRIOR TO CONSTRUCTION BY ARCHITECT AND

2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, DATUMS, AND LEVELS PRIOR TO THE START OF WORK. 3. ALL REVISIONS SHOWN TO BE VERIFIED BY ARCHITECT TO COMPLY WITH ALL BUILDING

CODES AND STANDARDS.

4. MILLWORKER TO CONFIRM ALL CLEARANCES.

5. PERMIT DRAWINGS - NOT TO BE USED FOR

6. DO NOT SCALE FROM THIS DRAWING
7. ALL GLAZING TEMPERED SAFETY GLASS UNLESS OTHERWISE NOTED 8. ELECTRICAL & LIGHTING DRAWINGS FOR DESIGN PURPOSES ONLY. SUBCONTRACTOR TO NOTIFY ARCHITECT OF ANY DISCREPANCIES OR

NON-COMPLIANCE OF BUILDING CODES.

| DAIL | DRAWNDI |
|------------|------------|
| 3/22/2021 | NLD |
| SCALE | CHECKED BY |
| 3" = 1'-0" | GCW |
| PROJECT | |

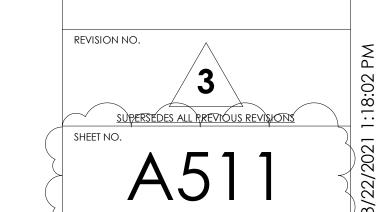
'FOO' RESIDENCE

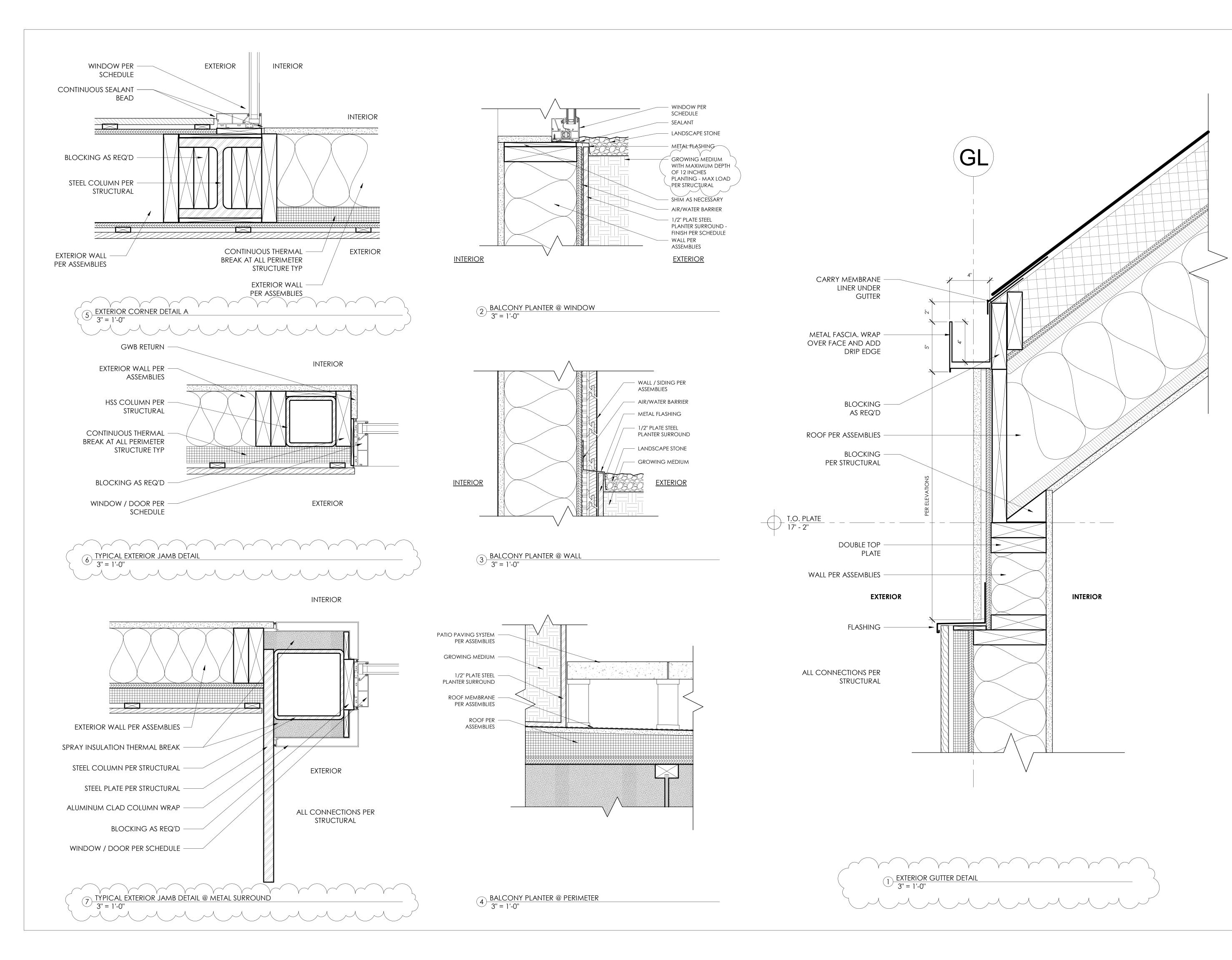
3453 74th Ave SE Mercer Island, WA 98040

REV DATE ISSUE/REVISION

10/28/20 City Comments 2/25/21 City Comments Round 2

STAIR DETAILS





GARRET CORD WERNER LLC

3132 WESTERN AVE
SEATTLE WA
98121

TEL 206.749.9019
FAX 206.749.9128

COPYRIGHT RESERVED

WWW.GARRETCORDWERNER.COM

THIS DRAWING, AS AN INSTRUMENT OF SERVICE, IS AND AT ALL TIMES REMAINS THE PROPERTY OF GARRET CORD WERNER, LLC. AND MAY NOT BE USED WITHOUT HIS WRITTEN PERMISSION. ALL DESIGNS AND OTHER INFORMATION SHOWN ON THIS DRAWING ARE FOR USE ON THE SPECIFIED PROJECT AND SHALL NOT BE OTHERWISE USED WITHOUT THE PERMISSION OF GARRET CORD WERNER, LLC.

GENERAL NOTES:

- ALL CODE COMPLIANCE TO BE VERIFIED
 PRIOR TO CONSTRUCTION BY ARCHITECT AND
 ADA EXPERT.
- 2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, DATUMS, AND LEVELS PRIOR TO THE START OF WORK.
- ALL REVISIONS SHOWN TO BE VERIFIED BY ARCHITECT TO COMPLY WITH ALL BUILDING CODES AND STANDARDS.
- CODES AND STANDARDS.

 4. MILLWORKER TO CONFIRM ALL CLEARANCES.

 5. PERMIT DRAWINGS NOT TO BE USED FOR CONSTRUCTION.

 6. DO NOT SCALE FROM THIS DRAWING.
- 6. DO NOT SCALE FROM THIS DRAWING
 7. ALL GLAZING TEMPERED SAFETY GLASS
 UNLESS OTHERWISE NOTED
 8. ELECTRICAL & LIGHTING DRAWINGS FOR
 DESIGN PURPOSES ONLY. SUBCONTRACTOR TO
 NOTIFY ARCHITECT OF ANY DISCREPANCIES OR

| NON-COMPLIANCE OF BUILDING CODES. | | | | | |
|-----------------------------------|---------------|--|--|--|--|
| DATE 3/22/2021 | DRAWN BY AHP | | | | |
| SCALE | CHECKED BY | | | | |

GCW

'FOO' RESIDENCE

3'' = 1'-0''

PROJECT

3453 74th Ave SE Mercer Island, WA 98040

REV DATE ISSUE/REVISION

10/28/20 City Comments

2/25/21 City Comments Round 2



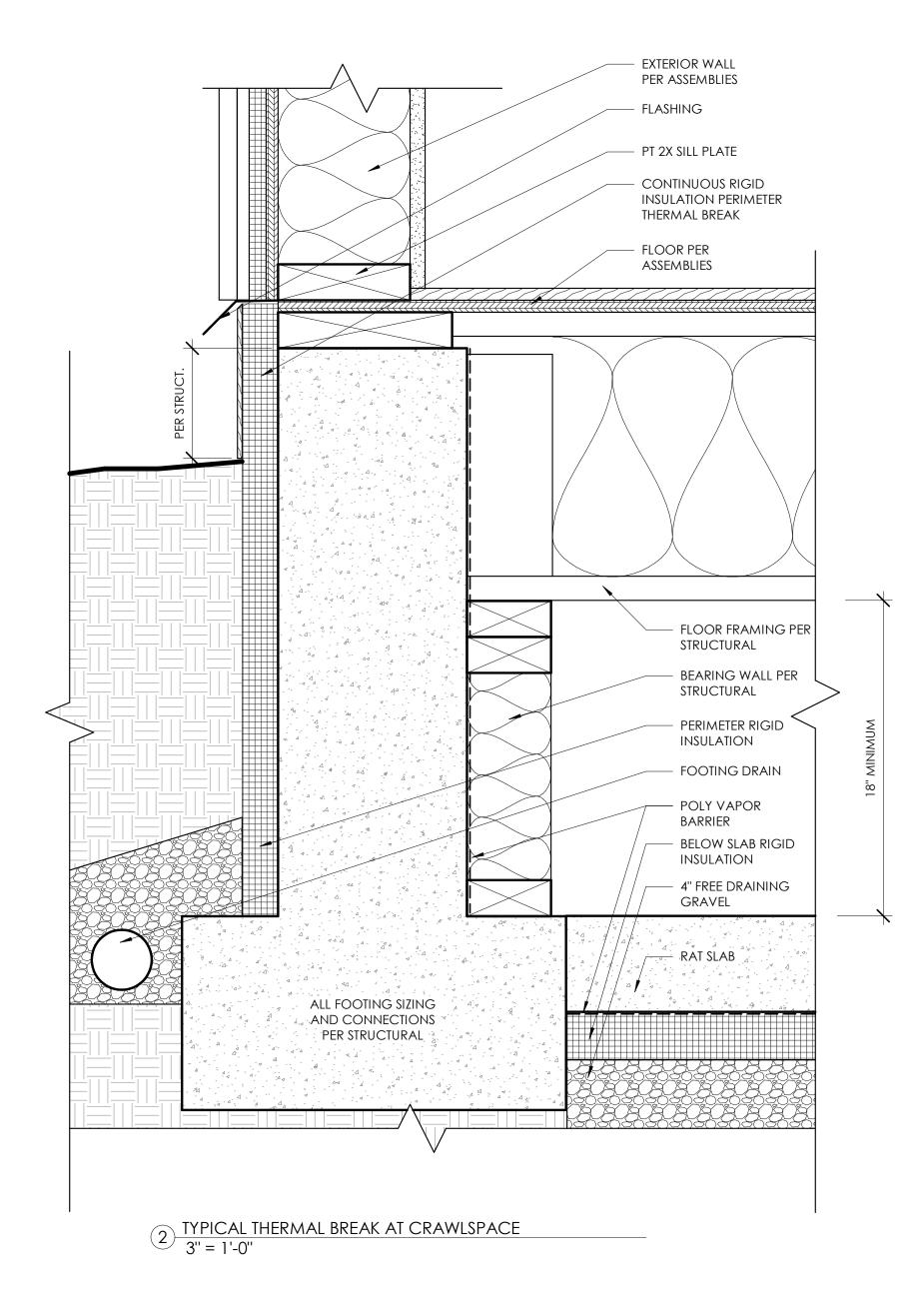
EXTERIOR DETAILS

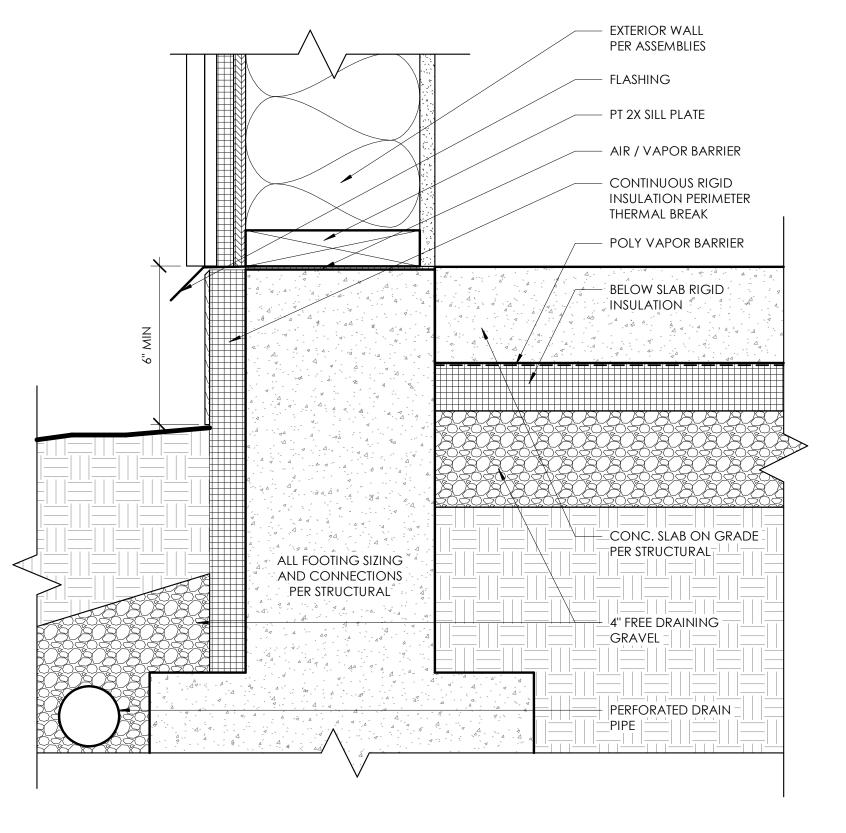
SHEET TITLE

REVISION NO.

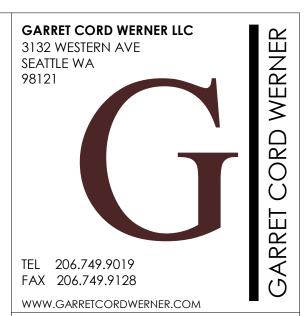
SUPERSEDES ALL PREVIOUS REVISION

A512





1) TYPICAL THERMAL BREAK @ FOUNDATION 3" = 1'-0"



COPYRIGHT RESERVED

THIS DRAWING, AS AN INSTRUMENT OF SERVICE, IS AND AT ALL TIMES REMAINS THE PROPERTY OF GARRET CORD WERNER, LLC. AND MAY NOT BE USED WITHOUT HIS WRITTEN PERMISSION. ALL DESIGNS AND OTHER INFORMATION SHOWN ON THIS DRAWING ARE FOR USE ON THE SPECIFIED PROJECT AND SHALL NOT BE OTHERWISE USED WITHOUT THE PERMISSION OF GARRET CORD WERNER, LLC.

GENERAL NOTES:

ALL CODE COMPLIANCE TO BE VERIFIED
PRIOR TO CONSTRUCTION BY ARCHITECT AND

2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, DATUMS, AND LEVELS PRIOR TO THE START OF WORK.

3. ALL REVISIONS SHOWN TO BE VERIFIED BY ARCHITECT TO COMPLY WITH ALL BUILDING CODES AND STANDARDS.

4. MILLWORKER TO CONFIRM ALL CLEARANCES.

5. PERMIT DRAWINGS - NOT TO BE USED FOR

CONSTRUCTION. 6. DO NOT SCALE FROM THIS DRAWING
7. ALL GLAZING TEMPERED SAFETY GLASS

UNLESS OTHERWISE NOTED 8. ELECTRICAL & LIGHTING DRAWINGS FOR DESIGN PURPOSES ONLY. SUBCONTRACTOR TO NOTIFY ARCHITECT OF ANY DISCREPANCIES OR NON-COMPLIANCE OF BUILDING CODES.

| DAIE | DRAWN BY |
|--------------|------------|
| 3/22/2021 | Author |
| SCALE | CHECKED BY |
| 3'' = 1'-0'' | Checker |
| PROJECT | |

'FOO' RESIDENCE

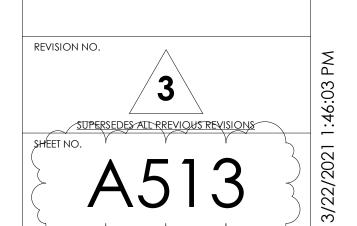
3453 74th Ave SE Mercer Island, WA 98040

REV DATE ISSUE/REVISION

2/25/21 City Comments Round 2



EXTERIOR DETAILS



WINDOW NOTES

- 1. Safety glazing (SG) to be provided where required by IRC R308.4. Refer to plans for safety glazing locations. Each pane of safety glazing shall be identified by a label in accordance with the IRC.
- 2. Emergency escape and rescue openings shall be installed per IRC R310. See plans for locations. All emergency escape and rescue openings shall have a minimum net clear opening of 5.7SF. The minimum net clear opening height shall be no less than 24", clear opening width no less than 20", with a finished sill height not more than 44" above the floor.
- 3. Window supplier/manufacturer to field verify all rough openings, window divisions, and operation prior to production of all windows.
- 4. All window finishes per architect. Window supplier to submit color sample for approval by architect/owner.
- 5. Windows within 10'-0" of grade (or accessible deck) shall be capable of being locked.
- 6. All glazing to have an area weighted average U-factor of 0.28 max per the WSEC and using the prescriptive option. Manufacturer to confirm during shop drawing process.
- 7. Safety glazing to be provided when adjacent to stairways and landings within 36" horizontally of a walking surface.

| <u>WINDOW SCHEDULE</u> | | | | | | | | |
|------------------------|-----------|--------------|-----------|----------|----------|-------|----------------|----------|
| Mark | SILL | Length | Height | Area | U-Factor | UA | Glazing | Comments |
| | | | | | , | | | |
| W001 | 3' - 8'' | 3' - 0'' | 5' - 6'' | 16.5 SF | 0.28 | 4.6 | | EGRESS |
| W100 | 0' - 0'' | 5' - 11" | 12' - 0'' | 71.0 SF | 0.28 | 19.9 | SAFETY GLAZING | |
| W101 | 0' - 0'' | 5' - 11" | 12' - 0" | 71.0 SF | 0.28 | 19.9 | SAFETY GLAZING | |
| W102 | 0' - 0'' | 4' - 6" | 11' - 0" | 46.8 SF | 0.28 | 13.1 | SAFETY GLAZING | |
| W103 | 0' - 0'' | 4' - 6" | 11' - 0" | 46.8 SF | 0.28 | 13.1 | SAFETY GLAZING | |
| W107 | 0' - 0'' | 9' - 11" | 10' - 0'' | 99.2 SF | 0.28 | 27.8 | SAFETY GLAZING | |
| W108 | 10' - 0'' | 9' - 11" | 10' - 0'' | 99.2 SF | 0.28 | 27.8 | SAFETY GLAZING | |
| W111 | 0' - 0'' | 5' - 2 1/2'' | 7' - 1'' | 34.8 SF | 0.28 | 9.8 | SAFETY GLAZING | |
| W112 | 3' - 0'' | 15' - 0'' | 2' - 6'' | 37.5 SF | 0.28 | 10.5 | | |
| W113 | 7' - 0'' | 15' - 0'' | 2' - 6'' | 37.5 SF | 0.28 | 10.5 | | |
| W201 | 3' - 0'' | 15' - 2 1/4" | 4' - 0'' | 60.7 SF | 0.28 | 17.0 | | |
| W203 | 1' - 6" | 8' - 0'' | 4' - 8'' | 37.3 SF | 0.28 | 10.5 | SAFETY GLAZING | |
| W206 | 0' - 0'' | 5' - 10'' | 10' - 0'' | 58.3 SF | 0.28 | 16.3 | SAFETY GLAZING | EGRESS |
| Grand tot | al: 13 | , | , | 716.6 SF | , | 200.7 | , | |

| | GLAZED DOOR SCHEDULE | | | | | | | | | |
|----------|----------------------|----------------------------|--------------|--------------|---------------|---------|----------|--------|----------------|----------|
| Mark | Function | Description | Thickness | Height | Width | Area | U-Factor | | Glazing | Comments |
| 101 | Exterior | Glazed Slider 3 Panel XOO | 0' - 8 9/16" | 12' - 0'' | 18' - 0 1/4" | 216 SF | 0.28 | 61 SF | SAFETY GLAZING | |
| 102 | Exterior | Glazed Slider 2 Panel XO | 0' - 5 7/8" | 12' - 0'' | 8' - 9" | 105 SF | 0.28 | 29 SF | SAFETY GLAZING | |
| 103 | Exterior | Glazed Slider 4 Panel OXXO | 0' - 5 7/8" | 9' - 6'' | 16' - 6'' | 157 SF | 0.28 | 44 SF | SAFETY GLAZING | |
| 113 | Exterior | Glazed Slider 2 Panel XO | 0' - 5 7/8" | 11' - 0'' | 10' - 0 1/16" | 110 SF | 0.28 | 31 SF | SAFETY GLAZING | |
| 114 | Exterior | Glazed Slider 2 Panel XO | 0' - 5 7/8" | 11' - 0'' | 9' - 6 7/8'' | 105 SF | 0.28 | 29 SF | SAFETY GLAZING | EGRESS |
| 119 | Exterior | Glazed Slider 4 Panel OXXO | 0' - 5 7/8" | 10' - 0'' | 14' - 0 5/8" | 141 SF | 0.28 | 39 SF | SAFETY GLAZING | EGRESS |
| 120 | Exterior | Glazed Slider 2 Panel XO | 0' - 5 7/8" | 9' - 0'' | 11' - 9'' | 106 SF | 0.28 | 30 SF | SAFETY GLAZING | |
| 121 | Exterior | Glazed Slider 2 Panel XO | 0' - 5 7/8" | 9' - 0'' | 11' - 9'' | 106 SF | 0.28 | 30 SF | SAFETY GLAZING | |
| 202 | Exterior | Glazed Slider 2 Panel XO | 0' - 5 7/8" | 7' - 0'' | 8' - 4" | 58 SF | 0.28 | 16 SF | SAFETY GLAZING | EGRESS |
| 207 | Exterior | Glazed Slider 2 Panel XO | 0' - 5 7/8" | 11' - 1 1/4" | 10' - 0 1/16" | 111 SF | 0.28 | 31 SF | SAFETY GLAZING | EGRESS |
| 208 | Exterior | Glazed Slider 2 Panel XO | 0' - 5 7/8" | 11' - 0'' | 9' - 6 7/8'' | 105 SF | 0.28 | 29 SF | SAFETY GLAZING | EGRESS |
| Grand to | otal: 11 | | | | | 1320 SF | , | 370 SF | | |



COPYRIGHT RESERVED

THIS DRAWING, AS AN INSTRUMENT OF SERVICE, IS AND AT ALL TIMES REMAINS THE PROPERTY OF GARRET CORD WERNER, LLC. AND MAY NOT BE USED WITHOUT HIS WRITTEN PERMISSION. ALL DESIGNS AND OTHER INFORMATION SHOWN ON THIS DRAWING ARE FOR USE ON THE SPECIFIED PROJECT AND SHALL NOT BE OTHERWISE USED WITHOUT THE PERMISSION OF GARRET CORD WERNER, LLC.

GENERAL NOTES:

- 1. ALL CODE COMPLIANCE TO BE VERIFIED PRIOR TO CONSTRUCTION BY ARCHITECT AND ADA EXPERT.
- 2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, DATUMS, AND LEVELS PRIOR TO THE START OF WORK.

 3. ALL REVISIONS SHOWN TO BE VERIFIED BY
- ARCHITECT TO COMPLY WITH ALL BUILDING CODES AND STANDARDS.

 4. MILLWORKER TO CONFIRM ALL CLEARANCES.

 5. PERMIT DRAWINGS NOT TO BE USED FOR
- MILLWORKER TO CONFIRM ALL CLEARAN
 PERMIT DRAWINGS NOT TO BE USED FOR CONSTRUCTION.
 DO NOT SCALE FROM THIS DRAWING
 ALL GLAZING TEMPERED SAFETY GLASS
- UNLESS OTHERWISE NOTED

 8. ELECTRICAL & LIGHTING DRAWINGS FOR
 DESIGN PURPOSES ONLY. SUBCONTRACTOR TO
 NOTIFY ARCHITECT OF ANY DISCREPANCIES OR
 NON-COMPLIANCE OF BUILDING CODES.

| DATE | DRAWN BY |
|-----------|------------|
| 3/22/2021 | AHP |
| SCALE | CHECKED BY |
| | GCW |

'FOO' RESIDENCE

PROJECT

3453 74th Ave SE Mercer Island, WA 98040

REV DATE ISSUE/REVISION

10/28/20 City Comments



SHEET TITI

WINDOW SCHEDULE & TYPES

REVISION

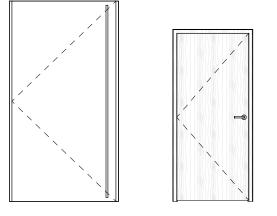


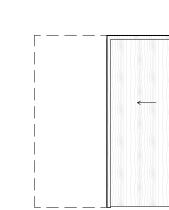
A601

3/22/2021 1:18:05 PM

DOOR NOTES

- 1. Safety Glazing (SG) to be provided where required by IRC R308.4. All glazing subject to human impact shall be tempered, safety glazing as required by the IRC. Provide safety glazing in fixed or operable panels adjacent to a door where the nearest exposed edge of the glazing is within a 24" arc of either vertical edge or the door in a closed position and where the bottom edge of the glazing is less than 60" above the walking surface. Provide safety glazing for panels over 9SF and within 18" vertical and 36" horizontal of any walking surface. Provide safety glazing in all shower doors, shower enclosures, bathtub enclosures, or bathtub doors. Glass enclosure doors and panels must be labeled category II, and doors must swing outward. Refer to plans for safety glazing locations. Each pane of safety glazing shall be identified by a label in accordance with the IRC.
- 2. Door frames and frame anchorage shall be installed according to the conditions of their listing.
- 3. All exterior doors, except garage doors, to be provided with mortise lock and deadbolt. Minimum 1/2" throw dead latch for doors per IRC R329.
- 4. All glazed doors to have an area weighted average U-factor of 0.30 max. per the WSEC using the prescriptive option.
- 5. 1 1/2" maximum threshold for all exterior doors swinging out to the exterior. (IRC R311.3)
- 6. Exterior doors to have a U-factor of 0.20 max per the WSEC prescriptive option.
- 7. Fire doors, windows, and dampers shall have an approved label or listing mark, indicating fire-protection rating, which is visible for inspection and permanently affixed at the time of manufacture.
- 8. All exterior, mechanical room doors shall be insulated, with interlocking low-rise thresholds and weatherstripping.
- 9. Door thresholds shall not exceed 1/2" in height above finished floor.
- 10. All bedroom, bathroom, and powder room doors to be provided with privacy locks.
- 11. Operation, hinging, pocketing or sliding per plans.
- 12. All interior doors to be painted wood solid core.
- 13.Door supplier/manufacturer to field verify all rough openings and operation prior to production of the doors.
- 14. Sizes noted are for reference only, field verify R.O. size before ordering doors.
- 15.Door glazing to be argon filled, 1" 366 I.G.
- 16. Windows and doors shall limit infiltration per ASTM E 283-73.





DOOR TYPE A

DOOR TYPE B DOOR TYPE C

DOOR TYPES
1/4" = 1'-0"

| DOOR SCHEDULE | | | | | | | | | |
|---------------|----------------------|---------------------------------|--------------|---------------|--------------|-------------------|---------------------|------------------|----------|
| Mark | Function | Door Type | Height | Width | Thickness | Glazing | Hardware Package | Door Material | Comments |
| 001 | Intorior | Dooket | 8' - 0'' | 4' - 0'' | 0' - 1 3/8" | | | | |
| 001 002 | Interior Interior | Pocket Flush | 7' - 0" | 3' - 0" | 0' - 1 3/8" | | | | |
| 003 | Interior | Pocket | 7' - 0" | 3' - 0" | 0' - 1 3/8" | | | | |
| 100 | Exterior | Offset Pivot | 12' - 0" | 4' - 8" | 0' - 1 3/4" | | | | ENTRY |
| 101 | Exterior | Glazed Slider 3 Panel | 12' - 0" | 18' - 0 1/4" | 0' - 8 9/16" | | | | LINIKI |
| 102 | Exterior | XOO Glazed Slider 2 Panel XO | 12' - 0'' | 8' - 9'' | 0' - 5 7/8'' | GLAZING SAFETY | | | |
| 103 | Exterior | Glazed Slider 4 Panel | 9' - 6" | 16' - 6'' | 0' - 5 7/8" | GLAZING SAFETY | | | |
| 104 | Lock and an | OXXO | 71 011 | 21 011 | 01 1 0 (011 | GLAZING | | | |
| 104 | Interior | Flush | 7' - 0'' | 3' - 0" | 0' - 1 3/8" | | | | |
| 105 | Interior | Flush | 7' - 0'' | 3' - 0" | 0' - 1 3/8" | | | | |
| 106 | Interior | Flush | 7' - 0'' | 3' - 0" | 0' - 1 3/8" | | | | |
| 107 | Exterior | Offset Pivot | 7' - 0'' | 3' - 4" | 0' - 1 3/4" | | | | |
| 108 | Exterior | Garage | 7' - 0'' | 18' - 0" | 0' - 1 1/2" | | | | |
| 109 | Interior | Pocket | 7' - 0'' | 3' - 0" | 0' - 1 3/8" | | | | |
| 110 | Interior | Flush | 7' - 0'' | 3' - 0'' | 0' - 1 3/8" | | | | |
| 112 | Interior | Flush | 7' - 0'' | 3' - 0'' | 0' - 1 3/8'' | | | | |
| 113 | Exterior | Glazed Slider 2 Panel XO | 11' - 0" | 10' - 0 1/16" | 0' - 5 7/8" | SAFETY GLAZING | | | |
| 114 | Exterior | Glazed Slider 2 Panel XO | 11' - 0'' | 9' - 6 7/8" | 0' - 5 7/8'' | SAFETY GLAZING | | | EGRESS |
| 115 | Interior | Flush | 7' - 0'' | 3' - 0'' | 0' - 1 3/8" | | | | |
| 116 | Interior | Flush | 7' - 0'' | 3' - 0'' | 0' - 1 3/8" | | | | |
| 117 | Interior | Pocket | 7' - 0'' | 2' - 6'' | 0' - 1 3/8" | | | | |
| 118 | Interior | Pocket | 7' - 0'' | 2' - 6" | 0' - 1 3/8" | | | | |
| 119 | Exterior | Glazed Slider 4 Panel OXXO | 10' - 0'' | 14' - 0 5/8" | 0' - 5 7/8'' | SAFETY GLAZING | | | EGRESS |
| 120 | Exterior | Glazed Slider 2 Panel XO | 9' - 0'' | 11' - 9'' | 0' - 5 7/8'' | SAFETY GLAZING | | | |
| 121 | Exterior | Glazed Slider 2 Panel XO | 9' - 0'' | 11' - 9'' | 0' - 5 7/8'' | SAFETY GLAZING | | | |
| 122 | Interior | Flush | 7' - 0'' | 3' - 0'' | 0' - 1 3/8" | | | | |
| 200 | Interior | Flush | 7' - 0'' | 3' - 0'' | 0' - 1 3/8" | | | | |
| 201 | Interior | Pocket | 7' - 0'' | 4' - 8" | 0' - 1 3/8" | SAFETY GLAZING | | | |
| 202 | Exterior | Glazed Slider 2 Panel XO | 7' - 0'' | 8' - 4" | 0' - 5 7/8'' | SAFETY GLAZING | | | EGRESS |
| 203 | Interior | Pocket | 7' - 0'' | 2' - 6" | 0' - 1 3/8" | | | | |
| 204 | Interior | Flush | 7' - 0'' | 3' - 0" | 0' - 1 3/8" | | | | |
| 205 | Interior | Pocket | 7' - 0'' | 2' - 6" | 0' - 1 3/8" | | | | |
| 206 | Exterior | Offset Pivot | 7' - 0'' | 3' - 4" | 0' - 1 3/4" | | | | |
| 207 | Exterior | Glazed Slider 2 Panel XO | 11' - 1 1/4" | 10' - 0 1/16" | 0' - 5 7/8" | SAFETY GLAZING | | | EGRESS |
| 208 | Exterior | Glazed Slider 2 Panel XO | 11' - 0" | 9' - 6 7/8'' | 0' - 5 7/8'' | SAFETY GLAZING | | | EGRESS |
| 209 | Interior | Flush | 7' - 0'' | 3' - 0'' | 0' - 1 3/8" | | | | |
| 210 | Interior | Flush | 7' - 0'' | 2' - 6" | 0' - 1 3/8" | | | | |
| 211 | Interior | Flush | 7' - 0'' | 3' - 0" | 0' - 1 3/8" | | | | |



COPYRIGHT RESERVED

THIS DRAWING, AS AN INSTRUMENT OF SERVICE, IS AND AT ALL TIMES REMAINS THE PROPERTY OF GARRET CORD WERNER, LLC. AND MAY NOT BE USED WITHOUT HIS WRITTEN PERMISSION. ALL DESIGNS AND OTHER INFORMATION SHOWN ON THIS DRAWING ARE FOR USE ON THE SPECIFIED PROJECT AND SHALL NOT BE OTHERWISE USED WITHOUT THE PERMISSION OF GARRET CORD WERNER, LLC.

GENERAL NOTES:

- ALL CODE COMPLIANCE TO BE VERIFIED
 PRIOR TO CONSTRUCTION BY ARCHITECT AND
 ADA EXPERT.
- 2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, DATUMS, AND LEVELS PRIOR TO THE START OF WORK.
- 3. ALL REVISIONS SHOWN TO BE VERIFIED BY ARCHITECT TO COMPLY WITH ALL BUILDING CODES AND STANDARDS.
- CODES AND STANDARDS.

 4. MILLWORKER TO CONFIRM ALL CLEARANCES.

 5. PERMIT DRAWINGS NOT TO BE USED FOR CONSTRUCTION.
- CONSTRUCTION.

 6. DO NOT SCALE FROM THIS DRAWING

 7. ALL GLAZING TEMPERED SAFETY GLASS
 UNLESS OTHERWISE NOTED

 8. ELECTRICAL & LIGHTING DRAWINGS FOR
 DESIGN PURPOSES ONLY. SUBCONTRACTOR TO

| DESIGN FOR OSES CIVET | . JUDGOININACION I | | | | |
|-----------------------------------|--------------------|--|--|--|--|
| NOTIFY ARCHITECT OF AN | NY DISCREPANCIES C | | | | |
| NON-COMPLIANCE OF BUILDING CODES. | | | | | |
| DATE | DRAWN BY | | | | |
| 3/22/2021 | AHP | | | | |

SCALE CHECKED BY

1/4" = 1'-0"

PROJECT

'FOO' RESIDENCE

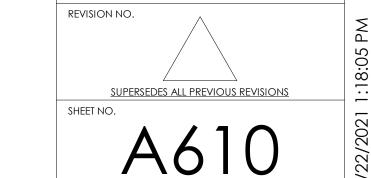
3453 74th Ave SE Mercer Island, WA 98040

REV DATE ISSUE/REVISION



SHEET TITI

DOOR SCHEDULE & TYPES



N.L.B. NON-LOAD BEARING

ON CENTER

N.W.C. NORMAL WEIGHT CONCRETE

OUTSIDE DIAMETER

OUTSIDE FACE

OPPOSITE HAND

OSB ORIENTED STRAND BOARD

PANEL EDGE NAIL

PROPERTY LINE

POUNDS PER SQUARE FOOT

POUNDS PER SQUARE INCH

PRESERVATIVE TREATED

POST TENSION(ED)

NUMBER

N.S. NEAR SIDE

N.T.S. NOT TO SCALE

OC ON CENTER

OPNG. OPENING

OPP. OPPOSITE

ORNT. ORIENTATE(ION)

O.W.J. OPEN WEB JOIST

PARALLEL

PRECAST

PERP. PERPENDICULAR

PLATE

PLN PLAN

PLMBG. PLUMBING

PLYWD. PLYWOOD

QTY. QUANTITY

RADIUS

RADIUS

SHFFT

SIMILAR

SQUARE

STGR. STAGGER

STIR. STIRRUP(S)

STIFF. STIFFENER(S)

STEEL

STRUC. STRUCTURAL

STRUCT. STRUCTURAL

SYMM. SYMMETRICAL

TEMP. TEMPORARY

THRD. THREADED

T.O.W. TOP OF WALL

TRANSV. TRANSVERSE

T.O.S.. TOP OF STEEL

TYP. TYPICAL

U/S UNDERSIDE

VERT. VERTICAL

VERTICAL

VERIFY IN FIELD

WIDE(WIDTH)

SUSP. SUSPENDED(TION)

T.&B. TOP AND BOTTOM

TOE NAIL

THICK(NESS)

T.O.S. TOP OF SHEATHING(SLAB)

U.N.O. UNLESS NOTED OTHERWISE

TONGUE AND GROOVE

STANDARD

SPACE(S) (ING)

REFERENCE

REFERENCE

REINF. REINFORCEMENT(ING) REQUIRED

RIGID FRAME

ROUGH OPENING

SHRINKAGE CONTROL JOINT

NO.

O.C.

O.F.

O.H.

PAR.

P/C

PL.

P.T.

REF.

STD.

STL.

T.&G.

THK.

B.O.E B.O.F BRDG. BTM. BOTTOM BTWN. CAMBER CAMBER(ED CANT CANTILEVER(ED CUBIC FOOT C.I.P. CAST IN PLACE CONSTRUCTION JOINT **CENTER LINE** CLG. CEILING CLR. CLEAR COL. COLUMN CONC. CONCRETE CONN. CONNECTION CONST. CONSTRUCTION CONT. CONTINUOS

CTSK. COUNTERSINK CTR. CENTER(ED) CUBIC YARD PENNY(NAILS DROPPED BEAM **DEFORMED BAR ANCHORS** DBL. DOUBLE DCW DEMAND CRITICAL WELD DEPT DEPARTMENT DET. **DOUGLAS FIR** DIA. DIAMETER

DIAG. DIAGONAL **DIAPHRAGM** DIM. DIMENSION **DOWN** DITTO(REPEAT DEE D.S. DRAG STRUT DWG. DRAWING(S DWL. DOWEL(S) EACH

EACH END **EACH FACE** R.S. ROUGH SAWN EXPANSION JOINT SCH. SCHEDULE ELEVATION ELEV. **ELEVATOR** SCL STRUCTURAL COMPOSITE WOOD EMBD. EMBED(MENT) SCHED. SCHEDULE SHT. EN FDGF NAII SIM. ENG. **ENGINEER** S.J. EQ. EQUAL EQPT. **EQUIPMENT** SKW. SKEW(ED) S.O.G. SLAB ON GRADE E.W. **EACH WAY** EXP. SPC. EXPANSION SPEC. SPECIFICATION(S)

EXST. **EXISTING** EXT. **EXTERIOR FABRICATION** FLUSH BEAM **FOUNDATION** FDN. FINISH FLOOR FINISH(ED) FLG. FLANGE FLR. **FLOOR** FIELD (FACE) NAIL FINISHED OPENING

FACE OF CONCRETE F.O.M. FACE OF MASONRY F.O.S. FACE OF STUD F.O.W. FACE OF WALL FRAME(ING) F.S. FAR SIDE FEET(FOOT) FIRE RETARDANT TREATED WOOD FTG.

GALVANIZE(D) GALV. GRADE BEAM GLUE LAMINATED BEAM GRD. GRADE **GWB** GYPSUM WALLBOARD GYP. GYPCRETE

HOLDOWN HOT DIPPED GALVANIZED H.D.G. HDR. HEADER HGR. HANGER HORZ. HORIZONTAL HORIZ. HORIZONTAL HEADER HIGH STRENGTH BOLT

H.S.B. HEIGHT INSIDE DIAMETER INVERT ELEVATION INSIDE FACE

WITH W/O WITHOUT W.P. W.S. WT.

WOOD W.H.S. WELDED HEADED STUDS WORK POINT WELDED STUD WFIGHT W.W.F. WELDED WIRE FABRIC

X-STG EXTRA STRONG XX-STG DOUBLE EXTRA STRONG

YD YARD

01000 - GENERAL REQUIREMENTS THE STRUCTURAL NOTES SUPPLEMENT THE PLANS AND SPECIFICATIONS. ANY DISCREPANCY FOUND BETWEEN THE DRAWINGS, NOTES, SPECIFICATIONS, SITE CONDITIONS, AND ARCHITECTURAL PLANS SHALL BE REPORTED TO THE ARCHITECT WHO SHALL CORRECT THE DISCREPANCY IN WRITING. ANY WORK COMPLETED AFTER DISCOVERY OF THE DISCREPANCY SHALL BE DONE AT THE CONTRACTOR'S RISK. REFER TO ARCHITECTURAL PLANS FOR OPENINGS, ARCHITECTURAL TREATMENTS, AND DIMENSIONS NOT SHOWN. CONSULT MECHANICAL PLANS FOR DUCTS AND PIPES ETC. NOT SHOWN.

THE CONTRACTOR SHALL PROVIDE BRACING AND SUPPORT REQUIRED FOR TEMPORARY CONSTRUCTION LOADS AND FOR STRUCTURAL COMPONENTS AS REQUIRED DURING ERECTION. BACKFILL BEHIND WALLS SHALL NOT BE PLACED UNTIL THE WALLS ARE PROPERLY SUPPORTED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL WORK INCLUDING BUT NOT LIMITED TO EXCAVATION, SHORING, AND OTHER WORK WITH ALL UTILITIES AND ADJACENT PROPERTIES. CALL THE UTILITY LOCATE SERVICE PRIOR TO ANY WORK AT 1-800-424-5555.

01001 - CODE REQUIREMENTS

ALL DESIGN AND CONSTRUCTION SHALL CONFORM TO THE 2015 INTERNATIONAL BUILDING CODE AS ADOPTED BY SEATTLE, WASHINGTON.

01100 - DESIGN LOADS DEAD LOADS:

ACTUAL WEIGHT OF MATERIALS OF CONSTRUCTION AND PERMANENT EQUIPMENT.

FLOOR LIVE LOADS: FLOORS (RESIDENTIAL) 40 PSF ROOF LIVE LOADS: 20 PSF **DECK LIVE LOAD:** 60 PSF

SNOW LOAD DESIGN DATA: Pg = 20 PSF, Pf = 20 PSF, Ce = 0.9, Is = 1.0, Ct = 1.0, 25 PSF UNIFORM

WIND DESIGN DATA: BASIC WIND SPEED 110 MPH (3-SECOND GUST) WIND IMPORTANCE FACTOR lw = 1.0WIND EXPOSURE EXPOSURE C TOPOGRAPHICAL FACTOR Kzt = 1.6INTERNAL PRESSURE COEFFICIENT GCpi = +/- 0.18COMPONENT/CLADDING WIND PRESSURE P(C) = 25 PSF

EARTHQUAKE DESIGN DATA: SEISMIC IMPORTANCE FACTOR le = 1.0OCCUPANCY CATEGORY SPECTRAL RESPONSE ACCELERATIONS SITE CLASS

Ss = 1.397 S1 = 0.538 SDS = 0.92 SD1 = 0.538 SPECTRAL RESPONSE COEFFICIENTS SEISMIC DESIGN CATEGORY WOOD LEVELS - BEARING WALL SYSTEM R = 6.5 Cs = 0.14LIGHT FRAMED PLYWOOD SHEAR WALLS

01200 - FOUNDATIONS - GEOTECHNICAL INVESTIGATION

FOUNDATION DESIGN BASED ON REPORT 20-084 DATED APRIL 9, 2020 PREPARED BY PAN GEO INC.. ALL SITE PREPARATION AND FOUNDATION CONSTRUCTION TO BE PERFORMED PER REPORT. FILLS TO BE COMPACTED TO 95% MODIFIED PROCTOR PER ASTM D-1557.

ALL FOUNDATIONS SHALL BE FOUNDED ON EITHER COMPETENT NATIVE MATERIAL OR BY OTHER MEANS AS DEFINED BY THE GEOTECHNICAL ENGINEER.

WHERE FOOTINGS ARE ALLOWED TO BE FOUNDED ON NATIVE MATERIAL BY THE GEOTECHNICAL ENGINEER, ALLOWABLE BEARING CACITY IS 3,000 PSF. 1/3 INCREASE ALLOWABLE FOR WIND OR SEISMIC

GEOTECHNICAL DESIGN PARAMETERS HAVE BEEN COORDINATED WITH PAN GEO INC. AS LISTED BELOW

DESIGN PARAMETERS FOR RETAINING WALLS WITH FLAT BACKFILL ARE AS FOLLOWS: ACTIVE EARTH PRESSURE (YIELDING) 50 PCF ACTIVE EARTH PRESSURE (AT-REST) 50 PCF 🔼

PASSIVE EARTH PRESSURE 350 PCF (ALLOWABLE - FS=1.5) COEFFICIENT OF FRICTION 0.35 (ALLOWABLE - FS=1.5) SOIL PROFILE SEISMIC SURCHARGE **UNIFORM 8H** VEHICLE SURCHARGE 2'-0" OF SOIL

ALL FOUNDATION INSTALLATIONS SHALL BE SUBJECT TO APPROVAL OF THE GEOTECHNICAL ENGINEER.

01300 - SHOP DRAWING SUBMITTAL PROCESS

SHOP DRAWINGS ARE TO BE SUBMITTED TO THE ARCHITECT AND ENGINEER OF RECORD FOR APPROVAL PRIOR TO FABRICATION. IF SHOP DRAWINGS DIFFER FROM THE APPROVED DESIGN DRAWINGS, NEW DESIGN DRAWINGS BEARING THE SEAL AND SIGNATURE OF A LICENSED STATE OF WASHINGTON STRUCTURAL ENGINEER SHALL BE SUBMITTED ALONG WITH THE SHOP DRAWINGS TO THE BUILDING OFFICIAL FOR APPROVAL PRIOR TO FABRICATION.

SHOP DRAWINGS ARE REQUIRED FOR ALL STRUCTURAL STEEL AND PROPRIETARY GUARD COMPONENTS.

01400 - INSPECTIONS AND SPECIAL INSPECTIONS THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL INSPECTIONS REQUIRED BY THE LOCAL BUILDING DEPARTMENT.

SPECIAL INSPECTIONS ARE GENERALLY NOT REQUIRED FOR GROUP R-3 OCCUPANCIES UNLESS OTHERWISE REQUIRED BY THE BUILDING OFFICIAL. HOWEVER, SPECIAL INSPECTIONS ARE REQUIRED FOR STRUCTURAL STEEL WELDING. SHEAR WALLS WITH TIGHTER NAILING THAN 4" O.C. AS WELL AS POST INSTALLED ANCHORS. REFER TO THE INSPECTION TABLES FOR FURTHER DIRECTION.

01500 - STRUCTURAL OBSERVATION STRUCTURAL OBSERVATION IS NOT REQUIRED.

01600 - QUALITY ASSURANCE REQUIREMENTS

THE QUALITY ASSURANCE PLAN SHALL BE TO VERIFY THAT THE SPECIAL INSPECTIONS NOTED IN SECTION 01400 AND THE STRUCTURAL OBSERVATION NOTED IN SECTION 01500 HAVE BEEN COMPLETED AND THAT SUPPORTING DOCUMENTATION NOTED IN SUCH SECTIONS HAS BEEN PROVIDED.

QUALITY ASSURANCE PLAN IS NOT REQUIRED FOR STRUCTURES OF LIGHT WOOD FRAMING WITH DESIGN SPECTRAL RESPONSE AT SHORT PERIODS, SDS, NOT EXCEEDING 0.50g.

QUALITY ASSURANCE PLAN IS NOT REQUIRED FOR WIND EXPOSURE B WHERE BASIC WIND SPEED IS LESS THAN 120 MPH.

SUMMARY: A QUALITY ASSURANCE PLAN IS NOT REQUIRED BY CODE FOR THIS STRUCTURE.

01700 - EXECUTION REQUIREMENTS

INSTALLATION OF ALL STRUCTURAL COMPONENTS SHALL BE AS REQUIRED PER ALL LOCAL CODES.

RECOMMENDATIONS AS NOTED IN THE GEOTECHNICAL ENGINEERING REPORT (SEE SECTION 01300)

02000: SITE CONSTRUCTION ALL SITE CONSTRUCTION SHALL BE CONSISTENT WITH THE GEOTECHNICAL ENGINEERING

AND IN SUBSEQUENT DIRECTIVES. 02100 - EXCAVATION SUPPORT AND PROTECTION

EXCAVATION FOR FOUNDATIONS SHALL BE PER PLAN DOWN TO UNDISTURBED NATIVE MATERIAL PER THE GEOTECHNICAL ENGINEERING RECOMMENDATIONS. OVER-EXCAVATED AREAS SHALL BE BACKFILLED WITH LEAN CONCRETE OR PER GEOTECHNICAL RECOMMENDATIONS AT THE CONTRACTOR'S EXPENSE.

EXCAVATION SLOPES SHALL BE SAFE AND SHALL NOT BE GREATER THAN THE LIMITS SPECIFIED BY LOCAL, STATE, AND NATIONAL SAFETY REGULATIONS.

INSTALLATION OF CONSTRUCTION SHORING, IF REQUIRED, SHALL BE PER THE SHORING DRAWINGS, NOTES, AND SPECIFICATIONS.

02200 - BACKFILL AND COMPACTION

BACKFILL SHALL NOT BE PLACED UNTIL THE REMOVAL OF FORMWORK AND OF ANY DEBRIS. BACKFILL BEHIND ALL WALLS SHALL NOT BE PLACED UNTIL THE WALLS ARE PROPERLY SUPPORTED. ALL BACKFILL MATERIAL AND PLACEMENT PROCEDURES SHALL BE CONSISTENT WITH THE GEOTECHNICAL ENGINEERING RECOMMENDATIONS.CATILEVERED BASEMENT WALLS SHALL CURE FOR A MINIMUM OF 14 DAYS PRIOR TO BACKFILL AND COMPACTION PER THE SOILS REPORT.

03000 - CAST-IN-PLACE CONCRETE CONCRETE CONSTRUCTION SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE STANDARD ACI 318-14 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE".

CEMENT AND CONCRETE SHALL CONFORM TO IBC SECTION 1903. ADMIXTURES SHALL BE APPROVED BY THE ENGINEER OF RECORD AND SHALL COMPLY WITH ACI 318-14 SECTION 3.6. CONCRETE EXPOSED TO FREEZING AND THAWING SHALL HAVE AN AIR ENTRAINING ADMIXTURE CONFORMING TO IBC SECTION 1904.2. THE USE OF WATER SOLUBLE CHLORIDE ION SHALL

CONCRETE MIX DESIGNS SHALL MEET THE FOLLOWING REQUIREMENTS (1) 28 DAY MAX. STRENGTH fc [PSI] (2) MAX. WATER / CEMENT RATIO (3) MAX. SLUMP [IN] (4) AIR ENTRAINMENT [%] (5) SPECIAL INSPECTION REQUIRED (6) MIN. 90 LB SACKS OF CEMENT (7) LOCATION AND APPLICATION.

(2) (3) (4) (5) 0.45 4+/-1 5+/-1 NO EXTERIOR SLAB ON GRADE 0.45 4+/-1 0+/-1 NO INTERIOR SLAB ON GRADE 0.50 5+/-1 0+/-1 NO 3000 FOOTINGS 3000 0.45 5+/-1 5+/-1 NO STEMS ALL OTHER CONCRETE 0.50 5+/-1 5+/-1 NO

SPECIAL INSPECTION IS NOT REQUIRED AS THE DESIGN IS BASED ON fc = 2500 PSI.

CHAMFER ALL EXPOSED CORNERS PER THE ARCHITECTURAL PLANS OR 3/4 INCH IF NOT SPECIFIED BY THE ARCHITECT.

03100 - REINFORCING STEEL

NOT BE USED.

REINFORCING STEEL DETAILING, FABRICATION, AND PLACEMENT SHALL BE PER ACI 318-14. REINFORCING STEEL SHALL MEET THE FOLLOWING REQUIREMENTS:

ASTM A-615 DEFORMED BARS GRADE 40 (fy=40 KSI) FOR #3 BARS ONLY ASTM A-615 DEFORMED BARS GRADE 60 (fy=60 KSI) FOR #4 BARS AND LARGER ASTM A-706 DEFORMED BARS GRADE 60 (fv=60 KSI) FOR ALL WELDABLE BARS ASTM A-1064 SMOOTH BAR (fy=60 KSI) FOR WELDED WIRE FABRIC

REINFORCING FOR SLABS ON GRADE SHALL BE 6X6 W1.4XW1.4 WELDED WIRE FABRIC OR FIBER MESH UNLESS NOTED OTHERWISE. PROVIDE LAP SPLICES PER THE LAP SPLICE SCHEDULE ON SHEET S6.0. REINFORCING STEEL AT ALL WALLS, SLABS, AND FOOTINGS SHALL BE CONTINUOUS AROUND CORNERS ELSE CORNER BARS SHALL BE PROVIDED.

COVER REQUIREMENTS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE

CONCRETE CAST AGAINST EARTH

ALL BAR SIZES FORMED SURFACE EXPOSED TO EARTH OR WEATHER #6 AND LARGER . #5 AND SMALLER . .1 1/2" CONCRETE NOT EXPOSED TO EARTH OR WEATHER WALLS AND JOISTS #14 AND #18 BARS . #11 BARS AND SMALLER 3/4" SLABS AND JOISTS

.1 1/2" #14 AND #18 BARS . #11 BARS AND SMALLER . . BEAMS, COLUMNS PRIMARY REINFORCEMENT 1 1/2" TIES, STIRRUPS, AND SPIRALS ... 1 1/2"

REINFORCING STEEL SHALL BE ACCURATELY PLACED AND ADEQUATELY SECURED IN PLACE PRIOR TO CONCRETE PLACEMENT. REINFORCING STEEL SHALL NOT BE FIELD BENT EXCEPT AS NOTED IN THE DESIGN DRAWINGS. WELDING OF REINFORCING STEEL SHALL NOT BE PERMITTED WITHOUT PRIOR APPROVAL OF THE ENGINEER OF RECORD EXCEPT AS NOTED ON THE DESIGN DRAWINGS.

03200 - CONCRETE WALL REINFORCING

PLACE TWO HORIZONTAL #5 BARS AT EACH FLOOR LEVEL OR TOP OF WALL ELEVATION. PROVIDE CORNER BARS TO MATCH HORIZONTAL REINFORCEMENT AT EACH WALL CORNER AND INTERSECTION PROVIDE TWO VERTICAL #5 BARS AT EACH WALL CORNER AND INTERSECTION. AT ALL WALL OPENINGS PROVIDE TWO #5 BARS OVER, UNDER, AND AT THE SIDES OF THE OPENINGS, EXTEND THE HORIZONTAL BARS THE LAP SPLICE DISTANCE PAST THE OPENING OR EXTEND AS FAR AS POSSIBLE AND HOOK. PROVIDE ONE #5 BAR BY 4'-0" LONG DIAGONALLY AT EACH CORNER OF THE WALL OPENING. ALL CONCRETE SHALL BE PLACED AND CONSOLIDATED WALLS SHALL BE REINFORCED PER SCHEDULE

| BELOW U.N.O.: | | | |
|----------------|-------------|-------------|----------|
| WALL THICKNESS | HORIZONTAL | VERTICAL | LOCATION |
| 6" | #4 AT 14"OC | #5 AT 18"OC | CENTERLI |
| 8" | #4 AT 10"OC | #5 AT 15"OC | CENTERLI |
| 10" | #4 AT 16"OC | #5 AT 18"OC | EACH FAC |
| 12" | #4 AT 12"OC | #5 AT 18"OC | EACH FAC |

05000 - STRUCTURAL STEEL

WELDING ELECTRODES

DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "AISC 360-10 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS". MATERIALS SHALL BE IN ACCORDANCE WITH THE FOLLOWING

| ١ | | | |
|---|-----------------------|--------------------|-----------|
| | STRUCTURAL W SHAPE | ASTM A-992 | Fy = 50 K |
| | S, M, AND C SHAPES | ASTM A-36 | Fy = 36 K |
| | STEEL ANGLES | ASTM A-36 | Fy = 36 K |
| | PLATE MATERIAL | ASTM A-36 | Fy = 36 K |
| | STRUCTURAL PIPE | ASTM A-53 GRADE B | Fy = 35 K |
| | STRUCTURAL HSS | ASTM A-500 GRADE B | Fy = 46 K |
| | ANCHOR RODS | ASTM F1554 | Fy = 36 K |
| | WOOD CONNECTION BOLTS | ASTM A-307 GRADE A | • |
| | | | |

ALL WELDING SHALL CONFORM TO THE AWS D1.4 "STRUCTURAL WELDING CODE". ALL WELDING SHALL BE PERFORMED BY A WASHINGTON ASSOCIATION OF BUILDING OFFICIALS (WABO) AND AMERICAN WELDING SOCIETY (AWS) CERTIFIED WELDERS. ALL COMPLETE PENETRATION (CP) WELDS SHALL BE ULTRASONICALLY TESTED. ALL FILLET WELDS SHALL BE VISUALLY INSPECTED RE: S1.3.

STRUCTURAL STEEL AND CONNECTIONS EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION IN COMPLIANCE WITH ASTM A-123. ALL FIELD WELDS EXPOSED TO WEATHER SHALL BE COATED WITH BRUSH APPLIED ZINC-RICH PAINT COMPLYING WITH ASTM A-780.

ALL STRUCTURAL STEEL TO RECEIVE ONE COAT OF PAINT (PRIME COAT). PROVIDE A MINIMUM FRY-FILM THICKNESS OF ONE MIL. PREPARE SURFACE TO MEET REQUIREMENTS OF SSPC-SP2. TOUCHUPS OF ABRASIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR. UNO. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION RELATING TO FINISH PAINT OR OTHER FINISH REQUIREMENTS.

FRAMING CONNECTORS, ACCESSORIES, AND FASTENERS AS NOTED IN THE PLANS AND DETAILS SHALL BE AS MANUFACTURED BY SIMPSON STRONG-TIE. EQUIVALENT HARDWARE MY BE USED WITH PRIOR APPROVED BY ENGINEER OF RECORD. INSTALL ALL HARDWARE PER MANUFACTURERS SPECIFICATIONS. WHERE STRAPS CONNECT TWO MEMBERS TOGETHER, PLACE HALF OF THE REQUIRED FASTENERS INTO EACH MEMBER. PROVIDE SOILD BLOCKING AT ALL BEARING POINTS. SEE SECTION 06100 FOR FASTENER REQUIREMENTS AT TREATED LUMBER. TYPICAL NAILING NOT SHOWN PER PLAN, DETAIL, OR SCHEDULE SHALL CONFORM TO FASTENING SCHEDULE PER IBC TABLE 2304.10.1 OR TO THE FASTENING SCHEDULE ON

NAILS SHALL BE COMMON UNLESS NOTED OTHERWISE COMMON NAIL DIMENSIONS ARE AS FOLLOWS:

NAIL SIZE DIAMETER LENGTH 0.131" 2 1/2" 10d 0.148" 12d 3 1/4" 0.148" 0.162" 3 1/2"

UNLESS NOTED OTHERWISE PER SHEARWALL SCHEDULE OR PLANS. ANCHOR BOLTS AT SILL PLATES SHALL BE 5/8 INCH DIAMETER WITH 7 INCHES MINIMUM EMBEDMENT INTO CONCRETE AND SHALL BE SPACED NOT MORE THAN 4 FEET APART. THERE SHALL BE A MINIMUM OF TWO BOLTS PER SILL PIECE WITH ONE BOLT LOCATED NOT MORE THAN 12 INCHES NOR LESS THAN 4 1/2 INCHES FROM EACH END OF THE PIECE. A 3"x3"x1/4" PLATE WASHER SHALL BE PROVIDED FOR ALL ANCHOR BOLTS (COUNTERSINK PLATE WASHERS SHALL NOT BE ALLOWED).

SAWN LUMBER SHALL CONFORM TO WEST COAST LUMBER INSPECTION BUREAU (WCLIB) "GRADING AND DRESSING RULES" NO. 17 LATEST EDITION. SAWN LUMBER SHALL BE S4S AND SURFACED DRIED. 19 PERCENT MAXIMUM MOISTURE CONTENT. PROTECT LUMBER FROM WEATHER AND PROVIDE FURTHER DRYING OF ASSEMBLED FRAMING TO MINIMIZE WOOD SHRINKAGE POTENTIAL. ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESERVATIVE TREATED U.N.O. PER PLAN. LUMBER SPECIES, GRADE, AND PROPERTIES FOR EACH USE/LOCATION SHALL BE AS FOLLOWS

| USE/LOCATION | SPECIES | GRADE | Fb (PSI) | Fv (PSI) | Fcp (PSI) | Fc (PSI) | E (PSI) |
|--|--|----------------|-------------|-------------|--------------|--------------|----------------|
| WALL STUDS/BLOCKING 2X, 3X 4" WIDE | HEM-FIR | STUD | 675 | 150 | 405 | 800 | 1.2E6 |
| 2X, 3X 6" & WIDER | HEM-FIR | NO. 2 | 850 | 150 | 405 | 1300 | 1.3E6 |
| WALL PLATES 2X4, 3X4 2X6, 3X6 | HEM-FIR HEM-FIR | STUD NO. 2 | 675 850 | 150 150 | 405 405 | 800 1300 | 1.2E6 1.3E6 |
| JOISTS 2X, 3X | HEM-FIR | NO. 2 | 850 | 150 | 405 | 1300 | 1.3E6 |
| | DOUGLAS FIR-LARCH DOUGLAS FIR-LARCH | NO. 2 NO. 1 | 900 1000 | | 625 625 | 1350 1500 | 1.6E6 1.7E6 |
| | DOUGLAS FIR-LARCH DOUGLAS FIR-LARCH | NO. 2 NO. 1 | 900 1200 | | 625 625 | 1350 1000 | 1.6E6 1.6E6 |

06102: FRAMING NOTES FRAMING CONNECTORS, ACCESSORIES, AND FASTENERS AS NOTED IN THE PLANS AND DETAILS SHALL BE AS MANUFACTURED BY SIMPSON STRONG-TIE. EQUIVALENT HARDWARE MAY BE USED WITH PRIOR APPROVAL BY ENGINEER OF RECORD. INSTALL ALL HARDWARE PER MANUFACTURERS' SPECIFICATIONS. WHERE STRAPS CONNECT TWO MEMBERS TOGETHER, PLACE HALF OF THE REQUIRED FASTENERS INTO EACH MEMBER, PROVIDE SOLID BLOCKING AT ALL BEARING POINTS, SEE SECTION 06200 FOR FASTENER REQUIREMENTS AT TREATED LUMBER. TYPICAL NAILING NOT SHOWN PER PLAN. DETAIL. OR SCHEDULE SHALL CONFORM TO FASTENING SCHEDULE PER IBC TABLE 2304.10.1 OR TO THE FASTENING SCHEDULE ON SHEET S9.0.

NAILS SHALL BE COMMON UNLESS NOTED OTHERWISE COMMON NAIL DIMENSIONS ARE AS FOLLOWS:

| NAIL SIZE | DIAMETER | LENG |
|-----------|----------|------|
| 8d | 0.131" | 2.5' |
| - | | |
| 10d | 0.148" | 3.0' |
| 12d | 0.148" | 3.2 |
| 16d | 0.162" | 3.5' |
| | | |

U.N.O. PER PLAN/SCHEDULE:

UNLESS NOTED OTHERWISE PER SHEARWALL SCHEDULE OR PLANS, ANCHOR BOLTS AT SILL PLATES SHALL BE 5/8" DIAMETER WITH 7" MINIMUM EMBEDMENT INTO CONCRETE AND SHALL BE SPACED NOT MORE THAN 4 FEET APART. THERE SHALL BE A MINIMUM OF TWO BOLTS PER SILL PIECE WITH ONE BOLT LOCATED NOT MORE THAN 12" NOR LESS THAN 4.5" FROM EACH END OF THE PIECE. A 3"X3"X0.229" PLATE WASHER SHALL BE PROVIDED FOR ALL ANCHOR BOLTS (DO NOT COUNTER-SINK PLATE WASHERS). A 13/16" X 1 3/4" DIAGONAL SLOTTED HOLE IN THE 3" X 3" PLATE WASHER IS ALLOWED WITH A STANDARD CUT WASHER.

06200 - PRESERVATIVE TREATED WOOD PRODUCTS

PRESERVATIVE TREATED WOOD SHALL BE REQUIRED FOR ALL WOOD THAT FORMS THE STRUCTURAL SUPPORT OF THE BUILDING, BALCONIES PORCHES, OR SIMILAR PERMANENT BUILDING APPURTENANCES THAT ARE EXPOSED TO THE WEATHER WITHOUT ADEQUATE PROTECTION FROM A ROOF. EAVE, OVERHANG OR OTHER COVERING TO PREVENT MOISTURE OR WATER ACCUMULATION AT THE SURFACE OR AT JOINTS BETWEEN MEMBERS.

ALL WOOD INSTALLED ABOVE GROUND AND RESTING ON AN EXTERIOR CONCRETE OR MASONRY FOUNDATION WALL LESS THAN 8 INCHES FROM EXPOSED EARTH.

POSTS OR COLUMNS SUPPORTING PERMANENT STRUCTURES AND SUPPORTED BY A CONCRETE SLAB OR FOOTING THAT IS IN DIRECT CONTACT WITH THE EARTH. EXCEPT;

 IF LOCATED IN BASEMENTS ON A CONCRETE PIER OR METAL PEDESTAL 1 INCH ABOVE THE SLAB AND SEPARATED THEREFROM BY AN IMPERVIOUS MOISTURE BARRIER

IF IN AN ENCLOSED CRAWL SPACE OR AN UNEXCAVATED AREA WITHIN THE BUILDING PERIPHERY AND SUPPORTED BY A CONCRETE PIER OR PEDESTAL MORE THAN 8 INCHES FROM EXPOSED GROUND AND SEPARATED THEREFROM BY AN IMPERVIOUS MOISTURE BARRIER.

SLEEPERS AND SILLS ON A CONCRETE SLAB ON GRADE THAT DOES NOT HAVE AN IMPERVIOUS MOISTURE BARRIER SEPARATION WITH EXPOSED EARTH. LEDGERS AND FURRING ATTACHED DIRECTLY TO THE INTERIOR OF EXTERIOR CONCRETE OR

MASONRY WALLS BELOW GRADE. PRESERVATIVE TREATMENT SHALL BE PER AMERICAN WOOD PRESERVERS' ASSOCIATION (AWPA)

SPECIFICATION C2 AND C9 OR APPLICABLE STANDARDS. ALL FASTENERS (NAILS, BOLTS, ANCHOR BOLTS, PLATES, HANGERS, ETC.) IN CONTACT WITH TREATED LUMBER SHALL BE CORROSION RESISTANT G-185 HOT DIPPED GALVANIZED PER ASTM

06300 - JOIST AND BEAM HANGERS

A153 OR STAINLESS STEEL.

JOIST AND BEAM HANGERS AS NOTED IN THE PLANS SHALL BE AS MANUFACTURED BY SIMPSON STRONG-TIE. EQUIVALENT HARDWARE MAY BE USED WITH PRIOR APPROVAL BY ENGINEER OF RECORD. JOIST AND BEAM HANGERS SHALL BE INSTALLED PER MANUFACTURERS' SPECIFICATIONS AND SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE PER PLANS OR DETAILS:

MEMBER SIZE LUS OR HUS SERIES TO MATCH LUMBER SIZE SAWN LUMBER WHERE NOT NOTED SPECIFICALLY BELOW I JOIST-FLOOR 11 7/8" TJI 110 IUS 1.81 / 11.88 W/(10) 10d (0.148"DIA. x 3") FACE W/WEB STIFFENERS ADD (2) 0.148"DIA. x 1 1/2" JOIST IN TRIANGLE HOLES. PROVIDE 0.148"DIA. x 3" CLINCHED NAILS AT 1 1/2" LSL RIM BOARDS. MIN. WEB STIFFENER SIZE (EACH SIDE OF WEB) 5/8" x 2 5/16" W/(3) 0.113" DIA. x 2 1/2"

I JOIST-SLOPING ROOF 11 7/8" TJI 110 LSSU125 W/(10) 10d FACE; W/(7) 10d x 1 1/2" JOIST MIN. WEB STIFFENER SIZE (EACH SIDE OF WEB) 5/8" x 2 5/16" W/(3) 0.113" DIA. x 2 1/2"

GLUED LAMINATED BEAMS (H = BEAM DEPTH TYPICAL) (DF CAPACITY / HF CAPACITY) 3 1/8" LGU3.25-SDS W/(16) SDS 1/4x2 1/2" FACE, (12) SDS 1/4x2 1/2" JOIST (6720 / 4840) 3 1/2" HGU3.63-SDS W/(36) SDS 1/4x2 1/2" FACE, (24) SDS 1/4x2 1/2" JOIST (14145 / 10185) 5 1/8" HGU5.25-SDS W/(36) SDS 1/4x2 1/2" FACE, (24) SDS 1/4x2 1/2" JOIST (14145 / 10185) 5 1/4" HHGU5.50-SDS W/(44) SDS 1/4x2 1/2" FACE, (28) SDS 1/4x2 1/2" JOIST (17845 / 12850) 5 1/2" HHGU5.62-SDS W/(44) SDS 1/4x2 1/2" FACE, (28) SDS 1/4x2 1/2" JOIST (17845 / 12850) 6 3/4" HHGU7.00-SDS W/(44) SDS 1/4x2 1/2" FACE, (28) SDS 1/4x2 1/2" JOIST (17845 / 12850) 8 3/4" HHGU9.00-SDS W/(44) SDS 1/4x2 1/2" FACE, (28) SDS 1/4x2 1/2" JOIST (17845 / 12850) 10 3/4" HHGU11.00-SDS W/(44) SDS 1/4x2 1/2" FACE, (28) SDS 1/4x2 1/2" JOIST (18480 / 13305)

1 1/2" x 11 7/8" MIU1.56/11 W/(20) 16d FACE, (2) 10d x 1 1/2" JOIST (2880)(2) 1 3/4" x 11 7/8" HHUS410 W/(30) 16d FACE, (10) 16d JOIST (5635)HHUS410 W/(30) 16d JOIST 3 1/2" x 11 7/8" (5635)

PROVIDE HUC HANGER FOR BEAM SIZE SPECIFIED FOR END OF BEAM CONDITIONS.

06400 - SHRINKAGE OF WOOD FRAMING SHRINKAGE IN WOOD FRAMING IS DUE TO LOSS OF MOISTURE CONTENT AND TO COMPRESSION OF ASSEMBLIES OF WOOD COMPONENTS. PLUMBING, ELECTRICAL, AND MECHANICAL SYSTEMS AS WELL AS EXTERIOR FINISHES SHALL BE DESIGNED AND BUILT TO ACCOMMODATE 1/4 INCH PER FLOOR WOOD SHRINKAGE. THE USE OF KILN DRIED LUMBER AND PROVIDING A DRYING PROCESS TO THE FRAMING MEMBERS PRIOR TO APPLICATION OF FINISHES WILL HELP CONTROL BUT WILL NOT ELIMINATE SHRINKAGE. 06500 - WOOD SHEATHING

STRUCTURAL WOOD SHEATHING PANELS SHALL HAVE APA GRADE TRADEMARK OF THE AMERICAN PLYWOOD ASSOCIATION. WOOD SHEATHING PANELS SHALL BE C-D INT APA WITH EXTERIOR GLUE (CDX). ORIENTED STRAND BOARD (OSB) PANELS SHALL BE EXPOSURE 1. PANELS SHALL HAVE THE FOLLOWING THICKNESS, SPAN RATING, AND FASTENING UNLESS NOTED OTHERWISE PER PLAN:

EDGE FIELD NAILS NAILS ROOF: 5/8" 40/20 C-D APA CDX 8d AT 6" 8d AT 12" FLOOR: 3/4" 48/24 C-D T&G 10d AT 6" 10d AT 12" SHEARWALL: 7/16" C-D EXTERIOR GLUE SEE SCHEDULE SHEET S1.1 EXTERIOR WALL: 7/16" D-D EXTERIOR GLUE 10d AT 6" 10d AT 12"

ALL ROOF SHEATHING PANELS SHALL BE INSTALLED FACE GRAIN PERPENDICULAR TO SUPPORTS AND IN A STAGGERED PATTERN UNLESS NOTED OTHERWISE PER PLAN. BLOCKING AT INTERMEDIATE FLOOR AND ROOF SHEATHING JOINTS SHALL NOT BE REQUIRED UNLESS NOTED OTHERWISE PER PLAN. SHEARWALL SHEATHING SHALL BE BLOCKED AT ALL EDGES WITH 2X OR 3X FRAMING PER SHEARWALL SCHEDULE.

06620 - STRUCTURAL GLUED LAMINATED TIMBER

GLUED-LAMINATED MEMBERS SHALL HAVE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (AITC) IDENTIFICATION MARK. EXPOSED MEMBERS SHALL RECEIVE ONE COAT OF END SEALER APPLIED IMMEDIATELY AFTER TRIMMING IN EITHER SHOP OR FIELD. DESIGN MATERIAL PROPERTIES SHALL BE AS FOLLOWS:

| | USE | COMBINATION SYMBOL | SPECIES | CAMBER |
|-----------------------------------|------------------|--------------------|---------|----------|
| | SIMPLE SPAN BEAM | 24F-V4 | DF/DF | STANDARD |
| | CONTINUOUS BEAM | 24F-V8 | DF/DF | ZERO |
| | CANTII EVER BEAM | 24F-V8 | DE/DE | ZERO |
| CANTILEVER BEAM 24F-V8 DF/DF ZERO | CANTILEVER BEAM | 24F-V8 | DF/DF | ZERO |

UNEXPOSED GLUED-LAMINATED TIMBER SHALL BE INDUSTRIAL GRADE. TYPICAL, UNLESS NOTED OTHERWISE. EXPOSED GLUED LAMINATED TIMBER SHALL BE APPEARANCE CLASS PER ARCHITECT.

06630 - STRUCTURAL COMPOSITE LUMBER (SCL)

STRUCTURAL COMPOSITE LUMBER SHALL CONFORM TO ALL PERTINENT PROVISIONS OF ASTM D5456 AND SHALL BE THE SIZE AND TYPE SHOWN ON THE DRAWINGS AS MANUFACTURED BY ILEVEL TRUS JOIST OR APPROVED FOUAL, STORAGE, FRECTION, AND INSTALLATION SHALL BE PER MANUFACTURER SPECIFICATIONS. ALL MEMBERS SHALL NOT HAVE NOTCHES OR DRILLED HOLES WITHOUT PRIOR ENGINEER OF RECORD APPROVAL.

ALLAOWABLE DESIGN MATERIAL PROPERTIES SHALL BE AS FOLLOWS (ALL UNITS ARE IN PSI):

| THE TOWN DEED BESTON WITH ENWIET NOT ENTIRES OF THE BETTO TO CLOW O (THE ONLY OF | | | 11107111 | .L IIV 1 01) | |
|--|------|-----|----------|--------------|--------|
| ORIENTATION | Fb | Fv | Fc(perp) | Fc | E |
| TIMBERSTRAND LAMINATED STRAND LUMBER (LSL) COLUMN | 1700 | 400 | 680 | 1400 | 1.3E6 |
| PLANK | 1900 | 150 | 435 | 1400 | 1.3E6 |
| BEAM | 2325 | 310 | 800 | 2050 | 1.55E6 |
| RIM | 2325 | 310 | 800 | 2050 | 1.55E6 |
| MICROLAM LAMINATED VENEER LUMBER (LVL) | | | | | |
| BEAM | 2600 | NA | NA | 2500 | 1.9E6 |
| PARALLAM PARALLEL STRAND LUMBER (PSL) COLUMN | 2400 | NA | NA | 2500 | 1.8E6 |
| BEAM | 2900 | 290 | 750 | 2900 | 2.0E6 |
| | | | | | |

06640 - PREFABRICATED PLYWOOD WEB JOISTS

PREFABRICATED PLYWOOD WEB JOISTS SHALL BE THE SIZE AND TYPE SHOWN ON THE DRAWINGS AS MANUFACTURED BY TRUS-JOIST OR APPROVED EQUAL. STORAGE, ERECTION, AND INSTALLATION SHALL BE PER MANUFACTURER SPECIFICATIONS. JOIST FLANGES SHALL NOT BE CUT. DRILLED HOLES IN WEB SHALL BE PER MANUFACTURER REQUIREMENTS. DESIGN LOADING AND DEFLECTION CRITERIA SHALL BE AS FOLLOWS:

TOP CHORD LIVE LOAD SEE LIVE LOADS IN SECTION 01100 TOP CHORD DEAD LOAD 12 PSF + (14 PSF GYPCRETE) BOTTOM CHORD DEAD LOAD 6 PSF SEE MECHANICAL PLANS MECHANICAL LOADS LIVE LOAD DEFLECTION

08100 - EPOXY ADHESIVE ANCHORS

CONCRETE EPOXY SPECIFIED IN THE DRAWINGS SHALL BE SIMPSON STRONG-TIE SET-XP EPOXY ADHESIVE. ANCHOR ROD. THREADED ROD. OR REINFORCING DIAMETER AND EMBEDMENT PER PLAN. INSTALLATION PER ESR-2508.

08200 - EXPANSION ANCHORS

EXPANSION ANCHORS SPECIFIED IN THE DRAWINGS SHALL BE SIMPSON STRONG-TIE STRONG-BOLT WEDGE ANCHOR. ANCHOR DIAMETER AND EMBEDMENT PER PLAN. INSTALLATION PER SECTION 4.3 OF ESR-1771.

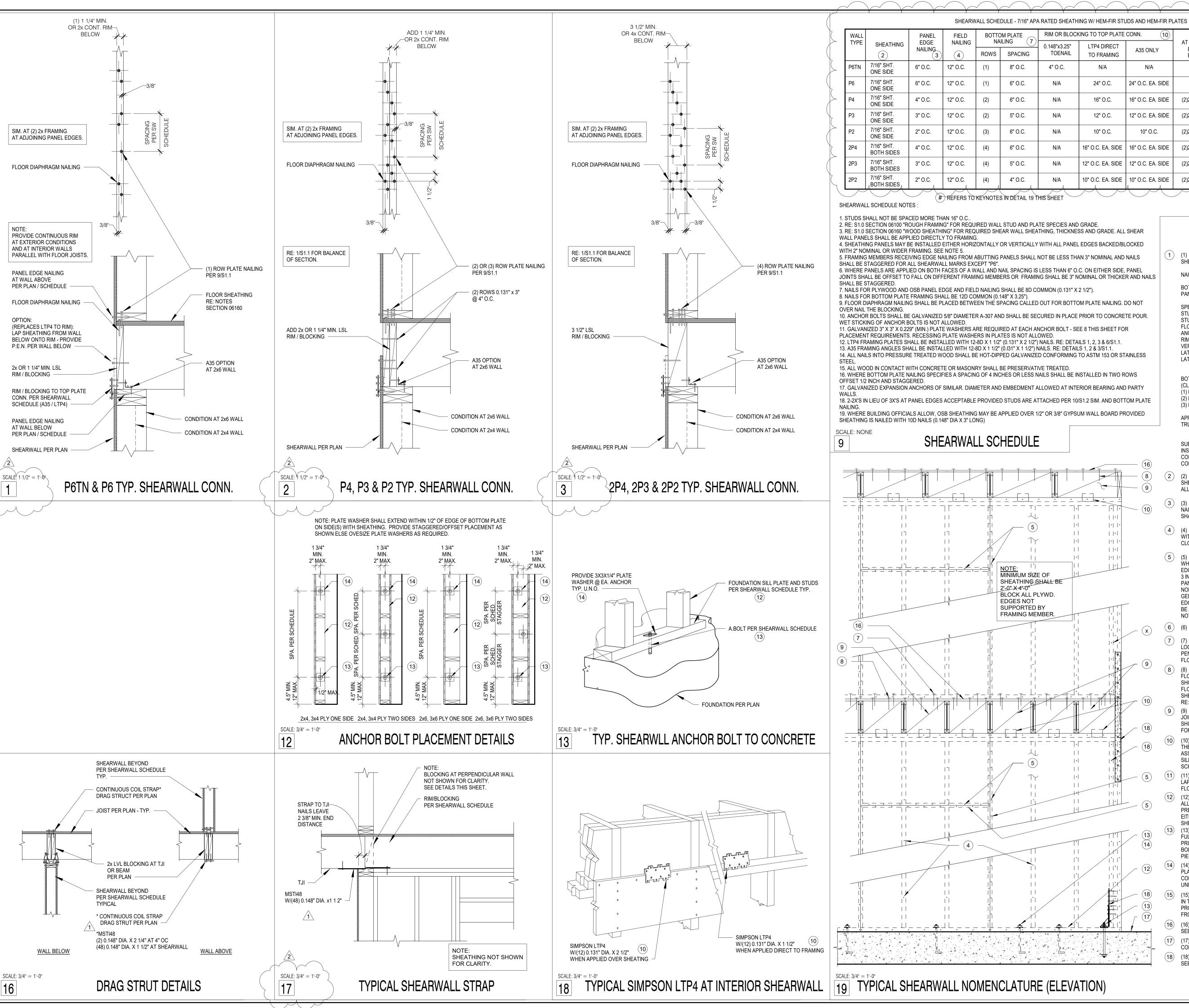
08300 - SCREW ANCHORS

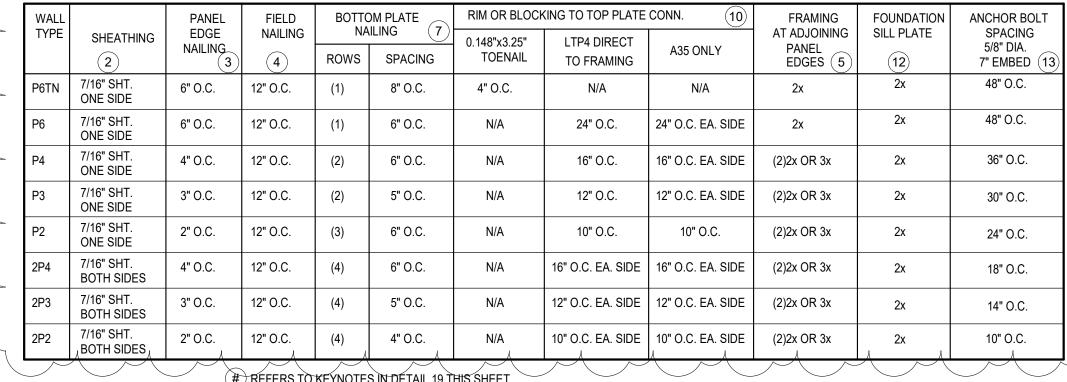
CONCRETE SCREW ANCHORS SPECIFIED IN THE DRAWINGS SHALL BE SIMPSON STRONG-TIE TITEN HD. ANCHOR DIAMETER AND EMBEDMENT PER PLAN. INSTALLATION PER ESR-2713.

STRUCTURAL DRAWING LIST

| SHEET | DESCRIPTION | Rev | Rev Date |
|-------|---------------------------------|-----|------------|
| S1.0 | Structural Notes | 1 | 01.08.2021 |
| S1.1 | Shearwall Schedule and Details | 2 | 03.16.2021 |
| S1.2 | Holddown Schedule and Details | 1 | 01.08.2021 |
| S1.3 | Special Inspection | 2 | 03.16.2021 |
| S2.0 | Basement Level Foundation Plan | 2 | 03.16.2021 |
| S2.1 | Level 1 Framing - Fdn Plan | 2 | 03.16.2021 |
| S2.2 | Level 2 Framing Plan - Low Roof | 2 | 03.16.2021 |
| S2.3 | High Roof Framing Plan | 2 | 03.16.2021 |
| S6.0 | Typical Concrete Details | 1 | 01.08.2021 |
| S6.1 | Typical Concrete Details | 2 | 03.16.2021 |
| S8.0 | Steel Framing Details | 2 | 03.16.2021 |
| S8.1 | Steel Framing Details | 2 | 03.16.2021 |
| S9.0 | Typical Wood Framing Details | 2 | 03.16.2021 |
| S9.1 | Floor TJI Wood Framing Details | 2 | 03.16.2021 |
| S10.0 | Steel Framing Details | 2 | 03.16.2021 |
| S10.1 | Steel Stair Component Details | 2 | 03.16.2021 |
| S10.3 | Ordinary Moment Frame | 2 | 03.16.2021 |
| S10.4 | Ordinary Moment Frame | 1 | 01.08.2021 |
| S10.5 | Wood Stair Component Details | | |







2. RE: S1.0 SECTION 06100 "ROUGH FRAMING" FOR REQUIRED WALL STUD AND PLATE SPECIES AND GRADE. 3. RE: S1.0 SECTION 06160 "WOOD SHEATHING" FOR REQUIRED SHEAR WALL SHEATHING, THICKNESS AND GRADE. ALL SHEAR

4. SHEATHING PANELS MAY BE INSTALLED EITHER HORIZONTALLY OR VERTICALLY WITH ALL PANEL EDGES BACKED/BLOCKED

6. WHERE PANELS ARE APPLIED ON BOTH FACES OF A WALL AND NAIL SPACING IS LESS THAN 6" O.C. ON EITHER SIDE, PANEL JOINTS SHALL BE OFFSET TO FALL ON DIFFERENT FRAMING MEMBERS OR FRAMING SHALL BE 3" NOMINAL OR THICKER AND NAILS

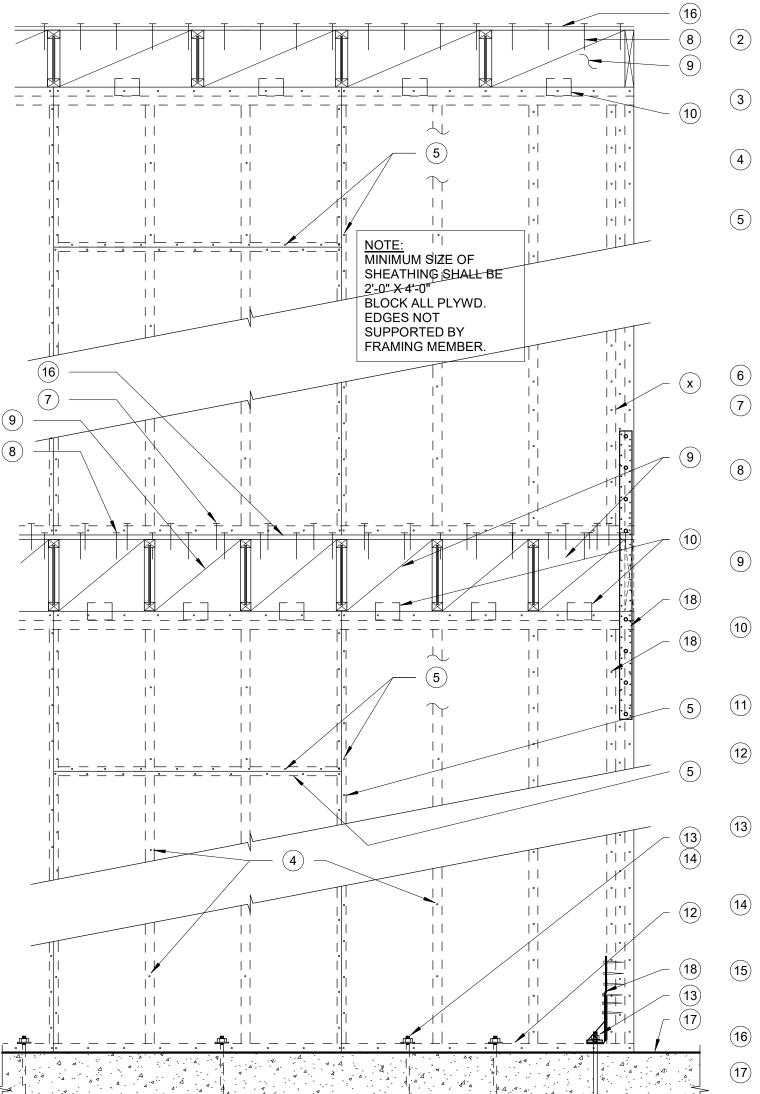
NAILS FOR PLYWOOD AND OSB PANEL EDGE AND FIELD NAILING SHALL BE 8D COMMON (0.131" X 2 1/2").

9. FLOOR DIAPHRAGM NAILING SHALL BE PLACED BETWEEN THE SPACING CALLED OUT FOR BOTTOM PLATE NAILING. DO NOT 10. ANCHOR BOLTS SHALL BE GALVANIZED 5/8" DIAMETER A-307 AND SHALL BE SECURED IN PLACE PRIOR TO CONCRETE POUR.

11. GALVANIZED 3" X 3" X 0.229" (MIN.) PLATE WASHERS ARE REQUIRED AT EACH ANCHOR BOLT - SEE 8 THIS SHEET FOR 12. LTP4 FRAMING PLATES SHALL BE INSTALLED WITH 12-8D X 1 1/2" (0.131" X 2 1/2") NAILS. RE: DETAILS 1, 2, 3 & 6/S1.1. 13. A35 FRAMING ANGLES SHALL BE INSTALLED WITH 12-8D X 1 1/2" (0.131" X 1 1/2") NAILS. RE: DETAILS 1, 2 & 3/S1.1.

16. WHERE BOTTOM PLATE NAILING SPECIFIES A SPACING OF 4 INCHES OR LESS NAILS SHALL BE INSTALLED IN TWO ROWS

18. 2-2X'S IN LIEU OF 3X'S AT PANEL EDGES ACCEPTABLE PROVIDED STUDS ARE ATTACHED PER 10/S1.2 SIM. AND BOTTOM PLATE 19. WHERE BUILDING OFFICIALS ALLOW, OSB SHEATHING MAY BE APPLIED OVER 1/2" OR 3/8" GYPSUM WALL BOARD PROVIDED



SHEATHING: 15/32" CD-CC SHEATHING APPLIED DIRECTLY TO FRAMING

USE LENGTH DIA. BOTTOM PLATE/FRAMING 3 1/4" X 0.148" PANEL EDGE NAILING 2 3/8" X 0.148"

SPECIAL INSPECTION: PER JURISDICTION 16"O.C. MAX STUDS AND PLATE: HEM-FIR #2 OR BETTER FLOOR THICKNESS: 23/32"

TJ-STRAND

RIM/BLOCKING: 0.148" DIA. NAILS AT 4" O.C./SG=0.50 VERTICAL LOAD TRANSFER CAPACITY3300 LB./FT. LATERAL LOAD TRANSFER CAPACITY (1.25") 600 LB./FT. LATERAL LOAD TRANSFER CAPACITY (3.50") 1200 LB./FT.

BOTTOM PLATE NAILING NO. PIECES/THICKNESS (CLOSEST SPACING) (1) ROWS 0.148" DIA. AT 4" O.C.(1) / 1.25" 2) ROWS 0.148" DIA. AT 4" O.C.(1) / 1.75" (3) ROWS 0.148" DIA. AT 4" O.C.(1) / 3.50"

TRUS JOIST ER-4979 TIMBERSTRAND LSL 2.0E, PARALLAM PSL 2.0E

SUBSTITUTIONS TO ABOVE REQUIRE ENGINEER OF RECORD APPROVAL PRIOR TO INSTALLATION. SUBMIT DOCUMENTATION BY A CODE APPROVED AGENCY. CONFIRMING THE REQUIRED CAPACITIES AND MINIMUM NAIL SPACING FOR THE CONDITIONS DESCRIBED.

SHEATHING PANELS MAY BE INSTALLED EITHER VERTICALLY OR HORIZONTALLY. ALL PANEL EDGES SHALL BE FASTENED TO STUDS OR BLOCKING.

(3) <u>PANEL EDGE NAILING:</u>
NAILING AT ALL OUTER EDGES OF SHEATHING PANELS IN SHEARWALLS SHALL BE FASTENED PER THE SHEARWALL SCHEDULE.

WITHIN THE FIELD OF THE PANEL, AT FRAMING MEMBERS, THE PANELS ARE LESS CLOSELY FASTENED.

(5) FRAMING AT ADJOINING PANEL EDGES EDGE NAILING FROM EACH PANEL IS TO BE STAGGERED. SOME WALLS REQUIRE

3 INCH NOMINAL FRAMING MEMBER (EITHER A STUD OR BLOCKING) AT ADJOINING PANEL EDGES (SEE SHEARWALL SCHEDULE FOR WALL TYPES REQUIRING 3 INCH NOMINAL FRAMING MEMBERS AT ADJOINING PANEL EDGES). DOUBLED STUDS ARE EDGE LANDS ON A FRAMING MEMBER, A 2 INCH NOMINAL FRAMING MEMBER SHALI BE ACCEPTABLE (AT ENDS OF WALLS FOR EXAMPLE). BLOCK ALL PLYWOOD EDGES

LOCATE THE NAILING THROUGH THE BOTTOM PLATE SO AS TO FULLY PENETRATE THE SOLID BLOCKING OR CONTINUOUS RIM BENEATH THE FLOOR SHEATHING, SPACED AS PER THE SHEARWALL SCHEDULE.

FLOOR DIAPHRAGM NAILING SHALL BE INSTALLED BETWEEN THE SPACING SHOWN FOR BOTTOM PLATE NAILING. LOCATE ADJOINING PANEL EDGES OF FLOOR SHEATHING AWAY FROM SHEARWALLS. FIELD NAILING OF FLOOR SHEATHING MAY BE OMITTED AT SHEARWALL BOTTOM PLATE NAILING.

JOIN ADJACENT RIMS AND BLOCKING WITH FACE NAILING AS SPECIFIED ABOVE. SHIM WITH FULL HEIGHT SHIMS, ADJUST FACE NAIL LENGTHS. REFER TO PLANS FOR ADDITIONAL SEISMIC CONNECTIONS AT THE FLOOR OR ROOF LEVEL.

(10) RIM / BLOCKING TO TOP PLATE CONNECTION ASSEMBLY SHALL BE CONNECTED TO THE DOUBLE TOP PLATE OR FOUNDATION SILL PLATE WITH APPROVED CONNECTORS AND SPACED PER THE SHEARWALL

(11) <u>DOUBLE TOP PLATE:</u> LAP AND SPLICE - SEE PLANS FOR ADDITIONAL SEISMIC CONNECTIONS AT THE FLOOR OR ROOF LEVEL

(12) FOUNDATION SILL PLATE ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESERVATIVE TREATED. THE FOUNDATION SILL PLATE SHALL BE

EITHER 2 INCH NOMINAL OR 3 INCH NOMINAL DEPENDING ON THE

FULL DIAMETER ANCHOR BOLTS, ASTM A-307 SHALL BE SECURED IN PLACE PRIOR TO PLACING CONCRETE. MINIMUM EMBEDMENT IS 7 INCHES. MIN. (2) BOLTS PER PIECE OF PLATE, W/(1) BOLT NOT MORE THAN 12" FROM END OF

PLATE WASHERS SHALL BE REQUIRED FOR FOUNDATION SILL PLATE CONNECTIONS, 3" X 3" X 1/4" MINIMUM. DO NOT RECESS BOLTS IN SILL PLATE

UNLESS SPECIFICALLY DETAILED ELSEWHERE. (15) SQUASH BLOCKS: IN THE FLOOR CAVITY OF PLATFORM FRAMING POST LOADS SHALL BE

PROVIDED WITH ADDITIONAL STIFFENERS EQUAL TO THE POST SIZE FROM ABOVE THAT CONTINUES THROUGH THE FLOOR.

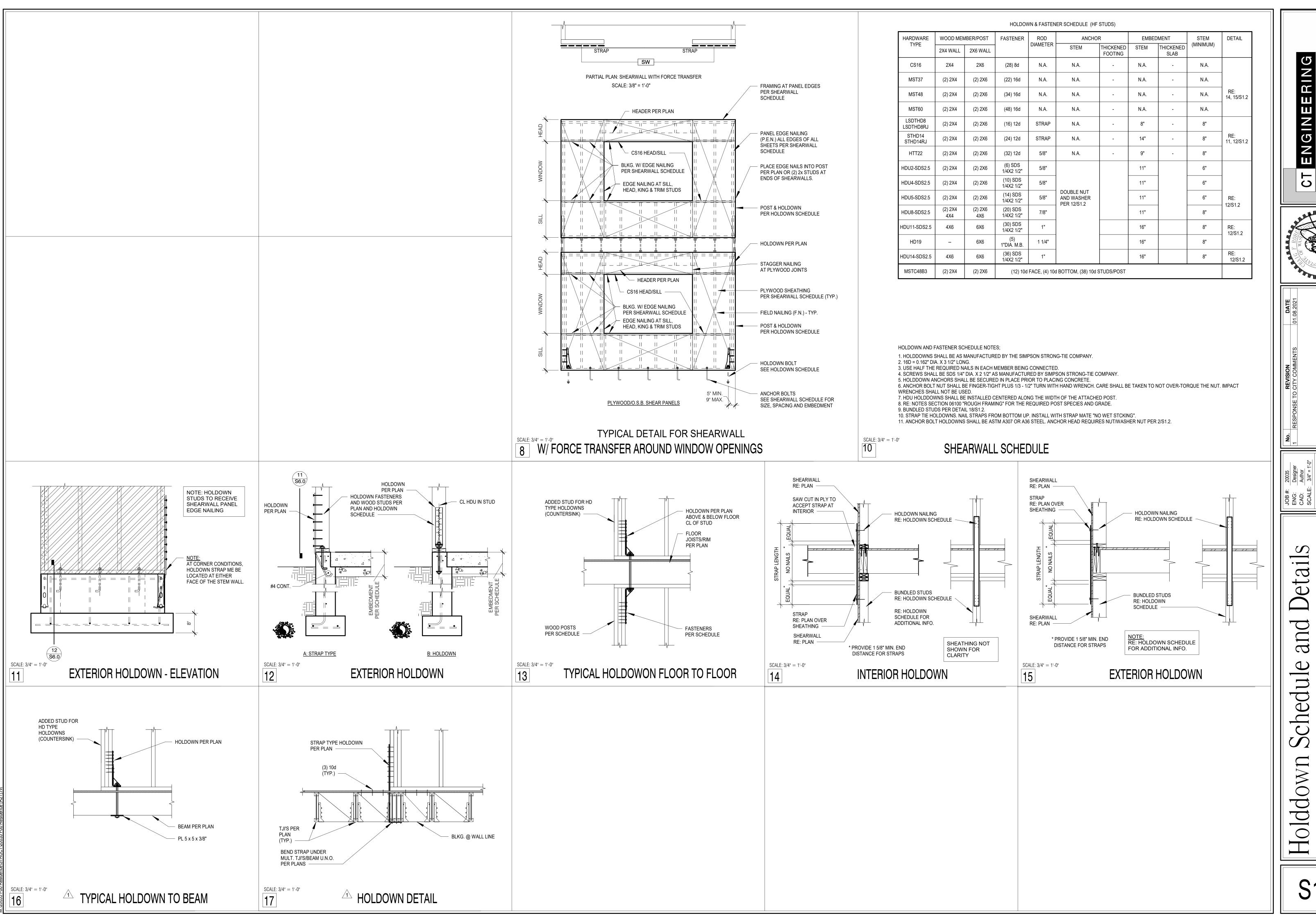
SEE (1) FOR SHEARWALL, FLOOR AND ROOF DIAPHRAGM THICKNESS. (17) CONCRETE BASE:

CONCRETE FOUNDATION OR BASE.

SEE SHEET S1.2 FOR HOLDOWN DETAILS AND ADDITIONAL STUDS REQUIRED.

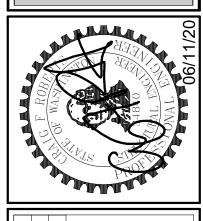
•

C 0 C 0 \bigcirc \mathcal{C}

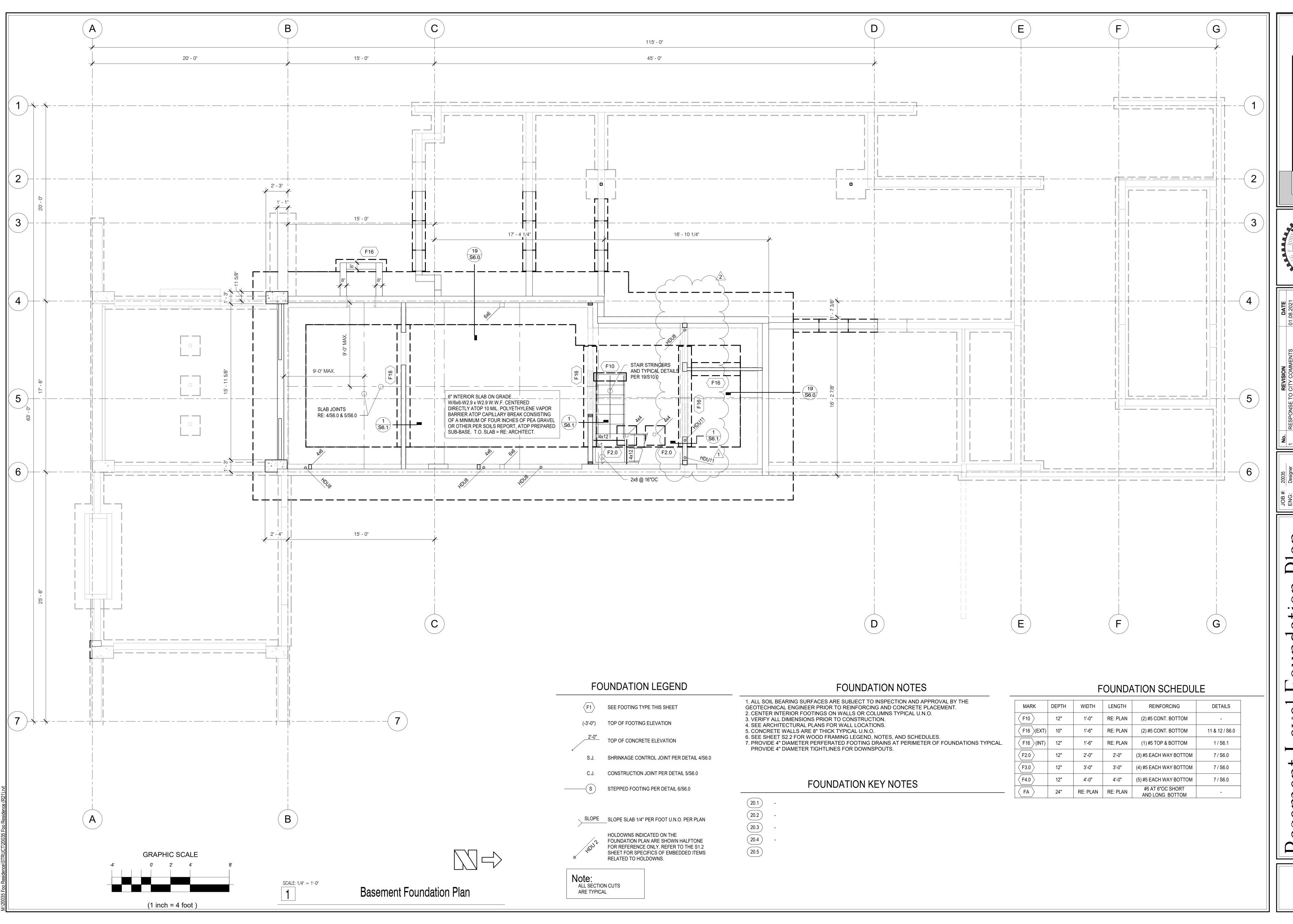


Q et and Schedule Holddown

S1.2

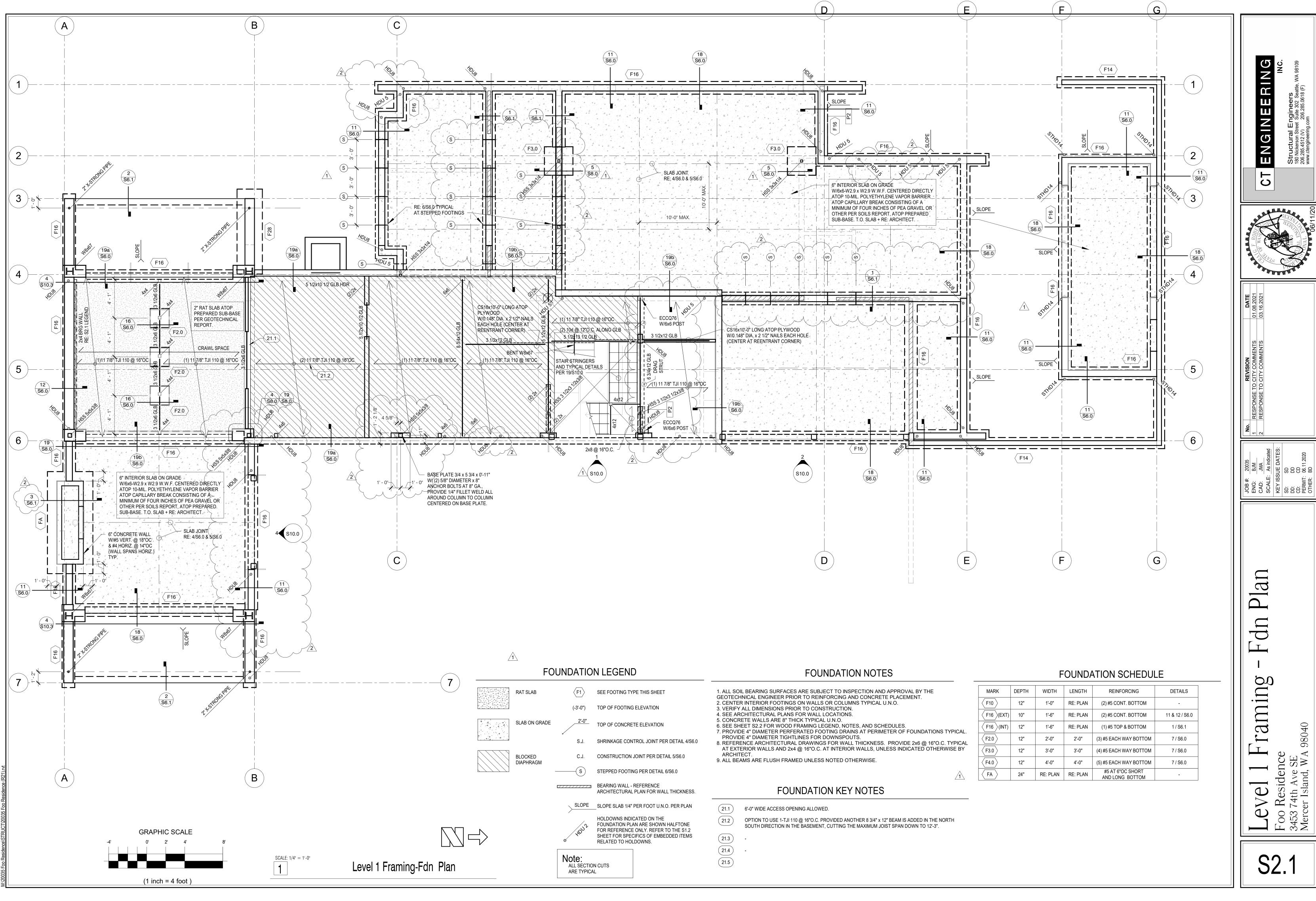


• 0

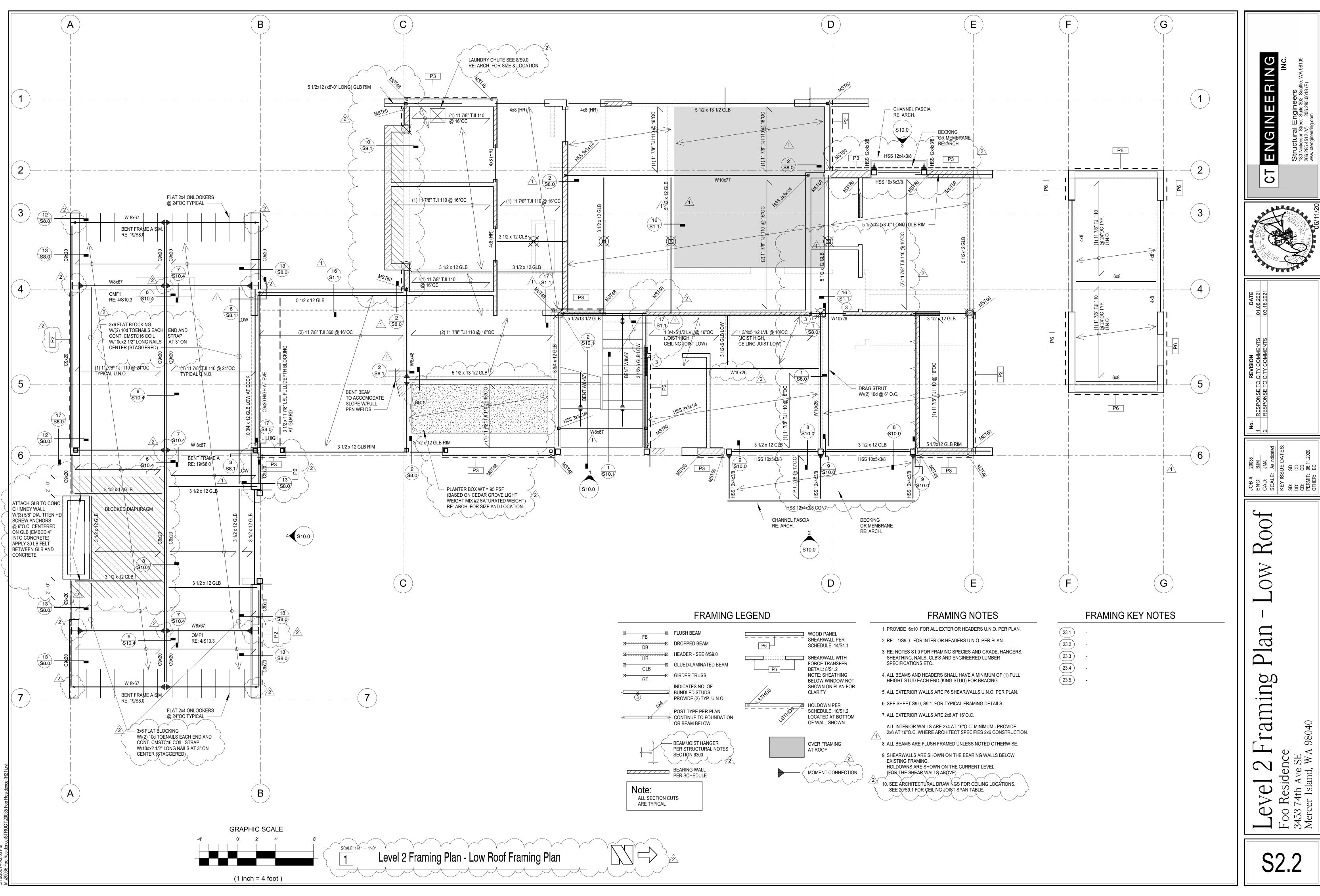


Basement Level Foundation Foo Residence

S2.0

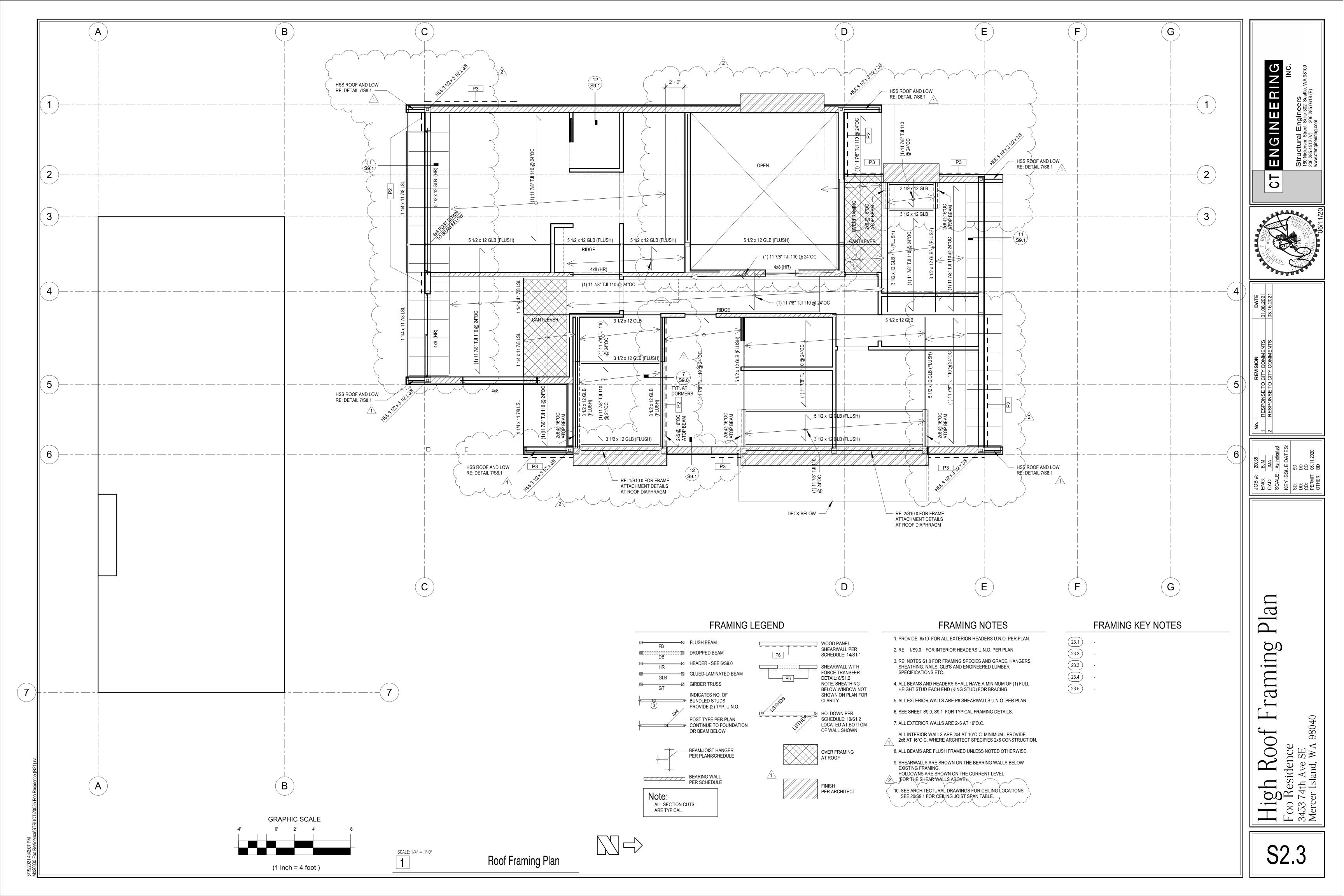


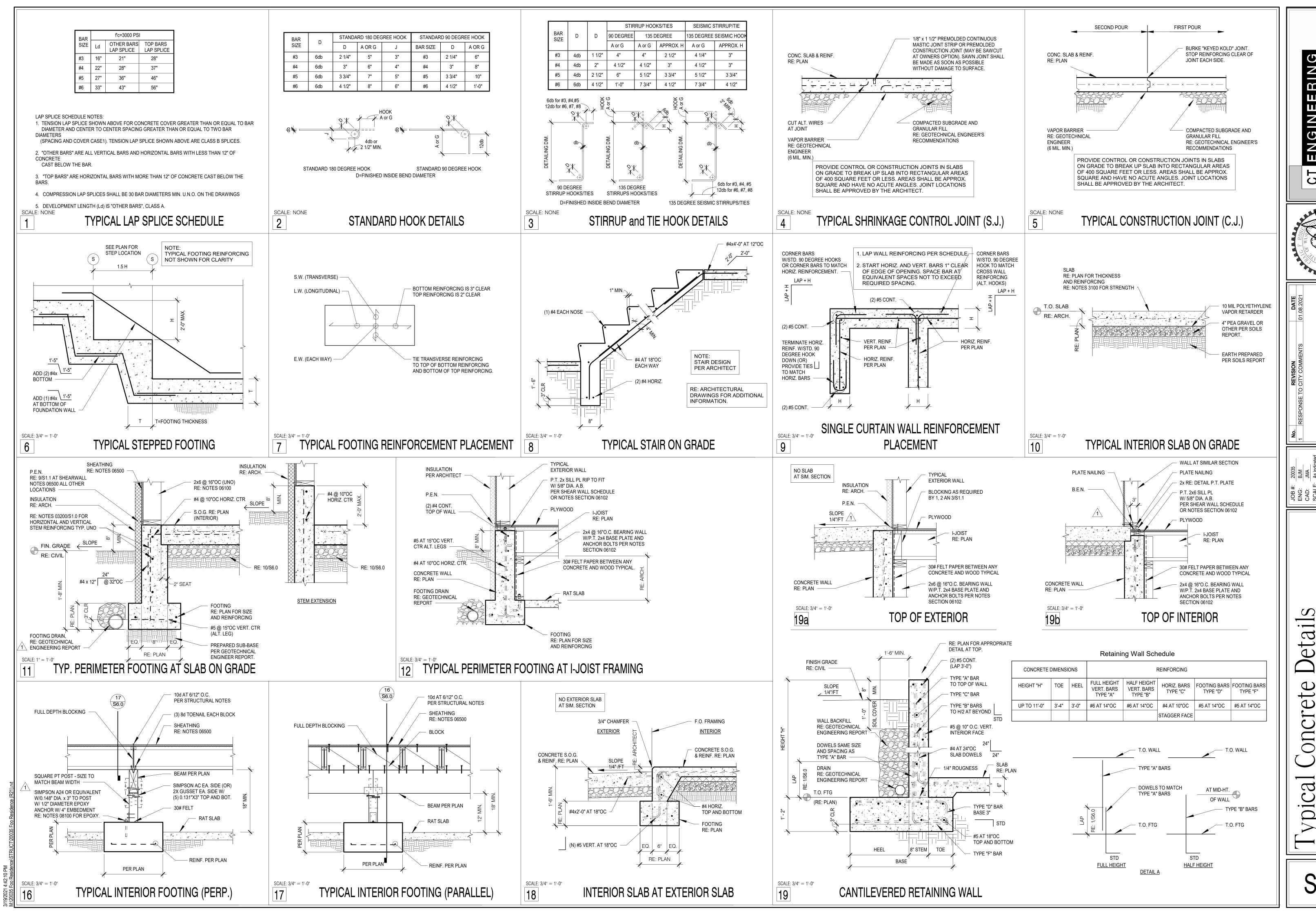
S2.



 Δ B 4 •

S2.2



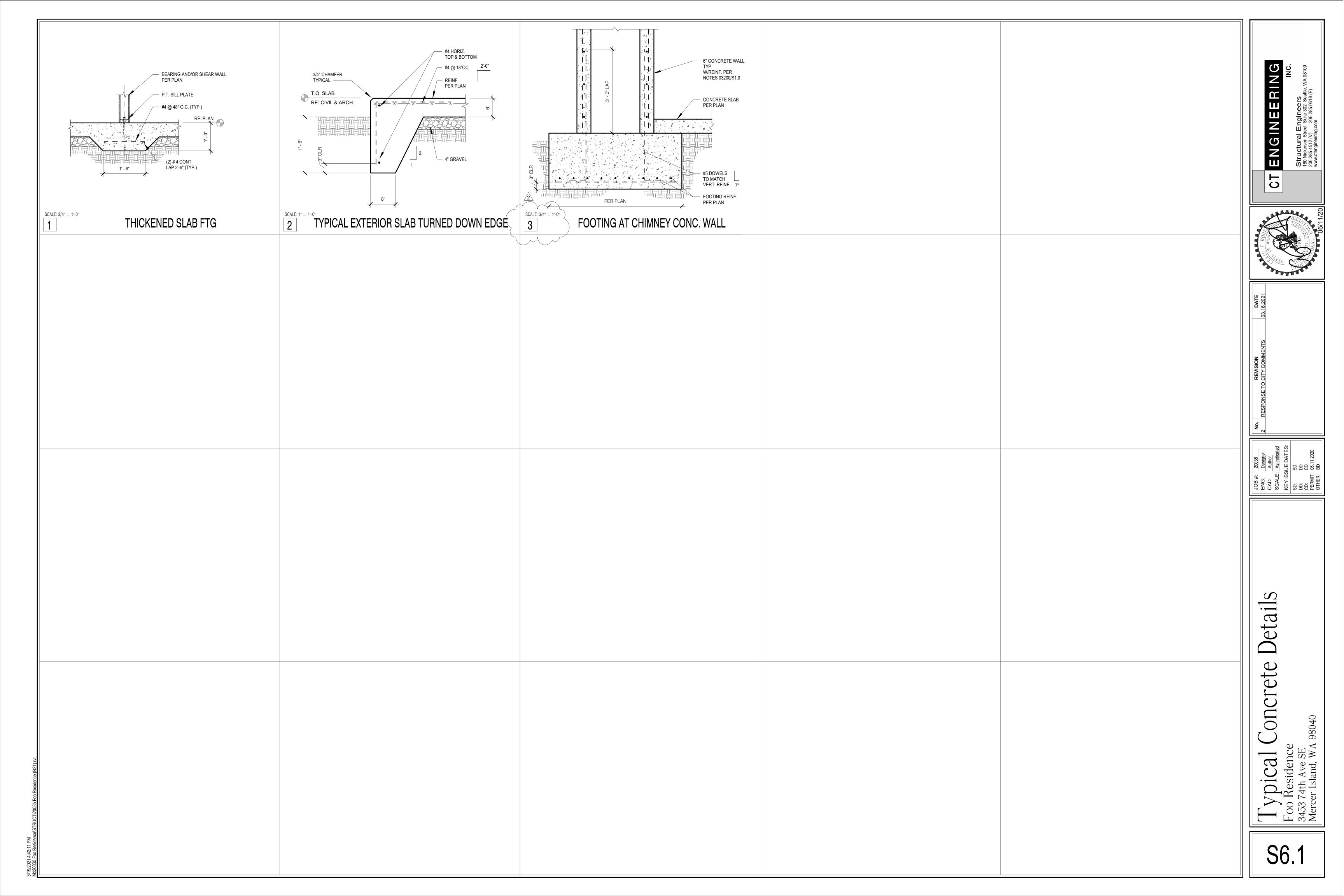


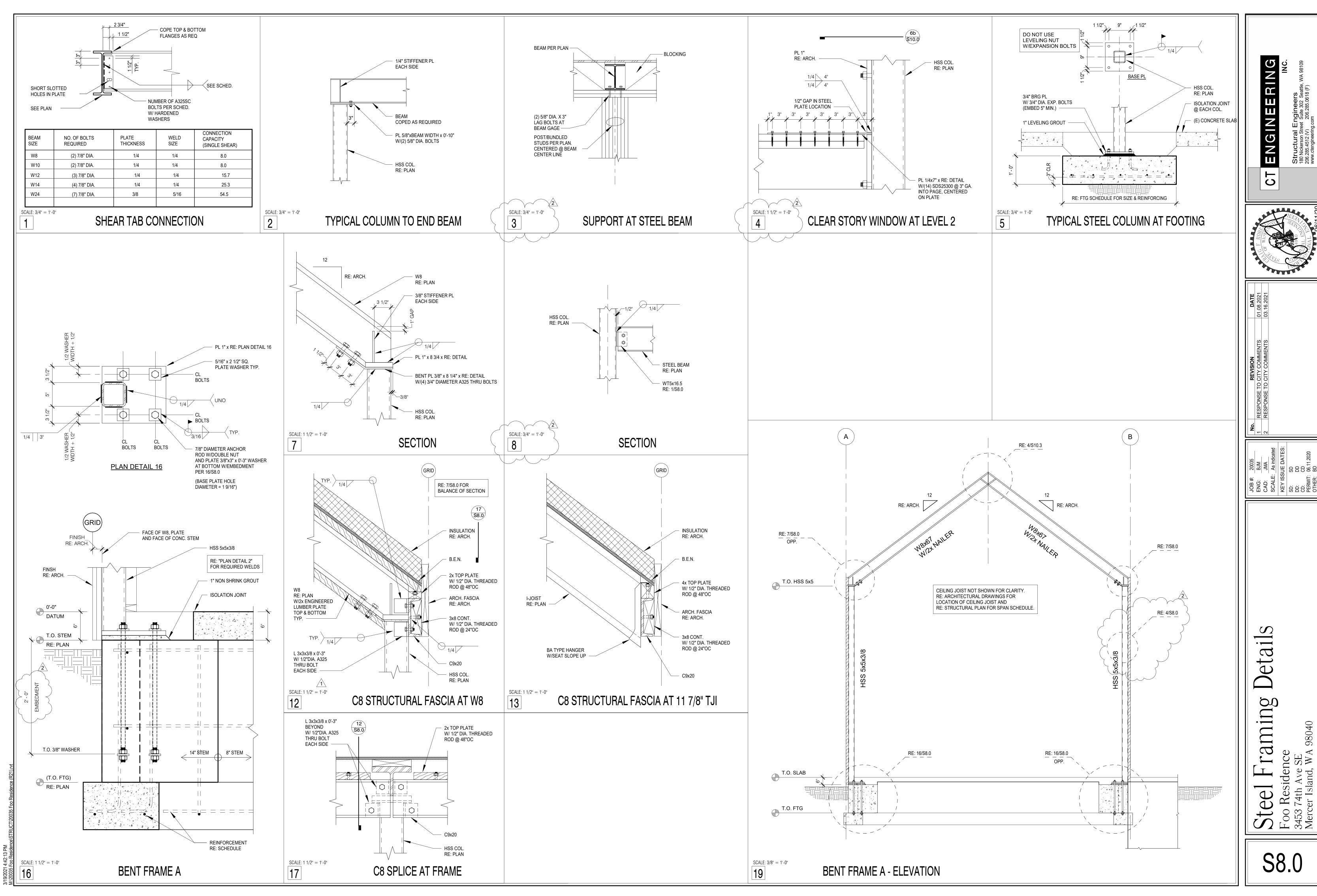
RING Z **D** \circ

JOB #
ENG:
CAD:
SCALI
KEY IS
SD:
CD:
CD:
PERMIT

0

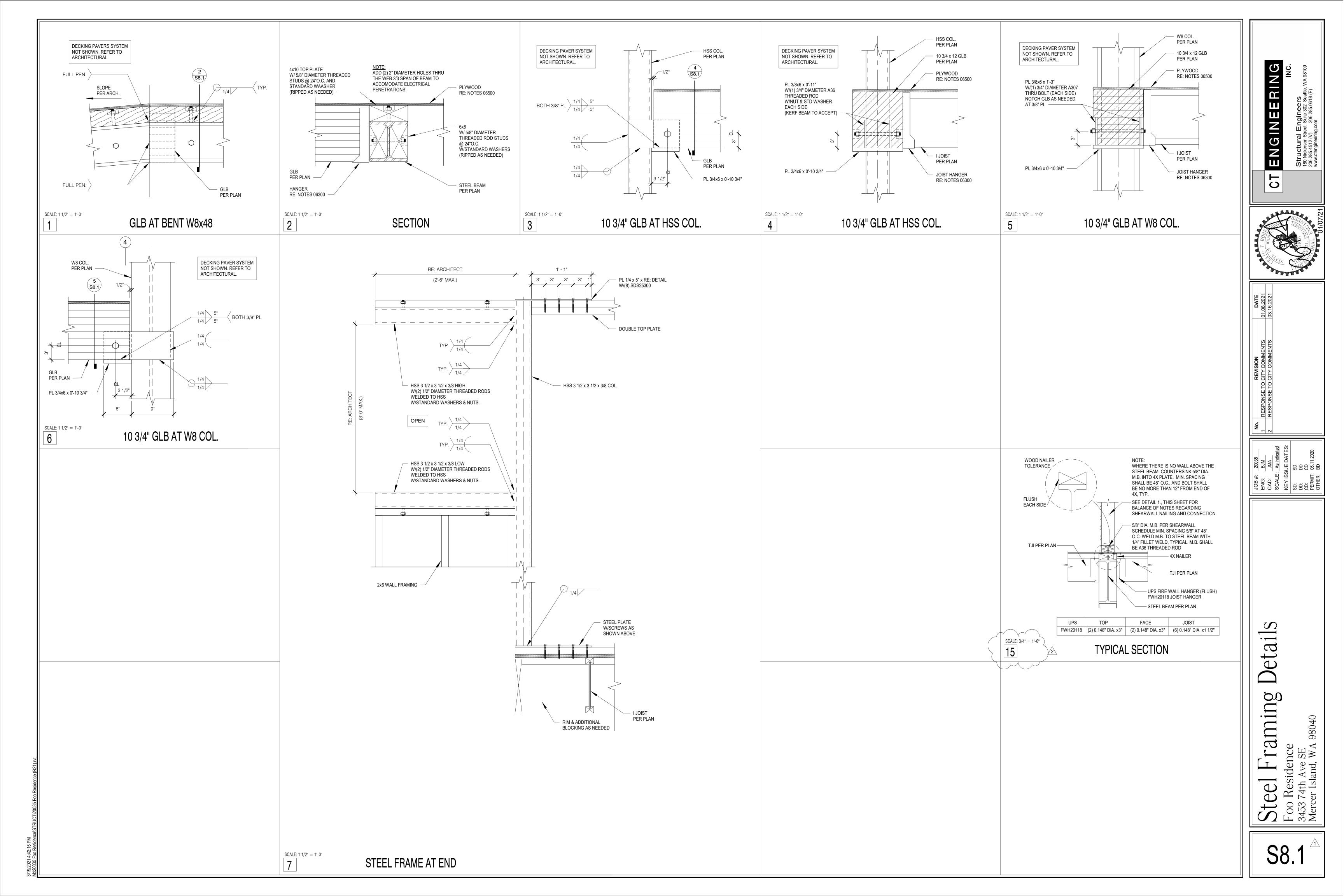
S6.0

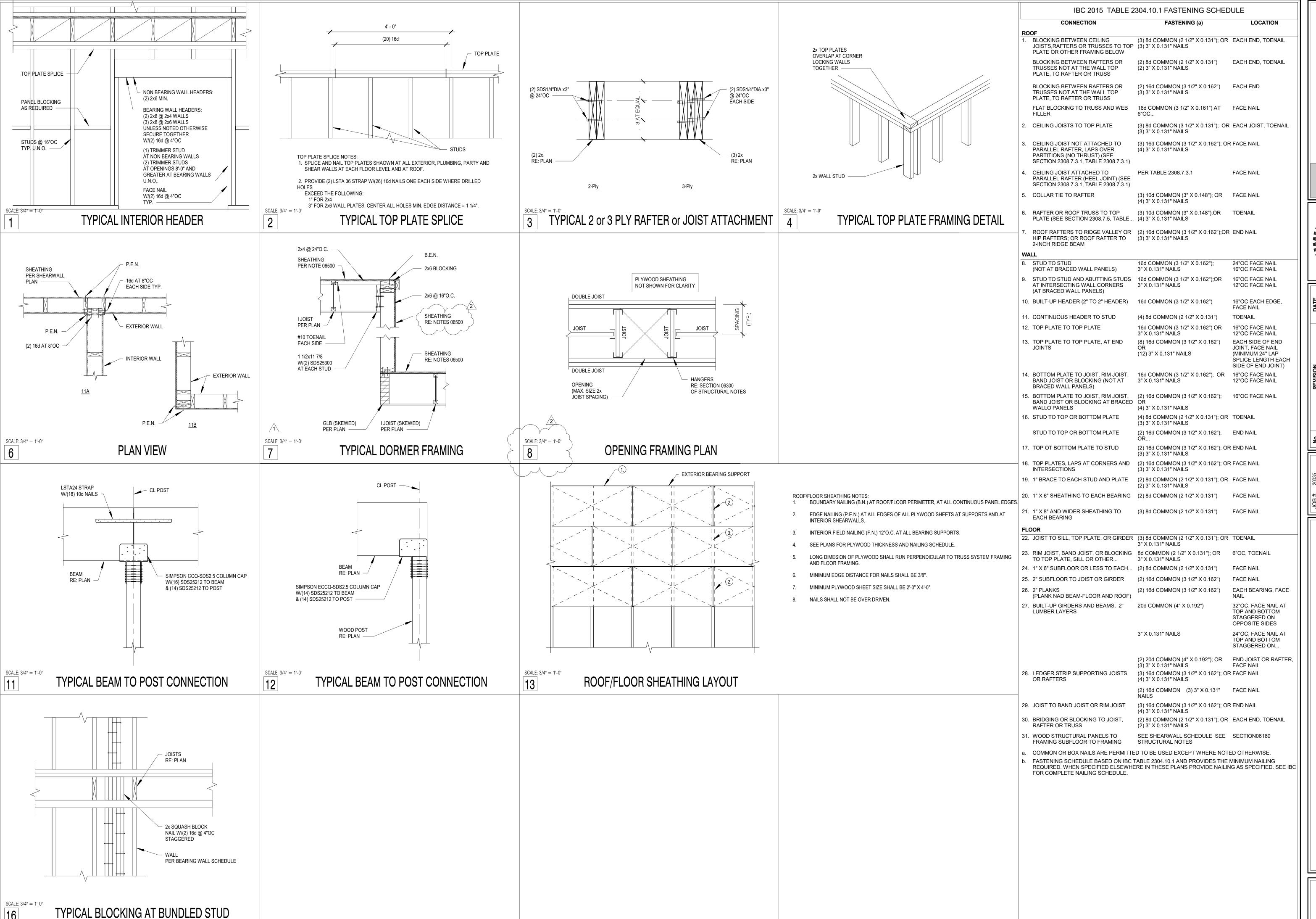




80 ram

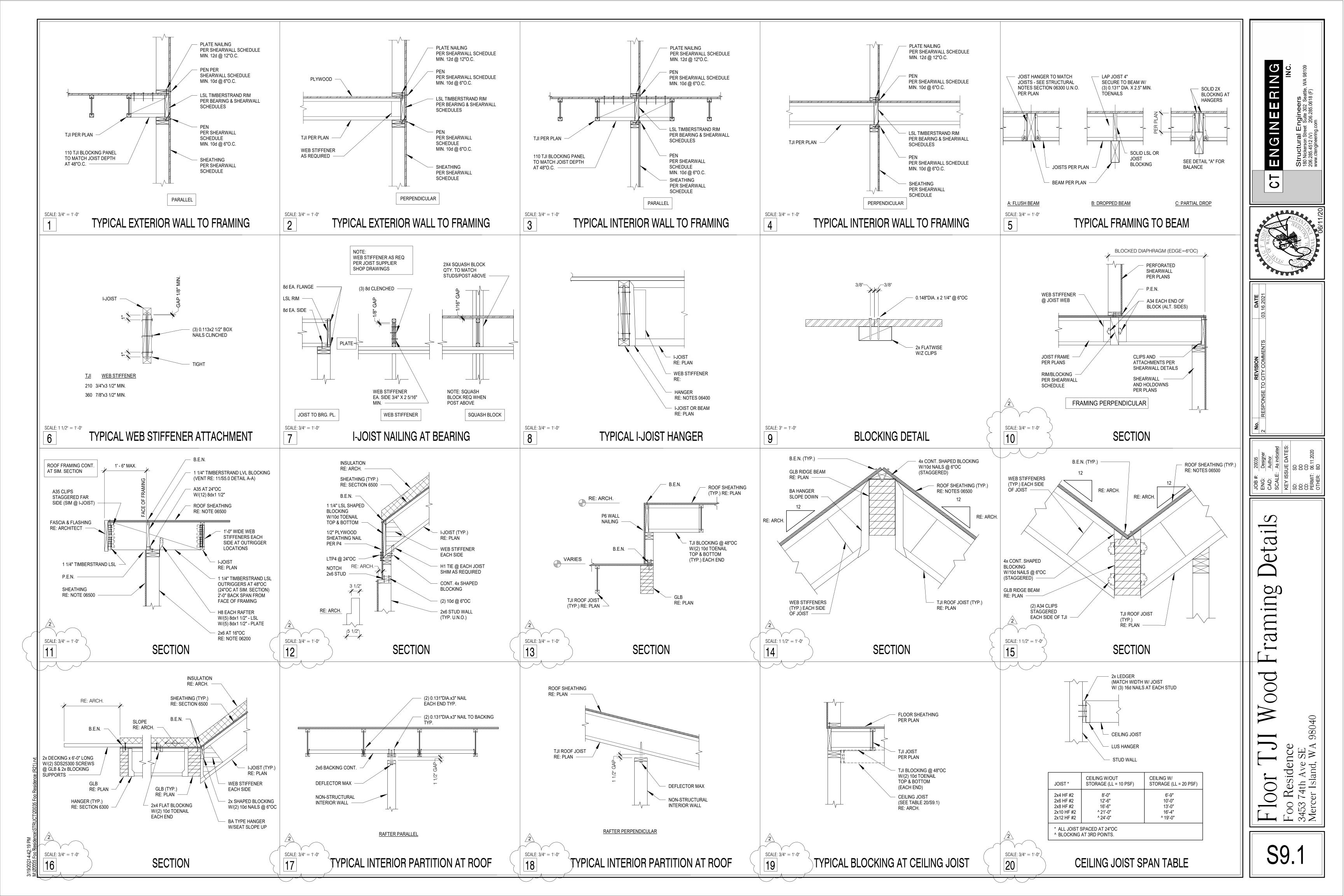
S8.0

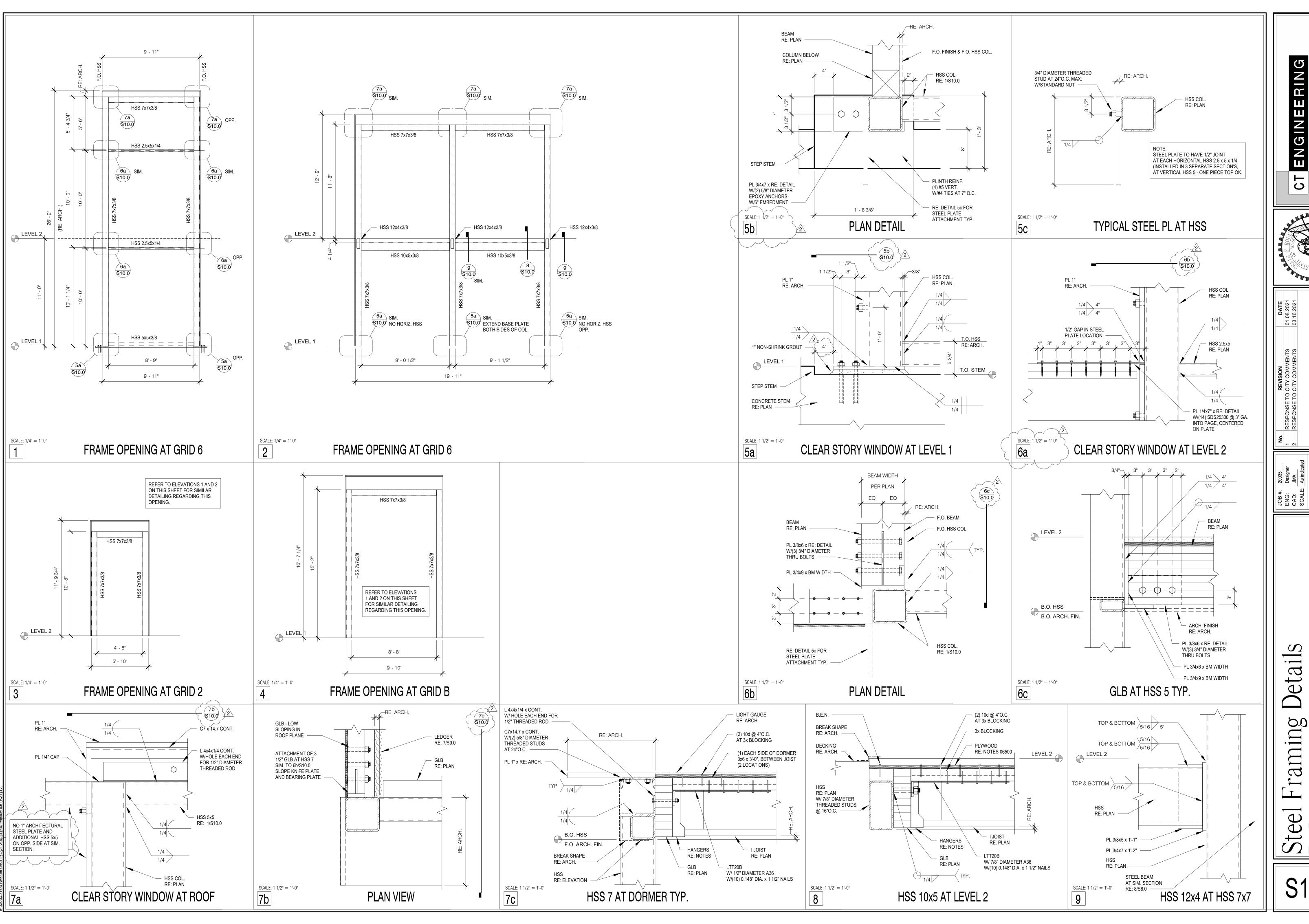




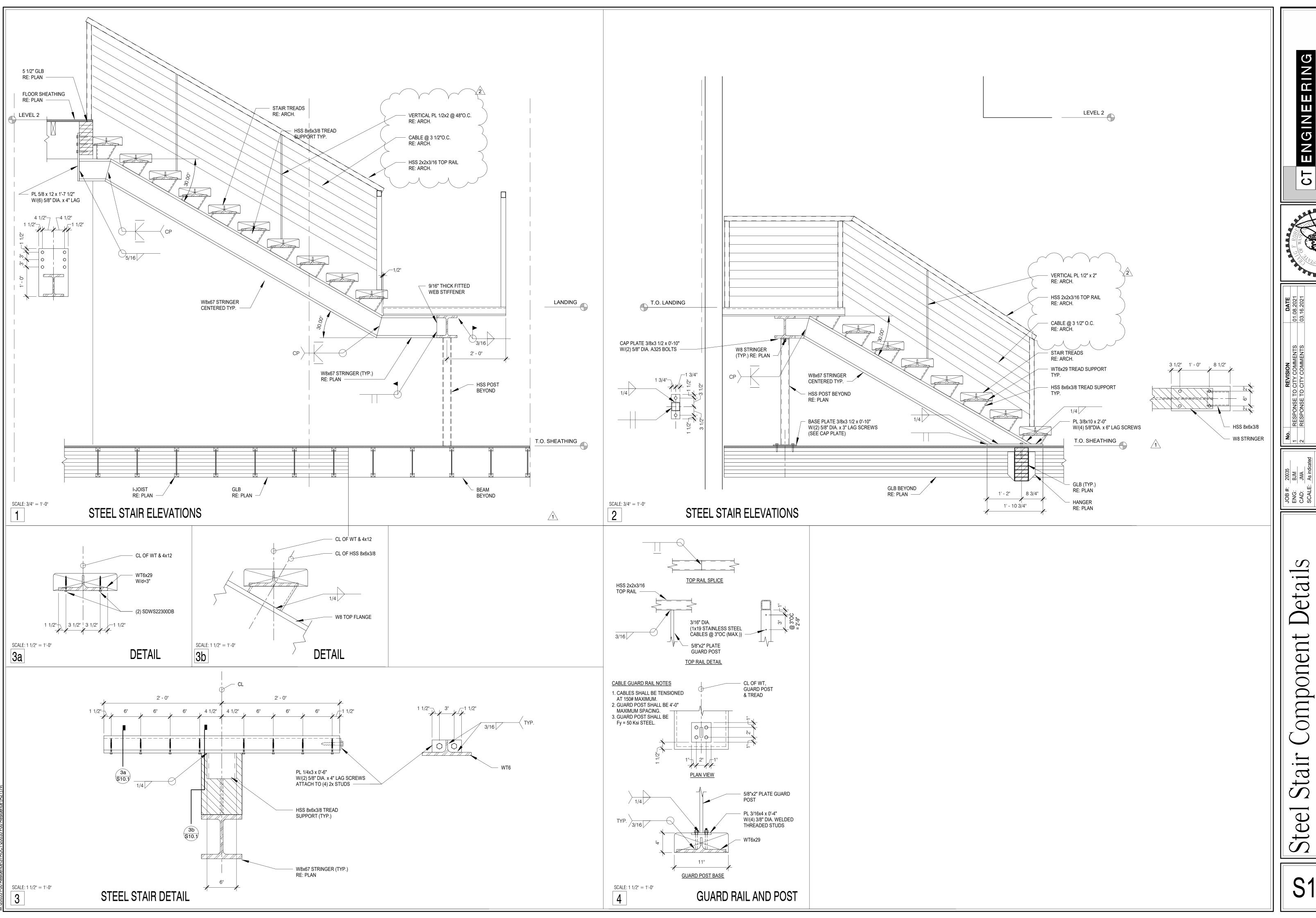
0

C



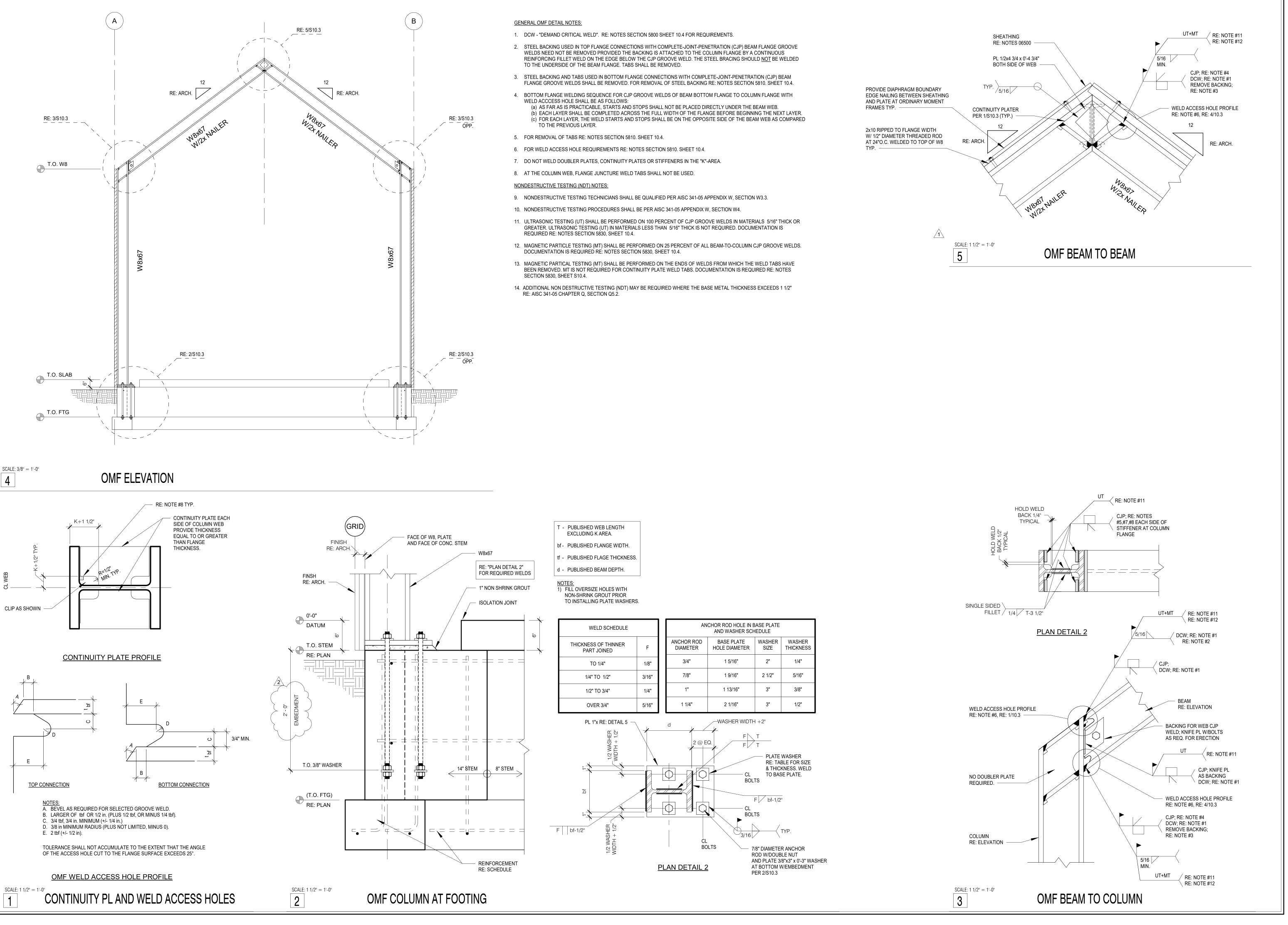


RING.



Details Component

Steel Foo Resi 3453 74th A



G 0 OIII

nar

5800 SLRS - STEEL CONNECTIONS, JOINTS AND FASTENERS

CONNECTIONS, JOINTS AND FASTENERS THAT ARE PART OF THE SEISMIC LOAD RESISTING SYSTEM (SLRS) AS INDICATED IN THE CONSTRUCTION DOCUMENTS SHALL COMPLY WITH AISC 360-10 SPECIFICATION CHAPTER J AND WITH THE ADDITIONAL REQUIREMENTS BELOW.

> ALL BOLTS SHALL BE PRETENSIONED HIGH STRENGTH BOLTS AND SHALL MEET THE REQUIREMENTS FOR SLIP-CRITICAL FAYING SURFACES IN ACCORDANCE WITH AISC 360-10 SPECIFICATION SECTION J3.8 WITH A CLASS A SURFACE.

THE FAYING SURFACES FOR END PLATE MOMENT CONNECTIONS ARE PERMITTED TO BE COATED WITH COATINGS NOT TESTED FOR SLIP RESISTANCE OR WITH COATINGS WITH A SLIP COEFFICIENT LESS THAN THAT OF A CLASS A FAYING SURFACE. BOLTS SHALL BE INSTALLED IN STANDARD HOLES OR IN SHORT-SLOTTED HOLES

SHALL BE PERMITTED WHEN THE CONNECTION IS DESIGNED AS A SLIP CRITICAL JOINT AND THE OVERSIZED HOLE IS IN ONE PLY ONLY. ALTERNATE HOLE TYPES AS SPECIFIED PER AISC 358-05 "PREQUALLIFIED CONNECTIONS FOR SPECIAL AND INTERMEDIATE STEEL MOMENT FRAMES FOR SEISMIC APPLICATIONS" ARE ACCEPTABLE AS NOTED IN THE CONSTRUCTION DOCUMENTS.

WHERE WELDS ARE SPECIFIED AS DEMAND CRITICAL WELDS (DCW) WITHIN THE CONSTRUCTION DOCUMENTS THEY SHALL BE MADE WITH A FILLER METAL CAPABLE OF PROVIDING A MINIMUM CHARPY V-NOTCH (CVN) TOUGHNESS OF 20 FT-LB AT -20° F AS DETERMINED BY THE APPROPRIATE AWS CLASSIFICATION TEST MEATHOD OR MANUFACTURER CERTIFICATION, AND 40 FT-LB AT 70° F AS DETERMINED BY AISC 341-05 APPENDIX X OR OTHER APPROVED MEATHOD, WHEN THE STEEL FRAME IS NORMALLY ENCLOSED AND MAINTAINED AT A TEMPERATURE OF 50° F OR HIGHER.

SMAW ELECTRODES CLASSIFIED IN AWS A5.1 AS E7018 OR E7018-X, SMAW ELECTRODES CLASSIFIED IN AWS A5.5 AS E7018-C3L OR E8018-C3. AND GMAW SOLID ELECTRODES ARE EXEMPTED FROM PRODUCTION LOT TESTING WHEN THE CVN TOUGHNESS OF THE ELECTRODE EQUALS OR EXCEEDS 20FT-LB AT A TEMPERATURE NOT EXCEEDING -20° F AS DETERMINED BY AWS CLASSIFICATION TEST MEATHODS. THE MANUFACTURER'S CERTIFICATE OF COMPLIANCE SHALL BE CONSIDERED SUFFICIENT EVIDENCE OF MEETING

MINIMUM DCW AT MOMENT FRAMES:

DEMAND CRITICAL WELDS SHALL BE PROVIDED AS A MINIMUM AT SPECIAL AND INTERMEDIATE MOMENT FRAMES AT THE FOLLOWING CJP GROOVE WELDS:

- 2. WELDS OF SINGLE PLATE SHEAR CONNECTIONS TO COLUMNS
- 3. WELDS OF BEAM WEBS TO COLUMNS
- 4. COLUMN SPLICE WELDS, INCLUDING COLUMN BASES DEMAND CRITICAL WELDS AS A MINIMUM SHALL BE PROVIDED AT ORDINARY MOMENT

MINIMUM DCW AT ECCENTRICALLY BRACED FRAMES:

- 1. CJP GROOVE WELDS BETWEEN LINK BEAMS AND COLUMNS
- 2. WELDS THAT JOIN THE WEB PLATE TO FLANGE PLATES IN BUILT UP EBF LINK BEAMS 3. CJP GROOVE WELDS AT COLUMN SPLICES

WHERE A "PROTECTED ZONE" IS SPECIFIED WITHIN THE CONSTRUCTION DOCUMENTS IT

SHALL COMPLY WITH THE FOLLOWING: 1. WITHIN THE PROTECTED ZONE, DISCONTINUITIES CREATED BY FABRICATION OR ERECTION OPERATIONS, SUCH AS TACK WELDS, ERECTION AIDS, AIR-ARC GOUGING AND

THERMAL CUTTING SHALL BE REPAIRED AS REQUIRED BY THE ENGINEER OF RECORD. 2. WELDED SHEAR STUDS AND DECKING ATTACHMENTS THAT PENETRATE THE BEAM FLANGE SHALL NOT BE PLACED ON BEAM FLANGES WITHIN THE PROTECTED ZONE. DECKING ARCH SPOT WELDS AS REQUIRED TO SECTURE DECKING SHALL BE PERMITTED. 3. WELDED, BOLTED, SCREWED OR SHOT-IN ATTACHMENTS FOR PERIMITER EDGE ANGLES, EXTERIOR FACADES, PARTITIONS, DUCT WORK, PIPING OR OTHER

CONSTRUCTION SHALL NOT BE PLACED WITHIN THE PROTECTED ZONE. CONTINUITY PLATES AND STIFFENERS

CORNERS OF CONTINUITY PLATES AND STIFFENERS PLACED IN THE WEBS OF ROLLED SHAPES SHALL BE CLIPPED AS DESCRIBED BELOW:

1. ALONG THE WEB THE CLIP SHALL BE DETAILED SO THAT THE CLIP EXTENDS A DISTANCE OF AT LEAST 1 1/2" BEYOND THE PUBLISHED K DETAIL DIMENSION FOR THE

2. ALONG THE FLANGE THE CLIP SHALL BE DETAILED SO THAT THE CLIP DOES NOT EXTEND A DISTANCE OF $1\!\!/2$ " BEYOND THE PUBLISHED K1 DETAIL DIMENSION

3. THE CLIP SHALL BE DETAILED TO FACILITATE SUITABLE WELD TERMINATIONS FOR BOTH THE FLANGE WELD AND THE WEB WELD.

4. IF A CURVED CLIP IS USED, IT SHALL HAVE A MINIMUM RADIUS OF ½".

5. AT THE COLUMN WEB/FLANGE JUNCTURE WELD TABS SHALL NOT BE REMOVED.

5810 ORDINARY MOMENT FRAME (OMF)

WHERE STEEL BACKING IS USED IN FULLY RESTRAINED MOMENT CONNECTIONS WITH COMPLETE-JOINT-PENETRATION (CJP) BEAM FLANGE GROOVE EELDS, STEEL BACKING AND TABS SHALL BE REMOVED EXCEPT THAT TOP-FLANGE BACKING ATTACHED TO THE COLUMN BY A CONTINUOUS FILLET WELD ON THE EDGE BELOW THE CJP GROOVE WELD NEED NOT BE

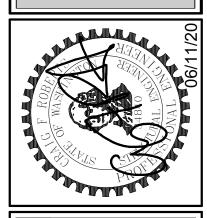
COMPLETE-JOINT-PENETRATION GROOVE WELDS OF BEAM FLANGES, SHEAR PLATES, AND BEAM

REMOVAL OF STEEL BACKING AND TABS SHALL BE AS FOLLOWS:

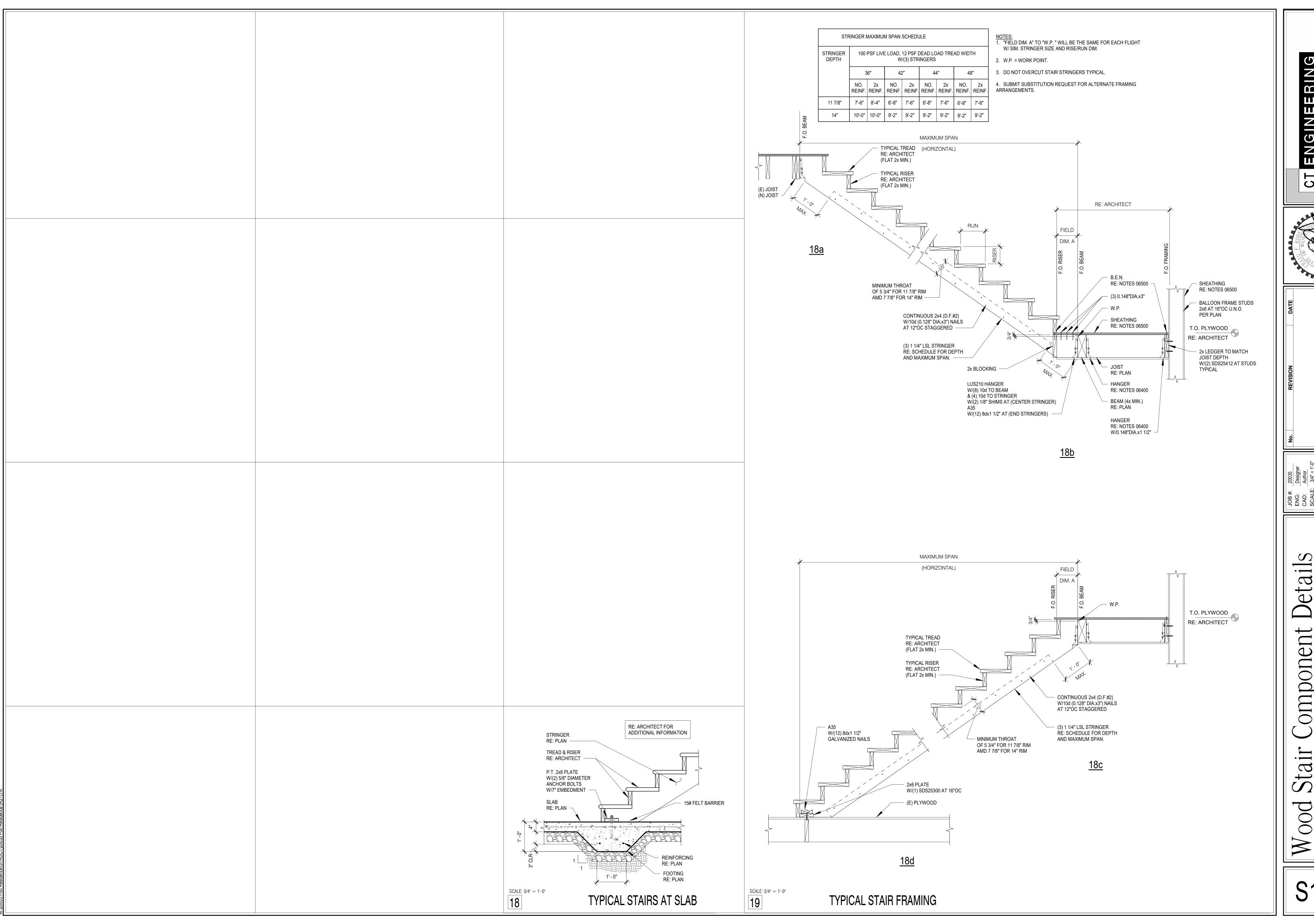
FOLLOWING THE REMOVAL OF BACKING, THE ROOT PASS SHALL BE BACKGOUGED TO SOUND WELD METAL AND BACKWELDED WITH A REINFORCING FILLET. THE REINFORCING FILLET SHALL HAVE A MINIMUM LEG SIZE OF 5/16 IN.

WELD TAB REMOVAL SHALL EXTEND TO WITHIN 1/8 IN OF THE BASE METAL SURFACE, EXCEPT AT CONTINUITY PLATES WHERE REMOVAL TO WITHIN 1/4 IN OF THE PLATE EDGE IS ACCEPTABLE. EDGES OF THE WELD TAB SHALL BE FINISHED TO A SURFACE ROUGHNESS VALUE OF 500 MICRO (10-6) IN. OR BETTER. GRINDING TO A FLUSH CONDITION IS NOT REQUIRED. GOUGES AND NOTCHES ARE NOT PERMITTED. THE TRANSITIONAL SLOPE OF ANY AREA WHERE GOUGES AND NOTCHES HAVE BEEN REMOVED SHALL NOT EXCEED 1:5. MATERIAL REMOVED BY GRINDING THAT EXTENDS MORE THAN 1/16 IN. BELOW THE SURFACE OF THE BASE METAL SHALL BE FILLED WITH WELD METAL. THE CONTOUR OF THE WELD AT THE ENDS SHALL PROVIDE A SMOOTH TRANSITION, FREE OF NOTCHES AND

WELD ACCESS HOLES SHALL BE AS SHOWN ON SHEET SX.X. THE WELD ACCESS HOLE SHALL HAVE A SURFACE ROUGHNESS VALUE NOT TO EXCEED 500 MICRO (10-6) IN. AND SHALL BE FREE OF NOTCHES AND GOUGES. NOTCHES AND GOUGES SHALL BE REPAIRED AS REQUIRED BY THE ENGINEER OF RECORD. WELD ACCESS HOLES ARE PROHIBITED IN THE BEAM WEB ADJACENT TO THE END-PLATE IN BOLTED MOMENT END-PLATE CONNECTIONS.



B 0



ENGINEE

omponent Stair

VERTICAL DATUM, BENCHMARK & CONTOUR INTÉRVAL

ELEVATIONS SHOWN ON THIS DRAWING WERE DERIVED FROM INFORMATION PROVIDED BY WCCS SURVEY CONTROL DATABASE.

POINT ID NO. 238

ELEVATION: 324.56 FEET (98.926 METERS) NAVD88

2" BRASS CAP IN MONUMENT CASE AT THE INTERSECTION OF SE 32ND ST & 74TH AVE SE

2.0' CONTOUR INTERVAL — THE EXPECTED VERTICAL ACCURACY IS EQUAL TO 1/2 THE CONTOUR INTERVAL OR PLUS / MINUS 1.0' FOR THIS PROJECT.

BASIS OF BEARING

HELD RECORD OF SURVEY BY MS WEBB SURVEYING AS RECORDED IN VOLUME 135 OF SURVEYS, PAGE 243, RECORDS OF KING COUNTY, WASHINGTON AND RECORDED UNDER RECORDING NUMBER 200000215900011. ACCEPTED A BEARING OF N 90°00'00" W FOR THE CENTERLINE OF SE 32ND STREET BASED ON FOUND MOUNUMENTS IN CASE.

SURVEY NOTES

THIS SURVEY WAS COMPLETED WITHOUT BENEFIT OF A CURRENT TITLE REPORT. EASEMENTS AND OTHER ENCUMBRANCES MAY EXIST ON THIS PROPERTY THAT ARE NOT SHOWN HEREON.

INSTRUMENTATION FOR THIS SURVEY WAS A 3-SECOND NIKON NIVO 5.C TOTAL STATION. PROCEDURES USED IN THIS SURVEY MEET OR EXCEED STANDARDS SET BY WAC 332-130-090.

THE INFORMATION ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY MADE IN JUNE 2018 AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

UTILITIES SHOWN ON THIS SURVEY ARE BASED UPON ABOVE GROUND OBSERVATIONS AND AS-BUILT PLANS WHERE AVAILABLE. ACTUAL LOCATIONS OF UNDERGROUND UTILITIES MAY VARY AND UTILITIES NOT SHOWN ON THIS SURVEY MAY EXIST ON THIS SITE.

ALL MONUMENTS WERE LOCATED DURING THIS SURVEY UNLESS OTHERWISE

LEGAL DESCRIPTION

LOTS 16 THROUGH 20 AND THE EAST 15 FEET OF LOTS 21 THROUGH 25, BLOCK 7, C.C. CALKINS FIRST ADDITION TO EAST SEATTLE, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 4 OF PLATS, PAGE 88, RECORDS OF KING COUNTY, WASHINGTON; TOGETHER WITH THE WEST HALF OF VACATED 74TH PLACE SE LYING NORTH OF THE SOUTH MARGIN OF SAID PLAT AND SOUTH OF THE EASTERLY EXTENSION OF THE NORTH LINE OF SAID LOT 16 AND TOGETHER WITH THAT PORTION OF VACATED SE 36TH STREET, LYING WITHIN SAID PLAT AND WEST OF THE CENTERLINE OF 74TH PLACE SE AND EAST OF THE SOUTHERLY EXTENSION OF THE WEST LINE OF SAID LOT 20.

SITUATE IN THE CITY OF MERCER ISLAND, COUNTY OF KING, STATE OF WASHINGTON.

SITE STATISTICS

R-8.4 (RESIDENTIAL-SINGLE FAMILY ZONING: SITE AREA: 21,618 SF (±0.496 ACRES)

130030-1965 TAX PARCEL:

LEGEND

<u>EXISTING</u>

FOUND MONUMENT AS DESCRIBED FOUND REBAR AS DESCRIBED TACK IN LEAD FOUND

SET 5/8" X 24" IRON ROD W/1" YELLOW PLASTIC CAP

POWER METER UTILITY POLE

GAS METER

WATER VALVE WATER METER

APPROXIMATE LOCATION SANITARY SEWER LINE

APPROXIMATE LOCATION STORM DRAIN LINE

- OHP- OVERHEAD POWER

— X— CHAINLINK FENCE

—□— WOOD FENCE CONCRETE WALL

> ROCKERY ASPHALT SURFACE

GRAVEL SURFACE

SEQUOIA CEDAR DOUGLAS FIR

HEMLOCK

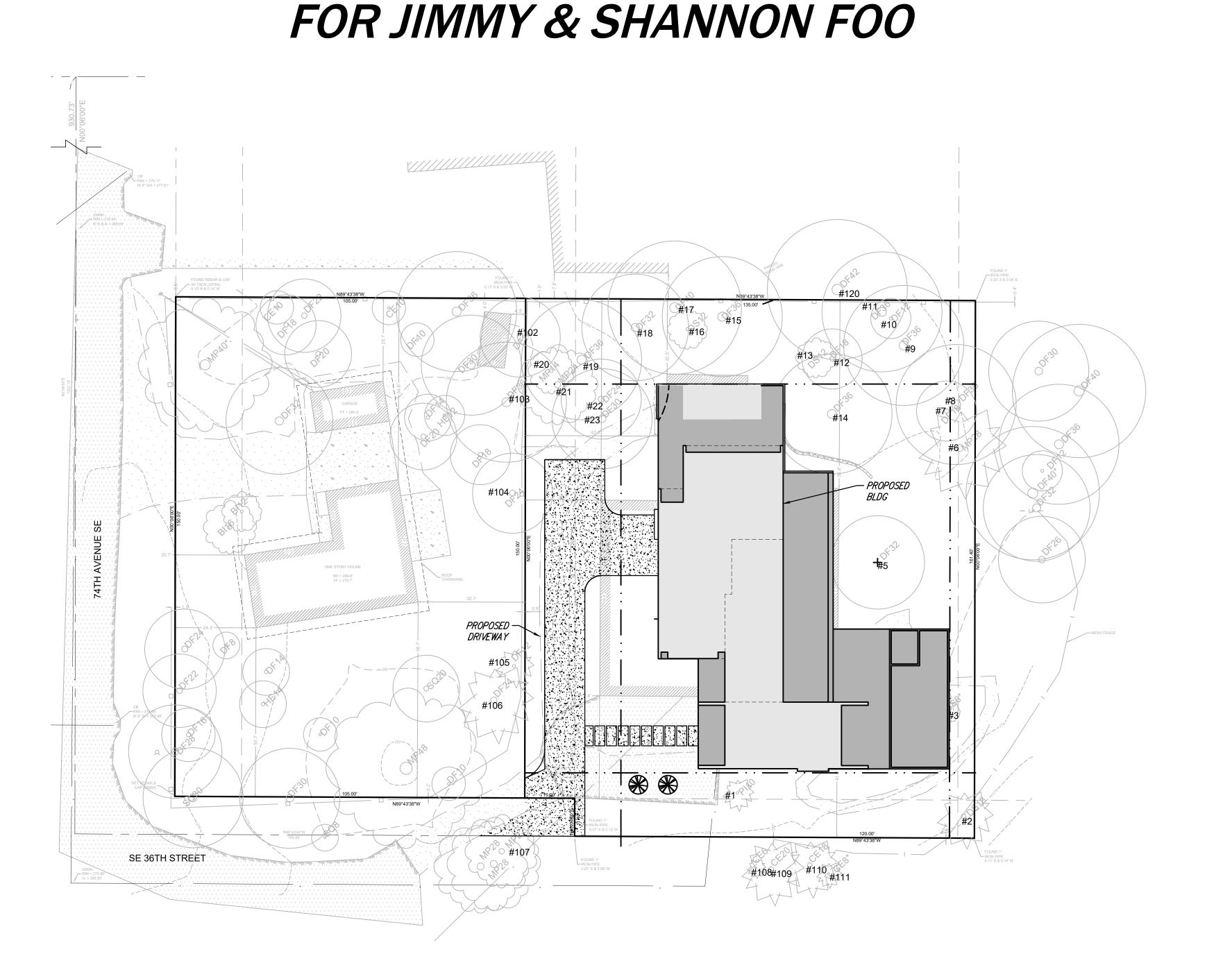
SPRUCE DECIDUOUS

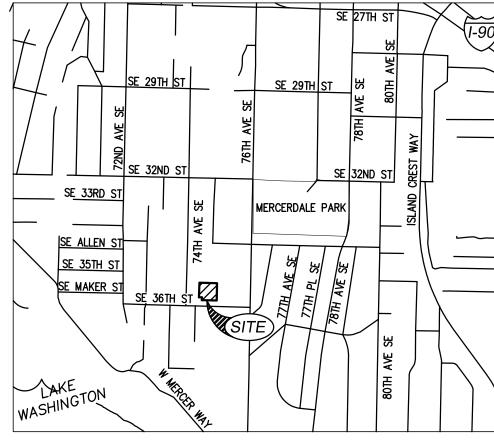
* DENOTES MULTI-TRUNK

-OHU- OVERHEAD UTILITIES

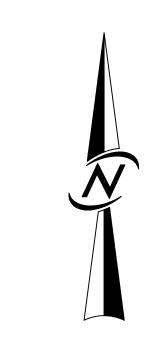
BUILDING PERMIT PLANS FOR

3453 74TH AVE W





VICINITY MAP SCALE: 1:1000





JIMMY & SHANNON FOO 2820 29TH AVE W SEATTLE, WA 98199 CONTACT: SHANNON FOO PHONE: (306) 613-5505

ENGINEER

CORE DESIGN INC 12100 NE 195TH ST, SUITE 300 BOTHELL, WASHINGTON 98011 (425) 885-7877 CONTACT: MICHAEL A. MOODY, P.E.

SURVEY:

SITE SURVEYING INC 21923 NE 11TH ST SAMMAMISH, WASHINGTON 98074 (425) 298-4412

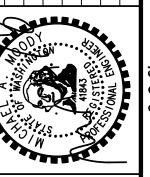
SHEET INDEX

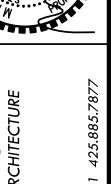
C1.01 C1.02 C1.03 C1.31-C1.32 COVER SHEET TOPOGRAPHIC SURVEY SITE PLAN STORMWATER DRAINAGE DETAIL TESC PLAN

UNDERGROUND LOCATOR SERVICE CALL BEFORE YOU DIG!

811

PERMIT #XXXX-XXX



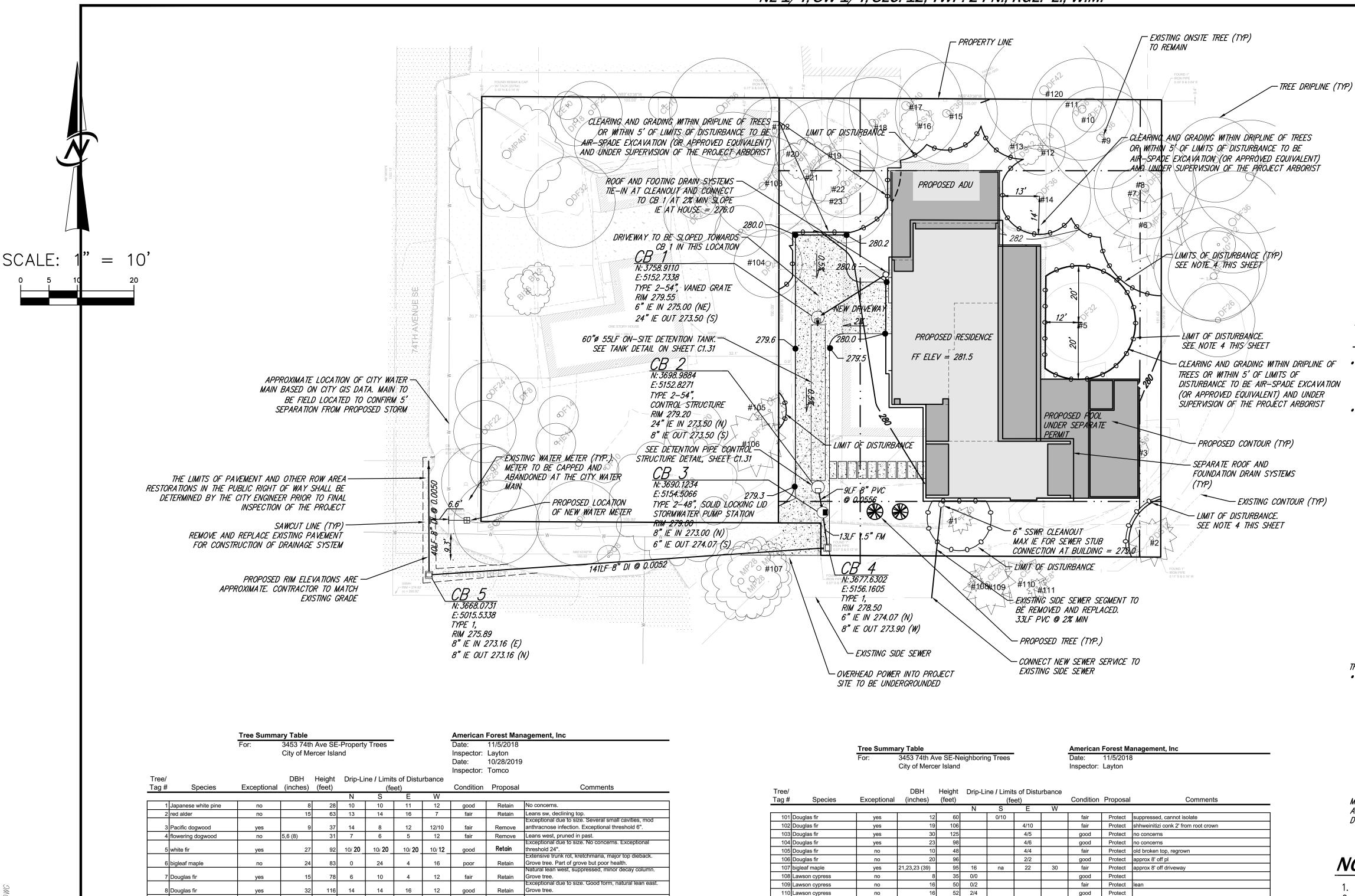






SHEET C1.01

ROJECT NUMBER 20034



Retain Exceptional due to size. 60% lcr. Grove tree

Retain Exceptional due to size. 70% lcr. Grove tree.

Retain Exceptional due to size. 60% lcr. Grove tree.

Retain Grove tree.

good Retain Natural lean north. Grove tree.

fair Retain 60% lcr, old broken top. Grove tree.

Grove tree.

Retain Old broken top. Grove tree.

Retain Old broken top. Grove tree.

15/12 16 14/13 good Retain Exceptional due to size. 70% lcr. Grove tree.

16/14 12 12 good Retain Exceptional due to size. 70% lcr. Grove tree.

Old broken top, suppressed, moderate decay column.

Exceptional due to size. Large canker on east side.

Exceptional due to size, suppressed by Douglas

ppressed, old broken top, asymm crown to north.

good

fair

9 Douglas fir

11 Douglas fir 12 Douglas fir

13 Pacific dogwood
14 Douglas fir

16 Pacific dogwood

15 Douglas fir

17 Douglas fir

18 Douglas fir

19 Douglas fir

20 bigleaf maple

21 bigleaf maple

22 Douglas fir

23 Douglas fir

yes

yes

yes

yes

yes

Parcel Trees - Drip-Line and Limits of Disturbance measurements from face of trunk

(example with 3 stems: dbh = square root [(stem1)2 +(stem2)2 +(stem3)2]).

Trees on neighboring properties - Drip-Line and Limits of Disturbance measurements from property line

Calculated DBH: the DBH is parenthesis is the square root of the sum of the dbh for each individual stem squared

128 12

90 8

13/12 14 10

| ree/ ag # | Species | Exceptional | DBH (inches) | Height (feet) | Drip-Li | | s of Distu et) | rbance | Condition | Proposal | Comments |
|--------------|----------------|-------------|-----------------|------------------|---------|-------|-------------------|--------|-----------|----------|--------------------------------------|
| | | | | | N | S | Е | W | | | |
| 101 | Douglas fir | yes | 12 | 60 | | 0/10 | | | fair | Protect | suppressed, cannot isolate |
| 102 | Douglas fir | yes | 19 | 106 | | | 4/10 | | fair | Protect | shhweinitizi conk 2' from root crown |
| 103 | Douglas fir | yes | 30 | 125 | | | 4/5 | | good | Protect | no concerns |
| 104 | Douglas fir | yes | 23 | 98 | | | 4/6 | | good | Protect | no concerns |
| 105 | Douglas fir | no | 10 | 48 | | | 4/4 | | fair | Protect | old broken top, regrown |
| 106 | Douglas fir | no | 20 | 96 | | | 2/2 | | good | Protect | approx 8' off pl |
| 107 | bigleaf maple | yes | 21,23,23 (39) | 95 | 16 | na | 22 | 30 | fair | Protect | approx 8' off driveway |
| 108 | Lawson cypress | no | 8 | 35 | 0/0 | | | | good | Protect | |
| 109 | Lawson cypress | no | 16 | 50 | 0/2 | | | | fair | Protect | lean |
| 110 | Lawson cypress | no | 16 | 52 | 2/4 | | | | good | Protect | |
| 111 | Lawson cypress | no | 10 | 42 | 2/2 | | | | good | Protect | |
| 112 | Douglas fir | yes | 22 | 86 | | 19 | | 17/16 | good | Protect | natural lean southwest |
| 113 | Douglas fir | yes | 24 | 90 | | | | 12/14 | fair | Protect | old broken top |
| 114 | Douglas fir | yes | 21 | 62 | | | | 19/14 | fair | Protect | leans southwest, mod decay column |
| 115 | Douglas fir | yes | 38 | 145 | | | | 15/16 | good | Protect | |
| 116 | Douglas fir | yes | 11 | 67 | | | | 6/8 | fair | Protect | suppressed |
| 117 | Douglas fir | yes | 28 | 130 | | | | 10/14 | good | Protect | good taper |
| 118 | Douglas fir | yes | 35 | 132 | | | | 10/18 | good | Protect | |
| 119 | Douglas fir | yes | 24 | 113 | | | | 14/14 | good | Protect | |
| 120 | Douglas fir | yes | 36 | 135 | | 14/16 | | | good | Protect | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

Trees on neighboring properties - Drip-Line and Limits of Disturbance measurements from property line, except for #112>#119, face of trunk Calculated DBH: the DBH is parenthesis is the square root of the sum of the dbh for each individual stem squared (example with 3 stems: dbh = square root [(stem1)2 +(stem2)2 +(stem3)2]).

LOT COVERAGE PROPOSED

LOT 21,618 SQ.FT.

ROOF AREA= 3,936 SQ.FT.

DRIVE / WALK = 4,888 SQ.FT.

TOTAL IMPERVIOUS = 8,824 SQ.FT.
PROPOSED IMPERVIOUS = 40.8%

BMP T5.13: POST-CONSTRUCTION SOIL QUALITY AND DEPTH DESIGN QUIDELINES

- SOIL RETENTION. RETAIN, IN AN UNDISTURBED STATE, THE DUFF LAYER AND NATIVE TOPSOIL
 TO THE MAXIMUM EXTENT PRACTICABLE. IN ANY AREAS REQUIRING GRADING REMOVE AND
 STOCKPILE THE DUFF LAYER AND TOPSOIL ON SITE IN A DESIGNATED, CONTROLLED AREA, NOT
 ADJACENT TO PUBLIC RESOURCES AND CRITICAL AREAS, TO BE REAPPLIED TO OTHER
 PORTIONS OF THE SITE WHERE FEASIBLE.
- SOIL QUALITY. ALL AREAS SUBJECT TO CLEARING AND GRADING THAT HAVE NOT BEEN COVERED BY IMPERVIOUS SURFACE, INCORPORATED INTO A DRAINAGE FACILITY OR ENGINEERED AS STRUCTURAL FILL OR SLOPE SHALL, AT PROJECT COMPLETION, DEMONSTRATE THE FOLLOWING:
- A TOPSOIL LAYER WITH MINIMUM ORGANIC MATTER CONTENT OF 10% DRY WEIGHT IN PLANTING BEDS, AND 5% ORGANIC MATTER CONTENT IN TURF AREAS, AND A PH FROM 6.0 TO 8.0 OR MATCHING THE PH OF THE UNDISTURBED SOIL. THE TOPSOIL LAYER SHALL HAVE A MINIMUM DEPTH OF EIGHT INCHES EXCEPT WHERE TREE ROOTS LIMIT THE DEPTH OF INCORPORATION OF AMENDMENTS NEEDED TO MEET THE CRITERIA. SUBSOILS BELOW THE TOPSOIL LAYER SHOULD BE SCARIFIED AT LEAST 4 INCHES WITH SOME INCORPORATION OF THE UPPER MATERIAL TO AVOID STRATIFIED LAYERS, WHERE FEASIBLE. MULCH PLATING BEDS WITH 2 INCHES OF ORGANIC MATERIAL.
- 3. USE COMPOST AND OTHER MATERIALS THAT MEET THESE ORGANIC CONTENT REQUIREMENTS:
- a. THE ORGANIC CONTENT FROM "PRE—APPROVED" AMENDMENT RATES CAN BE MET ONLY USING COMPOST MEETING THE COMPOST SPECIFICATIONS FOR BMP 17.30: BIORETENTION CELLS, SWALES, AND PLANTER BOXES, WITH THE EXCEPTION THAT THE COMPOST MAY HAVE UP TO 35% BIOSOLIDS OR MANURE. THE COMPOST MUST ALSO HAVE AN ORGANIC MATTER CONTENT OF 40% TO 65%, AND A CARBON TO NITROGEN RATIO BELOW 25:1. THE CARBON TO NITROGEN RATIO MAY BE AS HIGH AS 35:1 FOR PLANTINGS COMPOSED ENTIRELY OF PLANTS NATIVE TO THE PUGET SOUND LOWLANDS REGION
- b. CALCULATED AMENDMENT RATES MAY BE MET THROUGH THE USE OF COMPOSTED

 MATERIAL (A) ABOVE; OR OTHER ORGANIC MATERIALS AMENDED TO MEET THE

 CARBON TO NITROGEN RATIO REQUIREMENTS, AND NOT EXCEEDING THE CONTAINMENT

 LIMITS IDENTIFIED IN TABLE 220-B, TESTING PARAMETERS, IN WAC 173-350-220.

THE RESULTING SOIL SHOULD BE CONDUCIVE TO THE TYPE OF VEGETATION TO BE ESTABLISHED.

• IMPLEMENTATION OPTIONS: THE SOIL QUALITY DESIGN GUIDELINES LISTED ABOVE CAN BE MET BY USING ONE OF THE METHODS LISTED BELOW:

- 1. LEAVE UNDISTURBED NATIVE VEGETATION AND SOIL, AND PROTECT FROM COMPACTION DURING CONSTRUCTION.
- 2. AMEND EXISTING SITE TOPSOIL OR SUBSOIL EITHER AT DEFAULT "PRE—APPROVED" RATES, OR AT CUSTOM CALCULATED RATES BASED ON TESTS OF THE SOIL AND AMENDMENT
- 3. STOCKPILE EXISTING TOPSOIL DURING GRADING, AND REPLACE IT PRIOR TO PLANTING.
 STOCKPILED TOPSOIL MUST ALSO BE AMENDED IF NEEDED TO MEET THE ORGANIC MATTER
 OR DEPTH REQUIREMENTS, EITHER AT A DEFAULT "PRE-APPROVED" RATE OR AT A
- CUSTOM CALCULATED RATE.
 4. IMPORT TOPSOIL MIX OF SUFFICIENT ORGANIC CONTENT AND DEPTH TO MEET THE REQUIREMENTS.

MORE THAN ONE METHOD MAY BE USED ON DIFFERENT PORTIONS OF THE SAME SITE. SOIL THAT ALREADY MEETS THE DEPTH AND ORGANIC MATTER QUALITY STANDARDS, AND IS NOT COMPACTED, DOES NOT NEED TO BE AMENDED.

NOTES

- SEE PSE PLANS FOR LOCATION OF UTILITIES. PROPOSED DRY UTILITIES WILL BE BURIED.
 THE LAWN AND LANDSCAPE AREAS ARE REQUIRED TO PROVIDE POST—CONSTRUCTION SOIL QUALITY AND DEPTH IN ACCORDANCE WITH BMP T5.13. THE PROJECT CIVIL ENGINEER MUST PROVIDE A LETTER OF CERTIFICATION TO ENSURE THAT THE LAWN AND LANDSCAPE AREAS ARE MEETING THE POST—CONSTRUCTION SOIL QUALITY AND DEPTH
- LANDSCAPE AREAS ARE MEETING THE POST—CONSTRUCTION SOIL QUALITY AND DEPTH REQUIREMENTS SPECIFIED ON THE APPROVED PLAN SET PRIOR TO FINAL INSPECTION OF THE PROJECT.

 3. THE TV INSPECTION OF THE EXISTING SHARED SIDE SEWER TO THE CITY SEWER MAIN
- ON 74TH AVE SE IS REQUIRED PRIOR TO ANY WORK RELATED TO THE SIDE SEWER. IF THE RESULT OF THE TV INSPECTION IS NOT IN SATISFACTORY CONDITION, AS DETERMINED BY THE CITY OF MERCER ISLAND INSPECTOR, THE REPLACEMENT OF THE EXISTING SIDE SEWER IS REQUIRED.
- 4. TREE PROTECTION FENCING SHALL BE INSTALLED AT THE LIMIT OF DISTURBANCE PER DETAIL, SHEET C2.01.

UNDERGROUND LOCATOR SERVICE

CALL BEFORE YOU DIG!

811

PERMIT #XXXX-XXX

F Wasingood

LANDSCAPE ARG LANDSCAPE ARG PLANNING IGN SURVEYING



SITE PLAN AND TREE PROTECTION 3453 74TH AVE SE IMMY & SHANNON FOC

MARY MOORE

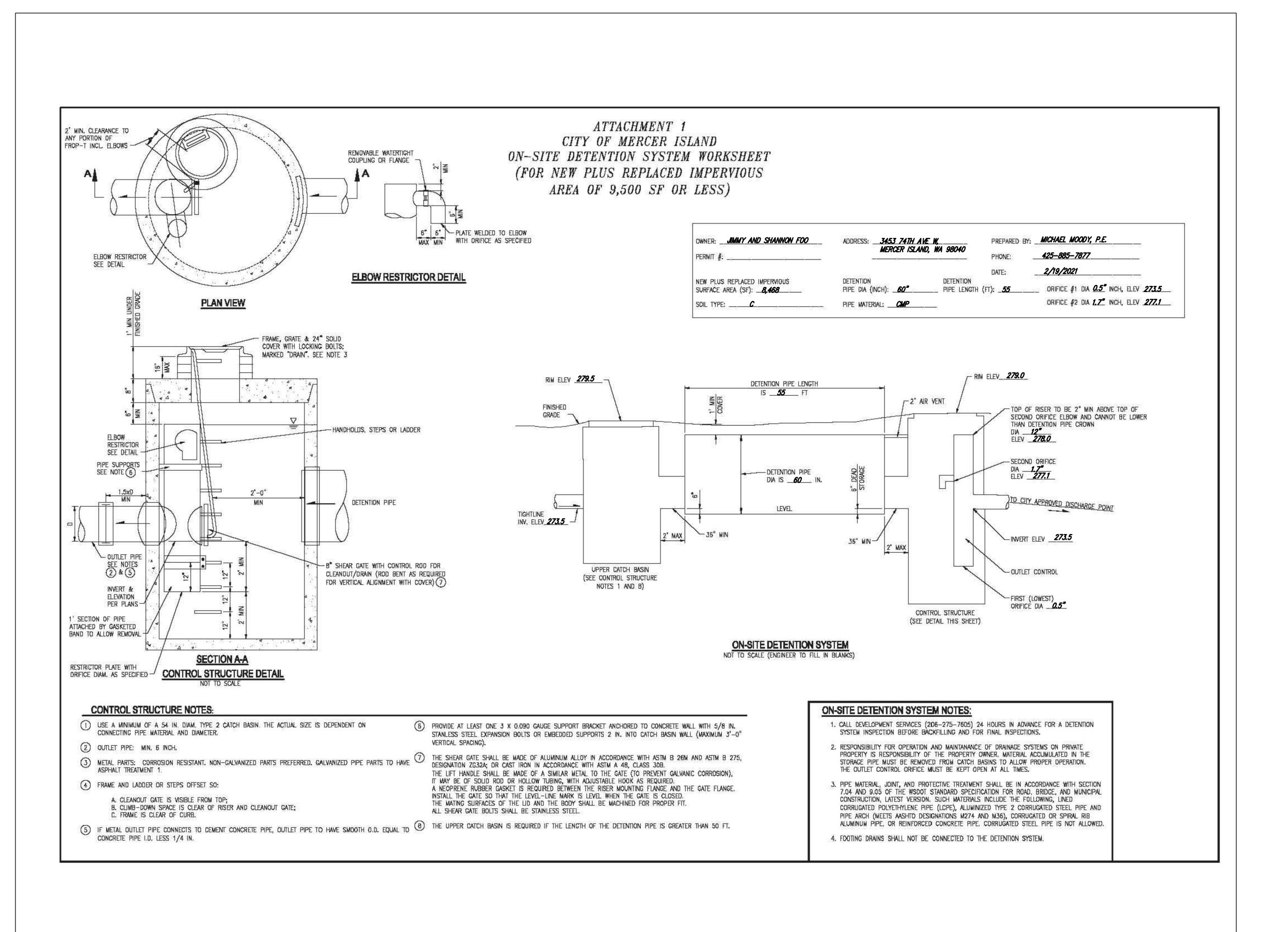
D MICHAEL A. MOODY, PE

JOSHUA BEARD

ROJECT MANAGER

SHEET OF **6**

PROJECT NUMBER **20034**



UNDERGROUND LOCATOR SERVICE CALL BEFORE YOU DIG! 811

74/L FOC 170 SHEET C1.31

PROJECT NUMBER

20034

CB 3 STORMWATER PUMP LIFT STATION DETAIL

NO SCALE

PUMP SPECIFICATIONS AND DETAILS

INSTALL (2) 1/2-HORSEPOWER THERMOPLASTIC SUBMERSIBLE SUMP PUMPS WITH SEPARATE TETHERED AUTOMATIC ON-OFF

MINIMUM PUMP REQUIREMENTS:

- DISCHARGE FLOW OF AT LEAST 55.6 GALLONS PER MINUTE (0.124 CFS FOR 25-YEAR STORM) AT 7 FEET DYNAMIC
- HEAD (PUMP "OFF" ELEVATION TO OUTLET ELEVATION AT FINISHED GRADE)

 MUST FUNCTION AUTOMATICALLY

 MUST BE SUBMERSIBLE

INSTALL DUPLEX PUMP ALTERNATOR WITH ALARM

PROVIDE ON-SITE BACK-UP POWER SUPPLY TO PUMP SYSTEM

PUMP SYSTEM SHALL BE OWNED, OPERATED, MAINTAINED, REPAIRED AND REPLACED (AS NEEDED) BY PROPERTY OWNERS SERVED BY SUCH SYSTEM.

PROPERTY OWNERS SERVED BY THE PUMP SYSTEM SHALL BE RESPONSIBLE FOR ANY AND ALL CLAIMS FOR INJURIES AND DAMAGE DUE TO THE OPERATION OR NON—OPERATION OF THE PUMP SYSTEM.

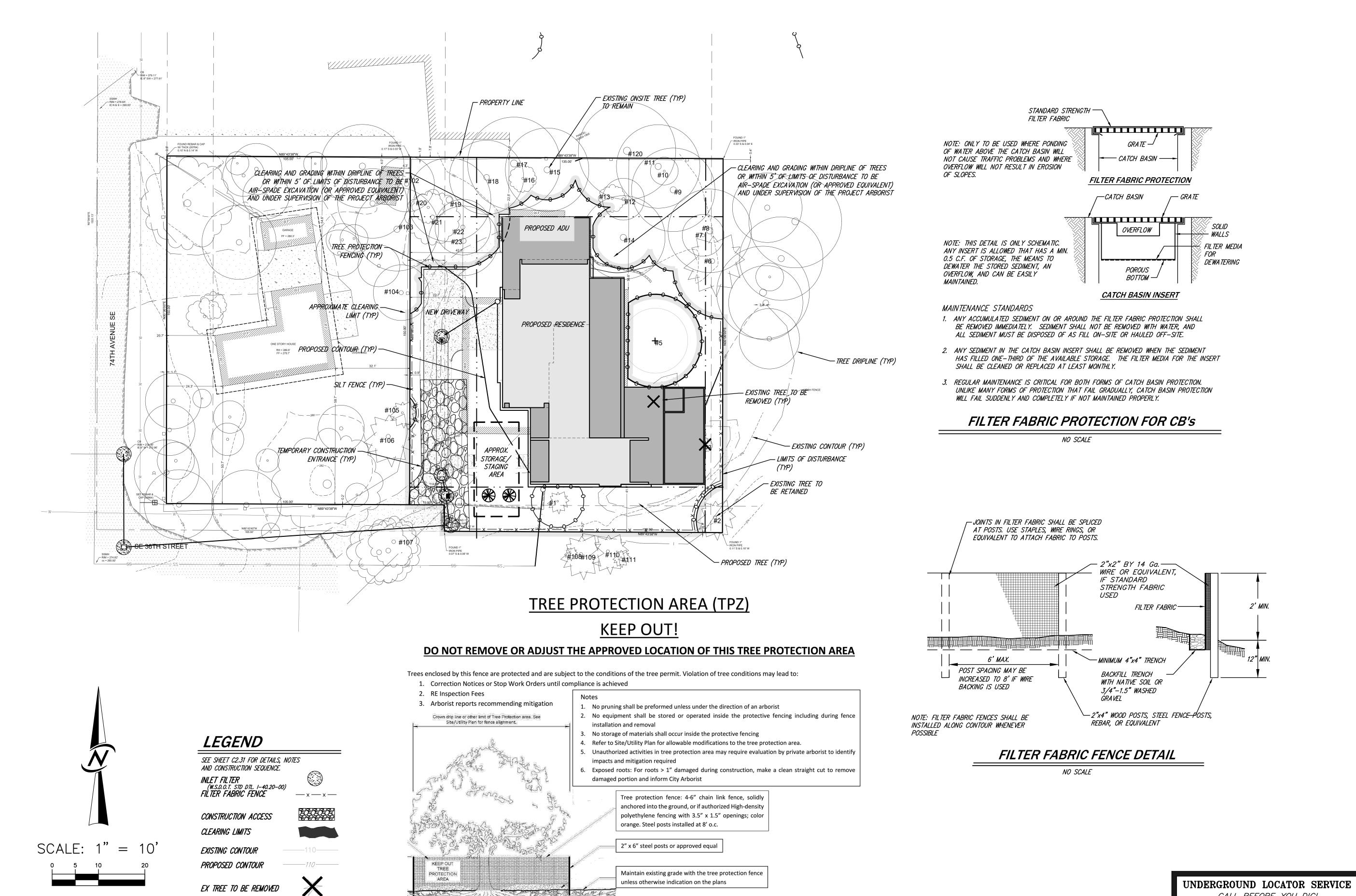
UNDERGROUND LOCATOR SERVICE CALL BEFORE YOU DIG! 811

PERMIT #XXXX-XXX

7411.S F F00

SHEET C1.32

PROJECT NUMBER 20034



Any Work in the protected area must be with the permission of the City Arborist john.kenney@mercergov.org

CALL BEFORE YOU DIG! SHEET C2.01 PROJECT NUMBER 20034

PERMIT #XXXX-XXX