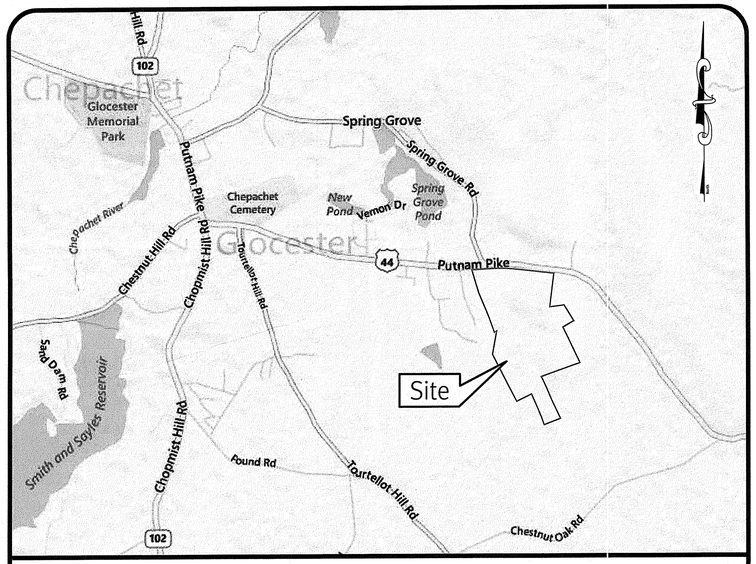
Site Development Plans

Glacier Ridge

Glocester, Rhode Island 02814

Assessor's Plat 14 Lots 10, 11, 12 & 18-20



Location Map 1" = 1500'

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*Plans from plan set entitled "Physical Alteration Permit Application for Glacier Ridge Assessor's Plat 14 Lots 10, 11, 12, & 18-20, Glocester, RI prepared by BETA Group, Inc.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 06 2020 FILE # 15-0176
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

MSGP SESC/ PHASE 1 SESC / O&M
All Soil Erosion and Sediment Control Plans (SESC) and the Operations and Maintenance Plan (O&M) are required documents with this plan set and must be maintained by the contractor and owner onsite.

RIDOT
The Proposed Improvements Will Not Increase the Rate of Stormwater Runoff Onto the State Highway. All Work Within the State Right of Way Must Conform to the RI Standard Specifications, Details, and Addendums.

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DiPrete Engineering
Two Stafford Court Cranston, RI 02920
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Boston • Providence • Newport

BRANDON D. CARR
9801
REGISTERED PROFESSIONAL ENGINEER
CIVIL

This regulatory submission set shall not be used for construction purposes unless stamped 'Issued for Construction' and signed by a DiPrete Engineering representative.

The contractor is responsible for all of the means, methods, safety precautions and requirements, and OSHA conformance in the implementation of this plan and design.

No.	Description	By
6	10-15-2018	RIDEM Response to Comments	D.K.N.
5	9-28-2018	RIDOT Response to Comments	D.K.N.
4	4-11-2018	RIDOT Response to Comments	D.K.N.
3	6-2-2017	RIDEM Master Plan Response to Comments	D.K.N.
2	12-23-2015	RIDEM Master Plan Submission	D.K.N.
1	8-31-2015	Site Suitability Submission	B.F.L.
0	8-30-2015	RIDEM Pre-Application Submission	B.F.L.

Drawn By: B.F.L.
Design By: B.D.C.
Date: 8-31-15

Cover Sheet

Glacier Ridge

Assessor's Plat 14 Lots 10, 11, 12, & 18-20
Glocester, Rhode Island 02814

Applicant
Adler Brothers Construction Co.
604 Putnam Pike, Greenville, Rhode Island 02828

SHEET 1 OF 33

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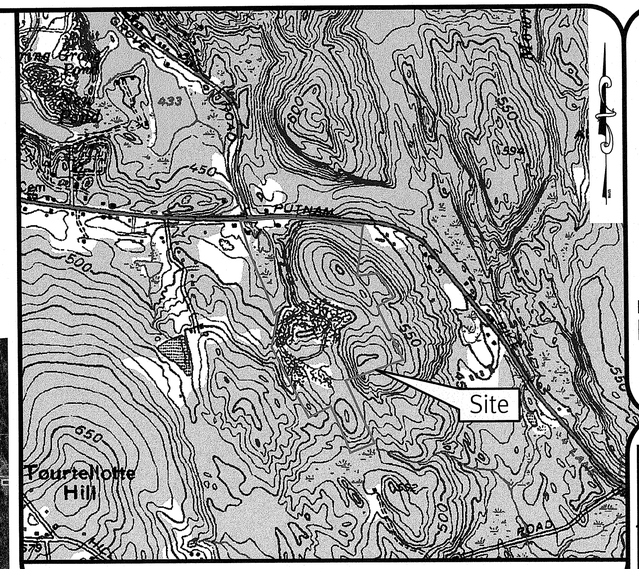
Scale: 1"=400'
0 200' 400' 800'



USGS Map Scale: 1"=1000'

Photo obtained from the RI-GIS.

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
A COPY OF THIS APPROVAL
IS PRESENT ON THE SITE OF APPROVAL
DATED MAY 0 6 2019 FILE NO. 15-0176
NO CHANGES MAY BE MADE IN THE PLAN PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

THIS SUBMISSION SET SHALL NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS STAMPED 'ISSUED FOR CONSTRUCTION' AND SIGNED BY A DIPRETE ENGINEERING REPRESENTATIVE.

THE CONTRACTOR IS RESPONSIBLE FOR ALL OF THE MEANS, METHODS, SAFETY PRECAUTIONS AND REQUIREMENTS, AND OSHA CONFORMANCE IN THE IMPLEMENTATION OF THIS PLAN AND DESIGN.

DiPrete Engineering
Two Stafford Court Cranston, RI 02920
tel 401-943-1000 fax 401-464-6006 www.diprete-eng.com
Boston • Providence • Newport

BRANDON D. CARR
9801
10/15/18
REGISTERED PROFESSIONAL ENGINEER
CIVIL

This regulatory submission set shall not be used for construction purposes unless stamped 'Issued for Construction' and signed by a DiPrete Engineering representative.

The contractor is responsible for all of the means, methods, safety precautions and requirements, and OSHA conformance in the implementation of this plan and design.

No.	Date	Description	By
6	10-15-2018	RIDEM Response to Comments	LAC
5	5-6-2018	RIDEM Response to Comments	DKN
4	12-14-2017	RIDEM Response to Comments	DKN
3	8-4-2017	RIDEM Master Plan Response to Comments	DKN
2	8-3-2015	Site Sumbission Submission	BFA
1	6-26-2015	RIDEM NDOH Submissions	LAC
0	5-19-2015	RIDEM NDOH Submissions	LAC

Half Mile Aerial & USGS Map

Glacier Ridge

Assessor's Plat 14 Lots 10, 11, 12, & 18-20
Glocester, Rhode Island 02814

Applicant
Adler Brothers Construction Co.
604 Putnam Pike, Greenville, Rhode Island 02828

SHEET 2 OF 33

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General Notes:

1. THE SITE IS LOCATED ON THE TOWN OF GLOCESTER ASSESSOR'S PLAT 14 LOT 10, 11, 12 & 18-20.
2. THE SITE IS APPROXIMATELY 92.69± ACRES AND IS ZONED I AND B-2.
3. THE OWNER OF AP 14 LOTS 12 & 18-20 IS:

   ADLER BROTHERS CONSTRUCTION CO.
   604 PUTNAM PIKE #1
   GREENVILLE, RI 02828

   THE OWNER OF AP 14 LOT 11 IS:

   ADLER BROS DEVELOPMENT LLC
   604 PUTNAM PIKE
   GREENVILLE, RI 02828

   THE OWNER OF AP 14 LOT 10 IS:

   ADLER PROPERTIES LLC
   604 PUTNAM PIKE
   GREENVILLE, RI 02828
4. EXISTING ZONING: LOTS 10, 11, 12 AND A PORTION OF LOT 18 ARE ZONED B-2 LOTS 18-20 ARE ZONED I AND A PORTION OF LOT 18 IS ZONED B-2.
5. THIS SITE IS LOCATED IN FEMA FLOOD ZONES X. REFERENCE FEMA FLOOD INSURANCE RATE MAP 44007C0145G, MAP REVISED MARCH 2, 2009. ZONE X – THIS SITE IS LOCATED IN FEMA FLOOD ZONE X. ZONE X ARE AREAS WHERE THERE IS MINIMAL FLOODING.
6. SOIL MAPPING OBTAINED FROM SOIL SURVEY OF RHODE ISLAND, PREPARED BY U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE.
7. SITE FEATURES ARE A COMPILATION OF GIS MAPPING, FIELD SURVEY BY DIPRETE ENGINEERING AND PLAN REFERENCES.
8. THE TOPOGRAPHY ON THIS PLAN WAS PREPARED BY COL-EAST, INC., USING AERIAL PHOTOGRAPHS, DATED: 12/13/13. THE HORIZONTAL AND VERTICAL CONTROL WORK WAS ORIGINALLY PERFORMED BY MARC N. NYBERG ASSOCIATES, INC. ELEVATIONS IN U.S. SURVEY FEET ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88). THE MAP HAS BEEN PREPARED TO CONFORM TO THE ASPRS STANDARDS FOR A CLASS 2 MAP (ACCURACY TO 2/3RDS THE CONTOUR INTERVAL) AS STATED IN THE "PROCEDURAL AND TECHNICAL STANDARDS FOR THE PRACTICE OF LAND SURVEYING IN THE STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS, EFFECTIVE DATE: APRIL 1, 1994." AFTER SITE CLEARING, BUT PRIOR TO CONSTRUCTION, THE GRADES, ELEVATIONS, AND LOCATIONS WILL BE FIELD VERIFIED BY THE CONTRACTOR AND ANY DIFFERENCES PRESENTED TO DIPRETE ENGINEERING. IT IS ESSENTIAL THAT ANY DISCREPANCIES IN THE MAPPING BE DEALT WITH PRIOR TO CONSTRUCTION COMMENCEMENT.
9. THE BOUNDARY LINE AS SHOWN ON THIS PLAN DEPICTS A CLASS I SURVEY AS PERFORMED BY LAND USE SPECIALISTS, INC. THE PLAN ITSELF CONFORMS ONLY TO A CLASS IV STANDARD AS ADOPTED BY RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS. THIS PLAN IS NOT TO BE CONSTRUED AS A CLASS I BOUNDARY PLAN AND IS NOT SUITABLE FOR RECORDING AS A CLASS I STANDARD.
10. ASSESSOR'S PROPERTY LINES TAKEN FROM THE TOWN OF GLOCESTER WEBSITE AND SHOULD BE CONSIDERED APPROXIMATE.
11. WETLAND DELINEATION PERFORMED BY DIPRETE ENGINEERING ON APRIL 16, 2014 AND MAY 13, 2014.
12. THE SITE IS NOT LOCATED WITHIN A NATURAL HERITAGE AREA.
13. THE SITE IS WITHIN A:
    NON-COMMUNITY WELLHEAD PROTECTION AREA (RIDEM)
    SURFACE WATER PROTECTION AREA
    GROUNDWATER RECHARGE AREA
14. THE FOLLOWING DOCUMENTS ARE CONSIDERED PART OF THE PROJECT PLANS AND THE CONTRACTOR/ OWNER MUST MAINTAIN THESE DOCUMENTS AS PART OF A FULL PLAN SET:
    - MSGP SOIL EROSION AND SEDIMENT CONTROL PLAN (SESC). THE MSGP SESC CONTAINS THE FOLLOWING FOR ALL ACTIVE GRAVEL OPERATIONS:
      - EROSION CONTROL MEASURES
      - SHORT TERM MAINTENANCE
      - ESTABLISHMENT OF VEGETATIVE COVER
      - CONSTRUCTION POLLUTION PREVENTION
      - SEQUENCE OF CONSTRUCTION
    - PHASE 1 SOIL EROSION AND SEDIMENT CONTROL PLAN. THE SESC CONTAINS THE FOLLOWING:
      - EROSION CONTROL MEASURES
      - SHORT TERM MAINTENANCE
      - ESTABLISHMENT OF VEGETATIVE COVER
      - CONSTRUCTION POLLUTION PREVENTION
      - SEQUENCE OF CONSTRUCTION
    - OPERATIONS AND MAINTENANCE PLAN (O&M). THE O&M CONTAINS THE FOLLOWING:
      - LONG TERM MAINTENANCE
      - LONG TERM POLLUTION PREVENTION
15. THIS PLAN SET REFERENCES RIDOT STANDARD DETAILS (DESIGNATED AS RIDOT STD X.X.X.). RIDOT STANDARD DETAILS ARE AVAILABLE FROM RIDOT AND ONLINE AT: WWW.DOT.STATE.RI.US/ENGINEERING/STANDARDS/INDEX.ASP.
16. THE SITE IS TO BE SERVICED BY PUBLIC AND PRIVATE WELLS AND PRIVATE OWTS.
17. PROPOSED RIGHTS OF WAY ARE TO BE 50' WIDE WITH 32' WIDE PAVEMENT (15' TRAVEL LANES AND 1' OF BERM ON EACH SIDE).
18. THE DRAINAGE SYSTEM IS DESIGNED TO MEET THE TOWN OF GLOCESTER SUBDIVISION AND LAND DEVELOPMENT REGULATIONS WITH THE USE OF CATCH BASINS, CULVERTS, AND DRAINAGE BASINS. THE STORMWATER MANAGEMENT SYSTEM MEETS THE RIDEM BEST MANAGEMENT PRACTICES.
19. THE SITE IS PROPOSED TO BE BUILT IN MULTIPLE PHASES.
20. THERE ARE NO EXISTING HIKING, BIKING, OR BRIDLE TRAILS OBSERVED WITHIN AND ADJACENT TO SITE. THERE ARE NO EXISTING BOAT LAUNCHES, LAKE AND STREAM ACCESS POINTS, BEACHES OR WATER TRAILS WITHIN SITE.
21. TEST PITS AND SOIL EVALUATIONS WERE COMPLETED BY DIPRETE ENGINEERING.

Soil Information:

(REFERENCE: USDA NATURAL RESOURCES CONSERVATION SERVICE)

SOIL NAME	DESCRIPTION
CaC	CANTON-CHARLTON-ROCK OUTCROP COMPLEX, 3 TO 15 PERCENT SLOPES
CaD	CANTON-CHARLTON-ROCK OUTCROP COMPLEX, 15 TO 35 PERCENT SLOPES
HkC	HINCKLEY GRAVELLY SANDY LOAM, ROLLING
Pg	PITS, GRAVEL

RIDOT Notes:

1. ALL WORK TO BE DONE WITHIN THE STATE RIGHT OF WAY (ROW) SHALL CONFORM TO RI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AMENDED AUGUST 2013 WITH ALL REVISIONS AND ADDENDA. STANDARD DETAILS FOR THIS WORK ARE RI STANDARD DETAILS 1998 EDITIONS WITH ALL REVISIONS.
2. ALL TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, INCLUDING ALL REVISIONS.
3. NO LANE OR SHOULDER CLOSURES SHALL BE PERFORMED WITHIN THE STATE'S R.O.W. DURING PEAK TRAFFIC HOURS.
4. THE DRAINAGE SYSTEM IS DESIGNED TO DECREASE BOTH STORMWATER RUNOFF RATE, AND STORMWATER RUNOFF VOLUME TO THE STATE RIGHT-OF-WAY FROM PRE-DEVELOPMENT TO POST-DEVELOPMENT. THERE WILL BE NO INCREASE IN RUNOFF TO THE STATE RIGHT OF WAY FROM THE PROPOSED DEVELOPMENT.

Demolition Notes:

1. THE LIMIT OF DEMOLITION SHALL BE THE PROPERTY LINE UNLESS SPECIFICALLY CALLED OUT AS "LOD" OR "LIMIT OF DISTURBANCE" ON THE PLANS.
2. SITE CONTRACTOR TO OBTAIN ALL FEDERAL, STATE, AND MUNICIPAL APPROVALS PRIOR TO THE START OF CONSTRUCTION.
3. SITE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND LEGALLY DISPOSING (R&D) ALL MATERIALS INDICATED ON THE PLANS UNLESS SPECIFIED OTHERWISE HERE IN. R&D MATERIALS TO INCLUDE BUT NOT LIMITED TO PAVEMENT, GRAVEL, CATCH BASINS, MANHOLES, GRATES/FRAMES/COVERS, AND ANY EXCESS SOIL THAT IS NOT INCORPORATED INTO THE WORK.
4. IN ADDITION TO THOSE AREAS SPECIFICALLY DESIGNATED ON THE PLANS, ALL DISTURBED AREAS INCLUDING THE SITE CONTRACTOR'S STOCKPILE AND STAGING AREAS WITHIN THE LIMIT OF WORK SHALL BE RESTORED TO MATCH THE DESIGN PLANS.
5. CONTRACTOR TO LOCATE AND STAKE LIMIT OF WORK IN THE FIELD PRIOR TO CLEARING ANY VEGETATION AND NOTIFY SITE ENGINEER WHEN COMPLETE.
6. THE SITE CONTRACTOR SHALL KEEP ADJOINING STREETS AND PROPERTIES FREE OF DEBRIS RESULTING FROM THE DEMOLITION AND SHALL BROOM AND/OR WATER CLEAN ON A DAILY BASIS IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.
7. HOURS OF CONSTRUCTION OPERATIONS ARE TO BE PER LOCAL ORDINANCES.
8. THE SITE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND PROTECTING ALL EXISTING SITE FEATURES TO REMAIN. ANY DAMAGE TO SAID FEATURES SHALL BE REPAIRED OR REPLACED AT THE OWNER'S DISCRETION AND AT THE SITE CONTRACTOR'S EXPENSE.
9. AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO EXCAVATION, THE SITE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES AND/OR ALL LOCAL, STATE AND FEDERAL AGENCIES WHOSE FACILITIES MIGHT BE AFFECTED BY ANY WORK TO BE PERFORMED BY THE SITE CONTRACTOR.
10. THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL DUMPED MATERIALS FROM THE PROJECT (INCLUDING BUT NOT LIMITED TO GARBAGE, TRASH AND LIKE MATERIAL) AND THE PROPER DISPOSAL OF SAID MATERIAL IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.
11. THE SITE CONTRACTOR SHALL NOT REMOVE ANY ITEMS WITHIN THE STREET INCLUDING BUT NOT LIMITED TO SIGNAGE, UTILITY POLES, UTILITIES FEEDING OTHER SITES, FENCING, ETC. WITHOUT WRITTEN APPROVAL FROM THE OWNER(S) OF THE RESPECTIVE RIGHTS-OF-WAY AND UTILITY COMPANIES HAVING JURISDICTION.
12. THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EXISTING UTILITIES TO REMAIN AND PROTECTING SAME AGAINST DAMAGE DURING DEMOLITION OPERATIONS. THE SITE CONTRACTOR IS RESPONSIBLE FOR ALL REPLACEMENT AND COORDINATION COSTS ASSOCIATED WITH ANY DAMAGE TO EXISTING ACTIVE UTILITIES.
13. THE SITE CONTRACTOR SHALL FURNISH, ERECT AND MAINTAIN ALL TEMPORARY BARRICADES, FENCES, COVERINGS, ENCLOSURES, SIGNS AND LIGHTING AS MAY BE REQUIRED TO CARRY ON DEMOLITION WORK IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.
14. WHILE DEMOLITION AND CONSTRUCTION IS BEING PERFORMED, THE SITE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS PERTAINING TO HAULING/DISPOSAL OF DEMOLITION DEBRIS AND PUBLIC SAFETY
15. THE SITE CONTRACTOR SHALL MAKE ALL NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN ALL NECESSARY PERMITS, PAY ALL FEES AND POST ALL BONDS ASSOCIATED WITH THE DEMOLITION WORK INDICATED ON THESE PLANS.
16. THE SITE CONTRACTOR SHALL MAINTAIN ADEQUATE FIRE PROTECTION DURING DEMOLITION AND CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH FIRE DEPARTMENT REQUIREMENTS.

Soil Erosion and Sediment Control Notes:

1. FOR ALL SOIL EROSION AND SEDIMENT CONTROLS RELATED TO THE ACTIVE GRAVEL OPERATIONS REFER TO THE SESC PLAN AS PART OF THE APPROVED MSGP PERMIT.
2. ALL EROSION CONTROL, TEMPORARY SWALES, TEMPORARY SEDIMENTATION PONDS, ETC. SHALL BE INSTALLED PER THE RHODE ISLAND SOIL EROSION AND SEDIMENTATION CONTROL LATEST EDITION AND THE SOIL EROSION SEDIMENTATION CONTROL PLAN (SESC).
3. TEMPORARY SWALES SHALL BE USED TO CONTROL RUNOFF DURING CONSTRUCTION OF THE PROPOSED ROADWAY. TEMPORARY SWALES SHALL BE VEGETATED AFTER CONSTRUCTION. EROSION CONTROL MATS SHALL BE INSTALLED IF NECESSARY TO PREVENT EROSION AND SUPPORT VEGETATION. AFTER CONSTRUCTION IS COMPLETE AND TRIBUTARY AREAS TO THE SWALES HAVE BEEN STABILIZED, THE TEMPORARY SWALES SHALL BE CLEARED AND FINAL DESIGN, INCLUDING INSTALLATION OF THE GRASS SWALE SHALL BE PER THE DESIGN PLANS.
4. ONCE THE SEDIMENTATION BASIN IS NO LONGER REQUIRED AND ALL TRIBUTARY AREAS HAVE BEEN STABILIZED, THE TEMPORARY SEDIMENTATION BASIN SHALL CLEANED AND BROUGHT TO FINAL DESIGN GRADES.
5. SITE CONTRACTOR SHALL STAKEOUT AND PROTECT ANY PROPOSED INFILTRATION AREAS PRIOR TO CONSTRUCTION. CONSTRUCTION TRAFFIC IS NOT ALLOWED WITHIN INFILTRATION AREAS. THIS INCLUDES POND COMPLEXES A & B. AREAS SHALL BE PROTECTED FROM RUNOFF DURING CONSTRUCTION AND CANNOT BE USED AS TEMPORARY SEDIMENTATION AREAS DURING CONSTRUCTION. SILT FENCE SHALL BE USED TO PROTECT INFILTRATION AREAS FROM RUNOFF. CONSTRUCTION FENCING CAN BE USED TO PROTECT AREAS FROM CONSTRUCTION TRAFFIC.
6. SEE SECTION 2.2 OF THE SESC FOR PROJECT/CONSTRUCTION PHASING AND SEQUENCE OF CONSTRUCTION ACTIVITY. CONTRACTOR MAY MODIFY SEQUENCE OF CONSTRUCTION WITH APPROVAL FROM DESIGN ENGINEER.
7. TEMPORARY SEDIMENT BASINS MUST BE DEWATERED USING A DEVICE THAT DISCHARGES WATER FROM THE TOP OF THE DEWATERING ZONE. A SKIMMER SHALL BE PROVIDED FOR EACH TEMPORARY SEDIMENTATION BASIN SEE SEDIMENTATION BASIN DETAIL.
8. THE SITE CONTRACTOR SHALL PLACE EROSION CONTROLS PRIOR TO DEMOLITION AND MAINTAIN THESE EROSION CONTROLS THROUGHOUT DURATION OF THE PROJECT.
9. CONTRACTOR TO PROVIDE INLET SEDIMENT CONTROL AND STORMWATER FILTRATION DEVICES AT ALL EXISTING CATCH BASINS DOWNGRADIENT FROM THE LIMIT OF WORK.
10. STOCKPILE AND CONCRETE WASHOUT LOCATIONS TO BE DETERMINED BY CIVIL ENGINEER, AND SITE CONTRACTOR PRIOR TO CONSTRUCTION. NO STOCKPILING OF MATERIAL TO BE LOCATED IN RIGHT OF WAY AND NO OPEN TRENCHES ARE TO BE LEFT OVERNIGHT. ALL EXCESS SOIL, TREES, ROCKS, BOULDERS, AND OTHER REFUSE, SHALL BE DISCARDED OFF SITE AS DIRECTED BY THE OWNER.
11. SITE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL. DUST CONTROL TREATMENTS SHALL BE APPLIED AS NECESSARY TO CONTROL AND REDUCE THE AMOUNT OF DUST THAT MAY CAUSE OFF SITE DAMAGE. BE A HEALTH HAZARD TO HUMANS, WILDLIFE, AND PLANT LIFE, OR POSE A HAZARD TO TRAFFIC SAFETY. DUST CONTROL TREATMENTS SHALL BE CONSISTENT WITH RIDEM BEST MANAGEMENT PRACTICES.

RIDEM Site Suitability Notes:

1. EXISTING KNOWN PUBLIC WELLS ARE AS SHOWN ON THE PLANS PER PLANS OF RECORD OR SITE INVESTIGATION. ACTUAL LOCATIONS OF THE EXISTING WELLS MAY VARY.
2. THE EXISTING PUBLIC WELL AS SHOWN WILL BE SUBMITTED TO BE REPURPOSED FOR IRRIGATION FOR THE PROPOSED DEVELOPMENT AND PERMITTED VIA RIDOH.
3. THE EXISTING OWTS SYSTEM ON AP 14 LOT 12 WILL BE RELOCATED. THE PROPOSED OWTS WILL NOT OR SHALL NOT BE PLACED WITHIN THE 300' OF THE PROPOSED PUBLIC WELL.

As-Built Notes:

1. ALL COMPONENTS OF THE DRAINAGE, WATER, ELECTRIC AND SEWER SYSTEMS MUST BE AS-BUILT PRIOR TO COVERING. SITE CONTRACTOR IS RESPONSIBLE FOR PROVIDING CERTIFIED AS-BUILTS, SIGNED BY A LICENSED RHODE ISLAND PROFESSIONAL ENGINEER, AT THE CONCLUSION OF CONSTRUCTION.

Grading and Utility Notes:

1. THE CONTRACTOR IS RESPONSIBLE FOR ALL SOIL EROSION AND SEDIMENT CONTROL ONSITE. THE CONTRACTOR IS TO NOTIFY THE DESIGN ENGINEER, THE DIRECTOR OF PUBLIC WORKS, THE TOWN ENGINEER, AND RI DEPT. OF ENVIRONMENTAL MANAGEMENT AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
2. CONTRACTOR TO OBTAIN ALL FEDERAL, STATE, AND MUNICIPAL APPROVALS PRIOR TO THE START OF CONSTRUCTION.
3. CONSTRUCTION TO COMMENCE WINTER 2017 OR UPON RECEIPT OF ALL NECESSARY APPROVALS.
4. ALL WORK PERFORMED HEREIN SHALL BE GOVERNED BY THE RHODE ISLAND STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION AND TOWN OF GLOCESTER STANDARD SPECIFICATIONS AND DETAILS.
5. SEQUENCE OF CONSTRUCTION PROVIDED/SHOWN IN SESC MAY BE MODIFIED AS FIELD CONDITIONS WARRANT WITH PRIOR APPROVAL FROM THE OWNER OR OWNER'S REPRESENTATIVE.
6. THE CONTRACTOR SHALL COORDINATE WITH ALL OF THE APPROPRIATE UTILITY COMPANIES FOR AGREEMENTS TO SERVICE THE PROPOSED BUILDING. THIS SHALL BE DONE PRIOR TO CONSTRUCTION. NO REPRESENTATIONS ARE MADE BY DIPRETE ENGINEERING THAT UTILITY SERVICE IS AVAILABLE.
7. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING FINISH GRADING AND DRAINAGE AROUND THE BUILDING TO ENSURE SURFACE WATER AND/OR GROUND WATER ARE DIRECTED AWAY FROM THE STRUCTURE.
8. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL VERIFY EXISTING PAVEMENT ELEVATIONS AT INTERFACE WITH PROPOSED PAVEMENTS, AND EXISTING GROUND ELEVATIONS ADJACENT TO DRAINAGE OUTLETS TO ASSURE PROPER TRANSITIONS BETWEEN EXISTING AND PROPOSED FACILITIES.
9. ALL PROPOSED UNDERGROUND UTILITIES SERVING THE SITE AND BUILDINGS TO BE COORDINATED WITH APPLICANT, ARCHITECT, AND ENGINEER PRIOR TO INSTALLATION.
10. ALL TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION INCLUDING ALL REVISIONS.
11. ALL RETAINING WALLS AND STEEP SLOPES ARE SHOWN SCHEMATICALLY ONLY AND DIPRETE ENGINEERING IS NOT PROVIDING THE DESIGN OF THESE ITEMS. THE ACTUAL WALLS AND SLOPES ARE TO BE BUILT UNDER THE DIRECTION OF A GEOTECHNICAL ENGINEER AND CERTIFIED TO THE OWNER PRIOR TO THE COMPLETION OF THE PROJECT. SHOP DRAWINGS TO BE SUBMITTED PRIOR TO CONSTRUCTION.
12. ALL CUT AND FILL AREAS ARE TO BE DONE UNDER THE DIRECTION OF A GEOTECHNICAL ENGINEER WITH TESTING AND CERTIFICATION TO BE PROVIDED TO THE APPLICANT AT THE COMPLETION OF THE PROJECT. DIPRETE ENGINEERING ASSOCIATES, INC. IS NOT PROVIDING THE FILL AND CUT SPECIFICATIONS, GEOTECHNICAL ENGINEERING, STRUCTURAL ENGINEERING SERVICES, OR SUPERVISION AS PART OF THESE DRAWINGS.
13. ALL COMPONENTS OF THE DRAINAGE, SEWER AND WATER SYSTEMS MUST BE ASBUILT PRIOR TO COVERING. ENGINEER TO BE NOTIFIED PRIOR TO COVERING TO SURVEY ASBUILT LOCATIONS. ENGINEER WILL NOT ACCEPT FIELD MEASUREMENTS FROM THE SITE CONTRACTOR.
14. NO STOCKPILING OF MATERIAL TO BE LOCATED IN THE RIGHT OF WAY AND NO OPEN TRENCHES ARE TO BE LEFT OVERNIGHT.
15. ALL LOAM IN DISTURBED AREAS TO BE STOCKPILED FOR FUTURE USE.
16. ALL EXCESS SOIL, TREES, ROCKS, BOULDERS, AND OTHER REFUSE, SHALL BE DISCARDED OFF SITE IN AN ACCEPTABLE MANNER AT AN APPROVED LOCATION. STUMPS SHALL BE GROUND ONSITE OR REMOVED.
17. NO STUMP DUMPS ARE PROPOSED ONSITE.
18. IF CONCRETE TRUCKS ARE WASHED OUT ONSITE, ALL WASHOUT MUST BE COMPLETED IN THE DESIGNATED CONCRETE WASHOUT AREA.
19. ALL EXISTING UTILITIES SHOWN ARE FROM VISIBLE INFORMATION, DRAWINGS FROM OTHERS, OR INFORMATION PROVIDED TO DIPRETE ENGINEERING AND ARE SUBJECT TO CHANGE. THE LOCATIONS OF UNDERGROUND PIPES AND CONDUITS HAVE BEEN DETERMINED FROM AFOREMENTIONED PLANS OF RECORD AND ARE APPROXIMATE ONLY. PRIOR TO CONSTRUCTION, THE PROPER UTILITY ENGINEERING DEPARTMENTS SHALL BE CONTACTED AND THE ACTUAL LOCATION OF SUBSURFACE STRUCTURES SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR. CALL THE DIG SAFE CENTER TOLL FREE AT 1-888-344-7233 72 HOURS PRIOR TO EXCAVATION. NOTIFY DESIGN ENGINEER OF ANY DISCREPANCIES PRIOR TO EXCAVATION. ANY DAMAGE TO UTILITIES WHICH ARE SHOWN ON THE PLANS OR DETAILED BY DIG SAFE SHALL BE THE SITE CONTRACTORS RESPONSIBILITY.
20. PROPOSED DRAINAGE PIPES ARE HDPE PIPES UNLESS OTHERWISE NOTED.
21. WATER, ELECTRIC, TELEPHONE AND CABLE UTILITIES ARE SHOWN CONCEPTUALLY ONLY. CONTRACTOR TO COORDINATE FINAL DESIGN WITH APPROPRIATE UTILITY COMPANY. ALL WORK SHALL BE IN ACCORDANCE WITH EACH UTILITY COMPANY'S STANDARDS AND DETAILS AS WELL AS LOCAL AND FEDERAL REGULATIONS. THIS INCLUDES BUT IS NOT LIMITED TO, TRANSFORMERS, PULL BOXES, CONCRETE PADS, CONCRETE ENCASEMENTS AND CONDUITS.
22. IN ORDER TO PREVENT GROUNDWATER FROM BEING CONVEYED ALONG UTILITY TRENCHES, AN IMPERMEABLE BARRIER SHALL BE INCORPORATED INTO ANY UTILITY TRENCH WHERE THE UTILITY TRENCH INTERCEPTS GROUNDWATER. SPACING OF THE IMPERMEABLE BARRIERS IS TO BE AT THE DIRECTION OF THE DESIGN ENGINEER BASED ON THE SITE CONDITIONS.
23. ALL FLARED ENDS SHALL BE INSTALLED AT GRADE. CONTRACTOR TO VERIFY EXISTING GRADE AT OUTFALLS PRIOR TO CONSTRUCTION AND NOTIFY DESIGN ENGINEER OF ANY DISCREPANCIES WITH DESIGN PLANS. SOME VERTICAL AND HORIZONTAL ADJUSTMENTS MAY BE NECESSARY.
24. DE PERFORMED SITE WIDE SOIL EVALUATIONS FOR DEPTH OF GROUNDWATER AND LEDGE ELEVATIONS. GROUNDWATER AND LEDGE ELEVATIONS ARE VARIABLE SITE WIDE. CONTRACTOR TO VERIFY GROUNDWATER AND LEDGE ELEVATIONS FOR THE CONSTRUCTION OF THE PROPOSED ROADWAY AND BMPS PRIOR TO CONSTRUCTION AND REPORT FINDINGS TO THE DESIGN ENGINEER. LEDGE AND GROUNDWATER TABLE DEPTHS SHOWN ON PLANS ARE REPRESENTATIVE OF THOSE SPECIFIC LOCATIONS ONLY.
25. WHERE LEDGE IS ENCOUNTERED IN A PROPOSED CUT CONDITION, PROPOSED SLOPES CAN BE REPLACED WITH ROCK CUT SLOPES WITH DIRECTION AND APPROVAL FROM THE GEOTECHNICAL ENGINEER AND DESIGN ENGINEER AS WARRANTED BY SITE CONDITIONS.
26. CLEARING AND GRUBBING IS NOT TO EXTEND BEYOND THE LIMIT OF DISTURBANCE.
27. ALL INLETS TO USE SILT SACKS OR APPROVED EQUAL INLET PROTECTION DURING CONSTRUCTION. ALL INLETS TO BE MAINTAINED DURING CONSTRUCTION.
28. ALL CATCH BASINS ARE TO BE 4' DIAMETER MINIMUM WITH 3 FOOT SUMP MINIMUM UNLESS OTHERWISE NOTED.
    ALL CATCH BASIN'S TO BE RIDOT STD. 4.4.0.
    MANHOLE'S TO BE RIDOT STD. 4.2.0, 4.2.1 OR 4.2.2 AS REQUIRED
    ALL SINGLE FRAME CATCHBASIN GRATES TO BE RIDOT STD. 6.3.2.
    ALL DOUBLE FRAME CATCHBASIN GRATES TO BE RIDOT STD. 6.3.2.
    ALL DRAINAGE MANHOLE COVERS TO BE RIDOT STD 6.2.0
29. SITE CONTRACTOR SHALL STAKEOUT OUT ANY PROPOSED INFILTRATION AREAS PRIOR TO CONSTRUCTION. CONSTRUCTION TRAFFIC IS NOT ALLOWED WITHIN INFILTRATION AREAS OR OTHER DRAINAGE BMP LOCATIONS. AREAS SHALL BE PROTECTED FROM RUNOFF DURING CONSTRUCTION AND CANNOT BE USED AS TEMPORARY SEDIMENTATION AREAS DURING CONSTRUCTION.
30. ALL STORM DRAINAGE PIPING LOCATED IN AREAS OF SEASONAL HIGH GROUND WATER SHALL BE WATER TIGHT.
31. SITE LIGHTING SHALL BE DIRECTED AWAY FROM AND SHIELDED FROM ENVIRONMENTALLY SENSITIVE AREAS AND ABUTTING LANDS. EXACT LOCATIONS OF LIGHT POLE TO BE COORDINATED WITH OTHER UTILITIES AND TO BE LOCATED WITHIN THE STREET RIGHT OF WAYS.
32. UNDERGROUND FIRE WATER CISTERNS ARE PROVIDED FOR FIRE PROTECTION. WATER CISTERNS SHALL BE MAINTAINED BY THE OWNERS ASSOCIATION TO ENSURE ACCESS, WATER LEVEL, AND GENERAL MAINTENANCE FOR THE LIFE OF THE DEVELOPMENT.

Layout and Materials:

1. DIMENSIONS ARE FROM THE FACE OF CURB, FACE OF BUILDING, FACE OF WALL, AND CENTER LINE OF PAVEMENT MARKINGS, UNLESS OTHERWISE NOTED.
2. CURB RADII ARE 3 FEET UNLESS OTHERWISE NOTED.
3. CURBING SHALL BE PRECAST CONCRETE, BITUMINOUS BERM OR AS LABELED ON THE PLANS.
4. SIDEWALK SHALL BE CONCRETE OR AS LABELED ON THE PLANS.
5. SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SCALED TO THEIR ACTUAL DIMENSIONS OR LOCATIONS ON THE DRAWINGS. THE CONTRACTOR SHALL REFER TO THE DETAIL SHEET DIMENSIONS, MANUFACTURERS' LITERATURE, SHOP DRAWINGS AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.
6. SEE ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS AND DETAILS CONTIGUOUS TO THE BUILDING, INCLUDING SIDEWALKS, RAMPS, BUILDING ENTRANCES, STAIRWAYS, UTILITY PENETRATIONS, CONCRETE DOOR PADS, COMPACTOR PAD, LOADING DOCKS, BOLLARDS, ETC.
7. PROPOSED BOUNDS AND ANY EXISTING PROPERTY LINE MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE SET OR RESET BY A PROFESSIONAL LICENSED SURVEYOR.
8. CONTRACTOR SHALL NOT RELY SOLELY ON ELECTRONIC VERSIONS OF PLANS, SPECIFICATIONS, AND DATA FILES THAT ARE OBTAINED FROM THE DESIGNERS, BUT SHALL VERIFY LOCATION OF PROJECT FEATURES IN ACCORDANCE WITH THE PAPER COPIES OF THE PLANS AND SPECIFICATIONS THAT ARE SUPPLIED AS PART OF THE CONTRACT DOCUMENTS.

Traffic Notes:

1. DURING CONSTRUCTION TRAFFIC CONES ARE TO BE USED FOR SEPARATION OF ACTIVE TRAFFIC FROM WORK ZONE.
2. DURING CONSTRUCTION FLAGGERS SHALL BE EMPLOYED TO ENSURE SAFETY FOR INTERACTION OF CONSTRUCTION VEHICLES AND ACTIVE TRAFFIC.
3. ALL SIGNS, FLAGGERS, TRAFFIC CONTROL DEVICES, AND TEMPORARY TRAFFIC ZONE ACTIVITIES SHALL MEET THE REQUIREMENTS OF THE MUTCD LATEST EDITION AND SUBSEQUENT ADDENDA.
4. TEMPORARY CONSTRUCTION SIGNS SHALL BE MOUNTED ON RIDOT APPROVED SUPPORTS AND SHALL BE REMOVED OR COVERED WHEN NOT APPLICABLE.
5. ALL TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES CURRENT EDITION.

ADA Notes:

1. CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL IMPROVEMENTS SHALL COMPLY WITH THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG)" BY THE DEPARTMENT OF JUSTICE.
2. MAXIMUM RUNNING SLOPE ALONG ALL ACCESSIBLE PATHS OF TRAVEL SHALL BE 4.5% OR 0.045 '/, AND MAXIMUM CROSS SLOPE ALONG ALL ACCESSIBLE PATHS OF TRAVEL SHALL BE 0.015'/,.
3. MAXIMUM SLOPE IN ALL DIRECTIONS FOR ALL ACCESSIBLE PARKING SPACES AND LOADING AREAS SHALL BE 0.015'/,.
4. A 5'x5' LANDING WITH A MAXIMUM SLOPE OF 1.5% OR 0.015'/, IN ALL DIRECTIONS SHALL BE PROVIDED IN FRONT OF ALL PUBLICLY ACCESSIBLE BUILDING ENTRANCES/EGRESSES.
5. SIDEWALK CURB RAMPS SHALL COMPLY WITH DIPRETE ENGINEERING DETAILS THAT MEET OR EXCEEDING RIDOT STANDARDS 43.3.0, 43.3.1, & 43.4.1 AS SHOWN ON THE DETAIL SHEET.
6. PLEASE NOTE THAT THE GRADING AND PLAN VIEWS AS WELL AS THE STANDARD DETAILS MAY NOT SHOW THE DETAIL NECESSARY TO CONSTRUCT WALKWAYS AND RAMPS TO ADA STANDARDS. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE THE LEVEL OF CARE NECESSARY TO BE CERTAIN THAT THE CONSTRUCTED PRODUCT MEETS ADA STANDARDS. IN THE EVENT OF ANY CONFLICTS THE CONTRACTOR SHALL NOTIFY THE DESIGNER BEFORE CONSTRUCTION FOR ADVICE IN FINDING A RESOLUTION.

Public Water Supply Well Notes:

NOTE: THE FOLLOWING NOTES PERTAIN TO THE PROPOSED PUBLIC WATER SUPPLY WELL TO SERVE THE PROPOSED DEVELOPMENT:

1. THE WATER SUPPLY WELL AND PUMP INSTALLATION MUST CONFORM TO THE REQUIREMENTS OF THE RI DEPARTMENT OF HEALTH AND ANSI/AWWA A100-97.
2. THE WELL MUST BE PROVIDED WITH A PITLESS ADAPTOR CAPABLE OF SUPPORTING THE FULL WEIGHT OF THE PUMP, RISER PIPE AND ACCESSORIES. THE PITLESS WILL BE PROVIDED WITH A GASKET SEAL TO PREVENT INFILTRATION AND IS INSTALLED THROUGH THE WELL CASING, A MINIMUM OF 4 FT. BELOW GROUND SURFACE TO PROTECT FROM FREEZE DAMAGE.
3. THE WELL WILL BE PRO

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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 06 2020 FILE # 15-0176
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Buildable Analysis:

	AP 14 LOTS 10-12 & 18-20
TOTAL LOT AREA:	92.69 ACRES
WETLAND & PERIMETER AREA:	9.88 ACRES
EASEMENT AREA:	0.61 ACRES
TOTAL NON-BUILDABLE AREA	10.49 ACRES
TOTAL SUITABLE AREA:	82.20 ACRES

Scale: 1"=120'
0 60' 120' 240'

DiPrete Engineering
Two Stafford Court Cranston, RI 02920
tel 401-943-1000 fax 401-464-6006 www.diprete-eng.com
Boston • Providence • Newport

BRANDON D. CARR
9801
10/15/2018
REGISTERED PROFESSIONAL ENGINEER
CIVIL

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The contractor is responsible for all of the means, methods, safety precautions and requirements, and OSHA conformance in the implementation of this plan and design.

No.	Date	Description	By:
6	10-15-2018	RIDEM Response to Comments	J.A.C.
5	4-9-2018	RIDEM Response to Comments	D.K.N.
4	4-4-2017	RIDEM Response to Comments	D.K.N.
3	4-4-2017	RIDEM Master Plan Response to Comments	D.K.N.
2	12-13-2015	RIDEM Response to Comments	B.C.C.
1	8-19-2015	RIDEM/RICCH Submissions	J.A.D.
0	8-10-2015	RIDEM/RICCH Submissions	J.A.D.

Drawn By: J.A.D. Design By: B.D.C.

Existing Conditions Plan

Glacier Ridge

Assessor's Plat 14 Lots 10, 11, 12, & 18-20
Glocester, Rhode Island 02814

Applicant
Adler Brothers Construction Co.
604 Putnam Pike, Greenville, Rhode Island 02828

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Note:

AN ASTERISK (*) HAS BEEN ADDED TO ALL NEW TEST HOLES THAT HAVE BEEN COMPLETED SINCE THE 08/10/2015 RIDEM SUBMISSION.

TEST HOLE	DATE
(TH A1)–(TH A33)	(4/13/17)–(4/14/17)
(TH 16–1)–(TH 16–27)	(2/23/16)–(2/24/16)
(TH D1)–(TH D2)	4/13/17
(LP 17–1)–(TH 17–3)	4/13/17

NORTH

AP 14 LOT 3
N/F
KATHLEEN K
TURNBULL

AP 14 LOT 251
N/F
JOHN W &
AUDREY M BOYLE

AP 14 LOT 14
N/F
— LEVEL 3 COMMUNICATIONS, LLC

AP 14 LOT 13
N/F
MARIE A. ET VIR
DENNIS W. ROBIDOUX

AP 14 LOT 16
N/F
DAVID R. ETUX
BEVERLY JEAN HILL

AP 14 LOT 250
N/F
JAMES C ETUX
JULIE GREENE

AP 14 LOT 17
N/F
BARBARA J. ARCAND

AP 14 LOT 2
N/F
NORMAN R ETUX
MARIE E MESSIER

Putnam Pike (ROUTE 44)

Overall Site
AP 14, LOTS 10–12 & 18–20
AREA = 92.69 ACRES

AP 14 LOT 249
N/F
NORMAN R ETUX
MARIE E MESSIER

AP 17 LOT 109
N/F
BONNIE M. DEVINE–COOPER
ETAL KATHLEEN SHAW

FORESTED WETLAND

INTERMITTENT STREAM
< 10' (TYP)

AP 14 LOT 9–A
N/F
STEPHEN J ETUX
BRENDA L FRAZIER

AP 14 LOT 9
N/F
STEPHEN J ETUX
BRENDA L FRAZIER

AP 14 LOT 213
N/F
WILLIAM J ETUX
AVIS M HAMILL

AP 14 LOT 208
N/F
BARBARA A WILLIAM
J ETUX AVIS HAMILL

AP 14 LOT 209
N/F
JJA CORP

AP 14 LOT 189
N/F
CAROL A & CRISTEN A
GAERIELE

AP 14 LOT 237
N/F
MATTHEW S.
LAMONTAGNE

AP 14 LOT 7
N/F
GARY A. KING ETUX
CAROL DANTI–KING

AP 14 LOT 22
N/F
GARY A. KING ETUX
CAROL DANTI–KING

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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
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DATED MAY 06 2020 FILE # 15-0176
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Scale: 1"=120'
0 60' 120' 240'

DiPrete Engineering
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Boston • Providence • Newport

BRANDON D. CARR
9801
10/15/2018
REGISTERED
PROFESSIONAL ENGINEER
CIVIL

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No.	Date	Description	By:
6	10-15-2018	RIDEM Response to Comments	LAC
5	5-4-2018	RIDEM Response to Comments	D.R.N.
4	4-13-2018	RIDEM Master Plan Response to Comments	D.R.N.
3	3-23-2016	RIDEM Response to Comments	D.R.N.
2	12-2-2015	RIDEM Response to Comments	A.S.C.
1	8-12-2015	RIDEM Submission	J.A.D.
0	8-10-2015	RIDEM RIDOT Submissions	J.A.D.

Drawn By: J.A.D. Design By: B.D.C.

Soil Evaluation Location Plan

Glacier Ridge

Assessor's Plat 14 Lots 10, 11, 12, & 18-20
Glocester, Rhode Island 02814

Applicant
Adler Brothers Construction Co.
604 Putnam Pike, Greenville, Rhode Island 02828

SHEET 5 OF 33

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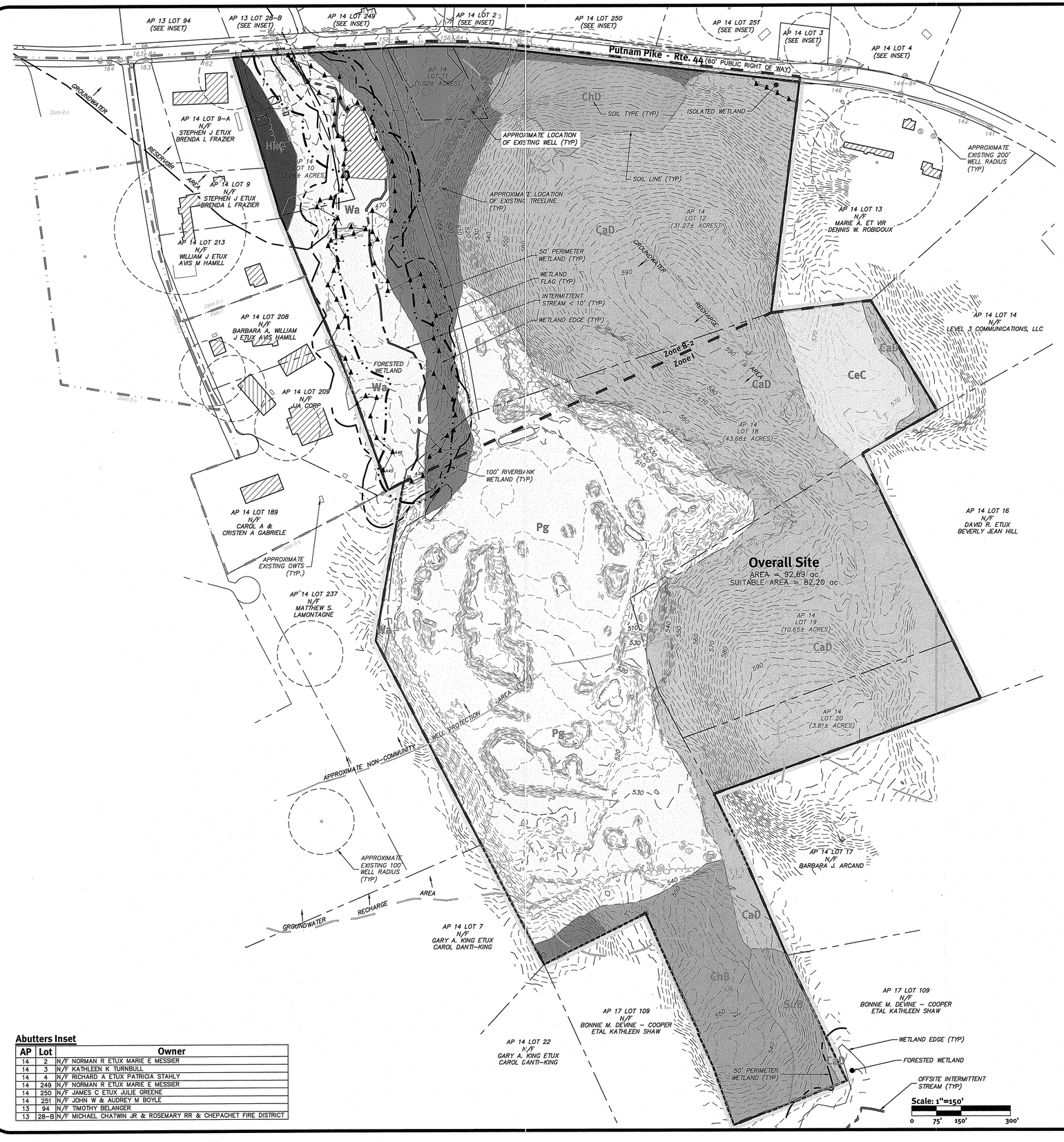

Soil Information:

(REFERENCE: SOIL SURVEY OF RHODE ISLAND, U.S.D.A. SOIL CONSERVATION SERVICE)

SOIL NAME	DESCRIPTION
CaD	CANTON–CHARLTON–ROCK OUTCROP COMPLEX, 15 TO 35 PERCENT SLOPES
CeC	CANTON AND CHARLTON FINE SANDY LOAMS, VERY ROCKY, 3 TO 15 PERCENT SLOPES
ChB	CANTON AND CHARLTON VERY STONY FINE SANDY LOAMS, 3 TO 8 PERCENT SLOPES
ChC	CANTON AND CHARLTON VERY STONY FINE SANDY LOAMS, 8 TO 15 PERCENT SLOPES
ChD	CANTON AND CHARLTON VERY STONY FINE SANDY LOAMS, 15 TO 25 PERCENT SLOPES
HkC	HINCKLEY GRAVELLY SANDY LOAM, ROLLING
Pg	PITS GRAVEL
SuB	SUTTON VERY STONY FINE SANDY LOAM, 0 TO 8 PERCENT SLOPES WITH GROUNDWATER LESS THAN 3.5'
Wa	WALPOLE SANDY LOAM – A HYDRIC SOIL WITH GROUNDWATER LESS THAN 3.5'

Legend

PROPERTY LINE
IINTERNAL LOT LINE
ASSESSOR LINE
ZONING BOUNDARY (ABUTTING SITE)
ZONING BOUNDARY (SITE)
SOIL BOUNDARY LINE
TREELINE

WETLAND EDGE
STREAM CENTERLINE
50' PERIMETER WETLAND
100' RIVERBANK WETLAND
WETLAND FLAG
EXISTING WELL
BUILDING
TEST PIT

CaD SOILS
CeC SOILS
ChB SOILS
ChC SOILS
ChD SOILS
HkC SOILS
Pg SOILS
SuB SOILS
Wa SOILS

Abutters Inset

AP	Lot	Owner
14	2	N/F NORMAN R ETUX MARIE E MESSIER
14	3	N/F KATHLEEN K TURNBULL
14	4	N/F RICHARD A ETUX PATRICIA STAHLY
14	249	N/F NORMAN R ETUX MARIE E MESSIER
14	250	N/F JAMES C ETUX JULIE GREENE
14	251	N/F JOHN W & AUDREY M BOYLE
13	94	N/F TIMOTHY BELANGER
13	28-B	N/F MICHAEL CHATWIN JR & ROSEMARY RR & CHEPACHET FIRE DISTRICT

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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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No.	Date	Description	By:
6	10-15-2018	RIDEM Response to Comments	JAC
5	5-4-2018	RIDEM Response to Comments	DKN
4	4-13-2018	RIDEM Response to Comments	DKN
3	3-15-2018	RIDEM Response to Comments	DKN
2	12-1-2015	RIDEM Response to Comments	MSC
1	8-31-2015	Site Submittal/Submission	BJD
0	8-19-2015	Site Submittal/Submission	BJD

Design By: B.D.C.
Drawn By: J.A.D.

Soil Map
Glacier Ridge
Assessor's Plat 14 Lots 10, 11, 12, & 18-20
Glocester, Rhode Island 02814

Applicant
Adler Brothers Construction Co.
604 Putnam Pike, Greenville, Rhode Island 02828

SHEET 6 OF 33

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Legend

- PROPERTY LINE
- IINTERNAL LOT LINE
- ASSESSOR LINE
- ZONING BOUNDARY (ABUTTING SITE) — ZONE X / ZONE I
- ZONING BOUNDARY (SITE) — Zone X / Zone X
- SOIL BOUNDARY LINE — HkC / CaD
- TREELINE
- WETLAND EDGE — A5 A6 A7 A8
- STREAM CENTERLINE
- 50' PERIMETER WETLAND
- 100' RIVERBANK WETLAND — 50' PERIMETER WETLAND / 100' RIVERBANK WETLAND
- WETLAND FLAG — A5
- EXISTING WELL
- BUILDING
- TEST PIT — TP

Slope Legend

- SLOPE RANGE 15% – 20%
- SLOPE RANGE >20%

Abutters Inset

AP	Lot	Owner
14	2	N/F NORMAN R ETUX MARIE E MESSIER
14	3	N/F KATHLEEN K TURNBULL
14	4	N/F RICHARD A ETUX PATRICIA STAHLY
14	249	N/F NORMAN R ETUX MARIE E MESSIER
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No.	Date	Description	By:
6	10-15-2018	RIDEM Response to Comments	J.A.C.
5	5-4-2018	RIDEM Response to comments	D.R.N.
4	4-1-2018	RIDOT Response to Comments	D.R.N.
3	3-6-2017	RIDEM Response to Comments	D.R.N.
2	12-3-2015	RIDEM Response to Comments	M.A.C.
1	9-30-2015	RIDOT Response to Comments	M.A.C.
0	8-31-2015	RIDEM/RIDOT Submissions	J.A.D.

Drawn By: J.A.D. — Design By: B.D.C.

Slope Map

Glacier Ridge

Assessor's Plat 14, Lots 10, 11, 12, & 18-20
Glocester, Rhode Island 02814

Applicant
Adler Brothers Construction Co.
604 Putnam Pike, Greenville, Rhode Island 02828

SHEET 7 OF 33

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Scale: 1"=120'
0 60' 120' 240'

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Demolition Plan

Glacier Ridge

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Applicant
Adler Brothers Construction Co.
604 Putnam Pike, Greenville, Rhode Island 02828

SHEET 8 OF 33

No.	Date	Description	By:
6	10-15-2018	RIDEM Response to Comments	J.A.C.
5	5-9-2018	RIDEM Response to Comments	D.R.N.
4	4-11-2018	RIDOT Response to Comments	D.R.N.
3	6-5-2017	RIDEM/Master Plan Response to Comments	D.R.N.
2	12-1-2015	RIDEM Response to Comments	M.S.C.
1	8-31-2015	Site Suitability Submission	M.E.
0	8-10-2015	RIDEM/RIDOH Submissions	J.A.D.

Drawn By: J.A.D. Design By: B.D.C.

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BRANDON D. CARR
REGISTERED PROFESSIONAL ENGINEER
OIL

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Two Stafford Court Cranston, RI 02920
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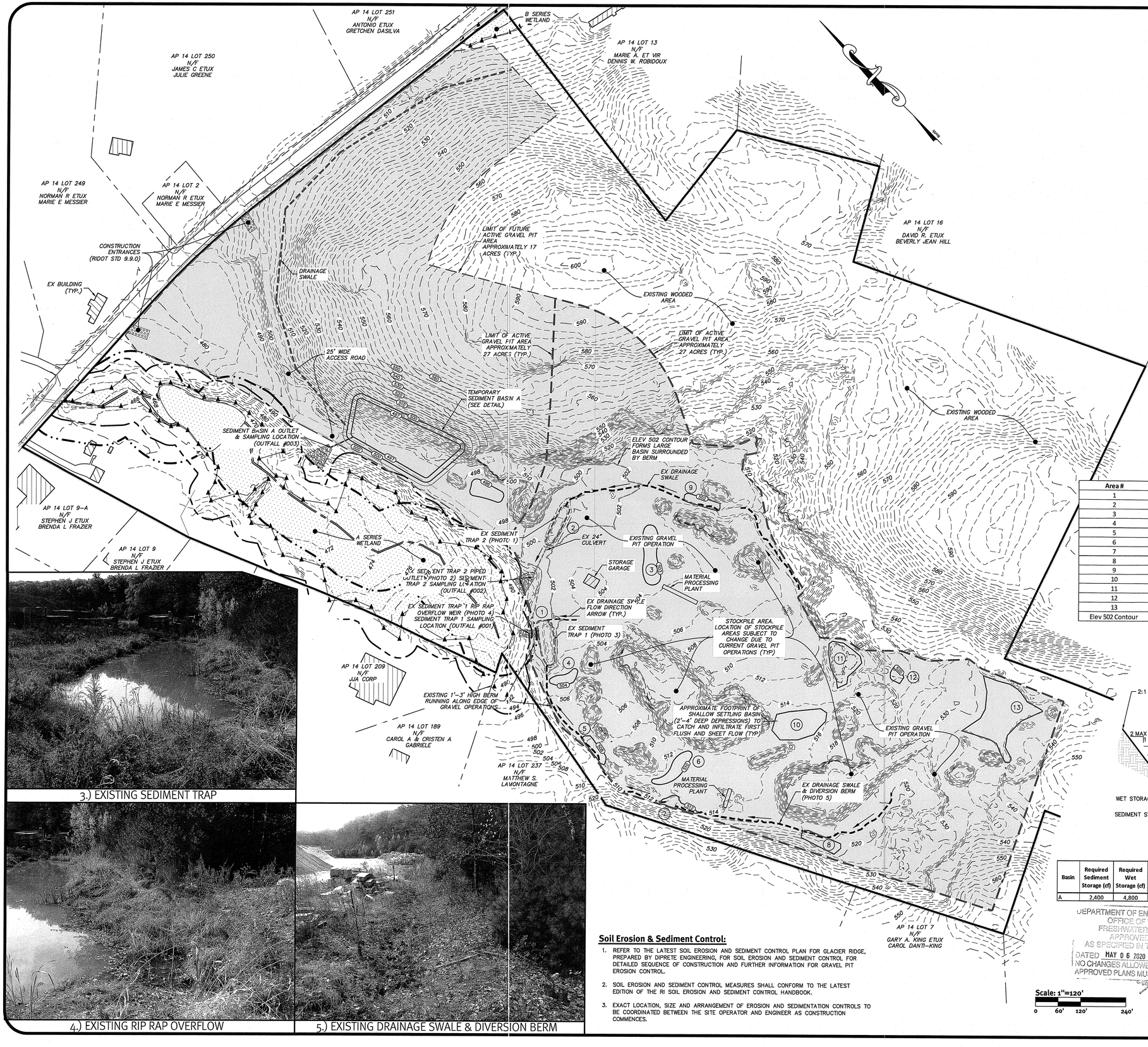
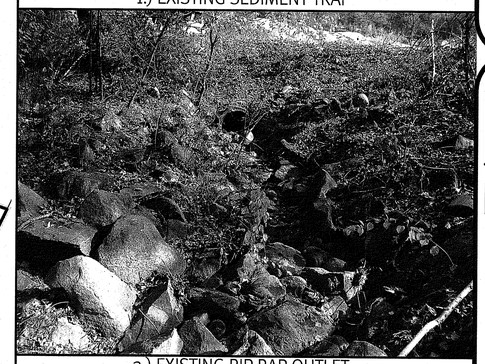


1.) EXISTING SEDIMENT TRAP



2.) EXISTING RIP RAP OUTLET

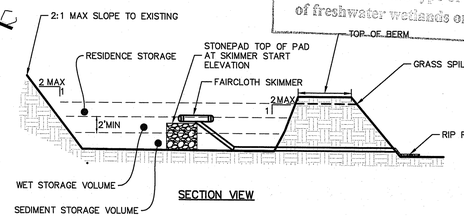
3.) EXISTING SEDIMENT TRAP

4.) EXISTING RIP RAP OVERFLOW

5.) EXISTING DRAINAGE SWALE & DIVERSION BERM

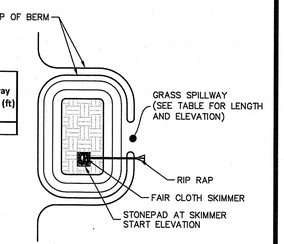
Area #	Footprint (sf)	Depth (ft)	Volume (cf)	Volume (af)
1	5,200	5.00	26,000	0.60
2	3,200	5.00	16,000	0.37
3	6,400	2.00	12,800	0.29
4	2,300	2.00	4,600	0.11
5	2,200	4.00	8,800	0.20
6	3,800	2.00	7,600	0.17
7	2,100	4.00	8,400	0.19
8	3,000	4.00	12,000	0.28
9	2,300	4.00	9,200	0.21
10	9,000	2.00	18,000	0.41
11	7,200	4.00	28,800	0.66
12	1,200	2.00	2,400	0.06
13	15,000	2.00	30,000	0.69
Elev 502 Contour	53,000	2.00	106,000	2.43
		Totals =	184,600	4.24

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.



SECTION VIEW

Basin	Required Sediment Storage (cf)	Required Wet Storage (cf)	Skimmer Start Elevation	Max Skimmer Release Rate (cfs)	Spillway Elevation	Spillway Length (ft)
A	2,400	4,800	497.00	2.00	500.00	50



PLAN VIEW

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 06 2020 FILE # 15-0176
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Scale: 1"=120'
0 60' 120' 240'

Temporary Sediment Basin Detail

NOT TO SCALE

Soil Erosion & Sediment Control:

1. REFER TO THE LATEST SOIL EROSION AND SEDIMENT CONTROL PLAN FOR GLACIER RIDGE, PREPARED BY DIPRETE ENGINEERING, FOR SOIL EROSION AND SEDIMENT CONTROL FOR DETAILED SEQUENCE OF CONSTRUCTION AND FURTHER INFORMATION FOR GRAVEL PIT EROSION CONTROL.
2. SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL CONFORM TO THE LATEST EDITION OF THE RI SOIL EROSION AND SEDIMENT CONTROL HANDBOOK.
3. EXACT LOCATION, SIZE AND ARRANGEMENT OF EROSION AND SEDIMENTATION CONTROLS TO BE COORDINATED BETWEEN THE SITE OPERATOR AND ENGINEER AS CONSTRUCTION COMMENCES.

DiPrete Engineering
Two Stafford Court Cranston, RI 02920
tel 401-943-1000 fax 401-464-6006 www.diprete-eng.com
Boston • Providence • Newport

BRANDON D. CARR
9801
10/15/2018
REGISTERED PROFESSIONAL ENGINEER
CIVIL

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The contractor is responsible for all of the means, methods, safety precautions and requirements, and OSHA conformance in the implementation of this plan and design.

No.	Date	Description	By:
1	10-5-2018	RIDEM Response to Comments	J.A.C.
2	5-2-2019	RIDEM Response to Comments	D.R.N.
3	6-11-2019	RIDEM Response to Comments	D.R.N.
4	9-3-2019	RIDEM Response to Comments	D.R.N.
5	12-2-2019	RIDEM Response to Comments	D.R.N.
6	8-31-2020	Site Plan Re-Submission	B.D.C.
7	10-15-2020	RIDEM Response to Comments	B.D.C.

Drawn By: J.A.D. Design By: B.D.C.

Existing Soil Erosion & Sediment Control Plan

Glacier Ridge

Assessor's Plat 14 Lots 10, 11, 12, & 18-20
Glocester, Rhode Island 02814

Applicant
Adler Brothers Construction Co.
604 Putnam Pike, Greenville, Rhode Island 02828

DP Job No: 2139-001 Copyright 2017 by DiPrete Engineering Associates, Inc.

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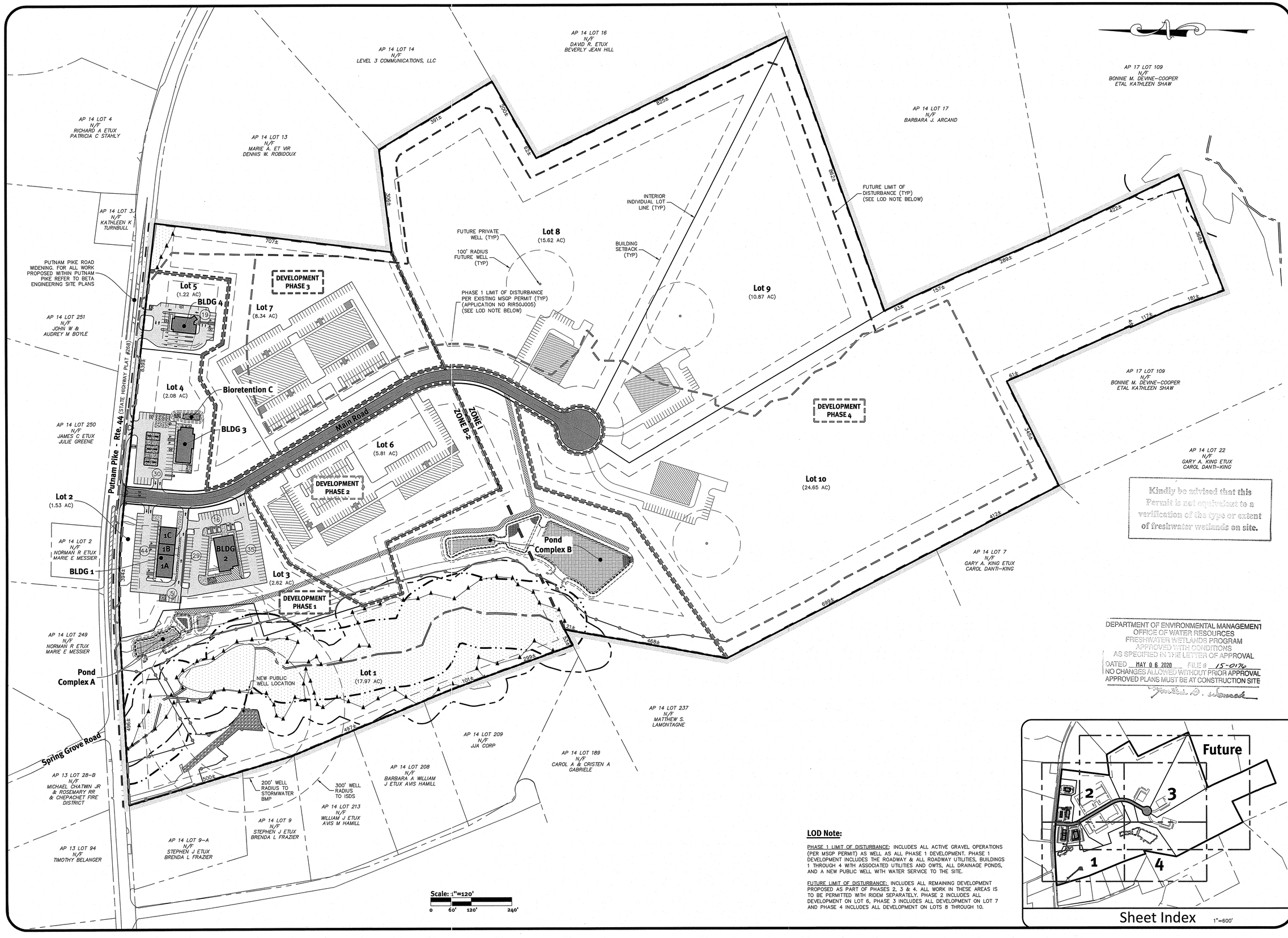

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No.	Date	Description	By:
6	08-15-2018	RIDEM Response to Comments	J.A.C.
5	5-4-2018	RIDEM Response to Comments	D.R.N.
4	4-13-2018	RIDEM Response to Comments	D.R.N.
3	3-5-2018	RIDEM Master Plan Response to Comments	D.R.N.
2	12-3-2015	RIDEM Response to Comments	B.D.C.
1	8-10-2015	RIDEM/CRMC Submissions	J.A.D.
0	8-10-2015	RIDEM/CRMC Submissions	J.A.D.

Design By: B.D.C.
Drawn By: J.A.D.

Overall Site Layout & Phasing

Glacier Ridge

Assessor's Plat 14 Lots 10, 11, 12, & 18-20
Glocester, Rhode Island 02814

Applicant
Adler Brothers Construction Co.
604 Putnam Pike, Greenville, Rhode Island 02828

DE Job No: 2139-001 Copyright 2017 by DiPrete Engineering Associates, Inc.

SHEET 10 OF 33

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Lot 1

DIMENSIONAL REGULATIONS: (ZONE B-2)	REQUIRED	PROVIDED
MINIMUM LOT AREA:	0.5 AC	17.97 AC
MINIMUM FRONTAGE AND LOT WIDTH:	120'	496'
MINIMUM FRONT AND CORNER SIDE YARD:	60'	124' (EXISTING)
MINIMUM SIDE YARD:	20'	13' (EXISTING)
MINIMUM REAR YARD:	30'	1,161' (EXISTING)
MAXIMUM STRUCTURE HEIGHT:	N/A	N/A
BUILDING COVERAGE:	25%	0.23% (EXISTING)

BUILDABLE ANALYSIS:	
TOTAL LOT AREA:	17.97 AC
WETLAND AREA:	5.25 AC
SLOPES >20%:	3.32 AC
EASEMENT AREA:	0.16 AC
TOTAL NONBUILDABLE AREA:	8.73 AC
TOTAL SUITABLE AREA:	9.24 AC

Lot 2

DIMENSIONAL REGULATIONS: (ZONE B-2)	REQUIRED	PROVIDED
MINIMUM LOT AREA:	0.5 AC	1.53 AC
MINIMUM FRONTAGE AND LOT WIDTH:	120'	193'
MINIMUM FRONT AND CORNER SIDE YARD:	60'	60'
MINIMUM SIDE YARD:	20'	31'
MINIMUM REAR YARD:	30'	94'
MAXIMUM STRUCTURE HEIGHT:	N/A	N/A
BUILDING COVERAGE:	25%	10.2%

BUILDABLE ANALYSIS	
TOTAL LOT AREA:	1.53 AC
WETLAND AREA:	0.00 AC
SLOPES >20%:	0.26 AC
EASEMENT AREA:	0.10 AC
TOTAL NONBUILDABLE AREA:	0.36 AC
TOTAL SUITABLE AREA:	1.17 AC

PARKING REGULATIONS:	
PARKING USE:	PROFESSIONAL OFFICES
BUILDING NUMBERS:	1A & 1C
TOTAL OFFICE AREA:	5,600 SQ FT
PARKING REQUIREMENT:	1 SPACE / 90 SQ. FT. FLOOR AREA 5,600 SQ FT /90 SQ FT = 63 SPACES
PARKING USE:	RESTAURANT
BUILDING NUMBERS:	1B
PARKING REQUIREMENT:	1 SPACE/ 3 SEATS + 1 SPACE PER 2 EMPLOYEES 20 SEATS/3 + 8 EMPLOYEES/2 = 11 SPACES
TOTAL PARKING REQUIRED:	74 SPACES
PARKING PROPOSED:	49 SPACES
RELIEF REQUIRED:	**25 SPACES**
ADA REQUIRED:	3 SPACES
ADA PROPOSED:	4 SPACES

Lot 3

DIMENSIONAL REGULATIONS: (ZONE B-2)	REQUIRED	PROVIDED
MINIMUM LOT AREA:	0.5 AC	2.62 AC
MINIMUM FRONTAGE AND LOT WIDTH:	120'	177'
MINIMUM FRONT AND CORNER SIDE YARD:	60'	95'
MINIMUM SIDE YARD:	20'	81'
MINIMUM REAR YARD:	30'	100'
MAXIMUM STRUCTURE HEIGHT:	N/A	N/A
BUILDING COVERAGE:	25%	5.1%

BUILDABLE ANALYSIS:	
TOTAL LOT AREA:	2.62 AC
WETLAND AREA:	0.00 AC
SLOPES >20%:	1.44 AC
EASEMENT AREA:	0.26 AC
TOTAL NONBUILDABLE AREA:	1.70 AC
TOTAL SUITABLE AREA:	0.92 AC

PARKING REGULATIONS:	
PARKING USE:	RESTAURANT
BUILDING NUMBERS:	2
PARKING REQUIREMENT:	1 SPACE/ 3 SEATS + 1 SPACE PER 2 EMPLOYEES 124 SEATS/3 + 27 EMPLOYEES/2 = 55 SPACES
PARKING PROPOSED:	80 SPACES
ADA REQUIRED:	4 SPACES
ADA PROPOSED:	5 SPACES

Lot 4

DIMENSIONAL REGULATIONS: (ZONE B-2)	REQUIRED	PROVIDED
MINIMUM LOT AREA:	0.5 AC	2.08 AC
MINIMUM FRONTAGE AND LOT WIDTH:	120'	239'
MINIMUM FRONT AND CORNER SIDE YARD:	60'	84'
MINIMUM SIDE YARD:	20'	218'
MINIMUM REAR YARD:	30'	51'
MAXIMUM STRUCTURE HEIGHT:	N/A	N/A
BUILDING COVERAGE:	25%	5.2%

BUILDABLE ANALYSIS:	
TOTAL LOT AREA:	2.08 AC
WETLAND AREA:	0.00 AC
SLOPES >20%:	0.54 AC
TOTAL NONBUILDABLE AREA:	0.54 AC
TOTAL SUITABLE AREA:	1.54 AC

PARKING REGULATIONS:	
PARKING USE:	RETAIL & SERVICE ESTABLISHMENTS
BUILDING NUMBERS:	3
TOTAL RETAIL AREA:	4,700 SQ FT
PARKING REQUIREMENT:	1 SPACE / 90 SQ. FT. RETAIL SPACE 4,700 SQ FT /90 SQ FT = 53 SPACES
PARKING PROPOSED:	30 SPACES
RELIEF REQUIRED:	**23 SPACES**
ADA REQUIRED:	2 SPACES
ADA PROPOSED:	2 SPACES

Lot 5

DIMENSIONAL REGULATIONS: (ZONE B-2)	REQUIRED	PROVIDED
MINIMUM LOT AREA:	0.5 AC	1.22 AC
MINIMUM FRONTAGE AND LOT WIDTH:	120'	229'
MINIMUM FRONT AND CORNER SIDE YARD:	60'	83'
MINIMUM SIDE YARD:	20'	59'
MINIMUM REAR YARD:	30'	82'
MAXIMUM STRUCTURE HEIGHT:	N/A	N/A
BUILDING COVERAGE:	25%	6.0%

BUILDABLE ANALYSIS:	
TOTAL LOT AREA:	1.22 AC
WETLAND AREA:	0.00 AC
SLOPES >20%:	0.64 AC
TOTAL NONBUILDABLE AREA:	0.64 AC
TOTAL SUITABLE AREA:	0.58 AC

PARKING REGULATIONS:	
PARKING USE:	PROFESSIONAL OFFICES
BUILDING NUMBERS:	4
TOTAL OFFICE AREA:	3,200 SQ FT
PARKING REQUIREMENT:	1 SPACE / 90 SQ. FT. FLOOR AREA 3,200 SQ FT /90 SQ FT = 36 SPACES
PARKING PROPOSED:	19 SPACES
RELIEF REQUIRED:	**17 SPACES**
ADA REQUIRED:	2 SPACES
ADA PROPOSED:	2 SPACES

Lot 6

DIMENSIONAL REGULATIONS: (ZONE B-2)	REQUIRED	PROVIDED
MINIMUM LOT AREA:	0.5 AC	5.81 AC
MINIMUM FRONTAGE AND LOT WIDTH:	120'	690'
MINIMUM FRONT AND CORNER SIDE YARD:	60'	65'
MINIMUM SIDE YARD:	20'	30'
MINIMUM REAR YARD:	30'	79'
MAXIMUM STRUCTURE HEIGHT:	N/A	N/A
BUILDING COVERAGE:	25%	9.9%

BUILDABLE ANALYSIS:	
TOTAL LOT AREA:	5.81 AC
WETLAND AREA:	0.00 AC
SLOPES >20%:	2.32 AC
EASEMENT AREA:	0.10 AC
TOTAL NONBUILDABLE AREA:	2.42 AC
TOTAL SUITABLE AREA:	3.39 AC

PARKING REGULATIONS:	
PARKING USE:	RETAIL & :ERVICE ESTABLISHMENTS
TOTAL RETAIL AREA:	25,000 SQ FT
PARKING REQUIREMENT:	1 SPACE / 90 SQ. FT. RETAIL SPACE 25,000 SQ FT /90 SQ FT = 278 SPACES
PARKING PROPOSED:	172 SPACES
RELIEF REQUIRED:	**106 SPACES**
ADA REQUIRED:	6 SPACES
ADA PROPOSED:	6 SPACES

Lot 7

DIMENSIONAL REGULATIONS: (ZONE B-2)	REQUIRED	PROVIDED
MINIMUM LOT AREA:	0.5 AC	8.34 AC
MINIMUM FRONTAGE AND LOT WIDTH:	120'	141' (PUTNAM PIKE)
MINIMUM FRONT AND CORNER SIDE YARD:	60'	155'
MINIMUM SIDE YARD:	20'	102'
MINIMUM REAR YARD:	30'	177'
MAXIMUM STRUCTURE HEIGHT:	N/A	N/A
BUILDING COVERAGE:	25%	9.6%

BUILDABLE ANALYSIS:	
TOTAL LOT AREA:	8.34 AC
WETLAND AREA:	0.13 AC
SLOPES >20%:	1.32 AC
TOTAL NONBUILDABLE AREA:	1.45 AC
TOTAL SUITABLE AREA:	6.89 AC

PARKING REGULATIONS:	
PARKING USE:	PROFESSIONAL OFFICES
TOTAL OFFICE AREA:	35,000 SQ FT
PARKING REQUIREMENT:	1 SPACE / 90 SQ. FT. FLOOR AREA 35,000 SQ FT /90 SQ FT = 389 SPACES
PARKING PROPOSED:	176 SPACES
RELIEF REQUIRED:	**213 SPACES**
ADA REQUIRED:	6 SPACES
ADA PROPOSED:	8 SPACES

Lot 8

DIMENSIONAL REGULATIONS: (ZONE I)	REQUIRED	PROVIDED
MINIMUM LOT AREA:	2.0 AC	15.62 AC
MINIMUM FRONTAGE AND LOT WIDTH:	200'	483'
MINIMUM FRONT AND CORNER SIDE YARD:	60'	61'
MINIMUM SIDE YARD:	35'	127'
MINIMUM REAR YARD:	100'	518'
MAXIMUM STRUCTURE HEIGHT:	N/A	N/A
BUILDING COVERAGE:	30%	1.8%

BUILDABLE ANALYSIS:	
TOTAL LOT AREA:	15.62 AC
WETLAND AREA:	0.00 AC
SLOPES >20%:	4.30 AC
TOTAL NONBUILDABLE AREA:	4.30 AC
TOTAL SUITABLE AREA:	11.32 AC

PARKING REGULATIONS:	
PARKING USE:	INDUSTRIA.
TOTAL OFFICE AREA:	12,000 SC FT + 24 EMPLOYEES
PARKING REQUIREMENT:	2 SPACES PER 3 EMPLOYEES + 1 PER TRUCK 24 X (2/3) + 5 TRUCKS = 21 SPACES
PARKING PROPOSED:	26 SPACES
ADA REQUIRED:	2 SPACES
ADA PROPOSED:	2 SPACES

Lot 9

DIMENSIONAL REGULATIONS: (ZONE I)	REQUIRED	PROVIDED
MINIMUM LOT AREA:	2.0 AC	10.87 AC
MINIMUM FRONTAGE AND LOT WIDTH:	200'	201'
MINIMUM FRONT AND CORNER SIDE YARC:	60'	121'
MINIMUM SIDE YARD:	35'	37'
MINIMUM REAR YARD:	100'	662'
MAXIMUM STRUCTURE HEIGHT:	N/A	N/A
BUILDING COVERAGE:	30%	2.5%

BUILDABLE ANALYSIS:	
TOTAL LOT AREA:	10.87 AC
WETLAND AREA:	0.00 AC
SLOPES >20%:	3.72 AC
TOTAL NONBUILDABLE AREA:	3.72 AC
TOTAL SUITABLE AREA:	7.15 AC

PARKING REGULATIONS:	
PARKING USE:	INDUSTRIAL
TOTAL OFFICE AREA:	12,000 SQ FT + 24 EMPLOYEES
PARKING REQUIREMENT:	2 SPACES PER 3 EMPLOYEES + 1 PER TRUCK 24 X (2/3) + 5 TRUCKS = 21 SPACES
PARKING PROPOSED:	26 SPACES
ADA REQUIRED:	2 SPACES
ADA PROPOSED:	2 SPACES

Lot 10

DIMENSIONAL REGULATIONS: (ZONE I)	REQUIRED	PROVIDED
MINIMUM LOT AREA:	2.0 AC	24.65 AC
MINIMUM FRONTAGE AND LOT WIDTH:	200'	322'
MINIMUM FRONT AND CORNER SIDE YARD:	60'	212'
MINIMUM SIDE YARD:	35'	432'
MINIMUM REAR YARD:	100'	453'
MAXIMUM STRUCTURE HEIGHT:	N/A	N/A
BUILDING COVERAGE:	30%	1.1%

BUILDABLE ANALYSIS:	
TOTAL LOT AREA:	24.65 AC
WETLAND AREA:	0.00 AC
SLOPES >20%:	6.24 AC
TOTAL NONBUILDABLE AREA:	6.24 AC
TOTAL SUITABLE AREA:	18.41 AC

PARKING REGULATIONS:	
PARKING USE:	INDUSTRIAL
TOTAL OFFICE AREA:	12,000 SQ FT + 24 EMPLOYEES
PARKING REQUIREMENT:	2 SPACES PER 3 EMPLOYEES + 1 PER TRUCK 24 X (2/3) + 5 TRUCKS = 21 SPACES
PARKING PROPOSED:	26 SPACES
ADA REQUIRED:	2 SPACES
ADA PROPOSED:	2 SPACES

Development Data*:

PHASE 1:	
PHASE 1 AREA (LOTS 1-5):	25.42 ACRES
TOTAL NUMBER OF BUILDINGS:	4
AVERAGE LOT AREA:	5.08 ACRES
RIGHT OF WAY AREA:	1.97 ACRES
RIGHT OF WAY WIDTH:	50'
LENGTH OF ROAD:	1,560'
ROADWAY PAVEMENT WIDTH:	30' + 1' BERM, TOTAL WIDTH=32'
PHASE 2:	
PHASE 2 AREA (LOT 6):	5.81 ACRES
TOTAL NUMBER OF BUILDINGS:	3
PHASE 3:	
PHASE 3 AREA (LOT 7):	8.34 ACRES
TOTAL NUMBER OF BUILDINGS:	2
PHASE 4:	
PHASE 4 AREA (LOT 8-10):	51.14 ACRES
TOTAL NUMBER OF BUILDINGS:	3
AVERAGE LOT AREA:	17.05 ACRES

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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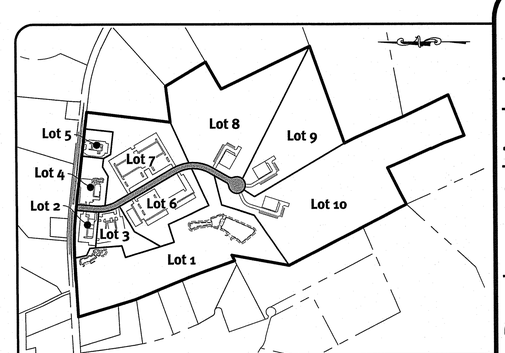
*** Phases Note:**

THE INFORMATION PROVIDED ON THIS SHEET COVERS ALL DEVELOPMENT PHASES. HOWEVER, ONLY PHASE 1 DEVELOPMENT IS PROPOSED FOR PERMITTING THROUGH RIDEM AT THIS TIME. DEVELOPMENT FOR PHASES 2-4 OR LABELED AS "FUTURE" WILL BE PERMITTED WITH RIDEM AT A LATER DATE. ALL DEVELOPMENT WILL BE DESIGNED TO CONFORM TO REQUIRED DIMENSIONAL REGULATIONS AS WELL AS ANY OTHER TOWN OR STATE REQUIREMENTS. STORMWATER BASINS HAVE BEEN DESIGNED FOR ALL 4 PHASES.



Lot Index 1"=600'

DiPrete Engineering
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BRANDON D. CARR
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No.	Date	Description	By
6.	10-15-2018	RIDEM Response to Comments	J.V.C.
5.	7-16-2018	RIDEM Response to Comments	D.R.N.
4.	4-13-2018	RIDOT Response to Comments	D.R.N.
3.	6-5-2017	RIDEM Master Plan Response to Comments	D.R.N.
2.	8-14-2015	RIDEM Master Plan Submission	B.F.I.
1.	8-13-2015	Site Suitability Submission	B.F.I.
0.	8-10-2015	Preliminary Plan Submission	J.V.C.

Drawn By: J.A.D. Design By: B.D.C.

Developmental Analysis

Glacier Ridge
Assessor's Plat 14 Lots 10, 11, 12, & 18-20
Gloucester, Rhode Island 02814

Applicant
Adler Brothers Construction Co.
604 Putnam Pike, Greenville, Rhode Island 02828

SHEET 11 OF 33

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See Sheet 13

AP 14 LOT 250
N/F
JAMES C ETUX
JULIE GREENE

AP 14 LOT 2
N/F
NORMAN R ETUX
MARIE E MESSIER

AP 14 LOT 249
N/F
NORMAN R ETUX
MARIE E MESSIER

AP 13 LOT 28-B
N/F
MICHAEL CHATWIN JR
& ROSEMARY RR
& CHEPACHET FIRE
DISTRICT

Putnam Pike (Route 44)
(60' WIDE PUBLIC RIGHT OF WAY)
(STATE HIGHWAY PLAT #205)

PUTNAM PIKE ROAD WIDENING. FOR ALL WORK PROPOSED WITHIN PUTNAM PIKE REFER TO BETA ENGINEERING SITE PLANS

R&D EXISTING PAVEMENT.

SAW CUT & MATCH LINE (TYP)

BITUMINOUS BERM IN ROADWAYS (TYP)

Lot 2
(1.53 AC)

Building 1C
(OFFICE)
2,400 SF

Building 1B
(RESTAURANT)
1,500 SF

Building 1A
(OFFICE)
3,200 SF

Building 2
(RESTAURANT)
5,800 SF

PARKING COUNT (TYP)

ADA PARKING SPACE (TYP)

BUILDING 1B DRIVE-THRU

DUMPSTER AREA (TYP)

CONCRETE CURB IN PARKING LOTS (TYP)

PAVEMENT STRIPING (TYP)

CONCRETE SIDEWALKS (TYP)

BUILDING SETBACK (TYP)

FUTURE DEVELOPMENT TO BE PERMITTED SEPARATELY (TYP)

Lot 6
(5.81 AC)

Pond Complex B
(SEE SHEET 29)

Phase 2

Phase 1

Lot 3
(2.62 AC)

FUTURE OWTS (TYP)

POND ACCESS (SEE DETAIL)

WATER PUMP HOUSE

BUILDING 2 OWTS

BUILDING 1 OWTS

Pond Complex A
(SEE SHEET 28)

EXISTING ACCESS EASEMENT (TYP)

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

See Sheet 15

Lot 1
(17.97 AC)

NEW PUBLIC WELL LOCATION

STONE PATH FOR WELL ACCESS

ABANDONED EXISTING WELL

EXISTING WELL (TYP)

200' WELL RADIUS TO STORMWATER BMP

300' WELL RADIUS TO ISDS

INTERMITTENT STREAM <10' (TYP)

AP 14 LOT 206
N/F
BARBARA A WILLIAM
J ETUX AMS HAMILL

AP 14 LOT 213
N/F
WILLIAM J ETUX
AMS M HAMILL

AP 14 LOT 9
N/F
STEPHEN J ETUX
BRENDA L FRAZIER

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Scale: 1"=40'
0 20' 40' 80'

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The contractor is responsible for all of the means, methods, safety precautions and requirements, and OSHA conformance in the implementation of this plan and design.

No	Date	Description	Drawn By: J.A.D. / Design By: B.D.C.
6	10-15-2018	RIDEM Response to Comments	J.A.C.
5	9-13-2018	RIDEM Response to Comments	J.A.C.
4	2-21-2018	RIDEM Response to Comments	D.R.N.
3	6-5-2017	RIDEM Master Plan Insistence to Comments	D.R.N.
2	5-12-2017	RIDEM Master Plan Insistence	D.R.N.
1	8-13-2015	Site Plan/Utility Submission	B.F.I.
0	8-10-2015	RIDEM/DOT Submissions	B.D.

Site Layout Plan - 1

Glacier Ridge
Assessor's Plat 14 Lots 10, 11, 12, & 18-20
Glocester, Rhode Island 02814

Applicant
Adler Brothers Construction Co.
604 Putnam Pike, Greenville, Rhode Island 02828

DE Job No: 2139-001 Copyright 2017 by DiPrete Engineering Associates, Inc.

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AP 14 LOT 3
N/F
KATHLEEN K
TURNBULL

AP 14 LOT 13
N/F
MARIE A. ET VIR
DENNIS W. ROBIDOUX

AP 14 LOT 251
N/F
JOHN W. &
AUDREY M BOYLE

EXISTING
WELL (TYP)

AP 14 LOT 250
N/F
JAMES C ETUX
JULIE GREENE

B9
B8
B7
B6

FUTURE OWTS
(TYP)

BUILDING 4
OWTS

Lot 5
(1.22 AC)

PHASE 1 LIMIT OF DISTURBANCE
IN ACCORDANCE WITH EXISTING
MSGP PERMIT (APPLICATION NO
RIR50J005)

Lot 7
(8.34 AC)

Building 4
(BANK)
3,200 SF

Building 3
(GAS STATION)
4,700 SF

PUTNAM PIKE ROAD
WIDENING. FOR ALL WORK
PROPOSED WITHIN PUTNAM
PIKE REFER TO BETA
ENGINEERING SITE PLANS

BUILDING SETBACK (TYP)

BUILDING 3
OWTS

Lot 4
(2.08 AC)

Bioretention C
(SEE SHEET 28)

PARKING
COUNT (TYP)

UNDERGROUND
TANKS

STOP SIGN
(TYP)

CONCRETE
PADS

SIGN

BOLLARDS
(TYP)

GAS PUMPS
(TYP)

DUMPSTER
AREA (TYP)

Putnam Pike (Route 44)
(60' WIDE PUBLIC RIGHT OF WAY)
(STATE HIGHWAY PLAT #268)

FUTURE DEVELOPMENT
TO BE PERMITTED
SEPARATELY (TYP)

Phase 1
Phase 2
Phase 3
Phase 4

BITUMINOUS BERM
IN ROADWAYS (TYP)

HEAVY DUTY
PAVEMENT IN
ROADWAY (TYP)

Lot 6
(5.81 AC)

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 06 2020 FILE # 15-0176
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

See Sheet 14

See Sheet 12

Scale: 1"=40'
0 20' 40' 80'

DiPrete Engineering
Two Stafford Court Cranston, RI 02920
tel 401-943-1000 fax 401-464-6006 www.diprete-eng.com
Boston • Providence • Newport

BRANDON D. CARR
9801
10/15/2018
REGISTERED
PROFESSIONAL ENGINEER
CIVIL

This regulatory submission set shall not be used for construction purposes unless stamped 'Issued for Construction' and signed by a DiPrete Engineering representative.

The contractor is responsible for all of the means, methods, safety precautions and requirements, and OSHA conformance in the implementation of this plan and design.

No.	Date	Description	By
6	10-15-2018	RIDEM Response to Comments	JAC
5	9-11-2018	RIDEM Response to Comments	JAC
4	4-11-2018	RIDEM Response to Comments	D.K.N.
3	6-5-2017	RIDEM Master Plan Response to Comments	D.K.N.
2	5-31-2017	RIDEM Master Plan Submission	D.K.N.
1	5-31-2015	Site Suitability Submission	B.F.
0	8-10-2015	RIDEM/RIDOT Submissions	J.A.D.

Drawn By: J.A.D. Design By: B.D.C.

Site Layout Plan - 2

Glacier Ridge

Assessor's Plat 14, Lots 10, 11, 12, & 18-20
Glocester, Rhode Island 02814

Applicant
Adler Brothers Construction Co.
604 Putnam Pike, Greenville, Rhode Island 02828

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Boston • Providence • Newport

BRANDON D. CARR
9801
10/15/2018
REGISTERED PROFESSIONAL ENGINEER
CIVIL

This regulatory submission set shall not be used for construction purposes unless signed and issued for Construction and signed by a DiPrete Engineering representative.

The contractor is responsible for all of the means, methods, safety precautions and requirements, and OSHA conformance in the implementation of this plan and design.

No.	Date	Description	By
6	10-15-2018	RIDEM Response to Comments	E.A.C.
5	9-6-2018	RIDEM Response to Comments	D.R.N.
4	6-1-2018	RIDEM Response to Comments	D.R.N.
3	12-1-2017	RIDEM Master Plan Response to Comments	D.R.N.
2	8-31-2015	RIDEM Master Plan Submission	E.F.C.
1	8-31-2015	Site Plan/Utility Submission	A.D.L.

Drawn By: J.A.D. Design By: B.D.C.

Site Layout Plan - 3

Glacier Ridge

Assessor's Plat 14 Lots 10, 11, 12, & 18-20
Glocester, Rhode Island 02814

Applicant
Adler Brothers Construction Co.
604 Putnam Pike, Greenville, Rhode Island 02828

DE Job No: 2139-001

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See Sheet 14

Phase 2
Phase 1

FUTURE DEVELOPMENT TO BE PERMITTED SEPARATELY (TYP)

POND ACCESS (TYP–SEE DETAIL)

Pond Complex B
(SEE SHEET 29)

BUILDING SETBACK (TYP)

Phase 4
Phase 1

Lot 10
(24.65 AC)

PROPOSED WELL (TYP)

Lot 1
(17.97 AC)

A31 A32 A33 A34 A35 A36 A37 A38 A39

See Sheet 12

A45 A46 A47 A48 A49 A50 A51

AP 14 LOT 209
N/F
JJA CORP

AP 14 LOT 237
N/F
MATTHEW S.
LAMONTAGNE

AP 14 LOT 189
N/F
CAROL A & CRISTEN A
GABRIELE

EXISTING WELL (TYP)

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 06 2020 FILE # 15-0176
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Scale: 1"=40'
0 20' 40' 80'

DiPrete Engineering
Two Stafford Court Cranston, RI 02920
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BRANDON D. CARR
9801
10/6/2020
REGISTERED PROFESSIONAL ENGINEER
CIVIL

This regulatory submission set shall not be used for construction purposes unless stamped 'Issued for Construction' and signed by a DiPrete Engineering representative.

The contractor is responsible for all of the means, methods, safety precautions and requirements, and OSHA compliance in the implementation of this plan and design.

No.	Date	Description	By:
6	10-12-2018	RIDEM Response to Comments	LA.C.
5	5-14-2018	RIDEM Response to Comments	D.R.N.
4	4-17-2018	RIDEM Response to Comments	A.S.C.
3	6-6-2017	RIDEM Master Plan Response to Comments	D.R.N.
2	8-3-2015	RIDEM Response to Comments	A.S.C.
1	6-19-2015	RIDEM/RIDOT Submissions	A.S.C.
0	5-18-2015	RIDEM/RIDOT Submissions	J.A.D.

Drawn By: J.A.D. Design By: B.D.C.

Site Layout Plan - 4

Glacier Ridge

Assessor's Plat 14, Lots 10, 12, & 18-20
Glocester, Rhode Island 02814

Applicant
Adler Brothers Construction Co.
604 Putnam Pike, Greenville, Rhode Island 02828

SHEET 15 OF 33

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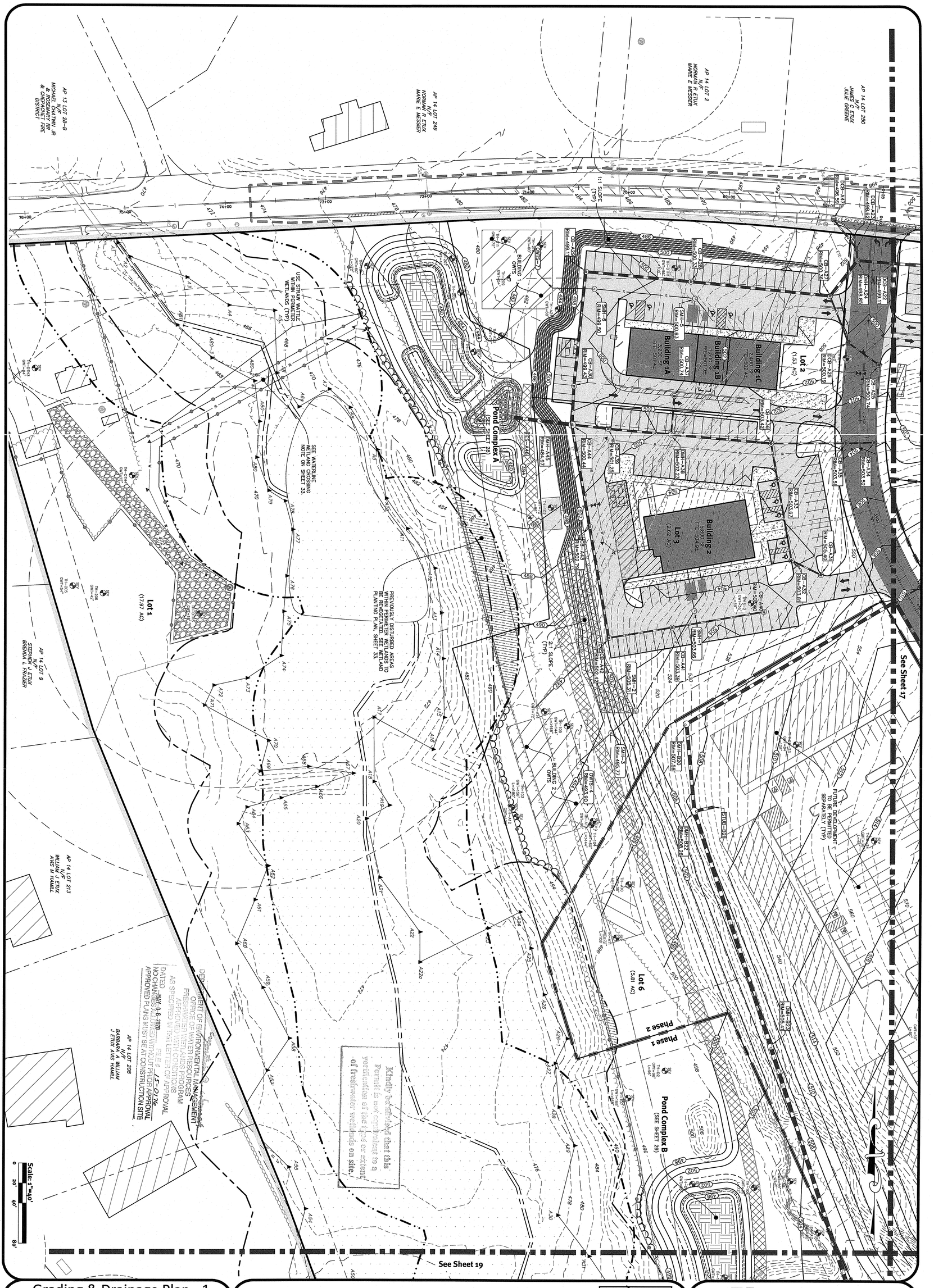

SHEET 16 OF 33

Grading & Drainage Plan - 1

Glacier Ridge

Assessor's Plat 14 Lots 10, 11, 12, & 18-20
Glocester, Rhode Island 02814

Applicant
Adler Brothers Construction Co.
604 Putnam Pike, Greenville, Rhode Island 02828

No.	Date	Description	By:
6	10-15-2018	RIDEM Response to Comments	J.A.C.
5	9-4-2018	RIDEM Response to Comments	D.R.N.
4	6-11-2018	RIDOT Response to Comments	D.R.N.
3	6-5-2017	RIDEM/Master Plan Response to Comments	D.R.N.
2	12-3-2015	RIDEM Response to Comments	M.S.C.
1	8-31-2015	Site Suitability Submission	B.F.L.
0	8-20-2015	RIDEM/RIDOH Submissions	J.A.D.

Drawn By: J.A.D. | Design By: B.D.C.

This regulatory submission set shall not be used for construction purposes unless stamped 'Issued for Construction' and signed by a DiPrete Engineering representative.

The contractor is responsible for all of the means, methods, safety precautions and requirements, and OSHA conformance in the implementation of this plan and design.

BRANDON D. CARR
PROFESSIONAL ENGINEER
CIVIL

DiPrete Engineering
Two Stafford Court Cranston, RI 02920
tel 401-943-1000 fax 401-464-6006 www.diprete-eng.com
Boston • Providence • Newport

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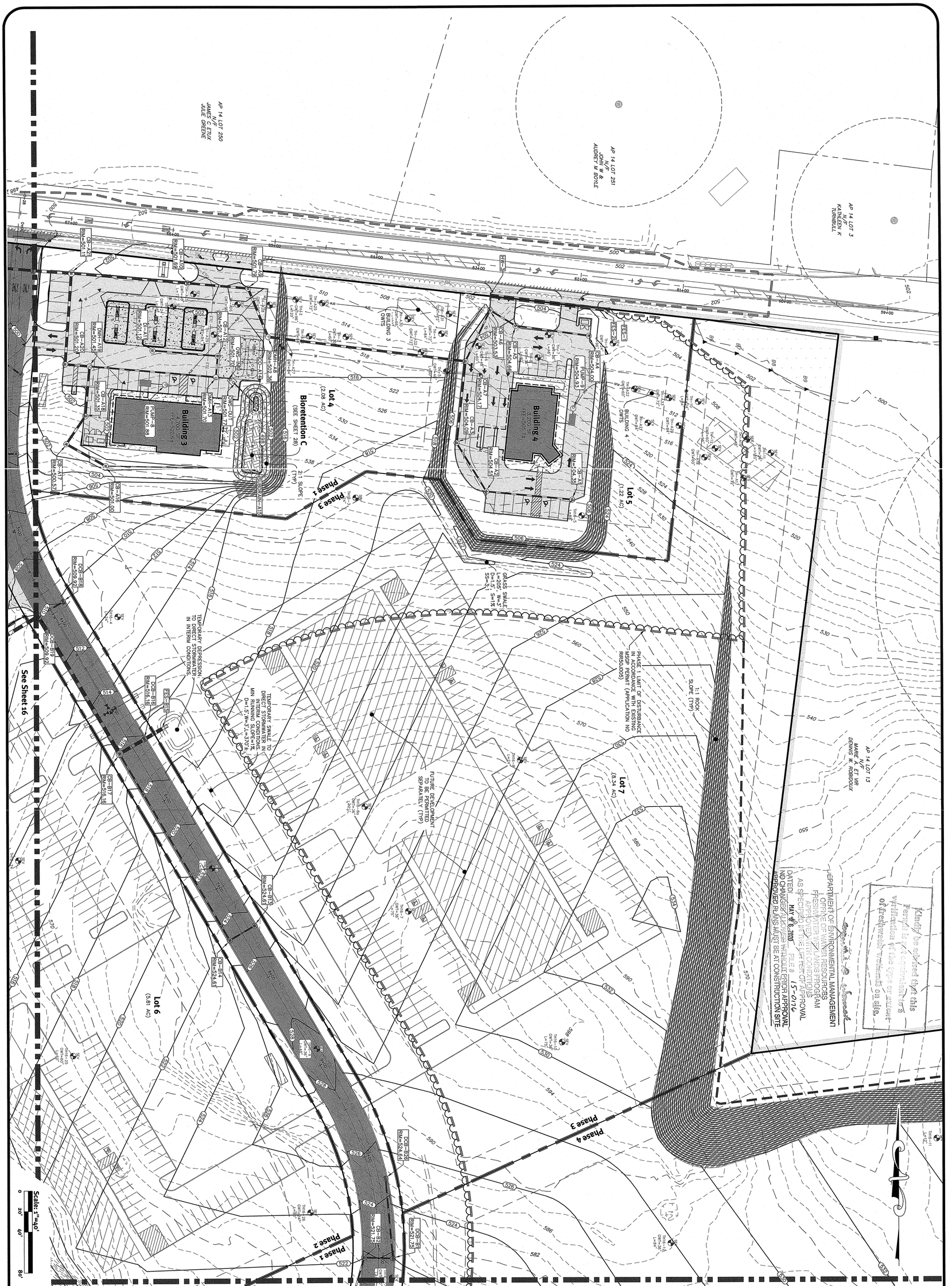

Grading & Drainage Plan - 2

Glacier Ridge

Assessor's Plat 14 Lots 10, 11, 12, & 18-20
Glocester, Rhode Island 02814

Applicant
Adler Brothers Construction Co.
604 Putnam Pike, Greenville, Rhode Island 02828

SHEET 17 OF 33

No.	Date	Description	By:
6	10-15-2018	RIDEM Response to Comments	J.A.C.
5	5-4-2018	RIDEM Response to Comments	D.R.N.
4	4-11-2018	RIDOT Response to Comments	D.R.N.
3	6-5-2017	RIDEM/Master Plan Response to Comments	D.R.N.
2	12-3-2015	RIDEM Response to Comments	M.S.C.
1	8-31-2015	Site Suitability Submission	R.P.L.
0	8-10-2015	RIDEM/RIDOH Submissions	J.A.D.

Drawn By: J.A.D. | Design By: B.D.C.

This regulatory submission set shall not be used for construction purposes unless stamped 'Issued for Construction' and signed by a DiPrete Engineering representative.

The contractor is responsible for all of the means, methods, safety precautions and requirements, and OSHA conformance in the implementation of this plan and design.

BRANDON D. CARR
REGISTERED PROFESSIONAL ENGINEER
No. 16781

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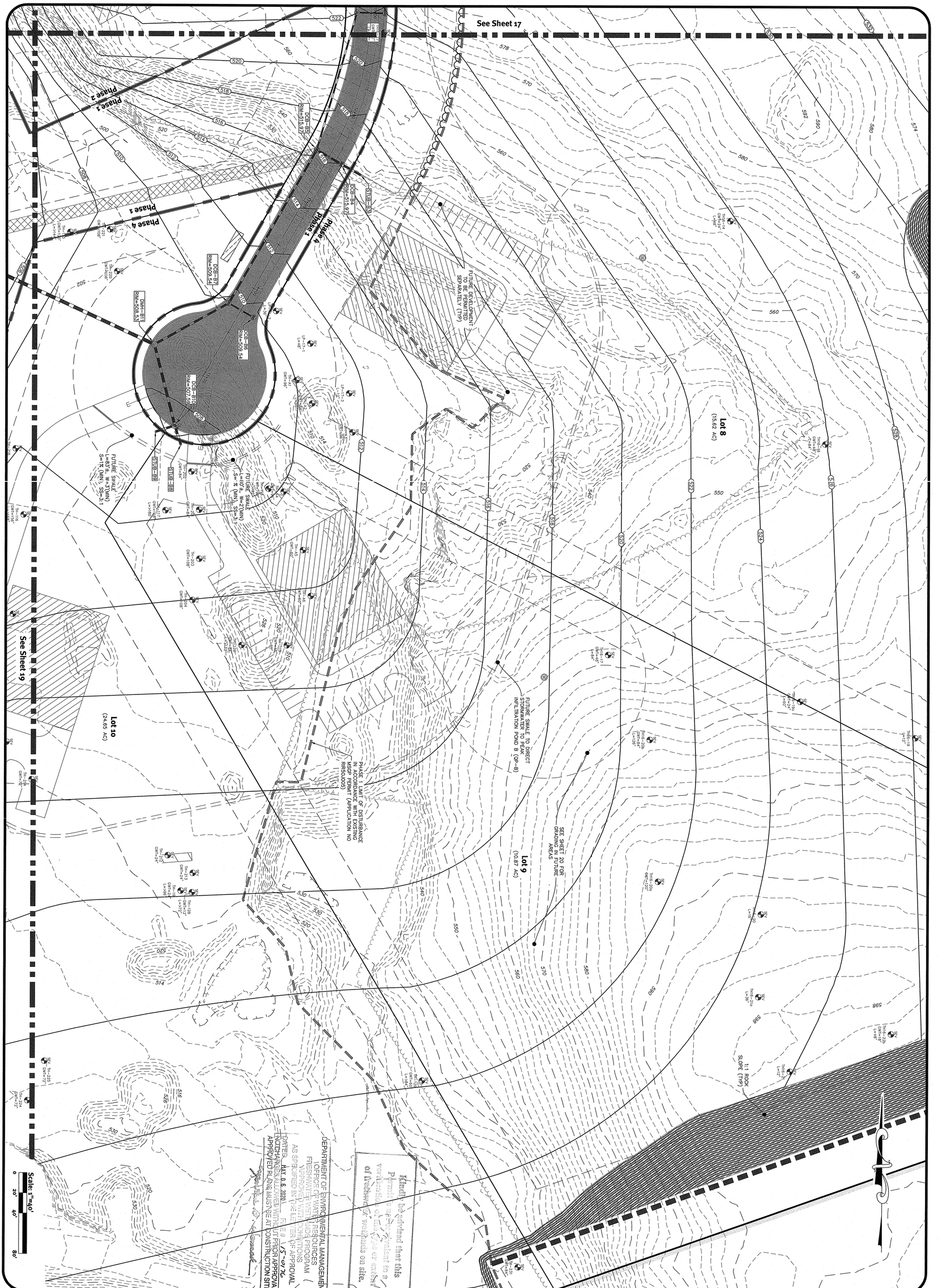

SHEET 18 OF 33

Grading & Drainage Plan - 3

Glacier Ridge

Assessor's Plat 14 Lots 10, 11, 12, & 18-20
Glocester, Rhode Island 02814

Applicant
Adler Brothers Construction Co.
604 Putnam Pike, Greenville, Rhode Island 02828

No.	Date	Description	By:
6	10-15-2018	RIDEM Response to Comments	J.A.C.
5	5-6-2018	RIDEM Response to Comments	D.R.N.
4	4-11-2018	RIDOT Response to Comments	D.R.N.
3	6-5-2017	RIDEM Master Plan Response to Comments	D.R.N.
2	12-3-2015	RIDEM Response to Comments	M.S.C.
1	8-31-2015	Site Suitability Submission	R.F.L.
0	8-10-2015	RIDEM/RIDOH Submissions	J.A.D.

Drawn By: J.A.D. | Design By: B.D.C.

This regulatory submission set shall not be used for construction purposes unless stamped 'Issued for Construction' and signed by a DiPrete Engineering representative.

The contractor is responsible for all of the means, methods, safety precautions and requirements, and OSHA conformance in the implementation of this plan and design.

BRANDON D. CARR
No. 16,903
REGISTERED PROFESSIONAL ENGINEER
CIVIL

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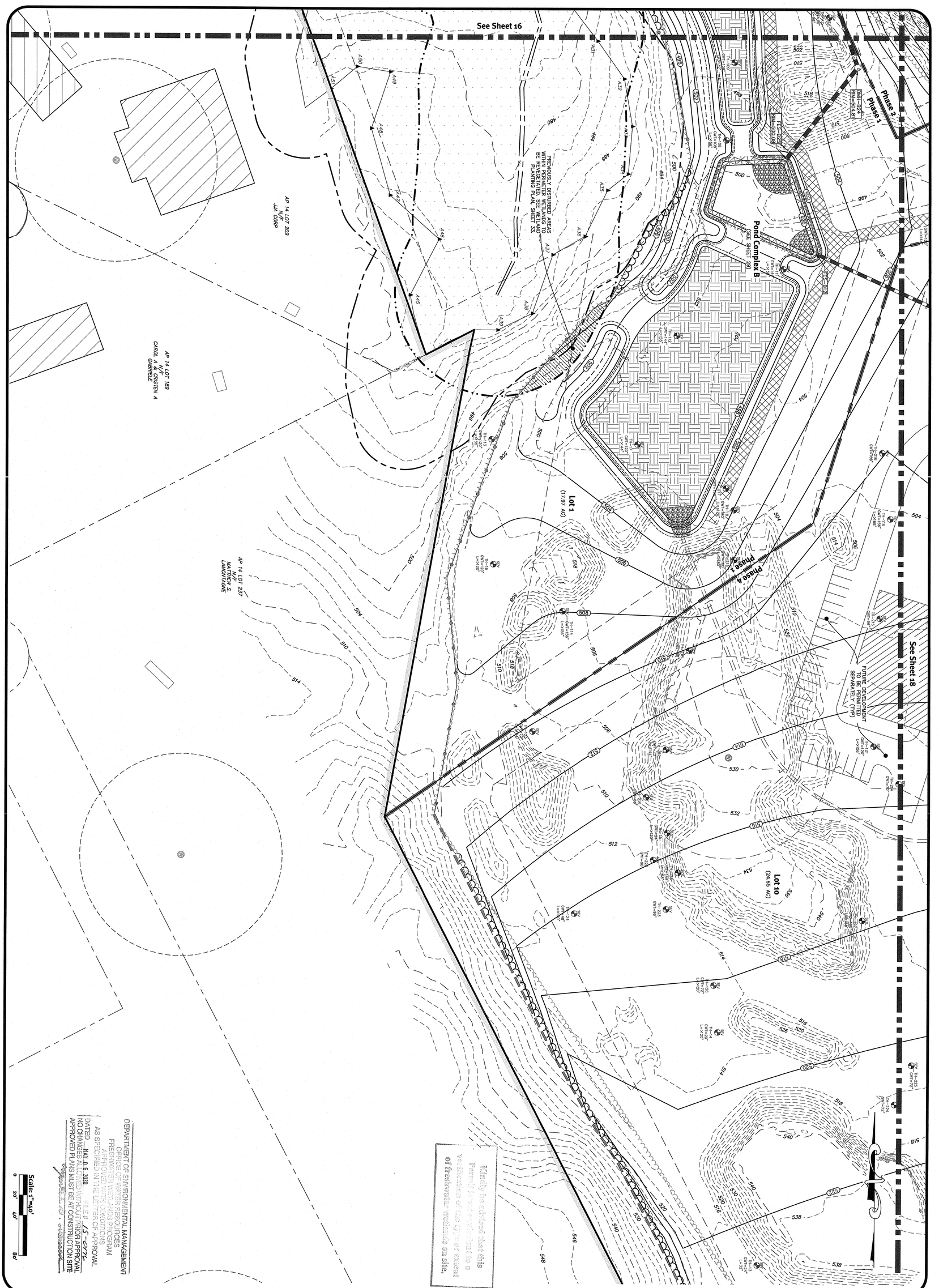

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 06 2020 FILE # 15-0276
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Kindly be advised that this Permit does not in any way constitute an opinion of the applicant's rights to the property or extent of freshwater wetlands on site.

Grading & Drainage Plan - 4

Glacier Ridge

Assessor's Plat 14 Lots 10, 11, 12, & 18-20
Glocester, Rhode Island 02814

Applicant
Adler Brothers Construction Co.
604 Putnam Pike, Greenville, Rhode Island 02828

SHEET 19 OF 33

No.	Date	Description	By:
6	10-15-2018	RIDEM Response to Comments	J.A.C.
5	5-4-2018	RIDEM Response to Comments	D.R.N.
4	4-11-2018	RIDOT Response to Comments	D.R.N.
3	6-5-2017	RIDEM/Master Plan Response to Comments	D.R.N.
2	12-3-2015	RIDEM Response to Comments	M.S.C.
1	8-31-2015	Site Suitability Submission	B.F.L.
0	8-10-2015	RIDEM/RIDOH Submissions	J.A.D.

Drawn By: J.A.D. | Design By: B.D.C.

This regulatory submission set shall not be used for construction purposes unless stamped 'Issued for Construction' and signed by a DiPrete Engineering representative.

The contractor is responsible for all of the means, methods, safety precautions and requirements, and OSHA conformance in the implementation of this plan and design.

BRANDON D. CARR
No. 13,961
REGISTERED PROFESSIONAL ENGINEER
STATE OF RHODE ISLAND

DiPrete Engineering
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Grading Plan - Future Grading

Glacier Ridge

Assessor's Plat 14 Lots 10, 11, 12, & 18-20
Glocester, Rhode Island 02814

Applicant

Adler Brothers Construction Co.
604 Putnam Pike, Greenville, Rhode Island 02828

SHEET 20 OF 33

No.	Date	Description	By:
6	10-15-2018	RIDEM Response to Comments	J.A.C.
5	5-6-2018	RIDEM Response to Comments	D.R.N.
4	4-11-2018	RIDOT Response to Comments	D.R.N.
3	6-5-2017	RIDEM/Master Plan Response to Comments	D.R.N.
2	12-3-2015	RIDEM Response to Comments	M.S.V.
1	8-31-2015	Site Suitability Submission	B.F.L.
0	8-10-2015	RIDEM/RIDOH Submissions	J.A.D.

Drawn By: J.A.D. | Design By: B.D.C.

This regulatory submission set shall not be used for construction purposes unless stamped 'Issued for Construction' and signed by a DiPrete Engineering representative.

The contractor is responsible for all of the means, methods, safety precautions and requirements, and OSHA conformance in the implementation of this plan and design.

BRANDON D. GASR
REGISTERED PROFESSIONAL ENGINEER
CIVIL

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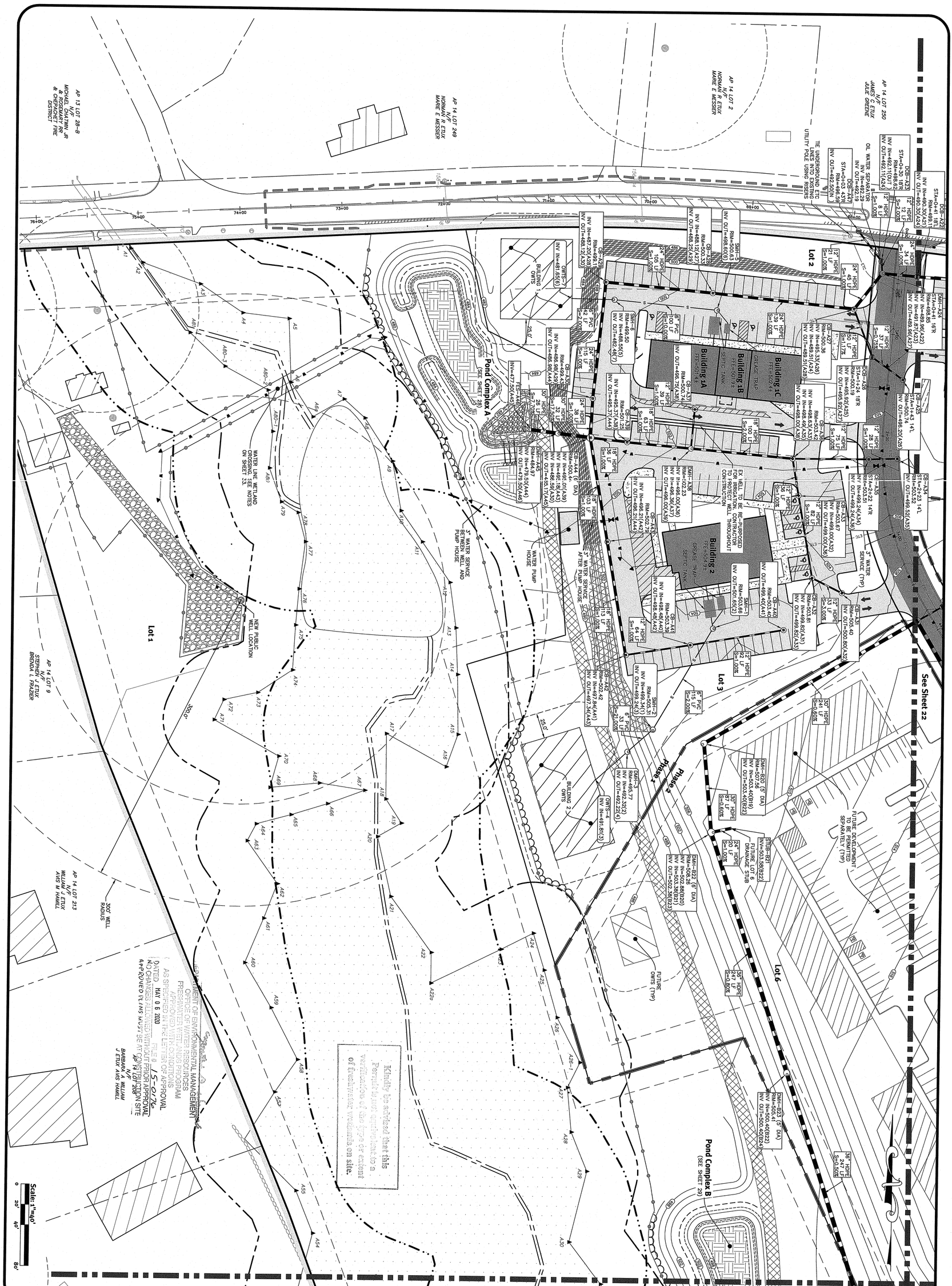

Kindly be advised that this Permit does not extend to the destruction of freshwater wetlands on site.

STATE OF RHODE ISLAND
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: MAY 06 2020
FILE # 15-0076
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE KEPT ON SITE

Utility Plan - 1

Glacier Ridge

Assessor's Plat 14 Lots 10, 11, 12, & 18-20
Glocester, Rhode Island 02814

Applicant
Adler Brothers Construction Co.
604 Putnam Pike, Greenville, Rhode Island 02828

SHEET 21 OF 33

No.	Date	Description	By:
6	10-15-2018	RIDEM Response to Comments	J.A.C.
5	5-4-2018	RIDEM Response to Comments	D.R.N.
4	4-11-2018	RIDOT Response to Comments	D.R.N.
3	6-5-2017	RIDEM/Master Plan Response to Comments	D.R.N.
2	12-3-2015	RIDEM Response to Comments	M.S.C.
1	8-31-2015	Site Suitability Submission	B.F.I.
0	8-10-2015	RIDEM/RIDOH Submissions	F.X.B.

Drawn By: J.A.D. | Design By: B.D.C.

This regulatory submission set shall not be used for construction purposes unless stamped 'Issued for Construction' and signed by a DiPrete Engineering representative.

The contractor is responsible for all of the means, methods, safety precautions and requirements, and OSHA conformance in the implementation of this plan and design.

BRANDON D. CARR
REGISTERED PROFESSIONAL ENGINEER
No. 19800
STATE OF RHODE ISLAND

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OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 06 2020 FILE # 15-0176
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

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AP 14 LOT 3
N/F
KATHLEEN K TURNBULL

AP 14 LOT 13
N/F
MARIE A. ET VIR
DENNIS W. ROBIDOUX

AP 14 LOT 251
N/F
JOHN W & AUDREY M BOYLE

AP 14 LOT 250
N/F
JAMES C ETUX JULIE GREENE

Lot 5

Lot 7

Lot 4

Lot 6

Building 4
FFE=505.7±
BUILDING 4 ROOFLEADER

Building 3
FFE=502.6±
SFM LIFT STATION
SEPTIC TANK
BUILDING 3 ROOFLEADER

BUILDING 4 OWTS

BUILDING 3 OWTS

FUTURE OWTS (TYP)

FUTURE LIMIT OF DISTURBANCE (TYP)

PHASE 1 LIMIT OF DISTURBANCE IN ACCORDANCE WITH EXISTING MSGP PERMIT (APPLICATION NO RIR50J005)

FUTURE DEVELOPMENT TO BE PERMITTED SEPARATELY (TYP)

SFM LIFT STATION

SEPTIC TANK

OIL WATER SEPARATOR
INV IN=497.77
INV OUT=497.67

CB–A1
RIM=504.35
INV OUT=500.35(A2)

CB–A2
RIM=504.51
INV IN=499.51(A1)
INV OUT=499.51(A3)

CB–A3
RIM=504.09
INV IN=498.96(A2)
INV OUT=498.46(A7)

CB–A4
RIM=504.00
INV OUT=500.00(A5)

CB–A5
RIM=504.66
INV IN=499.28(A4)
INV OUT=499.28(A6)

CB–A6
RIM=503.53
INV IN=498.99(A5)
INV OUT=498.99(A7)

CB–A7
RIM=504.17
INV IN=497.66(A3)
INV IN=498.44(A6)
INV OUT=497.66(A8)

CB–A8
RIM=501.79
INV IN=495.21(A8)
INV OUT=495.21(A10)

CB–A10
RIM=501.69
INV IN=494.62(A9)
INV OUT=494.62(A21)

CB–A12
RIM=501.23
INV IN=498.11(A11)
INV OUT=498.11(A13)

DI–A11
RIM=501.12
INV OUT=498.74(A12)

CB–A14
INV=496.25(OUT)

CB–A16
RIM=501.00
INV IN=493.87(A15)
INV OUT=493.37(A17)

CB–A17
RIM=500.57
INV IN=493.04(A16)
INV OUT=493.04(A18)

CB–A18
RIM=501.35
INV IN=492.79(A17)
INV OUT=492.79(A19)

CB–A20
RIM=501.20
INV IN=492.06(A19)
INV OUT=491.56(A21)

CB–A21 (5' DIA)
RIM=501.11
INV IN=493.48(A10)
INV IN=490.67(A20)
INV OUT=490.68(A22)

DMH–A8
RIM=502.36
INV IN=495.72(A7)
INV OUT=495.72(A9)

DMH–A13 (BYPASS)
RIM=501.70
INV IN=498.00(A12)
INV OUT=498.00(IN)
INV OUT=498.00(A19)

DMH–A19
RIM=501.45
INV IN=492.30(A18)
INV IN=496.76(A13)
INV OUT=492.30(A20)

SUBDRAIN–A15
INV=494.58(A16)

FES–A1
INV=500.44(3)

FES–A2
INV=500.44(4)

FES–B16
INV=510.70(B16)

FES–B18
INV=506.64(B18)

DCB–B1
STA=11+00 14'L
RIM=521.75
INV IN=517.75(B26)
INV OUT=517.75(B2)

DCB–B2
STA=11+00 14'R
RIM=521.75
INV IN=517.47(B1)
INV OUT=517.47(B5)

DCB–B26
STA=10+25 14'L
RIM=524.64
INV OUT=520.65(B1)

CB–B13
STA=7+50 14'L
RIM=524.61
INV OUT=519.13(B14)

CB–B14
STA=7+50 14'R
RIM=524.61
INV IN=518.85(B13)
INV OUT=518.85(B17)

DCB–B16
STA=5+39 14'L
RIM=516.16
INV IN=510.50(B15)
INV OUT=510.50(B17)

CB–B17 (6' DIA)
STA=5+39 14'R
RIM=516.16
INV IN=511.98(B14)
INV IN=510.22(B16)
INV OUT=510.22(B19)

DCB–B18
STA=3+83 14'L
RIM=509.92
INV OUT=506.64(B19)

DCB–B19 (6' DIA)
STA=3+83 14'R
RIM=509.92
INV IN=504.84(B17)
INV IN=506.36(B18)
INV OUT=504.84(B20)

12" HDPE 72 LF S=1.00%
12" HDPE 84 LF S=1.00%
12" HDPE 29 LF S=1.00% ETC
12" HDPE 56 LF S=1.00%
12" HDPE 56 LF S=1.00%
18" HDPE 80 LF S=1.00%
18" HDPE 194 LF S=1.00%
18" HDPE 51 LF S=1.00%
6" HDPE 25 LF S=6.30%
12" HDPE 21 LF S=0.52%
6" HDPE 13 LF S=0.50%
18" HDPE 59 LF S=1.00%
12" HDPE 64 LF S=1.00%
18" HDPE 114 LF S=1.00%
12" HDPE 124 LF S=1.00%
18" HDPE 24 LF S=1.00%
24" HDPE 37 LF S=1.00%
24" HDPE 89 LF S=1.00%
18" HDPE 33 LF S=0.75%
18" HDPE 44 LF S=0.75%
18" HDPE 49 LF S=1.00%
6" HDPE 142 LF S=0.50%
12" HDPE 28 LF S=1.00%
12" HDPE 211 LF S=3.25%
30" HDPE 20 LF S=1.00%
30" HDPE 28 LF S=1.00%
30" HDPE 156 LF S=3.45%
12" HDPE 28 LF S=1.00%
12" HDPE 78 LF S=3.70%
12" HDPE 28 LF S=1.00%

2–12" HDPE CULVERTS UNDER DRIVEWAY (111 LF, S=0.50%)

INSTALL HEADWALL WITH 2–12" PIPES SET AT INV=501.00

TIE UNDERGROUND ETC LINES INTO EXISTING UTILITY POLE USING RISERS

RELOCATE EXISTING UTILITY POLE AND TIE UNDERGROUND ETC LINES INTO POLE USING RISERS

3" WATER SERVICE

3" WATER SERVICE

SEE OWTS SLEEVE NOTE

Bioretention C
(SEE SHEET 28)

10,000 GALLON UNDERGROUND FIRE CISTERN TANK

10,000 GALLON UNDERGROUND FIRE CISTERN TANK

FUTURE LOT 7 DRAINAGE STUB TO BE FITTED WITH A FLARED END SECTION DURING INTERIM CONDITIONS

STUB ETC & WATER LINES FOR FUTURE CONNECTIONS (TYP)

OWTS SLEEVE NOTE:

SLEEVE BUILDING SEWER, EFFLUENT PIPE OR SEWER FORCE MAIN PIPING WHERE LOCATED WITHIN 10 FEET OF WATER SUPPLY LINE OR 25' OF DRAINAGE PIPING. THE SLEEVE SHALL BE SEAMLESS OR SCHEDULE 40 PVC OR EQUIVALENT WITH WATERTIGHT JOINTS AND IT SHALL HAVE A WATERTIGHT SEAL THAT IS FASTENED TO THE PIPES WITH A STAINLESS STEEL RETRACTABLE CLAMP.

Phase 1
Phase 2
Phase 3
Phase 4

See Sheet 21

See Sheet 23

Scale: 1"=40'
0 20' 40' 80'

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BRANDON D. CARR
9801
10/15/2018
REGISTERED PROFESSIONAL ENGINEER
CIVIL

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6	10-12-2018	RIDEM Response to Comments	JAC
5	9-11-2018	RIDEM Response to Comments	DKN
4	5-14-2018	RIDOT Response to Comments	JAC
3	4-5-2017	RIDEM Master Plan Response to Comments	DKN
2	8-12-2015	RIDEM Master Plan Submission	BJC
1	8-12-2015	Site Suitability Submission	JAC
0	8-12-2015	RIDEM/RIDOT Submissions	JAC

Drawn By: J.A.D. Design By: B.D.C.

Utility Plan - 2

Glacier Ridge

Assessor's Plat 14, Lots 10, 11, 12, & 18-20
Glocester, Rhode Island 02814

Applicant
Adler Brothers Construction Co.
604 Putnam Pike, Greenville, Rhode Island 02828

DE Job No: 2139-001

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SHEET 22 OF 33

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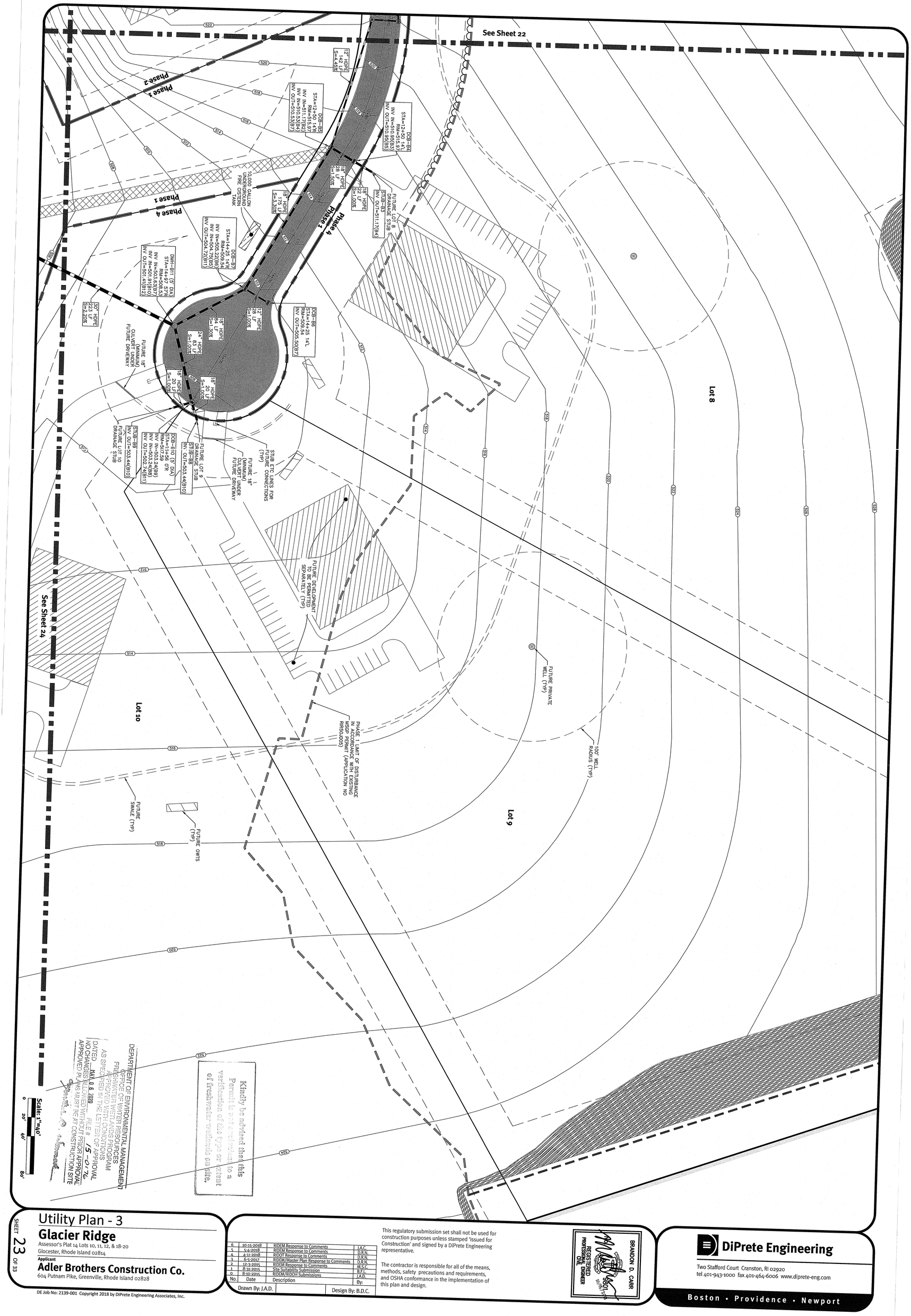

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
FRESHWATER WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WETLANDS PROGRAM
AS SPECIFIED IN THESE CONDITIONS
DATED MAY 06 2020 FILE # OF APPROVAL
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Kindly be advised that this Permit is authorization to a verification of the type or extent of freshwater wetlands on site.

Utility Plan - 3

Glacier Ridge

Assessor's Plat 14 Lots 10, 11, 12, & 18-20
Glocester, Rhode Island 02814

Applicant
Adler Brothers Construction Co.
604 Putnam Pike, Greenville, Rhode Island 02828

SHEET 23 OF 33

No.	Date	Description	By:
6	10-15-2018	RIDEM Response to Comments	J.A.C.
5	5-6-2018	RIDEM Response to Comments	D.R.N.
4	4-11-2018	RIDOT Response to Comments	D.R.N.
3	6-5-2017	RIDEM/Master Plan Response to Comments	D.R.N.
2	12-3-2015	RIDEM Response to Comments	M.S.C.
1	8-31-2015	Site Suitability Submission	B.F.I.
0	8-10-2015	RIDEM/RIDOT Submissions	J.A.D.

Drawn By: J.A.D. | Design By: B.D.C.

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BRANDON D. CARR
REGISTERED PROFESSIONAL ENGINEER
No. 19801

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See Sheet 23

Phase 2
Phase 1

DMH-B24 (5' DIA)
RIM=504.81
INV IN=499.17(B23)
INV OUT=499.17(B25)

30" HDPE
223 LF
S=2.20%

36" HDPE
115 LF
S=2.33%

FES-B12
INV IN=496.50(B11)

FES-B25
INV IN=496.50(B24)

Pond Complex B
(SEE SHEET 29)

FUTURE DEVELOPMENT
TO BE PERMITTED
SEPARATELY (TYP)

Phase 4
Phase 1

Lot 10

Lot 1

See Sheet 21

A31 A32 A33 A34 A35 A36 A37 A38 A39 A42 A45 A46 A48 A49 A50 A51

AP 14 LOT 209
N/F
JJA CORP

AP 14 LOT 237
N/F
MATTHEW S.
LAMONTAGNE

AP 14 LOT 189
N/F
CAROL A & CRISTEN A
GABRIELE

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 06 2020 FILE # 15-0176
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Scale: 1"=40'
0 20' 40' 80'

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6	10-15-2018	RIDEM Response to Comments	J.A.C.
5	5-6-2018	RIDEM Response to Comments	D.K.N.
4	4-4-2017	RIDEM Master Plan Response to Comments	D.K.N.
3	4-4-2017	RIDEM Master Plan Response to Comments	D.K.N.
2	8-3-2015	RIDEM Response to Comments	M.K.C.
1	5-12-2015	RIDEM/NRCM Submissions	J.A.D.
0	5-12-2015	RIDEM/NRCM Submissions	J.A.D.

Utility Plan - 4

Glacier Ridge
Assessor's Plat 14 Lots 10, 11, 12, & 18-20
Glocester, Rhode Island 02814

Applicant
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604 Putnam Pike, Greenville, Rhode Island 02828

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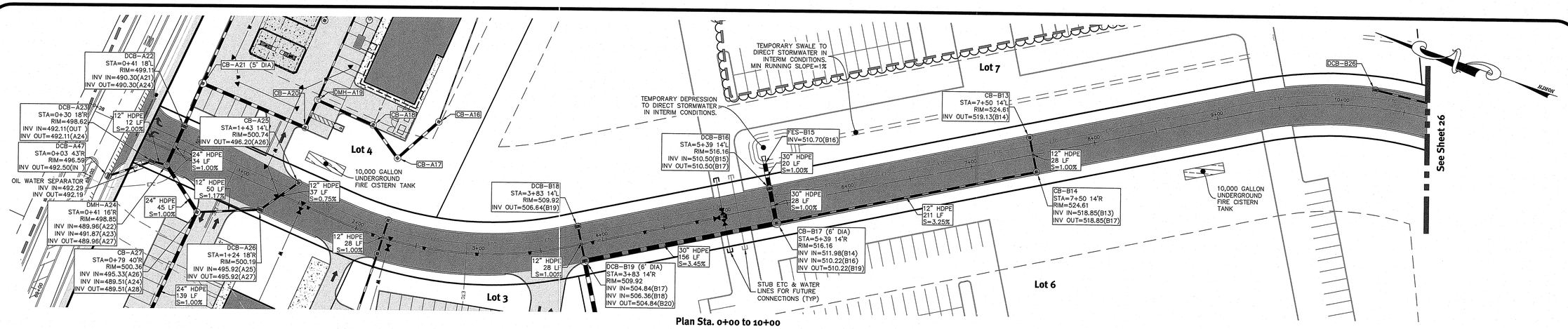

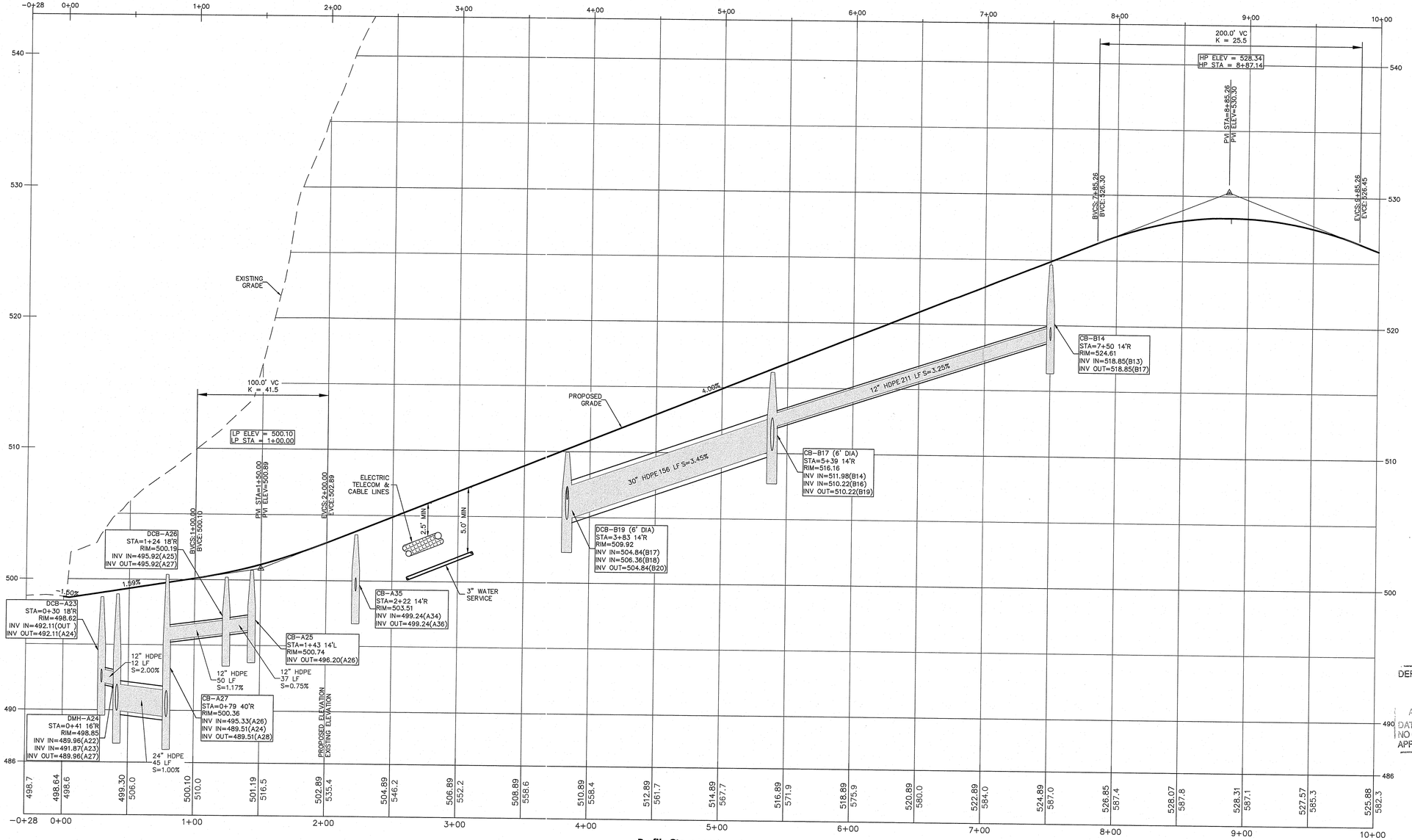

Profile Sta. 0+00 to 10+00

Vertical: 0 2' 4' 8'

Horizontal: 0 20' 40' 80'

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4	12-13-2017	RIDEM Response to Comments	D.K.N.
3	6-5-2017	RIDEM Master Plan Responses to Comments	D.K.N.
2	12-13-2015	RIDEM Response to Comments	B.S.C.
1	8-26-2015	RIDEM Response to Comments	B.S.C.
0	8-10-2015	RIDEM/CRMC Submissions	J.A.D.

Drawn By: J.A.D. Design By: B.D.C.

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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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Plan & Profile - Sta. 0+00 - 10+00

Glacier Ridge

Assessor's Plat 14 Lots 10, 11, 12, & 18-20
Gloucester, Rhode Island 02814

Applicant
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604 Putnam Pike, Greenville, Rhode Island 02828

SHEET 25 OF 33

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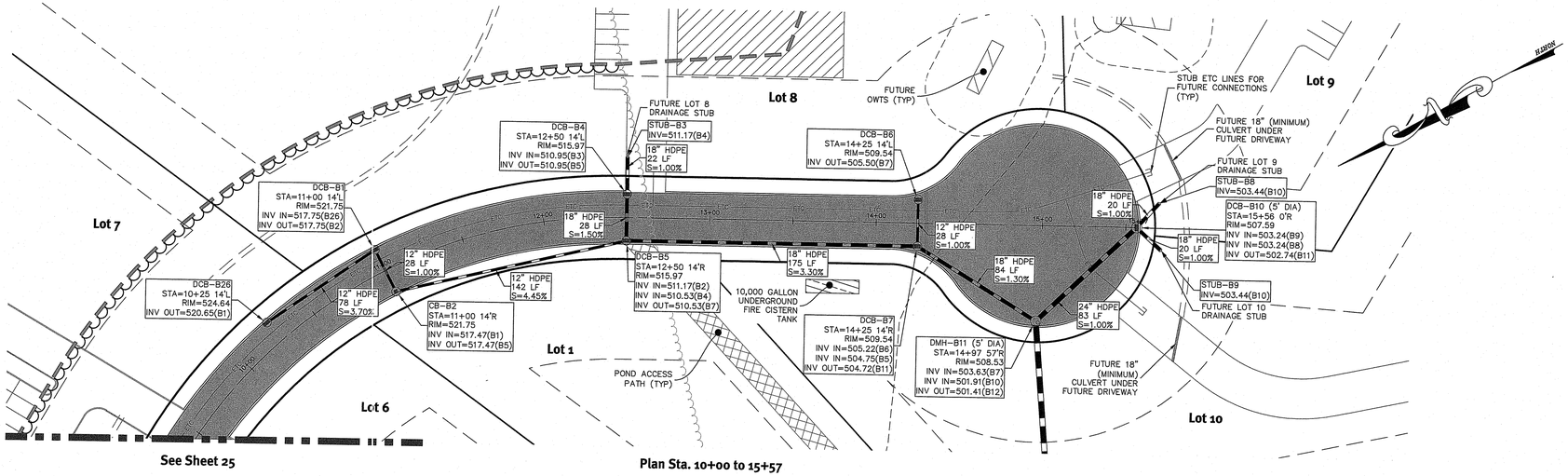
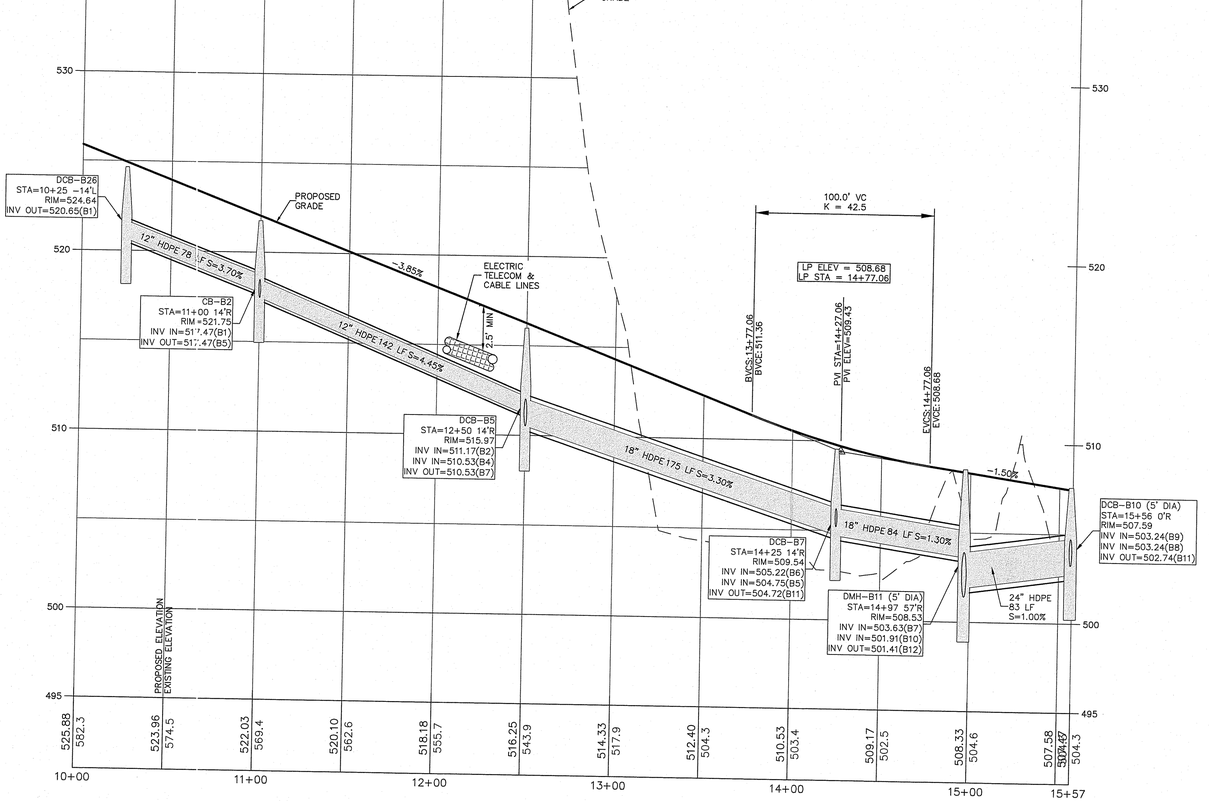


See Sheet 25

Plan Sta. 10+00 to 15+57



Profile Sta. 10+00 to 15+57

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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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Vertical: 0 2' 4' 8'
Horizontal: 0 20' 40' 80'

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4	4-5-2018	RIDEM Response to Comments	D.R.N.
3	2-23-2018	RIDEM Response to Comments	D.R.N.
2	12-13-2015	RIDEM Response to Comments	A.K.C.
1	10-30-2015	RIDEM Response to Comments	A.K.C.
0	8-10-2015	RIDEM/CRMC Submissions	B.D.C.

Drawn By: J.A.D. Design By: B.D.C.

Plan & Profile - Sta. 10+00 - 15+57

Glacier Ridge

Assessor's Plat 14 Lots 10, 12, & 18-20
Glocester, Rhode Island 02814

Applicant:
Adler Brothers Construction Co.
604 Putnam Pike, Greenville, Rhode Island 02828

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SHEET 26 OF 33

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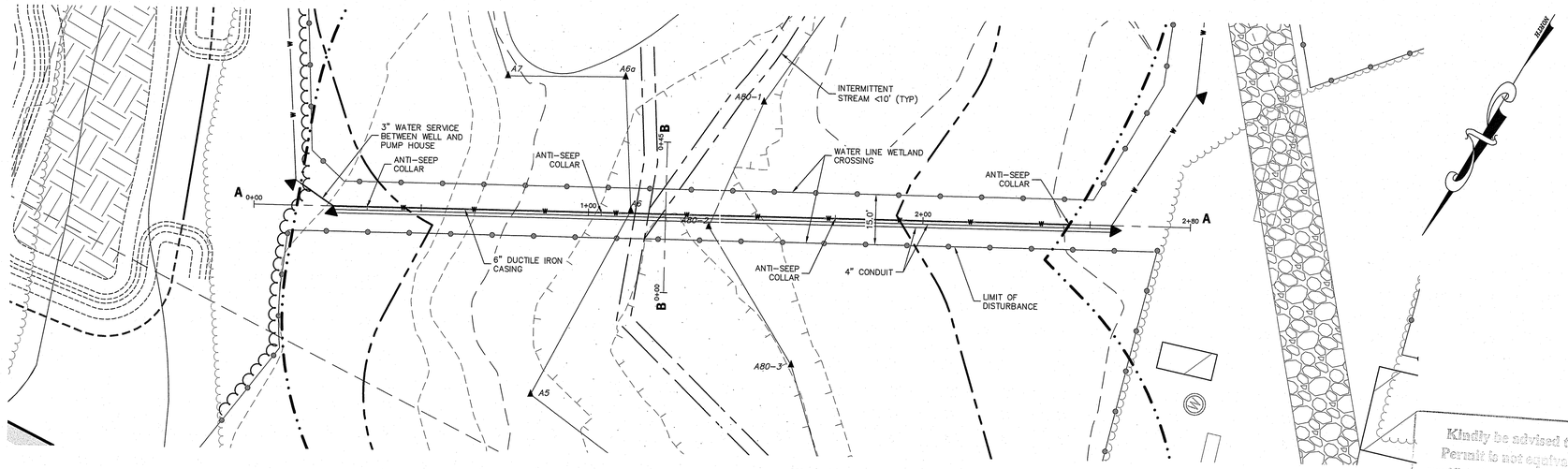
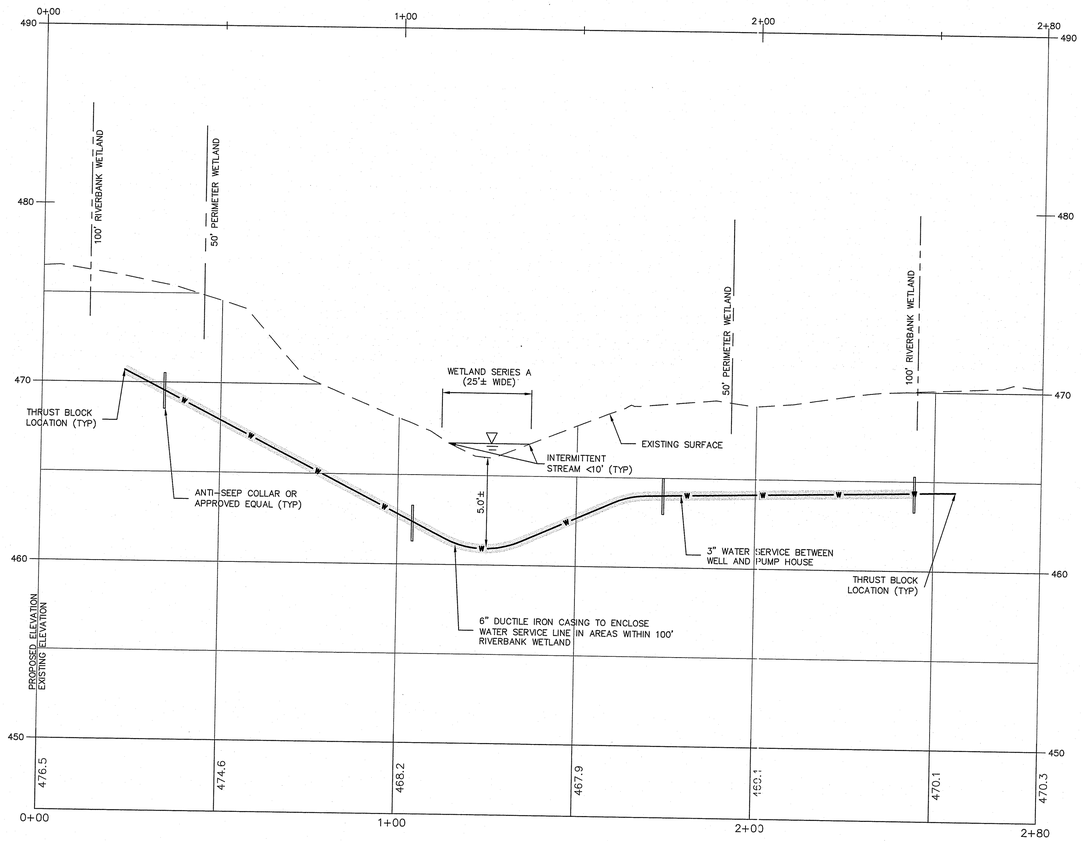


Water Line Wetland Crossing

Scale: 1"=20'

0 10' 20' 40'

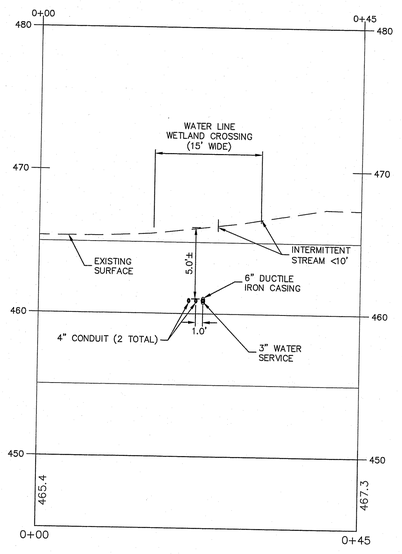
Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.



Profile Sta. 0+00 to 2+80 (A-A)

Vertical: 0 2' 4' 8'

Horizontal: 0 10' 20' 40'



Profile Sta. 0+00 to 0+45 (B-B)

Vertical: 0 5' 10'

Horizontal: 0 5' 10' 20'

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FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 06 2020 FILE # 15-0176
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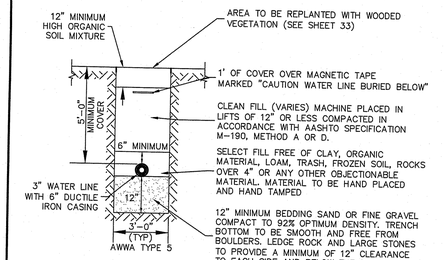
Water Line Wetland Crossing Construction Notes:

1. STREAM CROSSING IS TO BE COMPLETED DURING DRY SEASON WHEN CHANNEL HAS MINIMAL OR NO FLOW AND AT A TIME WHEN RAIN IS NOT FORECASTED FOR 3 DAYS. CONSTRUCTION IS TO BE COORDINATED SO THAT THE STREAM CROSSING CAN BE COMPLETED WITHIN ONE WORKDAY.
2. WATER MAIN TO BE INSTALLED TO WITHIN 10' OF CROSSING PRIOR TO BEGINNING WORK WITHIN STREAM IN ORDER TO MINIMIZE TIME ACTIVELY WORKING WITHIN THE STREAM CHANNEL AND ITS VICINITY.
3. IF IT IS NECESSARY TO DIVERT OR STOP STREAM FLOW, A SANDBAG DIVERSION BERM IS TO BE PLACED SOUTH OF THE PROPOSED WATER CROSSING. SANDBAGS SHOULD BE PLACED IN A PYRAMID CONFIGURATION AT A 3:1 RATIO OF BASE WIDTH TO HEIGHT. STACK SANDBAGS IN ALTERNATING ROWS, ALTERNATING JOINTS BETWEEN LAYERS.
4. BEGIN EXCAVATION IN STREAMBED FOR WATER MAIN INSTALLATION. EXCAVATE TRENCH, PLACE BEDDING MATERIALS AND INSTALL WATER MAIN. TEST WATER MAIN WITHIN CROSSING.
5. WATER MAIN AND CONDUITS CAN BE SHIFTED 2-4' FROM PROPOSED LOCATION WITHIN THE WATER LINE WETLAND CROSSING TO AVOID ANY LARGE DIAMETER TREES AND MINIMIZE WETLAND DISTURBANCES.
6. INSTALL ANTI-SEEP COLLARS OR APPROVED EQUAL AT APPROXIMATELY 70' ON CENTER FROM ONE 100' RIVERBANK WETLAND TO THE OTHER (4 TOTAL) TO PREVENT SUBDRAINING AND GROUNDWATER MOVEMENT.
7. BACKFILL AND COMPACT TRENCH TO ORIGINAL STREAMBED ELEVATION.
8. RESTORE/REVEGATATE WITH NATIVE PLANTINGS. SEE WETLAND & PERIMETER WETLAND RESTORATION NOTE.

Water Line Wetland Crossing Maintenance Notes:

1. SITE OWNER IS TO MAINTAIN THE WATER LINE WETLAND CROSSING ON A QUARTERLY BASIS BY HAND CUTTING, TRIMMING OR MOWING THE AREA AS APPLICABLE.
2. THE USE OF ANY CHEMICALS, PESTICIDES OR PRESCRIBED BURNING WITHIN THE CROSSING AREA IS NOT PERMITTED.
3. USE WIDE-TIRED VEHICLES WHEN WORKING IN OR NEAR THE WETLAND TO CAUSE LESS RUTTING AND SOIL DISTURBANCE.

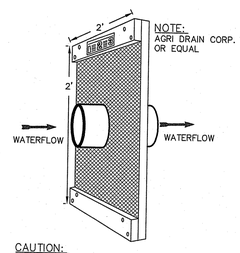


Water Trench Detail

NOT TO SCALE

INSTALLATION NOTES:

1. UNROLL THE ANTI-SEEP COLLAR AND ALIGN THE BOARDS TO FORM A SQUARE. ATTACH METAL BRACKETS TO THE CORNER OF THE BOARDS WITH THE SCREWS PROVIDED. ATTACH THE RUBBER TO THE FRAME WITH THE NAILS PROVIDED.
2. CUT A ROUND HOLE IN THE CENTER OF THE RUBBER THAT IS SMALLER THAN THE PIPE SIZE (APPROX. 33% SMALLER). THIS WILL ALLOW THE RUBBER TO STRETCH OVER THE PIPE WHEN THE ANTI-SEEP IS INSTALLED ON THE PIPE. THIS WILL PROVIDE A TIGHT SEAL BETWEEN THE PIPE AND THE ANTI-SEEP COLLAR. NOTE: CUTTING AN "X" OR SLIT WILL CAUSE THE RUBBER TO TEAR.
3. SLIP THE PIPE THROUGH THE ANTI-SEEP COLLAR, INSPECT THE SEAL BETWEEN THE PIPE AND THE ANTI-SEEP COLLAR, CAREFULLY BACKFILL, AND COMPACT WITH SUITABLE SOIL.



NOTE:
AGRI DRAIN CORP. OR EQUAL

CAUTION:
EXCESSIVE COMPACTION OR DOWNWARD PRESSURE ON FRAME WILL CAUSE RUBBER TO STRETCH AND DISTORT, RESULTING IN LOSS OF SEAL BETWEEN RUBBER AND PIPE.

Anti-Seep Collar

NOT TO SCALE

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3	6-5-2017	RIDEM/Master Plan Response to Comments	D.K.N.
2	5-31-2017	RIDEM/Master Plan Submissions	B.S.C.
1	8-14-2015	Site Suitability Submissions	JAD
0	8-10-2015	RIDEM/RIDOT Submissions	JAD

Drawn By: J.A.D. Design By: B.D.C.

Water Line Wetland Crossing

Glacier Ridge

Assessor's Plat 14 Lots 10, 11, 12, & 18-20
Glocester, Rhode Island 02814

Applicant
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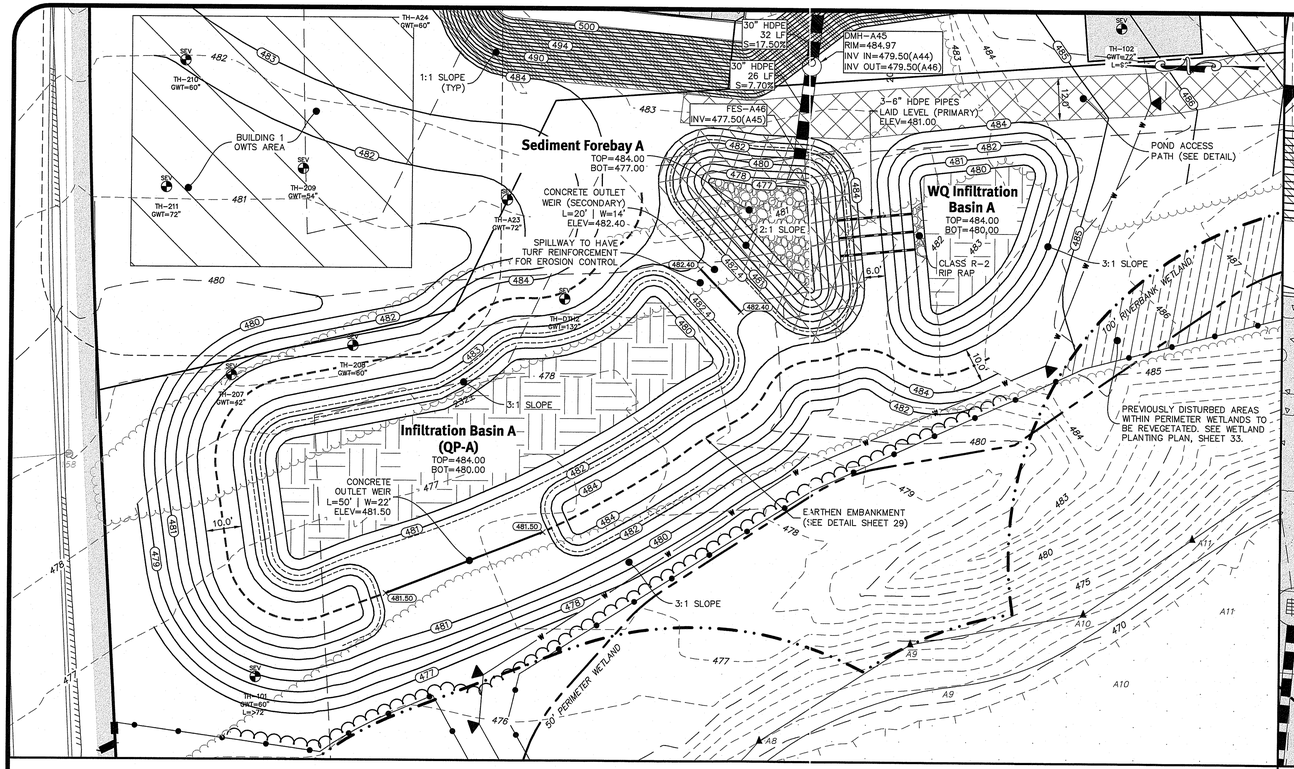


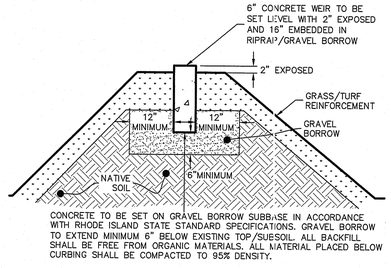
Pond Complex A

Scale: 1"=20'

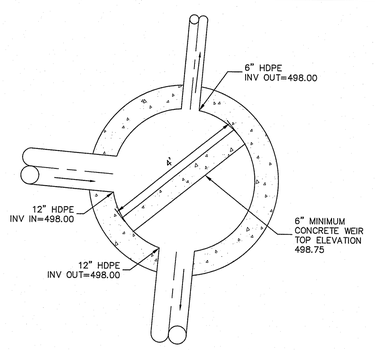
Bioretention C

Scale: 1"=10'

LOCATION	TOP OF POND ELEV.	WEIR INVERT
SF-A	484.00	482.40
QP-A	484.00	481.50



Concrete Outlet Weir Cross Section
NOT TO SCALE



BYPASS DMH-A13 (4'Ø MANHOLE)
SCALE 1"=2'

NOTES:
1. BIORETENTION AREAS SHALL BE HAND COMPACTED ONLY. NO MACHINES SHALL BE DRIVEN THROUGH OR OPERATED WITHIN THE BIORETENTION FOOTPRINT.
2. BIORETENTION AREAS SHALL BE PROTECTED WITH SILT FENCE (RIDOT STD 9.2.0) OR APPROVED EQUAL ONCE BIORETENTION SOIL HAS BE INSTALLED. AREA IS TO REMAIN PROTECTED UNTIL ALL TRIBUTARY AREAS HAVE BEEN STABILIZED AND APPROVAL FROM THE DESIGN ENGINEER. NO CONSTRUCTION TRAFFIC IS ALLOWED ON BIORETENTION MEDIA.
3. BIORETENTION AREAS DESIGNED AS AN INFILTRATION SYSTEM SHALL BE PROTECTED WITH SILT FENCE (RIDOT STD 9.2.0) OR APPROVED EQUAL AT THE START OF CONSTRUCTION. NO CONSTRUCTION TRAFFIC IS ALLOWED WITHIN BIORETENTION LIMITS THROUGHOUT CONSTRUCTION.
4. THE MULCH LAYER SHALL BE SHREDDED HARDWOOD MULCH THAT IS WELL (AGED STOCKPILED/STORED FOR AT LEAST 6 MONTHS), UNIFORM IN COLOR, AND FREE OF OTHER MATERIALS (WEED SEEDS, SOIL, ROOTS ETC.).
5. SOIL LINER SHALL BE 1' MINIMUM THICKNESS AND HAVE A MAXIMUM PERMEABILITY OF 0.03 FT/DAY (1*10^-5 CM/SEC). LINER MAY BE COMPRISED OF NATIVE MATERIALS WITH MIN OF 90% PASSING THE #200 SIEVE OR CLAY WITH A MINIMUM OF 15% PASSING THE #200 SIEVE.

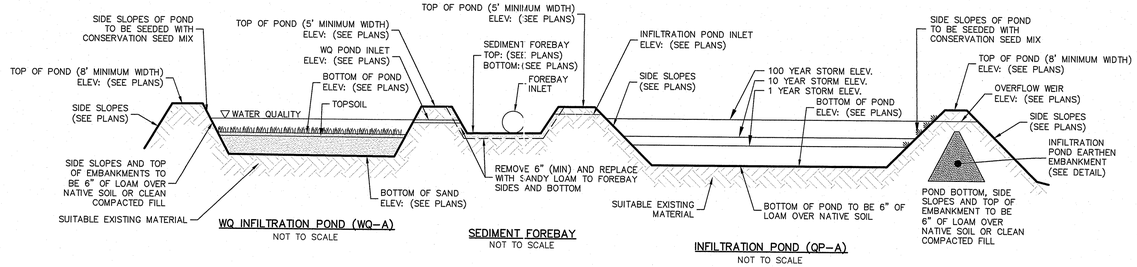
DESCRIPTION	BIO-C
AVAILABLE STORAGE ELEVATION	502.00
100 YEAR STORM ELEVATION	499.28
10 YEAR STORM ELEVATION	498.81
1 YEAR STORM ELEVATION	498.00
OUTLET ELEVATION (SUBDRAIN)	494.58
TOP OF MULCH	496.75
BIO-MEDIA LAYER DEPTH	2.5'
SEASONAL HIGH GWT ELEVATION*	N/A*

*BIORETENTION C IS PROPOSED IN LEDGE. SEPARATION TO SEASONAL HIGH GROUNDWATER PROVIDED BY LINER.

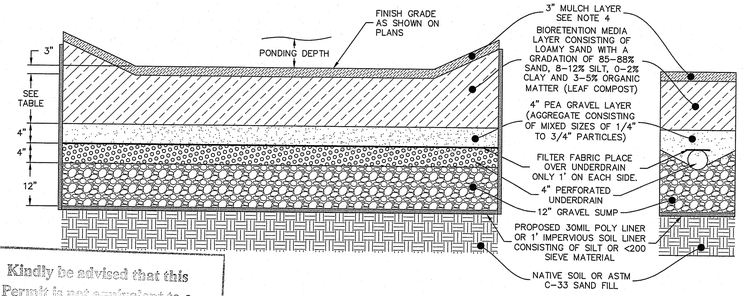
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 06 2020 FILE # 15-0176
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

DESCRIPTION	WQ-A	QP-A
TOP OF POND ELEVATION	484.00	484.00
100 YEAR STORM ELEVATION	483.05	481.97
10 YEAR STORM ELEVATION	482.79	481.78
1 YEAR STORM ELEVATION	482.48	480.89
WQ STORM ELEVATION	482.22	–
BOTTOM OF POND ELEVATION	480.00	480.00
TOP SOIL DEPTH	6"	–
SAND DEPTH	18"	–
BOTTOM OF SAND ELEVATION	478.00	–
SEASONAL HIGH GWT ELEVATION	476.50	467.00
SOIL EVALUATION	TH-102	TH-DTH2

NOTE:
LIMITS OF INFILTRATION POND TO BE STAKED OUT AND NOT USED AS A TEMPORARY SEDIMENT BASIN DURING CONSTRUCTION (NO CONSTRUCTION TRAFFIC ALLOWED WITHIN FILTER LIMITS)



WQ Infiltration Pond BMP System
NOT TO SCALE



Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

Bioretention Cross Section With Underdrain And Liner
NOT TO SCALE

DiPrete Engineering
Two Stafford Court Cranston, RI 02920
tel 401-943-1000 fax 401-464-6006 www.diprete-eng.com
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BRANDON D. CARR
9801
10/15/2018
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6	10-15-2018	RIDEM Response to Comments	J.A.C.
5	10-12-2018	RIDEM Response to Comments	J.A.C.
4	4-11-2018	RIDEM Response to Comments	J.A.C.
3	6-5-2017	RIDEM Master Plan Response to Comments	J.A.C.
2	12-14-2015	Site Submittal Submission	B.F.L.
1	8-31-2015	Site Submittal Submission	J.A.C.
	8-10-2015	RIDEM/ACOE Submissions	J.A.C.

Drawn By: J.A.D. Design By: B.D.C.

Pond Complex A & Bio C Details
Glacier Ridge
Assessor's Plat 14 Lots 10, 11, 12, & 18-20
Glocester, Rhode Island 02814
Applicant
Adler Brothers Construction Co.
604 Putnam Pike, Greenville, Rhode Island 02828

SHEET 28 OF 33

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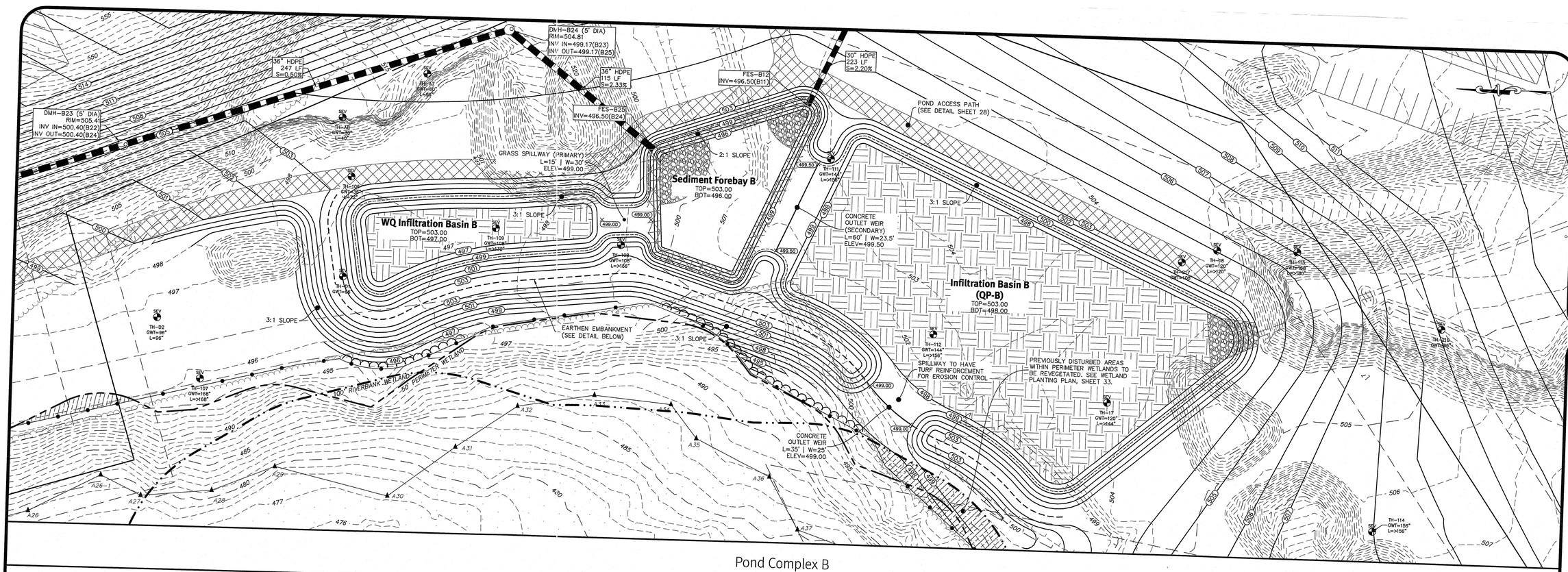
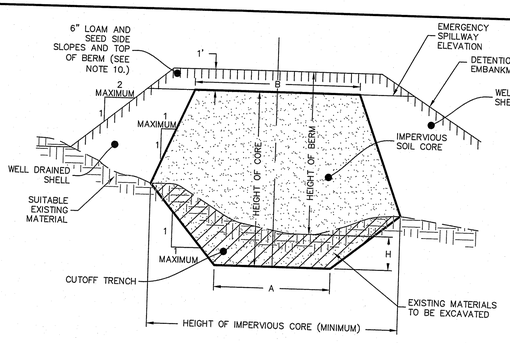


Pond Complex B

Scale: 1"=30'
0 15' 30' 60'

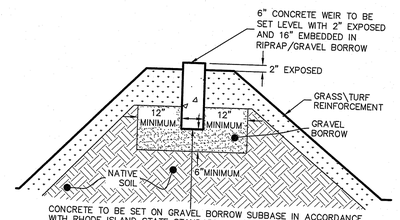


Detention Pond Earthen Embankment
NOT TO SCALE

BERM HEIGHT (FT)	TOP WIDTH OF CORE – B (FT)
0–6.5	8.2
6.6–9.8	9.2
9.9–13.1	9.8
13.2–16.4	10.8
16.5–19.7	11.5

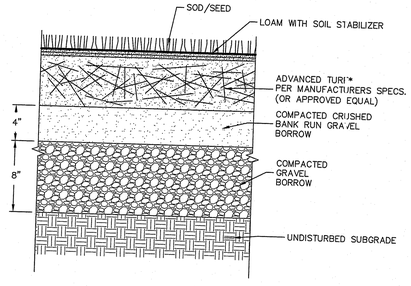
NOTES:
1. IMPERVIOUS SOIL CORE TO BE PROVIDED FOR ALL DETENTION POND EMBANKMENTS.
2. IMPERVIOUS SOIL CORE TO BE CONSTRUCTED OF MATERIAL CONSISTING OF SILT OR <200 SOIL.
3. WELL DRAINED SHELL TO BE CONSTRUCTED OF GRAVEL AND/OR SAND WITH LESS THAN 5% PASSING THE #200 SIEVE.
4. MINIMUM DEPTH OF CUTOFF TRENCH (H) SHALL BE 3/4 OF THE TOTAL BERM HEIGHT.
5. THE IMPERVIOUS CORE AT A MINIMUM SHALL EXTEND UP BOTH ABUTMENTS TO THE EMERGENCY SPILLWAY ELEVATION.
6. THE MINIMUM BOTTOM WIDTH (A) SHALL BE 5'-8', AND WIDE ENOUGH TO PERMIT OPERATION OF COMPACTION EQUIPMENT.
7. SIDE SLOPES OF THE TRENCH SHALL BE NO STEEPER THAN 1:1.
8. IF BEDROCK IS ENCOUNTERED BELOW THE DAM THE CUT OFF TRENCH CAN BE REDUCED TO 1'x1' (AxH)
9. COMPACTION REQUIREMENTS FOR THE SHELL AND IMPERVIOUS CORE TO BE 95% OF THE MODIFIED PROCTOR PER ASTM D1557. ALL FILL TO BE PLACED IN LIFTS NOT EXCEEDING 12".
10. SIDE SLOPE OF DETENTION POND EMBANKMENT TO BE 2:1 MAXIMUM. IF SIDE SLOPES ARE STEEPER THAN 3:1, SLOPE PROTECTION MUST BE UTILIZED ON POND EMBANKMENT. THIS INCLUDES, BUT NOT LIMITED TO, RIPRAP AND EROSION CONTROL MATS.
11. THE IMPERVIOUS CORE SHALL BE KEPT FREE FROM STANDING WATER DURING THE BACKFILL OPERATION.
12. ALL EMBANKMENTS TO BE DESIGNED BY A GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION. ALL EMBANKMENT INSTALLATIONS TO BE SUPERVISED BY A GEOTECHNICAL ENGINEER.

LOCATION	TOP OF POND ELEV.	WEIR INVERT
SF–B	503.00	499.50
QP–B	503.00	499.00



Concrete Outlet Weir Cross Section
NOT TO SCALE

NOTE:
AS AN ALTERNATIVE, GRAVEL CAN BE USED INSTEAD OF ADVANCED TURF. IF GRAVEL IS USED, PLACE 6" OF COMPACTED CRUSHED BANK RUN GRAVEL BORROW OVER 8" OF COMPACTED GRAVEL BORROW.



Pond Access Path (or Approved Equal)
NOT TO SCALE

DESCRIPTION	WQ–B	QP–B
TOP OF POND ELEVATION	503.00	503.00
100 YEAR STORM ELEVATION	500.35	500.33
10 YEAR STORM ELEVATION	499.86	499.64
1 YEAR STORM ELEVATION	499.64	498.33
WQ STORM ELEVATION	499.10	–
BOTTOM OF POND ELEVATION	497.00	498.00
TOP SOIL DEPTH	6"	–
SAND DEPTH	18"	–
BOTTOM OF SAND ELEVATION	495.00	–
SEASONAL HIGH GWT ELEVATION	488.50	493.00
SOIL EVALUATION	TH–109	TH–17

NOTE:
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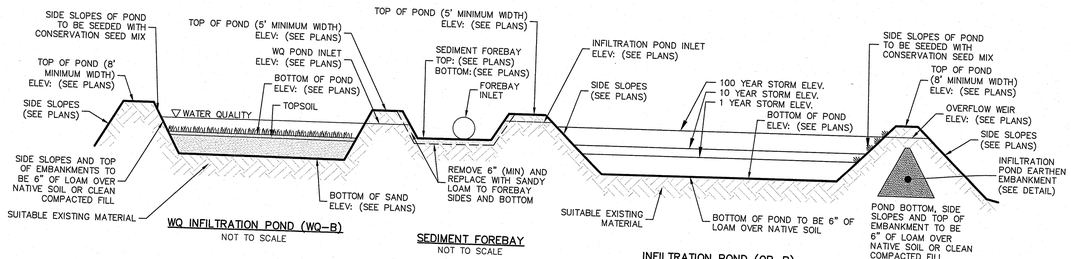

WQ Infiltration Pond BMP System
NOT TO SCALE

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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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5	9-24-2018	RIDEM Response to Comments	J.A.C.
4	8-24-2018	RIDEM Response to Comments	J.A.C.
3	6-5-2017	RIDEM Master Plan Response to Comments	J.A.C.
2	8-31-2015	RIDEM Response to Comments	J.A.C.
1	8-21-2015	90% Submission Response to Comments	J.A.C.
0	8-10-2015	RIDEM 90%DD Submissions	J.A.D.

Design By: B.D.C.
Drawn By: J.A.D.

Pond Complex B Details

Glacier Ridge

Assessor's Plat 14 Lots 10, 11, 12, & 18-20
Glocester, Rhode Island 02814

Applicant
Adler Brothers Construction Co.
604 Putnam Pike, Greenville, Rhode Island 02828

DiPrete Engineering Job No: 2139.001

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SHEET 29 OF 33

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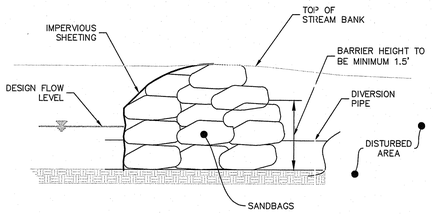
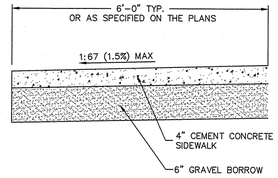


Temporary Sandbag Diversion

NOT TO SCALE

NOTES:

1. ALL SIDEWALKS TO BE CONCRETE.
2. CONCRETE SIDEWALKS SHALL BE IN ACCORDANCE WITH TOWN OF GLOCESTER, RHODE ISLAND LAND DEVELOPMENT AND SUBDIVISION REGULATIONS.

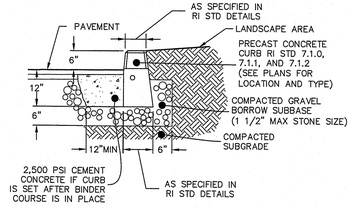


Cement Concrete Sidewalk

NOT TO SCALE

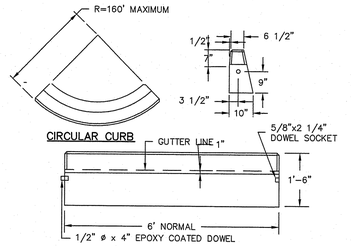
NOTE:

1. PRECAST CONCRETE CURBING TO BE INSTALLED AT SPECIFIED ELEVATIONS ON PLANS PRIOR TO POURING OF CEMENT CONCRETE.
2. ALL LOCATIONS SPECIFIED IN PLAN SET AS PRECAST CURBING TO HAVE A MINIMUM WIDTH OF 12" CEMENT CONCRETE POURED IN FRONT OF THE PRECAST CURBING UNDER ALL PAVED AREAS.
3. CEMENT CONCRETE TO BE 2,500 PSI.



Concrete Curb Lock for Precast Curbing

NOT TO SCALE

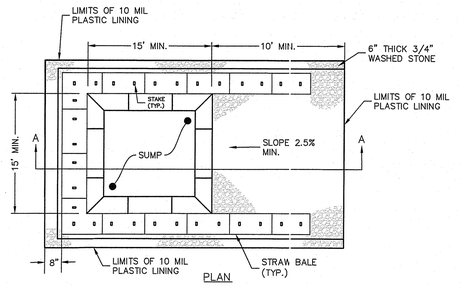


NOTES:

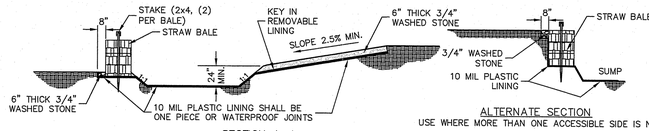
1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
2. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR FILLER PIECES TO BE 3'-0".
3. EXPOSED SURFACES TO HAVE A SPONGE FLOAT FINISH.
4. CIRCULAR CURB IS REQUIRED ON CURVES WITH RADII OF 160'-0" OR LESS. STRAIGHT CURB TO BE USED ON CURVES OF MORE THAN 160'-0" RADIUS.

Precast Concrete Curb

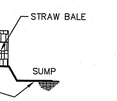
NOT TO SCALE



PLAN



SECTION A–A



ALTERNATE SECTION

USE WHERE MORE THAN ONE ACCESSIBLE SIDE IS NEEDED

WASHOUT SIGN

NOTES:

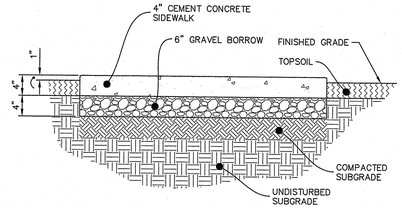
1. PIT IS SPECIFICALLY DESIGNATED, DIKED AND IMPERVIOUS CONTAINMENT TO PREVENT CONTACT BETWEEN CONCRETE WASH AND STORMWATER.
2. WASH WATER SHALL NOT BE ALLOWED TO FLOW TO SURFACE WATER.
3. FACILITY MUST HOLD SUFFICIENT VOLUME TO CONTAIN CONCRETE WASTE WITH A MINIMUM FREEBOARD OF 12."
4. FACILITY SHALL NOT BE FILLED BEYOND 95% CAPACITY UNLESS A NEW FACILITY IS CONSTRUCTED.
5. SAW CUT PORTLAND CEMENT CONCRETE, RESIDUE FROM SAWCUT & GRINDING TO BE DISPOSED OF IN THE PIT.
6. CONCRETE WASHOUTS SHALL BE LOCATED A MINIMUM OF 100' FROM DRAINAGE WAYS, INLETS, & SURFACE WATERS.
7. MANUFACTURED CONCRETE WASHOUT DEVICES MAY BE USED IF REMOVED FROM THE SITE WHEN 95% FULL CAPACITY.

CONCRETE WASHOUT AREA

(NOT TO SCALE)

NOTES:

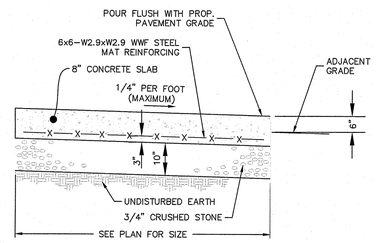
1. SURFACE TEXTURE SHALL BE A LIGHT BROOMING, TRANSVERSE TO THE LENGTH OF THE WALK. CARE SHALL BE TAKEN TO ASSURE A UNIFORM GRADE, FREE OF SAGS AND SHORT GRADE CHANGES.
2. CONTRACTION JOINTS SHALL BE SPACED EQUAL TO THE WIDTH BUT SHALL NOT EXCEED 6' WITHOUT REINFORCING.
3. EXPANSION JOINTS SHALL BE SPACED AT A MINIMUM OF 25' OR WHEN ABUTTING A FIXED OBJECT.
4. SUBGRADE MATERIAL IS TO BE FREE OF ALL ORGANICS.
5. MATERIALS USED SHALL BE IN ACCORDANCE WITH THE R.I. STANDARD SPECIFICATION.
6. SEE GRADING SHEETS FOR SIDEWALK GRADING.



Typical Sidewalk/Slab Construction

(As Specified On Plans)

NOT TO SCALE

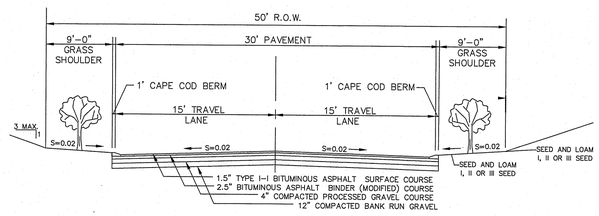


NOTES:

1. TO MATCH NATIONAL GRID SPECIFICATIONS.

Concrete Dumpster Pad

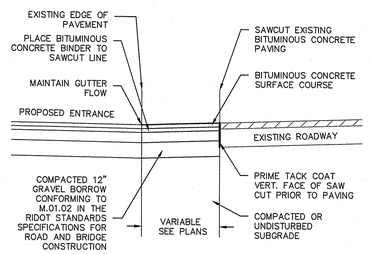
NOT TO SCALE



Typical Roadway Cross Section

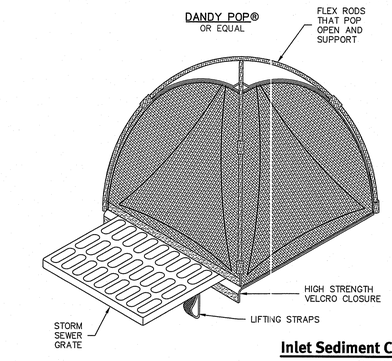
NOT TO SCALE

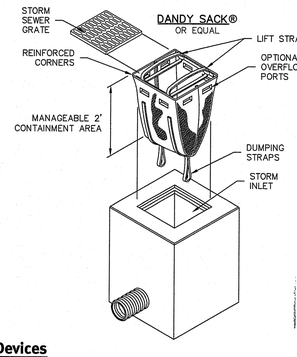
NOTE:
MINIMUM COMPACTION FOR GRAVEL SUB–BASE OR SUBGRADE: 95% MODIFIED PROCTOR.



Sawcut & Match

NOT TO SCALE





Inlet Sediment Control Devices

NOT TO SCALE

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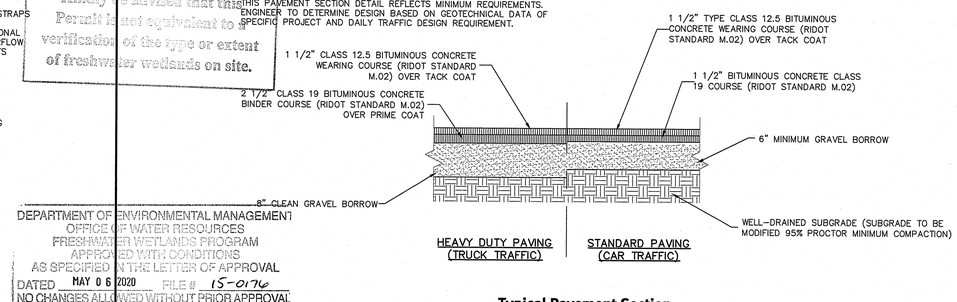
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

NOTE:
THIS PAVEMENT SECTION DETAIL REFLECTS MINIMUM REQUIREMENTS. ENGINEER TO DETERMINE DESIGN BASED ON GEOTECHNICAL DATA OF SPECIFIC PROJECT AND DAILY TRAFFIC DESIGN REQUIREMENT.



Typical Pavement Section

NOT TO SCALE

DiPrete Engineering
Two Stafford Court Cranston, RI 02920
tel 401-943-1000 fax 401-464-6006 www.diprete-eng.com
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BRANDON D. CARR
9801
10/15/2018
REGISTERED PROFESSIONAL ENGINEER
CIVIL

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5	5-31-2018	RIDOT Response to Comments	D.K.N.
4	4-11-2018	RIDOT Response to Comments	D.K.N.
3	6-5-2017	RIDOT Master Plan Response to Comments	D.K.N.
2	11-30-2015	RIDOT Master Plan Submittals	B.F.L.
1	8-31-2015	Site Suitability Submission	A.D.
0	8-10-2015	RIDOT/DEM Submissions	By:

Drawn By: J.A.D. Design By: B.D.C.

Detail Sheet - 1

Glacier Ridge

Assessor's Plat 14, Lots 10, 11, & 18-20
Glocester, Rhode Island 02814

Applicant
Adler Brothers Construction Co.
604 Putnam Pike, Greenville, Rhode Island 02828

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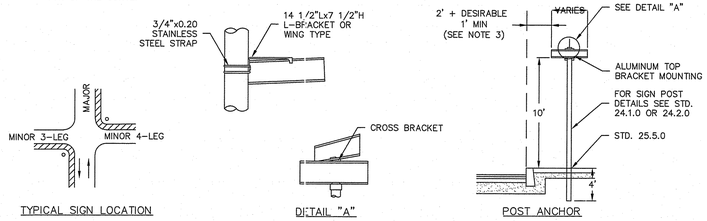
NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION T.15 OF THE R.I. STANDARD SPECIFICATIONS.
2. EACH SIGN SHALL HAVE LEGEND ON BOTH SIDES.
3. POSTS SHALL BE INSTALLED AS CLOSE AS POSSIBLE TO THE BACK OF SIDEWALK, UNLESS SPACE DOES NOT PERMIT.
4. IF SIGNS ARE ON THEIR OWN SUPPORT POST, THE POST SHALL BE LOCATED NEARER TO THE MAJOR STREET AND WITHIN 5' OF THE P.T. OF THE CURVE.

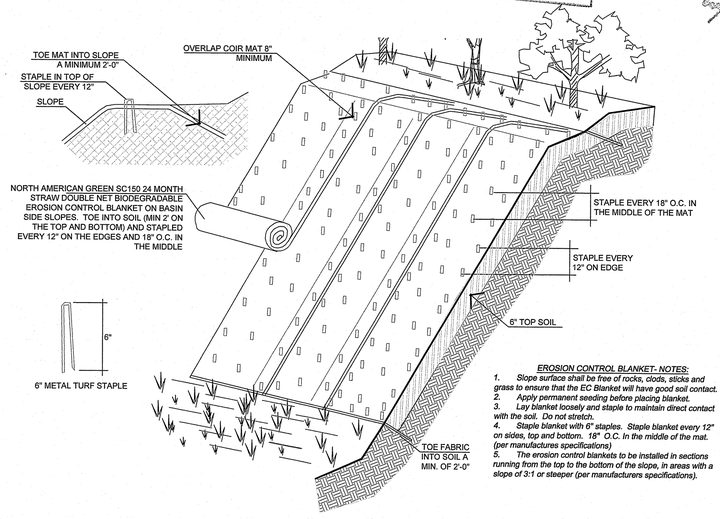


TYPICAL SIGN LOCATION | DETAIL "A" | POST ANCHOR

STREET SIGN MOUNTING DETAIL
NOT TO SCALE

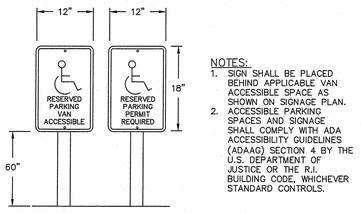
Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 06 2020 FILE # 15-0176
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



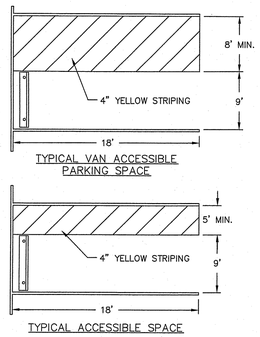
EROSION CONTROL BLANKET- NOTES:
1. *Slope surface shall be free of rocks, clods, sticks and grass to ensure that the EC Blanket will have good soil contact.*
2. *Apply permanent seeding before placing blanket.*
3. *Lay blanket loosely and staple to maintain direct contact with the soil. Do not stretch.*
4. *Staple blanket with 6" staples. Staple blanket every 12" on sides, top and bottom. 18" O.C. In the middle of the mat. (per manufactures specifications)*
5. *The erosion control blankets to be installed in sections running from the top to the bottom of the slope, in areas with a slope of 3:1 or steeper (per manufacturers specifications).*

Erosion Control Blanket Detail
NOT TO SCALE

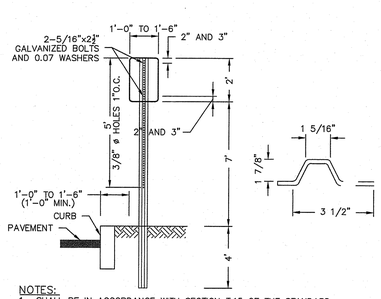


NOTES:
1. SIGN SHALL BE PLACED BEHIND APPLICABLE VAN ACCESSIBLE SPACE AS SHOWN ON SIGNAGE PLAN.
2. ACCESSIBLE PARKING SPACES AND SIGNAGE SHALL COMPLY WITH ADA ACCESSIBILITY GUIDELINES (ADAAG) SECTION 4 BY THE U.S. DEPARTMENT OF JUSTICE OR THE R.I. BUILDING CODE, WHICHEVER STANDARD CONTROLS.

TYPICAL ACCESSIBLE PARKING SIGN
NOT TO SCALE



TYPICAL ACCESSIBLE PARKING SPACES
NOT TO SCALE



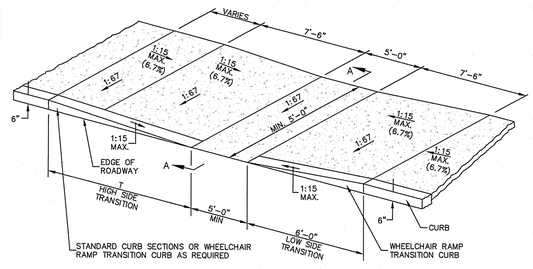
NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION T.15 OF THE STANDARD SPECIFICATIONS.
2. PARKING SIGNS SHALL BE SET AT AN ANGLE OF NOT LESS THAN 30° NOR MORE THAN 45° WITH A LINE PARALLEL TO FLOW OF TRAFFIC, 1'-6" (1' MIN.) FROM EDGE OF CURB FACE.

SIGN MOUNTING DETAIL
NOT TO SCALE

SIGN NUMBER		R1-1			
LEGEND		STOP			
COLOR	BACKGROUND	RED			
	COPY	WHITE			
SIGN	WIDTH	24"	30"	36"	48"
DIMENSION	HEIGHT	24"	30"	36"	48"

NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION T.15 OF THE R.I. STANDARD SPECIFICATIONS.
2. REGULATORY SIGNS SHALL BE MOUNTED IN ACCORDANCE WITH STD. 24.1.0, 24.2.0 OR 24.6.0.
3. THICKNESS OF ALUMINUM SIGN PLATES:
   LESS THAN 10 SQ. FT.–0.081 IN;
   10 SQ. FT. TO 36 SQ. FT.–0.102 IN;
   GREATER THAN 36 SQ. FT.–0.125 IN;
   FOR ADDITIONAL SIGNS SEE THE MUTCD.
4. SHALL MEET OR EXCEED GUIDELINES OF RIDOT STANDARD DETAIL 27.1.0.

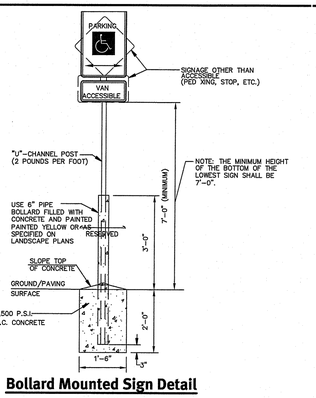
REGULATORY SIGNS
NOT TO SCALE



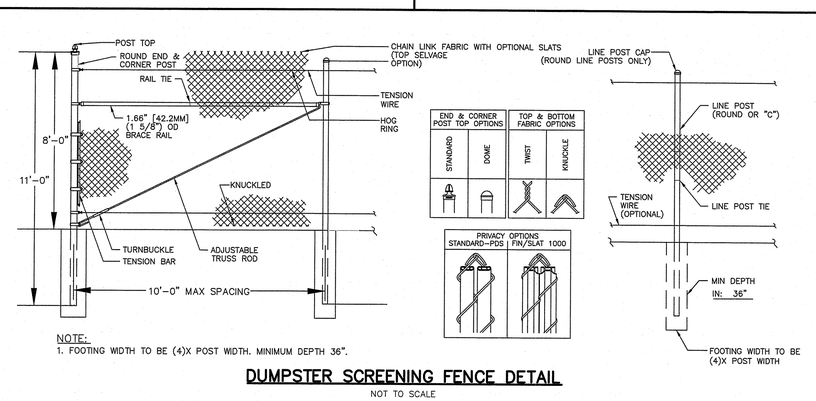
ISOMETRIC VIEW

NOTE:
USE TWO COATS OF WHITE EPOXY RESIN PAINT, (TYP).

Handicap Logo Paving Marker Detail
NOT TO SCALE



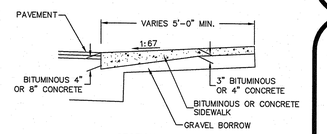
Bollard Mounted Sign Detail
NOT TO SCALE



NOTE:
1. FOOTING WIDTH TO BE (4)X POST WIDTH. MINIMUM DEPTH 36".

DUMPSTER SCREENING FENCE DETAIL
NOT TO SCALE

ROADWAY PROFILE GRADE	T (FT.)
0.00	7.5
0.01	9.0
0.02	11.0
0.03	13.5
0.04	19.0
0.05	30.0



SECTION A–A

NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 904 OF THE R.I. STANDARD SPECIFICATIONS.
2. WHEN ANY OBSTRUCTION LOCATED IN THE SIDEWALK FALLS WITHIN A CROSSWALK AREA, THE WHEELCHAIR RAMP WILL BE PLACED SUCH THAT THE OBSTRUCTION FALLS OUTSIDE OF THE RAMP.
3. AT NO TIME IS ANY PART OF THE WHEELCHAIR RAMP TO BE LOCATED OUTSIDE OF THE CROSSWALK, AND IT IS TO BE CENTERED WHENEVER POSSIBLE.
4. DRAINAGE FACILITIES ARE TO BE LOCATED UP–GRADE OF ALL WHEELCHAIR RAMPS.
5. LOCATION OF WHEELCHAIR RAMPS IS AS SHOWN ON CONTRACT DRAWINGS.
6. IN NO INSTANCE SHALL THE SIDEWALK CROSS SLOPE EXCEED 1:50 EXCEPT WITHIN THE RAMP AREA.
7. AN UNOBSTRUCTED PATH OF TRAVEL WITH A MINIMUM WIDTH OF 3'–0" SHALL BE MAINTAINED.
8. THE WHEELCHAIR RAMP SLOPE AND SIDE SLOPES (TRANSITIONS), MUST NOT EXCEED 1:12. HOWEVER, THESE SLOPES MAY BE FLATTER THAN 1:12 WHEN WARRANTED BY SURROUNDING CONDITIONS.
9. IN NO CASE, WHERE A STOP LINE IS WARRANTED, SHALL A RAMP BE PLACED BEHIND THE STOP LINE.
10. THE ENTRANCE OF THE WHEELCHAIR RAMP SHALL BE FLUSH WITH THE ROADWAY.
11. THE WHEELCHAIR RAMP SHALL BE CENTERED RADIALLY, OPPOSITE THE RADIUS POINT WHEN POSSIBLE.
12. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR FILLER PIECES TO BE 3'–0" (GREATER LENGTHS PREFERRED).
13. ALL REQUIRED CUTTING OF CURB PIECES TO BE PAID FOR UNDER COST OF CURB.
14. MEETS OR EXCEEDS GUIDELINES OF RIDOT STANDARD DETAIL 43.3.0.

TYPICAL ADA RAMP
NOT TO SCALE

This regulatory submission set shall not be used for construction purposes unless stamped 'Issued for Construction' and signed by a DiPrete Engineering representative.

The contractor is responsible for all of the means, methods, techniques, sequences and procedures and OSHA conformance in the implementation of this plan and design.

No.	Date	Description	By:
6	10-15-2018	RIDEM Response to Comments	J.A.C.
5	5-4-2018	RIDEM Response to Comments	D.R.N.
4	4-13-2018	RIDEM Response to Comments	D.R.N.
3	2-13-2018	RIDEM Master Plan Revisions to Comments	M.A.C.
2	9-3-2015	RIDEM Response to Comments	M.A.C.
1	8-25-2015	RIDEM/RIDOH Submissions	J.A.D.
0	8-10-2015	RIDEM/RIDOH Submissions	J.A.D.

Design By: B.D.C.
Drawn By: J.A.D.

DiPrete Engineering
Two Stafford Court Cranston, RI 02920
tel 401-943-1000 fax 401-464-6006 www.diprete-eng.com
Boston • Providence • Newport

BRANDON D. CARR
9501
10/15/2018
REGISTERED PROFESSIONAL ENGINEER
CIVIL

Detail Sheet - 2
Glacier Ridge
Assessor's Plat 14 Lots 10, 11, 12, & 18-20
Glocester, Rhode Island 02814
Applicant
Adler Brothers Construction Co.
604 Putnam Pike, Greenville, Rhode Island 02828

SHEET 31 OF 33

DE Job No: 2139-001 Copyright 2018 by DiPrete Engineering Associates, Inc.

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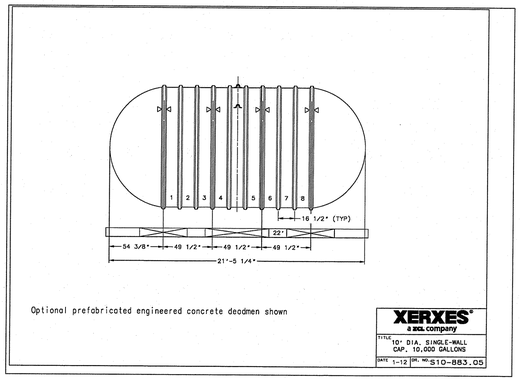
Water Line Wetland Crossing Notes:

1. STREAM CROSSING IS TO BE COMPLETED DURING DRY SEASON WHEN CHANNEL HAS MINIMAL OR NO FLOW AND AT A TIME WHEN RAIN IS NOT FORECASTED FOR 3 DAYS. CONSTRUCTION IS TO BE COORDINATED SO THAT THE STREAM CROSSING CAN BE COMPLETED WITHIN ONE WORKDAY.
2. WATER MAIN TO BE INSTALLED TO WITHIN 10' OF CROSSING PRIOR TO BEGINNING WORK WITHIN STREAM IN ORDER TO MINIMIZE TIME ACTIVELY WORKING WITHIN THE STREAM CHANNEL AND ITS VICINITY.
3. IF IT IS NECESSARY TO DIVERT OR STOP STREAM FLOW, A SANDBAG DIVERSION BERM IS TO BE PLACED SOUTH OF THE PROPOSED WATER CROSSING. SANDBAGS SHOULD BE PLACED IN A PYRAMID CONFIGURATION AT A 3:1 RATIO OF BASE WIDTH TO HEIGHT. STACK SANDBAGS IN ALTERNATING ROWS, ALTERNATING JOINTS BETWEEN LAYERS.
4. BEGIN EXCAVATION IN STREAMBED FOR WATER MAIN INSTALLATION. EXCAVATE TRENCH, PLACE BEDDING MATERIALS AND INSTALL WATER MAIN. TEST WATER MAIN WITHIN CROSSING.
5. BACKFILL AND COMPACT TRENCH TO ORIGINAL STREAMBED ELEVATION.
6. RESTORE/REVEGATATE WITH NATIVE PLANTINGS. SEE WETLAND & PERIMETER WETLAND RESTORATION NOTE.

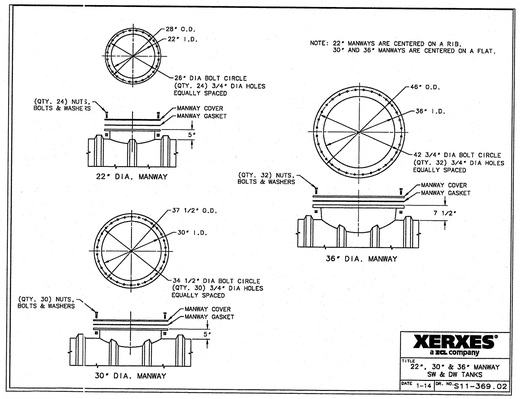
Wetland & Perimeter Wetland Restoration Note:

ANY PROPOSED DISTURBANCES OR PREVIOUSLY DISTURBED AREAS WITHIN THE WETLAND, 50' PERIMETER WETLAND AND/OR 100' RIVERBANK WETLAND TO BE REVEGETATED. PLANTINGS TO BE SELECTED FROM APPENDIX B: "VEGETATION GUIDELINES AND PLANTING LIST" FROM THE RI STORMWATER DESIGN AND INSTALLATION STANDARDS MANUAL AND/OR THE RHODE ISLAND COASTAL PLANT GUIDE (TYP)



Optional prefabricated engineered concrete deadmen shown

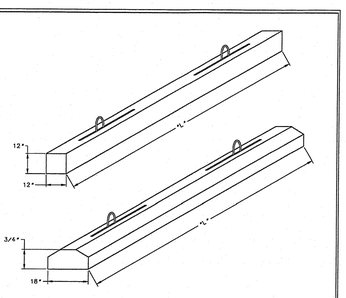
XERXES a DCL company
TITLE: 10' DIA. SINGLE-WALL CAP, 10,000 GALLONS
DATE 1-12 DR. NO. S10-883.05



XERXES a DCL company
TITLE: 22", 30" & 36" MANWAY SM & DW TANKS
DATE 1-14 DR. NO. S11-369.02

XERXES DEADMAN

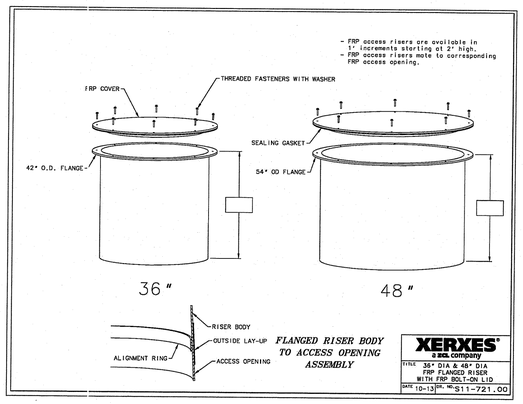
TANK SIZE GALLONS	QTY	"L"	APPROX. WEIGHT EACH
4'-600	2	12'	1,800 LBS
4'-1,000	2	12'	1,800 LBS
4'-1,500	2	16'	2,400 LBS
6'-1,500	2	12'	1,800 LBS
6'-2,000	2	12'	1,800 LBS
6'-3,000	2	16'	2,400 LBS
6'-4,000	2	18'	2,700 LBS
6'-5,000	4	12'	1,800 LBS
6'-6,000	4	16'	2,400 LBS
6'-8,000	4	18'	2,700 LBS
8'-2,000	2	12'	1,800 LBS
8'-3,000	2	12'	1,800 LBS
8'-4,000	2	12'	1,800 LBS
8'-5,000	2	16'	2,400 LBS
8'-6,000	2	18'	2,700 LBS
8'-7,000	4	12'	1,800 LBS
8'-8,000	4	12'	1,800 LBS
8'-9,000	2	12'	1,800 LBS
	2	16'	2,400 LBS
8'-10,000	4	16'	2,400 LBS
8'-11,000	4	16'	2,700 LBS
8'-12,000	4	18'	2,700 LBS
8'-13,000	4	12'	1,800 LBS
	2	16'	2,400 LBS
8'-14,000	2	12'	1,800 LBS
	4	16'	2,400 LBS
8'-15,000	6	16'	2,400 LBS
10'-10,000	2	22'	3,000 LBS
10'-11,000	2	22'	3,000 LBS
10'-12,000	2	22'	3,000 LBS
10'-13,000	4	14'	1,900 LBS
10'-14,000	4	14'	1,900 LBS
10'-15,000	4	14'	1,900 LBS
10'-20,000	4	18'	2,400 LBS
10'-22,000	4	22'	3,000 LBS
10'-25,000	4	14'	1,900 LBS
	4	18'	2,400 LBS
10'-30,000	6	18'	2,400 LBS
10'-35,000	6	18'	2,400 LBS
	4	22'	3,000 LBS
10'-40,000	8	18'	2,400 LBS



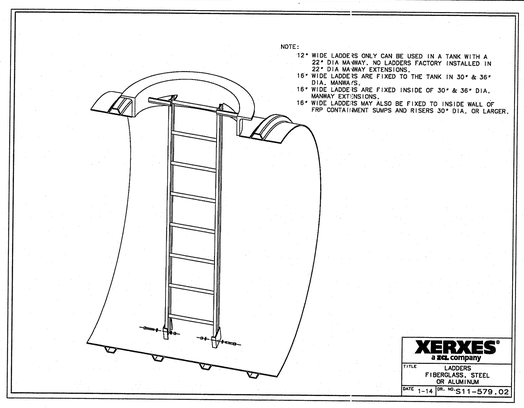
XERXES PRECAST DEADMEN

- XERXES DEADMEN ARE ENGINEERED AND DESIGNED TO BE USED WITH XERXES TANKS.
- IN MULTIPLE TANK INSTALLATIONS, EACH TANK REQUIRES ITS OWN SET OF DEADMEN.
- FOR CAST IN PLACE OR DEADMAN CONSTRUCTED OFF SITE, REFER TO XERXES INSTALLATION MANUAL AND OPERATING GUIDELINES FOR PROPER SIZING AND ANCHOR POINT SPECIFICATIONS.

XERXES a DCL company
TITLE: XERXES PRECAST DEADMEN
DATE 1-14 DR. NO. S11-376.02



XERXES a DCL company
TITLE: 36" DIA & 48" DIA FRP FLANGED RISER WITH FRP BOLT-ON LID
DATE 10-13 DR. NO. S11-721.00



XERXES a DCL company
TITLE: LADDERS FIBERGLASS, STEEL OR ALUMINUM
DATE 1-14 DR. NO. S11-579.02

Water Cistern (Or Approved Equal) Details (TYP)

NOT TO SCALE

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 06 2020 FILE # 15-0176
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
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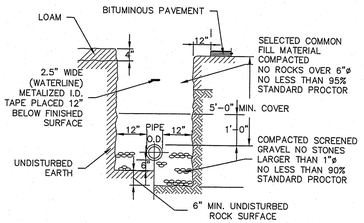
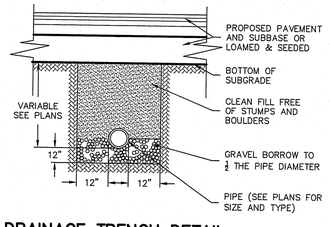


WATER TRENCH INSTALLATION IN ROCK AND SOIL

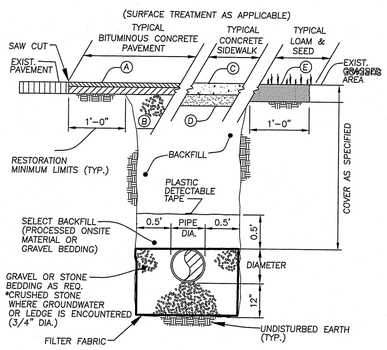
NOT TO SCALE



DRAINAGE TRENCH DETAIL

NOT TO SCALE

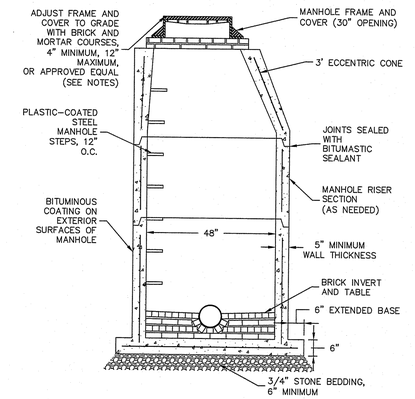
(A) 2" BITUMINOUS CONCRETE TYPE I-1 WEARING SURFACE, ON 3" BITUMINOUS CONCRETE MODIFIED BINDER COURSE
(B) 12" COMPACTED GRAVEL BASE
(C) PORTLAND CEMENT CONCRETE SIDEWALK
(D) 4" COMPACTED SAND BASE.
(E) 6" LOAM AND SEED



Sewer Utility Trench

NOT TO SCALE

NOTES:
1. MANHOLE SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM-C478.
2. INVERT AND TABLE SHALL CONSIST ENTIRELY OF BRICK AND MORTAR. NO SAND FILLER SHALL BE ALLOWED.
3. MANHOLES SHALL BE VACUUM TESTED PRIOR TO ACCEPTANCE, IN ACCORDANCE WITH THE SEWER AUTHORITY SANITARY RULES AND REGULATIONS. UNDER NO CIRCUMSTANCES WILL EXFILTRATION TESTING BE ACCEPTED.
4. BOLTED AND GASKETED COVERS SHALL BE USED ON MANHOLES IN OFF-ROAD AREAS.
5. TAPPING OF MANHOLES MUST BE AUTHORIZED AND INSPECTED BY THE SEWER AUTHORITY. THE ONLY APPROVED METHOD FOR TAPPING MANHOLES SHALL BE BY CORE-DRILLING THE MANHOLE AND INSTALLING A "KOR-N-SEAL" BOOT.
6. PRECAST CONCRETE GRADE RINGS, HDPE GRADE RINGS, OR OTHER RIM ADJUSTMENT PRODUCTS MAY BE USED IN LIEU OF BRICK AND MORTAR WITH THE PERMISSION OF THE SEWER AUTHORITY.



Sewer Manhole

NOT TO SCALE

DiPrete Engineering
Two Stafford Court Cranston, RI 02920
tel.401-943-1000 fax.401-464-6006 www.diprete-eng.com
Boston • Providence • Newport

BRANDON D. CARR
9801
10/15/2018
REGISTERED PROFESSIONAL ENGINEER
CIVIL

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The contractor is responsible for all of the means, methods, safety precautions, requirements, and OSHA conformance in the implementation of this plan and design.

No.	Date	Description	By:
6	10-15-2018	RIDEM Response to Comments	J.A.C.
5	5-4-2018	RIDEM Response to Comments	D.E.N.
4	3-23-2018	RIDEM Response to Comments	D.E.N.
3	6-1-2017	RIDEM/Master Plan Responses to Comments	D.E.N.
2	8-3-2015	RIDEM Response to Comments	M.S.C.
1	5-12-2015	RIDEM/ZBA/POD Submissions	J.A.D.
0	8-12-2015	RIDEM/ZBA/POD Submissions	J.A.D.

Drawn By: J.A.D. Design By: B.D.C.

Detail Sheet - 3

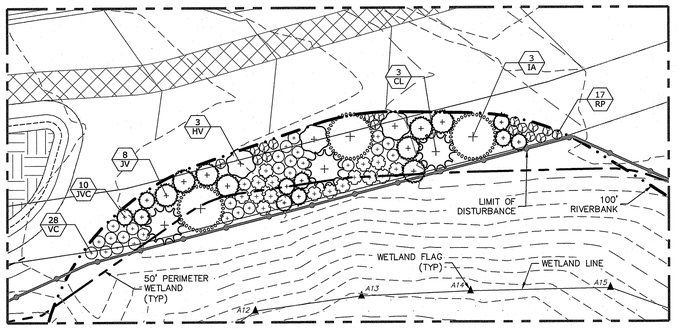
Glacier Ridge
Assessor's Plat 14 Lots 10, 11, 12, & 18-20
Glocester, Rhode Island 02814

Applicant
Adler Brothers Construction Co.
604 Putnam Pike, Greenville, Rhode Island 02828

DE Job No: 2139-001 Copyright 2018 by DiPrete Engineering Associates, Inc.

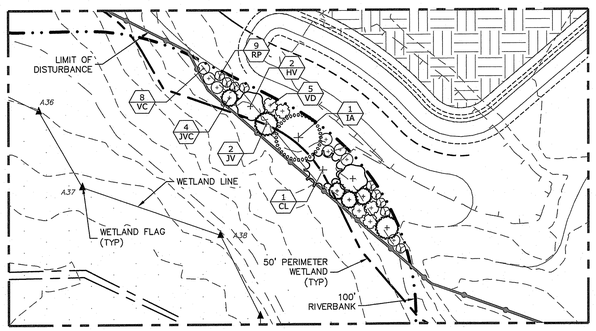
SHEET 32 OF 33

z:\domain\projects\2139-001 putnam pike\autocad drawing\2139-001-dtst.dwg Plotted: 10/15/2018



Wetland Resoration Planting A

SCALE: 1" = 30'

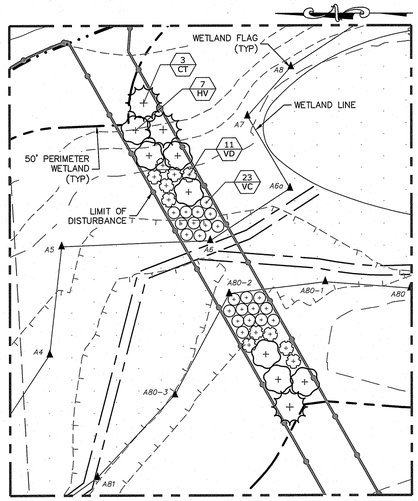


Wetland Resoration Planting B

SCALE: 1" = 30'

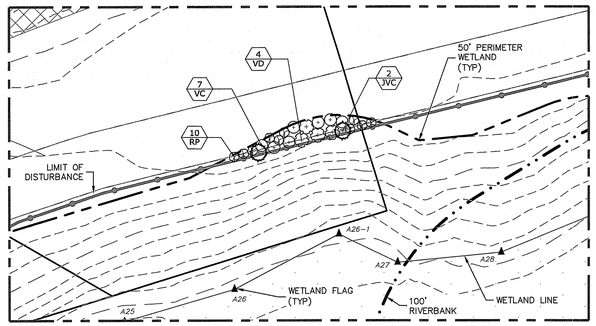
Wetland & Perimeter Wetland Restoration Note:

ANY PROPOSED DISTURBANCES OR PREVIOUSLY DISTURBED AREAS WITHIN THE WETLAND, 50' PERIMETER WETLAND AND/OR 100' RIVERBANK WETLAND TO BE REVEGETATED. PLANTINGS TO BE SELECTED FROM APPENDIX B: "VEGETATION GUIDELINES AND PLANTING LIST" FROM THE RI STORMWATER DESIGN AND INSTALLATION STANDARDS MANUAL AND/OR THE RHODE ISLAND COASTAL PLANT GUIDE. (TYP)



Wetland Crossing Plan

SCALE: 1" = 30'



Wetland Resoration Planting C

SCALE: 1" = 30'

PLANT SCHEDULE						
TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	
	CT	3	Chamaecyparis thyoides	Atlantic White Cedar	5/6` B&B @ 10` OC	
	HV	12	Hamamelis virginiana	Common Witch Hazel	3/4` B&B	
	IA	4	Ilex opaca	American Holly	7/8` B&B	
	JV	10	Juniperus virginiana	Eastern Red Cedar	5/6` B&B @ 10` OC	
	JVC	16	Juniperus virginiana `Cupressifolia`	Hillspire Juniper	5/6` B&B @ 8` OC	
	CL	4	x Cupressocyparis leylandii	Leylandi Cypress	5/6` B&B @ 10` OC	
SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	
	RP	36	Rosa palustris	Swamp Rose	2 gal	
	VC	66	Vaccinium corymbosum	Highbush Blueberry	18/24" B&B	
	VD	36	Viburnum dentatum	Viburnum	3/4" B&B	

General Notes:

1. SITE INFORMATION TAKEN FROM PLANS PREPARED BY DIPRETE ENGINEERING.
2. CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS BY NOTIFYING DIG-SAFE (811) AT LEAST 72 HOURS PRIOR TO ANY CONSTRUCTION OR SITE PREPARATION AND ANY/OR ALL LOCAL UTILITY COMPANIES AS REQUIRED.

Planting Notes:

1. ALL PLANT MATERIAL SHALL CONFORM, IN ALL RESPECTS, TO THE GUIDELINES OF "THE AMERICAN STANDARD FOR NURSERY STOCK," LATEST EDITION, PUBLISHED BY THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION, INC. ALL PLANTS SHALL BE NURSERY GROWN AND SHALL HAVE BEEN GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT FOR AT LEAST TWO (2) YEARS.
2. PLANT SUBSTITUTION SELECTION MUST BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
3. ALL PLANTS TO BE PLANTED SO THAT AFTER SETTLEMENT THEY BEAR THE SAME RELATION TO THE SURROUNDING GROUND AS TO THEIR ORIGINAL GRADE BEFORE DIGGING.
4. CREATE SAUCER AROUND INDIVIDUAL PLANTS CAPABLE OF HOLDING WATER. ALL PLANTS TO BE FLOODED WITH CLEAN WATER TWICE WITHIN THE FIRST 24 HOURS OF PLANTING. ADDITIONAL WATERING SHALL BE MADE AS REQUIRED TO KEEP PLANTS FROM WILTING AND DRYING OUT UNTIL FINAL ACCEPTANCE.
5. RECOMMENDED DATES FOR PLANTING ARE MARCH 15 TO JUNE 15 AND SEPTEMBER 15 TO NOVEMBER 15.
6. PLANTING SHALL CONFORM TO THE RHODE ISLAND STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION AND STANDARD DETAILS.

Maintenance & Guarantee Notes:

1. CONTRACTOR TO PROVIDE A ONE (1) YEAR GUARANTEE FOR ALL MATERIALS. CONTRACTOR GUARANTEES THAT PLANTS WILL REMAIN HEALTHY FOR ONE (1) GROWING SEASON. CONTRACTOR TO MAINTAIN ALL PLANTING AND LAWNS UNTIL FINAL PROJECT ACCEPTANCE. GUARANTEE PERIOD TO COMMENCE AT FINAL ACCEPTANCE. ANY REPLACEMENT PLANTS SHALL BE OF THE SAME SIZE AND SPECIES AS SPECIFIED WITH NEW GUARANTEE COMMENCING ON THE DATE OF REPLACEMENT. OWNER SHALL BE RESPONSIBLE FOR PLANT MAINTENANCE AFTER FINAL ACCEPTANCE.
2. CONTRACTOR SHALL SOD OR OVERSEED ANY AREAS NOT COVERED SUBSTANTIALLY WITH GRASS AFTER ONE YEAR FROM PLANTING.
3. ALL LANDSCAPED AREAS SHALL BE KEPT FREE OF WEEDS AND DEBRIS. ALL VEGETATION WITHIN SAID AREAS SHALL BE MAINTAINED FREE OF PHYSICAL DAMAGE CAUSED BY CHEMICALS, INSECTS, DISEASES, LACK OF WATER OR OTHER CAUSES. DAMAGED PLANTS SHALL BE REPLACED WITH THE SAME OR SIMILAR VEGETATION ON AN ANNUAL BASIS.

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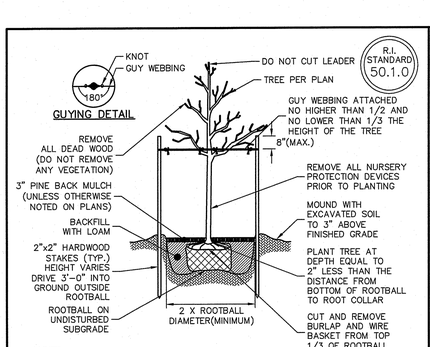
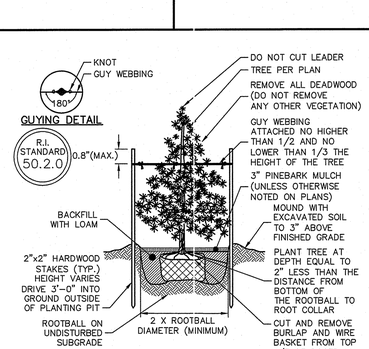
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 06 2020 FILE # 15-0176
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



NOTE:
SHALL BE IN ACCORDANCE WITH SECTION L.06 OF THE R.I. STANDARD SPECIFICATIONS.

Large Tree Staking and Planting Detail (2" Caliper and Greater)

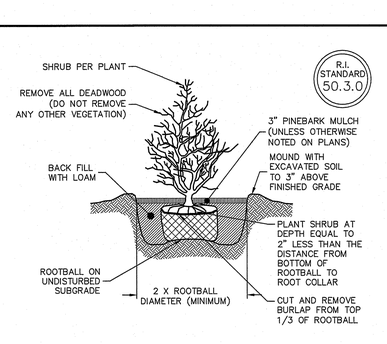
NOT TO SCALE



NOTE:
SHALL BE IN ACCORDANCE WITH SECTION L.06 OF THE R.I. STANDARD SPECIFICATIONS.

Evergreen Tree Planting Detail (4'-0" High and Greater)

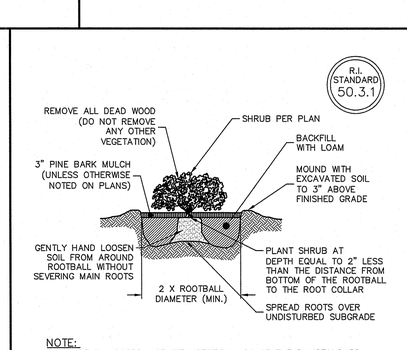
NOT TO SCALE



NOTE:
SHALL BE IN ACCORDANCE WITH SECTION L.06 OF THE R.I. STANDARD SPECIFICATIONS.

Ball and Burlap Shrub Planting Detail

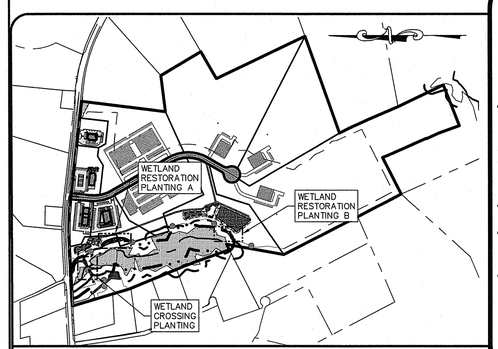
NOT TO SCALE



NOTE:
SHALL BE IN ACCORDANCE WITH SECTION L.06 OF THE R.I. STANDARD SPECIFICATIONS.

Container Grown Shrub Planting Detail

NOT TO SCALE



Index 1"=600'

DiPrete Engineering
Two Stafford Court Cranston, RI 02920
tel 401-943-1000 fax 401-464-6006 www.diprete-eng.com
Boston • Providence • Newport

REGISTERED LANDSCAPE ARCHITECT EDWARD C. AVERY NO. 431 2018

This regulatory submission set shall not be used for construction purposes unless stamped 'Issued for Construction' and signed by a DiPrete Engineering representative.

The contractor is responsible for all of the means, methods, safety precautions and requirements, and OSHA conformance in the implementation of this plan and design.

No.	Date	Description	By:
6	10-15-2018	RIDEM Response to Comments	J.A.C.
5	4-4-2018	RIDEM Response to Comments	D.K.N.
4	4-4-2017	RIDEM/Master Plan Response to Comments	D.K.N.
3	1-4-2016	RIDEM/CRMC Submission	J.A.C.
2	8-31-2015	Site Planning Submission	R.P.C.
1	8-19-2015	RIDEM/RIDOT Submissions	J.A.C.

Drawn By: J.A.D. Design By: B.D.C.

Wetland Planting Plan

Glacier Ridge

Assessor's Plat 14 Lots 10, 11, 12, & 18-20
Gloucester, Rhode Island 02814

Applicant
Adler Brothers Construction Co.
604 Putnam Pike, Greenville, Rhode Island 02828

DE Job No: 2139-001 Copyright 2018 by DiPrete Engineering Associates, Inc.

SHEET 33 OF 33

z:\domain\projects\2139-001 putnam pike\autocad drawing\2139-001-larc-wetlands.dwg Plotted: 10/19/2018

PHYSICAL ALTERATION PERMIT APPLICATION

FOR

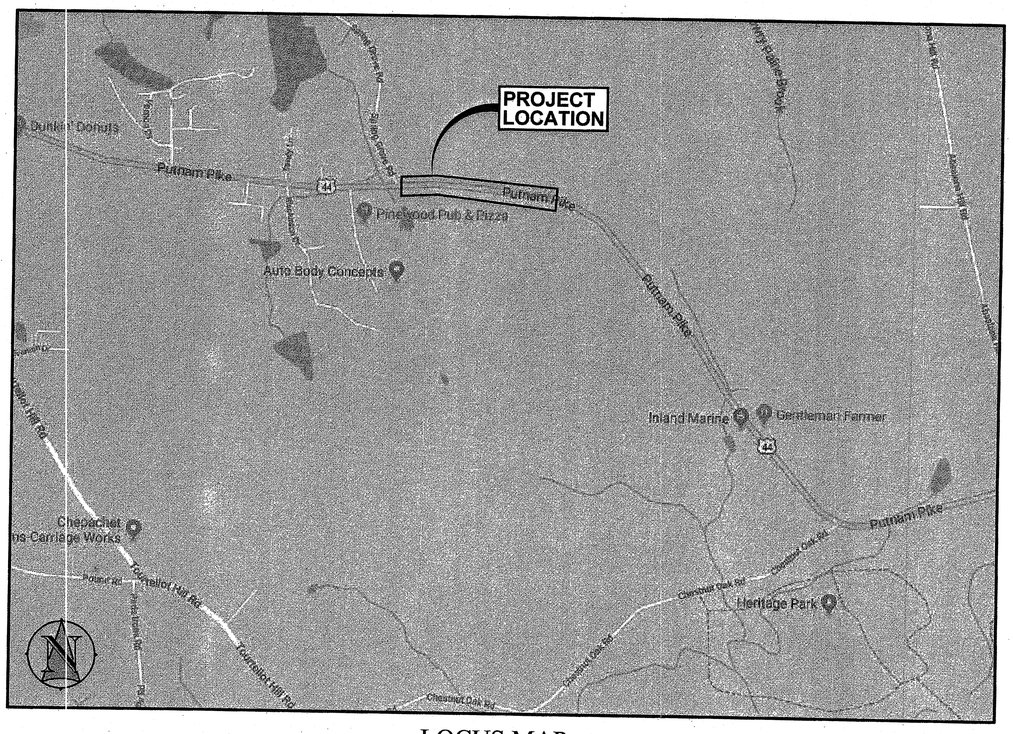
Glacier Ridge

Assessor's Plat 14 Lots 10, 11, 12 & 18-20

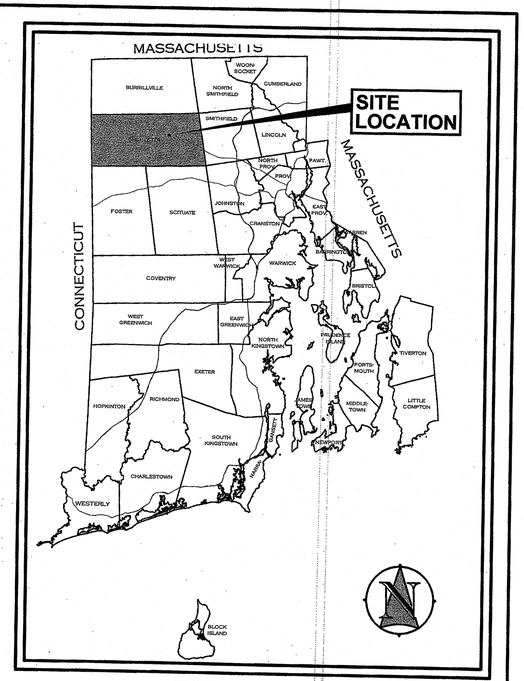
Glocester, RI

INDEX OF DRAWINGS

SHEET NO.	*TITLE*
1	COVER SHEET
2	LEGEND, NOTES & DETAILS
3	KEY PLAN & TYPICAL SECTION
4, 5	CONSTRUCTION PLANS 1 & 2
6, 7	SIGNING AND STRIPING PLANS 1 & 2
8, 9	LAYOUT PLANS 1 & 2



LOCUS MAP
Scale: 1"=800'



VICINITY MAP
Scale: None

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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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WILLIAM P. McGRATH
No. 9402
REGISTERED PROFESSIONAL ENGINEER
CIVIL
4/15/18

Environmental Protection Agency
DEC 19 2019
Office of Water Quality

Prepared By:

BETA
www.BETA-Inc.com

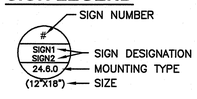
GENERAL NOTES:

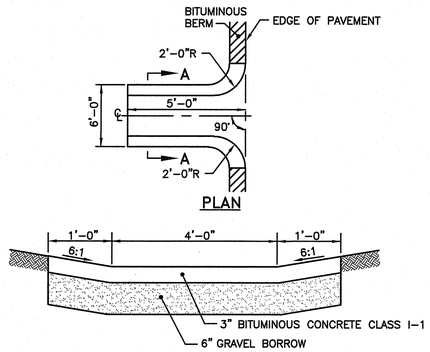
1. THE LOCATION OF EXISTING UTILITIES ARE APPROXIMATE AND HAVE BEEN PLOTTED FROM BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING DRAINAGE AND UTILITIES, BOTH UNDERGROUND AND OVERHEAD, BEFORE ANY WORK BEGINS IN ACCORDANCE WITH "DIG SAFE PROGRAM LAW" ENACTED BY THE R.I. LEGISLATURE AND BY CONTACTING THE INDIVIDUAL UTILITY COMPANIES. EXCAVATION SHALL BE IN ACCORDANCE WITH ALL STATUTES, ORDINANCES, RULES AND REGULATIONS OF THE TOWN OF GLOCESTER, STATE OR FEDERAL AGENCIES THAT MAY BE APPLICABLE. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR.
2. THE BASE PLAN INFORMATION ON THE PLANS WAS OBTAINED FROM DIPRETE ENGINEERING, INC. THE INFORMATION PROVIDED IS NOT GUARANTEED FOR COMPLETENESS OR ACCURACY BY BETA GROUP, INC. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND MAKE ADJUSTMENTS AS DIRECTED BY THE ENGINEER TO MATCH ACTUAL FIELD CONDITIONS. REFER TO STATE HIGHWAY PLAN No. 268 FOR BASELINE LAYOUT INFORMATION.
3. ANY DAMAGE TO THE EXISTING TOWN OR PRIVATE PROPERTY CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
4. IN ADDITION TO THOSE AREAS SPECIFICALLY DESIGNATED ON THE PLANS, ALL DISTURBED AREAS INCLUDING THE CONTRACTOR'S STOCKPILE AREAS WITHIN THE RIGHT-OF-WAY SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
5. UNDER NO CIRCUMSTANCES WILL THE CONTRACTOR BE ALLOWED TO STOCKPILE REMOVED PAVEMENT MATERIALS WITHIN THE PROJECT LIMITS UNLESS APPROVED BY THE TOWN.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING, AND LEGALLY DISPOSING (R&D) ALL MATERIAL INDICATED ON THE PLANS TO INCLUDE BUT NOT LIMITED TO, CONCRETE, BITUMINOUS PAVEMENT, CURBING, ETC.
7. ANY ITEM OF WORK NOT SPECIFICALLY INDICATED ON THE PLANS BUT REQUIRED FOR THE COMPLETE CONSTRUCTION OF THE PROJECT DEFINED IN THE PLAN SET, 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 AND CONFORM TO THE SCOPE AND INTENT OF THE PROJECT PLANS.
8. ALL RIM GRADES SHALL BE ADJUSTED TO GRADE AS REQUIRED. ALL FRAMES AND GRATES SHALL BE DEPRESSED 0.1' UNLESS OTHERWISE NOTED, AND IN ALL CASES THE PAVEMENT SHALL BE SHAPED TO PROVIDE A SMOOTH TRANSITION TO GRADE.
9. ALL UTILITY BOXES AND MANHOLE COVERS SHALL BE ADJUSTED TO GRADE AS REQUIRED. IN NO CASE SHALL SUCH STRUCTURES BE MORE THAN ½ INCH BELOW FINISHED GRADE.
10. THE CONTRACTOR SHALL LOAM AND SEED ALL AREAS AT THE EDGE OF PAVEMENT THAT ARE DISTURBED BY CONSTRUCTION OPERATIONS. EXISTING GRADES ARE TO BE MAINTAINED EXCEPT WHERE NOTED ON THE PLANS. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO MAINTAIN THE INTEGRITY OF ALL EXISTING UTILITIES, STRUCTURES, AND ABUTTING PROPERTIES. THE COST OF ANY REPAIR OR REPLACEMENT OF DAMAGED ITEMS SHALL BE BORNE BY THE CONTRACTOR.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL TEMPORARY SEDIMENTATION AND EROSION CONTROLS.
12. ALL WORK TO BE DONE WITHIN THE STATE RIGHT-OF-WAY (ROW) SHALL CONFORM TO THE R.I. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AMENDED AUGUST 2-13 WITH ALL REVISIONS AND ADDENDA. STANDARD DETAILS FOR THIS WORK ARE R.I. STANDARD DETAILS 1998 EDITION WITH ALL REVISIONS.
13. THE PAVEMENT MARKINGS ON THE PLANS REPRESENTS THE FINAL STRIPING TO BE PLACED FOR THE ROADWAY IMPROVEMENT PROJECT. ALL STRIPING NOT IN CONFORMANCE WITH THESE PLANS SHALL BE REMOVED BY R.I.D.O.T. APPROVED METHODS. ALL FINAL STRIPING SHALL BE EPOXY RESIN PAVEMENT MARKINGS, AND SHALL BE PLACED IN ACCORDANCE WITH THE LATEST REVISIONS OF THE MANUAL ON TRAFFIC CONTROL DEVICES (M.U.T.C.D.) AS AMENDED AND R.I.D.O.T. STANDARD SPECIFICATIONS.
14. PRIOR TO INSTALLATION, ALL NEW AND/OR RESET SIGNS, MOUNTINGS AND LOCATIONS SHALL BE APPROVED OR MODIFIED BY THE ENGINEER.
15. IT IS THE INTENT OF THIS CONTRACT TO MAINTAIN EXISTING ROADWAY CROSS-SLOPES IN THE PAVEMENT WIDENING ARE UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL ESTABLISH THE NEW GUTTER LINE IN ACCORDANCE WITH THE PLANS AND ADJUST EXISTING UTILITIES AS REQUIRED.
16. CLEARING AND GRUBBING AND SELECTIVE CLEARING AREAS SHALL BE LIMITED TO THE AREAS OF DISTURBANCE FOR SLOPE CONSTRUCTION.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND PROTECTION OF TRAFFIC INCLUDING POLICE DETAILS. ALL TRAFFIC CONTROL INCLUDING BUT NOT LIMITED TO TEMPORARY CONSTRUCTION SIGNS, BARRICADES AND LANE CLOSURES/DETOURS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE M.U.T.C.D.
18. ALL TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES 2009, INCLUDING ALL REVISIONS.

GENERAL LEGEND

2.3.0	PRECEAST CONCRETE FLARED END SECTION
7.1.0C/S	PRECAST CONCRETE CURB (CIRCULAR/STRAIGHT)
7.1.1	3'-0" PRECEAST CONCRETE TRANSITION CURB
7.5.1A	BITUMINOUS BERM (CONSTRUCTION METHOD A)
8.1.0	SEEDED DITCH
8.4.0 (MOD.)	PAVED WATERWAY, MODIFIED (SEE DETAIL THIS SHEET)
20.1.0	PAVEMENT MARKINGS - ARROWS AND ONLY
24.2.0	SIGN POST SELECTION AND INSTALLATION DETAILS U-CHANNEL POST (SIGNS UP TO 8'-0"W x 4'-0"H)
34.1.0	TYPICAL GUARDRAIL INSTALLATION
34.3.1	GUARDRAIL END SECTION
34.3.2	TERMINAL END SECTION (SINGLE FACE)
34.3.4	ANCHORAGE DETAILS TRAILING END SECTION
4Y	4" EPOXY RESIN PAVEMENT MARKINGS - YELLOW (10' STRIPE WITH 30' SPACE)
4DY	4" EPOXY RESIN PAVEMENT MARKINGS - DOUBLE YELLOW
BY	4" EPOXY RESIN PAVEMENT MARKINGS - YELLOW
8Y	8" EPOXY RESIN PAVEMENT MARKINGS - YELLOW
6W	6" EPOXY RESIN PAVEMENT MARKINGS - WHITE
6WSS	12" EPOXY RESIN PAVEMENT MARKINGS - WHITE (2' STRIPE WITH 4' SPACE)
12W	12" EPOXY RESIN PAVEMENT MARKINGS - WHITE
BCD	BITUMINOUS CONCRETE DRIVEWAY 3" CLASS 9.5 HMA 8" GRAVEL BORROW SUBBASE COURSE
BCP1	BITUMINOUS CONCRETE PAVEMENT 2" CLASS 9.5 HMA 4" CLASS 19.0 HMA 12" GRAVEL BORROW SUBBASE COURSE
BCP2	BITUMINOUS CONCRETE PAVEMENT 2" CLASS 9.5 HMA 2" CLASS 12.5 HMA 4" CLASS 19.0 HMA 12" GRAVEL BORROW SUBBASE COURSE
CFS	COMPOST FILTER SOCK (SEE DETAIL THIS SHEET)
CG	CLEAR AND GRUB
DBB	REMOVE AND DISPOSE BITUMINOUS BERM
DFP	REMOVE AND DISPOSE FLEXIBLE PAVEMENT
DG	REMOVE AND DISPOSE GUARDRAIL
DIR	REMOVE AND DISPOSE IRON PIPE
DWW	REMOVE AND DISPOSE PAVED WATERWAY
ETEA	END TERMINAL ENERGY ABSORBING
LOD	LIMIT OF DISTURBANCE
LOG	LIMIT OF GRADING
LS	4" LOAM AND SEED
MBG	MILLINGS BENEATH GUARDRAIL
MM	2" MICRO-MILLING WITH 2" CLASS 9.5 HMA OVERLAY
RBB	REMOVE AND DISPOSE BITUMINOUS BERM
RDB	REMOVE AND DISPOSE ROCK/BOULDER
RMB	REMOVE AND RESET MAILBOX
RPM	REMOVE PAVEMENT MARKINGS
RRP	RIP-RAP PAD (SEE DETAIL THIS SHEET)
RRS	REMOVE AND RELOCATE SIGN
RRSR	REMOVE AND RESET STONE RIP-RAP
RUP	RELOCATE UTILITY POLE (BY OTHERS)
SC	SELECTIVE CLEARING
SGA	SPECIAL GRADED AGGREGATE (4" DEPTH)
SSG	SLOPE STABILIZATION GEOMAT (TENAX MULTIMAT 100 OR APPROVED EQUAL)

SIGN LEGEND

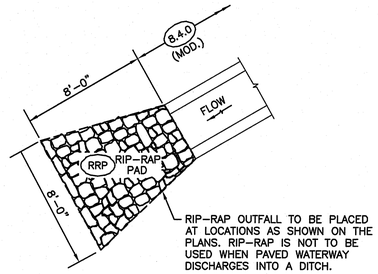




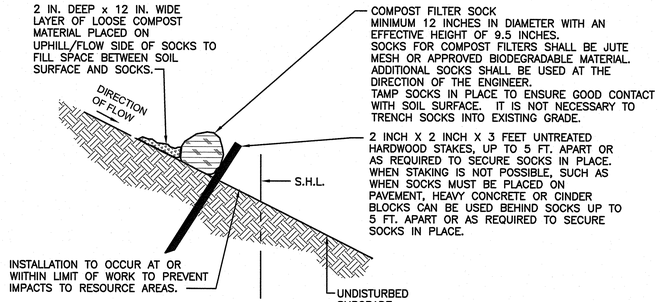
NOTE:
SHALL BE IN ACCORDANCE WITH SECTION 711 OF THE R.I. STANDARD SPECIFICATIONS.

PAVED WATERWAY
NOT TO SCALE

R.I. STANDARD 8.4.0 (MODIFIED)



RIP-RAP PAD (RRP)
NOT TO SCALE



NOTES:
1. PROVIDE A MINIMUM SOCK DIAMETER OF 12 INCHES FOR SLOPES UP TO 50 FEET IN LENGTH WITH A SLOPE RATIO OF 3H:1V OR STEEPER. LONGER SLOPES OF 3H:1V MAY REQUIRE LARGER SOCK DIAMETER OR ADDITIONAL COURSING OF FILTER SOCKS TO CREATE A FILTER BERM. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR SITUATIONS WITH LONGER OR STEEPER SLOPES.
2. INSTALL SOCKS ALONG CONTOURS AND PERPENDICULAR TO SHEET OR CONCENTRATED FLOW.
3. DO NOT INSTALL IN PERENNIAL, EPHEMERAL OR INTERMITTENT STREAMS.
4. CONFIGURE SOCKS AROUND EXISTING SITE FEATURES TO MINIMIZE SITE DISTURBANCE AND MAXIMIZE CAPTURE AREA OF STORMWATER RUN-OFF.

COMPOST FILTER SOCK
SCALE: NONE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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DATED MAY 06 2020 FILE # 15-0176
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ENGINEERED BY:
BETA
www.BETA-Inc.com
PLOT DATE: 4/11/2018 12:16 PM

P.E. STAMP:

SUBCONSULTANT:

PROJECT
Glacier Ridge
Assessor's Plat 14
Lots 10, 11, 12 & 18-20
Glocester, Rhode Island

TITLE
LEGEND, NOTES, AND DETAILS

REVISIONS

NO.	DESCRIPTION	DATE

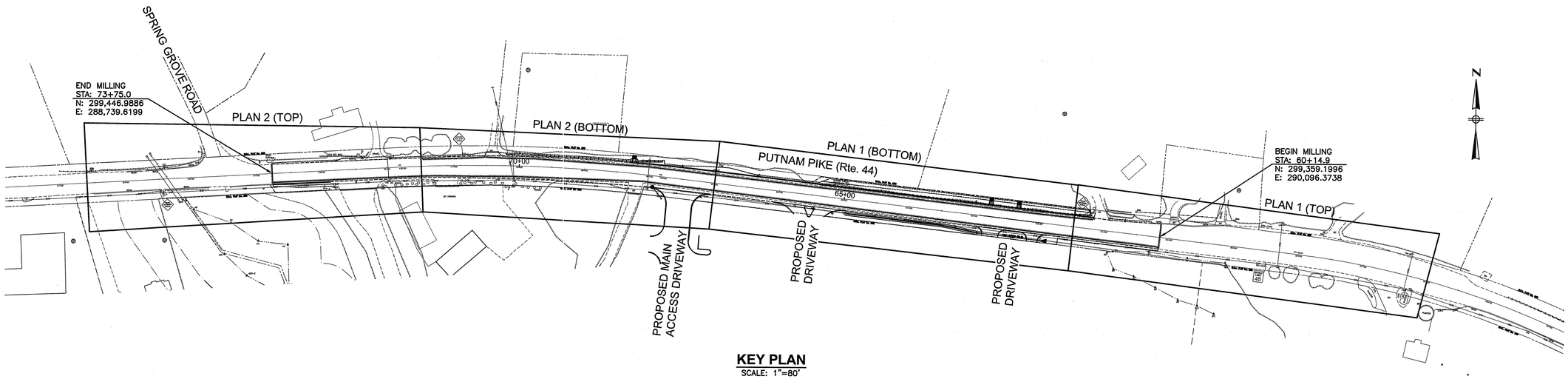
FILE: 5068 Legend-Notes-Details.dwg
DRAWN BY: KJA
DESIGNED BY: KJA, PJB
CHECKED BY: WM
BETA JOB No.: 5068 DATE: 8/17

NORTH ARROW

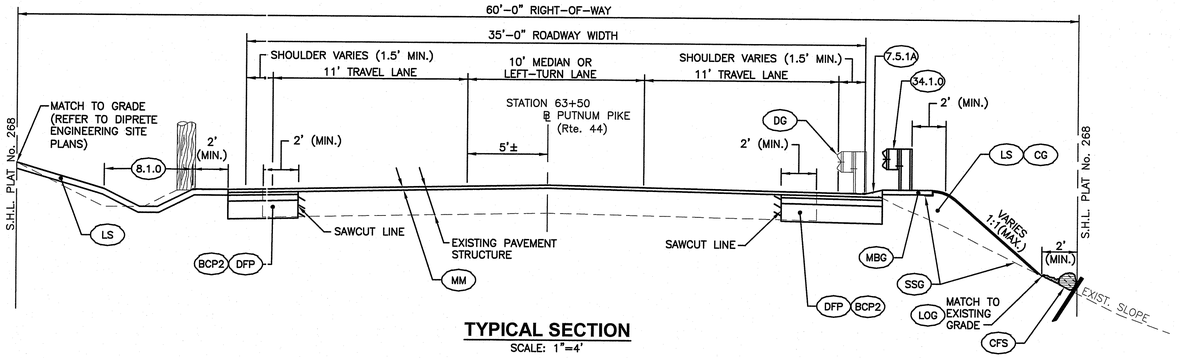
SCALE
AS SHOWN
UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

SHEET No.:
2 of 9

N:\5000S\5068 - GLACIER RIDGE - GLOCESTER, RI\AUTOCAD FILES\PAPA PLAN SET\5068 LEGEND-NOTES-DETAILS.DWG



KEY PLAN
SCALE: 1"=80'



TYPICAL SECTION
SCALE: 1"=4'

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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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Jacqueline D. Schmidt

ENGINEERED BY:
BETA
www.BETA-Inc.com
PLOT DATE: 4/25/2018 10:19 AM

P.E. STAMP:

SUBCONSULTANT:

PROJECT
Glacier Ridge
Assessor's Plat 14
Lots 10, 11, 12 & 18-20
Glocester, Rhode Island

TITLE
KEY PLAN
AND
TYPICAL SECTION

REVISIONS

NO.	DESCRIPTION	DATE

FILE: 5068 Typical Section.dwg
DRAWN BY: KJA
DESIGNED BY: KJA, PJB
CHECKED BY: WM
BETA JOB No.: 5068 DATE: 8/17

NORTH ARROW

AS SHOWN

SCALE
AS SHOWN

UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

SHEET No.:
3 of 9

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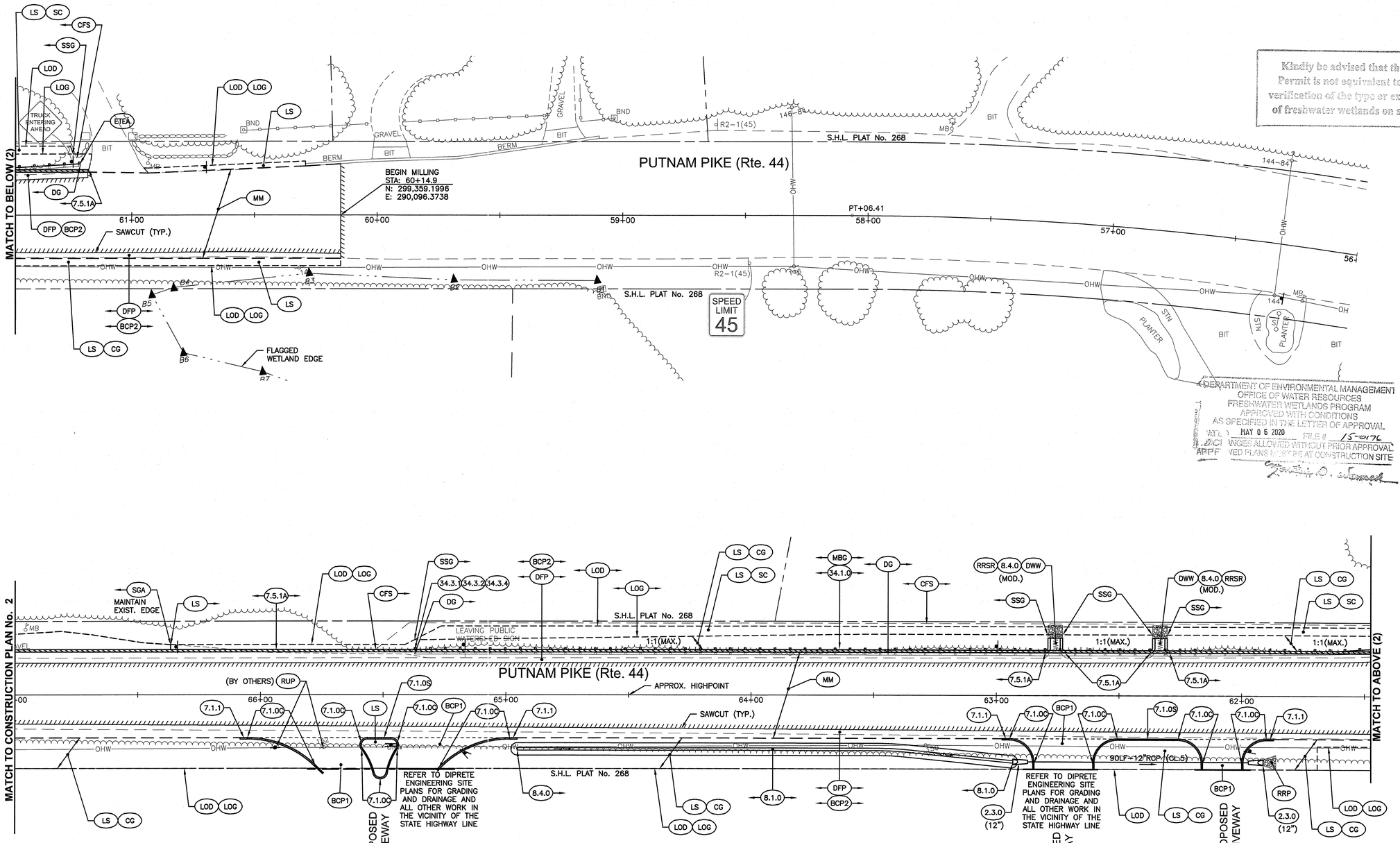


N:\5000S\5068 - GLACIER RIDGE - GLOCESTER, RI\AUTOCAD FILES\PAPA PLAN SET\5068 CONSTRUCTION PLANS.DWG

ENGINEERED BY:

BETA

www.BETA-Inc.com

PLOT DATE: 9/20/2019 10:51 AM

P.E. STAMP:

SUBCONSULTANT:

PROJECT

Glacier Ridge

Assessor's Plat 14
Lots 10, 11, 12 & 18-20

Glocester, Rhode Island

TITLE

CONSTRUCTION PLAN - 1

REVISIONS

NO.	DESCRIPTION	DATE
1	GRADING CALLOUT REVISIONS	9/20/19

FILE: 5068 Construction Plans.dwg

DRAWN BY:	KJA
DESIGNED BY:	KJA, PJB
CHECKED BY:	WM
BETA JOB No.:	5068 DATE: 8/17

NORTH ARROW

SCALE

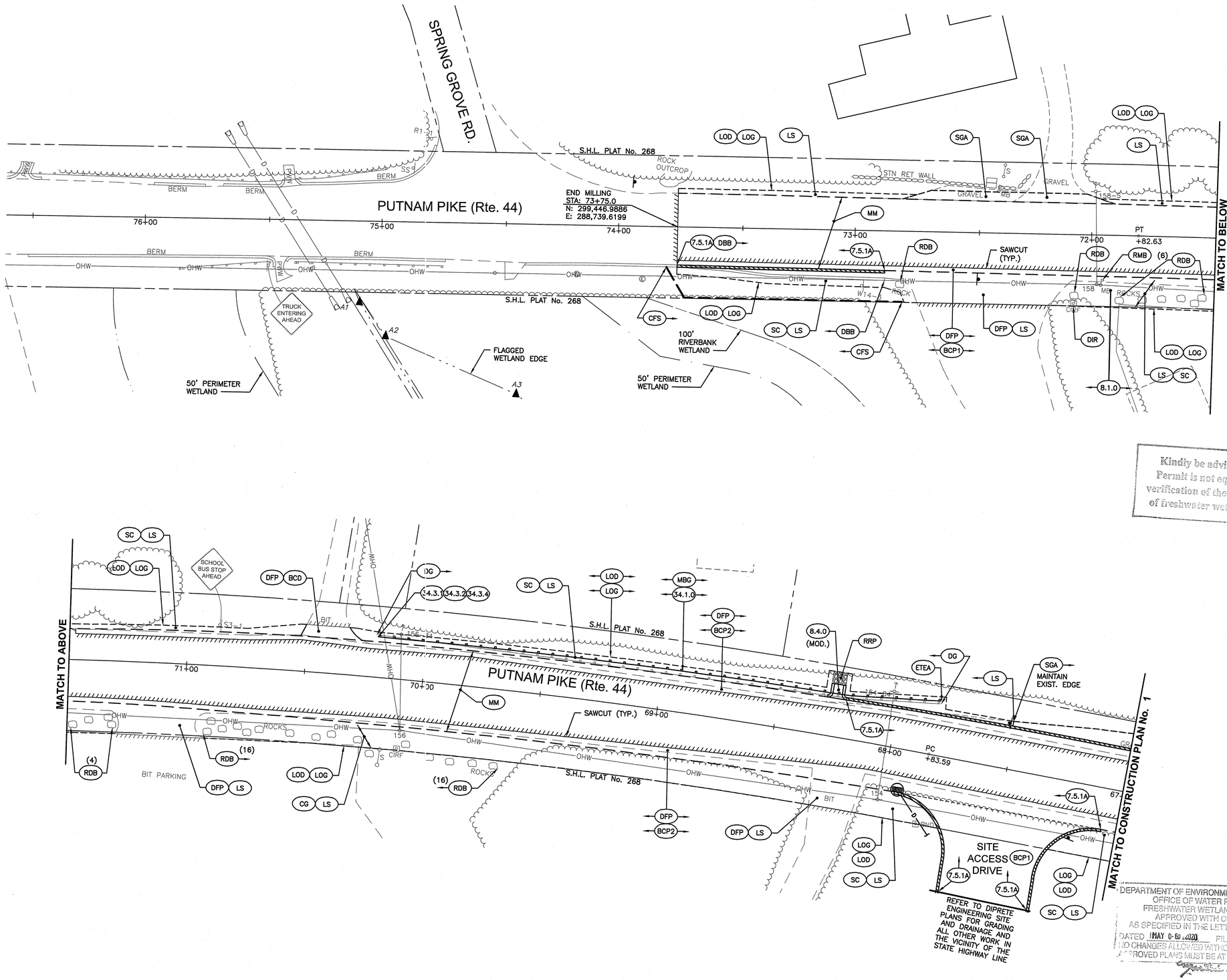
20 0 20 40

SCALE IN FEET: 1"=20'

UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

SHEET No.:

4 of 9



Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 06 2020 FILE # 15-0176
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

ENGINEERED BY:
BETA
www.BETA-Inc.com
PLOT DATE: 10/24/2019 10:35 AM

P.E. STAMP:

SUBCONSULTANT:

PROJECT
Glacier Ridge
Assessor's Plat 14
Lots 10, 11, 12 & 18-20
Glocester, Rhode Island

TITLE
CONSTRUCTION PLAN - 2

REVISIONS

NO.	DESCRIPTION	DATE
1	GRADING CALLOUT REVISIONS	9/20/19
2	LOD REVISION	10/23/19

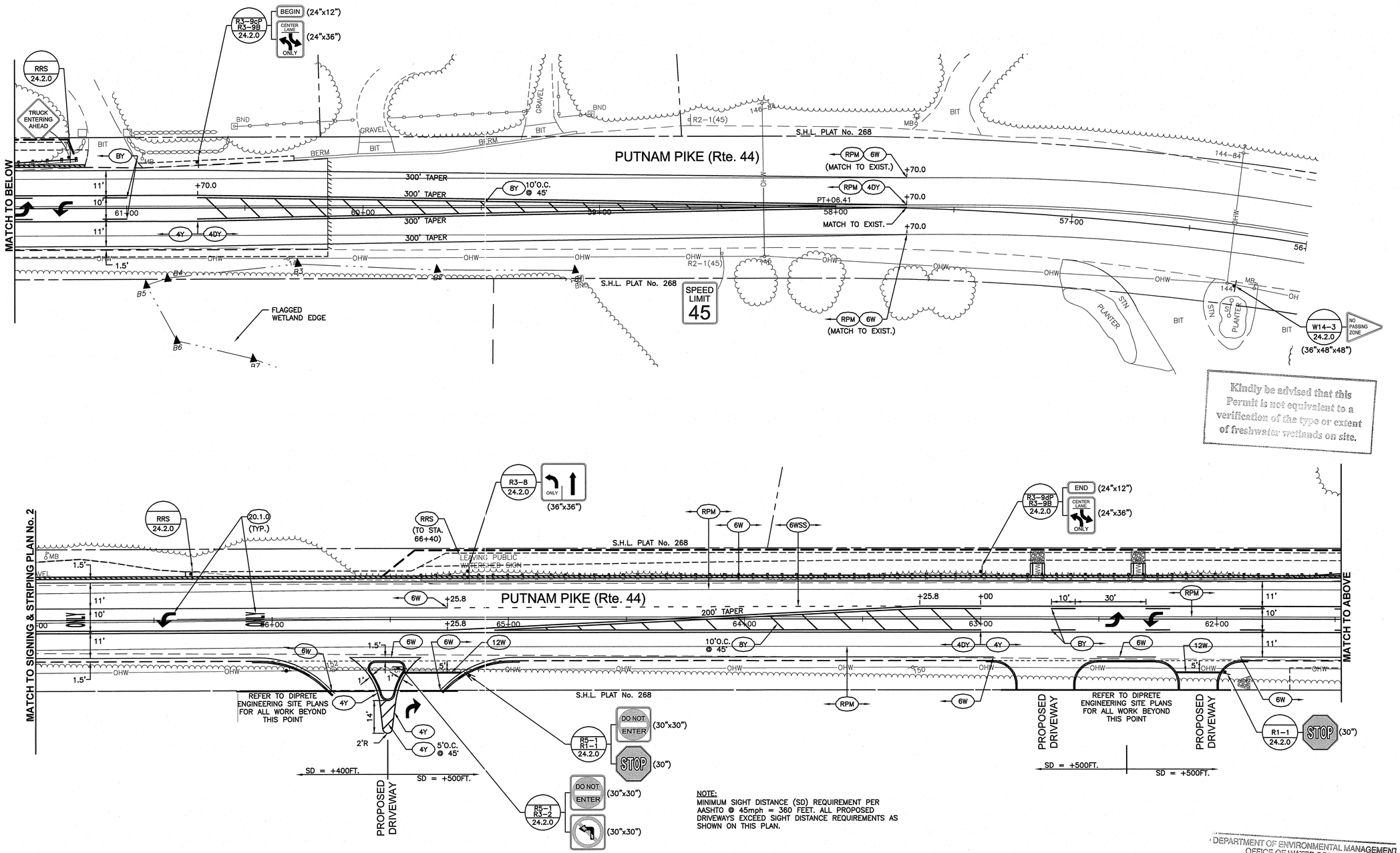
FILE: 5068 Construction Plans.dwg
DRAWN BY: KJA
DESIGNED BY: KJA, PJB
CHECKED BY: WM
BETA JOB No.: 5068 DATE: 8/17

NORTH ARROW

SCALE
20 0 20 40
SCALE IN FEET: 1"=20'
UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

SHEET No.:
5 of 9

N:\5000S\5068 - GLACIER RIDGE - GLOCESTER, RI\AUTOCAD FILES\PAPA PLAN SET\5068 CONSTRUCTION PLANS.DWG



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NOTE:
MINIMUM SIGHT DISTANCE (SD) REQUIREMENT PER AASHTO @ 45mph = 360 FEET. ALL PROPOSED DRIVEWAYS EXCEED SIGHT DISTANCE REQUIREMENTS AS SHOWN ON THIS PLAN.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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DATED MAY 06 2020 FILE # 15-0176
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ENGINEERED BY:
BETA
www.BETA-Inc.com
PLOT DATE: 4/11/2018 2:47 PM

P.E. STAMP:

SUBCONSULTANT:

PROJECT
Glacier Ridge
Assessor's Plat 14
Lots 10, 11, 12 & 18-20
Glocester, Rhode Island

TITLE
SIGNING & STRIPING PLAN - 1

REVISIONS

NO.	DESCRIPTION	DATE

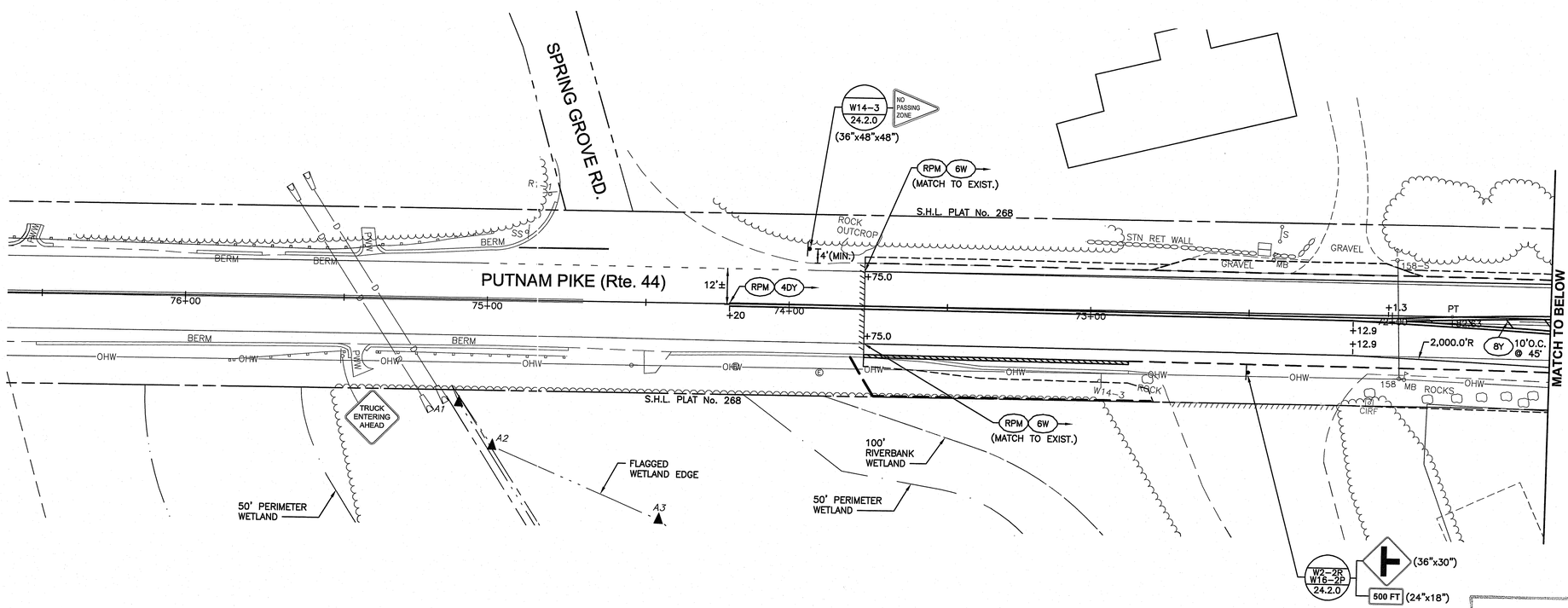
FILE: 5068 Signing & Striping Plans.dwg
DRAWN BY: KJA
DESIGNED BY: KJA, PJB
CHECKED BY: WM
BETA JOB No.: 5068 DATE: 8/17

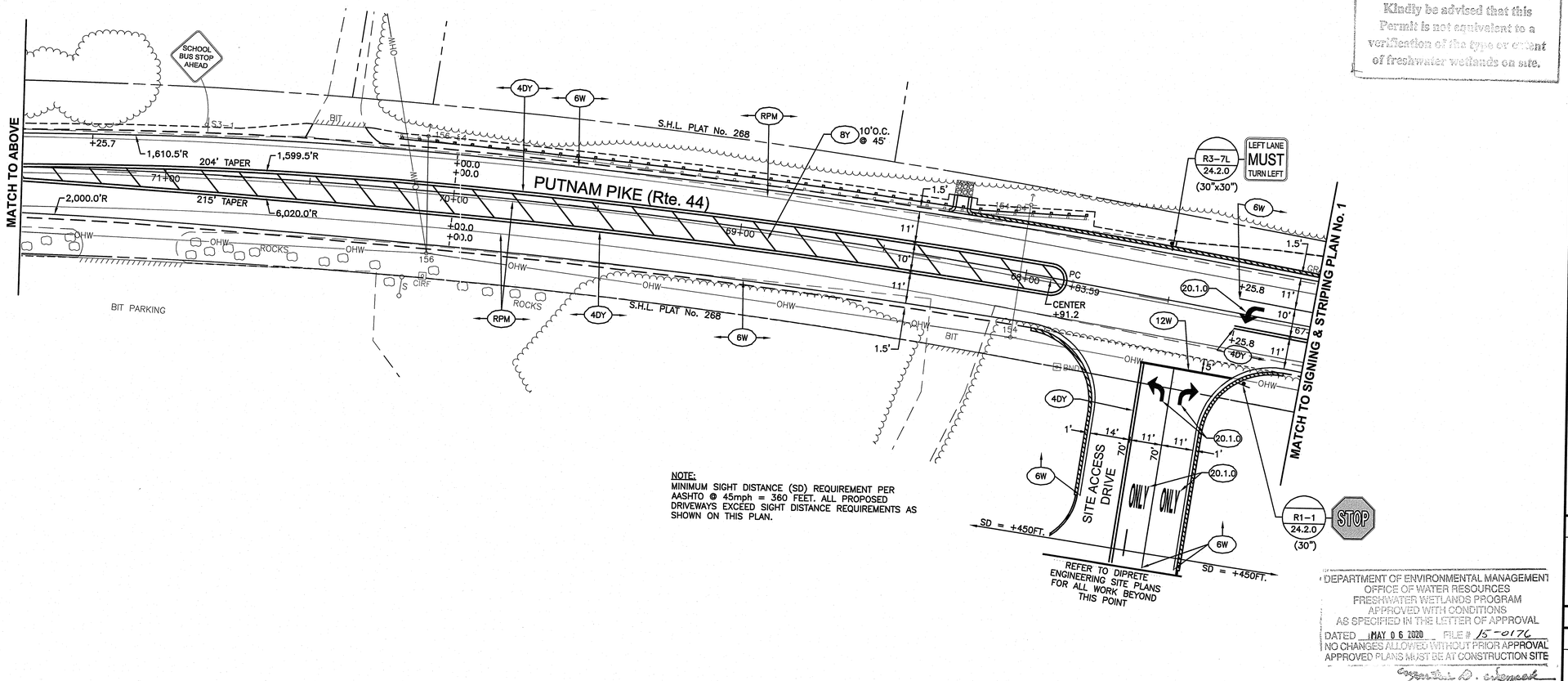
NORTH ARROW

SCALE
20 0 20 40
SCALE IN FEET: 1"=20'
UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

SHEET No.:
6 of 9

N:\5000S\5068 - GLACIER RIDGE - GLOCESTER, RI\AUTOCAD FILES\PAPA PLAN SET\5068 SIGNING & STRIPING PLANS.DWG





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DATED MAY 06 2020 FILE # 15-0176
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE

ENGINEERED BY:
BETA
www.BETA-Inc.com
PLOT DATE: 4/11/2018 2:47 PM

P.E. STAMP:

SUBCONSULTANT:

PROJECT
Glacier Ridge
Assessor's Plat 14
Lots 10, 11, 12 & 18-20
Glocester, Rhode Island

TITLE
SIGNING & STRIPING PLAN - 2

REVISIONS

NO.	DESCRIPTION	DATE

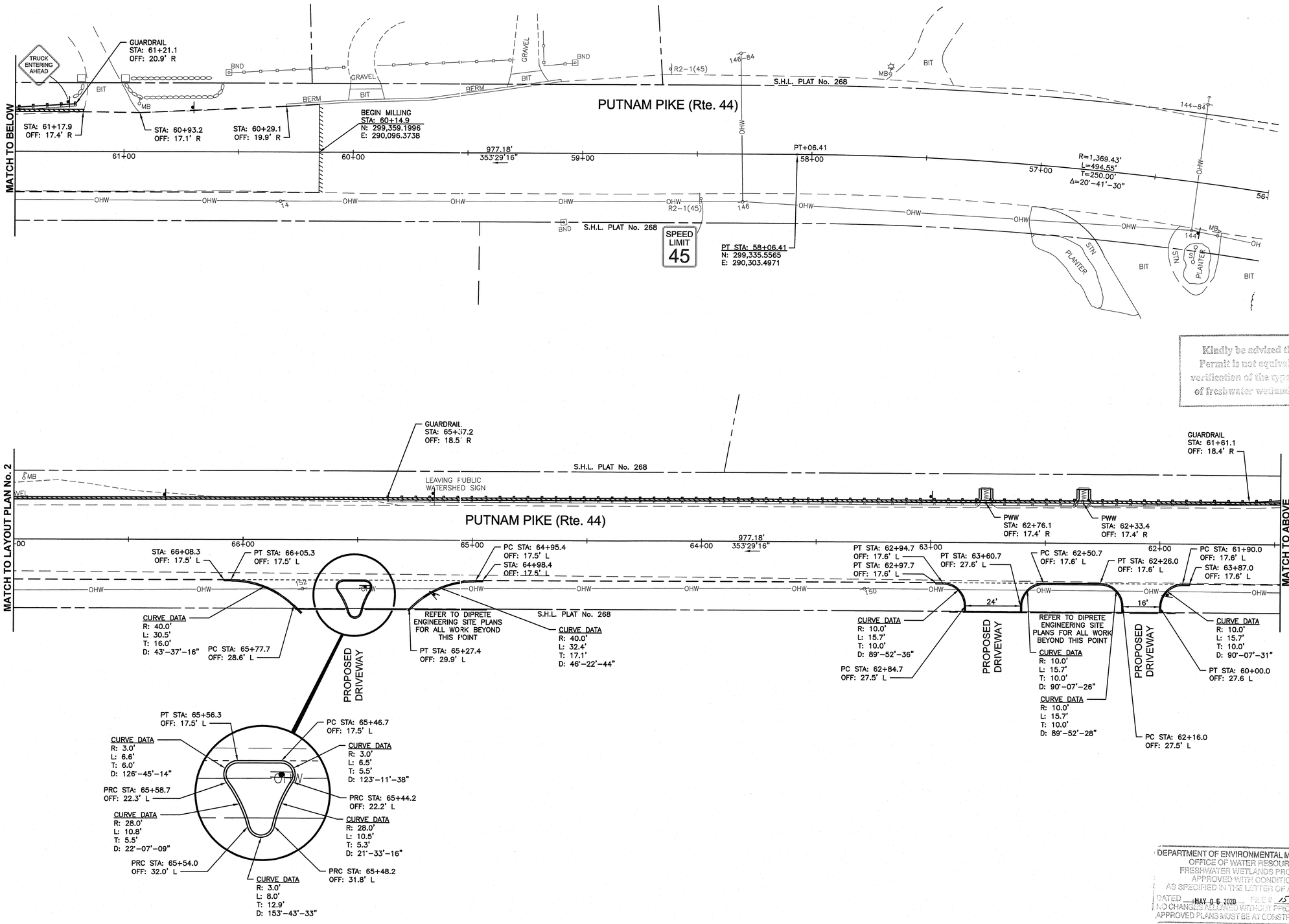
FILE: 5068 Signing & Striping Plans.dwg
DRAWN BY: KJA
DESIGNED BY: KJA, PJB
CHECKED BY: WM
BETA JOB No.: 5068 DATE: 8/17

NORTH ARROW

SCALE
20 0 20 40
SCALE IN FEET: 1"=20'
UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

SHEET No.:
7 of 9

N:\5000\5068 - GLACIER RIDGE - GLOCESTER, RI\AUTOCAD FILES\PAPA PLAN SET\5068 SIGNING & STRIPING PLANS.DWG



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ENGINEERED BY:

BETA

www.BETA-Inc.com

PLOT DATE: 4/11/2018 2:45 PM

P.E. STAMP:

SUBCONSULTANT:

PROJECT

Glacier Ridge

Assessor's Plat 14
Lots 10, 11, 12 & 18-20

Glocester, Rhode Island

TITLE

LAYOUT PLAN - 1

REVISIONS

NO.	DESCRIPTION	DATE

FILE: 5068 Layout Plans.dwg

DRAWN BY: KJA

DESIGNED BY: KJA, PJB

CHECKED BY: WM

BETA JOB No.: 5068 DATE: 8/17

NORTH ARROW

SCALE

20 0 20 40

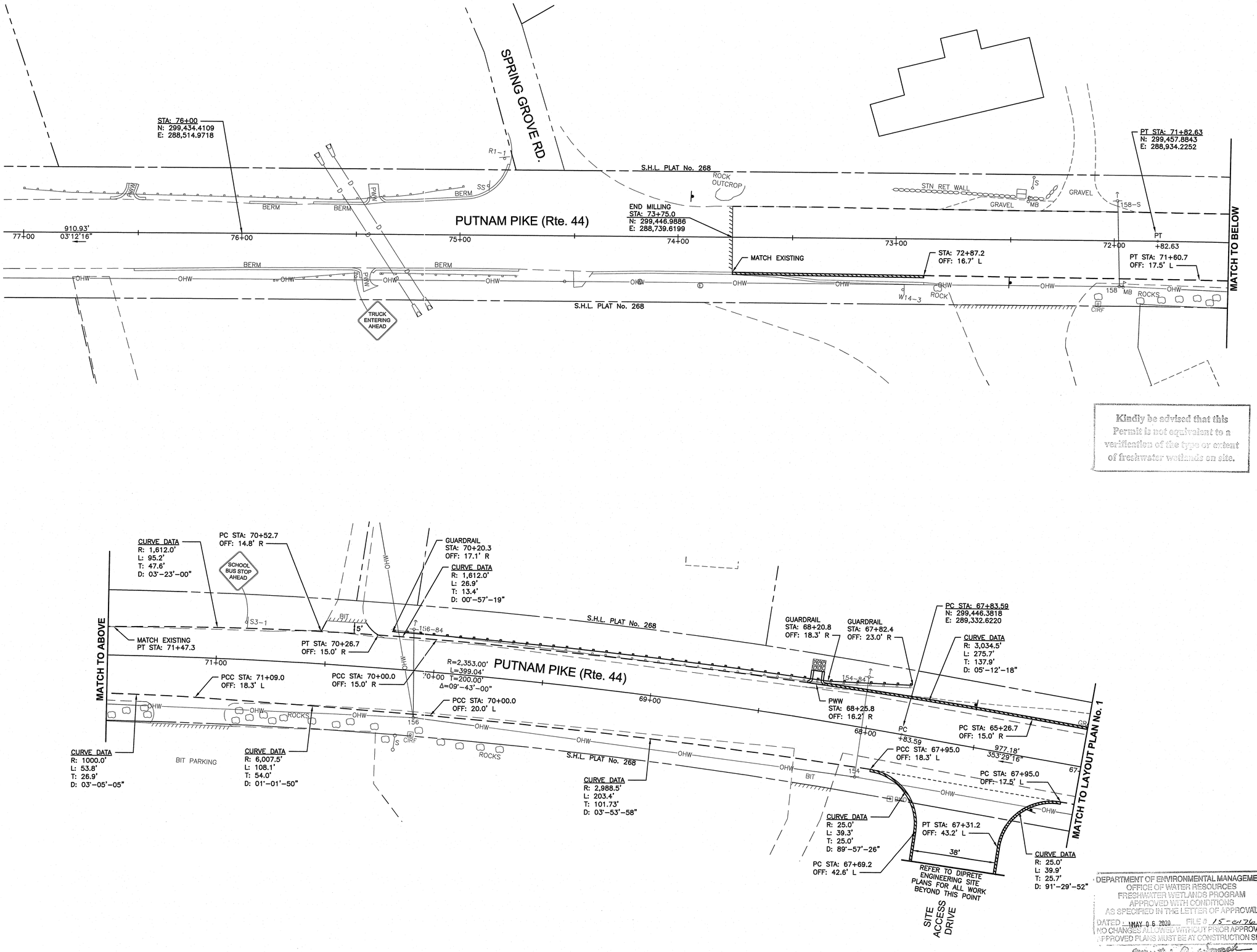
SCALE IN FEET: 1"=20'

UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

SHEET No.:

8 of 9

N:\5000\5068 - GLACIER RIDGE - GLOCESTER, RI\AUTOCAD FILES\PAPA PLAN SET\5068 LAYOUT PLANS.DWG



N:\5000S\5068 - GLACIER RIDGE - GLOCESTER, RI\AUTOCAD FILES\PAPA PLAN SET\5068 LAYOUT PLANS.DWG

ENGINEERED BY:

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PLOT DATE: 4/11/2018 2:45 PM

P.E. STAMP:

SUBCONSULTANT:

PROJECT

Glacier Ridge

Assessor's Plat 14
Lots 10, 11, 12 & 18-20

Glocester, Rhode Island

TITLE

LAYOUT PLAN - 2

REVISIONS

NO.	DESCRIPTION	DATE

FILE: 5068 Layout Plans.dwg

DRAWN BY:	KJA
DESIGNED BY:	KJA, PJB
CHECKED BY:	WM
BETA JOB No.:	5068 DATE: 8/17

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