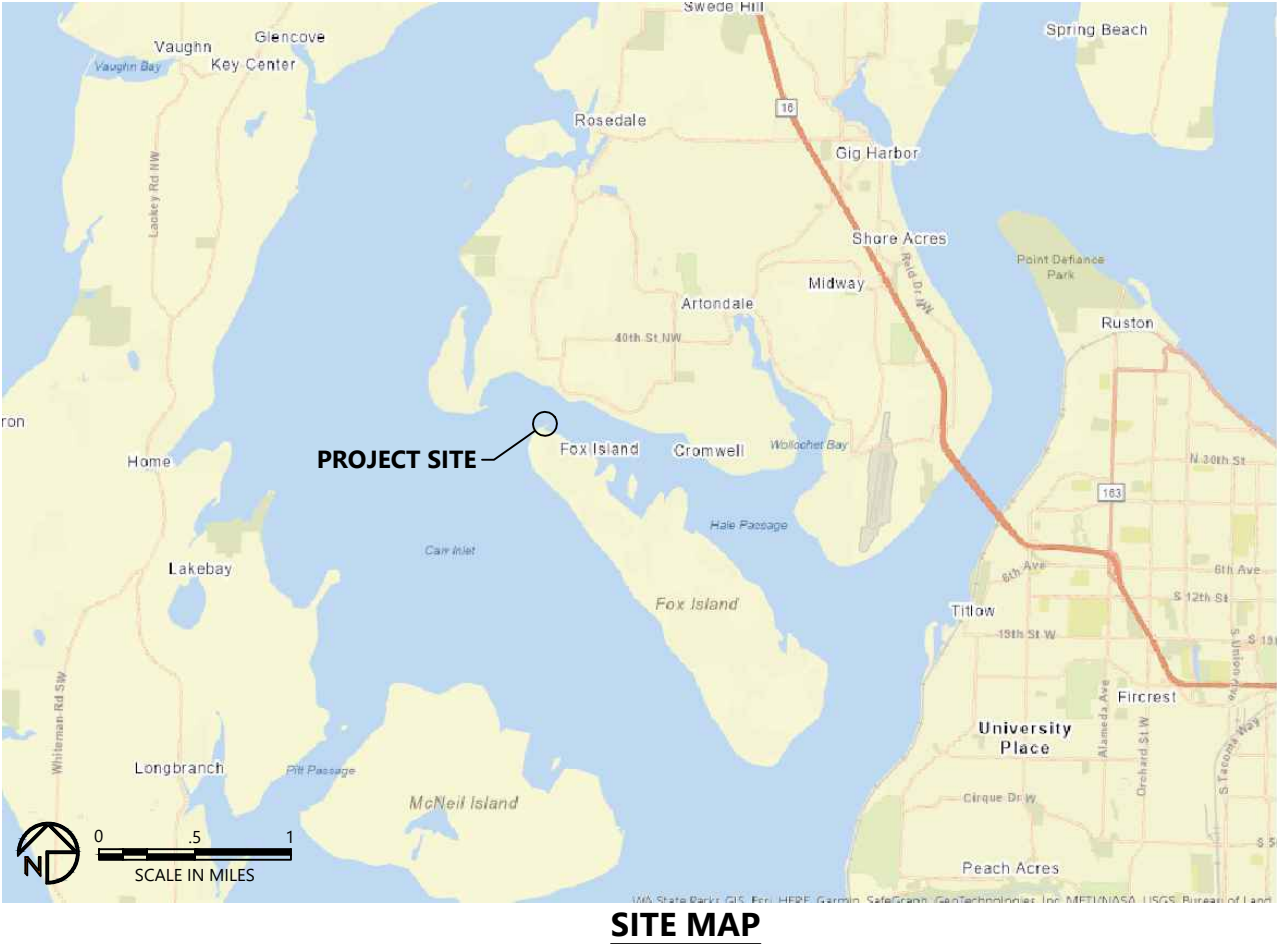


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DEMOLAY SANDSPIT PARK NEARSHORE RESTORATION PROJECT

PIERCE CONSERVATION DISTRICT



DRAWING INDEX		
SHEET NO.	DRAWING	SHEET TITLE
1	G-01	COVER SHEET
2	G-02	NOTES AND ABBREVIATIONS
3	C-01	EXISTING CONDITIONS PLAN
4	C-02	ACCESS, STAGING, AND TESC
5	C-03	SWPPP NOTES
6	C-04	TESC DETAILS
7	C-05	DEMOLITION PLAN
8	C-06	EXCAVATION PLAN (1 OF 2)
9	C-07	EXCAVATION PLAN (2 OF 2)
10	C-08	MATERIALS AND GRADING PLAN (1 OF 3)
11	C-09	MATERIALS AND GRADING PLAN (2 OF 3)
12	C-10	MATERIALS AND GRADING PLAN (3 OF 3)
13	C-11	GRADING CROSS-SECTIONS (A-A' THRU D-D')
14	C-12	GRADING CROSS-SECTIONS (F-F' & G-G')
15	C-13	GRADING DETAILS
16	L-01	PLANTING PLAN (1 OF 4)
17	L-02	PLANTING PLAN (2 OF 4)
18	L-03	PLANTING PLAN (3 OF 4)
19	L-04	PLANTING PLAN (4 OF 4)
20	L-05	PLANTING SCHEDULE AND ADDITIONAL CLEARING NOTES
21	L-06	PLANTING DETAILS
22	L-07	CONSTRUCTION MATERIALS
23	L-08	DETAILS

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DEMOLAY SANDSPIT PARK
NEARSHORE RESTORATION PROJECT

COVER SHEET

G-01

SHEET # 1 OF 23

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GENERAL CONSTRUCTION NOTES:

1. CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY TO COMPLETE ALL WORK AS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS.
2. CONTRACTOR SHALL NOT DEVIATE FROM THE DRAWINGS AND SPECIFICATIONS WITHOUT RECIEVEING PRIOR WRITTEN APPROVAL FROM THE OWNER'S REPRESENTATIVE.
3. DISCREPANCIES BETWEEN THE DRAWINGS AND THE SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNERS REPRESENTATIVE PRIOR TO PROCEEDING WITH THE WORK.
4. THE CONTRACTOR SHALL RECEIVE, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
5. THE CONTRACTOR SHALL PLACE AND INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE BY THE OWNER'S REPRESENTATIVE OR WHERE LOCAL CODE OR REGULATIONS TAKE PRECEDENCE.
6. CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
7. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK TO MEET THE CONTRACTOR'S CONSTRUCTION SCHEDULE AS REQUIRED BY THE SPECIFICATIONS.
8. CONTRACTOR SHALL KEEP JOB SITE AREA CLEAN AND HAZARD-FREE. CONTRACTOR SHALL DISPOSE OF ALL DIRT, DEBRIS, AND RUBBISH FOR DURATION OF THE WORK. UPON COMPLETION OF WORK, CONTRACTOR SHALL REMOVE ALL MATERIAL AND EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY.
9. NOTES AND DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES HEREON AND OVER THE SPECIFICATIONS WHERE A CONFLICT EXISTS.
10. DIMENSION CALLOUTS SHALL TAKE PRECEDENCE OVER SCALES SHOWN ON THE CONTRACT PLANS.

PERMIT AND REGULATORY REQUIREMENTS:

1. ADDITIONAL BMPs AND TESC MEASURES NOT SHOWN MAY BE REQUIRED TO SATISFY ALL PERMIT AND REGULATORY REQUIREMENTS INCLUDING STORMWATER CONTROL MEASURES. ADDITIONAL BMPs AND TESC MEASURES SHALL BE PERFORMED TO MEET ALL PERMIT AND REGULATORY REQUIREMENTS AT NO ADDITIONAL COST TO THE PIERCE CONSERVATION DISTRICT.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SATISFYING ALL APPLICABLE PERMIT REQUIREMENTS AND FOLLOWING ALL APPLICABLE ORDINANCES.
3. THE PERMITS SHALL BE FURNISHED BY THE OWNER TO THE CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION.
4. THE CONTRACTOR SHALL REVIEW ALL PERMIT REQUIREMENTS AND NOTIFY THE OWNER OR OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES BETWEEN THE DRAWINGS, SPECIFICATIONS, AND PERMIT REQUIREMENTS OR REGULATIONS.
5. ALL WORK SHALL SATISFY CONDITIONS AND REQUIREMENTS OF LOCAL, STATE, AND FEDERAL PERMITS, AS APPLICABLE. IN CASES WHERE CONDITIONS AND/OR REQUIREMENTS VARY FROM PERMIT TO PERMIT, THE MOST STRINGENT CONDITION AND/OR REQUIREMENT OR ORDINANCE GOVERNS THE PROJECT.

WORK RESTRICTIONS:

1. ALL WORK SHALL BE CONDUCTED WITHIN THE LIMITS OF WORK AS SHOWN ON THE DRAWINGS INCLUDING CONTRACTOR OPERATION OF VEHICLES AND MACHINERY EXCEPT FOR ACCESS TO THE SITE THROUGH THE CONSTRUCTION ACCESS CORRIDOR OR OFF-SITE STAGING AND STOCKPILING ACTIVITIES PER THE SPECIFICATIONS.
2. ALL WORK SHALL BE COMPLETED IN THE DRY, NO IN-WATER WORK SHALL BE CONDUCTED AS PART OF THIS WORK.
3. WORK AT OR BELOW THE OHWM ELEVATION SHALL BE COMPLETED DURING THE FISH WINDOWS AS STATED IN THE PERMITS.
4. CONTRACTOR SHALL NOT EXCAVATE OR DISTURB EXISTING SITE SEDIMENTS, MATERIALS, OR VEGETATION OUTSIDE OF THE HORIZONTAL AND VERTICAL EXTENTS INDICATED ON THE DRAWINGS.
5. THE AREAS WITHIN OR OUTSIDE OF THE WORK AREA LIMITS DISTURBED BY THE CONTRACTOR SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.

UTILITY NOTES:

1. CONTRACTOR SHALL CONDUCT A COMPREHENSIVE SUBSURFACE AND ABOVE-GROUND UTILITY LOCATE WITHIN THE WORK AREA LIMITS AND SHALL BE RESPONSIBLE FOR PROTECTING IN PLACE ALL EXISTING UTILITIES THAT ARE NOT TO BE REPLACED AS PART OF THE WORK.
2. DAMAGE OF KNOWN OR UNKNOWN UTILITIES BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.

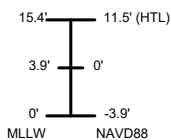
SURVEY NOTES:

1. EXISTING CONDITIONS TOPOGRAPHY IS BASED ON A JANUARY 2013 TOPOGRAPHIC & BOUNDARY SURVEY COMPLETED BY PRIZM SURVEYING INC AND 2023 & 2024 TOPOGRAPHIC AND BOUNDARY SURVEYS COMPLETED BY SITTS & HILL ENGINEERS, INC. SITTS & HILL ENGINEERS PROVIDED A COMBINED SURFACE FROM ALL SURVEYS IN NORTH AMERICAN VERTICAL DATUM OF 1988.
2. HORIZONTAL DATUM IS WASHINGTON STATE PLANE NORTH ZONE, NORTH AMERICAN DATUM OF 1983, U.S. SURVEY FEET.
3. VERTICAL DATUM IS NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), FEET.
4. ORDINARY HIGH WATER MARK (OHWM) AND WETLANDS WERE DELINEATED BY ECOLOGICAL LAND SERVICES (ELS) IN APRIL 2024. EELGRASS AREAS WERE DELINEATED BY ELS IN JUNE 2024.

TIDAL ELEVATIONS (FEET, NAVD88):

HIGHEST ASTRONOMICAL TIDE/
HIGH TIDE LINE (HTL): +11.5
MEAN HIGHER HIGH WATER (MHHW): +9.4
MEAN HIGH WATER (MHW): +8.5
MEAN TIDE LEVEL (MTL): +3.7
MEAN LOW WATER (MLW): -1.0
MEAN LOWER LOW WATER (MLLW): -3.9

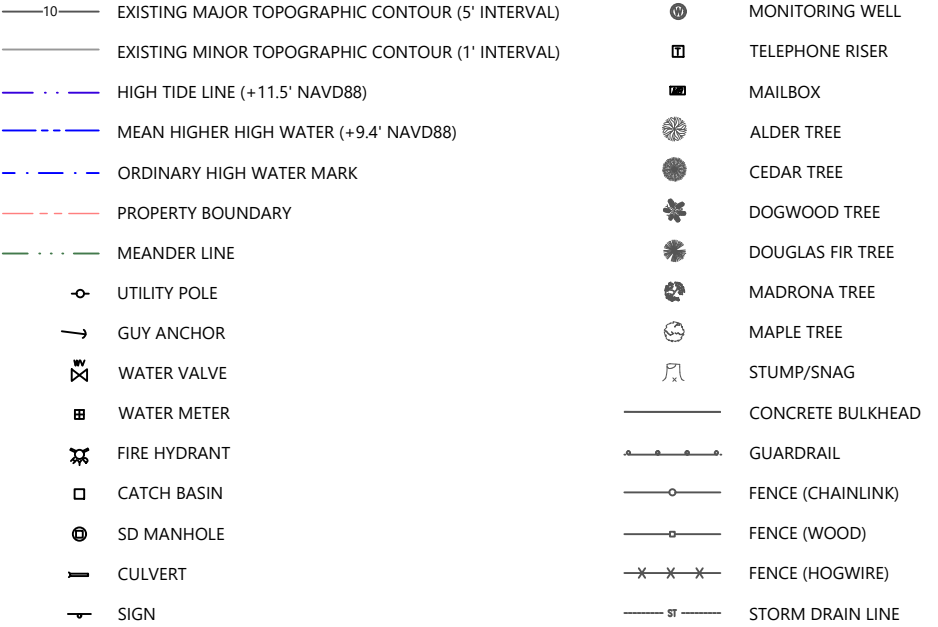
DATUM CONVERSION



DATUM SOURCES:

1. NOAA-NOS STATION #9446491 IN ARLETTA, WA & NOAA TIDAL BENCHMARK SY2987 HTL DETERMINED BY BLUE COAST ENGINEERING AS AVERAGE PREDICTED HIGH TIDE OVER 10 YR PERIOD FROM 2021 TO 2030 AT THE NOAA-NOS ARLETTA STATION.

EXISTING CONDITIONS LEGEND:



SURVEY CONTROL POINTS:

POINT NO.	NORTHING (FT)	EASTING (FT)	ELEV. (FT)	DESCRIPTION
11	716093.92	1102757.26	53.34	MON
13	715847.89	1102742.56	92.64	MAG
78	715962.99	1102722.28	75.29	HT
79	716209.7	1102626.66	39.87	HT
80	716273.07	1102702.65	29.83	MAG
81	716307.93	1102753.74	19.18	MAG
82	715729.9	1102787.83	119.32	MAG
83	715621.17	1102808.94	136.25	MAG
84	715847.89	1102594.42	96.33	HT
85	715872.1	1102392.44	52.35	HT
86	715783.09	1102384.03	51.98	HT
87	715812.11	1102300.19	33.73	HT
88	715841.35	1102227.79	12.38	SCRIBE
89	715624.77	1102292.94	56.21	MAG
90	715763.54	1102534.16	106.32	HT
91	715649.39	1102733.38	133.58	MAG
92	715936.66	1102330.37	26.75	HT
93	715742.43	1102241.24	28.12	HT
94	715720.64	1102170.29	13.46	HT

95	715972.61	1102500.6	72.71	HT
96	715981.31	1102350.19	25.93	HT
97	716093.45	1102427.57	23.14	HT
98	716204.34	1102605.17	38.53	HT
99	716251.27	1102520.11	15.37	HT
100	716391.98	1102719.34	13	HT
101	715747.91	1102149.55	9.47	HT
5063	715547.28	1102809.79	143.05	RBC 5/8" JOHNSON 28600?
5064	715646.45	1102779.04	132.5	RBC 5/8" LS112?
5079	715772.72	1102731.41	116.49	IP 3/4" ID
5261	715862.21	1102376.49	48.55	MAG X M/T LS28408
5266	715655.09	1102257.53	55.06	IP 3/4" ID
5788	715667.63	1102195.03	24.76	RBC X 5/8"-BERG-LS112 78
5918	715869.46	1102240.68	11.97	RBC
6117	715678.28	1102141.13	10.62	RBC SET
6118	715925.15	1102271.83	11.17	MON 2" ALUM
6119	715679.48	1102134.92	14.04	LDTK

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REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION

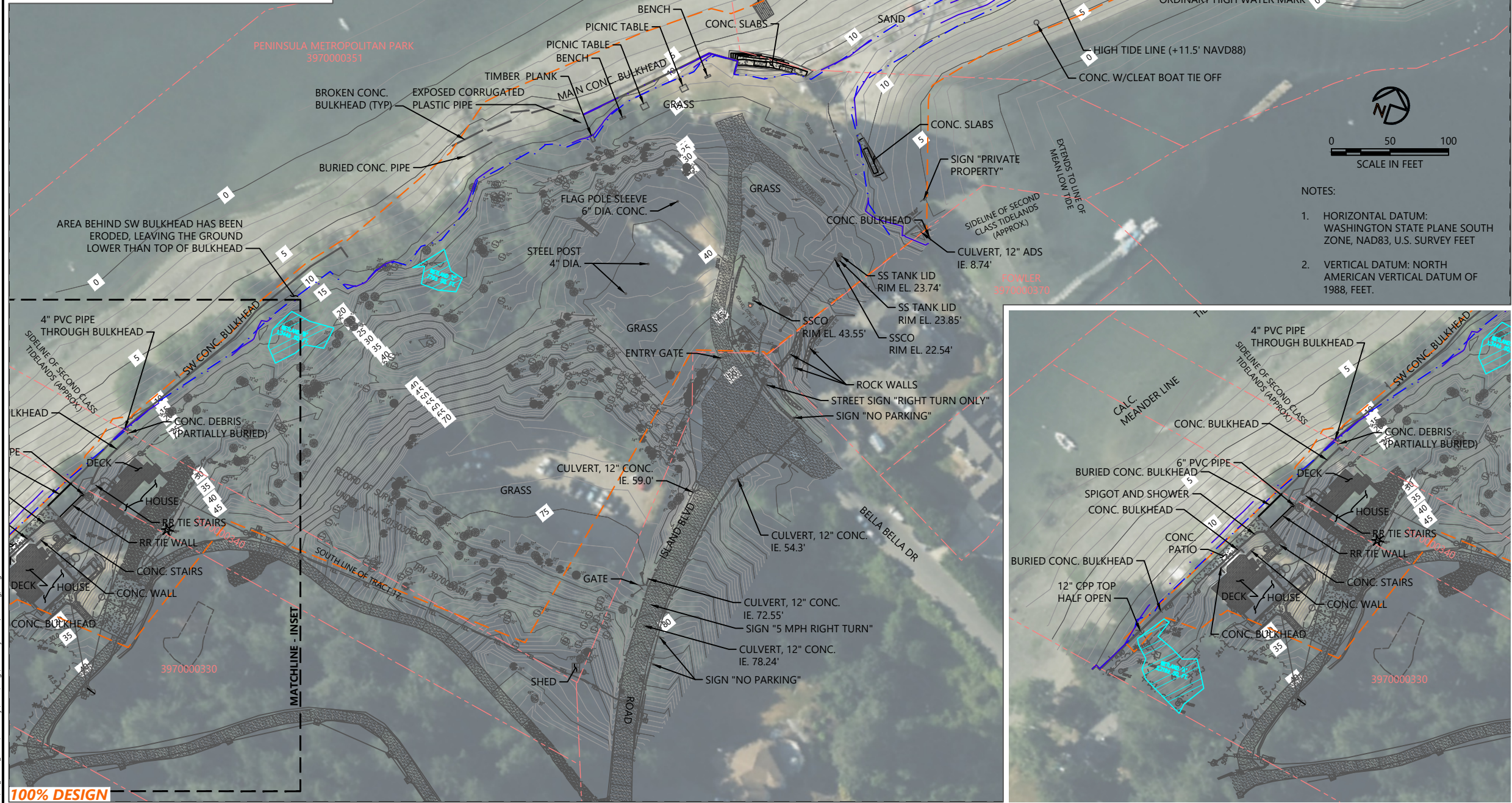
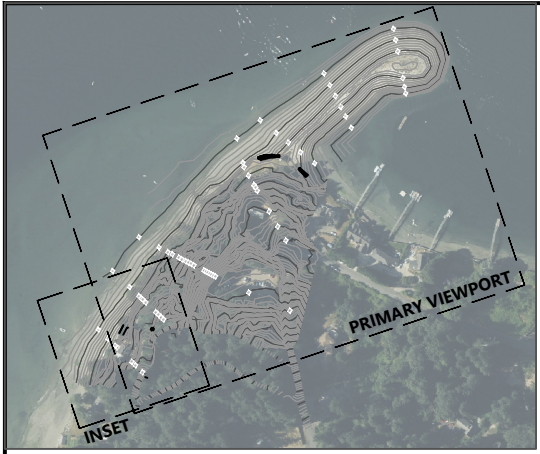
DESIGNED BY: G.CURTISS
DRAWN BY: E.PIKIN
CHECKED BY: K.KETTERIDGE
APPROVED BY: J.COTE
SCALE: AS NOTED
DATE: JUNE 2025

DEMOLAY SANDSPIT PARK
NEARSHORE RESTORATION PROJECT

NOTES AND ABBREVIATIONS

G-02

SHEET # 2 OF 23



LEGEND:

- 10— MAJOR TOPOGRAPHIC CONTOUR (5' INTERVAL)
- MINOR TOPOGRAPHIC CONTOUR (1' INTERVAL)
- - - - - HIGH TIDE LINE (+11.5' NAVD88)
- - - - - ORDINARY HIGH WATER MARK
- - - - - PROJECT WORK LIMITS
- - - - - PROPERTY BOUNDARY
- - - - - MEANDER LINE
- UTILITY POLE
- ⌋ GUY ANCHOR
- ⊕ WATER VALVE
- ⊕ WATER METER
- ⊕ FIRE HYDRANT
- CATCH BASIN
- ⊕ SD MANHOLE
- CULVERT
- SIGN
- ⊕ MONITORING WELL
- ⊕ TELEPHONE RISER
- ⊕ MAILBOX
- ⊕ ALDER TREE
- ⊕ CEDAR TREE
- ⊕ DOGWOOD TREE
- ⊕ DOUGLAS FIR TREE
- ⊕ MADRONA TREE
- ⊕ MAPLE TREE
- ⊕ STUMP/SNAG
- CONCRETE BULKHEAD
- GUARDRAIL
- FENCE (CHAINLINK)
- FENCE (WOOD)
- FENCE (HOGWIRE)
- STORM DRAIN LINE
- SEWER LINE
- OVERHEAD UTILITY LINE
- GAS LINE
- POWER LINE
- TELEPHONE LINE
- WATER LINE
- DITCH LINE
- ASPHALT PAVEMENT
- CONCRETE

NOTES:

- HORIZONTAL DATUM: WASHINGTON STATE PLANE SOUTH ZONE, NAD83, U.S. SURVEY FEET
- VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988, FEET.

SCALE IN FEET

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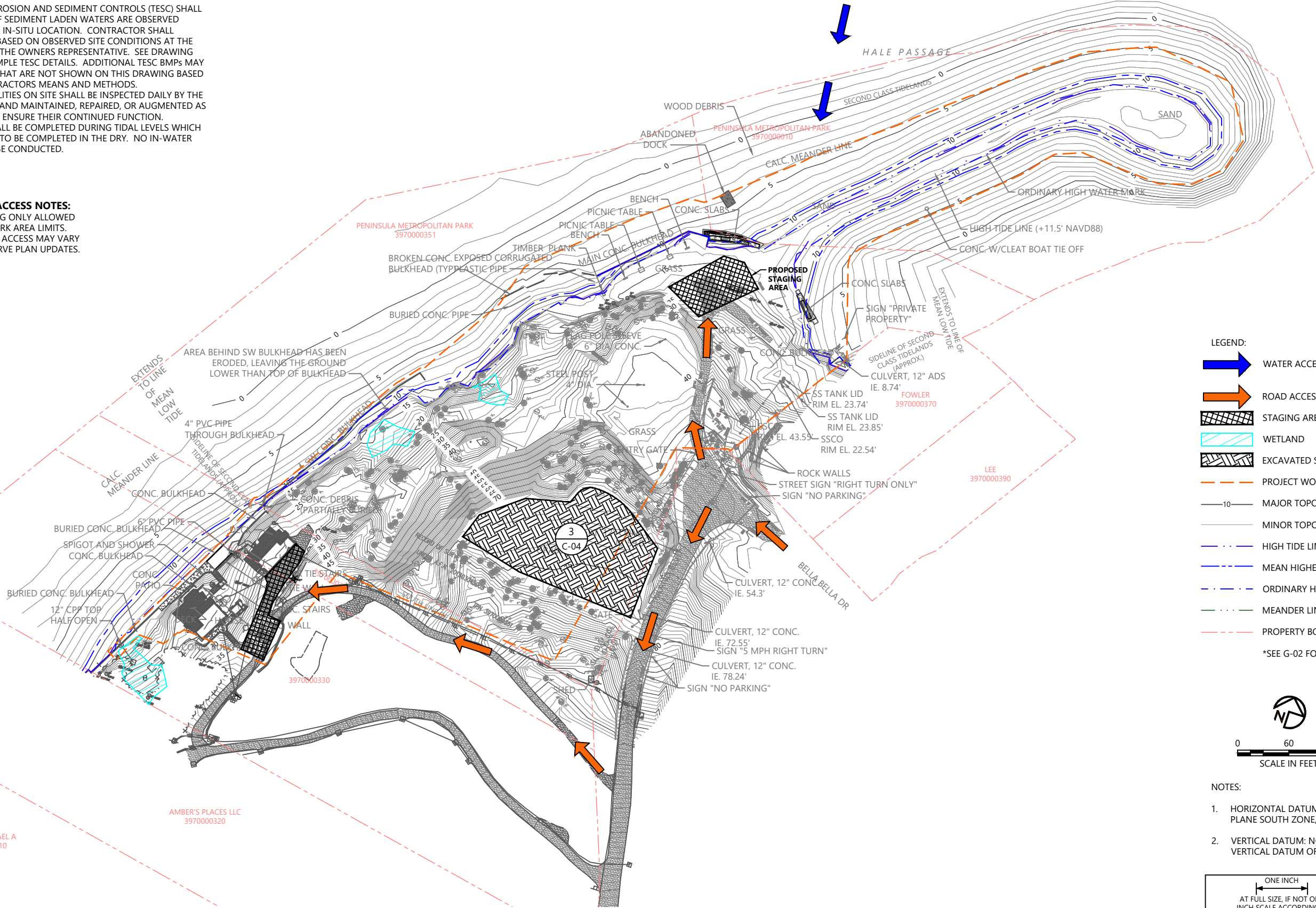
PLAN INTENDED TO BE VIEWED IN COLOR, ADJACENT BLOCK IS "ORANGE"

TESC NOTES:

1. TEMPORARY EROSION AND SEDIMENT CONTROLS (TESC) SHALL BE REQUIRED IF SEDIMENT LADEN WATERS ARE OBSERVED LEAVING THEIR IN-SITU LOCATION. CONTRACTOR SHALL INSTALL TESC BASED ON OBSERVED SITE CONDITIONS AT THE DIRECTION OF THE OWNERS REPRESENTATIVE. SEE DRAWING C-03 FOR EXAMPLE TESC DETAILS. ADDITIONAL TESC BMPs MAY BE REQUIRED THAT ARE NOT SHOWN ON THIS DRAWING BASED ON THE CONTRACTORS MEANS AND METHODS.
2. THE TESC FACILITIES ON SITE SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED, REPAIRED, OR AUGMENTED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTION.
3. ALL WORK SHALL BE COMPLETED DURING TIDAL LEVELS WHICH ALLOW WORK TO BE COMPLETED IN THE DRY. NO IN-WATER WORK SHALL BE CONDUCTED.

CONSTRUCTION ACCESS NOTES:

1. BARGE SPUDDING ONLY ALLOWED WITHIN THE WORK AREA LIMITS.
2. CONSTRUCTION ACCESS MAY VARY PENDING PRESERVE PLAN UPDATES.



- LEGEND:
- WATER ACCESS ROUTE
 - ROAD ACCESS ROUTE
 - STAGING AREA
 - WETLAND
 - EXCAVATED SOIL STOCKPILE LOCATION
 - PROJECT WORK LIMITS
 - MAJOR TOPOGRAPHIC CONTOUR (5' INTERVAL)
 - MINOR TOPOGRAPHIC CONTOUR (1' INTERVAL)
 - HIGH TIDE LINE (+11.5' NAVD88)
 - MEAN HIGHER HIGH WATER (+9.4' NAVD88)
 - ORDINARY HIGH WATER MARK
 - MEANDER LINE
 - PROPERTY BOUNDARY
- *SEE G-02 FOR EXISTING LEGEND ITEMS



0 60 120
SCALE IN FEET

NOTES:

1. HORIZONTAL DATUM: WASHINGTON STATE PLANE SOUTH ZONE, NAD83, U.S. SURVEY FEET
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DEMOLAY SANDSPIT PARK
NEARSHORE RESTORATION PROJECT

ACCESS, STAGING, AND TESC

C-02

SHEET # 4 OF 23

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SWPPP ELEMENTS:

- ELEMENT 1 - MARK CLEARING LIMITS
- A. PRIOR TO BEGINNING LAND-DISTURBING ACTIVITIES, INCLUDING CLEARING AND GRADING, ALL CLEARING LIMITS, SENSITIVE AREAS, AND THEIR BUFFERS SHALL BE CLEARLY MARKED, BOTH IN THE FIELD AND ON THE PLANS TO PREVENT DAMAGE AND OFF-SITE IMPACTS. PLASTIC, METAL, OR STAKE WIRE FENCE MAY BE USED TO MARK THE CLEARING LIMITS.
 - B. RETAIN THE DUFF LAYER, NATIVE TOPSOIL, AND NATURAL VEGETATION IN AN UNDISTURBED STATE TO THE MAXIMUM DEGREE PRACTIBLE PER WASHINGTON STATE DEPARTMENT OF ECOLOGY 2019 STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON (SMMWW) BMP C101 AND C102.
- ELEMENT 2 - ESTABLISH CONSTRUCTION ACCESS
- A. CONSTRUCTION VEHICLE ACCESS AND EXIT SHALL BE LIMITED TO ONE ROUTE, IF POSSIBLE.
 - B. ACCESS POINTS SHALL BE STABILIZED WITH QUARRY SPALLS, CRUSHED ROCK, OR AN EQUIVALENT BMP TO MINIMIZE THE TRACKING OF SEDIMENT ONTO PUBLIC ROADS. RECYCLED CONCRETE SHALL NOT BE USED TO ESTABLISH CONSTRUCTION ACCESS POINTS.
 - C. WHEEL WASH OR TIRE BATHS SHALL BE LOCATED ON SITE, IF APPLICABLE.
 - D. PUBLIC ROADS SHALL AT A MINIMUM BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENTS SHALL BE REMOVED FROM ROADS BY SHOVELING OR PICKUP SWEEPING AND SHALL BE TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA. STREET WASHING WILL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER.
 - E. STREET WASH WASTEWATER SHALL BE CONTROLLED BY PUMPING BACK ON SITE, OR OTHERWISE BE PREVENTED FROM DISCHARGING INTO SYSTEMS TRIBUTARY TO STATE SURFACE WATERS.
- ELEMENT 3 - CONTROL FLOW RATES
- A. PROPERTIES AND WATERWAYS DOWNSTREAM FROM DEVELOPMENT SITES SHALL BE PROTECTED FROM EROSION DUE TO INCREASES IN THE VOLUME, VELOCITY, AND PEAK FLOW RATE OF STORMWATER RUNOFF FROM THE PROJECT SITE. CONTRACTOR SHALL IMPLEMENT CONTROLS AS EARLY IN THE DEVELOPMENT AS IS PRACTICABLE TO MITIGATE FOR FLOW RATES.
 - B. DOWNSTREAM ANALYSIS IS NECESSARY IF CHANGES IN FLOWS COULD IMPAIR OR ALTER CONVEYANCE SYSTEMS, STREAM BANKS, BED SEDIMENT OR AQUATIC HABITAT. SEE THE SMMWW FOR OFF-SITE ANALYSIS GUIDANCE.
- ELEMENT 4 - INSTALL SEDIMENT CONTROLS
- A. THE DUFF LAYER, NATIVE TOPSOIL, AND NATURAL VEGETATION SHALL BE RETAINED IN AN UNDISTURBED STATE TO MAXIMUM EXTENT PRACTICABLE.
 - B. INSTALL SEDIMENT CONTROL BMPS AS ONE FOR THE FIRST STEPS. THESE BMPS SHALL BE FUNCTIONAL BEFORE OTHER LAND DISTURBING ACTIVITIES TAKE PLACE.
 - C. MINIMIZE SEDIMENT DISCHARGES FROM THE SITE. THE DESIGN, INSTALLATION, AND MAINTENANCE OF EROSION AND SEDIMENT CONTROLS MUST ADDRESS FACTORS SUCH AS THE AMOUNT, FREQUENCY, INTENSITY, AND DURATION OF PRECIPITATION, THE NATURE OF RESULTING STORMWATER RUNOFF, AND SOIL CHARACTERISTICS, INCLUDING THE RANGE OF SOIL PARTICLE SIZES EXPECTED TO BE PRESENT ON THE SITE.
 - D. PRIOR TO LEAVING A CONSTRUCTION SITE, OR PRIOR TO DISCHARGE TO AN INFILTRATION FACILITY, STORMWATER RUNOFF FROM DISTURBED AREAS SHALL PASS THROUGH A SEDIMENT POND OR OTHER APPROPRIATE SEDIMENT REMOVAL BMP. RUNOFF FROM FULLY STABILIZED AREAS MAY BE DISCHARGED WITHOUT A SEDIMENT REMOVAL BMP BUT MUST MEET THE FLOW CONTROL PERFORMANCE STANDARD OF ELEMENT 3. FULL STABILIZATION MEANS CONCRETE OR ASPHALT PAVING; QUARRY SPALLS USED AS DITCH LINING; OR THE USE OF ROLLED EROSION PRODUCTS, A BONDED FIBER MATRIX PRODUCT, OR VEGETATIVE COVER IN A MANNER THAT WILL FULLY PREVENT SOIL EROSION. SEDIMENT PONDS, VEGETATED BUFFER STRIPS, SEDIMENT BARRIERS OR FILTERS, DIKES, AND OTHER BMPS INTENDED TO TRAP SEDIMENT ON SITE SHALL BE CONSTRUCTED AS ONE OF THE FIRST STEPS IN GRADING. THESE BMPS SHALL BE FUNCTIONAL BEFORE OTHER LAND-DISTURBING ACTIVITIES TAKE PLACE.
 - E. EARTHEN STRUCTURES SUCH AS DAMS, DIKES, AND DIVERSIONS SHALL BE SEEDED AND MULCHED ACCORDING TO THE TIMING INDICATED IN ELEMENT 5 BELOW.
- ELEMENT 5 - STABILIZE SOILS
- A. ALL EXPOSED AND UNWORKED SOILS SHALL BE STABILIZED BY THE APPLICATION OF EFFECTIVE BMPS THAT PROTECT THE SOIL FROM THE EROSION FORCES OF RAINDROP IMPACT AND FLOWING WATER, AND WIND EROSION.
 - B. FROM MAY 1ST TO SEPTEMBER 30TH OF EACH YEAR, NO SOILS SHALL REMAIN EXPOSED AND UNWORKED FOR MORE THAN SEVEN DAYS. FROM OCTOBER 1ST THROUGH APRIL 30TH OF EACH YEAR, NO SOILS SHALL REMAIN EXPOSED AND UNWORKED FOR MORE THAN TWO DAYS. THIS CONDITION APPLIES TO ALL SOILS ON SITE, WHETHER AT FINAL GRADE OR NOT.
 - C. STABILIZE SOIL AT THE END OF THE SHIFT BEFORE A HOLIDAY OR WEEKEND, IF NEEDED, BASED ON THE WEATHER FORECAST.
 - D. APPLICABLE PRACTICES INCLUDE, BUT ARE NOT LIMITED TO, TEMPORARY AND PERMANENT SEEDING, SODDING, MULCHING, PLASTIC COVERING, SOIL APPLICATION OF POLYACRYLAMIDE (PAM), EARLY APPLICATION OF GRAVEL BASE TO PATH AND PARKING LOT AREAS, AND DUST CONTROL.
 - E. SOIL STABILIZATION MEASURES SELECTED SHOULD BE APPROPRIATE FOR THE TIME OF YEAR, SITE CONDITIONS, ESTIMATED DURATION OF USE, AND POTENTIAL WATER QUALITY IMPACTS THAT STABILIZATION AGENTS MAY HAVE ON DOWNSTREAM WATERS OR GROUND WATER.
 - F. SOIL STOCKPILES MUST BE STABILIZED AND PROTECTED WITH SEDIMENT TRAPPING MEASURES AND, WHERE POSSIBLE, BE LOCATED AWAY FROM STORM DRAIN INLETS, WATERWAYS, AND DRAINAGE CHANNELS.
 - G. WORK ON LINEAR CONSTRUCTION SITES AND ACTIVITIES SHALL NOT EXCEED THE CAPABILITY OF THE INDIVIDUAL CONTRACTOR FOR HIS PORTION OF THE PROJECT TO INSTALL THE BEDDING MATERIALS, STRUCTURES, PIPELINES, AND/OR UTILITIES, AND TO RE-STABILIZE THE DISTURBED SOILS, MEETING THE TIMING CONDITIONS LISTED ABOVE.
 - H. MINIMIZE THE AMOUNT OF SOIL EXPOSED DURING CONSTRUCTION ACTIVITY.
 - I. MINIMIZE THE DISTURBANCE OF STEEP SLOPES.
 - J. IN ADDITION, AT THE DISCRETION OF THE PUBLIC WORKS DIRECTOR, THOSE SITES UNABLE TO MAINTAIN THE QUALITY OF THEIR STORM WATER DISCHARGE MAY BE REQUIRED TO PROVIDE SOIL STABILIZATION TO ALL EXPOSED SOIL AREAS REGARDLESS OF THE WORKING STATUS OF THE AREA. UPON WRITTEN NOTIFICATION, THE CONTRACTOR SHALL PROVIDE FULL STABILIZATION OF ALL EXPOSED SOIL AREAS WITHIN 24 HOURS.
- ELEMENT 6 - PROTECT SLOPES
- A. CUT AND FILL SLOPES SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION.

- B. CONSIDER SOIL TYPE AND ITS POTENTIAL FOR EROSION.
 - C. REDUCE SLOPE RUNOFF VELOCITIES BY REDUCING THE CONTINUOUS LENGTH OF SLOPE WITH TERRACING AND DIVERSIONS, REDUCE SLOPE STEEPNESS, AND ROUGHEN SLOPE SURFACE.
 - D. DIVERT UP-SLOPE DRAINAGE AND RUN-ON WATERS FROM OFF SITE WITH INTERCEPTORS AT THE TOP OF SLOPE. OFF-SITE STORM WATER SHOULD BE HANDLED SEPARATELY FROM STORMWATER GENERATED ON THE SITE. DIVERSION OF OFF-SITE STORMWATER AROUND THE SITE MAY BE A VIABLE OPTION. DIVERTED FLOWS SHALL BE REDIRECTED TO THE NATURAL DRAINAGE LOCATION AT OR BEFORE THE PROPERTY BOUNDARY.
 - E. CONTAIN DOWN SLOPE COLLECTED FLOWS IN PIPES, SLOPE DRAINS, OR PROTECTED CHANNELS.
 - F. PROVIDE DRAINAGE TO REMOVE GROUND WATER INTERSECTING THE SLOPE SURFACE OF EXPOSED SOIL AREAS.
 - G. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES, CONSISTENT WITH SAFETY AND SPACE CONSIDERATIONS.
 - H. CHECK DAMS SHALL BE PLACED AT REGULAR INTERVALS WITHIN TRENCHES THAT ARE CUT DOWN A SLOPE.
 - I. STABILIZE SOILS ON SLOPES, AS SPECIFIED IN ELEMENT NO. 5.
- ELEMENT 7 - PROTECT DRAIN INLETS
- A. ALL STORM DRAIN INLETS MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT STORMWATER RUNOFF SHALL NOT ENTER THE CONVEYANCE SYSTEM WITHOUT BEING FILTERED OR TREATED TO REMOVE SEDIMENT.
 - B. ALL APPROACH ROADS SHALL BE KEPT CLEAN, AND ALL SEDIMENT AND STREET WASH WATER SHALL NOT BE ALLOWED TO ENTER STORM DRAINS WITHOUT PRIOR AND ADEQUATE TREATMENT UNLESS TREATMENT IS PROVIDED BEFORE THE STORM DRAIN DISCHARGES TO WATERS OF THE STATE.
 - C. CLEAN OR REMOVE AND REPLACE INLET PROTECTION DEVICES WHEN SEDIMENT HAS FILLED ONE-THIRD OF THE AVAILABLE STORAGE (UNLESS A DIFFERENT STANDARD IS SPECIFIED BY THE PRODUCT MANUFACTURER).
- ELEMENT 8 - STABILIZE CHANNELS AND OUTLETS
- A. ALL TEMPORARY ON-SITE CONVEYANCE CHANNELS SHALL BE DESIGNED, CONSTRUCTED AND STABILIZED TO PREVENT EROSION FROM EXPECTED VELOCITY OF FLOW FROM A TWO-YEAR, 24-HOUR FREQUENCY STORM FOR THE DEVELOPED CONDITION.
 - B. STABILIZATION, INCLUDING ARMORING MATERIAL, ADEQUATE TO PREVENT EROSION OF OUTLETS, ADJACENT STREAM BANKS, SLOPES AND DOWNSTREAM REACHES SHALL BE PROVIDED AT THE OUTLETS OF ALL CONVEYANCE SYSTEMS.
- ELEMENT 9 - CONTROL POLLUTANTS
- A. ALL POLLUTANTS, INCLUDING WASTE MATERIALS AND DEMOLITION DEBRIS, THAT OCCUR ON SITE DURING CONSTRUCTION SHALL BE HANDLED AND DISPOSED OF IN A MANNER THAT DOES NOT CAUSE CONTAMINATION OF STORM WATER.
 - B. COVER, CONTAINMENT, AND PROTECTION FROM VANDALISM SHALL BE PROVIDED FOR ALL CHEMICALS, LIQUID PRODUCTS, PETROLEUM PRODUCTS, AND NON-INERT WASTES PRESENT ON THE SITE (SEE CHAPTER 173-304 WAC, AS CURRENTLY ENACTED ON HEREAFTER MODIFIED, FOR THE DEFINITION OF INERT WASTE, WHICH IS INCORPORATED HEREIN BY THIS REFERENCE).
 - C. MAINTENANCE AND REPAIR OF HEAVY EQUIPMENT AND VEHICLES INVOLVING OIL CHANGES, HYDRAULIC SYSTEM DRAIN DOWN, SOLVENT AND DE-GREASING CLEANING OPERATIONS, FUEL TANK DRAIN DOWN AND REMOVAL, AND OTHER ACTIVITIES WHICH MAY RESULT IN DISCHARGE OR SPILLAGE OF POLLUTANTS TO THE GROUND OR INTO STORMWATER RUNOFF MUST BE CONDUCTED USING SPILL PREVENTION MEASURES SUCH AS DROP PANS. CONTAMINATED SURFACES SHALL BE CLEANED IMMEDIATELY FOLLOWING ANY DISCHARGE OR SPILL INCIDENT. EMERGENCY REPAIRS MAY BE PERFORMED ON SITE USING TEMPORARY PLASTIC PLACED BENEATH AND, IF RAINING, OVER THE VEHICLE.
 - D. WHEEL WASH, OR TIRE BATH WASTEWATER, SHALL BE DISCHARGED TO A SEPARATE ON-SITE TREATMENT SYSTEM OR TO THE SANITARY SEWER.
 - E. THE APPLICATION OF AGRICULTURAL CHEMICALS, INCLUDING FERTILIZERS AND PESTICIDES, SHALL BE CONDUCTED IN A MANNER AND AT APPLICATION RATES THAT WILL NOT RESULT IN LOSS OF CHEMICAL TO STORMWATER RUNOFF. MANUFACTURERS' RECOMMENDATIONS SHALL BE FOLLOWED FOR APPLICATION RATES AND PROCEDURES.
 - F. MANAGEMENT OF PH-MODIFYING SOURCES SHALL PREVENT CONTAMINATION OF RUNOFF AND STORMWATER COLLECTED ON THE SITE. THESE SOURCES INCLUDE, BUT ARE NOT LIMITED TO, BULK CEMENT, CEMENT KILN DUST, FLY ASH, NEW CONCRETE WASHING AND CURING WATERS, WASTE STREAMS GENERATED FROM CONCRETE GRINDING AND SAWING, EXPOSED AGGREGATE PROCESSES, AND CONCRETE PUMPING AND MIXER WASHOUT WATERS.
- ELEMENT 10 - CONTROL DE-WATERING
- A. ALL FOUNDATION, VAULT, AND TRENCH DE-WATERING WATER, WHICH HAS SIMILAR CHARACTERISTICS TO STORMWATER RUNOFF AT THE SITE, SHALL BE DISCHARGED INTO A CONTROLLED CONVEYANCE SYSTEM, PRIOR TO DISCHARGE TO A SEDIMENT TRAP OR SEDIMENT POND. CHANNELS MUST BE STABILIZED, AS SPECIFIED IN ELEMENT NO. 8.
 - B. CLEAN, NON-TURBID DE-WATERING WATER, SUCH AS WELL-POINT GROUND WATER, CAN BE DISCHARGED TO SYSTEMS TRIBUTARY TO STATE SURFACE WATERS, AS SPECIFIED IN ELEMENT NO. 8, PROVIDED THE DE-WATERING FLOW DOES NOT CAUSE EROSION OR FLOODING OF THE RECEIVING WATERS. THESE CLEAN WATERS SHOULD NOT BE ROUTED THROUGH SEDIMENT PONDS WITH STORMWATER.
 - C. HIGHLY TURBID OR OTHERWISE CONTAMINATED DE-WATERING WATER, SUCH AS FROM CONSTRUCTION EQUIPMENT OPERATION, CLAMSHELL DIGGING, CONCRETE TREMIE POUR, OR WORK INSIDE A COFFERDAM, SHALL BE HANDLED SEPARATELY FROM STORM WATER AT THE SITE.
 - D. OTHER DISPOSAL OPTIONS, DEPENDING ON SITE CONSTRAINTS, MAY INCLUDE, BY WAY OF EXAMPLE: (1) INFILTRATION, (2) TRANSPORT OFF SITE IN VEHICLE, SUCH AS A VACUUM FLUSH TRUCK, FOR LEGAL DISPOSAL IN A MANNER THAT DOES NOT POLLUTE STAT WATERS, (3) ON-SITE TREATMENT USING CHEMICAL TREATMENT OR OTHER SUITABLE TREATMENT TECHNOLOGIES.
- ELEMENT 11 - MAINTAIN BMPS
- A. ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL BMPS SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE THE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. ALL MAINTENANCE AND REPAIR SHALL BE CONDUCTED IN ACCORDANCE WITH BMPS.
 - B. SEDIMENT CONTROL BMPS SHALL BE INSPECTED WEEKLY OR AFTER A RUNOFF-PRODUCING STORM EVENT DURING THE DRY SEASON AND DAILY DURING THE WET SEASON. ALL PROJECTS THAT DISTURB AN AREA GREATER THAN ONE ACRE SHALL HAVE A CERTIFIED EROSION CONTROL LEAD AVAILABLE TO THE SITE. THIS EROSION CONTROL LEAD SHALL BE RESPONSIBLE TO PROVIDE OVERVIEW OF ONGOING DAY-TO-DAY EROSION CONTROL REQUIREMENTS. THE EROSION CONTROL LEAD SHALL (WITHIN 24




- HOURS) REPORT TO THE AGENCY AND DEPARTMENT OF ECOLOGY ANY SITE DISCHARGES THAT EXCEED STATE WATER QUALITY STANDARDS THAT HAVE OR ARE LIKELY TO HAVE ENTERED WATERS OF THE STATE.
- C. ALL TEMPORARY EROSION AND SEDIMENT CONTROL BMPS SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY BMPS ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHALL BE REMOVED OR STABILIZED ON SITE. DISTURBED SOIL AREAS RESULTING FROM REMOVAL OF BMPS OR VEGETATION SHALL BE PERMANENTLY STABILIZED. REMOVAL SHALL BE INCIDENTAL TO THE CONTRACTED WORK.
- ELEMENT 12 - MANAGE THE PROJECT
- A. PHASING OF CONSTRUCTION. DEVELOPMENT PROJECTS SHALL BE PHASED WHERE FEASIBLE IN ORDER TO PREVENT, TO THE MAXIMUM EXTENT PRACTICABLE, THE TRANSPORT OF SEDIMENT FROM THE DEVELOPMENT SITE DURING CONSTRUCTION. RE-VEGETATION OF EXPOSED AREAS AND MAINTENANCE OF THAT VEGETATION SHALL BE AN INTEGRAL PART OF THE CLEARING ACTIVITIES FOR ANY PHASE.
 - B. WHEN ESTABLISHING THESE PERMITTED CLEARING AND GRADING AREAS, CONSIDERATION SHOULD BE GIVEN TO MINIMIZING DISTURBANCE/COMPACTION OF NATIVE SOILS EXCEPT AS NEEDED FOR BUILDING PURPOSES. PERMITTED CLEARING AND GRADING AREAS AND ANY OTHER AREAS REQUIRED TO PRESERVE CRITICAL OR SENSITIVE AREAS, BUFFERS, NATIVE GROWTH PROTECTION EASEMENTS, OR TREE RETENTION AREAS, SHALL BE DELINEATED ON THE SITE PLANS.
 - C. COORDINATION WITH UTILITIES AND OTHER CONTRACTORS: THE PRIMARY CONTRACTOR SHALL EVALUATE, WITH INPUT FROM UTILITIES AND OTHER CONTRACTORS, THE STORMWATER MANAGEMENT REQUIREMENTS FOR THE ENTIRE PROJECT, INCLUDING THE UTILITIES, WHEN PREPARING THE CONSTRUCTION SWPPP.
 - D. INSPECTION AND MONITORING: ALL BMPS SHALL BE INSPECTED, MAINTAINED, AND REPAIRED AS NEEDED TO ASSURE THE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION.
 - E. WHENEVER INSPECTION AND/OR MONITORING REVEALS THAT THE BMPS IDENTIFIED IN THE CONSTRUCTION SWPPP ARE INADEQUATE, DUE TO THE ACTUAL DISCHARGE OF OR POTENTIAL TO DISCHARGE A SIGNIFICANT AMOUNT OF ANY POLLUTANT, THE SWPPP SHALL BE MODIFIED AS APPROPRIATE, IN A TIMELY MANNER.
 - F. FOR ANY PROJECT DISTURBING MORE THAN ONE ACRE, A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL SHALL BE IDENTIFIED IN THE CONSTRUCTION SWPPP AND SHALL BE ON SITE OR ON CALL AT ALL TIMES. CERTIFICATION MAY BE THROUGH THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION/ASSOCIATED GENERAL CONTRACTORS (WSDOT / AGC) CONSTRUCTION SITE EROSION AND SEDIMENT CONTROL CERTIFICATION PROGRAM OR ANY EQUIVALENT LOCAL OR NATIONAL CERTIFICATION AND/OR TRAINING PROGRAM, IN THE COUNTY'S DISCRETION.
 - G. THE CECSL OR INSPECTOR (PROJECT SITES LESS THAN ONE ACRE) MUST HAVE THE SKILLS TO ASSESS THE:
 - a. SITE CONDITIONS AND CONSTRUCTION ACTIVITIES THAT COULD IMPACT THE STORMWATER QUALITY.
 - b. EFFECTIVENESS OR EROSION AND SEDIMENT CONTROL MEASURES USED TO CONTROL THE QUALITY OF STORMWATER DISCHARGES.
 - H. THE CECSL OR INSPECTOR MUST EXAMINE STORMWATER VISUALLY FOR THE PRESENCE OF SUSPENDED SEDIMENT, TURBIDITY, DISCOLORATION, AND OIL SHEEN. THEY MUST EVALUATE THE EFFECTIVENESS OF BMPS AND DETERMINE IF IT IS NECESSARY TO INSTALL, MAINTAIN, OR REPAIR BMPS TO IMPROVE THE QUALITY OF STORMWATER DISCHARGES. BASED ON THE RESULTS OF THE INSPECTION, CONSTRUCTION SITE OPERATORS MUST CORRECT THE PROBLEMS IDENTIFIED BY:
 - a. REVIEWING THE SWPPP FOR COMPLIANCE WITH THE 13 CONSTRUCTION SWPPP ELEMENTS AND MAKING APPROPRIATE REVISIONS WITHIN 7 DAYS OF INSPECTION.
 - b. IMMEDIATELY BEGINNING THE PROCESS OF FULLY IMPLEMENTING AND MAINTAINING APPROPRIATE SOURCE CONTROL AND/OR TREATMENT BMPS AS SOON AS POSSIBLE, ADDRESSING THE PROBLEMS NO LATER THEN 10-DAYS AFTER THE INSPECTION. IF INSTALLATION OF NECESSARY TREATMENT BMPS IS NOT FEASIBLE WITHIN 10 DAYS, THE CONSTRUCTION SITE OPERATOR MAY REQUEST AN EXTENSION WITHIN THE INITIAL 10-DAY RESPONSE PERIOD.
 - c. DOCUMENTING BMP IMPLEMENTATION AND MAINTENANCE IN THE SITE LOG BOOK (SITES LARGER THAN 1 ACRE).
 - I. THE CECSL OR INSPECTOR MUST INSPECT ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES, ALL BMPS, AND ALL STORMWATER DISCHARGE POINTS AT LEASE ONCE EVERY CALENDAR WEEK AND WITHIN 24 HOURS OF ANY DISCHARGE FROM THE SITE.
 - J. MAINTENANCE OF THE CONSTRUCTION SWPPP. THE CONSTRUCTION SWPPP SHALL BE RETAINED ON SITE. THE CONSTRUCTION SWPPP SHALL BE MODIFIED WHENEVER THERE IS A SIGNIFICANT CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE OF ANY BMP.
- ELEMENT 13 - PROTECT LOW IMPACT DEVELOPMENT BMPS
- NOT APPLICABLE TO THIS SITE.

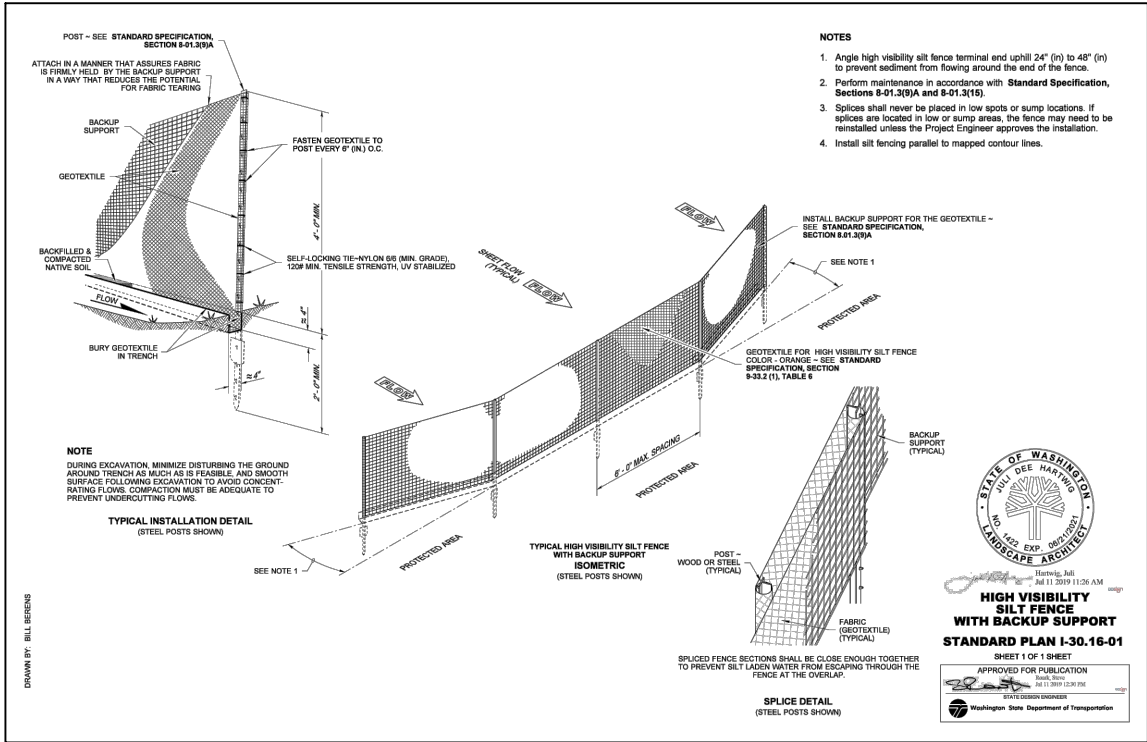
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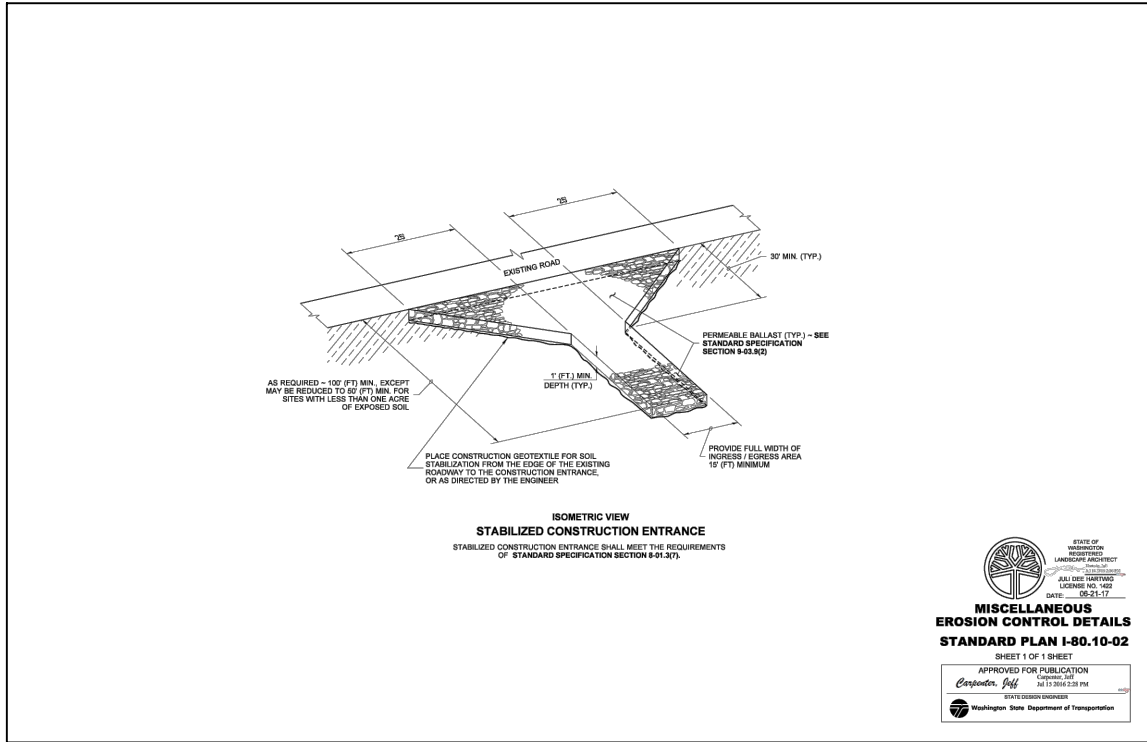
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PLAN INTENDED TO BE VIEWED IN COLOR, ADJACENT BLOCK IS "ORANGE"

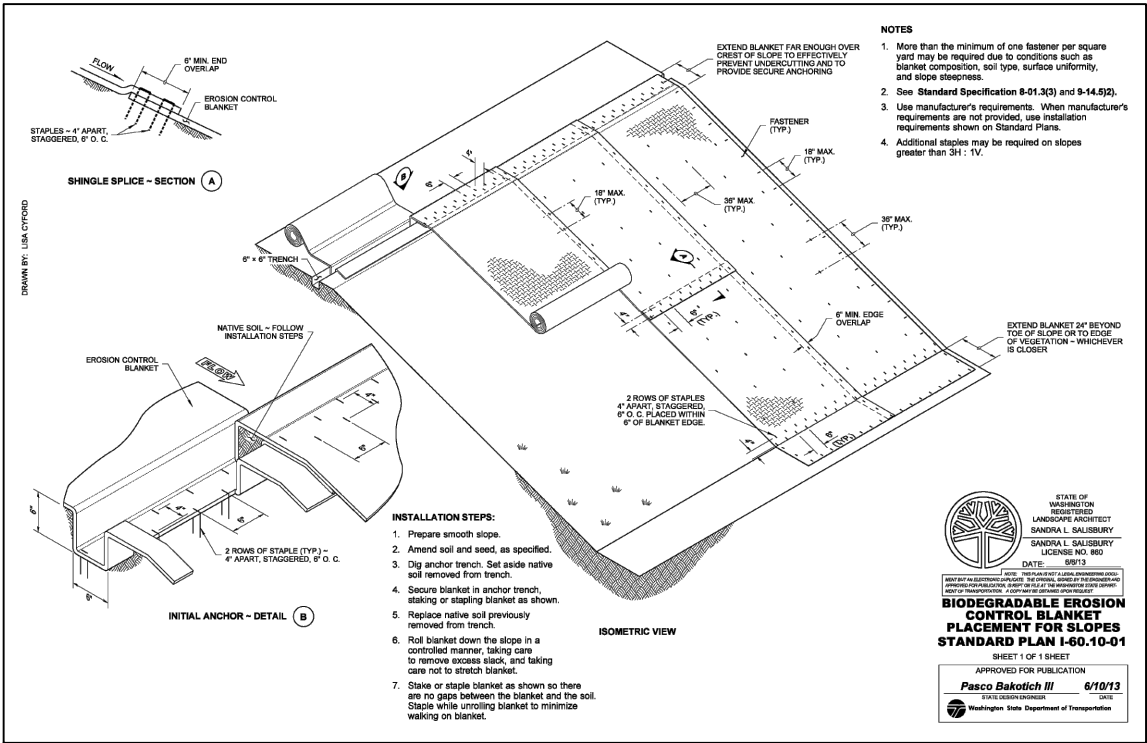
 BLUE COAST ENGINEERING	 PIERCE CONSERVATION DISTRICT <i>Over 70 Years of Conservation</i>		REVISIONS					DESIGNED BY: <u>G.CURTISS</u> DRAWN BY: <u>E.PIKIN</u> CHECKED BY: <u>K.KETTERIDGE</u> APPROVED BY: <u>J.COTE</u> SCALE: <u>AS NOTED</u> DATE: <u>JUNE 2025</u>	DEMOLAY SANDSPIT PARK NEARSHORE RESTORATION PROJECT	C-03
			REV	DATE	BY	APP'D	DESCRIPTION			
									SWPPP NOTES	SHEET # 5 OF 2



1 DETAIL: SILT FENCE
SCALE: NOT TO SCALE



2 DETAIL: STABILIZED CONSTRUCTION ENTRANCE
SCALE: NOT TO SCALE



3 DETAIL: STOCKPILE STABILIZATION
SCALE: NOT TO SCALE

100% DESIGN

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INCH SCALE ACCORDINGLY

PLAN INTENDED TO BE VIEWED
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"ORANGE"



REVISIONS					DESCRIPTION
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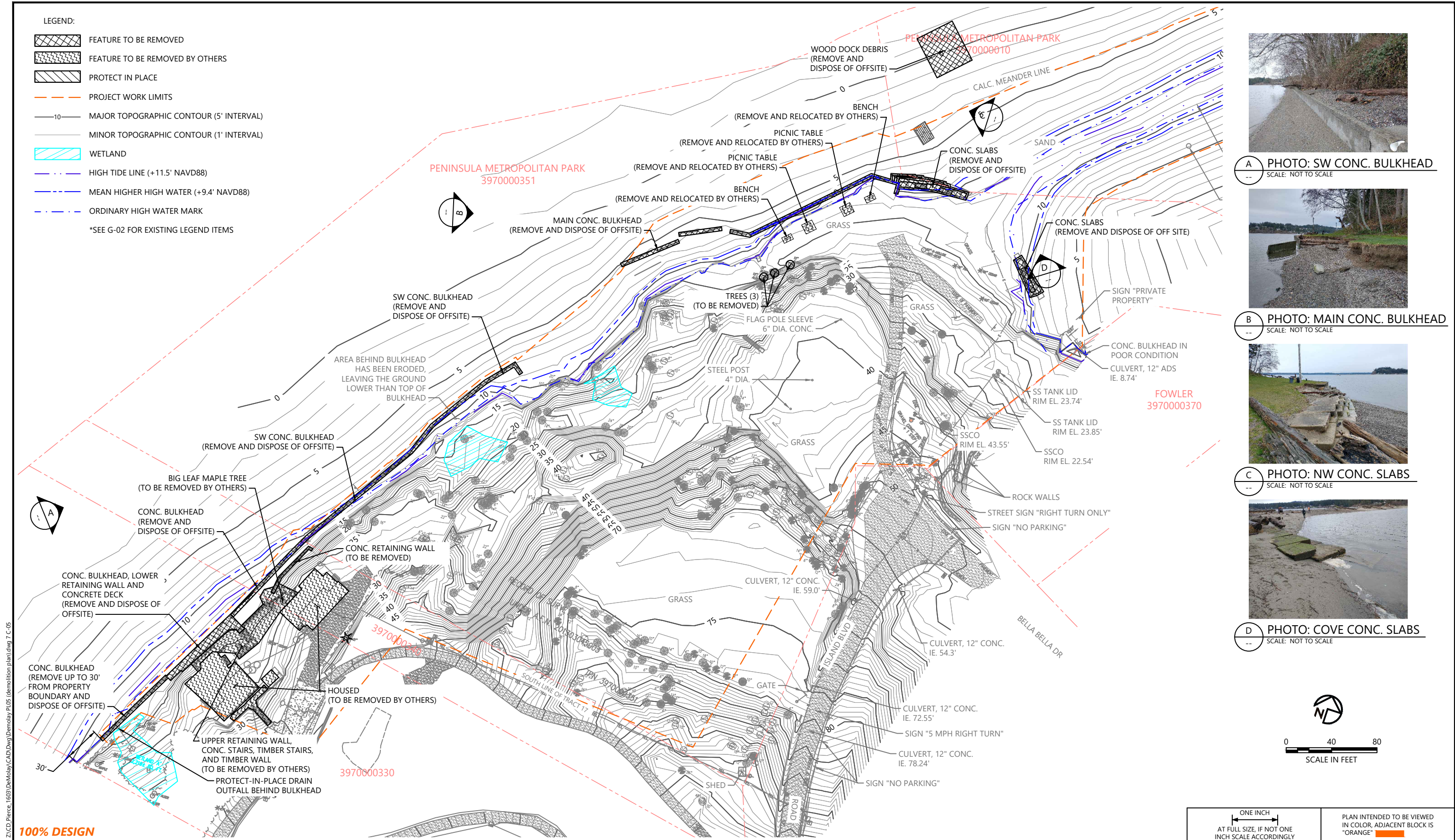
DESIGNED BY: G.CURTISS
DRAWN BY: E.PIKIN
CHECKED BY: K.KETTERIDGE
APPROVED BY: J.COTE
SCALE: AS NOTED
DATE: JUNE 2025

DEMOLAY SANDSPIT PARK
NEARSHORE RESTORATION PROJECT

TESC DETAILS

C-04

SHEET # 6 OF 23



Jun 05, 2025 5:22pm bluecoast
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REVISIONS					DESCRIPTION
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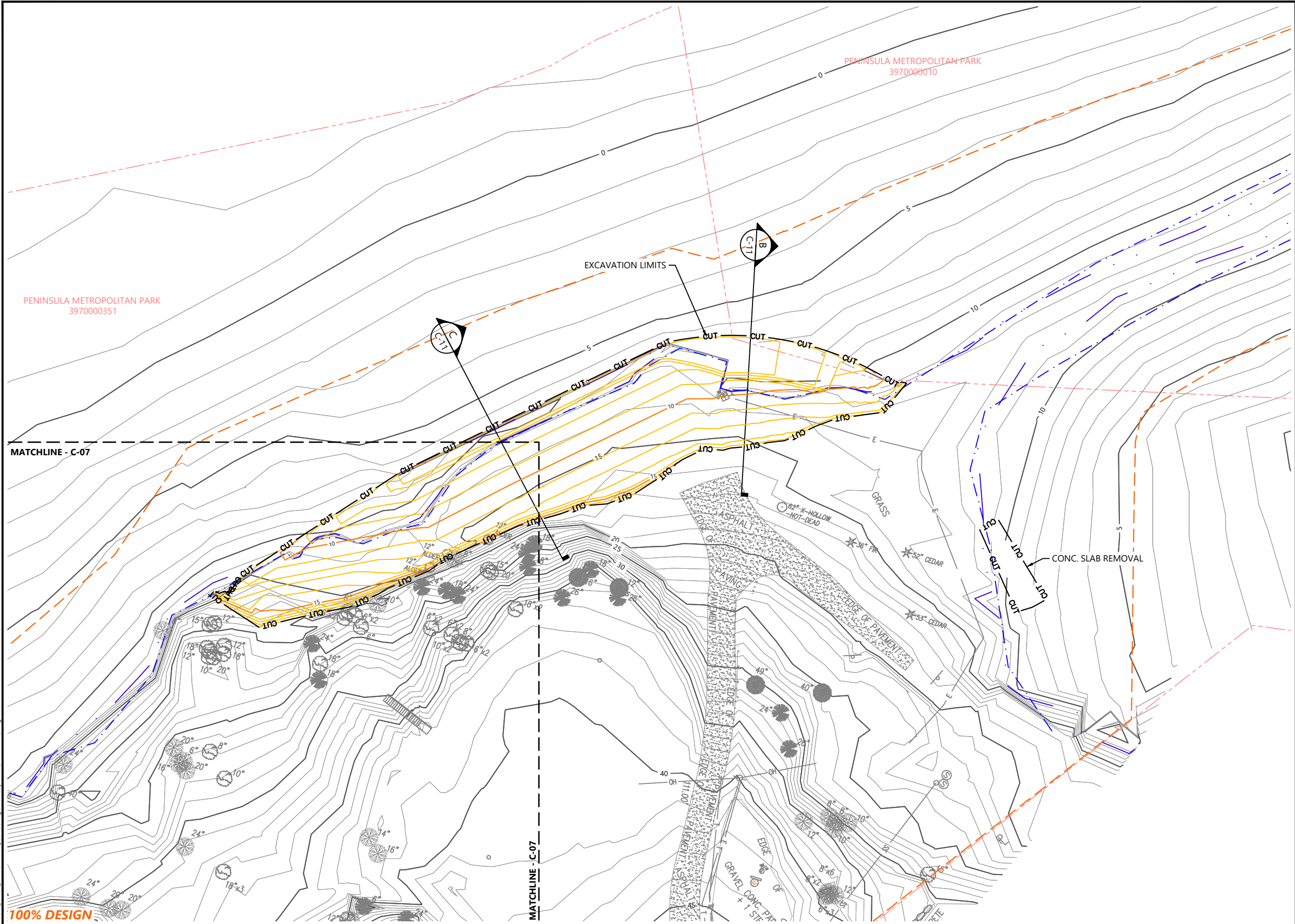
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SCALE: AS NOTED
DATE: JUNE 2025

DEMOLAY SANDSPIT PARK
NEARSHORE RESTORATION PROJECT

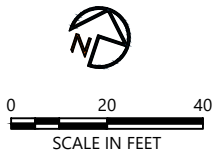
DEMOLITION PLAN

C-05

SHEET # 7 OF 23



- LEGEND:
- 10— EXISTING MAJOR TOPOGRAPHIC CONTOUR (5' INTERVAL)
 - EXISTING MINOR TOPOGRAPHIC CONTOUR (1' INTERVAL)
 - - - PROJECT WORK LIMITS
 - 10- PROPOSED MAJOR EXCAVATION CONTOUR (5' INTERVAL)
 - - - PROPOSED MINOR EXCAVATION CONTOUR (1' INTERVAL)
 - CUT - EXCAVATION LIMITS
 - - - EXISTING HIGH TIDE LINE (+11.5' NAVD88)
 - - - ORDINARY HIGH WATER MARK
- *SEE G-02 FOR EXISTING LEGEND ITEMS



ONE INCH
AT FULL SIZE, IF NOT ONE
INCH SCALE ACCORDINGLY

PLAN INTENDED TO BE VIEWED
IN COLOR, ADJACENT BLOCK IS
"ORANGE"

Jun 05, 2025 5:32pm bluecoast
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REVISIONS					DESCRIPTION
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APPROVED BY: J.COTE
SCALE: AS NOTED
DATE: JUNE 2025

DEMOLAY SANDSPIT PARK
NEARSHORE RESTORATION PROJECT

EXCAVATION PLAN (1 OF 2)

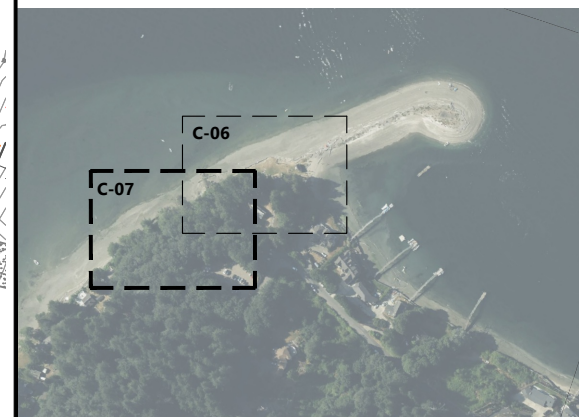
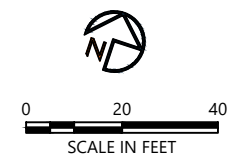
C-06

SHEET # 8 OF 23



A PHOTO: EXISTING BULKHEAD
SCALE: N.T.S.

- LEGEND:
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 - EXISTING MINOR TOPOGRAPHIC CONTOUR (1' INTERVAL)
 - PROJECT WORK LIMITS
 - 10 PROPOSED MAJOR EXCAVATION CONTOUR (5' INTERVAL)
 - PROPOSED MINOR EXCAVATION CONTOUR (1' INTERVAL)
 - CUT EXCAVATION LIMITS
 - EXISTING HIGH TIDE LINE (+11.5' NAVD88)
 - ORDINARY HIGH WATER MARK
- *SEE G-02 FOR EXISTING LEGEND ITEMS



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INCH SCALE ACCORDINGLY

PLAN INTENDED TO BE VIEWED
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"ORANGE"

100% DESIGN



REVISIONS					DESCRIPTION
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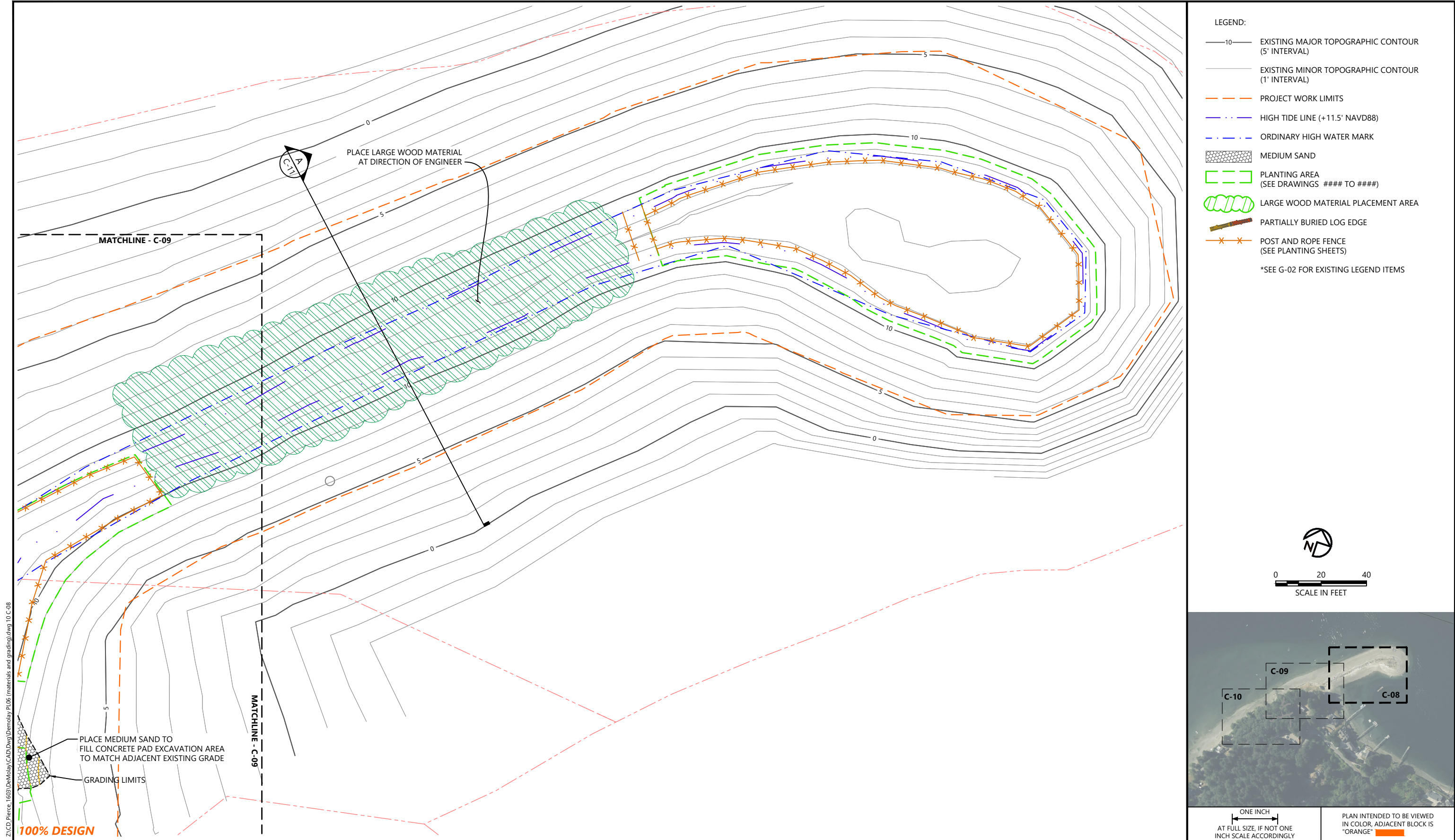
DESIGNED BY: G.CURTISS
DRAWN BY: E.PIPIKIN
CHECKED BY: K.KETTERIDGE
APPROVED BY: J.COTE
SCALE: AS NOTED
DATE: JUNE 2025

DEMOLAY SANDSPIT PARK
NEARSHORE RESTORATION PROJECT


EXCAVATION PLAN (2 OF 2)

C-07


SHEET # 9 OF 23




Jun 05, 2025 5:23pm bluecoast
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BLUE COAST
ENGINEERING



PIERCE
CONSERVATION
DISTRICT
Over 70 Years of Conservation



JESSICA A. MAGEE, COTE
STATE OF WASHINGTON
REGISTERED
PROFESSIONAL ENGINEER
6/6/2025

REVISIONS				
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APPROVED BY: J.COTE

SCALE: AS NOTED

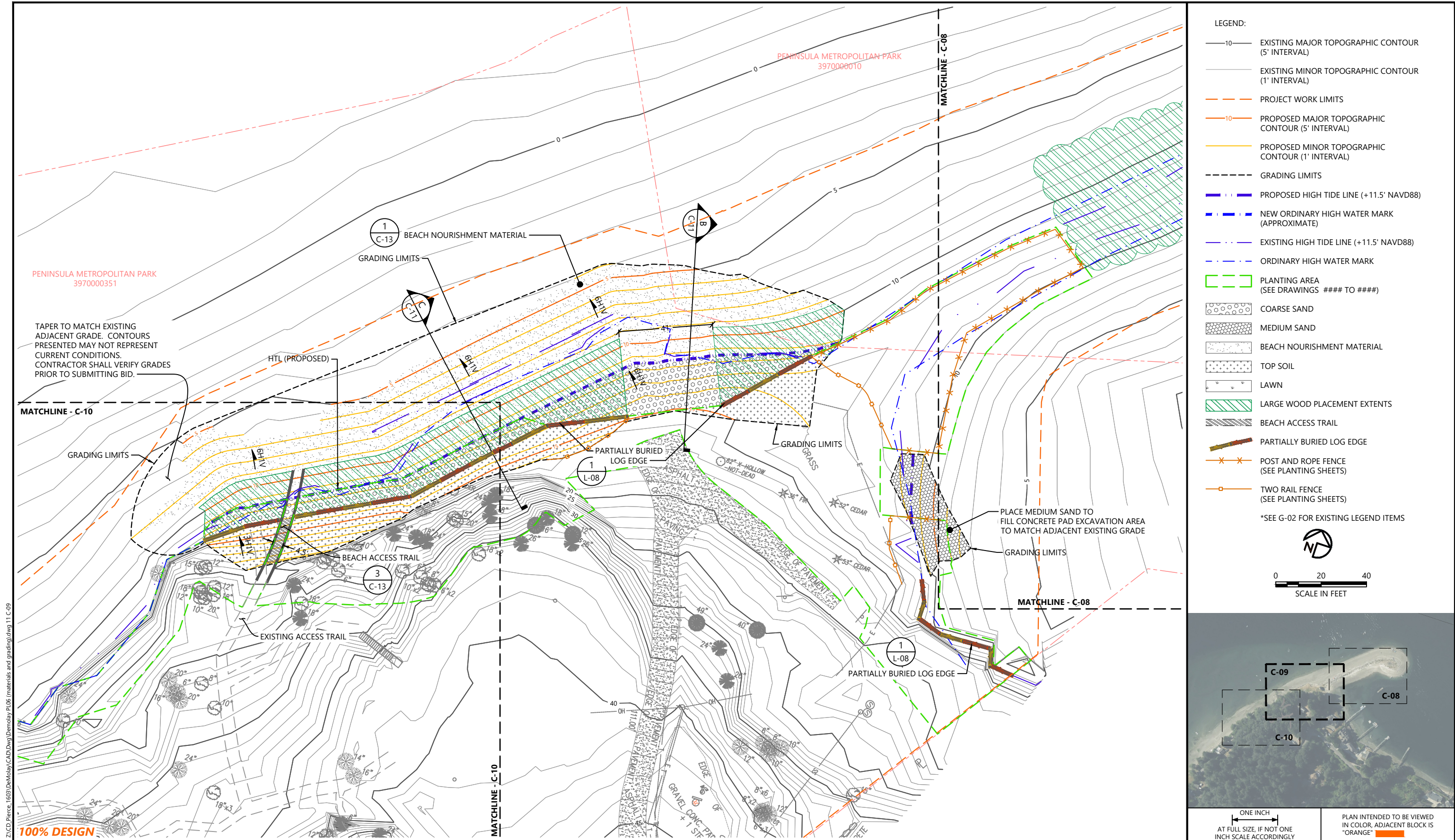
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DEMOLAY SANDSPIT PARK
NEARSHORE RESTORATION PROJECT

MATERIALS AND GRADING PLAN (1 OF 3)

C-08

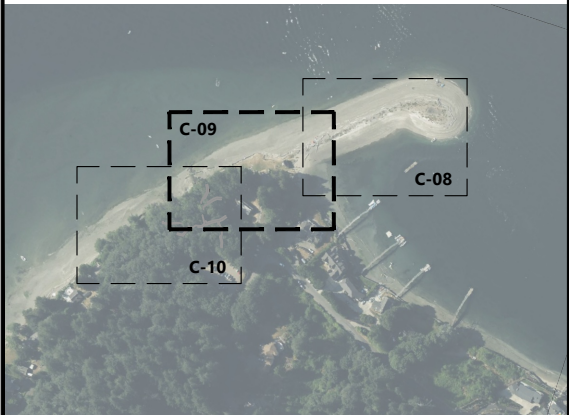
SHEET # **10** OF **23**



- LEGEND:
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 - EXISTING MINOR TOPOGRAPHIC CONTOUR (1' INTERVAL)
 - - - PROJECT WORK LIMITS
 - 10- PROPOSED MAJOR TOPOGRAPHIC CONTOUR (5' INTERVAL)
 - - - PROPOSED MINOR TOPOGRAPHIC CONTOUR (1' INTERVAL)
 - - - GRADING LIMITS
 - - - PROPOSED HIGH TIDE LINE (+11.5' NAVD88)
 - - - NEW ORDINARY HIGH WATER MARK (APPROXIMATE)
 - - - EXISTING HIGH TIDE LINE (+11.5' NAVD88)
 - - - ORDINARY HIGH WATER MARK
 - [Green dashed box] PLANTING AREA (SEE DRAWINGS ##### TO #####)
 - [Pattern] COARSE SAND
 - [Pattern] MEDIUM SAND
 - [Pattern] BEACH NOURISHMENT MATERIAL
 - [Pattern] TOP SOIL
 - [Pattern] LAWN
 - [Pattern] LARGE WOOD PLACEMENT EXTENTS
 - [Pattern] BEACH ACCESS TRAIL
 - [Pattern] PARTIALLY BURIED LOG EDGE
 - [Symbol] POST AND ROPE FENCE (SEE PLANTING SHEETS)
 - [Symbol] TWO RAIL FENCE (SEE PLANTING SHEETS)
- *SEE G-02 FOR EXISTING LEGEND ITEMS



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SCALE IN FEET



ONE INCH
AT FULL SIZE, IF NOT ONE
INCH SCALE ACCORDINGLY

PLAN INTENDED TO BE VIEWED
IN COLOR, ADJACENT BLOCK IS
"ORANGE"

Jun 05, 2025 5:32pm bluecoast
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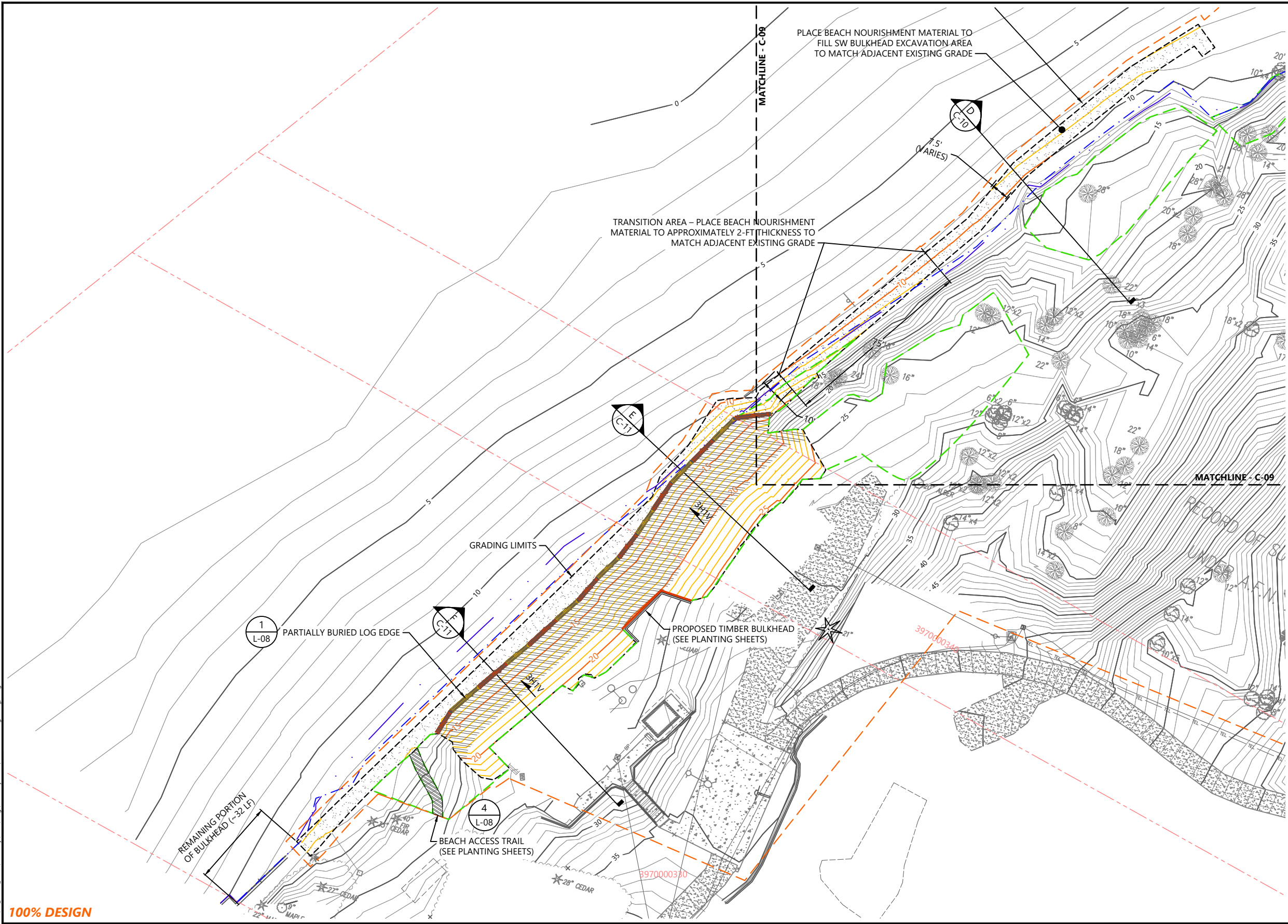
DESIGNED BY: G.CURTISS
DRAWN BY: E.PIPIKIN
CHECKED BY: K.KETTERIDGE
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SCALE: AS NOTED
DATE: JUNE 2025

DEMOLAY SANDSPIT PARK
NEARSHORE RESTORATION PROJECT

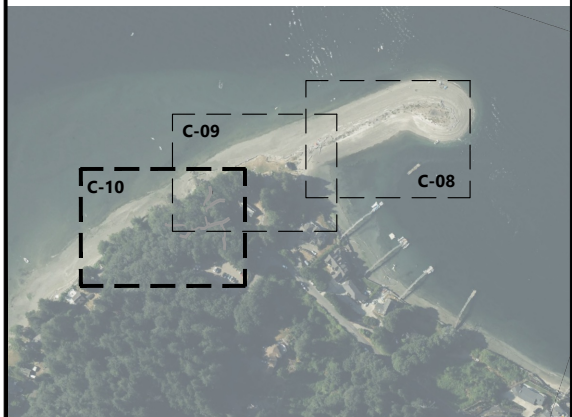
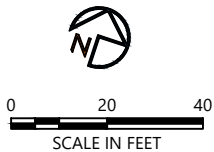
MATERIALS AND GRADING PLAN (2 OF 3)

C-09
SHEET # 11 OF 23

Jun 05, 2025 5:32pm bluecoast
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- LEGEND:
- 10 EXISTING MAJOR TOPOGRAPHIC CONTOUR (5' INTERVAL)
 - EXISTING MINOR TOPOGRAPHIC CONTOUR (1' INTERVAL)
 - PROJECT WORK LIMITS
 - 10 PROPOSED MAJOR TOPOGRAPHIC CONTOUR (5' INTERVAL)
 - PROPOSED MINOR TOPOGRAPHIC CONTOUR (1' INTERVAL)
 - GRADING LIMITS
 - PROPOSED HIGH TIDE LINE (+11.5' NAVD88)
 - NEW ORDINARY HIGH WATER MARK (APPROXIMATE)
 - EXISTING HIGH TIDE LINE (+11.5' NAVD88)
 - ORDINARY HIGH WATER MARK
 - PLANTING AREA (SEE DRAWINGS ####TO ####)
 - COARSE SAND
 - BEACH NOURISHMENT MATERIAL
 - PLACED NATIVE MATERIAL
 - TOP SOIL
 - PARTIALLY BURIED LOG EDGE
- *SEE G-02 FOR EXISTING LEGEND ITEMS



ONE INCH
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INCH SCALE ACCORDINGLY

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REVISIONS					DESCRIPTION
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CHECKED BY: K.KETERIDGE
APPROVED BY: J.COTE
SCALE: AS NOTED
DATE: JUNE 2025

DEMOLAY SANDSPIT PARK
NEARSHORE RESTORATION PROJECT

MATERIALS AND GRADING PLAN (3 OF 3)

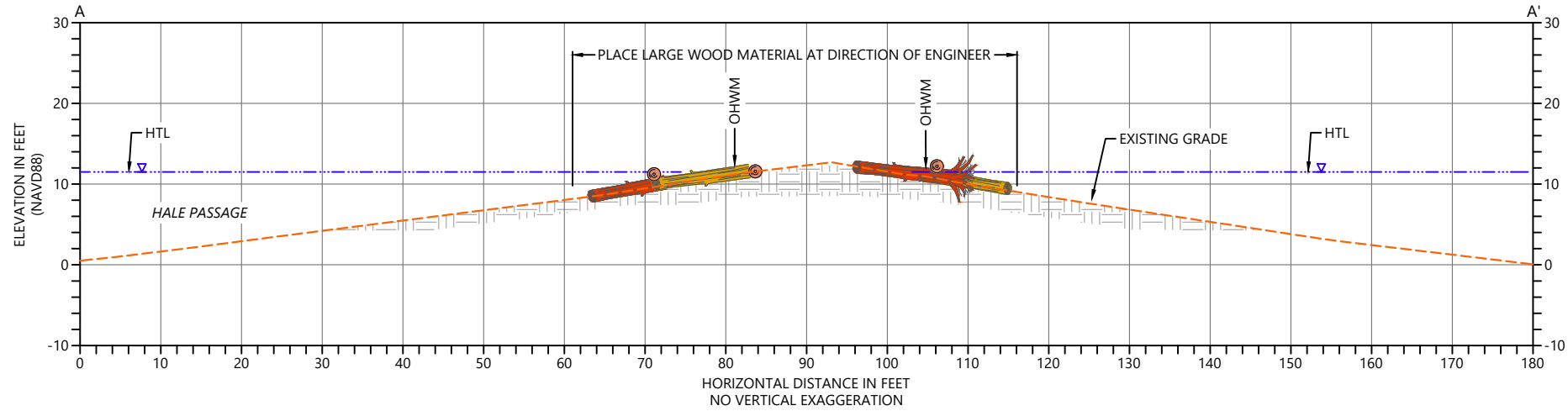
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SHEET # 12 OF 23

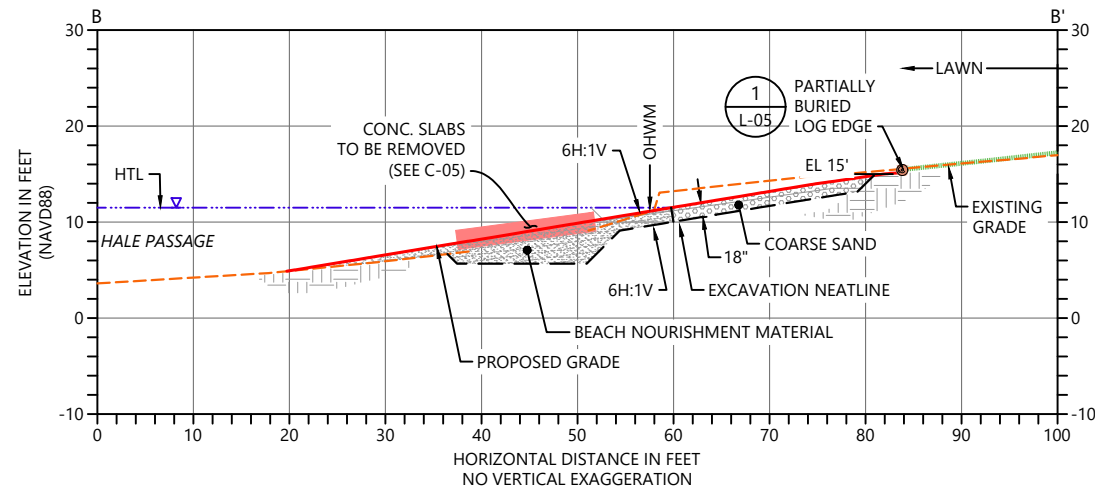
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100% DESIGN

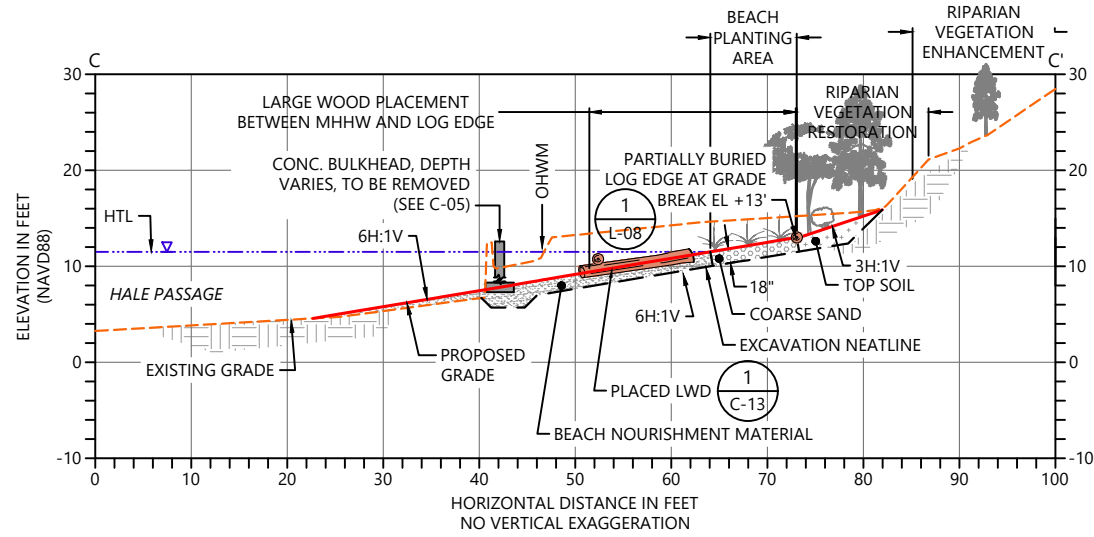
- LEGEND:
- EXISTING GRADE
 - PROPOSED GRADE
 - EXCAVATION NEATLINE
 - HIGH TIDE LINE (+11.5' NAVD88)
 - BEACH NOURISHMENT MATERIAL
 - COARSE SAND
 - TOPSOIL



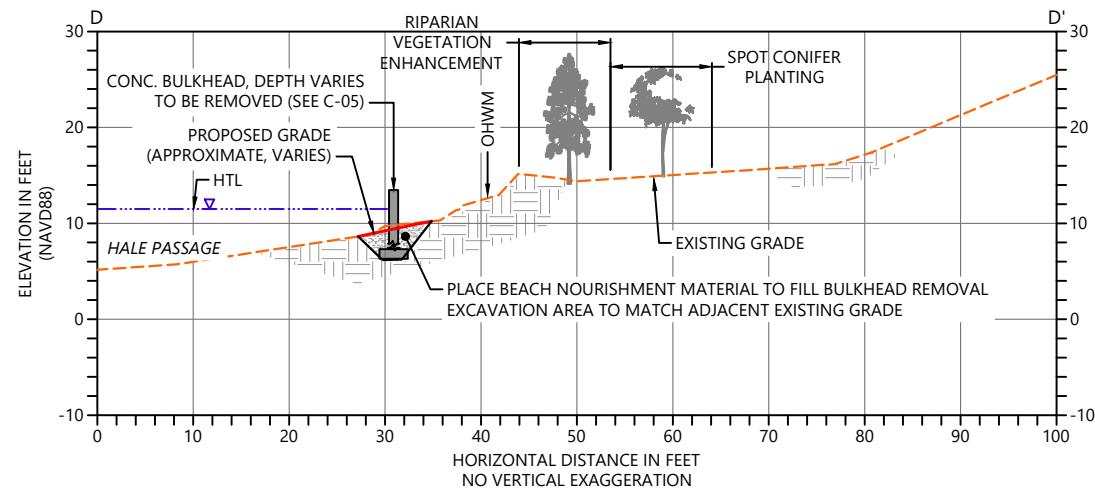
A SECTION
C-08 SCALE: 1" = 10'



B SECTION
C-09 SCALE: 1" = 10'



C SECTION
C-09 SCALE: 1" = 10'



D SECTION
C-10 SCALE: 1" = 10'

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SCALE IN FEET

ONE INCH
AT FULL SIZE, IF NOT ONE
INCH SCALE ACCORDINGLY

PLAN INTENDED TO BE VIEWED
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"ORANGE"

DEMOLAY SANDSPIT PARK
NEARSHORE RESTORATION PROJECT

GRADING CROSS-SECTIONS
(A-A' THRU D-D')

C-11

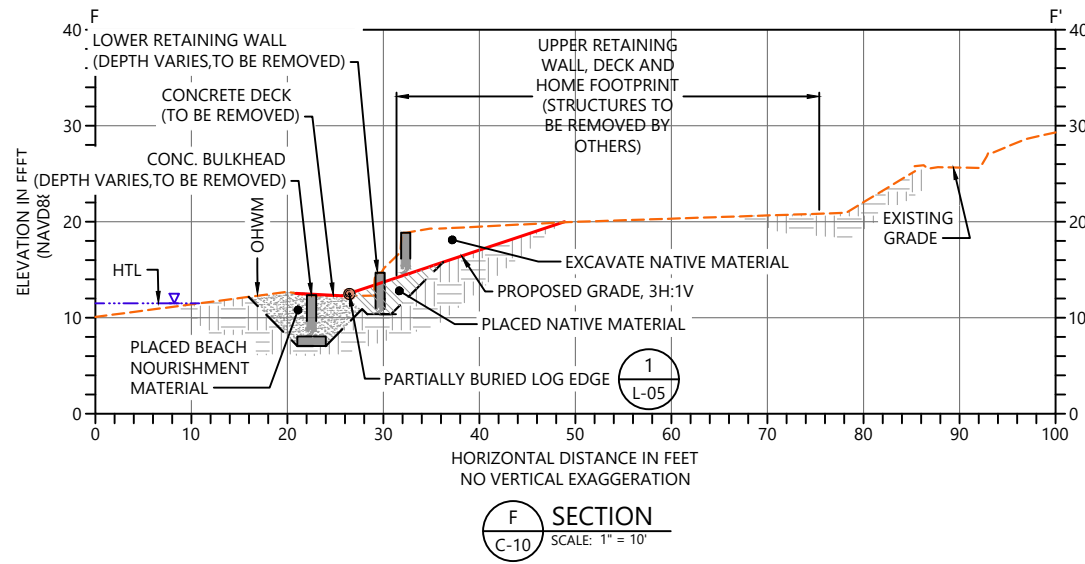
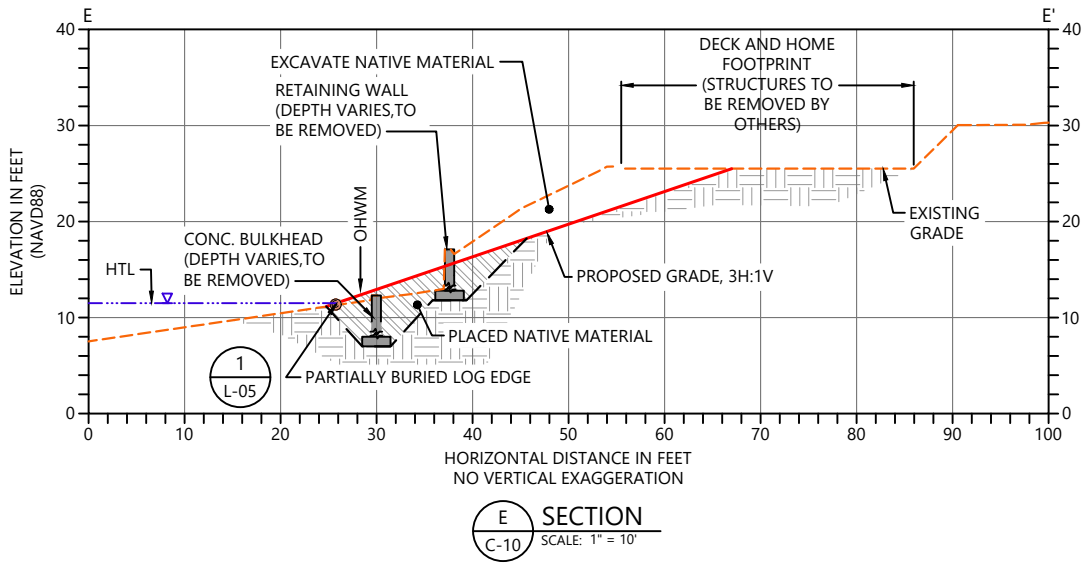
SHEET # 13 OF 23



REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION

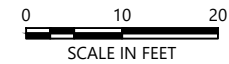
DESIGNED BY: G.CURTISS
DRAWN BY: E.PIKIN
CHECKED BY: K.KETERIDGE
APPROVED BY: J.COTE
SCALE: AS NOTED
DATE: JUNE 2025

Jun 05, 2025 5:23pm bluecoast Z:\CD_Pierce_1603\DeMolay\CAD\Draw\Demolay PL06 (materials and grading) dwg 14 C-12



LEGEND:

- EXISTING GRADE
- PROPOSED GRADE
- EXCAVATION NEATLINE
- HIGH TIDE LINE (+11.5' NAVD88)
- BEACH NOURISHMENT MATERIAL
- NATIVE MATERIAL
- COARSE SAND
- TOPSOIL



100% DESIGN

ONE INCH
AT FULL SIZE, IF NOT ONE
INCH SCALE ACCORDINGLY

PLAN INTENDED TO BE VIEWED
IN COLOR, ADJACENT BLOCK IS
"ORANGE"



REVISIONS					
REV	DATE	BY	APP'D	DESCRIPTION	

DESIGNED BY: G.CURTISS
DRAWN BY: E.PIPKIN
CHECKED BY: K.KETTERIDGE
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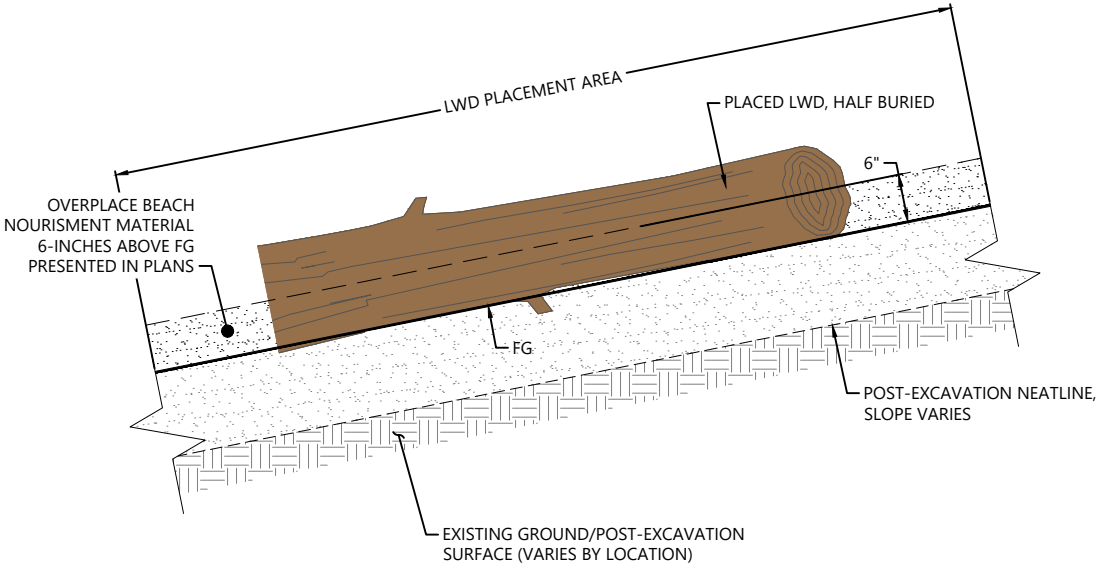
DEMOLAY SANDSPIT PARK
NEARSHORE RESTORATION PROJECT

GRADING CROSS-SECTIONS (F-F' & G-G')

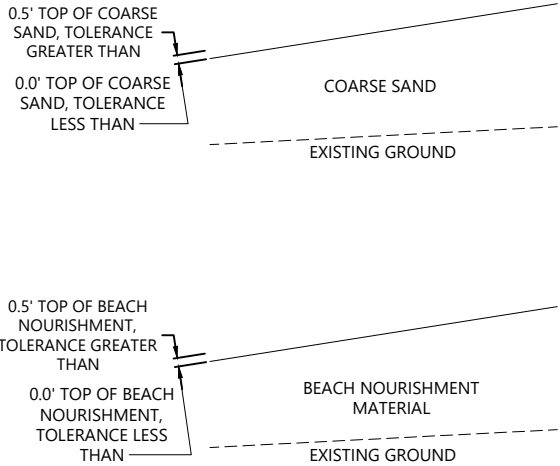
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SHEET # 14 OF 23

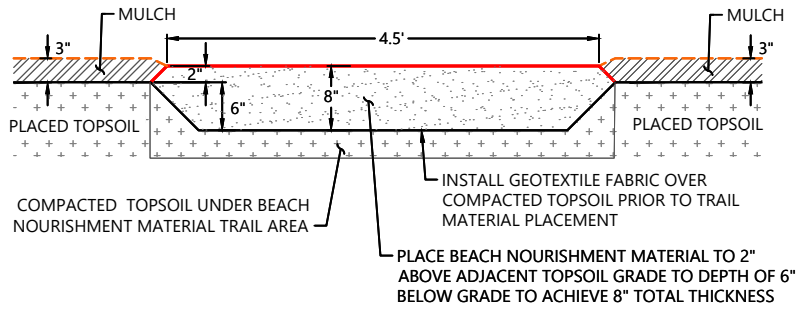
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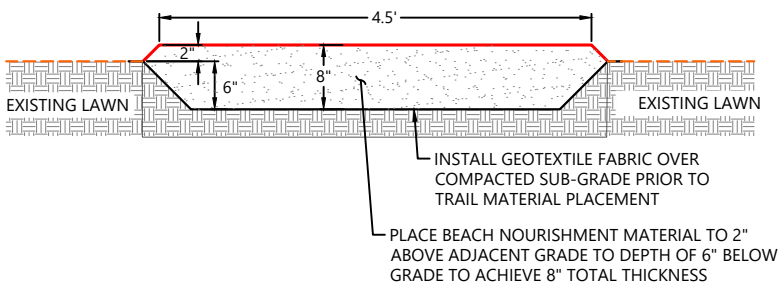
1 BEACH NOURISHMENT MATERIAL IN LWD AREA
C-09 SCALE: N.T.S.



2 MATERIAL PLACEMENT PAYMENT TOLERANCES
C-11 SCALE: N.T.S.



3 BEACH ACCESS TRAIL DETAIL
C-09 SCALE: N.T.S.



4 BEACH ACCESS TRAIL DETAIL
C-10 SCALE: N.T.S.

100% DESIGN

ONE INCH
AT FULL SIZE, IF NOT ONE
INCH SCALE ACCORDINGLY

PLAN INTENDED TO BE VIEWED
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REVISIONS					
REV	DATE	BY	APP'D	DESCRIPTION	

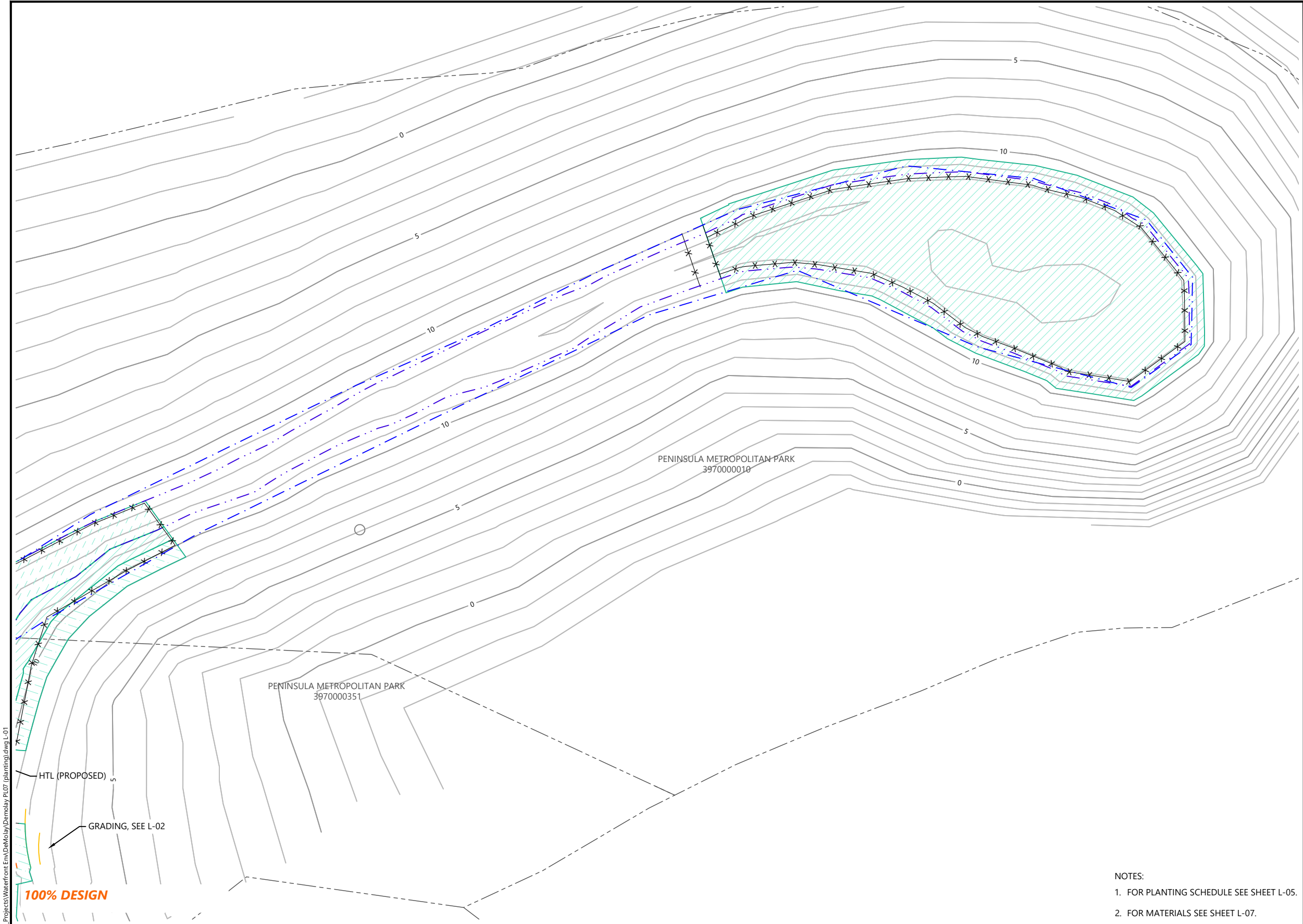
DESIGNED BY: G.CURTISS
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DEMOLAY SANDSPIT PARK
NEARSHORE RESTORATION PROJECT

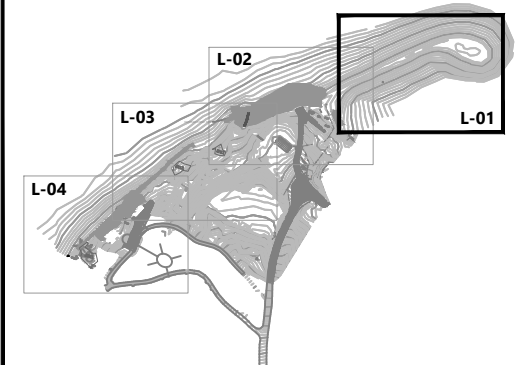
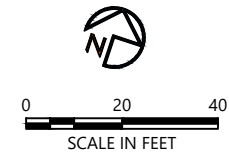
GRADING DETAILS

C-13

SHEET # 15 OF 23



- LEGEND:
- 10— EXISTING MAJOR TOPOGRAPHIC CONTOUR (5' INTERVAL)
 - EXISTING MINOR TOPOGRAPHIC CONTOUR (1' INTERVAL)
 - . - . - HIGH TIDE LINE (+11.5' NAVD88)
 - - - - ORDINARY HIGH WATER MARK



- NOTES:
1. FOR PLANTING SCHEDULE SEE SHEET L-05.
 2. FOR MATERIALS SEE SHEET L-07.

ONE INCH
AT FULL SIZE, IF NOT ONE
INCH SCALE ACCORDINGLY

PLAN INTENDED TO BE VIEWED
IN COLOR, ADJACENT BLOCK IS
"ORANGE"

Apr 02, 2025 1:26pm caby
D:\Projects\Waterfront Env\Demolay\Demolay PLOT (planting).dwg L-01



REVISIONS					
REV	DATE	BY	APP'D	DESCRIPTION	

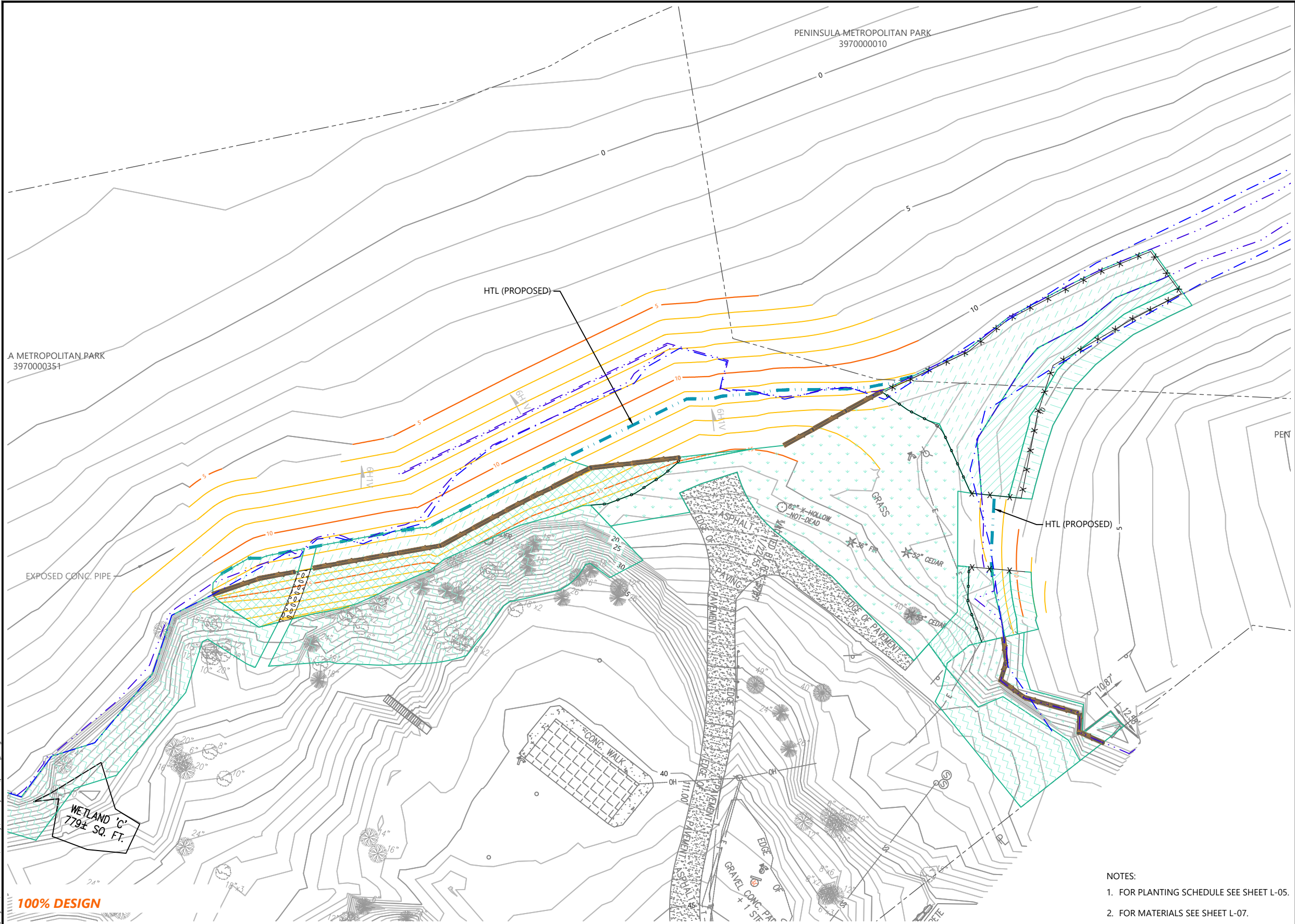
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DRAWN BY: C. TAYLOR
CHECKED BY: G. SASSEN
APPROVED BY: G. SASSEN
SCALE: AS NOTED
DATE: MARCH 2025

**DEMOLAY SANDSPIT PARK
NEARSHORE RESTORATION PROJECT**

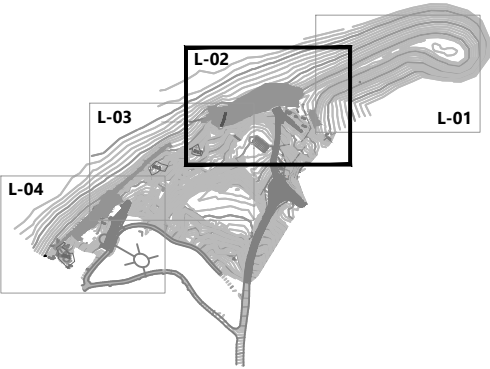
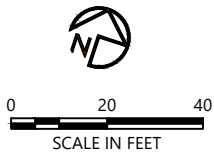
PLANTING PLAN (1 OF 4)

L-01

SHEET # **16** OF **23**



- LEGEND:
- 10 EXISTING MAJOR TOPOGRAPHIC CONTOUR (5' INTERVAL)
 - EXISTING MINOR TOPOGRAPHIC CONTOUR (1' INTERVAL)
 - 10 PROPOSED MAJOR TOPOGRAPHIC CONTOUR (5' INTERVAL)
 - PROPOSED MINOR TOPOGRAPHIC CONTOUR (1' INTERVAL)
 - PROPOSED HIGH TIDE LINE (+11.5' NAVD88)
 - EXISTING HIGH TIDE LINE (+11.5' NAVD88)
 - ORDINARY HIGH WATER MARK



- NOTES:
- FOR PLANTING SCHEDULE SEE SHEET L-05.
 - FOR MATERIALS SEE SHEET L-07.

ONE INCH
AT FULL SIZE, IF NOT ONE
INCH SCALE ACCORDINGLY

PLAN INTENDED TO BE VIEWED
IN COLOR, ADJACENT BLOCK IS
"ORANGE"

DEMOLAY SANDSPIT PARK
NEARSHORE RESTORATION PROJECT

PLANTING PLAN (2 OF 4)

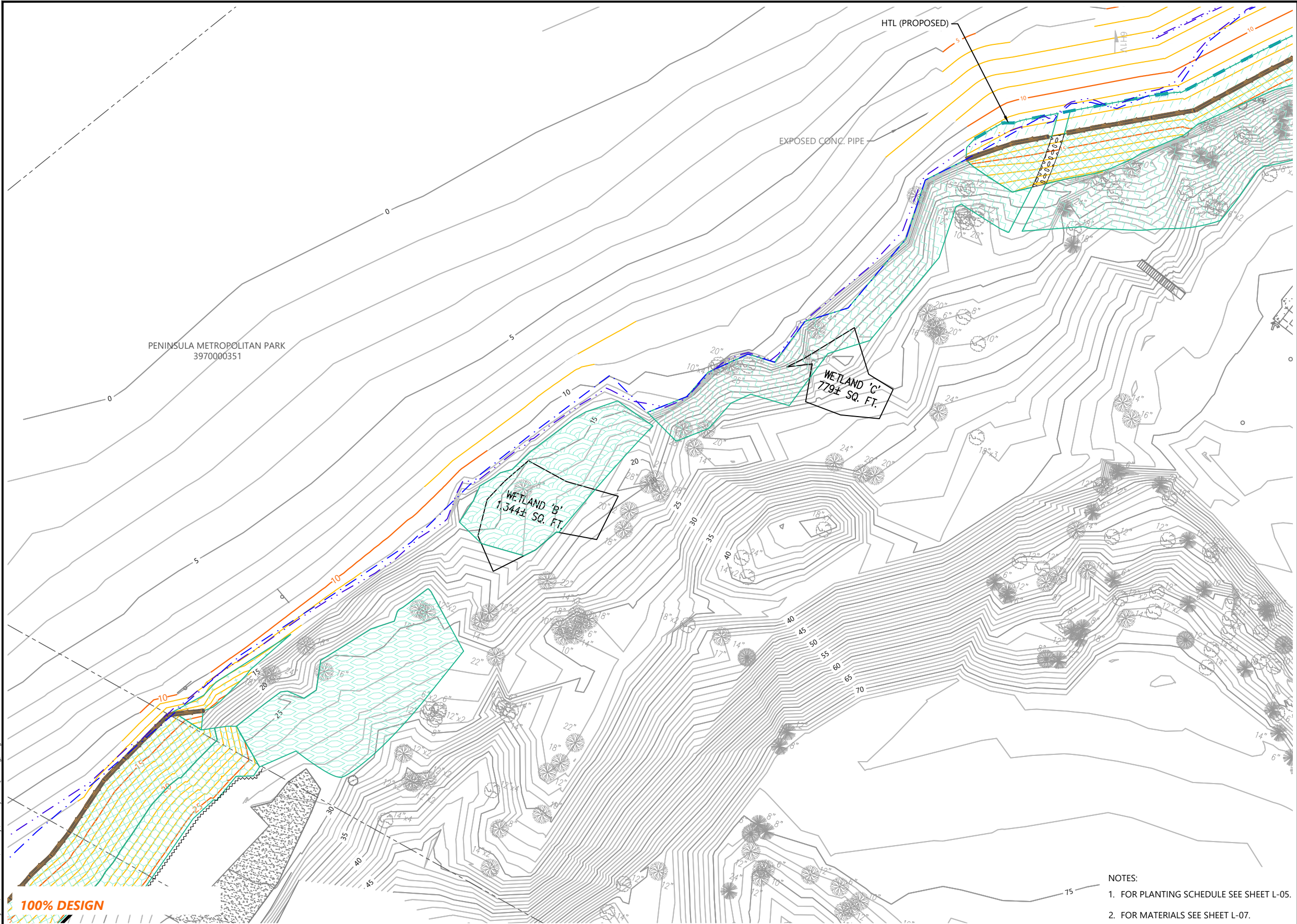
L-02

SHEET # 17 OF 23

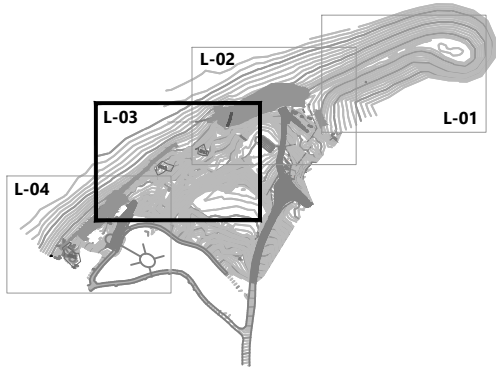
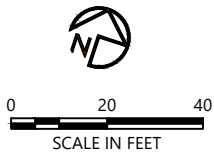
REVISIONS					DESCRIPTION
REV	DATE	BY	APP'D		

DESIGNED BY: G. SASSEN
DRAWN BY: C. TAYLOR
CHECKED BY: G. SASSEN
APPROVED BY: G. SASSEN
SCALE: AS NOTED
DATE: MARCH 2025





- LEGEND:
- 10 EXISTING MAJOR TOPOGRAPHIC CONTOUR (5' INTERVAL)
 - EXISTING MINOR TOPOGRAPHIC CONTOUR (1' INTERVAL)
 - 10 PROPOSED MAJOR TOPOGRAPHIC CONTOUR (5' INTERVAL)
 - PROPOSED MINOR TOPOGRAPHIC CONTOUR (1' INTERVAL)
 - PROPOSED HIGH TIDE LINE (+11.5' NAVD88)
 - EXISTING HIGH TIDE LINE (+11.5' NAVD88)
 - ORDINARY HIGH WATER MARK



- NOTES:
- FOR PLANTING SCHEDULE SEE SHEET L-05.
 - FOR MATERIALS SEE SHEET L-07.

ONE INCH
AT FULL SIZE, IF NOT ONE
INCH SCALE ACCORDINGLY

PLAN INTENDED TO BE VIEWED
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DEMOLAY SANDSPIT PARK
NEARSHORE RESTORATION PROJECT

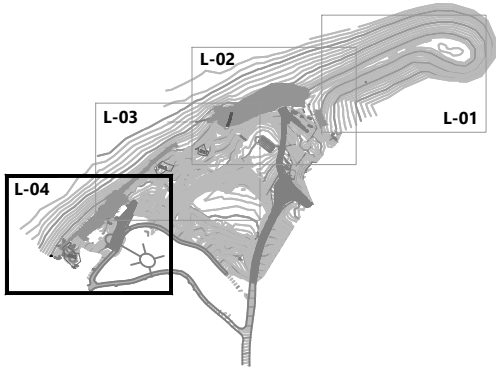
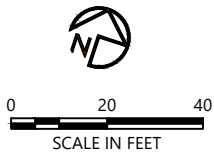
PLANTING PLAN (3 OF 4)

L-03

SHEET # 18 OF 23



- LEGEND:
- 10 EXISTING MAJOR TOPOGRAPHIC CONTOUR (5' INTERVAL)
 - EXISTING MINOR TOPOGRAPHIC CONTOUR (1' INTERVAL)
 - 10 PROPOSED MAJOR TOPOGRAPHIC CONTOUR (5' INTERVAL)
 - PROPOSED MINOR TOPOGRAPHIC CONTOUR (1' INTERVAL)
 - PROPOSED HIGH TIDE LINE (+11.5' NAVD88)
 - EXISTING HIGH TIDE LINE (+11.5' NAVD88)
 - ORDINARY HIGH WATER MARK



- NOTES:
- FOR PLANTING SCHEDULE SEE SHEET L-05.
 - FOR MATERIALS SEE SHEET L-07.

ONE INCH
AT FULL SIZE, IF NOT ONE
INCH SCALE ACCORDINGLY

PLAN INTENDED TO BE VIEWED
IN COLOR, ADJACENT BLOCK IS
"ORANGE"

100% DESIGN

DEMOLAY SANDSPIT PARK
NEARSHORE RESTORATION PROJECT

PLANTING PLAN (4 OF 4)

L-04

SHEET # 19 OF 23

REVISIONS					DESCRIPTION
REV	DATE	BY	APP'D		

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APPROVED BY: G. SASSEN
SCALE: AS NOTED
DATE: MARCH 2025



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	SCIENTIFIC NAME	COMMON NAME	SIZE	QUANTITIES	SPACING	NOTES	
	UPLAND VEGETATION RESTORATION AREA (100% OF AREA PLANTED)						
	Trees						
	Picea sitchensis Pseudotsuga menziesii	Sitka Spruce Douglas Fir	5 gal.	17	10' O.C.	Equal mix of species	
	Shrubs & Groundcovers						
	Amelanchier alnifolia Corylus cornuta Holodiscus discolor	Serviceberry Beaked Hazelnut Oceanspray	5 gal.	70	7' O.C.	Equal mix of species; Plant upper 50% of slope	
	Ribes sanguineum Mahonia Aquifolium Symphoricarpos albus	Red-flowering Currant Oregon Grape Snowberry	2 gal.	116	5' O.C.	Equal mix of species; Plant lower 50% of slope	
	Ribes sanguineum Mahonia Aquifolium Symphoricarpos albus	Red-flowering Currant Oregon Grape Snowberry	2 gal.	15	5' O.C.	Equal mix of species	
	UPLAND VEGETATION ENHANCEMENT AREA (APPROX. 25% OF AREA PLANTED) ¹						
	Trees						
	Acer circinatum	Vine Maple	5 gal.	10	15' O.C.		
	Tsuga heterophylla	Western Hemlock	5 gal.	12	15' O.C.		
	Thuja plicata	Western Red Cedar	5 gal.	12	15' O.C.		
	Shrubs & Groundcovers						
	Corylus cornuta	Beaked Hazelnut	2 gal.	14	7' O.C.		
	Rosa gymnocarpa	Bald-hip Rose	2 gal.	31	4' O.C.		
	Rubus spectabilis	Salmonberry	2 gal.	36	4' O.C.		
	Symphoricarpos albus	Snowberry	2 gal.	31	4' O.C.		
	Polystichum monitum	Sword Fern	1 gal.	36	4' O.C.		
		UPLAND SUPPLEMENTAL CONIFEROUS TREE PLANTING					
	Trees*						
	Abies grandis Picea sitchensis Pseudotsuga menziesii	Grand Fir Sitka Spruce Douglas Fir	5 gal.	16	15' O.C.	Equal mix of species	
	Thuja plicata Tsuga heterophylla	Western Red Cedar Western Hemlock	5 gal.	11	15' O.C.	Equal mix of species	
	* Plants may be container grown or bare root						
	SLOPE ENHANCEMENT AREA						
	Salix hookeriana	Hooker's Willow	4'Livestake	219	2' O.C.		
	BEACH TRANSITION AREA – ELEVATION 11.5' TO 13' (80% OF AREA PLANTED)						
	Aster subspicatus Leymus mollis Fragaria chiloensis	Douglas Aster American Dunegrass Beach Strawberry	4" pot 1 gal. 4" pot	502	3' O.C. 2' O.C. 3' O.C.	Equal mix of species	
	UPPER BEACH – ELEVATION 10.5' TO 11.5' (50% OF AREA PLANTED)						
		Ambrosia chamissonis Dechampsia cespitosa Grindelia integrifolia Leymus mollis	Silverburr Tufted Hairgrass Puget Sound Gumweed American Dunegrass	10 Cu-In plug 1 gal. 1 gal. 1 gal.	1713	2' O.C.	Equal mix of species
LOWER BEACH ENHANCEMENT – ELEVATION 9' TO 10.5' (80% OF AREA PLANTED)							
		Distichlis spicata Jaumea carnosa Salicornia virginica	Saltgrass Fleshy Jaumea Pickleweed	10 Cu-In plug	316	2' O.C.	Equal mix of species
		LAWN HYDROSEED					
		Ecology Lawn Mix	See Specs.	7,140 sf			

¹PLANT 50% OF AREA AT COVE TO EAST PROPERTY LINE AS SHOWN ON L-02.

CLEARING LEGEND:



REMOVE INVASIVE VEGETATION INCLUDING HIMALAYAN BLACKBERRY & ENGLISH IVY. MOSTLY SPOT CLEARING; HANDHELD TOOLS. CLEARING OF LARGER STANDS OF INVASIVE PLANTS WITH LARGER EQUIPMENT SUBJECT TO APPROVAL.



SPOT CLEARING WITH HANDHELD TOOLS ONLY



CLEAR ENTIRE AREA

SELECTIVE CLEARING - REMOVAL OF NON-NATIVE VEGETATION NOTES:

- SEE SHEET C-05 - DEMOLITION PLAN FOR GENERAL CLEARING.
- CLEARING WORK OUTSIDE THE PROPOSED GRADING LIMITS SHALL INCLUDE SELECTIVE CLEARING AND GRUBBING OF NON-NATIVE VEGETATION ONLY (SEE SPECIFICATIONS).
- NON-NATIVE INVASIVE SHRUBS, SUCH AS HIMALAYAN BLACKBERRY AND ENGLISH IVY SHALL BE HAULED TO A WASTE SITE OBTAINED BY THE CONTRACTOR (SEE SPECIFICATIONS).

100% DESIGN



REVISIONS					
REV	DATE	BY	APP'D	DESCRIPTION	

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CHECKED BY: G. SASSEN
APPROVED BY: G. SASSEN
SCALE: AS NOTED
DATE: MARCH 2025

DEMOLAY SANDSPIT PARK
NEARSHORE RESTORATION PROJECT

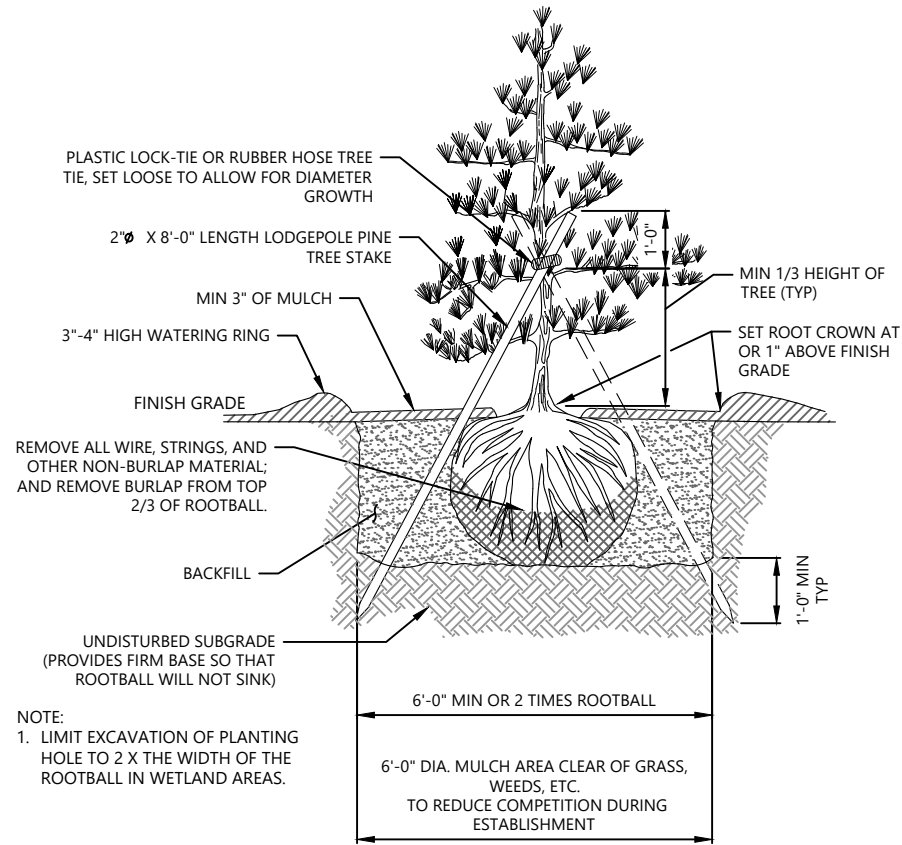
PLANTING SCHEDULE AND
ADDITIONAL CLEARING NOTES

L-05

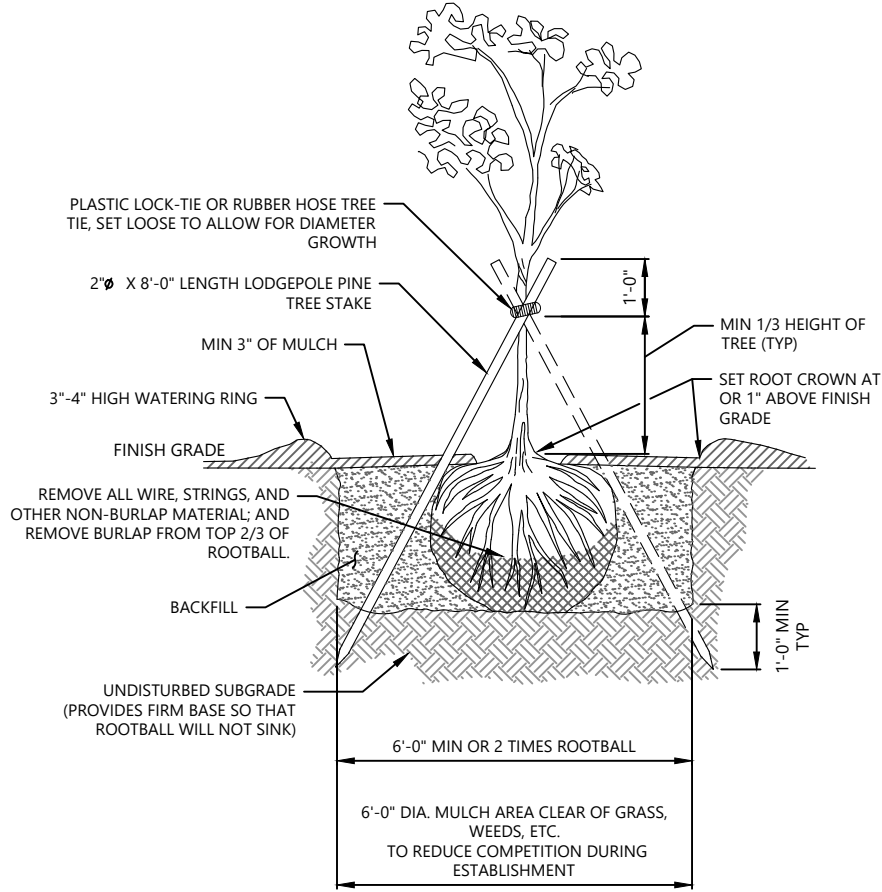
SHEET # 20 OF 23

ONE INCH
AT FULL SIZE, IF NOT ONE
INCH SCALE ACCORDINGLY

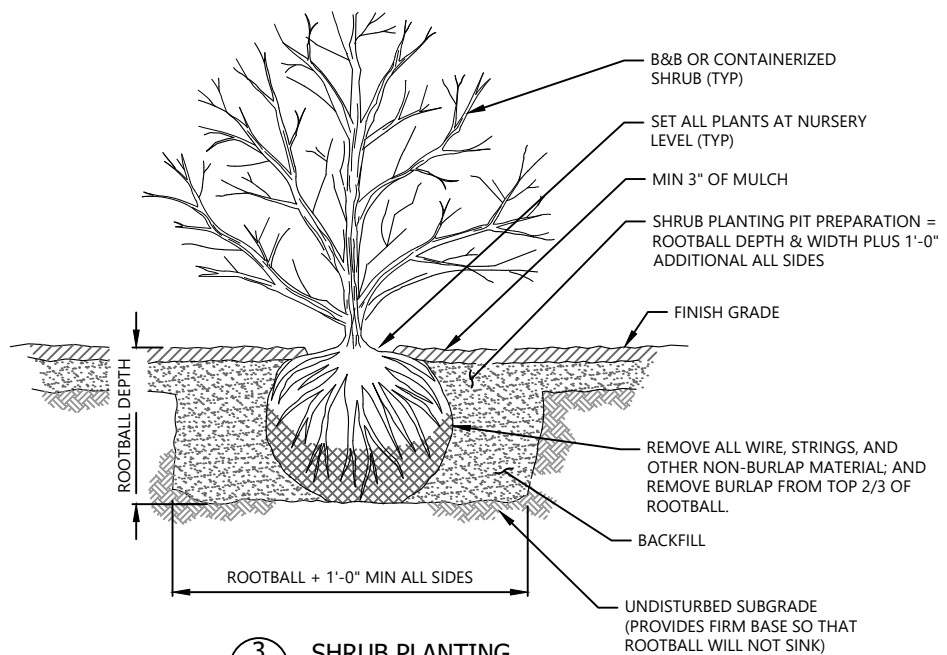
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IN COLOR, ADJACENT BLOCK IS
"ORANGE"



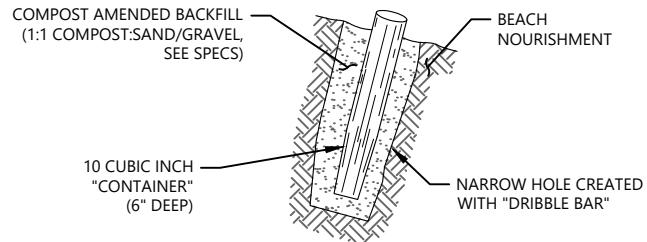
1 CONIFEROUS TREE PLANTING
Scale: NTS



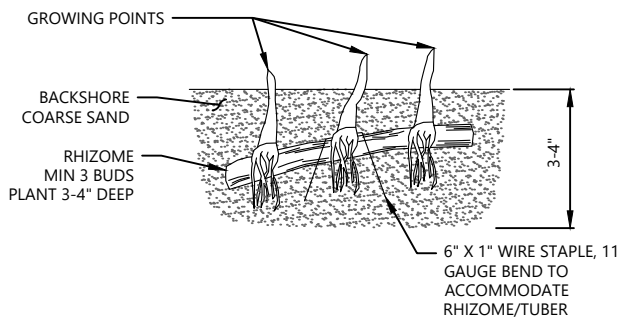
2 DECIDUOUS TREE PLANTING
Scale: NTS



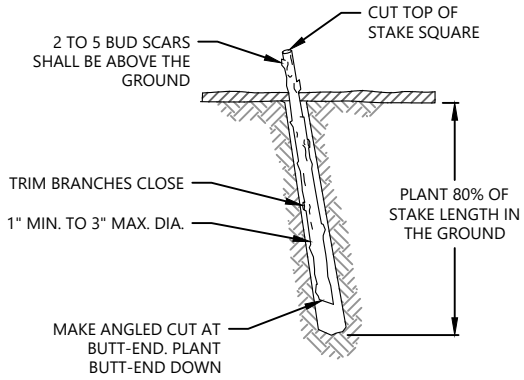
3 SHRUB PLANTING
Scale: NTS



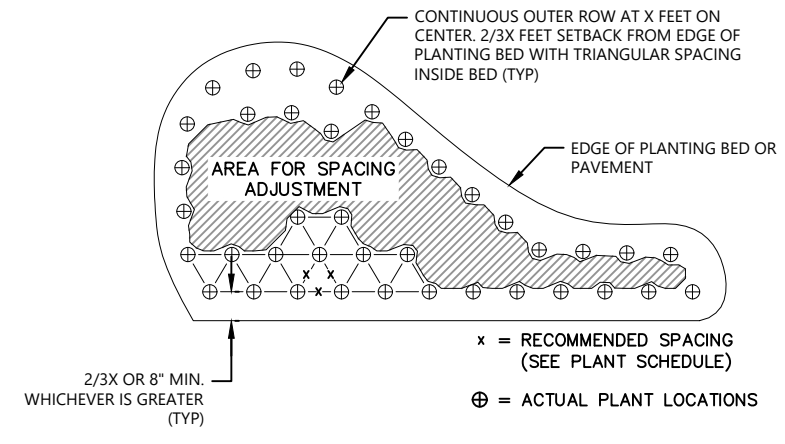
4 EMERGENT & HERBACEOUS PERENNIAL PLANTING
Scale: NTS



5 BEACH GRASS PLANTING
Scale: NTS



6 LIVE STAKE PLANTING
Scale: NTS



7 PLANTING PATTERN
Scale: NTS

NOTES:
1. PLACE TOPSOIL TYPE A, COMPOST, EROSION CONTROL FABRIC AND MULCH IN AREAS INDICATED ON SHEET L-07.
2. BACKFILL PLANTING HOLES WITH NATIVE SOIL AND PLACE MULCH RING IN THE UPLAND VEGETATION ENHANCEMENT & THE UPLAND SUPPLEMENTAL CONIFEROUS TREE PLANTING AREA; EXCEPT IN DESIGNATED WETLANDS.

ONE INCH
AT FULL SIZE, IF NOT ONE
INCH SCALE ACCORDINGLY

PLAN INTENDED TO BE VIEWED
IN COLOR, ADJACENT BLOCK IS
"ORANGE"

100% DESIGN



REVISIONS					DESCRIPTION
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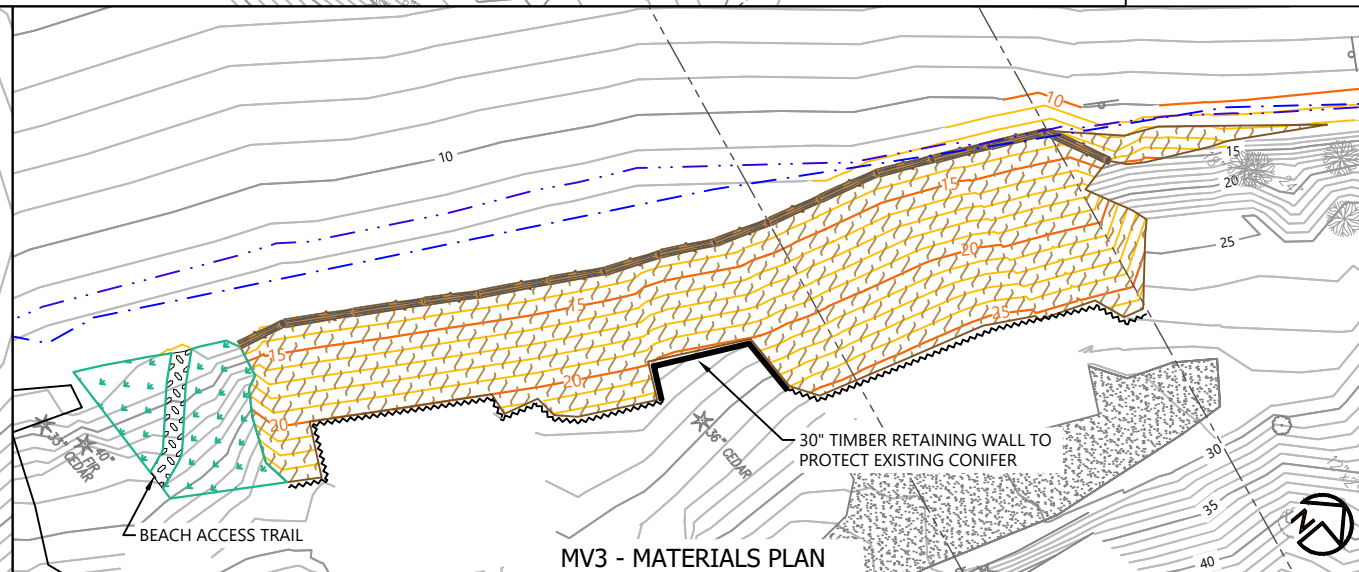
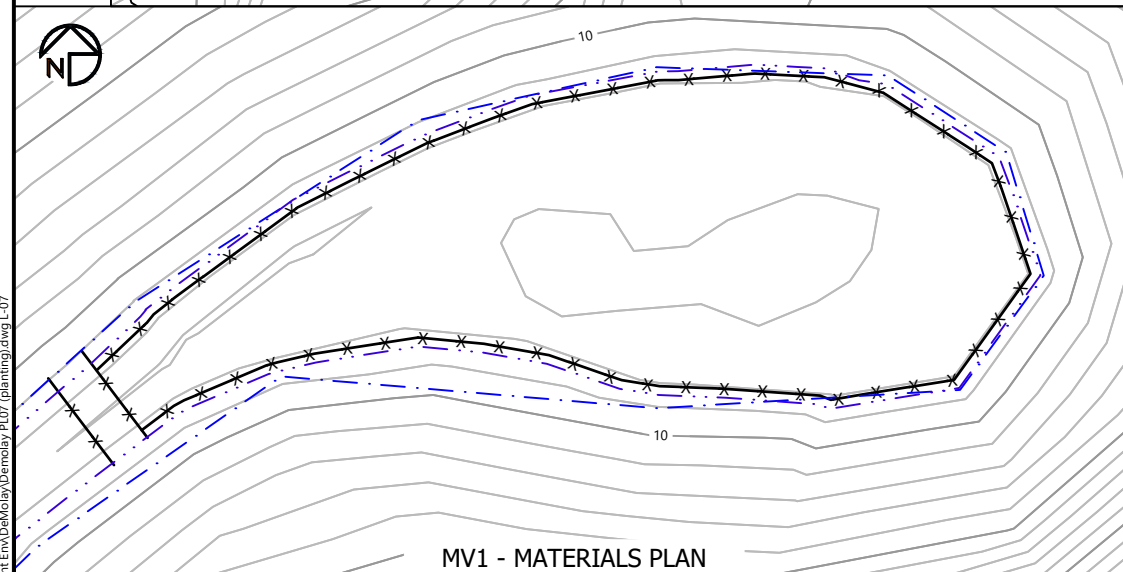
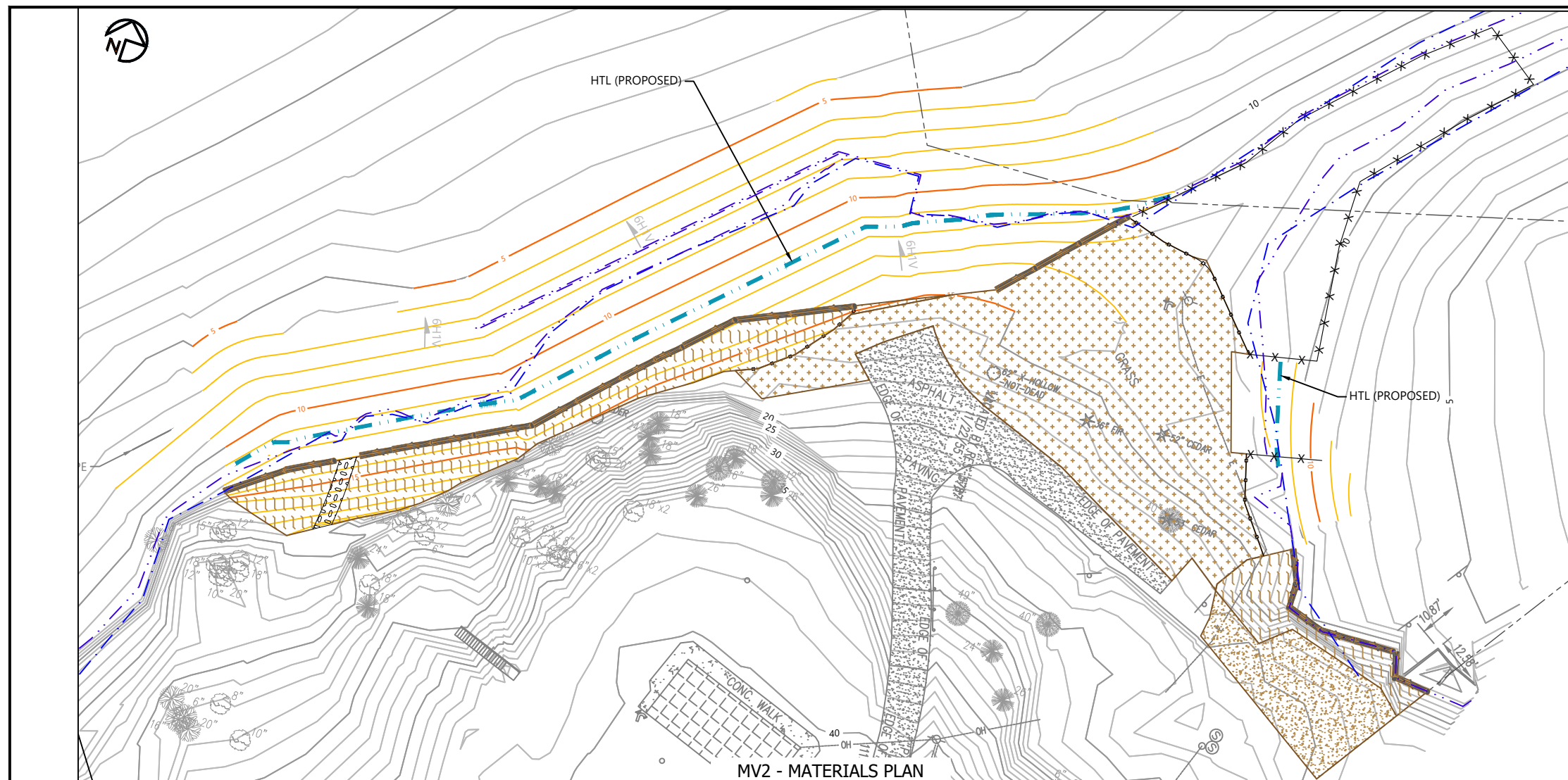
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
DEMOLAY SANDSPIT PARK
NEARSHORE RESTORATION PROJECT

PLANTING DETAILS

L-06

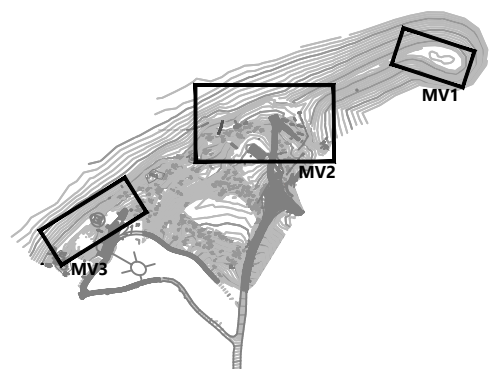
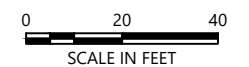
SHEET # 21 OF 23



- LEGEND:
- | | |
|---|--|
|  | EXISTING MAJOR TOPOGRAPHIC CONTOUR
(5' INTERVAL) |
|  | EXISTING MINOR TOPOGRAPHIC CONTOUR
(1' INTERVAL) |
|  | PROPOSED MAJOR TOPOGRAPHIC CONTOUR (5' INTERVAL) |
|  | PROPOSED MINOR TOPOGRAPHIC CONTOUR (1' INTERVAL) |
|  | PROPOSED HIGH TIDE LINE (+11.5' NAVD88) |
|  | EXISTING HIGH TIDE LINE (+11.5' NAVD88) |
|  | ORDINARY HIGH WATER MARK |
|  | 2" TOPSOIL TYPE A |
|  | 6" TOPSOIL TYPE A, EROSION CONTROL FABRIC & 3" MULCH |
|  | 3" COMPOST |
|  | HALF-BURIED LOG EDGING |
|  | TIMBER RETAINING WALL |
|  | POST AND ROPE FENCE |
|  | SPLIT RAIL FENCE |
|  | TEMPORARY FENCE (SEE NOTE 1) |
|  | SAND GRAVEL TRAIL |

NOTES:

1. NEED FOR TEMPORARY FENCING TO BE DETERMINED.



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[illegible]

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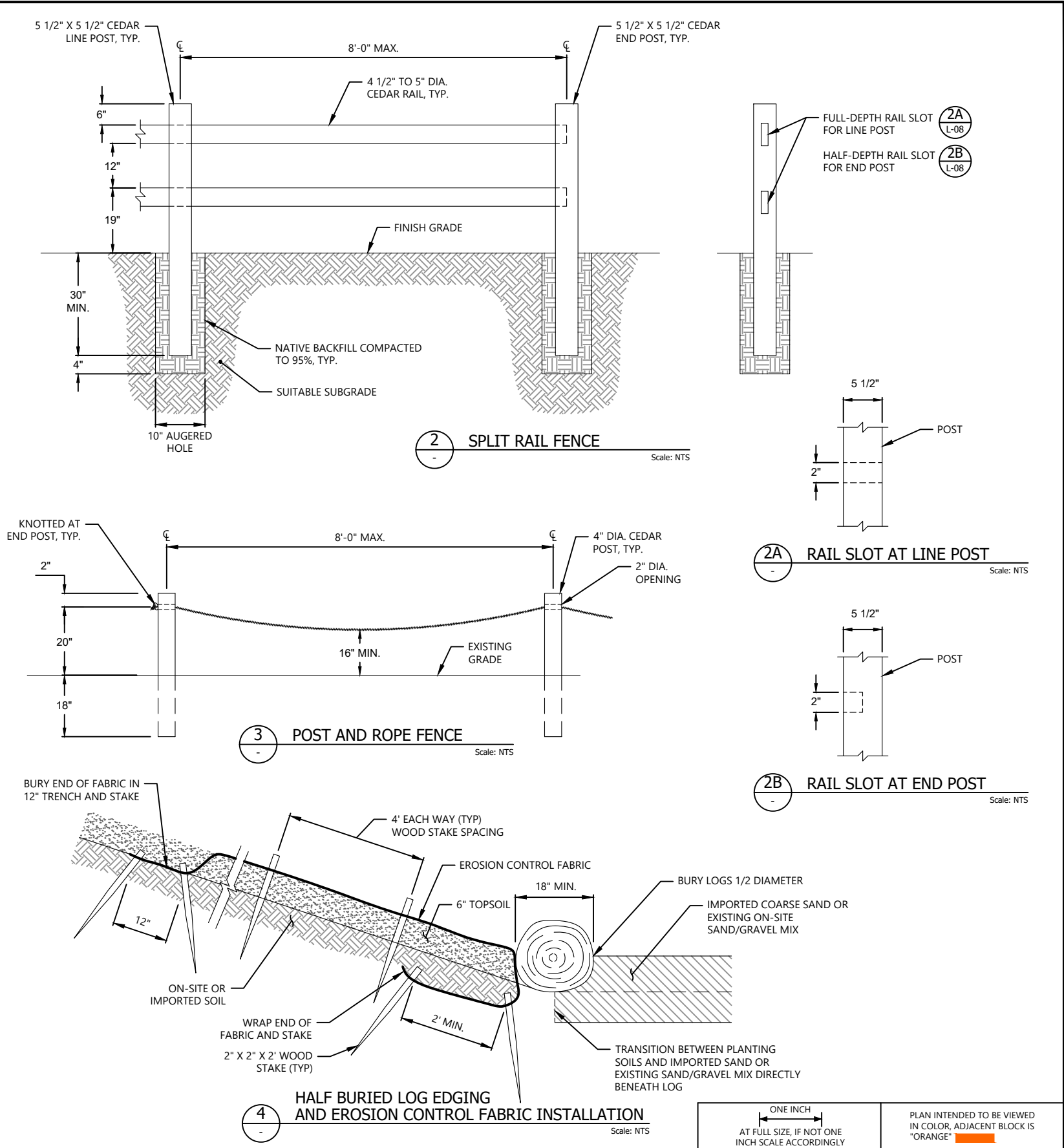
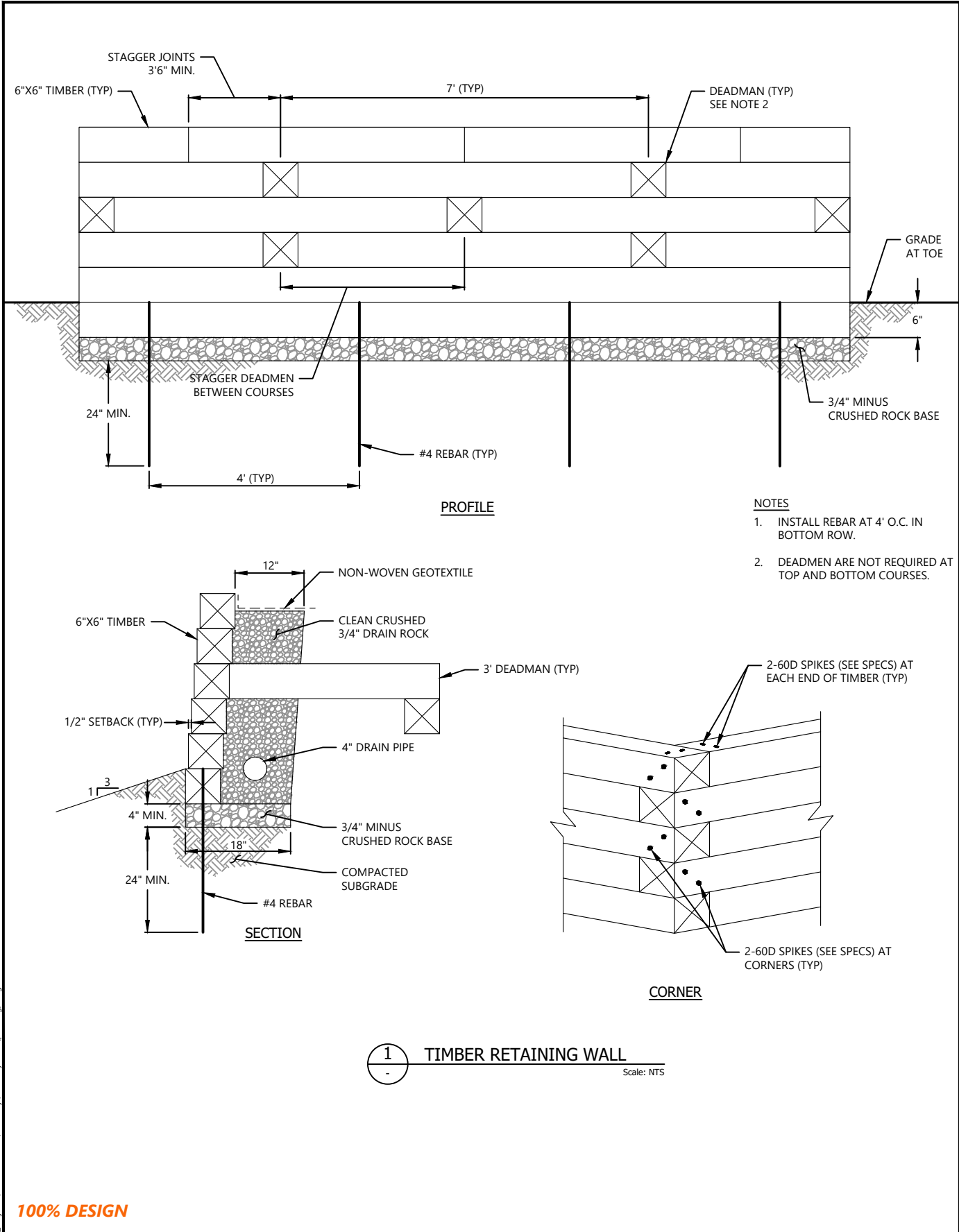
**DEMOLAY SANDSPIT PARK
NEARSHORE RESTORATION PROJECT**

CONSTRUCTION MATERIALS

L-07

SHEET # 22 OF 23

Apr 02, 2025 1:26pm cabv D:\Projects\Waterfront Env\Demolay\Demolay PLOT (planting).dwg L-08



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DEMOLAY SANDSPIT PARK
NEARSHORE RESTORATION PROJECT

DETAILS

L-08

SHEET # 23 OF 23