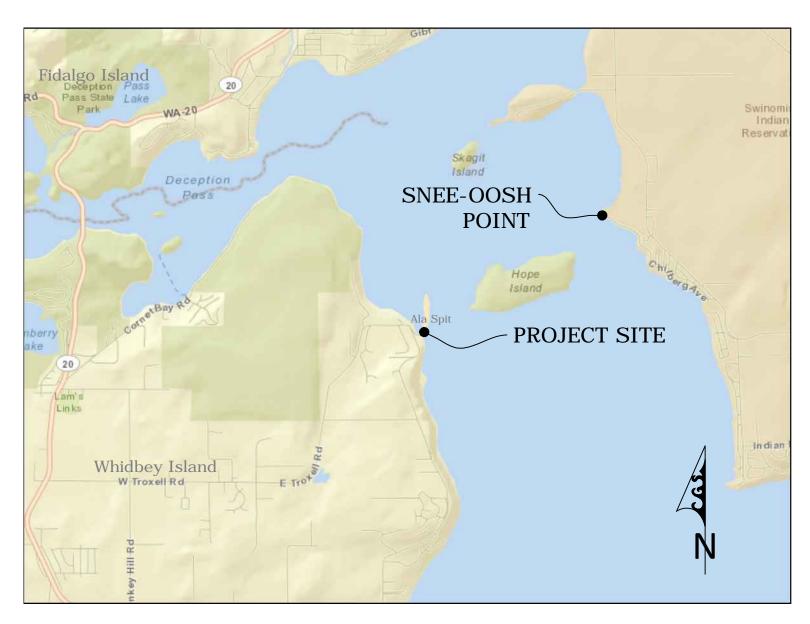
## VICINITY MAP:



DRIVING DIRECTIONS:

From WA-20 turn east on West Troxell Rd. Follow for 3.8 miles and turn left onto Geck Rd. Parking is available at the base of the spit.

INDEX				INDEX		
SHEET #	PLAN REF NO	TITLE	SHEET #	SHEET # PLAN REF NO TITLE		
1	CV	COVER SHEET, VICINITY MAP, AND INDEX	9	DP1	DEMOLITION PLAN - SITE PLAN	
2	LG	LEGEND AND NOTES	10	DP2	DEMOLITION PLAN - DETAILS	
3	EC1	EXISTING CONDITIONS - OVERVIEW	11	GP1	GRADING PLAN - GROIN AND SOUTH NOURISHMENT	
4	EC2	EXISTING CONDITIONS - DETAIL A	12	GP2	GRADING PLAN - GRAVEL SUBLAYER	
5	EC3	EXISTING CONDITIONS - DETAIL B	13	GP3	GRADING PLAN - NOURISHMENT SURFACE	
6	EC4	EXISTING CONDITIONS - DETAIL C	14	CS1	CROSS SECTIONS	
7	TESC1	TEMPORARY EROSION & SEDIMENTATION CONTROL - SITE PLAN	15	CS2	CROSS SECTIONS	
8	TESC2	TEMPORARY EROSION & SEDIMENTATION CONTROL - DETAILS	16	CS3	CROSS SECTIONS	



**ISLAND COUNTY ENGINEEI** 1 NE 6th Street Coupeville, WA 98239-5000 Tel: 360-679-7331 \* Fax: 360-678-4550

Office of the



SURVEYED BY: Jonathan Waggoner, CGS Adam Morrow, PLS, PSE	3/20-21 FEB. 201	DATE: /14, 11/6/14 5	
DRAWN BY:		DATE PLOTTED:	
Jonathan Waggoner, CGS		4/30/15	
DESIGNED BY:	INITIAL	DATE	
Jim Johannessen, LEG	JMJ	4/30/15	
CHECKED BY:			
Alexis Blue, PE	ACB	4/30/15	Г
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# ALA SPIT RESTORATION PROJECT NEARSHORE RESTORATION AND ARMOR REMOVAL SECT. 32, TWP. 34 N., R. 2 E., W.M.

JL No. 00462-0004

ISLAND COUNTY COMMISSIONERS Helen Price Johnson, District 1 Jill Johnson, District 2 Richard Hannold, District 3

RECOMMENDED FOR APPROVAL

Alexis C. Blue, P.E. Project Engineer

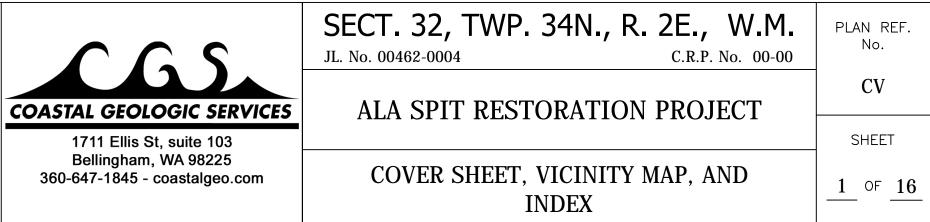
			SCALE:
4/30/15	ISLAND COUNTY COMMENTS – 100%	ADT	
4/20/15	ISLAND COUNTY COMMENTS – 100%	ADT	SCAL
4/9/15	ISLAND COUNTY COMMENTS – 90%	JFW	PRIN
DATE	REVISIONS	BY	

SCALE APPLIES TO FULL SIZE (22" x 34") PRINTS ONLY. SCALE ACCORDINGLY FOR PRINTS OF OTHER SIZES.

APPROVED BY:

William E. Oakes, P.E. Director/County Engineer

Connie W. Bowers, P.E. Asst. County Engineer



LEGEND: PLAN LINES		
FEATURE	EXISTING	PROPOSED
CONTOURS, MAJOR CONTOURS, MINOR	# #	
PAVEMENT		
CONCRETE ROCK ARMOR		
MEAN HIGHER HIGH WATER (MHHW)		
LOG LINE EXTENT OF UPLAND MUSCLE BEDS		· ·
VEGETATION LINE		
STORM DRAIN	— — D — — — D — — —	
LIMIT OF DISTURBANCE CONSTRUCTION ACCESS CORRIDOR		
SILT FENCE		

LEGEND: HATCH/SYMBOLS	
FEATURE	EXISTING
ROCK ARMOR	
COBBLE	
CONCRETE	
CONSTRUCTION ACCESS	
STOCKPILE AREA	
STAGING/PARKING AREA	
SEDIMENT BORROW AREA	
BEACH NOURISHMENT AREA	

	NAD83 State Plan WA North based on DGPS	MHHW:		
			Mean Higher High W	ater
	observation	MHW:	Mean High Water	
		MLW:	Mean Low Water	
Vertical Datum:	Local mean lower low water (MLLW) based on	MLLW:	Mean Lower Low Wa	ater
	NAVD88 elevation for NGS monument TIDAL 1	MTL:	Mean Tide Level	
	(+10.71 ft NAVD88) and published conversion	MSL:	Mean Sea Level	
	from NOAA benchmark at Sneeoosh Point			
	(#9448576)			
	0  ft NAVD88 = +2.02  ft MLLW			
	MHHW = +11.06  ft MLLW			

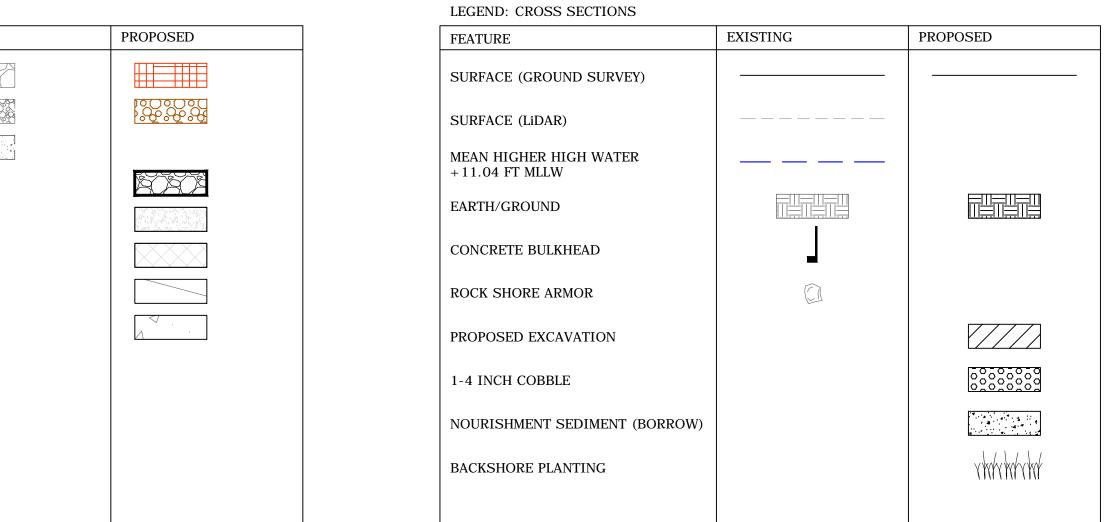
Topographic data initially obtained 3/20-21/14 with limited updates at neck of spit on 11/6/14. Additional topographic surveying at the base of the spit completed by Pacific Survey & Engineering from existing control in February 2015.

Additional topographic data obtained from the Puget Sound LiDAR Consortium, flown February 2002, show for reference only outside of primary action area for additional detail on bluffs, etc.

MONUME	ENT LIST:		
NAME	EASTING	NORTHING	ELEV. (MLLW)
PK1	1214258.07'	513062.25'	15.42'
PK2	1214412.57'	512973.95'	13.82'
PK3	1214441.54'	513007.69'	14.12'
TIDAL1	1214611.60'	514244.56'	12.72'

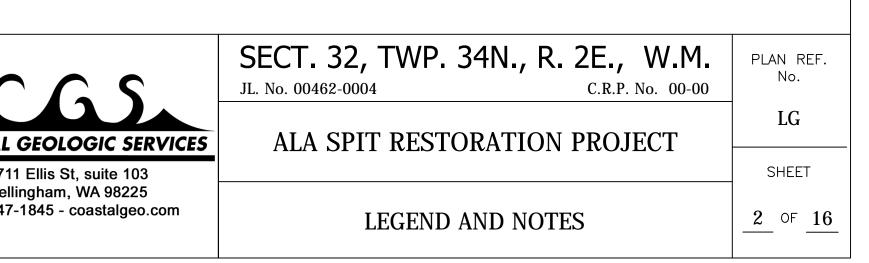


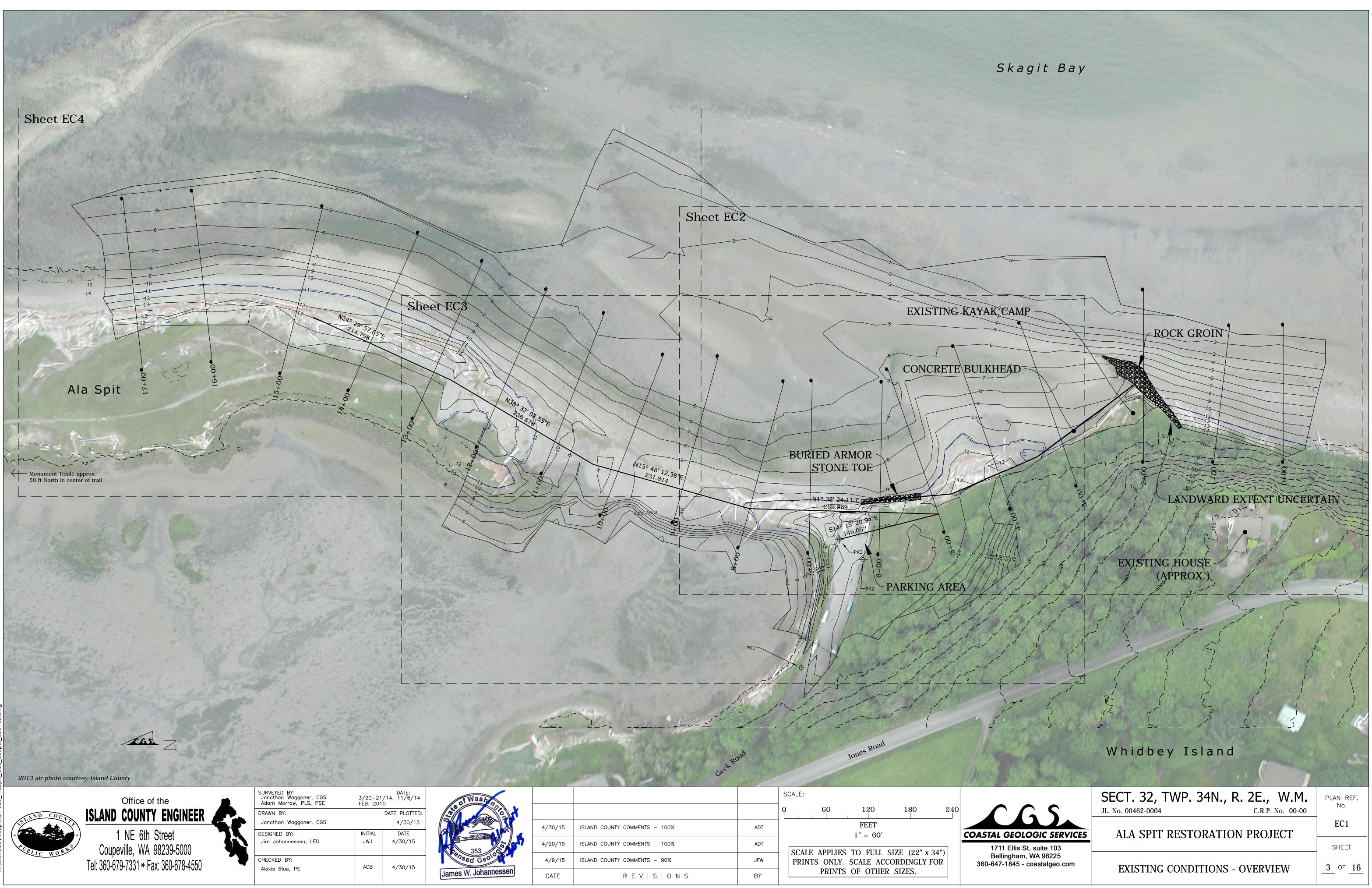




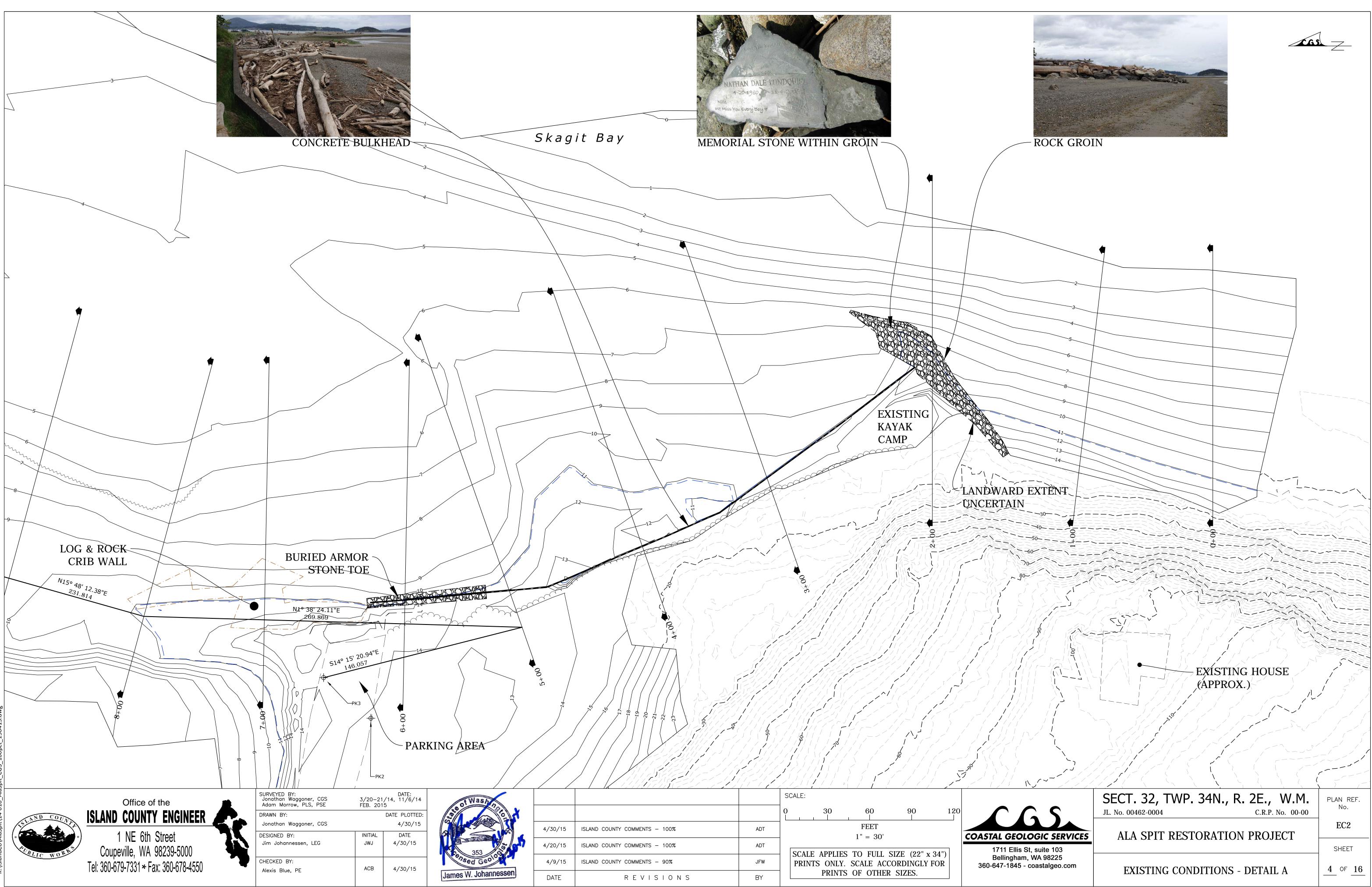
T MLLW)	TIDAL DATUM
11.06 — 10.20 —	— MHHW (Mean Higher High Water) — MHW (Mean High Water)
6.39 —	— MTL/MSL (Mean Tide Level/Mean Sea Level)
2.57 - 2.02 - 2.02	— MLW (Mean Low Water) — NAVD88
0.00 —	— MLLW (Mean Lower Low Water)

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Geolo	4/9/15	SURVEY NOTES	JFW	PRINTS ONLY. SCALE ACCORDINGLY FOR	Bellin 360-647-1
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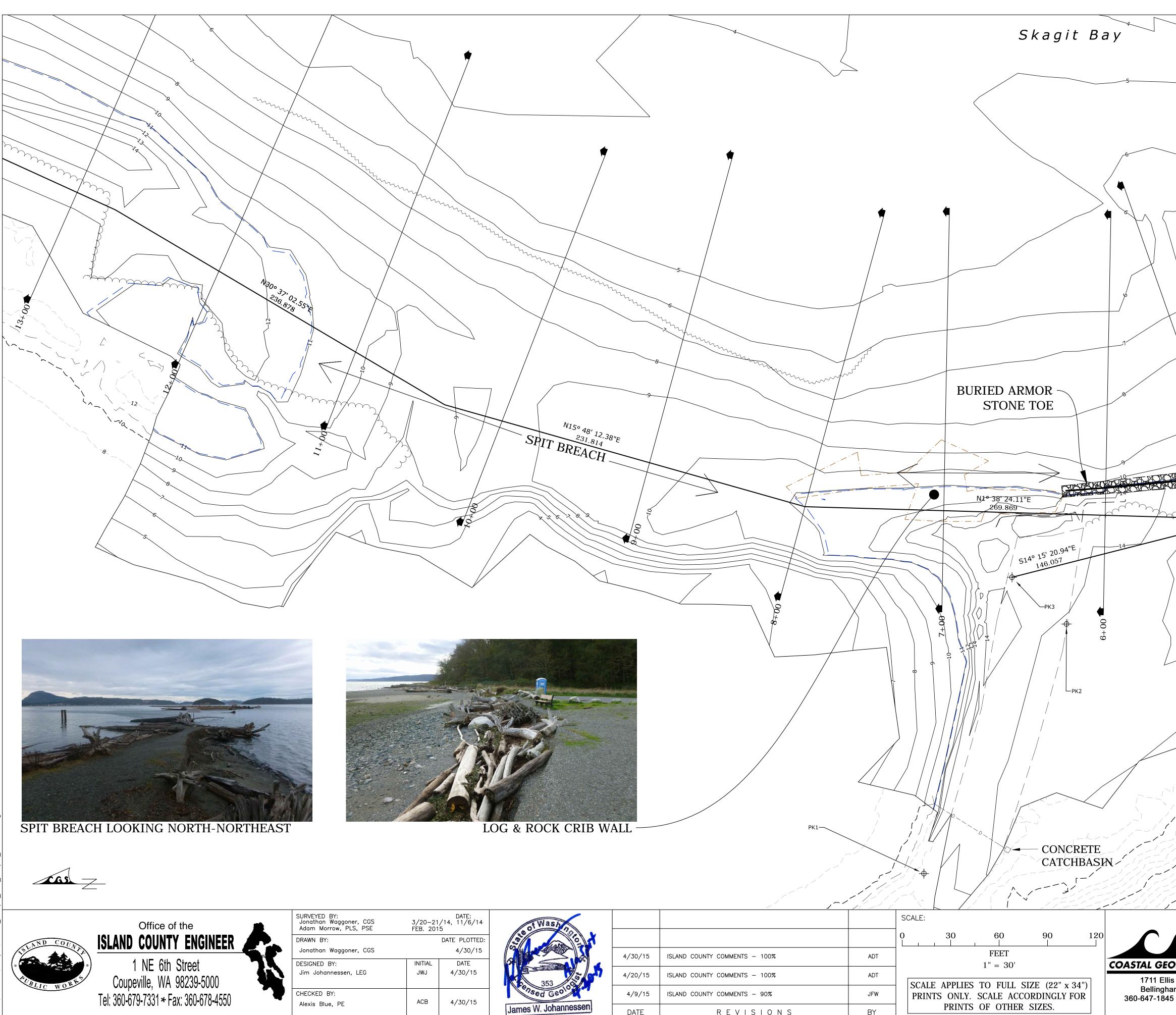
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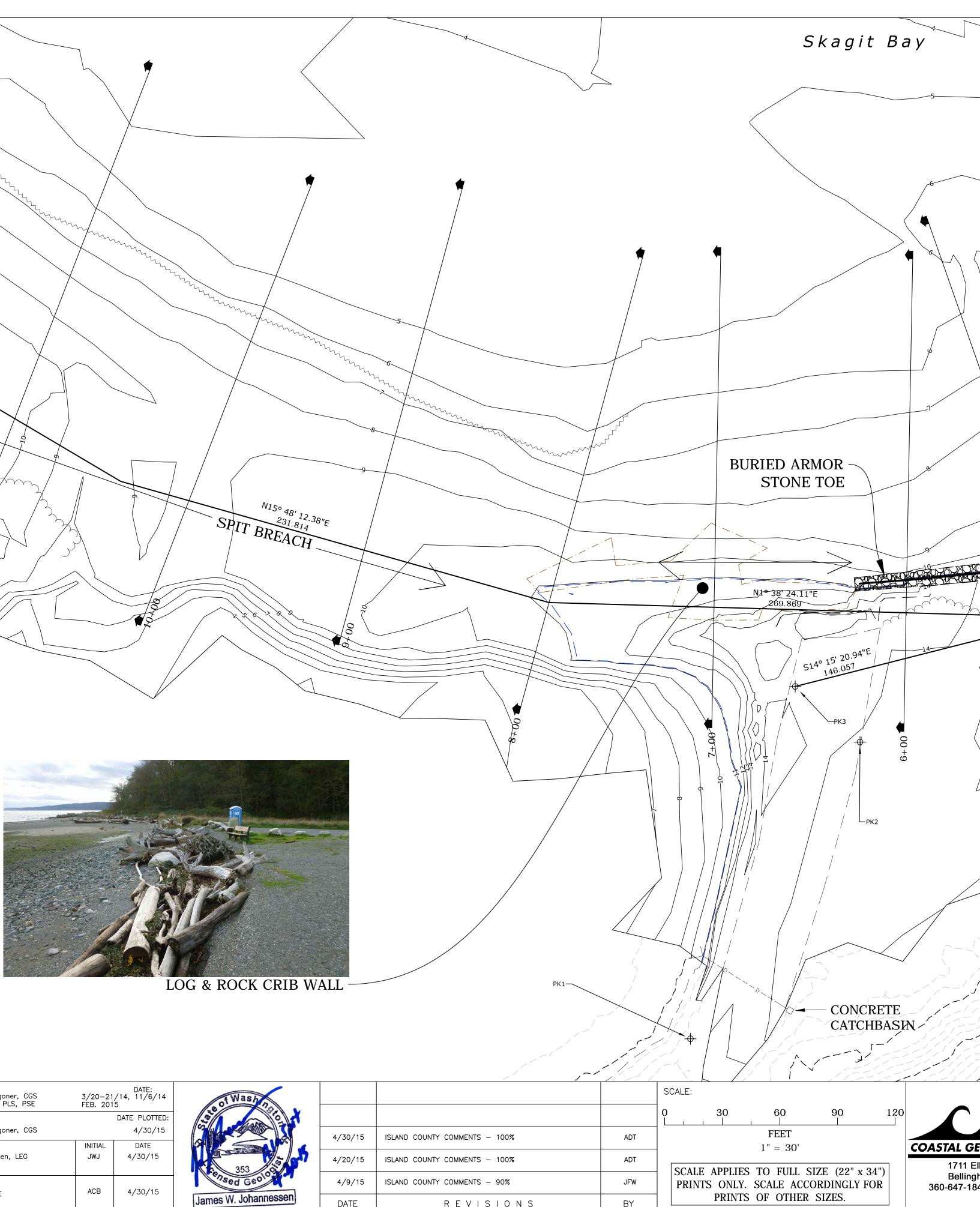
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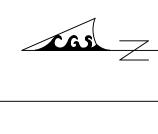




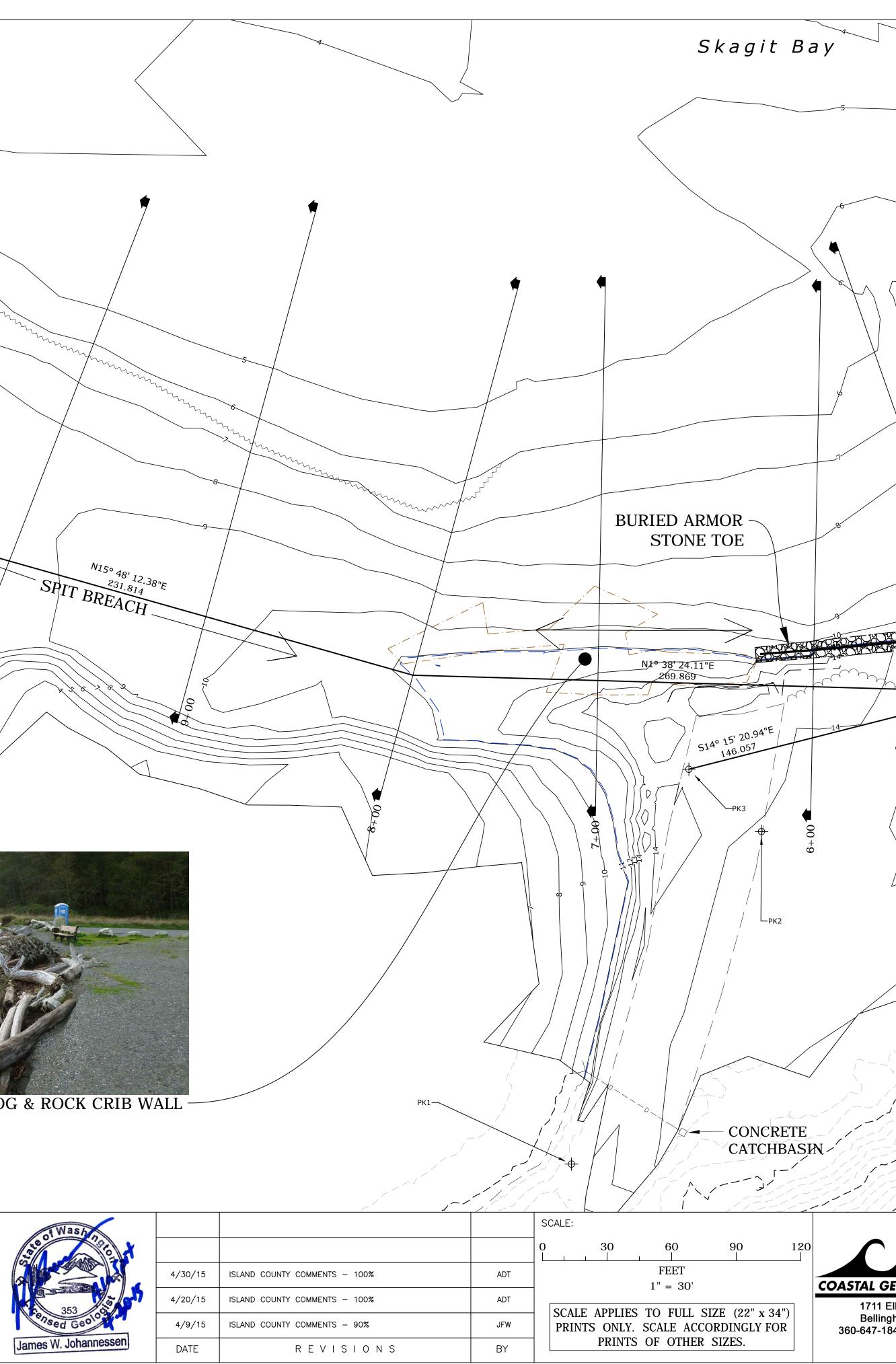




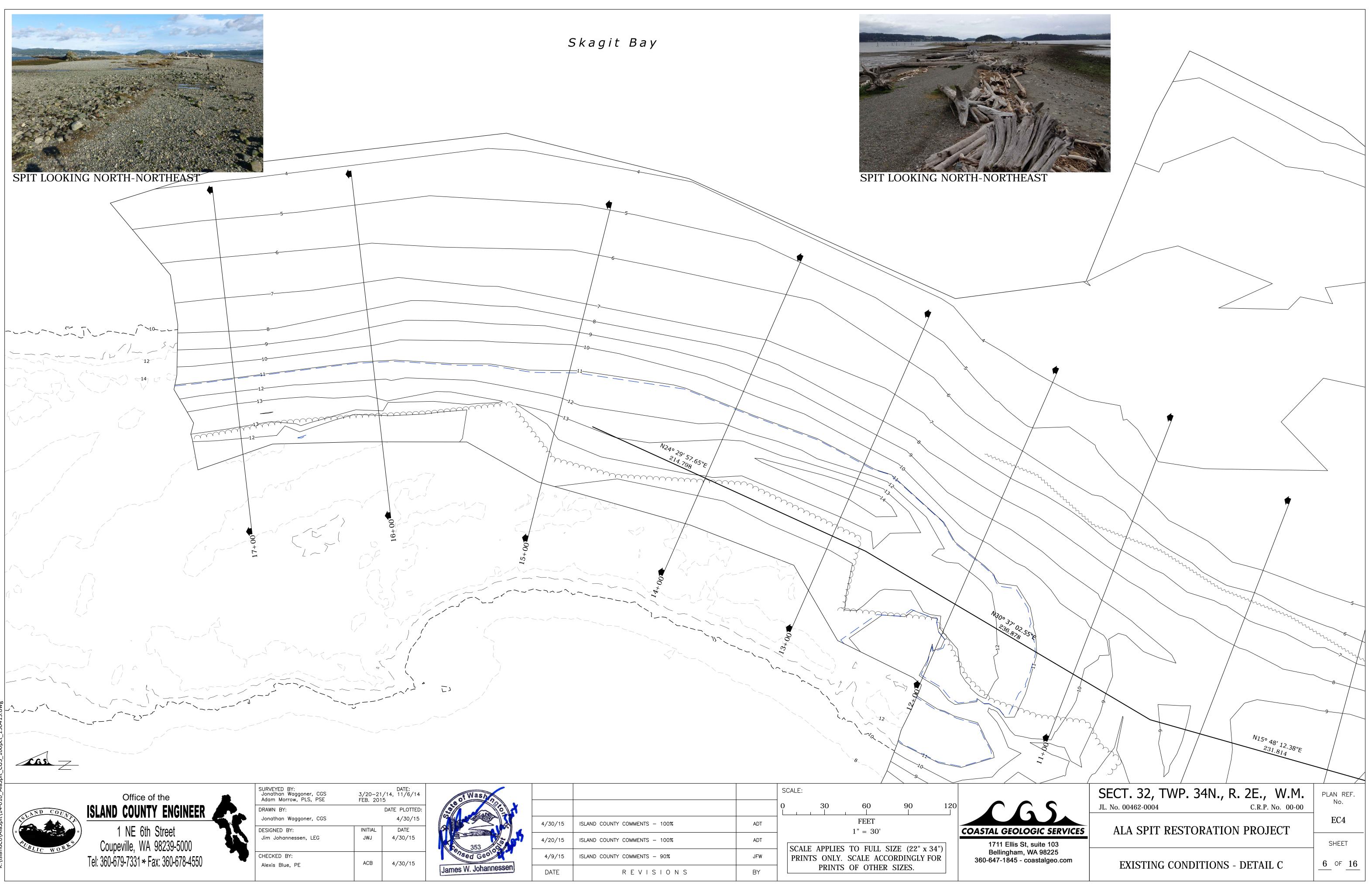




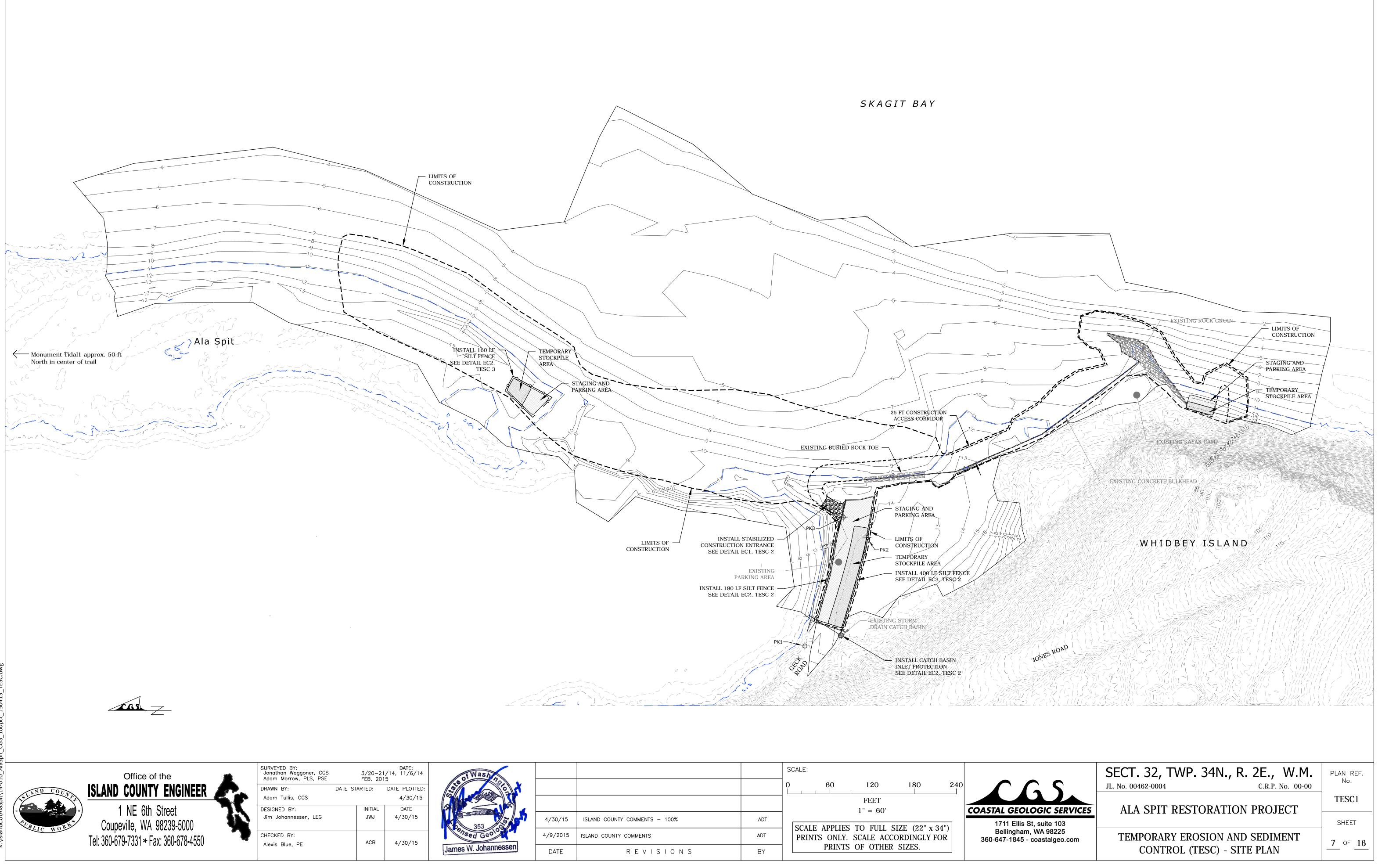
SURVEYED BY: Jonathan Waggoner, CGS Adam Morrow, PLS, PSE	3/20-21 FEB. 201	DATE: /14, 11/6/14 5
DRAWN BY:		DATE PLOTTED
Jonathan Waggoner, CGS		4/30/15
DESIGNED BY: Jim Johannessen, LEG	INITIAL JWJ	DATE 4/30/15
CHECKED BY: Alexis Blue, PE	ACB	4/30/15



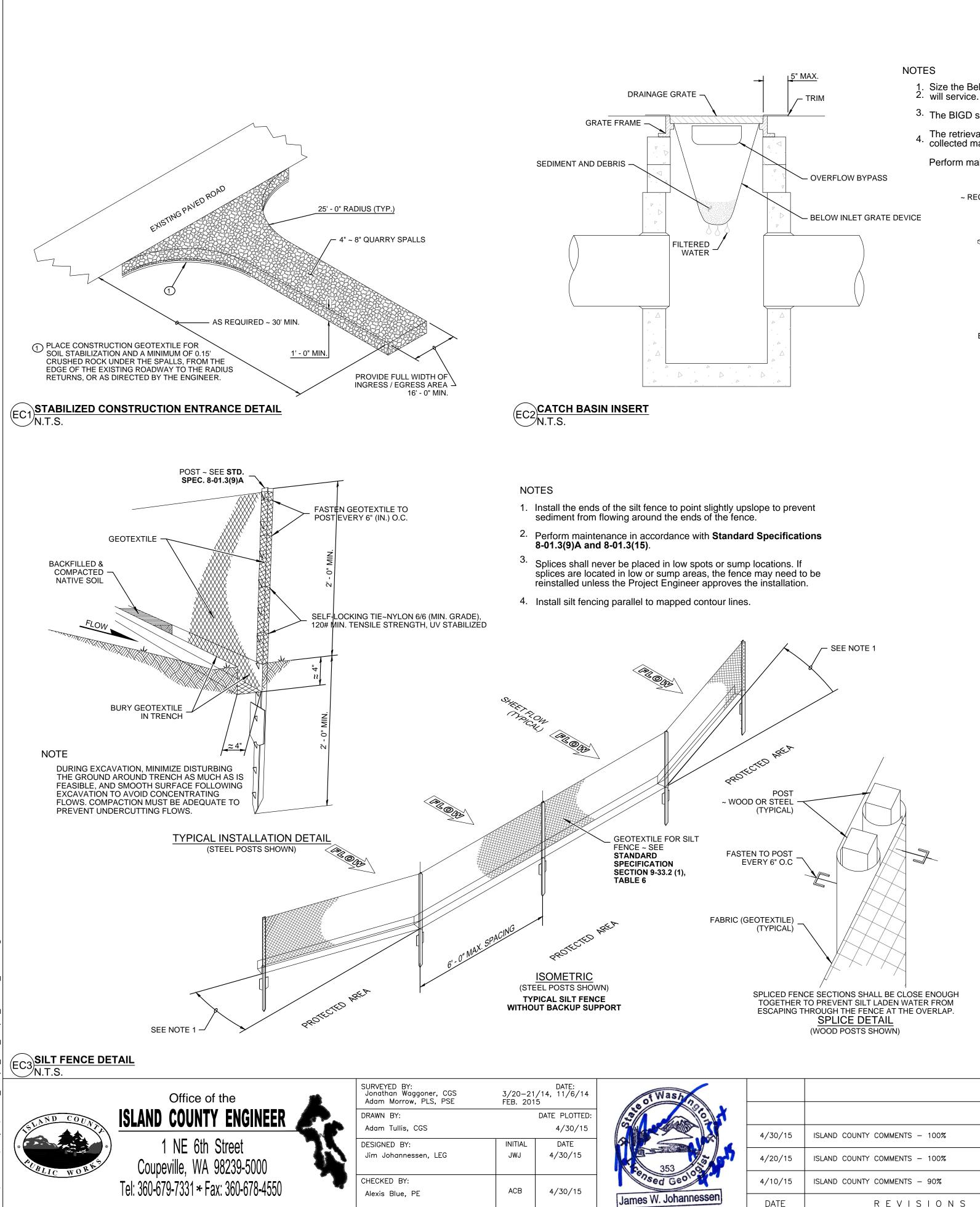
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	SECT. 32, TWP. 34N., R. 2E., W.M.	PLAN REF. No.
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	ALA SPIT RESTORATION PROJECT	EC3
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Ilis St, suite 103 Jham, WA 98225		
345 - coastalgeo.com	EXISTING CONDITIONS - DETAIL B	5 OF 16



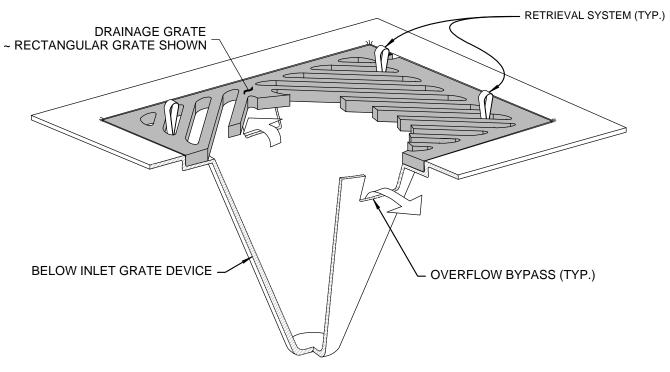
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Var Sh	4/20/15	ISLAND COUNTY COMMENTS - 100%	ADT				SIZE (22" x 3	34")	1711 Elli
	4/9/15	ISLAND COUNTY COMMENTS - 90%	JFW		INTS ONLY.	SCALE ACC	CORDINGLY F	,	Bellingh: 360-647-184
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				FEET 1" = 60'	COASTAL GE
1 5 51	4/30/15	ISLAND COUNTY COMMENTS – 100%	ADT		1711 Elli
	4/9/2015	ISLAND COUNTY COMMENTS	ADT	SCALE APPLIES TO FULL SIZE (22" x 34")PRINTS ONLY. SCALE ACCORDINGLY FOR	Bellingh 360-647-184
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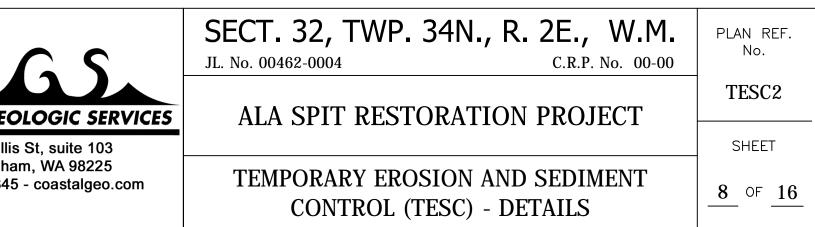
- 1. Size the Below Inlet Grate Device (BIGD) for the storm water structure it
- <sup>3.</sup> The BIGD shall have a built-in high-flow relief system (overflow bypass).
- The retrieval system must allow removal of the BIGD without spilling the collected material.
- Perform maintenance in accordance with Standard Specification 8-01.3(15).



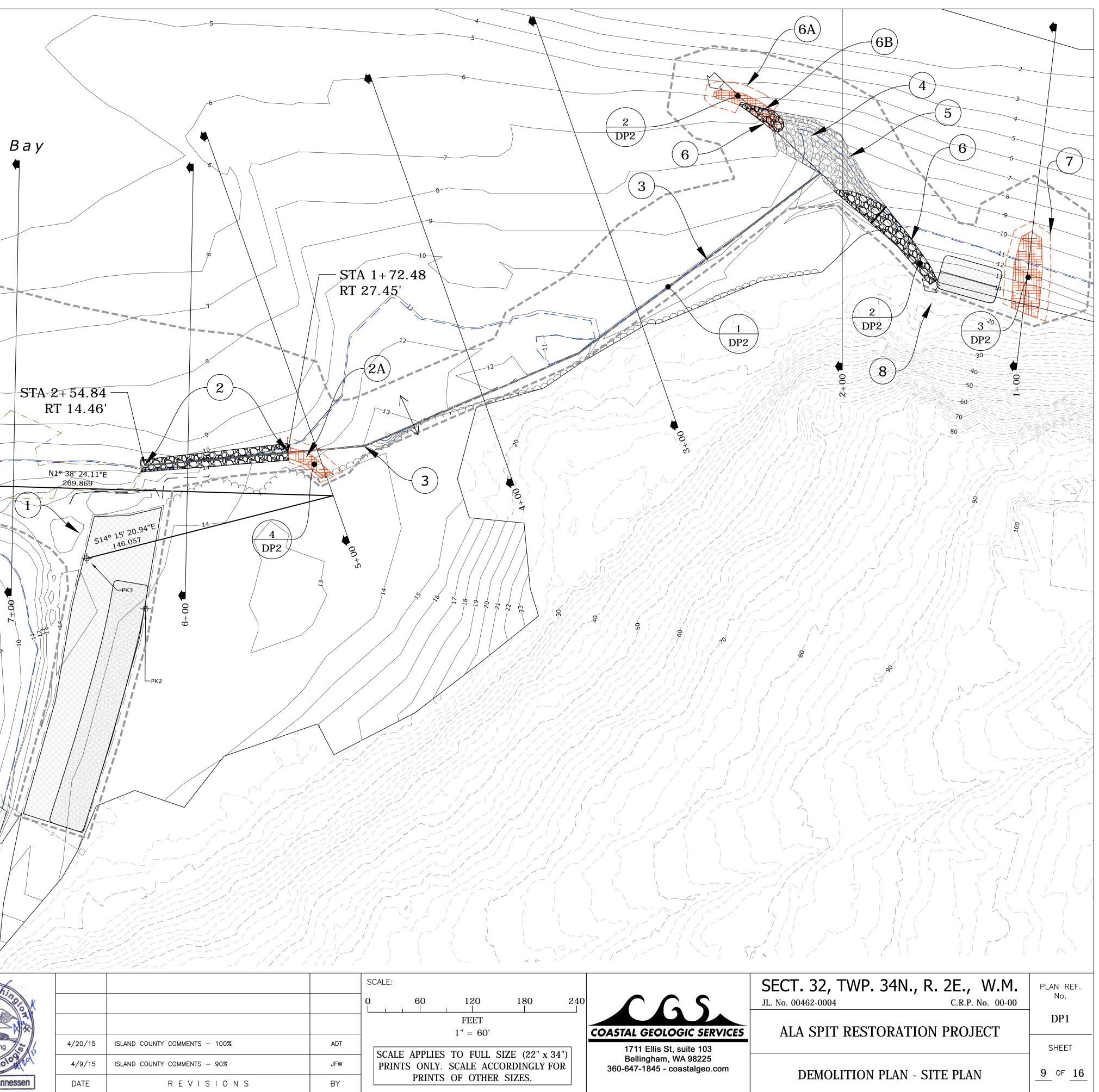
### **EROSION AND SEDIMENT CONTROL NOTES:**

- 1. THE IMPLEMENTATION OF EROSION AND SEDIMENT CONTROL (ESC) PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED.
- 2. 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. 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.
- THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR'S ESC SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE KEPT OF WEEKLY REVIEWS OF THE ESC FACILITIES.
- 4. ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR SEVEN DAYS SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.).
- 5. ANY AREA NEEDING ESC MEASURES THAT DO NOT REQUIRE IMMEDIATE ATTENTION SHALL BE ADDRESSED WITHIN SEVEN (7) DAYS.
- THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED DAILY 6. AND MAINTAINED WITHIN TWENTY FOUR (24) HOURS FOLLOWING A STORM EVENT.
- 7. STABILIZED CONSTRUCTION ENTRANCES AND ROADS SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES, SUCH AS WASH PADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
- WHERE STRAW MULCH FOR TEMPORARY EROSION CONTROL IS REQUIRED, IT SHALL BE APPLIED AT A MINIMUM THICKNESS OF 2 TO 3 INCHES.

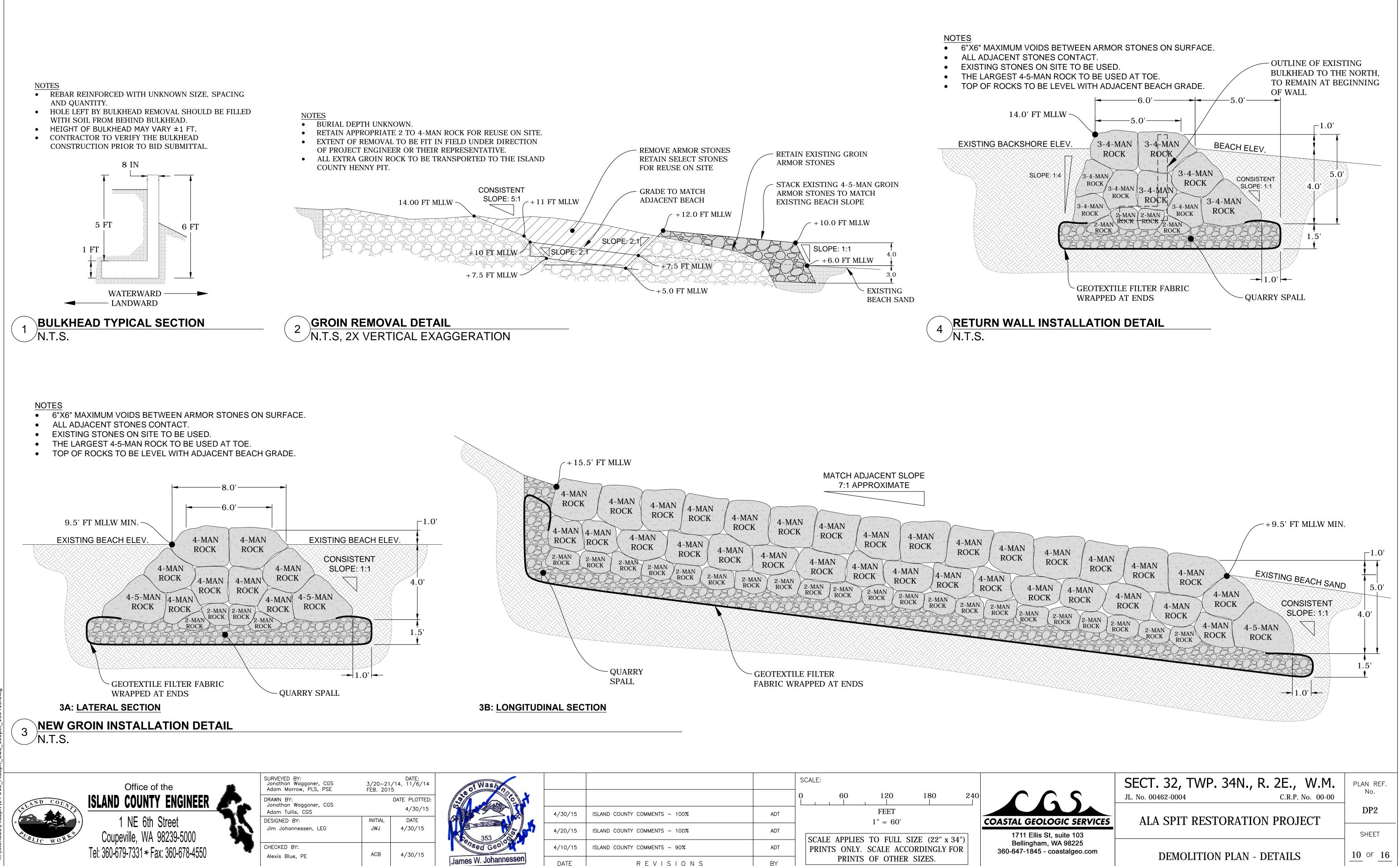
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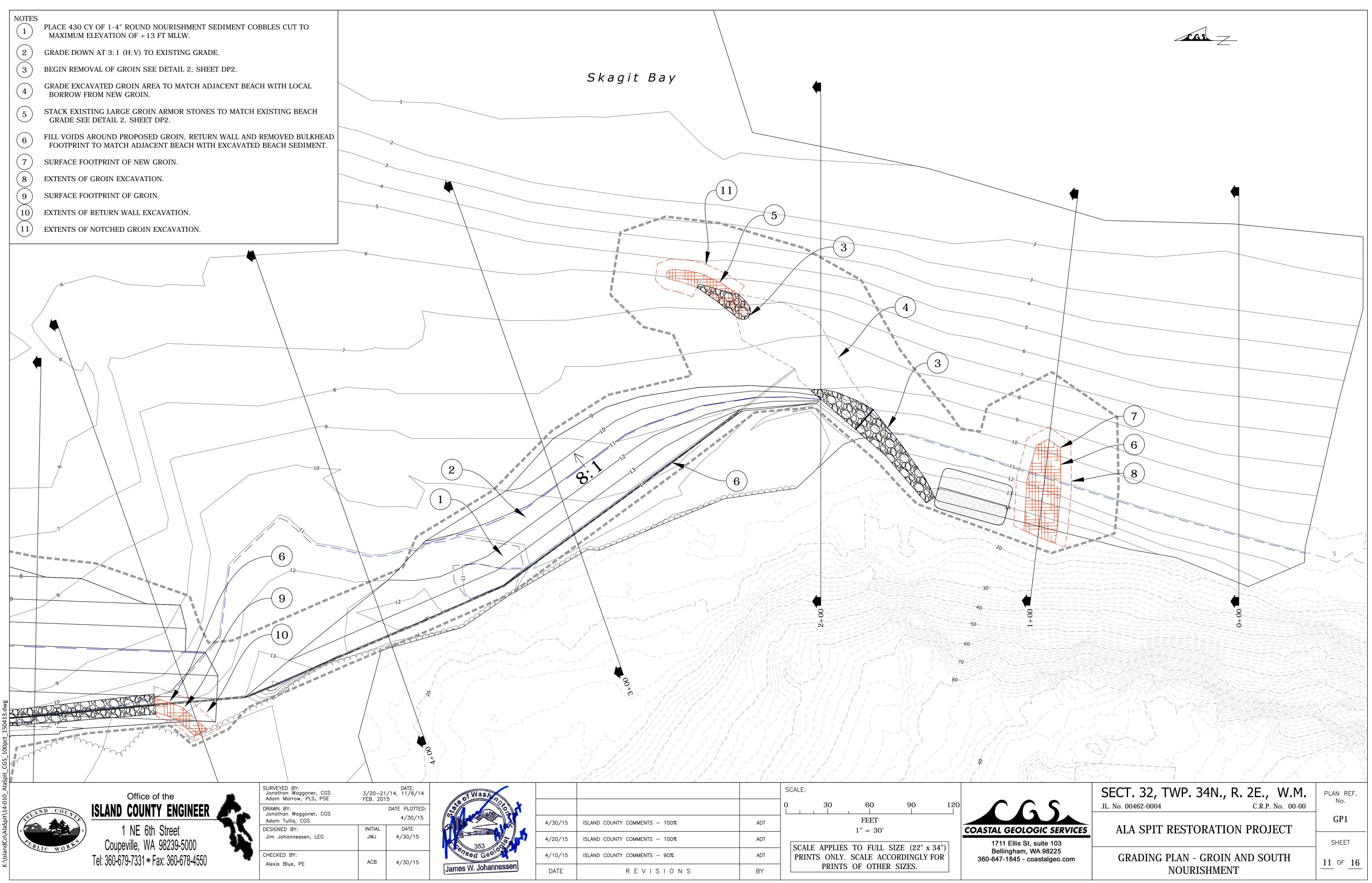
 $\searrow$ Skagit Bay N15° 48' 12.38"E 231.814 NOTES REMOVE EXISTING SIGNS, PARK BENCH, BOULDERS LINING PARKING AREA, ETC. AND RESERVE FOR REINSTALLATION WHICH SHALL BE CONDUCTED BY COUNTY PERSONNEL FOLLOWING CONSTRUCTION. (2) MAINTAIN BULKHEAD AND BURIED ROCK TOE FROM BOTH SIDES OF SOUTHERN END OF BULKHEAD. (2A) EXCAVATE TO 5.5 FT BELOW EXISTING BEACH GRADE, INSTALL SUBLAYER OF GEOTEXTILE FILTER FABRIC WITH 1.5 FT THICK LAYER OF QUARRY SPALL ABOVE AND INSTALL RETAINED ARMOR STONE RETURN WALL - SEE DETAIL SHEET DP4 BULKHEAD MAY BE SAW CUT OR BROKEN BY EXCAVATOR FOR REMOVAL. QUANTITY OF REINFORCEMENT UNKNOWN - SEE SHEET DP2 FOR TYPICAL SECTION OF BULKHEAD. CONTRACTOR TO VERIFY THE BULKHEAD CONSTRUCTION PRIOR TO BID SUBMITTAL. LOCATE AND SALVAGE MEMORIAL STONE IN GROIN - SEE SHEET EC2 - AND RESERVE FOR REINSTALLATION FOLLOWING CONSTRUCTION UNDER DIRECTION OF COUNTY 4 PERSONNEL. (5) REMOVE MAJORITY OF ROCK GROIN ROCK BELOW BETWEEN + 7.5 FT MLLW AND + 10 FT MLLW - EXACT REMOVAL AMOUNT TO BE FIT IN FIELD BY PROJECT ENGINEER OR THEIR REPRESENTATIVE - RETAIN ARMOR STONES FOR USE IN CONSTRUCTION OF NEW GROIN - SEE NOTE 7. (6) RETAIN GROIN ABOVE + 10 FT MLLW - EXACT LOCATION TO BE FIT IN FIELD BY PROJECT ENGINEER OR THEIR REPRESENTATIVE - SEE DETAIL SHEET DP2. (6A) RETAIN GROIN - EXACT LOCATION TO BE FIT IN FIELD BY PROJECT ENGINEER OR THEIR REPRESENTATIVE - SEE DETAIL SHEET DP2. (6B)EXCAVATE TO 3 FT BELOW EXISTING BEACH GRADE, AND INSTALL RETAINED ARMOR STONE NOTCHED GROIN TO MATCH EXISTING BEACH GRADE - SEE DETAIL SHEET DP2 )EXCAVATE TO 5.5 FT BELOW EXISTING BEACH GRADE, INSTALL SUBLAYER OF GEOTEXTILE FILTER FABRIC WITH 1.5 FT THICK LAYER OF QUARRY SPALL ABOVE AND INSTALL RETAINED ARMOR STONE GROIN TO MATCH EXISTING BEACH GRADE -SEE DETAIL SHEET DP2 (8) Avoid potential drainage pipes on bluff - field locate DATE: 3/20-21/14, 11/6/14 FEB. 2015 SURVEYED BY: Jonathan Waggoner, CGS Adam Morrow, PLS, PSE Office of the Wash **ISLAND COUNTY ENGINEER** DATE PLOTTED: DRAWN BY: 4/20/15 Jonathan Waggoner, CGS 1 NE 6th Street DATE DESIGNED BY: INITIAL 4/20/15 JMJ Jim Johannessen, LEG Coupeville, WA 98239-5000 CHECKED BY: Tel: 360-679-7331 \* Fax: 360-678-4550 ACB 4/20/15 Alexis Blue, PE James W. Johanne



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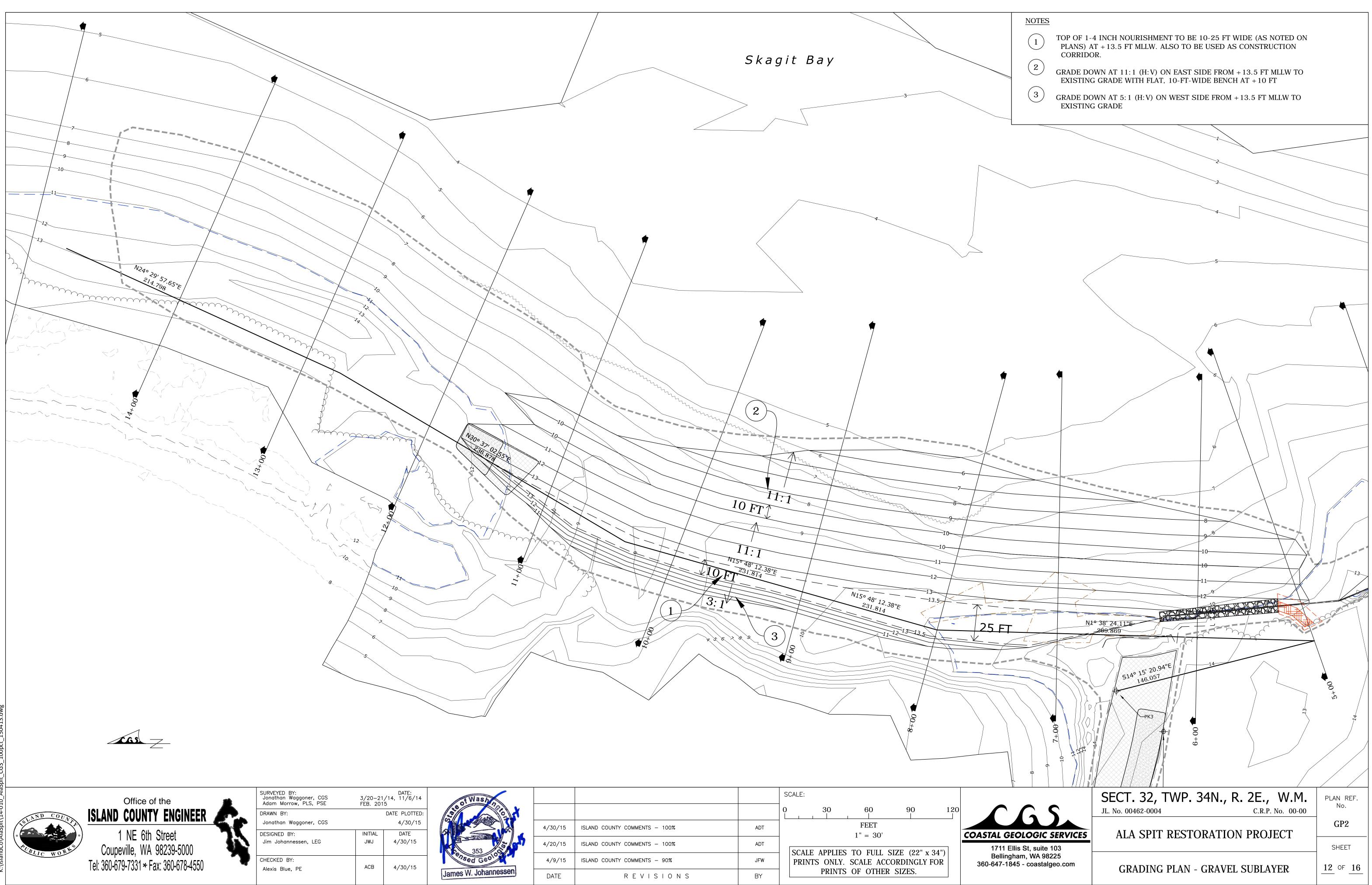


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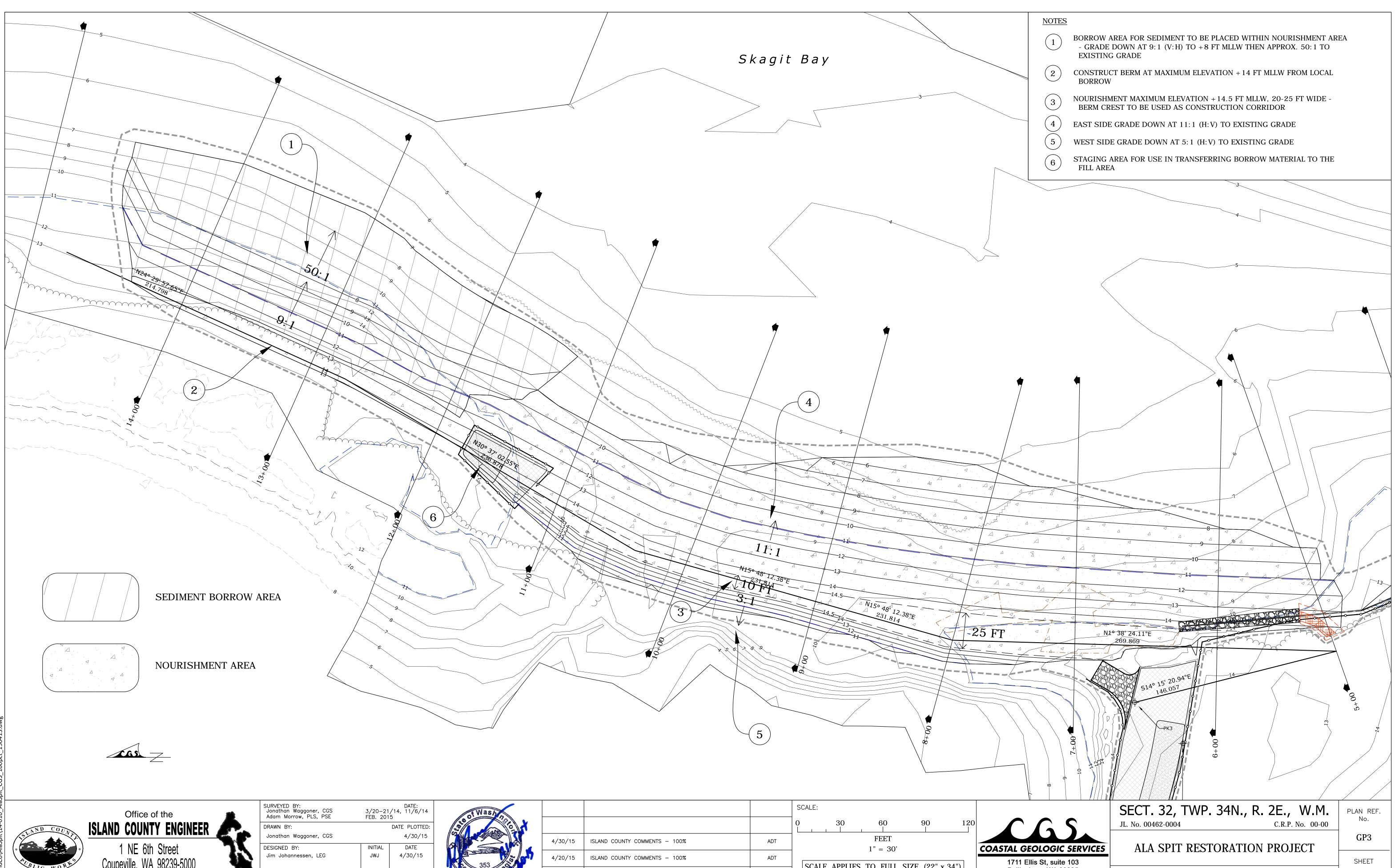


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SURVEYED BY: Jonathan Waggoner, CGS Adam Morrow, PLS, PSE	3/20-21 FEB. 201	DATE: /14, 11/6/14 5	
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Jonathan Waggoner, CGS		4/30/15	
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Jim Johannessen, LEG	JMJ	4/30/15	
CHECKED BY:			
Alexis Blue, PE	ACB	4/30/15	J

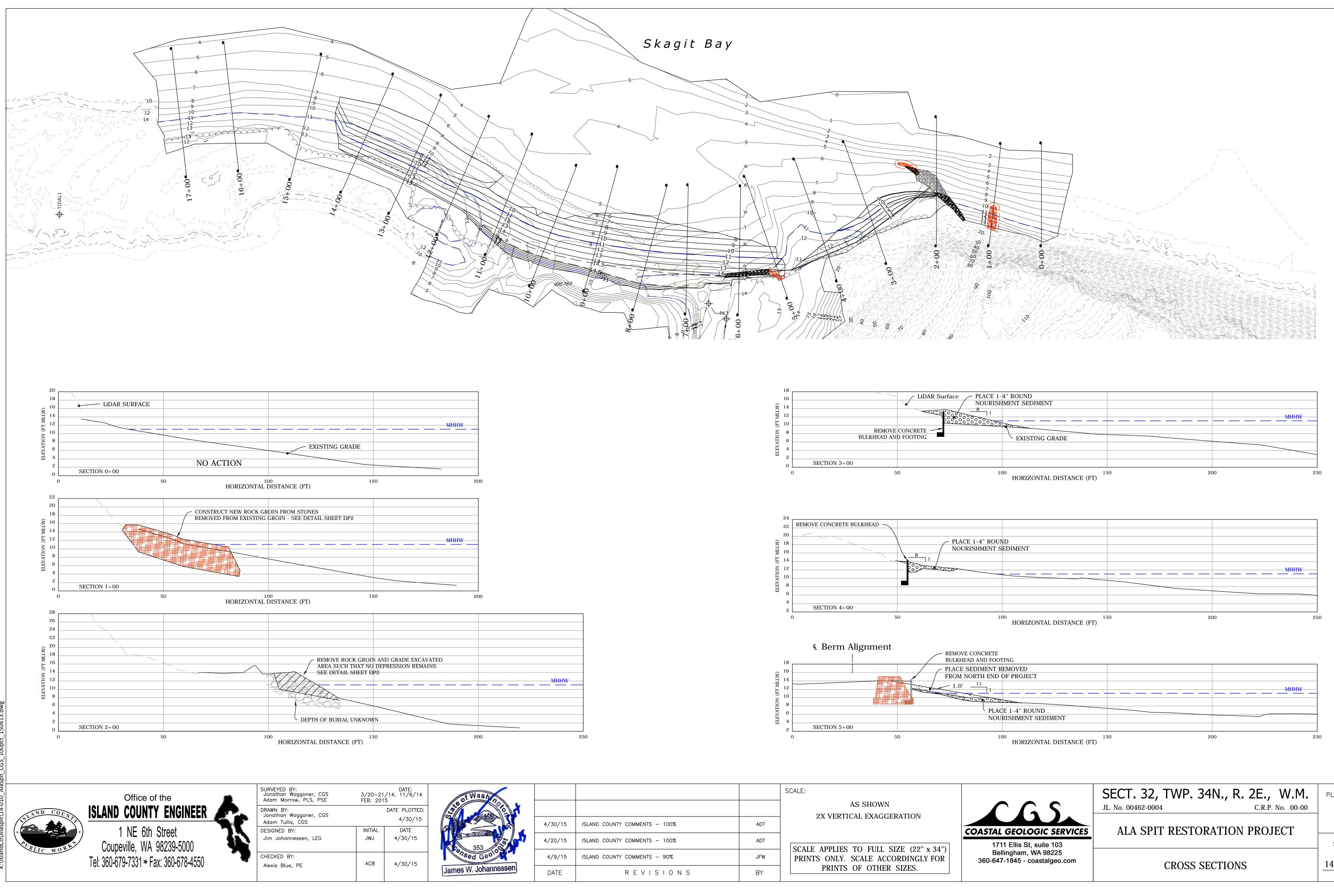


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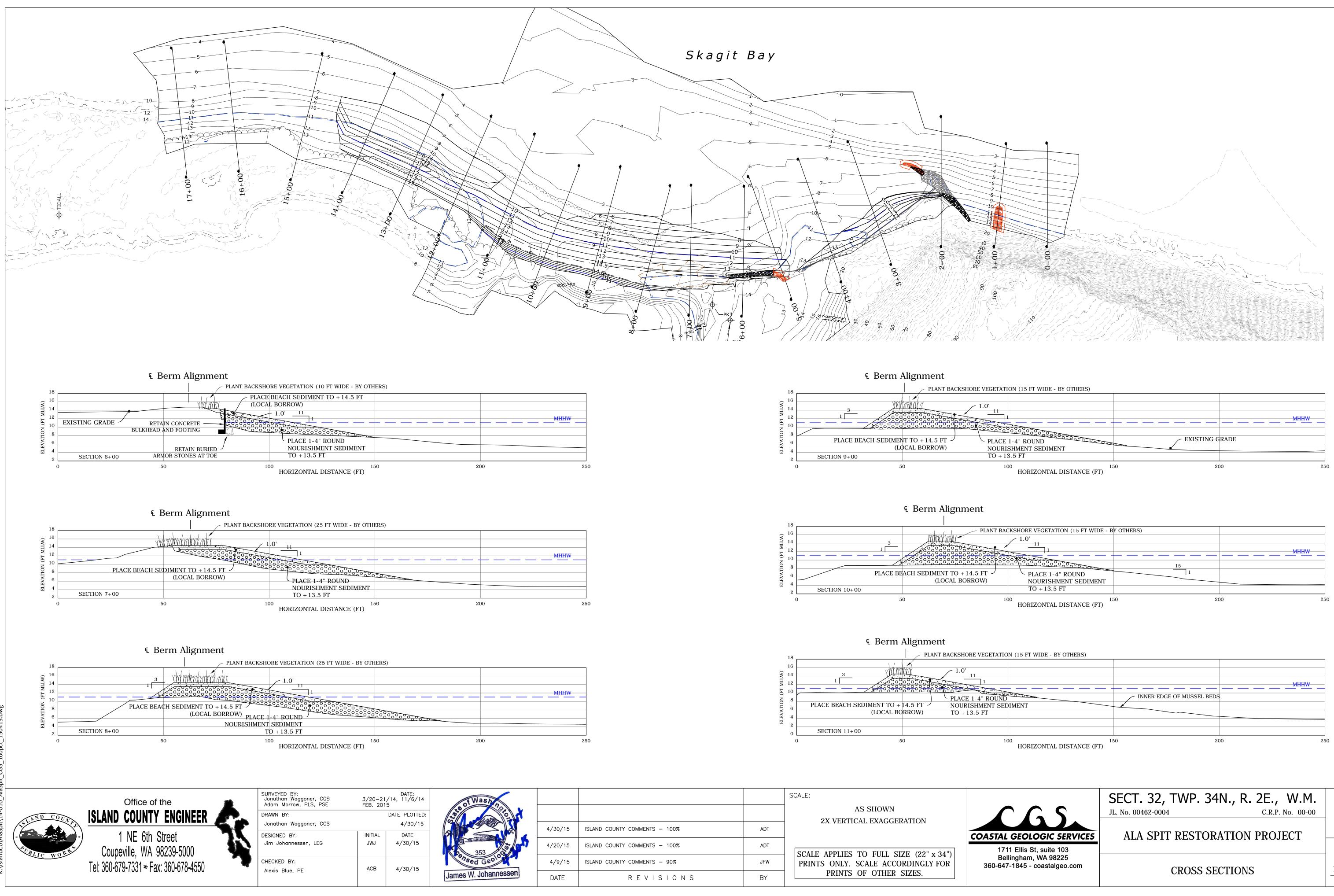
1 Ellis St, suite 103 ingham, WA 98225 -1845 - coastalgeo.com

**GRADING PLAN - SPIT REALIGNMENT** AND NOURISHMENT SURFACE

13 OF 16



				SCALE: AS SHOWN		SECT. 32, TWP. 34N., R. 2E., W.M. JL. No. 00462-0004 C.R.P. No. 00-00	PLAN REF. No.
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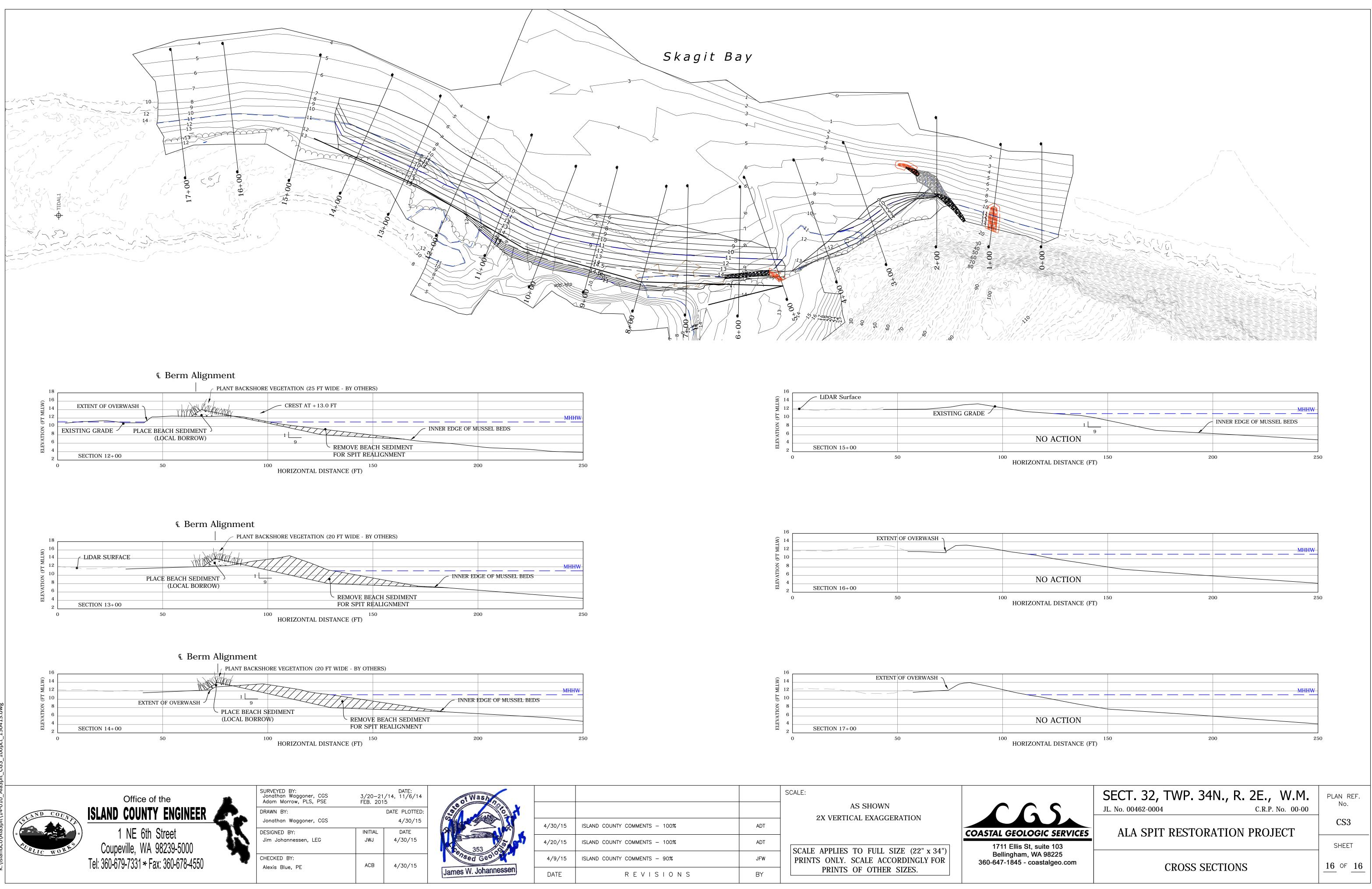


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NOURISHMENT SEDIMENT		
TO +13.5 FT		
150	200	250



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			SCALE:	
			AS SHOWN 2X VERTICAL EXAGGERATION	
4/30,	15 ISLAND COUNTY COMMENTS - 100%	ADT		COASTA
4/20,	15 ISLAND COUNTY COMMENTS - 100%	ADT	SCALE APPLIES TO FULL SIZE (22" x 34")	1
4/9,	15 ISLAND COUNTY COMMENTS - 90%	JFW	PRINTS ONLY. SCALE ACCORDINGLY FOR	B 360-6
DAT	E REVISIONS	BY	PRINTS OF OTHER SIZES.	