

ABBREVIATIONS

APPROX.	APPROXIMATE	NIC	NOT IN CONTRACT
CL	CENTERLINE	NTS	NOT TO SCALE
(D), DEMO	DEMOLISH	(P)	PROPOSED
DS	DOWNSTREAM	PIP	PROTECT IN PLACE
EL, ELEV.	ELEVATION	PWA	PHILIP WILLIAMS & ASSOCIATES
(E), EXIST.	EXISTING	SPECS	SPECIFICATIONS
EG	EXISTING GRADE	STA	STATION
FG	FINISHED GRADE	SWPPP	STORMWATER POLLUTION PREVENTION PLAN
FT	FOOT, FEET	3:1	SLOPE, HORIZONTAL:VERTICAL
GB	GRADE BREAK	TESC	TEMPORARY EROSION & SEDIMENT CONTROL
HV	HARBOR VIEW	TBD	TO BE DETERMINED
LF	LINEAR FEET	TYP.	TYPICAL
MIN.	MINIMUM	VIF	VERIFY IN FIELD
MAX.	MAXIMUM	WWTP	WASTEWATER TREATMENT PLANT
(N)	NEW	WV	WESTVIEW
		USACE	US ARMY CORPS OF ENGINEERS

LEGEND

SD	(E) STORM DRAIN	x x	FENCE	9.36	SPOT ELEVATION
SS	(E) SANITARY SEWERS LINE	4	NEW CONTOUR	203	CONTROL POINT
W	(E) WATER LINE	4	EXISTING CONTOUR	1	1 INDICATES DETAIL NUMBER
	EXISTING GRADE SECTION AND PROFILE		PROJECT BOUNDARY	2	2 INDICATES SHEET NUMBER ON WHICH SECTION OR DETAIL APPEARS
	CENTERLINE		PROPOSED LEVEE FOOTPRINT (NIC)		EXISTING GROUND (PLAN & SECTION)
	DESIGN GRADE SECTION AND PROFILE				EXCAVATION (PLAN & SECTION)
	TOE OF SLOPE				FILL (PLAN & SECTION)
	GRADING LIMIT				WETLAND SEEDING & PLUG AREA
	EXISTING FIRST ORDER CHANNEL				BANK SLOPE
	TRIBUTARY CHANNEL				CONSTRUCTION ACCESS
	CONTROL LINE				

CONSTRUCTION NOTES

- CONCURRENT PROJECTS WILL BE ONGOING TO CONSTRUCT THE SETBACK LEVEE UNDER SEPARATE CONTRACT. BOTH CONTRACTORS WILL HAVE THE SAME SITE ACCESS POINTS. COORDINATION SHALL OCCUR THROUGH THE PROJECT REPRESENTATIVE.
- ACCESS IS LIMITED. CONTRACTOR TO USE CAUTION MOBILIZING AND DEMOBILIZING. OVERHEAD ELECTRIC LINES NOT SHOWN.
- FORMER ALLEN CREEK CHANNEL MAY REQUIRE LOCAL DEWATERING OR SEDIMENT CONTAINMENT. TURBID WATER SHALL BE PUMPED TO VEGETATED AREA AT LEAST 150 FEET AWAY FROM ALLEN CREEK.
- THE STORMWATER POND EXCAVATION SHOWN HEREIN IS A REVISION TO THE POND SHOWN IN THE USACE PLANS FROM 2012. THIS WORK ONLY REVISES THE SHAPE AND OVERALL VOLUME OF THE POND. NO CHANGES ARE PROPOSED TO THE OUTLET STRUCTURE AS SHOWN BY THE USACE.
- THE VOLUME OF THE REVISED POND (11 AC-FT) IS BASED ON THE CORPS OF ENGINEERS 'BETTERMENT ANALYSIS' DATED 12 SEPT 2012.
- EXCAVATION SPOILS SHALL BE STOCKPILED ADJACENT TO EXCAVATION AREA AS DIRECTED BY THE PROJECT REPRESENTATIVE FOR USE BY OTHER CONTRACTORS.

GENERAL NOTES

- ELEVATIONS ARE APPROXIMATE, AND MAY NOT BE SHOWN ACCURATELY IN AREAS PONDED WHEN PHOTOGRAPH WAS TAKEN.
- ALL ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) IN FEET, HORIZONTAL DATUM AT SITE IS NORTH AMERICAN DATUM OF 1983 (NAD83) STATE PLANE WASHINGTON NORTH IN FEET USING GRID COORDINATES.
- ASSUME THAT ALL AREAS BELOW 10 FEET NAVD 88 WITHIN THE SITE ARE JURISDICTIONAL WETLAND, SEE SHEET 3.
- THERE IS LIMITED TIDAL INFLUENCE TO DITCHES DUE TO LEAKY TIDE GATES.
- SITE CONDITIONS MAY REQUIRE SPECIAL EQUIPMENT SUCH AS LOW GROUND PRESSURE EQUIPMENT.
- TOPOGRAPHY WITHIN THE GRADING AREA IS FROM DOWNING & ASSOCIATES USING FIELD METHODS, COLLECTED IN 2011 ADN 2012. SURROUNDING AREA TOPOGRAPHY WAS PREPARED BY HARTMAN & ASSOCIATES, USING AERIAL PHOTGRAMMETRY FROM JUNE 19, 2005.

NO.	DESCRIPTION	BY	DATE



PREPARED FOR:

TULALIP TRUSTEES

ABBREVIATIONS, LEGEND, AND NOTES

PROJECT TITLE

QWUWOOLT ESTUARY
TIDAL WETLAND RESTORATION -
STORMWATER POND REVISION

PROJECT

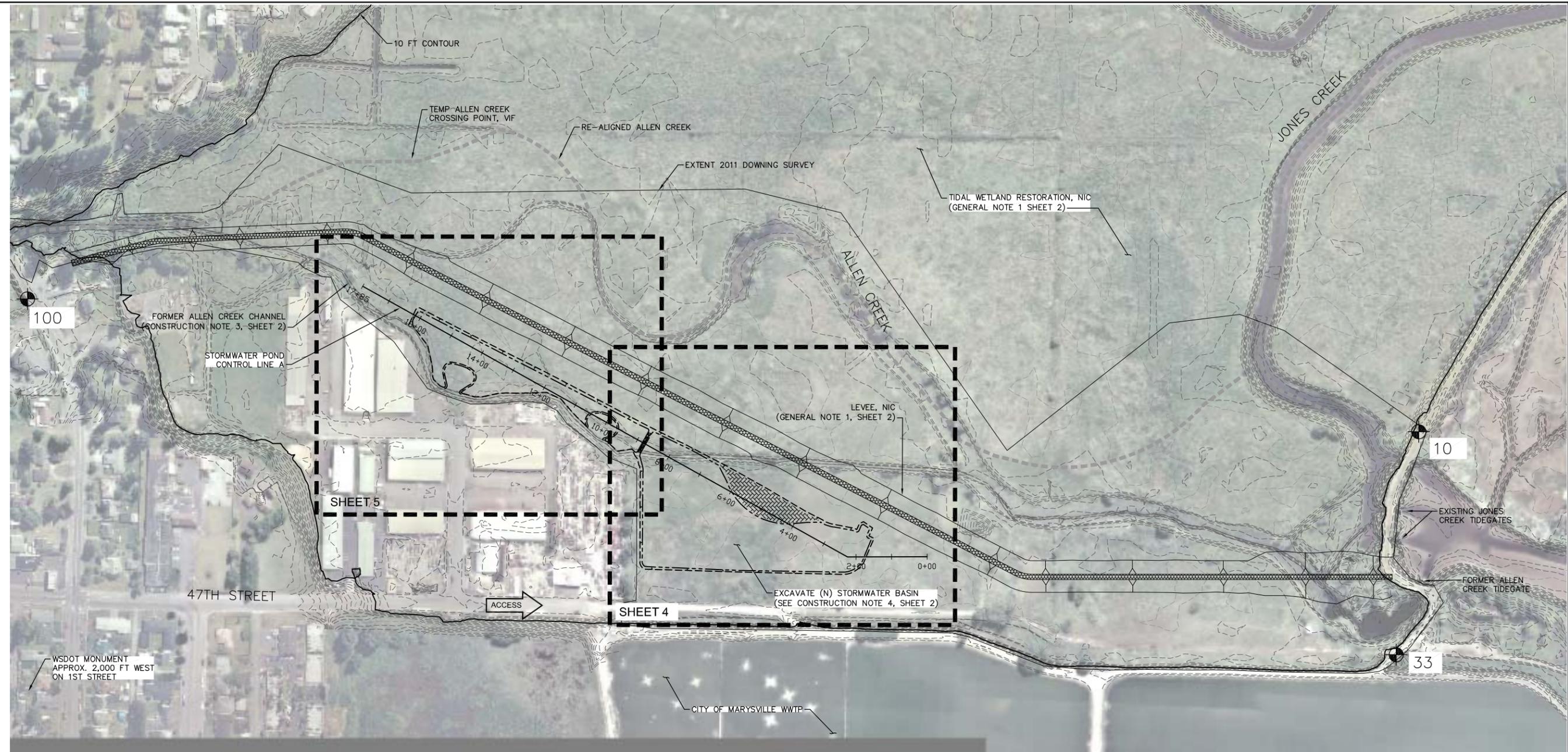
APPROVED
DESIGNED S. WINTER
DRAWN S. WINTER
INCHARGE B. BATTALIO License 42109

CALL TWO WORKING DAYS
BEFORE YOU DIG
1-800-424-5555

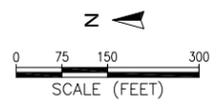
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SCALE	AS SHOWN
ESA JOB #	D209584,01
PROJECT #	D209584,01
DATE	JULY 3, 2013
SHEET	2 OF 8

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SURVEY CONTROL				
ID	NORTHING (FT)	EASTING (FT)	ELEVATION (FT NAVD 88)	TYPE
WSDOT GP31529-169	385512.7300	1311593.7020	16.65	BRASS DISK LEVEL WITH CONCRETE
10	32380.1005	1314559.7561	12.59	SPIKE SET ON NORTH SIDE OF LEVEE
33	382443.6265	1313933.5571	11.84	RED CAP REBAR
100	386293.0956	1314932.6933	16.12	MAG NAIL ON NORTH SIDE OF SUNNYSIDE DRIVE



REVISIONS			
NO.	DESCRIPTION	BY	DATE
1			
2			
3			
4			
5			

PREPARED BY: **ESA**
Environmental Science Associates, Inc.
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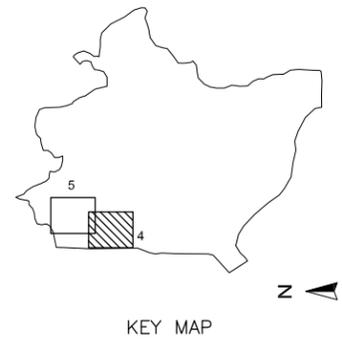
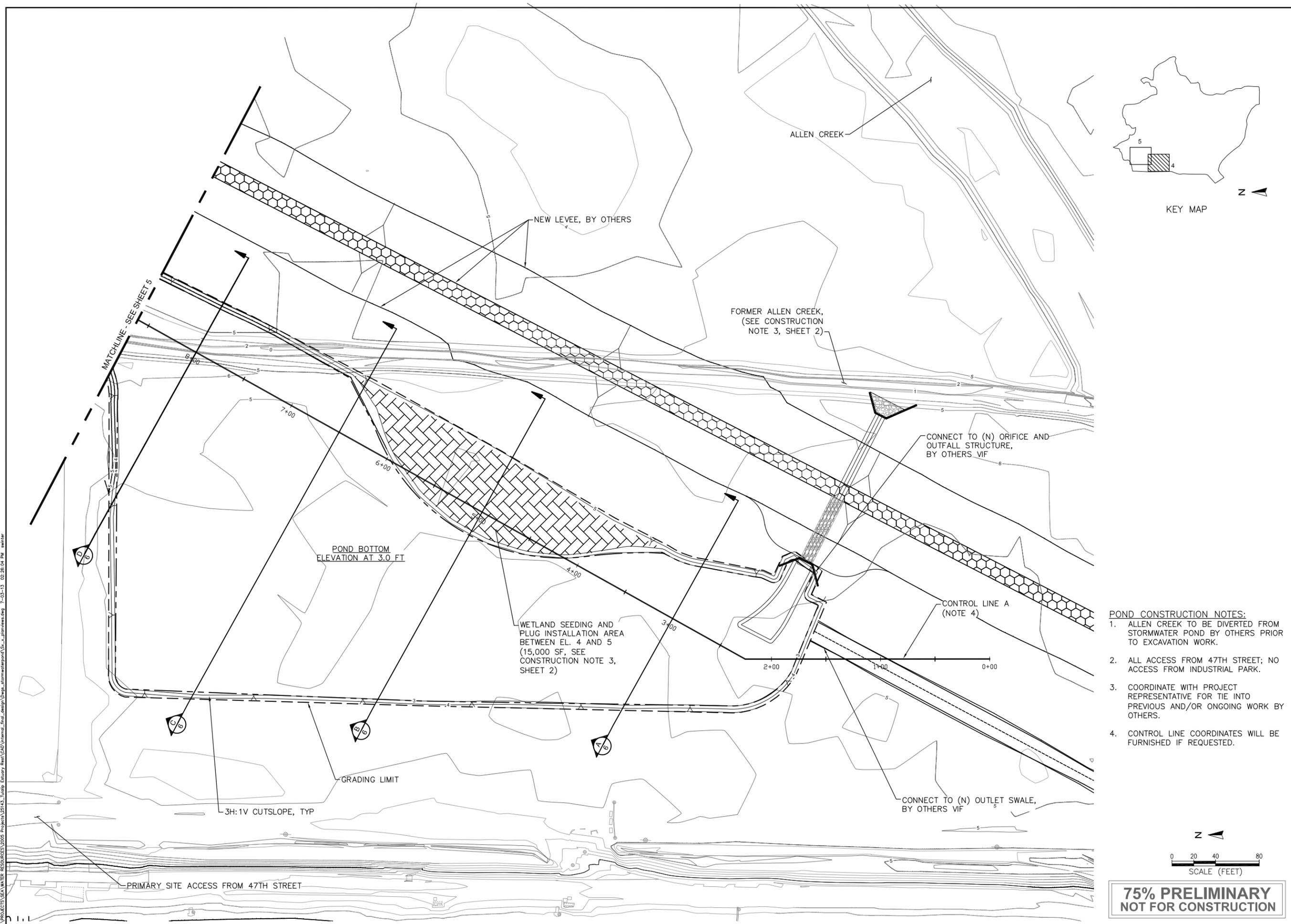
SHEET TITLE: **SITE PLAN AND SURVEY CONTROL**
 PROJECT: **QWULOOLT ESTUARY TIDAL WETLAND RESTORATION - STORMWATER POND REVISION**

APPROVED	
DESIGNED	S. WINTER
DRAWN	S. WINTER
INCHARGE	B. BATTALIO License 42109

SCALE	AS SHOWN
ESA JOB #	D209584.01
PROJECT #	D209584.01
DATE	JULY 3, 2013
SHEET	3 OF 8

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- POND CONSTRUCTION NOTES:**
1. ALLEN CREEK TO BE DIVERTED FROM STORMWATER POND BY OTHERS PRIOR TO EXCAVATION WORK.
 2. ALL ACCESS FROM 47TH STREET; NO ACCESS FROM INDUSTRIAL PARK.
 3. COORDINATE WITH PROJECT REPRESENTATIVE FOR TIE INTO PREVIOUS AND/OR ONGOING WORK BY OTHERS.
 4. CONTROL LINE COORDINATES WILL BE FURNISHED IF REQUESTED.

SCALE AS SHOWN
 0 20 40 80
 SCALE (FEET)

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REVISIONS		NO.	DESCRIPTION	BY	DATE

PREPARED BY: **ESA**
 5300 Shadyview Ave. #107
 P.O. Box 788488
 Dallas, TX 75278-4884

PREPARED FOR: **TULALIP TRUSTEES**

SHEET TITLE: **GRADING PLAN - SOUTH**

PROJECT: **QWULOOLT ESTUARY TIDAL WETLAND RESTORATION - STORMWATER POND REVISION**

APPROVED: _____

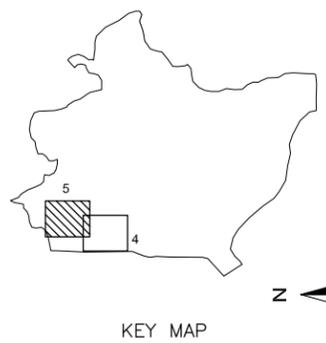
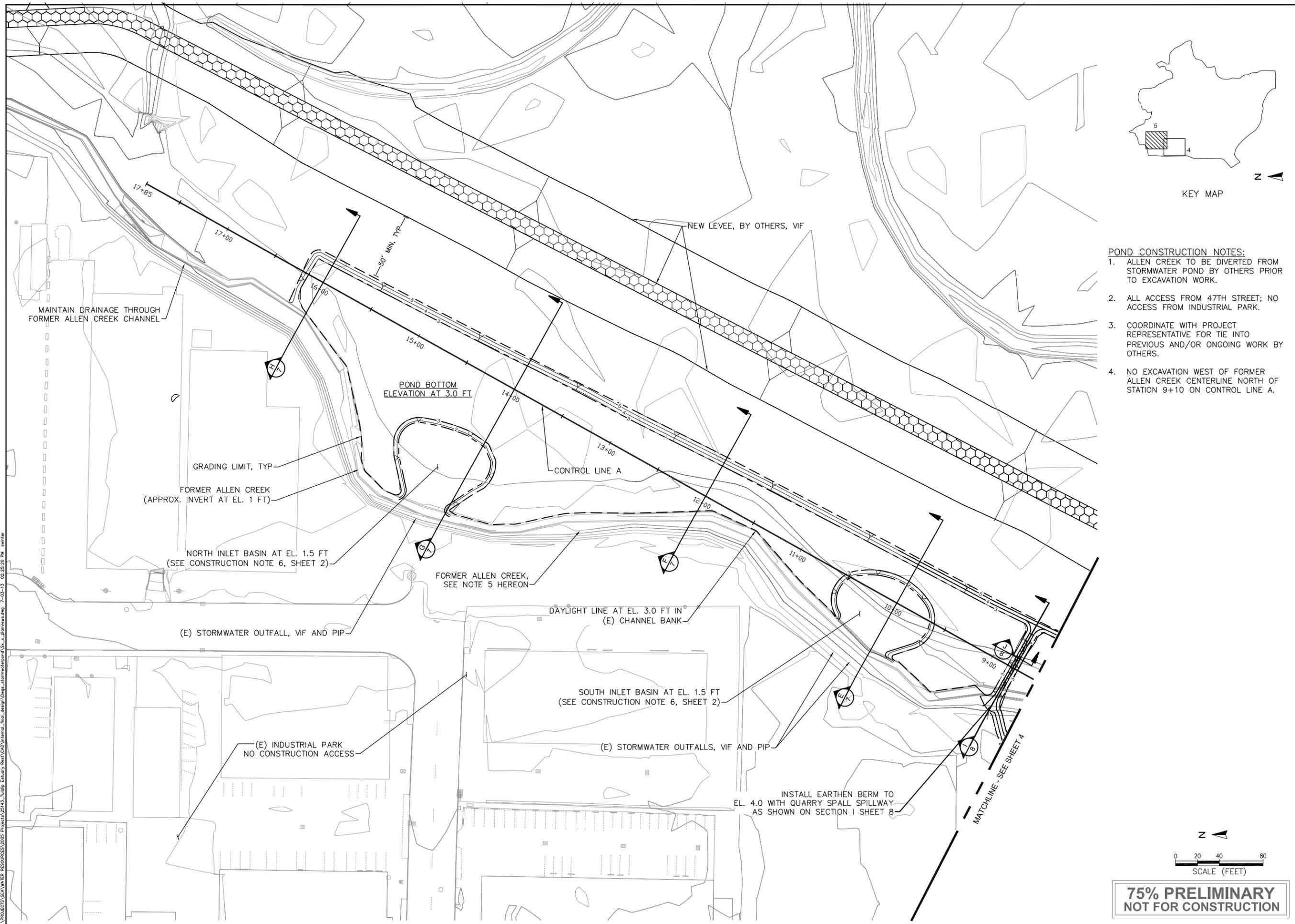
DESIGNED: S. WINTER

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SCALE: AS SHOWN
 ESA JOB #: D209584.01
 PROJECT #: D209584.01
 DATE: JULY 3, 2013
 SHEET: **4** OF **8**

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 2. ALL ACCESS FROM 47TH STREET; NO ACCESS FROM INDUSTRIAL PARK.
 3. COORDINATE WITH PROJECT REPRESENTATIVE FOR TIE INTO PREVIOUS AND/OR ONGOING WORK BY OTHERS.
 4. NO EXCAVATION WEST OF FORMER ALLEN CREEK CENTERLINE NORTH OF STATION 9+10 ON CONTROL LINE A.

REVISIONS		NO.	DESCRIPTION	BY	DATE

PREPARED BY: **ESA**
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PREPARED FOR: **TULALIP TRUSTEES**

SHEET TITLE: **GRADING PLAN - NORTH**

PROJECT: **QWULOOLT ESTUARY TIDAL WETLAND RESTORATION - STORMWATER POND REVISION**

APPROVED: _____

DESIGNED: S. WINTER

DRAWN: S. WINTER

INCHARGE: B. BATTALIO
License 42109

SCALE: AS SHOWN

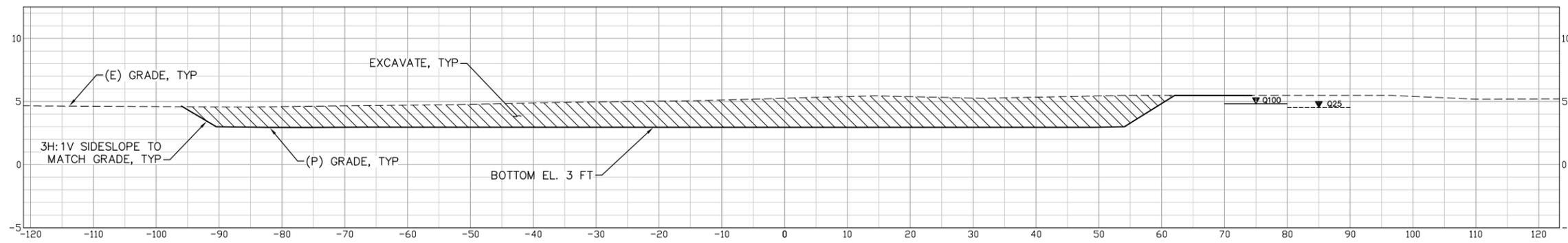
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PROJECT #: D209584.01

DATE: JULY 3, 2013

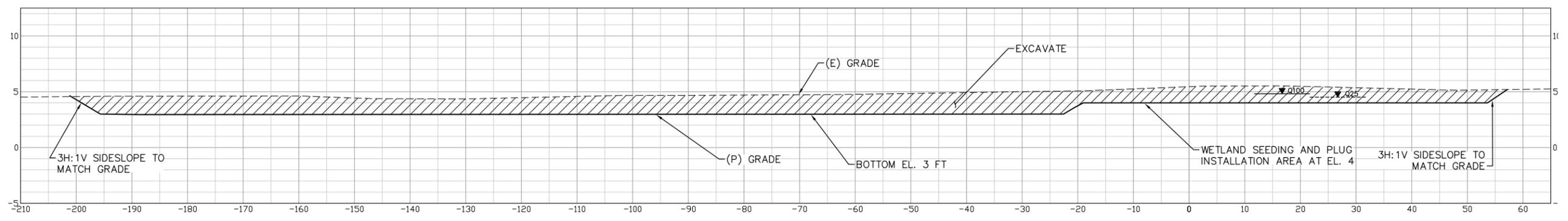
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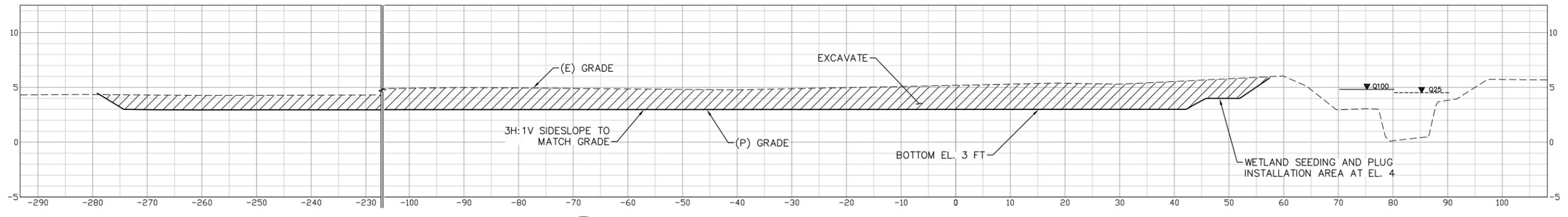


A STORMWATER POND SECTION
C2 STN 3+00
 SCALE:
 H: 1"=10'
 V: 1"=5'

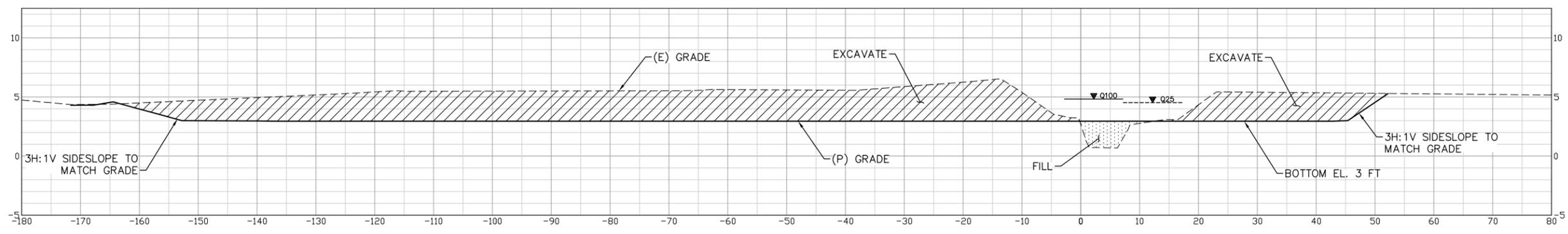
- NOTES:**
1. THE '0' STATION ON THE SECTIONS DENOTES INTERSECTION WITH CONTROL LINE A.
 2. ALL SECTIONS FACE NORTH.
 3. NO EXCAVATION SHALL OCCUR THE WEST OF THE CENTERLINE OF ALLEN CREEK NORTH OF STATION 9+10.
 4. Q25 (4.02 FT) AND Q100 (4.82 FT) YEAR WATER LEVELS SHOWN HERE BASED ON CORPS OF ENGINEERS TECHNICAL MEMORANDUM DATED 12-SEPT 2012.
 5. NOTE THAT SNOHOMISH RIVER WATER LEVELS MAY EXCEED SHOWN WATER LEVELS IF WWTP LEVEE IS OVERTOPPED.



B STORMWATER POND SECTION
C2 STN 5+00
 SCALE:
 H: 1"=10'
 V: 1"=5'



C STORMWATER POND SECTION
C2 STN 6+00
 SCALE:
 H: 1"=10'
 V: 1"=5'



D STORMWATER POND SECTION
C2 STN 8+00
 SCALE:
 H: 1"=10'
 V: 1"=5'

NO.	DESCRIPTION	BY	DATE

PREPARED BY:
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PREPARED FOR:
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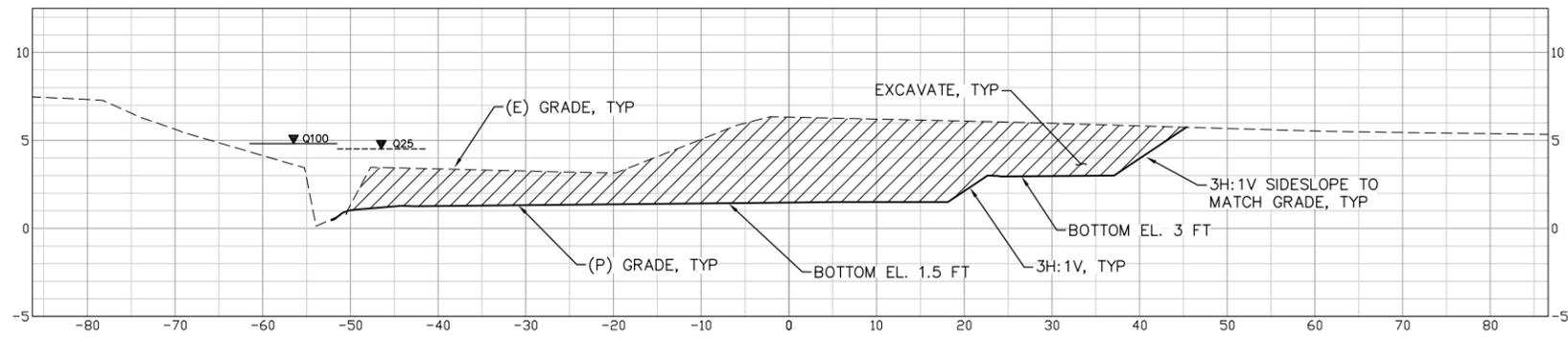
SHEET TITLE
GRADING SECTIONS - SOUTH
QWULOOT ESTUARY
TIDAL WETLAND RESTORATION -
STORMWATER POND REVISION
 PROJECT

APPROVED	
DESIGNED	S. WINTER
DRAWN	S. WINTER
INCHARGE	B. BATTALIO License 42109

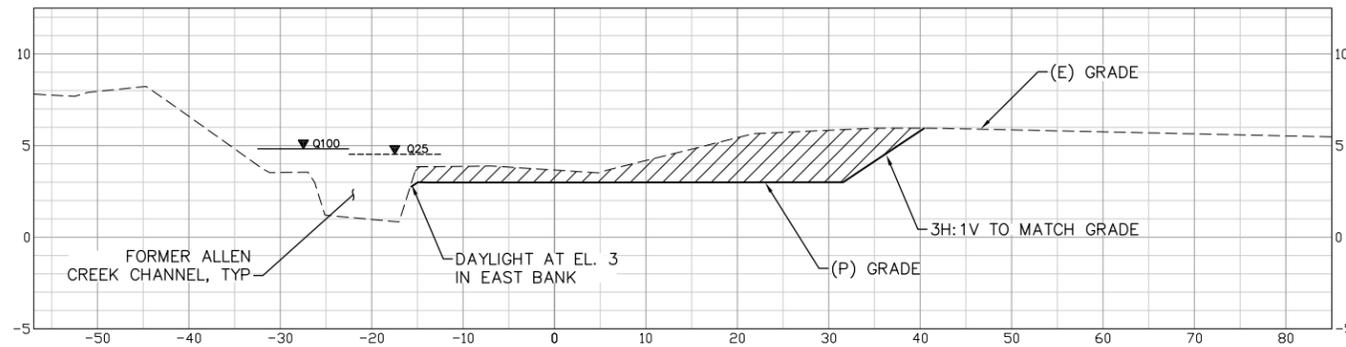
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ESA JOB #	D209584.01
PROJECT #	D209584.01
DATE	JULY 3, 2013
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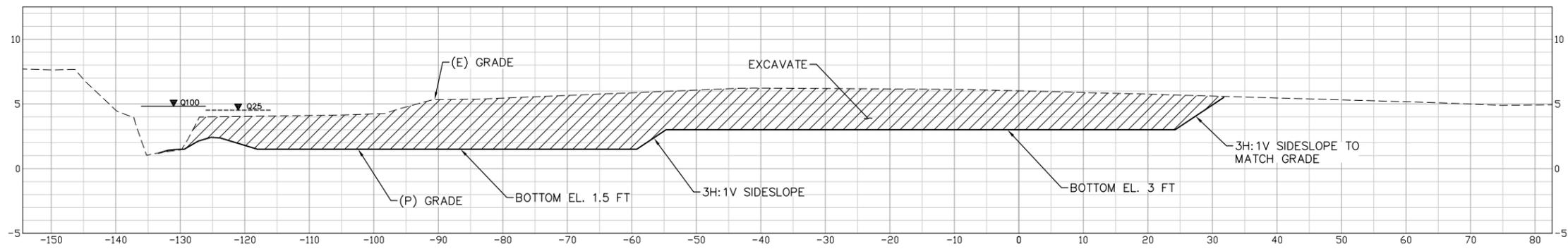
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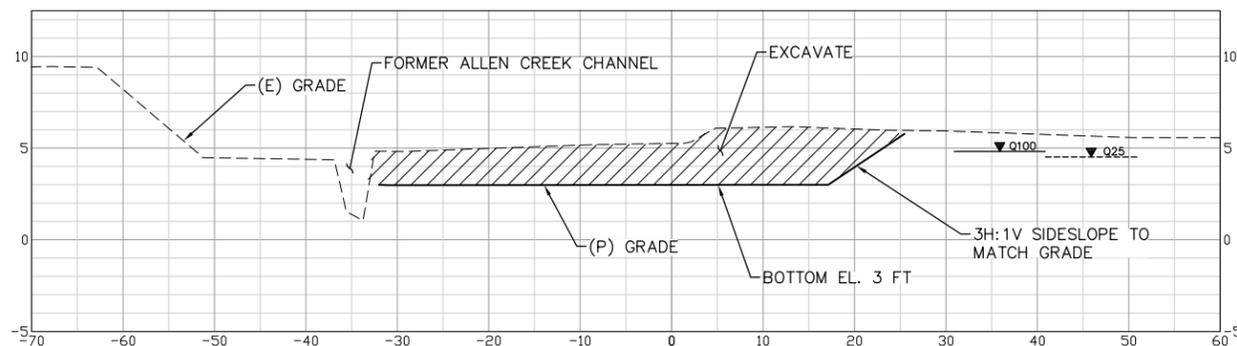
E STORMWATER POND SECTION
C2 STA 10+00
SCALE:
H: 1"=10'
V: 1"=5'



F STORMWATER POND SECTION
C2 STA 12+00
SCALE:
H: 1"=10'
V: 1"=5'



G STORMWATER POND SECTION
C2 STA 14+00
SCALE:
H: 1"=10'
V: 1"=5'



H STORMWATER POND SECTION
C2 STA 16+00
SCALE:
H: 1"=10'
V: 1"=5'

- NOTES:**
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REVISIONS		DATE
NO.	DESCRIPTION	BY

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PREPARED FOR: **TULALIP TRUSTEES**

SHEET TITLE: **GRADING SECTIONS - NORTH**

PROJECT: **QWULOOT ESTUARY TIDAL WETLAND RESTORATION - STORMWATER POND REVISION**

APPROVED: _____

DESIGNED: S. WINTER

DRAWN: S. WINTER

INCHARGE: B. BATTALIO
License 42109

SCALE: AS SHOWN

ESA JOB #: D209584.01

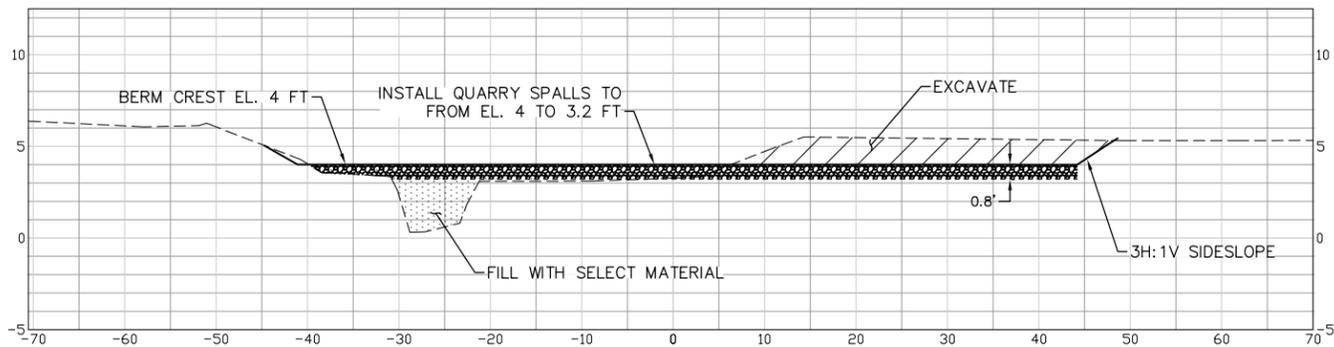
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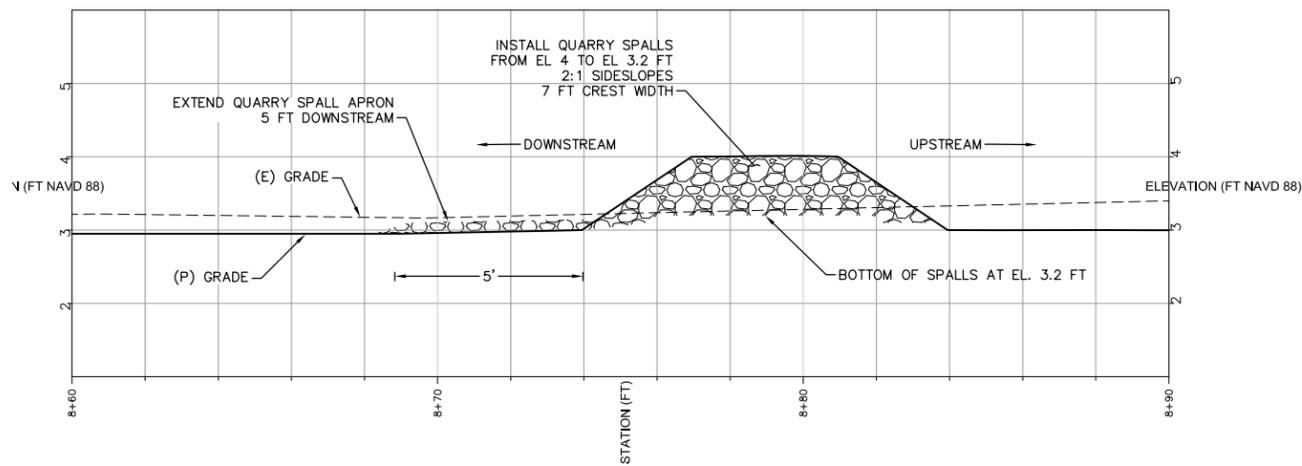
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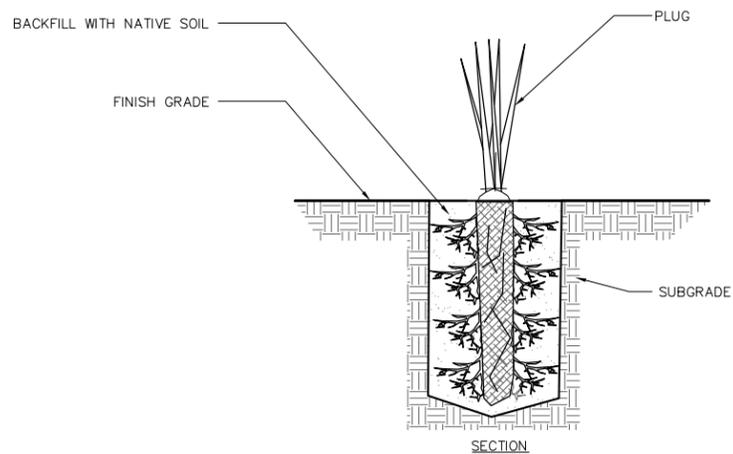
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I
C2 STORMWATER BERM SECTION
STA 8+00
SCALE:
H: 1"=10'
V: 1"=5'

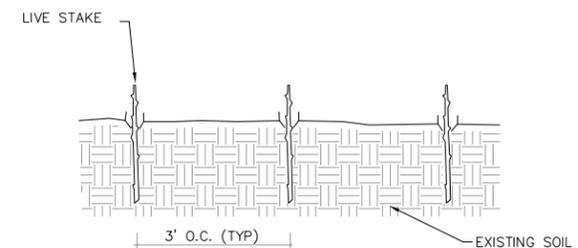
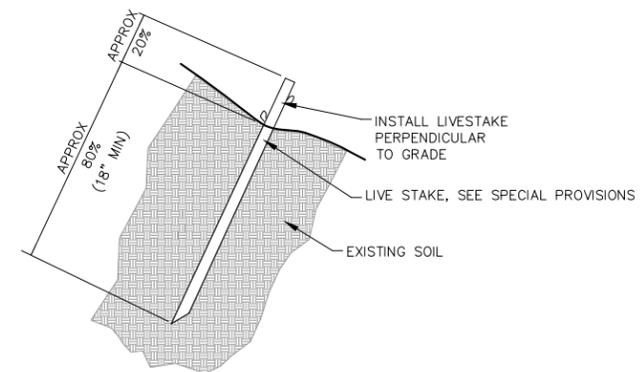


J
C2 STORMWATER BERM PROFILE
STA 8+80
SCALE:
H: 1"=2.5'
V: 1"=1.25'



K PLUG PLANTING DETAIL

NOT TO SCALE



NOTES:
1. SEE SPECIAL PROVISIONS FOR INSTALLATION

L LIVESTAKE PLANTING DETAILS

NOT TO SCALE

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REVISIONS		NO.	DESCRIPTION	BY	DATE
△	5				
△	4				
△	3				
△	2				
△	1				

PREPARED BY:
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PREPARED FOR:
TULALIP TRUSTEES

SHEET TITLE
DETAILS
PROJECT
**QWULOOT ESTUARY
TIDAL WETLAND RESTORATION -
STORMWATER POND REVISION**

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SHEET	

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