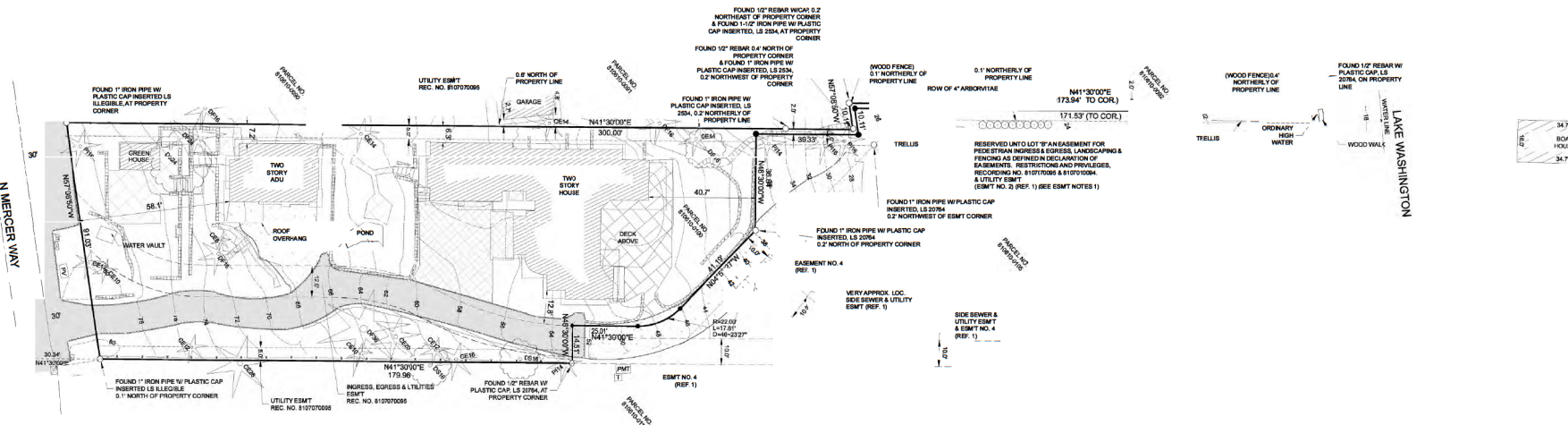
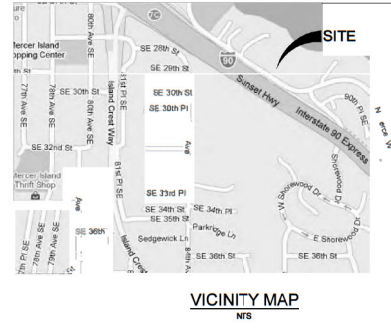


GRAPHIC SCALE
10 0 20 40
1 INCH = 20 FT.

LEGEND

- | | |
|---|---|
| <ul style="list-style-type: none"> ● FOUND MONUMENT AS DESCRIBED ○ FOUND REBAR AS DESCRIBED — TACK W/ LEAD FOUND ● SET 5/8" X 24" IRON ROD W/ YELLOW PLASTIC CAP ○ POWER METER ○ UTILITY POLE ○ GAS METER ● SANITARY SEWER CLEANOUT ○ SANITARY SEWER MANHOLE ○ WATER VALVE ○ FIRE HYDRANT ○ WATER METER ○ SIGN — SS — APPROXIMATE LOCATION SANITARY SEWER LINE — SD — APPROXIMATE LOCATION STORM DRAIN LINE — OHP — OVERHEAD POWER — OHU — OVERHEAD UTILITIES — X — CHAINLINK FENCE — □ — WOOD FENCE | <ul style="list-style-type: none"> — CONCRETE WALL — ROCKERY — ASPHALT SURFACE — CONCRETE SURFACE — GRAVEL SURFACE — CE CEDAR — DG DECIDUOUS — DF DOUGLAS FIR — MP MAPLE — PI PINE * — INDICATES MULTI-TRUNK |
|---|---|



GENERAL NOTES

- THIS SURVEY WAS COMPLETED WITHOUT BENEFIT OF CURRENT TITLE REPORT, EASEMENTS AND OTHER ENCUMBRANCES MAY EXIST ON THIS PROPERTY THAT ARE NOT SHOWN HEREON.
- INSTRUMENTATION FOR THIS SURVEY WAS A 3.5600 INCH NINO V.C. TOTAL STATION. PROCEDURES USED IN THIS SURVEY MEET OR EXCEED STANDARDS SET BY WAC 335-330-000.
- THE INFORMATION ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY MADE IN MAY 2016 & MARCH 2020 AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
- UTILITIES SHOWN ON THIS SURVEY ARE BASED UPON ABOVE GROUND OBSERVATIONS AND AS-BUILT PLANS WHERE AVAILABLE. ACTUAL LOCATIONS OF UNDERGROUND UTILITIES MAY VARY AND UTILITIES NOT SHOWN ON THIS SURVEY MAY EXIST ON THIS SITE.
- ALL MONUMENTS WERE LOCATED DURING THIS SURVEY UNLESS OTHERWISE NOTED.

REFERENCES

- MERCER ISLAND BOUNDARY LINE REVISION FILE NO. 88-25-32-1, PREPARED BY JONES BASS & ASSOCIATES, RECORDED SEPTEMBER 15, 1985 IN VOLUME 37 OF SURVEYS, PAGE 137, UNDER RECORDING NO. 800919610, RECORDS OF KING COUNTY, WASHINGTON.

EASEMENT NOTES

- DECLARATION RECORDED UNDER RECORDING NO. 810707006 DESCRIBES THE EASEMENT FOR FRONTYARD INGRESS & EGRESS, LANDSCAPING AND FINCHING AS DEFINED IN DECLARATION OF EASEMENT RESTRICTIONS AND PRIVILEGES, UNDER RECORDING NOS. 810707006 & 810707008 AS BEING THE NORTH 410 FEET OF LOT B PER REFERENCE NO. 1. HOWEVER, ALL RECORDED DOCUMENTS INDICATE THAT THE EASEMENT IS 5.00 FEET FROM THE NORTH LINE OF LOT A PER REFERENCE NO. 1.

LEGAL DESCRIPTION

REAL PROPERTY IN THE COUNTY OF KING, STATE OF WASHINGTON, DESCRIBED AS FOLLOWS:
 LOT A OF MERCER ISLAND SHORT PLAT RECORDED UNDER KING COUNTY RECORDING NUMBER 781218972 AND REVISED UNDER KING COUNTY RECORDING NUMBERS 791300040 AND 820919816, BEING A SUBDIVISION OF TRACT 10, SUNDYBANK, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 29 OF PLATS, PAGE 31, IN KING COUNTY, WASHINGTON.
 EXCEPT THE NORTHEASTERLY 10 FEET IN WIDTH OF THE SOUTHWESTERLY 300 FEET, AS MEASURED ALONG THE NORTHWESTERLY LINE THEREOF TOGETHER WITH THE SHORELANDS OF THE SECOND CLASS ADJOINING AND LYING BETWEEN THE NORTHEASTERLY PROJECTION OF THE SIDELINES OF SAID TRACT, SITUATE IN THE COUNTY OF KING, STATE OF WASHINGTON.

BASIS OF BEARINGS

ACCEPTED A BEARING OF N 41°30'00"E FOR THE SOUTHEASTERLY BOUNDARY OF LOT A OF MERCER ISLAND SHORT PLAT, AS RECORDED UNDER RECORDING NUMBER 781218972, BASED ON FOUND MONUMENTS.

EASEMENTS/RESTRICTIONS PER TITLE REPORT

- THIS SITE IS SUBJECT TO THE TERMS AND CONDITIONS OF A SEWER LINE EASEMENT RECORDED UNDER A.F.N. 802952, RECORDS OF KING COUNTY WASHINGTON, (ACROSS SHORELANDS - NOT SHOWN).
- THIS SITE IS SUBJECT TO THE TERMS AND CONDITIONS OF AN ELECTRIC TRANSMISSION EASEMENT RECORDED UNDER A.F.N. 760282072, RECORDS OF KING COUNTY, WASHINGTON, (NOT SHOWN - OVER EXISTING UNDERGROUND UTILITIES).
- THIS SITE IS SUBJECT TO THE TERMS AND CONDITIONS OF A SEWER LINE EASEMENT, RECORDED UNDER A.F.N. 800110064, RECORDS OF KING COUNTY, WASHINGTON, (SHOWN HEREON).
- THIS SITE IS SUBJECT TO THE TERMS AND CONDITIONS OF AN AERIAL TELEVISION LINE EASEMENT, RECORDED UNDER A.F.N. 801110012, RECORDS OF KING COUNTY, WASHINGTON, (NOT SHOWN - UNABLE TO OBTAIN DOCUMENT).
- THIS SITE IS SUBJECT TO RESERVATIONS CONTAINED IN DEED FROM THE STATE OF WASHINGTON RECORDED UNDER RECORDING NO. 8494, RESERVING ALL OIL, GAS, COAL, ORES, MINERALS, POSSIBLE, ETC., AND THE RIGHT OF ENTRY FOR OPENING, DEVELOPING AND WORKING THE SAME, (NO PLOTTABLE DATA).
- THIS SITE IS SUBJECT TO ANY AND ALL OFFERS OF DEDICATION, CONDITIONS, RESTRICTIONS, EASEMENTS, FENCE LINE BOUNDARY DISCREPANCIES, NOTES AND/OR PROVISIONS SHOWN OR DISCLOSED BY SHORT PLAT NO. 88-25-32-1, RECORDED UNDER RECORDING NUMBER 800919610, SAID SHORT PLAT IS A REVISION OF SHORT PLATS RECORDED UNDER RECORDING NOS. 781218972 AND 791300040. (SHOWN HEREON).

VERTICAL DATUM & CONTOUR INTERVAL

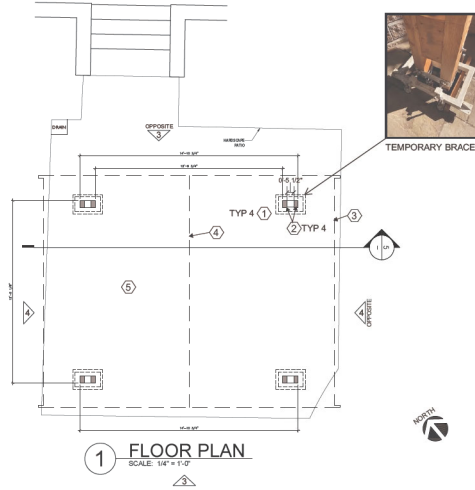
ELEVATIONS SHOWN ON THIS DRAWING WERE DERIVED FROM INFORMATION PROVIDED BY CITY OF MERCER ISLAND SURVEY CONTROL DATABASE.
 POINT C.D. 869 - FOUND 3.0" DIAMETER CONCRETE FILLED IRON PIPE WITH BRASS TACK DOWN 0.4' AT THE CENTERLINE OF A MERCER WAY AT THE WEST END MERCER PARK LANE IN THE 8500 BLOCK.
 ELEVATION: 75.881 FEET (23.08 METERS) NAVD88
 0.2' CONTOUR INTERVAL - THE EXPECTED VERTICAL ACCURACY IS EQUAL TO 1/2 THE CONTOUR INTERVAL, OR PLUS / MINUS 1/2 FOR THIS PROJECT.

SE 1/4 NE 1/4 SEC 25 P 26N RN 4E WM

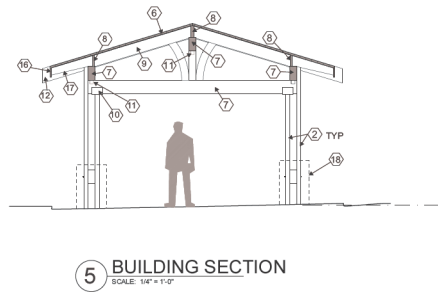
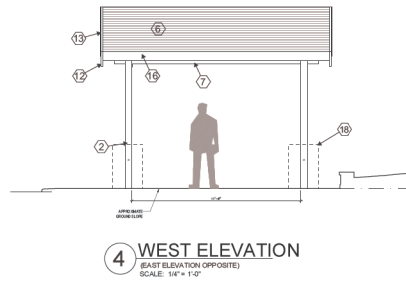
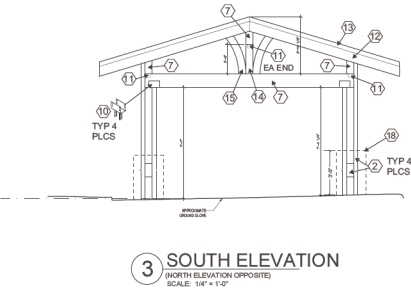
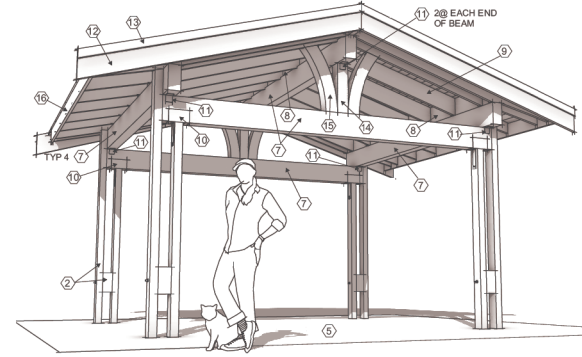
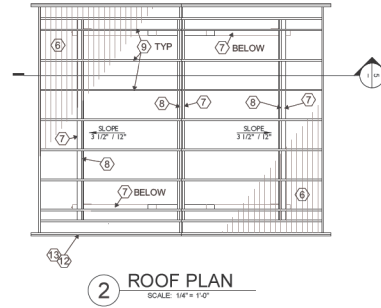


TOPOGRAPHIC SURVEY
 KAN'CU & LU'YAN
 8536 N MERCER WAY
 MERCER ISLAND WA 980 0

PROJECT NO. 23-154
 DRAWN BY: EFJ
 CHECKED BY: TNW
 DATE: 4/4/2023
 SHEET 1 OF 1



PROJECT DESCRIPTION
MOVE EXISTING, NON-PERMITTED TIMBER FRAME PERGOLA APPROXIMATELY 7'-8" NE TO COMPLY WITH MIN. 20'-0" FRONT YARD SETBACK, PER BUILDING INSPECTOR'S DIRECTION. EXISTING CONSTRUCTION HAS BEEN ACCURATELY MEASURED, REVIEWED BY A STRUCTURAL ENGINEER (REF: STRUCTURAL SHEETS) TO FULLY COMPLY WITH CURRENT STRUCTURAL CODE. REFERENCE SITE PLAN FOR EXACT LOCATION ON PROPERTY. NOTE THAT THE RELOCATION WILL CONFLICT WITH THE EXISTING LANDSCAPE STAIRS WHICH WILL NEED TO BE REDESIGNED & RELOCATED ALSO.



KEYNOTES

- ① TEMPORARY POST BRACKET. RELOCATE STRUCTURE PER SITE PLAN. REMOVE BRACKET AND MOUNT POSTS PER STRUCTURAL (4 PLACES).
- ② DOUBLE 4X6 WOOD COLUMNS SPACED 5 1/2" APART (4 PLACES). NOTE ON N-S ELEVATIONS THAT THE COLUMNS ARE CONNECTED WITH A 6X6X11 1/4" WOOD BLOCK AT THE BOTTOM. (TEMPORARY CONNECTION - REF: STRUCTURAL)
- ③ EDGE OF ROOF - REF: ROOF PLAN.
- ④ ROOF RIDGE - REF: ROOF PLAN.
- ⑤ EXISTING STONE PATIO.
- ⑥ 1 1/2"X5" T&G DECKING.
- ⑦ 6X12 BEAM
- ⑧ 2X BLOCKING BETWEEN JOISTS
- ⑨ 2X10 JOISTS @ 24" OC
- ⑩ SIMPSON CC64 POST CAP (4 PLACES)
- ⑪ SIMPSON CHA33 ORNAMENTAL ANGLE (12 PLACES)
- ⑫ 2X10 GABLE END TRIM
- ⑬ 1X4 TRIM
- ⑭ 6X6 KING POST
- ⑮ CURVED DECORATIVE BRACE - 5 1/2" THICK
- ⑯ 2X8 TRIM AT RAFTER ENDS
- ⑰ ANGLE CUTS ON END OF RAFTERS
- ⑱ NOTE: COLUMN BASE TO BE COVERED W/STONE VENEER PLINTH.

MICHAEL L. JONES
ARCHITECT/CONSULTANT, LLC

Mercer Island Pergola

8636 N Mercer Way
Mercer Isl, WA 98040



PERMIT SUBMIT

GENERAL STRUCTURAL NOTES

(The following apply unless shown otherwise on the plans)

CENTRA

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

DESIGN LOADING CRITERIA

ROOF LIVE LOAD (MINIMUM PRECEDENCE NOT INCLUDING DIFT)

20 PSF

DESIGN LOADING CRITERIA - LATERAL LOADS

WIND

V₁₀ = 100 MPH (3-SECOND GUST) V₁₅ = 111 MPH (3-SECOND GUST)
TYPICAL BUILDING EXPOSURE C, 100 FT
DIRECTIONAL PROCEEDURE PER ASCE 7-10 CH.1

SEISMICITY

RISK CATEGORY II, S₁ = 0.08
S₁ = 0.08, S₂ = 0.04
R₁ = 1.0, R₂ = 1.0 (ADJUSTED)
R₃ = 1.0, R₄ = 1.0
S_{0.2} = 0.05, S_{0.5} = 0.04
SEISMIC COEFFICIENT = 0.1
DESIGN BASE SHEAR = 4.4 KIPS
EQUIVALENT LATERAL FORCE PROCEEDURE

DESIGN LOADING CRITERIA - DEAD LOADS

14 PSF

3. STRUCTURAL DRAWINGS SHALL BE USED IN CONNECTION WITH ARCHITECTURAL AND ALL OTHER DISCIPLINE DRAWINGS FOR RECORDS AND CONSTRUCTION. CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS FOR COMPLEATLY AND SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

DISCREPANCIES: THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING DURING THE BIDDING PERIOD OF ANY DISCREPANCIES OR CHANGES NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS OR OF ANY VARIATIONS IN ORDER TO CONFORM TO CODES, RULES AND REGULATIONS, UPON RECEIPT OF SUCH INFORMATION, THE ENGINEER WILL SEND WRITTEN INSTRUCTIONS TO ALL CONCERNED. ANY SUCH CORRECTION, CHANGES OR VARIATION NOT REQUESTED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND WORK SHALL BE PERFORMED IN A MANNER AS DIRECTED BY THE ENGINEER.

4. CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS, MEASUREMENTS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS EXISTING CONSTRUCTION WORK ON THE DRAWINGS ARE INTENDED AS INDICATED ONLY AND THAT THEY WILL BE VERIFIED BY THE CONTRACTOR OR THE CONTRACTOR'S SUBCONTRACTOR.

CONTRACTOR SHALL VERIFY TEMPORARY BRACING FOR THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE PLANS.

ERECTOR PLANS AND DETAILS OF BRACING SYSTEMS SHALL BE PROVIDED BY THE CONTRACTOR. DESIGN CALCULATIONS AND DRAWINGS ARE TO BE STAMPED BY A LICENSED STRUCTURAL ENGINEER IN THE STATE OF WASHINGTON. ALL SETS OF CALCULATIONS AND DRAWINGS ARE TO BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW. THIS CHECKING REVIEW WILL CHECK WHETHER THE CONTRACTOR'S ENGINEER HAS COMPLETED THE LOAD PATH THROUGHOUT ALL THE BUILDING'S DEAD LOADS AND CONSTRUCTION LIVE LOADS DOWN TO WATERSHEDS. THE WORKING SHALL NOT BE SUPERSEDING ON THE EXISTING STRUCTURE.

CHANGES IN FIELD CONDITIONS DURING CONSTRUCTION WILL REQUIRE RE-EVALUATION OF THE CONTRACTOR'S BRACING ENGINEER.

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

1. CONTRACTOR/INTEGRATED CHANGES SHALL BE IDENTIFIED IN WRITING TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES WORK OUT ON EACH DRAWING WILL NOT BE SUBJECT TO THIS REQUIREMENT.

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

ALL STRUCTURAL SYSTEMS WHICH ARE TO BE CONFORMED TO FIELD ERECTOR COMPONENTS SHALL BE PERFORMED BY THE SUPPLIER DURING MANUFACTURE, DELIVERY, HANDLING, STORAGE AND ERECTION IN ACCORDANCE WITH INSTRUCTIONS PROVIDED BY THE SUPPLIER.

INSPECTION

- 10. SUFFICIENT SPECIAL INSPECTIONS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 1905 OF THE IBC OR AS FOLLOWS:
A. THE FOLLOWING SYSTEMS WILL BE SUBJECT TO THE SPECIFIC QUALITY ASSURANCE CONCRETE CONSTRUCTION:
B. SPECIAL INSPECTION AND TESTING OF SPECIAL REINFORCED CONCRETE WALLS AND CONCRETE FOUNDATIONS SHALL CONFORM TO SECTION 1908.
C. THE TYPE AND FREQUENCY OF TESTING REQUIRED SHALL BE PER IBC SECTION 1908 AND 1914.
D. THE TYPE AND FREQUENCY OF SPECIAL INSPECTIONS REQUIRED SHALL BE PER IBC SECTION 1908 AND 1914.
E. THE REQUIRED FREQUENCY AND DISTRIBUTION OF TESTING AND SPECIAL INSPECTION REPORTS SHALL BE THE RESPONSIBILITY OF THE INSPECTION/TESTING AGENCY. REPORTS SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER'S RECORD WITHIN 14 DAYS OF COMPLETION.
F. STRUCTURAL OBSERVATION OF THE LATERAL AND GRAVITY STRUCTURAL SYSTEMS SHALL OCCUR AT APPROPRIATE INTERVALS DURING CONSTRUCTION. THE STRUCTURAL ENGINEER SHALL OBSERVE THAT THE WORK IS PROGRESSING IN GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS AND ACCORDING TO THE DESIGN INTENT.
G. A STRUCTURAL OBSERVATION REPORT SHALL BE SUBMITTED TO THE ARCHITECT OR RECORD AFTER EACH OBSERVATION.

DETAILS

- 1. FOUNDATION AND SLAB NOTES: SUB-GRADE PREPARATION INCLUDING DRAINAGE, EXCAVATION, COMPACTION AND FILLING REQUIREMENTS, SHALL CONFORM STRICTLY WITH RECOMMENDATIONS GIVEN BY THE GEOTECHNICAL TESTING AGENCY OR LOCAL BUILDING OFFICIAL AT THE TIME OF EXCAVATION.
FOOTINGS SHALL BEAR ON SOLID UNDISTURBED EARTH. CONTROLLED, COMPACTED STRUCTURAL FILL OR BOTH AT LEAST 18" BELOW LOWER ADJACENT FINISHED GRADE. FOOTING DIMENSIONS SHALL BE AS SHOWN ON PLANS OR IN DETAILS AND FINISH AND FOR GUIDANCE ONLY. THE ACTUAL ELEVATIONS OF FOOTINGS MUST BE ESTABLISHED BY THE CONTRACTOR IN THE FIELD BY WORKING WITH THE TESTING LAB OR BUILDING INSPECTOR. BACKFILL BEHIND ALL RETAINING WALLS WITH FREE DRAINING GRANULAR FILL AND PROVIDE FOR SUFFICIENT DRAINAGE.
ALLOWABLE SOIL PRESSURE: 8000 PSF (AS NOTED)
LATERAL EARTH PRESSURE (RESTRAINED/UNRESTRAINED): 60 PSF PER FOOT (AS NOTED)
FAVORABLE EARTH PRESSURE: 250 PSF (AS NOTED)
UNFAVORABLE EARTH PRESSURE: 80 (AS NOTED)
COEFFICIENT OF FRICTION: 0.33 (AS NOTED)

REVISIONS

2. CONTRACTOR SHALL CHECK FOR CONFLICT AT ALL EXTERIOR THEIR COMPONENTS. CONTRACTOR SHALL NOTIFY ENGINEER'S ARCHITECT OF ANY DRY NOT PARTICULARLY NEAR CONNECTION POINTS IN THE COLLAGE.

CONCRETE

- 3. CONCRETE SHALL BE THUSED, PROPORTIONED, COMPLETED AND PLACED IN ACCORDANCE WITH IBC SECTION 1905 AND ACI 308. CONCRETE SHALL ATTAIN A 28-DAY STRENGTH OF F_c - 3200 PSI AND MIX SHALL CONTAIN NOT LESS THAN 3% SACKS OF CEMENT PER CUBIC YARD AND 9% SHALL BE PROPORTIONED TO PRODUCE A SLUMP OF 3" OR LESS.
THE FINISH ADJUSTS OF CEMENT AND HAZARDOUS AMOUNTS OF WATER MAY BE CHANGED IF A PARALLEL TESTS ARE SUBMITTED TO THE STRUCTURAL ENGINEER AND THE BUILDING DEPARTMENT FOR APPROVAL. NO ADJUSTS PRIOR TO PLACING ARE ALLOWED. THE CONTRACTOR PERFORMANCE MIX SHALL INCLUDE THE PRODUCTS OF CEMENT AND COURSE AGGREGATE WATER AND AGGREGATES AS WELL AS THE WATER CEMENT RATIO, SLUMP, COMPACTED YIELD AND SUBSEQUENT STRENGTH DATA IN ACCORDANCE WITH ACI 308 SECTION 3.3. REVISIONS OF 0.01 BENTHICLES BY THE ENGINEER OF RECORD. LOCALS ONLY. THAT NOTIFICATION PROVIDED CONFORMS GENERALLY WITH CONTRACT DOCUMENTS. CONTRACTOR OR SUPPLIER VARIATIONS WILL BE RESPONSIBLE FOR SPECIFIED PERFORMANCE.
ALL CONCRETE WITH SURFACES EXPOSED TO STANDING WATER SHALL BE AIR ENTRAINING AGENT CONFORMING TO ASTM C666-06, PART 08A, C666-06, PART 08B, C666-06, PART 08C AND C666-06, PART 08D. AIR CONTENT SHALL BE IN ACCORDANCE WITH ACI 308 TABLE 4.4.

4. REINFORCING STEEL SHALL CONFORM TO ASTM A601 INCLUDING SUPPLEMENT B11 GRADE 60, F_y = 60,000 PSI. EXCEPTION: ANY BARS SPECIFICALLY NOTED ON THE DRAWINGS AS GRADE 40 ETC. IT - EXCEPT THE GRADES AND REINFORCING BARS INDICATED ON DRAWINGS TO BE USED SHALL CONFORM TO ASTM A601. REVISIONS OF ANY OTHER BARS MUST BE USED ONLY IF MATERIAL PROPERTY REPORTS INDICATING CONFORMANCE WITH BIDDING CONDITIONS SPECIFIED IN THIS SECTION ARE SUBMITTED.

WELDED REBAR SHALL CONFORM TO ASTM A-601.
REINFORCING STEEL SHALL BE DETAILED INCLUDING JOISTS AND BEARDS IN ACCORDANCE WITH ACI 308 4.6.6 (FOR DETAILING MANUAL) AND THE LATEST EDITION OF ACI 308. LAP ALL CONTIGUOUS REINFORCING BARS. BARS OVERLAP OR LAP FINISH REINFORCING BARS AT ALL WALL AND FOOTING INTERSECTIONS. LAP CORNER BARS 30 BAR DIAMETERS OR 7-2" MINIMUM LAP ADJACENT PLATS OF WELDED REBAR. A MINIMUM OF 8" AT BEARS AND ENDS.
NO BARS PARTIALLY EMBEDDED IN HARDED CONCRETE SHALL BE HELD BENT UNLESS SPECIFICALLY SO NOTED OR APPROVED BY THE STRUCTURAL ENGINEER.

5. CONCRETE PROTECTION COVER FOR REINFORCING STEEL SHALL BE AS FOLLOWS:

Table with 2 columns: Location and Cover Depth. Includes Footings and other unformed surfaces (earth face), Formed surfaces exposed to earth (e.g. walls below ground) or weather, Column ties or spirals and beam stirrups, and Slabs and walls (interior face).

- 11. CASE-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, RECESSES, ETC. COLOR, TEXTURE AND FINISH SHALL BE AS NOTED. ALL CONCRETE SURFACES SHALL BE CAREFULLY CURED AND PROTECTED.
12. EMBEDDED ITEMS IN CASE-IN-PLACE CONCRETE: EMBEDDED ITEMS IN CASE-IN-PLACE CONCRETE SHALL NOT BE SET-BIT UNLESS SPECIFICALLY APPROVED BY ENGINEER OF RECORD. THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO: REINFORCING STEEL, ANCHOR BOLTS, EMBEDDED BAR ANCHORS, EMBEDDED PLATES, OR OTHER IN-SITU STEEL. LOADS TO BE CAST INTO CONCRETE.
13. NON-SHAPE GREAT SHALL BE FURNISHED BY AN APPROVED MANUFACTURER AND SHALL BE PROVED AND PLACED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. NO CONSTRUCTION GREAT STRENGTH SHALL BE AT LEAST EQUAL TO THE MATERIAL ON WHICH IT IS PLACED (3000 PSI MINIMUM).
14. PRE-CAST/CAST-IN-PLACE CONCRETE SHALL BE GROUDED WITH HY-100 UNIFORM ANCHOR SYSTEMS AS MANUFACTURED BY HULL, INC. OR SET-NO HIGH STRENGTH ADHESIVE ANCHOR SYSTEM AS MANUFACTURED BY EPSON STRONG-TIE. OR AN ENGINEER APPROVED ALTERNATE THAT HAS LCC TEST DATA FOR THESE SPECIFIC PRODUCTS AND APPLICATION. INSTALL IN STRICT ACCORDANCE WITH LCC REPORTS FOR SPECIFIC PRODUCT. THESE NOTES CHIEFLY ON THE STRUCTURAL DRAWINGS. ANCHOR BOLT SHALL BE BY LARGER THAN BAR ROD OR BOLT SIZE. NOTE: NO WELDING IS TO TAKE PLACE WITHIN 24" OF HARDENED CONCRETE.

15. EXPANDED POLYMER CONCRETE SHALL BE REINFORCED WITH WELDED DEVIATION INSERTS INTO CONCRETE OR CONCRETE MASONRY UNIT SHALL BE REINFORCED WITH MASONRY UNITS AS MANUFACTURED BY HULL, INC. OR APPROVED EQUAL. WELDED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. NO CONSTRUCTION MASONRY PRESENTMENT REQUIREMENTS INFERS INTO CONCRETE MASONRY UNITS SHALL BE NOT FULLY GROUDED CELLS. SPECIAL INSPECTION IS REQUIRED FOR ALL EXPANSION BOLT AND INSERT INSTALLATION. ANCHORS SHALL HAVE A CORROSION RESISTANT COATING.

STEEL

22. STRUCTURAL STEEL DESIGN, FABRICATION AND ERECTION SHALL BE BASED ON THE AISC'S SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, LATEST EDITION PLUS ALL REFERENCED CODES.

23. STRUCTURAL STEEL SHALL CONFORM TO ASTM A500, FT + 36 KSI, FOR WIDE FLANGE SHAPES AND TO ASTM A570 + 36 KSI, FOR PLATES. MISCELLANEOUS ROLLED SHAPES AND ALL TREAD BARS, STEEL PIPE, SHALL CONFORM TO ASTM A53, TYPE E OR A GRADE B. FT + 36 KSI. STRUCTURAL TUBING (HSS, RHOSS, SQUARE OR RECTANGULAR TUBES) SHALL CONFORM TO ASTM A500, GRADE B WITH FT + 48 KSI, FOR RECTANGULAR SECTIONS AND FT + 42 KSI, FOR ROUND SECTIONS. ANCHOR BOLTS SHALL CONFORM TO ASTM F193, GRADE 36 TYPICAL AND GRADE 59 FOR HIGH-STRENGTH ANCHOR BOLTS WITH EXCESS PLATE WELDING AND DOUBLE END HIGH-STRENGTH CONNECTION BOLTS SHALL CONFORM TO ASTM A500, CONNECTION BOLTS SHALL CONFORM TO ASTM A500, GRADE 36 TYPICAL. ALL HIGH-STRENGTH ALL-THEAD ROD SHALL CONFORM TO ASTM A500, GRADE 36.

24. ARCHITECTURALLY FINISHED STRUCTURAL STEEL SHALL CONFORM TO SECTION 9 OF THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.

ALL WELDING SHALL BE IN CONFORMANCE WITH AISC AND AISC STANDARDS AND SHALL BE PERFORMED BY BARELY CERTIFIED WELDERS AND/OR BY OVER ELECTRICIAN. ONLY PRE-QUALIFIED WELDERS (AS DEFINED BY AWS) SHALL BE USED. WELDING OF GRADE 50 REINFORCING BARS (IF REQUIRED) SHALL BE PERFORMED USING LOW HYDROGEN ELECTRODES. WELDING OF GRADE 40 REINFORCING BARS (IF REQUIRED) SHALL BE PERFORMED USING LOW HYDROGEN ELECTRODES. REFER TO REINFORCING BARS FOR FURTHER REQUIREMENTS OF WELDED BARS. NOTE: NO WELDING IS TO TAKE PLACE WITHIN 24" OF HARDENED CONCRETE UNLESS OTHERWISE NOTED. ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES. ALL WELDING SHALL BE VISUALLY TESTED BY A QUALIFIED INSPECTOR IN ACCORDANCE WITH ALL COMPLETE PENETRATION WELDS SHALL BE TESTED USING THE ULTRASONIC METHOD AT THE PLAN OR BY A QUALIFIED INSPECTOR. VERIFY LOCATIONS WITH THE STRUCTURAL ENGINEER WHERE ULTRASONIC TESTING IS REQUIRED FOR PARTIAL PENETRATION WELDS.

WOOD

25. EXISTING LIFTERS SHALL BE KILN DRIED AND GRADED AND MARKED IN CONFORMANCE WITH U.S. STANDARD GRADING RULES FOR BEST QUALITY LUMBER NO. 1, LATEST EDITION FURNISH TO THE FOLLOWING MINIMUM SPECIFICATIONS AND/OR MINIMUM GRADES:

Table with 2 columns: Member Type and Specification. Includes Joists (2 x 10 members), Joists (2 x 12 members), Beams and Stringers (including 6 x 8 and larger members), Posts and Timbers (6 x 6 and larger), Studs, Plates, Miscellaneous Light Framing, Bolted Framing Studs, Ledgers and Plates, Pressure-Treated Framing, Ledgers and Plates.

27. FLOOR BRACING SHALL BE GRADE C-D, EXTERIOR GLEBE OR STRUCTURAL 1, EXTERIOR GLEBE IN CONFORMANCE WITH UDC 608. SEE PLANS FOR MEMBER PANEL, DISTRIBUTION, NICKS AND TAILING REQUIREMENTS.

28. ALL WOOD MEMBERS EXPOSED TO WEATHER OR IN DIRECT CONTACT WITH SOIL SHALL BE PRESURE-TREATED WITH ALKALINE COPPER QUATERNARY (ACQ). ALL WOOD MEMBERS (INCLUDING PLATES) IN DIRECT CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESURE-TREATED WITH BORAX/BORATE (BKB).

ALL METAL CONNECTIONS IN CONTACT WITH ACQ PRESURE-TREATED LUMBER SHALL BE TYPE 304 OR 316 STAINLESS STEEL. THIS INCLUDES WELDERS, BOLTS, WANGERS, AND ANY OTHER PROLONGATIONS. 1. GAGE METAL CONNECTIONS WHERE ACQ LUMBER IS USED IN NORMAL CONDITIONS, ONLY 1/2" GAGE GALVANIZED TO 30 GAGES PER SQUARE FOOT. METAL CONNECTIONS MAY BE USED IN LIES OF STAINLESS STEEL. METAL CONNECTIONS TO WOOD OR GREATER NEED NOT BE GALVANIZED FOR INTERIOR USE. METAL CONNECTIONS TO WOOD SHALL BE GALVANIZED FOR EXTERIOR USE. IN ALL CASES SPECIFIED OTHERWISE BY THE ARCHITECT.

29. TIE-RODS CONNECTIONS CALLED OUT BY LETTERS AND NUMBERS SHALL BE "STRONG-TIE" BY EPSON COMPANY, AS SPECIFIED IN THEIR CATALOG (NO. 300) EQUIVALENT DEVICES BY OTHER MANUFACTURERS THAT BE SUBSTITUTED. PROVIDED THEY HAVE CDO APPROVAL FOR EQUAL OR GREATER LOAD CAPACITY. PROVIDE NUMBER AND SIZE OF FASTENERS AS SPECIFIED BY MANUFACTURER. CONNECTIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. WARE CONNECTION STRAPS CONFORM TO PERFORM. PLACE ONE HALF OF THE NAILS OR BOLTS IN EACH MEMBER. ALL BOLTS IN WOOD MEMBERS SHALL CONFORM TO ASTM A307. PROVIDE WANGERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND WAS WANGERS BEHIND OR WOOD. UNLESS NOTED OTHERWISE, ALL NUTS SHALL BE BOTTOM ALL BARS SHALL BE SEASONED AND DRIED, AND THE SAME GRADE (MINIMUM) AS MEMBERS CONNECTED.
ALL JOISTS SHALL BE CONNECTED TO FLUSH BEAMS WITH 1" NERSE JOIST WANGERS. ALL DOUBLE OR TRIPLE JOIST BEAMS SHALL BE CONNECTED TO FLUSH BEAMS WITH 1" NERSE JOIST WANGERS.

30. HOLLOW COLUMNS SHALL BE INSTALLED AND FABRICATED BY THE EPSON COMPANY, AS SPECIFIED IN THEIR CATALOG (NO. 300) EQUIVALENT DEVICES BY OTHER MANUFACTURERS THAT BE SUBSTITUTED. PROVIDED THEY HAVE CDO APPROVAL FOR EQUAL OR GREATER LOAD CAPACITY. EACH EPSON HOLLOW COLUMN SHALL BE TESTED TO 1.5 TIMES OF FULL RATED LOADS. SEE SCHEDULE ON PLANS FOR FURTHER BUILD REQUIREMENTS. PROVIDE NUMBER AND SIZE OF FASTENERS AS SPECIFIED BY MANUFACTURER. ALL HOLLOW COLUMNS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. PROVIDE WANGERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND WAS WANGERS BEHIND OR WOOD.

31. WOOD FINISHING NOTES - THE FOLLOWING APPLY UNLESS OTHERWISE SHOWN ON THE PLANS:

- A. ALL WOOD FINISHING DETAILS NOT SHOWN OTHERWISE SHALL BE CONSTRUCTED TO THE MINIMUM STANDARDS OF THE INTERNATIONAL BUILDING CODE. MINIMUM NAIL USE, UNLESS OTHERWISE NOTED, SHALL CONFORM TO TABLE 2303.05A OF THE INTERNATIONAL BUILDING CODE. UNLESS NOTED OTHERWISE, ALL NAILS SHALL BE CORROSION RESISTANT. THE SIZE AND LOCATION OF ALL OPENINGS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS. PROVIDE WANGERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND WAS WANGERS BEHIND OR WOOD.
B. FLOOR AND ROOF BRACING: PROVIDE DOUBLE JOISTS UNDER ALL PARALLEL PARTITION THAT EXTEND MORE THAN ONE-HALF OF THE JOIST LENGTH AND AROUND ALL OPENINGS & JOISTS OR BEAMS UNLESS OTHERWISE NOTED. PROVIDE BRACING # 2 GLE AND SILD BLOODS AT ALL BEARING POINTS. COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
TORNAL JOISTS TO SUPPORTS WITH TWO NO. NAILS. ATTACH THESE JOISTS TO FLUSH BEAMS OR BEAMS WITH EPSON METAL JOIST WANGERS IN ACCORDANCE WITH NOTES ABOVE. ALL METAL JOIST BEAMS TOGETHER WITH NO. 2" GLE STAGGERED.

UNLESS OTHERWISE NOTED ON THE PLANS, FLOOR ROOF AND FLOOR BRACING SHALL BE LAD UP WITH GRAIN PERPENDICULAR TO SUPPORTS AND NUTTED WITH NO NAILS # 4 TO THREE FIVE FIVE EDGES AND OVERLAP SHALL AS SHOWN ON PLANS AND 4" OF GLE (2" FLOOR) TO INTERMEDIATE SUPPORTS. PROVIDE APPROVED TO WOOD EDGE CLIPS CENTERED BETWEEN JOISTS/STRIPS AT UNJOINED ROOF BRACING EDGES OR PROVIDE SOLID BLOODS. ALL FLOOR BRACING EDGES SHALL HAVE APPROVED TORSE AND GROOVE JOINTS. ALL BLOODS EDGES OR SHALL BE SUPPORTED WITH SOLID BLOODS. TORSE BLOODS TO PLATE WITH NO. 2 GLE OR 1" GLE (NO GLE) TO SUPPORTS UNLESS OTHERWISE NOTED. AT BLOCKED FLOOR AND ROOF DIAPHRAGMS, INSTALL FLAT 2" BLOODS AT ALL UNFINISHED PANEL EDGES AND NAIL WITH EDGE NAILING METHOD.

C. WALLS: MINIMUM DIAMETER AND LENGTH SHALL BE AS FOLLOWS:

Table with 2 columns: Sheathing Nails and Framing Nails. Includes Nail Size on Drawings or Details, Diameter and Length, and Nail Size.

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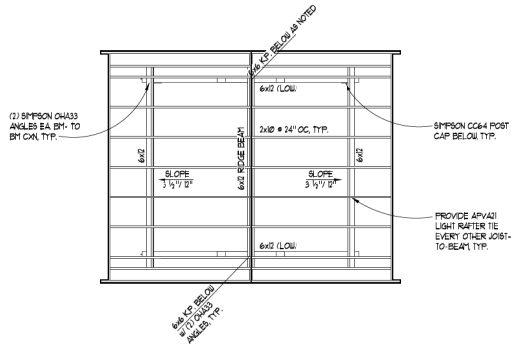
Table with 2 columns: Revision Number and Description. Includes 1-6-24 PERMIT SUBMITTAL.

GENERAL STRUCTURAL NOTES

CONTRACTOR SUPPLY

S1.0

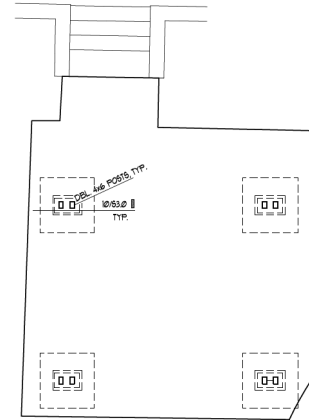
1/8" = 1'-0"



PLAN NOTES

1. NEW ROOF DIAPHRAGM SHALL BE 1/2" CDX PLYWOOD w/ MN PANEL INDEX OF 2418, WITH @12" x 25" NAILS AT:
 - 6"oc AT ALL DIAPHRAGM BOUNDARIES AND SHEAR WALLS
 - 6"oc AT ALL SUPPORTED PANEL EDGES (UNBLOCKED)
 - 12"oc AT FIELD

2 ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"



PLAN NOTES

1. [00] INDICATES NEW POST AND PAD FOOTING.
2. SEE SHEET 53.0 FOR TYPICAL CONCRETE DETAILS

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



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T-16-34 PERMIT SUBMITTAL

FIRST FLOOR /
FOUNDATION
PLAN

CONTRACTOR STAMP

S2.0

