| CITY OF MERCER ISLAND   | INSPECTION REQUEST  |  |  |  |  |  |  |
|---|---|--|--|--|--|--|--|
| DEVELOPMENT SERVICES GROUP<br>9611 SE 36TH STREET   MERCER ISLAND, WA 98040   | MyBuildingPermit.com  |  |  |  |  |  |  |
| PHONE: 206.275.7605   www.mercergow.org   | vakemail:<br>(206) 275-7730   |  |  |  |  |  |  |
| Meplar  | (206) 275+7730  |  |  |  |  |  |  |
| NOTE ALL RECORDS AND DRAWINGS ARE SUBJECT TO  | PUBLIC DISCLOSURE AS REQUIRED BY RCW 42.56                                    |  |  |  |  |  |  |
| Applicant is to complete the following information.   |   |  |  |  |  |  |  |
| Applicant Contact Information prior to permit issuance:   | Applicant Contact Information post permit Issuance:                           |  |  |  |  |  |  |
| Name: Richard Flake / RF Architecture   | Name: Richard Flake / RF Architecture   |  |  |  |  |  |  |
| Address: 7421 214th Ave E Borney Lake 86301   | Address: 7421 214th Ave E Bonney Lake, WA 98391                               |  |  |  |  |  |  |
| Phone: (253) 359-4039   | Phone: (253) 358-4039   |  |  |  |  |  |  |
| Email: richard@rfarchitecture.com   | Email: richard@rfarchitecture.com   |  |  |  |  |  |  |
| when special inspection or soluture observation is required, the<br>Inspection. Note: Inspection by the City Inspector is required in a<br>below. Do not cover or conceal any work prior to the City inspec |   |  |  |  |  |  |  |
| STRUCTURAL OBSERVATION BY ENGINEER OF RECORD (EOR)<br>Engineer of Record (Tarry Baldwin, PECo   | ):<br>mpany: B&T design & EngineeringPhone:(425) 503-1193                     |  |  |  |  |  |  |
| C General Conformance to Construction Documents   | Other   |  |  |  |  |  |  |
| SOILS / GEOTECHNICAL:<br>Special Inspector: Marc Marginnia Cou  | mpany Geolach Consultants Phone (425) 260-1116                                |  |  |  |  |  |  |
| Erosion control measures  | Subsurface drainage placement   |  |  |  |  |  |  |
| Shoring Installation and monitoring Observe and monitor excavation  | Rockery Installation  |  |  |  |  |  |  |
| Verification of soil bearing Otheri   | Pile placement (auger cast/driven pile)  Other:                               |  |  |  |  |  |  |
| REINFORCED CONCRETE:  |   |  |  |  |  |  |  |
|   | mpany AAR Phone: (425) 881-5812   |  |  |  |  |  |  |
| Concrete strength<br>Reinforcing steel and concrete placement   | Prestressed / Precast construction  |  |  |  |  |  |  |
| Shotzete placement Other:   | C Other:  |  |  |  |  |  |  |
| STRUCTURAL STEEL: NOT IN COMPANY  |   |  |  |  |  |  |  |
| Special Inspector:Co  | mpany:Phone:Phone:  |  |  |  |  |  |  |
| Structural steel erection, field welds and bolting Other:   | Other:  |  |  |  |  |  |  |
| STRUCTURAL MASONRY:   |   |  |  |  |  |  |  |
|   | mpany:Phone:  |  |  |  |  |  |  |
| Mortar strength Masonry unit strength   | Glass unit masonry installation Wall panel and veneer installation            |  |  |  |  |  |  |
| Other Other   | Other:  |  |  |  |  |  |  |
| WOOD:   |   |  |  |  |  |  |  |
| Special Inspector /<br>Engineer of Record-Barry Baldwin, PECo   | mpany:88TPhone:4255031193   |  |  |  |  |  |  |
| Lateral resisting system construction   | High strength diaphragm construction  |  |  |  |  |  |  |
| L) Others   | Other;  |  |  |  |  |  |  |
| OTHER SPECIAL INSPECTIONS:<br>Special Inspector: Not known yet Co   | mpam; AARPhone: 4288815812  |  |  |  |  |  |  |
| C Epoxy grout installations   | Stucco Installation   |  |  |  |  |  |  |
| Expansion anchor installations Other post installed anchors   | Infiltration System     Exterior Insulation Finish System (EIFS) Installation |  |  |  |  |  |  |
| Alternative construction methods:   | Other:  |  |  |  |  |  |  |
| The Applicant is required to select all deferred submittals / shop drawings for submittal to the City for review and approval prior to item   |   |  |  |  |  |  |  |
| fabrication / construction.  Connector plate wood trusses   | Post tension layout   |  |  |  |  |  |  |
| Mittel 1911 / metal trasses   | T Tytericir claidding   |  |  |  |  |  |  |
| Premanulactured structures (stairs, etc.)  Precast concrete elements  Other:  | Vindow wall / curtein wall construction                                       |  |  |  |  |  |  |
| LJ WINS   | C Other;  |  |  |  |  |  |  |
| indicate where the following information is located in the draw   | ing set. Alternatively, incorporate or include the Residential Energy Code    |  |  |  |  |  |  |
| Prescriptive Compliance [RECPC] Form into the drawing set.  |   |  |  |  |  |  |  |
| T Bullding and the second   | Air Lair and Testing  |  |  |  |  |  |  |
| Orchofe Unicone insulation and moleture control     Whole Missie ventilation: an analyze control     Article  | M Provide air leakage test report verifying air leakage rate                  |  |  |  |  |  |  |
| A 10.7  |   |  |  |  |  |  |  |
|   | M Duct Leakage Testing, entering  |  |  |  |  |  |  |
| Energy Credit Information and dust story if applicable)   | M Duct Leakage Testing, warmans   |  |  |  |  |  |  |
|   | M Duct Leakage Testing, entering  |  |  |  |  |  |  |

| -   | al from the City of Mercer   | Island, Approved plans   | must be kept on site and main  | construction rules and regulations, including:  |
|---|--|--|--|---|
|   | Site Considerations     Hours of Work     Construction Vehicle Par     Acess Road Requirement     for to "Preconstruction M     miporary site address with     solon control measures m     sor to the start of any site   | Ring Restrictions     Si   | DW restrictions<br>singe Requirements<br>wer Requirements<br>ater Service Requirements<br>ided at the preconstruction me-<br>hores visible from the street me<br>hores visible from the street me<br>proved project drawings. All en-  | construction nuclea and regulations, including<br>Additional File Code Requirements<br>Houring Requirements<br>Hourie Additionent Catification<br>Tree Requirements<br>eting for development (etable developments,<br>at be installed:<br>at be installed:<br>able control to be in place and inspected<br>6) 275-7783 for more information.  |
|   |  |  |  |   |
|   | ust remain in place throug<br>o trees shall be cut without<br>eplacement trees must be<br>1 for this project. N/A  | hout the project.<br>t a City of Mercer Islan<br>a minimum of six feet<br>trees are authorized to<br>ithin a protected eagli   | d tree permit.<br>tall at installation. They must b  | prior to start of any site work and<br>e planted and approved prior to final inspection.<br>N/A trees.<br>and Widdlife at (350) 534-9304 or visit their   |
|   | a Darmits are ramited for  | All fire protection we   | tems. For more information, se   | e http://www.mercenpoy.org/Page.asp7NaviD=2614  |
|   | re Sprinkler Western State   |  | Monitored Ho   | usehold   |
|   | NFPA 130   | e a hereda   | Fire Alarm per   | NFPA 72   |
| E   | Plus NFPA 13R  |  | Water Flow   | Alarm   |
| C.C.  | NFPA 13  |  | Other:   |   |
|   | pproved Fire Code Alternat<br>[FCA1  | uves   | FCA3   | and a final second state of the second  |
|   | ]FCA2  |  |  |   |
| 1   | JPC/2  |  |  |   |
| 0.201   | 11010210.010   | to dia mandri da   | d prior to determining water su  |   |
|   | City Installation.<br>Applicant Installation.<br>Required Service Une Sil<br>(water main to meter)   | (wate<br>rvice and meter regul   | r main to house)   | Required Meter Size: N/A  |
| Sector  | ressure reducing valve req<br>educed pressure backflow<br>r lake irrigation).  |  | ids 80 psl.<br>ired for all lots with waterfront   | or son-cty water supply [private wells  |
| Sector  | ressure reducing valve req<br>educed pressure backflow   |  | of s 80 psl.<br>ired for all lots with waterfront  | or non-city water supply (private wells   |
|   | ressure reducing valve req<br>educed pressure backflow<br>r lake irrigation),<br>dditional water supply req  | uirements:   | ds 80 psl.<br>ired for all lots with waterfront  |   |
|   | ressure reducing valve req<br>educed pressure backflow<br>ir lake irrigation),<br>dditional water supply req<br>dditional water supply req<br>in site detention system re<br>in site infiltration system re  | uirements:<br>quired,<br>equired,  | ds 80 psl.<br>Ired for all lots with waterfront  | ge into the lake  |
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| Code a Co  | In the second se   | ulrements:<br>   | det 80 p.6.     livest dischall         Direct di  | ge into the Isla<br>ter permit recuired.<br>2 public form drainage conveyance system require<br>en the elevation of the lowest plumbing finiture is<br>red with one or more properties.<br>mit required. — Reconnect permit required.<br>Liule three [3] days in advance with the City of<br>e submitted at the time of City foundation<br>Bidlags must be surveyed and the for. The City<br>Contribute of Coupany.<br>Phone:<br>Phone:<br>Inling single family dwelling to ensure no more the<br>b fullding inspector at (206) 275-7730.<br>requirements.<br>PERMITTED between October 1 and April 1<br>distions of the Greatechnical Report. A copy of<br>(425) 380-111 |
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|------------------------|---|---|--------------------|
| 2                      | Retto of way use or work of essement, material delivery, etc. If applicable,     esparate ROW semmi required     Land claring, grading and demolition     Temporary power     Retto of Social Applicable, provide survey letter     forstart in line; desenthrial Chargener / Social Inspector     resort al Inspections fully and shoring installation, etc.)     Forting, statusky, UERP ground, Happicable, provide survey letter     (building height and settack); Social Inspectors     resorts of Inspections fully and shoring installation, etc.)     Forting, statusky, UERP ground, Happicable, provide survey letter     (building height and settack); Social Inspectors reports of Inspections     isoib basing capacity, compaction, and whork, pile installation, etc.)     Fordination wals / concrete columns     Root and fording drains     Forting, including (but net limited to))     · Conceptions to storm     main in ROV     · Convegance sploing / cleanours  | CENTREATED OF OCCURPANCY<br>sound after all required inspections have been<br>performed and approved. |                    |
| TO BE COMPLETED BY DSG | Plateriol spectra     Deteriol spectra     Det | urray Residence   | 4803 Forest Ave SE |
| DSG                    | Insectors     Insection: Tree Restantion     Plani Insection: Tree Restantion     Plani Insection: Insection, including (but not limited to):     Section limit   | PROJECT M   | ADDRESS: 4803 For  |
| TO BE COMPLETED BY D   | Required inspection(s):         Contract:         Phone:         Scheduling:           Impact of a basis         PLANE ABSY TO Final Inspection or on provide and are due prior to Final Inspection or on plants         Not all review disciplines may be required to review the documents.           Impact fees apply and are due prior to Final Inspection or on plants         Not all review disciplines may be required to review the documents.         Not all review disciplines may be required to review the documents.           Impact fees apply and are due prior to Final Inspection or on plants         Not all review disciplines may be required to review the documents.           Impact fees apply and are due prior to Final Inspection or on plants         Not all review disciplines may be required to review the documents.   | APPROVED DRAWINGS MUST BE KEP<br>ON THE BUILDING SITE AT ALL TIMES                                    |                    |

ą.

PROJECT ADDRESS: 4803 Forest Ave SE

FILE NAME: DSG CVR 2016 24x36.PDF

AN APPROVED 10 MIL. VAPOR BARRIER SHALL BE INSTALLED AT EXTERIOR WALLS AND AT ROOF DECKS, BELOW ENCLOSED JOIST SPACES WHERE CEILING FINISHES ARE DIRECTLY INSTALLED TO JOIST, AND ANY OTHER WALL OR CEILING SURFACES WHICH RECEIVE INSULATION. THIS VAPOR BARRIER MAY BE A COMPONENT OF THE INSULATION MATERIAL. APPLICATION AND INSTALATIONS OF THE INSULATION AND VAPOR BARRIERS SHALL COMPLY WITH STAT OF WASHINGTION THERMAL UNSULATION STANDARDS (HB %)

# ATTIC DETAILS.

ATTIC VENTILATION: THE TOTAL NET FREE VENTILATION AREA SHALL NOT BE LESS THAN 1/150 OF THE AREA OF THE SPACE VENTILATED EXCEPT THAT REDUCTION OF THE TOTAL AREA TO 1/300 IS PERMITTED PROVIDED THAT AT LEAST 50% AND NOT MORE THAN 80% OF THE REQUIRED VENTILATING AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED AT LEAST 3 FEET ABOVE THE EAVE OR CORNICE VENTS, AS AN ALTERNATE, THE NET FREE CROSS VENTILATION AREA MAY BE REDUCED TO 1/300 WHEN A CLASS I OR II VAPOR BARRIER IS INSTALLED ON THE WARM-IN-WATER SIDE OF THE CEILING (IRC 2015, SECTION R806.2)

APPLY ROOFING IN ACCORDANCE WITH IRC 2015, SECTION R905, PROVIDE ATTIC VENTILATION AS INDICATED ON ROOF FRAMING PLANS/ROOF

ALL GLAZING IN A DOOR OR WITHIN 12" OF DOOR, OR WITHIN 18" OF FLOOR OR WITHIN 60" OF TUB FLOOR, OR ANY OTHER HAZARDOUS AREA PER CODE, TO BE TEMPERED SAFETY GLASS. 20 MIN., SELF-CLOSING DOOR W/ WEATHER STRIPPING REQUIRED AT GARAGE ENTRANCE TO LIVING SPACE.

ALL WINDOWS TO BE DOUBLE-GLAZED WITH A MINIMUM U-VALUE OF 0. 30 OR BETTER.

IN EACH SLEEPING ROOM AN EGRESS WINDOW OR DOOR SHALL BE PROVIDED THAT HAS 5.7 S.F. OF CLEAR NET OPERABLE AREA. THE SMALLEST CLEAR MIN. DIMENSION SHALL NOT BE LESS THAN 20" IN WIDTH OR 24" IN HEIGHT. WINDOW SILLS IN SLEEPING ROOMS NOT TO EXCEED 44" ABOVE FLOOR PER 2012 IRC, R310 & 310.1.

WINDOWS / DOORS

R312.2.1.

GLAZING

OF THE MINIMUM ENERGY SAVINGS.

5b - EFFICIENT WATER HEATING 5b:

COMPLIANCE BASED ON R402.4.1.2: REDUCE THE TESTED AIR LEAKAGE TO 4.0 AIR CHANGES PER HOUR MAXIMUM ALL WHOLE HOUSE VENTILATION REQUIREMENTS AS DETERMINED BY SECTION M1507.3 OF THE INTERNATIONAL RESIDENTIAL CODE SHALL BE MET WITH A HIGH EFFICIENCY FAN (MAXIMUM 0.35 WATTS/CFM), NOT INTERLOCKED WITH THE FURNACE FAN. VENTILATION SYSTEMS USING A FURNACE INCLUDING AN ECM MOTOR ARE ALLOWED, PROVIDED THAT THEY ARE CONTROLLED TO OPERATE AT LOW SPEED IN VENTILATION ONLY MODE. TO QUALIFY TO CLAIM THIS CREDIT. THE BUILDING PERMIT DRAWINGS SHALL SPECIFY THE OPTION BEING SELECTED AND SHALL SPECIFY THE MAXIMUM TESTED BUILDING AIR LEAKAGE AND SHALL SHOW THE HEAT RECOVERY VENTILATION SYSTEM.

WOOD FRAME WALL R-21 INT PLUS R-12 CI FLOOR R-38 BASEMENT WALL R-21 INT PLUS R-12 CI SLAB ON GRADE R–10 PERIMETER AND UNDER ENTIRE SLAB BELOW GRADE SLAB R-10 PERIMETER AND UNDER ENTIRE SLAB COMPLIANCE BASED ON SECTION R402.1.4: REDUCE THE TOTAL UA BY 30%. 2.0 2g - AIR LEAKAGE CONTROL AND EFFICIENT VENTILATION 2g:

COMPLIANCE BASED ON SECTION R402.1.4: REDUCE THE TOTAL UA BY 15%. 1.0 1c EFFICIENT BUILDING ENVELOPE 1c: PRESCRIPTIVE COMPLIANCE IS BASED ON TABLE R402.1.1 WITH THE FOLLOWING MODIFICATIONS: FENESTRATION U .= 0.22 CEILING AND SINGLE-RAFTER OR JOIST-VAULTED R-49 ADVANCED

WALL R-21 PLUS R-4 FLOOR R-38 BASEMENT WALL R-21 INT PLUS R-5 ( SLAB ON GRADE R-10 PERIMETER AND UNDER ENTIRE SLAB BELOW GRADE SLAB R–10 PERIMETER AND UNDER ENTIRE SLAB

PRESCRIPTIVE COMPLIANCE IS BASED ON TABLE R402.1.1 WITH THE FOLLOWING MODIFICATIONS: FENESTRATION U .= 0.25

FLOOR R-38 SLAB ON GRADE R-10 PERIMETER AND UNDER ENTIRE SLAB BELOW GRADE SLAB R-10 PERIMETER AND UNDER ENTIRE SLAB COMPLIANCE BASED ON SECTION R402.1.4: REDUCE THE TOTAL UA BY 5%. 0.5 1b - EFFICIENT BUILDING ENVELOPE 1b:

TABLE 406.2 - ENERGY CREDITS (DEBITS) OPTION DESCRIPTION CREDIT(S) 1a - EFFICIENT BUILDING ENVELOPE 1a: PRESCRIPTIVE COMPLIANCE IS BASED ON TABLE R402.1.1 WITH THE FOLLOWING MODIFICATIONS: FENESTRATION U .= 0.28

LESS THAN 300 SQUARE FEET OF FENESTRATION AREA. ADDITIONS TO EXISTING BUILDING THAT ARE LESS THAN 750 SQUARE FEET OF HEATED FLOOR AREA. . MEDIUM DWELLING UNIT: ...... 1.5 POINTS ALL DWELLING UNITS THAT ARE NOT INCLUDED IN #1 OR #3. THE DRAWINGS INCLUDED WITH THE BUILDING PERMIT APPLICATION SHALL IDENTIFY WHICH OPTIONS HAVE BEEN SELECTED AND THE POINT VALUE OF EACH OPTION, REGARDLESS OF WHETHER SEPARATE MECHANICAL, PLUMBING, ELECTRICAL, OR OTHER PERMITS ARE UTILIZED FOR THE PROJECT.

SECTION R406 ADDITIONAL ENERGY EFFICIENCY REQUIREMENTS R406.1 SCOPE. THIS SECTION ESTABLISHES OPTIONS FOR ADDITIONAL CRITERIA TO BE MET FOR ONE- AND TWO-FAMILY DWELLINGS AND TOWNHOUSES, AS DEFINED IN SECTION 101.2 OF THE INTERNATIONAL RESIDENTIAL CODE TO DEMONSTRATE COMPLIANCE WITH THIS CODE. R406.2 ADDITIONAL ENERGY EFFICIENCY REQUIREMENTS (MANDATORY). EACH DWELLING UNIT IN ONE- AND TWO-FAMILY DWELLINGS AND TOWNHOUSES, AS DEFINED IN SECTION 101.2 OF THE INTERNATIONAL RESIDENTIAL CODE SHALL COMPLY WITH SUFFICIENT OPTIONS FROM TABLE R406.2 SO AS TO ACHIEVE THE FOLLOWING MINIMUM NUMBER OF CREDITS: 2015 WASHINGTON STATE ENERGY CODE RE-33

CONTROL AND A MOTION SENSOR PER 2012 IRC. IRC, R404.1.

ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED WOOD OR ANY SPECIES OR FOUNDATION GRADE CEDAR OR REDWOOD, ALL MARKED BY AN APPROVED TESTING AGENCY. PROVIDE 90# FELT BETWEEN POSTS & CONCRETE. PROVIDE DRAFT STOPS, FIRE BLOCKING, AND FIRESTOPS AS REQUIRED BY CODE. FLASHING AND COUNTER FLASHING TO BE MIN. 24 GAUGE OF CORROSION- RESISTANT METAL, AND SHALL BE INSTALLED IN COMPLIANCE WITH LOCAL BUILDING CODES AND MANUFACTURES RECOMMENDATIONS. GENERAL CONTRACTOR SHALL PROVIDE BLOCKING FOR ALL WALL-MOUNTED HARDWARE, TOILET ACCESSORIES, TOWEL BARS, LIGHT FIXTURES, BUILT-INS, ETC..., AS REQUIRED FOR SECURE AND PROPER INSTALLATION. ALL INTERIOR WALLS & CEILINGS SHALL HAVE 1/2" GYP. BD. APPLICATION INSTALLATIONS OF INSULATION AND VAPOR BARRIERS SHALL COMPLY WITH STATE OF WASHINGTON THERMAL INSULATION STANDARDS (HB 98).

ALL WOOD AND SONITUBE FORMS USED FOR CONCRETE IN THE GROUND OR BETWEEN FOUNDATION SILLS & THE GROUND SHALL BE REMOVED.

ENERGY ALL MATERIALS, WORKMANSHIP AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE IRC 2012 AND THE WASHINGTON STATE ENERGY CODE, LATEST EDITION. VERIFY ALL CONDITIONS BEFORE PROCEEDING WITH WORK ...

THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT/DESIGNER AND MAY BE REPRODUCED ONLY WITH THE WRITTEN PERMISSION OF THE ARCHITECT/DESIGNER. AUTHORIZED REPRODUCTIONS MUST BEAR THE NAME OF THE ARCHITECT/DESIGNER. COPYRIGHT 2015 BY DME CONSTRUCTION. THESE DRAWINGS ARE FULLY PROTECTED BY FEDERAL AND STATE COPYRIGHT LAWS. ANY INFRINGEMENT WILL BE

GENERAL NOTES

CONTRACTORS RESPONSIBILITY

DRAWINGS GENERAL CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH WORK. DO NOT SCALE DRAWINGS. NOTIFY ARCHITECT CONCERNING QUESTIONS, CHANGES, CONFLICTS OR OMISSIONS. IN THE EVENT OF CONFLICTS OR CHANGES BETWEEN DETAILS OR BETWEEN THE PLANS AND SPECIFICATIONS, NOTIFY ARCHITECT IMMEDIATELY. OBTAIN CLARIFICATION BEFORE PROCEEDING.

N/A

SOILS

FRAMING, UNLESS OTHERWISE INDICATED.

OPENINGS, ARCHITECTURAL REQUIREMENTS AND DIMENSIONS.

PROCEDURES REQUIRED TO PERFORM THIS WORK.

OR REDWOOD, ALL MARKED BY AN APPROVED TESTING AGENCY.

PROVIDE DRAFT STOPS, FIRE BLOCKING, AND FIRESTOPS AS REQUIRED BY CODE.

ALL INTERIOR WALLS & CEILINGS SHALL HAVE 5/8" TYPE 'C' GYP. BD. (FIRECODE C CORE).

PROVIDE A UL RATED "CLASS A" FIRE RESISTANT ROOFING MEMBRANE WHERE APPLICABLE.

VAPOR BARRIER BELOW SLABS ON GRADE TO BE 6 MIL POLYETHYLENE, PER SPECIFICATIONS.

WITH A NONABSORBENT SURFACE A MINIMUM OF 6' ABOVE THE FLOOR PER 2012 IRC, R307.2.

PROVIDE R-30 BATT INSULATION OVER UNHEATED SPACE, UNLESS NOTED OTHERWISE.

CONTINUAL THROUGH VENTING INTO THE ADJACENT JOIST SPACE.

INSULATED WITH R-21 BATT (FOR 2x6 WALLS) AND R-21 SPRAY (FOR 2x4 WALLS), UNLESS NOTED OTHERWISE.

WITH LOCAL BUILDING CODES AND MANUFACTURES RECOMMENDATIONS.

BUILT-INS, ETC..., AS REQUIRED FOR SECURE AND PROPER INSTALLATION.

FOAM INSULATION IN MAIN FLOOR CEILING AND FLOOR OVER OCCUPIED SPACE.

ALL EXTERIOR DECKS TO BE CONSTRUCTED WITH PRESSURE TREATED WOOD.

PROVIDE 1 HR. FIRE RATED ASSEMBLY BETWEEN GARAGE AND LIVING SPACE.

ALL COUNTERS TO BE 36" A.F.F. UNLESS OTHERWISE NOTED.

IN ACCORDANCE WITH 2012 IRC, SECTION R312.

PROVIDE 90# FELT BETWEEN POSTS & CONCRETE.

INSTRUCTIONS PREPARED BY THE SUPPLIER.

CONDITIONS ARE ENCOUNTERED.

PERVIOUS PAVERS

MATERIALS / ASSEMBLIES

BUILDING AND FIRE CODES

AS REQUIRED.

REMOVED.

WALLS

FLOORS

ROOFS AND CEILINGS

SLAB ON GRADE

VAPOR BARRIER

TIE SLAB AND FOOTING TOGETHER.

N/A

BEGINNING WORK TO AVOID UNREASONABLE DELAYS TO THE SCHEDULE.

THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE ARCHITECT/DESIGNER IF UNUSUAL, UNFORESEEABLE, OR UNEXPECTED SUBSURFACE CONDITIONS ARE ENCOUNTERED.

THE TYPICAL EXTERIOR DIMENSIONS ARE TO FACE OF CONCRETE AND/OR FACE OF FRAMING. INTERIOR DIMENSIONS ARE TO FACE OF

ARE NOT SPECIFICALLY INDICATED BUT ARE SIMILAR IN CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE

USED, SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER. REFER TO ARCHITECTURAL DRAWINGS FOR

INFORMATION CONTAINED WITHIN THESE DRAWINGS WITH REGARD TO EXISTING CONDITIONS IS PROVIDED FOR THE CONVENIENCE OF THE

ALL DRAWINGS OF EXISTING CONDITIONS ARE FOR REFERENCE ONLY, ALL EXISTING CONDITIONS SHALL BE FIELD VERIFIED.

CONTRACTOR TO VERIFY ALL DIMENSIONS AND STRUCTURAL MEMBER SIZES PRIOR TO CONSTRUCTION.

CONTRACTOR TO INFORM ARCHITECT/DESIGNER OF ANY DISCREPANCIES IN THE DRAWINGS OR FROM THE CODES.

CONTRACTOR INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT/DESIGNER AND STRUCTURAL ENGINEER FOR

APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES SHOWN ON THE DRAWINGS ONLY WILL NOT SATISFY THE REQUIREMENT.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED, ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNICAL, SEQUENCES OR

ALL STRUCTURAL SYSTEMS SUCH AS WOOD TRUSSES WHICH ARE TO BE COMPOSED OF COMPONENTS TO BE FIELD ERECTED SHALL BE

THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE ARCHITECT/DESIGNER IF UNUSUAL, UNFORESEEABLE, OR UNEXPECTED SUBSURFACE

CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL WORK AND MATERIALS IN ACCORDANCE WITH ALL APPLICABLE COUNTY, LOCAL

ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED WOOD OR ANY SPECIES OR FOUNDATION GRADE CEDAR

FLASHING AND COUNTER FLASHING TO BE MIN. 24 GAUGE OF CORROSION- RESISTANT METAL, AND SHALL BE INSTALLED IN COMPLIANCE

GENERAL CONTRACTOR SHALL PROVIDE BLOCKING FOR ALL WALL-MOUNTED HARDWARE, TOILET ACCESSORIES, TOWEL BARS, LIGHT FIXTURES,

PROVIDE AN APPLICATION OF JOHN MANVILLE IGNITION BARRIER COATING AS AN IGNITION BARRIER OVER OPEN AND CLOSED-CELL SPRAY

MINIMUM STAIRWAY REQUIREMENTS ARE AS FOLLOWS: 36" MIN. WDTH, 6'-8" MIN. HEADROOM, 8" MAX. RISE AND 9" MIN. RUN FOR (4) OR

MORE RISERS. PROVIDE A HANDRAIL 34"-38" A.F.F. HAND GRIP PORTION TO BE CONTINUOUS AND 1 1/4"-2" IN CROSS SECTION WITH BOTH

ENDS RETURNED. THERE SHALL BE A SPACE OF NOT LESS THAN 1 1/2" BETWEEN THE WALL AND THE HANDRAIL. GUARD RAILS SHALL BE

BATHTUB, SHOWER FLOORS AND WALLS ABOVE BATHTUBS WITH INSTALLED SHOWER HEADS AND SHOWER ENCLOSURES SHALL BE FINISHED

INSULATED WITH R-49 BATT, UNLESS NOTED OTHERWISE. PROVIDE INSULATION IN CEILING WHERE POSSIBLE AND IN RAFTERS IF VAULTED

FOR VENTING. VENTING MUST OCCUR IN EACH JOIST SPACE. WHERE CONTINUOUS VENTING WITHIN A JOIST SPACE IS INTERUPTED BY A

CEILING USE R-38 BATT, IF CONDITION EXISTS, MAINTAIN A MIN. OF 1" CLEAR BETWEEN TOP OF INSULATION AND BOTTOM OF SHEATHING

HEADER (I.E. SKYLIGHT OR AT HIP END), PROVIDE (2) H/2" VENTING HOLES AT THE TOP OF THE RAFTER AT THE HEADER TO ALLOW FOR

PROVE EXTRUDED RIGID CLOSE CELL INSULATION R-10. INSULATION TO PROVIDE THERMAL BREAK BETWEEN SLAB AND FOOTING AND RUN

FROM TOP OF SLAB TO THE BOTTOM OF FOOTING. INSULATION MAY BE INTERRUPTED FOR 6" EVERY 2'-0" TO ALLOW FOR DOWELING TO

ALL WOOD AND SONITUBE FORMS USED FOR CONCRETE IN THE GROUND OR BETWEEN FOUNDATION SILLS & THE GROUND SHALL BE

SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE AND ERECTION IN ACCORDANCE WITH THE

GENERAL CONTRACTOR. ALL ATTEMPTS HAVE BEEN MADE TO ACCURATELY REPRESENT THE EXISTING BUILDING AND SURROUNDINGS VIA

OWNER SUPPLIED AS-BUILTS AND FIELD VERIFICATION. THE GENERAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO

SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE AND ERECTION IN ACCORDANCE WITH THE INSTRUCTIONS PREPARED BY THE SUPPLIER.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED, ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNICAL, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THIS WORK. ALL STRUCTURAL SYSTEMS SUCH AS WOOD TRUSSES WHICH ARE TO BE COMPOSED OF COMPONENTS TO BE FIELD ERECTED SHALL BE

CONTRACTOR TO INFORM ARCHITECT/DESIGNER OF ANY DISCREPANCIES IN THE DRAWINGS OR FROM THE CODES. CONTRACTOR INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT/DESIGNER AND STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES SHOWN ON THE DRAWINGS ONLY WILL NOT SATISFY THE REQUIREMENT.

CONTRACTOR TO VERIFY ALL DIMENSIONS AND STRUCTURAL MEMBER SIZES PRIOR TO CONSTRUCTION.

FACE OF FRAMING IS TO BE FLUSH WITH FACE OF CONCRETE, UNLESS OTHERWISE INDICATED.

DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS

\* 2015 INTERNATIONAL PLUMBING CODE \* 2015 INTERNATIONAL FIRE CODE

VIGOROUSLY PROSECUTED. THIS PROJECT SHALL COMPLY WITH THE FOLLOWING CODES: \* 2015 INTERNATIONAL RESIDENTIAL CODE \* 2015 WASHINGTON STATE ENERGY CODE \* 2015 INTERNATIONAL MECHANICAL CODE

PROVIDE A UL RATED "CLASS A" FIRE RESISTANT ROOFING MEMBRANE WHERE APPLICABLE.

FLOOR INSULATION SHALL BE INSTALLED TO MAINTAIN PERMANENT CONTACT WITH THE UNDERSIDE OF THE SUBFLOOR DECKING. INSULATION SUPPORTS SHALL BE INSTALLED SO SPACING IS NO MORE THAN 24" O.C. FOUNDATION VENTS SHALL BE PLACED SO THAT THE TOP OF THE VENT IS BELOW THE LOWER SURFACE OF THE FLOOR INSULATION PER 2012 IRC, R402.2.7.

PROVIDE AN EAVE BAFFLE FOR AIR PERMEABLE INSULATION IN THE VENTED ATTIC MAINTAINING AN OPENING EQUAL OR GREATER THAN THE SIZE OF THE VENT EXTENDING OVER THE TOP OF THE INSULATION PER 2012 IRC, R402.2.3. PROVIDE AND SPECIFY HIGH-EFFICIENCY FIXTURES FOR ALL OUTDOOR LIGHTING ATTACHED TO THE BUILDING OR PROVIDE PHOTO DAYLIGHT

PROVIDE AND SPECIFY THAT 75% OF PERMANENTLY INSTALLED LAMPS IN LIGHTING FIXTURES SHALL BE HIGH-EFFICIENCY LAMPS PER 2015

3a - HIGH EFFICIENCY HVAC EQUIPMENT 3a: GAS, PROPANE OR OIL-FIRED FURNACE WITH MINIMUM AFFUE OF 95% OR GAS, PROPANE OR OIL-FIRED BOILER WITH MINIMUM AFUE OF 92%. TO QUALIFY TO CLAIM THIS CREDIT, THE BUILDING PERMIT DRAWINGS SHALL SPECIFY THE OPTION BEING SELECTED AND SHALL SPECIFY THE HEATING EQUIPMENT TYPE AND THE MINIMUM EQUIPMENT EFFICIENCY.

WATER HEATING SYSTEM SHALL INCLUDE ONE OF THE FOLLOWING: GAS, PROPANE OR OIL WATER HEATER WITH MINIMUM EF OF 0.82 ELECTRIC HEAT PUMP WATER HEATER WITH A MINIMUM EF OF 2.0 AND MEETING THE STANDARDS OF NEEA'S NORTHERN CLIMATE SPECIFICATIONS FOR HEAT PUMP WATER HEATERS

WATER HEATER HEATED BY GROUND SOURCE HEAT PUMP MEETING THE REQUIREMENTS OF OPTION 3c. TO QUALIFY TO CLAIM THIS CREDIT, THE BUILDING PERMIT DRAWINGS SHALL SPECIFY THE OPTION BEING SELECTED AND SHALL SPECIFY THE WATER HEATER EQUIPMENT TYPE AND THE MINIMUM EQUIPMENT EFFICIENCY AND, FOR SOLAR WATER HEATING SYSTEMS, THE CALCULATION

PROVIDE AT LEAST ONE EGRESS DOOR THAT IS SIDE HINGED WITH A MINIMUM CLEAR OPEN WIDTH OF 32" (36" WIDE DOOR) AND MINIMUM CLEAR HEIGHT OF NOT LESS THAN 78" PER 2012 IRC. R311.2.

WINDOW SILLS - WHERE THE OPENING OF AN OPERABLE WINDOW IS LOCATED MORE THAN 72" ABOVE FINISHED GRADE OR SURFACE BELOW, THE SILL SHALL BE A MINIMUM OF 24" ABOVE THE FINISHED FLOOR OF THE ROOM IT IS IN. OPERABLE SECTIONS OF WINDOWS SHALL NOT PERMIT OPENINGS THAT ALLOW PASSAGE OF 4' DIAMETER SPHERE WHERE OPENINGS ARE WITHIN 24" OF THE FLOOR PER 2015 IRC,

SKYLIGHT GLAZING MATERIAL TO MEET ALL REQUIREMENTS PER 2012 IRC, R308.6.2.

PROVIDE MINIMUM 4" CURB HEIGHT FOR SKYLIGHTS PER 2012 IRC, R308.6.8.

TO BE IN COMPLIANCE WITH IRC 2015, SECTION R308 AND WASHINGTON STATE SAFETY OR TEMPERED GLASS. EXCEPTIONS ARE AS OUTLINED IN IRC 2015, SECTION R308.4, HAZARDOUS LOCATIONS ARE: 1. GLAZING IN ALL FIXED AND PREAMBLE PANELS OF SWINGING, SLIDING AND BI-FOLD DOORS. 2. GLAZING IN ALL INDIVIDUAL FIXED OR OPERABLE PANEL ADJACENT TO A DOOR WHERE THE NEAREST VERTICAL EDGE IS WITHIN A 24"

POSITION AND WHOSE BOTTOM EDGE LUUK UK WALKING SUKFAUE. 3. GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL THAT MEETS ALL OF THE FOLLOWING CONDITIONS: 3.1 THE EXPOSED AREA OF AN INDIVIDUAL PANE IS LARGER THAN 9 S.F.

3.2 THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 18" ABOVE THE FLOOR.

3.3 THE TOP EDGE OF THE GLAZING IS MORE THAN 36" ABOVE THE FLOOR ..

3.4 ONE OR MORE WALKING SURFACES ARE WITHIN 36", MEASURED HORIZONTALLY AND IN A STRAIGHT LINE OF THE GLAZING. 4. ALL GLAZING IN RAILINGS REGARDLESS OF AREA OR HEIGHT ABOVE A WALKING SURFACE. INCLUDED ARE STRUCTURAL BALLUSTER PANELS AND NONSTRUCTURAL INFILL PANELS.

5. GLAZING IN ENCLOSURES FOR OR WALLS FACING HOT TUBS, WHIRLPOOLS, SAUNAS, STEAM-ROOMS, BATHTUBS AND SHOWERS WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60" MEASURED VERTICALLY ABOVE ANY STANDING OR WALKING SURFACE.

ATTIC ACCESS OPENING MUST BE PROVIDED FOR ALL ATTIC AREAS THAT EXCEED 30 S.F. AND HAVE A VERTICAL HEIGHT OF 30' OR GREATER. ROUGH FRAMED OPENING MIN. 22"x30". ACCESS TO BE UNOBSTRUCTED AND READILY ACCESSIBLE. WHEN LOCATED IN A CEILING, MIN. 30' UNOBSTRUCTED HEADROOM AT SOME POINT ABOVE THE ACCESS MEASURED VERTICALLY FROM THE BOTTOM OF CEILING FRAMING MEMBERS (IRC 2015, SECTION R807.1)

VENTILATION

- PROVIDE PROPER ROOF & CRAWL SPACE VENTILATION PER 2015 IRC. VENT DRYER TO OUTSIDE PER MECHANICAL CODE

- VENT ALL FANS TO OUTSIDE W/ 3' MIN. SEPARATION TO BUILDING OPENINGS. - VENT HOT WATER TANK TO EXPANSION TANK.

- VENT DISHWASHER AT SINK.

EXHAUST MINIMUMS: PROVIDE SOURCE SPECIFIC INTERMITTENT OPERATION EXHAUST FANS WITH THE FOLLOWING MINIMUM STANDARDS:

BATHROOMS: 80 CFM LAUNDRY ROOM: 190 CFM KITCHEN HOODS & DOWNDRAFTS: 400 CFM

PROVIDE WHOLE HOUSE VENTILATION SYSTEM SO AS TO CONFORM WITH STATE VENTILATION AND INDOOR AIR CODE.

- CURRENT EDITION AND SHALL BE CAPABLE WITH THE FOLLOWING MINIMUM STANDARDS: - BE SIZED ACCORDING TO TABLE 3—2 WSEC AT 0.25" W.G. & SOUND RATED AT 1.5 SONES MAX... BE CONTROLLED BY READILY ACCESSIBLE 24 HR TIMER CAPABLE OF CONTINUOUS

OPERATION WITH MANUAL & AUTOMATIC CONTROL

- INSULATED DUCTS SIZED TO MIN. R-4 & TERMINATED OUTSIDE BUILDING.

ALL UNITS WILL BE SEALED COMBUSTION DIRECT VENTS. THEY WILL HAVE TWO PVC VENTS OFF EACH UNIT, ONE EXHAUST AND ONE

COMBUSTION.

DRYERS ON BOTH FLOORS WILL GO DOWN THROUGH THE FLOOR IN JOIST BAY AND OUT TO RIM. THEY WILL HAVE ONE ELBOW AND BE 12' LONG.

CRAWL VENTILATION

TOTAL CUBIC FEET DIVIDED BY 15.124 CFM CONTINUOUSLY RUNNING. TWO FANTECH FG-8 IN-LINE FANS, ONE INTAKE AND ONE EXHAUST.

MECHANICAL & ELECTRICAL

ALL WASTE LINES TO BE INSULATED WITH ACOUSTIC INSULATION. CAST IRON PIPING AT KEY LOCATIONS PER PLAN.

ELECTRICAL WIRING SHALL CONFORM TO THE 2015 WASHINGTON STATE ELECTRICAL CODE.

INSTALL OUTLETS AND SWITCHES AT HEIGHTS AND LOCATIONS REQUIRED BY 2015 IRC AND THE 2015 WASHINGTON STATE ELECTRICAL CODE. LIGHTING WATTAGE SHALL MEET THE 2015 WASHINGTON STATE ELECTRICAL CODE.

PROVIDE SMOKE DETECTORS TO MEET THE 2015 IRC AND 2015 INTERNATIONAL FIRE CODE. SMOKE DETECTORS SHALL BE HARD WIRED AND EQUIPPED WITH BATTERY BACK UP. SMOKE DETECTORS SHALL SOUND AN ALARM THAT IS AUDIBLE THROUGH OUT THE BUILDING. SMOKE DETECTORS SHALL BE PLACES AT LEAST ON PER LEVEL, ONE IN EACH SLEEPING ROOM, ONE IN HALLWAY GIVING ACCESS TO THE SLEEPING ROOMS.

PROVIDE CARBON MONOXIDE DETECTORS AT ALL LEVEL PER 2015 IRC.

INSTALL A MONITORED NFPA 72 LOW VOLTAGE FIRE ALARM SYSTEM WITH HEAT SENSOR IN THE GARAGE. MONITORING COMPANY TO BE LICENSED AND BONDED.

INSTALL AN EXTERIOR SIREN CONNECTED INTO THE ALARM SYSTEM.

VERTICAL DISTANCE BETWEEN COOK TOP OF RANGE AND HOOD SHALL BE NO LESS THAN 30".

HOT WATER HEATER SHALL BE ANCHORED OR STRAPPED FOR EARTHQUAKE AND PLACED ON R-10 PAD IF LOCATED IN UNHEATED SPACE OR CONCRETE FLOOR.

PROVIDE COMBUSTION AIR FOR FURNACE PER CODE.

FURNACE AND WATER HEATER WITH IGNITION SOURCE SHALL BE ELEVATED SUCH THAT THE SOURCE OF IGNITION IS NOT LESS THAN 18" PER IRC, M1307.

MECHANICAL EQUIPMENT (PER DEFERRED SUBMITTAL): NAVIEN TANKLESS WATER HEATER - MODEL# NPE-240A AMERICAN STANDARD TWO STAGE FURNACE - MODEL # R96VA060

AMERICAN STANDARD 13 SEER AC UNIT - MODEL # RA1336

ELEVATOR (PER DEFERRED SUBMITTAL):

ELEVATOR TO BE INSTALLED PER CURRENT WASHINGTON ADMINISTRATIVE CODE REQUIREMENTS, SEE SHOP DRAWINGS. ELEVATOR SHALL COMPLY WITH ASME A17.1 AND R321.

A SEPARATE PERMIT IS REQUIRED FOR ELEVATOR.

DEFERRED SUBMITTALS:

FOUNDATION & SHORING WATERPROOFING PRODUCTS & METHODS, GAS FIREPLACES, MECHANICAL EQUIPMENT, FIRE SPRINKLERS, APPLIANCES & VENTING, EXTERIOR RAILING, WATERPROOF DECK / BISON PAVER SYSTEM & WATERPROOF FLASHING. SHEET INDEX

|   | ND STANDARD COVER<br>COVER SHEET   |  |
|---|--|--|
| C2.1<br>C3.0  | DEMOLITION PLAN<br>TESC & GRADING<br>TESC NOTES & DETAILS<br>DRAINAGE & UTILITIES<br>NOTES & DETAILS   |  |
| A-3.1<br>A-4.1<br>A-5.1<br>A-6.2<br>A-7.1<br>A-7.2<br>A-7.3<br>A-8.1<br>A-8.2<br>A-8.3<br>A-8.4<br>A-8.5<br>A-8.5<br>A-8.6<br>A-8.7<br>A-9.1<br>A-9.2<br>A-9.3<br>A-9.4<br>A-10.1<br>A-11.1 | TREE PLAN<br>SURVEY<br>SURVEY<br>SITE DVLMPT WORKSHEET CALCS<br>LOGGIA PLAN<br>LOGGIA ROOF PLAN<br>BASEMENT PLAN<br>MAIN FLOOR & GARAGE PLAN<br>UPPER FLOOR & ADU PLAN<br>ATTIC PLAN<br>ROOF PLAN<br>ROOF PLAN<br>FRONT ELEVATIONS & MAT'L / DETAILS<br>SOUTH ELEVATIONS & MAT'L / DETAILS<br>SOUTH ELEVATIONS<br>BUILDING SECTIONS<br>BUILDING SECTIONS<br>WALL SECTIONS<br>WALL SECTIONS<br>WALL SECTIONS<br>WALL SECTIONS<br>WALL SECTIONS<br>WALL SECTIONS<br>WALL SECTIONS<br>WALL SECTIONS<br>WALL SECTIONS<br>INTERIOR ELEVATIONS<br>INTERIOR ELEVATIONS<br>INTERION ELEVATIONS | <ul> <li>NOT ISSUED</li> </ul> |
| S1.0W   | SHORING PLANS<br>SHORING PLANS<br>SHORING PLANS<br>SHORING PLANS   |  |
| S1.3<br>S1.4<br>S1.5<br>S2.1<br>S2.2<br>S2.3<br>S4.1  | STRUCTURAL PLANS<br>STRUCTURAL PLANS<br>STRUCTURAL PLANS<br>STRUCTURAL PLANS<br>STRUCTURAL NOTES & INFO<br>STRUCTURAL DETAILS<br>STRUCTURAL DETAILS<br>STRUCTURAL DETAILS<br>STRUCTURAL DETAILS  |  |
| M-2.1<br>M-3.1<br>M-4.1   | LOGGIA MECHANICAL PLAN<br>BASEMENT FLOOR MECHANICAL PLAN<br>MAIN FLOOR MECHANICAL PLAN<br>UPPER FLOOR & ADU MECHANICAL PLAN<br>ATTIC MECHANICAL PLAN<br>MISC INFORMATION   | - NOT ISSUED<br>- NOT ISSUED   |
| E-3.1<br>E-4.1  | SITE ELECTRICAL PLAN (DOCK POWER PER SEPARATE PERMIT)<br>LOGGIA ELECTRICAL & LIGHTING PLAN<br>BASEMENT FLOOR ELECTRICAL & LIGHTING PLAN<br>MAIN FLOOR ELECTRICAL & LIGHTING PLAN<br>UPPER FLOOR & ADU ELECTRICAL & LIGHTING PLANS<br>ATTIC ELECTRICAL & LIGHTING PLA   | NOT ISSUED<br>NOT ISSUED   |
|   | LOGGIA FIRE SPRINKLER PLAN<br>BASEMENT FLOOR FIRE SPRINKLER PLAN<br>MAIN FLOOR FIRE SPRINKLER PLANS<br>UPPER FLOOR FIRE SPRINKLER PLAN<br>ATTIC FIRE SPRINKLER PLAN  | DEFERRED SUB<br>DEFERRED SUB<br>DEFERRED SUB<br>DEFERRED SUB<br>DEFERRED SUB   |
| L-1.2   | LANDSCAPE PLAN<br>LANDSCAPE SOIL & PREP PLAN<br>IRRIGATION PLAN<br>SITE LICHTING PLAN  | -DEFERRED SUB<br>-DEFERRED SUB<br>-DEFERRED SUB  |

L-1.4 SITE LIGHTING PLAN

### PROJECT DESCRIPTION

NEW TWO STORY SINGLE FAMILY RESIDENCE OVER BASEMENT, W/ ADU ABOVE GARAGE + LOGGIA & SHORE \_EGAL\_DESCRIPTION

### PARCEL NUMBER PARCEL #: 257730-0021 ZONING R-15 LOT COVERAGE ALLOWED LOT COVERAGE 35 % MAX. 17,634 SQ. FT GROSS LOT AREA \*\*SEE SITE DEVELOPMENT WORKSHEET ON SHEET A-1.5\*\* DUU DINA LIFIALIT

| BUILDING HEIGH I                                  |        |
|---|--------|
| MAX BUILDING HEIGHT                               | 30 FT. |
| ABE:  | 62.58  |
| MAX RIDGE HT:                                     | 92.58  |
| **SEE SITE DEVELOPMENT WORKSHEET ON SHEET A-1.5** |        |
| **SEE SITE DEVELOPMENT WORKSHEET ON SHEET A-1.5** |        |

### BUILDING FOOTAGE

| OGGIA FLOOR                            |               | 390   | SQ. | FT. |
|--|---------------|-------|-----|-----|
| ASEMENT FLOOR                          |               | 2,261 | SQ. | FT. |
| IAIN FLOOR                             |               | 2,290 | SQ. | FT. |
| IPPER FLOOR (INCLUDES 810 SQ. FT. ADU) |               | 3,152 | SQ. | FT. |
|  | TOTAL HEATED: | 8,093 | SQ. | FT. |
|  |               |       |     |     |

URVEYO

TOM QUIGLEY

MARK GARFF

206-708-1862

MECHINCAL ENGINEE

ABOSSEIN ENGINEERS

GARY WOMACK, PE

425-462-9441

<u>WATERPROOFING</u>

425-488-0500

FIRE SPRINKLERS

10801 MAIN ST., STE 102

PHONE: 425-458-4488

OLYMPIC NURSERY INC

ANDSCAPE ARCHITEC

TOMOOLYMPICNURSERY.COM

PO BOX 2013 WOODINVILLE, WA 98072

SCJ STUDIO LANDSCAPE ARCHITECTURE

1148 NW LEARY WAY SEATTLE, WA 98107

18465 NE 68TH ST REDMOND, WA 98052

PO BOX 3081 KIRKLAND, WA 98083

COY POND CONTRACTOR / DESIGNER

ALL AMERICAN WATERPROOFING & SPRAY INC

BELLEVUE, WA 98004

TERRANE

924 SQ. FT.

410 SQ. FT

PORCHES PROJECT TEAM

GARAGE

ROSS MURRAY 7675 NE 14TH ST MEDINA, WA 98039

ARCHITECT RICHARD FLAKE / RF ARCHITECTURE 7421 214TH AVE E BONNEY LAKE, WA 98391 PHONE: 253-359-4039

RICHARD@RFARCHITECTURE.COM

CONTRACTOR SAAD CUSTOM HOMES LLC JASON WILLIAMS

JASONW@SAADCUSTOMHOMES.COM STRUCTURAL ENGINEER B & T DESIGN & ENGINEERING

1215 120TH AVE NE #202 BELLEVUE, WA 98005

TERRY BALDWIN, SE 250 E. SUNSET WAY ISSAQUAH. WA 98027 PHONE: 425-557-0779 TERRY@BNTENGR.COM

GEOTECH CONSULTANTS INC. MARC MCGINNIS 2401 10TH AVE. E SEATTLE. WA 98102 PHONE: 425-260-1116

<u>CIVIL ENGINEER</u> APEX ENGINEERING 2601 SOUTH 35TH ST., #200 TACOMA, WA 98409 PHONE: 253-473-4494 **JACOBS@APEX** 

ENERGY DATA

ALL NEW GLAZING, DOOR U-VALUES AND INSULATION R-VALUES TO SATISFY PRESCRIPTIVE PATH OF THE 2015 WASHINGTON STATE ENERGY CODE. CONDITIONED FLOOR AREA: 8,093 SQ. FT. COMPONENT PERFORMANCE PER 2015 WSEC:

#### TARGET VALUE NEW VERTICAL GLAZING: U= 0.30 NEW DOOR GLAZING: U= 0.30

FLAT CEILINGS: U= 0.026(R-38) NEW WALLS ABOVE GRADE R-21 NEW 2x6 WALLS R-10 SLAB ON GRADE:

DUCT LEAKAGE TEST RESULTS SHALL BE PROVIDED TO THE BUILDING INSPECTOR PRIOR TO AN APPROVED FINAL INSPECTION IF REQUESTED.

A RESIDENTIAL ENERGY COMPLIANCE CERTIFICATE COMPLYING WITH SEC 105.4 IS REQUIRED TO BE COMPLETED AND PERMANENTLY POSTED WITHIN 3' OF THE ELECTRICAL PANEL PRIOR TO FINAL INSPECTION, IF REQUIRED. ALL NEW EXTERIOR WALL GLAZING SHALL BE DOUBLE GLAZED AND COMPLY WITH STATE

75% OF ALL LIGHT FIXTURES SHALL BE LED RECESSED (HIGH EFFICIENCY). ALL CAN LIGHTS MUST MEET R402.4.4.

OF WASHINGTON ENERGY CODE.

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DESIGN VALUE U= 0.30 U= 0.30 U= 0.0135(R-75)

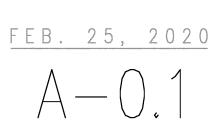
R-21 R-10



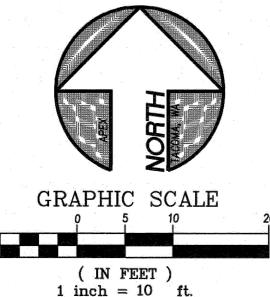
ALL DRAWINGS, SPECIFICATIONS, PLANS, IDEAS ARRANGEMENTS, AND DESIGNS REPRESENTED OR REFERRED TO ARE THE PROPERTY OF AND OWNED BY RICHARD FLAKE ARCHITECT IN WHETHER THE PROJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT. THEY WERE CREATED, EVOLVED, DEVELOPED AND PRODUCEI FOR SOLE USE ON AND IN CONNECTION WITH THIS PROJECT AND NONE OF THE ABOVE MAY BE DISCLOSED OR GIVEN TO OR USED BY AN' PERSON, FIRM, OR CORPORATION FOR ANY USE OR PURPOSE WHATSOEVER INCLUDING ANY OTHER PROJECT, EXCEPT UPON WRITTEN PERMISSION OF RICHARD FLAKE ARCHITECT.

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| TREE RE         | FERENCE                    |
|-----------------|----------------------------|
| #287            | TO REMAIN                  |
| <i></i><br>#288 | TO RETAIN                  |
| #289            | TO RETAIN                  |
| #290            | TO BE REMOVED              |
| #291            | TO RETAIN                  |
| #292            | TO BE REMOVED              |
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| #750<br>#751    | TO RETAIN<br>TO BE REMOVED |
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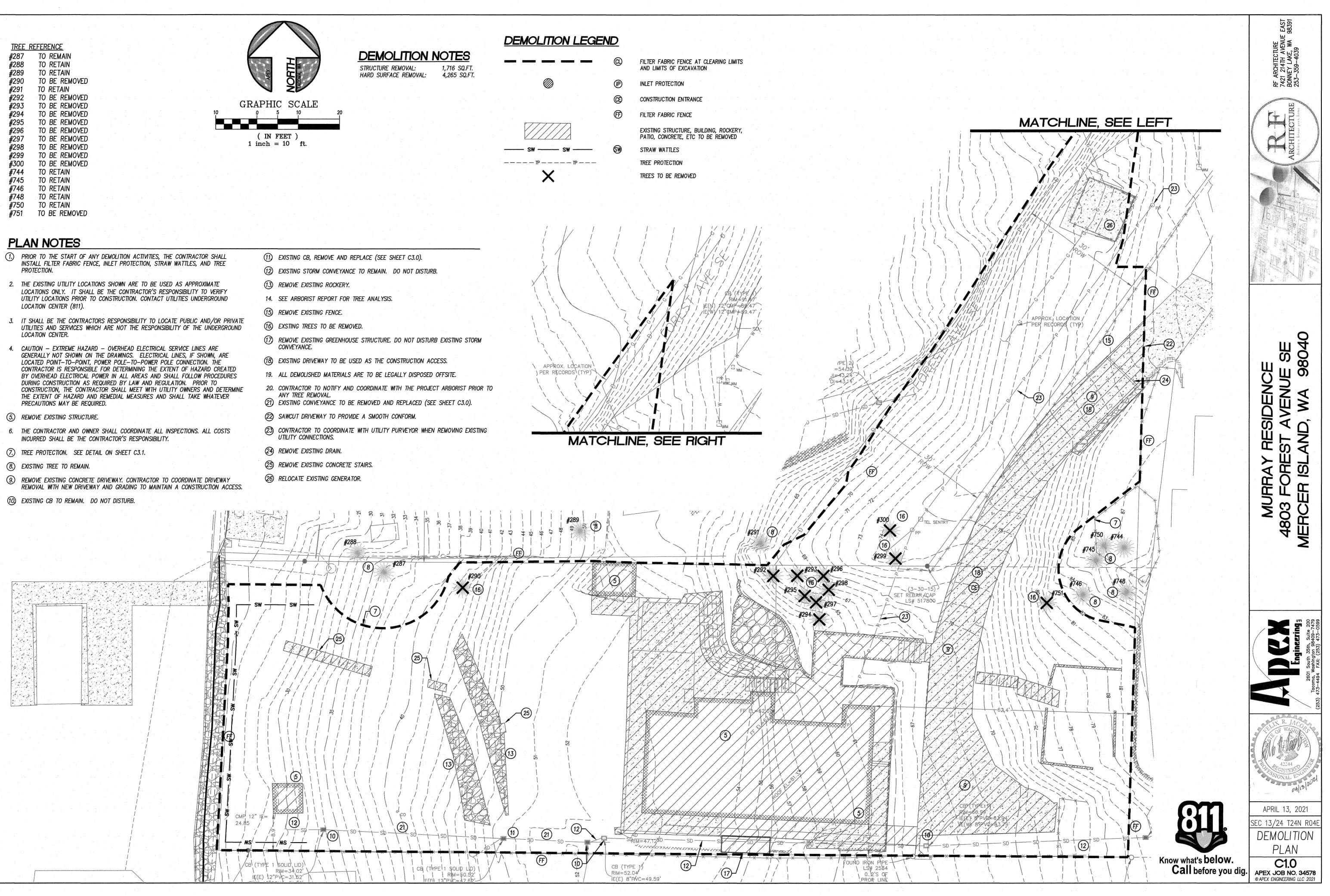


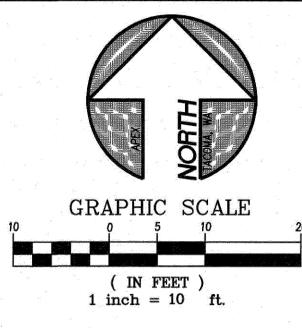
- PROTECTION.
- LOCATIONS ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY UTILITY LOCATIONS PRIOR TO CONSTRUCTION. CONTACT UTILITIES UNDERGROUND
- UTILITIES AND SERVICES WHICH ARE NOT THE RESPONSIBILITY OF THE UNDERGROUND LOCATION CENTER.
- GENERALLY NOT SHOWN ON THE DRAWINGS. ELECTRICAL LINES, IF SHOWN, ARE LOCATED POINT-TO-POINT, POWER POLE-TO-POWER POLE CONNECTION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXTENT OF HAZARD CREATED BY OVERHEAD ELECTRICAL POWER IN ALL AREAS AND SHALL FOLLOW PROCEDURES DURING CONSTRUCTION AS REQUIRED BY LAW AND REGULATION. PRIOR TO THE EXTENT OF HAZARD AND REMEDIAL MEASURES AND SHALL TAKE WHATEVER
- INCURRED SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

- 14. SEE ARBORIST REPORT FOR TREE ANALYSIS.

- CONVEYANCE.

- UTILITY CONNECTIONS.

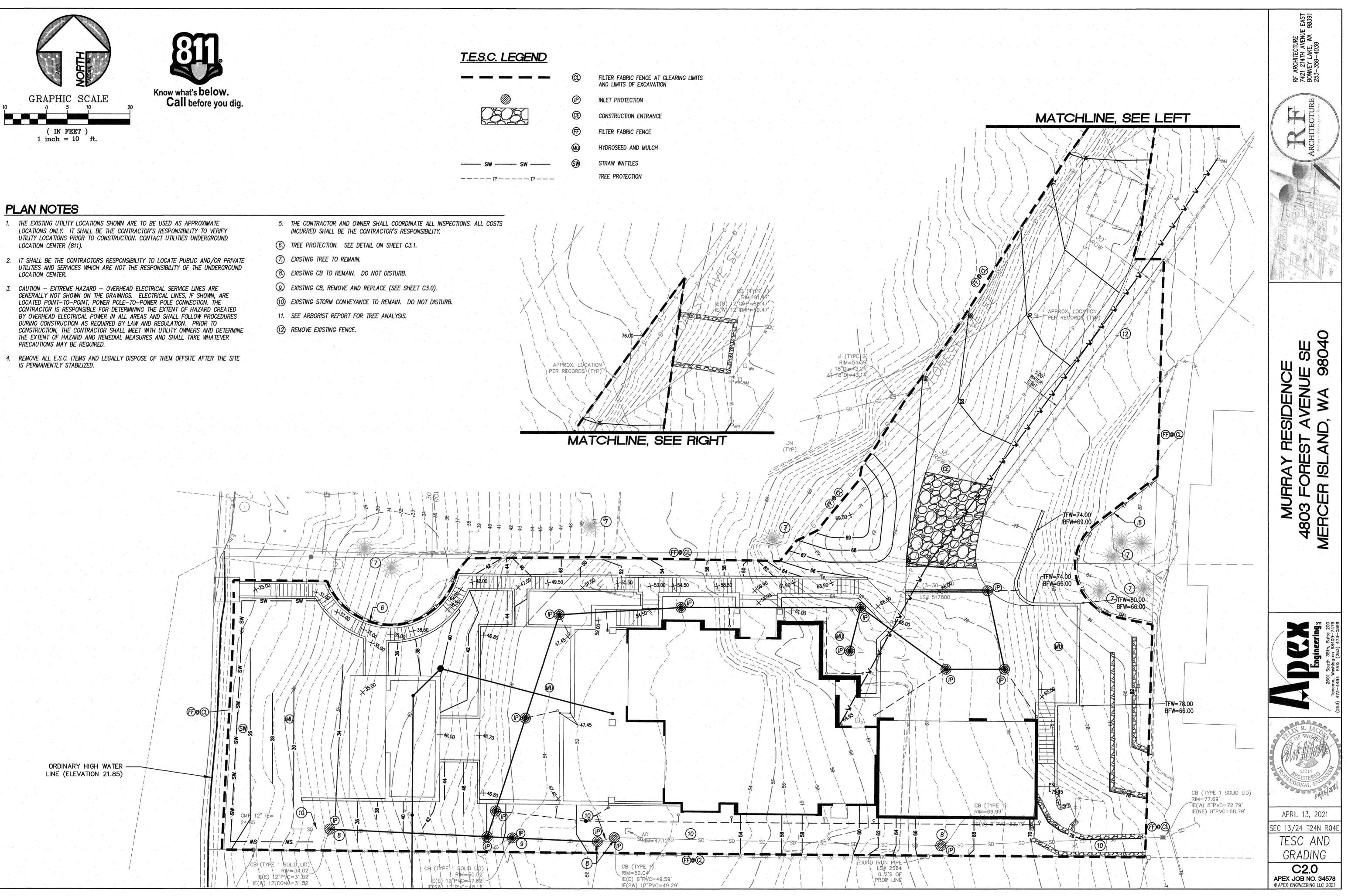


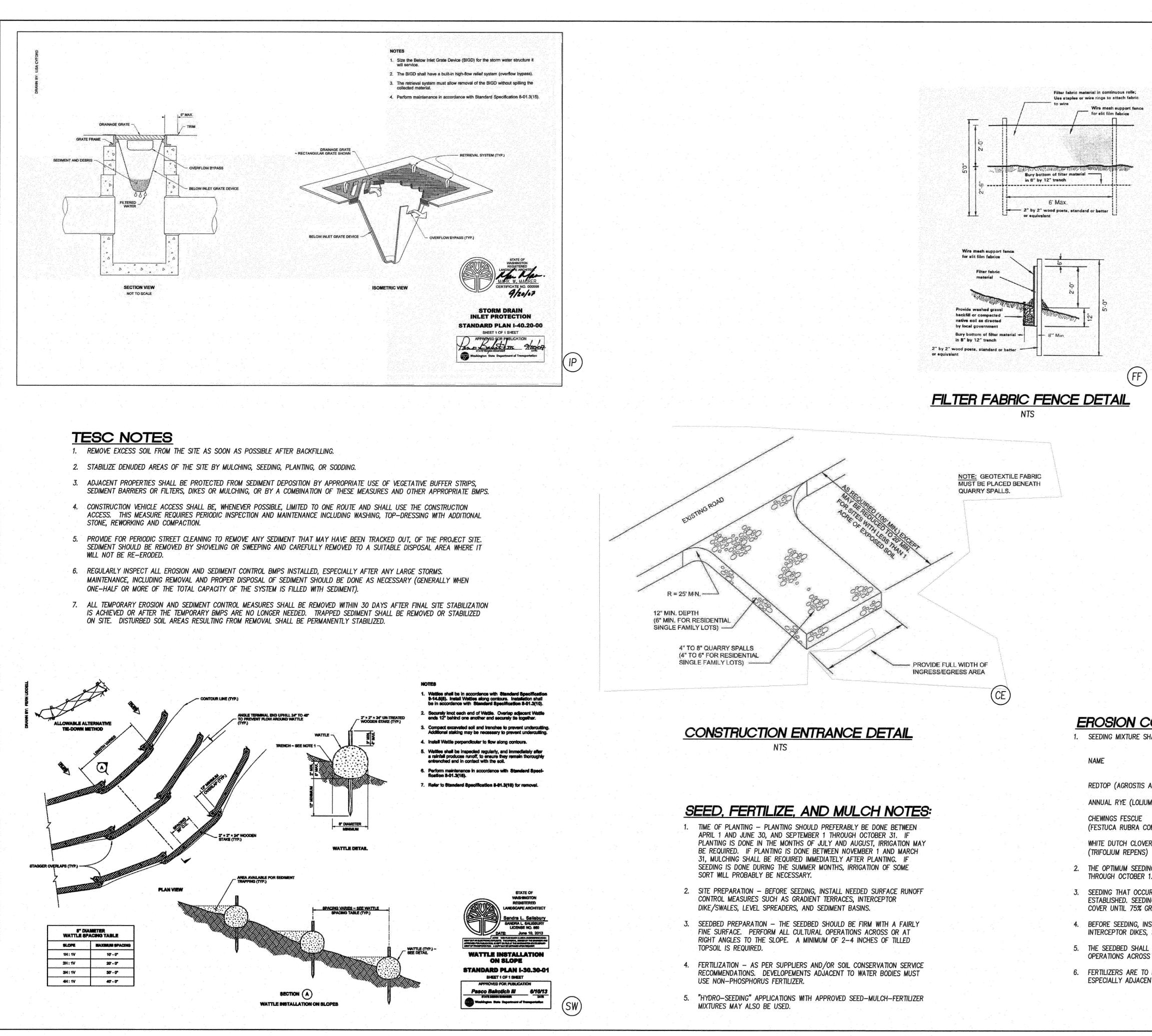




- LOCATION CENTER (811).
- UTILITIES AND SERVICES WHICH ARE NOT THE RESPONSIBILITY OF THE UNDERGROUND LOCATION CENTER.
- GENERALLY NOT SHOWN ON THE DRAWINGS. ELECTRICAL LINES, IF SHOWN, ARE LOCATED POINT-TO-POINT, POWER POLE-TO-POWER POLE CONNECTION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXTENT OF HAZARD CREATED BY OVERHEAD ELECTRICAL POWER IN ALL AREAS AND SHALL FOLLOW PROCEDURES DURING CONSTRUCTION AS REQUIRED BY LAW AND REGULATION. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL MEET WITH UTILITY OWNERS AND DETERMINE THE EXTENT OF HAZARD AND REMEDIAL MEASURES AND SHALL TAKE WHATEVER
- IS PERMANENTLY STABILIZED.

- INCURRED SHALL BE THE CONTRACTOR'S RESPONSIBILITY.





### FILTER FABRIC FENCE NOTES:

- 1. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6 INCH OVERLAP, AND BOTH ENDS SECURELY FASTENED TO THE POST.
- 2. POSTS SHALL BE SPACED A MAXIMUM OF 6 FEET APART AND DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 30 INCHES (WHERE PHYSICALLY POSSIBLE).
- 3. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 8 INCHES WIDE AND 12 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER. THE TRENCH SHALL BE CONSTRUCTED TO FOLLOW THE CONTOUR.
- 4. WHEN SLIT FILM FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH LONG, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 4 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
- 5. SLIT FILM FILTER FABRIC SHALL BE WIRED TO THE FENCE, AND 20 INCHES OF THE FABRIC SHALL EXTEND INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES. OTHER TYPES OF FABRIC MAY BE STAPLED TO THE FENCE.
- WHEN EXTRA-STRENGTH OR MONOFILAMENT FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF FILTER FABRIC NOTES APPLYING. EXTRA CARE SHOULD BE USED WHEN JOINING OR OVERLAPPING THESE FILTER FABRICS.
- LOCAL GOVERNMENTS MAY SPECIFY THE USE OF PROPERLY COMPACTED NATIVE MATERIAL. IN MANY INSTANCES, THIS MAY BE THE PREFERRED ALTERNATIVE BECAUSE THE SOIL FORMS A MORE CONTINUOUS CONTACT WITH THE TRENCH BELOW, AND USE OF NATIVE MATERIALS CUTS DOWN ON THE NUMBER OF TRIPS THAT MUST BE MADE ON AND OFF-SITE. IF GRAVEL IS USED INSTEAD, THE TRENCH SHALL BE BACKFILLED WITH 3/4-INCH MINIMUM DIAMETER WASHED GRAVEL. CARE MUST BE TAKEN WHEN USING GRAVEL TO ENSURE GOOD CONTACT BETWEEN THE FABRIC AND THE TRENCH BOTTOM TO PREVENT UNDERCUTTING.
- 8. FILTER FABRIC FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PROPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED. RETAINED SEDIMENT MUST BE REMOVED AND PROPERLY DISPOSED OF, OR MULCHED AND SEEDED.
- 9. INSPECT IMMEDIATELY AFTER EACH RAINFALL, AND AT LEAST DAILY DURING PROLONGED RAINFALL. REPAIR AS NECESSARY.
- 10. SEDIMENT MUST BE REMOVED WHEN IT REACHES APPROXIMATELY ONE THIRD THE HEIGHT OF THE FENCE, ESPECIALLY IF HEAVY RAINS ARE EXPECTED.
- 11. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE FILTER FENCE IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.

### EROSION CONTROL SEEDING MIX:

| SEEDING MIXTURE SHALL BE AS FOLLOWS AND SI   | HALL BE APPLIED          | AT THE R          | ATE OF 120 LBS,        | /ACRE: |
|--|--------------------------|-------------------|------------------------|--------|
| NAME   | Proportions<br>by weight | PERCENT<br>PURITY | PERCENT<br>GERMINATION |        |
| REDTOP (AGROSTIS ALBA)                       | 10                       | 92                | 90                     |        |
| ANNUAL RYE (LOLIUM MULTIFLORUM)              | 40                       | 98                | 90                     |        |
| CHEWINGS FESCUE<br>(FESTUCA RUBRA COMMUTATA) | 40                       | 97                | 80                     |        |
| WHITE DUTCH CLOVER<br>(TRIFOLIUM REPENS)     | 10                       | 96                | 90                     |        |

2. THE OPTIMUM SEEDING WINDOWS FOR WESTERN WASHINGTON ARE APRIL 1 THROUGH JUNE 30 AND SEPTEMBER 1

3. SEEDING THAT OCCURS BETWEEN JULY 1 AND AUGUST 30 WILL REQUIRE IRRIGATION UNTIL 75% GRASS COVER IS ESTABLISHED. SEEDING THAT OCCURS BETWEEN OCTOBER 1 AND MARCH 30 WILL REQUIRE A MULCH OR PLASTIC COVER UNTIL 75% GRASS COVER IS ESTABLISHED.

4. BEFORE SEEDING, INSTALL NEEDED SURFACE RUNOFF CONTROL MEASURES SUCH AS GRADIENT TERRACES, INTERCEPTOR DIKES, SWALES, LEVEL SPREADERS AND SEDIMENT BASINS.

5. THE SEEDBED SHALL BE FIRM WITH A FAIRLY FINE SURFACE, FOLLOWING SURFACE ROUGHENING. PERFORM ALL OPERATIONS ACROSS OR AT RIGHT ANGLES TO THE SLOPE.

6. FERTILIZERS ARE TO BE USED ACCORDING TO SUPPLIERS RECOMMENDATIONS. AMOUNTS USED SHOULD BE MINIMIZED. ESPECIALLY ADJACENT TO WATER BODIES AND WETLANDS.



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Alla Alla APRIL 13, 2021 EC 13/24 T24N R04E TESC NOTES AND DETAILS C2.1

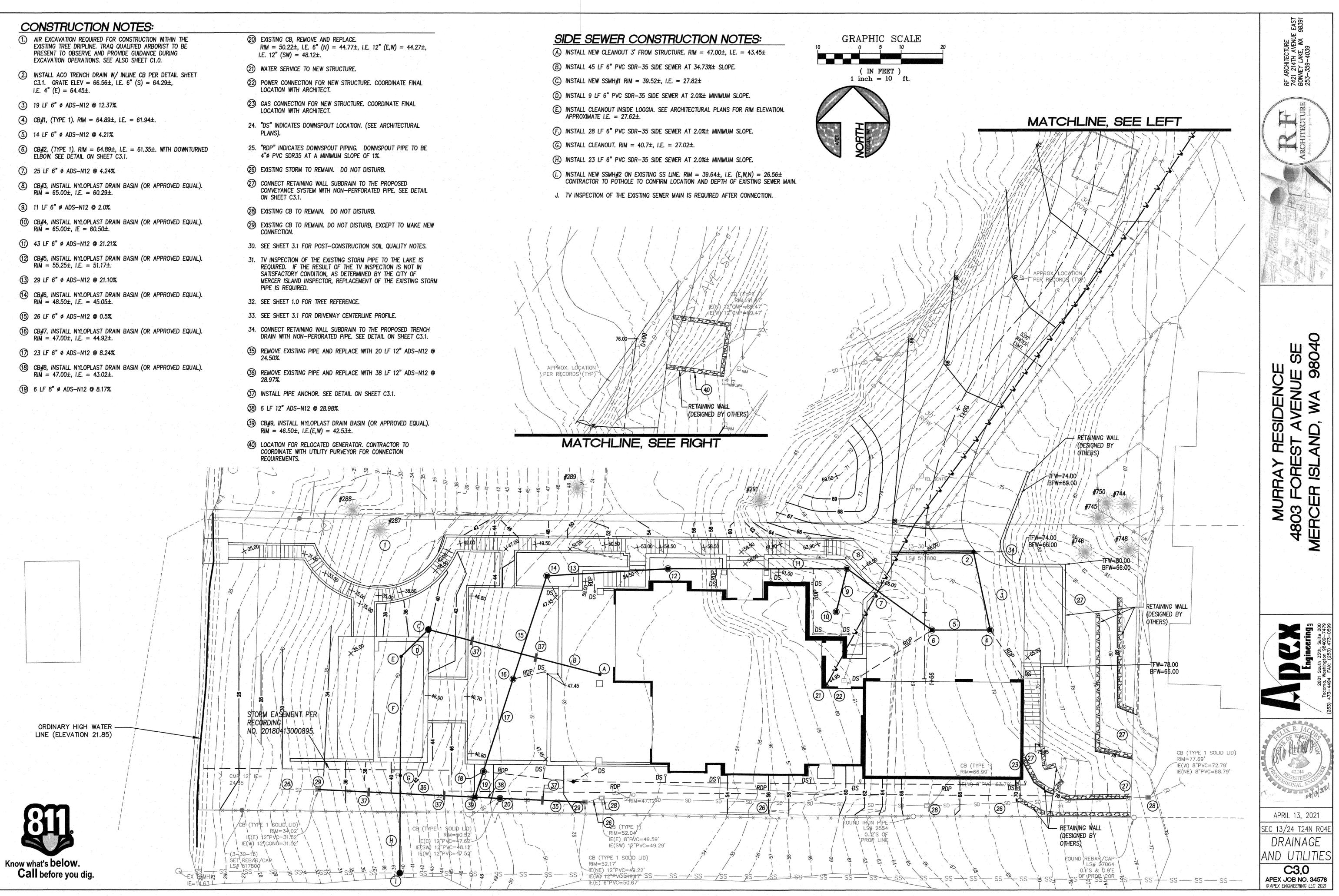
APEX JOB NO. 34578 © APEX ENGINEERING LLC 2021

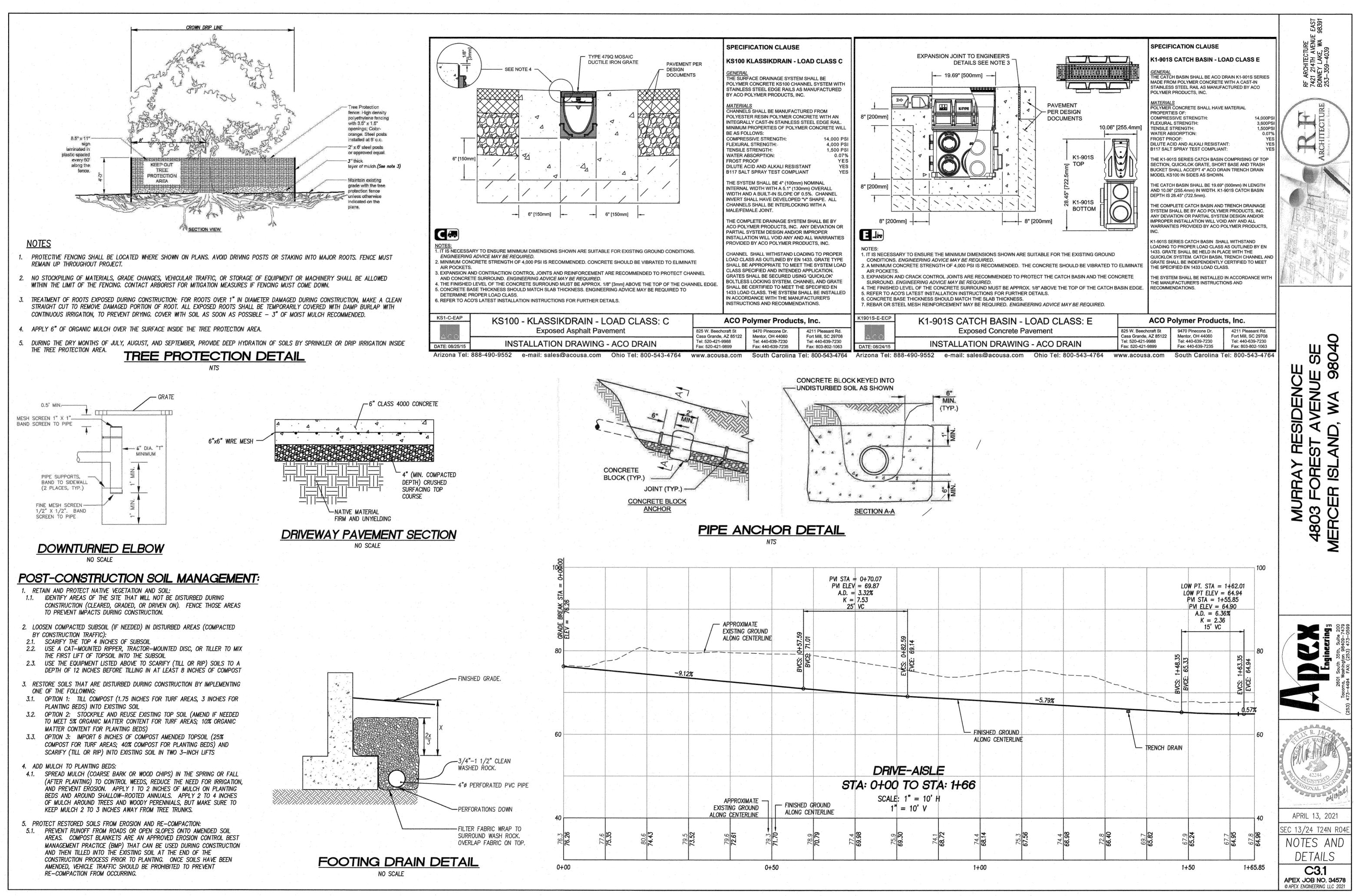
- PRESENT TO OBSERVE AND PROVIDE GUIDANCE DURING EXCAVATION OPERATIONS. SEE ALSO SHEET C1.0.
- C3.1. GRATE ELEV =  $66.56\pm$ , I.E. 6" (S) =  $64.29\pm$ ,  $I.E. 4"(E) = 64.45\pm$ .

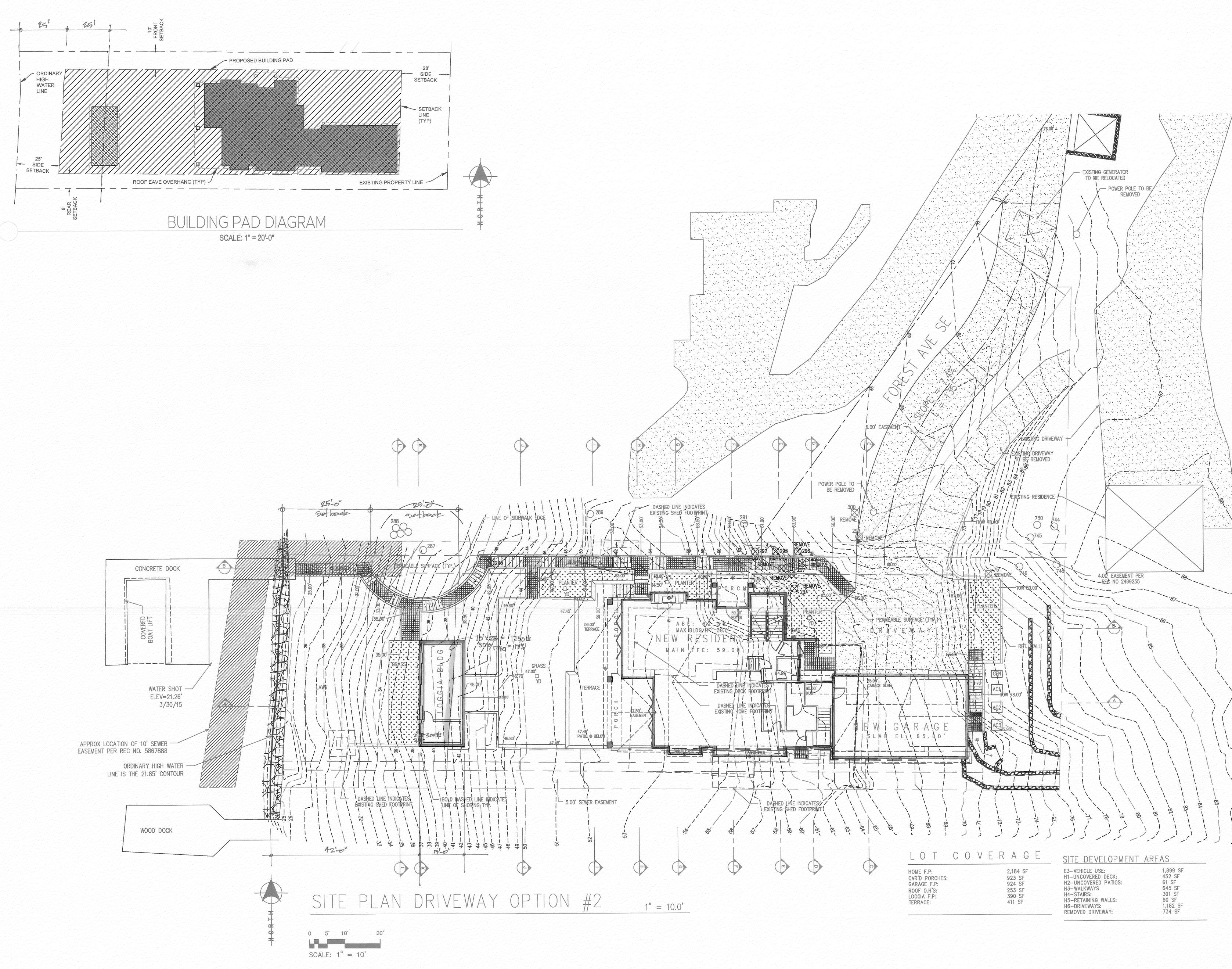
- ELBOW. SEE DÉTAIL ON SHEET C3.1.

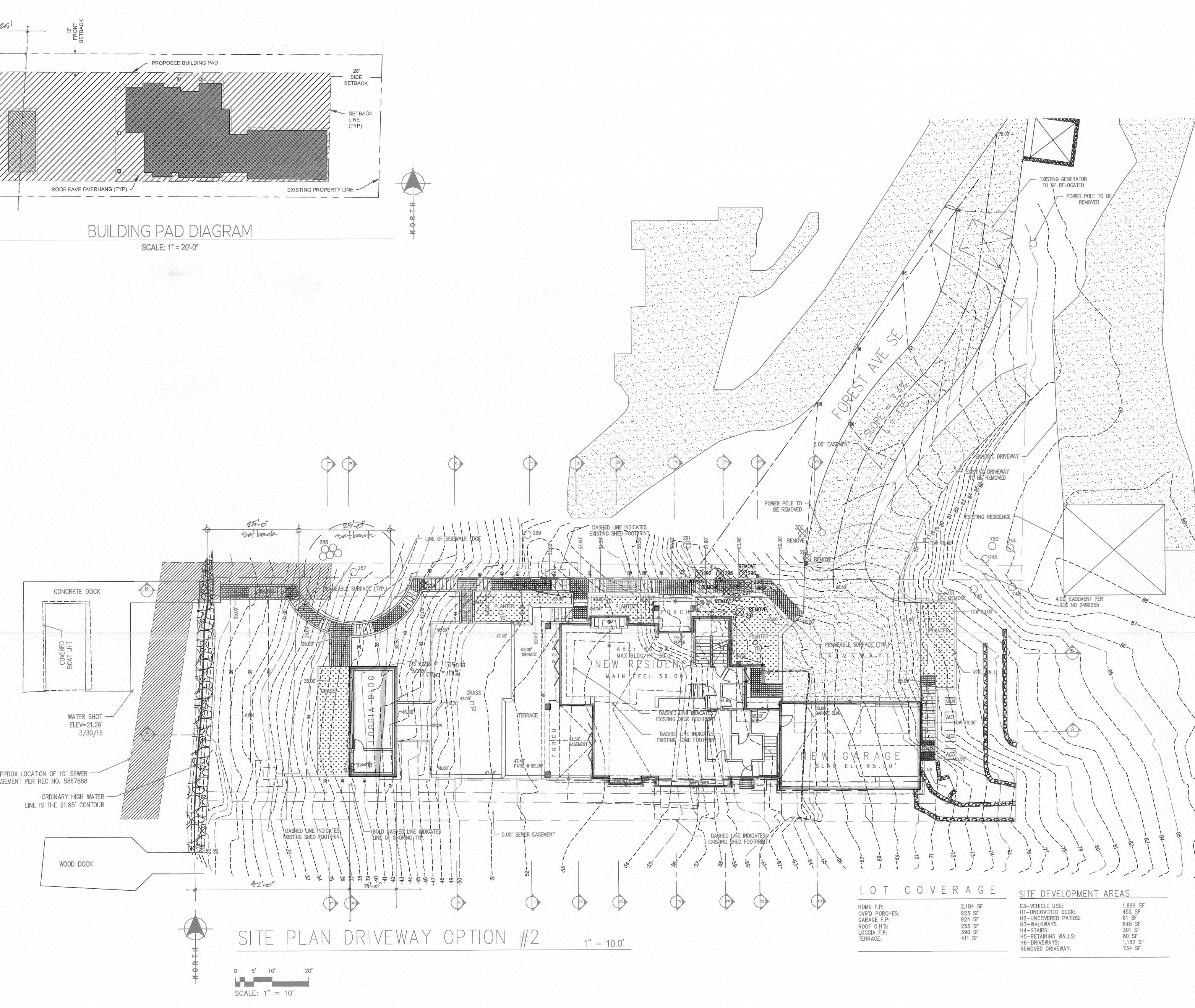
- LOCATION WITH ARCHITECT.
- LOCATION WITH ARCHITECT.
- PLANS).
- 4" PVC SDR35 AT A MINIMUM SLOPE OF 1%.
- (26) EXISTING STORM TO REMAIN. DO NOT DISTURB.
- ON SHEET C3.1.
- CONNECTION.
- REQUIRED. IF THE RESULT OF THE TV INSPECTION IS NOT IN SATISFACTORY CONDITION. AS DETERMINED BY THE CITY OF PIPE IS REQUIRED.
- 33. SEE SHEET 3.1 FOR DRIVEWAY CENTERLINE PROFILE.
- DRAIN WITH NON-PERORATED PIPE. SEE DETAIL ON SHEET C3.1.
- 24.50%
- 28.97%

- $RIM = 46.50\pm$ , I.E.(E,W) = 42.53±.
- COORDINATE WITH UTILITY PURVEYOR FOR CONNECTION REQUIREMENTS.



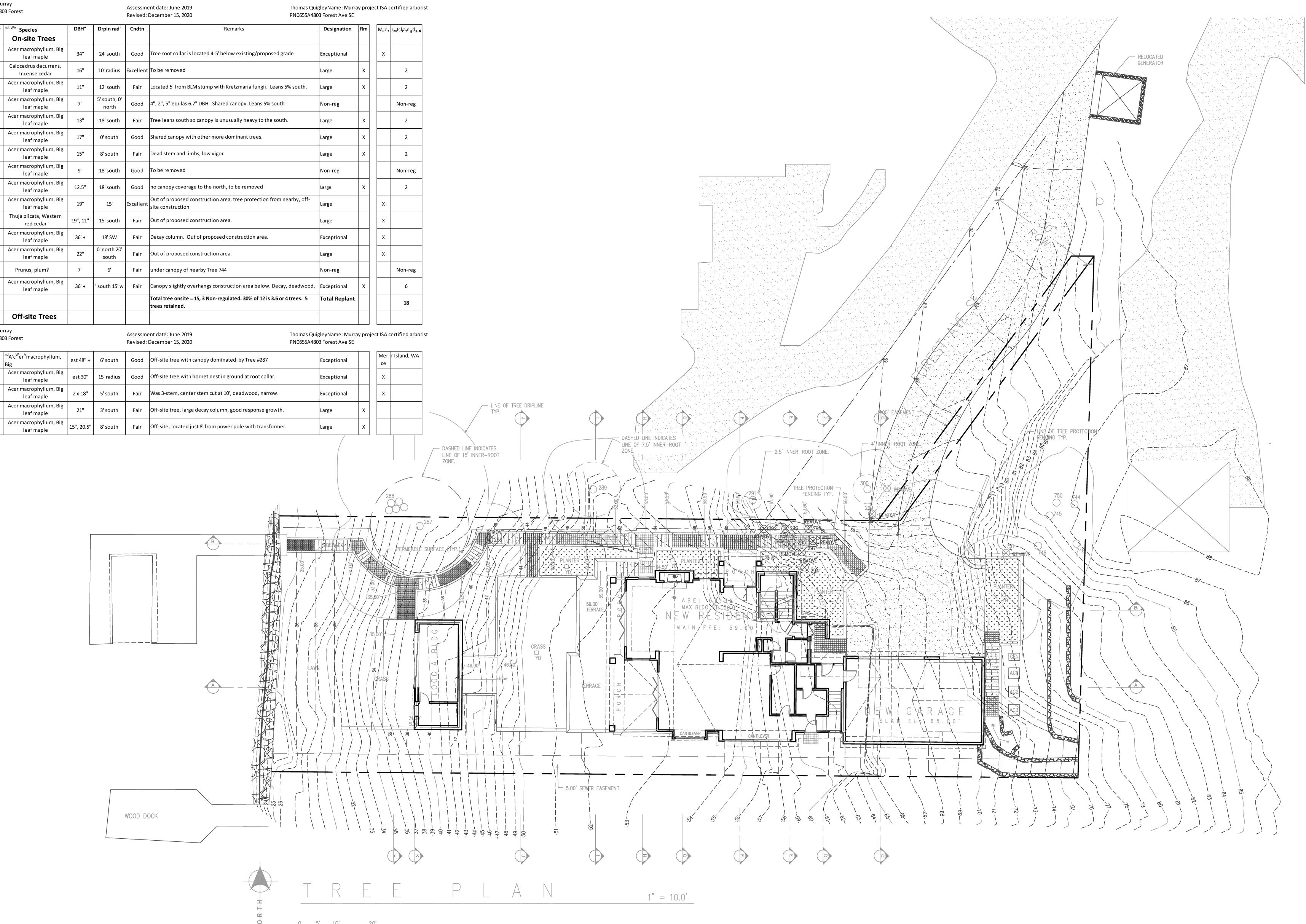






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| Name: Mu<br>project 48<br>Ave SE    | •   |           |                       |           | ent date: June 2019 Thomas Qui<br>December 15, 2020 PN0655A480                            | • •       |
|-------------------------------------|---|-----------|-----------------------|-----------|---|-----------|
| Me <sub>T</sub> rc <sub>ree</sub> r | <sup>nd, WA</sup> Species   | DBH"      | Drpln rad'            | Cndtn     | Remarks   | Designa   |
|                                     | On-site Trees   |           |                       |           |   |           |
| 287                                 | Acer macrophyllum, Big<br>leaf maple                                | 34"       | 24' south             | Good      | Tree root collar is located 4-5' below existing/proposed grade                            | Exceptio  |
| 290                                 | Calocedrus decurrens.<br>Incense cedar                              | 16"       | 10' radius            | Excellent | To be removed   | Large     |
| 292                                 | Acer macrophyllum, Big<br>leaf maple                                | 11"       | 12' south             | Fair      | Located 5' from BLM stump with Kretzmaria fungii. Leans 5% south.                         | Large     |
| 293                                 | Acer macrophyllum, Big<br>leaf maple                                | 7"        | 5' south, 0'<br>north | Good      | 4", 2", 5" equlas 6.7" DBH. Shared canopy. Leans 5% south                                 | Non-reg   |
| 294                                 | Acer macrophyllum, Big<br>leaf maple                                | 13"       | 18' south             | Fair      | Tree leans south so canopy is unusually heavy to the south.                               | Large     |
| 295                                 | Acer macrophyllum, Big<br>leaf maple                                | 17"       | 0' south              | Good      | Shared canopy with other more dominant trees.   | Large     |
| 296                                 | Acer macrophyllum, Big<br>leaf maple                                | 15"       | 8' south              | Fair      | Dead stem and limbs, low vigor  | Large     |
| 297                                 | Acer macrophyllum, Big<br>leaf maple                                | 9"        | 18' south             | Good      | To be removed   | Non-reg   |
| 298                                 | Acer macrophyllum, Big<br>leaf maple                                | 12.5"     | 18' south             | Good      | no canopy coverage to the north, to be removed  | Large     |
| 744                                 | Acer macrophyllum, Big<br>leaf maple                                | 19"       | 15'                   | Excellent | Out of proposed construction area, tree protection from nearby, off-<br>site construction | Large     |
| 745                                 | Thuja plicata, Western<br>red cedar                                 | 19", 11"  | 15' south             | Fair      | Out of proposed construction area.  | Large     |
| 746                                 | Acer macrophyllum, Big<br>leaf maple                                | 36"+      | 18' SW                | Fair      | Decay column. Out of proposed construction area.  | Exceptio  |
| 748                                 | Acer macrophyllum, Big<br>leaf maple                                | 22"       | 0' north 20'<br>south | Fair      | Out of proposed construction area.  | Large     |
| 750                                 | Prunus, plum?   | 7"        | 6'                    | Fair      | under canopy of nearby Tree 744   | Non-reg   |
| 751                                 | Acer macrophyllum, Big<br>leaf maple                                | 36"+      | ' south 15' w         | Fair      | Canopy slightly overhangs construction area below. Decay, deadwood.                       | Exception |
|                                     |   |           |                       |           | Total tree onsite = 15, 3 Non-regulated. 30% of 12 is 3.6 or 4 trees. 5 trees retained.   | Total Re  |
|                                     | Off-site Trees  |           |                       |           |   |           |
| Name: Mu<br>project 480<br>Ave SE   | •   |           |                       |           | ent date: June 2019 Thomas Qui<br>December 15, 2020 PN0655A480                            |           |
| Mercer<br>Isla                      | <sup>nd</sup> A'c <sup>W</sup> er <sup>A</sup> macrophyllum,<br>Big | est 48" + | 6' south              | Good      | Off-site tree with canopy dominated by Tree #287  | Exception |
| 289                                 | Acer macrophyllum, Big<br>leaf maple                                | est 30"   | 15' radius            | Good      | Off-site tree with hornet nest in ground at root collar.                                  | Exceptio  |
| 291                                 | Acer macrophyllum, Big<br>leaf maple                                | 2 x 18"   | 5' south              | Fair      | Was 3-stem, center stem cut at 10', deadwood, narrow.                                     | Exceptio  |
| 299                                 | Acer macrophyllum, Big<br>leaf maple                                | 21"       | 3' south              | Fair      | Off-site tree, large decay column, good response growth.                                  | Large     |
|                                     |   |           |                       | T         |   |           |



0 5' 10' 20' SCALE: 1" = 10'



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APR. 26, 2021 A - 1.2

#### LEGAL DESCRIPTION

LOT 2 OF MERCER ISLAND SHORT PLAT, ACCORDING TO THE SHORT PLAT RECORDED UNDER KING COUNTY RECORDING NO. 9005099001, RECORDS OF KING COUNTY, WASHINGTON.

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

#### BASIS OF BEARINGS

PER PLAT OF LAKE ISLE CENTERLINE OF FOREST AVE SE BEARS N 00°05'56" W BETWEEN FOUND MONUMENTS.

#### REFERENCES

- R1. LAKE ISLE, RECORDED IN VOL. 19 OF PLATS, PAGE 35, IN KING COUNTY, WASHINGTON.
- R2. FLOODS ACRE GARDENS, RECORDED IN VOL. 7 OF PLATS, PAGE 26, IN KING COUNTY, WASHINGTON.

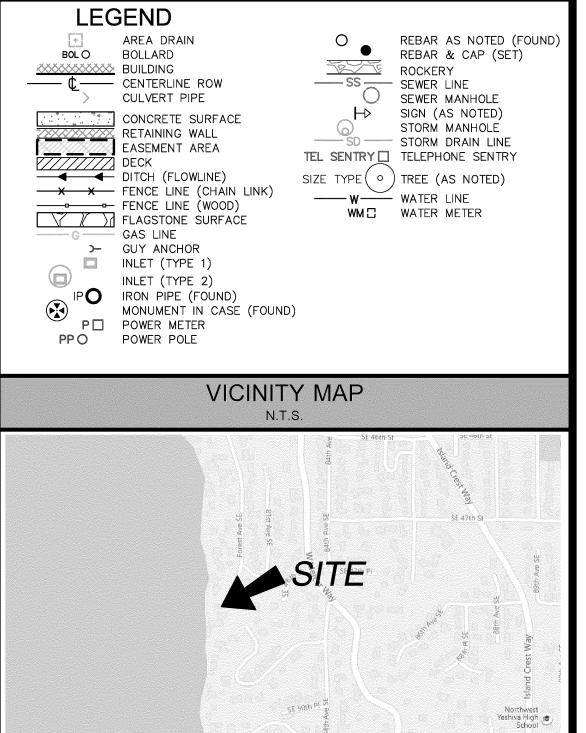
### VERTICAL DATUM

PER US ARMY CORPS OF ENGINEERS MONITORING OF LAKE WASHINGTON - BALLARD DATUM

#### SURVEYOR'S NOTES

- I. THE TOPOGRAPHIC SURVEY SHOWN HEREON WAS PERFORMED IN AUGUST OF 2019. 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 ELEVATIONS.
- 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. 2577300021
- 5. SUBJECT PROPERTY AREA PER THIS SURVEY IS 17,448 S.F. (0.40 ACRES) (MEASURED TO ORDINARY HIGH WATER LINE)
- 6. THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE REPORT. EASEMENTS AND OTHER ENCUMBRANCES MAY EXIST THAT ARE NOT SHOWN HEREON.
- 7. 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.

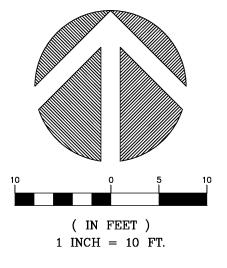
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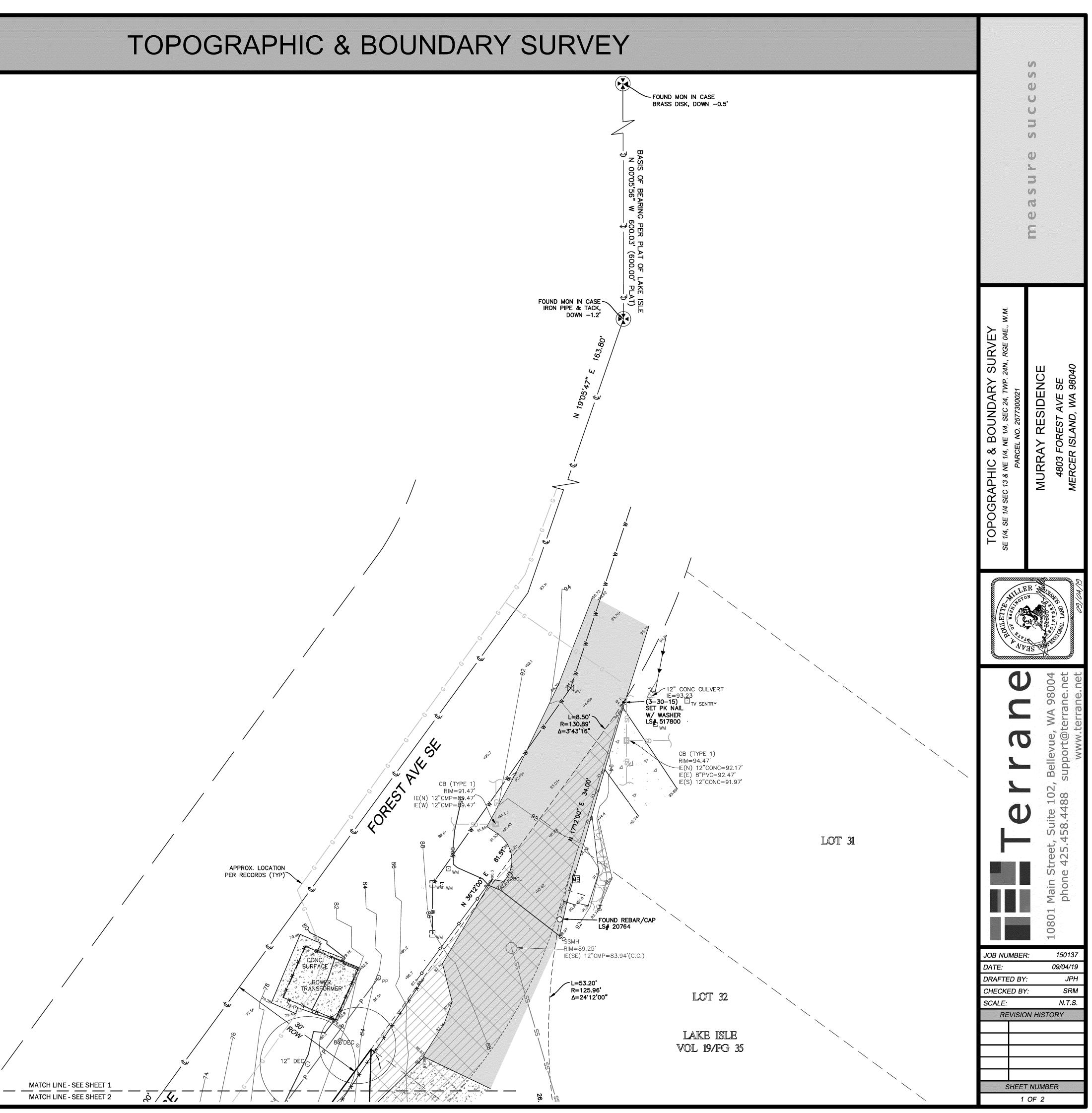


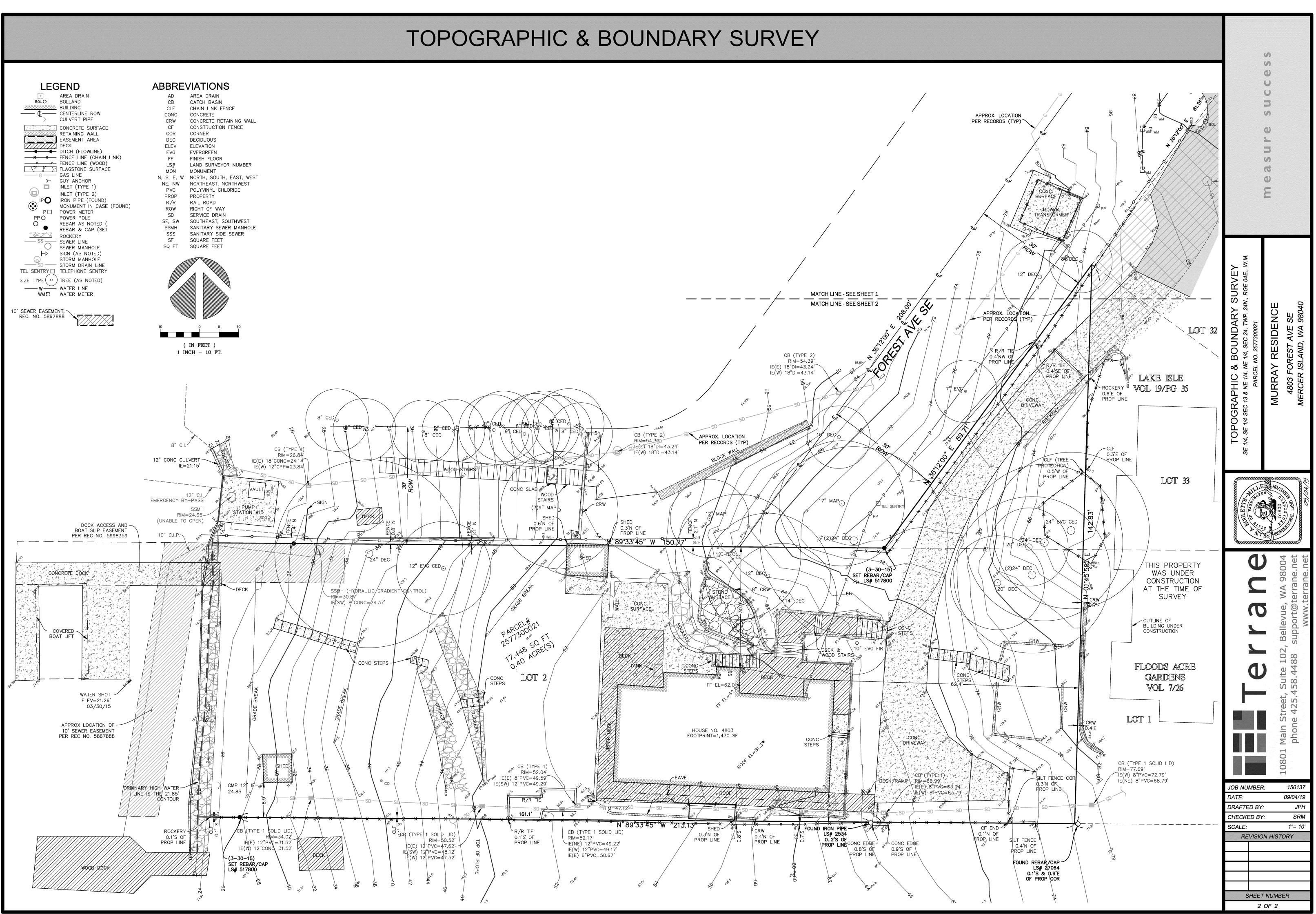
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#### ABBREVIATIONS

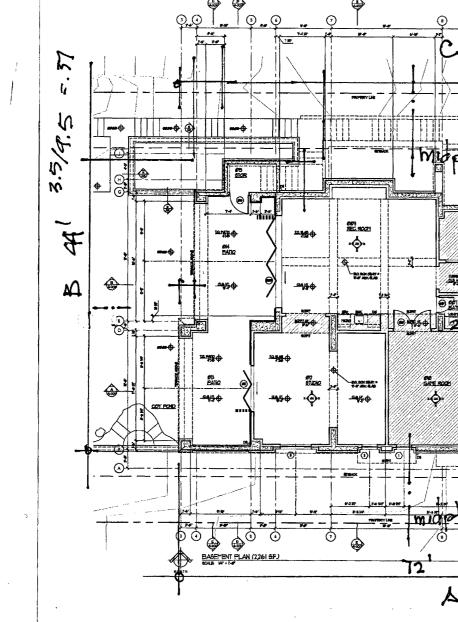
| AD         | AREA DRAIN               |
|------------|--------------------------|
| СВ         | CATCH BASIN              |
| CLF        | CHAIN LINK FENCE         |
| CONC       | CONCRETE                 |
| CRW        | CONCRETE RETAINING WALL  |
| CF         | CONSTRUCTION FENCE       |
| COR        | CORNER                   |
| DEC        | DECIDUOUS                |
| ELEV       | ELEVATION                |
| EVG        | EVERGREEN                |
| FF         | FINISH FLOOR             |
| LS#        | LAND SURVEYOR NUMBER     |
| MON        | MONUMENT                 |
| N, S, E, W | NORTH, SOUTH, EAST, WEST |
| NE, NW     | NORTHEAST, NORTHWEST     |
| PVC        | POLYVINYL CHLORIDE       |
| PROP       | PROPERTY                 |
| R/R        | RAIL ROAD                |
| ROW        | RIGHT OF WAY             |
| SD         | SERVICE DRAIN            |
| SE, SW     | SOUTHEAST, SOUTHWEST     |
| SSMH       | SANITARY SEWER MANHOLE   |
| SSS        | SANITARY SIDE SEWER      |
| SF         | SQUARE FEET              |
| SQ FT      | SQUARE FEET              |

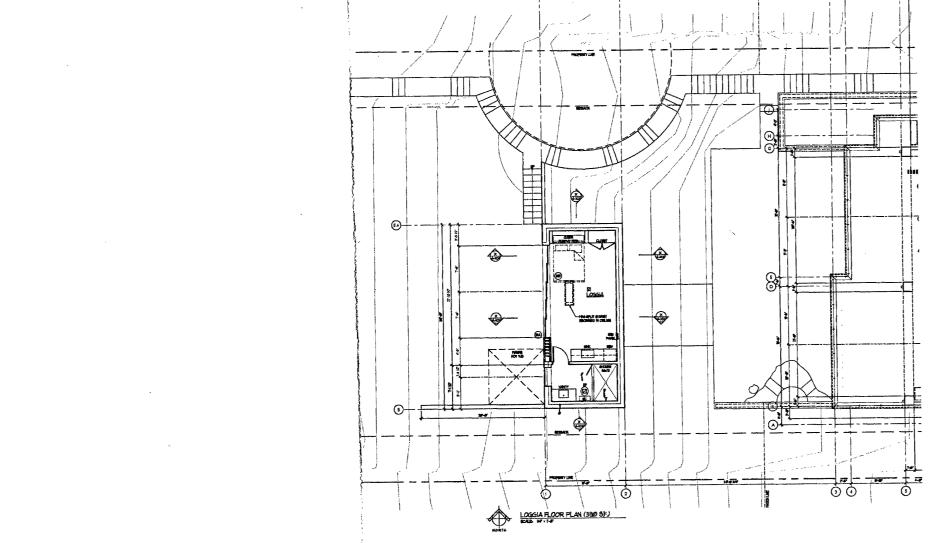






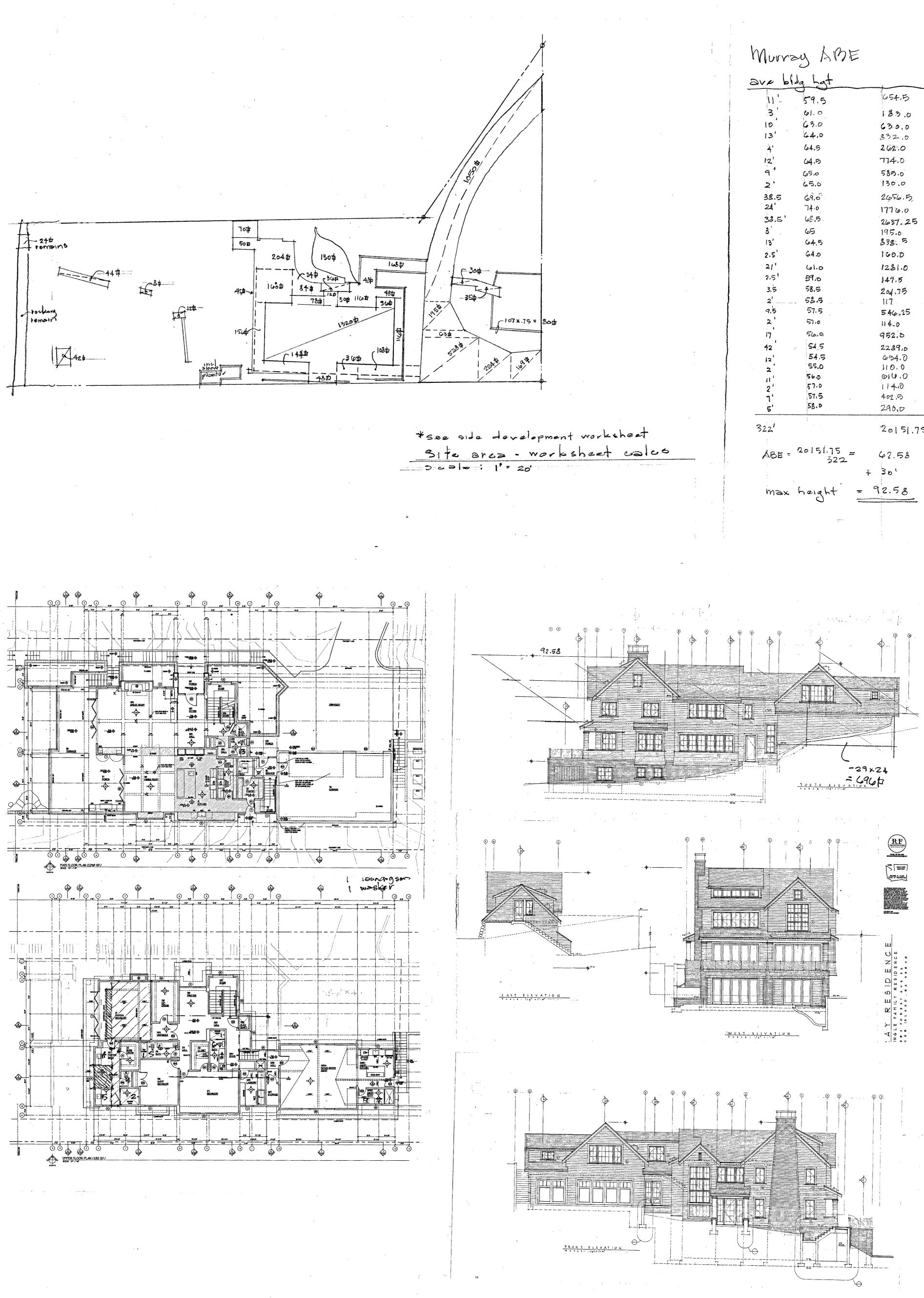


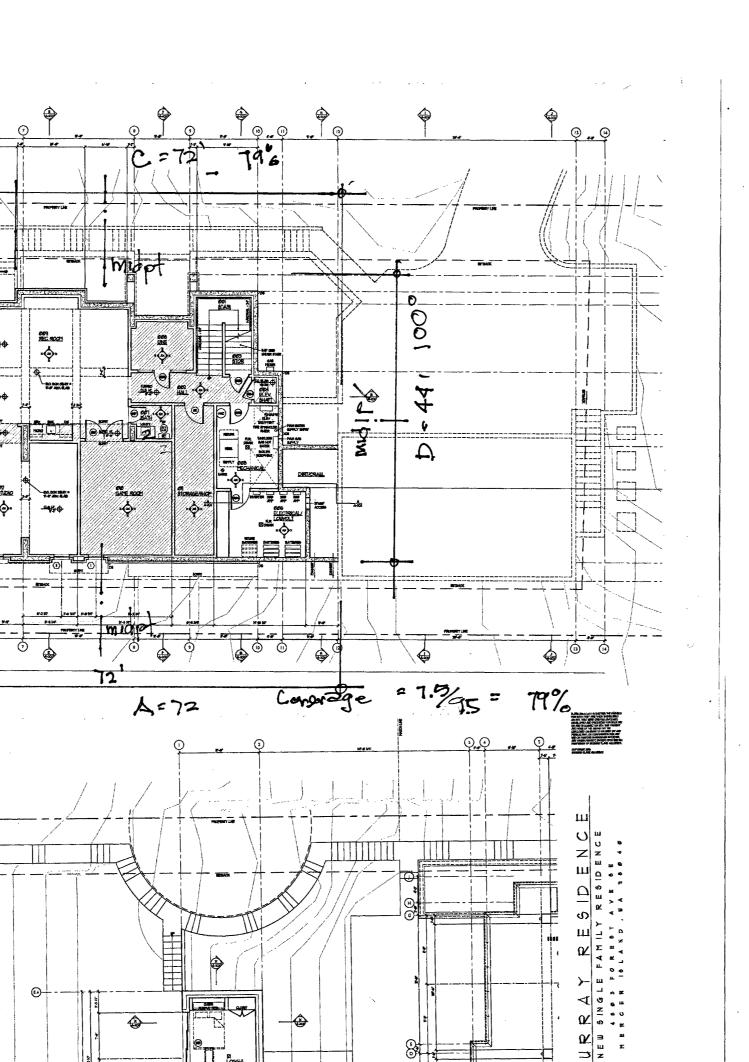




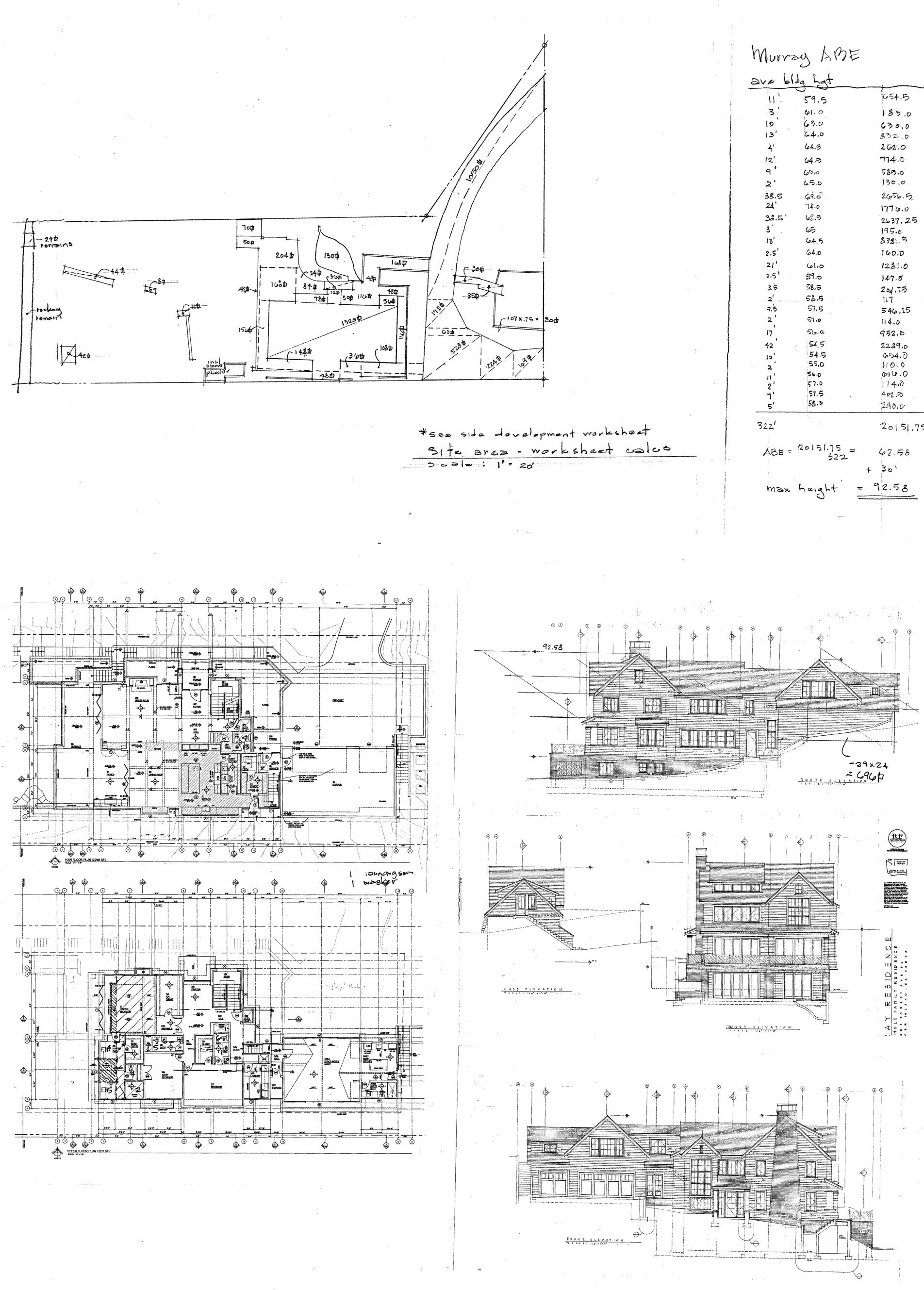
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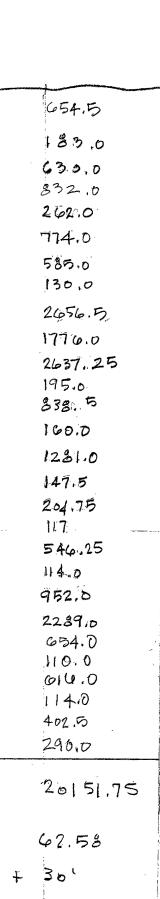
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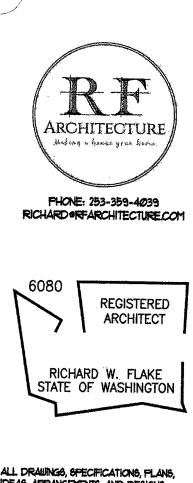




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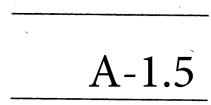


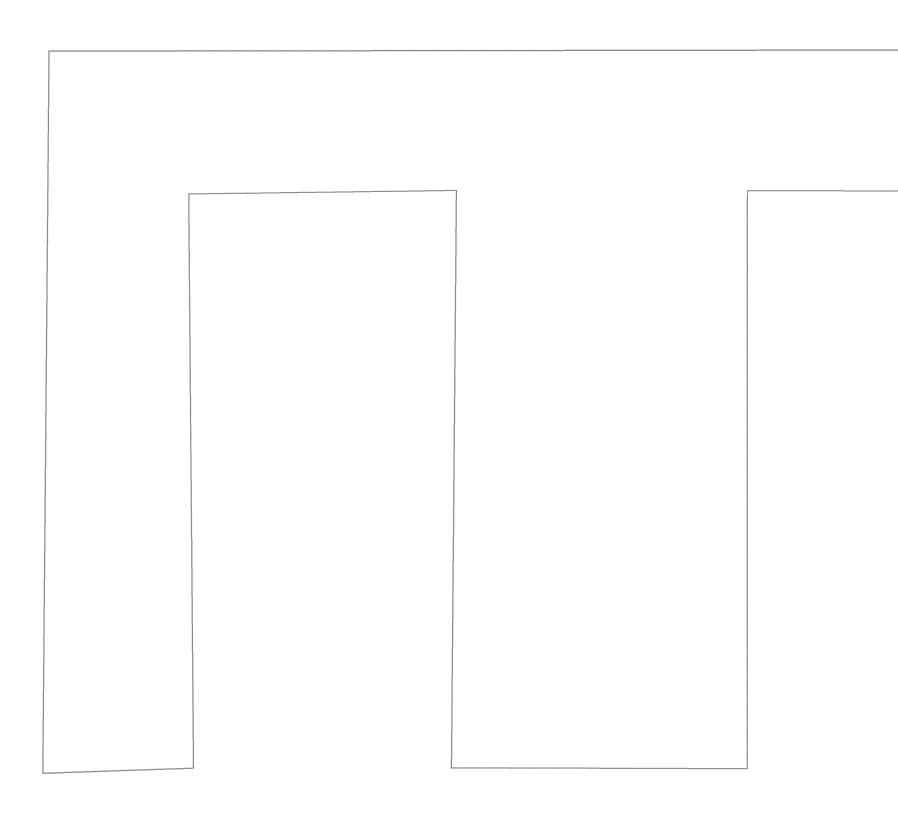


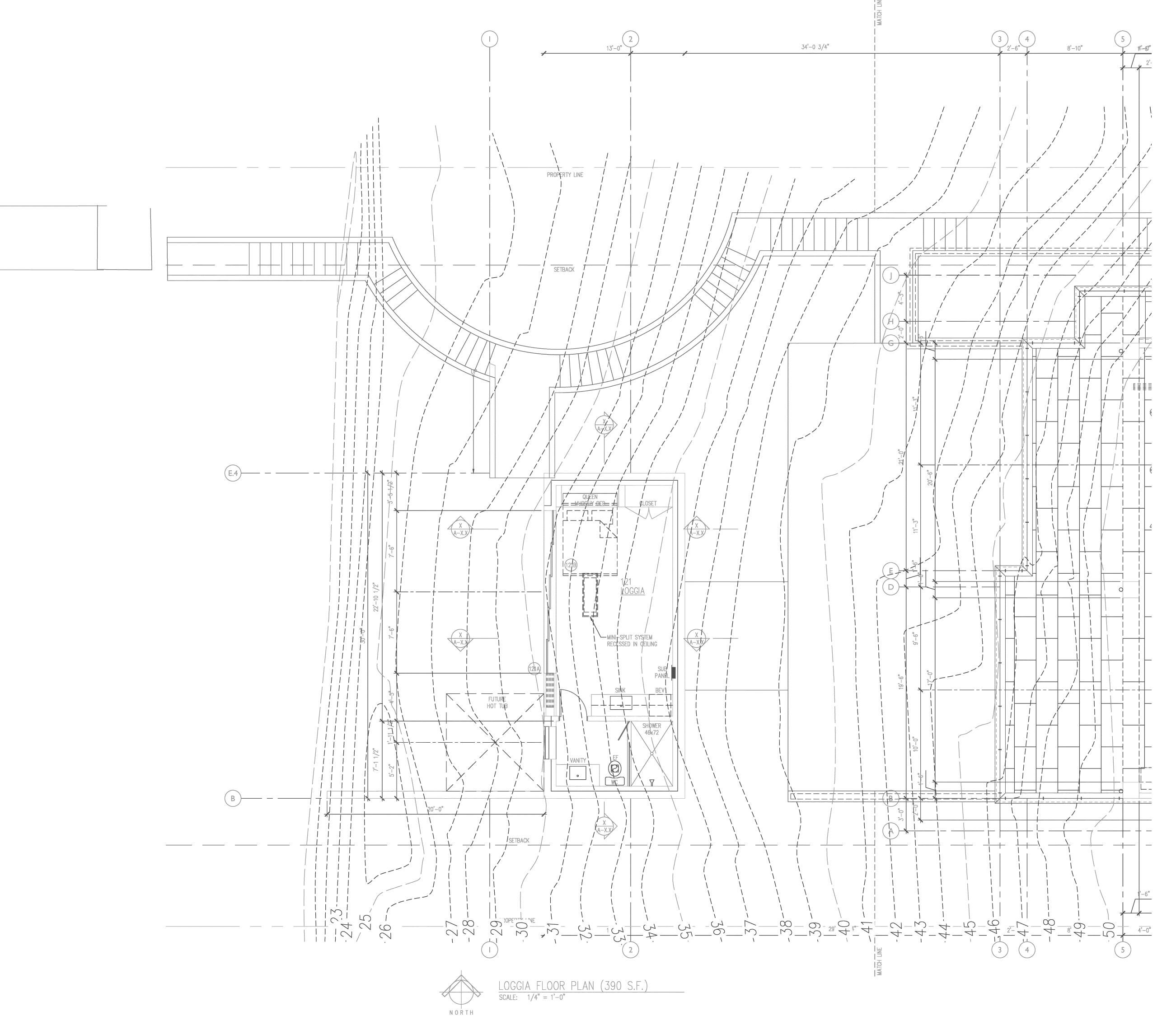
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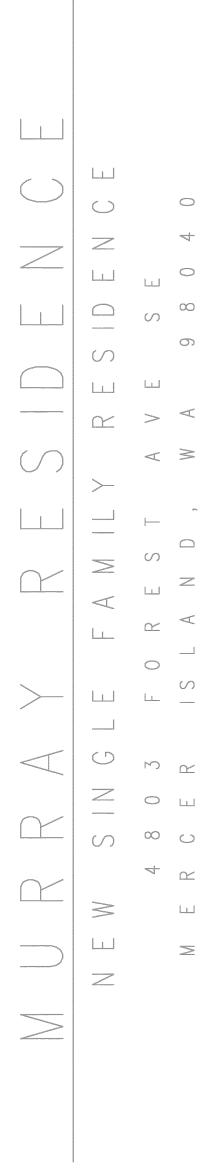


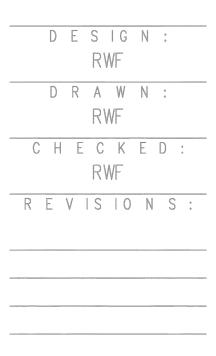


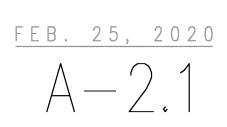


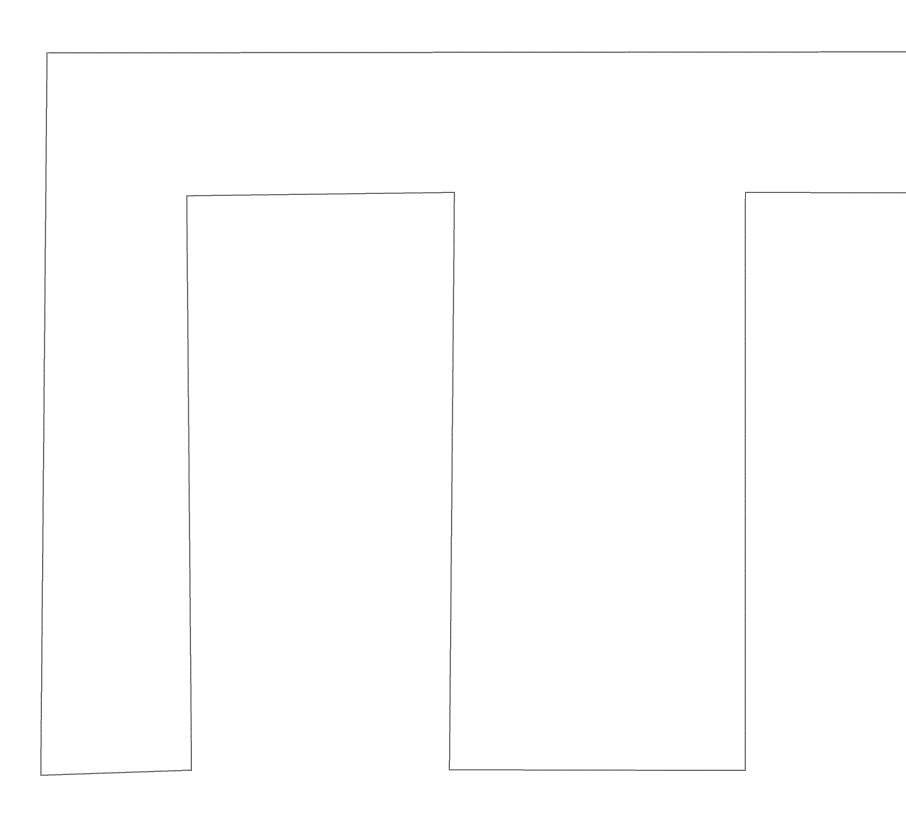
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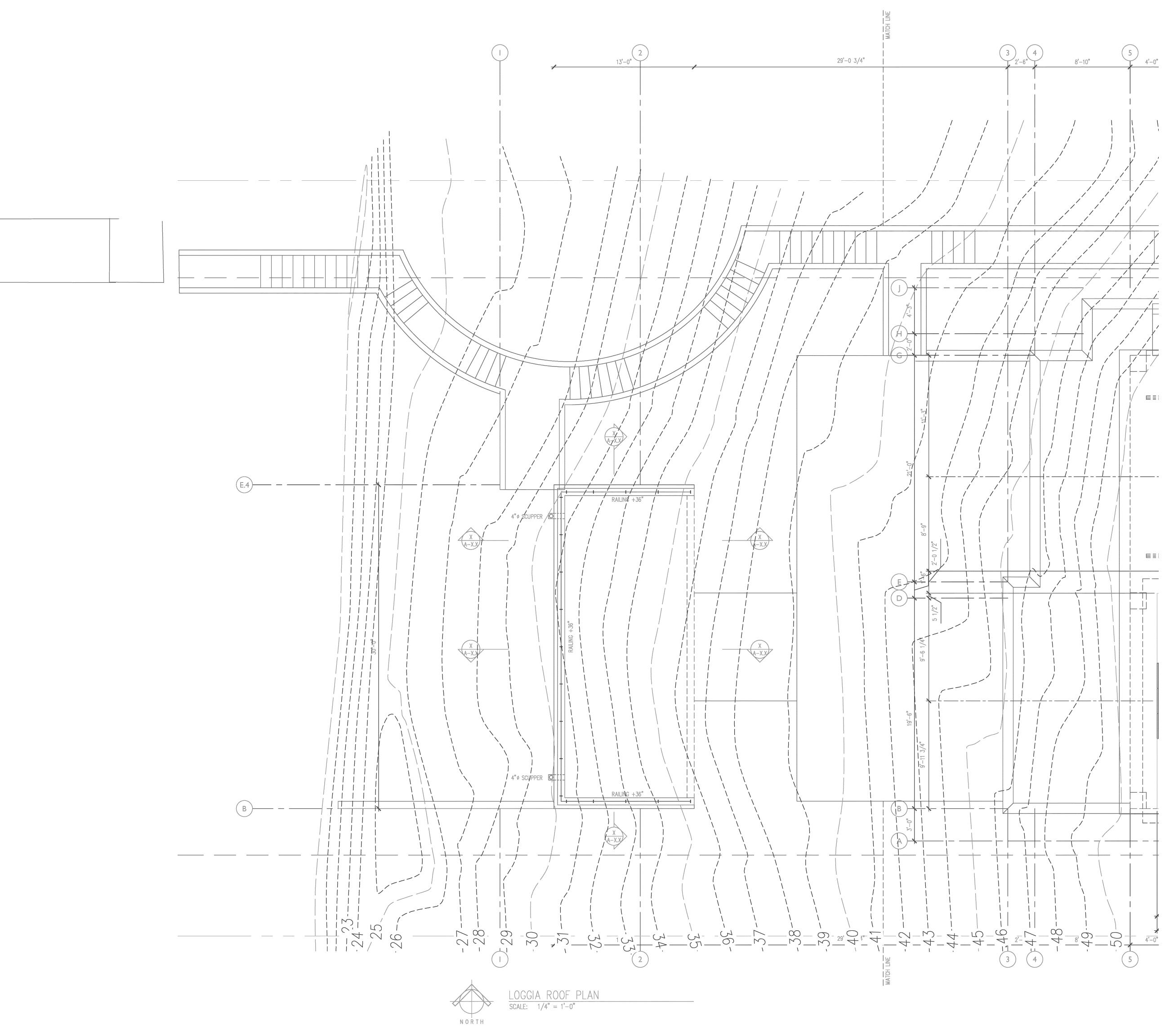
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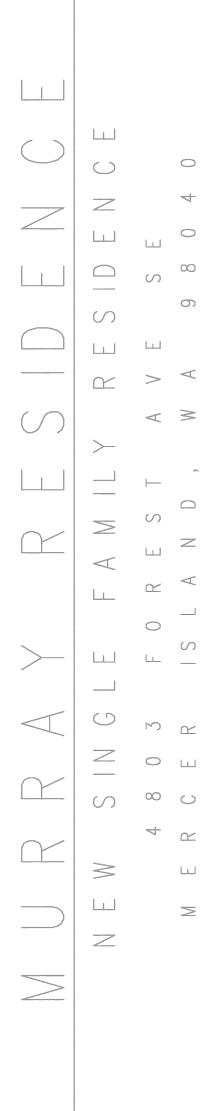


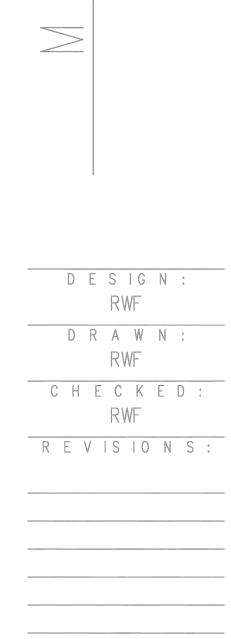


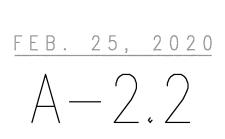
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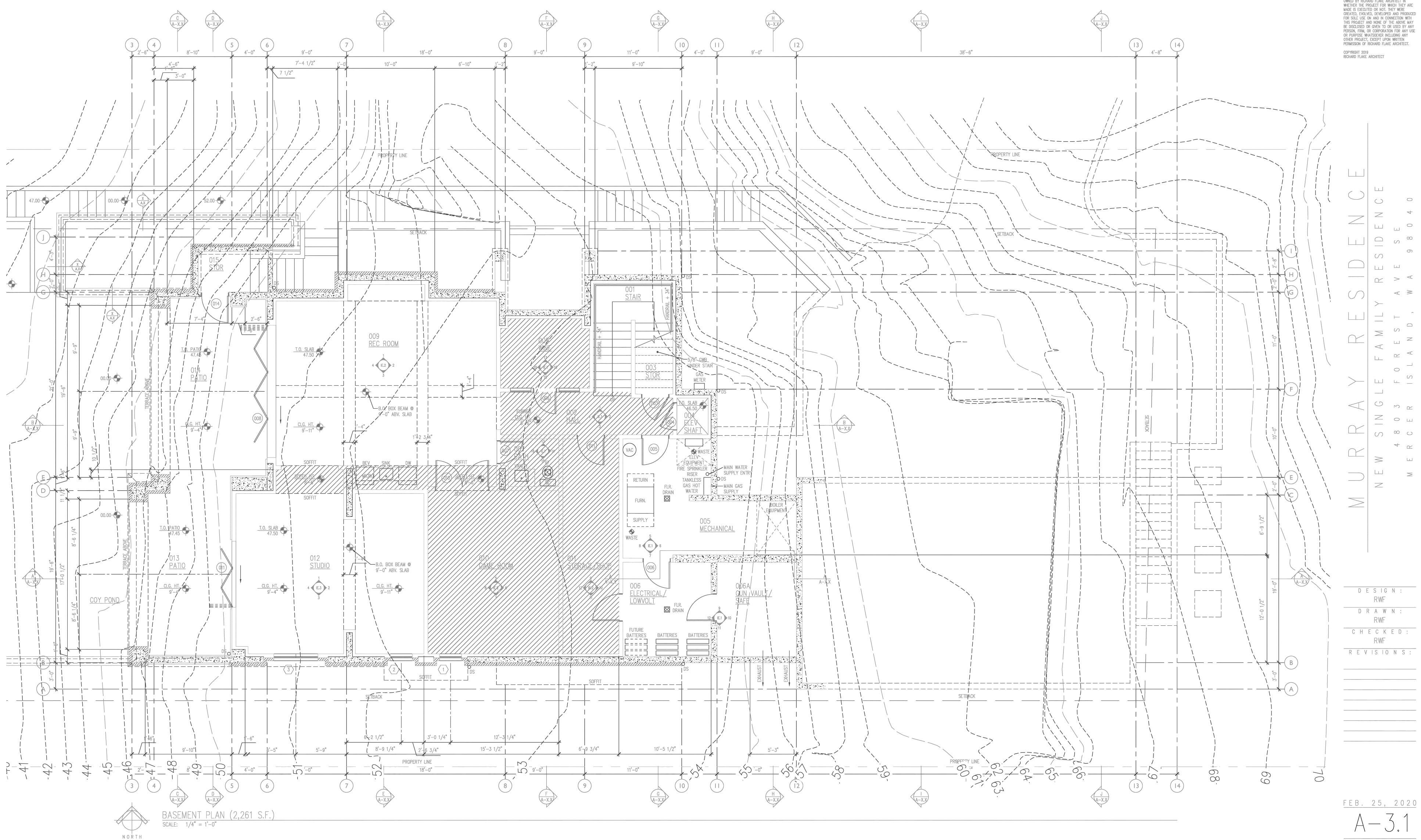
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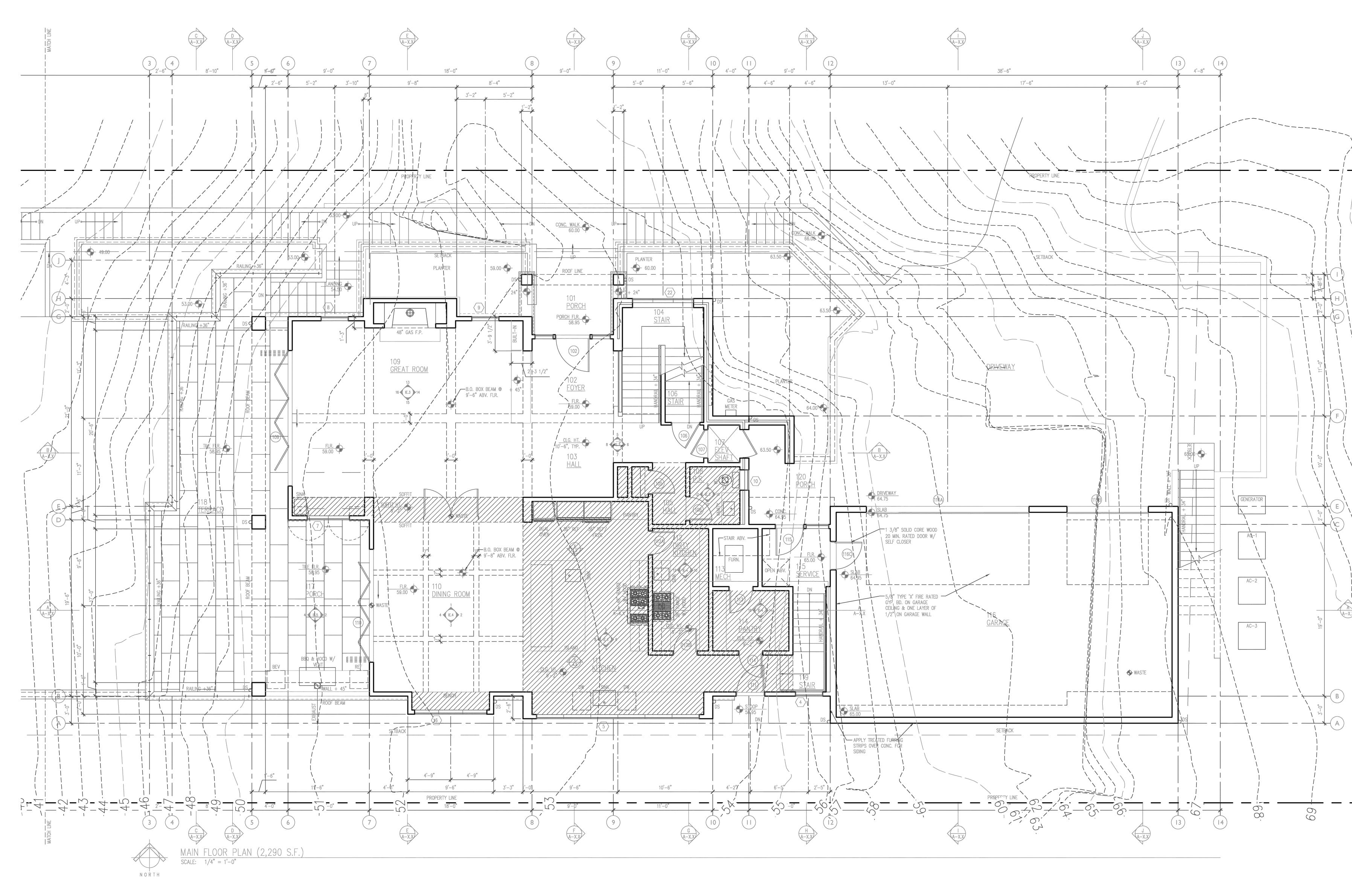


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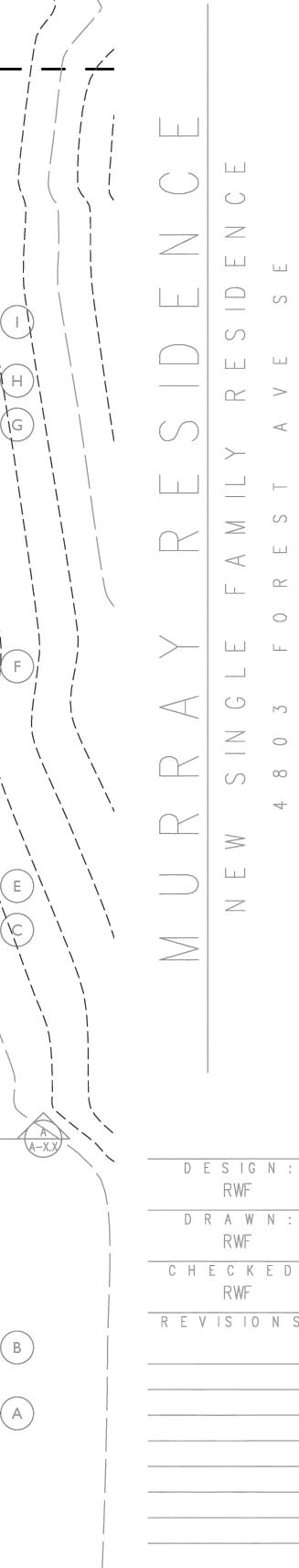
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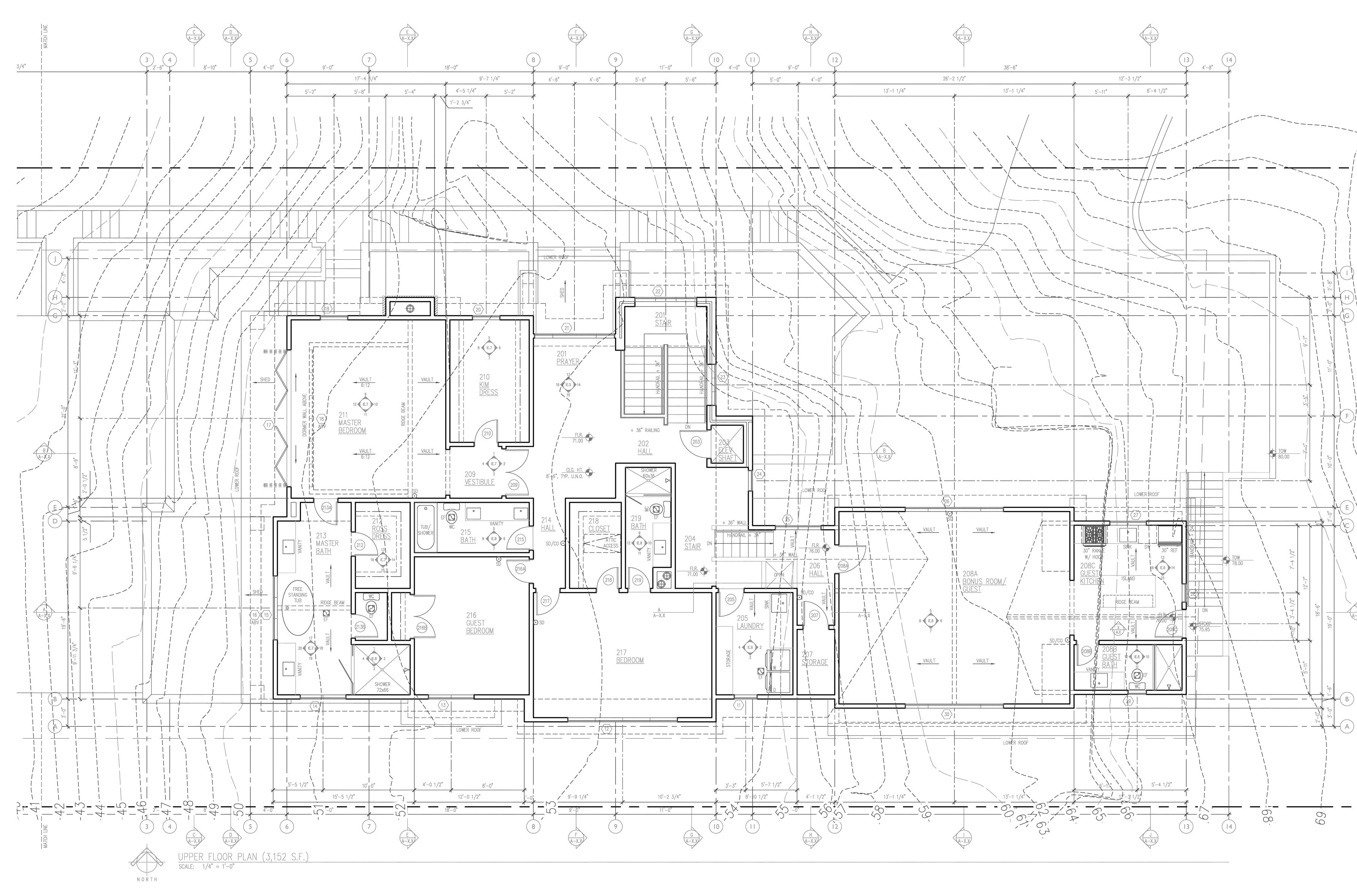
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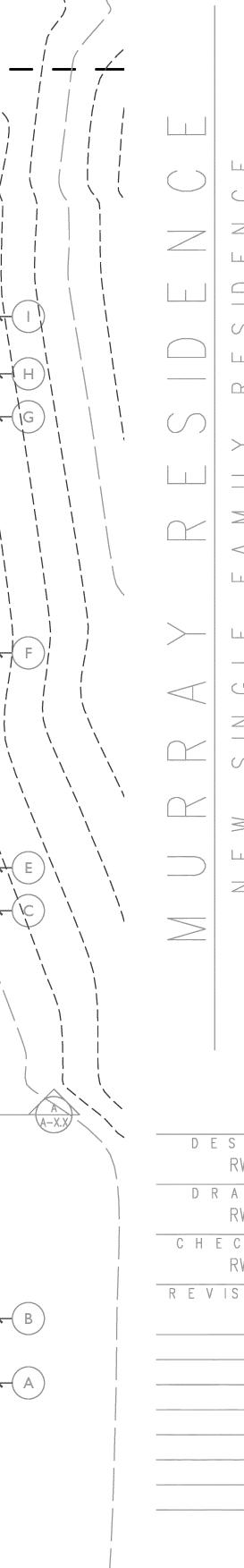
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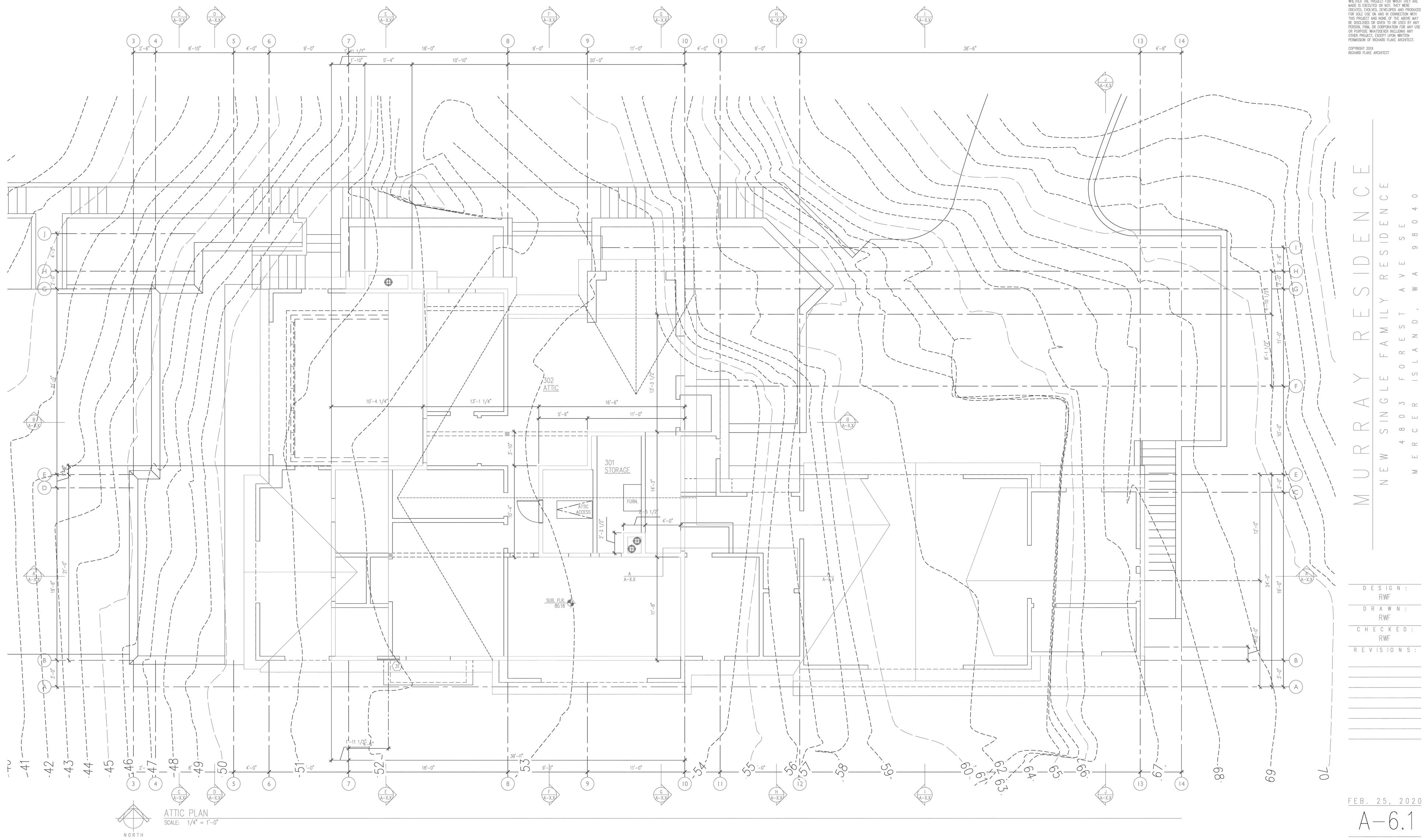
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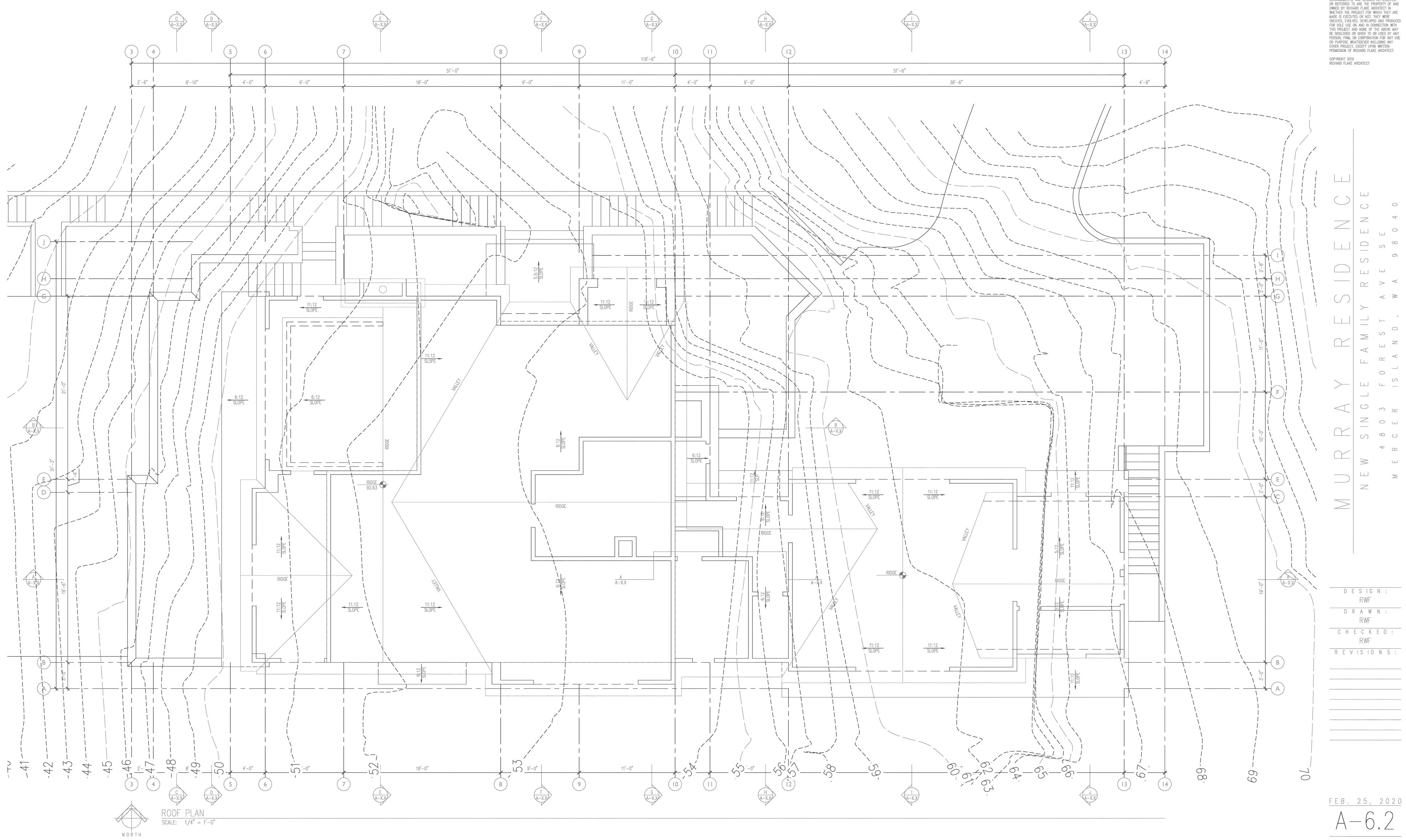


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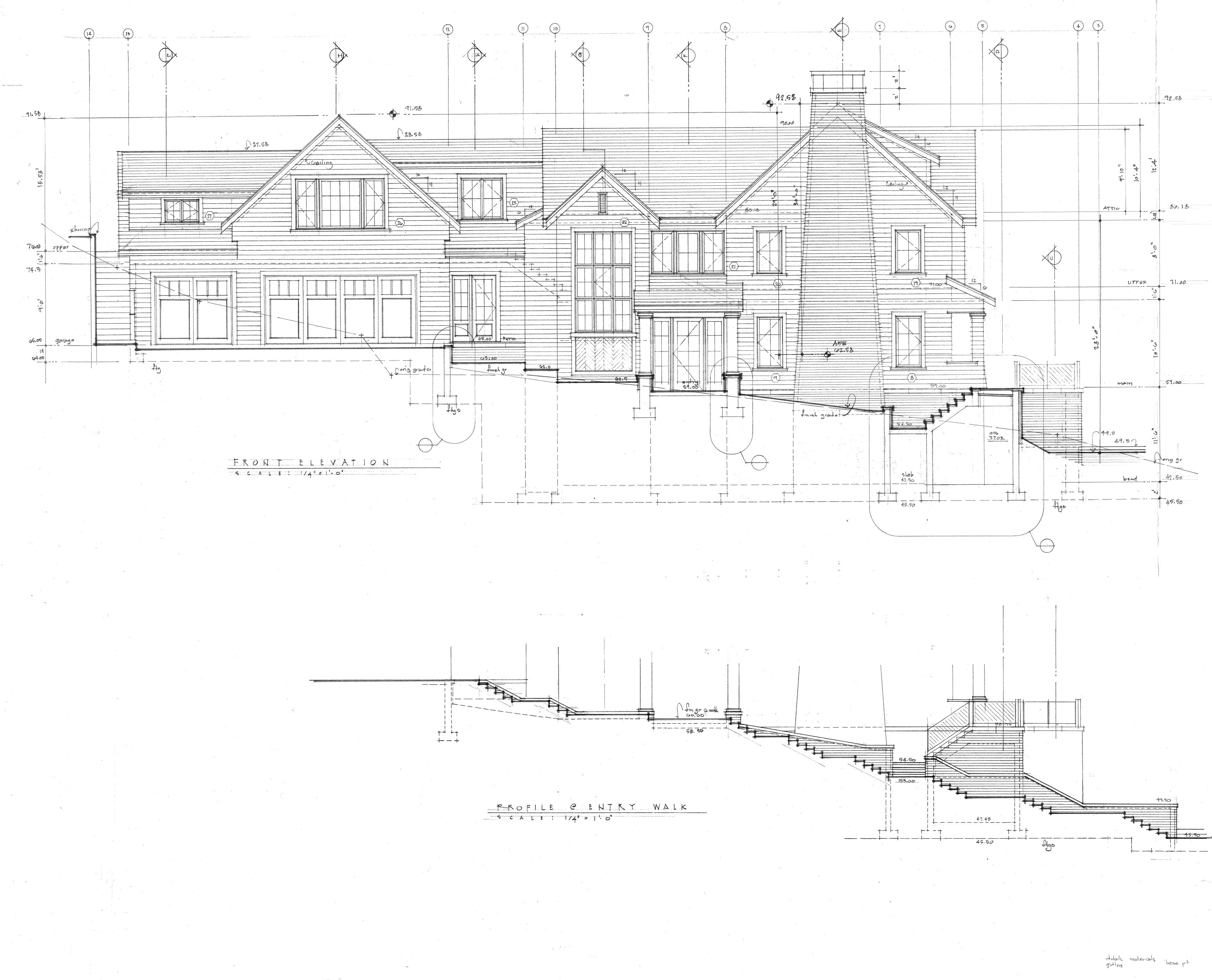


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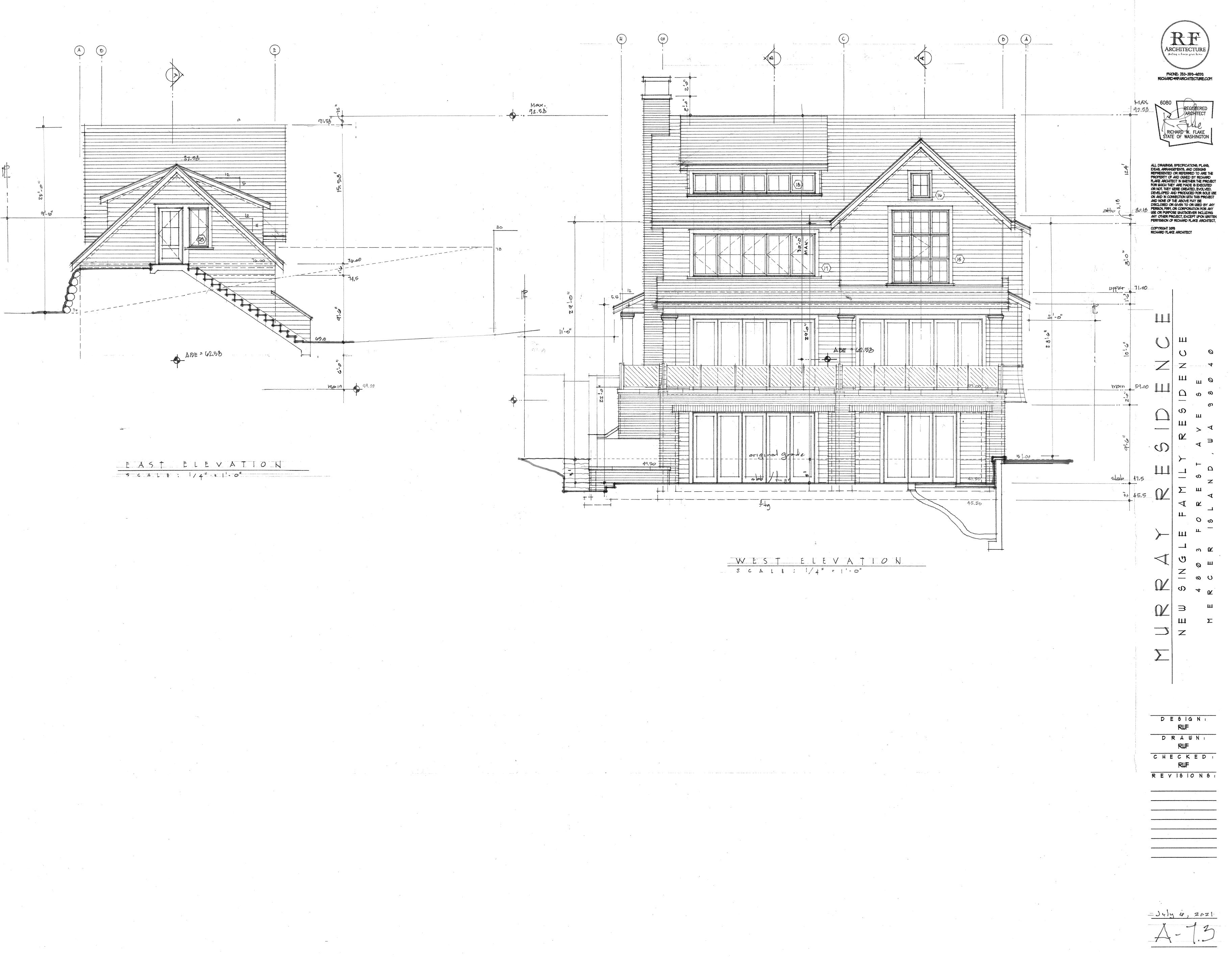
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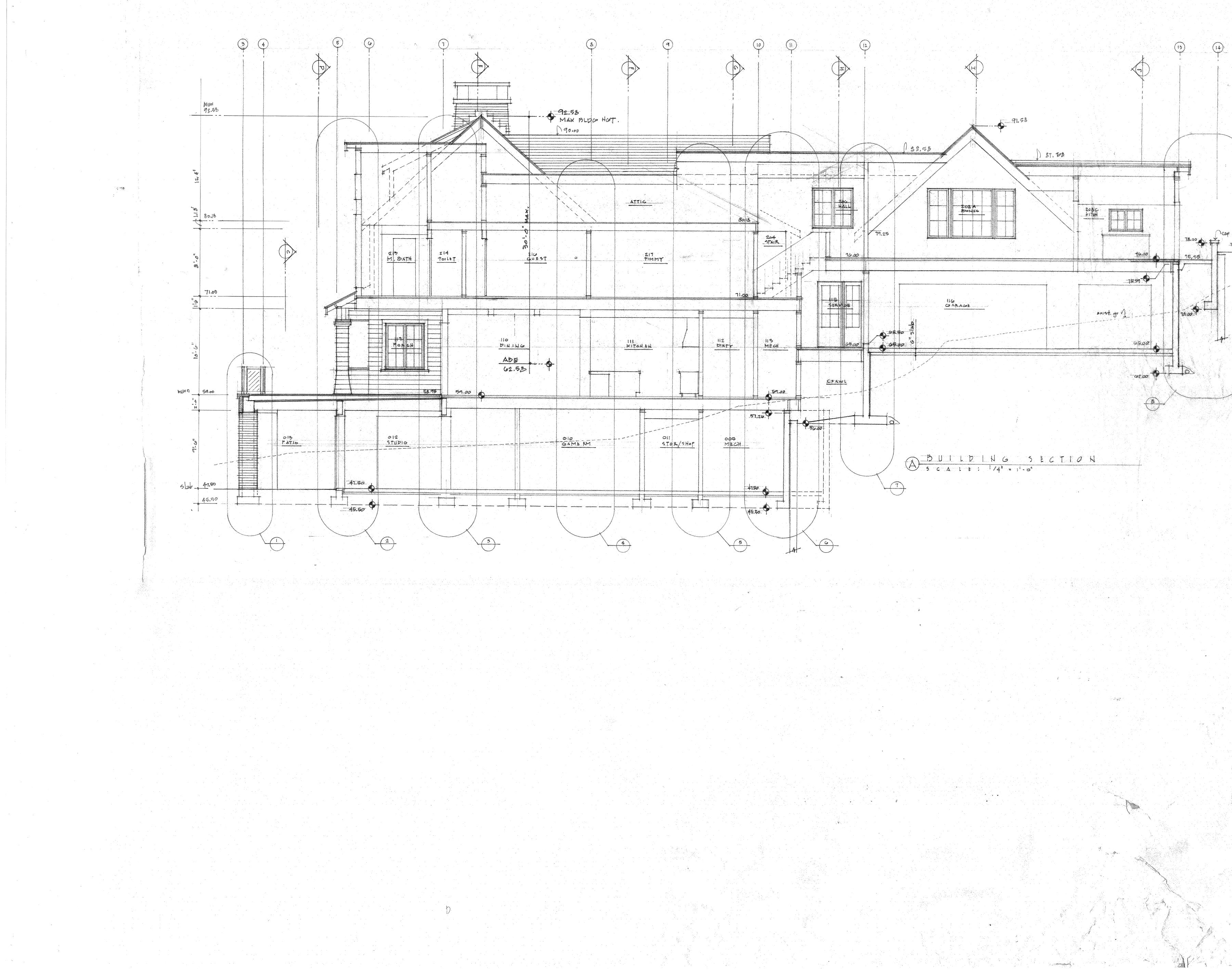
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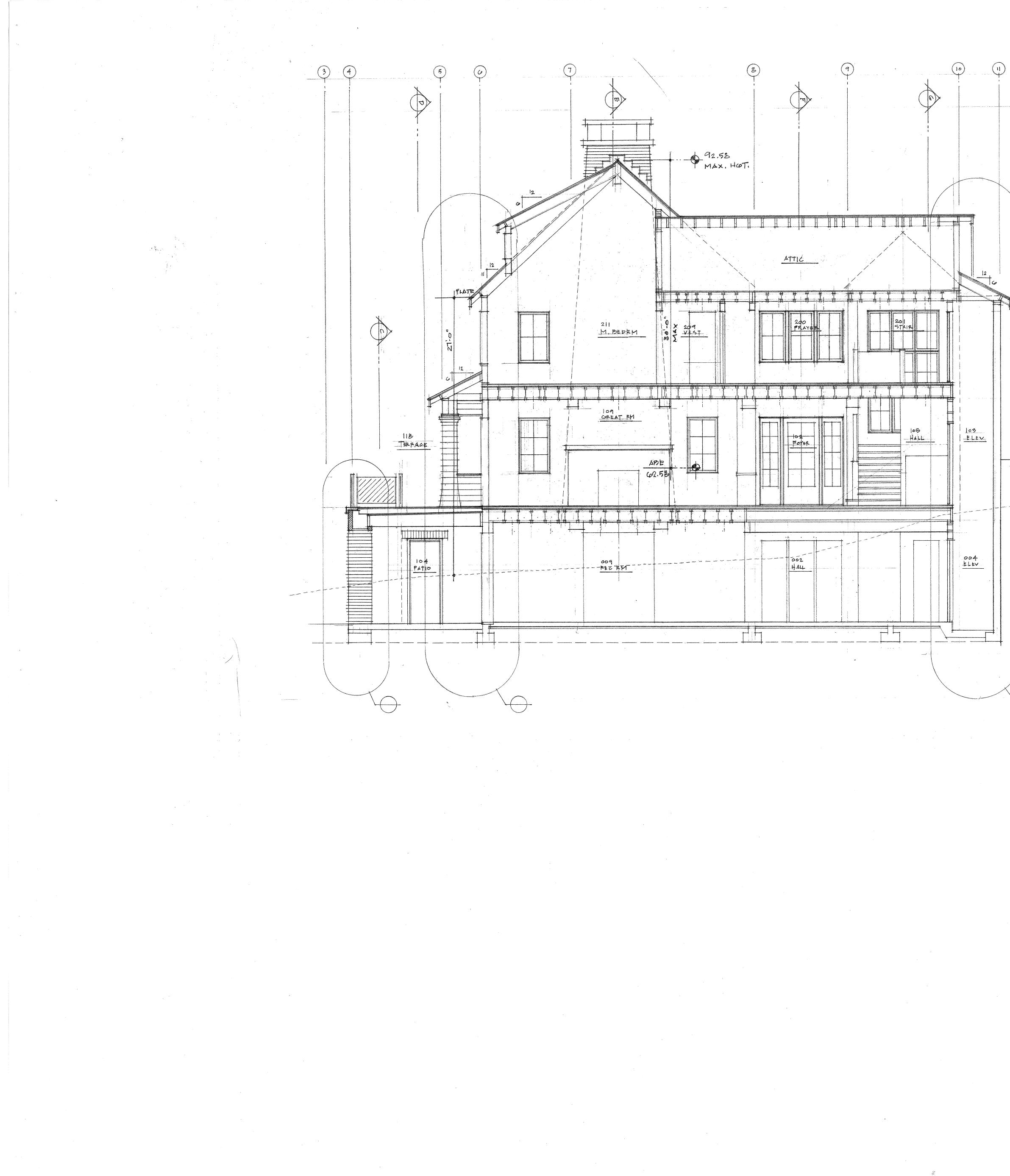
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# BULDING SECTION BSCXLE: 1/4" · 1'-0"

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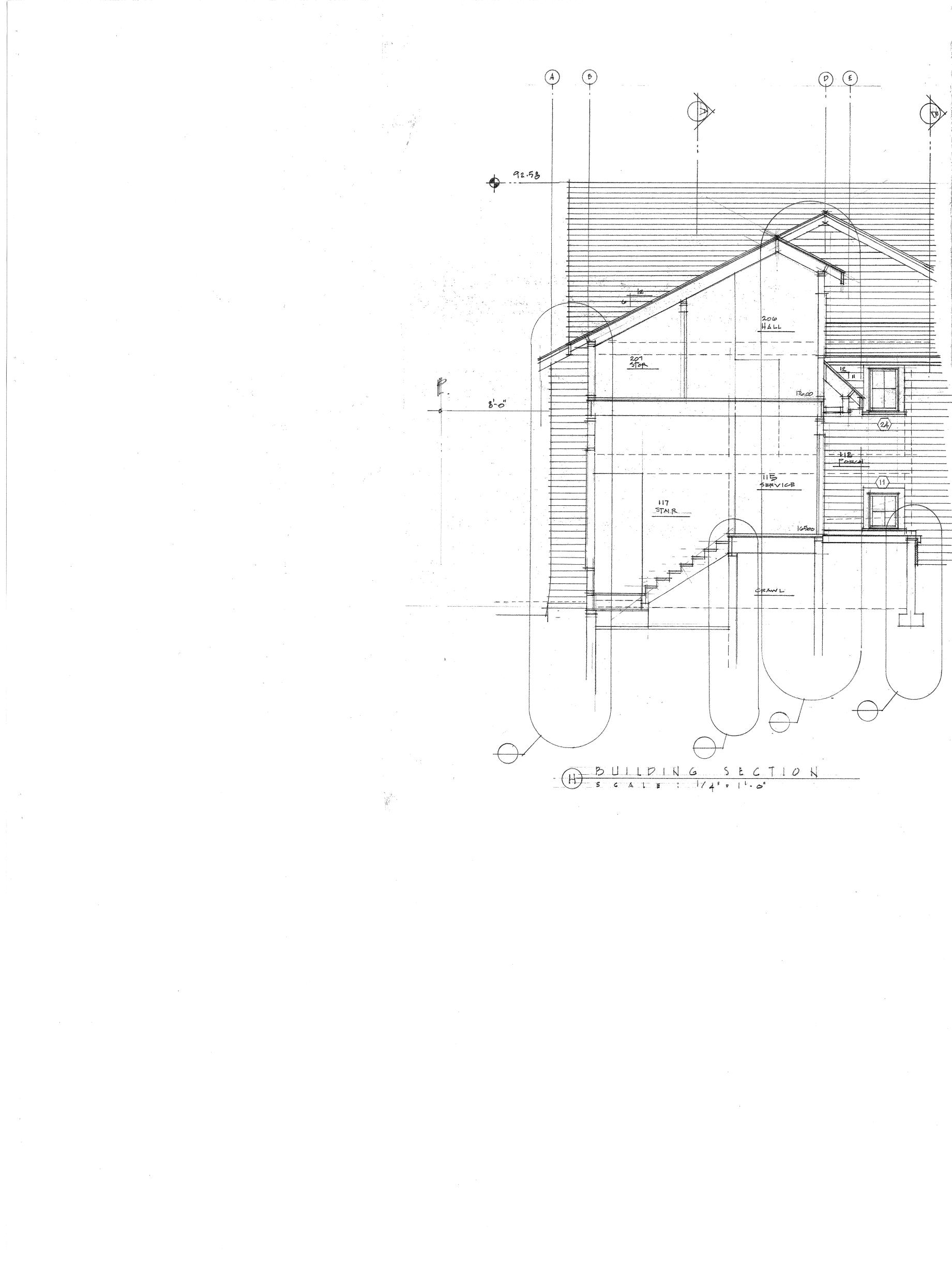
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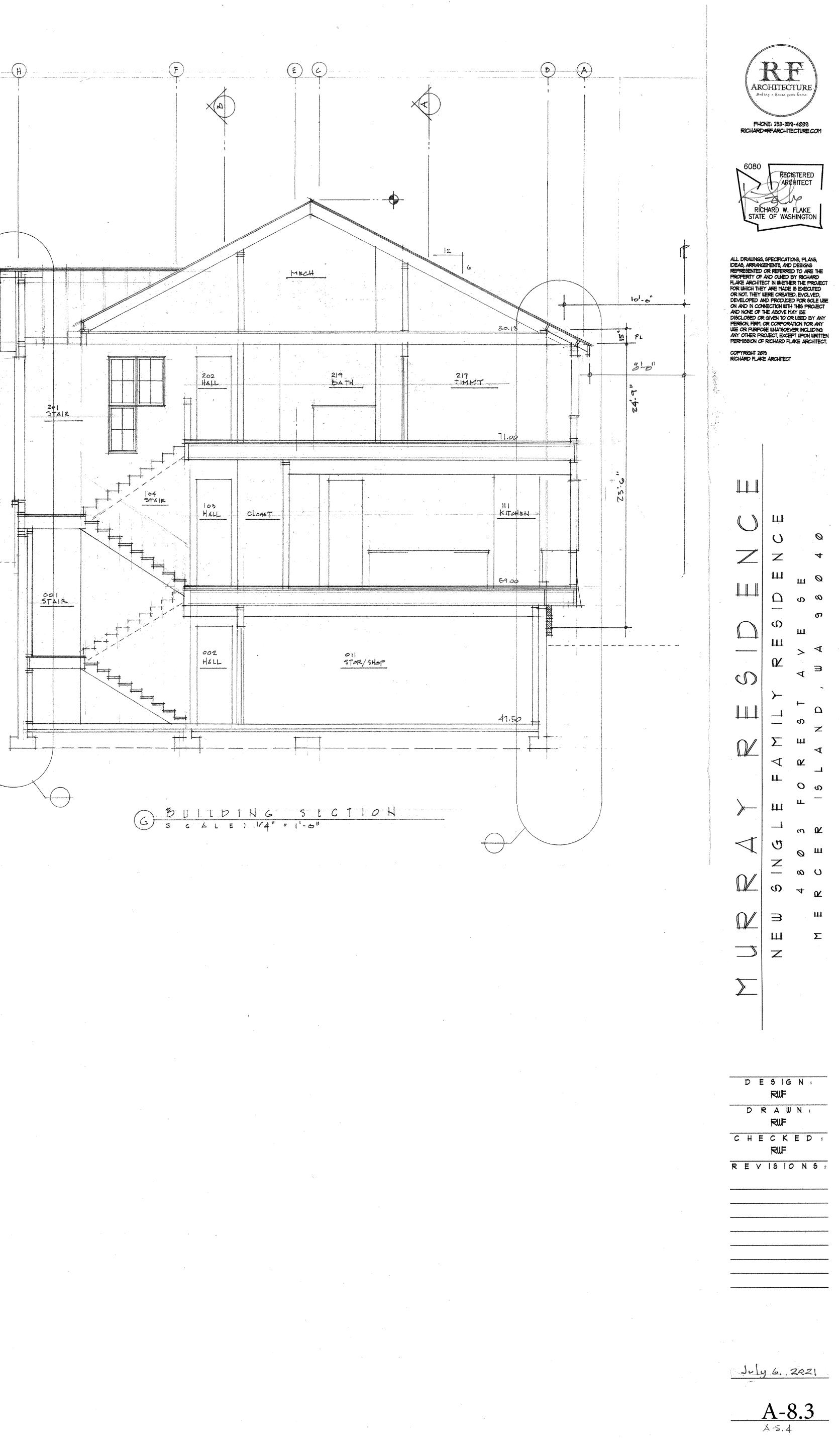
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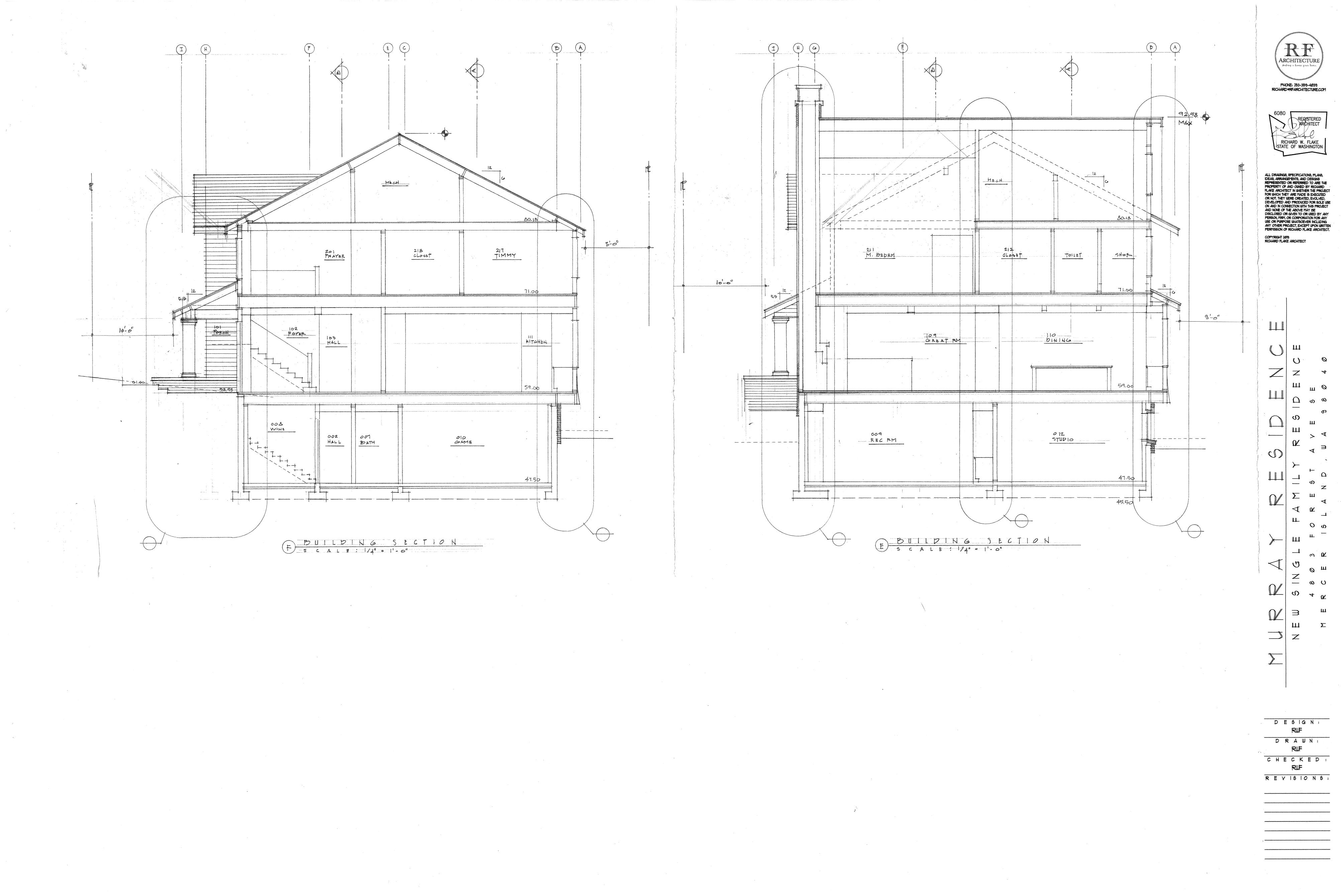
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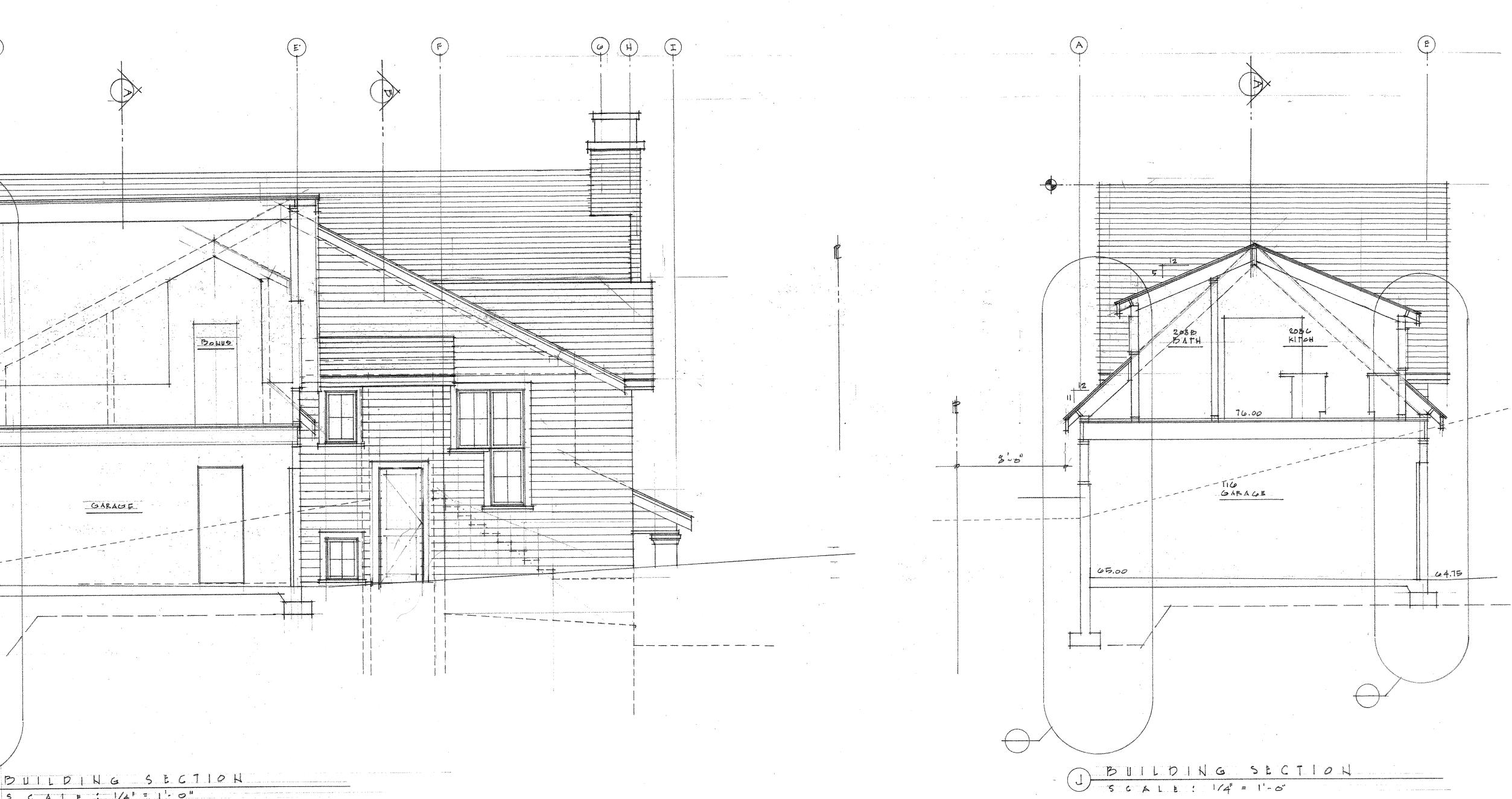




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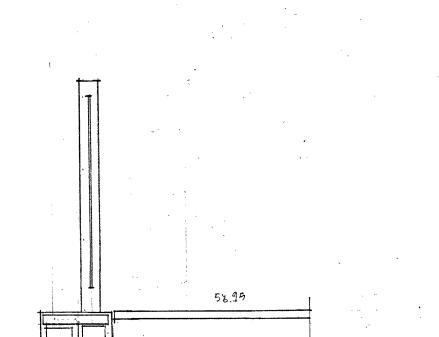
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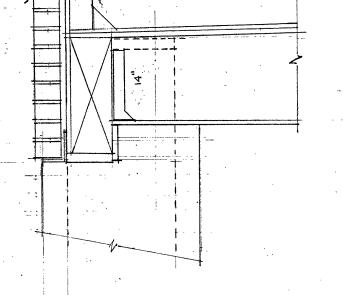
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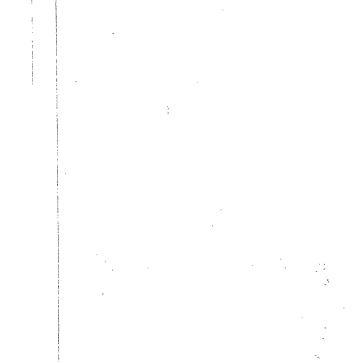






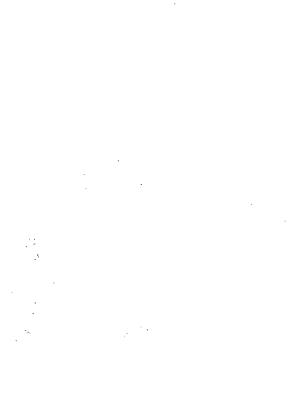


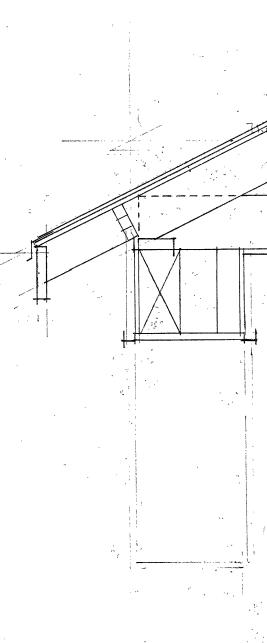


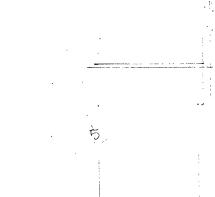


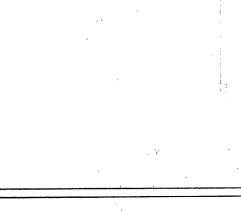
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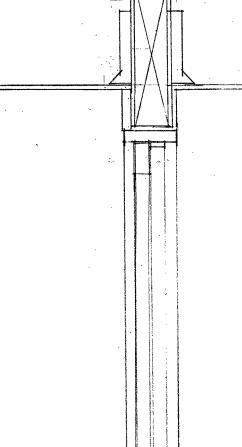
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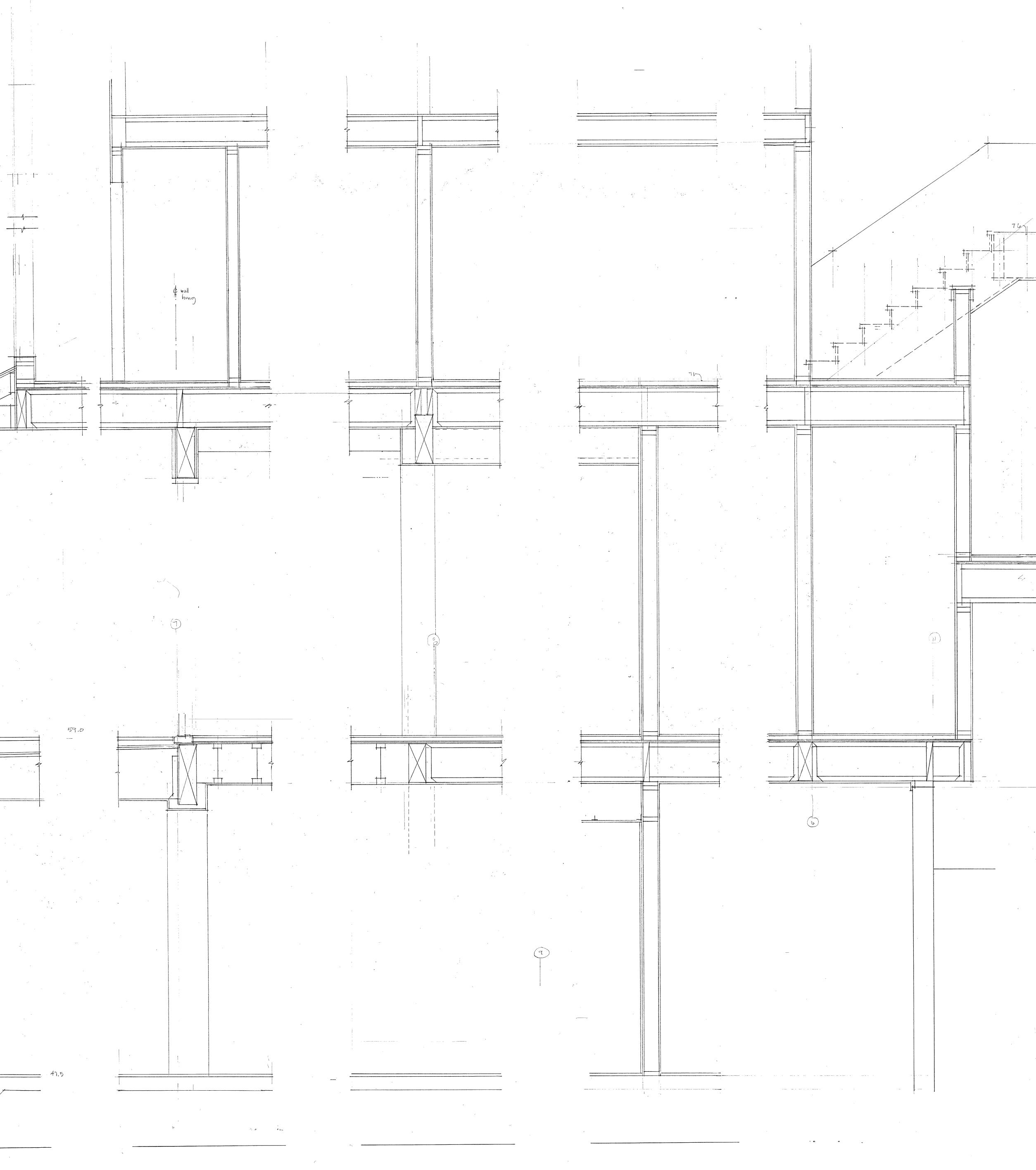












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| his project will use the requirement  |  |  | corporate the  |   |       | Contraction of the second s  | TION<br>2c AIRILEAK  |
| he minimum values listed. In addit<br>umber of additional credits are ch  |  |  |  |   |       |  | Compliance<br>changes per  |
| uthorized Representative  | a "<br>S - "<br>Management of the state of the sta |  | _Date  |   |       |  | Floor R-38   |
| All Clir  | nate Zones<br>R-Value <sup>a</sup>   | U-Factor <sup>a</sup>  |  |   |       |  | Alit whole i<br>Pelow orac<br>Internation<br>With minim  |
| enestration U-Factor <sup>b</sup>   | n/a  | 0.30   |  |   |       |  | Togaling           1b         Feingsele  |
| Skylight U-Factor<br>Blazed Fenestration SHGC <sup>b,e</sup>  | n/a<br>n/a   | 0.50<br>n/a  |  |   |       | R  | J. Branzybeth  |
| ceiling <sup>k</sup>  | 49 <sup>j</sup>  | 0.026  |  |   |       |  | Ba <sup>b</sup> HIGHÆFF<br>Gásil propa<br>Gas: propa<br>To semanty<br>Being selec<br>Being selec<br>Being selec<br>Being selec   |
| Vood Frame Wall <sup>g.m.n</sup><br>⁄Iass Wall R-Value <sup>i</sup>   | 21 int<br>21/21 <sup>h</sup>   | 0.056  |  |   |       | 24   | To qualify<br>Siab on pra<br>being selec<br>Below grad   |
| loor  | 30 <sup>g</sup>  | 0.029  |  |   |       |  | 3b"   HIGH EFF   |
| Below Grade Wall <sup>c.m</sup><br>Slab <sup>d</sup> R-Value & Depth  | 10/15/21 int + TB<br>10, 2 ft  | 0.042<br>n/a   |  |   |       |  | Airesoluce           1c         To T   |
| Table R402.1.1 and Table R402.1.3   |  |  |  | »   | х<br> |  | Bemgrielec<br>Equipment<br>3c <sup>b</sup> HIGHEFF   |
| ach dwelling unit <u>in a residential l</u><br>he following minimum number of c   |  | y with sufficient opt  | ions from Table R40  | 6.2 so as to achiev   | e     |  | Closed flag<br>Floor R-38  |
| 1. Small Dwelling Unit: 1.5 credi   |  | nditioned floor area u   | ith loss than 200 saw  | are feet of feneritati  | ion   |  | Basement<br>Open loop<br>feet and mi   |
| area. Additions to existin<br>square feet.  |  |  |  |   |       |  | 1 To qualify   |
| 2. Medium Dwelling Unit: 3.5 cr   |  | #0 E   |  | s   |       |  | du being selec<br>Complianc<br>-equipment<br>3d <sup>b</sup> HIGHEFF   |
| All dwelling units that are require 2.5 credits.  | not included in #1 or  | #3. Exception: Dwell   | ing units serving K-2  | occupancies snali   |       |  | Ductless Si<br>Vertical fe   |
| 3. Large Dwelling Unit: 4.5 cred<br>Dwelling units exceeding  |  | conditioned floor area.  |  |   |       | *  | 2a AIR TEAK<br>and provide<br>Complianc  |
| 4. Additions less than 500 squa   |  | <b>UVVI UVVI</b>   |  |   |       |  | 2a AIR I FAR<br>ADDITIONAL<br>AIR I FAR<br>AIR I FAR<br>AI |
| Table R406.2 Summary           Option         Description   |  | Credit(s)  |  | ۔<br>چ  |       |  | equipment       4     HIGHEFF       Internation       All heating       watts/cfm?       This includ       Including a       ducts hydr       combustion       To consulty       For forced       being select       Show the g       2b     All I FAS       With mastide       Ducts local       must be mage ne       Ducts local  |
| 1a Efficient Building Envelop   |  | 0.5  |  |   |       |  | This includ<br>including a   |
| 1b Efficient Building Envelop<br>1c Efficient Building Envelop  | e 1c   | 1.0<br>2.0   |  |   |       |  | To enalify<br>For forced   |
| 1d         Efficient Building Envelop           2a         Air Leakage Control and  | Efficient Ventilation 2  | [27] A. L. Altan, K. and K. and K. and K. and K. and K. Altan, A. M. Altan, M. M. Altan, M. M. Altan, M. M. Altan, M. Altan, M.  |  | 0.5   |       | *  | being selec<br>supply duc<br>show the q<br>outside the   |
| 2b         Air Leakage Control and           2c         Air Leakage Control and   |  |  |  |   |       |  | 2b Aip LEAS<br>with mastric<br>must be mastric   |
| 3a High Efficiency HVAC 3a<br>3b High Efficiency HVAC 3b  |  | 1.0  |  | 1.0   |       |  | Diarts 1828<br>Producting sy<br>Oplications  |
| 3c High Efficiency HVAC 3c<br>3d High Efficiency HVAC 3d  |  | 1.5  |  |   |       |  | ophiothole i<br>Electric res   |
| 4 High Efficiency HVAC Dis  | stribution System  | 1.0  |  | 1.0   |       |  | Electric res<br>with minin<br>Direct com<br>To quality<br>under this of<br>being selec<br>To qualify<br>show up of<br>being selec  |
| 5a Efficient Water Heating 5<br>5b Efficient Water Heating 5  | b  | 0.5  |  | 0.5   |       |  | To qualify<br>Show us a<br>being selec   |
| 5c         Efficient Water Heating 5           5d         Efficient Water Heating 5   | والمراجعة والمتحاص والمتحص والمتحد والمتحاذ والمتحاذ والمتحاد والمتحص والمتحاص والمحاص والمحاد والمحاد   | 1.5<br>0.5   |  | 1.5   |       |  | location of  |
| 6 Renewable Electric Energ  | ЭУ   | 0.5  | *1200 kv   | vh 0.0<br><b>4.50</b>   |       |  | 105  |
| Please refer to Table R406.2 for com<br>ple Heating System Size: Washi<br>heating system sizing calculator is based of  | ngton State  | ements of the 2015 Washi   | ngton State Energy Code  | (WSEC) and ACCA   |       | Wind   | ow, Skylight and   |
| Tple Heating System Size: Washi<br>heating system sizing calculator is based or<br>uals J and S. This calculator will calculate h<br>s.<br>se fill out all of the green drop-downs and b  | ngton State<br>n the Prescriptive Require<br>eating loads only. ACCA p<br>oxes that are applicable to  | ements of the 2015 Washi<br>procedures for sizing cooli  | ing systems should be use  | ed to determine cooling<br>owns for each section,   |       | 1 (1 - A)  | ow, Skylight and<br>Information  |
| <b>Tple Heating System Size: Washi</b><br>heating system sizing calculator is based or<br>uals J and S. This calculator will calculate h<br>s.<br>se fill out all of the green drop-downs and be<br>e values will be calculated for you. If you do<br>gram at (360) 956-2042 for assistance.  | ngton State<br>n the Prescriptive Require<br>eating loads only. ACCA p<br>oxes that are applicable to  | ements of the 2015 Washi<br>procedures for sizing cooli<br>o your project. As you mal<br>need in the drop-down of  | ing systems should be use<br>ke selections in the drop-d<br>otions, please call the WS   | ed to determine cooling<br>owns for each section,   |       | Projeci  | Information  |
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As you main<br>ineed in the drop-down of<br>Contact Inform<br>(e) Heat Pump<br>word "Instructions".<br>Design Tem<br>ΔT = Indoor (1)<br>(11.5<br>(0.93)<br>(11.5)<br>(0.93)<br>(11.5)<br>(0.93)<br>(11.5)<br>(0.93)<br>(0.1)<br>(0.30)<br>(0.1)<br>(0.26)<br>(0.1)<br>(0.26)<br>(0.1)<br>(0.26)<br>(0.1)<br>(0.26)<br>(0.1)<br>(0.26)<br>(0.1)<br>(0.26)<br>(0.1)<br>(0.26)<br>(0.1)<br>(0.26)<br>(0.1)<br>(0.26)<br>(0.1)<br>(0.26)<br>(0.1)<br>(0.26)<br>(0.1)<br>(0.26)<br>(0.1)<br>(0.26)<br>(0.1)<br>(0.26)<br>(0.1)<br>(0.26)<br>(0.1)<br>(0.26)<br>(0.1)<br>(0.26)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0.1)<br>(0. | ing systems should be use<br>ke selections in the drop-d<br>perature Difference ( $\Delta$ T)<br>to degrees) - Outdoor Design Temp<br>Conditioned Volume<br>93,070<br>X Area =<br>1,544 46<br>X Area =<br>0<br>X Area =<br>1,544 46<br>X Area =<br>0<br>X Area =<br>1,837 4<br>X Area =<br>1,476 3<br>X Area =<br>1,003 4<br>Area =<br>1,00   | 45<br>UA<br>45<br>UA<br>33.17<br>UA<br>33.17<br>UA<br>7.76<br>UA<br>9.85<br>UA<br>16.12<br>UA<br>9.85<br>UA<br>16.12<br>UA<br>9.85<br>UA<br>16.12<br>UA<br>9.85<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10 |       | Project<br>Murra<br>Exem<br>Exe  | t Information<br>Ay<br>hpt Swinging Door<br>mpt Glazed Fenes<br>cal Fenestration (<br>Cc   |
| <b>Piple Heating System Size: Washi</b> heating system sizing calculator is based on uals J and S. This calculator will calculate he set on the values will be calculated for you. If you do gram at (360) 956-2042 for assistance.         Project Information         Murray         Instructions for each section <b>Design Temperature</b> Instructions         Conditioned Floor Area         Instructions         Out and Doors         Instructions         Instructions         Querce Gailing Height         Instructions         Instructions         R-49         Single Rafter or Joist Vaulted         Instructions         R-38 Vented         Above Grade Walls (see Figure 1)         Instructions       R-21 Intermed         Floors       Instructions         Instructions       Select R-value         Below Grade (see Figure 1)       Instructions         Instructions       Select conditi         Siab Below Grade (see Figure 1)  | ngton State n the Prescriptive Require eating loads only. ACCA provide the selection you over the selection and the selection area (sq ft) and Height (ft) Ceilings iate   | ements of the 2015 Washi<br>procedures for sizing cool<br>o your project. As you mal<br>meed in the drop-down op<br>Contact Inform<br>(e) Heat Pump<br>word "Instructions".<br>Design Tem<br>ΔT = Indoor (0)<br>8,093<br>11:<br>U-Factor<br>0.300<br>U-Factor<br>0.300<br>U-Factor<br>0.026<br>U-Factor<br>0.026<br>U-Factor<br>0.026<br>U-Factor<br>0.027<br>U-Factor<br>0.026<br>U-Factor<br>0.026<br>U-Factor<br>0.027<br>U-Factor<br>0.042<br>F-Factor<br>0.042<br>F-Factor<br>0.042<br>F-Factor<br>0.042<br>F-Factor<br>0.042<br>F-Factor<br>0.042<br>F-Factor<br>0.042<br>F-Factor<br>0.042<br>F-Factor<br>0.042<br>F-Factor<br>0.042<br>F-Factor<br>0.042<br>F-Factor<br>0.042<br>F-Factor<br>0.042<br>F-Factor<br>0.042<br>F-Factor<br>0.042<br>F-Factor<br>0.042<br>F-Factor<br>0.042<br>F-Factor<br>0.042<br>F-Factor<br>0.042<br>F-Factor<br>0.042<br>F-Factor<br>0.042<br>F-Factor<br>0.042<br>F-Factor<br>0.040<br>F-Factor<br>0.040<br>F-Factor<br>0.040<br>F-Factor<br>0.040<br>F-Factor<br>0.040<br>F-Factor<br>0.040<br>F-Factor<br>0.040<br>F-Factor<br>0.040<br>F-Factor<br>0.040<br>F-Factor<br>0.040<br>F-Factor<br>0.040<br>F-Factor<br>0.040<br>F-Factor<br>0.040<br>F-Factor<br>0.040<br>F-Factor<br>0.040<br>F-Factor<br>0.040<br>F-Factor<br>0.040<br>F-Factor<br>0.040<br>F-Factor<br>0.040<br>F-Factor<br>0.040<br>F-Factor<br>0.040<br>F-Factor<br>0.040<br>F-Factor<br>0.040<br>F-Factor<br>0.040<br>F-Factor<br>0.040<br>F-Factor<br>0.040<br>F-Factor<br>0.040<br>F-Factor<br>0.040<br>F-Factor<br>0.040<br>F-Factor<br>0.040<br>F-Factor<br>0.040<br>F-Factor<br>0.040<br>F-Factor<br>0.040<br>F-Factor<br>0.040<br>F-Factor<br>0.050   | ing systems should be use<br>ke selections in the drop-d<br>perature Difference ( $\Delta$ T)<br>a degrees) - Outdoor Design Temp<br>Conditioned Volume<br>93,070<br>X Area =<br>1,544 46<br>X Area =<br>0<br>X Area =<br>0<br>X Area =<br>1,837 4<br>X Area =<br>1,837 3<br>X Area =<br>1,837 3<br>X Area =<br>1,00<br>X Area =<br>1,00<br>Area =<br>1,00<br>Are | 45<br>45<br>45<br>45<br>45<br>45<br>45<br>45<br>45<br>45  |       | Project<br>Murra<br>Exem<br>Exe  | t Information<br>Ay<br>hpt Swinging Door<br>mpt Glazed Fenes<br>cal Fenestration (<br>Cc   |
| <b>pple Heating System Size: Washi</b> heating system sizing calculator is based or         uals J and S. This calculator will calculate hese         se fill out all of the green drop-downs and be evalues will be calculated for you. If you do gram at (360) 956-2042 for assistance.         Project Information         Murray         Heating System Type:         To see detailed instructions for each section         Design Temperature         Instructions         Conditioned Floor Area         Instructions         Conditioned Floor Area         Instructions         Conditioned Floor Area         Instructions         Conditioned Floor Area         Instructions         U-0.30         Skylights         Instructions         Instructions         Instructions         R-39         Single Rafter or Joist Vaulted         Instructions         R-39         Single Rafter or Joist Vaulted         Instructions         R-30 Verage Ceiling         Above Grade Walls (see Figure 1)         Instructions         R-21 Interior         Siab Below Grade (see Figure 1)         Instructions       Select conditi   | ngton State n the Prescriptive Require eating loads only. ACCA provide the selection you over the selection and the selection area (sq ft) and Height (ft) Ceilings iate   | ements of the 2015 Washin<br>procedures for sizing cooling<br>or your project. As you main<br>need in the drop-down of<br><i>Contact Inform</i><br>(e) Heat Pump<br>word "Instructions".<br>Design Tem<br>AT = Indoor (The second  | ing systems should be use<br>ke selections in the drop-d<br>perature Difference ( $\Delta$ T)<br>a degrees) - Outdoor Design Temp<br>Conditioned Volume<br>93,070<br>X Area =<br>1,544 46<br>X Area =<br>0<br>X Area =<br>0<br>X Area =<br>1,837 4<br>X Area =<br>1,837 3<br>X Area =<br>1,837 3<br>X Area =<br>1,00<br>X Area =<br>1,00<br>Area =<br>1,00<br>Are | 45<br>45<br>45<br>45<br>45<br>45<br>45<br>45<br>45<br>45  |       | Project<br>Murra<br>Exem<br>Exe  | t Information<br>Ay<br>hpt Swinging Door<br>mpt Glazed Fenes<br>cal Fenestration (<br>Cc   |

|                  | Table 406.2  |            | Ð              |
|------------------|--|------------|----------------|
|                  | Energy Credits (2015 Cod   | e)         |                |
| rion             | DESCRIPTION  | CREDIT(S)  | Estimated Cost |
| le.              | ARTEAKAGEICONTROF AND EFFICIENT VENTILATION 2c:<br>Compliatice basedion SectionsR402.47.112c Réduce theitested âir lleakagenoch 5 airons:<br>changes perdour inaximum 28<br>Findor R-38  | <b>D.5</b> | 1              |
| i<br>a<br>N      | Slab on grade R-10 perimeter and under entire slab<br>All whole house ventilation requirements as determined by Section M1507.3 of the<br>Pelow grade stab. B-10 perimeter and under entire slab<br>International Residential Code shall be met with a heat recovery ventilation system<br>with minimum sensible heat recovery efficiency of 0.85.   |            |                |
| b                | Tograling tobrain this creating the building permit drawings shall specify the option  | 1.0        |                |
| a <sup>5</sup> . | Niow the near-recovery ventuation system. Reversal with the following incontentions:         NIGH EFFICIENCY HVAC EQUIPMENT 3a:         Gas!       propane or oiled-fired furnace with minimum AFUE of 94%, or         Gas?       propane or oiled-fired boiler with minimum AFUE of 92%         Pasemari, wall R-21 int pluce to boild the building permit drawings shall specify the option         Slag selected and shall specify the heating equipment type and the minimum Belever and under entire slab         equipment efficiency.   | 1.0        | e. 4           |
| b <sup>b</sup>   | fileH EFFICIENCY HVAC EQUIPMENT 3b:         Air-splinger beaupdmp With minimini/11111159Fedf.9:0he Total UA by 15%.  | 1.0        |                |
| lc               | To blaify to claim this credit, the Building permit drawings shall specify the option Being selected and shall specify the ball of the building equipment type and the initial fications: Equipment the transmission $U = 0.22$  | 2.0        |                |
| c <sup>b</sup>   | HIGHEFFICIENCY HVACEOUIPMENT <sup>4</sup> 3. <sup>advanced</sup><br>Closed Tame grall P-20 are the trunch with a minimum COP of 3.3<br>Floor R-38<br>Basement wall R-21 int plus R-12 ci<br>Open loop water source heat pump with a maximum pumping hydraulic head of 150<br>feel and minimum COP of the ter and under entire slab<br>To qualify to claim this credit, the building permit drawings shall specify the option<br>being selected and shall specify the heating equipment type and the minimum<br>Compliance on Section 4402.1.4: Reduce the I otal UA by 30%.  | 1.5        | ×              |
| d <sup>b</sup>   | HIGH EFFICIENCY HVAC EQUIPMENT 3d:<br>Prescriptive compliance is based on 2 anie 2402.1.1 with the following modifications:<br>Ductless Split System Heat Pumps, Zonal Control: In homes where the primary space<br>Vertical telestration U =0.24 provide provide a ductors bot numer system shall be installed  | Ŷ.Ō        |                |
| la.              | <ul> <li>Fequipment efficiency.</li> <li>HIGH EFFICIENCY HVAC EQUIPMENT 3d:<br/>Prescriptive computance is based on a pile 2402 1.1 with the following modifications:<br/>Ductless Split System Heat Pumps, Zonal Control: In homes where the primary space<br/>Vertical felestration 1 = 0.74<br/>- heating system is a electric heating a ductless-heat-pump system shall be installed -<br/>Alk 1 = 34 A GET (100 TR 01 A MI) FFIT 1 = N 1 VEN THATION 2a:<br/>and provide heating to the largest zone of the housing unit.<br/>Compliance based on R402 4.1.2: Reduce the tested art leakage to 3.0 air changes per<br/>To qualify to claim this credit, the building permit drawings shall specify the option<br/>hour maximum<br/>being selected and shall specify the heating equipment type and the minimum<br/>and<br/>equipment efficiency.</li> </ul>   | 0.5        |                |
| 4                | <ul> <li>equipment efficiency.</li> <li>HIGH EFFICIENCY HVAC DISTRIBUTION SYSTEMY Section M1307.5 of the<br/>International Residential Code shall be met with a high efficiency fan. (maximum 0.35).</li> <li>All heating and cooling system components installed mside the conditioned space.</li> <li>Watts/ctm, not interlocked with the antipace tan Ventilation systems using a turnace<br/>time of the state of the conditioned space.</li> <li>This includes all equipment and distribution system components such as forced air<br/>including an ECM indication for the antipace tan Ventilation systems of the state of the conditioned space.</li> <li>This includes all equipment and distribution system components such as forced air<br/>including an ECM indication for the antipace tan Ventilation system controlled to operate at<br/>ducts, hydronic piping, hydronic floor heating loop, convectors and radiators. All<br/>low Spead in Ventration fully note:</li> <li>combustion equipment shall be direct vent or sealed combustion.</li> <li>To cualify to claim this credit, the building permit drawings shall specify the option.</li> <li>For forced air ducts. A maximum of 10 linear feet of return ducts and 5 linear feet of<br/>being selected and shall specify the maximum tested building air leakage and shall<br/>supply ducts may be located outside the conditioned space. All metallic ducts located<br/>britter the quality me ventilation system.</li> <li>-outside the conditioned space must have both transverse and longitudinal joints sealed -<br/>All Leak Act CONTROL AND FEFT TENT VENTRATION for 20;<br/>implication of space used they cannot contain splices. Flex duct connections<br/>compliance, based on Section R407.4 - 7; Reduce the fested air leakage to 26 air<br/>must be made with nylon straps and installed using a plastic strapping tensioning tool.</li> </ul> | 1.0        |                |
| 2b               | <ul> <li>- Outside the conditioned space must have both transverse and longitudinal-joints-sealed</li></ul>  | 1.0        |                |

| ° 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4  |  | RCHITECTURE<br>PHONE: 253–359–4039<br>RICHARDORFARCHITECTURE.COM   |
|--|--|--|
| Table 406.2<br>Energy Credite (2015 Code)  | Table 406.2<br>Energy Credite (2015 Code)  | 6080<br>REGISTERED<br>ARCHITECT  |
| Definition       DESCRIPTION       CREDIT(S)       Estimated Cost         5a       EFFICIENT WATER HEATING 5a:<br>All showerhead and kitchen sink faucets installed in the house shall be rated at 1.75<br>GPM or less. All other lavatory faucets shall be rated at 1.0 GPM or less. <sup>6</sup><br>To qualify to claim this credit, the building permit drawings shall specify the option<br>being selected and shall specify the maximum flow rates for all showerheads, kitchen<br>sink faucets, and other lavatory faucets.       1.0         5b       EFFICIENT WATER HEATING 5b:<br>Water heating system shall include one of the following:<br>Gas, propane or oil water heater with a minimum EF of 0.74       1.0         or       For R-2 occupancy, a central heat pump meeting the requirements of Option<br>3c.       1.0         or       For R-2 occupancy, a central heat pump water heater with an EF greater than 2.0 that<br>would supply DHW to all the units through a central water loop insulated with R-8<br>minimum pipe insulation.       1.5         5c       EFFICIENT WATER HEATING 5c:<br>Water heating system shall include one of the following:<br>Gas, propane or oil water heater equipment type and the minimum<br>equipment efficiency.       1.5         5c       EFFICIENT water Heat pump water heater with an EF greater than 2.0 that<br>would supply DHW to all the units through a central water loop insulated with R-8<br>minimum pipe insulation.       1.5         5c       EFFICIENT WATER HEATING 5c:<br>Water heating system shall include one of the following:<br>Gas, propane or oil water heater with a minimum EF of 0.91<br>or<br>Solar water heating supplementing a minimum standard water heater. Solar water<br>heating will provide a rated minimum synings of | OPTION         DESCRIPTION         CREDIT(S)         Estimated Cost           6         RENEWABLE ELECTRIC ENERGY:         0.5         0.5         0.5           For each 1200 kWh of electrical generation per each housing unit provided annually by on-site wind or solar equipment a 0.5 credit shall be allowed, up to 3 credits.         0.5         0.5           Generation shall be calculated as follows:         For solar electric systems, the design shall be demonstrated to meet this requirement using the National Renewable Energy Laboratory calculator PVWATIS.         0.5         0.5           For wind generation shall be included on the plans.         For wind generation noring solar access shall be included on the plans.         For wind generation noring solar access shall be origined shall be elify the option being selected and shall show the photovoltaic or wind turbine equipment type, provide documentation of solar and wind access, and include a calculation of the indication is social calination of solar and wind access, and include a calculation of the inninnum annual energy power production.   | ARCHITECT<br>RICHARD W. FLAKE<br>STATE OF WASHINGTON<br>ALL DRAWINGS, SPECIFICATIONS, PLANS, IDEAS,<br>ARRANGEMENTS, AND DESIGNS REPRESENTED<br>OR REFERRED TO ARE THE PROPERTY OF AND<br>OWNED BY RICHARD FLAKE ARCHITECT IN<br>WHETHER THE PROJECT FOR WHICH THEY ARE<br>MADE IS EXECUTED OR NOT. THEY WERE<br>CREATED, EVOLVED, DEVELOPED AND PRODUCED<br>FOR SOLE USE ON AND IN CONNECTION WITH<br>THIS PROJECT AND NONE OF THE ABOVE MAY<br>BE DISCLOSED OR GIVEN TO OR USED BY ANY<br>PERSON, FIRM, OR CORPORATION FOR ANY USE<br>OR PURPOSE WHATSOEVER INCLUDING ANY<br>OTHER PROJECT, EXCEPT UPON WRITTEN<br>PERMISSION OF RICHARD FLAKE ARCHITECT.<br>COPYRIGHT 2019<br>RICHARD FLAKE ARCHITECT |
| Certified Solar Water Heating Systems       Ot         Blectric heat pump water heater with a minimum EF of 2.0 and meeting the standards of NEEA's Northern Climate Specifications for Heat Pump Water Heaters       To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall specify the water heater equipment type and the minimum equipment efficiency and, for solar water heating systems, the calculation of the minimum energy savings.         5d       EFFICIENT WATER HEATING 5d:         A drain water heat recovery unit(s) shall be installed, which captures waste water heat from all the showers, and has a minimum efficiency of 40% if installed for equal flow or a minimum efficiency of 52% if installed for unequal flow. Such units shall be rated in accordance CSA B55.1 and be sol labeled.       0.5         To qualify to claim this credit, the building permit drawings shall include a plumbing diagram that specified the drain water heat recovery units and the plumbing layout needed to install it and labels or other documentation shall be provided that demonstrates that the unit complies with the standard.  |  |  |
| 36       0.30         37       0.30         38       11         38       11         11          | Table 8402.1.1 Footnotes         For SI: 1 foot, = 304.8 mm, cl. = continuous insulation, int, = intermediate framing.         * R-values are minimums. U factors and SHGC are maximums. When insulation is installed in a cavity which is less than the label of acting thickness of the insulation, the compresed R-value of the insulation from Appendix Table A101, 4 shall not be less than the R-value specified in the table. <sup>0</sup> The fenestration U-factor column excludes skylights. The SHGC column applies to all glazed fenestration.         ^1/0/15/21.1-TB" means R-30 continuous insulation on the exterior of the wall, or R-15 on the continuous insulation on the interior of the wall, or R-21 cavity insulation plus a thermal break between the slab and the basement wall at the interior of the basement wall, "10/15/21.1-TB" shall be permitted to be met with R-13 cavity insulation at the interior of the basement wall, "10/15/21.1-TB" shall be permitted to be met with R-13 cavity insulation in the interior of the basement wall, "10/15/21.1-TB" shall be permitted to be met with R-13 cavity insulation at the interior of the basement wall, "10/15/21.1-TB" shall be permitted to be met with R-13 cavity insulation is the interior of the basement wall." "10/15/21.1-TB" shall be permitted to be met with R-13 cavity insulation is not fit to basement wall. "10/15/21.1-TB" means thermal break between floor slab and basement wall.         * R 10 continuous insulation is required under heated slab on grade floors. See R402.2.9.1.         * The second R-value applies when more than half the insulation is on the interior of the mass wall.         * Reserved.         * Reserved.         * Tor single rafter- or joist-waulted ceillings, the insulation may be reduced to R-38.< | MURRAYESTAND, wa 980   |
|  |  | D E S IG N :<br>RWF<br>D R A W N :<br>RWF<br>C H E C K E D :<br>RWF<br>R E V IS IO N S :<br>   |

| Table 406.2         Energy Credits (2015 Coc         Description         EFFICIENT WATER HEATING 5a:  | CREDIT(S) Estimated Cost   | Table 406.2         Energy Credits (2015 Code)         OPTION       CREDIT(S)       Estimated Cost         6       RENEWABLE ELECTRIC ENERGY:       0.5       0.5  | 6080 RE   |
|---|--|--|---|
| <ul> <li>All showerhead and kitchen sink faucets installed in the house shall be rated at 1.75 GPM or less. All other lavatory faucets shall be rated at 1.0 GPM or less.<sup>c</sup></li> <li>To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall specify the maximum flow rates for all showerheads, kitchen sink faucets, and other lavatory faucets.</li> <li>EFFICIENT WATER HEATING 5b:</li> <li>Water heating system shall include one of the following:</li> <li>Gas, propane or oil water heater with a minimum EF of 0.74</li> <li>or</li> <li>Water heater heated by ground source heat pump meeting the requirements of Option 3c.</li> <li>or</li> </ul>                           | 1.0<br>x , , , , , , , , , , , , , , , , , , ,   | For each 1200 kWh of electrical generation per each housing unit provided annually<br>by on-site wind or solar equipment a 0.5 credit shall be allowed, up to 3 credits.<br>Generation shall be calculated as follows:<br>For solar electric systems, the design shall be demonstrated to meet this requirement<br>using the National Renewable Energy Laboratory calculator PVWATTs.<br>Documentation noting solar access shall be included on the plans.<br>For wind generation projects designs shall document annual power generation based<br>on the following factors:<br>The wind turbine power curve; average annual wind speed at the site; frequency<br>distribution of the wind speed at the site and height of the tower.<br>To qualify to claim this credit, the building permit drawings shall specify the option<br>being selected and shall show the photovoltaic or wind turbine equipment type,<br>provide documentation of solar and wind access, and include a calculation of the  | ALL DRAWINGS, SPECIFICAT<br>ARRANGEMENTS, AND DESI<br>OR REFERRED TO ARE THE<br>OWNED BY RICHARD FLAKE<br>WHETHER THE PROJECT FC<br>MADE IS EXECUTED OR NO<br>CREATED, EVOLVED, DEVEL<br>FOR SOLE USE ON AND IN<br>THIS PROJECT AND NONE<br>BE DISCLOSED OR GIVEN T |
| <ul> <li>For R-2 occupancy, a central heat pump water heater with an EF greater than 2.0 that would supply DHW to all the units through a central water loop insulated with R-8 minimum pipe insulation.</li> <li>To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall specify the water heater equipment type and the minimum equipment efficiency.</li> <li>EFFICIENT WATER HEATING 5c:</li> <li>Water heating system shall include one of the following: Gas, propane or oil water heater with a minimum EF of 0.91</li> <li>or</li> </ul>  | т.<br>п.<br>1.5  | minimum annual energy power production.  | PERSON, FIRM, OR CORPO<br>OR PURPOSE WHATSOEVER<br>OTHER PROJECT, EXCEPT I<br>PERMISSION OF RICHARD F<br>COPYRIGHT 2019<br>RICHARD FLAKE ARCHITEC   |
| <ul> <li>Solar water heating supplementing a minimum standard water heater. Solar water heating will provide a rated minimum savings of 85 therms or 2000 kWh based on the Solar Rating and Certification Corporation (SRCC) Annual Performance of OG-300 Certified Solar Water Heating Systems</li> <li>or</li> <li>Electric heat pump water heater with a minimum EF of 2.0 and meeting the standards of NEEA's Northern Climate Specifications for Heat Pump Water Heaters</li> <li>To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall specify the water heater equipment type and the minimum equipment efficiency and, for solar water heating systems, the calculation of the</li> </ul> |  | The second  |   |
| <ul> <li>EFFICIENT WATER HEATING 5d:</li> <li>A drain water heat recovery unit(s) shall be installed, which captures waste water heat from all the showers, and has a minimum efficiency of 40% if installed for equal flow or a minimum efficiency of 52% if installed for unequal flow. Such units shall be rated in accordance CSA B55.1 and be so labeled.</li> <li>To qualify to claim this credit, the building permit drawings shall include a plumbing diagram that specified the drain water heat recovery units and the plumbing layout needed to install it and labels or other documentation shall be provided that demonstrates that the unit complies with the standard.</li> </ul>   | 0.5  |  |   |
| Tuemonstrates that the unit comprises with the standard,  | ×  |  |   |
|   |  |  |   |
| ×<br>   | 2  |  |   |
| 36       0.30         37       0.30         38       1         1       1  | 2 4<br>5 6<br>0.0 0.00<br>0.0 0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0. | Table R402.1.1 Footnotes         For SI: 1 foot .= 304.8 mm, ci .= continuous insulation, int .= intermediate framing. <sup>a</sup> R-values are minimums. U-factors and SHGC are maximums. When insulation is installed in a cavity which is less than the label or design thickness of the insulation, the compressed R-value of the insulation from Appendix Table A101.4 shall not be less than the R-value specified in the table. <sup>b</sup> The fenestration U-factor column excludes skylights. The SHGC column applies to all glazed fenestration.         c" 10/15/21.+TB" means R-10 continuous insulation on the exterior of the wall, or R-15 on the continuous insulation on the interior of the wall, or R-21 cavity insulation plus a thermal break between the slab and the basement wall at the interior of the basement wall. "10/15/21.+TB" shall be permitted to be met with R-13 cavity insulation on the interior or exterior   |   |
| 37       0.30         38       1         1       11         1       11         1       1  | 5       6 $60.5$ $18.15$ 0.0       0.0       0.00         0.0       0.00       0.00         0.0       0.00       0.00         0.0       0.00       0.00         0.0       0.00       0.00         0.0       0.00       0.00         0.0       0.30       0.00         Height       Area       UA         Peet       Inch       Area       UA         0.0       0.00       0.00       0.00  | <ul> <li>For SI: 1 foot .= 304.8 mm, ci .= continuous insulation, int .= intermediate framing.</li> <li><sup>a</sup> R-values are minimums. U-factors and SHGC are maximums. When insulation is installed in a cavity which is less than the label or design thickness of the insulation, the compressed R-value of the insulation from Appendix Table A101.4 shall not be less than the R-value specified in the table.</li> <li><sup>b</sup> The fenestration U-factor column excludes skylights. The SHGC column applies to all glazed fenestration.</li> <li><sup>c</sup> "10/15/21.+TB" means R-10 continuous insulation on the exterior of the wall, or R-15 on the continuous insulation on the insulation plus a thermal break between the slab and the basement wall at the interior of the basement wall. "10/15/21.+TB" shall be permitted to be met with R-13</li> </ul>   | LE FAM  |
| 37       0.30         38       1         38       1         1       1   | 5       6 $60.5$ $18.15$ 0.0       0.00       0.00         0.0       0.00       0.00         0.0       0.00       0.00         0.0       0.00       0.00         0.0       0.00       0.00         0.0       0.00       0.00         a and UA       1543.9       463.16         UA/Area       0.30       0.30         Height       Area       UA         0.0       0.00       0.00         0.0       0.00       0.00         0.0       0.00       0.00         0.0       0.00       0.00         0.0       0.00       0.00         0.0       0.00       0.00         0.0       0.00       0.00         0.0       0.00       0.00         0.00       0.00       0.00  | For SI: 1 foot .= 304.8 mm, cl .= continuous insulation, int .= intermediate framing. <sup>a</sup> R-values are minimums. U-factors and SHGC are maximums. When insulation is installed in a cavity which is less than the label or design thickness of the insulation, the compressed R-value of the insulation from Appendix Table A101.4 shall not be less than the R-value specified in the table. <sup>b</sup> The fenestration U-factor column excludes skylights. The SHGC column applies to all glazed fenestration. <sup>c</sup> "10/15/21.+TB" means R-10 continuous insulation on the exterior of the wall, or R-15 on the continuous insulation on the interior of the wall, or R-21 cavity insulation plus a thermal break between the slab and the basement wall at the interior of the basement wall. "10/15/21.+TB" shall be permitted to be met with R-13 cavity insulation on the interior of the basement wall. "10/15/21.+TB" shall be permitted to be met with R-13 cavity insulation on the interior of the basement wall. "10/15/21.+TB" shall be permitted to be met with R-13 cavity insulation at the interior of the basement wall. "10/15/21.+TB" shall be permitted to be met with R-13 cavity insulation at the interior of the basement wall. "TB" means thermal break between floor slab and basement wall. <sup>d</sup> R-10 continuous insulation is required under heated slab on grade floors. See R402.2.9.1. <sup>e</sup> There are no SHGC requirements in the Marine Zone. <sup>f</sup> Reserved. <sup>k</sup> Reserved. <sup>k</sup> Reserved. <sup>k</sup> Reserved. <sup>k</sup> Reserved. <sup>k</sup> For single rafter- or joist-vaulted ceilings, the insulation may be reduced to R-38. <sup>k</sup> Reserved. <sup>w</sup> Int. (intermediate framing) denotes standard framing 16 inches on center with headers insulated with a minimum of R-10 insulation. Table R402.1.3 Footnote <sup>a</sup> Nonfenestration U-factors shall be obtained from measurement, calculation or an approved source or as  | M R R R R R R R R R R R R R R R R R R R   |
| 37       0.30         38       1         38       1         1       11         1       1  | 5       6 $60.5$ $18.15$ 0.0       0.00       0.00         0.0       0.00       0.00         0.0       0.00       0.00         0.0       0.00       0.00         0.0       0.00       0.00         0.0       0.00       0.00         a and UA       1543.9       463.16         UA/Area       0.30       0.30         Height       Area       UA         0.0       0.00       0.00         0.0       0.00       0.00         0.0       0.00       0.00         0.0       0.00       0.00         0.0       0.00       0.00         0.0       0.00       0.00         0.0       0.00       0.00         0.0       0.00       0.00         0.00       0.00       0.00  | For SI: 1 foot .= 304.8 mm, ci .= continuous insulation, int .= intermediate framing.<br><sup>8</sup> R-values are minimums. U-factors and SHGC are maximums. When insulation is installed in a cavity which is<br>less than the label or design thickness of the insulation, the compressed R-value of the insulation from<br>Appendix Table A101.4 shall not be less than the R-value specified in the table.<br><sup>b</sup> The fenestration U-factor column excludes skylights. The SHGC column applies to all glazed fenestration.<br><sup>c</sup> "10/15/21.+TB" means R-10 continuous insulation on the exterior of the wall, or R-15 on the continuous<br>insulation on the interior of the wall, or R-21 cavity insulation plus a thermal break between the slab and the<br>basement wall at the interior of the basement wall. "10/15/21.+TB" shall be permitted to be met with R-13<br>cavity insulation on the interior of the basement wall. "10/15/21.+TB" shall be permitted to be met with R-13<br>cavity insulation on the interior of the basement wall. "10/15/21.+TB" shall be permitted to be met with R-13<br>cavity insulation at the interior of the basement wall. "10/15/21.+TB" shall be permitted to be met with R-13<br>cavity insulation at the interior of the basement wall. "TB" means thermal break between floor slab and basement<br>wall.<br><sup>d</sup> R-10 continuous insulation is required under heated slab on grade floors. See R402.2.9.1.<br><sup>e</sup> There are no SHGC requirements in the Marine Zone.<br><sup>f</sup> Reserved.<br><sup>k</sup> Reserved.<br><sup>k</sup> Reserved.<br><sup>k</sup> For single rafter- or joist-vaulted ceilings, the insulation is on the interior of the mass wall.<br><sup>l</sup> Reserved.<br><sup>k</sup> Reserved.<br><sup>k</sup> Reserved.<br><sup>k</sup> Reserved.<br><sup>k</sup> For single rafter- or joist-vaulted ceilings, the insulation may be reduced to R-38.<br><sup>l</sup> Reserved.<br><sup>m</sup> Int. (intermediate framing) denotes standard framing 16 inches on center with headers insulated with a minimum of R-10 insulation.<br><b>Table R402.1.3 Footnote</b> |   |
| 37       0.30         38       1         38       1         1       1   | 5       6 $60.5$ $18.15$ 0.0       0.00       0.00         0.0       0.00       0.00         0.0       0.00       0.00         0.0       0.00       0.00         0.0       0.00       0.00         0.0       0.00       0.00         a and UA       1543.9       463.16         UA/Area       0.30       0.30         Height       Area       UA         0.0       0.00       0.00         0.0       0.00       0.00         0.0       0.00       0.00         0.0       0.00       0.00         0.0       0.00       0.00         0.0       0.00       0.00         0.0       0.00       0.00         0.0       0.00       0.00         0.00       0.00       0.00  | For SI: 1 foot .= 304.8 mm, cl .= continuous insulation, int .= intermediate framing. <sup>a</sup> R-values are minimums. U-factors and SHGC are maximums. When insulation is installed in a cavity which is less than the label or design thickness of the insulation, the compressed R-value of the insulation from Appendix Table A101.4 shall not be less than the R-value specified in the table. <sup>b</sup> The fenestration U-factor column excludes skylights. The SHGC column applies to all glazed fenestration. <sup>c</sup> "10/15/21.+TB" means R-10 continuous insulation on the exterior of the wall, or R-15 on the continuous insulation on the interior of the wall, or R-21 cavity insulation plus a thermal break between the slab and the basement wall at the interior of the basement wall. "10/15/21.+TB" shall be permitted to be met with R-13 cavity insulation on the interior of the basement wall. "10/15/21.+TB" shall be permitted to be met with R-13 cavity insulation on the interior of the basement wall. "10/15/21.+TB" shall be permitted to be met with R-13 cavity insulation at the interior of the basement wall. "10/15/21.+TB" shall be permitted to be met with R-13 cavity insulation at the interior of the basement wall. "TB" means thermal break between floor slab and basement wall. <sup>d</sup> R-10 continuous insulation is required under heated slab on grade floors. See R402.2.9.1. <sup>e</sup> There are no SHGC requirements in the Marine Zone. <sup>f</sup> Reserved. <sup>k</sup> Reserved. <sup>k</sup> Reserved. <sup>k</sup> Reserved. <sup>k</sup> Reserved. <sup>k</sup> For single rafter- or joist-vaulted ceilings, the insulation may be reduced to R-38. <sup>k</sup> Reserved. <sup>w</sup> Int. (intermediate framing) denotes standard framing 16 inches on center with headers insulated with a minimum of R-10 insulation. Table R402.1.3 Footnote <sup>a</sup> Nonfenestration U-factors shall be obtained from measurement, calculation or an approved source or as  |   |

|   |  | REE<br>ARCHITECTURE<br>PHONE: 253–359–4039<br>RICHARDØRFARCHITECTURE.COM   |
|---|--|--|
| Table 406.2         Energy Credits (2015 Code)         OPTION       CREDIT(S)       Estimated Cost  | Table 406.2         Energy Credits (2015 Code)         OPTION       CREDIT(S)       Estimated Cost   | 6080<br>REGISTERED<br>ARCHITECT  |
| 5a     EFFICIENT WATER HEATING 5a:     0.5       All showerhead and kitchen sink faucets installed in the house shall be rated at 1.75     0.5       GPM or less. All other lavatory faucets shall be rated at 1.0 GPM or less.*     0.5       To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall specify the maximum flow rates for all showerheads, kitchen sink faucets, and other lavatory faucets.     1.0       5b     EFFICIENT WATER HEATING 5b:     1.0       Water heating system shall include one of the following:     1.0       Gas, propane or oil water heater with a minimum EF of 0.74     0r       Water heater heated by ground source heat pump meeting the requirements of Option 3c,     0r       For R-2 occupancy, a central heat pump water heater with an EF greater than 2.0 that would supply DHW to all the units through a central water loop insulated with R-8 minimum pipe insulation.     1.5       To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall specify the water heater equipment type and the minimum equipment efficiency.     1.5       Se     EFFICIENT WATER HEATING 5c:     1.5       Water heating system shall include one of the following:     1.5       Gas, propane or oil water heater with a minimum EF of 0.91     0r       Se     EFFICIENT WATER HEATING 5c:     1.5       Water heating system shall include one of the following:     1.5       Or     Solar water heater with a minimu | 6       RENEWABLE ELECTRICE ENERGY:       0.5         6       For each 1200 kWh of electrical generation per each housing unit provided annually by on-site wind or solar equipment a 0.5 credit shall be allowed, up to 3 credits. Generation shall be calculated as follows:       0.5         For olar electric systems, the design shall be demonstrated to meet this requirement using the National Renewable Energy Laboratory calculator PVWATTs. Documentation noting solar access shall be included on the plans. For wind generation projects designs shall document annual power generation based on the following factors:       0.5         The wind turbine power curve; average annual wind speed at the site; frequency distribution of the wind speed at the site and height of the tower. To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall show the photovoltic or wind turbine equipment type, provide documentation of solar and wind access, and include a calculation of the minimum annual energy power production.  | ALL DRAWINGS, SPECIFICATIONS, PLANS, IDEAS,<br>ARRANGEMENTS, AND DESIGNS REPRESENTED<br>OR REFERRED TO ARE THE PROPERTY OF AND<br>OWNED BY RICHARD FLAKE ARCHITECT IN<br>WHETHER THE PROJECT FOR WHICH THEY ARE<br>MADE IS EXECUTED OR NOT. THEY WERE<br>CREATED, EVOLVED, DEVELOPED AND PRODUCED<br>FOR SOLE USE ON AND IN CONNECTION WITH<br>THIS PROJECT AND NONE OF THE ABOVE MAY<br>BE DISCLOSED OR GIVEN TO OR USED BY ANY<br>PERSON, FIRM, OR CORPORATION FOR ANY USE<br>OR PURPOSE WHATSOEVER INCLUDING ANY<br>OTHER PROJECT, EXCEPT UPON WRITTEN<br>PERMISSION OF RICHARD FLAKE ARCHITECT.<br>COPYRIGHT 2019<br>RICHARD FLAKE ARCHITECT |
| equipment efficiency and, for solar water heating systems, the calculation of the minimum energy savings.       0.5         5d       EFFICIENT WATER HEATING 5d:       0.5         A drain water heat recovery unit(s) shall be installed, which captures waste water heat from all the showers, and has a minimum efficiency of 40% if installed for equal flow or a minimum efficiency of 52% if installed for unequal flow. Such units shall be rated in accordance CSA B55.1 and be so labeled.       0.5         To qualify to claim this credit, the building permit drawings shall include a plumbing diagram that specified the drain water heat recovery units and the plumbing layout needed to install it and labels or other documentation shall be provided that demonstrates that the unit complies with the standard.       0.5  |  |  |
|   |  | T X X X X X X X X X X X X X X X X X X X  |
| 36       0.30         37       0.30         38       1         1       11         0       0   | Table R402.1.1 FootnotesFor SI: 1 foot .= 304.8 mm, ci .= continuous insulation, int .= intermediate framing.aR-values are minimums. U-factors and SHGC are maximums. When insulation is installed in a cavity which isless than the label or design thickness of the insulation, the compressed R-value of the insulation fromAppendix Table A101.4 shall not be less than the R-value specified in the table.bThe fenestration U-factor column excludes skylights. The SHGC column applies to all glazed fenestration.c"10/15/21.+TB" means R-10 continuous insulation on the exterior of the wall, or R-15 on the continuous insulation on the interior of the wall, or R-21 cavity insulation plus a thermal break between the slab and the basement wall at the interior of the basement wall. "10/15/21.+TB" shall be permitted to be met with R-13 cavity insulation on the interior of the basement wall plus R-5 continuous insulation on the interior or exterior of the wall. "10/13" means R-10 continuous insulation on the interior or exterior of the wall. "10/13" means R-10 continuous insulation on the interior of slab and basement wall. "10/13" means R-10 continuous insulation on the interior or exterior of the wall. "10/13" means R-10 continuous insulation on the interior of slab and basement wall. | RAA<br>SINGLEFAM<br>c E R ISLAN<br>C E R ISLAN   |
| Overhead Glazing (Skylights)       Width       Height         Description       Ref.       U-factor       Qt.       Feet       Feet       Area       UA         Image: Component       Image: Componen       Image: Component  | <ul> <li><sup>d</sup> R-10 continuous insulation is required under heated slab on grade floors. See R402.2.9.1.</li> <li><sup>e</sup> There are no SHGC requirements in the Marine Zone.</li> <li><sup>f</sup> Reserved.</li> <li><sup>g</sup> Reserved.</li> <li><sup>h</sup> Reserved.</li> <li><sup>i</sup> The second R-value applies when more than half the insulation is on the interior of the mass wall.</li> <li><sup>i</sup> Reserved.</li> <li><sup>k</sup> For single rafter- or joist-vaulted ceilings, the insulation may be reduced to R-38.</li> <li><sup>i</sup> Reserved.</li> <li><sup>m</sup> Int. (intermediate framing) denotes standard framing 16 inches on center with headers insulated with a minimum of R-10 insulation.</li> <li>Table R402.1.3 Footnote</li> <li><sup>a</sup> Nonfenestration U-factors shall be obtained from measurement, calculation or an approved source or as specified in Section R402.1.3.</li> </ul>   |  |
|   |  | DESIGN:<br>RWF<br>DRAWNS:<br>RWF<br>CHECKED:<br>RWF<br>REVISIONS:  |
|   |  |  |

<u>DEC. 03, 2020</u>

A - 10.1

Contact Information \_\_\_\_\_ Ref. U-factor pt Swinging Door (24 sq. ft. max.) mpt Glazed Fenestration (15 sq. ft. max.) al Fenestration (Windows and doors) Component Ref. U-factor Description Ot 
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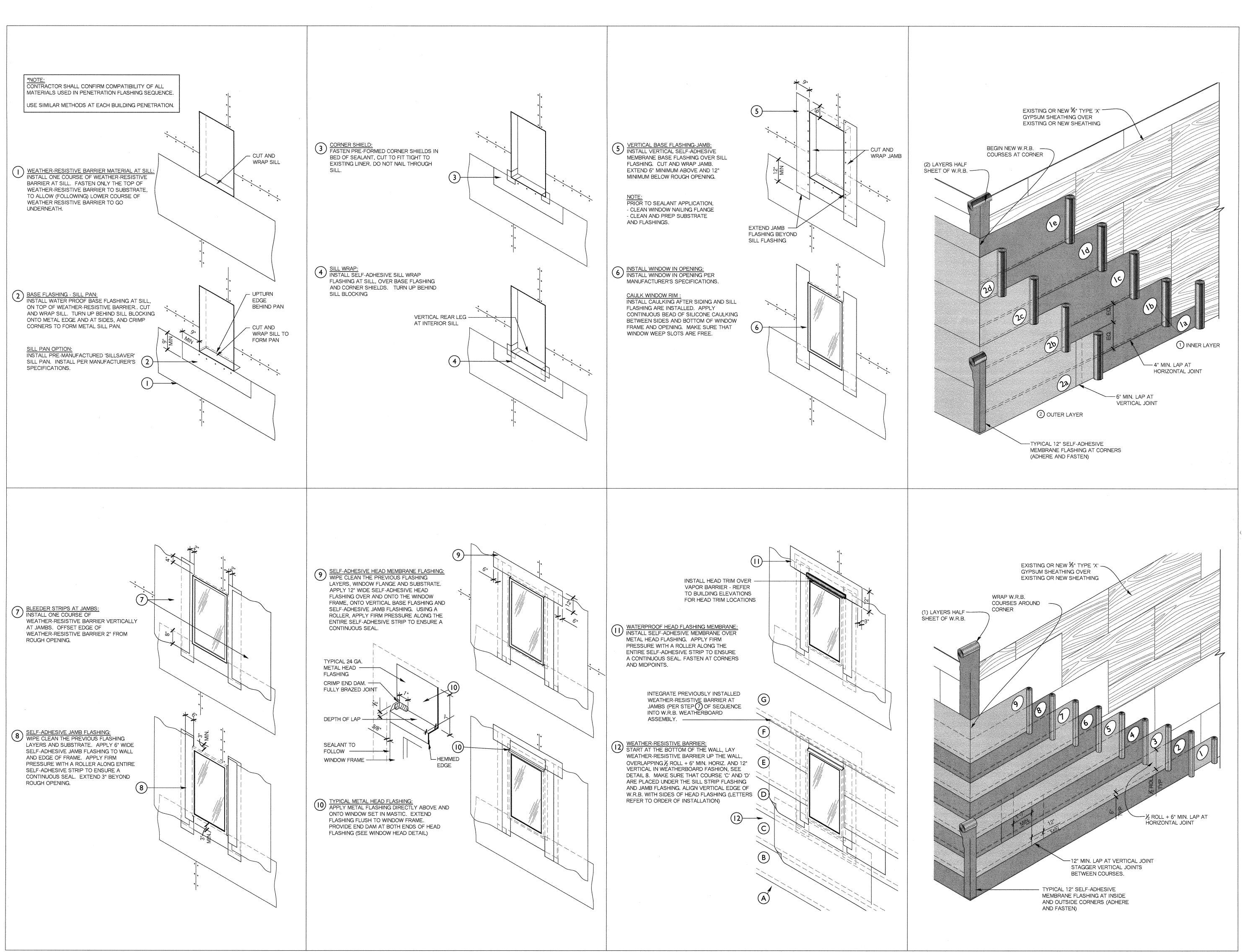
|     | Width   | Height                                       |
|-----|---------|--|
| Qt. | Feet In | Height<br><sup>ch</sup> Feet <sup>Inch</sup> |
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| 1   | 2          | 6 | 3                        | 0      |
| 1   | 5          | 0 | 4                        | 6      |
| 1   | 12         | 0 | 9                        | 0      |
| 1   | 15         | 0 | 9                        | 0      |
| 1   | 3          | 0 | 9                        | 5      |
| 1   | 3          | 0 | 9                        | 0      |
| 1   | 18         | 0 | 5                        | 6      |
| 1   | 8          | 0 | 5                        | 6      |
| 1   | 12         | 0 | 9                        | 0      |
| 1   | 15         | 0 | 9                        | 0      |
| 1   | 3          | 0 | 6                        | 0      |
| 1   | 3          | 0 | 6                        | 0      |
| 1   | 8          | 0 | 9                        | 0      |
| 1   | 6          | 9 | 12                       | 0      |
| 1   | 4          | 3 | 6                        | 0      |
| 1   | 2          | 6 | 2                        | 9      |
| 1   | 5          | 4 | 8                        | 0      |
| 1   | 2          | 6 | 4                        | 6      |
| 1   | 6          | 0 | 4                        | 6      |
| 1   | 6          | 0 | 4                        | 6      |
| 1   | 5          | 0 | 4                        | 6      |
| 1   | 7          | 0 | 9                        | 0      |
| 1   | 2          | 4 | 3                        | 0      |
| 1   | 15         | 0 | 5                        | 6      |
| 1   | 15         | 0 | 2                        | 6      |
| 1   | 3          | 0 | 5                        | 0      |
| 1   | 3          | 0 | 5                        | 0      |
| 1   | 8          | 0 | 5                        | 0      |
| 1   | 2          | 6 |                          | 0      |
| 1   | 5          | 0 | 3<br>5                   | 0      |
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|   | 7.5   | 2.25  |
|   | 7.5   | 2.25  |
|   | 22.5  | 6.75  |
|   | 108.0 | 32.40 |
|   | 135.0 | 40.50 |
|   | 28.3  | 8.48  |
|   | 27.0  | 8.10  |
|   | 99.0  | 29.70 |
|   | 44.0  | 13.20 |
|   | 108.0 | 32.40 |
|   | 135.0 | 40.50 |
|   | 18.0  | 5.40  |
|   | 18.0  | 5.40  |
|   | 72.0  | 21.60 |
|   | 81.0  | 24.30 |
|   | 25.5  | 7.65  |
|   | 6.9   | 2.06  |
|   | 42.7  | 12.80 |
|   | 11.3  | 3.38  |
|   | 27.0  | 8.10  |
|   | 27.0  | 8.10  |
|   | 22.5  | 6.75  |
|   | 63.0  | 18.90 |
|   | 7.0   | 2.10  |
|   | 82.5  | 24.75 |
|   | 37.5  | 11.25 |
|   | 15.0  | 4.50  |
|   | 15.0  | 4.50  |
|   | 40.0  | 12.00 |
|   | 7.5   | 2.25  |
|   | 25.0  | 7.50  |
|   | 66.0  | 19.80 |
|   | 11.0  | 3.30  |
|   | 11.7  | 3.50  |
|   | 24.0  | 7.20  |
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| Image: series of the series  |         |              | FLOOR | FINISH |       | WALL | FINISH | 1    | CEILING FINISH |
|--|---------|--------------|-------|--------|-------|------|--------|------|----------------|
| Image: state stat                | MARK    | ROOM NAME    | FLOOR | BASE   | NORTH | EAST | SOUTH  | WEST | CEILING        |
| Image: series of the series  | BASEME  | ENT PLAN     |       |        |       |      |        |      |                |
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\* VERIFY ALL FINISHES W/ ARCHITECT.

|          | OR SCHEDUL    | .⊑        |      |       |             |              |              |        |         |         |
|----------|---------------|-----------|------|-------|-------------|--------------|--------------|--------|---------|---------|
| MARK     | SIZE H        | THICKNESS | TYPE | STYLE | DOOR FINISH | FRAME FINISH | MANUFACTURER | SERIES | U-VALUE | REMARKS |
| <br>BASE | IENT PLAN     |           |      |       |             |              |              |        |         |         |
|          |               |           |      |       |             |              |              |        |         |         |
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| FIRST    | FLOOR PLAN    |           |      |       |             |              |              |        |         |         |
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| SECO     | ND FLOOR PLAN | · · ·     |      | 1     | 1           |              |              |        |         | [       |
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\* GLAZING TO BE LoE 272 W/ ARGON.
\* ALL SOLID CORE DOORS TO BE PAINT GRADE.
\* EXTERIOR CLAD FINISH TO BE VERIFIED BY ARCHITECT.
\* VERIFY ALL DOOR HARDWARE W/ ARCHITECT.
\* VERIFY ALL DOOR FINISH TO BE W( ARCHITECT.

\* VERIFY ALL DOOR FINISHES W/ ARCHITECT.

| MARK     | SIZE<br>W x H | TYPE | MANUFACTURER | SERIES | U-VALUE | REMARKS |
|----------|---------------|------|--------------|--------|---------|---------|
| BASEMEN  | IT PLAN       |      | -            |        |         | 1       |
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\* INTERIOR WOOD FINISH TO BE PRIMED. \* EXTERIOR CLAD FINISH TO BE VERIFIED BY ARCHITECT.

\* VERIFY ALL WINDOW HARDWARE W/ ARCHITECT.
\* 'T' INDICATES GLAZING TO BE TEMPERED, SEE ELEVATIONS.
\* SIZES INDICATED ARE NOT ROUGH OPENING DIMENSIONS. SEE DETAILS & MANUFACTURER'S SPECIFICATIONS FOR ROUGH OPENING DIMENSIONS.

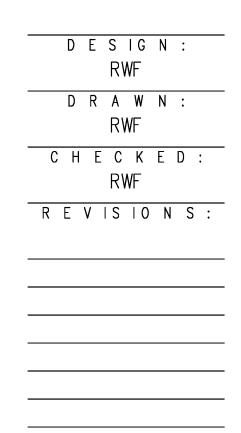
\* GLAZING TO BE LoE 272 W/ ARGON.

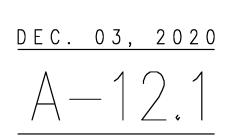


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| ROO     | M FINISH SCHEDULE |          |                |       |      |        |      |                |
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| MARK    | ROOM NAME         | FLOOR    | FINISH<br>BASE | NORTH | EAST | FINISH | WEST | CEILING FINISH |
|         | I<br>NT PLAN      |          |                |       |      |        |      |                |
|         |                   |          |                |       |      |        |      |                |
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| FIRST F | LOOR PLAN         |          |                |       |      |        |      |                |
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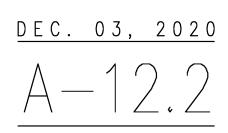
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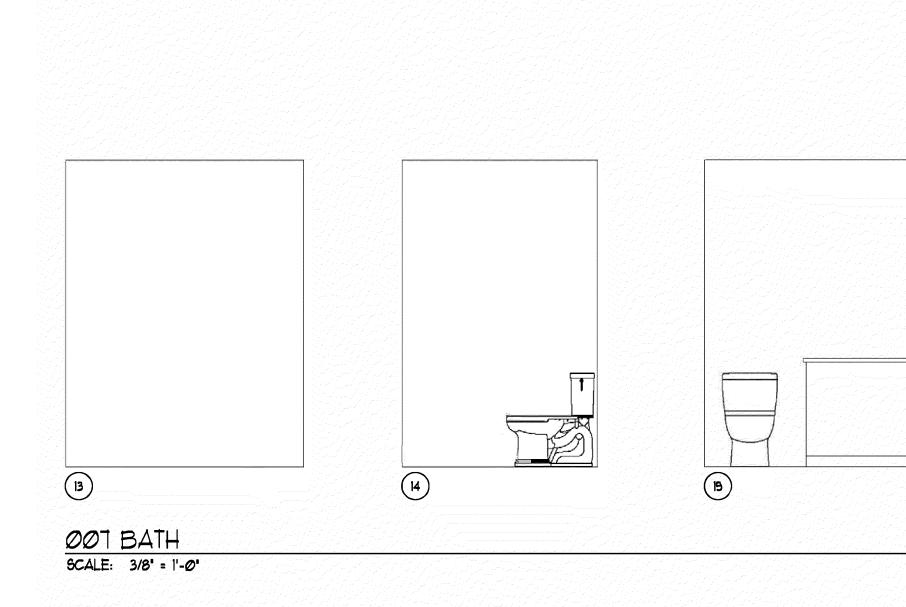
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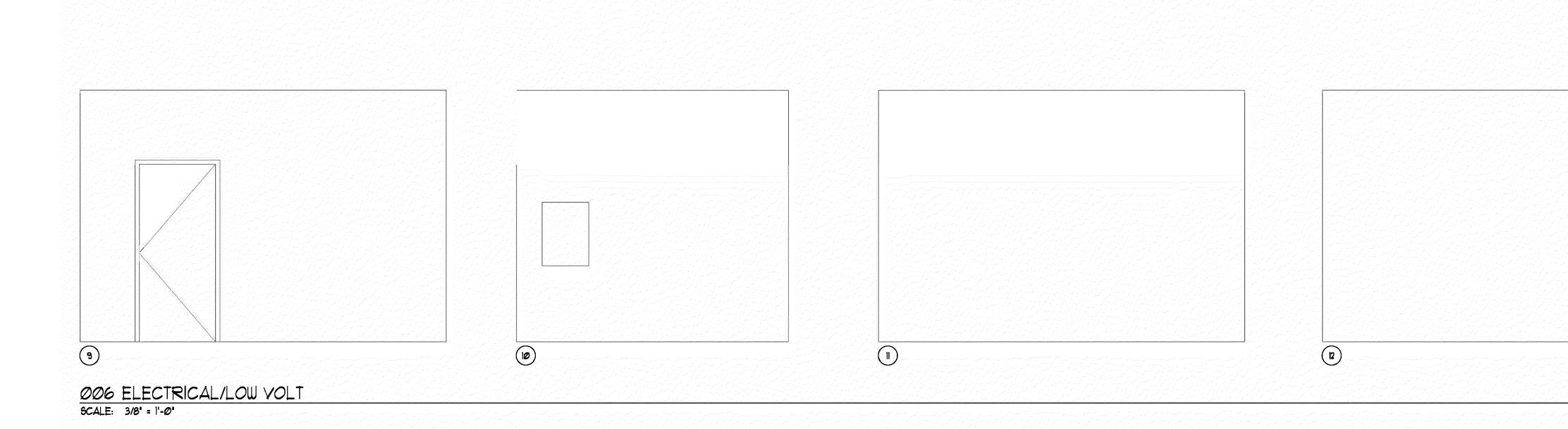
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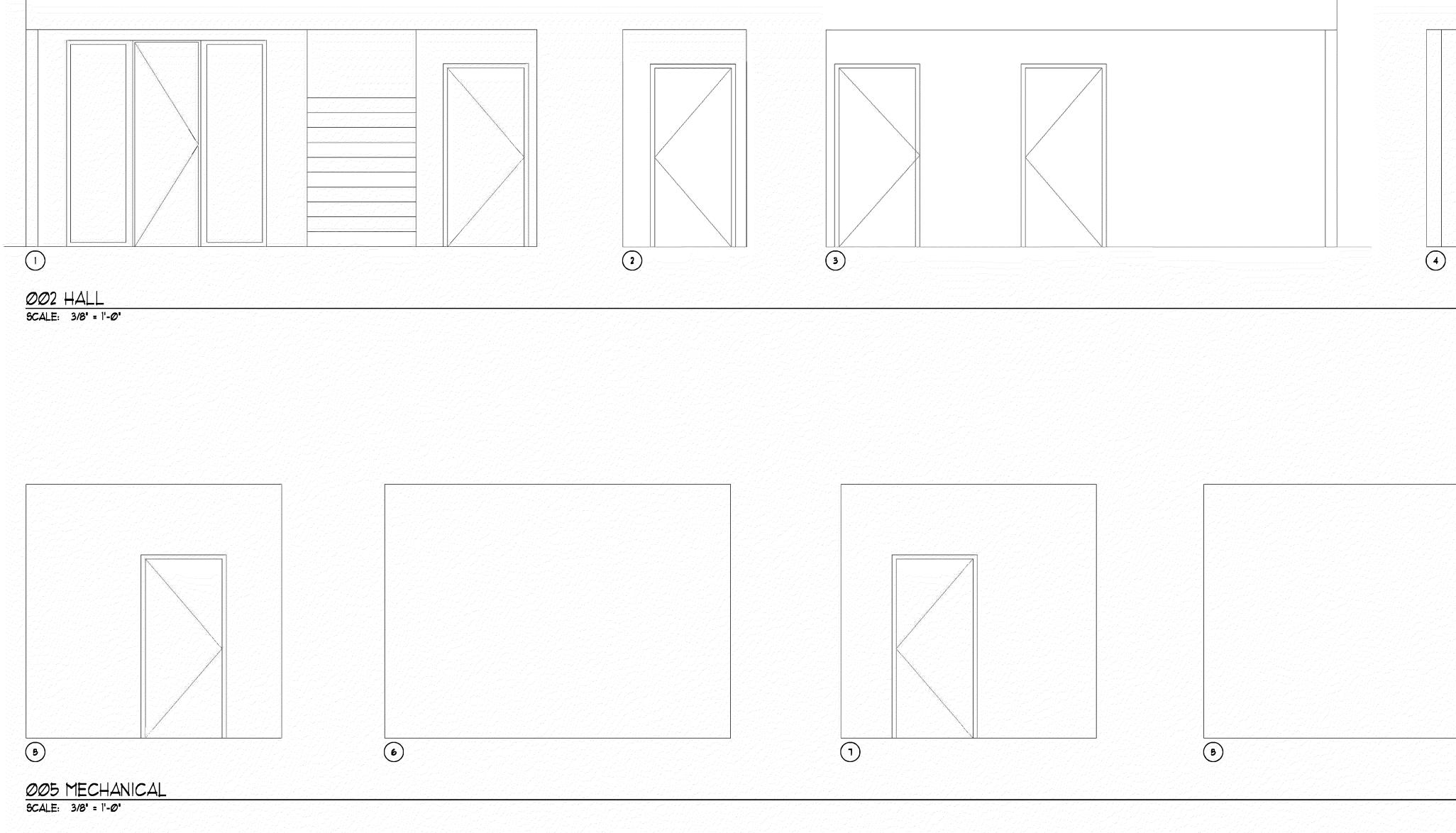
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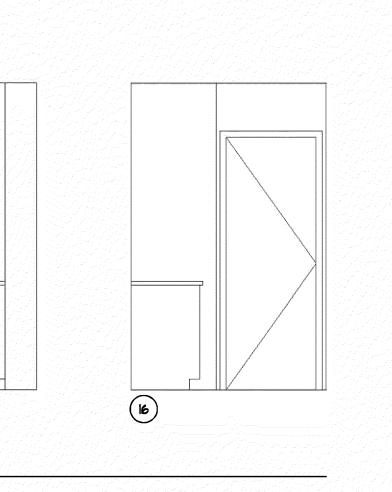
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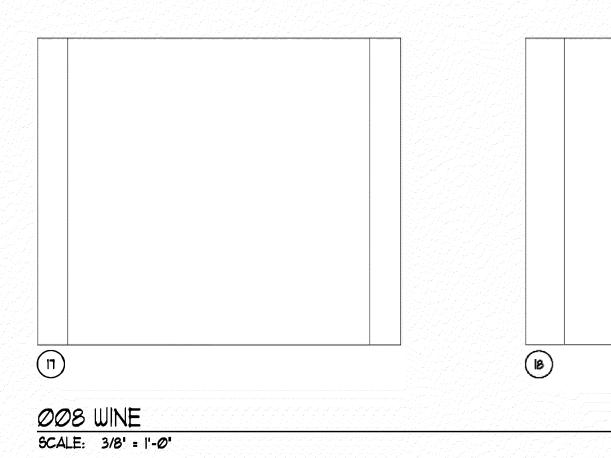








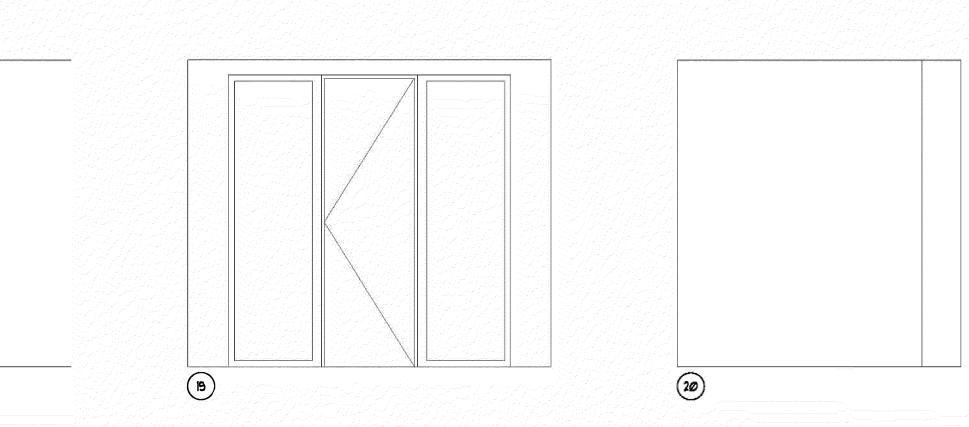




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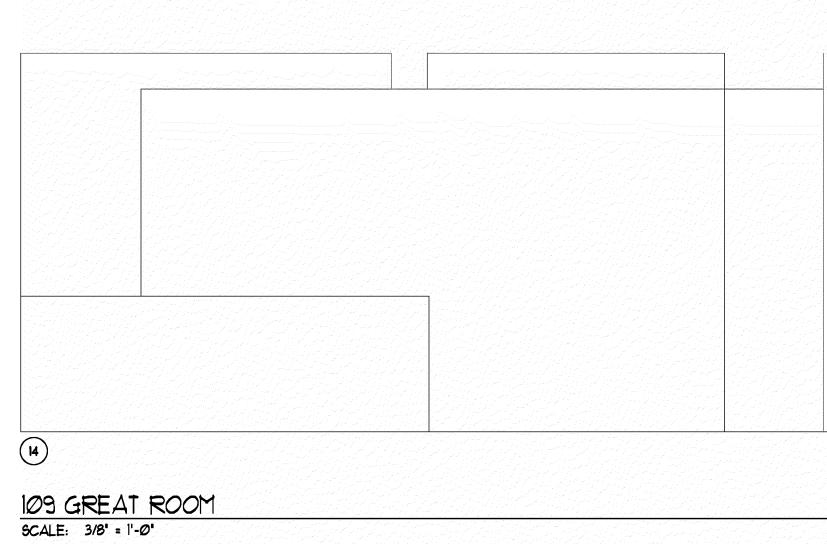
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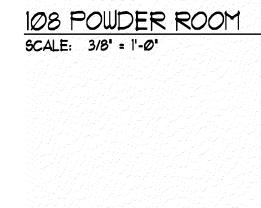
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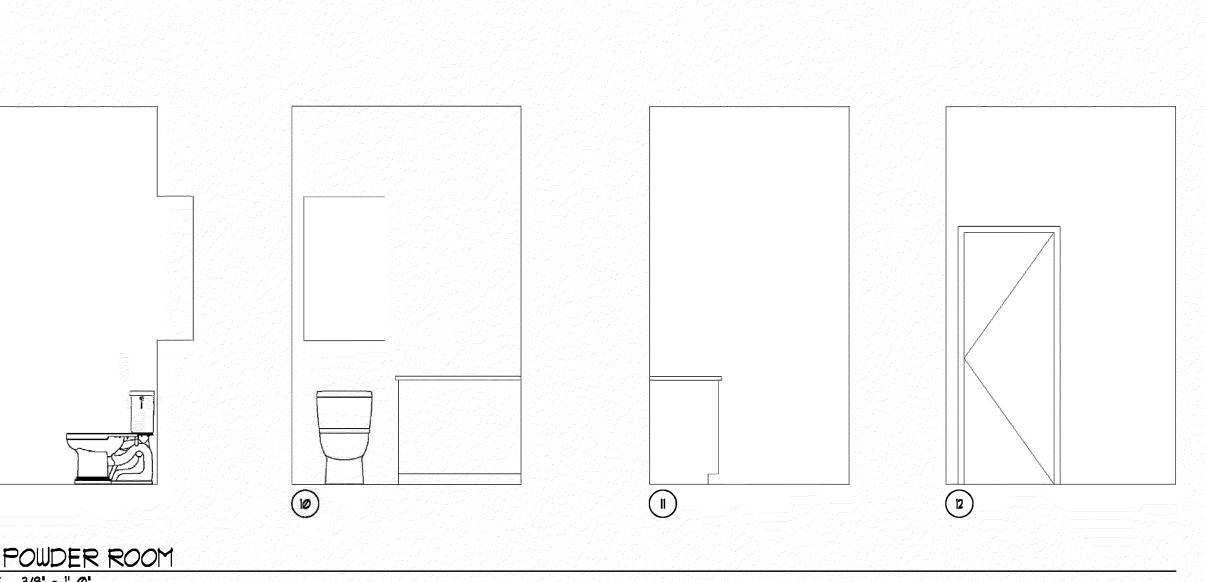
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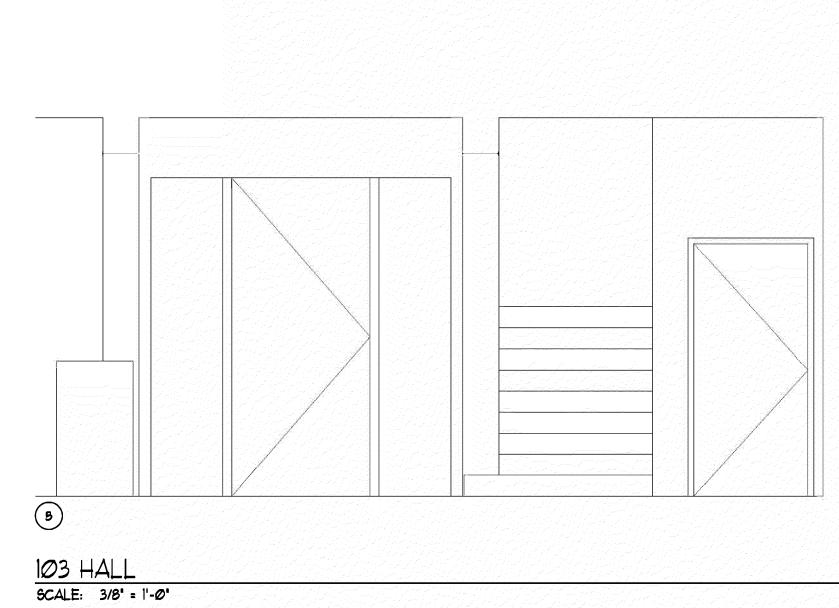
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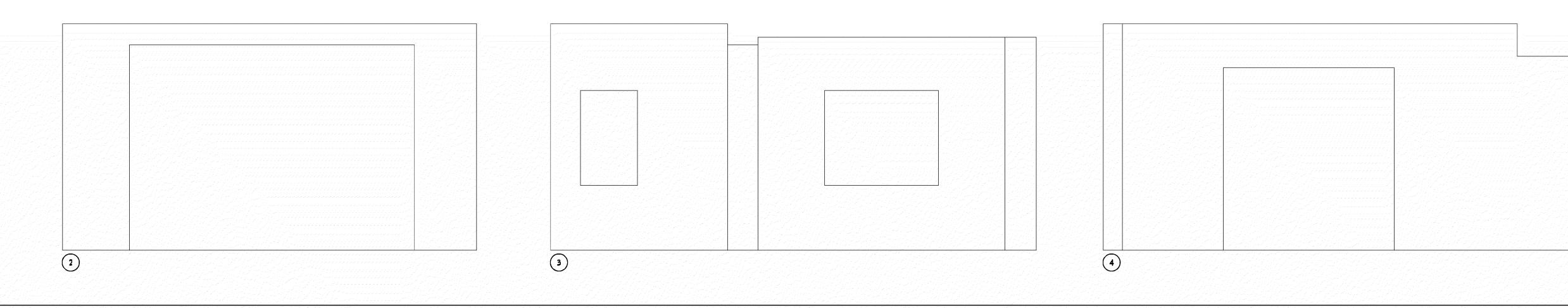


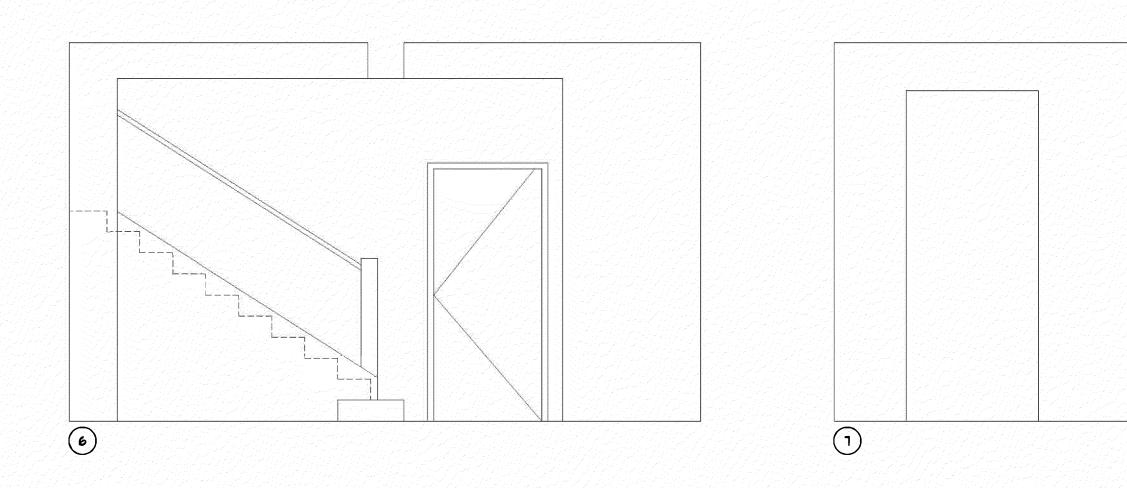


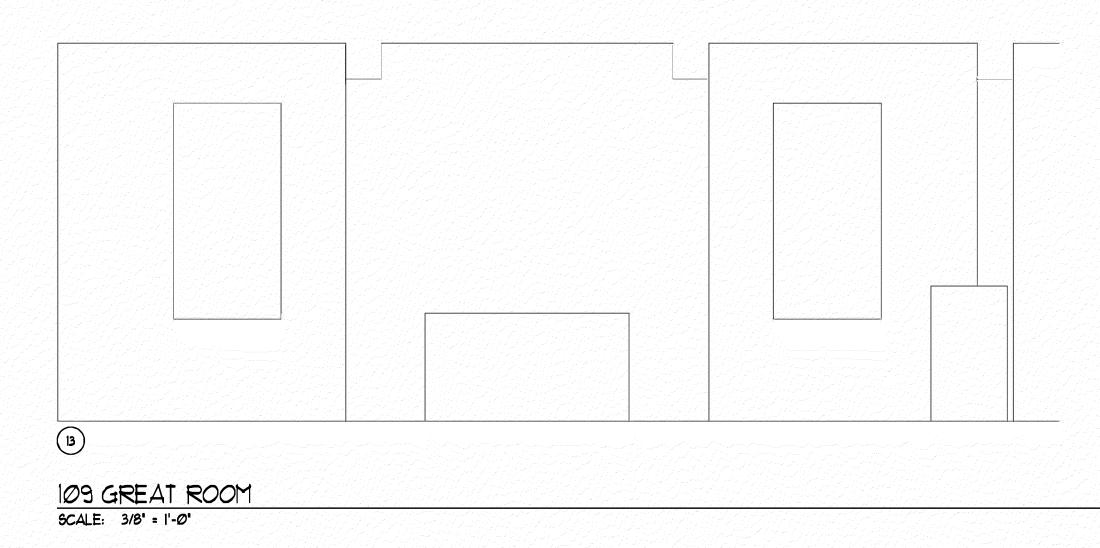


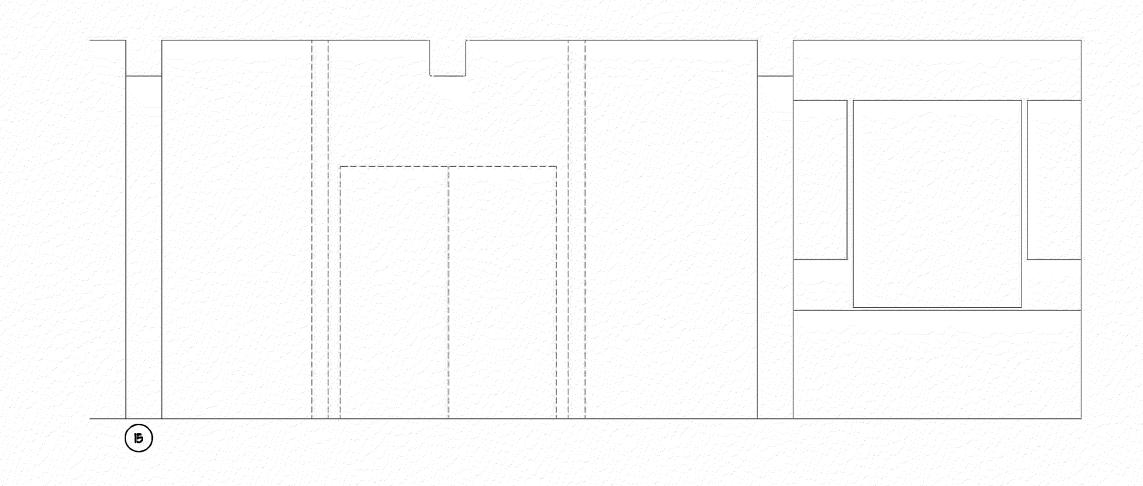
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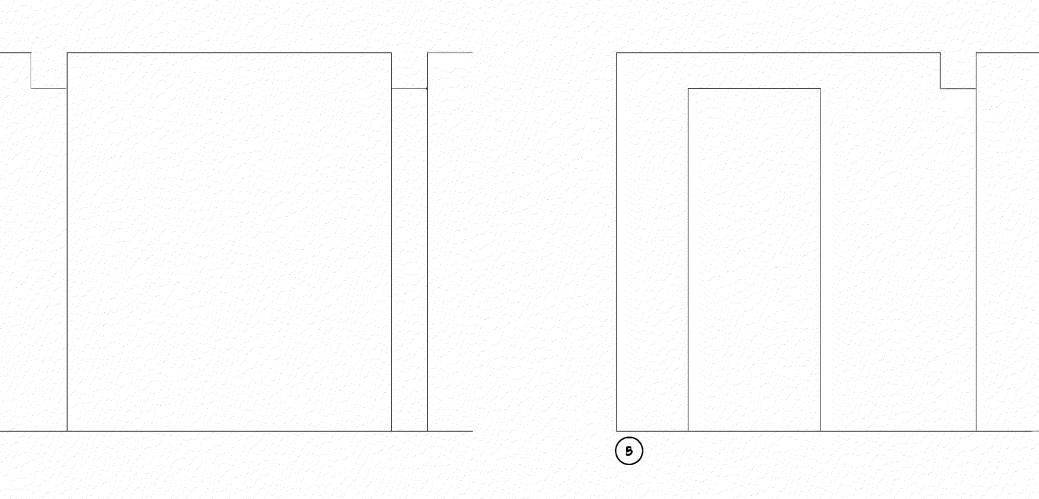
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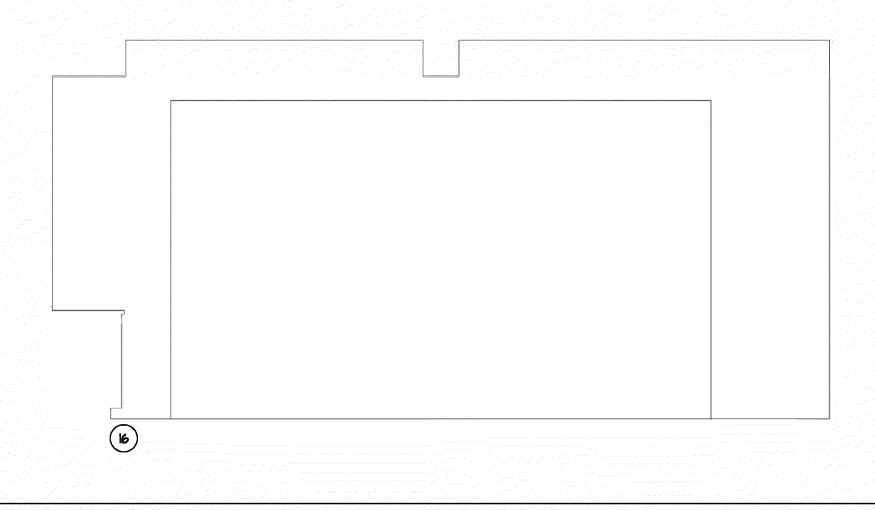












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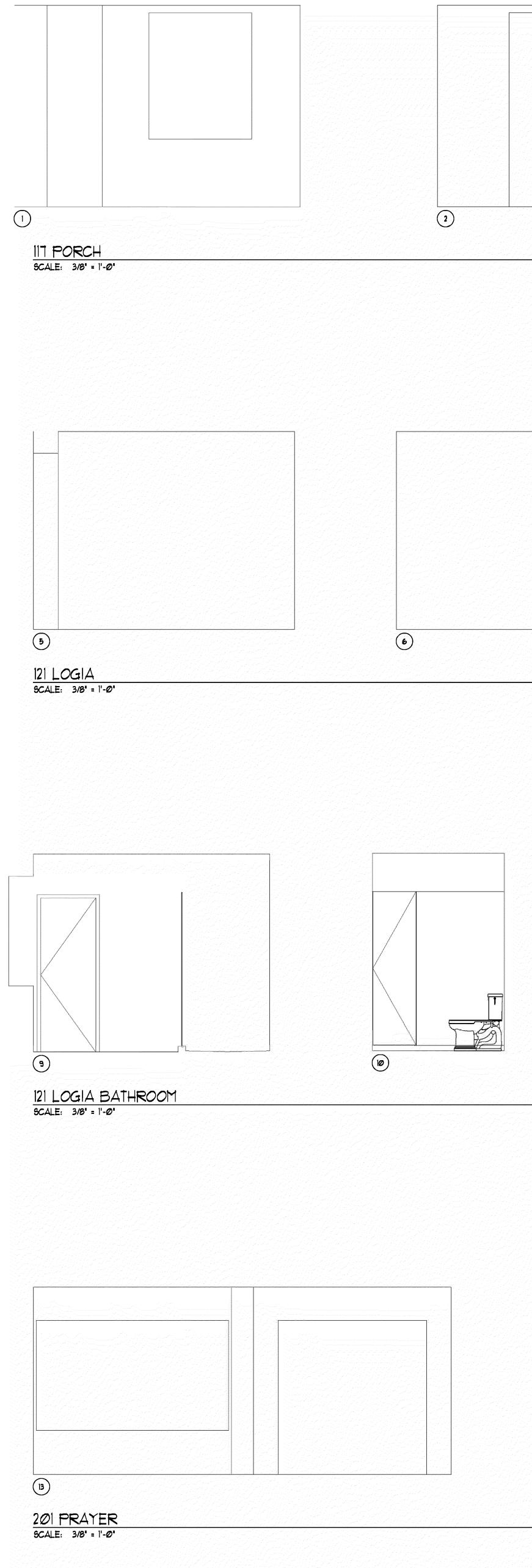
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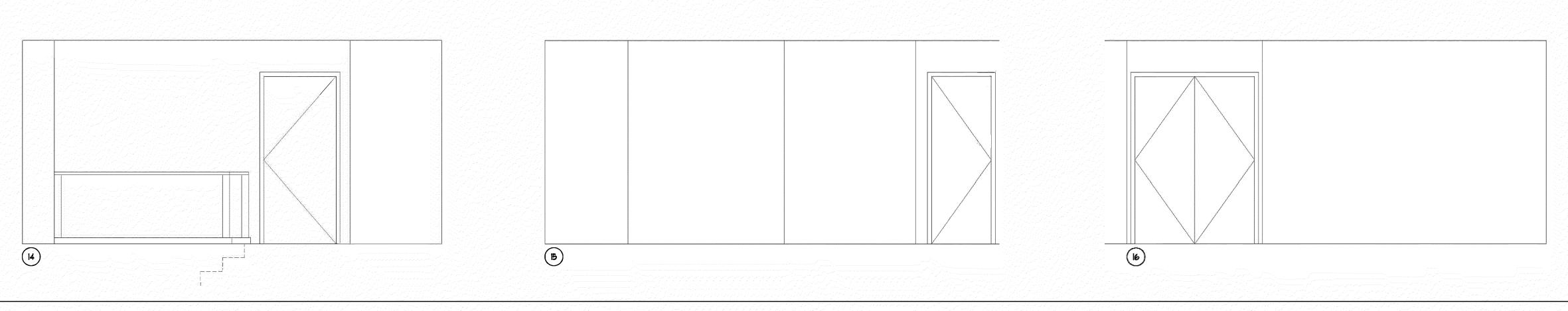
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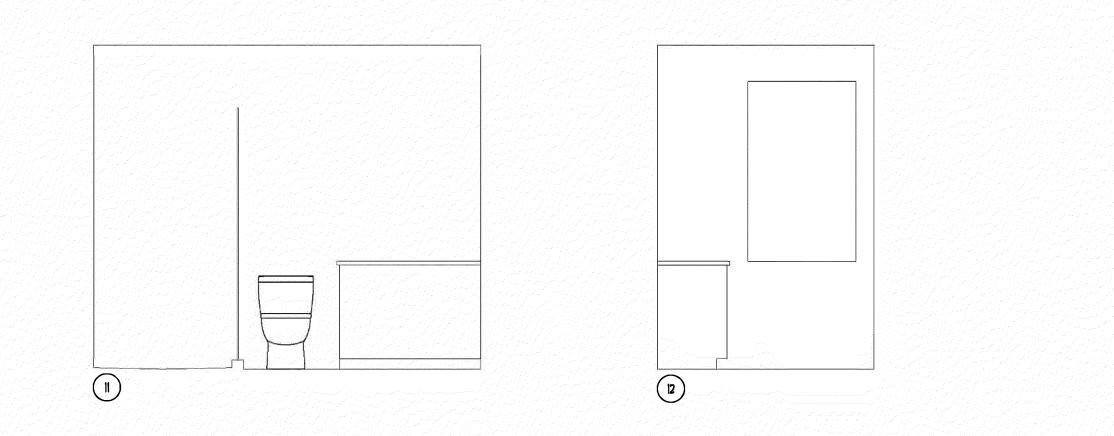
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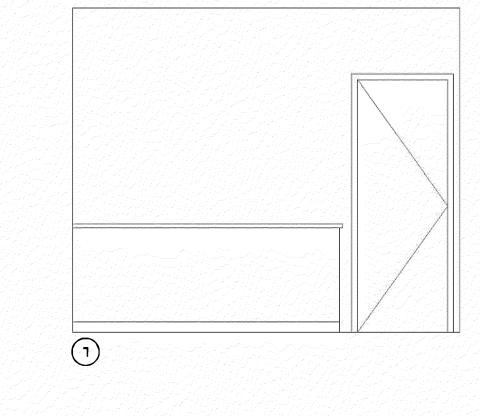
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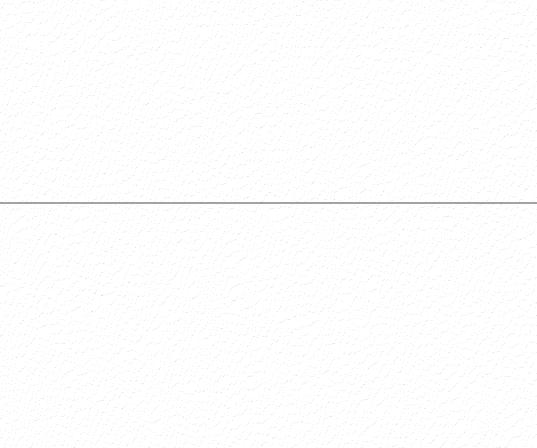
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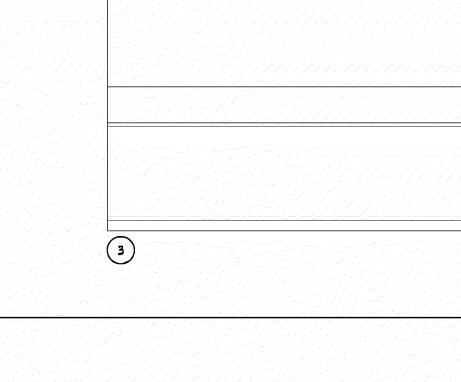








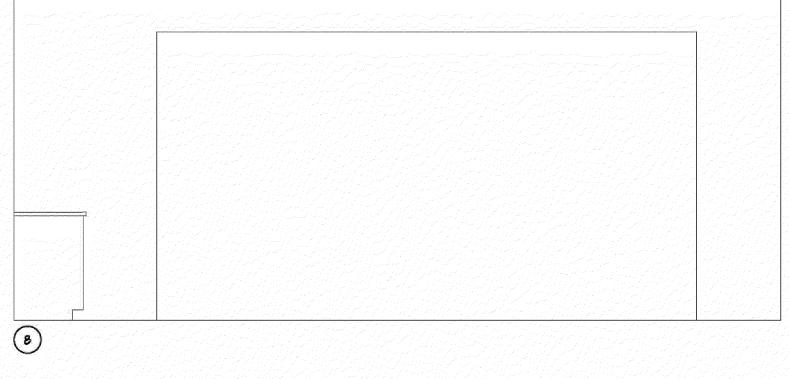




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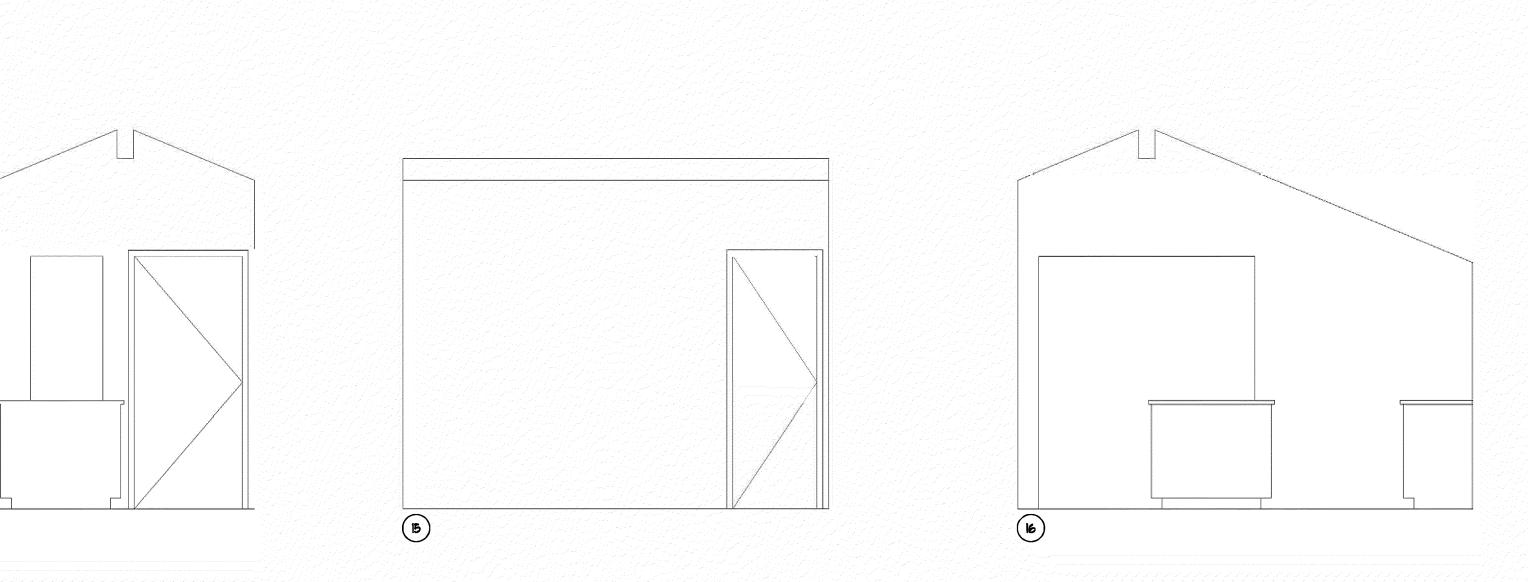
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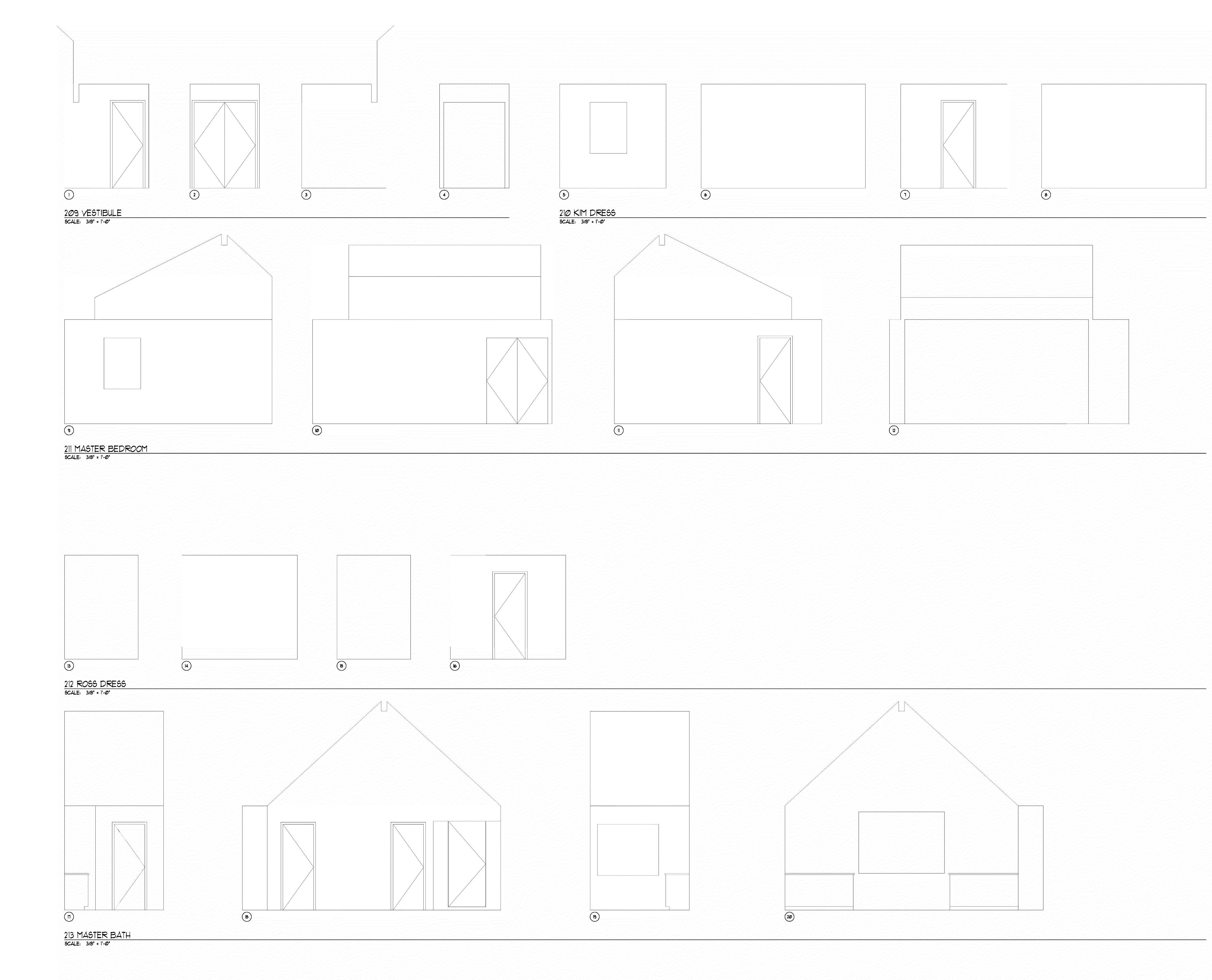


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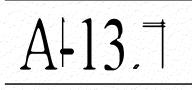


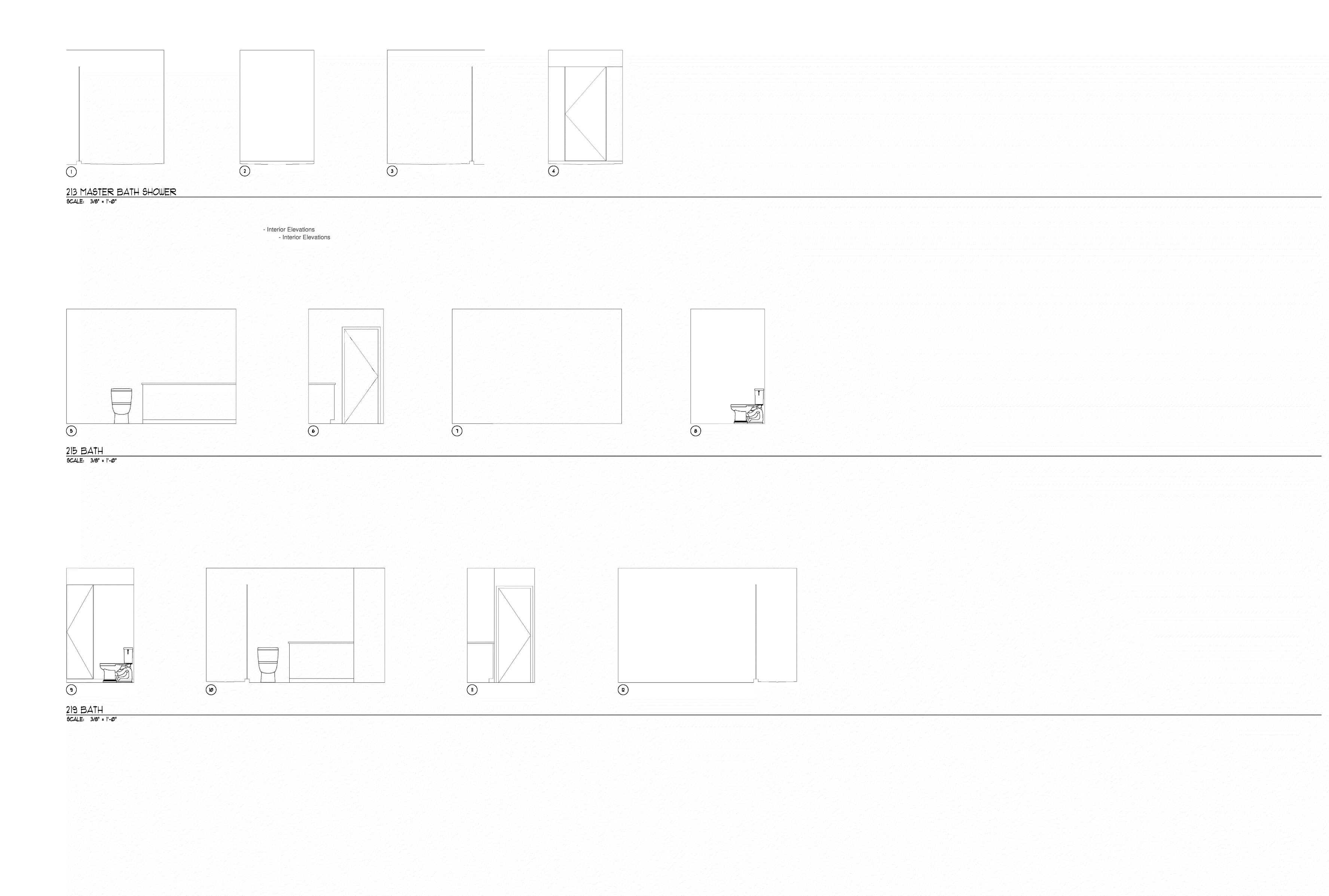
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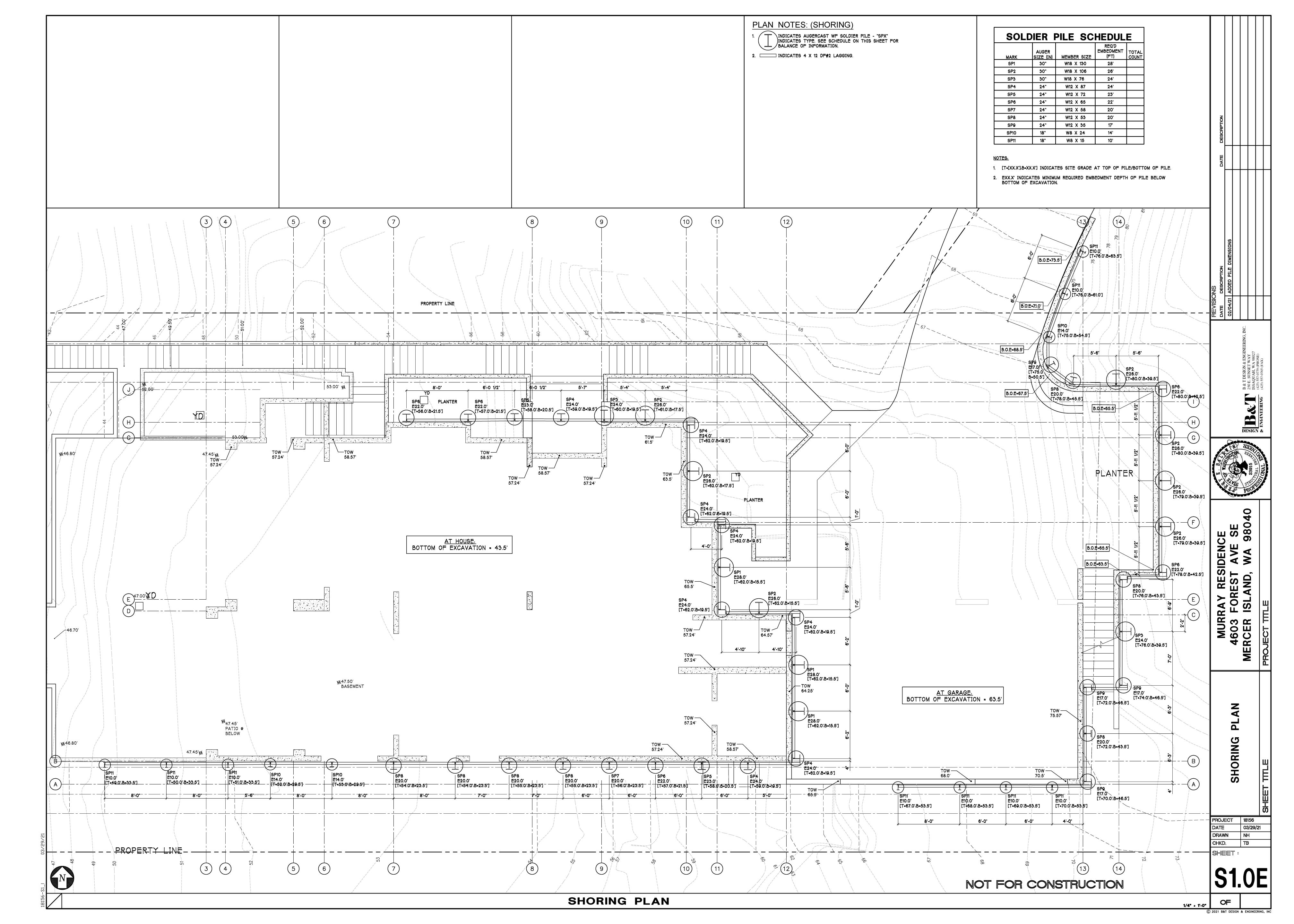
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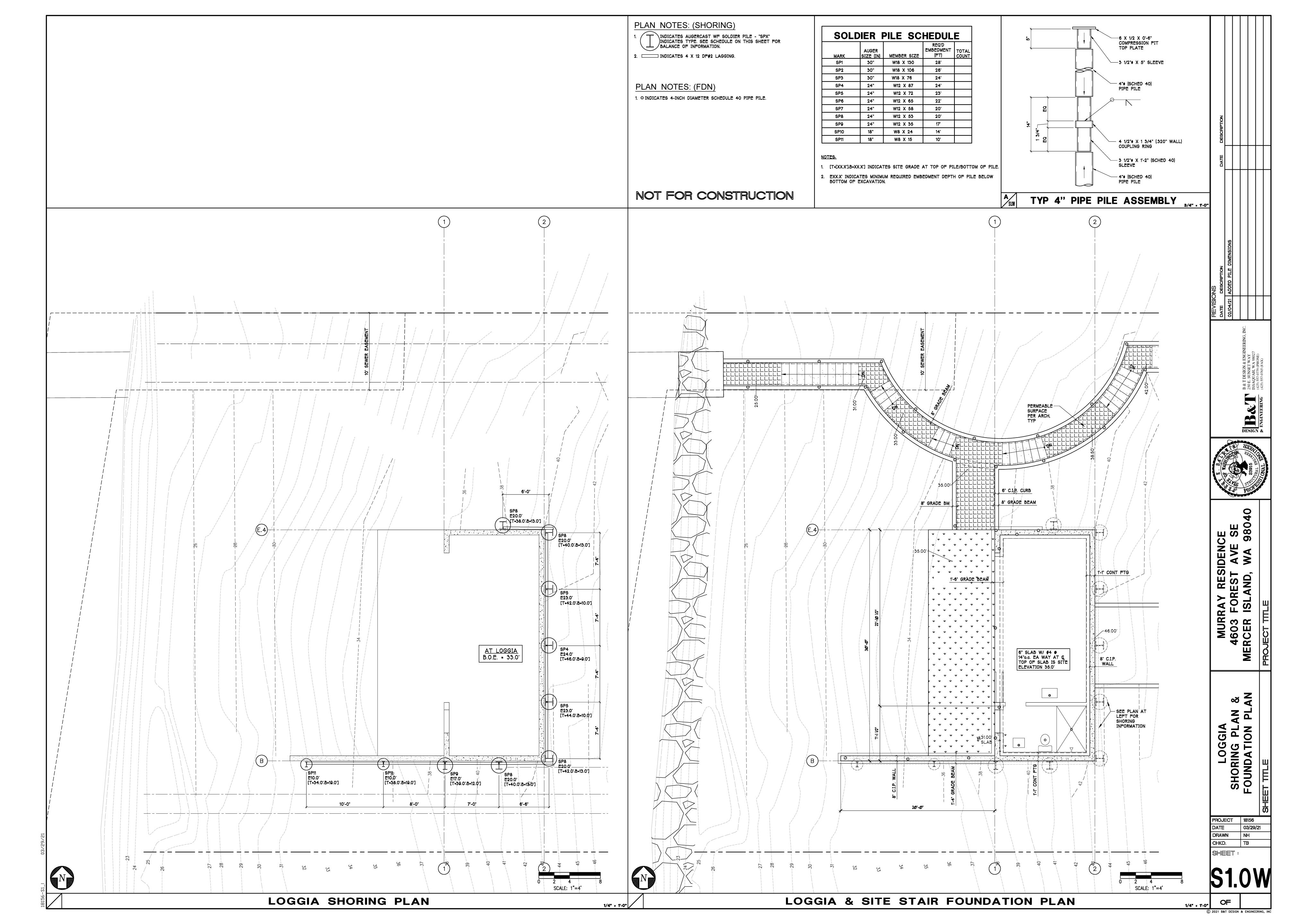
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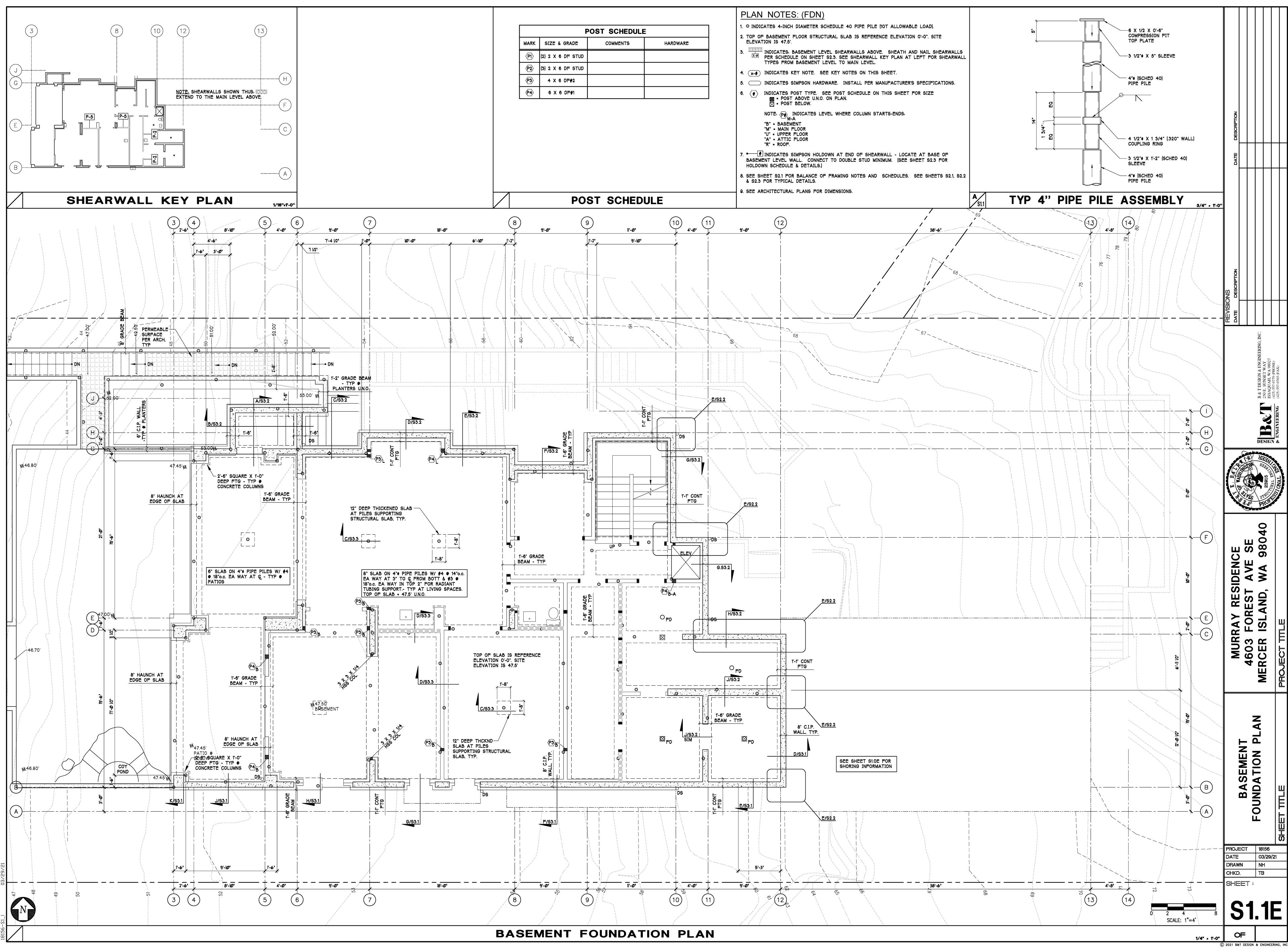
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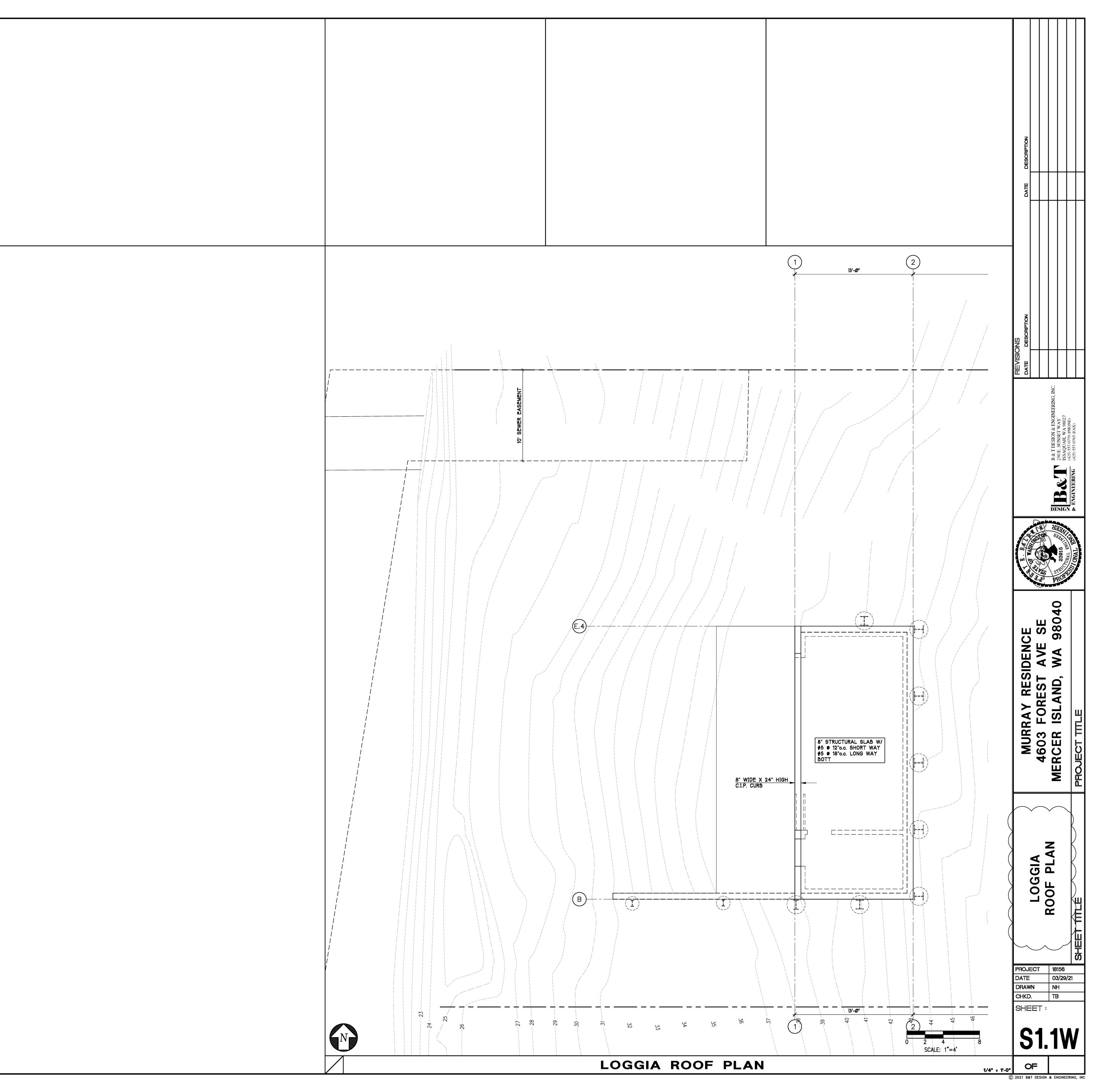
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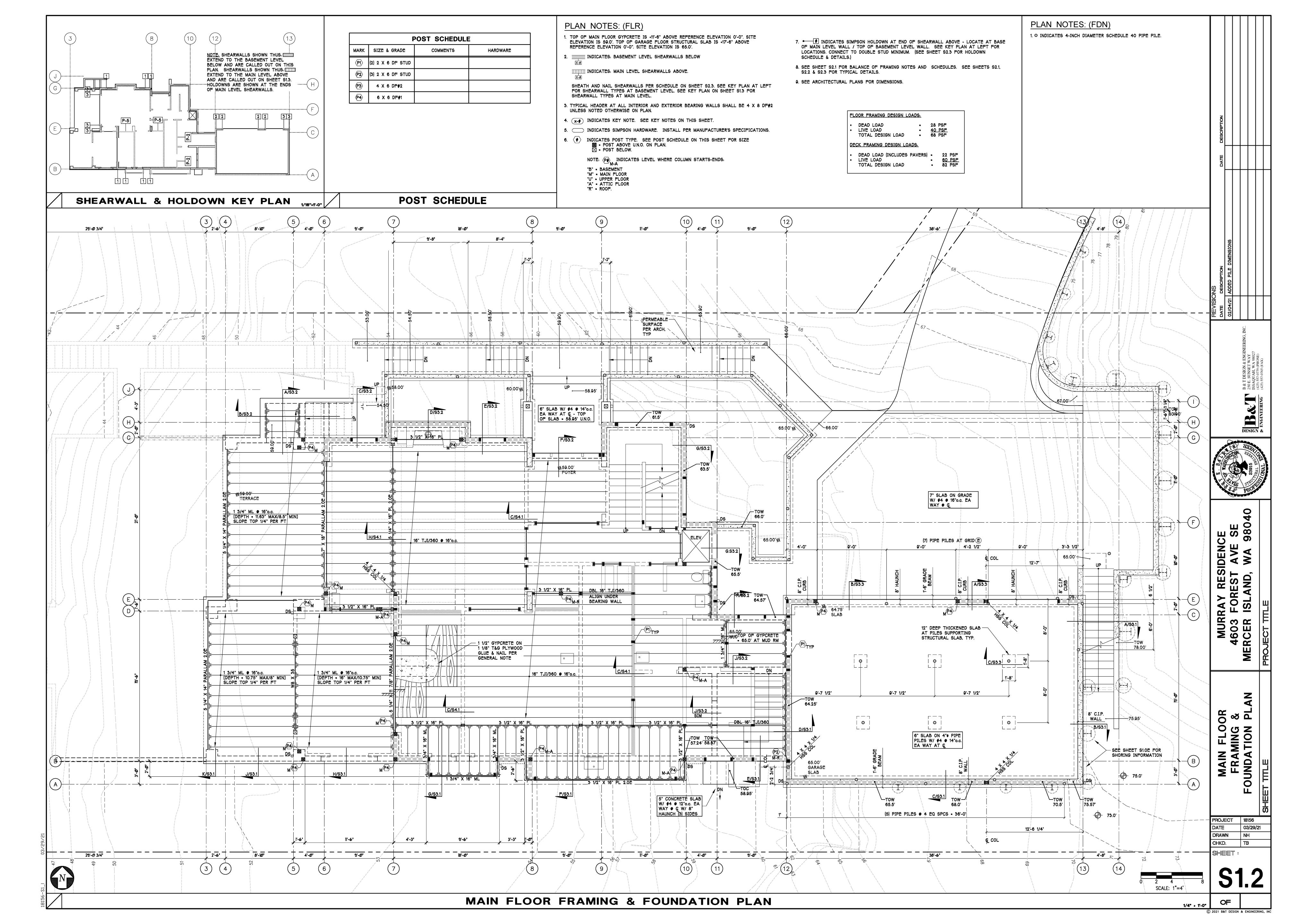


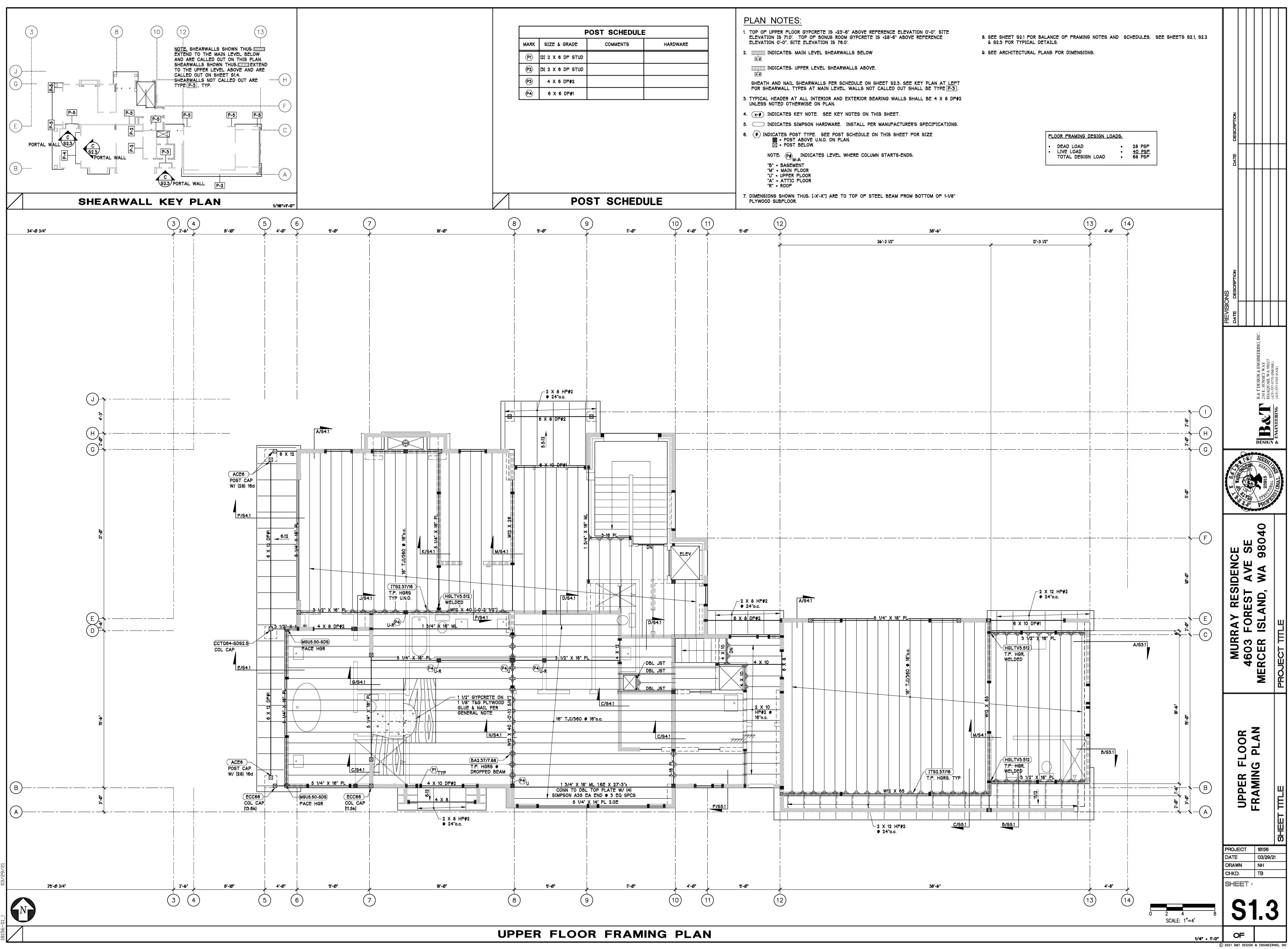




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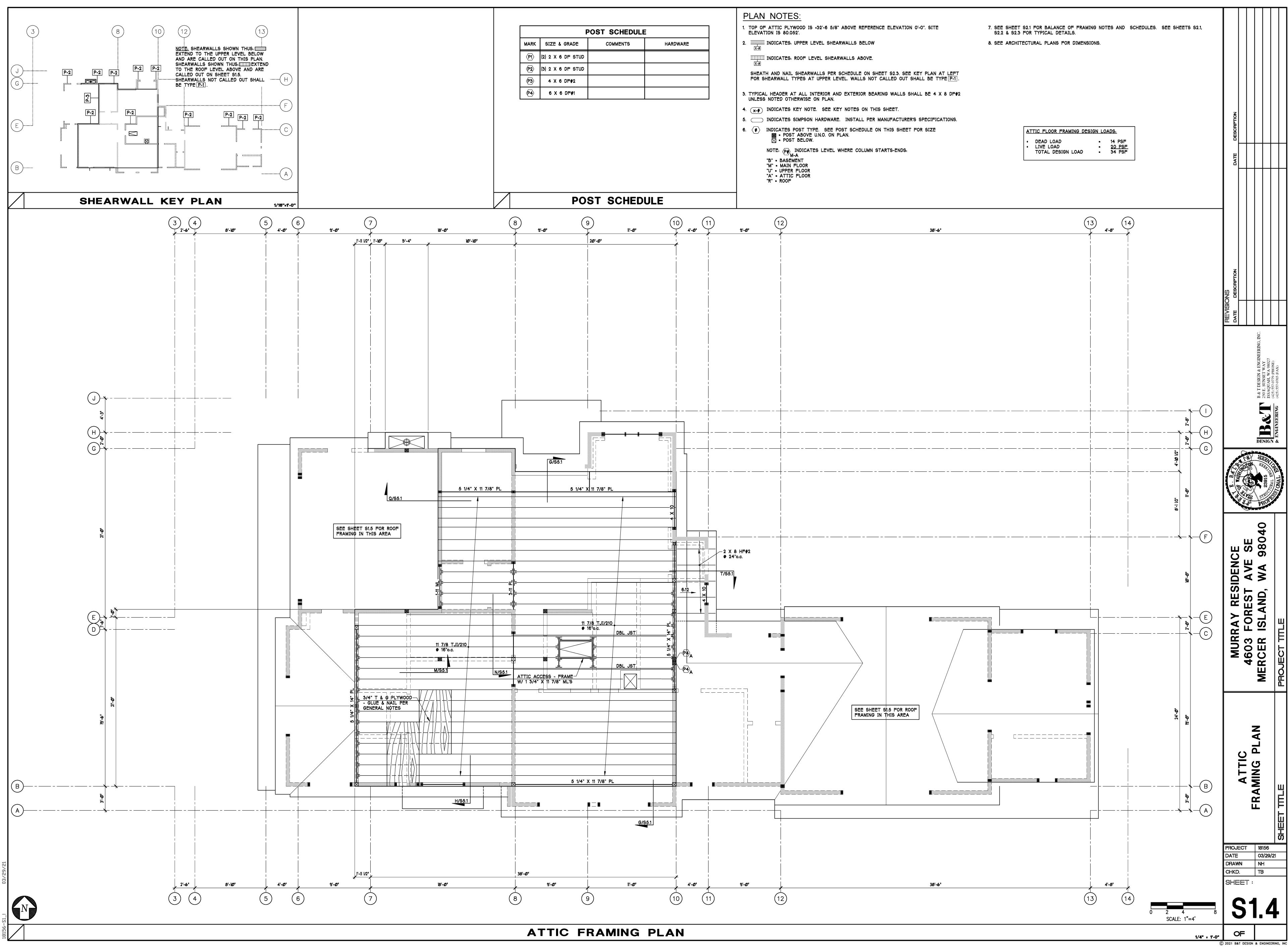






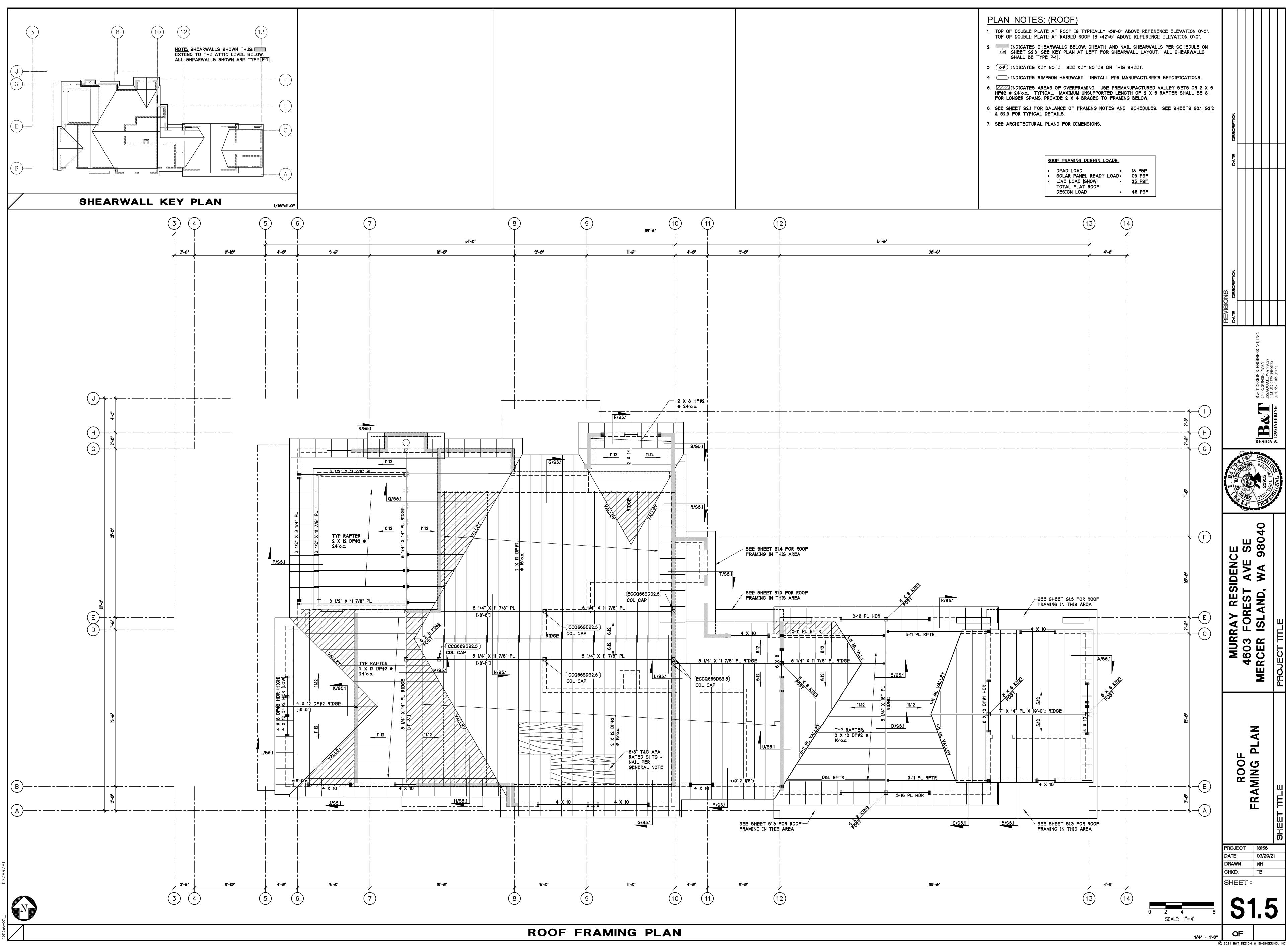


| FLOOR FRAMING DESIGN LO | ADS: |               |
|-------------------------|------|---------------|
| • DEAD LOAD             |      | 28 PSF        |
| LIVE LOAD               |      | <u>40 PSF</u> |
| TOTAL DESIGN LOAD       | =    | 68 PSF        |



|   |     |  | R BALANCE<br>PICAL DET |  | NOTES    | AND | SCHEDULES. | ( |
|---|-----|--|------------------------|--|----------|-----|------------|---|
| 0 | 655 |  |                        |  | <b>^</b> |     |            |   |

|   | TIC FLOOR FRAMING DES                       | GN LO | ADS:                              |
|---|---|-------|-----------------------------------|
| : | DEAD LOAD<br>LIVE LOAD<br>TOTAL DESIGN LOAD | •     | 14 PSF<br><u>20 PSF</u><br>34 PSF |





|               | PLAN NOTES         1. TOP OF DOUBLE PLA         1. TOP OF DOUBLE PLA         2. INDICATES SH         INDICATES SH         2. INDICATES SH         3. INDICATES SH         3. INDICATES SH         5. INDICATES SH         5. INDICATES SH         5. INDICATES SH         6. SEE SHEET 92.1 FOR         7. SEE ARCHITECTURAL | TE AT ROOF IS TY<br>TE AT RAISED ROO<br>EARWALLS BELOW.<br>EE KEY PLAN AT L<br>PE P-1.<br>Y NOTE. SEE KEY<br>MPSON HARDWARE.<br>EAS OF OVERFRAM<br>ICAL. MAXIMUM UN<br>PROVIDE 2 X 4 BR.<br>BALANCE OF FRAM<br>DETAILS. | F IS +42'-6" ABO<br>SHEATH AND NA<br>EFT FOR SHEAD<br>NOTES ON THIS<br>INSTALL PER NA<br>SUPPORTED LEN<br>ACES TO FRAMI<br>MING NOTES AND<br>SIONS.<br>ESIGN LOADS:<br>READY LOAD<br>NOW)<br>ROOF | OVE       REFERENCE       E         AIL       SHEARWALLS       F         RWALL       LAYOUT.       A         SHEET.       MANUFACTURER'S       S         ANUFACTURED       VAL         GTH       OF       2       X       6       RAI         GTH       OF       2       X       6       RAI         NG       BELOW.       D       SCHEDULES.       SI         18       PSF       03       PSF       25       PSF         18       PSF       14       PSF       15       PSF |
|---------------|--|---|---|--|
| (1            | 2)   | (1  | 3) (*   | <br>14)  |
|               | 5!'-6'   |   | 4'-8'   | ↓<br>★<br>   |
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| ET 51<br>IN T | A FOR ROOF<br>HIS AREA   |   |   |  |
| ET S1         | 3 FOR ROOF<br>HIS AREA 675 R/S5.1 FR   | F SUFFT S13 FOR   |   |  |
|               |  | E SHEET S1.3 FOR<br>AMING IN THIS ARE   |   |  |
|               | 3-11 PL RFTR₄ 4 X 1<br>= = = = = = = = = = = = = = = = = = =   |   | ₽<br> <br> <br>+  |  |

| REQUIRED | VERIFICATI | ON AND INS | <b>SPECTION</b> |
|----------|------------|------------|-----------------|
| OF SO    | ILS (TABLE | 1705.6 IBC | 2012)           |

|    |  |                                  | 16/                                |
|----|--|----------------------------------|------------------------------------|
|    | VERIFICATION AND INSPECTION TASK   | Continuous during<br>TASK Listed | PERIODICALLY DURING<br>TASK LISTED |
| 1. | VERIFY MATERIALS BELOW SHALLOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.                         | _                                | x                                  |
| 2. | VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.                                    | _                                | x                                  |
| 3. | PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.  | _                                | x                                  |
| 4. | VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES<br>DURING PLACEMENT AND COMPACTION OF COMPACTED FILL. | x                                | _                                  |
| 5. | PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE<br>AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.           | _                                | x                                  |

| С   | REQUIRED VERIFICA   |            |          |  | -                      |
|-----|---|------------|----------|--|------------------------|
|     | VERIFICATION AND INSPECTION   | CONTINUOUS | PERIODIC | REFERENCED<br>STANDARD <sup>a</sup>          | IBC REFERENCE          |
| 1.  | INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT  | -          | Х        | ACI 318: 3.5, 7.1-7.7                        | 1910.4                 |
| 2.  | INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1705.2.2, ITEM 2b  | -          | _        | AWS D1.4<br>ACI 318: 3.5.2                   | -                      |
| 3.  | INSPECTION OF ANCHORS CAST IN CONCRETE  | -          | Х        | ACI 318: D.9.2                               |                        |
| 4.  | <ul> <li>INSPECTION OF ANCHORS POST-INSTALLED IN<br/>HARDENED CONCRETE MEMBERS. <sup>b</sup></li> <li>a. ADHESIVE ANDHORS INSTALLED IN HORIZONALLY<br/>OR UPWARDLY INCLINED ORIENTATIONS TO<br/>RESIST SUSTAINED TENSION LOADS.</li> <li>b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS<br/>NOT DEFINED IN 4a.</li> </ul> | x<br>_     | -<br>x   | ACI 318: D.9.2.4<br>ACI 318: D.9.2           |                        |
| 5.  | VERIFYING USE OF REQUIRED DESIGN MIX  | -          | x        | ACI 318: CH 4, 5.2-5.4                       | 1904.2, 1910.2, 1910.3 |
| 6.  | AT THE TIME FRESH CONCRETE IS SAMPLED TO<br>FABRICATE SPECIMENS FOR STRENGTH TESTS,<br>PERFORM SLUMP AND AIR CONTENT TESTS, AND<br>DETERMINE THE TEMPERATURE OF THE CONCRETE  | x          | -        | ASTM C 172<br>ASTM C 31<br>ACI 318: 5.6, 5.8 | 1910.10                |
| 7.  | INSPECTION OF CONCRETE AND SHOTCRETE<br>PLACEMENT FOR PROPER APPLICATION TECHNIQUES   | X          | _        | ACI 318: 5.9, 5.10                           | 1910.6, 1910.7, 1910.8 |
| 8.  | INSPECTION FOR MAINTENANCE OF SPECIFIED<br>CURING TEMPERATURE AND TECHNIQUES  | _          | х        | ACI 318: 5.11-5.13                           | 1910.9                 |
| 9.  | INSPECTION OF PRESTRESSED CONCRETE:<br>a. APPLICATION OF PRESTRESSING FORCES<br>b. GROUTING OF BONDED PRESTRESSING TENDONS<br>IN THE SEISMIC FORCE-RESISTING SYSTEM   | x<br>x     | -        | ACI 318: 18.20<br>ACI 318: 18.18.4           | _                      |
| 10. | ERECTION OF PRECAST CONCRETE MEMBERS  | -          | Х        | ACI 318: CH. 16                              | -                      |
| 11. | VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR<br>TO STRESSING OF TENDONS IN POST-TENSIONED<br>CONCRETE AND PRIOR TO REMOVAL OF SHORES AND<br>FORMS FROM BEAMS AND STRUCTURAL SLABS   | -          | x        | ACI 318: 6.2                                 | -                      |
| 12. | INSPECT FORMWORK FOR SHAPE, LOCATION AND<br>DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED  | _          | x        | ACI 318: 6.1.1                               | -                      |

. WHERE APPLICABLE, SEE ALSO SECTION 1705.11, SPECIAL INSPECTION FOR SEISMIC RESISTANCE.

b. SPECIAL REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH ACI 355.2 OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.

SYSTEM OR MATERIAL

CONTRACTOR QUALITY

STEEL FABRICATION

CONTROL REQUIRMENTS

FABRICATION OF STRUCTURAL ELEMENTS

MATERIAL VERIFICATION OF STRUCTURAL STEEL

FOR OTHER STEEL, **IDENTIFICATION MARKINGS** TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS

MATERIAL VERIFICATION O WELD FILLER METALS

STRUCTURAL STEEL WELDIN VERIFYING USE OF PROPE WPS'S VERIFYING WELDER QUALIFICATIONS COMPLETE AND PARTIAL JOIN PENETRATION GROOVE WELDS MULTIPASS FILLET WELDS SINGLE PASS FILLET WELL GREATER THAN 5/16" PLUG SLOT WELDS SINGLE PASS FILLET WELDS LES THAN OR EQUAL TO 5/16" WELDING STAIR AND RAILING SYSTEMS

NOTES:

2. INSPECTION TYPES

PENDING OBSERVATIONS.

| INSPECT |
|---------|
|         |
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## **REQUIRED VERIFICATION AND INSPECTION OF** STRUCTURAL STEEL CONSTRUCTION (SECTION 1705 0 4 IDO 0040 ALOO 000

|              | 1705                                  | .2.1 II   | BC 20      | <b>)12</b> , / | AISC    | 360)    |   |
|--------------|---------------------------------------|---|------------|----------------|---------|---------|---|
|              |                                       |   |            |                |         |         |   |
|              | OSSC CODE<br>REFERENCE                |   |            |                |         | REMARKS |   |
|              | REFERENCE                             | REFERENCE   | CONTINUOUS | PERIODIC       | OBSERVE | PERFORM |   |
|              |                                       | AISC 360<br>CHAPTER N   | _          | _              | x       | x       | CONTRACTOR TO PROVIDE<br>QUALITY CONTROL FOR ALL<br>ITEMS INDICATED TO BE<br>OBSERVE AND/OR PERFORM<br>IN TABLE |
|              |                                       |   |            |                | -       |         |   |
|              | 1704.2.5.2                            | AISC 360 N2   | -          | х              | -       | -       | REFER TO INSPECTION OF<br>FABRICATOR REQUIREMENTS   |
| DF           | 1705.2.1<br>2203.1<br>TABLE<br>1705.2 | ASTM A6<br>ASTM STDS<br>SPECIFIED IN<br>CONSTRUCTION<br>DOCUMENTS<br>AISC 360 A3.1<br>AISC 360 N3.2 | -          | x              | -       | -       | Certified Mill Test<br>Reports  |
| S<br>I<br>TS | TABLE<br>1705.2                       | APPLICABLE<br>ASTM<br>STANDARDS   | -          | x              | -       | -       | MANUFACTURER'S CERTIFIED<br>TEST REPORTS  |
| DF           | TABLE<br>1705.2                       | AISC 360 A3.5<br>AISC 360 N3.2<br>APPLICABLE<br>AWS A5<br>DOCUMENTS                                 | -          | x              | -       | -       | MANUFACTURER'S CERTIFIED<br>TEST REPORTS  |
| DING         |                                       | -   | -          |                |         |         |   |
| ER           |                                       | AISC 360 N3.2   | -          | _              | -       | -       | RETAIN A RECORD OF WELDING<br>PROCEDURE SPECIFICATIONS  |
|              | 1705.2.2.1                            |   | _          | х              | -       | -       | RETAIN A RECORD OF<br>QUALIFICATION CARDS   |
| NT<br>S      |                                       |   | X          | _              | -       | -       |   |
| ;            |                                       |   | X          | _              | -       | -       |   |
| DS           | TABLE<br>1705.2                       | AWS D1.1<br>SECTION 6   | X          | _              | -       | -       | ALL WELDS VISUALLY<br>INSPECTED PER AWS D1.16.9   |
|              |                                       |   | X          | _              | -       | -       |   |
| SS           |                                       |   | -          | х              | -       | -       |   |
|              | 1705.2(2.5)                           | AWS D1.1<br>SECTION 6   | -          | х              | -       | -       | ALL WELDS VISUALLY<br>INSPECTED PER AWS D1.16.9   |
|              |                                       |   | _          | _              | _       | x       |   |

### 1. FOR STEEL INSPECTIONS PER AISC 360 AND 341:

a. QUALITY ASSURANCE (QA) IS REQUIRED FOR EACH ITEM IN TABLES UNLESS SPECIFICALLY NOTED OTHERWISE. b. QUALITY CONTROL (QC) TO BE PROVIDED BY THE FABRICATOR, ERECTOR OR OTHER RESPONSIBLE CONTRACTOR AS APPLICABLE. CONTRACTOR AND SPECIAL INSPECTOR TO DOCUMENT QUALITY CONTROL AS REQUIRED IN AISC 360 SECTION N3 AND AISC 341 SECTION J2.

a. CONTINUOUS: THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED. b. PERIODIC: THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK. c. OBSERVE: OBSERVE THESE FUNCTIONS ON A RANDOM, DAILY BASIS. OPERATIONS NEED NOT BE DELAYED d. PERFORM: INSPECTIONS SHALL BE PERFORMED PRIOR TO THE FINAL ACCEPTANCE OF THE ITEM.

## TION TABLES

|                          | WOOD                 | STUD SCHEDULE                              |                      |
|--------------------------|----------------------|--|----------------------|
| LEVEL #4                 | EXTERIOR WALLS       | INTERIOR 2 X 6 WALLS                       | INTERIOR 2 X 4 WALLS |
| BASEMENT - MAIN FLOOR    | 2 X 6 DF#2 ❷ 16"o.c. | 2 X 6 DF#2 ❷ 16"o.c.                       | 3 X 4 DF#2 ❷ 16"o.c. |
| MAIN FLOOR - UPPER FLOOR | 2 X 6 DF#2 ❷ 16"o.c. | 2 X 6 DF#2 ❷ 16"o.c.                       | 2 X 4 DF#2 ❷ 16"o.c. |
| UPPER FLOOR - ROOF       | 2 X 6 DF#2 ❷ 24"o.c. | 2 X 6 DF STUD GRADE<br>OR BETTER © 24"o.c. | 2 X 4 DF#2 	 24"o.c. |

1. ALL STUDS SHALL ALIGN UNDER FRAMING.

2. SEE SHEARWALL SCHEDULE FOR ADDITIONAL REQUIREMENTS FOR 3 X FRAMING IN HIGH STRESS SHEARWALLS. 3. PROVIDE (2) 2 X 4 STUDS AT STAIR OPENINGS WHERE LENGTH OF STUD EXCEEDS 10 FEET.

| GENERAL NOTE<br>CODE: INTERNATIONAL BUILDING CODE 2015 EDITION<br>ALL ASTM'S CALLED OUT ARE TO BE THE LATEST EDITION                                  |
|---|
| <b>LIVE LOADS</b><br>BUILDING RISK CATEGORY II (IBC TABLE 1604.5)   |
| $ \begin{array}{llllllllllllllllllllllllllllllllllll$   |
| $\begin{array}{llllllllllllllllllllllllllllllllllll$  |
| FOUNDATION<br>FOUNDATION DESIGN WAS BASED UPON SOILS REPORT NO. JN20086 BY GEOTECH CONSULTANTS,<br>DATED MAY 5, 2020. THE FOLLOWING VALUES WERE USED: |
| LATERAL EARTH PRESSURE: 45 PCF EFP (ACTIVE-UNRESTRAINED; LEVEL BACKFILL)<br>55 PCF EFP (ACTIVE-UNRESTRAINED; SLOPING BACKFILL)<br>                    |
| ALL EXTERIOR FOOTINGS AND GRADE BEAMS SHALL BE A MINIMUM OF 1'-6" BELOW FINISH GRA  |

SLABS AND FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR STRUCTURAL FILL COMPACTED TO 95% MAXIMUM DRY DENSITY PER ASTM D-1557 AS RECOMMENDED IN SOILS REPORT. CONTRACTOR SHALL PROVIDE PERMANENT POSITIVE DRAINAGE OF BUILDING PERIMETER. ALL SITE PREPARATION AND GRADING SHALL BE DONE IN ACCORDANCE WITH SOILS REPORT.

DRILLED PILES PILE LENGTH SHOWN ON PLAN IS BASED ON DEPTH BELOW SITE ELEVATION X'. THE SOILS ENGINEER SHALL INSPECT THE INSTALLATION OF THE PILES AND WILL MAKE THE FINAL DETERMINATION OF PILE PENETRATION FOR LOADS SHOWN BELOW BASED ON CONDITIONS THAT HE/SHE OBSERVES DURING INSTALLATION OF EACH PILE. fc FOR GROUT FOR PILING IS 4000 PSI. USE 10 SACKS CEMENT PER CUBIC YARD OF CONCRETE MINIMUM. ALTERNATE MIX DESIGN MAY BE SUBMITTED TO ENGINEER FOR APPROVAL. SUBMIT PILING RECORDS TO THE ENGINEER AND BUILDING DEPARTMENT FOR APPROVAL PRIOR TO POURING PILE CAPS.

PIPE PILES GALVANIZED STEEL DRIVEN PIPE PILES ARE TO BE THE FOUNDATION SYSTEM TO SUPPORT THE DEAD LOADS ANTICIPATED FROM THE BUILDING AND ITS FOUNDATION.

FOUR INCH DIAMETER (SCHEDULE 40) PIPE PILES DRIVEN WITH A MINIMUM 800 POUND HYDRAULIC HAMMER TO A FINAL PENETRATION RATE OF ONE INCH OR LESS FOR ONE MINUTE OF CONTINUOUS DRIVING MAY BE ASSIGNED AN ALLOWABLE COMPRESSIVE LOAD OF 10 TONS PER PTI F

PILE CAPS SIMILAR TO CONVENTIONAL FOOTINGS SHOULD BE USED TO TRANSMIT LOADS TO THE PILES. NO LESS THAN TWO PILES SHOULD BE INCLUDED IN EACH PILE CAP. WELDED COUPLERS SHOULD BE USED TO CONNECT SUBSEQUENT PIPE SECTIONS ON PILES THAT NEED TO EXTEND IN LENGTH. LOAD TESTS ARE REQUIRED ON 3 PERCENT OF THE INSTALLED PILES UP TO A MAXIMUM OF 5 PILES AND SHALL BE PER ASTM STANDARD D1143-07.

GEOTECH CONSULTANTS WILL BE REQUIRED TO DO ON SITE MONITORING OF PILE DRIVING TO DETERMINE THEIR FINAL PENETRATION.

### CONCRETE

STRUCTURAL STEEL

f'c = 3000 psi FOR ALL WALLS. FOOTINGS & SLABS ON GRADE ULTIMATE STRENGTH DESIGN METHOD USED. MIXING AND PLACING OF ALL CONCRETE AND SELECTION OF MATERIALS SHALL BE IN ACCORDANCE WITH THE IBC AND ACI CODE 318. PROPORTIONING OF AGGREGATE TO CEMENT SHALL BE SUCH AS TO PRODUCE A DENSE WORKABLE MIX WITH 5" MAXIMUM SLUMP WHICH CAN BE PLACED WITHOUT SEGREGATION OR EXCESS FREE SURFACE WATER. FOR ADMIXTURES, SEE SPECIFICATIONS. 1/2" CHAMFER ALL EXPOSED EDGES, UNLESS INDICATED OTHERWISE ON ARCHITECTURAL DRAWINGS. WATER CURING SHALL BE USED. AIR ENTRAIN ALL CONCRETE EXPOSED TO WEATHER WITH 3% TO 6% AIR BY VOLUME.

REINFORCING STEEL ALL CONCRETE REINFORCING STEEL SHALL BE DEFORMED PER ASTM A615, GRADE 60 (fy=60,000 psi) EXCEPT ALL #4 SLAB DOWELS SHALL BE GRADE 40 (fy=40,000 psi). LAP CONTINUOUS REINFORCING BARS 30 BAR DIAMETERS, 1'-7" MINIMUM UNLESS NOTED OTHERWISE. CORNER BARS (1'-7" BEND) WILL BE PROVIDED FOR ALL HORIZONTAL REINF. DETAIL STEEL IN ACCORDANCE WITH "ACI MANUAL OF STANDARD PRACTICE OF DETAILING REINFORCED CONCRETE STRUCTURES". WELDED WIRE FABRIC (WWF) TO CONFORM WITH ASTM A185. REINFORCING HOOKS TO COMPLY WITH STANDARD ACI HOOKS.

UNLESS NOTED OTHERWISE, COVER TO MAIN REINFORCEMENT TO BE: CONCRETE CAST AGAINST &

PERMANENTLY EXPOSED TO EARTH . . . . . . . 3 INCHES CONCRETE EXPOSED TO EARTH OR WEATHER . . 1 1/2 INCHES (#5 BARS & SMALLER) ....2 INCHES (#6 THRU #18 BARS) CONCRETE NOT EXPOSED TO WEATHER

ALL WORK IN ACCORDANCE WITH "AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", AND THE "CODE OF STANDARD PRACTICE".

|    | STRUCTURAL STEEL BEAMS CONFORMS WITH ASTM A992 (Fy=50,000 PSI)                   |
|----|--|
|    | TUBE COLUMNS CONFORM WITH ASTM A500 GRADE B (Fy=46,000 PSI)                      |
|    | MISC STEEL PLATES CONFORM WITH   |
|    | STEEL PLATES AT MOMENT FRAMES CONFORM WITH ASTM A572 (Fy=50,000 PSI)             |
|    | WELDHEAD STUDS CONFORM WITH  |
|    | BOLTS (WOOD TO STEEL) CONFORM WITH ASTM A307                                     |
|    | BOLTS (STEEL TO STEEL) CONFORM WITH ASTM A325N                                   |
| RC | DVIDE MINIMUM EMBEDMENT FOR ANCHOR BOLTS PER IBC TABLE 1908.2 FOR CONCRETE. ALL  |
| EL | DING TO CONFORM WITH AWS D1.1 "CODE FOR WELDING IN BUILDING CONSTRUCTION". WELDS |
| 01 | SPECIFIED SHALL BE 1/4" CONTINUOUS FILLET MINIMUM. ALL WELDS BY WABO CERTIFIED   |
|    |  |

WELDERS. USE FRESH 70XX ELECTRODES. SEE SPECIFICATIONS FOR ITEMS TO BE GALVANIZED. NOTE: BOLTS ARE NOT AN EQUAL SUBSTITUTE FOR WELDHEAD STUDS. EPOXY DOWELS

EPOXY SHALL BE SIMPSON "EPOXY-TIE SET-XP" FROM SIMPSON STRONG-TIE PLEASANTON. CA. ANCHORING ADHESIVE SHALL BE A TWO-COMPONENT HIGH-SOLIDS EPOXY-BASED SYSTEM SUPPLIED IN MANUFACTURER'S STANDARD CARTRIDGE AND DISPENSED THROUGH A STATIC-MIXING NOZZLE SUPPLIED BY THE MANUFACTURER. THE ADHESIVE ANCHOR SHALL HAVE BEEN TESTED AND QUALIFIED FOR PERFORMANCE IN CRACKED AND UNCRACKED CONCRETE PER ICC-ES-AC308. DOWELS SHALL BE DEFORMED BAR PER "REINFORCING STEEL" NOTE ABOVE. PROVIDE SIZE AND EMBEDMENT AS SPECIFIED ON PLANS AND DETAILS. DOWELS SHALL BE INSTALLED PER SIMPSON STRONG-TIE'S INSTRUCTIONS FOR SET-XP EPOXY-TIE ADHESIVE. EPOXY ANCHORS

EPOXY SHALL BE SIMPSON "EPOXY-TIE SET-XP" FROM SIMPSON STRONG-TIE PLEASANTON. CA. ANCHORING ADHESIVE SHALL BE A TWO-COMPONENT HIGH-SOLIDS EPOXY-BASED SYSTEM SUPPLIED IN MANUFACTURER'S STANDARD CARTRIDGE AND DISPENSED THROUGH A STATIC-MIXING NOZZLE SUPPLIED BY THE MANUFACTURER. THE ADHESIVE ANCHOR SHALL HAVE BEEN TESTED AND QUALIFIED FOR PERFORMANCE IN CRACKED AND UNCRACKED CONCRETE PER ICC-ES-AC308. ANCHORS SHALL BE THREADED ROD CONFORMING TO ASTM A36. PROVIDE DIAMETER AND EMBEDMENT AS SPECIFIED ON PLANS AND DETAILS. ANCHORS SHALL BE INSTALLED PER SIMPSON STRONG-TIE'S INSTRUCTIONS FOR SET-XP EPOXY-TIE ADHESIVE.

| TIMBER     |  |
|------------|--|
| 2X MEMBERS | (Fb=1270 psi REP.) (2 X<br>(Fb=1035 psi REP.) (2 X |
| 4X MEMBERS |  |
|            | <br>(Fb=990 psi) (4 X 12 OR                        |
| 6X MEMBERS | (Fb=1350 psi)                                      |

UMBER NOT NOTED TO BE . . . . . D.F.#2 BOLTS IN WOOD CONFORM WITH ASTM A307

INC.

ALL GRADES SHALL CONFORM TO "WWPA GRADING RULES FOR WESTERN LUMBER -- LATEST EDITION." BOLT HEADS AND NUTS BEARING AGAINST WOOD SHALL BE PROVIDED WITH STANDARD CUT WASHERS. PLATE WASHERS A MINIMUM OF 3" X 3" X 1/4" SHALL BE USED AT ALL SILL PLATE ANCHOR BOLTS. ALL NEW FRAMING LUMBER SHALL HAVE 19% MAXIMUM MOISTURE CONTENT AT TIME OF INSTALLATION. ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED. ALL NAILS ARE "COMMON" UNLESS INDICATED OTHERWISE. MINIMUM NAILING PER IBC TABLE 2304.9.1. S4S TYPICAL UNLESS NOTED OTHERWISE. SUBSTITUTION OF OTHERS SPECIES WITHOUT WRITTEN APPROVAL OF THE ENGINEER IS PROHIBITED. MISCELLANEOUS HANGERS TO BE SIMPSON OR I.C.C. APPROVED EQUAL. ALL CONNECTORS FOR PRESSURE TREATED LUMBER AND ALL NAILS IN EXTERIOR SHEATHING SHALL BE HOT-DIPPED GALVANIZED. NAIL ALL HOLES WITH NAILS AS

SPECIFIED BY MANUFACTURER UNLESS NOTED OTHERWISE ON DRAWINGS. ANCHOR BOLTS INTO CONCRETE SHALL HAVE MINIMUM EMBEDMENT PER IBC TABLE 1908.2.

NAILS SHALL BE COMMON, AMERICAN OR CANADIAN MANUFACTURED ONLY WITH MINIMUM DIAMETERS AS FOLLOWS:

| NAIL DESIGNATION  | MINIMUM NAIL SHANK<br>DIAMETER (IN) | MINIMUM<br>NAIL LENGT |
|-------------------|-------------------------------------|-----------------------|
| 8d                | 0.131"ø                             | 2 1/2"                |
| 10d               | 0.148"ø                             | 3"                    |
| 16d SINKER OR 12d | 0.148"ø                             | 3 1/4"                |
| 16d               | 0.162 <b>"</b> ø                    | 3 1/2"                |
| 20d               | 0.192"ø                             | 4"                    |

MICROLAM & PARALLAM MEMBERS ALL MICROLAM & PARALLAM MEMBERS SHALL BE TRUS JOIST OR ENGINEER APPROVED EQUAL WHICH DEMONSTRATES ICC AND NRB ACCEPTANCE. MINIMUM MEMBER PROPERTIES SHALL BE AS FOLLOWS:

| 1 3/4" MICROLAM<br>3 1/2" PARALLAM<br>5 1/4" PARALLAM | -<br>-<br>- | Fb = 2900  psi; | Fv = 290 psi;  | E =<br>E =<br>E = |
|---|-------------|-----------------|----------------|-------------------|
| J 1/4 PARALLAM  | -           | FD = 2900  psi; | FV = 290  psi; | F =               |

SIMPSON STRONG-TIE HARDWARE ALL FRAMING HARDWARE SHALL BE SIMPSON STRONG-TIE OR ENGINEER APPROVED EQUAL. CONTRACTOR SHALL INSTALL ALL FRAMING HARDWARE WITH SIZE, TYPE AND NUMBER OF FASTENERS SPECIFIED BY THE MANUFACTURER.

ROOF, FLOOR, DECK & SHEARWALL SHEATHING ROOF SHEATHING SHALL BE 5/8" (NOMINAL) APA RATED SHEATHING 40/20, EXPOSURE 1, SIZED FOR SPACING. INSTALL PANELS WITH 1/8" SPACING AT END JOINTS AND 1/4" SPACING AT EDGE JOINTS. NAILING SHALL BE 10d (COMMON) AT 6"o.c. AT PANEL EDGES AND 12"o.c. AT INTERMEDIATE SUPPORTS U.N.O. ON PLANS.

FLOOR SHEATHING SHALL BE 1 1/8" (NOMINAL) APA RATED T&G STURD-I-FLOOR, EXPOSURE 1 AT INTERIOR APPLICATIONS, EXTERIOR AT DECKS, SIZED FOR SPACING. INSTALL WITH 1/8" SPACING BETWEEN EDGE AND END JOINTS. GLUE AND NAIL ALL SUPPORTS AND BLOCKING. NAILING SHALL BE 10d (COMMON) AT 6"o.c. AT PANEL EDGES AND 10"o.c. AT INTERMEDIATE SUPPORTS U.N.O. ON

DECK & ATTIC FLOOR SHEATHING SHALL BE 3/4" (NOMINAL) APA RATED T&G STURD-I-FLOOR 48/24, EXPOSURE 1 AT INTERIOR APPLICATIONS, EXTERIOR AT DECKS, SIZED FOR SPACING. INSTALL WITH 1/8" SPACING BETWEEN EDGE AND END JOINTS. GLUE AND NAIL ALL SUPPORTS AND BLOCKING. NAILING SHALL BE 10d (COMMON) AT 6"o.c. AT PANEL EDGES AND 10"o.c. AT INTERMEDIATE SUPPORTS U.N.O. ON PLANS.

SHEARWALL SHEATHING SHALL BE 1/2" (NOMINAL) APA RATED SHEATHING WALL-16, EXPOSURE 1, SIZED FOR SPACING. ALLOW 1/8" SPACING AT PANEL ENDS AND EDGES UNLESS OTHERWISE RECOMMENDED BY THE PANEL MANUFACTURER. BLOCK ALL PANEL EDGES AND NAIL PER SHEARWALL SCHEDULE ON SHEET S2.1.

SHOP DRAWINGS SUBMIT THREE SETS OF SHOP DRAWINGS TO THE ENGINEER AND ONE SET TO THE BUILDING DEPARTMENT FOR APPROVAL PRIOR TO FABRICATION FOR: REINFORCING STEEL, MISC. & STRUCTURAL STEEL, PLYWOOD WEB JOISTS, MICROLAMS AND PARALLAMS.

SPECIAL INSPECTIONS INSPECTIONS ARE TO BE PER IBC CHAPTER 17, SECTIONS 1704 AND 1705 AND ARE TO BE BY AN INDEPENDENT TESTING LAB AND APRROVED BY THE OWNER AND BUILDING DEPARTMENT AND ENGAGED BY AND PAID FOR BY THE OWNER PRIOR TO STARTING CONSTRUCTION. FOUNDATION: INSPECT FOOTINGS AND EXCAVATIONS JUST PRIOR TO CONCRETE PLACEMENT TO INSURE MATERIAL IS DRY AND DENSE. CONCRETE:

SLUMPS. REINFORCING: VERIFY ALL REINFORCING IS PLACED IN ACCORDANCE WITH APPROVED PLANS. CHECK FOR REQUIRED COVER, SIZE AND GRADE. FLOOR & ROOF NOTIFY BUILDING DEPARTMENT AND ENGINEER OF RECORD FOR INSPECTION 48 HOURS PRIOR TO COVERING. DIAPHRAGM:

WELDING: INSPECT ALL FIELD WELDING. VERIFY CERTIFICATION OF WELDERS. CONTRACTOR SHALL PAY FOR REWELDING AND REINSPECTION OF ALL WELDS NOT MEETING SPECS. INSPECTOR SHALL NOTIFY STRUCTURAL ENGINEER OF WELDS NOT MEETING SPECS.

EPOXY ANCHOR: SPECIAL INSPECTION IS REQUIRED.

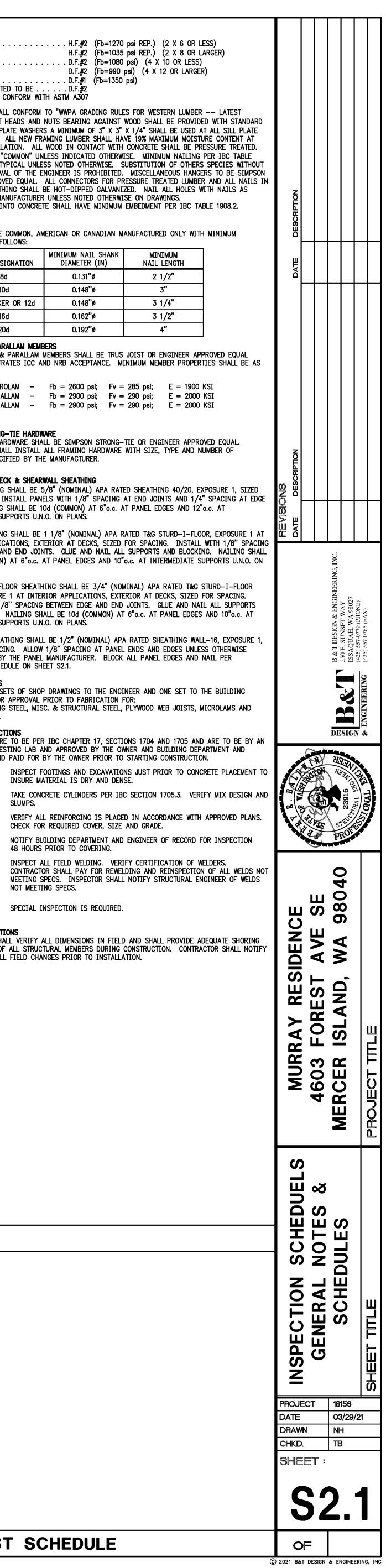
SPECIAL CONDITIONS

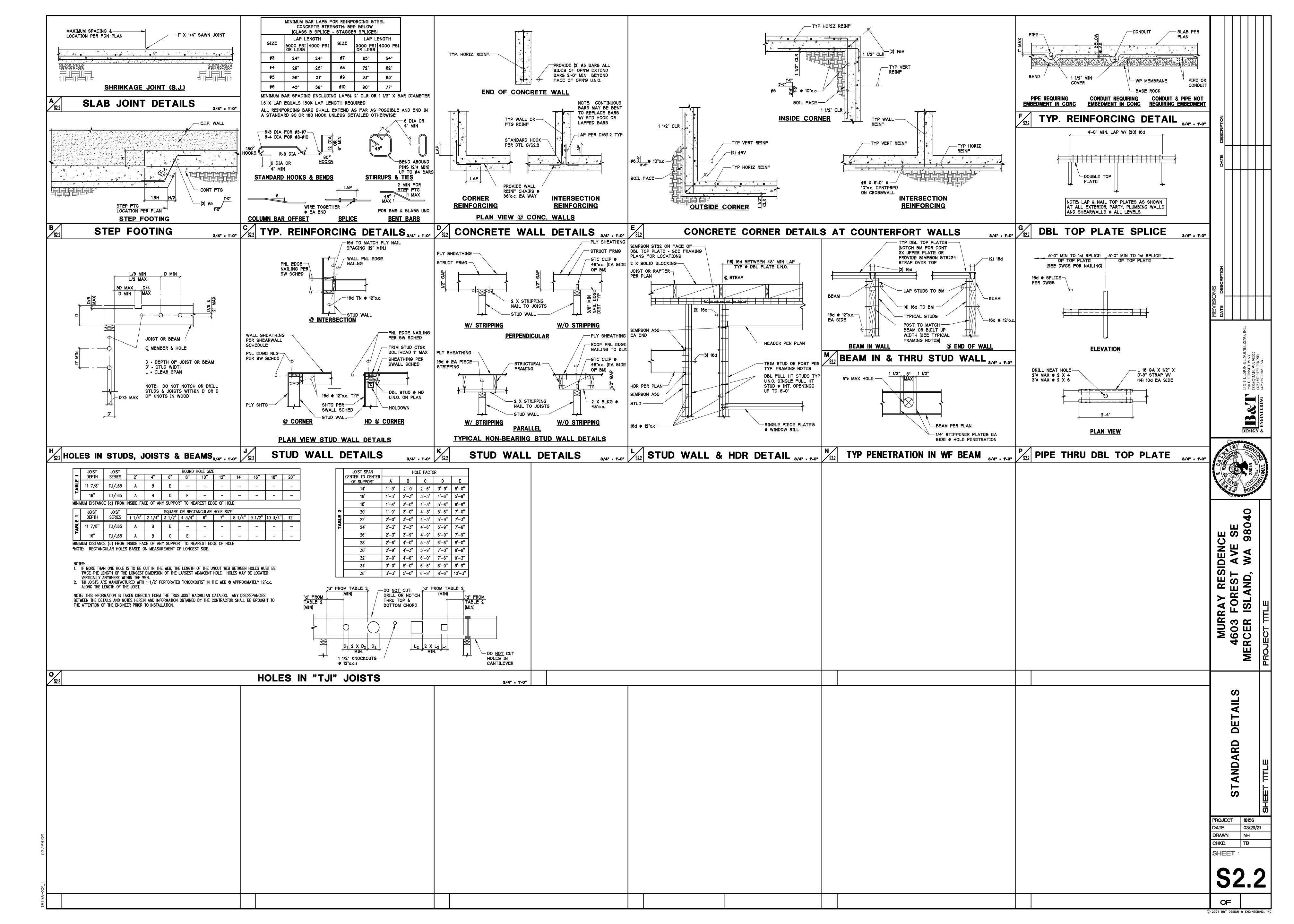
CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD AND SHALL PROVIDE ADEQUATE SHORING AND BRACING OF ALL STRUCTURAL MEMBERS DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER OF ALL FIELD CHANGES PRIOR TO INSTALLATION.

## **GENERAL NOTES**

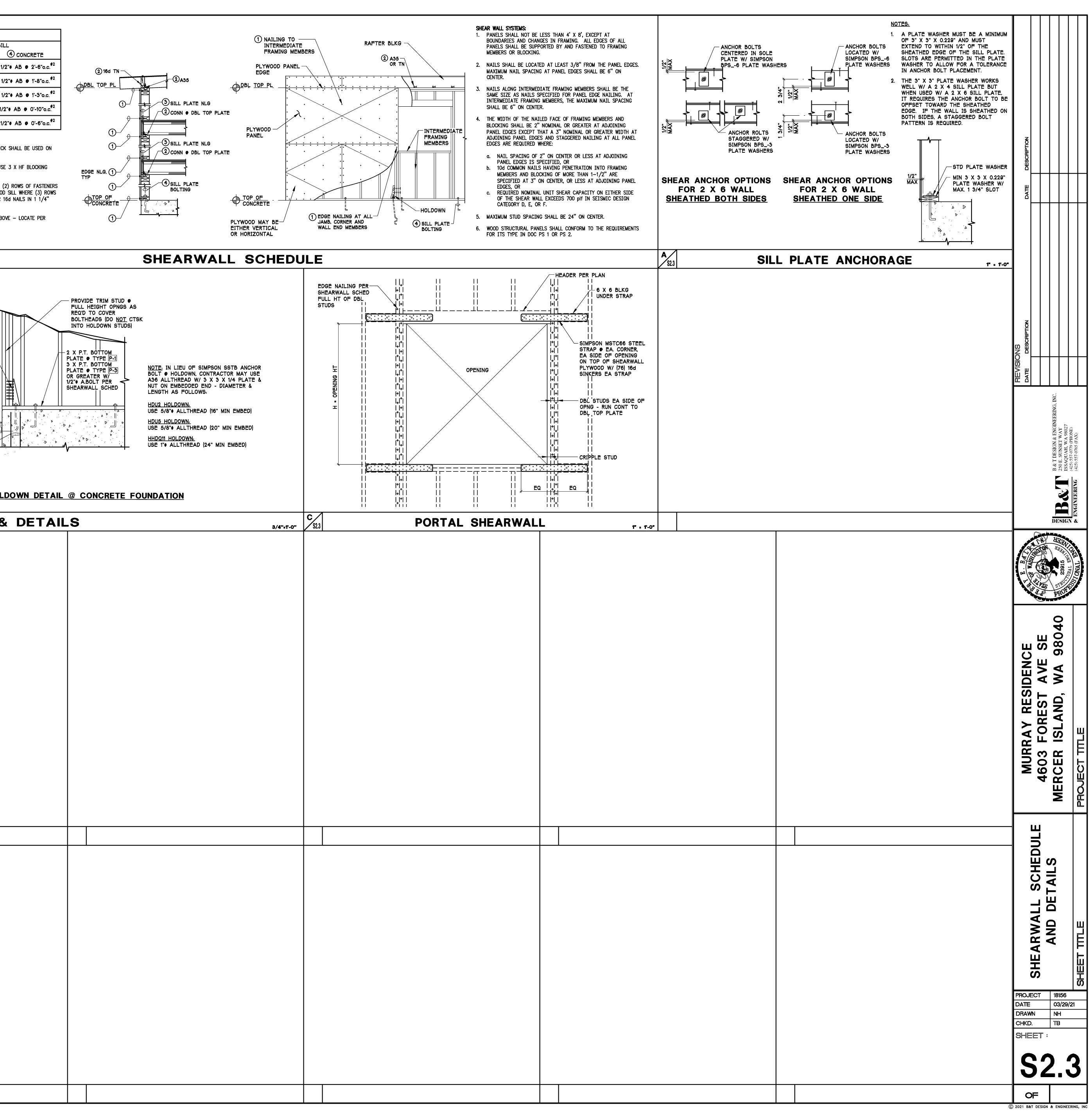
WOOD STUD SCHEDULE

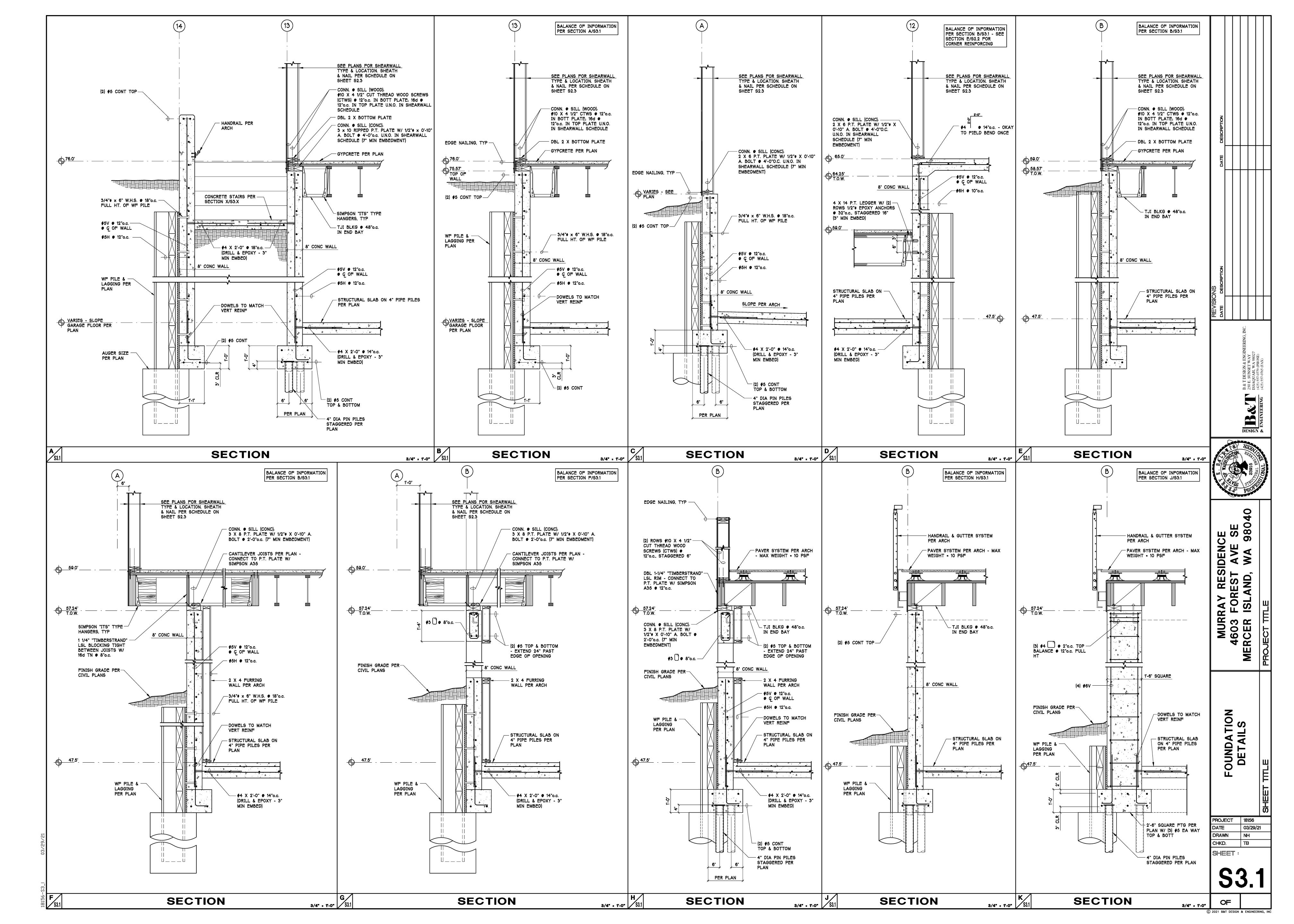
## **POST SCHEDULE**

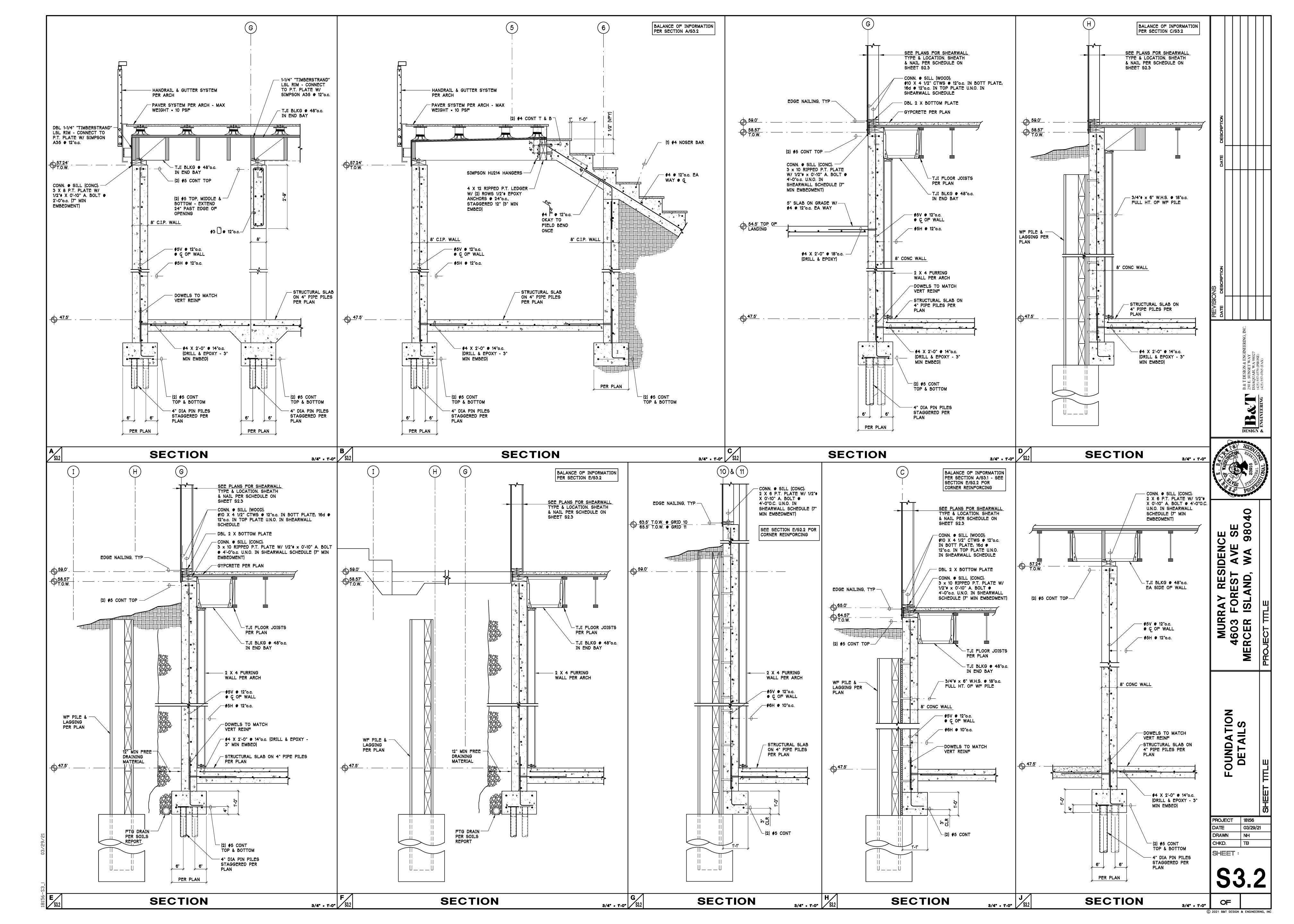


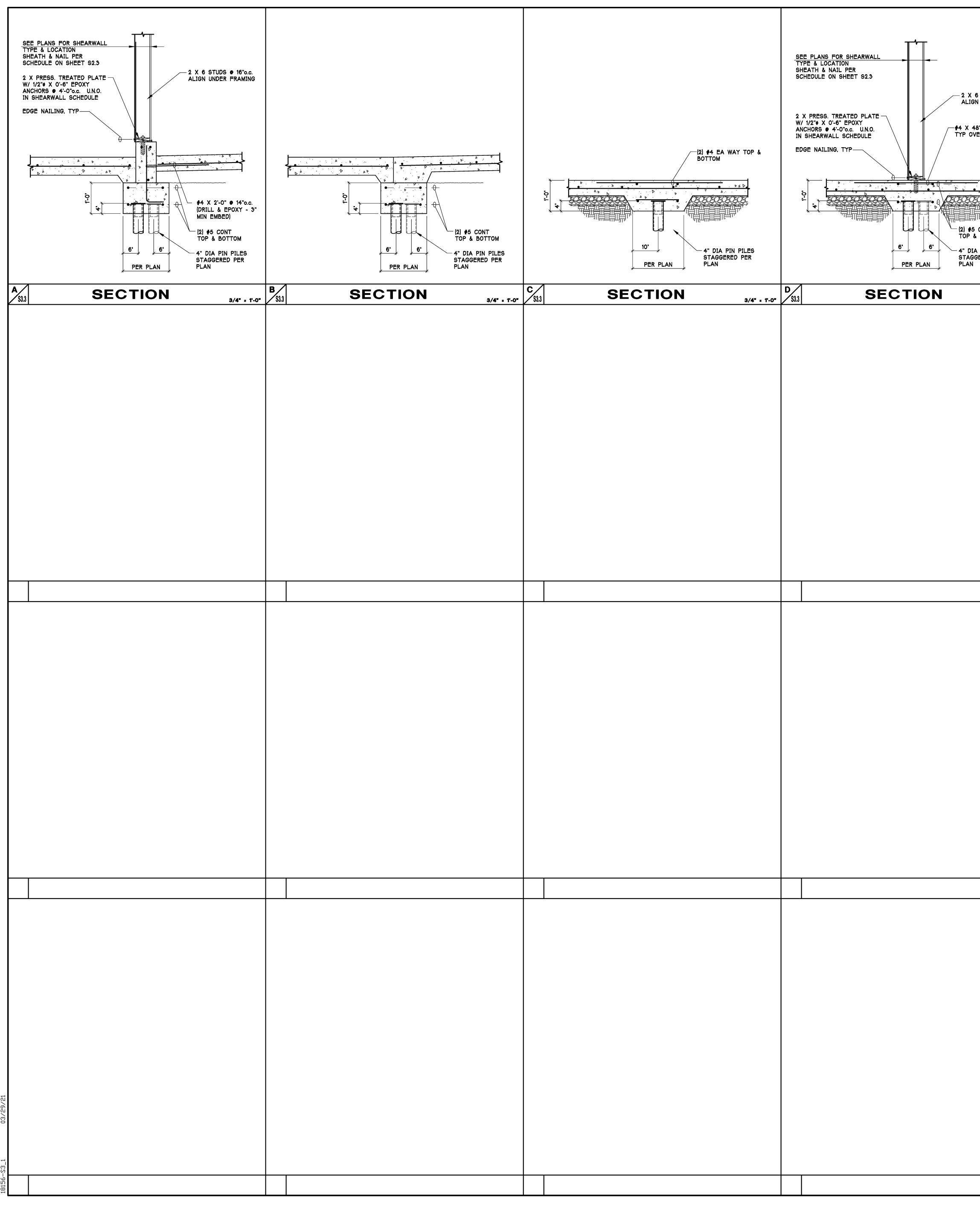


| TYPE                               |   |  |  | RUCIURA  |  | L SHEAR W                                 | ALL SCHEDULE  |  |
|------------------------------------|---|--|--|--|--|---|---|--|
|                                    | EQ / 1  |  | BLK  |  | LING <sup>#1a</sup>  | (2) RIM JOIST/BLOCKING<br>TO DBL TOP PL   |   | r sill                                       |
|                                    | (PLI<br>240 /   | =)<br>1/0" DI YM   |  | sc #3 8d @ 6'  | "o.c. EDGE,<br>c. FIELD  | SIMPSON A35<br>© 16"o.c.                  | 16d • 6"o.c.  | 1/2"   |
| P-2                                | 350 /   |  | 100D YE  | sc <sup>#3</sup> 8d ● 4'   | o.c. EDGE.<br>FIELD  | SIMPSON A35<br>9 12"o.c.                  | (2) ROWS 16d @ <sup>#4</sup><br>6"o.c., STAGGER 3"  | 1/2'   |
| P-3                                | 480 /   | 670 1/2" PLYW<br>BOTH SI   | DES YE   | S <sup>#3</sup> 8d ● 6'<br>12"o.c  | "o.c. EDGE,<br>c. FIELD  | SIMPSON A35<br>Ø 8"o.c.                   | (2) ROWS 16d @ <sup>#4</sup><br>3"o.c., STAGGER 1 1/2"  | 1/2'   |
| <b>P-4</b>                         | 700 /   |  | <u>, , , , , , , , , , , , , , , , , , , </u>  | 12'o.c   | "o.c. EDGE. <sup>#1b</sup><br>:. FIELD   | SIMPSON LS90<br>9 12"o.c.<br>SIMPSON LS90 | (2) ROWS 1/4" × 0'-4" LAG #4<br>SCREWS • 8"o.c., STAGGER 4"<br>(2) ROWS 1/4" × 0'-4" LAG #4   | 1/2"(  |
| P-5<br>YPICAL SH<br>WOOD<br>a<br>b | 980 /<br>HEAR WALL N<br>STRUCTURAL<br>. 8d NAILS<br>PENETRAT<br>CROWN AI<br>FASTENER<br>MECHANIC<br>. WHERE PL<br>OFFSET T<br>3" WDE (<br>. FRAMING<br>BE 3-INC<br>REQUIRED<br>. ALLOWABL | BOTH SI         1370       1/2" PLYW<br>BOTH SI         0TES<br>PANEL SHEAR WALLS:         SHALL BE COMMON (2<br>ION INTO FRAMING. N<br>ND 1 1/2" LENGTH MA<br>S EXPOSED TO WEATH<br>FALLY DEPOSITED, OR E<br>SYWOOD IS APPLIED BO<br>O FALL ON DIFFERENT<br>NOMINAL) AND NAILS<br>AT ADJOINING PANEL E<br>H NOMINAL OR WIDER<br>SHEAR CAPACITY EXC<br>E SHEAR VALUES IN T<br>I) NO SUBSTITUTION (2) | 2 1/2" X 0.113<br>0. 14 GAGE S<br>Y BE USED OF<br>ER SHALL BE<br>ELECTRO DEPO<br>TH SIDES OF<br>FRAMING MEM<br>ON EACH SIDE<br>EDGES AND BO<br>AND NAILS SH<br>EEDS 700 plf.<br>TABLE ABOVE OF<br>FRAME ABOVE OF<br>THESSER GR | 12 0.0         35" DIAMETER) WITH 1 3         TAPLES WITH A MINIMU         VE FOR ONE IN LIEU OU         ZINC COATED BY HOT         SITED         SHEAR WALL, PANEL JO         BERS, OR FRAMING MEI         SHEAR WALL, PANEL JO         BERS, OR FRAMING MEI         SHEAR WALL, PANEL JO         BERS, OR FRAMING MEI         SHEAR WALL, BE STAGGERED WI         ARE FOR HEM-FIR FRA         OUPS WILL BE ALLOWED         SCHEDULE         CONNECTION RE         FAST         (6) SDS 1/4 X 2 | "o.c. EDGE, *15<br>FIELD<br>5/8" MINIMUM<br>M 7/16" OD<br>F 8d NAILS.<br>DIP GALVANIZING,<br>OINTS SHALL BE<br>MBERS SHALL BE<br>MBERS SHALL BE<br>MING MEMBERS<br>D.<br>AR WALLS SHALL<br>HERE THE<br>MING MEMBERS<br>D.<br>EQUIREMENTS<br>TENERS<br>1/2 WOOD SCRI<br>UBLE STUD | SIMPSON LS90                              | (2) ROWS 1/4" × 0'-4" LAG **<br>SCREWS • 6"o.c., STAGGER 3"<br>AINIMUM OF 3 INCH X 3 INCH X 0.229 INCH<br>SEE DETAIL A/S2.3.<br>BE 2X HEM-FIR STUD GRADE OR BETTER.<br>'NOTE #1b. & 1c.)<br>OCKING OR RIM JOIST UNDER WOOD SILL WH<br>/IDE TRIPLE BLOCKING OR RIM JOIST UNDER<br>REQUIRED. (CLOSEST ALLOWABLE SPACING<br>. RIM IS 6"o.c.).<br>INNECTION TYPE AS DESCRIBED IN SCHEDULE<br>SIMPSON HOLDOWN •<br>END OF SHEARWALL<br>PER PLAN - PROVIDE<br>FASTENERS PER | THICK<br>(USE<br>ERE (2)<br>WOOD S<br>FOR 16 |
|                                    | []  |  | 20 5/8"  | (14) SDS 1/4 X 2   |  |   | HOLDOWN SCHEDULE<br>ON THIS SHEET   |  |
|                                    | 2   | HDU5-SDS2.5  | 20 5/8"  | SSTB24 ANCHOR  | BOLT INTO C  |   | PER SCHEDULE<br>ABOVE   |  |
|                                    | 3   | HHDQ11-SDS2.5  | 24 7/8" _  |  | AD INTO CONC.  |   | PER (   |  |
|                                    |   |  |  |  |  | HOLDOW                                    | b H   | <u>old</u>                                   |
|                                    |   |  |  |  |  |   |   |  |
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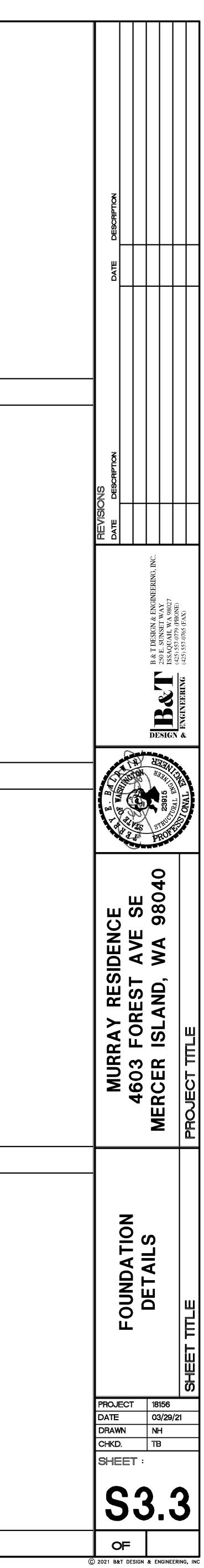


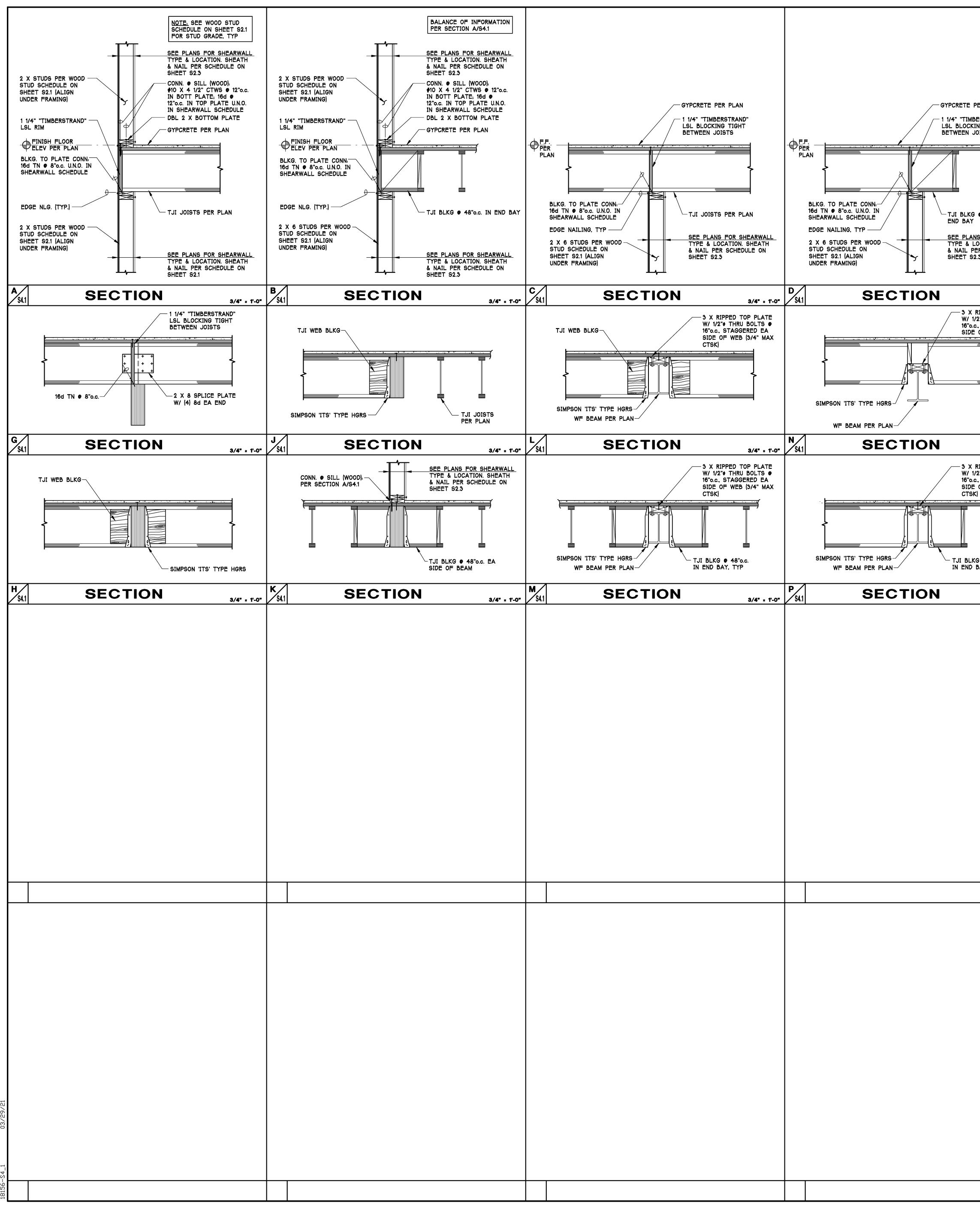




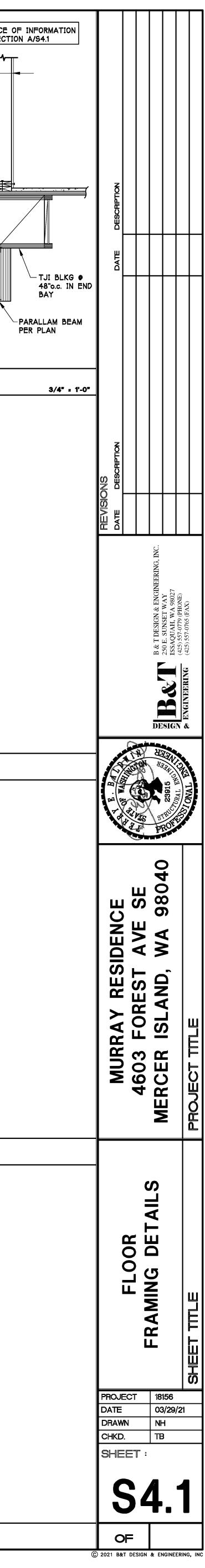


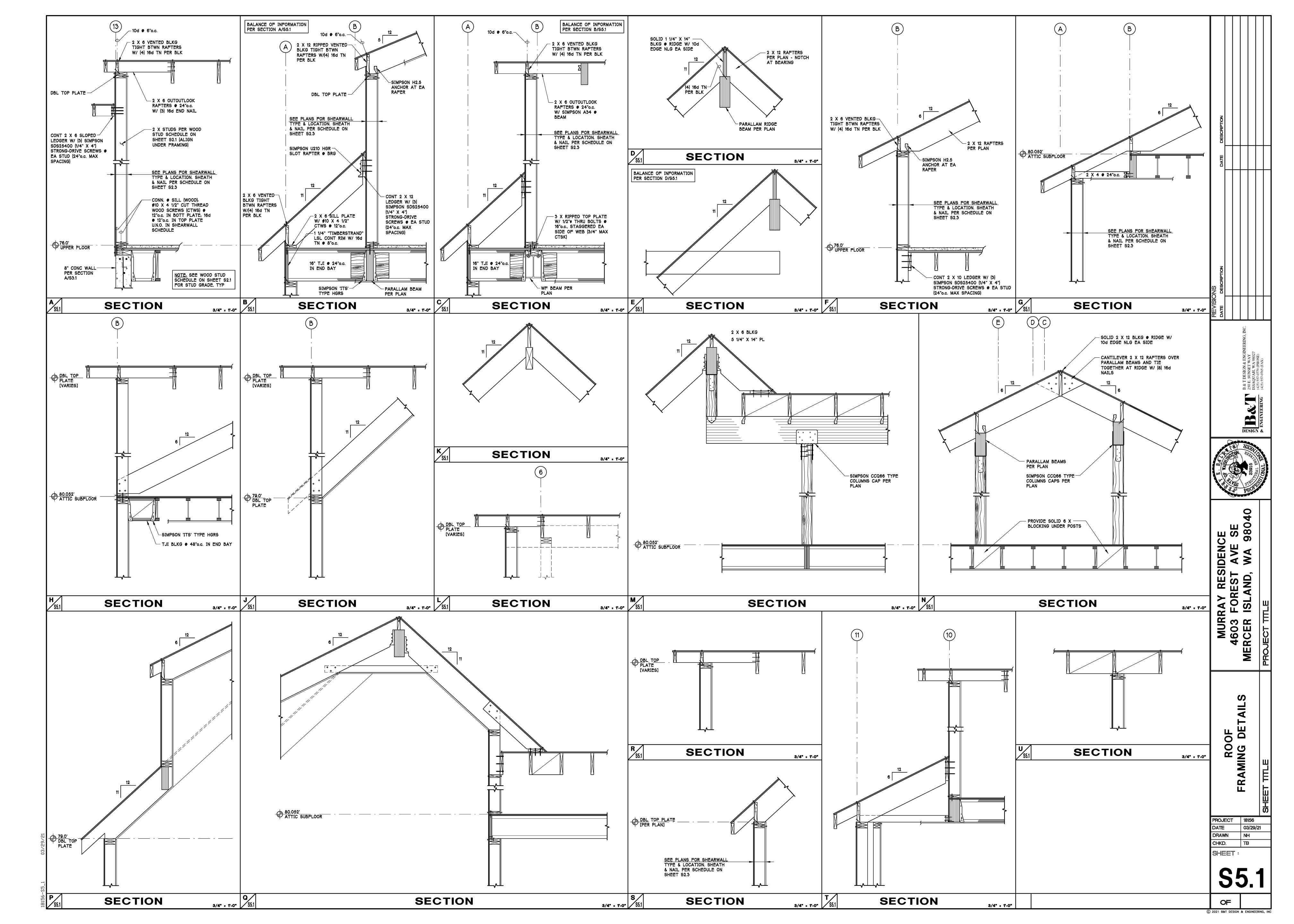
| 6 STUDS • 24"o.c.<br>GN UNDER FRAMING<br>48" • 12"o.c TOP -<br>OVER GRADE BEAMS<br>• • • • • • • • • • • • • • • • • • • |  |  |
|--|--|--|
| GGERED PER<br>N<br><b>3/4" = 1'-0"</b>   |  |  |
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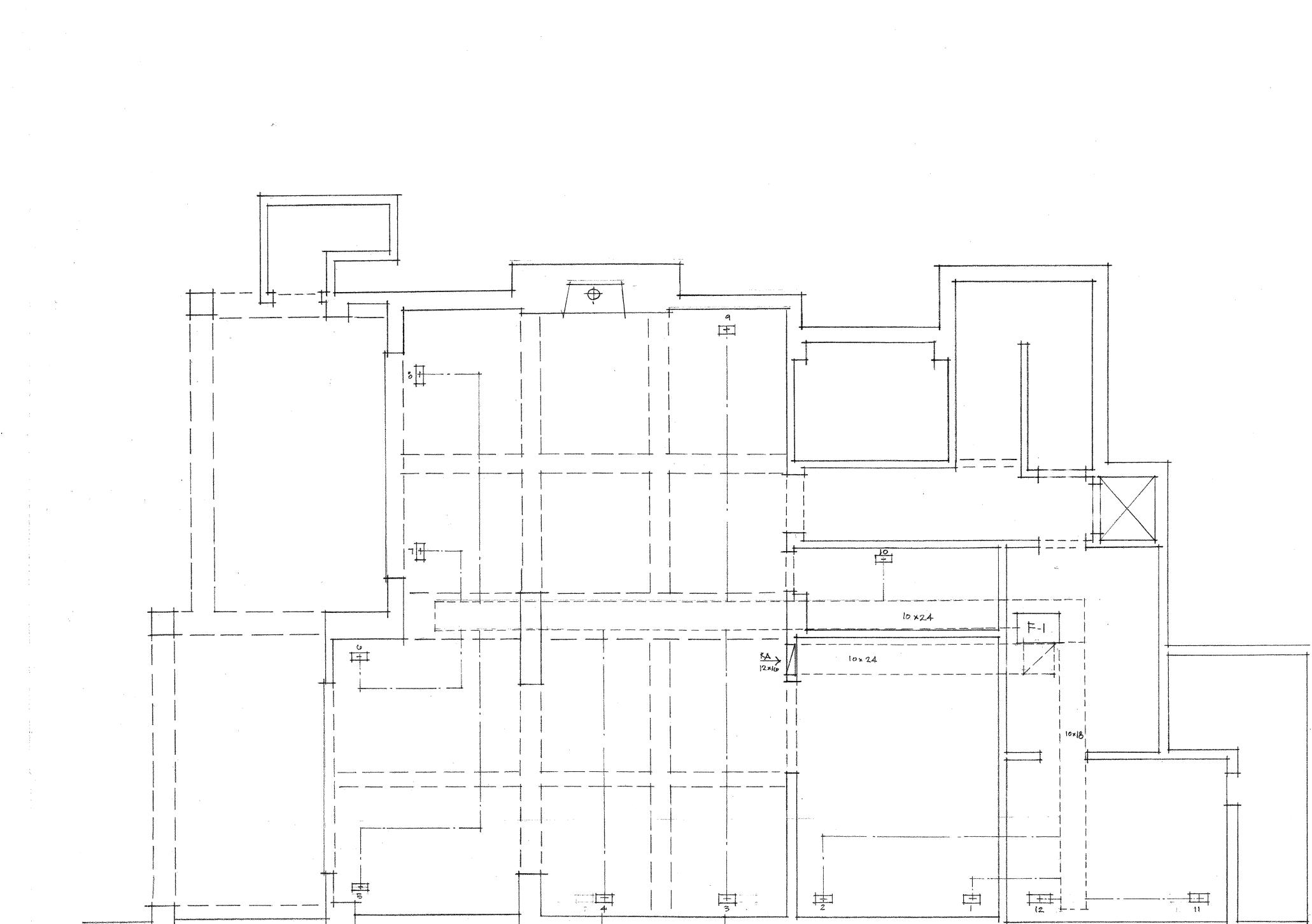




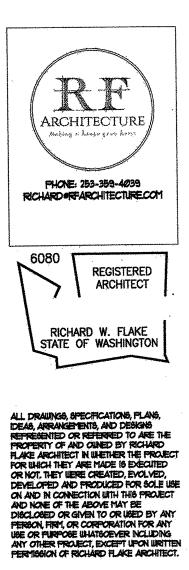
|   | BALANCE OF INFORMATION<br>PER SECTION A/S4.1   | BALANCE<br>PER SEC   |
|---|--|--|
|   | SEE PLANS FOR SHEARWALL<br>TYPE & LOCATION. SHEATH<br>& NAIL PER SCHEDULE ON<br>SHEET S2.3             | SEE PLANS FOR SHEARWALL<br>TYPE & LOCATION. SHEATH<br>& NAIL PER SCHEDULE ON<br>SHEET S2.3 |
| ER PLAN   | CONTINUOUS 1 1/4"  | CONT 2 X 8 LEDGER W/<br>(2) #10 X 3" CUT THREAD<br>WOOD SCREWS (CTWS) @                    |
| ERSTRAND"<br>NG TIGHT<br>DISTS  | CONT 2 X 8 LEDGER W/<br>[2] #10 X 3" CUT THREAD<br>WOOD SCREWS (CTWS) •<br>16"o.c.<br>SIMPSON U26 HGRS | 16"o.c.<br>SIMPSON U26 HGRS  |
|   | 2 X 4 BLKG TIGHT<br>BTWN RAFTERS W/<br>(4) 16d TN PER BLK  | SIMPSON H2.5 6<br>ANCHOR AT EA<br>RAFTER   |
| ● 48"o.c. IN  |  | CONTINUOUS 1 1/4"-<br>TIMBERSTRAND' LSL RIM<br>CONNECT TO PL BEAM W/                       |
| S FOR SHEARWALL<br>DCATION. SHEATH<br>R SCHEDULE ON                         | 6 X 6 POST   | SIMPSON A35 • 16"o.c.<br>2 X 4 BLKG TIGHT<br>BTWN RAFTERS W/<br>(4) 16d TN PER BLK         |
| .3  | SIMPSON POST   | F  |
| 3/4" = 1'-0"<br>RIPPED TOP PLATE<br>2"# THRU BOLTS @                        | SECTION 3/4" = 1'-0"   | SECTION  |
| , STAGGERED EA<br>OF WEB  |  |  |
|   |  |  |
|   |  |  |
| 3/4" = 1'-0"  |  |  |
| RIPPED TOP PLATE<br>2"# THRU BOLTS #<br>., STAGGERED EA<br>OF WEB (3/4" MAX |  |  |
|   |  |  |
| € ● 48"o.c.<br>3AY, TYP   |  |  |
| 3/4" = 1'-0"  |  |  |
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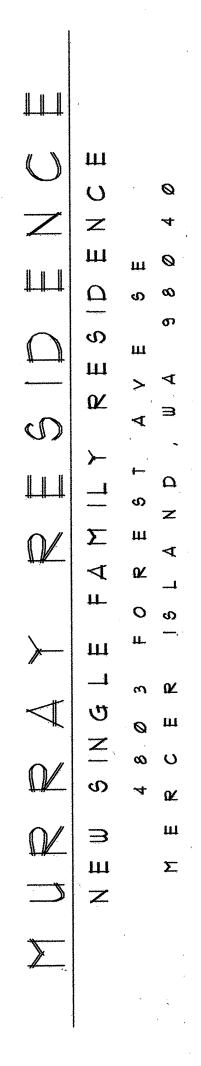


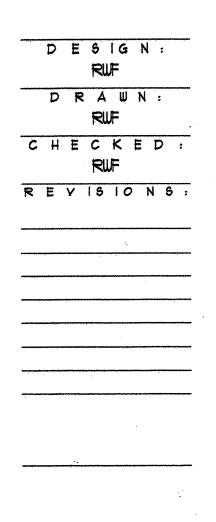
# BASEMENT - MECHANICAL



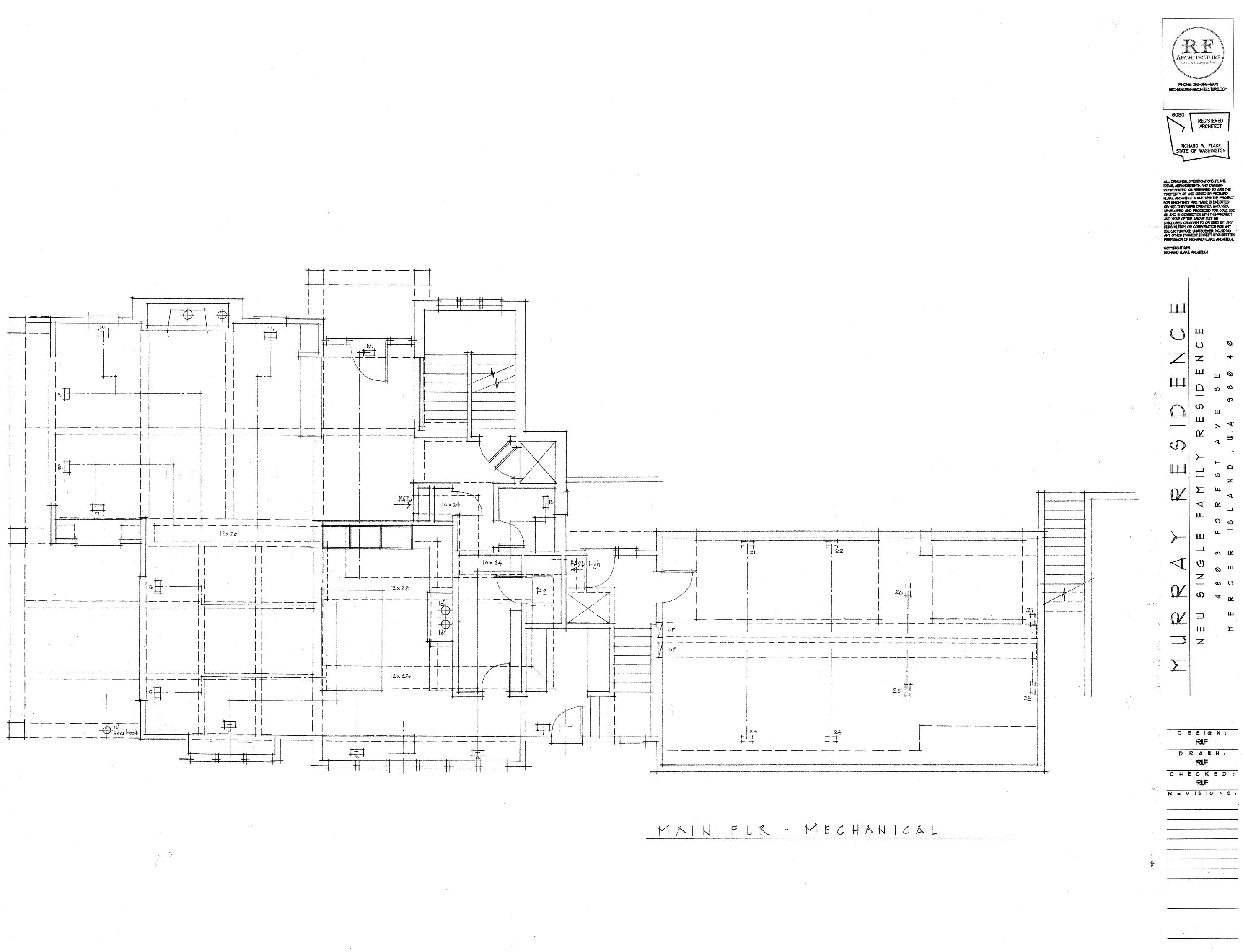
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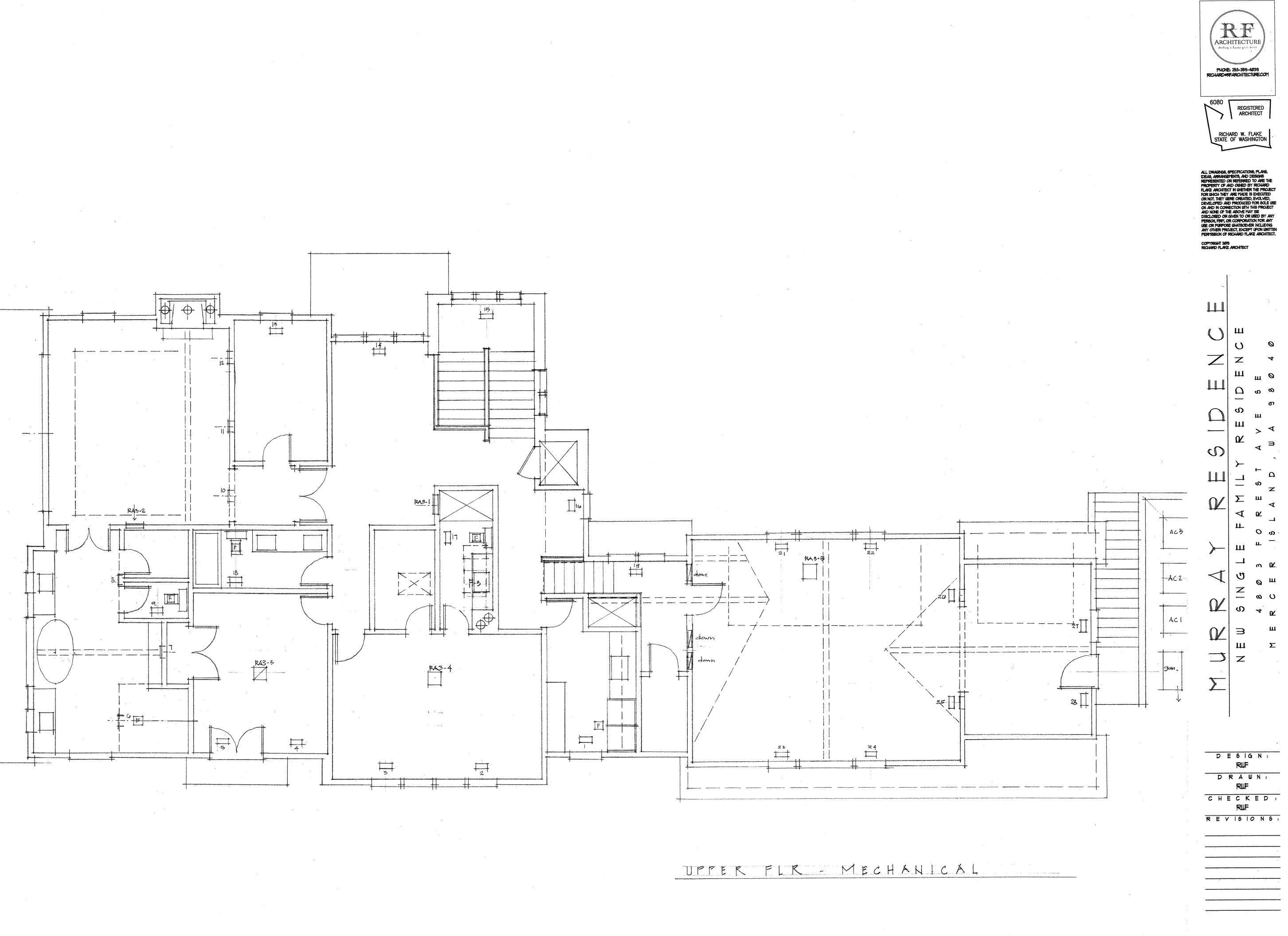




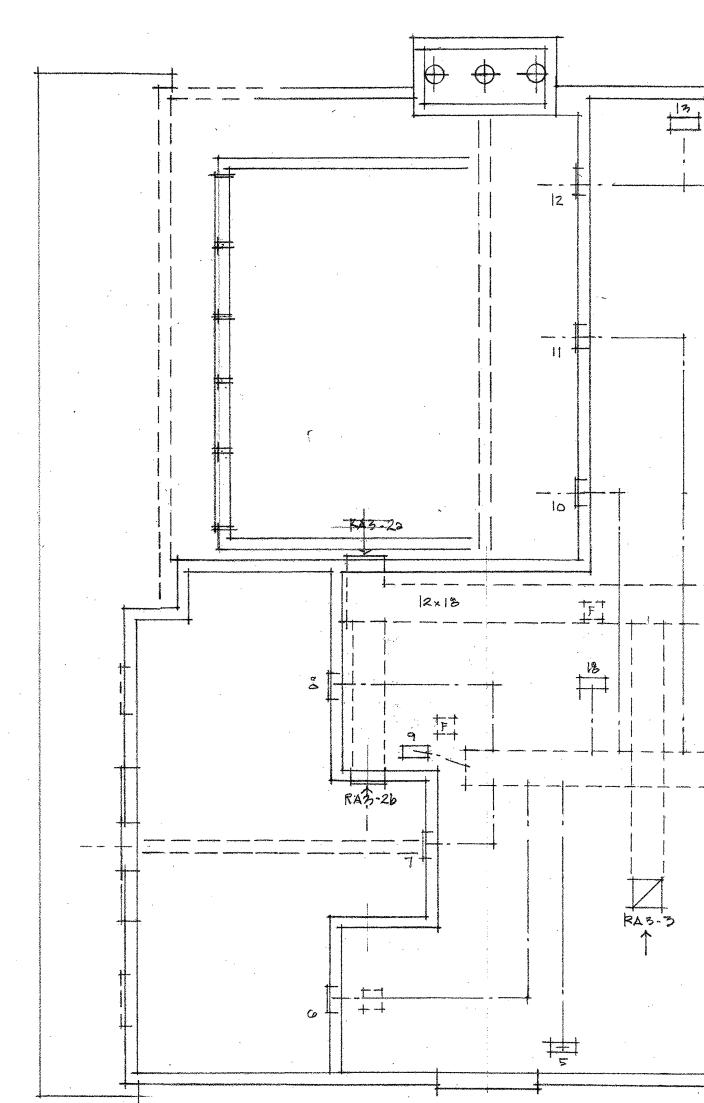


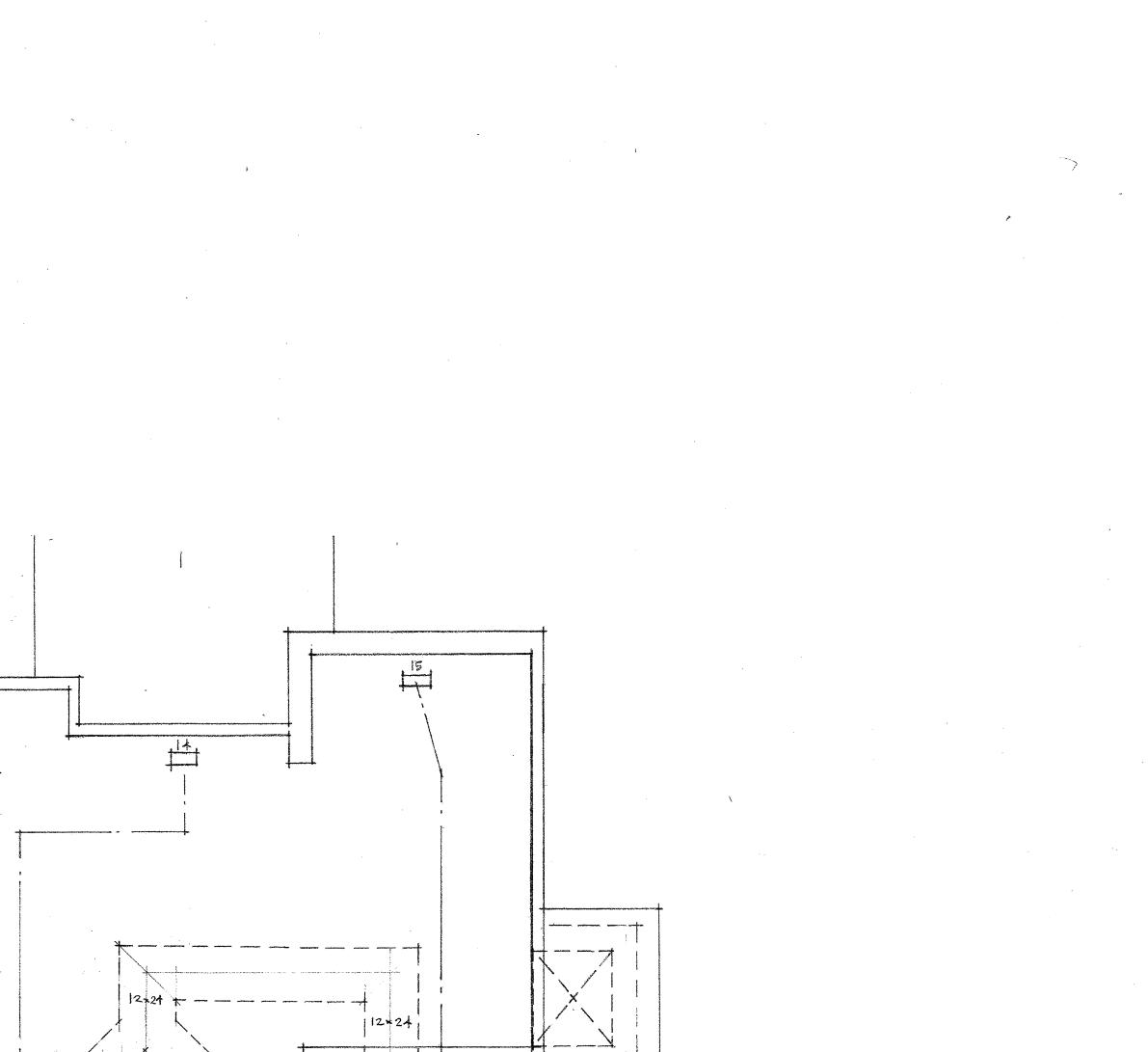


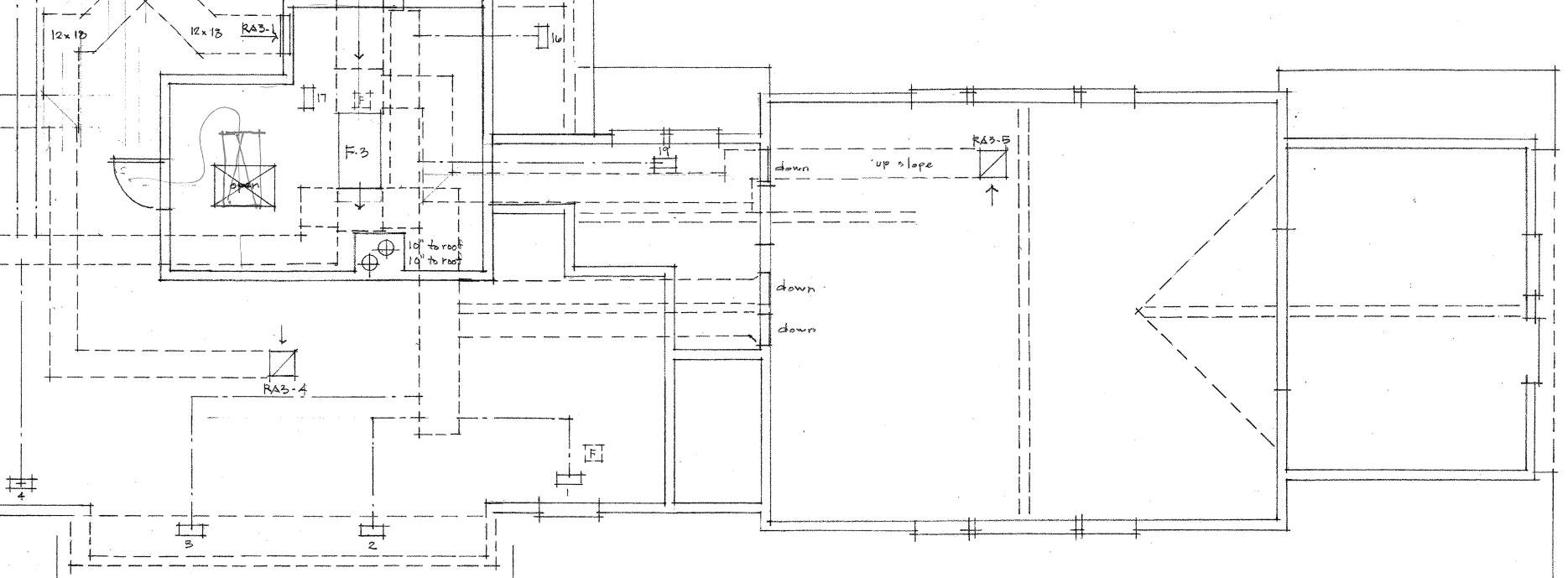




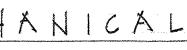








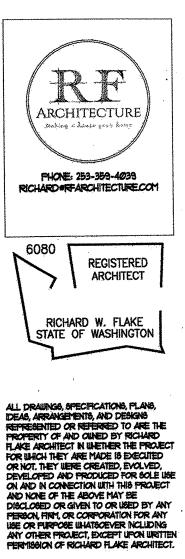
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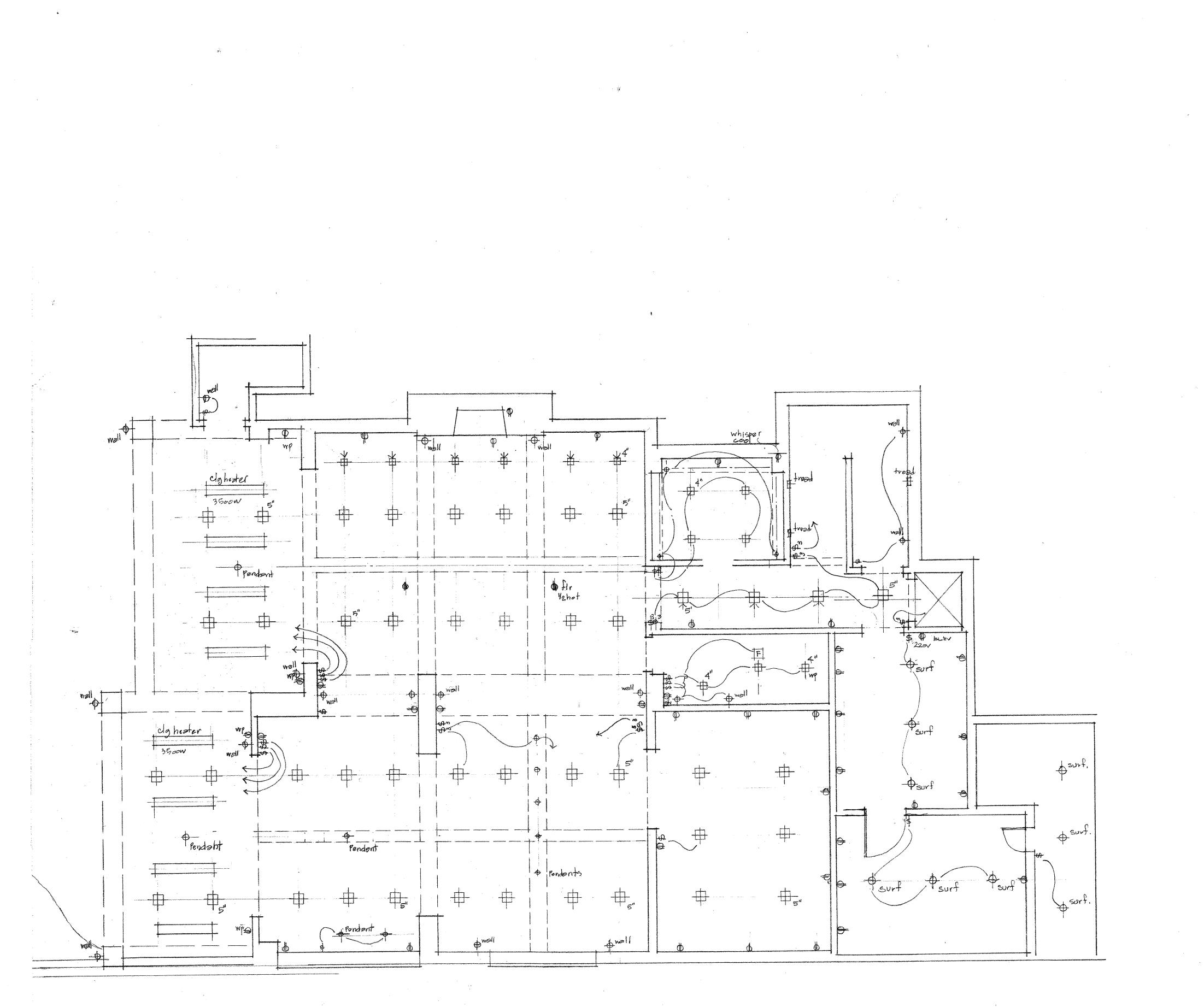
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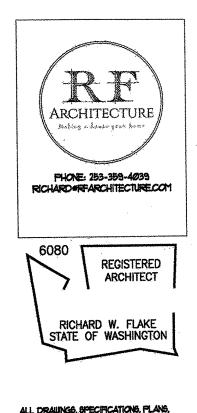
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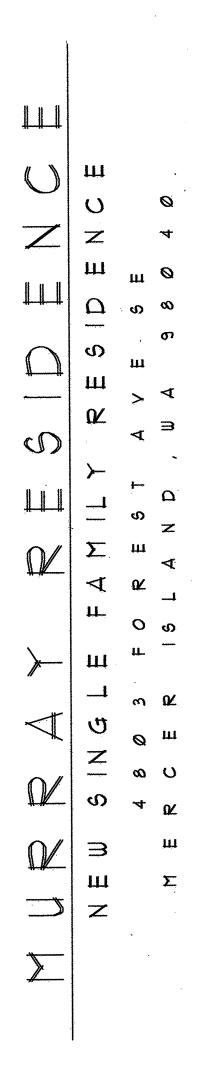
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# BASEMENT - LIGHTING 4 ELEC

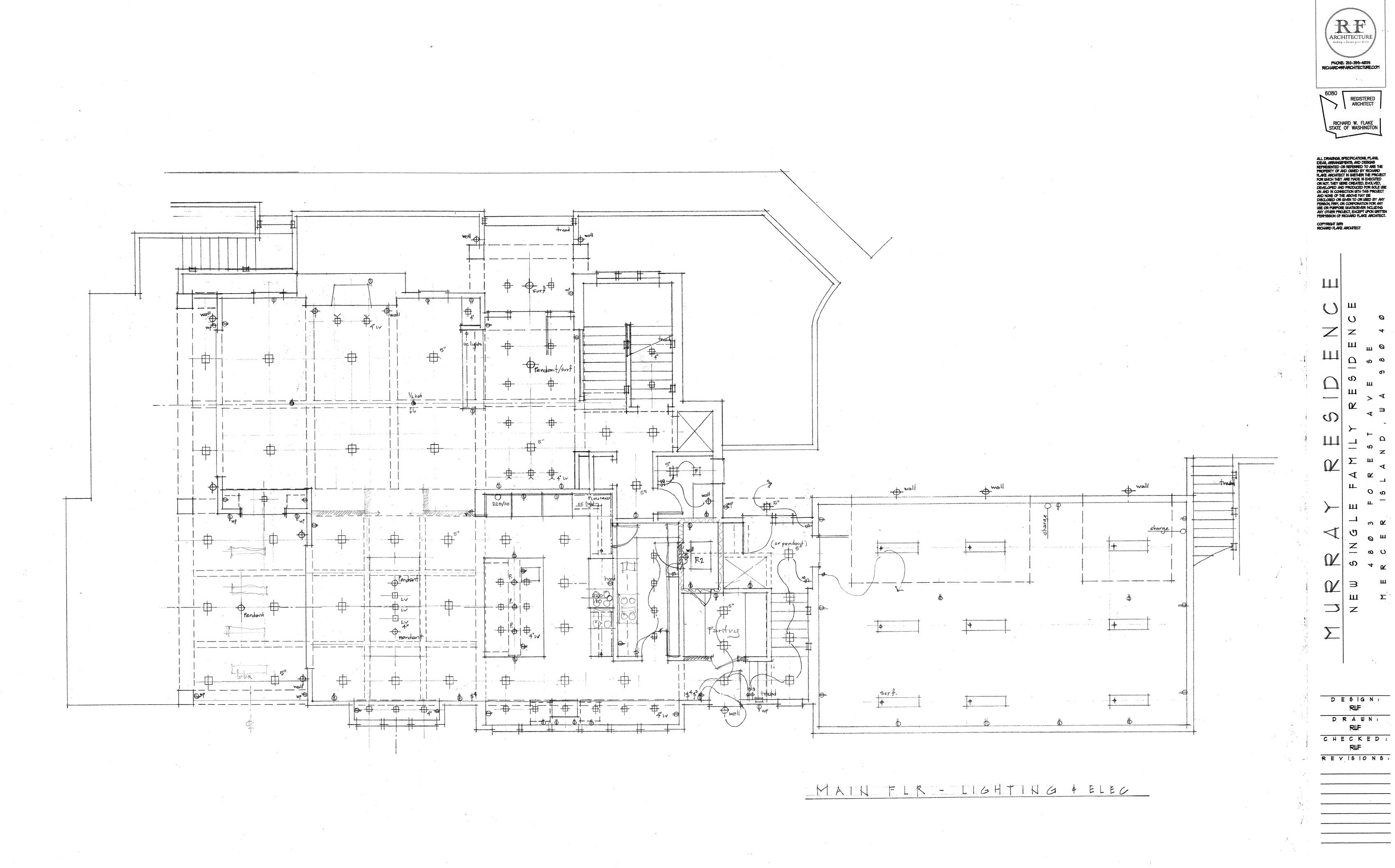


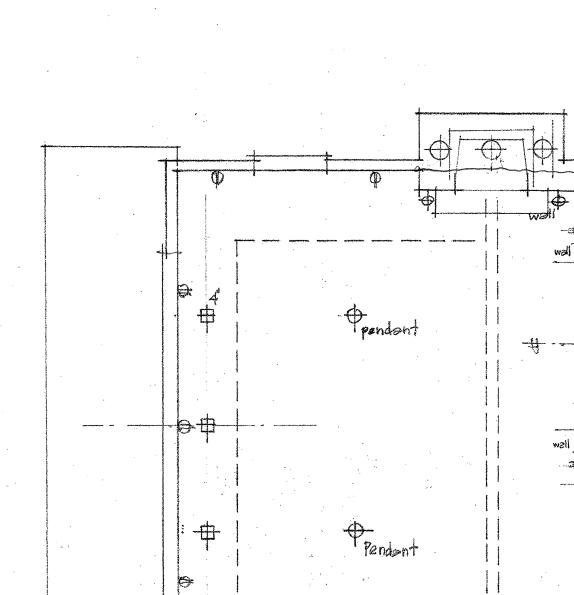
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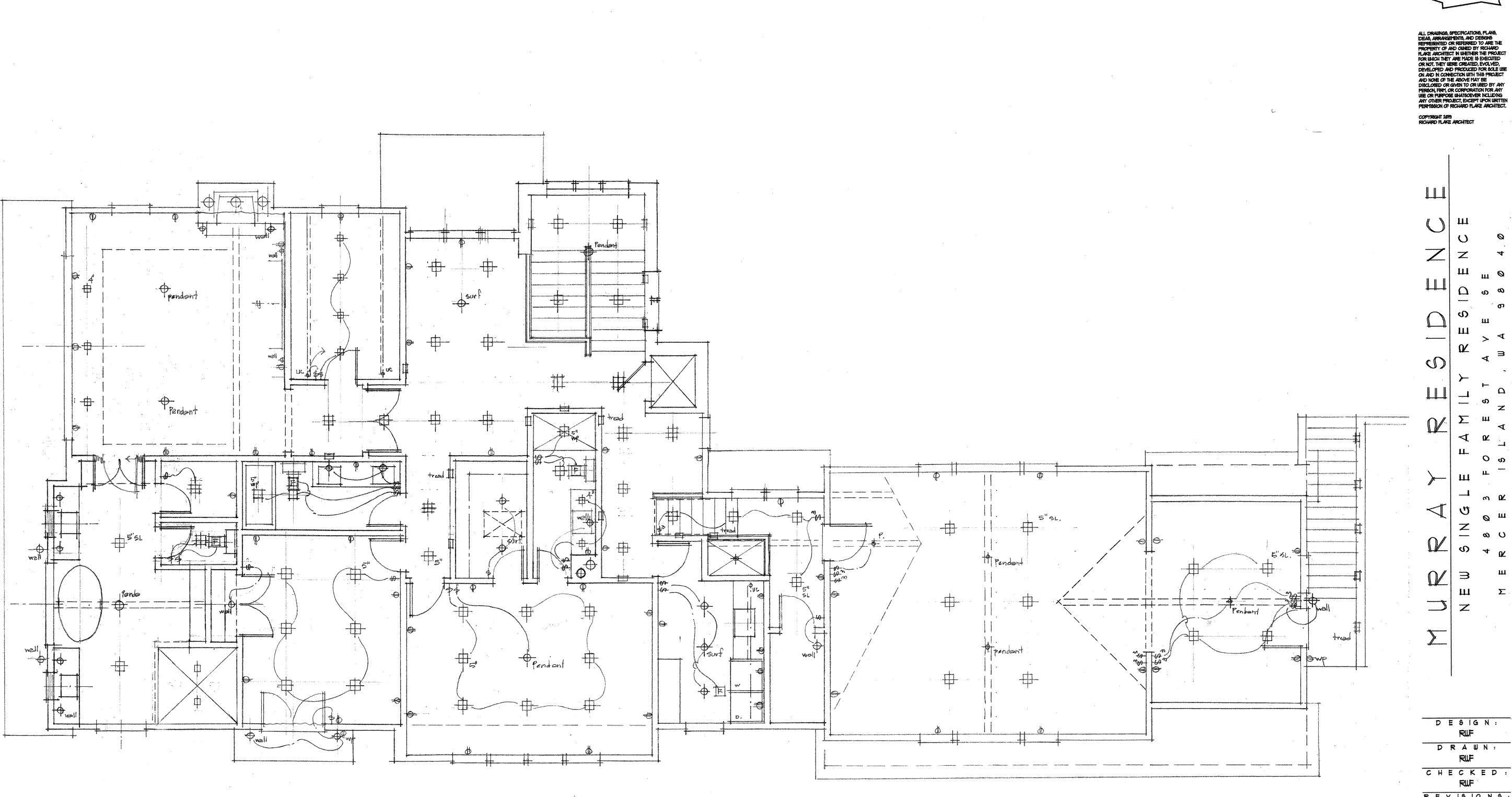
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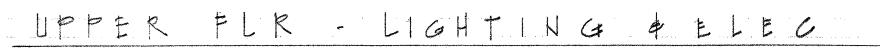


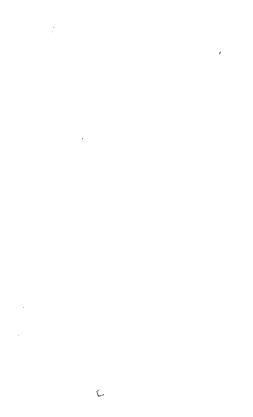
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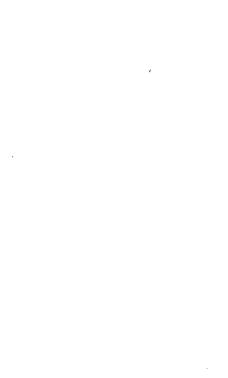












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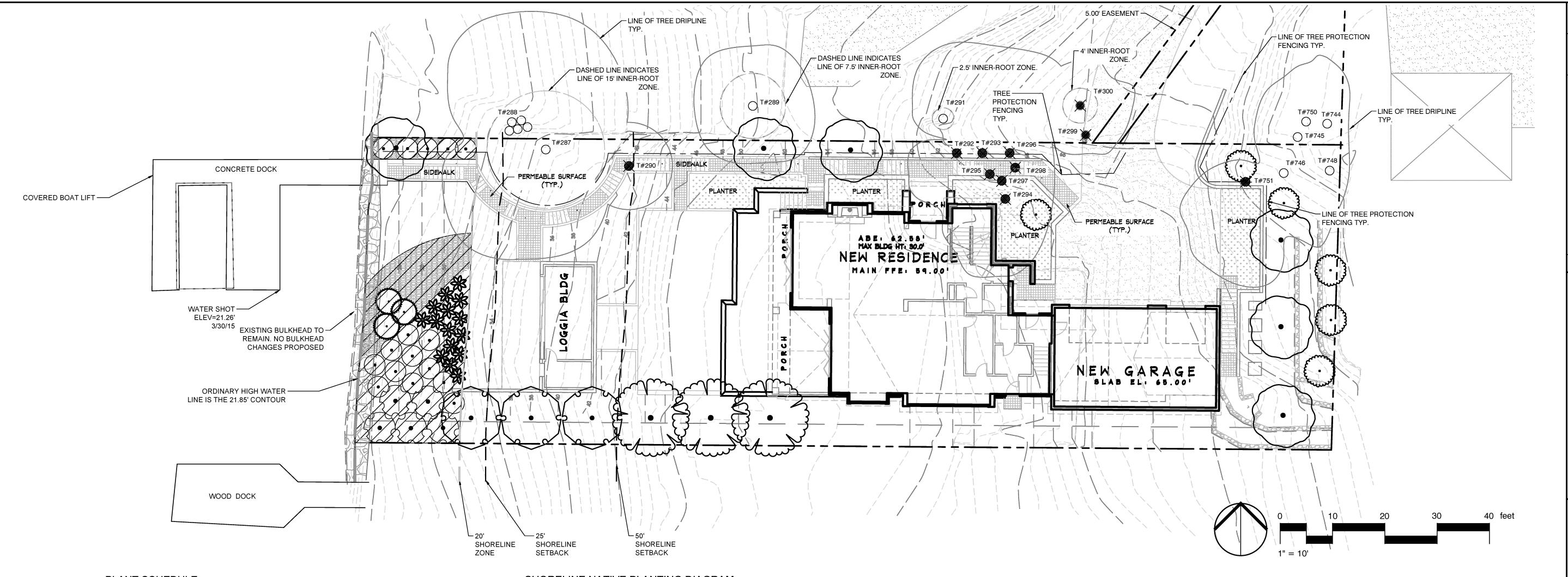
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CHECKED: RWF REVISIONS:



| PLANT SCHEDULE |
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| PLANT :     | SCHEDULE                          |            |  |               |          | SHORELINE                                      |
|-------------|-----------------------------------|------------|--|---------------|----------|--|
| TREES       | CODE                              | <u>QTY</u> | BOTANICAL / COMMON NAM                       | E <u>CAL</u>  |          |  |
| $(\cdot)$   | AC                                | 6          | ACER CIRCINATUM<br>VINE MAPLE                | 1.5" CAL.     |          |  |
|             | SM                                | 3          | CORNUS KOUSA<br>WHITE KOUSA DOGWOOD          | 2.5" CAL.     |          |  |
|             | PE                                | 3          | PRUNUS EMARGINATA<br>BITTER CHERRY           | 1.5" CAL.     |          |  |
| (·)         | RP                                | 6          | RHAMNUS PURSHIANA<br>CASCARA                 | 1.5" CAL.     |          |  |
| SHRUBS      | CODE                              | <u>QTY</u> | BOTANICAL / COMMON NAM                       | <u>e size</u> |          | CITY OF  |
| $(\bullet)$ | CR                                | 16         | CORNUS SERICEA<br>RED TWIG DOGWOOD           | 2 GAL         |          | Developmen<br>(Polygonum<br>weeds identi       |
|             | HD                                | 5          | HOLODISCUS DISCOLOR<br>OCEAN-SPRAY           | 5 GAL         |          | areasestabli<br>new single-fa<br>Weed list, as |
| 發           | РМ                                | 15         | POLYSTICHUM MUNITUM<br>WESTERN SWORD FERN    | 1 GAL         |          | increased slo                                  |
| $\cap$      |                                   |            |  |               |          | TREE R   |
| <u>O</u>    | SA                                | 3          | SYMPHORICARPOS ALBUS<br>COMMON WHITE SNOWBER | 2 GAL<br>RY   |          | REGUI<br>OF ME<br>TREE                         |
|             | OVERS <u>CODE</u>                 | <u>QTY</u> | BOTANICAL / COMMON NAM                       | E <u>CONT</u> | SPACING  | Excerp   |
|             | AU                                | 99         | ARCTOSTAPHYLOS UVA-UR<br>KINNIKINNICK        | SI 4"POT      | 18" o.c. | B. 1   |
| LAND        | SCAPE NO                          | DTES       | S:   |               |          | 1. 1   |
|             | DER OF SITE V<br>CC 19.02.020.F.( |            | ELANDSCAPED                                  |               |          | a. (   |
|             | RIPLINES MUST                     |            | ROTECTED                                     |               |          | b. (   |
|             |                                   |            |  |               |          | 9  |
| Ŵ           |                                   |            | ED - SEE ARBORIST REPORT<br>DARY & SURVEY    | Γ&            |          | <i>C</i> . (                                   |
| $\bigcirc$  | TREES TO REI                      | MAIN       |  |               |          | d. (   |

### SHORELINE NATIVE PLANTING DIAGRAM

TOTAL SHORELINE AREA\*

75% REQUIRED NATIVE PLANTING AREA

\*SHORELINE AREA DEFINED AS AREA BETWEEN ORDINARY HIGH WATER MARK (OHWM) AND 20' SETBACK FROM OHWM

1091.05 SF

818.29 SF

## OF MERCER ISLAND WEED REMOVAL NOTE:

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

## **REPLACEMENT NOTE:**

ULATED TREES TO BE REMOVED WILL BE REPLACED PER CITY REQUIREMENTS. SEE CITY MERCER ISLAND TREE INVENTORY AND REPLACEMENT SUBMITTAL FORM FOR COMPLETE E REPLACEMENT CALCULATIONS.

erpt from MICC 19.10.070(B)(1):

Replacement Trees.

Location. Replacement trees shall be located in the following order of priority from most important to least important:

On-site replacement adjacent to or within critical tree areas as defined in Chapter 19.16 MICC;

On-site replacement outside of critical tree areas adjacent to other retained trees making up a grove or stand of trees;

On-site replacement outside of critical tree areas; and

Off-site in adjacent public right-of-way where explicitly authorized by the city.

| Name: Mu<br>project 480<br>Ave SE | •                                      |            |                       |           |   | iigleyName: Murra<br>303 Forest Ave SE | ay proj | iect ISA ( | certified arb  |
|-----------------------------------|--|------------|-----------------------|-----------|---|--|---------|------------|----------------|
|                                   | Species                                | DBH"       | Drpln rad'            | Cndtn     | Remarks   | Designation                            | Rm      | RTN        | Mitigation     |
|                                   | On-site Trees                          |            |                       |           |   |  |         |            |                |
| 287                               | Acer macrophyllum, Big<br>leaf maple   | 34"        | 24' south             | Good      | Tree root collar is located 4-5' below existing/proposed grade                            | Exceptional                            |         | x          |                |
| 290                               | Calocedrus decurrens.<br>Incense cedar | 16"        | 10' radius            | Excellent | To be removed   | Large                                  | x       |            | 2              |
| 292                               | Acer macrophyllum, Big<br>leaf maple   | 11"        | 12' south             | Fair      | Located 5' from BLM stump with Kretzmaria fungii. Leans 5% south.                         | Large                                  | x       |            | 2              |
| 293                               | Acer macrophyllum, Big<br>leaf maple   | 7"         | 5' south, 0'<br>north | Good      | 4", 2", 5" equlas 6.7" DBH. Shared canopy. Leans 5% south                                 | Non-reg                                |         |            | Non-reg        |
| 294                               | Acer macrophyllum, Big<br>leaf maple   | 13"        | 18' south             | Fair      | Tree leans south so canopy is unusually heavy to the south.                               | Large                                  | x       |            | 2              |
| 295                               | Acer macrophyllum, Big<br>leaf maple   | 17"        | 0' south              | Good      | Shared canopy with other more dominant trees.   | Large                                  | x       |            | 2              |
| 296                               | Acer macrophyllum, Big<br>leaf maple   | 15"        | 8' south              | Fair      | Dead stem and limbs, low vigor  | Large                                  | x       |            | 2              |
| 297                               | Acer macrophyllum, Big<br>leaf maple   | 9"         | 18' south             | Good      | To be removed   | Non-reg                                |         |            | Non-reg        |
| 298                               | Acer macrophyllum, Big<br>leaf maple   | 12.5"      | 18' south             | Good      | no canopy coverage to the north, to be removed  | Large                                  | x       |            | 2              |
| 744                               | Acer macrophyllum, Big<br>leaf maple   | 19"        | 15'                   | Excellent | Out of proposed construction area, tree protection from nearby, off-<br>site construction | Large                                  |         | x          |                |
| 745                               | Thuja plicata, Western<br>red cedar    | 19", 11"   | 15' south             | Fair      | Out of proposed construction area.  | Large                                  |         | x          |                |
| 746                               | Acer macrophyllum, Big<br>leaf maple   | 36"+       | 18' SW                | Fair      | Decay column. Out of proposed construction area.  | Exceptional                            |         | x          |                |
| 748                               | Acer macrophyllum, Big<br>leaf maple   | 22"        | 0' north 20'<br>south | Fair      | Out of proposed construction area.  | Large                                  |         | x          |                |
| 750                               | Prunus, plum?                          | 7"         | 6'                    | Fair      | under canopy of nearby Tree 744   | Non-reg                                |         |            | Non-reg        |
| 751                               | Acer macrophyllum, Big<br>leaf maple   | 36"+       | ' south 15' w         | Fair      | Canopy slightly overhangs construction area below. Decay, deadwood                        | Exceptional                            | x       |            | 6              |
|                                   |  |            |                       |           | Total tree onsite = 15, 3 Non-regulated. 30% of 12 is 3.6 or 4 trees. 5 trees retained.   | Total Replant                          |         |            | 18             |
|                                   | Off-site Trees                         |            |                       |           |   |  |         |            |                |
| Name: Mu<br>project 480<br>Ave SE | •                                      | 1          |                       |           |   | iigleyName: Murra<br>303 Forest Ave SE | ay proj | iect ISA ( | certified arbo |
| 288                               | Acer macrophyllum, Big<br>leaf maple   | est 48" +  | 6' south              | Good      | Off-site tree with canopy dominated by Tree #287  | Exceptional                            |         | RTN<br>X   | Mitigation     |
| 289                               | Acer macrophyllum, Big<br>leaf maple   | est 30"    | 15' radius            | Good      | Off-site tree with hornet nest in ground at root collar.                                  | Exceptional                            |         | x          |                |
| 291                               | Acer macrophyllum, Big<br>leaf maple   | 2 x 18"    | 5' south              | Fair      | Was 3-stem, center stem cut at 10', deadwood, narrow.                                     | Exceptional                            |         | x          |                |
| 299                               | Acer macrophyllum, Big<br>leaf maple   | 21"        | 3' south              | Fair      | Off-site tree, large decay column, good response growth.                                  | Large                                  | x       |            |                |
| 300                               | Acer macrophyllum, Big<br>leaf maple   | 15", 20.5" | 8' south              | Fair      | Off-site, located just 8' from power pole with transformer.                               | Large                                  | x       | x          |                |

|         | SCJ S.           | LANDSCAPE A   |                  | 1148 NW LEARY WAY, SEATTLE, V<br>P: 206-708-1862<br>SCJSTUDIOLA.COM |
|---------|------------------|---------------|------------------|---|
|         | REPLACEMENT PLAN | PROJECT NAME: | Murray Residence | 4803 Forest Ave SE<br>Mercer Island, WA                             |
| DESIGN  | JM               |               |                  |   |
| APPRO\  |                  | :             |                  |   |
| DATE:   | JM<br>May, 10    | 2021          |                  |   |
| JOB No: | 3476.01          |               |                  |   |
| DRAWIN  | -                | No:           |                  |   |
|         | LA-1.0           |               |                  |   |
| SHEET   | No:<br>01        | OF            |                  | 01  |

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