


RUDOLF RESIDENCE

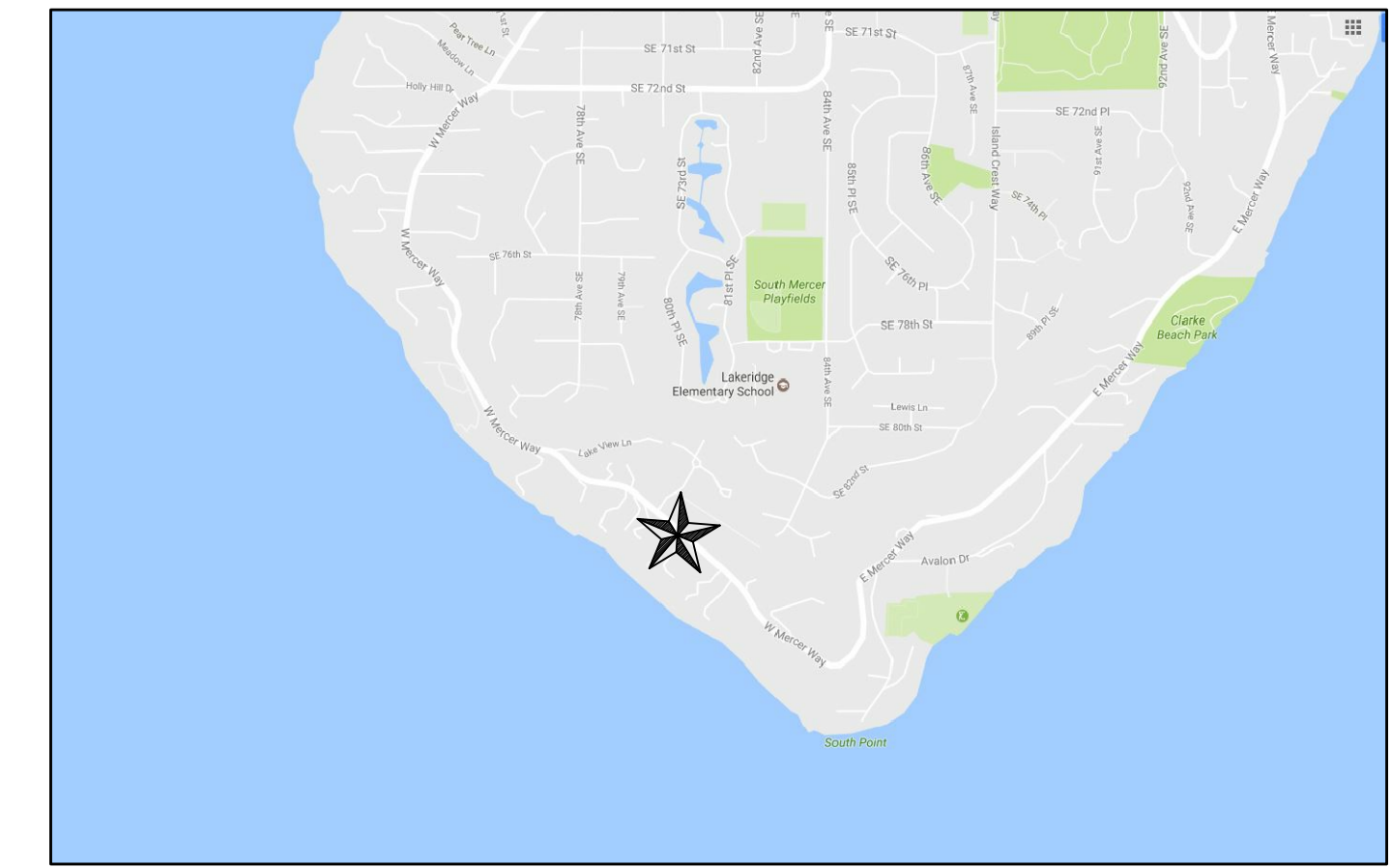

8253 W MERCER WAY MERCER ISLAND, WA 98040



CAUTION!
CALL BEFORE YOU DIG!

BURIED UTILITIES EXIST IN THE AREA AND UTILITY INFORMATION SHOWN MAY NOT BE COMPLETE. CONTACT THE ONE-CALL UTILITY LOCATE SERVICE A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION.

1-800-424-5555

ENGINEERING

250 4TH AVE. S., SUITE 200
EDMONDS, WASHINGTON 98020
PHONE (425) 778-8500
FAX (425) 778-5536

| OWNER | CONSULTANTS | | | | |
|---|--|--|--|---|--|
| JAMES RUDOLF 500 108TH AVE NE, SUITE 905 BELLEVUE, WA 98004 646.773.2018 | ARCHITECT TOWER HOMES 10303 14TH AVE NW SEATTLE, WA 98177 206.390.1800 CONTACT: TOM WEBB | CIVIL ENGINEER CG ENGINEERING 250 4TH AVE S, SUITE 200 EDMONDS, WA 98020 425.778.8500 FAX 778.5536 CONTACT: JARED UNDERBRINK | STRUCTURAL ENGINEER CG ENGINEERING 250 4TH AVE S, SUITE 200 EDMONDS, WA 98020 425.778.8500 FAX 778.5536 CONTACT: JOE GALUSHA | SOIL/GEOTECH ENGINEER GEOTECH CONSULTANTS, INC. 13256 NE 20TH ST, SUITE 16 BELLEVUE, WA 98005 425.747.5618 CONTACT: ROBERT WARD | SURVEYOR LANKTREE LAND SURVEYING, INC 421 "B" ST NE AUBURN, WA 98002 253.653.6423 |

GENERAL NOTES

- GENERAL NOTES**
- STANDARD SPECIFICATIONS:
 - ALL WORK TO BE PERFORMED AND MATERIALS TO BE USED SHALL BE IN ACCORDANCE WITH THE WSDOT/APWA 2016 STANDARD SPECIFICATIONS AND STANDARD PLANS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION, AS APPLICABLE AND AS MODIFIED BELOW, AND UNLESS OTHERWISE NOTED, SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE CITY OF MERCER ISLAND.
 - LOCAL AMENDMENTS TO THE STANDARD SPECIFICATIONS, CONSISTING OF STANDARD DRAWINGS AND SPECIAL TECHNICAL CONDITIONS ARE REFERENCED IN THESE NOTES. COPIES OF THESE DOCUMENTS ARE AVAILABLE AT THE OFFICE OF THE CITY ENGINEER, CITY OF MERCER ISLAND, 9611 SE 36TH STREET, MERCER ISLAND, WA 98040.
 - THESE SPECIFICATIONS SHALL BE APPLICABLE FOR, BUT NOT LIMITED TO, PUBLIC AND PRIVATE STREETS, DRIVEWAYS, PARKING LOTS, COMMERCIAL AND INDUSTRIAL DEVELOPMENTS, APARTMENTS, ETC. WORK IN PRIVATE DEVELOPMENTS SHALL CONFORM TO THE SAME STANDARDS OF WORKMANSHIP AND MATERIALS AS ARE SPECIFIED WITHIN THE CITY RIGHT-OF-WAY, EXCEPT AS INDICATED ON THE PLANS.
 - PERMITS: PRIOR TO CONSTRUCTION, AND IN ADDITION TO ANY OTHER PERMITS REQUIRED, A CITY OF MERCER ISLAND "STREET USE PERMIT" MUST BE OBTAINED FOR ANY AND ALL WORK WITHIN THE CITY RIGHT-OF-WAY.
 - PLANS: IT IS A REQUIREMENT OF THE CITY OF MERCER ISLAND ENGINEERING DEPARTMENT, THAT AN APPROVED SET OF CONSTRUCTION PLANS FOR ALL WORK BE KEPT ON THE CONSTRUCTION SITE AT ALL TIMES DURING THE CONSTRUCTION PERIOD.
 - INSPECTION: THE ENGINEERING DEPARTMENT CONSTRUCTION INSPECTOR 236-5300, OR 236-3587, (24-HR TAPED INSPECTION LINE) SHALL BE NOTIFIED 24-HOURS PRIOR TO STARTING ANY TYPE OF CONSTRUCTION INCLUDING CLEARING, SANITARY SEWERS, WATER MAINS, STORM DRAINS, CURB AND UTTERS, SIDEWALKS, DRIVEWAYS, STREET GRADING AND PAVING.

CONTROL OF MATERIAL

THE SOURCE OF SUPPLY AND A DETAILED LIST OF EACH LIST OF EACH OF THE MATERIALS FURNISHED BY THE CONTRACTOR SHALL BE SUBMITTED TO THE CITY FOR APPROVAL PRIOR TO DELIVER. ONLY MATERIALS CONFORMING TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPROVED BY THE CITY SHALL BE USED IN THE WORK. TESTING OF MATERIALS MAY INCLUDE TESTS OF ACTUAL SAMPLES, MANUFACTURER'S CERTIFICATIONS, APPROVAL OF CATALOGUE CUTS, OR FIELD ACCEPTANCE REPORTS. TESTING OF MATERIALS FOR INCORPORATION IN PRIVATE WORK SHALL BE PERFORMED AT OTHER THAN CITY EXPENSE.

- EROSION AND SEDIMENTATION CONTROL**
- THE IMPLEMENTATION OF THESE EROSION SEDIMENTATION CONTROL (ESC) PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADE OF THESE FACILITIES IS THE RESPONSIBILITY OF THE PERMIT HOLDER/CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED.
 - THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES IN THE MANNER AS TO INSURE THAT SEDIMENT-LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS, AND MUST BE COMPLETED PRIOR TO ALL OTHER CONSTRUCTION.
 - THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED (E.G. ADDITIONAL SUMPS, RELOCATION OF DITCHES AND SILT FENCES), AS NEEDED FOR UNEXPECTED STORM EVENTS. ADDITIONALLY MORE ESC FACILITIES MAY BE REQUIRED TO ENSURE COMPLETE SILTATION CONTROL. THEREFORE, DURING THE COURSE OF CONSTRUCTION IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY HIS ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES OVER AND ABOVE THE MINIMUM REQUIREMENTS AS MAY BE NEEDED.
 - THE ESC FACILITIES SHALL BE INSPECTED DAILY DURING NONRAINFALL PERIODS, EVERY HOUR (DAYLIGHT) DURING A RAINFALL EVENT AND AT THE END OF EVERY RAINFALL BY THE PERMIT HOLDER/CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING. IN ADDITION, TEMP. SILTATION PONDS AND ALL TEMP. SILTATION CONTROLS SHALL BE MAINTAINED IN A SATISFACTORY CONDITION UNTIL SUCH TIME THAT CLEARING AND OR CONSTRUCTION IS COMPLETED, PERMANENT DRAINAGE FACILITIES ARE OPERATIONAL, AND THE POTENTIAL FOR EROSION HAS PASSED.
 - ANY AREA STRIPPED OF VEGETATION, INCLUDING ROADWAY EMBANKMENTS WHERE NO FURTHER WORK IS ANTICIPATED FOR A PERIOD OF SEVEN (7) DAYS, SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC METHODS (E.G. SEEDING, MULCHING, NETTING, EROSION BLANKETS, ETC.).
 - ANY AREAS NEEDING ESC MEASURE, NOT REQUIRING IMMEDIATE ATTENTION, SHALL BE
 - THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 48 HOURS FOLLOWING A STORM EVENT.
 - AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER DOWNSTREAM SYSTEM.
 - STABILIZED CONSTRUCTION ENTRANCES AND WASH PADS SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL REQUIREMENTS SHALL BE ENFORCED BY THE INSPECTOR TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN OF SILT FROM CONSTRUCTION VEHICLES.
 - WHERE SEEDING FOR TEMPORARY EROSION CONTROL IS REQUIRED, FAST GERMINATING GRASSES SHALL BE APPLIED AT AN APPROPRIATE RATE. (E.G. ANNUAL OR PERENNIAL RYE APPLIED AT APPROXIMATELY 80 POUNDS PER ACRE)

LEGAL DESCRIPTION

(PER FIDELITY NATIONAL TITLE INSURANCE COMPANY SUBDIVISION GUARANTEE NO. 611086191, DATED SEPTEMBER 10, 2014 AT 12:00AM)

FOR AUDITOR'S PARCEL NUMBER: 335850 0490

THAT PORTION OF TRACT 572, C. D. HILLMAN'S SEA SHORE - LAKE FRONT GARDEN OF EDEN ADDITION TO THE CITY OF SEATTLE, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 12 OF PLATS, PAGE(S) 44, IN KING COUNTY, WASHINGTON, DESCRIBED AS FOLLOWS:

BASIS OF ELEVATION

VERTICAL DATUM FOR THIS SURVEY IS NAVD88 PER CITY OF MERCER ISLAND. CITY OF MERCER ISLAND CONTROL POINT NO. 4332 WAS HELD FOR ELEVATION, BEING 140.594'

PARCEL NUMBER

3358500490

VICINITY MAP

NTS ★ = PROJECT SITE

BEGINNING AT AN IRON POST LOCATED AT THE MOST NORTHERLY CORNER OF TRACT 572, SAID IRON POST BEING LOCATED SOUTH 41°40' WEST A DISTANCE OF 37.00 FEET FROM AN INTERSECTION WITH THE CENTERLINE TANGENT PRODUCED OF WEST MERCER WAY, SAID TANGENT HAVING A BEARING OF 50° EAST, AND SAID POST BEING THE INTERSECTION OF THE NORTHWESTERLY MARGIN OF TRACT 572 AND THE SOUTHWESTERLY MARGIN OF COUNTY ROAD (WEST MERCER WAY) RECORDED UNDER RECORDING NUMBER 928842, IN KING COUNTY, WASHINGTON, AND THE TRUE POINT OF BEGINNING;
THENCE SOUTH 41°40' WEST A DISTANCE OF 230.33 FEET;
THENCE SOUTH 46°44'44" EAST A DISTANCE OF 100.12 FEET;
THENCE NORTH 41°38'48" EAST A DISTANCE OF 230.33 FEET TO THE SOUTHERLY MARGIN OF WEST MERCER WAY;
THENCE NORTH 46°44'44" WEST A DISTANCE OF 100.00 FEET TO THE POINT OF BEGINNING.

SITUATE IN THE COUNTY OF KING, STATE OF WASHINGTON.

| SHEET INDEX | |
|-------------|--------------------------------|
| CIVIL | |
| C1.1 | COVER SHEET & GENERAL NOTES |
| C2.1 | TEMPORARY EROSION CONTROL PLAN |
| C3.1 | GRADING & DRAINAGE PLAN |
| C3.2 | TREE PLAN |
| C4.1 | WATER & SEWER PLAN |

| SURVEY | |
|--------|--------|
| 1 | SURVEY |
| 2 | SURVEY |

| SITE WALLS | |
|------------|---------------------|
| SW1.1 | STRUCTURAL NOTES |
| SW1.2 | SITE WALL KEY PLAN |
| SW2.1 | SITE WALL PLAN |
| SW3.1 | SITE WALL PROFILES |
| SW4.1 | SITE WALL DETAILS |
| SW4.2 | SITE WALL DETAILS |
| G1.1 | GEOTECHNICAL DETAIL |

| ARCHITECTURE | |
|--------------|---|
| A-1 | SITE PLAN, ABE CALCULATIONS & PROJECT INFORMATION |
| A-2 | ENERGY SCHEDULE & CHARTS/ REQUIREMENTS |
| A-3 | GENERAL PROJECT NOTES |
| A-4 | BASEMENT PLAN |
| A-5 | MAIN FLOOR PLAN |
| A-6 | UPPER FLOOR PLAN |
| A-7 | ROOF PLAN |
| A-8 | EAST BUILDING ELEVATION |
| A-9 | NORTH BUILDING ELEVATION |
| A-10 | WEST BUILDING ELEVATIONS |
| A-11 | SOUTH BUILDING ELEVATION |
| A-12 | BUILDING SECTION A |
| A-13 | BUILDING SECTION B |
| A-14 | BUILDING SECTION C |
| A-15 | TYPICAL WALL SECTION & DETAILS |
| A-16 | STAIR SECTION & PARTIAL PLAN DETAILS |
| A-17 | EXTERIOR STAIR SECTION & DETAILS |
| A-18 | DETAILS |

| STRUCTURAL | |
|------------|--------------------------|
| S1.1 | STRUCTURAL NOTES |
| S1.2 | STRUCTURAL NOTES |
| S2.1 | FOUNDATION PLAN |
| S2.2 | MAIN FLOOR FRAMING PLAN |
| S2.3 | UPPER FLOOR FRAMING PLAN |
| S2.4 | ROOF FRAMING PLAN |
| S3.1 | SCHEDULES |
| S4.1 | FOUNDATION DETAILS |
| S4.2 | FOUNDATION DETAILS |
| S5.1 | WOOD FRAMING DETAILS |
| S5.2 | WOOD FRAMING DETAILS |
| S6.1 | ROOF FRAMING DETAILS |
| S7.1 | STEEL FRAMING DETAILS |
| S7.2 | STEEL FRAMING DETAILS |

| DESCRIPTION | | EXISTING | PROPOSED | ABBREVIATIONS | |
|------------------------|-------------------------|-------------------------|-------------------------|---------------|--------------------------------------|
| PROPERTY LINE | ===== | ===== | ===== | ABN | ABANDONED |
| ADJACENT PROPERTY LINE | ===== | ===== | ===== | BLDG | BUILDING |
| CENTERLINE | ===== | ===== | ===== | BOW | BOTTOM OF WALL |
| CLEARING LIMITS | ===== | ===== | ===== | CL | CENTERLINE |
| SILT FENCE | ----- X ----- X ----- | ----- X ----- X ----- | ----- X ----- X ----- | CB | CATCH BASIN |
| CONTOUR LINE | ----- 100 ----- | ----- 100 ----- | ----- 100 ----- | CMP | CORRUGATED METAL PIPE |
| FENCE | ----- □ ----- □ ----- | ----- □ ----- □ ----- | ----- □ ----- □ ----- | CO | CLEANOUT |
| SANITARY SEWER LINE | ----- SS ----- SS ----- | ----- SS ----- SS ----- | ----- SS ----- SS ----- | CONC | CONCRETE |
| MANHOLE | ----- (M) ----- | ----- (M) ----- | ----- (M) ----- | CONST | CONSTRUCTION |
| STORM DRAIN MAIN | ----- SD ----- SD ----- | ----- SD ----- SD ----- | ----- SD ----- SD ----- | CP | CONCRETE PIPE |
| STORM DRAIN PIPE | ----- SD ----- SD ----- | ----- SD ----- SD ----- | ----- SD ----- SD ----- | CU YD | CUBIC YARD |
| ROOF DRAIN | ----- R ----- R ----- | ----- R ----- R ----- | ----- R ----- R ----- | DDVA | DOUBLE DETECTOR CHECK VALVE ASSEMBLY |
| FOOTING DRAIN | ----- F ----- F ----- | ----- F ----- F ----- | ----- F ----- F ----- | DI | DUCTILE IRON PIPE |
| PRESSURE LINE | ----- P ----- P ----- | ----- P ----- P ----- | ----- P ----- P ----- | DIA | DIAMETER |
| CATCH BASIN (TYPE 1) | ----- □ ----- | ----- □ ----- | ----- □ ----- | DIP | DUCTILE IRON PIPE |
| CATCH BASIN (TYPE 2) | ----- □ ----- | ----- □ ----- | ----- □ ----- | EAP | EACH |
| CLEANOUT | ----- o ----- | ----- o ----- | ----- o ----- | EJ | EXPANSION JOINT |
| CLEANOUT AND WYE | ----- o ----- | ----- o ----- | ----- o ----- | ELEV | ELEVATION |
| GRADE BREAK | ----- ▽ ----- | ----- ▽ ----- | ----- ▽ ----- | EOP | EDGE OF PAVEMENT |
| SURFACE SWALE | ----- ▽ ----- | ----- ▽ ----- | ----- ▽ ----- | EX | EXISTING |
| DRAINAGE ARROW | ----- ▸ ----- | ----- ▸ ----- | ----- ▸ ----- | FDC | FIRE DEPT. CONNECTION |
| WATER LINE | ----- WA ----- WA ----- | ----- WA ----- WA ----- | ----- WA ----- WA ----- | FFE | FINISHED FLOOR ELEVATION |
| WATER METER | ----- [M] ----- | ----- [M] ----- | ----- [M] ----- | FH | FIRE HYDRANT |
| FIRE HYDRANT | ----- [H] ----- | ----- [H] ----- | ----- [H] ----- | FL | FLANGE |
| FDC | ----- [FDC] ----- | ----- [FDC] ----- | ----- [FDC] ----- | FT | FEET/FOOT |
| PIV | ----- (P) ----- | ----- (P) ----- | ----- (P) ----- | GV | GATE VALVE |
| GATE VALVE | ----- X ----- | ----- X ----- | ----- X ----- | HP | HIGH POINT |
| TEE | ----- T ----- | ----- T ----- | ----- T ----- | HT | HEIGHT |
| 90° BEND | ----- [90] ----- | ----- [90] ----- | ----- [90] ----- | ID | INSIDE DIAMETER |
| THRUST BLOCKING | ----- [TB] ----- | ----- [TB] ----- | ----- [TB] ----- | IE | INVERT ELEVATION |
| CAP | ----- [C] ----- | ----- [C] ----- | ----- [C] ----- | L | LENGTH/LINE |
| CONCRETE PAVEMENT | ----- [C] ----- | ----- [C] ----- | ----- [C] ----- | LCPE | LINED CORRUGATED POLYETHYLENE PIPE |
| ASPHALT PAVEMENT | ----- [A] ----- | ----- [A] ----- | ----- [A] ----- | LF | LINEAL FOOT |
| CRUSHED SURFACING | ----- [CS] ----- | ----- [CS] ----- | ----- [CS] ----- | LP | LOW POINT |
| ROCKERY | ----- [R] ----- | ----- [R] ----- | ----- [R] ----- | L | LEFT |
| SPOT ELEVATION | ----- 20.0 ----- | ----- 20.0 ----- | ----- 20.0 ----- | MAX | MAXIMUM |
| TELEPHONE LINE | ----- T ----- T ----- | ----- T ----- T ----- | ----- T ----- T ----- | MECH | MECHANICAL |
| POWER LINE | ----- E ----- E ----- | ----- E ----- E ----- | ----- E ----- E ----- | MH | MANHOLE |
| GAS LINE | ----- G ----- G ----- | ----- G ----- G ----- | ----- G ----- G ----- | | |
| SIGN | ----- [S] ----- | ----- [S] ----- | ----- [S] ----- | | |

| LANDSCAPE | |
|-----------|-------------------------------------|
| L1.1 | PLANTING PLAN & DETAILS |
| L2.1 | PLANTING SPECIFICATIONS & STANDARDS |
| L2.2 | IRRIGATION SPECIFICATIONS |



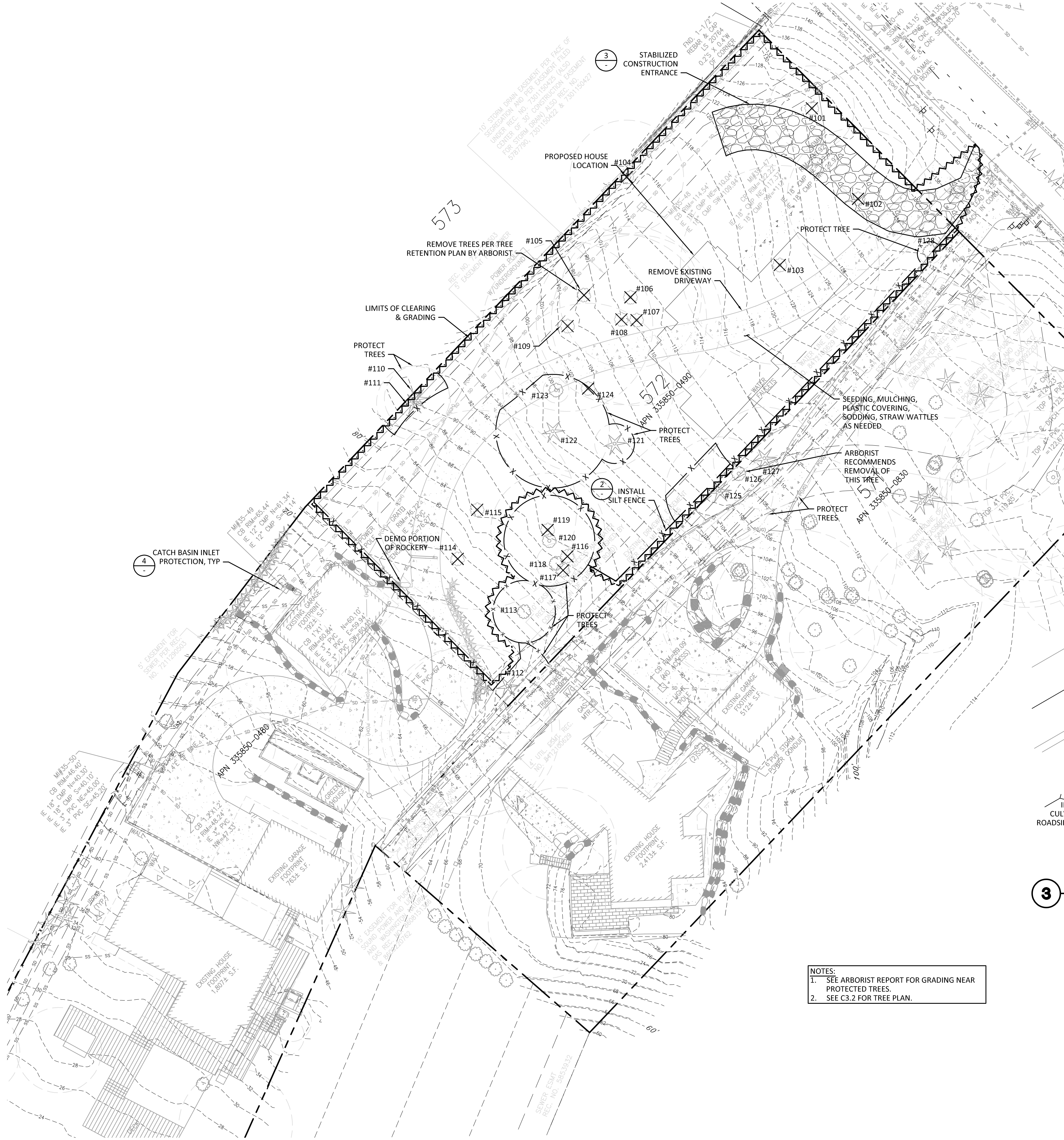
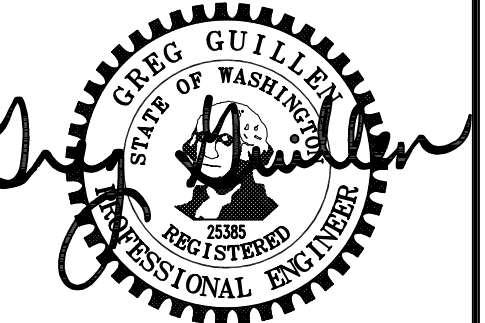
| MARK | DATE | DESCRIPTION |
|------|----------|--------------------|
| | 04/05/17 | PERMIT SUBMITTAL |
| | 03/07/18 | PERMIT RESUBMITTAL |
| | 05/11/18 | PERMIT SUBMITTAL |
| | 06/08/18 | PERMIT RESUBMITTAL |
| | 01/18/19 | PERMIT SUBMITTAL |
| | 05/07/19 | PERMIT RESUBMITTAL |

DESIGN: VD
DRAWN: ZOS
CHECK: JPU
JOB NO: 15227.20
DATE: 04/05/17

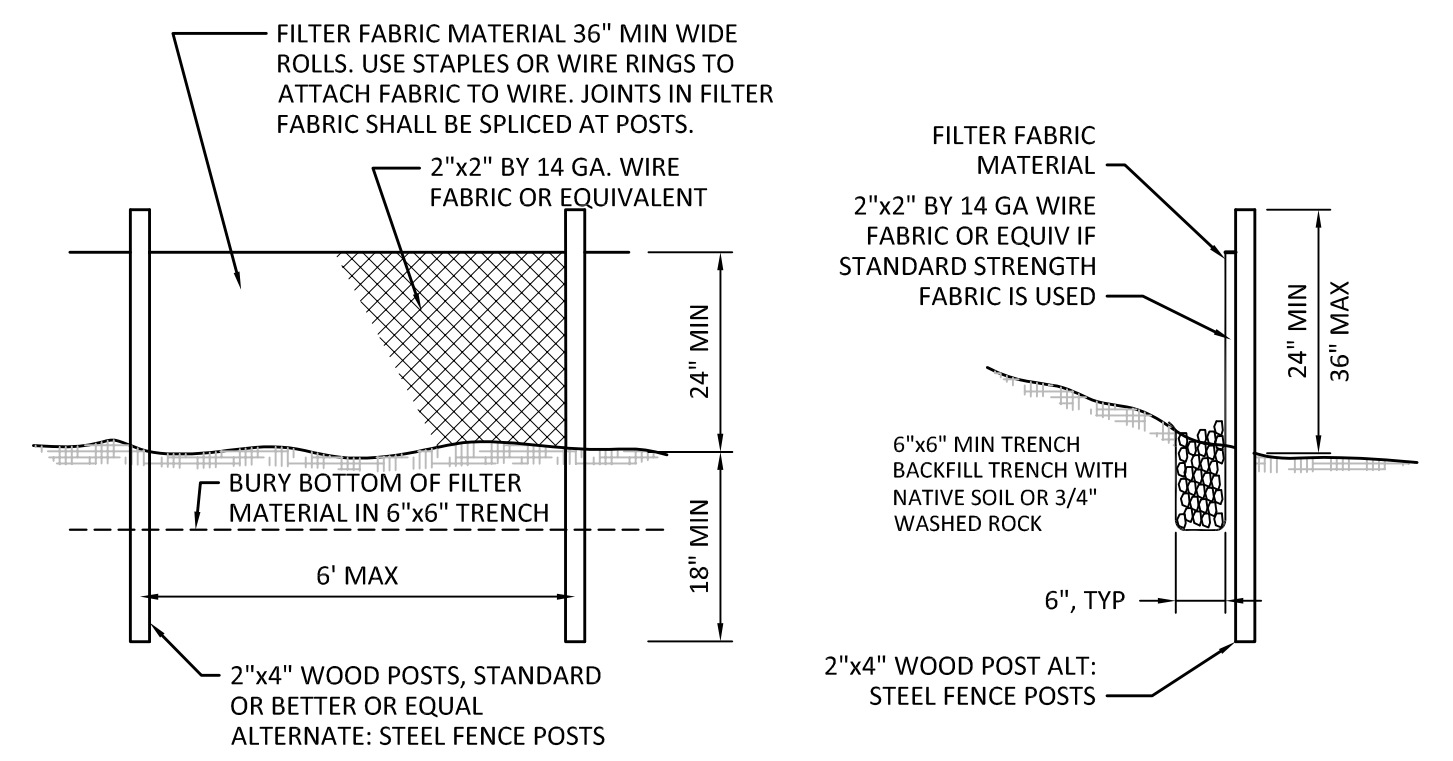
RUDOLF RESIDENCE
 8253 W MERCER WAY
 MERCER ISLAND, WA 98040
 COVER SHEET AND
 GENERAL NOTES

SHEET:

C1.1



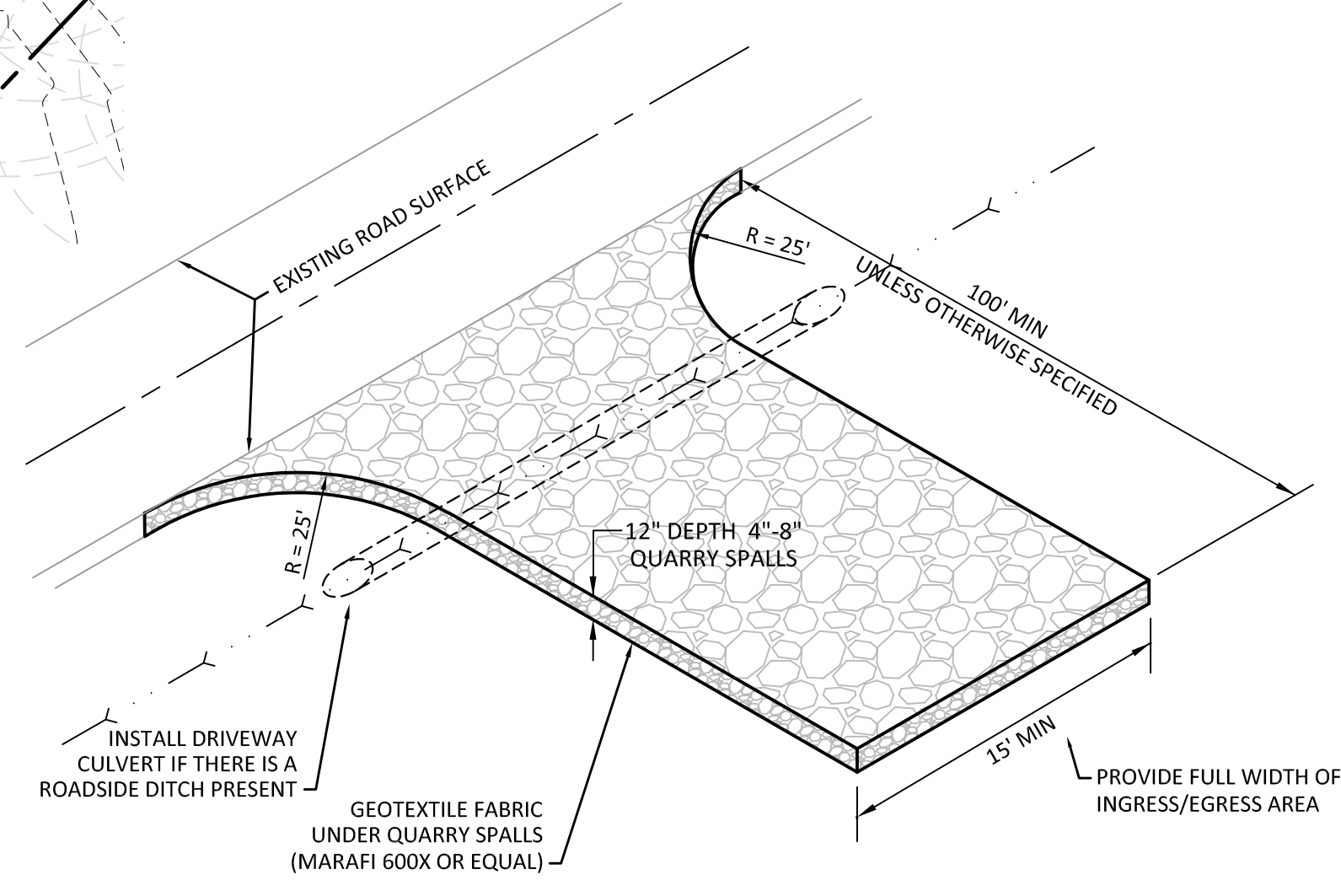
NOTES:
 1. SEE ARBORIST REPORT FOR GRADING NEAR PROTECTED TREES.
 2. SEE C3.2 FOR TREE PLAN.



SILT 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 SPICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6 INCH OVERLAP, AND BOTH ENDS SECURELY FASTENED TO THE POST.
2. THE SILT FENCE SHALL BE INSTALLED TO FOLLOW THE CONTOURS (WHERE FEASIBLE). THE FENCE POSTS SHALL BE SPACED A MAXIMUM OF 6 FEET APART AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 18 INCHES).
3. A SHALLOW TRENCH SHALL BE EXCAVATED, ROUGHLY 6 INCHES WIDE AND 6 INCHES DEEP, UPSLOPE AND ADJACENT TO THE WOOD POSTS TO ALLOW THE LOWER EDGE OF THE FILTER FABRIC TO BE SECURED WITH GRAVEL.
4. WHEN FILTER FABRIC NOT AS STRONG AS MIRAFI 700X 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, THE WIRES OR HOG RINGS. THE WIRE MESH SHALL EXTEND INTO THE SHALLOW TRENCH A MINIMUM OF 4 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
5. THE MIRAFI 700X FILTER FABRIC SHALL BE STAPLED TO THE FENCE, AND AT LEAST 18 INCHES OF THE FABRIC SHALL BE BURIED IN THE SHALLOW TRENCH. THE FILTER FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE AND SHALL NOT BE STAPLED TO TREES.
6. WHEN EXTRA-STRENGTH FILTER FABRIC (MIRAFI 700X OR EQUAL) AND FOUR (4) POST SPACING IS 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 NOTE 5 APPLYING.
7. THE TRENCH SHALL BE BACKFILLED WITH NATIVE SOIL OR 3/4" - 1.5" WASHED ROCK.
8. FILTER FABRIC FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED. THE NEWLY DISTURBED AREAS RESULTING FROM SILT FENCE REMOVAL SHALL BE IMMEDIATELY SEED AND MULCHED, OR OTHERWISE PERMANENTLY STABILIZED TO THE SATISFACTION OF THE CIVIL INSPECTOR.
9. SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
10. MAINTENANCE: ANY DAMAGED OR CLOGGED FENCE SHALL BE REPAIRED/REPLACED IMMEDIATELY. SEDIMENT MUST BE REMOVED WHEN THE SEDIMENT DEPTH IS 6 INCHES OR GREATER. IF CONCENTRATED FLOWS ARE EVIDENT UPHILL OF THE FENCE, THEY MUST BE INTERCEPTED AND CONVEYED TO A SEDIMENT TRAP OR POND.

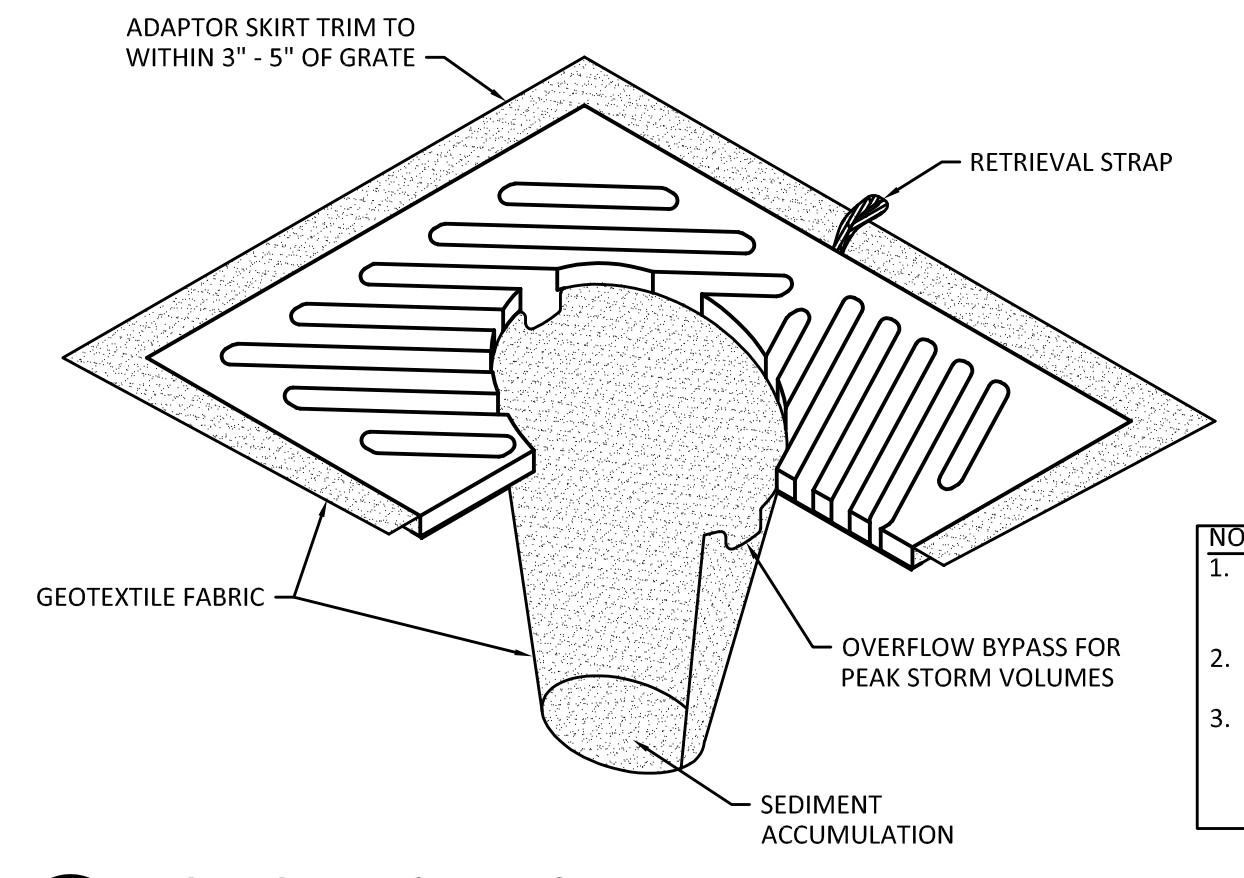
2 SILT FENCE
 SCALE: 1/2" = 1'-0"



STABILIZED CONSTRUCTION ENTRANCE NOTES:

1. INSTALLATION: THE AREA OF THE ENTRANCE SHOULD BE CLEARED OF ALL VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL. THE QUARRY SPALLS SHALL BE PLACED TO THE SPECIFIED DIMENSIONS. ANY DRAINAGE FACILITIES REQUIRED BECAUSE OF WASHING SHOULD BE CONSTRUCTED ACCORDING TO SPECIFICATIONS IN THE PLAN. IF WASH RACKS ARE USED, THEY SHOULD BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
2. AGGREGATE: 4" TO 8" QUARRY SPALLS PER WSDOT STD. SPECS. SEC. 9-13.6(A).
3. ENTRANCE DIMENSIONS: THE AGGREGATE LAYER MUST BE AT LEAST 12" THICK. IT MUST EXTEND THE FULL WIDTH OF THE VEHICULAR INGRESS AND EGRESS AREA. THE LENGTH OF THE ENTRANCE MUST BE AT LEAST 100 FEET (UNLESS OTHERWISE APPROVE BY CIVIL INSPECTOR).
4. WASHING: IF CONDITIONS ON THE SITE ARE SUCH THAT MOST OF THE MUD IS NOT REMOVED FROM VEHICLE TIRES BY CONTACT WITH THE ROCK ENTRANCE, THEN THE TIRES MUST BE WASHED BEFORE VEHICLES ENTER A PUBLIC ROAD. WASH WATER MUST BE CARRIED AWAY FROM THE ENTRANCE TO A SETTLING AREA TO REMOVE SEDIMENT. A WASH RACK MAY ALSO BE USED TO MAKE WASHING MORE CONVENIENT AND EFFECTIVE.
5. MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 2" STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN OUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAY OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY BY SWEEPING. THE PAVEMENT SHALL NOT BE CLEANED BY WASHING DOWN THE STREET, EXCEPT WHEN SWEEPING IS INEFFECTIVE AND THERE IS A THREAT TO PUBLIC SAFETY.

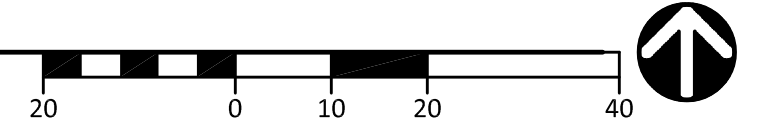
3 STABILIZED CONSTRUCTION ENTRANCE
 SCALE: NTS



NOTES:
 1. INSERT SHALL BE INSTALLED PRIOR TO CLEARING AND GRADING ACTIVITY OR UPON PLACEMENT OF A NEW CATCH BASIN.
 2. SEDIMENT SHALL BE REMOVED FROM THE UNIT WHEN IT BECOMES HALF FULL.
 3. SEDIMENT REMOVAL SHALL BE ACCOMPLISHED BY REMOVING THE INSERT, EMPTYING, AND RE-INSERTING INTO THE CATCH BASIN.

4 CATCH BASIN INSERT
 SCALE: NTS

1 TEMPORARY EROSION CONTROL PLAN
 SCALE: 1" = 20'



| MARK | DATE | DESCRIPTION |
|------|----------|--------------------|
| | 04/05/17 | PERMIT SUBMITTAL |
| | 03/07/18 | PERMIT RESUBMITTAL |
| | 05/11/18 | PERMIT SUBMITTAL |
| | 06/08/18 | PERMIT RESUBMITTAL |
| | 01/18/19 | PERMIT SUBMITTAL |
| | 05/07/19 | PERMIT RESUBMITTAL |

DESIGN: VD
 DRAWN: ZOS
 CHECK: JPU
 JOB NO: 15227.20
 DATE: 04/05/17

RUDOLF RESIDENCE
 8253 W MERCER WAY
 MERCER ISLAND, WA 98040
 TEMPORARY EROSION
 CONTROL PLAN

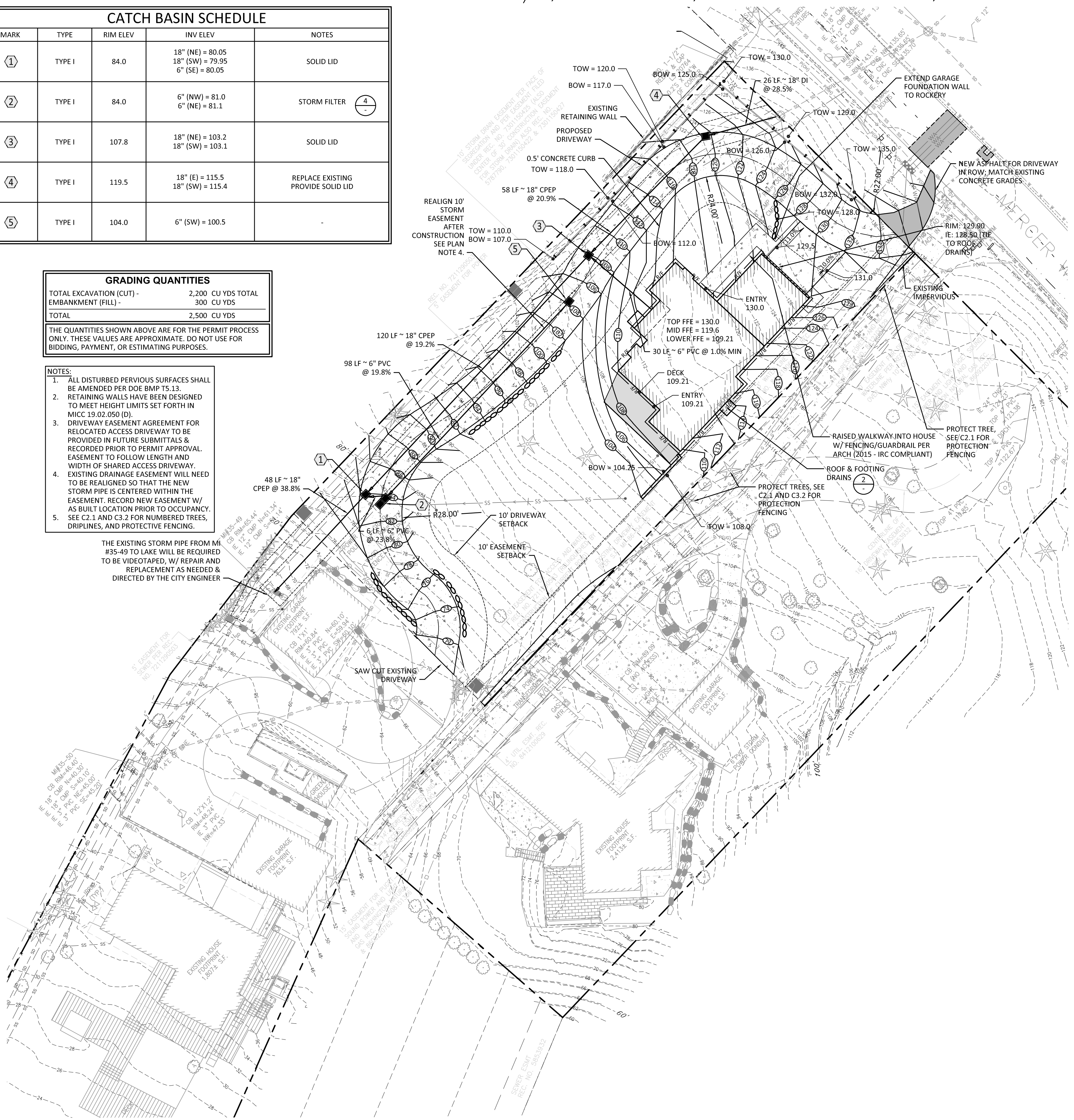
SHEET:

| CATCH BASIN SCHEDULE | | | | |
|----------------------|--------|----------|---|---------------------------------------|
| MARK | TYPE | RIM ELEV | INV ELEV | NOTES |
| ① | TYPE I | 84.0 | 18" (NE) = 80.05 18" (SW) = 79.95 6" (SE) = 80.05 | SOLID LID |
| ② | TYPE I | 84.0 | 6" (NW) = 81.0 6" (NE) = 81.1 | STORM FILTER ④ |
| ③ | TYPE I | 107.8 | 18" (NE) = 103.2 18" (SW) = 103.1 | SOLID LID |
| ④ | TYPE I | 119.5 | 18" (E) = 115.5 18" (SW) = 115.4 | REPLACE EXISTING PROVIDE SOLID LID |
| ⑤ | TYPE I | 104.0 | 6" (SW) = 100.5 | |

| GRADING QUANTITIES | |
|--------------------------|---------------------|
| TOTAL EXCAVATION (CUT) - | 2,200 CU YDS TOTAL |
| EMBANKMENT (FILL) - | 300 CU YDS |
| TOTAL | 2,500 CU YDS |

THE QUANTITIES SHOWN ABOVE ARE FOR THE PERMIT PROCESS ONLY. THESE VALUES ARE APPROXIMATE. DO NOT USE FOR BIDDING, PAYMENT, OR ESTIMATING PURPOSES.

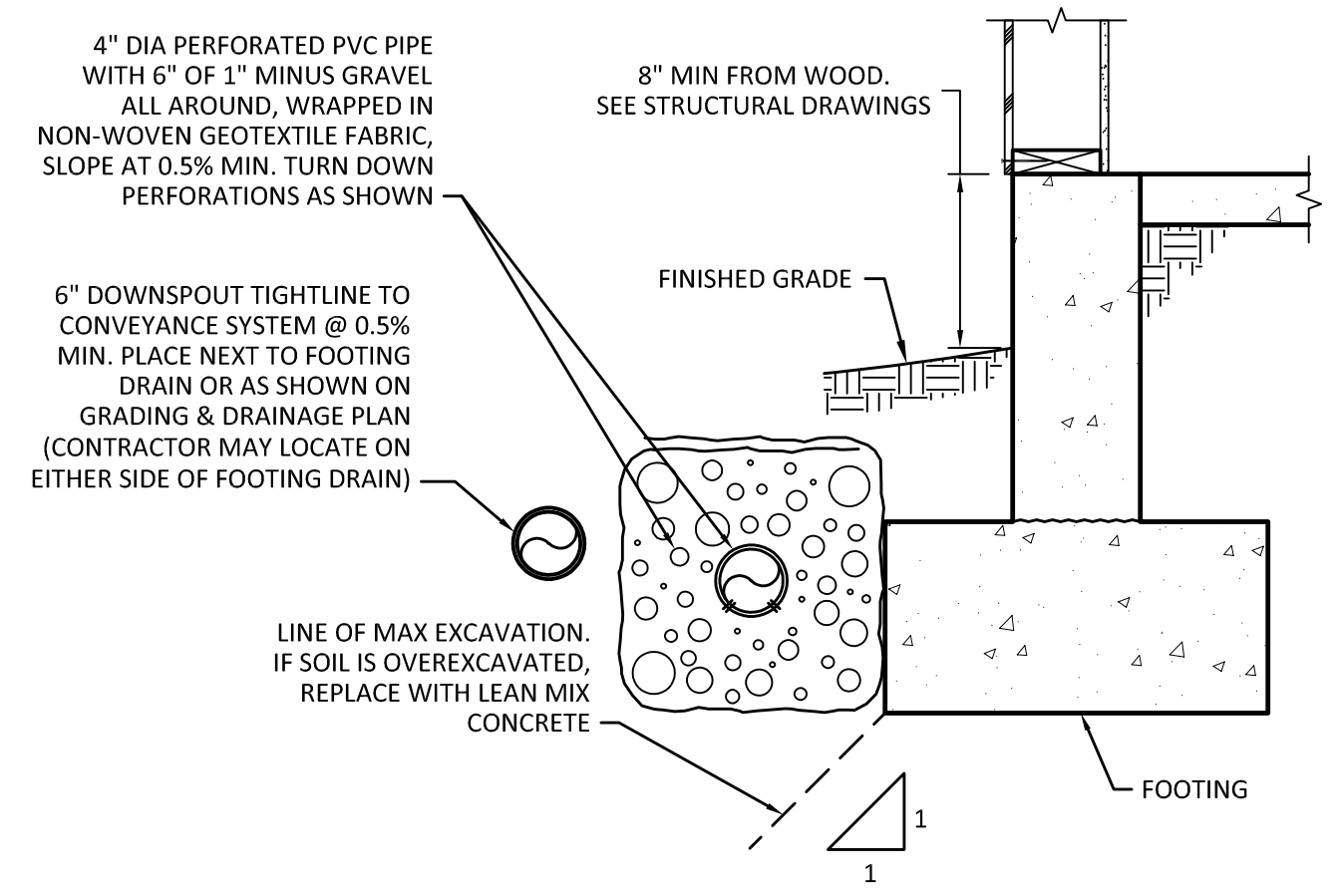
- NOTES:**
- ALL DISTURBED PERVIOUS SURFACES SHALL BE AMENDED PER DOE BMP TS.13.
 - RETAINING WALLS HAVE BEEN DESIGNED TO MEET HEIGHT LIMITS SET FORTH IN MHCC 19.02.050 (D).
 - DRIVEWAY EASEMENT AGREEMENT FOR RELOCATED ACCESS DRIVEWAY TO BE PROVIDED IN FUTURE SUBMITTALS & RECORDED PRIOR TO PERMIT APPROVAL. EASEMENT TO FOLLOW LENGTH AND WIDTH OF SHARED ACCESS DRIVEWAY. EXISTING DRAINAGE EASEMENT WILL NEED TO BE REALIGNED SO THAT THE NEW STORM PIPE IS CENTERED WITHIN THE EASEMENT. RECORD NEW EASEMENT W/ AS BUILT LOCATION PRIOR TO OCCUPANCY.
 - SEE C2.1 AND C3.2 FOR NUMBERED TREES, DRIP LINES, AND PROTECTIVE FENCING.
- THE EXISTING STORM PIPE FROM MI #35-49 TO LAKE WILL BE REQUIRED TO BE VIDEOTAPED, W/ REPAIR AND REPLACEMENT AS NEEDED & DIRECTED BY THE CITY ENGINEER



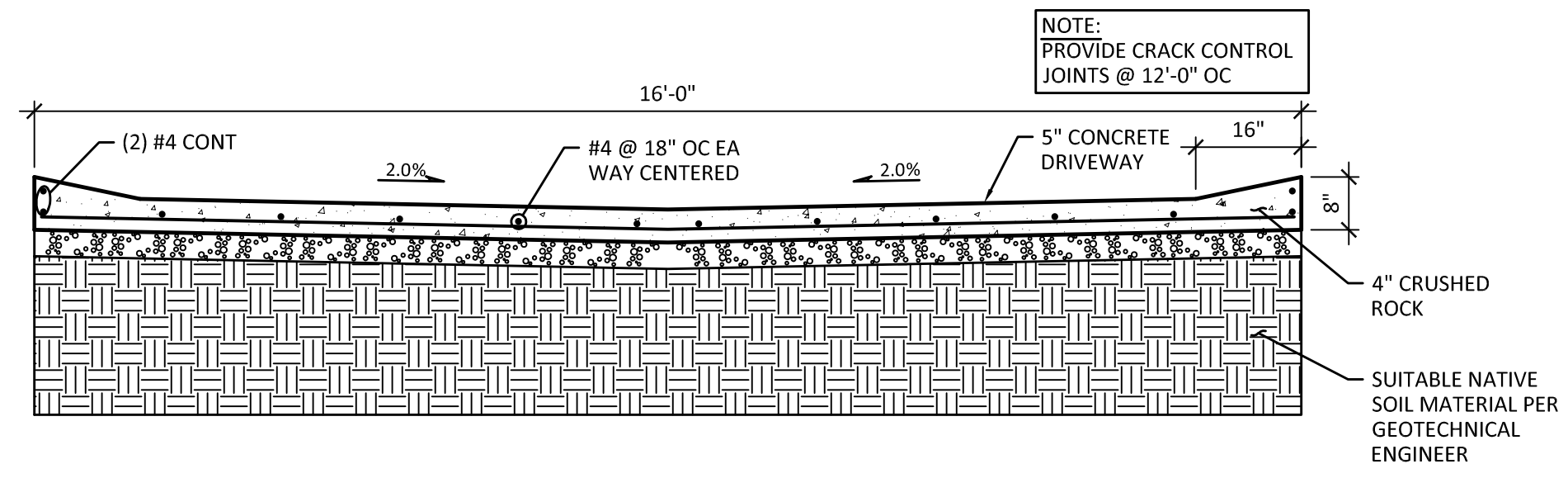
IMPERVIOUS AREAS (SF):

PAVEMENT = 5,836
 ROOF = 2,493
 TOTAL = 8,329

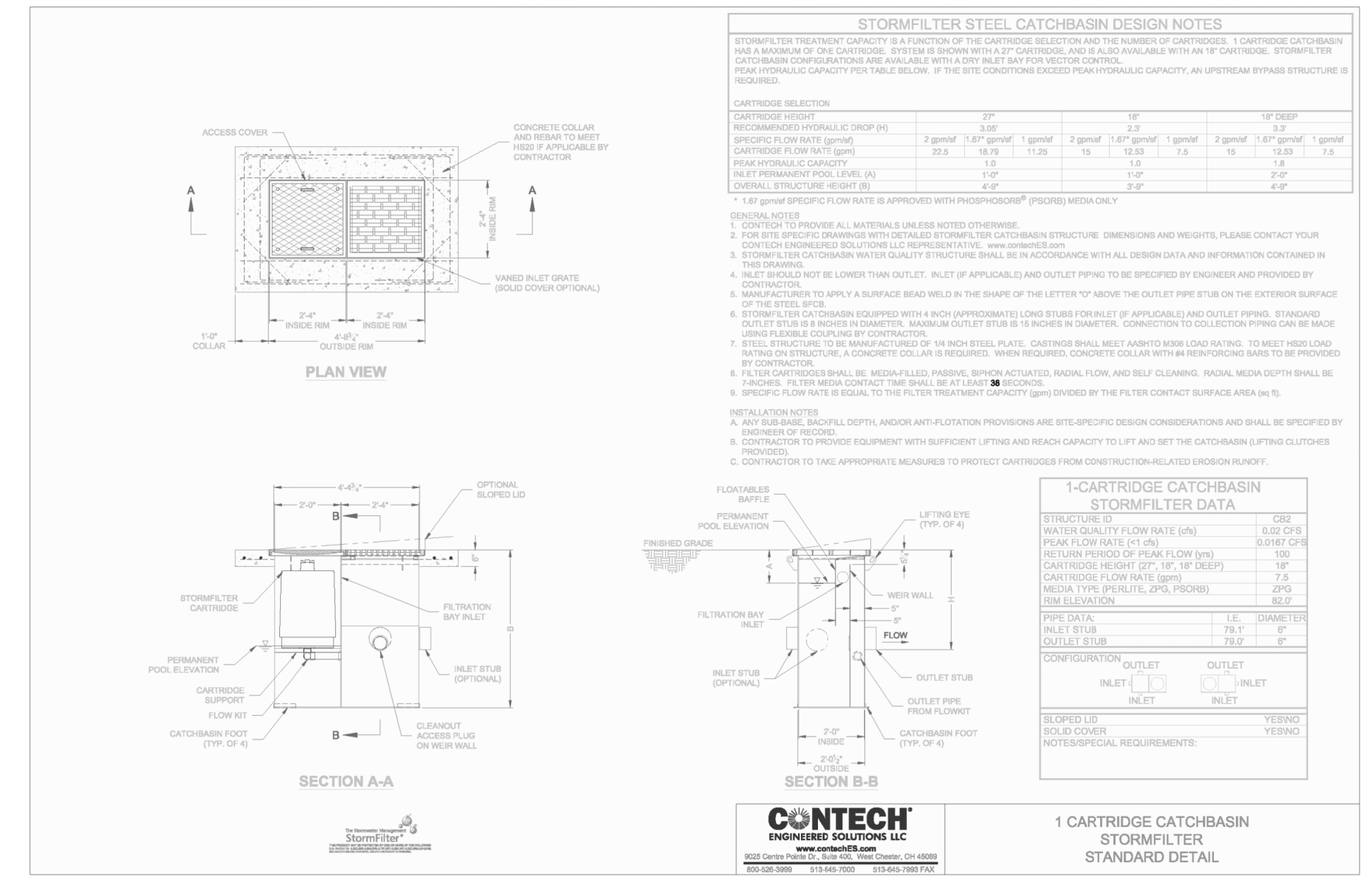
*NOTE: REFER TO ARCH PLANS FOR LOT COVERAGE CALCULATION



2 FOOTING AND ROOF DRAIN SECTION
 SCALE: NTS

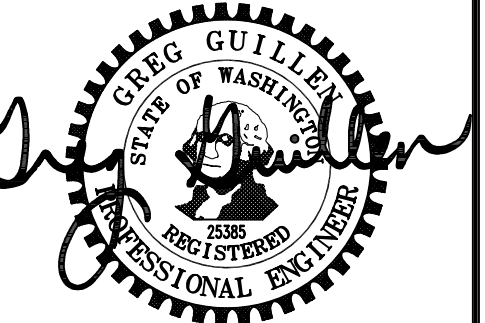
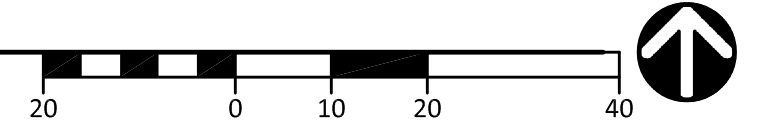


3 TYPICAL DRIVEWAY CROSS SECTION
 SCALE: 1/2" = 1'-0"



4 STORMFILTER DETAIL
 SCALE: 1" = 1'-0"

1 GRADING AND DRAINAGE PLAN
 SCALE: 1" = 20'



| MARK | DATE | DESCRIPTION |
|------|----------|--------------------|
| | 04/05/17 | PERMIT SUBMITTAL |
| | 03/07/18 | PERMIT RESUBMITTAL |
| | 05/11/18 | PERMIT RESUBMITTAL |
| | 06/08/18 | PERMIT RESUBMITTAL |
| | 01/18/19 | PERMIT RESUBMITTAL |
| | 05/07/19 | PERMIT RESUBMITTAL |

DESIGN: VD
 DRAWN: ZOS
 CHECK: JPU
 JOB NO: 15227.20
 DATE: 04/05/17

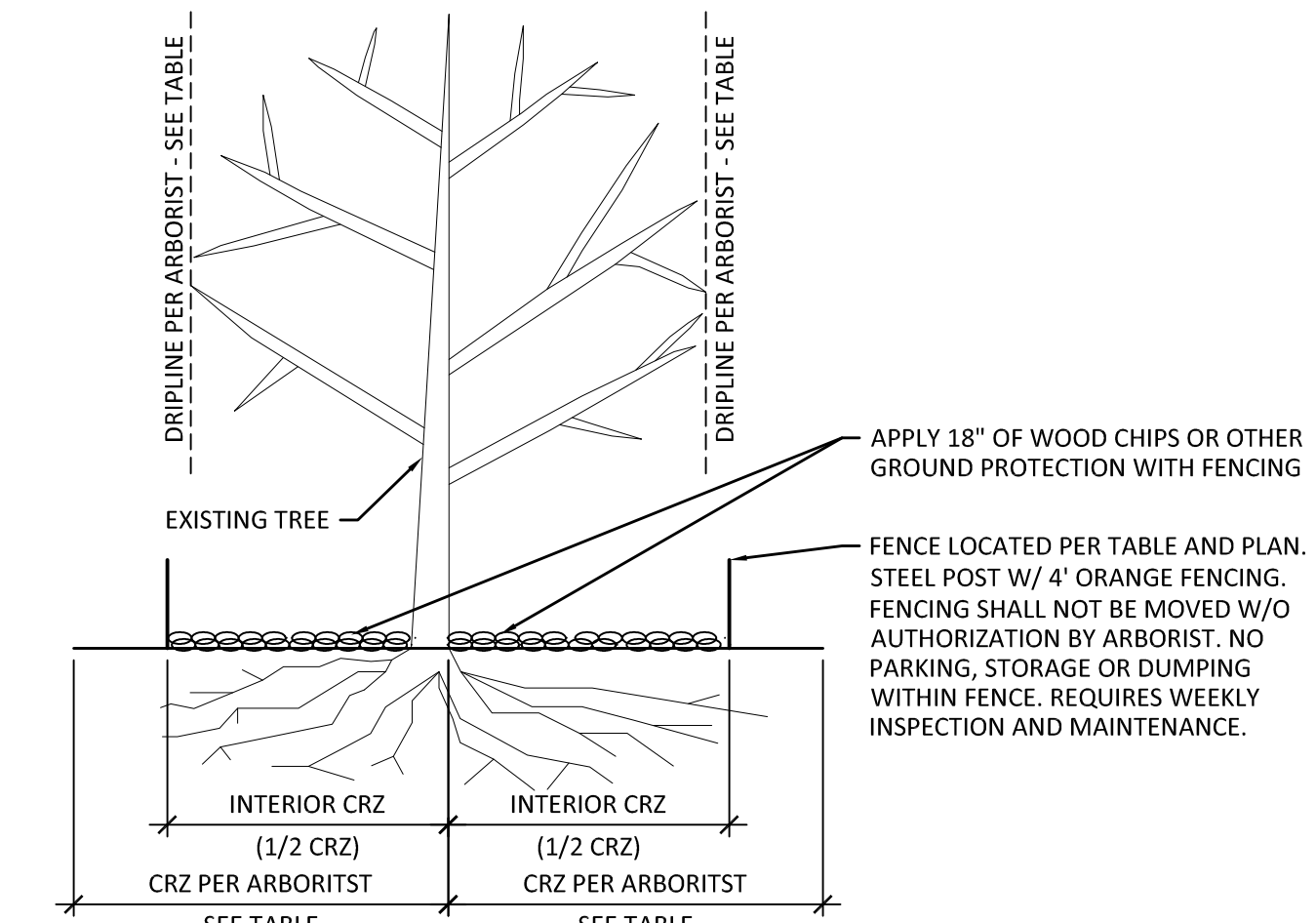
RUDOLF RESIDENCE
 8253 W MERCER WAY
 MERCER ISLAND, WA 98040
 GRADING AND
 DRAINAGE PLAN

SHEET:
C3.1

NE 1/4, SECTION 36, TOWNSHIP 24 NORTH, RANGE 4 EAST, W.M.

- NOTES:**
1. PLAN BUILT IN REFERENCE TO 9/18/18 TREE REPORT BY URBAN FORESTRY SERVICES, INC.
 2. TREE DENOTED WITH AN "X" ARE TO BE REMOVED AND ARE NOT DEPICTED IN OTHER "PROPOSED WORK" SHEETS OF THIS SET.
 3. ARBORIST TO EVALUATE ALL WORK WITHIN TREE DRIP LINES DURING CONSTRUCTION TO PROTECT TREES. PROVIDE PROTECTION BEYOND DRIP LINES AS FEASIBLE AS CONSTRUCTION OCCURS.
 4. BEST BUILDING PRACTICES WILL INSTITUTED TO ADDRESS IMPACTS WITHIN DRIP LINES.
 5. SEE ARBORIST REPORT FOR RECOMMENDATIONS ABOUT GRADING NEAR PROTECTED TREES.

- TREE LEGEND**
- NON-EXCEPTIONAL TREE
 - ★ EXCEPTIONAL TREE
 - X TREE PROTECTION FENCE-SET @ DRIFLINE OR INTERIOR CRITICAL ROOT ZONE (1/2 CRZ). (SEE TABLE)
 - IMPACTS PROHIBITING FULL FENCED RADII
 - ▨ REMOVE EXISTING DRIVEWAY; ADD FENCE AS SHOWN FOLLOWING REMOVAL



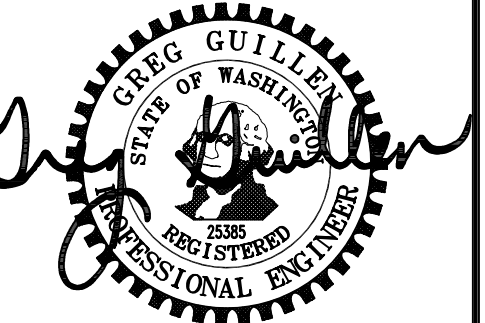
2 TREE PROTECTION DETAIL
 SCALE: NTS

Rudolf Property Tree Evaluation Table
 Based on Urban Forestry Services Tree Report dated 9/18/18

| Tree # | Species | DBH (in) | Dripline (ft) | CRZ (ft) | Preservation Value | Arborist Recommendation | Plan |
|--------|-------------------|-------------------|---------------|----------|--------------------|---|---------|
| 101 | Red alder | 17.2 | 14 | 17.2 | Low | Remove Tree, Construction Risk of Failure | Remove |
| 102 | Red alder | 14.8, 12.8, 12.8 | 20 | 23.4 | Low | Remove Tree, Construction Impact | Remove |
| 103 | Cherry | 23.5 | 22 | 23.5 | Low | Remove Tree, Construction Impact | Remove |
| 104 | Bigleaf maple | 25.9 | 24 | 25.9 | Low | Remove Tree, Construction Risk of Failure | Remove |
| 105 | Bigleaf maple | 18 | 12 | 18 | Medium | Remove Tree, Construction Impact - Retain Tree with Plan Adjustments | Remove |
| 106 | Bigleaf maple | 15.4 | 9.5 | 15.4 | Low | Remove Tree, Construction Impact | Remove |
| 107 | Bigleaf maple | 17.8 | 18.5 | 17.8 | Low | Remove Tree, Construction Impact | Remove |
| 108 | Bigleaf maple | 13.7 | 7.5 | 13.7 | Low | Remove Tree, Construction Impact | Remove |
| 109 | Bigleaf maple | 16.5 | 12.8 | 16.5 | Low | Remove Tree, Construction Impact | Remove |
| 110 | Western red cedar | 25.3 | 11.8 | 25.3 | Medium | Remove Tree, Construction Risk of Failure - Retain Tree with Plan Adjustments. New road development should not impact more than 1/4 critical root zone of tree. Fence around interior crz (15'). Excavation within CRZ will be conducted by hand or with pneumatic tool for air excavation. | Retain |
| 111 | Western red cedar | 29.3 | 13.5 | 29.3 | High | Remove Tree, Construction Risk of Failure - Retain Tree with Plan Adjustments. New road development should not impact more than 1/4 critical root zone of tree. Fence around interior crz (15'). Excavation within CRZ will be conducted by hand or with pneumatic tool for air excavation. | Retain |
| 112 | Douglas Fir | 20.3 | 16.5 | 20.3 | Low | Monitor Tree, Risk of Failure - Retain Tree | Retain |
| 113 | Pacific madrone | 10.1, 3.2 (10.59) | 11 | 10.6 | High | Exceptional - Fence Around Dripline, 11'. Retain Tree - Tree Protection Required | Retain |
| 114 | Bigleaf maple | 45 | 13.5 | 45 | None | Remove Tree, Hazard - Cut to Create a Wildlife Tree | Remove |
| 115 | Bigleaf maple | 15.8, 28 (32.15) | 9.5 | 32.2 | None | Remove Tree, Hazard - Create Wildlife Tree | Remove |
| 116 | Black cottonwood | 37.5 | 5.5 | 37.5 | None | Remove Tree, Hazard - Cut to Create a Wildlife Tree | Remove |
| 117 | Bigleaf maple | 14 | 6.5 | 14 | Low | Remove Tree, Hazard - Create Wildlife Tree | Remove |
| 118 | Bigleaf maple | 17.1 | 7 | 17.1 | Medium | Retain Tree - Monitor Tree, During Construction. Fence For 120 Covers Dripline & Interior CRZ. | Retain |
| 119 | Black cottonwood | 35 | 7.3 | 35 | None | Remove Tree, Hazard | Remove |
| 120 | Black cottonwood | 38 | 16 | 38 | Low | Retain Tree - Tree Protection Required. Fence Around Interior CRZ (19'). Retain Snags And Stumps For Large Trees Surrounding This Tree. | Retain |
| 121 | Western red cedar | 21.3 | 7 | 21.3 | Medium | Retain Tree - Tree Protection Required. Fence Around Interior CRZ (11') | Retain |
| 122 | Douglas Fir | 45.8 | 20 | 45.8 | High | Exceptional - Retain Tree with Plan Adjustments. Fence Around Interior CRZ (23') Arborist Oversight Should Occur During Excavation For The Wall To Assess Root Damage And Impacts To Tree Stability | Retain |
| 123 | Bigleaf maple | 10.3 | 4.5 | 10.3 | Low | Retain Tree - Monitor Tree, During Construction. Fence For 122 Covers Dripline And Interior CRZ. | Retain |
| 124 | Bigleaf maple | 18.2 | 8.5 | 18.2 | Low | Remove Tree, Construction Impact | Remove |
| 125 | Douglas Fir | 32.5 | 19 | 32.5 | Low | Monitor Tree, Risk of Failure - Tree Protection Required, Monitor During Construction - Monitor Tree, Construction Impacts | Offsite |
| 126 | Bitter cherry | 14.5 | 0 | 14.5 | None | Create Wildlife Tree - Remove Tree, Dead | Offsite |
| 127 | Douglas Fir | 39.5 | 18 | 39.5 | Medium | Exceptional - Monitor Tree, Risk of Failure - Tree Protection Required, Monitor During Construction - Retain Tree With Plan Adjustments | Offsite |
| 128 | Bigleaf maple | 34 | 14.3 | 34 | None | Crown Clean Prune - Install Tree Protection Fencing - Monitor Tree, Risk of Failure - Cut to Create a Wildlife Tree | Offsite |
| 129 | Bigleaf maple | 18, 18 (25.46) | 15 | 25.5 | None | Remove Tree, Hazard - Cut to Create a Wildlife Tree | Offsite |
| 130 | Kwanzan cherry | 6 | 4 | 6 | Medium | Crown Reduction Prune - Install Tree Protection Fencing - Monitor Tree, Construction Impacts | Offsite |
| 131 | Kwanzan cherry | 6 | 4 | 6 | Medium | Crown Reduction Prune - Install Tree Protection Fencing - Monitor Tree, Construction Impacts | Offsite |
| 132 | Arborvitae | 4 | 4 | 4 | Low | Install Tree Protection Fencing - Monitor Tree, Construction Impacts | Offsite |

3 TREE EVALUATION TABLE (BASED ON TREE REPORT)
 SCALE: 1" = 20'

1 TREE PLAN
 SCALE: 1" = 20'



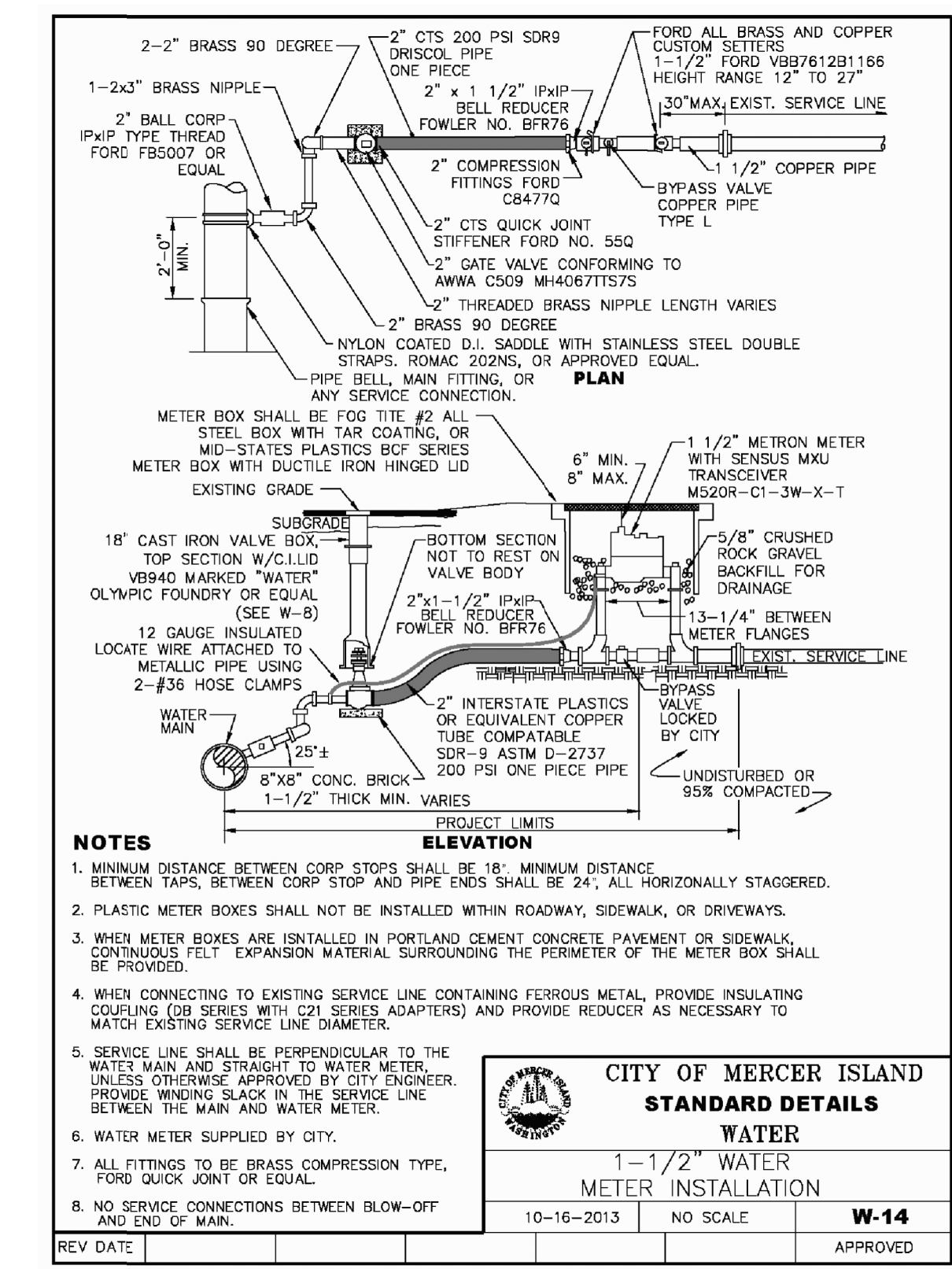
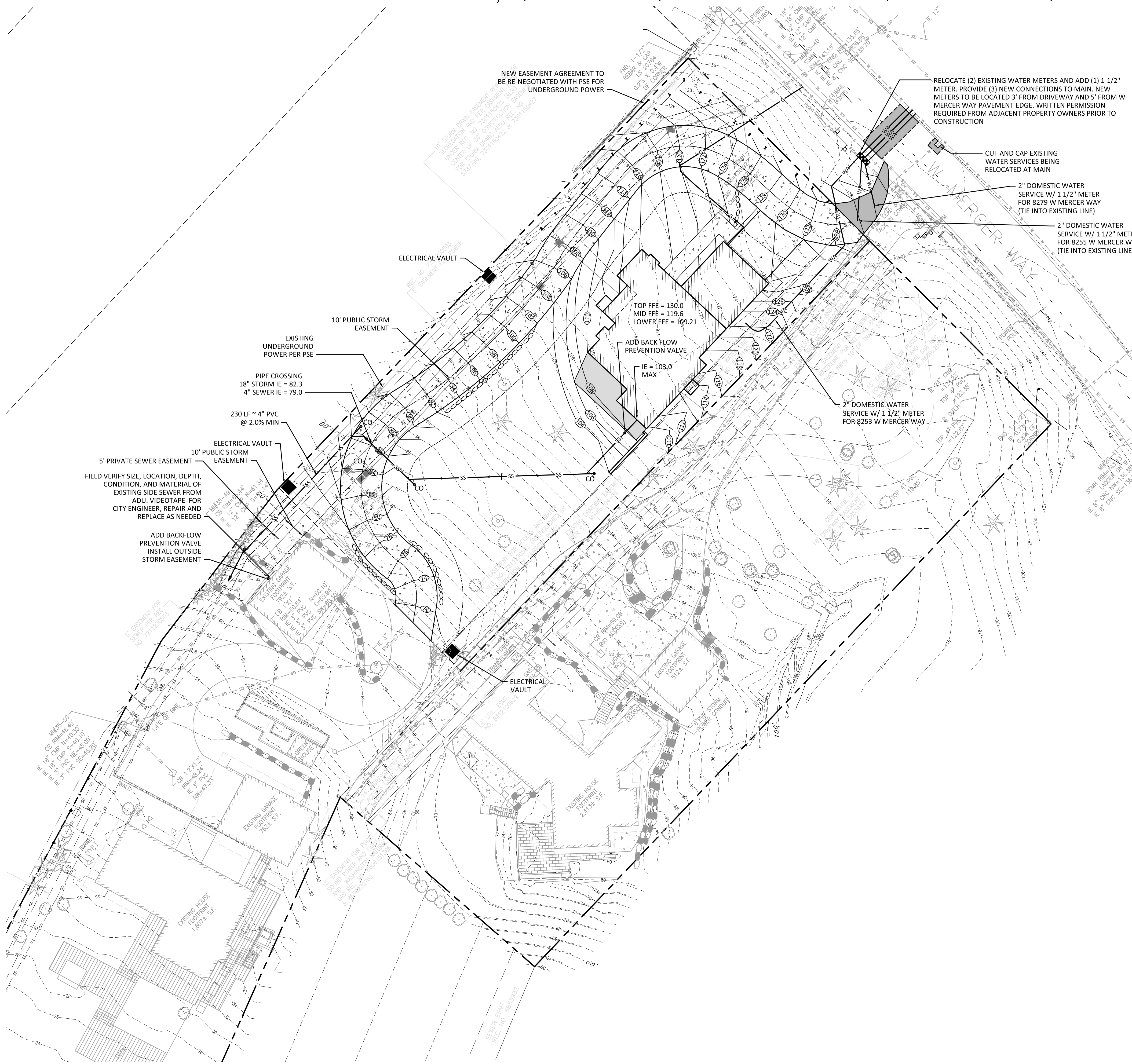
| MARK | DATE | DESCRIPTION |
|------|----------|--------------------|
| | 04/05/17 | PERMIT SUBMITTAL |
| | 03/07/18 | PERMIT RESUBMITTAL |
| | 05/11/18 | PERMIT SUBMITTAL |
| | 06/08/18 | PERMIT RESUBMITTAL |
| | 01/18/19 | PERMIT SUBMITTAL |
| | 05/07/19 | PERMIT RESUBMITTAL |

DESIGN: VD
 DRAWN: ZOS
 CHECK: JPU
 JOB NO: 15227.20
 DATE: 04/05/17

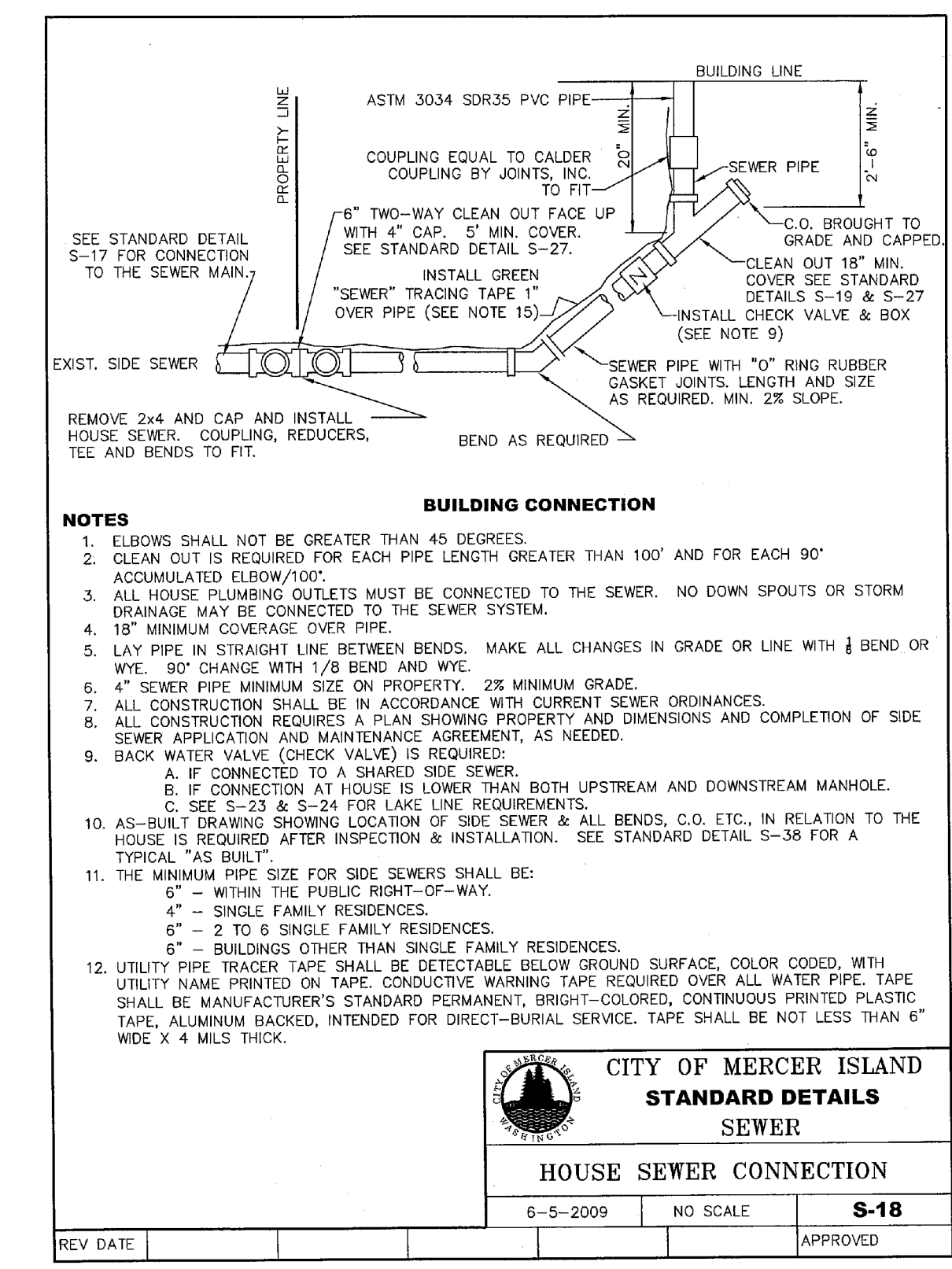
RUDOLF RESIDENCE
 8253 W MERCER WAY
 MERCER ISLAND, WA 98040
TREE PLAN

SHEET:
C3.2

NE 1/4, SECTION 36, TOWNSHIP 24 NORTH, RANGE 4 EAST, W.M.



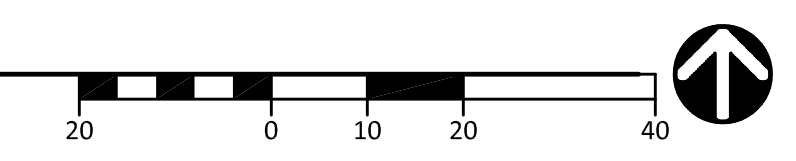
2 CITY OF MERCER ISLAND STANDARD DETAIL
SCALE: NTS



3 CITY OF MERCER ISLAND STANDARD DETAIL
SCALE: NTS

- NOTES:
 1. CONTRACTOR TO WORK WITH LOWER HOME OWNERS LANDSCAPER TO REMOVE IRRIGATION LINES AND PLANTS THAT CONFLICT WITH INSTALLATION OF NEW SEWER LINE.
 2. CONTRACTOR TO COORDINATE EXACT LOCATION OF NEW/RELOCATED WATER METERS WITH THE CITY WATER DEPARTMENT DURING CONSTRUCTION.

1 WATER AND SEWER PLAN
SCALE: 1" = 20'



ENGINEERING
 250 4TH AVE. S., SUITE 200
 EDMONDS, WASHINGTON 98020
 PHONE (425) 778-8500
 FAX (425) 778-5536

05/07/19

| MARK | DATE | DESCRIPTION |
|------|----------|--------------------|
| | 04/05/17 | PERMIT SUBMITTAL |
| | 03/07/18 | PERMIT RESUBMITTAL |
| | 05/11/18 | PERMIT SUBMITTAL |
| | 06/08/18 | PERMIT RESUBMITTAL |
| | 01/18/19 | PERMIT SUBMITTAL |
| | 05/07/19 | PERMIT RESUBMITTAL |

| | |
|---------|----------|
| DESIGN: | VD |
| DRAWN: | ZOS |
| CHECK: | JPU |
| JOB NO: | 15227.20 |
| DATE: | 04/05/17 |

RUDOLF RESIDENCE
 8253 W MERCER WAY
 MERCER ISLAND, WA 98040
WATER AND SEWER PLAN

SHEET:
C4.1

BOUNDARY AND TOPOGRAPHIC SURVEY

LEGAL DESCRIPTION

(PER FIDELITY NATIONAL TITLE INSURANCE COMPANY SUBDIVISION GUARANTEE NO. 611086191, DATED SEPTEMBER 10, 2014 AT 12:00AM)

FOR AUDITOR'S PARCEL NUMBER: 335850 0490

THAT PORTION OF TRACT 572, C. D. HILLMAN'S SEA SHORE - LAKE FRONT GARDEN OF EDEN ADDITION TO THE CITY OF SEATTLE, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 12 OF PLATS, PAGE(S) 44, IN KING COUNTY, WASHINGTON, DESCRIBED AS FOLLOWS:

BEGINNING AT AN IRON POST LOCATED AT THE MOST NORTHERLY CORNER OF TRACT 572, SAID IRON POST BEING LOCATED SOUTH 41°40' WEST A DISTANCE OF 37.00 FEET FROM AN INTERSECTION WITH THE CENTERLINE TANGENT PRODUCED OF WEST MERCER WAY, SAID TANGENT HAVING A BEARING OF 55° EAST, AND SAID POST BEING THE INTERSECTION OF THE NORTHWESTERLY MARGIN OF TRACT 572 AND THE SOUTHWESTERLY MARGIN OF COUNTY ROAD (WEST MERCER WAY) RECORDED UNDER RECORDING NUMBER 928842, IN KING COUNTY, WASHINGTON, AND THE TRUE POINT OF BEGINNING; THENCE SOUTH 41°40' WEST A DISTANCE OF 230.33 FEET; THENCE SOUTH 46°44'44" EAST A DISTANCE OF 100.12 FEET; THENCE NORTH 41°38'48" EAST A DISTANCE OF 230.33 FEET TO THE SOUTHERLY MARGIN OF WEST MERCER WAY; THENCE NORTH 46°44'44" WEST A DISTANCE OF 100.00 FEET TO THE POINT OF BEGINNING.

SITUATE IN THE COUNTY OF KING, STATE OF WASHINGTON.

(PER FIDELITY NATIONAL TITLE INSURANCE COMPANY SUBDIVISION GUARANTEE NO. 611092768, DATED JUNE 12, 2015 AT 12:00AM)

FOR AUDITOR'S PARCEL NUMBER: 335850 0480

PARCEL A:

TRACTS 505 THROUGH 509 AND A PORTION OF TRACT 572, C.D. HILLMAN'S SEA SHORE LAKE FRONT GARDEN OF EDEN ADDITION TO THE CITY OF SEATTLE, ACCORDING TO THE PLAT THEREOF, RECORDED IN VOLUME 12 OF PLATS, PAGE 44, IN KING COUNTY, WASHINGTON.

TOGETHER WITH ADJACENT LAKE WASHINGTON SHORELANDS DESCRIBED AS FOLLOWS:

BEGINNING AT AN IRON POST LOCATED AT THE MOST NORTHERLY CORNER OF TRACT 572, SAID IRON POST BEING LOCATED SOUTH 41° 40' WEST A DISTANCE OF 37.00 FEET FROM AN INTERSECTION WITH THE CENTERLINE TANGENT PRODUCED OF WEST MERCER WAY, SAID TANGENT HAVING A BEARING SOUTH 50° 00' EAST, AND SAID POST BEING THE INTERSECTION OF THE NORTHWESTERLY MARGIN OF TRACT 572 AND THE SOUTHWESTERLY MARGIN OF COUNTY ROAD (WEST MERCER WAY) RECORDED UNDER RECORDING NO. 928842, IN KING COUNTY, WASHINGTON;

THENCE SOUTH 46° 44' 44" EAST A DISTANCE OF 100.00 FEET; THENCE SOUTH 41° 38' 48" WEST A DISTANCE OF 297.87 FEET TO THE TRUE POINT OF BEGINNING; THENCE NORTH 41° 38' 48" EAST A DISTANCE OF 67.54 FEET; THENCE NORTH 46° 44' 44" WEST A DISTANCE OF 100.12 FEET; THENCE SOUTH 35° 31' 40" WEST A DISTANCE OF 74.74 FEET; THENCE SOUTH 26° 10' 58" WEST A DISTANCE OF 145.35 FEET; THENCE SOUTH 20° 49' WEST A DISTANCE OF 26 FEET MORE OR LESS TO THE SHORELINE OF LAKE WASHINGTON; THENCE SOUTHEASTERLY ALONG SAID SHORELINE TO A POINT FROM WHICH THE TRUE POINT OF BEGINNING BEARS NORTH 22° 07' 36" EAST; THENCE NORTH 22° 07' 36" EAST A DISTANCE OF 173 FEET MORE OR LESS TO THE POINT OF BEGINNING.

PARCEL B:

AN EASEMENT FOR INGRESS, EGRESS, AND UTILITIES OVER THAT PORTION OF THE SOUTHEASTERLY 10 FEET OF SAID TRACT 572 LYING NORTHEASTERLY OF THE NORTHEAST LINE OF THE ABOVE DESCRIBED TRACT AND SOUTHWESTERLY OF WEST MERCER WAY.

PARCEL C:

AN EASEMENT FOR INGRESS AND EGRESS OVER AN EXISTING ROAD AS MORE FULLY SET FORTH IN THAT CERTAIN GRANT FOR "EASEMENT OF ROAD" DATED NOVEMBER 29, 1972, RECORDED NOVEMBER 29, 1972, UNDER RECORDING NO. 7211290503.

SITUATE IN THE COUNTY OF KING, STATE OF WASHINGTON.

(PER FIDELITY NATIONAL TITLE INSURANCE COMPANY ALTA COMMITMENT NO. 611089657, DATED NOVEMBER 13, 2014 AT 08:00AM)

FOR AUDITOR'S PARCEL NUMBER: 335850 0480

LOT 571 OF C-D. HILLMAN'S SEA SHORE LAKE FRONT GARDEN OF EDEN ADDITION TO THE CITY OF SEATTLE, AS PER PLAT RECORDED IN VOLUME 12 OF PLATS, PAGE 44, RECORDS OF KING COUNTY AUDITOR;

EXCEPT THAT PORTION THEREOF DEEDED TO KING COUNTY FOR ROAD PURPOSES BY DEED RECORDED UNDER KING COUNTY RECORDING NO. 982284;

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

PROCEDURE / NARRATIVE:

A FIELD TRAVERSE USING A FOCUS 30 ROBOTIC TOTAL STATION AND A SPECTRA PRECISION RANGER 3 DATA COLLECTOR SUPPLEMENTED WITH FIELD NOTES AND TOPCON GRS NETWORK RTK GPS ROVER, WAS PERFORMED, ESTABLISHING THE ANGULAR, DISTANCE, AND VERTICAL RELATIONSHIPS BETWEEN THE MONUMENTS, PROPERTY LINES AND IMPROVEMENTS. THE RESULTING DATA MEETS OR EXCEEDS THE STANDARDS FOR LAND BOUNDARY SURVEYS AS SET FORTH IN WAC 332-130-090.

BASIS OF BEARING (NAD83/91 PER CITY OF MERCER ISLAND)

BASIS OF BEARING FOR THIS SURVEY IS NAD83/91 PER CITY OF MERCER ISLAND. MERCER ISLAND CONTROL POINT NO. 4332 WAS HELD FOR POSITION, AND A LINE BETWEEN SAID CONTROL POINT NO. 4332 AND CITY OF MERCER ISLAND CONTROL POINT NO. 4358 WAS HELD FOR ROTATION, TAKEN AS NORTH 88°53'30" EAST.

BASIS OF ELEVATIONS (NAVDB88 PER CITY OF MERCER ISLAND)

VERTICAL DATUM FOR THIS SURVEY IS NAVDB88 PER CITY OF MERCER ISLAND. CITY OF MERCER ISLAND CONTROL POINT NO. 4332 WAS HELD FOR ELEVATION, BEING 140.594'

ASSESSOR'S PARCEL NUMBERS & AREAS

APN 335850 0490: 23,020.2± SQ. FT. (0.528± ACRES)
APN 335850 0480: 23,148.7± SQ. FT. (0.531± ACRES)
APN 335850 0830: 29,435.9± SQ. FT. (0.676± ACRES)

SITE ADDRESSES

APN 335850 0490: 8253 W MERCER WAY, MERCER ISLAND WA, 98040
APN 335850 0480: 8255 W MERCER WAY, MERCER ISLAND WA, 98040
APN 335850 0830: 8275 W MERCER WAY, MERCER ISLAND WA, 98040

FLOOD INFORMATION

NO FEMA PANEL AVAILABLE FOR THIS AREA.

DATE OF SURVEY

OCTOBER 5, 7, 8, 9 & 10, 2015.

REFERENCE SURVEYS

- PLAT OF C. D. HILLMAN'S SEA SHORE-LAKE FRONT GARDEN OF EDEN ADDITION TO THE CITY OF SEATTLE, BY O. O. ROWLAND, AFN 19050801347887
- CECILE LOGAN TRUST SHORT PLAT (MSP NO. 92-1102), BY C&T SURVEYING, AFN 199303179002
- D. HUBBARD LOT LINE REVISION (MI-86-04-05), BY TRIAD ASSOC., AFN 198612169002
- KING COUNTY ENGINEER'S OFFICE ROAD NO. 987 (42-63), FROM KCRS-MAP VAULT, MARCH 1937
- KING COUNTY ASSESSOR'S QUARTER SECTION MAP, NE 36-24-04, DATED 9/30/2014

NOTES

- ALL DISTANCES SHOWN ON THIS SURVEY ARE IN US SURVEY FEET.
- UTILITIES ARE SHOWN PER SURFACE OBSERVATIONS, UTILITY LOCATE MARKINGS AND OTHER AVAILABLE DATA.
- THIS SURVEY IS A RETRACEMENT OF THE DESCRIPTIONS ABOVE AND DOES NOT PURPORT TO SHOW ANY UNRECORDED OWNERSHIP RIGHTS.

SPECIAL EXCEPTIONS FOR APN 335850 0490:

(PER FIDELITY NATIONAL TITLE INSURANCE COMPANY SUBDIVISION GUARANTEE NO. 611086191, DATED SEPTEMBER 10, 2014 AT 12:00AM)

- NOT SURVEY RELATED.**
- PLEASE BE ADVISED THAT OUR SEARCH DID NOT DISCLOSE ANY OPEN DEEDS OF TRUST OF RECORD.
- RIGHT TO ENTER SAID PREMISES TO MAKE REPAIRS TO THE SEWER PIPE LINE LOCATED ON PROPERTY ADJOINING SAID PREMISES TO THE SOUTH, AS GRANTED BY INSTRUMENT RECORDED UNDER RECORDING NO. 5787790.
- EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO AS SET FORTH IN A DOCUMENT:
PURPOSE: ROAD
RECORDING DATE: NOVEMBER 29, 1972
RECORDING NO.: 7211290503
AFFECTS: AS DESCRIBED THEREIN (PLOTTED)
- EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO:
DISCLOSED BY: ROAD EASEMENT
IN FAVOR OF: NOT DISCLOSED
PURPOSE: ELECTRIC TRANSMISSION LINE, WATER LINE AND INGRESS AND EGRESS
RECORDING DATE: NOVEMBER 29, 1972
RECORDING NO.: 7211290503
AFFECTS: AS DESCRIBED THEREIN (PLOTTED)
- EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO AS SET FORTH IN A DOCUMENT:
PURPOSE: CITY OF MERCER ISLAND DRAINAGE DITCHES, FLUMES, CULVERTS, PIPES, AND ALL NECESSARY CONNECTIONS AND APPURTENANCES
RECORDING DATE: JANUARY 15, 1973
RECORDING NO.: 7301150423
AFFECTS: AS DESCRIBED THEREIN (PLOTTED)

SPECIAL EXCEPTIONS FOR APN 335850 0480:

(PER FIDELITY NATIONAL TITLE INSURANCE COMPANY SUBDIVISION GUARANTEE NO. 611092768, DATED JUNE 12, 2015 AT 12:00AM)

- NOT SURVEY RELATED**
- PLEASE BE ADVISED THAT OUR SEARCH DID NOT DISCLOSE ANY OPEN DEEDS OF TRUST OF RECORD.
- EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO AS SET FORTH IN A DOCUMENT:
IN FAVOR OF: PUGET SOUND POWER & LIGHT COMPANY
PURPOSE: ELECTRIC LINE
RECORDING DATE: JANUARY 24, 1961
RECORDING NO.: 5244612
AFFECTS: AS DESCRIBED THEREIN (FOLLOWS THE UTILITY AS NOW CONSTRUCTED OR AS MAY BE RELOCATED BY MUTUAL CONSENT)
- EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO AS SET FORTH IN A DOCUMENT:
IN FAVOR OF: MERCER ISLAND SEWER DISTRICT
PURPOSE: SEWER PIPE LINE(S)
RECORDING DATE: SEPTEMBER 17, 1964
RECORDING NO.: 5787790
AFFECTS: AS DESCRIBED THEREIN (10' WIDE STRIP OF LAND, 5' ON EITHER SIDE OF PIPE LINE AS INSTALLED)
- AGREEMENT AND THE TERMS AND CONDITIONS THEREOF:
RECORDING DATE: NOVEMBER 28, 1972
RECORDING NO.: 7211280046
REGARDING: BOUNDARY LINE ADJUSTMENT
- EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO AS SET FORTH IN A DOCUMENT:
PURPOSE: ROAD
RECORDING DATE: NOVEMBER 29, 1972
RECORDING NO.: 7211290503
AFFECTS: AS DESCRIBED THEREIN (PLOTTED)
- EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO AS SET FORTH IN A DOCUMENT:
IN FAVOR OF: CITY OF MERCER ISLAND DRAINAGE DITCHES, FLUMES, CULVERTS, PIPES AND ALL NECESSARY APPURTENANCES
RECORDING DATE: JANUARY 15, 1973
RECORDING NO.: 7301150422 AND 7301150425
AFFECTS: AS DESCRIBED THEREIN (PLOTTED)
- EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO AS SET FORTH IN A DOCUMENT:
IN FAVOR OF: CITY OF MERCER ISLAND STORM DRAINAGE PIPE
RECORDING DATE: JANUARY 15, 1973
RECORDING NO.: 7301150427
AFFECTS: AS DESCRIBED THEREIN (PLOTTED)
- USE AGREEMENT AND THE TERMS AND CONDITIONS THEREOF:
RECORDING DATE: MARCH 26, 1986
RECORDING NO.: 8603260312
- QUESTION OF LOCATION OF LATERAL BOUNDARIES OF SAID SECOND CLASS TIDELANDS OR SHORELANDS.
- ANY PROHIBITION OR LIMITATION OF USE, OCCUPANCY OR IMPROVEMENT OF THE LAND RESULTING FROM THE RIGHTS OF THE PUBLIC OR RIPARIAN OWNERS TO USE ANY PORTION WHICH IS NOW OR WAS FORMERLY COVERED BY WATER.
- PARAMOUNT RIGHTS AND EASEMENTS IN FAVOR OF THE UNITED STATES FOR COMMERCE, NAVIGATION, FISHERIES AND THE PRODUCTION OF POWER.

SPECIAL EXCEPTIONS FOR APN 335850 0830:

(PER FIDELITY NATIONAL TITLE INSURANCE COMPANY ALTA COMMITMENT NO. 611089657, DATED NOVEMBER 13, 2014 AT 08:00AM)

- NOT SURVEY RELATED.**
- NOT SURVEY RELATED.**
- NOTICE OF ADDITIONAL TAP OR CONNECTION CHARGES AND THE TERMS AND CONDITIONS THEREOF:
RECORDING DATE: DECEMBER 6, 1977
RECORDING NO.: 7712060812
- A DEED OF TRUST TO SECURE AN INDEBTEDNESS IN THE AMOUNT SHOWN BELOW, AMOUNT: \$1,312,500.00
DATED: FEBRUARY 14, 2008
TRUSTOR/GRANTOR: NICHOLAS J LOWE AND RACHEL D LOWE, HUSBAND AND WIFE, AS JOINT TENANTS
TRUSTEE: NICHOLAS J LOWE AND RACHEL D LOWE, HUSBAND AND WIFE, AS JOINT TENANTS
BENEFICIARY: COMMONEALTH MORTGAGE ELECTRONIC REGISTRATION SYSTEMS INC. AS NOMINEE FOR HOMEcomings FINANCIAL, LLC,
(F/K/A HOMEcomings FINANCIAL NETWORK, INC.)
RECORDING DATE: FEBRUARY 20, 2008
RECORDING NO.: 20080220001382
- A DEED OF TRUST TO SECURE AN INDEBTEDNESS IN THE AMOUNT SHOWN BELOW, AMOUNT: \$250,000.00
DATED: JANUARY 1, 2008
TRUSTOR/GRANTOR: NICHOLAS J LOWE AND RACHEL D LOWE, HUSBAND AND WIFE
TRUSTEE: TRUSTEE SERVICES INC.
BENEFICIARY: WATERMARK CREDIT UNION
RECORDING DATE: MARCH 12, 2013
RECORDING NO.: 20080312002013

THE DEED OF TRUST SET FORTH ABOVE IS PURPORTED TO BE A "CREDIT LINE" DEED OF TRUST. IT IS A REQUIREMENT THAT THE TRUSTOR/GRANTOR OF SAID DEED OF TRUST PROVIDE WRITTEN AUTHORIZATION TO CLOSE SAID CREDIT LINE ACCOUNT TO THE LENDER WHEN THE DEED OF TRUST IS BEING PAID OFF THROUGH THE COMPANY OR OTHER SETTLEMENT/ESCROW AGENT OR PROVIDE A SATISFACTORY SUBORDINATION OF THIS DEED OF TRUST TO THE PROPOSED DEED OF TRUST TO BE RECORDED AT CLOSING.

6. A TAX LIEN FOR THE AMOUNT SHOWN AND ANY OTHER AMOUNTS DUE, IN FAVOR OF THE UNITED STATES OF AMERICA, ASSESSED BY THE DISTRICT DIRECTOR OF INTERNAL REVENUE.

TAXPAYER: NICHOLAS & RACHEL LOWE
AMOUNT: \$92,205.07
RECORDING DATE: JANUARY 23, 2014
RECORDING NO.: 20140123000780

7. IN THE EVENT THAT THE LAND IS OCCUPIED OR INTENDED TO BE OCCUPIED BY THE OWNER AND A SPOUSE OR REGISTERED DOMESTIC PARTNER AS A HOMESTEAD, THE CONVEYANCE OR ENCUMBRANCE OF THE LAND MUST BE EXECUTED AND ACKNOWLEDGED BY BOTH SPOUSES OR BOTH REGISTERED DOMESTIC PARTNERS, PURSUANT TO RCW 6.13 WHICH NOW PROVIDES FOR AN AUTOMATIC HOMESTEAD ON SUCH LAND.

8. IN THE EVENT MATTERS ARE DISCOVERED DURING THE CLOSING PROCESS WHICH WOULD OTHERWISE BE INSURED BY THE COVERED RISKS INCLUDED IN THE POLICY, THE COMPANY MAY LIMIT OR DELETE INSURANCE PROVIDED BY THE AFFECTED COVERED RISK. IN SUCH EVENT, A SUPPLEMENTAL WILL BE ISSUED PRIOR TO CLOSING. GENERAL EXCEPTIONS A THROUGH K WILL NOT APPEAR IN THE ALTA HOMEOWNER'S POLICY.

9. THE COMPANY IS WILLING TO ISSUE AN EXTENDED COVERAGE LENDERS POLICY. GENERAL EXCEPTIONS A THROUGH K, INCLUSIVE, ARE HEREBY DELETED.

ALTA 22-06, ALTA 8.1 AND ALTA 9-06 ENDORSEMENTS WILL ISSUE WITH THE FORTHCOMING LENDERS POLICY.

10. EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO AS SET FORTH IN A DOCUMENT:
IN FAVOR OF: MERCER ISLAND SEWER DISTRICT
PURPOSE: SEWER PIPE LINE AND LINES
RECORDING DATE: AUGUST 5, 1964
RECORDING NO.: 5770430
AFFECTS: AS DESCRIBED IN SAID INSTRUMENT (5 FEET ON EITHER SIDE OF PIPE LINE AS INSTALLED)

11. EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO AS SET FORTH IN A DOCUMENT:
IN FAVOR OF: DRIVEWAY
RECORDING DATE: MARCH 12, 1966
RECORDING NO.: 5853933
AFFECTS: AS DESCRIBED IN SAID INSTRUMENT (PLOTTED)

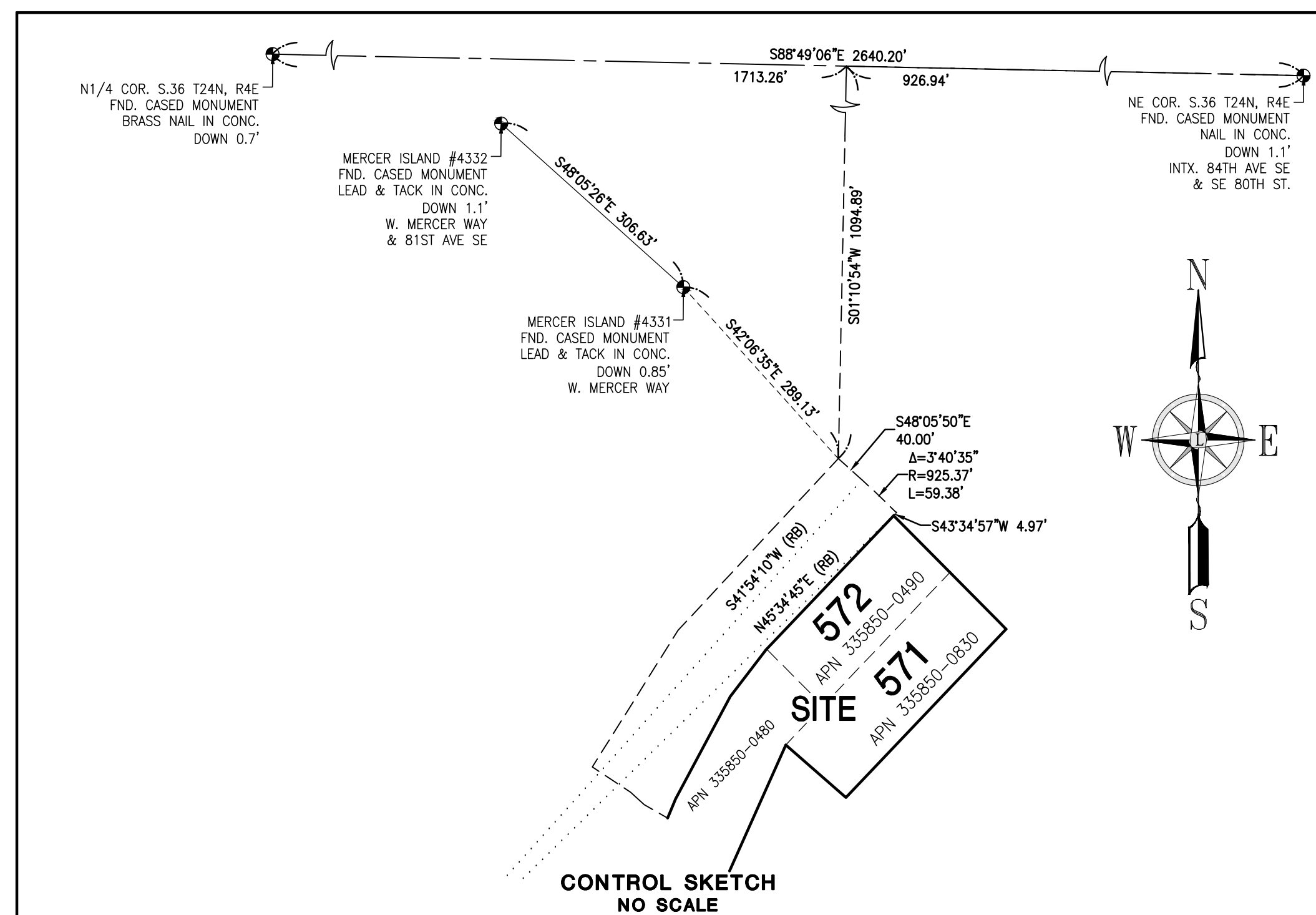
12. HOLD HARMLESS AGREEMENT AND THE TERMS AND CONDITIONS THEREOF:
RECORDING DATE: JANUARY 15, 1973
RECORDING NO.: 7301150426

13. RECIPROCAL EASEMENT AGREEMENT AND THE TERMS AND CONDITIONS THEREOF:
RECORDING DATE: DECEMBER 10, 1984
RECORDING NO.: 8412100629 (PLOTTED)

14. EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO AS SET FORTH IN A DOCUMENT:
PURPOSE: PUGET SOUND POWER & LIGHT COMPANY UNDERGROUND ELECTRIC TRANSMISSION AND/OR DISTRIBUTION SYSTEM
RECORDING DATE: AUGUST 15, 1986
RECORDING NO.: 8608151306
AFFECTS: AS DESCRIBED IN SAID INSTRUMENT (PLOTTED)

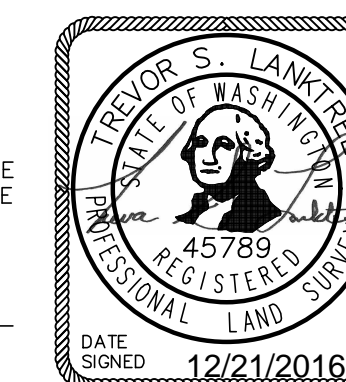
15. EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO AS SET FORTH IN A DOCUMENT:
IN FAVOR OF: WASHINGTON NATURAL GAS COMPANY
PURPOSE: GAS PIPE LINE OR PIPELINES
RECORDING DATE: SEPTEMBER 22, 1986
RECORDING NO.: 8609220782
AFFECTS: AS DESCRIBED IN SAID INSTRUMENT (PLOTTED)

16. SEWER EASEMENT AND MAINTENANCE AGREEMENT AND THE TERMS AND CONDITIONS THEREOF:
RECORDING DATE: OCTOBER 22, 1987
RECORDING NO.: 8710220226



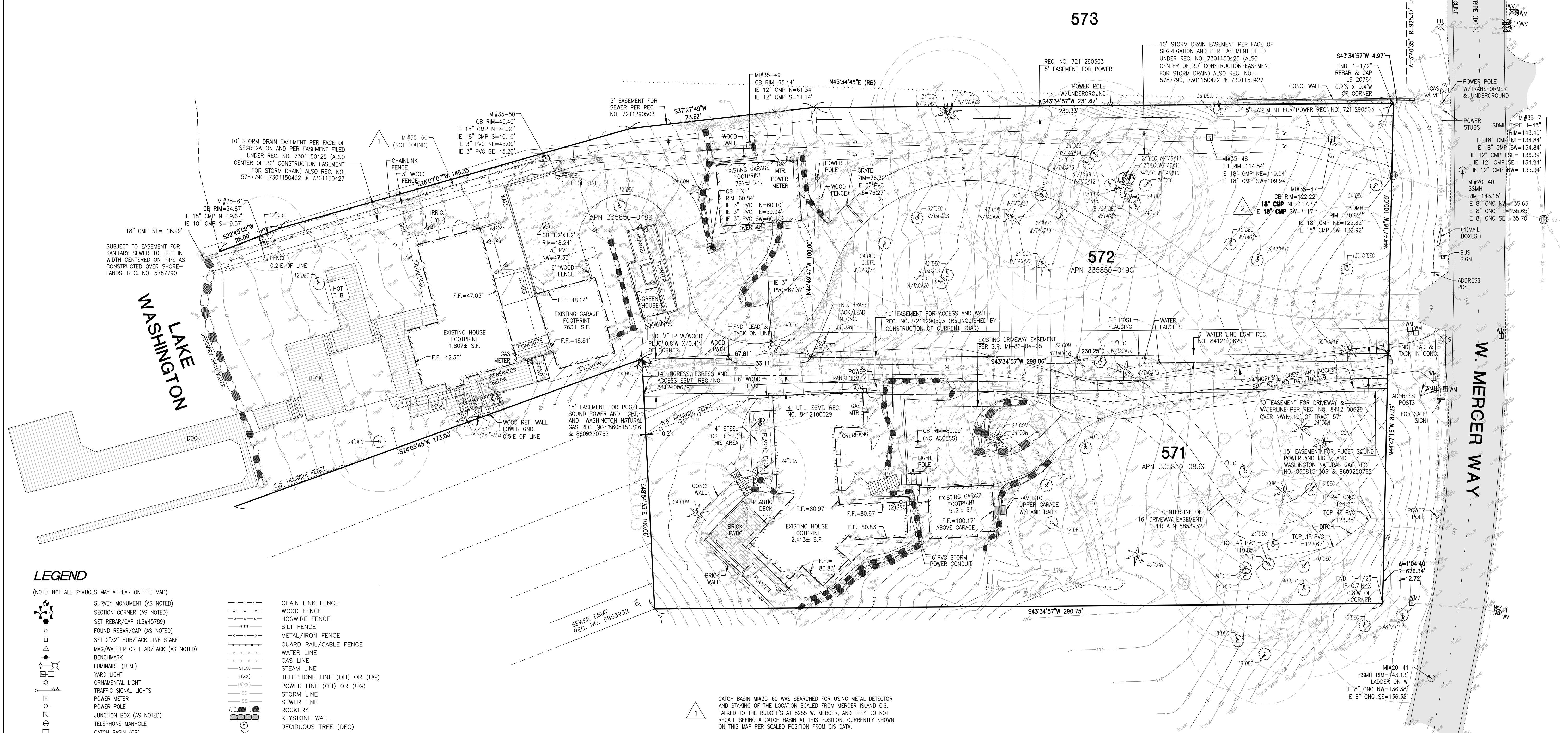
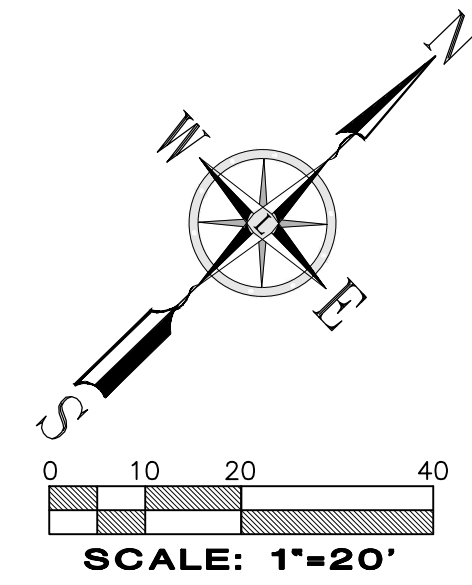
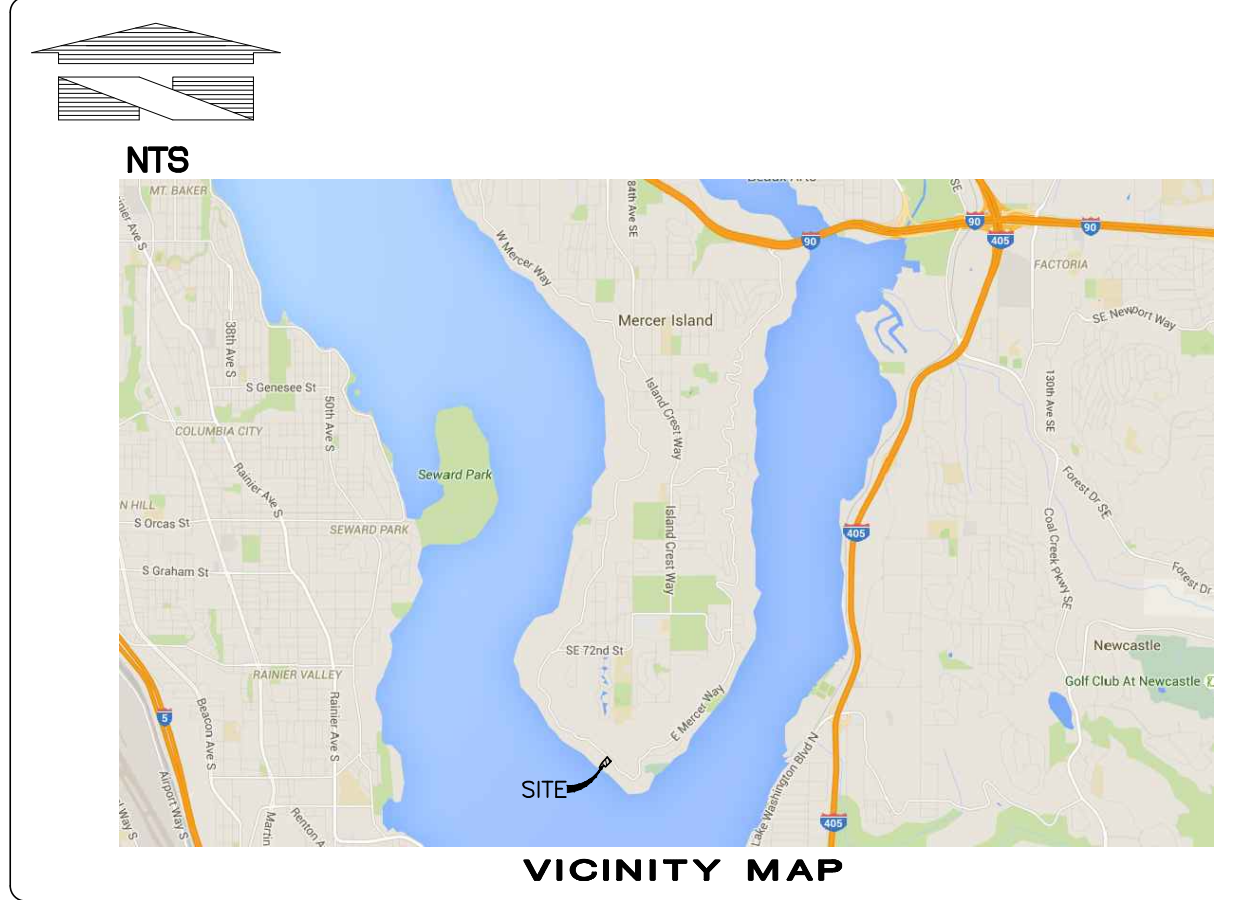
SURVEYOR'S CERTIFICATE:
THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY UPON WHICH IT IS BASED WERE MADE BY ME OR UNDER MY DIRECTION AND CORRECTLY REFLECTS THE CONDITIONS OF THIS SITE AS OF THE DATE OF THE FIELD SURVEY.

Trevor S. Lanktree
TREVOR S. LANKTREE P.L.S. DATE 12/21/2016
WASHINGTON REGISTRATION NO. 45789



| | | |
|--|---|---|
| Title: BOUNDARY AND TOPOGRAPHIC SURVEY PTNS. OF THE NE1/4 OF SEC. 36, TWP. 24 N., RGE 4 EAST, W. M. CITY OF MERCER ISLAND KING COUNTY STATE OF WASHINGTON | | |
| For: JAMES RUDOLF 500 108TH AVE NE, SUITE 905 BELLEVUE, WA 98004 | | |
| Scale: | Horizontal N/A | Vertical Vertical |
| Designed: <input checked="checked" type="checkbox"/> JAL | Drawn: <input checked="checked" type="checkbox"/> JAL | Checked: <input checked="checked" type="checkbox"/> JAL |
| Approved: <input checked="checked" type="checkbox"/> JAL | | Date: 10/14/15 |
| Job Number: 1958 | | Sheet: 1 of 2 |
| | | |
| File: P:\1958 Radulf West Mercer Way\Survey\Drawings\1958T001.dwg Date/TTime: Dec 21, 2016 12:27pm Scale: 1"=20' Itank: Xrefis: | | |

BOUNDARY AND TOPOGRAPHIC SURVEY



| | | | | |
|-----|----------|-----|------|-------|
| No. | Date | By | Chd. | Appr. |
| 1. | 12/21/16 | TSL | TSL | TSL |

SEARCHED FOR AND MOVED ADDITIONAL STORM STRUCTURES AND ADD. TOPO
Revision

| | |
|------------|--------|
| Job Number | 1958 |
| Sheet | 2 of 2 |

Title:
BOUNDARY AND TOPOGRAPHIC SURVEY
PTNS. OF THE NE1/4 OF SEC. 36,
TWP. 24 N., RGE 4 EAST, W. M.
CITY OF MERCER ISLAND
KING COUNTY STATE OF WASHINGTON

For:
JAMES RUDOLF
500 108TH AVE NE, SUITE 905
BELLEVUE, WA 98004

LANKTREE LAND SURVEYING, INC.
421 7th STREET N.E., AUBURN, WA 98002
PHONE: (253) 653-6423
FAX: (253) 793-1616
WWW.LANKTREELANDSURVEYING.COM

DATE SIGNED: 12/21/2016



01/18/19

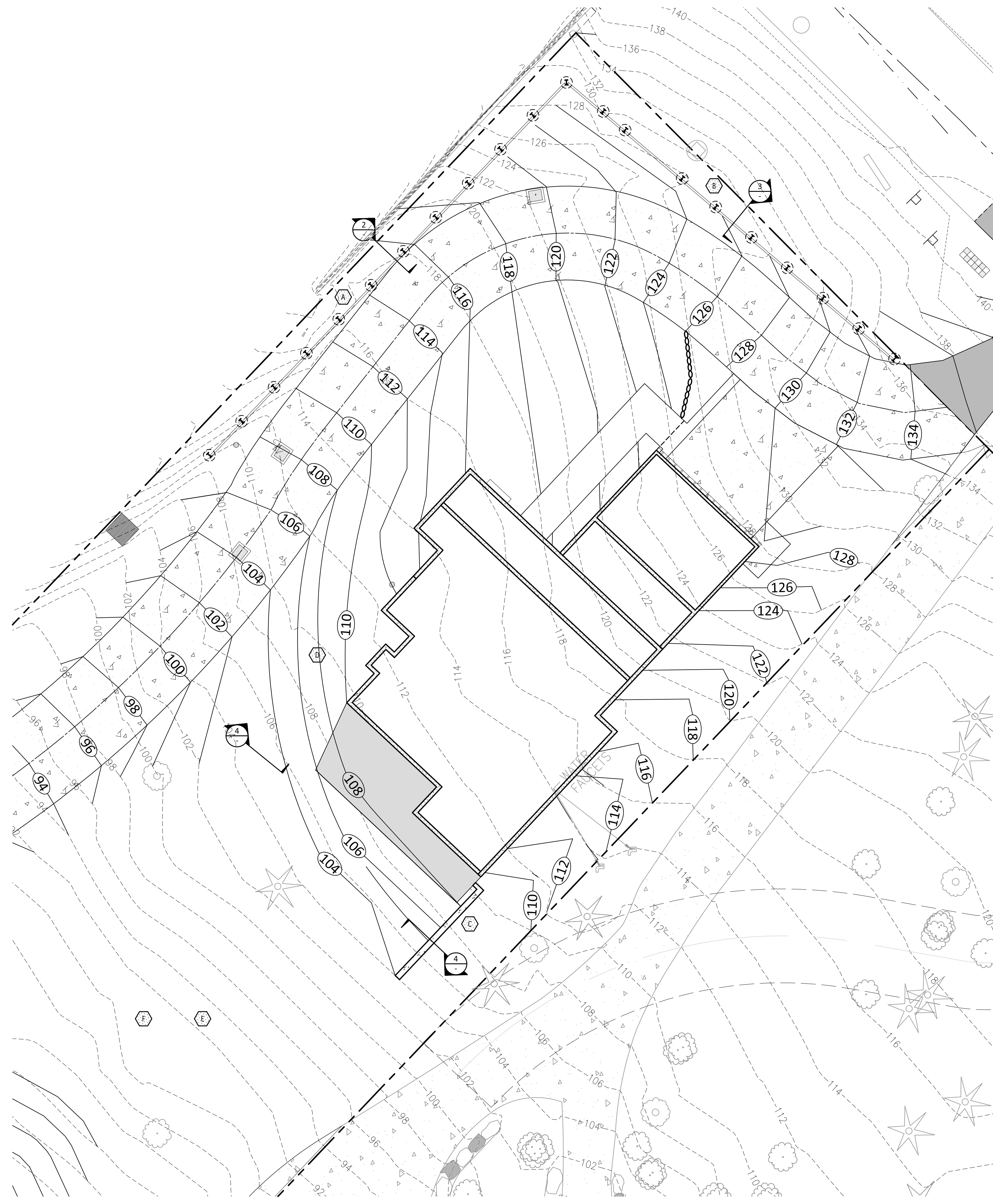
| MARK | DATE | DESCRIPTION |
|------|----------|--------------------|
| | 06/08/18 | PERMIT SUBMITTAL |
| | 01/18/19 | PERMIT RESUBMITTAL |

| | |
|---------|----------|
| DESIGN: | BTJ |
| DRAWN: | JEG |
| CHECK: | DMT |
| JOB NO: | 15227.20 |
| DATE: | 06/08/18 |

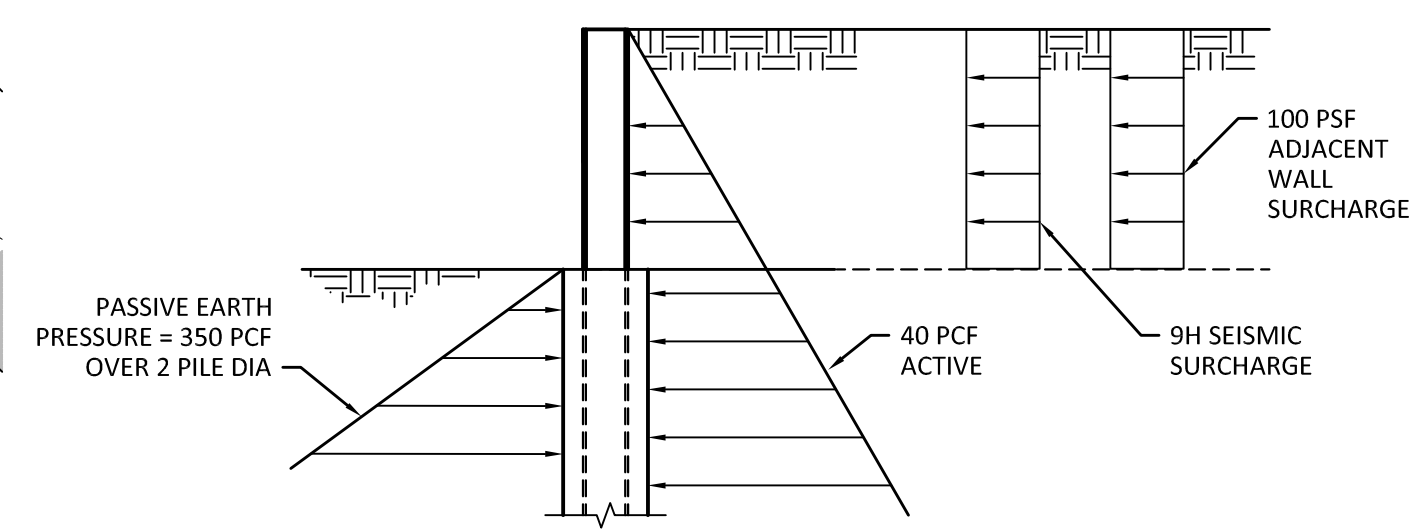
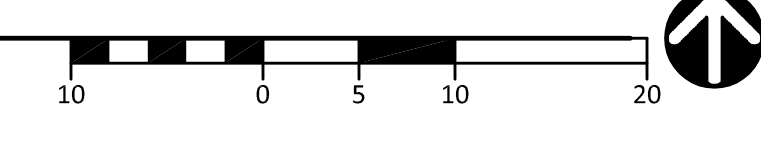
RUDOLF RESIDENCE
 8253 W MERCER WAY
 MERCER ISLAND, WA 98040
 SITE WALL KEY PLAN &
 EARTH PRESSURE DIAGRAMS

SHEET:

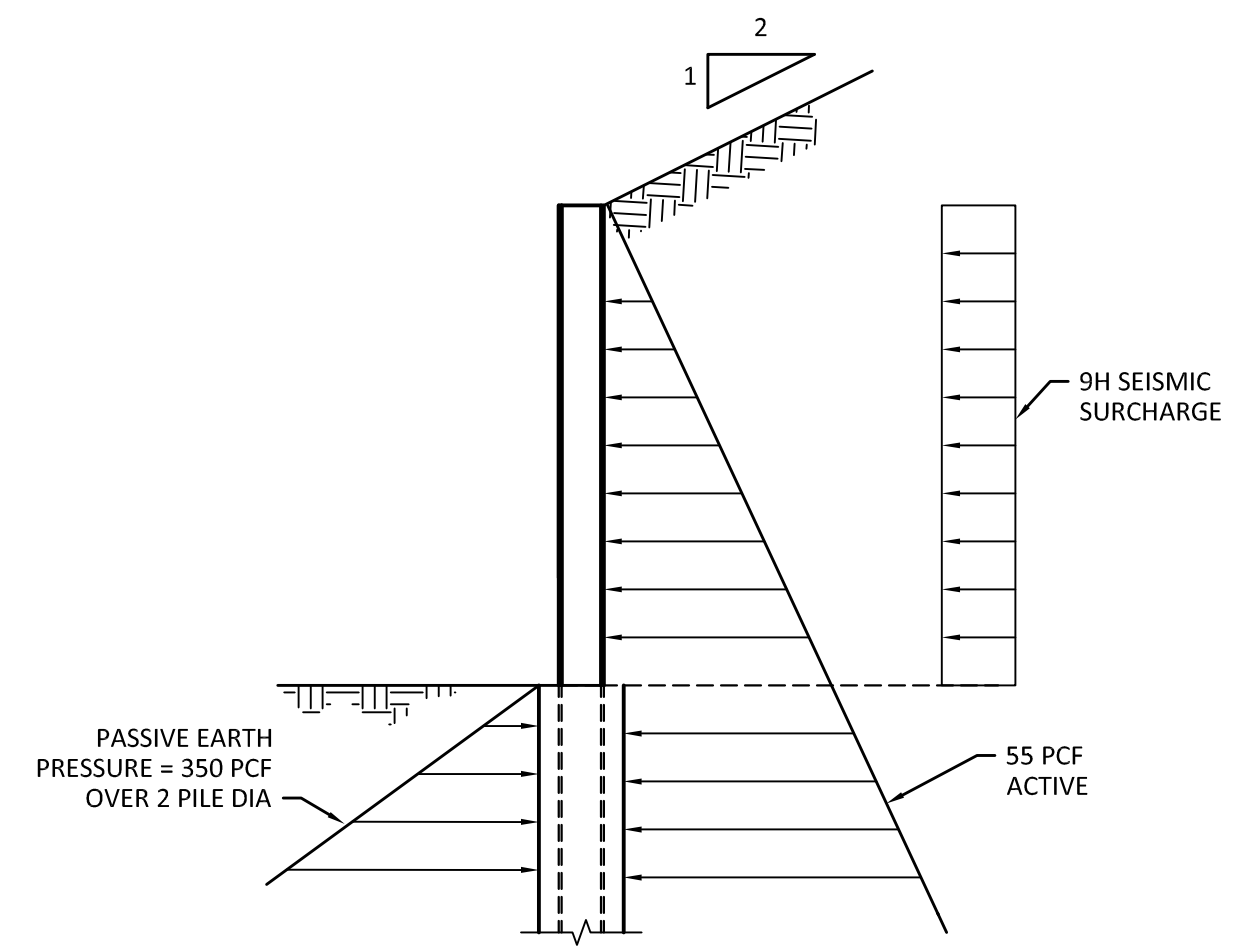
SW1.2



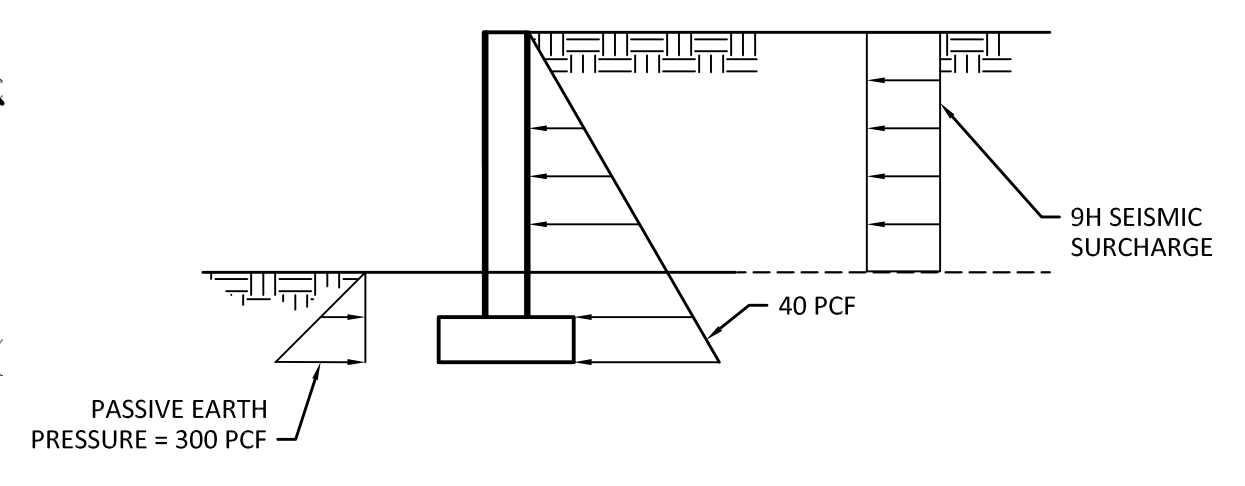
1 SITE WALL KEY PLAN
 SCALE: 1" = 10'



2 EARTH PRESSURE DIAGRAM (SOLDIER PILE)
 SCALE: NTS



3 EARTH PRESSURE DIAGRAM (SOLDIER PILE)
 SCALE: NTS



4 EARTH PRESSURE DIAGRAM (CONCRETE WALL)
 SCALE: NTS

| WALL SCHEDULE | | | |
|---------------|--------------|---------------------|---------------------|
| WALL | WALL TYPE | MAX RETAINED HEIGHT | PERMANENT/TEMPORARY |
| A | SOLDIER PILE | 6'-0" | PERMANENT |
| B | SOLDIER PILE | 6' | PERMANENT |
| C | CONCRETE | 6'-0" | PERMANENT |
| D | CONCRETE | 6'-0" | PERMANENT |



| MARK | DATE | DESCRIPTION |
|------|----------|--------------------|
| | 06/08/18 | PERMIT SUBMITTAL |
| | 07/18/19 | PERMIT RESUBMITTAL |

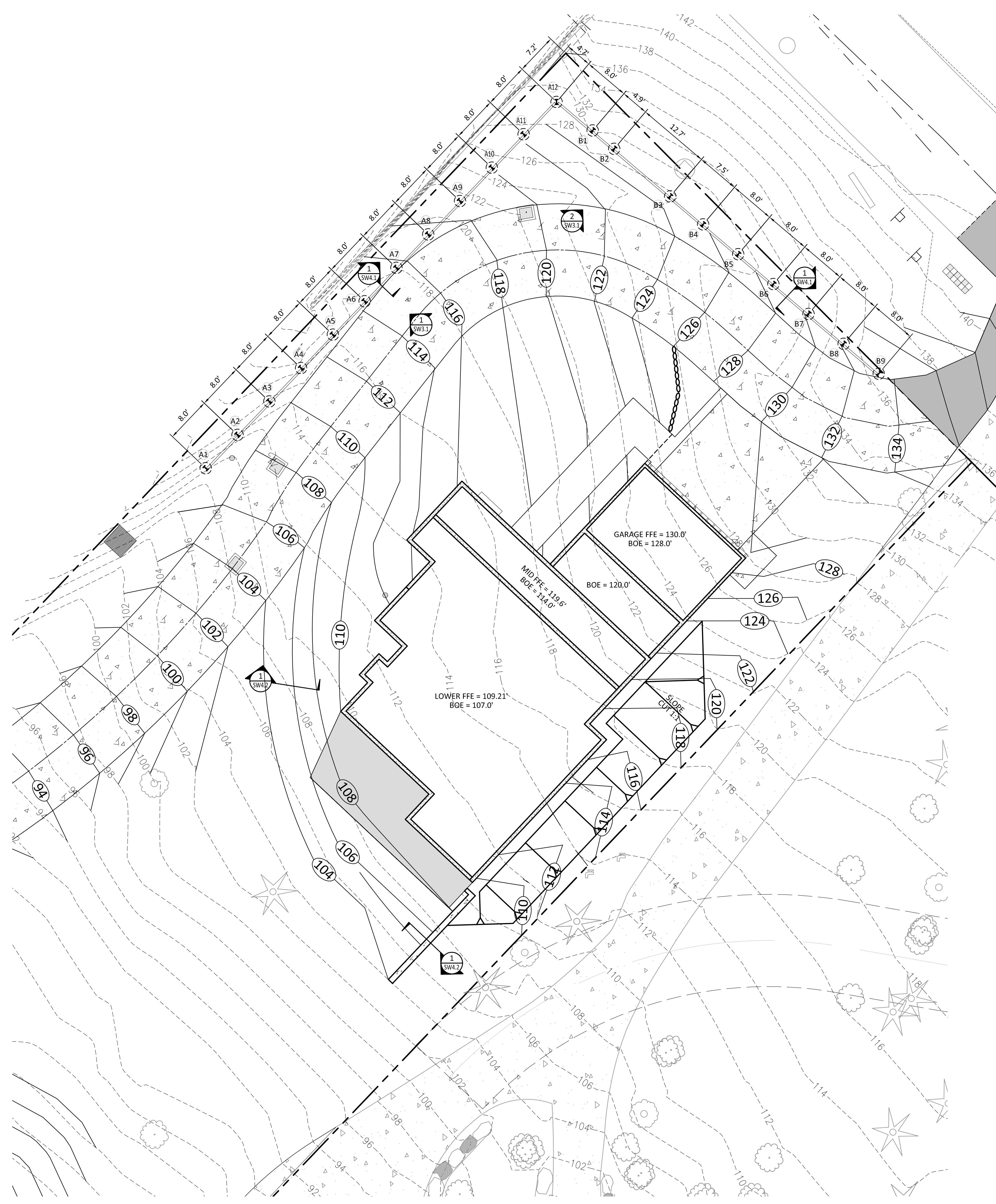
DESIGN: BTJ
 DRAWN: JEG
 CHECK: DMT
 JOB NO: 15227.20
 DATE: 06/08/18

RUDOLF RESIDENCE
 8253 W MERCER WAY
 MERCER ISLAND, WA 98040

SITE WALL PLAN

FILE NAME:

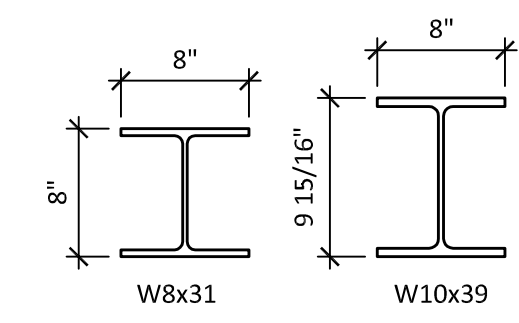
SHEET:
SW2.1



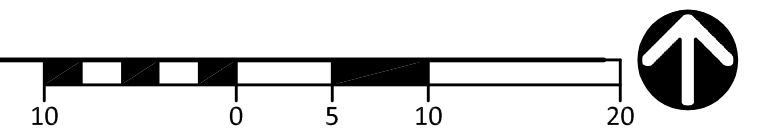
PLAN NOTE:
 1. REFER TO C3.1 FOR ADDITIONAL GRADING INFORMATION.

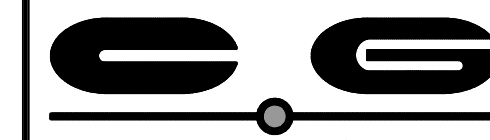
| CANTILEVERED SOLDIER PILE SCHEDULE (WALL A) | | | | | |
|---|--------|--------|--------|--------|--|
| PILE(S) | A1-A2 | A3-A7 | A8 | A9-A12 | |
| MIN PILE SHAFT DIA | 1'-6"Ø | 1'-6"Ø | 1'-6"Ø | 1'-6"Ø | |
| MAX RETAINED HT | 4'-0" | 6'-0" | 4'-0" | 6'-0" | |

| CANTILEVERED SOLDIER PILE SCHEDULE (WALL B) | | | | | |
|---|--------|--|--|--|--|
| PILE(S) | B1-B9 | | | | |
| MIN PILE SHAFT DIA | 1'-6"Ø | | | | |
| MAX RETAINED HT | 6'-0" | | | | |



- NOTES:
 1. CONTRACTOR TO FIELD VERIFY THAT THE MAX. RETAINED HEIGHT IS NOT EXCEEDED.
 2. CONTRACTOR TO PROVIDE SUFFICIENT HEIGHT ABOVE FINAL GRADE TO ALLOW FOR ADJACENT PILE LAGGING.
 3. REFER TO SHORING DRAWINGS FOR ADDITIONAL INFORMATION.
 4. REFER TO THE SHORING PROFILE FOR TOP & BOT. OF PILES.



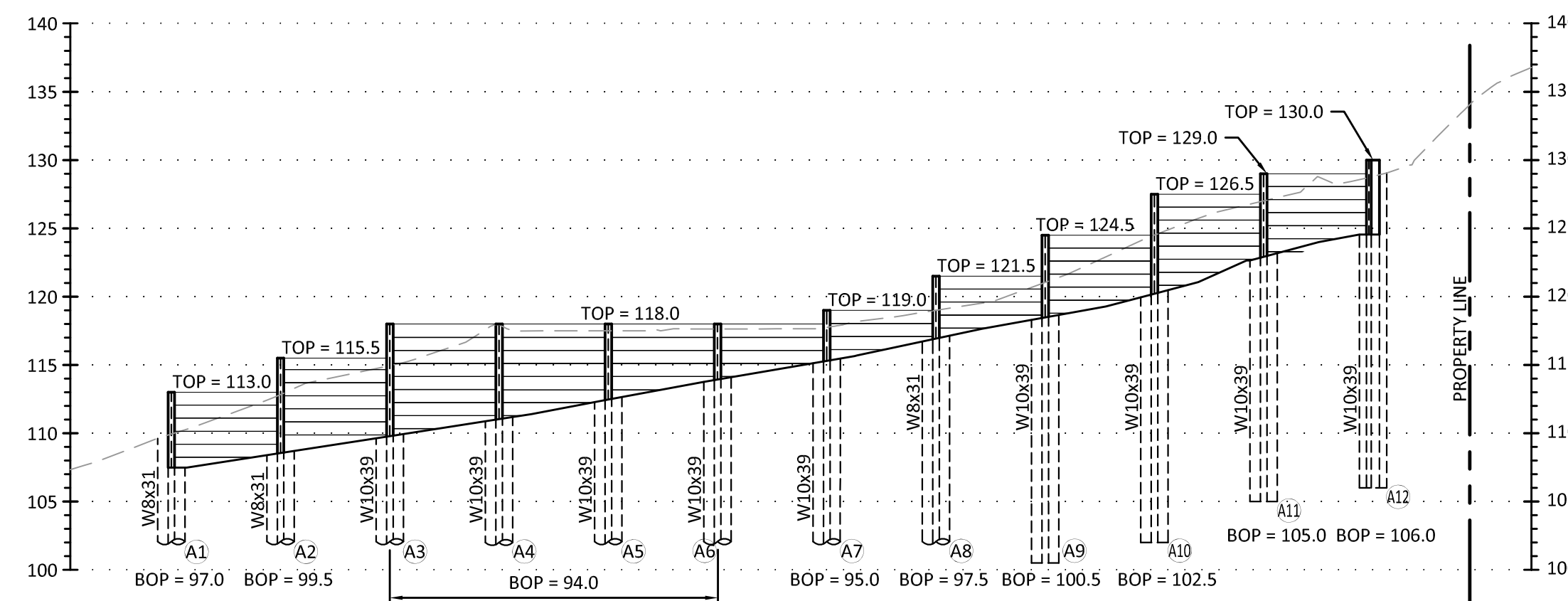


ENGINEERING

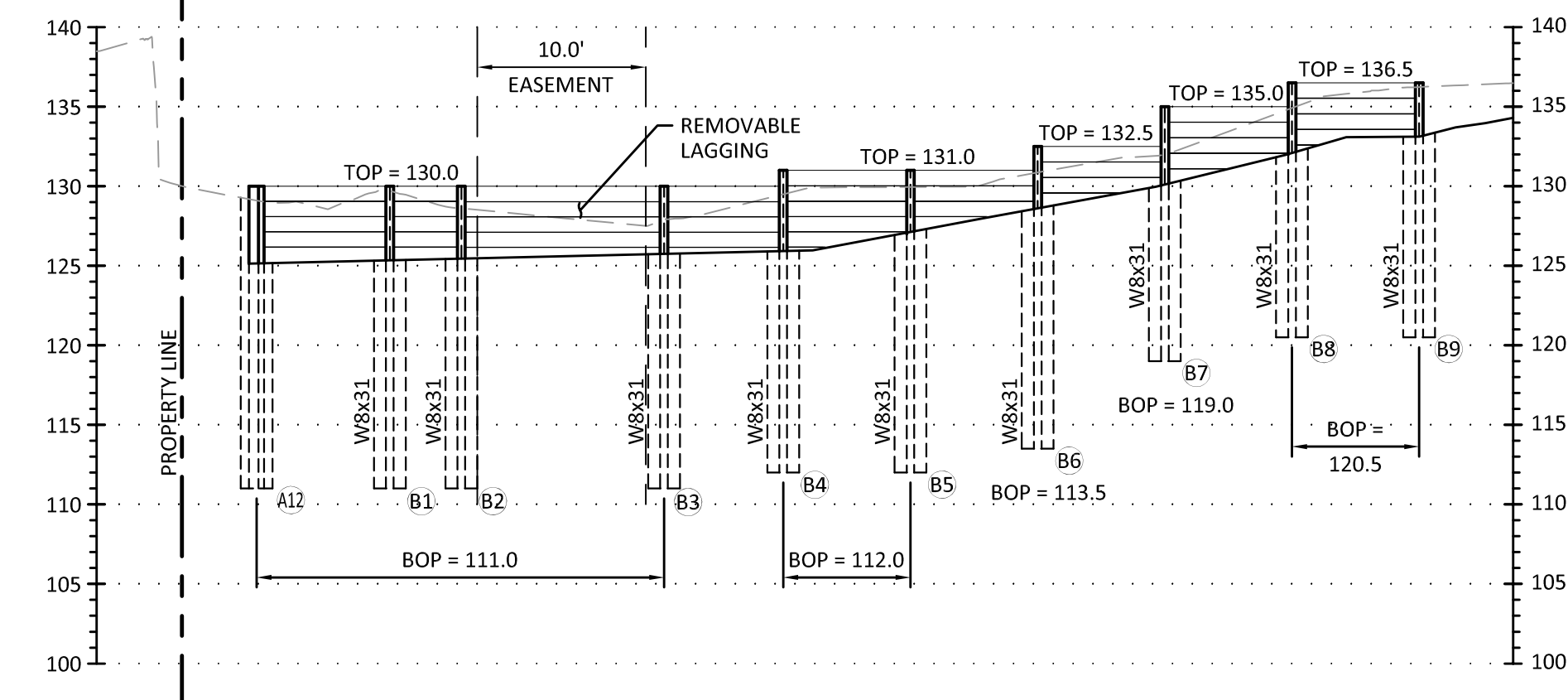
250 4TH AVE. S., SUITE 200
EDMONDS, WASHINGTON 98020
PHONE (425) 778-8500
FAX (425) 778-5536



01/18/19



1 WALL A PROFILE
SCALE: 1" = 10'



2 WALL B PROFILE
SCALE: 1" = 10'

| MARK | DATE | DESCRIPTION |
|------|----------|--------------------|
| | 06/08/18 | PERMIT SUBMITTAL |
| | 01/18/19 | PERMIT RESUBMITTAL |
| | | |
| | | |

DESIGN: BTJ
 DRAWN: JEG
 CHECK: DMT
 JOB NO: 15227.20
 DATE: 06/08/18

RUDOLF RESIDENCE
 8253 W MERCER WAY
 MERCER ISLAND, WA 98040

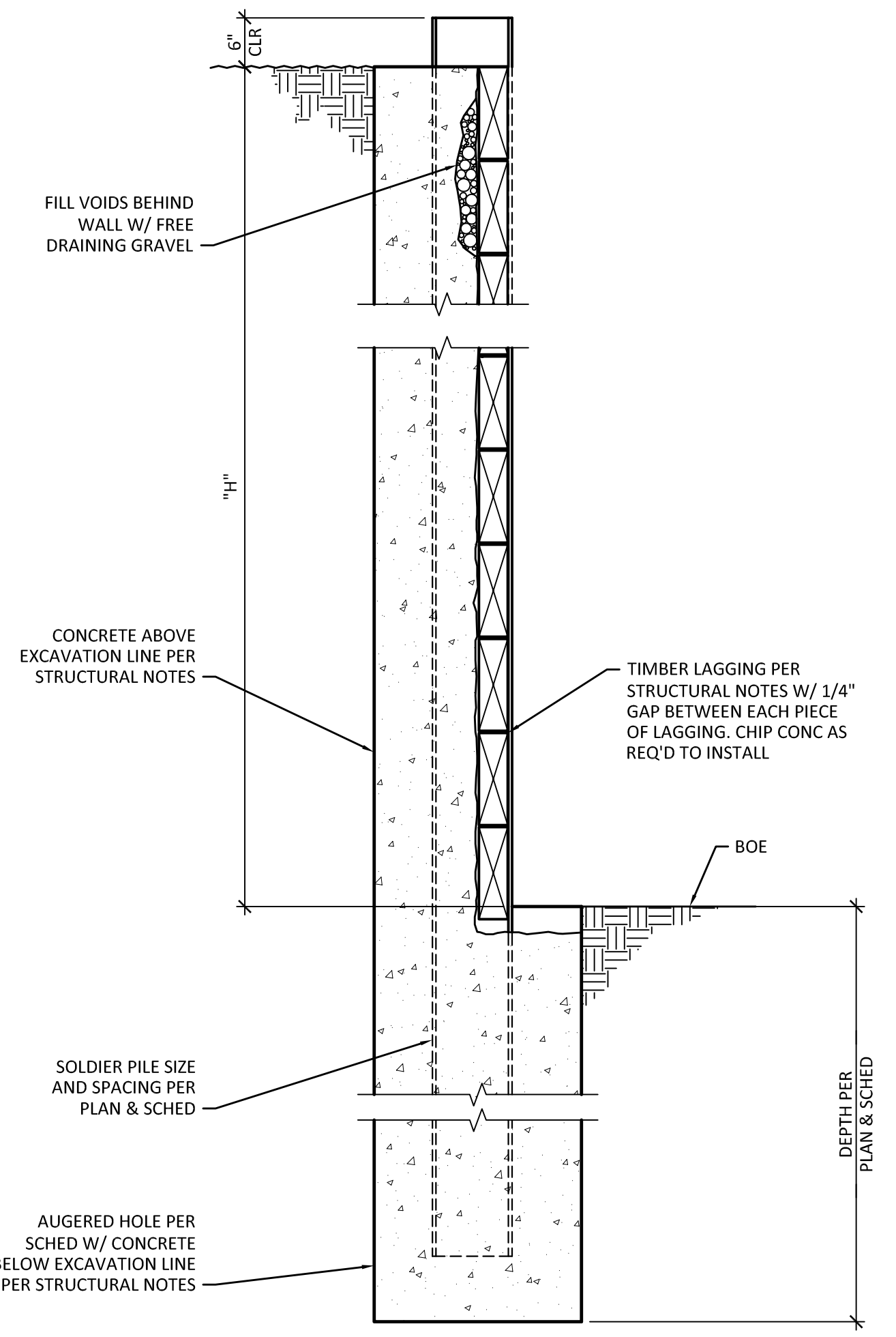
SITE WALL PROFILES

SHEET:

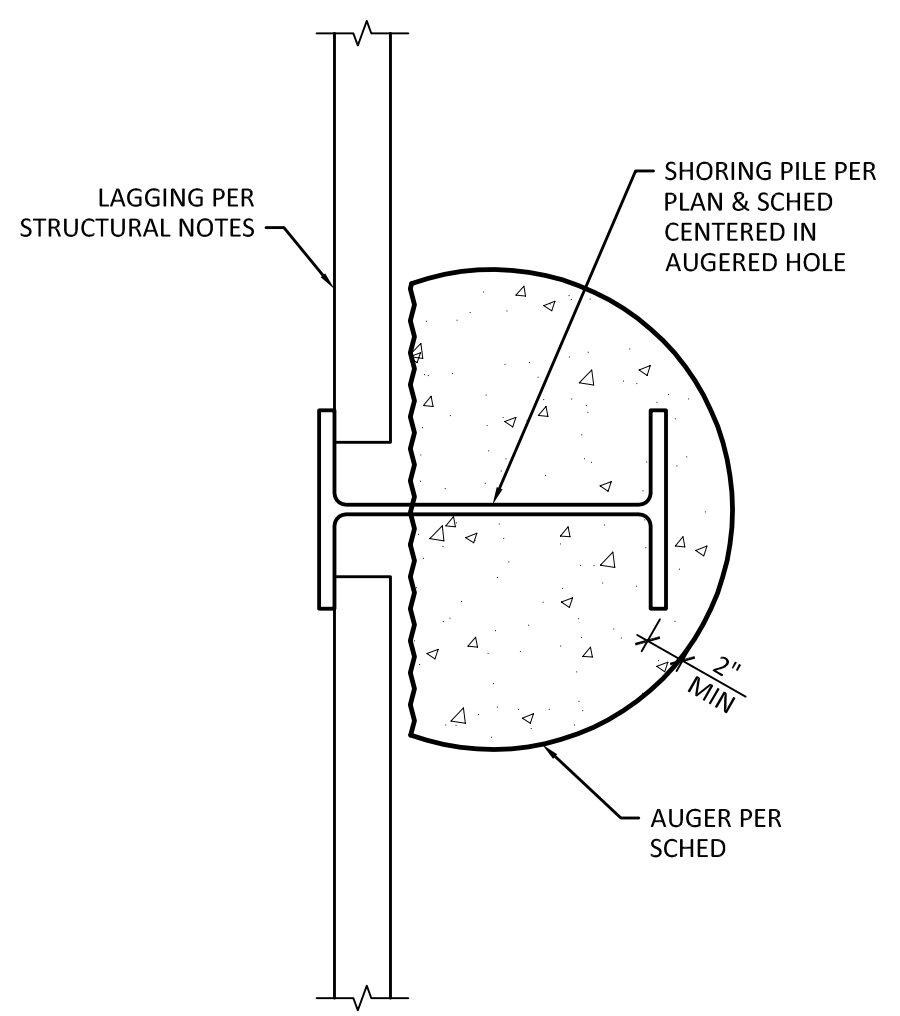
SW3.1



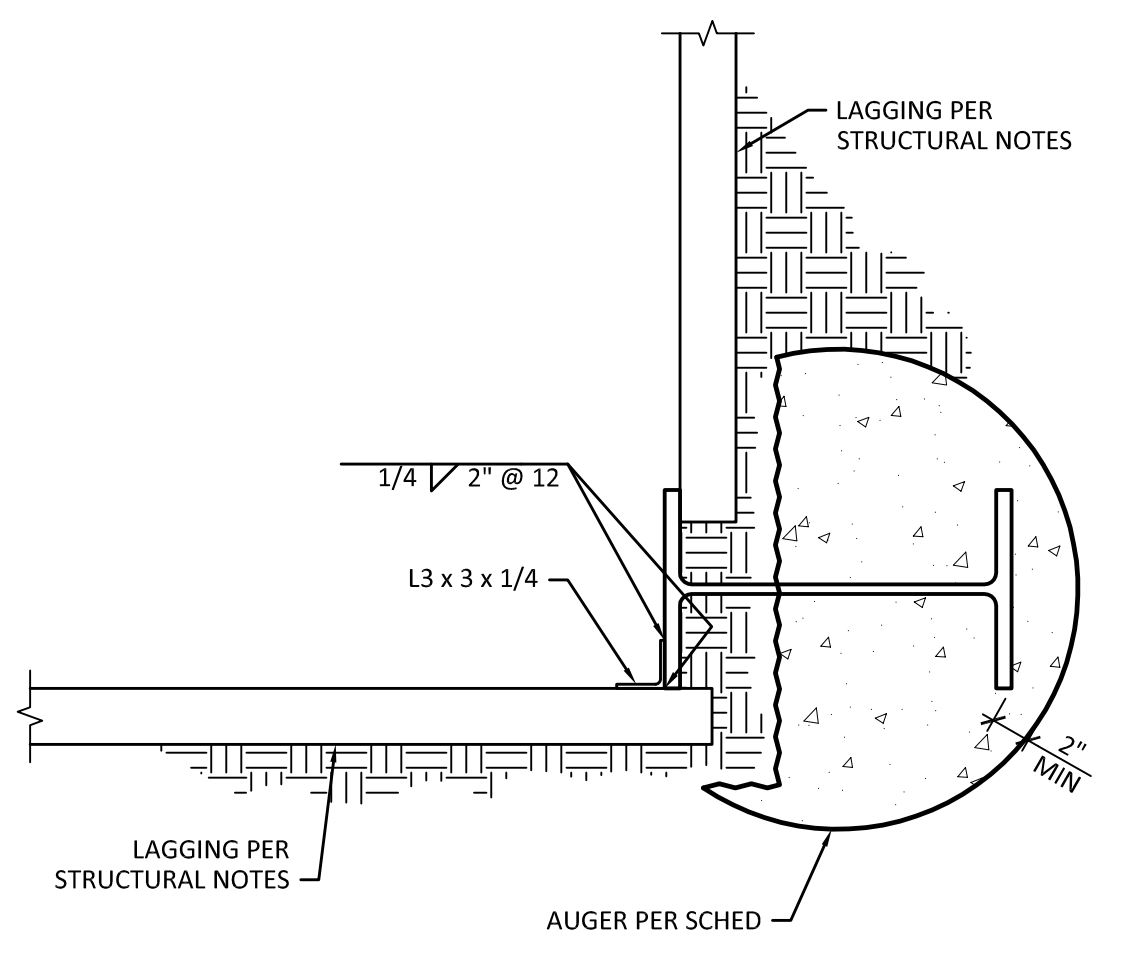
| | | |
|---------|----------|--------------------|
| MARK | DATE | DESCRIPTION |
| | 06/08/18 | PERMIT SUBMITTAL |
| | 07/18/19 | PERMIT RESUBMITTAL |
| DESIGN: | BTJ | |
| DRAWN: | JEG | |
| CHECK: | DMT | |
| JOB NO: | 15227.20 | |
| DATE: | 06/08/18 | |



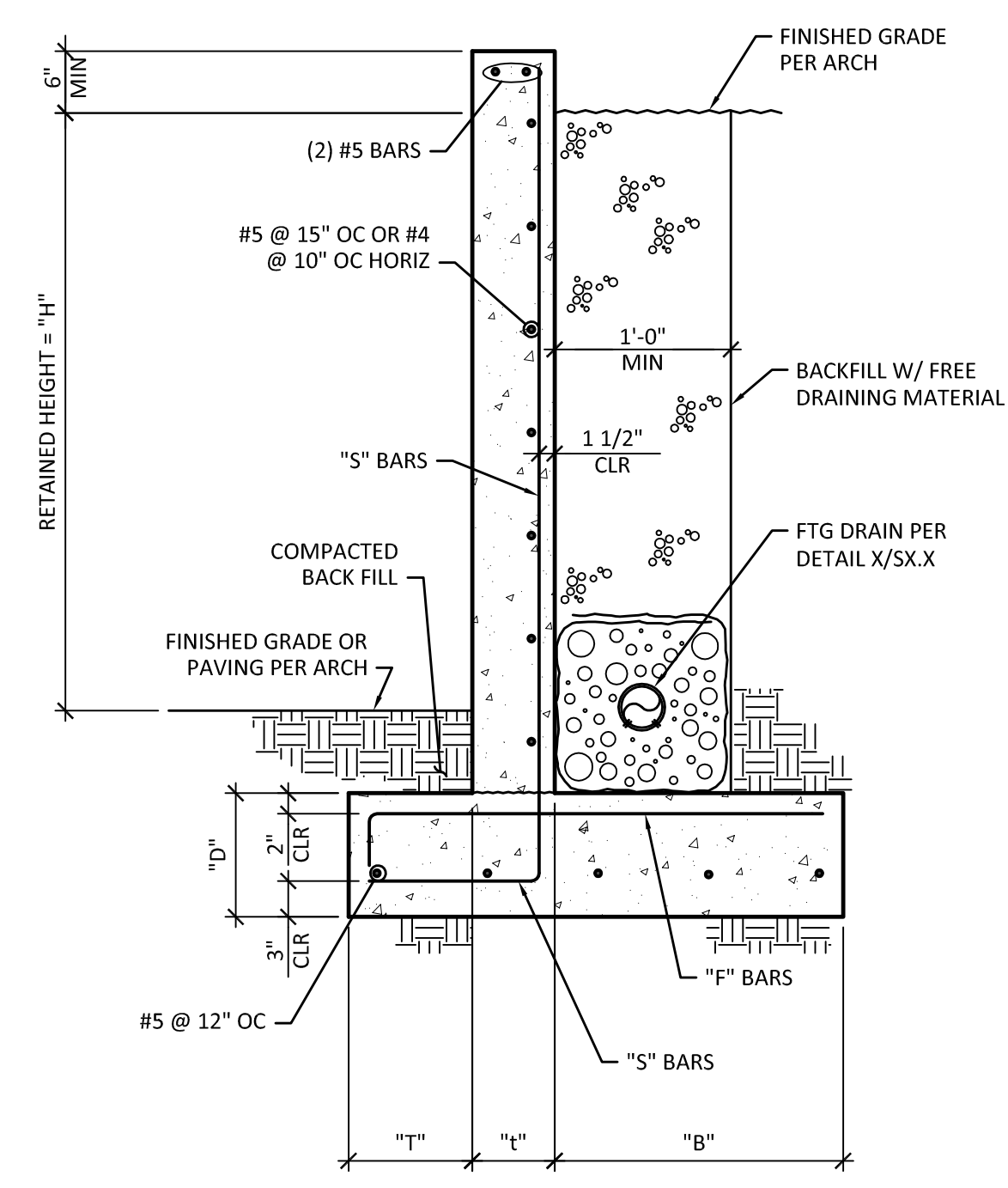
1 SECTION
 SCALE: 3/4" = 1'-0"



2 TYPICAL PILE PLAN
 SCALE: 1" = 1'-0"



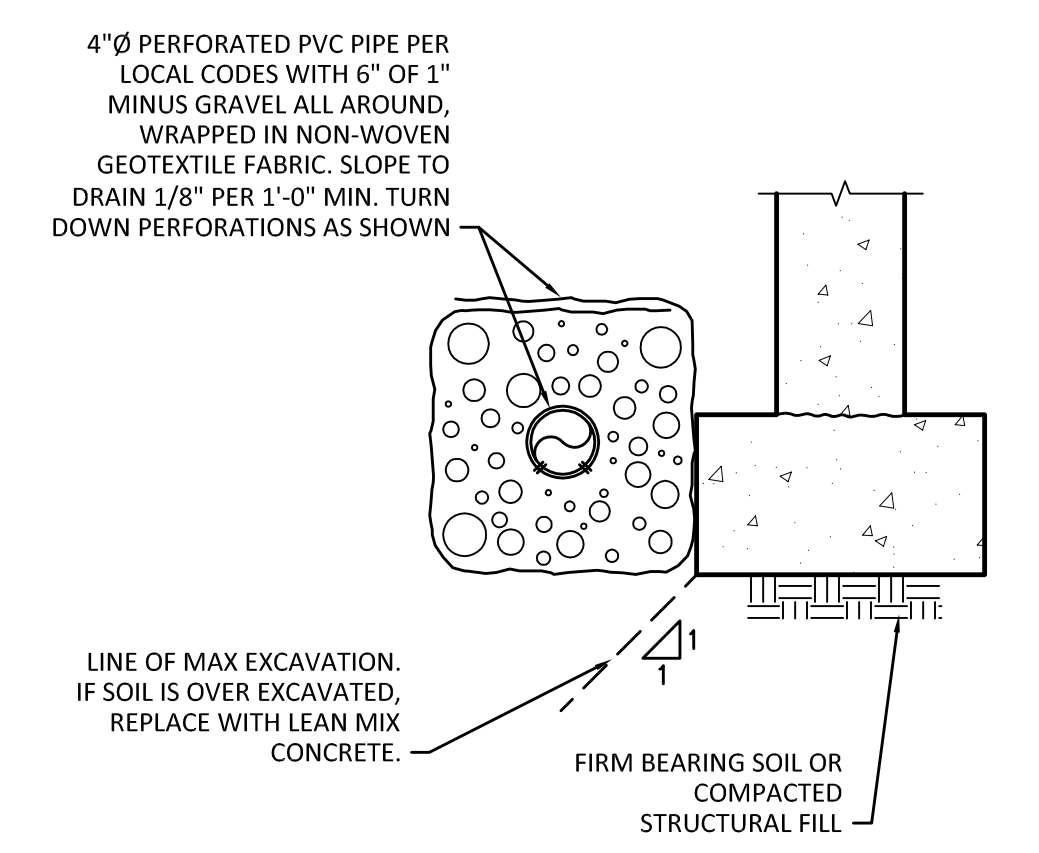
3 CORNER PILE DETAIL
 SCALE: 1" = 1'-0"



4 RETAINING WALL SECTION
 SCALE: 3/4" = 1'-0"

| WALL GEOMETRY | | WALL REINFORCING | |
|---------------|---------------------|------------------|----------|
| MAX "H" | "T" "B" "D" | "S" BARS | "F" BARS |
| 4'-0" | 1'-0" 1'-7" 8" | #4 @ 12" EDGE | #4 @ 18" |
| 6'-0" | 1'-3" 2'-10" 8" 12" | #4 @ 12" EDGE | #4 @ 18" |

NOTES:
 1. FOUNDATION SHALL BEAR ON UNDISTURBED NATIVE SOIL PER GEOTECHNICAL REPORT.
 2. ALTERNATE HOOK DIRECTION INTO FOOTING EVERY OTHER BAR.



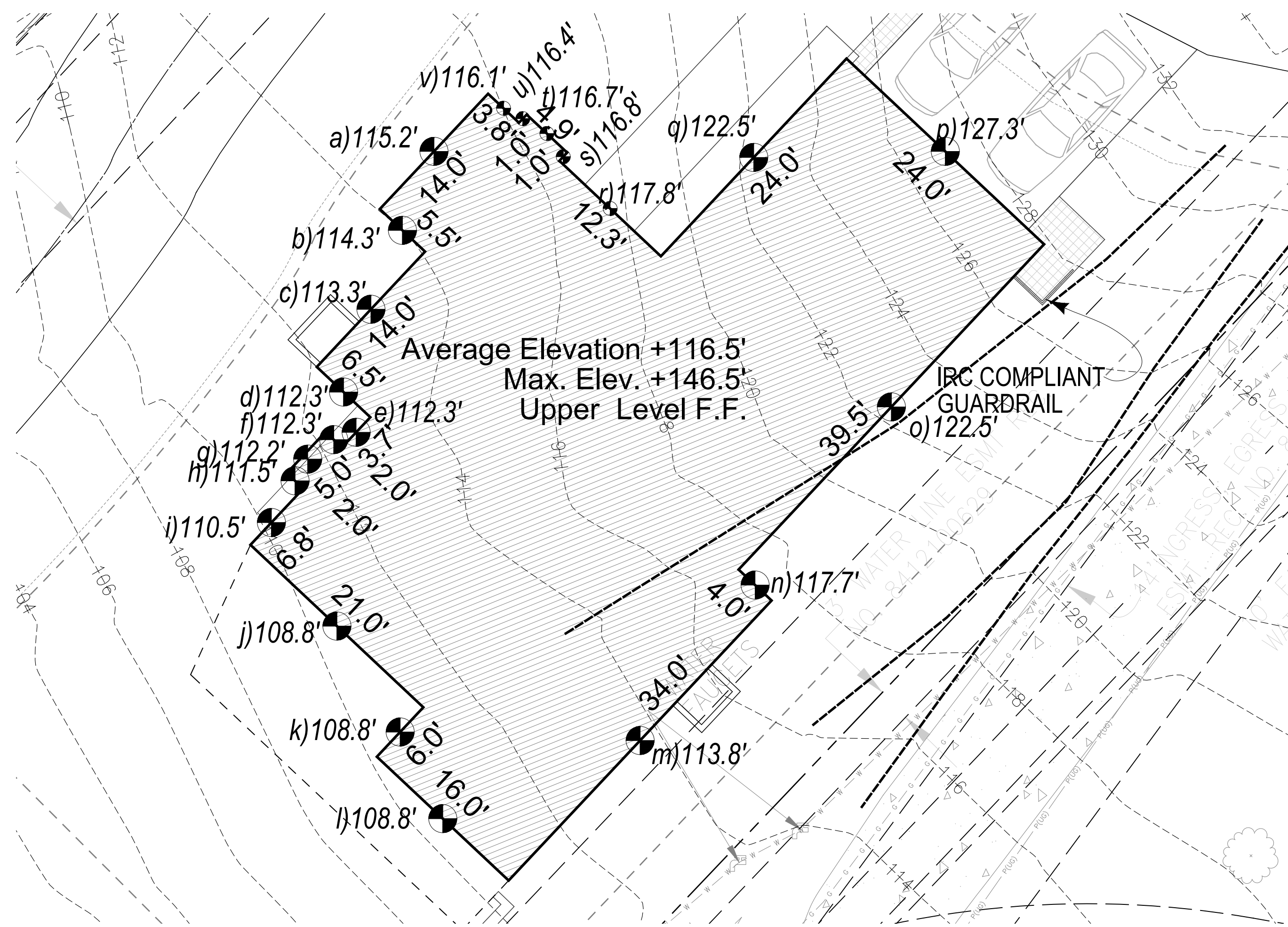
5 TYPICAL FOOTING DRAIN
 SCALE: 1" = 1'-0"

RUDOLF RESIDENCE
 8253 W MERCER WAY
 MERCER ISLAND, WA 98040

SITE WALL DETAILS

SHEET:

SW4.1



CALCULATION KEY

1/8" = 1'-0"



| Point | Wall Length | Mid Pt Elev. | Weighted Value |
|-------|-------------|--------------|----------------|
| a | 14.0 | 115.2 | 1612.8 |
| b | 5.5 | 114.3 | 628.7 |
| c | 14.0 | 113.3 | 1583.4 |
| d | 6.5 | 112.3 | 730.0 |
| e | 3.7 | 112.3 | 415.5 |
| f | 2.0 | 112.3 | 224.6 |
| g | 5.0 | 112.2 | 561.0 |
| h | 2.0 | 111.5 | 223.0 |
| i | 6.8 | 110.5 | 751.4 |
| j | 21.0 | 108.8 | 2284.8 |
| k | 6.0 | 108.8 | 652.8 |
| l | 16.0 | 108.8 | 1740.8 |
| m | 34.0 | 113.8 | 3869.2 |
| n | 4.0 | 117.7 | 470.8 |
| o | 39.5 | 122.5 | 4834.8 |
| p | 24.0 | 127.3 | 3055.2 |
| q | 24.0 | 122.5 | 2940.0 |
| r | 12.3 | 117.8 | 1448.9 |
| s | 1.0 | 116.8 | 116.8 |
| t | 4.9 | 116.7 | 571.8 |
| u | 1.0 | 116.4 | 116.4 |
| v | 3.8 | 116.1 | 441.2 |

Avg. Height = $29280.6 / 251.0 = 116.66'$
 Max. Hght. = $116.66 + 30.0 = 146.66'$

| LOT COVERAGE | |
|-------------------------------|----------------|
| ROAD | 5157 SF |
| DRIVEWAY | 391 SF |
| BUILDING | 2495 SF |
| TOTAL | 8043 SF |
| | |
| LOT AREA 23,034 SF | |
| LOT COVERAGE | 34.92% |
| | |
| ANCILLARY COVERAGE | |
| DECKS/RETAINING WALLS & WALKS | 642 SF |
| ANCILLARY IMPERVIOUS | 2.89% |

Areas Revised Per New Road Path, Ancillary Impervious Calculations Added.



SITE PLAN

1" = 20'



Note Added Per City
 PER MICC 19.02.020(F)(3)(D) TO REMOVE NOXIOUS WEEDS. ("DEVELOPMENT PROPOSALS FOR A NEW SINGLE-FAMILY HOME SHALL REMOVE JAPANESE KNOTWEED (POLYGONUM CUSPIDATUM) AND REGULATED CLASS A, REGULATED CLASS B, AND REGULATED CLASS C WEEDS IDENTIFIED ON THE KING COUNTY NOXIOUS WEEDS LIST, AS AMENDED, FROM REQUIRED LANDSCAPING AREAS ESTABLISHED PURSUANT TO SUBSECTION (F)(3)(A) OF THIS SECTION. NEW LANDSCAPING ASSOCIATED WITH NEW SINGLE-FAMILY HOME SHALL NOT INCORPORATE ANY WEEDS IDENTIFIED ON THE KING COUNTY NOXIOUS WEED LIST, AS AMENDED. PROVIDED, THAT REMOVAL SHALL NOT BE REQUIRED IF THE REMOVAL WILL RESULT IN INCREASED SLOPE INSTABILITY OR RISK OF LANDSLIDE OR EROSION.")

Note Added Per City
 AS PER MICC 19.07.060(D)(1)(D) BECAUSE THE DEVELOPMENT OF A GEOLOGIC HAZARD AREA IS PROPOSED ALL DISTURBED AREAS OUTSIDE OF BUILDING FOOTPRINTS AND INSTALLATION OF ALL IMPERVIOUS SURFACES BE LANDSCAPED.

Note Added Per City
 BUILDING PAD TO BE DEVELOPED IN A MANNER CONSISTENT WITH PROVISIONS OF MICC 19.09.090.

CODES:

- PLANS TO COMPLY WITH 2015 INTERNATIONAL RESIDENTIAL CODE (IRC), AND WASHINGTON STATE AMMENDMENTS. ALL APPLICABLE CODES TO BE FOLLOWED.
- 2015 INTERNATIONAL RESIDENTIAL BUILDING CODE (IRC)
 - 2015 INTERNATIONAL BUILDING CODE (IBC)
 - 2015 WASHINGTON STATE ENERGY CODE WAC 51-11 (WSEC)
 - MINIMUM DESIGN LOADS FO BUILDINGS AND OTHER STRUCTURES, ASCE 7-10 (ASCE)
 - 2015 SPECIAL DESIGN PROVISIONS FOR WIND AND SEISMIC (SDPWS)
 - MERCER ISLAND CITY CODE (MICC)

BUILDING

OCCUPANCY: R-3
 CONSTRUCTION TYPE: V-5
 ZONING: R-15 SINGLE FAMILY
 SETBACKS: FRONT 20'
 REAR 25'
 SIDE TOTAL 15'; 5'MIN.

| | |
|------------------------|----------|
| MAIN LEVEL FLOOR AREA: | 1,669 SF |
| MID LEVEL FLOOR ARE | 1,898 SF |
| LOWER LEVEL FLOOR AREA | 1,487 SF |
| TOTAL FLOOR AREA | 5,054 SF |
| GARAGE AREA | 576 SF |

FIRE

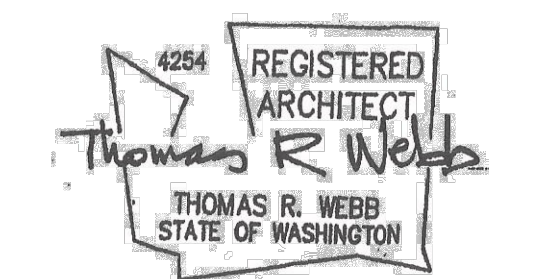
COMPLY WITH CURRENT EDITION OF NFPA 13, NFPA 13D, AND NFPA 13R; MERCER ISLAND BUILDING AND FIRE CODE. SEE MUNICIPAL CODE TITLE 17.

TR Webb Homes

Tom Webb, Architect
 10303- 14th Avenue NW, Seattle, WA 98177
 TomW@KDW.net / (206) 390-1800



1628 46th Street SE, Everett, WA 98203
 point_of_vision@comcast.net
 (425) 772-8207



New Residence For:
James & Jessica Rudolf
 8253 West Mercer Way
 Mercer Island, Washington 98040

| ISSUANCE | PERMIT SET |
|--|------------|
| 6-11-18 Retaining Walls Removed For Tree Retention, Lot Coverage, Various Notes Per City | 5/15/18 |
| 11-12-18 Adjustments Per City Comments | |
| 3-31-19 Building Pad Extents Added | |

| PROJECT INFORMATION | |
|---------------------|---------|
| PROJECT NO: | POV1740 |
| PROJECT MANAGER: | TW |
| DRAWN BY: | BB |

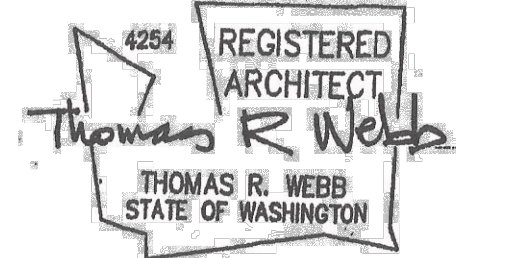
Site Plan, ABE Calcs & Project Information

SHEET NO

L:\pov-H\24\H\1740 Rudolf Residence\POV1740 A1 Site.dwg, 3/31/2019 3:11:01 PM, Dell, Point Of Vision 2017



1628 46th Street SE, Everett, WA 98203
point_of_vision@comcast.net
(425) 772-8207



New Residence For:
James & Jessica Rudolf
8253 West Mercer Way
Mercer Island, Washington 98040

PROJECT INFORMATION table with columns: PROJECT NO., PROJECT MANAGER, DRAWN BY.

CITY OF MERCER ISLAND

DEVELOPMENT SERVICES GROUP
9611 SE 36TH STREET | MERCER ISLAND, WA 98040
PHONE: 206.275.7605 | www.mercer.gov
Inspection Requests: Online: www.MyBuildingPermits.com VM: 206.275.7730



2015 WSEC & IRC Ventilation Worksheet (Effective July 1, 2016)

INFORMATION IN THESE WORKSHEETS MUST BE INCLUDED IN THE CONSTRUCTION DOCUMENTS
This set of worksheets has been developed to assist permit applicants with documenting compliance with the 2015 Washington State Energy Code. The following worksheets provide much of the required documentation for plan review. The details, systems, and ratings noted here must also be shown on the drawings.

Table for Prescriptive Energy Code Compliance for Climate Zone Marine 4. Columns include Component, Fenestration, Ceiling, Vented, Wood Framed, Mass Wall, Below-Grade Wall, Framed Floor, Slab, and R-Value & Depth.

Whole House Ventilation (Prescriptive) section with instructions and a table for Whole House Ventilation Method options.

Source Specific Exhaust Ventilation & Fan Efficiency section with instructions and a table for Minimum Source Specific Ventilation Capacity Requirements.

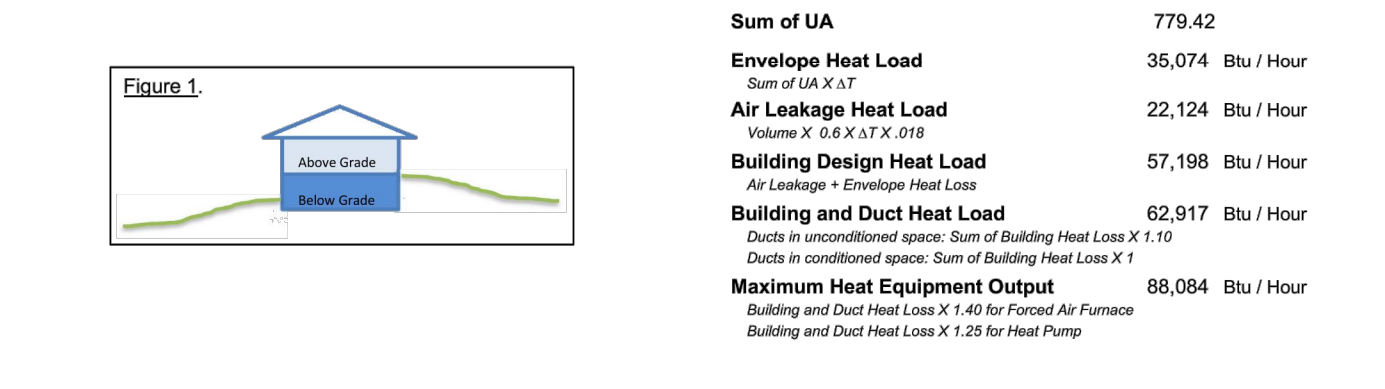
Energy Efficiency Credits section with instructions and a table for credit requirements based on dwelling unit type and square footage.

2015 WSEC - Table R406.2 - circle the options that you will be using for this project

Table for 2015 WSEC - Table R406.2 - Continued. Columns include OPTION, DESCRIPTION, and CREDIT(S). Contains options for efficient building envelope, air leakage control, and HVAC equipment.

Simple Heating System Size: Washington State
This heating system sizing calculator is based on the Prescriptive Requirements of the 2015 Washington State Energy Code (WSEC) and ACCA Manual J and S. This calculator will calculate heating loads only. ACCA procedures for sizing cooling systems should be used to determine cooling loads.

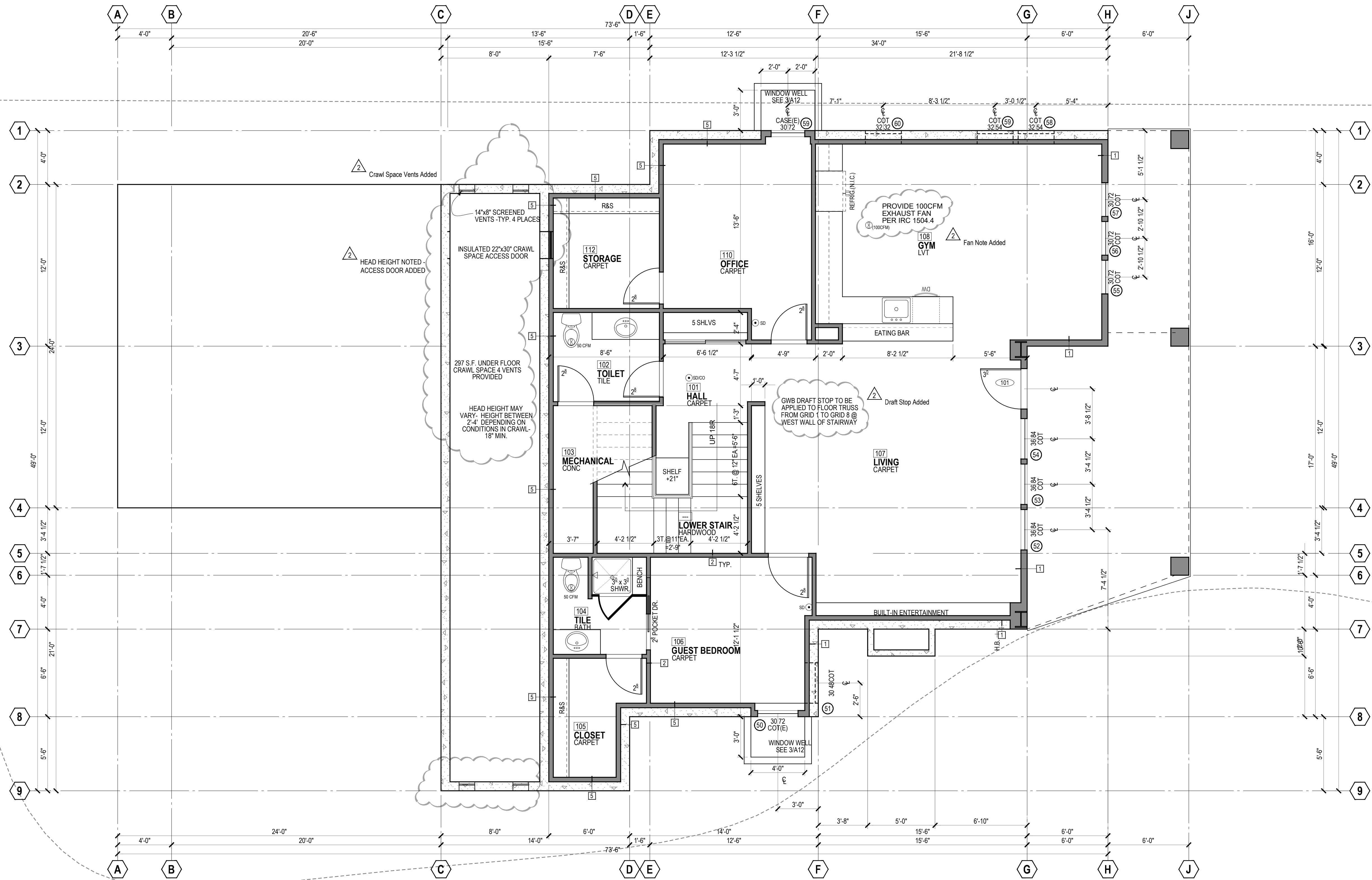
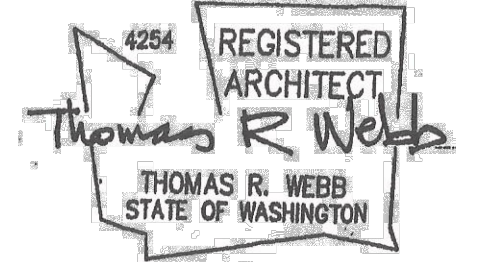
Interactive heating system size calculator form with dropdown menus, input fields, and calculation results for design temperature, area of building, glazing and doors, skylights, insulation, floors, below grade walls, slab below grade, and duct leakage coefficient.



WINDOW SCHEDULE table with columns: WDW #, WIDTH, Height, AREA(SF), WDW TYPE, HEAD HEIGHT, UValue, UA, DETAILS, and Remarks. Lists various window types for cottages and picture windows.

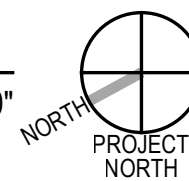
EXTERIOR DOOR SCHEDULE table with columns: DR#, WIDTH, Height, AREA(SF), WDW TYPE, HEAD HEIGHT, UValue, UA, DETAILS, and Remarks. Lists Marvin door and slider options.

SUM OF AREA AND UA AREA WEIGHTED U = UA / AREA
1018.25 296.88
0.29



LOWER LEVEL FLOOR PLAN

LIVING 1487 S.F. 1/4" = 1'-0"



WALL TYPES

- 1 2x6 @ 16" O.C. STUD WALL & SHEATHING PER STRUCTURAL - R-21 BATT INSULATION W/ VISQUEEN VAPOR BARRIER & 1/2" GWB ON INTERIOR SIDE
- 2 2x4 @ 16" O.C. STUD WALL W/ 1/2" GWB EACH SIDE - TYPICAL @ ALL INTERIOR WALLS U.N.O.
- 3 2x4 @ 16" O.C. STUD WALL & SHEATHING PER STRUCTURAL - 1/2" GWB ON INTERIOR SIDE.
- 4 2x6 @ 16" O.C. STUD WALL & SHEATHING PER STRUCTURAL - R-21 BATT INSULATION W/ 5/8" TYPE "X" ON COLD SIDE TO UNDERSIDE OF ROOF SHEATHING - W/ VISQUEEN VAPOR BARRIER & 1/2" GWB ON INTERIOR SIDE
- 5 CONCRETE FOUNDATION WALL PER STRUCTURAL - 2x4 @ 16" O.C. FURRING - R-21 BATT INSULATION - 1/2" GWB
- 6 2x6 @ 16" O.C. STUD WALL & SHEATHING PER STRUCTURAL - R-21 BATT INSULATION - 1/2" GWB ON COLD SIDE W/ VISQUEEN VAPOR BARRIER & 1/2" GWB ON INTERIOR SIDE

New Residence For:
James & Jessica Rudolf
8253 West Mercer Way
Mercer Island, Washington 98040

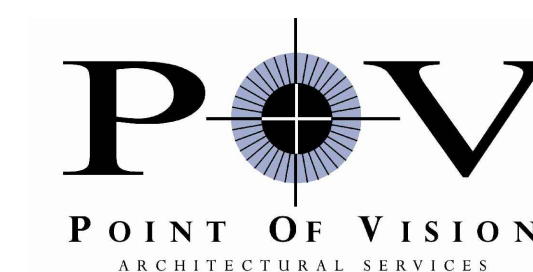
ISSUANCE PERMIT SET 5/15/18

PROJECT INFORMATION
PROJECT NO: POV1740
PROJECT MANAGER: TW
DRAWN BY: BB

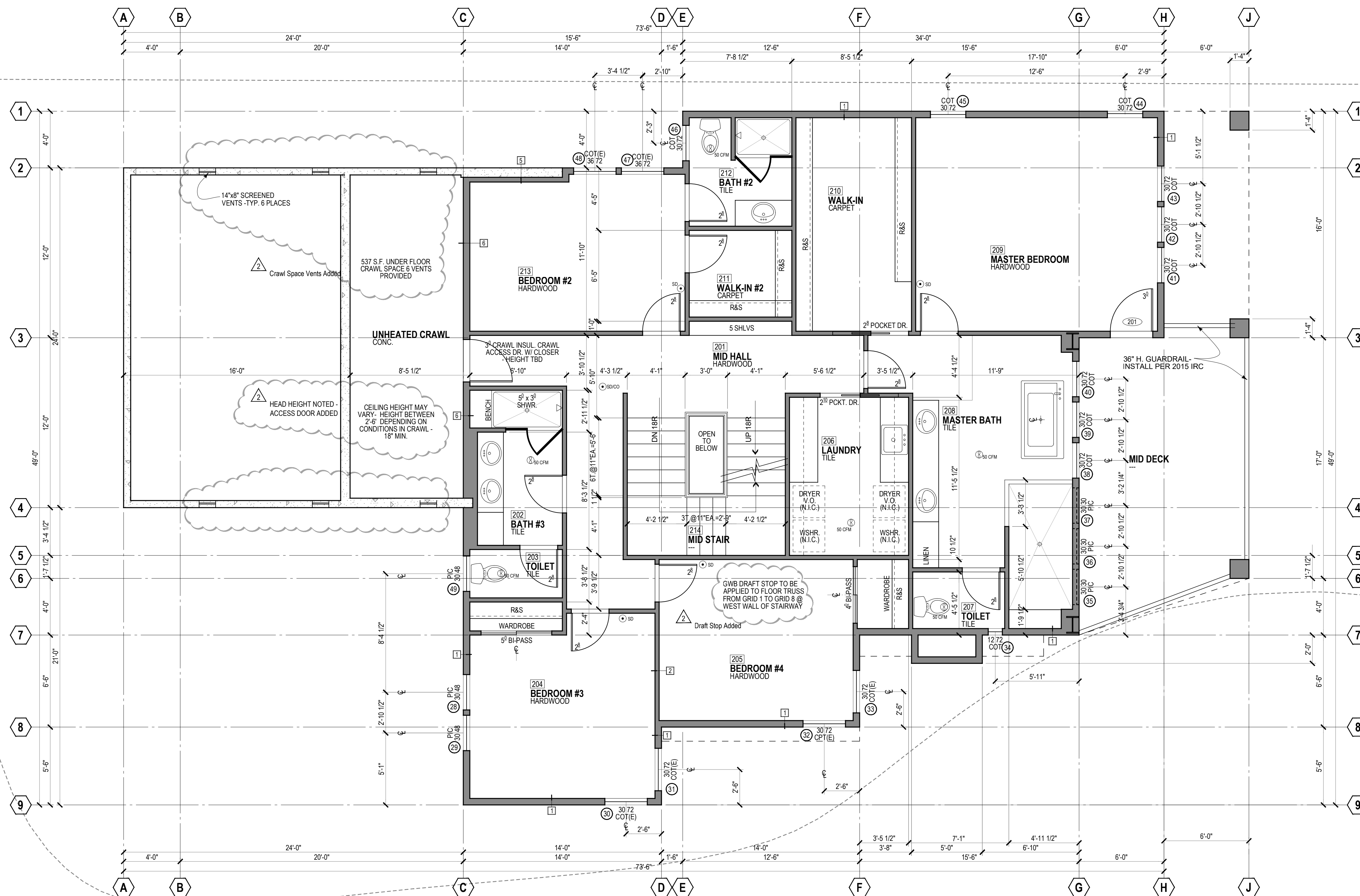
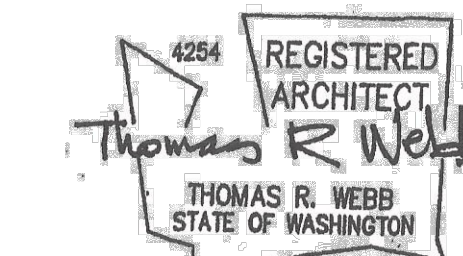
Lower Level Floor Plan

SHEET NO

A4



1628 46th Street SE, Everett, WA 98203
point_of_vision@comcast.net
(425) 772-8207



MID LEVEL FLOOR PLAN
1898 S.F. 1/4" = 1'-0"
NORTH PROJECT NORTH

WALL TYPES

- 1 2x6 @ 16" O.C. STUD WALL & SHEATHING PER STRUCTURAL-R-21 BATT INSULATION W/ VISQUEEN VAPOR BARRIER & 1/2" GWB ON INTERIOR SIDE
- 2 2x4 @ 16" O.C. STUD WALL W/ 1/2" GWB EACH SIDE - TYPICAL @ ALL INTERIOR WALLS U.N.O.
- 3 2x4 @ 16" O.C. STUD WALL & SHEATHING PER STRUCTURAL-1/2" GWB ON INTERIOR SIDE.
- 4 2x6 @ 16" O.C. STUD WALL & SHEATHING PER STRUCTURAL-R-21 BATT INSULATION W/ 5/8" TYPE "X" ON COLD SIDE TO UNDERSIDE OF ROOF SHEATHING W/ VISQUEEN VAPOR BARRIER 1/2" GWB ON INTERIOR SIDE
- 5 CONCRETE FOUNDATION WALL PER STRUCTURAL - 2x4 @ 16" O.C. FURRING - R-21 BATT INSULATION - 1/2" GWB
- 6 2x6 @ 16" O.C. STUD WALL & SHEATHING PER STRUCTURAL-R-21 BATT INSULATION - 1/2" GWB ON COLD SIDE W/ VISQUEEN VAPOR BARRIER & 1/2" GWB ON INTERIOR SIDE

ALARM SCHEDULE

| SYMBOL | DESCRIPTION | REQUIREMENTS |
|--------|---|---|
| SD | SMOKE ALARM | <ul style="list-style-type: none"> • 110 V INTERCONNECTED W/ BATTERY BACKUP • INSTALLED ON EACH FLOOR AND IN EACH SLEEPING AREA • LISTED IN ACCORDANCE WITH UL 217 AND INSTALLED PER THE HOUSEHOLD FIRE WARNING EQUIPMENT PROVISIONS OF NEPA 72 |
| CSD | COMBINATION SMOKE ALARM CARBON MONOXIDE ALARM | <ul style="list-style-type: none"> • INSTALLED OUTSIDE OF EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS • SMOKE ALARM REQUIREMENTS PER ABOVE • CARBON MONOXIDE ALARMS TO BE INSTALLED IN DWELLING UNITS WITHIN WHICH FUEL-FIRED APPLIANCES ARE INSTALLED AND IN DWELLING UNITS THAT HAVE ATTACHED GARAGES • CARBON MONOXIDE ALARMS LISTED AS COMPLYING WITH UL 2034 AND INSTALLED PER MANUFACTURERS INSTALLATION INSTRUCTIONS |

VENTILATION SCHEDULE

| SYMBOL | LOCATION | MINIMUM FAN REQUIREMENTS |
|----------|-----------------------|---|
| Q30 CFM | BATH, POWDER, LAUNDRY | • MIN 50 CFM AT 0.25" WG TABLE M1507.3 |
| Q100 CFM | KITCHEN | MINIMUM 100 CFM AT 0.25" WG (IRC TABLE M1507.3) (RANGE HOOD OR DOWN DRAFT EXHAUST FAN RATED AT MIN 100 CFM AT 0.10" WG MAY BE USED FOR EXHAUST FAN REQUIREMENT.) |
| QWH | WHOLE HOUSE FAN | <ul style="list-style-type: none"> • 140 CFM AT 0.25" WG (IRC TABLE M1508.2) • WHOLE HOUSE FAN TO OPERATE AT LEAST ONCE EVERY HOURS • WHOLE HOUSE FANS LOCATED 4 FT OR LESS FROM INTERIOR GRILLE TO HAVE A SONE RATING OF 1.0 LESS MEASURED AT 0.1" WG |

ALL FANS TO VENT TO OUTSIDE. ALL OTHER REQUIREMENTS OF THE 2015 WSEC AND 2015 IRC SECTIONS M1507 AND M1508 MUST BE MET.

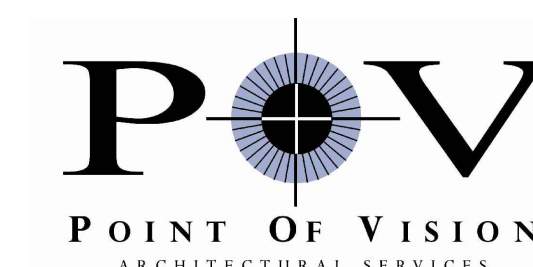
ISSUANCE PERMIT SET 5/15/18

PROJECT INFORMATION
PROJECT NO: POV1740
PROJECT MANAGER: TW
DRAWN BY: BB

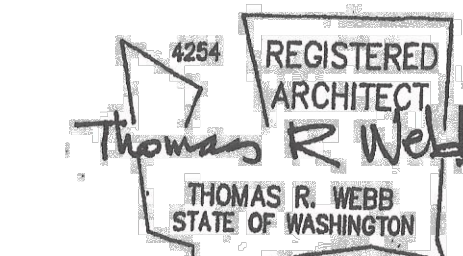
Mid Level Floor Plan

SHEET NO

I:\Laptop-H2\2\H2\POV\POV1740\H2\H2\Floor Plans\POV1740 A2.7 Plans.dwg, 3/31/2019 3:11:14 PM, Del, Point Of Vision 2017



1628 46th Street SE, Everett, WA 98203
point_of_vision@comcast.net
(425) 772-8207



New Residence For:
James & Jessica Rudolf
8253 West Mercer Way
Mercer Island, Washington 98040

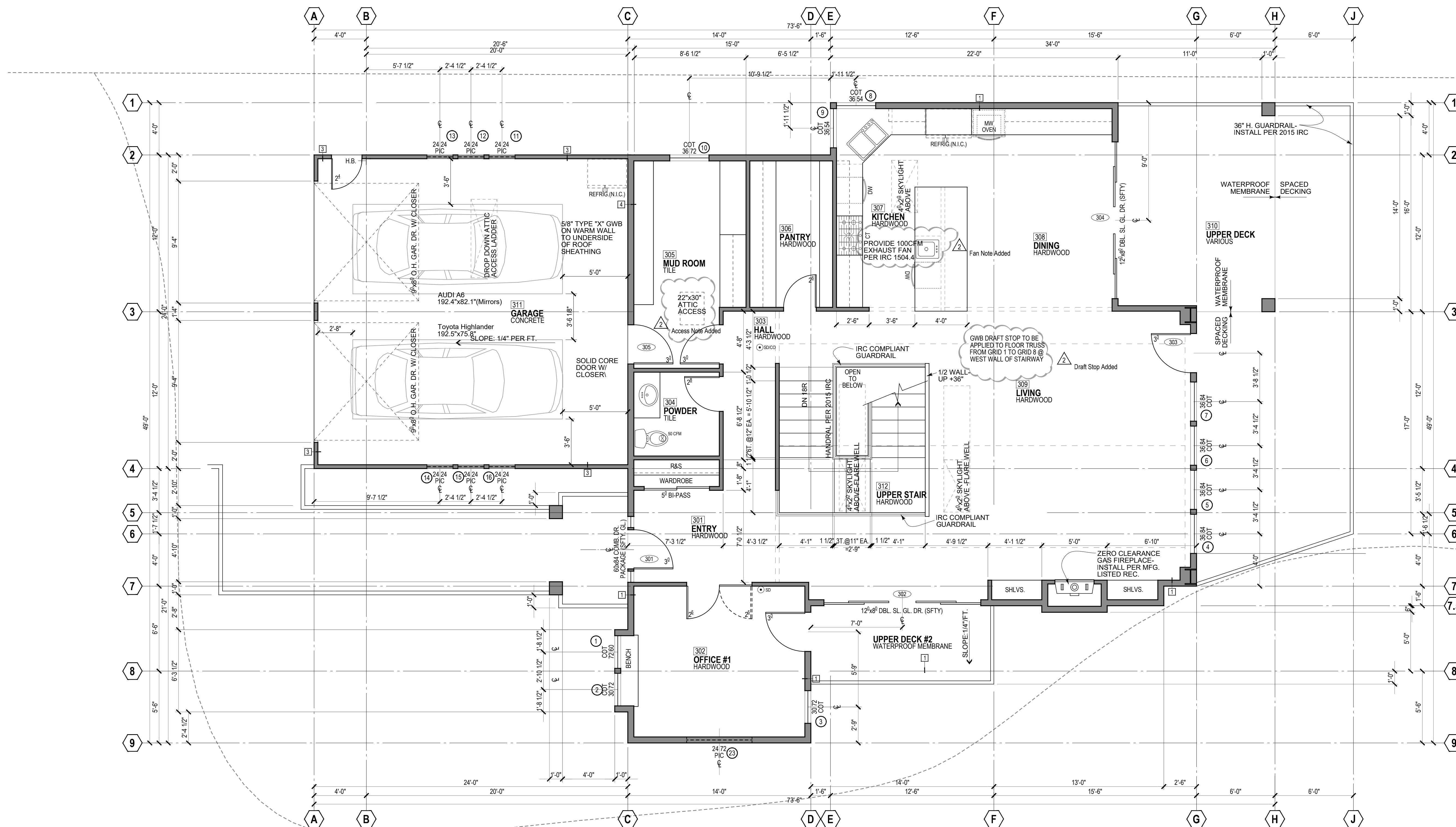
ISSUANCE PERMIT SET 5/15/18

PROJECT INFORMATION
PROJECT NO: POV1740
PROJECT MANAGER: TW
DRAWN BY: BB

Upper Level Floor Plan

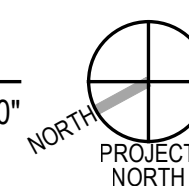
SHEET NO

A6



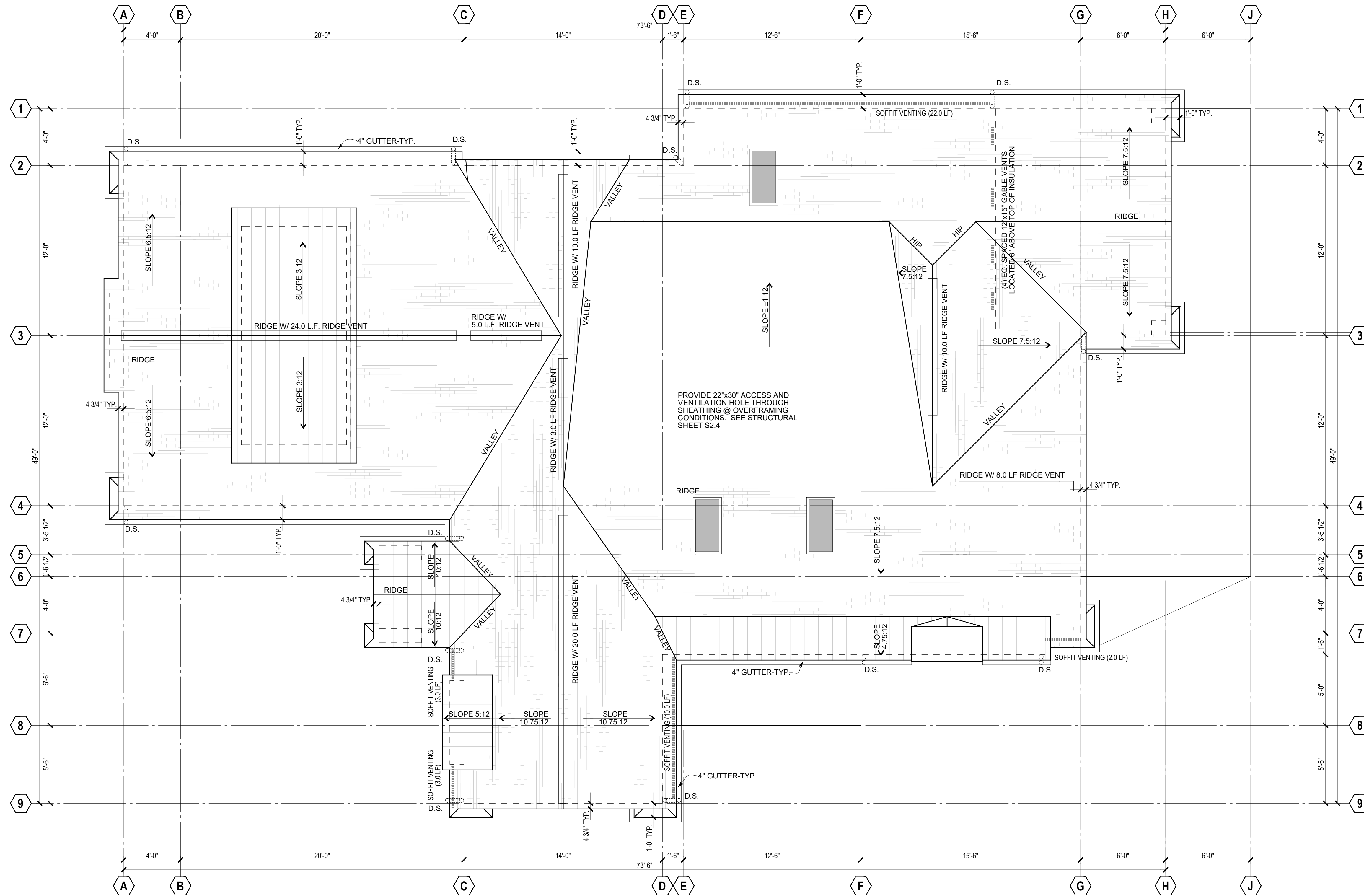
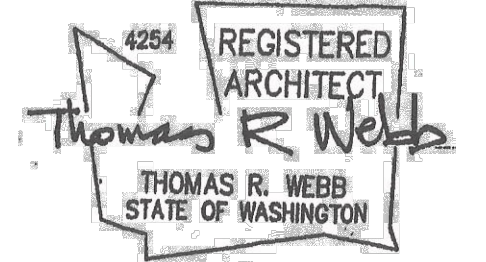
UPPER LEVEL FLOOR PLAN

LIVING 1669 S.F. / GARAGE 576 S.F. 1/4" = 1'-0"

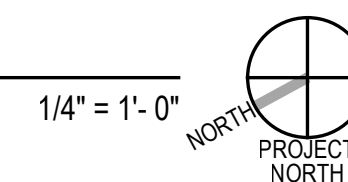


WALL TYPES

- 1 2x6 @ 16" O.C. STUD WALL & SHEATHING PER STRUCTURAL-R-21 BATT INSULATION W/ VISQUEEN VAPOR BARRIER & 1/2" GWB ON INTERIOR SIDE
- 2 2x4 @ 16" O.C. STUD WALL W/ 1/2" GWB EACH SIDE - TYPICAL @ ALL INTERIOR WALLS U.N.O.
- 3 2x4 @ 16" O.C. STUD WALL & SHEATHING PER STRUCTURAL-1/2" GWB ON INTERIOR SIDE.
- 4 2x6 @ 16" O.C. STUD WALL & SHEATHING PER STRUCTURAL-R-21 BATT INSULATION W/ 5/8" TYPE "X" ON COLD SIDE TO UNDERSIDE OF ROOF SHEATHING W/ VISQUEEN VAPOR BARRIER & 1/2" GWB ON INTERIOR SIDE
- 5 CONCRETE FOUNDATION WALL PER STRUCTURAL - 2x4 @ 16" O.C. FURRING - R-21 BATT INSULATION - 1/2" GWB
- 6 2x6 @ 16" O.C. STUD WALL & SHEATHING PER STRUCTURAL-R-21 BATT INSULATION - 1/2" GWB ON COLD SIDE W/ VISQUEEN VAPOR BARRIER & 1/2" GWB ON INTERIOR SIDE



ROOF PLAN



ROOF VENTILATION

WHOLE ROOF / ATTIC AREA
STANDARD PRE-MANUFACTURED OPEN TRUSS / ATTIC ASSEMBLY

- 1. ROOF ATTIC AREA: 2,672 S.F.
- 2. VENTILATION REQUIRED: 2,672 S.F. x 1/300 = 8.91 S.F.
8.91 S.F. = 1,283 S.I. (144 S.I. PER 1 S.F.)
- 3. LOW VENTILATION: CONTINUOUS CONCRETE FIBER BOARD PANEL W/
10 S.I. / L.F. - 40 L.F. SOFFIT PROVIDED.
10 S.I. x 40 L.F. = 400 S.I. VENTILATION
GABLE VENTS PROVIDING 180 S.I. EA.
4 PROVIDED x 180 S.I. = 720 S.I.
TOTAL LOW VENTILATION PROVIDED = 1120 S.I.
- 4. HIGH VENTILATION: PROPOSED GAF COBRA 3 RIDGE VENTILATION
18 S.I. / L.F. - 56 L.F. RIDGE VENT PROVIDED
18 S.I. x 56 L.F. = 1,008 S.I.
- 5. TOTAL VENTILATION: 400 S.I. LOW + 1,008 S.I. HIGH = 1,408 S.I. TOTAL
1,408 S.I. > 1,283 S.I. OK

ISSUANCE PERMIT SET 5/15/18

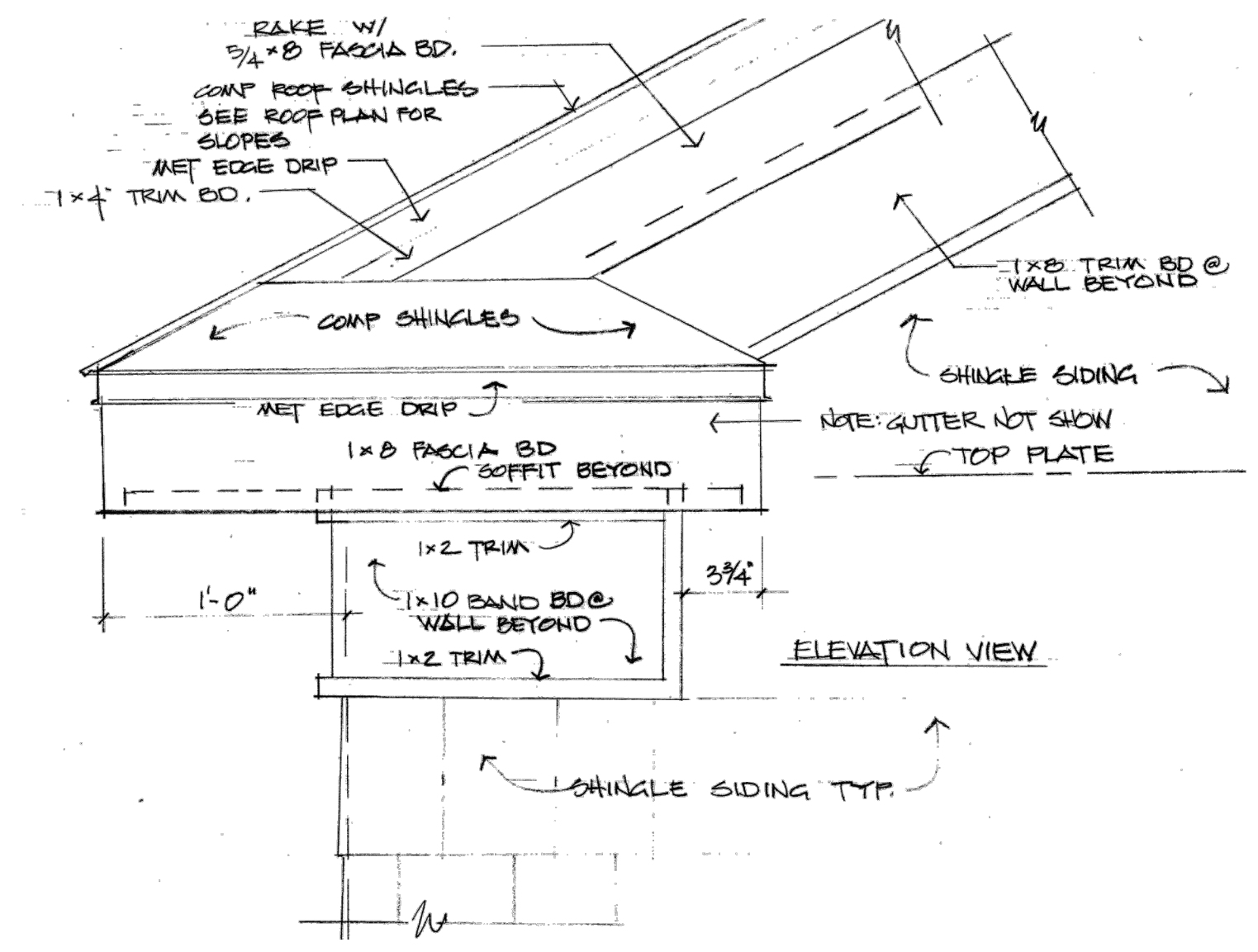
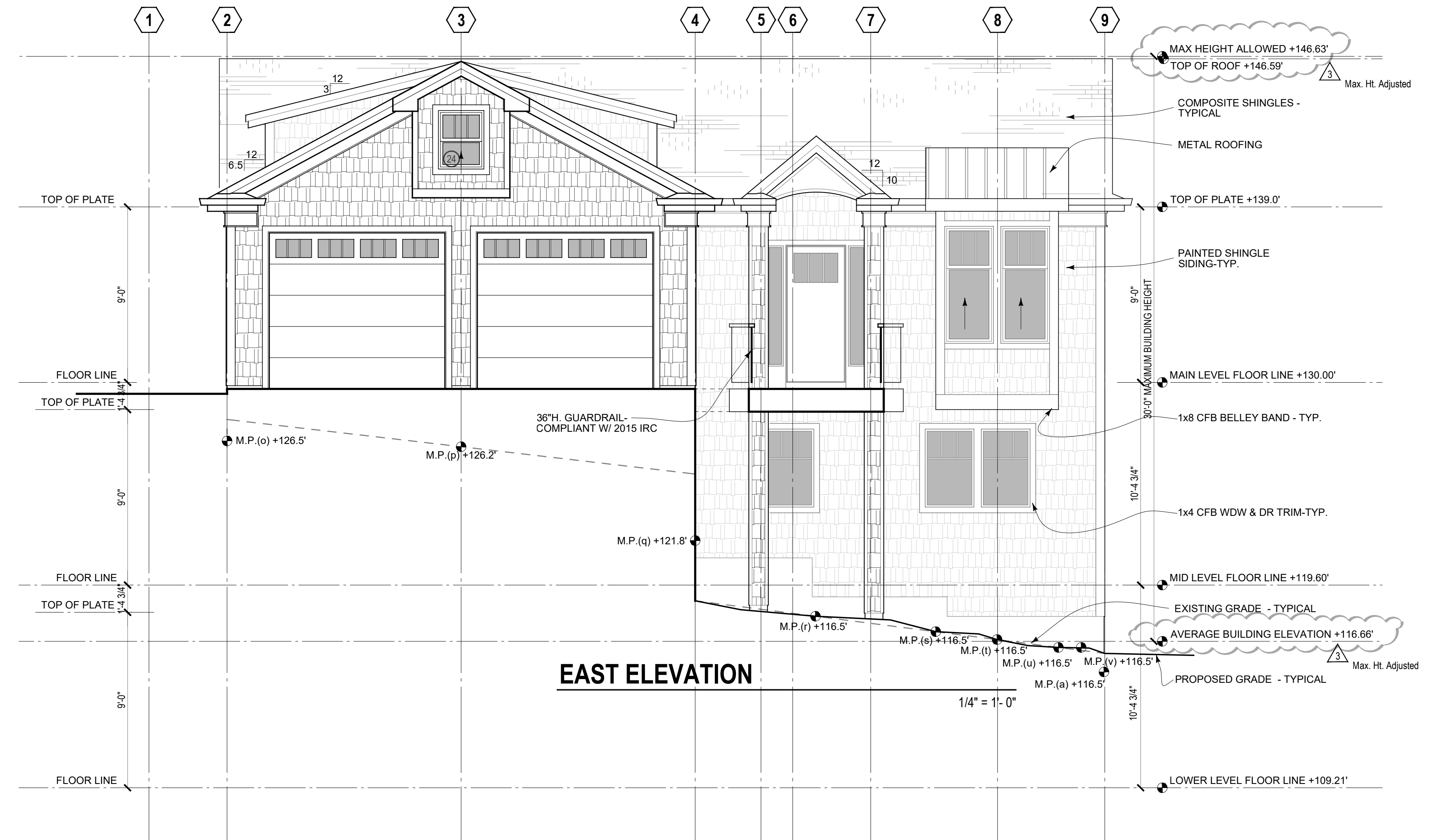
| | |
|---------------------|---------|
| PROJECT INFORMATION | |
| PROJECT NO: | POV1740 |
| PROJECT MANAGER: | TW |
| DRAWN BY: | BB |

Roof Plan

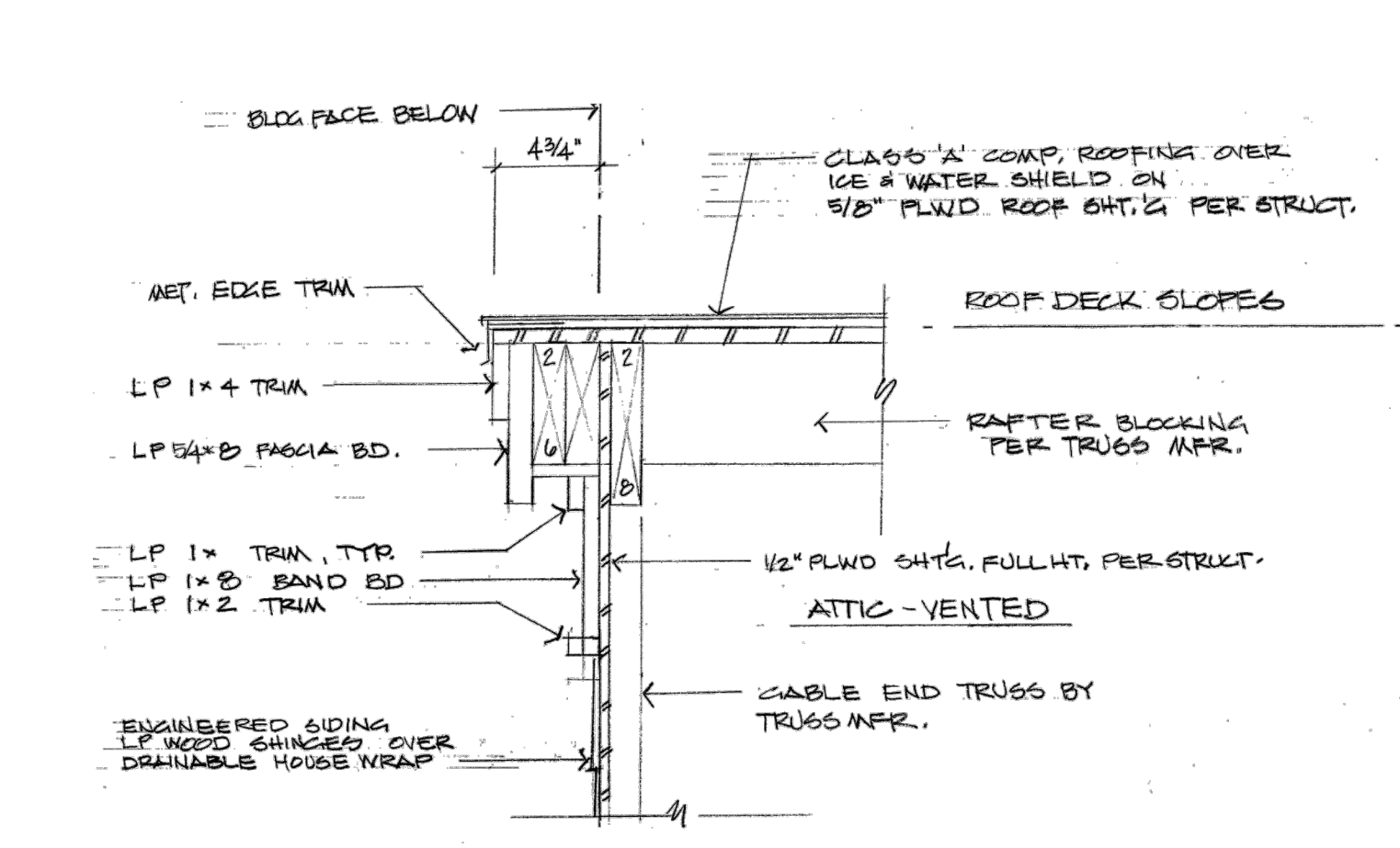
SHEET NO

A7

\\Lapop-H2a\hdc\POV\POV1740\Residence\POV1740 A2.7 Plans.dwg, 3/31/2019 3:11:16 PM, Dell, Point Of Vision 2017



2 EAVE RETURN @ RAKE CORNER
1-1/2" = 1'-0" SIMILAR DESIGN AT VARIOUS PITCHES - VERIFY W/ ARCHITECT



1 ROOF RAKE DETAIL
1-1/2" = 1'-0" SIMILAR DESIGN AT VARIOUS PITCHES - VERIFY W/ ARCHITECT

New Residence For:
James & Jessica Rudolf
8253 West Mercer Way
Mercer Island, Washington 98040

ISSUANCE PERMIT SET 5/15/18
3-31-19 Maximum Building Height Clarified

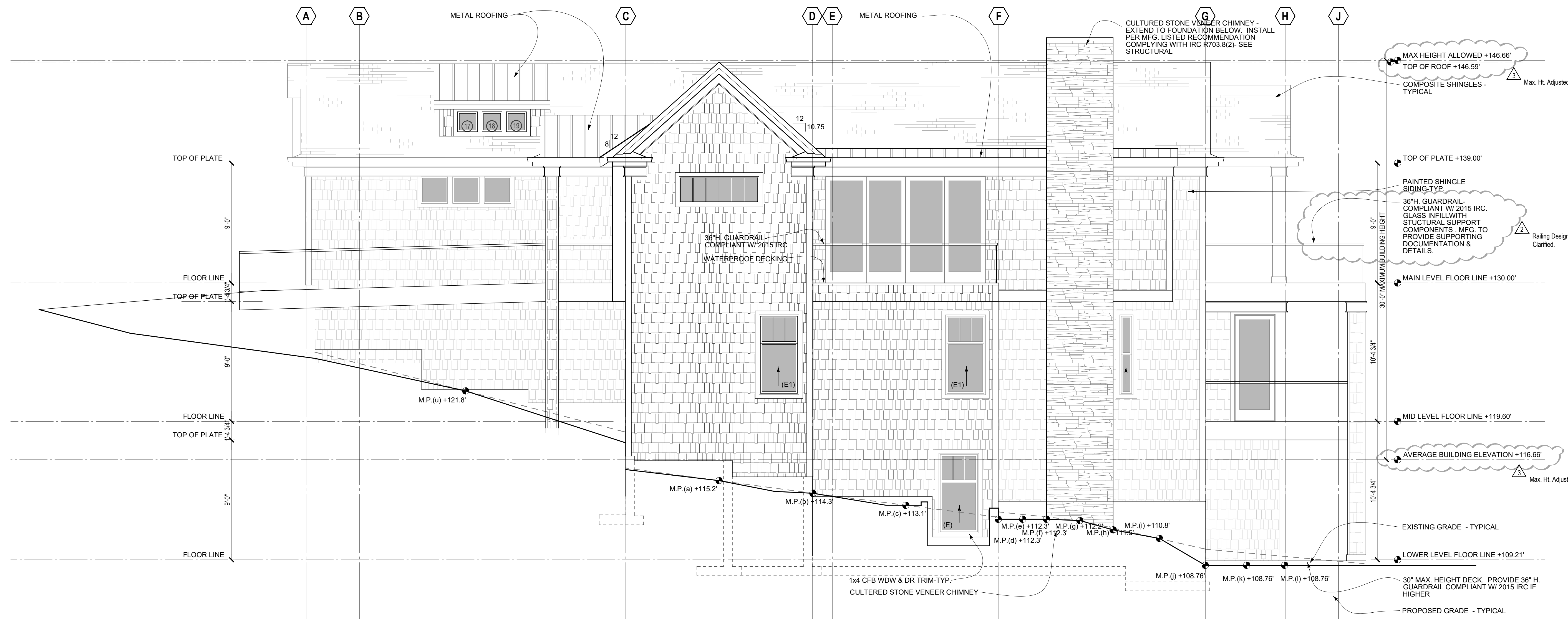
PROJECT INFORMATION
PROJECT NO: POV1740
PROJECT MANAGER: TW
DRAWN BY: BB

East Building Elevation

SHEET NO

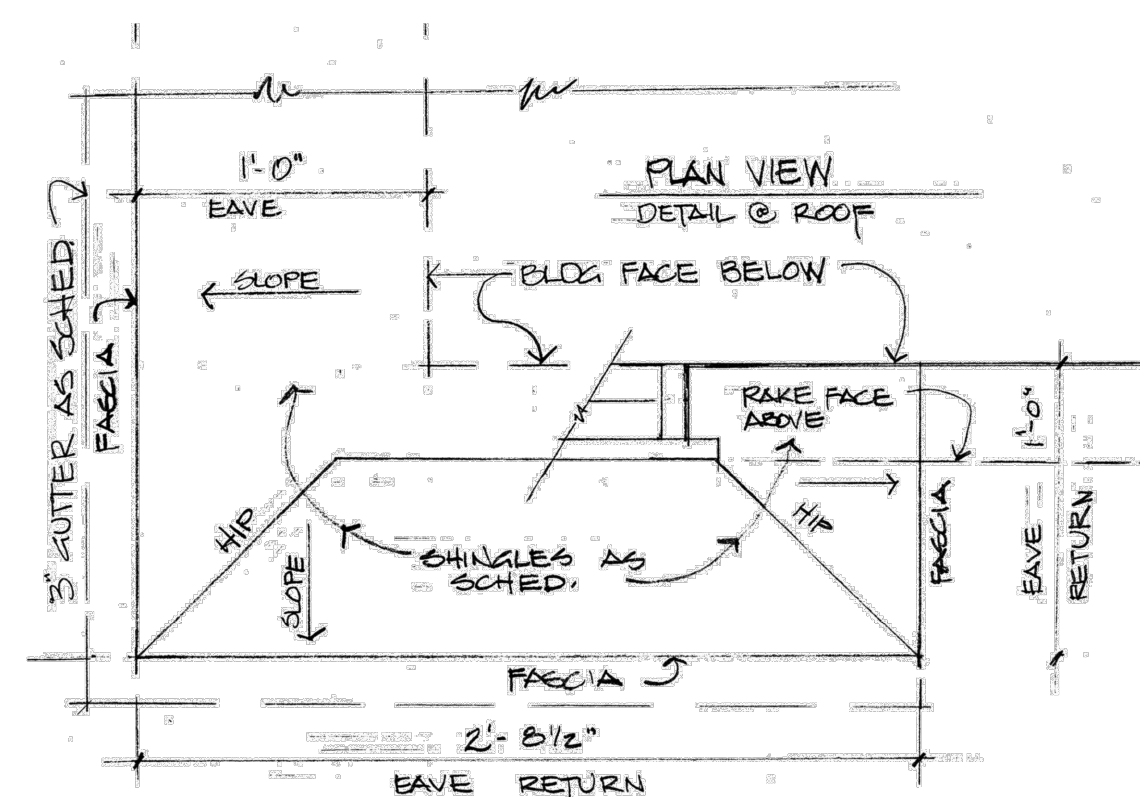
A8

I:\Laptop-H2\h2\h2\POV\POV1740 Rudolf Residence\POV1740 A8-14 Building Sections.dwg, 3/31/2019 3:11:20 PM, Dell, Point Of Vision 2017



NORTH ELEVATION

1/4" = 1'-0"



2 EAVE RETURN PLAN @ RAKE CORNER

1-1/2" = 1'-0" SIMILAR DESIGN AT VARIOUS PITCHES - VERIFY W/ ARCHITECT

New Residence For:
James & Jessica Rudolf
8253 West Mercer Way
Mercer Island, Washington 98040

ISSUANCE PERMIT SET 5/15/18

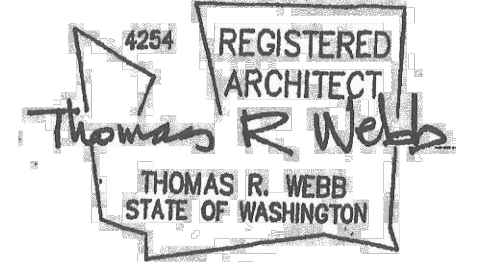
3-31-19 Maximum Building Height Clarified

PROJECT INFORMATION
PROJECT NO: POV1740
PROJECT MANAGER: TW
DRAWN BY: BB

North Building Elevation

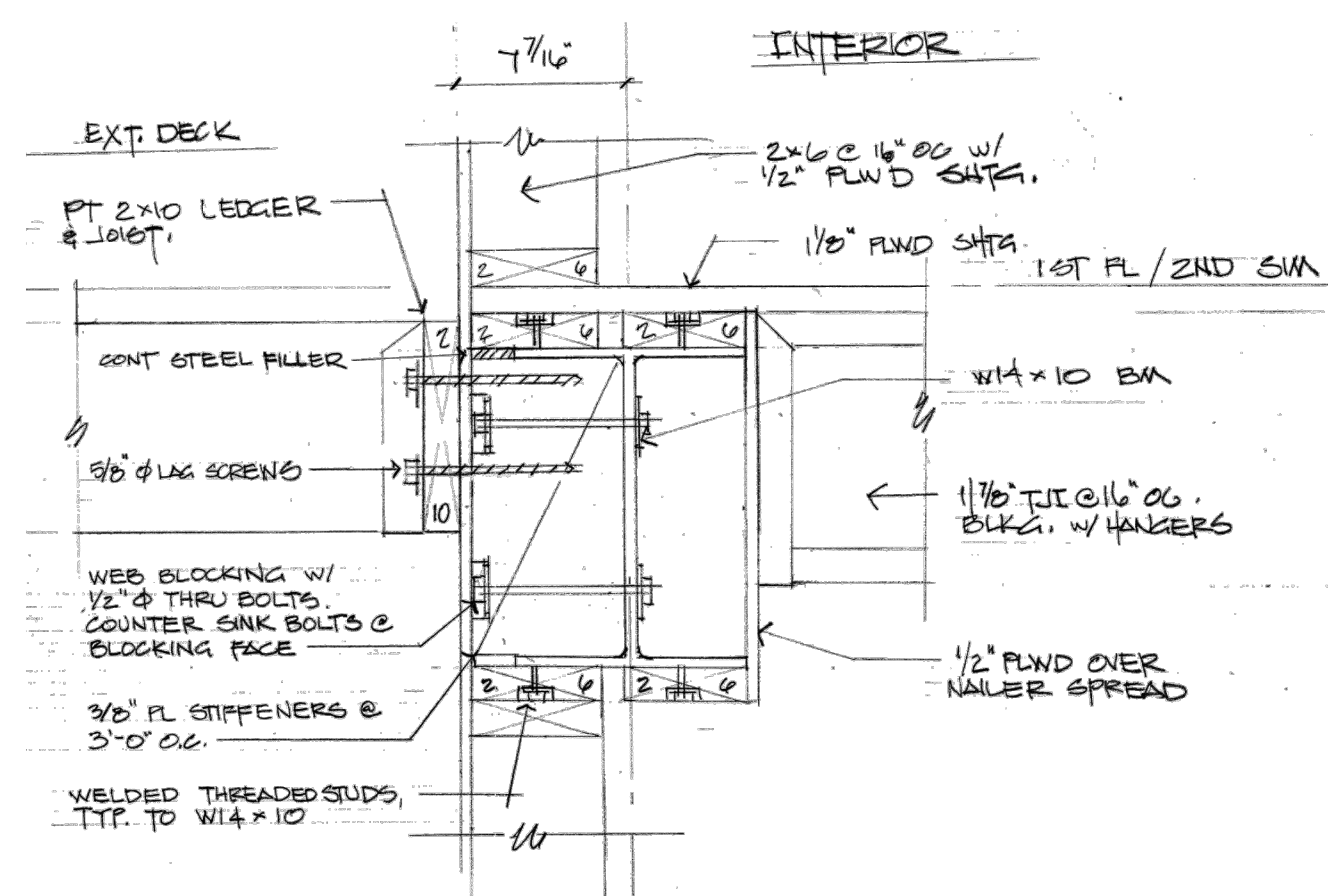
SHEET NO

A9

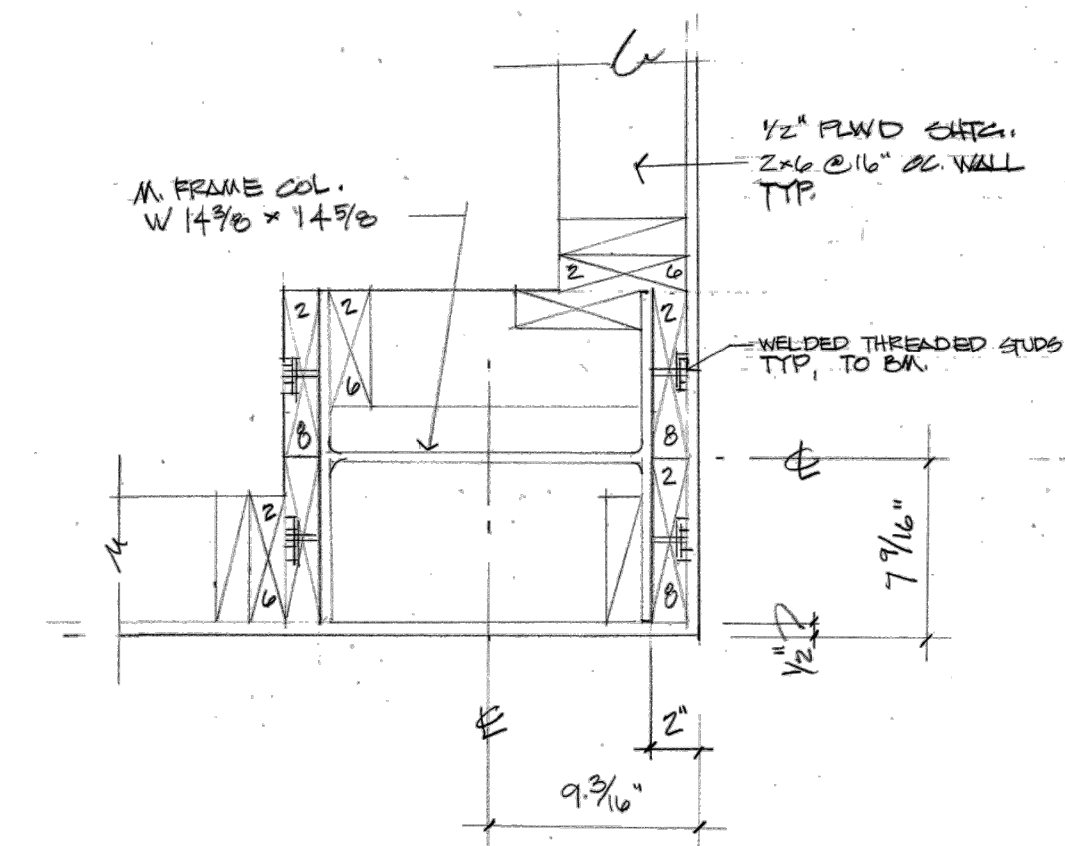


WEST ELEVATION

1/4" = 1'-0"



2 DETAIL @ MOMENT FRAME BEAM
1-1/2" = 1'-0" SEE STRUCTURAL DETAIL



1 MOMENT FRAME DETAIL @ COLUMN
1-1/2" = 1'-0" SEE STRUCTURAL DETAIL

New Residence For:
James & Jessica Rudolf
8253 West Mercer Way
Mercer Island, Washington 98040

ISSUANCE PERMIT SET 5/15/18
3-31-19 Maximum Building Height Clarified

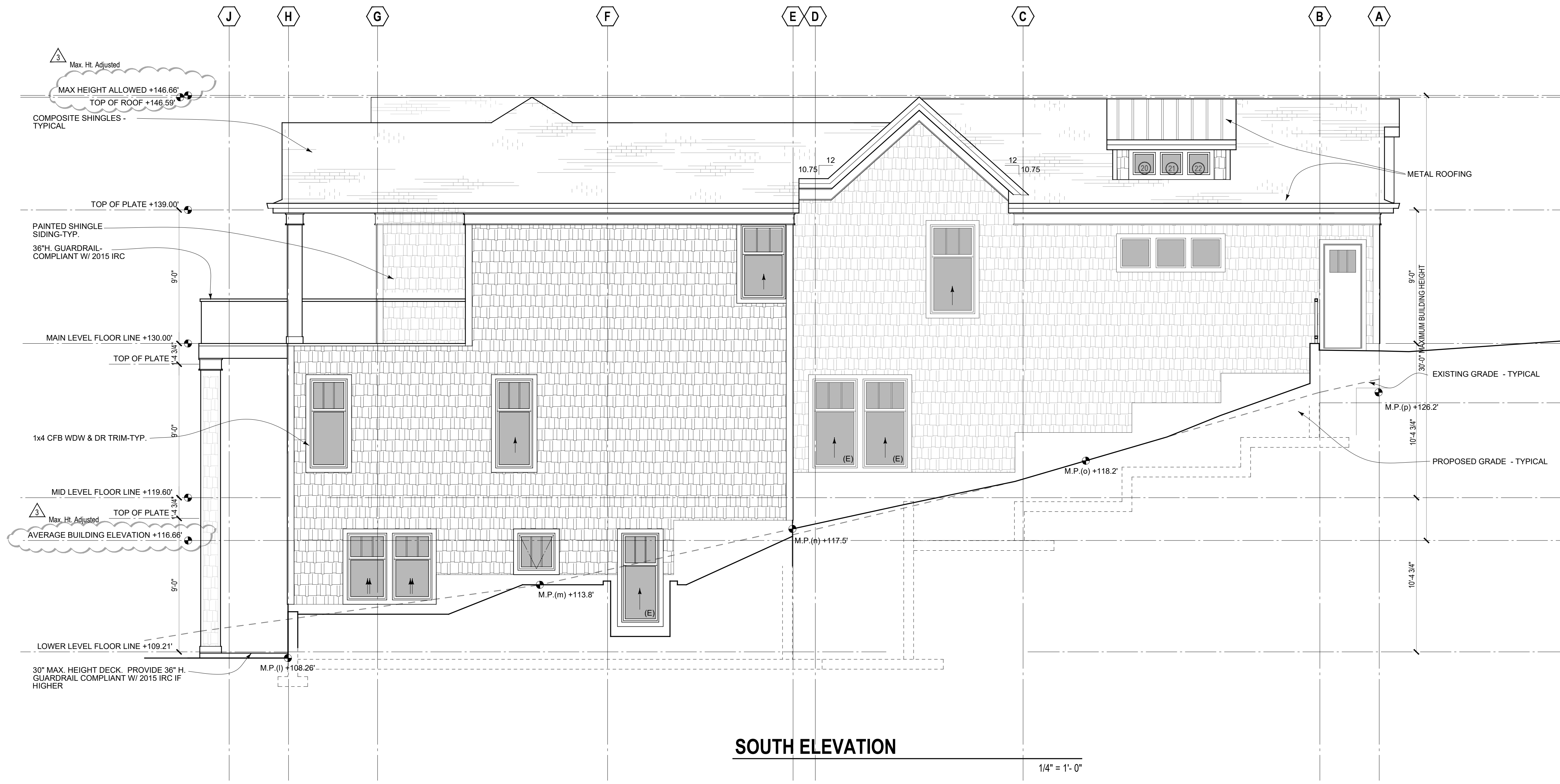
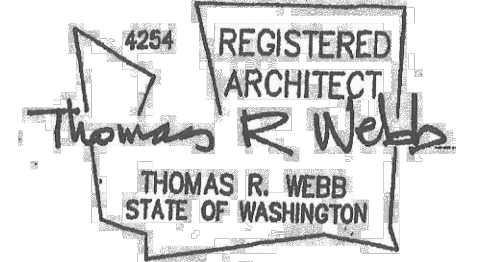
PROJECT INFORMATION
PROJECT NO: POV1740
PROJECT MANAGER: TW
DRAWN BY: BB

West Building Elevation

SHEET NO

A10

I:\Laptop-H2\h2\pov\POV1740 Rudolf Residence\POV1740 A8-14 Building Sections.dwg, 3/31/2019 3:11:27 PM, Dell, Point Of Vision 2017



SOUTH ELEVATION

1/4" = 1'-0"

New Residence For:
James & Jessica Rudolf
8253 West Mercer Way
Mercer Island, Washington 98040

| | |
|---|--------------------|
| ISSUANCE | PERMIT SET 5/15/18 |
| 3-31-19 Maximum Building Height Clarified | |

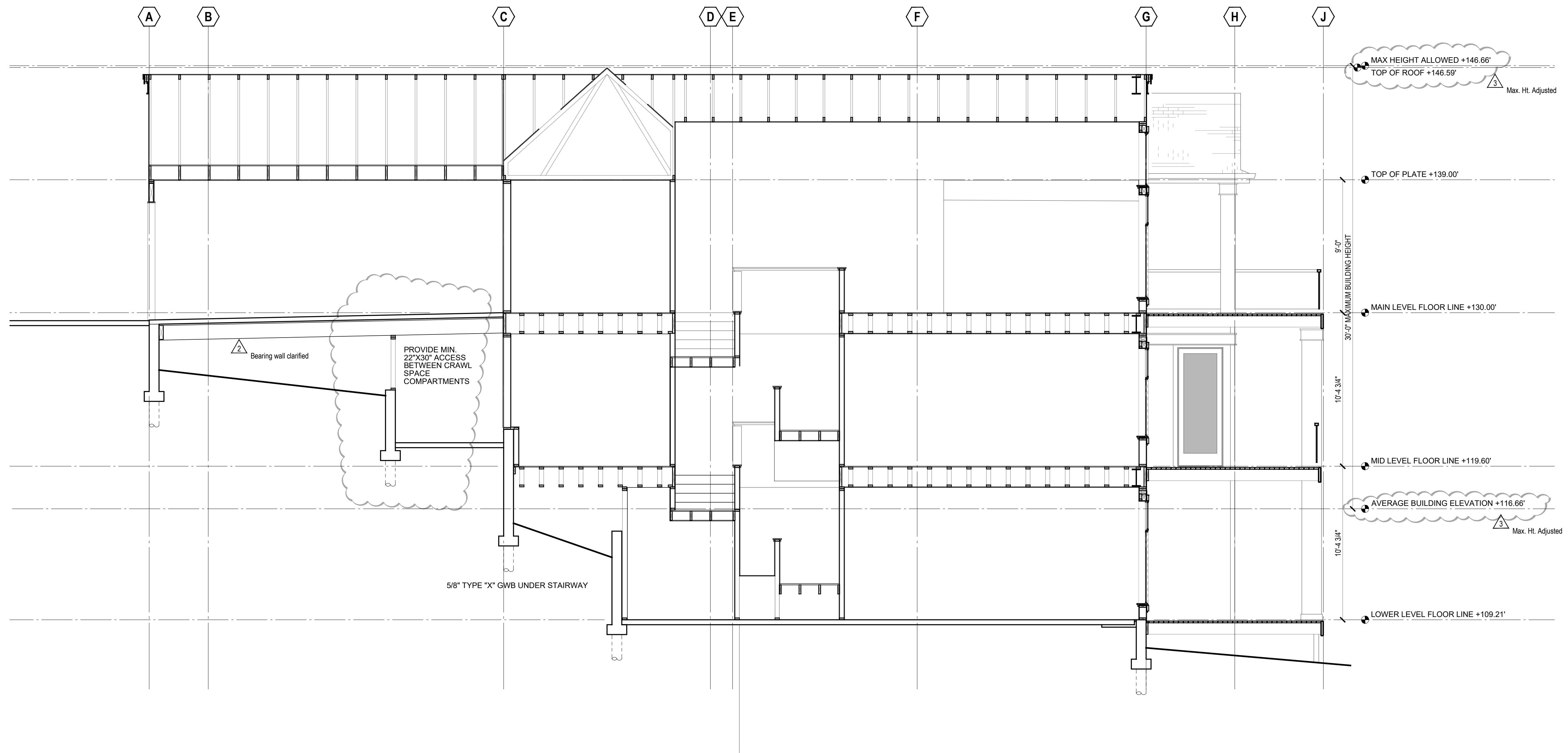
| | |
|---------------------|---------|
| PROJECT INFORMATION | |
| PROJECT NO: | POV1740 |
| PROJECT MANAGER: | TW |
| DRAWN BY: | BB |

South Building Elevation

SHEET NO

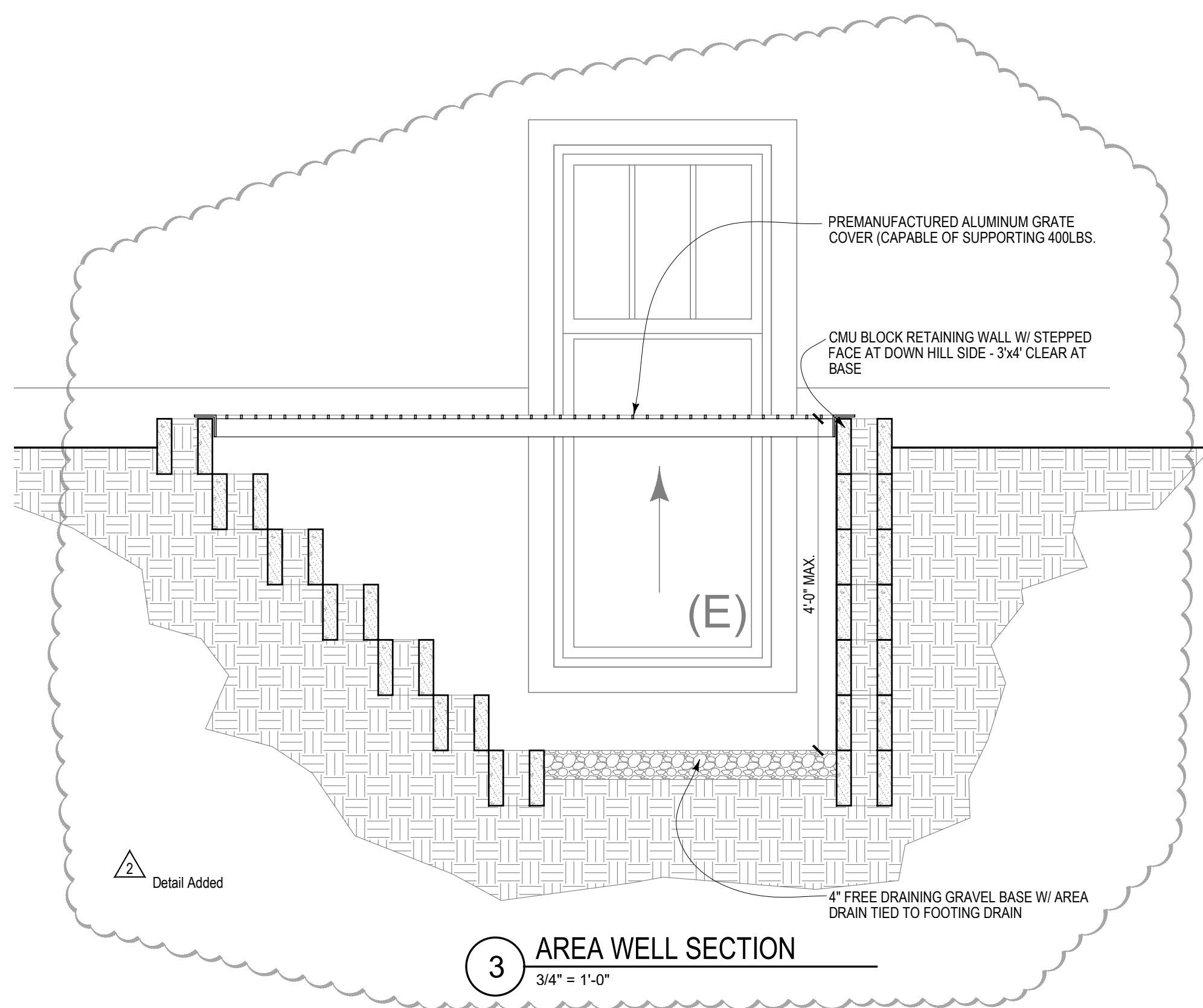
A11

I:\pov-H\2\h\pov\POV1740 Rudolf Residence\POV1740 A8-14 Building Sections.dwg, 3/31/2019 3:11:30 PM, Dell, Point Of Vision 2017



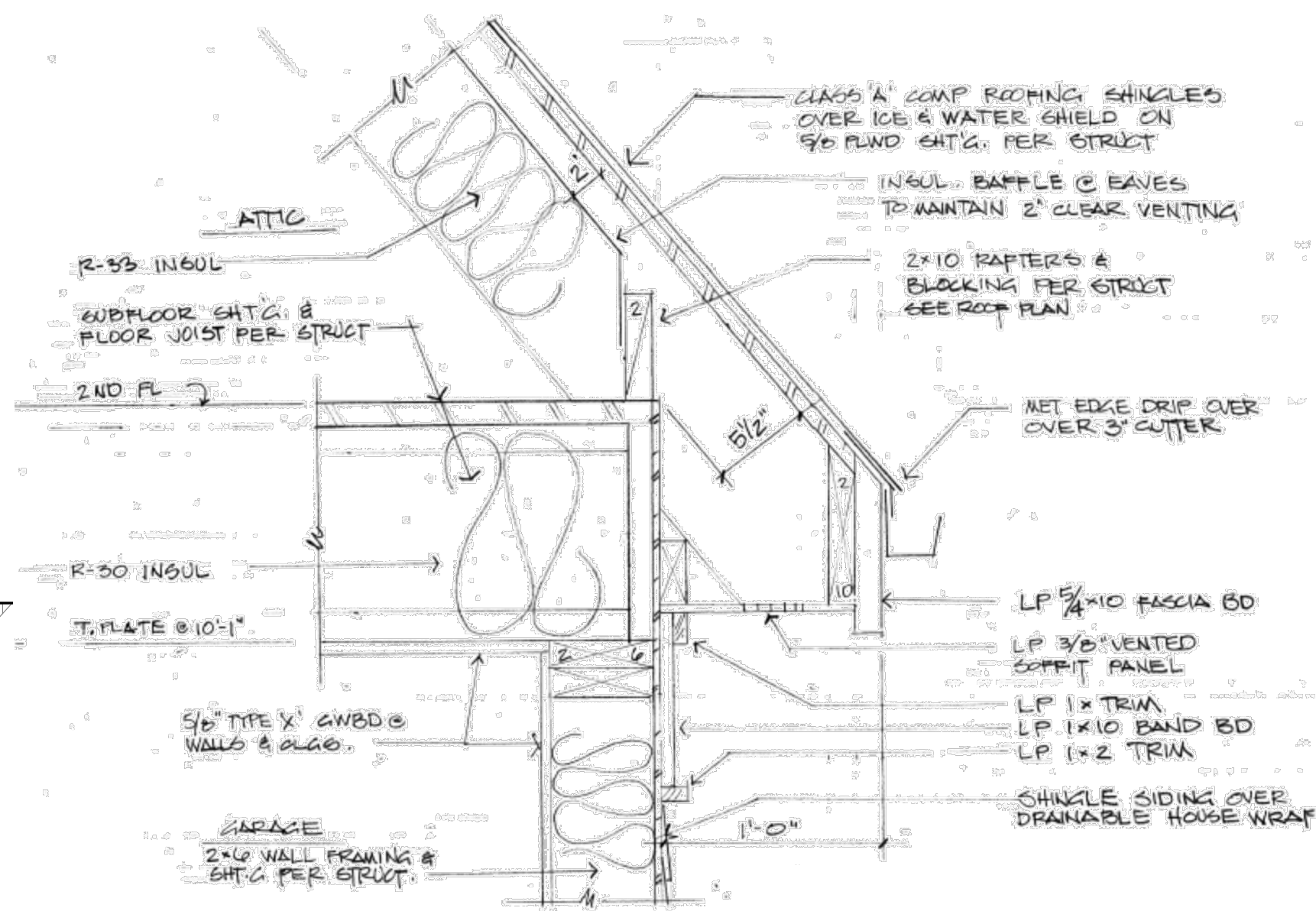
A BUILDING SECTION

1/4" = 1'-0"



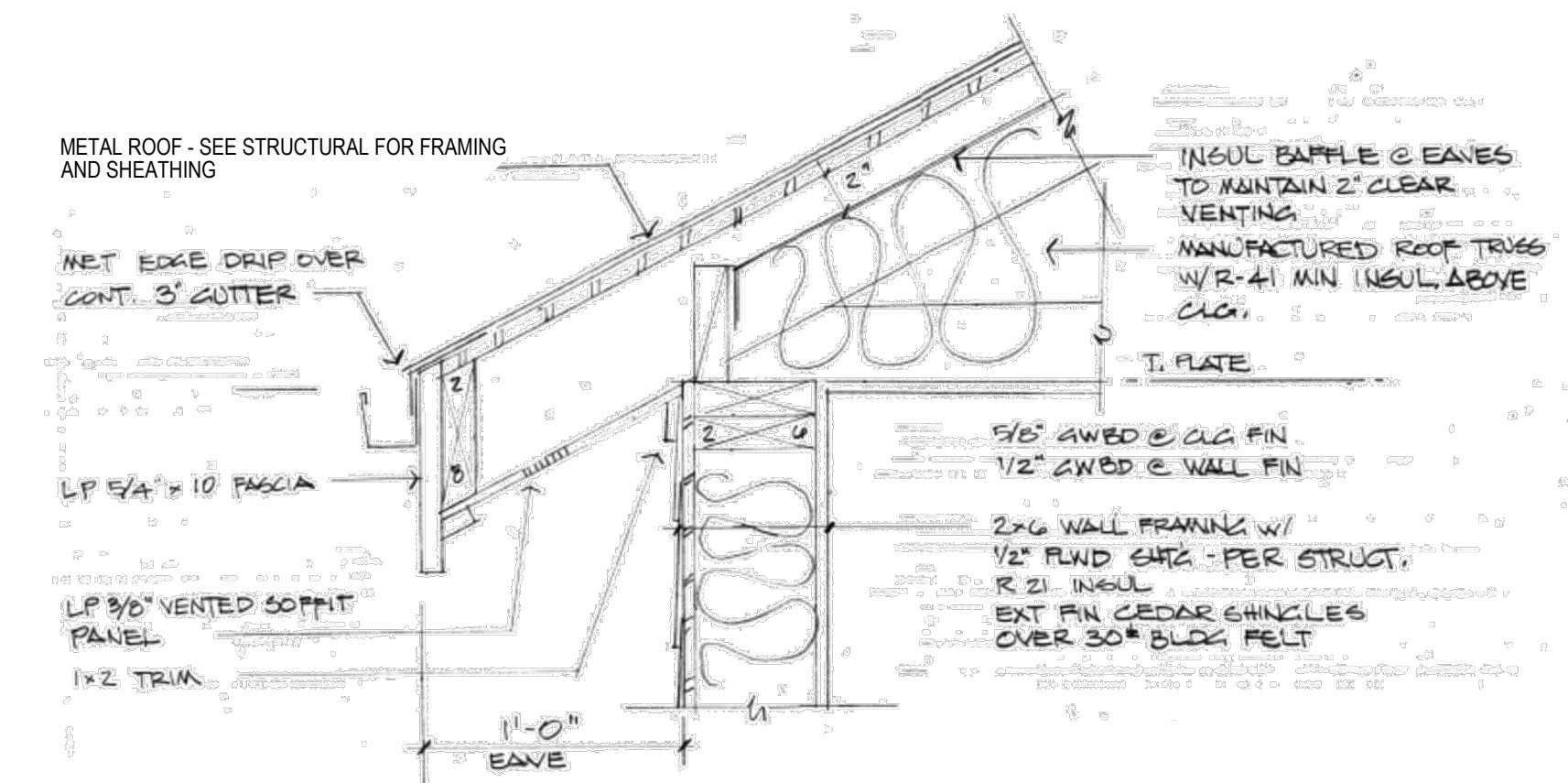
3 AREA WELL SECTION

3/4" = 1'-0"



2 EAVE @ GARAGE

1-1/2" = 1'-0" SEE STRUCTURAL DETAIL



1 EAVE @ DORMER

1-1/2" = 1'-0" SEE STRUCTURAL DETAIL

ISSUANCE PERMIT SET 5/15/18

3-31-19 Maximum Building Height Clarified

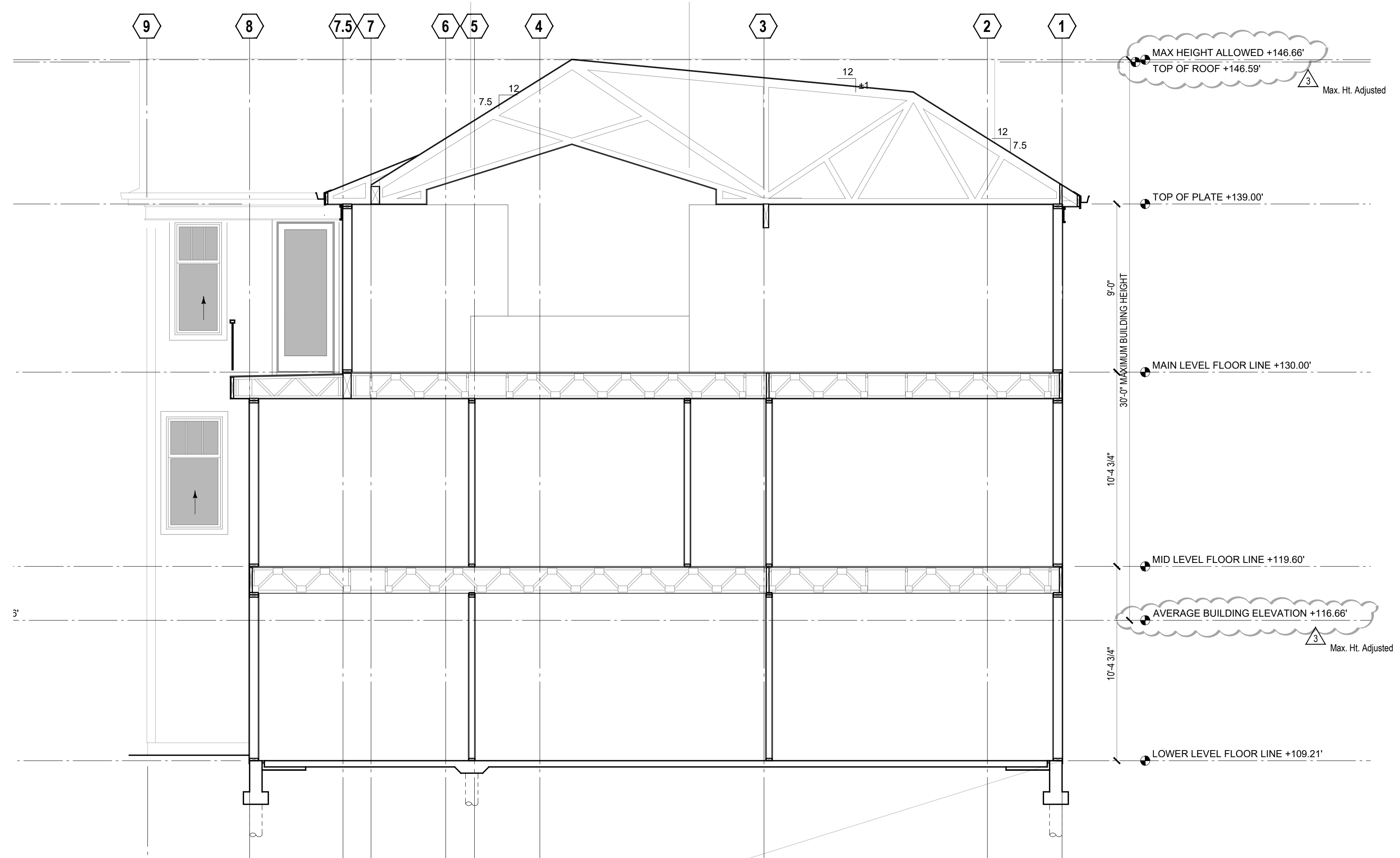
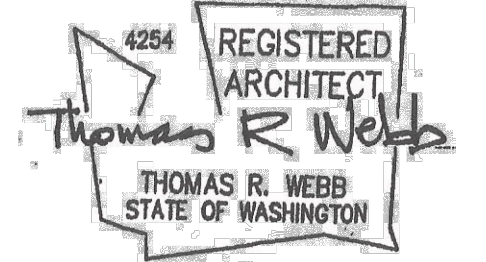
PROJECT INFORMATION
 PROJECT NO: POV1740
 PROJECT MANAGER: TW
 DRAWN BY: BB

Building Section A

SHEET NO

A12

U:\shop-H2\shop\POV\POV1740\Residence\POV1740_A8-14 Building Sections.dwg, 3/31/2019 3:11:33 PM, Dell, Point Of Vision 2017



B BUILDING SECTION
 1/4" = 1'-0"

New Residence For:
James & Jessica Rudolf
 8253 West Mercer Way
 Mercer Island, Washington 98040

| | |
|---|--------------------|
| ISSUANCE | PERMIT SET 5/15/18 |
| 3-31-19 Maximum Building Height Clarified | |

| | |
|---------------------|---------|
| PROJECT INFORMATION | |
| PROJECT NO: | POV1740 |
| PROJECT MANAGER: | TW |
| DRAWN BY: | BB |

Building Section B

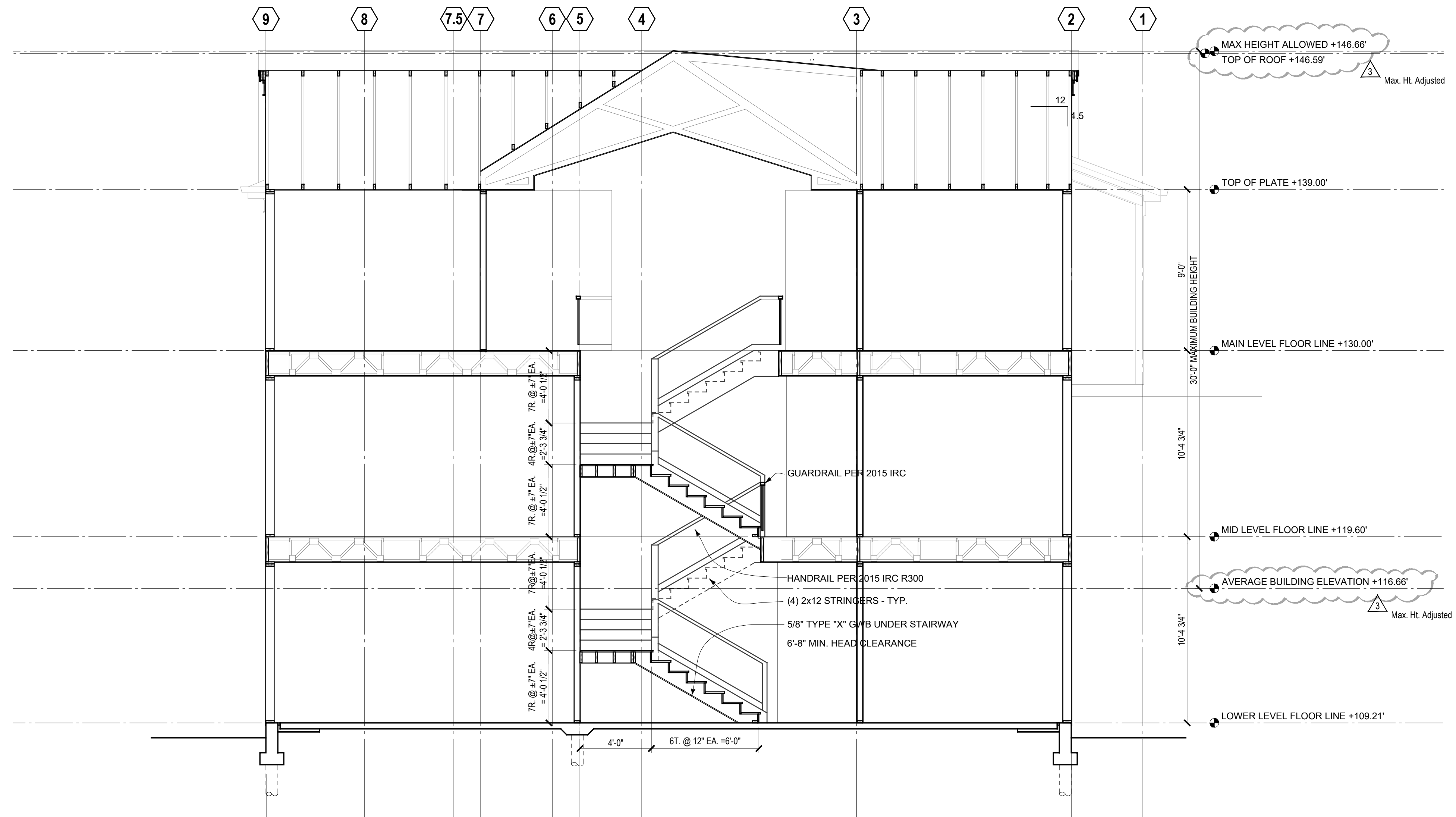
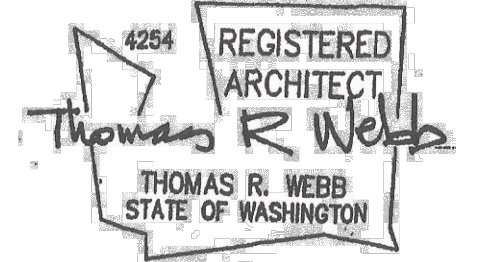
SHEET NO

A13

\\Lapop-H2\h2\pov\POV1740 Rudolf Residence\POV1740 A8-14 Building Sections.dwg, 3/31/2019 3:11:36 PM, Dell, Point Of Vision 2017



1628 46th Street SE, Everett, WA 98203
 point_of_vision@comcast.net
 (425) 772-8207



C BUILDING SECTION

1/4" = 1'-0"

New Residence For:
James & Jessica Rudolf
 8253 West Mercer Way
 Mercer Island, Washington 98040

| | |
|---|--------------------|
| ISSUANCE | PERMIT SET 5/15/18 |
| 3-31-19 Maximum Building Height Clarified | |

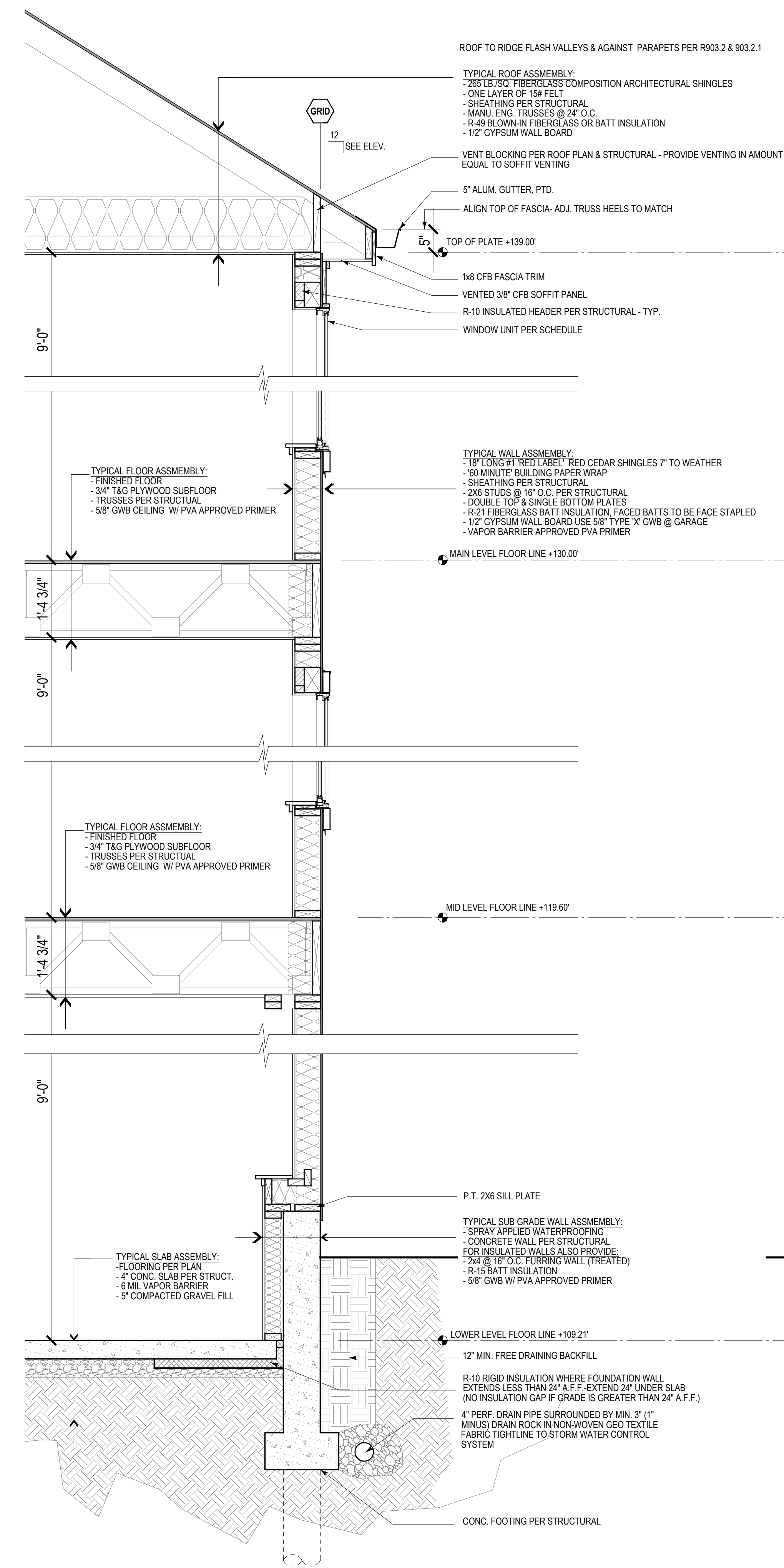
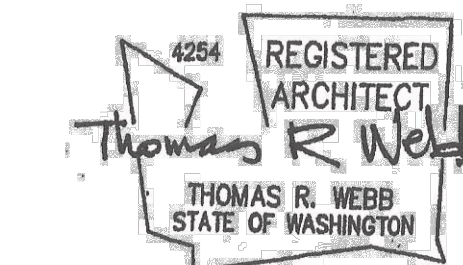
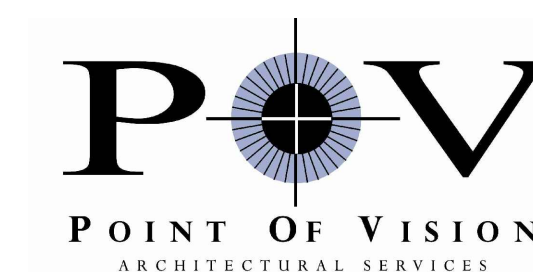
| | |
|---------------------|---------|
| PROJECT INFORMATION | |
| PROJECT NO: | POV1740 |
| PROJECT MANAGER: | TW |
| DRAWN BY: | BB |

Building Section C

SHEET NO

A14

I:\Laptop-H2\h2\pov\POV1740 Rudolf Residence\POV1740 A8-14 Building Sections.dwg, 3/31/2019 3:11:37 PM, Dell, Point Of Vision 2017



A BUILDING SECTION

1/4" = 1'-0"

New Residence For:
James & Jessica Rudolf
8253 West Mercer Way
Mercer Island, Washington 98040

| | |
|----------|--------------------|
| ISSUANCE | PERMIT SET 5/15/18 |
|----------|--------------------|

| | |
|---------------------|---------|
| PROJECT INFORMATION | |
| PROJECT NO: | POV1740 |
| PROJECT MANAGER: | TW |
| DRAWN BY: | BB |

Typical Wall Section & Details

SHEET NO

A15

\\Lapop-H2a\h2a\c\POV\POV1740 Rudolf Residence\POV1740 A15 Wall Sections.dwg, 3/31/2019 3:11:40 PM, Dell, Point Of Vision 2017

STRUCTURAL NOTES

(THESE NOTES ARE TYPICAL UNLESS NOTED OR DETAILED OTHERWISE ON DRAWINGS)

PRE-MANUFACTURED WOOD TRUSSES

WOOD TRUSSES SHALL BE SIZED AND DETAILED TO FIT DIMENSIONS AND LOADS INDICATED ON THE PLANS. ALL DESIGN SHALL BE IN ACCORDANCE WITH THE ALLOWABLE VALUES AND SECTION PROPERTIES ASSIGNED BY THE BUILDING CODE. SUBMIT SHOP DRAWINGS FOR ENGINEER REVIEW PRIOR TO FABRICATION. CALCULATIONS AND SHOP DRAWINGS SHALL BE SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE SAME STATE AS THE PROJECT. TRUSS DESIGN AND SHOP DRAWINGS SHALL BE IN CONFORMANCE WITH IBC 2303.4

PROVIDE TEMPORARY BRACING UNTIL SHEATHING AND PERMANENT BRACING IS INSTALLED. MANUFACTURER SHALL PROVIDE ALL SPECIALTY ITEMS REQUIRED FOR A COMPLETE INSTALLATION OF JOISTS. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

FOR TOP CHORD DESIGN LIVE LOADS, REFER TO THE DESIGN LOAD SECTION. IN ADDITION TO ROOF LOADING LISTED IN THE DESIGN LOAD SECTION, ROOF TRUSSES SHALL BE DESIGNED FOR A BOTTOM CHORD LIVE LOAD OF 10 PSF. TOP AND BOTTOM CHORD LIVE LOAD DO NOT NEED TO BE DESIGNED FOR SIMULTANEOUSLY.

SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOADS AND OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS.

DEFLECTIONS SHALL NOT EXCEED L/360 FOR LIVE LOADS, OR L/240 FOR TOTAL LOADS AT ROOF. DEFLECTIONS SHALL NOT EXCEED L/480 FOR LIVE LOADS, OR L/360 FOR TOTAL LOADS AT FLOOR.

TYPICAL FRAMING NOTES

1. BEARING WALL FRAMING

2x STUDS @ 16" OC FOR ALL SHEAR AND/OR BEARING WALLS UNO.

REFER TO FRAMING PLAN NOTES FOR TYPICAL DOOR & WINDOW HEADERS NOT CALLED OUT ON THE PLANS. HEADERS SHALL BE SUPPORTED BY A MINIMUM OF (1) CRIPPLE AND (1) FULL HEIGHT STUD UNO.

COLUMNS BELOW FLUSH MULTIPLE JOIST BEAMS SHALL BE EQUAL IN WIDTH TO THE BEAM. ALL COLUMNS NOT CALLED OUT OTHERWISE SHALL BE TWO STUDS.

2. WALL BASE PLATE ON CONCRETE

WALL PLATES BEARING ON CONCRETE SHALL BE PRESSURE-TREATED. FOR ALL EXTERIOR AND INTERIOR WALLS, BOLT PLATES OR SILLS TO CONCRETE WITH 5/8 INCH DIAMETER ANCHOR BOLTS WITH 7 INCH MINIMUM EMBEDMENT. PLACE AT 5'-0" OC MAXIMUM FOR SHEAR WALLS, AND AT 6'-0" OC FOR BEARING WALLS AND OTHER PARTITIONS. USE MINIMUM OF TWO ANCHOR BOLTS PER SILL AND PLACE ONE WITHIN 12 INCHES OF EITHER END TYPICAL UNLESS NOTED OR DETAILED OTHERWISE. REFER TO SHEAR WALL SCHEDULE. AT ALL SILL PLATE ANCHOR BOLTS, CONTRACTOR SHALL INSTALL 1/4" x 3" x 3" FLAT PLATE WASHERS.

3. ROOF AND FLOOR FRAMING

PROVIDE 1 1/2" LSL BLOCKING FOR JOISTS AND RAFTERS AT ALL SUPPORTS AND AT 8'-0" OC MAXIMUM UNO. INSTALL DOUBLE JOISTS UNDER PARTITIONS EXTENDING ONE HALF OR MORE OF THE JOIST SPAN. PROVIDE TRUSS BLOCKING PANELS FOR ROOF TRUSSES AT SUPPORTS AND SHEAR WALLS, AND WHERE INDICATED ON PLANS AND DETAILS.

4. DIAPHRAGM NAILING

ALL SHEAR WALLS, FLOOR AND ROOF DIAPHRAGM NAILINGS SHALL BE AS CALLED OUT ON SCHEDULES OR ON THE PLANS. EXTERIOR WALLS NOT INDICATED AS SHEAR WALLS SHALL BE SHEATHED AND NAILED TO SUPPORTING FRAMING WITH 8d NAILS AT 6" OC AT ALL PANEL EDGES AND 12" OC AT ALL INTERMEDIATE SUPPORTS.

THE USE OF NAIL GUNS WILL BE APPROVED IF NAILING INTO THE DIAPHRAGMS CAN BE INSTALLED FLUSH WITH FACE OF SHEATHING. NAIL PENETRATIONS GREATER THAN 1/16" ARE NOT ACCEPTABLE.

5. ALLOWABLE STUD AND PLATE PENETRATIONS

CUTTING AND/OR NOTCHING OF WOOD STUDS OR PLATES SHALL NOT EXCEED 25% OF THE STUD/PLATE WIDTH IN EXTERIOR AND BEARING WALLS AND SHALL NOT EXCEED 40% OF THE STUD/PLATE WIDTH IN ANY NON-BEARING PARTITIONS. BORED HOLE DIAMETER IS LIMITED TO 40% OF STUD/PLATE WIDTH IN ANY STUD AND MAY BE 60% IN NONBEARING PARTITIONS OR IF STUD IS DOUBLED. MAINTAIN 5/8" MINIMUM EDGE DISTANCE FROM HOLE EDGE.

6. GYPSUM WALLBOARD NAILING

ALL GYPSUM WALLBOARD SHALL BE NAILED TO ALL STUDS AND TOP AND BOTTOM PLATES WITH 6d COOLER NAILS OR NO. 13 GAUGE x 1 5/8" @ 7" OC (5d COOLER NAILS FOR 1/2 INCH GYPSUM SHEATHING). TYPICAL UNLESS NOTED OTHERWISE. INSTALLATION OF GWB SHALL BE SUCH THAT JOINTS ARE STAGGERED ON EACH SIDE OF A SINGLE WALL.

GENERAL

STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL, CIVIL, ELECTRICAL, AND MECHANICAL DRAWINGS FOR BIDDING AND CONSTRUCTION. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS FOR COMPATIBILITY BEFORE PROCEEDING. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING.

CONTRACTOR TO SEE ARCHITECTURAL, CIVIL, ELECTRICAL AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF PIPE, VENT, DUCT AND OTHER OPENINGS AND DETAILS NOT SHOWN ON THESE DRAWINGS.

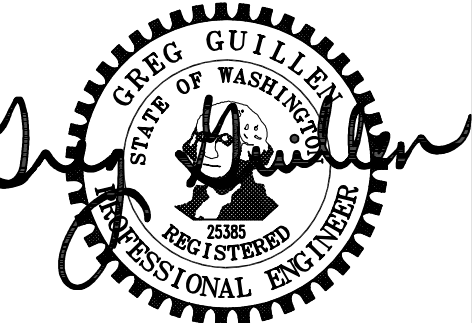
CONTRACTOR SHALL BE RESPONSIBLE FOR ERECTION STABILITY AND TEMPORARY SHORING AS NECESSARY UNTIL PERMANENT SUPPORT AND STIFFENING ARE INSTALLED.

CONTRACTOR-INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES SHOWN ON SHOP DRAWINGS ONLY WILL NOT SATISFY THIS REQUIREMENT.

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

| LEGEND | | | |
|------------------------------|--------|-----------------------------|--------|
| DEFINITION | SYMBOL | DEFINITION | SYMBOL |
| DIRECTION OF FRAMING | | NATIVE SOIL | |
| EXTENT OF FRAMING | | GRANULAR FILL | |
| COLUMNS | | STRUCTURAL STEEL | |
| COLUMN BEARING ON BEAM | | RATED SHEATHING | |
| BEAM CONTINUOUS OVER SUPPORT | | SHEAR WALL (SEE SCHEDULE) | SWX |
| CONCRETE WALL | | COLUMN MARK (SEE SCHEDULE) | |
| BEARING STUD WALL | | FOOTING MARK (SEE SCHEDULE) | |
| NON-BEARING STUD WALL | | HOLDOWN MARK (SEE SCHEDULE) | |
| BEARING STUD SHEAR WALL | | HANGER MARK (SEE SCHEDULE) | |
| NON-BEARING STUD SHEAR WALL | | FLAG NOTE (SEE PLAN NOTES) | |
| CMU WALL | | STEEL MOMENT FRAME CONN. | |

| ABBREVIATIONS | | | |
|---------------|----------------------------|-------|------------------------|
| (A) | ABOVE | GLB | GLUE-LAMINATED BEAM |
| AB | ANCHOR BOLT | HORIZ | HORIZONTAL |
| ALT | ALTERNATE | KP | KING POST |
| ARCH | ARCHITECT | KSI | KIPS PER SQUARE INCH |
| (B) | BELOW | L | ANGLE |
| BD | BAR DIAMETER | MECH | MECHANICAL |
| BLKG | BLOCKING | MF | MOMENT FRAME |
| BM | BEAM | MTL | METAL |
| BOT | BOTTOM | NS | NEAR SIDE |
| BRNG | BEARING | OC | ON CENTER |
| BTWN | BETWEEN | OPP | OPPOSITE |
| CJP | COMPLETE JOINT PENETRATION | PL | PLATE |
| CLR | CLEAR | PLCS | PLACES |
| CMU | CONCRETE MASONRY UNIT | PSI | POUNDS PER SQUARE INCH |
| COL | COLUMN | PSF | POUNDS PER SQUARE FOOT |
| CONC | CONCRETE | P/T | POST TENSIONED |
| CONN | CONNECTION | PT | PRESSURE TREATED |
| CONT | CONTINUOUS | REINF | REINFORCING |
| COORD | COORDINATE | REQ'D | REQUIRED |
| DBL | DOUBLE | SCHED | SCHEDULE |
| DET | DETAIL | SIM | SIMILAR |
| DIA | DIAMETER | SOG | SLAB ON GRADE |
| DIM | DIMENSION | STD | STANDARD |
| DIR | DIRECTION | STIFF | STIFFENER |
| EA | EACH | STL | STEEL |
| ELEV | ELEVATION | SYMM | SYMMETRICAL |
| ES | EACH SIDE | SW | SHEARWALL |
| EX | EXISTING | TOC | TOP OF CONCRETE |
| EXP | EXPANSION | TOS | TOP OF STEEL |
| FLR | FLOOR | TOW | TOP OF WALL |
| FDN | FOUNDATION | TYP | TYPICAL |
| FTG | FOOTING | UNO | UNLESS NOTED OTHERWISE |
| FS | FAR SIDE | VERT | VERTICAL |
| GC | GENERAL CONTRACTOR | WF | WIDE FLANGE |



| MARK | DATE | DESCRIPTION | PERMIT SUBMITTAL | | COMMENT RESPONSE | |
|------|------|-------------|------------------|----------|------------------|--|
| | | | 05/11/18 | 01/18/19 | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

DESIGN: JGG
 DRAWN: ZOS
 CHECK: GAG
 JOB NO: 15227.10
 DATE: 05/11/18

RUDOLF RESIDENCE
 8253 W MERCER WAY
 MERCER ISLAND, WA 98040
 STRUCTURAL NOTES
FILE NAME

SHEET:
S1.2



| MARK | DATE | DESCRIPTION |
|------|----------|------------------|
| | 05/11/18 | PERMIT SUBMITTAL |
| | 01/18/19 | COMMENT RESPONSE |

| | |
|---------|----------|
| DESIGN: | JGG |
| DRAWN: | ZOS |
| CHECK: | GAG |
| JOB NO: | 15227.10 |
| DATE: | 05/11/18 |

RUDOLF RESIDENCE
 8253 W MERCER WAY
 MERCER ISLAND, WA 98040

FOUNDATION PLAN

FILE NAME:

SHEET:

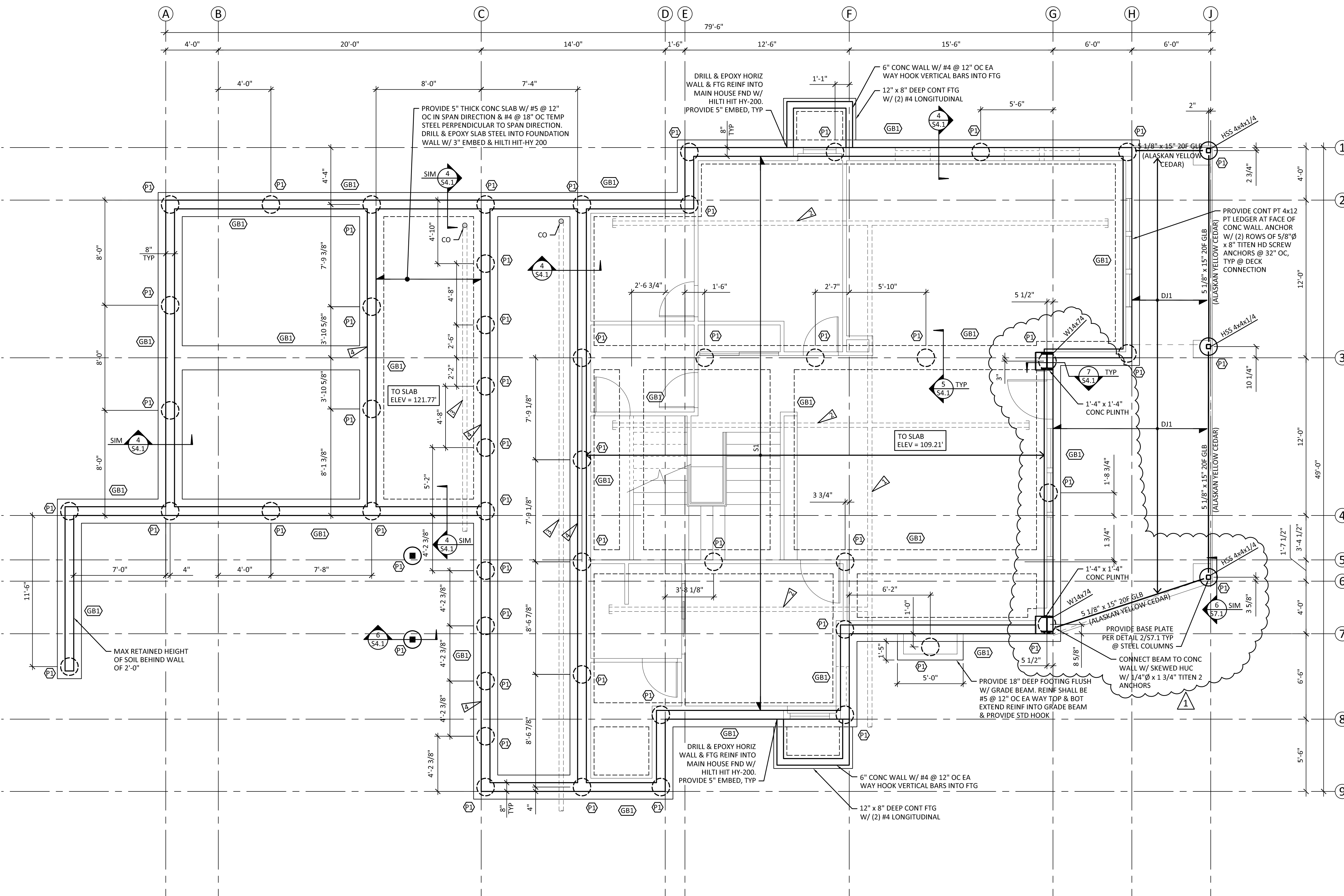
S2.1

FOUNDATION PLAN NOTES:

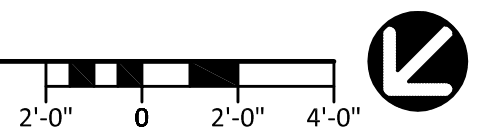
- PX INDICATES PILE TYPE. REFER TO PILE SCHEDULE ON S3.1 FOR SIZE AND REINFORCEMENT. REFER TO DETAIL 3/54.1 FOR PILE ELEVATION.
- NOTIFY THE STRUCTURAL ENGINEER AND THE GEOTECHNICAL ENGINEER IF OBSTRUCTIONS ARE ENCOUNTERED DURING THE DRILLING PROCESS. ALL FINAL PILE LOCATIONS SHALL BE PROVIDED TO THE STRUCTURAL ENGINEER FOR REVIEW.
- PILES THAT DO NOT MEET THE ACCEPTANCE CRITERIA OF THE GEOTECHNICAL ENGINEER SHALL BE REPLACED WITH A PAIR OF PILES, ORIENTED SO THAT THEY ARE ORTHOGONAL TO AND CENTERED ON THE ORIGINAL PILE LOCATION. ABANDONED HOLES SHALL BE FILLED WITH GROUT UP TO THE BOTTOM OF GRADE BEAM OR BOTTOM OF SLAB ELEVATION. THE CONTRACTOR SHALL WAIT A MINIMUM OF 24 HOURS BEFORE DRILLING AT NEW PILE LOCATIONS.
- INDICATES 7" STRUCTURAL SLAB W/ #5 BARS @ 10" OC IN DIRECTION OF SPAN. REINF SHALL BE CENTERED IN SLAB. SX PROVIDE #4 @ 12" OC TEMPERATURE STEEL PERPENDICULAR TO SLAB SPAN. SLAB SHALL BE POURED OVER A 10 MIL VAPOR BARRIER OVER 4" OF 5/8" CLEAN CRUSHED ROCK OR PEA GRAVEL.
- REFER TO SHEET S4.1 AND S4.2 FOR FOUNDATION DETAILS.
- PLACE ALL REINFORCEMENT PER THE STRUCTURAL NOTES AND FOUNDATION DETAILS. REFER TO SHEET S1.1 FOR ADDITIONAL CONCRETE DETAILING REQUIREMENTS.
- FOUNDATION LEVEL HOLDOWNS ARE SHOWN ON MAIN AND UPPER FLOOR FRAMING PLAN. REFER TO HOLDOWN SCHEDULE ON SHEET S3.1 FOR HOLDOWN TYPES AND MAIN AND UPPER FLOOR FRAMING PLAN FOR HOLDOWN ANCHOR BOLT LOCATIONS.
- REFER TO MAIN AND UPPER FLOOR FRAMING PLAN AND SHEAR WALL SCHEDULE ON SHEET S3.1 FOR LOCATION OF SHEAR WALL ANCHOR BOLTS. ANCHORAGE AT NON-SHEAR WALLS SHALL BE PER STRUCTURAL NOTES.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS, WALL LOCATIONS, AND CONCRETE ROUGH OPENINGS WITH ARCHITECTURAL DRAWINGS AND NOTIFY ALL PARTIES OF ANY DISCREPANCIES.
- REFER TO DETAIL 3/54.2 FOR PIPE PENETRATIONS THROUGH CONCRETE WALL OR FOOTINGS.
- CONTRACTOR SHALL PROVIDE FOOTING AND SLAB SUBSTRATE PREPARATION, WATERPROOFING, AND BACKFILL & DRAINAGE BEHIND RETAINING WALLS PER GEOTECHNICAL REPORT. GEOTECHNICAL ENGINEER SHALL OBSERVE EXCAVATED SOIL CONDITIONS DURING CONSTRUCTION (AND GROUNDWATER CONDITIONS) AS REQUIRED, AND PROVIDE ADDITIONAL RECOMMENDATIONS IF NECESSARY BASED ON ACTUAL SITE CONDITIONS.
- THE STRUCTURAL ENGINEER SHALL BE CONTACTED PRIOR TO PLACING THE STRUCTURAL SLAB. THIS SLAB SHALL BE PLACED IN DRY WEATHER OR SHALL MEET THE PROVISIONS OF ASTM E-1643 FOR INSTALLATION GUIDELINES FOR USE OF PROTECTION/BLOTTER MATERIAL ABOVE VAPOR BARRIER. MINIMUM VAPOR BARRIER SHALL BE 10 MILS (STEGO WRAP 877-464-7834)
- AT CONCRETE WALLS EXPOSED TO EARTH ABOVE SLAB ELEVATION PROVIDE WATERPROOFING SYSTEM AS FOLLOWS: CCW BARRICOAAT-5 OR R AT 90 WET MILS/60 DRY MILS BY CARLISLE OR ARCHITECT APPROVED EQUAL APPLY MIRA DRAIN 6000 DRAINAGE COMPOSITE OVER SYSTEM.
- PROVIDE 5" THICK CONC SLAB W/ #5 @ 12" OC IN SPAN DIRECTION AND #4 @ 18" OC TEMPERATURE STEEL. DRILL AND EPOXY LAPPED DOWELS TO MATCH SLAB REINF. W/ HILTI HIY-200 AND 3" EMBED TYP ALL SIDES.

FLAG NOTES:

- INDICATES 4"Ø PVC TIGHTLINE DRAINAGE SYSTEM CONNECTING SHORING WALL DRAINAGE SYSTEM TO THE INTO DRAINAGE STUB AT NW CORNER OF BUILDING SEE CIVIL PLANS.
- INDICATES UNDERSLAB DRAINAGE SYSTEM CONSISTING OF 4"Ø PVC PERFORATED PIPE WRAPPED IN MIRAFI 140N OR SUPAC 4NP & IN A 12" x 12" PEA GRAVEL TRENCH SLOPE TO EXTERIOR POINT OF CONNECTION.
- PROVIDE MIRA DRAIN 6000 DRAINAGE MATTING NEAR BOTTOM OF GRADE BEAM & BELOW SLAB ELEVATION SLOPE TO THE INTO EXTERIOR POINT OF CONNECTION.
- AT WALL RETAINING OVER 4'-0" OF SOIL (BUT NO GREATER THAN 6'-0") PROVIDE #5 VERTICAL BARS @ 12" OC, CENTERED IN WALL. WALLS SHALL RETAIN NO MORE THAN 6'-0" OF SOIL.



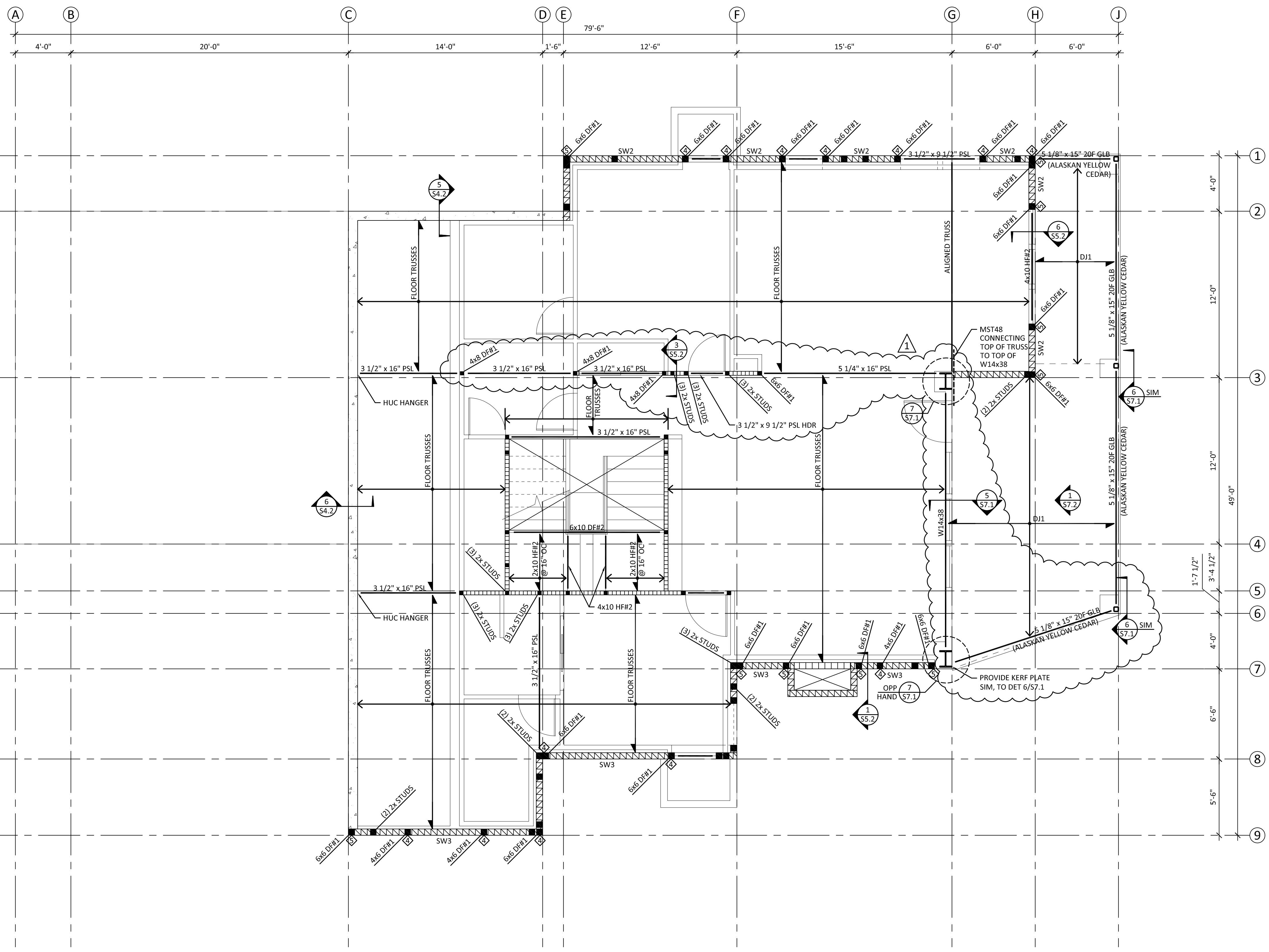
1 FOUNDATION PLAN
 SCALE: 1/4" = 1'-0"



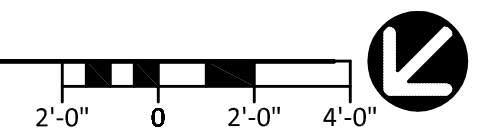


TYPICAL FLOOR FRAMING PLAN NOTES:

- FLOOR SHEATHING SHALL BE 3/4" PI 40/20 W/ 10d COMMON NAILS SPACED AT 6" OC AT ALL DIAPHRAGM BOUNDARIES, PANEL EDGES AND SHEAR WALLS AND 10" OC AT INTERMEDIATE FRAMING. FOR SHEATHING LAYOUT AND NAILING REFER TO DETAIL 2/SS.1
- COLUMNS AND BEARING WALLS SHOWN ON PLANS SHALL BE CONTINUED DOWN TO THE FOUNDATION UNLESS CARRIED BY A BEAM BELOW.
- REFER TO SHEET SS.1 THRU S6.1 FOR TYPICAL FLOOR FRAMING DETAILS.
- INDICATES COLUMN BELOW AND BEAM SHALL BE CONTINUED OVER COLUMN, TYP.
- CONTRACTOR SHALL HAVE THE OPTION TO DRILL A 1 1/2" Ø HOLE CENTERED IN THE DEPTH AND AT THE THIRD POINT OF THE SPAN FOR ALL WOOD FLUSH BEAMS SHOWN ON THE PLAN.
- WALLS SHOWN ON THE FRAMING PLANS ARE WALLS BELOW THE FRAMING LEVELS INDICATED. HOLDOWNS SHALL BE PLACED AT THE BASE OF THE WALLS SHOWN.
- TYPICAL HEADERS AT BEARING LOCATION SHALL BE 4x6 HF#2 UNO SUPPORTED BY A MINIMUM OF (1) CRIPPLE STUD AND (1) FULL HEIGHT STUD.
- COLUMNS NOT OTHERWISE SHOWN OR CALLED OUT ON PLAN SHALL BE (2) 2x STUDS.
- UNLESS NOTED OTHERWISE ALL STUDS SHALL BE HF STUD GRADE AND SPACED AT 16" OC.
- UNLESS NOTED OTHERWISE, ALL BEAM-TO-BEAM CONNECTIONS SHALL BE SIMPSON HU SERIES FACE MOUNT HANGERS W/ MAX NAILING.
- ALL EXTERIOR GLU LAM BEAM DECK MEMBERS 20F CEDAR.
- FLOOR TRUSSES SHALL BE PRE-ENGINEERED BY OTHERS & SPACED @ 16" OC, TYP
- DRAG TRUSS ON GRID G FROM GRIDS 1-3 SHALL BE NAILED TO FLOOR DIAPHRAGM @ 4" OC TRUSS MANUFACTURE TO ACCOUNT FOR MST STRAP @ TOP CHORD.



1 MAIN FLOOR FRAMING PLAN
SCALE: 1/4" = 1'-0"



RUDOLF RESIDENCE
8253 W MERCER WAY
MERCER ISLAND, WA 98040

MAIN FLOOR FRAMING PLAN

SHEET:
S2.2

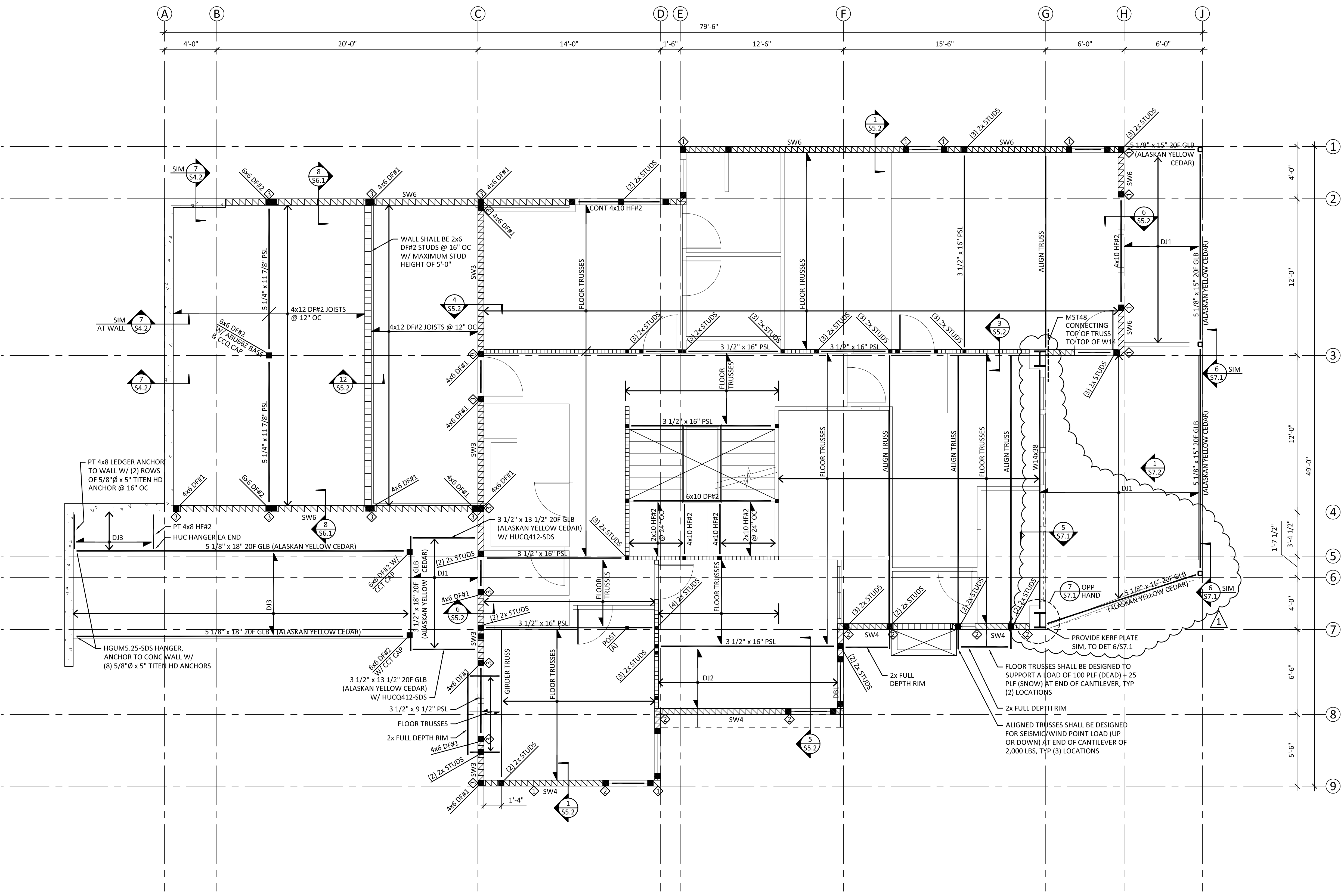
| MARK | DATE | DESCRIPTION |
|------|----------|------------------|
| △ | 05/11/18 | PERMIT SUBMITTAL |
| | 01/18/19 | COMMENT RESPONSE |

DESIGN: JGG
DRAWN: ZOS
CHECK: GAG
JOB NO: 15227.10
DATE: 05/11/18

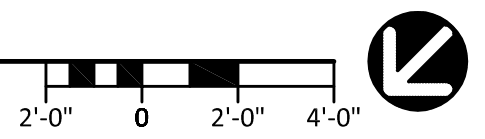


THIS FLOOR FRAMING PLAN NOTES:

- REFER TO S2.2 FOR TYPICAL FLOOR FRAMING PLAN NOTES
- GARAGE FLOOR SHALL BE 3 1/2" CONCRETE TOPPING SLAB OVER 1 1/8" T&G DECKING. CONCRETE SHALL BE REINF W/ #3 @ 18" OC EA WAY. FLOOR DECKING SHALL HAVE 16d NAILS @ 6" OC AT ALL PANEL EDGES & DIAPHRAGM BOUNDARIES & 10" OC AT INTERMEDIATE FRAMING.
- THE DECK GLU LAM BEAMS ARE CEDAR & WEATHER RESISTANT.
- DRAG TRUSS ON GRID G FROM GRIDS 1-3 SHALL BE NAILED TO FLOOR DIAPHRAGM @ 4" OC TRUSS MANUFACTURE TO ACCOUNT FOR MST STRAP @ TOP CHORD.



1 UPPER FLOOR FRAMING PLAN
SCALE: 1/4" = 1'-0"



RUDOLF RESIDENCE
8253 W MERCER WAY
MERCER ISLAND, WA 98040

UPPER FLOOR FRAMING PLAN

SHEET:

S2.3

| MARK | DATE | DESCRIPTION |
|------|----------|------------------|
| | 05/11/18 | PERMIT SUBMITTAL |
| | 01/18/19 | COMMENT RESPONSE |

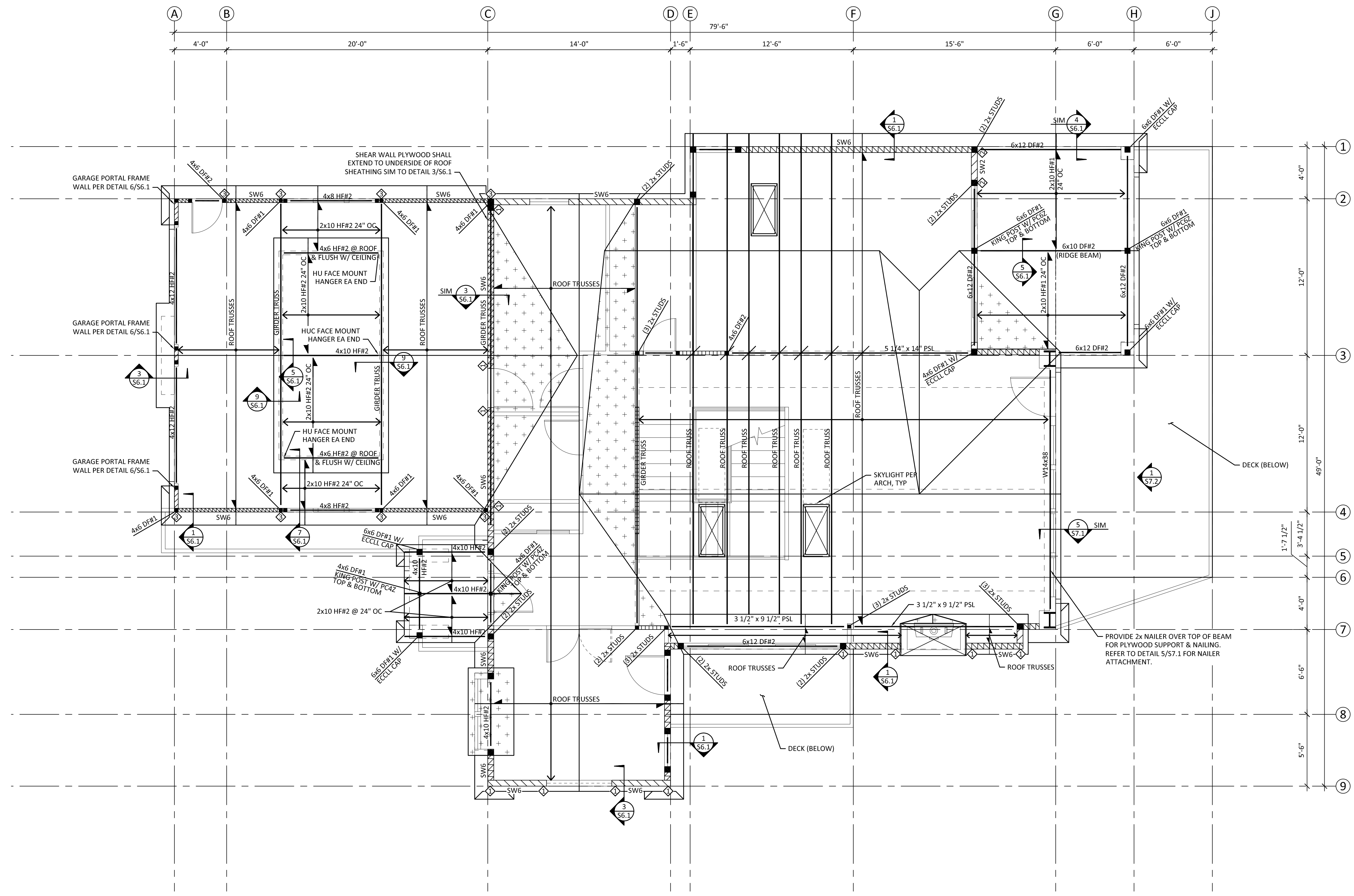
DESIGN: JGG
DRAWN: ZOS
CHECK: GAG
JOB NO: 15227.10
DATE: 05/11/18



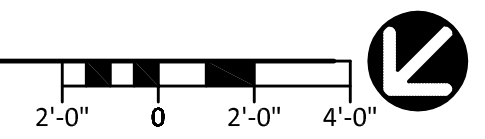
01/18/19

TYPICAL ROOF FRAMING PLAN NOTES:

1. WALLS SHOWN ON ROOF FRAMING PLAN ARE WALLS BELOW ROOF FRAMING.
2. BEAMS SHOWN ON ROOF FRAMING PLAN SHALL BE ABOVE DOUBLE TOP PLATE UNLESS USED AS A DOOR OR WINDOW HEADER. TRUSS MFR SHALL DESIGN TRUSSES TO ACCOMMODATE BEAMS ABOVE DOUBLE TOP PLATE.
3. ROOF SHEATHING SHALL BE 5/8" PI 40/20 WITH 8d COMMON NAILS SPACED AT 6" OC AT ALL DIAPHRAGM BOUNDARIES, PANEL EDGES, SHEAR WALLS, COLLECTOR TRUSSES, AND BLOCKING OR TRUSS BLOCKING PANELS INDICATED ON PLANS. NAILING AT INTERMEDIATE FRAMING SHALL BE 8d COMMON NAILS @ 12" OC. REFER TO DETAIL 2/S5.1 FOR SHEATHING LAYOUT AND NAILING.
4. UNLESS NOTED OTHERWISE, HEADERS AT ALL EXTERIOR WALLS SHALL BE 4x6 HF#2 WHERE MAXIMUM SPAN = 5'-5".
5. UNLESS NOTED OTHERWISE, DOOR HEADERS AT INTERIOR BEARING WALLS SHALL BE 4x6 HF#2 WHERE MAXIMUM SPAN = 4'-6".
6. STUD WALL FRAMING SHALL BE 2x HF STUDS @ 16" OC FOR ALL STUD WALLS SHOWN ON THE PLAN.
7. REFER TO SHEET S6.1 FOR TYPICAL ROOF FRAMING DETAILS.
8. REFER TO DETAIL 3/S5.1 FOR CONSTRUCTION OF MULTIPLE STUD COLUMNS.
9. INDICATES COLUMN BELOW AND BEAM SHALL BE CONTINUED OVER COLUMN, TYP.
10. REFER TO THE STRUCTURAL NOTES SHEET FOR COLUMNS SUPPORTING TYPICAL BEARING WALL HEADER BEAMS.
11. HATCHED AREAS INDICATE VALLEY TRUSSES @ 24" OC APPLIED ABOVE PLYWOOD SHEATHING. REFER TO TYPICAL OVERFRAMING DETAIL ON S6.1.
12. COLUMNS AND BEARING WALLS SHOWN ON PLAN SHALL BE CONTINUED DOWN TO THE FOUNDATION UNLESS CARRIED BY A BEAM BELOW.
13. HOLD-DOWNS SHOWN ON ROOF FRAMING PLAN SHALL BE PLACED ON UPPER FLOOR LEVEL.
14. ROOF TRUSSES SHALL BE PRE-ENGINEERED BY OTHERS AND SPACED AT 24" OC, TYP.
15. ATTACH ALL ROOF TRUSSES TO WALLS BELOW WITH SIMPSON H2.5 HURRICANE TIES.
16. ALIGN (2) STUDS MIN BELOW ENDS OF GIRDER TRUSSES UNO ON PLANS.
17. PROVIDE ATTIC ACCESS AND VENTILATION OPENINGS IN ROOF SHEATHING AT OVERFRAMED AREAS PER THE ARCHITECTURAL DWGS.



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



RUDOLF RESIDENCE
8253 W MERCER WAY
MERCER ISLAND, WA 98040

ROOF FRAMING PLAN

FILE NAME:

SHEET:

S2.4

DESIGN: JGG
DRAWN: ZOS
CHECK: GAG
JOB NO: 15227.10
DATE: 05/11/18

| MARK | DATE | DESCRIPTION | PERMIT SUBMITTAL | COMMENT RESPONSE |
|------|----------|-------------|------------------|------------------|
| | 05/11/18 | | | |
| | 01/18/19 | | | |

| CONCRETE PILE SCHEDULE | | | | | |
|------------------------|-----------|------------------|---|--------|-----------------------|
| MARK | PILE SIZE | PILE REINFORCING | TIES / SPIRALS | LAYOUT | PILE LATERAL CAPACITY |
| P1 | 16"Ø | (6) #6 | #3 SPIRAL W/ 3" PITCH (3) TURNS AT TOP & BOT OF CAGE | | 5 KIPS |

| BEAM AND GIRDER SCHEDULE | | | | | | |
|--------------------------|------|----|--------|--------|----------|------------------------------|
| MARK | SIZE | | BOTTOM | TOP | STIRRUPS | |
| | W | D | | | NO SIZE | SPACING FROM FACE OF SUPPORT |
| GB1 | 22 | 18 | (4) #6 | (4) #6 | #3 | (1) @ 2", BALANCE @ 7" OC |

NOTE:
REFER TO DET 4 & 8/S4.1 FOR PLACEMENT OF REINF.

| SHEAR WALL SCHEDULE | | | | | | | | |
|---------------------|---------------------|---|-----------------------------------|--------------------------------------|--------------------------------------|--|----------------------------|----------------------|
| TYPE | APA-RATED SHEATHING | MIN FRAMING AT ADJOINING PANEL EDGES (SEE NOTE 5) | SHEAR WALL NAILING AT PANEL EDGES | RIM JOIST OR BLOCK CONN TO TOP PLATE | SILL PLATE NAILING TO RIM/BLKG BELOW | SILL PLATE ANCHOR BOLT TO SLAB OR FOUNDATION | FOUNDATION SILL PLATE SIZE | SHEAR CAPACITY (PLF) |
| SW6 | 15/32" ONE SIDE | 2x STUD AND BLKG | 0.131"Ø x 2 1/2" @ 6" OC | LTP4 OR A35 @ 24" OC | 0.131"Ø x 3 1/4" @ 6" OC | 5/8"Ø AB @ 5'-0" OC | 2x | 242 |
| SW4 | 15/32" ONE SIDE | 2x STUD AND BLKG | 0.131"Ø x 2 1/2" @ 4" OC | LTP4 OR A35 @ 20" OC | 0.131"Ø x 3 1/4" @ 4" OC | 5/8"Ø AB @ 4'-0" OC | 2x | 350 |
| SW3 | 15/32" ONE SIDE | (2) 2x STUD AND 2x FLAT BLKG | 0.131"Ø x 2 1/2" @ 3" OC | LTP4 OR A35 @ 15" OC | 0.131"Ø x 3 1/4" @ 3" OC | 5/8"Ø AB @ 3'-0" OC | 2x | 455 |
| SW2 | 15/32" ONE SIDE | 3x STUD AND 2x FLAT BLKG | 0.131"Ø x 2 1/2" @ 2" OC | LTP4 OR A35 @ 12" OC | 0.131"Ø x 3 1/4" @ 2.5" OC | 5/8"Ø AB @ 2'-6" OC | 2x | 595 |
| 2SW4 | 15/32" BOTH SIDES | (2) 2x STUD AND BLKG | 0.131"Ø x 2 1/2" @ 4" OC | LTP4 OR A35 @ 10" OC | 0.131"Ø x 3 1/4" @ 2" OC | 5/8"Ø AB @ 2'-0" OC | 2x | 706 |
| 2SW3 | 15/32" BOTH SIDES | (2) 2x STUD AND BLKG | 0.131"Ø x 2 1/2" @ 3" OC | LTP4 OR A35 @ 7.5" OC | 0.131"Ø x 3 1/4" @ 1.5" OC | 5/8"Ø AB @ 1'-6" OC | 2x | 910 |
| 2SW2 | 15/32" BOTH SIDES | 3x STUD AND BLKG | 0.131"Ø x 2 1/2" @ 2" OC | LTP4 OR A35 @ 6" OC | 0.131"Ø x 3 1/4" @ 1.5" OC | 5/8"Ø AB @ 1'-0" OC | 2x | 1190 |

NOTES:
1. REFER TO THE TYPICAL SHEAR WALL DETAIL.
2. THE VALUES IN THIS TABLE ARE APPROPRIATE FOR HF GRADE STUDS AND HF GRADE PLATES & RIM/BLOCKING.
3. NAILS AT ADJOINING PANEL EDGES SHALL BE STAGGERED EACH SIDE OF THE COMMON JOINT.
4. WHERE PANELS ARE APPLIED ON BOTH FACES OF A WALL, PANEL JOINTS SHALL BE OFFSET TO FALL ON DIFFERENT FRAMING MEMBERS, OR FRAMING SHALL BE 3x AT ADJOINING PANEL EDGES AND NAILS SHALL BE STAGGERED.
5. WHERE TABLE SPECIFIES (2) 2x FRAMING, CONNECT (2) 2x STUDS AND BLOCKING AS FOLLOWS: SW3 = (2) 0.131"Ø @ 3.5" OC, 2SW4 = 0.131"Ø @ 2.5" OC, 2SW3 = (2) 0.131"Ø @ 1.5" OC.
6. NOTE THAT 3x FRAMING MAY BE USED IN LIEU OF (2) 2x FRAMING SPECIFIED IN TABLE.
7. INTERMEDIATE FRAMING TO BE WITH 2x MINIMUM MEMBERS. FIELD NAILING 12" OC MAXIMUM.
8. AT ALL 5/8"Ø SILL PLATE ANCHOR BOLTS, INSTALL 1/4" x 3" x 3" PLATE WASHERS. EDGE OF PLATE WASHER SHALL BE WITHIN 1/2" OF SHEATHED EDGE. FOR DOUBLE SIDED SHEAR WALLS, USE WIDER PLATE WASHERS AS REQUIRED TO MEET THIS REQUIREMENT.
9. PROVIDE A MINIMUM OF 7" EMBEDMENT FOR AB INTO FOUNDATION OR STEM WALL.
10. 7/16" SHEATHING MAY BE USED IN PLACE OF 15/32" SHEATHING PROVIDED ALL STUDS ARE SPACED 16" OC OR PANELS ARE APPLIED WITH LONG DIMENSION ACROSS STUDS.

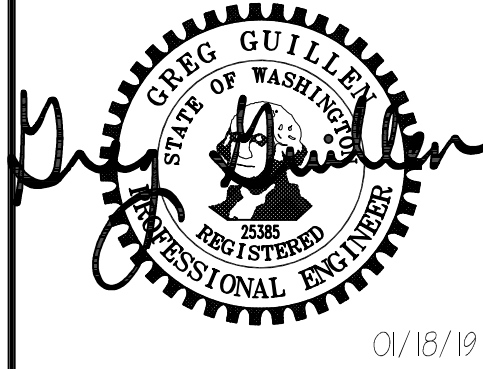
| HOLDOWN SCHEDULE | | | | | |
|------------------|-------|----------------|-------------------------------|--------------------------|---------------|
| MARK | TYPE | MIN CHORD SIZE | STUD NAILS OR BOLTS | ANCHOR BOLT (SEE NOTE 4) | CAPACITY (LB) |
| 1 | MST48 | (2) 2x | (17) 16d EA END | - | 3,640 |
| 2 | MST72 | (2) 2x | (31) 16d EA END | - | 6,475 |
| 3 | HDU8 | 4x DF#2 | (20) SDS 1/4" x 2 1/2" SCREWS | 7/8"Ø | 6,970 |
| 4 | HDU11 | 6x DF#2 | (30) SDS 1/4" x 2 1/2" SCREWS | 1"Ø | 9,535 |
| 5 | HDU14 | 6x DF#2 | (36) SDS 1/4" x 2 1/2" SCREWS | 1"Ø | 14,445 |

NOTES:
1. REFER TO THE LATEST SIMPSON STRONG-TIE CATALOG FOR ADDITIONAL INSTALLATION REQUIREMENTS.
2. REFER TO DETAIL 7/SS.2 FOR INSTALLATION OF MST FLOOR TO FLOOR STRAPS. REFER TO DETAILS 8 & 9/SS.2 FOR CONNECTION OF STRAP TO BEAM BELOW.
3. INSTALL HD HOLDDOWNS AT FOUNDATION WALLS OR THICKENED SLAB FOOTINGS PER DETAIL 4/S4.2.
4. AT ALL HOLDOWN CHORDS, PROVIDE PANEL EDGE NAILING PER SHEAR WALL SCHED.

| JOIST SCHEDULE | | | |
|----------------|------------------|---------|----------------|
| MARK | JOIST | SPACING | REMARKS |
| DJ1 | 2x12 HF#2 | 16" OC | SEE NOTE 2 & 3 |
| DJ2 | 1 1/2" x 16" LSL | 16" OC | SEE NOTE 1 & 2 |
| DJ3 | 2x8 HF#2 | 16" OC | SEE NOTE 2 & 3 |

NOTES:
1. FOR JOIST HANGERS REFER TO THE LATEST SIMPSON STRONG-TIE CATALOG FOR ALL INSTALLATION REQUIREMENTS.
2. SOLID SAWN DECK JOISTS SHALL HANGER OFF THE WALL RIM USING LU SERIES FACE MOUNT HANGERS.
3. ALL LUMBER EXPOSED TO WEATHER SHALL BE PRESSURE TREATED PER STRUCTURAL NOTES.

ENGINEERING
250 4TH AVE. S., SUITE 200
EDMONDS, WASHINGTON 98020
PHONE (425) 778-8500
FAX (425) 778-5536



| MARK | DATE | DESCRIPTION | PERMIT SUBMITTAL | |
|------|----------|-------------|------------------|----------|
| | | | DATE | RESPONSE |
| | 05/11/18 | | | |
| | 07/18/19 | | | |

DESIGN: JGG
DRAWN: ZOS
CHECK: GAG
JOB NO: 15227.10
DATE: 05/11/18

RUDOLF RESIDENCE
8253 W MERCER WAY
MERCER ISLAND, WA 98040
FILE NAME: SCHEDULES



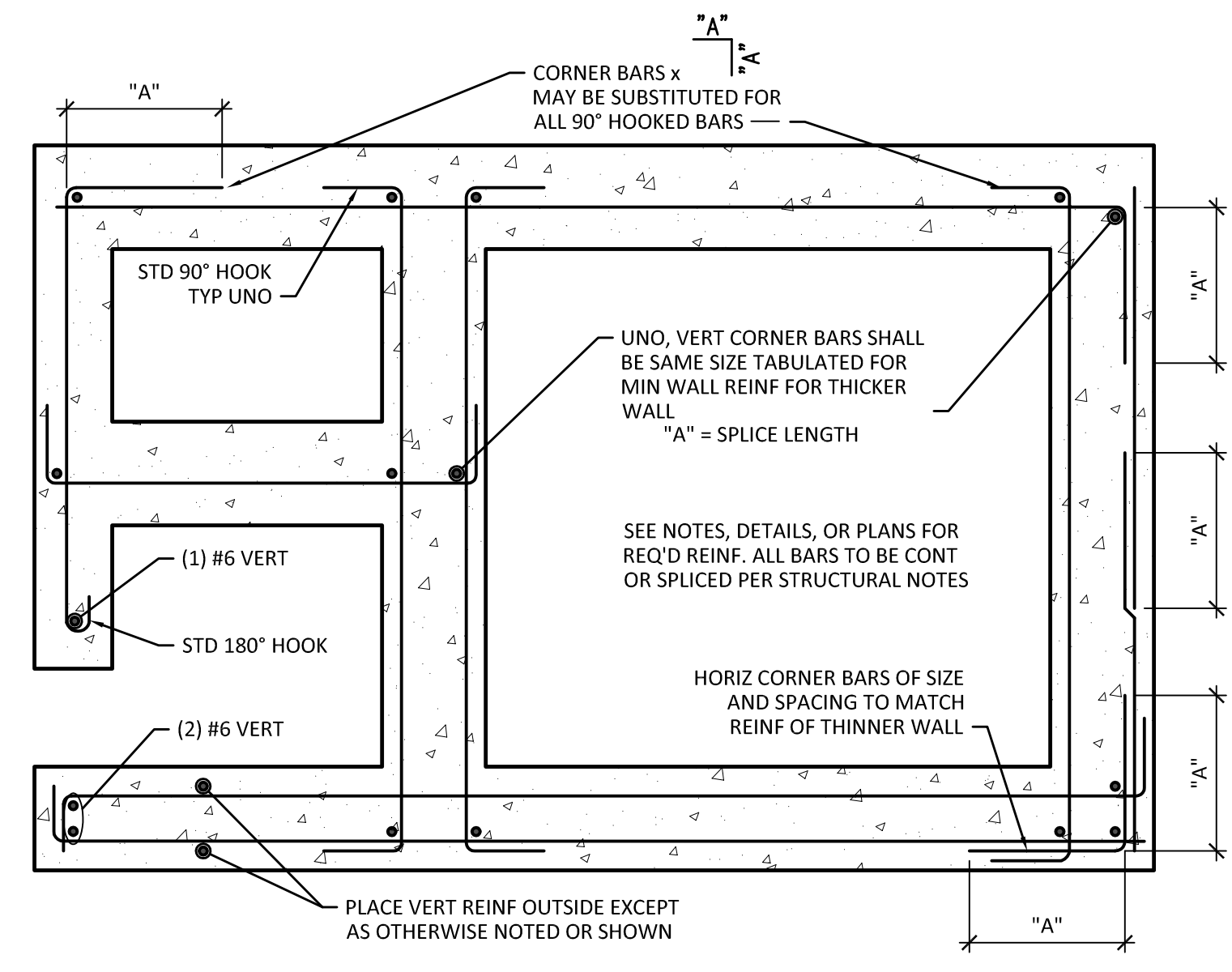
| MARK | DATE | DESCRIPTION |
|------|----------|------------------|
| | 05/11/18 | PERMIT SUBMITTAL |
| | 01/18/19 | COMMENT RESPONSE |

DESIGN: JGG
 DRAWN: ZOS
 CHECK: GAG
 JOB NO: 15227.10
 DATE: 05/11/18

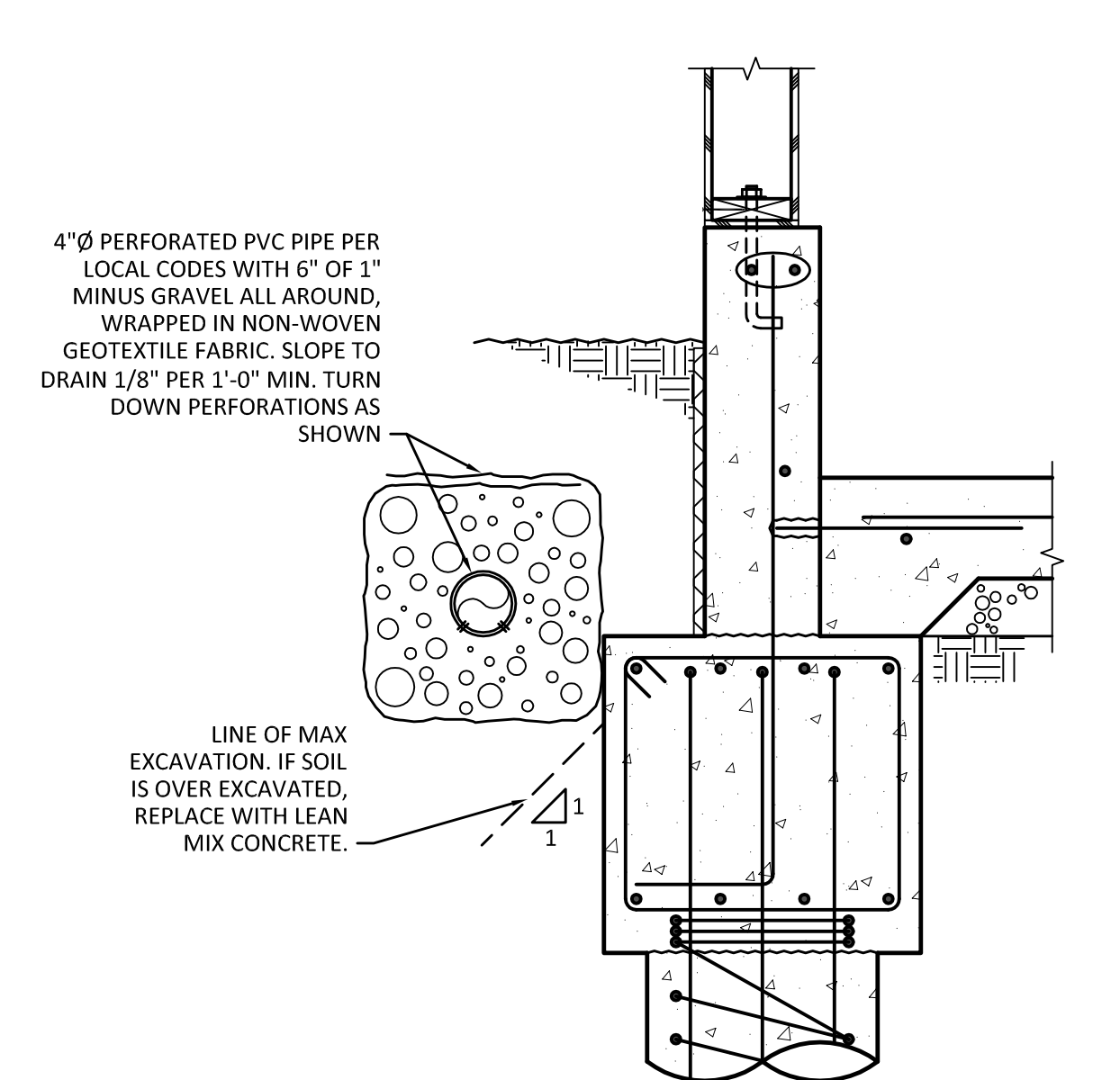
RUDOLF RESIDENCE
 8253 W MERCER WAY
 MERCER ISLAND, WA 98040

FOUNDATION DETAILS

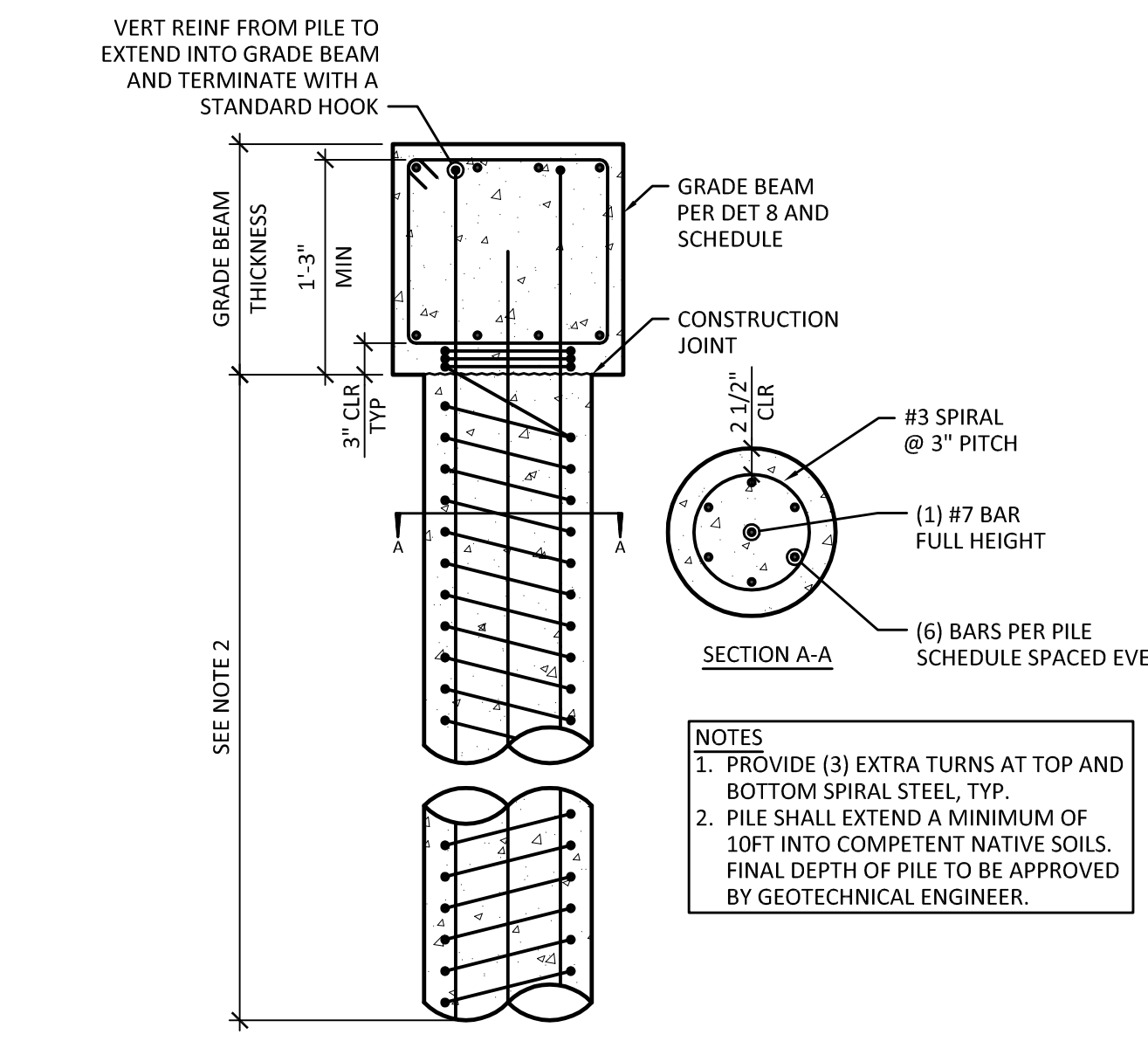
SHEET:
S4.1



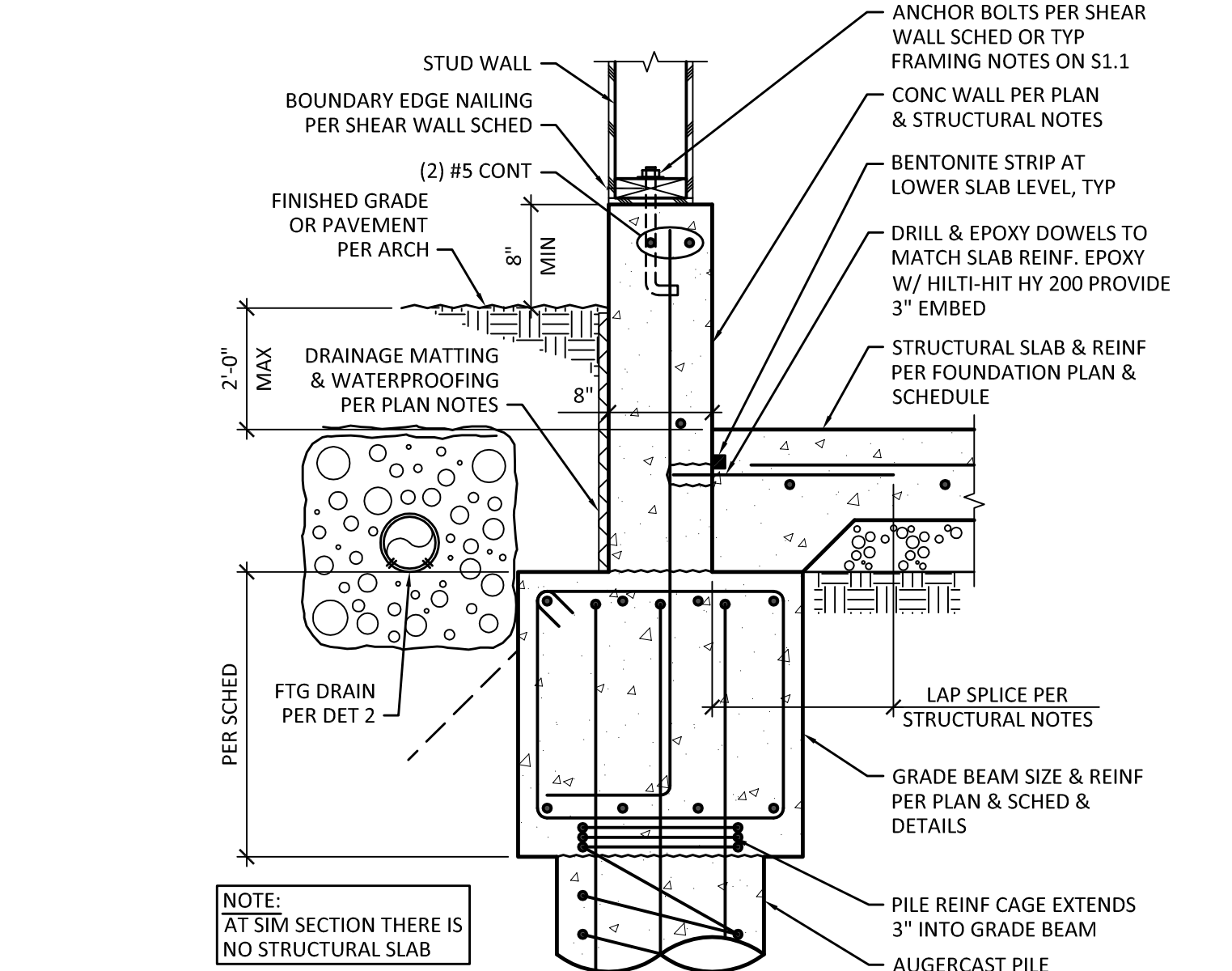
1 TYPICAL CONCRETE WALL REINFORCING DETAIL
 SCALE: NTS



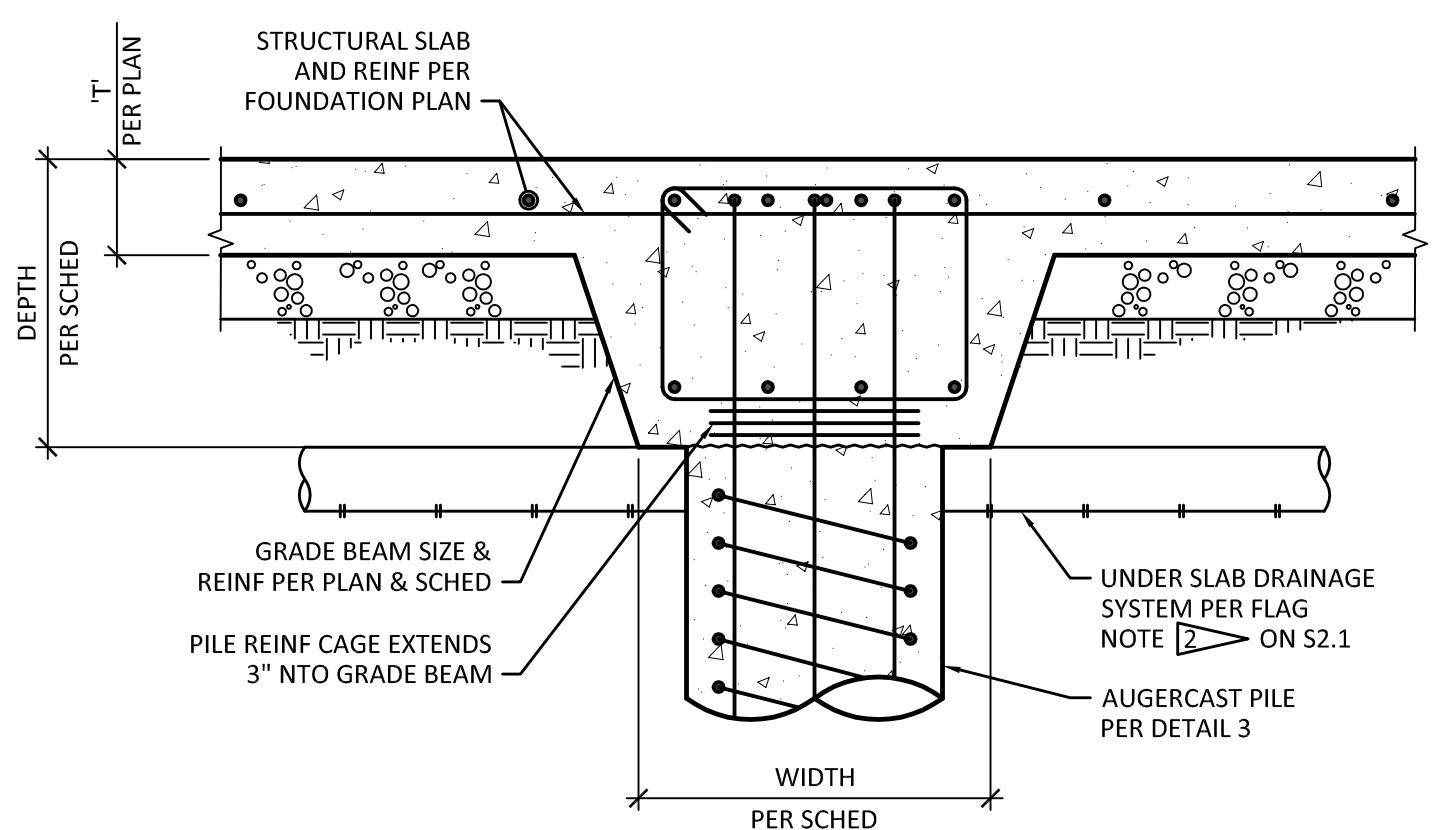
2 TYPICAL FOOTING DRAIN
 SCALE: 1" = 1'-0"



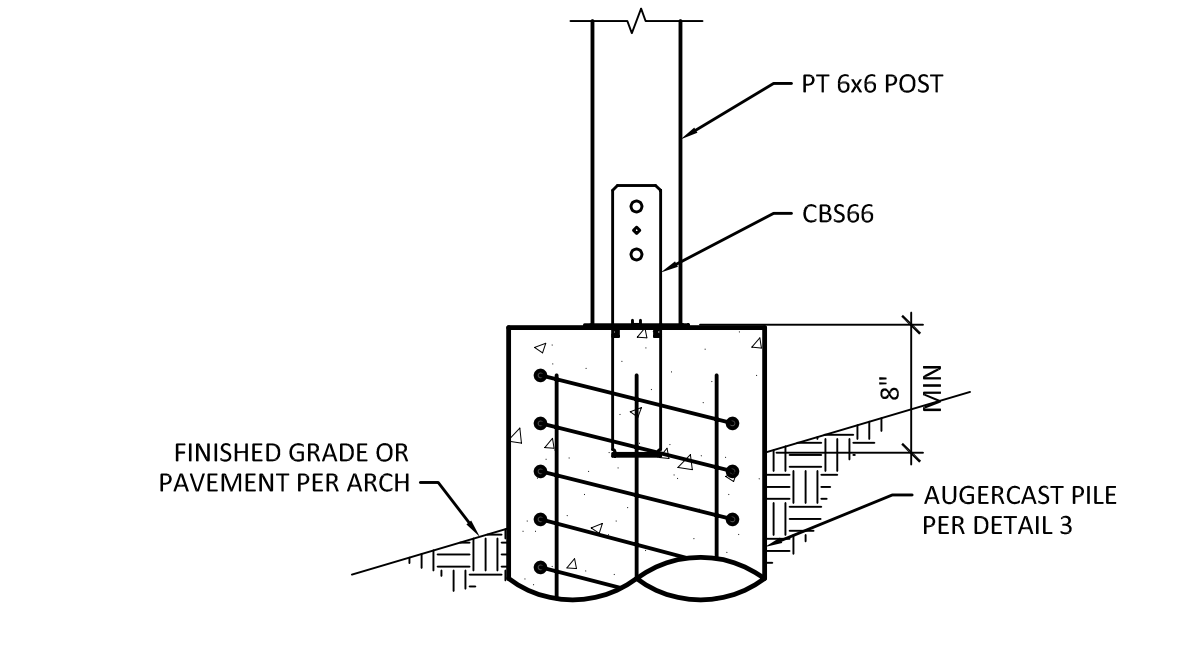
3 PILE ELEVATION
 SCALE: 3/4" = 1'-0"



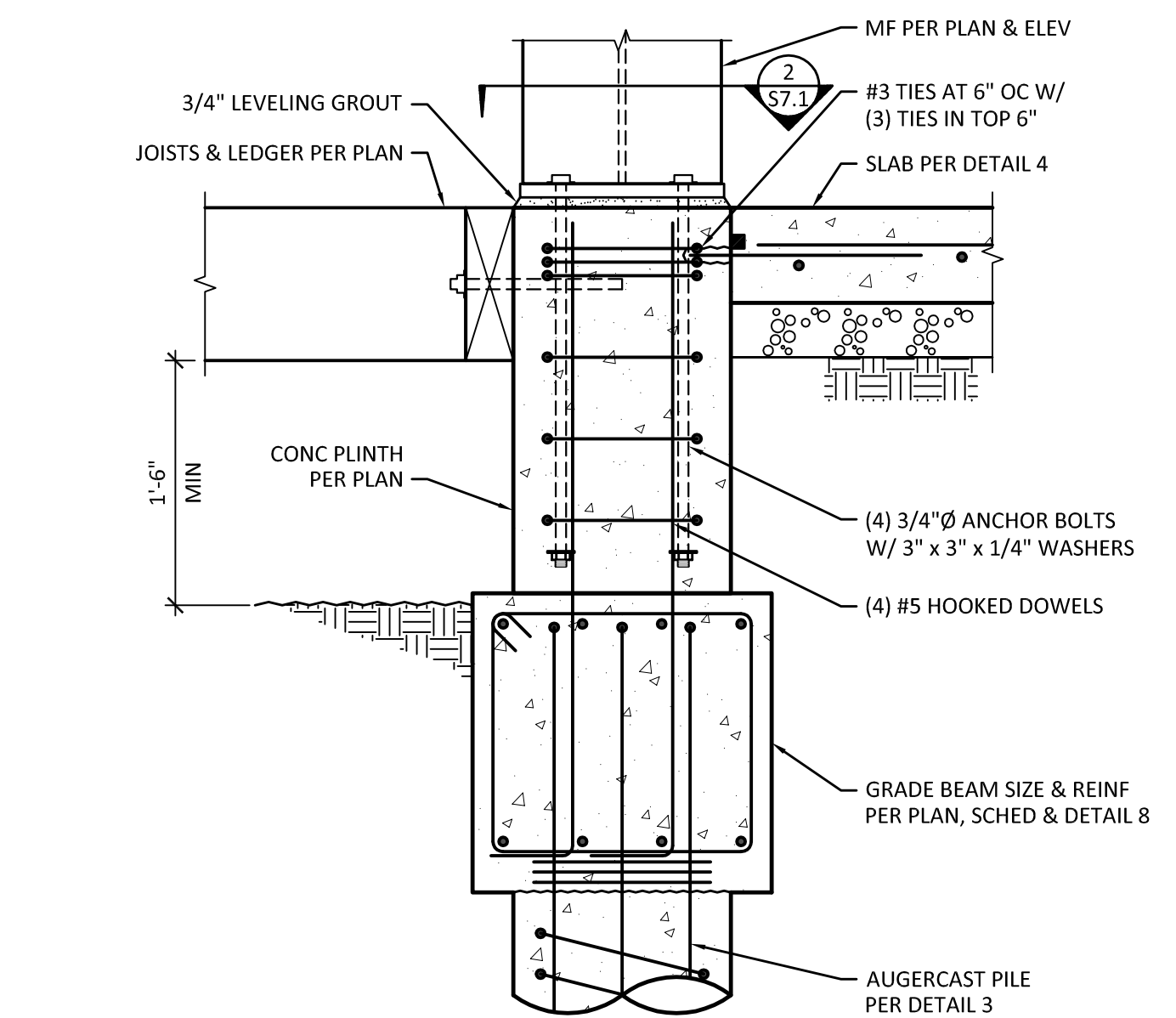
4 SECTION
 SCALE: 1" = 1'-0"



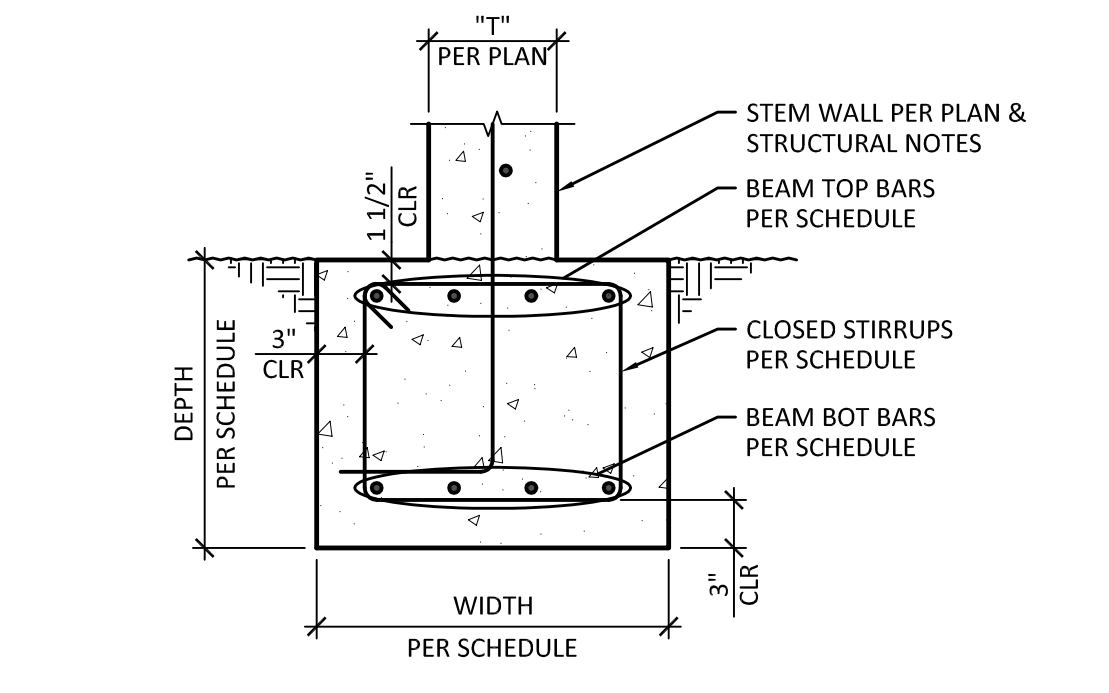
5 SECTION
 SCALE: 1" = 1'-0"



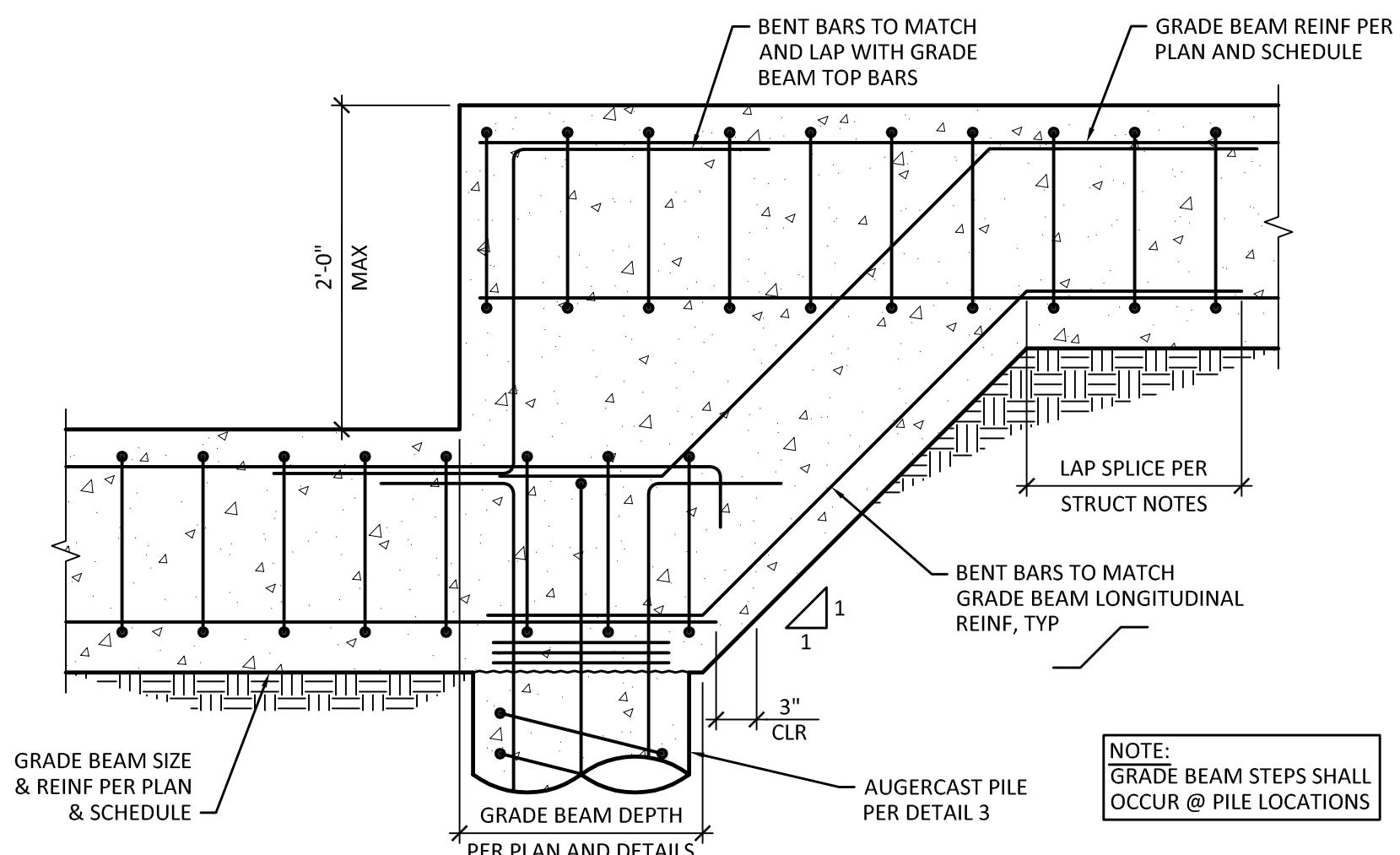
6 SECTION
 SCALE: 1" = 1'-0"



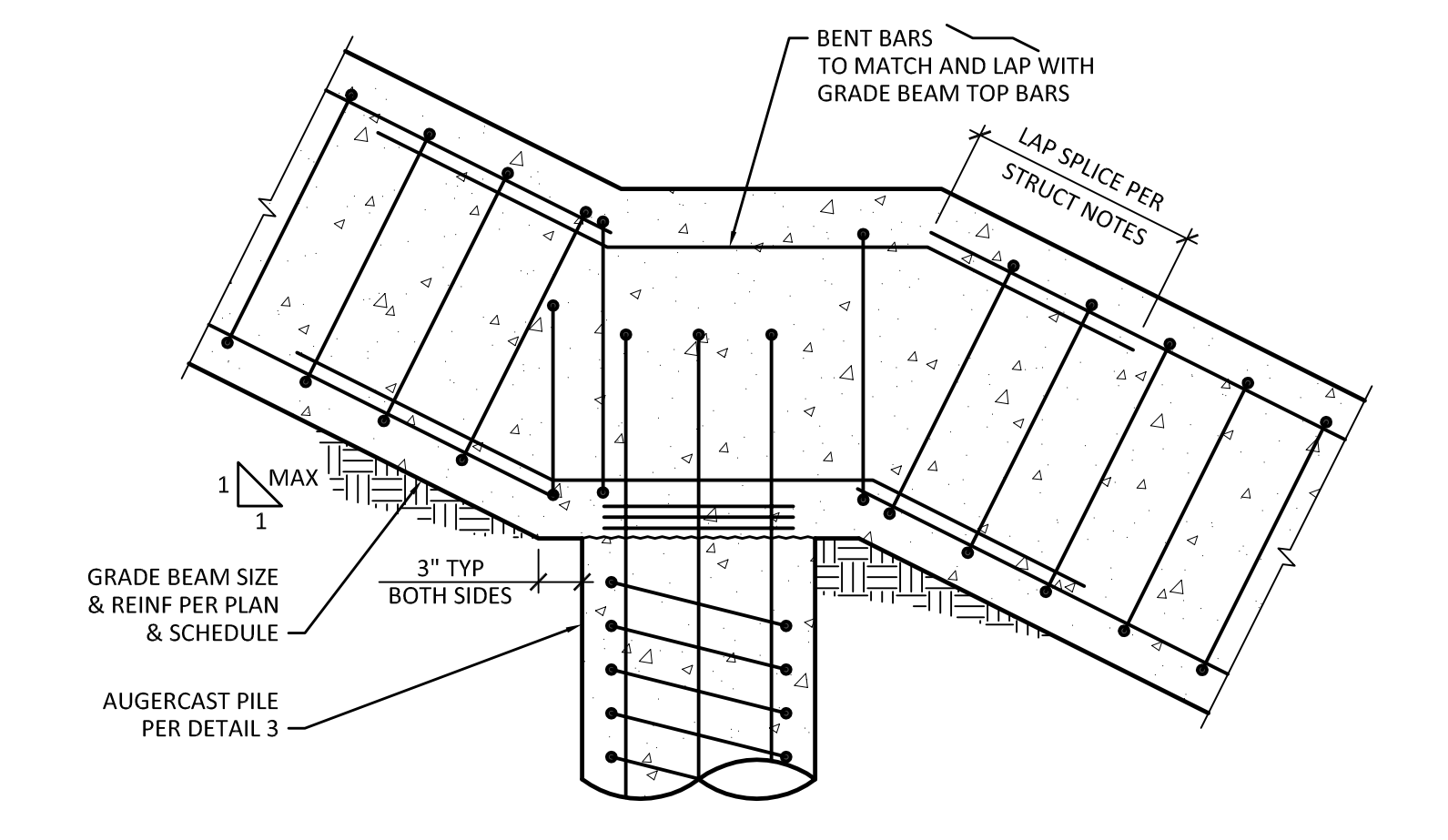
7 SECTION
 SCALE: 1" = 1'-0"



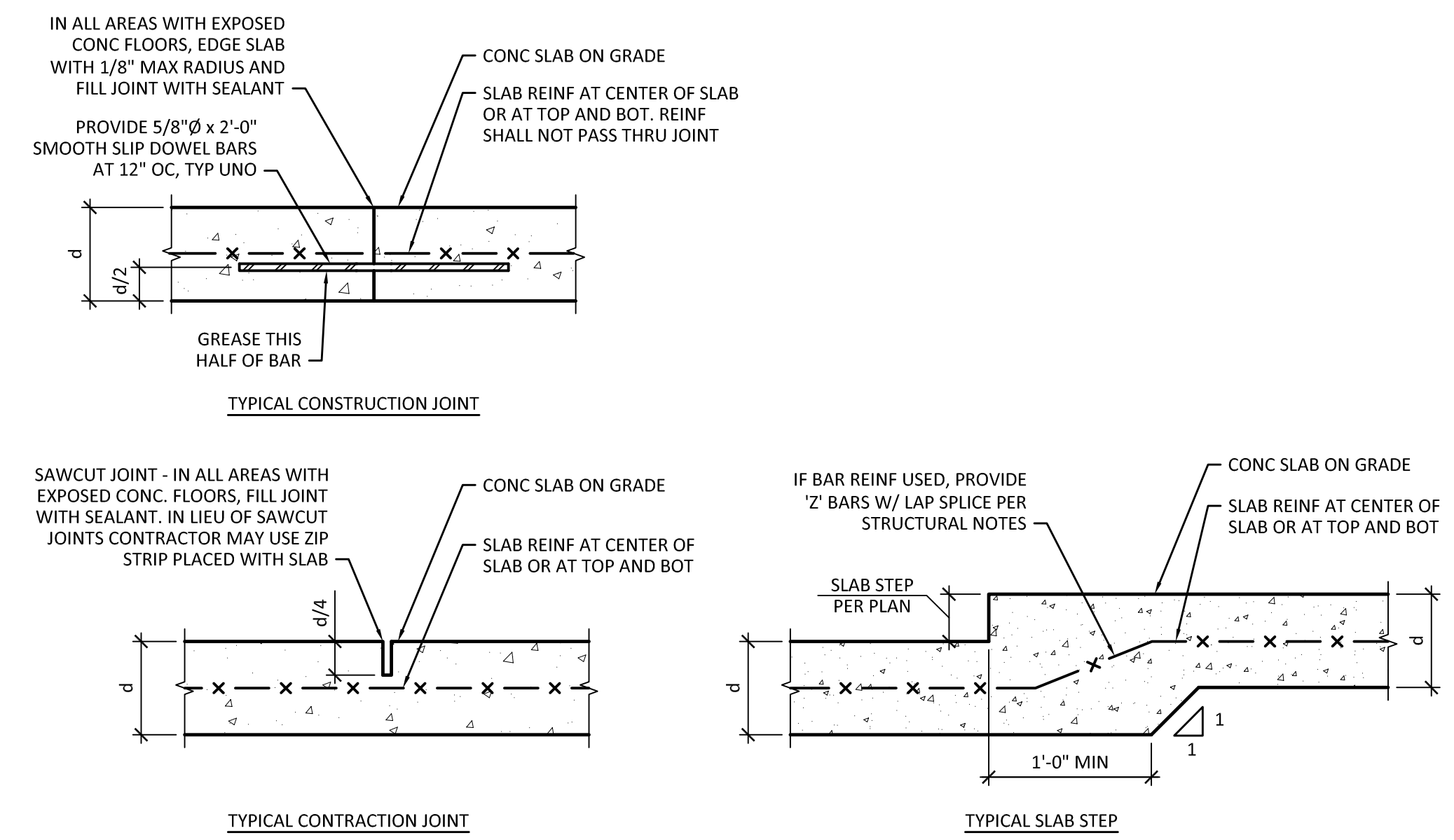
8 TYPICAL CONCRETE BEAM SECTION
 SCALE: 1" = 1'-0"



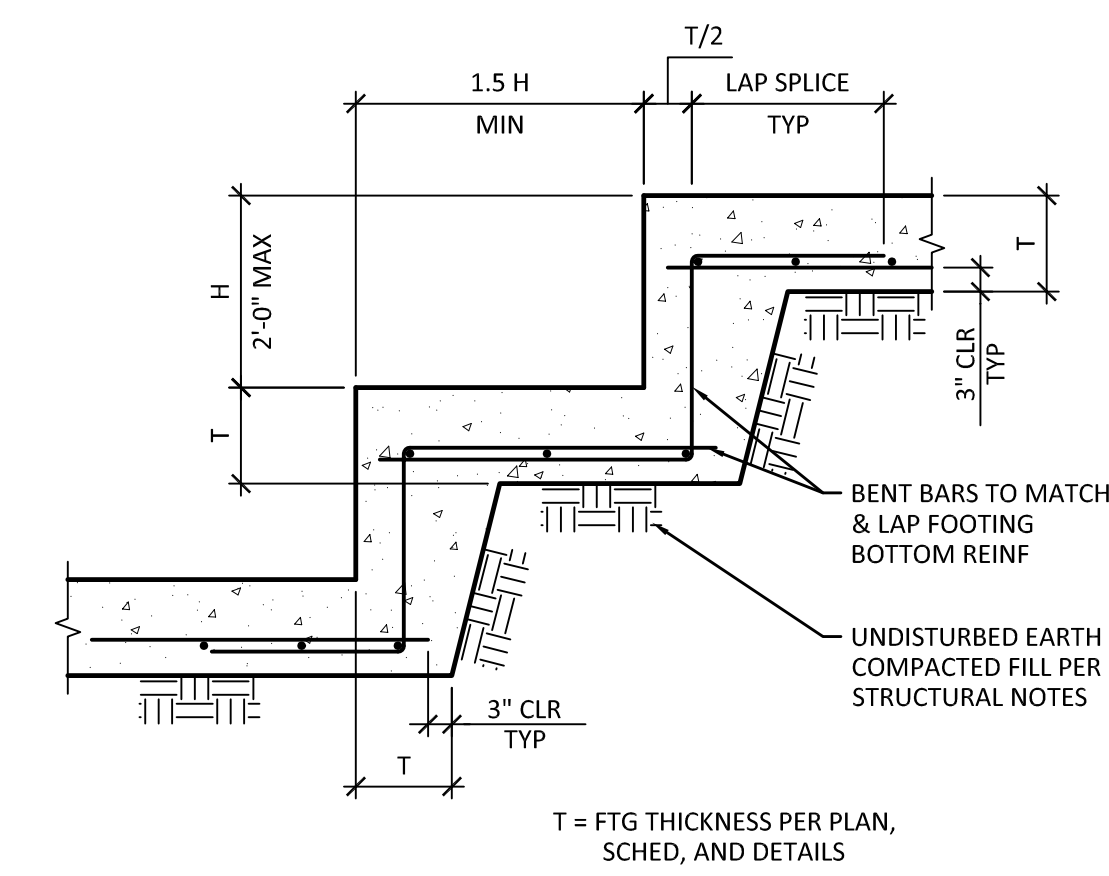
9 TYPICAL STEPPED GRADE BEAM SECTION
 SCALE: 1" = 1'-0"



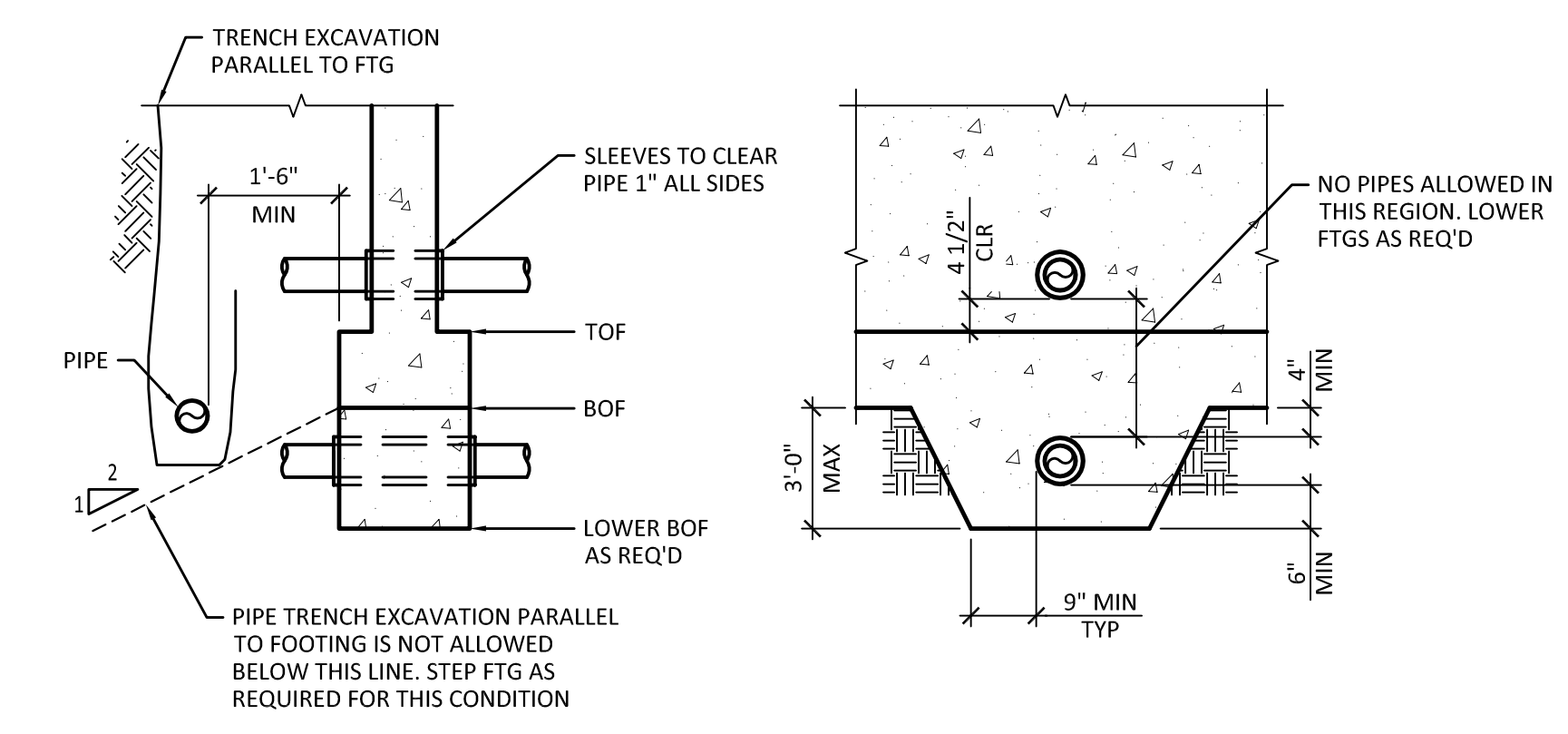
10 TYPICAL SLOPE GRADE BEAM SECTION
 SCALE: 1" = 1'-0"



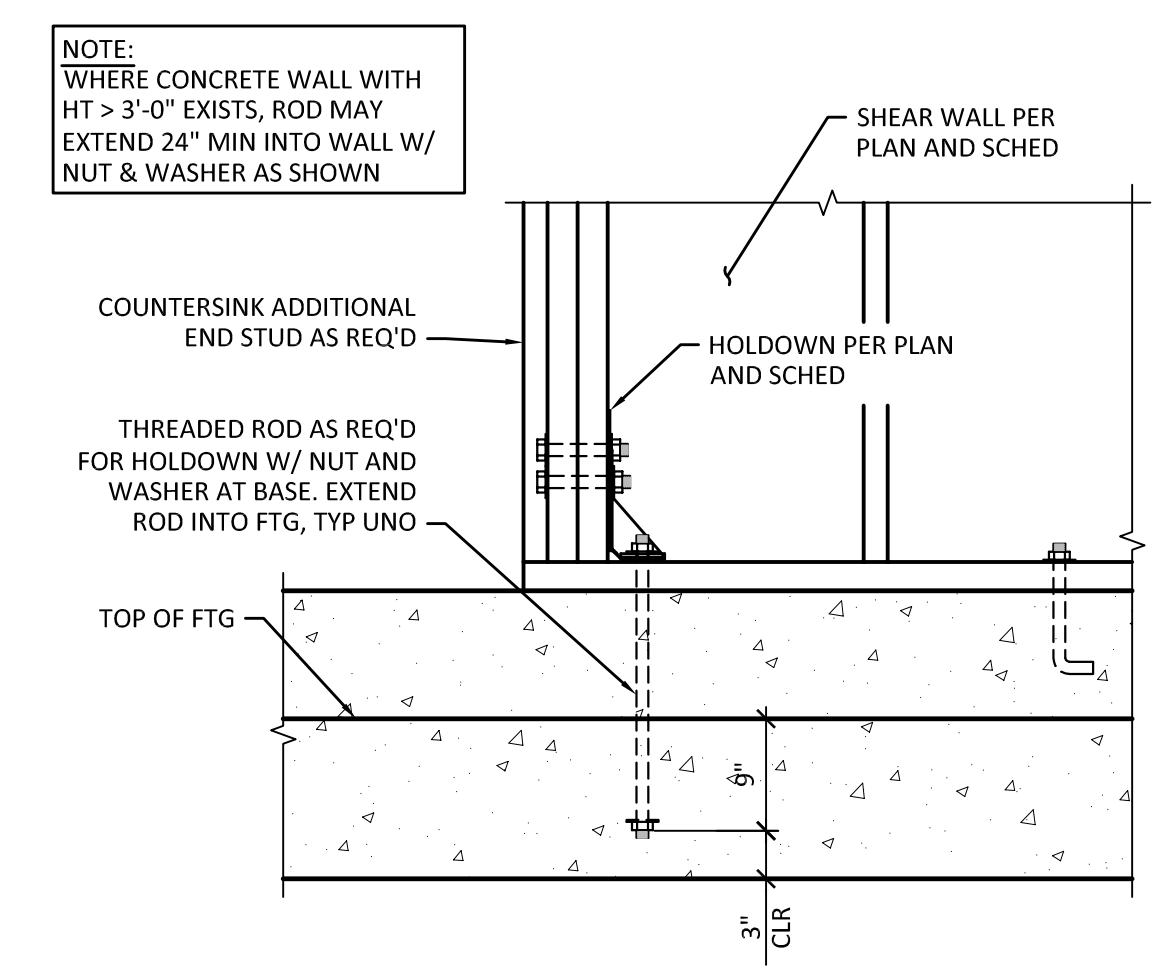
1 TYPICAL SLAB ON GRADE DETAILS
 SCALE: 1" = 1'-0"



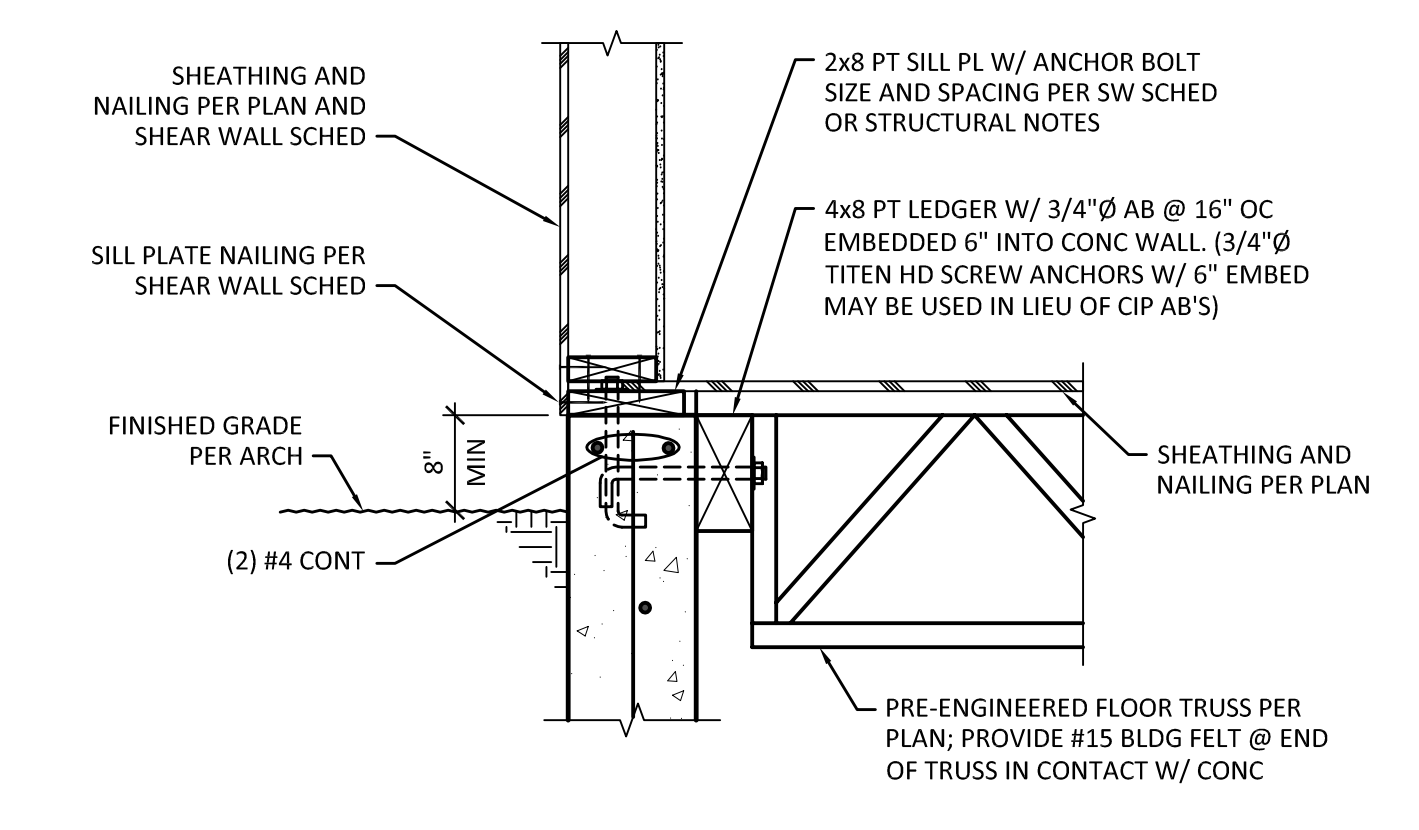
2 TYPICAL STEPPED WALL FOOTING
 SCALE: 1/2" = 1'-0"



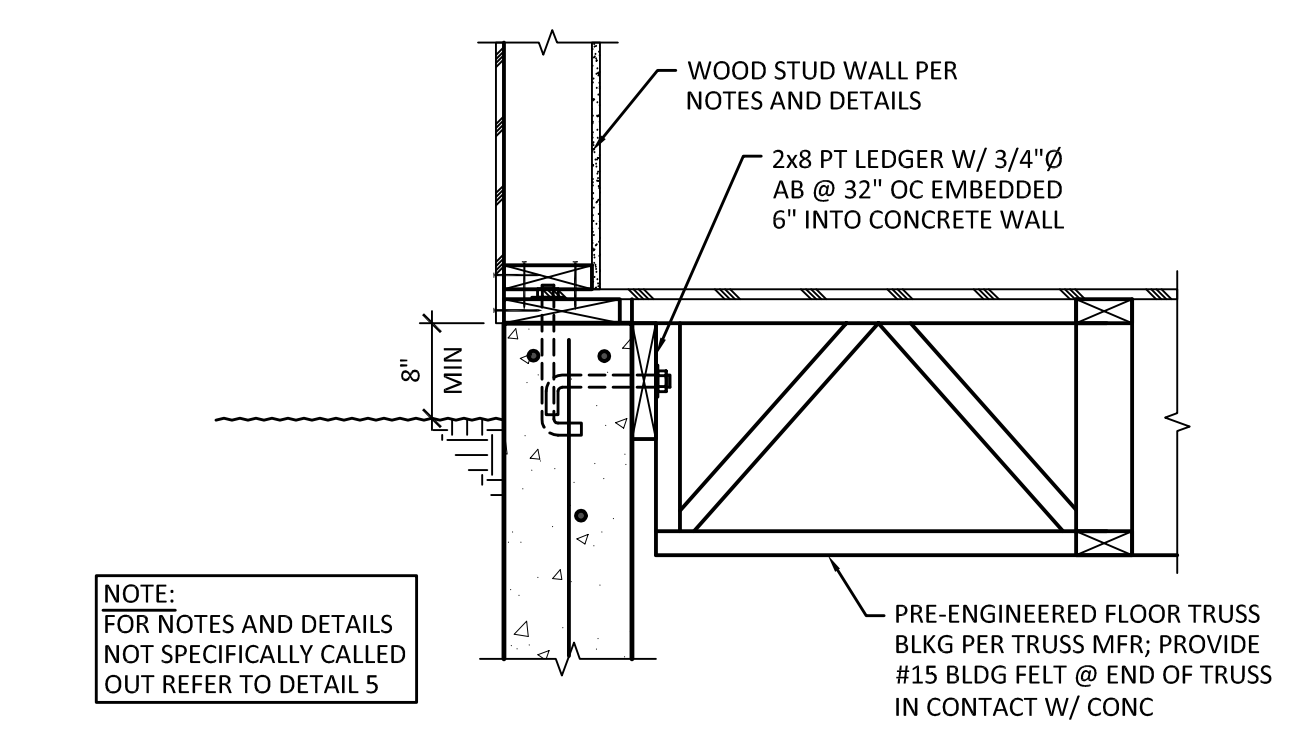
3 TYPICAL PIPE PENETRATION AT WALLS AND FOOTINGS
 SCALE: 1/2" = 1'-0"



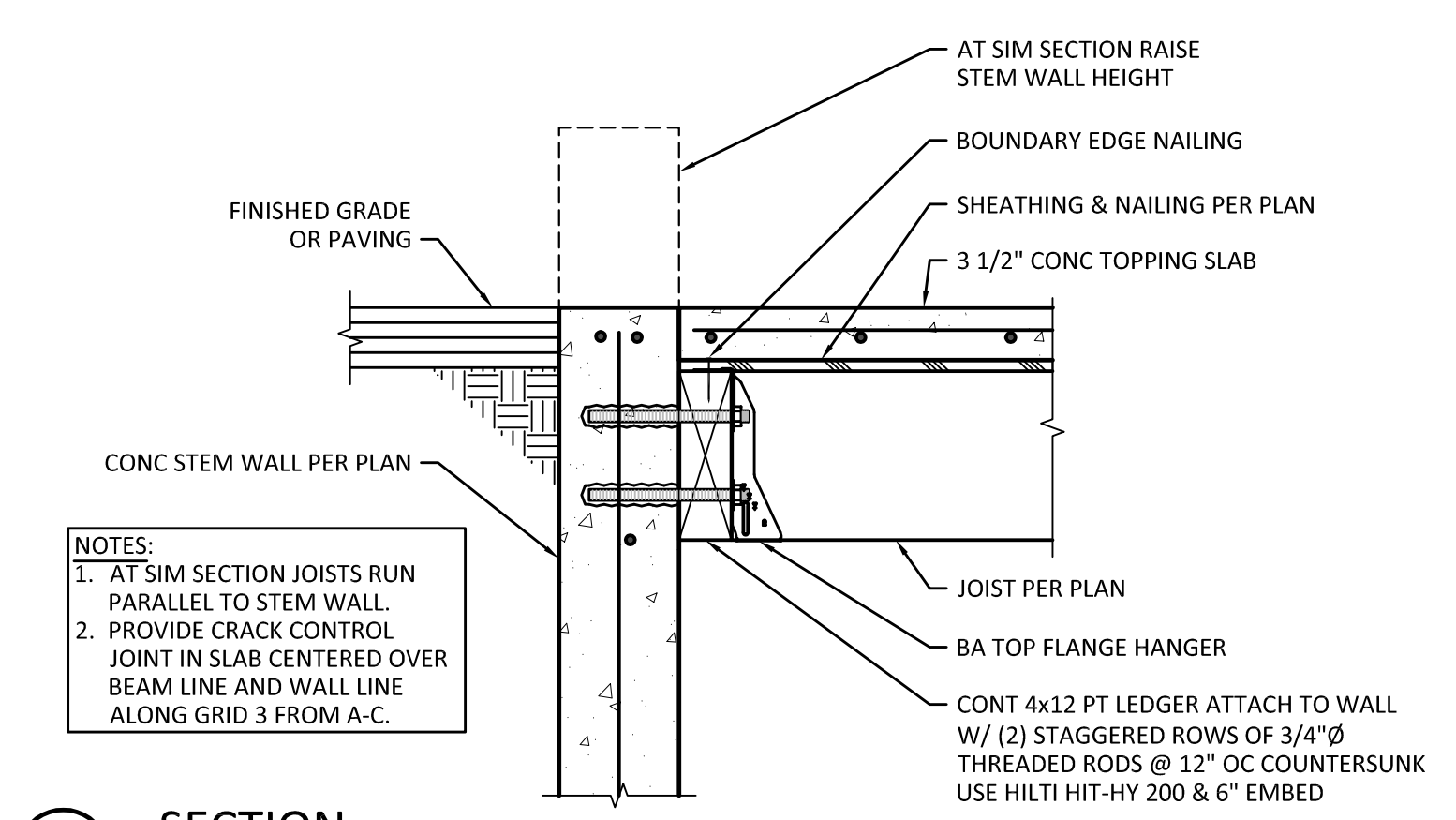
4 HOLDOWN DETAIL
 SCALE: 1" = 1'-0"



5 SECTION
 SCALE: 1" = 1'-0"



6 SECTION
 SCALE: 1" = 1'-0"



7 SECTION
 SCALE: 1/2" = 1'-0"

| MARK | DATE | DESCRIPTION |
|------|----------|------------------|
| | 05/11/18 | PERMIT SUBMITTAL |
| | 07/18/19 | COMMENT RESPONSE |

| | |
|---------|----------|
| DESIGN: | JGG |
| DRAWN: | ZOS |
| CHECK: | GAG |
| JOB NO: | 15227.10 |
| DATE: | 05/11/18 |

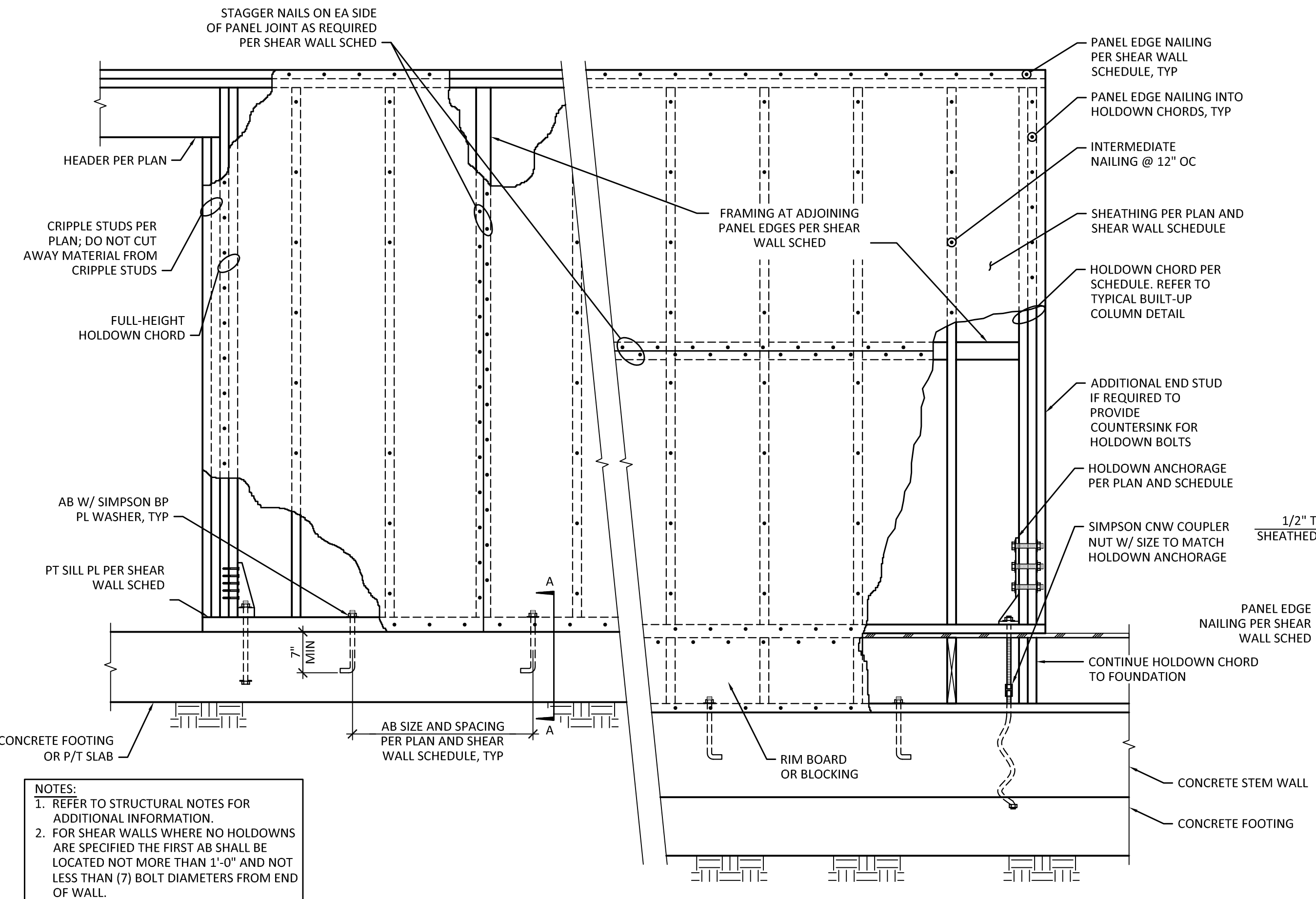
RUDOLF RESIDENCE
 8253 W MERCER WAY
 MERCER ISLAND, WA 98040
 FOUNDATION DETAILS

SHEET:
S4.2

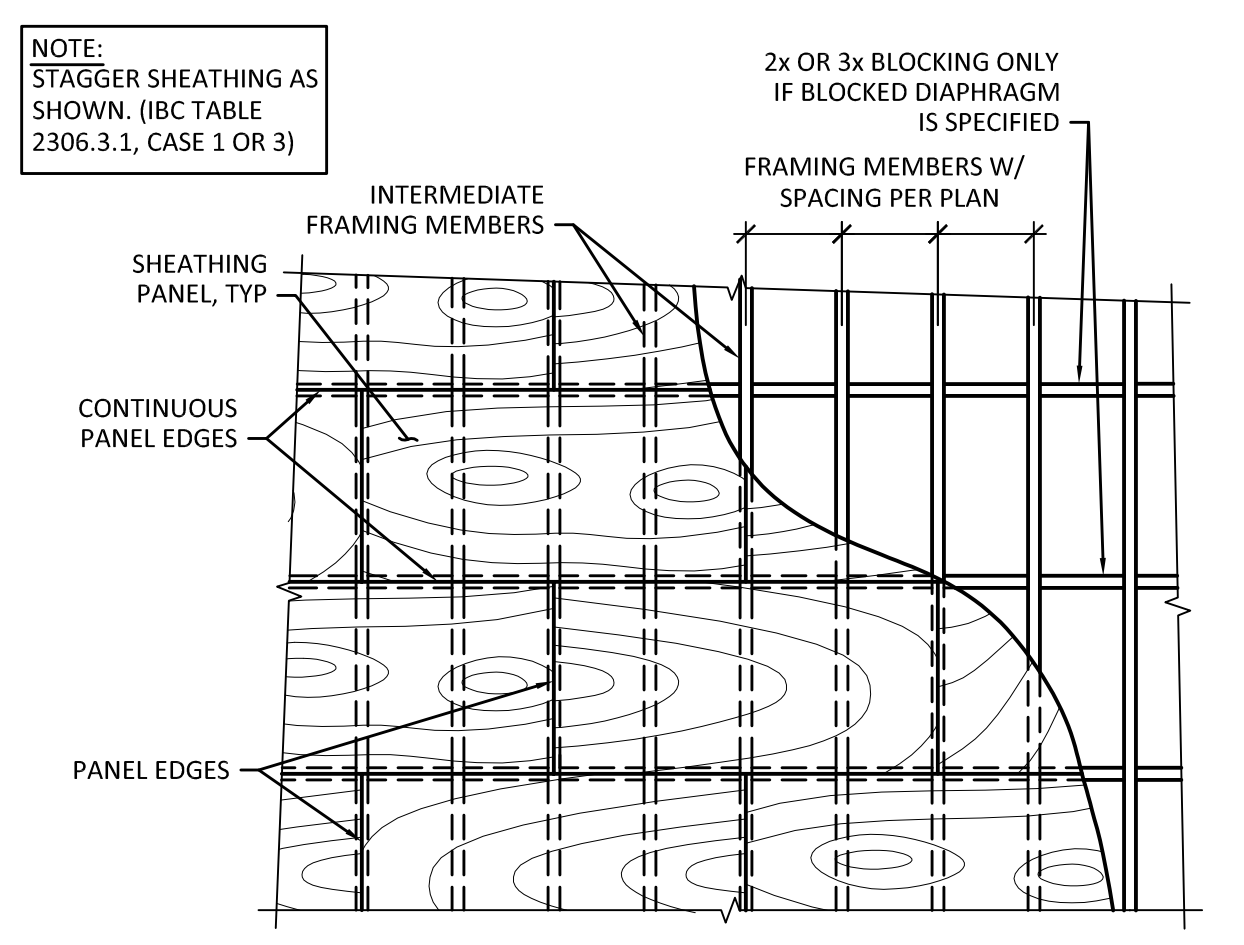


| MARK | DATE | DESCRIPTION |
|------|----------|------------------|
| | 05/11/18 | PERMIT SUBMITTAL |
| | 07/18/19 | COMMENT RESPONSE |

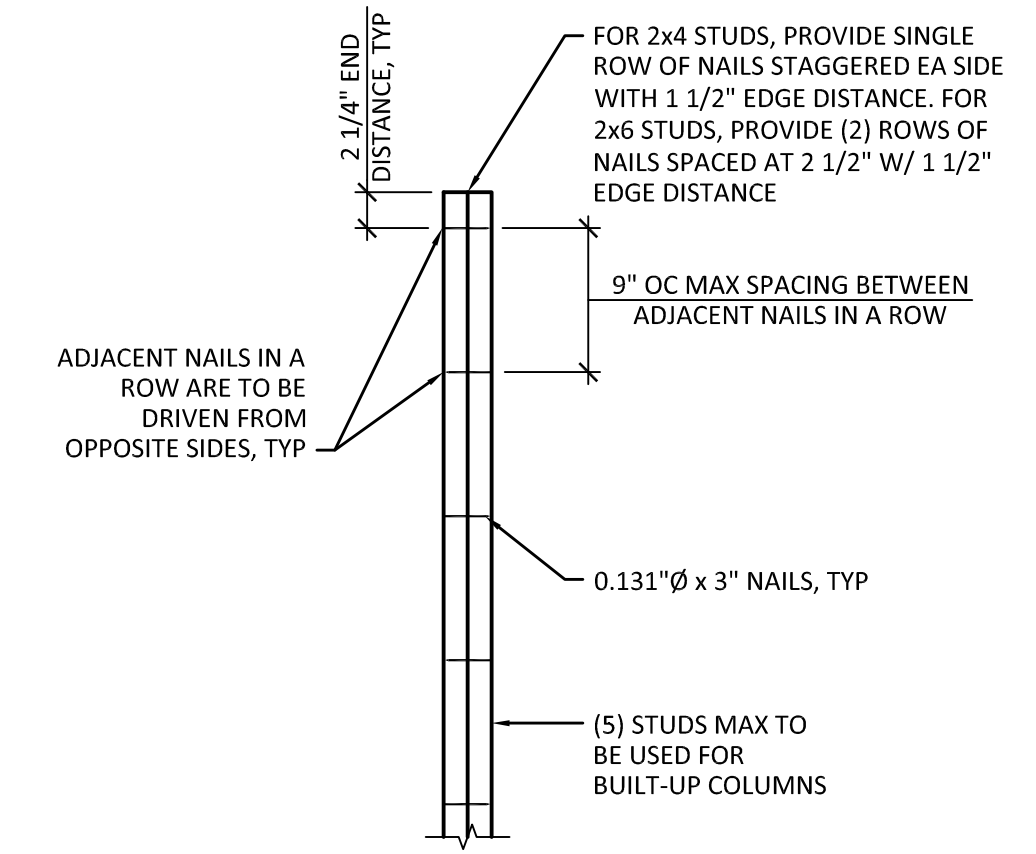
DESIGN: JGG
 DRAWN: ZOS
 CHECK: GAG
 JOB NO: 15227.10
 DATE: 05/11/18



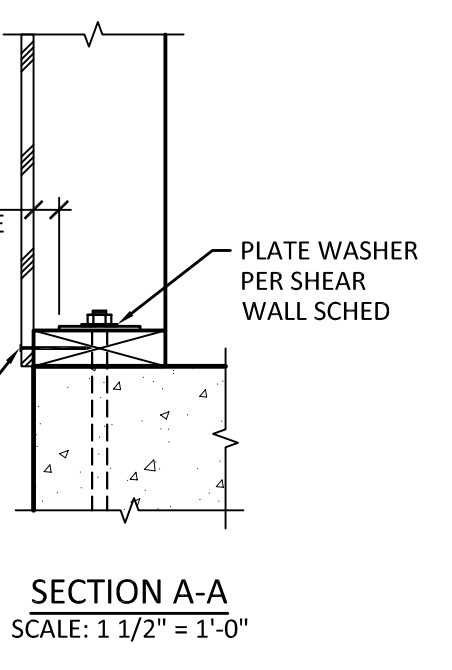
1 TYPICAL SHEAR WALL DETAIL
 SCALE: 3/4" = 1'-0"



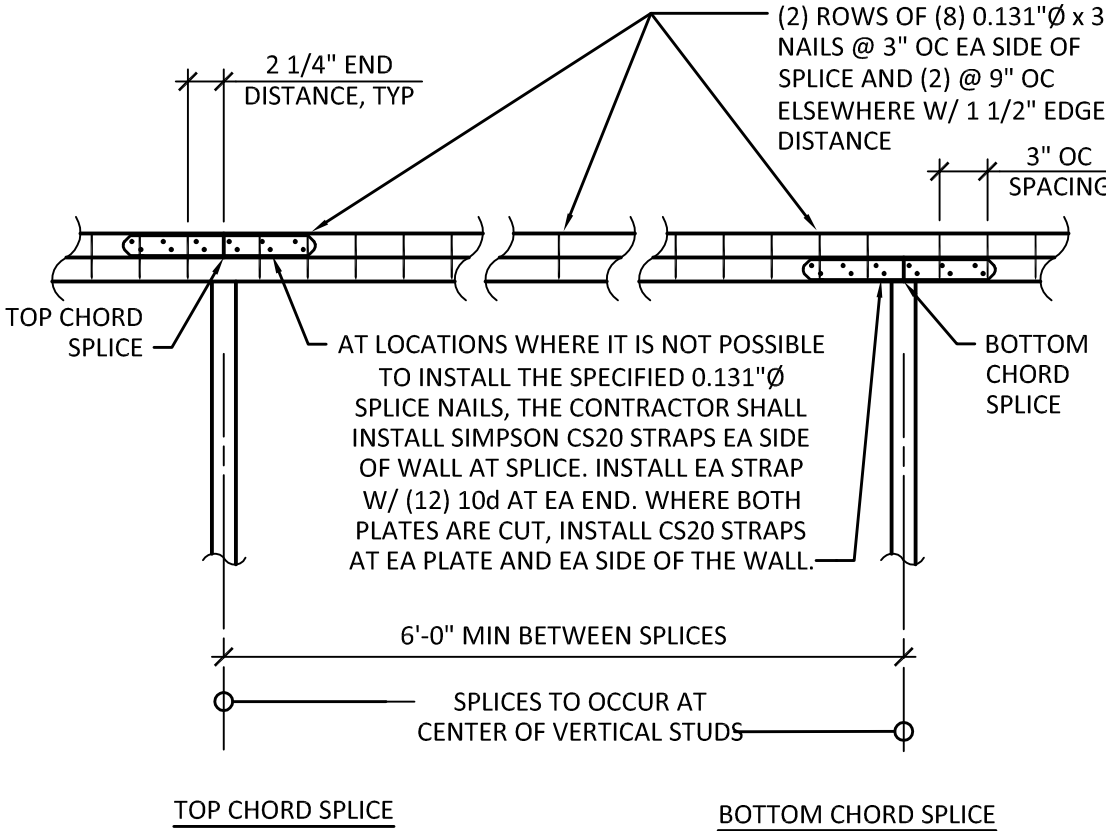
2 TYPICAL FLOOR/ ROOF SHEATHING DETAIL
 SCALE: NTS



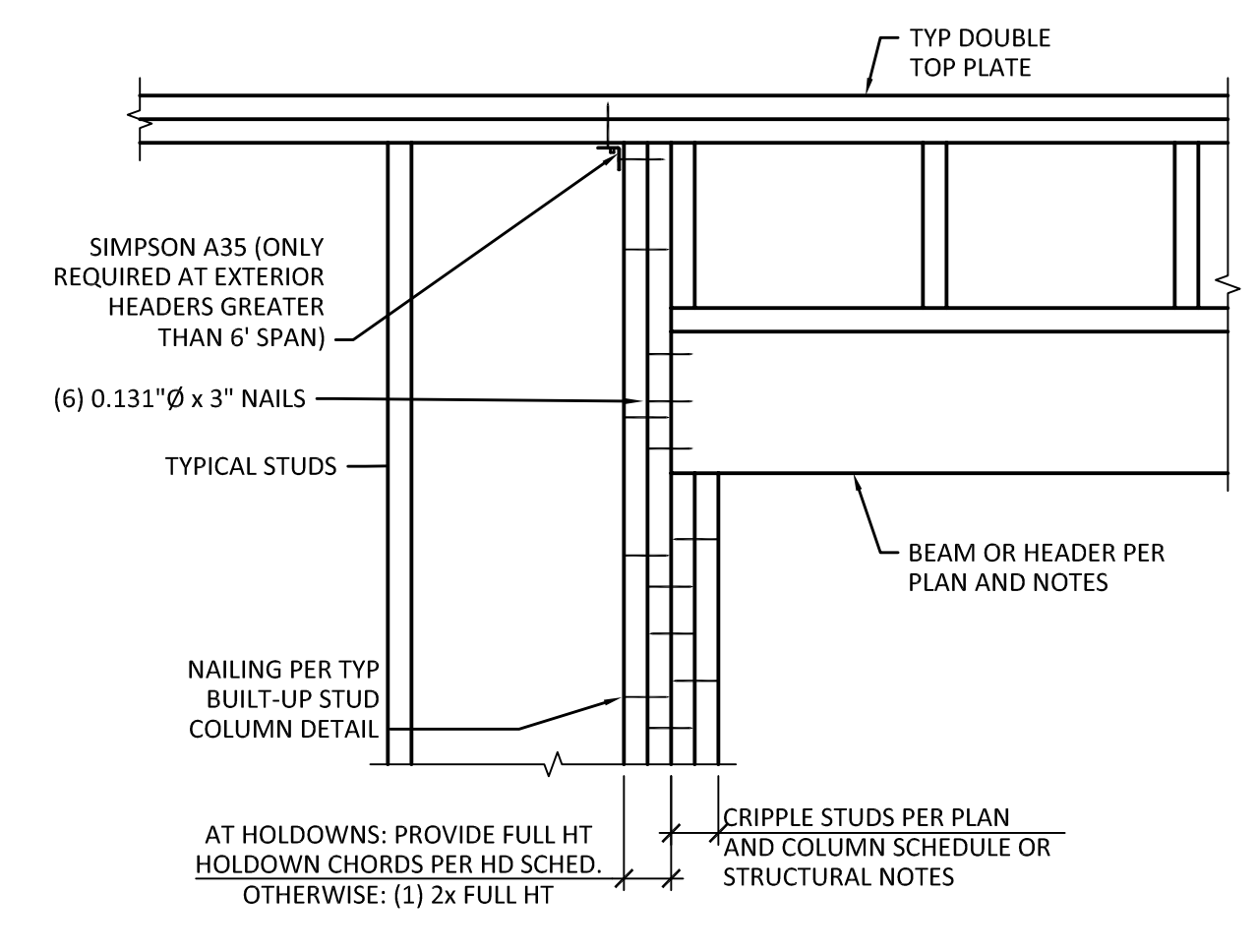
3 TYPICAL BUILT-UP STUD COLUMN DETAIL
 SCALE: 1" = 1'-0"



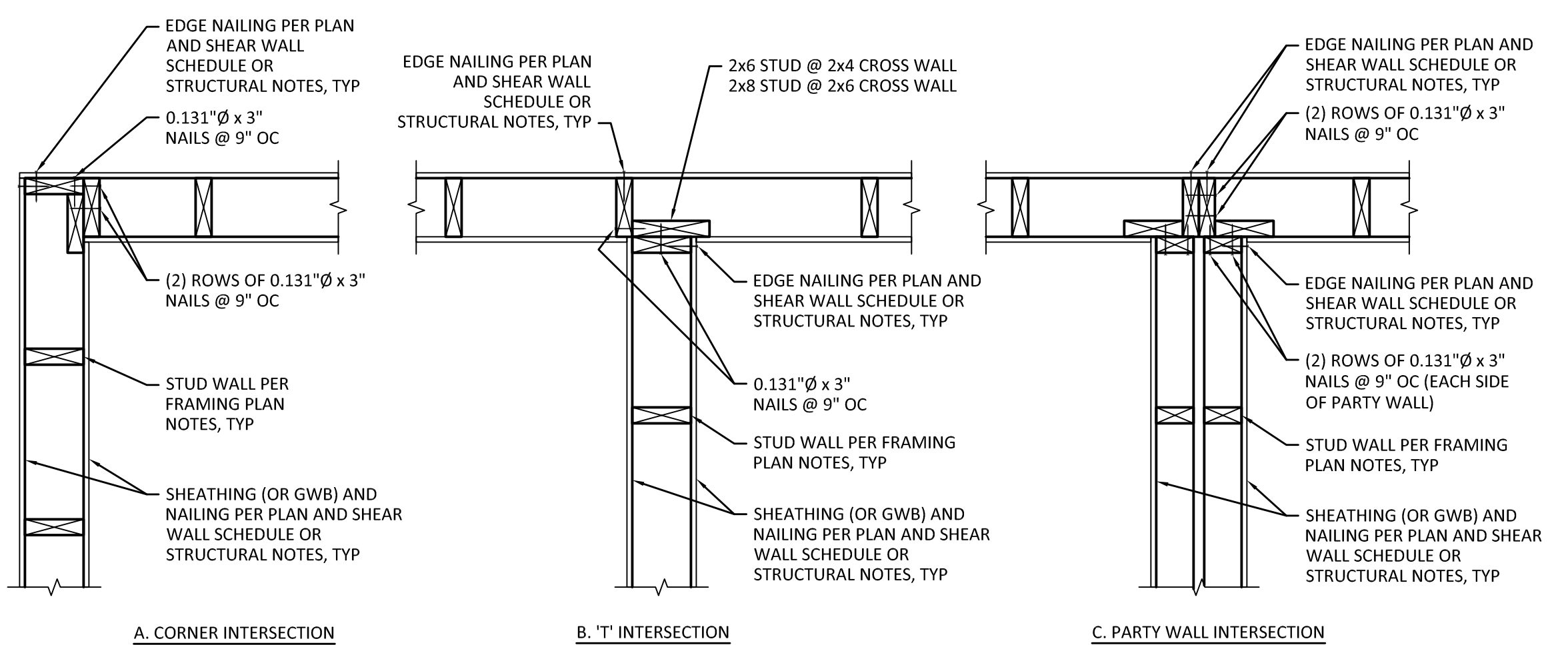
SECTION A-A
 SCALE: 1 1/2" = 1'-0"



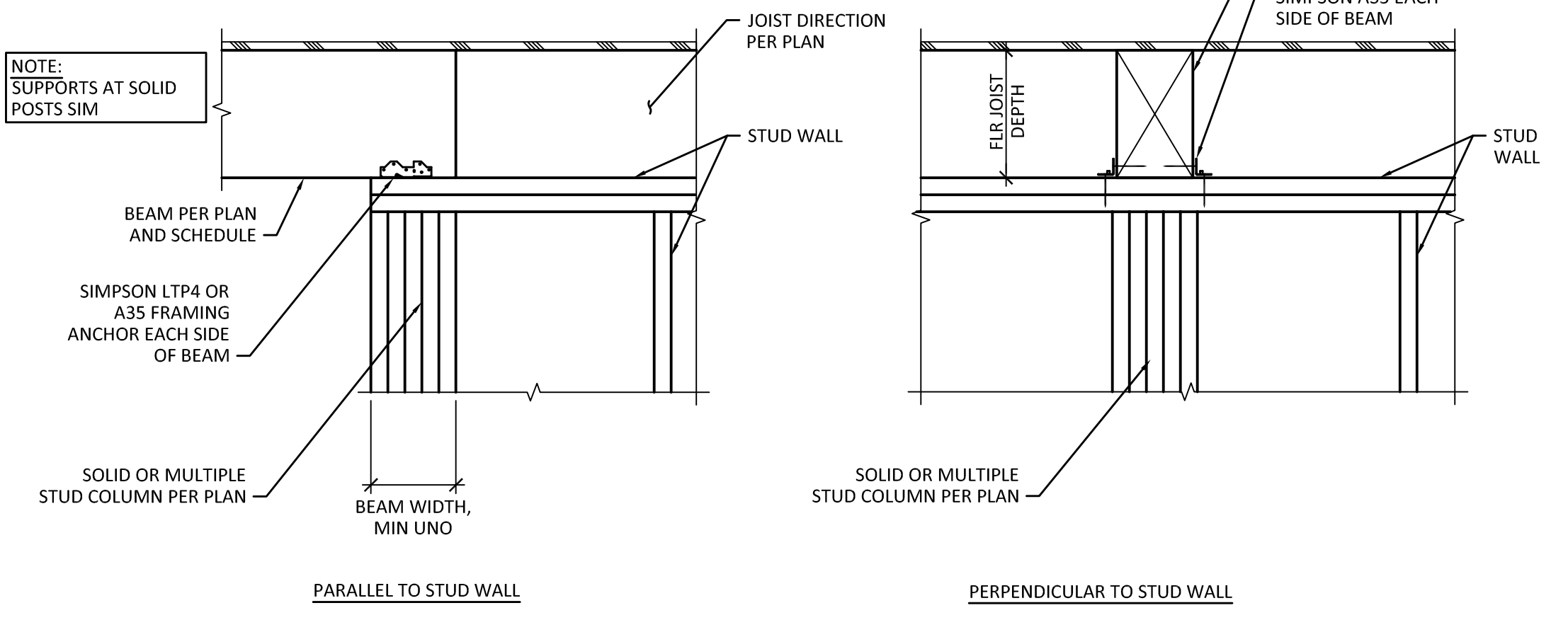
4 TYPICAL TOP PLATE SPLICE DETAIL
 SCALE: 1" = 1'-0"



5 TYPICAL HEADER DETAIL
 SCALE: 1" = 1'-0"



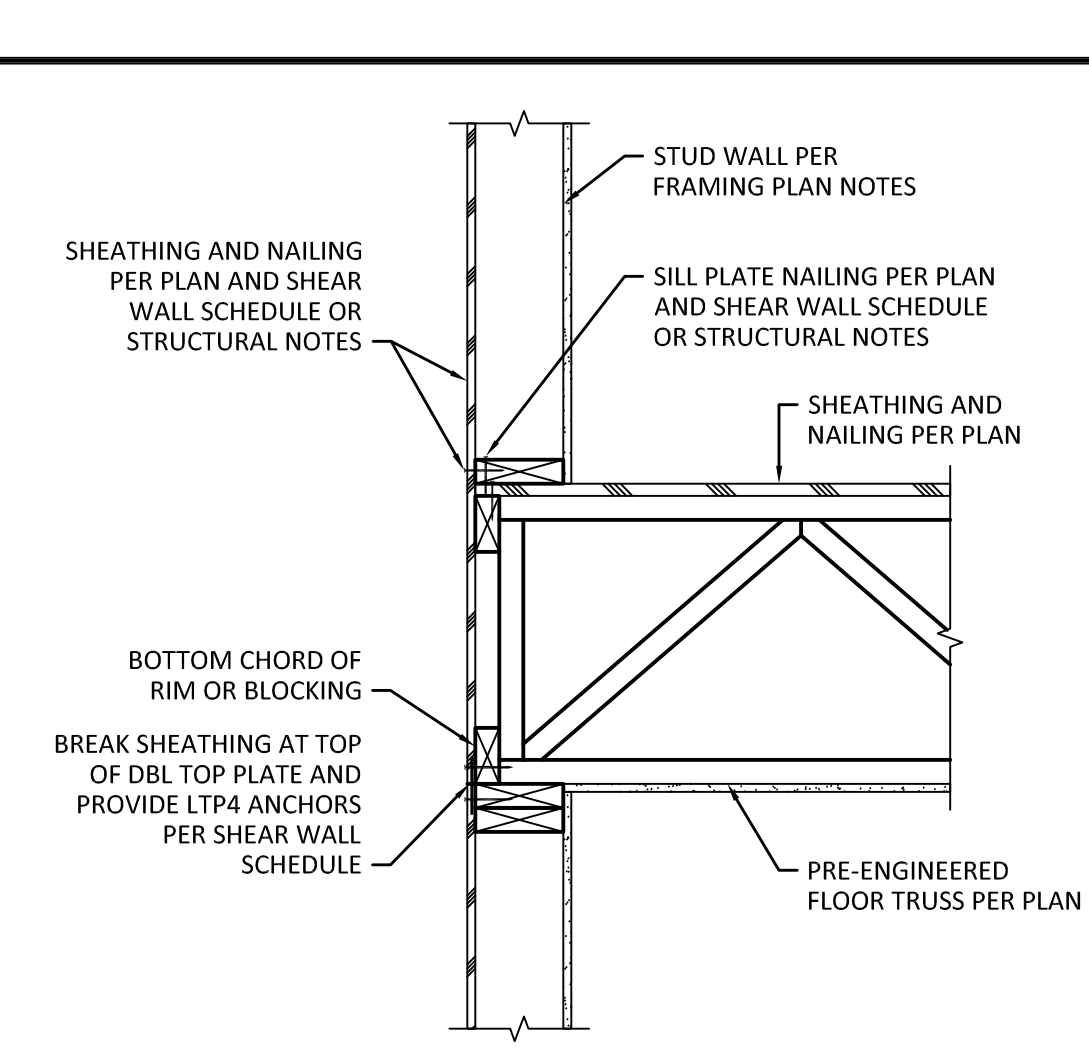
6 TYPICAL WALL INTERSECTION DETAIL
 SCALE: 1" = 1'-0"



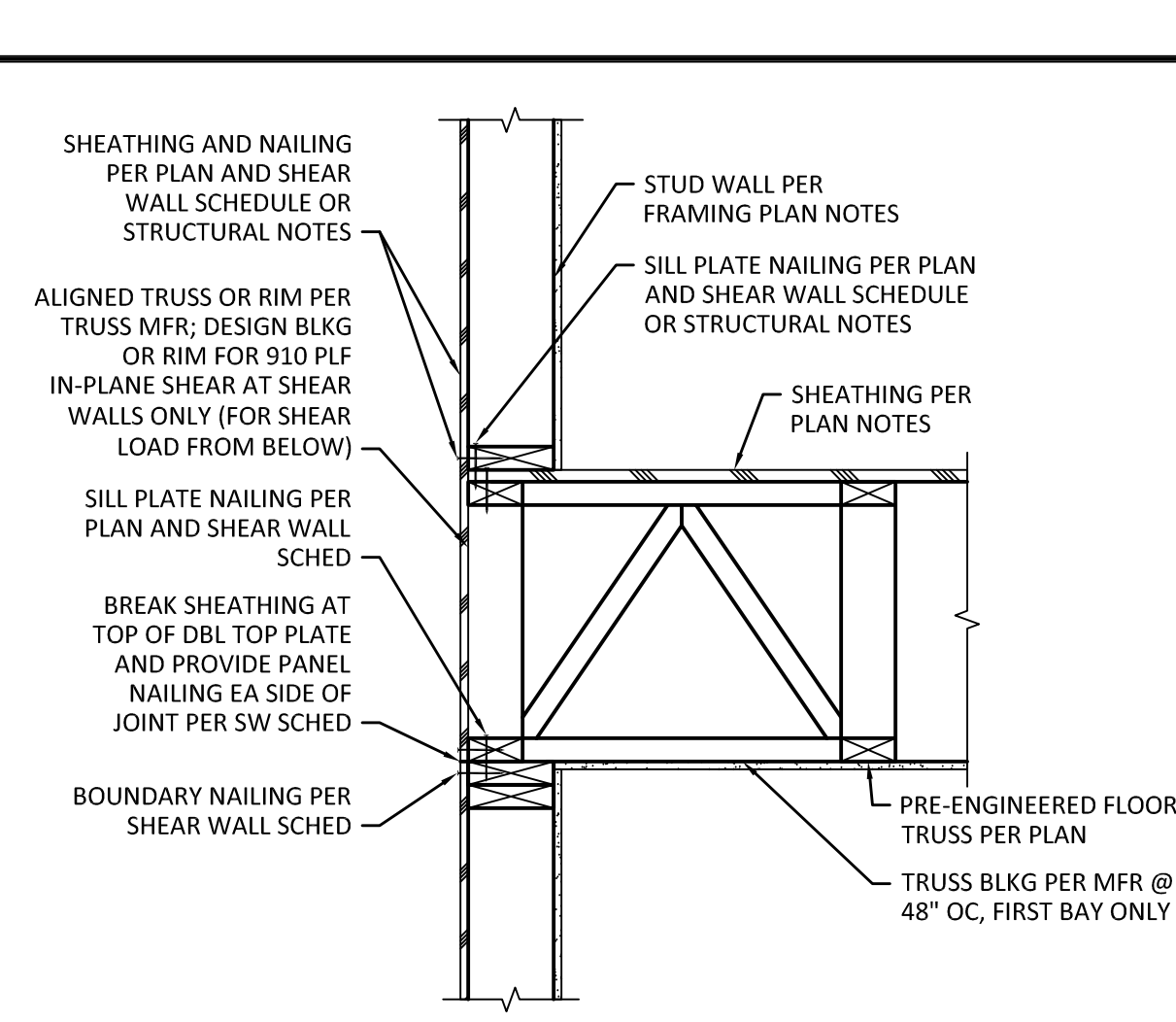
7 TYPICAL FLUSH BEAM SUPPORT DETAILS
 SCALE: 1" = 1'-0"

RUDOLF RESIDENCE
 8253 W MERCER WAY
 MERCER ISLAND, WA 98040

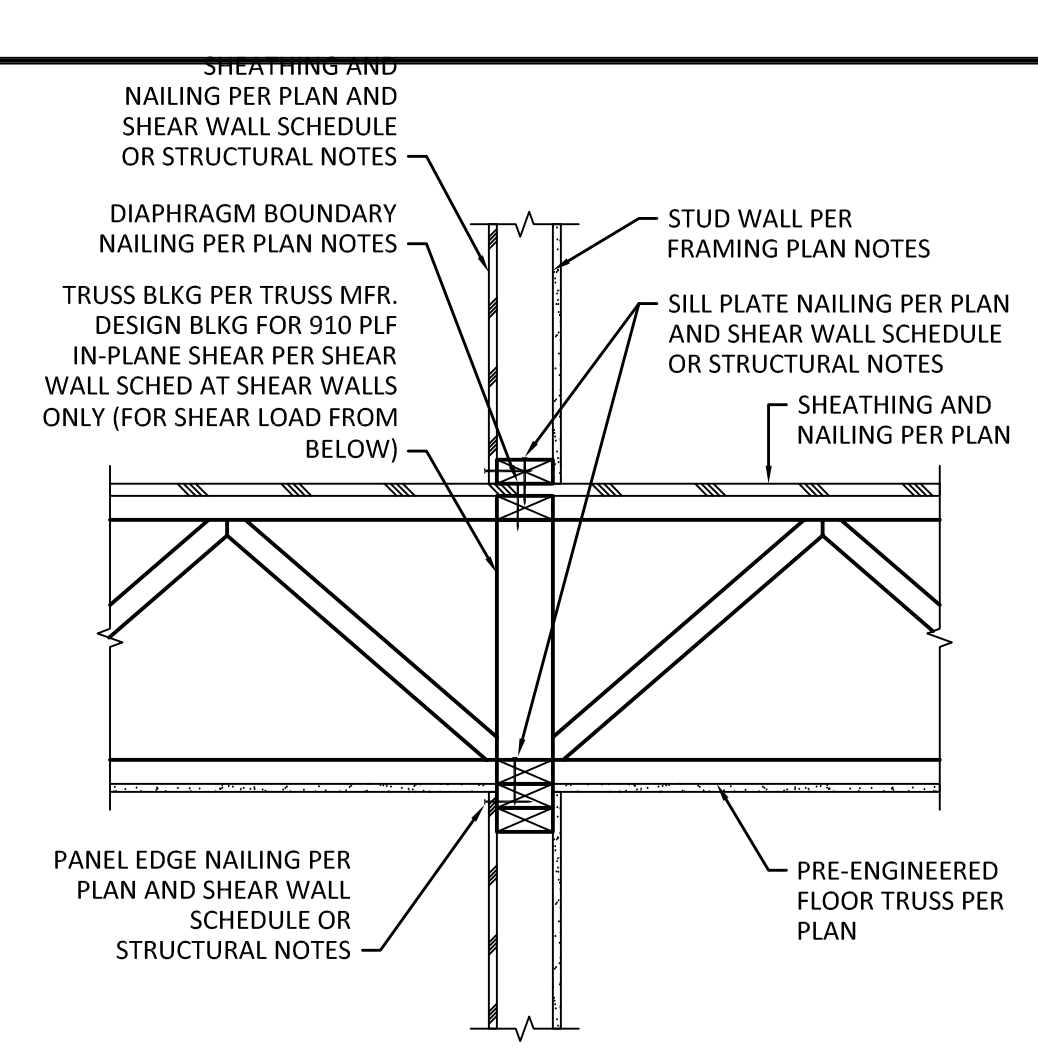
WOOD FRAMING DETAILS



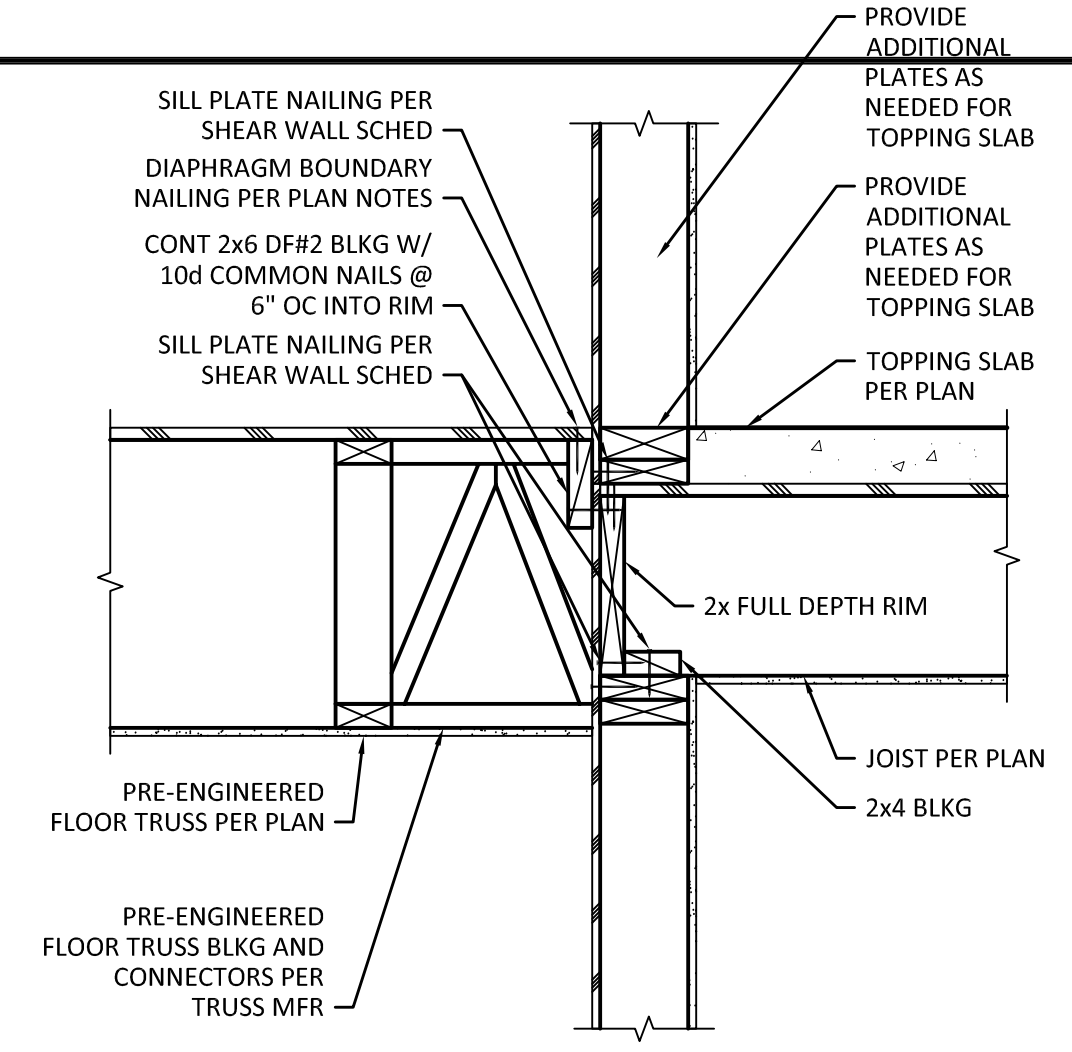
1 EXTERIOR WALL FRAMING DETAIL
SCALE: 1" = 1'-0"



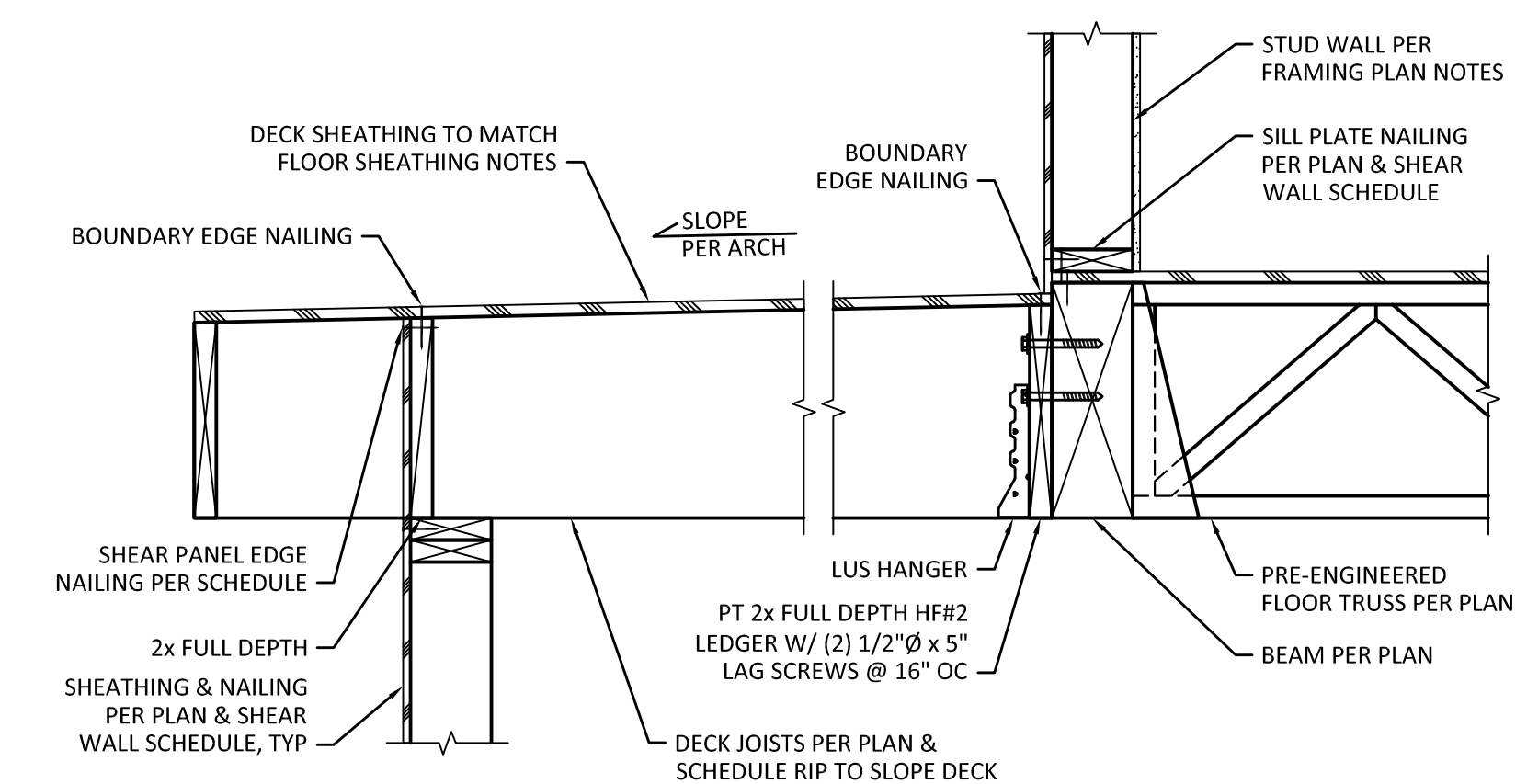
2 EXTERIOR WALL FRAMING DETAIL
SCALE: 1" = 1'-0"



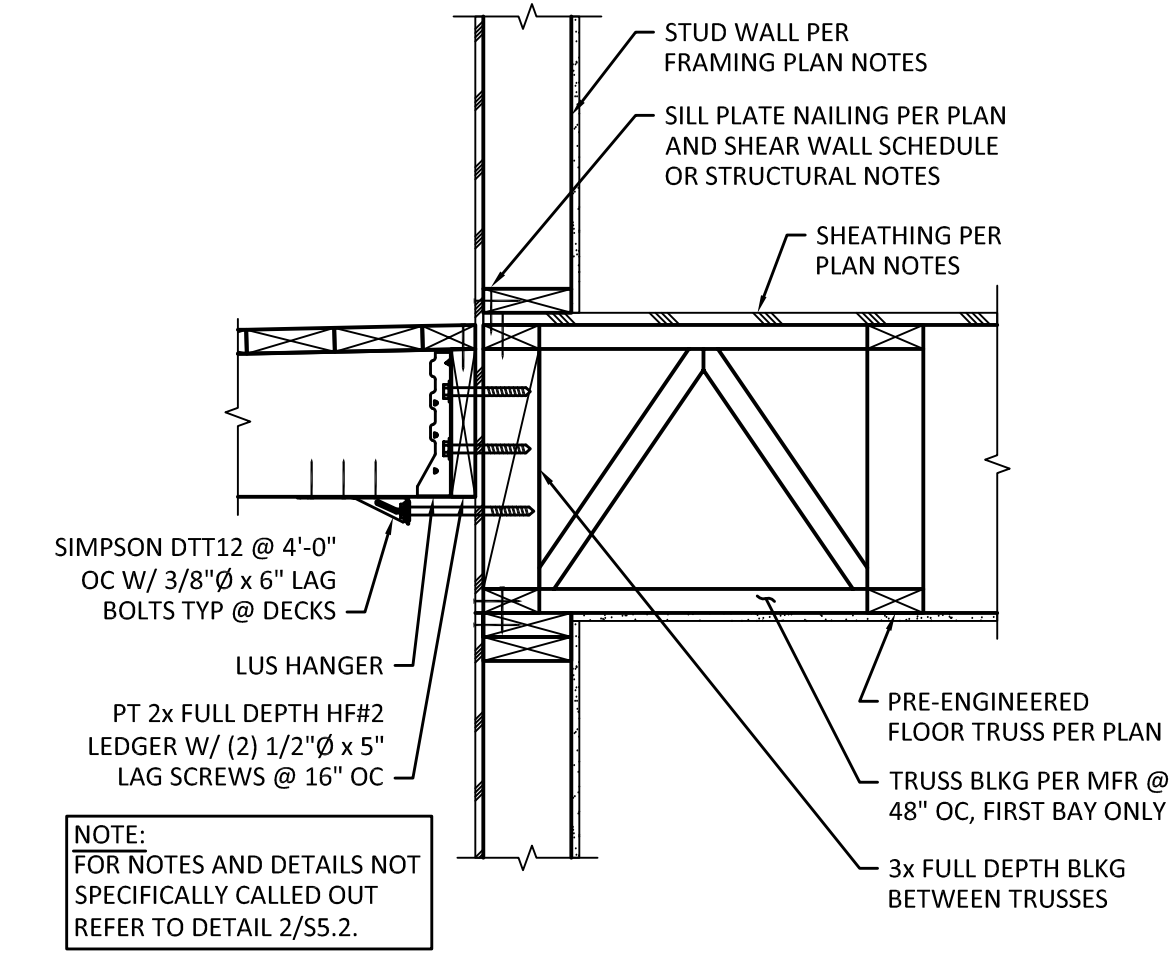
3 INTERIOR BEARING ON BOTH SIDES
SCALE: 1" = 1'-0"



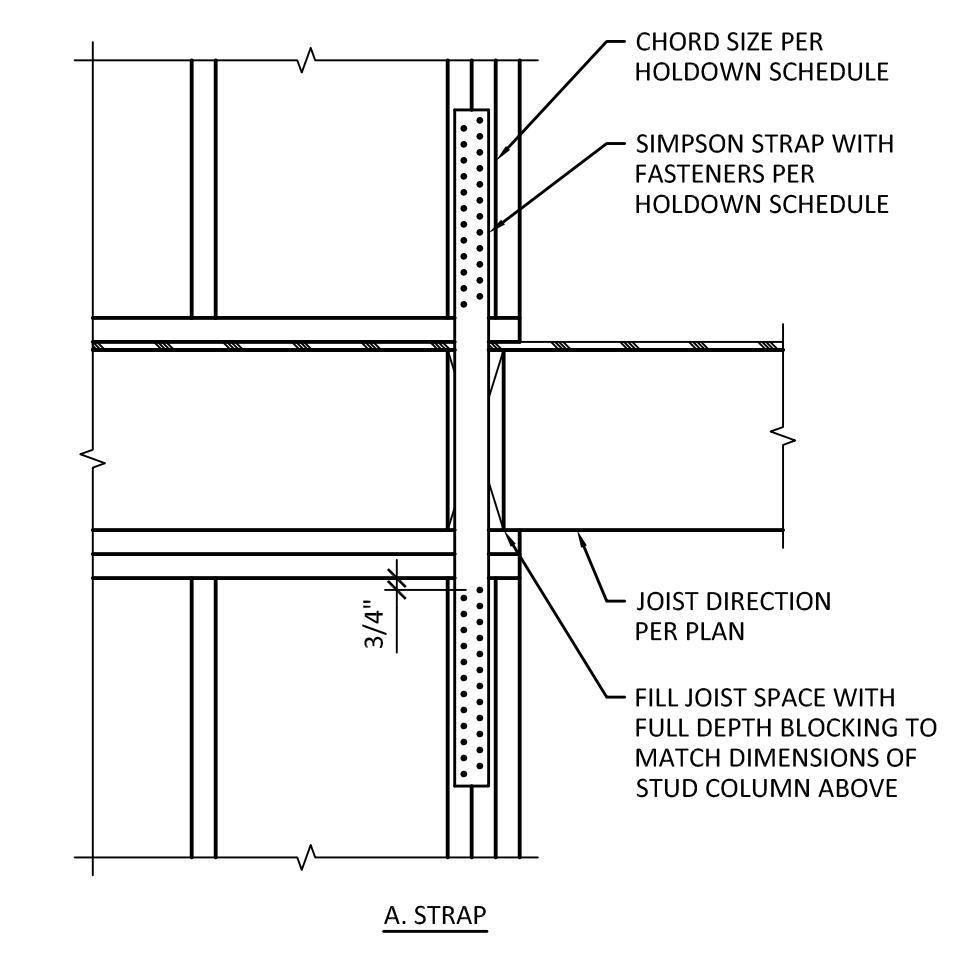
4 SECTION
SCALE: 1" = 1'-0"



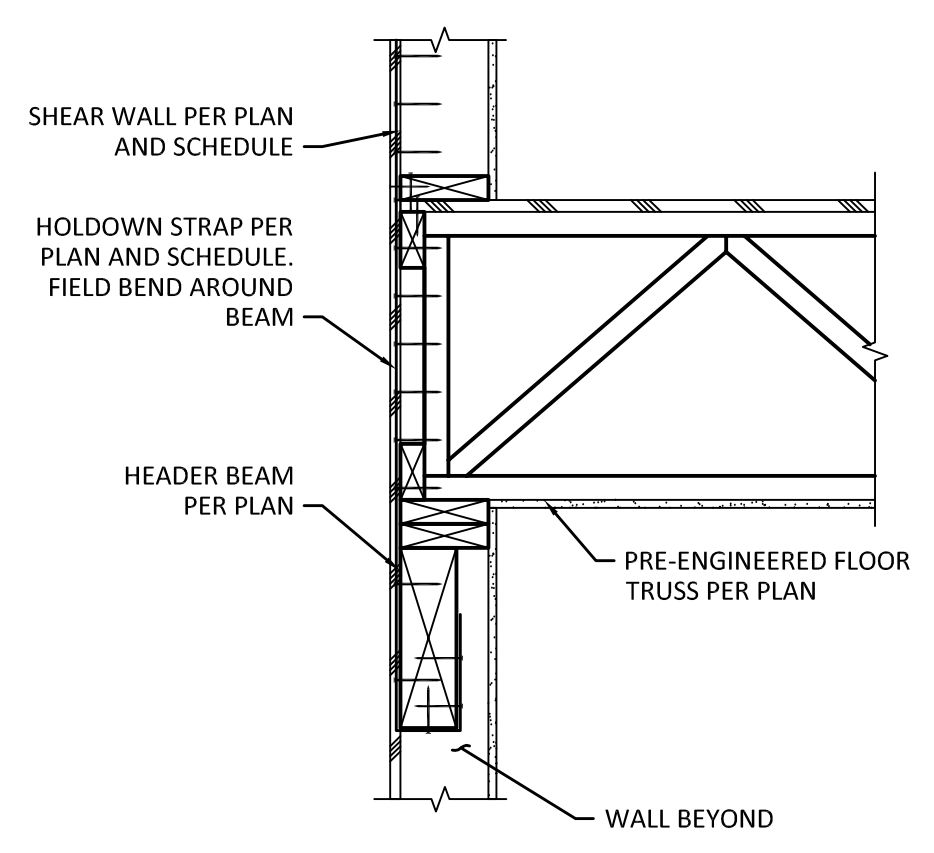
5 SECTION
SCALE: 1" = 1'-0"



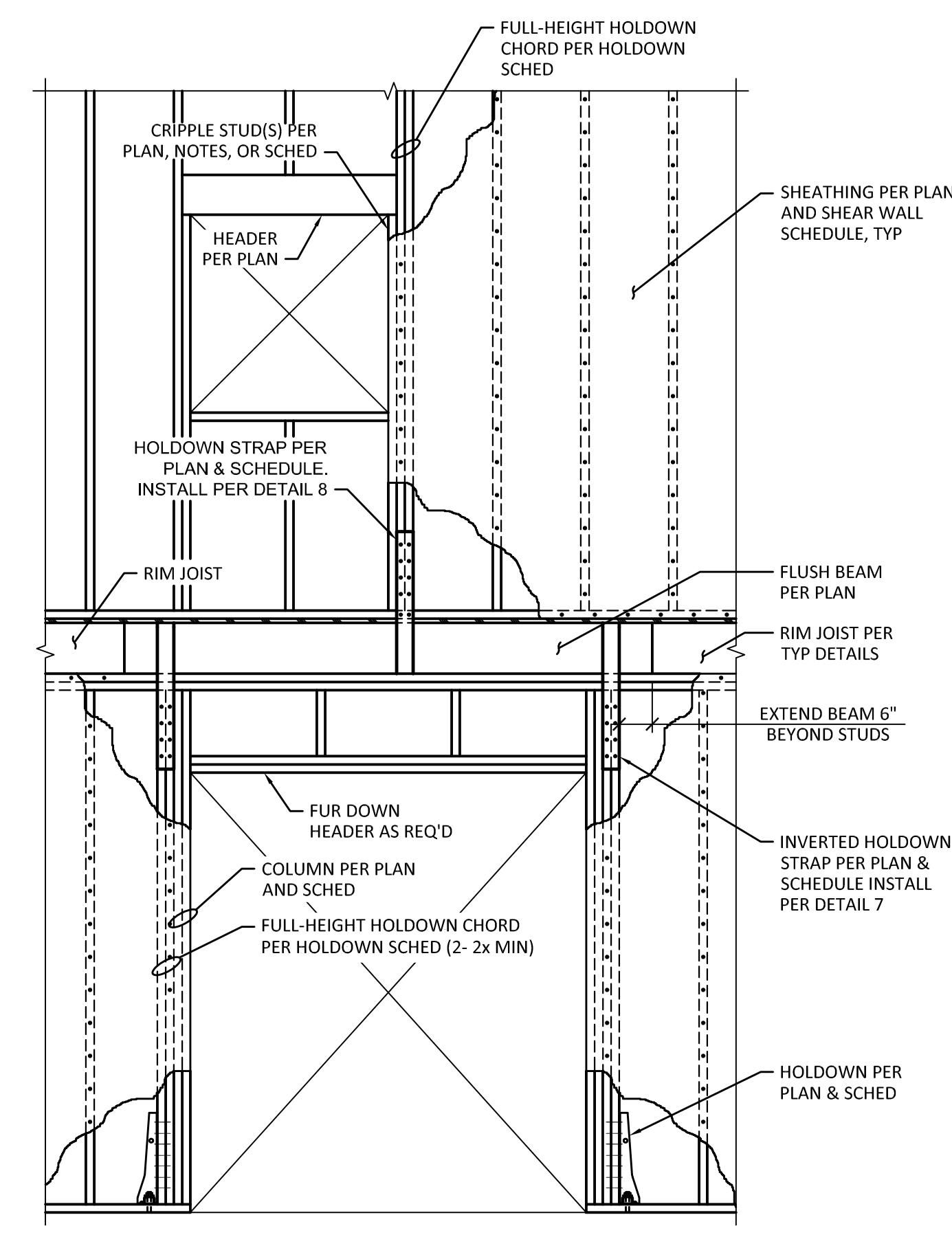
6 DECK CONNECTION
SCALE: 1" = 1'-0"



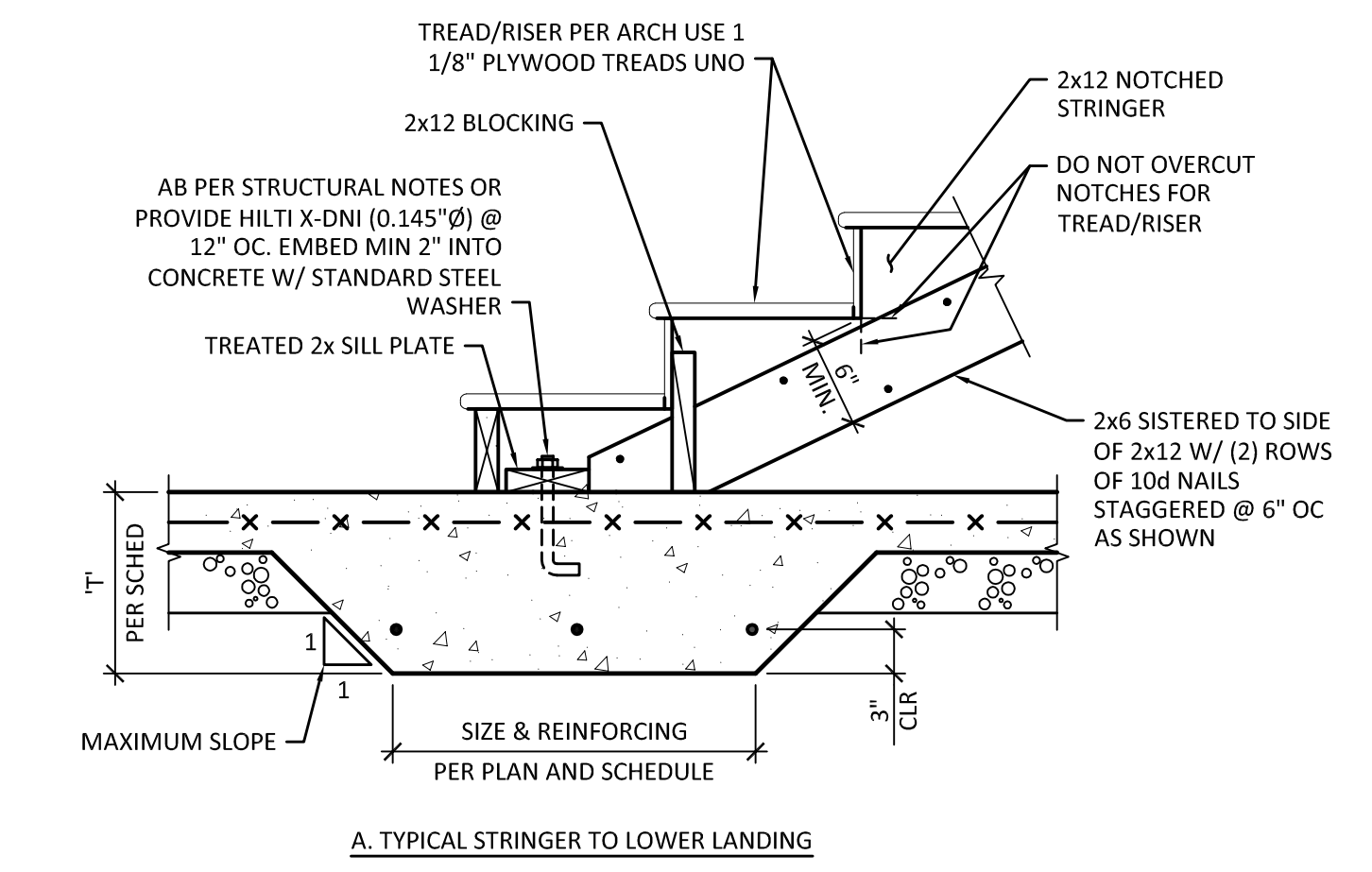
7 TYPICAL STRAP
SCALE: 1" = 1'-0"



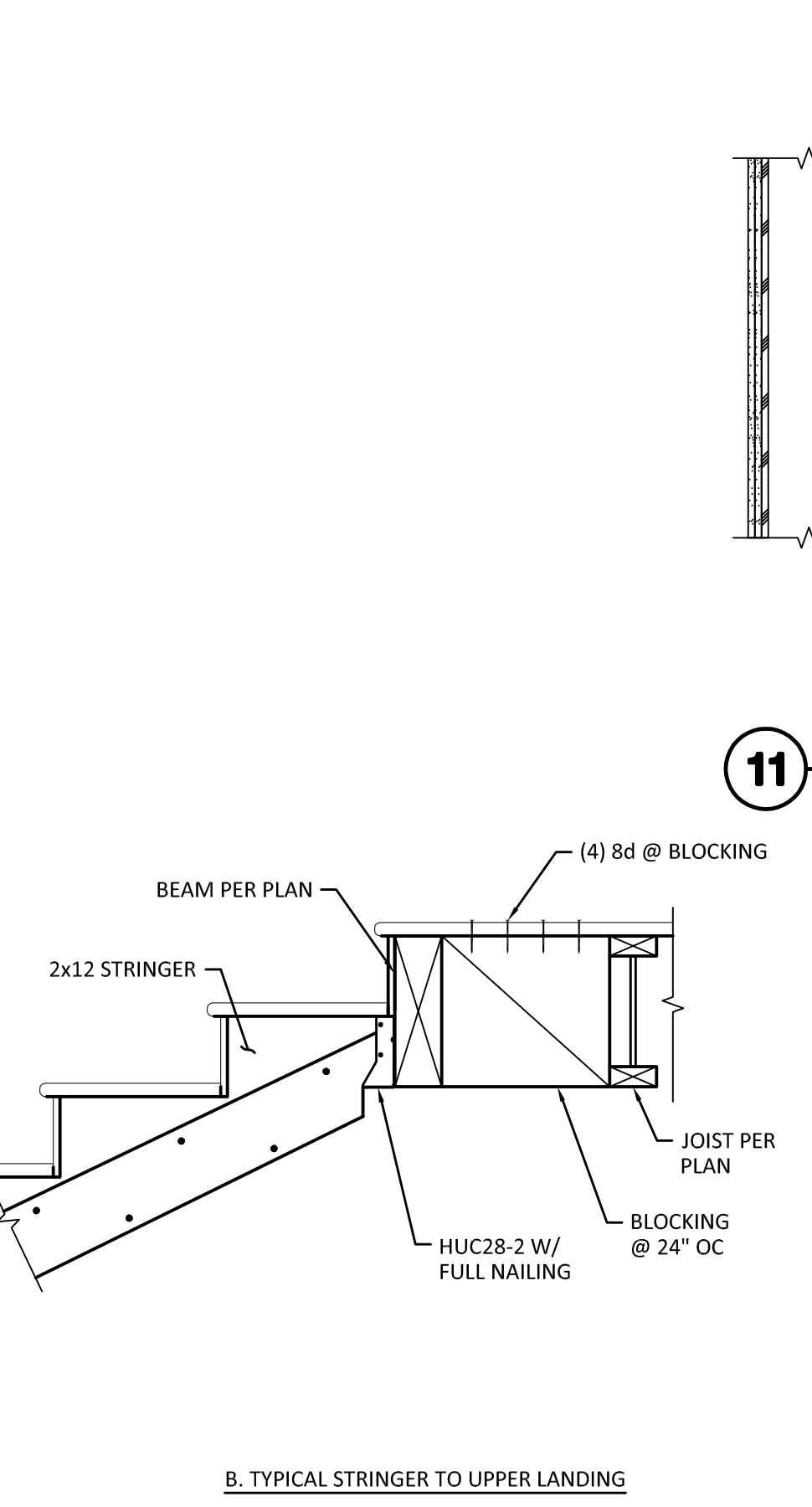
8 HOLDOWN TO BEAM
SCALE: 1" = 1'-0"



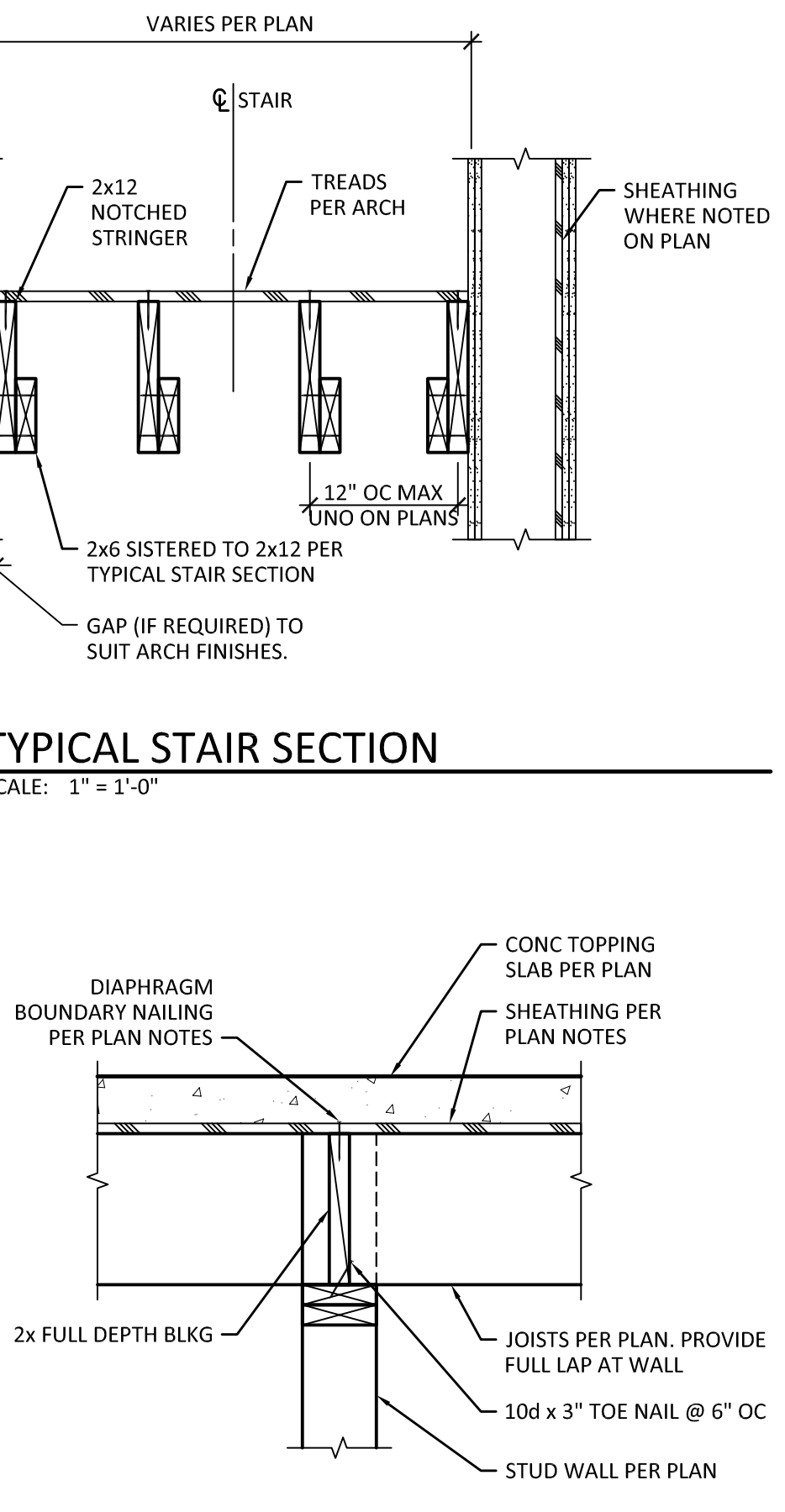
9 TYPICAL HOLDOWN OVER OPENING DETAIL
SCALE: 1/2" = 1'-0"



10 TYPICAL STAIR SECTIONS
SCALE: 1" = 1'-0"



11 TYPICAL STAIR SECTION
SCALE: 1" = 1'-0"



12 SECTION
SCALE: 1" = 1'-0"



| MARK | DATE | DESCRIPTION |
|------|----------|------------------|
| | 05/11/18 | PERMIT SUBMITTAL |
| | 01/18/19 | COMMENT RESPONSE |

| | |
|---------|----------|
| DESIGN: | JGG |
| DRAWN: | ZOS |
| CHECK: | GAG |
| JOB NO: | 15227.10 |
| DATE: | 05/11/18 |



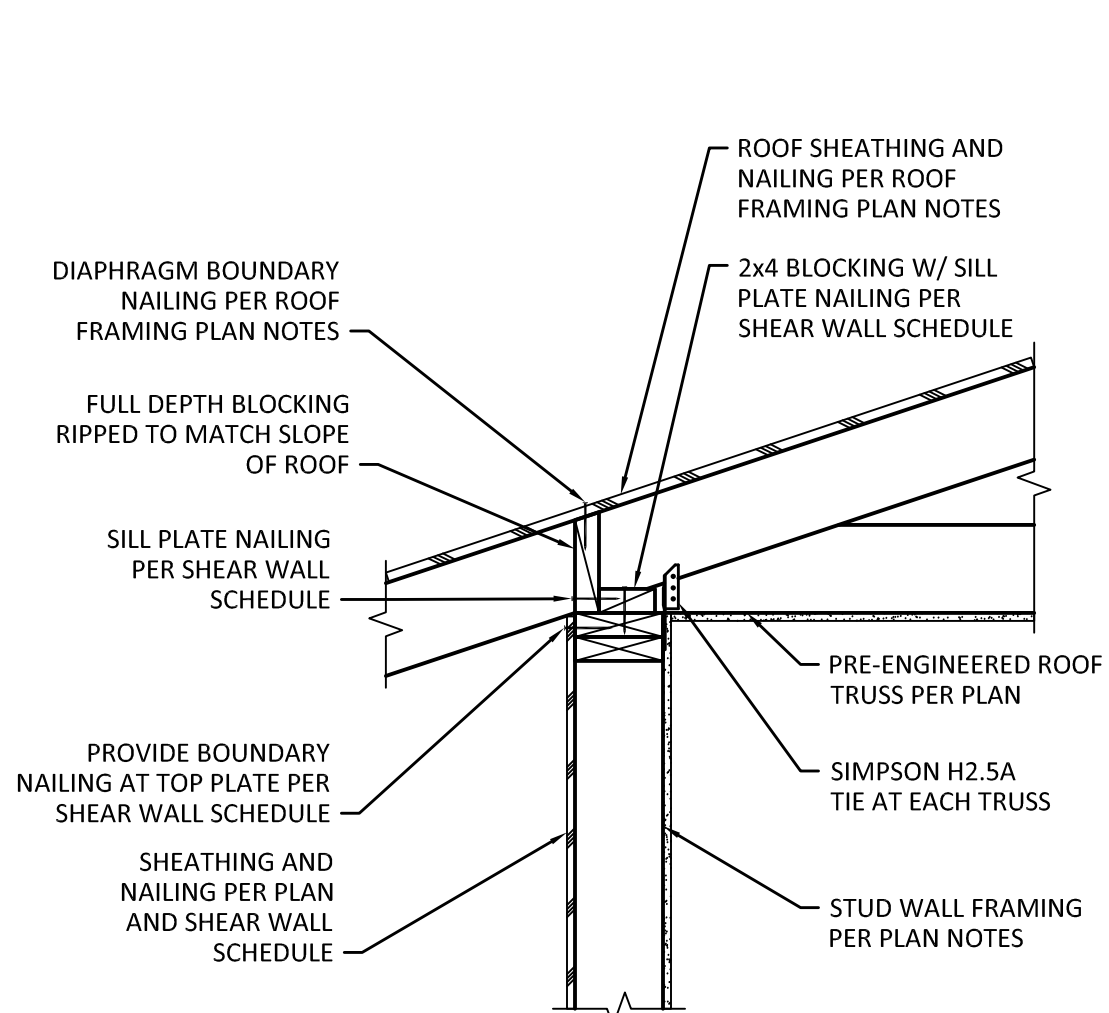
| MARK | DATE | DESCRIPTION |
|------|----------|------------------|
| | 05/11/18 | PERMIT SUBMITTAL |
| | 07/18/19 | COMMENT RESPONSE |

| | |
|---------|----------|
| DESIGN: | JGG |
| DRAWN: | ZOS |
| CHECK: | GAG |
| JOB NO: | 15227.10 |
| DATE: | 05/11/18 |

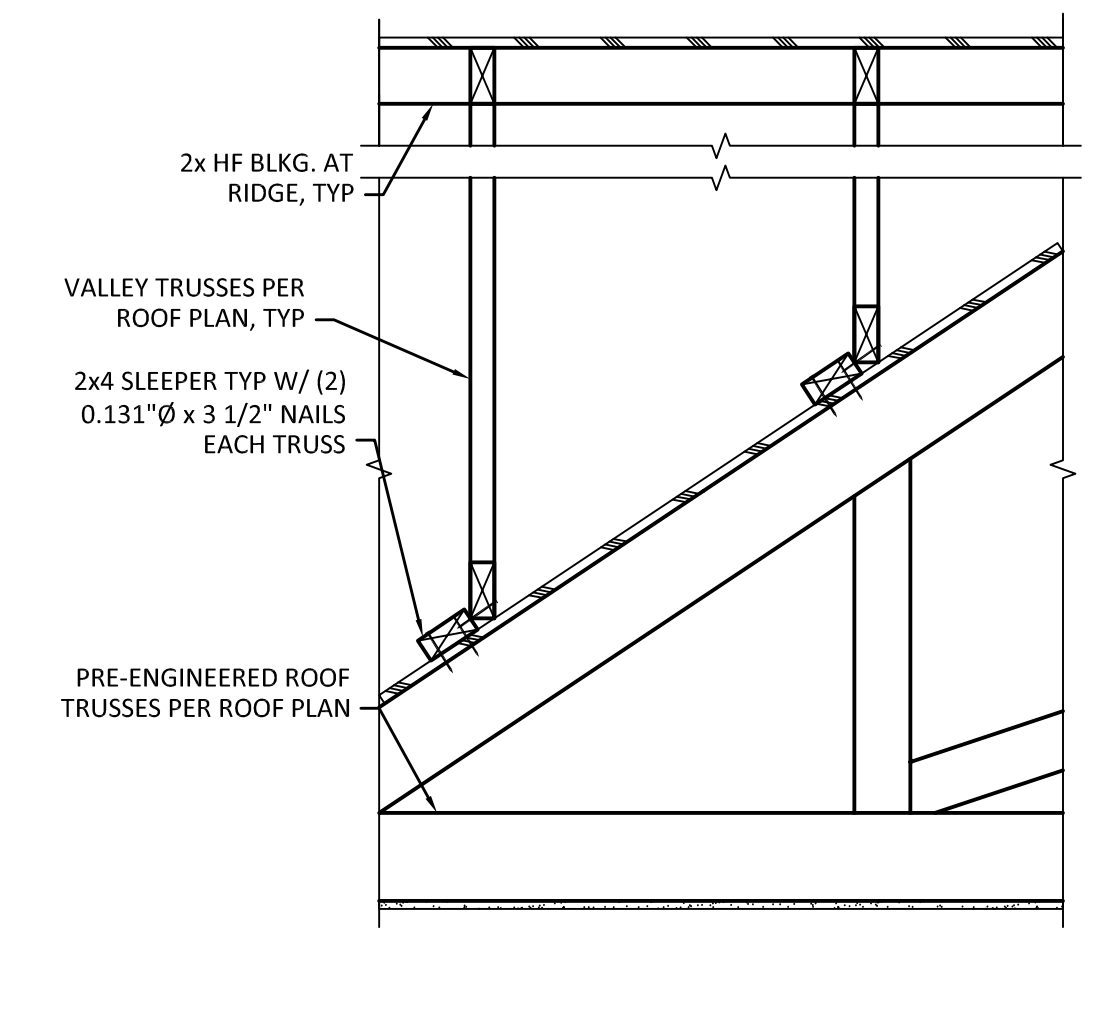
RUDOLF RESIDENCE
 8253 W MERCER WAY
 MERCER ISLAND, WA 98040

ROOF FRAMING DETAILS

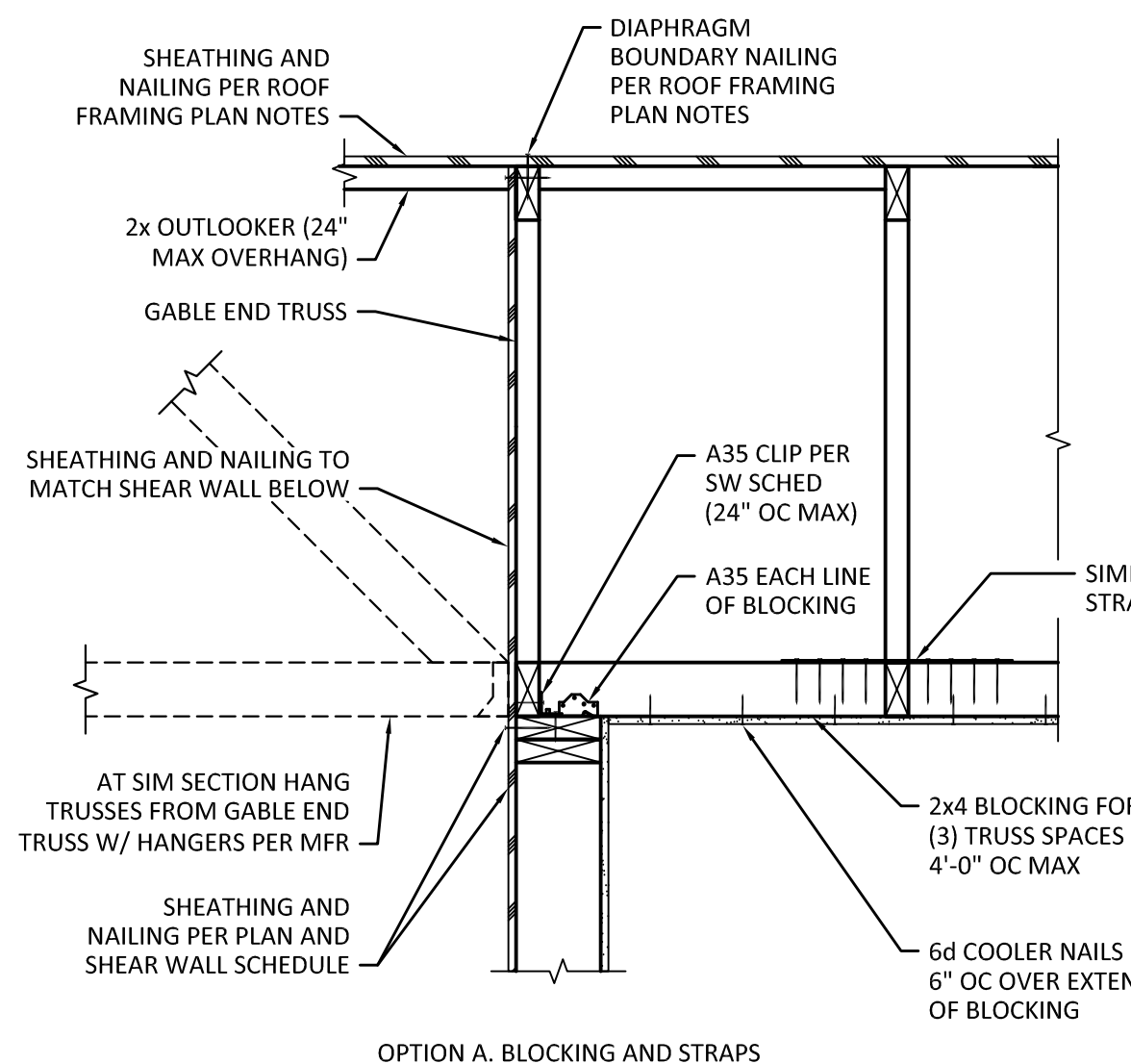
SHEET:
S6.1



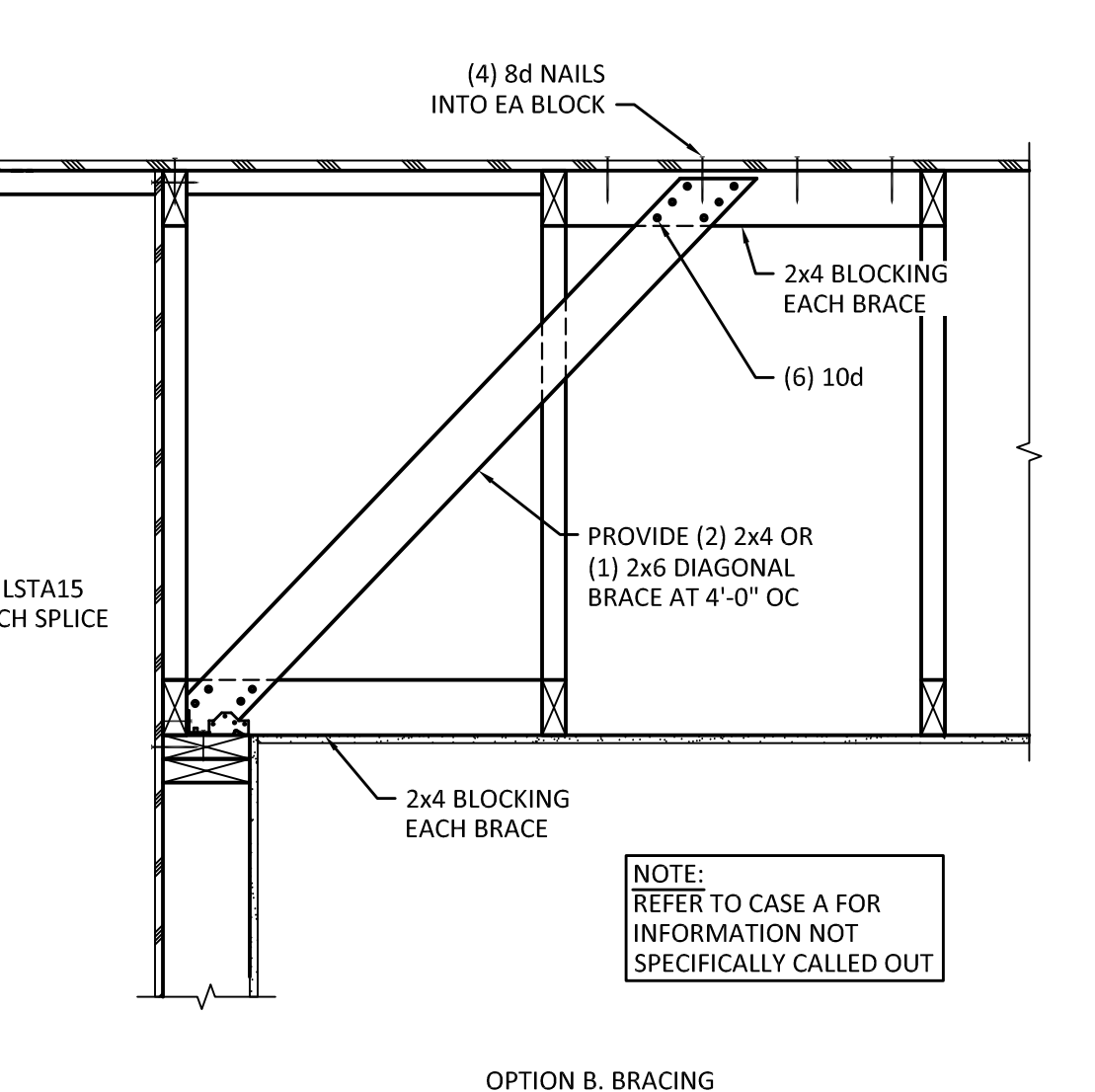
1 TYPICAL TRUSS SUPPORT DETAIL
 SCALE: 1" = 1'-0"



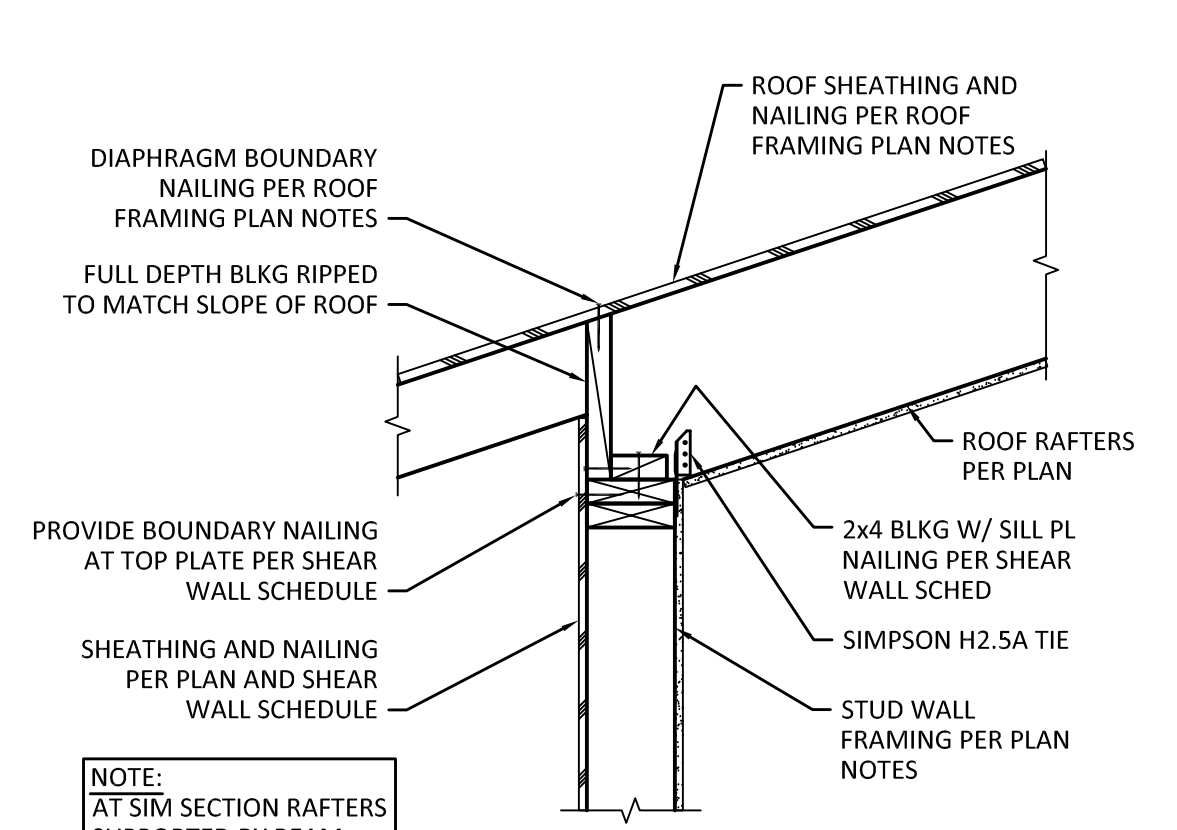
2 TYPICAL OVERFRAMING DETAIL
 SCALE: 1" = 1'-0"



3 TYPICAL GABLE END SECTION
 SCALE: 1" = 1'-0"

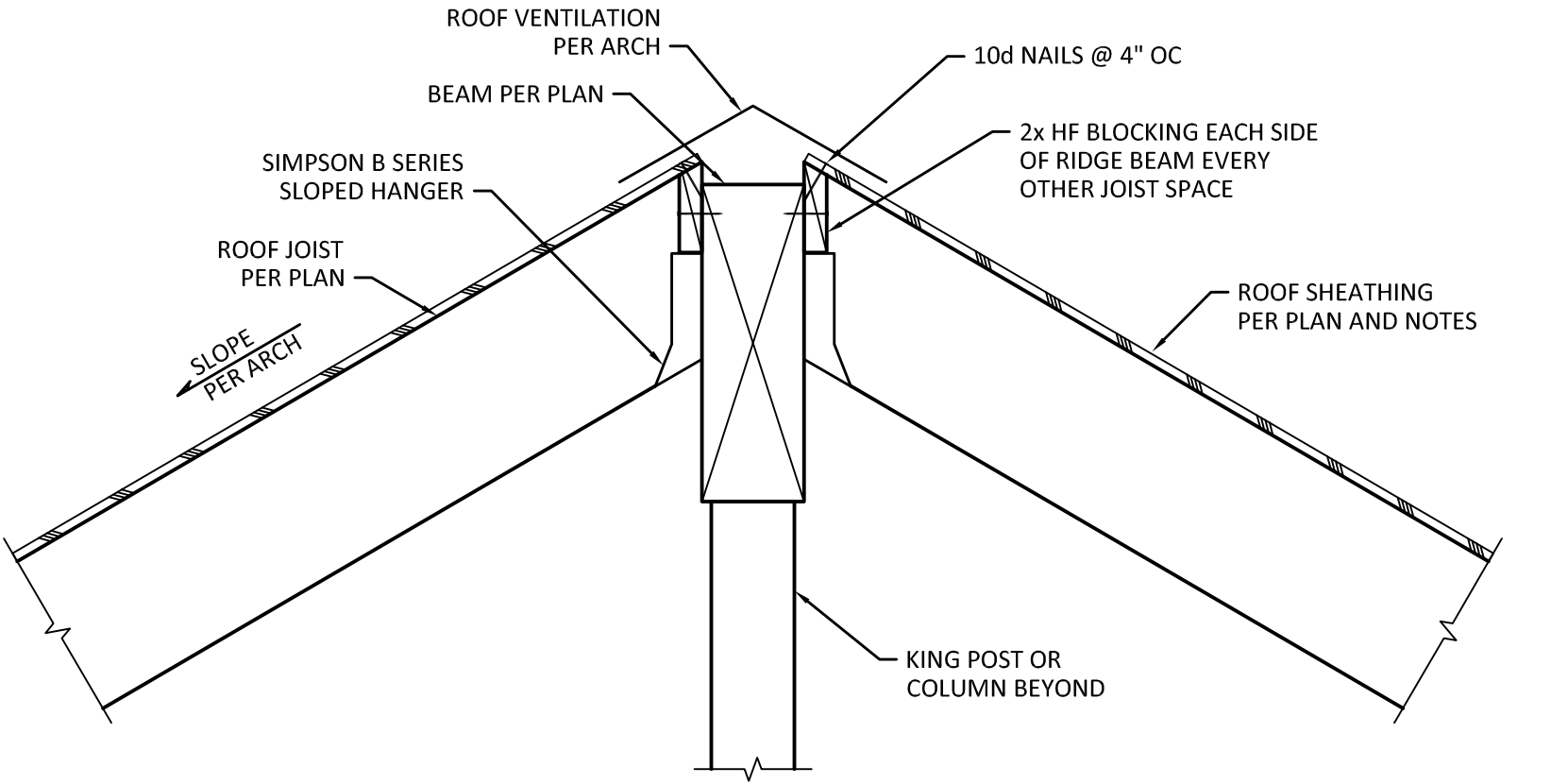


OPTION B. BRACING
 NOTE: REFER TO CASE A FOR INFORMATION NOT SPECIFICALLY CALLED OUT

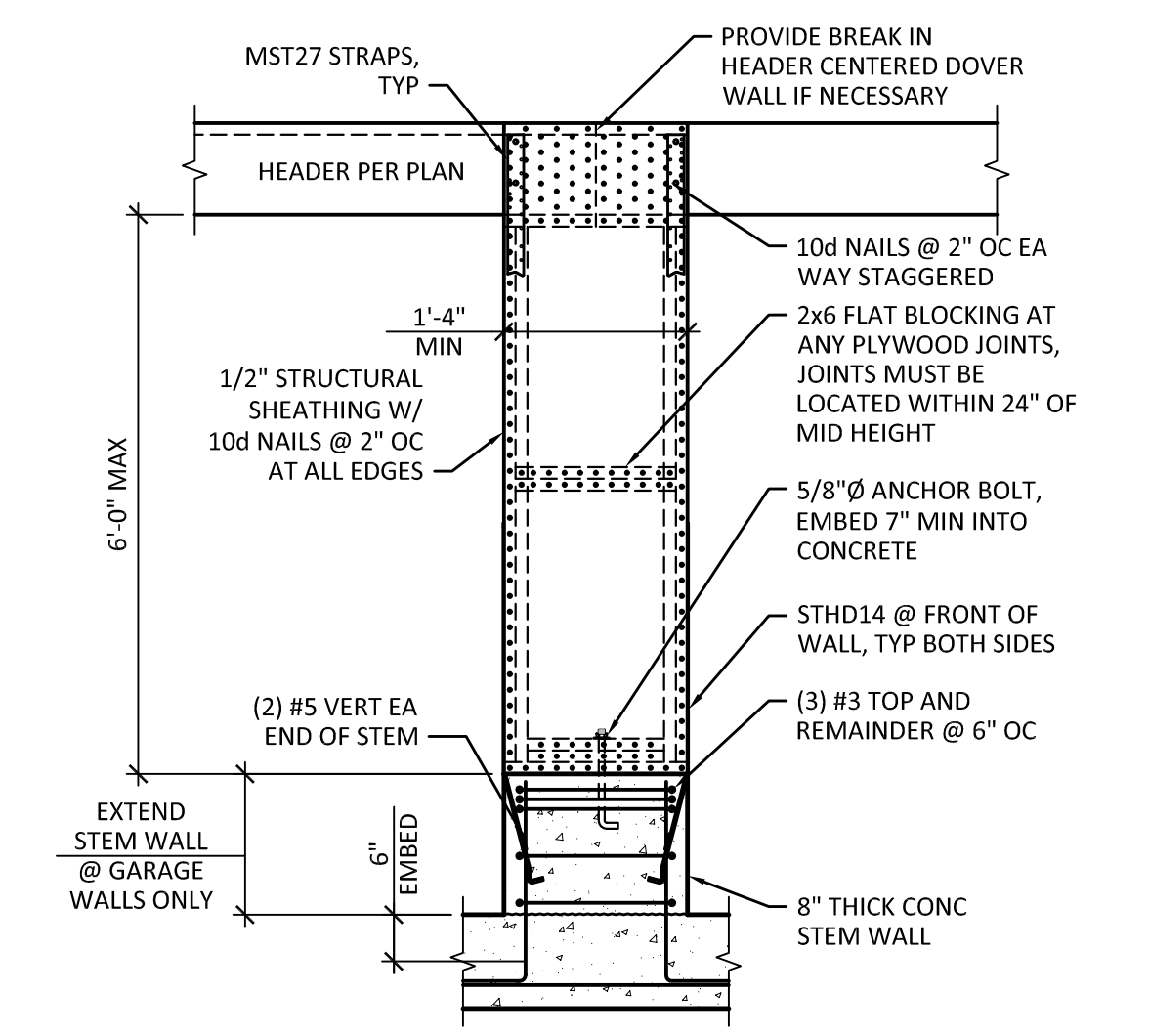


4 TYPICAL RAFTER SUPPORT DETAIL
 SCALE: 1" = 1'-0"

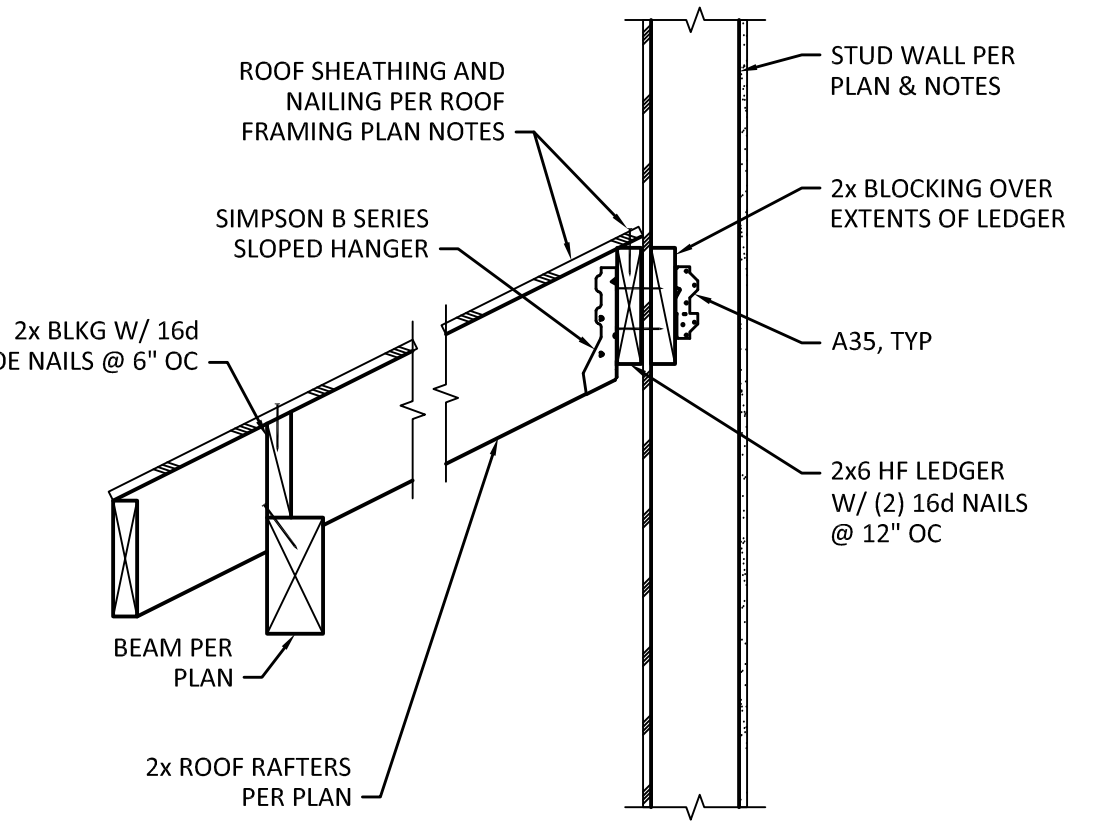
NOTE: AT SIM SECTION RAFTERS SUPPORTED BY BEAM



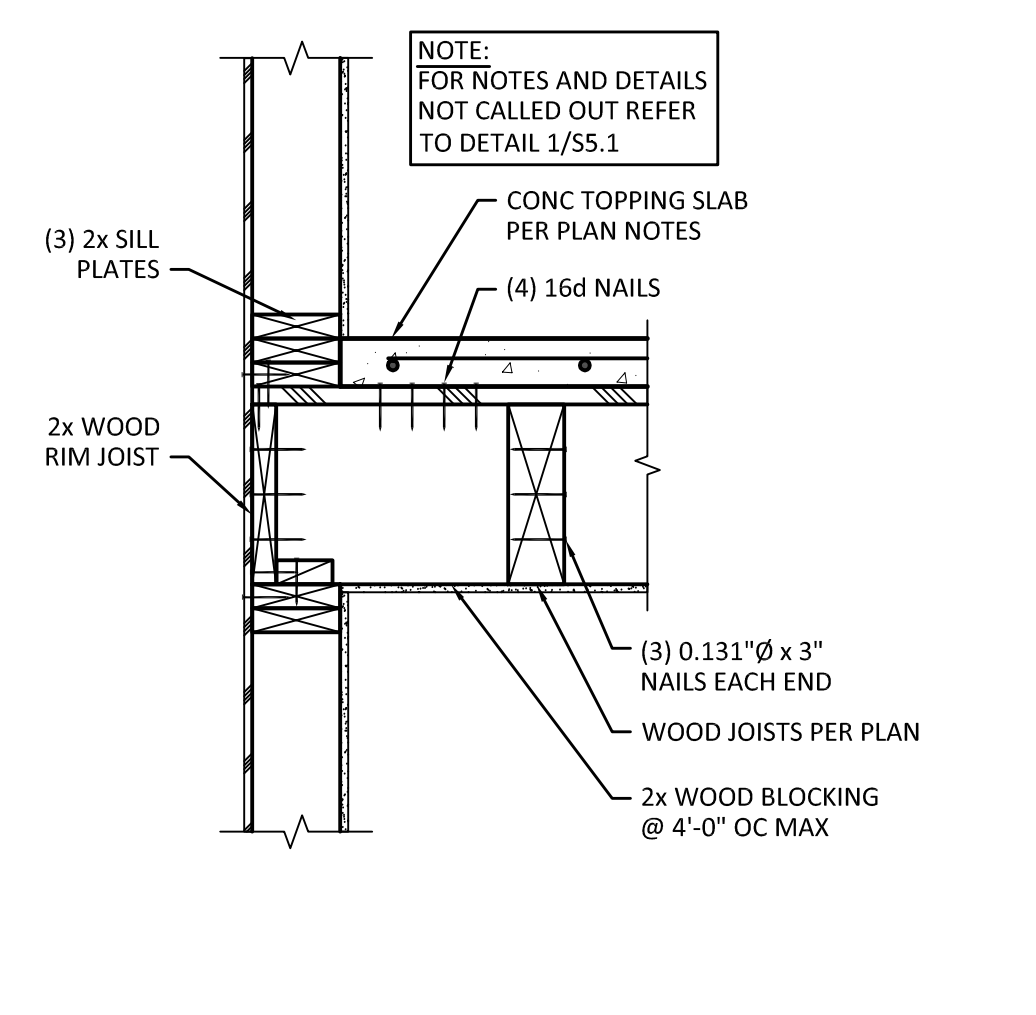
5 SECTION
 SCALE: 1" = 1'-0"



6 PORTAL FRAME AT GARAGE ENTRANCE
 SCALE: 1/2" = 1'-0"

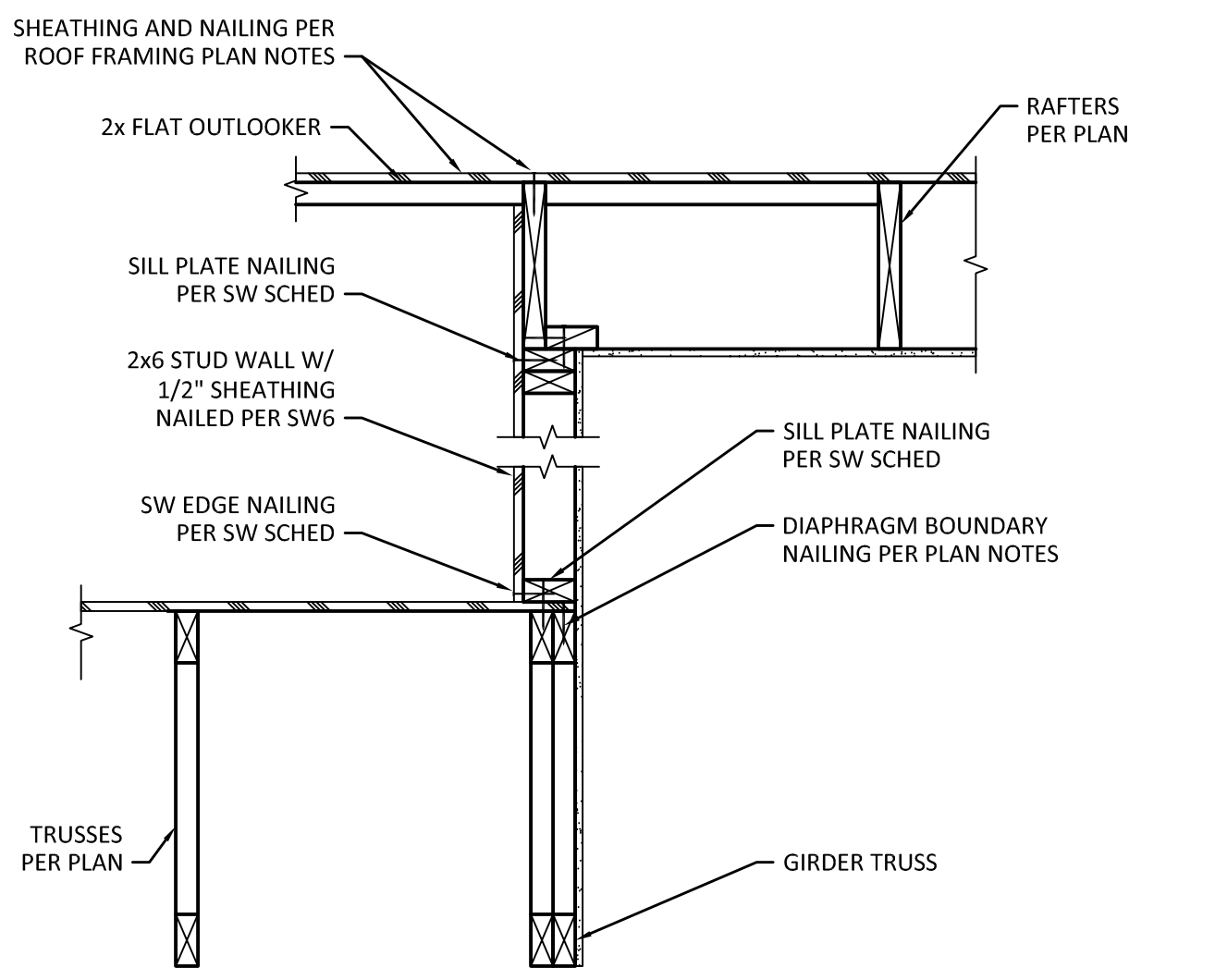


7 SECTION
 SCALE: 1" = 1'-0"

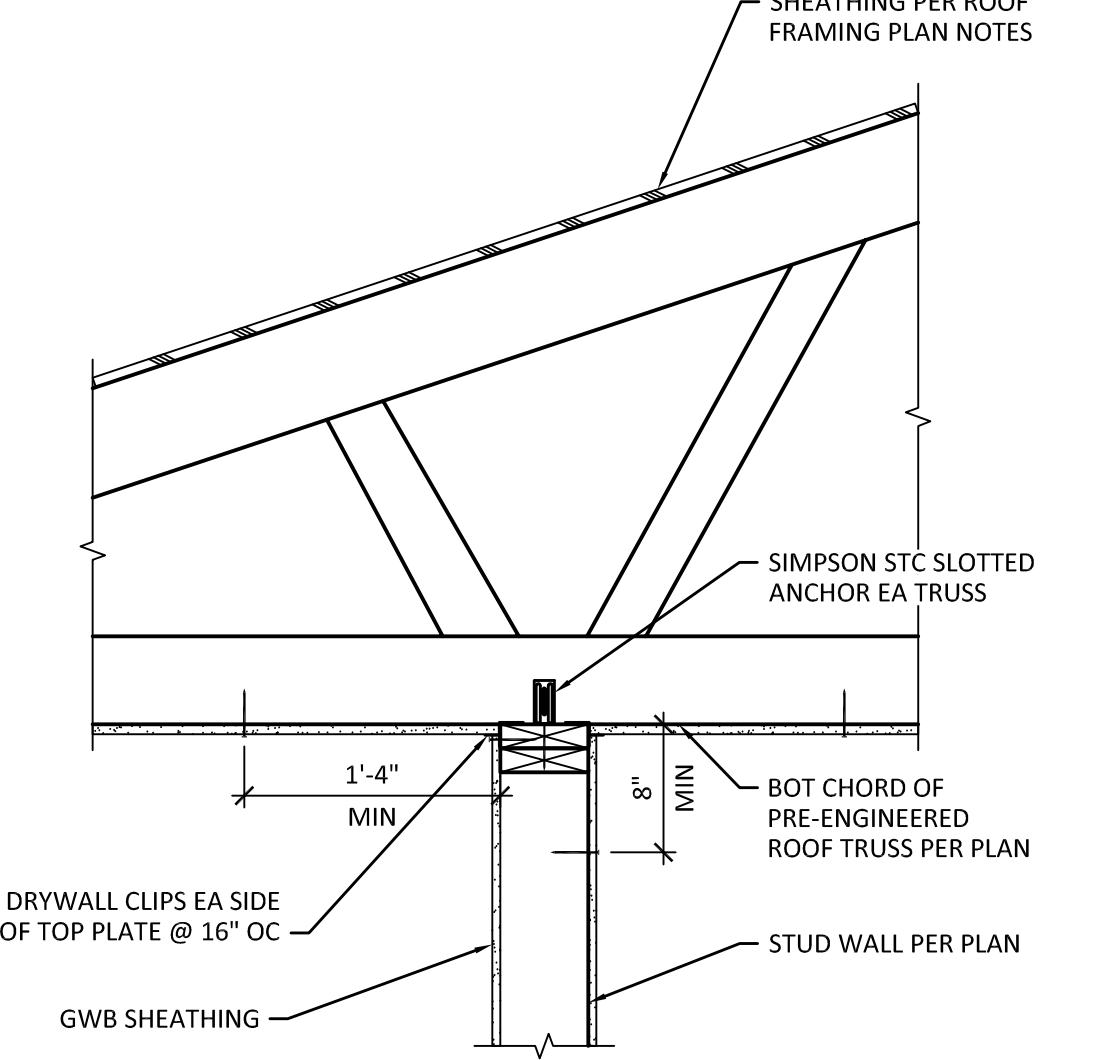


8 TYPICAL STUD WALL FRAMING DETAIL
 SCALE: 1" = 1'-0"

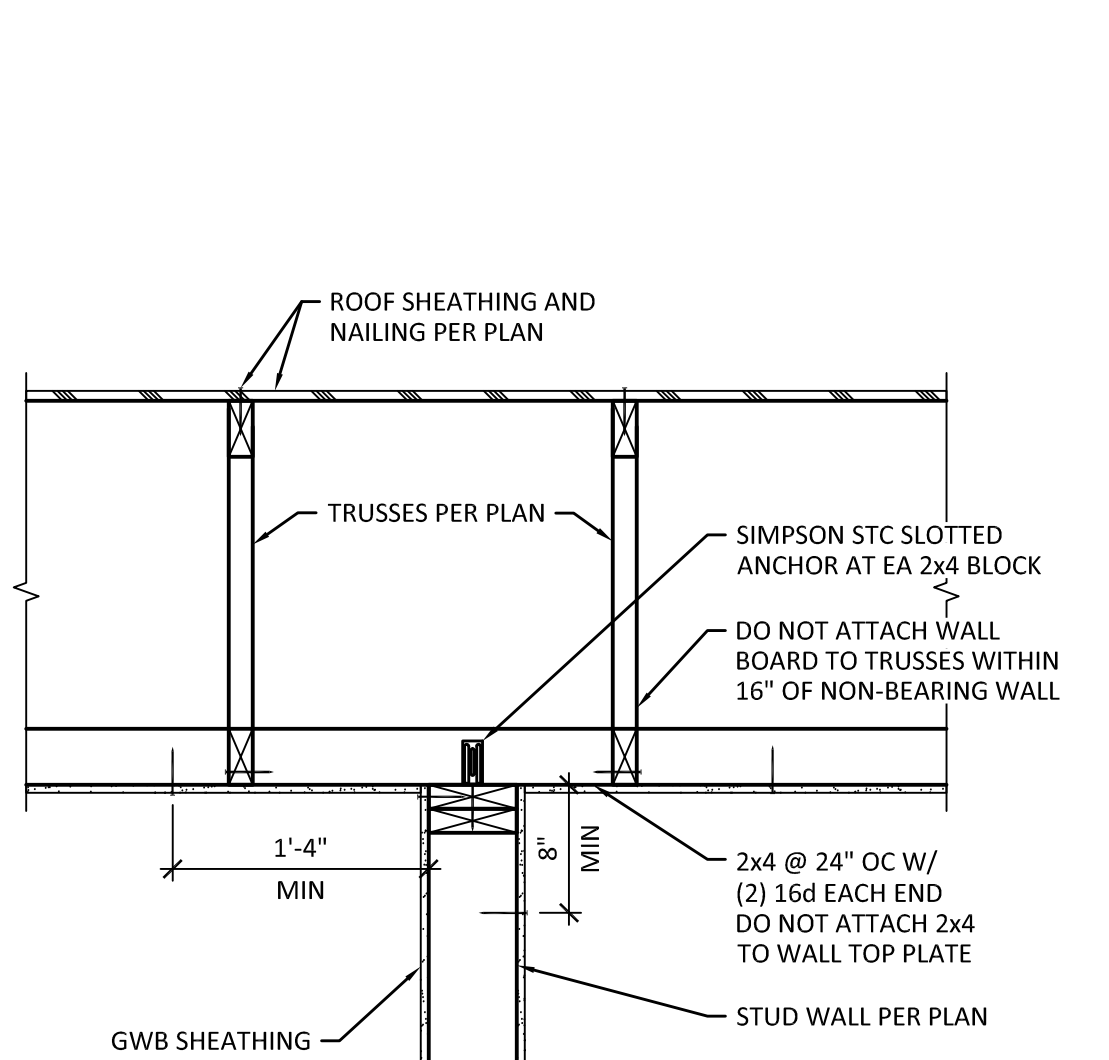
EXTERIOR WALL PARALLEL TO JOISTS



9 SECTION
 SCALE: 1" = 1'-0"

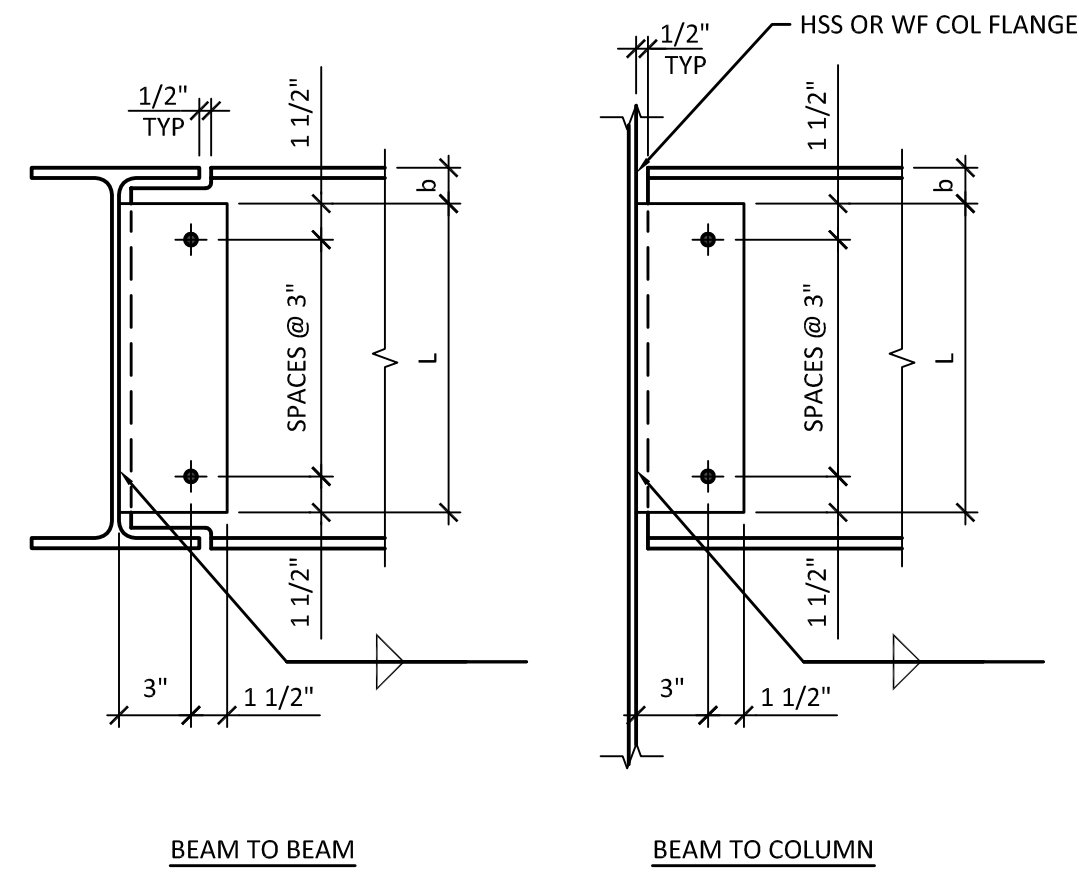


10 INTERIOR NON-BEARING WALL TO ROOF TRUSS CONNECTION
 SCALE: 1" = 1'-0"



11 INTERIOR NON-BEARING WALL TO TRUSS BLOCKING
 SCALE: 1" = 1'-0"

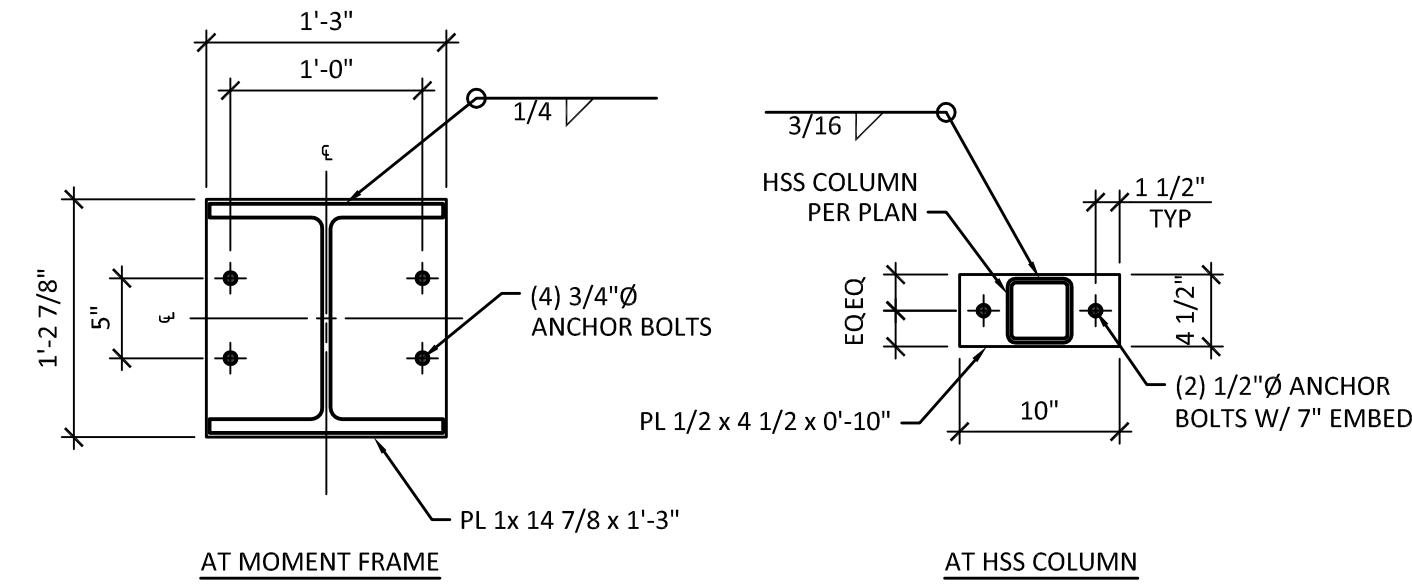




| BEAM SIZE | NO OF BOLTS | PL LENGTH (L) | PL THICKNESS | WELD SIZE | DIM (a) | DIM (b) |
|-----------|-------------|---------------|--------------|-----------|---------|---------|
| W10 | (2) 7/8"Ø | 6" | 1/4" | 3/4" | 1 1/2" | 1 1/2" |
| W14 | (3) 7/8"Ø | 9" | 3/8" | 5/16" | 1 1/2" | 1 1/2" |

NOTES:
 1. ALL BOLTS SHALL BE A490-N, TYP UNO BOLT HOLES SHALL BE STANDARD SIZE, TYP UNO.
 2. BOLT INSTALLATION SHALL BE PER AISC SPECIFICATIONS, LATEST EDITION.

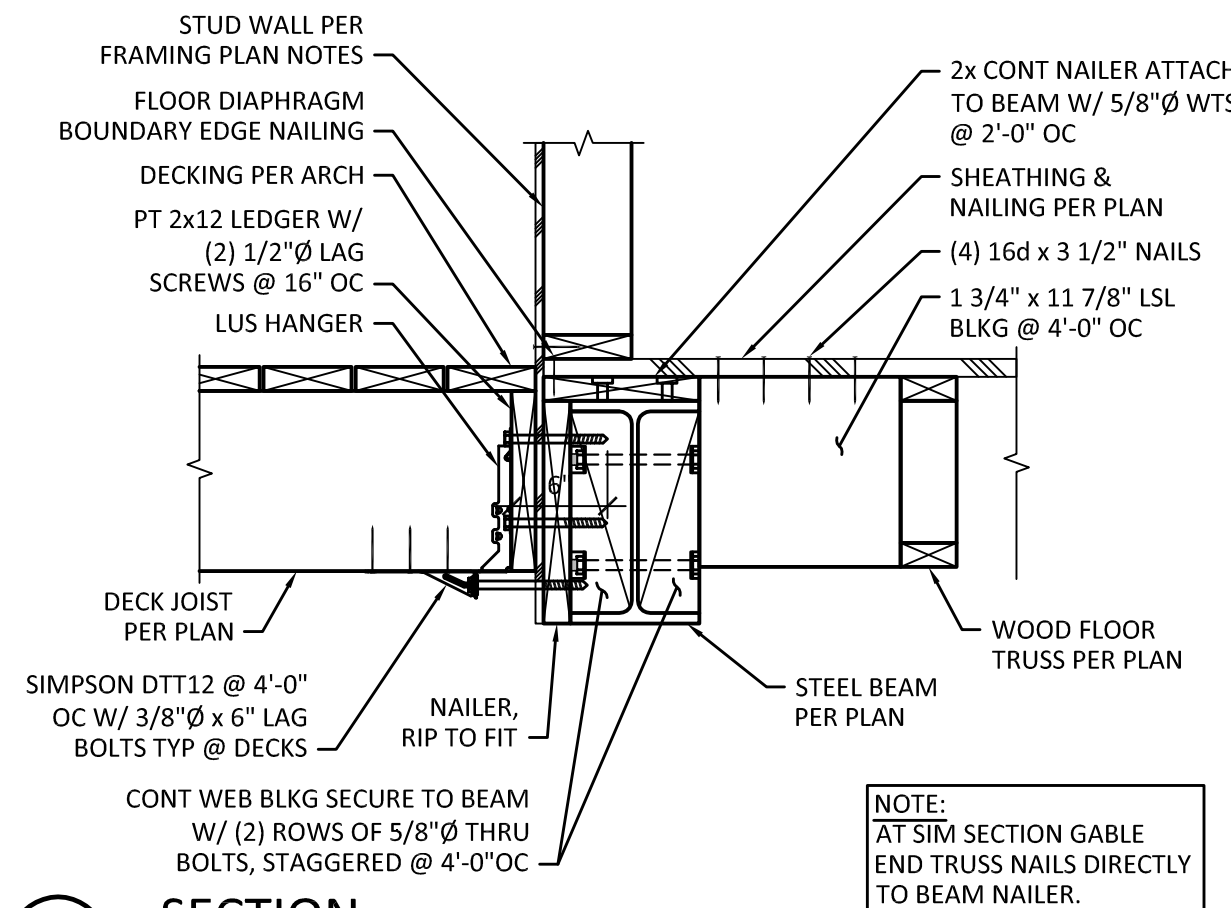
1 TYPICAL SINGLE PLATE SHEAR CONNECTION TABLE
 SCALE: NTS



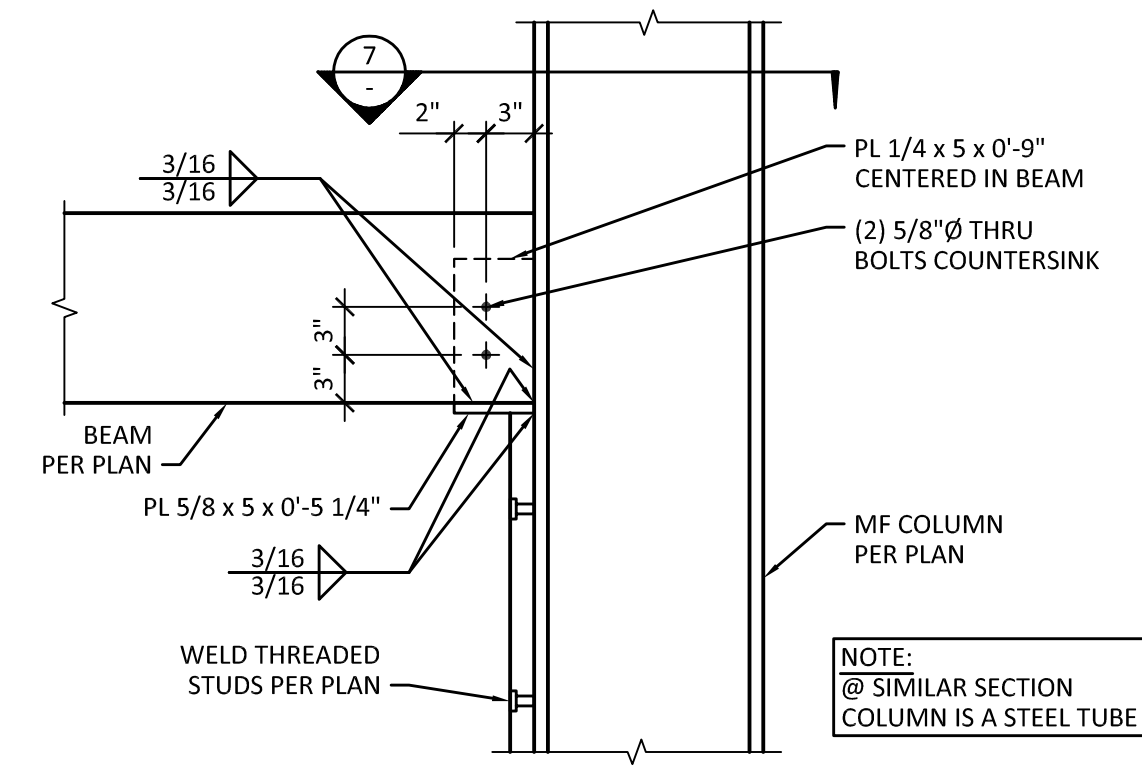
2 TYPICAL BASE PLATE DETAIL
 SCALE: 1" = 1'-0"

3 NOT USED
 SCALE: 1 1/2" = 1'-0"

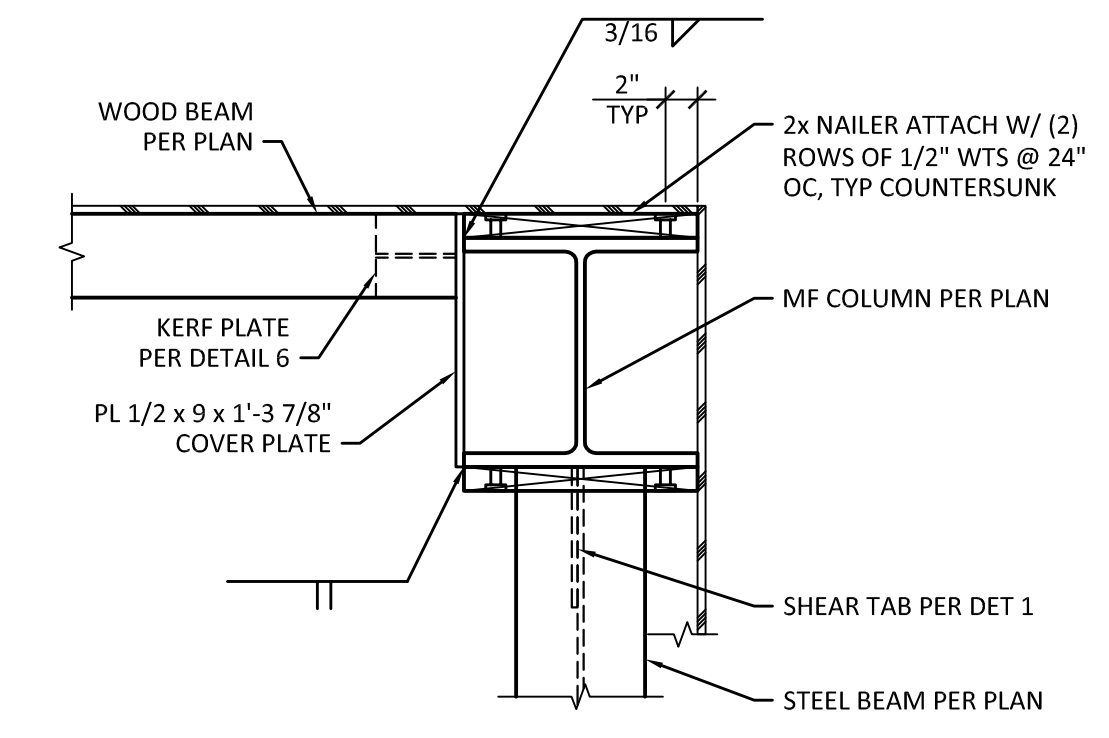
4 NOT USED
 SCALE: 1" = 1'-0"



5 SECTION
 SCALE: 1" = 1'-0"



6 KERF PLATE AT STEEL COLUMN
 SCALE: 1" = 1'-0"



7 WOOD BEAM PERPENDICULAR TO MF COLUMN
 SCALE: 1" = 1'-0"

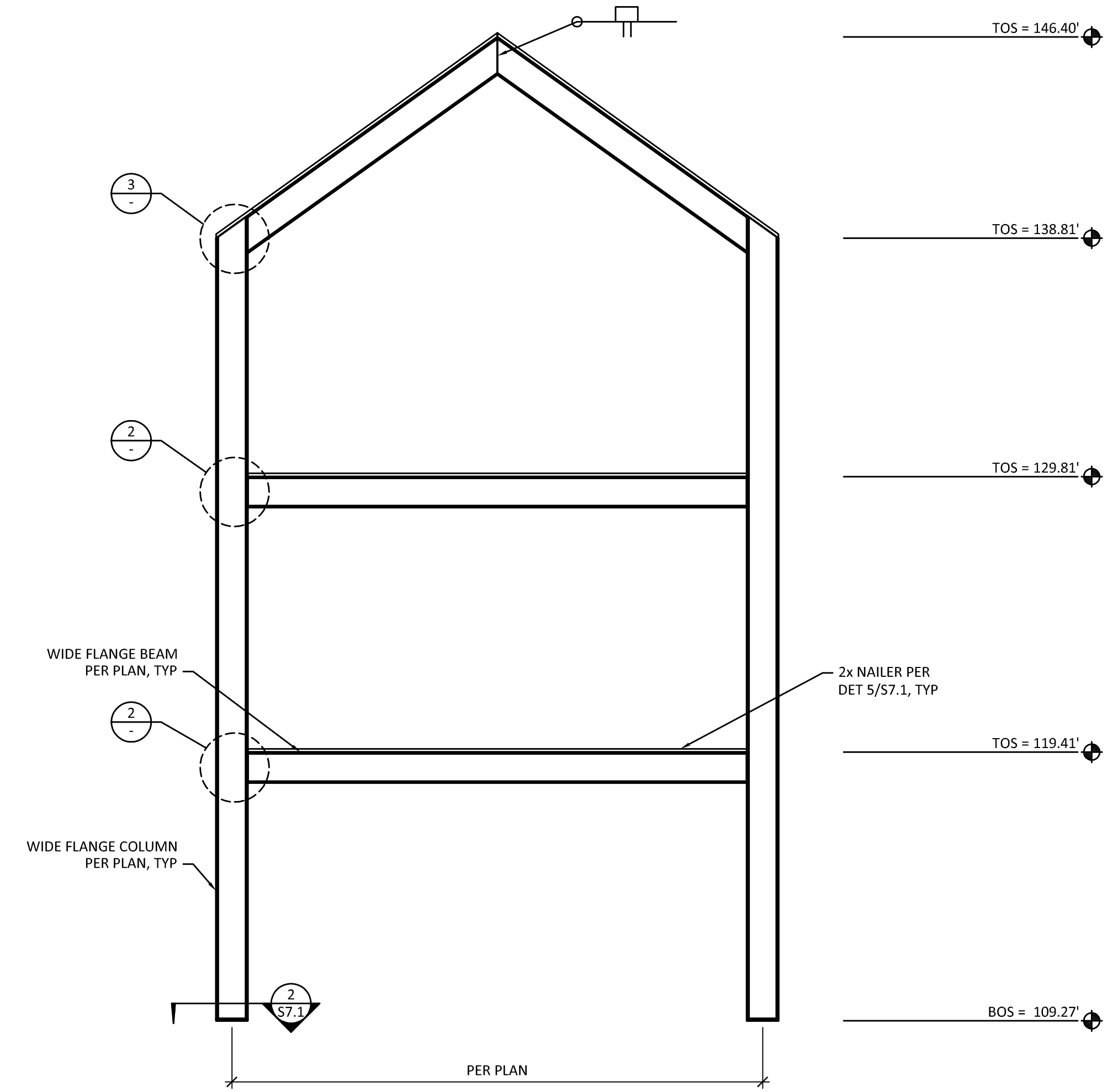


| MARK | DATE | DESCRIPTION |
|------|----------|------------------|
| | 05/11/18 | PERMIT SUBMITTAL |
| | 07/18/19 | COMMENT RESPONSE |

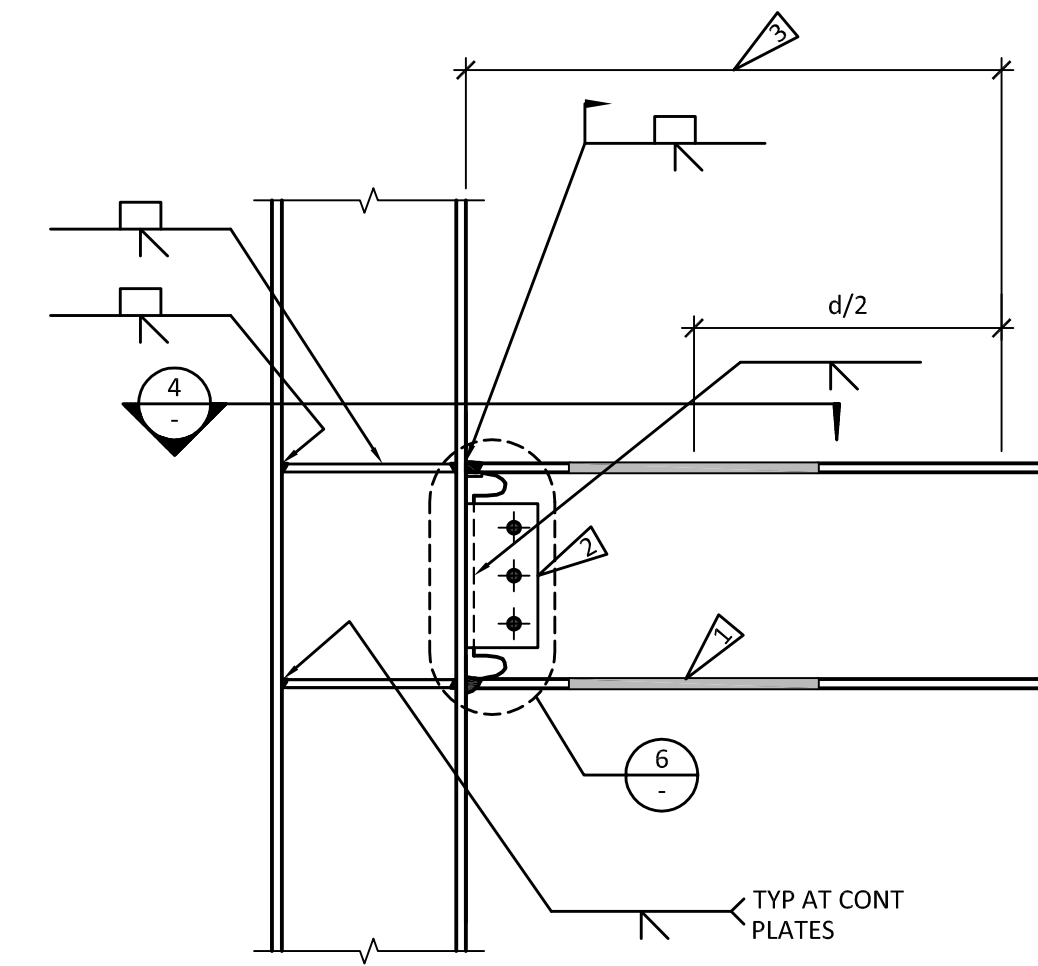
| | |
|---------|----------|
| DESIGN: | JGG |
| DRAWN: | ZOS |
| CHECK: | GAG |
| JOB NO: | 15227.10 |
| DATE: | 05/11/18 |

RUDOLF RESIDENCE
 8253 W MERCER WAY
 MERCER ISLAND, WA 98040

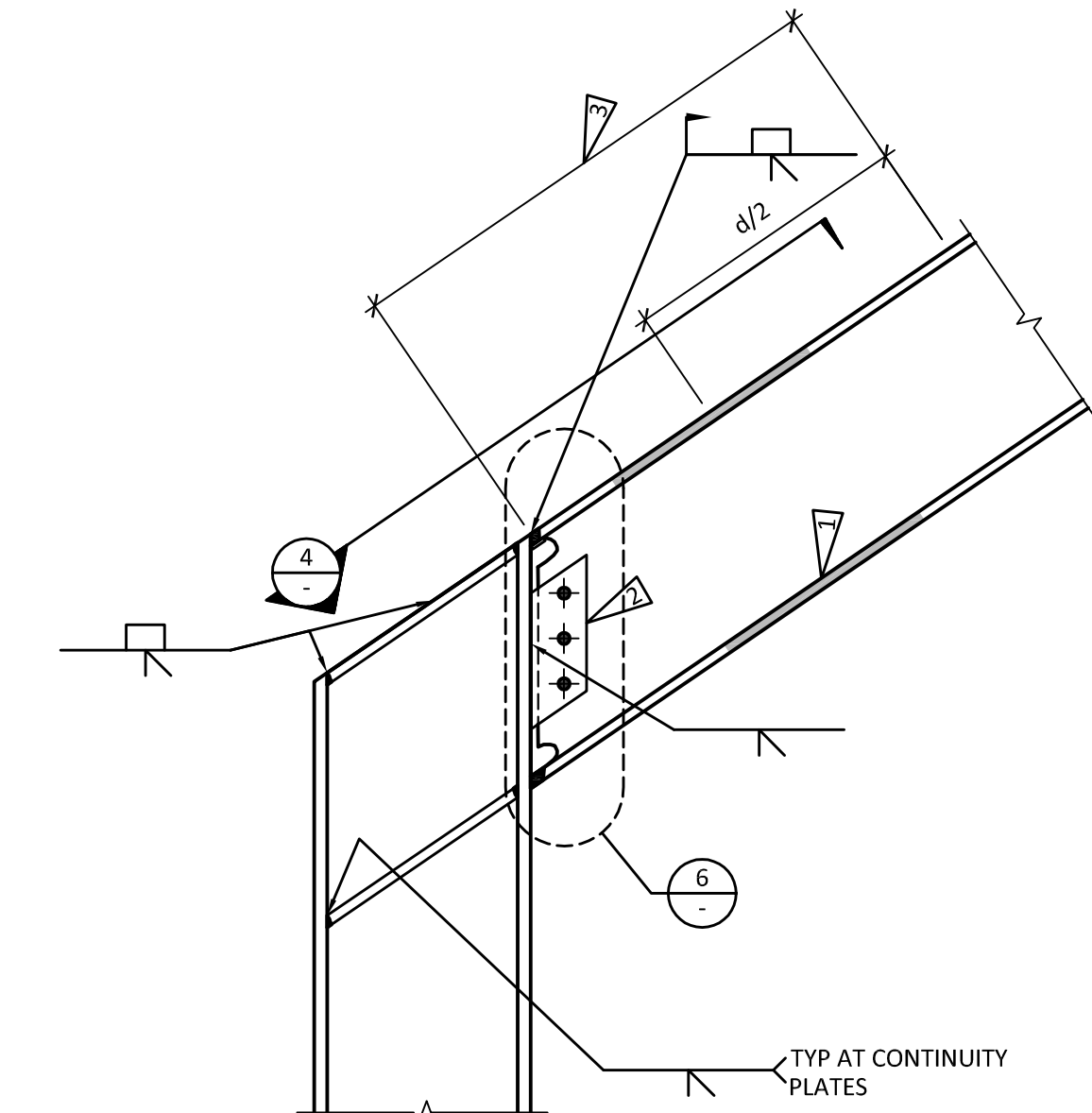
STEEL FRAMING DETAILS



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



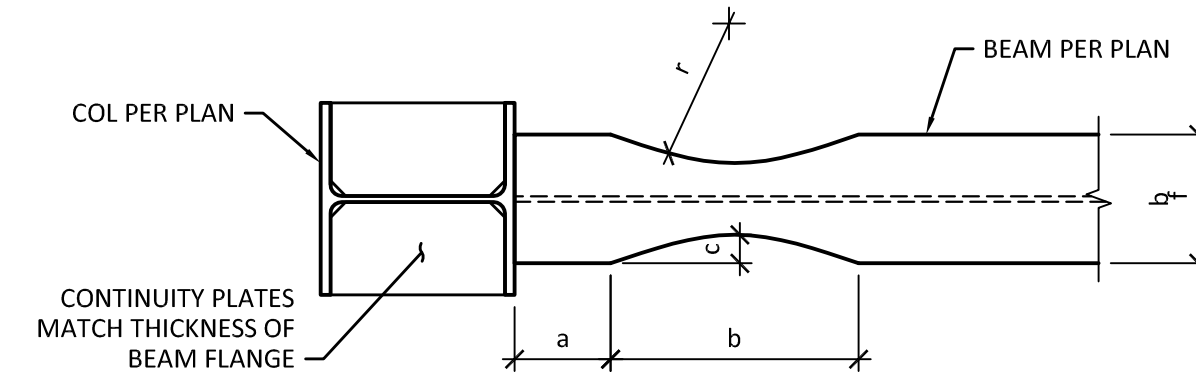
FLAG NOTES:
 SURFACE ROUGHNESS NOT GREATER THAN 500 MICROINCHES.
 NO PAINT INSIDE FAYING ZONE.
 NO DRILLING OR WELDING IN THIS PROTECTED AREA.



FLAG NOTES:
 SURFACE ROUGHNESS NOT GREATER THAN 500 MICROINCHES.
 NO PAINT INSIDE FAYING ZONE.
 NO DRILLING OR WELDING IN THIS PROTECTED AREA.

2 TYPICAL SEISMIC BEAM SECTION
SCALE: 1" = 1'-0"

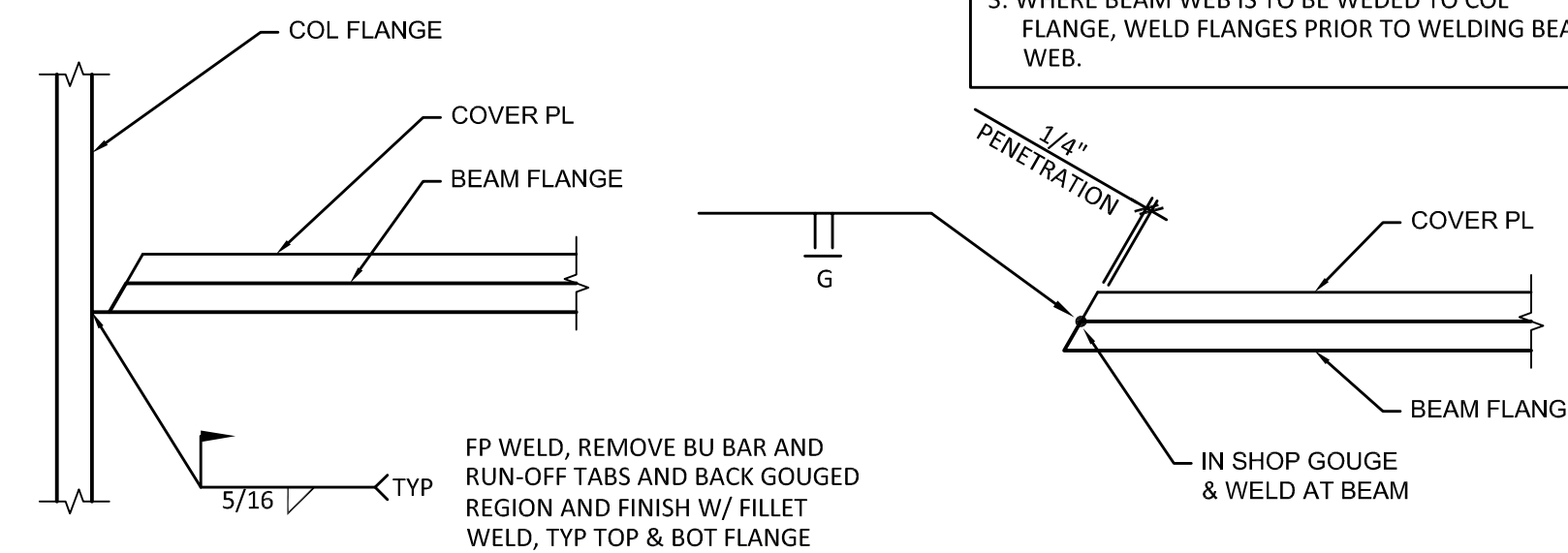
3 SEISMIC BEAM SECTION
SCALE: 1/4" = 1'-0"



$a = 0.6 b_f$ $b = 0.75 d$
 $c = 0.2 b_f$
 $r = \frac{4c^2 + b^2}{8c}$

NOTES:
 1. TOLERANCES FOR RBS SECTION - a: ± 15%
 b: ± 15%
 c: ± 1/4"
 2. GOUGES UP TO 1/4" DEEP SHALL BE REPAIRED BY GRINDING OUT A LENGTH OF 10x DEPTH OF GOUGE.

4 TYPICAL REDUCED BEAM SECTION
SCALE: 1" = 1'-0"

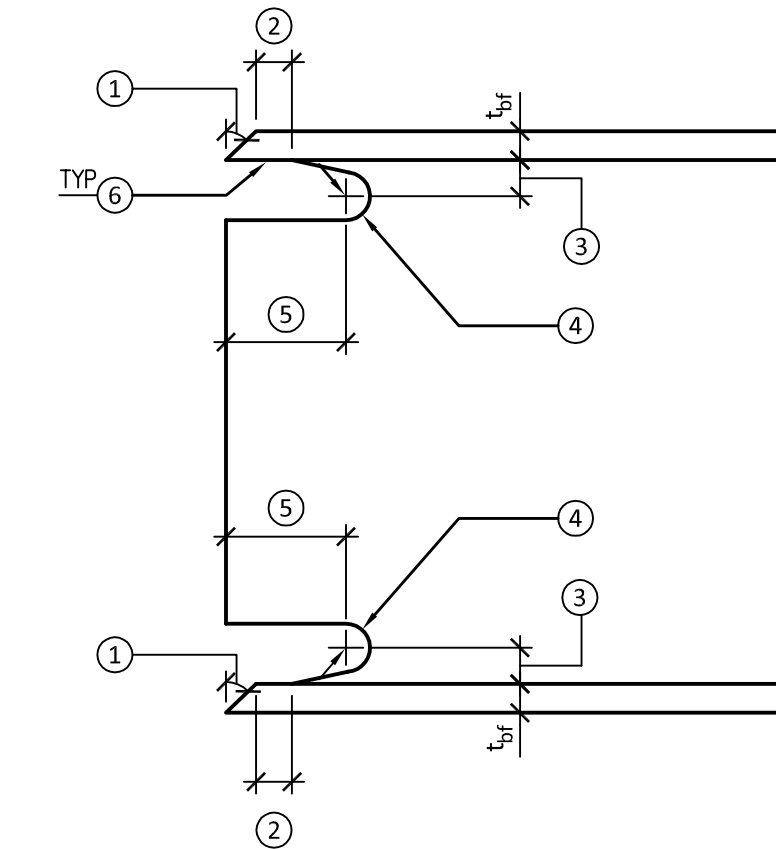


A. MOMENT FRAME BEAM FLANGE WELD

B. SHOP PREPARATION FOR COVER PLATE

NOTE:
 1. REFER TO DET B FOR SHOP PREPARATION OF BEAM FLANGE AND COVER PL
 2. THIS DETAIL SHOWS MOMENT FRAME BEAM FLANGE WELD AT TOP FLANGE. WELD AT BOTTOM SIM.
 3. WHERE BEAM WEB IS TO BE WEDED TO COL FLANGE, WELD FLANGES PRIOR TO WELDING BEAM WEB.

5 MOMENT FRAME BEAM FLANGE WELD
SCALE: NTS



NOTES:
 1 BEVEL AS REQUIRED PER AWS D1.1 FOR SELECTED GROVE WELD PROCEDURE.
 2 LARGER OF t_{bf} OR 1/2" (PLUS 1/2 t_{bf} OR MINUS 1/4 t_{bf}).
 3 3/4 t_{bf} TO t_{bf} W/ 3/4" MIN (±1/4").
 4 3/8" MIN RADIUS (PLUS NOT LIMITED, MINUS 0).
 5 3 t_{bf} (±1/2").
 6 REFER TO FEMA 353 DOCUMENT, RECOMMENDED SPECIFICATIONS AND QUALITY ASSURANCE GUIDELINES FOR STEEL MOMENT-FRAME CONSTRUCTION FOR SEISMIC APPLICATIONS, FOR FABRICATION DETAILS INCLUDING CUTTING METHODS AND SMOOTHNESS REQUIREMENTS.

6 TYPICAL WELD ACCESS HOLE
SCALE: 3" = 1'-0"

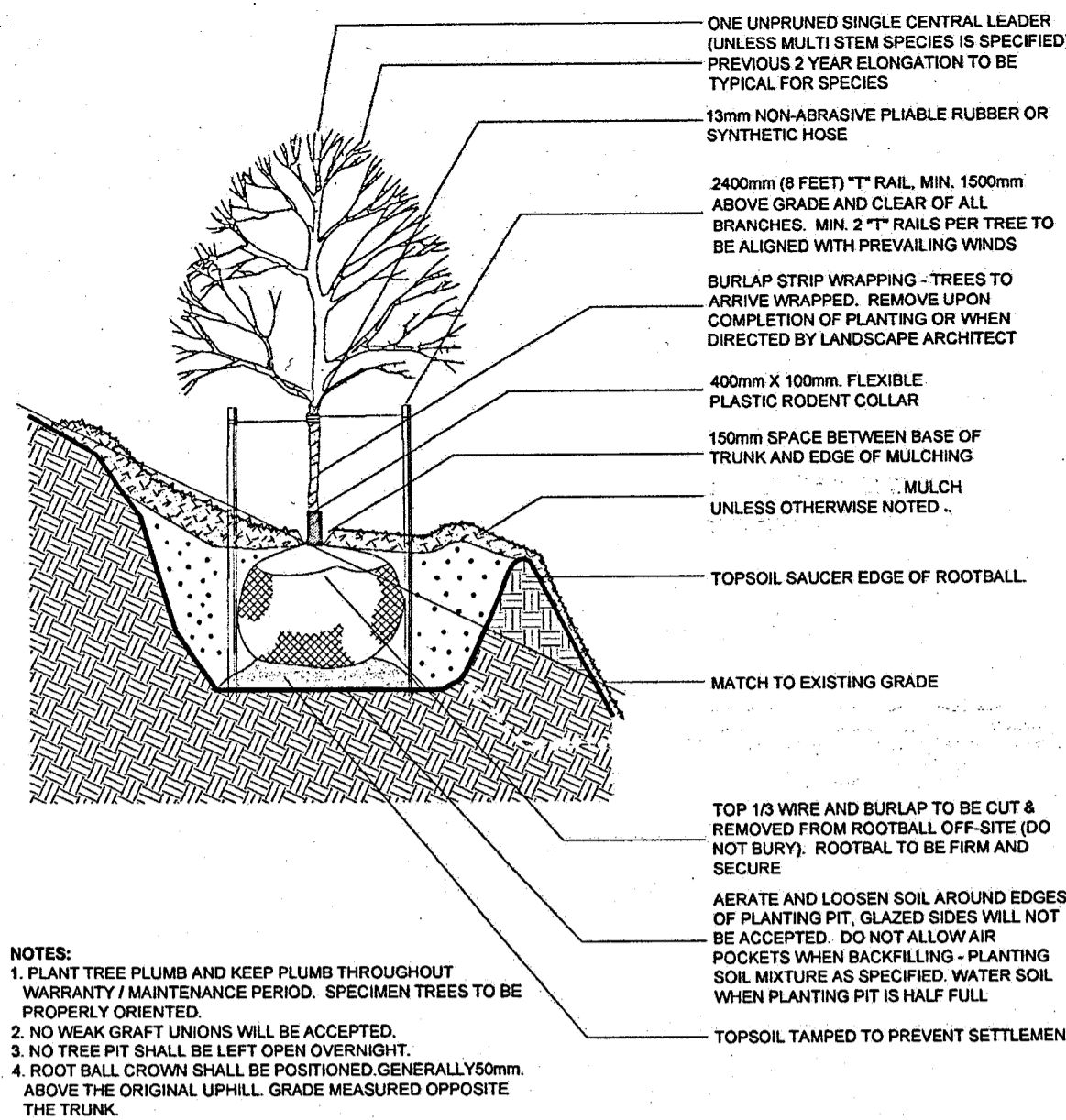
| MARK | DATE | DESCRIPTION |
|------|----------|------------------|
| | 05/11/18 | PERMIT SUBMITTAL |
| | 01/18/19 | COMMENT RESPONSE |

DESIGN: JGG
 DRAWN: ZOS
 CHECK: GAG
 JOB NO: 15227.10
 DATE: 05/11/18

RUDOLF RESIDENCE
 8253 W MERCER WAY
 MERCER ISLAND, WA 98040

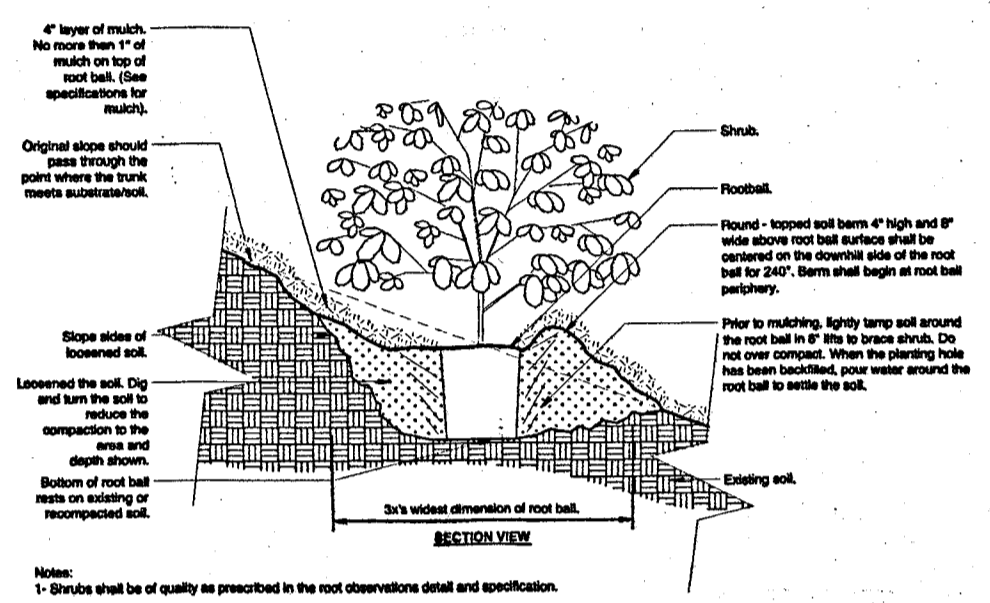
STEEL FRAMING DETAILS

SHEET:

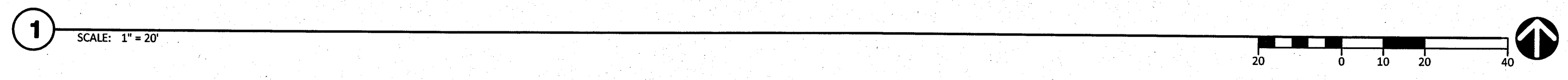
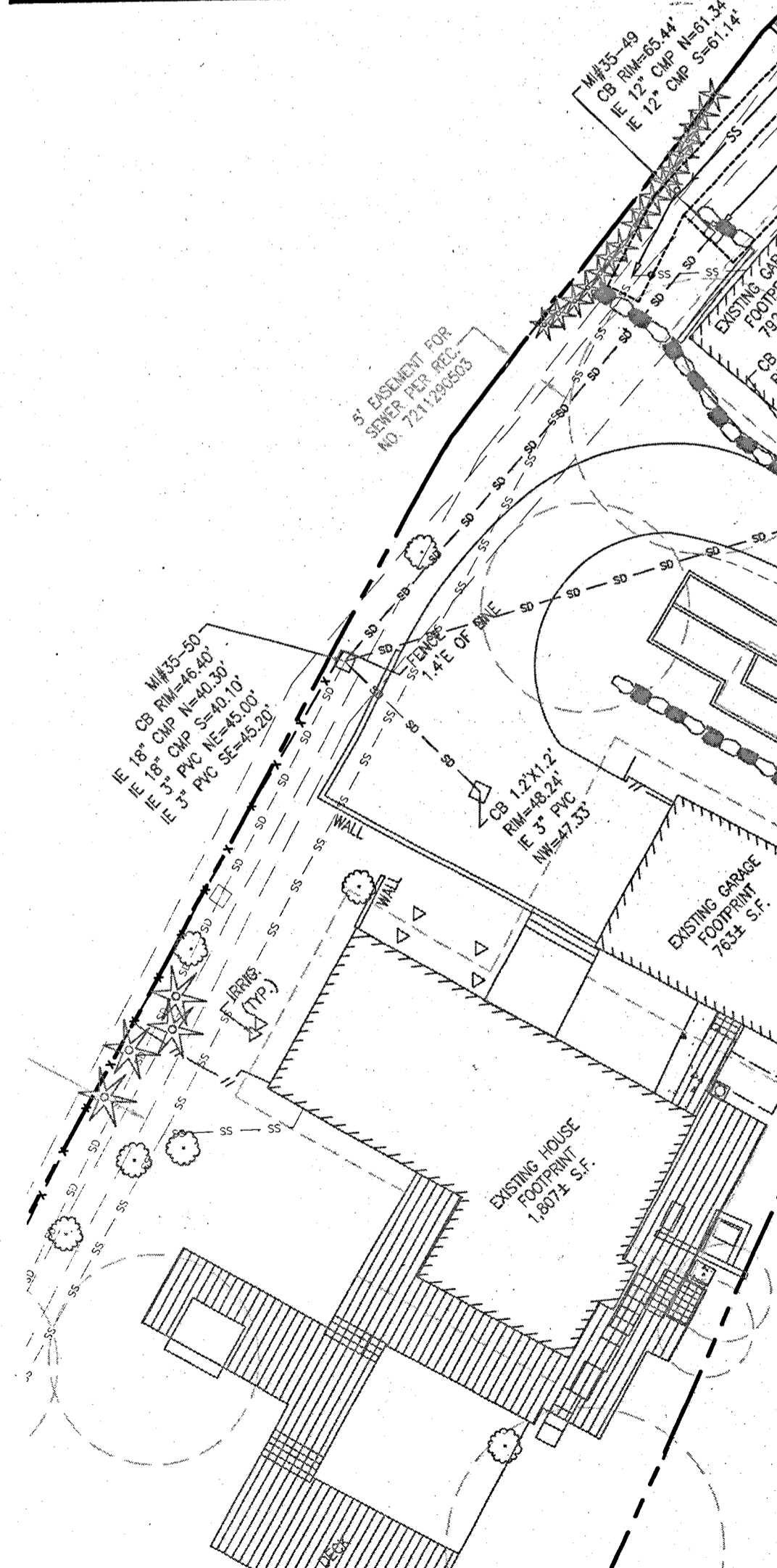


- NOTES:
1. PLANT TREE PLUMB AND KEEP PLUMB THROUGHOUT WARRANTY / MAINTENANCE PERIOD. SPECIMEN TREES TO BE PROPERLY ORIENTED.
 2. NO WEAK GRAFT UNIONS WILL BE ACCEPTED.
 3. NO TREE PIT SHALL BE LEFT OPEN OVERNIGHT.
 4. ROOT BALL CROWN SHALL BE POSITIONED GENERALLY 50mm ABOVE THE ORIGINAL UPHILL GRADE MEASURED OPPOSITE THE TRUNK.

DECIDUOUS TREE PLANTING ON SLOPE

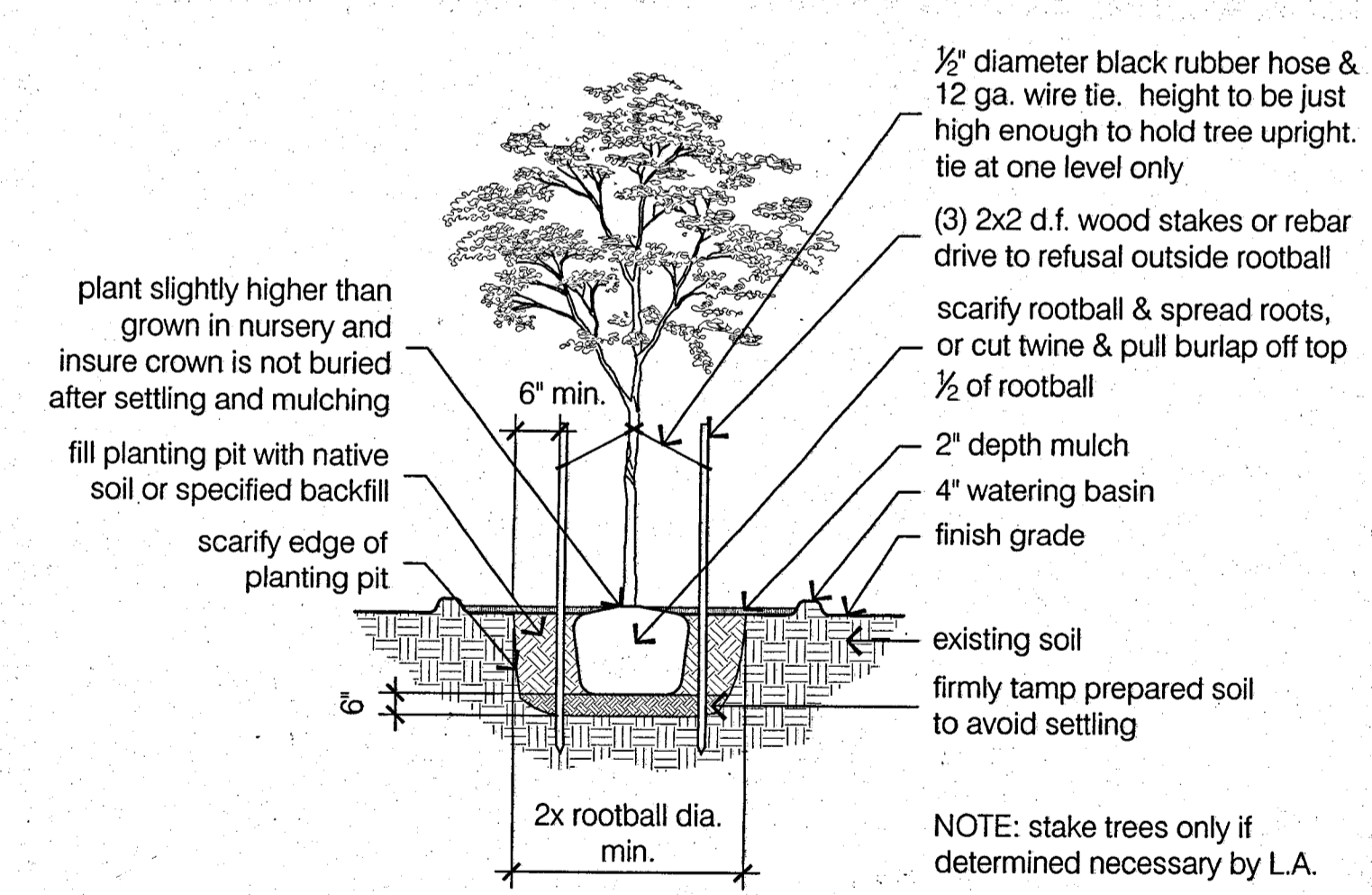


SHRUB / GROUNDCOVER PLANTING ON SLOPE

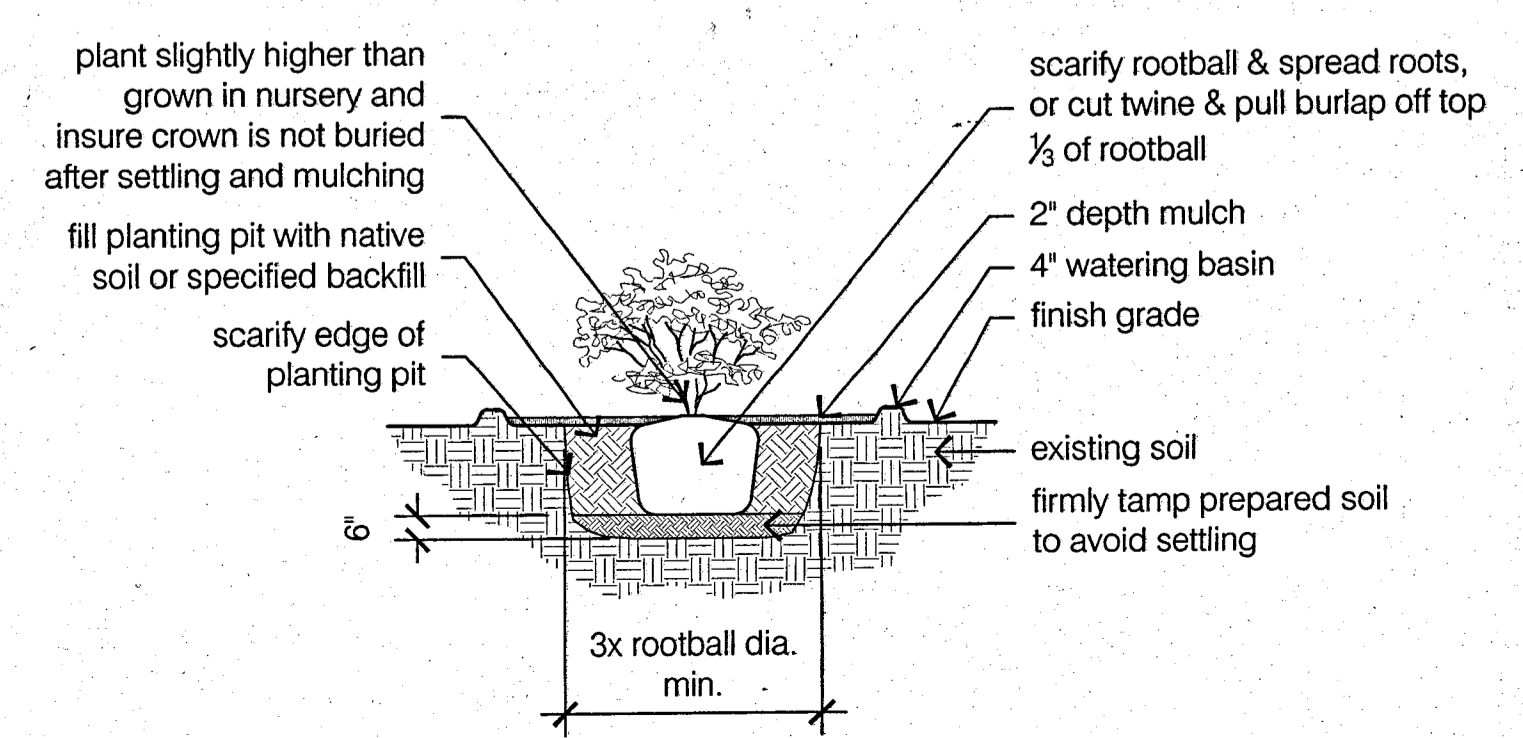


| Symbol | Qty | Botanical / Common name | Size / Spac |
|----------|----------|--|-------------------------|
| [Symbol] | 14 | Acer circinatum / Vine Maple | 5 - 7' Ht multi stem |
| [Symbol] | 8 | Arbutus unedo 'Compacta' / Dwarf Strawberry Tree | 5 G, full As shown |
| [Symbol] | 38 | Cornus sericea 'Isanti' / Isanti Red Osier Dogwood | 5 G, full As shown |
| [Symbol] | 5 | Physocarpus opulifolius 'Diablo' / Ninebark | 5 G, full As shown |
| [Symbol] | 17 | Rosa rugosa / Rugosa Rose | 5 G, full As shown |
| [Symbol] | 36 | Lonicera pileata / Boxleaf Honeysuckle | 2 G, full As shown |
| [Symbol] | 28 | Mahonia aquifolium / Tall Oregon grape | 2 G, full As shown |
| [Symbol] | 18 | Holidiscus discolor / Oceanspray | 1 G, full As shown |
| [Symbol] | 45 | Polystichum munium / Sword Fern | 1 G, full As shown |
| [Symbol] | 35 | Vaccinium ovatum / EG Huckleberry | 1 G, full As shown |
| [Symbol] | As Shown | Fragaria chiloensis / Beach strawberry | 4\", 18\" oc, tri space |
| [Symbol] | As Shown | Gaultheria shallon / Salal | 4\", 36\" oc, tri space |

NOTE: Mulch planting beds adjacent to residence with 3\" dark bark. Mulch bare soil surfaces (up to moderate slopes) with 3\" clean arborist wood chips.



DECIDUOUS TREE PLANTING



SHRUB / GROUNDCOVER PLANTING

PLANTING PLAN and DETAILS
 DB: 4-14-19
 Date: 1-14-19, 4-10-19

RUDOLF RESIDENCE
8253 W MERCER WAY
MERCER ISLAND, WA 98040

LANDSCAPE SPECIFICATIONS and STANDARDS

GENERAL STANDARDS

GUARANTEE AND REPLACEMENT

Contractor shall replace, at no additional cost to Owner, any turf or plant materials damaged as a result of improper maintenance attention or procedures. Replacement material shall be of the same size and variety as the dead or damaged material. Replace plant material within two weeks of identification of damage. Alternatives to size, variety and scheduling of replacement only by written permission of Owner.

Contractor is not responsible for losses, repair or replacement of damaged work or plant material resulting from theft, extreme weather conditions, vandalism, vehicular incidents (other than Contractor's vehicles) or the acts of others over whom they have no reasonable control.

Contractor shall inform Owner on a monthly basis of plant losses not covered by warranty and unrelated to the maintenance activities. Provide Owner with the cause of the plant loss, and provide recommendations for replacement along with pricing for replacement.

CONTRACTOR STAFF TRAINING AND EXPERIENCE

Contractor will provide staff able to perform work at the highest standards of horticultural excellence. Key staff shall have current knowledge of best management practices (BMP's) regarding: safety, hazardous materials spill response, plant health, pruning, integrated pest management, pesticide application, and irrigation maintenance. Owner reserves the right to demand the replacement of Contractor's staff who do not meet the owner's standards for safety, professionalism, or horticultural knowledge.

All work shall be performed under the direct on-site supervision of a qualified landscape professional with a minimum of five years combined horticultural education and experience. Preference will be given to an individual with at least a two year horticultural degree or Certified Landscape Technician (CLT), combined with two years work experience, or greater.

All irrigation maintenance and repairs shall be performed by, or under the direct supervision of, a Certified Irrigation Technician (CIT) or Certified Irrigation Auditor.

All pesticide applications shall be performed by a Contractor (or sub-contractor) licensed and insured as a Washington State Commercial Applicator. In addition, the staff doing the pesticide application shall be licensed as Commercial Operators. License numbers will be provided to the Owner prior to award of contract.

All pruning will be performed by, or under the direct on-site supervision of, staff with documented education and training in proper and naturalistic pruning techniques. Pruning of trees greater than six inches DBH will only be performed by an ISA certified Arborist.

OWNER/CONTRACTOR COMMUNICATION

Contractor to provide a supervisor to act on Owner's behalf regarding all matters pertaining to the performance of the Landscape Service. Contractor must notify Owner when the supervisor will be on vacation or other leave of absence and who will serve as a substitute. Provide Owner with an emergency contact list identifying the names, positions held, and phone numbers of key maintenance personnel. Provide mobile and pager numbers for the landscape maintenance manager and site supervisor. Attend meetings and site inspections of the grounds as requested by Owner.

LANDSCAPE SERVICE SCHEDULING

Establish a schedule and Gantt (or equal to) chart for regular maintenance activities by area and submit to Owner for review. Contractor to review proposed schedules with Owner at the regularly scheduled meetings and adjust as necessary to avoid conflicts.

SCOPE OF WORK

GENERAL PRACTICE GUIDELINES FOR MATERIALS AND EXECUTION

This document is intended as a benchmark of the Owner's minimum standards for maintenance, repair and improvements. However, the Owner respects the Contractor as a professional and as such, will take under consideration, any and all recommendations made by the Contractor.

Contractor shall furnish all labor, equipment, and materials necessary to complete the maintenance of turf and plantings, as specified herein. It is the intent of the Owner that this site be maintained in a resource-efficient, sustainable, and cost-effective manner.

Maintenance shall consist of fertilization, soil building, pruning, mowing, irrigation, IPM, weed/ insect/disease control, litter control and any other procedures consistent with good horticultural practice necessary to ensure normal, vigorous, and healthy growth of turf and landscape plantings.

When performing any work requiring subsurface excavation, Contractor shall take care to avoid damage to existing utilities and vegetation. Contractor shall contact Utility Locate

Contractor is encouraged to use non-polluting devices like rakes and brooms when feasible. Owner prefers that blowers and other power equipment are low-decibel, low-fossil fuel consumption, and low-emissions models.

Contractor is encouraged to develop cultural practices which incorporate on-site recycling of organic materials, such as leaves and grass clippings, and the use of recycled materials in its maintenance operations.

MATERIALS AND EXECUTION - INTEGRATED PEST MANAGEMENT AND PESTICIDE APPLICATIONS

INTEGRATED PEST MANAGEMENT (IPM)

Owner strongly encourages environmentally sensitive maintenance practices. The principles of integrated pest management (IPM) shall be employed. The intent is to limit any pesticide (including herbicide) applications through healthy landscape management practices.

IPM is an approach to pest control that utilizes regular monitoring to determine if and when treatments are needed and employs physical, mechanical, cultural, biological, and educational tactics to keep pest numbers low enough to prevent unacceptable damage or annoyance. Additional treatments, such as pesticide applications, are made only when and where monitoring has indicated that the pest will cause unacceptable economic, medical, or aesthetic damage. Treatments are not made according to a predetermined schedule. Treatments are chosen and timed to be most effective and least-hazardous to non-target organisms and the general environment. (adapted from Bio-Integral Resource Center)

Contractor shall consider pesticide applications only as a last resort and only after other methods of control are proven ineffective.

NOXIOUS WEED CONTROL

Noxious Weed Control is mandated by the King County HYPERLINK "http://dnr.metrokc.gov/wsf/lands/weeds/weed_control_board.htm" Noxious Weed Control Board HYPERLINK "http://dnr.metrokc.gov/wsf/lands/weeds/photos/2006Crew.JPG" based on the state weed control law, Chapter 17.10 RCW. Assistance and weed lists (Class A, B, C, Non-designate, and Weeds of concern) are available from the King County Noxious Weed Control Program at HYPERLINK "http://dnr.metrokc.gov/wsf/lands/weeds/" http://dnr.metrokc.gov/wsf/lands/weeds/, or 206-296-0290.

Contractor shall begin control of any King County Class A, B, or C Weeds upon identification. Control will follow non-chemical IPM control techniques outlined in King County's Best Management Practices, Alerts, and other documents posted on the Noxious Weed website. Pesticide applications can only be considered as a last resort when non-chemical methods have proved ineffective. Follow the specifications listed in section 3.3 Pesticide Applications, above.

Non-designate and Weeds of concern shall be controlled with ongoing IPM and healthy landscape management techniques.

MATERIALS AND EXECUTION - TREES, SHRUBS, VINES, GROUND COVER MAINTENANCE

TREES, SHRUBS, VINES AND GROUND COVER FERTILIZATION

Fertilize plant materials as indicated below.

Trees, shrubs, including rhododendrons, vines and groundcovers: Fertilize in March or April with slow-release, "bridge" or natural-organic fertilizer. Use 1-2-2 nutrient ratio (N-P-K), or similar, per manufacturer's recommended rates (not to exceed 5-10-10).

Perennials: Fertilize in March and again in June with same fertilizer used above per manufacturer's recommended rates.

Ornamental grasses: Fertilize in October with turf fertilizer approved in turf section above. Fertilize per manufacturer's recommended rates.

TREES, SHRUBS, VINES AND GROUND COVER WEED, PEST AND DISEASE CONTROL

Control of Weeds: Use cultural methods (mulch, proper pruning, proper irrigation) to encourage plant health and growth and discourage weeds. Keep planter beds and tree wells free of weeds and debris on a rotational basis, throughout the year by hand pulling or other mechanical means.

Ground covers are to be trimmed so they meet but do not grow over walkways or outside any of the planters.

Use of contact herbicides may be considered during the growing season to control noxious and other difficult to control perennial weeds. A maximum of two applications annually are allowed and included in the work. Use health and environmental hazard information to choose most effective and least hazardous product. Use single active ingredient products only, no tank mixes are allowed.

Use of pre-emergent herbicides is not permitted without prior written approval of Owner on an incident by incident basis. Pre-emergent herbicides may only be used on sites with at least two years of plant establishment. Areas considered for pre-emergent use are limited to tree wells and mulch-only beds without groundcover. Standard maintenance practices called for in this contract must be documented in areas where pre-emergent use is being considered before approval for use will be given (hand weeding, edgings, mulch application, proper pruning). Pre-emergent herbicides are not allowed in planted shrub beds or graveled pedestrian walkways.

Control of Insects and Diseases: Apply insecticide or fungicide to trees, shrubs and ground covers only when significant plant damage would result from not addressing the infestation. Calendar-based spraying is not allowed. Base pesticide application decisions on monitoring for damage, specific pest identification, and proper timing. Control of major disease and insect infestations for trees, shrubs and ground covers is not a part of the contract work and is considered an Additional Service. Regularly monitor all plant material and immediately notify Owner of any need for such control. Contractor is responsible for any damage to plant material incurred as a result of failure to immediately notify Owner of correctable disease and/or insect problems, and Contractor must replace any such damaged plant material at no additional cost to Owner.

TREES, SHRUBS, VINES AND GROUND COVER PRUNING

Pruning must only be performed by trained personnel in accordance with accepted horticultural practices. Prune to enhance the natural growth and shape of plant materials and intended function of the planting. Plantings are designed to grow together and to the edges of the beds to minimize weed infestation and maximize water conservation. Shearing is only permitted for formal hedges. Prune back branches as needed when interfering with walks, buildings, signage, fire control utilities, site lighting, security/safety visibility, site lighting, and vehicular circulation. Prune dead and broken branches quarterly and more frequently as required.

Street trees shall be pruned to maintain adherence to City or County sight distance requirements, to maintain visibility of street name signs, protect trees from vehicle damage, and maintain pedestrian safety.

Prune clean and just outside the branch collar in accordance with accepted horticultural practices. Pruning must only be performed by trained personnel. Replace plant materials that are disfigured or damaged due to improper pruning at no additional cost to Owner.

Periodically inspect and adjust tree staking and guying to prevent damage to the cambium layer. Remove guys and stakes as soon as trees are established and self-supporting (generally two years or less).

Prune trees as required and appropriate in compliance with ANSI A300 (Part 1), "Tree, Shrub, and Other Woody Plant Maintenance—Standard Practices (Pruning)."

The Additional Services of an ISA-certified arborist are required for pruning on any trees larger than six inches DBH (diameter at breast height as measured at four and one-half feet about the existing grade at the base of the tree) and any branches larger than four inches in diameter. This is considered an additional service.

MATERIALS AND EXECUTION - GENERAL AREA MAINTENANCE

LEAF AND BRANCH REMOVAL

Keep walks, patios, planting beds, roadway gutters and lawn areas free of leaves and branches on a weekly basis throughout the year.

Leaves shall be mulch mowed or left in planting areas throughout winter, spring and summer when leaf fall is not excessive and plant health is not adversely affected. As much as possible, leaves can be blown or raked under the shrubs or groundcover and into the wood chip mulch.

In autumn leaf removal shall occur at each visit as needed to prevent smothering of turf and groundcovers and excessive clumping when mulch mowing. Owner's preference is that whenever safety and plant health are not compromised that leaves remain on-site and are incorporated into mulch under plantings. Remove leaves from site only as needed to maintain a neat appearance and the health of the planting.

Excessive branch and debris cleanup from storm damage is not included in the contract work and is considered an additional service at Owner's request.

LANDSCAPE DEBRIS REMOVAL

Remove biodegradable landscape debris (turf clippings (limited to only those times when mulch mowing is not possible), leaves, branches, annuals, dead plant material, etc.) to yard refuse recycling facility. Acceptable sites include topsoil producing facilities and/or other facilities, which utilize yard waste for landscape purposes. No biodegradable material should be disposed of as garbage, except noxious weed debris.

Remove and properly dispose of moss from curbs, stairs and walkways.

LANDSCAPE TRASH REMOVAL

Remove all trash from landscaping beds, turf areas and parking lot to an approved trash container onsite on a weekly basis. For large amounts of trash, or if there is no approved trash container onsite, Contractor shall haul it away for appropriate disposal.

MULCH REPLACEMENT

Once annually Contractor shall replenish mulch to maintain a depth of no less than two inches (2") in all planting areas. All tree wells to be re-mulched annually. Established beds where plant foliage or groundcover completely covers the soil surface require no additional mulch. Keep mulch at least two to three inches (2 - 3") away from the crown of plants and trees.

Mulch shall be medium or fine Hog Fuel wood chips, clean arborists wood chips, shredded leaves, coffee hulls, compost, etc.

Red bark mulch or dust shall not be used.



francine m. day
LANDSCAPE ARCHITECT
206.890.7493
www.francinemday.com

PLANTING SPECIFICATIONS and
STANDARDS
DB:FWC
Date: 1-14-19

RUDOLF RESIDENCE
8253 W MERCER WAY
MERCER ISLAND, WA 98040

L 2.1

IRRIGATION SPECIFICATIONS

1.01 Summary

A. Provide a fully automatic bidder designed irrigation system installed by a qualified, licensed Contractor.

1.02 Quality Assurance

A. Perform work in strict accordance with the applicable plumbing, electrical, and health codes.
B. Obtain and pay for all permits and approvals required by the local jurisdictional authorities for the full operation of the system.
C. The work is subject to Landscape Architect tests and inspections as specified. Furnish written notice to the Landscape Architect 72 hours minimum prior to the required test or inspection.
D. Include a master valve on the incoming mainline at the backflow preventer location. Advise Landscape Architect if mainline pressure is insufficient to permit the additional pressure loss of a master valve.

1.03 System Coverage

A. Provide full coverage* in all planted areas. Exercise professional judgement in selection, location, height, and angle of sprinkler heads. Select and locate heads to avoid erosion, spraying building, and excessively washing walks. Shrub and lawn zones, sprinkler heads with varied precipitation rates, and differing sun exposures are to be valued separately. (*Full coverage is defined as head to head coverage with all plants and lawns receiving adequate water).

1.04 Guarantee

A. Guarantee system against defects of installation and material for a period of one (1) year after acceptance of sprinkler system. During guarantee period check, clear, and adjust sprinkler heads and otherwise insure adequate operation of system at maximum three (3) month intervals during the year.

1.05 Submittals

A. Plans - Two (2) sets of irrigation plans showing pipe and head layout, spray pattern, and equipment list.
B. Catalog Cuts - Manufacturer's descriptions of all proposed materials.
C. Make submittals to Landscape Architect for review prior to construction. Approval of plans and materials by Landscape Architect does not change the Contractor's responsibility for providing full coverage in planting areas.

1.06 Substitutions

A. Substitutions to the equipment specified will be permitted only with the express written approval of the Landscape Architect and when the substituted item is equal or better in quality than the item originally specified. The final determination for equal rests with the Landscape Architect.

1.07 As-Built Drawings

A. Maintain a current record of all pipes and equipment placement and record any variations from the original design.
B. Dimension pipe and equipment in variance to plans to two permanent structures sufficient for location after burial.
C. Submit a neat and legible as-built drawing of complete irrigation system upon completion of irrigation system and prior to releases of final payment. Provide reduced scale copy of plan, plastic encased, for attachment inside controller door.

2.00 Materials

2.01 Meter

A. Per local code.

2.02 Galvanized Pipe and Accessories

A. Pipe - Standard weight steel pipe, electrical resistance weld, ASTM Schedule 40.
B. Fittings - Malleable galvanized fittings.
C. Exterior Coatings - Primer and Matte Black Alkyd Oil Enamel for above grade pipe and fittings. Fields 125' bituminous coating for pipe and fittings below grade.

2.03 Plastic Pipe and Fittings

A. Pipe - Mainline: Schedule 40 PVC pipe, manufactured from a Type I, Grade I Polyvinyl Chloride (PVC) compound with a Cell Classification of 12454 per ASTM D1784. The pipe shall be manufactured in strict compliance to ASTM D1785 and D2665 (where applicable). Lateral lines: PVC 1120 or 1220, Class 200 conforming to U.S. Product Standard PS 22-70 and ASTM 2241, marked with manufacturer's name, class of pipe, NSF seal, and date and shift of manufacturing run. Provide uniform, smooth and glossy pipe with no evidence of interior or exterior extrusion marks. Pipe end pre-belled or straight to receive solvent-weld couplings.

2.04 Sprinkler Heads and Nozzles

A. Rainbird, Toro, Weathermatic, or approved equal.

2.05 Risers

A. Plastic bodies - 6" & 12" high pop-up Rainbird 1800 Series, or approved equal.
B. Brass bodies - Only if requested by Owner.

2.06 Automatic Valves

A. 24 volt, normally closed, provide with flow adjustment/shut-off handle and manual bleed cock.
B. Brass, or plastic. Weathermatic 8200CR or 11000CR, or approved equal.

2.07 Master Valve

A. Brass only.

2.08 Valve Boxes

A. General - Black or green plastic with bolt down lock-top capability.
B. Automatic Valves/Pressure Reducing Valve - Carson 1320B-13B or approved equal. Lid marked valve.
C. Backflow Preventer - Carson 1730C-12B or approved equal.
D. Shut-off Valve - Carson 10" diameter or approved equal.
E. Quick Coupling Valve - Carson 6" diameter or approved equal.

2.09 Automatic Controllers

A. 120 volt service with 24 volt output and UL approved, lockable door. Size for minimum of two additional future zones. 14 day capability and option of any 30 minute start of a 24 hour day. Time spread per station 0-60 minutes. Include Master Valve terminal or a pump start terminal for Master Valve operation.

2.10 Wire

A. UL approved UF and UL marked insulation jackets +/- #14 UF direct burial, solid copper, from controller to valves. ASTM B-3. Red or black for hot side, white for common ground, any third color for auxiliary wires. Multi-strand wire is acceptable if distance from controller to furthest valve is less than 500 feet. 3M DBY below grade wire splices. Screw-type and taped splices above grade per code.

2.11 Quick Coupling Valve For Air Blowout

A. Rainbird or approved equal with 1" MPT key.

2.12 Shut-Off Valve

A. Champion Angle Valve, Mueller, or approved equal. Stop and Waste valve where allowed by code. Provide 30" long key for valve operation.

2.13 Backflow Preventer

A. Per State of Washington approved list and as approved by local code. Febco #850 double check valve assembly or approved equal. Include resilient seat gate valve on each end of unit and 1/2" brass, screwed end, 150# WOG drive valve on downstream side.

2.14 Pressure Reducing Valve

A. Watts #223, Wilkens #500, or approved equal. Contractor has the option of utilizing a pressure reducing valve or automatic valves with pressure reducing capability.

2.15 Check Valves

A. KBI King-Check or approved equal. SAMS (seal-a-matic) may be used with an auto-drain and a gravel sump (minimum 1 CF) at the lowest end of each zone.

3.00 Installation

3.01 Examination

A. Prior to starting work carefully inspect the preparatory work of other trades and verify that such work is acceptable for the installation of this work. Report all unacceptable conditions to the Landscape Architect. Do not begin work until unacceptable conditions have been resolved. Beginning work constitutes Contractor acceptance of conditions.

3.02 Meter

A. Verify need with local water purveyor. Determine location, size, and type of pipe in the service from the main.

3.03 Trenching

A. Make trenches for irrigation system. Finish trenches free from rock, debris, or sharp articles. Provide depth to achieve minimum 16" cover for shrub beds, 12" for lawn areas, and 16" cover for mainline. Removed unused trench spoils from site.

3.04 Pipe

A. Cut PVC pipe ends at 90 degrees to the pipe length and clean all cutting prior to cementing. Wipe pipe ends clean with rag lightly wetted with PVC thinner. Apply cement with light coat on inside of fitting and

heavier coat on outside of pipe. Insert pipe into fitting and give a quarter turn to seat cement. Wipe excess cement from outside of pipe.

3.05 Sleeving

A. Class 200 PVC, 4" minimum diameter, Schedule 40 under asphalt or crushed rock paving. Verify with Landscape Architect if sleeves are to be installed by others.

3.06 Drip / Spray heads & Risers

A. Set shrub heads with flange flush or slightly below finish grade at a minimum distance of 4 inches from planter edge. Provide double swing joint or flexible swing pipe and spiral barbed fitting (connection at bottom of sprinkler body only) for connection to lateral.
B. Install lawn heads flush with finish to clear mowing equipment.
Provide three (3) Marlex street ells and one (1) PVC Schedule 80 nipple, or flex pipe connection to lateral (connection at bottom of sprinkler body only).

3.07 Nozzles

A. Select nozzles to provide full coverage without causing erosion problems, staining of siding, or drift

3.08 Electric Wire

A. Install wire in conduit where required by local code. Bury at sufficient depth to meet local code and in no case less than bottom side of parallel pipe. Bundle control wires and tape at 10' intervals. Tape bundles to adjacent pipe. Install wire in sleeves under all pavement. Splices shall occur at boxes only.

3.09 System Expansion

A. Provide a minimum of two (2) auxiliary wires for future valve locations. Run one unconnected spare control wire from the controller through each intermediate valve to terminate at the valve(s) at the ends of the main line. Loop at least 24" of wire at each of the intermediate valve boxes. Mark spare wires at the controllers and in boxes with permanent tag. Coil spare wire in plastic valve box.

3.10 Backfilling Trenches

A. Set pipe to ensure no puncture damage or future settlement. Lay mainline pipe with manufacturer's designations toward top of trench. Compact backfill to no less than 90% density at optimum moisture content. Backfill around sprinkler heads to restrict movement of heads by external force. Repair all trench settlement and finished surface damage due to settling during warranty period.

3.11 Automatic Valves

A. Install in specified valve box. Provide PVC nipple (minimum 4" long) on the inlet side and compression coupling or PVC union on the outlet side. Adjust flow with stem of valve to balance system. Mount valve boxes flush with finish grade unless otherwise indicated on drawings. Install immediately adjacent to walks or curbs (in shrub beds where possible). Provide 6" of pea gravel in bottom of valve box with 6" clear from gravel to underside of valve.

3.12 Master Valve

A. Size to match mainline size.

3.13 Backflow Prevention Unit

A. Install per local applicable code. Verify location with Landscape Architect. Otherwise Contractor is responsible for cost of relocation. Install galvanized ground joint unions on both inlet and outlet sides. Install Double Check Assembly in plastic box with minimum of 6" of gravel at bottom of box. Provide positive and verifiable drainage out of box. If required, install Reduced Pressure Backflow Preventer per code.

3.14 Pressure Reducing Valve

A. Install in plastic valve box with un-marked lid. Set so system does not fog with auto valves wide open.

3.15 Automatic Controller

A. Review exact location with Landscape Architect prior to installation. Connect to 120 volt service. Provide conduit/wire from controller location to valves. Label each station to clearly identify location of each valve.

3.16 Quick Couple Valve

A. Install in a 10" diameter valve box. Ensure valve can be operated from finish grade.

3.17 Shut Off Valve

A. Install in a 10" diameter valve box. If Stop and Waste Valve is allowed by code, provide 1 cubic foot gravel sump beneath valve.

3.18 Check Valves

A. Provide low head check valves on risers of lowest heads to prevent leakage.

3.19 Riser Painting

A. Paint all galvanized pipe and fittings with one coat minimum of specified material. Touch up after assembly.

3.20 System Flushing

A. Flush entire system prior to installation of sprinkler heads/nozzles. After capping all risers, remove cap nearest automatic valve, flush, and recap. Repeat this process until last head on circuit is flushed. If a pressure reducing valve is included in system, open wide for maximum pressure during flushing operation.

3.21 Pressure Test

A. Leave all system joints, connections, etc... exposed until after completion and acceptance of pressure test. Cap and open entire system to full main static pressure (pressure reducing valve wide open) for a period of two (2) hours. If static exceeds 80 psi, set PRV at 80 psifor testing laterals. Test mainlines at 100 psi. Visually check joints and connections for leaks. Repair all leaks, however minor. Contractor has the option of using AWWA pressure test (test with approved pressure pump at 100 psi with no more than 5 psi loss in 15 minutes). Deliver written record of test to Landscape Architect.

3.22 Performance Tests

A. Upon completion of system installation and after flushing and pressure tests are completed, operate system in presence of Landscape Architect. Correct all deficiencies until the system is approved.

3.23 Adjusting

A. Substitute or modify up to 5% of total nozzles to accommodate locations and density of plants and ensure full coverage.

3.24 System Familiarization

A. Upon completion of system installation, flushing, and pressure tests, and acceptance of system by Landscape Architect, operate the system in the presence of the Owner. Provide keys and/or other tools necessary to operate/drain/activate the system and spend adequate time with Owner to ensure operation/maintenance/winterization can continue after departure of Contractor. Submit written verification of compliance to Landscape Architect indicating date and persons involved. Contractor is liable for all damage or losses resulting from failure to comply with provisions of this paragraph.

3.25 System Protection

A. Deactivate and drain the system prior to the onset of freezing season and reactivate at the onset of spring season. Accomplish each at least once during the guarantee period. If installation is completed when system is not in use, winterize after testing. Certify by letter the dates of winterization/activation. Repair damage from failure to comply. Purge system with low pressure and low volume compressed air. Do not allow pipe or compressor to get hot to the touch.

3.26 Final Approval

A. Upon completion of all tests, final approval for system will be contingent upon Contractor providing signed and approved sprinkler/plumbing/health/electrical permits as may be applicable in the area, and as-built drawings of the complete system.

NOTE:

Verify irrigation system will provide sufficient water for plant viability without compromising slope stability.

Verify irrigation system is reviewed and abides by recommendations prepared by URBAN FORESTRY SERVICES, INC. (360) 428-5810



STATE OF WASHINGTON
LANDSCAPE ARCHITECT
FRANCINEMDAY
FRANCHISE #1 DAY
CERTIFICATE NO 711

francinemday
LANDSCAPE ARCHITECTURE
206.890.7493
WWW.francinemday.com

IRRIGATION SPECIFICATIONS
DB:RMD
Date: 1-14-19

RUDOLF RESIDENCE
8253 W MERCER WAY
MERCER ISLAND, WA 98040

L 2.2