

NATURAL FEATURES

EXISTING NATURAL RESOURCES OR NATURAL HAZARDS ON THE SUBJECT PROPERTY, INCLUDING WETLANDS, STREAMS, RIPARIAN AREAS, FLOOD PLAINS, OR FLOODWAYS TO BE DETERMINED BY ENGINEER

EXISTING TREE CANOPY

THERE ARE NO EXISTING TREES ON THE SUBJECT PROPERTY

CULTURAL RESOURCES

LOCALLY, OR FEDERALLY DESIGNATED HISTORIC AND/OR CULTURAL RESOURCES ON THE SITE OR ON ADJACENT PARCELS TO BE DETERMINED BY ENGINEER.

PUBLIC SERVICES

PUBLIC UTILITY SERVICES, INCLUDING WATER, SEWER, STORM DRAINAGE, POWER, TELEPHONE, CABLE INTERNET, AND GAS ARE AVAILABLE TO THE SUBJECT PROPERTY.

UTILITY STATEMENT

EXISTING UNDERGROUND UTILITIES
ILLUSTRATED IN THESE PLANS ARE
APPROXIMATED BASED ON MAPS OBTAINED FROM
CURRY COUNTY GIS ELEVATIONS ESTIMATES, OR
HAVE BEEN LOCATED BY A UTILITY LOCATE
COMPANY. LAYOUT INDICATED IS NOT TO BE
RELIED ON AS BEING EXACT OR COMPLETE. ALL
LINES WITHIN PROJECTED WORK ZONE SHALL BE
FIELD VERIFIED AS REQUIRED PRIOR TO
CONSTRUCTION.

PROJECT DESCRIPTION

TITLE: SEDIMENT STOCKPILE

REFERENCE: PB114 LOCATION: HARBOR ST TAX LOT(S): 2500

DRAWING REGISTER

PB114-C100 COVER SHEET

PB114-C101 GRADING NOTES
PB114-C102 EXISTING CONDITIONS

PB114-C103 PROPOSED SEDIMENT STOCKPILE

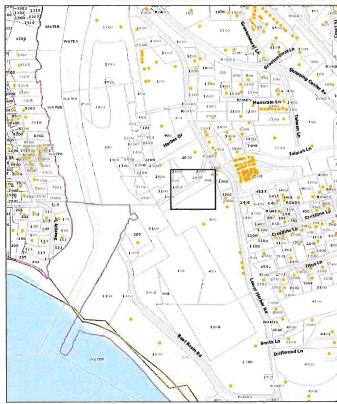


PORT OF BROOKINGS-HARBOR 2021 CIVIL IMPROVEMENTS

SEDIMENT STOCKPILE LOCATION #2



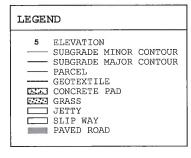
PROJECT OVERVIEW SCALE 1":100'



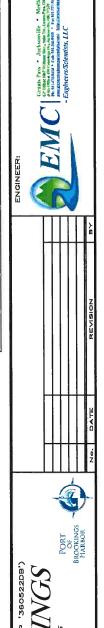
PORT OF BROOKINGS HARBOR MAP OF TAX LOTS

PRELIM GRADING NOTES

- 1. DEQ 1200-C PERMIT IS REQUIRED.
- 2. UNLESS DIRECTED OTHERWISE, REMOVE CLEARED AND GRUBBED MATERIAL FROM THE SITE AND DISPOSE AT AN APPROVED LOCATION.
- 3. PRIOR TO THE START OF CONSTRUCTION, VERIFY GRADES AT SAWCUT LOCATIONS AND MATCHING OF EXISTING GRADE LOCATIONS.
- 4. MINIMIZE TRAFFIC ON SOIL AREAS DURING WET WEATHER. IF THE SITE SOILS ARE EXPOSED DURING WET WEATHER, THE USE OF CRUSHED ROCK PLACED AS ENGINEERED FILL IN THE BOTTOM OF THE EXCAVATIONS MAY BE NECESSARY TO PROTECT THE SUBGRADE. TAKE ALL PRECAUTIONS TO LIMIT SURFACE DISTURBANCE AND PROTECT THE SITE GRADING AREA FROM EROSION AND RUNOFF.
- 5. UNLESS OTHERWISE NOTED, THE SAMPLING AND TESTING OF MATERIALS FOR USE ON THE JOBSITE SHALL BE AT THE EXPENSE OF THE CONTRACTOR. ALL TESTING OF MATERIALS AND WORKMANSHIP SHALL BE PERFORMED BY A CERTIFIED TESTER. RESULTS OF THE TESTS SHALL BE SENT DIRECTLY TO THE PROJECT ENGINEER AS WELL AS THE CONTRACTOR, BY THE LABORATORY. LOCATION AND FREQUENCY OF TESTS SHALL BE DESIGNATED BY THE GENERAL CONTRACTOR.
- 6. ALL CUT AND FILL SLOPES SHALL BE MAXIMUM OF 2:1.





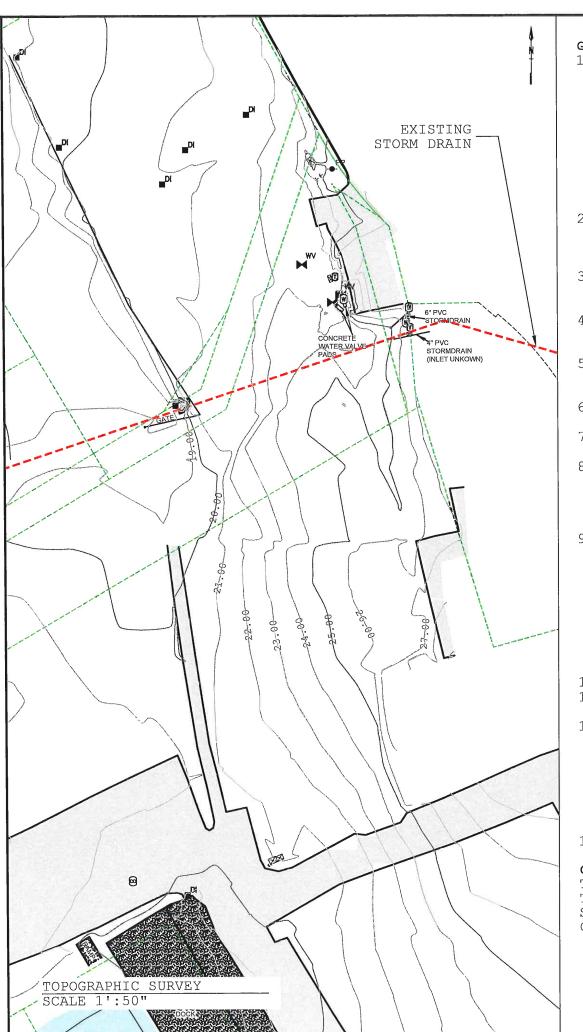




Date 04/04/202° Drawn By INFRADRAFT

INFRADRAFT
Sheet No.
C-100

No. PB11



GRADING NOTES

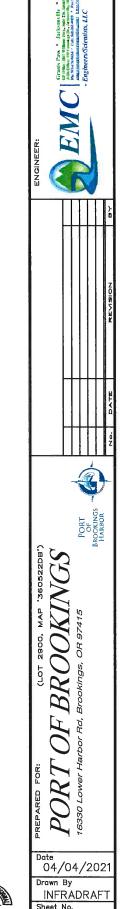
- 1. PRIOR TO THE CONSTRUCTION OF EMBANKMENTS, THE CONTRACTOR SHALL EXCAVATE UNSUITABLE FOUNDATION MATERIAL. BASEMENTS, TRENCHES AND HOLES ENCOUNTERED WITHIN EMBANKMENT LIMITS SHALL BE FILLED WITH APPROVED MATERIAL. PRIOR TO BACKFILLING THE CONTRACTOR SHALL BREAK CONCRETE FLOORS OF BASEMENTS AS DIRECTED. THE CONTRACTOR SHALL BREAK UP AND ROUGHEN THE GROUND SURFACE BEFORE EMBANKMENTS MATERIAL IS PLACED THE NATURAL GROUND UNDERLYING EMBANKMENTS SHELL BE COMPACTED TO THE DENSITY SPECIFIED FOR THE EMBANKMENT MATERIALS TO BE PLACED, AND TO THE DEPTH OF THE GRUBBING OR A MINIMUM OF 6 INCHES.
- 2. EMBANKMENT CONSTRUCTION SHALL INCLUDE PREPARATION OF THE AREAS UPON WHICH EMBANKMENTS ARE PLACED, THE PLACEMENT AND COMPACTION OF APPROVED EMBANKMENT MATERIALS AND FILLING OF HOLES, PITS AND OTHER DEPRESSIONS WITHIN THE SUBDIVISION.
- 3. THE CONTRACTOR SHALL PLACE EMBANKMENTS AND FILLS IN THE HORIZONTAL LAYERS OF 8 INCHES MAXIMUM DEPTH AND COMPACT EACH LAYER TO THE DENSITY SPECIFIED.
- 4. EMBANKMENT SHALL NOT BE CONSTRUCTED WHEN THE EMBANKMENT MATERIAL OR THE FOUNDATION ON WHICH THE EMBANKMENT WOULD BE PLACED IS FROZEN.
- 5. IMMEDIATELY PRIOR TO COMPLETION OF THE EARTHWORK, THE CONTRACTOR SHALL CLEAN THE ENTIRE WORK AREA OF DEBRIS AND FOREIGN MATTER.
- 6. THE MAXIMUM DENSITY OF COMPACTED MATERIAL WILL BE DETERMINED BY AASHTO T-99
- 7. THE CONTRACTOR SHALL COMPACT ALL EMBANKMENTS, FILLS AND BACKFILLS TO A MINIMUM IN PLACE DENSITY OF 95 PRESENT.
- 8. THE CONTRACTOR SHALL WATER THE MATERIALS TO PROVIDE OPTIMUM MOISTURE FOR COMPACTION OF EMBANKMENT AND BACKFILLS.
 EMBANKMENTS OD BACKFILL MATERIALS SHALL NOT BE PLACED IN FINAL POSITION UNTIL MOISTURE IN EXCESS OF OPTIMUM MOISTURE HAS BEEN REMOVED.
- 9. IF THE SPECIFIED COMPACTION IS NOT OBTAINED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER. THE CONTRACTOR MAY BE REQUIRED TO USE A MODIFIED COMPACTION PROCEDURE OR APPLY ADDITIONAL COMPACTIVE EFFORT. IF APPROVED MATERIALS MEETING THE SPECIFICATIONS CANNOT BE COMPACTED TO THE REQUIRED DENSITY REGARDLESS OF COMPACTIVE EFFORT OR METHOD, THE ENGINEER MAY REDUCE THE REQUIRED DENSITY OR DIRECT THE ALTERNATE MATERIALS BE USED. IN NO CASE SHALL EARTHWORK OPERATIONS PROCEED UNTIL THE CONTRACTOR IS ABLE TO COMPACT THE MATERIAL TO THE SATISFACTION OF THE ENGINEER.
- 10.DEQ 1200-C PERMIT IS NOT REQUIRED.
- 11.UNLESS DIRECTED OTHERWISE, REMOVE CLEARED AND GRUBBED MATERIAL FROM THE SITE AND DISPOSE AT AN APPROVED LOCATION.
- 12.UNLESS OTHERWISE NOTED, THE SAMPLING AND TESTING OF MATERIALS FOR USE ON THE JOBSITE SHALL BE AT THE EXPENSE OF THE CONTRACTOR. ALL TESTING OF MATERIALS AND WORKMANSHIP SHALL BE PERFORMED BY A CERTIFIED TESTER. RESULTS OF THE TESTS SHALL BE SENT DIRECTLY TO THE PROJECT ENGINEER AS WELL AS THE CONTRACTOR, BY THE LABORATORY. LOCATION AND FREQUENCY OF TESTS SHALL BE DESIGNATED BY THE GENERAL CONTRACTOR.
- 13.ALL CUT AND FILL SLOPES SHALL BE MAXIMUM OF 2:1.

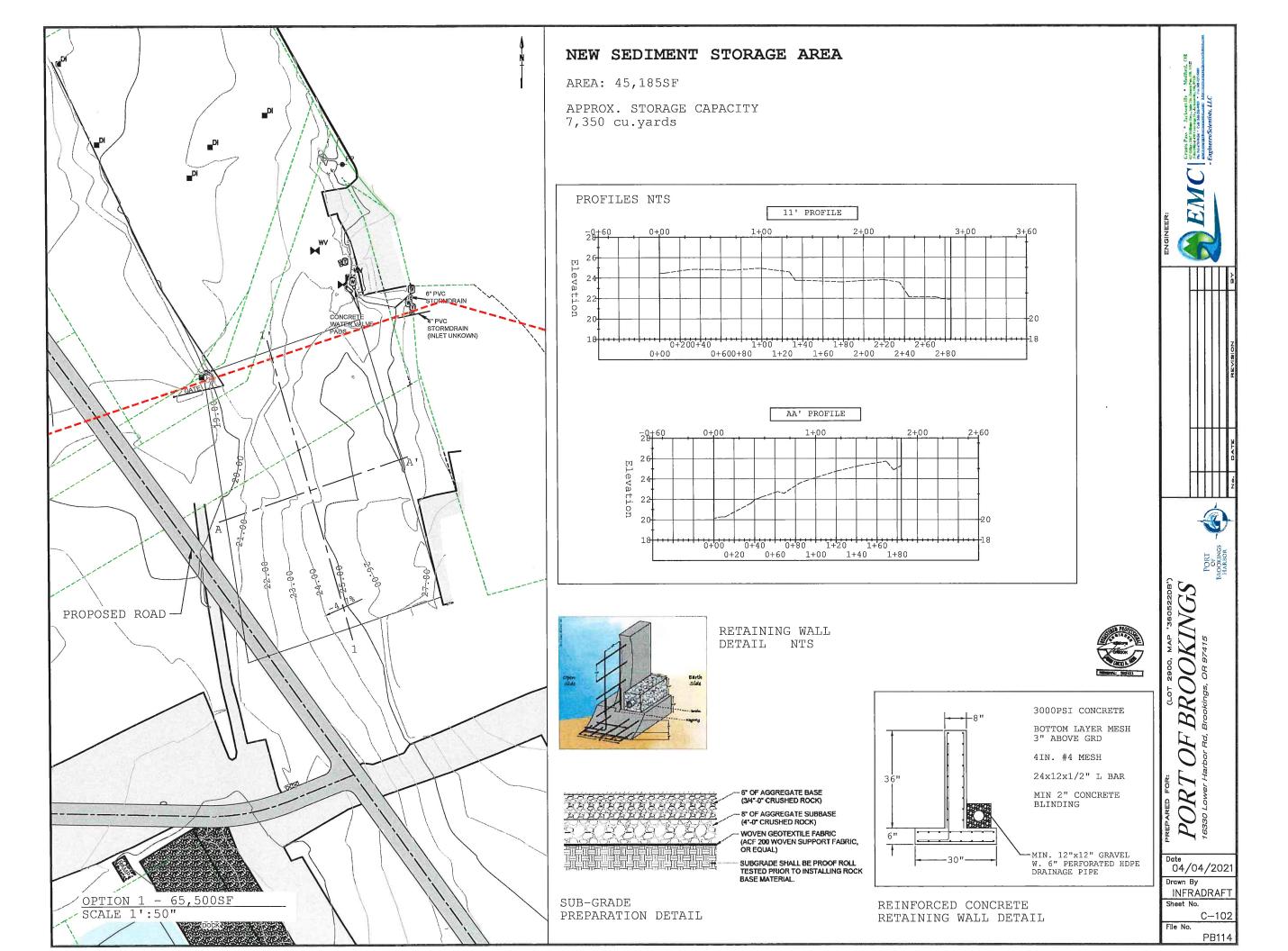
GEOTECHNICAL NOTE

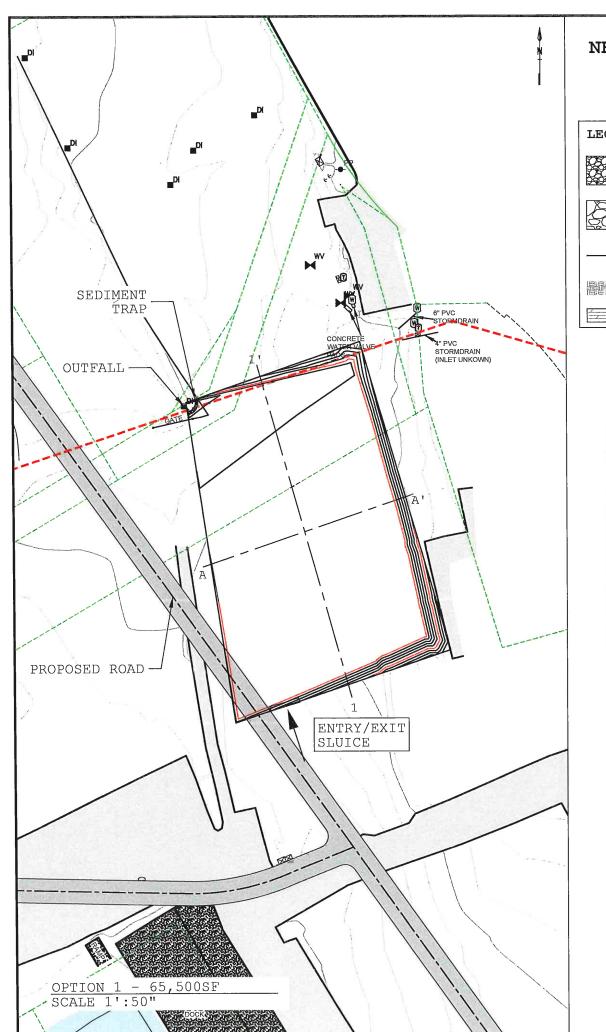
THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH THE PROJECT ENGINEER FOR REQUIRED REMEDIATION. THE CONTRACTOR SHALL COORDINATE WITH THE PROJECT ENGINEER FOR REQUIRED SITE OBSERVATIONS AND TESTING OF ALL FILLS.



C-101







NEW SEDIMENT STORAGE AREA

LEGEND

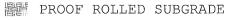


6" AGGREGATE BASE 3/4"-0" CRUSHED ROCK

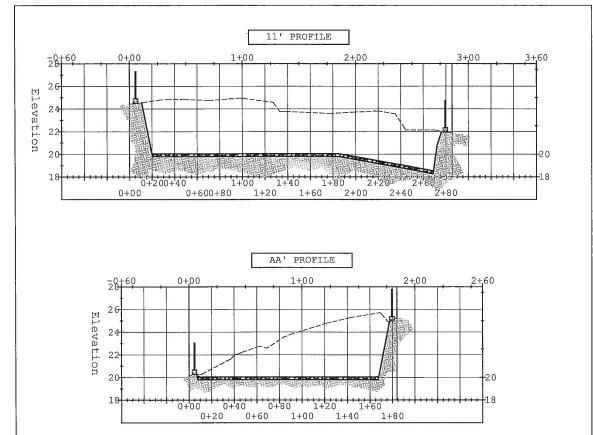


8" AGGREGATE SUBBASE 4" 0" CRUSHED ROCK





ENGINEERED FILL



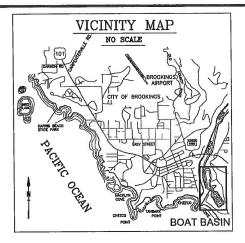
SEDIMENT STORAGE GRADING



Date 04/04/2021 Drawn By INFRADRAFT C103

PB114

Crans Pay - Inchemylle - Medford, OR - Medfo



NATURAL FEATURES

EXISTING NATURAL RESOURCES OR NATURAL HAZARDS ON THE SUBJECT PROPERTY, INCLUDING WETLANDS, STREAMS, RIPARIAN AREAS, FLOOD PLAINS, OR FLOODWAYS TO BE DETERMINED BY ENGINEER

EXISTING TREE CANOPY

THERE ARE NO EXISTING TREES ON THE SUBJECT PROPERTY

CULTURAL RESOURCES

LOCALLY, OR FEDERALLY DESIGNATED HISTORIC AND/OR CULTURAL RESOURCES ON THE SITE OR ON ADJACENT PARCELS TO BE DETERMINED BY ENGINEER.

PUBLIC SERVICES

PUBLIC UTILITY SERVICES, INCLUDING WATER, SEWER, STORM DRAINAGE, POWER, TELEPHONE, CABLE INTERNET, AND GAS ARE AVAILABLE TO THE SUBJECT PROPERTY.

UTILITY STATEMENT

EXISTING UNDERGROUND UTILITIES
ILLUSTRATED IN THESE PLANS ARE
APPROXIMATED BASED ON MAPS OBTAINED FROM
CURRY COUNTY GIS ELEVATIONS ESTIMATES, OR
HAVE BEEN LOCATED BY A UTILITY LOCATE
COMPANY. LAYOUT INDICATED IS NOT TO BE
RELIED ON AS BEING EXACT OR COMPLETE. ALL
LINES WITHIN PROJECTED WORK ZONE SHALL BE
FIELD VERIFIED AS REQUIRED PRIOR TO
CONSTRUCTION.

PROJECT DESCRIPTION

TITLE: BASIN DREDGING

REFERENCE: PB115

LOCATION: NORTH AND SOUTH BASIN

TAX LOT(S): 298,299,498,499,500,1100,1200

1700, 1799, 1798, 1800, 3400, 3100, 3300

DRAWING REGISTER

PB115-C100 Cover Sheet

PB115-C101 Existing Condition

PB115-C102 Planned Dredging

PB115-C103 Isopach



PORT OF BROOKINGS-HARBOR 2021 CIVIL IMPROVEMENTS

BASIN DREDGING



PROJECT OVERVIEW SCALE 1":500'

Name	Туре	2d Area (Sq. Ft.)	Cut (Cu. Yd.)	Fill (Cu. Yd.)	Net (Cu. Yd.)
DREDGE 4432	full	51826.48	9081.75	887.80	8193.95 <cut></cut>
DREDGE 4452	full	349993.68	69380.03	0.00	69380.03 <cut></cut>
DREDGE ICEHOUSE	full	35086.03	3862.12	2.58	3859.53 <cut></cut>

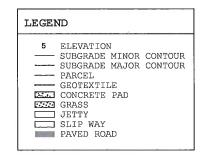
VOLUME REPORT



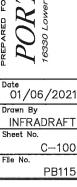
PORT OF BROOKINGS HARBOR
MAP OF TAX LOTS

PRELIM GRADING NOTES

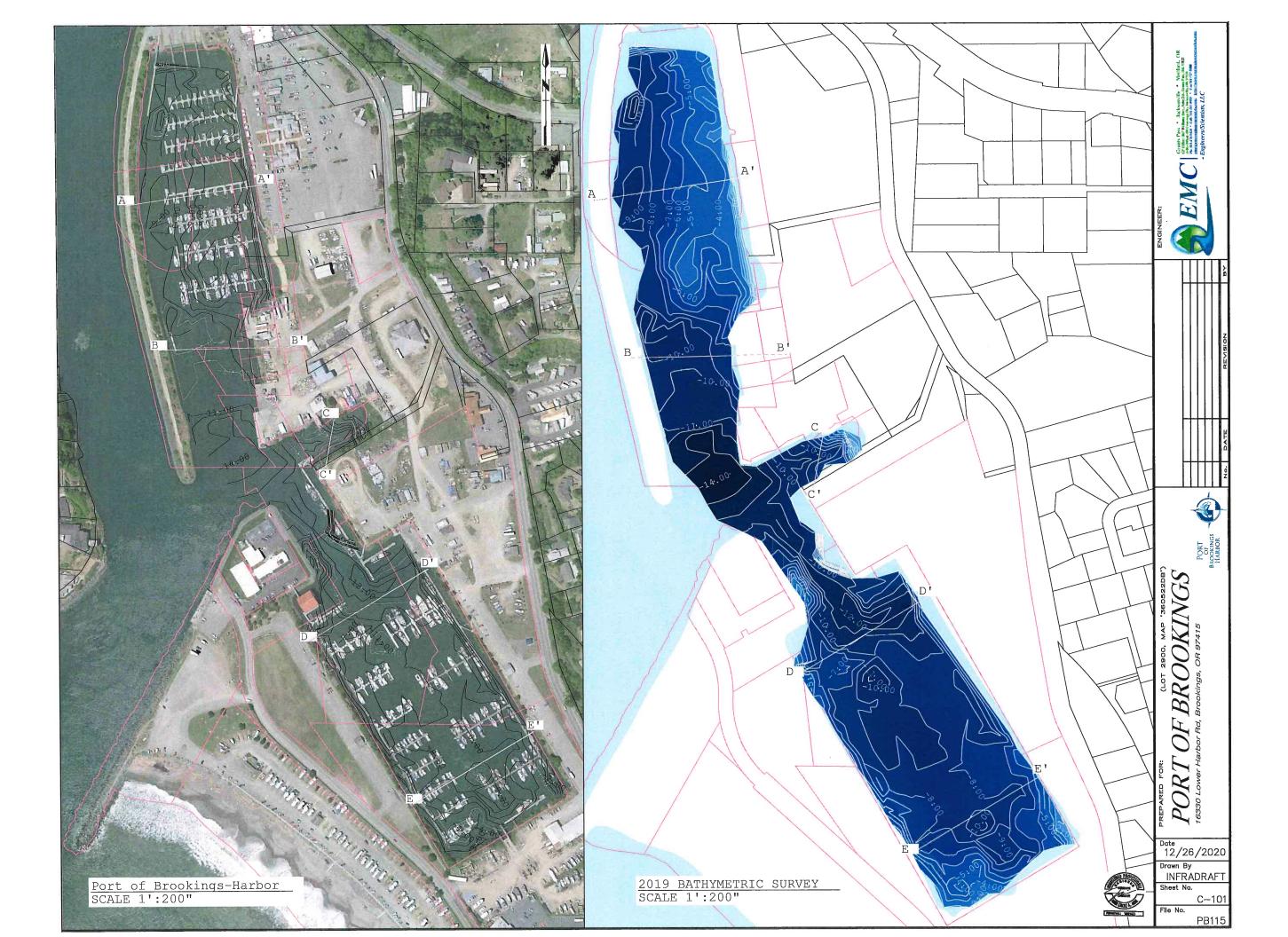
- 1. DEQ 1200-C PERMIT IS REQUIRED.
- 2. UNLESS DIRECTED OTHERWISE, REMOVE CLEARED AND GRUBBED MATERIAL FROM THE SITE AND DISPOSE AT AN APPROVED LOCATION.
- 3. PRIOR TO THE START OF CONSTRUCTION, VERIFY GRADES AT SAWCUT LOCATIONS AND MATCHING OF EXISTING GRADE LOCATIONS.
- 4. MINIMIZE TRAFFIC ON SOIL AREAS DURING WET WEATHER. IF THE SITE SOILS ARE EXPOSED DURING WET WEATHER, THE USE OF CRUSHED ROCK PLACED AS ENGINEERED FILL IN THE BOTTOM OF THE EXCAVATIONS MAY BE NECESSARY TO PROTECT THE SUBGRADE. TAKE ALL PRECAUTIONS TO LIMIT SURFACE DISTURBANCE AND PROTECT THE SITE GRADING AREA FROM EROSION AND RUNOFF.
- 5. UNLESS OTHERWISE NOTED, THE SAMPLING AND TESTING OF MATERIALS FOR USE ON THE JOBSITE SHALL BE AT THE EXPENSE OF THE CONTRACTOR. ALL TESTING OF MATERIALS AND WORKMANSHIP SHALL BE PERFORMED BY A CERTIFIED TESTER. RESULTS OF THE TESTS SHALL BE SENT DIRECTLY TO THE PROJECT ENGINEER AS WELL AS THE CONTRACTOR, BY THE LABORATORY. LOCATION AND FREQUENCY OF TESTS SHALL BE DESIGNATED BY THE GENERAL CONTRACTOR.
- 6. ALL CUT AND FILL SLOPES SHALL BE MAXIMUM OF 2:1.

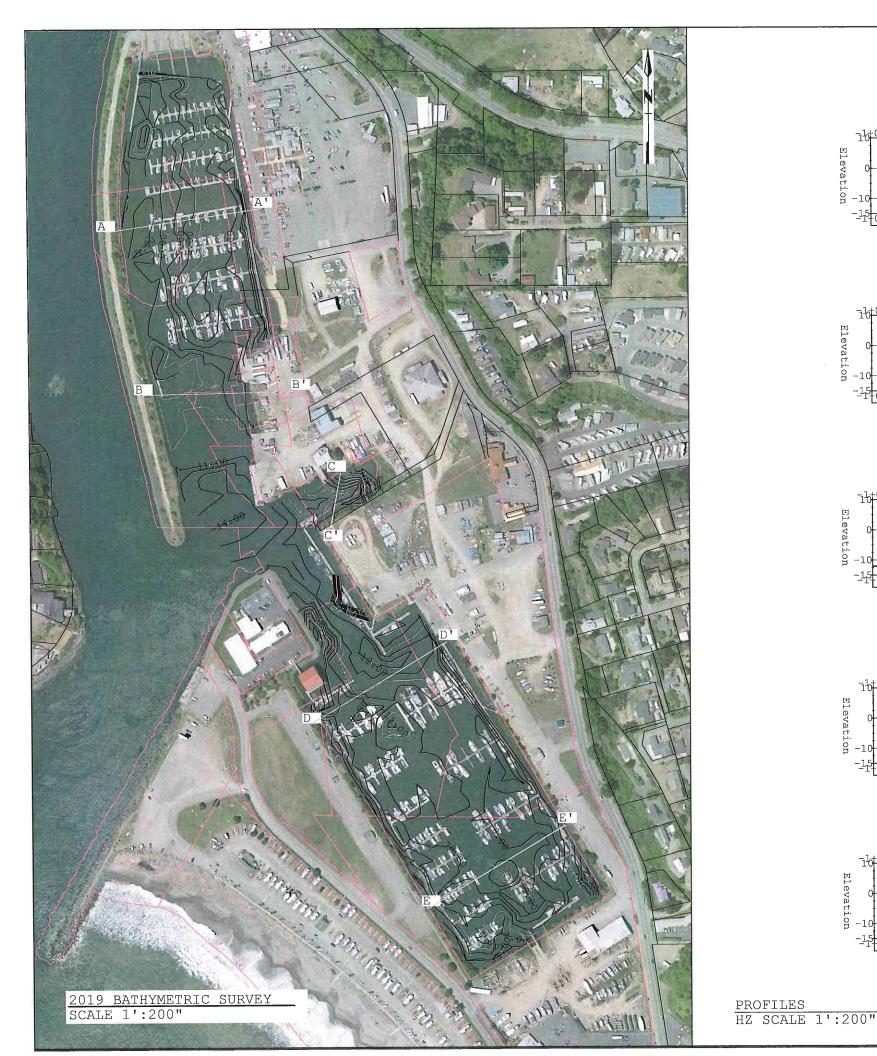


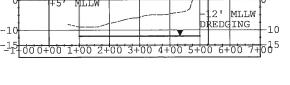


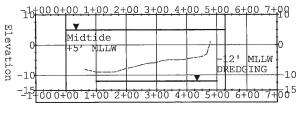


BROOKINGS

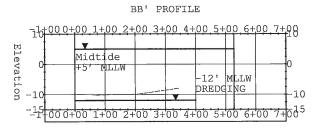








AA' PROFILE



-12' MLLW DREDGING

-12' MLLW DREDGING

=12' MLLW DREDGING

DD' PROFILE

EE' PROFILE

-15 00 0+00 1+00 2+00 3+00 4+00 5+00 6+00 7+00 $\frac{1}{2}$

CC' PROFILE -10+000+001+002+003+00

Midtide +5' MLLW

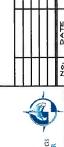
Midtide

Midtide



Grants Pass - Jacksonville - Medford, OR Grouns and Vinne breachests and the States of States of

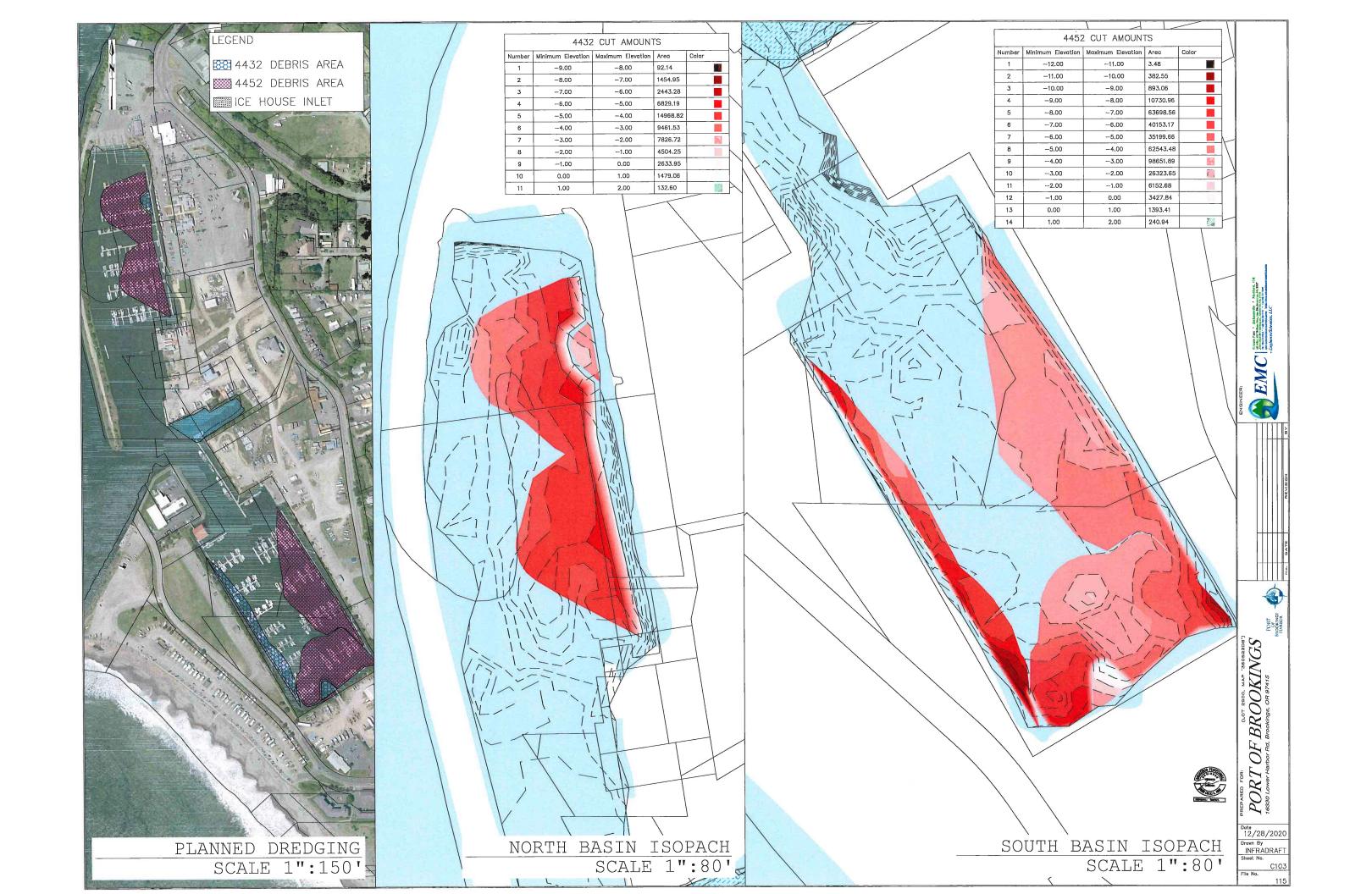
EMC

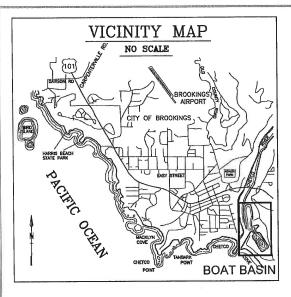




BROOKINGS

Date 12/26/2020 Drawn By
INFRADRAFT
Sheet No.





NATURAL FEATURES

EXISTING NATURAL RESOURCES OR NATURAL HAZARDS ON THE SUBJECT PROPERTY, INCLUDING WETLANDS, STREAMS, RIPARIAN AREAS, FLOOD PLAINS, OR FLOODWAYS TO BE DETERMINED BY

EXISTING TREE CANOPY

THERE ARE NO EXISTING TREES ON THE SUBJECT

CULTURAL RESOURCES

LOCALLY, OR FEDERALLY DESIGNATED HISTORIC AND/OR CULTURAL RESOURCES ON THE SITE OR ON ADJACENT PARCELS TO BE DETERMINED BY

PUBLIC UTILITY SERVICES, INCLUDING WATER, SEWER, STORM DRAINAGE, POWER, TELEPHONE, CABLE INTERNET, AND GAS ARE AVAILABLE TO THE SUBJECT PROPERTY.

UTILITY STATEMENT
EXISTING UNDERGROUND UTILITIES ILLUSTRATED
IN THESE PLANS ARE APPROXIMATED BASED ON MAPS OBTAINED FROM CURRY COUNTY GIS ELEVATIONS ESTIMATES, OR HAVE BEEN LOCATED BY A UTILITY LOCATE COMPANY. LAYOUT INDICATED IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. ALL LINES WITHIN PROJECTED WORK ZONE SHALL BE FIELD VERIFIED AS REQUIRED PRIOR TO CONSTRUCTION.

PROJECT DESCRIPTION

TITLE: SOUTH BASIN EMBANKMENT RECONSTRUCTION REFERENCE: PB113 LOCATION: SOUTH BASIN TAX LOT(S): 401,498,1100,1200,1300,1400

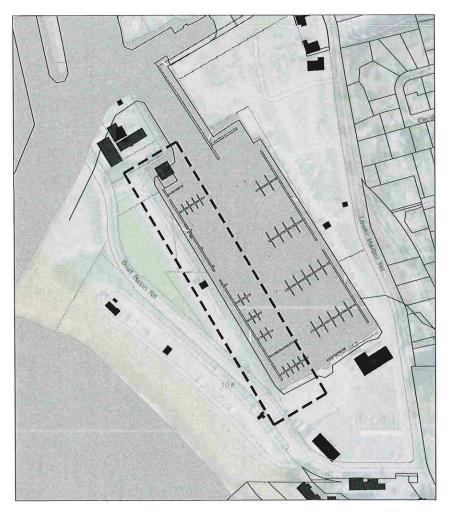
DRAWING REGISTER

PB113-C100	Cover sheet
PB113-C101	Notes
PB113-C102	Existing Condition
PB113-CI02A	EXISTING EMBANKMENT VIEWS
PB113-C103	Embankment
PB113-C104	Details
PB113-C105	Plan details

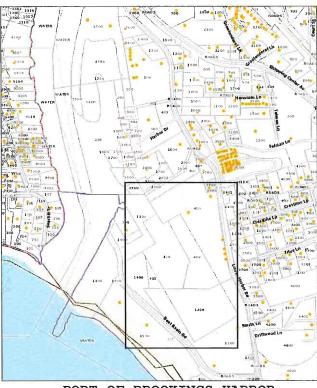


PORT OF BROOKINGS-HARBOR 2021 CIVIL IMPROVEMENTS

SOUTH BASIN EMBANKMENT RECONSTRUCTION



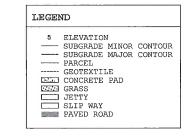
PROJECT OVERVIEW SCALE 1":200'



PORT OF BROOKINGS HARBOR MAP OF TAX LOTS

PRELIM GRADING NOTES

- 1. DEQ 1200-C PERMIT IS REQUIRED.
- 2. UNLESS DIRECTED OTHERWISE, REMOVE CLEARED AND GRUBBED MATERIAL FROM THE SITE AND DISPOSE AT AN APPROVED LOCATION.
- 3. PRIOR TO THE START OF CONSTRUCTION, VERIFY GRADES AT SAWCUT LOCATIONS AND MATCHING OF EXISTING GRADE LOCATIONS.
- 4. MINIMIZE TRAFFIC ON SOIL AREAS DURING WET WEATHER. IF THE SITE SOILS ARE EXPOSED DURING WET WEATHER, THE USE OF CRUSHED ROCK PLACED AS ENGINEERED FILL IN THE BOTTOM OF THE EXCAVATIONS MAY BE NECESSARY TO PROTECT THE SUBGRADE. TAKE ALL PRECAUTIONS TO LIMIT SURFACE DISTURBANCE AND PROTECT THE SITE GRADING AREA FROM EROSION AND RUNOFF.
- 5. UNLESS OTHERWISE NOTED, THE SAMPLING AND TESTING OF MATERIALS FOR USE ON THE JOBSITE SHALL BE AT THE EXPENSE OF THE CONTRACTOR. ALL TESTING OF MATERIALS AND WORMANSHIP SHALL BE PERFORMED BY A CERTIFIED TESTER. RESULTS OF THE TESTS SHALL BE SENT DIRECTLY TO THE PROJECT ENGINEER AS WELL AS THE CONTRACTOR, BY THE LABORATORY. LOCATION AND FREQUENCY OF TESTS SHALL BE DESIGNATED BY THE GENERAL CONTRACTOR.
- 6. ALL CUT AND FILL SLOPES SHALL BE MAXIMUM













OF BROOKINGS

GENERAL NOTES

- These notes are intended for use in interpreting and implementing the tasks shown on the following construction plans and specifications sheets. These are in addition to the overall project specification and bid documents and contractual items.
- These are intended for the use of the general contractor and his/her subcontractors in the demolition and
- reconstruction of the subject area of the Port of Brookings Harbor. Use for other purposes or at other sites is not recommended and is accomplished at the sole risk of the user.
- These items are to be used as a supplement to the details provided on the plan sheets and specification pages. Any discrepancies found among the Drawings, the Specifications, referenced reports, these General Notes and other items listed on this sheet and the site conditions shall be reported to the Engineer, who shall correct such discrepancy in writing. Any work done by the General Contractor after discovery of such discrepancy shall be done at the General Contractor's risk. The General Contractor shall verify and coordinate dimensions among all drawings prior to proceeding with any work.
- The embankment repair has been designed to resist anticipated vertical and lateral forces after the construction of all structural elements has been completed. Stability of the structure and slope areas prior to completion is the responsibility of the General Contractor. This responsibility includes, but is not limited to jobsite safety, construction means, methods, and sequences, temporary shoring, slope stability, formwork and bracing, use of equipment and construction procedures.
- Construction observation by the Engineer is for checking for conformance with design aspects only and is not intended in any way to review and/or approve the General Contractor's construction procedures or relieve the contractor from providing a completed project, consistent with the plans and specifications and good construction practices. Special inspection by the engineer does not provide a certification of the project or relieve the contractor of all responsibility for a properly constructed project.

Standards Used for Design

All methods, materials and workmanship shall conform to the plans and specifications and ODOT Standard Specifications, unless elsewhere herein specified otherwise. International Building Code (IBC) 2009; 2010 Oregon Structure Specialty Code (OSSC); American Society of Civil Engineers (ASCE)

Other Notes

- 1. Jobsite safety is the responsibility of the Contractor.
- 2. All products and workmanship shall be new materials of good quality, acceptable for this type of construction. Work to be accomplished in a good and workmanlike manner.
- 3. All materials to be shipped, handled and stockpiled in accordance with the manufacturers recommendations and good construction practices.
- 4. Locations must be verified at the site with the geotechnical engineer and the Port of Brookings Harbor representative prior to placement.
- 5. Abide by local, state and federal building ordinances, including all safety requirements, in all phases of the project.
- 6. All phases of the project are to conform to the plans and specifications attached hereto and specifications provided by the owner and the engineer-of-record.
- 7. Proposed changes to project plans and specifications must be approved by the designer prior to acceptance and implementation at the site.
- 8. Proposed changes must be submitted in writing for review and approval/disapproval by the designer and the owner.
- 9. In no case shall changes, substitutions or omissions be made to the design or materials without the written authorization of the designer and the owner.
- 10. Authorization of a design change by the engineer does not constitute acceptance by the Port of Brookings Harbor, nor does it authorize additional funds for the changes. The Port's representative must authorize in writing the design change and applicable changes in the contract amount and/or construction time period prior to implementation of such changes.
- 11. Project schedule and general sequencing of all work must be reviewed and approved by the design engineer and the owner. Such approval does not relieve the contractor or his/her subcontractors of all responsibilities for proper execution of the subject project construction.
- 12. Sequencing of tasks that requires varying the installed sizes of project materials must be reviewed and approved by the design engineer and owner.
- 13. Traffic control and signage must be provided by the contractor unless otherwise so stated in the contract. Access to the US Coast Guard facilities must be maintained during construction.
- 14. Contractor must understand that the project site is in a Harbor area subject to tidal fluctuations. Therefore, sequencing and project work must take into account effects of high and low tides.
- 15. Replacement of specified products by an "Equivalent" product must be approved by the design engineer and the owner. Redesign required for use of alternate "Equivalent" materials is to be borne by the contractor.

GRADING NOTES

- 1. DEQ 1200-C PERMIT IS NOT REQUIRED.
- 2. UNLESS DIRECTED OTHERWISE, REMOVE CLEARED AND GRUBBED MATERIAL FROM THE SITE AND DISPOSE AT AN APPROVED LOCATION.
- PRIOR TO THE START OF CONSTRUCTION, VERIFY GRADES AT SAWCUT LOCATIONS AND MATCHING OF EXISTING GRADE LOCATIONS.
- 4. MINIMIZE TRAFFIC ON SOIL AREAS DURING WET WEATHER. IF THE SITE SOILS ARE EXPOSED DURING WET WEATHER, THE USE OF CRUSHED ROCK PLACED AS ENGINEERED FILL IN THE BOTTOM OF THE EXCAVATIONS MAY BE NECESSARY TO PROTECT THE SUBGRADE. TAKE ALL PRECAUTIONS TO LIMIT SURFACE DISTURBANCE AND PROTECT THE SITE GRADING AREA FROM EROSION AND RUNOFF.
- 5. UNLESS OTHERWISE NOTED, THE SAMPLING AND TESTING OF MATERIALS FOR USE ON THE JOBSITE SHALL BE AT THE EXPENSE OF THE CONTRACTOR. ALL TESTING OF MATERIALS AND WORKMANSHIP SHALL BE PERFORMED BY A CERTIFIED TESTER. RESULTS OF THE TESTS SHALL BE SENT DIRECTLY TO THE PROJECT ENGINEER AS WELL AS THE CONTRACTOR, BY THE LABORATORY. LOCATION AND FREQUENCY OF TESTS SHALL BE DESIGNATED BY THE GENERAL CONTRACTOR.
- 6. ALL CUT AND FILL SLOPES SHALL BE MAXIMUM OF 2:1.

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN NOTES

- 1. PROJECT/PURPOSE ITH THE PURPOSE OF MAINTAINING, REHABILITATING, REPLACING, AND UPGRADING THE EXISTING WESTERN EMBANKMENT AT THE SOUTH BASIN OF PORT OF BROOKINGS. THE EXISTING EMBANKMENT WILL BE CLEARED DOWN TO SUITABLE SUBGRADE AT A SLOPE BETWEEN 1.5:1 AND 2:1. A 4FT DEEP TRENCH WILL BE EXACAVATED AT THE BASE OF THE EMBANKMENT. A 3FT DEEP LAYER OF AGGREGATE WILL BE PLACED ON TOP OF THE SLOPE AND INTO THE TRENCH
- 2. CONTRACTOR ACTIVITIES CONTRACTOR ACTIVITIES ARE DESCRIBED AS EXCAVATION AND CLEARING USING A 25T EXCAVATOR. EXCAVATION AND SPREADING AT THE BASE OF THE SLOPE USING A LONG REACH EXCAVATOR. PLACEMENT OF GEOGRID. PLACEMENT OF CRUSHED AGGREGATE FROM FINE GRAVEL TO 2FT BOULDERS
- 3. SOIL DISTURBING ACTIVITIES EXCAVATION WILL BE LIMITED TO EXISTING MARINA EDGES AS SHOWN ON DRAWING C102
- 4. NON-STORMWATER DISCHARGES NO DEWATERING, WATER-LINE FLUSHING, PAVEMENT WASH WATERS OR IRRIGATION WATER DISCHARGES ARE PLANNED FOR THIS PROJECT.
- 5. ESTIMATED START DATE FOR CONSTRUCTION 02/01/21 03/30/21
- 6. NEAREST SURFACE WATER BODIES PORT OF BROOKINGS ICE HOUSE INLET IN THE COMMERCIAL BASIN (SOUTH BASIN) AND THE SPORT BASIN, NEAR DOCK A (NORTH BASIN).
- 7. RECEIVING WATERS PACIFIC OCEAN
- 8. SPECIAL ENVIRONMENTAL CONSIDERATIONS SEE SECTION BELOW DESCRIBING PRECAUTION REGARDING CREOSOTE COATED PILES TO BE EXTRACTED. ESA OPINIONS PROVIDED BY USACE, NMFS AND ODFW.
- 9. DESIGNATED EPCM THE DESIGNATED EROSION AND POLLUTION CONTROL MANAGER (EPCM) WHO WILL ASSURE COMPLIANCE WITH ALL ITEMS IN THIS PLAN IS TED FITZGERALD, PORT DIRECTOR, OR HIS DESIGNEE.
- 10. EROSION, SEDIMENTATION AND POLLUTION CONTROL BMPS BEST MANAGEMENT PRACTICES (BMP) TO BE USED, WHEN APPLICABLE, TO PREVENT POLLUTION RELATED TO CONTRACTOR ACTIVITIES LISTED IN THIS SECTION ARE AS FOLLOWS: A) OFFSITE VEHICLE TRACKING AND DUST PREVENTION - MEASURES WILL BE TAKEN TO PREVENT OFFSITE TRACKING OF MATERIALS, INCLUDING SWEEPING PAVEMENTS, COVERING LOADS AND WETTING SOIL TO PREVENT DUST. THERE WILL BE NO AGGREGATE CONSTRUCTION. B) MATERIAL MANAGEMENT AND SPILL PREVENTION - ALL ON SITE FUELS WILL BE DELIVERED, HANDLED, STORED, USED, AND APPLIED SO AS NOT TO BE RELEASED INTO THE WATERS OF THE STATE/US. FUELING WILL BE ACCOMPLISHED AWAY FROM THE WORK AREA A SPILL CLEANUP KIT WILL BE AVAILABLE IF DEEMED BY THE EPCM TO BE REQUIRED. C) WASTE MANAGEMENT - HANDLING, STORAGE AND DISPOSAL OF SOLID WASTE AND/OR HAZARDOUS WASTE WILL BE DISPOSED INTO SUITABE LANDFILL OFFSITE D) INSPECTION AND MAINTENANCE - DAILY INSPECTION AND MAINTENANCE FOR ALL CONTROLS INCLUDED IN THE POLLUTION CONTROL PLAN AND THE ESCP WILL BE PERFORMED BY THE EPCM OR HIS DESIGNEE. E) EMPLOYEE AND SUBCONTRACTOR TRAINING - EMPLOYEE AND SUBCONTRACTOR EDUCATION AT A MINIMUM WILL INCLUDES INFORMING PERSONNEL OF THE POSTED LOCATIONS OF THE POLLUTION CONTROL PLAN/EROSION AND SEDIMENT CONTROL PLAN/MSDS'S AND IMPORTANT EMERGENCY PHONE NUMBERS. EDUCATION WILL ALSO INCLUDE INFORMING PERSONNEL OF REVISED MATERIAL MANAGEMENT PROCEDURES FOLLOWING A SPILL F) (CRITERIA 15) PRECONSTRUCTION ACTIVITY - BEFORE ALTERATION OF THE ACTION AREA, FLAG THE BOUNDARIES OF CLEARING LIMITS ASSOCIATED WITH SITE ACCESS AND CONSTRUCTION TO MINIMIZE SOIL AND VEGETATION DISTURBANCE, AND ENSURE THAT ALL TEMPORARY EROSION CONTROLS ARE IN PLACE AND FUNCTIONAL. G) (CRITERIA 16) SITE PREPARATION - DURING SITE PREPARATION, CONSERVE NATIVE MATERIALS FOR RESTORATION, INCLUDING LARGE WOOD, VEGETATION, TOPSOIL AND CHANNEL MATERIALS (GRAVEL, COBBLE AND BOULDERS) DISPLACED BY CONSTRUCTION. WHENEVER PRACTICAL, LEAVE NATIVE MATERIALS WHERE THEY ARE FOUND AND IN AREAS TO BE CLEARED, CLIP VEGETATION AT GROUND LEVEL TO RETAIN ROOT MASS AND ENCOURAGE REESTABLISHMENT OF NATIVE VEGETATION. BUILDING AND RELATED STRUCTURES MAY NOT BE CONSTRUCTED INSIDE THE RIPARIAN MANAGEMENT AREA H) (CRITERIA 17) HEAVY EQUIPMENT - HEAVY EQUIPMENT WILL BE SELECTED AND OPERATED AS NECESSARY TO MINIMIZE ADVERSE EFFECTS ON THE ENVIRONMENT; AND ALL VEHICLES AND OTHER HEAVY EQUIPMENT WILL BE USED AS FOLLOWS:
 - (A.) STORED, FUELED AND MAINTAINED IN A VEHICLE STAGING AREA PLACED 150 FEET OR MORE FROM ANY WATERBODY, OR IN AN ISOLATED HARD ZONE SUCH AS A PAVED PARKING LOT.

 (B.) INSPECTED DAILY FOR FLUID LEAKS BEFORE LEAVING THE VEHICLE STAGING AREA FOR
 - OPERATION WITHIN 50 FEET OF ANY WATERBODY.

 (C.) STEAM-CLEANED BEFORE OPERATION BELOW ORDINARY HIGH WATER, AND AS OFTEN AS NECESSARY DURING OPERATION TO REMAIN FREE OF ALL EXTERNAL OIL, GREASE, MUD, SEEDS, ORGANISMS AND OTHER VISIBLE CONTAMINANTS.
 - (D.) GENERATORS, CRANES AND ANY OTHER STATIONARY EQUIPMENT OPERATED WITHIN 150 FEET OF ANY WATERBODY WILL BE MAINTAINED AND PROTECTED AS NECESSARY TO PREVENT LEAKS AND SPILLS FROM ENTERING THE WATER I) (CRITERIA 18)

IN-WATER WORK PERIOD -

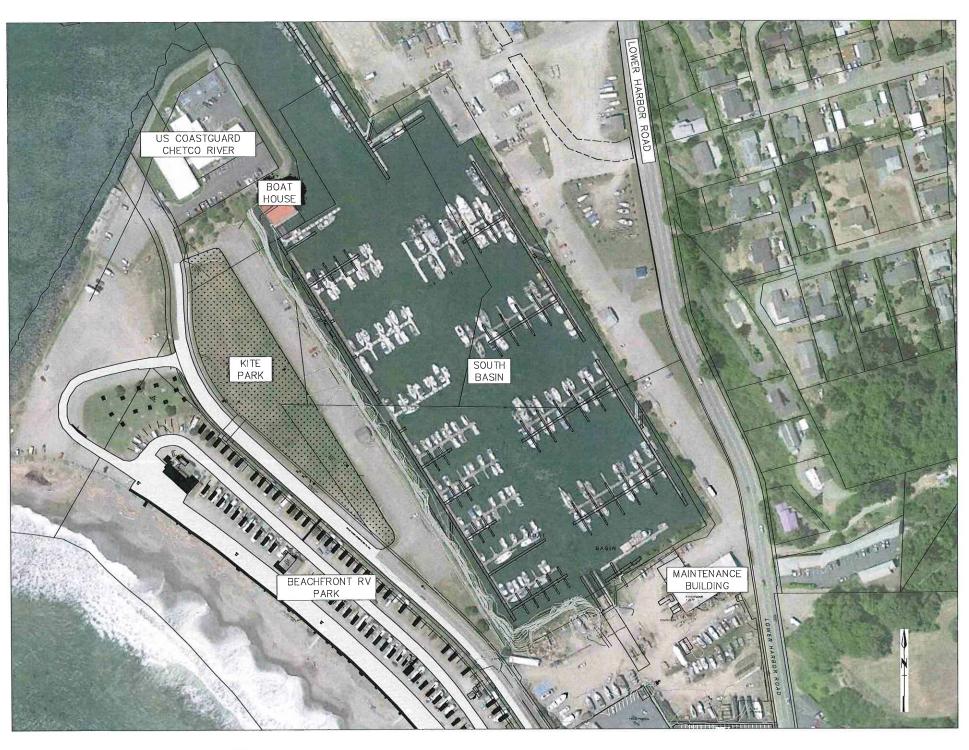
- ALL WORK WITHIN THE ACTIVE CHANNEL WILL BE COMPLETED IN ACCORDANCE WITH THE OREGON GUIDELINES FOR TIMING OF IN-WATER WORK TO PROTECT FISH AND WILDLIFE RESOURCES (ODFW 2000, OR THE MOST RECENT VERSION).
- J) (CRITERIA 21) EMBANKMENT INSTALLATION <TBC>
- K) (CRITERIA 24) SUBGRADE PREPARATION <TBC>



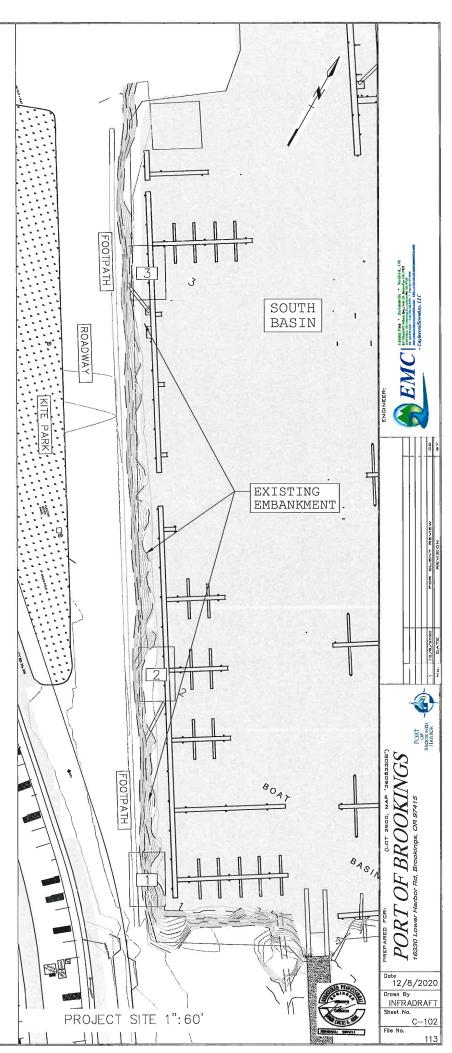
BOTTO DE STATE NO. 11.3

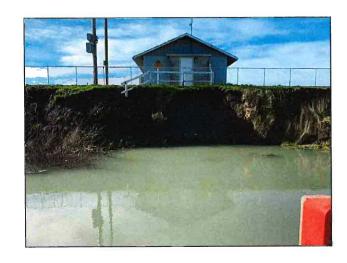
OF BROOKINGS

EMC



EXISTING CONDITIONS SCALE 1":100'













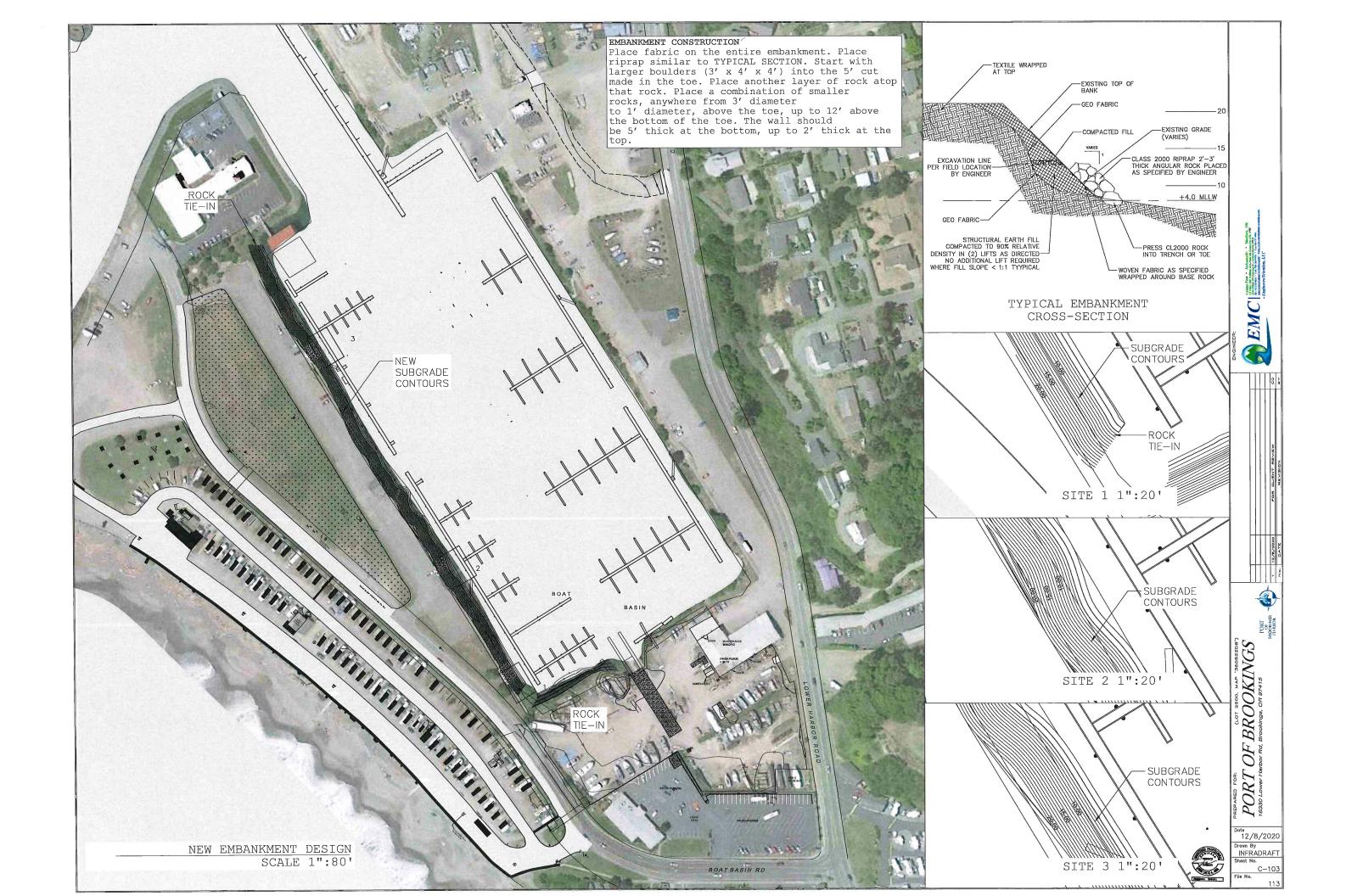












Design Specifics of Rock & Construction The rock used (if 406 Mitigation is approved) for this project will be specified to follow test requirements found within AASHTO 85 (Apparent specific gravity, percent absorption); ODOT TM 208A (degradation); and AASHTO T 104 (soundness). All rock specified in this project must be angular in shape, and the thickness of any single rock shall not be less than one third of its length. Round rock will not be accepted unless authorized by EMC. The rock must meet the gradation requirements for the class specified, be free from overburden, spoiled, shale and organic material. Non-durable rock, shale or rock with shale seams is not acceptable. Class 2000 rip rap is by definition comprised of rocks that are 20% by weight of 1400 pounds to 2000 pounds, 30% by weight of 700 to 1400 pounds, 40% by weight 40 to 700 pounds and 0 to 10% 0 to 40 pounds. Either a filter blanket of 16 inch layer of class

50, or specified filter fabric will be laid beneath the rock.

A clamshell, orange peel bucket, skip or similar approved device will be used which will transport the riprap material to its final destination. This revetment repair is for flow assumed to generally be uniform, steady and subcritical. However, rapidly varying, unsteady flow conditions occur occasionally, and excessive wave action, hydraulic jumps and extreme flow turbulence can occur at this location. These conditions are among the reasons for the extent of protection proposed. The longitudinal extent of this repair should be continuous for a distance greater than the length that is impacted. The vertical extent of protection required for this revetment includes design height and foundation or toe depth. The design height of the rip rap installation is to be equal to the design high water elevation (King tide plus storm surge) with adequate freeboard to accommodate wave action, super elevation from the channel bend, hydraulic jump, and flow irregularities, plus erratic phenomena such as unforeseen embankment settlement, accumulation of

Scour depth is estimated at about 4 feet from the lowest elevation in the cross-section of the basin at this point, utilizing the conservative assumption of a median diameter of bed material to be about 0.15 m. Riprap thickness for Class 2000 is specified to be at least a 4 foot layer.

The filter beneath the riprap and overlying the structural fill is to prevent the migration of fine soil particles through structural voids and to distribute the weight of the armoring units (riprap) to provide more uniform settlement, and also permits relief of hydrostatic pressures within the soils.

For the areas above the waterline at any given time the fabric or geotextile also prevents surface water from causing erosion beneath the rip rap. In addition to toe considerations with respect to scour the flanks of this revetment are designed for upstream and downstream conditions

General Construction, Erosion & Control Notes

Final bank slope will be between 1V:1.5H and 1V:2H. Bank preparation will consist of clearing debris and minor grading. Riprap placement will be by machine placing and hand placing. Hand placing will be performed as specified by EMC on steeper side slopes.

Re-handling or dragging to smooth revetment services tend to result in segregation and breakage of stone and are to be avoided. Stone will not be dropped from an excessive height.

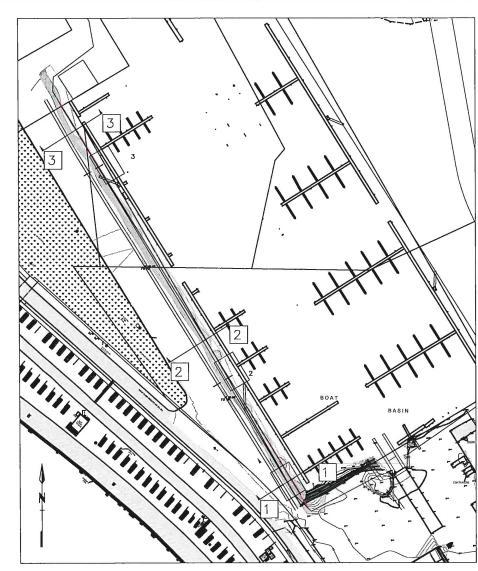
Actions that will require the use of materials that are hazardous or toxic to aquatic life (such as motor fuel, oil, or drilling fluid), are included within the pollution and erosion control plan sections of this narrative, to be managed by EMC and enforced by the Port of Brookings-Harbor. The plan includes practices to minimize erosion and sedimentation associated with all aspects of the project (e.g., staging areas, stockpiles, grading); to prevent debris from dropping or otherwise entering any stream or waterbody; and to prevent and control hazardous material spills.

Erosion controls will be monitored and maintained daily during the rainy season and weekly during the dry season as necessary to ensure controls are properly functioning. If monitoring shows that the erosion controls are ineffective at preventing visible sediment discharge, the project will stop to evaluate erosion control measures. Repairs, replacements or the installation of additional erosion control measures will be completed before the project resumes.

If applicable, maintenance will include removal of sediment and debris from erosion controls like silt fences or hay bales once it has reached on-third of the exposed height of the control. Whenever practical, native materials are to be left where they are found and in areas to be cleared, vegetation is to be clipped at ground level to retain root mass and encourage reestablishment of native vegetation.

Heavy equipment will be selected and operated as necessary to minimize adverse effects on the environment (e.g., minimally-sized, low pressure tires, minimal hard turn paths for tracked vehicles, temporary mats or plates within wet areas or sensitive soils); and all vehicles and other heavy equipment will

- 1) Stored, fueled and maintained in a vehicle staging area placed 150 feet or more from any waterbody, or in an isolated hard zone such as a paved parking lot, or lined surface;
- 2) Inspected daily for fluid leaks before leaving the vehicle staging area for operation within 50 feet of any waterbody;
- 3) Steam-cleaned before operation below ordinary high water, and as often as necessary during operation to remain free of all external oil, grease, mud, seeds, organisms and other visible contaminants and
- 4) Generators, cranes and any other stationary equipment operated within 150 feet of any waterbody will be maintained and protected as necessary to prevent leaks and spills from entering the water.



SITES 1, 2, 3 SECTION LINES

Nonwoven Geotextile

15' x 300' 25.0 in

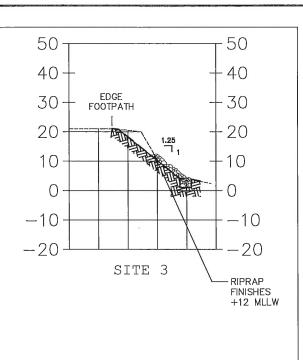
NTPEP APPROVED - GTX-2013-01-019. US 300NW is a nonwoven needlepunched geotextile made of 100% polypropylene staple filaments. US 300NW resists ultraviolet and biological deterioration, rotting, naturally encountered basics and acids. Polypropytene is stable within a pH range of 2 to 13, US 300NW meets the following M.A.R.V. values except where noted:

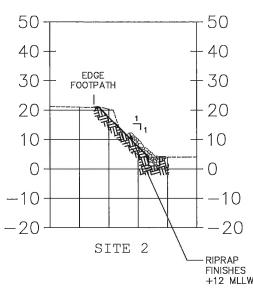


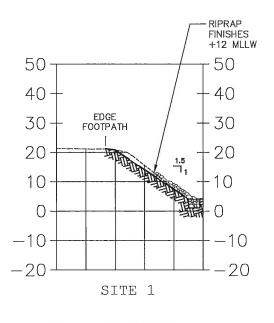
Gaotaxile	Subgrade	none Superator	
PROPERTY	TEST METHOD	ENGLISH	METRIC
Weight - Typical	ASTM D-5261	12 oz/sy	407 g/sm
Tensile Strength	ASTM D-4632	300 lbs	1,335 N
Elongation @ Break	ASTM D-4632	50%	50%
Mullen Burst*	ASTM D-3786*	580 psi	3,999 kPa
Puncture Strength*	ASTM D-4833*	180 lbs	801 N
CBR Puncture	ASTM D-6241	850 lbs	3,782 N
Trapezoidal Tear	ASTM D-4533	115 lbs	511 N
Apparent Opening Size	ASTM D-4751	100 US Siev	e 0.150 mm
Permittivity	ASTM D-4491	1.00 Sec-1	1.00 Sec-1
Water Flow Rate	ASTM D-4491	75 g/min/sf	3,055 1/min/si
UV Resistance @ 500 Ho	urs ASTM D-4355	70%	70%
ROLL SIZE ROLL DIA	METER AREA WI	EIGHT	

500 sys 380 lbs

VOLUME	REPORT	•
(APPRO)	(IMATE)	
GEOTEXTILE FABRIC	4498	SQ YD
CLASS 2000 RIP RAP	2462.34	CU YD
CUT	1792	CU YD
FILL	966	CU YD







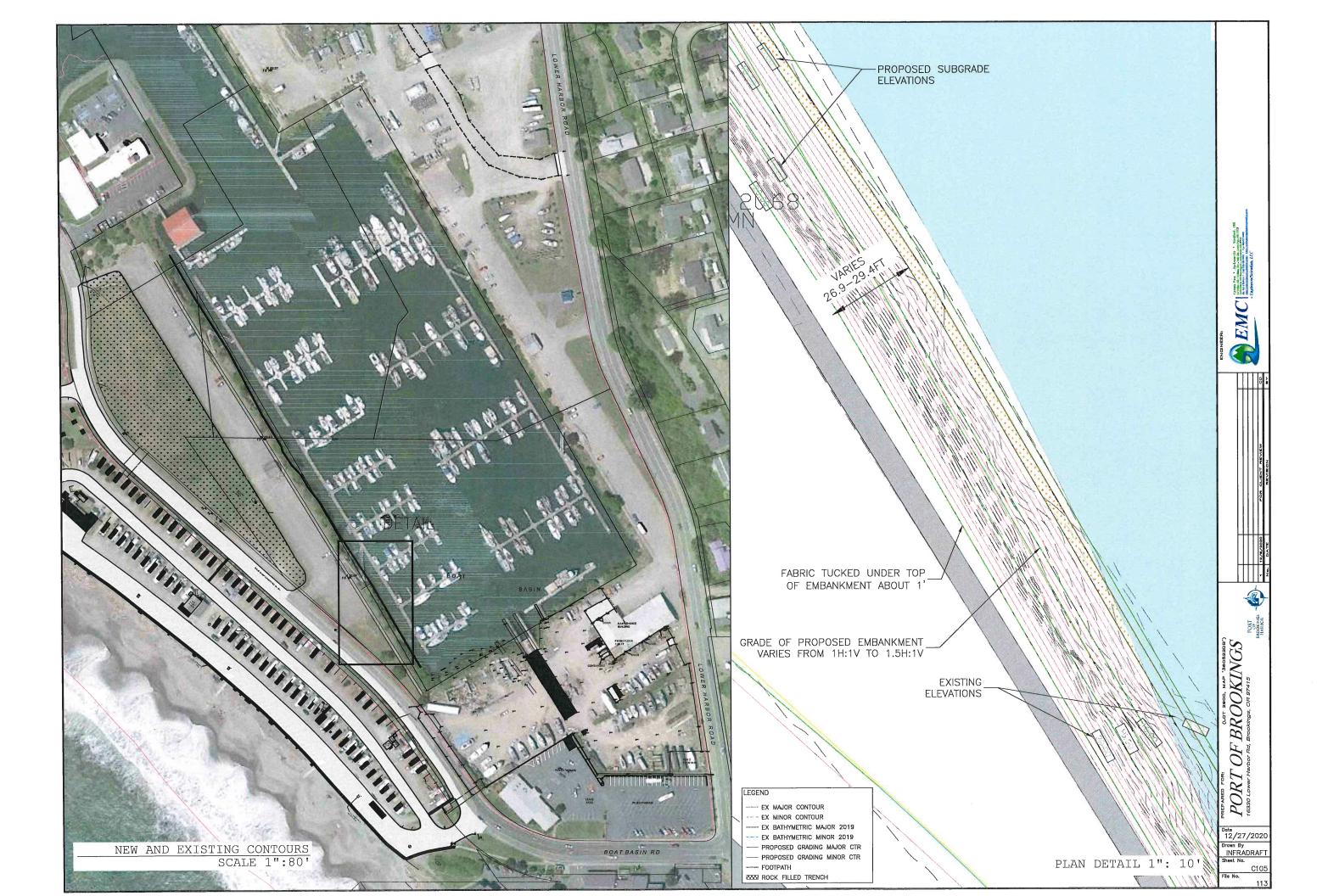
CROSS-SECTIONS NTS

OF. PORT 12/8/2020 Drawn By INFRADRAF

BROOKINGS

EMC

500 sys 380 lbs







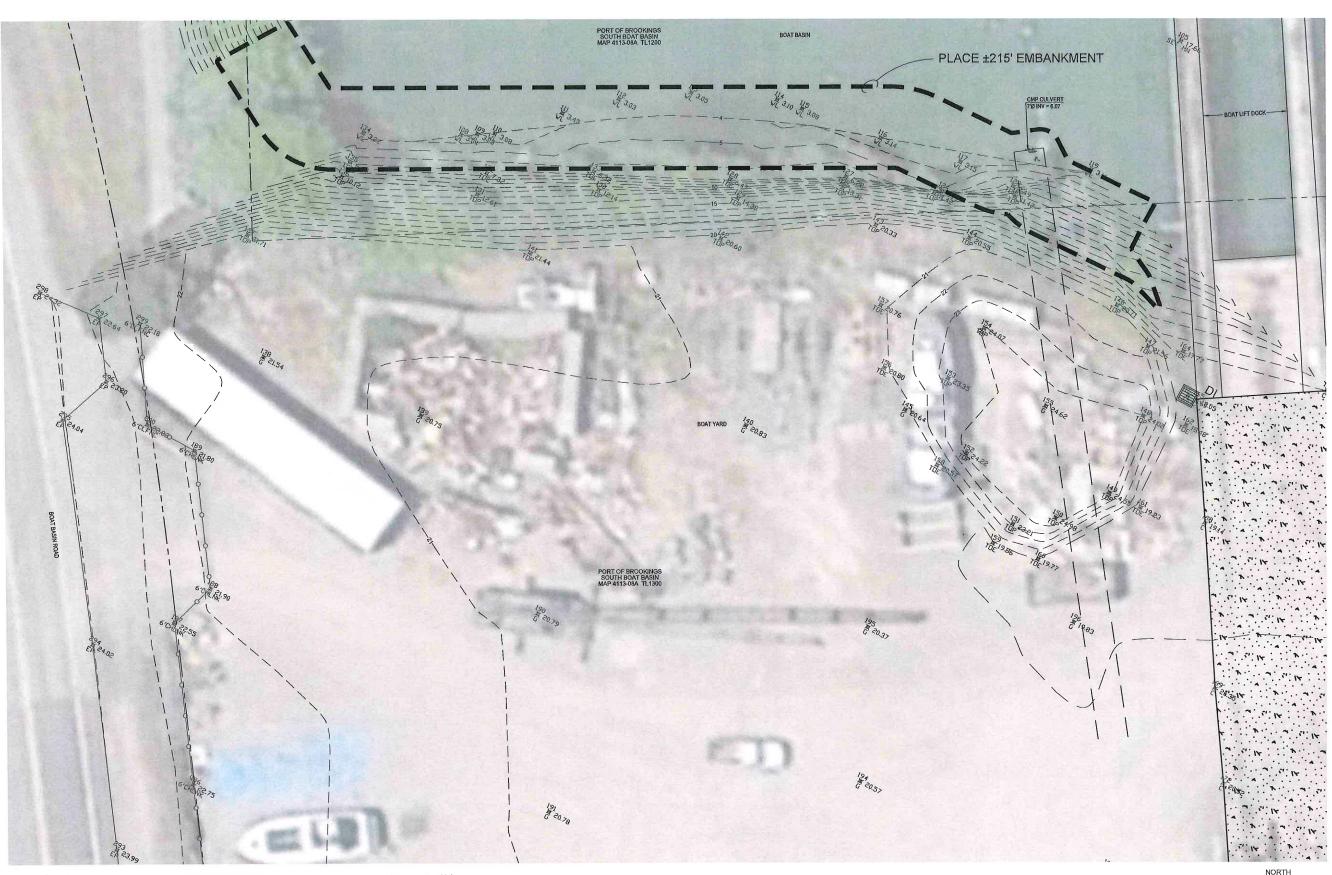


PORT OF BROOKINGS HARBOR 16330 LOWER HARBOR ROAD, BROOKINGS, OR 97415 SOUTH BOAT BASIN WALL

DRAWN BY: JG DATE: 18 APR 2021 JOB No:

SHEET No:

C0.0 COVER SHEET



SURVEY BY ROBERTS & ASSOCIATES LAND SURVEYING, INC. 611 SPRUCE STREET BROCKINGS, OR 97415 (541) 469-0162 HORIZONTAL DATUM
OREGON COORDINATE REFERENCE SYSTEM (OREGON COAST
ZONE) AS DEFINED IN OREGON ADMINISTRATIVE RULES
734-005-005 THRU 734-005-005 15. COORDINATES WERE
CONSTRAINED TO THE OREGON REAL-TIME (GPS) REFERENCE
NETWORK (GRON) REFERENCED TO NAD 83(2011) EPOCH 2010,
INTERNATIONAL FEET, WITH A RELATIVE ACCURACY OF <2cm.

VERTICAL DATUM
MEAN LOWER LOW WATER EPOCH 1983-2001.
BENCH MARK UITLIZED FOR THIS SURVEY
US ARMY CORPS OF ENGINEERS
BENCH MARK - FUEL 2*
LEVATION - 21.65 FEET



EXISTING CONDITIONS



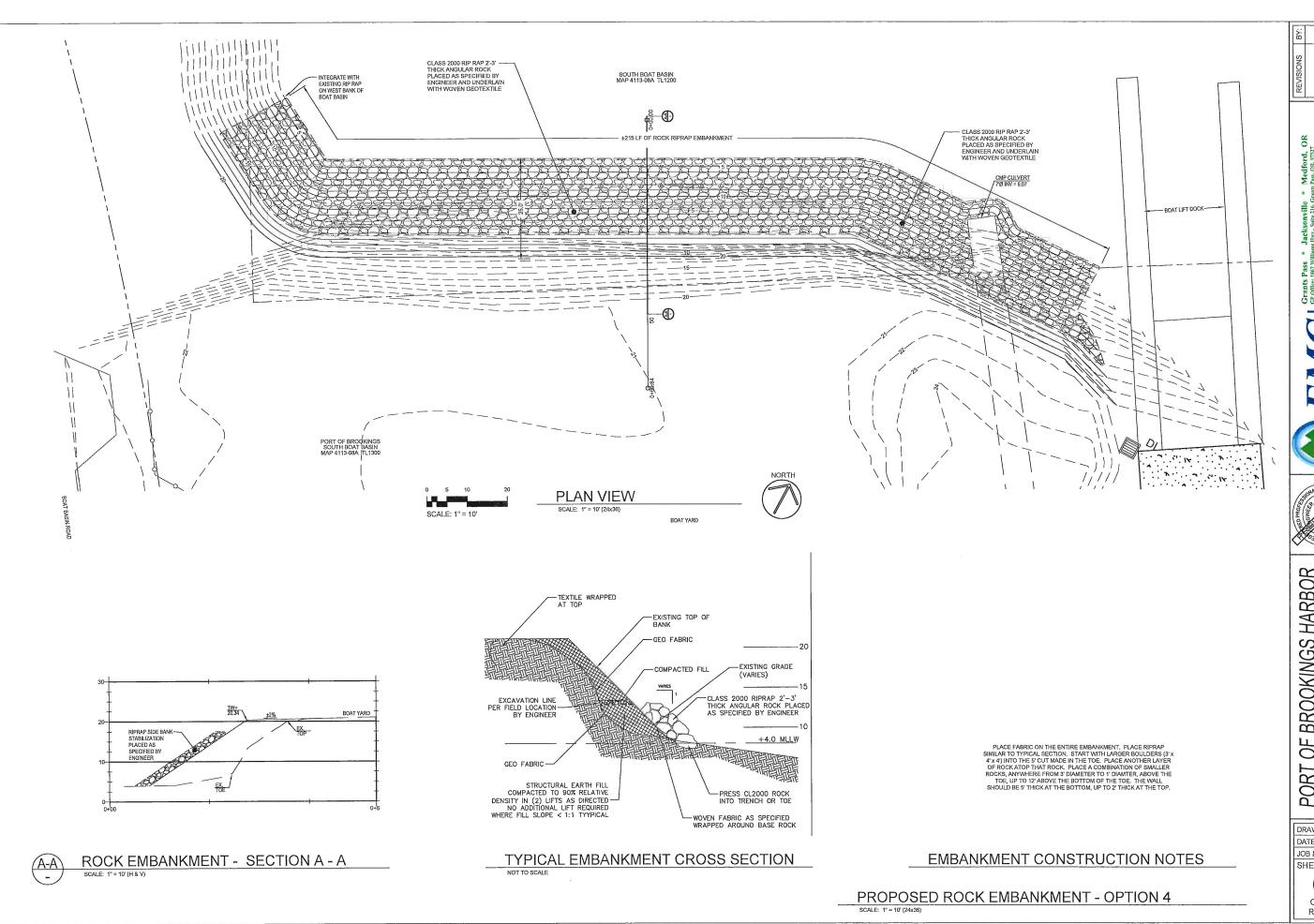
DRAWN BY: JG
DATE: 18 APR 2021
JOB No: #

PORT OF BROOKINGS HARBOR 16330 LOWER HARBOR ROAD, BROOKINGS, OR 97415 SOUTH BOAT BASIN WALL

EM

SHEET No: C1.0

EXISTING CONDITIONS



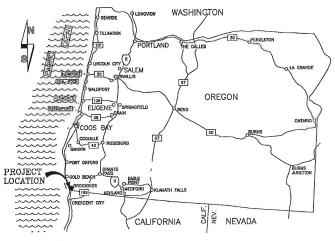
Medford, (5 Pass, OR, 97527 2, 97530 Grants Pass * J GP Office: 1867 Williams Julie Office: 450 Conestop Ph: 541-774-9434 * Cell: emc@emcengineersscie Engineers/Scien

PORT OF BROOKINGS HARBOR 16330 LOWER HARBOR ROAD, BROOKINGS, OR 97415 SOUTH BOAT BASIN WALL

DRAWN BY: JG DATE: 18 APR 2021 JOB No:

SHEET No: C2.0

OPTION 4 **ROCK WALL**





PORT OF BROOKINGS HARBOR

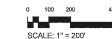
KITE FIELD RV PARK



KITE FIELD PARK EXTENTS



PROJECT OVERVIEW



SHEET INDEX

- C1.0 PROJECT DETAILS
- C1.1 EXISTING CONDITIONS
- C2.2 SEQUENCING
 C2.3 CROSS SECTIONS
- C3.0 PRELIMINARY RV LAYOUT

- C4.2 GENERAL NOTES C5.0 EROSION CONTROL PLAN
- C5.1 EROSION CONTROL NOTES
 C5.2 EROSION CONTROL DETAILS

- C2.0 SEQUENCING C2.1 SEQUENCING

- C2.4 CROSS SECTIONS C2.5 CROSS SECTIONS
- C4.0 ROAD SECTIONS C4.1 DRAINAGE DETAILS

DRAWN BY: DATE: 21 MAR 2021 JOB No: PB116 SHEET No: C1.0 PROJECT DETAILS

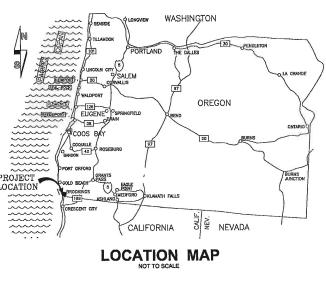
PORT OF BROOKINGS HARBOR 16330 LOWER HARBOR ROAD, BROOKINGS, OR 97415

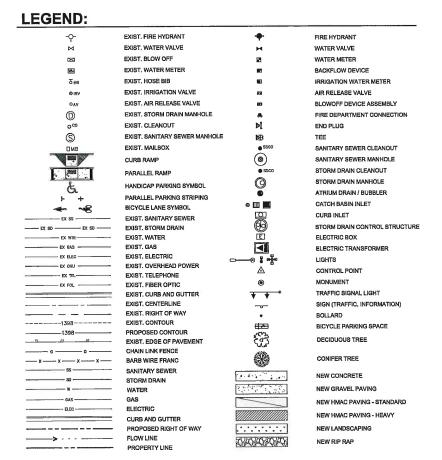
PARK

FIELD RV F

KITE

EMC

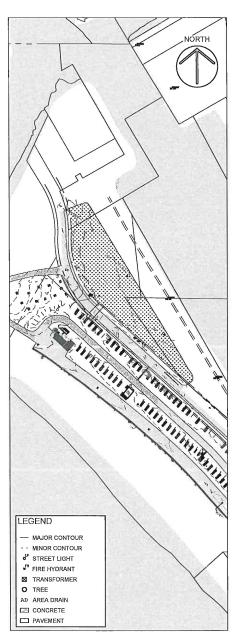






PORT OF BROOKINGS HARBOR TAX LOTS

SCALE: NOT TO SCALE



PORT OF BROOKINGS HARBOR TOPOGRAPHIC SURVEY

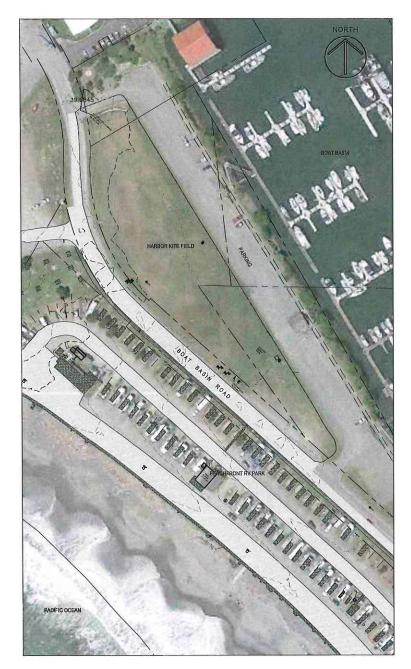


PORT OF BROOKINGS HARBOR EXISTING ACTION AREA

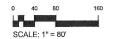


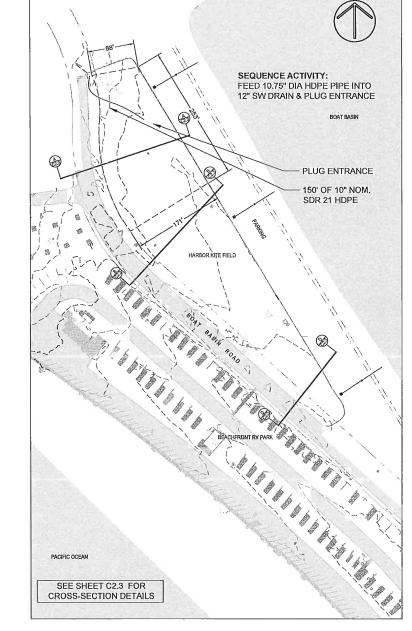
PORT OF BROOKINGS HARBOR 16330 LOWER HARBOR ROAD, BROOKINGS, OR 97415 KITE FIELD RV PARK

DRAWN BY: JG
DATE: 21 MAR 2021
JOB NO: PB116
SHEET NO:
C1.1
EXISTING
CONDITIONS



SEQUENCE #0: EXISTING CONDITIONS





SEQUENCE #1: SEDIMENT & COLLECTION AREA



PORT OF BROOKINGS HARBOR
ON THE FIELD RV PARK

C2.0

SEQUENCING

Grants Pass * Jacksonville * Mediord, CP Ones, 1978.

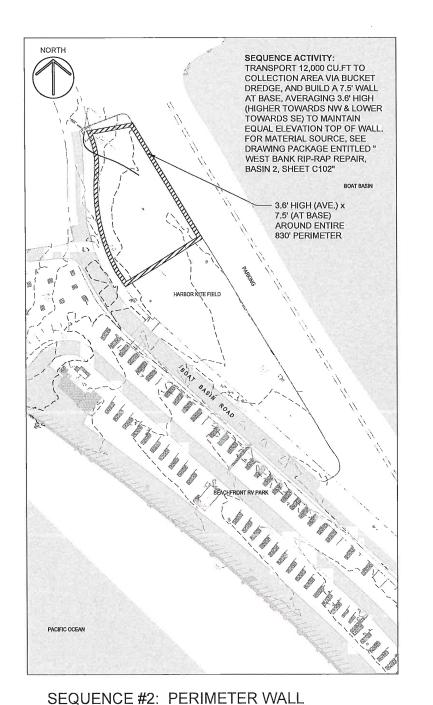
Per Ones, 1978.

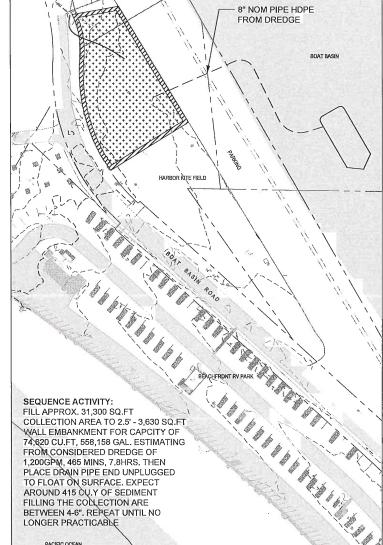
Per St. A. Charles Bo. Candergo P. C. Edskamils, One 7550

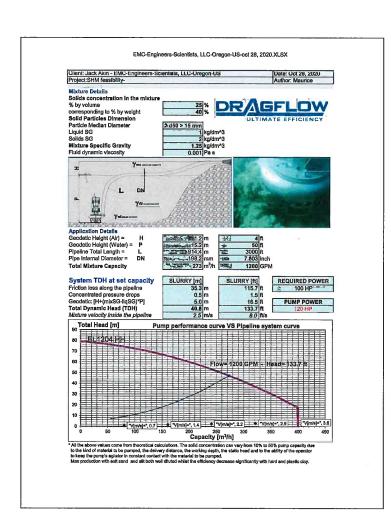
Per St. A. C. Per C. C. Ed. St. 1978.

Per St. A. C. Per C. C. Ed. St. 1978.

Engineers/Solentists, District Received in Particles Rec







SEQUENCE #3: FILLING PART 1

SCALE: 1" = 80'



SEDIMENT DRAGFLOW SPECIFICATIONS



Grants Pass * Inclsonville * Medford, OR Company of Com

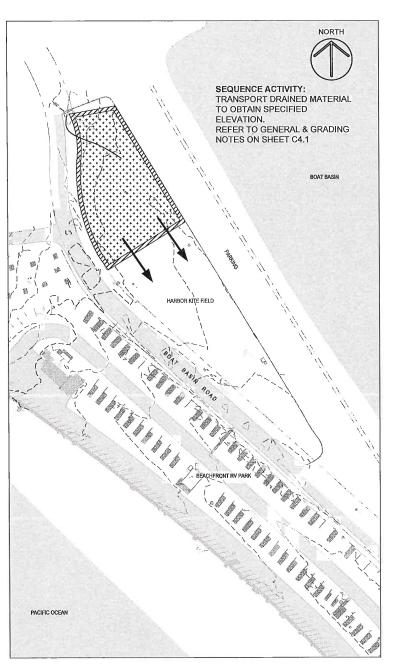




PORT OF BROOKINGS HARBOR 16330 LOWER HARBOR ROAD, BROOKINGS, OR 97415 KITE FIELD RV PARK

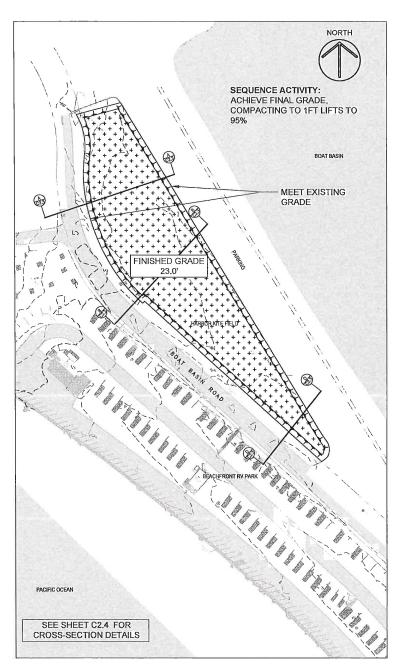
DRAWN BY: DATE: 21 MAR 2021 JOB No: PB116 SHEET No: C2.1

SEQUENCING



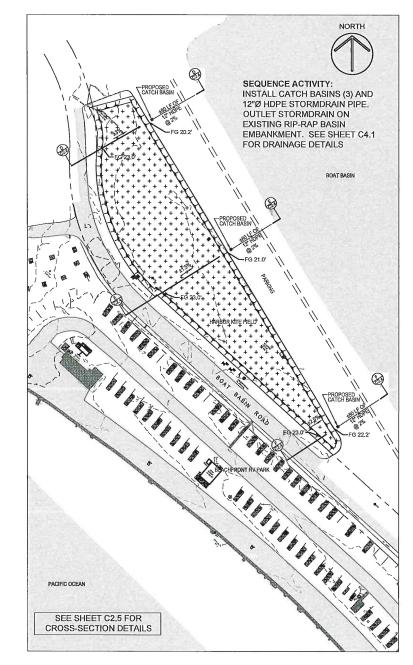
SEQUENCE #4: TRANSPORT MATERIAL





SEQUENCE #5: GRADING AND COMPACTION





SEQUENCE #6: DRAINAGE





Grants Pass * Jacksonville * Mediord, CP Ones; 1978.

Ref Ones; 1978.

Alle Gless: 490 Camergo P. Askarnila, 607.529

Pristart-Art One Statistics on Prestrict-Sass

pristart-Art One Statistics on Prestrict-Sass

prestricted and Prestrict on Statistics on Prestrict-Sass

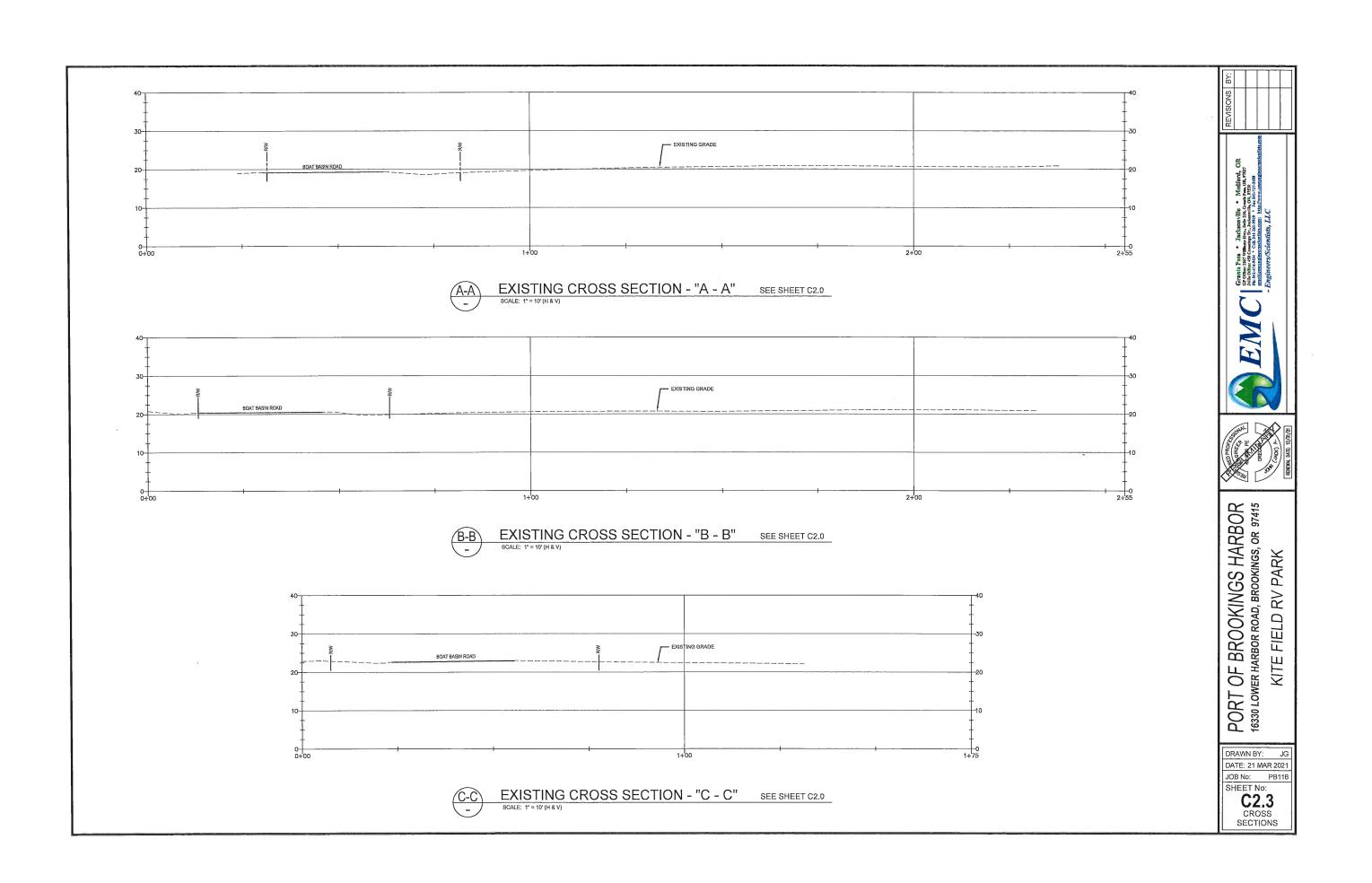
prestricted and Prestrict on Statistics on Prestrict on Pre

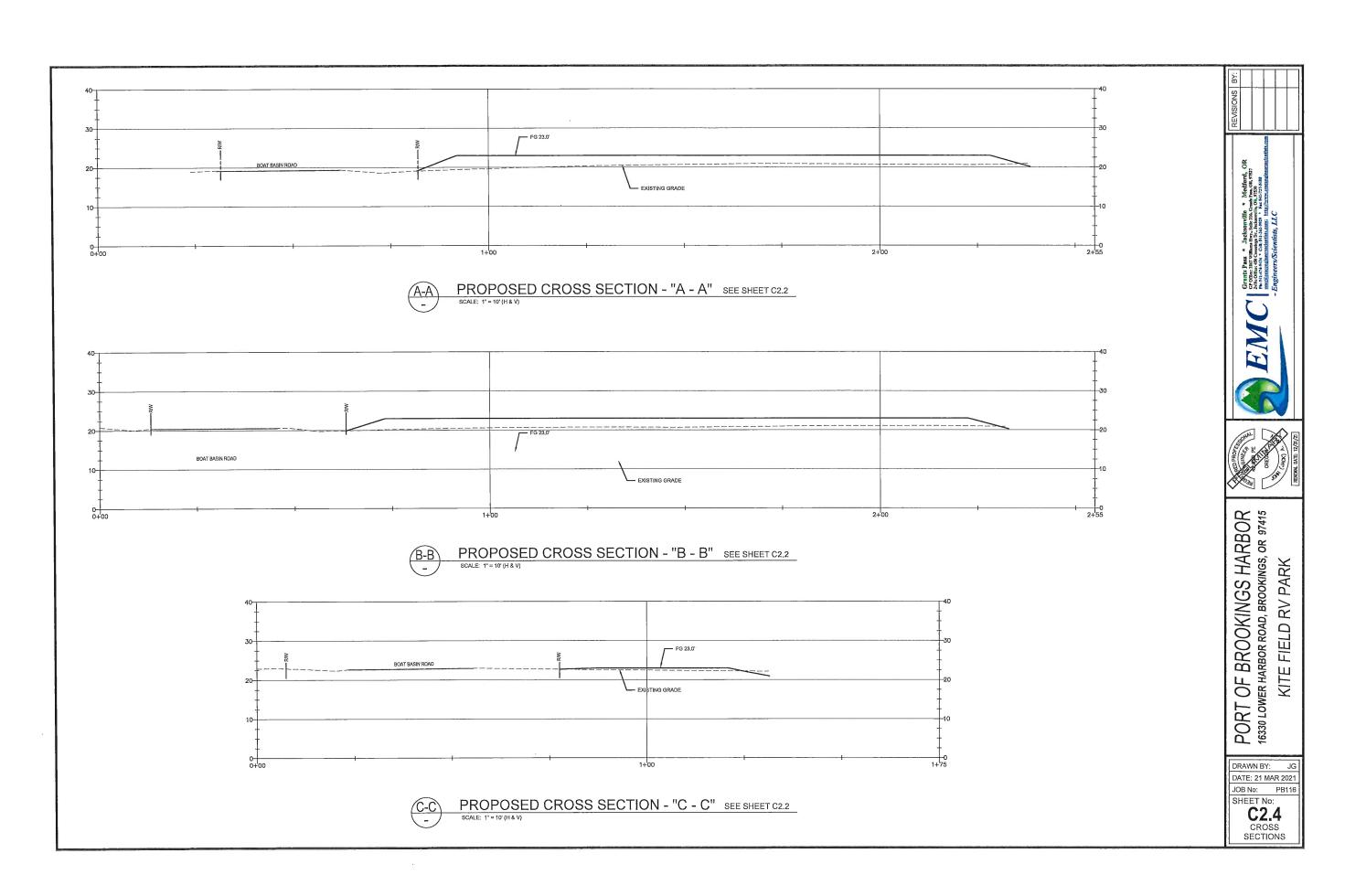


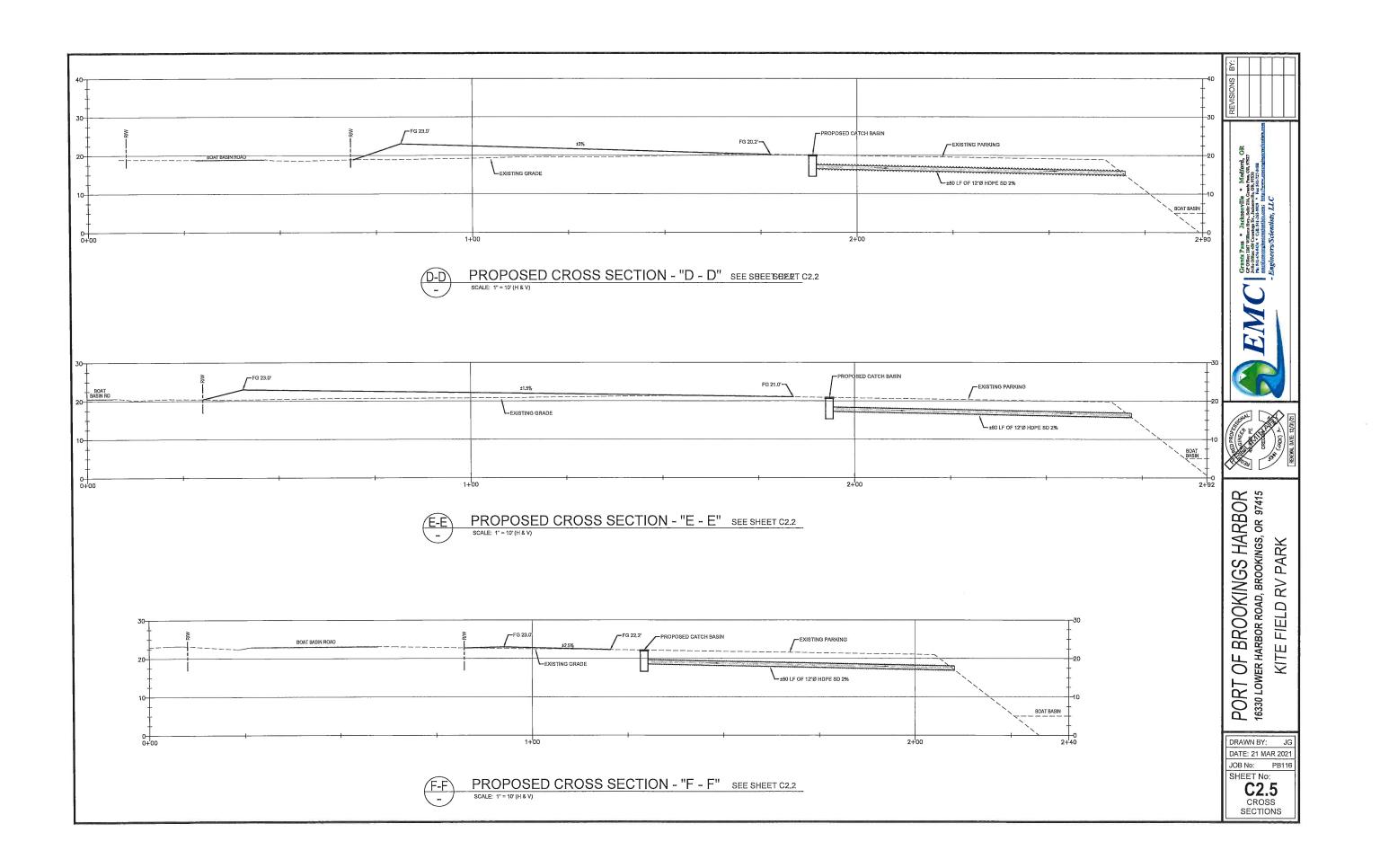
PORT OF BROOKINGS HARBOR 16330 LOWER HARBOR ROAD, BROOKINGS, OR 97415 KITE FIELD RV PARK

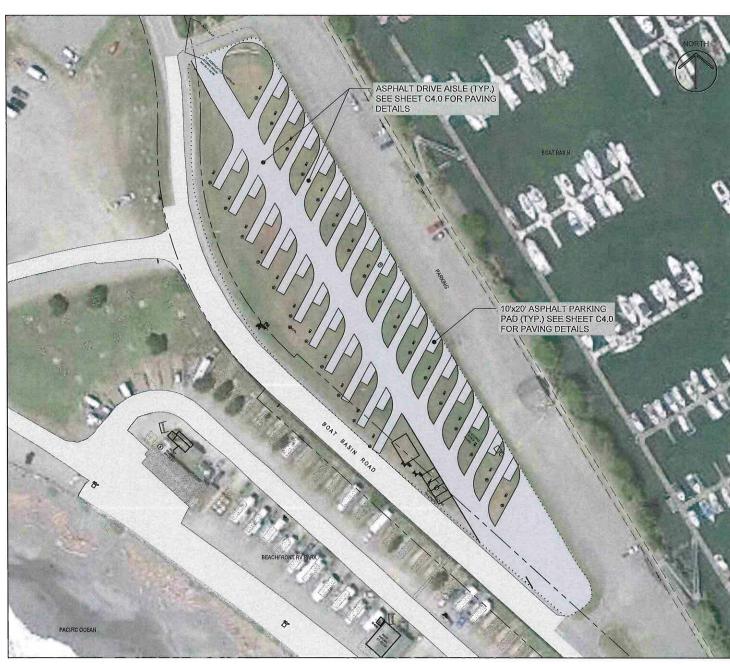
DRAWN BY: DATE: 21 MAR 2021 JOB No: PB116 SHEET No: C2.2

SEQUENCING







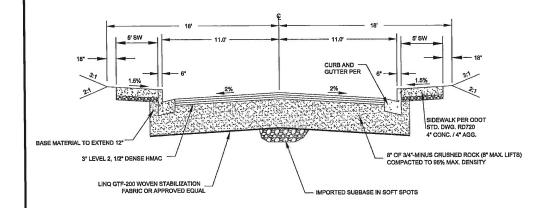


0 25 50 100 SCALE: 1" = 50' PORT OF BROOKINGS HARBOR
16330 LOWER HARBOR ROAD, BROOKINGS, OR 97415
KITE FIELD RV PARK

Grants Pass * Jacks
Grants Pass * Jacks
Grants Pass * Grants Pass
Julia Outer sto Occassor Pars
Julia Outer sto Constructor
To Constructor
Engineers/Scientists
- Engineers/Scientists

DRAWN BY: JG
DATE: 21 MAR 2021
JOB No: PB116
SHEET No:
C3.0
PRELIMINARY
RV LAYOUT

KITE FIELD RV PARK PRELIMINARY LAYOUT SCALE: 1" = 50' (24x36)





THE PORT OF BROOKINGS HARBOR STREET STANDARDS

1. AGGREGATE BASE AND SUBBASE SHALL BE INSTALLED IN MAXIMUM 6" LIFTS AND MECHANICALLY COMPACTED TO MINIMUM 98% OF THE MAXIMUM DENSITY IN ACCORDANCE WITH THE AASHTOT-99 METHOD.

JUST PRIOR TO PAYING, THE AGGREGATE BASE SHALL BE PROOF ROLLED. AGGREGATES THAT DO NOT PASS PROOF ROLL TESTING SHALL BE REMOVED, RECOMPACTED, AND

STREET SECTION

- TESTED AGAIN TO INSTALLING AGGREGATE BASE ROCK THE SUBGRADE SHALL BE PROOF ROLLED. SUBGRADE MATERIAL THAT DOES NOT PASS PROOF ROLL TESTING SHALL BE REMOVED AND ADDITIONAL GRUSHED ROCK INSTALLED.

 4. PAVEMENT SECTION IS BASED ON THE ASSUMPTION THAT PAVEMENT CONSTRUCTION WILL
- BE ACCOMPLISHED DURING THE DRY SEASON.

 5. PAVEMENTS SUBJECT TO CONSTRUCTION TRAFFIC MAY REQUIRE REPAIR.

GENERAL NOTES

- MAXIMUM CUT AND FILL SLOPES SHALL BE MAXIMUM OF 3:1 FOR FILL AND MAXIMUM OF 2:1 FOR CUT.
- PUE GRADE AS SHOWN. EMBANKMENT, WHERE REQUIRED, SHALL BE CONSTRUCTED FROM SELECT NATIVE SOILS.
- IMPORTED SUBBASE (WHERE APPLICABLE) TO BE 4"-0" CRUSHED ROCK.

CONCRETE NOTES

- PROVIDE A MINIMUM 8' TRANSITION SECTION WHEN JOINING CURBS OF DIFFERENT CROSS
- SECTIONS.

 CONCRETE SHALL NOT BE PLACED UNTIL FORMS HAVE BEEN INSPECTED AND APPROVED.

 CONCRETE SHALL BE COMMERCIAL GRADE RETAINING THE FOLLOWING

 CHARACTERISTICS: ENTRAINED AIR 4.0% TO 7.0%; SLUMP 5 INCHES OR LESS;

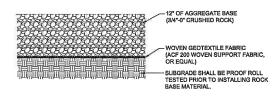
 COMPRESSIVE STRENGTH MINIMUM 3,000 PSI AT 28 DAYS; TEMPERATURE MINIMUM 50°F

 TO MAXIMUM 90°F.

 ALL CONCRETE STRUCTURES REINFORCED WITH REBAR SHALL BE VIBRATED TO REMOVE

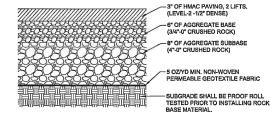
 VOIDS.

- 4. ALL CONCRETE STRUCTURES REINFORCED WITH REBAR SHALL BE VIBRATED TO REMOVE VOIDS.
 5. SURFACE SHALL HAVE A FINISHED TEXTURE THAT WILL NOT BE SLICK WHEN WET (MEDIUM BROOM FINISH), CURING COMPOUND MAY BE APPLIED IMMEDIATELY AFTER CONCRETE IS FINISHED. WHITE PIGMENT RECOMMENDED, CLEAR ACCEPTABLE.
 5. AN EOGING TOOL SHALL BE USED ON ALL EDGES AND JOINTS.
 7. PROVIDE CONTRACTION JOINTS AT 15' INTERVALS AND 'DUMMY' TOOLED JOINTS AT 5' INTERVALS AND 'DUMMY' TOOLED JOINTS AT 5' INTERVALS AND 'DUMMY' TOOLED JOINTS AT 6' INTERVALS AND 'DUMMY' TOOLED JOINTS AT 6' INTERVALS AND 'DUMMY' TOOLED JOINTS AT 5' INTERVALS AND 'DUMMY' TOOLED JOINTS AT 5' INTERVALS ON CURBS, SIDEWALKS AND APPROACHES. CONTRACTION JOINT GOOVES SHALL BE AT MINIMUM, 1'' DEEP OR ONE-THIRD THE THICKNESS OF THE CONCRETE.
 5. PROVIDE EXPANSION JOINTS OPPOSITE REJUTTING EXPANSION JOINTS IN ABUTTING CONCRETE, AT EACH POINT OF TANGENCY IN THE STRUCTURE ALIGNMENT, BETWEEN DRIVEWAYS AND CONCRETE PAYMEMENT, AROUND POLES, POSTS, BOXES AND OTHER FIXTURES WHICH PROTRUDE THROUGH OR AGAINST THE STRUCTURES, AT ALL BCR'S AND ECRS, AT MAXIMUM OF 10' INTERVALS. EXPANSION JOINT MATERIAL SHALL BE OF THE BITUMINOUS, PREFORMED FILLER TYPE NOT LESS THAN 15' WIDE, PLACED FLUSH OR NO MORE THAN 116' BELOW THE CONCRETE SURFACE.
- MORE THAN 1/8" BELOW THE CONCRETE SURFACE. STRAIGHT LINE EDGES SHALL NOT VARY MORE THAN 1/4" UNDER A TWELVE-FOOT STRAIGHT
- 9. STRAIGHT LINE EDGES SHALL NOT VARY MORE THAN X' UNDER A TWELVE-POOT STRAIGHT EDGE.
 10. CURE AND PROTECT CONCRETE AFTER PLACING AND FINISHING, KEEP STRUCTURES FREE FROM CONTACT, STRAIN AND PUBLIC TRAFFIC FOR AT LEAST SEVEN DAYS OR LONGER AS DIRECTED. MIXES TO EXPEDITE CURING MAY BE USED WITH APPROVAL OF CITY ENGINEER.
 11. CONCRETE SHALL BE REMOVED TO THE NEAREST CONTRACTION JOINT, COLD JOINT OR CRACK WITHIN 4 OF THE REPLACEMENT AREA. CONCRETE SHALL BE SAW CUT WITH A SMOOTH, UNIFORM JOINT PROVIDED.
 12. EXISTING AC SHALL BE REMOVED THE PLACED ALONG ENTIRE CURB SECTION TO A MINIMUM 16" WIDTH UNLESS APPROVED BY ENGINEER OF RECORD.



- AGGREGATE BASE AND SUBBASE SHALL BE INSTALLED IN MAXIMUM 6" LIFTS AND MECHANICALLY COMPACTED TO MININUM 98% OF THE MAXIMUM DENSITY IN ACCORDANCE WITH THE AASHTOT-99 METHOD.
- 2. JUST PRIOR TO INSTALLING AGGREGATE BASE ROCK THE SUBGRADE SHALL BE PROOF ROLLED. SUBGRADE MATERIAL THAT DOES NOT PASS PROOF ROLL TESTING SHALL BE REMOVED AND ADDITIONAL CRUSHED ROCK INSTALLED.

EMERGENCY VEHICLE GRAVEL SECTION



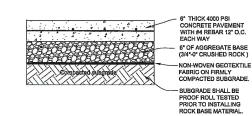
NOTES

- NOTES

 1. AGGREGATE BASE AND SUBBASE SHALL BE INSTALLED IN MAXIMUM 6* LIFTS AND
 MECHANICALLY COMPACTED TO MINIMUM 95% OF THE MAXIMUM DENSITY IN ACCORDANCE
 WITH THE ASHITOT 1-98 METHOD.

 2. JUST PRIOR TO PAVING, THE AGGREGATE BASE SHALL BE PROOF ROLLED. AGGREGATES
 THAT DO NOT PASS PROOF ROLL TESTING SHALL BE REMOVED, RECOMPACTED, AND
- THAT DO NOT PASS PROOF ROLL TESTING SHALL BE REMOVED, RECOMPACTED, AND TESTED AGAINSTALLING AGGREGATE BASE ROCK THE SUBGRADE SHALL BE PROOF ROLLED. SUBGRADE MATERIAL THAT DOES NOT PASS PROOF ROLL TESTING SHALL BE REMOVED AND ADDITIONAL CRUSHED ROCK INSTALLED. PAVEMENT SECTION IS BASED ON THE ASSIGNATION THAT PAVEMENT CONSTRUCTION WILL BE ACCOMPLISHED DURING THE DRY SEASON.

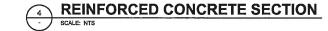
ASPHALT SECTION - DRIVE AISLES SCALE: NTS



NOTES

- 3/4"-0" AGGREGATE BASE SHALL BE INSTALLED IN MAXIMUM 6" LIFTS AND MECHANICALLY COMPACTED TO MINIMUM 95% OF THE MAXIMUM DENSITY IN ACCORDANCE WITH THE ASAPHO 1-09 METHOD 4.

 2. JUST PRIOR TO INSTALLING AGGREGATE BASE ROCK THE SUBGRADE SHALL BE PROOF
- ROLLED. SUBGRADE MATERIAL THAT DOES NOT PASS PROOF ROLL TESTING SHALL BE REMOVED, INSTALL ADDITIONAL CRUSHED ROCK PER ENGINEERS RECOMMENDATIONS.



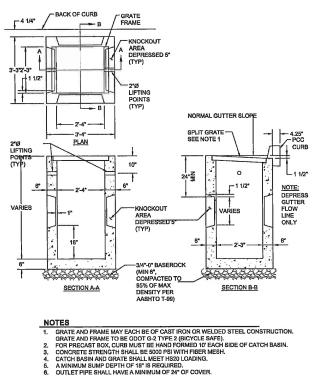


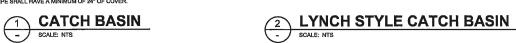


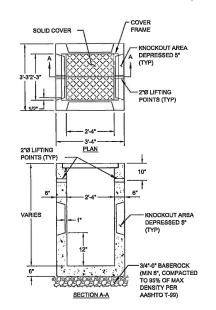


PORT OF BROOKINGS HARBOR 16330 LOWER HARBOR ROAD, BROOKINGS, OR 97415 \mathbb{R}^{N} FIELD

DRAWN BY: DATE: 21 MAR 2021 JOB No: PB116 SHEET No: C4.0 ROAD SECTIONS





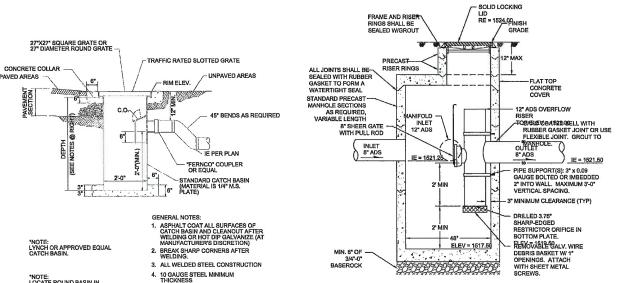


CONSTRUCTION NOTES:

- COVER AND FRAME MAY EACH BE OF CAST IRON OR
- WELDED STEEL CONSTRUCTION.
 2. CONCRETE STRENGTH SHALL BE 5000 PSI WITH FIBER MESH.
- 2. CONCRETE IN RENOTH STALL BE 3000 F31 WITH FIGHT MEST
 3. JUNCTION BASIN AND GRATE SHALL MEET HS20 LOADING.
 4. A MINIMUM SUMP DEPTH OF 18" IS REQUIRED.
 5. OUTLET PIPE SHALL HAVE A MINIMUM OF 24" OF COVER.

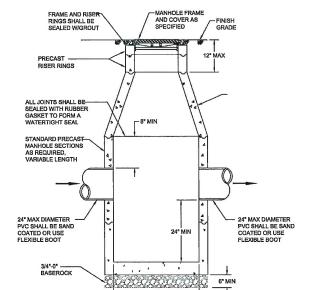
JUNCTION BASIN SCALE: NTS





ALL PRECAST SECTIONS SHALL CONFORM TO REQUIREMENTS OF ASTM C 478.

CONTROL STRUCTURE MANHOLE

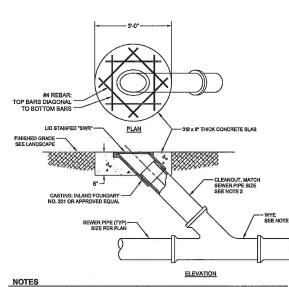


6. STANDARD DEPTH: 48"

*NOTE: LOCATE ROUND BASIN IN PAVED AREAS, AND SQUARE BASINS ARE TO BE USED WHEN LOCATED NEXT TO CURB

ALL PRECAST SECTIONS SHALL CONFORM TO REQUIREMENTS OF ASTM C 478.





CONCRETE TO BE COMMERCIAL GRADE CONCRETE (CGC) PER 2016 ODOT STANDARD SPECIFICATIONS SECTION 00440. MINIMUM 3000 PSI COMPRESSIVE STRENGTH AT 28 DAYS.
 FITTINGS AND PIPE TO BE GASKETED PVC SDR 26.

6 TYPICAL CLEANOUT
- SCALE: NTS

Grants Pass * Jacksonville * Medford, OR Come in with the State of the





PORT OF BROOKINGS HARBOR 16330 LOWER HARBOR ROAD, BROOKINGS, OR 97415 PARK R FIELD KITE

DRAWN BY: JG DATE: 21 MAR 2021 JOB No: PB116

SHEET No: C4.1 DRAINAGE DETAILS

GENERAL NOTES

- 1. ALL WORK SHALL BE IN CONFORMANCE WITH ALL FEDERAL, STATE, AND LOCAL CODES. SPECIFICATIONS AND STANDARDS SHALL MEAN, AND ARE INTENDED TO BE, THE LATEST EDITION, AMENDMENT OR REVISION OF SUCH REFERENCE STANDARD IN EFFECT AS OF THE DATE OF THE CONTRACT DOCUMENTS. APPLICABLE CODES INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

 - CURRENT OREGON STRUCTURAL SPECIALTY CODE CURRENT OREGON PLUMBING SPECIALTY CODE CURRENT OREGON ELECTRICAL SPECIALTY CODE NATIONAL FIRE PROTECTION ASSOCIATION
- CURRENT CURRY COUNTY STANDARDS SPECIFICATIONS FOR PUBLIC WORKS INFRASTRUCTURE.
- 2. WORK AND MATERIALS SHALL CONFORM TO THE PROVISIONS OF THE CURRENT "STANDARD SPECIFICATIONS FOR CONSTRUCTION", ODOT/AMERICAN PUBLIC WORKS ASSOCIATION (APWA), UNLESS OTHERWISE COVERED BY THE SPECIFICATIONS WRITTEN FOR THIS PROJECT OR THE COUNTY
- 3. ALL WORK PERTAINING TO THIS PROJECT SHALL BE SUBJECT TO INSPECTION BY THE PROJECT ENGINEER AND/OR CITY ENGINEER. PRIOR TO ANY SITE WORK, THE CONTRACTOR SHALL CONTACT THE CITY AND PROJECT ENGINEER TO SCHEDULE A PRE-CONSTRUCTION CONFERENCE.
- 4. PRIOR TO ANY SITE DISTURBING ACTIVITY INCLUDING CLEARING, LOGGING OR GRADING, THE SITE BOUNDARIES & CLEARING LIMITS AS SHOWN ON THESE PLANS SHALL BE LOCATED AND FIELD IDENTIFIED BY THE PROJECT SURVEYOR AND ALL ESC MEASURES SHALL BE INSTALLED AS IDENTIFIED ON THE EROSION & SEDIMENT CONTROL PLAN.
- 5. A COPY OF THESE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS
- 6. ALL SITE WORK IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THESE APPROVED PLANS. ANY DEVIATION FROM THESE PLANS WILL REQUIRE PRIOR APPROVAL FROM THE OWNER, ENGINEER AND APPROPRIATE PUBLIC AGENCIES PRIOR TO PERFORMING THE CHANGES IN THE FIELD.
- 7. ALL LOCATIONS OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN ESTABLISHED BY FIELD SURVEY OR OBTAINED FROM AVAILABLE RECORDS AND SHOULD THEREFORE BE CONSIDERED APPROXIMATE ONLY AND NOT NECESSARILY COMPILETE. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS SHOWN AND TO FURTHER DISCOVER AND AVOID ANY OTHER UTILITIES NOT SHOWN HEREON WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PLAN. THE CONTRACTOR SHALL CONTACT THE UNDERGROUND UTILITIES LOCATION SERVICE (DIAL 81) AT TWO BUSINESS DAYS PRIOR TO CONSTRUCTION. THE APPLICANT OR HIS REPRESENTATIVE AND THE ENGINEER SHALL BE CONTACTED IMMEDIATELY IF CONFLICTS EXIST.
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH AND SAFETY OF THE PUBLIC, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACT.
- 9. THE CONTRACTOR SHALL KEEP OFF-SITE STREETS CLEAN AT ALL TIMES BY SWEEPING. STREET WASHING WILL NOT BE ALLOWED WITHOUT
- 10. THE CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS PRIOR TO INITIATING WORK. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER WHEN CONFLICTS OCCUR BETWEEN THE PLANS AND FIELD CONDITIONS. CONFLICTS SHALL BE RESOLVED PRIOR TO PROCEEDING WITH CONSTRUCTION. REVISIONS SHALL BE FORMALLY APPROVED BY THE APPLICANT AND PROJECT ENGINEER PRIOR TO MAKING CHANGES IN THE FIELD.
- 11. UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ANY UTILITY RELOCATIONS WITH UTILITY
- 12. ALL NEW UTILITIES SHALL BE INSTALLED UNDERGROUND.
- CONTRACTOR SHALL DOCUMENT AND RECORD FIELD CHANGES, PIPE INVERT, PIPE SLOPE, AND ANY OTHER CRITICAL AS-CONSTRUCT DATA. AS-BUILT DRAWINGS AND FINAL REPORTS WILL BE REQUIRED BEFORE FINAL APPROVAL.
- 14. WORK IN COUNTY RIGHT-OF-WAY REQUIRES AN ENCROACHMENT PERMIT FROM THE LOCAL AUTHORITY
- 15. APPROVED PERMANENT TRAFFIC CONTROL SIGNS AND MARKINGS WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE INSTALLED PRIOR TO FINAL
- 16. DURING PROJECT CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL TEMPORARY CONSTRUCTION SIGNS, TRAFFIC CONTROL SIGNS, DELINEATORS AND TEMPORARY MARKINGS AS REQUIRED.
- 17. ACCESS BY EMERGENCY VEHICLES SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION
- 18. ALL CLEARED AND GRUBBED MATERIAL SHALL BE REMOVED FROM THE CONSTRUCTION SITE AND DISPOSED AT AN APPROVED LOCATION.
- 19. ALL AREAS WITH ABANDONED UTILITY LINES, STORM DRAINS, UNDERGROUND TANKS, ETC. WHICH MAY PROVIDE VOID SPACE BENEATH THE IRFACE SHALL BE REMOVED. WHEN APPROVED BY THE ENGINEER THE VOID SPACE MAY BE FILED WITH APPROVED MATERIAL. ALL TANKS R HAZARDOUS MATERIALS SHALL BE DEALT WITH IN ACCORDANCE TO ALL LOCAL, STATE AND FEDERAL LAWS.
- 20. PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY GRADES AT SAWCUT LOCATIONS AND MATCHING OF EXISTING GRADE
- 21. CONTRACTOR IS RESPONSIBLE FOR ANY ASPHALT GRINDING, OVERLAY AND SLURRY SEAL, ALL SPECIFICATIONS SHALL COMPLY WITH ALL LOCAL AUTHORITY REQUIREMENTS.
- 22. CONSTRUCTION SHALL CONFORM TO THE 2018 STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION PUBLISHED BY THE OREGON CHAPTER OF APWA, AND THE CURRENT AMENDMENTS OF THE APPROVING AGENCY.
- 23. ALL CONCRETE SHALL BE 3300 PSI AT 28 DAYS UNLESS OTHERWISE SPECIFIED.
- 24. CONTRACTOR SHALL BE RESPONSIBLE TO CLEAN AND/OR MAINTAIN EXISTING PUBLIC STREETS OF SOIL OR OTHER DEBRIS DEPOSITED BY CONSTRUCTION OPERATIONS AND REPAIR ALL STREETS DAMAGED BY CONSTRUCTION OPERATIONS IN A TIMELY MANNER TO AVOID INCONVENIENCES OR HAZARDS TO THE PUBLIC.
- 25. CONTRACTOR SHALL NOTIFY OREGON UTILITY NOTIFICATION CENTER AT 1-800-332-2344
- 26. ALL CONTRACTORS AND SUBCONTRACTORS SHALL BE PRE-QUALIFIED WITH THE PORT OF BROOKINGS HARBOR PRIOR TO ANY CONSTRUCTION OF THIS PROJECT.
- 27. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN AND SECURE APPROVAL OF THE PLAN FROM THE AGENCY AT LEAST FIVE (5) WORKING DAYS PRIOR TO STARTING WORK.
- 28. THE CONTRACTOR SHALL NOT PERFORM WORK WITHOUT AGENCY INSPECTIONS WHERE INSPECTIONS ARE REQUIRED BY THE
- 29. WHERE CONNECTING TO AN EXISTING PIPE, THE CONTRACTOR SHALL EXPOSE THE END OF THE EXISTING PIPE AND ALLOW THE ENGINEER TO VERIFY EXACT LOCATION AND ELEVATION BEFORE LAYING ANY NEW PIPE ON THAT SYSTEM.
- 30. REQUESTS BY THE CONTRACTOR FOR CHANGES TO THE PLANS MUST BE APPROVED BY THE CONSULTING ENGINEER BEFORE CHANGES ARE
- 31. WHEN PERFORMING EXCAVATIONS, THE CONTRACTOR SHALL COMPLY WITH THE PROVISIONS OF ORS 757.542 TO 757.562, WHICH INCLUDE REQUIREMENTS THAT THE CONTRACTOR HAND-EXPOSE (POTHOLE) UNDERGROUND FACILITIES AND USE REASONABLE CARE TO AVOID
- 32. PLACEMENT OR STORAGE OF SPOILS FROM THE SEWER LINE TRENCHES IS NOT PERMITTED ON HARD SURFACE STREETS WITHIN PUBLIC RIGHT-OF-WAY, SPOILS STORED IN OTHER RIGHT-OF-WAY AREAS SHALL BE COVERED TO PREVENT EROSION.
- 33. FORMS OF ADEQUATE SIZE AND CONFIGURATION TO MEET CONCRETE THICKNESS REQUIREMENTS SHALL BE USED AROUND OUTSIDES OF
- 34. GRANULAR MATERIALS SHALL BE OBTAINED FROM A SOURCE APPROVED BY TTHE PORT OF BROOKINGS HARBOR. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF THE MATERIAL

GRADING NOTES

- 1. DEQ 1200-C PERMIT IS REQUIRED.
- 2. UNLESS DIRECTED OTHERWISE, REMOVE CLEARED AND GRUBBED MATERIAL FROM THE SITE AND DISPOSE AT AN APPROVED LOCATION.
- 3. PRIOR TO THE START OF CONSTRUCTION, VERIFY GRADES AT SAWCUT LOCATIONS AND MATCHING OF EXISTING GRADE LOCATIONS
- 4. MINIMIZE TRAFFIC ON SOIL AREAS DURING WET WEATHER. IF THE SITE SOILS ARE EXPOSED DURING WET WEATHER, THE USE OF CRUSHED ROCK PLACED AS ENGINEERED FILL IN THE BOTTOM OF THE EXCAVATIONS MAY BE NECESSARY TO PROTECT THE SUBGRADE. TAKE ALL PRECAUTIONS TO LIMIT SURFACE DISTURBANCE AND PROTECT THE SITE GRADING AREA FROM EROSION AND RUNOFF.
- 5. UNLESS OTHERWISE NOTED, THE SAMPLING AND TESTING OF MATERIALS FOR USE ON THE JOBSITE SHALL BE AT THE EXPENSE OF THE CONTRACTOR. ALL TESTING OF MATERIALS AND WORKMANSHIP SHALL BE PERFORMED BY A CERTIFIED TESTER. RESULTS OF THE TESTS SHALL BE SENT DIRECTLY TO THE PROJECT ENGINEER AS WELL AS THE CONTRACTOR, BY THE LABORATORY. LOCATION AND FREQUENCY OF TESTS SHALL BE DESIGNATED BY THE GENERAL CONTRACTOR.
- 6. ALL CUT AND FILL SLOPES SHALL BE MAXIMUM OF 3:1 FOR FILL AND MAXIMUM OF 2:1 FOR CUT.
- 7. USE OF CURRY COUNTY WATER SUPPLY FOR DUST CONTROL

STORM DRAIN NOTES

- 1. ALL STORM SEWER PIPE SHALL MEET THE OREGON STATE PLUMBING SPECIALTY CODE.
- ALL PIPE SHALL BE PLACED ON STABLE EARTH, OR IF IN THE OPINION OF THE PROJECT ENGINEER THE EXISTING FOUNDATION IS UNSATISFACTORY, THEN IT SHALL BE EXCAVATED BELOW GRADE AND BACKFILLED WITH A GRAVEL MATERIAL TO SUPPORT THE PIPE.
- 3. THE BACKFILL SHALL BE PLACED EQUALLY ON BOTH SIDES OF THE PIPE IN LAYERS WITH A LOOSE AVERAGE DEPTH OF 6°, MAXIMUM DEPTH 8°-9°, THOROUGHLY TAMPING EACH LAYER. THESE COMPACTED LAYERS MUST EXTEND FOR ONE DIAMETER ON EACH SIDE OF THE PIPE OR TO THE SIDE OF THE TRENCH. MATERIAL'S TO COMPLETE THIS FILL OVER PIPE SHALL BE THE SAME AS DESCRIBED.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL MANHOLE, INLET AND CATCH BASIN FRAMES AND GRATES TO GRADE JUST PRIOR TO
- 5. UNLESS OTHERWISE NOTED, ALL STORM SEWER PIPE SHALL BE CORRUGATED POLYETHYLENE PIPE: THE MATERIAL SUPPLIED UNDER THIS SPECIFICATION SHALL BE HIGH-DENSITY CORRUGATED POLYETHYLENE SMOOTH INTERIOR PIPE AND SHALL BE MANUFACTURED IN CONFORMITY WITH THE LATEST ASSISTO SPECIFICATIONS. COUPLENS SHALL COVER NOT LESS THAN ONE PULL CORRUGATION ON EACH ANNULAR SECTION OF PIPE.
- 8. CHI VERT ENDS AT OUTFALLS SHALL BE REVELED TO MATCH SIDE SLOPES. FIELD OUT OF CULVERT ENDS IS PERMITTED WHEN APPROVED BY THE ENGINEER OF RECORD OR HIS DESIGNATED REPRESENTATIVE. CULVERT OUTFALLS SHALL BE RIPRAPPED WITH A PAD MINIMUM OF 12" THICK, EXTENDING MINIMUM OF 6" FROM DISCHARGE POINT.
- 9. ALL STEEL PIPES, CULVERTS, TANKS AND OTHER STEEL PARTS OF ANY STORM DRAINAGE SYSTEM SHALL BE GALVANIZED OR HAVE A TREATMENT 1
 ASPHALT COATING OR BETTER AS SPECIFIED IN THE ODOT STANDARD SPECIFICATIONS. ALUMINUM AND CONCRETE PIPES AND STRUCTURES DO NOT
 REQUIRE A TREATMENT I COATING.
- 10. STORM WATER RETENTION/DETENTION FACILITIES, STORM DRAINAGE PIPE AND CATCH BASINS SHALL BE FLUSHED AND CLEANED PRIOR TO CITY
- 11. ALL PIPES SHALL HAVE A MINIMUM OF 30° COVER AT THE TOP OF THE BELL, OR SHALL HAVE MINIMUM COVER PER THE MANUFACTURER'S
- 12. CATCH BASIN STATIONS AND OFFSETS ARE MEASURED TO CENTER OF GRATE.
- 13. 100-FT MAX LINEAR RUN BETWEEN CLEANOUTS, 135° MAX AGGREGATE HORIZONTAL CHANGE IN DIRECTION WITHOUT CLEANOUT

SANITARY SEWER NOTES

- THE SANITARY SEWER SYSTEM IS TO BE OWNED AND MAINTAINED BY THE PORT OF BROOKINGS HARBOR

- THE SMITIANT SEVERISTIEM IS DE DEVINED AND MAINTAINED BY THE POINT OF BROUGHINGS PARADOR.

 INSPECTION AND ACCEPTANCE IS TO SET THE RESPONSIBILITY OF THE POINT OF BROUGHINGS HARBOR.

 ALL WORK SHALL CONFORM TO THE LATEST VERSION OF THE APWA/ODOT STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND COB STANDARD SPECIFICATIONS AND DRAWNINGS. CURRY COUNTY STANDARDS SHALL TAKE PRECEDENCE.

 A PRECONSTRUCTION MEETING SETWEEN THE COUNTY STANDARDS SHALL TAKE PRECEDENCE.

 CONTRACTOR SHALL NOTIFY COB 48 HOURS IN ADVANCE OF CONSTRUCTION.

 CONTRACTOR SHALL DOTAIN PRECUALIFIED STATUS WITH COB PRIOR TO PERFORMING WORK ON SEWER TO BE OWNED AND MAINTAINED BY THE PORT OF BROOKINGS HARBOR, INCLUDING TAFFOR ON EXISTING SEWER MAINS. 7. CONFINED SPACE CERTIFICATION WILL BE VERIFIED PRIOR TO PERFORMING WORK ON THE PORT OF BROOKINGS HARBOR FACILITIES REQUIRING CONFINED SPACE ERTRY, PERSONAL PROTECTION AND A CONFINED SPACE ENTRY, PERSONAL PROTECTION AND A CONFINED SPACE RESCUE
- SYSTEM WILL BE REQUIRED.

 8. CONTRACTOR IS RESPONSIBLE FOR THE TESTING OF SANITARY SEWER FACILITIES PER COB SPECIFICATIONS. TESTING OF SEWER FACILITIES IS SUBJECT TO THE PORT CONTRACTOR IS REPUMBLED FOR THE LESTING OF SARIJAKT SEWER FACULITIES PER CUE SPECIFICATIONS. TESTING OF SEWER FACULITIES IS SUBJECT TO THE POP
 OF BROOKINGS HARBOR ACCEPTANCE.
 CONTRACTOR IS RESPONSIBLE FOR THE MANAGEMENT OF EXISTING SEWER FLOWS DURING CONSTRUCTION. UPON REQUEST, A SEWER BYPASS PLAN MUST BE
 SUBMITTED TO THE PORT OF BROOKINGS HARBOR FOR APPROVAL PRIOR TO BYPASSING OR BLOCKING EXISTING SEWER.
 SANITARY SEWER WORK SHALL MEET THE OREGON STATE PLUMBING SPECIALTY CODE.
 NOTIFY RONIERED IF ANY MUSTING ONSITE SEWER LIFERALS ARE FOUND. UTILIZATION OF SUCH LATERALS IS SUBJECT TO COMPLETION OF TV INSPECTION, DYE
 TEST, AND APPROVAL OF LOCAL AUTHORITIES. ABANDON EXISTING LATERALS NOT UTILIZED PER LOCAL AUTHORITY STANDARDS.
 100-FT MAX LINEAR RUN BETWEEN CLEANOUTS. 185° MAX AGGREGATE HORIZONTAL CHANGES IN DIRECTION WITHOUT CLEANOUT.

WATER NOTES

ALL WATER WORKS SHALL BE DONE IN ACCORDANCE WITH THE CURRENT REQUIREMENTS OF THE PORT OF BROOKINGS HARBOR STANDARDS STANDARD

- SERVICE CONNECTIONS ARE TO BE INSTALLED FOR EACH PARCEL PER CURRY COUNTY STANDARDS.
 COVER OVER EXISTING MAINS SHALL NOT BE CHANGED WITHOUT WRITTEN AUTHORIZATION OF THE PORT OF BROOKINGS HARBOR.
 NEW MAINS ARE TO BE PRESSURE TESTED, DISINFECTED AND PROVEM TO BE BACTERIOLOGICALLY SAFE PRIOR TO PLACING NEW MAINS IN SERVICE BY
 THE PORT OF BROOKINGS HARBOR. PRESSURE TESTING SHALL NOT BE DONE UNTIL ALL EXCAVATION AND BACKFILL UP TO SUBGRADE HAS BEEN
- ESTABLISHED.

 INITIAL BACKFILL TO TOP OF WATER MAINS AND FIRE HYDRANTS RUNS SHALL BE COMPACTED IN ACCORDANCE WITH CURRY COUNTY STANDARD SPECIFICATION FOR TRENCH EXCAVATION AND BACKFILL, OR BACKFILL MATERIAL AND COMPACTION SHALL MEET THE REQUIREMENTS OF THE CONTROLLING AGENCY.
- CONTROLLING AGENCY.

 5. WATER MAINS AND FIRE HYDRANTS ARE TO BE INSTALLED WITH REFERENCE ALIGNMENT AND GRADE STATUS AND ONLY UPON NOTIFICATION OF CURRY.
- WATER MAINS AND FIRE HYDRANTS ARE TO BE INSTALLED WITH REFERENCE ALIGNMENT AND GRADE STATUS AND ONLY UPON NOTIFICATION OF CURRY COUNTY INSPECTOR.
 WATER MAINS ARE TO BE INSTALLED AFTER SEMERS.
 FIREH HYDRANT RUINS ARE TO BE INSTALLED BEFORE CURBS AND GUTTERS. IN THE EVENT A WATER MAIN IS INSTALLED LARGER THAN EIGHT (8) INCHES, OR IF THE MAIN HAS MORE THAN THREE (3) FEET OF COVER, THE CONTRACTOR WILL BE REQUIRED TO INSTALL AN OFFSET SIMILAR TO STANDARD DETAIL 437 TO PERMIT USE OF A STANDARD 3'S. BURY FIRE HYDRANT.
 STUBS SERVICE RUINS SHALL BE INSTALLED PRIOR TO CURB AND GUTTER AND AFTER PUBLIC UTILITY EASEMENTS ARE GRADED TO CURB LEVELS.
 APPROVED PLANS AND SPECIFICATION SHALL BE AVAILABLE AT SITE OF THE CONSTRUCTION AT ALL TIMES DURINING CONSTRUCTION OF WATER
 FACILITIES.
 JEPPARATION OF WATER MAIN, INCLUDING SERVICE LINES AND SANTRARY SEWER, SHALL BE IN ACCORDANCE WITH CURRENT OREGON STATE HEALTH
 DINISION RULES THE STANDARDS EXCEPT IN ALL CASES RUNNING PARALLEL WITH EACH OTHER, THERE SHALL BE A 10 FOOT SEPARATION CENTER LINE
 TO CENTER LINE. REFER CURRY COUNTY STANDARDS (STANDARD) DETAILS NO 4.39).
 IN OA BOVE-GROUND APPURTENANCES ORE PHYSICAL STRUCTURES OF ANY KIND SHALL BE WITHIN FIVE (6) FEET (HORIZONTALLY) OF ANY WATER
 FACILITY WHETHER THAT WATER FACILITY IS ABOVE OR BELOW GROUND. THIS DISTANCE SHALL BE TEN (10) FEET (HORIZONTALLY) WHEN WATER ARCILLTY WHEN
 SANTARY SEWER FACILITIES ARE CONCERNED.

- NO BELOW-GROUND LITTLITY LINES OR OTHER SERVICE OF ANY KIND SHALL BE WITHIN FIVE (5) FEET (HORIZONTALLY) OF ANY WATER FACILITY WHEN NING PARALLEL TO THE WATER FACILITY
- KOUNING PARALLEL IO THE WATER PAGITY.

 3. NO BELOW-GROUND UTILITY LINES OR OTHER SERVICE OF ANY KIND SHALL BE WITHIN SIX (6) INCHES (VERTICALLY) OF ANY WATER FACILITY WHEN RUNNING APPROXIMATELY PERPENDICULAR TO THE WATER FACILITY. THIS DISTANCE SHALL BE EIGHTEEN (18) INCHES (VERTICALLY) WHEN WATER AND RUNNING APPROXIMATELY PERPENDICULAR TO THE WATTER FACILITY. THIS DISTANCE SHALL BE EIGHTEEN (18) INCHES (VERTICALLY) WHEN WATER SANTRAY SEWER FACILITIES ARE CONCERNED.

 14. BLASTING OR EXPLOSIVE WORK WILL NOT BE ALLOWED WITHIN 30 FEET OF EXISTING WATER FACILITIES AND ONLY THEN USING PROPER INDUSTRY STANDARDS AND THROUGH A PERMIT PROCESS WITH THE FIRE DEPARTMENT OR OTHER AGENCY JURISDICTION.

 15. THE CURRY COUNTY REQUIRES "POLY PIGS" TO BE USED ON ALL NEWLY LAID WATER LINES.

 16. ALL DRY TAP WATER SERVICES AND AIR RELEASE VALVES SHALL BE INSTALLED BY A CURRY COUNTY PRE-QUALIFIED INSTALLER.

 17. ONLY STATE OF OREGON-APPROVED BACKFLOW PREVENTION ASSEMBLIES SHALL BE INSTALLED.

APPLICABLE CODES

ALL WORK SHALL BE IN CONFORMANCE WITH ALL FEDERAL, STATE, AND CITY CODES. SPECIFICATIONS AND STANDARDS SHALL MEAN, AND ARE INTENDED TO BE, THE LATEST EDITION, AMENDMENT OR REVISION OF SUCH REFERENCE STANDAR IN EFFECT AS O'THE DATE O'THE CONTRACT DOCUMENTS, INCLUDING BUT NOT LIMITED TO TO FOLLOWING:

OREGON STANDARD DRAWINGS (ODOT)

CURRY COUNTY ADOPTED STANDARD DETAILS AND SPECIFICATIONS

OPSC: OREGON PLUMBING SPECIALTY CODE, LATEST EDITIO

OFC: OREGON FIRE CODE, LATEST EDITION

NFPA: NATIONAL FIRE PROTECTION ASSOCIATION 101 LIFE SAFETY CODE, LATEST EDITION

PAVEMENT MARKING NOTES

- ALL STRIPING AND SIGNAGE SHALL BE PER MUTCD STANDARDS OR AS DIRECTED BY THE LOCAL AUTHORITY. ALL STRIPING AND MARKINS INSIDE PUBLIC RIGHT OF WAY SHALL BE PER LOCAL AUTHORITY STANDARDS. ALL STRIPING SHALL MEET ADA REQUIREMENTS.

ADA NOTES

- 1. ALL ADA ACCESSIBLE FACILITIES SHALL BE INSTALLED PER THE CURRENT ADA REQUIREMENTS AND PUBLIC
- 2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THAT THE ACCESSIBLE PATH OF TRAVEL COMPLIES WITH AMERICAN DISABILITIES ACT AND ALL LOCAL CODES.
- 3. THE ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLANS IS A BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 5" BEVELED AT 1.2 MAX SLOPE, OR VERTICAL CHANGES NOT EXCEEDING 5" MAX AND AT LEAST 48" WIDE. SURFACE IS SUP RESISTANT, STABLE, FIRM, AND SMOOTH, CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS

INSPECTION AND TESTING NOTES

- 1. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING ALL TESTING, INSPECTIONS, AND SPECIAL LOSTING LOST AS REQUIRED BY PROJECT FORNIEER, CURRENT BUILDING CODES, OR SURSCICIONS AS REQUIRED BY PROJECT FORNIEER, CURRENT BUILDING CODES, OR SURSCICIONS HAVING AUTHORITY, ALL TESTING MUST BE COMPLETED AND APPROVED PRIOR TO SUBSEQUENT WORK. ADDITIONAL OR FRESURE THE STEMP BE REQUIRED BY AGENCY, BUILDING OFFICIAL, OR
- TESTING MUST BE PERFORMED BY AN APPROVED INDEPENDENT TESTING LABORATORY RETAINED
- IN ADDITION TO IN-PLACE DENSITY TESTING, THE SUB-GRADE AND BASE ROCK SHALL BE PROOF-ROLLED WITH A LOADED DUMP TRUCK OR HEAVY NON-VIBRATORY ROLLER. SOILS SHALL BE REMOVED AND RE-COMPACTED OR REPLACED WITH A PROVIDED IMPORTED STRUCTURAL FILL IF THEY DO NOT DEMONSTRATE A FIRM, UNVIELDING CONDITION. BASEROCK PROOF-ROLL SHALL TAKE PLACE LESS THAN 24 HOURS PRIOR TO PAVING AND SHALL BE WITNESSED BY THE ENGINEER OR
- 4. THE APPROVED INDEPENDENT LABORATORY SHALL PROVIDE CERTIFICATION STAMPED BY AN ENGINEER LICENSED IN THE STATE OF OREGON THAT THE SUB-GRADE IS PREPARED AND ALL ENGINEERED FILLS ARE PLACED IN ACCORDANCE WITH THE CONTRACT DRAWINGS AND DOCUMENTS.

PROVIDE ENGINEER WITH SPOT ELEVATION VERIFICATION FOR SUB-GRADE AND TOP OF AGGREGATE PRIOR TO PLACING CONCRETE, ASPHALT, AND/OR STRUCTURES (WHEN INCLUDED IN THE PROJECT).







Medford, C Fus. 08, 97527 97530 1-727-5488







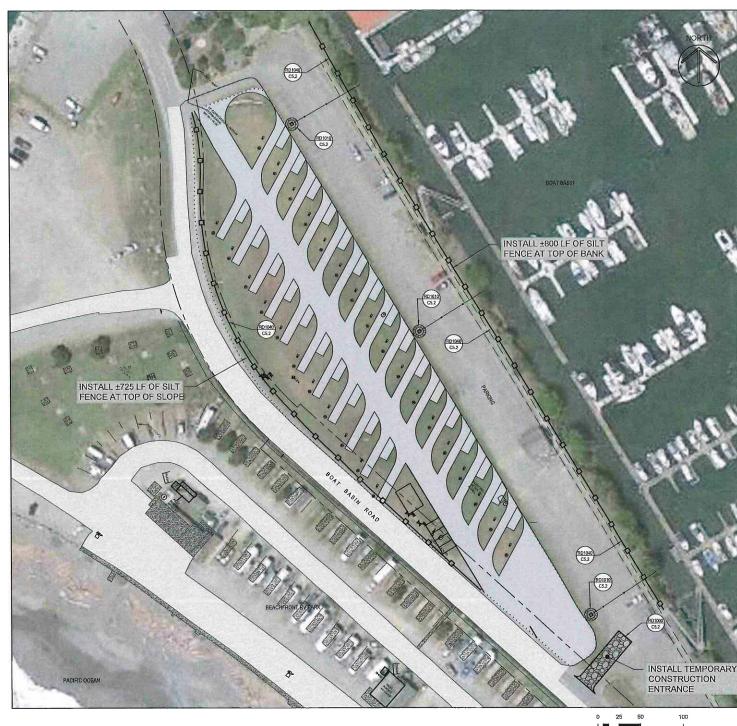
30R 97415

RB(F BROOKINGS HA HARBOR ROAD, BROOKINGS, PARK \mathbb{R} ELD 山 Ш O E $\overline{\mathbf{Z}}$ RA

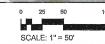
DRAWN BY: DATE: 21 MAR 202 JOB No: PB116 SHEET No:

16330 \circ

C4.2 **GENERAL** NOTES



KITE FIELD RV PARK PRELIMINARY EROSION CONTROL PLAN
SCALE: 1"= 50"(24x36)



SHEET INDEX

EROSION AND SEDIMENT CONTROL PLAN EROSION AND SEDIMENT CONTROL NOTES EROSION AND SEDIMENT CONTROL DETAILS

C5.0 C5.1 C5.2 REVISION
Seich Creative, OR
Seic





PORT OF BROOKINGS HARBOR 16330 LOWER HARBOR ROAD, BROOKINGS, OR 97415 KITE FIELD RV PARK

DRAWN BY: JG
DATE: 21 MAR 2021
JOB No: PB116
SHEET No:
C5.0
ESC
PLAN

ESCP STANDARD NOTES:

- 1) HOLD A PRE-CONSTRUCTION MEETING OF PROJECT CONSTRUCTION PERSONNEL THAT INCLUDES THE ENGINEER TO DISCUSS EROSION AND SEDIMENT CONTROL MEASURES AND CONSTRUCTION LIMITS. (SCHEDULE A.B.C.I.(3))
- 2) ALL INSPECTIONS MUST BE MADE IN ACCORDANCE WITH DEQ 1200-C PERMIT REQUIREMENTS. (SCHEDULE A.12.8 AND SCHEDULE B.1)) INSPECTION LOGS MUST BE KEPT IN ACCORDANCE WITH DEQ'S 1200-C PERMIT REQUIREMENTS. (SCHEDULE B.1.C AND B.2)
- A RETAIN A COPY OF THE ESCP AND ALL REVISIONS ON SITE AND MAKE IT AVAILABLE ON REQUEST TO DEQ, AGENT, OR THE LOCAL MUNICIPALITY, DURING INACTIVE PERIODS OF GREATER THAN SEVEN (7) CONSECUTIVE CALENDAR DAYS, THE ABOVE RECORDS MUST BE RETAINED BY THE PERMIT REGISTRANT BUT DO NOT NEED TO BE AT THE CONSTRUCTION SITE. (ECHEDULE B.2.C)
- 5) ALL PERMIT REGISTRANTS MUST IMPLEMENT THE ESCP, FAILURE TO IMPLEMENT ANY OF THE CONTROL MEASURES OR PRACTICES DESCRIBED IN THE ESCP IS A VIOLATION OF THE PERMIT, (SCHEDULE A 8.A.)
- 6) THE ESCP MUST BE ACCURATE AND REFLECT SITE CONDITIONS. (SCHEDULE A.12.C.I)
- 7) SUBMISSION OF ALL ESCP REVISIONS IS NOT REQUIRED. SUBMITTAL OF THE ESCP REVISIONS IS ONLY UNDER SPECIFIC CONDITIONS. SUBMIT ALL NECESSARY REVISION TO DEQ OR AGENT WITHIN 10 DAYS. (SCHEDULE A.12.C.IV. AND V)
- 8) PHASE CLEARING AND GRADING TO THE MAXIMUM EXTENT PRACTICAL TO PREVENT EXPOSED INACTIVE AREAS FROM BECOMING A SOURCE OF EROSION, (SCHEDULE A.7.A.III)
- SOURCE OF ERCOSION: (SCHEDULE R.T.K.III)

 J IDENTIFY, MARK, AND PROTECT (BY CONSTRUCTION FENCING OR OTHER MEANS) CRITICAL RIPARIAN AREAS AND VEGETATION INCLIDING IMPORTANT TREES AND ASSOCIATED ROOTING ZONES, AND VEGETATION AREAS TO BE PRESERVED. IDENTIFY VEGETATIVE BUFFER ZONES BETWEEN THE SITE AND SENSITIVE AREAS (E.G., WETLANDS), AND OTHER AREAS TO BE PRESERVED, ESPECIALLY IN PERIMETER AREAS. (SCHEDULE A.8.C.I.(1) AND (2))
- 10) PRESERVE EXISTING VEGETATION WHEN PRACTICAL AND RE-VEGETATE OPEN AREAS. RE-VEGETATE OPEN AREAS WHEN PRACTICABLE BEFORE AND AFTER GRADING OR CONSTRUCTION. IDENTIFY THE TYPE OF VEGETATIVE SEED MIX USED. (SCHEDULE
- 11) MAINTAIN AND DELINEATE ANY EXISTING NATURAL BUFFER WITHIN THE 50-FEET OF WATERS OF THE STATE. (SCHEDULE A.7.B.I.AND
- 12) INSTALL PERIMETER SEDIMENT CONTROL, INCLUDING STORM DRAIN INLET PROTECTION AS WELL AS ALL SEDIMENT BASINS, TRAPS, AND BARRIERS PRIOR TO LAND DISTURBANCE (SCHEDULE A 8 C 1/5))
- 13) CONTROL BOTH PEAK FLOW RATES AND TOTAL STORMWATER VOLUME, TO MINIMIZE EROSION AT OUTLETS AND DOWNSTREAD CHANNELS AND STREAMBANKS. (SCHEDULE A.7.C)
- 14) CONTROL SEDIMENT AS NEEDED ALONG THE SITE PERIMETER AND AT ALL OPERATIONAL INTERNAL STORM DRAIN INLETS AT ALL TIMES DURING CONSTRUCTION, BOTH INTERNALLY AND AT THE SITE BOUNDARY. (SCHEDULE A.T.D.I)
- 15) ESTABLISH CONCRETE TRUCK AND OTHER CONCRETE EQUIPMENT WASHOUT AREAS BEFORE BEGII (SCHEDULE A.B.C.I.(6))
- 16) APPLY TEMPORARY AND/OR PERMANENT SOIL STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS AS GRADING PROGRESSES. TEMPORARY OR PERMANENT STABILIZATIONS MEASURES ARE NOT REQUIRED FOR AREAS THAT ARE INTENDED TO BE LEFT UNVEGETATED, SUCH AS DIRT ACCESS ROADS OR UTILITY POLE PADS. (SCHEDULE A.S.C.II.(3))
- 17) ESTABLISH MATERIAL AND WASTE STORAGE AREAS, AND OTHER NON-STORMWATER CONTROLS, (SCHEDULE A.S.C.I.(7))
- 18) PREVENT TRACKING OF SEDIMENT ONTO PUBLIC OR PRIVATE ROADS USING BMPS SUCH AS: CONSTRUCTION ENTRANCE, GRAVELED (OR PAVED) EXITS AND PARKING AREAS, GRAVEL ALL UNPAVED ROADS LOCATED ONSITE, OR USE AN EXIT TIRE WASH. THESE BMPS MUST BE IN PLACE PRIOR TO LAND DISTURBING ACTIVITIES, (SICHEDULE 4.7 D.II. AND A.G.J.(4))
- 19) WHEN TRUCKING SATURATED SOILS FROM THE SITE, EITHER USE WATER-TIGHT TRUCKS OR DRAIN LOADS ON SITE. (SCHEDULE A.7.D.II.
- 20) CONTROL PROHIBITED DISCHARGES FROM LEAVING THE CONSTRUCTION SITE, I.E., CONCRETE WASH-OUT, WASTEWATER FROM CLEANOUT OF STUCCO, PAINT AND CURING COMPOUNDS. (SCHEDULE A.6)
- 21) USE BMPS TO PREVENT OR MINIMIZE STORMWATER EXPOSURE TO POLLUTANTS FROM SPILLS; VEHICLE AND EQUIPMENT FUELING, MAINTENANCE, AND STORAGE; OTHER CLEANING AND MAINTENANCE AND WASTE HANDLING ACTIVITIES. THESE POLLUTANTS INCLUDE FUEL, HYDRAULIC FLUID, AND OTHER OILS FROM VEHICLES AND MACHINERY SHELL AS DERBING, FERTILIZER, PESTICIDES AND HERBICIDES, PAINTS, SOLVENTS, CURING COMPOUNDS AND ADHESIVES FROM CONSTRUCTION OPERATIONS.
- 22) IMPLEMENT THE FOLLOWING BMPS WHEN APPLICABLE: WRITTEN SPILL PREVENTION AND RESPONSE PROCEDURES. EMPLOYEE TRAINING ON SPILL PREVENTION AND PROPER DISPOSAL PROCEDURES, SPILL KITS IN ALL VEHICLES, REGULAR MAINTENANCE SCHEDULE FOR VEHICLES AND MACHINERY, MATERIAL DELIVERY AND STORAGE CONTROLS, TRAINING AND SIGNAGE, AND COVERED STORAGE AREAS FOR WASTE AND SUPPLIES. (SCHEDULE A. 7.E.III.)
- 23) USE WATER, SOIL-BINDING AGENT OR OTHER DUST CONTROL TECHNIQUE AS NEEDED TO AVOID WIND-BLOWN SOIL. (SCHEDULE A
- 24) THE APPLICATION RATE OF FERTILIZERS USED TO REESTABLISH VEGETATION MUST FOLLOW MANUFACTURER'S RECOMMENDATIONS TO MINIMIZE NUTRIENT RELEASES TO SURFACE WATERS. EXERCISE CAUTION WHEN USING TIME-RELEASE FERTILIZERS WITHIN ANY WATERWAY RIPARIAN ZONE. (SCHEDULE A.9.B.III)
- WATERWAY RIPARIAN ZONE. (SCHEDULE ASS.III)

 5) IF AN ACTIVE TREATMENT SYSTEM (FOR EXAMPLE, ELECTRO-COAGULATION, FLOCULATION, FLITATION, ETC.) FOR SEDIMENT OR OTHER POLLUTANT REMOVAL IS EMPLOYED, SUBMIT AN OPERATION AND MAINTENANCE PLAN (INCLUDING SYSTEM SCHEMATIC, LOCATION OF BYSTEM, LOCATION OF INLET, LOCATION OF DISCHARGE, DISCHARGE DISPERSION DEVICE DESIGN, AND A SAMPLING PLAN AND FREQUENCY DEFORE OPERATING THE TREATMENT SYSTEM. OBTAIN FLAN APPROVAL BEFORE OPERATING THE TREATMENT SYSTEM.
- 26) TEMPORARILY STABILIZE SOILS AT THE END OF THE SHIFT BEFORE HOLIDAYS AND WEEKENDS, IF NEEDED. THE REGISTRANT IS RESPONSIBLE FOR ENSURING THAT SOILS ARE STABLE DURING RAIN EVENTS AT ALL TIMES OF THE YEAR. (SCHEDULE A 7.B)
- 27) AS NEEDED BASED ON WEATHER CONDITIONS, AT THE END OF EACH WORKDAY SOIL STOCKPILES MUST BE STABILIZED OR COVERED MPS MUST BE IMPLEMENTED TO PREVENT DISCHARGES TO SURFACE WATERS OR CONVEYANCE SYSTEMS LEADING TO SURFACE WATERS. (SCHEDULE A 7.E.II.(2))
- 28) CONSTRUCTION ACTIVITIES MUST AVOID OR MINIMIZE EXCAVATION AND BARE GROUND ACTIVITIES DURING WET WEATHER, (SCHEDULE
- 29) SEDIMENT FENCE: REMOVE TRAPPED SEDIMENT BEFORE IT REACHES ONE THIRD OF THE ABOVE GROUND FENCE HEIGHT AND BEFORE FENCE REMOVAL. (SCHEDULE A.9.C.I)
- 30) OTHER SEDIMENT BARRIERS (SUCH AS BIOBAGS); REMOVE SEDIMENT BEFORE IT REACHES TWO INCHES DEPTH ABOVE GROUND HEIGHT AND BEFORE BMP REMOVAL. (SCHEDULE A.S.C.I)
- 31) CATCH BASINS: CLEAN BEFORE RETENTION CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT. SEDIMENT BASINS AND SEDIMENT TRAPS: REMOVE TRAPPED SEDIMENTS BEFORE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT AND AT COMPLETION OF PROJECT. (SCHEDULE A.S.C.III & IV)
- 32) WITHIN 24 HOURS, SIGNIFICANT SEDIMENT THAT HAS LEFT THE CONSTRUCTION SITE, MUST BE REMEDIATED. INVESTIGATE THE CAUSE OF THE SEDIMENT RELEASE AND IMPLEMENT STEPS TO PREVENT A RECURRENCE OF THE DISCHARGE WITHIN THE SAME 24 HOURS. ANY IN-STREAM CLEAN-UP OF SEDIMENT SHALL BE PERFORMED ACCORDING TO THE OREGON DIVISION OF STATE LANDS REQUIRED TIMEFRAME. (SCHEDULE A.S.B.I) 33) THE INTENTIONAL WASHING OF SEDIMENT INTO STORM SEWERS OR DRAINAGE WAYS MUST NOT OCCUR, VACUUMING OR DRY
- SWEEPING AND MATERIAL PICKUP MUST BE USED TO CLEANUP RELEASED SEDIMENTS. (SCHEDULE A.9.B.II)
- 34) THE ENTIRE SITE MUST BE TEMPORARILY STABILIZED USING VEGETATION OR A HEAVY MULCH LAYER, TEMPORARY SEEDING, OR OTHER METHOD SHOULD ALL CONSTRUCTION ACTIVITIES CEASE FOR 30 DAYS OR MORE. (SCHEDULE A.7.F.I)
- 35) PROVIDE TEMPORARY STABILIZATION FOR THAT PORTION OF THE SITE WHERE CONSTRUCTION ACTIVITIES CEASE FOR 14 DAYS OR MORE WITH A COVERING OF BLOWN STRAW AND A TACKIFIER, LOOSE STRAW, OR AN ADEQUATE COVERING OF COMPOST MULCH UNTIL WORK RESUMES ON THAT PORTION OF THE SITE. (SCHEDULE A.T.F.II)
- 36) DO NOT REMOVE TEMPORARY SEDIMENT CONTROL PRACTICES UNTIL PERMANENT VEGETATION OR OTHER COVER OF EXPOSED AREAS IS ESTABLISHED, ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED, ALL TEMPORARY EROSION CONTROLS AND RETAINED SOILS MUST BE REMOVED AND DISPOSED OF PROPERLY, UNLESS DOING SO CONFLICTS WITH LOCAL REQUIREMENTS. (SCHEDULE A.B.C.III (1) AND D.S.C.II AND III)

WET WEATHER CONSTRUCTION

THE SITE SOILS ARE CONSIDERED VERY MOISTURE SENSITIVE AND, AS SUCH, ARE SUSCEPTIBLE TO DISTURBANCE BY CONSTRUCTION EQUIPMENT, PARTICULARLY DURING PERIODS OF WET WEATHER, DURING WET WEATHER, THE CONTRACTOR SHALL MIMINIZE TRAFFIC ON PREPARED SOIL, SIDEGRADE AREAS, IF THE SITE SOILS ARE EXPOSED DURING WET WEATHER USE OF CRUSHED ROCK PLACED AS ENGINEERED FILL IN THE BOTTOM OF THE EXCAVATIONS MAY BE NECESSARY TO PROTECT THE SUBGRADE. THE GRADING CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO LIMIT SURFACE DISTURBANCE AND PROTECT THE SITE GRADING AREA FROM EXCESSIVE RUNOFF EROSION.

INSPECTION FREQUENCY				
SITE CONDITION	MINIMUM FREQUENCY			
1, ACTIVE PERIOD	DAILY WHEN STORMWATER RUNOFF, INCLUDING RUNOFF FROM SNOWMELT, IS OCCURING. AT LEAST ONCE EVERY TWO WEEKS, REGARDLESS OF WHETHER OR NOT RUNOFF IS OCURRING.			
2. PRIOR TO THE SITE BECOMING INACTIVE OR IN ANTICIPATION OF SITE INACCESSIBILITY	ONCE TO ENSURE THAT EROSION AND SEDIMENT CONTROL MEASURES ARE IN WORKING ORDER. ANY NECESSARY MAINTENANCE AND REPAIR MUST BE MADE PRIOR TO LEAVING THE SITE.			
3. INACTIVE PERIODS GREATER THAN FOURTEEN (14) CALENDAR DAYS.	ONCE EVERY MONTH.			
4. PERIODS DURING WHICH THE SITE IS INACCESSIBLE DUE TO INCLEMENT WEATHER.	IF PRACTICAL, INSPECTIONS MUST OCCUR DAILY AT A RELEVANT AND ACCESSIBLE DISCHARGE POINT OR DOWNSTREAM LOCATION.			
5. PERIODS DURING WHICH DISCHARGE IS UNLIKELY DUE TO FROZEN CONDITIONS.	MONTHLY. RESUME MONITORING IMMEDIATELY UPON MELT, OR WHEN WEATHER CONDITIONS MAKE DISCHARGES LIKELY.			

IMPLEMENTATION OF CONTROL MEASURES:

A. ALL PERMIT REGISTRANTS MUST IMPLEMENT THE ESCP (PARAGRAPH A.12). FAILURE TO IMPLEMENT ANY OF THE CONTROL MEASURES OR PRACTICES DESCRIBED IN THE ESCP IS A VIOLATION OF THE PERMIT.

B. ALL PERMIT REGISTRANTS MUST PREVENT THE DISCHARGE OF SIGNIFICANT AMOUNTS OF SEDIMENT TO SURFACE WATERS OR CONVEYANCE SYSTEMS LEADING TO SURFACE WATERS. THE FOLLOWING CONDITIONS INDICATE THAT A SIGNIFICANT AMOUNT OF SEDIMENT HAS LEFT OR IS LIKELY TO LEAVE THE SITE:

- I. EARTH SLIDES OR MUD FLOWS; II. CONCENTRATED FLOWS OF STORMWATER SUCH AS RILLS, RIVULETS OR CHANNELS THAT CAUSE EROSION WHEN SUCH
- PLOWS ARE NOT FILTERED, SETTLED OR OTHERWISE TREATED TO REMOVE SEDIMENT;
 III. SEDIMENT LADEN OR TURBID FLOWS OF STORMWATER THAT ARE NOT FILTERED OR SETTLED TO REMOVE SEDIMENTS
 AND TURBIDITY;
 IV. DEPOSITS OF SEDIMENT AT THE CONSTRUCTION SITE IN AREAS THAT DRAIN TO UNPROTECTED STORMWATER INLETS OR
 TO CATCH BASINS THAT DISCHARGE TO SURFACE WATERS, INLETS AND CATCH BASINS WITH FAILING SEDIMENT
- CONTROLS DUE TO LACK OF MAINTEMANCE OR INADEQUATE DESIGN ARE CONSIDERED UNPROTECTED;

 V. DEPOSITS OF SEDIMENT FROM THE CONSTRUCTION SITE ON ANY PROPERTY (INCLUDING PUBLIC AND PRIVATE STREETS) QUITSIDE OF THE CONSTRUCTION ACTIVITY COVERED BY THIS PERMIT.

C. THE PERMIT REGISTRANT MUST ENSURE THE CONTROL MEASURES OR PRACTICES DESCRIBED IN THE ESCP ARE IMPLEMENTED ACCORDING TO THE FOLLOWING SEQUENCE:

1. BEFORE CONSTRUCTION.

- 1) IDENTIFY, MARK, AND PROTECT (WITH CONSTRUCTION FENCING OR OTHER MEANS) CRITICAL RIPARIAN AREAS AND VEGETATION INCLUDING IMPORTANT TREES AND ASSOCIATED ROOTING ZONES AND VEGETATION AREAS TO
- BE PRESERVED.
 (2) IDENTIFY VEGETATIVE BUFFER ZONES BETWEEN THE SITE AND SENSITIVE AREAS (FOR EXAMPLE, WETLANDS),
 AND OTHER AREAS TO BE PRESERVED, ESPECIALLY IN PERIMETER AREAS.
 (3) HOLD A PRE-CONSTRUCTION MEETING OF PROJECT CONSTRUCTION PERSONNEL THAT INCLUDES THE ENGINEER
 REQUIRED BY CONDITION A 12.B.III TO DISCUSS EROSION AND SEDIMENT CONTROL MEASURES AND
- REQUIRED BY CONDITION A 12.8.III TO DISCUSS EROSION AND SEDIMENT CONTROL MEASURES AND CONSTRUCTION LIMITS.

 (4) STABILIZE SITE ENTRANCES AND ACCESS ROADS INCLUDING TO THE INTO LIMITED TO CONSTRUCTION ENTRANCES, ROADWAYS AND EQUIPMENT PARKING AREAS (FOR EXAMPLE, USING GEOTEXTILE FABRIC UNDERLAY).

 (5) INSTAL PERIMETER SEDIMENT CONTROL, INCLUDING STORM DRAIN INLET PROTECTION AS WELL AS ALL
- SEDIMENT BASINS, TRAPS, AND BARRIERS. (6) ESTABLISH CONCRETE TRUCK AND OTHER CONCRETE EQUIPMENT WASHOUT AREAS BEFORE BEGINNING
- CONCRETE WORK.
 7) ESTABLISH MATERIAL AND WASTE STORAGE AREAS, AND OTHER NON-STORMWATER CONTROLS.
 8) STABILIZE STREAM BANKS AND CONSTRUCT THE PRIMARY RUNOFF CONTROL MEASURES TO PROTECT AREAS FROM CONCENTRATED FLOWS.

- II. DURING CONSTRUCTION.

 (1) LAND CLEARING, GRADING AND ROADWAYS.
 (A) BEGIN LAND CLEARING, EXCAVATION, TRENCHING, CUTTING OR GRADING ONLY AFTER INSTALLING
 APPLICABLE SEDIMENT AND RUNGFF CONTROL MEASURES.
 (B) PROVIDE APPROPRIATE EROSION AND SEMIMENT CONTROL BMPS FOR ALL ROADWAYS INCLUDING GRAVEL

 - ROAUWATS.

 (C) INSTALL ADDITIONAL CONTROL MEASURES AS WORK PROGRESSES AS NEEDED.

 (D) PHASE CLEARING AND GRADING TO THE MAXIMUM EXTENT PRACTICAL TO PREVENT EXPOSED INACTIVE AREAS FROM BECOMING A SOURCE OF EROSION.
 - (2) SURFACE STABILIZATION.

 APPLY TEMPORARY OR PERMANENT SOIL STABILIZATION MEASURES (FOR EXAMPLE, TEMPORARY AND
 PERMANENT SEEDING, OR MULCHING) IMMEDIATELY ON ALL DISTURBED AREAS AS WORK IS COMPLETED.

 STABILIZATION OF DISTURBED AREAS MUST BE INITIATED IMMEDIATELY WHENEVER ANY EARTH DISTURBING
 ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE SITE.
 - ACTIVITIES REVERENDMENT LOSSED OF NAT CONTINUED THE GIFE.

 (3) CONSTRUCTION AND PAYING CONTROL MEASURES IN PLACE FOR THE DURATION OF CONSTRUCTION, INCLUDING PROTECTION FOR ACTIVE STORM DRAIN INLETS AND APPROPRIATE NON-STORMWATER POLLUTION INCLUDING PROTECTION FOR ACTIVE STORM DRAIN INLETS AND APPROPRIATE NON-STORMWATER POLLUTION.
- III. FINAL STABILIZATION AND LANDSCAPING.

 (1) PROVIDE PERMANENT EROSION PREVENTION MEASURES ON ALL EXPOSED AREAS.

 - (1) PROVIDE PERMANENT ENUSION PREVENTION MEASURES OUT ALL CAT USED TO SECTION (2) REMOVE AND PROPERTY DISPOSE OF CONSTRUCTION MATERIALS AND WASTE, INCLUDING SEDIMENT RETAINED BY TEMPORARY BMPS.
 - (3) REMOVE ALL TEMPORARY CONTROL MEASURES AS AREAS ARE STABILIZED, UNLESS DOING SO CONFLICTS WITH

ESCP RESPONSIBILITY

IT IS THE INTENT OF THIS TEMPORARY EROSION AND SEDIMENT CONTROL PLAN THAT STORM WATER RUNOFF BE CONTROLLED AT ALL TIMES TO PREVENT SOIL EROSION AND TO MAINTAIN WATER QUALITY. ANY AND ALL MEASURES NECESSARY TO DO SO SHALL BE

- REGARDLESS OF SITE, WEATHER, SOIL OR OTHER CONDITIONS, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ENSURING THAT EROSION DOES NOT OCCUR ON THE SITE AND THAT POLLUTED OR SILT-LADEN RUNOFF DOES NOT LEAVE THE SITE OR ENTER INTO ANY CREEK, STEAM, WETLAND OR WATER BODY ON THE SITE OR
- 2. BEYOND THE MINIMUM REQUIREMENTS SHOWN ON THIS PLAN, THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING AND IMPLEMENTING APPROPRIATE METHODS, "BEST MANAGEMENT PRACTICES" (BMPS). FOR STORM WATTER TREATMENT AND IMPLEMENTING APPROPRIATE METHODS, "BEST MANAGEMENT PRACTICES" (BMPS), FOR STORM WATER TREATMENT AND CONTROL THAT MEET THE REQUIREMENTS OF THE STATE AND LOCAL JURISDICTION.
- 3. THE CONTRACTOR SHALL REPORT ALL WATER QUALITY CONCERNS AND ACTIVITIES TO THE PROJECT ENGINEER. IN THE EVENT THAT THE INSTALLED WATER QUALITY CONTROL MEASURES ARE INEFFECTIVE AT CONTROLLING EROSION AND SEDIMENT, THE CONTROLTOR SHALL IMMEDIATELY REPORT TO AND CONSULT WITH THE PROJECT ENGINEER TO FIND AN APPROPRIATE REMEDIAL CONSTRUCTION ACTIVITIES, WITH THE EXCEPTION OF EROSION AND SEDIMENT CONTROL MEASURES, SHALL CEASE UNTIL SUCH TIME AS THE WATER QUALITY IS BROUGHT UNDER CONTROL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING WEATHER FORECASTS AND ANTICIPATING STORM ACTIVITY AND SHALL SCHEDULE ALL PROJECT ACTIVITIES IN ANTICIPATION OF THE WEATHER.
- ALL SUPPLIES AND MATERIALS NECESSARY FOR IMPLEMENTING BMPS SHALL BE STORED ON SITE AND SHALL BE IMMEDIATELY AVAILABLE FOR USE. SUCH SUPPLIES AND MATERIALS SHALL INCLUDE, BUT NOT BE LIMITED TO, STRAW BALES OR OTHER MULCHING MATERIAL, BILT FENCING AND STAKES, FILTER FABRIC, ETC.
- DURING AND AFTER RUNOFF PRODUCING STORM EVENTS, CONTRACTOR SHALL MONITOR ALL EROSION CONTROL MEASURES
 AND SHALL PRIORITIZE IMPLEMENTATION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES ABOVE ALL

ENGINEER

JACKSONVILLE, OREGON

NARRATIVE DESCRIPTIONS

EXISTING SITE CONDITIONS

PAVED PARKING LOTS, STORM WATER SEWER SYSTEM, UTILITIES, RECREATIONAL VEHICLE USE, PAVED BOAT YARD

RECEIVING WATER BODIES

PORT BASIN THEM PACIFIC OCEAN/CHETCO MOUTH & ESTUARY



INSPECTION FREQUENCY:

- * HOLD A PRE-CON MEETING OF PROJECT CONSTRUCTION PERSONNEL THAT INCLUDES THE EC ENGINEER.
- ALL INSPECTIONS MUST BE MADE IN ACCORDANCE WITH DEQ 1200 C PERMIT REQUIREMENTS.
- INSPECTION LOGS MUST BE KEPT IN ACCORDANCE WITH DEQ'S 1200 C PERMIT REQUIREMENTS.

 CHANGES TO THE APPROVED ESC PLAN MUST BE SUBMITTED TO DEQ IN THE FORM OF AN ACTION PLAN.

RATIONAL STATEMENT

A COMPREHENSIVE LIST OF AVAILABLE BEST MANAGEMENT PRACTICES (BMP) OPTIONS BASED ON DEQ'S 1200-C PERMIT APPLICATION AND ESCP GUIDANCE DOCUMENT HAS BEEN REVIEWED TO COMPLETE THIS EROSION AND SEDIMENT CONTROL PLAN. SOME OF THE ABOVE LISTED BMPS WERE NOT CHOSEN BECAUST THEY WERE DETERMINED TO NOT EFFECTIVELY MANAGE EROSION PREVENTION AND SEDIMENT CONTROL FOR THIS PROJECT BASED ON SPECIFIC SITE CONDITIONS, INCLUDING SOIL CONDITIONS, TOPOGRAPHIC CONSTRAINTS, ACCESSIBILITY TO THE SITE, AND OTHER RELATED CONDITIONS. AS THE PROJECT PROGRESSES AND THERE IS A NEED TO REVISE THE SECY, AN ACTION PLAN WILL BE SUBMITTED.

INITIAL

STOCKPILE SOILS

TEMPORARY STOCKPILE LOCATIONS MAY BE ADJUSTED BY CONTRACTOR IN FIELD, CARE SHOULD BE TAKEN

STOCKPILES SHALL NOT BE PLACED WITHIN PROTECTED AREAS, SCREEN BUFFERS, EXISTING DRAINAGE WAYS, UTILITIES FASFMENT OF PROTECTED AREAS, SCREEN BUFFERS, EXISTING DRAINAGE WAYS, UTILITIES EASEMENT, OR RIGHT-OF-WAYS. STOCKPILE MANAGEMENT SHALL COMPLY WITH THE ESC PLAN. ON-SITE TEMPORARY STOCKPILES SHALL BE REMOVED PRIOR TO FINALIZING CONSTRUCTION.

CONSTRUCTION ACTIVITY / ESTIMATED TIME

GRADING: UTILITY INSTALL : STREET CONSTRUCTION: FINAL STABILIZATION:

TO BE DETERMINED TO BE DETERMINED





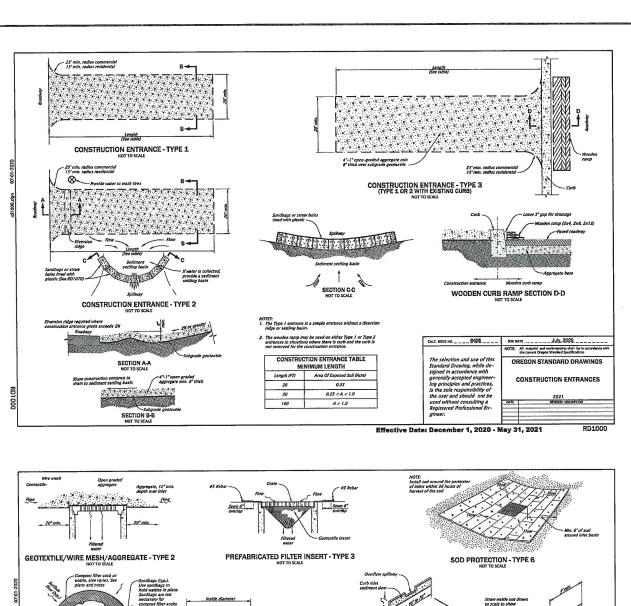


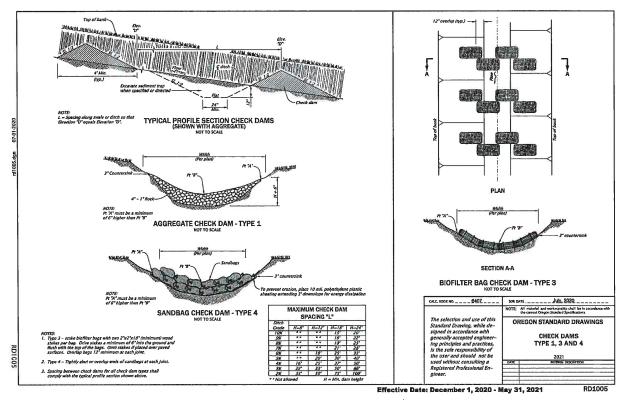


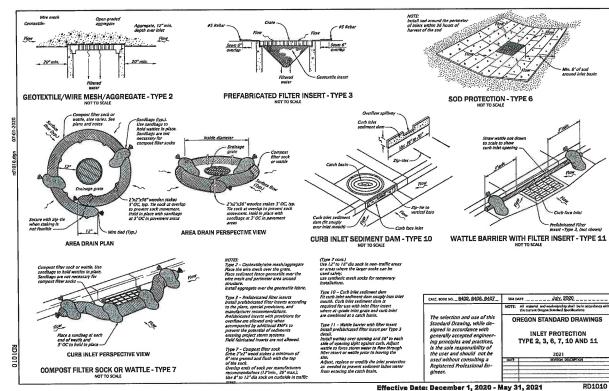
F BROOKINGS HARBOR HARBOR ROAD, BROOKINGS, OR 97415 妥 PAI \mathbb{R} \Box 岀 I Ш O 点 PORT (

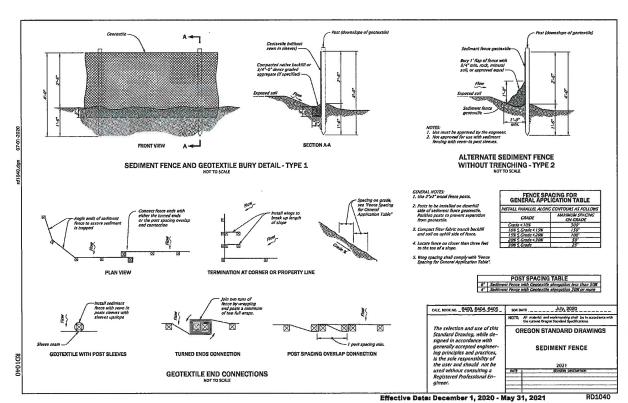
DRAWN BY: DATE: 21 MAR 202 JOB No: PB110 SHEET No: C5.1 ESC

GENERAL NOTES







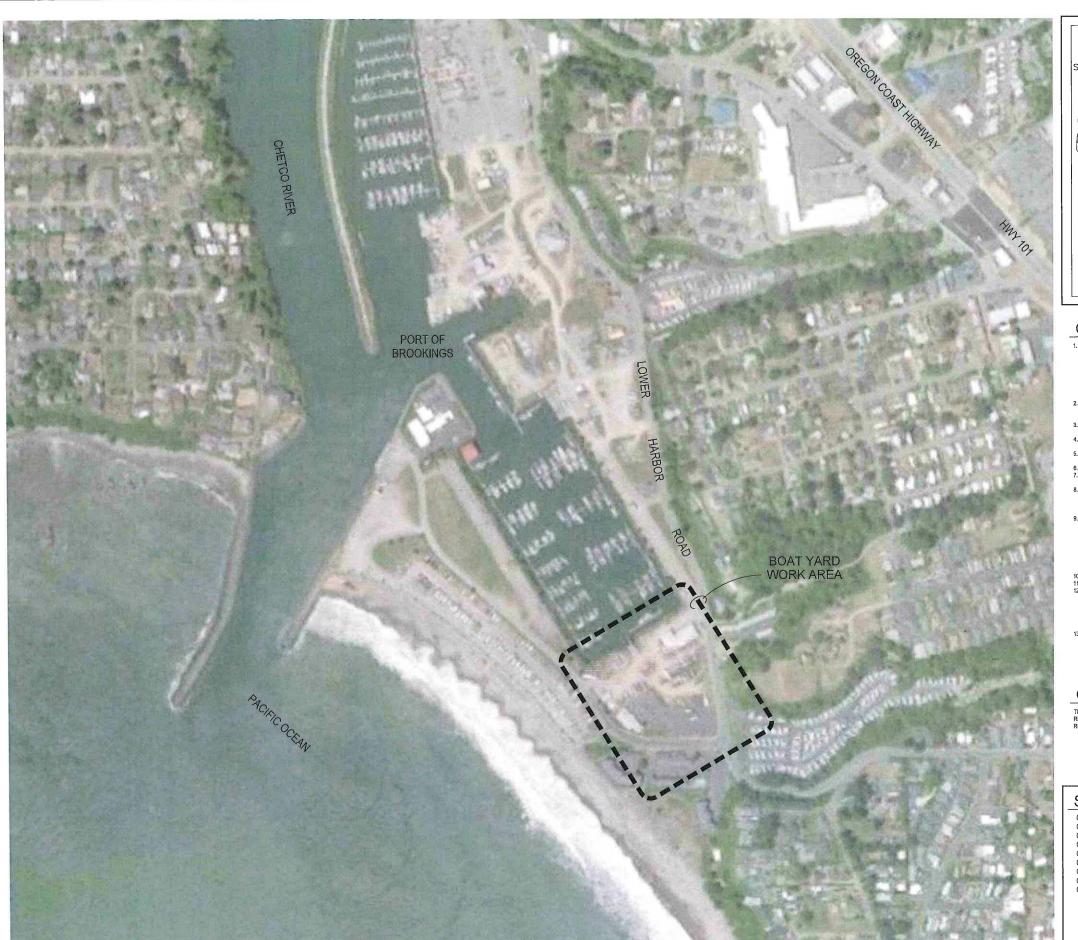




PORT OF BROOKINGS HARBOR 16330 LOWER HARBOR ROAD, BROOKINGS, OR 97415 KITE FIELD RV PARK

DRAWN BY: JG
DATE: 21 MAR 2021
JOB No: PB116
SHEET No:
C5.2
ESC

STANDARD DETAILS





GRADING NOTES

- 1. PRIOR TO THE CONSTRUCTION OF EMBANKMENTS, THE CONTRACTOR SHALL EXCAVATE UNSUTABLE FOUNDATION MATERIAL BASEMENTS, TRENCHES AND HOLES ENCOUNTERED WITHIN EMBANKMENT LIMITS SHALL BE FILLED WITH APPROVED MATERIAL, PRIOR TO BACKFILLING THE CONTRACTOR SHALL BREAK CONCRETE FLOORS OF BASEMENTS AS DIRECTED. THE CONTRACTOR SHALL BREAK CONCRETE FLOORS OF BASEMENTS AS DIRECTED. THE CONTRACTOR SHALL BREAK OLD PROVIDE THE GROUND SURFACE BEFORE EMBANKMENTS MATERIAL IS PLACED THE NATURAL GROUND UNDERLYING EMBANKMENTS SHELL BE COMPACTED TO THE DEBSHITS SPECIFIED FOR THE EMBANKMENT THE GROUND SURFACE BEFORE EMBANKMENTS MATERIALS TO BE PLACED, AND TO THE DEBSHITS SPECIFIED FOR THE MEMBANKMENT MATERIALS TO BE PLACED, AND TO THE EMBANKMENT CONSTRUCTOR SHALL INCLIDE PREPARATION OF THE AREAS UPON WHICH EMBANKMENT SHAPE TO HOLES, PITS AND OTHER DEFRESSIONS WITHIN THE SUBDIVISION.

 3. THE CONTRACTOR SHALL PLACE EMBANKMENTS AND FILLS IN THE HORIZONTAL LAYERS OF 8 INCHES MAXIMUM DEPTH AND COMPACT EACH LAYER TO THE DEBSHITS SPECIFIED.

 4. EMBANKMENT SHALL NOT BE CONSTRUCTED WHEN THE EMBANKMENT MATERIAL OR THE FOUNDATION ON WHICH THE EMBANKMENT WOULD BE PLACED IS FROZEN.

 5. IMMEDIATELY PRIOR TO COMPLETION OF THE EARTHWORK, THE CONTRACTOR SHALL CLEAN THE ENTIRE WORK AREA OF DEBRIS AND FOREIGN MATTER.

 6. THE MAXIMUM DEPTH AT THE EMBANKMENT WOULD BE PLACED IS FROZEN.

 7. THE CONTRACTOR SHALL COMPACT ALL EMBANKMENTS, FILLS AND BACKFILLS TO A MINIMUM IN PLACE DENSITY OF 95 PERCENT.

 8. THE CONTRACTOR SHALL WATER THE MATERIALS TO PROVIDE OPTIMUM MOISTURE FOR COMPACTION OF EMBANKMENT AND BACKFILLS AND BACKFILL TO A MINIMUM IN PLACE DENSITY OF 95 PERCENT.

 8. THE CONTRACTOR SHALL WATER THE MATERIALS TO PROVIDE OPTIMUM MOISTURE FOR COMPACTION OF THE MARMMENT SHALL NOT BE PLACED IN FIRMS POSITION UNFINED BY OFFICIAL SHALL NOT BE PLACED IN FIRMS POSITION OF THE MARMMENT SHALL SHALL SHALL NOT BE PLACED IN FIRMS POSITION OF THE SERVING SHALL SHALL SHALL SHALL NOT BE PLACED IN FIRMS POSITION OF THE SERVING SOOR OF PIMUM MOISTURE HAS BEEN REMOVED.

 8

- NOT BE PLACED IN FINAL POSITION UNTIL MOISTURE IN EXCESS OF OPTIMUM MOISTURE HAS BEEN REMOVED.

 9. IF THE SPECIFIED COMPACTION IS NOT OBTAINED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER. THE CONTRACTOR MAY BE REQUIRED TO USE A MODIFIED COMPACTION PROCEDURE OR APPLY ADDITIONAL COMPACTIVE EFFORT, IF APPROVED MATERIALS MEETING THE SPECIFICATIONS CANNOT BE COMPACTED TO THE REQUIRED DESISTY REGARDLESS OF COMPACTIVE EFFORT OR METHOD. THE ENGINEER MAY REDUCE THE REQUIRED DENSITY OR DIRECT THE ALTERNATE MATERIALS BE USED, IN OCASE SHALL EARTHWORK OPERATIONS PROCEED UNTIL THE CONTRACTOR IS ABLE TO COMPACT THE MATERIAL TO THE SATISFACTION OF THE ENGINEER.

 10. DEQ 1200 OPERMIT IS REQUIRED.

 11. UNLESS DIRECTED OTHERWISE, REMOVE CLEARED AND GRUBBED

 12. MATERIAL FROM THE SITE AND DISPOSE AT AN APPROVED LOCATION. UNLESS OTHERWISE NOTED, THE SAMPLING AND TESTING OF MATERIALS FOR USE ON THE JOB SITE SHALL BE AT THE EXPENSE OF THE CONTRACTOR. ALL SETTING OF MATERIALS AND WORKMANSHIP SHALL BE PERFORMED BY A CERTIFIED TESTER, RESULTS OF THE TESTS SHALL BE SENT DIRECTLY TO THE PROLECT ENGINEER AS WELL AS THE CONTRACTOR, BY THE LABORATORY, LOCATION AND FREQUENCY OF TESTS SHALL BE DESIGNATED BY THE GENERAL CONTRACTOR.

GEOTECHNICAL NOTE

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH THE PROJECT ENGINEER FOR REQUIRED REMEDIATION. THE CONTRACTOR SHALL COORDINATE WITH THE PROJECT ENGINEER FOR REQUIRED SITE OBSERVATIONS AND TESTING OF ALL FILLS.

SHEET INDEX

- C1.0 COVER SHEET
- C2.0 EXISTING CONDITIONS
- C2.1 GRADING PLAN
 C2.2 FINISHED A/C GRADE
- C3.0 PAVEMENT AREA
- C4.0 STORMWATER CONVEYANCE
- C6.0 PROJECT DETAILS
- C6.1 PROJECT DETAILS



Grants I GP Office: 1 Julie Office: Ph: \$41-474 emc@emce





PORT OF BROOKINGS HARBOR 16330 LOWER HARBOR ROAD, BROOKINGS, OR 97415 BOAT YARD PAVING

DRAWN BY: DATE: 26 JAN 2021 JOB No: SHEET No:

C1.0

COVER SHEET



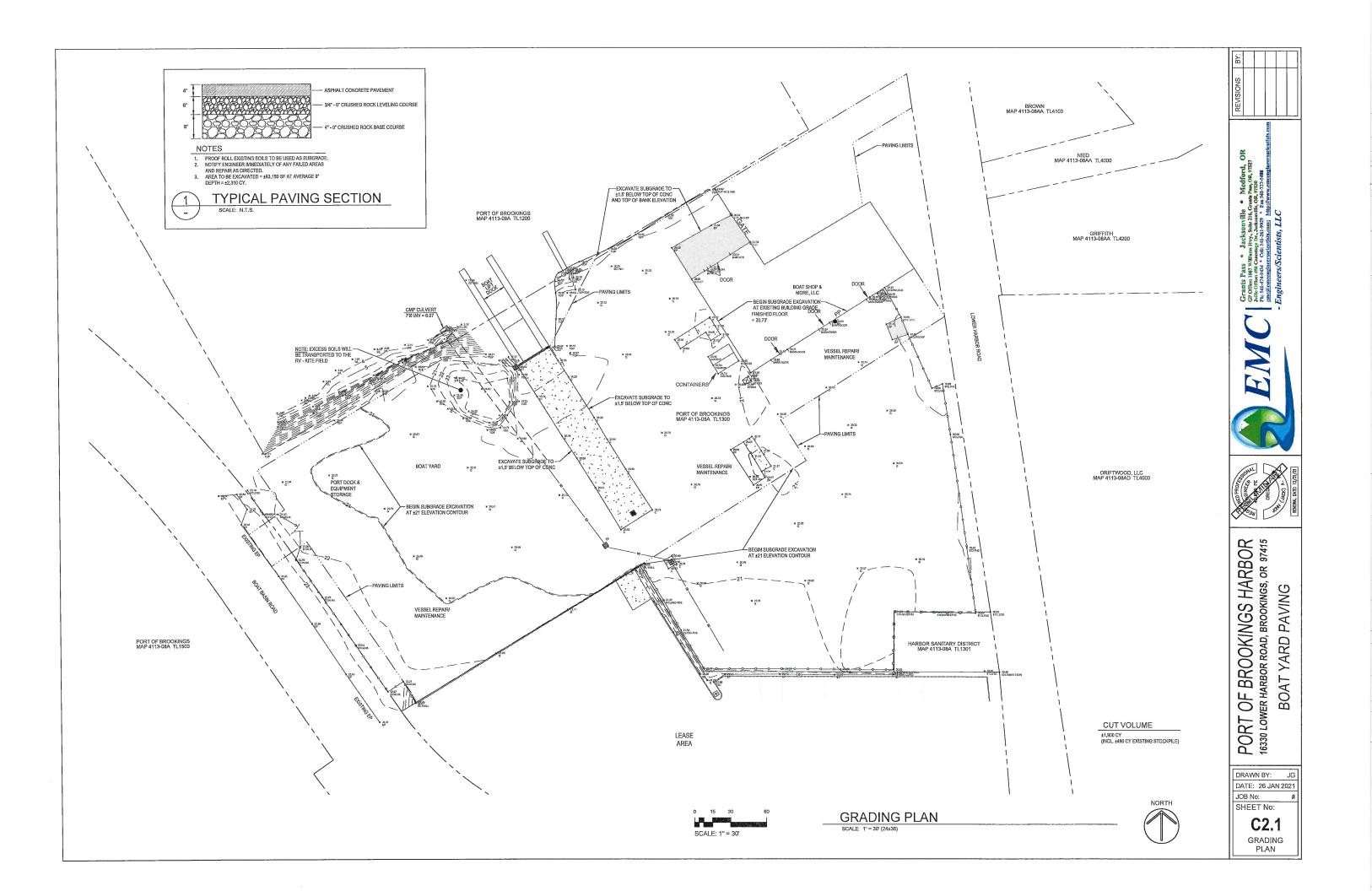
EMC

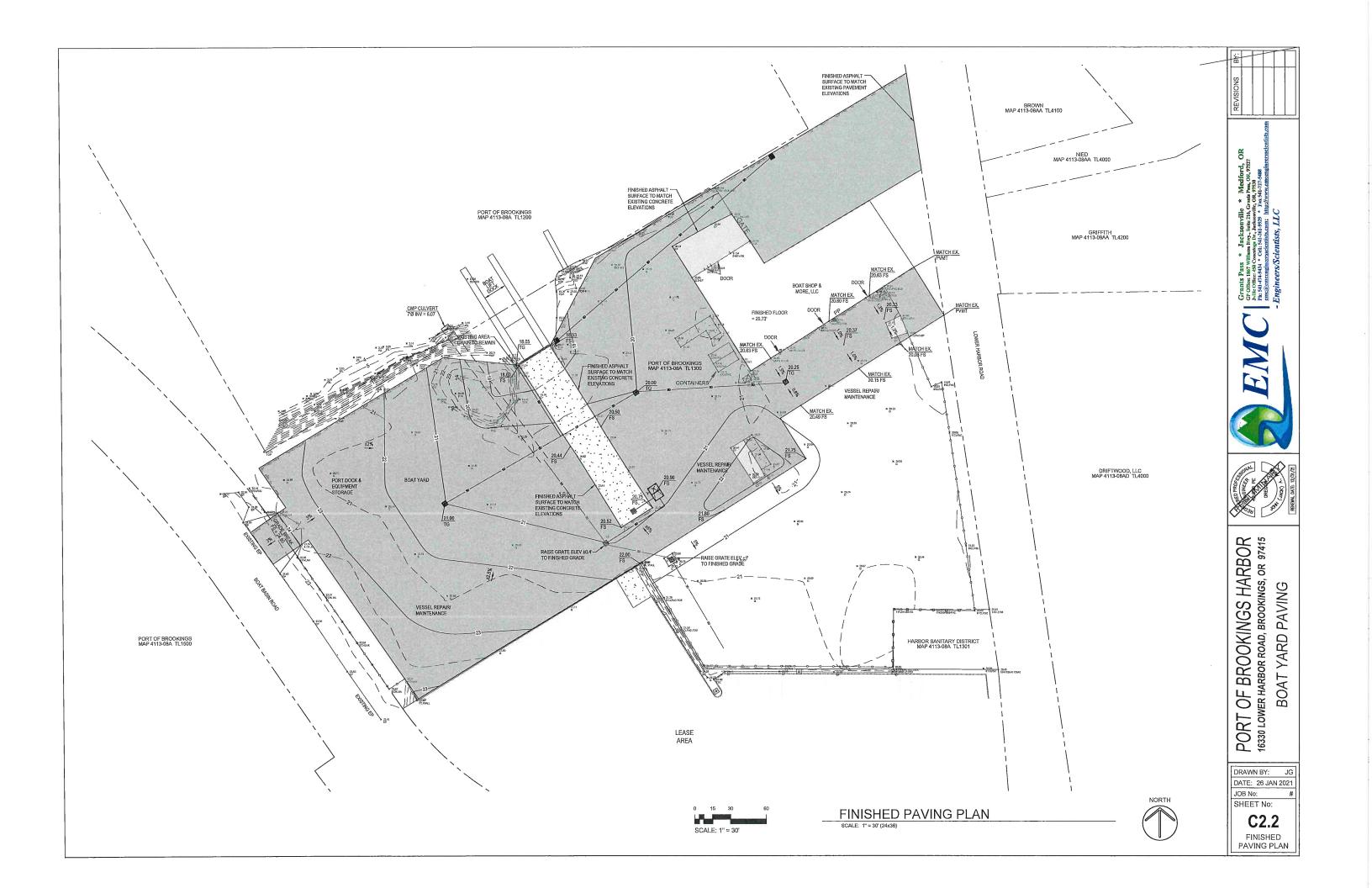
PORT OF BROOKINGS HARBOR 16330 LOWER HARBOR ROAD, BROOKINGS, OR 97415 BOAT YARD PAVING

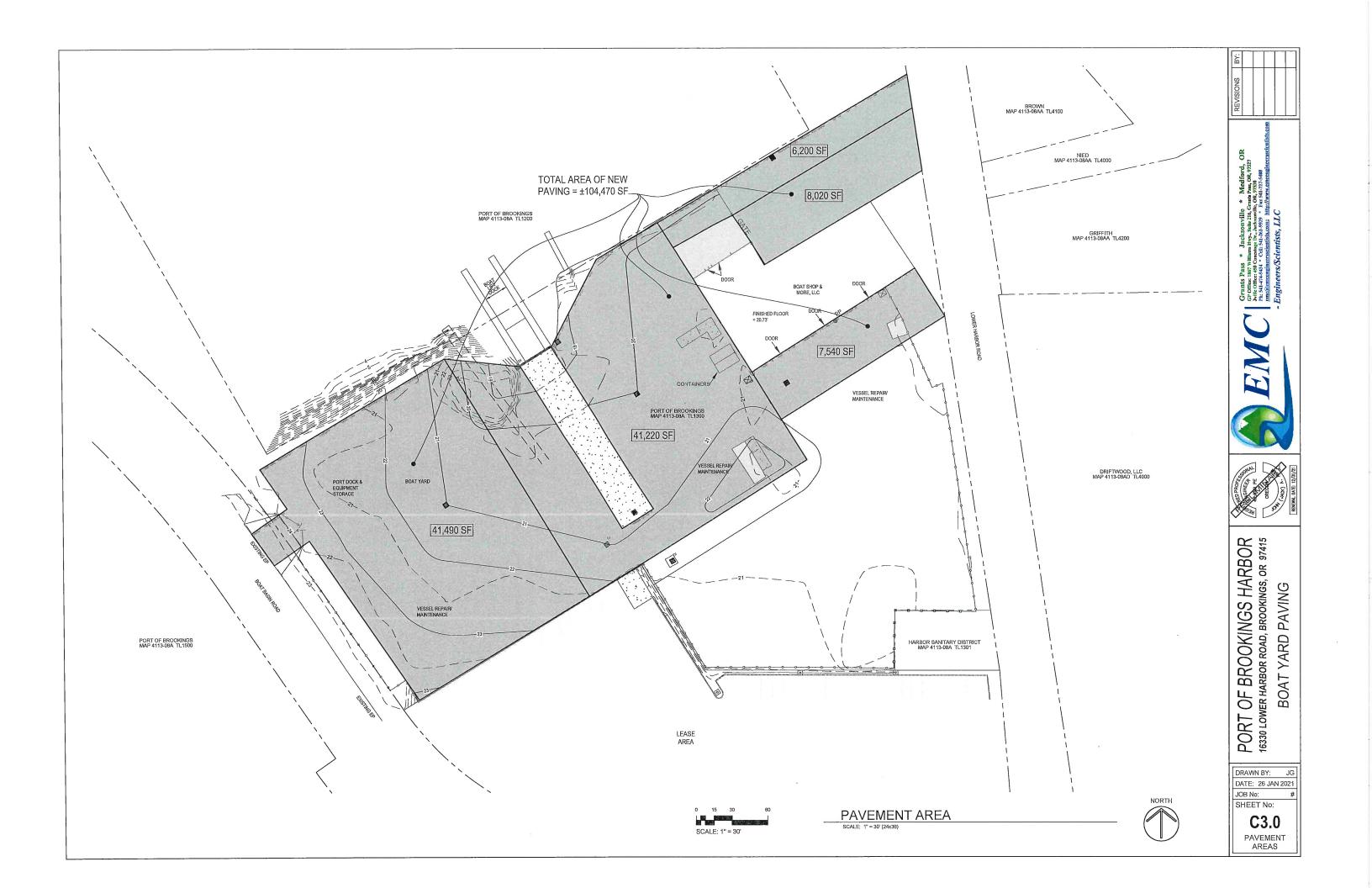
DRAWN BY: JG DATE: 26 JAN 2021 JOB No:

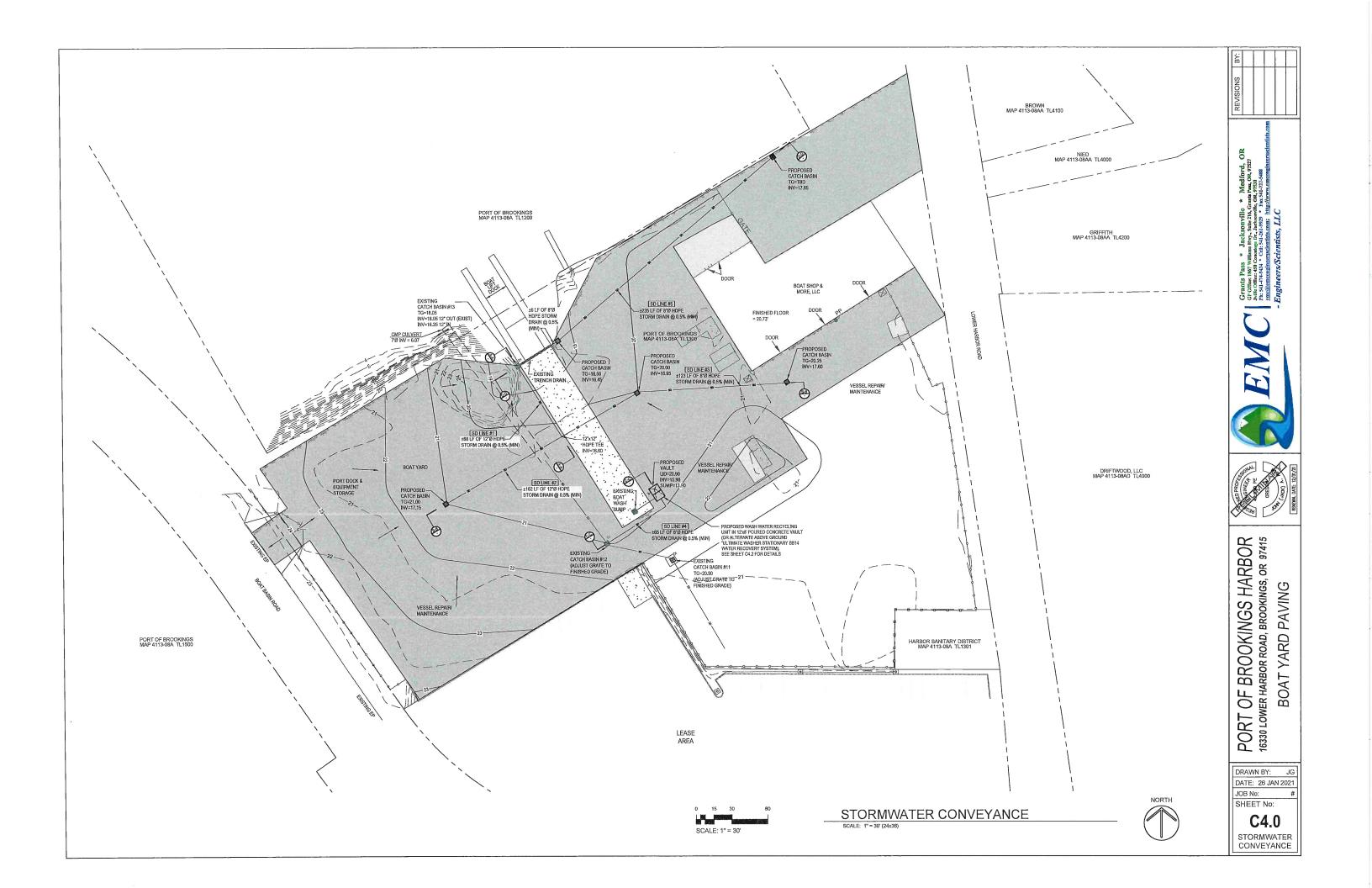
SHEET No:

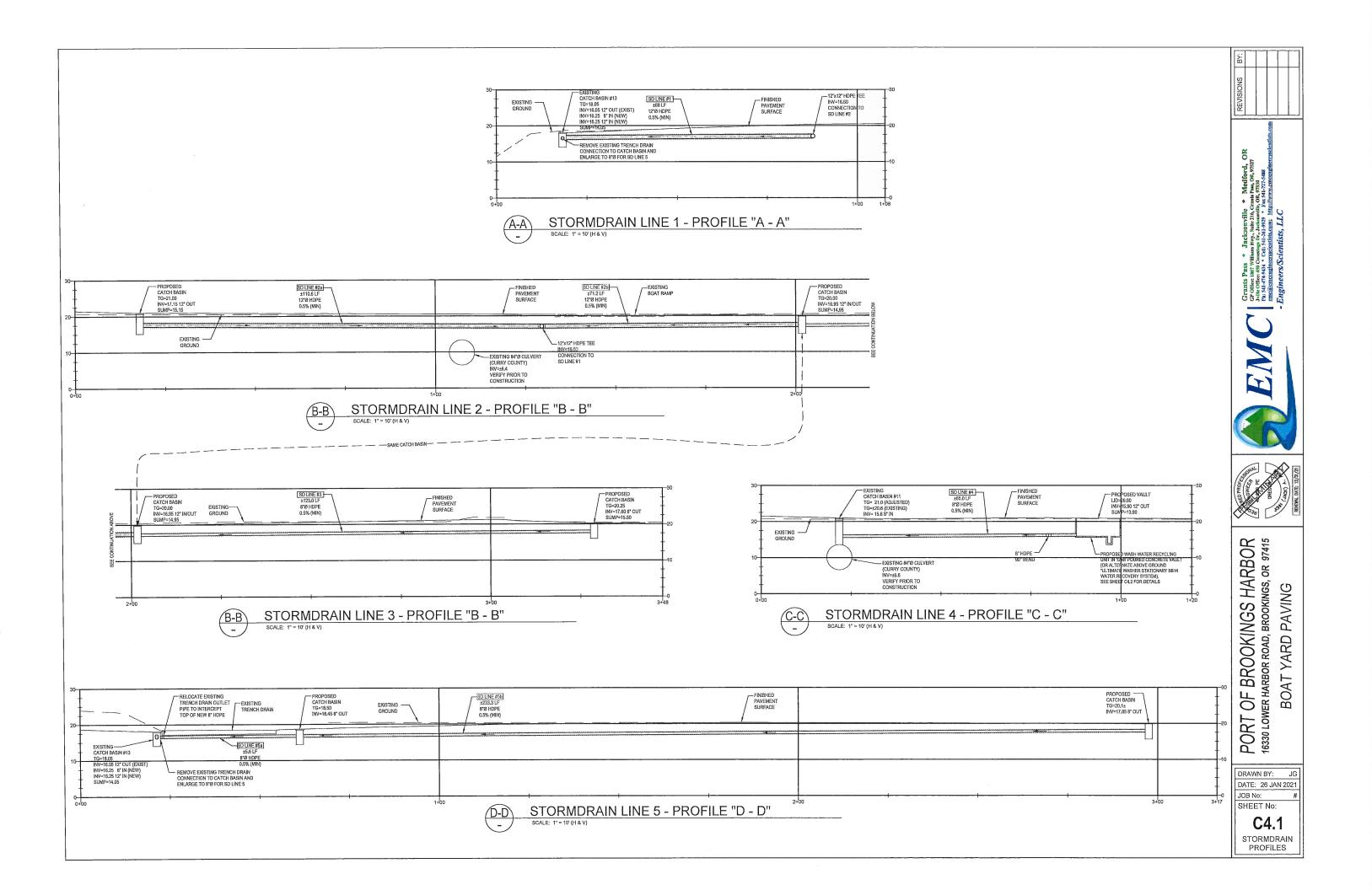
C2.0 EXISTING CONDITIONS

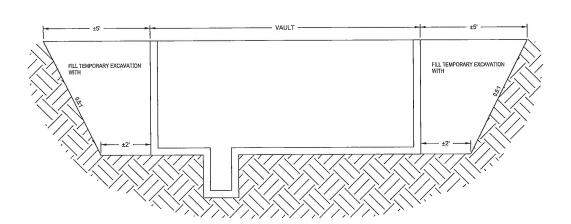




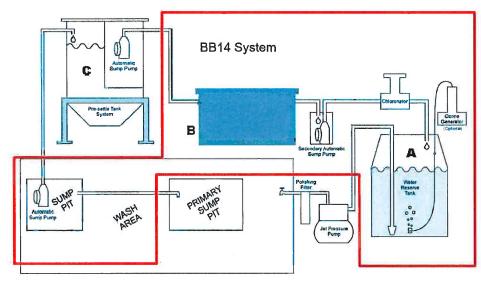








PRELIMINARY WASHWATER RECYCLING VAULT



ULTIMATE WASHER STATIONARY BB14 WATER RECOVERY SYSTEM

SPECIFICATIONS

FILTERS ARE REACHABLE FROM OUTSIDE

34 HP ELECTRIC MOTOR, 110V, 9 AMP

TYPO 267 POLISHING FILTERS

OLEOPHILIC (OIL ATTRACTING) COALESCING PLATES

OLEOPHILIC (OIL ATTRACTING) CALESCING PLATES

OIL ASSORPTION SKIMMER NEDIA

OIL ASSORPTION SKIMMER NEDIA

VIASHABLE OIL PLATES

POLYETHYLENE HOUSING

AUTO PUINP OUT SYSTEM

1 YEAR WARRANTY

25 AND SIMCRON FILTERS

WEIGHT: 300 LBS

220 GALLON RESERVE WATER TANK WITH 8" MANWAY ACCESS AND STAND

INLINE CHI-OFINATOR

AUTOMATIC OPERATION

SUPPLY PUMP WICHECK VALVE (110WBA)

SAFETY INSTRUCTION AND MAINTENANCE SCHEDULE





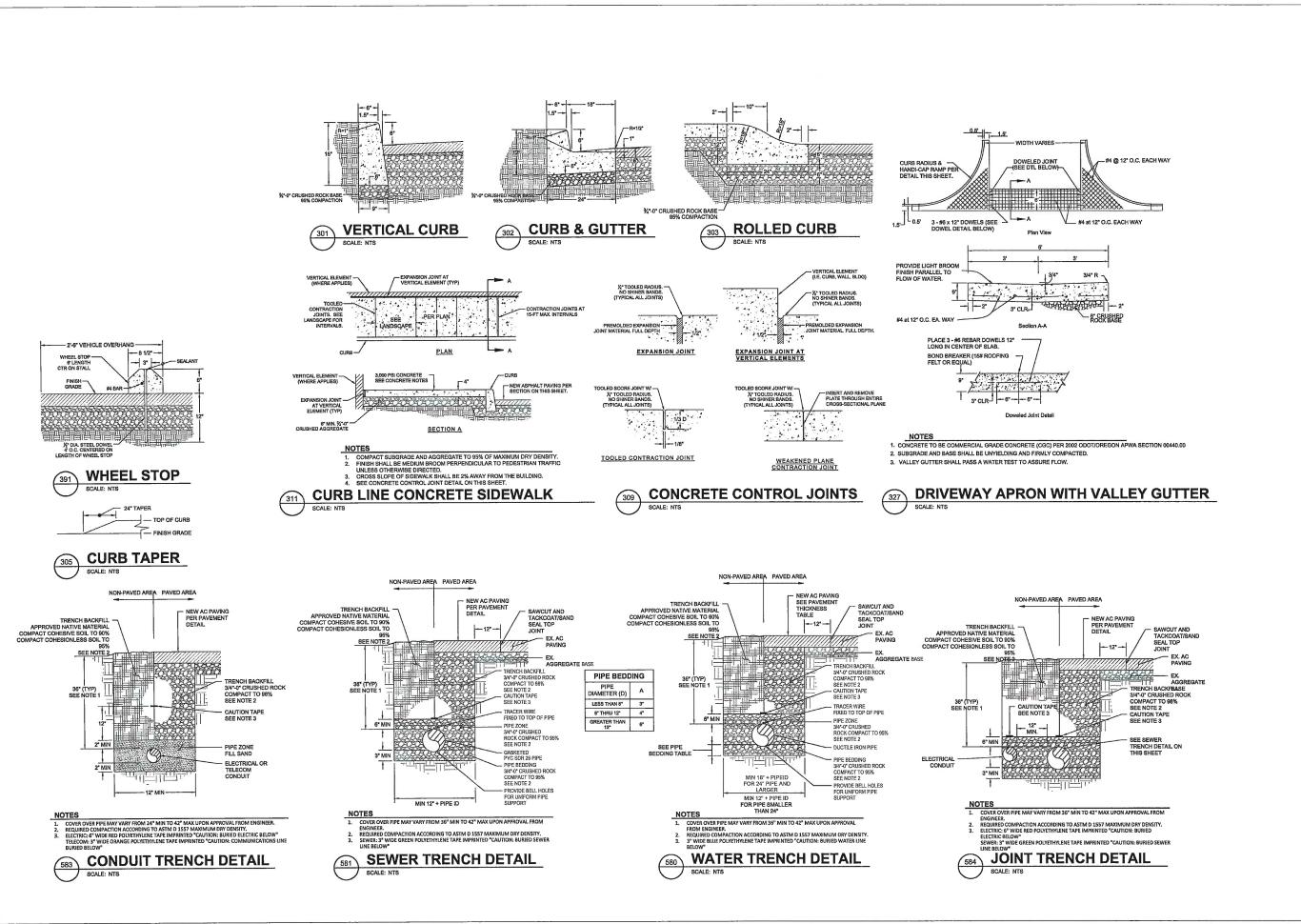


PORT OF BROOKINGS HARBOR 16330 LOWER HARBOR ROAD, BROOKINGS, OR 97415 BOAT YARD PAVING

ALTERNATE ABOVE-GROUND WASHWATER RECYCLING UNIT

DRAWN BY: JG DATE: 26 JAN 2021 JOB No: SHEET No:

C4.2 WASHWATER RECYCLING DETAILS



Grants I GP Office: 1 Julie Office: Ph.: 541-474 emc@emce

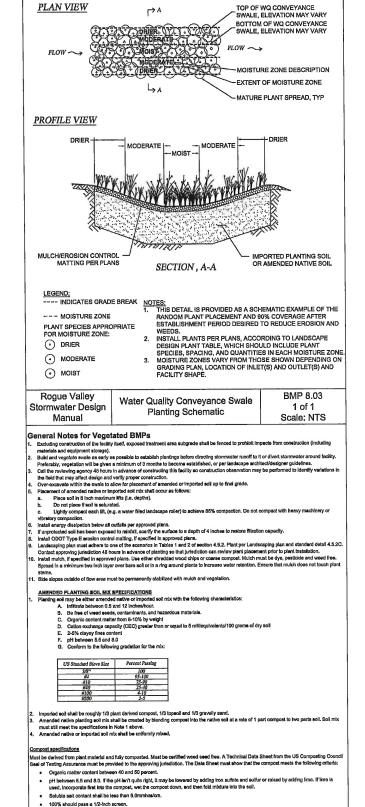
EM



PORT OF BROOKINGS HARBOR 16330 LOWER HARBOR ROAD, BROOKINGS, OR 97415 PAVING BOAT YARD

DRAWN BY: JG DATE: 26 JAN 2021 JOB No: SHEET No:

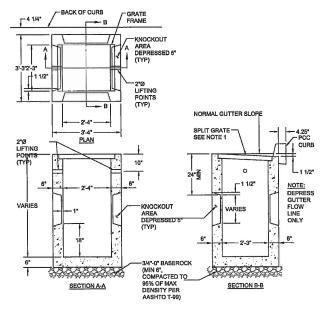
> C6.0 PROJECT DETAILS



 Stability Test Result shall Be Stable or Very Stable. Maturity Indicator for emergence and vigor shall be ≥ 80%.

Trace Metals Test Result shall Be Pess.

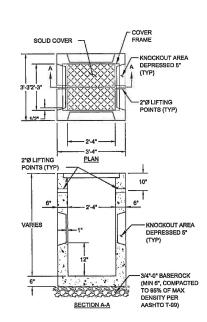
Carbon nitrogen ratio between 30:1 and 35:1.



IOLES

GRATE AND FRAME MAY EACH BE OF CAST IRON OR WELDED STEEL CONSTRUCTION.
GRATE AND FRAME TO BE ODOT G-2 TYPE 2 (BICYCLE SAFE).
FOR PRECAST BOX, CURB MUST BE HAND FORMED 10' EACH SIDE OF CATCH BASIN.
CONCRETE STRENGTH SHALL BE 5000 PS WITH FIBER MESH.
CATCH BASIN AND GRATE SHALL MEET HS20 LOADING.
A MINIMUM SUMP DEPTH OF 16' 18 REQUIRED.
OUTLET PIPE SHALL HAVE A MINIMUM OF 24" OF COVER.

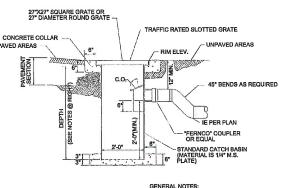
CATCH BASIN 2 CATC



CONSTRUCTION NOTES:

- COVER AND FRAME MAY EACH BE OF CAST IRON OR
 WELDED STEEL CONSTRUCTION.
 CONCRETE STRENGTH SHALL BE SOOP PSI WITH FIBER MESH.
 JUNCTION BASIN AND GRATE SHALL MEET HS20 LOADING.
- A MINIMUM SUMP DEPTH OF 18' IS REQUIRED
- 5. OUTLET PIPE SHALL HAVE A MINIMUM OF 24" OF COVER

JUNCTION BASIN 6 JUNC C6.1 SCALE: NTS



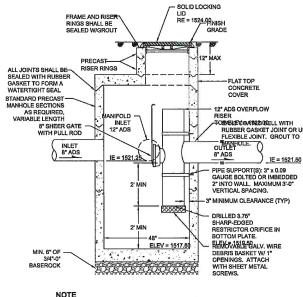
*NOTE: LYNCH OR APPROVED EQUAL CATCH BASIN.

 ASPHALT COAT ALL SURFACES OF CATCH BASIN AND CLEANOUT AFTER WELDING OR HOT DIP GALVANIZE (AT MANUFACTURER'S DISCRETION) 2. BREAK SHARP CORNERS AFTER

3. ALL WELDED STEEL CONSTRUCTION 4. 10 GAUGE STEEL MINIMUM THICKNESS

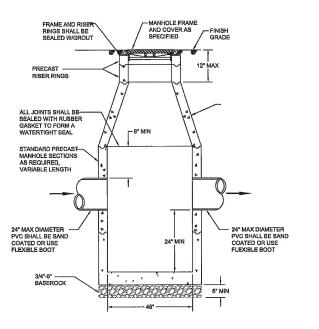
5. OPENING ON BOTTOM OF WATERSEAL TO BE GREATER, OR EQUAL TO AREA IN OUTLET PIPE. 6. STANDARD DEPTH: 48"

3 LYNCH STYLE CATCH BASIN SCALE: NTS



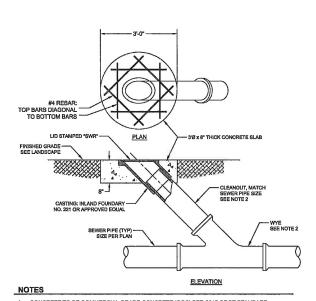
ALL PRECAST SECTIONS SHALL CONFORM TO REQUIREMENTS OF ASTM C 478.

CONTROL STRUCTURE MANHOLE C6.1 SCALE: NTS (PONDS 2 & 3)



ALL PRECAST SECTIONS SHALL CONFORM TO REQUIREMENTS OF ASTM C 478.

48" STORM MANHOLE C6.1 SCALE: NTS



 CONCRETE TO BE COMMERCIAL GRADE CONCRETE (CGC) PER 2015 ODOT STANDARD
 SPECIFICATIONS SECTION 00440. MINIMUM 3000 PSI COMPRESSIVE STRENGTH AT 28 DAYS. SPECIFICATIONS SECTION 00440. MINIMUM 3000 PSI COMI FITTINGS AND PIPE TO BE GASKETED PVC SDR 28.

TYPICAL CLEANOUT

SCALE: NTS

Jacksonville * N ms Hvy., Sale 216, Grant P. nog Dr., Jacksonville, Ott, 9 ill: 541-261-929 * Faz 541. rejentist.com; http://wwn Grants]
GP Office: 1
Julie Office: Ph. 541-474
emc@emce

EM



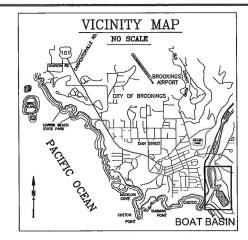
T OF BROOKINGS HARBOR

WER HARBOR ROAD, BROOKINGS, OR 97415

BOAT YARD PAVING LOWER HARBOR PORT 16330 LOW

DRAWN BY: JG DATE: 26 JAN 2021 JOB No: SHEET No:

> C6.1 PROJECT DETAILS



NATURAL FEATURES

EXISTING NATURAL RESOURCES OR NATURAL HAZARDS ON THE SUBJECT PROPERTY, INCLUDING WETLANDS, STREAMS, RIPARIAN AREAS, FLOOD PLAINS, OR FLOODWAYS TO BE DETERMINED BY ENGINEER

EXISTING TREE CANOPY

THERE ARE NO EXISTING TREES ON THE SUBJECT PROPERTY

CULTURAL RESOURCES

LOCALLY, OR FEDERALLY DESIGNATED HISTORIC AND/OR CULTURAL RESOURCES ON THE SITE OR ON ADJACENT PARCELS TO BE DETERMINED BY ENGINEER.

PUBLIC SERVICES

PUBLIC UTILITY SERVICES, INCLUDING WATER, SEWER, STORM DRAINAGE, POWER, TELEPHONE, CABLE INTERNET, AND GAS ARE AVAILABLE TO THE SUBJECT PROPERTY.

UTILITY STATEMENT

EXISTING UNDERGROUND UTILITIES ILLUSTRATED IN THESE PLANS ARE APPROXIMATED BASED ON MAPS OBTAINED FROM CURRY COUNTY GIS ELEVATIONS ESTIMATES, OR HAVE BEEN LOCATED BY A UTILITY LOCATE COMPANY. LAYOUT INDICATED IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. ALL LINES WITHIN PROJECTED WORK ZONE SHALL BE FIELD VERIFIED AS REQUIRED PRIOR TO CONSTRUCTION.

PROJECT DESCRIPTION

TITLE: PROPOSED ROAD

REFERENCE: 140

LOCATION: HARBOR ST

TAX LOT(S): 2500,2600,2700,2800

2900, 2999, 402

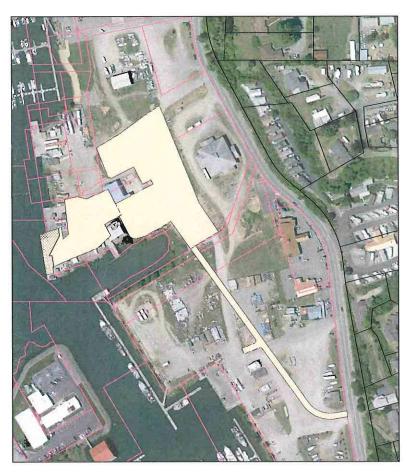
DRAWING REGISTER

140-CV 140-C100	COVER SHEET NOTES
140-C101	EXISTING CONDITIONS
140-C102	PROPOSED GRADING
140-C103	PROPOSED PAVING
140-C104	PROPOSED DRAINAGE
140-C105	DETAILS
140-C106	DETAILS

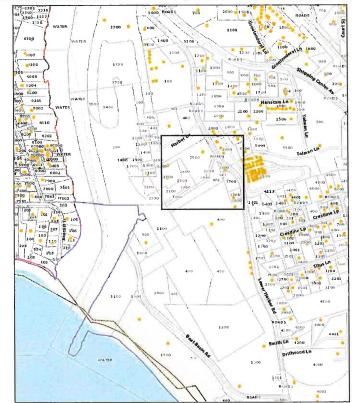


PORT OF BROOKINGS-HARBOR 2021 CIVIL IMPROVEMENTS

PROPOSED ROAD



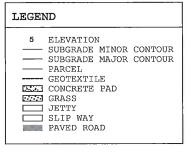
PROJECT OVERVIEW SCALE 1":200'



PORT OF BROOKINGS HARBOR MAP OF TAX LOTS

PRELIM GRADING NOTES

- 1. DEQ 1200-C PERMIT IS REQUIRED.
- 2. UNLESS DIRECTED OTHERWISE, REMOVE CLEARED AND GRUBBED MATERIAL FROM THE SITE AND DISPOSE AT AN APPROVED LOCATION.
- 3. PRIOR TO THE START OF CONSTRUCTION, VERIFY GRADES AT SAWCUT LOCATIONS AND MATCHING OF EXISTING GRADE LOCATIONS.
- 4. MINIMIZE TRAFFIC ON SOIL AREAS DURING WET WEATHER. IF THE SITE SOILS ARE EXPOSED DURING WET WEATHER, THE USE OF CRUSHED ROCK PLACED AS ENGINEERED FILL IN THE BOTTOM OF THE EXCAVATIONS MAY BE NECESSARY TO PROTECT THE SUBGRADE. TAKE ALL PRECAUTIONS TO LIMIT SURFACE DISTURBANCE AND PROTECT THE SITE GRADING AREA FROM EROSION AND RUNOFF.
- 5. UNLESS OTHERWISE NOTED, THE SAMPLING AND TESTING OF MATERIALS FOR USE ON THE JOBSITE SHALL BE AT THE EXPENSE OF THE CONTRACTOR. ALL TESTING OF MATERIALS AND WORKMANSHIP SHALL BE PERFORMED BY A CERTIFIED TESTER. RESULTS OF THE TESTS SHALL BE SENT DIRECTLY TO THE PROJECT ENGINEER AS WELL AS THE CONTRACTOR, BY THE LABORATORY. LOCATION AND FREQUENCY OF TESTS SHALL BE DESIGNATED BY THE GENERAL CONTRACTOR.
- 6. ALL CUT AND FILL SLOPES SHALL BE MAXIMUM OF 2:1.









BROOKING OF

04/04/2021 Drawn By INFRADRAFT Sheet No.

POR

GRADING NOTES

- 1. PRIOR TO THE CONSTRUCTION OF EMBANKMENTS, THE CONTRACTOR SHALL EXCAVATE UNSUITABLE FOUNDATION MATERIAL. BASEMENTS, TRENCHES AND HOLES ENCOUNTERED WITHIN EMBANKMENT LIMITS SHALL BE FILLED WITH APPROVED MATERIAL. PRIOR TO BACKFILLING THE CONTRACTOR SHALL BREAK CONCRETE FLOORS OF BASEMENTS AS DIRECTED. THE CONTRACTOR SHALL BREAK UP AND ROUGHEN THE GROUND SURFACE BEFORE EMBANKMENTS MATERIAL IS PLACED THE NATURAL GROUND UNDERLYING EMBANKMENTS SHELL BE COMPACTED TO THE DENSITY SPECIFIED FOR THE EMBANKMENT MATERIALS TO BE PLACED, AND TO THE DEPTH OF THE GRUBBING OR A MINIMUM OF 6 INCHES.
- 2. EMBANKMENT CONSTRUCTION SHALL INCLUDE PREPARATION OF THE AREAS UPON WHICH EMBANKMENTS ARE PLACED, THE PLACEMENT AND COMPACTION OF APPROVED EMBANKMENT MATERIALS AND FILLING OF HOLES, PITS AND OTHER DEPRESSIONS WITHIN THE SUBDIVISION.
- 3. THE CONTRACTOR SHALL PLACE EMBANKMENTS AND FILLS IN THE HORIZONTAL LAYERS OF 8 INCHES MAXIMUM DEPTH AND COMPACT EACH LAYER TO THE DENSITY SPECIFIED.
- 4. EMBANKMENT SHALL NOT BE CONSTRUCTED WHEN THE EMBANKMENT MATERIAL OR THE FOUNDATION ON WHICH THE EMBANKMENT WOULD BE PLACED IS FROZEN.
- 5. IMMEDIATELY PRIOR TO COMPLETION OF THE EARTHWORK, THE CONTRACTOR SHALL CLEAN THE ENTIRE WORK AREA OF DEBRIS AND FOREIGN MATTER.
- 6. THE MAXIMUM DENSITY OF COMPACTED MATERIAL WILL BE DETERMINED BY AASHTO T-99
- 7. THE CONTRACTOR SHALL COMPACT ALL EMBANKMENTS, FILLS AND BACKFILLS TO A MINIMUM IN PLACE DENSITY OF 95 PRESENT.
- 8. THE CONTRACTOR SHALL WATER THE MATERIALS TO PROVIDE OPTIMUM MOISTURE FOR COMPACTION OF EMBANKMENT AND BACKFILLS. EMBANKMENTS OD BACKFILL MATERIALS SHALL NOT BE PLACED IN FINAL POSITION UNTIL MOISTURE IN EXCESS OF OPTIMUM MOISTURE HAS BEEN REMOVED.
- 9. IF THE SPECIFIED COMPACTION IS NOT OBTAINED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER. THE CONTRACTOR MAY BE REQUIRED TO USE A MODIFIED COMPACTION PROCEDURE OR APPLY ADDITIONAL COMPACTIVE EFFORT. IF APPROVED MATERIALS MEETING THE SPECIFICATIONS CANNOT BE COMPACTED TO THE REQUIRED DENSITY REGARDLESS OF COMPACTIVE EFFORT OR METHOD, THE ENGINEER MAY REDUCE THE REQUIRED DENSITY OR DIRECT THE ALTERNATE MATERIALS BE USED. IN NO CASE SHALL EARTHWORK OPERATIONS PROCEED UNTIL THE CONTRACTOR IS ABLE TO COMPACT THE MATERIAL TO THE SATISFACTION OF THE ENGINEER.
- 10.DEQ 1200-C PERMIT IS NOT REQUIRED.
- 11.UNLESS DIRECTED OTHERWISE, REMOVE CLEARED AND GRUBBED MATERIAL FROM THE SITE AND DISPOSE AT AN APPROVED LOCATION.
- 12.UNLESS OTHERWISE NOTED, THE SAMPLING AND TESTING OF MATERIALS FOR USE ON THE JOBSITE SHALL BE AT THE EXPENSE OF THE CONTRACTOR. ALL TESTING OF MATERIALS AND WORKMANSHIP SHALL BE PERFORMED BY A CERTIFIED TESTER. RESULTS OF THE TESTS SHALL BE SENT DIRECTLY TO THE PROJECT ENGINEER AS WELL AS THE CONTRACTOR, BY THE LABORATORY. LOCATION AND FREQUENCY OF TESTS SHALL BE DESIGNATED BY THE GENERAL CONTRACTOR.
- 13.ALL CUT AND FILL SLOPES SHALL BE MAXIMUM OF 2:1.

GEOTECHNICAL NOTE

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH THE PROJECT ENGINEER FOR REQUIRED REMEDIATION. THE CONTRACTOR SHALL COORDINATE WITH THE PROJECT ENGINEER FOR REQUIRED SITE OBSERVATIONS AND TESTING OF ALL FILLS.

GENERAL NOTES

NO SCALE





(LOT 2900, MAP '3605ZZDB')

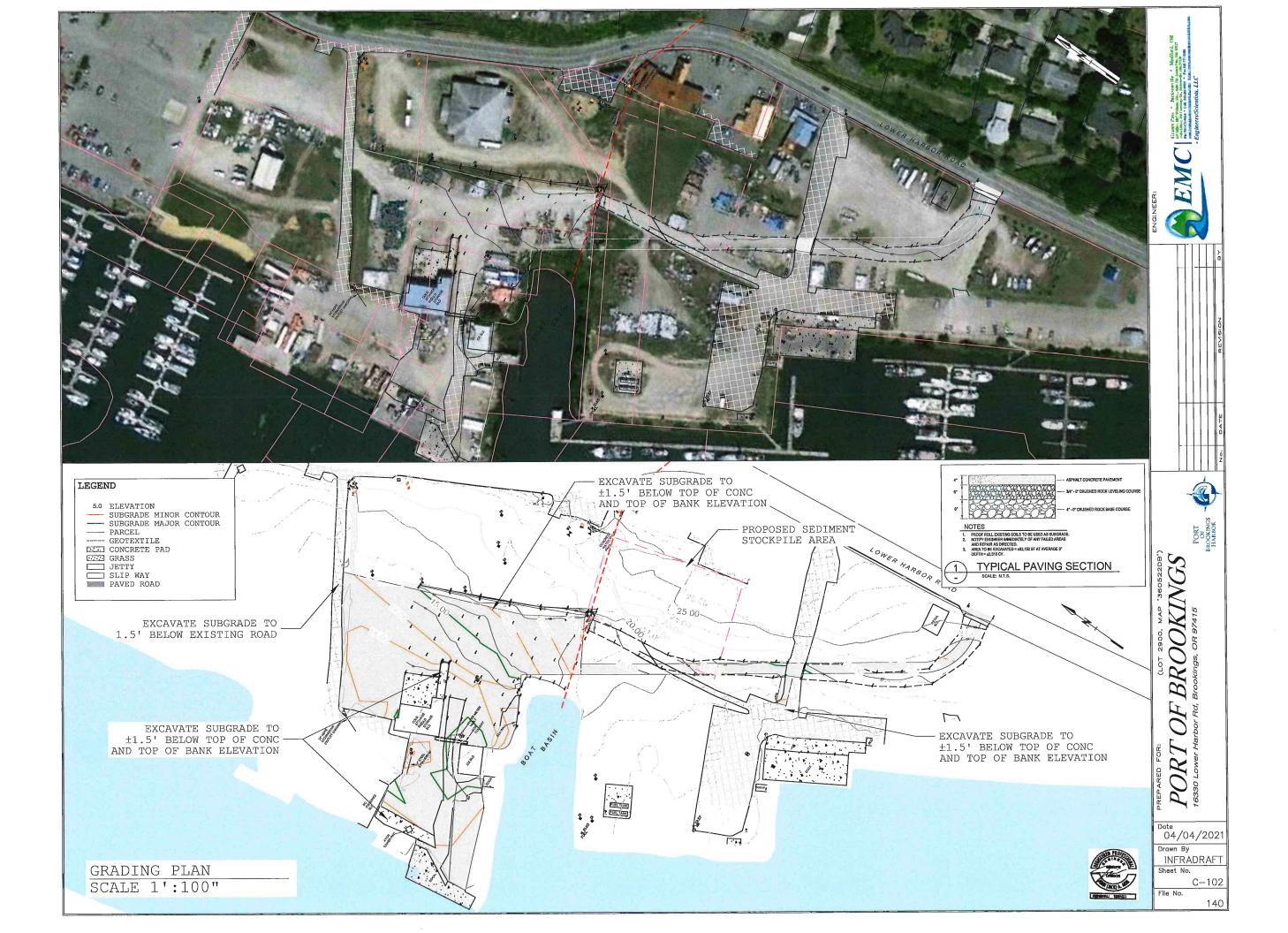
F BROOKINGS, OR 97415

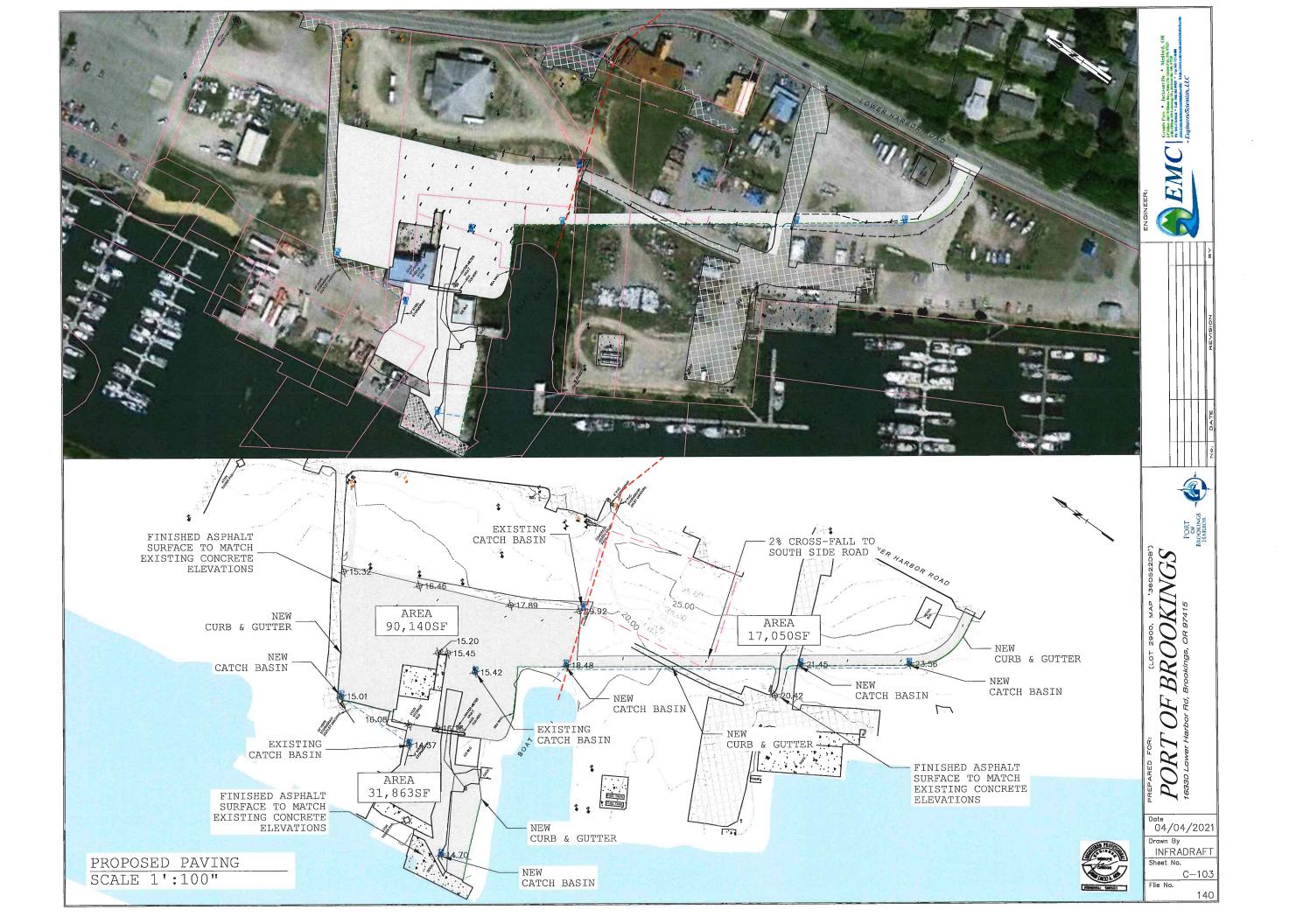
Oate 04/04/2021

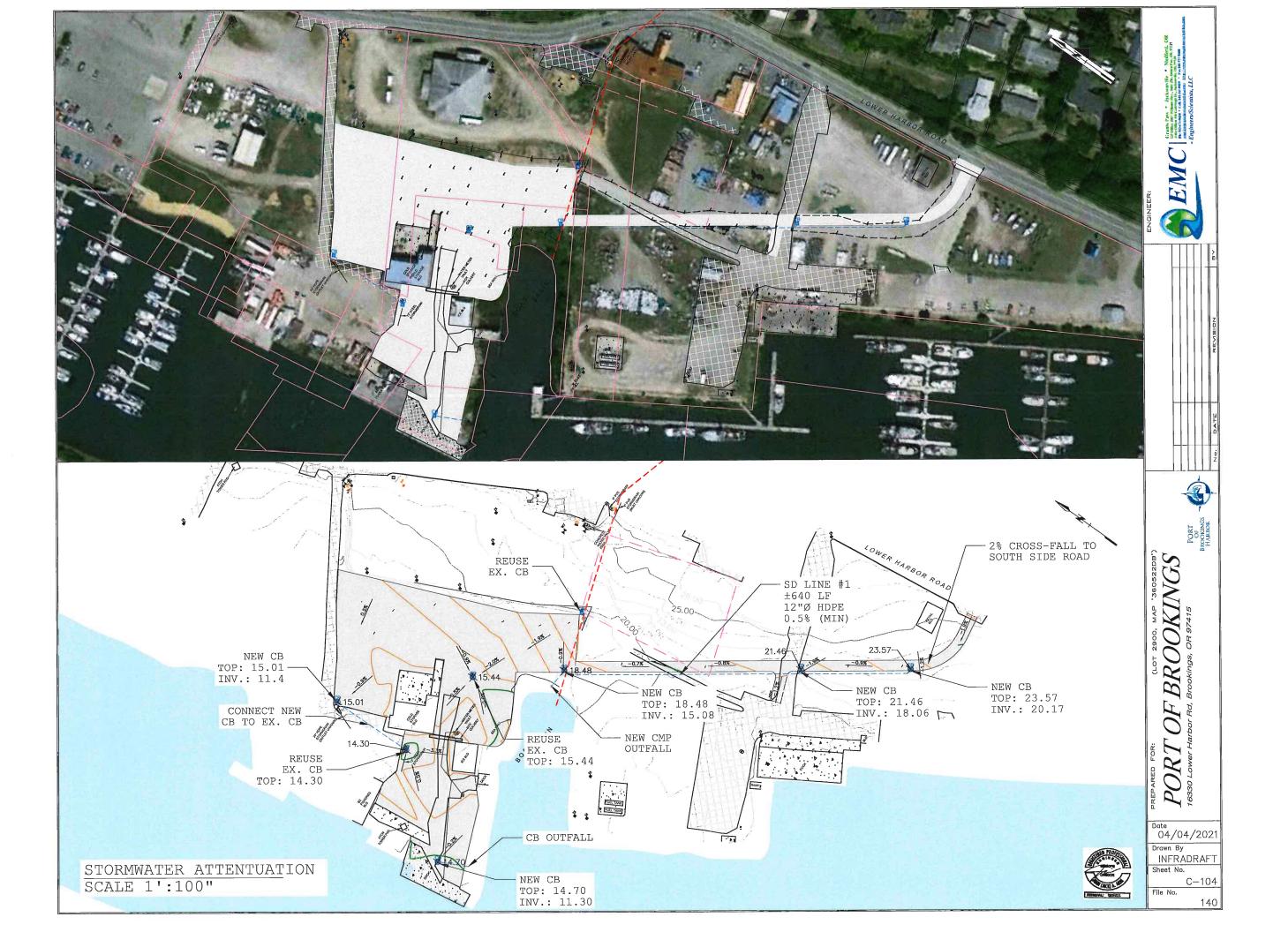
Drawn By
INFRADRAFT
Sheet No.

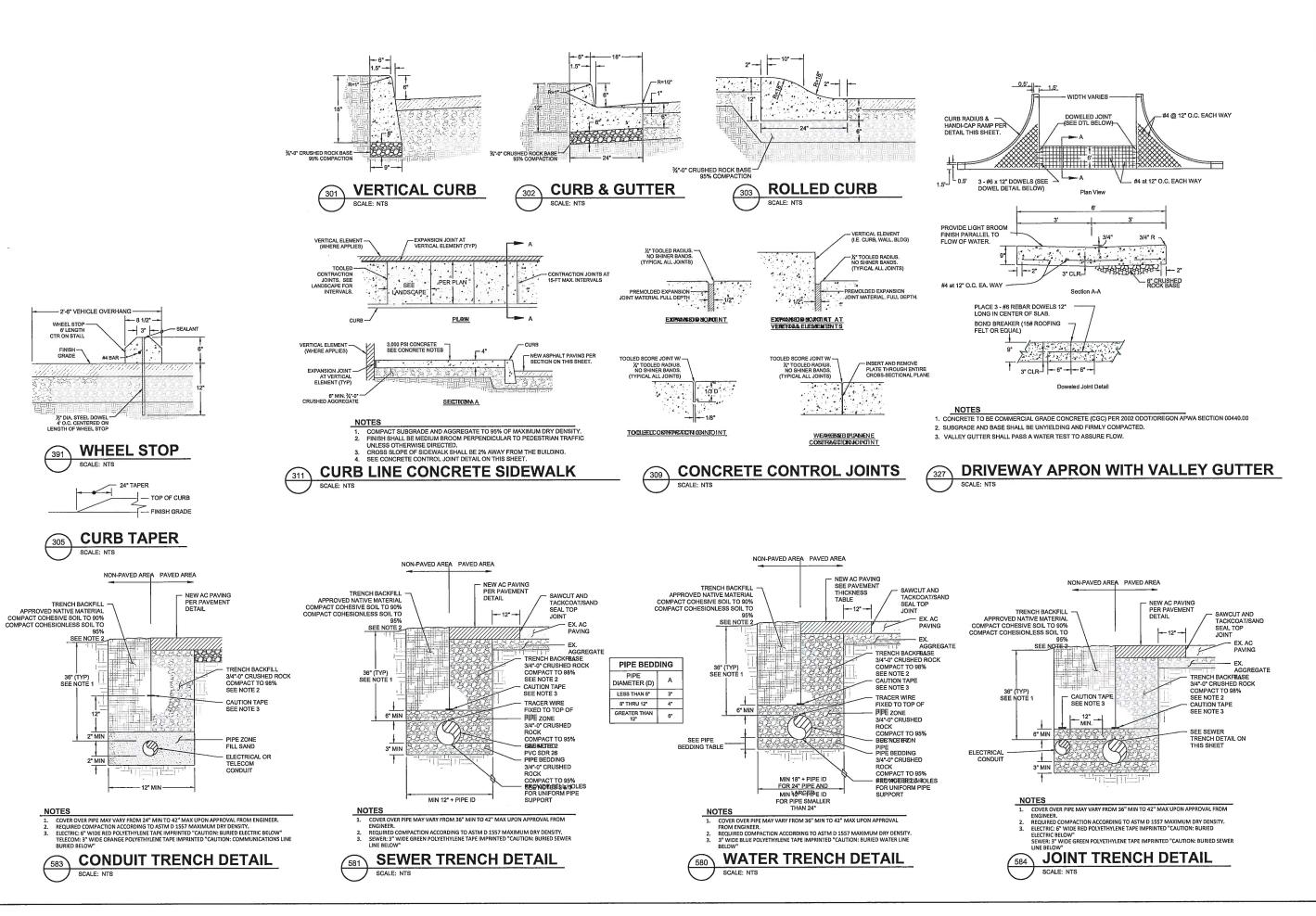
C-100











ants Pass * Jacksonville * Medford, OR Morte 1807 villema II-5, seles Actions from 00, 17527 (Office 1807 villema II-5, seles Actions from 00, 17527 (14-14-444, Let.) * Jackson 180-177-5488 (Generalineerscientists com inscrepetechnologies@charter.net (Morte norsatisserscientists.com

Grants Pass * ... Crones soo William Cornes soo Cornes s

Services Programme Cook Programme Co

97415 PROPERTY OF CONTROL OF CONT

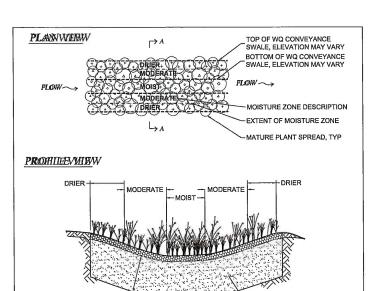
P**ORTTOFFBRECKOKOKOGA KIKARBOR** 1633DLUWKERAKKEROKOKOKIWAS/UKI

HINGPPIDELAGISZ 2020/MARROGENEKATIST

DRAWN BY: TAM DATE: 09/01/20 JOB NO: 20-XXX

C105

PROJECT DETAILS



SECTION AMA

LEGEND:

LEGEND:
---- INDICATES GRADE BREAK
NOTES:

1. THIS DETAIL IS PROVIDED AS A SCHEMATIC EXAMPLE OF THE

--- - MOISTURE ZONE PLANT SPECIES APPROPRIATE FOR MOISTURE ZONE:

MULCH/EROSION CONTROL

MATTING PER PLANS

DRIER

♠ MODERATE MOIST

Rogue Valley

Stormwater Design

Manual

Water Quality Conveyance Swale Planting Schematic

BMP 8.03 1 of 1 Scale: NTS

IMPORTED PLANTING SOIL

OR AMENDED NATIVE SOIL

RANDOM PLANT PLACEMENT AND 90% COVERAGE AFTER ESTABLISHMENT PERIOD DESIRED TO REDUCE EROSION AND

WELDS.

INSTALL PLANTS PER PLANS, ACCORDING TO LANDSCAPE
DESIGN PLANT TABLE, WHICH SHOULD INCLUDE PLANT
SPECIES, SPACING, AND QUANTITIES IN EACH MOISTURE ZONE.
MOISTURE ZONES VARY FROM THOSE SHOWN DEPENDING ON

GRADING PLAN, LOCATION OF INLET(S) AND OUTLET(S) AND

General Notes for Vegetated BMPs

Excluding construction of the facility itself, exposed treatment area subgrade shall be fenced to prohibit impacts from construction (including materials and equipment storage).

Build and vegetate swate as early as possible to establish plantings before directing stormwater runoff to it or divert stormwater around facility. v. vegetation will be given a minimum of 3 months to become established, or per landscape architect/designer guidel

Preferably, vegetation will be given a minimum of 3 months to become established, or per landscape Call the reviewing agency 48 hours in advance of constructing this facility so construction to losservation the field that may affect design and verify proper construction. Over-executed within the swell or lailow for placement of amended or imported soil up to final grade. Placement of amended native or imported soil mix shall occur as follows:

a. Place soil in 6 inch maximum tills (i.e. depths).

b. Do not place if soil is saturated.

Lightly compact each lift, (e.g. a water filled landscape roller) to achieve 85% compaction. Do not compact with heavy machinery or Install energy dissipation below all outfalts per approved plans.

Install energy dissipation below all outralisper approved plans.

If unprotected so has been expected to rainfall, scarify the surface to a depth of 4 inches to restore filtration capacity.

Install ODOT Type E erosion control matting, if specified in approved plans.

Landscaping plan must adhere to one of the scenarios in Tables 1 and 2 of section 4.5.2. Plant per Landscaping plan and standard detail 4.5.2C.

Contact approving jurisdiction 48 hours in advance of planting so that jurisdiction can review plant placement pfor to plant installation.

Install mulch, if specified in approved plans. Use either shredded wood chips or coarse compost. Mulch must be dye, pestigated and weed free.

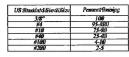
Spread in a minimum two inch layer over bare soil or in a ring around plants to increase water retention. Ensure that mulch does not touch plant stens.

Side slopes outside of flow area must be permanently stabilized with mulch and vegetation

AMENDED PLANTING SOIL MIX SPECIFICATIONS
Planting soil may be either amended native or imported soil mix with the following characteristics: A. Infiltrate between 0.5 and 12 inches/hour

... our new or weed seeds, contaminants, and hezardous materials.
2. Organic content matter from 8-10% by weight
3. Calion exchange capacity (CEC) greater than or equal to 5 milliequivalents/100 grams of dry soil
3.25% day

pH between 5.5 and 8.0



nded native planting soil mix shall be created by blending compost into the native soil at a rate of 1 part compost to two parts soil. Soil mb

must still meet the specifications in Note 1 above.

mended native or imported soil mix shall be uniformly mixed

Compost specifications

Must be derived from plant material and fully composted. Must be certified weed seed free. A Technical Data Sheet from the US Composting Council Seal of Testing Assurance must be provided to the approving jurisdiction. The Data Sheet must show that the compost meets the following criteria: Organic matter content between 40 and 50 percent.

pH between 5.5 and 8.0. If the pH isn't quite right, it may be lowered by adding iron sulfate and sulfur or raised by adding lime. If time is used, incorporate first into the compost, wet the compost down, and then fold mixture into the soil.

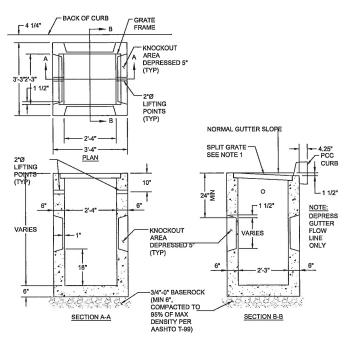
Soluble salt content shall be less than 6.0mmhos/cm.

100% should pass a 1/2-inch screen.

. Stability Test Result shall Be Stable or Very Stable Maturity indicator for emergence and vigor shall be ≥ 80%.

Trace Metals Test Result shall Be Pass.

Carbon nitrogen ratio between 30:1 and 35:1.

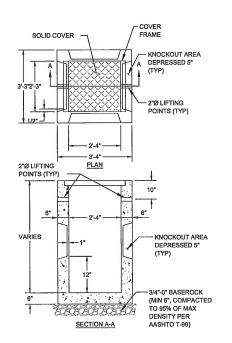


NOTES

- GRATE AND FRAME MAY EACH BE OF CAST IRON OR WELDED STEEL CONSTRUCTION, GRATE AND FRAME TO BE ODOT G-2 TYPE 2 (BICYCLE SAFE). FOR PRECAST BOX, CURB MUST BE HAND FORMED 10 EACH SIDE OF CATCH BASIN. CONCRETE STRENGTH SHALL BE 5000 PSI WITH FIBER MESH. CATCH BASIN AND GRATE SHALL MEET HS20 LOADING.

A MINIMUM SUMP DEPTH OF 18" IS REQUIRED.
 OUTLET PIPE SHALL HAVE A MINIMUM OF 24" OF COVER.



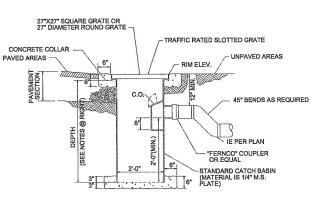


CONSTRUCTION NOTES:

1. COVER AND FRAME MAY EACH BE OF CAST IRON OR

1. COVER AND FRAME MAY EACH BE OF CAST IRON OR WELDOD STEEL CONSTRUCTION.
2. CONCRETE STRENGTH SHALL BE 5000 PSI WITH FIBER MESH.
3. JUNCTION BASIN AND GRATE SHALL MEET HS20 LOADING.
4. A MINIMUM SUMP DEFIT OF 18" IS REQUIRED.
5. OUTLET PIPE SHALL HAVE A MINIMUM OF 24" OF COVER.





GENERAL NOTES:

*NOTE: LYNCH OR APPROVED EQUAL CATCH BASIN

SCALE: NTS

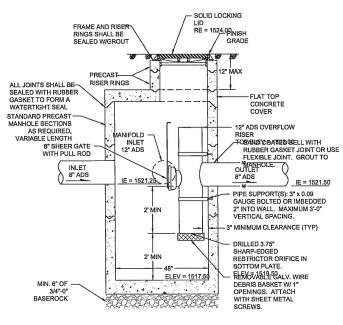
 ASPHALT COAT ALL SURFACES OF CATCH BASIN AND CLEANOUT AFTER WELDING OR HOT DIP GALVANIZE (AT MANUFACTURER'S DISCRETION) 2. BREAK SHARP CORNERS AFTER

3. ALL WELDED STEEL CONSTRUCTION 4. 10 GAUGE STEEL MINIMUM THICKNESS

5. OPENING ON BOTTOM OF WATERSEAL TO BE GREATER, OR EQUAL TO AREA IN OUTLET PIPE.

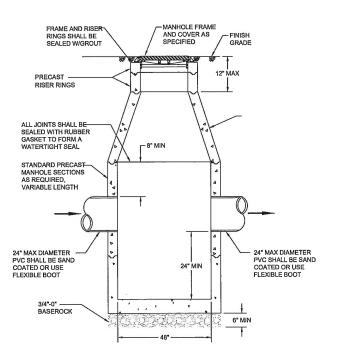
6 STANDARD DEPTH: 48"

LYNCH STYLE CATCH BASIN



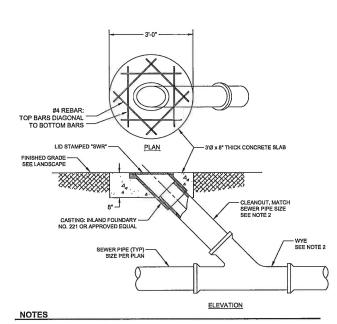
ALL PRECAST SECTIONS SHALL CONFORM TO REQUIREMENTS OF ASTM C 478.

CONTROL STRUCTURE MANHOLE



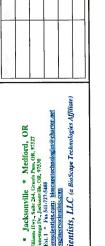
ALL PRECAST SECTIONS SHALL CONFORM TO REQUIREMENTS OF





CONCRETE TO BE COMMERCIAL GRADE CONCRETE (CGC) PER 2015 ODOT STANDARD SPECIFICATIONS SECTION 00440. MINIMUM 3000 PSI COMPRESSIVE STRENGTH AT 28 DAYS.
 FITTINGS AND PIPE TO BE GASKETED PVC SDR 26.

TYPICAL CLEANOUT SCALE: NTS







PORTOBERANDOKORGA NIBORBOR 163301 LOWER AHERBOR ROBEIGER WORLINGS 7 DAR

H**im**coptire*rasis*2 2**02**0)**(Marrixoemee**asts)

DRAWN BY: DATE: 09/01/20 JOB NO: 20-XXX

C106

PROJECT DETAILS