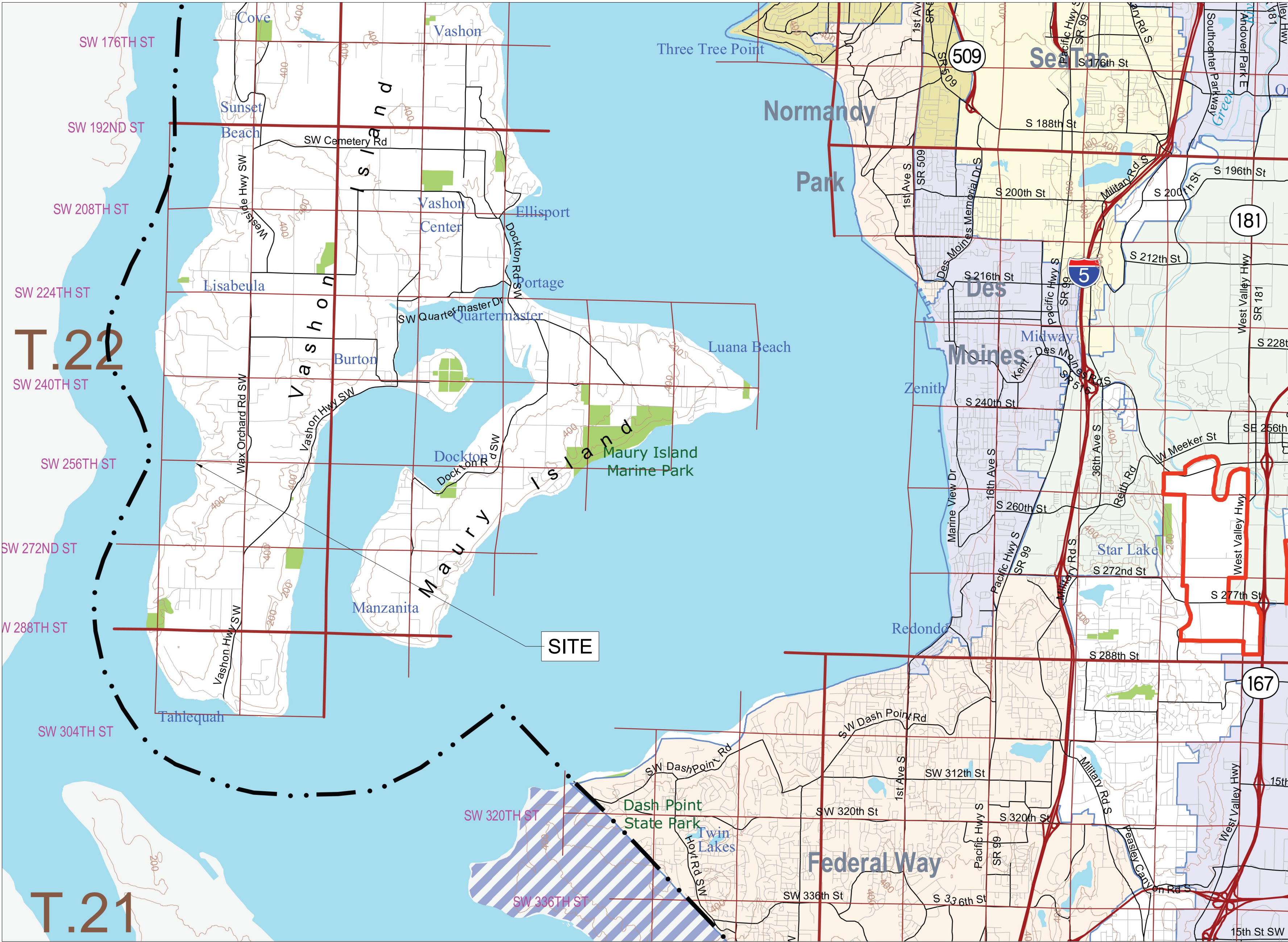


GENTRY SMITH EMERGENCY BULKHEAD REPLACEMENT

KING COUNTY, WASHINGTON

SECTION 26, TOWNSHIP 22 NORTH, RANGE 02 EAST



VICINITY MAP
NOT TO SCALE

SITE ADDRESS

HOUSE #4:
25630 BATES WALK SW
VASHON, WASHINGTON 98070
PARCEL NOS. 262202-9030, 262202-9062
& 262202-TRCT

OWNER / DEVELOPER

MARIAH GENTRY & BRENNEN SMITH
25630 BATES WALK SW
VASHON, WASHINGTON 98070

CONTRACTOR

T.B.D.

CIVIL ENGINEER

ELLISPORT ENGINEERING, INC
20501 81ST AVENUE SW
VASHON, WA 98070
(206) 463-5311

BENCHMARK AND DATUM

DATUM IS ASSUMED:
TOPOGRAPHIC AND BOUNDARY INFORMATION IS BASED ON INFORMATION PROVIDED BY KING COUNTY GIS. THE TOPOGRAPHY WAS GENERALLY CONFIRMED IN THE FIELD. CONTENT PROVIDED HEREIN MAY BE DEEMED RELIABLE BUT IS NOT GUARANTEED. THIS IS NOT A SURVEY. VALUES FOR OHW AND HTL ARE RELATIVE TO A DATUM OF MLLW = 0.

LEGAL DESCRIPTIONS

PARCEL NO. 262202-9030:
POR GL 1 BEG AT NE COR OF S 100 FT OF N 300 FT OF SD GL TH W ALG N LN THOF 520.65 FT TH S 13-00-00 W 10 FT TH S 66-30-00 W 12.20 FT TH S 13-00-00 W 38.70 FT TH N 77-00-00 W 25 FT M/L TO MDR LN OF PUGET SOUND TH SLY ALG SD MDR LN 10 FT M/L TO PT ON LN PLW & 10 FT SWLY OF ABOVE DESC LN RNG N 77-00-00 W & TPOB TH S 77-00-00 E TO NXN WITH S LN OF N 300 FT OF GL 1 TH W ALG SD S LN TO GOV MDR LN TH NELY ALG SD MDR LN TO TPOB & UND 1/2 INT IN 2ND CL TD LDS ADJ TGW 2ND CL TD LDS ADJ FOLG - POR GL 1 DAF - BAAP ON E BDRY LN SD GL 1 200 FT S OF NE COR THOF TH W AT RIGHT ANGLES 520.65 FT TH S 13-00-00 W 10 FT TH S 66-30-00 W 12.20 FT TH S 13-00-00 W 38.70 FT TH N 77-00-00 W 25 FT M/L TO MDR LN PUGET SOUND TH SLY ALG MDR LN 10 FT M/L TO LN PLW & 10 FT SLY OF COURSE DESC AS BEARING N 77-00-00 W TH S 77-00-00 E TO NXN WITH LN AT RT ANGLES TO E LN SD LOT 1 FROM A PT 300 FT S OF NE COR SD LOT TH E ALG SD LN TO E LN SD LOT TH N 100 FT TO POB

PARCEL NO. 262202-9062:
POR OF GL 1 BEG AT PT ON E LN GL 1 DIST 200 FT S OF NE COR TH W AT R/A 520.65 FT TH S 13-00-00 W 10 FT TH S 66-30-00 W 12.20 FT TH S 13-00-00 W 38.70 FT TH N 77-00-00 W 25 FT M/L TO MDR LN OF PUGET SOUND TH SLY ALG SD MDR LN 10 FT M/L TO PT CALLED A & TO PT ON LN PLW & 10 FT SWLY OF THE ABOVE DESC COURSE OF N 77-00-00 W TH S 77-00-00 E TO NXN WITH LN DRN AT R/A TO E LN OF GL 1 FRM PT 300 FT S OF NE COR OF SD GL TH E ALG SD PLL LN TO E LN OF GL 1 TH N ALG E LN 100 FT TO POB & 2ND CL TD LDS ADJ & UND 1/2 INT IN 2ND CL TD LDS ADJ FOLG POR MEAS ALG MDR LN BEG AT ABOVE DESC PT A & RNG TH SWLY ALG MDR LN TO NXN WITH S LN OF N 300 FT OF GL 1

CONTRACTOR NOTE

ALL EXISTING UTILITIES SHOWN ON PLANS ARE TO BE VERIFIED HORIZONTALLY AND VERTICALLY PRIOR TO ANY CONSTRUCTION. ALL EXISTING FEATURES INCLUDING BURIED UTILITIES ARE SHOWN AS INDICATED ON RECORD MAPS AND SURVEY FURNISHED BY OTHERS. WE ASSUME NO LIABILITY FOR THE ACCURACY OF THOSE RECORDS AND SURVEY, FOR THE FINAL LOCATION OF EXISTING UTILITIES IN AREAS CRITICAL TO CONSTRUCTION CONTACT THE UTILITY OWNER/AGENCY.

SHEET INDEX

VICINITY PLAN & PROJECT INFORMATION	C1
SITE PLAN	C2
SITE PLAN - BENCHMARKS	C2.1
PROPOSED PLAN & SECTION	C3
DETAIL & GENERAL NOTES	C4

PRIVATE IMPROVEMENTS

DEVELOPMENT ENGINEER _____ DATE _____

KING COUNTY ORDINANCE NUMBER(S) _____

THESE ACTIONS MUST BE COMPLETED PRIOR TO BEGINNING CONSTRUCTION:

- CONTACT THE APPLICANT'S RETAINED ENGINEER TO COORDINATE REQUIRED INSPECTIONS.
- APPOINT A TRAINED ESC LEAD WHO SHALL BE PROVIDED A COPY OF THE ESC PLAN & INSPECTION SCHEDULE.

3. CONTACT

THE AREA INSPECTOR, AT _____, TO

COORDINATE THE PRECONSTRUCTION MEETING AND COUNTY INSPECTIONS.

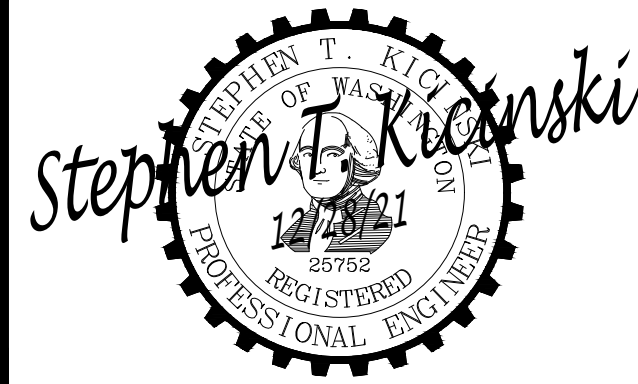
FAILURE TO OBTAIN REQUIRED INSPECTIONS MAY ENDANGER OR DELAY PROJECT APPROVAL.

ALL WORK IN THE PUBLIC RIGHT-OF-WAY REQUIRES A PERMIT FROM THE KING COUNTY PUBLIC WORKS DEPARTMENT.

General Notes

Firm Name and Address

ELLISPORT ENGINEERING, INC.
20501 81st Ave SW
Vashon, WA 98070
206.463.5311 - phone
206.463.2578 - fax



Project Name and Address

GENTRY SMITH BULKHEAD
25630 Bates Walk SW
Vashon, Washington 98070

Project

GENTRY SMITH

Date

28 DEC 2021

Drafter

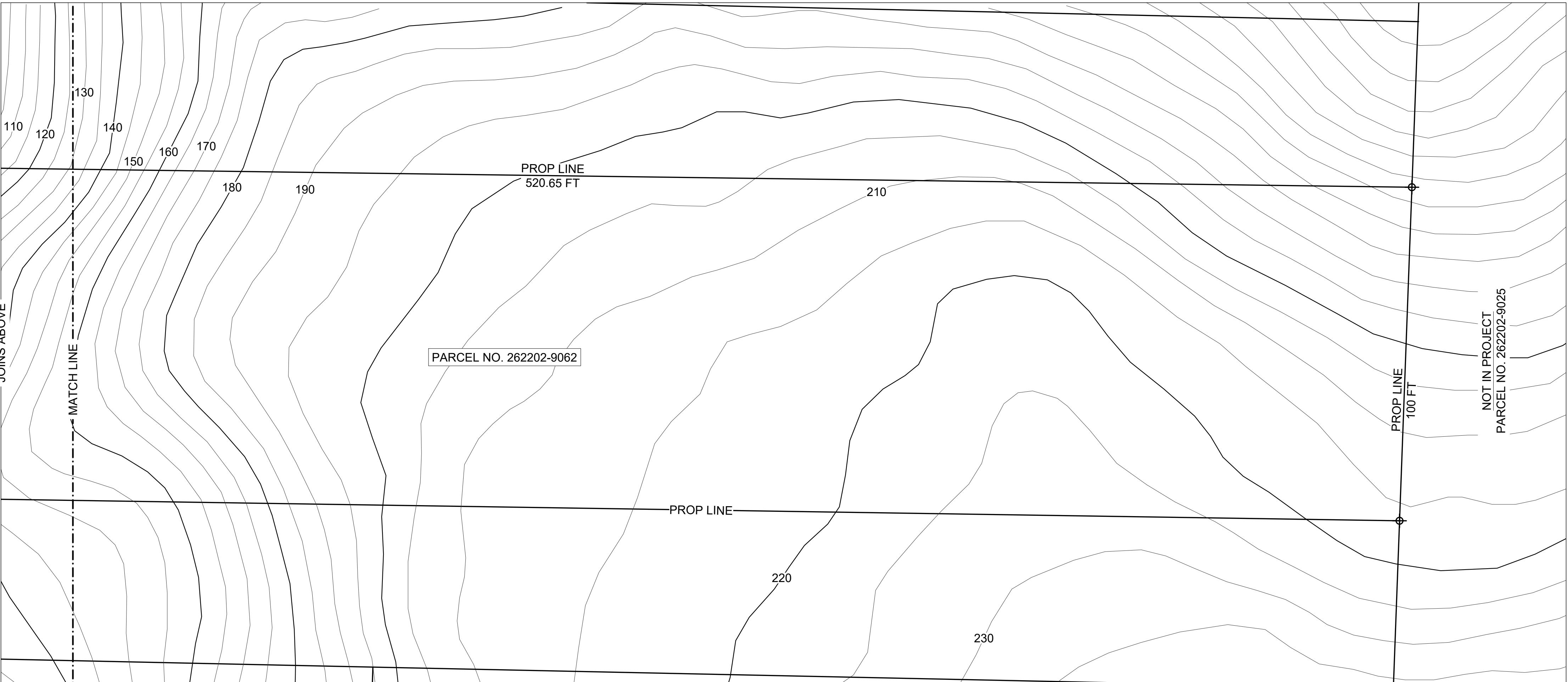
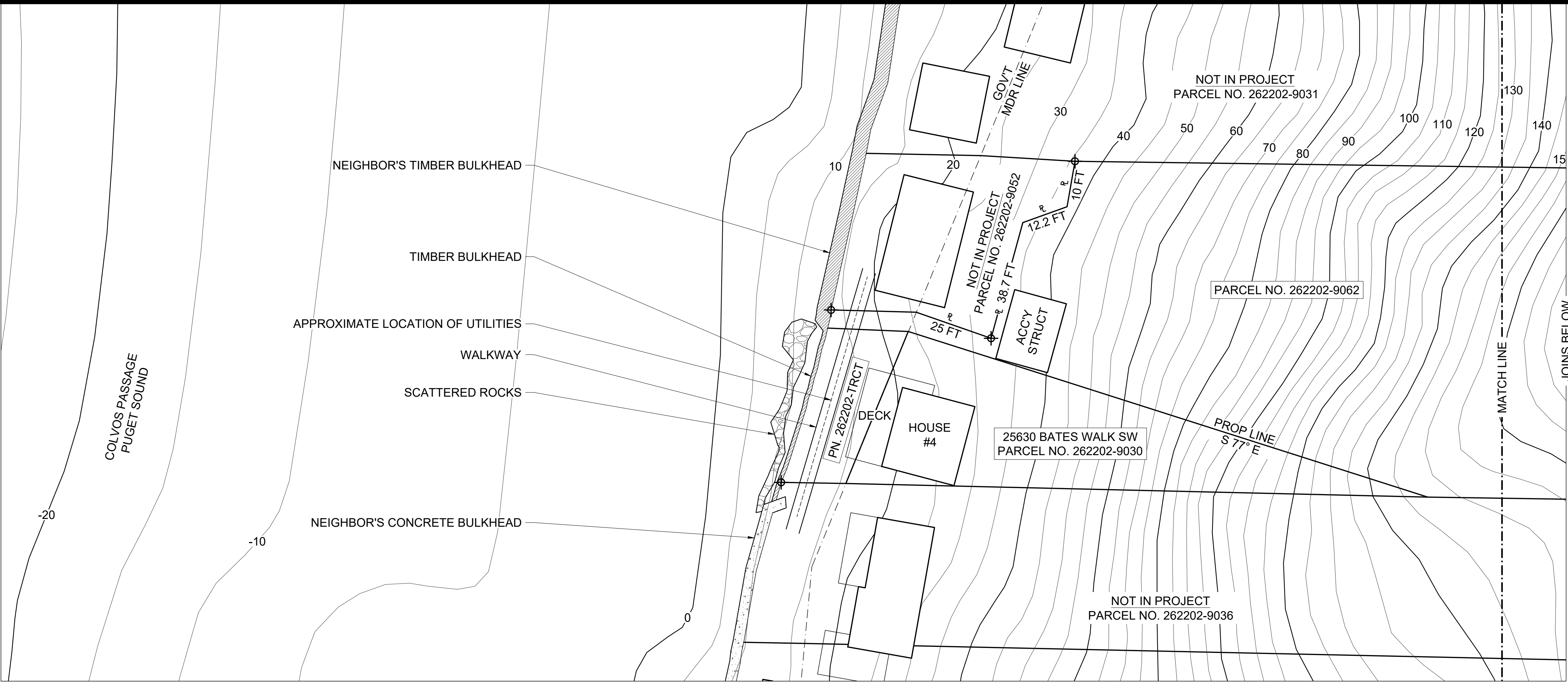
DSD

Engineer

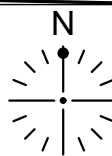
STK

Sheet

C1



NOTE:
SITE PLAN HAS BEEN ESTABLISHED THROUGH KING COUNTY GIS INFORMATION AND QUARTER SECTION MAP qs_NW262202,
BUT DOES NOT CONSTITUTE A LEGAL SURVEY AND SHOULD BE CONSIDERED APPROXIMATE ONLY.



SITE PLAN - EXISTING
1" = 20'-0"



General Notes

No.	Revision/Issue	Date
		1.28.22

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20501 81st Ave SW
Vashon, WA 98070
206.463.5311 - phone
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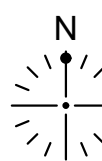
Project Name and Address
GENTRY SMITH BULKHEAD
25630 Bates Walk SW
Vashon, Washington 98070

Project GENTRY SMITH	Sheet C2
Date 28 DEC 2021	
Drafter DSD	Engineer STK

Benchmarks & Bearings Table				
Point	Bulkhead Height (in)	Magnetic Bearing from Benchmark	Distance to Benchmark (ft)	Distance to Next Point (ft)
0	82.5"	183	51.8	11
1	82.5"	188	42.6	11
2	81.5"	192	31.8	11
3	78.75"	211	23	11
4	81.5"	233	15.5	6.16
5	80.5"	254	13.6	1.25
6	80.5"	256	15.3	1.58
7	81.5"	257	16.6	4.33
8	82"	270	17.5	-



NOTE:
SITE PLAN HAS BEEN ESTABLISHED THROUGH KING COUNTY GIS INFORMATION AND QUARTER SECTION MAP qs_NW262202,
BUT DOES NOT CONSTITUTE A LEGAL SURVEY AND SHOULD BE CONSIDERED APPROXIMATE ONLY.



SITE PLAN - EXISTING - BENCHMARKS

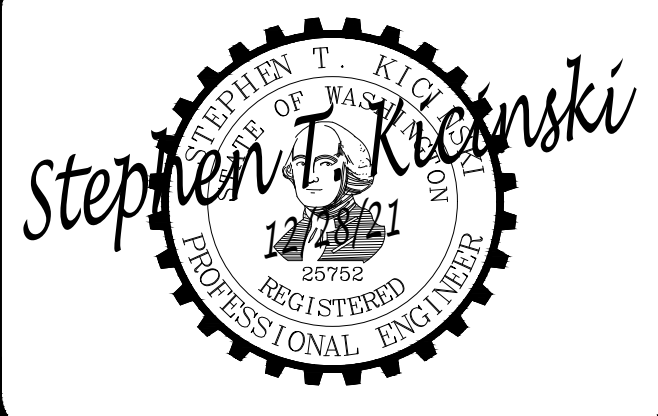
1" = 10'-0"



General Notes

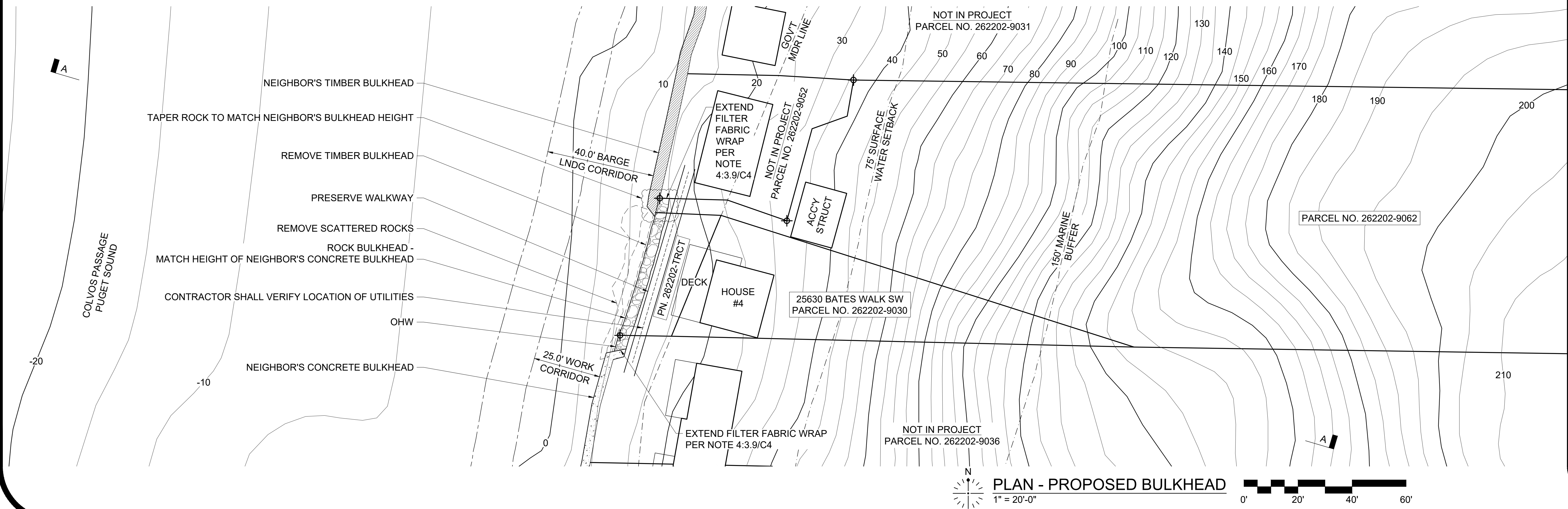
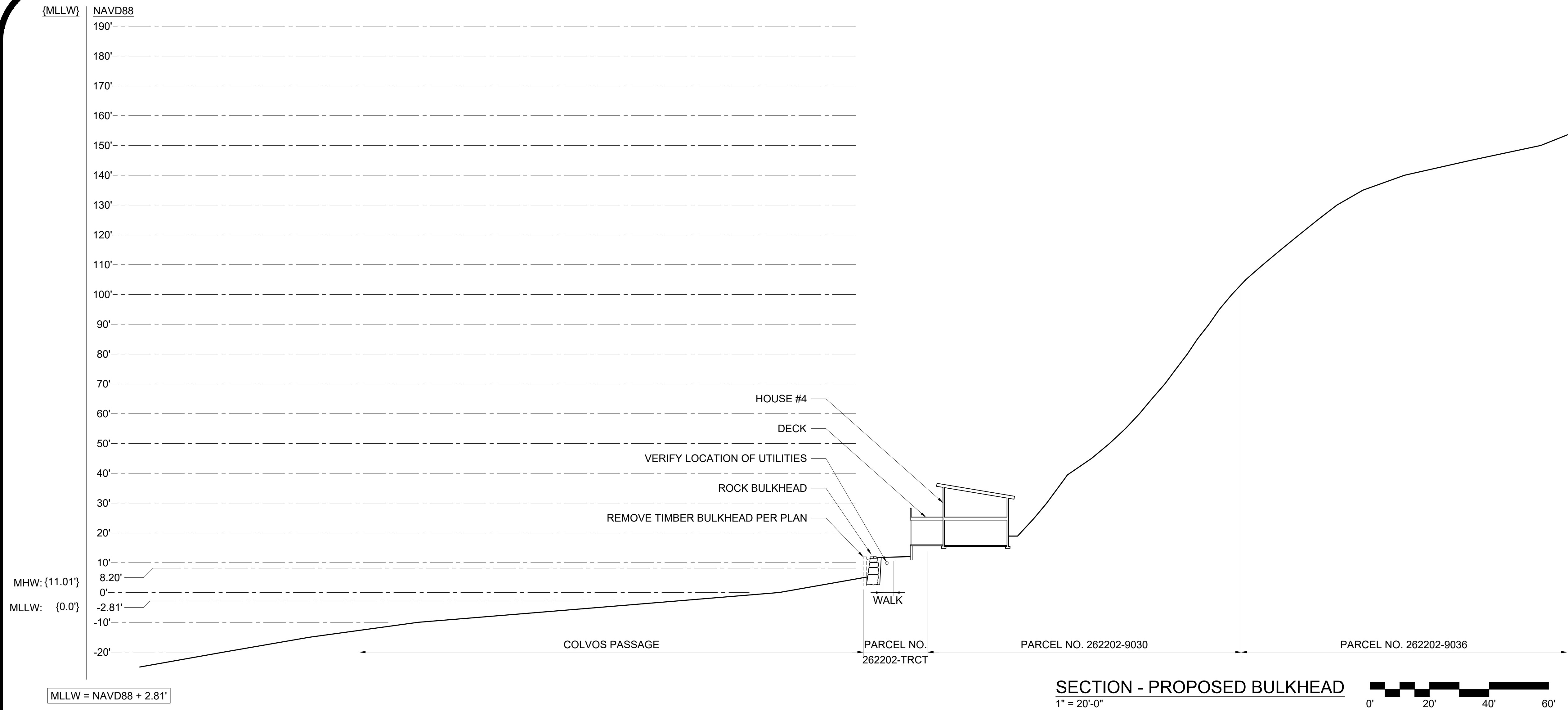
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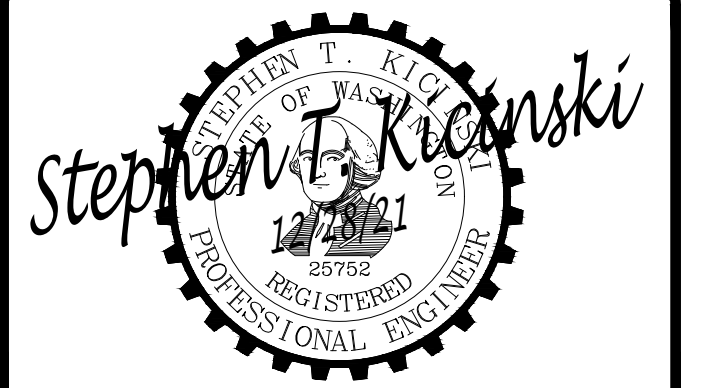
Project GENTRY SMITH	Sheet C2.1
Date 28 DEC 2021	
Drafter DSD	Engineer STK



General Notes

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Vashon, Washington 98070

Project GENTRY SMITH	Sheet C3
Date 28 DEC 2021	
Drafter DSD	Engineer STK

PART 1: GENERAL

1. THE CONTRACTOR SHALL OBTAIN AND CONFORM TO ALL LOCAL AND STATE PERMITS REQUIRED TO COMPLETE THE WORK. IF PERMIT REQUIREMENTS CONFLICT WITH THESE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND ENGINEER OF RECORD OF ANY CONFLICTS, SO THAT MODIFICATIONS TO THE PLANS CAN BE PROVIDED, AS APPROPRIATE.
2. WORK SHALL INCLUDE FURNISHING ALL MATERIALS, LABOR, EQUIPMENT, AND SUPERVISION FOR CONSTRUCTION OF THE ROCK BULKHEAD IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS, AND IN GENERAL CONFORMANCE WITH THE LINES, GRADES, DESIGN, AND DIMENSIONS SHOWN ON THE DRAWINGS OR AS ESTABLISHED BY THE OWNER OR THE OWNERS' REPRESENTATIVE.
3. THE CONTRACTOR SHALL CONTACT THE ONE-CALL UNDERGROUND UTILITY LOCATION SERVICE AT 1-800-424-5555 TO HAVE ANY AND ALL UTILITIES LOCATED AT LEAST 2 FULL BUSINESS DAYS PRIOR TO BEGINNING SITE EXCAVATION.
4. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE CONTRACT DOCUMENTS, NOTES AND THE INTERNATIONAL BUILDING CODE.
5. DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY AND STABILITY OF THE ADJACENT PROPERTIES AND DOWNGRADE AREAS.
6. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION PROCEDURES INCLUDING EXCAVATION OF EXCESS SOIL, PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS, AND UTILITIES IN ACCORDANCE WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL SAFETY REGULATIONS.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES, AND SHALL CHECK AND VERIFY ALL DIMENSIONS. ALL DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER *IN WRITING* AND SHALL BE RESOLVED BEFORE PROCEEDING WITH THE WORK.
8. THE DRAWINGS INDICATE THE TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED, BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED SUBJECT TO REVIEW BY THE STRUCTURAL ENGINEER.
9. ALL INFORMATION SHOWN ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE BUT WITHOUT ANY GUARANTEE OF WARRANTY OF ACCURACY. WHERE ACTUAL CONDITIONS CONFLICT WITH THE DRAWINGS, THEY SHALL BE REPORTED IN WRITING TO THE STRUCTURAL ENGINEER SO THAT PROPER REVISIONS MAY BE DEVELOPED. MODIFICATIONS OF DETAILS OF CONSTRUCTION SHALL NOT BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
10. ANY AND ALL CONTRACTOR INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ENGINEER FOR APPROVAL PRIOR TO IMPLEMENTATION OF THE CONSTRUCTION.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES REQUIRED TO PERFORM THE WORK.
12. VEGETATION REMOVAL UPSLOPE FOR THE BULKHEAD SHALL BE MINIMIZED. PRESERVE ALL TREES.
13. CONTRACTOR TO MAINTAIN REASONABLE ACCESS TO BOTH PARKING AREA AND PATHWAY TO NEIGHBORING PROPERTIES DURING CONSTRUCTION.
14. AT CONSTRUCTION COMPLETION, THE CONTRACTOR SHALL PERFORM FINAL CLEANUP OF THE SITE. FINAL CLEANUP INCLUDES, BUT IS NOT LIMITED TO:
- 1) REMOVAL OF ALL RUBBISH, SURPLUS MATERIALS AND DISCARDED MATERIALS.
 - 2) REMOVAL AND PROPER DISPOSAL OF ALL TREATED PILES.
 - 3) REMOVAL OF ALL EQUIPMENT.
 - 4) RESTORATION OF PARKING AREA AND ROAD, REMOVING TIRE TRACKS AND FILLING POTHOLEs.
 - 5) FINAL GRADING PER PLANS.
15. THE OWNER OR OWNERS REPRESENTATIVE SHALL WALK THROUGH WITH THE CONTRACTOR WHEN FINAL CLEANUP IS COMPLETE.

PART 2: MATERIALS

1. BULKHEAD ROCK SHALL BE NON-WEATHERED, ANGULAR, HARD, SOUND, AND DURABLE. ROCK SHALL BE FREE OF SEAMS, CRACKS, AND OTHER DEFECTS THAT REDUCE ITS RESISTANCE TO WEATHER. ROCK SHALL HAVE A MINIMUM DENSITY OF 160 POUNDS PER CUBIC FOOT. THE ROCK TYPE IDENTIFIED BY THE CONTRACTOR SHALL BE APPROVED BY THE OWNER PRIOR TO MOBILIZATION. APPROXIMATE ROCK SIZE IS PRESENTED IN THE TABLE BELOW.
2. QUARRY SPALLS SHALL CONSIST OF 2 TO 6 INCH CRUSHED ROCK THAT CONFORMS TO SECTION 9-13.7(2) OF THE 2018 WSDOT STANDARD SPECIFICATIONS.
3. PERMEABLE BALLAST SHALL CONFORM TO SECTION 9-03.9(2) OF THE 2018 WSDOT STANDARD SPECIFICATIONS.
4. STORMWATER DISPERSION PIPE SHALL CONSIST OF NOMINAL 6-INCH DIAMETER PERFORATED CORRUGATED DOUBLE WALL N-12 HIGH DENSITY POLYETHYLENE (HDPE) PIPE, 6-INCH NOMINAL DIAMETER SDR11 PERFORATED SOLID WALL HDPE PIPE, OR NOMINAL 6-INCH DIAMETER SCHEDULE 40 PVC PIPE. THE PERFORATED DISPERSION PIPE SHALL HAVE A MINIMUM WATER INLET AREA (WIA) OF 1.5 SQUARE INCHES PER LINEAR FOOT OF PIPE. DISPERSION PIPE AND PIPE JOINTS SHALL BE COMPATIBLE WITH REROUTED STORM WATER TIGHTLINE PIPES.
5. GEOTEXTILE FILTER FABRIC SHALL CONSIST OF MIRAfi FW403, OR APPROVED EQUIVALENT.
6. BEACH NOURISHMENT MATERIAL AND PLACEMENT SHALL CONFORM TO WASHINGTON STATE DEPARTMENT OF FISH AND WILDLIFE PROJECT PERMIT REQUIREMENTS.

PART 3: DESIGN CRITERIA

1. ALLOWABLE BEARING CAPACITY OF 1500 PSF BASED ON THE 2018 INTERNATIONAL BUILDING CODE, UNLESS A SITE-SPECIFIC GEOTECHNICAL ENGINEERING REPORT IS PROVIDED.
2. SITE PLAN TOPOGRAPHY WAS OBTAINED FROM THE KING COUNTY GIS WEBSITE, WHICH USES NAVD88 AS THE VERTICAL DATUM.

PART 4: EXECUTION

1. VERIFICATION OF EXISTING SITE CONDITIONS
- 1) THE CONTRACTOR SHALL VERIFY ON-SITE GRADES AND CONDITIONS PRIOR TO CONSTRUCTION. THE OWNER AND THE ENGINEER-OF-RECORD SHALL BE IMMEDIATELY NOTIFIED IF ON-SITE CONDITIONS DIFFER FROM THE BULKHEAD DESIGN DRAWINGS.
2. EXCAVATION
- 1) THE CONTRACTOR SHALL EXCAVATE TO THE LINES AND GRADES REQUIRED FOR CONSTRUCTION OF THE BULKHEAD, AS SHOWN ON THE DESIGN DRAWINGS.
 - 2) THE CONTRACTOR SHALL DIVERT SURFACE WATER AND PROVIDE TEMPORARY DEWATERING AS REQUIRED TO PREPARE THE BULKHEAD'S SUBGRADE SOILS.
 - 3) THE CONTRACTOR SHALL PROTECT EXISTING SITE FEATURES, OFF-SITE FEATURES, AND SITE IMPROVEMENTS FROM DAMAGE DURING CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, THE LARGE TREE NEAR THE BULKHEAD. TEMPORARY EXCAVATION STABILITY AND SHORING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
 - 4) THE EXISTING SITE SOILS ALONG THE SHORELINE, PRONE TO WAVE AND TIDAL EROSION WHEN EXPOSED, SHALL BE REMOVED FROM THE SITE UNLESS DISPERSAL OF THE SOIL ON THE BEACH AS NOURISHMENT IS PERMITTED BY THE WASHINGTON STATE DEPARTMENT OF FISH AND WILDLIFE.
 - 5) SITE EXCAVATIONS SHALL BE COMPLETED IN SECTIONS TO REDUCE THE POTENTIAL FOR TEMPORARY SLOPE INSTABILITY. ONE CONSTRUCTION SECTION SHALL BE EQUAL TO THE LENGTH OF BULKHEAD THAT CAN BE EXCAVATED, BACKFILLED, AND CONSTRUCTED IN ONE WORK DAY.

3. BULKHEAD AND ROCKERY CONSTRUCTION

- 1) THE BULKHEAD SHALL BE FOUNDED ON FIRM AND UNYIELDING NATIVE SOILS.
- 2) THE BULKHEAD FACE BATTER SHALL BE 8 VERTICAL TO 1 HORIZONTAL.
- 3) ROCK SHALL DECREASE IN SIZE FROM THE BOTTOM TO THE TOP OF THE BULKHEAD AT A UNIFORM RATE. REFER TO THE ROCK SIZE DESIGNATION TABLE FOR SPECIFIC ROCK SIZES. CONTRACTOR SHALL NOT SUBSTITUTE A SMALLER ROCK THAN THAT SPECIFIED IN THE TABLE.
- 4) EMBEDMENT OF THE LOWEST COURSE OF ROCK SHALL BE A MINIMUM OF 24 INCHES BELOW EXISTING BEACH ELEVATION AT THE FACE OF THE BULKHEAD.
- 5) THE LONG DIMENSION OF THE ROCK SHALL EXTEND PERPENDICULAR TO THE ROCK FACE.
- 6) ROCKS SHALL BE PLACED TO AVOID CONTINUOUS JOINT PLANES IN VERTICAL OR LATERAL DIRECTIONS. EACH ROCK SHALL BEAR ON TWO OR MORE ROCKS BELOW IT, WITH GOOD FLAT-TO-FLAT ROCK CONTACT.
- 7) QUARRY SPALL BACKFILL BEHIND THE BULKHEAD SHALL BE PLACED BEHIND EACH COURSE AND TAMPED TO PROVIDE A STABLE CONDITION PRIOR TO PLACING ROCKS FOR THE NEXT SUCCESSIVE COURSE.
- 8) GEOTEXTILE FABRIC SHALL COVER THE BOTTOM OF THE WALL EXCAVATION, EXTEND UP THE CUT FACE, AND COVER THE TOP OF THE QUARRY SPALL BACKFILL. GEOTEXTILE FABRIC JOINTS SHALL OVERLAP AT LEAST 18 INCHES.
- 9) CONTRACTOR TO EXTEND FILTER FABRIC ALONG BOTH PROPERTY LINES TO MITIGATE NEIGHBORING PROPERTIES SOIL LOSS.
- 10) ROCK WALLS ARE PRIMARILY EROSION CONTROL STRUCTURES. NATIVE MATERIALS MUST BE STABLE AND FREE STANDING IN CUT FACE.

4. QUALITY CONTROL

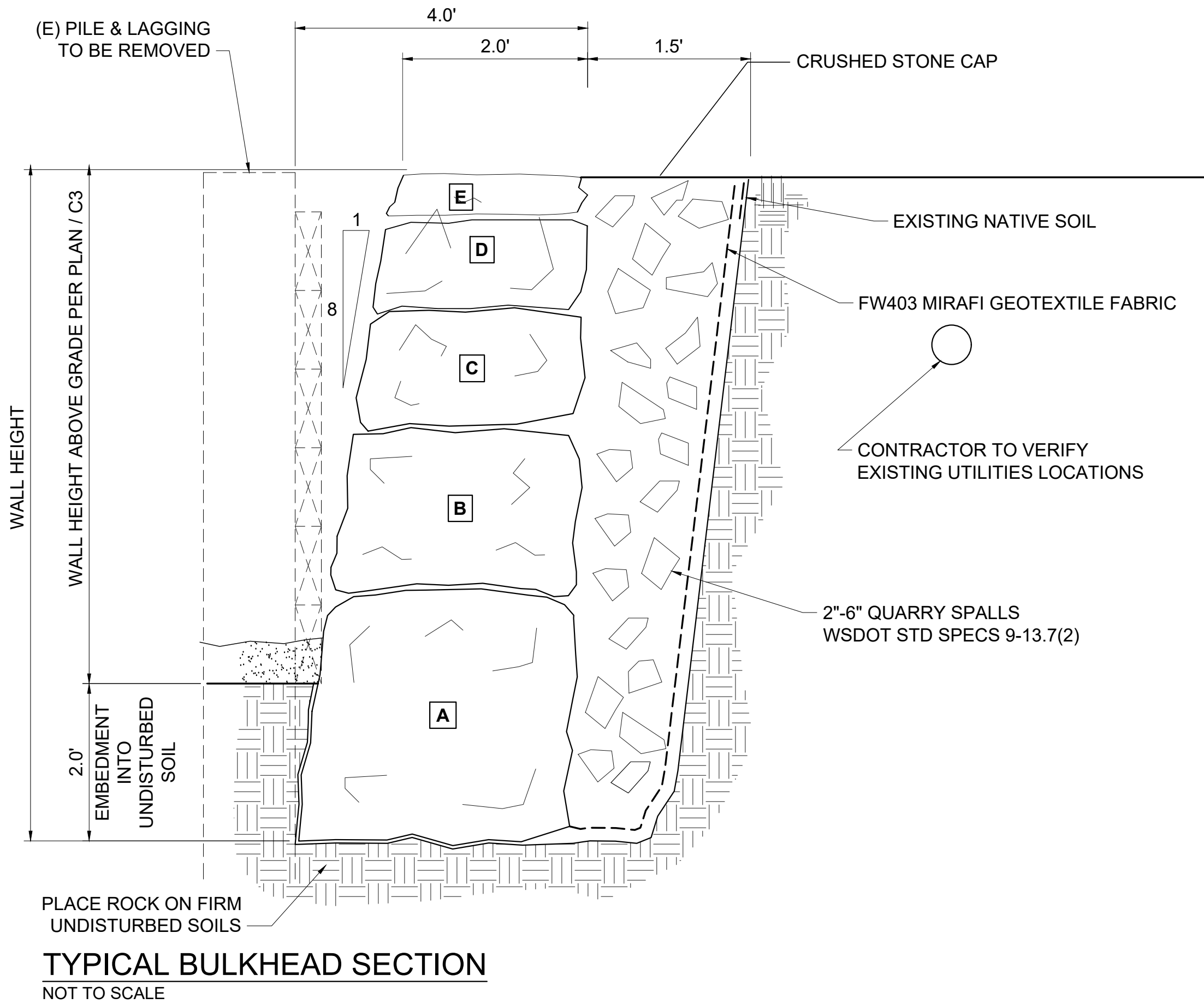
- 1) WE RECOMMEND THAT THE OWNER RETAIN THE ENGINEER-OF-RECORD TO PERFORM PERIODIC OBSERVATIONS DURING CONSTRUCTION.
- 2) THE ABOVE FIELD OBSERVATIONS DO NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO MEET THE MORE STRINGENT OF THE DESIGN DRAWINGS, PERMIT REQUIREMENTS, OR OTHER MANUFACTURER'S REQUIREMENTS.

PART 5: SPECIAL DESIGN PROVISIONS

1. THE BULKHEAD SHALL BE COMPLETED IN GENERAL ACCORDANCE WITH THESE PLANS AND THE CURRENT EDITION OF THE ASSOCIATED ROCKERY CONTRACTORS (ARC) STANDARD ROCK WALL CONSTRUCTION GUIDELINES.
2. IF SITE CONDITIONS OR DESIGN PARAMETERS ARE DIFFERENT THAN WHAT HAS BEEN PRESENTED HEREIN, THE OWNER AND ENGINEER-OF-RECORD SHALL BE NOTIFIED IMMEDIATELY.
3. ANY REVISIONS TO DESIGN PARAMETERS OR PROPOSED BULKHEAD GEOMETRY MAY REQUIRE DESIGN MODIFICATIONS PRIOR TO PROCEEDING WITH CONSTRUCTION.

ROCK SIZE DESIGNATION						
WALL HEIGHT (FEET)	HEIGHT ABOVE GRADE (FEET)	A	B	C	D	E
6	4	4	3	3	2	
8	6	5	4	4	3	
10	8	6	5	4	3	3
12	10	6	5	5	4	4
						NUMBER IN TABLE IS EQUAL TO ROCK SIZE

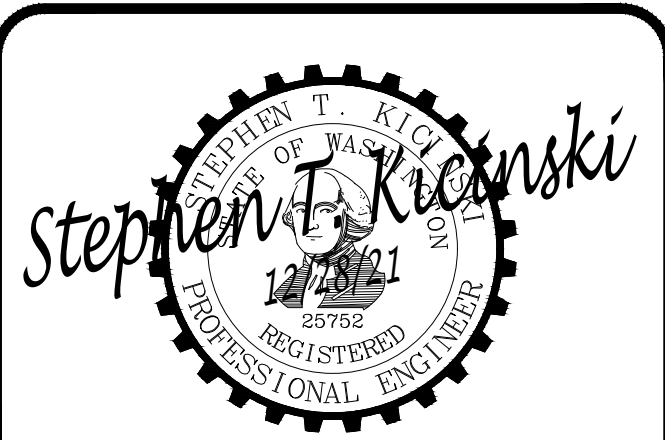
APPROXIMATE ROCK SIZES		
ROCK SIZE	AVERAGE DIMENSION (IN)	ROCK WEIGHT (LBS)
ONE-MAN	12-18	50-150
TWO-MAN	18-28	200-700
THREE-MAN	28-36	700-2,000
FOUR-MAN	36-48	2,000-4,000
FIVE-MAN	48-54	4,000-6,000
SIX-MAN	54-60	6,000-8,000



General Notes

No.	Revision/Issue	Date
		1.28.22

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ELLISPORT ENGINEERING, INC.
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Vashon, WA 98070
206.463.5311 - phone
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25630 Bates Walk SW
Vashon, Washington 98070

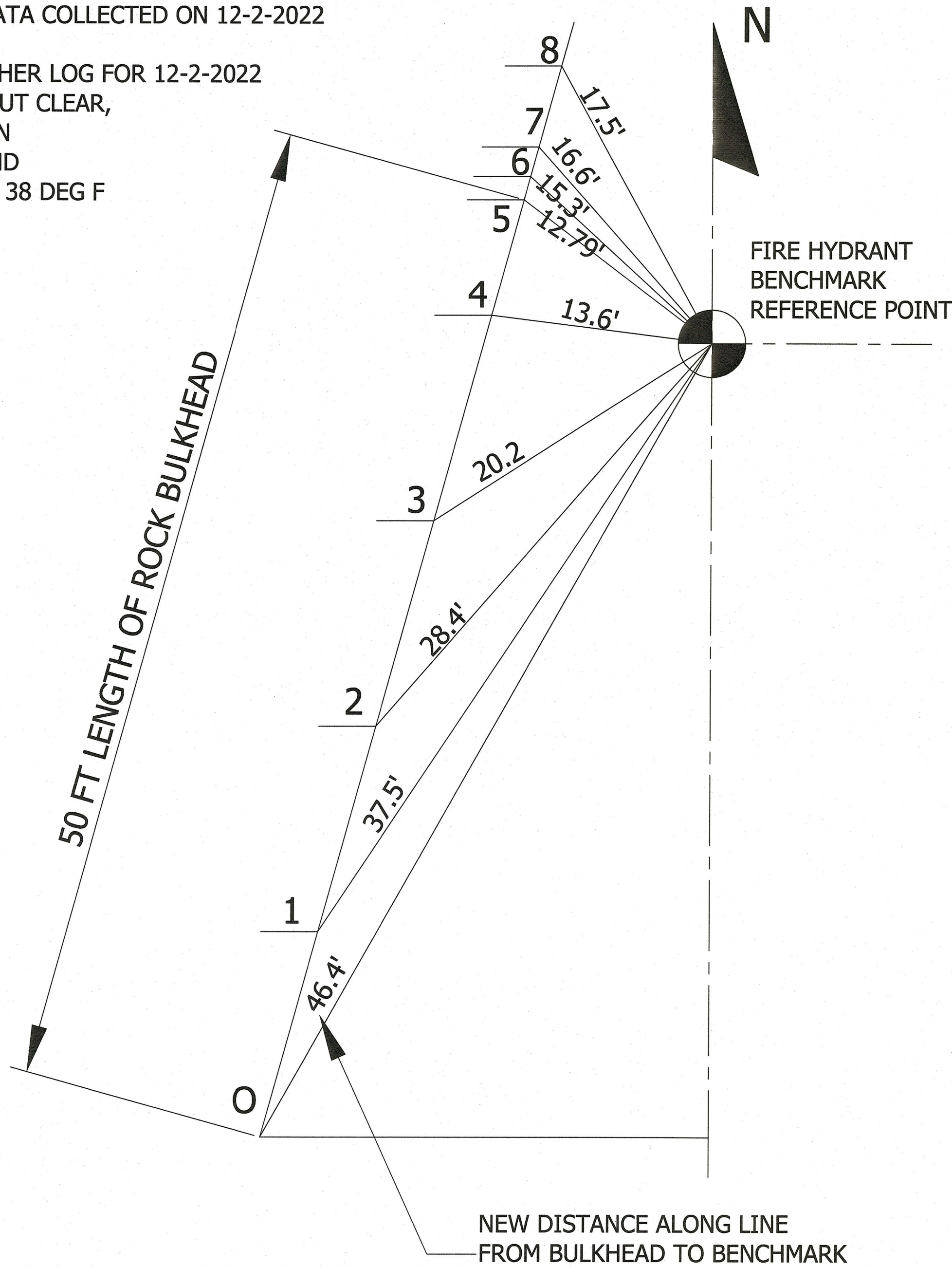
Project GENTRY SMITH	Sheet C4
Date 28 DEC 2021	
Drafter DSD	Engineer STK

12-2-2022 REVISED BENCHMARK AND BEARING TABLE

POINT	BULKHEAD HEIGHT ABOVE SAND (in)	MAGNETIC BEARING FROM BENCHMARK	DISTANCE TO BENCHMARK	DISTANCE TO NEXT POINT
0	56"	178 S	46'-5"	0 to 11'-0"
1	61"	185 S	37'-6"	11'-0"
2	66"	191 S	28'-5"	11'-0"
3	66"	209 SW	20'-2-1/2"	11'-0"
4	72"	231 SW	13'-7-1/2"	6'-2"
5	75"	254 W	12'-9-1/2"	1'-3"
6	80-1/2"	256 W	15'-3-1/2"	1'-7"
7	81-1/2"	257 W	16'-7-1/2"	4'-4"
8	82"	270 W	17'-6-1/2"	NA

NEW DATA COLLECTED ON 12-2-2022

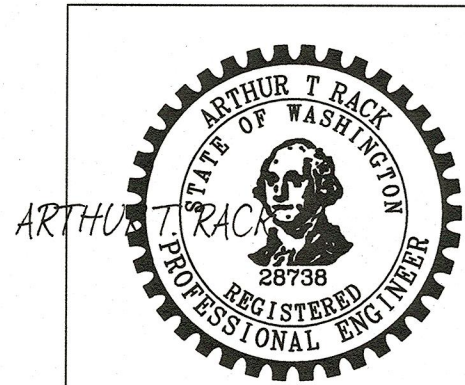
WHEATHER LOG FOR 12-2-2022
COLD BUT CLEAR,
NO RAIN
NO WIND
TEMPT. 38 DEG F



12-2-2022 REVISED DIMENSIONS
FROM NEW ROCK BULKHEAD TO BENCHMARK

SCALE 1:5 +/-

NOTE: SEE DRAWING C/2.1 BY ELLISPORT ENGINEERING
FOR ORIGINAL LAYOUT AND DIMENSIONS

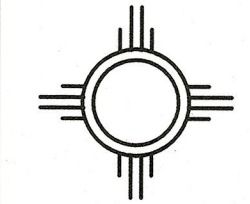


New Data for Rock
Bulkhead

REVISIONS

Gentry Smith Bulkhead
25630 Bates Walk SW
Vashon, WA. 98070

ATR ENGINEERING Inc.
9929 SW 206th Ct.
VASHON, WA.
(206) 463-5735

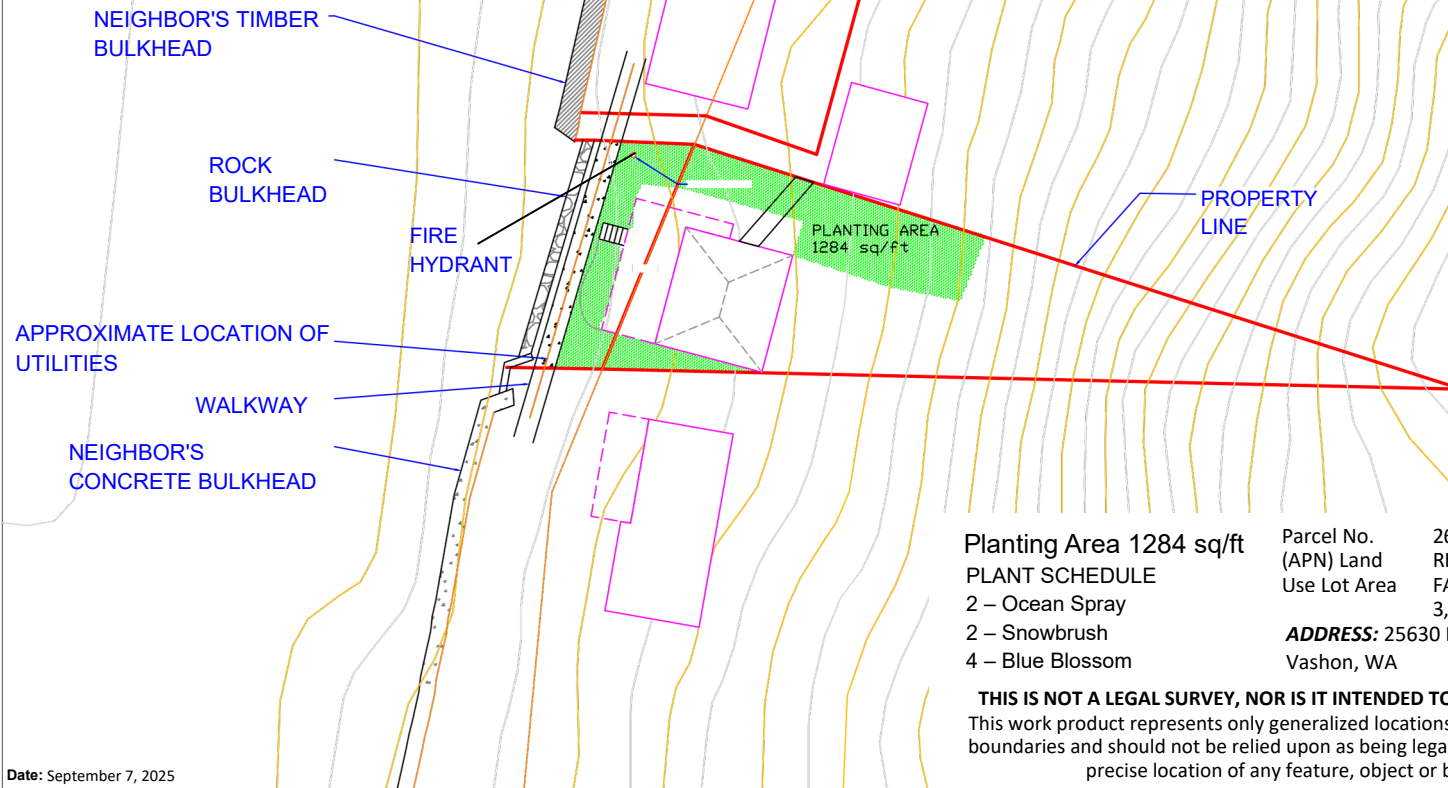


By ATR, P.E.
DATE
12-2-2022

FILE
gentry
Job #12022022

PLANTING PLAN

0 10 20 UNIT: FEET 60



Date: September 7, 2025