

RUN YONG USA
MERCER ISLAND LOT LINE REVISION NO. SUB 16-004

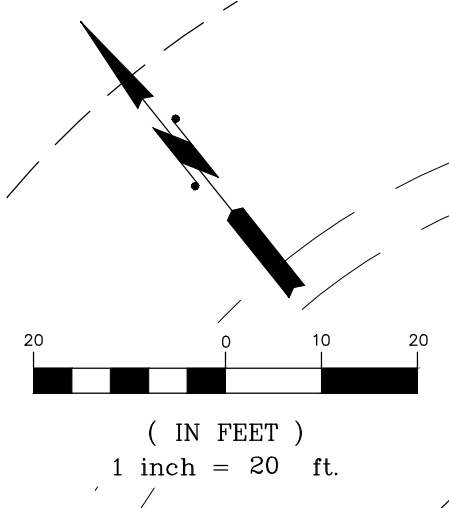
SURVEY LEGEND

=====	BUILDING LINE
EV	ELECTRICAL VAULT
⊗	FOUND SURVEY MONUMENT
---x-x---	FENCE LINE (CHAIN LINK)
---#-#---	FENCE LINE (WOOD)
●	FOUND IRON PIPE
○	FOUND REBAR
HH	HAND HOLE
HYD	FIRE HYDRANT
MH	MAINTENANCE HOLE
PM	POWER METER
TPED	TELEPHONE PEDISTAL
WM	WATER METER
W-X-X	WETLAND FLAG
M	WATER VALVE

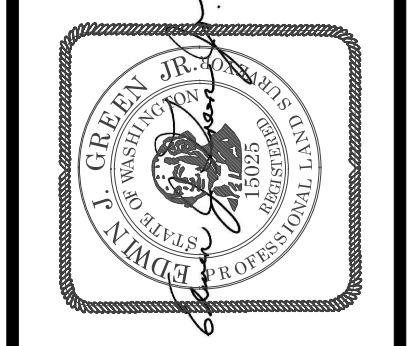
STEEP SLOPE/BUFFER DISCLAIMER
 THE LIMITS OF THE 40% AS SHOWN ON THIS DRAWING IS OUR INTERPRETATION WHICH MAY DIFFER FROM THAT OF THE REVIEWING AGENCY. THE LIMITS OF THE 40% SLOPES, AND ASSOCIATED SETBACKS NEEDS TO BE DETERMINED BY THE RESPECTIVE REVIEWING AGENCY, PRIOR TO ANY DESIGN AND OR CONSTRUCTION TAKING PLACE.

STEEP SLOPES LEGEND

Orange Shaded Area	30.00% TO 39.99%
Blue Shaded Area	40.00% AND GREATER

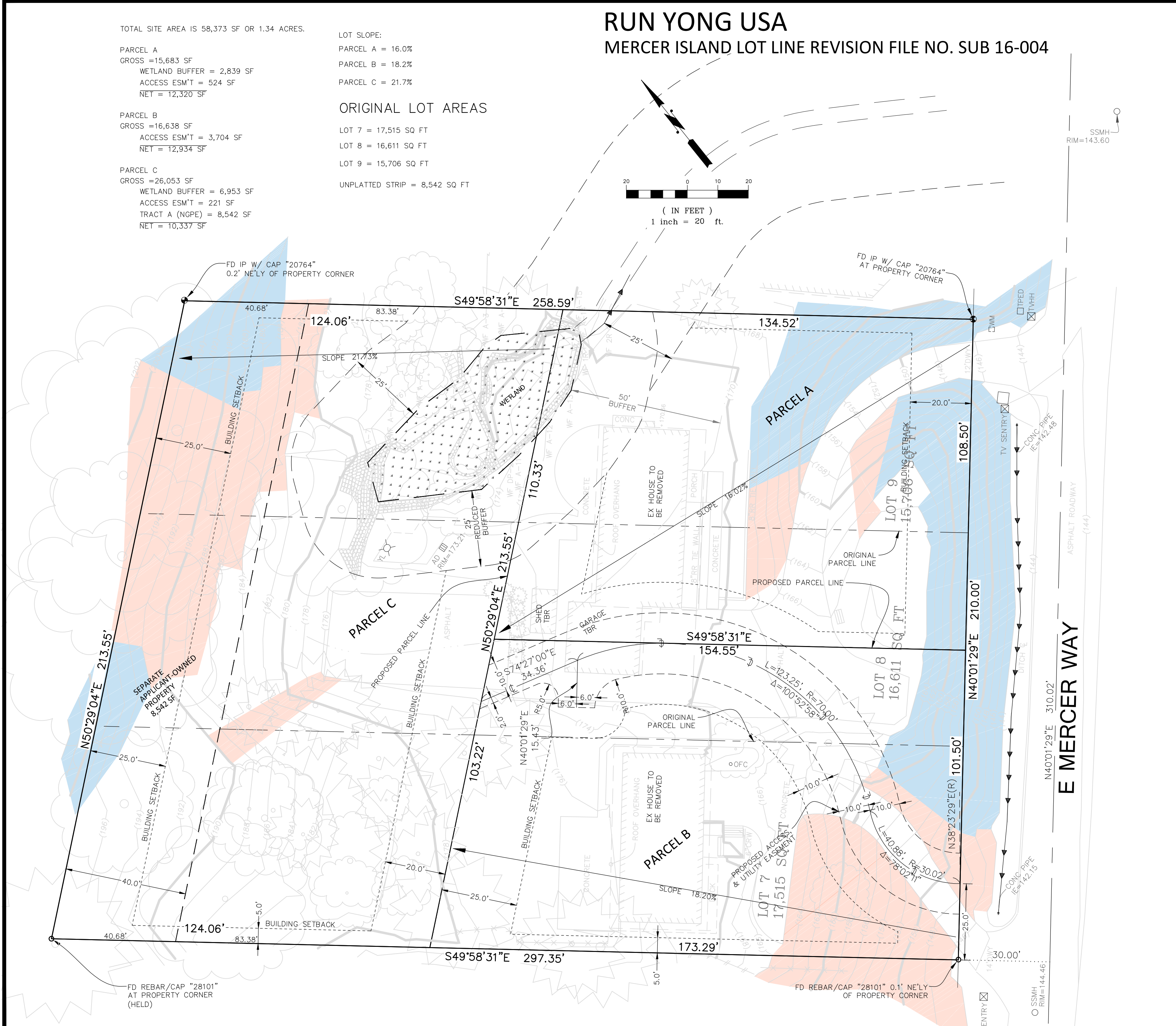


Terrane
 10801 Main Street, Suite 102, Bellevue, WA 98004
 phone 425.458.4488 support@terrane.net
www.terrane.net

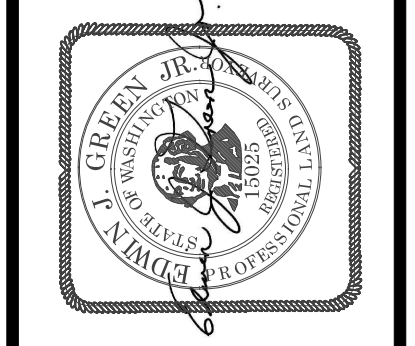


TOPOGRAPHIC SURVEY
 NW 1/4, NW 1/4, SEC 31, T 24N, R 5E, W.M.
RUN YONG USA
 8375 & 8383 E MERCER WAY
 MERCER ISLAND, WA

JOB NO.:	140845
DATE:	9/16/16
DRAFTED BY:	TLR
CHECKED BY:	EJG/SRM
SCALE:	1" = 20'
2 OF 4	



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LOT LAYOUT
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3 OF 4	

RUN YONG USA
MERCER ISLAND LOT LINE REVISION FILE NO. SUB 16-004

NEW LEGAL DESCRIPTIONS:

PARCEL A

LOT 9 AND THE NORTHEASTERLY 38.50 FEET OF LOT 8, BLOCK 3, AVALON PARK, ACCORDING TO THE PLAT RECORDED IN VOLUME 49 OF PLATS, AT PAGES 64 AND 65, IN KING COUNTY, WASHINGTON,
 EXCEPT THE NORTHWESTERLY 82.00 FEET THEREOF.

PARCEL B

LOTS 7 AND 8, BLOCK 3, AVALON PARK, ACCORDING TO THE PLAT RECORDED IN VOLUME 49 OF PLATS, AT PAGES 64 AND 65, IN KING COUNTY, WASHINGTON,
 EXCEPT THE NORTHEASTERLY 38.50 FEET OF SAID LOT 8;
 AND EXCEPT THE NORTHWESTERLY 82.00 FEET THEREOF.

PARCEL C

THE NORTHWESTERLY 82.00 FEET OF LOTS 7, 8 AND 9, BLOCK 3, AVALON PARK, ACCORDING TO THE PLAT RECORDED IN VOLUME 49 OF PLATS, AT PAGES 64 AND 65, IN KING COUNTY, WASHINGTON;
 TOGETHER WITH THE SOUTHEASTERLY 40 FEET OF THAT PORTION OF THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 31, TOWNSHIP 24 NORTH, RANGE 5 EAST, W.M. AND GOVERNMENT LOT 1 OF SAID SECTION LYING BETWEEN THE SOUTHWESTERLY LINE OF LOT 7 IN BLOCK 3 OF SAID PLAT EXTENDED NORTHWESTERLY AND THE NORTHEASTERLY LINE OF LOT 9 IN BLOCK 3 OF SAID PLAT EXTENDED NORTHWESTERLY.

ACCESS AND UTILITY EASEMENT

THAT PORTION OF LOTS 7 AND 8, BLOCK 3, AVALON PARK, ACCORDING TO THE PLAT RECORDED IN VOLUME 49 OF PLATS, AT PAGES 64 AND 65, IN KING COUNTY, WASHINGTON, DESCRIBED AS FOLLOWS:

A STRIP OF LAND, 20.00 FEET IN WIDTH, HAVING 10.00 FEET ON BOTH SIDES OF THE FOLLOWING DESCRIBED CENTERLINE:

COMMENCING AT THE MOST SOUTHERLY CORNER OF SAID LOT 7;
 THENCE NORTH 40°01'29" EAST, ALONG THE SOUTHEASTERLY LINE OF SAID LOT 7, A DISTANCE OF 25.00 FEET, TO THE BEGINNING OF A NON-TANGENT CURVE TO THE RIGHT FROM WHICH THE CENTER BEARS NORTH 38°23'29" EAST, 30.02 FEET DISTANT, AND THE POINT OF BEGINNING OF THIS CENTERLINE DESCRIPTION;
 THENCE NORTHWESTERLY, NORTHERLY AND NORTHEASTERLY, ALONG SAID CURVE, THROUGH A CENTRAL ANGLE OF 78°02'11" AND AN ARC DISTANCE OF 40.88 FEET, TO A POINT OF REVERSE CURVATURE HAVING A RADIUS OF 70.00 FEET;
 THENCE NORTHEASTERLY, NORTHERLY AND NORTHWESTERLY, ALONG SAID CURVE, THROUGH A CENTRAL ANGLE OF 100°52'58" AND AN ARC DISTANCE OF 123.25 FEET, TO A POINT HERINAFTER REFERRED TO AS POINT "A" AND THE TERMINUS OF THIS CENTERLINE DESCRIPTION;

TOGETHER WITH A STRIP OF LAND, 12.00 FEET IN WIDTH, HAVING 6.00 FEET ON BOTH SIDES OF THE FOLLOWING DESCRIBED CENTERLINE:

BEGINNING AT THE HEREINBEFORE REFERENCED POINT "A";
 THENCE SOUTH 40°01'29" WEST 15.43 FEET, TO THE TERMINUS OF THIS CENTERLINE DESCRIPTION;

TOGETHER WITH THAT PORTION OF SAID LOT 8, LYING NORTHERLY OF A FILLETED CURVE, CONCAVE TO THE SOUTH, HAVING A RADIUS OF 10.00 FEET BETWEEN THE SOUTHEASTERLY LINE OF SAID 12.00 FOOT STRIP AND THE SOUTHERLY LINE OF SAID 20.00 FOOT STRIP;

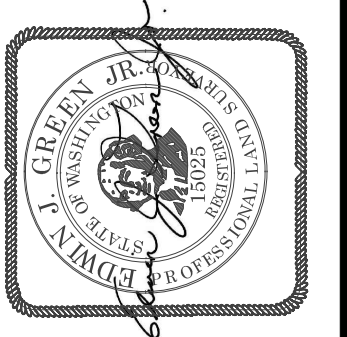
TOGETHER WITH A STRIP OF LAND, 12.00 FEET IN WIDTH, HAVING 10.00 FEET ON THE NORTH SIDE AND 2.00 FEET ON THE SOUTH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE;

BEGINNING AT THE HEREINBEFORE REFERENCED POINT "A";
 THENCE NORTH 74°27'00" WEST 34.36 FEET, TO THE TERMINUS OF THIS CENTERLINE DESCRIPTION, AND A POINT ON THE SOUTHEASTERLY LINE OF THE NORTHWESTERLY 82.00 FEET OF SAID LOTS 7 AND 8;

TOGETHER WITH THAT PORTION OF SAID LOT 8, LYING NORTHERLY OF A FILLETED CURVE, CONCAVE TO THE SOUTH, HAVING A RADIUS OF 5.00 FEET BETWEEN THE SOUTHWESTERLY LINE OF SAID 12.00 FOOT STRIP AND THE NORTHWESTERLY LINE OF SAID 12.00 FOOT STRIP;



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JOB NO.: 140845

DATE: 9/16/16

DRAFTED BY: TLR

CHECKED BY: EJG/SRM

SCALE: 1" = 20'

4 OF 4

SITE NOTES:

1. ALL IMMEDIATE AREAS AFFECTED BY NEW DEVELOPMENT SHALL BE GRADED AWAY FROM FOUNDATIONS + ADJACENT PROPERTIES @ 10% AS POSSIBLE, 2% MIN.

AREA CALCULATIONS:

LOT AREA:	26,053 FT ²
MAX ALLOWABLE BUILDING GROSS FLOOR AREA:	11,723.85 FT ² (45%)
PROPOSED BASEMENT AREA:	1,246 FT ²
PROPOSED FIRST FLOOR:	2,083 FT ²
PROPOSED GARAGE:	953 FT ²
PROPOSED SECOND FLOOR:	1,943 FT ²
TOTAL BUILDING GROSS FLOOR AREA:	6,225 FT ² (23.9%)

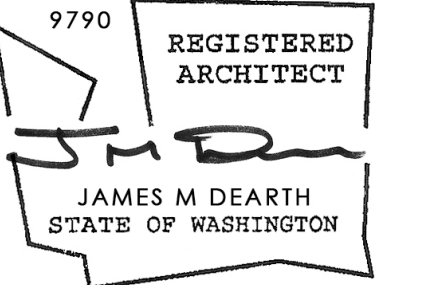
IMPERVIOUS SURFACE CALCULATIONS:

LOT AREA:	26,053 FT ²
ALLOWABLE LOT COVERAGE:	9,119 FT ² (35%) <small>(LOT SLOPE IS BETWEEN 15% AND 30%)</small>
PROPOSED RESIDENCE ROOF AREA:	2,748 FT ²
PROPOSED DRIVES + WALK AREA:	1,027 FT ²
EXISTING WETLAND AREA TO REMAIN:	1,948 FT ²
TOTAL IMPERVIOUS SURFACE UPON COMPLETION:	5,823 FT ² (22.35%)



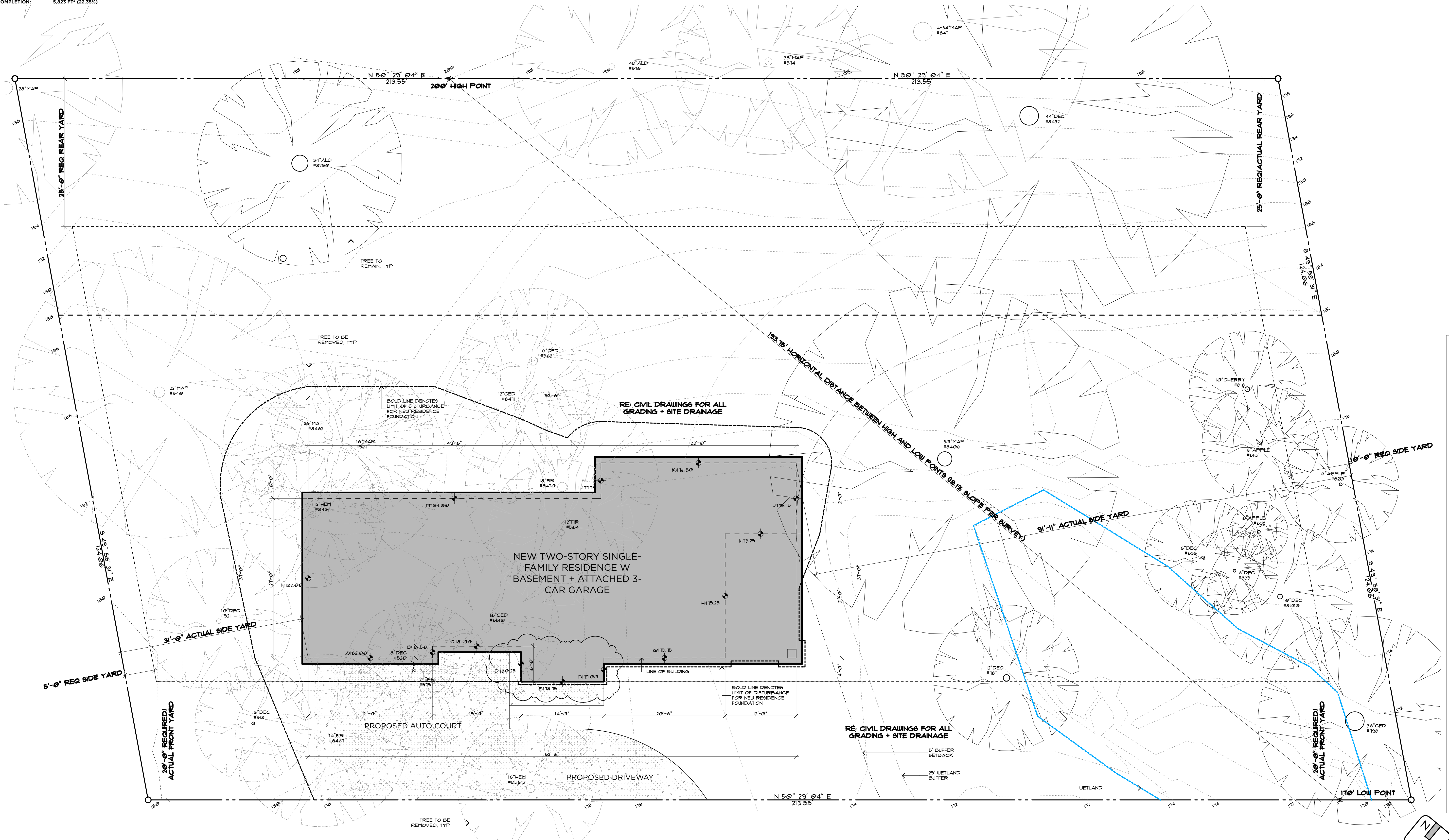
RIPPLE
DESIGN STUDIO

206.913.2333
4303 STONE WAY N
SEATTLE, WA 98103



EMERCER
PARCEL 3

8379 E. MERCER WAY MERCER ISLAND, WA



SITE PLAN

RELEASE
SCHEMATIC DESIGN
20 JUNE 2017

A1.1
EMERCER
PARCEL 3

SITE PLAN

SCALE: 1/8" = 1'-0"

TREE TABLE

BY AMERICAN FOREST MANAGEMENT

Tree Summary Table
For: 8383 E Mercer Way

American Forest Management, Inc.
Date: 8/29/14
Inspector: Wilkinson

Tree/Tag #	Species	DBH (inches)	Height (feet)	Drip-Line/Limits of Disturbance (feet)				Condition	Viability	Comments
				N	S	E	W			
8185	Douglas fir	26	85		17/12		15/12	good	viaible	driveway is 12' south of tree, good taper, was crown thinned in the past
101	deciduous ornamental	5.7	20	15/8			10/8	12/8	good	forks at 2', was topped
8538	western red cedar	19	55	13/12			18/12	fair-poor	borderline	was topped in the past, lots of new leaders, pink ribbon - 507
422	western red cedar	9.22	55	14/12			16/12	fair-poor	borderline	was topped in the past, lots of new leaders, pink ribbon - 422, co-dominant stem forks at 1'
508	western hemlock	22	75	22/15			23/15	13/15	fair	hemlock woolly adelgid
518	deciduous	5							good	viaible
8467	sitka spruce	17	75	6/10	16/10	20/10	4/10	fair	viaible	foliage dieback, co dominant stems fork at 40', minor bleeding on trunk
521	Washington hawthorne	9	52	12/6			12/6	fair	viaible	suppressed
519	Douglas fir	22	125		14/12	11/12	6/12	good	viaible	no concerns
520	European mountain ash	7	25	15/6	10/6	13/6		good	viaible	co-dominant forks at 10'
8509	western hemlock	20	90	15/12	12/12	14/12	8/12	fair	viaible	was crown thinned, poor form, spike knot
510	western white pine	22	95	12/12	18/12	15/10	12/12	fair	viaible	was pruned
8510	western red cedar	17	75	11/10	12/10	5/10	11/10	fair	viaible	ribbon - 841, 15 deg lean NW, lean self correcting
8464	western hemlock	12	88		10/8		2/8	fair	viaible	ribbon - 535, covered in ivy, crown thinned
561	big leaf maple	19	90			12/10		fair	viaible	ivy covering the trunk
8462	big leaf maple	18	90	5/10			18/10	fair	viaible	ribbon - 560, forks at 1', dead co-dominant stem
540	big leaf maple	22	90	25/15	25/15	17/15	10/15	good	viaible	some past branch failure, good form
328	deciduous	6.6	12	8	10	5	5	fair	viaible	
8280	red alder	25	95					poor	non-viaible	ribbon - 548
Neighboring Trees										
543	big leaf maple	26			20/15			good	viaible	good form, full crown, no concerns

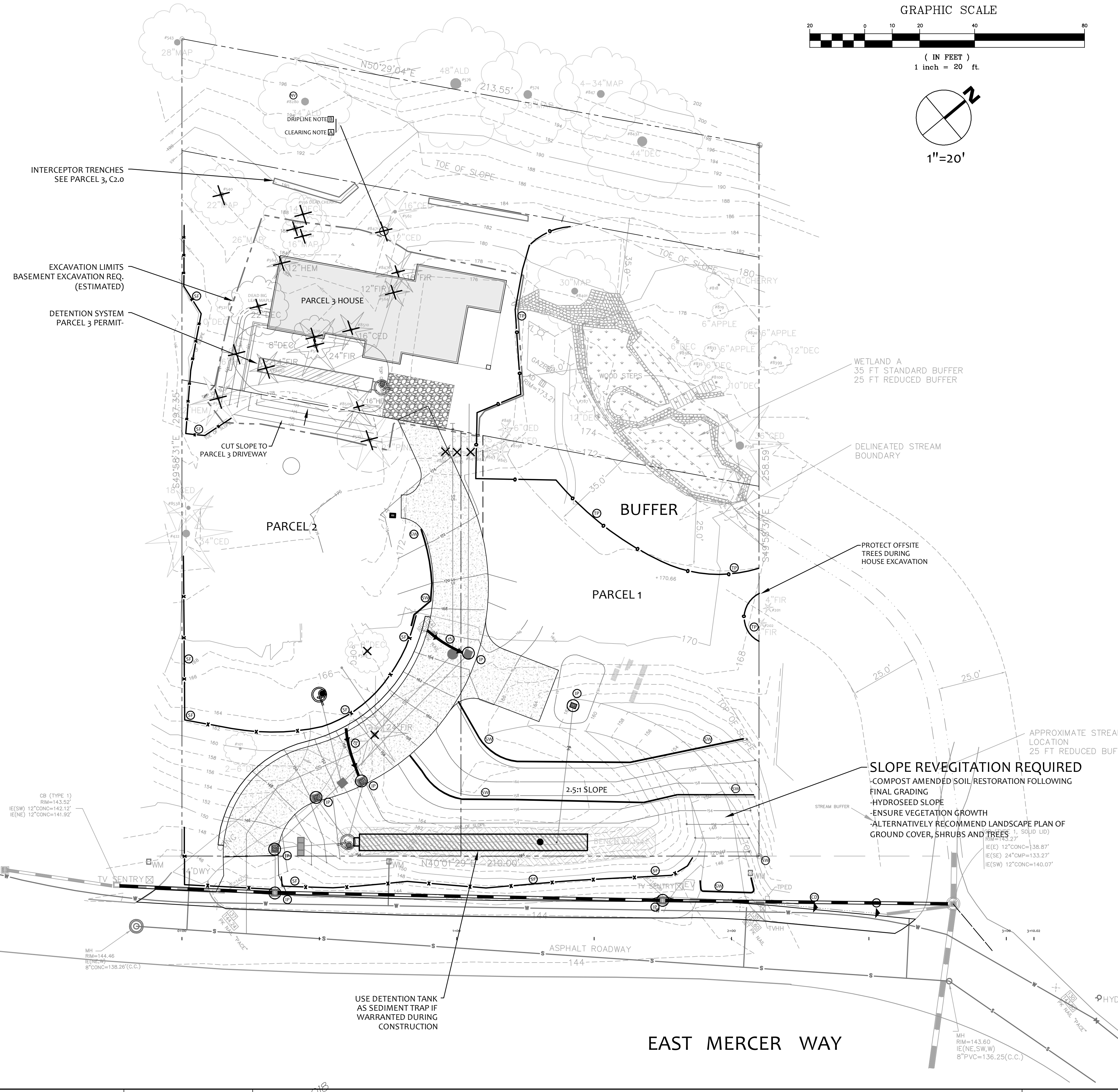
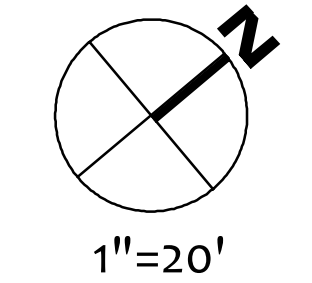
Tree/Tag #	Species	DBH (inches)	Height (feet)	Drip-Line/Limits of Disturbance (feet)				Condition	Viability	Comments
				N	S	E	W			
8471	western red cedar	11	50	10/8	10/8	12/8	9/8	good	viaible	ribbon - 542
8432	big leaf maple	38	100		38/20	35/20		fair	viaible	ribbon - 837, leans SE, some dead branches
839	Pyramidalis arborvitae	5	25					fair	viaible	
8497	Pyramidalis arborvitae	10	15					fair-poor	borderline	topped, co dominant stems, ribbon - 840
841	Pyramidalis arborvitae	6	28					fair	viaible	
842	Pyramidalis arborvitae	6	30					fair	viaible	
843	Pyramidalis arborvitae	6	30					fair	viaible	
8498	Pyramidalis arborvitae	7	30					fair	viaible	
845	Pyramidalis arborvitae	6	35					fair	viaible	ribbon - 844
846	Pyramidalis arborvitae	7	35					fair	viaible	
564	Douglas-fir	13	92		7/8	10/8	4/8	good	viaible	good taper
8470	Douglas-fir	18	95		12/8	12/8	6/8	good	viaible	ribbon - 563, good taper
562	western red cedar	18	65	11/10		15/12	5/10	good	viaible	no concerns
8401	big leaf maple	36	95	20/18	25/10	29/10	26/18	fair	viaible	ribbon - 645, some past branch failures, pond is adjacent and SE
787	cherry	13	18					poor	non viaible	growths
8100	deciduous	8	22	4/4	15/4	4/4		fair-poor	borderline	ribbon - 834, leans south, foliage discoloration
835	fruit	5.2	20	5/4	4/4	8/4		fair	viaible	
833	apple	6	18	5/4	2/4	4/4	4/4	fair	viaible	
819	fruit tree	6.3	15	4/4	10/4	5/4	5/4	fair	viaible	
818	cherry	9	22				10/8	fair	viaible	cherry gummosis, heavy pruning
820	fruit tree	5.2	12	2/4	8/4	4/4	6/4	fair	viaible	pruned
798	western red cedar	26	70	10/12	15/12			fair	viaible	growing on a stump, picture
Neighboring Trees										
847	big leaf maple	38, 22, 30, 25			39/20	31/20		fair	viaible	four co dominant stems, ivy covering the trunk, SE lean, rope swing
574	red alder	15, 32			38			fair-poor	borderline	past stem failure, included bark, pockets of decay, ivy on trunk
576	red alder	12, 9, 34						poor	non-viaible	severe foliage dieback, broken top
8399	cherry	3, 11, 4				8/5		fair	viaible	ribbon - 807, pruned
201	Douglas-fir	4				4/4		good	viaible	
202	Douglas-fir	4				8/4		good	viaible	

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

GRAPHIC SCALE



(IN FEET)
1 inch = 20 ft.

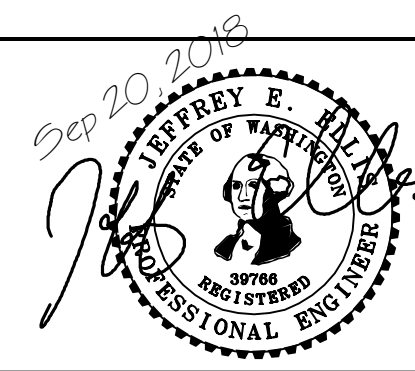


NO.	DATE	BY	REVISIONS

APPLICANT
New Horizon Real Estate
Development
8744 126th Ave NE
Kirkland, WA 98033



DATE: Sep 20, 2018
JOB# 1337
DRAFTED: CH DESIGN: DE
DIGITAL SIGNATURE



CIVIL ENGINEERING SOLUTIONS
102 NW CANAL STREET SEATTLE, WA 98107
PHONE: 206.930.0342 DUFFY@CESOLUTIONS.US

EROSION CONTROL PLAN
PARCEL 3
New Horizon Real Estate Development
8375 AND 8383 EAST MERCER WAY
MERCER ISLAND, WA 98040

DRAWING NO:
C1.0
APN 032110-0145
& 032110-0140

RECOMMENDED CONSTRUCTION SEQUENCE

A DETAILED CONSTRUCTION SEQUENCE IS NEEDED TO ENSURE THAT EROSION AND SEDIMENT CONTROL MEASURES ARE APPLIED AT THE APPROPRIATE TIMES. A RECOMMENDED CONSTRUCTION SEQUENCE IS PROVIDED BELOW:

1. HOLD AN ONSITE PRE-CONSTRUCTION MEETING.
2. POST SIGN WITH NAME AND PHONE NUMBER OF ESC SUPERVISOR (MAY BE CONSOLIDATED WITH THE REQUIRED NOTICE OF CONSTRUCTION SIGN).
3. FLAG OR FENCE CLEARING LIMITS.
4. INSTALL CATCH BASIN PROTECTION, IF REQUIRED.
5. GRADE AND INSTALL CONSTRUCTION ENTRANCE(S).
6. INSTALL PERIMETER PROTECTION (SILT FENCE, BRUSH BARRIER, ETC.).
7. CONSTRUCT SEDIMENT PONDS AND TRAPS.
8. GRADE AND STABILIZE CONSTRUCTION ROADS.
9. CONSTRUCT SURFACE WATER CONTROLS (INTERCEPTOR DIKES, PIPE SLOPE DRAINS, ETC.) SIMULTANEOUSLY WITH CLEARING AND GRADING FOR PROJECT DEVELOPMENT.
10. MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH CITY OF MERCER ISLAND STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
11. RELOCATE SURFACE WATER CONTROLS OR TESC MEASURES, OR INSTALL NEW MEASURES SO THAT AS SITE CONDITIONS CHANGE, THE TESC IS ALWAYS IN ACCORDANCE WITH CITY OF MERCER ISLAND TESC REQUIREMENTS.
12. COVER ALL AREAS THAT WILL BE UN-WORKED FOR MORE THAN SEVEN DAYS DURING THE DRY SEASON (MAY 1 TO SEPT 30) OR TWO DAYS DURING THE WET SEASON (OCT 1 TO APRIL 30) WITH STRAW, WOOD FIBER MULCH, COMPOST, PLASTIC SHEETING, OR EQUIVALENT.
13. STABILIZE ALL AREAS WITHIN SEVEN DAYS OF REACHING FINAL GRADE.
14. SEED, SOD, STABILIZE, OR COVER ANY AREAS TO REMAIN UNWORKED FOR MORE THAN 30 DAYS.
15. UPON COMPLETION OF THE PROJECT, STABILIZE ALL DISTURBED AREAS AND REMOVE BMPS IF APPROPRIATE.

DENUDED AREAS REQUIREMENTS

APRIL 1 TO SEPT 30
ALL DENUDED AREAS MUST BE STABILIZED WITHIN 7 DAYS OF CONSTRUCTION. PLEASE READ ALL CITY TESC NOTES ON SHEET C1.2.

OCT 1 TO MARCH 31
ALL DENUDED AREAS MUST BE STABILIZED WITHIN 2 DAYS OF GRADING. IF AN EROSION PROBLEM ALREADY EXISTS ON THE SITE, OTHER COVER PROTECTION AND EROSION CONTROL WILL BE REQUIRED.

EROSION CONTROL NOTES

D.8.2 STANDARD ESC PLAN NOTES
THE STANDARD ESC PLAN NOTES MUST BE INCLUDED ON ALL ESC PLANS. AT THE APPLICANT'S DISCRETION, NOTES THAT IN NO WAY APPLY TO THE PROJECT MAY BE OMITTED; HOWEVER, THE REMAINING NOTES MUST NOT BE RENUMBERED. FOR EXAMPLE, IF ESC NOTE #3 WERE OMITTED, THE REMAINING NOTES SHOULD BE NUMBERED 1, 2, 4, 5, 6, ETC.

1. APPROVAL OF THIS EROSION AND SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
2. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/ESC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED.
3. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED BY SURVEY TAPE OR FENCING, IF REQUIRED, PRIOR TO CONSTRUCTION (SWDM APPENDIX D). DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE CLEARING LIMITS SHALL BE PERMITTED. THE CLEARING LIMITS SHALL BE MAINTAINED BY THE APPLICANT/ESC SUPERVISOR FOR THE DURATION OF CONSTRUCTION.
4. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES, SUCH AS CONSTRUCTED WHEEL WASH SYSTEMS OR WASH PADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN AND TRACK OUT TO ROAD RIGHT OF WAY DOES NOT OCCUR FOR THE DURATION OF THE PROJECT.
5. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES IS MINIMIZED.
6. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G. ADDITIONAL COVER MEASURES, ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES, PERIMETER PROTECTION ETC.) AS DIRECTED BY CITY OF MERCER ISLAND.
7. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/ESC SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE KEPT OF WEEKLY REVIEWS OF THE ESC FACILITIES.
8. ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO CONSECUTIVE DAYS DURING THE WET SEASON OR SEVEN DAYS DURING THE DRY SEASON SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.).
9. ANY AREA NEEDING ESC MEASURES THAT DO NOT REQUIRE IMMEDIATE ATTENTION SHALL BE ADDRESSED WITHIN SEVEN (7) DAYS.
10. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH DURING THE DRY SEASON, BI-MONTHLY DURING THE WET SEASON, OR WITHIN TWENTY FOUR (24) HOURS FOLLOWING A STORM EVENT.
11. AT NO TIME SHALL MORE THAN ONE (1) FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.
12. ANY PERMANENT RETENTION/DETENTION FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY. IF THE FACILITY IS TO FUNCTION ULTIMATELY AS AN INFILTRATION SYSTEM, THE TEMPORARY FACILITY MUST BE ROUGH GRADED SO THAT THE BOTTOM AND SIDES ARE AT LEAST THREE FEET ABOVE THE FINAL GRADE OF THE PERMANENT FACILITY.
13. COVER MEASURES WILL BE APPLIED IN CONFORMANCE WITH APPENDIX D OF THE SURFACE WATER DESIGN MANUAL.
14. PRIOR TO THE BEGINNING OF THE WET SEASON (OCT. 1), ALL DISTURBED AREAS SHALL BE REVIEWED TO IDENTIFY WHICH ONES CAN BE SEEDED IN PREPARATION FOR THE WINTER RAINS. DISTURBED AREAS SHALL BE SEEDED WITHIN ONE WEEK OF THE BEGINNING OF THE WET SEASON.

CITY NOTES

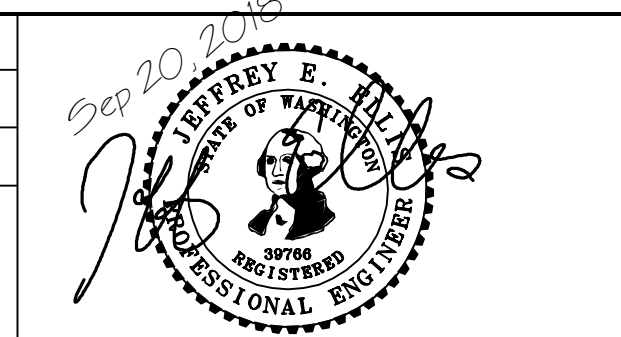
1. ANY CHANGES TO THE APPROVED PLANS REQUIRES CITY APPROVAL THROUGH A REVISION.
2. APPLICANT IS RESPONSIBLE FOR ANY DAMAGES TO UNDERGROUND UTILITIES CAUSED FROM THIS CONSTRUCTION.
3. CATCH BASIN FILTERS SHOULD BE PROVIDED FOR ALL STORM DRAIN CATCH BASINS/INLETS DOWNSLOPE AND WITHIN 500 FEET OF THE CONSTRUCTION AREA. CATCH BASIN FILTERS SHOULD BE DESIGNED BY THE MANUFACTURER FOR USE AT CONSTRUCTION SITES AND APPROVED BY THE CITY INSPECTOR. CATCH BASIN FILTERS SHOULD BE INSPECTED FREQUENTLY, ESPECIALLY AFTER STORM EVENTS. IF THE FILTER BECOMES CLOGGED, IT SHOULD BE CLEANED OR REPLACED.
4. CONTRACTORS SHALL VERIFY LOCATIONS AND DEPTHS OF UTILITIES.
5. AT LEAST 48 HOURS PRIOR TO CONSTRUCTION, CALL "ONE CALL" AT 1.800.424.5555
6. DO NOT BACKFILL WITH NATIVE MATERIAL ON PUBLIC RIGHT-OF-WAY. ALL MATERIAL MUST BE IMPORTED
7. EROSION CONTROL: ALL "LAND DISTURBING ACTIVITY" IS SUBJECT TO PROVISIONS OF MERCER ISLAND ORDINANCE 95C-118 "STORM WATER MANAGEMENT." SPECIFIC ITEMS TO BE FOLLOWED AT YOUR SITE:
8. PROTECT ADJACENT PROPERTIES FROM ANY INCREASED RUNOFF OR SEDIMENTATION DUE TO THE CONSTRUCTION PROJECT THROUGH THE USE OF APPROPRIATE "BEST MANAGEMENT PRACTICES" (BMP) EXAMPLES INCLUDE, BUT ARE NOT LIMITED TO, SEDIMENT TRAPS, SEDIMENT PONDS, FILTER FABRIC FENCES, VEGETATIVE BUFFER STRIPS OR BIOENGINEERED SWALES.
9. CONSTRUCTION ACCESS TO THE SITE SHOULD BE LIMITED TO ONE ROUTE. STABILIZE ENTRANCE WITH QUARRY SPALLS TO PREVENT SEDIMENT FROM LEAVING THE SITE OR ENTERING THE STORM DRAINS.
10. PREVENT SEDIMENT, CONSTRUCTION DEBRIS, PAINTS, SOLVENTS, ETC., OR OTHER TYPES OF POLLUTION FROM ENTERING PUBLIC STORM DRAINS. KEEP ALL POLLUTION ON YOUR SITE.
11. ALL EXPOSED SOILS SHALL REMAIN DENUDED FOR NO LONGER THAN SEVEN (7) DAYS AND SHALL BE STABILIZED WITH MULCH, HAY, OR THE APPROPRIATE GROUND COVER. ALL EXPOSED SOILS SHALL BE COVERED IMMEDIATELY DURING ANY RAIN EVENT.
12. INSTALLATION OF CONCRETE DRIVEWAYS, TREES, SHRUBS, IRRIGATION, BOULDERS, BERMS, WALLS, GATES, AND OTHER IMPROVEMENTS ARE NOT ALLOWED IN THE PUBLIC RIGHT-OF-WAY WITHOUT PRIOR APPROVAL, AND AN ENCROACHMENT AGREEMENT AND RIGHT OF WAY PERMIT FROM THE SENIOR DEVELOPMENT ENGINEER.
13. OWNER SHALL CONTROL DISCHARGE OF SURFACE DRAINAGE RUNOFF FROM EXISTING AND NEW IMPERVIOUS AREAS IN A RESPONSIBLE MANNER. CONSTRUCTION OF NEW GUTTERS AND DOWNSPOUTS, DRY WELLS, LEVEL SPREADERS OR DOWNSTREAM CONVEYANCE PIPE MAY BE NECESSARY TO MINIMIZE DRAINAGE IMPACT TO YOUR NEIGHBORS. CONSTRUCTION OF MINIMUM DRAINAGE IMPROVEMENTS SHOWN OR CALLED OUT ON THIS PLAN DOES NOT IMPLY RELIEF FROM CIVIL LIABILITY FOR YOUR DOWNSTREAM DRAINAGE.
14. POT HOLING THE PUBLIC UTILITIES IS REQUIRED PRIOR TO ANY GRADING ACTIVITIES LESS THAN 6" OVER THE PUBLIC MAINS (WATER, SEWER AND STORM SYSTEMS). IF THERE IS A CONFLICT, THE APPLICANT IS REQUIRED TO SUBMIT A REVISION FOR APPROVAL PRIOR TO ANY GRADING ACTIVITIES OVER THE PUBLIC MAINS.
15. REMEMBER: EROSION CONTROL IS YOUR FIRST INSPECTION.
16. ROOF DRAINS MUST BE CONNECTED TO THE STORM DRAIN SYSTEM AND INSPECTED BY THE PUBLIC WORKS DEPARTMENT PRIOR TO ANY BACKFILLING OF PIPE.
17. SILENT FENCE: CLEAN AND PROVIDE REGULAR MAINTENANCE OF THE SILT FENCE. THE FENCE IS TO REMAIN VERTICAL AND IS TO FUNCTION PROPERLY THROUGHOUT THE TERM OF THE PROJECT.
18. WORK IN PUBLIC RIGHT OF WAY REQUIRES A RIGHT-OF-WAY USE PERMIT.
19. REFER TO WATER SERVICE PERMIT FOR ACTUAL LOCATION OF NEW WATER METER AND SERVICE LINE DETERMINED BY MERCER ISLAND WATER DEPARTMENT.
20. THE TV INSPECTION OF THE EXISTING SIDE SEWER TO THE CITY SEWER MAIN IS REQUIRED. IF THE RESULT OF THE TV INSPECTION IS NOT IN SATISFACTORY CONDITION, AS DETERMINED BY THE CITY OF MERCER ISLAND INSPECTOR, THE REPLACEMENT OF THE EXISTING SIDE SEWER IS REQUIRED. ALTERNATELY, A PRESSURE TEST OF THE SIDE SEWER, FROM SEWER MAIN TO POINT OF CONNECTION, MAY BE SUBSTITUTED FOR THE VIDEO INSPECTION.
21. NEWLY INSTALLED SIDE SEWER REQUIRES A 4 P.S.I. AIR TEST OR PROVIDE 10' OF HYDROSTATIC HEAD TEST.
22. POT HOLING THE PUBLIC UTILITIES IS REQUIRED PRIOR TO ANY GRADING ACTIVITIES LESS THAN 6" OVER THE PUBLIC MAINS (WATER, SEWER AND STORM SYSTEMS). IF THERE IS A CONFLICT, THE APPLICANT IS REQUIRED TO SUBMIT A REVISION FOR APPROVAL PRIOR TO ANY GRADING ACTIVITIES OVER THE PUBLIC MAINS.
23. THE LIMITS AND EXTENDS OF THE PAVEMENT IN THE PUBLIC RIGHT OF WAY SHALL BE DETERMINED BY THE CITY ENGINEER PRIOR TO FINALIZE THE PROJECT.

NO.	DATE	BY	REVISIONS

APPLICANT
New Horizon Real Estate
Development
8744 126th Ave NE
Kirkland, WA 98033



DATE: Sep 20, 2018
JOB# 1337
DRAFTED: CH DESIGN: DE
DIGITAL SIGNATURE



CIVIL ENGINEERING SOLUTIONS
102 NW CANAL STREET SEATTLE, WA 98107
PHONE: 206.930.0342 DUFFY@CESOLUTIONS.US

TESCP NOTES
PARCEL 1-3
New Horizon Real Estate Development
8375 AND 8383 EAST MERCER WAY
MERCER ISLAND, WA 98040

DRAWING NO:
C1.2
APN 032110-0145
& 032110-0140

SANITARY SEWER IMPROVEMENTS

- ① -
- ② -6" SDR 35 PVC SANITARY SEWER(SS) @ MIN 1.0%.
- ③ -
- ④ -6" SEWER CLEANOUT
- ⑦ -
- ⑧ -

WATER IMPROVEMENTS

- ⑩ -
- ⑪ -WATER SERVICE FROM METER TO HOUSE. CONFIRM DIAMETER WITH FIRE SPRINKLER DESIGNER. USE 250 PSI PRIVATE HDPE WATER (ASTM D2239) FROM METER TO HOUSE. RECOMMENDED DEPTH=36". COORDINATE HOUSE ENTRY WITH BUILDER/OWNER.
- ⑫ -
- ⑭

STORM DRAIN

- ⑳ 4" STORM DRAIN (3034 PVC) @ MIN 1% GRADE.
- ㉑ 4" FOUNDATION DRAIN (3034 PVC) @ MIN 1% GRADE.
- ㉒ 6" STORM DRAIN (3034 PVC) @ MIN 1% GRADE.
- ㉓ -
- ㉔ -
- ㉕ -
- ㉖ -

STORM DRAIN STRUCTURES

- ㉚ -
- ㉛ -
- ㉜ -TYPE 1 CB WITH SOLID LID
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- ㉞ -
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- ① 54" ID TYPE 2 MH CONTROL STRUCTURE WITH SOLID LID. SEE ALL DETAILS AND PROFILE C4.0.
- ② -
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- ④ -
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- ⑮ -
- ⑯ -
- ⑰ -
- ⑱ -
- ⑲ DETENTION PIPE: ALUMINIZED CMP @ 0.5% GRADE. SEE PLAN FOR SIZE AND CONFIGURATION. SEE PROFILE, NOTES, AND DETAILS ON C4.0.

A CLEARING LIMIT NOTE

ALL SELECTIVE CLEARING, TRENCHING AND OTHER WORK WITHIN THE DRIPLINES OF SIGNIFICANT TREES SHALL BE BY LOW IMPACT/HAND METHODS ONLY AND WORK SHALL BE ADJUSTED AS POSSIBLE TO MINIMIZE ANY DISTURBANCE TO THE SIGNIFICANT AND RETAINED TREES AND PROTECTED UNDERSTORY. CONSTRUCTION MATERIALS AND VEHICLES SHALL NOT BE STORED OUTSIDE THE CLEARING LIMITS.

B TREE DRIPLINE NOTE

WORK WITHIN THE DRIPLINE OF TREES TO BE SAVED MUST BE UNDER THE DIRECTION OF A CERTIFIED ARBORIST (TYP.) SEE ALSO CLEARING LIMIT NOTE ON THIS SHEET.

MISC IMPROVEMENTS

- ⑰ -LANDSCAPE BLOCK WALLS (GRAVITY). MAX HEIGHT=42" TYPICAL.

SURVEYOR

TOPOGRAPHIC SURVEY BY:
TERRAINE LAND SURVEYING
(FORMERLY GEODIMENSIONS)
10801 MAIN STREET, SUITE 102
BELLEVUE, WA 98004
PHONE 425-458-4488
WWW.TERRAINE.NET

INTERCEPTOR TRENCHES

- ㉟ 8' DEEP x 24" MIN WIDTH INTERCEPTOR TRENCH
-BACKFILL WITH 3 / 8" MINUS PEA GRAVEL OR CRUSHED ROCK TO 12" BELOW FINISHED GRADE
-W/6" PERFORATED PIPE PER PAGE 11 OF PANGEO GEOTECHNICAL STUDY.

FOLLOWING IS DIRECTLY SOURCED FROM GEOTECHNICAL REPORT
We recommend that an interceptor trench drain be installed along the approximately west property line to intercept the potential shallow groundwater seepage to improve the long-term performance of the site stability, foundations, and pavements (see Figure 2 for approximately locations).
The subsurface trench should be 8 feet deep and should consist of 6-inch diameter perforated drainpipes placed near the bottom of the trench. A 4-inch layer of pea-gravel or clean crushed rock should be placed beneath the 6-inch drainpipes. Water collected in the drainpipes should be tight-lined and discharge to an appropriate outlet at East Mercer Way. The trench should be backfilled with clean, free-draining 3/8 inch minus pea gravel or crushed rock to 12 inches below the finish grade. The final 12 inches of backfill should consist of impervious material compacted to a minimum of 90 percent of its maximum dry density.

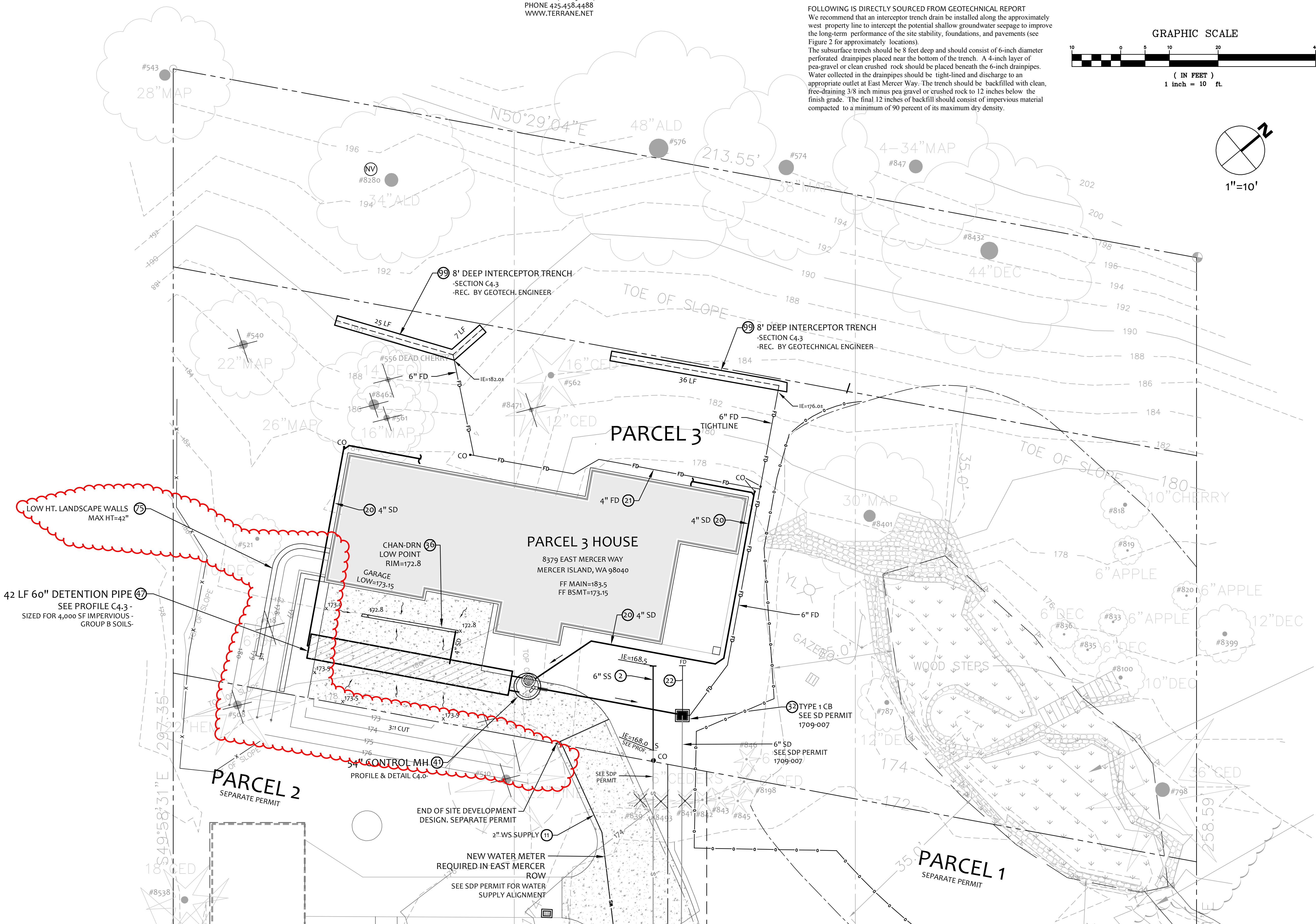
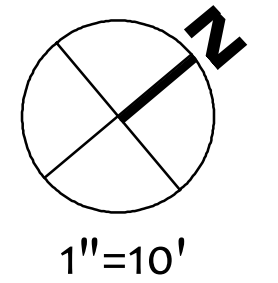
VERTICAL DATUM

VERTICAL DATUM:
NAVD88 PER GPS

GRAPHIC SCALE



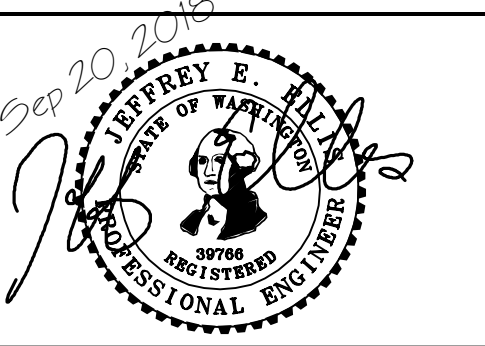
(IN FEET)
1 inch = 10 ft.



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CIVIL ENGINEERING SOLUTIONS
102 NW CANAL STREET SEATTLE, WA 98107
PHONE: 206.930.0342 DUFFY@CESOLUTIONS.US

DRAINAGE PLAN
PARCEL 3
New Horizon Real Estate Development
8375 AND 8383 EAST MERCER WAY
MERCER ISLAND, WA 98040

DRAWING NO:
C2.3
APN 032110-0145 & 032110-0140

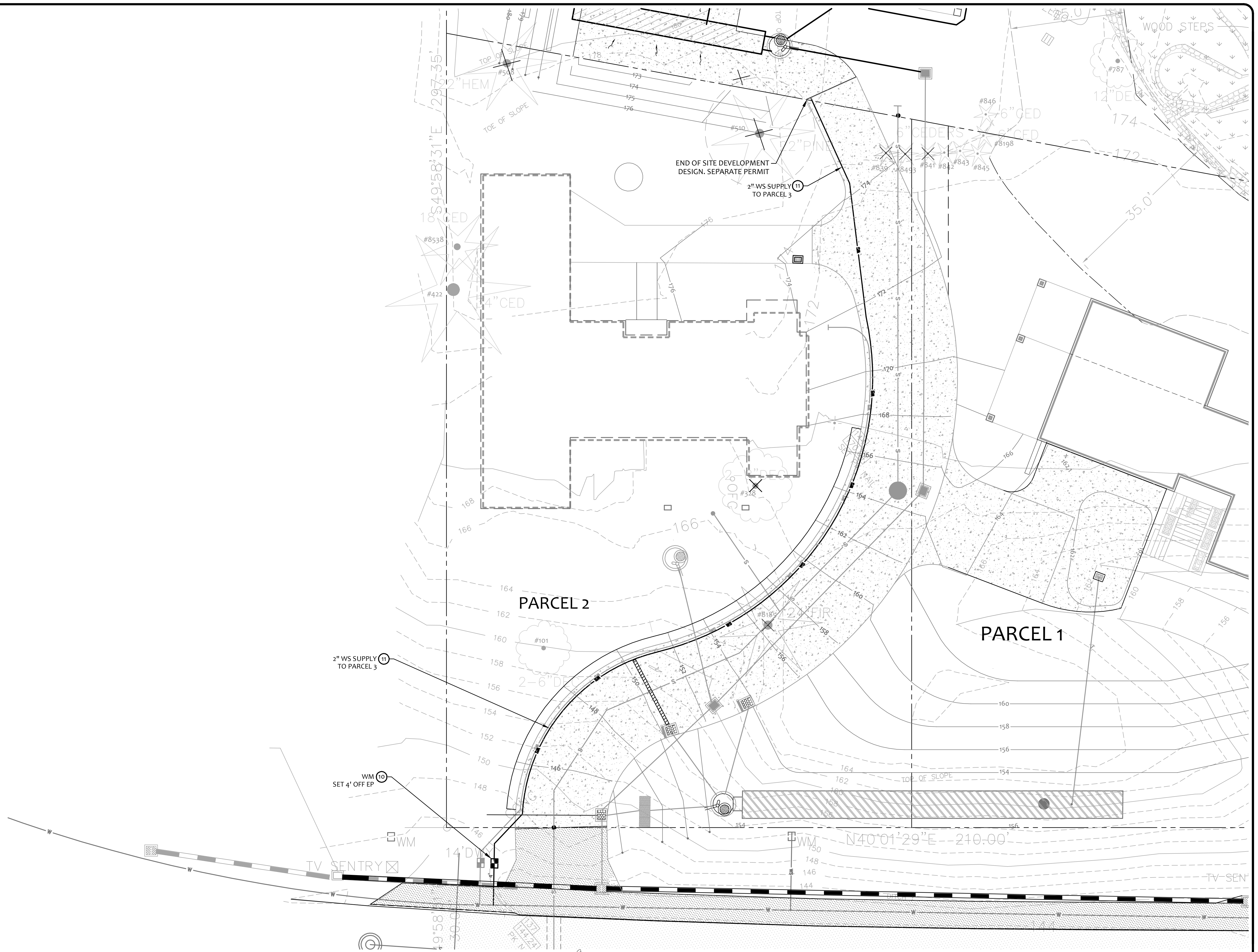
PARCEL 3 WATER IMPROVEMENTS

(10) NEW SF RESIDENTIAL WATER SERVICE & METER PIT. CONFIRM REQUIRED SIZE WITH BUILDING PERMIT REVIEW. INSTALL PER MERCER ISLAND DETAIL W-13, W-14, OR W-14A DEPENDING ON SIZE REQUIREMENT.

(11) WATER SERVICE FROM METER TO HOUSE. CONFIRM DIAMETER WITH FIRE SPRINKLER DESIGNER. USE 250 PSI PRIVATE HDPE WATER (ASTM D2239) FROM METER TO HOUSE. RECOMMENDED DEPTH=36". COORDINATE HOUSE ENTRY WITH BUILDER/OWNER.

(12) -

(14)



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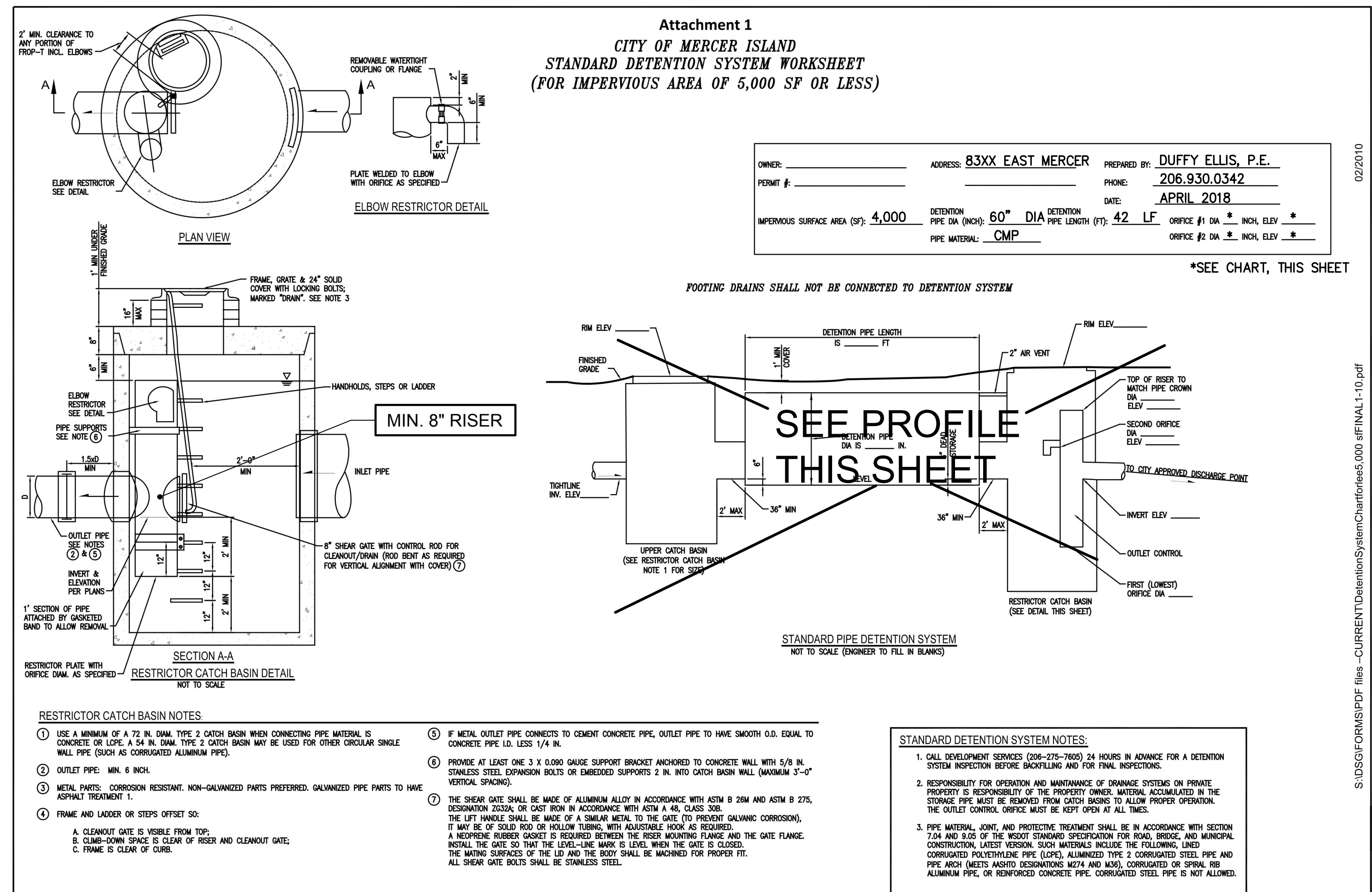


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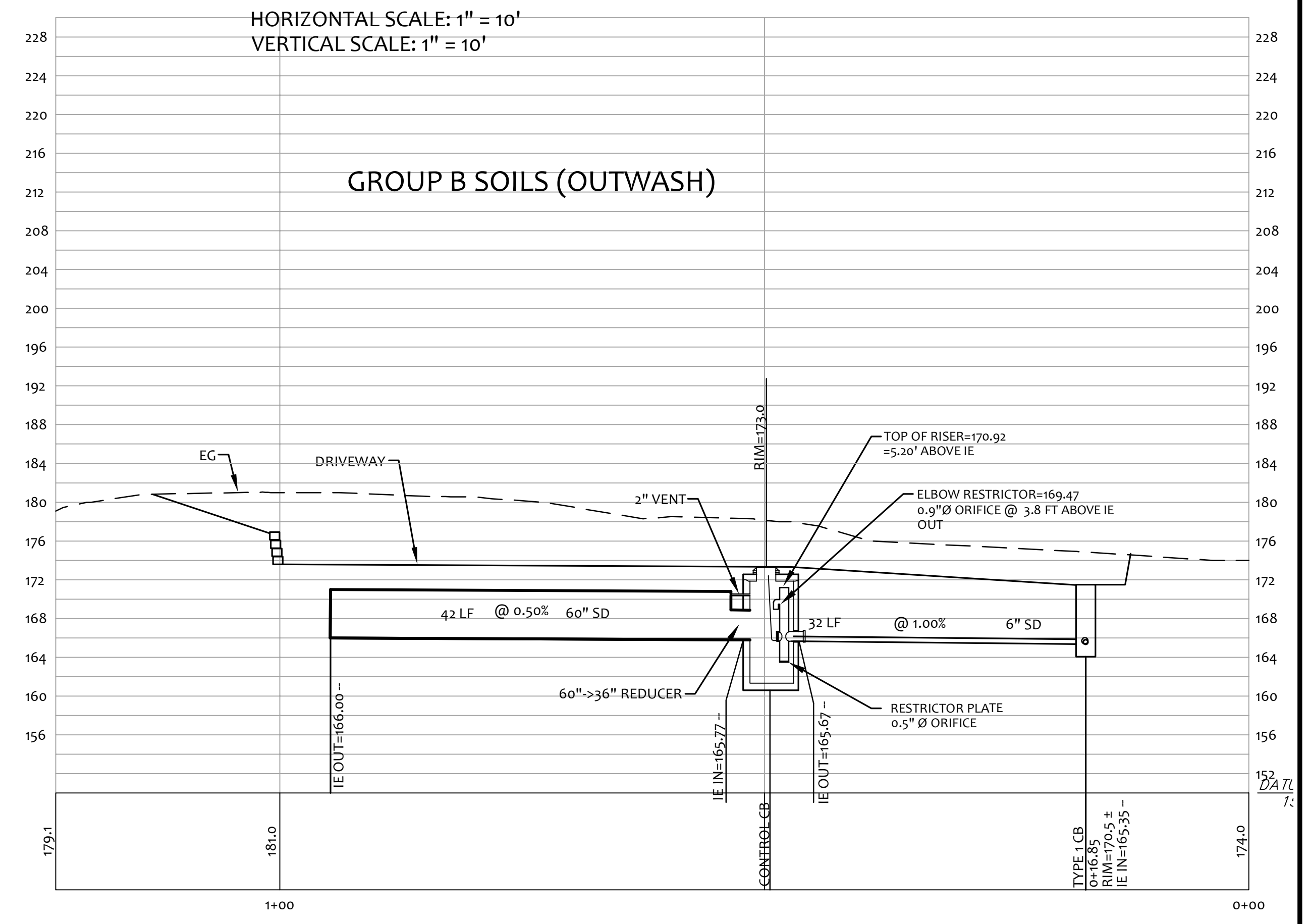
WATER SERVICE
PARCEL 3
 New Horizon Real Estate Development
 8375 AND 8383 EAST MERCER WAY
 MERCER ISLAND, WA 98040

DRAWING NO:
C2.4
 APN 032110-0145
 & 032110-0140

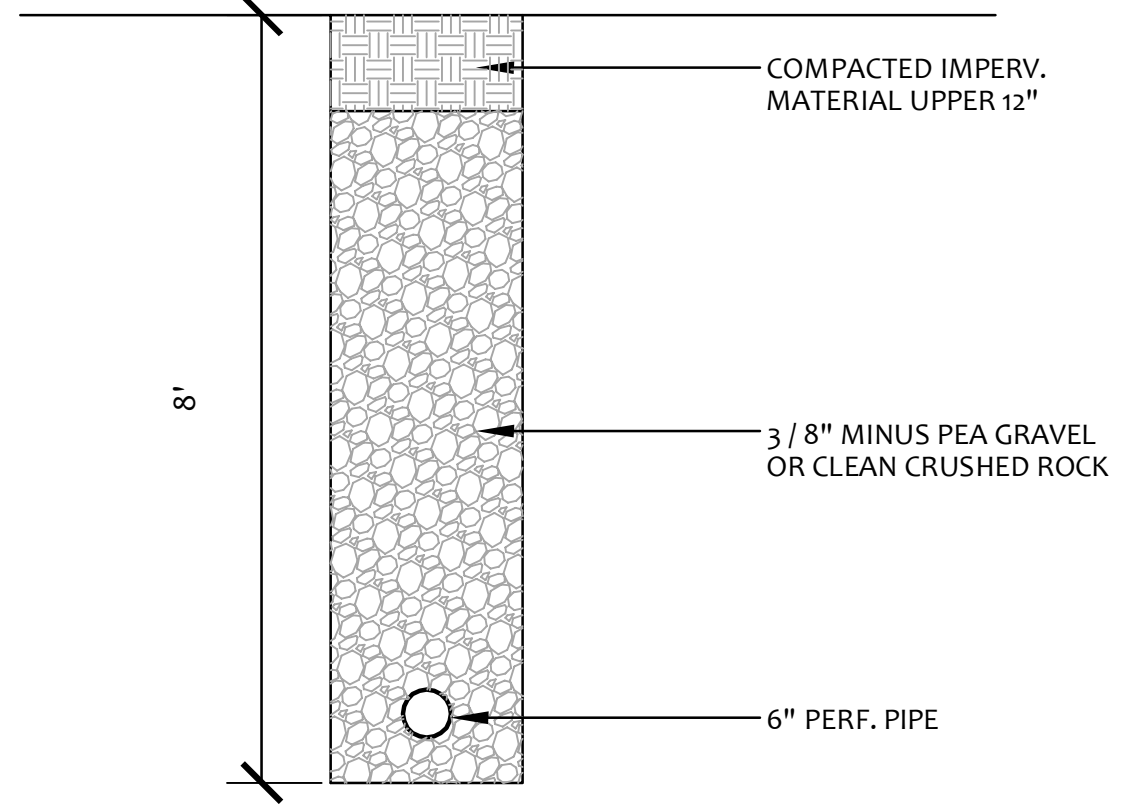
MERCER ISLAND DETENTION DETAIL



DETENTION PROFILE PARCEL 3



TYP. INTERCEPTOR TRENCH



PARCEL 3 IMPERVIOUS TABLE

Impervious Area Spreadsheet	
Parcel 3, East Mercer	
Gross Site area	26,053 sf
	0.598 acres
Existing Impervious Area	
Ex House	- sf
Ex driveway, on-site	- sf
total existing =	0 sf
Proposed Impervious Area (on-site)	
Roof	2,748 sf
Exposed, on-site driveway	1,127 sf
total on-site proposed =	3,875 sf
total on-site new + replaced =	3,875 sf
Proposed Impervious Area (off-site)	
New Driveway	- sf
total off-site proposed =	0 sf
total proposed =	3,875
	Size detention, use Group B Soils

GROUP B SOILS (OUTWASH) MERCER ISLAND DETENTION "TABLE 2"

ON-SITE DETENTION DESIGN FOR PROJECTS BETWEEN 500 SF AND 9,500 SF NEW PLUS REPLACED IMPERVIOUS SURFACE AREA

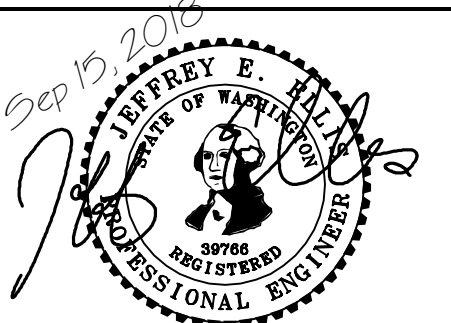
New and Replaced Impervious Surface Area (sf)	Detention Pipe Diameter (in)	Detention Pipe Length (ft)		Lowest Orifice Diameter (in) ⁽¹⁾		Distance from Outlet Invert to Second Orifice (ft)		Second Orifice Diameter (in)	
		B soils	C soils	B soils	C soils	B soils	C soils	B soils	C soils
500 to 1,000 sf	36"	30	22	0.5	0.5	2.2	2.0	0.5	0.8
	48"	18	11	0.5	0.5	3.3	3.2	0.9	0.8
	60"	11	7	0.5	0.5	4.2	3.4	0.5	0.6
1,001 to 2,000 sf	36"	66	43	0.5	0.5	2.2	2.3	0.9	1.4
	48"	34	23	0.5	0.5	3.2	3.3	0.9	1.2
	60"	22	14	0.5	0.5	4.3	3.6	0.9	0.9
2,001 to 3,000 sf	36"	90	66	0.5	0.5	2.2	2.4	0.9	1.9
	48"	48	36	0.5	0.5	3.1	2.8	0.9	1.5
	60"	30	20	0.5	0.5	4.2	3.7	0.9	1.1
3,001 to 4,000 sf	36"	120	78	0.5	0.5	2.4	2.2	1.4	1.6
	48"	62	42	0.5	0.5	2.8	2.9	0.8	1.3
	60"	42	26	0.5	0.5	3.8	3.9	0.9	1.3
4,001 to 5,000 sf	36"	134	91	0.5	0.5	2.8	2.2	1.7	1.5
	48"	73	49	0.5	0.5	3.6	2.9	1.6	1.5
	60"	46	31	0.5	0.5	4.6	3.5	1.6	1.3
5,001 to 6,000 sf	36"	162	109	0.5	0.5	2.7	2.2	1.8	1.6
	48"	90	59	0.5	0.5	3.5	2.9	1.7	1.5
	60"	54	37	0.5	0.5	4.6	3.6	1.6	1.4
6,001 to 7,000 sf	36"	192	128	0.5	0.5	2.7	2.2	1.9	1.8
	48"	102	68	0.5	0.5	3.7	2.9	1.9	1.6
	60"	64	43	0.5	0.5	4.6	3.6	1.8	1.5
7,001 to 8,000 sf	36"	216	146	0.5	0.5	2.8	2.2	2.0	1.9
	48"	119	79	0.5	0.5	3.8	2.9	2.2	1.7
	60"	73	49	0.5	0.5	4.5	3.6	2.0	1.6
8,001 to 8,500 sf ⁽²⁾	36"	228	155	0.5	0.5	2.8	2.2	2.1	1.9
	48"	124	84	0.5	0.5	3.7	2.9	1.9	1.8
	60"	77	53	0.5	0.5	4.6	3.6	2.0	1.6
8,501 to 9,000 sf	36"	NA ⁽¹⁾	164	0.5	0.5	NA ⁽¹⁾	2.2	NA ⁽¹⁾	1.9
	48"	NA ⁽¹⁾	89	0.5	0.5	NA ⁽¹⁾	2.9	NA ⁽¹⁾	1.9
	60"	NA ⁽¹⁾	55	0.5	0.5	NA ⁽¹⁾	3.6	NA ⁽¹⁾	1.7
9,001 to 9,500 sf ⁽²⁾	36"	NA ⁽¹⁾	174	0.5	0.5	NA ⁽¹⁾	2.2	NA ⁽¹⁾	2.1
	48"	NA ⁽¹⁾	94	0.5	0.5	NA ⁽¹⁾	2.9	NA ⁽¹⁾	2.0
	60"	NA ⁽¹⁾	58	0.5	0.5	NA ⁽¹⁾	3.7	NA ⁽¹⁾	1.7

NO.	DATE	BY	REVISIONS

APPLICANT
New Horizon Real Estate
Development
8744 126th Ave NE
Kirkland, WA 98033



DATE: Sep 15, 2018
JOB#: 1337
DRAFTED: DE DESIGN: DE
DIGITAL SIGNATURE



CIVIL ENGINEERING SOLUTIONS
102 NW CANAL STREET SEATTLE, WA 98107
PHONE: 206.930.0342 DUFFY@CESOLUTIONS.US

DETENTION PROFILE AND DETAIL
PARCEL 3
New Horizon Real Estate Development
8375 AND 8383 EAST MERCER WAY
MERCER ISLAND, WA 98040

DRAWING NO:
C4.3
APN 032110-0145
& 032110-0140

FLOOR PLAN NOTES:

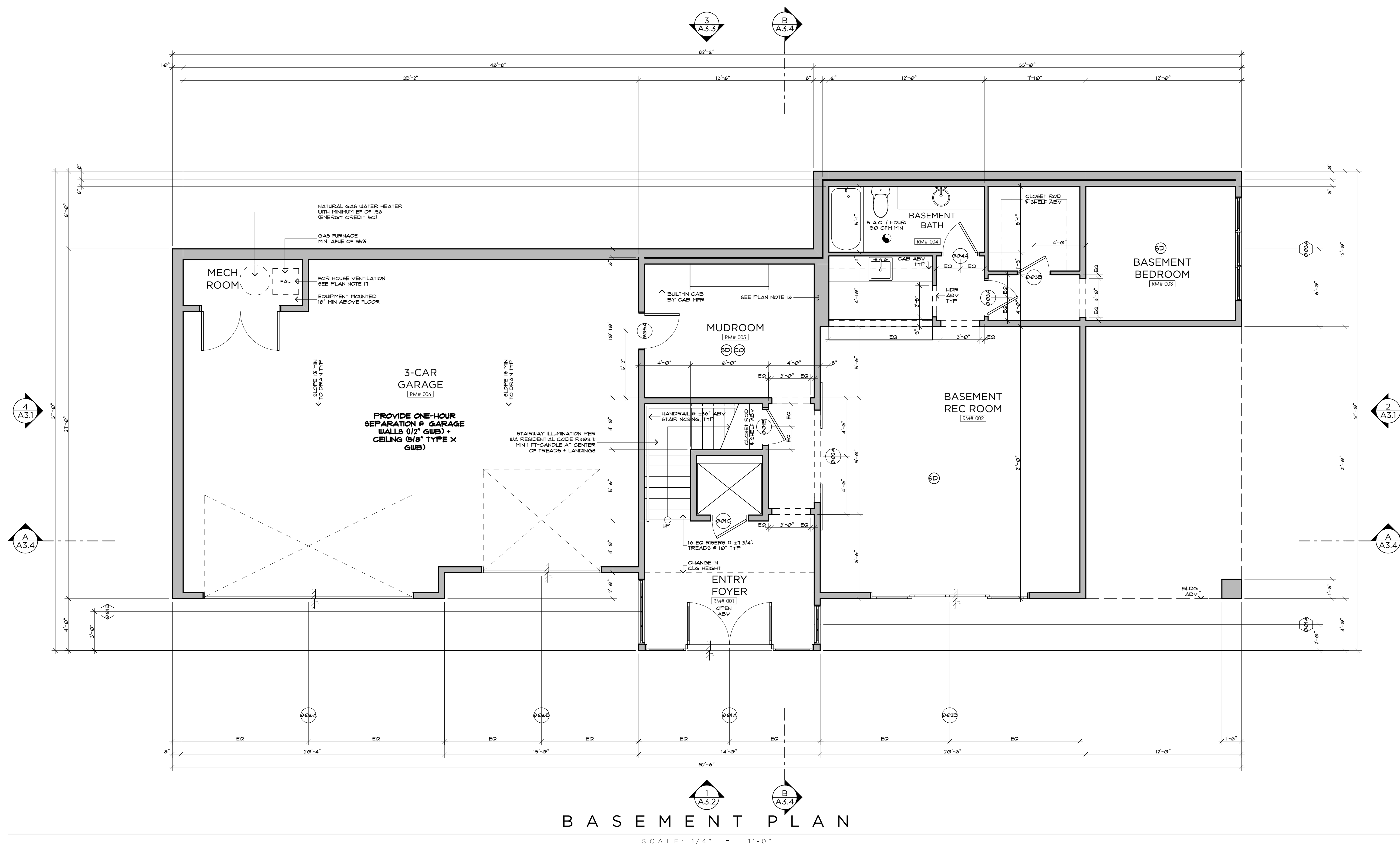
- THIS PROJECT SHALL BE DESIGNED, ENGINEERED, + CONSTRUCTED IN FULL COMPLIANCE W/ ALL CODES + REGULATIONS.
- ALL EXTERIOR WALLS SHALL BE 2x6 UNO.
- ALL INTERIOR WALLS SHALL BE 2x6 UNO.
- ALL HANDRAILS SHALL BE LOCATED @ 36" ABOVE STAIR NOSING WITH A GRASP DIMENSION BETWEEN 1 1/2" - 2".
- ALL HANDRAILS SHALL BE CONTINUOUS OR TERMINATE AT NEWEL POST.
- ALL GUARDRAILS SHALL BE 36" ABOVE FINISHED FLOOR AND DESIGNED SUCH THAT THE MAXIMUM OPENING WILL NOT ALLOW PASSAGE OF A 4" SPHERE.
- ALL GUARDRAILS SHALL BE DESIGNED TO RESIST A 200LB CONCENTRATED LOAD AT THE TOP RAIL AND 50 PSF ON ALL GUARDRAIL INFILL COMPONENTS.
- 5/8" GWB AT ALL GARAGE WALLS AND CEILING AS WELL AS ANY POSTS + BEAMS.
- ACCESSIBLE AREA UNDER STAIR SHALL BE 1/2" GWB MINIMUM PER 502.7.
- PROVIDE A PROGRAMMABLE THERMOSTAT FOR THE PRIMARY SPACE CONDITIONING SYSTEM WITHIN EACH DWELLING UNIT PER SEC R403.11.
- A MINIMUM OF 75 PERCENT OF PERMANENTLY INSTALLED LAMPS IN LIGHTING FIXTURES SHALL BE HIGH-EFFICACY LAMPS.
- ALL SHOWERHEADS + KITCHEN SINK FAUCETS INSTALLED IN THE UNIT SHALL BE RATED AT 1.75 GPM OR LESS. ALL OTHER LAVATORY FAUCETS SHALL BE RATED AT 1.0 GPM OR LESS.
- ALL EXHAUST AIR SHALL VENT DIRECTLY TO THE EXTERIOR OF THE BUILDING PER M501.1 AND M506.2.
- CLOTHES DRYER SHALL BE EXHAUSTED TO THE OUTSIDE PER M502.1.
- ALL STAIRS SHALL MEET FOLLOWING REQUIREMENTS:
 - MINIMUM 36" WIDTH.
 - MAXIMUM 7 3/4" RISER, MINIMUM 10" TREAD.
 - MINIMUM 6'-8" HEAD ROOM.
 - MINIMUM LANDING LENGTH 36"
- A WRITTEN REPORT OF THE AIR LEAKAGE TEST RESULTS SHALL BE SIGNED BY THE TESTING PARTY AND PROVIDED TO THE BUILDING INSPECTOR PRIOR TO CALL FOR FINAL INSPECTION. AIR LEAKAGE SHALL NOT EXCEED 2.0 AIR CHANGES/HOUR.
- WHOLE HOUSE VENTILATION INTEGRATED WITH FORCED-AIR SYSTEM PER IRC M507.5.5 AND SHALL RUN INTERMITTENTLY.
- FIRE-BLOCKING SHALL BE PROVIDED IN THE FOLLOWING AREAS:
 - CONCEALED SPACES OF STUD WALLS VERTICALLY BETWEEN CEILING AND FLOOR LEVELS + HORIZONTALLY AT INTERVALS NOT EXCEEDING 10FT

CONDITIONED SPACE CALCULATIONS: (PER 2015 WASHINGTON STATE ENERGY CODE)

PROPOSED BASEMENT AREA:	1,145 FT ²
PROPOSED FIRST FLOOR:	1,986 FT ²
PROPOSED SECOND FLOOR:	1,844 FT ²
TOTAL CONDITIONED FLOOR AREA:	4,975 FT² (23.8%)

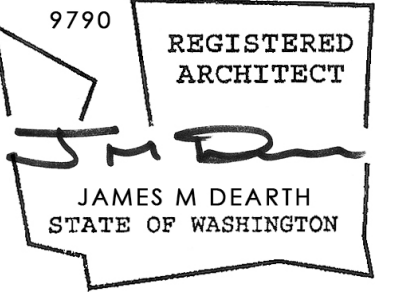
ENERGY CREDIT CALCULATIONS:

2b. A. TESTED AIR LEAKAGE SHALL BE 2.0 AIR CHANGES PER HOUR MAXIMUM.	1.0
B. HEAT RECOVERY VENTILATION SYSTEM SHALL BE INSTALLED WITH A MINIMUM SENSIBLE HEAT RECOVERY EFFICIENCY OF 0.70.	1.0
3a. PROPANE FURNACE WITH MINIMUM AFUE OF 94%.	1.5
3c. PROPANE WATER HEATER WITH MINIMUM EF OF 0.91.	1.5
TOTAL CREDITS:	3.5



BASEMENT PLAN

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

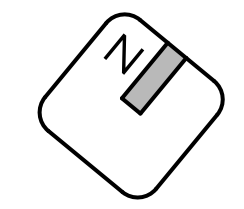


EMERGER
PARCEL 3
8379 E. MERCER WAY
MERCER ISLAND, WA

BASEMENT PLAN

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RELEASE
SCHEMATIC DESIGN
20 JUNE 2017

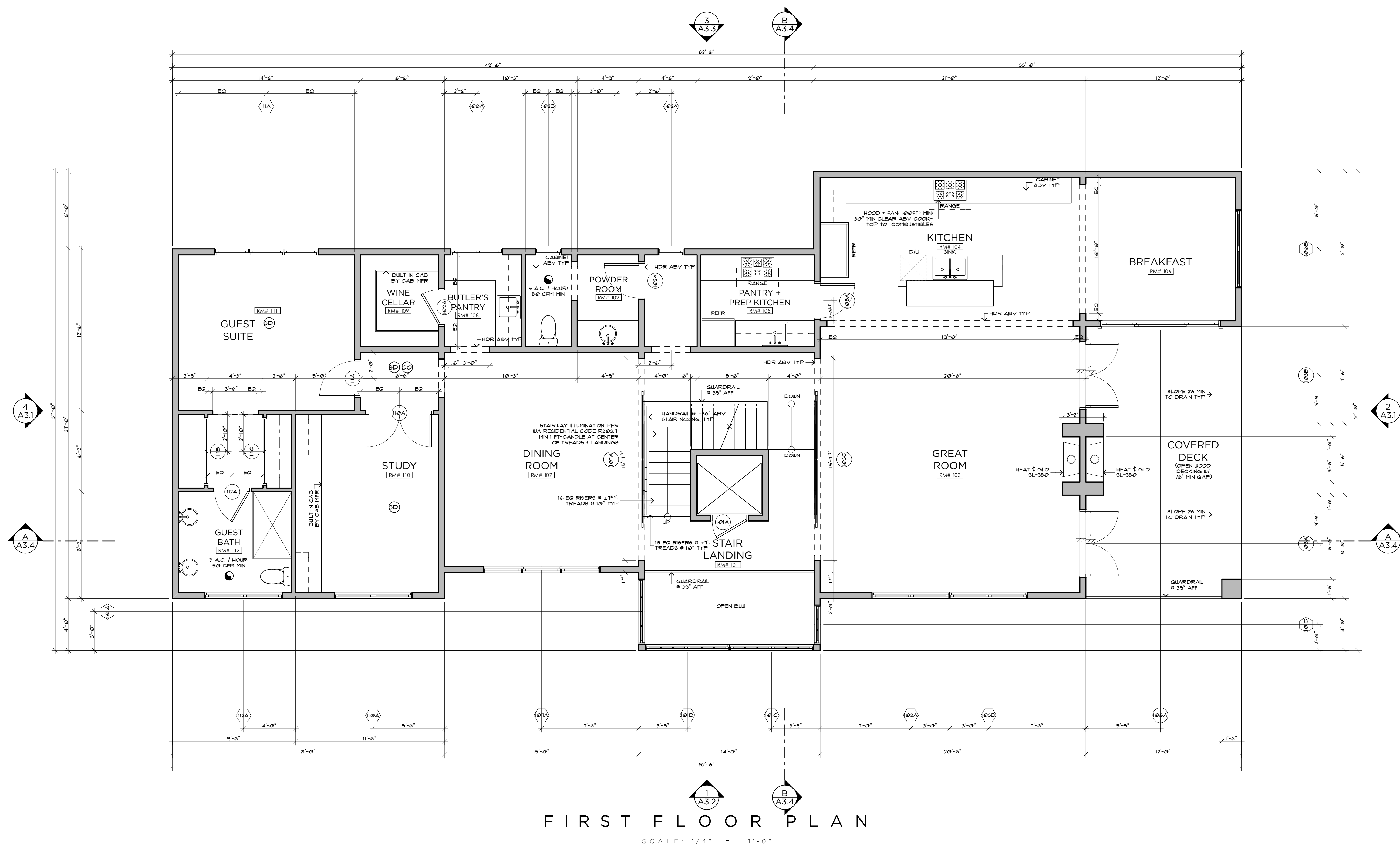


FLOOR PLAN NOTES:

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- ALL GUARDRAILS SHALL BE DESIGNED TO RESIST A 200LB CONCENTRATED LOAD AT THE TOP RAIL AND 50 PSF ON ALL GUARDRAIL INFILL COMPONENTS.
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 - MINIMUM 6'-8" HEAD ROOM.
 - MINIMUM LANDING LENGTH 36"
- A WRITTEN REPORT OF THE AIR LEAKAGE TEST RESULTS SHALL BE SIGNED BY THE TESTING PARTY AND PROVIDED TO THE BUILDING INSPECTOR PRIOR TO CALL FOR FINAL INSPECTION. AIR LEAKAGE SHALL NOT EXCEED 2.0 AIR CHANGES/HOUR.
- WHOLE HOUSE VENTILATION INTEGRATED WITH FORCED-AIR SYSTEM PER IRC M507.3.5 AND SHALL RUN INTERMITTENTLY.
- FIRE-BLOCKING SHALL BE PROVIDED IN THE FOLLOWING AREAS:
 - CONCEALED SPACES OF STUD WALLS VERTICALLY BETWEEN CEILING AND FLOOR LEVELS + HORIZONTALLY AT INTERVALS NOT EXCEEDING 10FT

ENERGY CREDIT CALCULATIONS:

- TESTED AIR LEAKAGE SHALL BE 2.0 AIR CHANGES PER HOUR MAXIMUM.
 - HEAT RECOVERY VENTILATION SYSTEM SHALL BE INSTALLED WITH A MINIMUM SENSIBLE HEAT RECOVERY EFFICIENCY OF 0.70.
 - PROPANE FURNACE WITH MINIMUM AFUE OF 94%.
 - PROPANE WATER HEATER WITH MINIMUM EF OF 0.91.
- TOTAL CREDITS:** 3.5



FIRST FLOOR PLAN

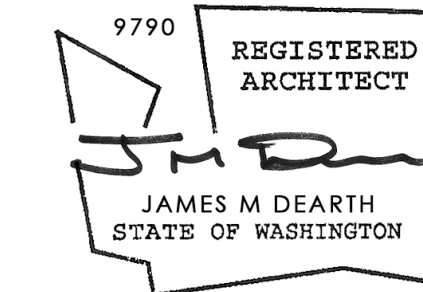
SCALE: 1/4" = 1'-0"



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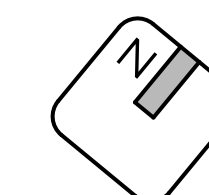
EMERCCER
PARCEL 3

8379 E. MERCER WAY MERCER ISLAND, WA

FIRST FLOOR
PLAN

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A 2.1

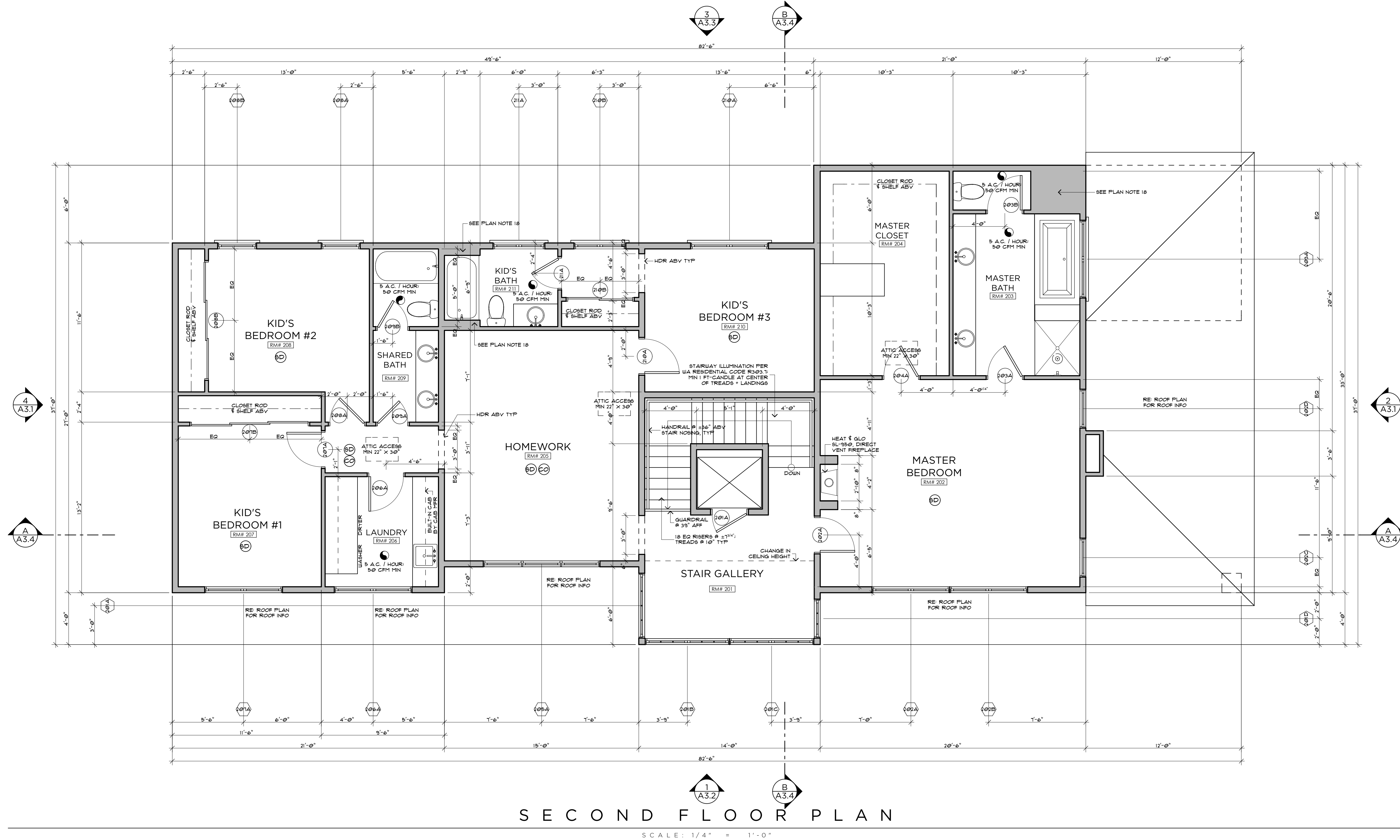
EMERCCER
PARCEL 3

FLOOR PLAN NOTES:

- THIS PROJECT SHALL BE DESIGNED, ENGINEERED, + CONSTRUCTED IN FULL COMPLIANCE W/ ALL CODES + REGULATIONS.
- ALL EXTERIOR WALLS SHALL BE 2x6 UWD.
- ALL INTERIOR WALLS SHALL BE 2x6 UWD.
- ALL HANDRAILS SHALL BE LOCATED @ 36" ABOVE STAIR NOSING WITH A GRASP DIMENSION BETWEEN 1 1/4" - 2".
- ALL HANDRAILS SHALL BE CONTINUOUS OR TERMINATE AT NEVEL POST.
- ALL GUARDRAILS SHALL BE 36" ABOVE FINISHED FLOOR AND DESIGNED SUCH THAT THE MAXIMUM OPENING WILL NOT ALLOW PASSAGE OF A 4' SPHERE.
- ALL GUARDRAILS SHALL BE DESIGNED TO RESIST A 200LB CONCENTRATED LOAD AT THE TOP RAIL AND 50 PSF ON ALL GUARDRAIL INFILL COMPONENTS.
- 5/8" GWB AT ALL GARAGE WALLS AND CEILING AS WELL AS ANY POSTS + BEAMS.
- ACCESSIBLE AREA UNDER STAIR SHALL BE 1/2" GWB MINIMUM PER 302.7.
- PROVIDE A PROGRAMMABLE THERMOSTAT FOR THE PRIMARY SPACE CONDITIONING SYSTEM WITHIN EACH DWELLING UNIT PER SEC R403.11.
- A MINIMUM OF 75 PERCENT OF PERMANENTLY INSTALLED LAMPS IN LIGHTING FIXTURES SHALL BE HIGH-EFFICACY LAMPS.
- ALL SHOWERHEADS + KITCHEN SINK FAUCETS INSTALLED IN THE UNIT SHALL BE RATED AT 1.75 GPM OR LESS. ALL OTHER LAVATORY FAUCETS SHALL BE RATED AT 1.0 GPM OR LESS.
- ALL EXHAUST AIR SHALL VENT DIRECTLY TO THE EXTERIOR OF THE BUILDING PER M501.1 AND M506.2.
- CLOTHES DRYER SHALL BE EXHAUSTED TO THE OUTSIDE PER M502.1
- ALL STAIRS SHALL MEET FOLLOWING REQUIREMENTS:
 - MINIMUM 36" WIDTH.
 - MAXIMUM 7 3/4" RISER, MINIMUM 10" TREAD.
 - MINIMUM 6'-8" HEAD ROOM.
 - MINIMUM LANDING LENGTH 36"
- A WRITTEN REPORT OF THE AIR LEAKAGE TEST RESULTS SHALL BE SIGNED BY THE TESTING PARTY AND PROVIDED TO THE BUILDING INSPECTOR PRIOR TO CALL FOR FINAL INSPECTION. AIR LEAKAGE SHALL NOT EXCEED 2.0 AIR CHANGES/HOUR.
- WHOLE HOUSE VENTILATION INTEGRATED WITH FORCED-AIR SYSTEM PER IRC M507.3.5 AND SHALL RUN INTERMITTENTLY.
- FIRE-BLOCKING SHALL BE PROVIDED IN THE FOLLOWING AREAS:
 - CONCEALED SPACES OF STUD WALLS VERTICALLY BETWEEN CEILING AND FLOOR LEVELS + HORIZONTALLY AT INTERVALS NOT EXCEEDING 10FT

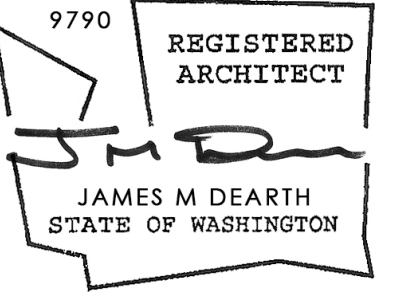
ENERGY CREDIT CALCULATIONS:

- TESTED AIR LEAKAGE SHALL BE 2.0 AIR CHANGES PER HOUR MAXIMUM.
 - HEAT RECOVERY VENTILATION SYSTEM SHALL BE INSTALLED WITH A MINIMUM SENSIBLE HEAT RECOVERY EFFICIENCY OF 0.70.
 - PROPANE FURNACE WITH MINIMUM AFUE OF 94%.
 - PROPANE WATER HEATER WITH MINIMUM EF OF 0.91.
- TOTAL CREDITS: 3.5**



SECOND FLOOR PLAN

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

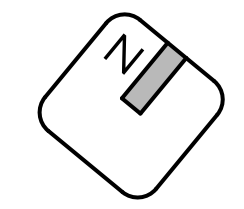


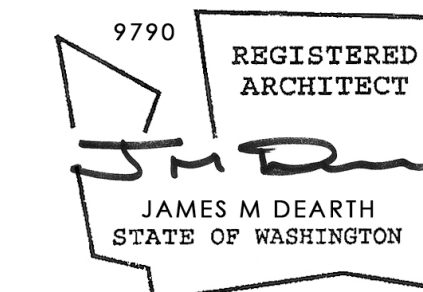
8379 E. MERCER WAY
EMERCER
PARCEL 3
MERCER ISLAND, WA

SECOND FLOOR PLAN

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ROOF PLAN

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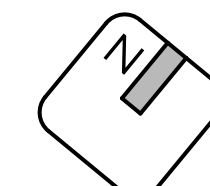
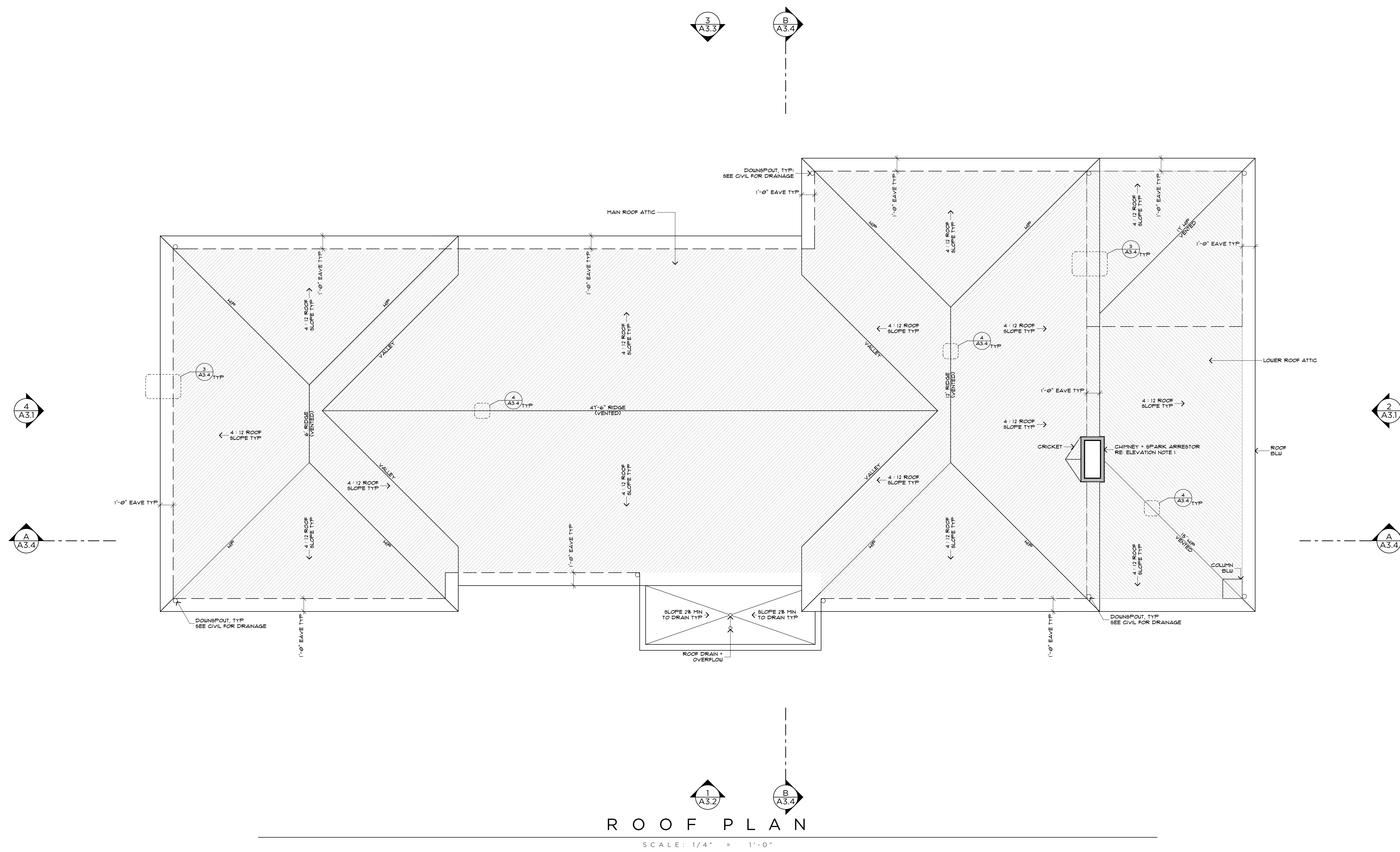
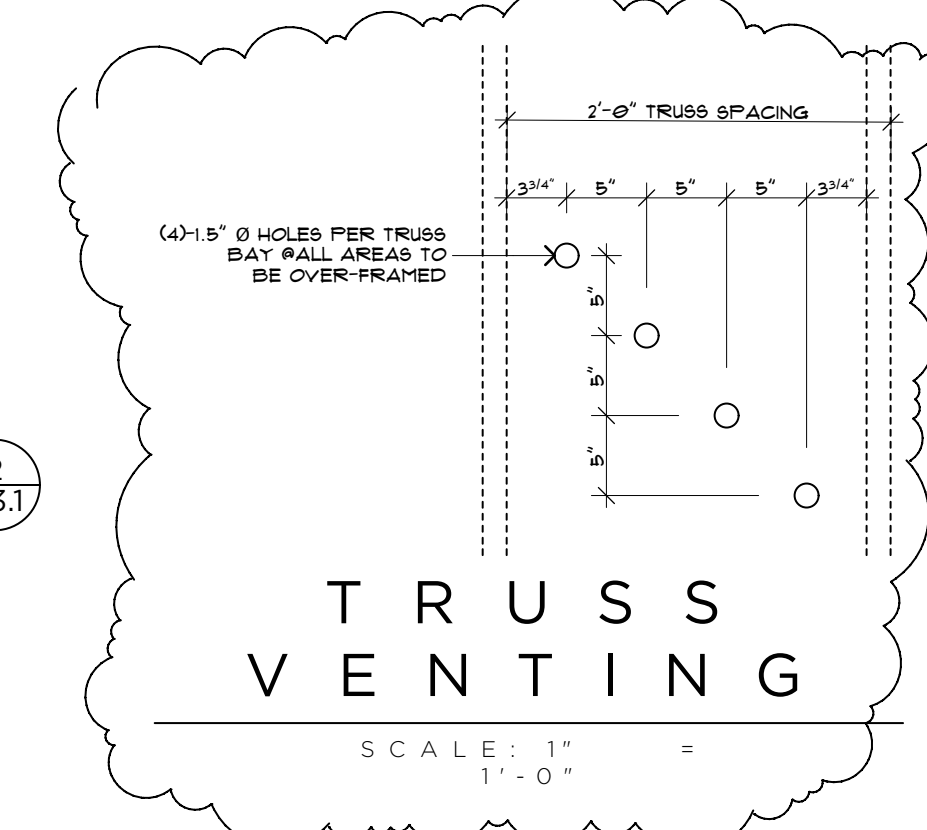
EMERCCER PARCEL 3

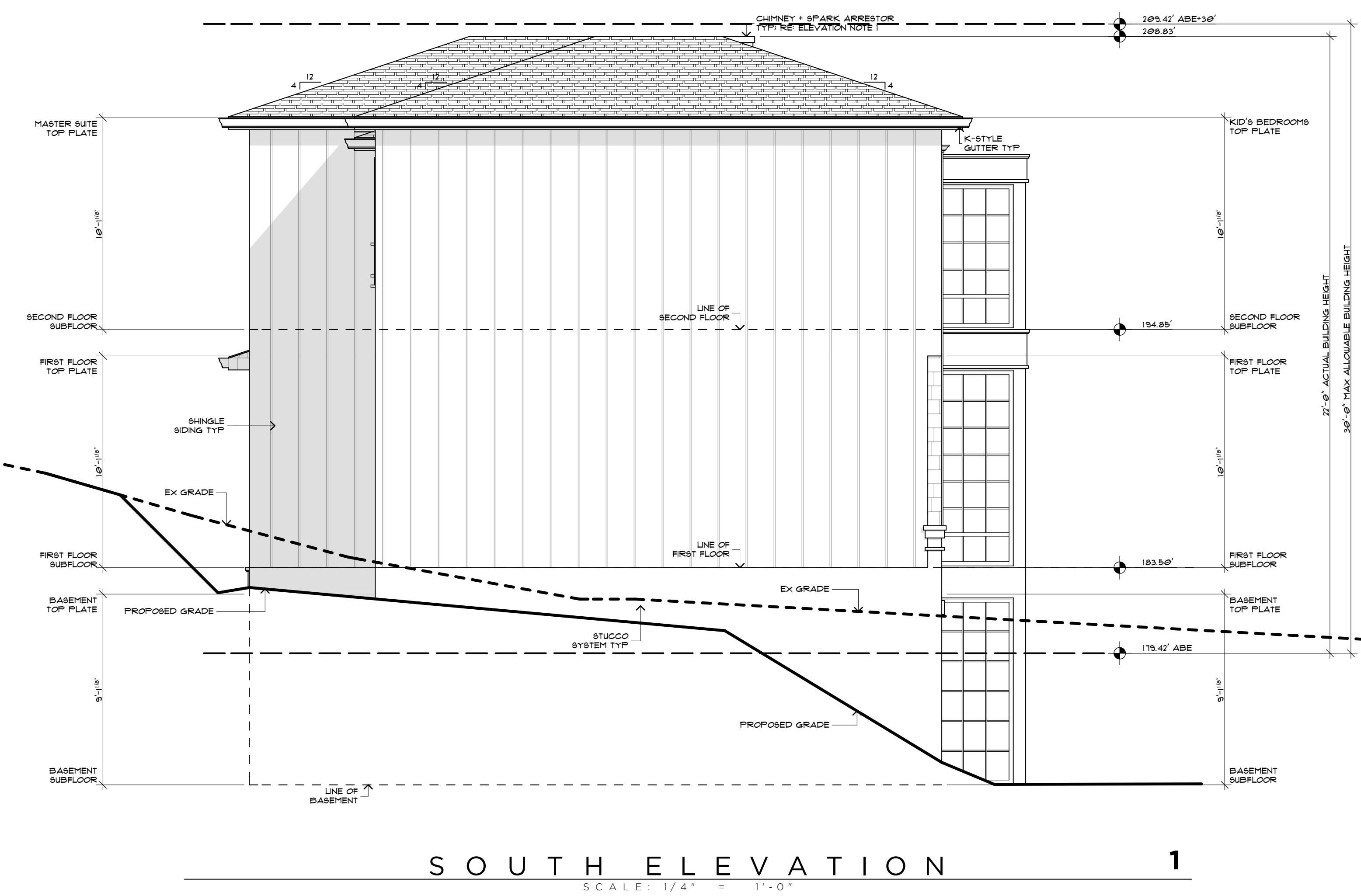
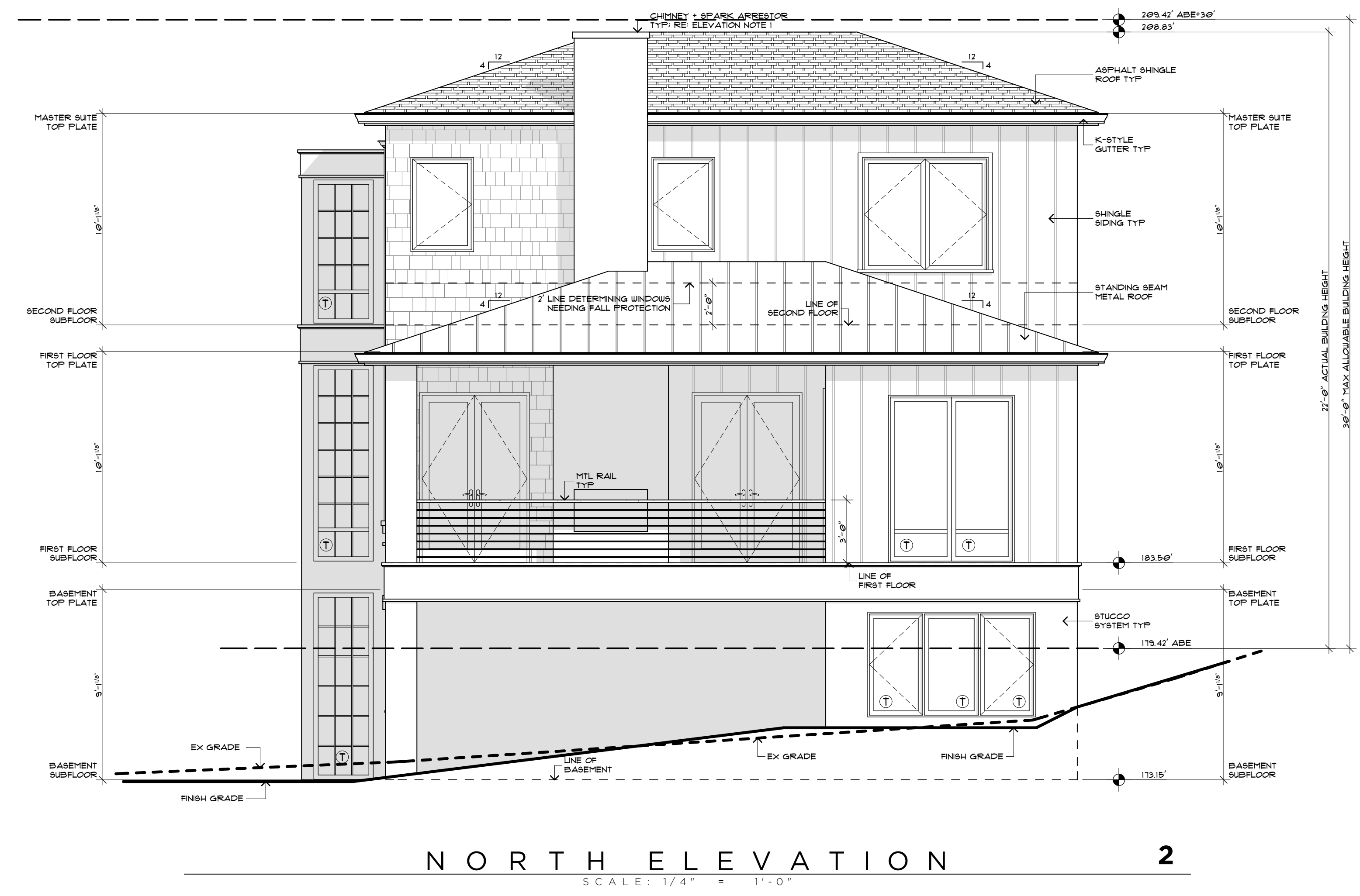
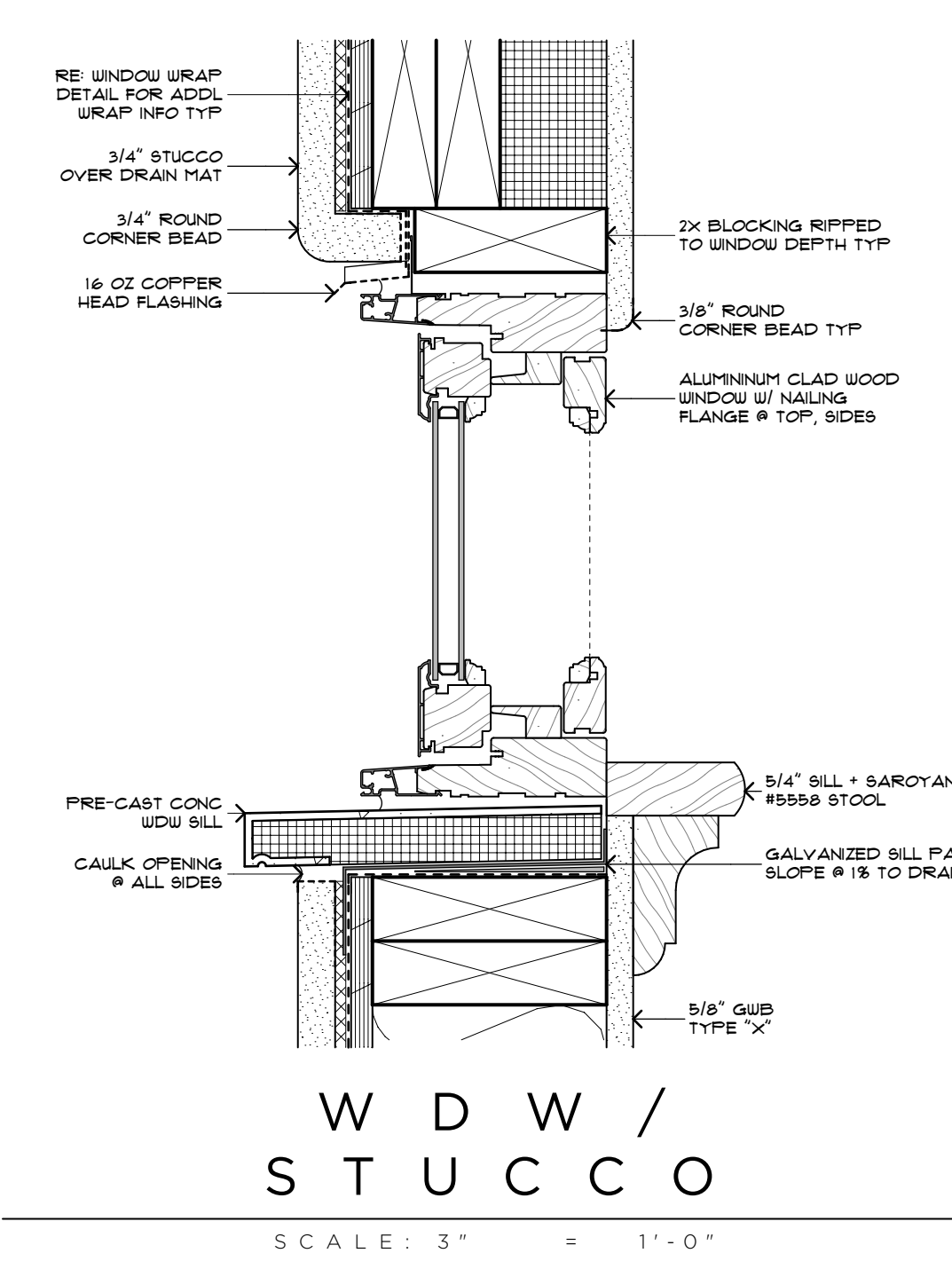
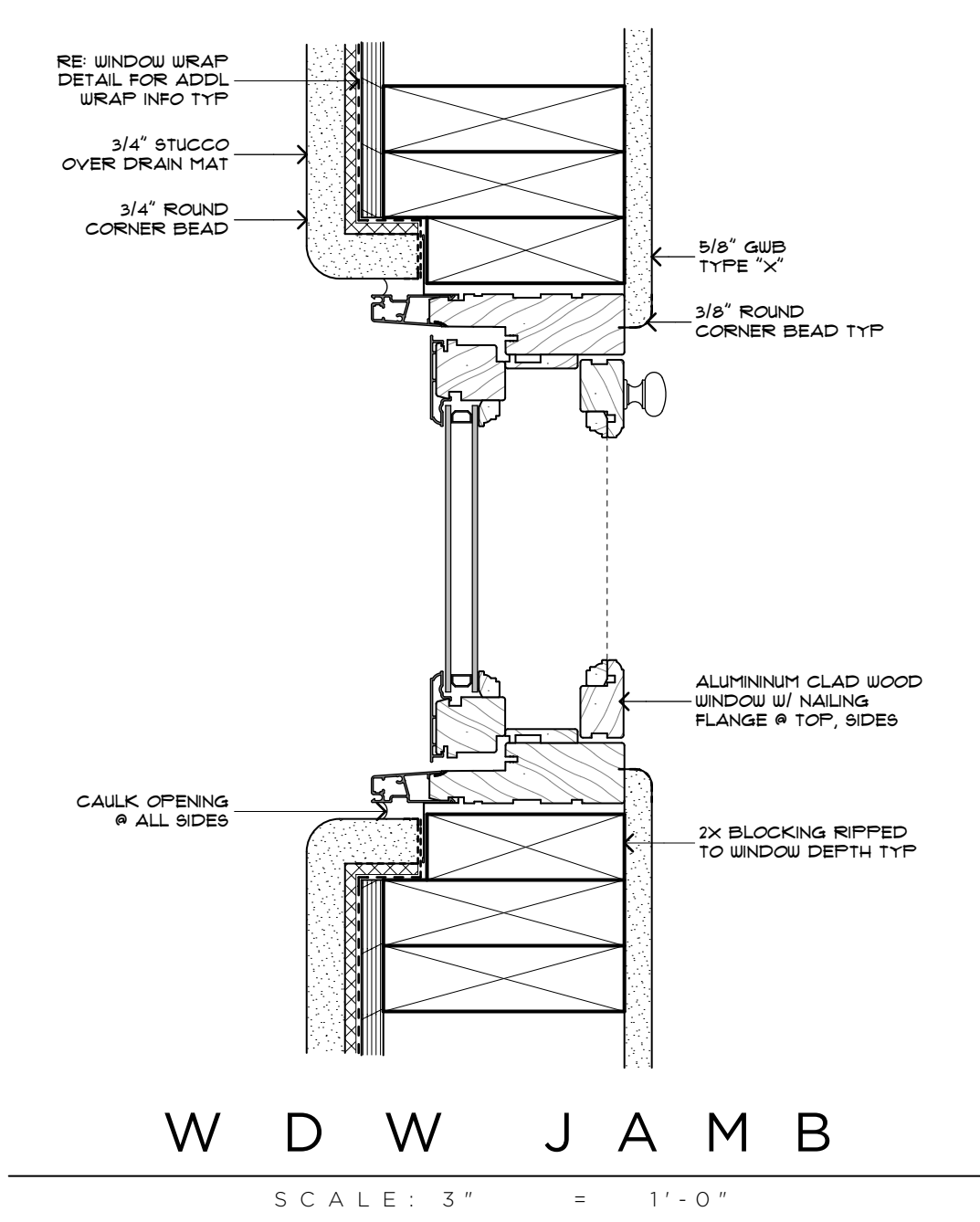
ROOF NOTES:

1. CHIMNEY SHALL EXTEND A MIN OF 2'-0" ABV ROOF OR PARAPET WITHIN 10'-0" RADIUS OF CHIMNEY. PROVIDE APPROVED SPARK ARRESTOR @ ALL CHIMNEY CAPS. ALL ARCHITECTURAL FEATURES MUST BE PERMITTED BY FLU + SPARK ARRESTOR MFR APPROVAL.
2. COORDINATE DOWNSPOUT LOCATION W/ RIPPLE DESIGN STUDIO, INC. PRIOR TO INSTALLATION.
3. ALL VENTS SHALL BE LOCATED AWAY FROM VISIBILITY @ PUBLIC RIGHT-OF-WAY.
4. TRUSS MANUFACTURERS TO PROVIDE TRUSS SHOP DRAWINGS TO RIPPLE DESIGN STUDIO FOR DESIGN APPROVAL PRIOR TO TRUSS MANUFACTURING.
5. ATTIC SHALL BE VENTED THROUGH EAVE, RIDGE, AND HIP VENTS AS WELL AS VENTILATION HOLES IN SHEATHING BETWEEN ATTIC SPACES.

ATTIC VENTILATION CALCULATIONS:

ATTIC AREA - MAIN ROOF	1972.00
REQUIRED VENTING (1/150)	13.15
LINEAR FEET OF RIDGE / HIP VENTING	65.50
PROPOSED RIDGE / HIP VENTING	6.14
@83.5 sq in NET/ FOOT (COR-A-VENT V-300)	
LINEAR FEET OF EAVE VENTING	193.00
PROPOSED EAVE VENTING	8.42
@83.14 sq in PER 2" HOLE @ BLOCKING, 2 HOLES / FT = 6.28 sq in / FT	
TOTAL PROPOSED VENTILATION	14.56
ATTIC AREA - LOWER ROOF	396.00
REQUIRED VENTING (1/150)	2.64
LINEAR FEET OF HIP VENTING	32.00
PROPOSED HIP VENTING	3.00
@83.5 sq in NET/ FOOT	
LINEAR FEET OF EAVE VENTING	57.00
PROPOSED EAVE VENTING	2.49
@83.14 sq in PER 2" HOLE @ BLOCKING, 2 HOLES / FT = 6.28 sq in / FT	
TOTAL PROPOSED VENTILATION	5.49





**ELEVATION +
SECTION NOTES:**

1. CHIMNEY SHALL EXTEND A MIN OF 2'-0" ABV ROOF OR PARAPET WITHIN 10'-0" RADIUS OF CHIMNEY. PROVIDE APPROVED SPARK ARRESTOR @ ALL CHIMNEY CAPS. ALL ARCHITECTURAL FEATURES MUST BE PERMITTED BY FLU + SPARK ARRESTOR MFR APPROVAL.
2. OPEN GUARDRAILS SHALL HAVE INTERMEDIATE RAILS OR ORNAMENTAL PATTERN SUCH THAT A 4" SPHERE CANNOT PASS THROUGH.

**AVERAGE
BUILDING
ELEVATION
CALC.S:**

ELEVATION @ POINT A:	182.00'
SEGMENT LENGTH @ POINT A:	21.00'
	(3,822.00' @ ELEV x LENGTH)
ELEVATION @ POINT B:	181.50'
SEGMENT LENGTH @ POINT B:	2.00'
	(363.00' @ ELEV x LENGTH)
ELEVATION @ POINT C:	181.00'
SEGMENT LENGTH @ POINT C:	15'
	(2,715.00' @ ELEV x LENGTH)
ELEVATION @ POINT D:	180.25'
SEGMENT LENGTH @ POINT D:	6.00'
	(1,081.50' @ ELEV x LENGTH)
ELEVATION @ POINT E:	178.75'
SEGMENT LENGTH @ POINT E:	14.00'
	(2,502.50' @ ELEV x LENGTH)
ELEVATION @ POINT F:	177.00'
SEGMENT LENGTH @ POINT F:	4.00'
	(708.00' @ ELEV x LENGTH)
ELEVATION @ POINT G:	175.75'
SEGMENT LENGTH @ POINT G:	20.50'
	(3,602.88' @ ELEV x LENGTH)
ELEVATION @ POINT H:	175.25'
SEGMENT LENGTH @ POINT H:	21.00'
	(3,680.25' @ ELEV x LENGTH)
ELEVATION @ POINT I:	175.25'
SEGMENT LENGTH @ POINT I:	12.00'
	(2,103.00' @ ELEV x LENGTH)
ELEVATION @ POINT J:	175.75'
SEGMENT LENGTH @ POINT J:	12.00'
	(2,109.00' @ ELEV x LENGTH)
ELEVATION @ POINT K:	176.50'
SEGMENT LENGTH @ POINT K:	33.00'
	(5,824.50' @ ELEV x LENGTH)
ELEVATION @ POINT L:	177.75'
SEGMENT LENGTH @ POINT L:	6.00'
	(1,066.50' @ ELEV x LENGTH)
ELEVATION @ POINT M:	184.00'
SEGMENT LENGTH @ POINT M:	49.50'
	(9,108.00' @ ELEV x LENGTH)
ELEVATION @ POINT N:	182.00'
SEGMENT LENGTH @ POINT N:	27.00'
	(4,914.00' @ ELEV x LENGTH)
TOTAL ELEV x SEGMENT LENGTHS:	43,600.13'
TOTAL SEGMENT LENGTHS:	243'
AVERAGE BUILDING ELEVATION (ABE):	179.42'

ELEVATION + SECTION NOTES:

- CHIMNEY SHALL EXTEND A MIN OF 2'-0" ABOVE ROOF OR PARAPET WITHIN 10'-0" RADIUS OF CHIMNEY. PROVIDE APPROVED SPARK ARRESTOR @ ALL CHIMNEY CAPS. ALL ARCHITECTURAL FEATURES MUST BE PERMITTED BY FLU + SPARK ARRESTOR MFR APPROVAL.
- OPEN GUARDRAILS SHALL HAVE INTERMEDIATE RAILS OR ORNAMENTAL PATTERN SUCH THAT A 4" SPHERE CANNOT PASS THROUGH.



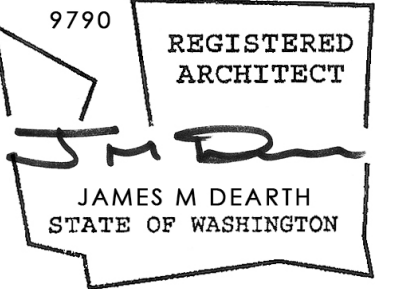
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206.913.2333

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SEATTLE, WA 98103

AVERAGE BUILDING ELEVATION CALC.S:

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SEGMENT LENGTH @ POINT A:	21.00' (3,822.00' @ ELEV x LENGTH)
ELEVATION @ POINT B:	181.50'
SEGMENT LENGTH @ POINT B:	2.00' (363.00' @ ELEV x LENGTH)
ELEVATION @ POINT C:	181.00'
SEGMENT LENGTH @ POINT C:	15' (2,715.00' @ ELEV x LENGTH)
ELEVATION @ POINT D:	180.25'
SEGMENT LENGTH @ POINT D:	6.00' (1,081.50' @ ELEV x LENGTH)
ELEVATION @ POINT E:	178.75'
SEGMENT LENGTH @ POINT E:	14.00' (2,502.50' @ ELEV x LENGTH)
ELEVATION @ POINT F:	177.00'
SEGMENT LENGTH @ POINT F:	4.00' (708.00' @ ELEV x LENGTH)
ELEVATION @ POINT G:	175.75'
SEGMENT LENGTH @ POINT G:	20.50' (3,602.88' @ ELEV x LENGTH)
ELEVATION @ POINT H:	175.25'
SEGMENT LENGTH @ POINT H:	21.00' (3,680.25' @ ELEV x LENGTH)
ELEVATION @ POINT I:	175.25'
SEGMENT LENGTH @ POINT I:	12.00' (2,103.00' @ ELEV x LENGTH)
ELEVATION @ POINT J:	175.75'
SEGMENT LENGTH @ POINT J:	12.00' (2,109.00' @ ELEV x LENGTH)
ELEVATION @ POINT K:	176.50'
SEGMENT LENGTH @ POINT K:	33.00' (5,824.50' @ ELEV x LENGTH)
ELEVATION @ POINT L:	177.75'
SEGMENT LENGTH @ POINT L:	6.00' (1,066.50' @ ELEV x LENGTH)
ELEVATION @ POINT M:	184.00'
SEGMENT LENGTH @ POINT M:	49.50' (9,108.00' @ ELEV x LENGTH)
ELEVATION @ POINT N:	182.00'
SEGMENT LENGTH @ POINT N:	27.00' (4,914.00' @ ELEV x LENGTH)
TOTAL ELEVS x SEGMENT LENGTHS:	43,600.13'
TOTAL SEGMENT LENGTHS:	243'
AVERAGE BUILDING ELEVATION (ABE):	179.42'



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EMERCER PARCEL 3

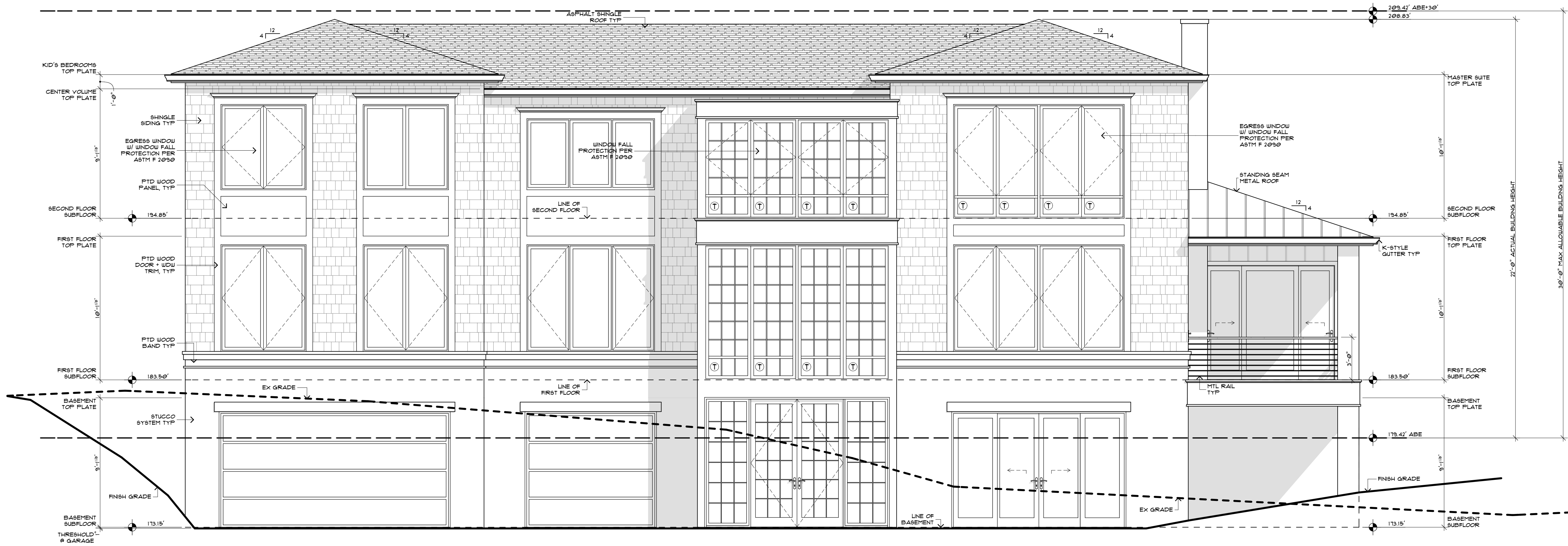
EAST BUILDING ELEVATION

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A 3 . 2

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PARCEL 3

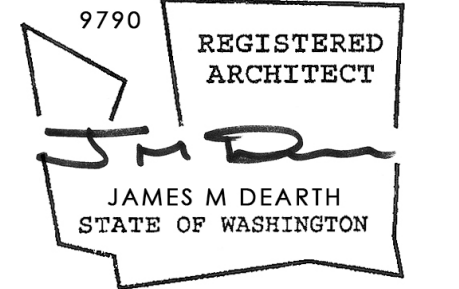


EAST ELEVATION

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

ELEVATION + SECTION NOTES:

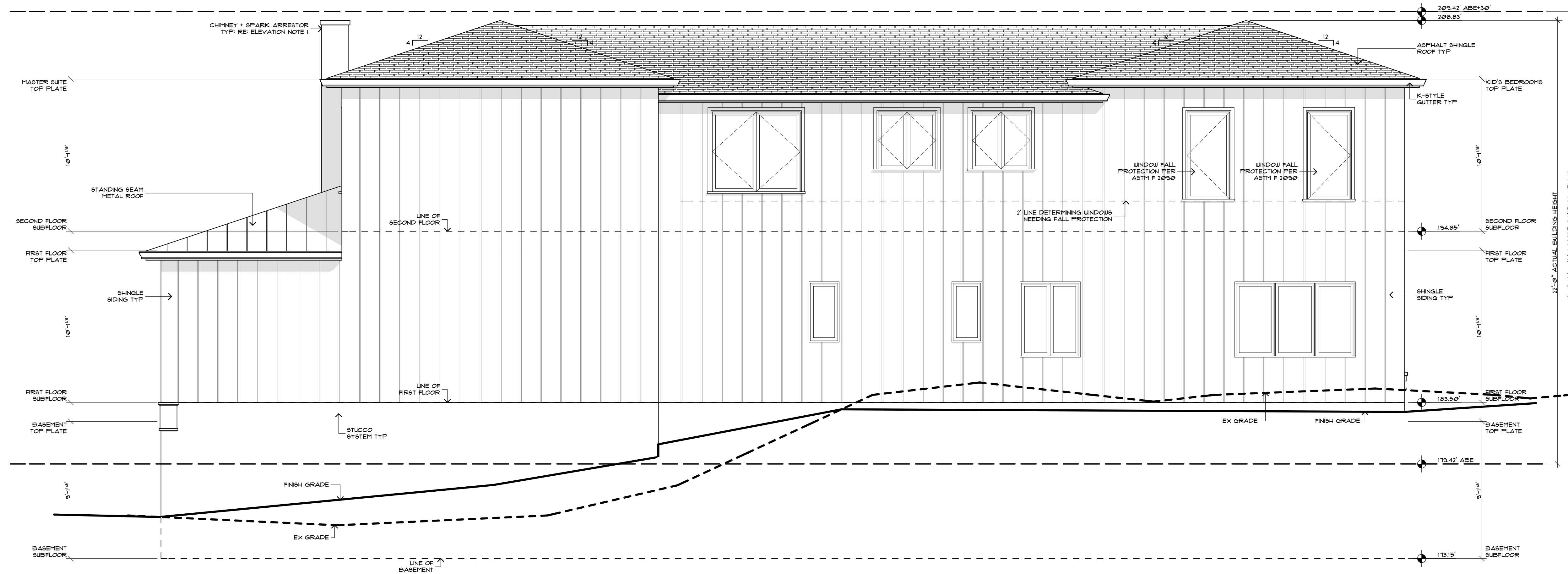
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8379 E. MERCER WAY MERCER ISLAND, WA
EMERCER
PARCEL 3

AVERAGE BUILDING ELEVATION CALC.S:

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	(3,822.00' @ ELEV x LENGTH)
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SEGMENT LENGTH @ POINT B:	2.00'
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TOTAL SEGMENT LENGTHS:	243'
AVERAGE BUILDING ELEVATION (ABE):	179.42'



WEST ELEVATION

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

WEST BUILDING ELEVATIONS
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LONGITUDINAL SECTION A - A

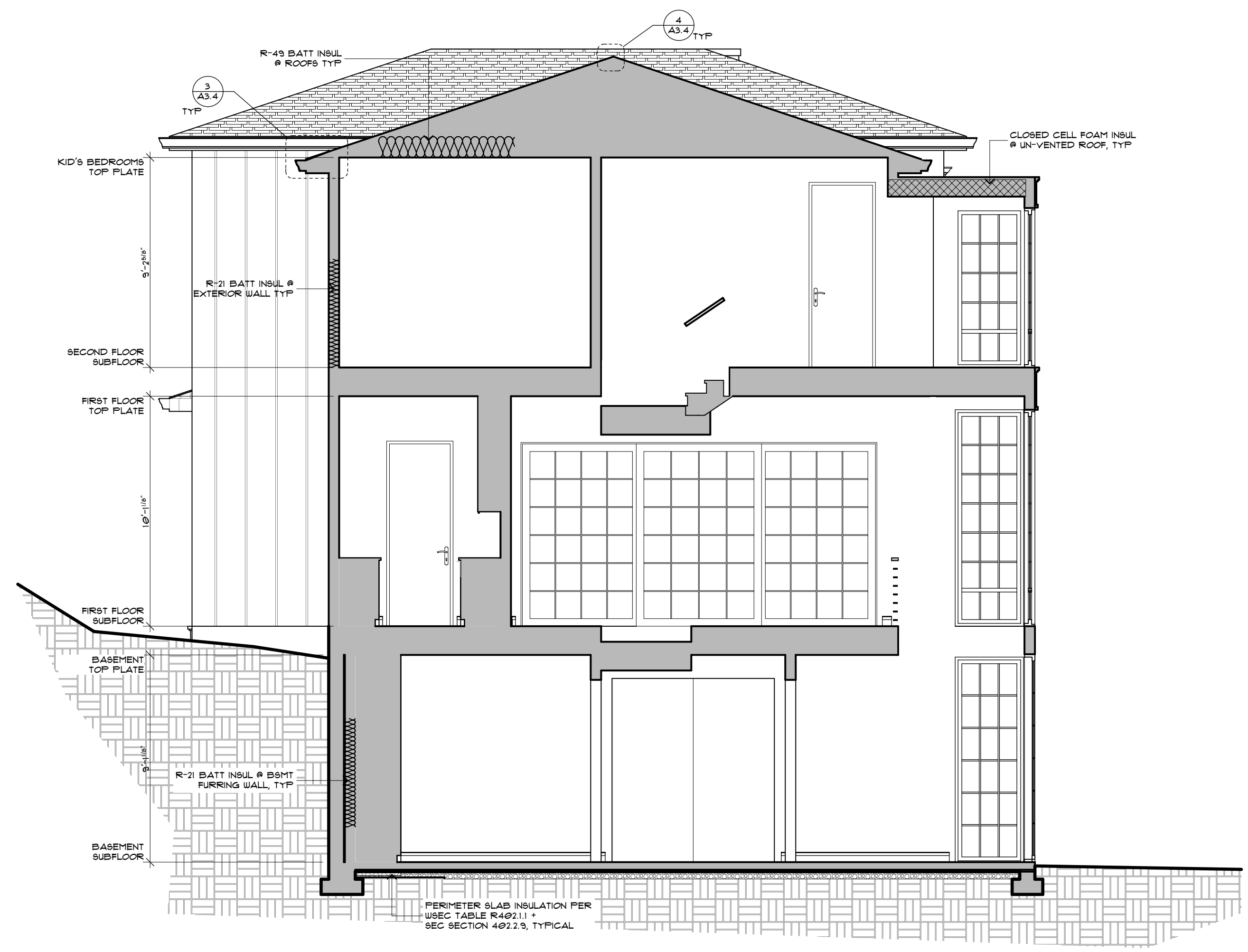
SCALE: 1/4" = 1'-0"

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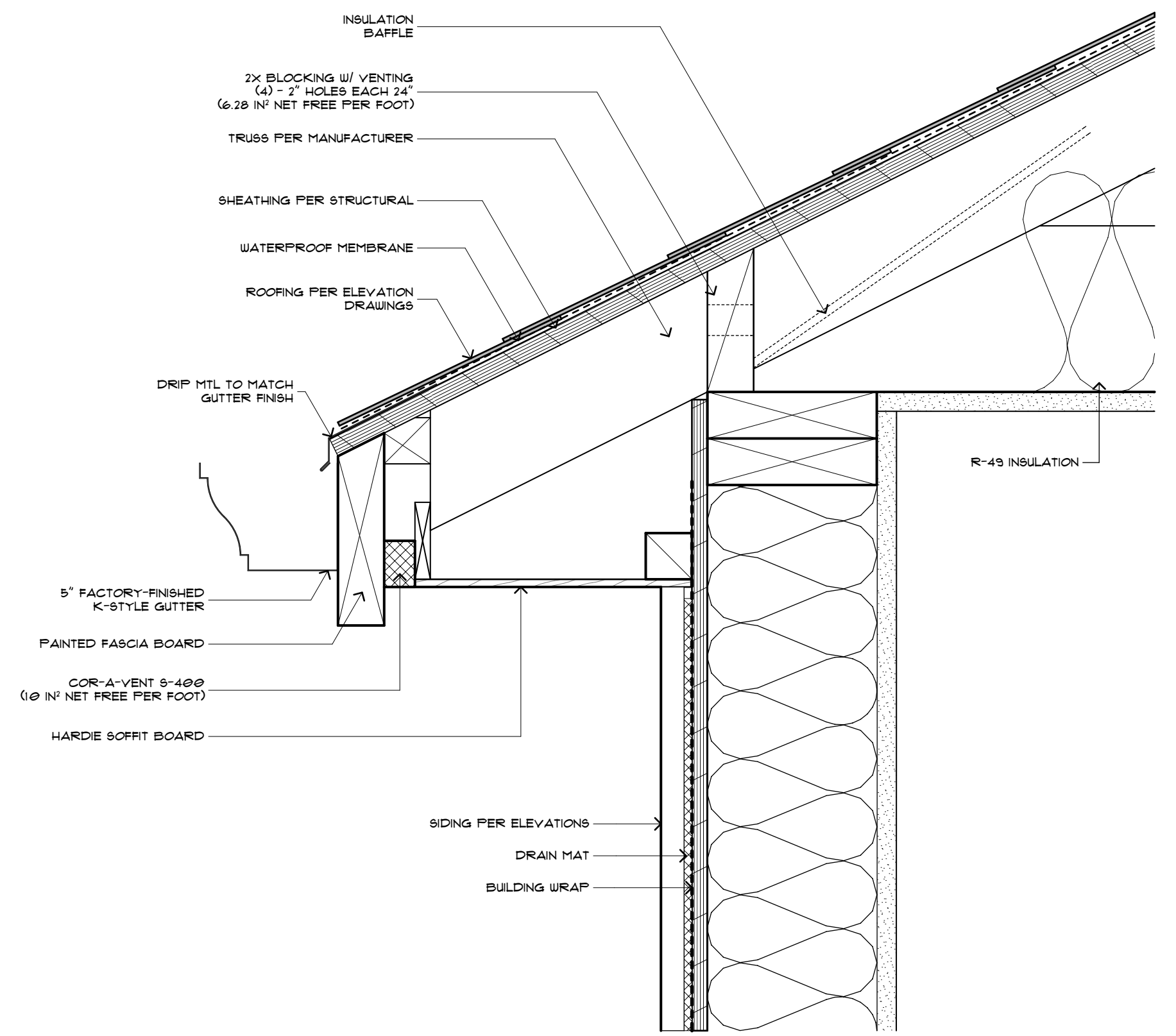
WSEC 2015 NOTES:

- THIS PROJECT IS ELIGIBLE AND COMPLIANT W/ WSEC 2015 PRESCRIPTIVE METHOD.
- INSULATION VALUES SHALL BE AS FOLLOWS:
 - ALL VERTICAL GLAZING SHALL BE 0.30 U-FACTOR MAX.
 - ALL OVERHEAD GLAZING SHALL BE 0.50 U-FACTOR MAX.
 - ALL EXTERIOR DOORS (INCLUDING DOORS FROM CONDITIONED SPACE TO UNCONDITIONED SPACE) SHALL BE 0.20 U-FACTOR MIN.
 - ALL CEILINGS UNCONDITIONED SPACE SHALL RECEIVE R-49 BLOW-IN INSULATION MIN.
 - ALL VAULTED CEILINGS SHALL RECEIVE R-38 BATT INSULATION MIN.
 - ALL ABOVE-GRADE EXTERIOR WALLS SHALL RECEIVE R-21 BATT INSULATION MIN.
 - ALL BELOW-GRADE EXTERIOR WALLS SHALL RECEIVE R-21 BATT INSULATION MIN @ INTERIOR FRAMED WALL.
 - ALL FLOORS OVER UNCONDITIONED SPACE SHALL RECEIVE R-30 BATT INSULATION MIN.
 - ALL SLAB-ON-GRADE WITHIN CONDITIONED SPACE SHALL RECEIVE R-10 RIGID INSULATION WITHIN 24" OF SLAB PERIMETER.
 - ALL HEADERS @ EXTERIOR WALLS SHALL RECEIVE R-10 RIGID INSULATION @ INTERIOR SIDE OF WALL.
- RE: STRUCTURAL DRAWINGS FOR ALL FRAMING COMPLIANCE REQUIREMENTS.
- PROVIDE 100 CFM INTERMITTENTLY OPERATING POINT-OF-USE VENTILATION @ KITCHEN.
- PROVIDE 50 CFM INTERMITTENTLY OPERATING POINT-OF-USE VENTILATION @ ALL BATHS + LAUNDRY.
- NATURAL GAS, PROPANE OR OIL WATER HEATER SHALL HAVE A MINIMUM EF OF 0.91 (WSEC 406.2, CREDIT 5c).
- AT CRAWLSPACES THE MIN NET AREA OF VENTILATION OPENINGS SHALL NOT BE LESS THAN 1 FF² FOR EACH 300 FF² OF UNDER-FLOOR AREA. ONE VENTILATION OPENING SHALL BE WITHIN 3'-0" OF EACH CORNER OF THE BUILDING AT CRAWLSPACE, EXCEPT ONE SIDE OF THE BUILDING SHALL BE PERMITTED TO HAVE NO VENTILATION OPENINGS, OR CRAWLSPACE SHALL BE MECHANICALLY VENTED.
- THE BUILDING THERMAL ENVELOPE SHALL BE CONSTRUCTED TO LIMIT AIR LEAKAGE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTIONS R402.4.1 THROUGH R402.4.4. WHERE REQUIRED BY THE CODE OFFICIAL TESTING SHALL BE CONDUCTED BY AN APPROVED THIRD PARTY AND A WRITTEN REPORT OF THE TESTING RESULTS SHALL BE SIGNED BY THE TESTING PARTY AND PROVIDED TO THE CODE OFFICIAL.
- AT LEAST ONE THERMOSTAT PER DWELLING UNIT SHALL BE CAPABLE OF CONTROLLING THE HEATING AND COOLING SYSTEM ON A DAILY SCHEDULE.



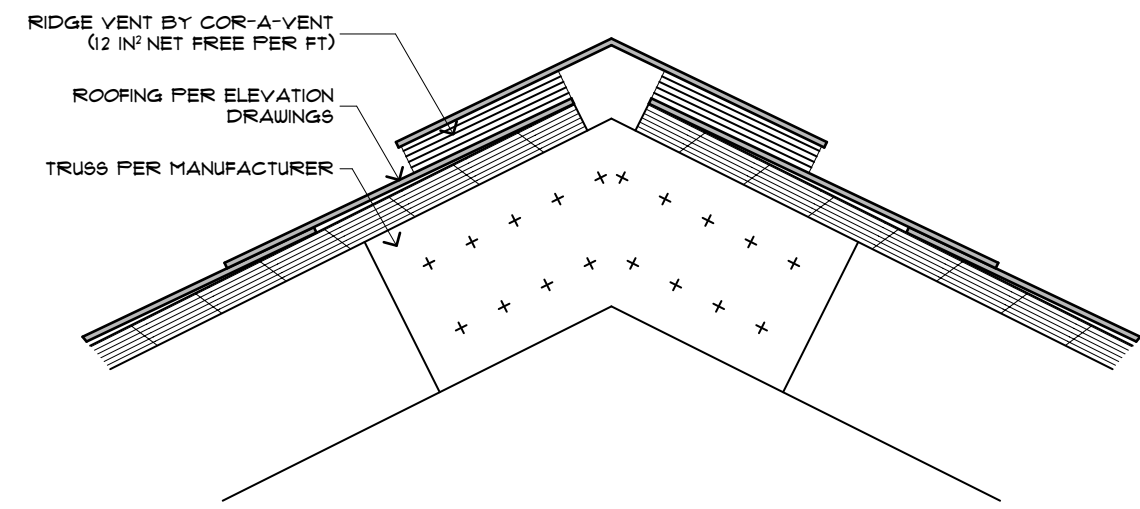
LATERAL SECTION B - B

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



EAVE VENT

SCALE: 3" = 1'-0"



RIDGE VENT

SCALE: 3" = 1'-0"

BUILDING A - A
SECTION B - B
THROUGH B - B
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RELEASE
SCHEMATIC DESIGN
20 JUNE 2017

DOOR SCHEDULE:

DOOR NO.	WIDTH	HEIGHT	TYPE	MATERIAL	FINISH	REMARKS
001A	6'-6"	9'-0"	FRENCH	CLAD WOOD / GLASS		PAIR, DIVIDED LIGHT, W/ 3'-3" SIDELIGHTS
001B	2'-8"	7'-0"	PANEL	WOOD		
001C	2'-8"	8'-0"	PANEL	WOOD		ELEVATOR LOCKING, AUTO-CLOSER
002A	7'-0"	8'-0"	SURFACE SLIDER	WOOD		BARN STYLE SLIDING DOOR
002B	12'-0"	8'-0"	FRENCH SLIDER	CLAD WOOD / GLASS		4-PANEL, DIVIDED LIGHT
003A	2'-8"	7'-0"	PANEL	WOOD		
003B	2'-4"	7'-0"	PANEL	WOOD		
004A	2'-8"	8'-0"	PANEL	WOOD		PRIVACY LOCK
005A	2'-8"	8'-0"	PANEL	WOOD		20-MINUTE RATED, AUTO-CLOSER
005A	6'-0"	8'-0"	PANEL	WOOD		20-MINUTE RATED, AUTO-CLOSER
006A	16'-0"	8'-0"	OVERHEAD	WOOD		GARAGE DOOR
006B	9'-0"	8'-0"	OVERHEAD	WOOD		GARAGE DOOR
101A	2'-8"	8'-0"	PANEL	WOOD		ELEVATOR LOCKING, AUTO-CLOSER
102A	2'-8"	8'-0"	PANEL	WOOD		PRIVACY LOCK
103A	5'-0"	8'-0"	FRENCH	CLAD WOOD / GLASS		PAIR, DIVIDED LIGHT
103B	5'-0"	8'-0"	FRENCH	CLAD WOOD / GLASS		PAIR, DIVIDED LIGHT
103C	15'-6"	8'-0"	SLIDER	WOOD		3-PANEL, 2 OUTBOARD OPERABLE
105A	2'-8"	8'-0"	PANEL	WOOD		
106A	9'-0"	8'-0"	SLIDER	CLAD WOOD / GLASS		3-PANEL, DIVIDED LIGHT
107A	15'-6"	8'-0"	SLIDER	WOOD		3-PANEL, 2 OUTBOARD OPERABLE
109A	2'-8"	8'-0"	PANEL	WOOD		
110A	5'-0"	8'-0"	PANEL	WOOD		PAIR
111A	2'-8"	7'-0"	PANEL	WOOD		
111B	5'-0"	7'-0"	SLIDER	WOOD		PAIR, BY-PASS CLOSET
111C	5'-0"	7'-0"	SLIDER	WOOD		PAIR, BY-PASS CLOSET
112A	2'-8"	8'-0"	PANEL	WOOD		
201A	2'-8"	7'-0"	PANEL	WOOD		ELEVATOR LOCKING, AUTO-CLOSER
202A	2'-8"	8'-0"	PANEL	WOOD		PRIVACY
203A	2'-8"	8'-0"		WOOD		
203B	2'-8"	8'-0"		WOOD		
204A	2'-8"	8'-0"		WOOD		
206A	2'-8"	8'-0"	PANEL	WOOD		
207A	2'-8"	7'-0"	PANEL	WOOD		
207B	9'-0"	7'-0"	SLIDER	WOOD		TRIPLE BY-PASS CLOSET
208A	2'-8"	7'-0"	PANEL	WOOD		
208B	9'-0"	7'-0"	SLIDER	WOOD		TRIPLE BY-PASS CLOSET
209A	2'-4"	7'-0"	PANEL	WOOD		PRIVACY LOCK
209B	2'-4"	7'-0"	PANEL	WOOD		PRIVACY LOCK
210A	2'-8"	7'-0"		WOOD		
210B	5'-0"	7'-0"	SLIDER	WOOD		BY-PASS CLOSET
211A	2'-4"	7'-0"	PANEL	WOOD		

WINDOW SCHEDULE:

WINDOW NO.	WIDTH	HEIGHT	HEADER	TYPE	MATERIAL	FINISH	REMARKS
001A	3'-0"	9'-0"	9'-0"	FIXED	ALUMINUM		DIVIDED LIGHT, SAFETY GLAZING
001B	5'-0"	9'-0"	9'-0"	FIXED	ALUMINUM		DIVIDED LIGHT, SAFETY GLAZING
003A	8'-0"	5'-0"	8'-0"	CASEMENT	ALUMINUM		TRIPLE, DIVIDED LIGHT, SAFETY GLAZING, EGRESS
101A	5'-0"	9'-6"	9'-6"	FIXED	ALUMINUM		DIVIDED LIGHT, SAFETY GLAZING
101B	6'-6"	9'-6"	9'-6"	FIXED	ALUMINUM		DOUBLE, DIVIDED LIGHT, SAFETY GLAZING
101C	6'-6"	9'-6"	9'-6"	FIXED	ALUMINUM		DOUBLE, DIVIDED LIGHT, SAFETY GLAZING
101D	3'-0"	9'-6"	9'-6"	FIXED	ALUMINUM		DIVIDED LIGHT, SAFETY GLAZING
102A	2'-0"	4'-0"	8'-0"	FIXED	ALUMINUM		DIVIDED LIGHT
102B	2'-0"	4'-0"	8'-0"	CASEMENT	ALUMINUM		DIVIDED LIGHT
103A	6'-0"	7'-6"	9'-6"	FIXED	ALUMINUM		PAIR, DIVIDED LIGHT, SAFETY GLAZING
103B	6'-0"	7'-6"	9'-6"	FIXED	ALUMINUM		PAIR, DIVIDED LIGHT, SAFETY GLAZING
104B	6'-0"	8'-0"	8'-0"	CASEMENT	ALUMINUM		DOUBLE, DIVIDED LIGHT, SAFETY GLAZING @ LOWER AWNING, FALL PROTECTION, EGRESS
107A	9'-0"	7'-6"	9'-6"	FIXED	ALUMINUM		TRIPLE, DIVIDED LIGHT, SAFETY GLAZING
108A	4'-0"	5'-0"	8'-0"	CASEMENT	ALUMINUM		PAIR, DIVIDED LIGHT
110A	6'-0"	7'-6"	9'-6"	FIXED	ALUMINUM		PAIR, DIVIDED LIGHT, SAFETY GLAZING
111A	8'-0"	5'-0"	8'-0"	CASEMENT	ALUMINUM		TRIPLE, DIVIDED LIGHT, EGRESS
112A	6'-0"	7'-6"	9'-6"	FIXED	ALUMINUM		PAIR, DIVIDED LIGHT, FROSTED GLASS
201A	5'-0"	7'-0"	7'-0"	FIXED	ALUMINUM		DIVIDED LIGHT, SAFETY GLAZING @ LOWER AWNING
201B	6'-6"	7'-0"	7'-0"	FIXED	ALUMINUM		DOUBLE, DIVIDED LIGHT, SAFETY GLAZING @ LOWER AWNING
201C	6'-6"	7'-0"	7'-0"	FIXED	ALUMINUM		DOUBLE, DIVIDED LIGHT, SAFETY GLAZING @ LOWER AWNING
201D	3'-0"	7'-0"	7'-0"	FIXED	ALUMINUM		DIVIDED LIGHT, SAFETY GLAZING @ LOWER AWNING
202A	6'-0"	8'-0"	8'-0"	CASEMENT	ALUMINUM		DOUBLE, DIVIDED LIGHT, SAFETY GLAZING @ LOWER AWNING, FALL PROTECTION, EGRESS
202B	6'-0"	8'-0"	8'-0"	CASEMENT	ALUMINUM		DOUBLE, DIVIDED LIGHT, SAFETY GLAZING @ LOWER AWNING, FALL PROTECTION, EGRESS
202C	3'-0"	4'-6"	8'-0"	CASEMENT	ALUMINUM		DIVIDED LIGHT, EGRESS
202D	3'-0"	4'-6"	8'-0"	CASEMENT	ALUMINUM		DIVIDED LIGHT, EGRESS
203A	6'-0"	5'-6"	8'-0"	CASEMENT	ALUMINUM		PAIR, DIVIDED LIGHT, SAFETY GLAZING
205A	9'-0"	5'-0"	7'-0"	FIXED	ALUMINUM		TRIPLE, DIVIDED LIGHT
206A	6'-0"	6'-0"	8'-0"	FIXED	ALUMINUM		PAIR, DIVIDED LIGHT
207A	6'-0"	6'-0"	8'-0"	CASEMENT	ALUMINUM		PAIR, DIVIDED LIGHT, EGRESS
208A	3'-0"	6'-0"	8'-0"	CASEMENT	ALUMINUM		DIVIDED LIGHT, EGRESS
208B	3'-0"	6'-0"	8'-0"	CASEMENT	ALUMINUM		DIVIDED LIGHT, EGRESS
210A	6'-0"	5'-6"	8'-0"	CASEMENT	ALUMINUM		PAIR, DIVIDED LIGHT, EGRESS
210B	4'-0"	4'-0"	8'-0"	CASEMENT	ALUMINUM		PAIR, DIVIDED LIGHT
211A	4'-0"	4'-0"	8'-0"	CASEMENT	ALUMINUM		PAIR, DIVIDED LIGHT, SAFETY GLAZING

WSEC 2015 NOTES:

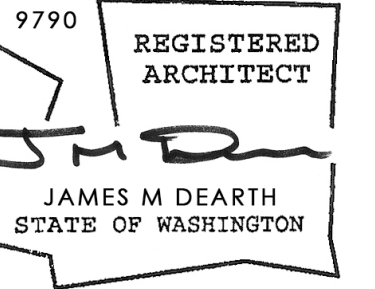
- THIS PROJECT IS ELIGIBLE AND COMPLIANT W/ WSEC 2015 PRESCRIPTIVE METHOD.
- INSULATION VALUES SHALL BE AS FOLLOWS:
 - ALL VERTICAL GLAZING SHALL BE 0.30 U-FACTOR MAX.
 - ALL OVERHEAD GLAZING SHALL BE 0.50 U-FACTOR MAX.
 - ALL EXTERIOR DOORS (INCLUDING DOORS FROM CONDITIONED SPACE TO UNCONDITIONED SPACE) SHALL BE 0.20 U-FACTOR MIN.
 - ALL CEILING UNCONDITIONED SPACE SHALL RECEIVE R-49 BLOWN-IN INSULATION MIN.
 - ALL VAULTED CEILING SHALL RECEIVE R-38 BATT INSULATION MIN.
 - ALL ABOVE-GRADE EXTERIOR WALLS SHALL RECEIVE R-21 BATT INSULATION MIN.
 - ALL BELOW-GRADE EXTERIOR WALLS SHALL RECEIVE R-21 BATT INSULATION MIN @ INTERIOR FRAMED WALL.
 - ALL FLOORS OVER UNCONDITIONED SPACE SHALL RECEIVE R-30 BATT INSULATION MIN.
 - ALL SLAB-ON-GRADE WITHIN CONDITIONED SPACE SHALL RECEIVE R-10 RIGID INSULATION WITHIN 24" OF SLAB PERIMETER.
 - ALL HEADERS @ EXTERIOR WALLS SHALL RECEIVE R-10 RIGID INSULATION @ INTERIOR SIDE OF WALL.
- RE: STRUCTURAL DRAWINGS FOR ALL FRAMING COMPLIANCE REQUIREMENTS.
- PROVIDE 100 CFM INTERMITTENTLY OPERATING POINT-OF-USE VENTILATION @ KITCHEN.
- PROVIDE 50 CFM INTERMITTENTLY OPERATING POINT-OF-USE VENTILATION @ ALL BATHS + LAUNDRY.
- NATURAL GAS, PROPANE OR OIL WATER HEATER SHALL HAVE A MINIMUM EF OF 0.91 (WSEC 406.2, CREDIT 5c).
- AT CRAWLSPACES THE MIN NET AREA OF VENTILATION OPENINGS SHALL NOT BE LESS THAN 1 FT² FOR EACH 300 FT² OF UNDER-FLOOR AREA. ONE VENTILATION OPENING SHALL BE WITHIN 3'-0" OF EACH CORNER OF THE BUILDING AT CRAWLSPACE, EXCEPT ONE SIDE OF THE BUILDING SHALL BE PERMITTED TO HAVE NO VENTILATION OPENINGS, OR CRAWLSPACE SHALL BE MECHANICALLY VENTED.
- THE BUILDING THERMAL ENVELOPE SHALL BE CONSTRUCTED TO LIMIT AIR LEAKAGE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTIONS R402.4.1 THROUGH R402.4.4, WHERE REQUIRED BY THE CODE OFFICIAL. TESTING SHALL BE CONDUCTED BY AN APPROVED THIRD PARTY AND A WRITTEN REPORT OF THE TESTING RESULTS SHALL BE SIGNED BY THE TESTING PARTY AND PROVIDED TO THE CODE OFFICIAL.
- AT LEAST ONE THERMOSTAT PER DWELLING UNIT SHALL BE CAPABLE OF CONTROLLING THE HEATING AND COOLING SYSTEM ON A DAILY SCHEDULE.



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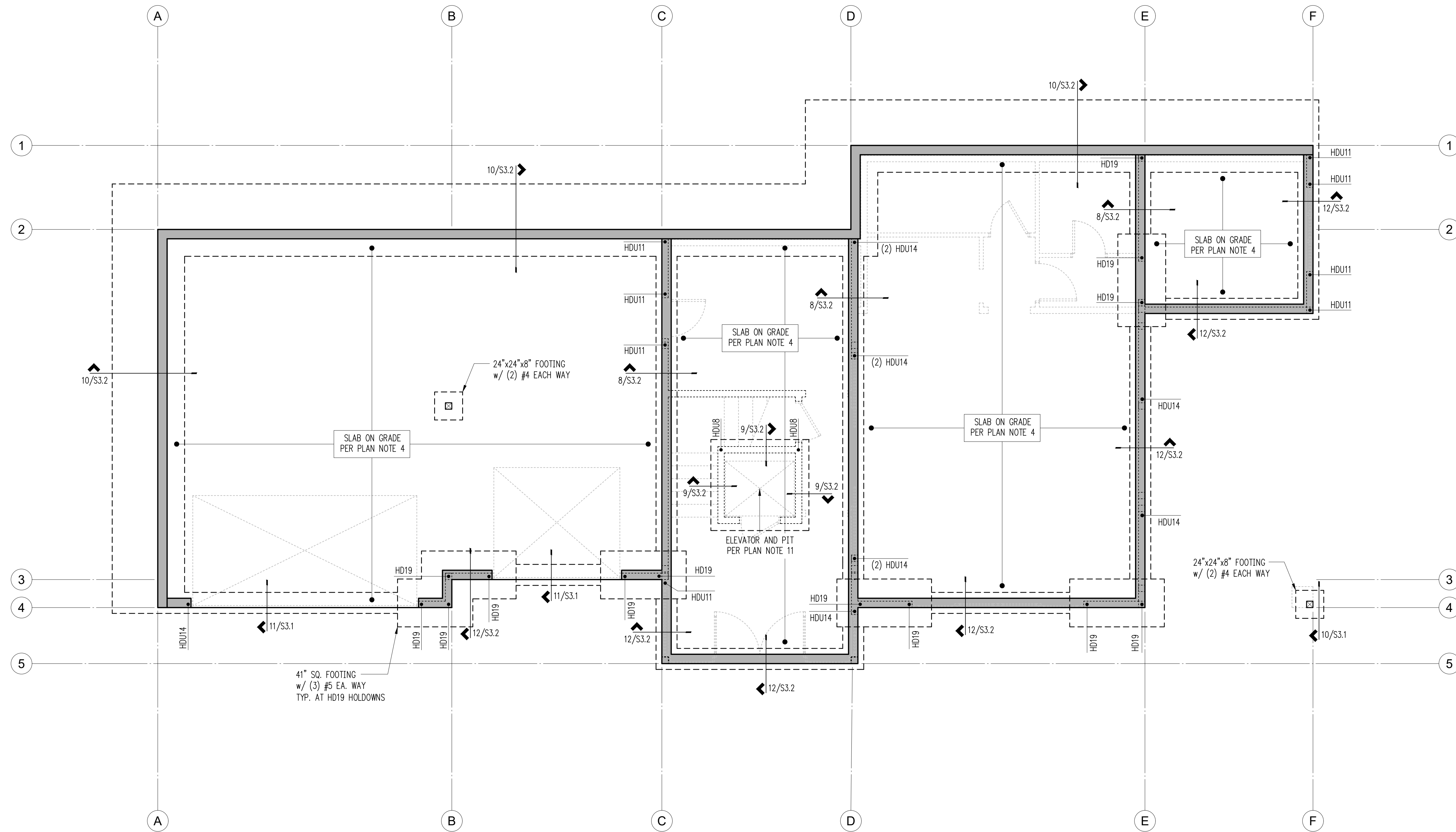
8379 E. MERCER WAY MERCER ISLAND, WA
EMERCER
PARCEL 3

DOOR + WINDOW SCHEDULES
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RELEASE
SCHEMATIC DESIGN
20 JUNE 2017

A 4 . 1

EMERCER
PARCEL 3



East Mercer - Parcel 3

E Mercer Way
Mercer Island, WA, 98040

Basement / Foundation Plan

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

Plan Notes

- REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS (S1.1).
- REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS UNLESS SPECIFICALLY NOTED ON STRUCTURAL PLANS.
- ALL FOOTINGS SHALL BEAR ON FIRM, NATIVE SOIL.
- 4" CONCRETE SLAB ON GRADE REINFORCED WITH #3 @ 12"oc EACH WAY, CENTERED IN SLAB. PROVIDE A BASE OF 4" COMPACTED, CLEAN 3/4" MINUS GRAVEL COVERED WITH 4 MIL. VAPOR BARRIER. PROVIDE JOINTS PER 2/S3.1.
- PROVIDE DRAINAGE BEHIND ALL FOUNDATION WALLS.
- REINFORCE FOOTING AND WALL CORNERS AND INTERSECTIONS PER 6/S3.1.
- "HDU_" REFERS TO HOLDDOWNS PER 8/S3.1
- REFER 9/S3.1 WHERE PIPES PENETRATE FOUNDATION.
- CONTRACTOR TO VERIFY TOP OF FOOTING ELEVATION w/ ARCHITECTURAL PLANS.
- CONTRACTOR TO COORDINATE ELEVATOR DEPRESSION IN FIELD w/ MANUFACTURER, ARCHITECT, AND ENGINEER OF RECORD. CONTRACTOR ALSO TO VERIFY RAIL ATTACHMENT LOCATIONS AND LOADS WITH MANUFACTURER. (ASSUMED RAIL LOAD HAS BEEN DESIGNED FOR 725# TENSION)

NOTE: FOUNDATION DESIGN BASED ON INSTALLATION OF AGGREGATE PIERS IN ACCORDANCE WITH RECOMMENDATIONS OF GEOTECHNICAL ENGINEER. GEOTECHNICAL ENGINEER SHALL INSPECT AND APPROVE ALL SOIL CONDITIONS PRIOR TO FORMING FOUNDATIONS

Legend

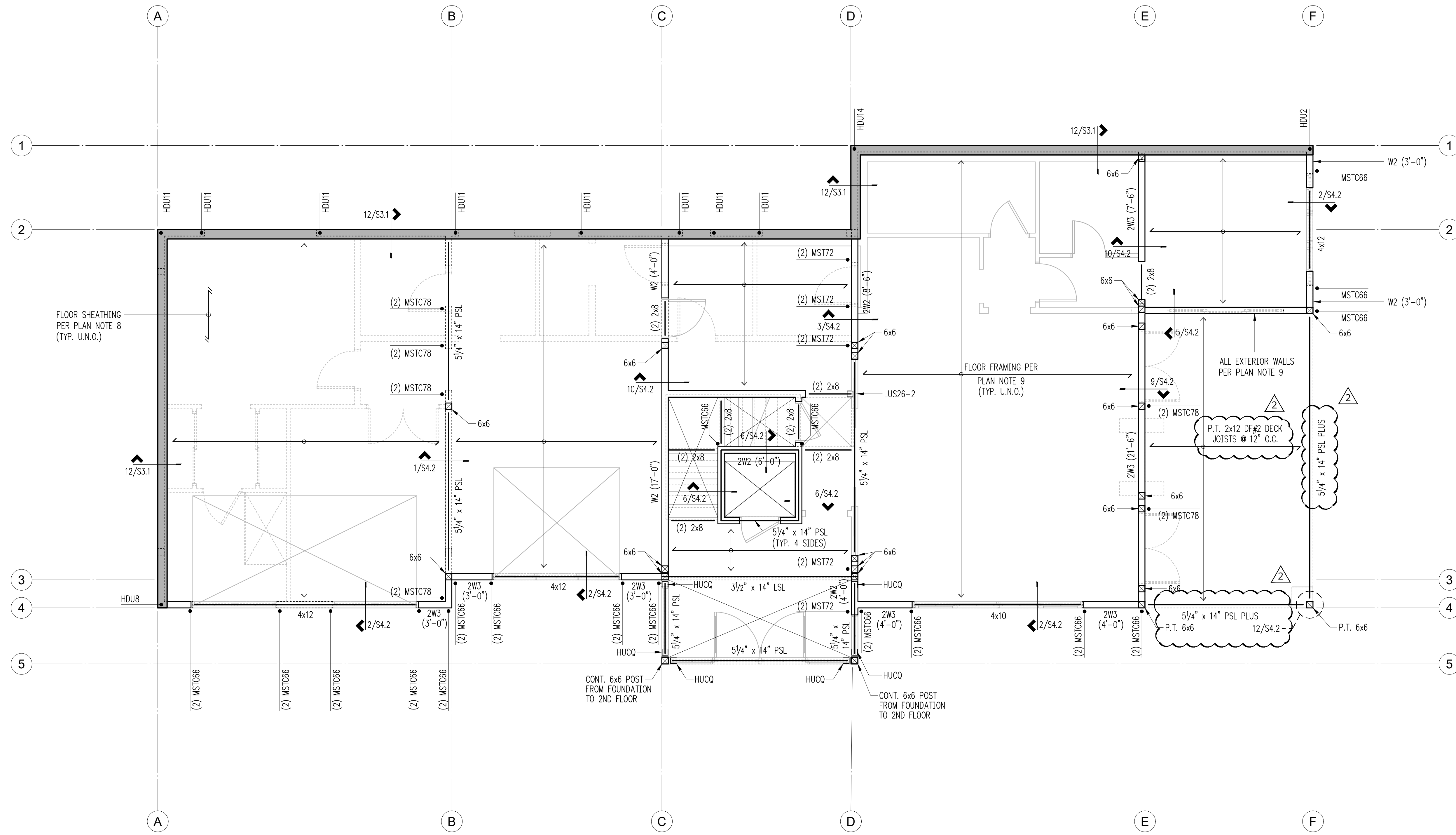
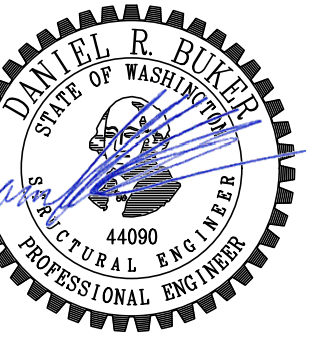
- (N) CONCRETE WALL ABOVE THIS LEVEL
- (N) CONCRETE FOOTING
- (N) SPAN DIRECTION
- EXTENT OF SPAN
- JOIST or BEAM HANGER
- PROVIDE HU HANGER u.n.o.
- HD HOLDOWN TYPE

No.	Date	Issue
	7/26/17	Permit
1	3/9/18	Corrections
2	6/13/18	Corrections

Sheet Contents
Basement / Foundation Plan

Sheet No.

S2.0



First Floor Framing Plan

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

Plan Notes

- REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS (S1.1).
- REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS UNLESS SPECIFICALLY NOTED ON STRUCTURAL PLANS.
- PROVIDE DRAINAGE BEHIND ALL FOUNDATION WALLS.
- REINFORCE FOOTING AND WALL CORNERS AND INTERSECTIONS PER 6/S3.1.
- "HDU_" REFERS TO HOLDOWNS PER 8/S3.1
- REFER 9/S3.1 WHERE PIPES PENETRATE FOUNDATION.
- "W#" REFERS TO SHEARWALL TYPE PER 3/S4.1 & 7/S4.1. ALL OTHER NON-DESIGNATED EXTERIOR WALLS SHALL BE SHEARWALL TYPE W6. WHERE INDICATED, "(X-X)" REFERS TO MINIMUM SHEARWALL LENGTH. COORDINATE ACTUAL LENGTH WITH ARCHITECTURAL.
- FLOOR SHEATHING SHALL BE 3/4" T&G PLYWOOD SHEATHING WITH 48/24 SPAN RATING. NAIL FRAMED PANEL EDGES W/ 8d COMMON (0.131"dia. x 2 1/2") @ 6"oc, FIELD @ 12"oc. (REFER TO 9/S4.1)
- FLOOR FRAMING TO BE 14" TJI/230 @ 16"oc (U.N.O.)
- "MSTC66" & "CS16" REFER TO 60" LONG HOLDOWNS PER 11/S4.2 & 7/S4.2 RESPECTIVELY.

Legend

- STRUCTURAL WOOD WALL or POST BELOW THIS LEVEL
- STRUCTURAL WOOD WALL or POST ABOVE THIS LEVEL
- CONCRETE WALL ABOVE THIS LEVEL
- SPAN DIRECTION
- EXTENT OF SPAN
- JOIST or BEAM HANGER
- HOLDOWN TYPE
- BLOCK DIAPHR. 2X'S LAID FLAT @ ALL PANEL EDGES. 8D @ 4"OC @ ALL PANEL EDGES & 12"OC IN FIELD. (REFER TO 9/S4.1)

East Mercer - Parcel 3

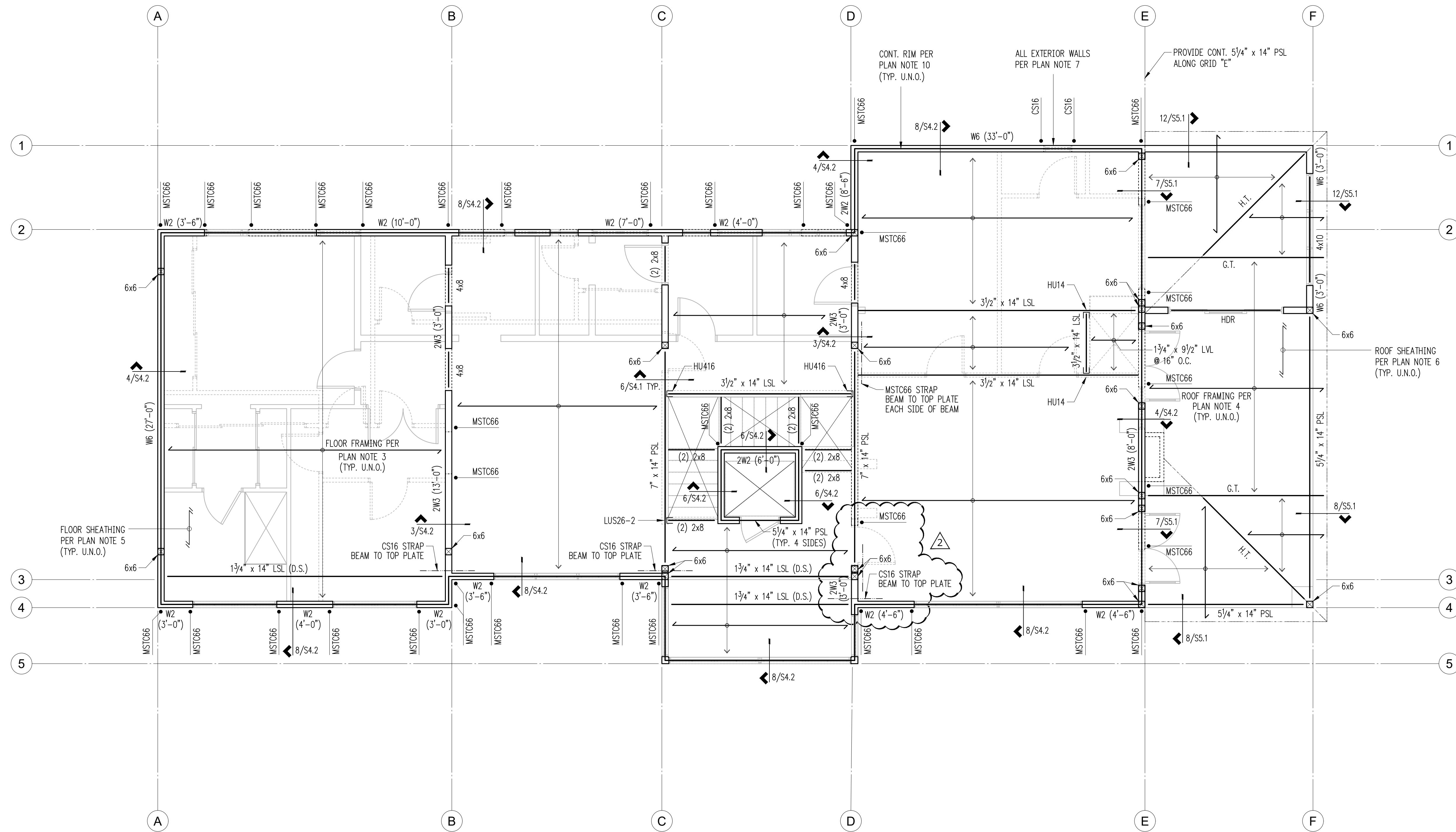
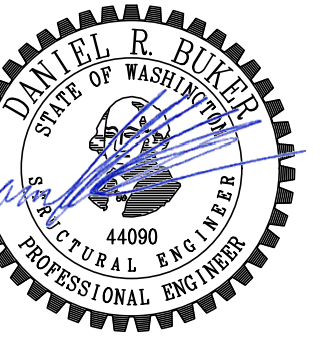
E Mercer Way
Mercer Island, WA, 98040

No.	Date	Issue
	7/26/17	Permit
1	3/9/18	Corrections
2	6/13/18	Corrections

Sheet Contents
First Floor Framing Plan

Sheet No.

S2.1



East Mercer - Parcel 3

E Mercer Way
Mercer Island, WA, 98040

Second Floor Framing Plan

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

Plan Notes

- REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS (S1.1).
- REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS UNLESS SPECIFICALLY NOTED ON STRUCTURAL PLANS.
- FLOOR FRAMING TO BE 14" TJI/230 @ 16"oc (U.N.O.)
- ROOF FRAMING (where occurs) SHALL BE PRE-MANUFACTURED ROOF TRUSSES @ 24"oc. (Truss design by others).
- FLOOR SHEATHING SHALL BE 3/4" T&G PLYWOOD SHEATHING WITH 48/24 SPAN RATING. NAIL FRAMED PANEL EDGES W/ 8d COMMON (0.131"dia. x 2 1/2") @ 6"oc, FIELD @ 12"oc. (REFER TO 9/S4.1)
- ROOF SHEATHING SHALL BE 5/8" CDX PLYWOOD SHEATHING WITH 40/20 SPAN RATING. NAIL FRAMED PANEL EDGES W/ 8d COMMON (0.131"dia. x 2 1/2") @ 6"oc, FIELD @ 12"oc. (REFER TO 9/S4.1)
- "W#" REFERS TO SHEARWALL TYPE PER 3/S4.1 & 7/S4.1. ALL OTHER NON-DESIGNATED EXTERIOR WALLS SHALL BE SHEARWALL TYPE W6. WHERE INDICATED, "(X-X)" REFERS TO MINIMUM SHEARWALL LENGTH. COORDINATE ACTUAL LENGTH WITH ARCHITECTURAL.
- "MSTC66" & "CS16" REFER TO HOLDDOWNS PER 11/S4.2 & 7/S4.2 RESPECTIVELY.
- PROVIDE TOP PLATE SPLICES PER 1/S4.1
- AT EXTERIOR WALLS, PROVIDE CONTINUOUS FLUSH FRAMED 3/2" x 14" LSL STRUCTURAL RIM JOIST, UNLESS NOTED OTHERWISE. RIM JOISTS OVER OPENINGS SHALL BE CONTINUOUS w/ NO SPLICES. REFER TO 4/S4.2 & 8/S4.2.
- REFER TO 11/S4.1 AT SHEARWALL INTERSECTIONS.
- "D.S." REFERS TO DRAG STRUT. NAIL FLOOR SHEATHING TO DRAG STRUT WITH (2) ROWS OF 8d COMMON (0.131"dia. x 2 1/2") @ 4"oc. (REFER TO 5/S4.1)

Legend

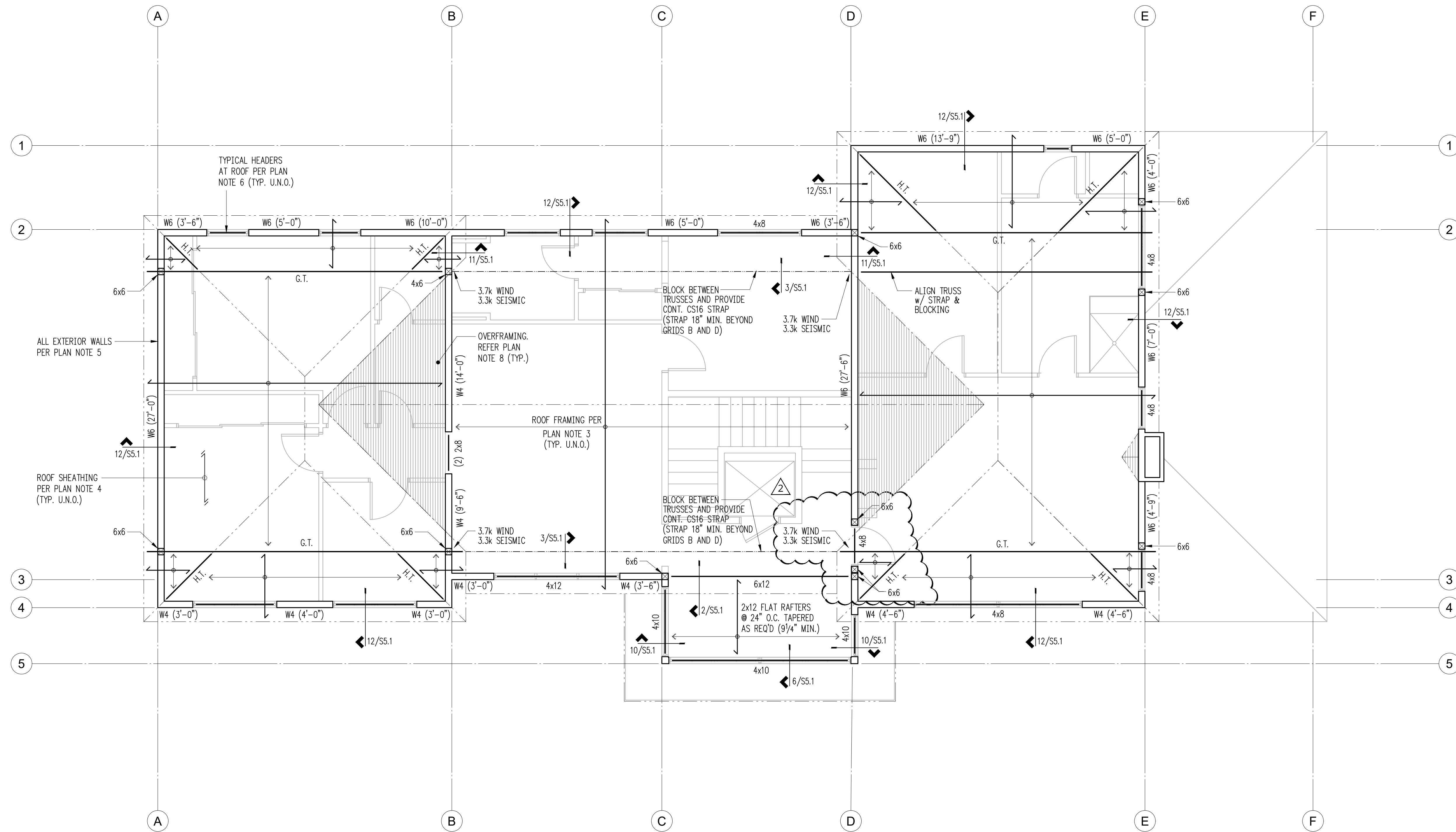
- | | | | | | |
|--|---|--|-------------------|--|--|
| | STRUCTURAL WOOD WALL or POST BELOW THIS LEVEL | | SPAN DIRECTION | | BLOCK DIAPH. 2X'S LAID FLAT @ ALL PANEL EDGES. 8d @ 4"oc @ ALL PANEL EDGES & 12"oc IN FIELD. (REFER TO 9/S4.1) |
| | STRUCTURAL WOOD WALL or POST ABOVE THIS LEVEL | | EXTENT OF SPAN | | JOIST or BEAM HANGER |
| | HOLDOWN TYPE | | G.T. GIRDER TRUSS | | H.T. HIP TRUSS |

No.	Date	Issue
	7/26/17	Permit
1	3/9/18	Corrections
2	6/13/18	Corrections

Sheet Contents
Second Floor Framing Plan

Sheet No.

S2.2



Roof Framing Plan

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

Plan Notes

- REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS (S1.1).
- REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS UNLESS SPECIFICALLY NOTED ON STRUCTURAL PLANS.
- ROOF FRAMING SHALL BE PRE-MANUFACTURED ROOF TRUSSES @ 24"oc. (TRUSS DESIGN BY OTHERS).
- ROOF SHEATHING SHALL BE 5/8" CDX PLYWOOD SHEATHING WITH 40/20 SPAN RATING. NAIL FRAMED PANEL EDGES W/ 8d COMMON (0.131"dia. x 2 1/2") @ 6"oc, FIELD @ 12"oc. (REFER TO 9/S4.1)
- "W#" REFERS TO SHEARWALL TYPE PER 3/S4.1 & 7/S4.1. ALL OTHER NON-DESIGNATED EXTERIOR WALLS SHALL BE SHEARWALL TYPE W6. WHERE INDICATED, "(X-X)" REFERS TO MINIMUM SHEARWALL LENGTH. COORDINATE ACTUAL LENGTH WITH ARCHITECTURAL.
- ALL HEADERS AT ROOF NOT NOTED OTHERWISE ON PLAN SHALL BE (2) 2X8. (REFER TO DETAIL 2/S4.1)
- PROVIDE TOP PLATE SPLICES PER 1/S4.1
- WHERE OVERFRAMING IS INDICATED, OVERFRAME WITH 2x6 @ 24" O.C. w/ 4'-0" MAX. SPAN. (REFER TO DETAIL 4/S5.1)

Legend

- STRUCTURAL WOOD WALL or POST BELOW THIS LEVEL
- SPAN DIRECTION
- EXTENT OF SPAN
- JOIST or BEAM HANGER
- G.T. GIRDER TRUSS
- H.T. HIP TRUSS

East Mercer - Parcel 3

E Mercer Way
Mercer Island, WA, 98040

No.	Date	Issue
	7/26/17	Permit
1	3/9/18	Corrections
2	6/13/18	Corrections

Sheet Contents
Roof Framing Plan

Sheet No.

S2.3

REINFORCING SPLICE AND DEVELOPMENT LENGTH SCHEDULE

FOR $F_c = 2500$ psi, GRADE 60 REINFORCING

I MINIMUM STRAIGHT DEVELOPMENT LENGTH (ℓ_d)

BAR SIZE	TOP BARS	OTHER BARS
#3	23"	18"
#4	31"	24"
#5	40"	30"
#6	47"	36"
#7	68"	53"
#8	78"	60"
#9	88"	68"
#10	99"	77"
#11	110"	85"

II MINIMUM LAP SPLICE LENGTHS (ℓ_s)

BAR SIZE	TOP BARS	OTHER BARS
#3	31"	23"
#4	41"	31"
#5	51"	40"
#6	62"	47"
#7	89"	68"
#8	102"	78"
#9	114"	88"
#10	130"	99"
#11	143"	110"

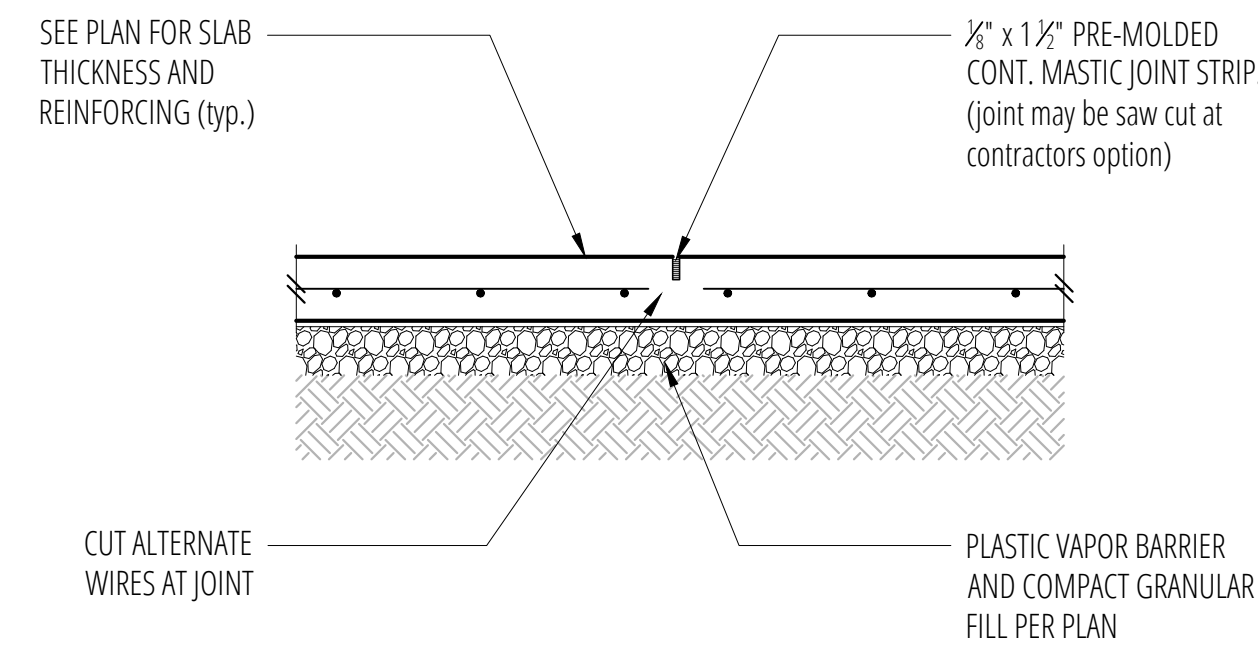
TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" DEPTH OF CONCRETE CAST BELOW THEM.

IF CLEAR CONCRETE COVER IS NOT GREATER THAN THE DIAMETER OF THE BAR, OR THE CENTER TO CENTER SPACING IS NOT GREATER THAN 3 BAR DIAMETERS, THEN LENGTHS SHALL BE INCREASED BY 50%

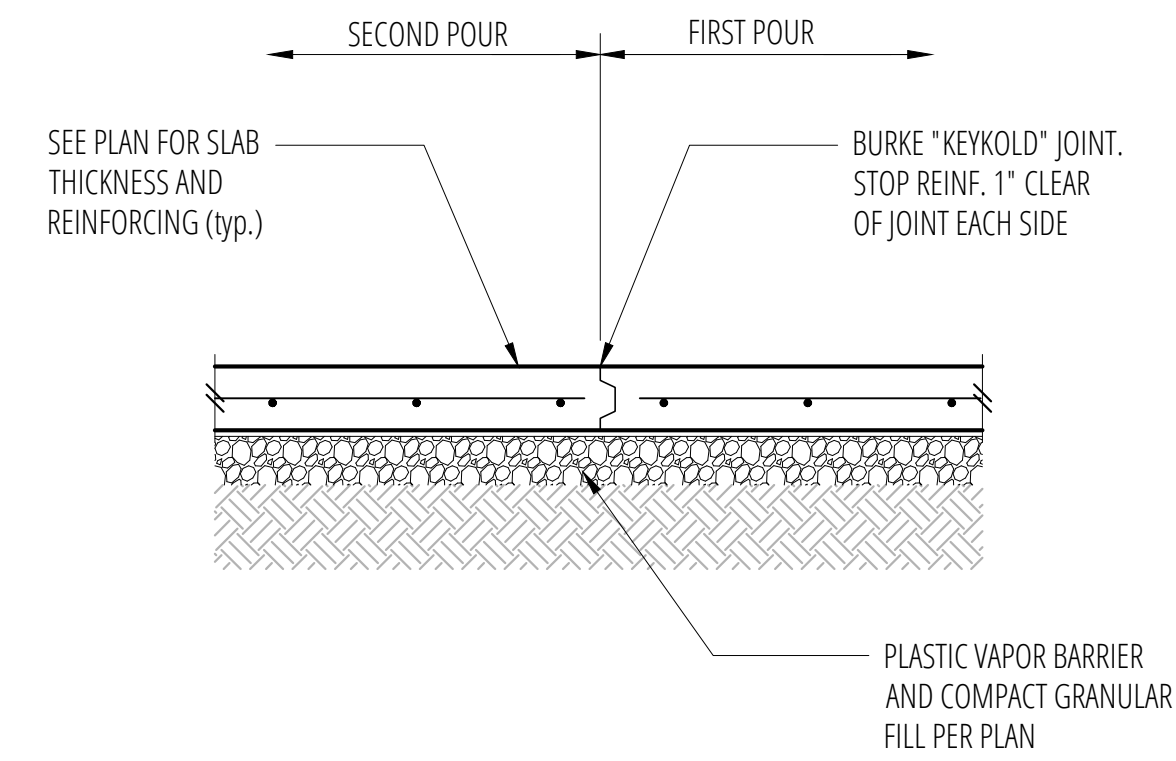
III MINIMUM EMBEDMENT LENGTHS (ℓ_{dh}) FOR STANDARD END HOOKS

BAR SIZE	LENGTH
#3	7"
#4	9"
#5	11"
#6	13"
#7	14"
#8	17"
#9	19"
#10	21"
#11	24"

- SIDE COVER MUST BE EQUAL TO OR GREATER THAN 2 1/2"
- END COVER FOR 90° HOOKS MUST BE EQUAL TO OR GREATER THAN 2"

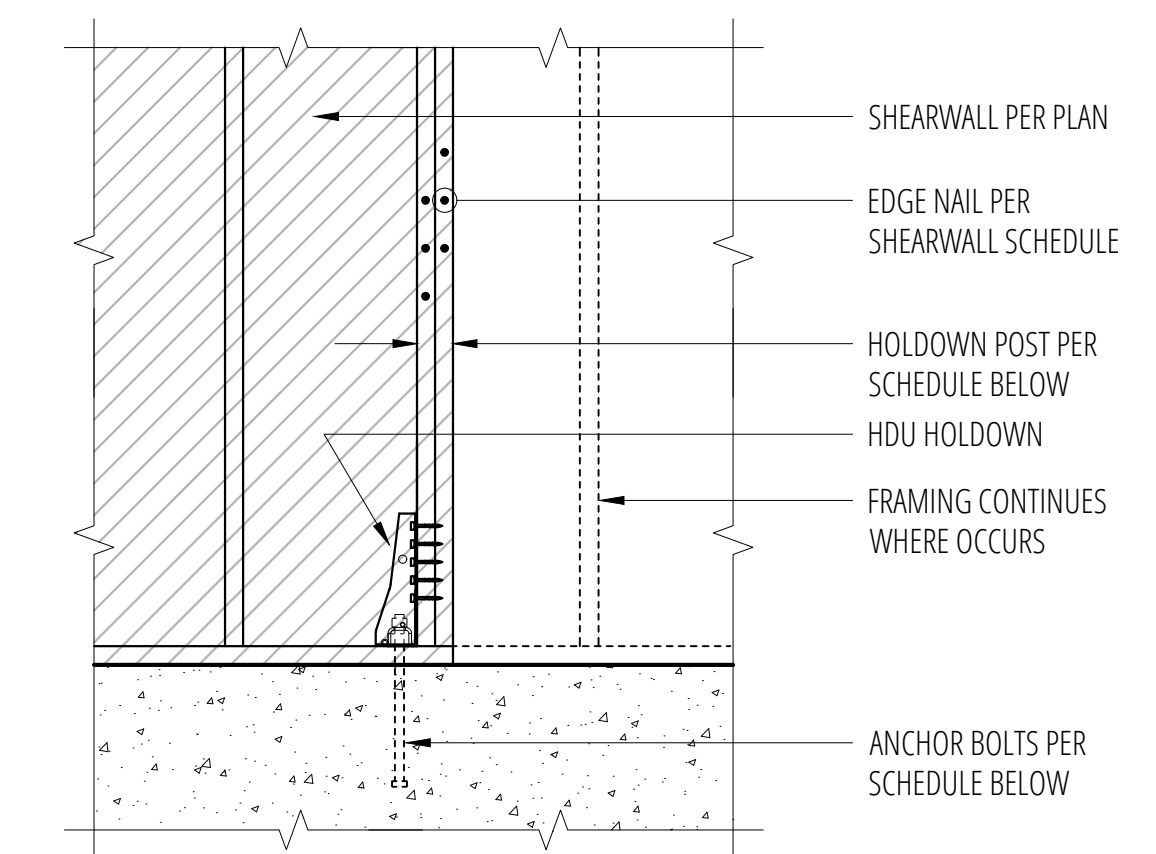


CONTROL JOINT



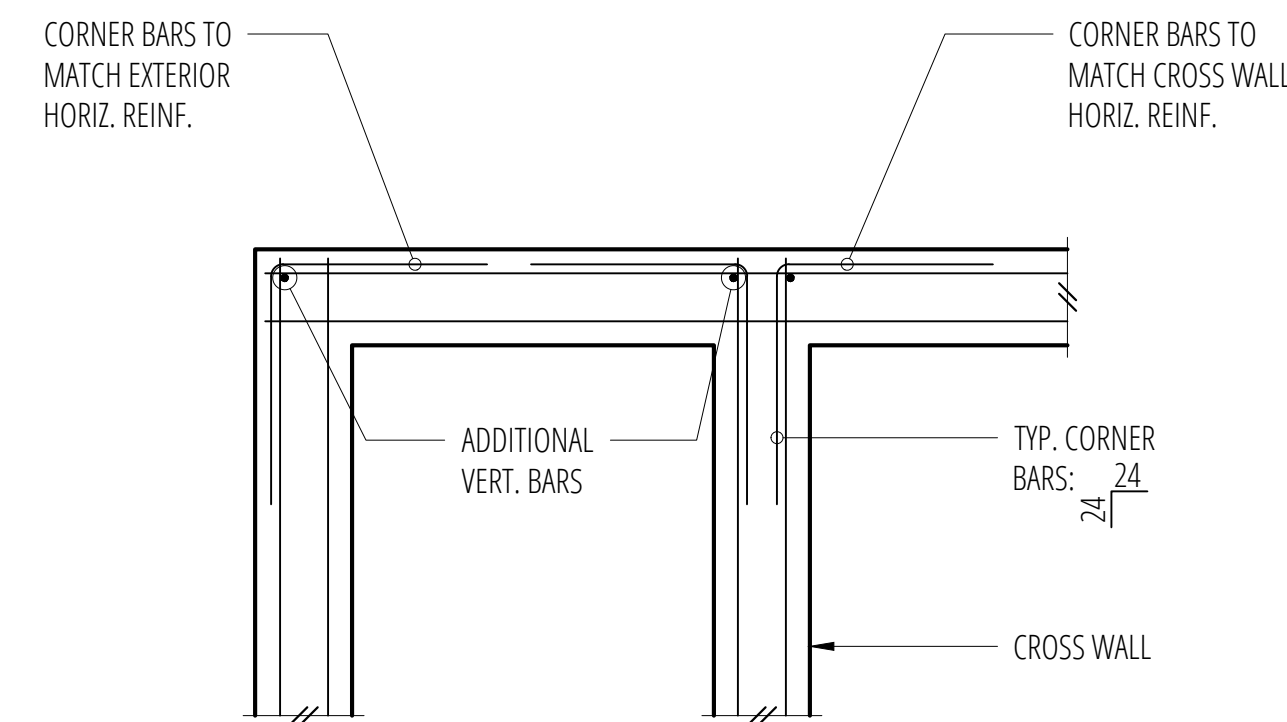
CONSTRUCTION JOINT

PROVIDE CONTROL OR CONSTRUCTION JOINTS IN SLABS ON GRADE TO BREAK UP SLAB INTO RECTANGULAR AREAS OF 400 SQUARE FEET OR LESS. AREAS TO BE APPROX. SQUARE AND HAVE NO ACUTE ANGLES. JOINT LOCATIONS TO BE APPROVED BY THE ARCHITECT.

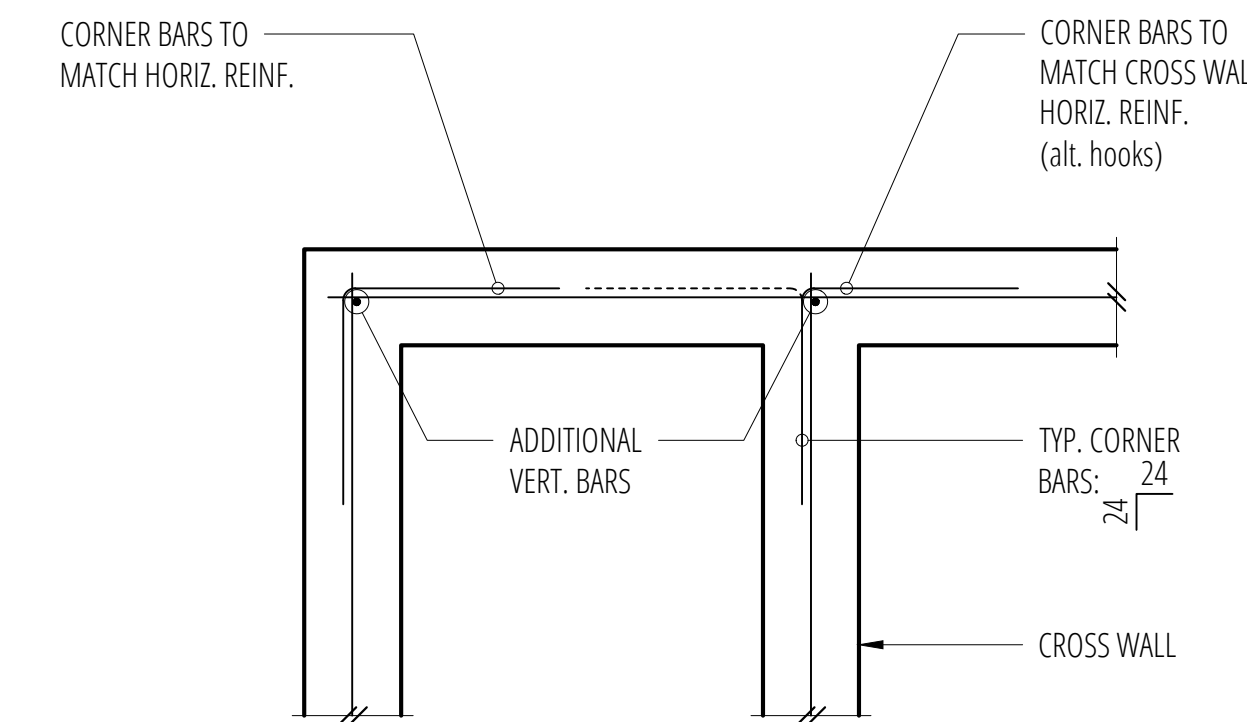


2 Typical Slab Joints

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



DOUBLE CURTAIN



SINGLE CURTAIN

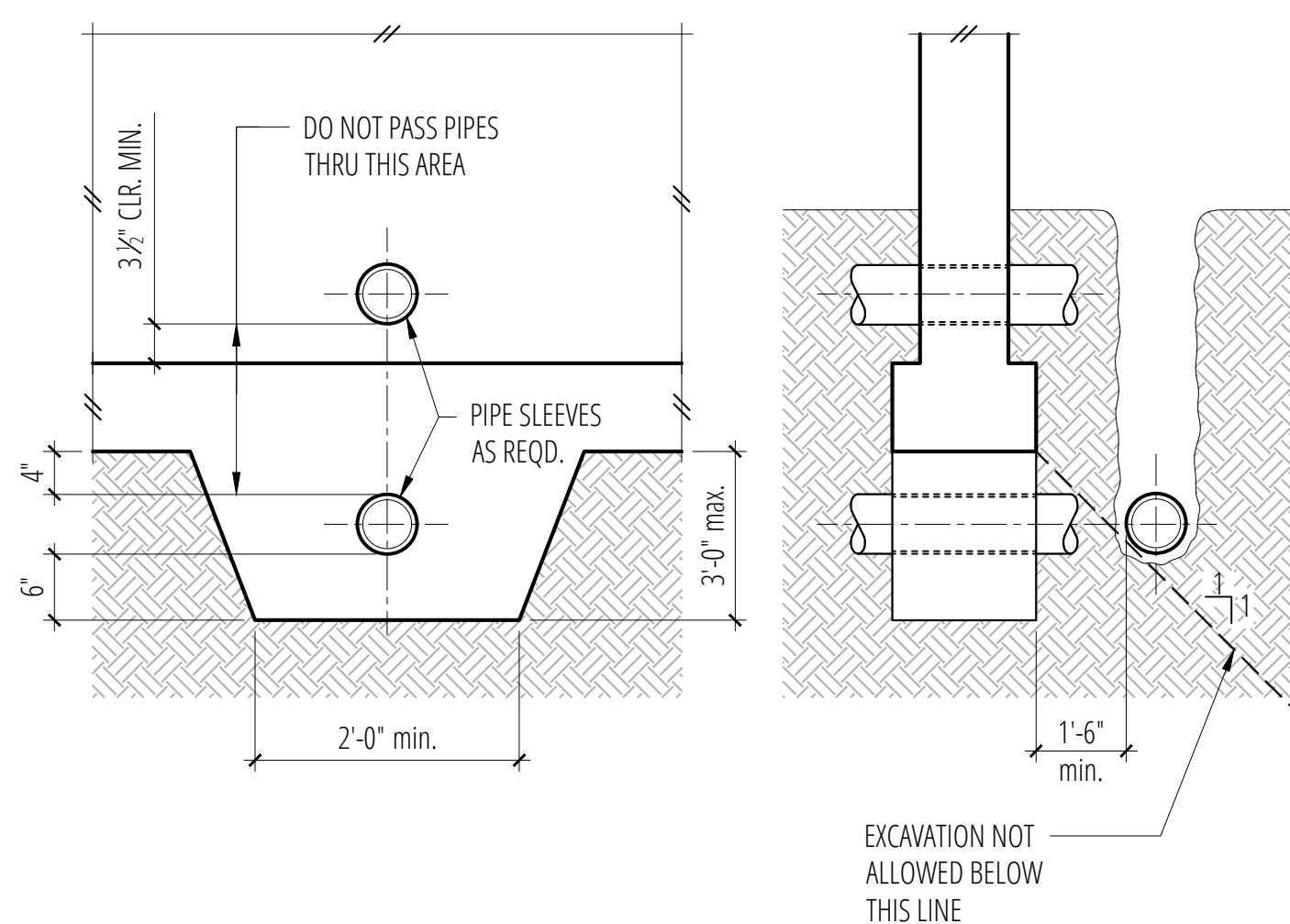
Holdown Schedule

Plan Mark	Screws	Anchor Bolt Ⓣ	A.B. Embed	Holdown Post Ⓛ		Capacity #
				IF 2x4	IF 2x6	
HDU2-SDS2.5	(6) SDS 1/2" x 2 1/2"	SSTB16	12 1/2"	(2) 2x4	4x6	2215/3075
HDU4-SDS2.5	(10) SDS 1/2" x 2 1/2"	SB 3/8 x 24	18"	4x4	4x6	4565
HDU5-SDS2.5	(14) SDS 1/2" x 2 1/2"	SB 3/8 x 24	18"	4x4	4x6	5645
HDU8-SDS2.5	(20) SDS 1/2" x 2 1/2"	SB 3/8 x 24	18"	4x4	4x6	6970
HDU11-SDS2.5	(30) SDS 1/2" x 2 1/2"	SB 1 x 30	24"	4x8	6x6	9535
HDU14-SDS2.5	(36) SDS 1/2" x 2 1/2"	SB 3/8 x 30	24"	4x8	6x6	10770
HD19	(5) 1" THRU BOLTS	PAB10H	21"	N/A	6x6	26690+

- MINIMUM SIZE OF POST AT END OF WALL UNLESS NOTED OTHERWISE ON FRAMING PLANS.
- "SSTB" & "SB" REFER TO ANCHOR BOLTS BY SIMPSON STRONG-TIE. INSTALL PER MANUFACTURER.

5 Typical Lap Splice & Development Length

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

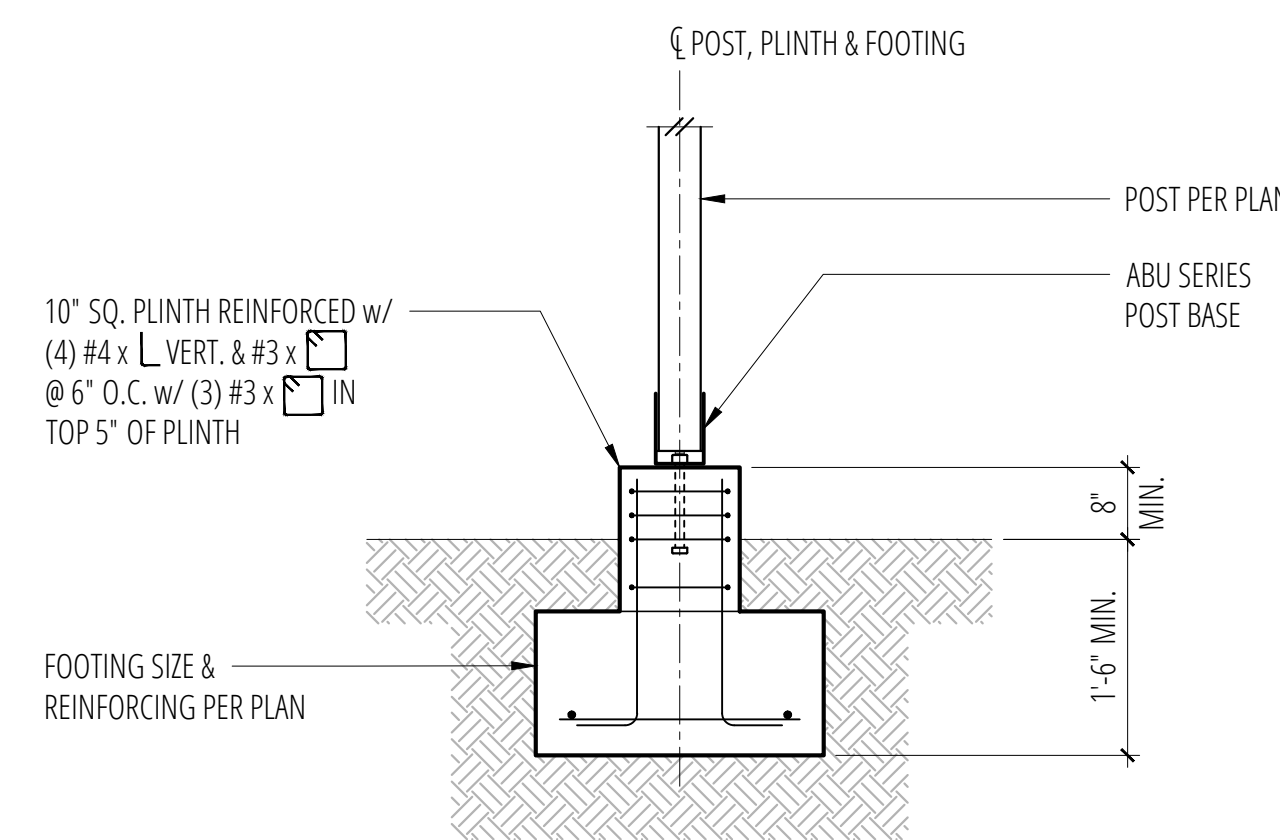


9 Pipe and Trench Locations

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

6 Typical Corner Bars at Concrete Walls and Footings

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

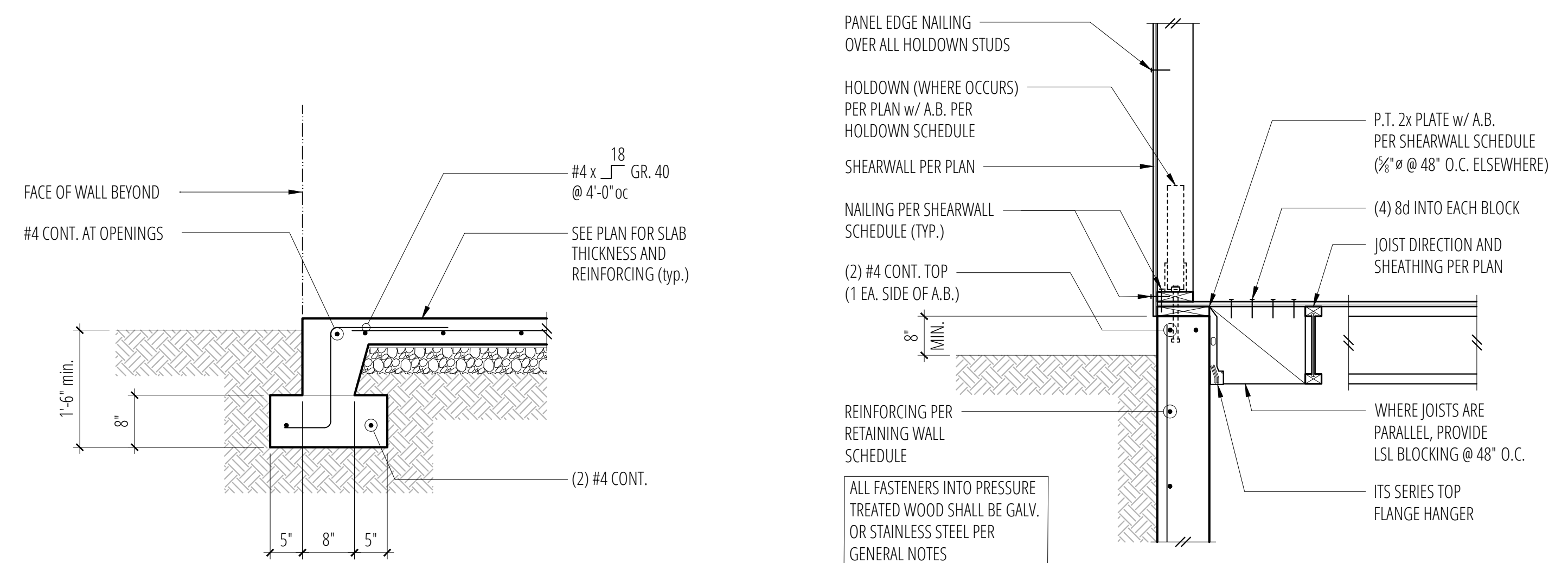


10 Post or Canopy Footing

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

8 Typical HDU Holdown

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



11 Typical Turned-Down Slab Edge

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

12 Exterior Framing at Basement (Dropped Joist)

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

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Concrete Details

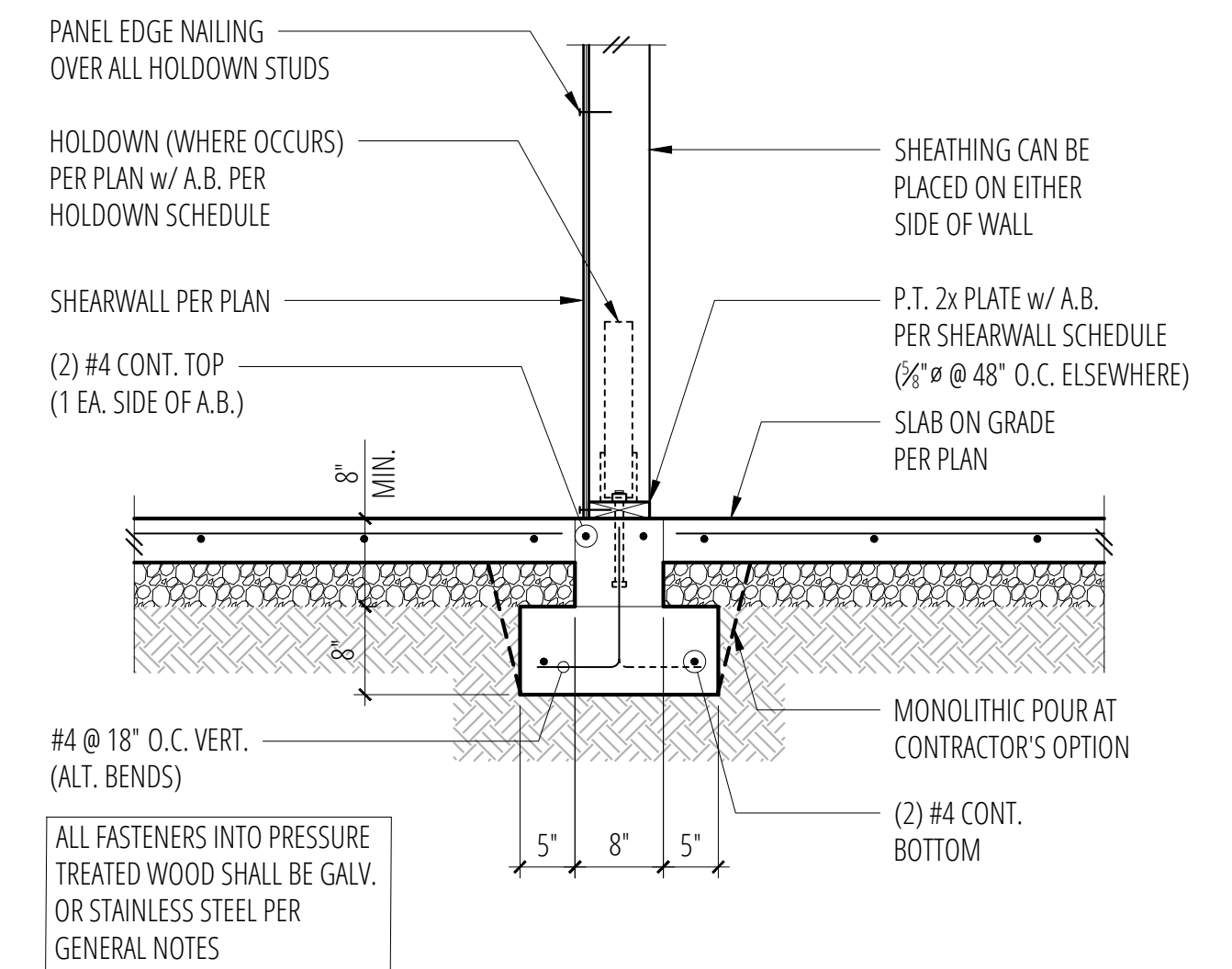
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1 SCALE: 3/4"=1'-0"

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

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

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

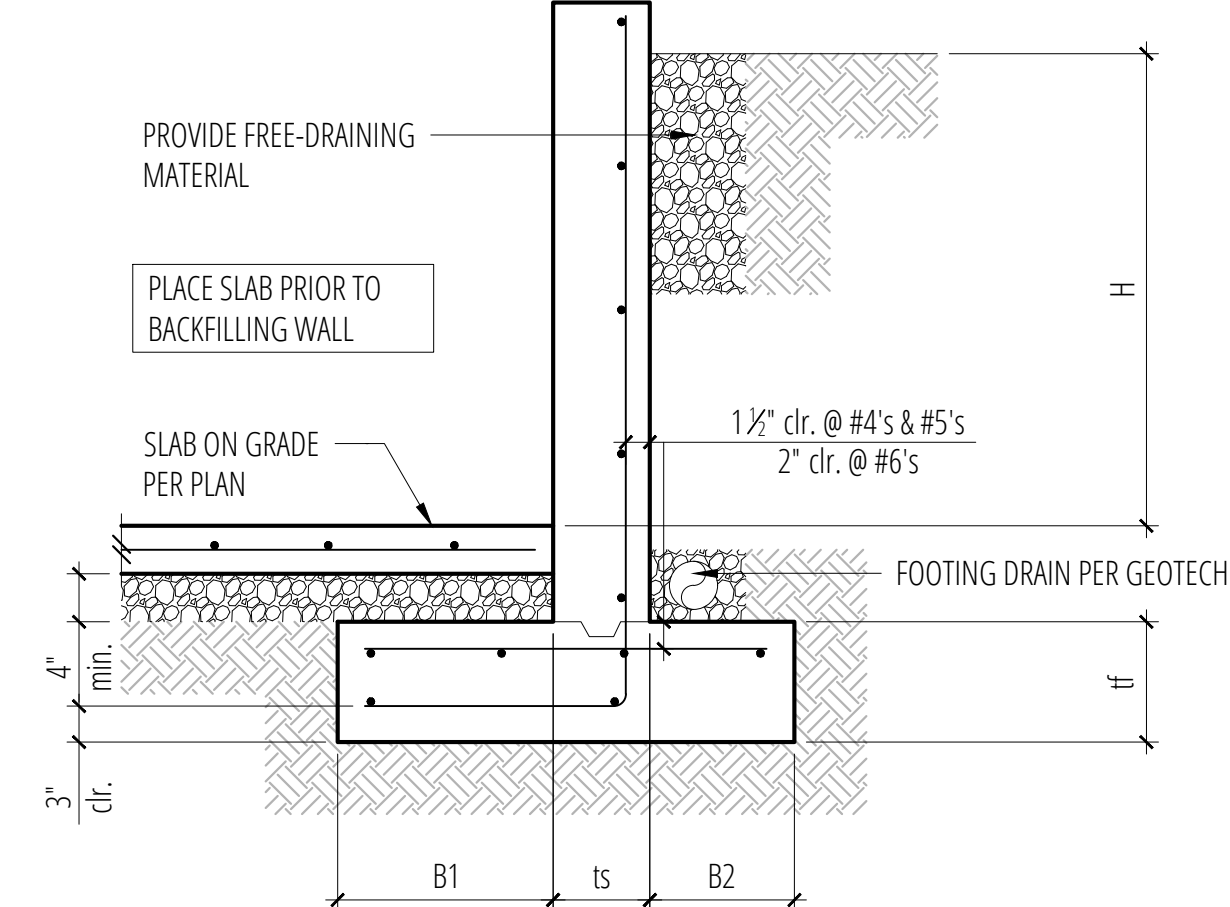
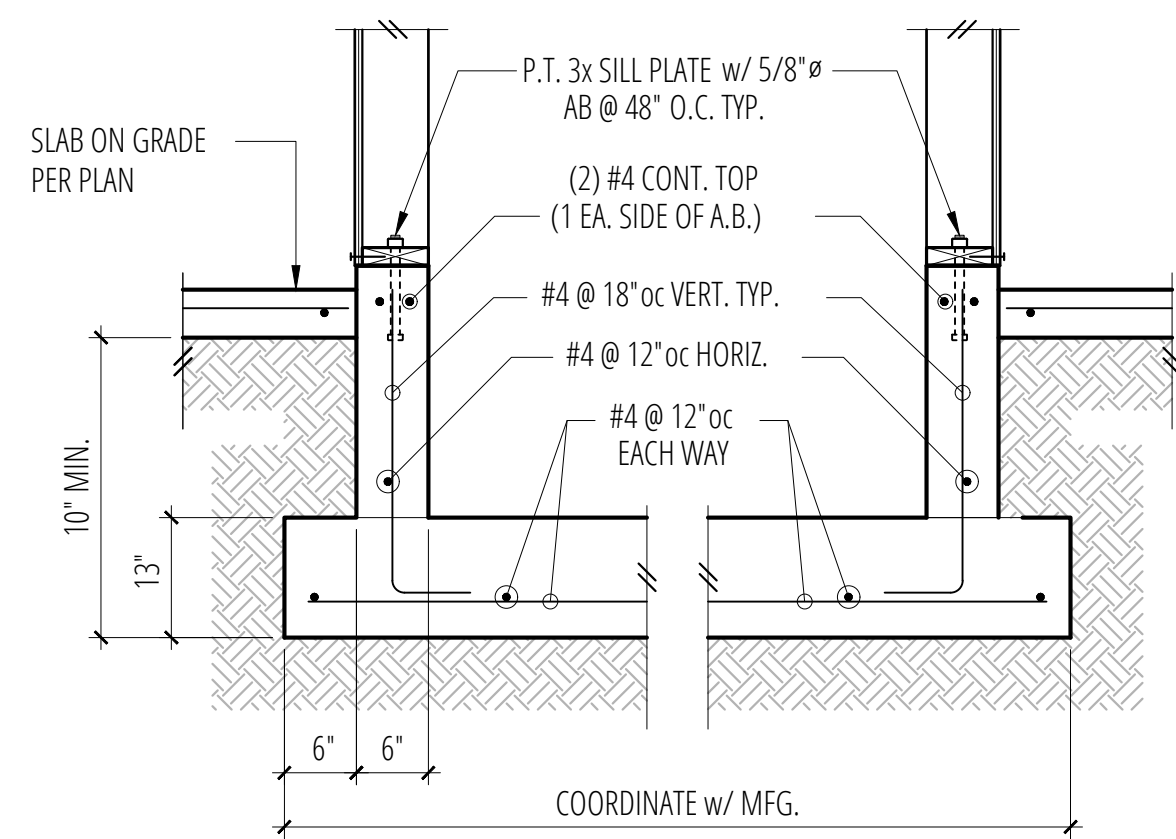
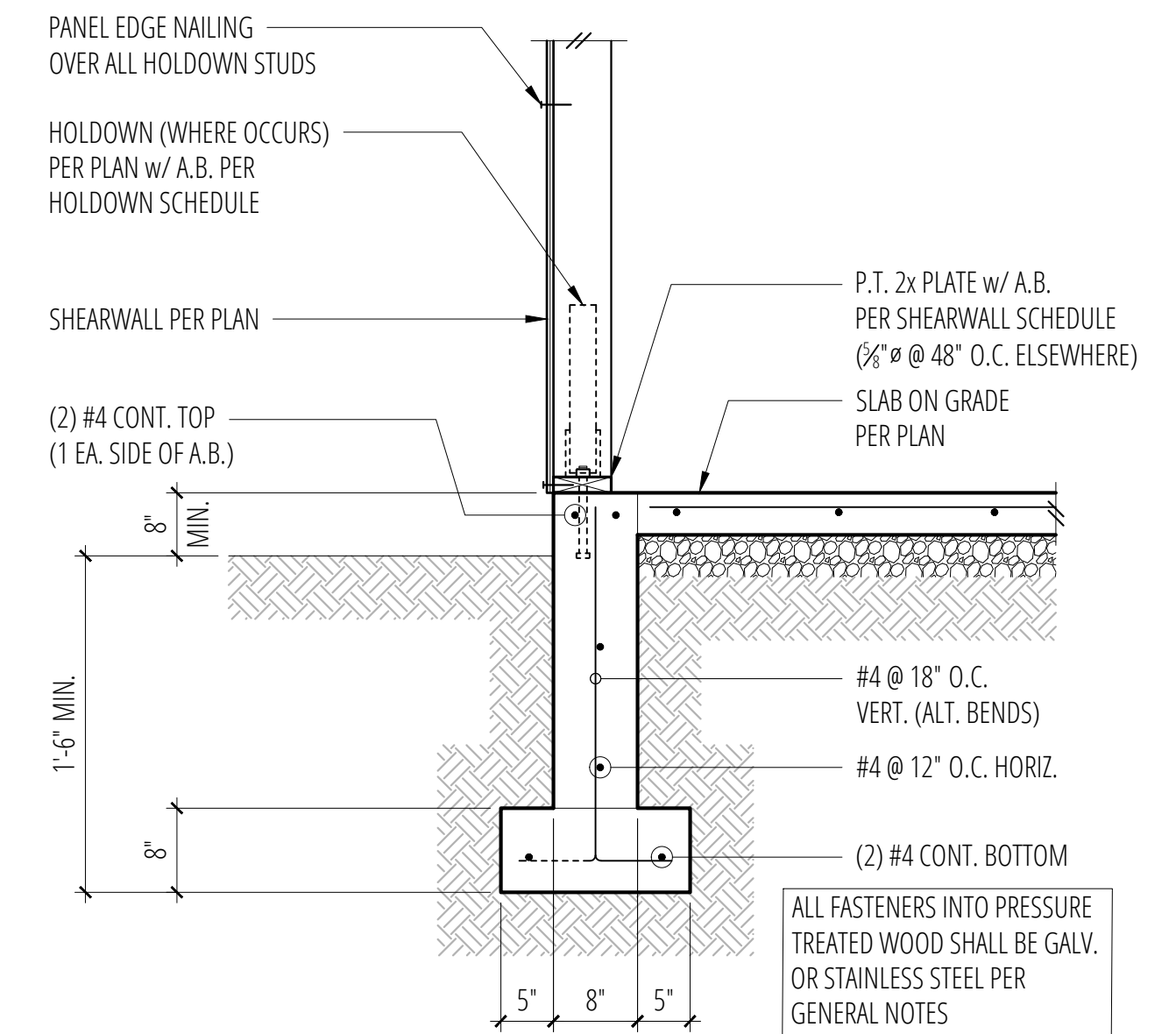


5 SCALE: 3/4"=1'-0"

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

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

8 Interior Wall w/ Stem Wall & Footing
SCALE: 3/4"=1'-0"



RETAINING WALL SCHEDULE w/ SLAB

H (ft.)	B1	ts	B2	tf	STEM REINFORCING		FOOTING REINFORCING	
					VERT.	HORIZ.	TOP	LONGIT.
3'-0"	5'	8"	5'	8"	#4 @ 18" O.C.	#4 @ 12" O.C.	-	(2) #4
4'-0"	1'-0"	8"	5'	8"	#4 @ 18" O.C.	#4 @ 12" O.C.	-	(2) #4
5'-0"	1'-6"	8"	5'	10"	#4 @ 18" O.C.	#4 @ 12" O.C.	-	(3) #4
6'-0"	2'-3"	8"	5'	10"	#4 @ 18" O.C.	#4 @ 12" O.C.	-	(4) #4
7'-0"	2'-6"	8"	9'	10"	#4 @ 18" O.C.	#4 @ 9" O.C.	-	(5) #4
8'-0"	2'-9"	8"	1'-0"	12"	#5 @ 12" O.C.	#4 @ 12" O.C.	#5 @ 18" O.C.	(5) #5
9'-0"	3'-3"	8"	1'-3"	13"	#5 @ 9" O.C.	#4 @ 9" O.C.	#4 @ 18" O.C.	(6) #5
10'-0"	4'-3"	10"	1'-6"	15"	#6 @ 9" O.C.	#4 @ 9" O.C.	#4 @ 18" O.C.	(7) #5
11'-0"	4'-6"	10"	2'-0"	15"	#6 @ 9" O.C.	#4 @ 9" O.C.	#4 @ 18" O.C.	(8) #5

9 Elevator Pit
SCALE: 3/4"=1'-0"

10 Retaining Wall Schedule
SCALE: 3/4"=1'-0"

12 Exterior Wall w/ Slab on Grade
SCALE: 3/4"=1'-0"

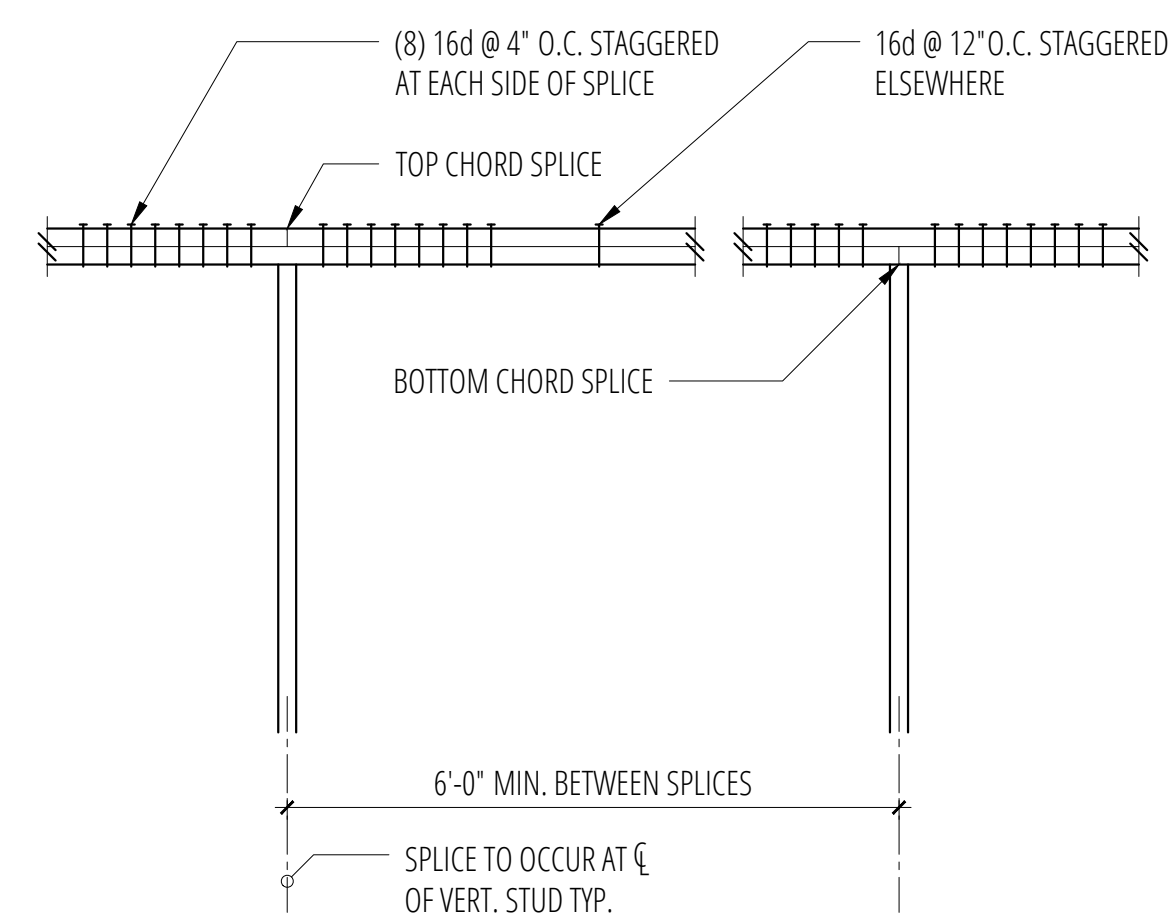
East Mercer - Parcel 3

E Mercer Way
Mercer Island, WA, 98040

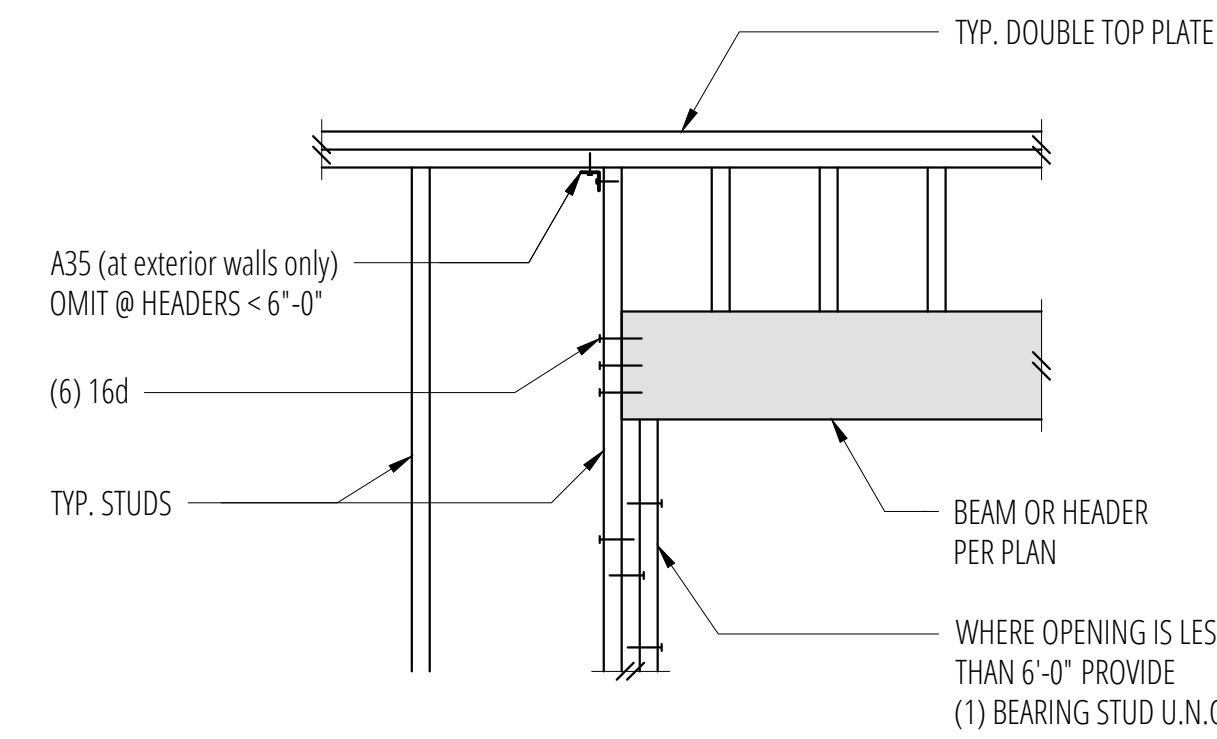
No.	Date	Issue
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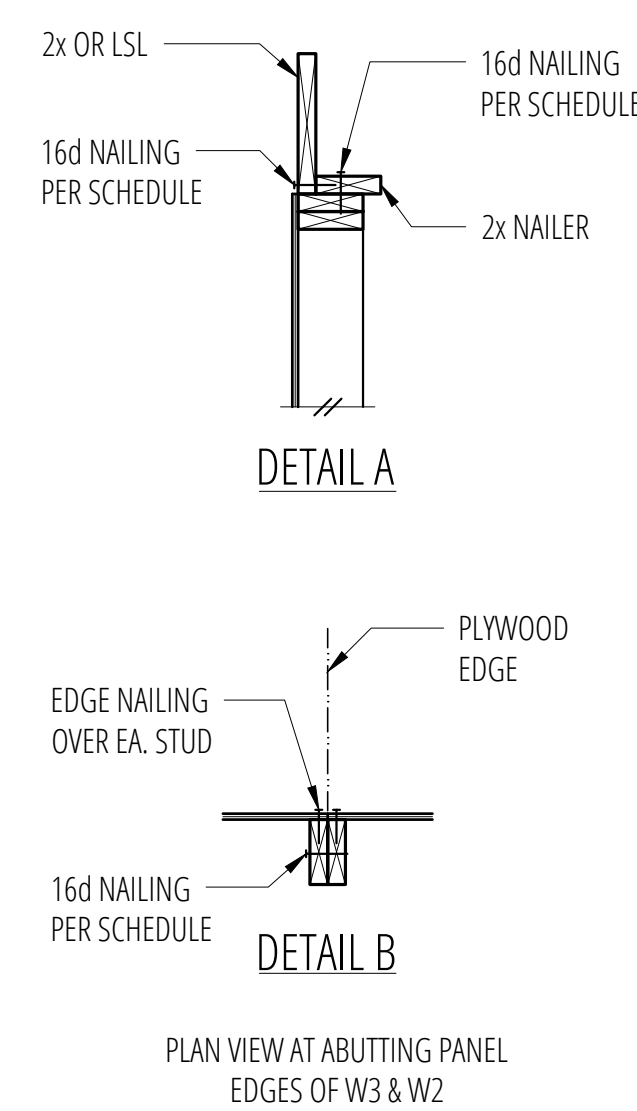
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1 Typical Top Plate Splice
SCALE: 3/4"=1'-0"



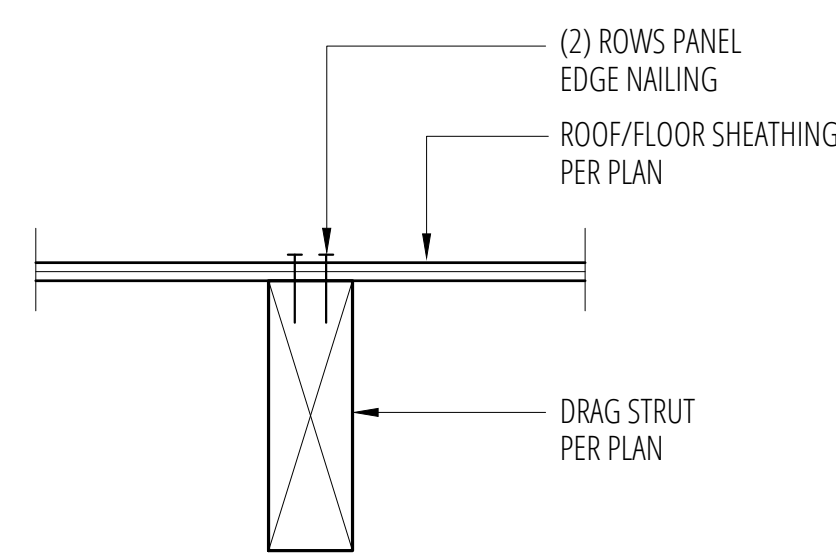
2 Typical Header Support
SCALE: 3/4"=1'-0"



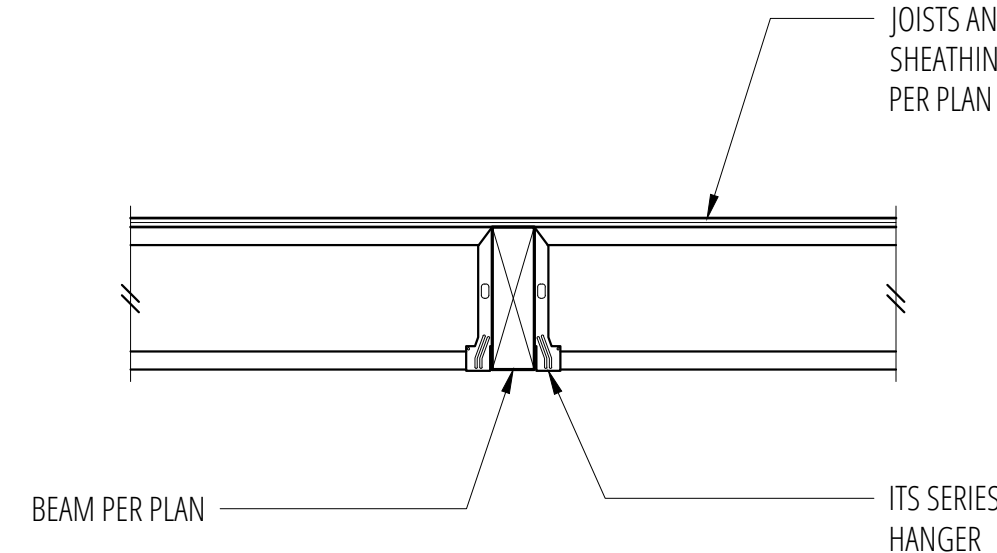
3 Shearwall Schedule
SCALE: N.T.S.

MARK	SHEATHING	PANEL EDGE NAILING	TOP PLATE CONNECTION		BASE PLATE CONNECTION	
			IF TJI	IF 2x OR LSL ⑨	AT WOOD	AT CONCRETE
W6	1/2" CDX PLYWOOD	8d @ 6" OC	16d @ 6" OC	A35 @ 24" OC ⑩	16d @ 6" OC	3/4" # A.B. @ 48" OC
W4	1/2" CDX PLYWOOD	8d @ 3" OC	16d @ 4" OC	A35 @ 16" OC ⑩	16d @ 3" OC ⑪	3/4" # A.B. @ 32" OC
W3 ④	1/2" CDX PLYWOOD	8d @ 3" OC	(2) ROWS 16d @ 6" OC	A35 @ 12" OC ⑩	16d @ 3" OC ⑪	3/4" # A.B. @ 16" OC
W2 ④	1/2" CDX PLYWOOD	8d @ 2" OC	(2) ROWS 16d @ 4 1/2" OC	A35 @ 9" OC ⑩	(2) ROWS 16d @ 4 1/2" OC ⑫	3/4" # A.B. @ 12" OC
2W3 ⑤	1/2" CDX PLYWD. EA. SIDE	8d @ 3" OC EA. SIDE	N/A	A35 @ 6" OC	(2) ROWS 16d @ 3" OC ⑫	3/4" # A.B. @ 16" OC
2W2 ⑤	1/2" CDX PLYWD. EA. SIDE	8d @ 2" OC EA. SIDE	N/A	HGA10 @ 8" OC	(2) ROWS 16d @ 2" OC ⑫	3/4" # A.B. @ 12" OC

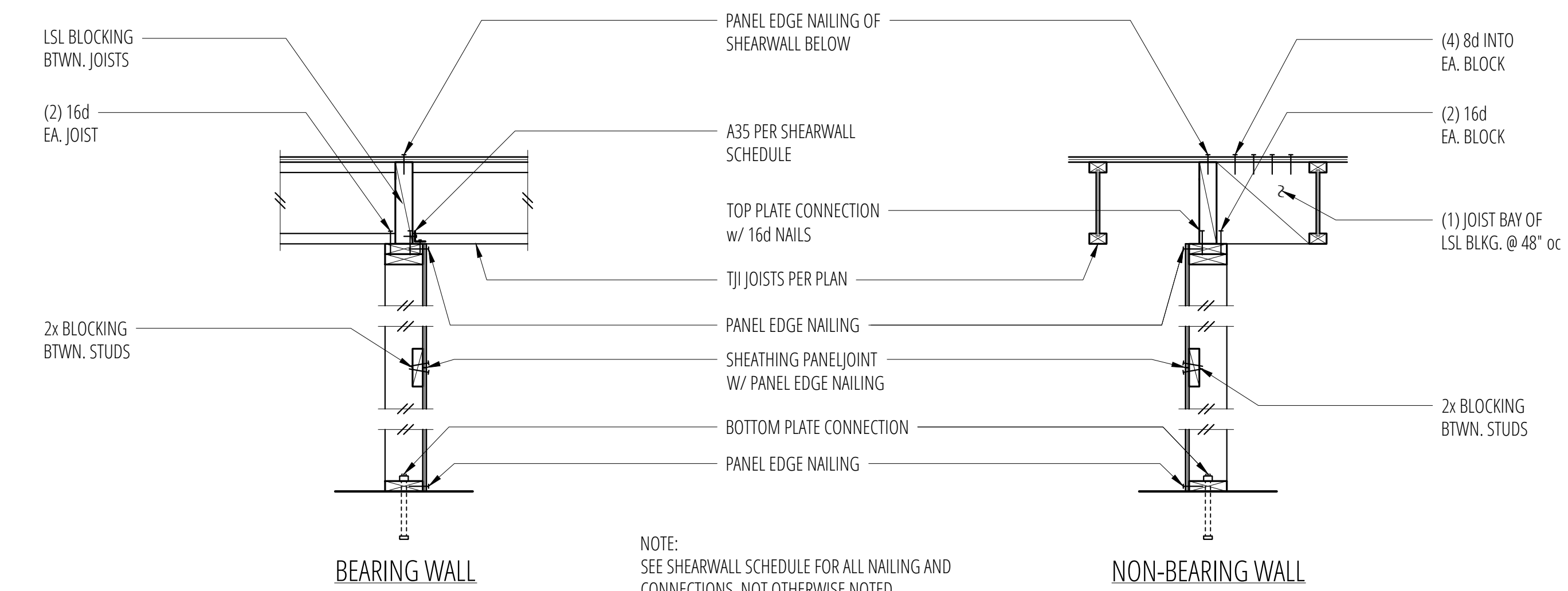
- ① BLOCK PANEL EDGES WITH 2x MIN. LAID FLAT AND NAIL PANELS TO INTERMEDIATE SUPPORTS WITH 8d @ 12" OC
- ② 8d NAILS SHALL BE 0.131" # x 2 1/2" (COMMON) - 16d NAILS SHALL BE 0.135" # x 3 1/2" (BOX)
- ③ EMBED ANCHOR BOLTS AT LEAST 7" EXPANSION BOLTS MAY BE SUBSTITUTED FOR ANCHOR BOLTS WITH 4" EMBEDMENT. ALL BOLTS SHALL HAVE 3" x 3" x 3/4" PLATE WASHERS.
- ④ 3x STUDS OR DOUBLE STUDS NAILED TOGETHER W/ BASE PLATE NAILING ARE REQUIRED AT ABUTTING PANEL EDGES OF W3 AND W2. SEE DETAIL B. WHERE 3x STUDS ARE USED FOR W2, STAGGER NAILS AT ADJOINING PANEL EDGES.
- ⑤ 3x FOUNDATION SILL PLATES ARE REQUIRED FOR 2W3 AND 2W2. 3x STUDS ARE REQUIRED AT ABUTTING PANEL EDGES AND PANEL JOINTS SHALL BE OFFSET EACH SIDE OF WALL. STAGGER NAILS AT ADJOINING PANEL EDGES. 3x STUDS, MIN., REQUIRED AT END OF SHEARWALL.
- ⑥ TWO STUDS MINIMUM ARE REQUIRED AT EACH END OF ALL SINGLE-SIDED SHEARWALLS. ALL END STUDS SHALL RECEIVE PANEL EDGE NAILING. SEE PLANS AND HOLDOWN SCHEDULE FOR ALTERNATE REQUIREMENTS.
- ⑦ ALL EXTERIOR WALLS SHALL BE W6, UNLESS NOTED OTHERWISE
- ⑧ 3/4" O.S.B. MAY BE SUBSTITUTED FOR 1/2" CDX.
- ⑨ LTP4'S MAY BE SUBSTITUTED FOR A35'S AT CONTRACTORS OPTION.
- ⑩ A 2x NAILER ATTACHED W/ BASE PLATE NAILING PER DETAIL A MAY BE SUBSTITUTED FOR A35'S AT CONTRACTORS OPTION.
- ⑪ STAGGER NAILS IN ROW W/ 1/2" MIN. OFFSET.
- ⑫ MINIMUM OFFSET BETWEEN ROWS 1/2", AND MINIMUM RIM OR JOIST 3 1/2" WIDE.



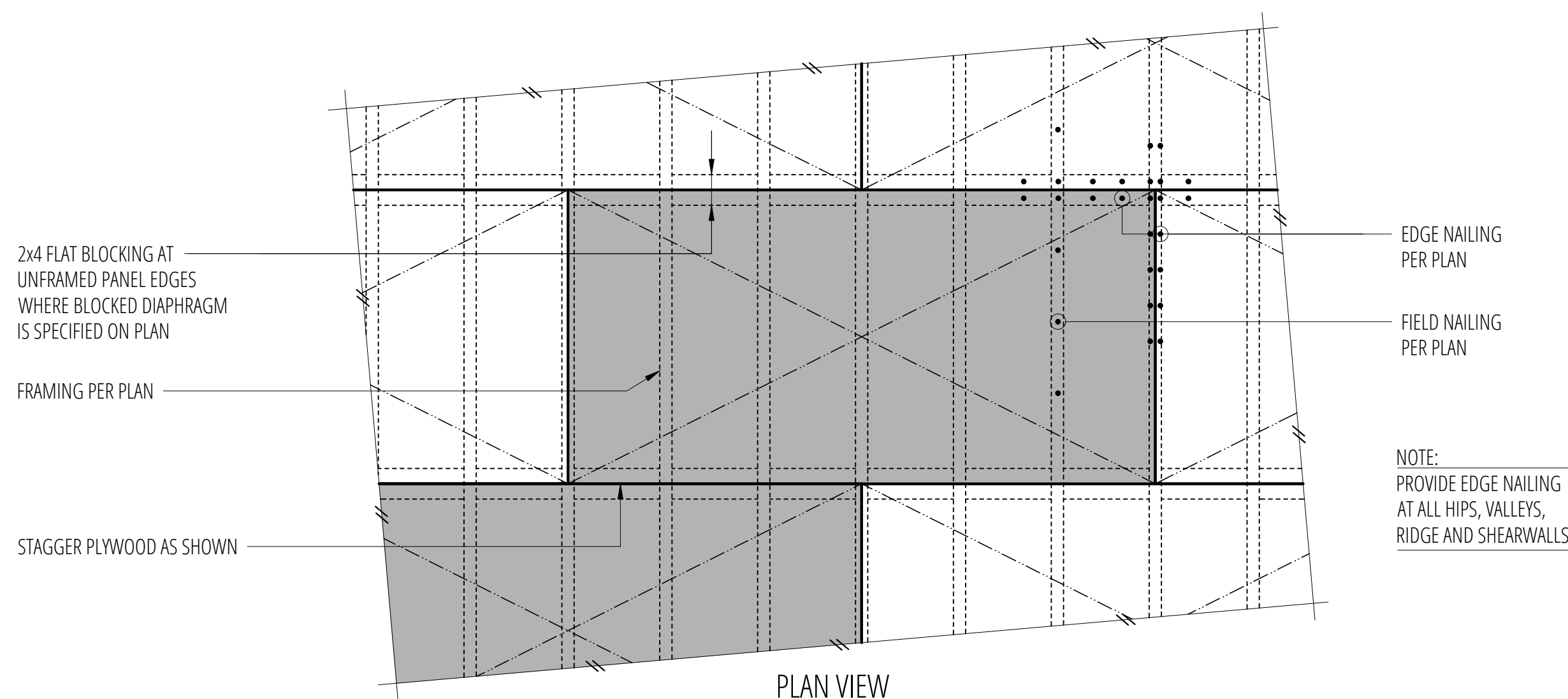
5 Typical Drag Strut (D.S.)
SCALE: 3/4"=1'-0"



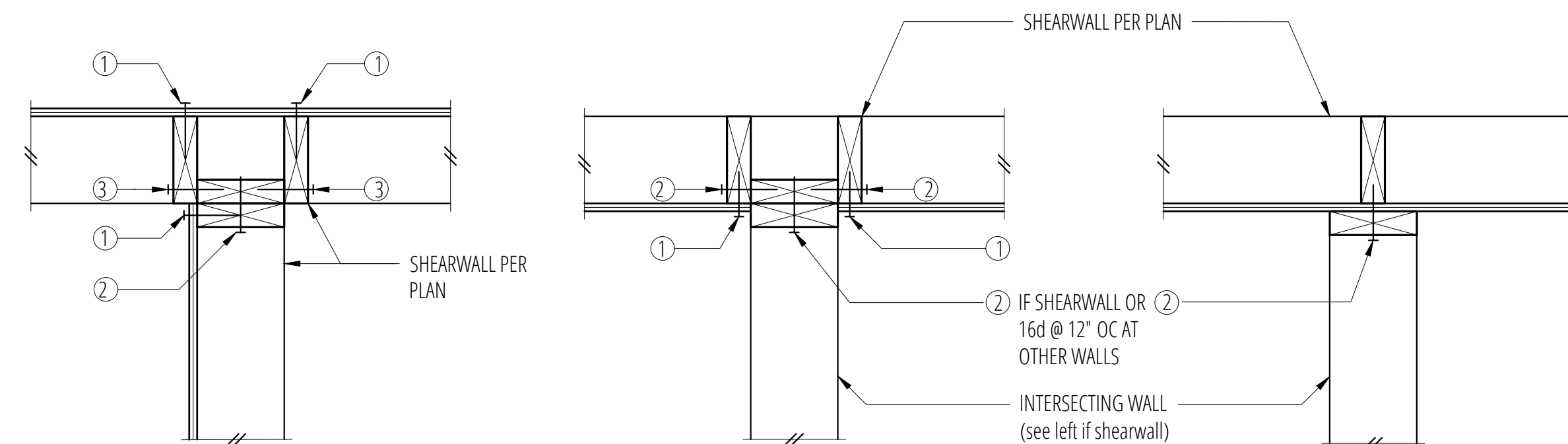
6 Typical Flush Beam
SCALE: 3/4"=1'-0"



7 Typical Shearwall Construction
SCALE: N.T.S.



9 Typical Diaphragm Sheathing and Nailing
SCALE: 3/4"=1'-0"



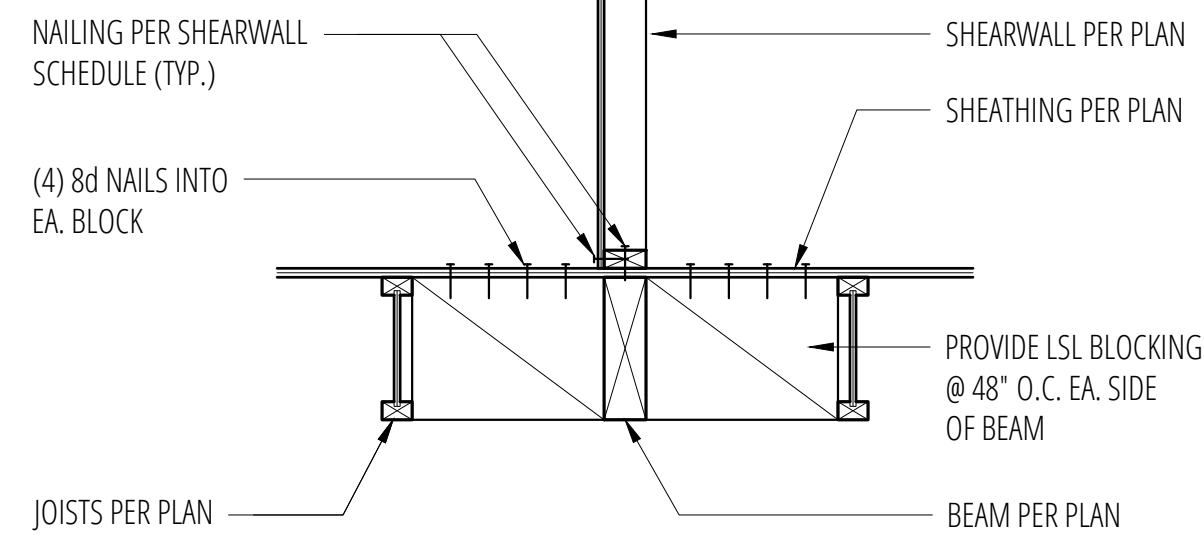
11 Typical Shearwall Intersections
SCALE: N.T.S.

- ① PLYWOOD PANEL EDGE NAILING PER SHEARWALL SCHEDULE
- ② BASE PLATE NAILING PER SHEARWALL SCHEDULE
- ③ 16d @ 8" OC

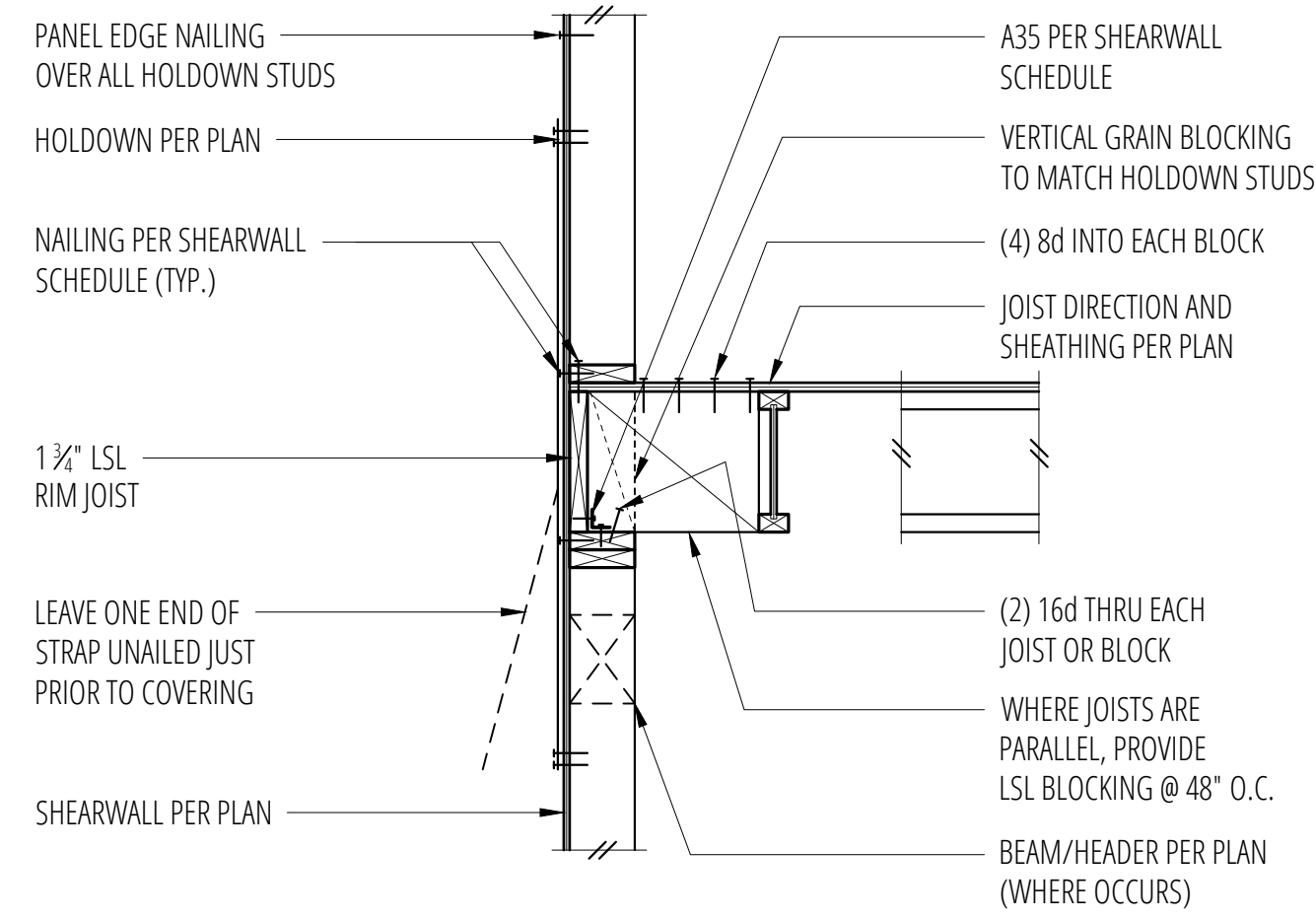
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Floor Framing Details

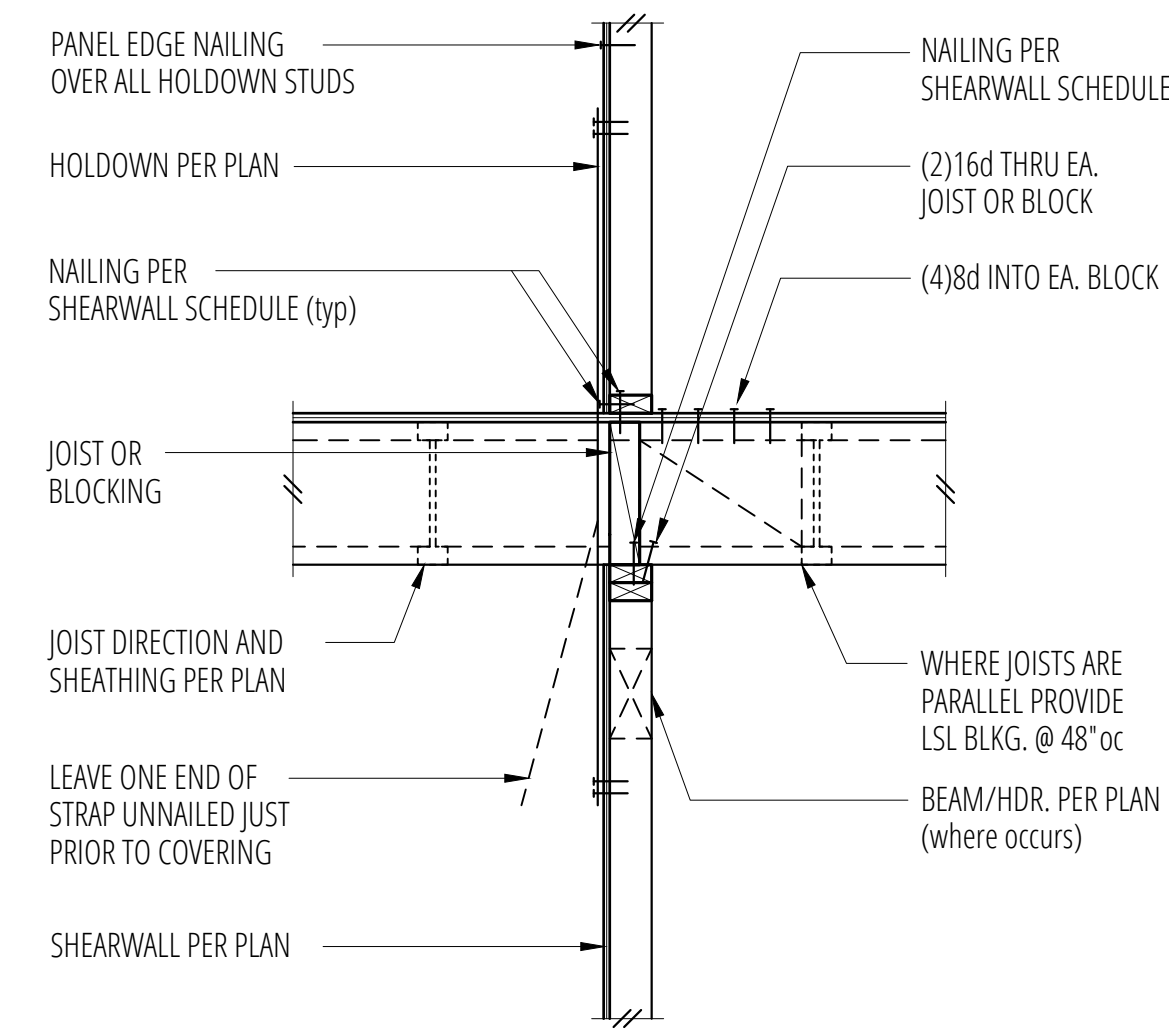
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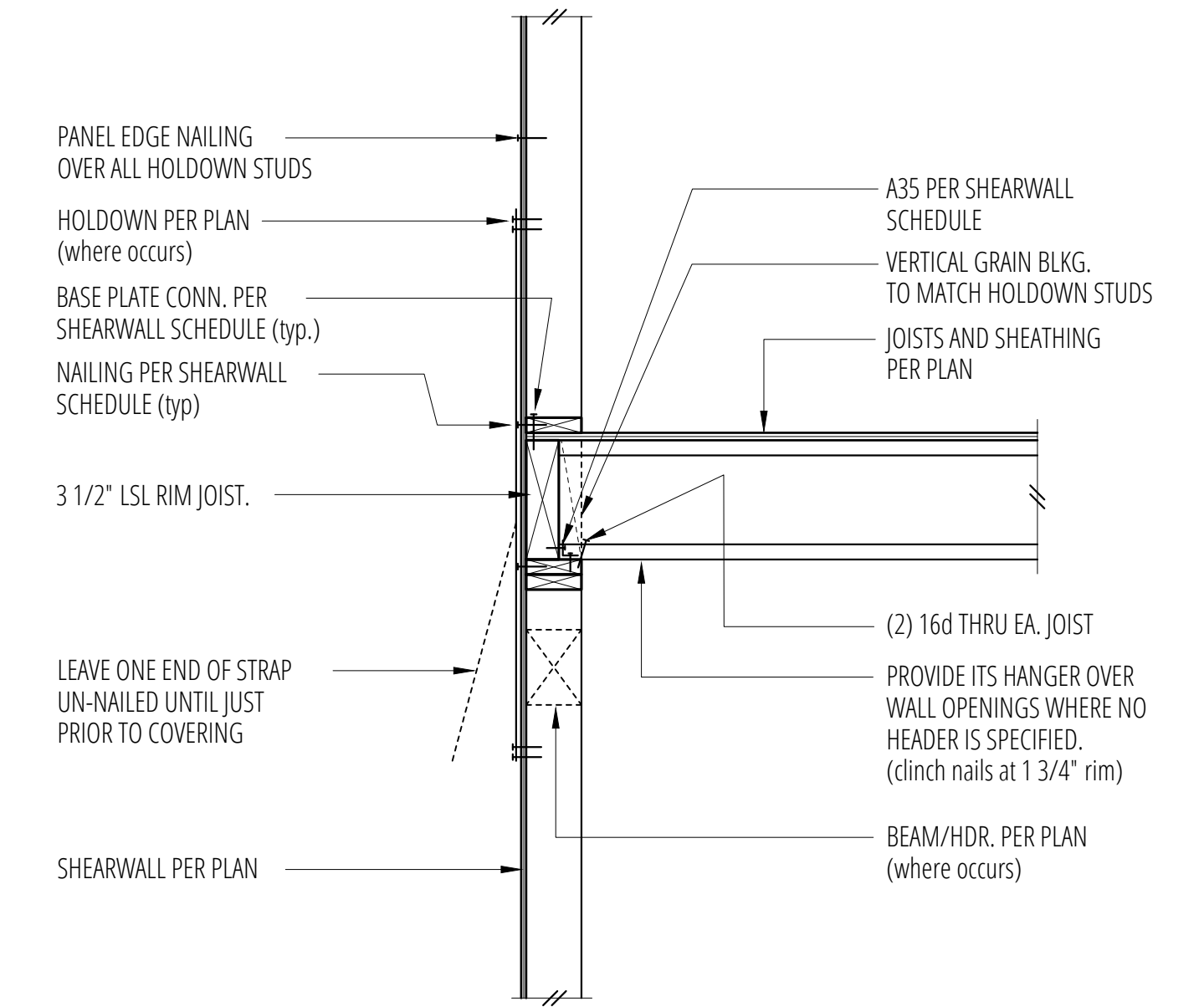
1 Shearwall over Beam (w/TJI)
SCALE: 3/4"=1'-0"



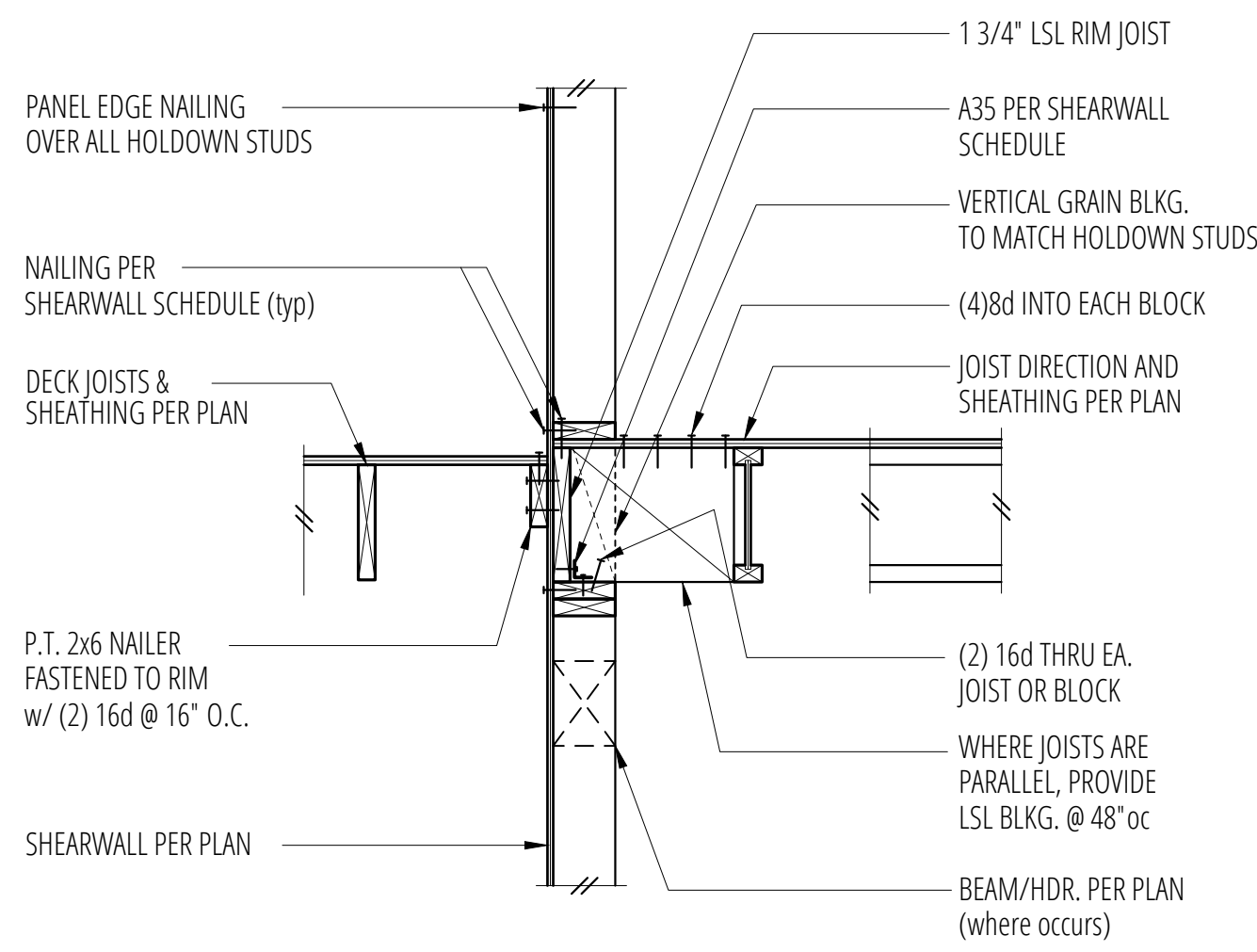
2 Exterior Floor Framing (w/ TJI's)
SCALE: 3/4"=1'-0"



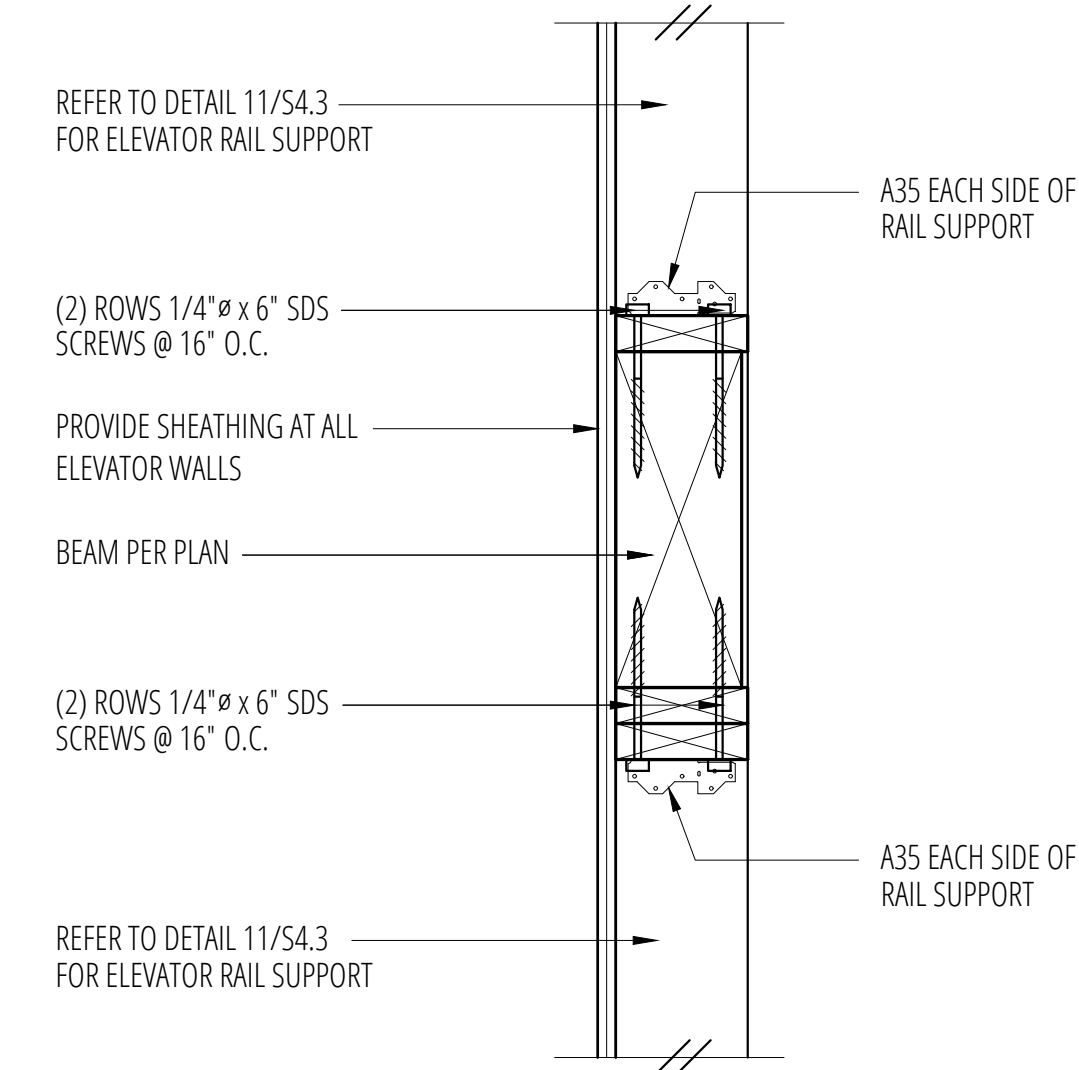
3 Interior Shearwall (w/TJI's)
SCALE: 3/4"=1'-0"



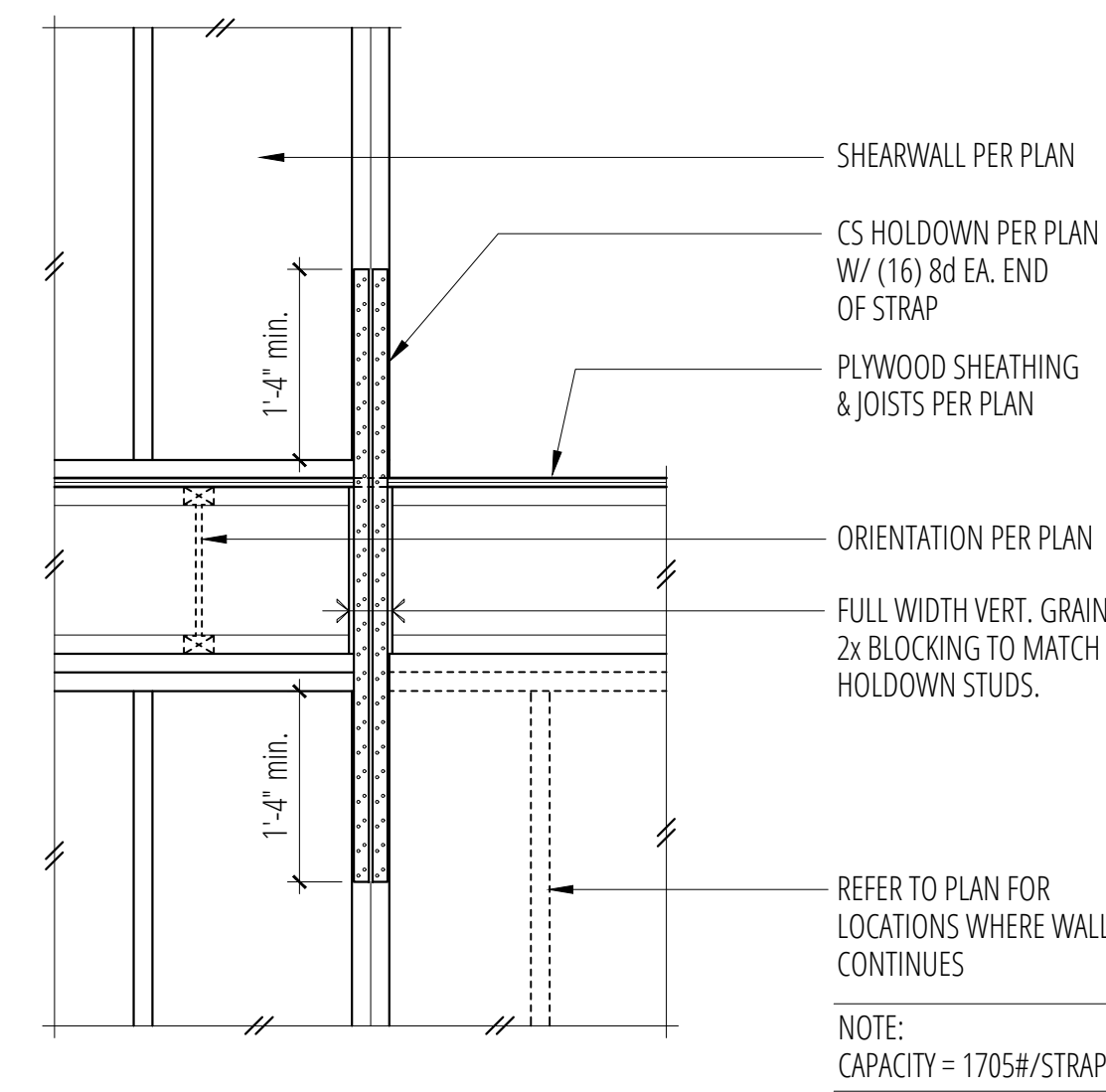
4 Perpendicular Framing at Exterior walls
SCALE: 3/4"=1'-0"



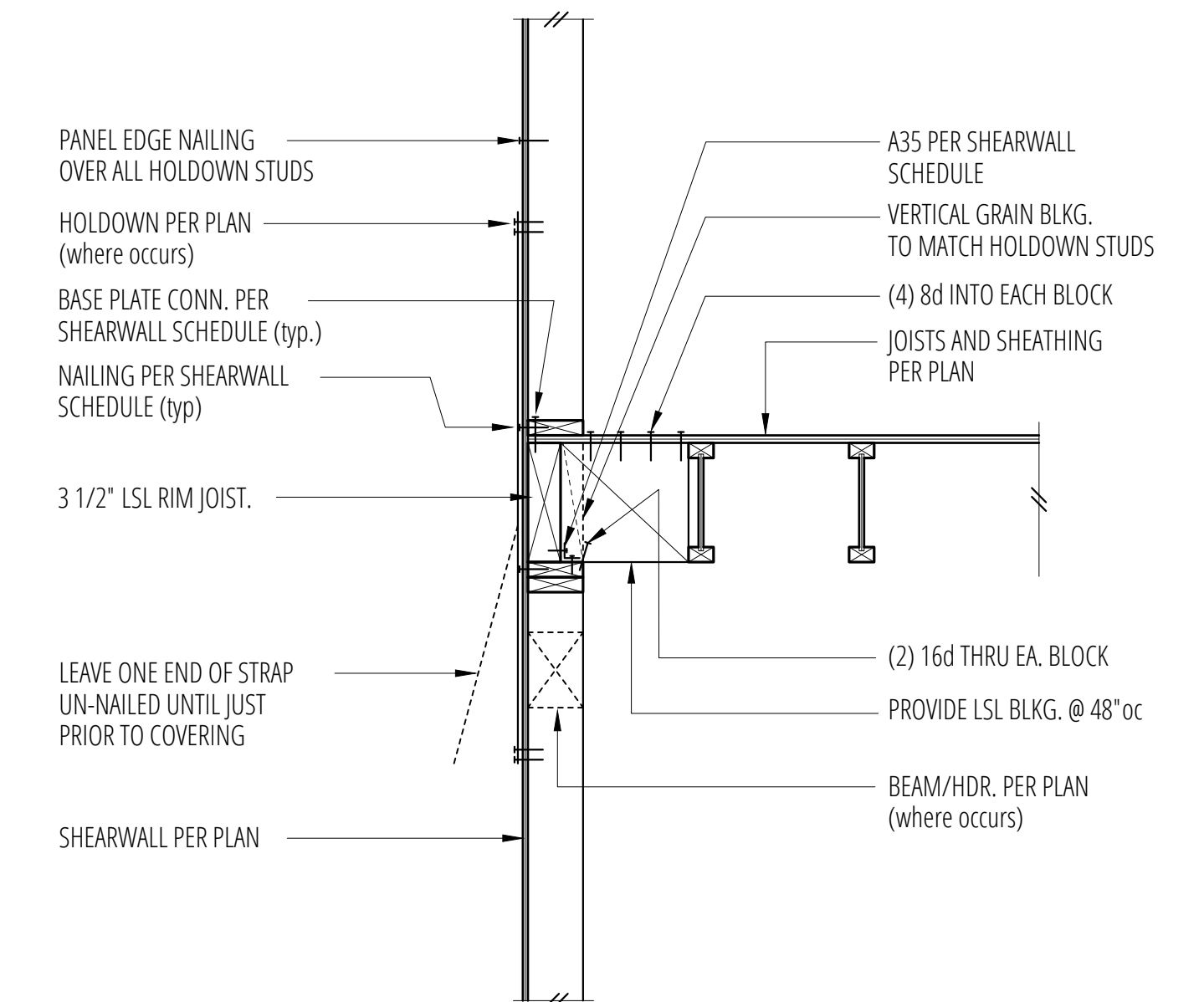
5 Exterior Floor Framing at Deck
SCALE: 3/4"=1'-0"



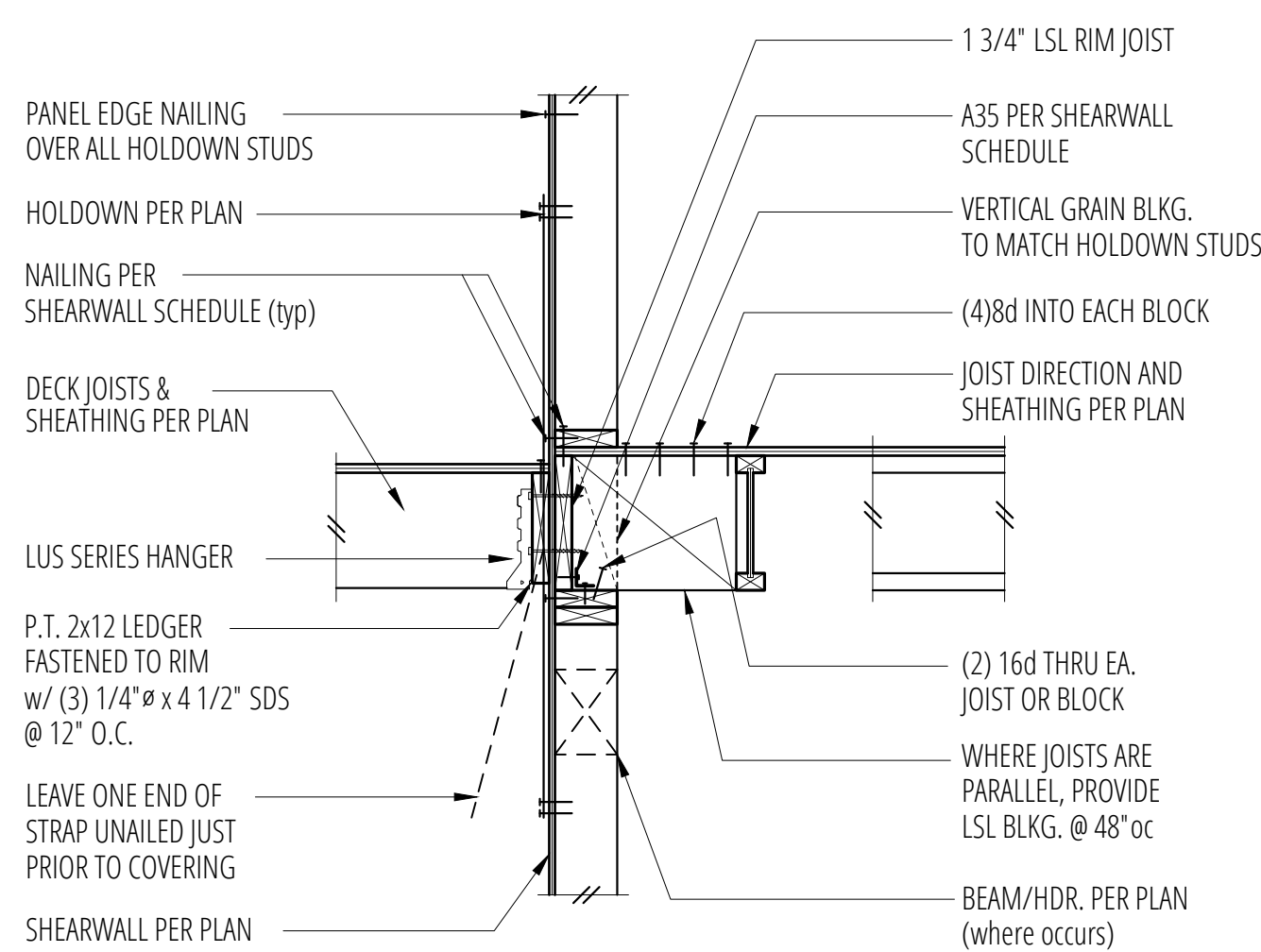
6 Floor Header at Elevator Wall
SCALE: 3/4"=1'-0"



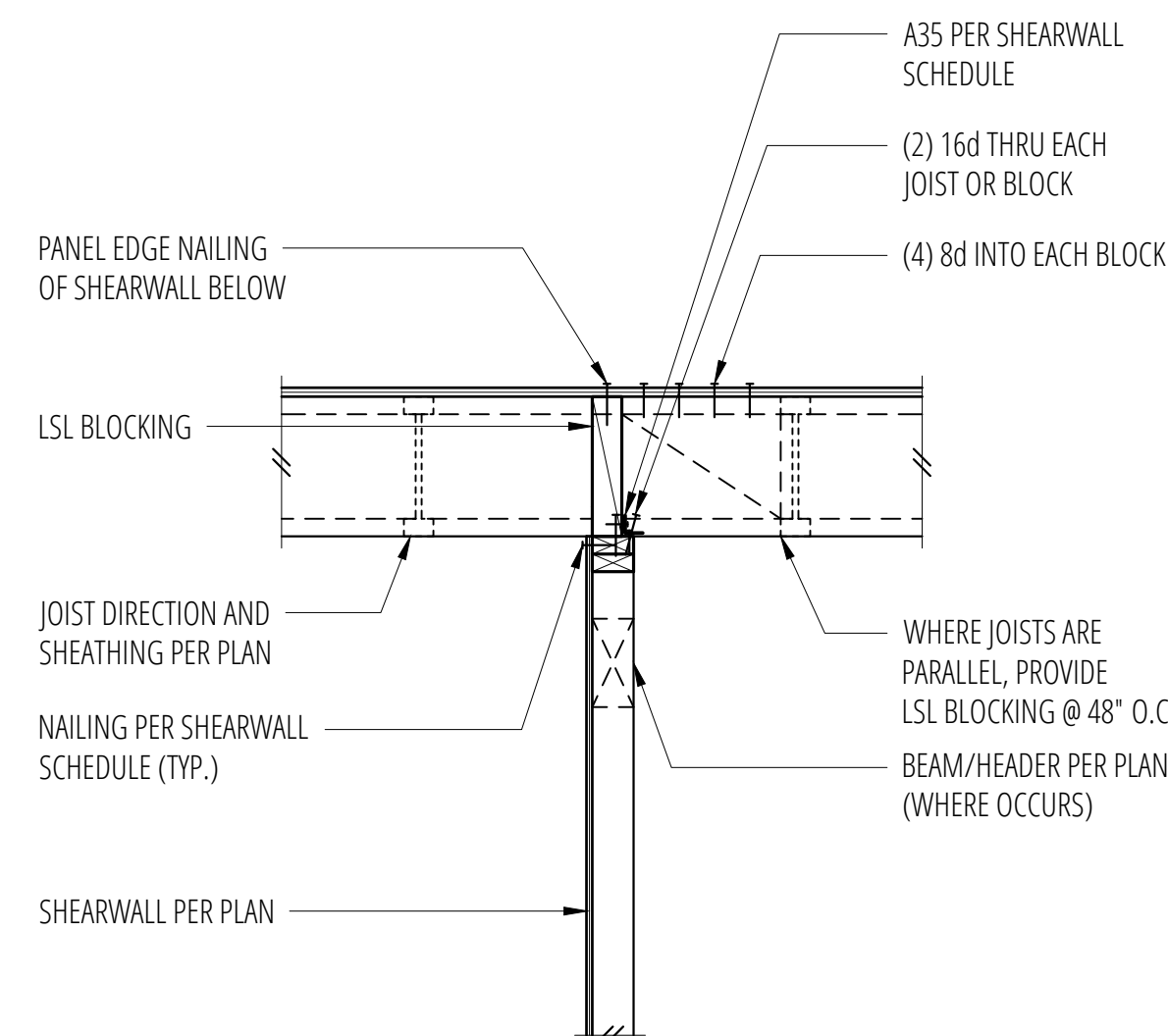
7 Typical CS16 Holdown Strap
SCALE: 3/4"=1'-0"



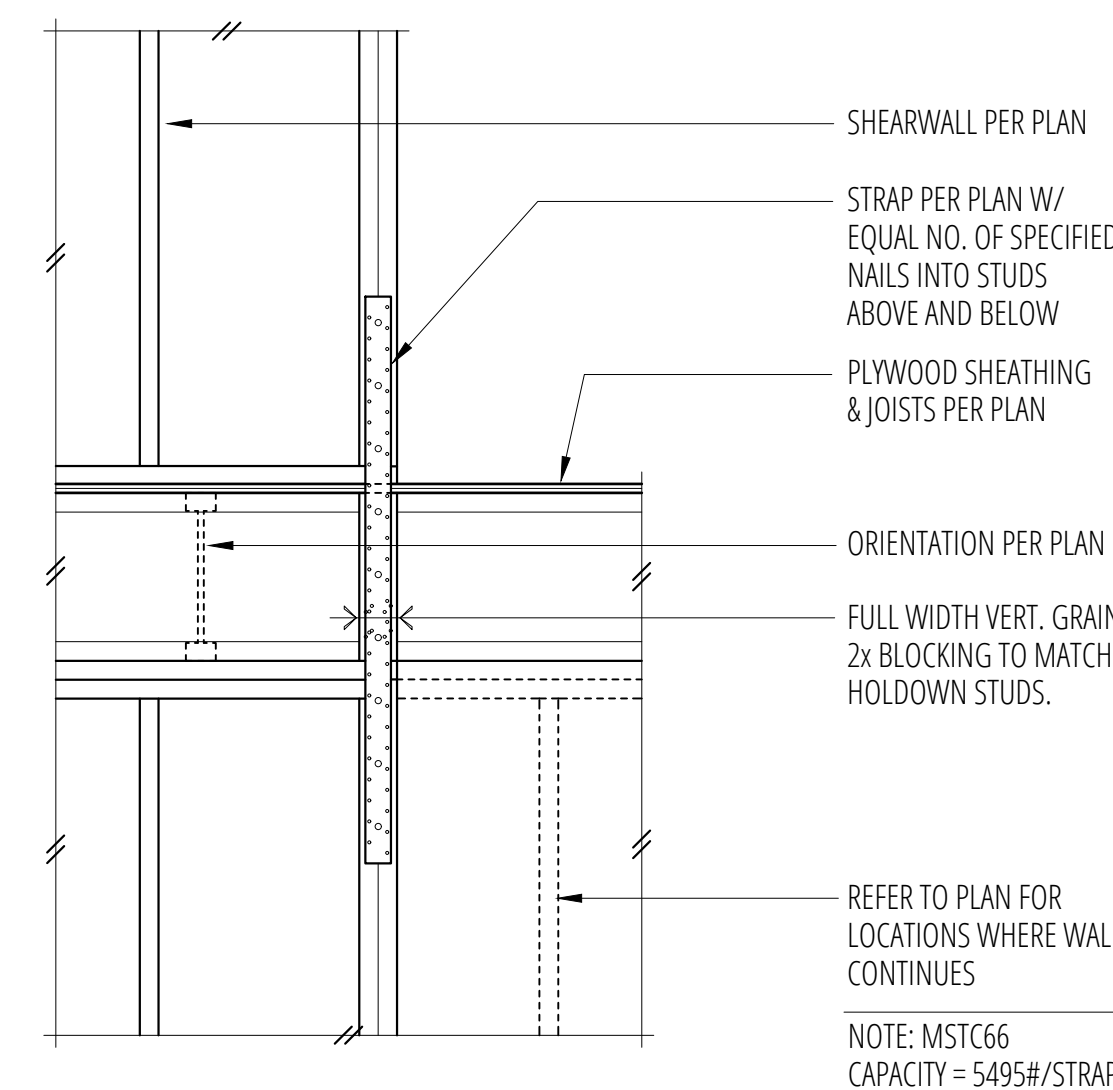
8 Parallel Framing at Exterior Walls
SCALE: 3/4"=1'-0"



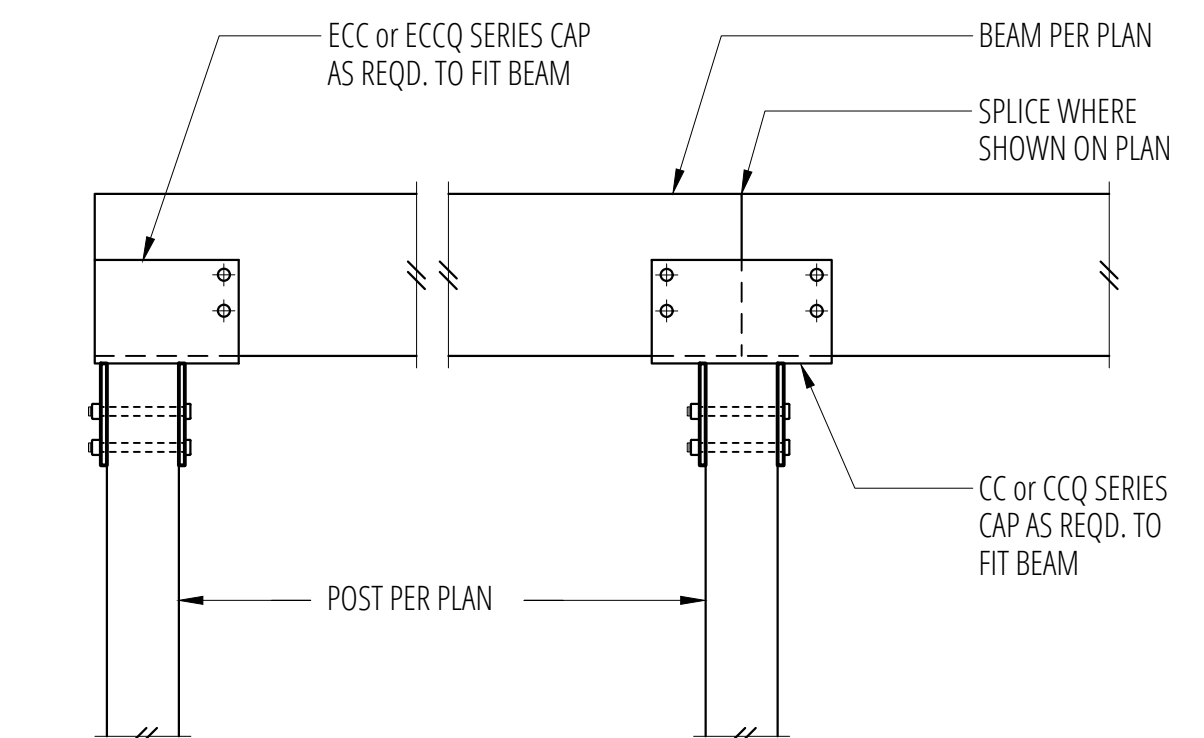
9 Exterior Floor Framing at Deck
SCALE: 3/4"=1'-0"



10 Interior Shearwall Below (w/TJI's)
SCALE: 3/4"=1'-0"



11 Typical MST/MSTC Strap
SCALE: 3/4"=1'-0"



12 CC/CCQ Series Connection
SCALE: 3/4"=1'-0"

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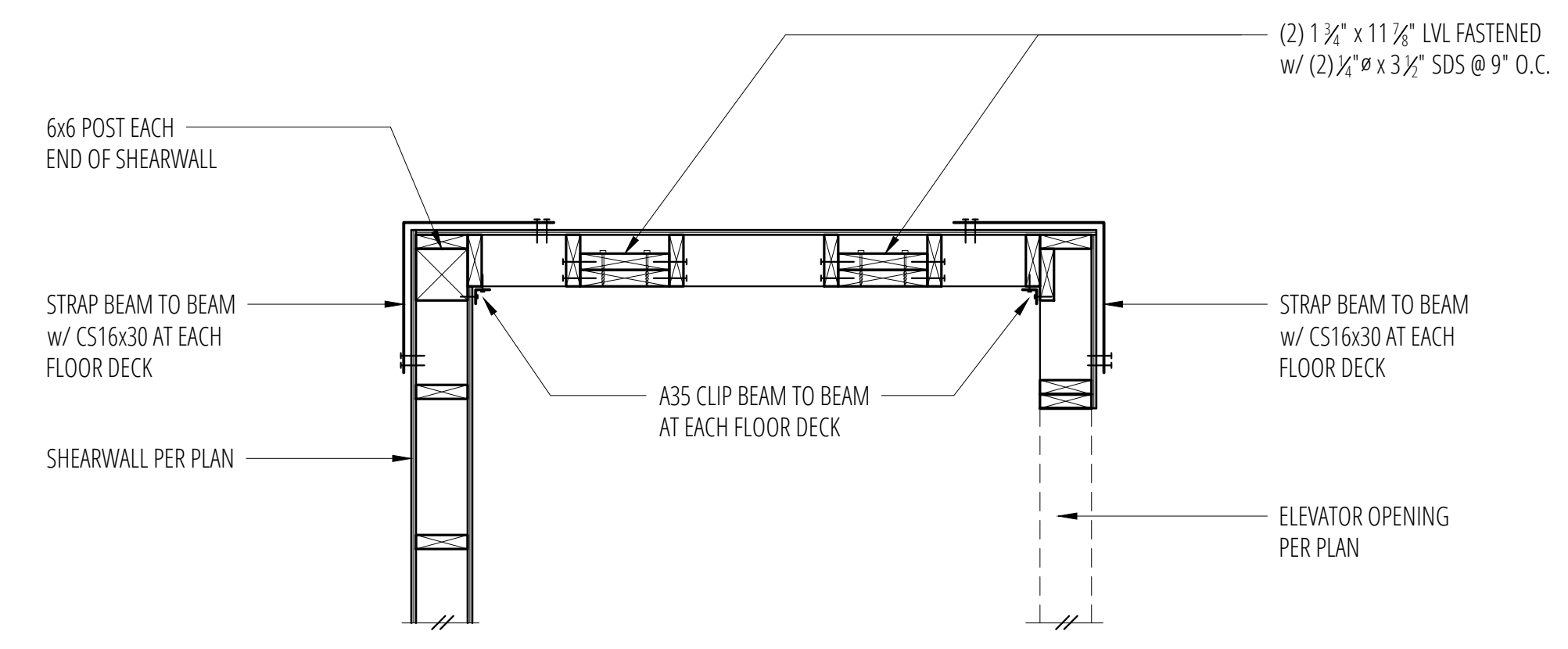
East Mercer - Parcel 3

E Mercer Way
Mercer Island, WA, 98040

1 SCALE: 3/4"=1'-0" 2 SCALE: 3/4"=1'-0" 3 SCALE: 3/4"=1'-0" 4 SCALE: 3/4"=1'-0"

5 SCALE: 3/4"=1'-0" 6 SCALE: 3/4"=1'-0" 7 SCALE: 3/4"=1'-0" 8 SCALE: 3/4"=1'-0"

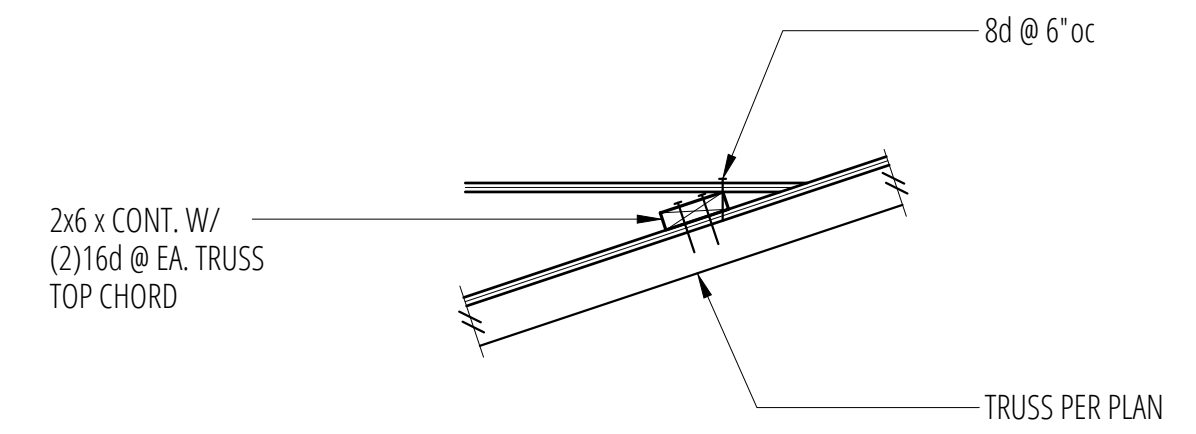
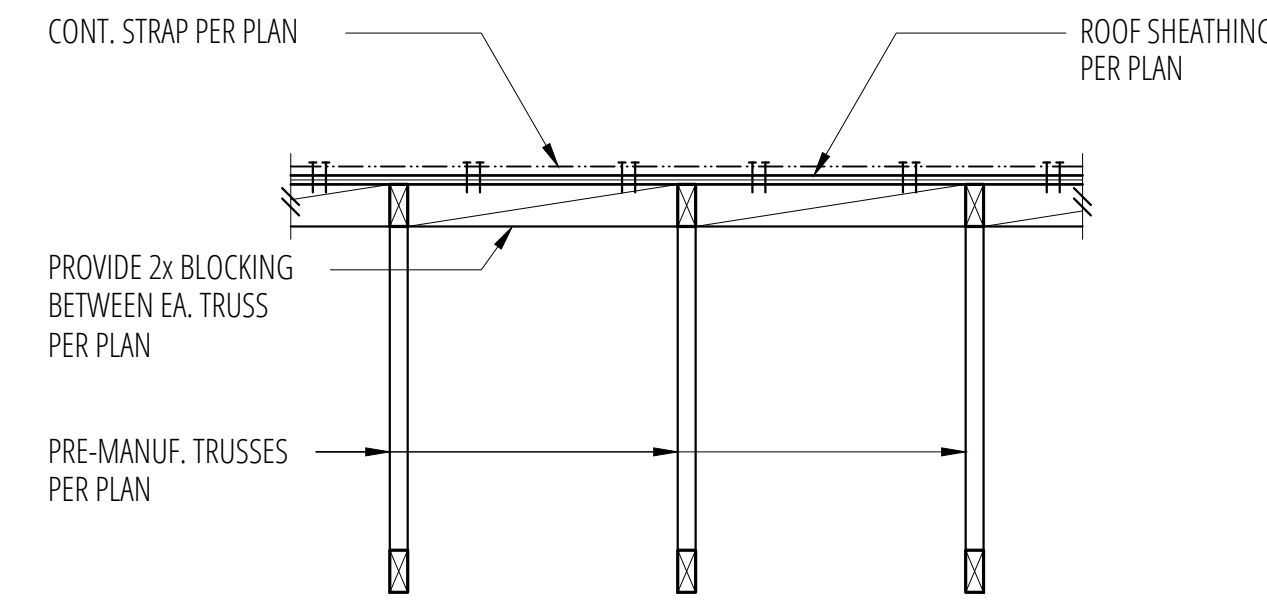
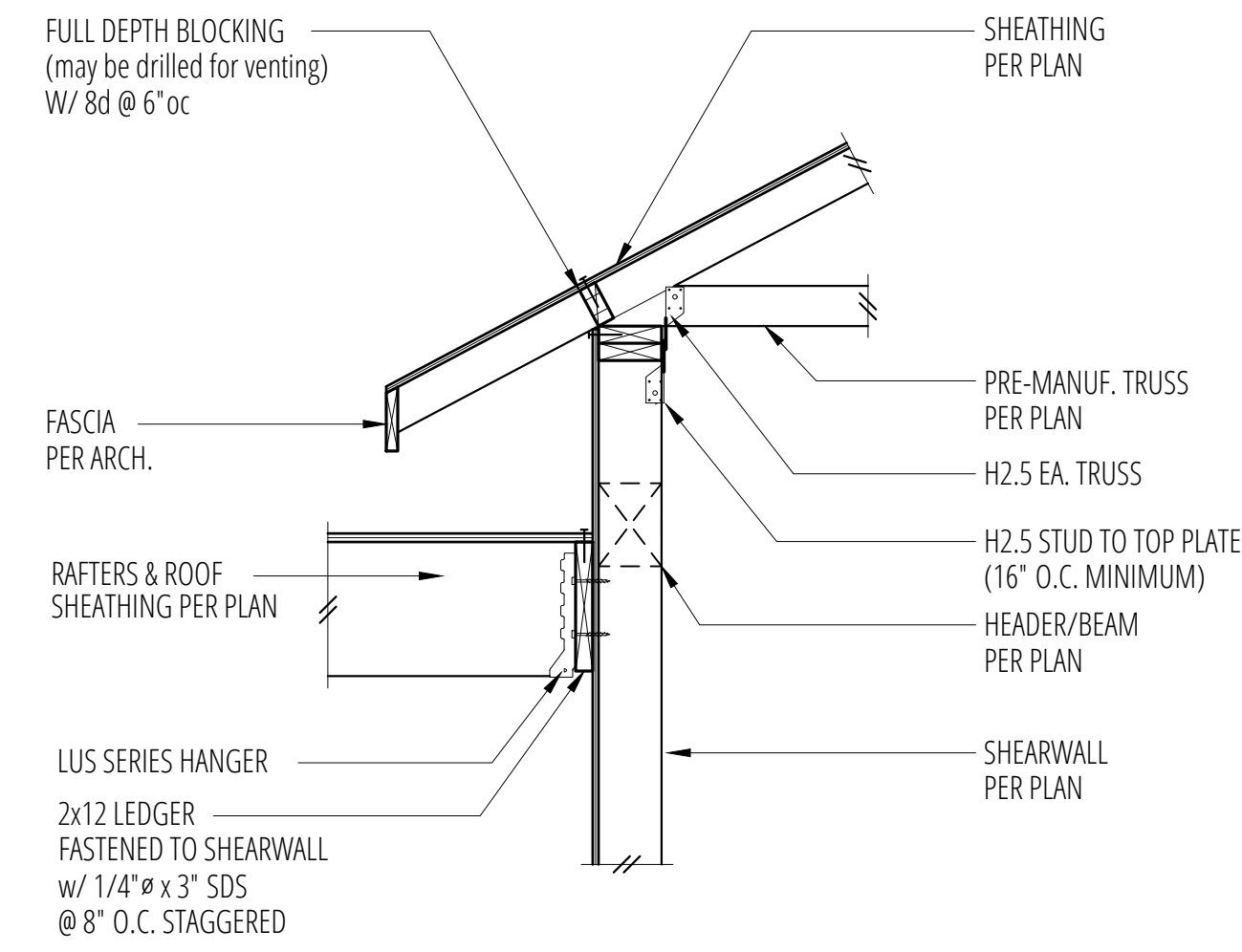
9 SCALE: 3/4"=1'-0" 10 SCALE: 3/4"=1'-0" 11 Elevator Wall Framing and Rail Support (Plan View) SCALE: 3/4"=1'-0"



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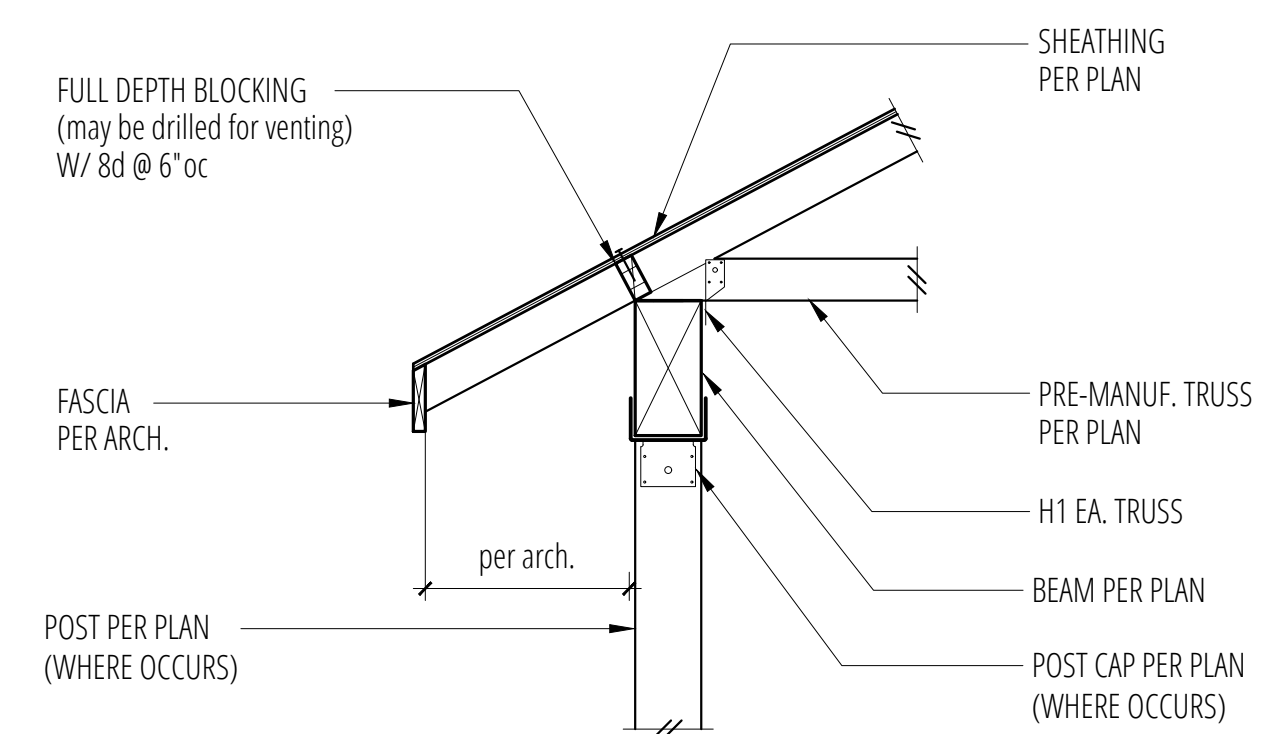
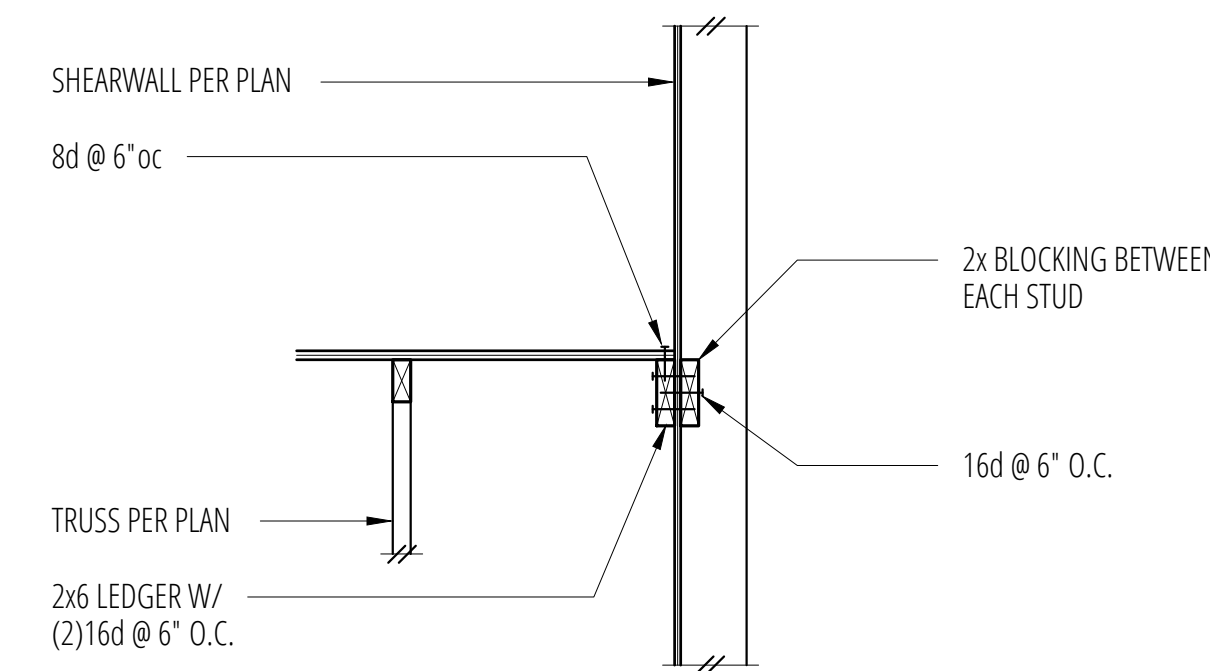
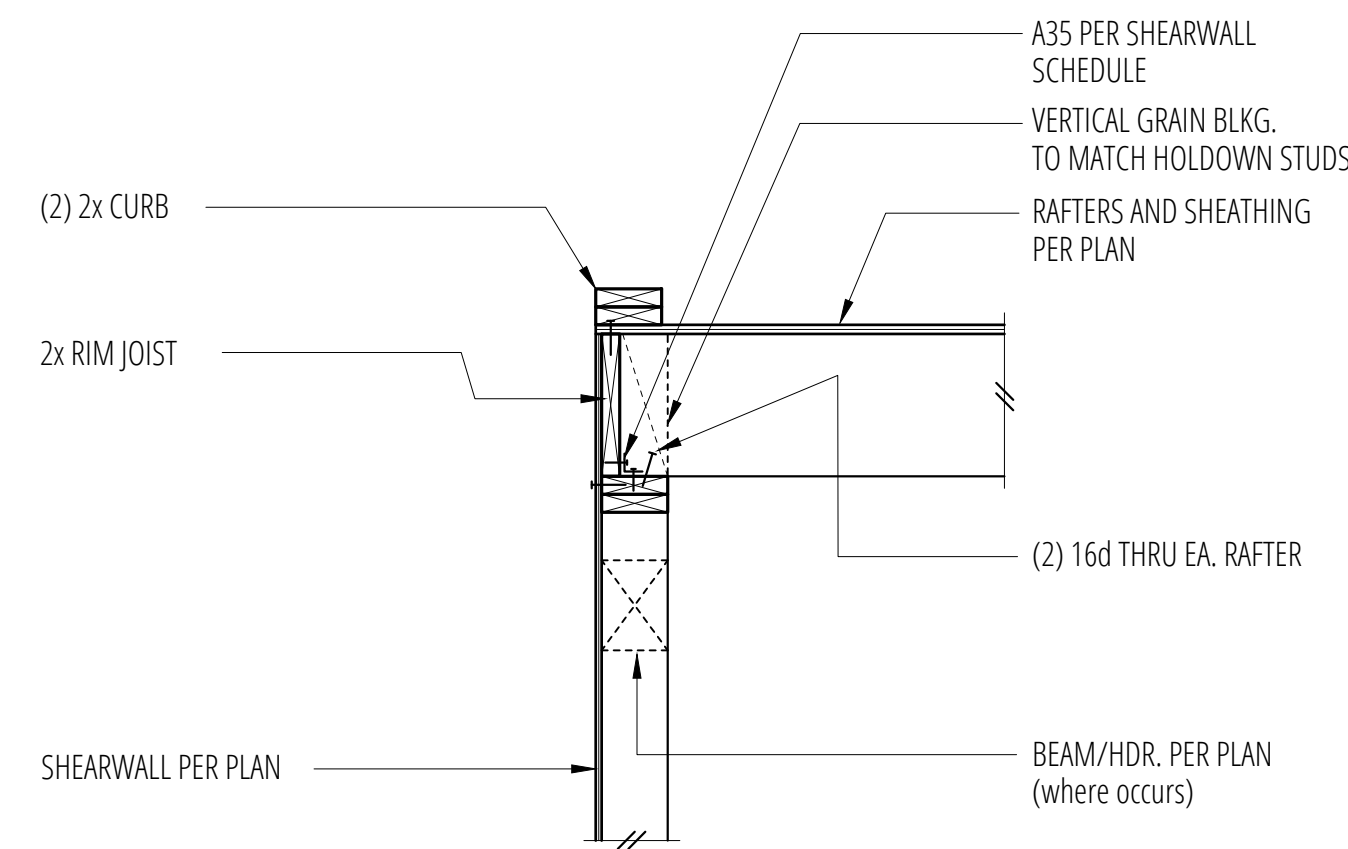


1 SCALE: 3/4"=1'-0"

2 Flat Roof at Exterior Wall
SCALE: 3/4"=1'-0"

3 Truss Blocking with Strap
SCALE: 3/4"=1'-0"

4 Overframing Connection
SCALE: 3/4"=1'-0"

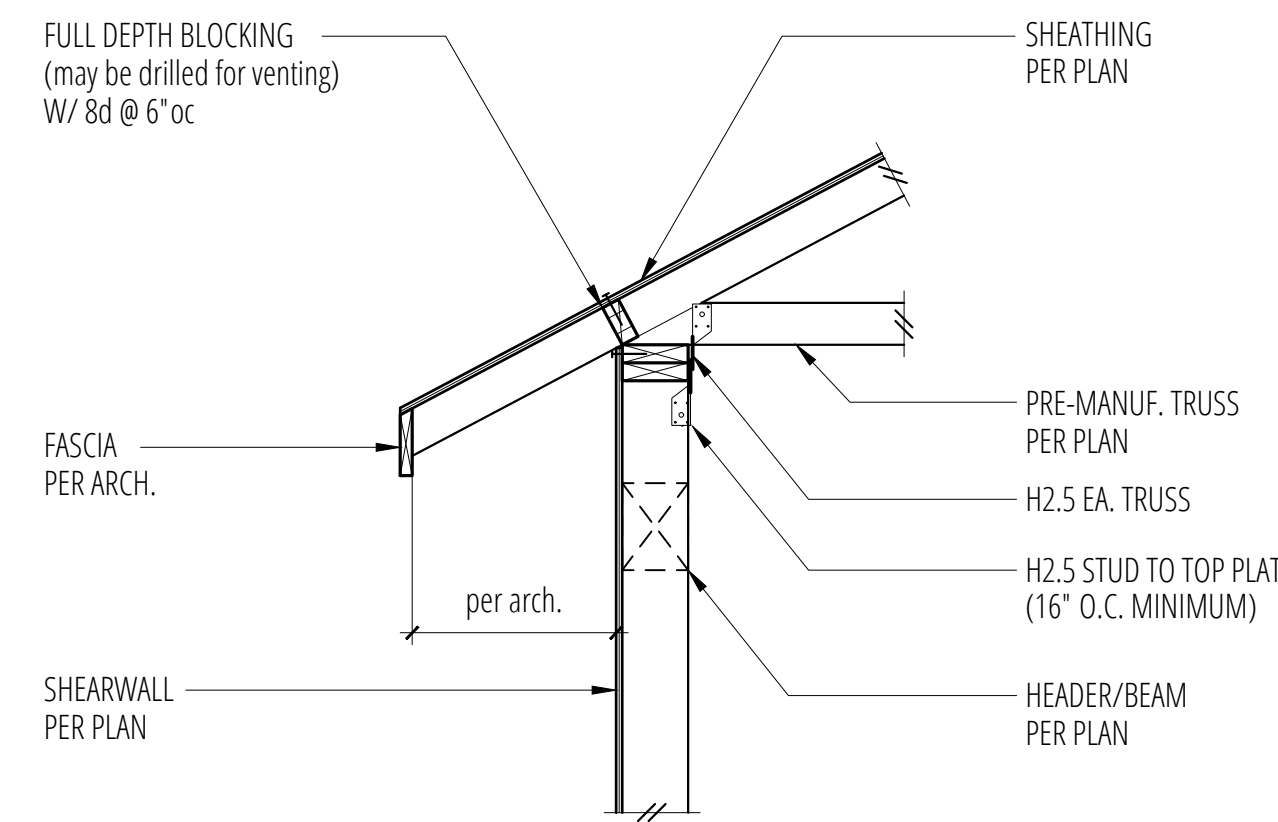
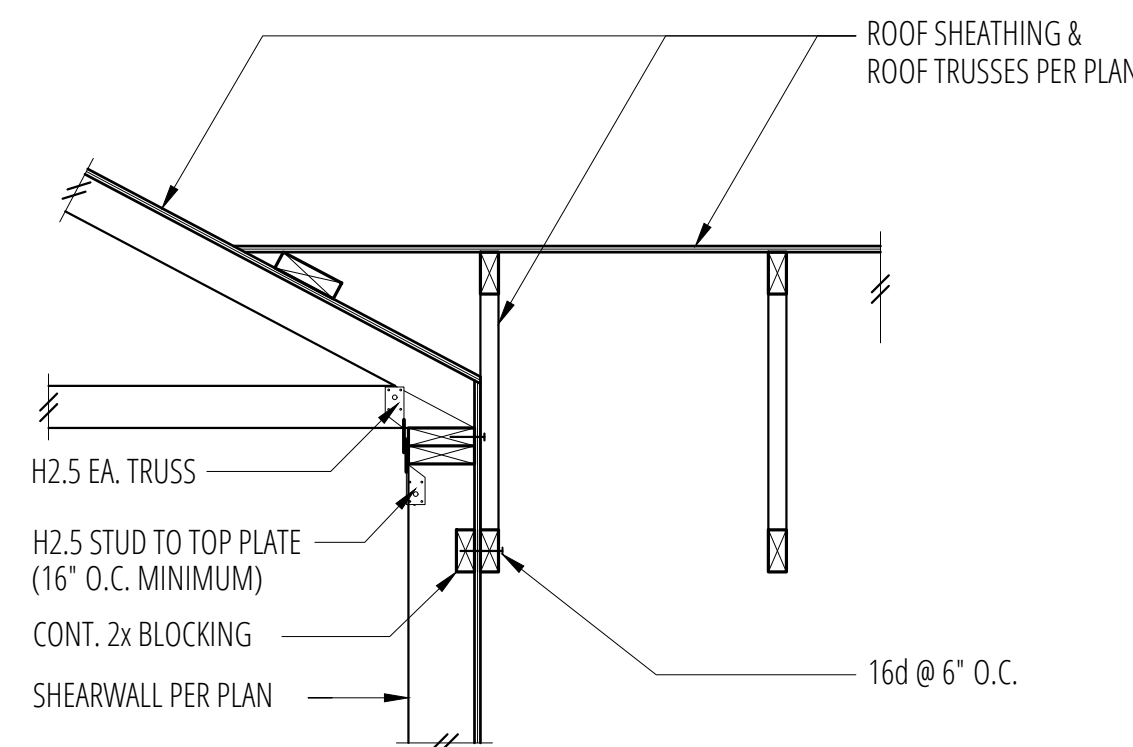
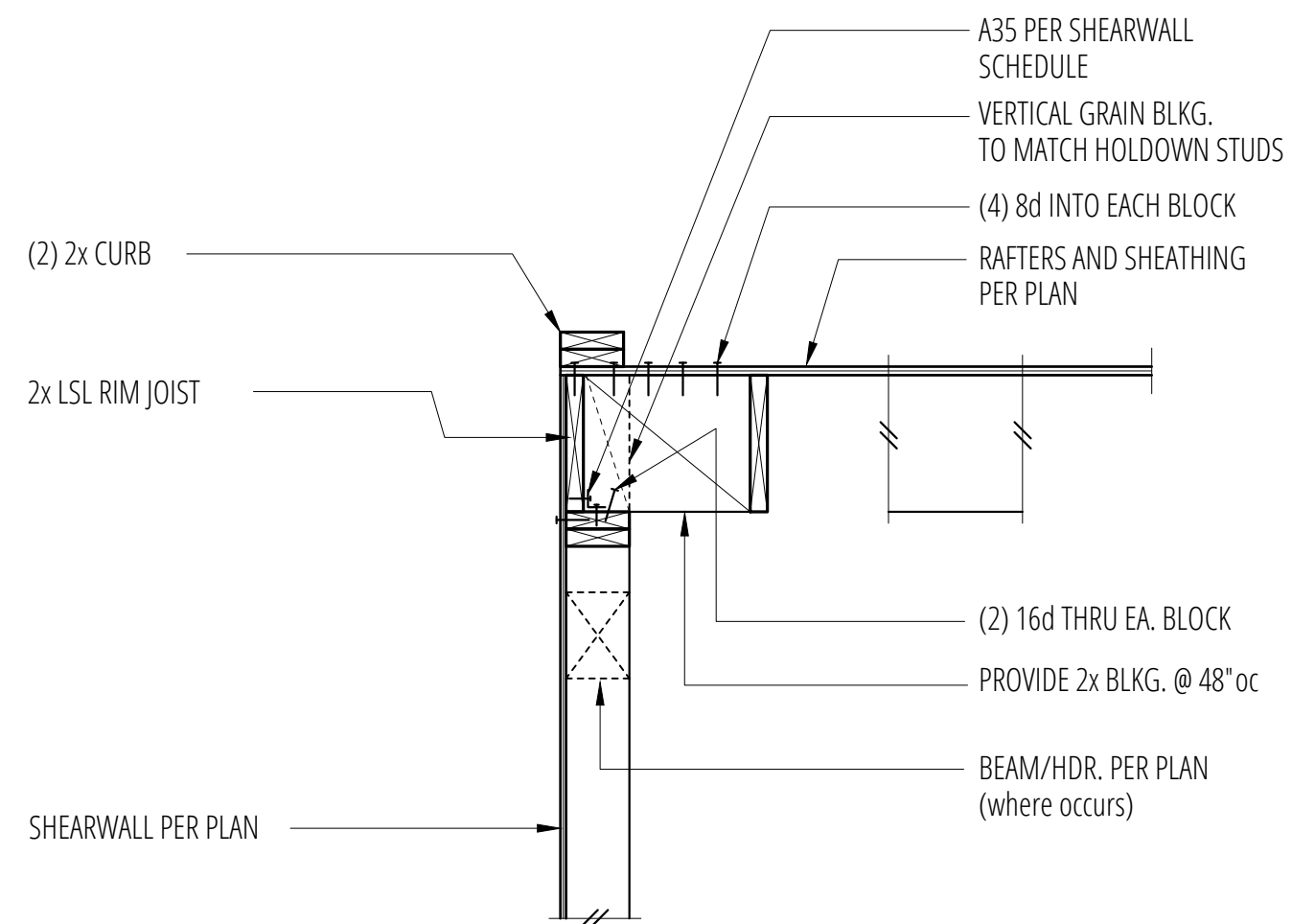


5 SCALE: 3/4"=1'-0"

6 Exterior Bearing Wall at Flat Roof
SCALE: 3/4"=1'-0"

7 Trusses Parallel to Exterior Wall
SCALE: 3/4"=1'-0"

8 Beam & Post at Roof
SCALE: 3/4"=1'-0"



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

10 Exterior Bearing Wall at Flat Roof
SCALE: 3/4"=1'-0"

11 Change in Roof Height
SCALE: 3/4"=1'-0"

12 Exterior Bearing Wall at Roof
SCALE: 3/4"=1'-0"

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Sheet Contents
Roof Framing
Details

Sheet No.