

Lowman Beach Park Shoreline Restoration

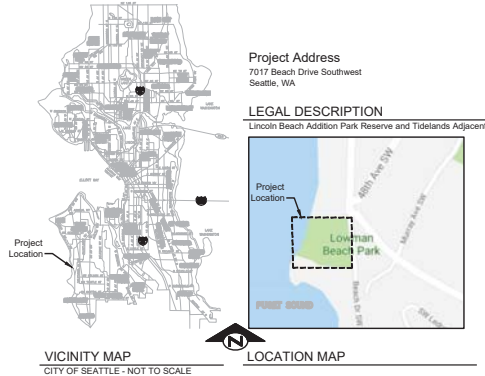
Parks Specification # 0000 PW # 0000-000 Project # PRK732303-08

Funding Source: Seattle Parks District/Other Funding Source

Owner:
City of Seattle Department of Finance & Administrative Services,
City Purchasing & Contracting Services

Administering Department:
City of Seattle Department of Parks and Recreation, Planning & Development Division
800 Maynard Avenue South, Third Floor, Seattle, WA 98134
Project Manager: David Graves 206-684-7048

Project Design Team:
Environmental Science Associates (Prime), Reid Middleton (Structural).
Primary Contact: Pablo Quiroga 415-262-2305



STANDARD ABBREVIATIONS

Aban	Abandon(ed)	Gal	Gallon	Qty	Quantity
Adj	Adjacent	GPM	Gallons Per Minute	R	Roller
ADA	Americans with Disabilities Act	Gaby	Galvanized	RR	Railroad
AD	Aerial Inspection	GSP	Galvanized Steel Pipe	R/R	Right of Way
AP	Alarm	Gas	Gas Meter	Reconn	Reconnect
Appx	Approximate	G Reg	Gas Regulator	Rec	Reduce
Asph	Asphalt	G Valve	Gas Valve	Ref	Refer/Reference
ATB	Asphalt Bitum Way	Gr	Gravel	Reinf	Reinforcing/Reinforcement
AVB	Automatic Valve	Grd	Ground	RCP	Reinforced Concrete Pipe
AVC	Automatic Control Valve	GP	Gay Pole	Rem	Remove
AVB	Automatic Vacuum Breaker	H	Horizontal	Repl	Remove and Replace
Ave	Avenue	HPG	High Pressure Gas	Replac	Replace
AW	Asphalt	HPS	Heavy Pressure Sodium	Repld	Replace
BCC	Bearing of Curb	Horiz	Horizontal	Rel	Relief
BF	Bottom Face	H	Howe Box	Rel(C)	Relief
BO	Bottom Off	HC	Howe Connection	R/N	Right of Way
BS	Butterfly Valve	Hes	Howe	RCE	Rigid Galvanized Steel
BShd	Butterfly Valve	Hyd	Hydrant	RS	Rigid Steel
BT	Butterfly Valve	In	Inch/Inches	R/Ry	Roadway
Ca	Calcium	Int	Inside Diameter	RD	Roof Drain
Cal	Caliper	ID	Inside Diameter	SB	Sand Box
CAF	Cast Iron Pipe	Inv	Invert Elevation	SCS	Seattle City Light
CB	Catch Basin	Inv	Invert (Line)	SED	Seattle Engineering Dept.
CC	Center Line	IP	Iron Pipe	SEW	Seattle Water Department
C-C	Center to Center	IRG	Irrigation	SD	Subgrade
CLF	Chain Link Fence	IRC	Irrigation Controller	SD	Service Drain
Ch	Chamber	IRG	Irrigation	SHT	Sheet
Cis	Clean	Irg	Irrigation Head	SS	Side Sewer - Combined
CO	Clean Out	JT	Joint	SSS	Side Sewer - Sanitary
CO	Clean	JB	Junction Box	S	Sewer
Conc	Concrete	KV	Kilovolt	Spec	Specification(s)
CSW	Concrete Bitum Way	LT	Large Inlet Top	SP	Sprinkler Head
CC	Concrete Culvert	LI	Light Inlet	Sq	Square
CCW	Concrete Walk	LF	Line Foot	Std	Standard
Cond	Condensation	LP	Light Pole	Std	Standard
Co	Coast	LF	Line Foot	SP	Steel Pipe
Conn	Connect	Loc	Location	SL	Street
CAF	Corrugated Metal Pipe	Loc	Location	SDS	Street Designation Sign
Cont	Continuous	MAN	Manhole	SLH	Street Light Handhole
CP	Cast Polyethylene	MCV	Manual Control Valve	SNS	Street Name Sign
Co F	Cubic Feet	MDV	Manual Drain Valve	Struc	Structural/Structure
Co Yd	Cubic Yard	Max	Maximum	SVL	Survey Line
Cu	Copper	MJ	Mechanical Joint	T	Tap
Cu	Copper	M/L	Mechanical Vapor Light	Te	Telephone
Cu	Copper	M/L	Mechanical Vapor Light	TCL	Telephone Cable
CR	Curb Radius	M	Monument Line	TCL	Telephone Conduit
D	Diameter	MC	Not in Contract	TC	Top of Curb
D	Diameter	MTS	Not To Scale	TH	Telephone Handhole
DB	Direct Burial Cable	Nx	Number	TVB	Television Box
DDV	District Curb Valve	OC	On Center	TVH	Television Handhole
DCV	Double Check Valve	OD	Outside Diameter	Temp	Temporary
Dry	Dry	OT	Outside Diameter	Temp	Temporary
DP	Ductile Iron Pipe	Pav	Pavement	TI	Top Face
E	Each	PFB	Push Button	T	Traffic
Elev	Elevation	PF	Perforated Drain Pipe	TCo	Traffic Cable
ECC	Electric	PS	Pipe Sewer Combined	TCo	Traffic Conduit
EDS	Electric Cable	PSS	Pipe Sewer Sanitary	TCH	Traffic Handhole
EDC	Electric Conduit	PSD	Pipe Storm Drain	TSP	Traffic Signal Box
EDM	Electric Duct	PSDD	Pipe Storm Drain Detention	TSP	Traffic Signal Pole
EM	Electric Manhole	RF	Right End	TR	Transmission Pole
EMH	Electric Manhole	R	Right	Typ	Typical
EL	Elevation	PCL	Point of Compound Curvature	V	Valve Chamber
EL	Elevation	PC	Point of Curvature	V/V	Vertical
EL	Elevation	PI	Point of Intersection	V	Vertical
EDC	End of Curb	PRC	Point of Reverse Curve	V/B	Vertical Curve
EL	Elevation	PT	Point of Tangency	V/C	Vertical Curve
EL	Elevation	PVC	Polyvinyl Chloride	w	Water
Exp	Expansion	LES	Lead	W	Water Meter
F	Feet	PSI	Pounds per Square Inch	WM	Wood
F.P.	Field Light Pole	PF	Power Pole	NCR	Noted Check Ramp
Fig	Figure	PPL	Power Pole with Light	w/	Wood Pole
Flg	Flag	PRV	Pressure Reducing Valve	W	Wood
Fl	Finished Floor	PWB	Pressure Vacuum Breaker	WSP	Wood Stave Pipe
FG	Finish Grade	R	Property Line		
FS	Finished Surface (paving)	Prop	Proposed		
FM	Force Main				

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APPROVED FOR ADVERTISING:

Liz Alzeer
City Purchasing & Contracting Services

Seattle, Washington 98101 20

Signature: _____

_____ Seattle, City Purchasing & Contracting Services

NO.	REVISION - AS BUILT	DATE
1		
2		
3		

REVIEWED: _____

_____ PARK ENGINEER _____ DATE

All work shall be done in accordance with the City of Seattle Standard Plans and Specifications, as either in the 066 sheet shown, and Supplemental by Special Provisions.



5309 SHILOH AVE. NW
STE. 200
SEATTLE, WA 98107
OFFICE: 206.789.9058
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60% PRELIMINARY
NOT FOR CONSTRUCTION



LOWMAN BEACH PARK

LOWMAN BEACH PARK
SHORELINE RESTORATION

TITLE SHEET

DESIGNED: RSD DATE: 04/16/2019

DRAWN: JMS

CHECKED: STE SHEET: 1 OF 25

ORDINANCE NO. X

SPECIFICATION NO. X

SCALE: AS NOTED

GENERAL NOTES

GENERAL

- WORK SHALL CONFORM TO ALL LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS AND PERMITS ISSUED FOR THE PROJECT. CONTRACTOR SHALL HAVE A COPY OF ALL PERMITS ON-SITE AT ALL TIMES AND COMPLY WITH ALL CONDITIONS STIPULATED IN THE PERMITS.
- ANY DISCREPANCY BETWEEN PERMITS AND DESIGN DRAWINGS SHALL BE IMMEDIATELY REPORTED TO OWNER FOR RESOLUTION PRIOR TO AFFECTED WORK BEING PERFORMED. CONTRACTOR SHALL REVIEW DESIGN DRAWINGS PRIOR TO MOBILIZATION AND SHALL ALLOW ENOUGH TIME FOR ANY IDENTIFIED POTENTIAL PERMIT ISSUES TO BE RESOLVED WITHOUT IMPACTING CONSTRUCTION SCHEDULE.
- THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING FACILITIES, RESIDENTIAL STRUCTURES, INFRASTRUCTURE, IMPROVEMENTS, AND VEGETATION NOT PLANNED FOR DEMOLITION OR REMOVAL, AND SHALL REPLACE IN-KIND ANY DAMAGED FACILITIES OR VEGETATION AT ITS OWN EXPENSE AND TO THE OWNER'S SATISFACTION.
- PRIOR TO ANY GROUND DISTURBANCE, CONTRACTOR SHALL LOCATE ALL UNDERGROUND AND OVERHEAD UTILITIES IN ACCORDANCE WITH SPECIFICATIONS AND STATE LAW. UPON LEARNING OF THE EXISTENCE AND/OR LOCATIONS OF UTILITIES NOT SHOWN OR SHOWN INACCURATELY ON THE PLANS OR NOT PROPERLY MARKED BY THE UTILITY OWNER, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY OWNER, AND THE CITY OF SEATTLE BY TELEPHONE AND IN WRITING.
- PROJECT SITE IS GENERALLY LOCATED NEAR THE MARINE ENVIRONMENT, AND PORTIONS OF THE SITE ARE IN THE INTERTIDAL ZONE. TIDAL ACCESSES RESTRICTIONS WILL APPLY DURING CONSTRUCTION, WHICH MAY LIMIT THE CONTRACTOR'S ACCESS TO CERTAIN AREAS DURING A TYPICAL WORKDAY. CONTRACTOR SHALL FAMILIARIZE ITSELF WITH ALL APPLICABLE PERMIT RESTRICTIONS PRIOR TO MOBILIZING.
- CONDITIONS ARE DYNAMIC, AND WORK AREAS ARE SUBJECT TO THE ACTION OF THE FLUCTUATING TIDES, WAVES, BOAT WAKES, AND CURRENTS. CONTRACTOR SHALL BE FAMILIAR WITH MARINE CONDITIONS AND IMPLEMENT CONSTRUCTION TECHNIQUES APPROPRIATE TO CONDUCT AND PROTECT WORK AS REQUIRED.
- CONTRACTOR SHALL HAVE COPIES OF THE APPROVED PLANS, SPECIFICATIONS, AND PERMITS ON SITE AND READILY AVAILABLE AT ALL TIMES.

SURVEY

- PROJECT COORDINATE SYSTEM:
HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) WASHINGTON STATE PLANE NORTH, US SURVEY FEET.
VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), US SURVEY FEET. SUBTRACT 2.34FT FROM NAVD88 ELEVATION DATA TO CONVERT TO MLLW.
- AN EXISTING CONDITIONS GRADE SURFACE WAS DEVELOPED USING THE SURVEY CONDUCTED BY PARKS IN JANUARY 2017 AND ESA SURVEY POINTS FROM JANUARY 2019.
- SPOT ELEVATIONS WITHIN THE SITE ARE BASED ON GROUND SURVEY CONDUCTED BY PARKS IN JANUARY 2017. ADDITIONAL BEACH PROFILE DATA WAS COLLECTED BY ESA IN JANUARY 2019.
- AERIAL PHOTOGRAPHY PROVIDED BY ESA, 2018: HIGH-RESOLUTION IMAGERY FROM DRONE FOR LOWMAN BEACH PARK PROJECT.
- ALL EXISTING UTILITY LOCATIONS AND DESCRIPTION SHOWN ON DRAWINGS REPRESENT CONDITIONS ENCOUNTERED AT TIME OF SURVEY (PARKS, JANUARY 2017, ESA, JANUARY 2019). SITE CONDITIONS ARE DYNAMIC AND SUBJECT TO CHANGE. CONTRACTOR SHALL CONDUCT SURVEY PRIOR TO CONSTRUCTION TO VERIFY SITE CONDITIONS. CONTRACTOR SHALL PROMPTLY NOTIFY THE PROJECT OWNER OF POTENTIAL CONFLICTS.

ACCESS, STAGING AND ENVIRONMENTAL PROTECTION

- ACCESS TO THE SITE IS ON PUBLIC ROADS. COORDINATE WITH THE CITY OF SEATTLE FOR APPROVED HAUL ROUTES AND TRAFFIC PERMITS AND APPROVALS.
- CONTRACTOR SHALL COORDINATE WITH THE CITY OF SEATTLE PRIOR TO MOBILIZING EQUIPMENT. CONTRACTOR SHALL NOT BLOCK ACCESS TO ADJACENT PROPERTIES OR TRAFFIC. CONTRACTOR SHALL SUBMIT AND RECEIVE APPROVAL OF TRAFFIC CONTROL PLAN PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR SHALL CONFINE CONSTRUCTION OPERATION TO WITHIN PERMANENT EASEMENTS, TEMPORARY CONSTRUCTION EASEMENTS, OR PUBLIC RIGHT-OF-WAY ONLY.
- ELIMINATE OR MINIMIZE NON-STORM DISCHARGE FROM THE CONSTRUCTION SITE TO PUGET SOUND AND ALL OTHER WATER BODIES INCLUDING GROUNDWATER.
- ALL MATERIALS THAT COULD CAUSE WATER POLLUTION (I.E., MOTOR OIL, FUELS, PAINTS, ETC.) SHALL BE STORED IN A CLOSED CONTAINER AND USED IN A MANNER THAT WILL NOT CAUSE POLLUTION. ALL DISCARDED MATERIAL AND ANY ACCIDENTAL SPILLS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN APPROVED DISPOSAL SITE.
- TREAT AND DISPOSE OF REMOVED WATER IN COMPLIANCE WITH ALL PERMITS. AT A MINIMUM, TREAT ALL REMOVED WATER AS NEEDED TO REMOVE SUSPENDED SEDIMENT PRIOR TO ANY DISCHARGE OFFSITE.

DEMOLITION NOTES

- THE CONTRACTOR SHALL VERIFY ALL LEVELS, DIMENSIONS, AND EXISTING CONDITIONS IN THE FIELD PRIOR TO PLACING A BID. THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY DISCREPANCIES OR FIELD CHANGES PRIOR TO PLACING THEIR BID.
- BEFORE PROCEEDING WITH ANY DEMOLITION WORK, THE CONTRACTOR SHALL SUBMIT A DETAILED WORK PLAN TO THE OWNER'S REPRESENTATIVE, FOR REVIEW AND APPROVAL, AS REQUIRED IN THE SPECIFICATIONS, INCLUDING THE SEQUENCING, TIMING, EQUIPMENT, MEANS AND METHODS, AND LOGISTICS OF OPERATIONS.
- ONSITE CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING THE PRE-CONSTRUCTION STATE OF THE SITE.
- THE EXISTING SEAWALL AND SURROUNDINGS ARE IN A DETERIORATED CONDITION. CONTRACTOR SHALL DETERMINE ANY SAFE LOADING CONDITION RESTRICTIONS APPLICABLE TO DEMOLITION ACTIVITIES BEFORE ALLOWING ANY EQUIPMENT TO BE NEAR THE SEAWALL.
- CONTRACTOR IS REQUIRED TO PROTECT EXISTING NEARBY STRUCTURES FROM DAMAGE DURING DEMOLITION. ALL STRUCTURES TO REMAIN SHALL BE RESTORED TO PRE-PROJECT CONDITIONS UPON COMPLETION OF THE WORK TO THE SATISFACTION OF THE OWNER.
- THE DEPTH OF THE EXISTING ADJACENT RETAINING WALL TO REMAIN IS UNKNOWN. TEMPORARY SHORING MAY BE REQUIRED TO PROVIDE BOTH VERTICAL AND LATERAL SUPPORT FOR THE EXISTING RETAINING WALL DURING CONSTRUCTION OF THE SEAWALL AND NEW RETAINING WALL. THE COST OF THIS TEMPORARY SHORING SHALL BE INCLUDED IN THE CONTRACTORS BID.
- DEMOLITION MATERIALS SHALL BE RECYCLED AT A PERMITTED FACILITY OR DISPOSED OF IN A PERMITTED LANDFILL IN ACCORDANCE WITH THE SPECIFICATIONS.

EROSION CONTROL

- INSTALL A TEMPORARY STABILIZED CONSTRUCTION ENTRANCE TO REMOVE SOIL FROM VEHICLES EXITING THE SITE. PREVENT TRACKING OF SEDIMENT ONTO PUBLIC ROADS, AND SWEEP STREET USED FOR VEHICLE ACCESS TO ENSURE ROADS REMAIN CLEAN.
- CONDUCT GRADING OPERATIONS IN A MANNER THAT CONTROLS WIND BLOWN DIRT AND DUST AND PROTECT NEIGHBORING PROPERTIES. AT MINIMUM PERFORM WATERING AS NEEDED TO PREVENT VISIBLE DUST FROM LEAVING THE JOB SITE.
- FOLLOWING GRADING, ALL DISTURBED AREAS SHALL BE SEEDED AND STABILIZED AS SHOW ON THE EROSION CONTROL PLANS.
- APPLY AND MIX SOIL AMENDMENTS AS SPECIFIED BY SPECS
- ADDITIONAL NOTES ON ESC1 AND ESC2

CONSTRUCTION

- THE PROJECT INVOLVES EXCAVATION, TRANSPORT, AND PLACEMENT OF MATERIAL WITHIN THE INTERTIDAL RANGE.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL WATER MANAGEMENT THROUGHOUT CONSTRUCTION, INCLUDING DEWATERING AND DRAINAGE.
- PRIOR TO MOBILIZING MATERIAL AND EQUIPMENT AT THE SITE, CONTRACTOR SHALL SUBMIT A WORK AND ACCESS PLAN, FOR APPROVAL BY THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH SITE CHARACTERISTICS, INTENT OF THE WORK, AND ALL APPLICABLE PERMIT CONDITIONS. CONTRACTOR SHALL DOCUMENT THEIR UNDERSTANDING THEREOF IN THE WORK AND ACCESS PLAN.

PLANTING

- SEE NOTES ON SHEET L1.

PROJECT BENCHMARK

POINT TABLE				
NUMBER	DESCRIPTION	NORTHING	EASTING	ELEVATION
95	BRASS CAP	209,337.43	1,252,060.77	26.32
97	TACKLEAD	200,839.77	1,254,103.75	13.31
112	MAG NAIL	200,815.72	1,254,279.25	17.38
118	TACKLEAD	200,839.82	1,254,103.58	13.31
120	MAG NAIL	200,831.35	1,254,360.21	22.87

NOTES:

- PROJECT BENCHMARK PER SEATTLE PARKS, JANUARY, 2017
- POINT NUMBER 95 IS NOT SHOWN ON PLANS, LOCATED NEAR INTERSECTION OF SW OREGON ST AND BEACH DRIVE SW.

TIDE DATUM TABLE

STATION 9447130, SEATTLE, WA, EPOCH 1983-2001		
DATUM		EL. NAVD 88, FT
MEAN HIGHER HIGH WATER	MHHW	9.02
MEAN HIGH WATER	MHW	8.15
MEAN TIDE LEVEL	MTL	4.32
MEAN SEA LEVEL	MSL	4.3
MEAN LOW WATER	MLW	0.49
NAVD 88	NAVD88	0.0
MEAN LOWER LOW WATER	MLLW	-2.34

NOTE: TIDAL WATER LEVELS ARE APPROXIMATE AND ARE PROVIDED FOR CONTRACTORS INFORMATION ONLY. ACTUAL WATER LEVELS AT THE TIME OF CONSTRUCTION MAY FLUCTUATE ABOVE AND BELOW THE LEVELS IN THIS TABLE. REFER TO GENERAL NOTES

>>>>CAUTION - CALL 811<<<<
UTILITY NOTIFICATION CENTER
BEFORE YOU DIG!

WWW.CALL811.COM

Also, verify all underground utilities not located by the 811 service by using a commercial location service and call SPR Inspector Request Line (206) 684-7034.

PLOT DATE: 7/20/2019 9:15:16 PM. PLOTTED BY: PABLO GUERRICA. FILE NAME: \\s01-6001\PROJECTS\ES\18062020\Lowman Beach Park\DWG_CADD\mpg02_GENERAL NOTES.dwg

3			
2			
1			
NO.	REVISION - AS BUILT	DATE	

REVISION:	PARK ENGINEER	DATE
<i>All work shall be done in accordance with the City of Seattle Standard Plans and Specifications in effect on the date of the above, and supplemented by Special Provisions.</i>		



LOWMAN BEACH PARK

LOWMAN BEACH PARK
SHORELINE RESTORATION

GENERAL NOTES

DESIGNED	P. GUERRICA	DATE	04/29/2019
DRAWN	L. ENZO		
CHECKED	B. BATTALIO	SHEET	2 OF 25
ORDINANCE NO.	X		
SPECIFICATION NO.	X		
SCALE	AS NOTED		

G2

STRUCTURAL STEEL SPECIAL INSPECTION

SPECIAL INSPECTION FOR STRUCTURAL STEEL SHALL BE ACCORDANCE WITH AISC 341, AISC 360, AND THE FOLLOWING INFORMATION.

TASK - INDICATES WHETHER TO OBSERVE OR PERFORM (OR BOTH) THE INSPECTION TASK.

DOC - THE INSPECTOR SHALL PREPARE REPORTS INDICATING THAT THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

O - OBSERVE THESE FUNCTIONS ON A RANDOM, DAILY BASIS, OPERATIONS NEED NOT BE DELAYED PENDING INSPECTIONS. FREQUENCY OF OBSERVATIONS SHALL BE ADEQUATE TO CONFIRM THAT THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPLICABLE DOCUMENTS.

P - PERFORM, FOR EACH JOINT OR MEMBER PRIOR TO THE FINAL ACCEPTANCE OF THE ITEM.

QC - TASKS INDICATED AS "QC" SHALL BE EXECUTED BY THE FABRICATOR AND ERECTOR IN ACCORDANCE WITH AISC 360 CHAPTER N.

QA - TASKS INDICATED AS "QA" SHALL BE EXECUTED BY THE SPECIAL INSPECTOR IN ACCORDANCE WITH AISC 360 CHAPTER N.

CONCRETE

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD (1)	IBC REFERENCE
1. REINFORCING BAR WELDING:				
a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706	-	X	AWS D1.4 ACI 318: 26.6.4	-
b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"	-	X		
c. INSPECT ALL OTHER WELDS	X	-		
2. INSPECT ANCHORS CAST IN CONCRETE	-	X	ACI 318: 17.8.2	-
3. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS (1)				
a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	X	-	ACI 318: 17.8.2.4	-
b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4a	-	X	ACI 318: 17.8.2	-

1. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318, OR OTHER QUALIFICATION PROCEDURES, WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED. SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF WORK.

BOLTING

INSPECTION TASKS PRIOR TO BOLTING	QC	QA	REFERENCED STANDARD	IBC REFERENCE		
INSPECTION TASKS PRIOR TO BOLTING	QC	QA				
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	O	P	AISC 360 CH. N	1705.2.1		
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	O	O				
PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	O	O				
PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	O	O				
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	O	O				
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	P	O				
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	O	O				
INSPECTION TASKS DURING BOLTING						
INSPECTION TASKS DURING BOLTING	QC	QA				
FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	O	O			AISC 360 CH. N	1705.2.1
JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	O	O				
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	O	O				
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	O	O				
INSPECTION TASKS AFTER BOLTING						
INSPECTION TASKS AFTER BOLTING	QC	QA				
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	P	P	AISC 360 CH. N	1705.2.1		

WELDING

INSPECTION TASKS PRIOR TO WELDING	QC	QA	REFERENCED STANDARD	IBC REFERENCE		
INSPECTION TASKS PRIOR TO WELDING	QC	QA				
WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE	P	P	AISC 360 CH. N & AWS D1.1	1705.2.1		
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	P	P				
MATERIAL IDENTIFICATION (TYPE/GRADE)	O	O				
WELDER IDENTIFICATION SYSTEM (1)	O	O				
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY), JOINT PREPARATION, DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL), CLEANLINESS (CONDITION OF STEEL SURFACES), TACKING (TACK WELD QUALITY AND LOCATION), BACKING TYPE AND FIT (IF APPLICABLE)	O	O				
CONFIGURATION AND FINISH OF ACCESS HOLES	O	O				
FIT-UP OF FILLET WELDS, DIMENSIONS (ALIGNMENT, GAPS AT ROOT), CLEANLINESS (CONDITION OF STEEL SURFACES), TACKING (TACK WELD QUALITY AND LOCATION)	O	O				
CHECK WELDING EQUIPMENT	O	-				
INSPECTION TASKS DURING WELDING						
INSPECTION TASKS DURING WELDING	QC	QA				
USE OF QUALIFIED WELDERS	O	O	AISC 360 CH. N & AWS D1.1	1705.2.1		
CONTROL AND HANDLING OF WELDING CONSUMABLES, PACKAGING, EXPOSURE CONTROL	O	O				
NO WELDING OVER CRACKED TACK WELDS	O	O				
ENVIRONMENTAL CONDITIONS, WIND SPEED WITHIN LIMITS, PRECIPITATION AND TEMPERATURE	O	O				
WPS FOLLOWED, SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED (MIN / MAX), PROPER POSITION (F, V, H, OH)	O	O				
WELDING TECHNIQUES, INTERPASS AND FINAL CLEANING, EACH PASS WITHIN PROFILE LIMITATIONS, EACH PASS MEETS QUALITY REQUIREMENTS	O	O				
INSPECTION TASKS AFTER WELDING						
INSPECTION TASKS AFTER WELDING	QC	QA				
WELDS CLEANED	O	O			AISC 360 CH. N & AWS D1.1	1705.2.1
SIZE, LENGTH AND LOCATION OF WELDS	P	P				
WELDS MEET VISUAL ACCEPTANCE CRITERIA, CRACK PROHIBITION, WELD / BASE-METAL FUSION, CRATER CROSS SECTION, WELD PROFILES, WELD SIZE, UNDERCUT, POROSITY	P	P				
ARC STRIKES	P	P				
K-AREA (2)	P	P				
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	P	P				
REPAIR ACTIVITIES	P	P				
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	P	P				

- THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE.
- WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3 INCHES OF THE WELD.

TESTS

CONCRETE

- VERIFICATION OF SPECIFIED CONCRETE COMPRESSIVE STRENGTH, f'_c , IN ACCORDANCE WITH ACI 318-14 SECTION 26.12.
- VERIFICATION OF SPECIFIED AIR CONTENT, SLUMP, AND TEMPERATURE IN ACCORDANCE WITH ACI 318-14 SECTION 26.12 AT TIMES FRESH CONCRETE IS SAMPLED.

PAYMENT

- THE CONTRACTOR SHALL PAY FOR SPECIAL INSPECTION.
- CONTRACTOR SHALL COORDINATE TO ENSURE ALL CONTRACT REQUIRED INSPECTIONS ARE PERFORMED INCLUDING THOSE REQUIRED BY BUILDING DEPARTMENT PERMITS. ALL SPECIFIED INSPECTION AND TESTING SHALL BE PERFORMED BY CONTRACTOR AT NO ADDITIONAL COST.

COORDINATION/SUBMITTALS

- TESTING AND INSPECTION RESULTS SHALL BE SUBMITTED TO THE OWNER.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL INSPECTION AND TESTING ACTIVITIES, AND SHALL SUBMIT QUALIFICATION OF THE TESTING LAB TO THE OWNER PRIOR TO ANY TESTING/INSPECTION BEING PERFORMED. A TESTING PLAN LISTING ALL INSPECTION WORK ITEMS SHALL BE SUBMITTED TO OWNER PRIOR TO PERFORMING ANY TESTING/INSPECTIONS.

ADDITIONAL REQUIREMENTS

- IBC AND SBC REQUIREMENTS APPLY, INCLUDING SBC SECTION 1704. NOTE SPECIAL INSPECTIONS AT A FABRICATOR ARE NOT REQUIRED IF A FABRICATOR IS PRE-QUALIFIED (SBC 1704.2.5.1)

>>>>CAUTION - CALL 811<<<<
UTILITY NOTIFICATION CENTER
BEFORE YOU DIG!

WWW.CALL811.COM

Also, verify all underground utilities not located by the 811 service by using a commercial locator service and call SPR Inspection Request Line (206) 884-7034.

NOTES:

- THESE NOTES APPLY TO SHEETS CS, CA, C7, AND C8.



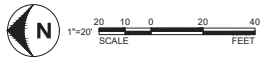
NO.	REVISION - AS BUILT	DATE
3		
2		
1		

REVIEWED: **PARK ENGINEER** **DATE**
 All work done in accordance with the City of Seattle Standard Plans and Specifications in effect on the date shown above, and supplemented by Special Provisions.



LOWMAN BEACH PARK
LOWMAN BEACH PARK
SHORELINE RESTORATION

STRUCTURAL GENERAL NOTES		
DESIGNED: JSP	DATE: 04/26/2019	
DRAWN: EDO		
CHECKED: CHR	SHEET: 4 OF 23	
ORDINANCE NO. X	G4	
SPECIFICATION NO. X		
SCALE: AS NOTED		



BEACH DRIVE SW

18" PSS

NOTES:

1. EXISTING GRADE SURFACE BASED ON SURVEY CONDUCTED BY SEATTLE PARKS AND RECREATION (2017) AND ESA (2019). SEE SHEET G2 GENERAL NOTES SURVEY SECTION.
2. PROPERTY LINES SHOWN ARE FOR INFORMATIONAL PURPOSES ONLY.
3. LOCATION OF EXISTING OUTFALL AND PELLY CREEK PIPE IS APPROXIMATE. VERIFY ON THE FIELD.

>>>>CAUTION - CALL 811<<<<
 UTILITY NOTIFICATION CENTER
 BEFORE YOU DIG!
 WWW.CALL811.COM

Also, verify all underground utilities not located by the 811 service by using a commercial location service and call SPR Inspection Request Line (206) 684-7034.

ABBREVIATIONS:

PIP	PROTECT IN PLACE
VIF	VERIFY IN FIELD
TYP	TYPICAL
OHWM	ORDINARY HIGH WATER MARK
MHHW	MEAN HIGHER HIGH WATER
RCP	REINFORCED CONCRETE PIPE
PSS	PIP SANITARY SEWER
CSO	COMBINED SEWER DIVERSION

LEGEND:

	PROPERTY LINE
	PROJECT LIMITS
	(E) CONTOUR, MAJOR
	(E) CONTOUR, MINOR
	OHWM
	MHHW
	(E) FENCE
	66" RCP OUTFALL
	GRAVEL PATH
	ASPHALT
	PUBLIC SIGN
	CONTROL POINT

3		
2		
1		
NO.	REVISION - AS BUILT	DATE

REVIEWED:

	PARK ENGINEER	DATE
--	----------------------	-------------

All work shall be done in accordance with the City of Seattle Standard Plans and Specifications to the 2018 International Building Code, and Supplemental to Specific Provisions.

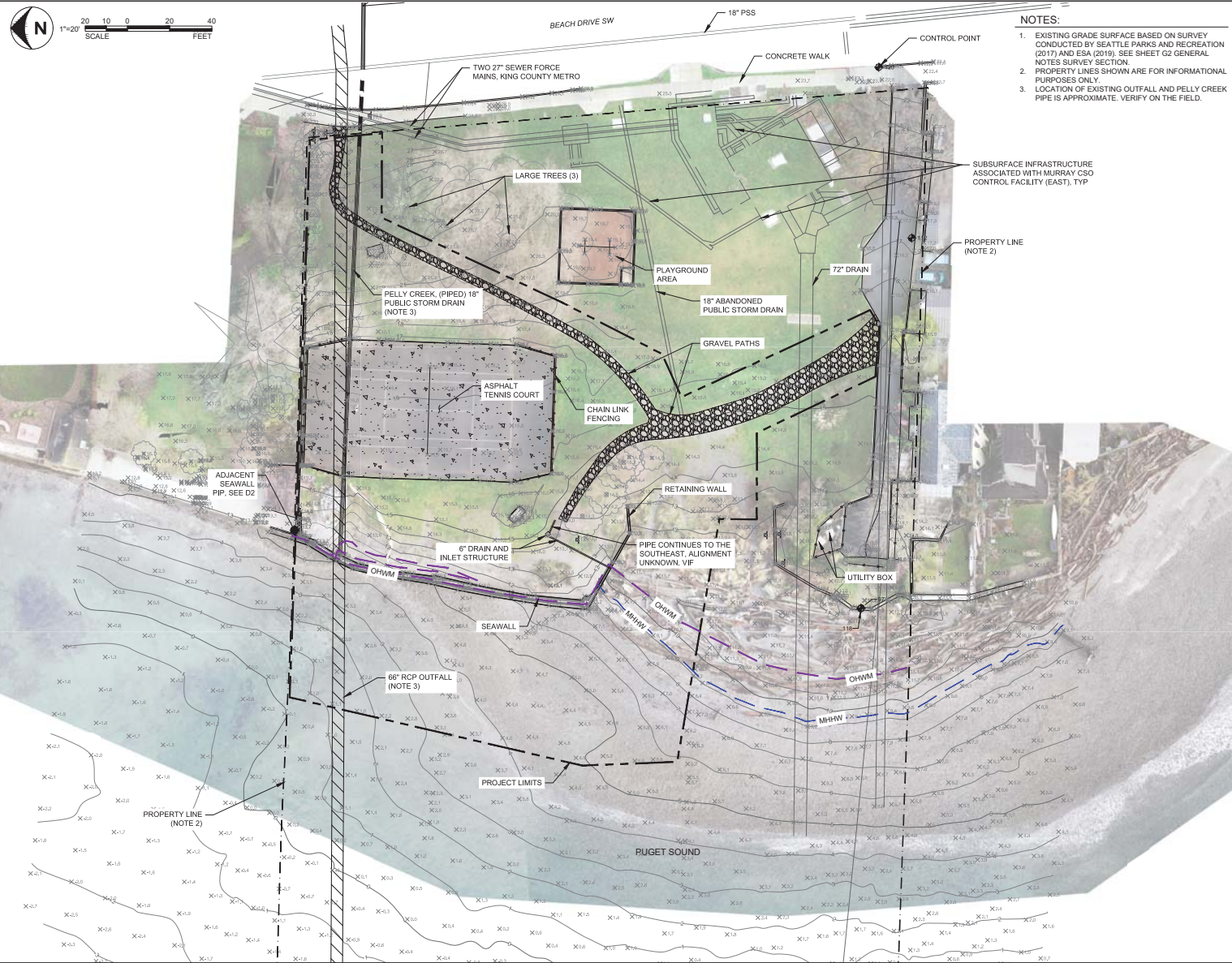
5309 SHILSHOLE AVE. NW
 STE. 200
 SEATTLE, WA 98107
 OFFICE: 206.789.9058
 WWW.ESASURVEY.COM

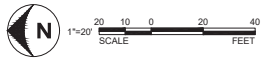
LOWMAN BEACH PARK
 SHOWN BEACH PARK
 SHORELINE RESTORATION

EXISTING CONDITIONS

DESIGNED	PSD	DATE	04/29/2019
DRAWN	DSB		
CHECKED	STB	SHEET	5 OF 25
ORDINANCE NO.	X		G5
SPECIFICATION NO.	X		
SCALE	AS NOTED		

PLOT DATE: 7/26/2019 2:15:48 PM. PLOTTED BY: PAOLO QUAROGA. FILE NAME: \\s01\proj\PROJECTS\SEA\19020200\Lowman Beach Park\06_CADD\top\06_EXISTING CONDITIONS.dwg





TO LINCOLN PARK WAY SW
 CENTER OF ROAD
 BEACH DRIVE SW
 TO BEACH DRIVE SW DEAD END



>>>>CAUTION - CALL 811<<<<
 UTILITY NOTIFICATION CENTER
 BEFORE YOU DIG!
 WWW.CALL811.COM
 Also, verify all underground utilities not located by the 811 service by using a commercial location service and call SPR Inspection Request Line (206) 684-7034.

ABBREVIATIONS:
 PIP PROTECT IN PLACE
 (E) EXISTING
 FT FEET

LEGEND:

- PROPERTY LINE
- - - PROJECT LIMITS
- - - (E) FENCE
- ▨ GRAVEL PATH
- ▩ ASPHALT
- ACCESS ROUTE
- STAGING
- PUBLIC SIGN
- ▨ STABILIZED CONSTRUCTION ENTRANCE

3		
2		
1		
NO.	REVISION - AS BUILT	DATE

REVISION:
 PARK ENGINEER DATE
 All work shall be consistent with the City of Seattle Standard Plans and Specifications to RCW 89A.10.040 unless otherwise noted, and supplemented by Special Provisions.

ESA
 5309 SHILOH AVE. NW
 STE 200
 SEATTLE, WA 98107
 OFFICE: 206.789.9058
 WWW.ESASDC.COM



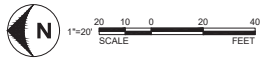
LOWMAN BEACH PARK
 LOWMAN BEACH PARK
 SHORELINE RESTORATION

SITE ACCESS & STAGING

DESIGNED: PDD	DATE: 04/29/2019
DRAWN: DMS	
CHECKED: STE	SHEET: 6 OF 25
ORDINANCE NO. X	G6
SPECIFICATION NO. X	
SCALE: AS NOTED	

- NOTES:**
1. CONTRACTORS ACCESS SHALL BE LIMITED TO CONSTRUCTION ACCESS, STAGING PREP, AND PROJECT LIMITS SHOWN ON THIS PLAN OR APPROVED BY OWNER.
 2. BEACH DRIVE SW ALLEY IS THE ONLY ACCESS ROAD TO THE SITE.
 3. USE OF (E) BEACH FOR STAGING AND CONSTRUCTION ACTIVITIES IS RESTRICTED. SEE GENERAL NOTES.
 4. PRIMARY STAGING AREA TO BE USED DURING DEMOLITION AND SEAWALL CONSTRUCTION.
 5. SECONDARY STAGING AREA TO BE USED DURING GRADING, PELLE CREEK DAYLIGHTING, AND BEACH PLACEMENT.
 6. REBUILD GRAVEL PATH IF DAMAGED AFTER THE END OF THE PROJECT.
 7. ENFORCE APPLICABLE BMP'S AT ALL TIMES. SEE SPECIFICATIONS.

PLOT DATE: 10/20/2019 2:16:33PM PLOTTED BY: PABLO QUIMBOGA FILE NAME: \\s01\p01\PROJECTS\EA\180202-00\Lowman Beach Park\06_CADD\map\06 SITE ACCESS & STAGING.dwg



>>>>CAUTION - CALL 811<<<<
 UTILITY NOTIFICATION CENTER
 BEFORE YOU DIG!
 WWW.CALL811.COM
 Also, verify all underground utilities not located by the 811 service by using a commercial location service and call SPR Inspection Request Line (206) 684-7034.

- NOTES:**
- DO NOT DISTURB SITE ELEMENTS OUTSIDE OF LIMIT OF WORK.
 - IRRIGATION SYSTEM PRESENT ON SITE. VIF AND DEMOLISH AS DIRECTED BY OWNERS REPRESENTATIVE.
 - BASED ON PARKS AND RECREATIONS 1927 PARKS. CONCRETE WALL ONLY PRESENT ON THE EAST SIDE OF THE TENNIS COURT.
 - PROTECT EXISTING UTILITIES IN PLACE UNLESS OTHERWISE INDICATED ON THE PLANS.

ABBREVIATIONS:

PIP	PROTECT IN PLACE
(E)	EXISTING
FT	FEET
VIF	VERIFY IN FIELD
PSD	PUBLIC STORM DRAIN
RCP	REINFORCED CONCRETE PIPE

LEGEND:

---	PROPERTY LINE
- - - - -	PROJECT LIMITS
---	SHEET MATCHLINE
	66" OUTFALL (PIP)
	GRAVEL PATH (DEMO)
	PELLY CREEK 18"
	PELLY CREEK 18" (DEMO)

3		
2		
1		
NO.	REVISION - AS BUILT	DATE

REVISION: PARK ENGINEER DATE

All work shall be done in accordance with the City of Seattle Standard Plans and Specifications or other applicable codes, orders, and amendments by Special Provisions.

ESA 5309 SHILOH AVE. NW
 STE. 200
 SEATTLE, WA 98107
 OFFICE: 206.789.9058
 WWW.ESASDC.COM

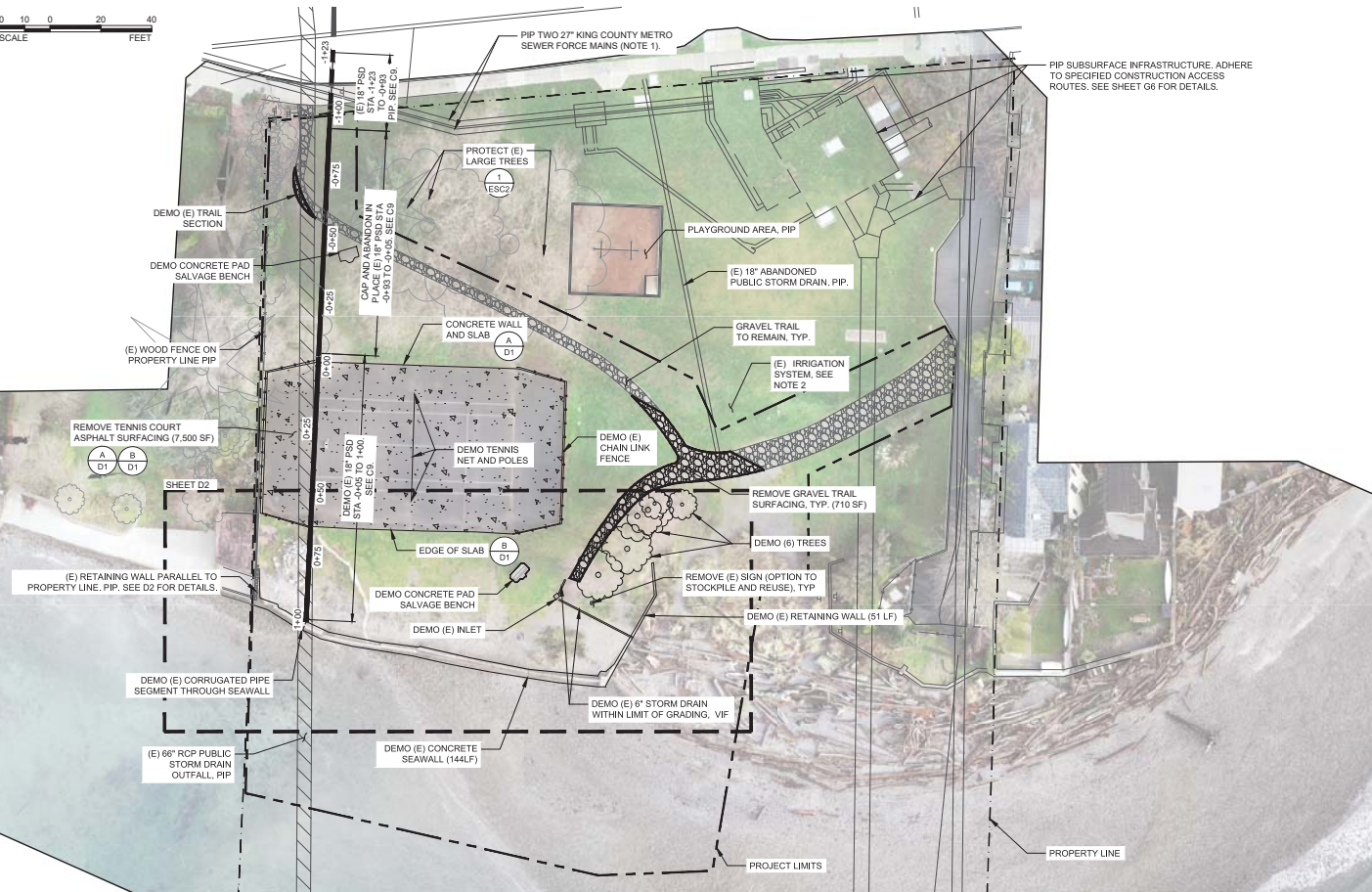


LOWMAN BEACH PARK
 LOWMAN BEACH PARK
 SHORELINE RESTORATION

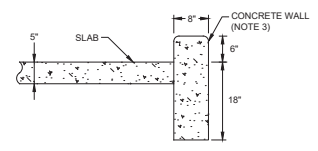
DEMOLITION PLAN

DESIGNED	P. OLIVIERA	DATE	04/29/2019
DRAWN	L. ENZO		
CHECKED	S. BATTALIO	SHEET	7 OF 25
ORDINANCE NO.	X		
SPECIFICATION NO.	X		
SCALE	AS NOTED		

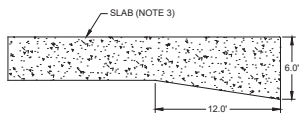
PLOT DATE: 7/20/2019 5:16:42 PM PLOTTED BY: PABLO OLIVIERA FILE NAME: \\s01\001\PROJECTS\ESA\190427\00_Lowman_Beach_Park\01_DEMOLITION_PLAN.dwg



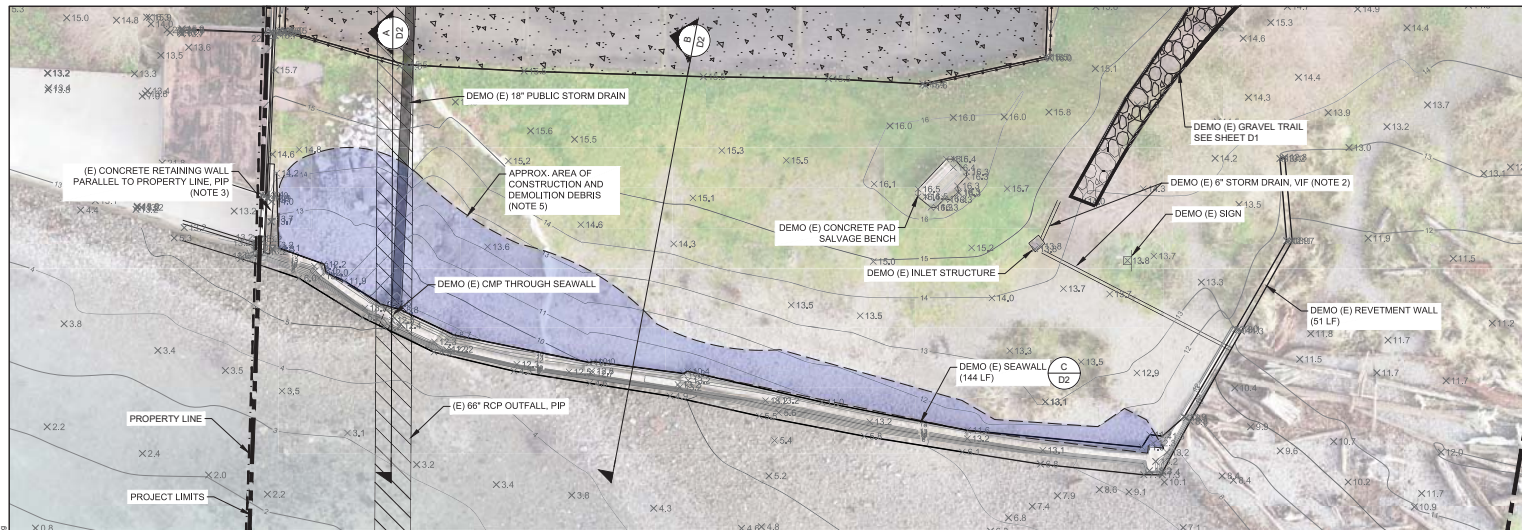
DEMOLITION PLAN
 SCALE: 1"=20'



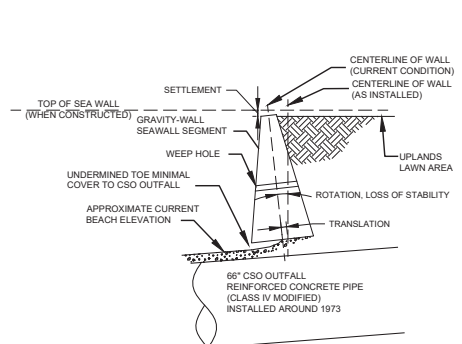
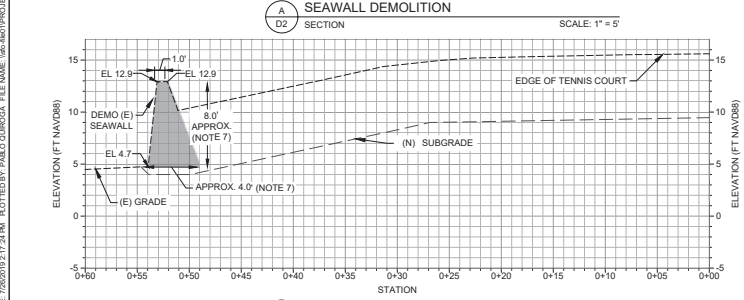
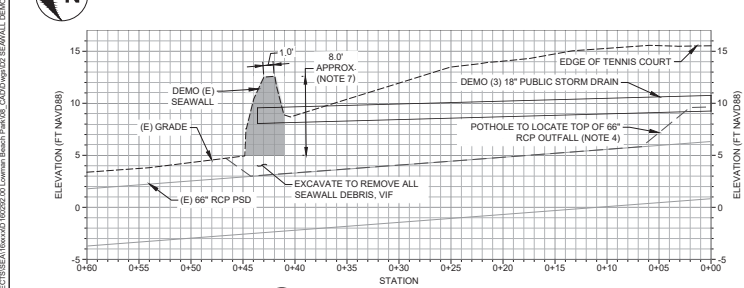
A CONCRETE WALL AND SLAB
 TYPICAL SECTION SCALE: 1"=5'



B EDGE OF SLAB
 TYPICAL SECTION SCALE: 1"=1'



SEAWALL DEMOLITION
PLAN VIEW SCALE: 1" = 8'



- NOTES:**
- DO NOT DISTURB SITE ELEMENTS OUTSIDE OF LIMIT OF WORK.
 - IRRIGATION SYSTEM PRESENT ON SITE. VIF AND DEMOLISH AS DIRECTED BY OWNERS REPRESENTATIVE.
 - THE DEPTH OF THE EXISTING ADJACENT RETAINING WALL IS UNKNOWN. TEMPORARY SHORING MAY BE REQUIRED TO PROVIDE BOTH VERTICAL AND LATERAL SUPPORT FOR THE EXISTING RETAINING WALL DURING CONSTRUCTION.
 - BEFORE DEMOLITION, LOCATE AND PARTIALLY UNCOVER THE TOP OF THE EXISTING 66" RCP OUTFALL CONTRACTOR REQUIRED TO BALLAST PIPE TO PREVENT VERTICAL MOVEMENT AND TO BRACE TO PREVENT LATERAL MOVEMENT WHILE LOCATING THE PIPE. REBURY AFTER DEMOLITION OF (E) SEAWALL AND CONSTRUCTION OF (N) SEAWALL.
 - OLD WALL REMNANTS AND EXCAVATION MATERIAL BURIED. LOCATION IS SHOWN AS APPROXIMATE BASED ON 1951 PLANS.
 - PROTECT EXISTING UTILITIES IN PLACE UNLESS OTHERWISE INDICATED ON THE PLANS.
 - BASE AND HEIGHT OF SEAWALL SHOWN APPROXIMATE BASED ON 1951 PLANS.

>>>>CAUTION - CALL 811<<<<
UTILITY NOTIFICATION CENTER
BEFORE YOU DIG!
 WWW.CALL811.COM
 Also, verify all underground utilities not located by the 811 service by using a commercial location service and call SPR Inspection Request Line (206) 684-7034.

ABBREVIATIONS:

PIP	PROTECT IN PLACE
(E)	EXISTING
FT	FEET
MHW	MEAN HIGH OR HIGHWATER
OHWM	ORDINARY HIGH WATER MARK
CMP	CORRUGATED METAL PIPE
PSD	PUBLIC STORM DRAIN
RCP	REINFORCED CONCRETE PIPE
CSO	COMBINED SEWER OVERFLOW

LEGEND:

	PROPERTY LINE
	PROJECT LIMITS
	(E) CONTOUR, MAJOR
	(E) CONTOUR, MINOR
	66" OUTFALL
	GRAVEL PATH (DEMO)
	OLD WALL & EXCAVATION MATERIAL
	(E) GRADE (SECTION)
	SUBGRADE (SECTION)
	(E) TOP OF PIPE

3		
2		
1		
NO.	REVISION - AS BUILT	DATE

REVISION: _____ **PARK ENGINEER** _____ **DATE** _____
 All work shall be done in accordance with the City of Seattle Standard Plans and Specifications, effective July 1, 1996, unless otherwise noted, and supplemented by Special Provisions.

ESA 5309 SHILOH AVE. NW
 SUITE 200
 SEATTLE, WA 98107
 OFFICE: 206.799.9058
 WWW.ESASDC.COM

60% NOTED
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF WASHINGTON
 EXPIRES 12/31/2024

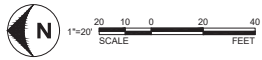
Seattle Parks & Recreation

LOWMAN BEACH PARK
 SHOWN BEACH PARK
 SHORELINE RESTORATION

SEAWALL DEMOLITION

DESIGNED: P. OLIVIERA	DATE: 04/29/2019
DRAWN: J. SMITH	
CHECKED: B. BATTALIO	SHEET: 8 OF 25
ORDINANCE NO. X	D2
SPECIFICATION NO. X	
SCALE: AS NOTED	

PLOT DATE: 10/20/2019 11:28 AM. PLOTTED BY: PABLO OLIVIERA. FILE NAME: I:\60401\PROJECTS\SEA\180202-00\Lowman Beach Park\SEA_CADD\reg\02_SEAWALL DEMOLITION.dwg



SHEET C3

SHEET C2

SHEET C10

SHEET C5

PELLY CREEK PIPE REALIGNMENT, SEE SHEET C9

LANDSCAPE WORK
SEE SHEETS L1 AND L2

DAYLIGHT PELLY CREEK,
SEE SHEETS C10 TO C13

NEW ADA PATH
SEE SHEET L1

NEW LANDING PAD
SEE SHEET L1

NEW GRAVEL BEACH,
SEE SHEET C1 TO C4

CONSTRUCTION OF NEW
RETURN SEAWALL,
SEE SHEETS C5 TO C8

GRADING LIMITS

PROJECT LIMITS

PROPERTY LINE

>>>>CAUTION - CALL 811<<<<
UTILITY NOTIFICATION CENTER
BEFORE YOU DIG!
WWW.CALL811.COM
Also, verify all underground utilities not located by the
811 service by using a commercial location service and
call SPR Inspection Request Line (206) 684-7034.

NOTES:

ABBREVIATIONS:

LEGEND:

- PROPERTY LINE
- PROJECT LIMITS
- (E) CONTOUR, MAJOR
- (N) CONTOUR, MAJOR
- (E) CONTOUR, MINOR
- (N) CONTOUR, MINOR
- GRADING LIMITS
- SHEET MATCHLINE
- (N) PELLY CREEK PIPE

3		
2		
1		
NO.	REVISION - AS BUILT	DATE

REVISION: **PARK ENGINEER** DATE

All work shall be coordinated with the City of Seattle Department
Parks and Recreation to obtain the 609 Street Closure, and
Supplemental to Special Provisions.

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STE. 200
SEATTLE, WA 98107
OFFICE: 206.789.9058
WWW.ESASDC.COM

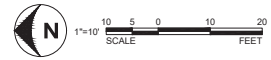


LOWMAN BEACH PARK
LOWMAN BEACH PARK
SHORELINE RESTORATION
OVERALL DESIGN PLAN

DESIGNED: PDD	DATE: 04/29/2019
DRAWN: DCS	
CHECKED: STB	SHEET 9 OF 25
ORDINANCE NO. X	C1
SPECIFICATION NO. X	
SCALE: AS NOTED	

PLT DATE: 7/20/2019 8:17:52 PM PLOTTED BY: PABLO OLIVERO, FILE NAME: \\s01\p01\PROJECTS\EA\180202-00\Lowman Beach Park\04_CAZZ\top\C1 OVERALL DESIGN PLAN.rvt

PLOT DATE: 7/20/2019 2:15:14 PM PLOTTED BY: PABLO OLIVEROLA FILE NAME: \\s01\proj\projects\18\180020\00\Lowman Beach Park\00_CAD\top\C2 BEACH GRADING PLAN.dwg



>>>>CAUTION - CALL 811<<<<
 UTILITY NOTIFICATION CENTER
 BEFORE YOU DIG!
 WWW.CALL811.COM

Also, verify all underground utilities not located by the 811 service by using a commercial location service and call SPR Inspection Request Line (206) 684-7034.

- NOTES:**
1. CONSTRUCT GRAVEL BEACH AS SHOWN ON THIS PLANS AND PER SECTIONS ON SHEET C3 AND C4 AND ACCORDING TO SPECIFICATIONS.
 2. BURIED TWO-MAN ROCK STREAM BED BOULDERS AT THE EDGE OF BACK BEACH. CONSTRUCT AS SHOWN ON THIS PLANS AND PER SECTIONS ON SHEET C4 AND ACCORDING TO SPECIFICATIONS.

ABBREVIATIONS:

PIP	PROTECT IN PLACE
(E)	EXISTING
(N)	NEW
FT	FEET

LEGEND:

- PROPERTY LINE
- PROJECT LIMITS
- (E) CONTOUR, MAJOR
- (E) CONTOUR, MINOR
- (N) CONTOUR, MAJOR
- (N) CONTOUR, MINOR
- GRADING LIMITS
- (E) FENCE
- 66" OUTFALL
- BEACH BENCH
- EDGE OF BACK BEACH

NO.	REVISION - AS BUILT	DATE
3		
2		
1		

REVISION: **PARK ENGINEER** **DATE**
 All work shall be done in accordance with the City of Seattle Standard Plans and Specifications to either the 1995 street plans, and Supplemental by Special Provisions.

ESA
 5309 SHILSHOLE AVE., NW
 STE. 200
 SEATTLE, WA 98107
 OFFICE: 206.789.9058
 WWW.ESASDC.COM

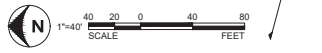
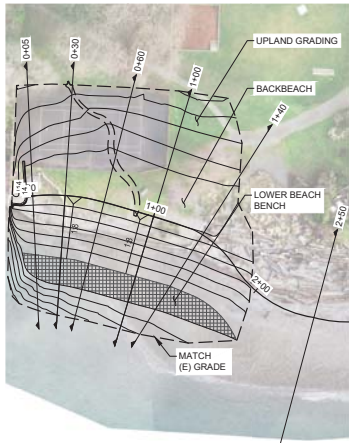
ROBERT T. BYNUM
 STATE OF WASHINGTON
 609 NOTARY ACTION
 PROFESSIONAL ENGINEER

Seattle Parks & Recreation

LOWMAN BEACH PARK
 LOWMAN BEACH PARK
 SHORELINE RESTORATION

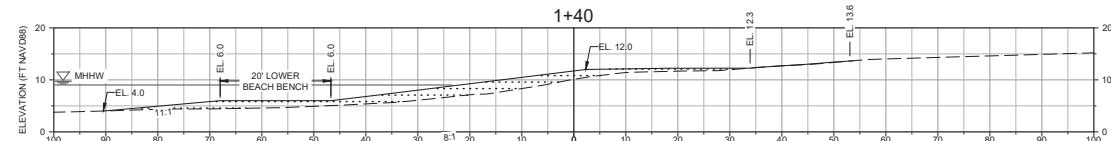
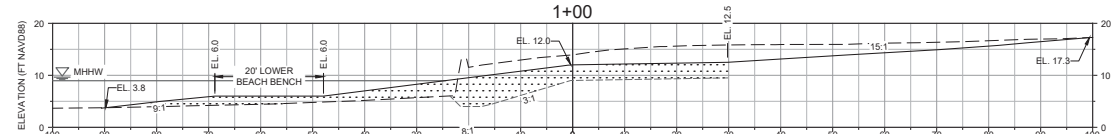
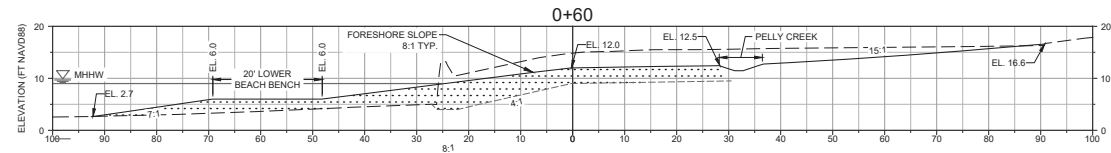
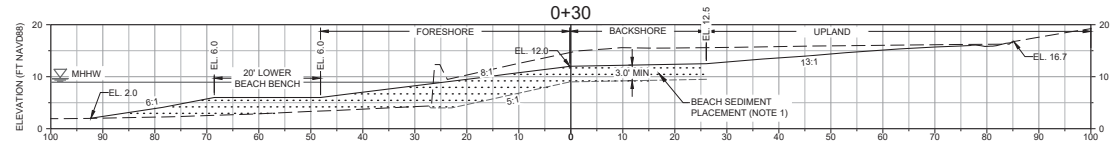
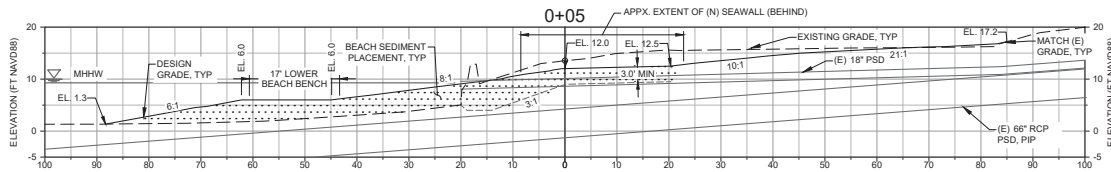
BEACH GRADING PLAN

DESIGNED: PBO	DATE: 04/29/2019
DRAWN: DMS	SHEET: 10 OF 25
CHECKED: STB	
ORDINANCE NO. X	C2
SPECIFICATION NO. X	
SCALE: AS NOTED	



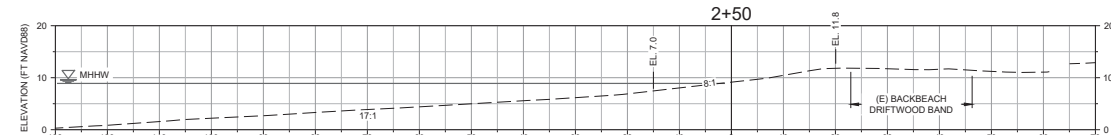
SECTION LAYOUT

PLAN VIEW SCALE: 1" = 40'



BEACH GRADING SECTIONS

SECTIONS SCALE: 1" = 10'



REFERENCE BEACH

SECTION SCALE: 1" = 10'

NOTES:

1. OVER-EXCAVATE AT LEAST 3 FT BELOW DESIGN GRADE FOR PLACEMENT OF BEACH SEDIMENT.
2. STOCKPILE SALVAGEABLE GRAVEL MATERIAL FOR REUSE. STOCKPILE SHALL BE CLEANED OF SEDIMENT AND DEBRIS PRIOR TO REUSE. PER SPECIFICATIONS.
3. HORIZONTAL PLACEMENT CONTROL OF NEW BEACH GRADING TO BE DETERMINED.
4. CONTRACTOR SHALL PLACE BEACH NOURISHMENT MATERIAL AS SHOWN ON THE SECTIONS ON THIS SHEET AND SHEET C4.

>>>>CAUTION - CALL 811<<<<
UTILITY NOTIFICATION CENTER
BEFORE YOU DIG!

WWW.CALL811.COM

Also, verify all underground utilities not located by the 811 service by using a commercial location service and call SPR Inspection Request Line (206) 684-7034.

ABBREVIATIONS:

MHHW	MEAN HIGHER HIGH WATER
(E)	EXISTING
FT	FEET
TYP	TYPICAL
RCP	REINFORCE CONCRETE PIPE
PIP	PROTECT IN PLACE
PSD	PUBLIC STORM DRAIN

LEGEND:

	WATER SURFACE EL.
	(E) GRADE, SECTION
	(N) GRADE, SECTION
	GRADING LIMITS
	(N) SUBGRADE
	LOWER BEACH BENCH
	BEACH FILL
	TOP OF SLOPE
	TOE OF SLOPE

NO.	REVISION - AS BUILT	DATE
3		
2		
1		

REVISIONS:

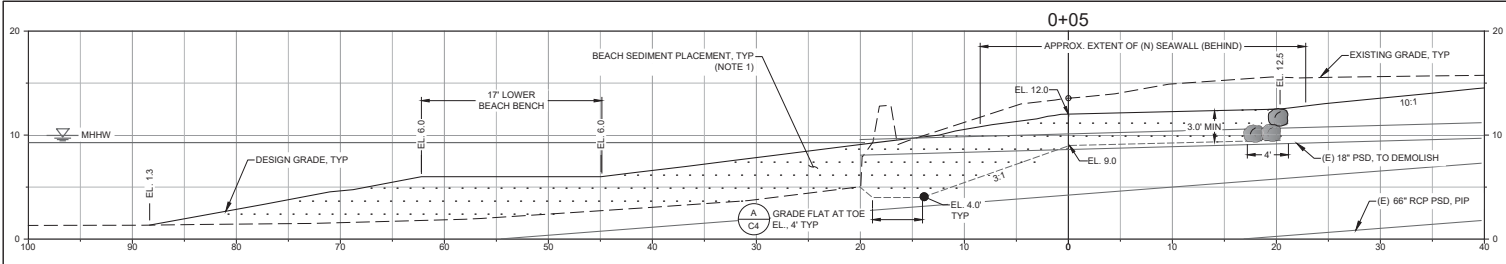
PARK ENGINEER DATE
All work shall be in accordance with the City of Seattle Standard Plans and Specifications to which the City of Seattle refers, and Supplemental by Special Provisions.

LOWMAN BEACH PARK
LOWMAN BEACH PARK
SHORELINE RESTORATION

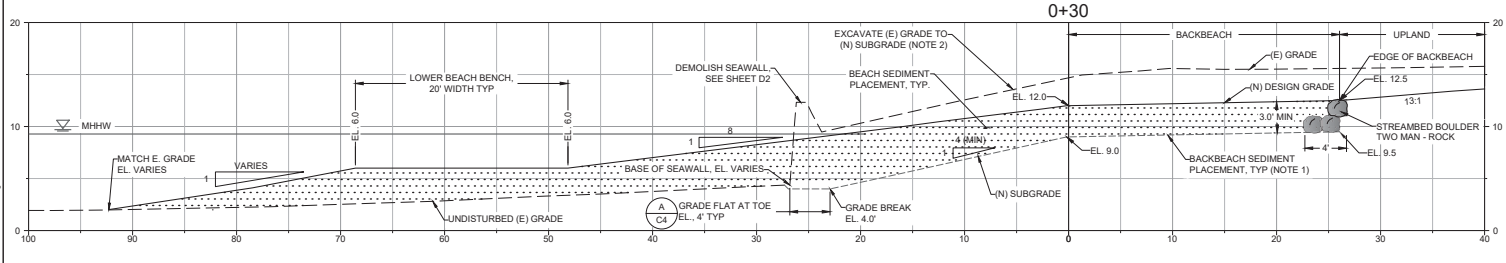
BEACH GRADING SECTIONS

DESIGNED: PSD	DATE: 04/29/2019
DRAWN: JMS	
CHECKED: STB	SHEET 11 OF 25
ORDINANCE NO. X	C3
SPECIFICATION NO. X	
SCALE: AS NOTED	

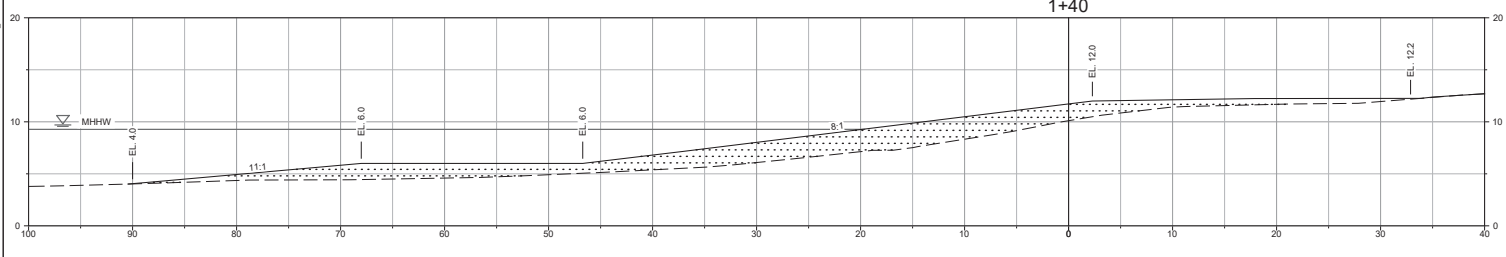
PLOT DATE: 7/26/2019 2:18:53 PM PLOTTED BY: PABLO QUINONES FILE NAME: W:\6407\PROJECTS\EA\Revise\10202020\Lowman Beach Park\6407_C42D.dwg



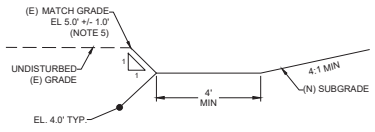
TYPICAL BEACH SECTION - SEAWALL REMOVAL
 DETAIL SECTION SCALE: 1" = 5'



TYPICAL BEACH SECTION - SEAWALL REMOVAL
 DETAIL SECTION SCALE: 1" = 5'



SOUTH BEACH-TRANSITION SECTION
 DETAIL SECTION SCALE: 1" = 5'



EXCAVATION DETAIL
 DETAIL SCALE: 1" = 2'

- NOTES:**
- OVER-EXCAVATE AT LEAST 3 FT BELOW DESIGN GRADE FOR PLACEMENT OF BEACH SEDIMENT.
 - STOCKPILE SALVAGEABLE GRAVEL MATERIAL FOR REUSE. STOCKPILE SHALL BE CLEANED OF SEDIMENT AND DEBRIS PRIOR TO REUSE, PER SPECIFICATIONS.
 - HORIZONTAL PLACEMENT CONTROL OF NEW BEACH GRADINGS TO BE DETERMINED.
 - CONTRACTOR SHALL PLACE BEACH NOURISHMENT MATERIAL AS SHOWN ON THE SECTIONS ON THIS SHEET AND SHEET C3.
 - IF EXISTING GRADE IS HIGHER THAN 4.0', CATCH GRADE ON 1:1 SLOPE OR FLATTER.

>>>>CAUTION - CALL 811<<<<
UTILITY NOTIFICATION CENTER
BEFORE YOU DIG!
 WWW.CALL811.COM
Also, verify all underground utilities not located by the 811 service by using a commercial location service and call SPR Inspector Request Line (206) 684-7034.

ABBREVIATIONS:

MHHW	MEAN HIGHER HIGH WATER
(E)	EXISTING
FT	FEET
(N)	NEW
TYP	TYPICAL
PIP	PROTECT IN PLACE
RCP	REINFORCE CONCRETE PIPE
PSD	PUBLIC STORM DRAIN

LEGEND:

	WATER SURFACE EL.
	(E) GRADE, SECTION
	(N) GRADE, SECTION
	GRADING LIMITS
	(N) SUBGRADE
	BEACH FILL

NO.	REVISION - AS BUILT	DATE
3		
2		
1		

REVISION: PARK ENGINEER DATE
All work shall be consistent with the City of Seattle Standard Plans and Specifications to RCW Title 19, 696 Street Signs, and Supplemental by Special Provisions.

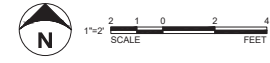
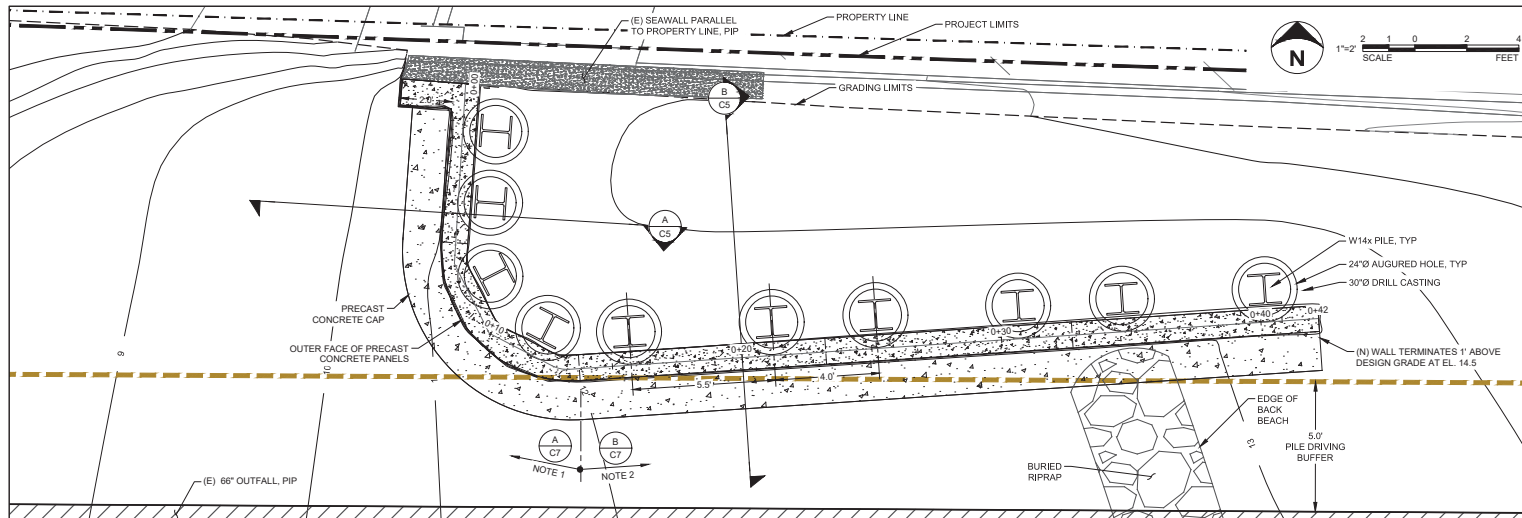
	5309 SHILOH AVE. NW STE. 200 SEATTLE, WA 98107 OFFICE - 206.789.9058 WWW.ESASIGN.COM
--	--

	CONTRACTOR CONSTRUCTION
--	--

LOWMAN BEACH PARK
LOWMAN BEACH PARK
SHORELINE RESTORATION

BEACH GRADING DETAILS

DESIGNED: PQQ	DATE: 04/29/2019
DRAWN: DMS	SHEET 12 OF 25
CHECKED: STE	
ORDINANCE NO. X	C4
SPECIFICATION NO. X	
SCALE: AS NOTED	



>>>>CAUTION - CALL 811<<<<
UTILITY NOTIFICATION CENTER
BEFORE YOU DIG!
 WWW.CALL811.COM
 Also, verify all underground utilities not located by the 811 service by using a commercial location service and call SPR Inspection Request Line (206) 684-7034.

ABBREVIATIONS:

PIP	PROTECT IN PLACE
(E)	EXISTING
FT	FEET
(N)	NEW
TYP	TYPICAL

LEGEND:

	PROPERTY LINE
	PROJECT LIMITS
	(E) CONTOUR, MAJOR
	(E) CONTOUR, MINOR
	(N) CONTOUR, MAJOR
	(N) CONTOUR, MINOR
	GRADING LIMITS
	(E) FENCE
	66\"/>
	BUFFER
	(N) BEACH BELOW SEAWALL
	DESIGN GRADE
	(E) GRADE

Reid Middleton 739 1190 2nd St. Suite 202
 Everett, Washington 98204
 PH: 425-741-3800
 www.reidmiddleton.com

NO.	REVISION - AS BUILT	DATE
3		
2		
1		

REVISION: **PARK ENGINEER** **DATE**
 All work shall conform with the City of Seattle Standard Plans and Specifications to RCW Title 22A, Chapter 22A-050, and Supplemental to Special Provisions.

ESA 5309 SHILOH AVE. NW
 STE. 200
 SEATTLE, WA 98107
 OFFICE: 206.789.9058
 WWW.ESASBC.COM

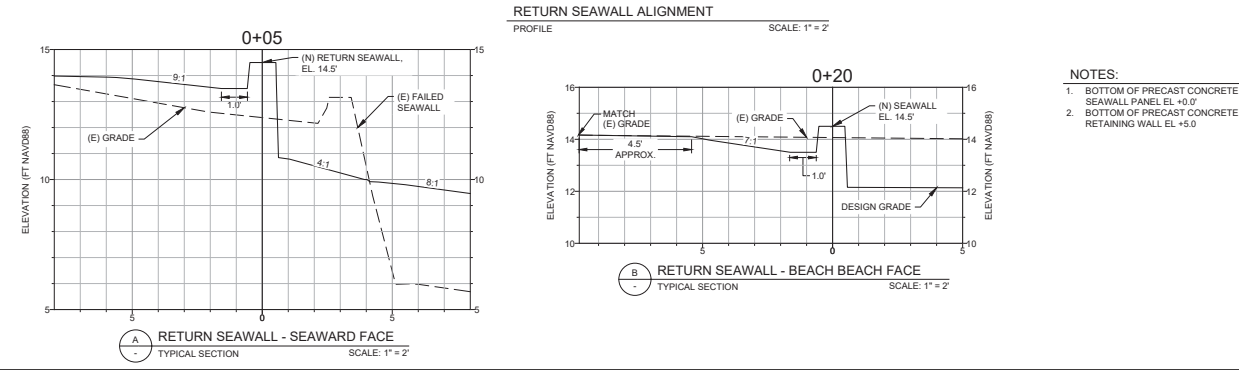
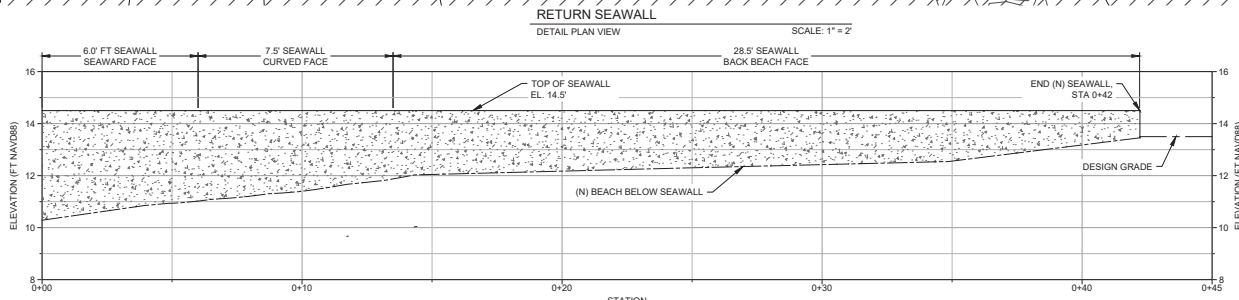


Seattle Parks & Recreation

LOWMAN BEACH PARK
LOWMAN BEACH PARK
SHORELINE RESTORATION

SEAWALL PLAN

DESIGNED: P. OLSEN	DATE: 04/29/2019
DRAWN: L. ENZO	
CHECKED: B. BATTALIO	SHEET 13 OF 25
ORDINANCE NO. X	C5
SPECIFICATION NO. X	
SCALE: AS NOTED	



- NOTES:**
- BOTTOM OF PRECAST CONCRETE SEAWALL PANEL EL +0.0'
 - BOTTOM OF PRECAST CONCRETE RETAINING WALL EL +5.0'

PLOT DATE: 7/20/2019 2:10:28 PM PLOTTED BY: PABLO QUINOCOA FILE NAME: \\s01\proj\PROJECTS\18100202-00\Lowman Beach Park\06_CAZD\reg\02_SEAWALL_PLAN.dwg

**>>>>CAUTION - CALL 811<<<<
UTILITY NOTIFICATION CENTER
BEFORE YOU DIG!**

WWW.CALL811.COM

Also, verify all underground utilities not located by the 811 service by using a commercial locator service and call SPR Inspection Request Line (206) 684-7034.

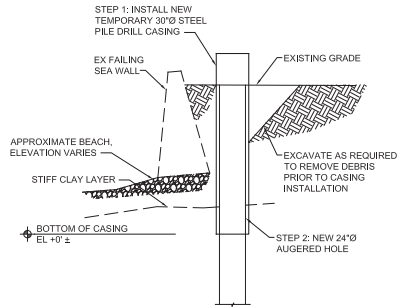
NOTES:

1. VERTICAL DATUM = NAVD83

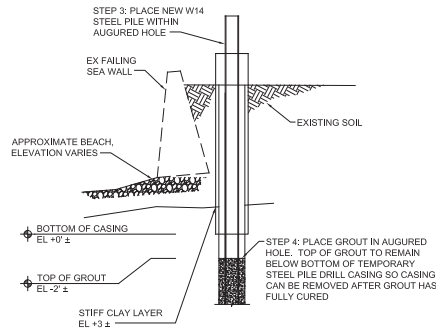
ABBREVIATIONS:

EL ELEVATION
EX EXISTING
NFS NOT TO SCALE

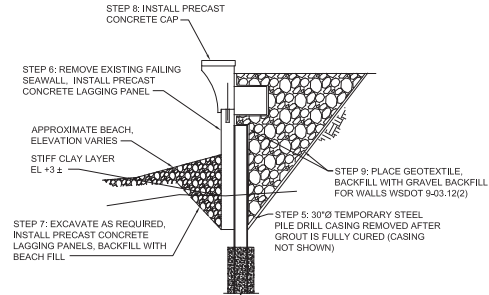
LEGEND:



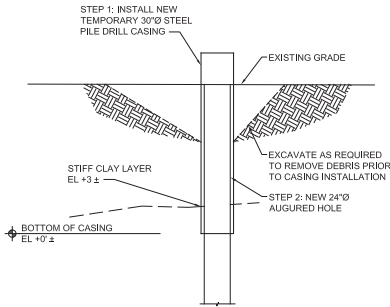
A
C6 CROSS SECTION SCALE: NTS



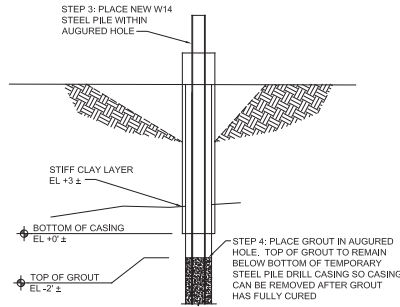
B
D6 CROSS SECTION SCALE: NTS



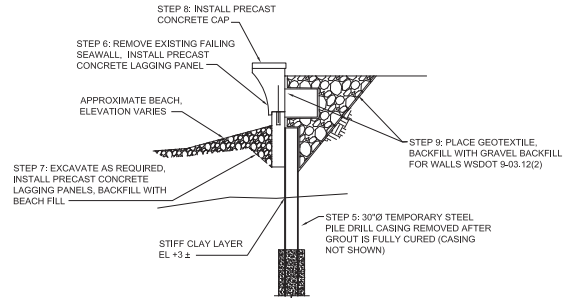
C
D6 CROSS SECTION SCALE: NTS



D
C6 CROSS SECTION SCALE: NTS



E
D6 CROSS SECTION SCALE: NTS



F
D6 CROSS SECTION SCALE: NTS

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NO.	REVISION - AS BUILT	DATE
3		
2		
1		

REVISION: **PARK ENGINEER** **DATE**

All work shall be in accordance with the City of Seattle Standard Plans and Specifications in effect on the date shown above, and supplemented by Special Provisions.

ESA 5109 SHILSHOLE AVE, NW, STE. 200, SEATTLE, WA 98107
OFFICE: 206.769.9058
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LOWMAN BEACH PARK
LOWMAN BEACH PARK
SHORELINE RESTORATION

WALL CONSTRUCTION SEQUENCE

DESIGNED JSP	DATE 04/26/2019
DRAWN DSD	SHEET 14 OF 23
CHECKED	
ORDINANCE NO. X	C6
SPECIFICATION NO. X	
SCALE AS NOTED	

>>>>CAUTION - CALL 811<<<<
 UTILITY NOTIFICATION CENTER
 BEFORE YOU DIG!

www.call811.com
 Also, verify all underground utilities not located by the 811 service by using a commercial locator service and call SPR Inspection Request Line (206) 684-7034.

NOTES:

1. VERTICAL DATUM = NAVD83

ABBREVIATIONS:

CSO COMBINED SEWER OUTFALL
 EL ELEVATION
 (E) EXISTING
 MHHW MEAN HIGHER HIGH WATER
 TYP TYPICAL

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 Everett, Washington 98204
 PH 425-741-8800
 www.reidmiddleton.com

3		
2		
1		
NO.	REVISION - AS BUILT	DATE

REVISION: **PARK ENGINEER** DATE
 All work shall be in accordance with the City of Seattle Standard Plans and Specifications to effect on the date shown above, and supplemented by Special Provisions.

ESA 5309 SHILSHOLE AVE. NW, STE. 200
 SEATTLE, WA 98107
 OFFICE: 206.769.9058
 WWW.ESACORP.COM

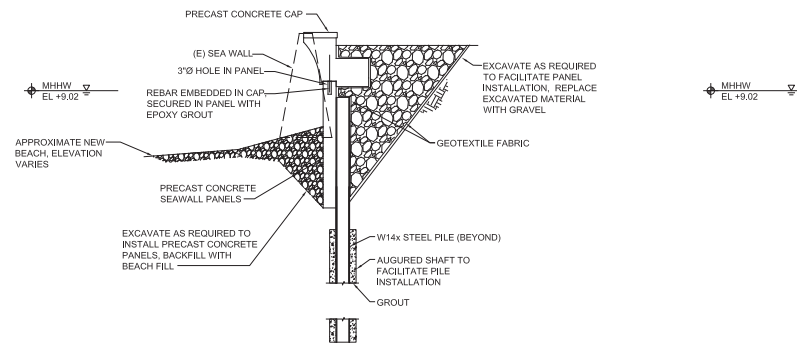


Seattle Parks & Recreation

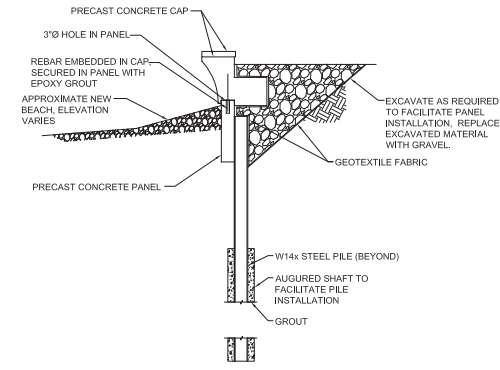
LOWMAN BEACH PARK
 LOWMAN BEACH PARK
 SHORELINE RESTORATION

WALL SECTIONS AND DETAILS

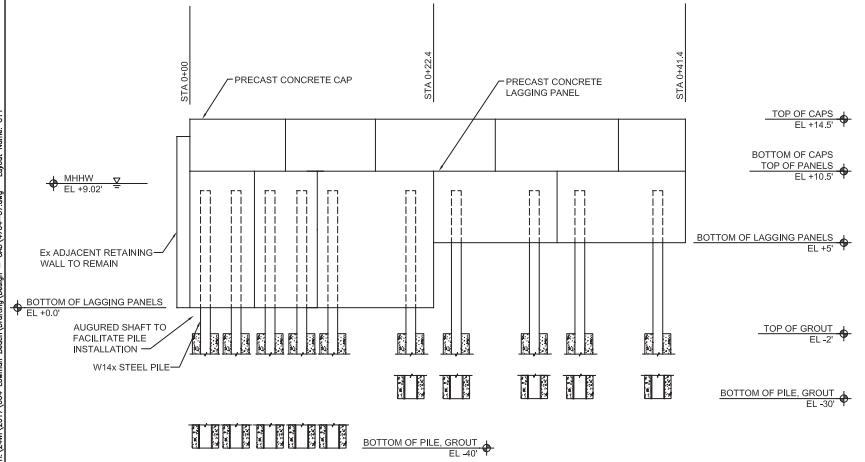
DESIGNED JSP	DATE 04/26/2019
DRAWN EDO	
CHECKED CHR	SHEET 15 OF 23
ORDINANCE NO. X	C7
SPECIFICATION NO. X	
SCALE AS NOTED	



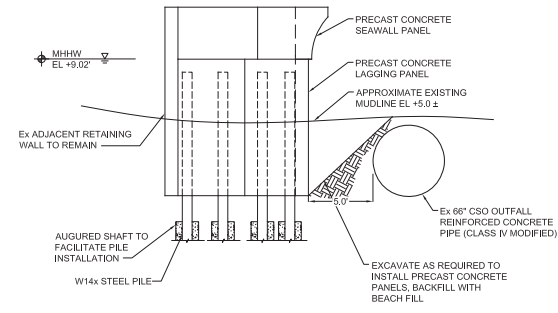
(A) SECTION - TYP SOLDIER PILE WALL
 CROSS SECTION SCALE: 1/4" = 1'-0"



(B) SECTION - TYP SOLDIER PILE WALL
 CROSS SECTION SCALE: 1/4" = 1'-0"

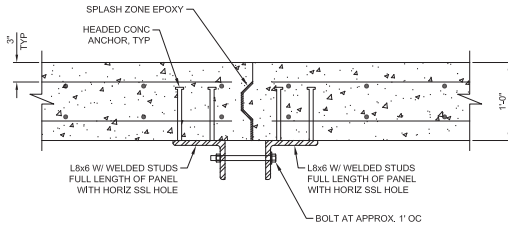


(C) PROFILE - WALL
 ELEVATION VIEW SCALE: 1/4" = 1'-0"

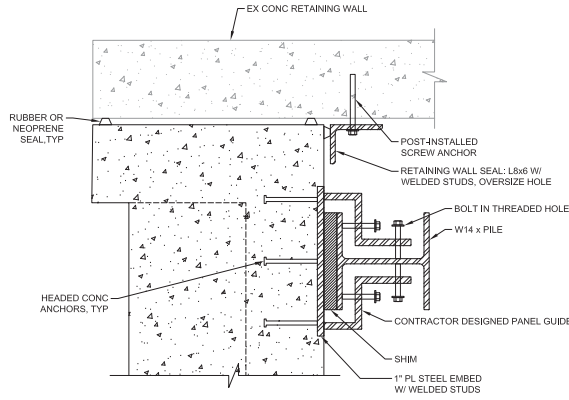


(D) SECTION - NEW WALL AT CSO OUTFALL
 ELEVATION VIEW SCALE: 1/4" = 1'-0"

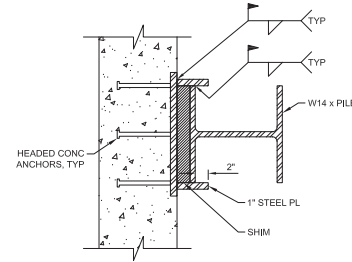
Apr 26, 2019 - 1:52pm daban: H:\2019\2017\204 Lowman Beach Shoreline Restoration - CDD\4704-C7.dwg Layout Name: C11



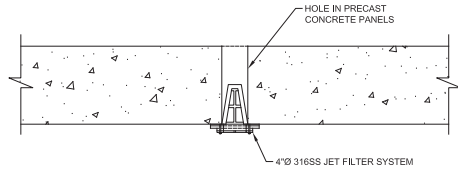
1 PANEL CONNECTION
SCALE: 1 1/2" = 1'-0"



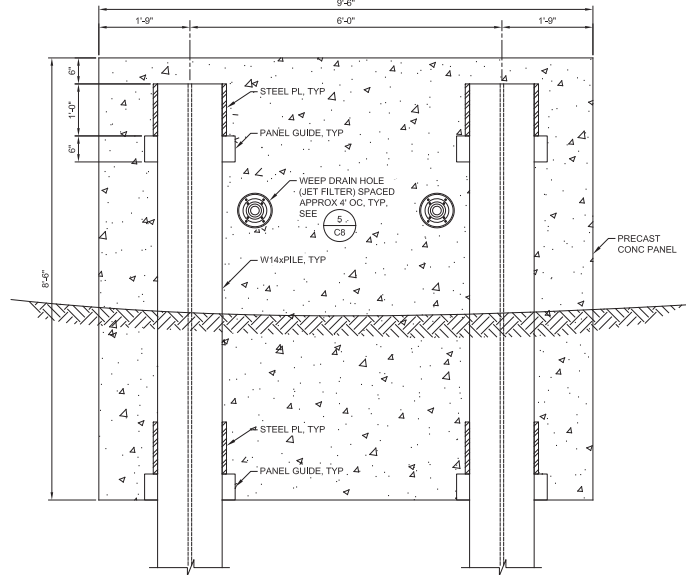
2 PANEL LEVELING, RETAINING WALL SEAL
SCALE: 1 1/2" = 1'-0"



3 PILE ATTACHMENT TO PANEL
SCALE: 1 1/2" = 1'-0"



4 WEEP HOLE
SCALE: 1 1/2" = 1'-0"



5 SEAWALL/RETAINING PANEL
ELEVATION SCALE: NTS

>>>>CAUTION - CALL 811<<<<
UTILITY NOTIFICATION CENTER
BEFORE YOU DIG!

WWW.CALL811.COM
Also, verify all underground utilities not located by the 811 service by using a commercial locator service and call SPR Inspection Request Line (206) 684-7034.

NOTES:

1. VERTICAL DATUM NAVD83

ABBREVIATIONS:

APPROX.	APPROXIMATELY
ELEVATION	EL.
EX	EXISTING
L&L	LONG SLOTTED
OC	ON CENTER
PL	PLATE
SSL	SHORT SLOTTED
TYP	TYPICAL

LEGEND:

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Everett, Washington 98204
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www.reidmiddleton.com

3		
2		
1		
NO.	REVISION - AS BUILT	DATE

REVISION: **PARK ENGINEER** DATE
All work shall be in accordance with the City of Seattle Standard Plans and Specifications to effect on the date shown above, and Supplemental by Special Provisions.

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STE. 200
SEATTLE, WA 98107
OFFICE: 206.769.9058
WWW.ESASDC.COM

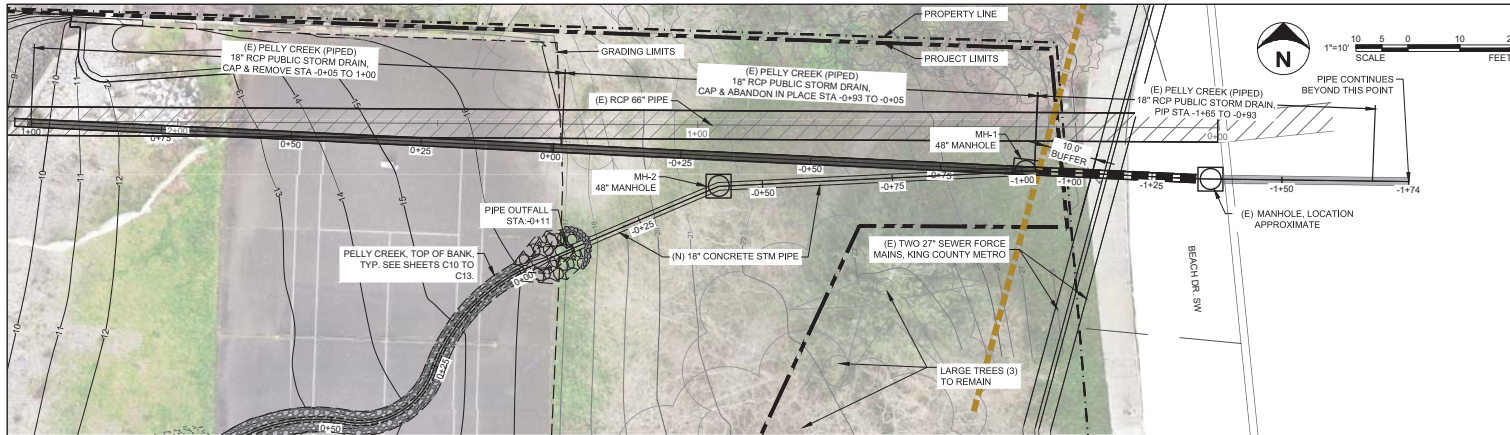


Seattle Parks & Recreation

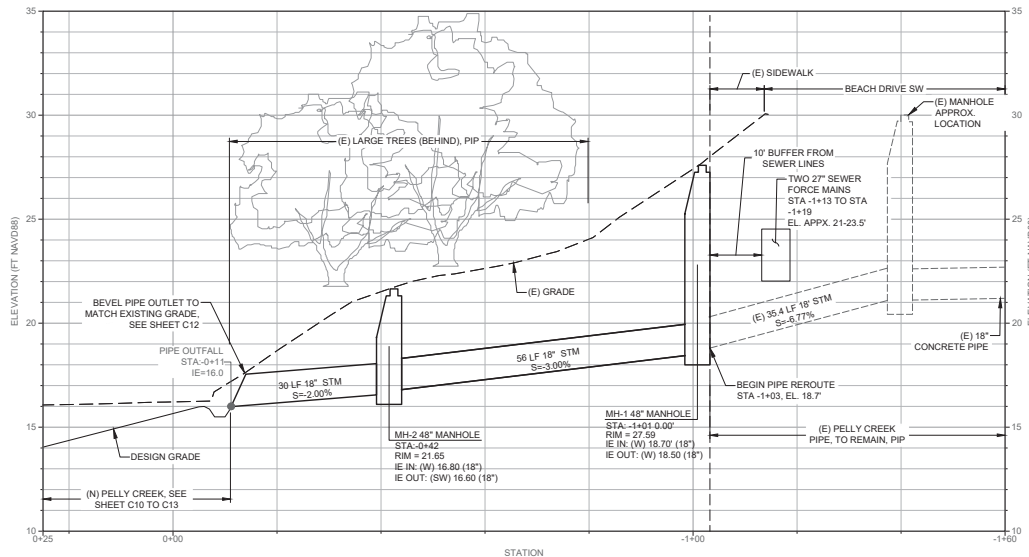
LOWMAN BEACH PARK
LOWMAN BEACH PARK
SHORELINE RESTORATION

WALL SECTIONS AND DETAILS

DESIGNED JSP	DATE 04/26/2019
DRAWN DDD	
CHECKED CBR	SHEET 16 OF 23
ORDINANCE NO. X	C8
SPECIFICATION NO. X	
SCALE AS NOTED	



A PELLY CREEK PIPE RELOCATION
PLAN SCALE: 1" = 10'



B PELLY CREEK PIPE RELOCATION
PROFILE HORIZ: 1" = 10'
VERTICAL: 1" = 2.5'

>>>>CAUTION - CALL 811<<<<
UTILITY NOTIFICATION CENTER
BEFORE YOU DIG!
WWW.CALL811.COM

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NOTES:

ABBREVIATIONS:
PIP PROTECT IN PLACE
(E) EXISTING
FT FEET
RCP REINFORCED CONCRETE
PIPE PIPE
STM STORM
DIA DIAMETER

LEGEND:
--- PROPERTY LINE
--- PROJECT LIMITS
--- (E) CONTOUR, MAJOR
--- (E) CONTOUR, MINOR
--- (N) CONTOUR, MAJOR
--- (N) CONTOUR, MINOR
--- GRADING LIMITS
--- 6\"/>

NO.	REVISION - AS BUILT	DATE
3		
2		
1		

REVISION:
PARK ENGINEER DATE
All work shall be coordinated with the City of Seattle Streetlight Permit and Specifications to 100000, the 100000 Series, and Supplemental by Special Provisions.

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LOWMAN BEACH PARK
LOWMAN BEACH PARK
SHORELINE RESTORATION

PELLY CREEK PIPE RELOCATION

DESIGNED: ESB	DATE: 04/29/2019
DRAWN: JDF	
CHECKED: WERRAP	SHEET 17 OF 25
ORDINANCE NO. X	C9
SPECIFICATION NO. X	
SCALE: AS NOTED	

PLOT DATE: 7/26/2019 2:20:01 PM PLOTTED BY: PABLO QUIBROGA FILE NAME: W:\6407\PROJECTS\EA\160202\00\Lowman Beach Park\6407\02\PELLY CREEK PIPE RELOCATION.dwg

>>>>CAUTION - CALL 811<<<<
 UTILITY NOTIFICATION CENTER
 BEFORE YOU DIG!
 WWW.CALL811.COM
 Also, verify all underground utilities not located by the
 811 service by using a commercial location service and
 call SPR Inspection Request Line (206) 684-7034.

ABBREVIATIONS:

PIP	PROTECT IN PLACE
(E)	EXISTING
(N)	NEW
FT	FEET
APPX	APPROXIMATE
TYP	TYPICAL
RCP	REINFORCED CONCRETE PIPE
STA	STATION
PSD	PUBLIC STORM DRAIN

LEGEND:

	PROPERTY LINE
	PROJECT LIMITS
	(E) CONTOUR, MAJOR
	(E) CONTOUR, MINOR
	(N) CONTOUR, MAJOR
	(N) CONTOUR, MINOR
	66" OUTFALL
	STREAMBED COBBLE
	ROCK FOR EROSION CONTROL AND SCOUR PROTECTION CLASS A

3		
2		
1		
NO.	REVISION - AS BUILT	DATE

REVISIONS:

	PARK ENGINEER	DATE
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All work shall be in accordance with the City of Seattle Standard Plans and Specifications to effect on the date shown, and Supplemental to Specific Provisions.

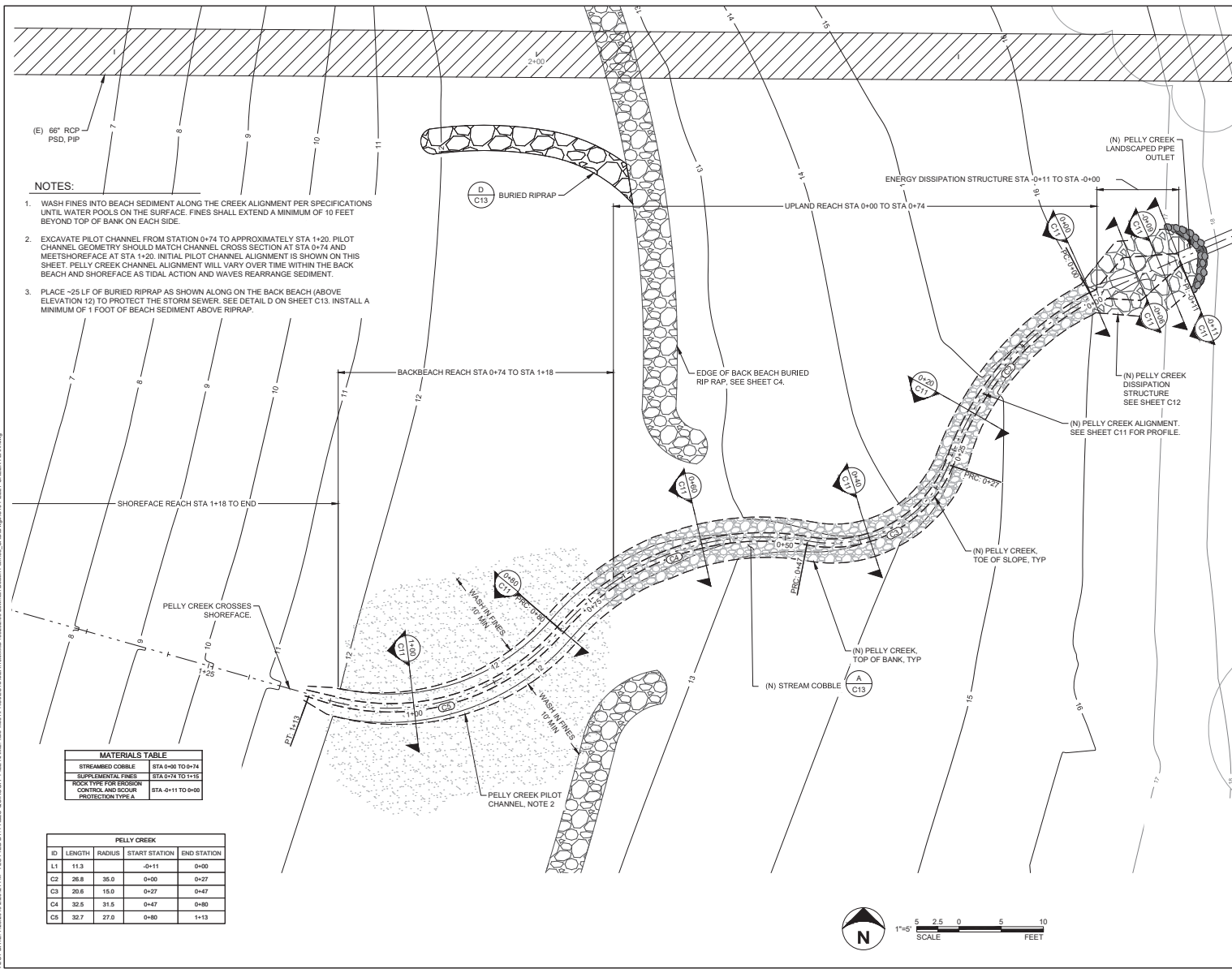
ESA 5309 SHILOH AVE. NW, STE. 200 SEATTLE, WA 98107 OFFICE: 206.789.9058 WWW.ESASBC.COM



LOWMAN BEACH PARK
 SHOWN BEACH PARK
 LOWMAN BEACH PARK
 SHORELINE RESTORATION

PELLY CREEK PLAN

DESIGNED: ESB	DATE: 04/29/2019
DRAWN: JDF	
CHECKED: WFP	SHEET 18 OF 25
ORDINANCE NO. X	C10
SPECIFICATION NO. X	
SCALE: AS NOTED	



(E) 66" RCP
 PSD, PIP

NOTES:

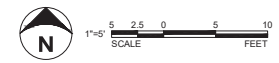
1. WASH FINES INTO BEACH SEDIMENT ALONG THE CREEK ALIGNMENT PER SPECIFICATIONS UNTIL WATER POOLS ON THE SURFACE. FINES SHALL EXTEND A MINIMUM OF 10 FEET BEYOND TOP OF BANK ON EACH SIDE.
2. EXCAVATE PILOT CHANNEL FROM STATION 0+74 TO APPROXIMATELY STA 1+20. PILOT CHANNEL GEOMETRY SHOULD MATCH CHANNEL CROSS SECTION AT STA 0+74 AND MEET SHOREFACE AT STA 1+20. INITIAL PILOT CHANNEL ALIGNMENT IS SHOWN ON THIS SHEET. PELLY CREEK CHANNEL ALIGNMENT WILL VARY OVER TIME WITHIN THE BACK BEACH AND SHOREFACE AS TIDAL ACTION AND WAVES REARRANGE SEDIMENT.
3. PLACE ~25 LF OF BURIED RIPRAP AS SHOWN ALONG ON THE BACK BEACH (ABOVE ELEVATION 12) TO PROTECT THE STORM SEWER. SEE DETAIL D ON SHEET C13. INSTALL A MINIMUM OF 1 FOOT OF BEACH SEDIMENT ABOVE RIPRAP.

MATERIALS TABLE

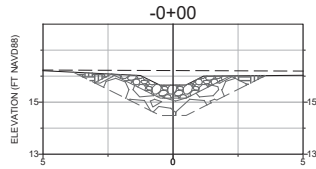
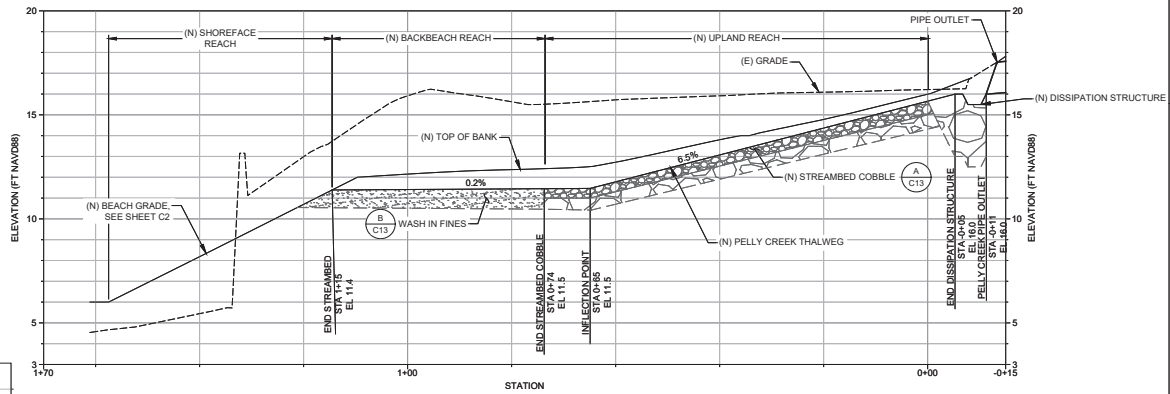
STREAMBED COBBLE	STA 0+00 TO 0+74
SUPPLEMENTAL FINES	STA 0+74 TO 1+13
ROCK TYPE FOR EROSION CONTROL AND SCOUR PROTECTION TYPE A	STA 0+11 TO 0+00

PELLY CREEK

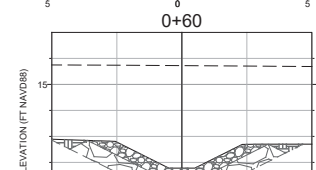
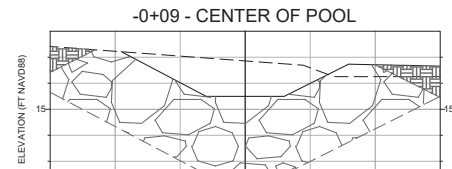
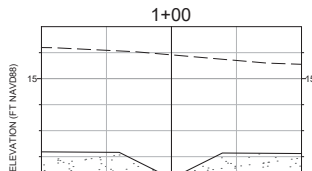
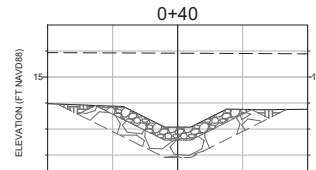
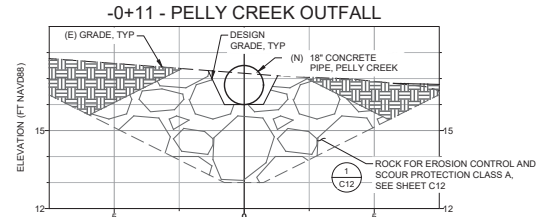
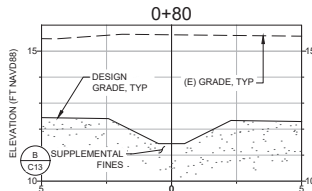
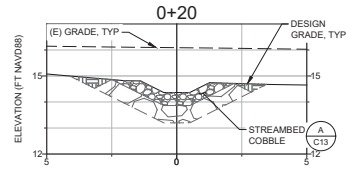
ID	LENGTH	RADIUS	START STATION	END STATION
L1	11.3		0+11	0+00
C2	26.8	35.0	0+00	0+27
C3	20.6	15.0	0+27	0+47
C4	32.5	31.5	0+47	0+80
C5	32.7	27.0	0+80	1+13



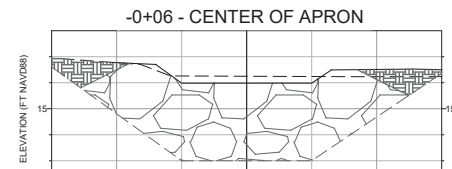
PLOT DATE: 7/20/2019 2:20:23 PM PLOTTED BY: PAUL O. QUARCOLO FILE NAME: I:\6490\PROJECTS\ESA\18020200_Lowman Beach Park\6490_CADD\mp\C10_PELLY_CREEK_PLAN.dwg



PELLY CREEK DAYLIGHTING
PROFILE
HORIZ.: 1" = 10'
VERT.: 1" = 5'



PELLY CREEK - BACKSHORE REACH
SECTIONS
SCALE: 1" = 2'



PELLY CREEK - UPLAND REACH
SECTIONS
SCALE: 1" = 2'

PELLY CREEK - DISSIPATION STRUCTURE
SECTIONS
SCALE: 1" = 2'

>>>>CAUTION - CALL 811<<<<
UTILITY NOTIFICATION CENTER
BEFORE YOU DIG!
WWW.CALL811.COM
Also, verify all underground utilities not located by the 811 service by using a commercial location service and call SPR Inspection Request Line (206) 684-7034.

- NOTES:
1. SECTIONS FACE DOWNSTREAM.
 2. SEE TYPICAL BACK BEACH AND UPLAND SECTIONS ON SHEET C13.

ABBREVIATIONS:

(E)	EXISTING
(N)	NEW
FT	FEET
TYP	TYPICAL
STA	STATION

LEGEND:

	LIMITS OF EXCAVATION
	DESIGN GRADE
	EXISTING GRADE
	STREAMBED COBBLE
	NATIVE FILL
	ROCK FOR EROSION CONTROL AND SCOUR PROTECTION CLASS A
	SUPPLEMENTAL FINES

NO.	REVISION - AS BUILT	DATE
3		
2		
1		

REVISION: **PARK ENGINEER** DATE
All work shall be in accordance with the City of Seattle Standard Plans and Specifications to either the 1995 street plans, and Supplemental to Special Provisions.

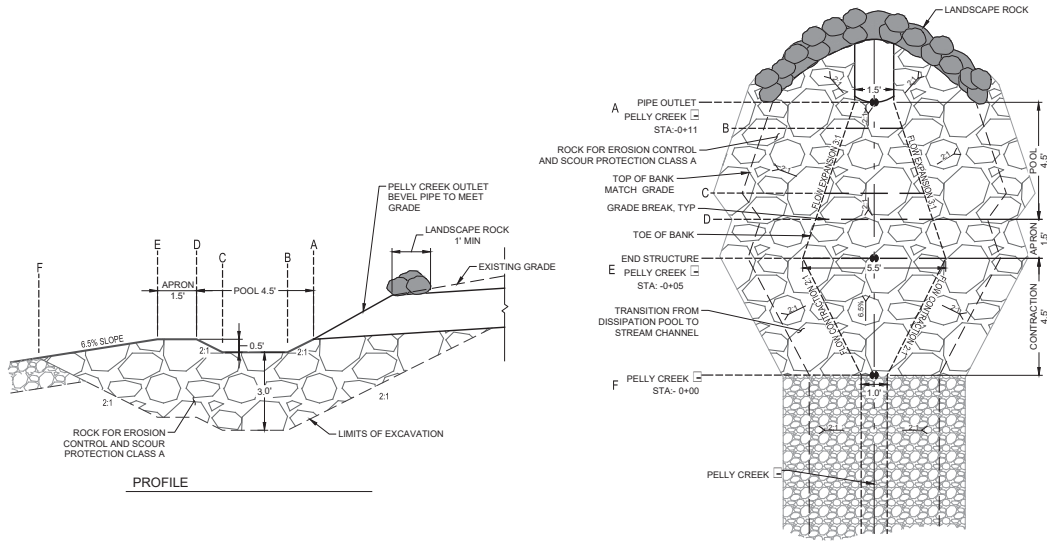


LOWMAN BEACH PARK
LOWMAN BEACH PARK
SHORELINE RESTORATION

PELLY CREEK PROFILE & SECTIONS

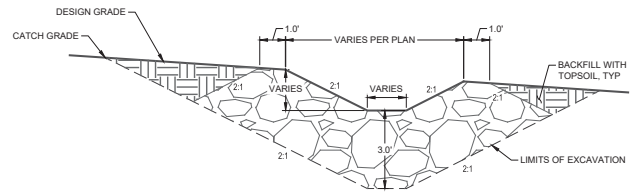
DESIGNED: ESB	DATE: 04/29/2019
DRAWN: JDF	SHEET: 19 OF 25
CHECKED: WFP	
ORDINANCE NO. X	C11
SPECIFICATION NO. X	
SCALE: AS NOTED	

PLOT DATE: 7/26/2019 2:21:03 PM PLOTTED BY: PABLO OLIVEROLA FILE NAME: \\s01\607\PROJECTS\EA\160202\00\Lowman Beach Park\02 Pelly Dissipation Structure.dwg



PROFILE

PLAN



TYPICAL SECTION

1 DISSIPATION STRUCTURE SCALE: 1" = 2'

>>>>CAUTION - CALL 811<<<<
 UTILITY NOTIFICATION CENTER
 BEFORE YOU DIG!

WWW.CALL811.COM
 Also, verify all underground utilities not located by the 811 service by using a commercial location service and call SPR Inspection Request Line (206) 684-7034.

NOTES:

ABBREVIATIONS:
 (E) EXISTING
 (N) NEW
 FT FEET
 MIN MINIMUM
 TYP TYPICAL
 STA STATION

LEGEND:
 - - - - - LIMITS OF EXCAVATION
 - - - - - DESIGN GRADE
 - - - - - EXISTING GRADE
 - - - - - GRADE BREAK
 - - - - - TOE OF SLOPE
 - - - - - TOP OF BANK

3		
2		
1		
NO.	REVISION - AS BUILT	DATE

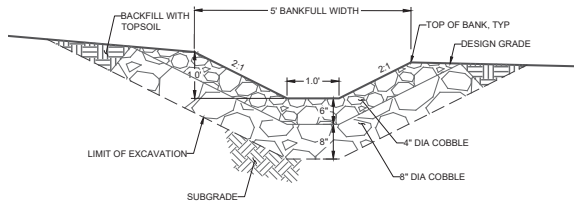
REVIEWED: **PARK ENGINEER** DATE
 All work shall be coordinated with the City of Seattle Shoreline Planning and Specifications to either the 1996 Street, Shore, and Supplemental to Special Provisions.



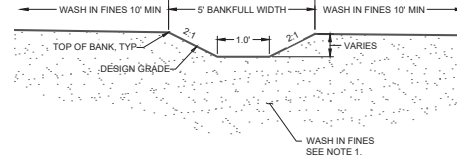
LOWMAN BEACH PARK
 SHORELINE RESTORATION
 PELLEY CREEK DISSIPATION STRUCTURE

DESIGNED: ES	DATE: 04/29/2019
DRAWN: JDF	
CHECKED: MF	SHEET 20 OF 25
ORDINANCE NO. X	C12
SPECIFICATION NO. X	
SCALE: AS NOTED	

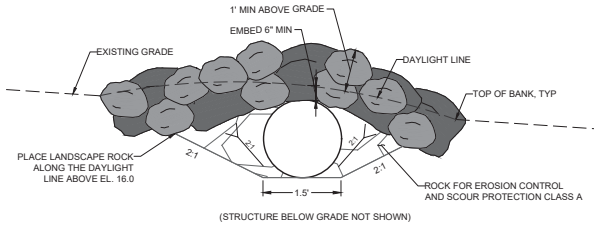
PLOT DATE: 12/20/19 2:21:18 PM PLOTTED BY: PABLO OLIVEROLA FILE NAME: \\s01\proj\PROJECTS\A\Resto\A2\10020200\Lowman Beach Park\CAD\exp\C13 Pelly Creek Details.dwg



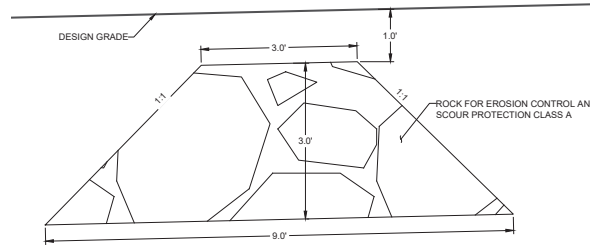
A PELLY CREEK TYPICAL SECTION - UPLAND REACH
 C10 DETAIL SCALE: 1"=1'



B PELLY CREEK TYPICAL SECTION - BACKSHORE REACH
 C10 DETAIL SCALE: 1"=1'



C LANDSCAPED PIPE OUTLET - FRONT VIEW
 C10 DETAIL NTS



D BURIED RIPRAP SECTION
 C10 DETAIL SCALE: 1"=1'

>>>>CAUTION - CALL 811<<<<
 UTILITY NOTIFICATION CENTER
 BEFORE YOU DIG!

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 Also, verify all underground utilities not located by the
 811 service by using a commercial location service and
 call SPR Inspection Request Line (206) 684-7034.

NOTES:

1. WASH FINES INTO BEACH SEDIMENT UNTIL WATER POOLS ON THE SURFACE.

ABBREVIATIONS:

(A)	EXISTING
(N)	NEW
DIA	DIAMETER
EL	ELEVATION
FT	FEET
MIN	MINIMUM
TYP	TYPICAL
STA	STATION

LEGEND:

---	LIMITS OF EXCAVATION
---	DESIGN GRADE
---	EXISTING GRADE

3		
2		
1		
NO.	REVISION - AS BUILT	DATE

REVISION: **PARK ENGINEER** **DATE**
 All work shall be done in accordance with the City of Seattle Standard Plans and Specifications to RCW 89A.100.040 unless otherwise shown, and supplemented by Special Provisions.



LOWMAN BEACH PARK

LOWMAN BEACH PARK
 SHORELINE RESTORATION

PELLY CREEK DETAILS

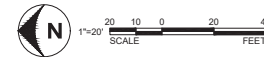
DESIGNED	ESB	DATE	04/29/2019
DRAWN	DF		
CHECKED	MP	SHEET	21 OF 25
ORDINANCE NO.	X		
SPECIFICATION NO.	X		
SCALE	AS NOTED		

C13

PLT DATE: 1/20/2019 2:21:48 PM PLOTTED BY: PABLO QUIMBOGA FILE NAME: \\s01\proj\PROJECTS\EA\18002020\Lowman Beach Park\ESC_CADD\egp\ESC1_TESC PLAN.dwg



EROSION CONTROL PLAN SCALE: 1"=20'



>>>>CAUTION - CALL 811<<<<
 UTILITY NOTIFICATION CENTER
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 Also, verify all underground utilities not located by the 811 service by using a commercial location service and call SPR Inspection Request Line (206) 684-7034.

LEGEND:

	PROPERTY LINE
	PROJECT LIMITS
	(E) CONTOUR, MAJOR
	(E) CONTOUR, MINOR
	(N) CONTOUR, MAJOR
	(N) CONTOUR, MINOR
	GRADING LIMITS
	ACCESS ROUTE
	COMPOST SOCK
	FILTER FENCE
	TREE AND VEGETATION PROTECTION
	STABILIZED CONSTRUCTION ENTRANCE

3		
2		
1		
NO.	REVISION - AS BUILT	DATE

REVIEWED: **PARK ENGINEER** DATE _____
 All work shall be coordinated with the City of Seattle Department of Public Works and Specifications to either the 1994 Street, Signs, and Supplemental by Special Provisions.

ESA 5309 SHILOH AVE. NW
 STE. 200
 SEATTLE, WA 98107
 OFFICE: 206.789.9058
 WWW.ESASOCC.COM



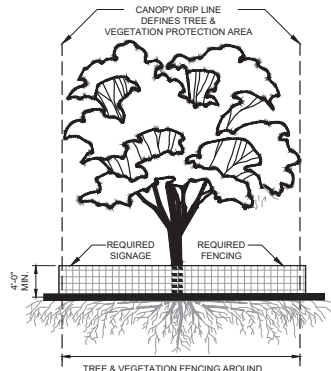
LOWMAN BEACH PARK
 LOWMAN BEACH PARK
 SHORELINE RESTORATION

TESC PLAN

DESIGNED: P30	DATE: 04/29/2019
DRAWN: JMS	
CHECKED: STB	SHEET 22 OF 25
ORDINANCE NO. X	ESC1
SPECIFICATION NO. X	
SCALE: AS NOTED	

TREE PROTECTION FENCING AND SIGN

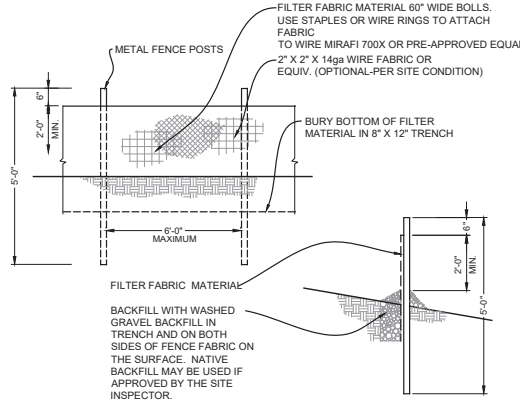
- CHAIN LINK, WIRE MESH, OR SIMILAR OPEN RIGID MATERIAL (NO PLYWOOD)
- MUST BE INSTALLED PRIOR TO DEMOLITION OR GROUND DISTURBANCE
- KEPT IN PLACE FOR THE DURATION OF CONSTRUCTION
- NO SOIL DISTURBANCE OR ACTIVITY ALLOWED WITHIN FENCED AREA: MATERIAL STORAGE/STOCKPILES, PARKING, EXCAVATION, DUMPING, OR WASHING
- MODIFICATIONS OF THESE REQUIREMENTS BY APPROVAL OF SDCI PLANNER ONLY
- IF ROOTS GREATER THAN 2 INCH FOUND OUTSIDE OF FENCING, PROTECT BY HAND EXCAVATION AND, IF NECESSARY, CUT CLEANLY AND KEEP MOST
- USE 3 INCHES OR DEEPER WOOD CHIP MULCH OUTSIDE FENCED AREAS TO PROTECT FEEDER ROOTS



VEGETATION PROTECTION

- ORANGE MESH OR SIMILAR OPEN MATERIAL
- MINIMIZE CONSTRUCTION ZONE
- PROTECT VEGETATION OUTSIDE CONSTRUCTION ZONE WITH FENCING AS SHOWN
- USE 3 INCHES OR DEEPER WOOD CHIP MULCH OUTSIDE FENCED AREAS TO PROTECT FEEDER ROOTS

1 TREE AND VEGETATION PROTECTION
ESCI/ DETAIL NTS



2 FILTER FENCE
ESCI/ DETAIL NTS

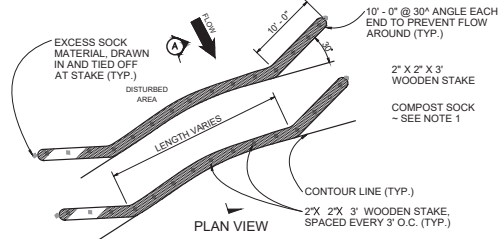
NOTES:

- GENERAL**
- THIS PLANS ARE FOR GENERAL GUIDANCE ONLY. IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DOES NOT LEAVE THE SITE. THE CONTRACTOR SHALL USE ALL AVAILABLE MEANS TO ACHIEVE THIS RESULT.
 - CONTRACTOR SHALL SUBMIT A CONSTRUCTION STORMWATER GENERAL PERMIT (CSWGP) TO THE DEPARTMENT OF ECOLOGY FOR APPROVAL PRIOR TO CONSTRUCTION.
 - THE IMPLEMENTATION OF THE ESC PLAN AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING OF THE ESC PLAN FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND VEGETATION LANDSCAPING IS ESTABLISHED.
- BEFORE CONSTRUCTION:**
- THE ESC PLAN FACILITIES SHOWN ON ESC1 AND THIS SHEET MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNERS AS TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT ENTER THE PUGET SOUND, DRAINAGE SYSTEM, ROADWAYS OR VIOLATE APPLICABLE WATER STANDARDS.
 - STABILIZED CONSTRUCTION ENTRANCE SHALL BE INSTALLED (WHERE NECESSARY) AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES SUCH AS WHEEL WASHES OR HAND BRUSHING, MAY ALSO BE NECESSARY TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
- DURING CONSTRUCTION:**
- THE ESC PLAN FACILITIES SHOWN ON THIS SHEET ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS DURING THE CONSTRUCTION PERIOD. THESE ESC PLAN FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT LEAVE THE SITE.
 - THE ESC PLAN FACILITIES SHALL BE INSPECTED BY THE CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTION.
 - ANY STOCKPILED SOIL MUST BE SECURED AND PROTECTED THROUGHOUT THE PROJECT WITH SOIL STABILIZATION MEASURES INCLUDING SEDIMENT BARRIERS AND PLASTIC SHEETING.
- AFTER CONSTRUCTION:**
- CONTRACTOR SHALL REMOVE ALL ESC PLAN FACILITIES AFTER SITE IS STABILIZED AND UPON APPROVAL OF THE PROJECT ENGINEER.

>>>>CAUTION - CALL 811<<<<
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BEFORE YOU DIG!
WWW.CALL811.COM

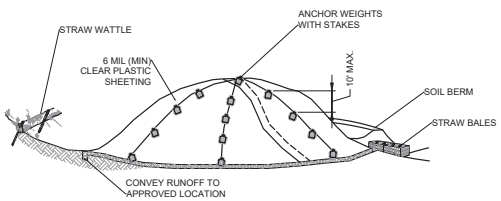
Also, verify all underground utilities not located by the 811 service by using a commercial location service and call SPR Inspector Request Line (206) 684-7034.

PLOT DATE: 1/20/2019 2:21:58 PM PLOTTED BY: PABLO G. DURAZO, FILE NAME: \\s01\proj\PROJECTS\ES\18002020\Lowman Beach Park\ESCI_CAZD.rvt\ESCI_1.DWG

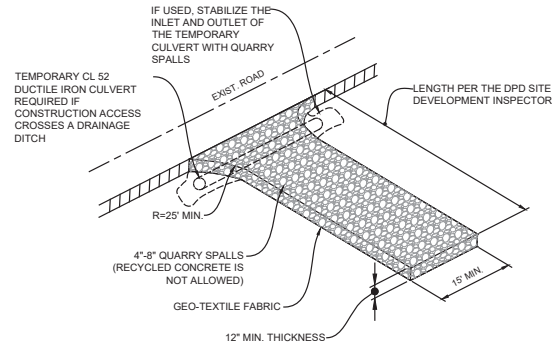
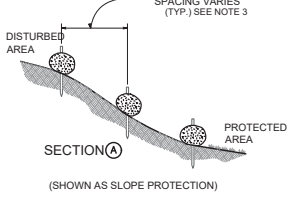


- COMPOST SOCK SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATION 9.14.4(9), COMPOST SOCK SHALL BE A MINIMUM OF 10" IN DIAMETER OR SIZED TO SUIT CONDITIONS AS SPECIFIED BY THE ENGINEER.
- ALWAYS INSTALL COMPOST SOCK PERPENDICULAR TO SLOPE AND ALONG CONTOUR LINES.
- REMOVE SEDIMENT FROM THE UP SLOPE SIDE OF THE COMPOST SOCK WHEN ACCUMULATION HAS REACHED 1/2 OF THE EFFECTIVE HEIGHT OF THE COMPOST SOCK.
- MAY BE USED IN PLACE OF FILTER FENCE FOR PREMIER CONTROL.

3 COMPOST SOCK
ESCI/ DETAIL NTS



4 STOCKPILE COVERING
ESCI/ DETAIL NTS



5 CONSTRUCTION ENTRANCE
ESCI/ DETAIL NTS

NO.	REVISION - AS BUILT	DATE
3		
2		
1		

REVISION: **PARK ENGINEER** **DATE**
All work shall be done in accordance with the City of Seattle Standard Plans and Specifications, or other applicable codes, standards, and Supplemental by Special Provisions.

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OFFICE: 206.789.9058
WWW.ESASDC.COM

60% NOTED
SEATTLE ENVIRONMENTAL PARTNERSHIP
CONSTRUCTION DIVISION

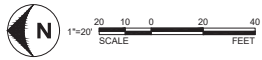
Seattle Parks & Recreation

LOWMAN BEACH PARK

LOWMAN BEACH PARK
SHORELINE RESTORATION

DETAILS

DESIGNED: PGO	DATE: 04/29/2019
DRAWN: DMS	
CHECKED: STE	SHEET: 23 OF 25
ORDINANCE NO. X	ESC2
SPECIFICATION NO. X	
SCALE: AS NOTED	



>>>>CAUTION - CALL 811<<<<
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 811 service by using a commercial location service and
 call SPR Inspection Request Line (206) 684-7034.

LEGEND:

- PROPERTY LINE
- (E) CONTOUR, MAJOR
- (E) CONTOUR, MINOR
- (N) CONTOUR, MAJOR
- (N) CONTOUR, MINOR
- (E) GRAVEL TRAIL
- (N) GRAVEL TRAIL
- COMPACTED MINERAL SOIL TRAIL
- BEACH VEGETATION
- LAWN
- MULCH BAND
- PACIFIC MADRONE ARBUTUS MENZIESII
- SHORE PINE PINUS CONTORTA V. CONTORTA

- PLANTING NOTES:**
- SEE SHEET L2 FOR PLANTING SCHEDULE AND DETAILS.
 - ALL PLANTS SELECTED SHALL BE CONSISTENT WITH CURRENT AMERICAN NURSERYMEN'S STANDARDS. ANY PLANTS THAT ARE DISEASED, DEFORMED, ROOT BOUND, POORLY SHAPED OR DEFICIENT OF HEALTHY CHARACTERISTICS SHALL NOT BE ACCEPTED.
 - FURNISH ALL PLANTING MATERIALS. PROVIDE THE OWNER'S REPRESENTATIVE A MINIMUM OF 15 DAYS ADVANCE NOTICE WHEN REQUESTING PLANT MATERIAL DELIVERY TO THE PROJECT SITE.
 - THE CONTRACTOR IS RESPONSIBLE FOR HANDLING AND STORAGE OF ALL PLANT MATERIALS THROUGHOUT THE CONTRACT PERIOD.
 - PROVIDE AN ONSITE STORAGE SITE FOR THE PLANT MATERIALS AT THE STAGING AREAS SHOWN ON SHEET G6, OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
 - OUTSIDE STORAGE SHALL BE SHADED AND PROTECTED FROM WIND WITH A COVERING THAT ALLOWS AIR CIRCULATION AND MINIMIZES HEAT ENTRAPMENT.
 - MAINTAIN PLANT MATERIALS IN OPTIMAL HEALTH AND PROTECT AT ALL TIMES FROM ANIMALS, VANDALISM, SUNBURN, DROUGHT, WIND, FROST, TOXIC IRRIGATION WATER, OR ANY OTHER CONDITIONS THAT WOULD DAMAGE OR REDUCE THE VIABILITY OF THE PLANT MATERIALS.
 - MAINTAIN MOISTURE OF PLANT MATERIALS AT ALL TIMES BEFORE PLANTING.
 - ALL PLANT MATERIAL SHALL BE WARRANTED FOR A PERIOD OF ONE YEAR AND SHALL BE IN A HEALTHY CONDITION AT THAT TIME. ALL PLANTS DEAD OR EXHIBITING UNHEALTHY CHARACTERISTICS SHALL NOT BE ACCEPTED.
 - TOPSOIL SHALL BE FREE OF NOXIOUS WEEDS AND WEED SEEDS. CONTRACTOR SHALL GUARANTEE THAT WEEDS HAVE BEEN REMOVED PRIOR TO INSTALLATION.
 - REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

NO.	REVISION - AS BUILT	DATE
3		
2		
1		

REVISIONS:

NO.	REVISION	DATE
1	PARK ENGINEER	

All work shall conform with the City of Seattle Standard Plans and Specifications in effect on the date shown, and supplemented by Special Provisions.

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 STE. 200
 SEATTLE, WA 98107
 OFFICE: 206.789.9058
 WWW.ESASDC.COM



LOWMAN BEACH PARK
 LOWMAN BEACH PARK
 SHORELINE RESTORATION

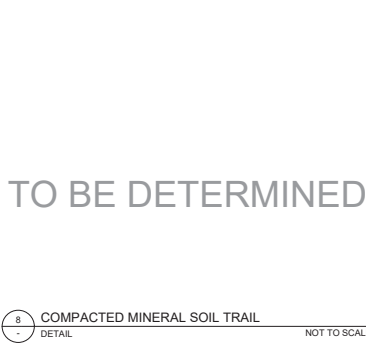
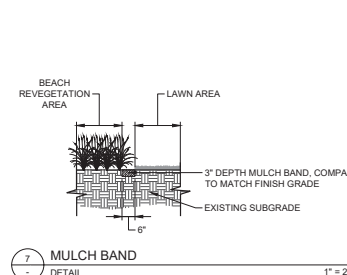
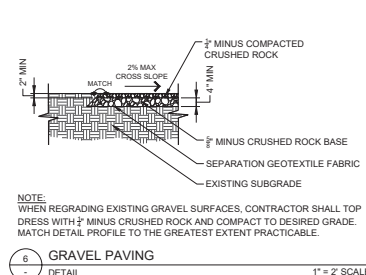
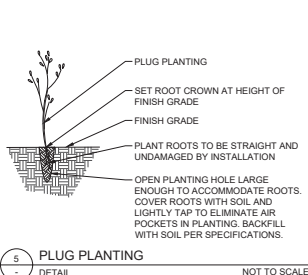
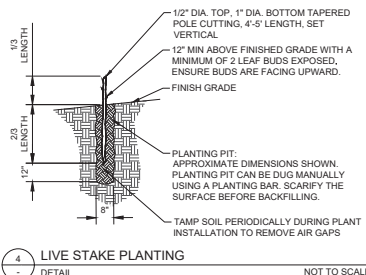
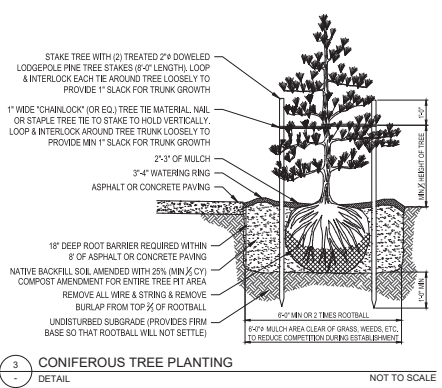
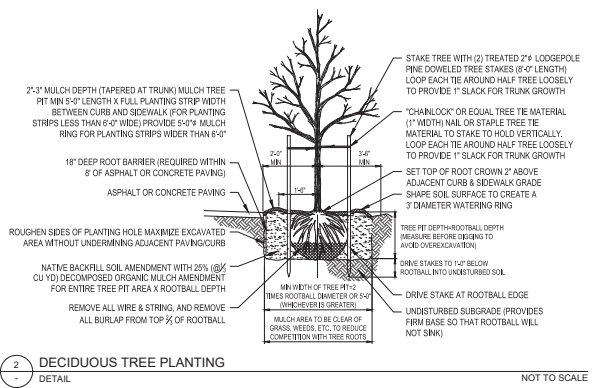
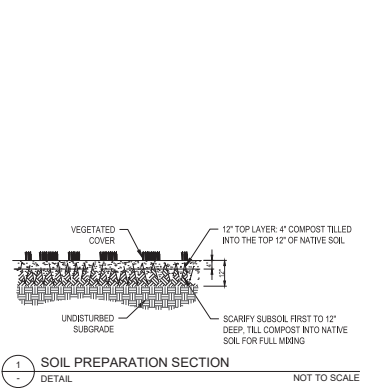
LANDSCAPE PLAN

DESIGNED: ASD	DATE: 04/29/2019
DRAWN: ESO	
CHECKED: MFR	SHEET 24 OF 25
ORDINANCE NO. X	L1
SPECIFICATION NO. X	
SCALE: AS NOTED	



PLOT DATE: 12/20/19 2:22:38 PM PLOTTED BY: PAOLO QUAROGA FILE NAME: I:\60427\PROJECTS\60427\60427-00 LOWMAN BEACH PARK\60427-00 LANDSCAPE PL AN.dwg

>>>>CAUTION - CALL 811<<<<
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 811 service by using a commercial location service and
 call SPR Inspector Request Line (206) 684-7034.



PLANTING MIX A - BEACH REVEGETATION (2,280 SF)							
SYMBOL	TYPE	SCIENTIFIC NAME	COMMON NAME	INSTALL SIZE	SPACING OC	QUANTITY	
	TREE - DECIDUOUS	ARBUTUS MENZIESII	PACIFIC MADRONE	TBD	AS SHOWN	4	
	TREE - CONIFEROUS	PINUS CONTORTA V. CONTORTA	SHORE PINE	TBD	AS SHOWN	3	
	SHRUB	SALIX HOOKERIANA	COASTAL WILLOW	LIVE STAKE	5' OC	38	
	GROUNDCOVER	DESCHAMPIA CAESPITOSA	TUFTED HAIRGRASS	PLUG	30" OC	84	
		DISTICHLIS SPICATA	SALTGRASS	PLUG	30" OC	127	
		FRAGARIA CHILLOENSIS	BEACH STRAWBERRY	PLUG	30" OC	42	
		LEYMUS MOLLIS	AMERICAN DUNEGRASS	PLUG	30" OC	127	
		PLANTAGO MARITIMA	SEA PLANTAIN	PLUG	30" OC	42	
SOIL AMENDMENTS				INSTALL 6" TOPSOIL (TYPE TO BE DETERMINED) IN TREE AND GROUNDCOVER PLANTING AREAS ONLY. INSTALL 3" DEEP LAYER OF FINE COMPOST AND TILL INTO NATIVE SOIL TO A DEPTH OF 6" IN LAWN AREA ONLY.			
MULCH				INSTALL 3" DIAMETER, 3" DEPTH MULCH RING AT EACH TREE.			

* PLANT WILLOW LIVE STAKES IN 5-FT BAND FROM TOP OF BANK OF PELLY CREEK, OVER GROUNDCOVER PLANTINGS (APPROXIMATE AREA: 815 SF)

TO BE DETERMINED

NO.	REVISION - AS BUILT	DATE
3		
2		
1		

REVISION: **PARK ENGINEER** DATE
 All work shall be in accordance with the City of Seattle Standard Plans and Specifications is either on file at the office, and supplemented by Special Provisions.

ESA
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 STE. 200
 SEATTLE, WA 98107
 OFFICE - 206.789.9058
 WWW.ESASDC.COM

60 DAY NOTIFICATION
 60 DAY NOTIFICATION
 60 DAY NOTIFICATION

Seattle Parks & Recreation

LOWMAN BEACH PARK
 SHORELINE RESTORATION

LANDSCAPE SCHEDULE & DETAILS

DESIGNED: ASD	DATE: 04/29/2019
DRAWN: ZSG	
CHECKED: MFR	SHEET: 25 OF 25
ORDINANCE NO. X	L2
SPECIFICATION NO. X	
SCALE: AS NOTED	

PLOT DATE: 7/20/2019 2:22:50 PM PLOTTED BY: PABLO QUIROGA FILE NAME: \\s01\proj\projects\SEA\180020-00\Lowman Beach Park\CAZD.dwg CAZD.dwg CAZD.dwg SCHEDULE & DETAILS.dwg