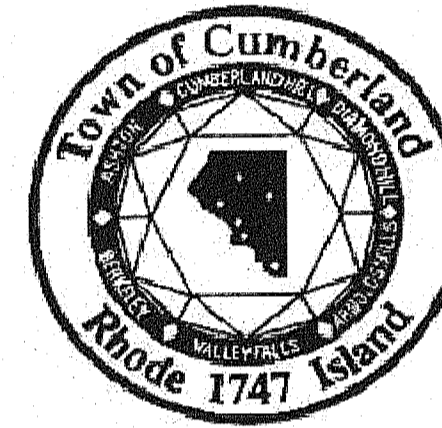


Diamond Hill Park Improvements

Diamond Hill Park
Cumberland, Rhode Island

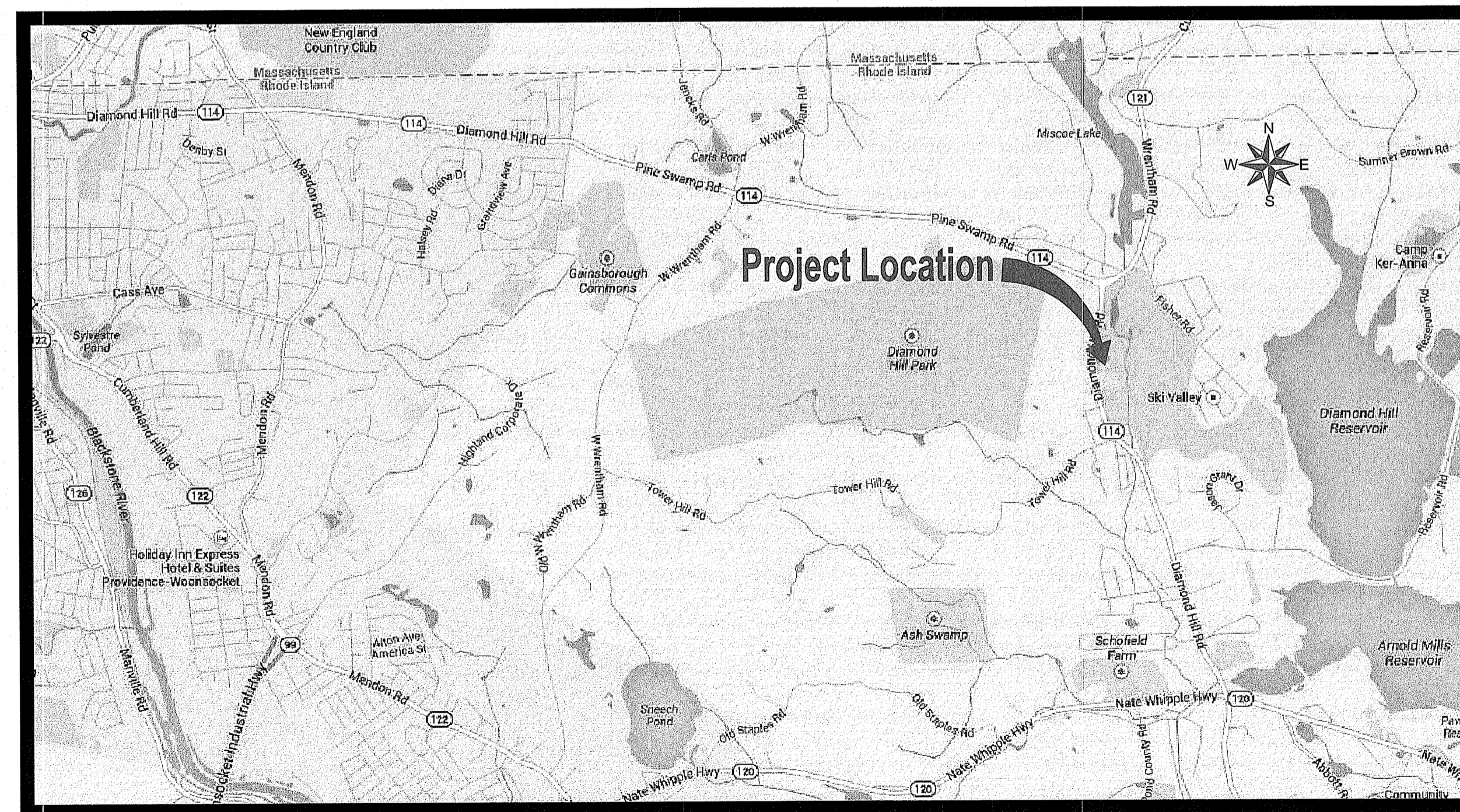
Prepared For

The Town of Cumberland, Rhode Island



Environmental Management
SEP 15 2020
Office of Water Resources

PARE
PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100



INDEX OF DRAWINGS

SHEET No.	DRAWING No.	DESCRIPTION
1		COVER SHEET
2	C1.0	NOTES
3	C2.0	EXISTING CONDITIONS PLAN
4	C3.0	DEMOLITION AND SEDIMENT REMOVAL PLAN
5	C4.0	GENERAL PLAN
6	C5.0	BRIDGE PLAN AND SECTIONS
7	C6.0	DETAILS

September 2020

**Permit Submission
Not For Construction**

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JAN 06, 2021 FILE # 20-0207
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Martin D. Wonsch

GENERAL NOTES:

- ALL CONSTRUCTION INDICATED ON THESE PLANS SHALL BE IN ACCORDANCE WITH:
 - THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION (RIDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION (AMENDED MARCH 2018), WITH ALL REVISIONS (RI STANDARD SPECIFICATIONS).
 - THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) LRFD BRIDGE DESIGN SPECIFICATIONS, EIGHTH EDITION, 2017, INCLUDING THE LATEST INTERIM REVISIONS.
 - THE AASHTO LRFD GUIDE SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES, SECOND EDITION, 2009, INCLUDING THE LATEST INTERIM REVISIONS.
 - THE SPECIFICATIONS ACCOMPANYING AND CONTAINED WITHIN THESE PLANS.
- THE COORDINATES USED ON THESE PLANS ARE BASED ON THE STATEWIDE COORDINATE SYSTEM, THE NORTH AMERICAN DATUM OF 1983 (NAD 83).
- VERTICAL DATUM IS ASSUMED.
- THE SUITABILITY OF FOUNDATION MATERIAL SHALL BE APPROVED BY THE ENGINEER PRIOR TO PLACEMENT OF THE REINFORCED SOIL FOUNDATION (RSF).
- TOPOGRAPHIC INFORMATION WAS OBTAINED FROM THE TOPOGRAPHIC SURVEY COMPLETED BY MILLSTONE ENGINEERING, P.C. AS PART OF THE PLAN ENTITLED "DIAMOND HILL PARK, RENOVATION TO THE MUSIC VENUE, CONSTRUCTION PLAN SET" BY THE GIFFORD DESIGN GROUP, INC. IN ASSOCIATE WITH MILLSTONE ENGINEERING, P.C., DATED JUNE 2013 WITH REVISIONS THROUGH 12-04-13.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS. PLANS SHALL NOT BE SCALED FOR DIMENSIONS. CONSTRUCTION SHALL BE MADE FROM APPROVED SHOP DRAWINGS ONLY.
- NOTES, TYPICAL DETAILS, AND SCHEDULES APPLY TO ALL WORK UNLESS OTHERWISE NOTED. FOR CONDITIONS NOT SPECIFICALLY SHOWN, PROVIDE DETAILS OF SIMILAR NATURE. VERIFY APPLICABILITY BY SUBMITTING SHOP DRAWINGS FOR REVIEW.
- INFORMATION REGARDING THE LOCATION OF SURROUNDING STRUCTURES, UTILITIES, AND THE AS-BUILT CONFIGURATION AND CONDITION OF THE EXISTING DAM AND SPILLWAY IS FURNISHED SOLELY FOR THE CONVENIENCE OF THE CONTRACTOR AND SHALL BE FIELD VERIFIED. THE CONTRACTOR SHALL CONDUCT ITS OWN INDEPENDENT EXAMINATION OF SITE CONDITIONS FOR THE PURPOSE OF BIDDING, FABRICATION, AND CONSTRUCTION ASSOCIATED WITH THE PROJECT. ANY RELIANCE UPON INFORMATION MADE AVAILABLE BY THE TOWN OR THE ENGINEER SHALL BE AT THE CONTRACTOR'S RISK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF ALL PROJECT DEMOLITION AND EXCESS MATERIAL IN ACCORDANCE WITH RHODE ISLAND, LOCAL, AND FEDERAL LAWS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO ADJACENT STRUCTURES AND UTILITIES AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL REQUIRED PERMITS IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIRED PERMITS FOR THIS PROJECT. THE CONTRACTOR SHALL NOTE ANY WORK RESTRICTIONS CONTAINED IN THE PERMITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL BUILDING PERMITS.
- NO WORK OR DISCHARGES SHALL BE PERFORMED WITHIN WETLANDS WITHOUT FIRST RECEIVING PROPER PERMITS FROM THE REGULATORY AGENCIES. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING, RESTORING AND REPAIRING ALL DAMAGE AS A RESULT OF UNAUTHORIZED WORK TO THE WETLAND AREA AT NO ADDITIONAL COST TO THE OWNER.
- WHERE REFERENCE IS MADE TO ANY STANDARD SPECIFICATION IT SHALL MEAN THE MOST RECENT SPECIFICATION, CODE, STANDARD, OR INTERIM SPECIFICATIONS OF THE ORGANIZATION REFERRED TO AND SHALL BE CONSIDERED A PART OF THESE CONTRACT DOCUMENTS TO THE EXTENT INDICATED. IN CASE OF CONFLICT, THE MORE RIGID REQUIREMENTS AND CODES SHALL GOVERN.
- THE SITE WORK SHALL TAKE PLACE IN AN UNSECURED AREA WHICH MAY BE SUBJECT TO FREQUENT TRESPASSING AND UNAUTHORIZED USE. CONTRACTOR SHALL MAINTAIN A SECURE SITE AND PROVIDE APPROPRIATE SAFETY MEASURES TO PREVENT ACCIDENTS. THE SAFETY MEASURE MAY INCLUDE, BUT NOT LIMITED TO SIGNAGE, BARRICADE, FENCES, FLASHING WARNING LIGHTS, AND POLICING.

REFERENCES:

- WETLANDS DELINEATED BY THE GIFFORD DESIGN GROUP, INC. ON JULY 25, 2012 AND LOCATED BY MILESTONE ENGINEERING, P.C. ON JULY 25, 2012.
- PLAN ENTITLED "GRADING PLAN, SITE IMPROVEMENTS PHASE 1, DIAMOND HILL STATE PARK, CUMBERLAND, RI" BY STATE OF RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT, DIVISION OF PLANNING AND DEVELOPMENT, SHEET 37, DATED DECEMBER 1983.
- PLAN ENTITLED "DIAMOND HILL PARK, RENOVATION TO THE MUSIC VENUE, CONSTRUCTION PLAN SET" BY THE GIFFORD DESIGN GROUP, INC. IN ASSOCIATE WITH MILLSTONE ENGINEERING, P.C., DATED JUNE 2013 WITH REVISIONS THROUGH 12-04-13.
- REPORT ENTITLED "POND MANAGEMENT PLAN, DIAMOND HILL TOWN PARK, STAGE POND, CUMBERLAND RHODE ISLAND" PREPARED BY PARE CORPORATION IN SEPTEMBER 2020.

GENERAL NOTES:

- DESIGN SPECIFICATIONS
 - THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, EIGHTH EDITION, 2017, INCLUDING ALL INTERIM REVISIONS.
 - THE RHODE ISLAND LRFD BRIDGE DESIGN MANUAL, 2008 EDITION INCLUDING ALL REVISIONS TO DATE.
 - ALL OTHER APPLICABLE DESIGN SPECIFICATIONS ARE REFERENCED IN SECTION 1 OF THE RHODE ISLAND LRFD BRIDGE DESIGN MANUAL DATED 2008.
 - THE RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION (AMENDED MARCH 2018), WITH ALL REVISIONS (RI STANDARD SPECIFICATIONS).
 - IN CASE OF CONFLICT, THE RHODE ISLAND LRFD BRIDGE DESIGN MANUAL SHALL GOVERN.

MATERIALS NOTES:

- GEOSYNTHETIC REINFORCEMENT:**
- GEOTEXTILE FABRIC SHALL HAVE A MINIMUM ULTIMATE TENSILE STRENGTH OF 4,800 LB/FT IN ACCORDANCE WITH ASTM D 4595-11. TENSILE STRENGTH AT 2% STRAIN SHALL BE A MINIMUM OF 1,370 LB/FT.
- BACKFILL MATERIAL:**
- FURNISH CRUSHED DURABLE PARTICLES, FRAGMENTS OF STONE GRAVEL FREE FROM ORGANIC MATTER OR OTHER DELETERIOUS MATERIAL FOR THE RSF AND BEAM SEAT BACKFILL MATERIAL.
 - RSF AND BEAM SEAT BACKFILL MATERIAL SHALL MEET THE FOLLOWING REQUIREMENTS:
 - AASHTO NO. 89 OPEN-GRADED BACKFILL

GRADATION (AASHTO M-43)	U.S. SIEVE SIZE	% PASSING
	1/2 INCH	100
	3/8 INCH	90-100
	NO. 4	20-55
	NO. 8	5-30
	NO. 16	0-10
	NO. 50	0-5
 - PLASTICITY INDEX (PI) (AASHTO T-90) $PI \leq 6$
 - SOUNDNESS (AASHTO T-104): THE BACKFILL SHALL BE SUBSTANTIALLY FREE OF SHALE OR OTHER POOR DURABILITY PARTICLES. THE MATERIAL SHALL HAVE A MAGNESIUM SULFATE LOSS OF LESS THAN 30 PERCENT AFTER FOUR CYCLES OR A SODIUM VALUE LESS THAN 15 PERCENT AFTER FIVE CYCLES (AASHTO T 104-99).
 - THE AMOUNT OF FINES PASSING THE NO. 200 SIEVE SHOULD BE AS CLOSE TO 0 PERCENT AS POSSIBLE AND NO MORE THAN 5 PERCENT.
 - ANGLE OF INTERNAL FRICTION SHALL BE A MINIMUM OF 38 DEGREES.
- POLYSTYRENE FOAM BOARD:**
- AASHTO DESIGNATION M230 TYPE VI. FOAM BOARDS SHALL BE EXPANDED POLYSTYRENE FILLER OR EQUIVALENT, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 10 PSI.
- REINFORCING STEEL:**
- DEFORMED BARS - AASHTO M31 (ASTM A706) GRADE 60
- CONCRETE:**
- RIDOT CLASS XX 1/2", AIR-ENTRAINED.
- ASPHALTIC COATING:**
- AN ASPHALTIC COATING SHALL BE APPLIED TO THE TIMBER BEAMS WHEN EMBEDDED BETWEEN THE GRS ABUTMENT AND THE WINGWALL TO SEAL THE EMBEDDED TIMBER. THE COATING SHALL BE COMPATIBLE WITH THE BEAM MATERIAL AND PRESERVATIVE TREATMENT, AND SHALL BE APPLIED ACCORDING TO THE ASPHALTIC COATING AND TIMBER PRESERVATIVE MANUFACTURERS' GUIDELINES.

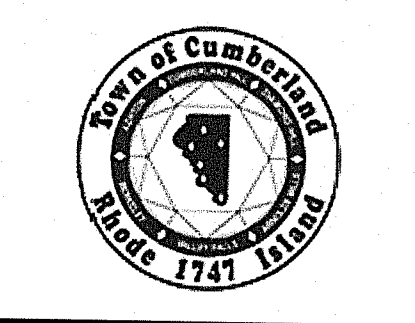
CONSTRUCTION NOTES:

- EXCAVATION: COMPLY WITH OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AS WELL AS STATE AND LOCAL REGULATIONS FOR ALL EXCAVATIONS.
 - COMPACTION: COMPACT BACKFILL TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY ACCORDING TO AASHTO-T-99 AND ± 2 PERCENT OPTIMUM MOISTURE CONTENT IN THE BEARING REINFORCEMENT ZONE, COMPACT TO 100% OF THE MAXIMUM DRY DENSITY ACCORDING TO AASHTO-T-99. ONLY HAND-OPERATED COMPACTION EQUIPMENT SHALL BE USED.
 - RSF CONSTRUCTION: THE RSF SHOULD BE ENCAPSULATED IN GEOTEXTILE REINFORCEMENT ON ALL SIDES WITH MINIMUM OVERLAPS OF 3 FEET TO PREVENT WATER INFILTRATION. WRAPPED CORNERS NEED TO BE TIGHT WITHOUT EXPOSED SOIL. COMPACT BACKFILL MATERIAL IN LIFTS LESS THAN 6" IN COMPACTED HEIGHT. GRADE AND LEVEL THE TOP OF THE RSF PRIOR TO FINAL ENCAPSULATION, AS THIS WILL SERVE AS THE LEVELING PAD FOR THE CONCRETE BLOCKS OF THE GRS ABUTMENT.
 - REINFORCED CONCRETE BEAM SEAT SHALL BE RIDOT CLASS X CONCRETE, CONSTRUCTED TO THE DIMENSIONS AND LOCATIONS SHOWN ON THE PLANS.
 - SET BEAMS SQUARE AND LEVEL WITHOUT DRAGGING ACROSS THE BEAM SEAT SURFACE. **CONSTRUCTION**
- REINFORCED SOIL FOUNDATION:**
- THE BASE OF THE RSF SHALL BE CUT SMOOTH AND EXCAVATED TO UNIFORM DEPTH, AND ALL LOOSE, SOFT, WET, FROZEN, ORGANIC, AND UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE BASE AND SIDES OF THE EXCAVATION.
 - THE BASE OF THE RSF SHALL BE GRADED LEVEL FOR THE ENTIRE AREA OF THE BASE OF SUCH BACKFILL PLUS ADDITIONAL 1' ON ALL SIDES OR TO THE LIMITS SHOWN IN THE PLANS.
 - EXCAVATION SHALL BE BACKFILLED AS SOON AS POSSIBLE TO AVOID ADVERSE WEATHER DELAYS. IF THIS CANNOT BE ACHIEVED, THE EXCAVATION SHALL BE GRADED TO ONE END TO FACILITATE THE REMOVAL OF ANY WATER. IF EXCAVATION IS FLOODED, ALL WATER SHALL BE REMOVED ALONG WITH SOFT SATURATED SOILS.
 - THE RSF SHALL BE CONSTRUCTED WITH WELL-GRADED BACKFILL MATERIAL PLACED FROM THE FACE TO THE BACK TO ROLL FOLDS OR WRINKLE TO THE FREE END OF THE REINFORCEMENT LAYER. IT SHALL BE COMPACTED IN 6" THICK LIFTS IN ACCORDANCE WITH PLACEMENT OF BACKFILL AND COMPACTION NOTES.
 - THE FILL MATERIAL SHALL BE GRADED, LEVELED, AND COMPACTED BEFORE ENCAPSULATING THE RSF.
 - THE RSF SHALL BE ENCAPSULATED IN THE GEOTEXTILE REINFORCEMENT. THE GEOTEXTILE SHALL BE SIZED TO FULLY ENCLOSE THE RSF.
 - THE FIRST LAYER OF THE REINFORCEMENT SHALL BE PLACED ON THE UPSTREAM SIDE OF THE ABUTMENT WITH SUBSEQUENT LAYERS, IF NEEDED, OVERLAPPED A MINIMUM OF 3' ON THE TOP OF THE PRECEDING LAYER.
 - THE WRAPPED CORNERS OF THE RSF NEED TO BE TIGHT AND WITHOUT EXPOSED SOIL WITHIN THE RSF TO COMPLETE THE ENCAPSULATION.
- PLACEMENT OF BACKFILL AND COMPACTION:**
- FOR WELL-GRADED FILLS, THE BACKFILL MATERIAL SHALL BE COMPACTED TO AT LEAST 95% MAXIMUM DRY DENSITY ACCORDING TO AASHTO T-99-10.
 - FOR WELL-GRADED FILLS, ADJUST THE MOISTURE CONTENT OF THE COMPACTED BACKFILL MATERIALS TO WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT.
 - BACKFILL FOR THE BEAM SEAT SHALL BE CONSTRUCTED USING COMPACTED LIFTS OF 8".
 - FOR OPEN-GRADED FILLS, COMPACT EACH LAYER USING A SUITABLE COMPACTOR CAPABLE OF COMPACTING 8" OF FILL UNTIL THERE IS NO VISIBLE EVIDENCE OF FURTHER COMPRESSION. A MINIMUM OF FOUR PASSES SHALL BE APPLIED PER LIFT. COMPACTIVE EFFORT AND/OR EQUIPMENT SHALL BE ADJUSTED AS NECESSARY TO ACHIEVE THE REQUIRED MINIMUM DENSITY.
 - HAND-OPERATED COMPACTION EQUIPMENT, SUCH AS LIGHTWEIGHT MECHANICAL TAMPERS, PLATES, OR ROLLERS, IS REQUIRED.
 - COMPACTION EQUIPMENT SHALL BE SELECTED TO ACHIEVE THE REQUIRED FILL MATERIAL DENSITY.

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LEGEND

- ===== COFFER DAM
- --- --- TURBIDITY BARRIER
- - - - -100- - - - - LIMIT OF DISTURBANCE
- ○ ○ ○ ○ SILT FENCE
- ===== 200' RIVERBANK WETLAND BUFFER
- ===== 50' PERIMETER WETLAND BUFFER
- △ X-RJ △ X-RJ DELINEATED WETLAND



SCALE ADJUSTMENT GUIDE
0" 1"
BAR IS ONE INCH ON ORIGINAL DRAWING

Diamond Hill Park Improvements
Town of Cumberland
Cumberland, RI

Environmental Management
SEP 15 2020
Office of Water Resources

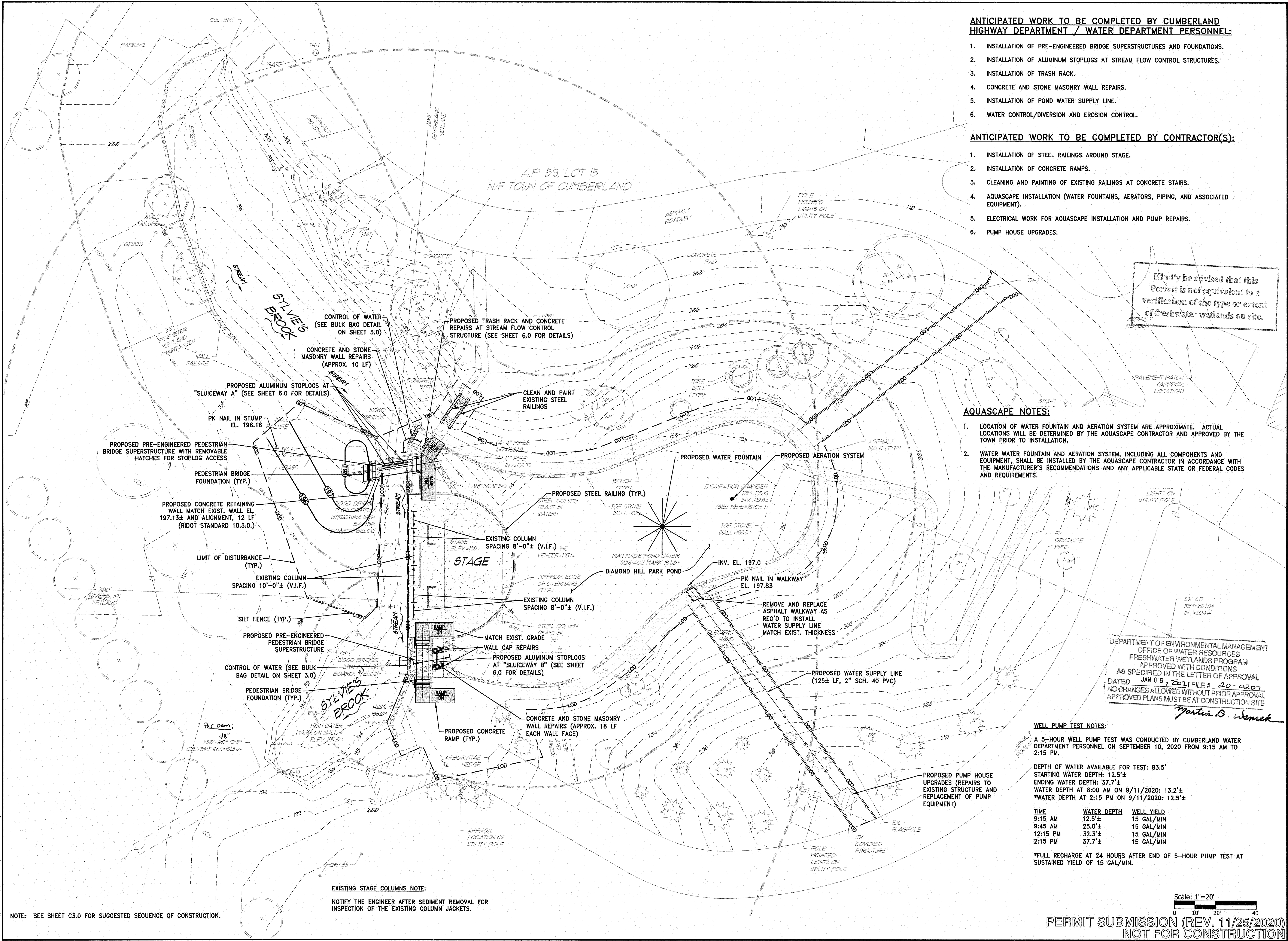
REVISIONS:

PROJECT NO.: 20039.00
DATE: SEPTEMBER 2020
SCALE:
DESIGNED BY: BJM
CHECKED BY: GNB
DRAWN BY: BJM
APPROVED BY: GNB
DRAWING TITLE:

NOTES

DRAWING NO.:
SHEET NO. 2 OF 8

PERMIT SUBMISSION
NOT FOR CONSTRUCTION



ANTICIPATED WORK TO BE COMPLETED BY CUMBERLAND HIGHWAY DEPARTMENT / WATER DEPARTMENT PERSONNEL:

1. INSTALLATION OF PRE-ENGINEERED BRIDGE SUPERSTRUCTURES AND FOUNDATIONS.
2. INSTALLATION OF ALUMINUM STOPLOGS AT STREAM FLOW CONTROL STRUCTURES.
3. INSTALLATION OF TRASH RACK.
4. CONCRETE AND STONE MASONRY WALL REPAIRS.
5. INSTALLATION OF POND WATER SUPPLY LINE.
6. WATER CONTROL/DIVERSION AND EROSION CONTROL.

ANTICIPATED WORK TO BE COMPLETED BY CONTRACTOR(S):

1. INSTALLATION OF STEEL RAILINGS AROUND STAGE.
2. INSTALLATION OF CONCRETE RAMPS.
3. CLEANING AND PAINTING OF EXISTING RAILINGS AT CONCRETE STAIRS.
4. AQUASCAPE INSTALLATION (WATER FOUNTAINS, AERATORS, PIPING, AND ASSOCIATED EQUIPMENT).
5. ELECTRICAL WORK FOR AQUASCAPE INSTALLATION AND PUMP REPAIRS.
6. PUMP HOUSE UPGRADES.

AQUASCAPE NOTES:

1. LOCATION OF WATER FOUNTAIN AND AERATION SYSTEM ARE APPROXIMATE. ACTUAL LOCATIONS WILL BE DETERMINED BY THE AQUASCAPE CONTRACTOR AND APPROVED BY THE TOWN PRIOR TO INSTALLATION.
2. WATER FOUNTAIN AND AERATION SYSTEM, INCLUDING ALL COMPONENTS AND EQUIPMENT, SHALL BE INSTALLED BY THE AQUASCAPE CONTRACTOR IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND ANY APPLICABLE STATE OR FEDERAL CODES AND REQUIREMENTS.

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WELL PUMP TEST NOTES:

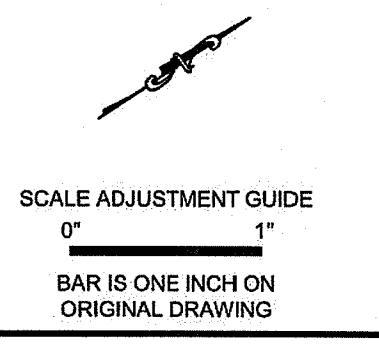
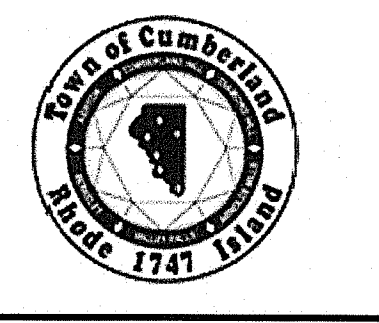
A 5-HOUR WELL PUMP TEST WAS CONDUCTED BY CUMBERLAND WATER DEPARTMENT PERSONNEL ON SEPTEMBER 10, 2020 FROM 9:15 AM TO 2:15 PM.

DEPTH OF WATER AVAILABLE FOR TEST: 83.5'
 STARTING WATER DEPTH: 12.5'±
 ENDING WATER DEPTH: 37.7'±
 WATER DEPTH AT 8:00 AM ON 9/11/2020: 13.2'±
 *WATER DEPTH AT 2:15 PM ON 9/11/2020: 12.5'±

TIME	WATER DEPTH	WELL YIELD
9:15 AM	12.5'±	15 GAL/MIN
9:45 AM	25.0'±	15 GAL/MIN
12:15 PM	32.3'±	15 GAL/MIN
2:15 PM	37.7'±	15 GAL/MIN

*FULL RECHARGE AT 24 HOURS AFTER END OF 5-HOUR PUMP TEST AT SUSTAINED YIELD OF 15 GAL/MIN.

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



**Diamond Hill Park Improvements
 Town of Cumberland
 Cumberland, RI**

Environmental Management
 NOV 30 2020
 Office of Water Resources

REVISIONS:

NO.	DESCRIPTION

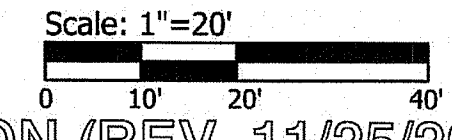
PROJECT NO.: 20039.00
 DATE: NOVEMBER 2020
 SCALE: 1"=20'
 DESIGNED BY: BJM
 CHECKED BY: GNB
 DRAWN BY: BJM
 APPROVED BY: GNB
 DRAWING TITLE:

GENERAL PLAN

DRAWING NO.: C4.0
 SHEET NO.: 5 OF 7

NOTE: SEE SHEET C3.0 FOR SUGGESTED SEQUENCE OF CONSTRUCTION.

EXISTING STAGE COLUMNS NOTE:
 NOTIFY THE ENGINEER AFTER SEDIMENT REMOVAL FOR INSPECTION OF THE EXISTING COLUMN JACKETS.



PERMIT SUBMISSION (REV. 11/25/2020)
 NOT FOR CONSTRUCTION

