GENERAL NOTES

THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND MAY BE REPRODUCED ONLY WITH THE WRITTEN PERMISSION OF THE ARCHITECT. AUTHORIZED REPRODUCTIONS MUST BEAR THE NAME OF THE ARCHITECT. THESE DRAWINGS ARE FULLY PROTECTED BY FEDERAL AND STATE COPYRIGHT LAWS. ANY INFRINGEMENT WILL BE VIGOROUSLY PROSECUTED.

ALL CONSTRUCTION SHALL CONFORM TO THE 2018 INTERNATIONAL RESIDENTIAL CODE (IRC) AS AMENDED BY THE STATE OF WASHINGTON AND BE IN ACCORDANCE WITH WASHINGTON STATE LAWS, REGULATIONS AND VARIOUS CODES IMPOSED BY LOCAL

DO NOT SCALE DRAWINGS OR DETAILS - USE GIVEN DIMENSIONS. CHECK DETAILS FOR LOCATION OF ALL ITEMS NOT

DOOR AND CASED OPENINGS WITHOUT DIMENSIONS ARE TO BE 4" FROM FACE OF ADJACENT WALL OR CENTERED BETWEEN WALLS, UNLESS NOTED OTHERWISE.

VERIFY FIELD CONDITIONS PRIOR TO COMMENCEMENT OF EACH PORTION OF THE WORK.

THE CONTRACTOR SHALL COORDINATE ALL PORTIONS OF THE WORK AS DESCRIBED IN THE CONTRACT DOCUMENTS. NOTIFY THE ARCHITECT FOR RESOLUTION OF ALL DISCREPANCIES PRIOR TO CONSTRUCTION.

CONTRACTORS RESPONSIBILITY:

CONTRACTOR TO VERIFY ALL DIMENSIONS AND STRUCTURAL MEMBER SIZES PRIOR TO CONSTRUCTION. CONTRACTOR TO INFORM ARCHITECT OF ANY DISCREPANCIES IN THE DRAWINGS OR FROM THE CODES.

CONTRACTOR INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE OWNER / ARCHITECT AND STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED SAFETY PRECAUTIONS AND THE METHODS. TECHNIQUES. SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE WORK.

ALL STRUCTURAL SYSTEMS SUCH AS WOOD 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. CONTRACTOR TO COORDINATE FRAMING LAYOUT WITH ELECTRICAL AND MECHANICAL PLAN.

UNLESS A SOILS REPORT BY A SOILS ENGINEER IS PROVIDED AND ATTACHED THIS OFFICE ASSUMES NO RESPONSIBILITY AS TO THE PHYSICAL CHARACTERISTICS OF THE SOIL, FOUNDATION DESIGN IS BASED ON AN ASSUMED AVERAGE SOIL BEARING OF 2.000 PSF. ALL FOOTINGS SHALL BE CAST ON UNDISTURBED FIRM NATURAL SOIL OR COMPACTED SOIL OF 2,000 PSF BEARING CAPACITY AT LEAST 1'-6" BELOW LOWEST ADJACENT GRADE, FREE OF ORGANIC MATERIALS. FOOTING EXCAVATION SHALL BE FREE OF LOOSE SOILS, DEBRIS, AND FREE OF WATER AT ALL TIMES. THIS OFFICE TAKES NO RESPONSIBILITY IN VERIFYING THE ACCURACY OF ENGINEERING DATA SUPPLIED BY OTHERS.

CLEARING AND GRADING (T.E.S.C. MEASURES):

ALL CLEARING AND GRADING MUST BE IN ACCORDANCE WITH LOCAL JURISDICTION CLEARING AND GRADING EROSION CONTROL STANDARDS, DEVELOPMENT STANDARDS, LAND USE CODE, INTERNATIONAL RESIDENTIAL CODE, PERMIT CONDITIONS, AND ALL DTHER APPLICABLE CODES, ORDINANCES AND STANDARDS. THE DESIGN ELEMENTS WITH THESE PLANS HAVE BEEN REVIEWED TO THESE REQUIREMENTS. ANY VARIANCE FROM THE ADOPTED EROSION CONTROL STANDARDS IS NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY THE LOCAL JURISDICTION PRIOR TO CONSTRUCTION.

A COPY OF THE APPROVED PLANS MUST BE ON-SITE WHENEVER CONSTRUCTION IS IN PROGRESS. THE APPLICANT IS RESPONSIBLE FOR OBTAINING ANY OTHER REQUIRED OR RELATED PERMITS PRIOR TO BEGINNING CONSTRUCTION.

ALL LOCATIONS OF EXISTING UTILITIES HAVE BEEN ESTABLISHED BY FIELD SURVEY OR OBTAINED FROM AVAILABLE RECORDS AND SHOULD, THEREFORE, BE CONSIDERED ONLY APPROXIMATE AND NOT NECESSARILY COMPLETE. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS AND TO DISCOVER AND AVOID ANY OTHER UTILITIES NOT SHOWN WHICH MAY BE EFFECTED BY THE WORK.

FINAL SITE DRAINAGE MUST DIRECT DRAINAGE AWAY FROM ALL BUILDING STRUCTURES AT A MINIMUM OF 6" WITHIN THE FIRST 10'.

CRAWL SPACE:

UNDER-FLOOR AREAS SHALL BE VENTED BY AN APPROVED MECHANICAL MEANS OR BY OPENINGS IN EXTERIOR FOUNDATION WALLS. SUCH OPENINGS SHALL HAVE A NET AREA OF NOT LESS THAN 1 SQ. FT. FOR EACH 150 SQ. FT. OF UNDER-FLOOR AREA. ONE OPENING SHALL BE WITHIN 3' OF EACH CORNER OF THE BUILDING. Ref IRC R408.2

CRAWL SPACE, UNOBSTRUCTED ACCESS, MINIMUM 18" x 24". Ref IRC R408.4

PROVIDE 18" MINIMUM CRAWL SPACE UNDER WOOD JOIST AND 12" MINIMUM CRAWL SPACE UNDER WOOD GIRDERS. Ref IRC

A GROUND COVER VAPOR BARRIER OF MIN. 6 MIL. (0.006") POLYETHYLENE (0R EQUIVALENT) SHALL BE INSTALLED IN ALL CRAWL SPACES, JOINTS LAPPED 12", EXTEND UP FOUNDATION WALL AND SECURE TO SILL PLATE WHEREVER PRACTICAL.

ALL WOOD IN CONTACT WITH CONCRETE, CMU OR WITHIN 8" OF SOILS SHALL BE PRESSURE TREATED WOOD. Ref IRC R317.1

OPENINGS FROM A PRIVATE GARAGE DIRECTLY INTO A ROOM USED FOR SLEEPING PURPOSES SHALL NOT BE PERMITTED. DOORS BETWEEN GARAGE AND DWELLING SHALL BE SOLID WOOD DOORS; MINIMUM 1 3/8" THICK WITH SELF CLOSING DEVICE. Ref

SEPARATION FROM DWELLING TO GARAGE. SHOP OR SIMILAR AREAS SHALL BE SEPARATED FROM RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAN 1/2" GYPSUM BOARD APPLIED TO THE GARAGE SIDE. GARAGES BENEATH HABITABLE ROOMS SHALL BE SEPARATED FROM ALL 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. Ref IRC R302.6 & TABLE 302.6

HEATING AND/OR COOLING EQUIPMENT LOCATED IN GARAGE SHALL BE INSTALLED WITH PILOTS AND BURNERS OR HEATING ELEMENTS AND SWITCHES AT LEAST 18" ABOVE THE FLOOR LEVEL. Ref IRC G2408.2

FACTORY-BUILTFIREPLACES SHALL BE LISTED AND LABELED AND SHALL BE INSTALLED IN ACCORDANCE WITH THE CONDITIONS OF THE LISTING. FACTORY-BUILTFIREPLACES SHALL BE TESTED IN ACCORDANCE WITH UL 127. Ref IRC R1004.1

MASONRY FIREPLACES, BARBECUES, SMOKE CHAMBERS AND FIREPLACE CHIMNEYS SHALL BE CONSTRUCTED OF MASONRY OR REINFORCED CONCRETE. FOUNDATIONS SHALL BE MIN. 12" THICK AND EXTEND MIN. 6" BEYOND MASONRY. FIREBOX WALLS MIN 10" THICK EXCEPT MIN. 8" THICK WHERE A FIREBRICK LINING IS USED. COMBUSTIBLE MATERIALS SHALL NOT BE PLACED WITHIN 2 INCHES OF FIREPLACE, SMOKE CHAMBER OR CHIMNEY WALLS. COMBUSTIBLE MATERIAL SHALL NOT BE PLACED WITHIN 6" OF THE FIREPLACE OPENING. MIN. 4" THICK NON-COMBUSTIBLE HEARTH EXTENDING 16" IN FRONT AND 8" TO THE SIDE OF THE FIREPLACE OPENING. COMBUSTIBLE MATERIAL WITHIN 12" OF THE FIREPLACE OPENING SHALL NOT PROJECT MORE THAN 1/8" FOR EACH 1" DISTANCE FROM SUCH OPENING. Ref IRC R1001 - R1003

CEILING HEIGHTS:

HABITABLE SPACE SHALL HAVE A CEILING HEIGHT OF NOT LESS THAN 7'-0". NOT MORE THAN 50% OF REQUIRED FLOOR AREA OF A SPACE IS PERMITTED TO HAVE A SLOPED CEILING LESS THAN 7'-0" IN HEIGHT WITH NO PORTION LOWER THAN 5'-0". BATHROOM SHALL HAVE A MIN CEILING HEIGHT OF 6'-8" OVER THE FIXTURE AND ITS FRONT CLEARANCE AREA. Ref IRC R305

APPLY ROOFING IN ACCORDANCE WITH IRC R905.

BALCONIES, LANDINGS, EXTERIOR STAIRWAYS, OCCUPIED ROOFS AND SIMILAR SURFACES EXPOSED TO THE WEATHER AND SEALED UNDERNEATH SHALL BE WATERPROOFED AND SLOPED A MINIMUM OF 1/4" PER 12" (2% SLOPE) FOR DRAINAGE.

PROVIDE ATTIC VENTILATION AS INDICATED ON ROOF FRAMING PLANS. THE MINIMUM NET FREE VENTILATING AREA SHALL BE 1/150 OF THE AREA OF THE VENTED SPACE. EXCEPTION: THE MINIMUM NET FREE VENTILATION AREA SHALL BE 1/300 OF THE VENTED SPACE PROVIDED NOT LESS THAN 40 PERCENT AND NOT MORE THAN 50 PERCENT OF THE REQUIRED VENTILATING AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE ATTIC OR RAFTER SPACE. UPPER VENTILATORS SHALL BE LOCATED NOT MORE THAN 3 FEET BELOW THE RIDGE OR HIGHEST POINT OF THE SPACE, MEASURED VERTICALLY, WITH THE BALANCE OF THE REQUIRED VENTILATION PROVIDED BY EAVE OR CORNICE VENTS. Ref IRC R806.2

ATTIC ACCESS SHALL HAVE A ROUGH FRAMED OPENING NOT LESS THAN 22 INCHES BY 30 INCHES LOCATED IN A READILY ACCESSIBLE LOCATION. THE MINIMUM UNOBSTRUCTED HEADROOM IN THE ATTIC SPACE SHALL BE 30 INCHES MEASUREI VERTICALLY FROM THE BOTTOM OF THE CEILING FRAMING MEMBERS. Ref IRC R807. FOR ACCESS REQUIREMENTS WHERE

TO BE IN COMPLIANCE WITH IRC R308 AND WASHINGTON STATE SAFETY GLASS LAW.

GLAZING IN HAZARDOUS LOCATIONS SUCH AS GLASS ON DOORS, GLAZING WITHIN 24" ON EITHER SIDE OF A DOOR OPENING, AREAS WITHIN 60" VERTICAL AND 36" HORIZONTAL OF THE BOTTOM LANDING OF A STAIRWAY, STORM DOORS, RAILINGS, SHOWER DOORS. SLIDING GLASS DOORS, AND TUB ENCLOSURES SHALL BE SAFETY GLAZING MATERIAL. Ref IRC R308.4

ALL EXTERIOR WALL GLAZING SHALL COMPLY WITH THE 2018 EDITION OF THE WASHINGTON STATE ENERGY CODE.

EGRESS IN EVERY SLEEPING ROOM SHALL HAVE AT LEAST ONE OPERABLE EMERGENCY EXIT WITH A MINIMUM NET CLEAR OPENING OF 5.7 SQ. FT. THE MINIMUM NET CLEAR OPENING HEIGHT DIMENSION SHALL BE 24" MINIMUM NET CLEAR OPENING WIDTH DIMENSION OF 20" AND A FINISHED SILL HEIGHT NOT MORE THAN 44" ABOVE THE FLOOR. IRC R310.1.

ONE EXIT DOOR CONFORMING TO IRC R311.2 IS REQUIRED.

FIRE & CARBON MONOXIDE PROTECTION:

SMOKE & CARBON MONOXIDE DETECTOR POWER SOURCES TO BE INSTALLED IN ACCORDANCE WITH NFPA 72, IRC R314 & IRC R315. ALL ALARM DEVICES SHALL BE INTERCONNECTED PER IRC R314.1

FIREBLOCKING PER IRC R1003.19, R1001.12, R302.11 & R602.8. DRAFTSTOPPING PER IRC R302.12 & R502.12.

VENTILATION & LIGHTING:

HABITABLE ROOMS NOT PROVIDED WITH AN OPENABLE EXTERIOR OPENING OF AT LEAST 4% OF THE FLOOR AREA, A MECHANICAL VENTILATION SYSTEM MUST BE PROVIDED THAT PROVIDES MIN. .35 AIR CHANGES PER HOUR. IRC R303.1. DRYER & BATH FANS TO BE 50 CFM, AND RANGE/OVEN FANS TO BE 100 CFM MIN, VENT TO THE OUTSIDE. IRC303 AND 2006 WA

NATURAL LIGHTING TO BE NOT LESS THAN 8% OF THE FLOOR AREA OR ALL HABITABLE SPACES. IRC R303.

MINIMUM HEADROOM OF 6'-8" MEASURED VERTICALLY FROM A SLOPED PLANE ADJOINING THE TREAD NOSING OR FROM THE FLOOR SURFACE OR PLATFORM, IRC R311.7.2 MINIMUM WIDTH 36". IRC 311.7.1

MINIMUM TREAD 10", MAXIMUM RISER 7 3/4", HANDRAIL MINIMUM 34" AND MAXIMUM 38" ABOVE STAIR NOSING. HANDRAIL TO BE 1 1/4" TO 2" CROSS SECTION AND 1 1/2" AWAY FROM WALL. IRC R311.7.5 & 311.7.8. INSTALL FIRE BLOCKING AT MID STRINGER SPAN AND AT WALL ALONG STRINGER. COVER WALLS AND SOFFITS OF USABLE SPACE UNDER STAIR WITH 1/2" GYPSUM BOARD. IRC

GUARDRAILS: ANY WALKING SURFACE 30" OR MORE ABOVE GRADE OR ADJACENT SURFACE SHALL HAVE MIN. 36" HIGH

BATHROOMS:

ALL TUB AND SHOWER STALLS SHALL HAVE FIREBLOCKING BETWEEN STUDS.

ALL GLAZING USED FOR DOORS OR ENCLOSURES IN BATHROOMS SHALL BE SAFETY GLAZING. GLAZING IN ANY PORTION OF A BUILDING WALL ENCLOSING A SHOWER OR BATHTUB WHERE THE BOTTOM EXPOSED EDGE IS LESS THAN 60 INCHES ABOVE THE STANDING SURFACE AND DRAIN INLET SHALL BE SAFETY GLAZING. IRC R308.4

BATH TUB & SHOWER STALL NON-ABSORBENT WAINSCOTS SHALL BE A MINIMUM OF 72 INCHES ABOVE THE FLOOR. IRC R307.2. WATERCLOSETS SHALL HAVE MIN. 15" TO SIDE WALLS FROM CENTER OF FIXTURE, AND MIN. 21" FRONT CLEARANCE. IRC R307.1 APPLIANCES IN A FIXED POSITION SHALL BE SECURELY FASTENED IN PLACE TO STRUCTURAL MEMBERS WITH STRAP ANCHORS OR SIMILAR ANCHORING METHOD.

WANG & YANG ADU

6450 E MERCER WAY MERCER ISLAND, WA 98040



PROJECT DIRECTORY

GENERAL CONTRACTOR

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CIVIL ENGINEER

Merit Engineering Attn: Di Zhu

10129 Main St., #201, Bellevue, WA 98004 253.391.7441

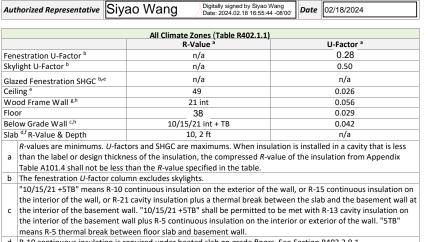
merit@meritengineering.com

ARBORIST

Tree Solutions Attn: Charlie Vogelheim

2940 Westlake Ave N #200, Seattle, WA 98109 206.528.4670 charlie@treesolutions.net

Instructions: This single-family project will use the requirements of the Prescriptive Path below and incorporate the minimum values listed. Based on the size of the structure, the appropriate number of



Provide all information from the following tables as building permit drawings: Table R402.1 - Insulation and

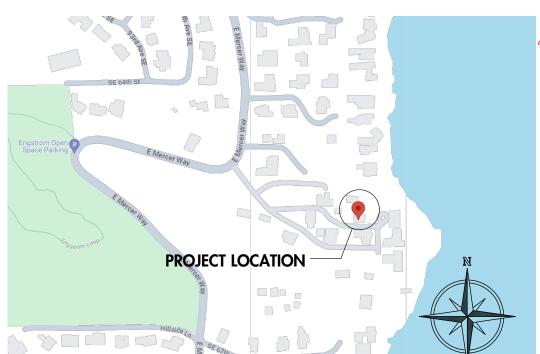
d R-10 continuous insulation is required under heated slab on grade floors. See Section R402.2.9.1. For single rafter- or joist-vaulted ceilings, the insulation may be reduced to R-38 if the full insulation depth extends over the top plate of the exterior wall. R-7.5 continuous insulation installed over an existing slab is deemed to be equivalent to the required perimeter

f slab insulation when applied to existing slabs complying with Section R503.1.1. If foam plastic is used, it shall meet the requirements for thermal barriers protecting foam plastics. or log structures developed in compliance with Standard ICC 400, log walls shall meet the requirements for climate zone 5 of ICC 400. Int. (intermediate framing) denotes framing and insulation as described in Section A103.2.2 including standard h framing 16 inches on center, 78% of the wall cavity insulated and headers insulated with a minimum of R-10

Credits - select ONE heating option **User Notes** Heat pump^c Electric resistance heat only - furnace or zonal DHP with zonal electric resistance per option 3.4 All other heating systems energy option from eac 1.1 Efficient Building Envelope Efficient Building Envelope Efficient Building Envelope 1.4 Efficient Building Envelope 1.5 Efficient Building Envelope Efficient Building Envelope Efficient Building Envelope Air Leakage Control and Efficient Ventilation 2.2 Air Leakage Control and Efficient Ventilation 2.3 Air Leakage Control and Efficient Ventilation 2.4 Air Leakage Control and Efficient Ventilation 3.1^a High Efficiency HVA(3.2 High Efficiency HVA 3.3a High Efficiency HVA 3.4 High Efficiency HVAC 3.5.1 High Efficiency HVAC 3.5.2 High Efficiency HVAC 3.6^a High Efficiency HVAC 4.1 High Efficiency HVAC Distribution System

| | Summary of Table | R406.2 (co | nt.) | | | |
|----------------|-------------------------------------------|------------|-----------------------------------------------|-----------------|----------|------------|
| rgy ions | Energy Credit Option Descriptions (cont.) | | elect ONE tion from tegory ^d | U | ser Note | es |
| 1 ^d | Efficient Water Heating | 0.5 | | | | |
| 2 | Efficient Water Heating | 0.5 | • | | | |
| 3 | Efficient Water Heating | 1.0 | | | | |
| 4 | Efficient Water Heating | 1.5 | | | | |
| 5 | Efficient Water Heating | 2.0 | | | | |
| 6 | Efficient Water Heating | 2.5 | | | | |
| 1 ^e | Renewable Electric Energy (3 credits max) | 1.0 | | | | |
| 1 | Appliance Package | 0.5 | | | | |
| | Total Credits | | 3.0 | Calculate Total | | Clear Form |
| | | | | | | |

VICINITY MAP



DRAWING INDEX

WET SEASON WORK

PROJECT ADDRESS

MERCER ISLAND, WA 98040

LEGAL DESCRIPTION & TAX PARCEL NUMBER

POR OF GL 1 IN NE 1/4 BEG ON S LN OF N 498 FT OF SD GL 1646.58 FT E OF W LN SD NE

grade plane are allowed per IBC Table 504.4 when structural design is in accordance with 2018 IBC)

REQUIRED

R-3 (SINGLE FAMILY RESIDENCE)

FULL COVERAGE NFPA 13D

(DEFERRED SUBMITTAL)

(DEFERRED SUBMITTAL)

4. SOLID CORE DOORS

3 STORIES ABOVE GRADE PLANE (4 Stories above

1. UPGRADED FULL COVERAGE NFPA 13D

2. MONITORED FIRE ALARM SYSTEM

3. 1-HR RATED GYPSUM IN ALL AREAS

* SEE FIRE CODE ALTERNATE REQUEST

2018 INTERNATIONAL RESIDENTIAL CODE (IRC)

89.64 FT TH N 88-35-33 W 171.49 FT TH N 38-38-53 W 117.36 FT TO SD N 498 FT TH S

6450 E MERCER WAY

1/4 TH S 01-25-38 W

88-35-15 E 251.89 FT TO

TAX PARCEL NUMBER: 302405-9004

ZONING CLASSIFICATION

BUILDING CLASSIFICATION

ALLOWABLE FLOOR AREA (IBC Table 506.2)

ALLOWABLE NO. OF STORIES (IRC R101.2)

ALLOWABLE BLDG HT IN FEET (IBC Table 504.3) 60'

BUILDING AREA CALCULATIONS

BUILDING HEIGHT CALCULATIONS

REFER TO SHEET A1.02 FOR HEIGHT CALCULATIONS

WET SEASON WORK IS NOT ALLOWED. REFER TO GEOTECHNICAL REPORT.

REFER TO SHEET A1.05 FOR GROSS FLOOR AREA CALCS

OCCUPANCY (IBC Chapter 3 & 4) CONSTRUCTION TYPE (IBC 602.5)

FIRE PROTECTION SYSTEM

ALTERNATIVE FIRE PROTECTIONS

SPRINKLERS

COMPLIANCE WITH

ARCHITECTURAL

A1.00B SURVEY

ARCHITECTURAL DEMO SITE PLAN

ARCHITECTURAL PROPOSED SITE PLAN LOT COVERAGE DIAGRAMS A HARDSCAPE DIAGRAM

GROSS FLOOR AREA & IMPERVIOUS LANDSCAPING PLAN

MAIN FLOOR PLAN UPPER FLOOR PLAN >A2.03 **ROOF PLAN**

EXTERIOR ELEVATIONS **BUILDING SECTIONS**

WALL SECTIONS DOOR AND WINDOW SCHEDULES

STRUCTURAL

C02.1

GENERAL STRUCTURAL NOTES/SHEET INDEX **GENERAL STRUCTURAL NOTES**

WOOD FRAMING DETAILS

FOUNDATION PLAN

UPPER FLOOR FRAMING PLAN S2.2 ROOF FRAMING PLAN

FOUNDATION DETAILS FRAMING SCHEDULES

FLOOR FRAMING DETAILS ROOF FRAMING DETAILS

DRAINAGE SITE PLAN C02 TESC PLAN

TESC DETAILS

COVER SHEET

Project Manager: 6/13/2024

DATE REVISION 10/17/2023 STRUCTURAL 12/01/2023 STRUCTURAL REV 1 12/07/2023 PRICING 12/16/2023 PRE-APP MEETING #2

02/25/2024 BUILDING PERMIT 06/13/2024 BUILDING PERMIT REV

BEGINNING AT THE NORTH QUARTER OF SAID SECTION 30; THENCE SOUTH 1'25'38" WEST ALONG THE WEST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 30, A DISTANCE OF 498.00

THENCE SOUTH 88'32'59" EAST, PARALLEL TO THE NORTH LINE OF SAID NORTHEAST QUARTER, 1,646.58 FEET TO THE TRUE POINT OF

THENCE SOUTH 01'25'38" WEST 89.64 FEET TO THE NORTH LINE OF GREGORY ADDITION, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 72 OF PLATS, PAGE 69, IN KING COUNTY, WASHINGTON; THENCE NORTH 88'35'33" WEST ALONG SAID NORTH LINE 171.49

THENCE NORTH 38'38'53" WEST 117.36 FEET TO THE SOUTH LINE OF SAID NORTH 498.00 FEET; THENCE SOUTH 88'3515" EAST 251.89 FEET TO THE TRUE POINT OF BEGINNING.

TOGETHER WITH AN EASEMENT FOR INGRESS AND EGRESS OVER THAT PORTION OF THE NORTH HALF OF THE NORTH HALF OF THAT PORTION OF PORTION OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER AND OF GOVERNMENT LOT 1 OF SAID SECTION 30, LYING BETWEEN THE NORTH 498.00 FEET THEREOF, AND THE SOUTH 471.00 FEET THEREOF DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTH QUARTER CORNER OF SAID SECTION 30: THENCE SOUTH 01'25'38" WEST, ALONG THE WEST LINE OF SAID NORTHEAST QUARTER, 498.00 FEET; THENCE SOUTH 88'32'59" EAST, PARALLEL TO THE NORTH LINE OF SAID NORTHEAST QUARTER, 1,133.27 FEET TO THE TRUE POINT OF

THENCE CONTINUING SOUTH 88'32'59" EAST 274.49 FEET; THENCE SOUTH 38'38'53" EAST 104.58 FEET TO THE SOUTH LINE OF THE NORTH 578.00 FEET OF SAID GOVERNMENT LOT 1;

THENCE SOUTH 27'49'11" WEST 10.91 FEET; THENCE NORTH 38'38'53" WEST 104.52 FEET; THENCE NORTH 88'3533" WEST 260.25 FEET, MORE OF LESS, TO A

POINT FROM WHICH THE TRUE POINT OF BEGINNING BEARS NORTH 41'49'00" WEST; THENCE NORTH 41'49'00" WEST 13.76 FEET, MORE LESS, TO THE

TRUE POINT OF BEGINNING; EXCEPTING THEREFROM THAT PORTION LYING WITHIN THE ABOVE DESCRIBED MAIN TRACT.

BASIS OF BEARINGS

REFERENCES

VERTICAL DATUM

VICINITY MAP

N.T.S.

DESCRIPTION: SET NAIL AT NORTH BASE OF POWER POLE

LOCATION: 6' EAST OF SW PROPERTY CORNER

ACCEPTED A BEARING OF N 80°02'58" E BETWEEN SURVEY

MONUMENTS FOUND AND SHOWN HEREON.

R1. RECORD OF SURVEY, VOL. 022, PG. 021.

R2. RECORD OF SURVEY, VOL. 017, PG. 168.

R3. RECORD OF SURVEY, VOL. 014, PG. 031.

R4. RECORD OF SURVEY, VOL. 097, PG. 160.

NAVD 88 PER GPS OBSERVATIONS

ELEVATION: 63.88'

RECORDS OF KING COUNTY, WASHINGTON.

RECORDS OF KING COUNTY, WASHINGTON

RECORDS OF KING COUNTY, WASHINGTON

RECORDS OF KING COUNTY, WASHINGTON. R5. PLAT OF GREGORY ADDITION, VOL. 72 OF PLATS, PG 66, KING COUNTY WASHINGTON

SITUATE IN THE COUNTY OF KING, STATE OF WASHINGTON.

TOPOGRAPHIC & BOUNDARY SURVEY

ELEVATIONS.

SCHEDULE B ITEMS SCHEDULE B ITEMS

"PLOTTED"

"NOT SURVEY RELATED"

"CURRENT CONDITIONS SHOWN"

EASEMENT, EXCEPTIONS AND RESERVATIONS CONTAINED IN

PURPOSE: USE ROAD AND TO LAY AND MAINTAIN WATER PIPELINES RECORDED: MAY 23, 1927 RECORDING NO.: 2355301 "LOCATION UNSPECIFIED"

2. EASEMENT AND THE TERMS AND CONDITIONS THEREOF: IN FAVOR OF: PUGET SOUND & LIGHT COMPANY, A WASHINGTON CORPORATION

PURPOSE: CONSTRUCT, OPERATE, MAINTAIN, REPAIR, REPLACE AND ENLARGE AN UNDERGROUND ELECTRIC TRANSMISSION AND/OR DISTRIBUTION SYSTEM UPON AND UNDER THE RIGHT-OF-WAY TOGETHER WITH ALL NECESSARY OR CONVENIENT APPURTENANT THEREFOR, WHICH MAY INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING: UNDERGROUND CONDUITS, CABLES, COMMUNICATION LINES; VAULTS, MANHOLES, SWITCHES AND TRANSFORMERS; AND SEMI-BURIED OR GROUND MOUNTED FACILITIES. RECORDED: MARCH 29, 1938

RECORDING NO: 2990205 "AS CONSTRUCTED"

3. EASEMENT AND THE TERMS AND CONDITIONS THEREOF: IN FAVOR OF: PUGET SOUND & LIGHT COMPANY, A WASHINGTON

PURPOSE: CONSTRUCT, OPERATE, MAINTAIN, REPAIR, REPLACE AND ENLARGE AN UNDERGROUND ELECTRIC TRANSMISSION AND/OR DISTRIBUTION SYSTEM UPON AND UNDER THE RIGHT-OF-WAY TOGETHER WITH ALL NECESSARY OR CONVENIENT APPURTENANT THEREFOR, WHICH MAY INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING: UNDERGROUND CONDUITS, CABLES, COMMUNICATION LINES; VAULTS, MANHOLES, SWITCHES AND TRANSFORMERS; AND SEMI-BURIED OR GROUND MOUNTED FACILITIES. RECORDED: MARCH 29, 1938 RECORDING NO.: 2990210 "AS CONSTRUCTED"

4. EASEMENT FOR WATER PIPE LINES AND THE TERMS AND

CONDITIONS THEREOF: IN FAVOR OF: WATER DISTRICT NO. 93, KING COUNTY, WASHINGTON PURPOSE: INSTALLING, CONSTRUCTING, MAINTAINING, OPERATING, REPAIRING AND REPLACING THE WATER PIPE LINE OR LINES AND ALL NECESSARY CONNECTIONS AND APPURTENANCES; TOGETHER WITH THE RIGHT OF INGRESS AND EGRESS RECORDED: DECEMBER 17, 1959 RECORDING NO: 5113737 "PLOTTED"

5. EASEMENT AS DISCLOSED BY STATUTORY WARRANTY DEED PURPOSE: INGRESS AND EGRESS RECORDED: APRIL 25, 1962 RECORDING NO: 5417239

6. EASEMENT AS DISCLOSED BY QUIT CLAIM DEED PURPOSE: INGRESS AND EGRESS RECORDED: APRIL 28, 1969 RECORDING NO: 6502352

7. NOTICE OF ADDITIONAL TAP OR CONNECTION CHARGES RECORDING DATE: DECEMBER 6, 1977 RECORDING NO.: 7712060812

8. WAIVER AND COVENANT NOT TO SUE ON CONSTRUCTION RECORDING DATE: MAY 1, 1986 RECORDING NO.: 8605010369 "BLANKET IN NATURE"

9. COVENANTS, CONDITIONS, RESTRICTIONS, RECITALS, RESERVATIONS, EASEMENTS, EASEMENT PROVISIONS, DEDICATIONS, BUILDING SETBACK LINES, NOTES, STATEMENTS, AND OTHER MATTERS, IF ANY, BUT OMITTING ANY COVENANTS OR RESTRICTIONS, IF ANY, INCLUDING BUT NOT LIMITED TO THOSE BASED UPON RACE, COLOR, RELIGION, SEX, SEXUAL ORIENTATION, FAMILIAL STATUS, MARITAL STATUS, DISABILITY, HANDICAP, NATIONAL ORIGIN, ANCESTRY, OR SOURCE OF INCOME, AS SET FORTH IN APPLICABLE STATE OR FEDERAL LAWS, EXCEPT TO THE EXTENT THAT SAID COVENANT OR RESTRICTION IS PERMITTED BY APPLICABLE LAW, AS SET FORTH ON SURVEY: RECORDING NO: 20170526900002

1. THE TOPOGRAPHIC SURVEY SHOWN HEREON WAS PERFORMED IN APRIL OF 2023. THE FIELD DATA WAS COLLECTED AND RECORDED ON MAGNETIC MEDIA THROUGH AN ELECTRONIC THEODOLITE. THE DATA FILE IS ARCHIVED ON DISC OR CD. WRITTEN FIELD NOTES MAY NOT EXIST. CONTOURS ARE SHOWN FOR CONVENIENCE ONLY. DESIGN SHOULD RELY ON SPOT

SURVEYOR'S NOTES

2. ALL MONUMENTS SHOWN HEREON WERE LOCATED DURING THE COURSE OF THIS SURVEY UNLESS OTHERWISE NOTED.

3. THE TYPES AND LOCATIONS OF ANY UTILITIES SHOWN ON THIS DRAWING ARE BASED ON INFORMATION PROVIDED TO US, BY OTHERS OR GENERAL INFORMATION READILY AVAILABLE IN THE PUBLIC DOMAIN INCLUDING, AS APPLICABLE, IDENTIFYING MARKINGS PLACED BY UTILITY LOCATE SERVICES AND OBSERVED BY TERRANE IN THE FIELD. AS SUCH, THE UTILITY INFORMATION SHOWN ON THESE DRAWINGS ARE FOR INFORMATIONAL PURPOSES ONLY AND SHOULD NOT BE RELIED ON FOR DESIGN OR CONSTRUCTION PURPOSES; TERRANE IS NOT RESPONSIBLE OR LIABLE FOR THE ACCURACY OR COMPLETENESS OF THIS UTILITY INFORMATION. FOR THE ACCURATE LOCATION AND TYPE OF UTILITIES NECESSARY FOR DESIGN AND CONSTRUCTION, PLEASE CONTACT THE SITE OWNER AND THE LOCAL UTILITY LOCATE SERVICE (800-424-5555).

4. SUBJECT PROPERTY TAX PARCEL NO. 302405-9004

5. SUBJECT PROPERTY AREA PER THIS SURVEY IS 19,210 S.F. (0.44 ACRES)

6. ALL TITLE INFORMATION SHOWN ON THIS MAP HAS BEEN EXTRACTED FROM CHICAGO TITLE INSURANCE COMPANY'S "ALTA COMMITMENT", ORDER NO. 0200514-ETU, DATED FEBRUARY 4, 2021. IN PREPARING THIS MAP, TERRANE, INC. HAS CONDUCTED NO INDEPENDENT TITLE SEARCH NOR IS TERRANE, INC. AWARE OF ANY TITLE ISSUES AFFECTING THE SURVEYED PROPERTY OTHER THAN THOSE SHOWN ON THE MAP AND DISCLOSED BY THE REFERENCED "ALTA COMMITMENT". TERRANE, INC. HAS RELIED WHOLLY ON CHICAGO TITLE INSURANCE COMPANY'S REPRESENTATIONS OF THE TITLE'S CONDITION TO PREPARE THIS SURVEY AND TERRANE, INC. QUALIFIES THE MAP'S ACCURACY AND COMPLETENESS TO THAT EXTENT.

7. EXISTING STRUCTURE(S) LOCATION AND DIMENSIONS ARE MEASURED FROM THE FACE OF THE SIDING UNLESS OTHERWISE

8. FIELD DATA FOR THIS SURVEY WAS OBTAINED BY DIRECT FIELD MEASUREMENTS WITH A CALIBRATED ELECTRONIC 5-SECOND TOTAL STATION AND/OR SURVEY GRADE GPS OBSERVATIONS. ALL ANGULAR AND LINEAR RELATIONSHIPS ARE ACCURATE AND MEET THE STANDARDS SET BY WAC 332-130-090.

LEGEND ASPHALT SURFACE

BENCHMARK BOLO BOLLARD BRICK SURFACE BUILDING ---- CENTERLINE ROW SSCO CLEANOUT

CONCRETE SURFACE DECK X X FENCE LINE (CHAIN LINK) -x x x x FENCE LINE (WIRE) FENCE LINE (WOOD)

FIRE HYDRANT FLAGSTONE SURFACE G - GAS LINE G GAS METER

GRAVEL SURFACE PAVER SURFACE P POWER METER POWER (OVERHEAD) PPO POWER POLE

— — PROPERTY LINES (ADJACENT) REBAR & CAP (SET) REBAR AS NOTED (FOUND) RETAINING WALL

PROPERTY LINE (SUBJECT)

ROCKERY SIZE TYPE (AS NOTED) WM 🗆 WATER METER WATER VALVE ACU

AIR CONDITION UNIT CONC CONCRETE COR CORNER DEC DECIDUOUS ELEV ELEVATION

EVG EVERGREEN FINISH FLOOR LAND SURVEYOR NUMBER LS# PROP PROPERTY

RECORD DATA

EASEMENTS

INGRESS, EGRESS EASEMENT REC. NO. 5417239 WATER EASEMENT

REC. NO. 20221208000443 WATER PIPELINE EASEMENT

INGRESS, EGRESS EASEMENT L____ __ __ REC. NO. 6502352

REC. NO. 5113737

SEWER EASEMENT



S

BOUNDARY

230545 JOB NUMBER: 04/26/23 DRAFTED BY: JGM/DRT CHECKED BY: REVISION HISTORY 5/10/23 POWER LINES

 $\bigcirc \bigcirc \bigcirc$

SHEET NUMBER 1 OF 2

______ — N 1/4 COR SEC. 30-24-5 ARCHITECTURAL PROPOSED SITE PLAN APPROX. CENTERLINE OF BLACKTOP ROAD AND NON EXCLUSIVE EASEMENT FOR INGRESS AND EGRESS. -10' EASEMENT FOR WATER MAIN WIDTH UNSPECIFIED, PER QUIT CLAIM DEED REC NO. REC. NO. 20221208000443 5' EASEMENT FOR SEWER -N 88'32'59" W PER REC NO. 5417239 N 88'35'33" W EASEMENT FOR INGRESS AND EGRESS N 88'35'30" W 224.97' _455.99'_MEAS._ — -NON-EXCLUSIVE EASEMENT FOR INGRESS AND EGRESS-PER LEGAL DESCRIPTION AND PER REC NO 5417239 FOUND IRON PIPE -LS# 20764 ON PROP LINE 1424.52' VISITED 4/24/18 APPROX. LOCATION OF 10' WATER PIPELINE EASEMENT PER REC NO 5113737 222.06' N 88'38'07" W FOUND IRON PIPE (EASEMENT CENTERED ON PIPE LINE) (HELD FOR LOCATION) VISITED 4/24/18

STEEP SLOPE/BUFFER DISCLAIMER:

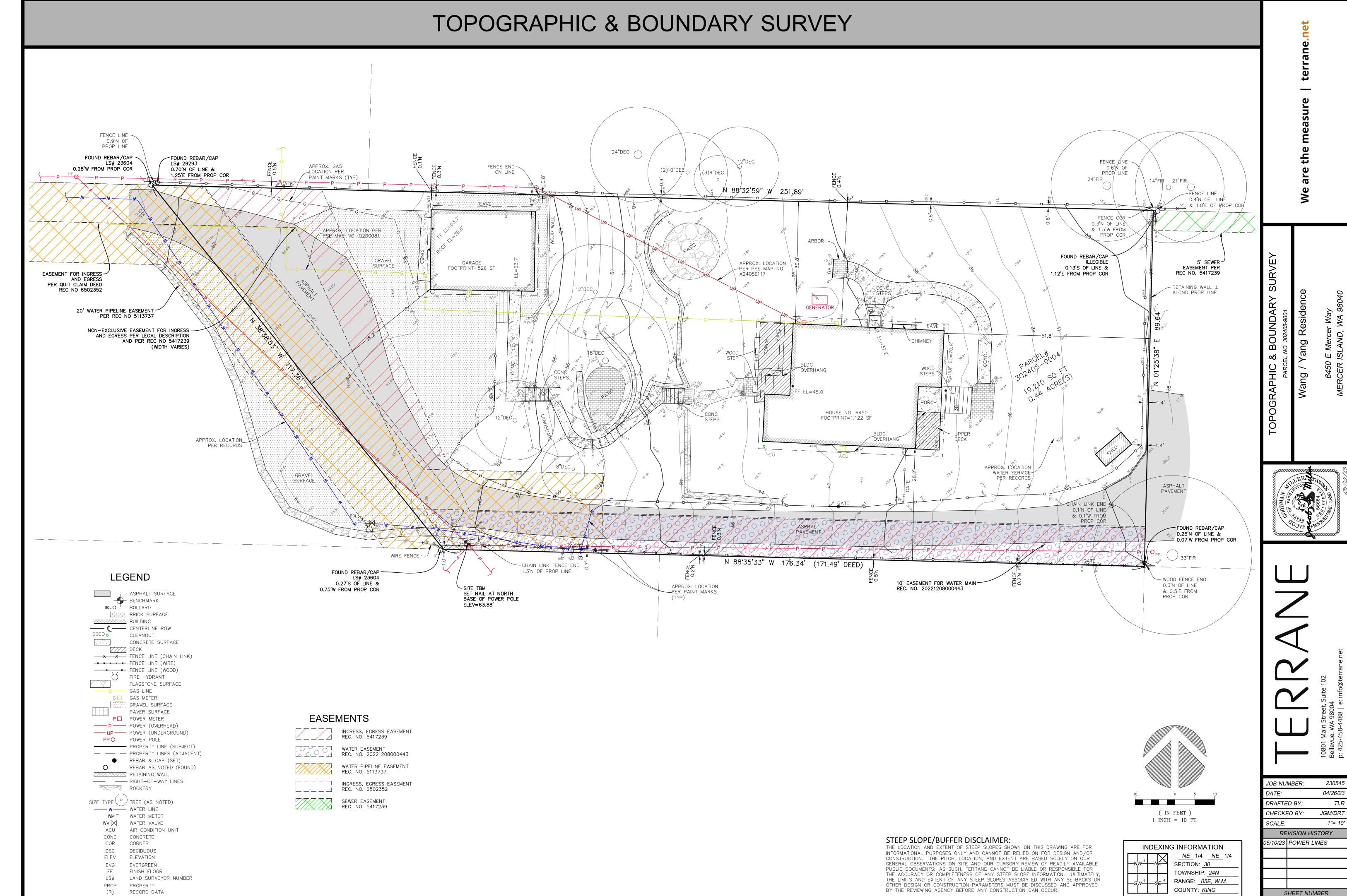
INFORMATIONAL PURPOSES ONLY AND CANNOT BE RELIED ON FOR DESIGN AND/OR CONSTRUCTION. THE PITCH, LOCATION, AND EXTENT ARE BASED SOLELY ON OUR GENERAL OBSERVATIONS ON SITE AND OUR CURSORY REVIEW OF READILY AVAILABLE PUBLIC DOCUMENTS; AS SUCH, TERRANE CANNOT BE LIABLE OR RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ANY STEEP SLOPE INFORMATION. ULTIMATELY, THE LIMITS AND EXTENT OF ANY STEEP SLOPES ASSOCIATED WITH ANY SETBACKS OR OTHER DESIGN OR CONSTRUCTION PARAMETERS MUST BE DISCUSSED AND APPROVED BY THE REVIEWING AGENCY BEFORE ANY CONSTRUCTION CAN OCCUR.

THE LOCATION AND EXTENT OF STEEP SLOPES SHOWN ON THIS DRAWING ARE FOR



INDEXING INFORMATION <u>NE</u> 1/4 <u>NE</u> 1/4 SECTION: 30 TOWNSHIP: 24N RANGE: 05E, W.M.

COUNTY: KING



2 OF 2

ROCKERY

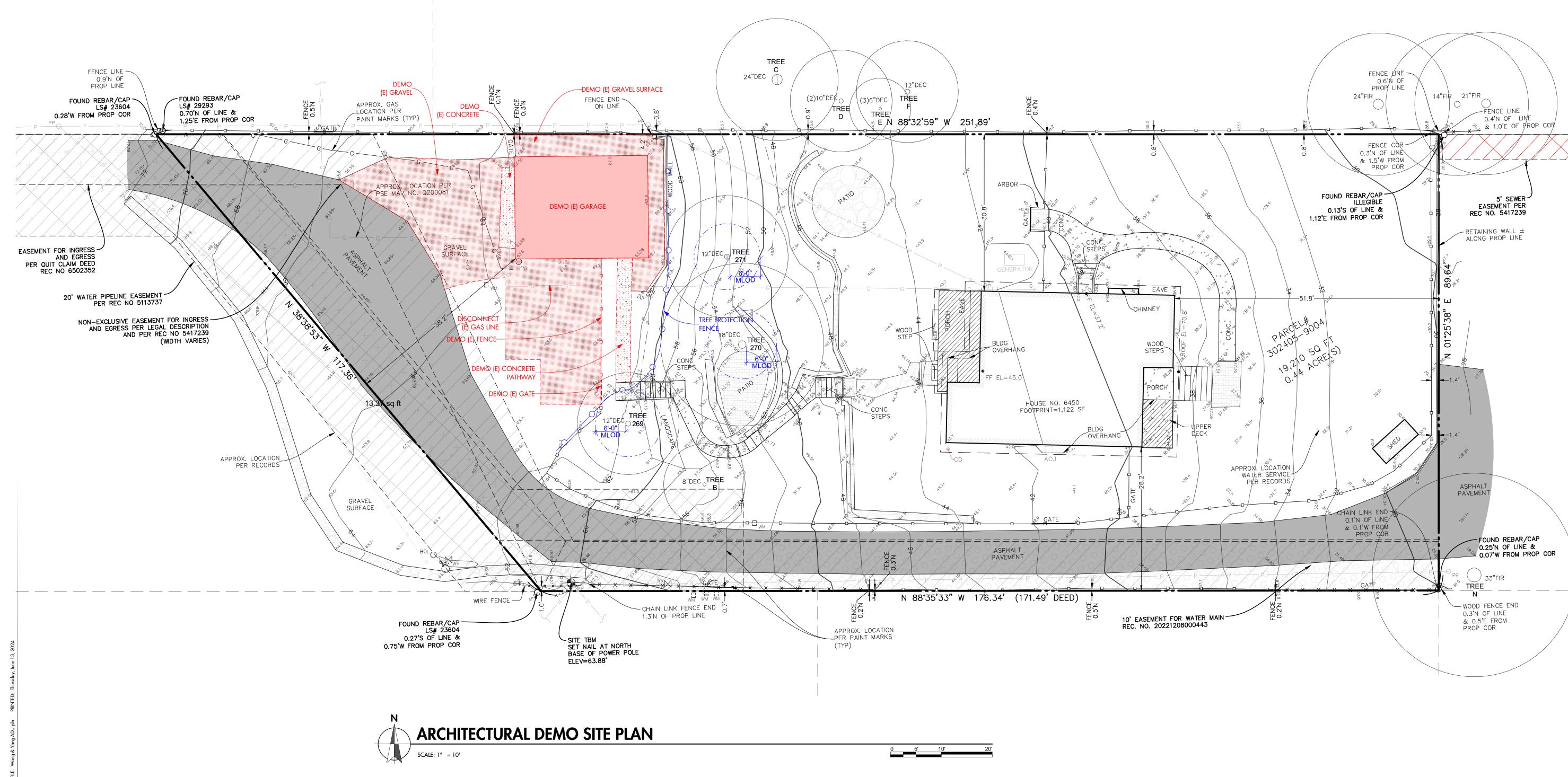
Project Manager: 6/13/2024 Issue Date: NO. DATE 10/17/2023 STRUCTURAL 12/01/2023 STRUCTURAL REV 1

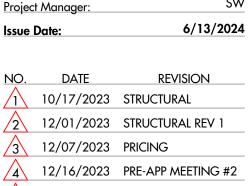
12/07/2023 PRICING

12/16/2023 PRE-APP MEETING #2 02/25/2024 BUILDING PERMIT

06/13/2024 BUILDING PERMIT REV 1

ARCHITECTURAL DEMO SITE PLAN



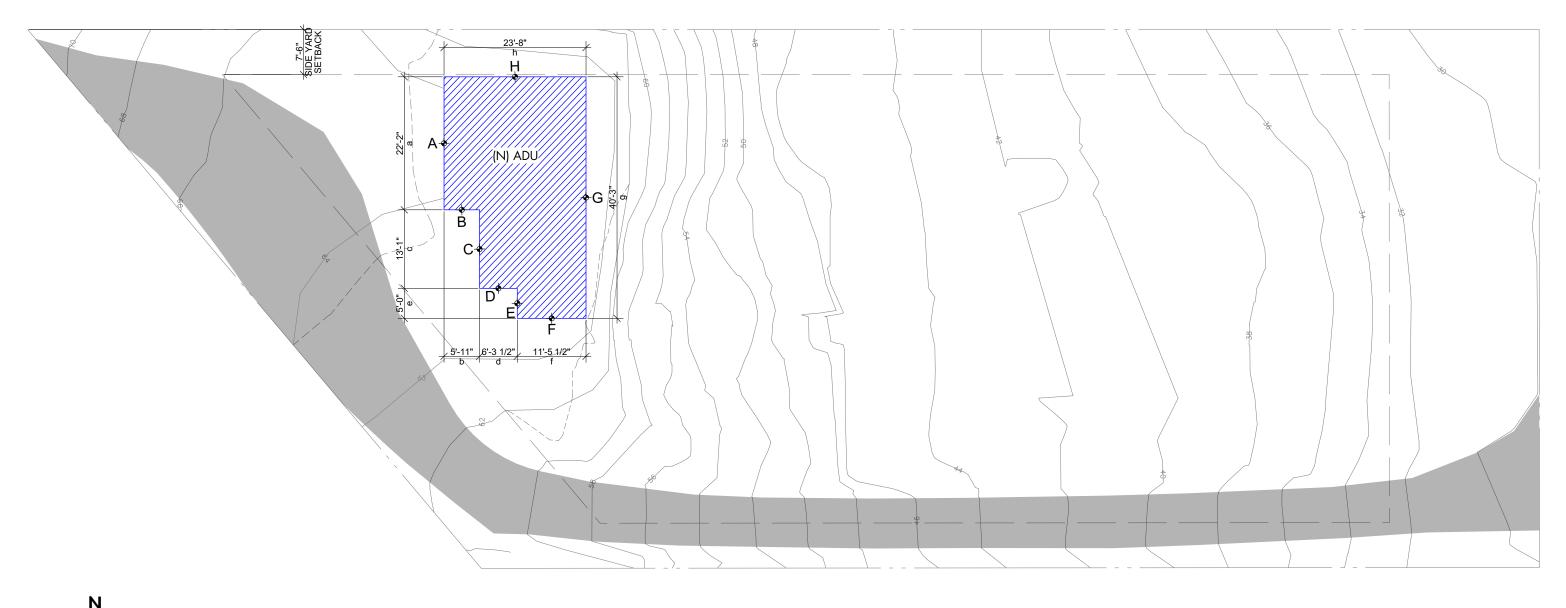


02/25/2024 BUILDING PERMIT

06/13/2024 BUILDING PERMIT REV 1

ARCHITECTURAL

PROPOSED SITE PLAN



Finished Top of Gabled Roof | Existing grade | Existing Ground Elevation | Finish Grade Finished Ground Elevation Length of Wall Segemen 64.00' 24.02' 22.17' 63.76' 24.26' B C D E 63.77' 24.25' 63.90' 24.12' 5.92' 63.70' 24.32' 63.45' 24.57' 13.08' 63.14' 24.88' 63.40' 24.62' 6.29' 62.93' 63.40' 24.62' 5.00' 25.09' 62.61' 63.50' 24.52' 11.46' 25.41'

25.03'

24.60'

PER MICC 19.02.020.C.1.c.iii.(a).(2) and 19.02.020.C.1.c.iii.(b), GABLED ROOF SINGLE-FAMILY DWELLINGS SHALL PROVIDE A MINIMUM SIDE YARD DEPTH OF SEVEN AND ONE-HALF FEET IF THE BUILDING HEIGHT IS MORE THAN 15 FEET BUT LESS THAN 25 FEET MEASURED FROM EXISING OR FINISHED GRADE, WHICHEVER IS LOWER, TO THE TOP OF THE GABLED ROOF END ADJOINING THE SIDE YARD.

63.10'

63.54'

24.92'

24.48'

40.25'

23.67'

AVERAGE BUILDING ELEVATION = $(A^*a + B^*b + C^*c + D^*d + E^*e + F^*f + G^*g + H^*h) / (a + b + c + d + e + f + g + h)$ = (63.76*22.17 + 63.77*5.92 + 63.45*13.08 + 63.14*6.29 + 62.93*5 + 62.61*11.46 + 62.99*40.25 + 63.42*23.67) / (22.17 + 5.92 + 13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*13.08 + 63.45*6.29 + 5 + 11.46 + 40.25 + 23.67 = 8,085.22 / 127.84 = 63.26

ALLOWABLE BUILDING HEIGHT = 63.26' + 25' = **88.26'**

MAX BUILDING HEIGHT CALCULATIONS

G H

PROPOSED BUILDING HEIGHT = **88.02' < 88.26'** (SEE A3.01)

62.99'

63.42'

BUILDING HEIGHT DIAGRAMS

REBAR & CAP (SET)

RETAINING WALL

----- RIGHT-OF-WAY LINES

ROCKERY

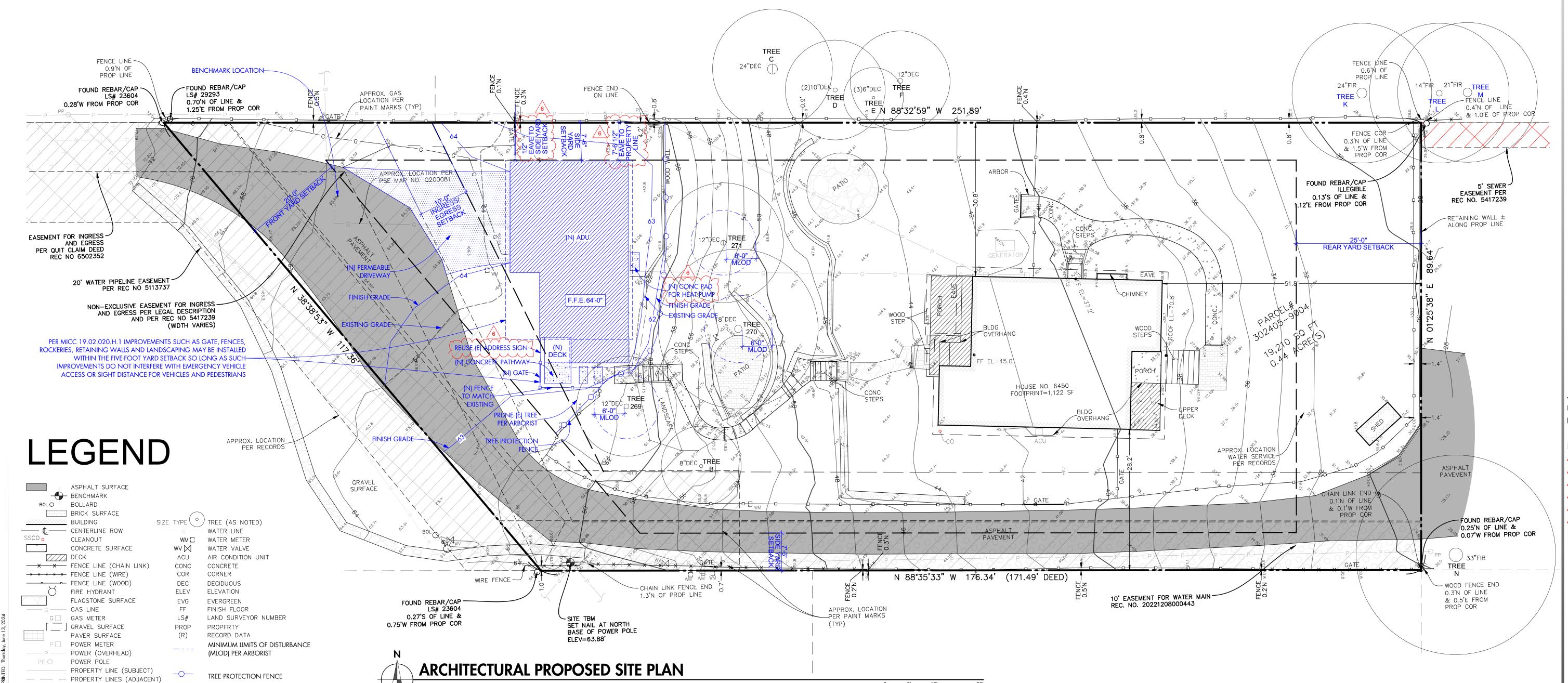
REBAR AS NOTED (FOUND)

EXCEPTIONAL TREE LESS THAN 24

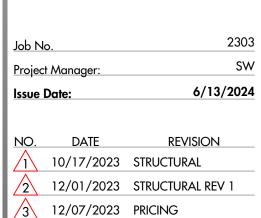
EXCEPTIONAL TREE GREATER THAN

INCHES

24 INCHES

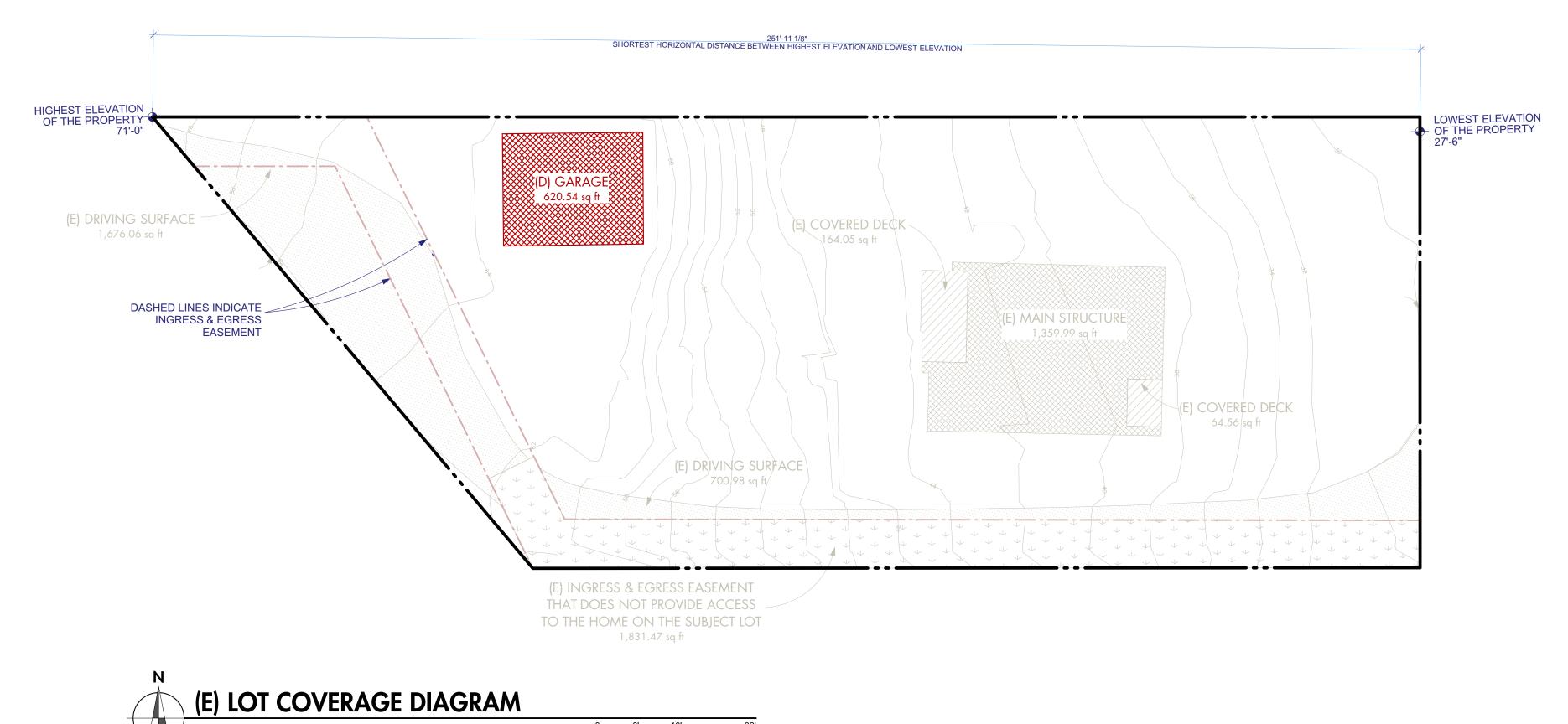


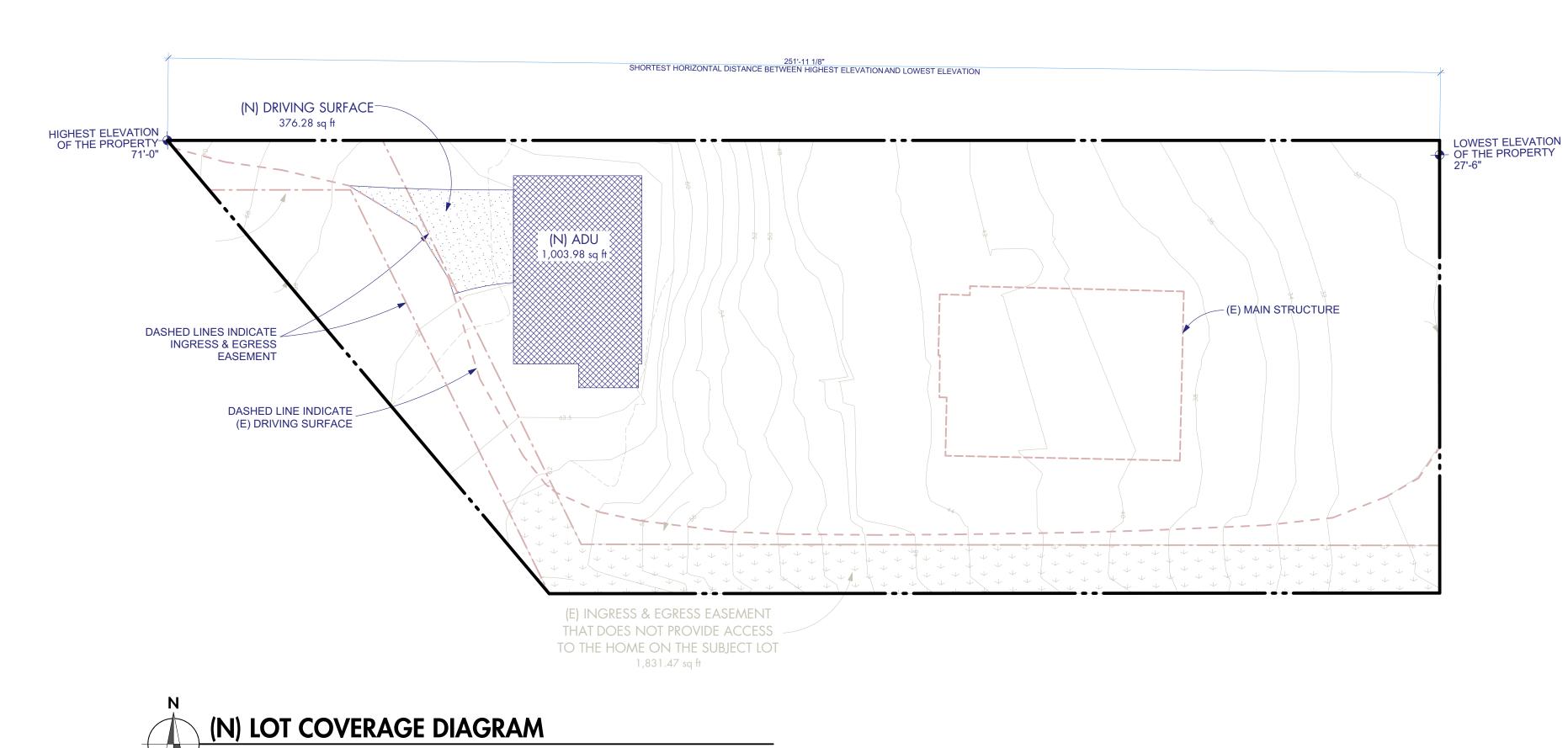




12/16/2023 PRE-APP MEETING #2 02/25/2024 BUILDING PERMIT 6 06/13/2024 BUILDING PERMIT REV 1

LOT COVERAGE **DIAGRAMS**





LOT COVERAGE CALCULATIONS LOT SLOPE CALCULATIONS

LOT COVERAGE NEW

(N) DRIVING SURFACE

Greater than 50% slope

(N) ADU

| HIGHEST ELEVATION OF THE PRO | OPERTY 71'-0" (7 |
|--------------------------------------------------------------------|----------------------------------------------------|
| LOWEST ELEVATION OF THE PRO SHORTEST HORIZONTAL DISTAN | OPERTY |
| LOT SLOPE | |
| NET LOT AREA CALCULATIONS | |
| LOT AREAACCESS EASEMENT AREA THAT | DOES NOT PROVIDE ACCESS TO HOME ON THE SUBJECT LOT |
| NET LOT AREA | |
| I OT COVEDAGE EXISTING | |
| LOT COVERAGE EXISTING (D) GARAGE | 621 |
| (D) GARAGE | 621 229 |
| | - |
| (D) GARAGE (E) COVERED DECK | 229 |
| (D) GARAGE (E) COVERED DECK (E) DRIVING SURFACE | 229 2,377 |
| (D) GARAGE (E) COVERED DECK (E) DRIVING SURFACE | 229 2,377 1,360 |
| (D) GARAGE (E) COVERED DECK (E) DRIVING SURFACE (E) MAIN STRUCTURE | 229 2,377 1,360 |

| 1,380 ft ² | |
|-------------------------------------------------------------------------|------------------------------------------------------------------------------|
| Maximum Lot Coverage (house, driving surfaces, and accessory buildings) | Required Landscaping Area |
| 40% | 60% |
| 35% | 65% |
| 30% | 70% |
| | Maximum Lot Coverage (house, driving surfaces, and accessory buildings) 40% |

80%

1,004

20%

376

| MAX. LOT COVERAGE ALLOWED | 35% |
|--------------------------------|--------------------------------------------------------|
| MAX. LOT COVERAGE AREA ALLOWED | 17,438.53 * 35% = 6,103.49 SF |
| | , , , , , , , , , , , , , , , , , , , |
| LOT COVERAGE AREA PROVIDED | 4,586 - 621 + 1,380 = 5,345 SF < 6,103.49 SF |
| LOT COVERAGE PROVIDED | 5,345 / 17,438.53 = 30.65% < 35% |

(N) UNCOVERED DECK 19 (N) WALKWAY 34

NET LOT AREA CALCULATIONS

HARDSCAPE COVERAGE NEW

HARDSCAPE COVERAGE DEMO

HARDCAPE CALCULATIONS

(D) CONCRETE

(D) WALKWAY

(E) PATIO

(E) ROCKERY

(E) WALKWAY

(E) WOOD WALL

(D) CONCRETE

(D) WALKWAY

(D) GRAVEL SURFACE

(N) CONCRETE PAD

(D) GRAVEL SURFACE

(E) GRAVEL SURFACE

(E) RETAINING WALL

HARDSCAPE COVERAGE EXISTING

60 ft²

1,206

408

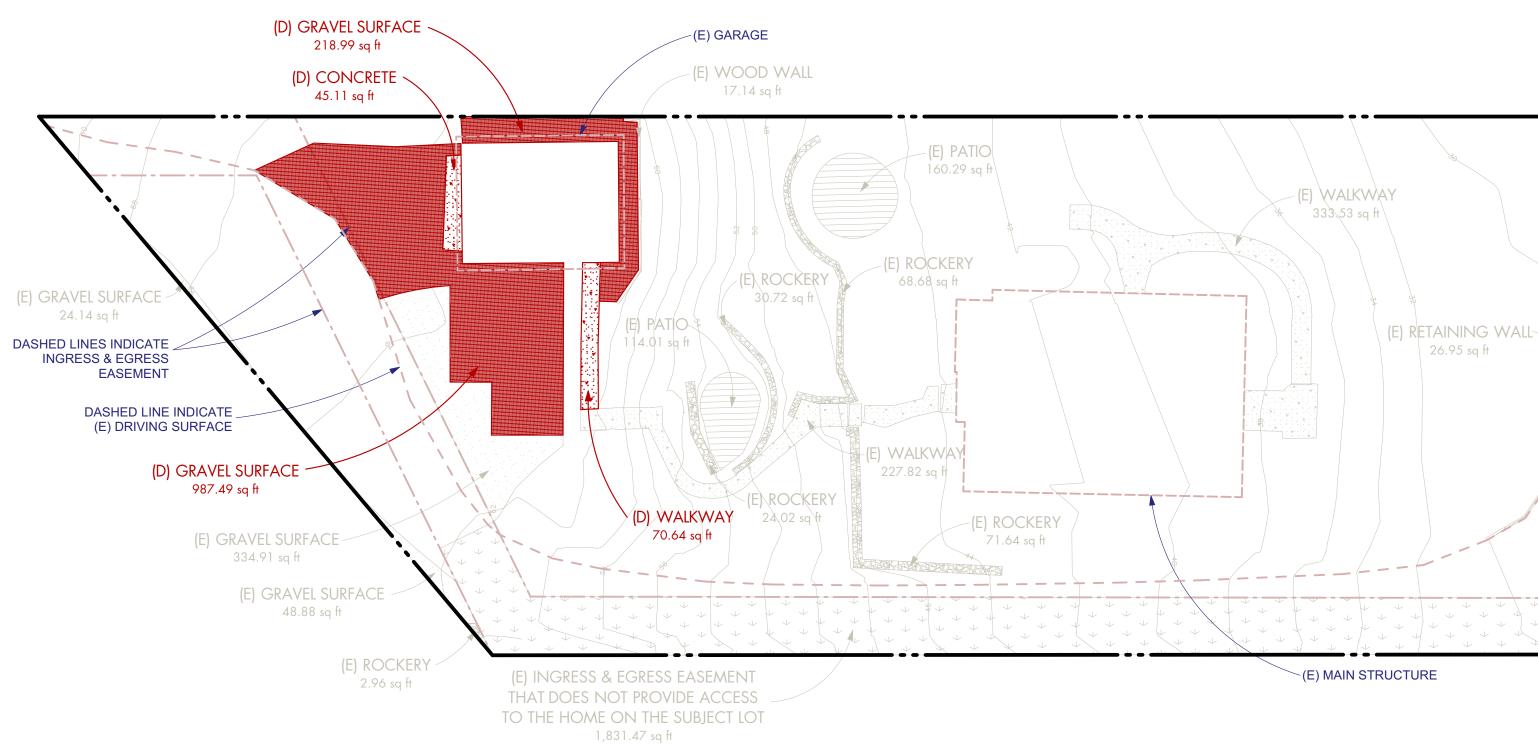
274

2,807 ft²

1,206

1,322 ft²

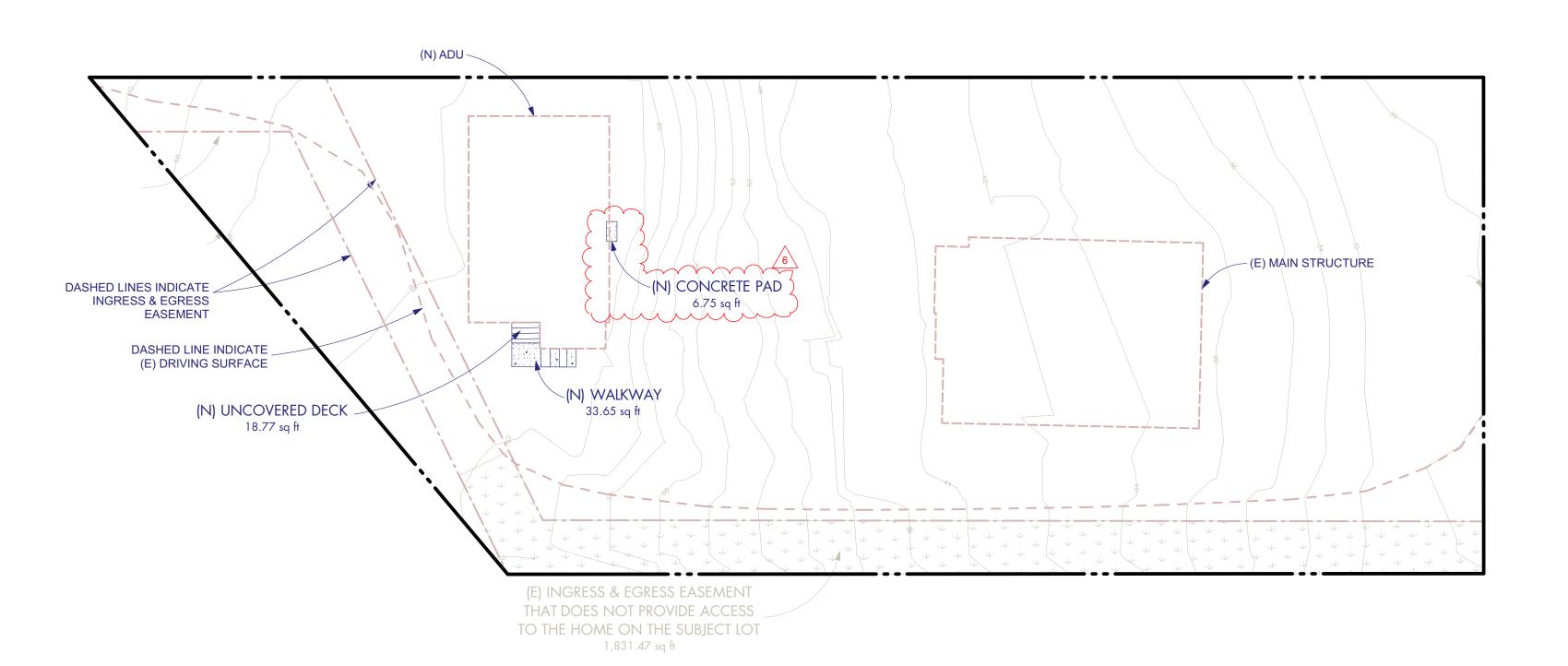
PER MICC 19.02.020.F.3.b.i, A MAXIMUM OF NINE PERCENT OF THE NET LOT AREA MAY CONCIST OF HARDSCAPE IMPROVEMENTS INCLUDING, BUT NOT LIMITED TO, WALKWAYS, DECKS, ETC.



(E) HARDSCAPE DIAGRAM

(N) HARDSCAPE DIAGRAM

SCALE: 1/16" = 1'-0"





VANG & YANG AI

 Job No.
 2303

 Project Manager:
 SW

 Issue Date:
 6/13/2024

 NO.
 DATE
 REVISION

 1
 10/17/2023
 STRUCTURAL

 2
 12/01/2023
 STRUCTURAL REV 1

 3
 12/07/2023
 PRICING

 4
 12/16/2023
 PRE-APP MEETING #2

 5
 02/25/2024
 BUILDING PERMIT

 6
 06/13/2024
 BUILDING PERMIT REV 1

HARDSCAPE DIAGRAM

41.04

IE: Wang & Yang ADU.pln PRINTED: Thursday, June 13, 2024



ADU SQUAREGFOOTAGE CALCULATIONS

PER MICC 19.02.030.B.4, THE SQUARE FOOTAGE OF THE ACCESSORY DWELLING UNIT SHALL BE A MINIMUM OF 220 SF AND A MAXIMUM OF 900 SF, EXLUDING ANY GARAGE AREA; PROVIDED, THE SQUARE FOOTAGE OF THE ACCESSORY DWELLING UNIT SHALL NOT EXCEED 80% OF THE TOTAL SQUARE FOOTAGE OF THE PRIMARY DWELLING UNIT, EXCLUDING THE GARAGE AREA.

ADU SQUARE FOOTAGE

| MAIN FLOOR | 171 SF |
|------------------------------------------------------|---------------------------------------------------|
| UPPER FLOOR | 591 SF |
| STAIRS (2-STORY) | 50 SF |
| 200% GFA MODIFÍER FOR CEILING HEIGHT MORE THAN 16 FT | |
| FOYER | |
| TOTAL SQUARE FOOTAGE | 171 + 591 + 50 + 38*2 = 888 SF < 900 SF |

GROSS FLOOR AREA CALCULATIONS

GROSS FLOOR AREA - EXISTING

| FINISHED BASEMENTMAIN FLOOR | |
|------------------------------------------------------|-----------------------------------------------------|
| UPPER FLOOR | , |
| COVERED DECK | · · · · · · · · · · · · · · · · · · · |
| GARAGE | |
| TOTAL GROSS FLOOR AREA EXISTING | 3 942 SF |
| TOTAL GROOD FLOOR AREA EXISTING | 3,342 31 |
| GROSS FLOOR AREA - DEMO | |
| GARAGE | 527 SF |
| TOTAL GROSS FLOOR AREA DEMO | 527 SF |
| GROSS FLOOR AREA - NEW | |
| MAIN FLOOR | |
| UPPER FLOOR | |
| STAIRS (2-STORY) | 50 SF |
| GARAGE | 513 SF |
| 200% GFA MODIFIER FOR CEILING HEIGHT MORE THAN 16 FT | |
| FOYER | 38 SF |
| TOTAL GROSS FLOOR AREA NEW | 1,401 SF |
| GROSS FLOOR AREA ALLOWED | |
| GROSS FLOOR AREA PROVIDED | 3.942 - 527 + 1.401 = 4.816 SF < 7.708 SF |
| | |

... 6,690 + 1,332 + 377 = 8,399 SF 6,690 + 1,332 + 88 = 8,110 SF

, 8,110 - 8,399 = **-289 SF** < 500 SF

IMPERVIOUS COVERAGE CALCULATIONS

| IMPERVIOUS COVERAGE EX | <u>(ISTING</u> |
|-------------------------|-----------------------|
| (E) DRIVING SURFACE | 3,436 |
| (E) GRAVEL SURFACE | 532 |
| (E) HOUSE | 1,589 |
| (E) PATIO | 274 |
| (E) RETAINING WALL | 27 |
| (E) ROCKERY | 220 |
| (E) SHED | 34 |
| (E) WALKWAY | 561 |
| (E) WOOD WALL | 17 |
| | 6,690 ft ² |
| IMPERVIOUS SURFACE REPL | <u>ACE</u> |
| (R) CONCRETE | 42 |
| (R) GARAGE | 409 |
| (R) GRAVEL SURFACE | 810 6 |
| (R) WALKWAY | 71 |
| | 1,332 ft ² |
| IMPERVIOUS COVERAGE DI | <u>EMO</u> |
| (D) CONCRETE | 3 |
| (D) GARAGE | 118 |
| (D) GRAVEL SURFACE | (256) 6 |
| | 377 ft ² |
| IMPERVIOUS COVERAGE N | <u>EW</u> |
| (N) ADU | 86 |
| (N) WALKWAY | 2 |
| | 88 ft ² |

PREVIOUS IMPERVIOUS COVERAGE ... PROPOSED IMPERVIOUS COVERAGE .

IMPERVIOUS COVERAGE INCREASE.

(N) NEW IMPERVIOUS SURFACE

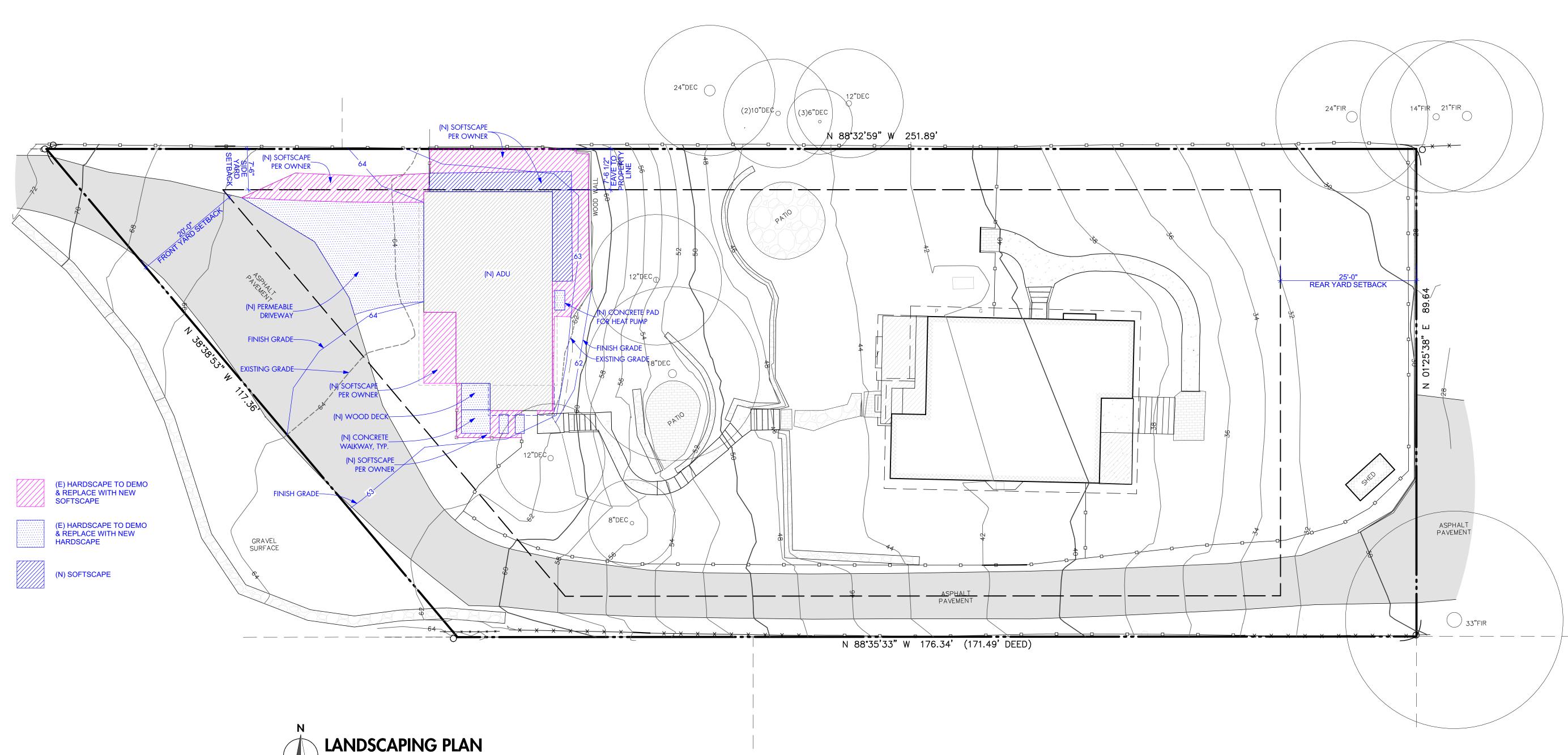
NO. DATE 10/17/2023 STRUCTURAL 12/01/2023 STRUCTURAL REV 1 12/07/2023 PRICING 12/16/2023 PRE-APP MEETING #2 02/25/2024 BUILDING PERMIT 6\ 06/13/2024 BUILDING PERMIT REV 1

Project Manager:

GROSS FLOOR AREA & IMPERVIOUS

086

6/13/2024



SCALE: 1" = 10'

WANG & YANG ADU

Job No. 2303

Project Manager: SW

Issue Date: 6/13/2024

NO. DATE REVISION

1 10/17/2023 STRUCTURAL

2 12/01/2023 STRUCTURAL REV 1

3 12/07/2023 PRICING

12/16/2023 PRE-APP MEETING #2
5 02/25/2024 BUILDING PERMIT
6 06/13/2024 BUILDING PERMIT REV 1

06/13/2024 BUILDING PERMIT I

LANDSCAPING PLAN

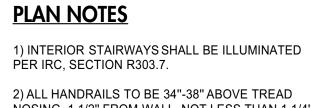




Project Manager: 6/13/2024 Issue Date: NO. DATE 10/17/2023 STRUCTURAL 12/01/2023 STRUCTURAL REV 1 12/07/2023 PRICING 12/16/2023 PRE-APP MEETING #2 02/25/2024 BUILDING PERMIT

6 06/13/2024 BUILDING PERMIT REV 1

MAIN FLOOR PLAN

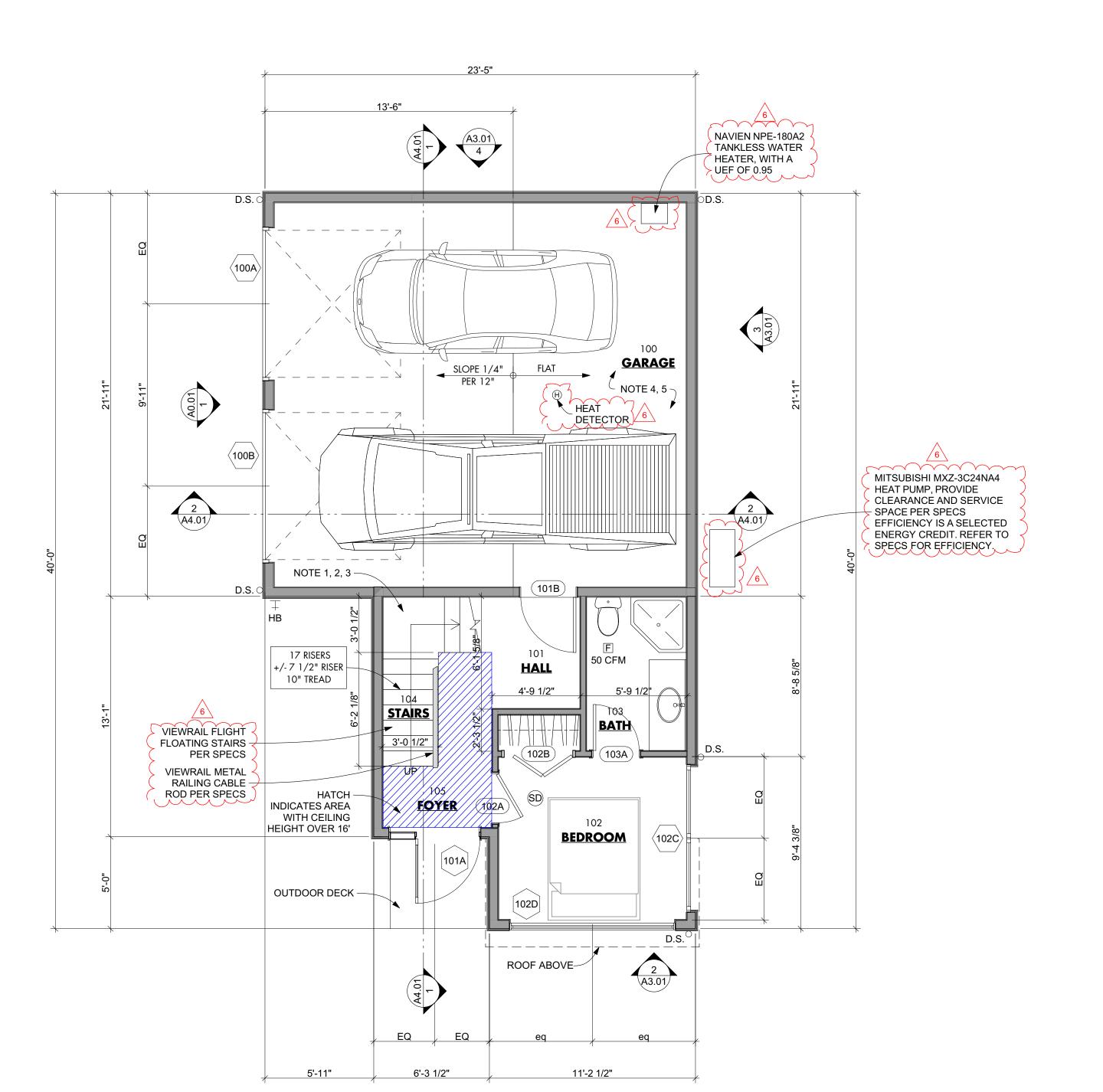


2) ALL HANDRAILS TO BE 34"-38" ABOVE TREAD NOSING, 1 1/2" FROM WALL, NOT LESS THAN 1 1/4" OR MORE THAN 2" IN DIAMETER

PER IRC, SECTION R311& R312 3) ALL GUARD RAILS SHALL BE MIN 36" HIGH AND HAVE A MAXIMUM OPENING SUCH THAT A 4" SPHERE CANNOT PASS THROUGH PER IRC, SECTIONS R312.1.2 & R312.1.3

4) THE GARAGE SHALL BE SEPARATED FROM THE RESIDENCE WITH A MIN 1/2" GYPSUM BOARD OR EQUIV. APPLIED TO THE GARAGE SIDE. 5/8" TYPE 'X' GYPSUM BOARD IS REQUIRED WHERE THERE ARE HABITABLE ROOMS ABOVE THE GARAGE. SUPPORTING COLUMNS, WALLS AND BEAMS USE 1/2" GYPSUM WALL BOARD PER IRC, SECTION 302.6

5) OPENINGS BETWEEN THE GARAGE AND RESIDENCE SHALL HAVE A SOLID WOOD, SOLID OR HONEYCOMB-CORE STEEL DOORS NOT LESS THAN 1 3/8" IN THICKNESS OR 20-MIN FIRE-RATED DOORS. ALL DOORS SHALL BE EQUIPPED WITH A SELF CLOSING OR AUTOMATIC CLOSING DEVICE. PER IRC, SECTIONO R302.5.1



<u>LEGEND</u> CONCRETE WALL

EXTERIOR FRAMED WALL, FINISH VARIES

INTERIOR WALL ----- ELEMENT ABOVE

> SMOKE DETECTOR/ CARBON MONOXIDE DETECTOR

MAIN FLOOR SQUARE FOOTAGES

BATH BEDROOM 107 FOYER HALL 15 STAIRS 50

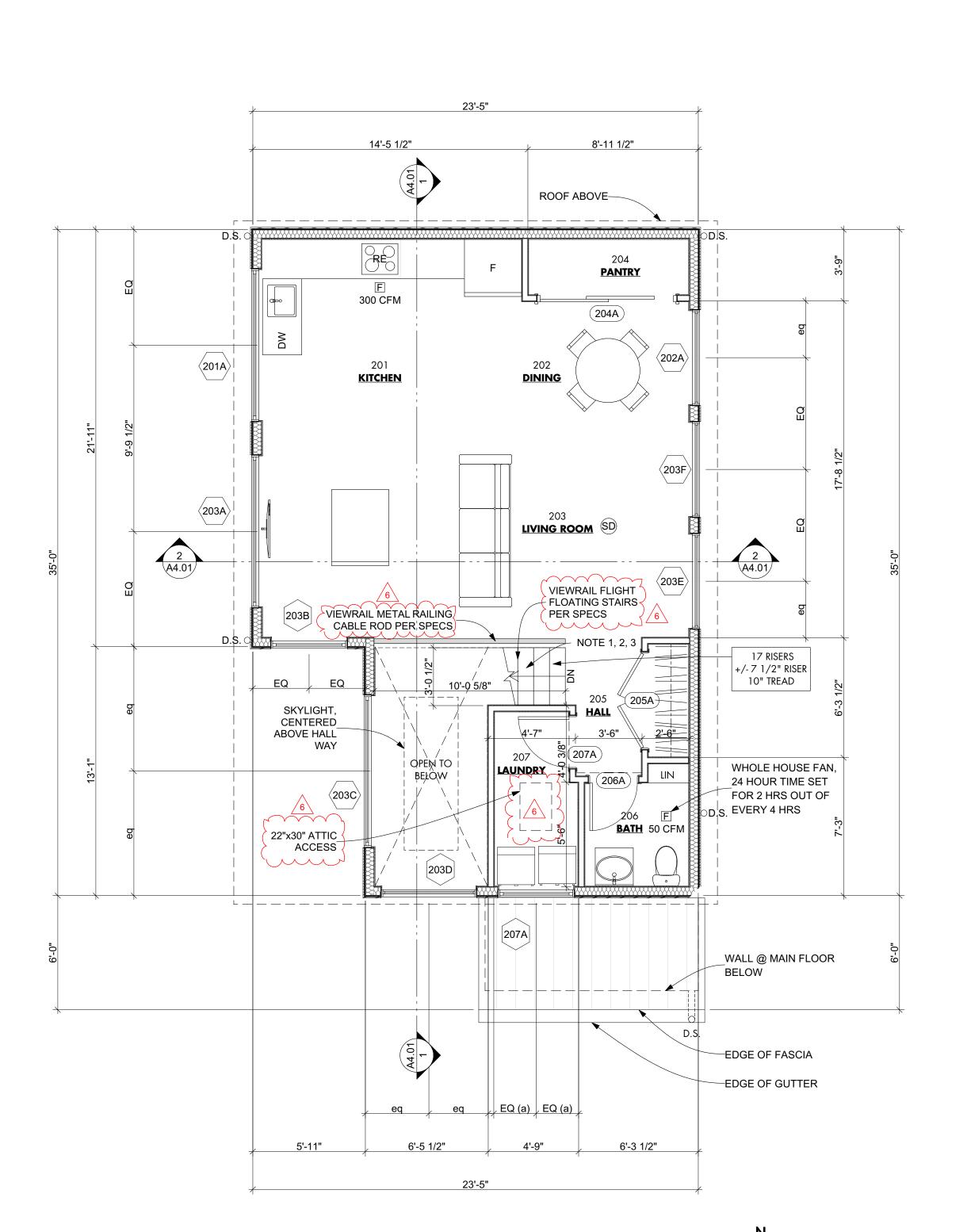
258 ft²

MAIN FLOOR PLAN

12/16/2023 PRE-APP MEETING #2 02/25/2024 BUILDING PERMIT

6 06/13/2024 BUILDING PERMIT REV 1

UPPER FLOOR PLAN



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

PLAN NOTES

PER IRC, SECTION R303.7.

OR MORE THAN 2" IN DIAMETER PER IRC, SECTION R311& R312

SPHERE CANNOT PASS THROUGH PER IRC, SECTIONS R312.1.2 & R312.1.3

1) INTERIOR STAIRWAYS SHALL BE ILLUMINATED

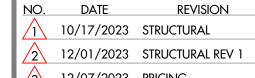
2) ALL HANDRAILS TO BE 34"-38" ABOVE TREAD NOSING, 1 1/2" FROM WALL, NOT LESS THAN 1 1/4"

3) ALL GUARD RAILS SHALL BE MIN 36" HIGH AND HAVE A MAXIMUM OPENING SUCH THAT A 4"

<u>LEGEND</u> CONCRETE WALL EXTERIOR FRAMED WALL, FINISH VARIES _____ INTERIOR WALL ----- ELEMENT ABOVE SMOKE DETECTOR/ CARBON MONOXIDE DETECTOR

| UPPER FLC | OOR SQUARE FOOTAGES |
|-------------|---------------------|
| BATH | 34 |
| DINING | 56 |
| HALL | 39 |
| KITCHEN | 132 |
| LAUNDRY | 42 |
| LIVING ROOM | 259 |
| PANTRY | 29 |
| | 591 ft² |



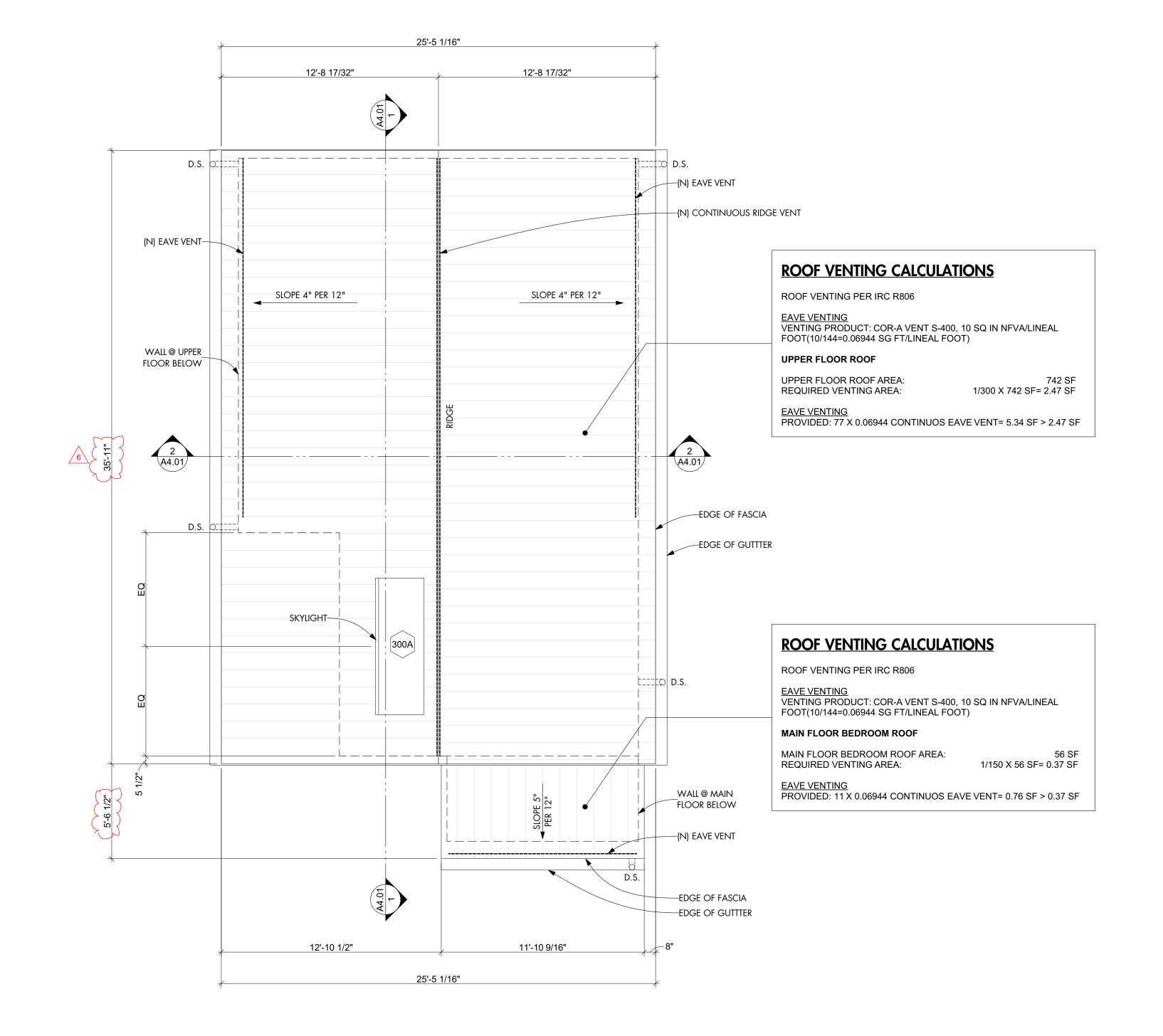


12/07/2023 PRICING 4 12/16/2023 PRE-APP MEETING #2

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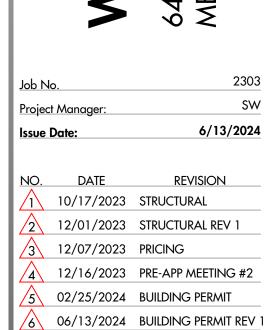
6 06/13/2024 BUILDING PERMIT REV 1

ROOF PLAN



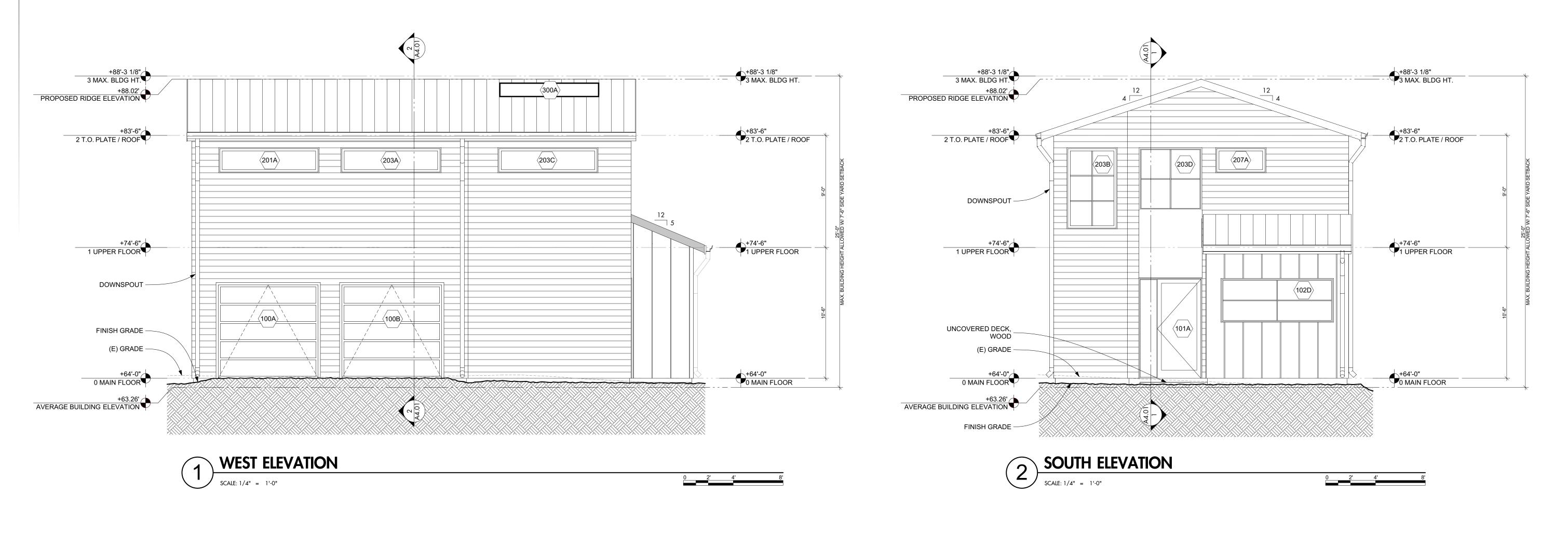
ROOF PLAN

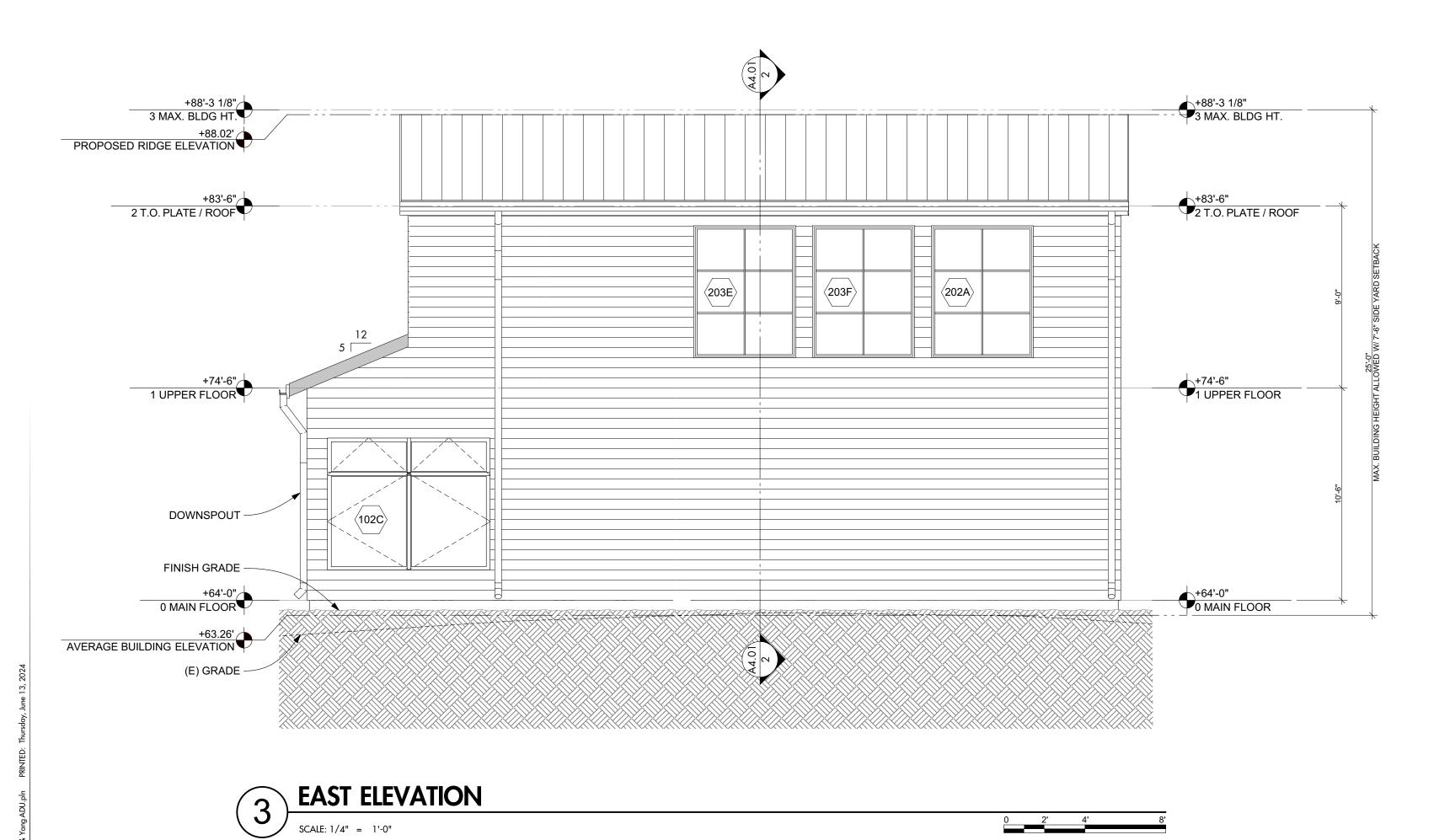
SCALE: 1/4" = 1'-0"

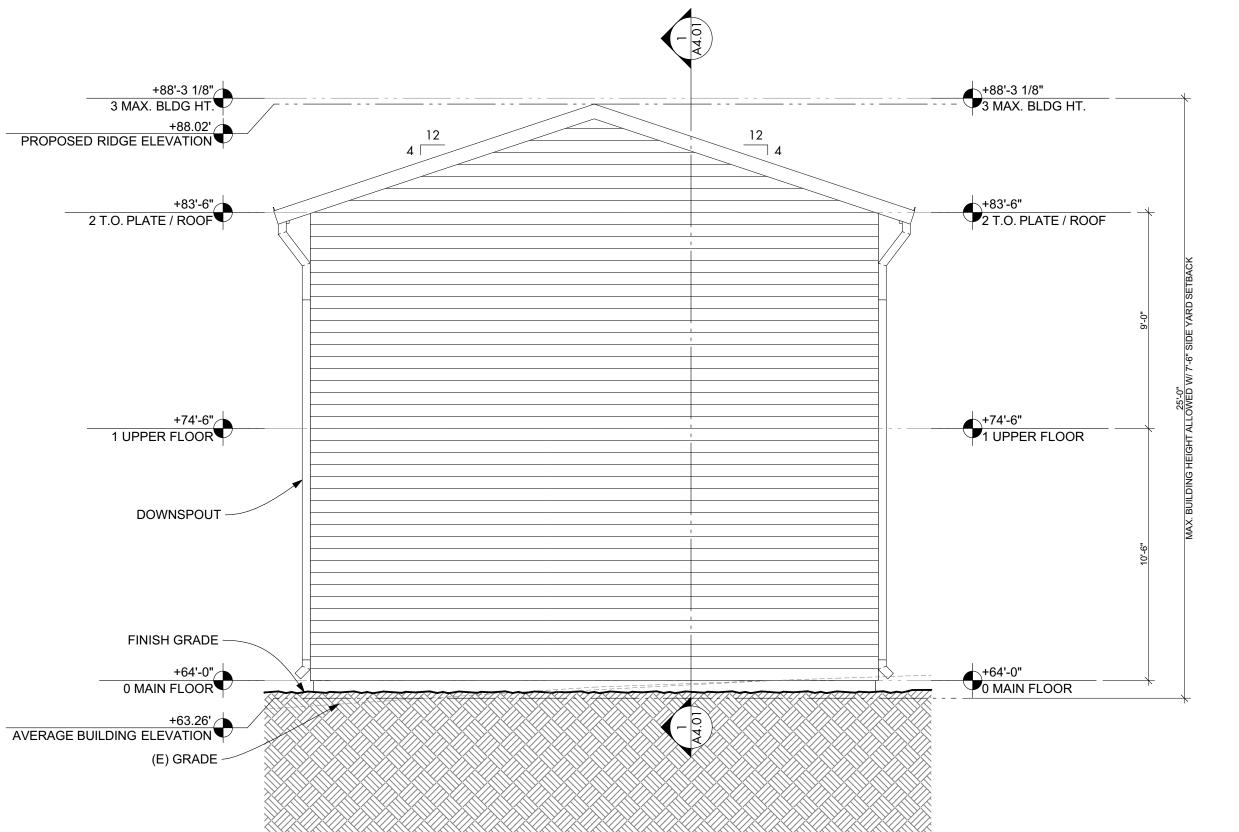


EXTERIOR ELEVATIONS

A3.0







NORTH ELEVATION

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

98040

12/07/2023 PRICING

12/16/2023 PRE-APP MEETING #2 02/25/2024 BUILDING PERMIT

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BUILDING SECTIONS

* FINISHED FLOORING * PLYWOOD SUBFLOOR PER STRUCT. * FLOOR FRAMING PER STRUCT. * R-38 BATT INSULATION * 5/8" TYPE 'X' GYPSUM BOARD FLOOR ASSEMBLY 2

CONSTRUCTION ASSEMBLIES

* FINISH FLOORING

FLOOR ASSEMBLY 1

* 4" CONCRETE SLAB * 6 mil VAPOR BARRIER * R-10 RIGID INSULATION UNDER ENTIRE SLAB * 4" MIN. GRANULAR FILL

WALL ASSEMBLY 1 * FINISH: SIDING PER ELEVATIONS

* DRAIN MAT * BUILDING WRAP * PLYWOOD SHEATHING PER STRUCT. * STUD WALL PER STRUCT.

* MIN. R-21 BATT INSULATION * 5/8" TYPE 'X' GYPSUM BOARD FINISH

ROOF ASSEMBLY 1

203 **LIVING ROOM**

100

GARAGE

SLOPE 1/4"
PER 12" FLAT

- FLOOR ASSEMBLY 2 NO INSULATION

* COMPOSITE SHINGLE METAL ROOF PER ELEVATIONS * ROOFING FELTS * PLYWOOD SHEATHING PER STRUCT.

* TRUSS PER STRUCT. * R-38 INSULATION + MIN. 1" AIR SPACE TO VENT * 5/8" TYPE 'X' GWB CEILING

- FLOOR ASSEMBLY 1

+88'-3 1/8"

- ROOF ASSEMBLY 1

3 MAX. BLDG HT.

2 T.O. PLATE / ROOF

1 UPPER FLOOR

0 MAIN FLOOR

WALL ASSEMBLY 1
W/OUT INSULATION

ROOF ASSEMBLY 1 +88'-3 1/8" 3 MAX. BLDG HT. +88'-3 1/8" 3 MAX. BLDG HT. PROPOSED RIDGE ELEVATION +83'-6" 2 T.O. PLATE / ROOF 2 T.O. PLATE / ROOF 203 **LIVING ROOM KITCHEN** WALL ASSEMBLY 1 → - FLOOR ASSEMBLY 1 +74'-6"

1 UPPER FLOOR 1 UPPER FLOOR - 5/8" TYPE 'X' GWB 105 **GARAGE FOYER** WALL ASSEMBLY 1 W/OUT INSULATION OUTDOOR DECK FLOOR ASSEMBLY 2
NO INSULATION FLOOR ASSEMBLY 2 +64'-0" 0 MAIN FLOOR 0 MAIN FLOOR +63.26' VERAGE BUILDING ELEVATION

1 UPPER FLOOR +63.26'
UILDING ELEVATION

BUILDING SECTION A

BUILDING SECTION B

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

+88'-3 1/8"

+74'-6"

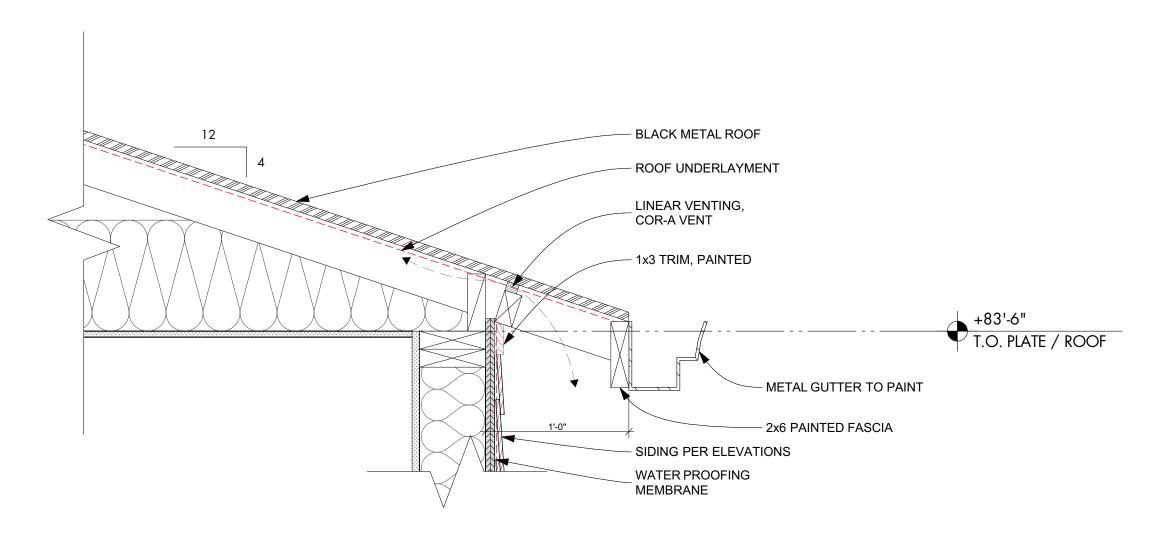
0 MAIN FLOOR

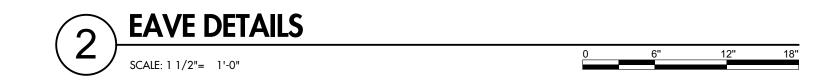
WALL ASSEMBLY 1 ──►

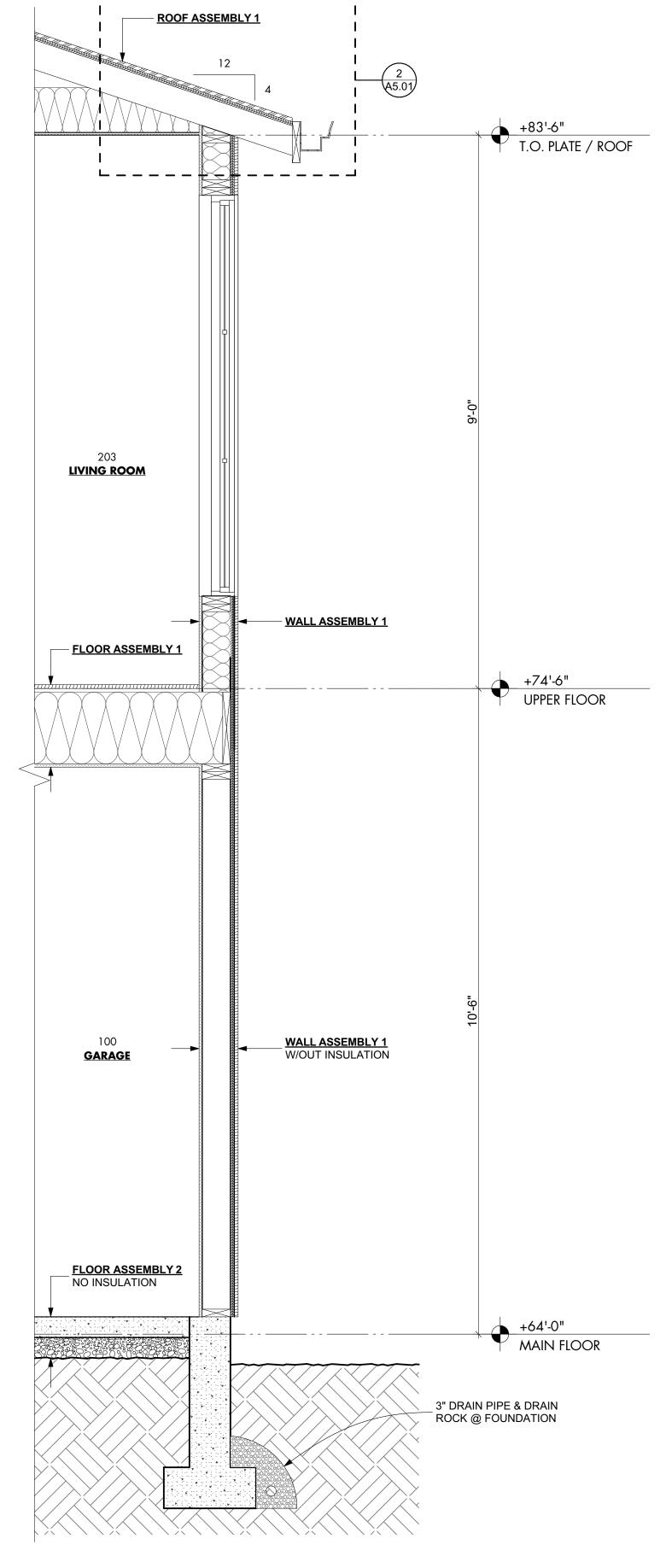
3 MAX. BLDG HT

D RIDGE ELEVATION

2 T.O. PLATE / ROOF







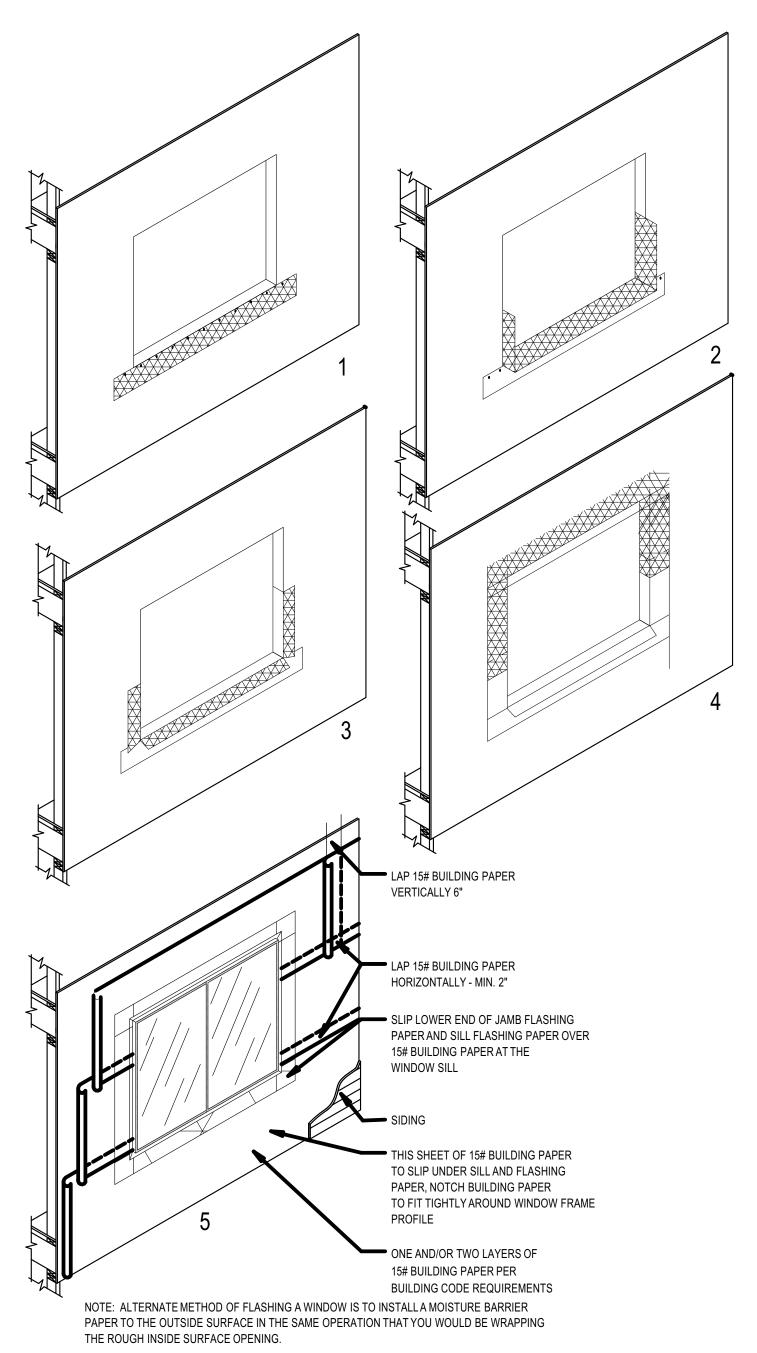
1 WALL SECTION

6450 E MERCER W MERCER ISLAND, V WANG

98040

Project Manager: 6/13/2024 NO. DATE 10/17/2023 STRUCTURAL 12/01/2023 STRUCTURAL REV 1 12/07/2023 PRICING 12/16/2023 PRE-APP MEETING #2 02/25/2024 BUILDING PERMIT 6 06/13/2024 BUILDING PERMIT REV 1

WALL SECTIONS



| THE NAIL ON WINDOW | WOULD E | BE INSTALLED | OVER THE | FLASHING | SYSTEM |
|--------------------|---------|--------------|----------|----------|--------|

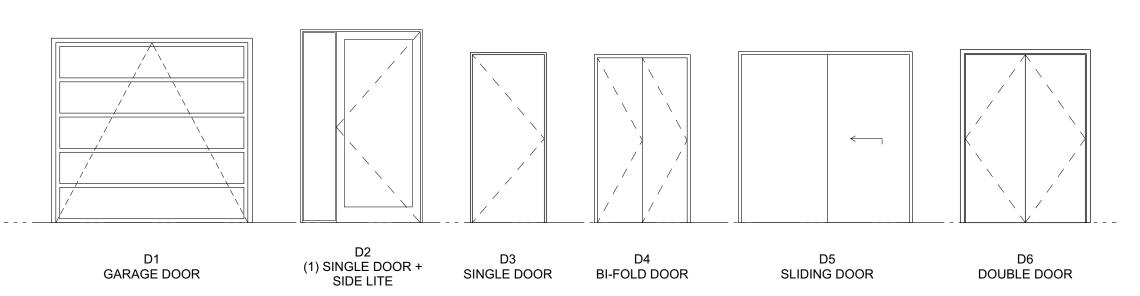
| LOCATION | NO | UNIT DIM | IENSIONS | MECD | TVDE | SAFETY | NOTES |
|-------------|------|----------|-----------------|----------------|------|--------|-------|
| LOCATION | NO. | WIDTH | HEIGHT | MFGR | TYPE | GLASS | NOTES |
| MAIN FLOOR | | | | | | • | |
| | 101B | 3'-0" | 7'-0" | PER CONTRACTOR | D3 | NO | |
| | 102A | 2'-8" | 7'-0" | PER CONTRACTOR | D3 | NO | |
| | 102B | 4'-0" | 7'-0" | PER CONTRACTOR | D4 | NO | |
| | 103A | 2'-6" | 7'-0" | PER CONTRACTOR | D3 | NO | |
| JPPER FLOOR | | | , | | | | |
| | 204A | 7'-0" | 7'-0" | PER CONTRACTOR | D5 | NO | |
| | 205A | 5'-0" | 7'-0" | PER CONTRACTOR | D6 | NO | |
| | 206A | 2'-6" | 7'-0" | PER CONTRACTOR | D3 | NO | |
| | 207A | 2'-8" | 7'-0" | PER CONTRACTOR | D3 | NO | |

NOTE: ALL DOORS TO BE SOLID CORE.

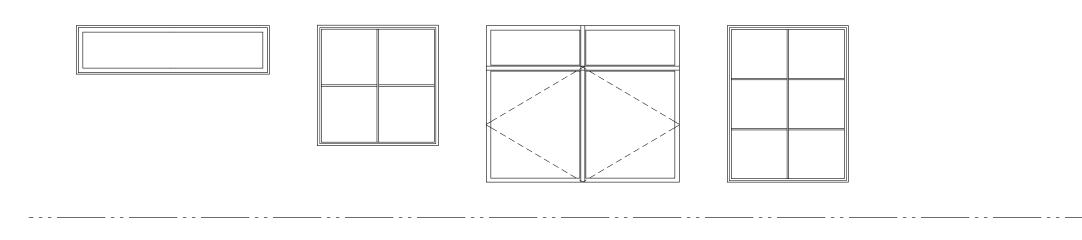
| WINDOW SCHEDU | VINDOW SCHEDULE | | | | | | | | | | |
|-----------------|-----------------|-------|--------|----------------|-----------|----------------|------|--------|-----------------|---------|--------|
| UNIT DIMENSIONS | | | | | | | | | CAFFTV | | |
| LOCATION | NO. | WIDTH | HEIGHT | HEAD HEIGHT | OPERATION | MFGR | TYPE | EGRESS | SAFETY GLASS | U-VALUE | NOTES: |
| MAIN FLOOR | | | | | | 1 | | 1 | | 1 | |
| | 102C | 8'-0" | 6'-6" | 8'-0" | CSMT | PER CONTRACTOR | W3 | YES | NO | 0.28 | |
| | 102D | 9'-0" | 3'-6" | 8'-0" | FIXED | PER CONTRACTOR | W2 | | NO | 0.28 | |
| UPPER FLOOR | | | | | • | • | | • | | | |
| | 201A | 8'-0" | 2'-0" | 8'-0" | FIXED | PER CONTRACTOR | W1 | | NO | 0.28 | |
| | 202A | 5'-0" | 6'-6" | 8'-0" | FIXED | PER CONTRACTOR | W4 | | NO | 0.28 | |
| | 203A | 8'-0" | 2'-0" | 8'-0" | FIXED | PER CONTRACTOR | W1 | | NO | 0.28 | |
| | 203B | 4'-0" | 6'-6" | 8'-0" | FIXED | PER CONTRACTOR | W4 | | NO | 0.28 | |
| | 203C | 8'-0" | 2'-0" | 8'-0" | FIXED | PER CONTRACTOR | W1 | | NO | 0.28 | |
| | 203D | 5'-0" | 5'-0" | 18'-6" | FIXED | PER CONTRACTOR | W2 | | NO | 0.28 | |
| | 203E | 5'-0" | 6'-6" | 8'-0" | FIXED | PER CONTRACTOR | W4 | | NO | 0.28 | |
| | 203F | 5'-0" | 6'-6" | 8'-0" | FIXED | PER CONTRACTOR | W4 | | NO | 0.28 | |
| | 207A | 4'-0" | 2'-0" | 8'-0" | FIXED | PER CONTRACTOR | W1 | | NO | 0.28 | |

| EXTERIOR DOOR S | CHEDULE | | | | | | | |
|-----------------|---------|----------|---------|------|----------------|--------|---------|----------------------------------|
| | | UNIT DIM | ENSIONS | | | SAFETY | | |
| LOCATION | NO. | WIDTH | HEIGHT | TYPE | MFGR | GLASS | U-VALUE | REMARKS |
| MAIN FLOOR | | | | | | | | 1 |
| | 100A | 8'-0" | 7'-6" | D1 | AMARR | NO | | GARAGE DOOR, AMARR LINCOLN |
| | 100B | 8'-0" | 7'-6" | D1 | AMARR | NO | | GARAGE DOOR, AMARR LINCOLN |
| | 101A | 5'-0" | 8'-0" | D2 | PER CONTRACTOR | YES | | CUSTOM ENTRY DOOR WITH SIDE LITE |

| SKYLIGHT SCHEDULE | | | | | | | | | |
|-------------------|------|-------------------|-------------------|----------------|------|-----------|-----------------|---------|--------|
| LOCATION | NO. | UNIT DIM WIDTH | ENSIONS HEIGHT | MFGR | TYPE | OPERATION | SAFETY GLASS | U-VALUE | NOTES: |
| T.O. PLATE / ROOF | | | | | | | | | |
| | 300A | 8'-0" | 3'-0" | PER CONTRACTOR | SK1 | FIXED | NO | | |



DOOR TYPES



W3 (2) CASEMENT + (2) FIXED W2 FIXED WINDOW W4 FIXED FIXED WINDOW

WINDOW TYPES



FIXED SKYLIGHT

SKYLIGHT TYPES

Project Manager: 6/13/2024 **Issue Date:**

NO. DATE REVISION 1 10/17/2023 STRUCTURAL 12/01/2023 STRUCTURAL REV 1

12/07/2023 PRICING 12/16/2023 PRE-APP MEETING #2

02/25/2024 BUILDING PERMIT

6 06/13/2024 BUILDING PERMIT REV 1

DOOR AND WINDOW

SCHEDULES

GENERAL STRUCTURAL NOTES

(The following apply unless shown otherwise on the plans)

<u>CRITERIA</u>

1. ALL MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS, SPECIFICATIONS, AND THE 2018 EDITION OF THE INTERNATIONAL BUILDING CODE (IBC)

2. DESIGN LOADING CRITERIA

| ROOF SNOW LOAD | 25 PSF |
|-------------------------------|--------|
| FLOOR LIVE LOAD (RESIDENTIAL) | 40 PSF |

SNOW ROOF SNOW LOAD = 25 PSF GROUND SNOW LOAD = 20 PSF

EXPOSURE Ce = 1.00 IMPORTANCE FACTOR Is = 1.00 THERMAL FACTOR Ct = 1.00

WIND: ANALYSIS PROCEDURE: ASCE 7-16 CHAPTER 27 "PART 1 - BUILDINGS OF ALL HEIGHTS"

RISK CATEGORY II 98 MPH EXPOSURE "B"

TOPOGRAPHIC FACTOR Kzt = 1.0

35 PSF CLADDING / WINDOW DESIGN PRESSURE (MAX.) ROOFING DESIGN PRESSURE NOT AT A CORNER (MAX.) 44 PSF 67 PSF ROOFING DESIGN PRESSURE AT CORNER (MAX.)

THE DESIGN WIND PRESSURES LISTED ABOVE ARE INWARD OR OUTWARD AND ARE BASED ON AN EFFECTIVE WIND AREA OF 10 SQUARE FEET NEAR A BUILDING CORNER, U.O.N. CORNER AND OTHER ZONES ARE DEFINED BY FIGURE 30.3-1, 30.3-2A TO 2I AND 30.3-5A TO 5B IN ASCE 7-16. REDUCED DESIGN PRESSURES MAY BE CALCULATED USING ASCE 7. NOTE THAT THE DESIGN WIND PRESSURES NOTED ABOVE ARE ULTIMATE VALUES PER THE 2018 IBC AND SHALL BE MULTIPLIED BY 0.6 FOR ALLOWABLE STRESS DESIGN.

EARTHQUAKE ANALYSIS PROCEDURE: IBC "EQUIVALENT LATERAL FORCE PROCEDURE"

SEISMIC DESIGN CATEGORY (SDC) = D

RISK CATEGORY = II

SEISMIC SITE CLASS = D

IMPORTANCE FACTOR le = 1.0

MAPPED MCE Ss = 1.61; $S_1 = 0.62$

DESIGN ACCELERATION Sds = 1.14; Sd₁ = 0.86

SEISMIC RESISTING SYSTEM: WOOD PANEL BEARING SHEAR WALL, R = 6.5

- 3. LATERAL LOADS ARE TRANSFERRED BY THE ROOF AND FLOOR DIAPHRAGMS TO THE SHEAR WALLS. FORCES ARE BASED ON THE TRIBUTARY AREA FOR EACH SHEAR WALL AND ARE CARRIED BY THE SHEAR WALLS TO THE FOUNDATION.
- 4. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS FOR BIDDING AND CONSTRUCTION. CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS FOR COMPATIBILITY AND SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
- 5. CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS, MEMBER SIZES, AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS ARE INTENDED AS GUIDELINES ONLY AND MUST BE VERIFIED.
- 6. CONTRACTOR SHALL PROVIDE TEMPORARY BRACING FOR THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE PLANS.
- 7. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THEIR WORK. THE STRUCTURAL ENGINEER HAS NO OVERALL SUPERVISORY AUTHORITY OR ACTUAL AND/OR DIRECT RESPONSIBILITY FOR THE SPECIFIC WORKING CONDITIONS AT THE SITE AND/OR FOR ANY HAZARDS RESULTING FROM THE ACTIONS OF ANY TRADE CONTRACTOR. THE STRUCTURAL ENGINEER HAS NO DUTY TO INSPECT. SUPERVISE, NOTE, CORRECT, OR REPORT ANY HEALTH OR SAFETY DEFICIENCIES OF THE OWNER, CONTRACTORS, OR OTHER ENTITIES OR PERSONS AT THE PROJECT SITE.
- 8. CONTRACTOR-INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES SHOWN ON SHOP DRAWINGS ONLY WILL NOT SATISFY THIS REQUIREMENT.
- 9. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND THE STRUCTURAL ENGINEER. WHERE INFORMATION ON THE DRAWINGS IS IN CONFLICT WITH THE SPECIFICATIONS, THE MORE STRINGENT SHALL APPLY, SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND THE STRUCTURAL ENGINEER. DO NOT SCALE THE DRAWINGS.
- 10. ALL STRUCTURAL SYSTEMS WHICH ARE COMPOSED OF FIELD ERECTED COMPONENTS SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE AND ERECTION IN ACCORDANCE WITH INSTRUCTIONS PREPARED BY THE SUPPLIER.
- 11. SHOP DRAWINGS FOR CONNECTOR PLATE WOOD ROOF TRUSSES AND PLYWOOD WEB JOISTS SHALL BE SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION OF THESE ITEMS.
- 12. SHOP DRAWING REVIEW: DIMENSIONS AND QUANTITIES ARE NOT REVIEWED BY THE ENGINEER OF RECORD, AND THEREFORE MUST BE VERIFIED BY THE CONTRACTOR. CONTRACTOR SHALL REVIEW AND STAMP DRAWINGS PRIOR TO REVIEW BY ENGINEER OF RECORD. CONTRACTOR SHALL REVIEW DRAWINGS FOR CONFORMANCE WITH THE MEANS, METHODS, TECHNIQUES, SEQUENCES AND OPERATIONS OF CONSTRUCTION, AND ALL SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO. A MINIMUM OF TWO WEEKS SHALL BE ALLOWED FOR REVIEW.
- 13. SHOP DRAWING SUBMITTALS PROCESSED BY THE ENGINEER ARE NOT CHANGE ORDERS. THE PURPOSE OF SHOP DRAWING SUBMITTALS BY THE CONTRACTOR IS TO DEMONSTRATE TO THE ENGINEER THAT THE CONTRACTOR UNDERSTANDS THE DESIGN CONCEPT, BY INDICATING WHICH MATERIAL IS INTENDED TO BE FURNISHED AND INSTALLED AND BY DETAILING THE INTENDED FABRICATION AND INSTALLATION METHODS. IF DEVIATIONS, DISCREPANCIES, OR CONFLICTS BETWEEN SHOP DRAWING SUBMITTALS AND THE CONTRACT DOCUMENTS ARE DISCOVERED EITHER PRIOR TO OR AFTER SHOP DRAWING SUBMITTALS ARE PROCESSED BY THE ENGINEER. THE DESIGN DRAWINGS AND SPECIFICATIONS SHALL CONTROL AND SHALL BE FOLLOWED.

GEOTECHNICAL

14. FOUNDATION NOTES: SUBGRADE PREPARATION INCLUDING DRAINAGE, EXCAVATION, COMPACTION, AND FILLING REQUIREMENTS, SHALL CONFORM STRICTLY WITH RECOMMENDATIONS GIVEN IN THE GEOTECHNICAL REPORT OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER. FOOTINGS SHALL BEAR ON SOLID UNDISTURBED EARTH (CONTROLLED, COMPACTED STRUCTURAL FILL OR BOTH) AT LEAST 18" BELOW LOWEST ADJACENT FINISHED GRADE. FOOTING DEPTHS/ELEVATIONS SHOWN ON PLANS (OR IN DETAILS) ARE MINIMUM AND FOR GUIDANCE ONLY; THE ACTUAL ELEVATIONS OF FOOTINGS MUST BE ESTABLISHED BY THE CONTRACTOR IN THE FIELD WORKING WITH THE TESTING LAB AND GEOTECHNICAL ENGINEER. UNLESS OTHERWISE NOTED. FOOTINGS SHALL BE CENTERED UNDER COLUMNS OR WALLS ABOVE.

BACKFILL BEHIND ALL RETAINING WALLS WITH FREE DRAINING GRANULAR FILL AND PROVIDE FOR SUBSURFACE DRAINAGE AS NOTED IN THE GEOTECHNICAL REPORT.

THE STRUCTURAL DESIGN IS BASED ON THE FOLLOWING VALUES FROM THE REFERENCED GEOTECHNICAL REPORT ALLOWABLE SOIL BEARING PRESSURE 2,500 PSF

GEOTECHNICAL REPORT REFERENCE:PROJECT # 2EH03221024 DATED OCT.5^{1H}, 2023 PREPARED BY MERIT ENGINEERING, INC.

CONCRETE

15. CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED AND PLACED IN ACCORDANCE WITH ACI 301. CONSTRUCTION TOLERANCES SHALL NOT EXCEED THOSE LISTED IN ACI 117. STRENGTHS AT 28 DAYS AND MIX CRITERIA SHALL BE AS FOLLOWS:

| TYPE OF CONSTRUCTION | 28 DAY STRENGTH (fc) | MAXIMUM <u>SLUMP</u> | MIN. CEMENT CONTENT PER CUBIC YARD | MAX. AGGREGATE SIZE |
|---------------------------------|-------------------------|-------------------------|------------------------------------|------------------------|
| A. FOOTINGS, SLABS-ON-GRADE, | 2,500 PSI | 5" | 5-1/2 SACKS | 1 1/4" |

STEM WALLS

(#5 BARS OR SMALLER)

MIXES SHALL BE PROPORTIONED SO AS NOT TO EXCEED THE MAXIMUM SLUMPS INDICATED (BEFORE THE ADDITION OF ADMIXTURES). THE WATER/CEMENT RATIO SHALL NOT EXCEED 0.55 FOR FOOTINGS AND 0.45 FOR ALL SLABS AND EXPOSED CONCRETE.

THE MINIMUM AMOUNT OF CEMENT AND THE MAXIMUM SLUMP MAY BE CHANGED IF A CONCRETE PERFORMANCE MIX IS SUBMITTED TO THE STRUCTURAL ENGINEER AND THE BUILDING DEPARTMENT FOR APPROVAL TWO WEEKS PRIOR TO PLACING ANY CONCRETE. (THE W/C RATIO LIMITS STILL APPLY). THE PERFORMANCE MIX SHALL INCLUDE THE AMOUNTS OF CEMENT, CEMENTITIOUS MATERIAL, FINE AND COARSE AGGREGATE, WATER AND ADMIXTURES AS WELL AS THE WATER/CEMENT RATIO. SLUMP, CONCRETE YIELD AND SUBSTANTIATING STRENGTH DATA IN ACCORDANCE WITH ACI 301. CHEMICAL ADMIXTURES AND FLY ASH SHALL CONFORM TO ASTM C494 AND C618 RESPECTIVELY. FLY ASH PERCENTAGE OF TOTAL CEMENTITIOUS MATERIAL SHALL NOT EXCEED 20%. THE USE OF A PERFORMANCE MIX REQUIRES BATCH PLANT INSPECTION, THE COST OF WHICH SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER. REVIEW OF MIX SUBMITTALS BY THE ENGINEER OF RECORD INDICATES ONLY THAT INFORMATION PRESENTED CONFORMS GENERALLY TO CONTRACT DOCUMENTS. CONTRACTOR MAINTAINS FULL RESPONSIBILITY FOR SPECIFIED PERFORMANCE.

16. REINFORCING STEEL SHALL CONFORM TO ASTM A615 (INCLUDING SUPPLEMENT S1), GRADE 60, fy = 60,000 PSI. GRADE 60 REINFORCING STEEL INDICATED ON DRAWINGS TO BE WELDED SHALL CONFORM TO ASTM A706. REINFORCING STEEL COMPLYING WITH ASTM A615 (S1) MAY BE WELDED ONLY IF MATERIAL PROPERTY REPORTS INDICATING CONFORMANCE WITH WELDING PROCEDURES SPECIFIED IN A.W.S. D1.4 ARE SUBMITTED.

LONGITUDINAL REINFORCING STEEL IN DUCTILE FRAME MEMBERS AND IN SHEAR WALL BOUNDARY MEMBERS SHALL COMPLY WITH ASTM A706. ASTM A615 GRADE 60 REINFORCING STEEL IS ALLOWED IN THESE MEMBERS IF (A) THE ACTUAL YIELD STRENGTH BASED ON MILL TESTS DOES NOT EXCEED THE SPECIFIED YIELD STRENGTH BY MORE THAN 18,000 PSI (RETESTS SHALL NOT EXCEED THIS VALUE BY MORE THAN AN ADDITIONAL 3,000 PSI) AND (B) THE RATIO OF THE ACTUAL ULTIMATE TENSILE STRESS TO THE ACTUAL TENSILE YIELD STRENGTH IS NOT LESS THAN 1,25.

WELDED WIRE FABRIC SHALL CONFORM TO ASTM A1064. LAP ADJACENT MATS OF WELDED WIRE FABRIC A MINIMUM OF 8" AT SIDES AND ENDS.

SPIRAL REINFORCEMENT SHALL BE PLAIN WIRE CONFORMING TO ASTM A615, GRADE 60, fy = 60,000 PSI.

17. REINFORCING STEEL SHALL BE DETAILED (INCLUDING HOOKS AND BENDS) IN ACCORDANCE WITH ACI 315 AND 318. LAP ALL CONTINUOUS REINFORCEMENT #5 AND SMALLER 60 BAR DIAMETERS, 2'-0" MINIMUM. PROVIDE CORNER BARS AT ALL WALL AND FOOTING INTERSECTIONS. LAP CORNER BARS #5 AND SMALLER 60 BAR DIAMETERS OR 2'-0" MINIMUM. LAPS OF LARGER BARS SHALL BE MADE IN ACCORDANCE WITH ACI 318, CLASS B. LAP ADJACENT MATS OF WELDED WIRE FABRIC A MINIMUM OF 8" AT SIDES AND ENDS. PROVIDE (2) #5 MIN. U.N.O. TRIM BARS AROUND ALL OPENINGS IN CONCRETE WALLS OR SLABS EXTENDING 2'-6" PAST CORNERS, TYPICAL.

NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BENT UNLESS SPECIFICALLY SO DETAILED OR APPROVED BY THE STRUCTURAL ENGINEER. NO REINFORCING BARS SHALL BE "WET-SET" INTO THE CONCRETE, PROVIDE A 20' LONG REBAR GROUND (UFER GROUND) PER ELECTRICIAN.

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

FOOTINGS AND OTHER UNFORMED SURFACES CAST AGAINST EARTH FORMED SURFACES EXPOSED TO EARTH (i.e. WALLS BELOW GROUND) OR WEATHER

SLABS AND WALLS (INTERIOR FACE) GREATER OF (BAR DIAMETER PLUS 1/8") OR 3/4"

- 19. CAST-IN-PLACE CONCRETE: SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND DIMENSIONS OF DOOR AND WINDOW OPENINGS IN ALL CONCRETE WALLS. SEE MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF MISCELLANEOUS MECHANICAL OPENINGS THROUGH CONCRETE WALLS. SEE ARCHITECTURAL DRAWINGS FOR ALL GROOVES, NOTCHES, CHAMFERS, FEATURE STRIPS, COLOR, TEXTURE, AND OTHER FINISH DETAILS AT ALL EXPOSED CONCRETE SURFACES, BOTH CAST-IN-PLACE AND PRECAST.
- 20. POLYSTYRENE (RIGID INSULATION) LIGHTWEIGHT STRUCTURAL FILL PLACED BELOW CONCRETE SLABS SHALL BE RIGID CELLULAR POLYSTYRENE CONFORMING TO ASTM D6817 OR ASTM C578, WITH A MINIMUM COMPRESSIVE RESISTANCE OF 5 PSI @ 1% DEFORMATION AND A MINIMUM COMPRESSIVE RESISTANCE OF 15 PSI @ 10 % DEFORMATION, U.O.N. MAXIMUM DENSITY SHALL BE 2.0 PCF. OFFSET BLOCK JOINTS BETWEEN ADJACENT LAYERS AND ATTACH BLOCKS PER THE MANUFACTURER'S RECOMMENDATIONS.

ANCHORAGE

21. SCREW ANCHORS INTO CONCRETE SHALL BE "TITEN HD", AS MANUFACTURED BY SIMPSON STRONG-TIE ANCHOR SYSTEMS. INSTALL IN STRICT ACCORDANCE WITH I.C.C. REPORT NO. ESR-2713 INCLUDING STANDARD EMBEDMENT REQUIREMENTS U.O.N. PROPOSED SUBSTITUTIONS SHALL BE SUBMITTED FOR REVIEW WITH I.C.C. OR IAPMO UES REPORTS INDICATING EQUIVALENT OR GREATER LOAD CAPACITIES. SPECIAL INSPECTION IS REQUIRED FOR ALL SCREW ANCHOR INSTALLATION.

<u>WOOD</u>

22. FRAMING LUMBER: SHALL BE KILN DRIED OR MC-19 (MOISTURE CONTENT LESS THAN 19%), AND GRADED AND MARKED IN CONFORMANCE WITH W.C.L.I.B. STANDARD NO. 17 GRADING RULES FOR WEST COAST LUMBER. FURNISH TO THE FOLLOWING MINIMUM STANDARDS:

DOUGLAS FIR OR HEM-FIR NO. 2 JOISTS (2X AND 4X MEMBERS)

BEAMS AND STRINGERS (INCLUDING 6 X AND LARGER MEMBERS)

DOUGLAS FIR OR HEM-FIR NO. 2 STUDS, PLATES & MISCELLANEOUS LIGHT FRAMING (AS NOTED ON PLANS / DETAILS)

HEM-FIR COMMERCIAL DEX 2X, 3X AND 4X TONGUE AND GROOVE DECKING

- 23. WOOD SETTLEMENT SHRINKAGE: DUE TO CROSS GRAIN WOOD SHRINKAGE, THIS BUILDING IS EXPECTED TO SETTLE APPROXIMATELY 1/8 TO 1/4 INCH PER STORY. ALL UTILITIES SHALL BE DESIGNED WITH FLEXIBLE JOINTS OR OTHER MEANS TO APPROPRIATELY ACCOMMODATE THIS NORMAL SETTLEMENT. ALL INTERIOR AND EXTERIOR SHEATHING AND FINISHES SHALL BE INSTALLED SUCH THAT NO DAMAGE WILL OCCUR. SHRINKAGE IS EXPECTED IN THE THICKNESS OF THE WALL PLATES AND NOT IN THE LENGTH OF THE WALL STUDS.
- 24. LAMINATED VENEER LUMBER (LVL) SHALL BE DESIGNED AND MANUFACTURED PER ASTM D5456. EACH PIECE SHALL BEAR A STAMP OR STAMPS NOTING THE NAME AND PLANT NUMBER OF THE MANUFACTURER, THE GRADE, AND THE INDEPENDENT INSPECTION AGENCY'S LOGO. ALL LAMINATED VENEER LUMBER SHALL BE MANUFACTURED USING DOUGLAS FIR VENEER GLUED WITH A WATERPROOF ADHESIVE MEETING THE REQUIREMENTS OF ASTM D2559 WITH ALL GRAIN PARALLEL WITH THE LENGTH OF THE MEMBER. MINIMUM STRUCTURAL PROPERTIES ARE AS FOLLOWS:

Fb = 2600 PSI, E = 2.0×10^6 PSI, Fv = 285 PSI

POSTS AND TIMBERS

DESIGN SHOWN ON PLANS IS BASED ON MATERIALS MANUFACTURED BY THE WEYERHAEUSER CORPORATION. ALTERNATE MANUFACTURERS MAY BE USED SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER.

25. LAMINATED STRAND LUMBER (LSL) SHALL BE DESIGNED AND MANUFACTURED PER ASTM D5456. EACH PIECE SHALL BEAR A STAMP OR STAMPS NOTING THE NAME AND PLANT NUMBER OF THE MANUFACTURER, THE GRADE, AND THE INDEPENDENT INSPECTION AGENCY'S LOGO. ALL LAMINATED STRAND LUMBER SHALL BE MANUFACTURED USING A WATERPROOF ADHESIVE MEETING THE REQUIREMENTS OF ASTM D2559. MINIMUM STRUCTURAL PROPERTIES ARE AS FOLLOWS:

RIM JOISTS AND BLOCKING (1-1/4" MINIMUM THICKNESS AT NON-SHEAR WALLS; SEE SCHEDULE FOR MINIMUM THICKNESS AT SHEAR WALLS):

Fb = 1700 PSI, E = 1.3×10^6 PSI, Fv = 400 PSI

BEAMS AND HEADERS: Fb = 2325 PSI, E = 1.55×10^6 PSI, Fv = 310 PSI

Fb = 1700 PSI, E = 1.3×10^6 PSI, Fv = 400 PSI Fb = 2425 PSI, E = 1.6×10^6 PSI, Fv = 400 PSI

COLUMNS:

1-1/2"

Fb = 1700 PSI, E = 1.3×10^6 PSI, Fv = 400 PSI

DESIGN SHOWN ON PLANS IS BASED ON MATERIALS MANUFACTURED BY THE WEYERHAEUSER CORPORATION. ALTERNATE MANUFACTURERS MAY BE USED SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER.

- 26. PARALLEL STRAND LUMBER (PSL) SHALL BE DESIGNED AND MANUFACTURED PER ASTM D5456. EACH PIECE SHALL BEAR A STAMP OR STAMPS NOTING THE NAME AND PLANT NUMBER OF THE MANUFACTURER, THE GRADE, AND THE INDEPENDENT INSPECTION AGENCY'S LOGO. ALL PARALLEL STRAND LUMBER SHALL BE MANUFACTURED USING DOUGLAS FIR STRANDS GLUED WITH A WATERPROOF ADHESIVE MEETING THE REQUIREMENTS OF ASTM D2559 WITH ALL GRAIN PARALLEL WITH THE LENGTH OF THE MEMBER. MINIMUM STRUCTURAL PROPERTIES ARE AS FOLLOWS:
 - Fb = 2900 PSI, E = 2.2×10^6 PSI, Fv = 290 PSI
 - Fb = 2400 PSI, E = 1.8×10^6 PSI, F'c = 2500 PSI (COMMERCIAL COLUMNS)

DESIGN SHOWN ON PLANS IS BASED ON MATERIALS MANUFACTURED BY THE WEYERHAEUSER CORPORATION. ALTERNATE MANUFACTURERS MAY BE USED SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER.

SHEET INDEX S1.0 GENERAL STRUCTURAL NOTES/SHEET INDEX S1.1 GENERAL STRUCTURAL NOTES S2.0 FOUNDATION PLAN S2.1 UPPER FLOOR FRAMING PLAN ROOF FRAMING PLAN S3.0 FOUNDATION DETAILS FRAMING SCHEDULES S4.0 FRAMING DETAILS S4.2 FLOOR FRAMING DETAILS S4.3 ROOF FRAMING DETAILS



CONSULTANT STAMP: APPROVED 11/17/2023

DOUGLAS FIR NO. 1

DOUGLAS FIR NO. 1

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98040

6450 E MERCER WAY MERCER ISLAND, WA **REVISIONS:** DATE NO. DESCRIPTION

PROJECT NUMBER **ISSUE DATE** 11.17.2023 **CURRENT REVISION**

SHEET NAME:

GENERAL STRUCTURAL NOTES/SHEET INDEX

SHEET NUMBER:

S1.0

GENERAL STRUCTURAL NOTES

(The following apply unless shown otherwise on the plans)

27. WOOD I-JOISTS SHALL BE DESIGNED BY THE MANUFACTURER FOR THE SPANS AND CONDITIONS SHOWN ON THE PLANS AND SHALL BE FURNISHED AND INSTALLED IN CONFORMANCE WITH THE MANUFACTURER'S PUBLISHED SPECIFICATIONS. ALL NECESSARY BRIDGING, BLOCKING, BLOCKING PANELS, STIFFENERS, ETC., SHALL BE DETAILED AND FURNISHED BY THE MANUFACTURER. SUBMIT SHOP DRAWINGS AND DESIGN CALCULATIONS TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION. DESIGN SUBMITTALS SHALL BEAR THE STAMP AND SIGNATURE OF A STATE OF WASHINGTON REGISTERED PROFESSIONAL ENGINEER. PERMANENT AND TEMPORARY BRIDGING SHALL BE INSTALLED IN CONFORMANCE WITH MANUFACTURER'S SPECIFICATIONS. GLUE FLOOR JOISTS TO SHEATHING AS REQUIRED BY THE JOIST MANUFACTURER.

DESIGN SHOWN ON PLANS IS BASED ON JOISTS MANUFACTURED BY THE WEYERHAEUSER CORPORATION. ALTERNATE WOOD I-JOIST MANUFACTURERS MAY BE USED SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER. ALTERNATE JOIST HANGERS AND OTHER HARDWARE MAY BE SUBSTITUTED FOR ITEMS SHOWN PROVIDED THEY HAVE I.C.C. OR IAPMO UES APPROVAL FOR EQUAL OR GREATER LOAD CAPACITIES. ALL JOIST HANGERS AND OTHER HARDWARE SHALL BE COMPATIBLE IN SIZE WITH PLYWOOD WEB JOIST PROVIDED.

28. PREFABRICATED CONNECTOR PLATE WOOD ROOF TRUSSES SHALL BE DESIGNED BY THE MANUFACTURER IN ACCORDANCE WITH IBC SECTION 2303.4 AND ANSI/TPI 1-2014 "NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION" FOR THE SPANS AND CONDITIONS SHOWN ON THE PLANS. TRUSSES SHALL BE HANDLED, INSTALLED, AND BRACED PER "HIB 91" PER THE TRUSS PLATE INSTITUTE. LOADING SHALL BE AS FOLLOWS:

TOP CHORD SNOW LOAD

TOP CHORD DL ALLOWANCE FOR PV PANELS

TOP CHORD DEAD LOAD

5 PSF

BOTTOM CHORD LIVE LOAD

BOTTOM CHORD DEAD LOAD

TOTAL LOAD

NET WIND UPLIFT (TOP CHORD)

25 PSF

5 PSF

10 PSF

40 PSF

THE LOADS ABOVE SHALL BE INCREASED TO THE FOLLOWING IF THE TRUSSES MEET THE DESCRIPTION OF AN "UNINHABITABLE ATTIC WITH LIMITED STORAGE" AS DEFINED IN FOOTNOTE; OF IBC TABLE 1607.1:

BOTTOM CHORD LIVE LOAD

20 PSF - INCLUDE IN TOTAL
BOTTOM CHORD DEAD LOAD

10 PSF

SNOW LOAD DUE TO DRIFTING AND UNBALANCED LOADS SHALL BE INCLUDED PER THE IBC. TOP CHORDS SHALL BE DF LUMBER. UTILIZE A MINIMUM CREEP FACTOR OF 2.0 FOR DEAD AND SUSTAINED LIVE LOADS IN DETERMINING THE TRUSS DEFLECTIONS. MAXIMUM TOTAL DEFLECTION SHALL BE LESS THAN OR EQUAL TO L/240 OF THE TOTAL SPAN AND MAXIMUM LIVE LOAD DEFLECTION SHALL BE LESS THAN OR EQUAL TO L/360 OF THE TOTAL SPAN. PROVIDE ADEQUATE PLIES AND/OR METAL BRACKETS TO ADEQUATELY DISTRIBUTE THE BEARING PRESSURE AT THE ENDS OF THE GIRDER TRUSSES TO THE TOP PLATES OF THE BEARING WALLS SUCH THAT THE BEARING PRESSURE DOES NOT EXCEED 405 PSI. PROVIDE ADDITIONAL TRUSSES (AS REQUIRED) TO CARRY ALL CONCENTRATED LOADS AND MECHANICAL UNITS.

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

29. WOOD SHEATHING SHALL BE APA RATED, EXTERIOR GLUE; EXPOSURE 1, IN CONFORMANCE WITH THE REQUIREMENTS FOR THEIR TYPE IN DOC PS-1 OR PS-2. SEE PLANS FOR THICKNESS, PANEL IDENTIFICATION INDEX AND NAILING REQUIREMENTS.

UNLESS OTHERWISE NOTED ON THE PLANS, ROOF AND FLOOR SHEATHING SHALL BE LAID UP WITH FACE GRAIN PERPENDICULAR TO SUPPORTS. ALL FLOOR SHEATHING EDGES SHALL HAVE APPROVED TONGUE-AND-GROOVE JOINTS OR SHALL BE SUPPORTED WITH SOLID BLOCKING. ALLOW 1/8" SPACING AT ALL PANEL EDGES AND ENDS OF FLOOR AND ROOF SHEATHING. TOENAIL BLOCKING TO SUPPORTS WITH (2) 10d-F NAILS AT EACH END, UNLESS OTHERWISE NOTED. AT BLOCKED FLOOR AND ROOF DIAPHRAGMS PROVIDE FLAT 2X BLOCKING AT ALL UNFRAMED PANEL EDGES AND NAIL WITH EDGE NAILING SPACED PER PLANS.

- 30. ALL WOOD EXPOSED TO WEATHER, OR BEARING ON UNPROTECTED CONCRETE BELOW GRADE, OR BEARING ON UNPROTECTED CONCRETE LESS THAN 8" FROM EXPOSED EARTH SHALL BE PRESSURE-TREATED, U.O.N. PRESSURE TREATMENT SHALL BE WITH AN APPROVED PRESERVATIVE AND BRANDED WITH A QUALITY CONTROL AGENCY MARK BY THE AMERICAN WOOD PRESERVERS BUREAU OR EQUAL. ALL METAL HARDWARE IN CONTACT WITH TREATED WOOD SHALL BE PROTECTED WITH A G185 GALVANIZED COATING (ZMAX) OR BETTER. ALL NAILS IN TREATED WOOD SHALL BE HOT-DIP GALVANIZED OR BETTER. PROVIDE 2 LAYERS OF 30# ASPHALT IMPREGNATED BUILDING PAPER BETWEEN NON-PRESSURE-TREATED LEDGERS, BLOCKING, ETC., AND CONCRETE.
- 31. TIMBER CONNECTORS CALLED OUT BY LETTERS AND NUMBERS SHALL BE "STRONG-TIE" BY SIMPSON COMPANY, AS SPECIFIED IN THEIR CATALOG NO. C-C-2019. EQUIVALENT DEVICES BY OTHER MANUFACTURERS MAY BE SUBSTITUTED, PROVIDED THEY HAVE I.C.C. OR IAPMO UES APPROVAL FOR EQUAL OR GREATER LOAD CAPACITIES. CONNECTORS SHALL BE SIZED TO MATCH THE SIZE OF THE FRAMING MEMBERS BEING CONNECTED. PROVIDE NUMBER AND SIZE OF FASTENERS AS SPECIFIED BY MANUFACTURER. CONNECTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. WHERE CONNECTOR STRAPS CONNECT TWO MEMBERS, PLACE ONE-HALF OF THE NAILS OR BOLTS IN EACH MEMBER. ALL BOLTS IN WOOD MEMBERS SHALL CONFORM TO ASTM A307. PROVIDE WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS BEARING ON WOOD. UNLESS NOTED OTHERWISE, ALL NAILS SHALL BE COMMON. ALL SHIMS SHALL BE SEASONED AND DRIED AND THE SAME GRADE (MINIMUM) AS MEMBERS CONNECTED. ALL BOLTS TIGHTENED TO SNUG TIGHT.
- 32. WOOD FASTENERS:

A. <u>NAIL SIZES</u> SPECIFIED ON DRAWINGS ARE BASED ON THE FOLLOWING SPECIFICATIONS:

| DRAWING ID | NAIL NAME | NAIL DIAMETER | NAIL LENGTH |
|------------|------------|---------------|-------------|
| "6d" | 6d Common | 0.113" | 2" |
| "8d Box" | 8d Box | 0.113" | 2-1/2" |
| "8d" | 8d Common | 0.131" | 2-1/2" |
| "10d-F" | 10d Framer | 0.131" | 3" |
| "10d" | 10d Shear | 0.148" | 2-1/4" |
| "16d" | 16d Sinker | 0.148" | 3-1/4" |

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

- B. <u>NAILS</u> SHEATHING FASTENERS TO FRAMING SHALL BE DRIVEN FLUSH TO FACE OF SHEATHING WITH NO COUNTERSINKING PERMITTED.
- C. <u>SCREWS</u> SHALL BE WOOD SCREWS OF THE DIAMETER AND LENGTH NOTED ON THE DRAWINGS. SDS FASTENERS ARE SIMPSON STRONG DRIVE SCREWS.
- D. <u>HOT_DIPPED_GALVANIZED_NAILS, BOLTS_AND_METAL_PLATES</u> ALL NAILS, BOLTS_AND_METAL_PLATES IN CONTACT_WITH PRESSURE TREATED (INCLUDING FIRE-RETARDANT TREATED) LUMBER SHALL BE HOT DIPPED GALVANIZED.
- 33. WOOD FRAMING NOTES: THE FOLLOWING APPLY UNLESS OTHERWISE SHOWN ON THE PLANS:
- A. ALL <u>WOOD FRAMING DETAILS</u> NOT SHOWN OTHERWISE SHALL BE CONSTRUCTED TO THE MINIMUM STANDARDS OF THE IBC. MINIMUM NAILING, UNLESS OTHERWISE NOTED, SHALL CONFORM TO IBC TABLE 2304.10.1. COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS. PROVIDE WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS BEARING ON WOOD. TIGHTEN BOLTS AND LAG SCREWS SNUGLY AGAINST WOOD FRAMING AFTER WOOD HAS REACHED SPECIFIED MOISTURE CONTENT.
- B. <u>WALL FRAMING</u>: ALL BEARING AND SHEAR WALLS SHOWN AND NOT OTHERWISE NOTED SHALL BE 2 x 4 STUDS @ 16" O.C. AT INTERIOR WALLS AND 2 x 6 @ 16" O.C. AT EXTERIOR WALLS. TWO STUDS MINIMUM SHALL BE PROVIDED AT THE END OF ALL BEARING AND SHEAR WALLS AND AT EACH SIDE OF ALL OPENINGS. SOLID BLOCKING FOR WOOD COLUMNS SHALL BE PROVIDED THROUGH FLOORS TO SUPPORTS BELOW.

ALL BEARING STUD WALLS SHALL HAVE THEIR LOWER WOOD PLATES ATTACHED TO WOOD FRAMING BELOW WITH 16d NAILS AT 8" O.C. STAGGERED OR BOLTED TO CONCRETE WITH 5/8" DIAMETER ANCHOR BOLTS WITH 3"x3"x1/4" PLATE WASHERS @ 4'-0" O.C., UNLESS INDICATED OTHERWISE. INDIVIDUAL MEMBERS OF BUILT-UP POSTS SHALL BE NAILED TO EACH OTHER WITH 10d-F NAILS @ 8" O.C. STAGGERED. REFER TO THE PLANS AND SHEAR WALL SCHEDULE FOR REQUIRED SHEATHING AND NAILING. WHEN NOT OTHERWISE NOTED, PROVIDE GYPSUM WALLBOARD ON INTERIOR SURFACES AND GYPSUM SHEATHING ON EXTERIOR SURFACES ATTACHED TO ALL STUDS, TOP AND BOTTOM PLATES AND BLOCKING WITH SCREWS AT 8" O.C. USE 1-1/4 " W #6 SCREWS FOR 1/2" GWB AND 5/8" GWB WHERE OCCURS. USE 1-1/4" W #6 GALVANIZED SCREWS FOR 1/2" GWB AND 5/8" EXTERIOR GYPSUM SHEATHING, WHERE OCCURS. VERIFY THE FIRE ASSEMBLY REQUIREMENTS WHERE APPLICABLE WITH THE ARCHITECT.

- C. <u>FLOOR AND ROOF FRAMING</u>: PROVIDE DOUBLE JOISTS UNDER ALL PARALLEL PARTITIONS THAT EXTEND OVER MORE THAN HALF THE JOIST LENGTH AND AROUND ALL OPENINGS IN FLOORS OR ROOFS UNLESS OTHERWISE NOTED. PROVIDE SOLID BLOCKING AT ALL BEARING POINTS. NAIL ALL MULTI-JOIST BEAMS TOGETHER WITH 10d-F NAILS @ 8" O.C. STAGGERED UNLESS OTHERWISE NOTED.
- D. <u>POSITIVE CONNECTIONS</u>: PROVIDE THE FOLLOWING SIMPSON CONNECTORS AT TYPICAL FRAMING UNLESS OTHERWISE NOTED ON PLAN OR DETAIL. PROVIDE CCQ/ECCQ CAPS AND PBS BASES AT POSTS. PROVIDE BC BASE WHERE POST BEARS ON WOOD FRAMING BELOW. PROVIDE LUS SERIES HANGERS FOR 2X FLOOR AND ROOF JOISTS. CONNECTORS SHALL BE SIZED TO MATCH THE SIZE OF THE FRAMING MEMBERS BEING CONNECTED.
- 34. TONGUE AND GROOVE STRUCTURAL ROOF AND FLOOR DECKING SHALL BE INSTALLED AS A RANDOM LENGTH CONTINUOUS LAY-UP SYSTEM. INSTALL DECKING IN RANDOM LENGTHS OVER 3 OR MORE SPANS WITH EACH LENGTH OF DECKING OVER AT LEAST ONE FRAMING SUPPORT MEMBER. LAY WITH TONGUES FACING UPWARD ON SLOPED DECKING. FOR 2X AND 3X DECKING THE MAXIMUM MOISTURE CONTENT SHALL BE 15%. FOR 4X DECKING THE MAXIMUM MOISTURE CONTENT SHALL BE 19%.
- END JOINTS: DISPERSE END JOINTS AS RANDOMLY AS POSSIBLE TO MAKE EVEN SEPARATION PATTERN.
- A. AT LEAST 24-INCH APART AT ADJACENT PLANKS.
- B. MORE THAN 1-FOOT APART AT ALTERNATE PLANKS SEPARATED BY ONE ROW.
- C. NO END JOINTS IN 1/3 OF END SPAN COURSE BETWEEN FRAMING MEMBERS.
- D. END MATCH EACH JOINT.

THE MINIMUM LENGTHS SHALL BE BASED ON THE FOLLOWING:

2X DECKING

· NOT LESS THAN 40% TO BE 14 FEET AND LONGER.

NOT OVER 10% TO BE LESS THAN 10 FEET.

NOT OVER 1% TO BE 4 TO 5 FEET.

DECKING SHALL BE INSTALLED AS FOLLOWS:

2X DECKING SHALL BE TOENAILED THROUGH THE TONGUE AND FACENAILED WITH ONE 16d COMMON NAIL PER PIECE PER SUPPORT. COURSES SHALL BE ATTACHED TO EACH OTHER WITH 6d COMMON TOENAILS @ 30" O.C. MAXIMUM.

| Anç | L | At | 1 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Pou | LB. | Penny (Nails) |) |
| Live Lo | LL | Diameter | |
| Long Leg Horizon | LLH | Degrees Pounds | .# |
| Long Leg Verti | LLV | | .# |
| Longitudir Lightweiç | LONGIT. LT. WT. | Number | |
| Lightwork | Z1. VV1. | Above | ٨) |
| Maximu | MAX. | Anchor Bolt | .B. |
| Mechani | MECH. | Additional | DD'L |
| Mezzani | MEZZ. | Alternate | LT. |
| Moment Fran | MF | Approximate | PPROX. |
| Manufactu | MFR. | Architect | RCH. |
| Minimu | MIN. | | |
| Miscellaneo | MISC. | Below | 3) |
| Ma | MK. | Bottom of | ĺ |
| | | Braced Frame | F |
| Ne | (N) | Blocking | LKG. |
| No | N. | Building | LDG. |
| Near Si | N.S. | Beam | M. |
| Nomir | NOM. | Bottom | OT. |
| Not to Sca | NTS | Bearing | RG. |
| | | Between | TWN. |
| On Cen | O.C. | | |
| Outside Diame | O.D. | Centerline | |
| Outside Fa | O.F. | Camber | |
| Overha | O.H. | Cast In Place | IP |
| Openi | OPNG. | Construction Joint or Control Joint | .J. |
| Oppos | OPP. | Complete Joint Penetration | JP |
| Oppos | V 111 | Complete John Ferietration Ceiling | LG. |
| Powder Actuated Faster | PAF | Clear | LG. LR. |
| Powder Actuated Faster Preca | PC PC | Concrete Masonry Unit | MU |
| | | | OL. |
| Permane | PERM. | Column | OL. ONC. |
| Perpendicu | PERP. | Concrete | |
| Partial Joint Penetrati | PJP | Connections | ONN. |
| Pla Davinda nar linaar Fr | PLor PL | Construction | ONST. |
| Pounds per linear Fo | PLF | Continuous | ONT. |
| Plywo | PLYWD | Countersink | SK. |
| Prefabricat | PREFAB. | _ , | |
| Pounds per Square Fo | PSF | Deformed Bar Anchor | BA |
| Pounds per Square In | PSI | Double | BL. |
| Post-Tensioni | P.T. or PT | Degree | EG. |
| Pressure-Treat | P/T | Doug Fir-Larch | F |
| | | Diameter | IA. |
| Radi | RAD. | Diagonal | IAG. |
| Referen | REF. | Diaphragm | IAPH. |
| Reinforce or Reinforceme | REINF. | Dimension | IM. |
| Requir | REQD. | Down | N. |
| Revi | REV. | Ditto | 0 |
| Rough Openi | R.O. | Detail | TL. |
| | | Drawing | WG. |
| Sou | S. | | - \ |
| Schedu | SCH. or SCHED. | Existing | Ξ) |
| Secti | SECT. | East | |
| O.L. | SHT. | Each | A. |
| She | SIM. | Each Face | .F. |
| Simi | SOG | Elevation | L. |
| Simi Slab On Gra | | Elevator | LEV. |
| Simi | SPEC. | Embedment Length | MDED |
| Simi Slab On Gra | | | IVIDED. |
| Simi Slab On Gra Specificati | SPEC. | Engineer | |
| Simi Slab On Gra Specificati Squa | SPEC. SQ. | Engineer Equal | NGR. |
| Simi Slab On Gra Specificati Squa Square Fe | SPEC. SQ. SQ. FT. | | NGR. Q. |
| Simi Slab On Gra Specificati Squa Square Fe Square Inch(e | SPEC. SQ. SQ. FT. SQ. IN. | Equal | NGR. Q. W. |
| Simi Slab On Gra Specificati Squa Square Fe Square Inch(e Spruce-Pine- | SPEC. SQ. SQ. FT. SQ. IN. SPF | Equal Each Way | NGR. Q. W. XP. |
| Simi Slab On Gra Specificati Square Fe Square Inch(e Spruce-Pine- Stainless Ste | SPEC. SQ. SQ. FT. SQ. IN. SPF S.S. | Equal Each Way Expansion | NGR. Q. W. XP. |
| Simi Slab On Gra Specificati Square Fe Square Inch(e Spruce-Pine- Stainless Ste Standa Stiffer | SPEC. SQ. SQ. FT. SQ. IN. SPF S.S. STD. STIFF. | Equal Each Way Expansion | NGR. Q. .W. XP. XT. |
| Simi Slab On Gra Specificati Square Fe Square Inch(e Spruce-Pine- Stainless Ste Standa Stiffer | SPEC. SQ. SQ. FT. SQ. IN. SPF S.S. STD. | Equal Each Way Expansion Exterior | NGR. Q. .W. XP. XT. |
| Simi Slab On Gra Specificati Square Fe Square Inch(e Spruce-Pine- Stainless Ste Standa Stiffer Ste Structu | SPEC. SQ. SQ. FT. SQ. IN. SPF S.S. STD. STIFF. STL. STR. | Equal Each Way Expansion Exterior Foundation Finish | NGR. Q. W. XP. XT. DN. N. |
| Simi Slab On Gra Specificati Square Fe Square Inch(e Spruce-Pine- Stainless Ste Standa Stiffer Ste Structu Substitu | SPEC. SQ. SQ. FT. SQ. IN. SPF S.S. STD. STIFF. STL. STR. SUB. | Equal Each Way Expansion Exterior Foundation Finish Floor | NGR. Q. W. XP. XT. DN. N. _R. |
| Simi Slab On Gra Specificati Square Fe Square Inch(e Spruce-Pine- Stainless Ste Standa Stiffer Ste Structu | SPEC. SQ. SQ. FT. SQ. IN. SPF S.S. STD. STIFF. STL. STR. | Equal Each Way Expansion Exterior Foundation Finish | NGR. Q. W. XP. XT. ON. N. LR. RP |
| Simi Slab On Gra Specificati Square Fe Square Inch(e Spruce-Pine- Stainless Ste Standa Stiffer Ste Structu Substitu Symmetric | SPEC. SQ. SQ. FT. SQ. IN. SPF S.S. STD. STIFF. STL. STR. SUB. | Equal Each Way Expansion Exterior Foundation Finish Floor Fiber Reinforced Polymer | NGR. Q. W. XP. XT. DN. N. -R. RP S. |
| Simi Slab On Gra Specificati Square Fe Square Inch(e Spruce-Pine- Stainless Ste Standa Stiffer Ste Structu Substitu Symmetric | SPEC. SQ. SQ. FT. SQ. IN. SPF S.S. STD. STIFF. STL. STR. SUB. SYM. | Equal Each Way Expansion Exterior Foundation Finish Floor Fiber Reinforced Polymer Far Side Foot or Feet | NGR. Q. W. XP. XT. DN. N. -R. RP S. |
| Simi Slab On Gra Specificati Square Square Fe Square Inch(e Spruce-Pine- Stainless Ste Standa Stiffer Ste Structu Substitu Symmetric | SPEC. SQ. SQ. FT. SQ. IN. SPF S.S. STD. STIFF. STL. STR. SUB. SYM. T/ T&B | Equal Each Way Expansion Exterior Foundation Finish Floor Fiber Reinforced Polymer Far Side | NGR. Q. W. XP. XT. DN. N. -R. RP S. |
| Simi Slab On Gra Specificati Square Square Fe Square Inch(e Spruce-Pine- Stainless Ste Standa Stiffer Ste Structu Substitu Symmetric Top Top and Botto | SPEC. SQ. SQ. FT. SQ. IN. SPF S.S. STD. STIFF. STL. STR. SUB. SYM. T/ T&B T&G | Equal Each Way Expansion Exterior Foundation Finish Floor Fiber Reinforced Polymer Far Side Foot or Feet Footing | NGR. Q. W. XP. XT. ON. N. -R. RP S. F. |
| Simi Slab On Gra Specificati Square Square Fe Square Inch(e Spruce-Pine- Stainless Ste Standa Stiffer Ste Structu Substitu Symmetric Top Top and Botto Tongue & Groo | SPEC. SQ. SQ. FT. SQ. IN. SPF S.S. STD. STIFF. STL. STR. SUB. SYM. T/ T&B T&G TEMP. | Equal Each Way Expansion Exterior Foundation Finish Floor Fiber Reinforced Polymer Far Side Foot or Feet Footing Gauge | NGR. Q. W. XP. XT. ON. N. -R. RP S. F. |
| Simi Slab On Gra Specificati Square Square Fe Square Inch(e Spruce-Pine- Stainless Ste Standa Stiffer Ste Structu Substitu Symmetric Top Top and Botto Tongue & Groo Tempora Throu | SPEC. SQ. SQ. FT. SQ. IN. SPF S.S. STD. STIFF. STL. STR. SUB. SYM. T/ T&B T&G TEMP. THRU | Equal Each Way Expansion Exterior Foundation Finish Floor Fiber Reinforced Polymer Far Side Foot or Feet Footing Gauge Galvanized | NGR. Q. W. XP. XT. ON. N. -R. RP S. T. TG. |
| Simi Slab On Gra Specificati Square Square Fe Square Inch(e Spruce-Pine- Stainless Ste Standa Stiffer Ste Structu Substitu Symmetric Top Top and Botto Tongue & Groot Tempora Throu Top of Concre | SPEC. SQ. SQ. FT. SQ. IN. SPF S.S. STD. STIFF. STL. STR. SUB. SYM. T/ T&B T&G TEMP. THRU T.O.C. | Equal Each Way Expansion Exterior Foundation Finish Floor Fiber Reinforced Polymer Far Side Foot or Feet Footing Gauge Galvanized Glue Laminated | NGR. Q. W. XP. XT. ON. N. -R. RP S. T. TG. ALV. L |
| Simi Slab On Gra Specificati Square Square Fe Square Inch(e Spruce-Pine- Stainless Ste Standa Stiffer Ste Structu Substitu Symmetric Top Top and Botto Tongue & Groot Tempora Throu Top of Concre Top of Ste | SPEC. SQ. SQ. FT. SQ. IN. SPF S.S. STD. STIFF. STL. STR. SUB. SYM. T/ T&B T&G TEMP. THRU T.O.C. T.O.S. | Equal Each Way Expansion Exterior Foundation Finish Floor Fiber Reinforced Polymer Far Side Foot or Feet Footing Gauge Galvanized | NGR. Q. W. XP. XT. ON. N. -R. RP S. T. TG. ALV. L |
| Simi Slab On Gra Specificati Square Square Fe Square Inch(e Spruce-Pine- Stainless Ste Standa Stiffer Ste Structu Substitu Symmetric Top Top and Botto Tongue & Groot Tempora Throu Top of Concre Top of Ste Top of W | SPEC. SQ. SQ. FT. SQ. IN. SPF S.S. STD. STIFF. STL. STR. SUB. SYM. T/ T&B T&G TEMP. THRU T.O.C. T.O.S. T.O.W. | Equal Each Way Expansion Exterior Foundation Finish Floor Fiber Reinforced Polymer Far Side Foot or Feet Footing Gauge Galvanized Glue Laminated Gypsum Wall Board | NGR. Q. W. XP. XT. ON. R. RP S. T. TG. ALV. L |
| Simi Slab On Gra Specificati Square Square Fe Square Inch(e Spruce-Pine- Stainless Ste Standa Stiffer Ste Structu Substitu Symmetric Top Top and Botto Tongue & Groot Tempora Throu Top of Concre Top of Ste Top of W Transver | SPEC. SQ. SQ. FT. SQ. IN. SPF S.S. STD. STIFF. STL. STR. SUB. SYM. T/ T&B T&G TEMP. THRU T.O.C. T.O.S. T.O.W. TRANS. | Equal Each Way Expansion Exterior Foundation Finish Floor Fiber Reinforced Polymer Far Side Foot or Feet Footing Gauge Galvanized Glue Laminated Gypsum Wall Board Hot Dipped Galvanized | NGR. Q. W. XP. XT. DN. N. -R. RP S. T. G. ALV. L WB |
| Simi Slab On Gra Specificati Square Square Fe Square Inch(e Spruce-Pine- Stainless Ste Standa Stiffer Ste Structu Substitu Symmetric Top Top and Botto Tongue & Groot Tempora Throu Top of Concre Top of Ste Top of W Transver Tube Ste | SPEC. SQ. SQ. FT. SQ. IN. SPF S.S. STD. STIFF. STL. STR. SUB. SYM. T/ T&B T&G TEMP. THRU T.O.C. T.O.S. T.O.W. TRANS. TS | Equal Each Way Expansion Exterior Foundation Finish Floor Fiber Reinforced Polymer Far Side Foot or Feet Footing Gauge Galvanized Glue Laminated Gypsum Wall Board Hot Dipped Galvanized Hem Fir | NGR. Q. W. XP. XT. ON. N. LR. RP S. T. TG. ALV. L WB |
| Simi Slab On Gra Specificati Square Square Fe Square Inch(e Spruce-Pine- Stainless Ste Standa Stiffer Ste Structu Substitu Symmetric Top Top and Botto Tongue & Groot Tempora Throu Top of Concre Top of Ste Top of W Transver | SPEC. SQ. SQ. FT. SQ. IN. SPF S.S. STD. STIFF. STL. STR. SUB. SYM. T/ T&B T&G TEMP. THRU T.O.C. T.O.S. T.O.W. TRANS. | Equal Each Way Expansion Exterior Foundation Finish Floor Fiber Reinforced Polymer Far Side Foot or Feet Footing Gauge Galvanized Glue Laminated Gypsum Wall Board Hot Dipped Galvanized Hem Fir Hanger | NGR. Q. W. XP. XT. DN. N. -R. RP S. T. GG. ALV. L WB DG F GR. |
| Simi Slab On Gra Specificati Square Square Fe Square Inch(e Spruce-Pine- Stainless Ste Standa Stiffer Ste Structu Substitu Symmetric Top Top and Botto Tongue & Groot Tempora Throu Top of Concre Top of Ste Top of W Transver Tube Ste | SPEC. SQ. SQ. FT. SQ. IN. SPF S.S. STD. STIFF. STL. STR. SUB. SYM. T/ T&B T&G TEMP. THRU T.O.C. T.O.S. T.O.W. TRANS. TS TYP. | Equal Each Way Expansion Exterior Foundation Finish Floor Fiber Reinforced Polymer Far Side Foot or Feet Footing Gauge Galvanized Glue Laminated Gypsum Wall Board Hot Dipped Galvanized Hem Fir Hanger Horizontal | NGR. Q. W. KP. KT. DN. N. -R. S. F. FG. ALV. L WB DG F GR. DRIZ. |
| Simi Slab On Gra Specificati Square Square Fe Square Inch(e Spruce-Pine- Stainless Ste Standa Stiffer Ste Structu Substitu Symmetric Top Top and Botto Tongue & Groot Tempora Throu Top of Concre Top of Ste Top of W Transver Tube Ste | SPEC. SQ. SQ. FT. SQ. IN. SPF S.S. STD. STIFF. STL. STR. SUB. SYM. T/ T&B T&G TEMP. THRU T.O.C. T.O.S. T.O.W. TRANS. TS | Equal Each Way Expansion Exterior Foundation Finish Floor Fiber Reinforced Polymer Far Side Foot or Feet Footing Gauge Galvanized Glue Laminated Gypsum Wall Board Hot Dipped Galvanized Hem Fir Hanger Horizontal Hollow Structural Section | NGR. Q. W. XP. XT. ON. R. RP S. T. G. ALV. L WB DG F GR. ORIZ. SS |
| Simi Slab On Gra Specificati Square Square Fe Square Inch(e Spruce-Pine- Stainless Ste Standa Stiffer Ste Structu Substitu Symmetric Top Top and Botto Tongue & Groot Tempora Throu Top of Concre Top of Ste Top of Ste Top of W Transver Tube Ste Typic | SPEC. SQ. SQ. FT. SQ. IN. SPF S.S. STD. STIFF. STL. STR. SUB. SYM. T/ T&B T&G TEMP. THRU T.O.C. T.O.S. T.O.W. TRANS. TS TYP. U.O.N. | Equal Each Way Expansion Exterior Foundation Finish Floor Fiber Reinforced Polymer Far Side Foot or Feet Footing Gauge Galvanized Glue Laminated Gypsum Wall Board Hot Dipped Galvanized Hem Fir Hanger Horizontal | NGR. Q. W. XP. XT. ON. R. RP S. T. G. ALV. L WB DG F GR. ORIZ. SS |
| Simi Slab On Gra Specificati Square Square Fe Square Inche Spruce-Pine- Stainless Ste Standa Stiffer Ste Structu Substitu Symmetric Top Top and Botto Tongue & Groot Tempora Throu Top of Concre Top of Ste Top of Ste Top of W Transver Tube Ste Typic Unless Otherwise Not | SPEC. SQ. SQ. FT. SQ. IN. SPF S.S. STD. STIFF. STL. STR. SUB. SYM. T/ T&B T&G TEMP. THRU T.O.C. T.O.S. T.O.W. TRANS. TS TYP. U.O.N. VERT. | Equal Each Way Expansion Exterior Foundation Finish Floor Fiber Reinforced Polymer Far Side Foot or Feet Footing Gauge Galvanized Glue Laminated Gypsum Wall Board Hot Dipped Galvanized Hem Fir Hanger Horizontal Hollow Structural Section Height | NGR. Q. W. XP. XT. ON. R. RP S. T. A. ALV. L WB DG F GR. ORIZ. SS T. |
| Simi Slab On Gra Specificati Square Square Fe Square Inch(e Spruce-Pine- Stainless Ste Standa Stiffer Ste Structu Substitu Symmetric Top Top and Botto Tongue & Groot Tempora Throu Top of Concre Top of Ste Top of Ste Top of W Transver Tube Ste Typic | SPEC. SQ. SQ. FT. SQ. IN. SPF S.S. STD. STIFF. STL. STR. SUB. SYM. T/ T&B T&G TEMP. THRU T.O.C. T.O.S. T.O.W. TRANS. TS TYP. U.O.N. | Equal Each Way Expansion Exterior Foundation Finish Floor Fiber Reinforced Polymer Far Side Foot or Feet Footing Gauge Galvanized Glue Laminated Gypsum Wall Board Hot Dipped Galvanized Hem Fir Hanger Horizontal Hollow Structural Section Height Inside Diameter | NGR. Q. W. XP. XT. DN. IN. LR. TG. A. ALV. L WB DG F GR. ORIZ. SS T. |
| Simi Slab On Gra Specificati Square Square Fe Square Inch(e Spruce-Pine- Stainless Ste Standa Stiffer Ste Structu Substitu Symmetric Top Top and Botto Tongue & Groot Tempora Throu Top of Concre Top of Ste Top of W Transver Tube Ste Typic Unless Otherwise Note Vertic | SPEC. SQ. SQ. FT. SQ. IN. SPF S.S. STD. STIFF. STL. STR. SUB. SYM. T/ T&B T&G TEMP. THRU T.O.C. T.O.S. T.O.W. TRANS. TS TYP. U.O.N. VERT. VIF | Equal Each Way Expansion Exterior Foundation Finish Floor Fiber Reinforced Polymer Far Side Foot or Feet Footing Gauge Galvanized Glue Laminated Gypsum Wall Board Hot Dipped Galvanized Hem Fir Hanger Horizontal Hollow Structural Section Height Inside Diameter Inside Face | NGR. Q. W. XP. XT. ON. R. RP S. T. A. ALV. L WB DG F GRIZ. SS T. O. E. |
| Simi Slab On Gra Specificati Square Square Fe Square Inch(e Spruce-Pine- Stainless Ste Standa Stiffer Ste Structu Substitu Symmetric Top Top and Botto Tongue & Groot Tempora Throu Top of Concre Top of Ste Top of W Transver Tube Ste Typic Unless Otherwise Not Vertic Verify in Fie | SPEC. SQ. SQ. FT. SQ. IN. SPF S.S. STD. STIFF. STL. STR. SUB. SYM. T/ T&B T&G TEMP. THRU T.O.C. T.O.S. T.O.W. TRANS. TS TYP. U.O.N. VERT. VIF W. | Equal Each Way Expansion Exterior Foundation Finish Floor Fiber Reinforced Polymer Far Side Foot or Feet Footing Gauge Galvanized Glue Laminated Gypsum Wall Board Hot Dipped Galvanized Hem Fir Hanger Horizontal Hollow Structural Section Height Inside Diameter Inside Face Inch | NGR. Q. W. XP. XT. DN. R. RP S. T. A. ALV. L WB DG F GR. ORIZ. SS T. D. E. |
| Simi Slab On Gra Specificati Square Square Fe Square Inch(e Spruce-Pine- Stainless Ste Standa Stiffer Ste Structu Substitu Symmetric Top Top and Botto Tongue & Groot Tempora Throu Top of Concre Top of Ste Top of W Transver Tube Ste Typic Unless Otherwise Not Vertic Verify in Fie | SPEC. SQ. SQ. FT. SQ. IN. SPF S.S. STD. STIFF. STL. STR. SUB. SYM. T/ T&B T&G TEMP. THRU T.O.C. T.O.S. T.O.W. TRANS. TS TYP. U.O.N. VERT. VIF W. W/ or w/ | Equal Each Way Expansion Exterior Foundation Finish Floor Fiber Reinforced Polymer Far Side Foot or Feet Footing Gauge Galvanized Glue Laminated Gypsum Wall Board Hot Dipped Galvanized Hem Fir Hanger Horizontal Hollow Structural Section Height Inside Diameter Inside Face Inch Information | NGR. Q. W. XP. XT. DN. R. RP S. T. G. ALV. L WB DG F GR. ORIZ. SS T. D. E. I. IFO. |
| Simi Slab On Gra Specificati Square Square Fe Square Inch(e Spruce-Pine- Stainless Ste Standa Stiffer Ste Structu Substitu Symmetric Top Top and Botte Tongue & Groot Tempora Throu Top of Concre Top of Ste Top of Ste Top of W Transver Tube Ste Typic Unless Otherwise Not Vertic Verify in Fie | SPEC. SQ. SQ. FT. SQ. IN. SPF S.S. STD. STIFF. STL. STR. SUB. SYM. T/ T&B T&G TEMP. THRU T.O.C. T.O.S. T.O.W. TRANS. TS TYP. U.O.N. VERT. VIF W. W/ or w/ W.H.S. | Equal Each Way Expansion Exterior Foundation Finish Floor Fiber Reinforced Polymer Far Side Foot or Feet Footing Gauge Galvanized Glue Laminated Gypsum Wall Board Hot Dipped Galvanized Hem Fir Hanger Horizontal Hollow Structural Section Height Inside Diameter Inside Face Inch | NGR. Q. W. XP. XT. DN. R. RP S. T. G. ALV. L WB DG F GRIZ. SS T. D. I. |
| Simi Slab On Gra Specificati Square Square Fe Square Inch(e Spruce-Pine- Stainless Ste Standa Stiffer Ste Structu Substitu Symmetric Top Top and Botto Tongue & Groot Tempora Throu Top of Concre Top of Ste Top of W Transver Tube Ste Typic Unless Otherwise Not Vertic Verify in Fie We Welded Headed Ste Withou | SPEC. SQ. SQ. FT. SQ. IN. SPF S.S. STD. STIFF. STL. STR. SUB. SYM. T/ T&B T&G TEMP. THRU T.O.C. T.O.S. T.O.W. TRANS. TS TYP. U.O.N. VERT. VIF W. W/ or w/ W.H.S. W/O | Equal Each Way Expansion Exterior Foundation Finish Floor Fiber Reinforced Polymer Far Side Foot or Feet Footing Gauge Galvanized Glue Laminated Gypsum Wall Board Hot Dipped Galvanized Hem Fir Hanger Horizontal Hollow Structural Section Height Inside Diameter Inside Face Inch Information Interior | NGR. Q. W. XP. XT. DN. R. RP. S. T. G. ALV. L WB DG GRIZ. SS T. D. E. I. |
| Simi Slab On Gra Specificati Square Square Fe Square Inche Spruce-Pine- Stainless Ste Standa Stiffer Ste Structu Substitu Symmetric Top Top and Botto Tongue & Groot Tempora Throu Top of Concre Top of Ste Top of Ste Top of W Transver Tube Ste Typic Unless Otherwise Note Vertic Verify in Fiel We W Welded Headed Ste Withol | SPEC. SQ. SQ. FT. SQ. IN. SPF S.S. STD. STIFF. STL. STR. SUB. SYM. T/ T&B T&G TEMP. THRU T.O.C. T.O.S. T.O.W. TRANS. TS TYP. U.O.N. VERT. VIF W. W/ or w/ W.H.S. W/O WP | Equal Each Way Expansion Exterior Foundation Finish Floor Fiber Reinforced Polymer Far Side Foot or Feet Footing Gauge Galvanized Glue Laminated Gypsum Wall Board Hot Dipped Galvanized Hem Fir Hanger Horizontal Hollow Structural Section Height Inside Diameter Inside Face Inch Information | NGR. Q. W. XP. XT. DN. R. RP S. T. G. ALV. L WB DG F GR. ORIZ. SS T. D. E. I. |
| Simi Slab On Gra Specificati Square Square Fe Square Inch(e Spruce-Pine- Stainless Ste Standa Stiffer Ste Structu Substitu Symmetric Top Top and Botto Tongue & Groot Tempora Throu Top of Concre Top of Ste Top of W Transver Tube Ste Typic Unless Otherwise Not Vertic Verify in Fie We Welded Headed Ste Withou | SPEC. SQ. SQ. FT. SQ. IN. SPF S.S. STD. STIFF. STL. STR. SUB. SYM. T/ T&B T&G TEMP. THRU T.O.C. T.O.S. T.O.W. TRANS. TS TYP. U.O.N. VERT. VIF W. W/ or w/ W.H.S. W/O | Equal Each Way Expansion Exterior Foundation Finish Floor Fiber Reinforced Polymer Far Side Foot or Feet Footing Gauge Galvanized Glue Laminated Gypsum Wall Board Hot Dipped Galvanized Hem Fir Hanger Horizontal Hollow Structural Section Height Inside Diameter Inside Face Inch Information Interior | NGR. Q. W. XP. XT. DN. R. RP S. T. G. ALV. L WB DG F GR. ORIZ. SS T. D. E. I. |
| Simi Slab On Gra Specificati Square Square Fe Square Inche Spruce-Pine- Stainless Ste Standa Stiffer Ste Structu Substitu Symmetric Top Top and Botto Tongue & Groot Tempora Throu Top of Concre Top of Ste Top of Ste Top of W Transver Tube Ste Typic Unless Otherwise Note Vertic Verify in Fiel We W Welded Headed Ste Withol | SPEC. SQ. SQ. FT. SQ. IN. SPF S.S. STD. STIFF. STL. STR. SUB. SYM. T/ T&B T&G TEMP. THRU T.O.C. T.O.S. T.O.W. TRANS. TS TYP. U.O.N. VERT. VIF W. W/ or w/ W.H.S. W/O WP | Equal Each Way Expansion Exterior Foundation Finish Floor Fiber Reinforced Polymer Far Side Foot or Feet Footing Gauge Galvanized Glue Laminated Gypsum Wall Board Hot Dipped Galvanized Hem Fir Hanger Horizontal Hollow Structural Section Height Inside Diameter Inside Face Inch Information Interior | NGR. Q. W. XP. XT. DN. IR. RP. S. T. G. ALV. L WB DG F GR. ORIZ. SS T. D. E. I. |
| Simi Slab On Gra Specificati Square Square Fe Square Inch(e Spruce-Pine- Stainless Ste Standa Stiffer Ste Structu Substitu Symmetric Top Top and Botto Tongue & Groot Tempora Throu Top of Concre Top of Ste Top of W Transver Tube Ste Typic Unless Otherwise Not Vertify in Fie We Welded Headed Ste Withou Work Po Welded Threaded Ste Welded Threaded Ste | SPEC. SQ. SQ. FT. SQ. IN. SPF S.S. STD. STIFF. STL. STR. SUB. SYM. T/ T&B T&G TEMP. THRU T.O.C. T.O.S. T.O.W. TRANS. TS TYP. U.O.N. VERT. VIF W. W/ or w/ W.H.S. W/O WP W.T.S. | Equal Each Way Expansion Exterior Foundation Finish Floor Fiber Reinforced Polymer Far Side Foot or Feet Footing Gauge Galvanized Glue Laminated Gypsum Wall Board Hot Dipped Galvanized Hem Fir Hanger Horizontal Hollow Structural Section Height Inside Diameter Inside Face Inch Information Interior Joint | NGR. Q. W. XP. XT. DN. R. RP. S. T. G. ALV. WB DG F GRIZ. SS T. D. E. I. |
| Simi Slab On Gra Specificati Square Square Fe Square Inch(e Spruce-Pine- Stainless Ste Standa Stiffer Ste Structu Substitu Symmetric Top Top and Botto Tongue & Groot Tempora Throu Top of Concre Top of Ste Top of W Transver Tube Ste Typic Unless Otherwise Not Vertify in Fie We Welded Headed Ste Withou Work Po Welded Threaded Ste Welded Threaded Ste | SPEC. SQ. SQ. FT. SQ. IN. SPF S.S. STD. STIFF. STL. STR. SUB. SYM. T/ T&B T&G TEMP. THRU T.O.C. T.O.S. T.O.W. TRANS. TS TYP. U.O.N. VERT. VIF W. W/ or w/ W.H.S. W/O WP W.T.S. | Equal Each Way Expansion Exterior Foundation Finish Floor Fiber Reinforced Polymer Far Side Foot or Feet Footing Gauge Galvanized Glue Laminated Gypsum Wall Board Hot Dipped Galvanized Hem Fir Hanger Horizontal Hollow Structural Section Height Inside Diameter Inside Face Inch Information Interior Joint Kips | MBED. NGR. QW. XP. XT. DN. LR. ST. TG. ALV. LWB DG FGRIZ. SS. T. D. SI. IFO. IT. SF. SI. |
| Simi Slab On Gra Specificati Square Square Fe Square Inch(e Spruce-Pine- Stainless Ste Standa Stiffer Ste Structu Substitu Symmetric Top Top and Botte Tongue & Groot Tempora Throu Top of Concre Top of Ste Top of W Transver Tube Ste Typic Unless Otherwise Not Vertic Verify in Fie We W Welded Headed St Witho Work Po Welded Threaded St Welded Wire Fab | SPEC. SQ. SQ. FT. SQ. IN. SPF S.S. STD. STIFF. STL. STR. SUB. SYM. T/ T&B T&G TEMP. THRU T.O.C. T.O.S. T.O.W. TRANS. TS TYP. U.O.N. VERT. VIF W. W/ or w/ W.H.S. W/O WP W.T.S. WWF | Equal Each Way Expansion Exterior Foundation Finish Floor Fiber Reinforced Polymer Far Side Foot or Feet Footing Gauge Galvanized Glue Laminated Gypsum Wall Board Hot Dipped Galvanized Hem Fir Hanger Horizontal Hollow Structural Section Height Inside Diameter Inside Face Inch Information Interior Joint Kips Kips per Square Foot | NGR. QW. XP. XT. DN. LR. ST. TG. A. ALV. L WB DG F GRIZ. SS T. D. I. I. I. SF |



DRAWN
BY:
TA
CHECKED
BY
MJH
APPROVED
BY:
11/17/2023

PROJECT INFORMATION:

WANG & YANG ADU

PROJECT ADDRESS:

6450 E MERCER WAY

MERCER ISLAND, WA 98040

SHEET NAME:

GENERAL

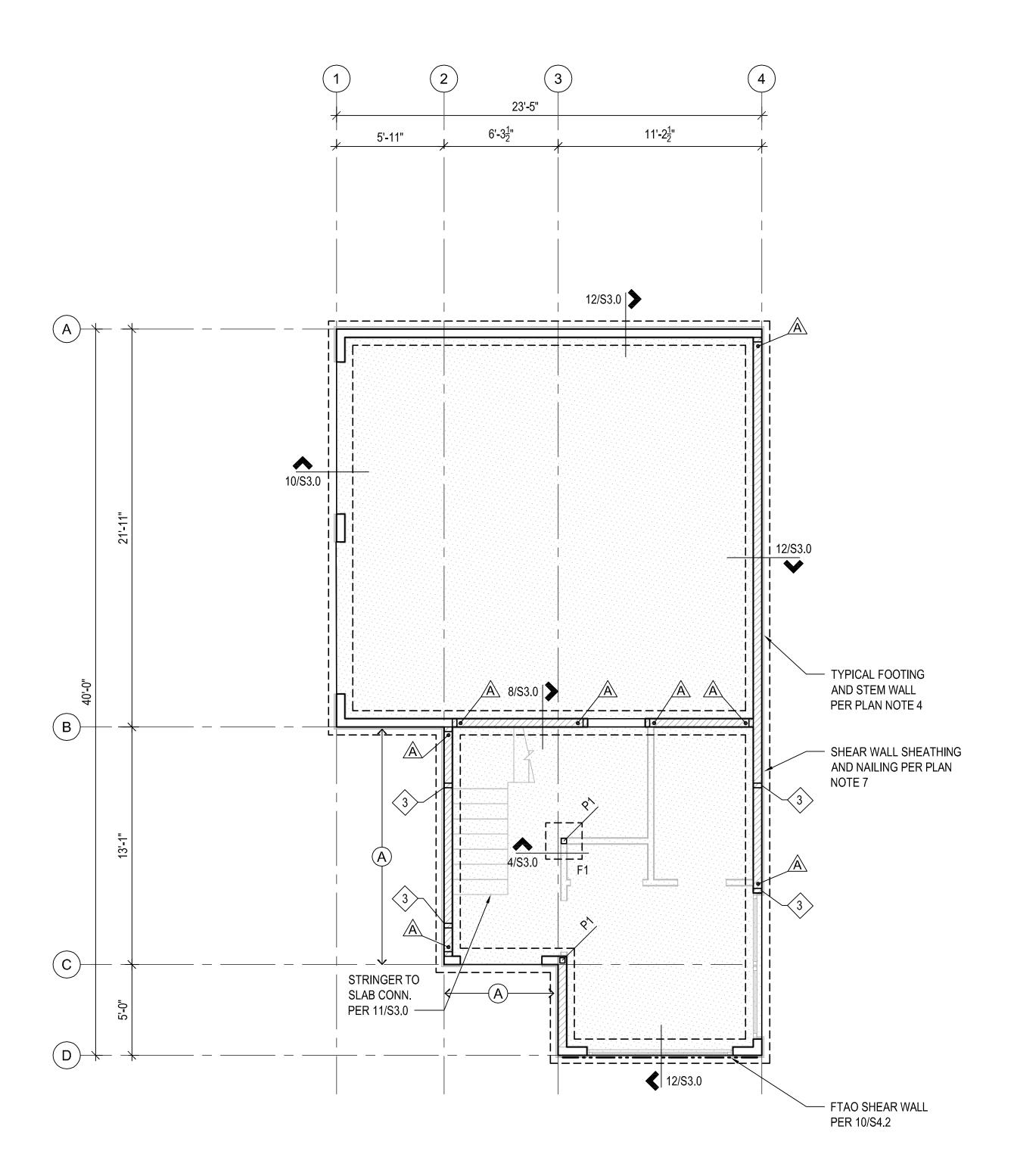
STRUCTURAL

NOTES

CURRENT REVISION

SHEET NUMBER:

S1.1





STUD WALL TYPE SCHEDULE A | 1¾ x5½ LSL (1.55E) STUDS @ 12" O.C.

| FOOTING SCHEDULE | | | | |
|------------------|-----------------------------------------------------------|--|--|--|
| MARK | SIZE | | | |
| F1 | 24" SQ. x 12" DEEP FOOTING w/ (3) #4 E.W. BOTTOM, TYP. | | | |

| POST | SCHEDULE |
|------|----------|
| MARK | SIZE |
| P1 | P/T 4x4 |

SEISMIC FORCE RESISTING SYSTEM LEGEND

SHEAR WALL TYPE 'X' PER SCHEDULE 8/S4.0 HOLDOWN TYPE 'X' PER SCHEDULE 12/S4.0

LEGEND

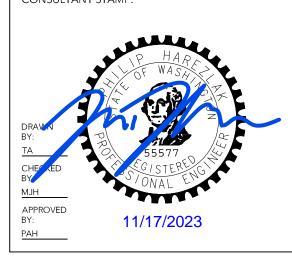
4" SLAB-ON-GRADE PER PLAN NOTE 5

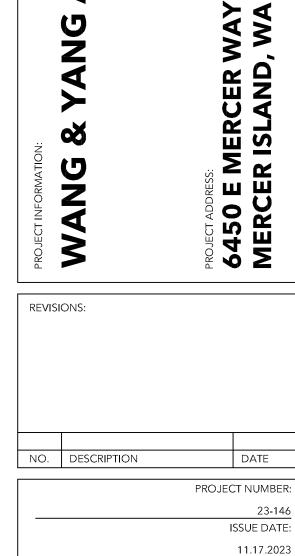
FOUNDATION & MAIN FLOOR FRAMING PLAN NOTES:

- 1. TOPS OF ALL EXTERIOR FOOTINGS ON THIS PLAN SHALL BE BURIED BELOW DENSE NATIVE MATERIAL, OR PREPARED AS SPECIFIED IN THE GEOTECHNICAL REPORT.
- 2. FINAL SITE GRADES TO BE DETERMINED BY THE CONTRACTOR. CONTRACTOR SHALL COORDINATE UNDERSLAB PIPING REQUIREMENTS AS SHOWN IN 7/S3.0.
- 3. POSTS AND STUD PACKS SHALL BE CONTINUOUS TO FOUNDATION. TYPICAL STUD WALLS SHALL BE FRAMED USING HEM-FIR #2 2x STUDS @ 16" O.C., U.O.N. POST LOADS FROM ABOVE TO BE BLOCKED PER 7/S4.1.
- 4. TYPICAL FOOTING TO BE 18"W x 8" DP. CONC. STRIP FTG. w/ (2) #4 CONT. BOTTOM AND #4 @ 16" O.C. TRANS. TYP. STEM WALL TO BE 8" STEM WALL w/ #4 @ 12" O.C. HORIZ. AND 16" O.C. VERT.
- 5. SLAB-ON-GRADE SHALL BE 4" THICK w/ WWF 6x6-W2.1xW2.1 MID-DEPTH OR #4 @ 16" O.C. E.W. MID-DEPTH, U.O.N. PROVIDE VAPOR BARRIER BELOW SLAB AS REQUIRED AND PER 2/S3.0. INSTALL CONSTRUCTION AND CONTROL JOINTS PER 2/S3.0.
- 6. ALL CONNECTIONS AND CONNECTORS IN CONTACT WITH PRESSURE-TREATED LUMBER TO BE HOT DIPPED GALVANIZED OR STAINLESS STEEL, PER GENERAL STRUCTURAL NOTES.
- 7. ALL EXTERIOR WALLS TO BE SHEATHED AND NAILED PER SW-6, U.O.N.



E: phil@harezlakengineering.com CONSULTANT STAMP:





98040

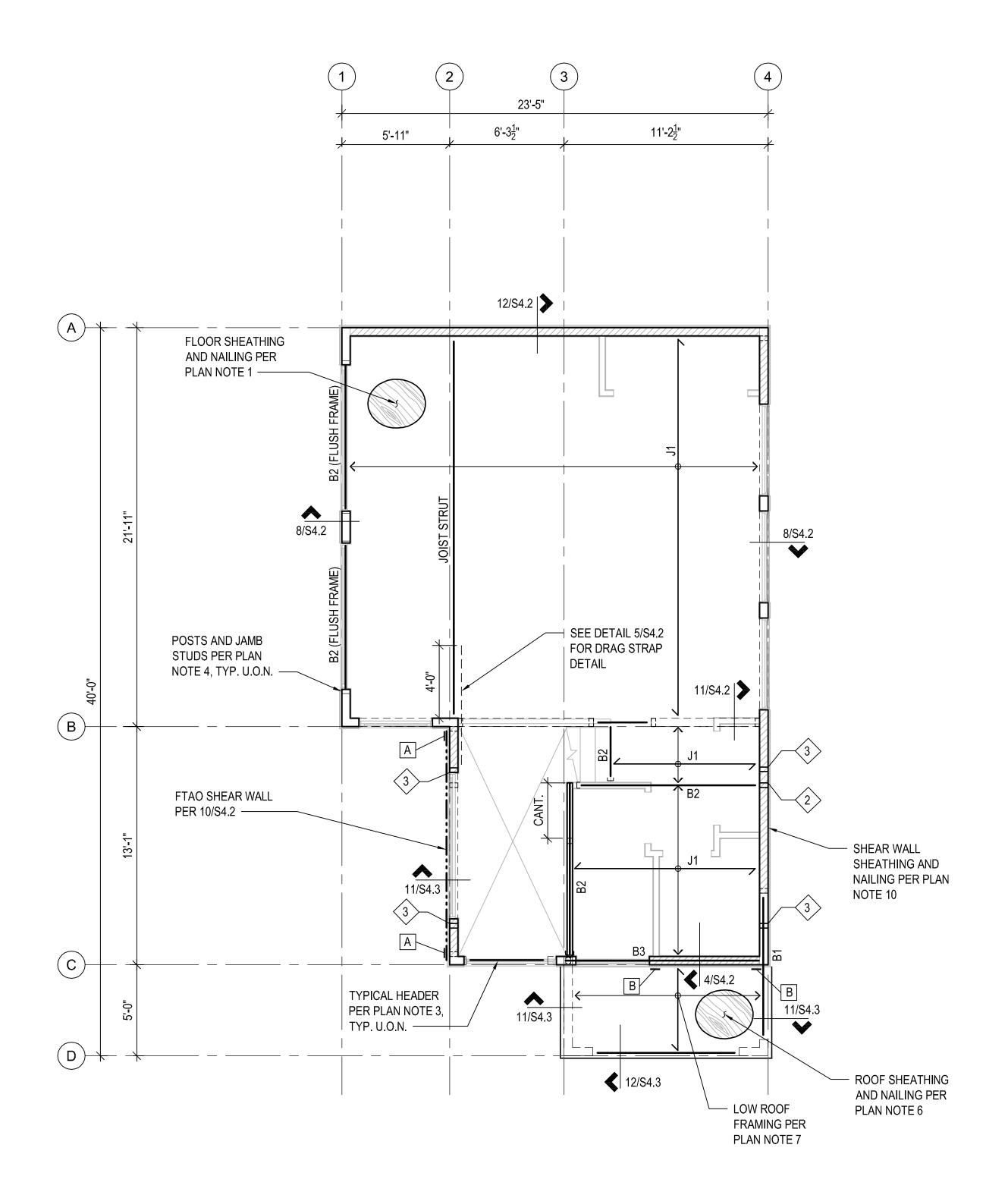
SHEET NAME:

FOUNDATION PLAN

CURRENT REVISION:

SHEET NUMBER:

S2.0





| | JOIST & BEAM SCHEDULE | | | | | |
|------|------------------------|----------|--|--|--|--|
| MARK | SIZE | HANGER | | | | |
| J1 | 14" TJI 110 @ 16" O.C. | PER MFR. | | | | |
| B1 | 3½ x 9⅓ LVL | N/A | | | | |
| B2 | 3½ x 14 LVL | HUS412 | | | | |
| В3 | 51/4 x 14 LVL | N/A | | | | |

SEISMIC FORCE RESISTING SYSTEM LEGEND

SHEAR WALL TYPE 'X' PER SCHEDULE 8/S4.0

FRAMING MEMBER NAILED AS STRUT PER PLAN NOTE 1

STRAP TYPE HOLDOWN PER SCHEDULE 10/S4.0

EXTENT OF SHEAR WALL SHEATHING

LEGEND

STRUT

SPAN DIRECTION OF FRAMING MEMBERS

(SEE PLAN NOTE 2)

STRUCTURAL WALL BELOW

POST BELOW

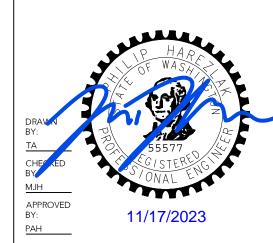
NUMBER OF BUILT-UP STUDS

FLOOR FRAMING PLAN NOTES:

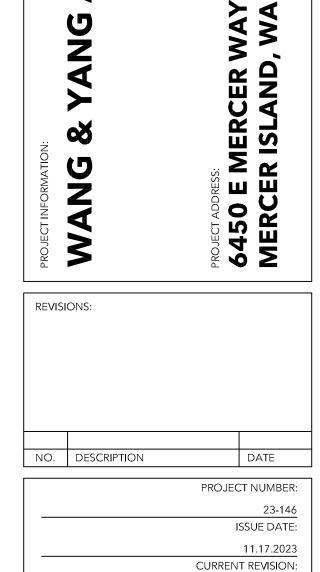
- 1. FLOOR SYSTEM SHALL CONSIST OF ²³/₃₂" PERFORMANCE CATEGORY, APA RATED SHEATHING, ⁴⁸/₂₄, EXPOSURE 1, NOMINAL 4'x8' (T&G OR SQUARE EDGE) PERMANENT OUTDOOR SHEATHING GRADE SHALL BE "EXTERIOR". NAIL SHEATHING AT ALL FRAMED PANEL EDGES, DIAPHRAGM BOUNDARIES, BLOCKING AND EXTERIOR SHEAR WALLS BELOW WITH 10d @ 6" O.C. PROVIDE $\frac{1}{8}$ " GAP AT ALL PANEL EDGE. FASTENER EDGE DISTANCE TO PANEL EDGE OF 3/8" MINIMUM. NAIL SHEATHING IN PANEL FIELD TO ALL STRUTS, STRUT BLOCKING, AND INTERIOR SHEAR WALLS BELOW WITH 10d @ 3" O.C. STAGGERED. NAIL SHEATHING AT ALL INTERMEDIATE SUPPORTS WITH 10d @ 12" O.C. GLUE SHEATHING AT ALL SUPPORTS WITH ADHESIVE CONFORMING TO ASTM SPECIFICATION D3498.
- 2. FLOOR JOISTS TO BE 14" TJI 110 @ 16" O.C. PROVIDE HANGERS PER MFR. AS REQUIRED. ALLOWABLE HOLES IN JOISTS PER JOIST SUPPLIER SPECIFICATIONS.
- 3. BEAMS OVER INTERIOR AND EXTERIOR OPENINGS SHALL BE 4x8 AND DROPPED BELOW STUD WALL TOP PLATES PER 10/S4.1, U.O.N.
- 4. POSTS OR JAMB STUDS AT END OF SUPPORTING BEAMS, GIRDER TRUSSES, OR BELOW POSTS SHALL BE (3) STUDS AT A MINIMUM. TYPICAL HEADER STUDS WILL BE (2) CRIPPLE STUDS AND (1) KING STUD.
- 5. OTHER TYPICAL FRAMING DETAILS SHOWN ON SHEET S4.1.
- 6. ROOF SYSTEM SHALL CONSIST OF $\frac{19}{32}$ " PERFORMANCE CATEGORY, APA RATED SHEATHING, ³²/₁₆, EXPOSURE 1, NOMINAL 4'x8' (T&G OR SQUARE EDGE). NAIL SHEATHING AT ALL FRAMED PANEL EDGES, DIAPHRAGM BOUNDARIES, STRUTS, BLOCKING, AND SHEAR WALLS BELOW w/ 10d @ 6" O.C. PROVIDE $\frac{1}{8}$ " GAP AT ALL PANEL EDGE. FASTENER EDGE DISTANCE TO PANEL EDGE OF 3/8" MINIMUM. NAIL SHEATHING AT ALL INTERMEDIATE SUPPORTS WITH 10d @ 12" O.C. U.O.N. INSTALL PANEL EDGE CLIPS PER GENERAL STRUCTURAL NOTES AT ALL UNFRAMED, UNBLOCKED PANEL EDGES
- ROOF FRAMING SHALL BE CONNECTOR PLATE TRUSSES @ 24" O.C. TRUSS MANUFACTURER SHALL INSTALL ALL TEMPORARY AND PERMANENT TRUSS BOTTOM CHORD BRACING AND BRIDGING, RELATED CONNECTIONS, AND ATTACHMENT DETAILS. REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS & ARCHITECTURAL DRAWINGS FOR HEIGHTS AND CONFIGURATIONS. TRUSSES SHALL BE DESIGNED FOR TYPICAL TRUSS LOADING AS SHOWN IN THE GENERAL STRUCTURAL NOTES.
- 8. DO NOT SCALE DRAWINGS. REFER TO ARCH. DRAWINGS FOR ALL DIMENSIONS.
- 9. FOR ALL DUCTS, CHASES, AND PIPES, REFERENCE MECHANICAL, ELECTRICAL, AND PLUMBING
- 10. ALL EXTERIOR WALLS TO BE SHEATHED AND NAILED PER SW-6, U.O.N.



CONSULTANT STAMP:



Ko WANG

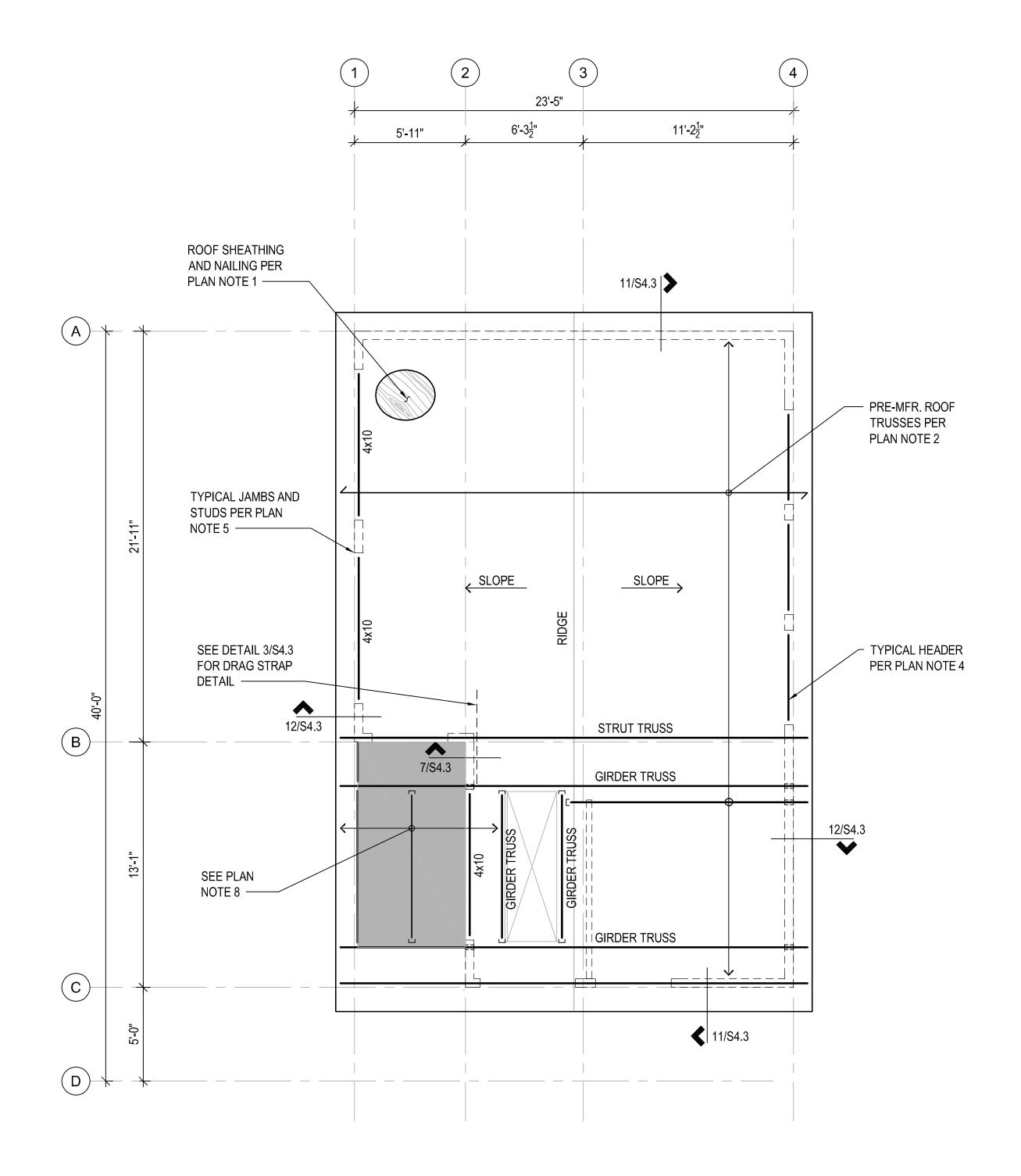


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SHEET NAME: **UPPER FLOOR** FRAMING PLAN

SHEET NUMBER:

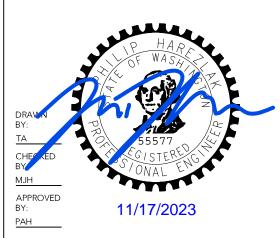
S2.1







CONSULTANT STAMP:



SEISMIC FORCE RESISTING SYSTEM LEGEND

STRUT FRAMING MEMBER NAILED AS STRUT PER PLAN NOTE 1

LEGEND

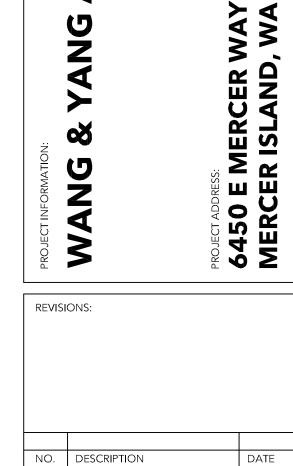
□□□□ STRUCTURAL WALL BELOW

SPAN DIRECTION OF FRAMING MEMBERS (SEE PLAN NOTE 2)

SEE PLAN NOTE 9

ROOF FRAMING PLAN NOTES:

- ROOF SYSTEM SHALL CONSIST OF 19/32" PERFORMANCE CATEGORY, APA RATED SHEATHING, 32/16, EXPOSURE 1, NOMINAL 4'x8' (T&G OR SQUARE EDGE). NAIL SHEATHING AT ALL FRAMED PANEL EDGES, DIAPHRAGM BOUNDARIES, STRUTS, BLOCKING, AND SHEAR WALLS BELOW w/ 10d @ 6" O.C. PROVIDE $\frac{1}{8}$ " GAP AT ALL PANEL EDGE. FASTENER EDGE DISTANCE TO PANEL EDGE OF $rac{3}{8}$ " MINIMUM. NAIL SHEATHING AT ALL INTERMEDIATE SUPPORTS WITH 10d @ 12" O.C. U.O.N. INSTALL PANEL EDGE CLIPS PER GENERAL STRUCTURAL NOTES AT ALL UNFRAMED, UNBLOCKED PANEL EDGES
- 2. ROOF FRAMING SHALL BE CONNECTOR PLATE TRUSSES @ 24" O.C. TRUSS MANUFACTURER SHALL INSTALL ALL TEMPORARY AND PERMANENT TRUSS BOTTOM CHORD BRACING AND BRIDGING, RELATED CONNECTIONS, AND ATTACHMENT DETAILS. REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS & ARCHITECTURAL DRAWINGS FOR HEIGHTS AND CONFIGURATIONS. TRUSSES SHALL BE DESIGNED FOR TYPICAL TRUSS LOADING AS SHOWN IN THE GENERAL STRUCTURAL NOTES.
- 3. CONNECTOR PLATE TRUSS SHOP DRAWINGS TO BE APPROVED BY HAREZLAK ENGINEERING PRIOR TO MANUFACTURING AND INSTALLATION.
- 4. ALL EXT. HEADERS TO BE 4x8 HF#2 UNLESS OTHERWISE NOTED, SEE 10/S4.1.
- 5. POST OR JAMB STUDS AT END OF SUPPORTING BEAMS, GIRDER TRUSSES, OR BELOW POSTS SHALL BE (3) STUDS AT A MINIMUM. TYPICAL HEADER STUDS WILL BE (2) CRIPPLE STUDS AND (1) KING STUD.
- 6. FLAT BLOCKING IS REQUIRED AT ALL UNFRAMED RIDGES, HIPS, AND VALLEYS, FOR SHEATHING CONNECTION.
- 7. NON-STRUCTURAL WALL CONNECTION TO TRUSS PER 4/S4.3.
- 8. 2x6 RAFTERS BETWEEN GIRDER TRUSSES @ 24" O.C. INSTALL RAFTERS TO TRUSS TOP CHORD w/ LUS26 HANGER. AT LOW END OF TRUSS PROFILE, INSTALL 2x6 CEILING JOISTS @ 24" O.C. w/ LUS HANGER TO TRUSS BOTTOM CHORD. TRUSS MFR. TO DESIGN FOR 2x6 TOP AND BOTTOM CHORD FOR GIRDER TRUSSES NOTED.
- 9. INSTALL 2x T&G DECKING OR $1\frac{9}{32}$ " PLYWOOD SHEATHING PER PLAN NOTE 1 TO UNDERSIDE OF TRUSS/2x FRAMING AT OVERHANG AS NOTED PER PLAN. COORDINATE WITH ARCH. ON FINAL ASSEMBLY.



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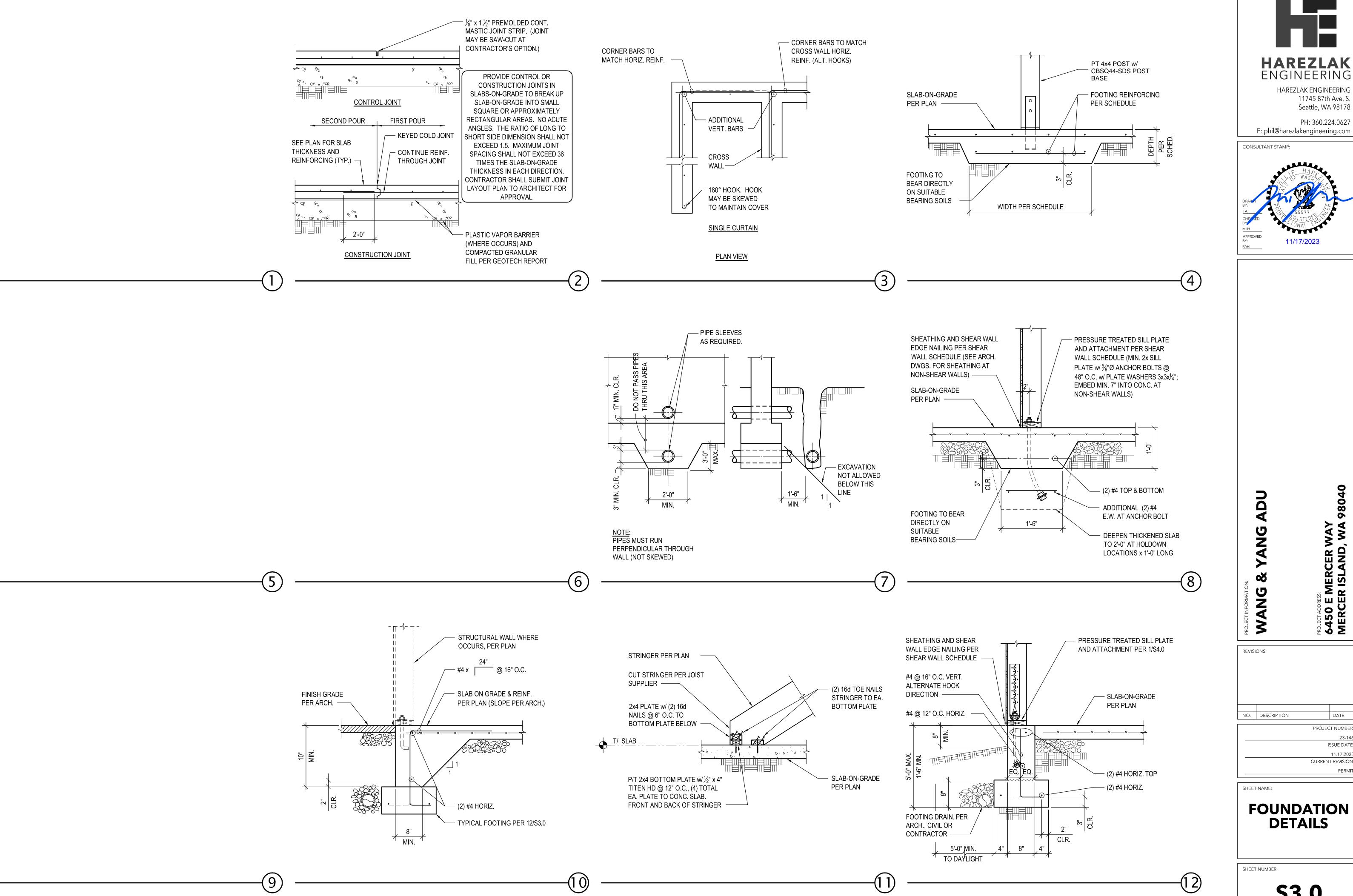
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| | | PROJEC | CT NUMBER: |
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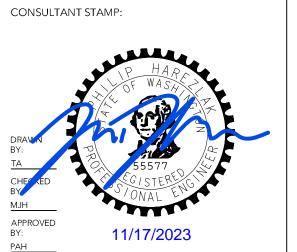
ROOF FRAMING PLAN

SHEET NUMBER:

S2.2





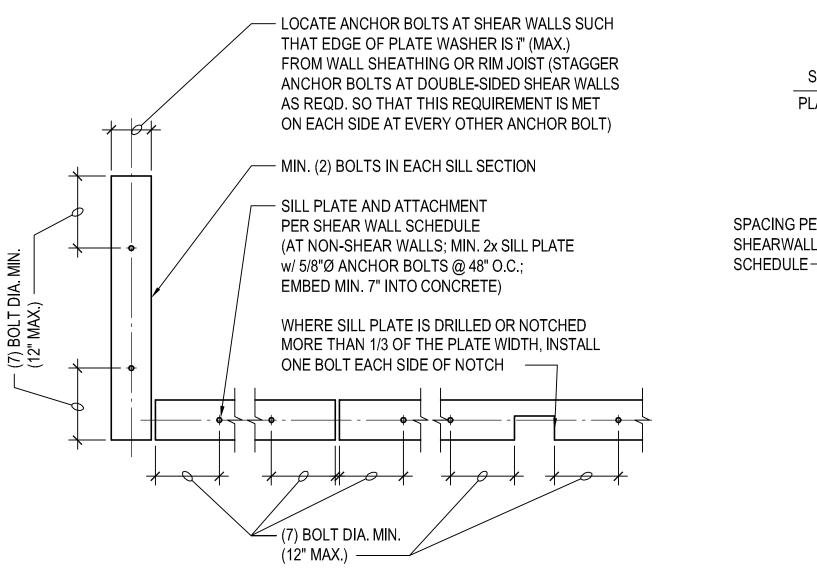


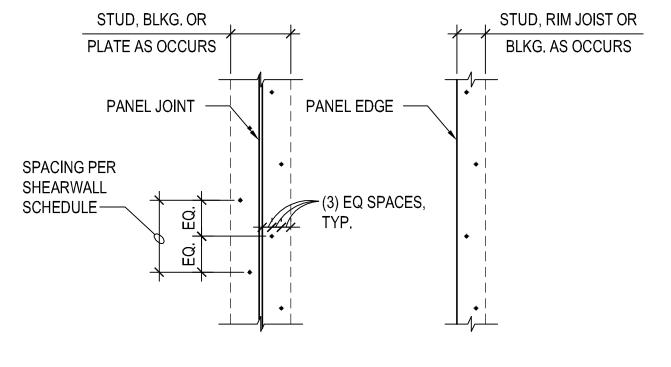
6450 E MERCER WAY
MERCER ISLAND, WA 98040 NO. DESCRIPTION DATE PROJECT NUMBER: ISSUE DATE: 11.17.2023 CURRENT REVISION:

FOUNDATION DETAILS

SHEET NUMBER:

S3.0





PANEL JOINT

NOTE: STAGGER EA. LINE OF NAILING (AT ALL PANEL EDGES) AS INDICATED

PANEL EDGE

| PANEL EDGE NAILING PER PLAN SHEATHING | 2'-0" MIN. PANEL DIMENSION CONTINUOUS PANEL ED | <u></u> | PANEL EDGE NAILING PER PLAN, SEE 2/S4.0 2x4 FLAT BLKG. DETAIL A DETAIL A DETAIL A |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FIELD NAILING AT INTERMEDIATE FRAMING MEMBERS PER PLAN SHEATHING JOINT, PANEL EDGE NAILING PER PLAN, TYP. WHERE FULLY BLOCKED DIAPHRAGMS ARE SPECIFIED ON THE PLANS, PROVIDE 2x4 FLAT BLKG. AT SHEATHING JOINTS, SEE DETAIL A | | 2'-0" MIN. PANEL TO PANEL LAP | PANEL EDGE NAILING PER PLAN 2x4 NAILER w/ 10d-F NAILS @ 6" O.C. JOIST BEYOND AT JOIST SPLICE WHERE OCCURS DETAIL B PANEL EDGE NAILING AT JOIST SPLICE NOTES: RUN LONG DIMENSION OF SHEATHING PANELS PERPENDICULAR TO FRAMING. |

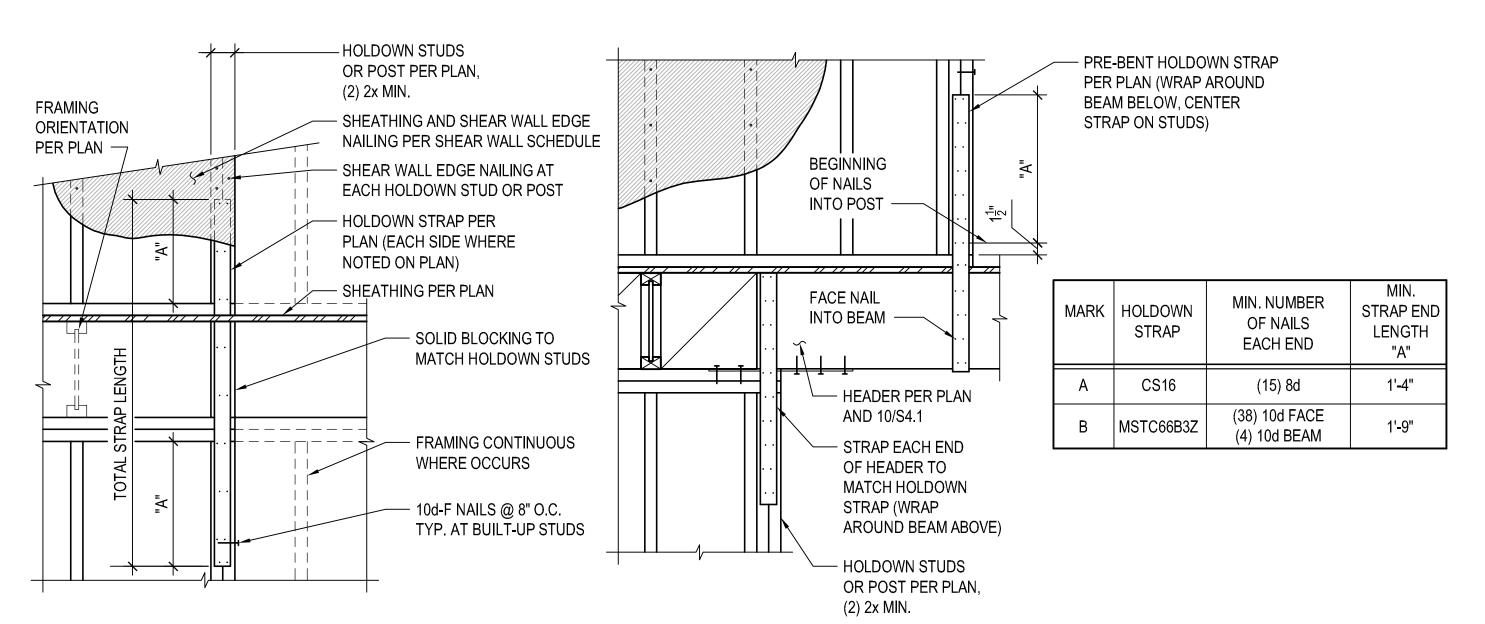
| | SHEAR WALL SCHEDULE (HEM-FIR, 10d NAILING) | | | | | | | | | |
|-----------------------|--------------------------------------------|--------------------------|--------------------------|--------------------------------------------------------------------|----------------|-----------------------------------|----------------|-----------------------------|------------------------|------|
| | | | | BOTTOM PLATE ATTACHMENT | | | TOP PLATE | EATTACHMENT | | |
| SHEAR WALL TYPE | SHEAR WALL SHEATHING | PANEL EDGE FRAMING | PANEL EDGE NAILING | 2x BOTTOM PLATE CONNECTION TO RIM JOIST OR BLOCKING BELOW | | BOLTING PLATE TO E BELOW 45 | | OR BLOCKING ON TO TOP PLATE | ALLOWABLE S CAPACIT | |
| | | 27 | | BELOW | 3x PLATE | 2x PLATE | INTERIOR WALL | EXTERIOR WALL | SEISMIC | WIND |
| SW-6 | 15/32" APA ONE-SIDE SHTG. | 2x | 0.148"Øx2½" @ 6" O.C. | 0.148"Øx3½" @ 6" O.C. | ½"Ø @ 48" O.C. | ½"Ø @ 48" O.C. | A35 @ 16" O.C. | LTP4 @ 16" O.C. | 288 | 405 |

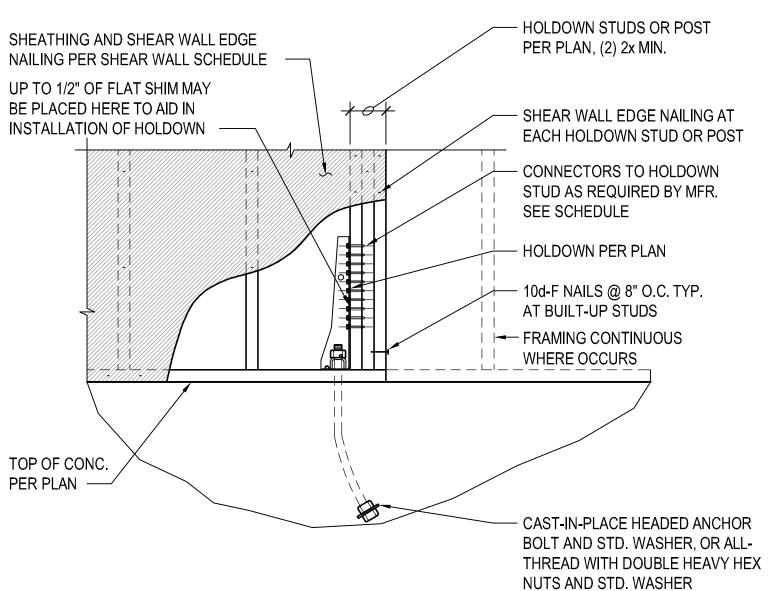
NOTES:

- 1 INSTALL PANEL SHEATHING EITHER HORIZONTALLY OR VERTICALLY FOR THE ENTIRE LENGTH OF THE WALL PER PLAN.
- 2 ALL INTERMEDIATE WALL STUDS SHALL BE PER PLAN. PROVIDE BACKING FRAMING AT ALL PANEL EDGES INCLUDING HORIZONTAL BLOCKING PER THE SCHEDULE.
- PROVIDE NAILING TO ALL PANEL EDGES, TOP & BOTTOM PLATES AND HORIZONTAL BLOCKING. PROVIDE THE SAME NAILING PATTERN TO EACH MULTIPLE STUD OF THE BUILT-UP HOLD DOWN POST. NAIL PANEL TO INTERMEDIATE FRAMING MEMBERS w/ 0.131" @ 12" 0.C.
- EMBED CAST-IN-PLACE 5/8"Ø ANCHOR BOLTS 7" MIN. (OR EMBED ADHESIVE ANCHOR BOLTS 5 1/2" IN (E) CONCRETE; SEE STRUCTURAL NOTES). PROVIDE PLATE WASHER 3" x 3" x 1/4" AT EACH ANCHOR BOLT. SILL PLATES SHALL BE TREATED PER GENERAL NOTES, AND SHALL BE 2x OR 3x PER THE SCHEDULE. SEE DETAIL 1/S4.0 FOR OTHER REQUIREMENTS.
- (5) PROVIDE HOT DIPPED GALVANIZED NAILS, BOLTS, OR METAL PLATES FOR ALL CONNECTORS IN CONTACT WITH PRESSURE TREATED MEMBERS.
- PROVIDE 0.131"Ø x 1-1/2" LONG NAILS FOR CLIPS DIRECTLY ATTACHED TO FRAMING MEMBERS; PROVIDE 0.131"Ø x 2-1/2" LONG NAILS FOR CLIPS INSTALLED OVER FLOOR OR WALL SHEATHING ON FRAMING MEMBERS. SEE 6/S4.1 FOR TOP PLATE SPLICE.
- 7 ALTERNATIVE TO 3x STUDS AND 3x HORIZ. BLOCKING IS (2) 2x STUDS/BLKG. NAILED TOGETHER WITH 0.148"Ø x 3" LONG NAILS WITH THE SAME SPACING AS THE PANEL EDGE NAILING PER THE SCHEDULE (STAGGER).
- 8 STAGGER NAILS PER 2/S4.0.

6

9 RIM JOIST/BLOCKING MINIMUM WIDTH OF 1 $\frac{3}{4}$ ". STAGGER NAILS PER 2/S4.0 WHERE SPACING IS LESS THAN 6" O.C.





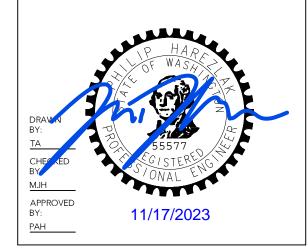
| MARK | HOLDOWN | ANCHOR BOLT * | CONNECTORS TO HOLDOWN STUDS | END STUDS / POST |
|------|---------|---------------|-----------------------------------|---------------------|
| Α | HDU5 | SB 5/8 x 24" | (14) SDS 1/4"x2 1/2" SCREWS | (2) 2x |

NOTE:
PROVIDE HOT DIPPED GALVANIZED NAILS, BOLTS,
OR METAL PLATES FOR ALL CONNECTORS IN
CONTACT WITH PRESSURE TREATED MEMBERS.

* CONTRACTOR OPTION TO PROVIDE THREADED ROD IN LIEU OF ANCHOR IN SCHEDULE. DIAMETER TO BE AS INDICATED, CONTACT HAREZLAK ENGINEERING FOR PROJECT SPECIFIC EMBED REQUIREMENTS.



E: phil@harezlakengineering.c



VANG & YANG ADU

REVISIONS:

NO. DESCRIPTION DATE

PROJECT NUMBER:

23-146
ISSUE DATE:
11.17.2023

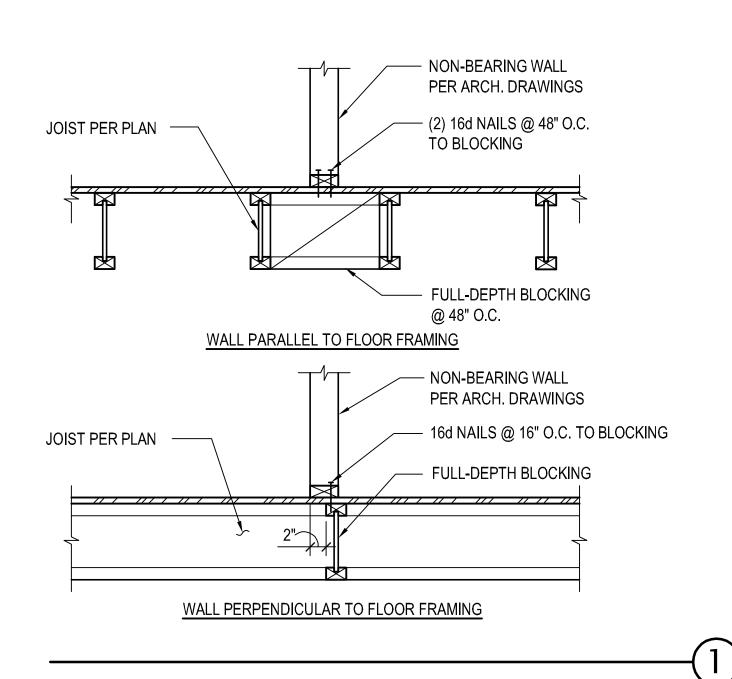
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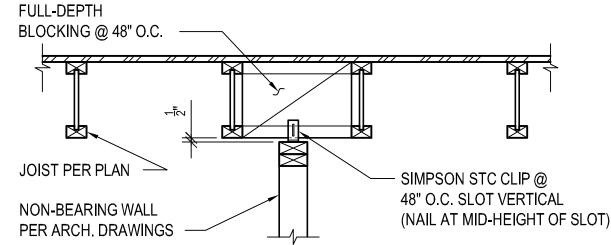
6450 E MERCER WAY MERCER ISLAND, WA

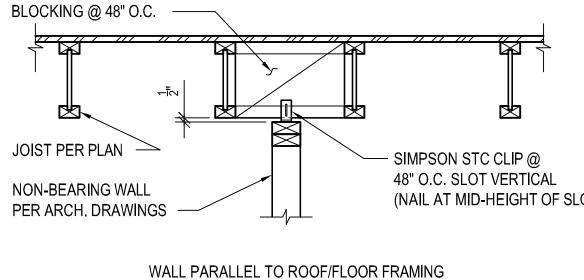
CURRENT REVISION:

FRAMING SCHEDULES

SHEET NUMBER:







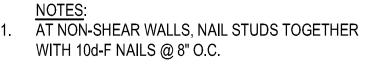
WALL PERPENDICULAR TO ROOF/FLOOR FRAMING

MSTA24 STRAP CENTERED ON BREAK IN TOP PLATE — (NAIL AT MID-HEIGHT OF SLOT)

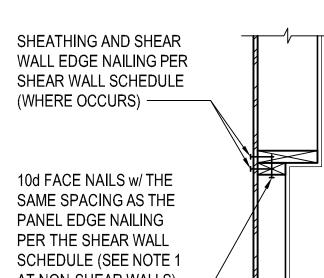
SIMPSON STC CLIP @

48" O.C. SLOT VERTICAL

(NAIL AT MID-HEIGHT OF SLOT)



2. ADDITIONAL STUDS REQUIRED AS NAILERS, ETC. ARE NOT SHOWN.



(12) 10d-F NAILS

BEAM PER PLAN

2x BUILT-UP POST BELOW w/ KING

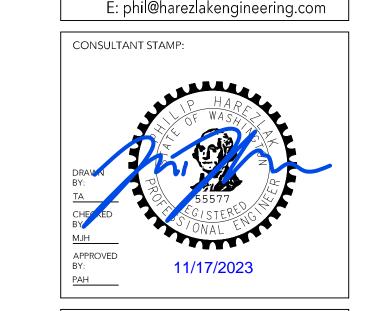
STUD EA. SIDE

10d-F NAILS @

12" O.C., TYP.

EA. SIDE

AT NON-SHEAR WALLS)



HAREZLAK

ENGINEERING

HAREZLAK ENGINEERING

11745 87th Ave. S

Seattle, WA 98178

PH: 360.224.0627

98040

6450 E MERCER WAY MERCER ISLAND, WA

DATE

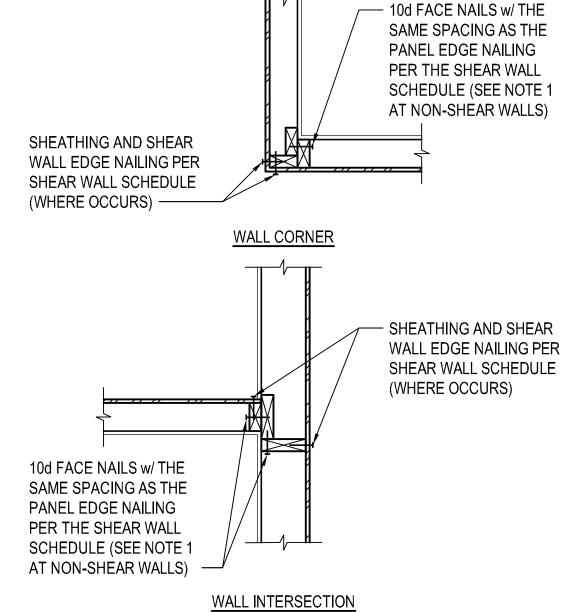
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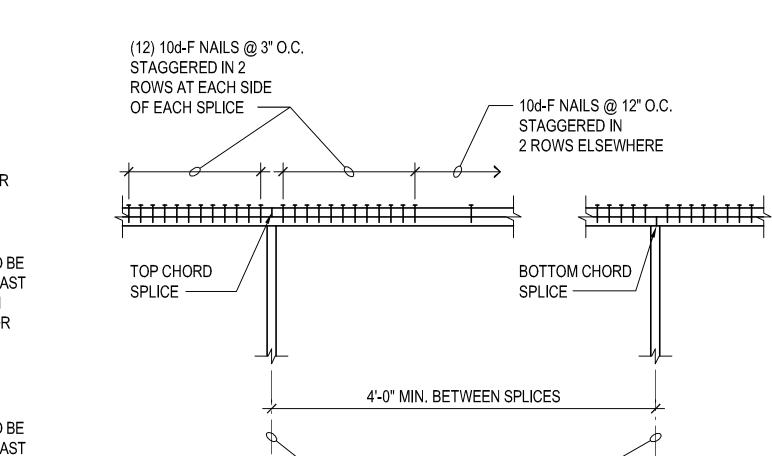
11.17.2023

PROJECT NUMBER:

CURRENT REVISION:

VARYING WALL SIZE

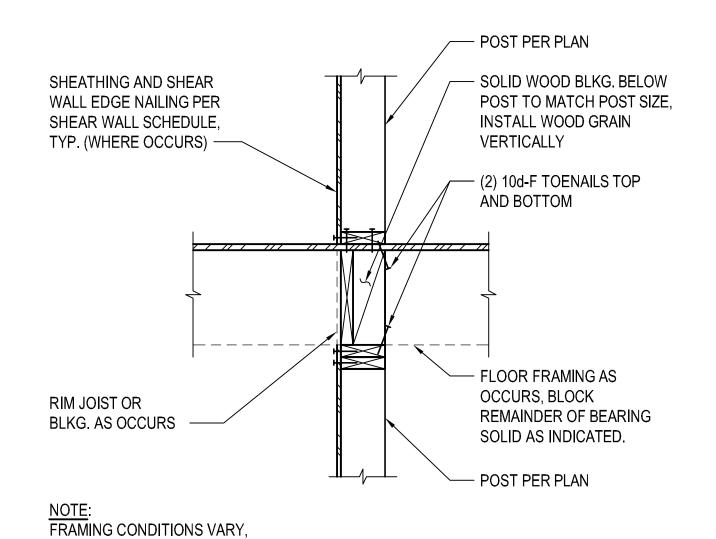




JOIST PER PLAN

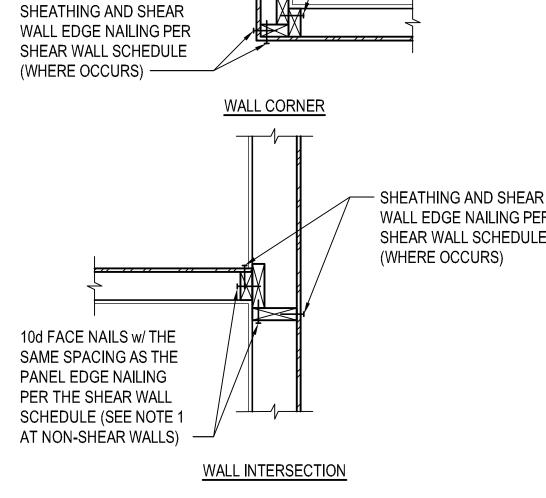
NON-BEARING WALL

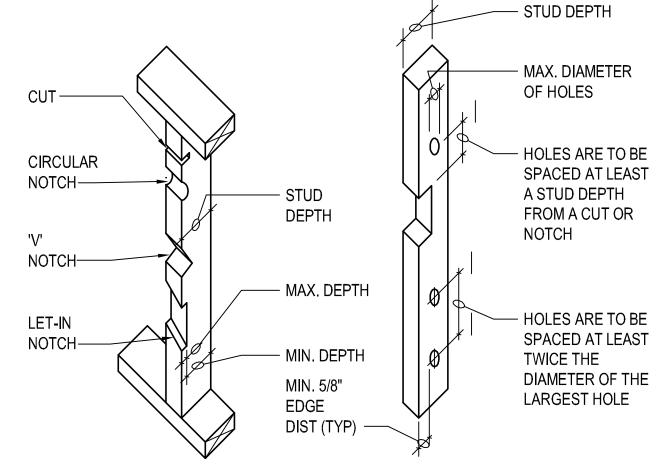
PER ARCH. DRAWINGS



FOR INFORMATION NOT

NOTED SEE PLAN & APPROPRIATE DETAILS







| DEADING | \A/A | OTUDO. |
|---------|------|--------|
| BEARING | WALL | 21002 |

| STUD | MAX. DEPTH OF | MIN. DEPTH REMAINING | |
|-------------|------------------|----------------------|--|
| <u>SIZE</u> | SAW CUT OR NOTCH | AFTER CUT OR NOTCH | |
| 2x4 | 7/8" | 2-3/8" | |
| 2x6 | 1-3/8" | 4-1/8" | |
| 2x8 | 1-7/8" | 5-3/8" | |
| ON BEADING | O MALL OTUBO | | |

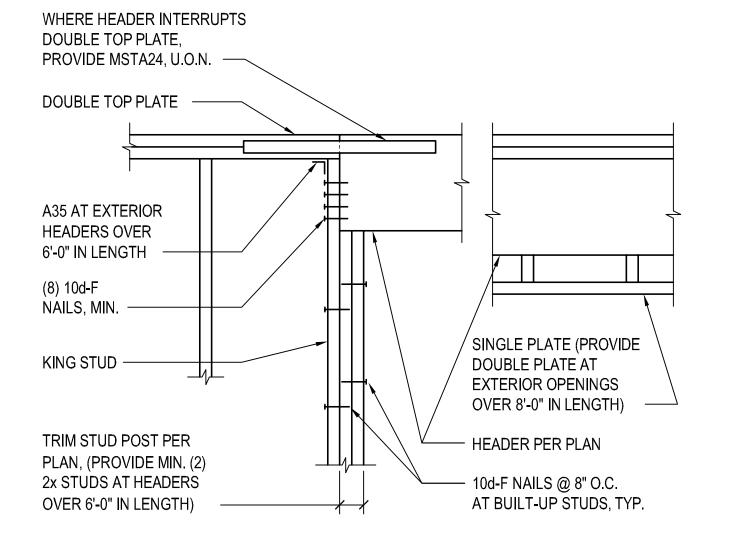
| NO | N-BEARING | WALL STUDS: | |
|----|-----------|------------------|----------------------|
| | STUD | MAX. DEPTH OF | MIN. DEPTH REMAINING |
| | SIZE | SAW CUT OR NOTCH | AFTER CUT OR NOTCH |
| | 2x4 | 1-1/2" | 2" |
| | 2x6 | 2-3/8" | 3-1/8" |
| | 2x8 | 3" | 4-1/4" |

B. HOLES IN WOOD STUDS BEARING WALL

| SIZE OF HOLE 2x4 1-1/2" 2x6 2-3/8" | WINTO WITCH. | |
|--------------------------------------------------------------------------------|--------------|--------------------------|
| 2x6 2-3/8" | | MAX. DIAMETER OF HOLE |
| 2X8 3 | =/: | |

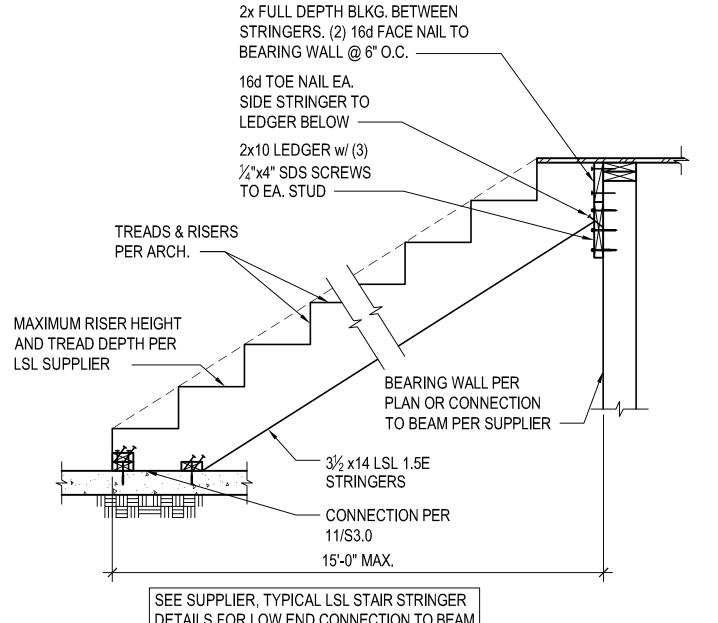
NON-BEARING WALL:

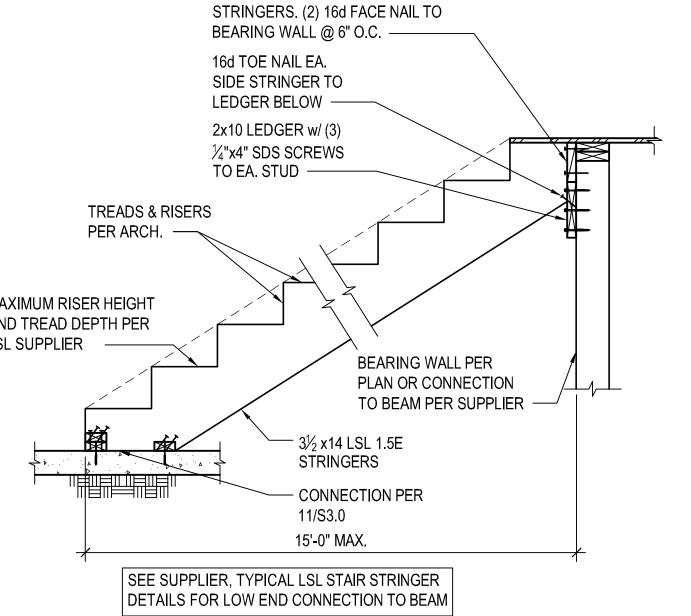
| STUD SIZE | MAX. DIAMETE OF HOLE |
|--------------|-------------------------|
| 2x4 | 2-1/4" |
| 2x6 | 3-3/8" |
| 2x8 | 4-1/2" |



SPLICE TO OCCUR AT I

OF STUD (TYP.) —





WOOD **FRAMING DETAILS**

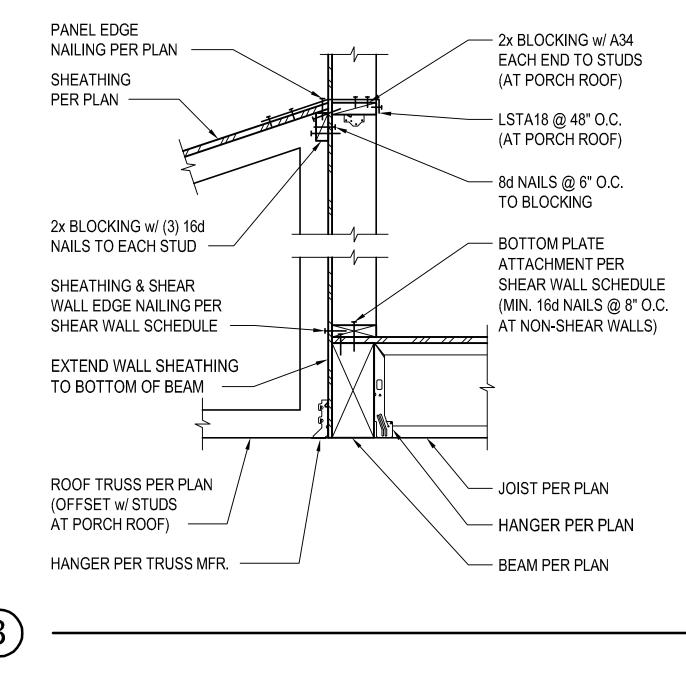
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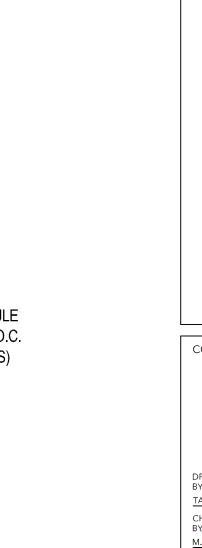
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REVISIONS:

NO. DESCRIPTION

SHEET NAME:





(4)

(8)

- BOTTOM PLATE

ATTACHMENT PER

SHEAR WALL SCHEDULE

(MIN. 16d NAILS @ 8" O.C.

AT NON-SHEAR WALLS)

PANEL EDGE NAILING PER

PLAN TO BLKG., TYP.

— SHEATHING PER PLAN

✓ JOIST PER PLAN

— 4'-0" MIN. LENGTH OF LSL

- CS20 STRAP w/ (4) 10d

NAILS TO EACH BLKG.

- A34, BLKG. TO PLATE

BOTTOM PLATE

ATTACHMENT PER

SHEAR WALL SCHEDULE

(MIN. 16d NAILS @ 8" O.C.

AT NON-SHEAR WALLS)

— SHEATHING PER PLAN

- JOIST PER PLAN

- (2) 8d BOX NAILS

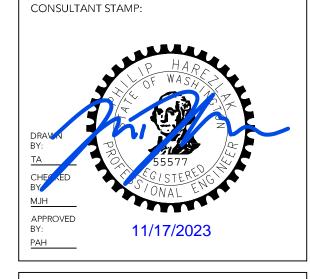
- HEADER PER PLAN WHERE OCCURS.

HEADER DETAIL(S)

SEE TYPICAL

EACH JOIST TO PLATE

BLKG. @ 48" O.C.



HAREZLAK

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Ø WANG

98040



SHEET NAME: **FLOOR FRAMING DETAILS**

SHEET NUMBER:

- NAILS PER PLAN — STRAP PER PLAN — SHEATHING PER PLAN - 2x FLAT BLOCKING BETWEEN FRAMING (WHERE STRAP IS PERPENDICULAR TO FRAMING)

2'-0" MIN. w/ 8d NAILS

@ 2" O.C. TO RIM JOIST

CS16 STRAP —

LENGTH OF STRAP PER PLAN

6/S4.2

— JOIST PER PLAN

OF BLOCKING)

- RIM JOIST

- PROVIDE 2x4 FLAT BLKG.

AT STRAP. WHERE JOISTS

ARE PARALLEL TO STRAP,

UNDER THE STRAP (INSTEAD

ADD OR ALIGN A JOIST

w/ 8d NAILS @ 8" O.C.

 CS16 STRAP AT TOP & BOTTOM OF SHEATHING AND SHEAR OPENING (OVER SHEATHING). FILL ALL NAIL HOLES AT BLKG. AND WALL EDGE NAILING PER PROVIDE 8d NAILS @ 2" O.C. SHEAR WALL SCHEDULE NEXT TO OPENING — HEADER PER PLAN WALL OPENING 6/S4.2 2x FLAT BLKG. AT STRAP., TYP. TO END OF SHEAR TO END OF SHEAR - CONT. DBL. STUD JAMBS. NAIL SHTG. TO EACH STUD WALL EXTENT WALL EXTENT w/ SHEAR WALL EDGE NAILING PER PLAN PER PLAN

BOTTOM PLATE ATTACHMENT PER SHEAR WALL SCHEDULE. (MIN. 16d NAILS @ 8" O.C. AT NON-SHEAR WALLS) - PANEL EDGE NAILING PER PLAN - SHEATHING PER PLAN JOIST PER PLAN - (2) 8d BOX NAILS EA. JOIST TO PLATE

NO WALL ABOVE AT SIM. LSL RIM JOIST w/ (1) 10d-F NAIL TO TOP AND BOTTOM CHORD OF EACH JOIST. CONNECTION TO TOP PLATE BELOW PER SHEAR WALL SCHEDULE (MIN. 10d-F

TOENAILS @ 8" O.C. AT NON-SHEAR WALLS) -SHEATHING AND SHEAR WALL EDGE NAILING PER SHEAR WALL SCHEDULE, TYP. (WHERE OCCURS) ——

PANEL EDGE

NAILING PER PLAN

SHEATHING AND SHEAR WALL EDGE

LSL RIM JOIST w/

NAILING PER SHEAR

WALL SCHEDULE, TYP. —

(2) 10d-F NAILS TO BLKG.

SHEAR WALL SCHEDULE (MIN. 10d-F TOENAILS @ 8" O.C. AT NON-SHEAR WALLS)

CONNECTION TO TOP PLATE BELOW PER

HEADER PER PLAN

HEADER DETAIL(S)

WHERE OCCURS.

SEE TYPICAL

PANEL EDGE

NAILING PER PLAN

SHEAR WALL EDGE

NAILING PER SHEAR

WALL SCHEDULE, TYP. —

LSL RIM JOIST w/ (1) 10d-F

CONNECTION TO TOP PLATE

NAIL TO TOP AND BOT.

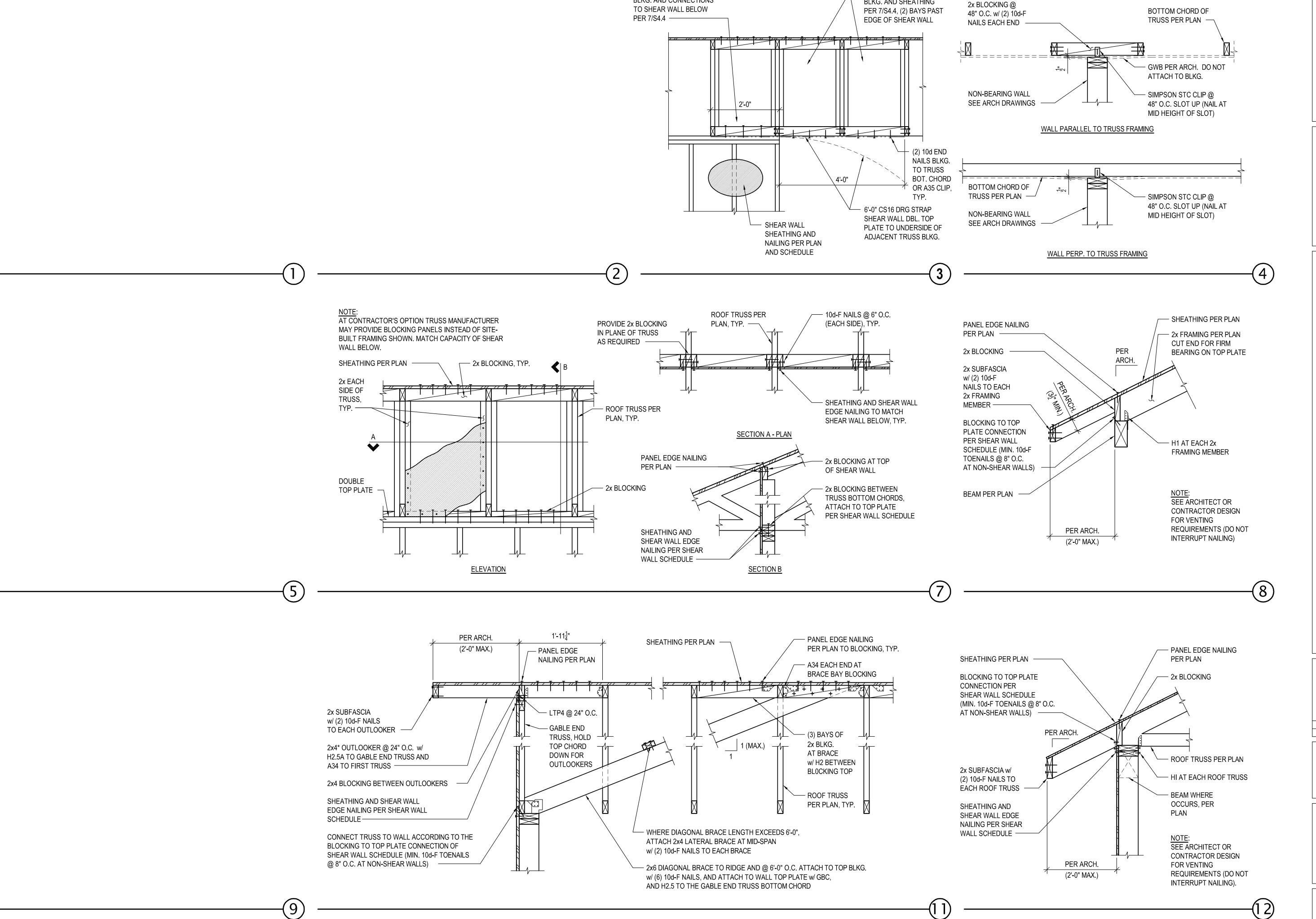
CHORD OF EACH JOIST.

BELOW PER SHEAR WALL

SCHEDULE (MIN. 10d-F

TOENAILS @ 8" O.C. AT NON-SHEAR WALLS -

SHEATHING AND



BLKG. AND CONNECTIONS

ADDITIONAL 2x OR TRUSS

BLKG. AND SHEATHING



CONSULTANT STAMP: APPROVED BY: 11/17/2023

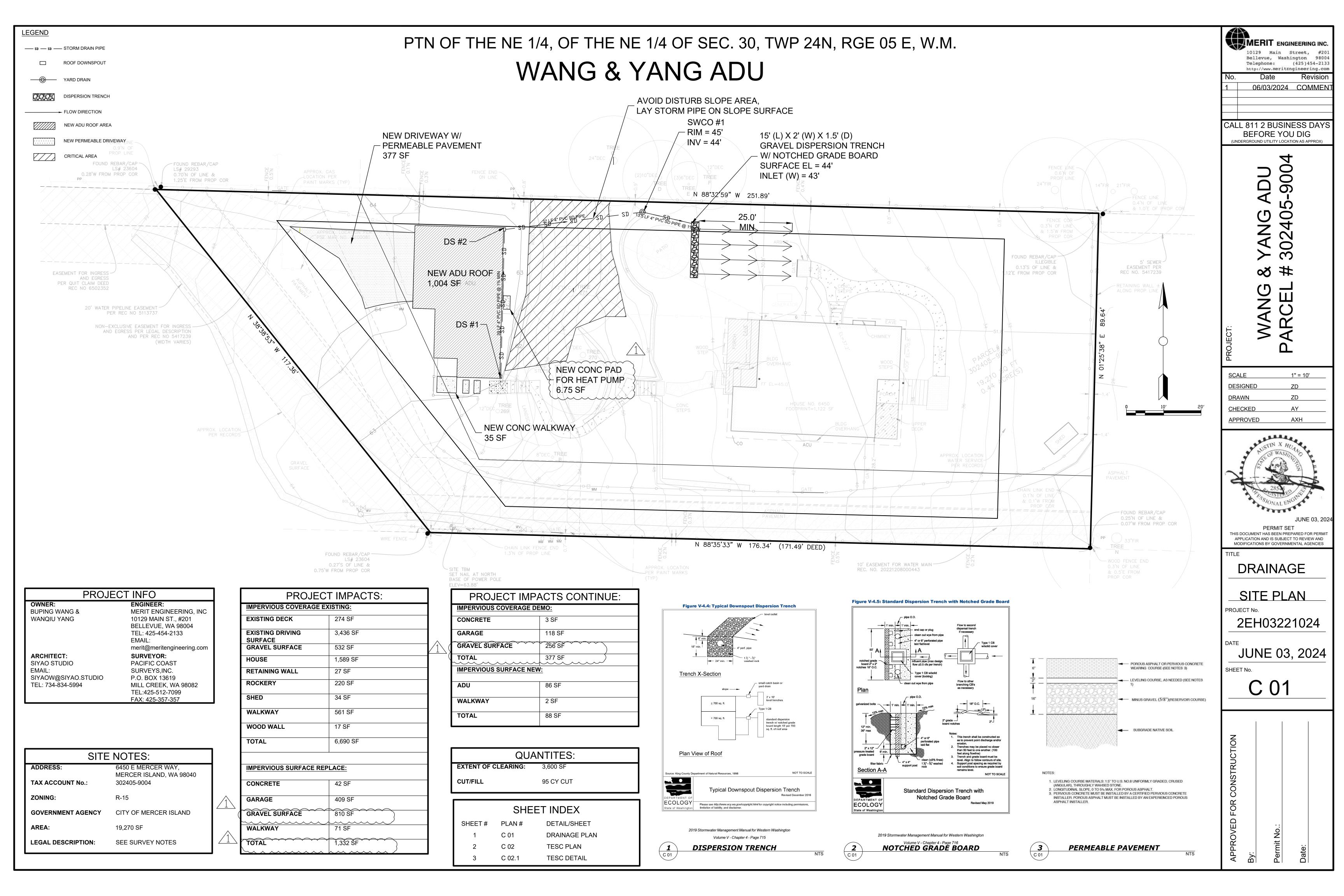
Ko WANG

6450 E MERCER WAY MERCER ISLAND, WA **REVISIONS:** NO. DESCRIPTION DATE PROJECT NUMBER: ISSUE DATE: 11.17.2023 **CURRENT REVISION:** SHEET NAME:

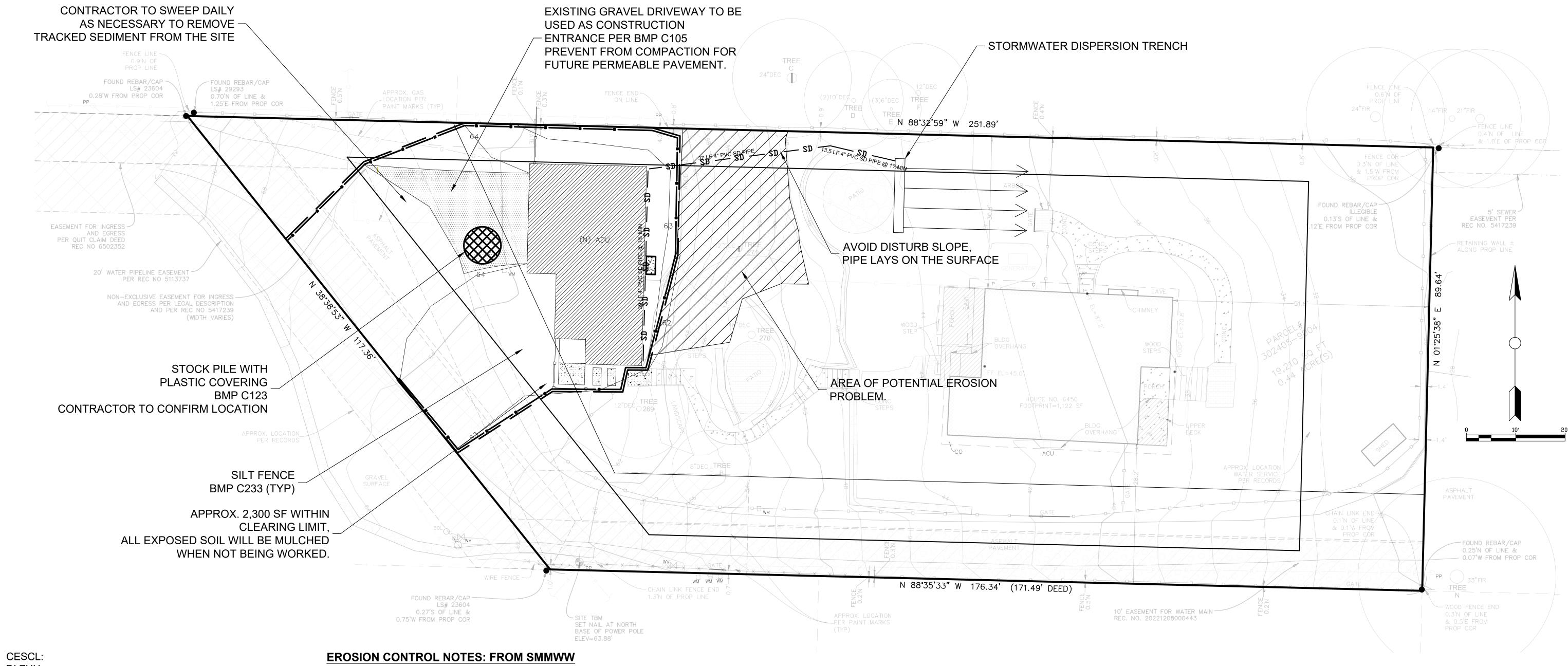
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ROOF FRAMING DETAILS

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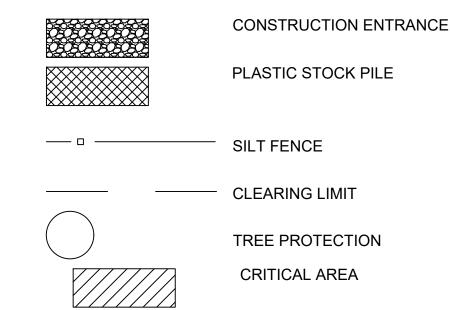


PTN OF THE NE 1/4, OF THE NE 1/4 OF SEC. 30, TWP 24N, RGE 05 E, W.M.



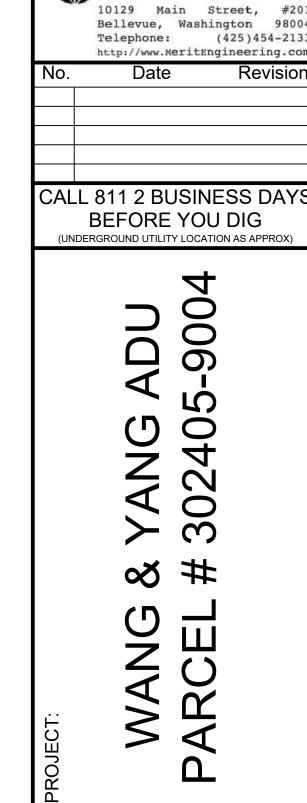
DI ZHU
ID#: EF8184699
TEL: 253-391-7441

TESC LEGEND



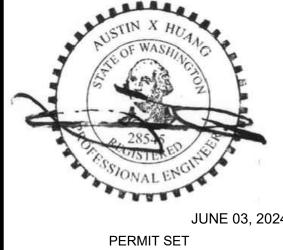
| QUANTITES: | |
|---------------------|-----------|
| EXTENT OF CLEARING: | 3,600 SF |
| CUT/FILL | 95 CY CUT |

- 1. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE SC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/ESC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED.
- 2. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED BY A CONTINUOUS LENGTH OF SURVEY APE (OR FENCING, IF REQUIRED) PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE CLEARING LIMITS SHALL BE PERMITTED.
- 3. THE CLEARING LIMITS SHALL BE MAINTAINED BY THE APPLICANT/ESC SUPERVISOR FOR THE DURATION OF CONSTRUCTION.
- 4. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES IS MINIMIZED.
- 5. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G., ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.).
- 6. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/ESC SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE KEPT OF WEEKLY REVIEWS OF THE ESC FACILITIES DURING THE WET SEASON (OCT. 1 TO APRIL 30) AND OF MONTHLY REVIEWS DURING THE DRY SEASON (MAY 1 TO SEPT. 30).
- 7. ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO DAYS DURING THE WET SEASON OR SEVEN DAYS DURING THE DRY SEASON SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.).
- 8. ANY AREA NEEDING ESC MEASURES THAT DO NOT REQUIRE IMMEDIATE ATTENTION SHALL BE ADDRESSED WITHIN FIFTEEN (15) DAYS.
- 9. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN FORTY EIGHT (48) HOURS FOLLOWING A STORM EVENT.
- 10. AT NO TIME SHALL MORE THAN ONE (1) FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING.
- 11. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.
- 12. STABILIZED CONSTRUCTION ENTRANCES AND ROADS SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES, SUCH AS WASH PADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
- 13. ANY PERMANENT FLOW CONTROL FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY. IF THE FACILITY IS TO FUNCTION ULTIMATELY AS AN INFILTRATION SYSTEM, THE TEMPORARY FACILITY MUST BE GRADED SO THAT THE BOTTOM AND SIDES ARE AT LEAST THREE FEET ABOVE THE FINAL GRADE OF THE PERMANENT FACILITY. WHERE STRAW MULCH FOR TEMPORARY EROSION CONTROL IS REQUIRED, IT SHALL BE APPLIED AT A MINIMUM THICKNESS OF 2 TO 3 INCHES.
- 14. PRIOR TO THE BEGINNING OF THE WET SEASON (OCT. 1), ALL DISTURBED AREAS SHALL BE REVIEWED TO IDENTIFY WHICH ONES CAN BE SEEDED IN PREPARATION FOR THE WINTER RAINS. DISTURBED AREAS SHALL BE SEEDED WITHIN ONE WEEK OF THE BEGINNING OF THE WET SEASON. A SKETCH MAP OF THOSE AREAS TO BE SEEDED AND THOSE AREAS TO REMAIN UNCOVERED SHALL BE SUBMITTED TO THE CITY INSPECTOR. THE CITY INSPECTOR CAN REQUIRE SEEDING OF ADDITIONAL AREAS IN ORDER TO PROTECT SURFACE WATERS, ADJACENT PROPERTIES, OR DRAINAGE FACILITIES.



MERIT ENGINEERING INC.

| SCALE | 1" = 20' |
|----------|----------|
| DESIGNED | ZD |
| DRAWN | ZD |
| CHECKED | AY |
| APPROVED | AXH |
| | |



THIS DOCUMENT HAS BEEN PREPARED FOR PERMI APPLICATION AND IS SUBJECT TO REVIEW AND MODIFICATIONS BY GOVERNMENTAL AGENCIES

TESC PLAN

PROJECT No. **2EH03221024**

JUNE 03, 2024

SHEET No.

C 02

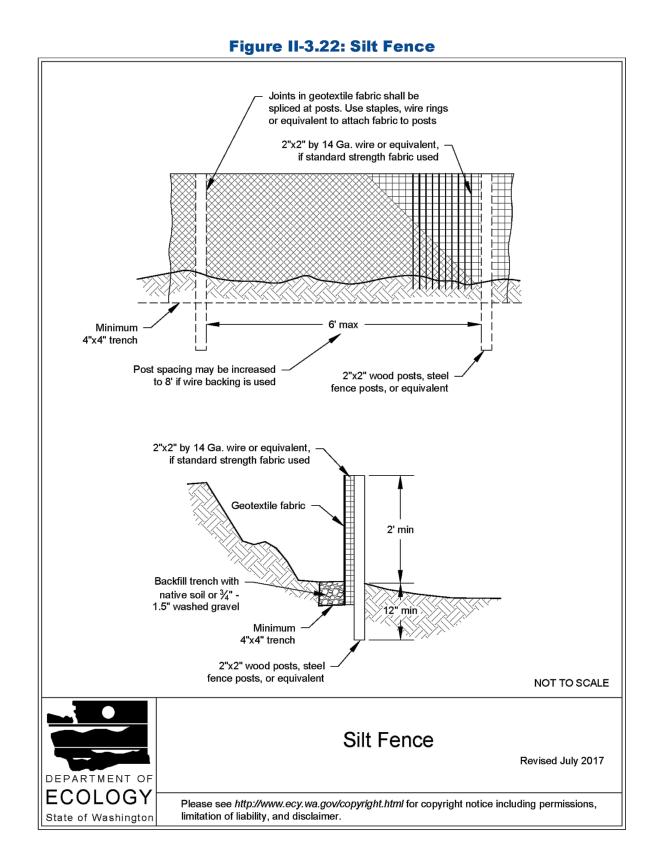
APPROVED FOR CONSTRUCTION

By:

Permit No.:

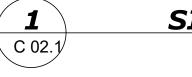
Date:

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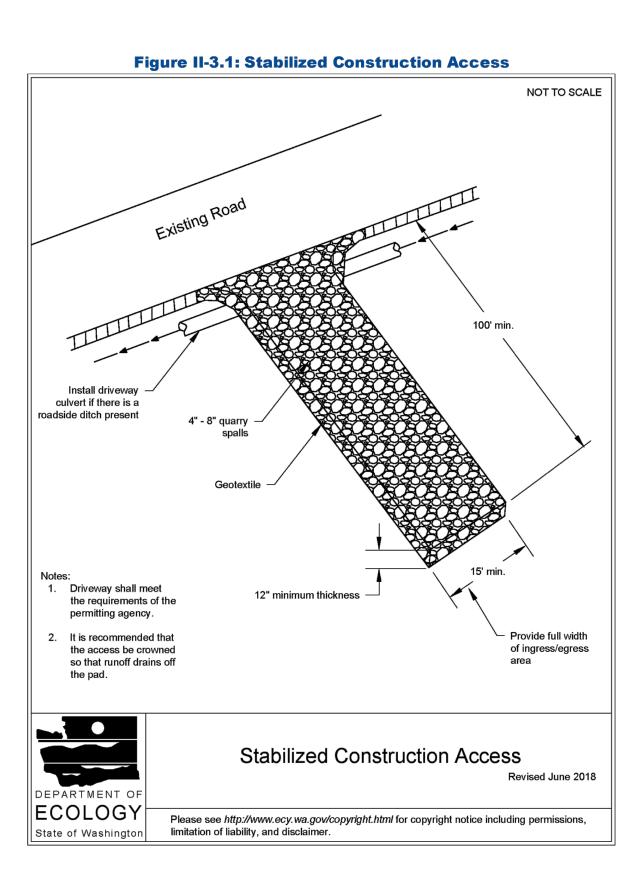


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SILT FENCE DETAIL NTS



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Bellevue, Washington 98004 Telephone: (425)454-2133 http://www.MeritEngineering.com CALL 811 2 BUSINESS DAYS BEFORE YOU DIG (UNDERGROUND UTILITY LOCATION AS APPROX) SCALE NTS CHECKED APPROVED PERMIT SET APPLICATION AND IS SUBJECT TO REVIEW AND MODIFICATIONS BY GOVERNMENTAL AGENCIES TESC DETAILS PROJECT No. 2EH03221024 JUNE 03, 2024 SHEET No. C 02.1

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