

NARRAGANSETT BAY COMMISSION

PHASE III COMBINED SEWER OVERFLOW PROGRAM  
PAWTUCKET TUNNEL - CONSTRUCTION MATERIAL REUSE  
BUCKLIN POINT LANDFILLS - EAST PROVIDENCE, RI

CONTRACT NO. 308.01C

CRMC ASSENT APPLICATION / RIDEM ORDER OF APPROVAL MODIFICATION  
MARCH 4, 2022



STATE OF RHODE ISLAND

DANIEL J. MCKEE \_\_\_\_\_ GOVERNOR



RHODE ISLAND  
INFRASTRUCTURE BANK

VAHID OWNJAZAYERI \_\_\_\_\_ CHAIRMAN

JEFFREY R. DIEHI \_\_\_\_\_ EXECUTIVE DIRECTOR  
AND CEO



VINCENT J. MESOLELLA JR. \_\_\_\_\_ CHAIRMAN

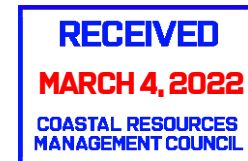
LAURIE A. HORRIDGE \_\_\_\_\_ EXECUTIVE DIRECTOR

RICHARD BERNIER, P.E. \_\_\_\_\_ DIRECTOR OF  
CONSTRUCTION  
AND ENGINEERING

KATHRYN KELLY, P.E. \_\_\_\_\_ CSO PROGRAM  
MANAGER

DAVID C. BOWEN, P.E. \_\_\_\_\_ ENGINEERING  
MANAGER

PROGRAM MANAGEMENT TEAM



**RECEIVED**  
**MARCH 4, 2022**  
**COASTAL RESOURCES**  
**MANAGEMENT COUNCIL**



LOCUS MAP  
SCALE: N.T.S.

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| EXISTING | LEGEND                               | PROPOSED |
|----------|--------------------------------------|----------|
| ---      | PROPERTY LINE                        | ---      |
| ---      | SETBACKS                             | ---      |
| ---      | FASCIUM LINE                         | ---      |
| ---      | CONTOUR                              | ---      |
| X 407.5  | SPOT ELEVATION                       | X 55.50  |
| D --- D  | DRAINAGE LINE                        | SDP ---  |
| W --- W  | WATER LINE                           | W ---    |
| S --- S  | FIRE WATER LINE                      | FW ---   |
| G --- G  | SANITARY SEWER LINE                  | SS ---   |
| E --- E  | GAS LINE                             | G ---    |
| T --- T  | UNDERGROUND ELECTRIC                 | E ---    |
| ---      | TELEPHONE LINE                       | TL ---   |
| ---      | OVERHEAD ELECTRIC LINE               | OH ---   |
| ---      | LIMIT OF DISTURBANCE                 | LOD ---  |
| ---      | LIMIT OF CONTRACT                    | LOC ---  |
| ■        | CATCH BASIN                          | ■        |
| ⊕        | HYDRANT                              | ⊕        |
| ⊙        | DRAINAGE MANHOLE                     | ⊙        |
| ⊙        | SEWER MANHOLE                        | ⊙        |
| ⊙        | UTILITY POLE                         | ⊙        |
| ⊙        | WATER VALVE                          | ⊙        |
| ⊙        | GAS GATE                             | ⊙        |
| ---      | TREE LINE                            | ---      |
| ---      | WOOD RAIL FENCE                      | ---      |
| ---      | CHAINLINK FENCE                      | ---      |
| ---      | INTEGRATED NETTING & CHAINLINK FENCE | ---      |
| ---      | GUARDRAIL                            | ---      |
| ---      | CURBING                              | ---      |
| ---      | EDGE OF PAVEMENT                     | ---      |
| ---      | SAWCUT LINE                          | ---      |
| ---      | SIGN                                 | ---      |
| ---      | COMPOST FILTER SOCK                  | ---      |
| ---      | NO. OF PARKING SPACES                | ---      |
| ---      | WETLAND EDGE                         | ---      |
| ---      | 50' PERIMETER WETLAND                | ---      |
| ---      | 200' RIVERSHANK                      | ---      |
| ---      | FEMA FLOOD PLAIN                     | ---      |
| TP #     | TEST PIT                             | TP #     |
| BIT #    | BORING                               | BIT #    |
| ---      | RIPRAP                               | ---      |
| ---      | BEGINNING/END OF DIRECTIONAL WORK    | ---      |
| ---      | BITUMINOUS PAVEMENT                  | ---      |

- ABD = ABANDONED
- BC = BOTTOM OF CURB
- BIT = BITUMINOUS
- BM = BENCHMARK
- BW = GRADE AT BOTTOM OF WALL
- CB = 4' DIA. CATCH BASIN UNLESS OTHERWISE NOTED
- CC = VERTICAL CONCRETE CURB
- CFS = COMPOST FILTER SOCK
- CI = CAST IRON
- CL = CLASS
- CDL = CEMENT-LINED DUCTILE IRON
- CO = CLEANOUT
- CONC = CONCRETE
- DEM = DEMOLITION
- DI = DIAMETER
- DMH = DRAIN MANHOLE
- ELEV = ELEVATION
- EXP = EXISTING
- FT = FOOT
- GRAN = GRANITE
- GTD = GRADE TO DRAIN
- HDPE = HIGH DENSITY POLYETHYLENE PIPE
- INV = INVERT
- LOC = LIMIT OF CONTRACT
- LOD = LIMIT OF DISTURBANCE
- LP = LOW POINT
- MAX = MAXIMUM
- MIN = MINIMUM
- PE = POLYETHYLENE
- PERF = PERFORATED
- PVC = POLYVINYL CHLORIDE
- RCP = REINFORCED CONCRETE PIPE
- R.I. STD. = RHODE ISLAND STANDARD
- RD = REMOVE AND DISPOSE
- R/W = RIGHTS
- RMH = SEWER MANHOLE
- TC = TOP OF CURB
- TEMP = TEMPORARY
- TP = TEST PIT
- TW = TOP OF WALL
- (TV) = TYPICAL
- UP = UTILITY POLE
- VCC = VERTICAL GRANITE CURB

| REV | DATE | BY | DESCRIPTION |
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|              |  |                     |  |
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| SCALE        | WARNING  | DESIGNED: C.J.MS/DW | PERMIT SUBMISSION - MARCH 4, 2022  |
| NOT TO SCALE | IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE | DRAWN: RB/AL        | NOT FOR CONSTRUCTION   |
|              |  | CHECKED: BB         | This document is an interim document and not suitable for construction. As an interim document, it may contain data that is potentially inaccurate or incomplete and is not to be relied upon without the express written consent of the preparer. |

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NARRAGANSETT BAY COMMISSION  
 PHASE III COMBINED SEWER  
 OVERFLOW PROGRAM

NBC CONTRACT NO. 308.01C  
 CIVIL  
 PHASE III COMBINED SEWER OVERFLOW PROGRAM  
 PAWTUCKET TUNNEL - CONSTRUCTION MATERIAL REUSE - BUCKLIN POINT  
 DRAWING INDEX & LEGEND



SHEET  
 C-1  
 195130227

**REFERENCES**

- PROJECT LOCATION: BUCKLIN POINT WASTEWATER TREATMENT FACILITY (WVTF), 102 CAMPELL AVENUE, EAST PROVIDENCE, RI.
- PROJECT OWNER IS NARRAGANSETT BAY COMMISSION (NBC), HEREIN REFERRED TO AS "THE OWNER". THE PROPERTY IS IDENTIFIED AS CITY OF EAST PROVIDENCE PARCEL 30201/001, THE PARCEL IS 78.57 ACRES BASED ON EAST PROVIDENCE TAX ASSESSOR INFORMATION.
- SURVEY INFORMATION FOR BUCKLIN POINT WVTF PROVIDED BY:
  - TOPOGRAPHIC AND BOUNDARY SURVEY PREPARED BY BRYANT ASSOCIATES, LINCOLN, RHODE ISLAND, DATED AUGUST 18, 2019 AND DECEMBER 18, 2020 IN THE AREA OF BOTH LANDFILLS, HORIZONTAL DATUM: NAD 83, RI STATE PLANE COORDINATES, VERTICAL DATUM: NGVD 1929.
  - EXISTING SITE CONDITIONS SHOWN FOR OTHER AREAS OF THE SITE ARE BASED ON A SURVEY CONDUCTED BY AERO TECH CORPORATION OF PROVIDENCE, RHODE ISLAND, DATED MARCH 2010. ADDITIONAL INFORMATION HAS BEEN OBTAINED THROUGH FIELD SURVEYS AND INFORMATION PROVIDED BY EXISTING DRAWINGS AND PLANT PERSONNEL, COMPILED BY CDM SMITH IN 2010 AND 2019. PORTIONS UPDATED BY GREEN INTERNATIONAL AFFILIATES INC, NOVEMBER 2019. TOPOGRAPHIC AND BOUNDARY SURVEY PREPARED BY BRYANT ASSOCIATES, LINCOLN, RHODE ISLAND, DATED AUGUST 18, 2019 AND DECEMBER 18, 2020. HORIZONTAL DATUM: NAD 83, RI STATE PLANE COORDINATES, VERTICAL DATUM: NGVD 1929.
- THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), THE RHODE ISLAND STATE BUILDING CODE (LATEST EDITION), AND RHODE ISLAND STANDARD DETAILS ARE MADE A PART HEREOF AS FULLY AND COMPLETELY AS IF ATTACHED HERETO, REFERENCES TO MEASUREMENT AND PAYMENT EXCLUDED.
- BORINGS DEPICTED ON DRAWINGS WERE PERFORMED BY NEW ENGLAND BORING CONTRACTORS AND WITNESSED BY PARE CORPORATION FROM OCTOBER 10, 2017 TO NOVEMBER 28, 2017.
- EXISTING DRAINAGE INFORMATION COMPILED FROM DRAWING ENTITLED "ADDITIONS AND MODIFICATIONS TO EXISTING WASTEWATER FACILITIES, SLUDGE LANDFILL-PLAN", PREPARED BY METCALF & EDDY INC, AND STAMPED "RECORD DRAWING" WITH DATE OF AUGUST 21, 1986.
- SHORELINE FEATURE AND WETLAND FLAGS IDENTIFYING WETLAND RESOURCE AREAS WERE PLACED AND LOCATED BY PARE CORPORATION UNLESS OTHERWISE NOTED, WETLAND FLAGS AND SHORELINE FEATURE LOCATED BY GPS.
- RECORD DRAWINGS OF THE BLACKSTONE VALLEY INTERCEPTOR ARE AVAILABLE ELECTRONICALLY. NOTE THE VERTICAL DATUM FOR THE BLACKSTONE VALLEY INTERCEPTOR RECORD DRAWINGS ARE NOT CONSISTENT WITH THIS PROJECT'S DATUM. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING FIELD CONDITIONS.

**GENERAL NOTES**

- THE WORK DEPICTED HEREIN IS PROPOSED TO BE CARRIED OUT BY THE PAWTUCKET TUNNEL DESIGN BUILDER CURRENTLY UNDER CONTRACT TO NBC FOR CONTRACT 308.01C PAWTUCKET TUNNEL. DESIGN BUILDER SHALL COORDINATE THEIR ACTIVITIES WITH OTHER CONSTRUCTION PROJECTS THAT MAY BE ONGOING AT THE SITE IN ADDITION TO NORMAL WVTF OPERATIONS.
- PER AVAILABLE RIDEM MAPPING, THE PROJECT SITE IS LOCATED OUTSIDE OF A NATURAL HERITAGE AREA.
- PRIOR TO COMMENCING WORK THE DESIGN-BUILDER SHALL EMPLOY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF RHODE ISLAND TO ESTABLISH CONTROL ON THE SITE AND TO PERFORM FIELD MEASUREMENTS AS REQUIRED TO LAYOUT THE PROPOSED SITE IMPROVEMENTS.
- THE DESIGN-BUILDER SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY, WHICH INCLUDES WORKING WITH AND HANDLING CONTAMINATED SOILS PRESENT AT THE SITE. THE DESIGN-BUILDER SHALL PROVIDE TEMPORARY FENCING AND/OR BARRIERS AROUND ALL OPEN EXCAVATED AREAS, AND CONDUCT ALL WORK IN ACCORDANCE WITH OSHA STANDARDS AND REQUIREMENTS OF THE OWNER.
- THE DESIGN-BUILDER SHALL MAKE ALL NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN ALL NECESSARY CONSTRUCTION PERMITS, PAY ALL FEES AND POST ALL BONDS ASSOCIATED WITH THE SAME, AND COORDINATE WITH NBC AND THEIR DESIGNATED REPRESENTATIVES AS REQUIRED.
- DESIGN-BUILDER SHALL PROVIDE EMERGENCY ACCESS TO POLICE AND FIRE DEPARTMENTS AT ALL TIMES.
- IF ANY DEVIATION OR ALTERATION OF THE WORK PROPOSED ON THESE DRAWINGS IS REQUIRED, THE DESIGN-BUILDER IS TO IMMEDIATELY CONTACT AND COORDINATE WITH NBC AND THEIR DESIGNATED REPRESENTATIVES.
- ANY AREA OUTSIDE OF THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO COST TO THE OWNER.
- ALL LINES ARE PERPENDICULAR OR PARALLEL TO THE LINES FROM WHICH THEY ARE MEASURED UNLESS OTHERWISE INDICATED.
- ALL EXISTING CONDITIONS SHOWN SHALL BE CONSIDERED APPROXIMATE AND ARE BASED ON THE BEST INFORMATION AVAILABLE. THE DESIGN-BUILDER SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE DESIGN-BUILDER SHALL NOTIFY NBC AND THEIR DESIGNATED REPRESENTATIVES PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK WHICH WOULD BE AFFECTED.
- ALL ROADWAY WORK SHALL CONFORM TO THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION (RIDOT) REQUIREMENTS AND RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 2004 EDITION OR LATEST REVISION.
- PITCH EVENLY BETWEEN SPOT GRADES.
- PAVEMENT DEMOLITION SHALL BE SAW CUT AND DISPOSED OF PROPERLY.

**EROSION AND SEDIMENTATION CONTROL NOTES**

- THE DESIGN-BUILDER AND RELEVANT SUBCONTRACTORS SHALL READ AND UNDERSTAND THE RIDPES GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY (GENERAL PERMIT) AND THE SITE SPECIFIC SOIL EROSION AND SEDIMENT CONTROL PLAN (SESC) PREPARED FOR THE PROJECT. ALL EROSION CONTROL SHALL BE IN ACCORDANCE WITH THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST REVISION.
- THE DESIGN-BUILDER SHALL BE RESPONSIBLE FOR ESTABLISHING OR INSTALLING ALL TEMPORARY SEDIMENT AND EROSION CONTROLS AS SHOWN ON THESE PLANS AND SHALL MAINTAIN ALL EROSION CONTROL MEASURES AS NECESSARY DURING THE ENTIRE CONSTRUCTION PERIOD.
- DESIGN-BUILDER SHALL BE RESPONSIBLE FOR UPDATING THE SESC, PERFORMING THE REQUIRED INSPECTIONS, MAINTAINING THE SELECTED EROSION CONTROL PRACTICES, AND KEEPING AND RETAINING PROJECT RECORDS. WRITTEN AND SIGNED ASSURANCE FROM DESIGN-BUILDER, AND APPROPRIATE SUBCONTRACTORS, SHALL BE PROVIDED TO INDICATE THEY WILL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THE RIDPES GENERAL PERMIT.
- DESIGN-BUILDER SHALL PROVIDE FOR DUST CONTROL WITH WATER TRUCK ON-SITE OR OTHER APPROVED METHODS.
- EROSION CONTROL BARRIERS SHALL BE INSTALLED AS SHOWN ON THE DRAWINGS PRIOR TO COMMENCEMENT OF CONSTRUCTION OPERATIONS IN EACH PHASE OF WORK.
- REQUIRED SEDIMENTATION CONTROL FACILITIES MUST BE PROPERLY ESTABLISHED, CLEARLY VISIBLE AND IN OPERATION PRIOR TO INITIATING ANY LAND CLEARING ACTIVITY AND/OR OTHER CONSTRUCTION RELATED WORK INCLUDING DEMOLITION, SUCH FACILITIES SHALL REPRESENT THE LIMIT OF WORK. WORKERS SHALL BE INFORMED THAT NO CONSTRUCTION ACTIVITY IS TO OCCUR BEYOND THE LIMIT OF WORK AT ANY TIME THROUGHOUT THE CONSTRUCTION PERIOD.
- THE DESIGN-BUILDER SHALL MAINTAIN SURFACE DRAINAGE DURING CONSTRUCTION. STORMWATER SHALL BE CONTROLLED AWAY FROM WORK SITES WHILE PREVENTING AREAS OF EROSION.
- ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 14 DAYS UPON COMPLETION OF WORK IN THAT AREA.
- NEWLY VEGETATED AREAS SHALL BE MAINTAINED REGULARLY TO ENSURE STABLE VEGETATED SURFACES.
- ANY ACCUMULATION OF PONDING WATER IN AREAS WITHIN THE LIMITS OF DISTURBANCE, OTHER THAN DESIGNATED AREAS, SHALL BE REMOVED AND POSITIVE DRAINAGE SHALL BE PROVIDED TO PREVENT FUTURE PONDING.
- ANY DEWATERING WASTE WATERS PUMPED FROM EXCAVATIONS SHALL BE CONVEYED BY HOSE TO AN UPLAND AREA AND DISCHARGED INTO HAY BALE ENCLOSURES OR SEDIMENTATION BAGS AS REQUIRED. DISCHARGE OF CONSTRUCTION DEWATERING SHALL BE IN ACCORDANCE WITH STIPULATIONS OF CRMC ASSENT.
- CONSTRUCTION SITE WASTE MATERIALS SHALL BE PROPERLY CONTAINED ON-SITE AND DISPOSED OFF SITE IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND STATE REGULATIONS.
- ANTI-TRACKING PADS SHALL BE PROVIDED AT ALL POINTS OF EGRESS OR INGRESS AND SHALL BE MAINTAINED TO LIMIT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADS AND INTO THE REST OF THE SITE. CONSTRUCTION ACCESS SHALL BE COORDINATED WITH THE OWNER.
- SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED ON A WEEKLY BASIS AND AFTER EACH STORM EVENT OF 0.25 INCH OR GREATER DURING CONSTRUCTION TO ENSURE THAT CHANNELS, DITCHES AND PIPES ARE CLEAR OF DEBRIS AND THAT THE EROSION CONTROL BARRIERS ARE INTACT. IDENTIFIED DEFICIENCIES SHALL BE CORRECTED IMMEDIATELY.
- THE DESIGN-BUILDER SHALL CLEAN AND MAINTAIN EROSION CONTROL BARRIER WHEN SEDIMENT ACCUMULATES TO ONE HALF THE HEIGHT OF THE HAYBALES OR ONE THIRD THE HEIGHT OF SILT FENCE. MATERIAL COLLECTED FROM THE SILTATION BARRIERS SHALL BE REMOVED AS NECESSARY AND DISPOSED IN AN UPLAND AREA.
- THE DESIGN-BUILDER SHALL REMOVE SEDIMENT AND DEBRIS FROM ALL CATCH BASINS, MANHOLES, AND THE DRAINAGE SYSTEM ON A ROUTINE BASIS, IMMEDIATELY FOLLOWING SITE STABILIZATION, AND PRIOR TO PROJECT COMPLETION AND ACCEPTANCE.
- CATCH BASINS AND STORM DRAIN INLETS SHALL BE PROTECTED WITH INLET PROTECTION.
- THE DESIGN-BUILDER SHALL NOT REMOVE ANY HAY BALES, SILT FENCE OR OTHER EROSION CONTROLS UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED.
- RIP-RAP OR OTHER ENERGY DISSIPATORS SHALL BE USED WHERE NECESSARY TO PREVENT SCOUR.
- WHERE EROSION CONTROLS ARE NEEDED ON IMPERVIOUS SURFACES, THE DESIGN BUILDER SHALL PROVIDE SAND BAG EROSION CONTROL BARRIER.
- INSTALLATION OF THE EROSION CONTROL BARRIERS AS ILLUSTRATED IS INTENDED TO REPRESENT THE MINIMUM SEDIMENTATION CONTROL FACILITIES NECESSARY TO MEET ANTICIPATED SITE CONDITIONS. ADDITIONAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED AS CONDITIONS WARRANT OR AS DIRECTED BY THE OWNER.
- THE DESIGN-BUILDER SHALL MAINTAIN A SUFFICIENT RESERVE OF A MINIMUM OF 10% OF VARIOUS EROSION CONTROL MATERIALS ON-SITE AT ALL TIMES FOR EMERGENCY PURPOSES.
- TEMPORARY DIVERSION (TD) MAY CONSIST OF A DITCH OR SWALE, OR MAY BE ACHIEVED USING WOOD CHIPS, COIR LOGS, OR SIMILAR MATERIALS.
- TEMPORARY SEDIMENT TRAPS (TST) AND TEMPORARY SWALES (TSW) SHOWN ON THE DRAWINGS HAVE BEEN SIZED IN ACCORDANCE WITH THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL MANUAL. ANY REVISIONS TO THESE TEMPORARY CONTROLS PROPOSED BY DESIGN SHALL MEET THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL MANUAL.
- THE CLOSED DRAINAGE SYSTEM AND ASSOCIATED STRUCTURES SHALL BE CLEANED AND FLUSHED BY DESIGN-BUILDER AT COMPLETION OF CONSTRUCTION. DESIGN-BUILDER SHALL BE RESPONSIBLE FOR INSPECTION AND MAINTENANCE OF DRAINAGE SYSTEM UNTIL ACCEPTANCE OF THE SYSTEM BY THE OWNER. FOLLOWING ACCEPTANCE OF THE PROPOSED DRAINAGE SYSTEM PROPOSED FOR THIS SITE, THE OWNER OF THE SITE SHALL BE RESPONSIBLE FOR THE LONG-TERM INSPECTION AND MAINTENANCE OF THE DRAINAGE SYSTEM.
- EROSION AND SEDIMENT CONTROLS SHALL BE REMOVED ONCE ALL UPSTREAM AREAS ARE STABILIZED.

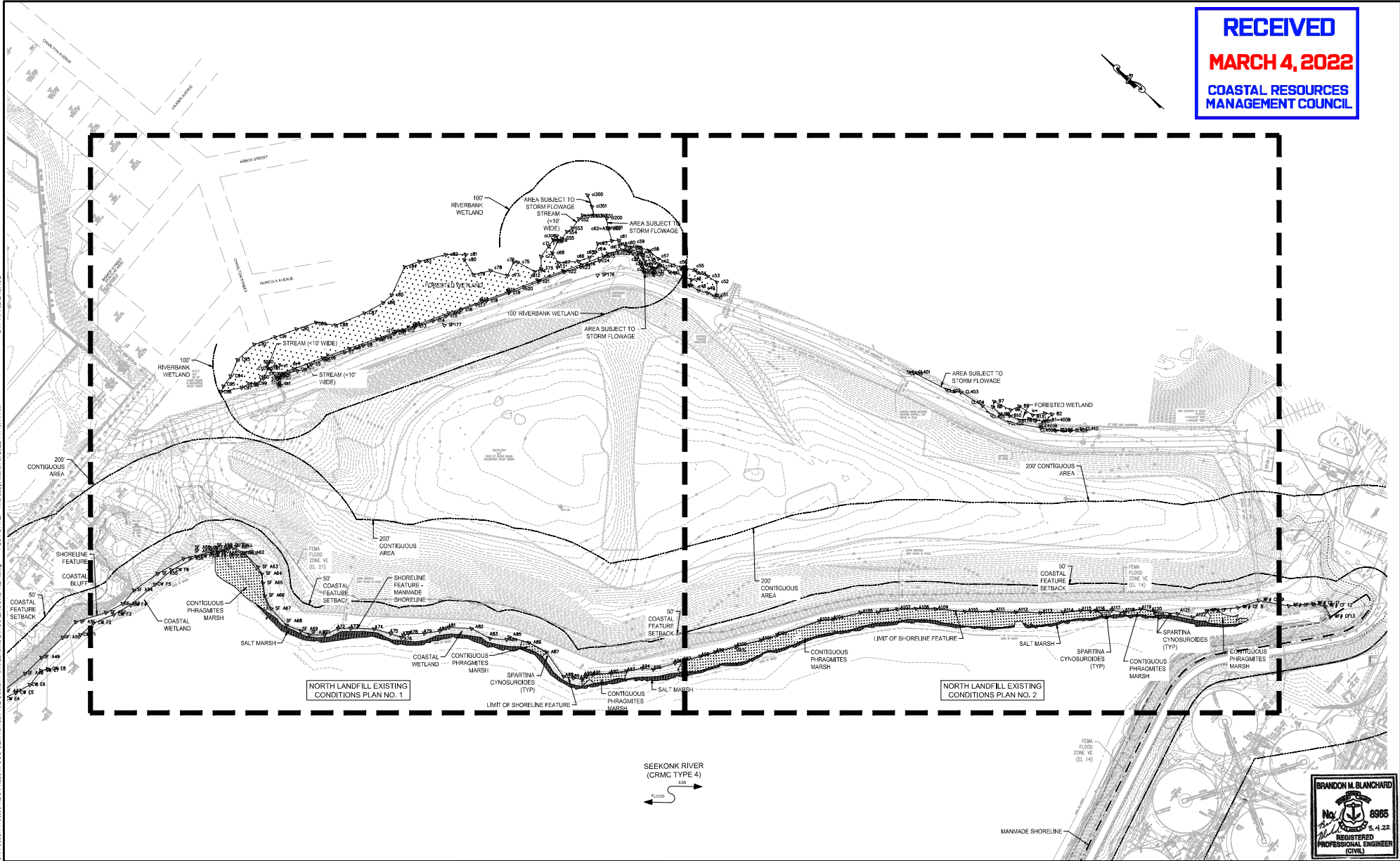
**UTILITY NOTES**

- UNDERGROUND UTILITIES WERE COMPILED FROM AVAILABLE PLANS FROM OWNER, AND ARE APPROXIMATE AND ASSUMED. BEFORE COMMENCING SITE WORK IN ANY AREA, CONTACT "DIG SAFE" AT 1-800-DIG-SAFE AND ALL UTILITY COMPANIES NOT COVERED BY "DIG SAFE" TO ACCURATELY LOCATE UNDERGROUND UTILITIES. ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES SHALL BE DESIGN BUILDER'S RESPONSIBILITY. COSTS OF SUCH DAMAGE SHALL BE DESIGN BUILDER'S RESPONSIBILITY. NO EXCAVATION SHALL BE DONE UNTIL UTILITY COMPANIES ARE PROPERLY NOTIFIED.
  - ALL EXISTING AND PROPOSED UTILITY COVERS, GRATES, ETC. SHALL BE ADJUSTED TO BE FLUSH WITH THE SURROUNDING SURFACE OR PAVEMENT FINISH GRADE. RIM ELEVATIONS OF STRUCTURES AND MANHOLES ARE APPROXIMATE. FINAL ELEVATIONS ARE TO BE SET FLUSH AND CONSISTENT WITH THE PROPOSED FINAL GRADES.
  - WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY DESIGN BUILDER AND THE INFORMATION FURNISHED TO OWNER FOR RESOLUTION.
  - THE DESIGN BUILDER SHALL PROTECT ALL UNDERGROUND DRAINAGE, SEWER, AND UTILITY FACILITIES FROM EXCESSIVE VEHICULAR LOADS DURING CONSTRUCTION. ANY DAMAGE TO THESE FACILITIES RESULTING FROM CONSTRUCTION LOADS SHALL BE RESTORED TO ORIGINAL CONDITION AT NO COST TO THE OWNER.
  - DURING CONSTRUCTION OPERATIONS, THE DESIGN BUILDER SHALL PROTECT EXISTING UTILITIES THAT ARE IDENTIFIED ON THESE CONTRACT DRAWINGS BY PROVIDING TEMPORARY SUPPORTS OR SHEETING AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER.
  - EXCAVATION REQUIRED WITHIN THE PROXIMITY OF EXISTING UTILITY LINES SHALL BE DONE BY HAND OR OTHER NON-DESTRUCTIVE MEANS AS APPROVED BY OWNER. DESIGN BUILDER SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT NO COST TO THE OWNER.
  - ENSURE ALL EXISTING (TO REMAIN), AND PROPOSED MANHOLE COVERS PROPERLY IDENTIFY UTILITY SERVICED. FOR SEWER MANHOLES RAISED TO GRADE, REMOVE AND RESET EXISTING COVER UNLESS DIRECTED OTHERWISE.
- DURING CONSTRUCTION (DESIGN BUILDER'S RESPONSIBILITY)**
- THE DESIGN BUILDER SHALL REMOVE SEDIMENT AND DEBRIS FROM ALL CATCH BASINS, MANHOLES, AND THE DRAINAGE SYSTEM ON A ROUTINE BASIS, IMMEDIATELY FOLLOWING SITE STABILIZATION, AND PRIOR TO PROJECT COMPLETION AND ACCEPTANCE.
  - THE CLOSED DRAINAGE SYSTEM AND ASSOCIATED STRUCTURES SHALL BE CLEANED AND FLUSHED BY THE DESIGN BUILDER AT THE COMPLETION OF CONSTRUCTION, AND THE DESIGN BUILDER SHALL BE RESPONSIBLE FOR INSPECTION AND MAINTENANCE OF THE DRAINAGE SYSTEM UNTIL ACCEPTANCE OF THE SYSTEM BY OWNER. FOLLOWING ACCEPTANCE OF THE PROPOSED DRAINAGE SYSTEM, OWNER SHALL BE RESPONSIBLE FOR THE LONG-TERM INSPECTION AND MAINTENANCE OF THE DRAINAGE SYSTEM.
  - ANY ACCUMULATION OF PONDING WATER IN AREAS WITHIN THE LIMITS OF DISTURBANCE, OTHER THAN DESIGNATED AREAS, SHALL BE REMOVED ACCORDINGLY AND PREVENTED IN THE FUTURE.
- POST CONSTRUCTION**
- TRASH, LITTER, SEDIMENT AND OTHER DEBRIS SHALL BE REMOVED FROM ANY STORMWATER MANAGEMENT SYSTEM FACILITY (INCLUDING BUT NOT LIMITED TO CATCH BASINS, MANHOLES, INLET, OUTLET AND DIVERSION STRUCTURES, AND STORMWATER BEST MANAGEMENT PRACTICES (BMPs)) A MINIMUM OF TWO TIMES PER YEAR, PREFERABLY IN THE SPRING AND FALL.



|              |   |                         |   |                   |   |           |
|--------------|---|-------------------------|---|-------------------|---|-----------|
| SCALE        | WARNING   | DESIGNED <u>CLMS/DW</u> | PERMIT SUBMISSION - MARCH 4, 2022   |                   | NARRAGANSETT BAY COMMISSION<br>PHASE III COMBINED SEWER<br>OVERFLOW PROGRAM<br>NBC CONTRACT NO 308.01C<br>CIVIL<br>PHASE III COMBINED SEWER OVERFLOW PROGRAM<br>PAWTUCKET TUNNEL - CONSTRUCTION MATERIAL REUSE - BUCKLIN POINT<br>NOTES | SHEET     |
| NOT TO SCALE | IF THIS BAR DOES NOT MEASURE THEN DRAWING IS NOT TO SCALE | DRAWN <u>RRAL</u>       | NOT FOR CONSTRUCTION<br>This document is an interim document and not suitable for construction. As an interim document, it may contain information that is potentially inaccurate or incomplete and is not to be relied upon without the express written consent of the preparer. |                   |   |           |
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**RECEIVED**  
**MARCH 4, 2022**  
**COASTAL RESOURCES**  
**MANAGEMENT COUNCIL**



DWG FILE: Z:\JOB814\Job814\06.03 NBC Phase III CSO CERCA\Task 102\Backup Point Landfill\DWG\EXISTCONDKEY.dwg PLOT DATE: Thursday, March 3, 2022 11:48:11 AM BY: APRIL LADAGE

| REV | DATE | BY | DESCRIPTION |
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SCALE  
1"=60'

WARNING  
  
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DESIGNED: C.J.M./D.W.  
 DRAWN: R.B.L.  
 CHECKED: B.B.

PERMIT SUBMISSION - MARCH 4, 2022

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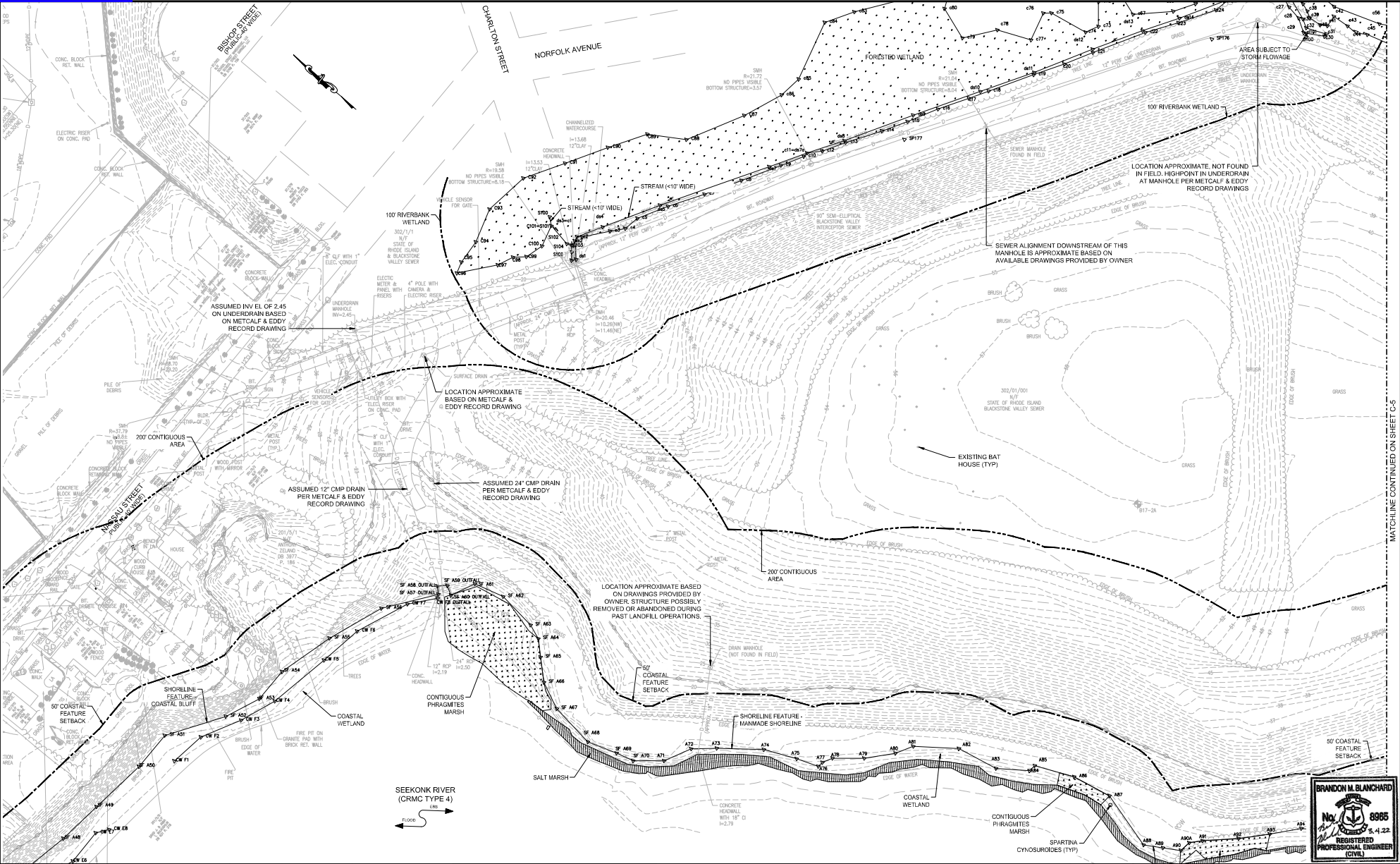
NARRAGANSETT BAY COMMISSION  
 PHASE III COMBINED SEWER OVERFLOW PROGRAM

NBC CONTRACT NO 308.01C  
 CIVIL  
 PHASE III COMBINED SEWER OVERFLOW PROGRAM  
 PAINTUCKET TUNNEL - CONSTRUCTION MATERIAL REUSE - BUCKLIN POINT  
 NORTH LANDFILL OVERALL EXISTING CONDITIONS KEY PLAN

SHEET  
C-3  
195130227



DWG FILE: Z:\JOBS\14\_0001\NBC Phase III CSC CERCA\Task 1\BC-Blacklin Point Landfill\DWG\EXCONC01.dwg  
 PLOT DATE: Thursday, March 3, 2022 11:40:37 AM  
 BY: APRIL LADAGE



MATCHLINE CONTINUED ON SHEET C-5

| REV | DATE | BY | DESCRIPTION |
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SCALE: 1"=40'

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DESIGNED: CLM/SJW  
 DRAWN: RBAL  
 CHECKED: BB

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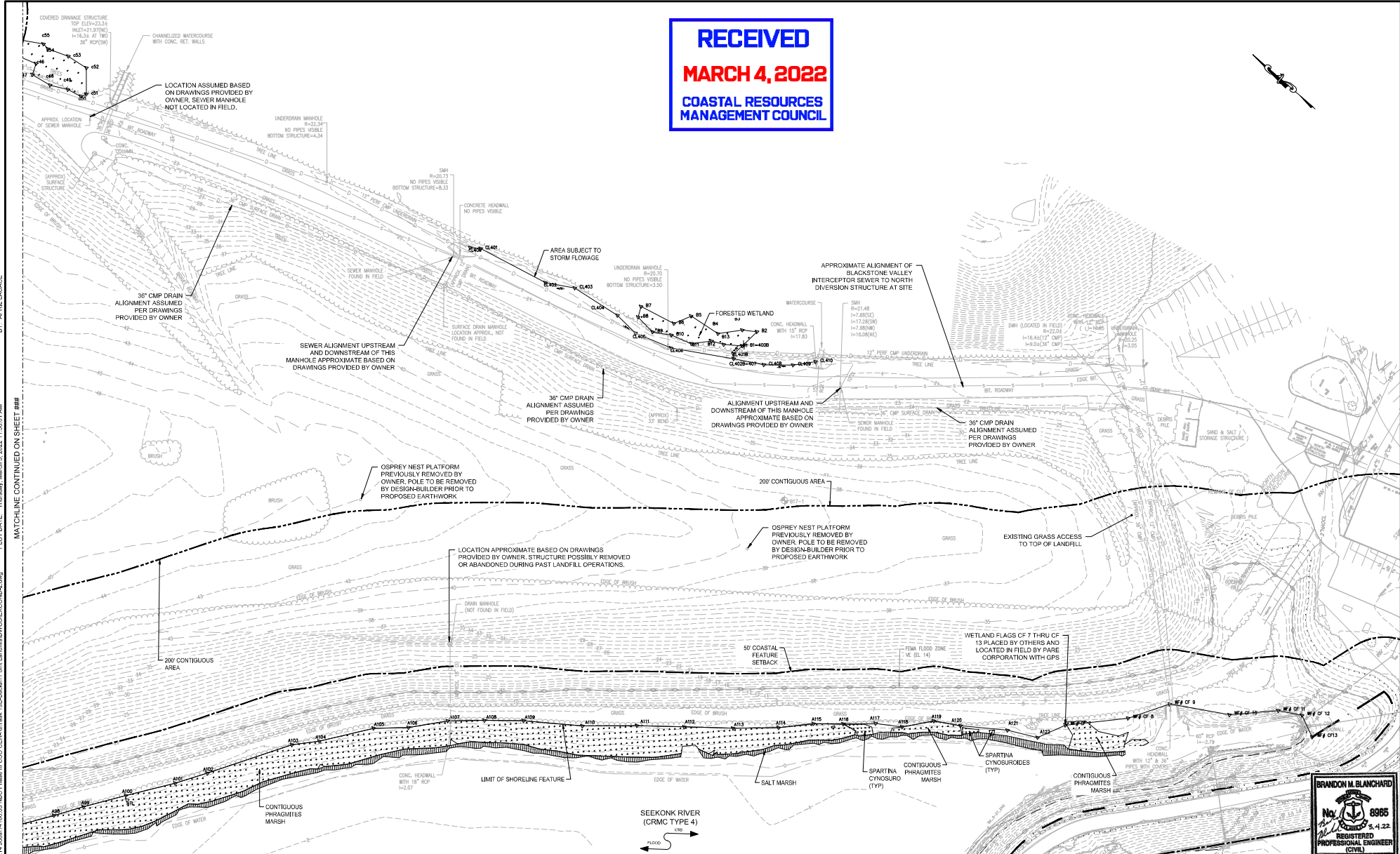
NARRAGANSETT BAY COMMISSION  
 PHASE III COMBINED SEWER OVERFLOW PROGRAM

NBC CONTRACT NO 308.01C  
 CIVIL  
 PHASE III COMBINED SEWER OVERFLOW PROGRAM  
 PAWBUCKET TUNNEL - CONSTRUCTION MATERIAL REUSE - BUCKLIN POINT  
 NORTH LANDFILL EXISTING CONDITIONS PLAN NO. 1



SHEET C-4  
 195130227

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DWG FILE: Z:\JOBS\14\160\03\_NBC Phase III CSO CERAT\Task 195-Bucklin Point Landfill\DWG\SEWCON2.dwg  
 PLOT DATE: Thursday, March 3, 2022 11:50:01 AM  
 MATCHLINE CONTINUED ON SHEET ##

| REV | DATE | BY | DESCRIPTION |
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SCALE  
1"=40'

WARNING  
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DESIGNED: C.J.M./D.W.  
 DRAWN: R.B./A.L.  
 CHECKED: B.B.

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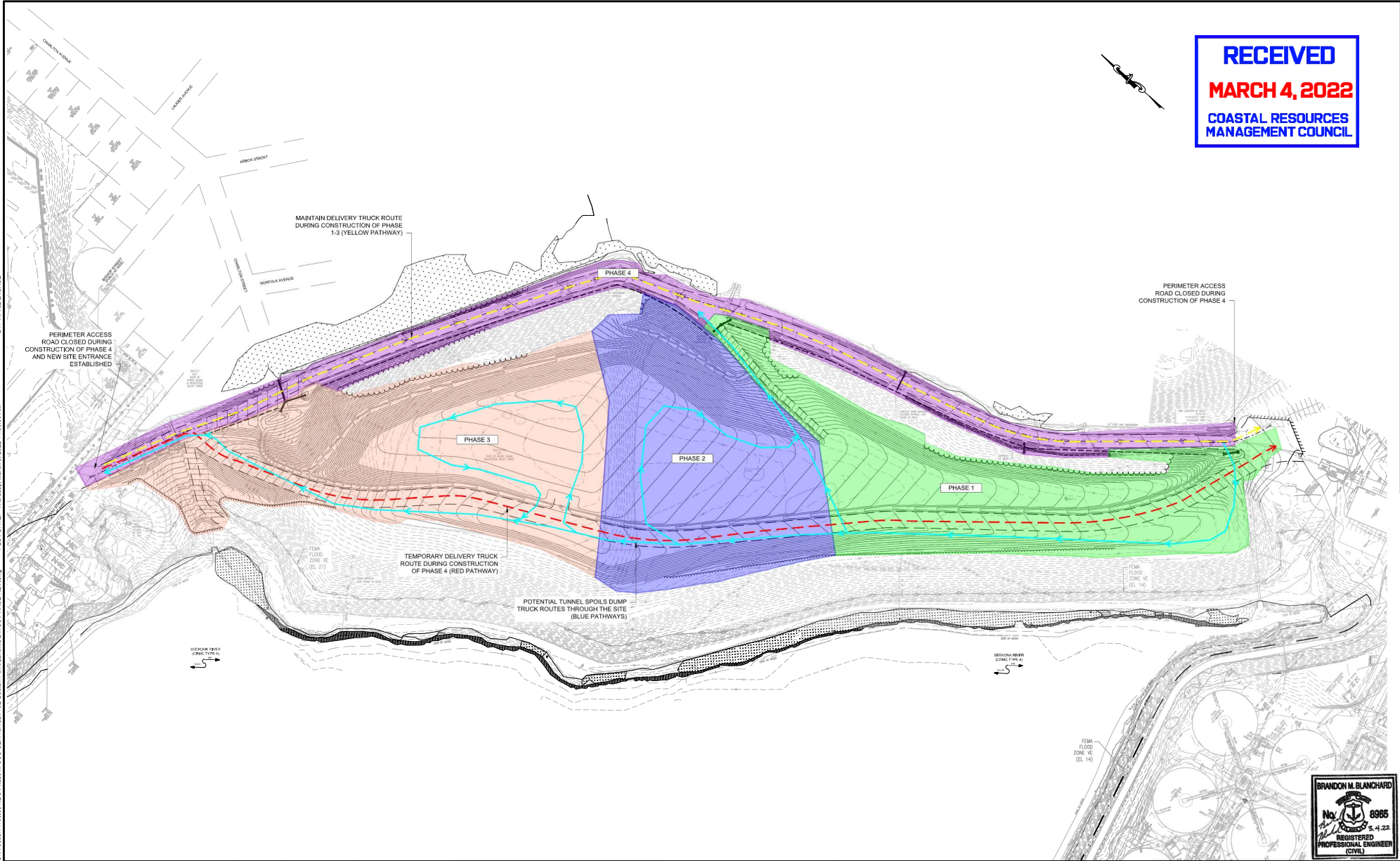
NARRAGANSETT BAY COMMISSION  
 PHASE III COMBINED SEWER  
 OVERFLOW PROGRAM

NBC CONTRACT NO 308.01C  
 CIVIL  
 PHASE III COMBINED SEWER OVERFLOW PROGRAM  
 PAWBUCKET TUNNEL - CONSTRUCTION MATERIAL REUSE - BUCKLIN POINT  
 NORTH LANDFILL EXISTING CONDITIONS PLAN NO. 2

SHEET  
C-5  
195130227



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**MANAGEMENT COUNCIL**



DWG FILE: Z:\JOB8514\Job8514\06.03 NBC Phase III CSC CERCA\Task 1\Bucklin Point Landfill\DWG\CSPHASE4KEY.dwg  
 PLOT DATE: Thursday, March 3, 2022 11:50:30 AM  
 BY: APRIL LADAGE

| REV | DATE | BY | DESCRIPTION |
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SCALE  
 1"=80'

WARNING  
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 DRAWN: RBAL  
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NARRAGANSETT BAY COMMISSION  
 PHASE III COMBINED SEWER OVERFLOW PROGRAM  
 Stantec

NBC CONTRACT NO 308.01C  
 CIVIL  
 PHASE III COMBINED SEWER OVERFLOW PROGRAM  
 PAWTUCKET TUNNEL - CONSTRUCTION MATERIAL REUSE - BUCKLIN POINT  
 NORTH LANDFILL OVERALL PHASING KEY PLAN  
 SHEET  
 C-6  
 195130227



DWG FILE: Z:\JOBS\14\_2021\14106\03\_NBC Phase III CSO CERCLT\Task 10E\Backup\Point Landfill\DWG\CSO\PHASE 1.dwg  
 PLOT DATE: Thursday, March 3, 2022 11:52:39 AM  
 BY: APRIL LADAGE

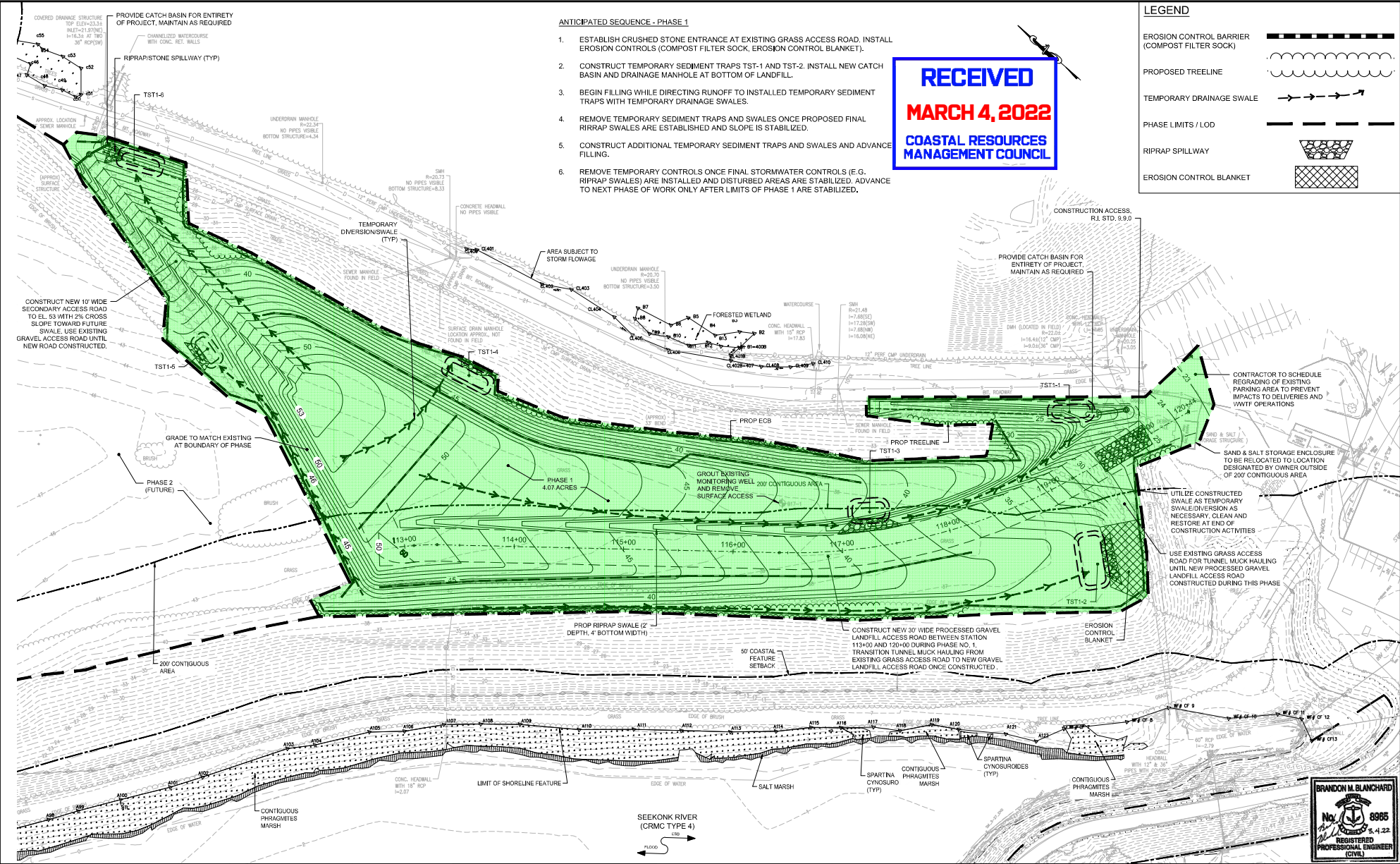
**ANTICIPATED SEQUENCE - PHASE 1**

1. ESTABLISH CRUSHED STONE ENTRANCE AT EXISTING GRASS ACCESS ROAD. INSTALL EROSION CONTROLS (COMPOST FILTER SOCK, EROSION CONTROL BLANKET).
2. CONSTRUCT TEMPORARY SEDIMENT TRAPS TST-1 AND TST-2. INSTALL NEW CATCH BASIN AND DRAINAGE MANHOLE AT BOTTOM OF LANDFILL.
3. BEGIN FILLING WHILE DIRECTING RUNOFF TO INSTALLED TEMPORARY SEDIMENT TRAPS WITH TEMPORARY DRAINAGE SWALES.
4. REMOVE TEMPORARY SEDIMENT TRAPS AND SWALES ONCE PROPOSED FINAL RIPRAP SWALES ARE ESTABLISHED AND SLOPE IS STABILIZED.
5. CONSTRUCT ADDITIONAL TEMPORARY SEDIMENT TRAPS AND SWALES AND ADVANCE FILLING.
6. REMOVE TEMPORARY CONTROLS ONCE FINAL STORMWATER CONTROLS (E.G. RIPRAP SWALES) ARE INSTALLED AND DISTURBED AREAS ARE STABILIZED. ADVANCE TO NEXT PHASE OF WORK ONLY AFTER LIMITS OF PHASE 1 ARE STABILIZED.



**LEGEND**

- EROSION CONTROL BARRIER (COMPOST FILTER SOCK)
- PROPOSED TREELINE
- TEMPORARY DRAINAGE SWALE
- PHASE LIMITS / LOD
- RIPRAP SPILLWAY
- EROSION CONTROL BLANKET



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| SCALE  | WARNING   | DESIGNED: C.J.M.S./D.W.    | PERMIT SUBMISSION - MARCH 4, 2022  |  | NARRAGANSETT BAY COMMISSION<br>PHASE III COMBINED SEWER<br>OVERFLOW PROGRAM<br>NBC CONTRACT NO 308.01C | SHEET<br>C-7<br>195130227 |
| 1"=40' | IF THIS BAR DOES NOT MEASURE THEN DRAWING IS NOT TO SCALE | DRAWN: RBAL<br>CHECKED: BB | NOT FOR CONSTRUCTION<br>This document is an interim document and not suitable for construction. As an interim document, it may contain data that is potentially inaccurate or incomplete and is not to be relied upon without the express written consent of the preparer. |  |  |                           |



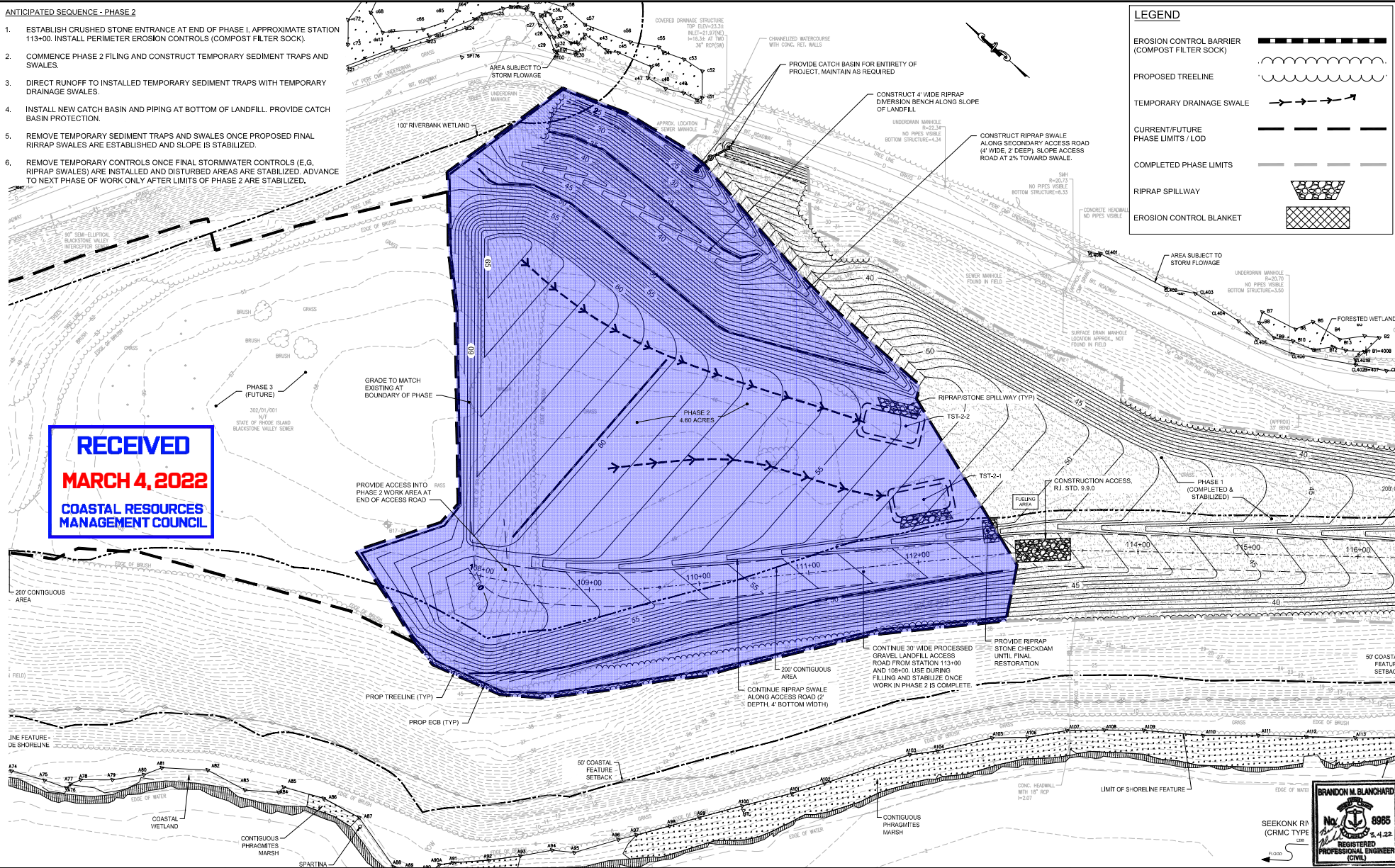


**ANTICIPATED SEQUENCE - PHASE 2**

1. ESTABLISH CRUSHED STONE ENTRANCE AT END OF PHASE I, APPROXIMATE STATION 113+00. INSTALL PERIMETER EROSION CONTROLS (COMPOST FILTER SOCK).
2. COMMENCE PHASE 2 FILING AND CONSTRUCT TEMPORARY SEDIMENT TRAPS AND SWALES.
3. DIRECT RUNOFF TO INSTALLED TEMPORARY SEDIMENT TRAPS WITH TEMPORARY DRAINAGE SWALES.
4. INSTALL NEW CATCH BASIN AND PIPING AT BOTTOM OF LANDFILL. PROVIDE CATCH BASIN PROTECTION.
5. REMOVE TEMPORARY SEDIMENT TRAPS AND SWALES ONCE PROPOSED FINAL RIPRAP SWALES ARE ESTABLISHED AND SLOPE IS STABILIZED.
6. REMOVE TEMPORARY CONTROLS ONCE FINAL STORMWATER CONTROLS (E.G. RIPRAP SWALES) ARE INSTALLED AND DISTURBED AREAS ARE STABILIZED. ADVANCE TO NEXT PHASE OF WORK ONLY AFTER LIMITS OF PHASE 2 ARE STABILIZED.

**LEGEND**

- EROSION CONTROL BARRIER (COMPOST FILTER SOCK)
- PROPOSED TREELINE
- TEMPORARY DRAINAGE SWALE
- CURRENT/FUTURE PHASE LIMITS / LOD
- COMPLETED PHASE LIMITS
- RIPRAP SPILLWAY
- EROSION CONTROL BLANKET



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 BY: APRIL LADAGE

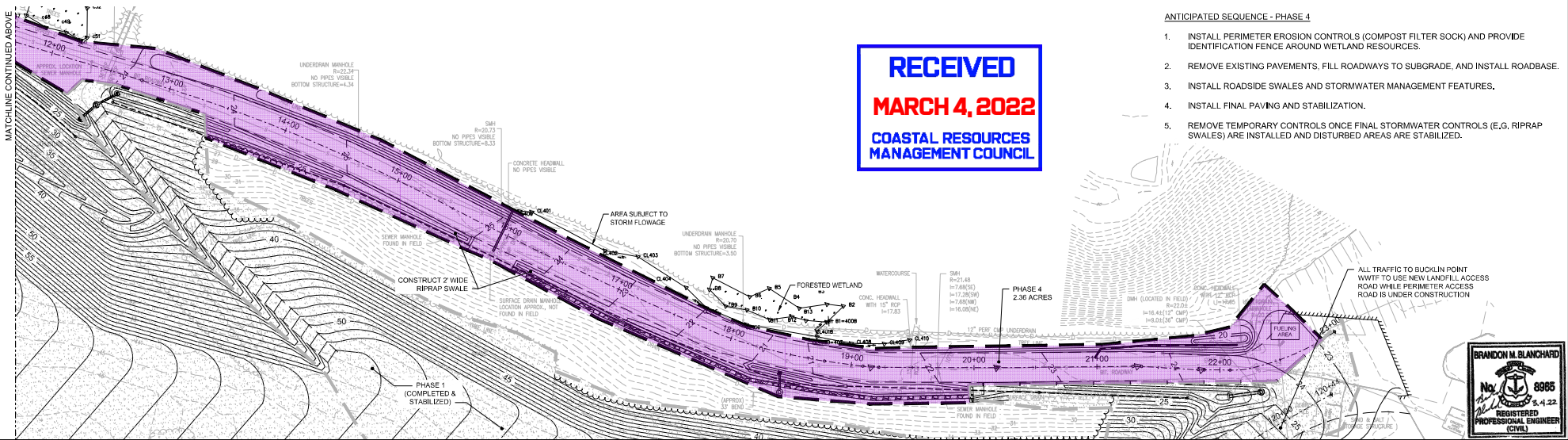
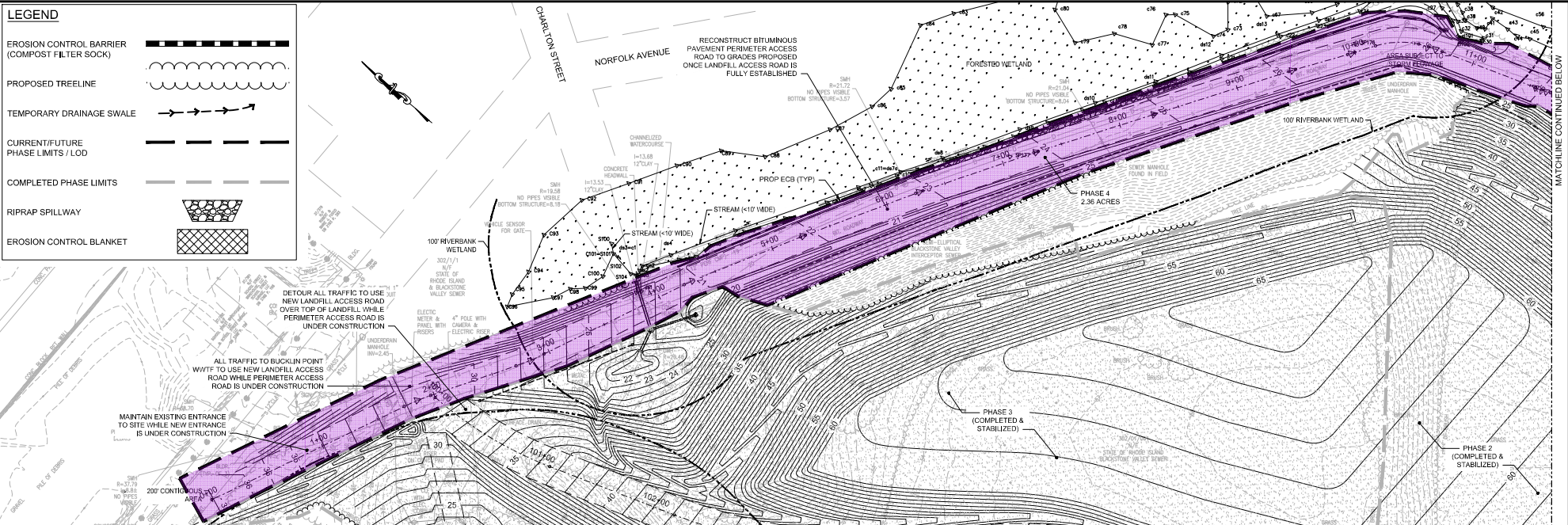
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| SCALE  |  | WARNING  |  | DESIGNED: C.J.M.S/DW |  | PERMIT SUBMISSION - MARCH 4, 2022  |  |   |  | NBC CONTRACT NO 308.01C |  | SHEET |  |
| 1"=40' |  | IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE |  | DRAWN: RBAL          |  | NOT FOR CONSTRUCTION<br>This document is an interim document and not suitable for construction. As an interim document, it may contain data that is potentially inaccurate or incomplete and is not to be relied upon without the express written consent of the preparer. |  |   |  | CIVIL                   |  | C-8   |  |
| REV    |  | DATE   |  | BY                   |  | DESCRIPTION  |  | PAINTBUCKET TUNNEL - CONSTRUCTION MATERIAL REUSE - BUCKLIN POINT<br>NORTH LANDFILL PHASING & EROSION CONTROL PLAN - PHASE NO. 2 |  | 195130227               |  |       |  |

**BRANDON M. BLANCHARD**  
 No. 6886  
 3-4-22  
 REGISTERED PROFESSIONAL ENGINEER  
 CIVIL



**LEGEND**

- EROSION CONTROL BARRIER (COMPOST FILTER SOCK)
- PROPOSED TREELINE
- TEMPORARY DRAINAGE SWALE
- CURRENT/FUTURE PHASE LIMITS / LOD
- COMPLETED PHASE LIMITS
- RIPRAP SPILLWAY
- EROSION CONTROL BLANKET



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- ANTICIPATED SEQUENCE - PHASE 4**
1. INSTALL PERIMETER EROSION CONTROLS (COMPOST FILTER SOCK) AND PROVIDE IDENTIFICATION FENCE AROUND WETLAND RESOURCES.
  2. REMOVE EXISTING PAVEMENTS, FILL ROADWAYS TO SUBGRADE, AND INSTALL ROADBASE.
  3. INSTALL ROADSIDE SWALES AND STORMWATER MANAGEMENT FEATURES.
  4. INSTALL FINAL PAVING AND STABILIZATION.
  5. REMOVE TEMPORARY CONTROLS ONCE FINAL STORMWATER CONTROLS (E.G. RIPRAP SWALES) ARE INSTALLED AND DISTURBED AREAS ARE STABILIZED.

DWG FILE: Z:\JOBS\14\_2021\14100.03\_NBC Phase III CSO CERCLF\Task 1\BC-Bucklin Point Landfill\DWGS\PHASE 4.dwg  
 PLOT DATE: Thursday, March 3, 2022 11:56:19 AM  
 BY: APRIL LADAGE

| REV | DATE | BY | DESCRIPTION |
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SCALE: 1"=40'

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 DRAWN: R.B./A.L.  
 CHECKED: B.B.

PERMIT SUBMISSION - MARCH 4, 2022

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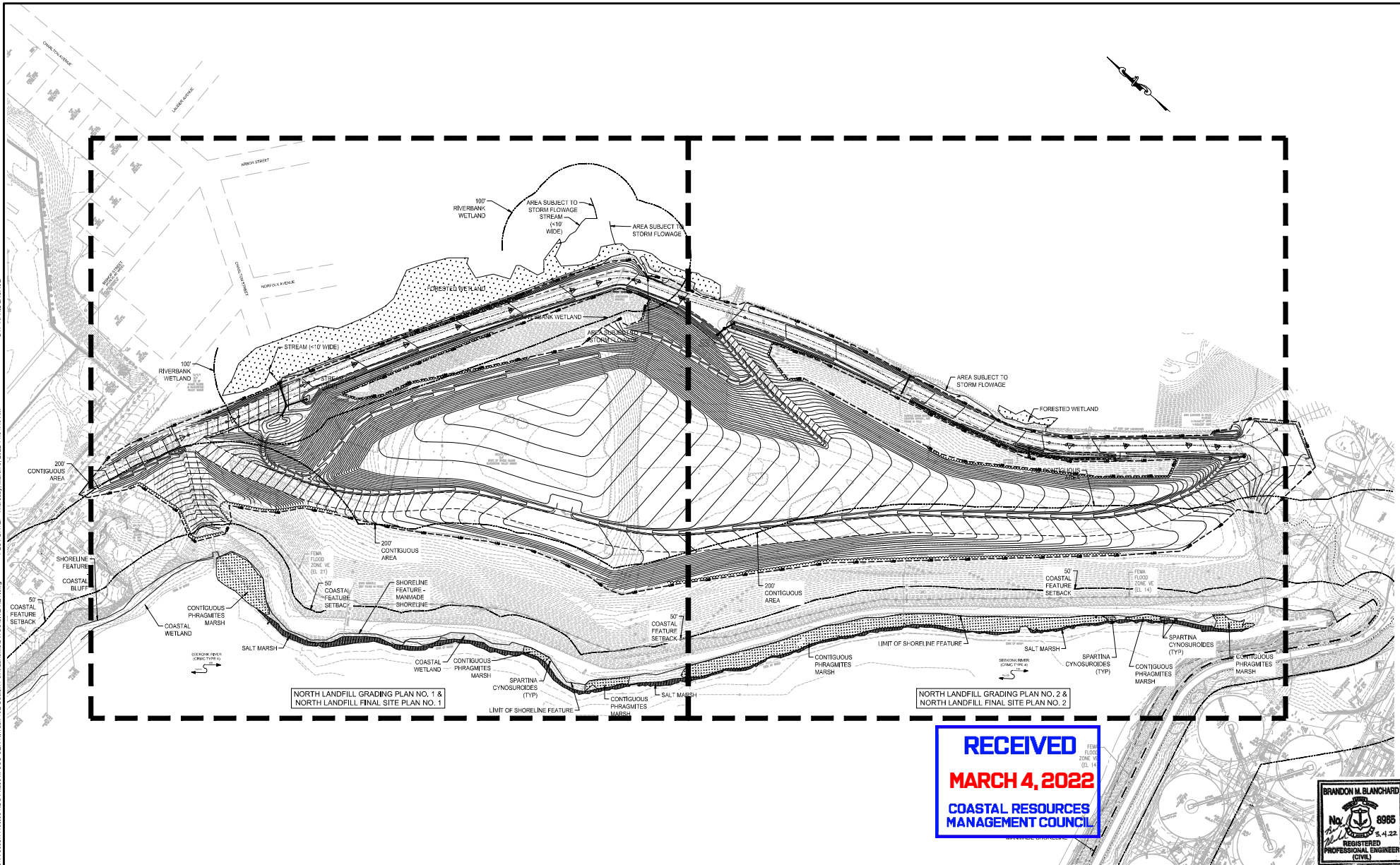
NARRAGANSETT BAY COMMISSION  
 PHASE III COMBINED SEWER  
 OVERFLOW PROGRAM

NBC CONTRACT NO 308.01C  
 CIVIL  
 PHASE III COMBINED SEWER OVERFLOW PROGRAM  
 PAINTBUCKET TUNNEL - CONSTRUCTION MATERIAL REUSE - BUCKLIN POINT  
 NORTH LANDFILL PHASING & EROSION CONTROL PLAN - PHASE NO. 4

REGISTERED PROFESSIONAL ENGINEER  
 CIVIL  
 No. 8986  
 5.4.22

SHEET: C-10  
 195130227

DWG FILE: Z:\JOB814\JOB814\06\03 NBC Phase III CSC CERCAI Trunk (185-Bucklin Point Landfill)\DWG\SITE4KEY.dwg PLOT DATE: Thursday, March 2, 2022 11:56:40 AM BY: APRIL LADAGE



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SCALE: 1"=80'  
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DESIGNED: C.J.M./D.W.  
 DRAWN: R.B.J.  
 CHECKED: B.B.

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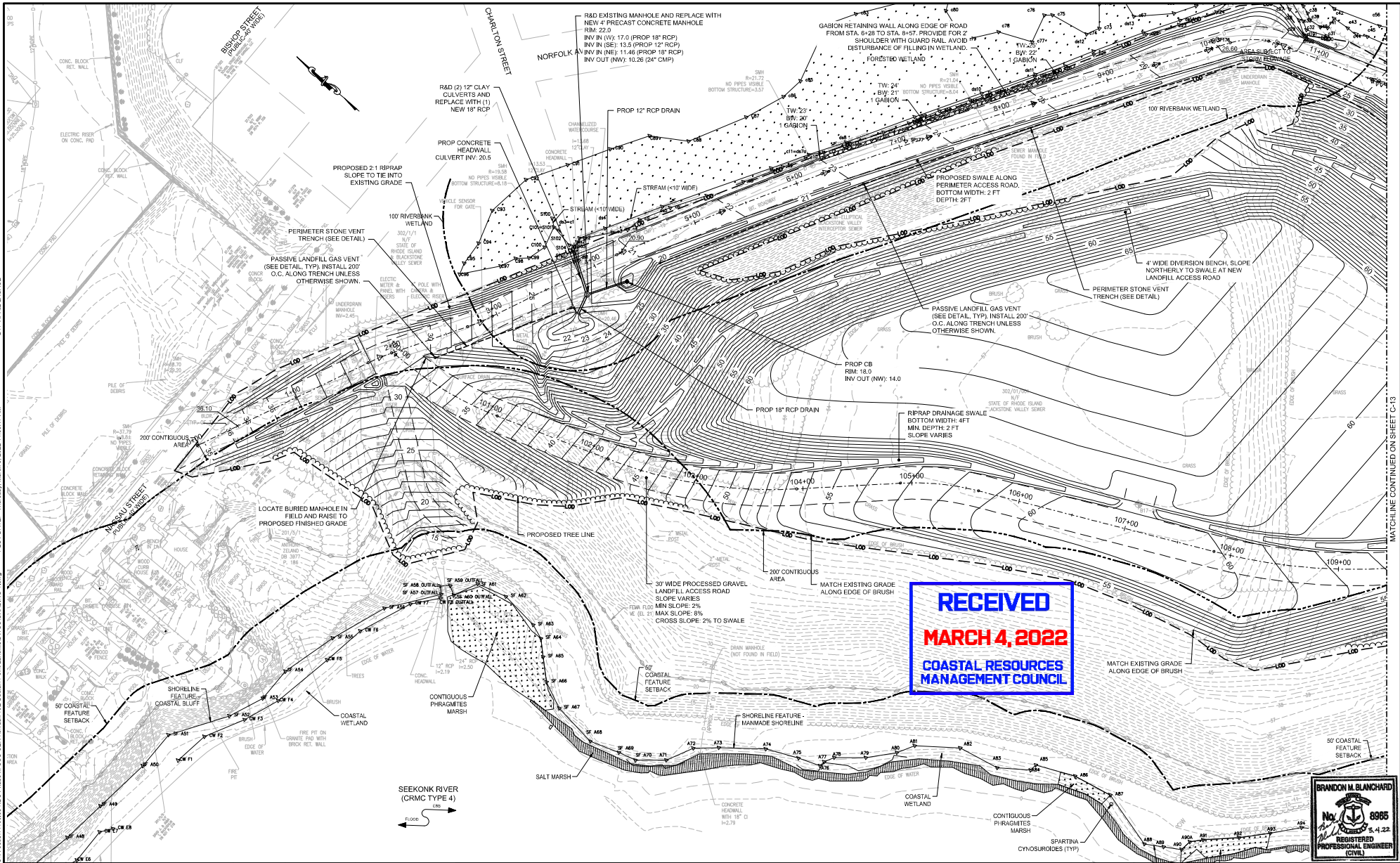


NARRAGANSETT BAY COMMISSION  
 PHASE III COMBINED SEWER  
 OVERFLOW PROGRAM

NBC CONTRACT NO. 308.01C  
 CIVIL  
 PHASE III COMBINED SEWER OVERFLOW PROGRAM  
 PAWBUCKET TUNNEL - CONSTRUCTION MATERIAL REUSE - BUCKLIN POINT  
 NORTH LANDFILL PROPOSED CONDITIONS KEY PLAN

SHEET: C-11  
 195130227

DWG FILE: Z:\JOBS\14\2021\14100.03\NBC Phase III CSC CERCL\Task 192-Bucklin Point Landfill\DWGS\GRADING-CR-192g PLOT DATE: Thursday, March 3, 2022 11:56:17 AM BY: APRIL LAVAGE



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**BRANDON M. BLANCHARD**  
 No. 6886  
 3.4.22  
 REGISTERED PROFESSIONAL ENGINEER  
 (CIVIL)

| REV | DATE | BY | DESCRIPTION |
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| SCALE  | WARNING  |
| 1"=40' | IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE |

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SEEKONK RIVER (CRMC TYPE 4)  
 FLOOD

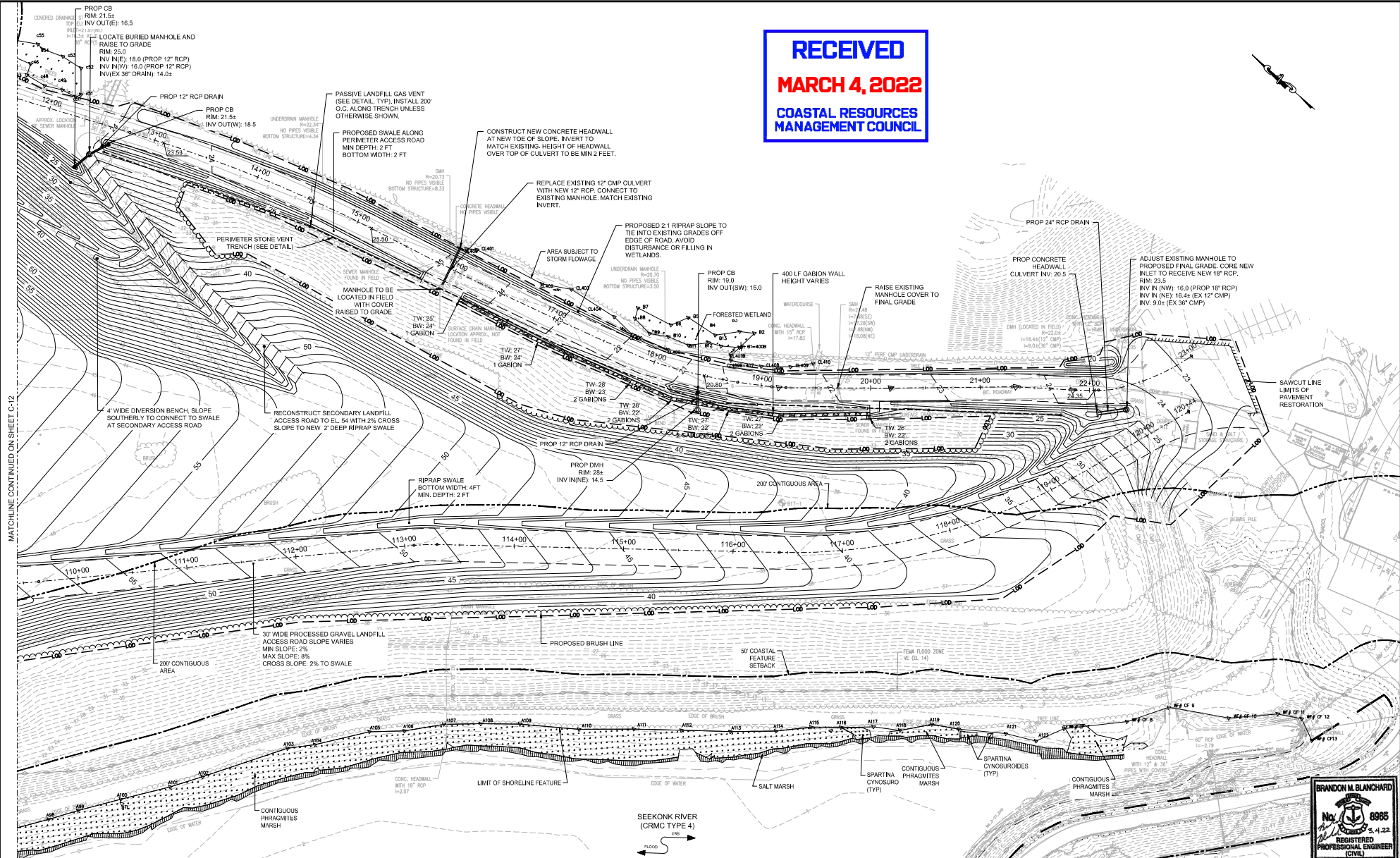


NARRAGANSETT BAY COMMISSION  
 PHASE III COMBINED SEWER OVERFLOW PROGRAM  
 NBC CONTRACT NO 308.01C  
 CIVIL  
 PHASE III COMBINED SEWER OVERFLOW PROGRAM  
 PAWTUCKET TUNNEL - CONSTRUCTION MATERIAL REUSE - BUCKLIN POINT  
 NORTH LANDFILL GRADING PLAN NO. 1

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| SHEET     | C-12 |
| 195130227 |      |

MATCHLINE CONTINUED ON SHEET C-13

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DWG FILE: Z:\JOBS\14\_2021\14100.03\_NBC Phase III CSO CERAT Task 192-Bucklin Point Landfill\DWG\GRADING\G-1999  
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

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| SCALE  | WARNING  |
| 1"=40' | IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE |

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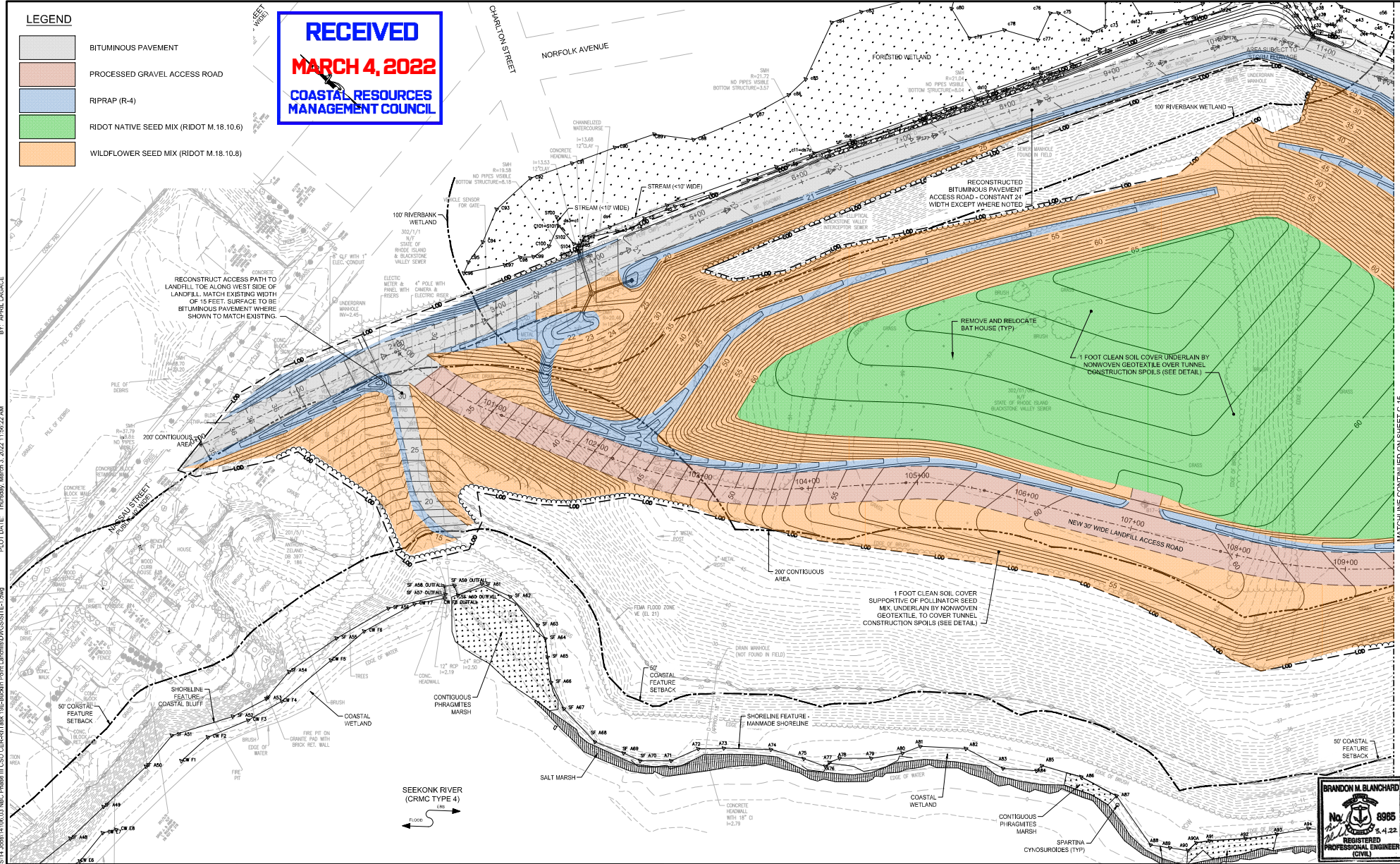
NARRAGANSETT BAY COMMISSION  
 PHASE III COMBINED SEWER  
 OVERFLOW PROGRAM

NBC CONTRACT NO 308.01C  
 CIVIL  
 PHASE III COMBINED SEWER OVERFLOW PROGRAM  
 PAWTUCKET TUNNEL - CONSTRUCTION MATERIAL REUSE - BUCKLIN POINT  
 NORTH LANDFILL GRADING PLAN NO. 2

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|  | SHEET<br><b>C-13</b><br>195130227 |
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- LEGEND**
-  BITUMINOUS PAVEMENT
  -  PROCESSED GRAVEL ACCESS ROAD
  -  RIPRAP (R-4)
  -  RIDOT NATIVE SEED MIX (RIDOT M.18.10.6)
  -  WILDFLOWER SEED MIX (RIDOT M.18.10.8)

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PLOT DATE: Thursday, March 3, 2022 11:58:22 AM  
 BY: APRIL LADAGE  
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MATCHLINE CONTINUED ON SHEET C-15

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NARRAGANSETT BAY COMMISSION  
 PHASE III COMBINED SEWER  
 OVERFLOW PROGRAM

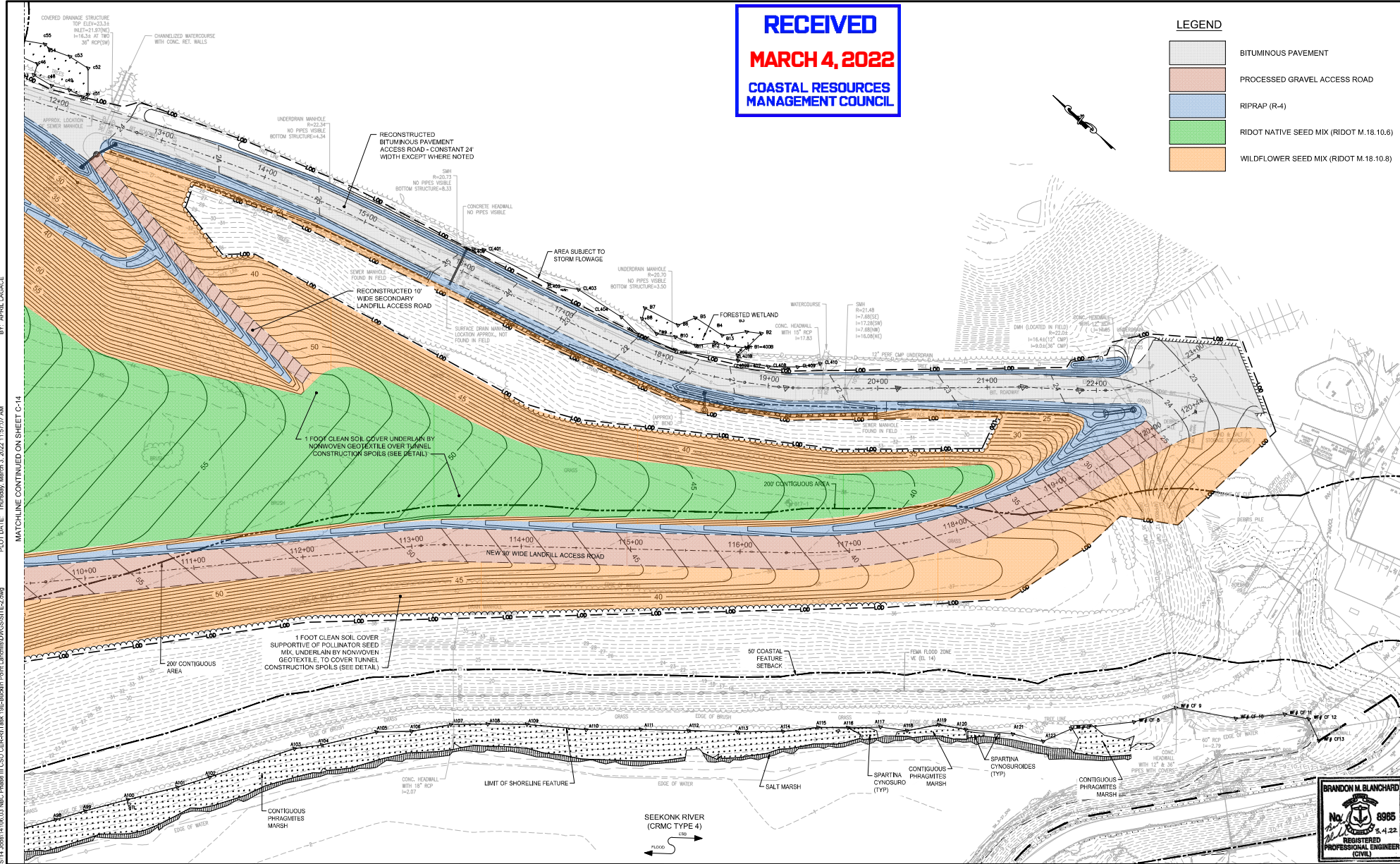
NBC CONTRACT NO 308.01C  
 CIVIL  
 PHASE III COMBINED SEWER OVERFLOW PROGRAM  
 PAWTUCKET TUNNEL - CONSTRUCTION MATERIAL REUSE - BUCKLIN POINT  
 NORTH LANDFILL FINAL SITE PLAN NO. 1

BRANDON M. BLANCHARD  
 No. 8986  
 3.4.22  
 REGISTERED PROFESSIONAL ENGINEER  
 (CIVIL)

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**COASTAL RESOURCES**  
**MANAGEMENT COUNCIL**

**LEGEND**

|  |   |
|--|---|
|  | BITUMINOUS PAVEMENT                     |
|  | PROCESSED GRAVEL ACCESS ROAD            |
|  | RIPRAP (R-4)                            |
|  | RIDOT NATIVE SEED MIX (RIDOT M.18.10.6) |
|  | WILDFLOWER SEED MIX (RIDOT M.18.10.8)   |



PLOT DATE: Thursday, March 3, 2022 11:57:07 AM  
 MATCHLINE CONTINUED ON SHEET C-14  
 DWG FILE: Z:\JOBS\14\_2021\14166\03\_NBC Phase III CSO CERAT Tunnel (16-Bucklin Point Landfill)\DWG\SITE2.dwg

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| SCALE  | WARNING  |
| 1"=40' | IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE |

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| DRAWN: R.B./A.L.      | NOT FOR CONSTRUCTION   |
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NARRAGANSETT BAY COMMISSION  
 PHASE III COMBINED SEWER  
 OVERFLOW PROGRAM

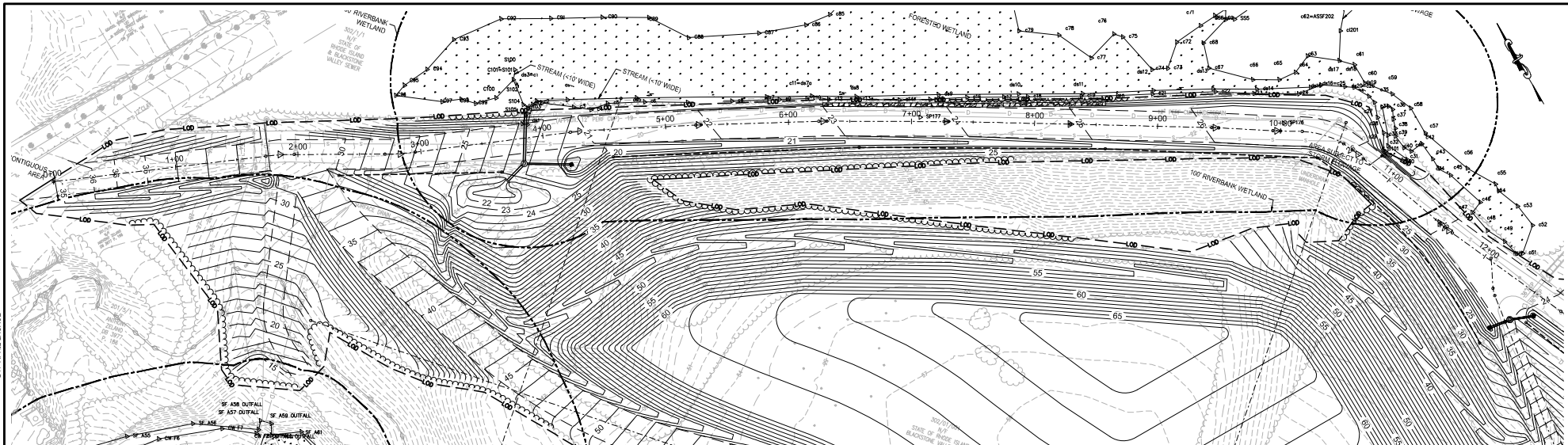
NBC CONTRACT NO 308.01C  
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 PHASE III COMBINED SEWER OVERFLOW PROGRAM  
 PAWTUCKET TUNNEL - CONSTRUCTION MATERIAL REUSE - BUCKLIN POINT  
 NORTH LANDFILL FINAL SITE PLAN NO. 2

SHEET  
**C-15**  
 195130227

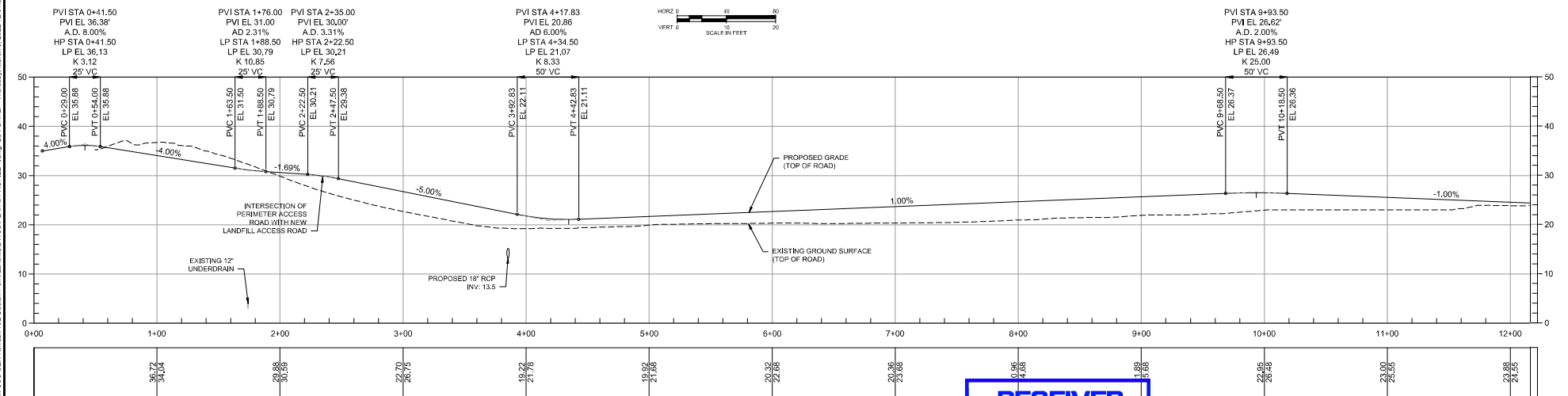
BRANDON M. BLANCHARD  
 No. 6886  
 3.4.22  
 REGISTERED PROFESSIONAL ENGINEER  
 CIVIL



DWG FILE: Z:\JOBS\14\06\03\NBC Phase III CSCR\Plan\18E-Bucklin Perim Landfill\DWG\PLAN & PROFILE-1.dwg PLOT DATE: Thursday, March 2, 2022 12:01:34 PM  
 BY: APRIL LADAGE



PLAN



PROFILE

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 DRAWN: RBAL  
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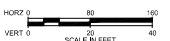
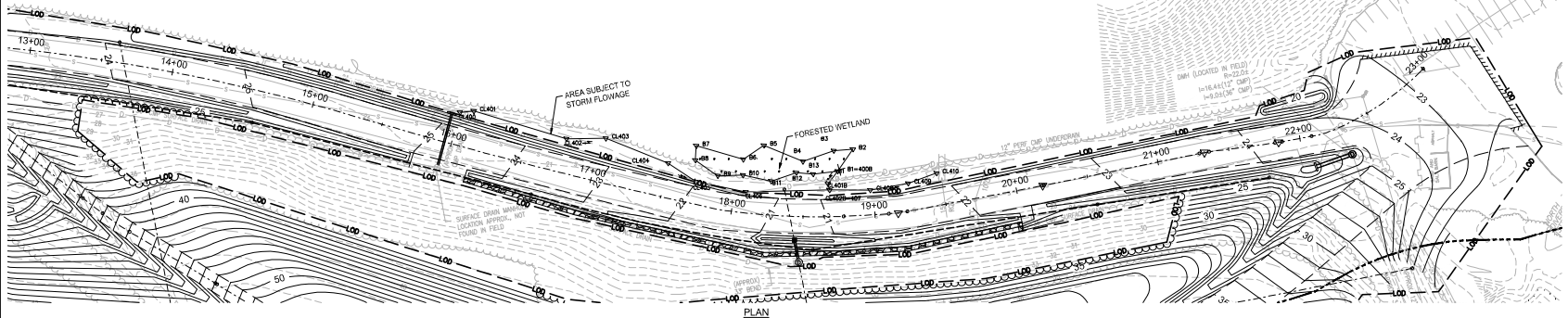


MANAGEMENT COMMISSION  
 PHASE III COMBINED SEWER  
 OVERFLOW PROGRAM

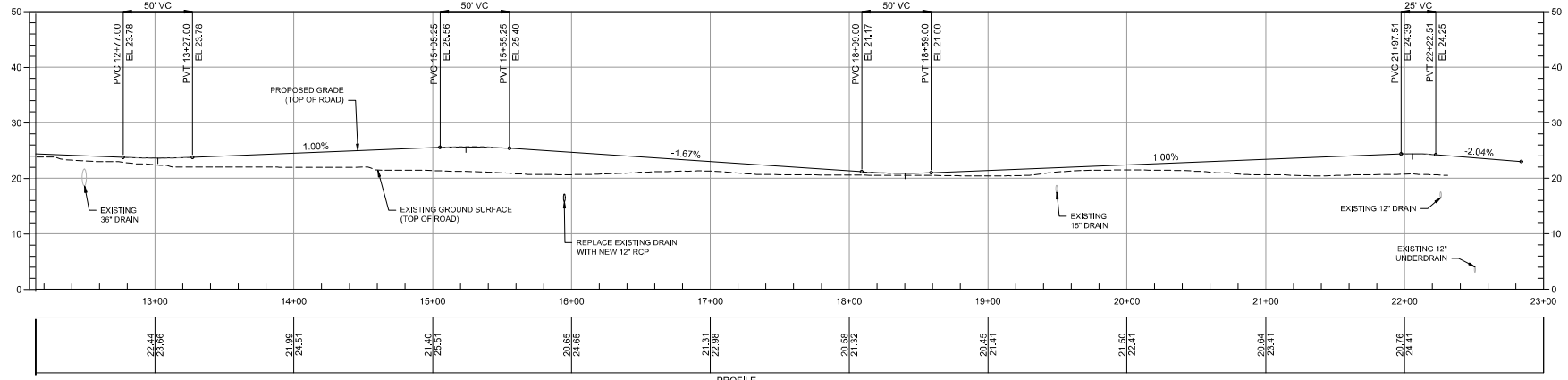
NBC CONTRACT NO 308.01C  
 CIVIL  
 PHASE III COMBINED SEWER OVERFLOW PROGRAM  
 PAINTUCKET TUNNEL - CONSTRUCTION MATERIAL REUSE - BUCKLIN POINT  
 NORTH LANDFILL PERIMETER ACCESS ROAD PLAN AND PROFILE NO. 1

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 C-16  
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|   |  |   |   |
|---|--|---|---|
| PVI STA 13+02.00<br>PVI EL 23.53<br>A.D. 2.00%<br>LP STA 13+02.00<br>LP EL 23.66<br>K 25.00<br>50' VC | PVI STA 15+30.25<br>PVI EL 25.81'<br>A.D. 2.67%<br>HP STA 15+24.00<br>LP EL 25.66<br>K 18.75<br>50' VC | PVI STA 18+34.00<br>PVI EL 20.75<br>A.D. 2.67%<br>LP STA 18+40.25<br>LP EL 20.91<br>K 18.75<br>50' VC | PVI STA 22+10.01<br>PVI EL 24.51'<br>A.D. 3.04%<br>HP STA 22+05.73<br>LP EL 24.43<br>K 8.22<br>25' VC |
|---|--|---|---|



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 BY: APRIL LAVAGE

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 OVERFLOW PROGRAM

NBC CONTRACT NO 308.01C  
 CIVIL  
 PHASE III COMBINED SEWER OVERFLOW PROGRAM  
 PAINTBUCKET TUNNEL - CONSTRUCTION MATERIAL REUSE - BUCKLIN POINT  
 NORTH LANDFILL PERIMETER ACCESS ROAD PLAN AND PROFILE NO. 2

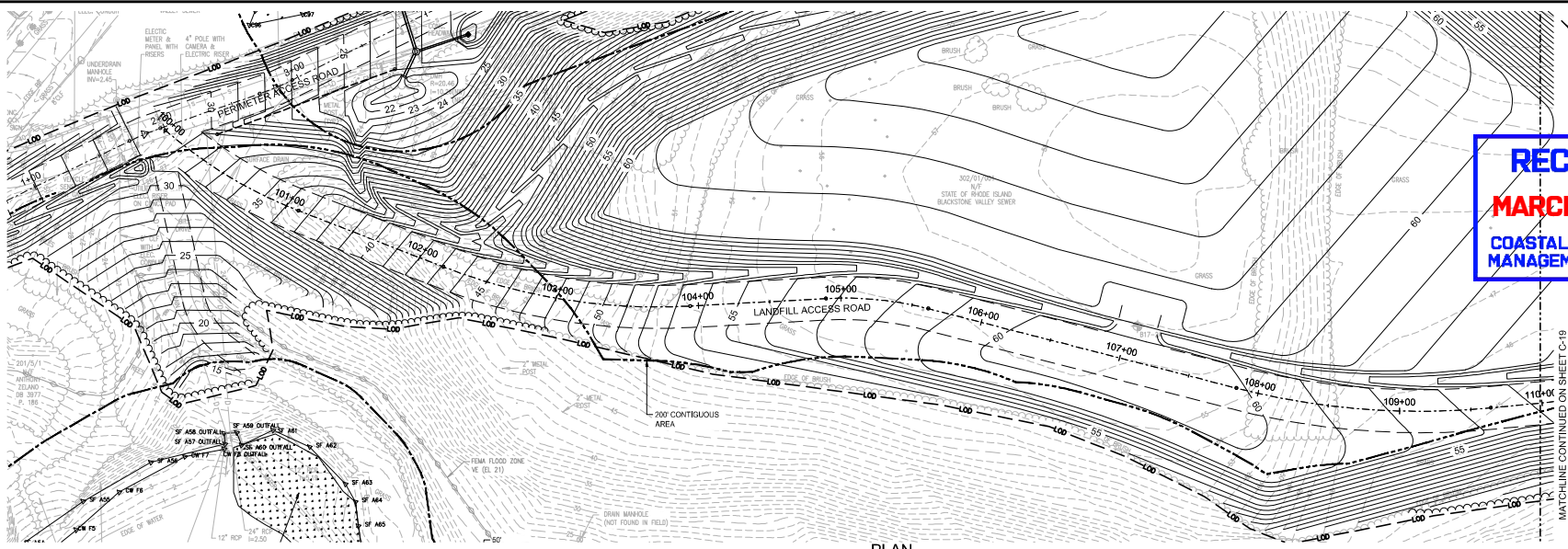
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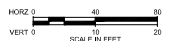
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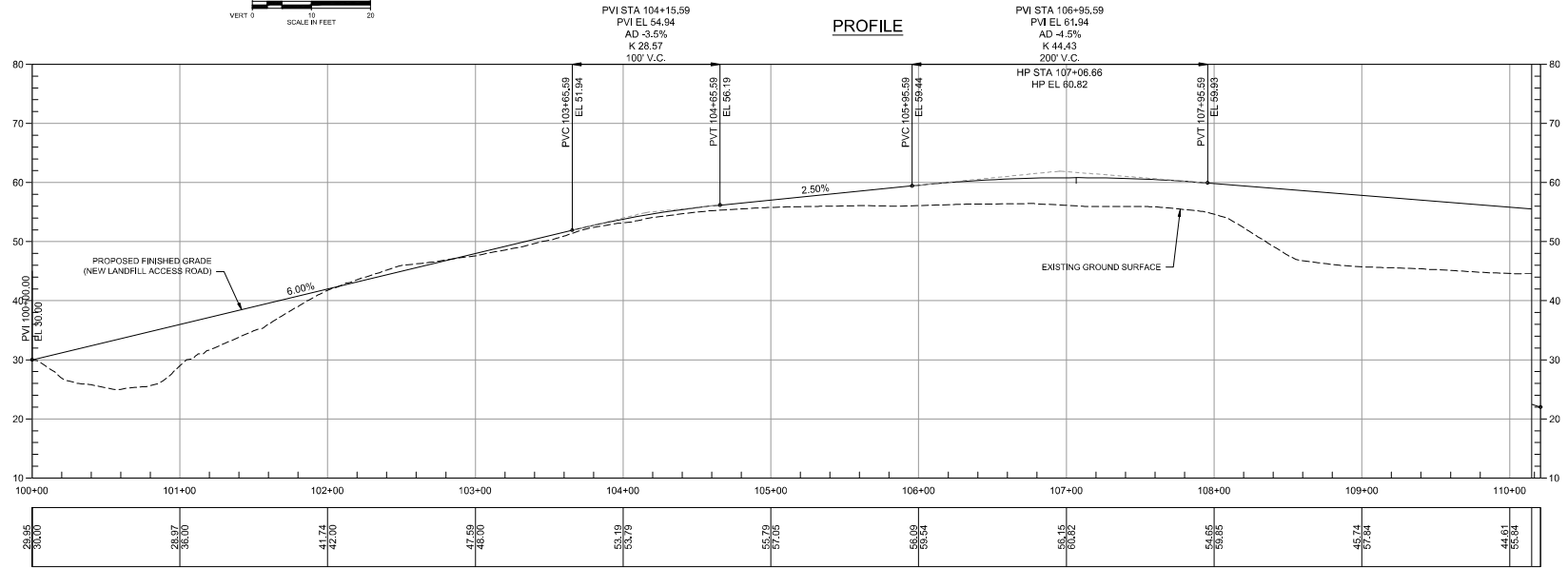
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MATCHLINE CONTINUED ON SHEET C-19



**PLAN**  
**PROFILE**



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DRAWN: R.B.I.A.L.

CHECKED: B.B.

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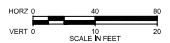
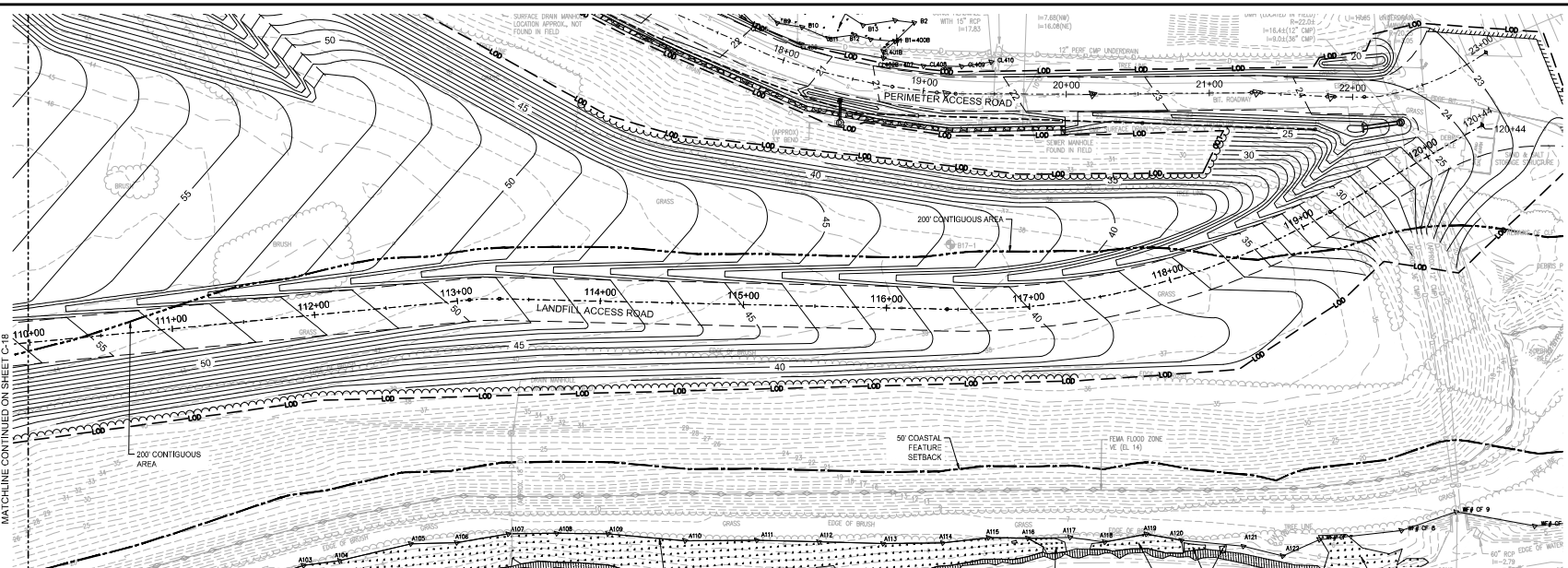
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PHASE III COMBINED SEWER  
OVERFLOW PROGRAM

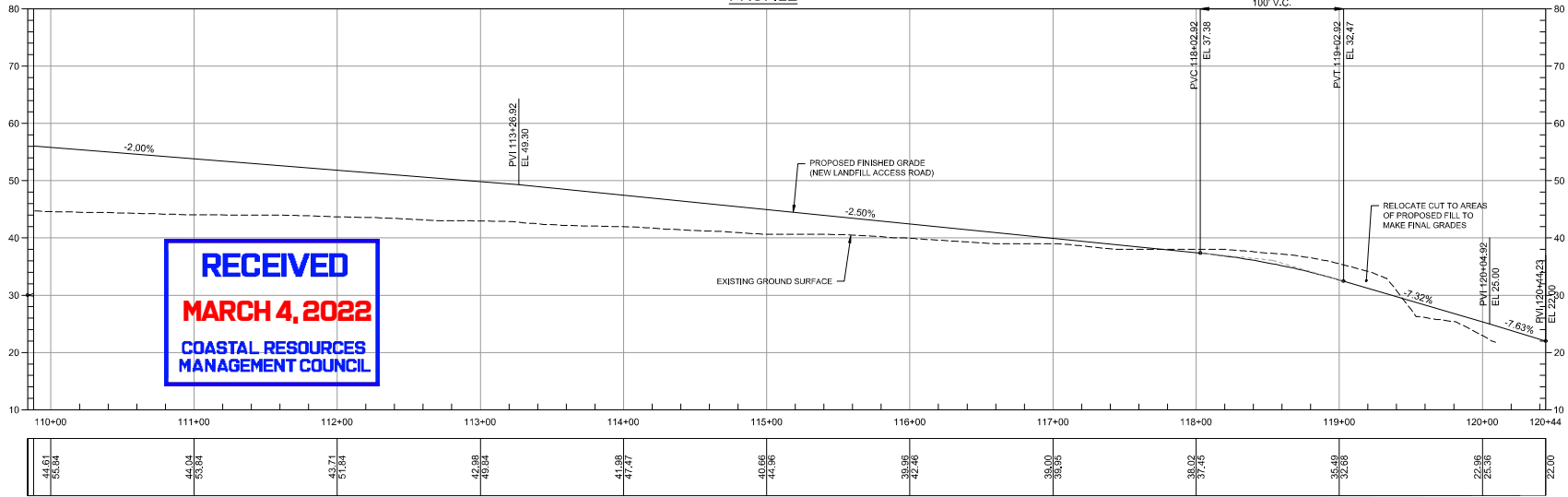
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CIVIL  
PHASE III COMBINED SEWER OVERFLOW PROGRAM  
PAINTUCKET TUNNEL - CONSTRUCTION MATERIAL REUSE - BUCKLIN POINT  
NORTH LANDFILL ACCESS ROAD PLAN AND PROFILE NO. 1

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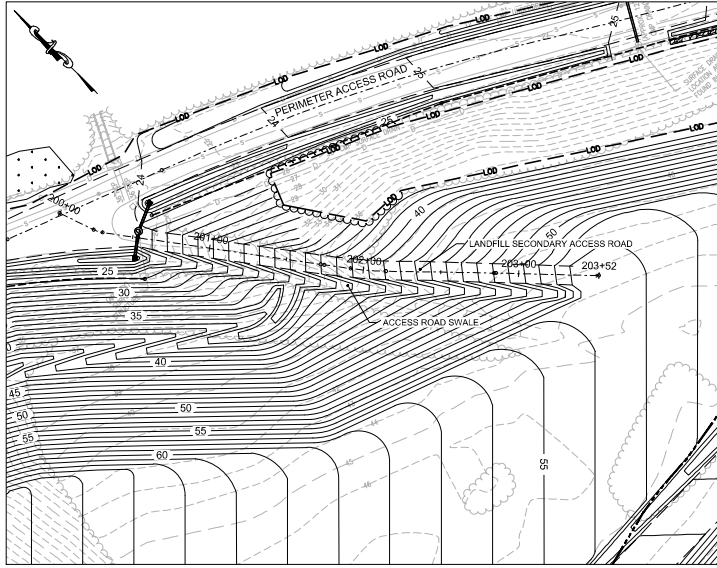
NARRAGANSETT BAY COMMISSION  
 PHASE III COMBINED SEWER  
 OVERFLOW PROGRAM

NBC CONTRACT NO 308.01C  
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 PAINTUCKET TUNNEL - CONSTRUCTION MATERIAL REUSE - BUCKLIN POINT  
 NORTH LANDFILL ACCESS ROAD PLAN AND PROFILE NO. 2

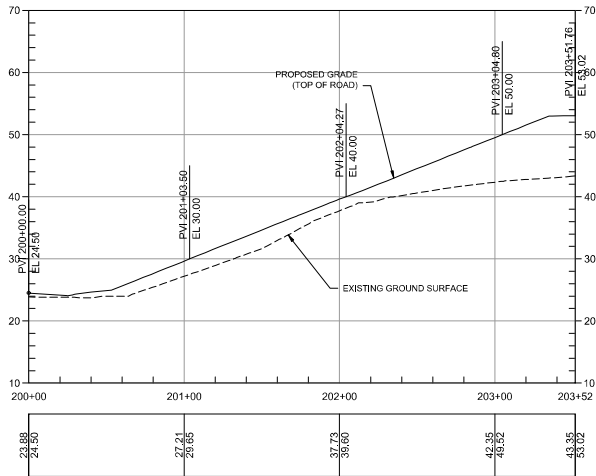
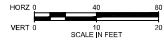
SHEET C-19  
 195130227

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PLAN



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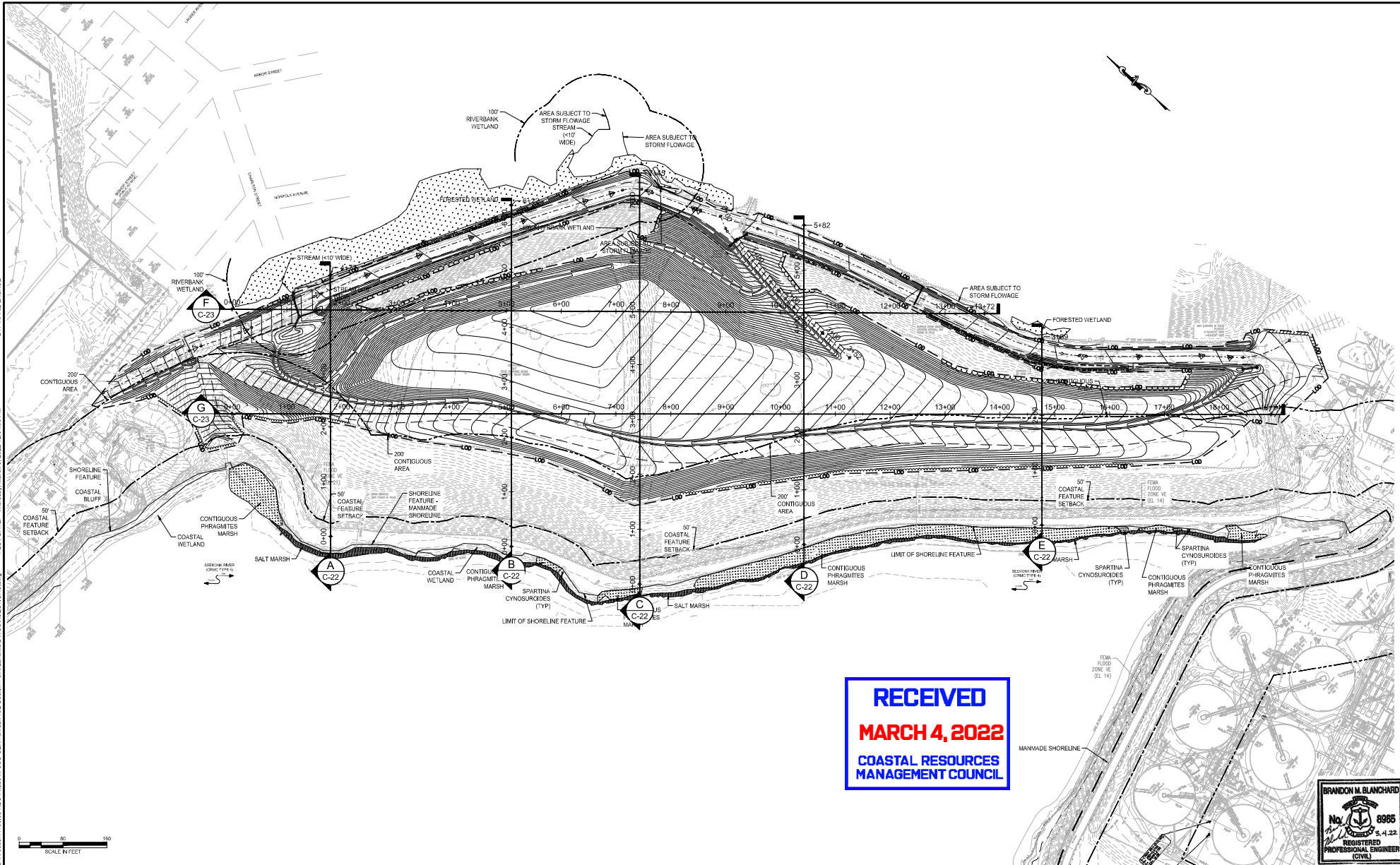
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 PHASE III COMBINED SEWER  
 OVERFLOW PROGRAM  
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 CIVIL  
 PHASE III COMBINED SEWER OVERFLOW PROGRAM  
 PAINTUCKET TUNNEL - CONSTRUCTION MATERIAL REUSE - BUCKLIN POINT  
 NORTH LANDFILL SECONDARY ACCESS ROAD PLAN AND PROFILE  
 SHEET C-20  
 195130227

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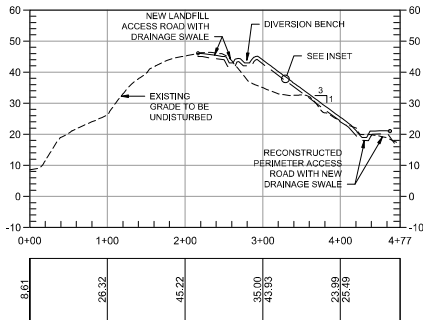
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 PHASE III COMBINED SEWER OVERFLOW PROGRAM  
 PAWBUCKET TUNNEL - CONSTRUCTION MATERIAL REUSE - BUCKLIN POINT  
 NORTH LANDFILL CROSS SECTION KEY PLAN

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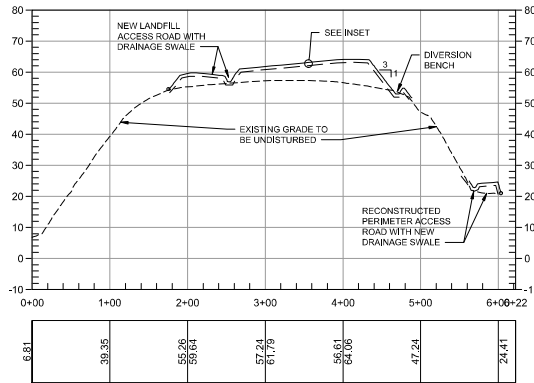
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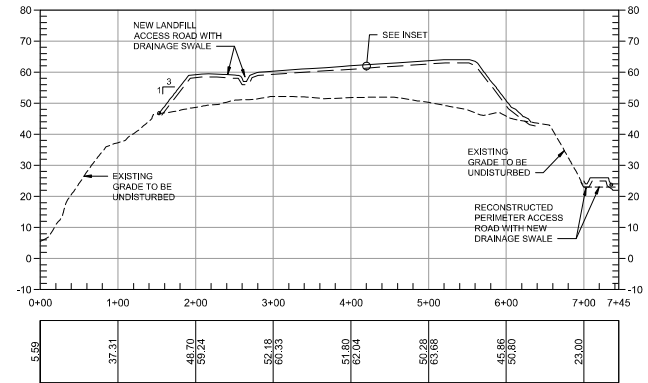
**COASTAL RESOURCES  
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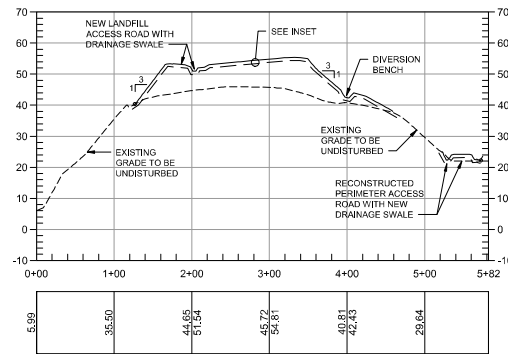
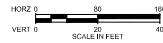
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C-21



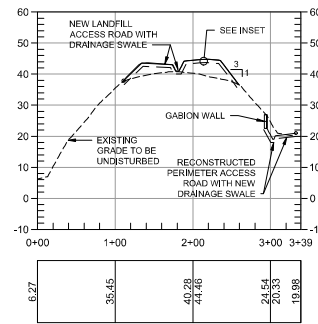
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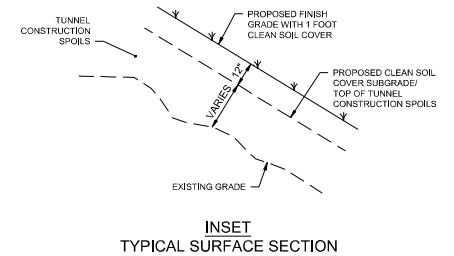
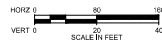
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C-21



SECTION D  
C-21



SECTION E  
C-21



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DRAWN: R.B.I.A.L.  
CHECKED: B.B.

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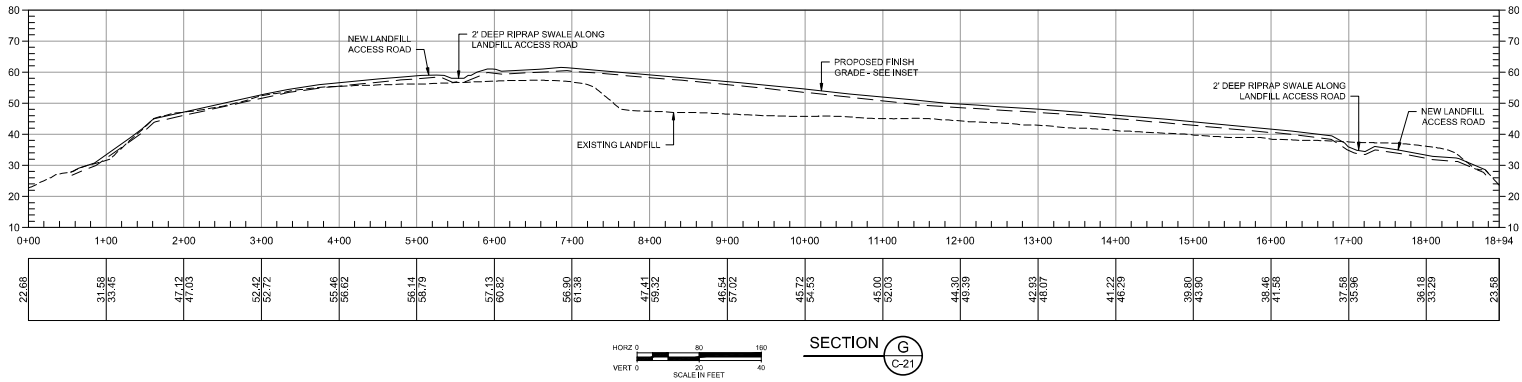
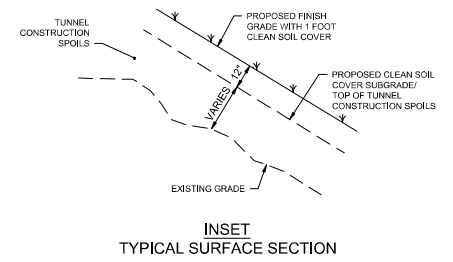
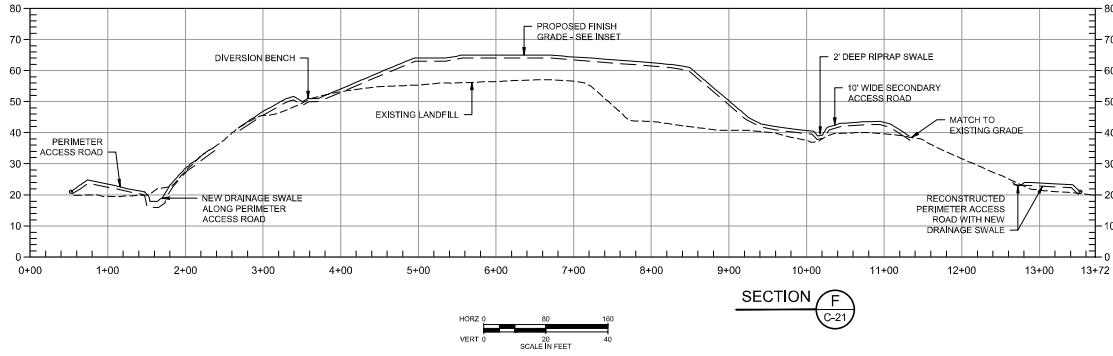
NARRAGANSETT BAY COMMISSION  
PHASE III COMBINED SEWER  
OVERFLOW PROGRAM

NBC CONTRACT NO 308.01C  
CIVIL  
PHASE III COMBINED SEWER OVERFLOW PROGRAM  
PAWTUCKET TUNNEL - CONSTRUCTION MATERIAL REUSE - BUCKLIN POINT  
NORTH LANDFILL CROSS SECTIONS NO. 1



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 PHASE III COMBINED SEWER  
 OVERFLOW PROGRAM

NBC CONTRACT NO 308.01C  
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 PHASE III COMBINED SEWER OVERFLOW PROGRAM  
 PAWTUCKET TUNNEL - CONSTRUCTION MATERIAL REUSE - BUCKLIN POINT  
 NORTH LANDFILL CROSS SECTIONS NO. 2

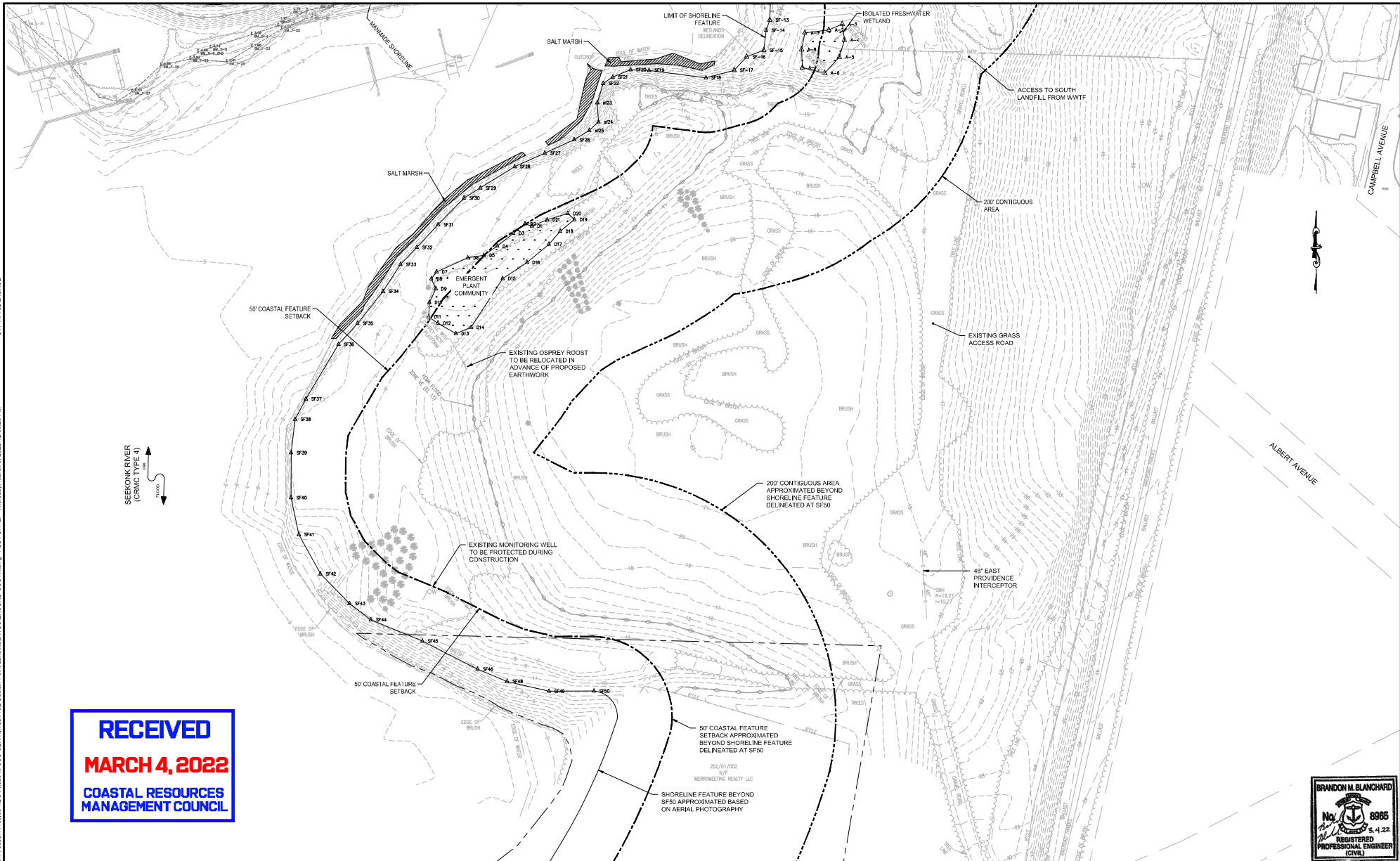


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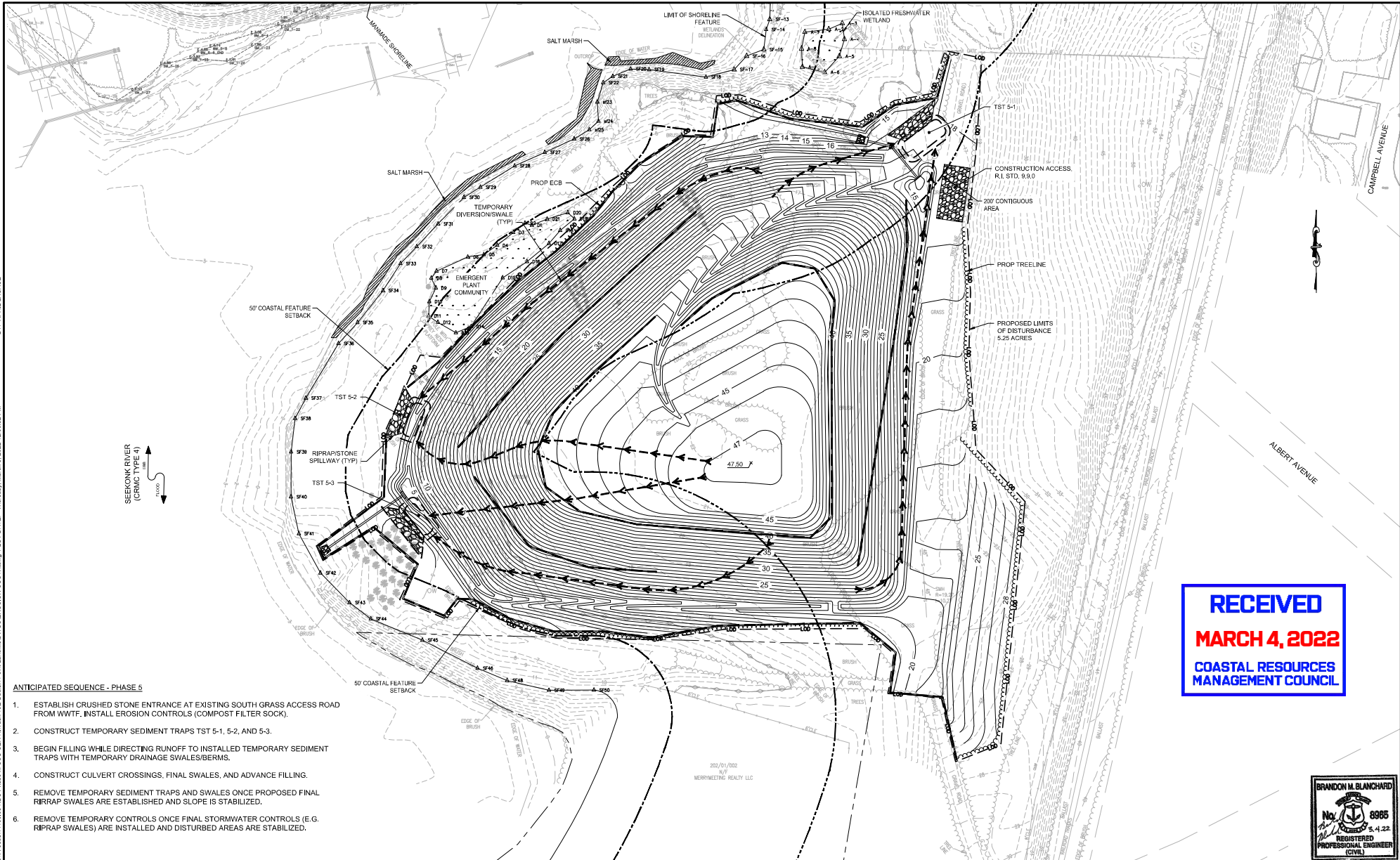
NARRAGANSETT BAY COMMISSION  
 PHASE III COMBINED SEWER OVERFLOW PROGRAM

NBC CONTRACT NO 308.01C  
 CIVIL  
 PHASE III COMBINED SEWER OVERFLOW PROGRAM  
 PAWTUCKET TUNNEL - CONSTRUCTION MATERIAL REUSE - BUCKLIN POINT  
 SOUTH LANDFILL EXISTING CONDITIONS PLAN

SHEET C-24  
 195130227

BY: APRIL LADAGE

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**ANTICIPATED SEQUENCE - PHASE 5**

1. ESTABLISH CRUSHED STONE ENTRANCE AT EXISTING SOUTH GRASS ACCESS ROAD FROM WMTF. INSTALL EROSION CONTROLS (COMPOST FILTER SOCK).
2. CONSTRUCT TEMPORARY SEDIMENT TRAPS TST 5-1, 5-2, AND 5-3.
3. BEGIN FILLING WHILE DIRECTING RUNOFF TO INSTALLED TEMPORARY SEDIMENT TRAPS WITH TEMPORARY DRAINAGE SWALES/BERMS.
4. CONSTRUCT CULVERT CROSSINGS, FINAL SWALES, AND ADVANCE FILLING.
5. REMOVE TEMPORARY SEDIMENT TRAPS AND SWALES ONCE PROPOSED FINAL RIPRAP SWALES ARE ESTABLISHED AND SLOPE IS STABILIZED.
6. REMOVE TEMPORARY CONTROLS ONCE FINAL STORMWATER CONTROLS (E.G. RIPRAP SWALES) ARE INSTALLED AND DISTURBED AREAS ARE STABILIZED.

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 PHASE III COMBINED SEWER OVERFLOW PROGRAM

NBC CONTRACT NO 308.01C  
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 PHASE III COMBINED SEWER OVERFLOW PROGRAM  
 PAWTUCKET TUNNEL - CONSTRUCTION MATERIAL REUSE - BUCKLIN POINT  
 SOUTH LANDFILL EROSION CONTROL PLAN

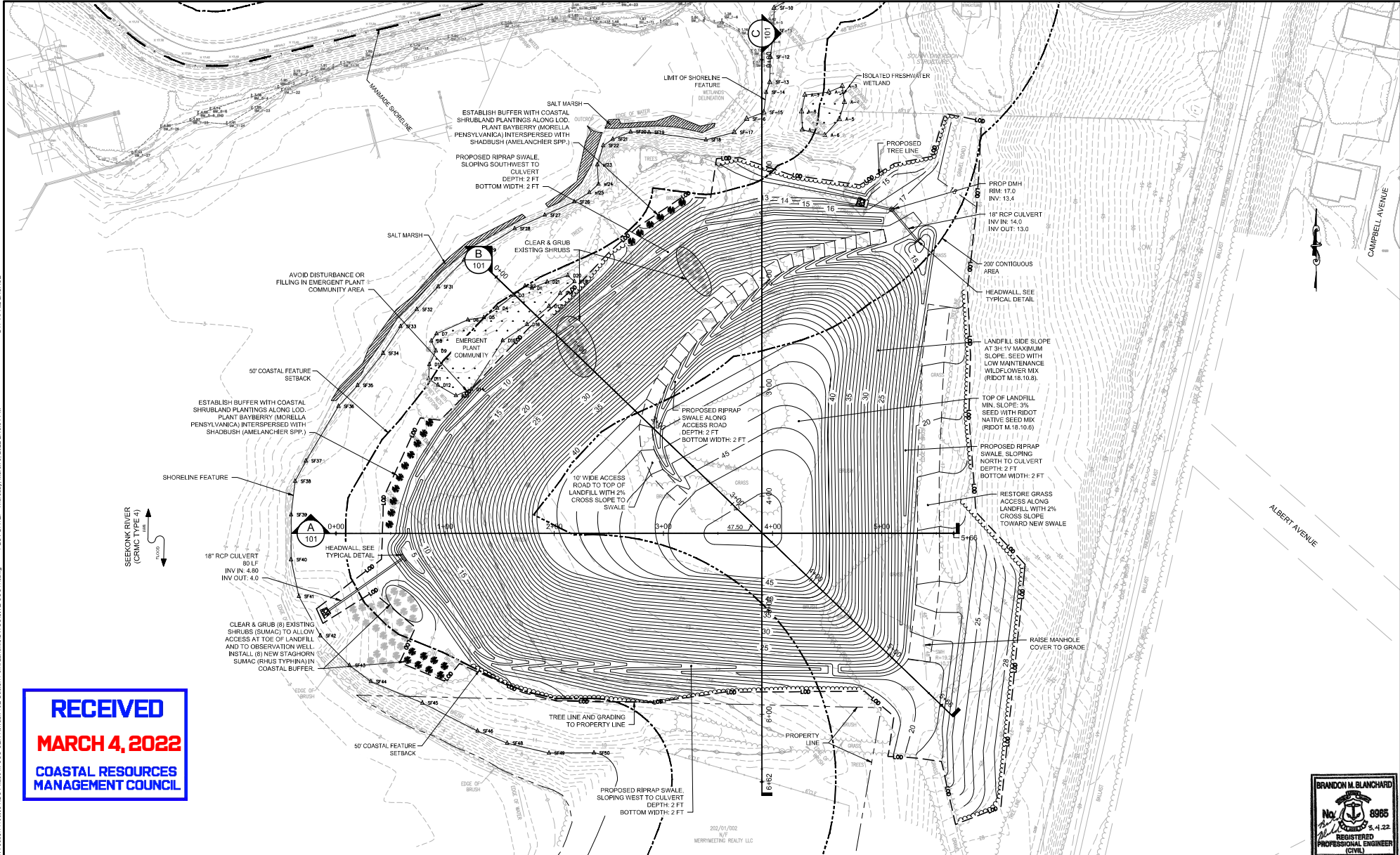


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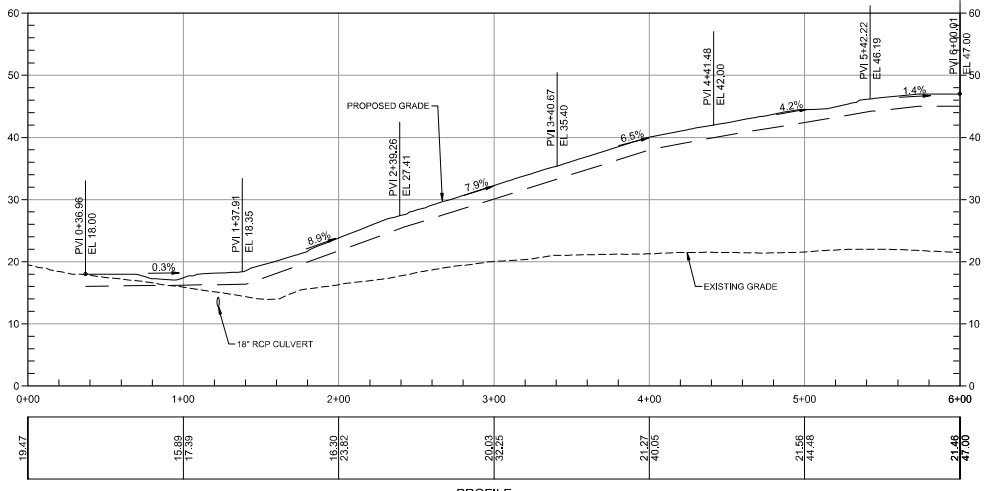
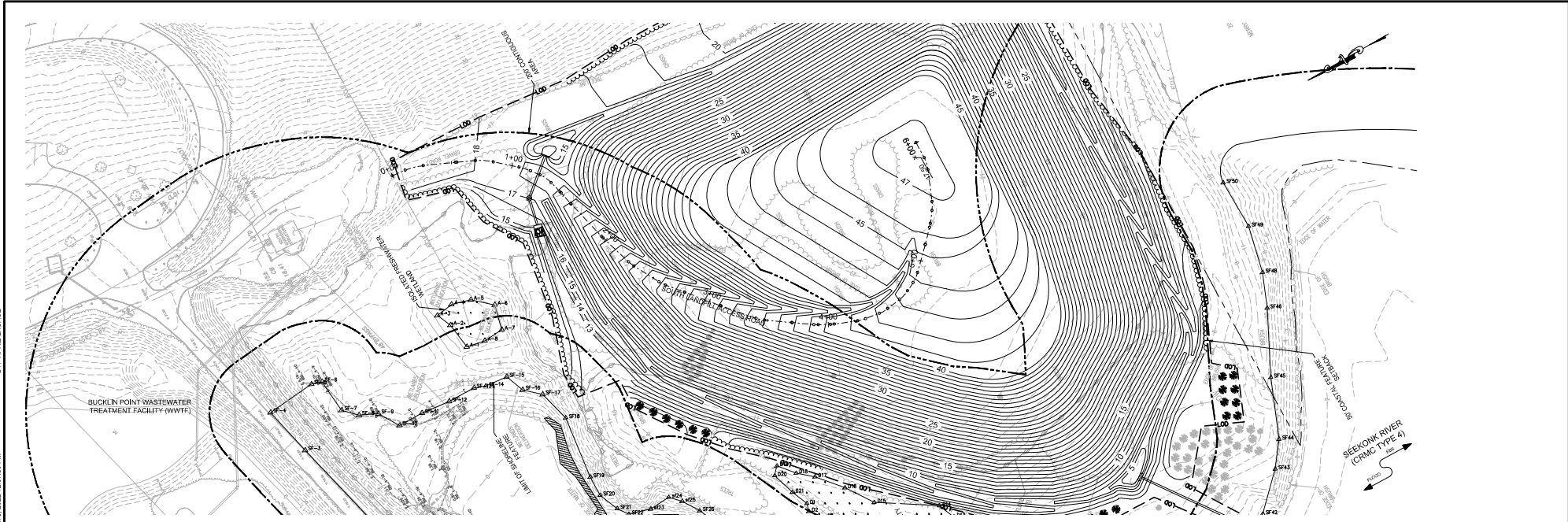


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 DRAWN: R.B.I.A.L.  
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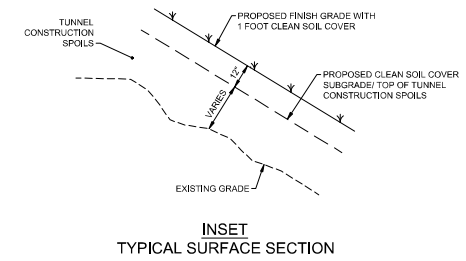
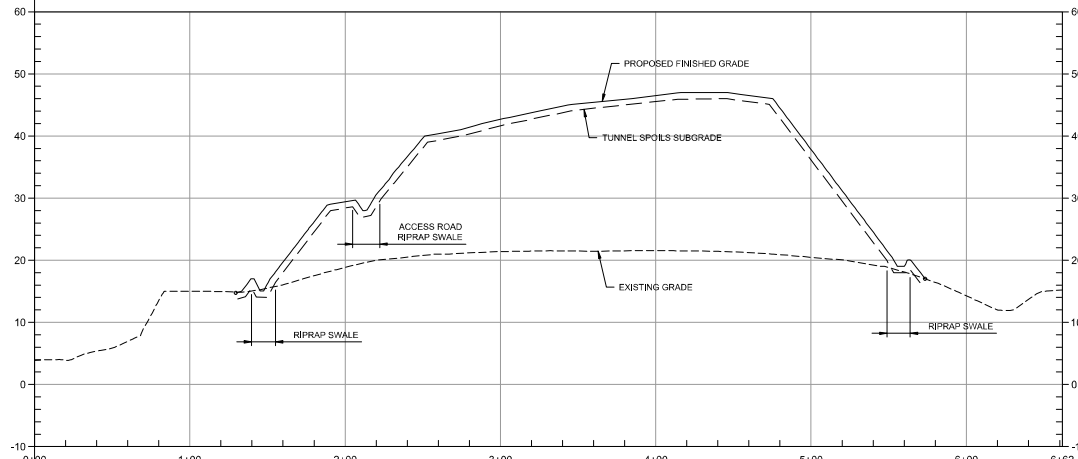
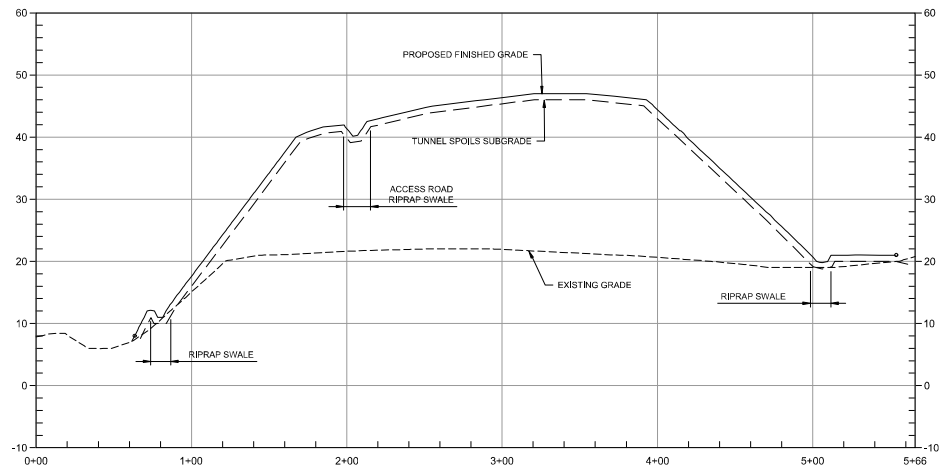
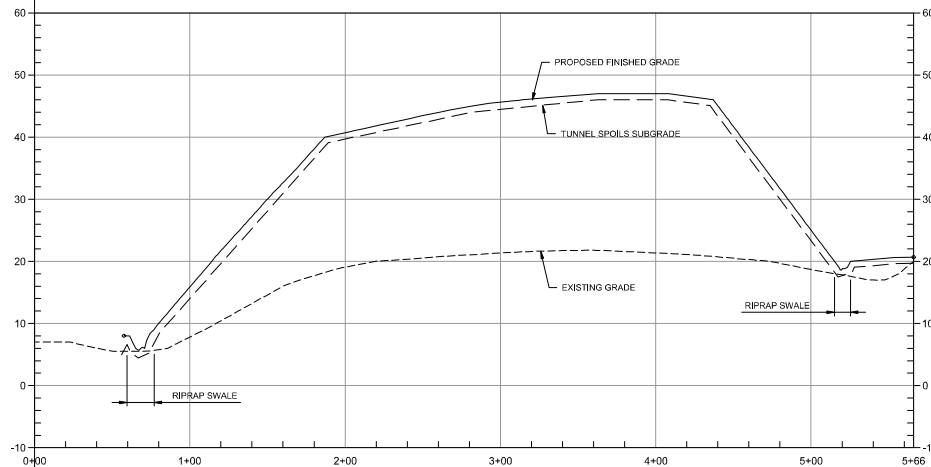
NARRAGANSETT BAY COMMISSION  
 PHASE III COMBINED SEWER  
 OVERFLOW PROGRAM  
 Stantec

NBC CONTRACT NO 308.01C  
 CIVIL  
 PHASE III COMBINED SEWER OVERFLOW PROGRAM  
 PAWTUCKET TUNNEL - CONSTRUCTION MATERIAL REUSE - BUCKLIN POINT  
 SOUTH LANDFILL PLAN AND PROFILE

SHEET: C-27  
 195130227

BY: APRIL LADAGE

DWG FILE: Z:\JOB514\Job514\160.03 NBC Phase III CSO CERCA\Task 1\Bucklin Point Landfill\DWG\SECTIONS-SOUTH.rvt PLOT DATE: Thursday, March 3, 2022 2:08:10 PM



**RECEIVED**  
**MARCH 4, 2022**  
**COASTAL RESOURCES**  
**MANAGEMENT COUNCIL**



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SCALE: 1"=40'

WARNING: IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DESIGNED: CJMS/DW  
DRAWN: RBAL  
CHECKED: BB

PERMIT SUBMISSION - MARCH 4, 2022

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HORIZ 0 40 80  
VERT 0 10 20  
SCALE IN FEET

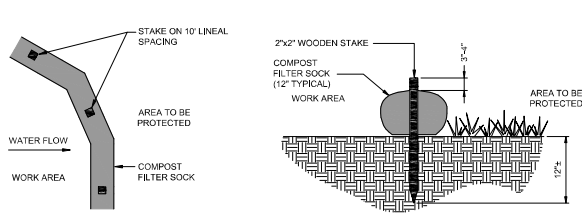


NARRAGANSETT BAY COMMISSION  
PHASE III COMBINED SEWER  
OVERFLOW PROGRAM

NBC CONTRACT NO 308.01C  
CIVIL  
PHASE III COMBINED SEWER OVERFLOW PROGRAM  
PAWTUCKET TUNNEL - CONSTRUCTION MATERIAL REUSE - BUCKLIN POINT  
SOUTH LANDFILL CROSS SECTIONS

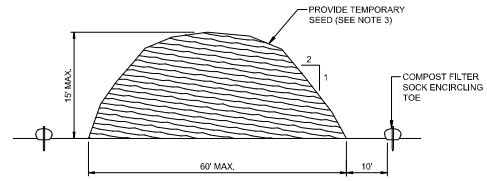
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195130227

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 BY: APRIL LADAGE



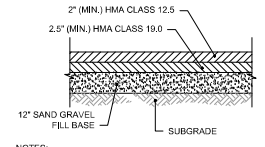
- NOTES:**
1. COMPOST/SOIL/ROCK/SEED FILL TO MEET APPLICATION REQUIREMENTS.
  2. COMPOST MATERIAL TO BE REMOVED OR DISPERSED ON SITE AS DETERMINED BY ENGINEER.

**COMPOST FILTER SOCK DETAIL**



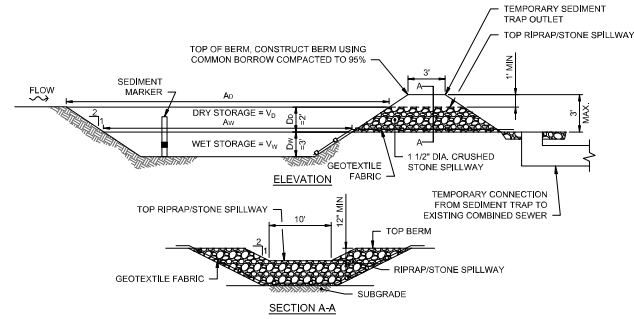
- NOTES:**
1. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL PREPARE A PLAN SHOWING THE PROPOSED LOCATION OF ALL STOCKPILE AREAS.
  2. STOCKPILE AREA SHALL NOT EXCEED SPECIFIED DIMENSIONS WITHOUT APPROVAL FROM ENGINEER.
  3. STOCKPILED ERODIBLE MATERIAL THAT WILL NOT BE USED FOR GREATER THAN 14 DAYS SHALL BE STABILIZED WITH TEMPORARY SEED IMMEDIATELY FOLLOWING PLACEMENT.

**ERODIBLE MATERIAL STOCKPILE**



- NOTES:**
1. MINIMUM TOTAL PAVEMENT THICKNESS IS 4.5\"/>
  2. ADJUST STRUCTURES TO GRADE AS REQUIRED.

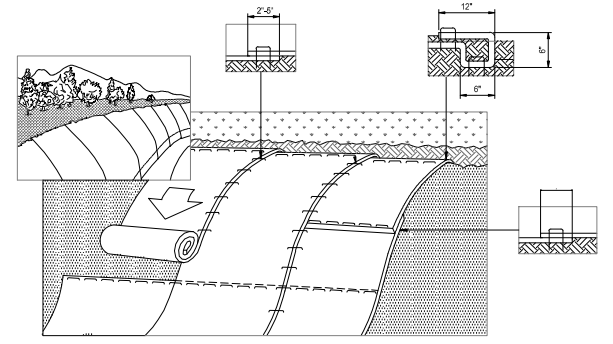
**HOT MIX ASPHALT**



- NOTES:**
1. TEMPORARY SEDIMENT TRAPS SHALL BE CLEANED OR REMOVED EVERY 6 MONTHS.
  2. RIPRAP SHALL MEET RIDOT STANDARD SPECIFICATION M.10.03.2.
  3. STONE SHALL MEET RIDOT STANDARD SPECIFICATION M.01.09 TABLE I, COLUMN V (FILTER STONE).
  4. SEDIMENT MARKER SHALL BE INSTALLED SUCH THAT TOP OF BLACK ENAMEL BAND IS 1.5\"/>
  5. REFER TO SOIL EROSION AND SEDIMENT CONTROL PLANS FOR LIMITS OF A<sub>1</sub> AND A<sub>2</sub>.
  6. SIZING SHALL COMPLY WITH RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK.

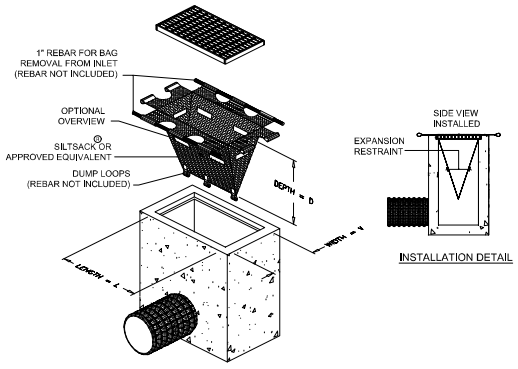
|         | L <sub>1</sub> (FT) | V <sub>W</sub> (FT) | A <sub>1</sub> (SF) | V <sub>1</sub> (CF) | V <sub>2</sub> (CF) | TOTAL STORAGE V <sub>W</sub> + V <sub>2</sub> (CF) |
|---------|---------------------|---------------------|---------------------|---------------------|---------------------|--|
| TST 1-1 | 35                  | 12                  | 420                 | 1071                | 1248                | 2319   |
| TST 1-2 | 45                  | 20                  | 900                 | 2295                | 2362                | 4647   |
| TST 1-3 | 30                  | 15                  | 450                 | 1148                | 1292                | 2440   |
| TST 1-4 | 40                  | 10                  | 400                 | 1000                | 1232                | 2252   |
| TST 1-5 | 25                  | 10                  | 250                 | 838                 | 812                 | 1450   |
| TST 1-6 | 35                  | 10                  | 350                 | 893                 | 1097                | 1985   |

|         |    |    |      |      |      |      |
|---------|----|----|------|------|------|------|
| TST 2-1 | 50 | 23 | 1150 | 2932 | 2916 | 5848 |
| TST 2-2 | 50 | 23 | 1150 | 2932 | 2916 | 5848 |
| TST 3-1 | 35 | 15 | 525  | 1339 | 1482 | 2821 |
| TST 3-2 | 50 | 20 | 1000 | 2550 | 2592 | 5142 |
| TST 3-3 | 50 | 20 | 1000 | 2550 | 2592 | 5142 |
| TST 4-1 | 50 | 25 | 1250 | 3188 | 3132 | 6320 |
| TST 4-2 | 40 | 20 | 800  | 2040 | 2112 | 4152 |
| TST 4-3 | 40 | 20 | 800  | 2040 | 2112 | 4152 |



- NOTES:**
1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
  2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6\"/>
  3. ROLL THE FIRST ROW OF BLANKET HORIZONTALLY ACROSS THE BOTTOM OF THE SLOPE, OVERLAPPING THE NEXT BLANKET DOWN THE SLOPE WITH PROPER OVERLAP. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
  4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2\"/>
  5. CONSECUTIVE BLANKETS SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3\"/>
  6. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6\"/>

**EROSION CONTROL BLANKET**



**TEMPORARY INLET PROTECTION DETAIL**

**TEMPORARY SEDIMENT TRAP DETAIL**

| REV | DATE | BY | DESCRIPTION |
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|     |      |    |             |

SCALE: NOT TO SCALE

WARNING: IF THIS BAR DOES NOT MEASURE 1\"/>

DESIGNED: C.J.M./D.W.  
 DRAWN: R.B.A.L.  
 CHECKED: B.B.

PERMIT SUBMISSION - MARCH 4, 2022

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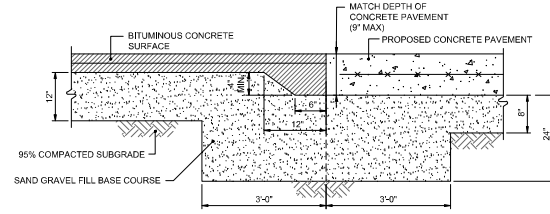
NARRAGANSETT BAY COMMISSION  
 PHASE III COMBINED SEWER  
 OVERFLOW PROGRAM

NBC CONTRACT NO 308.01C  
 CIVIL  
 PHASE III COMBINED SEWER OVERFLOW PROGRAM  
 PAWTUCKET TUNNEL - CONSTRUCTION MATERIAL REUSE - BUCKLIN POINT  
 DETAILS NO. 1

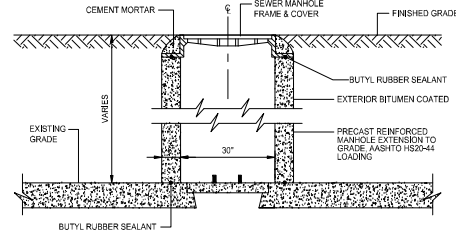


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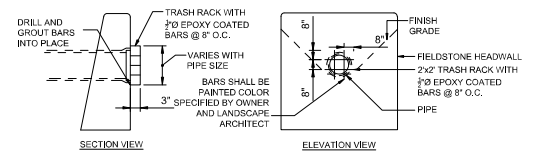
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 BY: APRIL LADAGE



ASPHALT TURNDOWN DETAIL

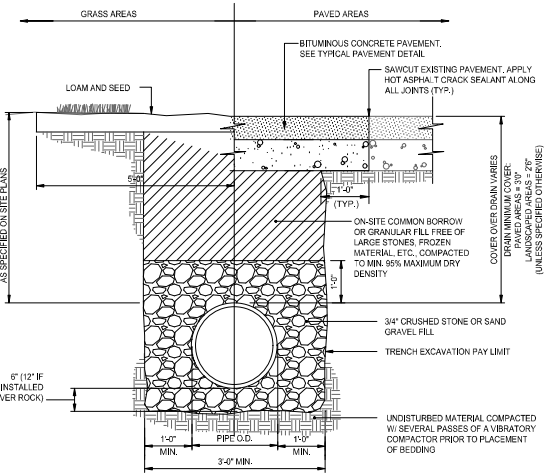


TYPICAL MANHOLE EXTENSION TO GRADE



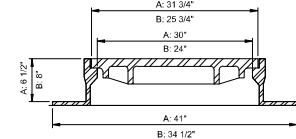
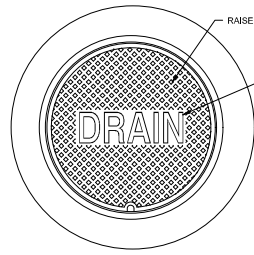
NOTES:  
 1. CONTRACTOR SHALL PROVIDE NUMBER OF BARS REQUIRED TO CONSTRUCT RACK. NUMBER OF BARS WILL VARY WITH PIPE SIZE.

HEADWALL PROTECTION RACK DETAIL



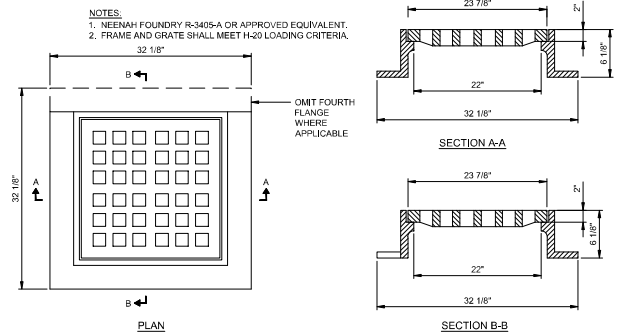
NOTES:  
 1. WHERE THE DISTANCE BETWEEN THE SAWCUT AND EDGE OF PAVEMENT IS 3' OR LESS, THE CONTRACTOR SHALL REPLACE THE PAVEMENT FROM THE TRENCH EDGE TO THE EXISTING EDGE OF PAVEMENT.  
 2. 3/4" DIA. CRUSHED STONE SHALL BE USED AS BEDDING WHERE TRENCH IS BELOW THE GROUND WATER TABLE.

GRAVITY DRAIN TRENCH DETAIL



DRAIN MANHOLE FRAME & COVER

NOTES:  
 1. ALL FRAMES AND COVERS SHALL MEET H-20 LOADING CRITERIA.  
 2. PROVIDE:  
 A. 30" DIA. DRAIN MAN-HOLE FRAME AND COVER SHALL BE NEEHAH FOUNDRY, INC. MODEL #R-1557 OR APPROVED EQUIVALENT.  
 B. 24" DIA. DRAIN MAN-HOLE FRAME AND COVER SHALL BE NEEHAH FOUNDRY, INC. MODEL #R-1556 OR APPROVED EQUIVALENT.  
 3. ALL DRAIN MANHOLES SHALL HAVE 24" DIA. DRAIN MAN-HOLE COVER UNLESS NOTED OTHERWISE.



GENERAL NOTES:  
 1. REINFORCING STEEL CONFORMS TO LATEST A.S.T.M. A 185 SPEC. 0.12 SQ. IN. LINEAL FT. AND 0.12 SQ. IN. (BOTH WAYS) BASE BOTTOM  
 2. CONC. MINIMUM COMPRESSIVE STRENGTH = 4000 PSI TYPE III CEMENT.  
 3. MANHOLE DESIGN SPECIFICATIONS CONFORM TO LATEST A.S.T.M. C 478 SPEC. FOR "PRECAST REINFORCED CONCRETE MANHOLE SECTIONS".  
 4. PROVIDE ONE POUR 6" THICK REINFORCED MONOLITHIC BASE SECTION.  
 5. MANHOLE SHALL MEET H-20 LOADING CRITERIA.  
 6. ALL LIFTING HOLES TO BE PLUGGED IN AND OUT WITH HYDRAULIC CEMENT  
 7. MANHOLES SHALL HAVE 6" THICK WALLS.

SQUARE CATCH BASIN FRAME & GRATE

| REV | DATE | BY | DESCRIPTION |
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| SCALE        | WARNING  |
| NOT TO SCALE | IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE |

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|----------------------|--|
| DESIGNED: C.J.M.S/DW | PERMIT SUBMISSION - MARCH 4, 2022  |
| DRAWN: RBAL          | NOT FOR CONSTRUCTION   |
| CHECKED: BB          | This document is an interim document and not suitable for construction. As an interim document, it may contain data that is potentially inaccurate or incomplete and is not to be relied upon without the express written consent of the preparer. |

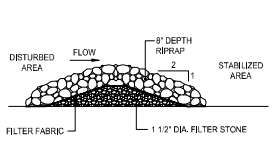
NARRAGANSETT BAY COMMISSION  
 PHASE III COMBINED SEWER  
 OVERFLOW PROGRAM

NBC CONTRACT NO 308.01C  
 CIVIL  
 PHASE III COMBINED SEWER OVERFLOW PROGRAM  
 PAWTUCKET TUNNEL - CONSTRUCTION MATERIAL, REUSE - BUCKLIN POINT  
 DETAILS NO. 2

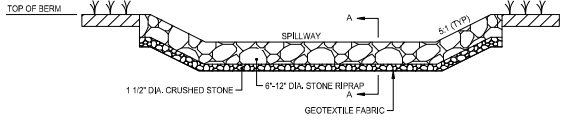
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 C-30  
 195130227



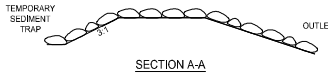
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 BY: APRIL LAJAGE



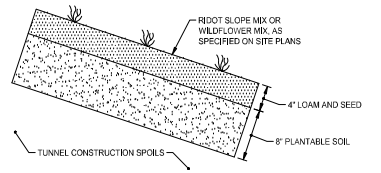
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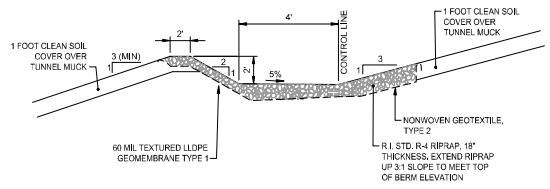
RIPRAP SPILLWAY DETAIL



SECTION A-A

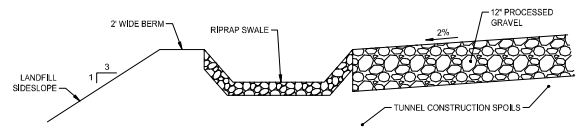


CLEAN SOIL COVER



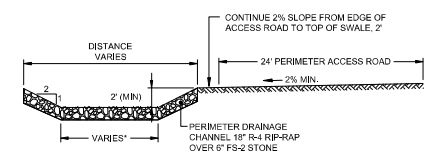
- NOTES:
- GRADE R-4 RIPRAP SHALL BE USED IN BENCH.

CROSS SECTION PROPOSED DIVERSION BENCH

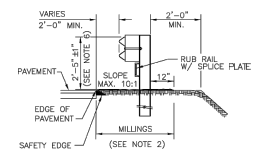


- NOTES:
- RIPRAP SWALE SHALL BE 2' DEEP WITH 2:1 SIDE SLOPES. WIDTH VARIES. SEE SITE PLANS.
  - RIPRAP SHALL BE R-4 SIZE.
  - ROAD WIDTH VARIES. SEE SITE PLANS.

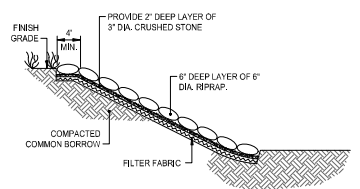
ACCESS ROAD ON LANDFILL



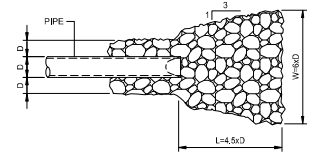
PERIMETER ACCESS ROAD AND DRAINAGE CHANNEL DETAIL



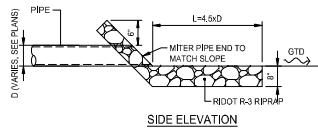
ROADSIDE GUARDRAIL INSTALLATION



RIPRAP SLOPE

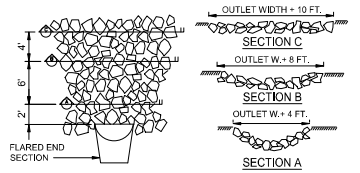


PLAN



SIDE ELEVATION

RIPRAP APRON



- NOTES:
- PLACE RIPRAP OVER FS-1 FILTER STONE BEDDING. RIPRAP SIZE TO BE INDICATED ON SITE PLANS.
  - DIMENSIONS MAY BE MODIFIED BY ENGINEER TO MEET FIELD CONDITIONS.
  - UNLESS OTHERWISE SPECIFIED, DUMPED RIPRAP SHALL BE USED.
  - DEPTH OF RIPRAP TO BE 18" FOR R-4 RIPRAP.

RIPRAP AT OUTLETS

| REV | DATE | BY | DESCRIPTION |
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|     |      |    |             |

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|--------------|--|
| SCALE        | WARNING  |
| NOT TO SCALE | IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE |

|          |         |
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| DESIGNED | CLMS/DW |
| DRAWN    | RRAL    |
| CHECKED  | BB      |

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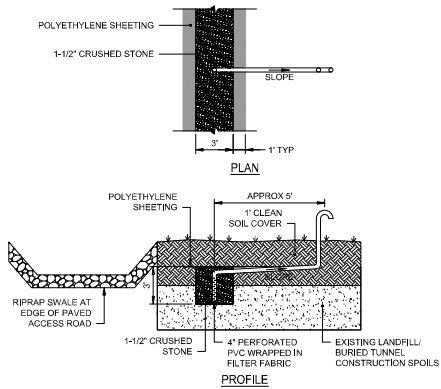


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| NARRAGANSETT BAY COMMISSION<br>PHASE III COMBINED SEWER<br>OVERFLOW PROGRAM | NBC CONTRACT NO 308.01C  | SHEET     |
|   | CIVIL  | C-31      |
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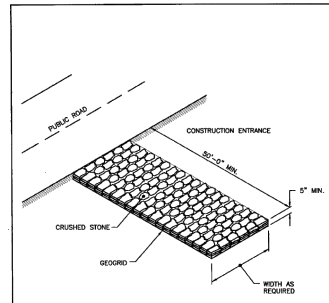


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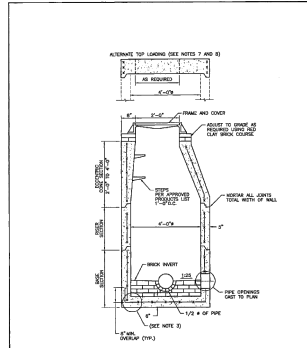
- NOTES:**
1. STRIP COVER MATERIAL AND STOCKPILE FOR REUSE.
  2. INSTALL VENT PIPE WITH A CONSISTENT SLOPE AS SHOWN ON DETAIL.
  3. VENT TO ATMOSPHERE WITH VERTICAL PIPE RISER EVERY 200' ON CENTER EXCEPT AT ENDS OF TRENCH OR AS OTHERWISE SHOWN.

**PASSIVE GAS VENT TRENCH DETAIL**



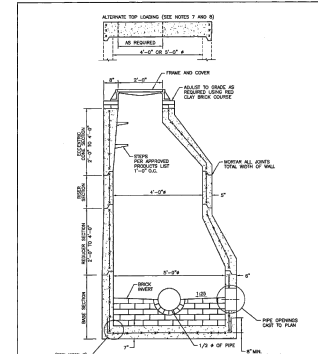
**NOTE:** SHALL BE IN ACCORDANCE WITH SECTION 211 OF THE R.I. STANDARD SPECIFICATIONS.

|   |              |                        |
|---|--------------|------------------------|
| RHODE ISLAND DEPARTMENT OF TRANSPORTATION |              | R.I. STANDARD<br>9.9.0 |
| NO.                                       | DATE         |                        |
| CONSTRUCTION ACCESS                       |              |                        |
| NO.                                       | BY           | DATE                   |
| 1   | J. Ladage    | JUNE 15, 1998          |
| 2   | B. Blanchard | NOV 24, 1998           |



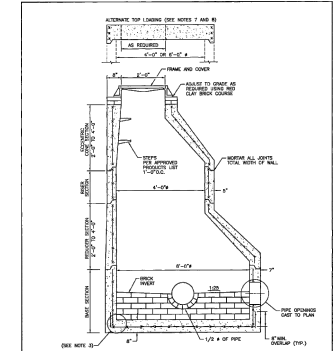
**NOTE:** SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.

|   |              |                        |
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| RHODE ISLAND DEPARTMENT OF TRANSPORTATION |              | R.I. STANDARD<br>4.2.9 |
| NO.                                       | DATE         |                        |
| PRECAST 4'-0" ROUND MANHOLE               |              |                        |
| NO.                                       | BY           | DATE                   |
| 1   | J. Ladage    | JUNE 15, 1998          |
| 2   | B. Blanchard | NOV 24, 1998           |



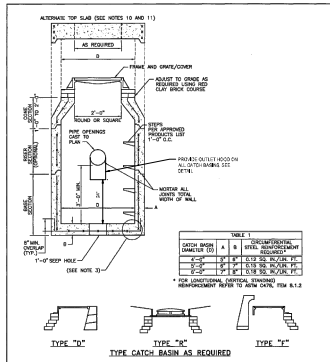
**NOTE:** SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.

|   |              |                        |
|---|--------------|------------------------|
| RHODE ISLAND DEPARTMENT OF TRANSPORTATION |              | R.I. STANDARD<br>4.2.1 |
| NO.                                       | DATE         |                        |
| PRECAST 5'-0" ROUND MANHOLE               |              |                        |
| NO.                                       | BY           | DATE                   |
| 1   | J. Ladage    | JUNE 15, 1998          |
| 2   | B. Blanchard | NOV 24, 1998           |



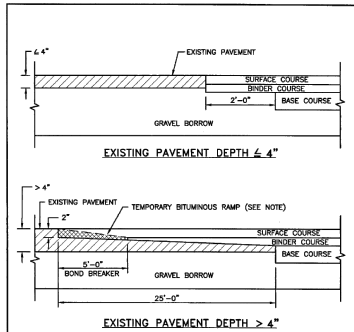
**NOTE:** SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.

|   |              |                        |
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| RHODE ISLAND DEPARTMENT OF TRANSPORTATION |              | R.I. STANDARD<br>4.2.2 |
| NO.                                       | DATE         |                        |
| PRECAST 6'-0" ROUND MANHOLE               |              |                        |
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| 2   | B. Blanchard | NOV 24, 1998           |



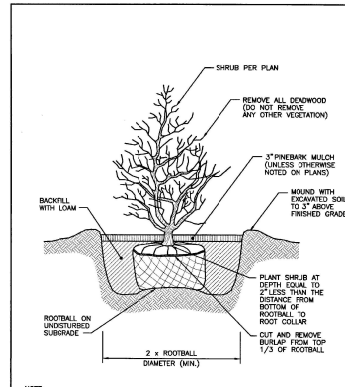
| NO. | BY           | DATE          |
|-----|--------------|---------------|
| 1   | J. Ladage    | JUNE 15, 1998 |
| 2   | B. Blanchard | NOV 24, 1998  |

|  |              |                           |
|--|--------------|---------------------------|
| RHODE ISLAND DEPARTMENT OF TRANSPORTATION        |              | R.I. STANDARD<br>4.4.2(a) |
| NO.  | DATE         |                           |
| PRECAST 4'-0", 5'-0", OR 6'-0" ROUND CATCH BASIN |              |                           |
| NO.  | BY           | DATE                      |
| 1  | J. Ladage    | JUNE 15, 1998             |
| 2  | B. Blanchard | NOV 24, 1998              |



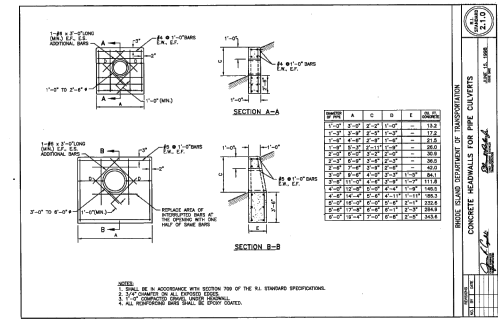
**NOTE:** A BOND BREAKER (FAPED OR EQUIVALENT) WILL BE PLACED 3'-0" FROM THE JOINT AND COVERED WITH THE BINDER COURSE AS THE TEMPORARY RAMP. PRIOR TO PLACING THE SURFACE COURSE, THE BINDER COURSE AND BOND BREAKER WILL BE REMOVED.

|   |              |                         |
|---|--------------|-------------------------|
| RHODE ISLAND DEPARTMENT OF TRANSPORTATION |              | R.I. STANDARD<br>47.1.1 |
| NO.                                       | DATE         |                         |
| TRANSVERSE PAVEMENT CUT AND MATCH         |              |                         |
| NO.                                       | BY           | DATE                    |
| 1   | J. Ladage    | JUNE 15, 1998           |
| 2   | B. Blanchard | NOV 24, 1998            |



**NOTE:** SHALL BE IN ACCORDANCE WITH SECTION 1.06 OF THE R.I. STANDARD SPECIFICATIONS.

|   |              |                         |
|---|--------------|-------------------------|
| RHODE ISLAND DEPARTMENT OF TRANSPORTATION |              | R.I. STANDARD<br>50.3.0 |
| NO.                                       | DATE         |                         |
| BALL AND BURLAP SHRUB PLANTING DETAIL     |              |                         |
| NO.                                       | BY           | DATE                    |
| 1   | J. Ladage    | JUNE 15, 1998           |
| 2   | B. Blanchard | NOV 24, 1998            |



**RECEIVED**  
**MARCH 4, 2022**  
**COASTAL RESOURCES**  
**MANAGEMENT COUNCIL**



|              |   |                       |                                   |  |   |  |   |                            |
|--------------|---|-----------------------|-----------------------------------|--|---|--|---|----------------------------|
| SCALE        | WARNING   | DESIGNED: C.J.M./D.W. | PERMIT SUBMISSION - MARCH 4, 2022 |  | NARRAGANSETT BAY COMMISSION<br>PHASE III COMBINED SEWER<br>OVERFLOW PROGRAM | NBC CONTRACT NO. 308.01C   | CIVIL<br>PHASE III COMBINED SEWER OVERFLOW PROGRAM<br>PAWTUCKET TUNNEL - CONSTRUCTION MATERIAL REUSE - BUCKLIN POINT<br>DETAILS NO. 4 | SHEET<br>C-32<br>195130227 |
| NOT TO SCALE | IF THIS BAR DOES NOT MEASURE THEN DRAWING IS NOT TO SCALE | DRAWN: R.B.J.         | CHECKED: B.B.                     |  | NOT FOR CONSTRUCTION  | This document is an interim document and not suitable for construction. As an interim document, it may contain data that is potentially inaccurate or incomplete and is not to be relied upon without the express written consent of the preparer. |   |                            |