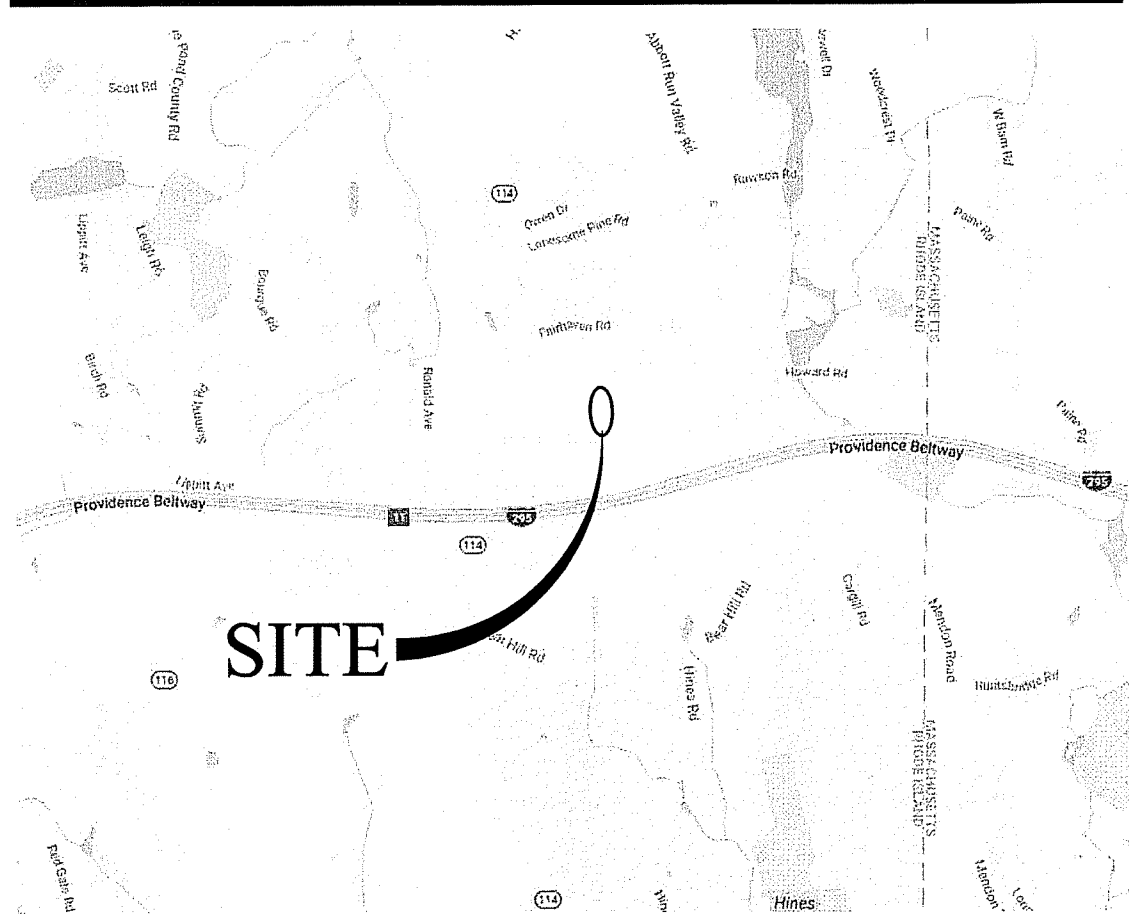
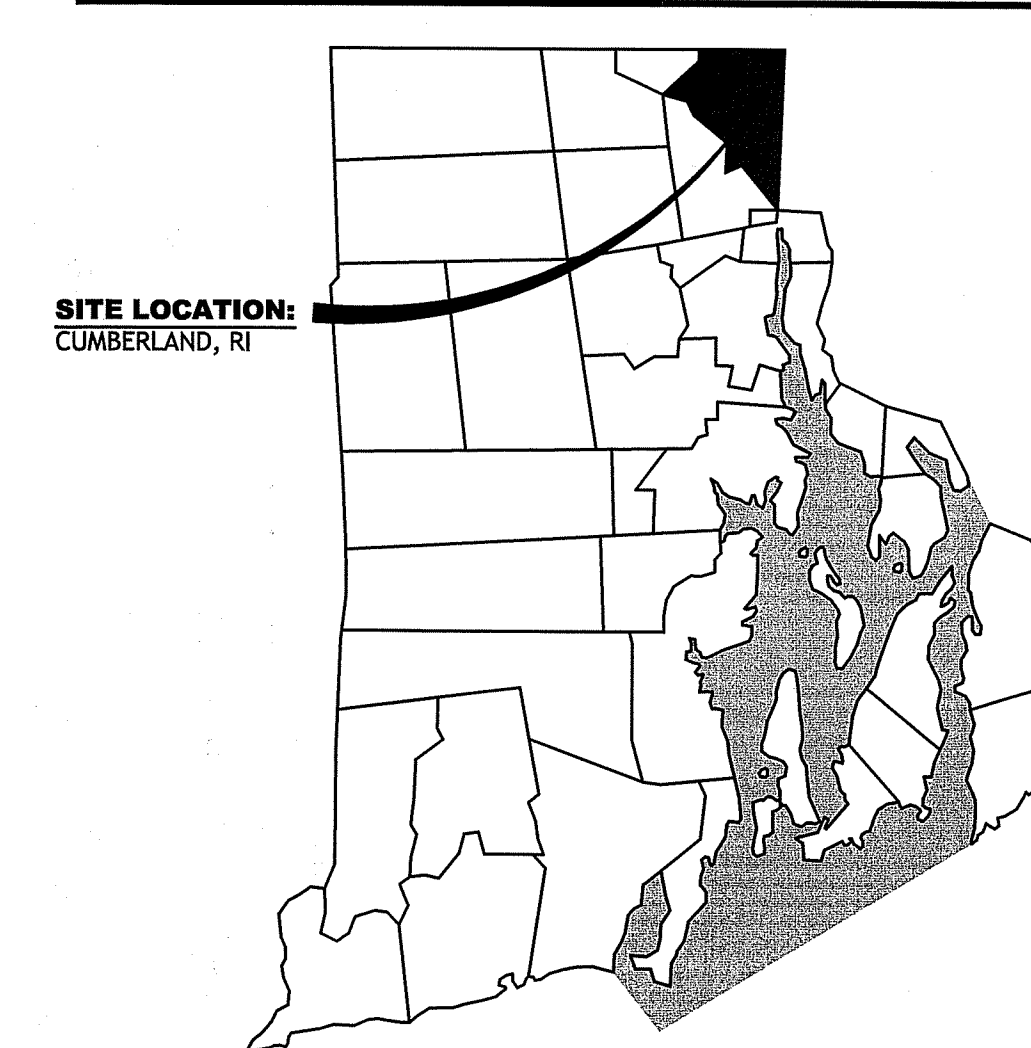


LOCUS MAP (NOT TO SCALE)



STATE WIDE MAP



PERMIT CONSTRUCTION SITE PLANS FOR

PROPOSED FedEx TERMINAL IMPROVEMENTS

MAJOR LAND DEVELOPMENT AND ADMINISTRATIVE SUBDIVISION

AP 24, LOT 296, 289 AND 331 - PARCEL A

60 AND 70 INDUSTRIAL ROAD CUMBERLAND, RHODE ISLAND

ZONING DISTRICT - I-1 AND I-2 (INDUSTRIAL-1 AND 2)

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TOWN OF CUMBERLAND PLANNING BOARD
MASTER PLAN APPROVAL RECEIVED: FEBRUARY 22, 2017
PRELIMINARY PLAN APPROVAL RECEIVED: JULY 26, 2017

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED OCT 03 2019 FILE # 17-0253
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Jonathan D. Wenzel

PROJECT TEAM

OWNER: DEAN LEASING CORPORATION
C/O BRAD DEAN
70 INDUSTRIAL ROAD
CUMBERLAND, RI 02864
PHONE: (401) 301-9115

CIVIL: D'AMICO ENGINEERING TECHNOLOGY, INC.
2080 MINERAL SPRING AVE.
NORTH PROVIDENCE, RI 02911
PHONE: (401) 622-1470
FAX: (401) 709-0201

SURVEYOR: MARC N. NYBERG ASSOCIATES, INC
501 GREAT ROAD, UNIT 104
NORTH SMITHFIELD, RI 02896
(401) 762-2870
(401) 762-2871

**PROPOSED FedEx TERMINAL
IMPROVEMENTS
60 AND 70 INDUSTRIAL ROAD
CUMBERLAND, RHODE ISLAND
AP 24, LOTS 296, 289 AND 331**

REVISIONS:

| NO. | DATE | DESCRIPTION |
|-----|----------|----------------------------|
| 1 | 8-17-17 | APPL. TO ALTER FWL |
| 2 | 1-24-18 | RIDEM COMMENTS OF 12-1-17 |
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DESIGNED BY: DMD
DRAWN BY:
CHECKED BY: DMD
DATE: AUG. 22, 2018
PROJECT NO: 15-0001-09

PERMIT PLANS

COVER SHEET

SHEET 1 OF 11

C1.0

PLAN FOR NOTICE

Detec.
D'AMICO ENGINEERING TECHNOLOGY, INC.
Civil - Transportation - Land Use
2080 Mineral Spring Ave., North Providence, RI 02911
(401) 622-1470 (401) 363-1100 fax www.damicoengtec.com

DAVID M. D'AMICO
No. 0749
REGISTERED PROFESSIONAL ENGINEER
CIVIL
5/11/19

GENERAL NOTES:

1. THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND HAVE BEEN PLOTTED FROM THE LATEST AVAILABLE INFORMATION. THE UTILITY LOCATIONS ARE APPROXIMATE AND MAY NOT BE ALL INCLUSIVE. THE CONTRACTOR SHALL CHECK AND VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, BOTH OVERHEAD AND UNDERGROUND, AND "DIG-SAFE" MUST BE NOTIFIED PRIOR TO COMMENCING ANY CONSTRUCTION OPERATIONS. RESTORATION AND REPAIR OF DAMAGE TO EXISTING UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR WITH NO ADDITIONAL COST TO THE OWNER. NO EXCAVATION SHALL COMMENCE UNTIL ALL INVOLVED UTILITY COMPANIES AND/OR CITY WHOSE FACILITIES MIGHT BE AFFECTED BY ANY WORK TO BE PERFORMED BY THE CONTRACTOR ARE NOTIFIED AT LEAST 72 HOURS IN ADVANCE.

SITE NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND LEGALLY DISPOSING (R&D) OF ALL MATERIALS INDICATED ON THE PLANS.
2. STOCKPILES OF EARTH MATERIALS SHALL NOT BE LOCATED ADJACENT TO DRAINAGE STRUCTURES.
3. ALL DISTURBED AREAS OUTSIDE OF THE PAVED AREAS WILL RECEIVE A MINIMUM OF 6" OF LOAM AND SEED.
4. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SURVEY LAYOUT SERVICES FOR THE WORK AND SHALL SUBMIT "AS-BUILT" DRAWINGS OF ALL WORK, WHICH SHALL BE STAMPED AND CERTIFIED BY A RHODE ISLAND REGISTERED PROFESSIONAL LAND SURVEYOR.
5. ANY ITEM OF WORK NOT SPECIFICALLY INDICATED ON THE PLANS BUT IS REQUIRED FOR THE COMPLETE CONSTRUCTION OF THE PROJECT WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND INCLUDED IN THE CONTRACT BID PRICE. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING SITE CONDITIONS.
6. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR ACTUAL SIZE OF THE PROPOSED BUILDING.
7. WHERE NECESSARY TO REMOVE CURBS, CATCH BASINS OR DRAINS TO COMPLETE WORK, THE CONTRACTOR SHALL REPLACE SUCH ITEMS TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER.
8. ANY EXISTING PIPE OR UTILITY DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR AT NO COST TO THE OWNER OR ENGINEER.
9. THE CONTRACTOR SHALL RESTORE TO ITS ORIGINAL CONDITION OR REPLACE TREES, SHRUBS, FENCES, SIGNS, GUARDRAILS, DRIVEWAYS, SIDEWALKS AND ANY OTHER OBJECT AFFECTED BY THIS OPERATION.
10. THE TOPS OF ALL VALVE BOXES AND CURB BOXES SHALL BE FLUSH WITH GROUND OR PAVEMENT SURFACE LEVEL AND PLUMB, UNLESS OTHERWISE DIRECTED.
11. ROADWAYS SHALL BE LEFT PASSABLE AT ALL TIMES. CLOSURE OF ROADWAY IS NOT PERMITTED.
12. THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL DRIVEWAYS AT COMPLETION OF EACH DAYS WORK.
13. WATER SERVICE SHALL BE MAINTAINED AT ALL TIMES.
14. ALL LEDGE TO BE REMOVED BY MECHANICAL MEANS.
15. ALL CONSTRUCTION WORK SHALL BE PERFORMED IN THE DRY. THE CONTRACTOR SHALL PROVIDE, OPERATE AND MAINTAIN ALL PUMPS, DRAINS, WET POINTS, SCREENS, OR OTHER FACILITIES NECESSARY TO CONTROL, COLLECT AND DISPOSE OF ALL SURFACE AND SUBSURFACE WATER ENCOUNTERED IN THE PERFORMANCE OF THE WORK.
16. REFER TO PLUMBING PLANS FOR CONTINUATION OF ALL UTILITIES WITHIN 5' (FIVE) FEET OF THE BUILDING.
17. ALL SITE WORK, INCLUDING BUT NOT LIMITED TO, BITUMINOUS PAVEMENT, ROADWAY CONSTRUCTION, AGGREGATE MATERIALS, DRAINAGE STRUCTURES, CURBING, SIDEWALK, LANDSCAPING, SAW CUTTING, ETC. SHALL CONFORM TO THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION, 2010 EDITION (WITH LATEST ADDENDA) AND THE RIDOT STANDARD DETAILS, 1998 EDITION (WITH LATEST ADDENDA).

MISCELLANEOUS UTILITY NOTES:

1. PRIOR TO CONSTRUCTION ALL POTENTIAL UTILITY/DRAINAGE CONFLICTS MUST BE IDENTIFIED BY THE CONTRACTOR. ANY MODIFICATIONS TO THE PROPOSED UTILITIES TO AVOID CONFLICTS MUST BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION. NO EXTRA PAYMENT TO THE CONTRACTOR DUE TO RELOCATION'S WILL BE AUTHORIZED.
2. THE UTILITY PLAN DOES NOT DEPICT THE NECESSARY ELECTRICAL CONDUIT/WIRING TO SERVICE THE PROPOSED LIGHTING AND SIGNS, WHICH WILL BE PERFORMED BY THE CONTRACTOR FOR NO ADDITIONAL COST.
3. OVERHEAD ELECTRIC AND TELEPHONE SERVICES ARE TO BE REMOVED BY THE APPROPRIATE UTILITY COMPANY AND COORDINATED BY THE CONTRACTOR.
4. THE CONTRACTOR SHALL AT ALL TIMES PROVIDE A SUFFICIENT NUMBER OF WORKMEN AND GUARDS AS MAY BE NECESSARY TO PROPERLY SAFEGUARD THE PUBLIC FROM THERE OPERATIONS.
5. THE CONTRACTOR SHALL TAKE PRECAUTIONS AGAINST DAMAGING OF PAVING, SIDEWALKS, UTILITIES, OR PRIVATE PROPERTIES AND SHALL PROMPTLY REPAIR AT HIS OWN EXPENSE ANY DAMAGE TO SUCH PAVING, SIDEWALKS, UTILITIES, OR PRIVATE PROPERTIES TO THE SATISFACTION OF THE OWNER OR TOWN.
6. EXISTING UTILITY FRAMES AND COVERS FOR SANITARY SEWER, WATER, GAS, STORM DRAINAGE AND OTHER UTILITIES SHALL BE ADJUSTED TO GRADE AS REQUIRED IN NEW PAVING AND PAVEMENT OVERLAY AREAS.

DRAINAGE SYSTEM NOTES:

1. ALL RIM ELEVATIONS SHOWN ARE APPROXIMATE AND ARE TO BE SET FLUSH WITH FINAL GRADES
2. THE DESIGN ENGINEER MUST SUBMIT AN AS BUILT PLAN AND A CERTIFICATION TO THE TOWN ENGINEER THAT THE CONSTRUCTION IS IN COMPLIANCE WITH THE DESIGN PLANS FOR ALL ELEMENTS OF THE STORM OR DRAINAGE SYSTEM PRIOR TO THE ISSUANCE OF THE CERTIFICATE OF OCCUPANCY.

**PROPOSED PAVEMENT STRUCTURE:
PERVIOUS PAVEMENT (PAVEMENT TYPE A)**

(SEE DETAIL PLANS FOR PERVIOUS PAVEMENT MAKEUP)

**PROPOSED PAVEMENT STRUCTURE:
TOWN/NON-PERVIOUS (PAVEMENT TYPE B)**

- 1.5" MODIFIED CLASS 12.5 HMA
- 2.5" CLASS 19 HMA
- 12" GRAVEL BORROW SUBBASE COURSE

ASPHALT EMULSION TACK COAT BETWEEN HMA LAYERS AND ON VERTICAL FACES.

LAYOUT NOTE:

THE LAYOUT SHOWN REPRESENTS A GRAPHICAL DESIGN, AND PRIOR TO THE CONSTRUCTION, THE CONTRACTOR SHALL ENGAGE A PROFESSIONAL LAND SURVEYOR (PLS) REGISTERED IN THE STATE OF RHODE ISLAND TO SET AND VERIFY ALL LINES AND GRADES. ALL EXISTING UTILITY LOCATIONS AND ELEVATIONS ARE TO BE CONFIRMED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY ITEMS FOUND WHICH DO NOT MATCH THE PLANS MUST BE BROUGHT TO THE ENGINEERS ATTENTION PRIOR TO CONSTRUCTION FOR REVIEW. NO WORK SHALL PROCEED UNTIL AUTHORIZED BY THE ENGINEER.

MAINTENANCE AND PROTECTION OF TRAFFIC NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE AND PROTECTION OF PEDESTRIAN AND VEHICULAR TRAFFIC INCLUDING POLICE PROTECTION. ALL TEMPORARY AND VEHICULAR SIGNS, BARRICADES AND LANE CLOSURES SHALL BE IN CONFORMANCE WITH THE LATEST REVISIONS OF MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.), 2009 EDITION, INCLUDING ALL REVISIONS.
2. TEMPORARY CONSTRUCTION SIGNS AND ALL APPLICABLE TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF WORK IN ANY AREA OPEN TO TRAFFIC.
3. THE PRIVATE VEHICLES OF CONSTRUCTION WORKERS SHALL NOT BE PARKED IN THE STATE OR TOWN RIGHT-OF-WAY.
4. ALL MAINTENANCE AND PROTECTION OF TRAFFIC CONTROL SETUPS, SIGNS CHANNELING DEVICES, ETC. SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. 1988 EDITION. INCLUDING REVISION 3, SEPTEMBER 3, 1993 AND SUBSEQUENT ADDENDA.
5. SIGN MOUNTINGS SHALL BE IN ACCORDANCE WITH THE R.I.D.O.T. SPECIFICATIONS FOR TEMPORARY CONSTRUCTION SIGNS.

DRAINAGE AND SUBSURFACE DRAINAGE SYSTEM MAINTENANCE SCHEDULE:

UPON PROJECT COMPLETION, THE PROPERTY OWNER SHALL ADHERE TO THE FOLLOWING MAINTENANCE PLAN AND SCHEDULE:

1. CATCH BASINS, MANHOLES AND DRAIN LINES: AN INSPECTION MUST OCCUR ON AN ANNUAL BASIS BY QUALIFIED PERSONAL TO ENSURE PROPER OPERATION. ANY DEFICIENCY NOTED DURING THE INSPECTION WILL BE IMMEDIATELY REPAIRED OR REPLACED. THE INSPECTION SHOULD, AS A MINIMUM, CONCENTRATE ON THE FOLLOWING:
 - * DAMAGE TO GRATE/ COVERS
 - * EVIDENCE OF STANDING WATER
 - * DEBRIS REMOVAL
 - * STRUCTURAL ALIGNMENT/ INTEGRITY
 - * OIL/WATER SEPARATORS
2. IF SEDIMENT OR ORGANIC DEBRIS BUILD-UP HAS LIMITED THE INFILTRATION CAPABILITIES OF THE UNDERGROUND INFILTRATION CHAMBERS OR TRENCHES TO BELOW THE DESIGN RATE THE SYSTEM MUST BE REMOVED AND RE-CONSTRUCTED. THE SYSTEMS BOTTOM SHOULD BE RESTORED ACCORDING TO ORIGINAL DESIGN SPECIFICATIONS.
3. SEDIMENT REMOVAL: ALL REMOVED SEDIMENT IS TO BE TESTED TO DETERMINE POLLUTANT CONTENT. THE SEDIMENT IS TO BE PROPERLY DISPOSED IN UPLAND AREAS BASED UPON THE TEST RESULTS AND LOCAL, STATE, AND FEDERAL REGULATIONS.
4. THE PROPERTY OWNER IS RESPONSIBLE FOR ANY SOIL AND GROUNDWATER CONTAMINATION RESULTING FROM THE USE OF THE STORMWATER RUNOFF SUBSURFACE DRAINAGE SYSTEM.

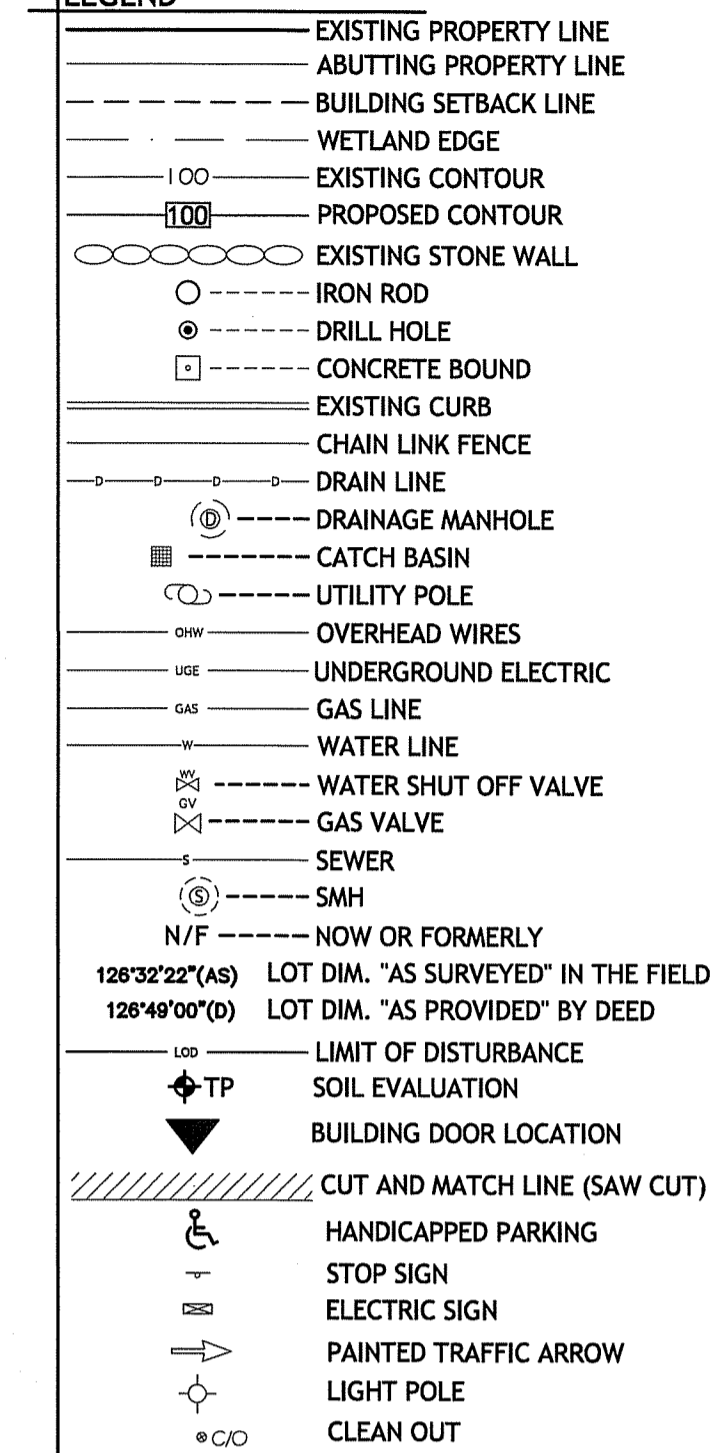
WATER NOTES:

1. ALL INSTALLATIONS, JOINTS, CONSTRUCTION METHODS AND MATERIALS SHALL BE ACCORDING TO THE CUMBERLAND WATER DEPARTMENT REQUIREMENTS, AWWA STANDARDS AND GOVERNMENTAL REQUIREMENTS.
2. INSTALLATION OF ALL WATER CONVEYANCES, MAINS, PIPES OR LINES SHALL BE IN ACCORDANCE WITH THE DUCTILE IRON PIPE RESEARCH ASSOCIATION'S INSTALLATION MANUAL AND ANSI/AWWA C600 AND ALL OTHER REQUIREMENTS OF THE CUMBERLAND WATER DEPARTMENT.
3. WATER PIPES SHALL TYPICALLY BE LOCATED AT LEAST TEN (10) FEET HORIZONTALLY FROM SEWER PIPES, AND AT A MINIMUM DEPTH OF COVER EQUAL TO 4'-6". WHERE A NEW WATER PIPE IS LESS THAN 18 INCHES CLEAR DISTANCE ABOVE A SEWER OR WHERE A WATER PIPE PASSES BENEATH A SEWER OR STORM DRAIN, ENCASE THE SEWER OR DRAIN IN 6" OF CONCRETE FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE CROSSING WATER PIPE.
4. ALL SYSTEM COMPONENTS AND CONSTRUCTION METHODS; SUCH AS PIPE, THRUST BLOCKS, FITTINGS, CASTINGS, ETC. SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO PURCHASE AND INSTALLATION. THIS SUBMISSION SHALL INCLUDE MANUFACTURER'S LITERATURE, SHOP DRAWINGS, PROPOSED CONSTRUCTION METHODS, ETC.
5. WATER LINE TRENCH TO BE AWWA TYPE 5 A METALIZED DETECTABLE IDENTIFICATION TAPE 2" IN WIDTH, BLUE IN COLOR AND PRINTED WITH "CAUTION WATERLINE BURIED BELOW" SHALL BE UTILIZED OVER ALL MAINS. TAPE SHALL BE SET AT APPROXIMATELY 1' BELOW FINISHED GRADE.
6. THE CONTRACTOR SHALL RECEIVE VERIFICATION FROM THE ENGINEER AS TO THE APPROPRIATE SIZE OF THE DOMESTIC WATER AND FIRE PROTECTION LINE SHOWN ON THE PLANS PRIOR TO ORDERING WATER PIPE RELATED ITEMS.
7. ALL SITE WORK, INCLUDING BUT NOT LIMITED TO, BITUMINOUS PAVEMENT, GRAVEL, STONE, DRAINAGE PIPE AND RELATED STRUCTURES, WATER, SEWER, AND DRAIN LINE INSTALLATION, PAVEMENT SAW CUTTING, ETC. SHALL CONFORM TO THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION AMENDED AUGUST 2013 WITH ALL REVISIONS AND LATEST ADDENDA. STANDARD DETAILS FOR THIS WORK ARE RI STANDARD DETAILS 1998 EDITION WITH ALL REVISIONS.
8. SPECIFIC BENDS ARE SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL PROVIDE ADDITIONAL BENDS AS NECESSARY TO INSTALL THE PIPE AT THE REQUIRED DEPTH AND ALIGNMENT.
9. INSPECTION OF ALL INSTALLATIONS SHALL BE CONDUCTED TO ENSURE COMPLIANCE WITH THE RULES AND REGULATIONS OF THE CUMBERLAND WATER DEPARTMENT. CUMBERLAND WATER EMPLOYEES SHALL BE GIVEN FULL ACCESS TO THE PROJECT AT ALL TIMES FOR INSPECTION OR OBSERVATION OF CONSTRUCTION IN PROGRESS AS DEEMED NECESSARY BY THE AUTHORITY. FAILURE TO CONSTRUCT THE NEW EXTENSION OF THE SYSTEM AS PER THE APPROVED DESIGN DRAWINGS OR CUMBERLAND WATER DEPARTMENT'S RULES AND REGULATIONS WILL CAUSE IMMEDIATE CESSATION OF ALL CONSTRUCTION WORK. INSPECTION FEES MUST BE PAID IN FULL PRIOR TO COMMENCING INSTALLATION WORK.

RIDOT

1. ALL WORK TO BE DONE WITHIN THE STATE RIGHT-OF-WAY SHALL CONFORM TO THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION AMENDED AUGUST 2013 WITH ALL REVISIONS AND LATEST ADDENDA. STANDARD DETAILS FOR THIS WORK ARE RI STANDARD DETAILS 1998 EDITION WITH ALL REVISIONS.
2. A SEPARATE RIDOT UTILITY PERMIT APPLICATION AND APPROVAL IS REQUIRED FOR ANY UTILITY WORK (INCLUDING SEWER, WATER, GAS, ELECTRIC, ETC.) WITHIN THE STATE RIGHT-OF-WAY TO BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

LEGEND:



Detec
D'AMICO ENGINEERING TECHNOLOGY, INC.
Civil Transportation - Land Use
2080 Mineral Spring Ave., North Providence, RI 02911
(401) 882-4170 (401) 353-1100 fax www.damicoeng.com

DAVID M. D'AMICO
REGISTERED PROFESSIONAL ENGINEER CIVIL
5/11/19

PROPOSED FedEx TERMINAL IMPROVEMENTS
60 AND 70 INDUSTRIAL ROAD
CUMBERLAND, RHODE ISLAND
AP 24, LOTS 296, 289 AND 331

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED **OCT 03 2018** FILE # **17-0253**
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Christopher D. Wenzel

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DESIGNED BY: DMD
DRAWN BY: DMD
CHECKED BY: DMD
DATE: AUG. 22, 2018
PROJECT NO: 15-0001-09

PERMIT PLANS

GENERAL NOTES AND LEGEND

C1.1

NOTES:

1. INFORMATION BASED ON DETEC PROVIDED ON THIS EXISTING CONDITIONS PLAN IS TO AUGMENT THE BASE SURVEY FOR PERMITTING AND DESIGN WITH THE ADDITION OF SITE SPECIFIC FEATURES AND SITE UTILITIES TAKEN FROM RECORDS AND SITE ON-THE-GROUND MEASUREMENTS. THE PE STAMP IS AFFIXED FOR THIS INFORMATION ONLY.
2. DEMOLITION INFORMATION DEVELOPED BY DETEC.
3. BASED ON FEMA FLOOD INSURANCE RATE MAP (FIRM) FOR THE TOWN OF CUMBERLAND, COMMUNITY-PANEL NUMBER 0185G, MAP NUMBER 44007C0185G EFFECTIVE DATE MARCH 2, 2009, THE SITE IS LOCATED IN ZONE "X" AND OUTSIDE FLOOD ZONES "A", "AE", "AH OR AO" OTHER AREAS (AREAS DETERMINED TO BE INSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN).
4. DEPICTED WETLAND EDGE FLAGS A6 - A18 HAVE NOT BEEN VERIFIED AS PART OF THIS APPLICATION.

NOTE:

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OFFICE OF WATER RESOURCES
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(401) 622-1470 (401) 932-1190 fax www.damicoengr.com

DAVID M. D'AMICO
REGISTERED PROFESSIONAL ENGINEER CIVIL
5/11/19

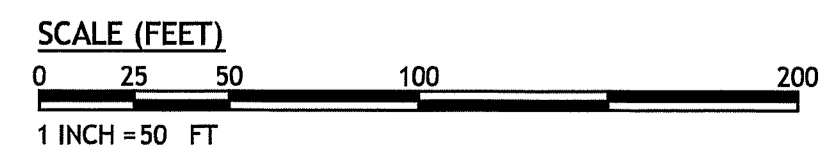
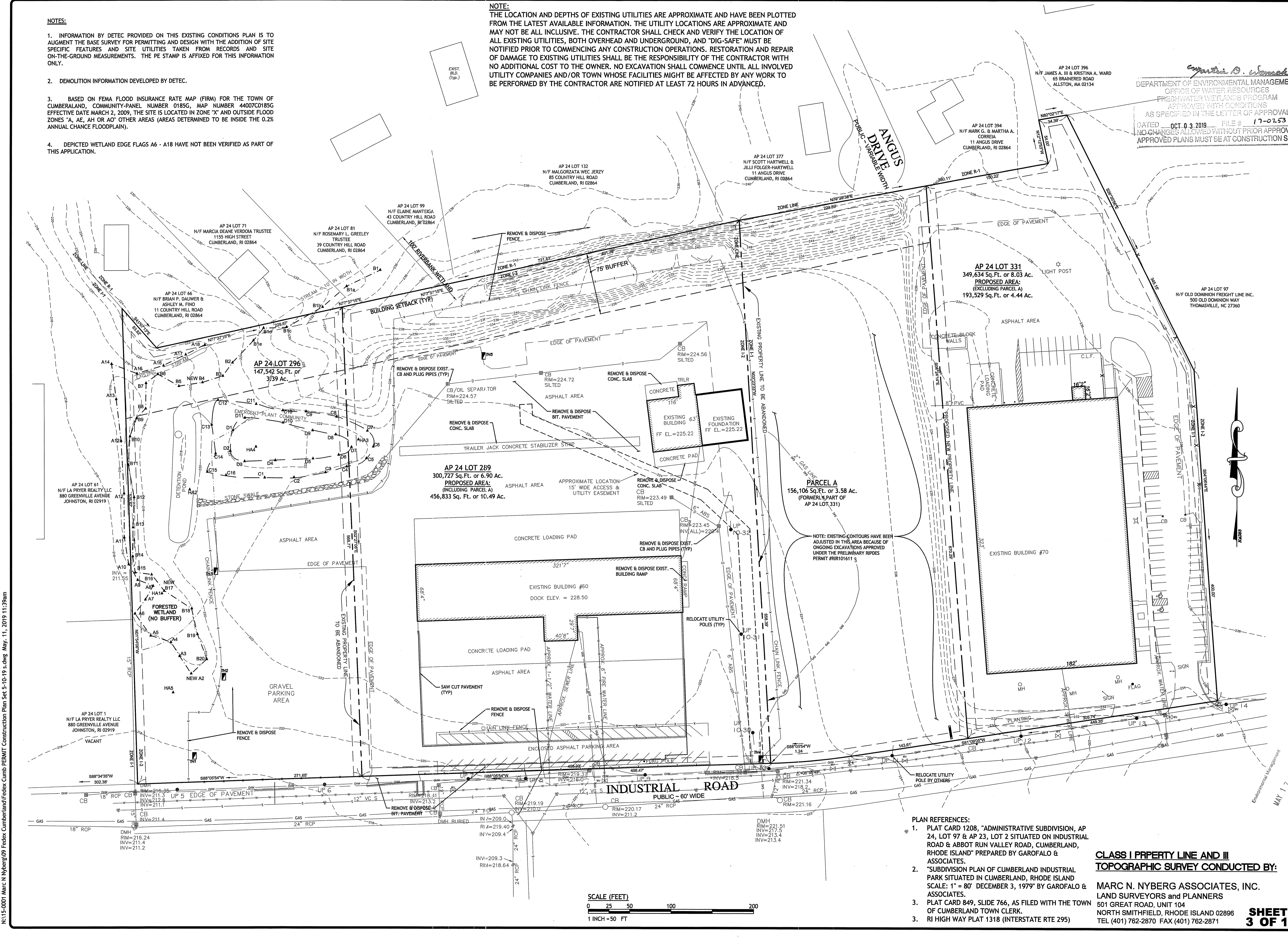
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60 AND 70 INDUSTRIAL ROAD
CUMBERLAND, RHODE ISLAND
AP 24, LOTS 296, 289 AND 331

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DESIGNED BY: DMD
DRAWN BY: DMD
CHECKED BY: DMD
DATE: AUG. 22, 2018
PROJECT NO: 15-0001-09

PERMIT PLANS
EXISTING CONDITIONS AND DEMO PLAN
C2.0



- PLAN REFERENCES:**
1. PLAT CARD 1208, "ADMINISTRATIVE SUBDIVISION, AP 24, LOT 97 & AP 23, LOT 2 SITUATED ON INDUSTRIAL ROAD & ABBOT RUN VALLEY ROAD, CUMBERLAND, RHODE ISLAND" PREPARED BY GAROFALO & ASSOCIATES.
 2. "SUBDIVISION PLAN OF CUMBERLAND INDUSTRIAL PARK SITUATED IN CUMBERLAND, RHODE ISLAND SCALE: 1" = 80' DECEMBER 3, 1979" BY GAROFALO & ASSOCIATES.
 3. PLAT CARD 849, SLIDE 766, AS FILED WITH THE TOWN OF CUMBERLAND TOWN CLERK.
 3. RI HIGH WAY PLAT 1318 (INTERSTATE RTE 295)

CLASS I PROPERTY LINE AND III TOPOGRAPHIC SURVEY CONDUCTED BY:
MARC N. NYBERG ASSOCIATES, INC.
LAND SURVEYORS AND PLANNERS
501 GREAT ROAD, UNIT 104
NORTH SMITHFIELD, RHODE ISLAND 02886
TEL (401) 762-2870 FAX (401) 762-2871

M:\15-0001 Marc N Nyberg\09 FedEx Cumberland\FedEx_Cumb_PEMIT Construction Plan Set 5-10-19 5.dwg May. 11, 2019 11:39am

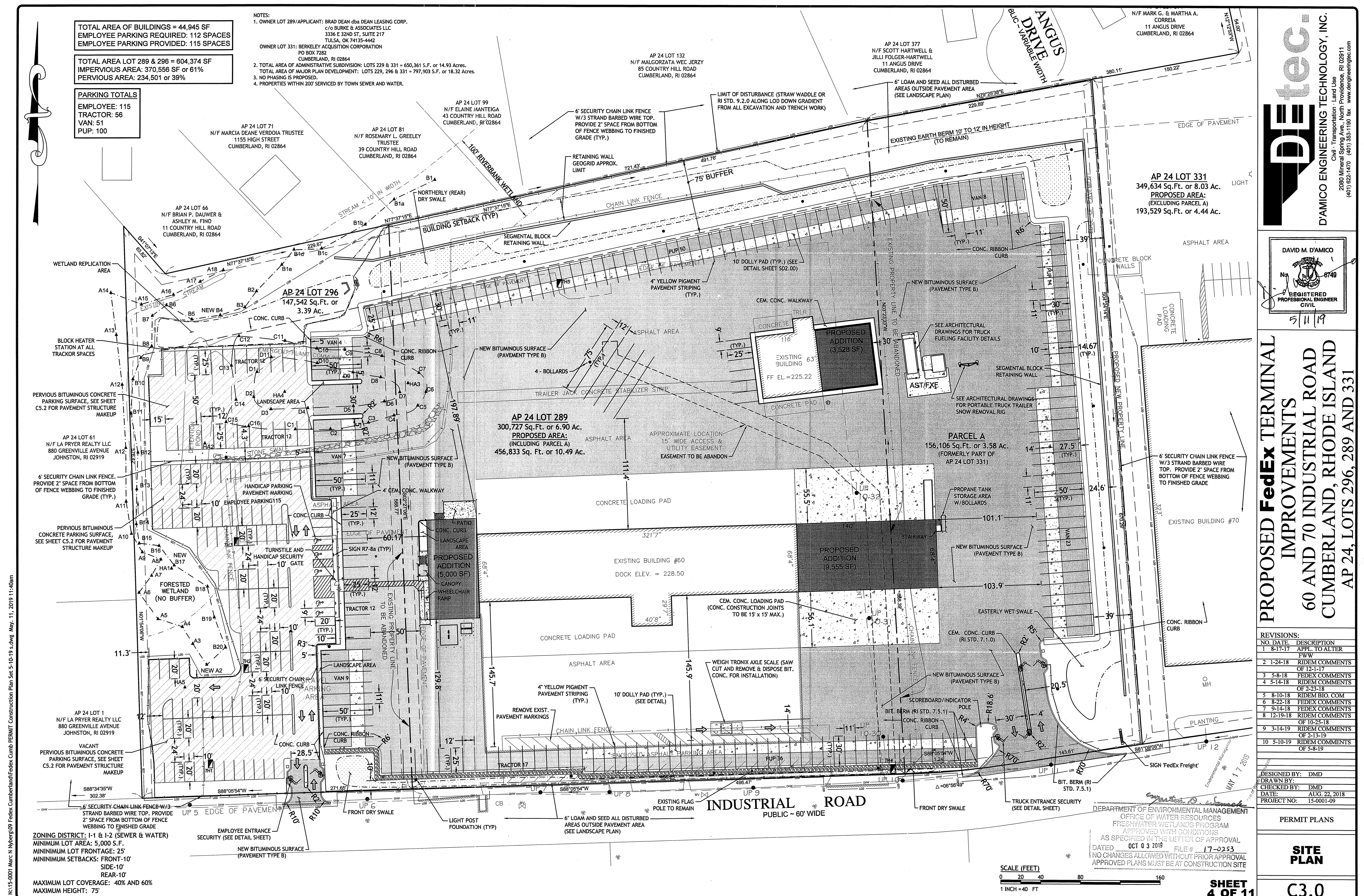
MAY 17 2019

TOTAL AREA OF BUILDINGS = 44,945 SF
 EMPLOYEE PARKING REQUIRED: 112 SPACES
 EMPLOYEE PARKING PROVIDED: 115 SPACES

TOTAL AREA LOT 289 & 296 = 604,374 SF
 IMPERVIOUS AREA: 370,556 SF or 61%
 PERVIOUS AREA: 234,501 or 39%

PARKING TOTALS
 EMPLOYEE: 115
 TRACTOR: 56
 VAN: 51
 PUP: 100

- NOTES:
 1. OWNER LOT 289/APPLICANT: BRAD DEAN dba DEAN LEASING CORP.
 c/o BURKE & ASSOCIATES LLC
 3336 E 32ND ST, SUITE 217
 TULSA, OK 74135-4442
 OWNER LOT 331: BERKELEY ACQUISITION CORPORATION
 PO BOX 7282
 CUMBERLAND, RI 02864
 2. TOTAL AREA OF ADMINISTRATIVE SUBDIVISION: LOTS 229 & 331 = 650,361 S.F. or 14.93 Acres.
 TOTAL AREA OF MAJOR PLAN DEVELOPMENT: LOTS 229, 296 & 331 = 797,903 S.F. or 18.32 Acres.
 3. NO PAVING IS PROPOSED.
 4. PROPERTIES WITHIN 200' SERVICED BY TOWN SEWER AND WATER.



Petec
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DAVID M. D'AMICO
 No. 6748
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL
 5/11/19

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60 AND 70 INDUSTRIAL ROAD
CUMBERLAND, RHODE ISLAND
AP 24, LOTS 296, 289 AND 331

REVISIONS:

| NO. | DATE | DESCRIPTION |
|-----|----------|----------------------------|
| 1 | 8-17-17 | APPL. TO ALTER F.W. |
| 2 | 1-24-18 | RIDEM COMMENTS OF 12-17 |
| 3 | 5-8-18 | FEDEX COMMENTS OF 2-23-18 |
| 4 | 5-14-18 | FEDEX COMMENTS OF 2-23-18 |
| 5 | 8-10-18 | RIDEM BIO. COM |
| 6 | 8-22-18 | FEDEX COMMENTS |
| 7 | 9-14-18 | FEDEX COMMENTS |
| 8 | 12-19-18 | RIDEM COMMENTS OF 10-25-18 |
| 9 | 3-14-19 | RIDEM COMMENTS OF 2-13-19 |
| 10 | 5-10-19 | RIDEM COMMENTS OF 5-8-19 |

DESIGNED BY: DMD
 DRAWN BY: DMD
 CHECKED BY: DMD
 DATE: AUG. 22, 2018
 PROJECT NO: 15-0001-09

PERMIT PLANS
SITE PLAN

SHEET 4 OF 11
C3.0

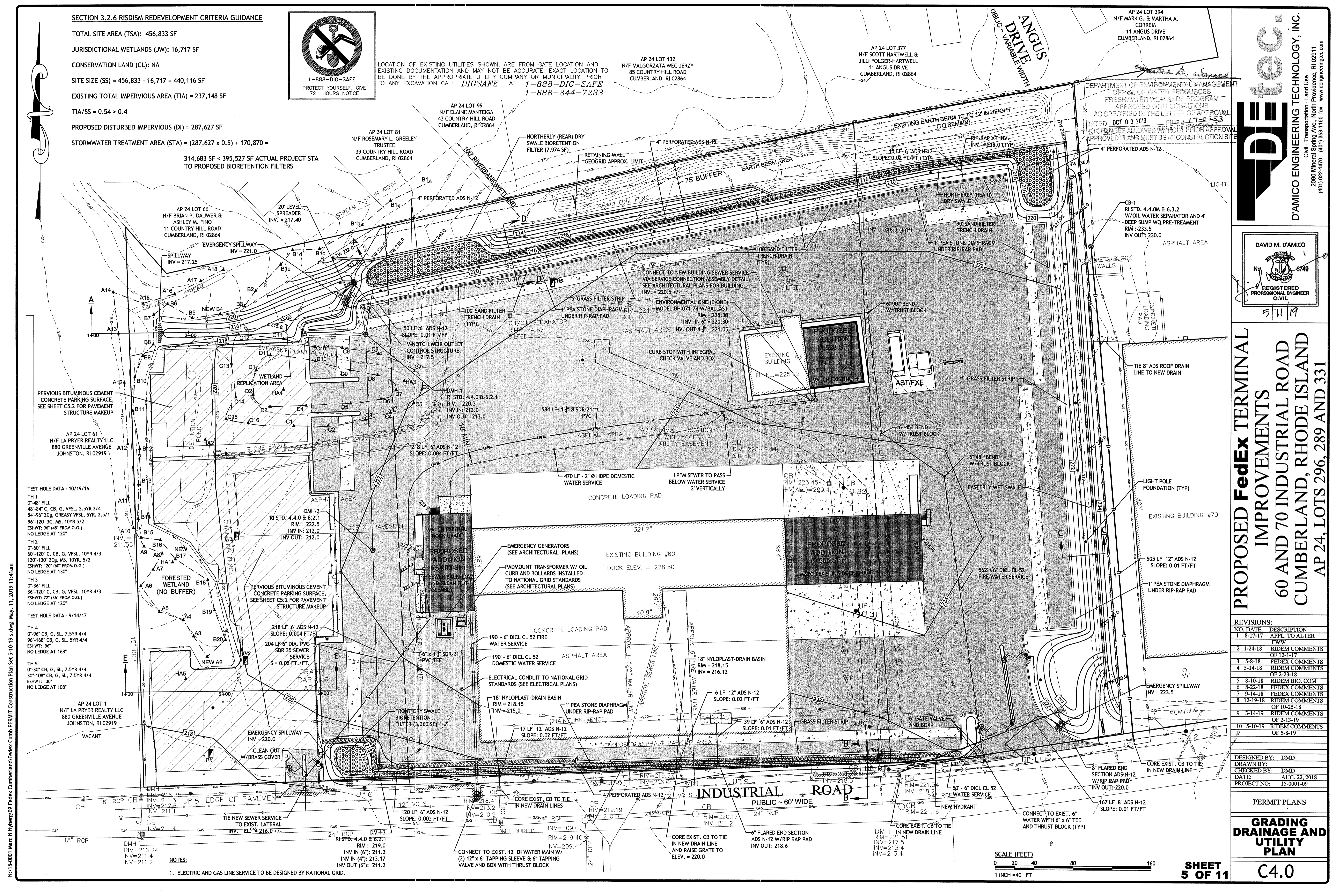
N:\15-0001-Marc N Nyberg\09-FedEx Cumberland\FedEx-Cumb PERMIT Construction Plan Set 5-10-19 5.dwg May. 11, 2019 11:40am

SECTION 3.2.6 RISIDM REDEVELOPMENT CRITERIA GUIDANCE

TOTAL SITE AREA (TSA): 456,833 SF
 JURISDICTIONAL WETLANDS (JW): 16,717 SF
 CONSERVATION LAND (CL): NA
 SITE SIZE (SS) = 456,833 - 16,717 = 440,116 SF
 EXISTING TOTAL IMPERVIOUS AREA (TIA) = 237,148 SF
 TIA/SS = 0.54 > 0.4
 PROPOSED DISTURBED IMPERVIOUS (DI) = 287,627 SF
 STORMWATER TREATMENT AREA (STA) = (287,627 x 0.5) + 170,870 = 314,683 SF < 395,527 SF ACTUAL PROJECT STA TO PROPOSED BIORETENTION FILTERS



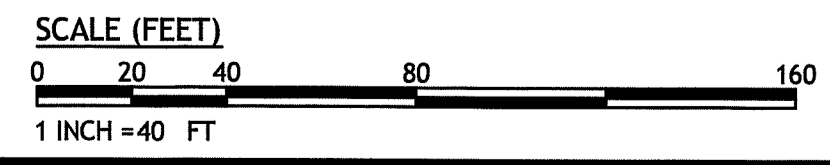
LOCATION OF EXISTING UTILITIES SHOWN, ARE FROM GATE LOCATION AND EXISTING DOCUMENTATION AND MAY NOT BE ACCURATE. EXACT LOCATION TO BE DONE BY THE APPROPRIATE UTILITY COMPANY OR MUNICIPALITY PRIOR TO ANY EXCAVATION CALL DIGSAFE AT 1-888-DIG-SAFE 1-888-344-7233



15-0001 Marc N. Noyes@09 Fedex Cumberland@Fedex Cumb PERMIT Construction Plan Set 5-10-19 5:40g May 11, 2019 11:41am

TEST HOLE DATA - 10/19/16
 TH 1
 0'-48" FILL
 48"-84" C, CB, G, VFSL, 2.5YR 3/4
 84"-96" 2G, GREASY VFSL, 5YR, 2.5/1
 96"-120" 3C, MS, 10YR 5/2
 ESHWT: 96" (48" FROM O.G.)
 NO LEDGE AT 120"
 TH 2
 0'-60" FILL
 60"-120" C, CB, G, VFSL, 10YR 4/3
 120"-130" 2G, MS, 10YR, 5/2
 ESHWT: 120" (60" FROM O.G.)
 NO LEDGE AT 130"
 TH 3
 0'-36" FILL
 36"-120" C, CB, G, VFSL, 10YR 4/3
 ESHWT: 72" (36" FROM O.G.)
 NO LEDGE AT 120"
 TH 4
 0'-96" CB, G, SL, 7.5YR 4/4
 96"-168" CB, G, SL, 5YR 4/4
 ESHWT: 96"
 NO LEDGE AT 168"
 TH 5
 0'-30" CB, G, SL, 7.5YR 4/4
 30"-108" CB, G, SL, 7.5YR 4/4
 ESHWT: 30"
 NO LEDGE AT 108"

NOTES:
 1. ELECTRIC AND GAS LINE SERVICE TO BE DESIGNED BY NATIONAL GRID.



PdteC
 D'AMICO ENGINEERING TECHNOLOGY, INC.
 Civil - Transportation - Land Use
 2080 Mineral Spring Ave., North Providence, RI 02811
 (401) 652-1470 (401) 353-1100 fax www.damicoeng.com

DAVID M. D'AMICO
 No. 0748
 REGISTERED PROFESSIONAL ENGINEER CIVIL
 5/11/19

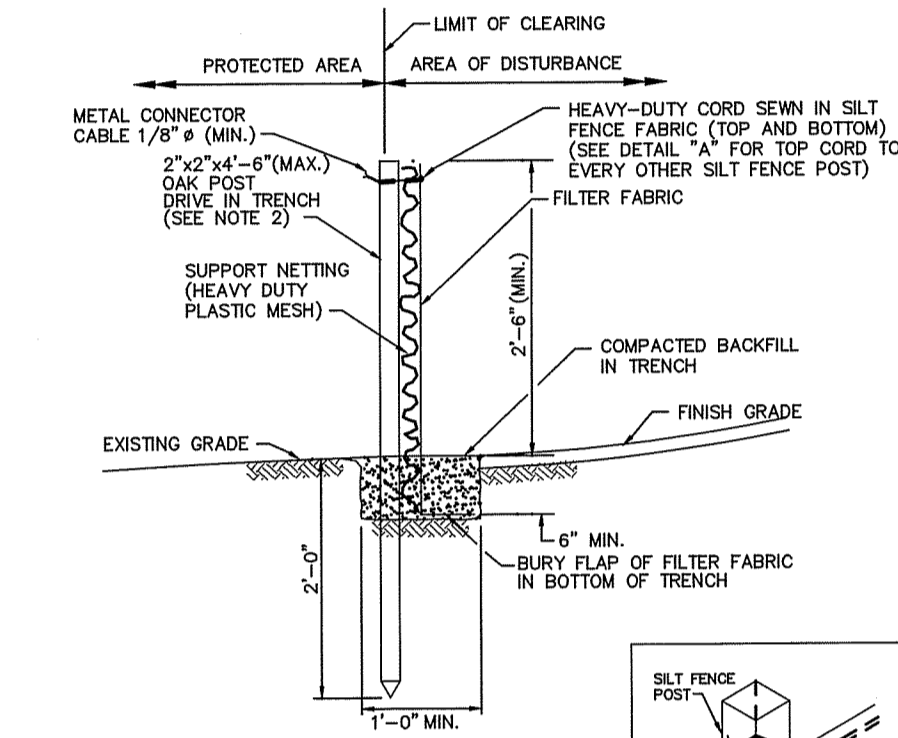
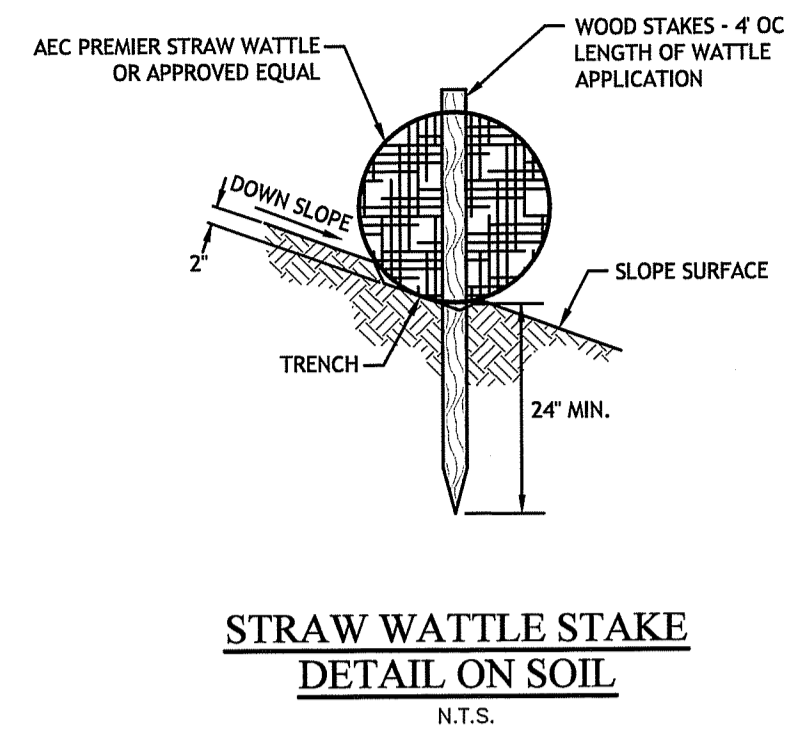
PROPOSED FedEx TERMINAL IMPROVEMENTS
60 AND 70 INDUSTRIAL ROAD
CUMBERLAND, RHODE ISLAND
AP 24, LOTS 296, 289 AND 331

REVISIONS:

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| 9 | 3-14-19 | RIDEM COMMENTS OF 2-13-19 |
| 10 | 5-10-19 | RIDEM COMMENTS OF 5-8-19 |

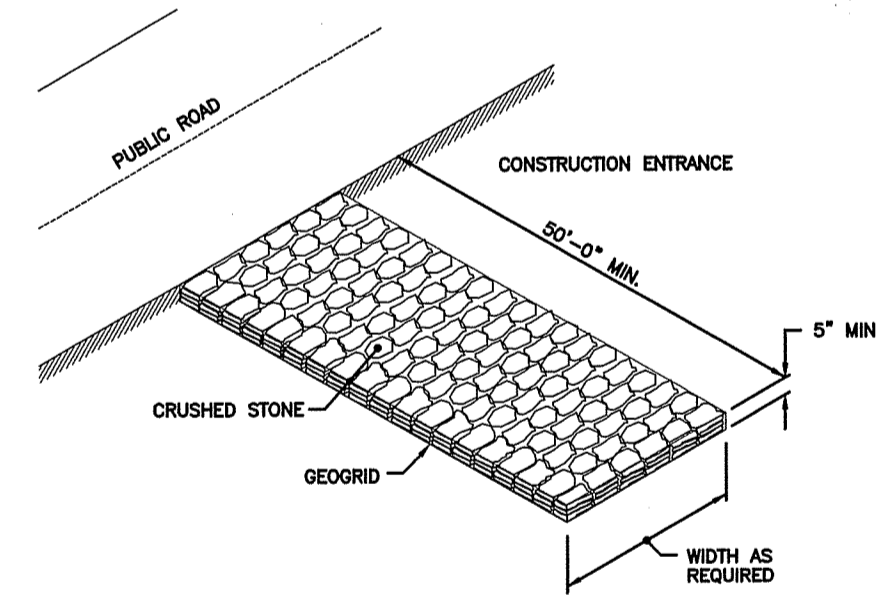
DESIGNED BY: DMD
 DRAWN BY: DMD
 CHECKED BY: DMD
 DATE: AUG. 22, 2018
 PROJECT NO: 15-0001-09

PERMIT PLANS
GRADING AND UTILITY PLAN
C4.0
SHEET 5 OF 11



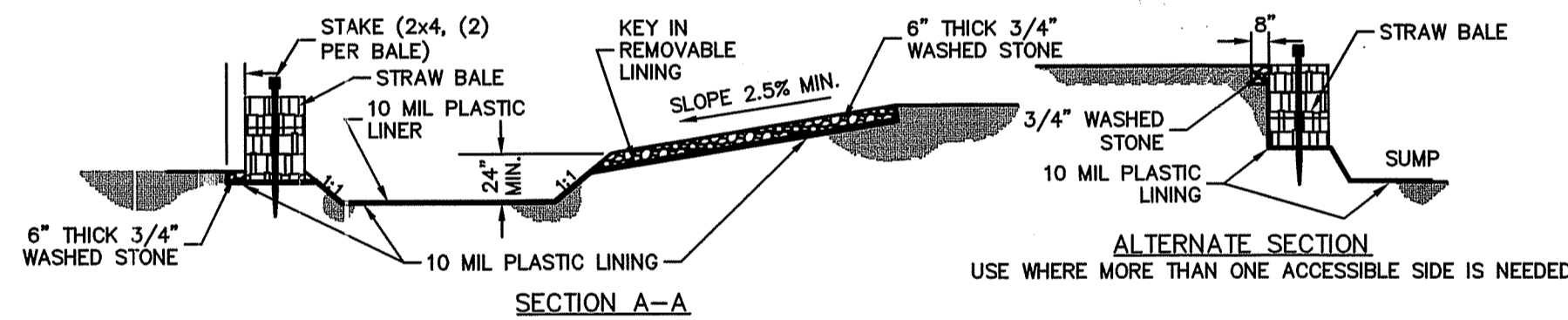
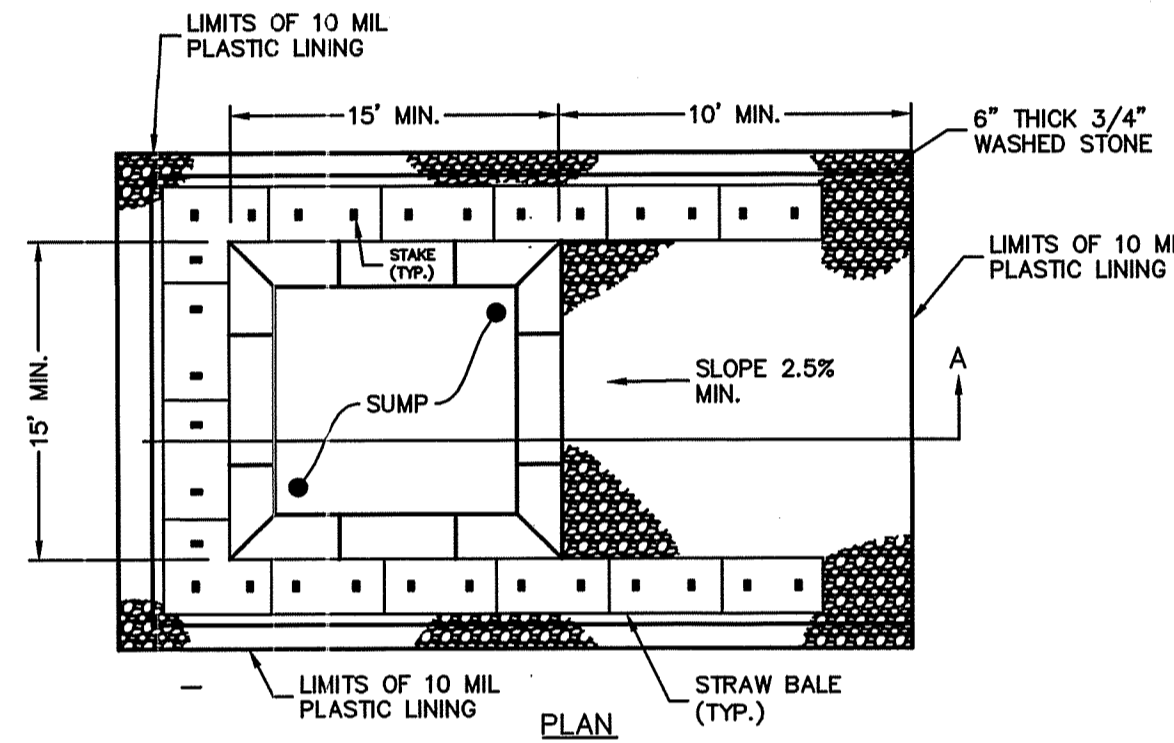
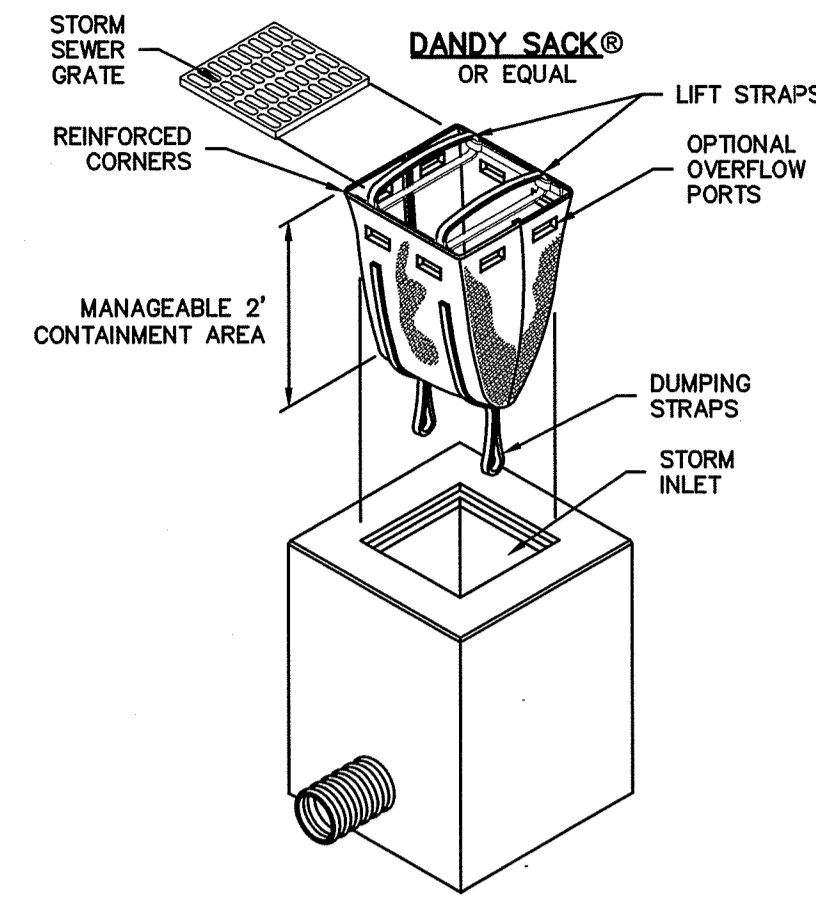
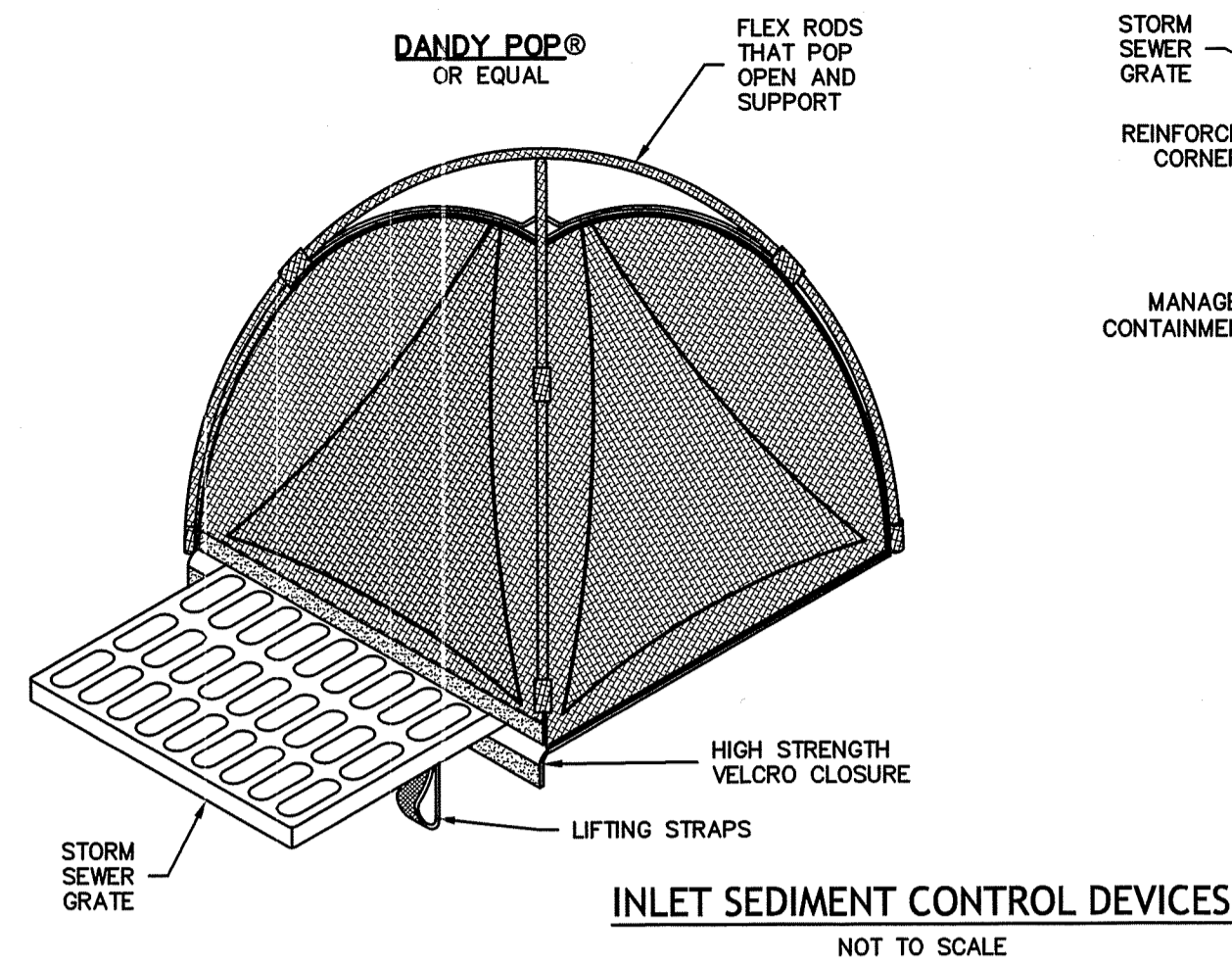
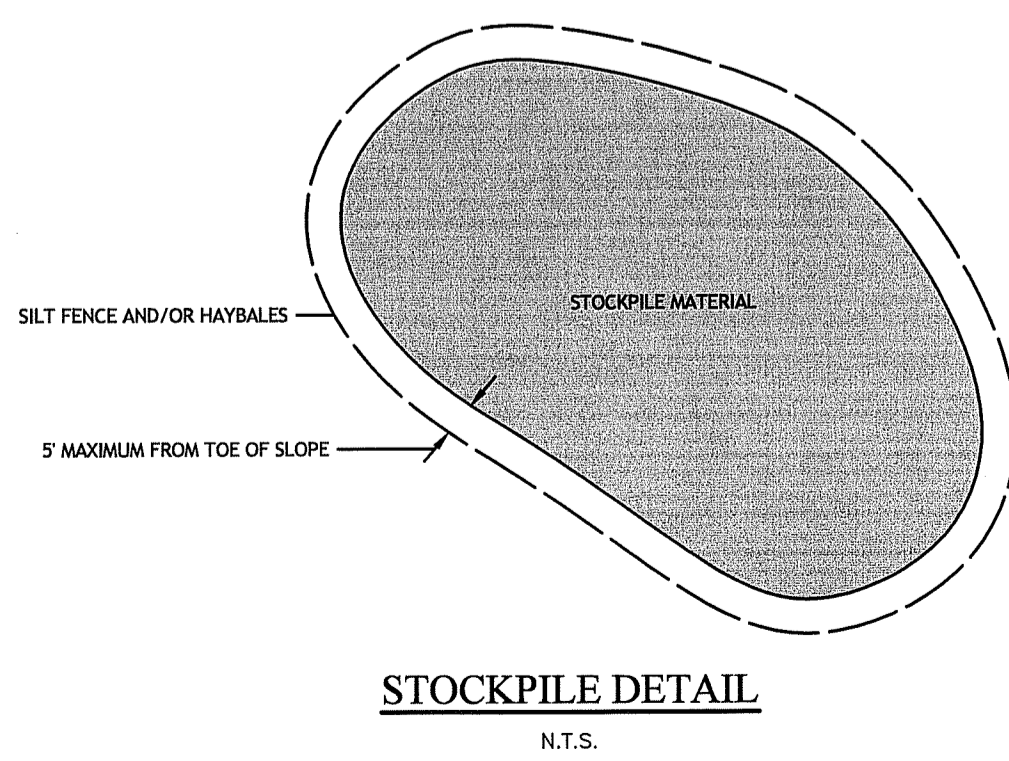
NOTES:
 1. SHALL BE IN ACCORDANCE WITH SECTION 206 OF THE R.I. STANDARD SPECIFICATIONS.
 2. 2"x2"x4"-6"(MAX.) OAK POSTS FOR SILT FENCE SHALL BE LOCATED 8'-0" (MAX.) O.C. IN WETLAND AREAS AND 4'-0" (MAX.) O.C. IN WETLAND RAINE, GUILLY OR DROP-OFF AREAS AS SHOWN ON PLANS.
 3. 1"x1"x4"-6"(MIN.) POSTS PERMITTED FOR PRE-FABRICATED SILT FENCE.
 4. SILT FENCE SHALL BE INSTALLED BEFORE ANY GRUBBING OR EARTH EXCAVATION TAKES PLACE.

SILT FENCE DETAIL R.I. STANDARD 9.2.0



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

CONSTRUCTION ACCESS R.I. STANDARD 9.9.0



NOTES:
 1. PIT IS SPECIFICALLY DESIGNATED, DIKED AND CONTAINED TO PREVENT CONTACT BETWEEN CONCRETE WASH AND STORMWATER.
 2. WASH WATER SHALL NOT BE ALLOWED TO FLOW TO SURFACE WATER.
 3. FACILITY MUST HOLD SUFFICIENT VOLUME TO CONTAIN CONCRETE WASTE WITH A MINIMUM FREEBOARD OF 12\"/>

CONCRETE WASHOUT AREA (NOT TO SCALE)

SOIL EROSION AND SEDIMENTATION CONTROL NOTES

1. THE HAYBALE, WATTLE AND SILT FENCE LINE ILLUSTRATED ON THESE PLANS SHALL SERVE AS THE STRICT LIMIT OF DISTURBANCE FOR THE PROJECT WITHIN OR ADJACENT TO REGULATED FRESHWATER WETLAND AREAS.
2. THE LIMITS OF CLEARING, GRADING, AND DISTURBANCE SHALL BE KEPT TO A MINIMUM WITHIN THE PROPOSED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE OF THESE LIMITS, AS DEPICTED ON THE PLAN SHALL BE TOTALLY UNDISTURBED, TO REMAIN IN NATURAL CONDITION.
3. ALL CATCH BASINS AND CULVERTS SHALL BE PROTECTED WITH STAKED HAYBALES (R.I. STD. 9.8.0) DURING CONSTRUCTION ACTIVITIES. ALL PROPOSED STORM WATER DISCHARGE AREAS SHALL BE LINED WITH A RIPRAP SPLASH PAD AND PROTECTED WITH STAKED HAYBALE OUTLET PROTECTION (R.I. STD. 9.1.0), OR STAKED HAYBALE WITH SILT FENCE (R.I. STD. 9.3.0) SHALL ALSO BE INSTALLED AT ALL EXISTING STORMWATER DISCHARGE LOCATIONS WHERE DISTRIBUTING PIPES, CATCH BASINS, AND MANHOLES ARE TO BE CLEANED AND FLUSHED.
4. ALL DISTURBED SLOPES EITHER NEWLY CREATED OR CURRENTLY EXPOSED SHALL BE SEEDED, PROTECTED AND MAINTAINED BY THE CONTRACTOR. THE CONTRACTOR SHALL REGULARLY CHECK ALL SEEDED AREAS TO ENSURE THAT A GOOD STAND IS MAINTAINED.
5. ALL HAYBALES, TEMPORARY TREATMENT (HAY, STRAW, ETC.) AND TEMPORARY EROSION PROTECTION SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION AND SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED.
6. STOCKPILES OF TOPSOIL SHALL NOT BE LOCATED NEAR WATERWAYS. THEY SHALL HAVE SIDE SLOPES OF NO GREATER THAN 2:1 AND SHALL BE TEMPORARILY SEEDED AND/OR STABILIZED PER CONTRACT SPECIFICATIONS.
7. THE HAYBALES SHALL BE CHECKED BY THE CONTRACTOR ON A WEEKLY BASIS AND AFTER EACH STORM FOR UNDERMINING OR DETERIORATION. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY HAYBALES AS NEEDED. THE CONTRACTOR SHALL CLEAN THE ACCUMULATED SEDIMENT IF HALF OF THE ORIGINAL HEIGHT OF THE HAY-BALES BECOMES FILLED WITH SEDIMENTS.
8. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ALL SOIL EROSION AND SEDIMENT CONTROLS ON THE PROJECT SITE FOR THE ENTIRE DURATION OF THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL FOLLOW THE DIRECTION OF THE ENGINEER OR OWNER'S REPRESENTATIVE WITH REGARD TO INSTALLATION, MAINTENANCE, AND REPAIR OF ALL SOIL EROSION AND SEDIMENTATION CONTROLS ON THE PROJECT SITE. TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROLS (HAYBALES, SILT FENCE, ETC.) SHALL BE MAINTAINED UNTIL ALL EXPOSED SOILS ARE SATISFACTORILY STABILIZED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND/OR RESEEDING ALL AREAS THAT DO NOT DEVELOP WITHIN ONE YEAR FROM THE COMPLETION OF CONSTRUCTION.
9. ALL REFERENCED SOIL EROSION AND SEDIMENTATION CONTROLS INCLUDING MATERIALS USED, APPLICATION RATES AND THE INSTALLATION PROCEDURES SHALL BE PERFORMED PER THE "RHODE ISLAND EROSION AND SEDIMENTATION HANDBOOK", DATED 1989, REVISED 2014.

BMP MAINTENANCE SCHEDULE

1. ALL MAINTENANCE (INCLUDING CLEANING) REQUIRED DURING THE CONSTRUCTION PHASE OF THE PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. CONSTRUCTION EQUIPMENT AND TRAFFIC SHALL BE RESTRICTED FROM TRAVELING OVER THE INFILTRATION TRENCH AND/OR SUBSURFACE CHAMBER AREAS TO MINIMIZE COMPACTION OF THE SOIL.
3. MEASURES NEEDED TO ENSURE THE PROPER OPERATION OF THE STORMWATER DRAINAGE SYSTEMS AND WATER QUALITY CONTROL SYSTEMS TO INCLUDE INSPECTION, CLEANING AND REPAIRS TO ALL PIPES, INTAKE AND DISCHARGE STRUCTURES (INCLUDING RIP-RAP SPLASH PADS), CATCH BASIN SUMPS, AND MANHOLES.
4. INSPECTION OF ALL SLOPES, BERMS, AND OTHER CONTROL STRUCTURES (INCLUDING ROADWAY SIDE SLOPES, FOR STRUCTURAL INTEGRITY, STABILITY AND EVIDENCE OF SOIL EROSION, SHALL INCLUDE MAINTENANCE OF THESE STRUCTURES IF NECESSARY. INSPECTIONS SHALL BE PERFORMED FOLLOWING ALL RAIN EVENTS OF 1/2 INCH RAINFALL OR MORE IN A 24-HOUR PERIOD, OR BIMONTHLY IF NO RAINFALL EVENT OCCURS.
5. UPON COMPLETION OF PROJECT CONSTRUCTION, AND PRIOR TO VACATING THE SITE, THE CONTRACTOR SHALL CONDUCT A FINAL INSPECTION, REPAIR ANY VEGETATIVE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES, (SEEDING, PLANTING, ETC.) WHERE REQUIRED, AND REPAIR (OR REMOVE WHERE APPROPRIATE) ANY TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL DEVICES. AFTER PERMANENT SOIL STABILIZATION ON THE ENTIRE SITE HAS OCCURRED, ALL TEMPORARY CONTROL MEASURES MUST BE REMOVED.
6. AFTER THE COMPLETION OF PROJECT CONSTRUCTION AND THE FINAL STABILIZATION OF THE ENTIRE SITE, THE INSPECTION AND MAINTENANCE OF ALL STORMWATER FACILITIES MUST BE PERFORMED.
7. REPLANTING, REGRADING, OR OTHER REPAIRS NEEDED AS A RESULT OF SOIL EROSION AND SEDIMENTATION PROCESSES SHALL BE DONE PROMPTLY TO ENSURE PROPER FUNCTIONING OF THE ENTIRE SYSTEM.
8. ANY TRASH, DEBRIS, ETC. SHOULD BE REMOVED FROM ANY WETLAND AREAS, SWALE, AND PIPE OUTLETS.
9. ALL DISTURBED AREAS WILL BE LOAMED AND SEEDED UNLESS DIRECTED OTHERWISE.

DEtec
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DAVID M. D'AMICO
 REGISTERED PROFESSIONAL ENGINEER CIVIL
 5/11/19

PROPOSED FedEx TERMINAL IMPROVEMENTS
 60 AND 70 INDUSTRIAL ROAD
 CUMBERLAND, RHODE ISLAND
 AP 24, LOTS 296, 289 AND 331

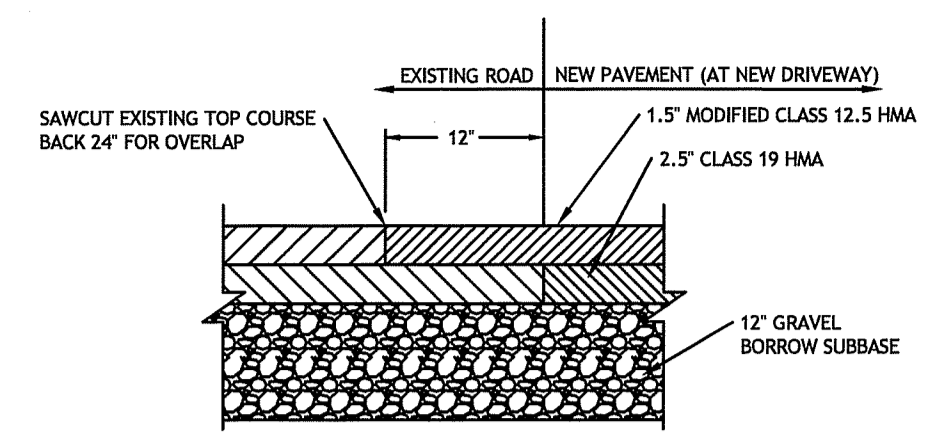
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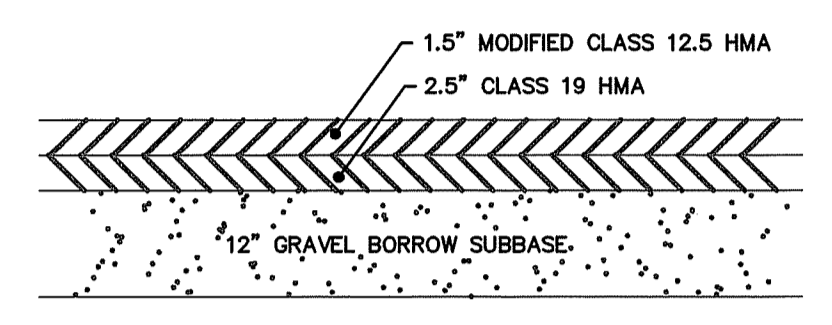
DESIGNED BY: DMD
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 DATE: AUG. 22, 2018
 PROJECT NO: 15-0001-09

PERMIT PLANS
SOIL EROSION CONTROL DETAILS
 C5.1

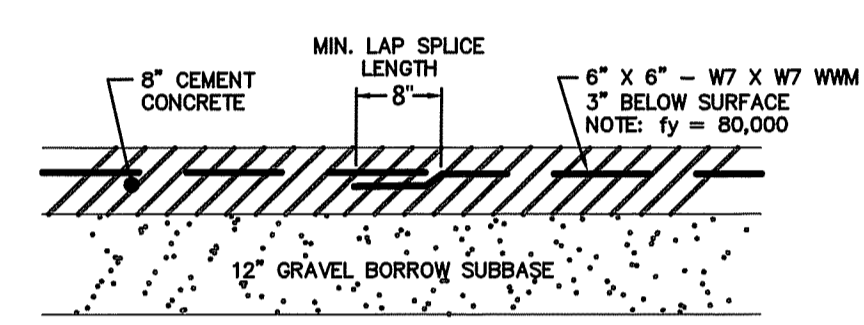
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED OCT 03 2019 FILE # 17-0253
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE



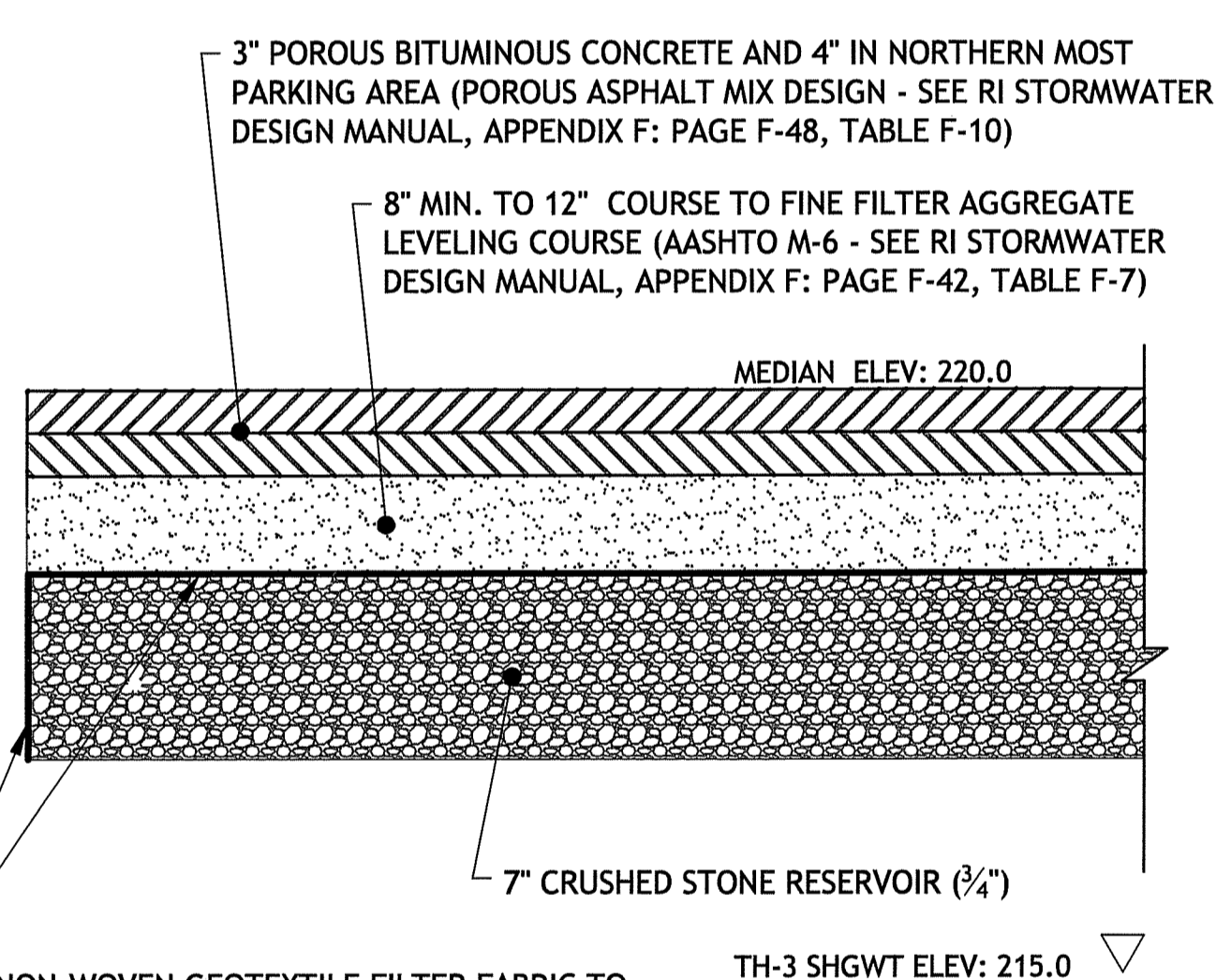
PAVEMENT CUT & MATCH
NOT TO SCALE



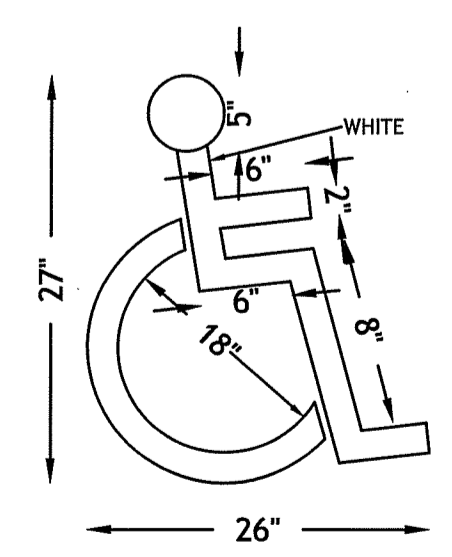
PAVEMENT CROSS SECTION (PAVEMENT TYPE B)
NOT TO SCALE



CONCRETE LOADING PAD CROSS SECTION
NOT TO SCALE



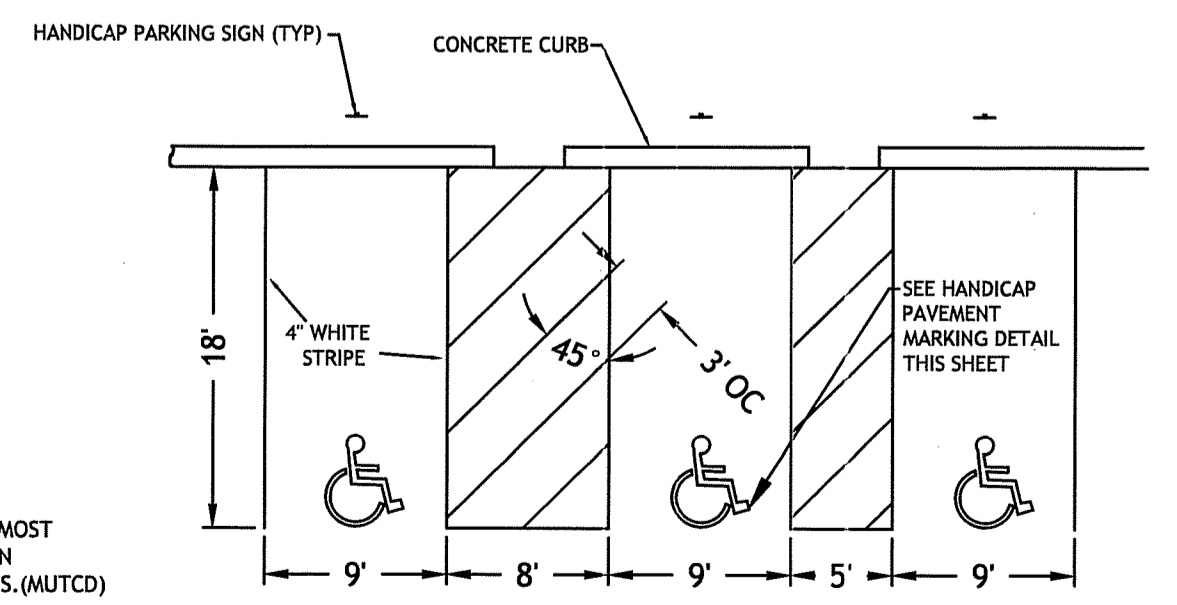
PERVIOUS PAVEMENT SUB-BASE MATERIAL DETAIL
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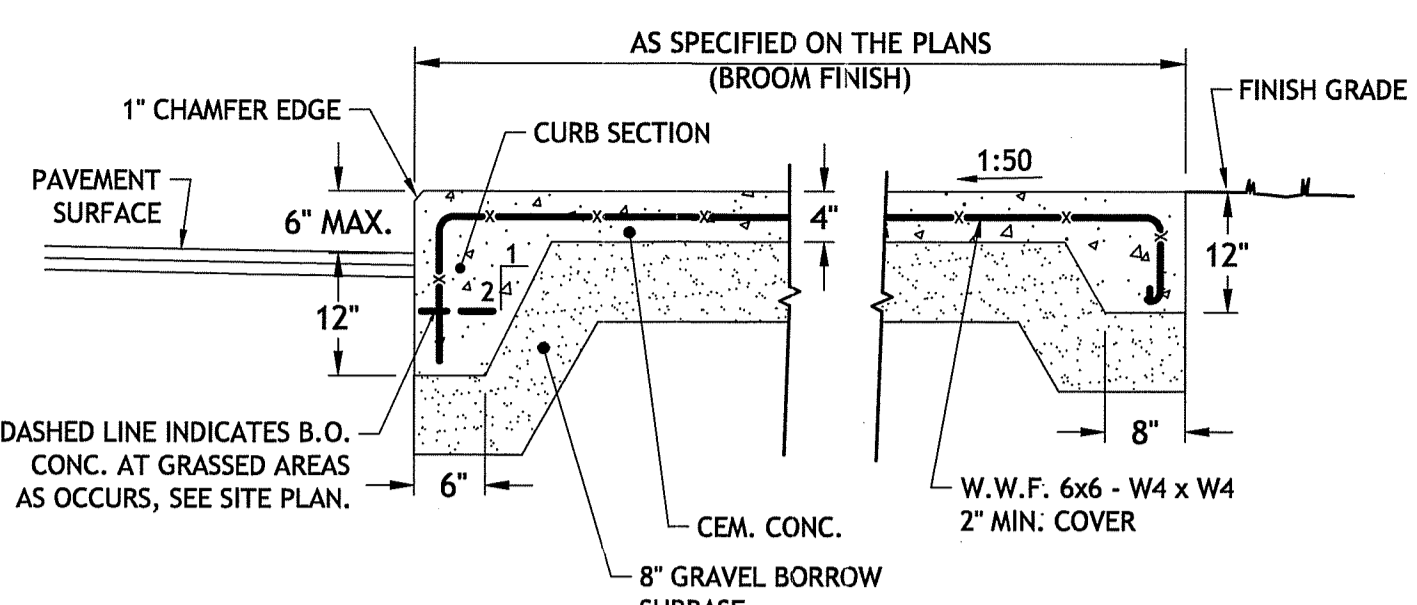
HANDICAP PAVEMENT MARKING
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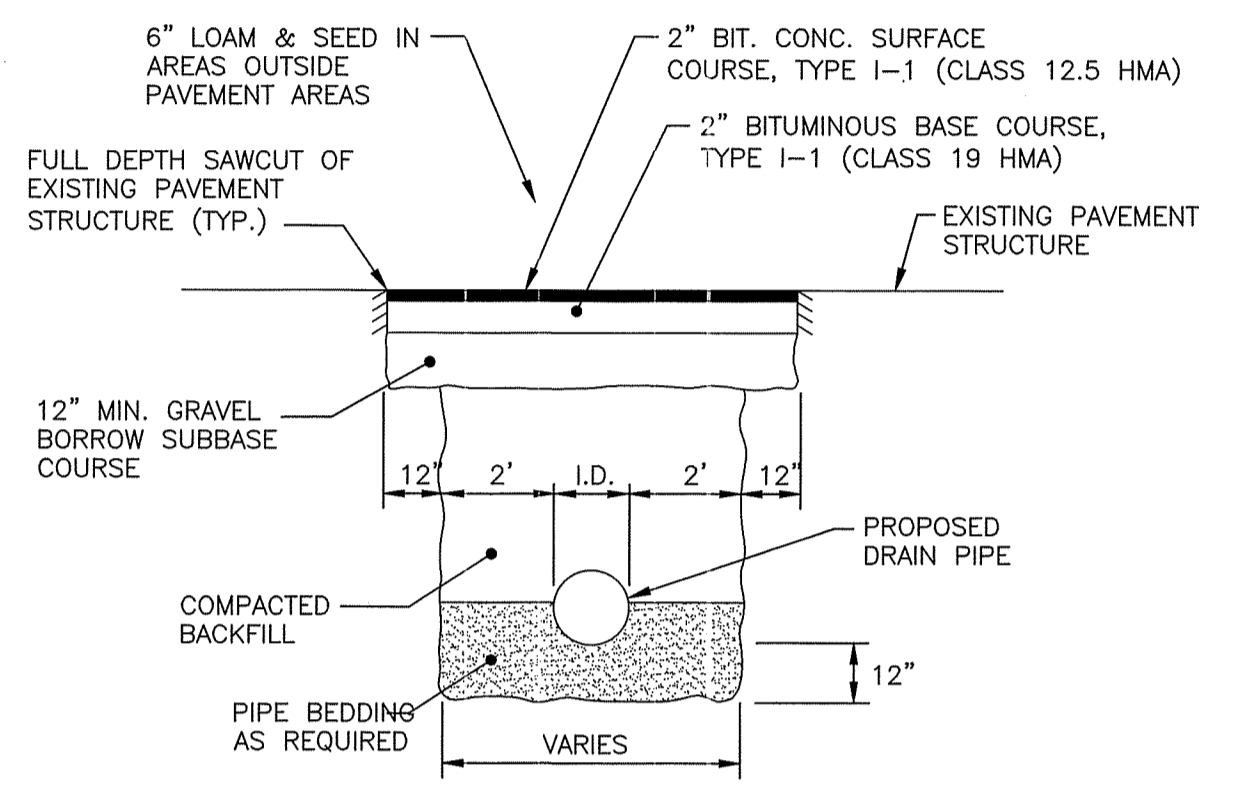
HANDICAPPED PARKING SIGNS
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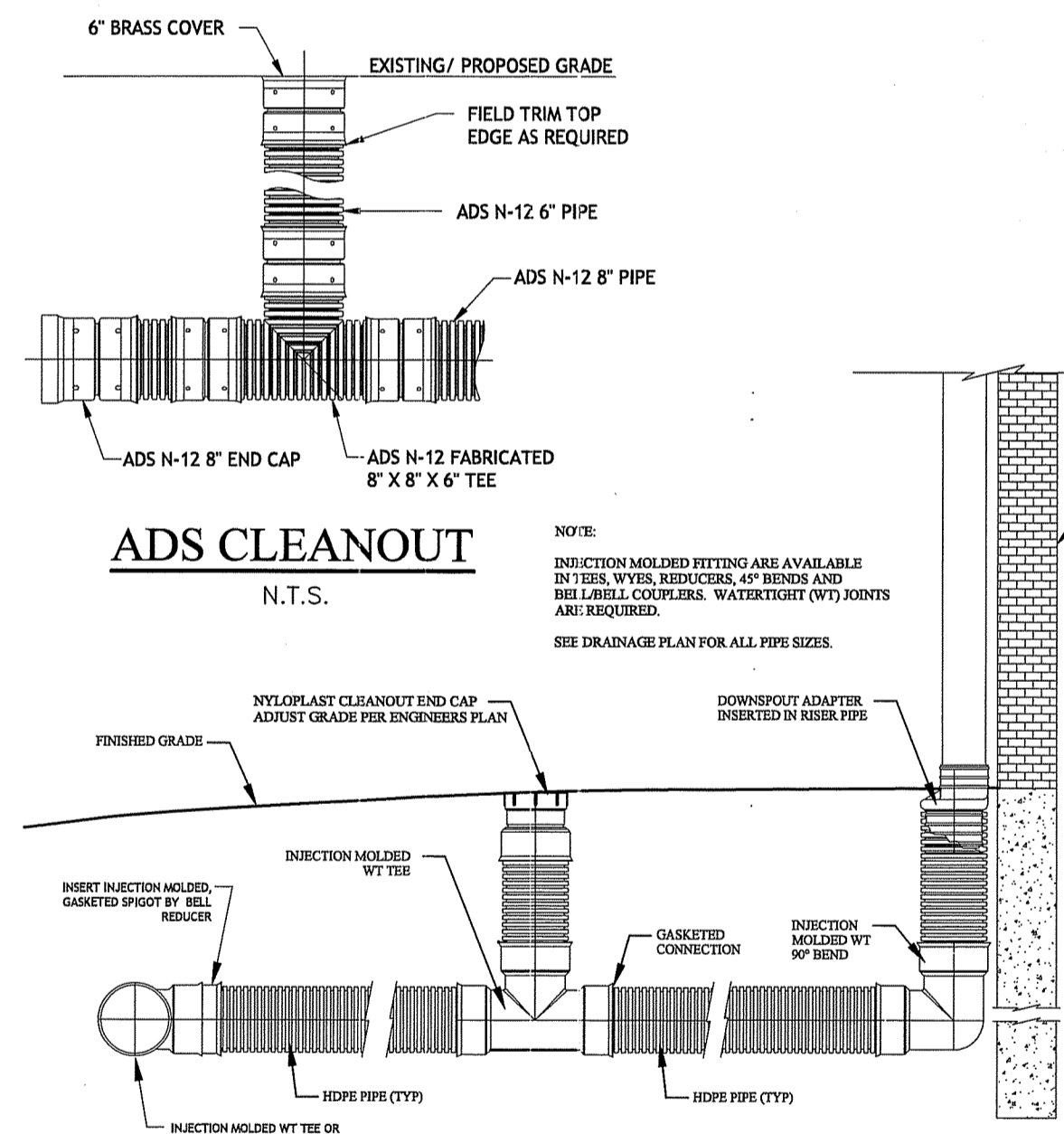
HANDICAP PARKING STALLS
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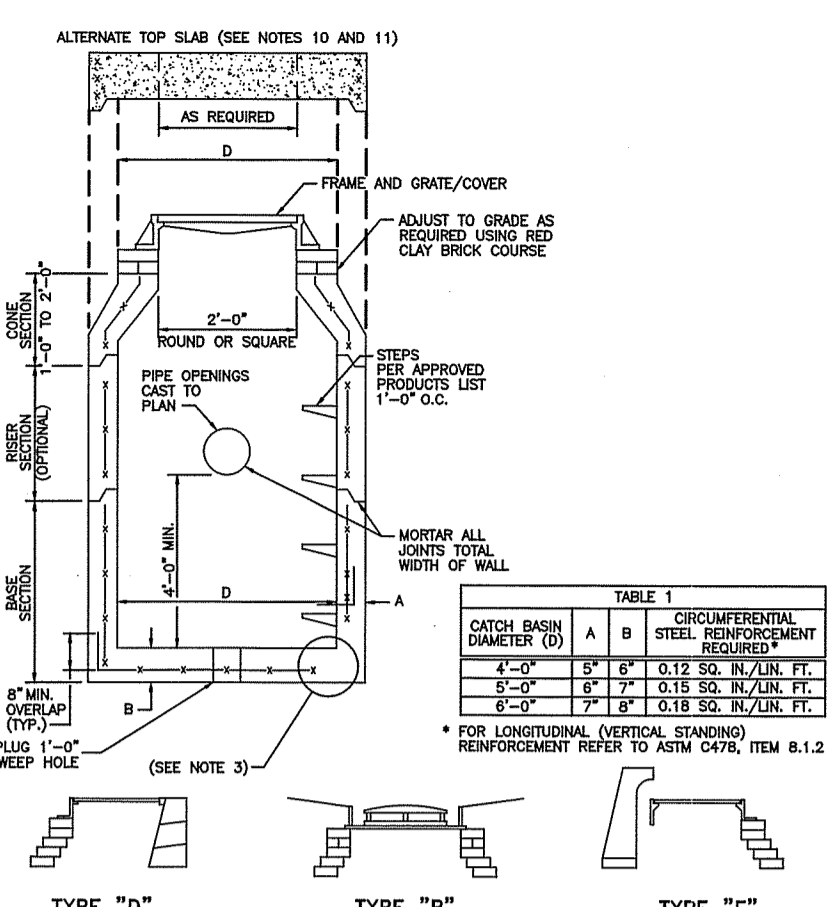
CEMENT CONCRETE SIDEWALK AND CURB, PAD OR WALKWAY - MONOLITHIC POUR
NTS



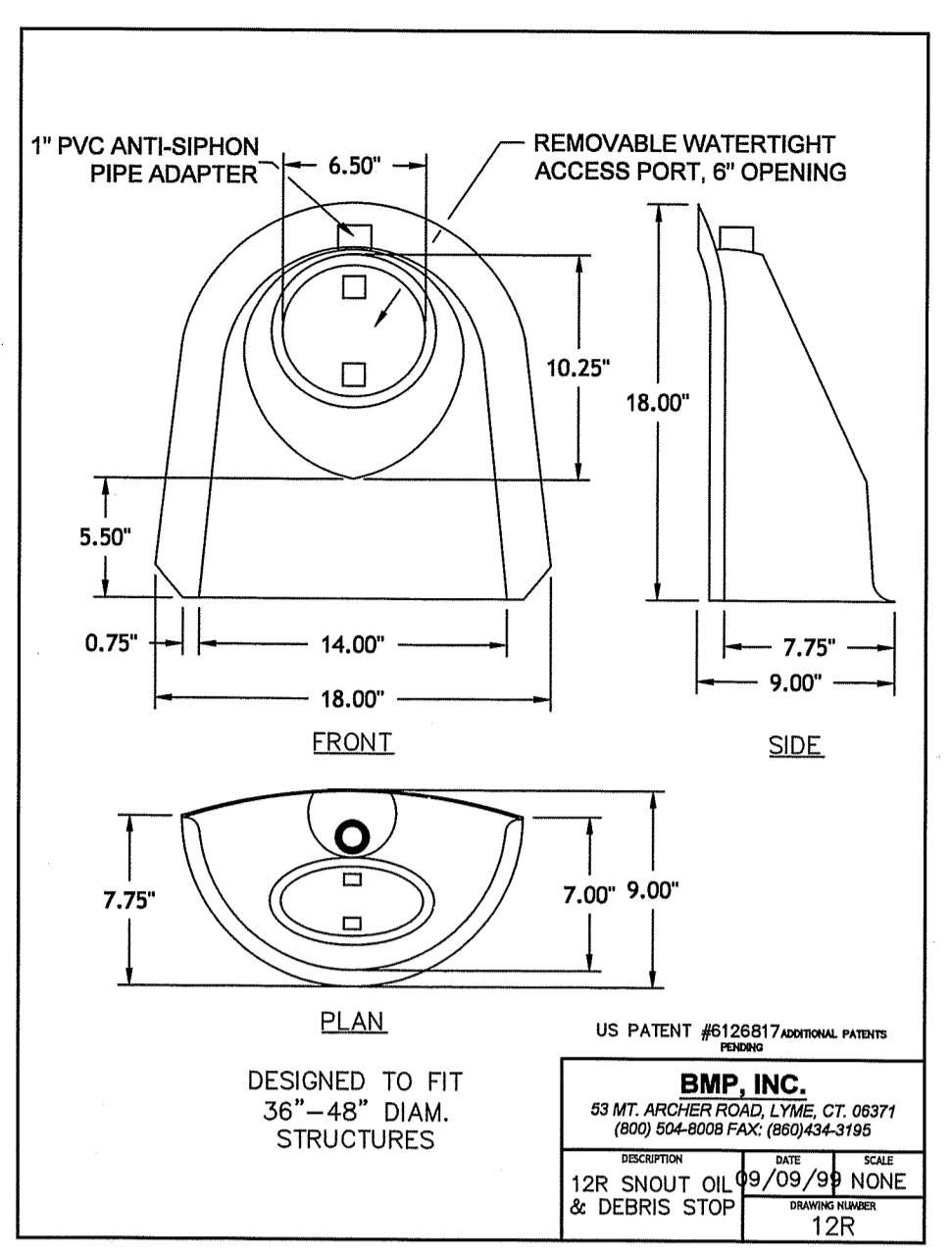
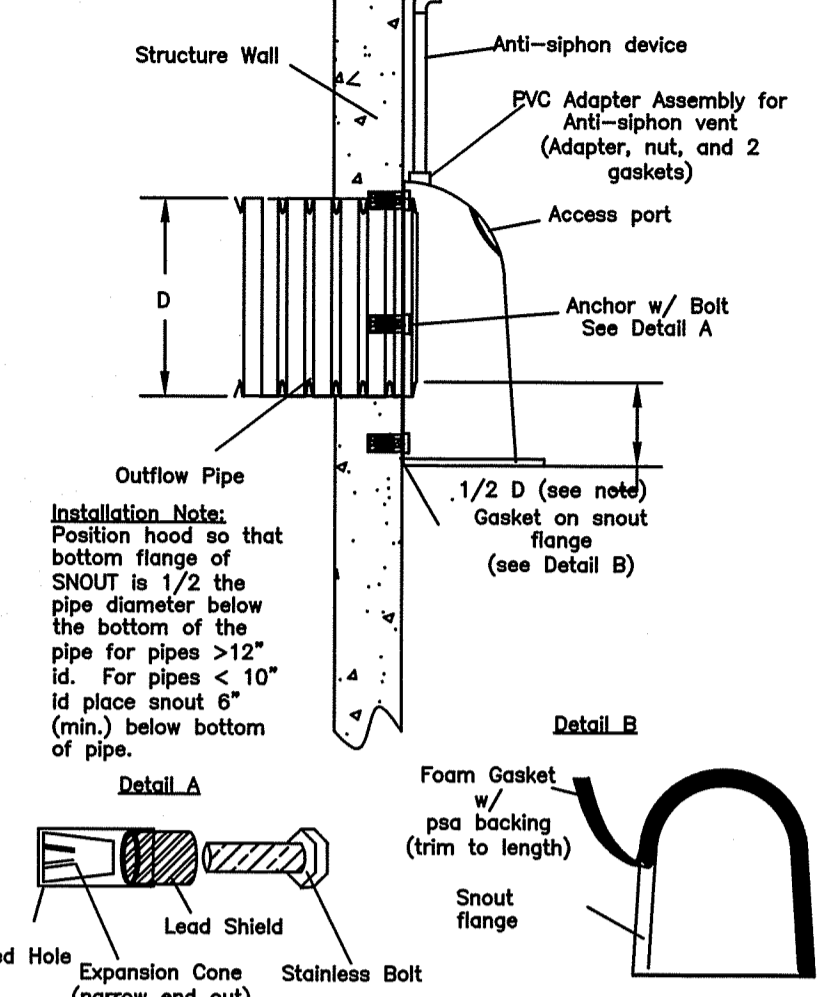
TYPICAL TRENCH AND PAVEMENT PATCH DETAIL
NOT TO SCALE



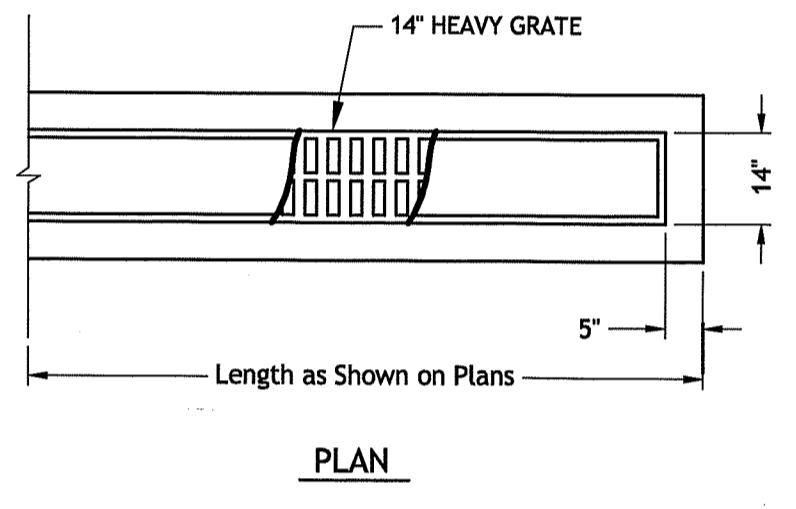
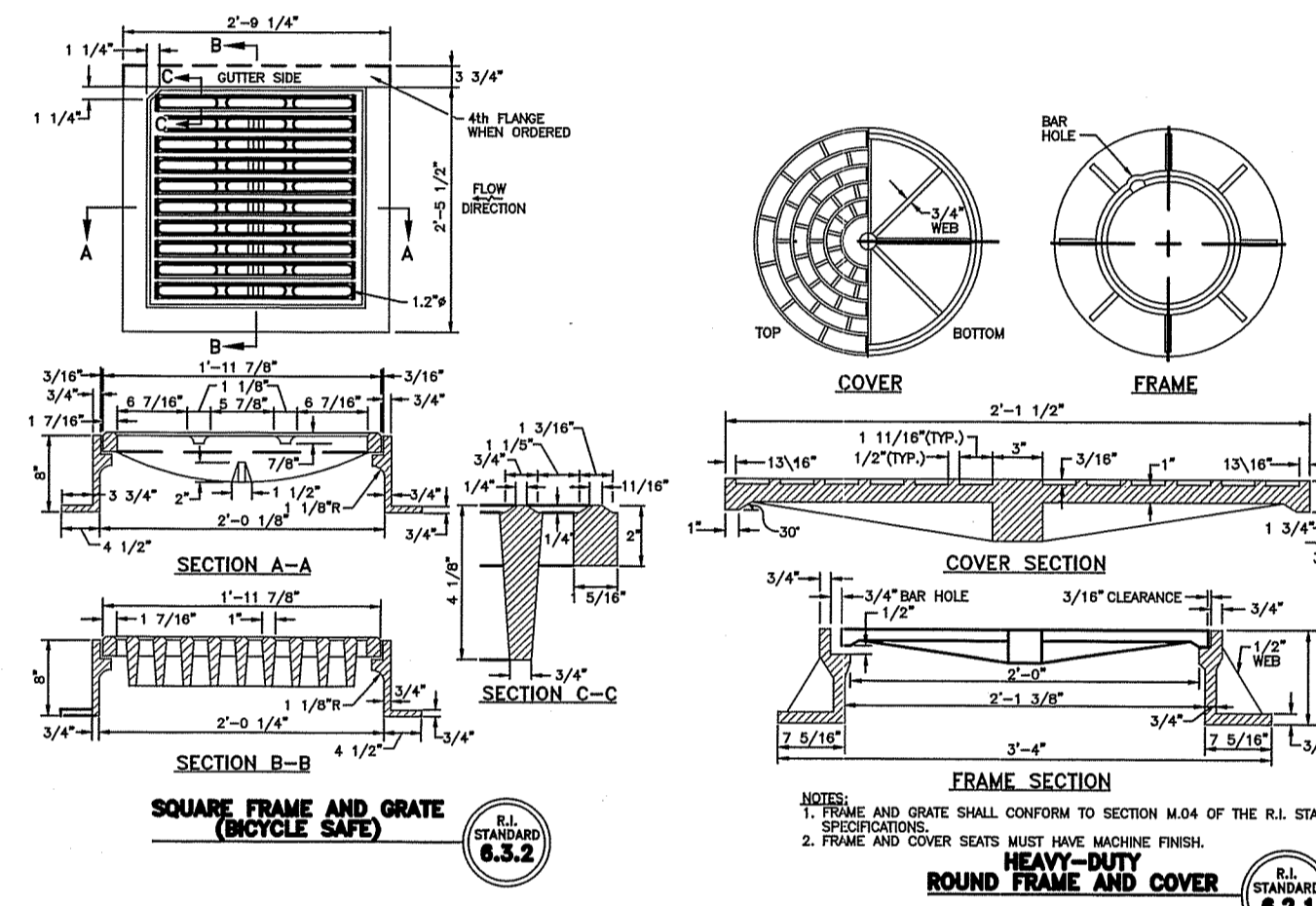
ROOFDRAIN W/CLEAN OUT DETAIL
N.T.S.



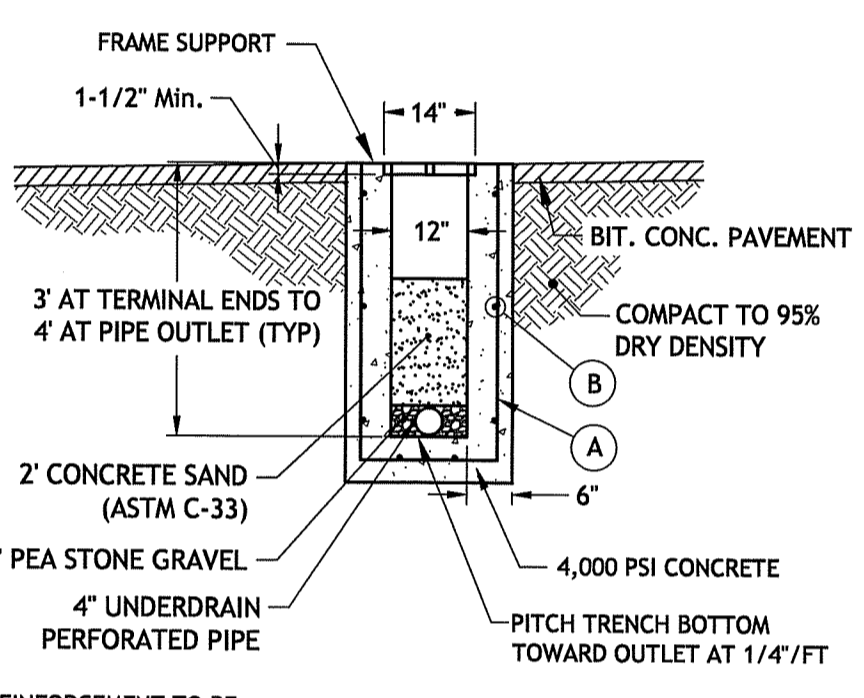
BEST MANAGEMENT PRODUCTS, INC. SNOUT OIL & DEBRIS STOP
DRAWING NUMBER: IN-SN
INSTALLATION DIAGRAM (TYPICAL)
U.S. PATENT #6,128,817



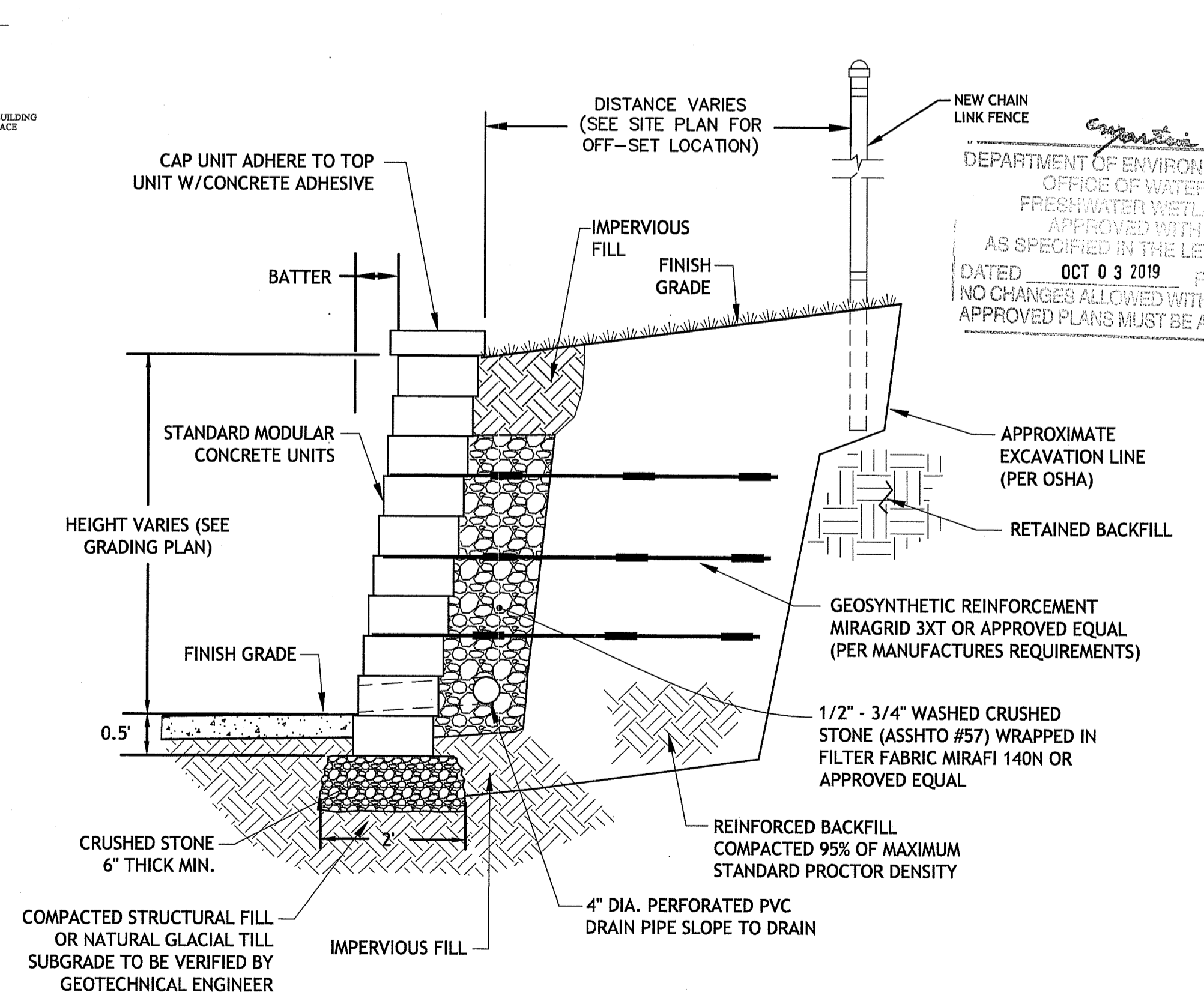
BMP, INC.
83 MT. ARCHER ROAD, LYME, CT, 06371
(860) 554-0008 FAX: (860) 434-3185
12R SNOUT OIL & DEBRIS STOP
12R



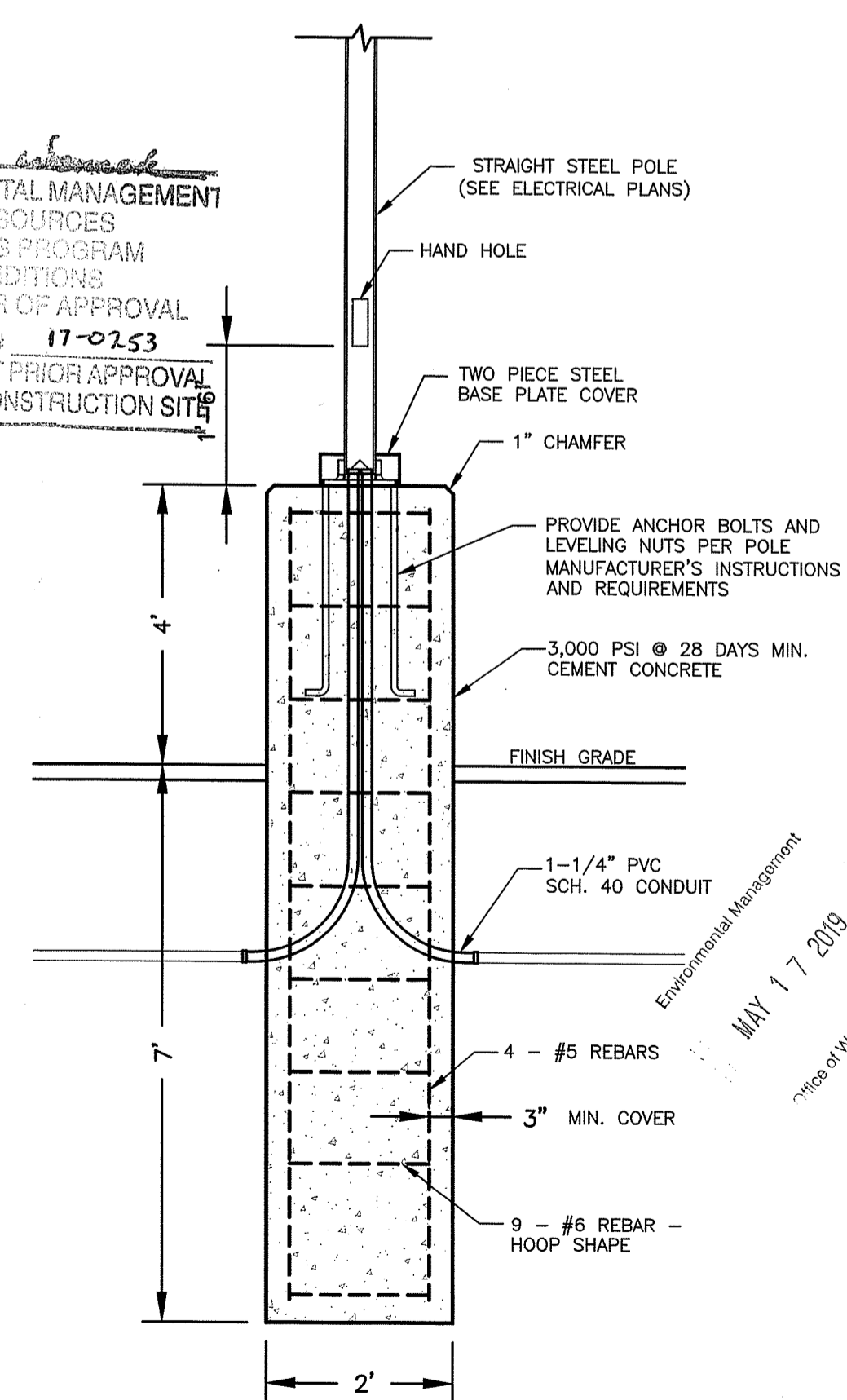
SAND FILTER TRENCH
NOT TO SCALE



REINFORCEMENT TO BE:
A. 1\"/>



TYPICAL SECTION-GEOSYNTHETIC- REINFORCED SEGMENTAL RETAINING WALL VERSALOK TYPE BLOCKS
NOT TO SCALE



LIGHT POLE BASE DETAILS
NOT TO SCALE

PETEC
D'AMICO ENGINEERING TECHNOLOGY, INC.
Civil - Transportation - Land Use
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DAVID M. D'AMICO
REGISTERED PROFESSIONAL ENGINEER
CIVIL
5/11/19

PROPOSED FedEx TERMINAL IMPROVEMENTS
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PERMIT PLANS

DETAIL SHEET NO. 1

C6.0

N:\15-0001 Marc N Nyberg\09 FedEx Cumberland\FedEx Construction Plan Set 5-10-19.s.dwg, May 11, 2019 11:44am

NOTES FOR WETLAND REPLICATION AREA

EXCAVATION/SOILS NOTES

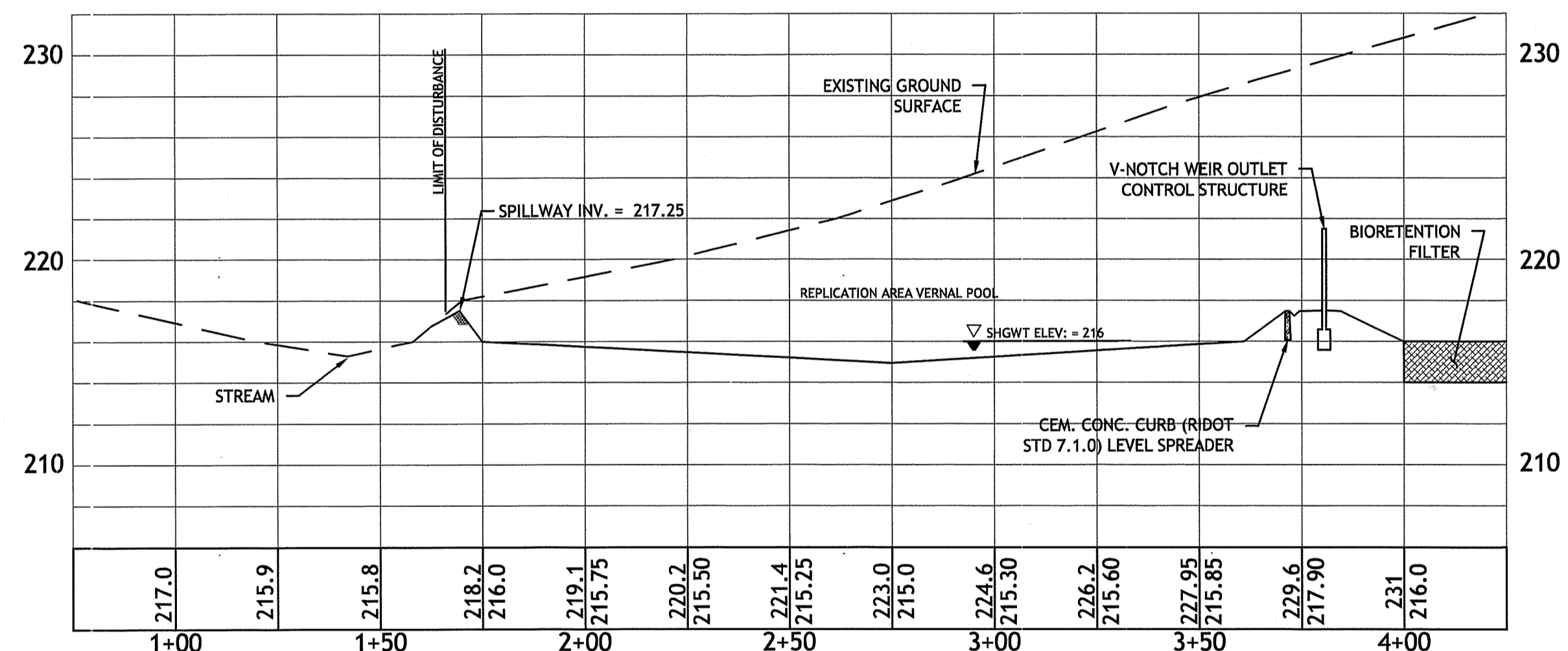
- 1) THE DESIGNATED REPLICATION AREA AND THE EXISTING WETLAND WILL BE STAKED OR FLAGGED IN THE FIELD BY A QUALIFIED WETLAND PROFESSIONAL. PATHS AND STAGING AREAS FOR HEAVY EQUIPMENT AND PROJECT MATERIALS SHALL BE MARKED IN THE FIELD. VEGETATION TO REMAIN UNDISTURBED IN THE REPLICATION AREA WILL BE CLEARLY LABELED USING FLAGGING TAPE OR PAINT.
- 2) ALL WETLAND RESOURCE AREAS AND JURISDICTIONAL SETBACK AREAS SURROUNDING THE EXISTING ON-SITE WETLANDS AND THE REPLICATION AREA WILL BE MAINTAINED AT PRE-CONSTRUCTION CONDITIONS OR AS DEPICTED ON APPROVED PLANS AND PERMITS.
- 3) THE APPROXIMATE SIZE OF THE EXISTING C/D-SERIES EMERGENT PLANT COMMUNITY (EPC) WETLAND IS +/- 8,672 SQ. FT. THE APPROXIMATE SIZE OF THE REPLICATION AREA WHICH INCLUDES THE OPEN WATER PORTION AND SURROUNDING BUFFER WILL BE APPROXIMATELY 6,840 SQ. FT. THE REMAINING AREA SHALL BE ALONG THE GRADED SLOPES OF THE WETLAND.
- 4) THE DEM WILL BE NOTIFIED OF THE START AND COMPLETION OF ALL WORK, INCLUDING THE EXCAVATION OF THE REPLICATION AREA AND THE FILLING OF THE EXISTING WETLAND. ALL APPROPRIATE SAFETY PRECAUTIONS SHALL BE CARRIED OUT ON THE PROJECT SITE BY ALL APPROPRIATE PARTIES INVOLVED, (I.E. CALLING DIGSAFE, PROPER EQUIPMENT USE, ETC.)
- 5) ALL WORK SHALL BE CONDUCTED DURING THE DRY SEASON (AUGUST 1ST - OCTOBER 31ST) OUTSIDE OF THE TYPICAL BREEDING PERIODS FOR AMPHIBIAN AND BIRD SPECIES IN ORDER TO MINIMIZE IMPACT TO WILDLIFE.
- 6) ALL WORK WILL BE SUPERVISED BY A QUALIFIED WETLAND/SOIL PROFESSIONAL.
- 7) THE REPLICATION AREA WILL BE PROTECTED BY A SILT FENCE AS DESCRIBED IN THE ENVIROCERT CESSWI MANUAL. THE SILT FENCE WILL MITIGATE EROSION FROM THE UPLAND SURROUNDING THE REPLICATION AREA.
- 8) THE SILT FENCE WILL BE PROPERLY TRENCHED AND BACKFILLED ON THE UPLAND SIDE. THE SILT FENCE WILL BE REGULARLY INSPECTED BY A QUALIFIED PROFESSIONAL CONTINUOUSLY DURING CONSTRUCTION. ANY WORN, TORN, SAGGING, OR OTHERWISE MALFUNCTIONING EROSION CONTROLS WILL BE IMMEDIATELY REPAIRED OR REPLACED.
- 9) THE SILT FENCE SHALL REMAIN IN PLACE THROUGH THE DURATION OF THE PROJECT. INSPECTIONS SHALL CONTINUE DURING THE POST-PROJECT MONITORING TO ENSURE PROPER RESULTS FROM THE EROSION CONTROLS/PROPER REMOVAL UPON COMPLETION. ANY ISSUES OF SEDIMENTATION OR OTHER EROSION IMPACTS IN THE REPLICATION AREA WILL BE DOCUMENTED AND REPORTED TO THE APPLICANT AND THE DEM. IF NECESSARY, A PLAN TO ADDRESS ANY ISSUES WILL BE CARRIED OUT WITH THE APPROVAL OF THE DEM.
- 10) THE SILT FENCE WILL BE REMOVED ONCE THE AREA IS STABILIZED FOLLOWING CONSTRUCTION AND PRIOR TO THE AMPHIBIAN BREEDING SEASON (MARCH 1 - MAY 15).
- 11) THE DESIGNATED REPLICATION AREA WILL BE EXCAVATED 24-36 INCHES BELOW THE ESTIMATED SEASONALLY HIGH WATER TABLE (SHWT) USING A MINI-EXCAVATOR OR SIMILAR EQUIPMENT. EXCAVATION SHALL NOT EXCEED THE SEASONALLY LOW WATER TABLE (SLWT) LEVEL (SLWT DEPTH TO BE DETERMINED DURING DRY SEASON). SOIL EVALUATIONS WILL BE CONDUCTED VIA INSTALLATION OF A TEST PIPE TO MONITOR THE WATER TABLE THROUGH THE DRY SEASON TO ESTABLISH AN ESTIMATE FOR THE SLWT. THE POOL DEPTH MAY BE REVISED BASED ON THESE FINDINGS.
- 12) SHWT WILL BE REFINED AT THE TIME OF EXCAVATION BY THE WETLAND/SOIL PROFESSIONAL.
- 13) EXCAVATED MATERIAL WILL BE DISPOSED OF IN ACCORDANCE WITH APPLICABLE REGULATIONS. SUITABLE MATERIAL WILL BE REUSED IN UPLAND PORTIONS OF THE SITE. ALSO, SUITABLE ORGANIC MATERIAL WILL BE RETAINED AND UTILIZED FOR SOIL AMENDMENT PURPOSES IN THE REPLICATION AREA. IF THE MATERIAL IS CONSIDERED SUITABLE FOR AMENDMENT USE, IT WILL BE STOCKPILED ON SITE IN AN AREA OF NON-JURISDICTIONAL UPLAND FOR LATER USE.
- 14) EXISTING SUBSTRATE FROM THE C/D-SERIES SPC WILL BE ASSESSED BY THE WETLAND/SOIL PROFESSIONAL TO DETERMINE THE APPROPRIATE DEPTH FOR EXCAVATION AND RELOCATION TO THE REPLICATION AREA FOLLOWING THE REPLICATION AREA EXCAVATION. NO WORK IS TO TAKE PLACE IN THE C/D-SERIES WETLAND UNTIL THE EXCAVATION OF THE REPLICATION AREA IS COMPLETE.
- 15) ONCE EXCAVATED, SOIL IN THE C HORIZON WILL BE MECHANICALLY MANIPULATED TO ACHIEVE A LOOSE - FRIABLE SOIL CONSISTENCE IF NECESSARY. THE EXCAVATED BOTTOM OF THE REPLICATION AREA WILL BE DUG SO AS TO CREATE A VARYING MICROTOPOGRAPHY AS DIRECTED BY THE WETLAND/SOIL PROFESSIONAL.
- 16) THE SIDE SLOPES OF THE REPLICATION AREA SHALL BE NO GREATER THAN 2H: 1V; HOWEVER SHALLOWER SLOPES WILL BE IMPLEMENTED AS PRACTICABLE AMONG EXISTING VEGETATION. AS DIRECTED BY THE WETLAND/SOIL SCIENTIST, THE SLOPE SHALL BE GRADED BETWEEN 10H: 1V AND 2H: 1V. THE GOAL IS TO CREATE VARIABLE DEPTHS AND GRADES MIMICKING THAT OF A NATURAL POOL.
- 17) ONCE APPROPRIATE SOIL CONSISTENCE IS ACHIEVED, SOIL WILL BE AMENDED WITH A LAYER OF 50/50 MIX OF LOAM AND LEAF COMPOST/ORGANIC MATERIAL 10-12 INCHES IN DEPTH. THE EXISTING C/D-SERIES SPC SUBSTRATE WILL BE RELOCATED INTO THE REPLICATION AREA AS THE TOP LAYER MATERIAL.
- 18) THE 50/50 MIX MUST BE DERIVED FROM A CLEAN SOURCE AND APPROVED BY THE WETLAND/SOIL PROFESSIONAL. MATERIAL CONTAINING POLLUTANTS OR INVASIVE SPECIES WILL NOT BE ALLOWED.
- 19) USE OF HEAVY MACHINERY AND SOIL COMPACTION WITHIN THE REPLICATION AREA SHALL BE KEPT TO A MINIMUM.
- 20) INVASIVE SPECIES IN THE REPLICATION AREA WILL BE MECHANICALLY REMOVED. INVASIVE SPECIES MATERIAL AND SOILS, AND/OR ANY SOLID WASTE (I.E. TIRES, TRASH) WILL BE PROPERLY DISPOSED OF.
- 21) HYDROLOGY WITHIN THE OPEN WATER AREA OF THE REPLICATION WETLAND WILL BE SEASONALLY FLOODED. THE REMAINDER OF THE REPLICATION AREA (POOL SLOPES) WILL BE SATURATED. THE INTENDED SURFACE FLOODING OF THE REPLICATION AREA WILL BE BETWEEN 3 - 6 MONTHS PER YEAR.
- 22) COARSE ORGANIC DEBRIS WILL BE SELECTIVELY PLACED THROUGHOUT THE REPLICATION AREA USING SALVAGED LOGS, BRANCHES, ETC. CUT DURING PROJECT ACTIVITIES. PLACEMENT TO BE DETERMINED BY A WETLAND/SOIL PROFESSIONAL.

PLANTING NOTES

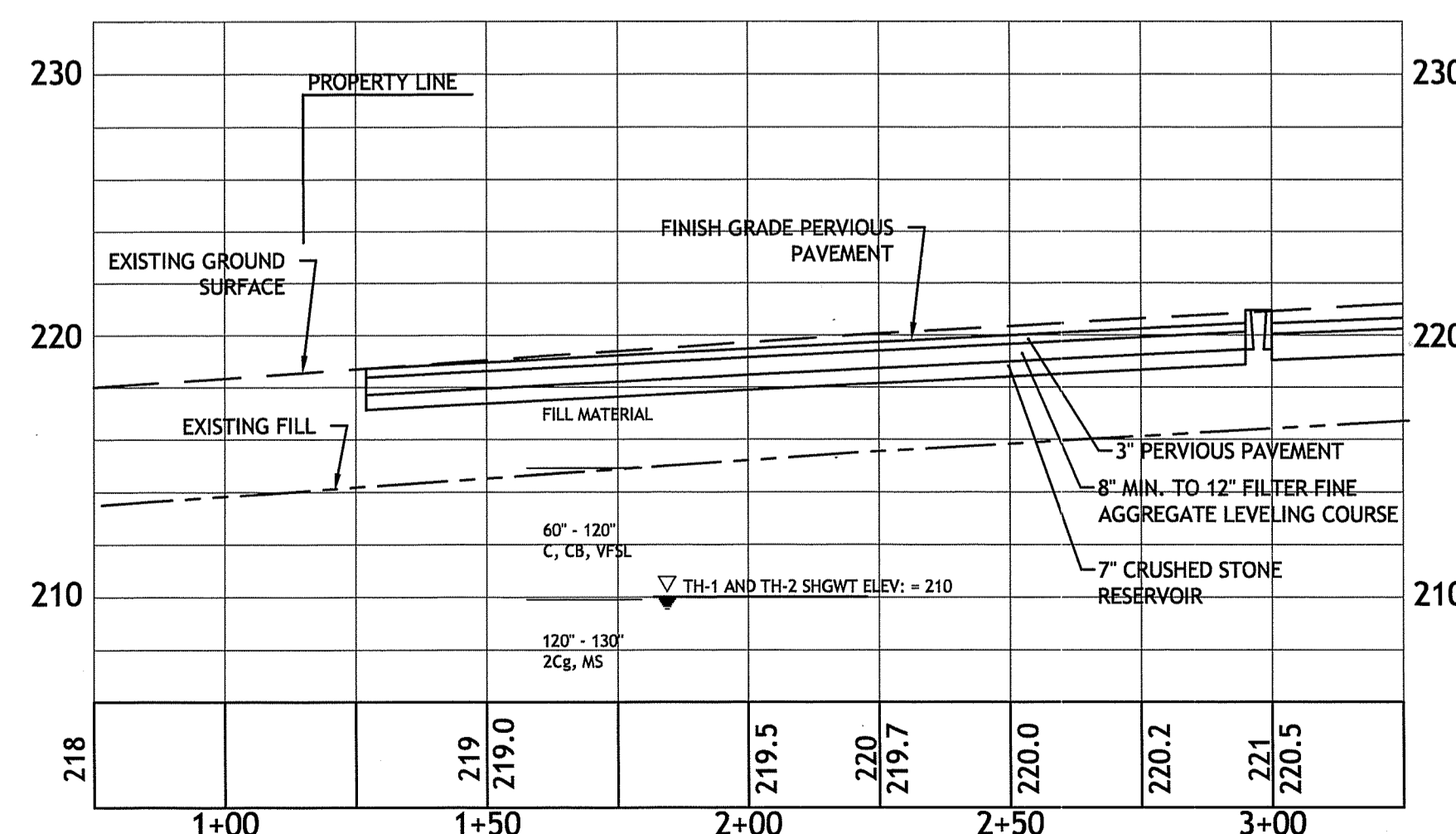
- 23) THE REPLICATION AREA WILL BE PLANTED WITH NATIVE WETLAND VEGETATION. REPLICATION AREA WILL BE SEEDED WITH A WETLAND SEED MIXTURE (I.E. NEW ENGLAND WETMIX (NEW ENGLAND WETLAND PLANTS, INC., AMHERST, MA WWW.NEWP.COM) AT AN APPLICATION RATE OF 18 LBS/ACRE).
- 24) A LINE OF RHODODENDRONS (*RHODODENDRON MAXIMUM*) WILL BE PLANTED AS SCREENING VEGETATION ALONG THE UPLAND EDGE OF THE REPLICATION AREA ALONG THE PROPOSED PAVEMENT INTERIOR OF THE CHAIN LINK FENCE. THESE SHRUBS WILL REPLACE THE INVASIVE SPECIES REMOVED DURING THE REPLICATION PROCESS. PLANTINGS WILL BE 24-36" IN HEIGHT AND PLACED EIGHT FEET (8') ON CENTER. PLANTINGS SHALL BE INSTALLED UPON COMPLETION OF ANY EXCAVATION ACTIVITIES AND PRIOR TO OCTOBER 31ST OR BEFORE THE FIRST HARD FROST.
- 25) THE AREA WILL BE MONITORED FOR SUCCESS AND THE POTENTIAL FOR THE COLONIZATION OF INVASIVE SPECIES. INVASIVE SPECIES SUCH AS MULTIFLORA ROSE (*ROSA MULTIFLORA*), RUSSIAN OLIVE (*ELAEAGNUS ANGUSTIFOLIA*), PURPLE LOOSESTRIFE (*LYTHRUM SALICARIA*) AND COMMON REED (*PHRAGMITES AUSTRALIS*) ARE KNOWN TO EXIST ON THE SUBJECT PROPERTY.
- 26) IF INVASIVE SPECIES OCCUR WITHIN THE REPLICATION AREA, SPECIMENS WILL BE REMOVED BY HAND AT TIME OF INSPECTION WHERE POSSIBLE. THE DEM WILL BE NOTIFIED IF ANY HERBICIDE TREATMENT OR OTHER INVASIVE SPECIES MANAGEMENT PLAN IS NECESSARY PRIOR TO USE OF ANY HERBICIDE, CHEMICAL, OR MECHANICAL TREATMENT.

MONITORING NOTES

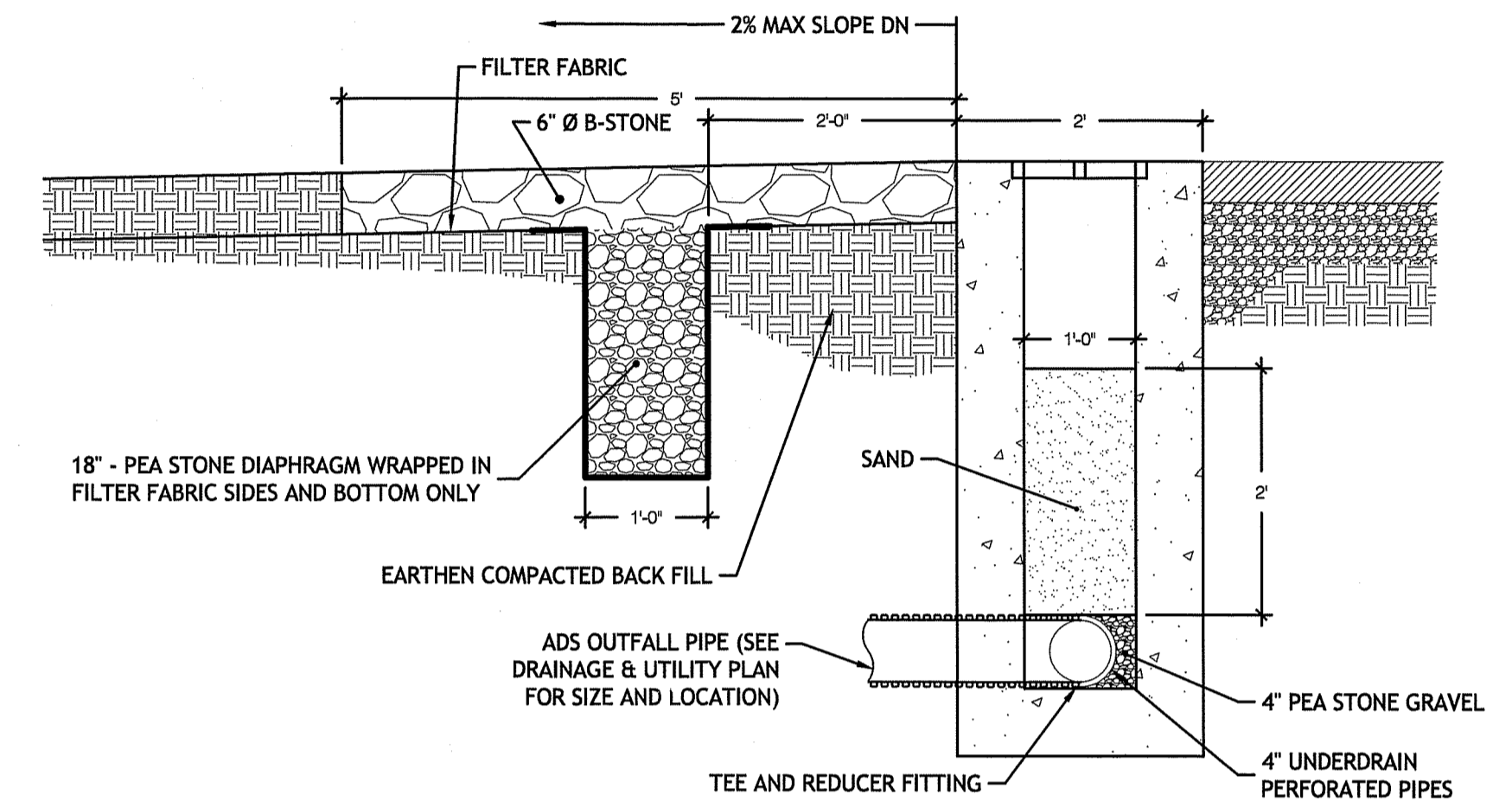
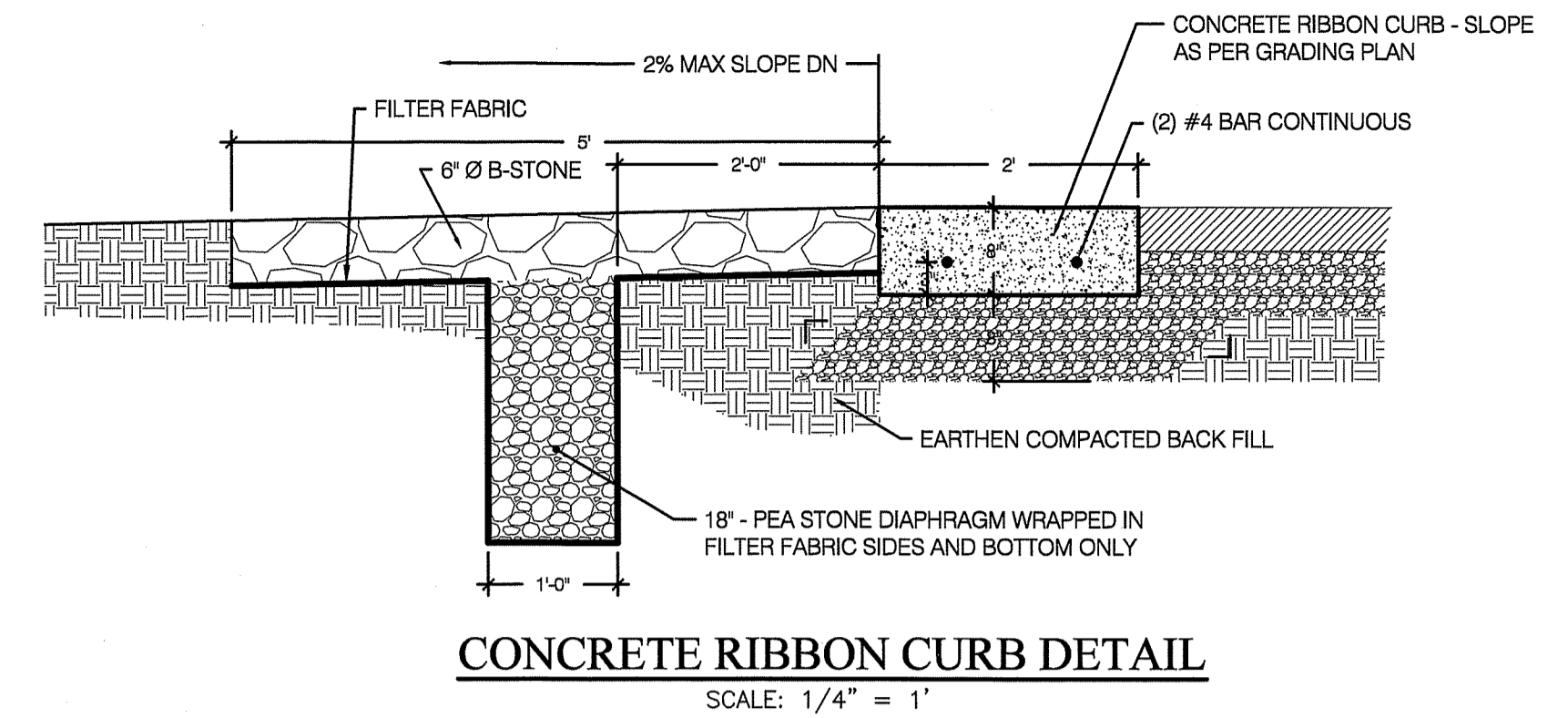
- 27) MONITORING WILL INCLUDE DOCUMENTATION OF THE SITE UNDER THE FOLLOWING CONDITIONS USING PHOTOGRAPHS AND WRITTEN DESCRIPTIONS:
 - PRIOR TO AND IMMEDIATELY FOLLOWING THE EXCAVATION AND GRADING OF THE REPLICATION AREA AND THE FILLING OF THE EXISTING WETLAND INCLUDING THE SOIL AMENDMENT AND SUBSTRATE RELOCATION PHASES
 - AFTER THE FIRST MONTH FOLLOWING PROJECT COMPLETION AND DURING THE FOLLOWING SPRING BREEDING SEASON
 - DOCUMENTING THE TIMING OF FLOODING AND DRYING WITHIN THE REPLICATED WETLAND
 - DURING THE AMPHIBIAN BREEDING SEASON (MARCH 1 - MAY 15) FOR AT LEAST TWO YEARS FOLLOWING PROJECT COMPLETION DOCUMENTING PRESENCE/NON-PRESENCE OF VERNAL POOL OBLIGATE AND/OR FACULTATIVE BREEDING SPECIES
- 28) MONITORING REPORTS WILL BE SUBMITTED TO THE DEM AFTER EACH MONITORING PERIOD.



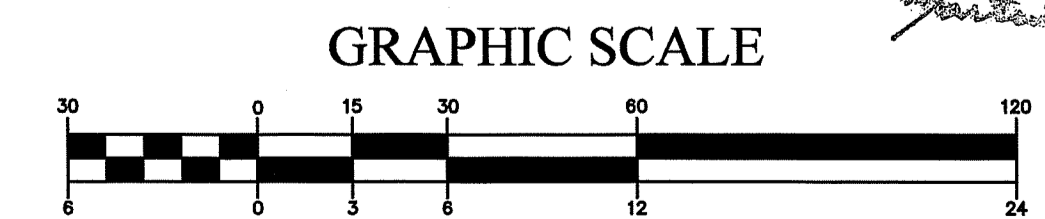
WETLAND REPLICATION AREA CROSS SECTION (A - A) DETAIL



PERVIOUS PAVEMENT AREA CROSS SECTION (E - E) DETAIL



SAND FILTER TRENCH DRAIN DETAIL AT NORTHERLY (REAR) DRY SWALE



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED OCT 03 2019 FILE # 17-0253
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

DEtec.
D'AMICO ENGINEERING TECHNOLOGY, INC.
Civil - Transportation - Land Use
2080 Mineral Spring Ave., North Providence, RI 02911
(401) 822-1470 (401) 353-1190 fax www.damicoeng.com

DAVID M. D'AMICO
No. 6749
REGISTERED PROFESSIONAL ENGINEER
CIVIL
5/11/19

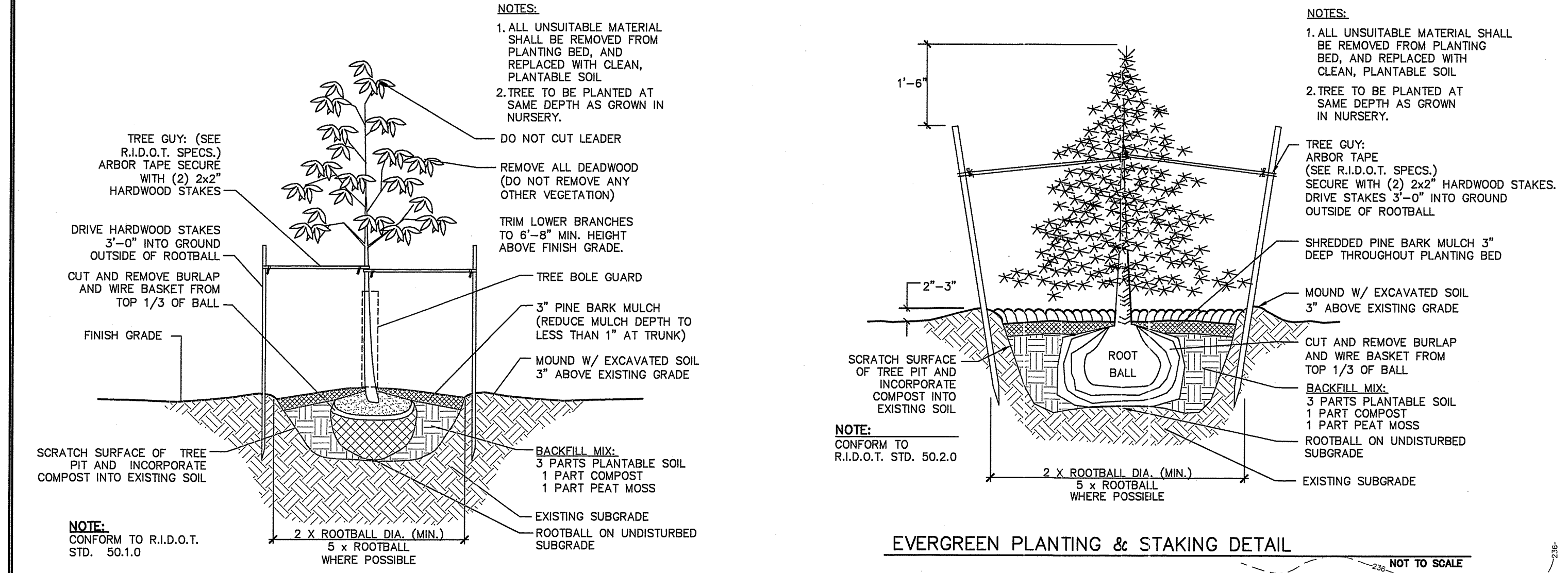
PROPOSED FedEx TERMINAL IMPROVEMENTS
60 AND 70 INDUSTRIAL ROAD
CUMBERLAND, RHODE ISLAND
AP 24, LOTS 296, 289 AND 331

REVISIONS:

| NO. | DATE | DESCRIPTION |
|-----|---------|----------------------------|
| 1 | 8-17-17 | APPL. TO ALTER FWW |
| 2 | 1-24-18 | RIDEM COMMENTS OF 12-1-17 |
| 3 | 5-8-18 | FEDEX COMMENTS OF 2-23-18 |
| 4 | 5-14-18 | RIDEM COMMENTS OF 2-23-18 |
| 5 | 8-10-18 | RIDEM BIO. COM |
| 6 | 8-22-18 | FEDEX COMMENTS |
| 7 | 9-14-18 | FEDEX COMMENTS |
| 8 | 8-29-18 | RIDEM COMMENTS OF 10-25-18 |
| 9 | 3-14-19 | RIDEM COMMENTS OF 2-13-19 |
| 10 | 5-10-19 | RIDEM COMMENTS OF 5-8-19 |

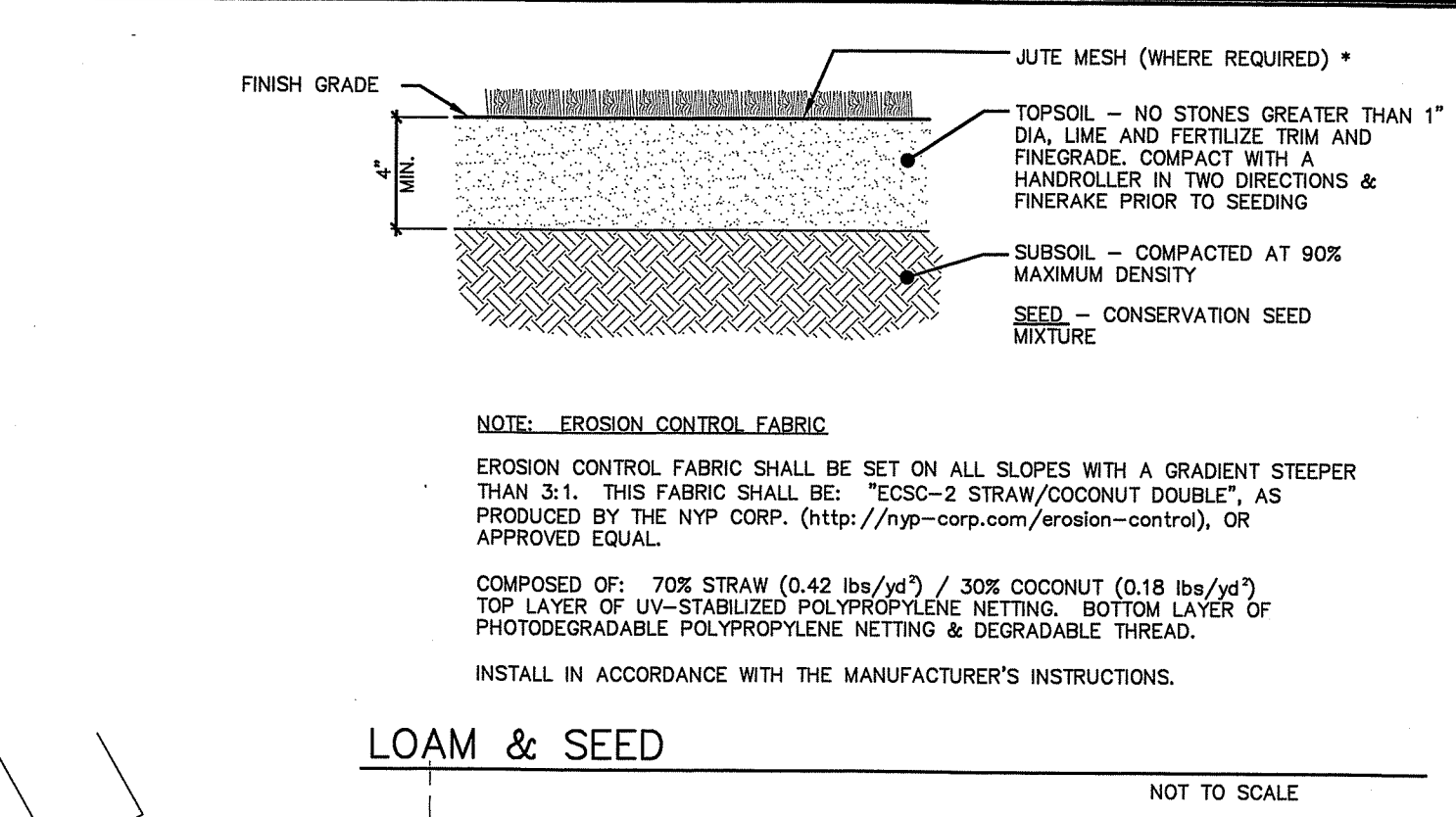
DESIGNED BY: DMD
DRAWN BY:
CHECKED BY: DMD
DATE: AUG. 22, 2018
PROJECT NO: 15-0001-09

PERMIT PLANS
DETAIL PLAN NO. 3
C6.2



PLANT SCHEDULE:

| Key | Botanical Name/ Common Name | Size | Qty | Comment |
|------|--|--------------|-----|---------------------|
| AC | ABIES CONCOLOR White Fir | 7'-8' Ht. | 17 | B & B |
| ACA | AMELANCHIER CANADENSIS Shad Serviceberry | 6'-7' Ht. | 4 | B & B Multi-stem |
| AR | ACER RUBRUM Red Maple | 2'-2.5' Cal. | 3 | B & B |
| AS | ACER SACCHARUM Sugar Maple | 2'-2.5' Cal. | 2 | B & B |
| BN | BETULA NIGRA River Birch | 2'-2.5' Cal. | 3 | B & B Multi-stem |
| LC | CUPRESSOCYPARIS LEYLANDII Leyland Cypress | 7'-8' Ht. | 18 | B & B |
| NS | NYSSA SYLVAICA Black Gum | 2'-2.5' Cal. | 5 | B & B |
| PA | PICEA ABIES Norway Spruce | 7'-8' Ht. | 23 | B & B |
| PSC' | PRUNUS SARGENTII 'COLUMNARIS' Columnar Sargent's Cherry | 2'-2.5' Cal. | 5 | B & B |
| RM | RHOODENDRON MAXIMUM Rosebay Rhododendron | 18"-24" Ht. | 80 | Container |

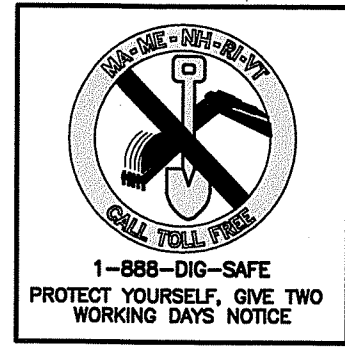


Revisions:

| No. | Revision | Date |
|-----|-------------------------------|------------|
| 1 | UPDATED BASE PLAN | 08-02-2018 |
| 2 | WHEELCHAIR RAMP | 10-09-2018 |
| 3 | EASTERLY WET SWALE VEGETATION | 12-19-2018 |
| 4 | WETLAND FLAGS AND BUFFERS | 3-28-2019 |
| 5 | RIDEM COMMENTS 5-8-19 | 5-10-2019 |

REFERENCES:

- PLAN ENTITLED "PROPOSED FEDEX TERMINAL IMPROVEMENTS 60 AND 70 INDUSTRIAL RD CUMBERLAND, RI AP 24 LOTS 289, 288 & 331 GRADING DRAINAGE AND UTILITY PLAN, SHEET 5 OF 9" PREPARED BY D'AMICO ENGINEERING TECHNOLOGY AND DATED 8-17-17.



FEDEX TRUCKING FACILITY

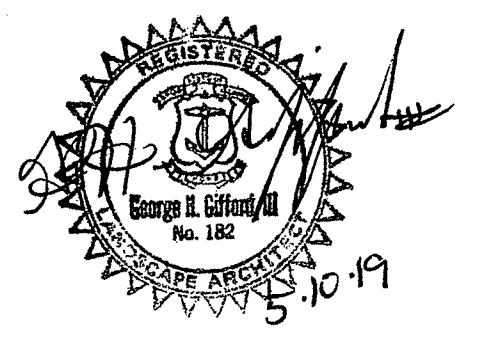
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
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NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
A.P. 24, LOTS 289 & 331
CUMBERLAND, RI

OWNER:
Brad Dean
70 Industrial Road
Cumberland, RI 02864

APPLICANT:
Dean Leasing Corporation
70 Industrial Road
Cumberland, RI 02864

THE GIFFORD DESIGN GROUP, Inc.

LANDSCAPE ARCHITECTURE
ENVIRONMENTAL PLANNING
4095 MENDON ROAD, CUMBERLAND, RHODE ISLAND 02864
P H O N E (401) 671-6336 F A X (401) 671-6466



Environmental Management
MAY 24 2019
Office of Water Resources

LANDSCAPE PLAN

PROJECT NO. 210.335 DRAWING 11 OF 11

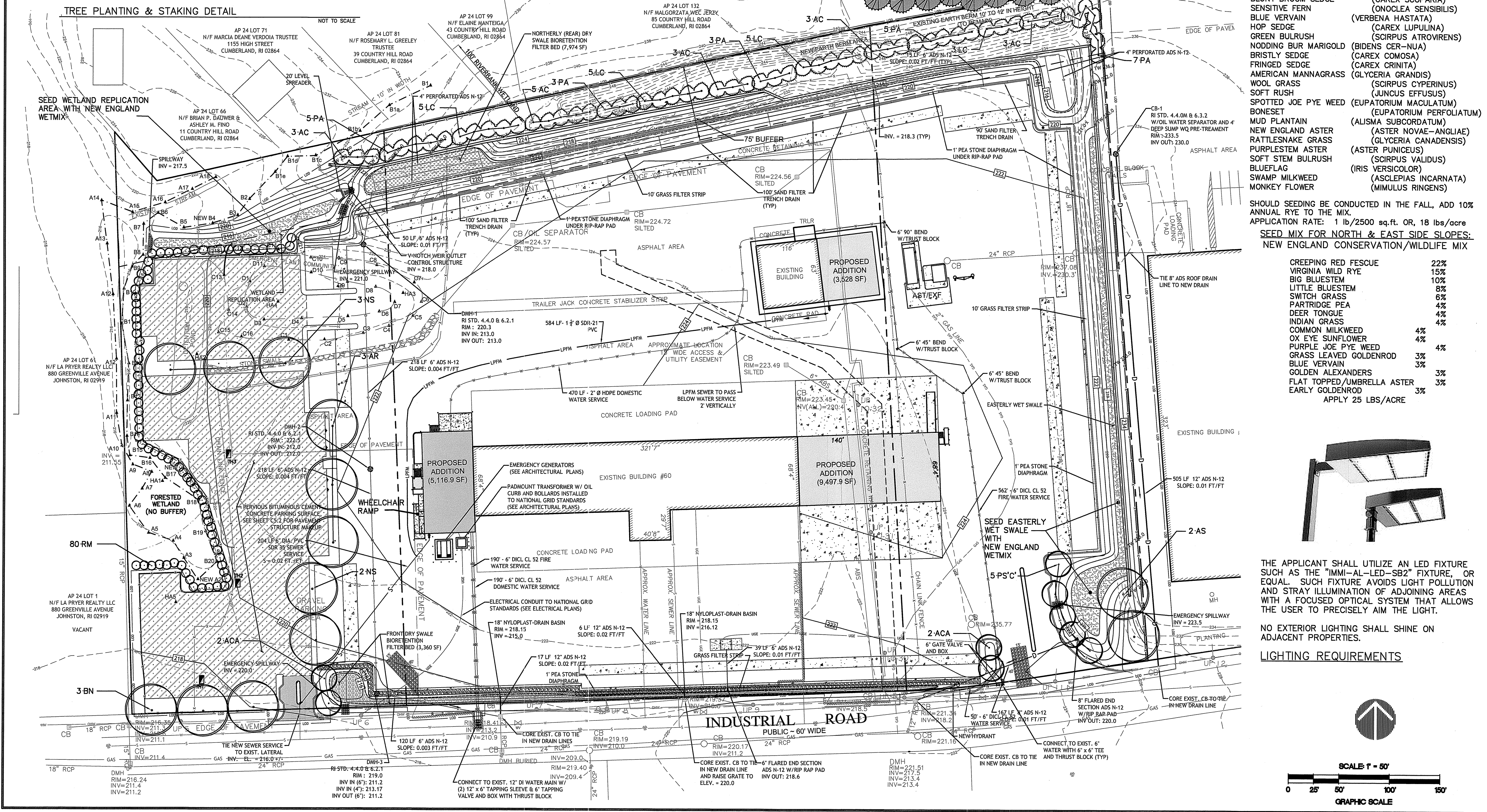
DATE: AUGUST 2017

SCALE: AS SHOWN

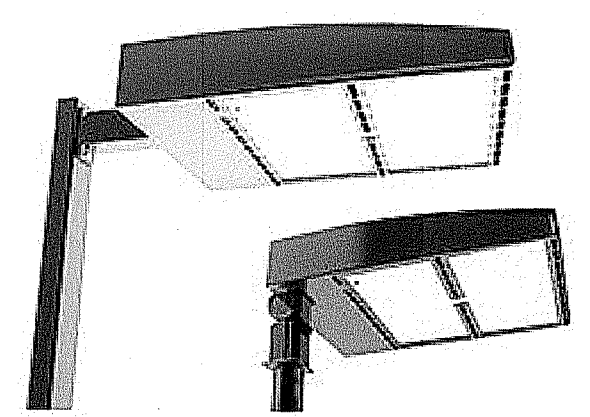
DRAWN BY: CB

CHECKED BY: GHG

DRAWING NO: L-1



- SEED MIX FOR EASTERLY WET SWALE & WETLAND REPLICATION AREA: NEW ENGLAND WETMIX**
- FOX SEDGE (CAREX VULPINOIDEA)
 - LURID SEDGE (CAREX LURIDA)
 - BLUNT BROOM SEDGE (CAREX SCOPARIA)
 - SENSITIVE FERN (ONOCLEA SENSIBILIS)
 - BLUE VERNAIN (VERBENA HASTATA)
 - HOP SEDGE (CAREX LUPULINA)
 - GREEN BULRUSH (SCIRPUS ATROVIRENS)
 - NODDING BUR MARI GOLD (BIDENS CER-NUA)
 - BRISTLY SEDGE (CAREX COMOSA)
 - FRINGED SEDGE (CAREX CRINITA)
 - AMERICAN MANNAGRASS (GLYCERIA GRANDIS)
 - WOOL GRASS (SCIRPUS CYPERINUS)
 - SOFT RUSH (JUNCUS EFFUSUS)
 - SPOTTED JOE PYE WEED (EUPATORIUM MACULATUM)
 - BONESET (EUPATORIUM PERFOLIATUM)
 - MUD PLANTAIN (ALISMA SUBCORDATUM)
 - NEW ENGLAND ASTER (ASTER NOVAE-ANGIAE)
 - RATTLESNAKE GRASS (GLYCERIA CANADENSIS)
 - PURPLESTEM ASTER (ASTER PUNICEUS)
 - SOFT STEM BULRUSH (SCIRPUS VALIDUS)
 - BLUELAG (IRIS VERSICOLOR)
 - SWAMP MILKWEED (ASCLEPIAS INCARNATA)
 - MONKEY FLOWER (MIMULUS RIGENS)
- SHOULD SEEDING BE CONDUCTED IN THE FALL, ADD 10% ANNUAL RYE TO THE MIX.
APPLICATION RATE: 1 lb/2500 sq.ft. OR, 18 lbs/acre
- SEED MIX FOR NORTH & EAST SIDE SLOPES: NEW ENGLAND CONSERVATION/WILDLIFE MIX**
- CREeping RED FESCUE 22%
 - VIRGINIA WILD RYE 15%
 - BIG BLUESTEM 10%
 - LITTLE BLUESTEM 8%
 - SWITCH GRASS 6%
 - PARTRIDGE PEA 4%
 - DEER TONGUE 4%
 - INDIAN GRASS 4%
 - COMMON MILKWEED 4%
 - OX EYE SUNFLOWER 4%
 - PURPLE JOE PYE WEED 4%
 - GRASS LEAVED GOLDENROD 3%
 - BLUE VERNAIN 3%
 - GOLDEN ALEXANDERS 3%
 - FLAT TOPPED UMBRELLA ASTER 3%
 - EARLY GOLDENROD 3%
- APPLY 25 LBS/ACRE



THE APPLICANT SHALL UTILIZE AN LED FIXTURE SUCH AS THE "IMMI-AL-LED-SB2" FIXTURE, OR EQUAL. SUCH FIXTURE AVOIDS LIGHT POLLUTION AND STRAY ILLUMINATION OF ADJOINING AREAS WITH A FOCUSED OPTICAL SYSTEM THAT ALLOWS THE USER TO PRECISELY AIM THE LIGHT.

NO EXTERIOR LIGHTING SHALL SHINE ON ADJACENT PROPERTIES.

LIGHTING REQUIREMENTS

