

TOWN OF BRISTOL, RHODE ISLAND

CONTRACT DRAWINGS FOR

GOLF COURSE WATER QUALITY IMPROVEMENTS

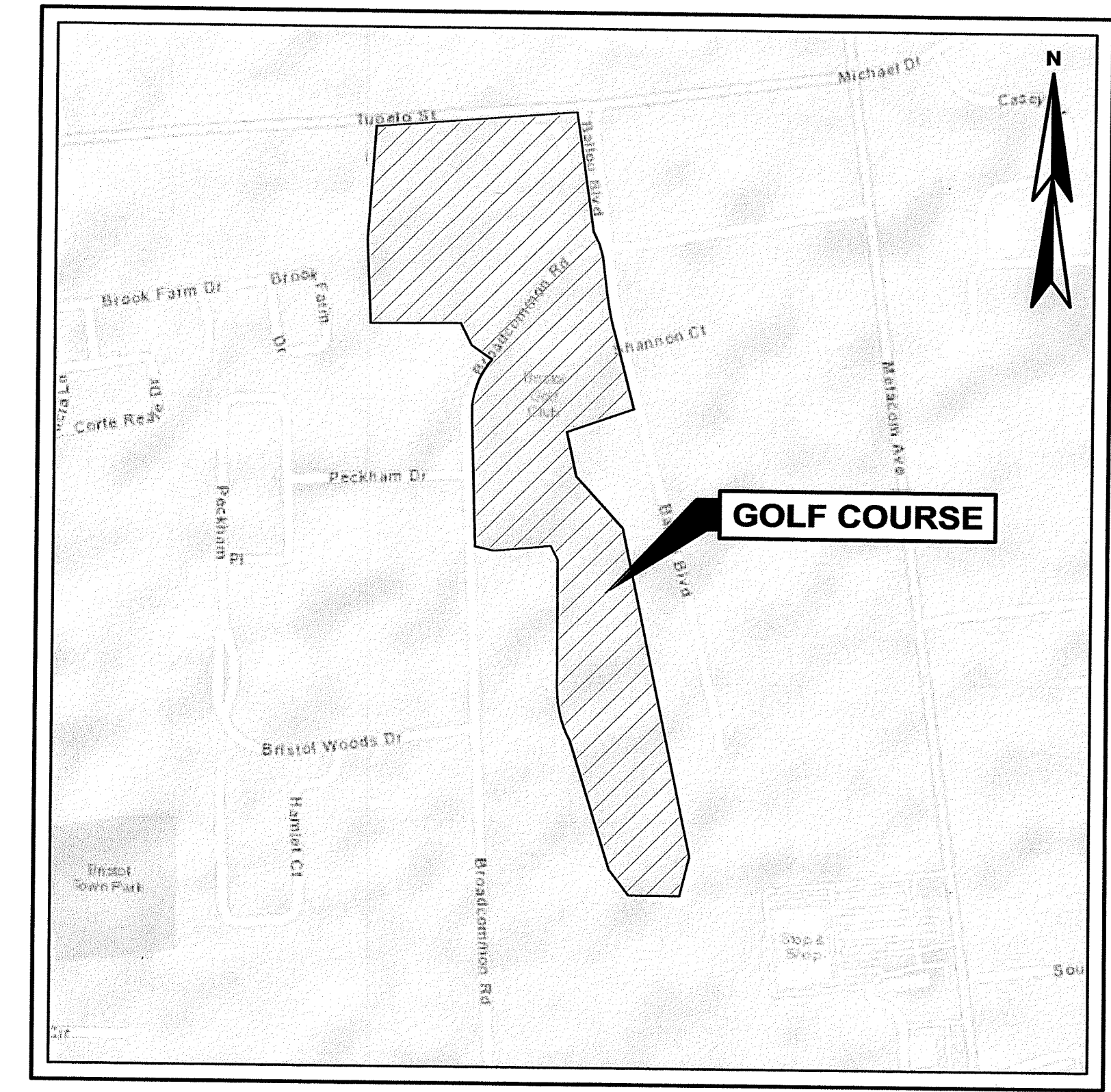
Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

JANUARY 2020
 REGULATORY REVIEW
 REVISED AUGUST 2020

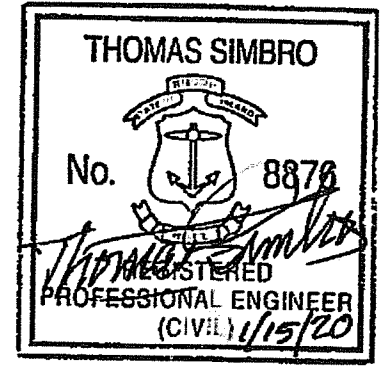


DRAWING INDEX

GENERAL	
-	COVER SHEET
CIVIL	
C-1	GENERAL NOTES, LEGEND AND ABBREVIATIONS
C-2	EXISTING CONDITIONS PLAN
C-3	PROPOSED GRADING PLAN I
C-4	PROPOSED GRADING PLAN II
C-5	PROPOSED GRADING PLAN III
C-6	PROPOSED GRADING ENLARGEMENT PLAN I
C-7	PROPOSED GRADING ENLARGEMENT PLAN II
C-8	PROPOSED GRADING ENLARGEMENT PLAN III
C-9	PROPOSED PLANTING PLAN I
C-10	PROPOSED PLANTING PLAN II
C-11	PROPOSED PLANTING PLAN III
C-12	PROPOSED RESTORATION PLAN I
C-13	PROPOSED RESTORATION PLAN II
C-14	PROPOSED RESTORATION PLAN III
C-15	PROPOSED DETAIL PLAN I
C-16	PROPOSED DETAIL PLAN II
C-17	PROPOSED DETAIL PLAN III
C-18	PROPOSED DETAIL PLAN IV



LOCATION PLAN
 SCALE: NTS



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED AUG 28 2020 FILE # 20-0030
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Environmental Management
 AUG 14 2020
 Office of Water Resources

WRIGHT-PIERCE 
 Engineering a Better Environment

888.621.8156 | www.wright-pierce.com



FOR REVIEW _____

FOR BIDDING _____

WP PROJECT No. 20198

GENERAL NOTES

- 1. THE CONTRACTOR IS REFERRED TO SECTION 01050 OF THE SPECIFICATIONS REGARDING COORDINATION WITH OTHERS, INCLUDING RESPONSIBILITIES AND RELATED COSTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE ADHERENCE TO ALL PROVISIONS AND REQUIREMENTS OF THE CONTRACT DOCUMENTS INCLUDING, BUT NOT LIMITED TO, THESE CONTRACT DRAWINGS, THE CONTRACT GENERAL REQUIREMENTS, SPECIAL CONDITIONS AND TECHNICAL SPECIFICATIONS, AND TO ALL PERMITS APPENDED THERE TO.
2. INFORMATION ABOUT EXISTING UTILITIES SHOWN ON THE DRAWINGS IS BASED ON THE BEST AVAILABLE DATA, IS APPROXIMATE ONLY, AND IS PROVIDED FOR REFERENCE ONLY. EXISTING UNDERGROUND UTILITIES ARE SHOWN AT ASSUMED ELEVATIONS TO ALERT THE CONTRACTOR OF THEIR PRESENCE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING THE EXACT ACTUAL LOCATION AND ELEVATION OF ALL EXISTING UTILITIES WITHIN THE CONTRACT LIMIT LINES.
3. PRIOR TO ANY EXCAVATION WORK, IT IS THE CONTRACTORS RESPONSIBILITY TO THOROUGHLY FAMILIARIZE HIMSELF WITH THE DETAILS OF THE PROJECT AREA. THIS FAMILIARIZATION SHALL INCLUDE COORDINATION WITH THE OWNER, ENGINEER AND CONTRACT OPERATOR'S PERSONNEL AND REVIEW OF RECORD DRAWINGS THAT MAY BE AVAILABLE. EXTREME CAUTION SHALL BE EXERCISED IN ALL EXCAVATIONS TO ENSURE THAT EXISTING UTILITIES AND STRUCTURES WITHIN THE CONTRACT LIMIT LINES ARE NOT DAMAGED.
4. BELOW GRADE UTILITY INFORMATION IS BASED ON INFORMATION AS PROVIDED ON RECORD DRAWINGS. LOCATION OF UTILITIES SHOWN IS ONLY APPROXIMATE AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL ASCERTAIN THE LOCATION AND SIZE OF EXISTING UTILITIES IN THE FIELD PRIOR TO COMMENCING WORK. REFER TO SPECIFICATION SECTION 01050. ADDITIONAL TEST PITS, BEYOND THOSE SHOWN, MAY BE REQUIRED. UTILITY CONTACTS ARE AS FOLLOWS:
ELECTRIC: NATIONAL GRID TEL: 1-800-322-3223
GAS: NATIONAL GRID TEL: 1-800-870-1664
DIG SAFE: 1-800-DIG-SAFE
SEWER: 1-401-253-8877
WATER: 1-401-245-2022
5. THE CONTRACTOR SHALL NOTIFY THE DIG SAFE CENTER (TEL NO. 1-888-344-7233) AT LEAST THREE BUSINESS DAYS PRIOR TO ANY EXCAVATION. ADDITIONAL INFORMATION OR CONTACT WITH DIGSAFE IS AVAILABLE @ WWW.DIGSAFE.COM
6. ALL WORK SHALL COMPLY WITH THE LATEST RHODE ISLAND STATE BUILDING AND LIFE SAFETY SUPPLEMENTS.
7. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ALL ON-SITE SAFETY FROM THE TIME CONSTRUCTION ACTIVITIES BEGIN UNTIL ALL WORK IS COMPLETED AND ACCEPTED BY THE OWNER. ALL WORK SHALL COMPLY WITH THE CURRENT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS.
8. CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE LOCATION AND ACTIVITIES OF HIS WORK FORCES WITH THE TOWN TO MINIMIZE INTERFERENCE WITH NORMAL TOWN OPERATIONS AND SPECIAL EVENTS.
9. ALL EXISTING SEWER AND STORM DRAIN LINES ENCOUNTERED DURING CONSTRUCTION ARE TO REMAIN IN SERVICE. ANY EXISTING SEWERS, STORM DRAIN LINES OR CULVERTS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER, EXCEPT WHEN IN DIRECT CONFLICT WITH THE NEW SEWER OR WHEN NOT SHOWN OR INDICATED.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL MATERIALS, LABOR, APPARATUS AND EQUIPMENT TO COMPLETE THE WORK AND FURNISH A COMPLETED JOB IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL GOVERNING AGENCIES HAVING LAWFUL JURISDICTION OVER THE WORK.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUPPORT AND PROTECTION OF ALL UTILITIES AND STRUCTURES DURING CONSTRUCTION.
12. DO NOT SCALE DRAWINGS UNLESS OTHERWISE NOTED. WRITTEN DIMENSIONS AND STATIONING SHALL PREVAIL.
13. CONTRACTOR TO NOTE THAT ALL EXISTING INFORMATION ON THE DRAWINGS IS SHOWN WITH A LIGHTER LINE WEIGHT AND INDICATED WITH A SLANTED TYPE TEXT.
14. THE OWNER WILL BE RESPONSIBLE FOR OBTAINING THE PERMITS LISTED IN THE SUPPLEMENTARY OR SPECIAL CONDITIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE FAMILIAR WITH THE APPLICABLE PROVISIONS OF EACH PERMIT AS THEY APPLY TO THE WORK AND TO ABIDE BY THOSE PROVISIONS DURING CONSTRUCTION. COPIES OF ALL OBTAINED PERMITS ARE AVAILABLE FOR REVIEW FROM THE OWNER. ALL OTHER PERMITS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
15. ALL TEST PITS SHALL BE EXCAVATED PRIOR TO CONSTRUCTION LAYOUT AND RESULTS REPORTED TO THE ENGINEER FOR REVIEW FOR CONFORMANCE TO THE PLANS. TEST PITS ARE REQUIRED WHERE SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL DETERMINE THE EXACT SIZE, TYPE, LOCATION, AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION BY DIGGING TEST PITS WHERE UTILITY INFORMATION IS QUESTIONABLE AND/OR CRITICAL.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREVENTION OF EROSION. ALL DISTURBED EARTH SURFACES ARE TO BE STABILIZED IN THE SHORTEST PRACTICAL TIME AND TEMPORARY EROSION CONTROL DEVICES SHALL BE EMPLOYED UNTIL SUCH TIME AS ADEQUATE SOIL STABILIZATION HAS BEEN ACHIEVED. TEMPORARY STORAGE OF EXCAVATED MATERIAL IS TO BE IN A MANNER THAT WILL MINIMIZE EROSION. THE CONTRACTOR SHALL DISPOSE OF UNSUITABLE EXCAVATED MATERIAL AT A SITE PROVIDED BY HIM WHICH IS IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL LAWS. MATERIALS AND METHODS USED FOR TEMPORARY EROSION CONTROL SHALL BE AS SPECIFIED BY THE RHODE ISLAND SOIL AND EROSION CONTROL HANDBOOK. REFER TO SPECIFICATION SECTION 02270 AND DRAWING C-11.
17. THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN PROPER SEDIMENT AND SOIL EROSION CONTROL DEVICES DURING ALL CONSTRUCTION ACTIVITIES THROUGHOUT THE ENTIRE PROJECT, AS REQUIRED BY THE CONTRACT DOCUMENTS AND ALL APPURTENANT CITY OR STATE (RIDEM, CRMC, ETC) REGULATIONS. ALL REQUIRED ENVIRONMENTAL CONTROLS SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL IMMEDIATELY PROVIDE UPON ORDER FROM THE ENGINEER, SUPPLEMENTAL PERMANENT AND/OR TEMPORARY SOIL EROSION CONTROL, AND/OR SEDIMENT CONTROL DEVICES. MATERIALS AND METHODS USED SHALL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. SUPPLEMENTAL MATERIALS AND METHODS SHALL BE THE CONTRACTOR'S RESPONSIBILITY, WITH THE ACKNOWLEDGEMENT OF THE ENGINEER.
18. THE CONTRACTOR SHALL SUBMIT PERIODIC REPORTS AND DETAILS AS MAY BE REQUIRED BY VARIOUS REGULATORY AGENCIES INCLUDING, BUT NOT LIMITED TO, THE RIDEM, AND ALL THE APPROPRIATE REGULATING AGENCIES.
19. THE CONTRACTOR SHALL MINIMIZE CLEARING OPERATIONS. CLEARING AND GRUBBING SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 02110. CLEARING LIMITS SHALL BE AS INDICATED ON THE DRAWINGS. ALL GRUBBINGS AND EXCESS EXCAVATED MATERIAL ARE THE PROPERTY OF THE CONTRACTOR AND WILL BE DISPOSED OF AT A SITE PROVIDED BY THE CONTRACTOR IN COMPLIANCE WITH ALL STATE AND LOCAL LAWS.
20. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TRAFFIC FLOW AT ALL TIMES. THE CONTRACTOR IS REQUIRED TO SUBMIT A TRAFFIC CONTROL PLAN TO THE OWNER PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH THE OWNER.
21. OPEN TRENCHES IN THE ROADWAY MUST BE BACKFILLED AT THE END OF THE WORKDAY. OPEN TRENCHES OUTSIDE OF THE ROADWAY MAY BE LEFT OPEN IF THE CONTRACTOR PROVIDES ADEQUATELY SAFE BARRICADING AND LIGHTS.
22. THE CONTRACTOR SHALL CONTROL DUST TO A TOLERABLE LIMIT AS OUTLINED IN SPECIFICATION SECTION 01562. THE CONTRACTOR SHALL NOT TRACK OR SPILL EARTH AND DEBRIS ON PUBLIC STREETS OUTSIDE THE PROJECT AREA. STREETS OPENED TO THE PUBLIC SHALL BE KEPT SWEEPED AND FREE OF DEBRIS.
23. CONTROL OF DUST USING WATER SHALL BE PROVIDED FOR ALL RAW SLOPES AND FOR ALL EARTH STOCKPILES AND EARTH PILED ALONG EXCAVATIONS AND SURFACES OF REFILLED TRENCHES. IN NO CASE SHALL EXCAVATED MATERIAL BE STOCKPILED ON PAVED SURFACES OR PLACED AT SUCH LOCATIONS WHERE THE MATERIAL CAN RUNOFF INTO INLAND WETLAND AREAS, WATERCOURSES OR ADJACENT PROPERTIES.
24. ALL ROAD AND PARKING AREA SURFACES SHALL PITCH 1/4 INCH PER FOOT MINIMUM UNLESS OTHERWISE NOTED. ALL VEGETATED AREAS ABOVE MEAN HIGH WATER ELEVATION THAT ARE EXCAVATED, FILLED OR OTHERWISE DISTURBED BY THE CONTRACTOR AND ARE NOT TO BE PAVED OR FILLED WITH RIPRAP SHALL BE LOAMED, GRADED, LIMED, FERTILIZED, SEEDED AND MULCHED AT NO ADDITIONAL EXPENSE TO THE OWNER.
25. SUITABLE EXCAVATED MATERIAL MAY BE INCORPORATED IN THE PROJECT, WITH EXCESS MATERIAL DISPOSED OF AT A LOCATION PROVIDED BY THE CONTRACTOR. THESE PROVISIONS SHALL IN NO WAY RELIEVE THE CONTRACTOR OF HIS OBLIGATIONS TO PROPERLY DISPOSE OF AND REPLACE ANY MATERIAL DETERMINED BY THE ENGINEER TO BE UNSUITABLE FOR BACKFILLING. THE CONTRACTOR SHALL DISPOSE OF UNSUITABLE AND EXCESS MATERIAL IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE CONTRACT DOCUMENTS.
26. EXCAVATION CLOSE TO EXISTING UTILITIES AND STRUCTURES SHOULD BE PERFORMED BY HAND TO DETERMINE THE EXACT UTILITY LOCATION BEFORE DRIVING PILES AND/OR SHEETING OR OTHER SOIL SUPPORT SYSTEMS OR BEFORE EXCAVATING BY BACKHOE OR SIMILAR EQUIPMENT.
27. WHEN EQUIPMENT AND/OR MATERIALS ARE BEING DELIVERED TO THE PROJECT, THE CONTRACTOR SHALL FURNISH SUCH FLAG PERSONS AS ARE NECESSARY FOR THE DIRECTION AND CONTROL OF TRAFFIC ON ROADWAYS, AT THE ENTRANCE TO THE CONSTRUCTION SITE FOR SUCH PERIODS OF TIME AS IS ORDERED BY THE ENGINEER OR OWNER. FLAGGERS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
28. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO PRE- CONSTRUCTION CONDITIONS.
29. DURING THE WORK PERFORMED UNDER THIS CONTRACT, IT IS ANTICIPATED THAT MULTIPLE EXCAVATIONS MAY BE OPEN COINCIDENTALLY. RESPONSIBILITY FOR PREVENTING FLOODING ENVIRONMENTAL OR MATERIAL DAMAGE, OR OTHER ADVERSE EVENTS RESULTANT FROM STORM WATER REROUTED DUE TO AN EXCAVATION, IS THE RESPONSIBILITY OF THE CONTRACTOR WORKING IN THE EXCAVATION; CLOSE SELF-COORDINATION PRIOR TO EXCAVATING, IS THEREFORE MANDATORY. RESPONSIBILITY FOR MAINTAINING THE SITE STORM WATER COLLECTION SYSTEM AND DRAINAGE PATTERNS, COMPLETE WITH ANTI-SILTATION PROVISIONS, COMPLIANCE WITH ENVIRONMENTAL CONCERNS, PROTECTING THE OWNERS EQUIPMENT AND FACILITIES, ETC., SHALL BE COORDINATED.
30. LAY DOWN AREAS FOR EQUIPMENT AND MATERIAL STORAGE, AND FOR EXCAVATED MATERIALS WILL BE DESIGNATED BY THE OWNER, ENGINEER AND/OR CONTRACTOR AND SHALL BE COORDINATED BY THE CONTRACTOR AND MAINTAINED AND RESTORED BY THE CONTRACTOR, AT NO ADDITIONAL COST TO THE OWNER.

SITE GRADING NOTES

- 1. ALL AREAS THAT ARE EXCAVATED, FILLED, OR OTHERWISE DISTURBED BY THE CONTRACTOR SHALL BE LOAMED, GRADED, LIMED, FERTILIZED, SEEDED AND MULCHED, UNLESS OTHERWISE NOTED. THE TOP 6 INCHES OF SOIL SHALL BE LOAM. REFER TO SPECIFICATION SECTION 02485, LANDSCAPING/LOAM AND SEED.
2. ALL STORM DRAINAGE INLETS SHALL BE PROTECTED BY HAY BALE FILTERS TO PREVENT ENTRY OF SEDIMENT FROM RUNOFF WATERS DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL COLLECTED SEDIMENT, AND THAT WHICH COLLECTS IN THE STORM DRAIN SYSTEM.
3. ALL CATCH BASINS, MANHOLES, VALVE PITS, VALVE BOXES AND OTHER BURIED FACILITIES WITH SURFACE ACCESS SHALL BE ADJUSTED TO MATCH FINAL GRADES, UNLESS OTHERWISE INDICATED.
4. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL DEBRIS AND EXCESS EXCAVATED MATERIAL FROM WITHIN THE CONSTRUCTION LIMIT OF WORK, TO A SUITABLE SITE PROVIDED BY THE CONTRACTOR, IN COMPLIANCE WITH ALL STATE AND LOCAL REGULATIONS. ANY EXCESS SUITABLE MATERIAL MAY REMAIN ON SITE AT THE REQUEST OF THE OWNER.
5. CONTRACTOR SHALL REMOVE AND REPLACE, OR REPAIR, ALL CURBS, SIDEWALKS, PAVEMENT AND OTHER ITEMS DAMAGED BY HIS CONSTRUCTION ACTIVITIES TO AT LEAST THEIR ORIGINAL CONDITION, TO THE SATISFACTION OF THE OWNER AND ENGINEER.
6. WHERE EXISTING PAVEMENT IS REMOVED AND REPLACED, MATCH EXISTING GRADES TO THE EXTENT POSSIBLE. COORDINATE FINE GRADING WITH THE ENGINEER.
7. ALL VALVE BOXES AND OTHER BURIED FACILITIES WITH SURFACE ACCESS SHALL BE ADJUSTED TO MATCH FINAL GRADES, UNLESS OTHERWISE INDICATED.
8. CONTRACTOR SHALL NOT TRACK OR SPILL EARTH, DEBRIS OR OTHER CONSTRUCTION MATERIAL ON PUBLIC OR PRIVATE STREETS AND PLANT DRIVES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE ASSOCIATED CLEAN UP.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR GRADING ALL AREAS TO DRAIN.
10. CONTRACTOR SHALL RE-USE OR DISPOSE OF EXCESS EXCAVATED MATERIAL WITHIN THE SITE LIMITS OR AN AREA DESIGNATED BY THE OWNER IF NOT ON SITE.

BASE PLAN NOTES

- 1. BASE PLAN AND MAPPING BASED ON TOPOGRAPHIC SURVEY COMPLETED BY NARRAGANSETT ENGINEERING INC., 3012 EAST MAIN ROAD, PORTSMOUTH, RI 02871, DATED 10/25/2014.
2. ALL ELEVATIONS REFER TO THE NAVD 88 DATUM. PROJECT BENCH MARKS ARE AS NOTED ON THE CIVIL DRAWINGS.
3. THE HORIZONTAL DATUM FOR THIS PROJECT IS THE RI3800 AND THE VERTICAL DATUM FOR THIS PROJECT IS THE NAVD 88 DATUM. THE PROJECT DATA IS FROM POST PROCESSED GPS.
4. ANY EXISTING UTILITIES SHOWN ON THIS PLAN WERE LOCATED FROM FIELD SURVEY INFORMATION AND RECORD DATA. THE SURVEYOR DOES NOT GUARANTEE THAT ALL EXISTING OR ABANDONED UTILITIES HAVE BEEN SHOWN ON THE PLANS AND DOES NOT WARRANT THAT UTILITIES ARE SHOWN IN THE EXACT LOCATION INDICATED.
5. THE PROPERTY LINES SHOWN ON THE PLANS WERE TAKEN FROM THE TAX ASSESSOR'S PLAT FROM THE TOWN OF BRISTOL AND ARE SHOWN APPROXIMATELY. THE PROPERTY LINES SHOWN ARE NOT THE RESULT OF A FIELD SURVEY BY NARRAGANSETT ENGINEERING INC.
6. THE TOPOGRAPHIC SURVEY USED FOR THE BASE MAPPING CONFORMS TO A CLASS 2 (T-2) TOPOGRAPHICAL AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS.

SITE LAYOUT NOTES

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT OF ALL PROPOSED WORK AS SHOWN ON THE DRAWINGS. THE ENGINEER WILL PROVIDE TWO POINTS THAT DEFINE THE HORIZONTAL CONTROL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THIS PROVIDED LAYOUT INFORMATION THROUGHOUT THE COURSE OF CONSTRUCTION. REPORT ANY LAYOUT DISCREPANCIES IMMEDIATELY TO THE ENGINEER.
2. REFER TO THE SITE LAYOUT DRAWINGS FOR LAYOUT OF THE PROPOSED WORK.
3. THE LOCATION AND LIMITS OF ALL ON-SITE WORK AND STORAGE AREAS SHALL BE REVIEWED/COORDINATED WITH, AND ACCEPTABLE TO, THE OWNER AND ENGINEER. THE CONTRACTOR SHALL LIMIT HIS ACTIVITIES TO THESE AREAS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RE-ESTABLISHING AND RESETTING ALL EXISTING PROPERTY MONUMENTATION DISTURBED BY HIS OPERATIONS. THIS WORK SHALL BE DONE BY A LAND SURVEYOR REGISTERED IN THE STATE OF RHODE ISLAND, AT NO ADDITIONAL COST TO THE OWNER.
5. WRITTEN DIMENSIONS SHALL PREVAIL. DO NOT SCALE DISTANCES FROM THE DRAWINGS. REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER.

NOTE PER DEM :

- A. The proposed stream relocation and construction of "swales" must be constructed in dry conditions. Where necessary water must be contained and diverted around the new watercourse location and reenter the watercourse beyond the work area. All constructed channels must be completely stabilized with vegetation prior to allowing waterflow within these channels.
B. Sequence of construction must be completed in such a manner that heavy machinery does not cross a created channel. This is a particular concern at the proposed site access north of the existing pump station as depicted on Sheets C-3 and C-6.
C. Improvements to the crossing south of "Irrigation Pond #2" must be limited to placement of the minimal amount of loam necessary to cover the existing culvert and then stabilizing the loam with a conservation seed mix.

CIVIL ABBREVIATIONS

Table with 2 columns: Abbreviation and Full Name. Includes entries like & DIA DIAMETER, BC BOTTOM OF CURB, BLDG BUILDING, etc.




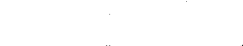








Vertical sidebar containing: SUBMISSIONS/REVISIONS table, DESIGNER/APP'D/NO. fields, THOMAS SIMBRO professional seal, WRIGHT-PIERCE logo and contact info, and TOWN OF BRISTOL GOLF COURSE WATER QUALITY IMPROVEMENTS BRISTOL, RI DRAWING C-1.

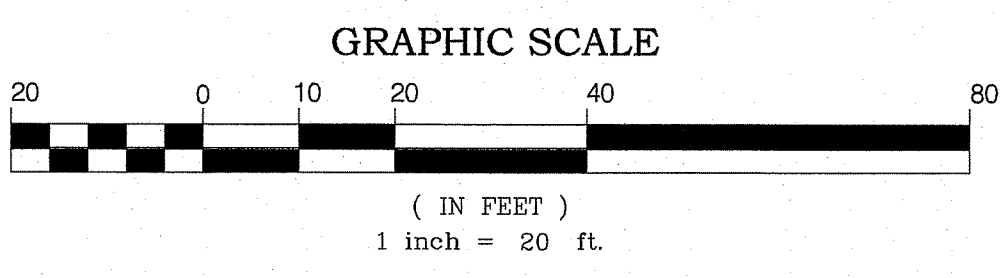
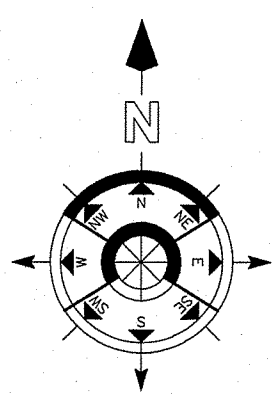
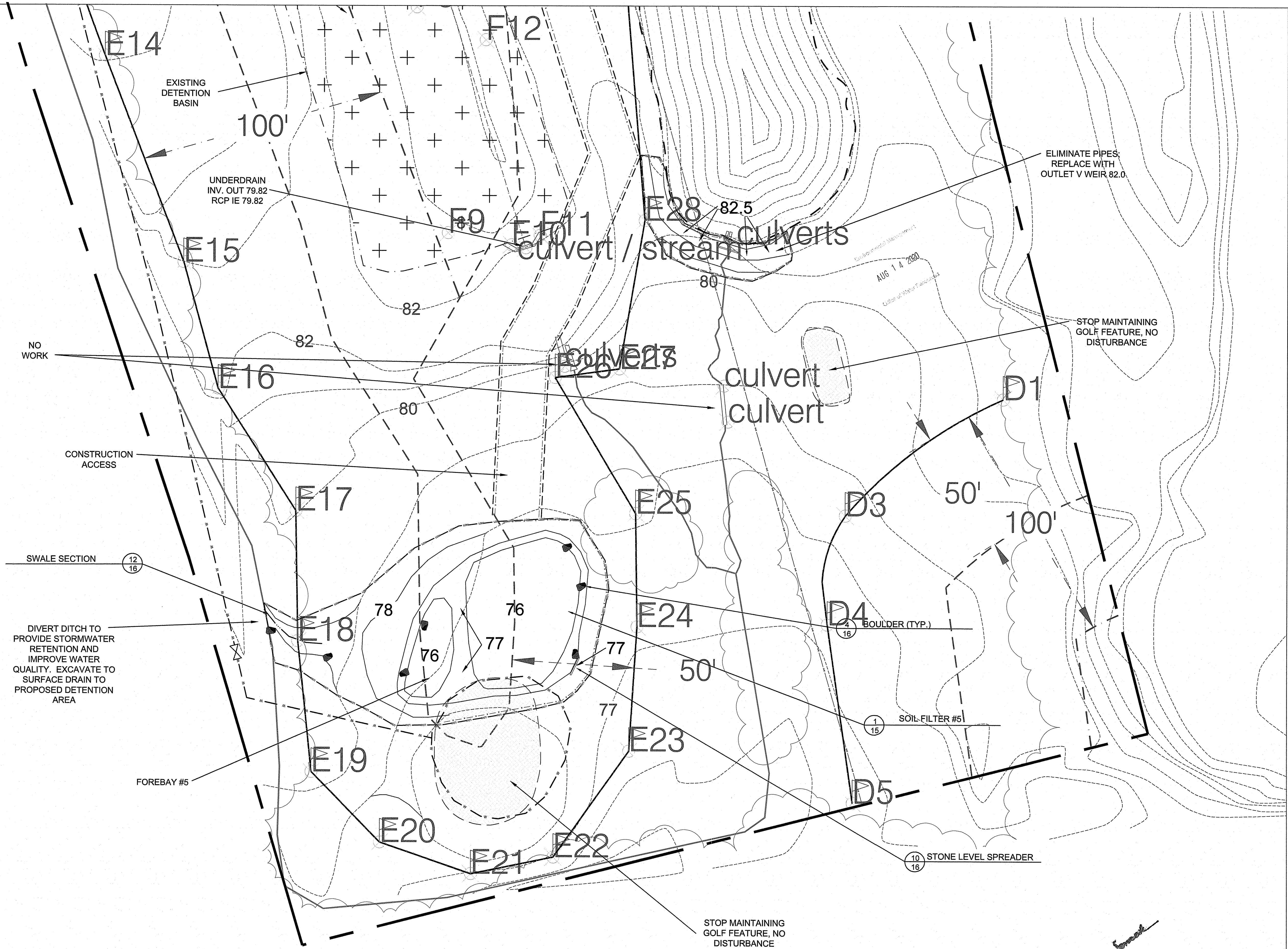
Environmental Management
AUG 14 2020
Office of Water Resources
APPROVED FOR CONSTRUCTION
DATE: AUG 29 2020 FILE # 20-0030
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

LAST SAVED BY: TIM 6/26/2020 11:30 AM

C:\USERS\TIM\DOCUMENTS\ACTIVE\BRISTOL GOLF COURSE\BRISTOL GOLF DEM 6-16.DWG | Grade: C | 1:1 | 16/26/2020 11:30:59 AM | TIM

GRADING LEGEND

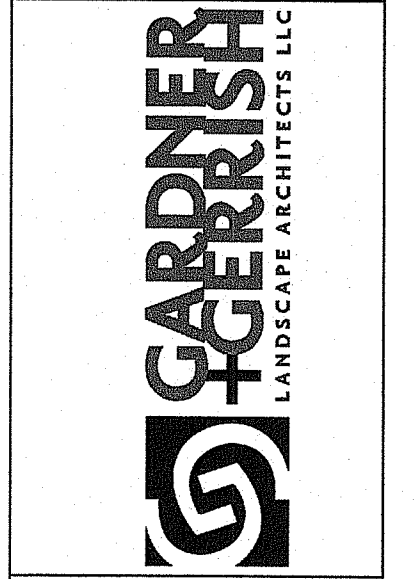
-  EXISTING CONTOUR
-  PROPOSED CONTOUR
-  SPOT GRADE
-  STRAW WATTLE
-  SWALE CHANNEL
-  FOREBAY
-  WETLAND
-  BOULDERS
-  CONSTRUCTION ACCESS
-  INTERMITTENT STREAM
-  ASSF
-  LIMIT OF WORK



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT /
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED AUG 28 2020 FILE # 20-0030
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

NO	SUBMISSIONS/REVISIONS	DATE
1	DEM COMMENTS 5-11-20	6/26/20
2		
3		
4		
5		
6		
7		
8		
9		
10		

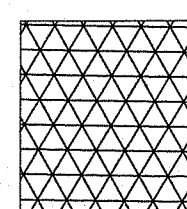
DESIGNED BY: T GER
CAD COORD: C CHIN
CHECKED BY: T SIM/T GER
DATE: 21 MAY 2020
APPROVED BY: T SIM/T GER
DATE: 21 MAY 2020
PROJECT NO.: 20198

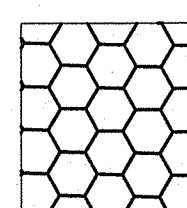


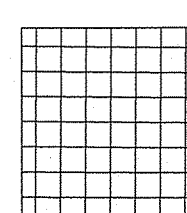
WRIGHT-PIERCE
Engineering a Better Environment
888.621.8156 | www.wright-pierce.com

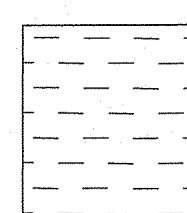
TOWN OF BRISTOL
GOLF COURSE WATER
QUALITY IMPROVEMENTS
BRISTOL, RI
DRAWING
C-8
PROPOSED GRADING ENLARGEMENT PLAN III


PLANTING LEGEND

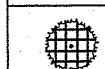



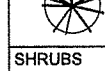
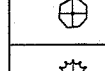
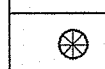

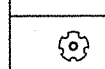
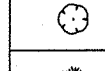
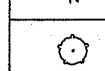
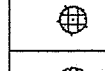
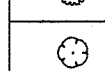





 BENTGRASS / LOW MOW BLUEGRASS SEED/SOD
APPROXIMATELY 29,860 SQ. FT.

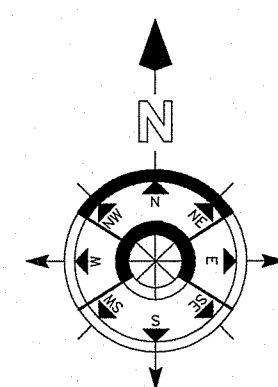
 PRIMARY ROUGH - BLUEGRASS/FESCUE/RYE SEED/SOD
APPROXIMATELY 86,790 SQ. FT.

 WET MEADOW SEED
APPROXIMATELY 61,422 SQ. FT.

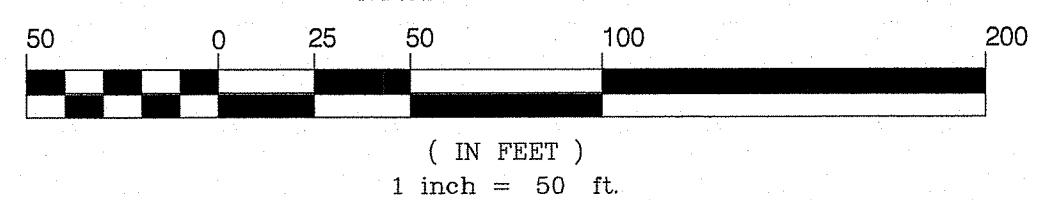
 UPLAND SEED
APPROXIMATELY 21,185 SQ. FT.

 LIMIT OF WORK

PLANT SCHEDULE									
TREES	QTY	BOTANICAL / COMMON NAME	CONT	CAL	SIZE	NATIVE	MATURE		
	50	<i>Juniperus virginiana</i> / Eastern Red Cedar	Whip		3'-4'	YES	40'-60'		
	5	<i>Liriodendron tulipifera</i> / Tulip Tree	Whip		3'-4'	YES	60'-80'		
	30	<i>Nyssa sylvatica</i> / Sour Gum	Whip		3'-4'	YES	40'-65'		
	25	<i>Pinus strobus</i> / White Pine	Whip		3'-4'	YES	50'-80'		
	5	<i>Quercus alba</i> / White Oak	Whip		3'-4'	YES	50'-80'		
SHRUBS	QTY	BOTANICAL / COMMON NAME	SIZE	HT.	NATIVE	MATURE	BLOOM	SPACING	
	153	<i>Azalea arborea</i> / Red Chokeberry	Plug	3'-4'	YES	6'-10'	SPRING	48" o.c.	
	256	<i>Clethra alnifolia</i> / Summersweet Clethra	Plug	2'-3'	YES	6'-8'	July	48" o.c.	
	87	<i>Cornus sericea</i> / Red Twig Dogwood	Plug	2'-3'	YES	6'-10'	WINTER	48" o.c.	
	251	<i>Ilex glabra</i> / Inkberry Holly	Plug	3'-4'	YES	6'-8'	June	48" o.c.	
	175	<i>Ilex verticillata</i> / Winterberry	Plug	3'-4'	YES	6'-10'	WINTER	48" o.c.	
	111	<i>Kalmia angustifolia</i> / Sheep Laurel	Plug	2'-3'	YES	2'-3'	June - July	36" o.c.	
	47	<i>Kalmia latifolia</i> / Mountain Laurel	Plug	3'-4'	YES	10'-15'	May - June	60" o.c.	
	271	<i>Myrica gale</i> / Sweetgale	Plug	2'-3'	YES	2'-3'	SPRING	36" o.c.	
	67	<i>Rhododendron maximum</i> / Rose Bay	Plug	2'-3'	YES	10'-15'	June	48" o.c.	
	191	<i>Spiraea latifolia</i> / Meadow-Sweet	Plug	2'-3'	YES	3'-4'	July - August	36" o.c.	
	164	<i>Spiraea tomentosa</i> / Stoeptibush	Plug	2'-3'	YES	3'-4'	July - Sept	36" o.c.	
	142	<i>Vaccinium corymbosum</i> / Highbush Blueberry	Plug	2'-3'	YES	10'-12'	May - June	48" o.c.	
	88	<i>Viburnum dentatum</i> / Viburnum	Plug	3'-4'	YES	10'-12'	May - June	48" o.c.	

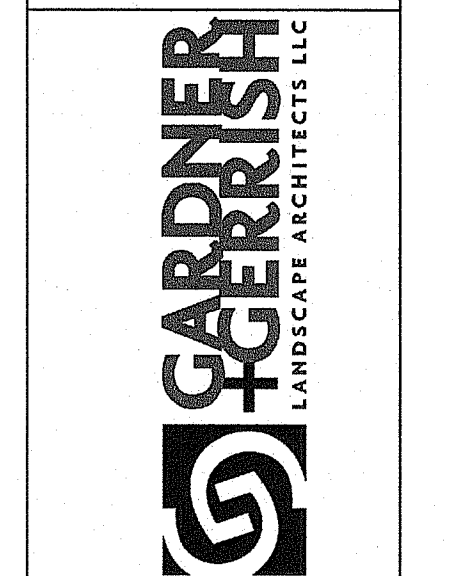


GRAPHIC SCALE



NO	T. GER	DATE
1	C. HIN	6/26/20
2	C. HIN/T. GER	
3	T. SIM/A.S. HUB	
4	T. SIM/T. GER	
5	T. SIM/T. GER	

DESIGNED BY: C. HIN
 CAD CORR: C. HIN/T. GER
 CHECKED BY: T. SIM/A.S. HUB
 DATE: 21 MAY 2020
 APPROVED BY: T. SIM/T. GER
 DATE: 21 MAY 2020
 PROJECT NO.: 20198

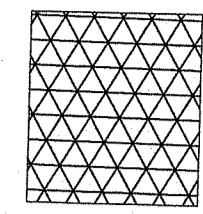


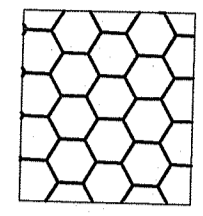
WRIGHT-PIERCE
 Engineering a Better Environment
 888.621.8156 | www.wright-pierce.com

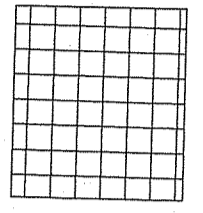
TOWN OF BRISTOL
 GOLF COURSE WATER
 QUALITY IMPROVEMENTS
 BRISTOL, RI
 PROPOSED PLANTING PLAN II
DRAWING
 C-10


DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 DIVISION OF WATER RESOURCES
 BRISTOL WATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SHOWN IN THE LETTER OF APPROVAL
 DATED AUG 28 2020 FILE # 20-0030
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

PLANTING LEGEND

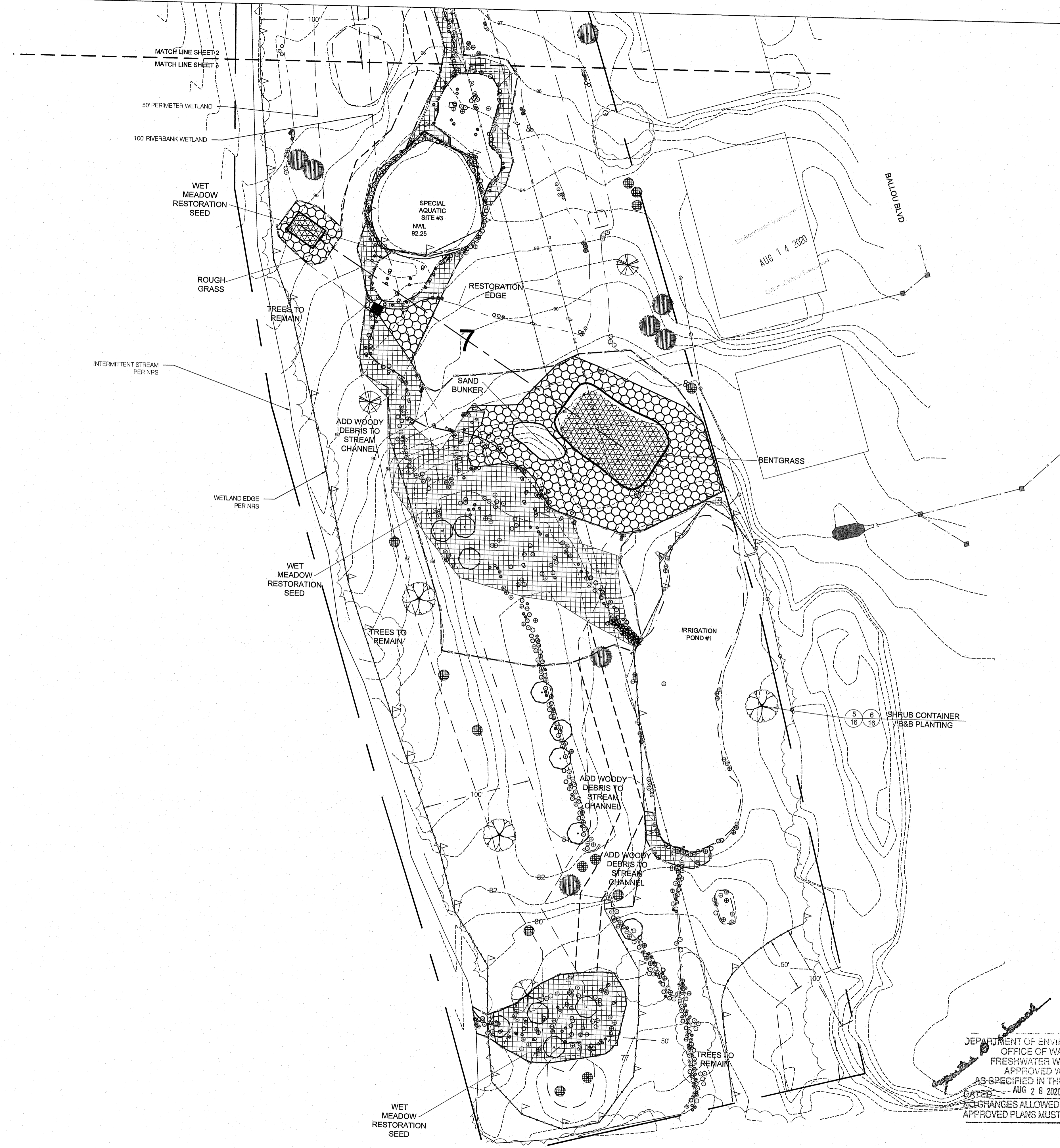
 BENTGRASS / LOW MOW BLUEGRASS SEED/SOD
APPROXIMATELY 29,860 SQ. FT.

 PRIMARY ROUGH - BLUEGRASS/FESCUE/RYE SEED/SOD
APPROXIMATELY 86,790 SQ. FT.





 WET MEADOW SEED
APPROXIMATELY 61,422 SQ. FT.

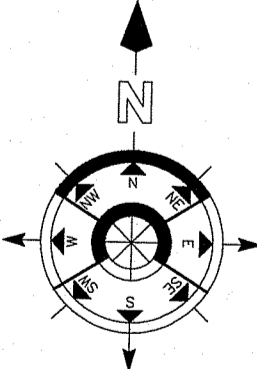
 UPLAND SEED
APPROXIMATELY 21,185 SQ. FT.

LIMIT OF WORK

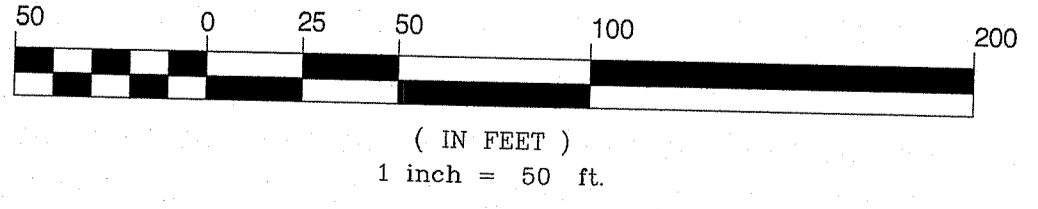


PLANT SCHEDULE

TREES	QTY	BOTANICAL / COMMON NAME	CONT	CAL	SIZE	NATIVE	MATURE	
	50	Juniperus virginiana / Eastern Red Cedar	Whip	3-4"	3-4'	YES	40' - 50'	
	5	Liriodendron tulipifera / Tulip Tree	Whip	3-4"	3-4'	YES	60' - 80'	
	30	Nyssa sylvatica / Sour Gum	Whip	3-4"	3-4'	YES	40' - 65'	
	25	Pinus strobus / White Pine	Whip	3-4"	3-4'	YES	50' - 80'	
	5	Quercus alba / White Oak	Whip	3-4"	3-4'	YES	50' - 80'	
SHRUBS	QTY	BOTANICAL / COMMON NAME	SIZE	HT.	NATIVE	MATURE	BLOOM	SPACING
	153	Aronia arbutifolia / Red Chokeberry	Plug	3-4"	YES	6-10'	SPRING	48" o.c.
	286	Clethra alnifolia / Summersweet Clethra	Plug	2-3"	YES	6-8'	JULY	48" o.c.
	87	Cornus sericea / Red Twig Dogwood	Plug	2-3"	YES	6-10'	WINTER	48" o.c.
	251	Ilex glabra / Inkberry Holly	Plug	3-4"	YES	6-8'	JUNE	48" o.c.
	175	Ilex verticillata / Winterberry	Plug	3-4"	YES	6-10'	WINTER	48" o.c.
	111	Kalmia angustifolia / Sheep Laurel	Plug	2-3"	YES	2-3'	JUNE - JULY	36" o.c.
	47	Kalmia latifolia / Mountain Laurel	Plug	3-4"	YES	10-15'	MAY - JUNE	60" o.c.
	271	Myrica gale / Sweetgale	Plug	2-3"	YES	2-3'	SPRING	36" o.c.
	67	Rhododendron maximum / Rose Bay	Plug	2-3"	YES	10-15'	JUNE	48" o.c.
	191	Spiraea latifolia / Meadow-Sweet	Plug	2-3"	YES	3-4'	JULY - AUGUST	36" o.c.
	164	Spiraea tomentosa / Stoebebush	Plug	2-3"	YES	3-4'	JULY - SEPT	36" o.c.
	142	Vaccinium corymbosum / Highbush Blueberry	Plug	2-3"	YES	10-12'	MAY - JUNE	48" o.c.
	98	Viburnum dentatum / Viburnum	Plug	3-4"	YES	10-12'	MAY - JUNE	48" o.c.

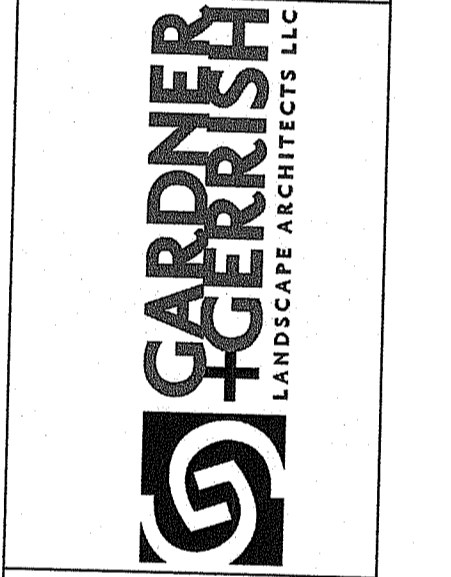


GRAPHIC SCALE



NO	DATE	DESCRIPTION
1	8/26/20	ISSUED FOR PERMITS
2	8/26/20	REVISIONS
3	8/26/20	REVISIONS
4	8/26/20	REVISIONS
5	8/26/20	REVISIONS
6	8/26/20	REVISIONS
7	8/26/20	REVISIONS
8	8/26/20	REVISIONS
9	8/26/20	REVISIONS
10	8/26/20	REVISIONS
11	8/26/20	REVISIONS
12	8/26/20	REVISIONS
13	8/26/20	REVISIONS
14	8/26/20	REVISIONS
15	8/26/20	REVISIONS
16	8/26/20	REVISIONS
17	8/26/20	REVISIONS
18	8/26/20	REVISIONS
19	8/26/20	REVISIONS
20	8/26/20	REVISIONS

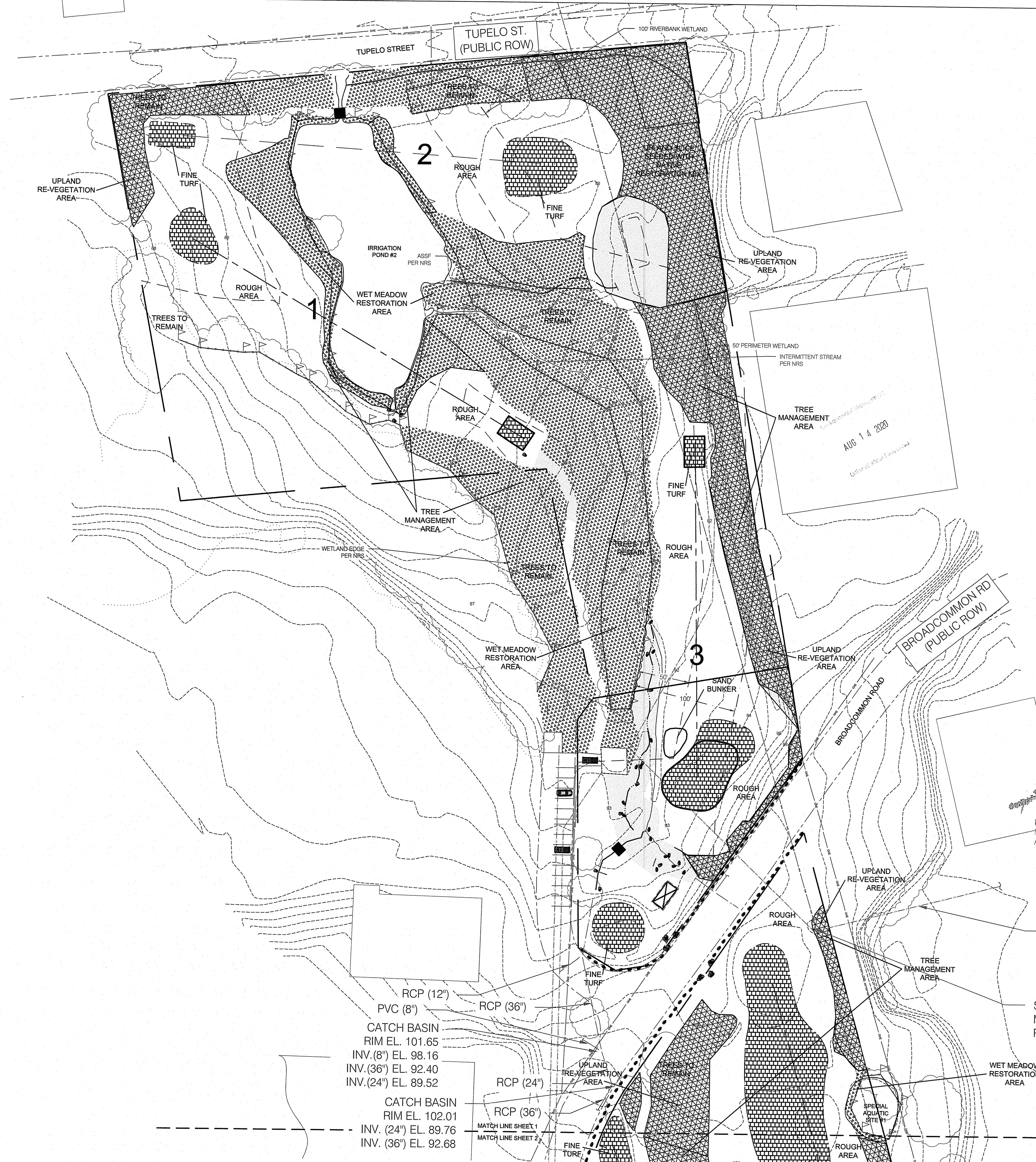
DESIGNED BY: T GER
CAD COORD: C HIN
CHECKED BY: T SIM/ S HUB
DATE: 21 MAY 2020
APPROVED BY: T SIM/ T GER
DATE: 21 MAY 2020
PROJECT NO: 20198



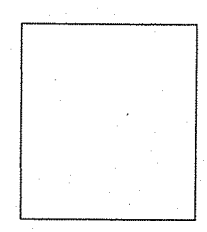
WRIGHT-PIERCE
Engineering a Better Environment
888.621.8156 | www.wright-pierce.com

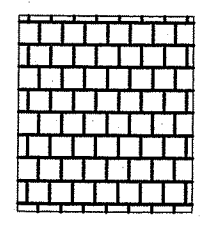
TOWN OF BRISTOL
GOLF COURSE WATER
QUALITY IMPROVEMENTS
BRISTOL, RI
PROPOSED PLANTING PLAN III
DRAWING
C-11

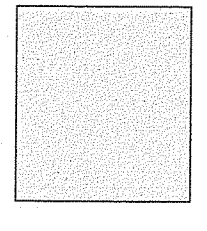
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED AUG 28 2020 FILE # 20-0030
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE




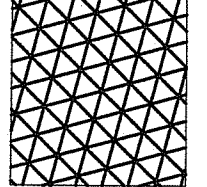
RESTORATION LEGEND

- 

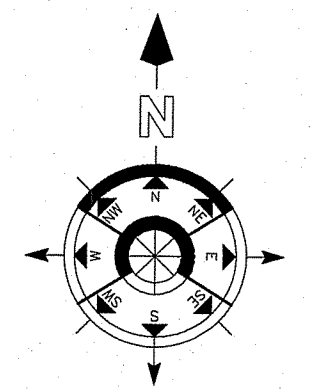
MOW 3X WEEK @ 2" (BLUE/FESCUE)
APPROXIMATELY 353,190 SQ. FT.
- 

MOW 5X A WEEK @ 0.1" (FINE TURF)
APPROXIMATELY 52,560 SQ. FT.
- 

TREE MANAGEMENT AREA
MOWING/MAINTAIN TWICE A YEAR @ 18"-3" (SECONDARY ROUGH)
APPROXIMATELY 198,410 SQ. FT.
- 

NO MOWING - ALLOW TO RE-VEGETATE - WET MEADOW
SLICE SEED WET MEADOW RESTORATION MIX
APPROXIMATELY 227,930 SQ. FT.
- 

NO MOWING - ALLOW TO RE-VEGETATE - UPLAND
SLICE SEED UPLAND RESTORATION MIX
APPROXIMATELY 170,615 SQ. FT.



GRAPHIC SCALE
(IN FEET)
1 inch = 50 ft.

RCP (12")
PVC (8")
CATCH BASIN
RIM EL. 101.65
INV. (8") EL. 98.16
INV. (36") EL. 92.40
INV. (24") EL. 89.52

RCP (24")
RCP (36")
CATCH BASIN
RIM EL. 102.01
INV. (24") EL. 89.76
INV. (36") EL. 92.68

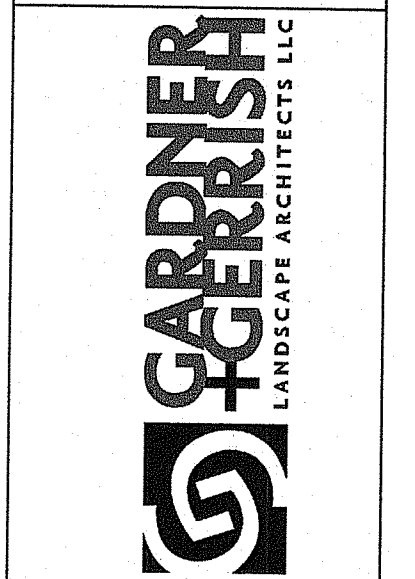
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED AUG 28 2020 FILE # 20-0030
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

ALL SUBSURFACE
SEWER INFORMATION
SHOWN PER PLAN REF. 4

SANITARY
MH STRUCTURE
RIM EL. 101.59

NO	DATE	DESCRIPTION
1	6/26/20	ISSUED FOR PERMITS
2		
3		
4		
5		
6		
7		
8		
9		
10		

DESIGNED BY: T GER
CAD COORD.: C HIN
CHECKED BY: T SIM/S HUB
DATE: 21 MAY 2020
APPROVED BY: T SIM/T GER
DATE: 21 MAY 2020
PROJECT NO.: 20198




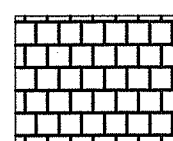
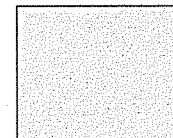
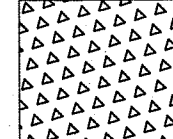
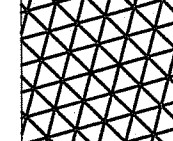
WRIGHT-PIERCE
Engineering a Better Environment
888.621.8156 | www.wright-pierce.com

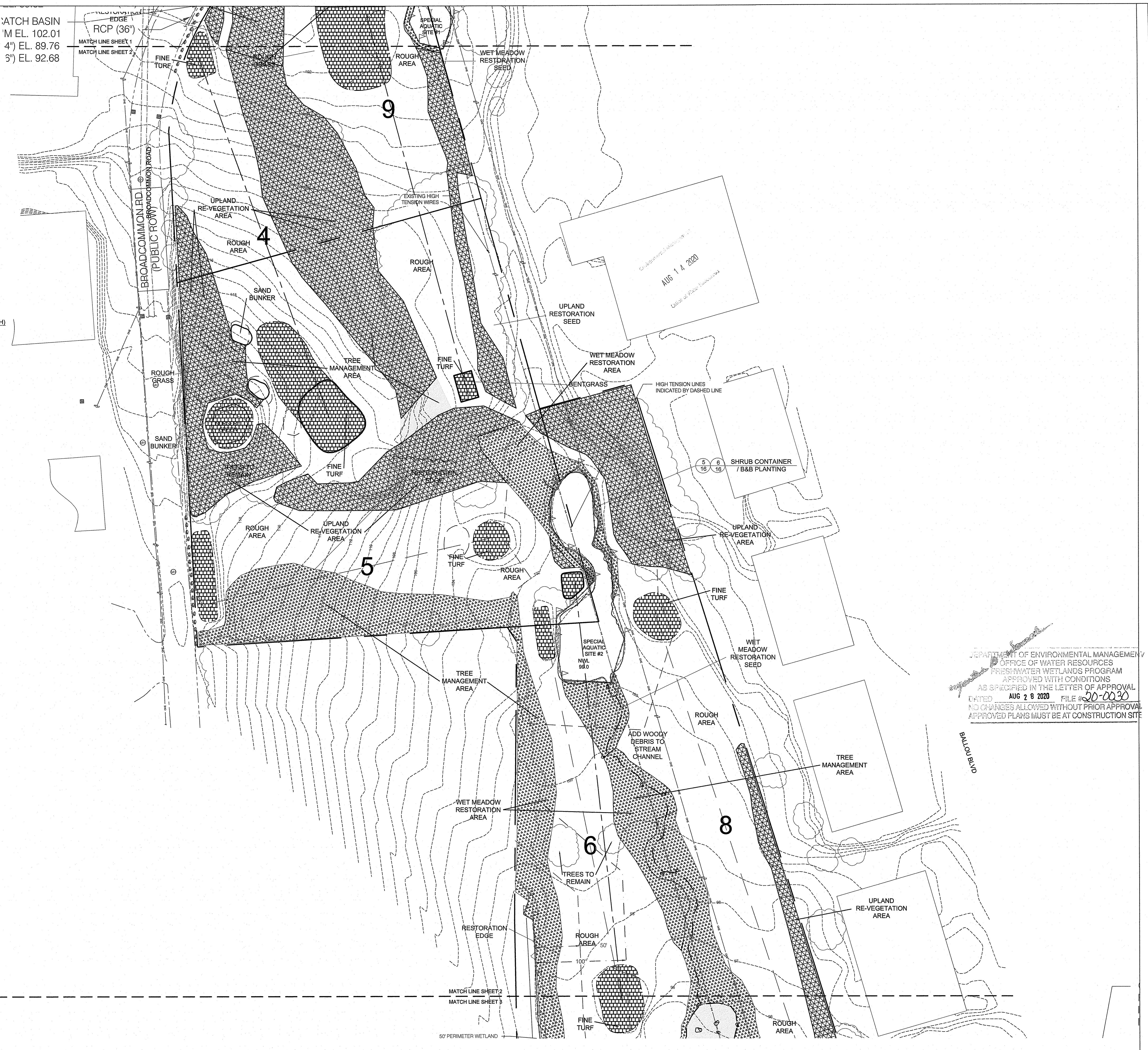
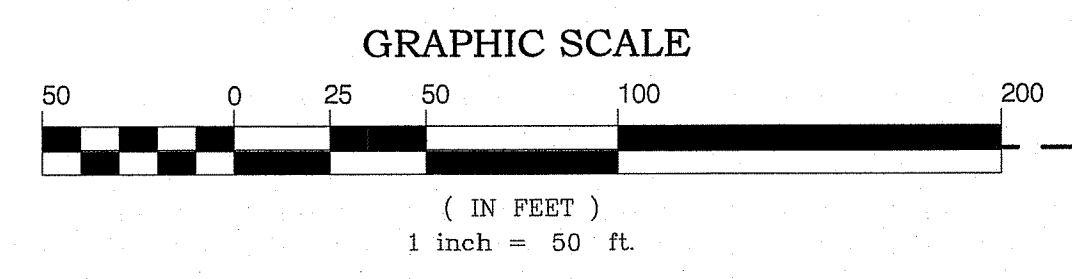
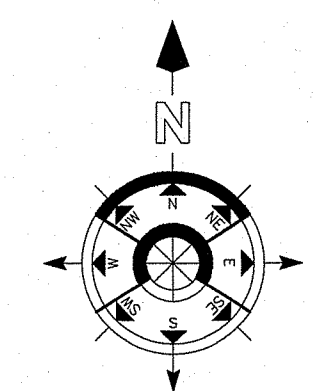
TOWN OF BRISTOL
GOLF COURSE WATER
QUALITY IMPROVEMENTS
BRISTOL, RI
PROPOSED RESTORATION PLAN I
DRAWING
C-12

LAST SAVED BY: TIM 6/26/2020 11:53 AM
 C:\USER\TIM\DOCUMENTS\G-6\ACTIVE\BRISTOL GOLF\BRISTOL GOLF DBM 6-16.DWG [Res: 2 | 1:1] --- | 6/26/2020 11:53:08 AM | TIM

MATCH BASIN
 1) M EL. 102.01
 4) EL. 89.76
 3) EL. 92.68

RESTORATION LEGEND

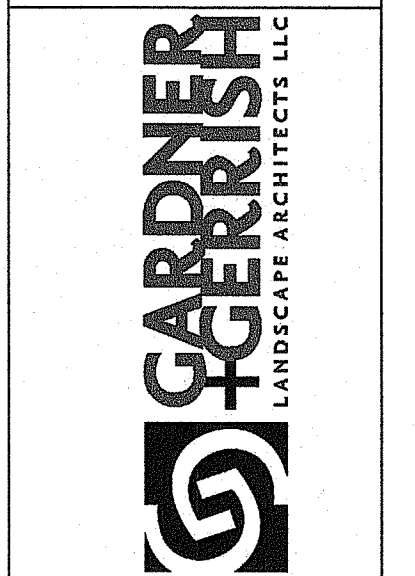
- 
 MOW 3X WEEK @ 2" (BLUE/FESCUE)
 APPROXIMATELY 353,190 SQ. FT.
- 
 MOW 5X A WEEK @ 0.1" (FINE TURF)
 APPROXIMATELY 52,560 SQ. FT.
- 
 TREE MANAGEMENT AREA
 MOWING/MAINTAIN TWICE A YEAR @ 18" 3" (SECONDARY ROUGH)
 APPROXIMATELY 198,410 SQ. FT.
- 
 NO MOWING - ALLOW TO RE-VEGETATE - WET MEADOW
 SLICE SEED WET MEADOW RESTORATION MIX
 APPROXIMATELY 227,930 SQ. FT.
- 
 NO MOWING - ALLOW TO RE-VEGETATE - UPLAND
 SLICE SEED UPLAND RESTORATION MIX
 APPROXIMATELY 170,615 SQ. FT.



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED **AUG 28 2020** FILE # **20-0030**
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

NO	DATE	DESCRIPTION
1	6/25/20	ISSUED FOR PERMIT
2		
3		
4		
5		
6		
7		
8		
9		
10		

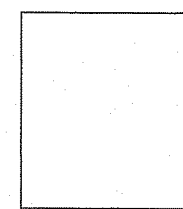
DESIGNED BY: T GER
 CAD COORD: C HIN
 CAD: C HIN/T GER
 CHECKED BY: T SIM/3 HUB
 DATE: 21 MAY 2020
 APPROVED BY: T SIM/1 GER
 DATE: 21 MAY 2020
 PROJECT NO.: 20198

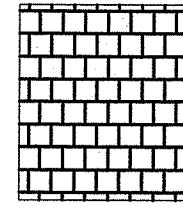


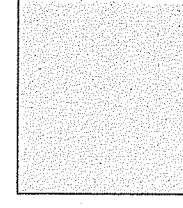
WRIGHT-PIERCE
 Engineering a Better Environment
 888.621.8156 | www.wright-pierce.com

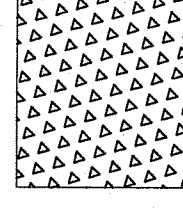
TOWN OF BRISTOL
 GOLF COURSE WATER
 QUALITY IMPROVEMENTS
 BRISTOL, RI
 PROPOSED RESTORATION PLAN II
DRAWING
 C-13

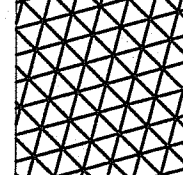
RESTORATION LEGEND

- 

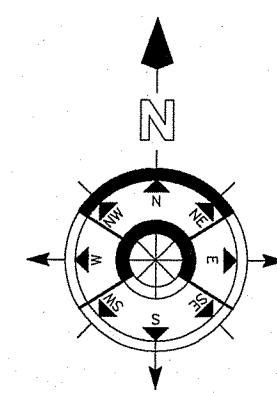
MOW 3X WEEK @ 2" (BLUE/FESCUE)
APPROXIMATELY 353,190 SQ. FT.
- 

MOW 5X A WEEK @ 0.1" (FINE TURF)
APPROXIMATELY 52,560 SQ. FT.
- 

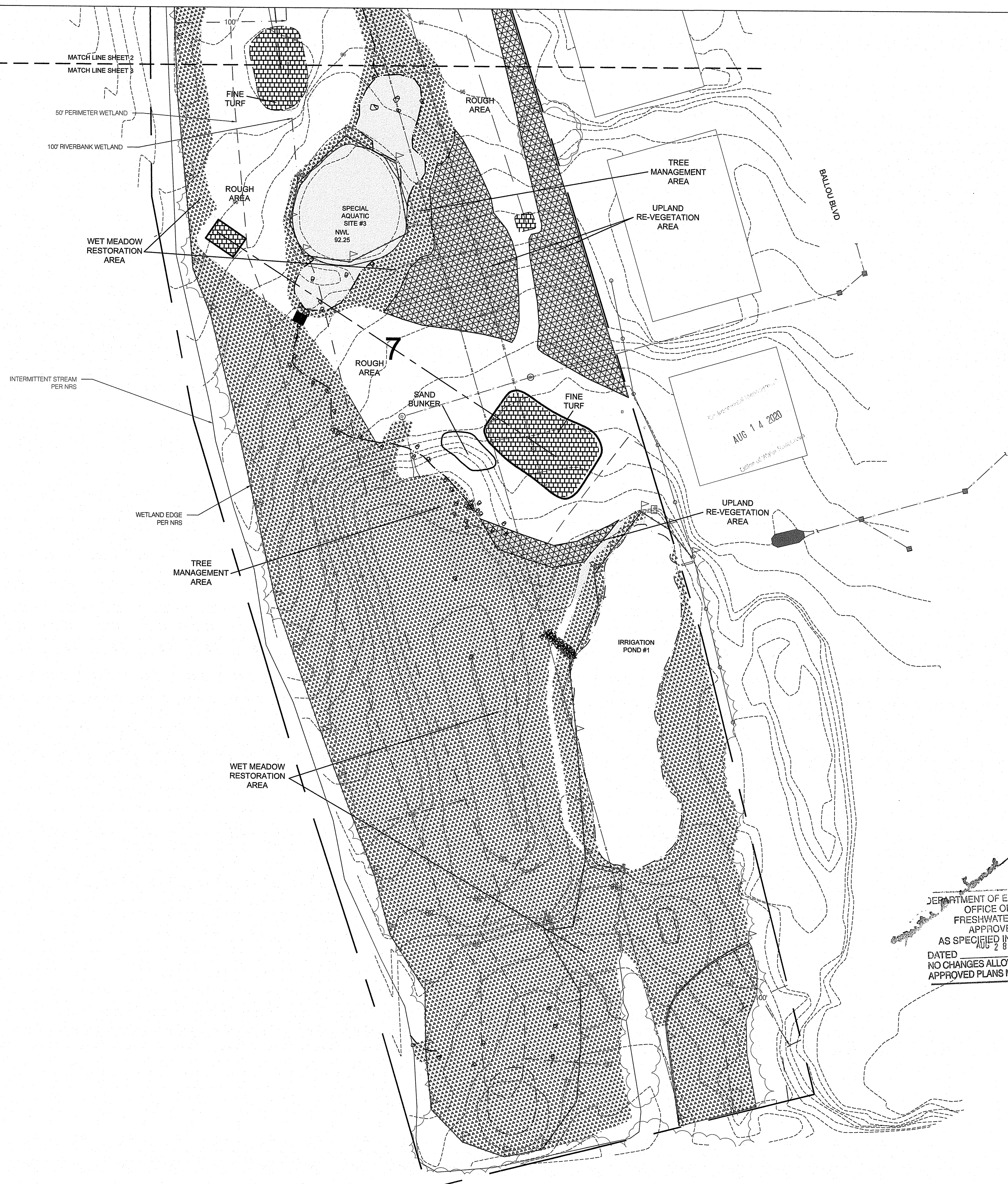
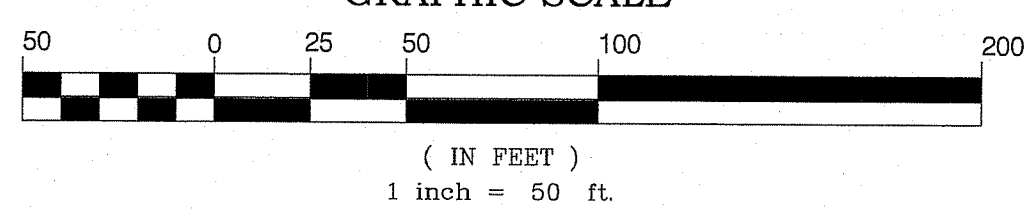
TREE MANAGEMENT AREA
MOWING/MAINTAIN TWICE A YEAR @ 18"-3" (SECONDARY ROUGH)
APPROXIMATELY 198,410 SQ. FT.
- 

NO MOWING - ALLOW TO RE-VEGETATE - WET MEADOW
SLICE SEED WET MEADOW RESTORATION MIX
APPROXIMATELY 227,930 SQ. FT.
- 

NO MOWING - ALLOW TO RE-VEGETATE - UPLAND
SLICE SEED UPLAND RESTORATION MIX
APPROXIMATELY 170,615 SQ. FT.




GRAPHIC SCALE



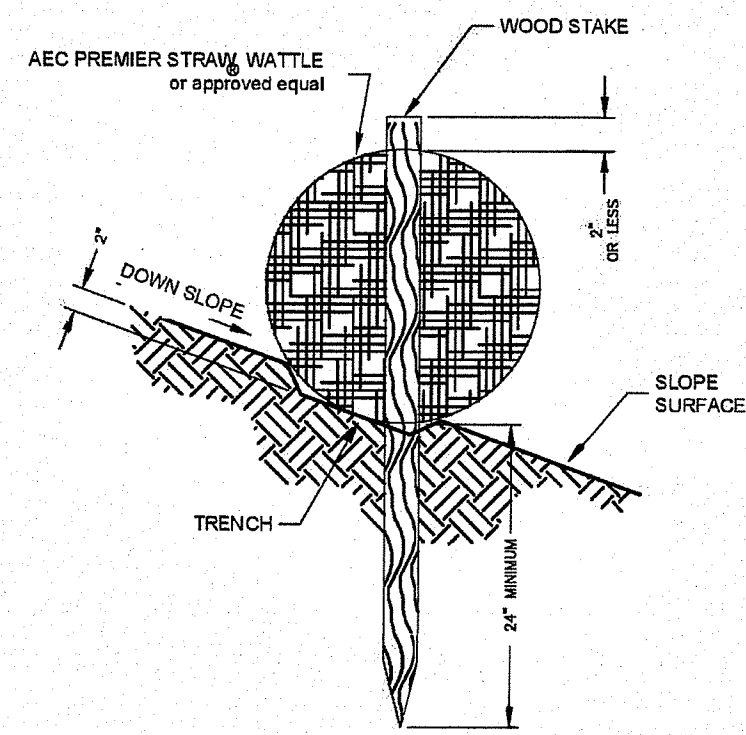
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED AUG 28 2020 FILE # 20-0030
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

SUBMISSIONS/REVISIONS		APP'D	DATE
NO	DESCRIPTION		
1	DEM COMMENTS 5-11-20		6/26/20
2			
3			
4			
5			
6			
7			
8			
9			
10			

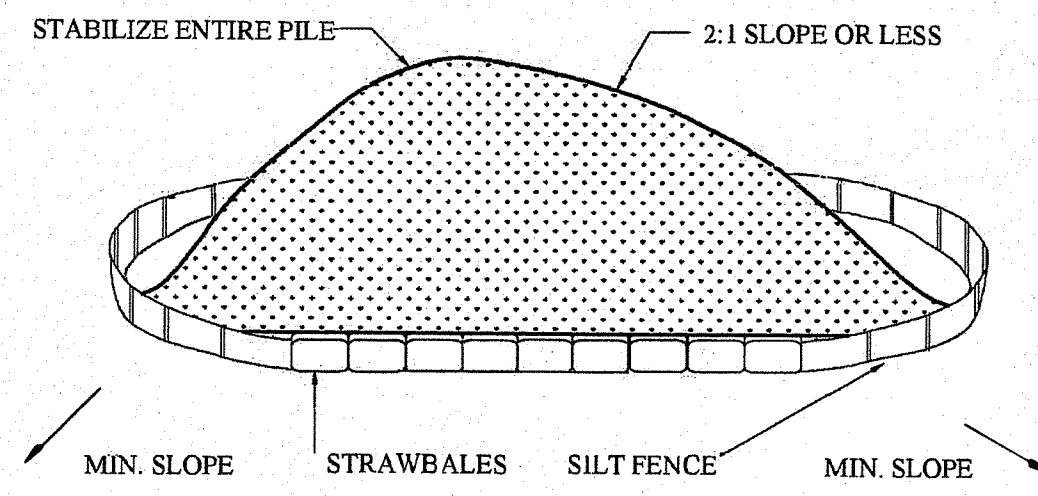
DESIGNED BY: T GER	CAD COORD: C HIN	CHECKED BY: T SIM/S HUB	DATE: 21 MAY 2020	APPROVED BY: T SIM/T GER	DATE: 21 MAY 2020	PROJECT NO.: 20198
CAD: C HIN/L GER	CHECKED BY: T SIM/S HUB	DATE: 21 MAY 2020	APPROVED BY: T SIM/T GER	DATE: 21 MAY 2020	PROJECT NO.: 20198	

	WRIGHT-PIERCE Engineering a Better Environment 888.621.8156 www.wright-pierce.com
DRAWING	
C-14	

WATTLES ARE INSTALLED PERPENDICULAR TO THE SLOPE OR DIRECTION OF FLOW.
WOOD STAKE PLACED WITHIN 2' OF END OF WATTLE, THEN ANOTHER 2' AND THEN CONTINUOUSLY 4' O.C.
WHEN JOINING TWO WATTLES, TIGHTLY ABUT BOTH ENDS, TIE THE ENDS TOGETHER USING HEAVY TWINE OR PLASTIC LOCKING TIES.
LAST 2' OF WATTLES SHALL BE TURNED UPHILL.



1 TYPICAL 9" STRAW WATTLE NO SCALE



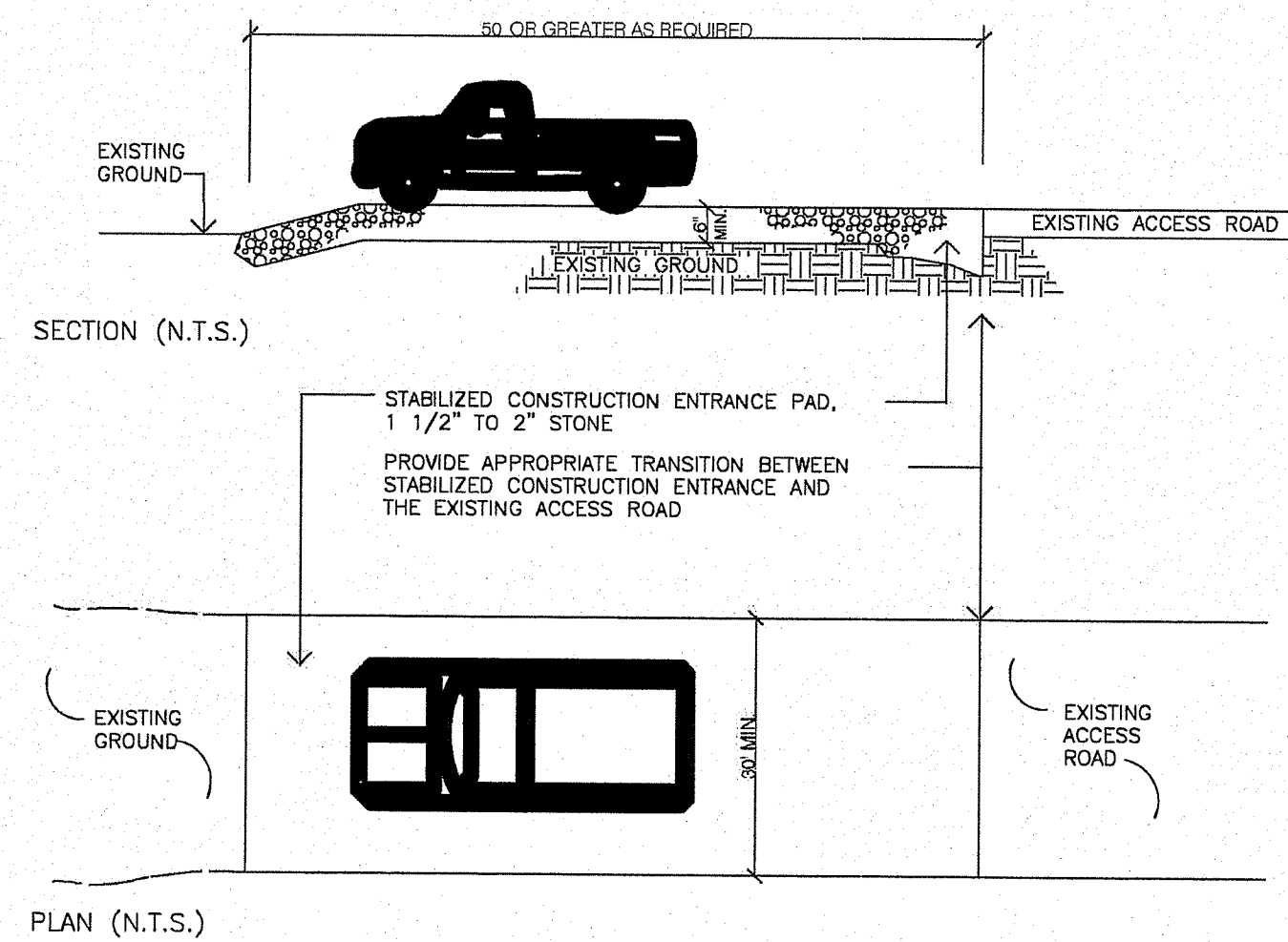
To be used where topsoil is necessary for regrading and vegetating disturbed areas. Topsoil is applied to subsoils that are draughty (having low available moisture for plants), stony, sandy, having low permeability, or are extremely acid. It is also used to backfill around shrub and tree transplants. Preservation of existing topsoil is beneficial for all types of lawn or ornamental plantings.
Temporary stockpile stabilization measures include vegetative cover, mulch, non-vegetative cover and peripheral sediment trapping barriers. The stabilization measure(s) selected should be appropriate for the time of year, site conditions and required period of use.

SEE GRADING PLAN FOR LOCATIONS.

INSTALLATION NOTES:

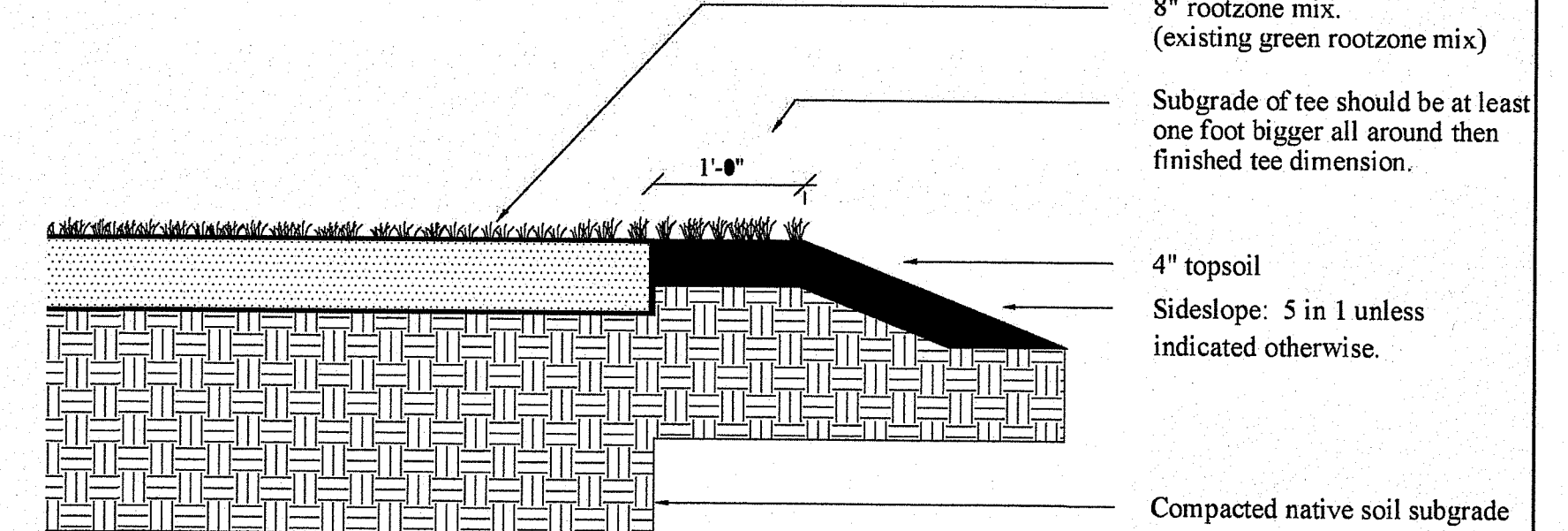
1. Area chosen for stockpiling operations shall be dry and stable
2. Maximum slope of stockpile shall be 1:2
3. Upon completion of soil stockpiling, each pile shall be surrounded with either silt fencing or strawbales, then stabilized with vegetation or covered.

2 SOIL STOCKPILING NO SCALE



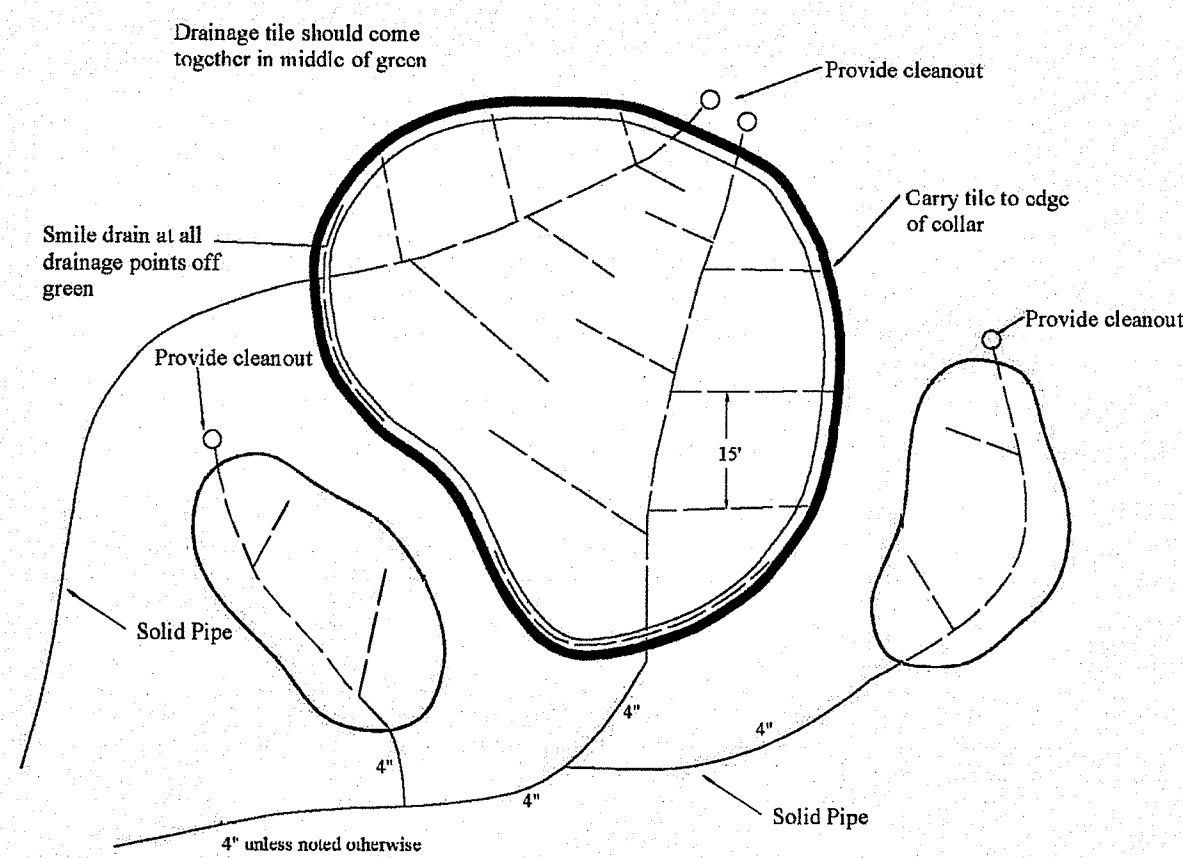
3 STABILIZED CONSTRUCTION ENTRANCE NO SCALE (IF NECESSARY)

All tee surfaces shall slope at 1%. Direction of slope indicated on detailed tee plans. Carry topmix to edge of slope at drainage point to allow for drainage.



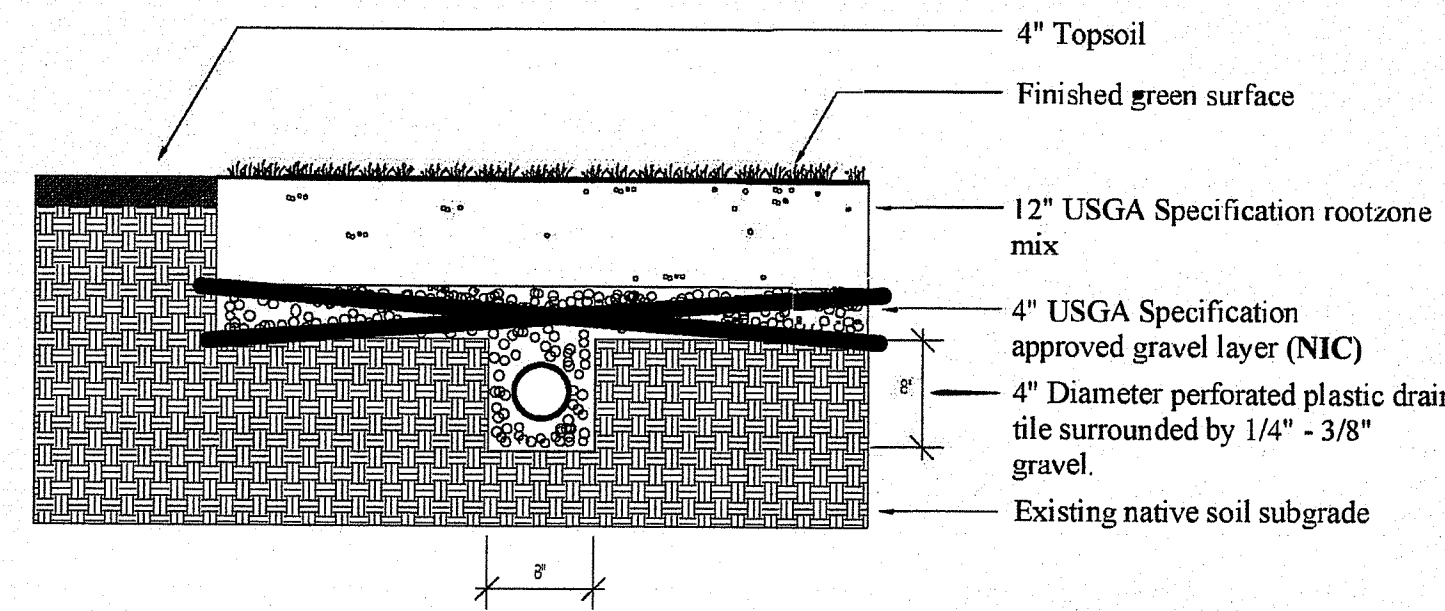
NOTE: At least one tee per hole shall have a side slope no greater than 1' in 12' to meet ADA accessibility requirements.

4 TEE DETAIL SECTION NO SCALE



NOTE:
Outlet to daylight 60' into rough, water or other drain line.
2" Plastic tile perforated within bunker, non-perforated to outlet.
Connect green side bunker drains into green outlet where possible.

5 TYPICAL GREEN COMPLEX UNDERDRAIN PLAN NO SCALE



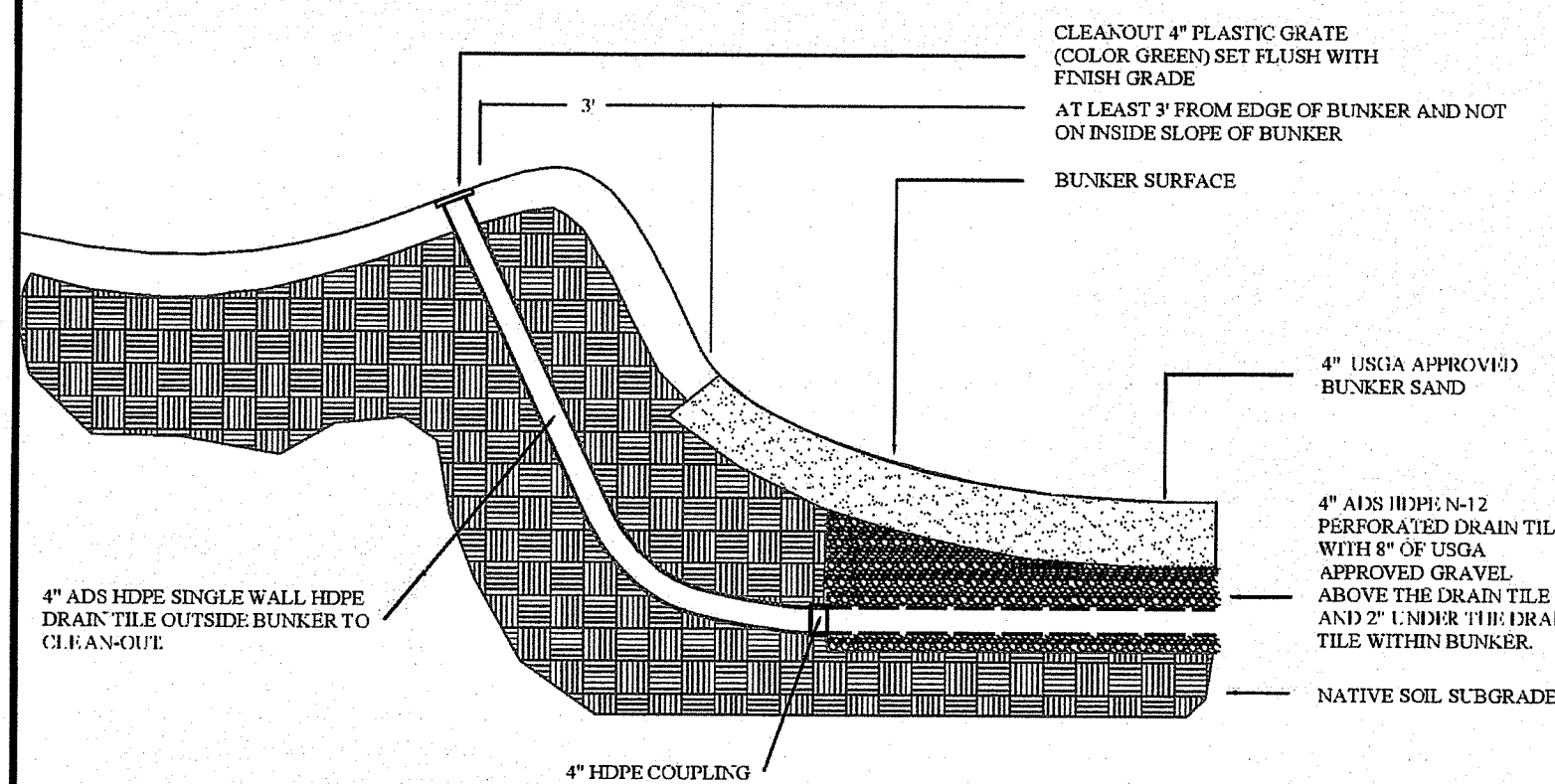
6 GREEN PROFILE NO SCALE

GENERAL NOTES NOTES:

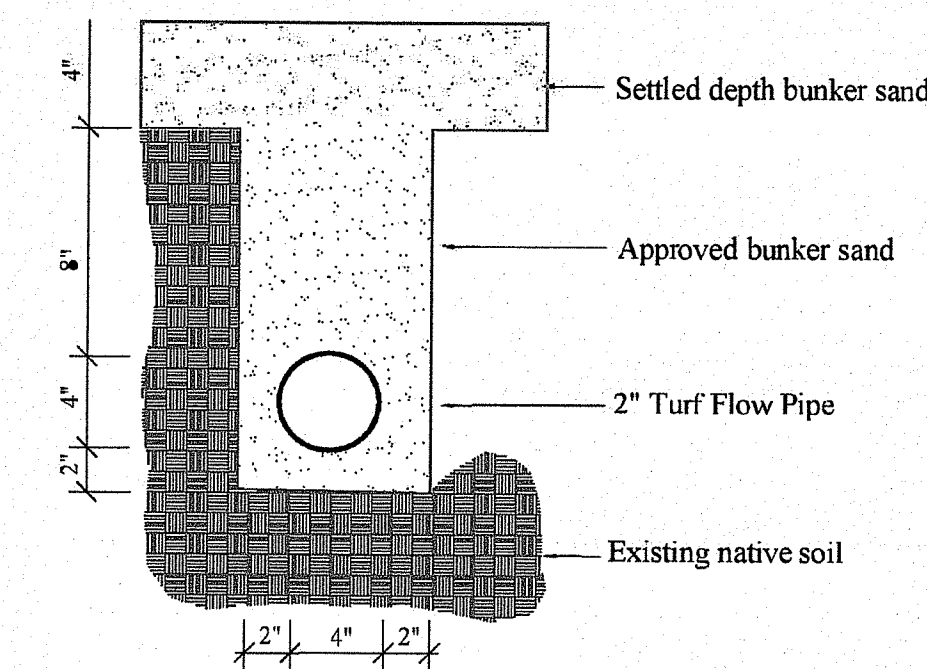
1. ALL DISTURBED AREAS SHALL BE REPLACED IN KIND UNLESS OTHERWISE SHOWN.
2. THE DRAINAGE SYSTEM SHALL BE CLEANED BY THE CONTRACTOR PRIOR TO ACCEPTANCE OF THE PROJECT AT NO ADDITIONAL COST.
3. FOR ALL EXCAVATION AND PLACEMENT OF FILL, THE CONTRACTOR SHALL PERFORM THE WORK IN FULL COMPLIANCE WITH THE RHODE ISLAND STANDARD SPECIFICATION SECTION.
4. IN ADDITION TO THE CONTRACT DOCUMENT, SPECIFICATIONS TO GOVERN THIS PROJECT ARE RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 1997 EDITION INCLUDING ALL REVISIONS AND SUPPLEMENTAL SPECIFICATIONS. STANDARD DETAILS FOR THIS PROJECT ARE RHODE ISLAND STANDARD DETAILS.
5. WORK SHOWN ON THE PLANS FOR WHICH THERE ARE NO PARTICULAR DETAILS, "CALL-OUTS", OR SPECIFICATIONS DOES NOT RELIEVE THE CONTRACTOR FROM FURNISHING AND INSTALLING THE WORK. THE CONTRACTOR SHALL THOROUGHLY EXAMINE DETAILS, THE CONTRACT DOCUMENTS AND PLANS AND INSPECT THE SITE, AND THE BID PRICE SHALL INCLUDE ALL SERVICES AND MATERIALS NECESSARY TO COMPLETE THE PROJECT. ANY CHANGES TO THE PROJECT OR THE INSTALLATION OF AN ITEM FOR WHICH NO PARTICULAR DETAIL OR SPECIFICATION WAS PROVIDED MUST BE REVIEWED BY AND MUST BE ACCEPTABLE TO THE ENGINEER.
6. DRAIN LINES SHALL BE HIGH-DENSITY POLYETHYLENE PIPE (HDPE) "ADS" N-12 SMOOTH INTERIOR HIGH DENSITY POLYETHYLENE CORRUGATED PIPE WITH WATERTIGHT JOINTS/FITTINGS, OR AN APPROVED EQUAL. FOR DRAIN LINES 30" AND LARGER SHALL HAVE "O" RING GASKETS, AND THE JOINTS ON THE OUTSIDE OF PIPE SHALL BE MORTARED.
8. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THE CONDITIONS OF ALL PERMITS, SPECIFICATIONS, AS WELL AS FEDERAL, STATE AND LOCAL REGULATIONS ARE STRICTLY ENFORCED. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ALL ASPECTS OF ON-SITE SAFETY.
9. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING DRAINAGE & UTILITIES, BOTH UNDERGROUND AND OVERHEAD, BEFORE EXCAVATION BEGINS IN ACCORDANCE WITH DIGSAFE AND BY CONTACTING THE INDIVIDUAL UTILITY COMPANIES. EXCAVATION SHALL BE IN ACCORDANCE WITH ALL STATUTES, ORDINANCES, RULES AND REGULATIONS OF ANY CITY, STATE OR FEDERAL AGENCY THAT MAY BE APPLICABLE. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE AND PROTECTION OF PEDESTRIAN AND VEHICULAR TRAFFIC INCLUDING POLICE PROTECTION. ALL TEMPORARY CONSTRUCTION SIGNS, BARRICADES AND LANE CLOSURES SHALL BE IN CONFORMANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.)
11. ALL REQUIRED AUTHORIZATION TO PERFORM WORK MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
12. ALL MANHOLE RIM ELEVATIONS ARE TO BE SET IN THE FIELD AT THE PROPOSED SURFACE LEVEL.
13. THE CONTRACTOR IS REQUIRED TO PROVIDE APPROPRIATE TRENCHING, CONDUITS, WIRING AND BACKFILL AS REQUIRED TO INSTALL THE PROPOSED UNDERGROUND ELECTRIC SERVICE AS SHOWN AND IN ACCORDANCE WITH LOCAL AND STATE REQUIREMENTS.
14. THE SITE IS A PART OF A PREVIOUSLY DEVELOPED SITE WHOSE BUILDINGS WERE DEMOLISHED. GARDNER+GERRISH, LLC. DOES NOT MAKE ANY CLAIMS AS TO THE SUBSURFACE MATERIAL OR CONDITIONS.
15. THE DRAINAGE AND UTILITY PLAN AND DRAINAGE DETAILS SHOWN ON LANDSCAPE PLANS ARE SUBJECT TO CHANGE WITH RESPECT TO REQUIRED UTILITY PERMIT CONDITIONS.

GENERAL NOTES CONT.:

16. CONSTRUCTION INDICATED ON THESE PLANS SHALL BE IN ACCORDANCE WITH THE LATEST REVISION OF AND MODIFICATIONS TO THE STATE OF RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE SPECIFICATIONS ACCOMPANYING THESE PLANS. IN CASE OF CONFLICT, THE SPECIAL PROVISIONS OF THE SPECIFICATIONS ACCOMPANYING THESE PLANS SHALL GOVERN.
17. ALL ITEMS NOT REFERENCED FOR MODIFICATION WILL BE "EXISTING TO REMAIN" UNLESS OTHERWISE DIRECTED BY THE LANDSCAPE ARCHITECT.
18. ANY EXISTING PROPERTY THAT WAS NOT PROPOSED TO BE MODIFIED THAT IS DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION.
19. THE CONTRACTOR SHALL NOT BE ALLOWED TO STOCK PILE CONSTRUCTION MATERIALS WITHIN THE CLEAR ZONE DURING NON-WORKING HOURS. THE CONTRACTOR SHALL PLACE ALL STOCKPILED MATERIAL IN A PLACE DESIGNATED BY THE LANDSCAPE ARCHITECT SO AS NOT TO CAUSE A SAFETY HAZARD.
20. THE FREQUENCY AND APPLICATION RATES FROM DUST CONTROL ITEMS WILL BE DETERMINED BY THE CONTRACTOR. CALCIUM CHLORIDE SHALL NOT BE USED FOR DUST CONTROL.
21. DIMENSIONS SHOWN ON THE PLANS ARE APPROXIMATE.
22. ANY SIDEWALK OR ROADWAY DISTURBED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST. THE COST SHALL BE CONSIDERED INCIDENTAL TO THE PRICE BID FOR THE ASSOCIATED WORK ITEM CAUSING THE DAMAGE. ANY SIDEWALKS OR ROADWAYS DAMAGED, OR TO BE RESTORED SHALL MATCH THE SAME MATERIAL THAT EXIST, INCLUDING CONCRETE BASE, UNLESS OTHERWISE INDICATED ON THE PLANS.
23. LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL CHECK AND VERIFY LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES.
24. BUILDING SERVICE CONNECTIONS (ELECTRIC, WATER AND SANITARY) ARE SHOWN WHEREVER POSSIBLE. THE CONTRACTOR IS TO ASSUME THAT SERVICES ARE PRESENT TO ALL BUILDINGS. THEIR LOCATIONS ARE TO BE CHECKED WITH THE APPROPRIATE UTILITY COMPANIES.
25. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DAMAGE TO WALLS, LOT CURBS AND FENCES ABUTTING SIDEWALKS DESIGNATED FOR REPLACEMENT OR REMOVAL. WHERE DIRECTED, NEW SIDEWALKS SHALL MEET SAID WALLS AND FENCES. PRIOR TO SIDEWALK REMOVAL, A SAW CUT SHALL BE PROVIDED IN ALL SIDEWALKS TO BE REMOVED A DISTANCE, TO BE DETERMINED BY THE ENGINEER (8 INCHES MINIMUM) FROM THE FACE OF ADJACENT BUILDINGS, RETAINING WALLS, LOT CURBS AND FENCES. THE FINAL SIX INCHES (MINIMUM) OF SIDEWALK SHALL BE REMOVED WITH CAUTION UNDER THE RESIDENT ENGINEERS SUPERVISION. THERE WILL BE NO ADDITIONAL PAYMENT FOR ANY LABOR OR EQUIPMENT NECESSARY TO MEET THIS "REMOVE WITH CAUTION" REQUIREMENT. PAYMENT OF THE REMOVAL OF THE FINAL (6" MINIMUM) OF SIDEWALK WILL BE INCLUDED UNDER CODE 201.0403 "REMOVE AND DISPOSE SIDEWALKS". THE REQUIRED SAW CUT WILL BE PAID FOR UNDER 932.0230 "FULL DEPTH SAW CUT OF PORTLAND CEMENT CONCRETE SIDEWALK/DRIVEWAY" WHICH EVER POSSIBLE.



7 BUNKER DETAIL AND CLEANOUT NO SCALE



8 BUNKER UNDERDRAIN SECTION NO SCALE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED AUG 28 2020 FILE # 20-0030
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

COPYRIGHT (C) by Gardner+Gerrish, LLC
All Rights Reserved

No part of this document may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior written permission of Gardner+Gerrish. Any modifications to this document without the written permission of Gardner+Gerrish shall render it invalid and unusable.

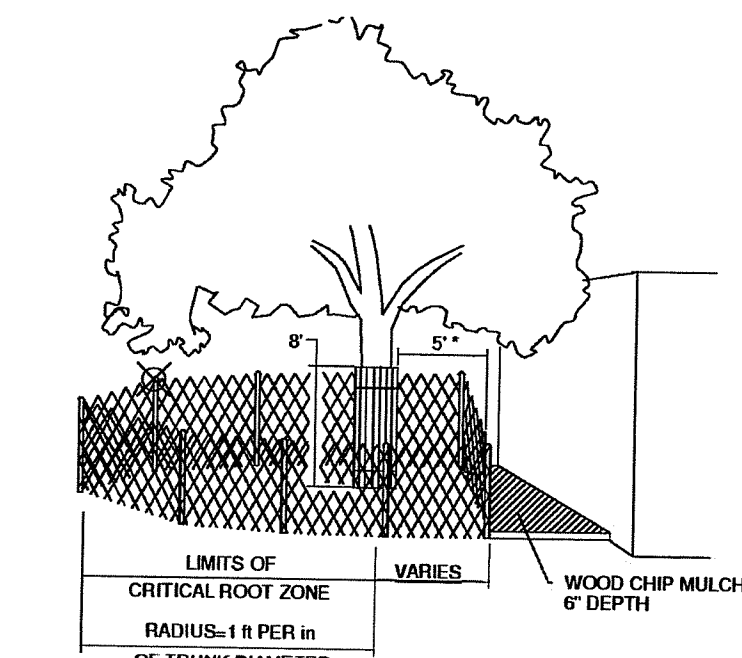
THOMAS SIMBRO
No. 000000000
REGISTERED PROFESSIONAL ENGINEER
(CIVIL) 1/1/2012

GARDNER+GERRISH
LANDSCAPE ARCHITECTS, LLC

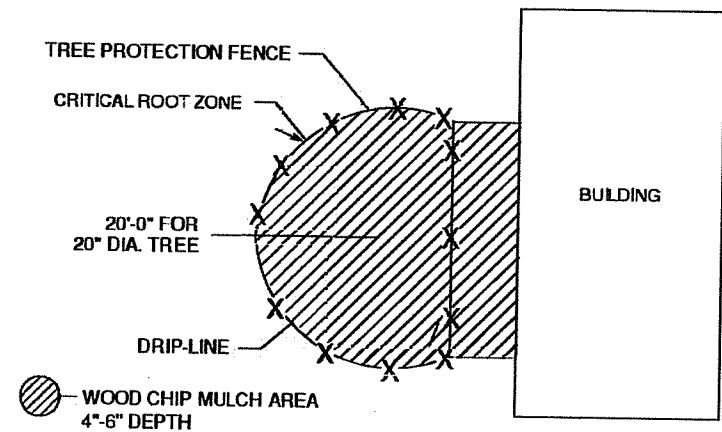
WRIGHT-PIERCE
Engineering a Better Environment
888.621.8156 | www.wright-pierce.com

TOWN OF BRISTOL
GOLF COURSE WATER
QUALITY IMPROVEMENTS
BRISTOL, RI
PROPOSED DETAIL PLAN I

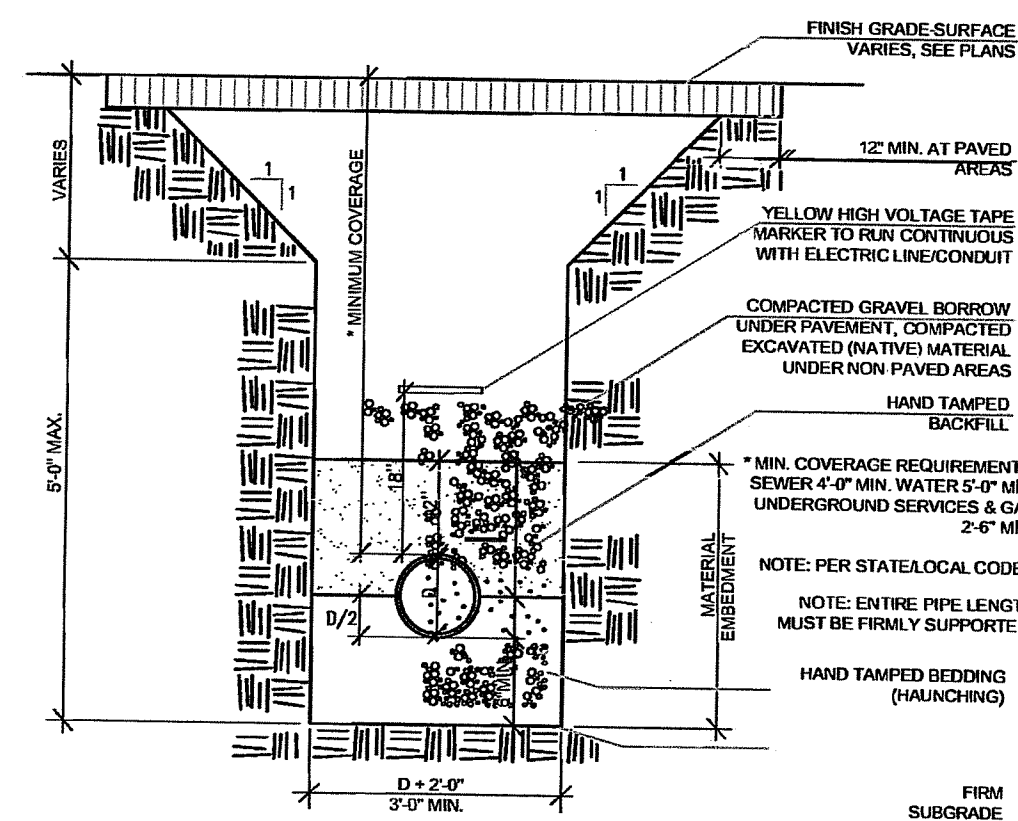
DRAWING
C-15



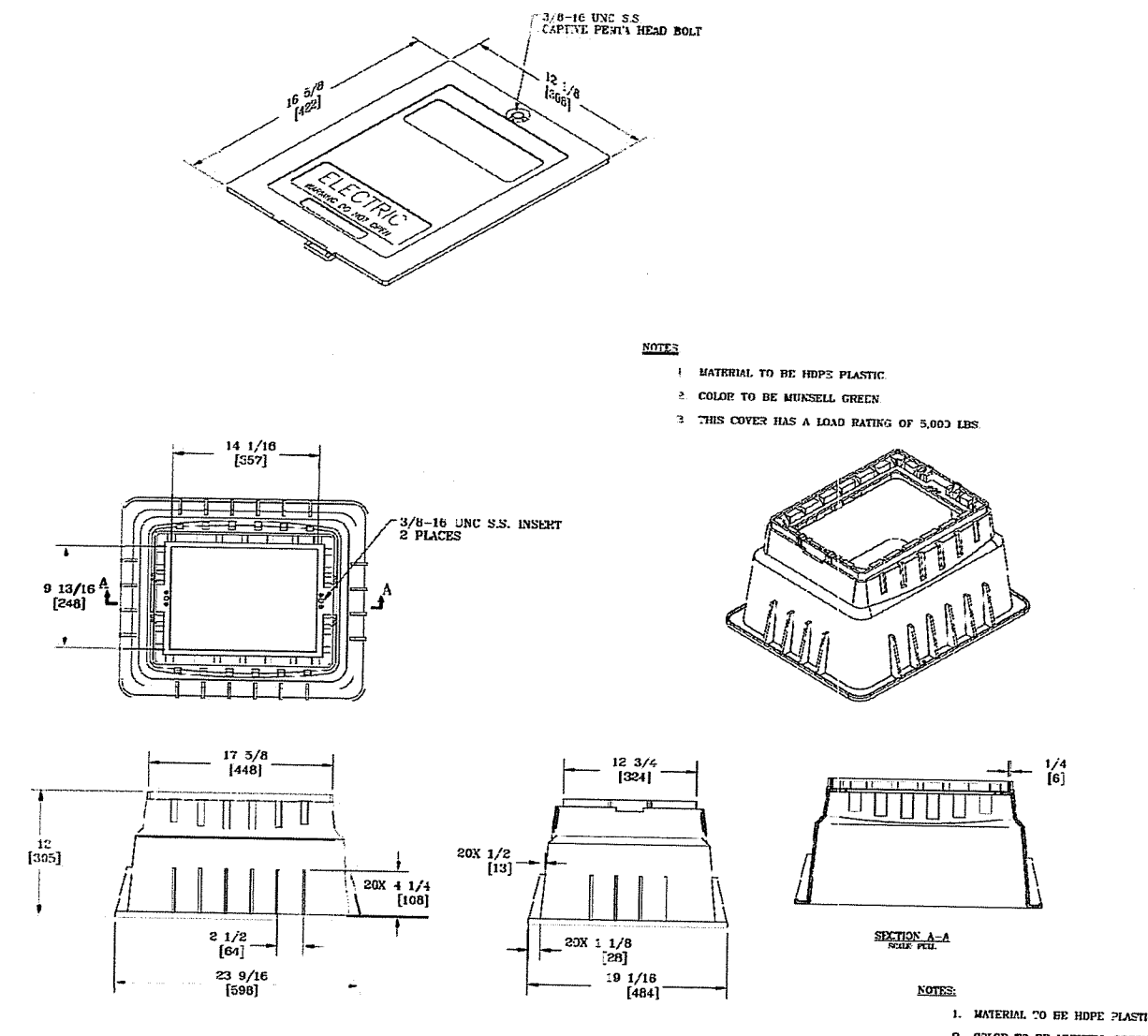
*AS NEEDED TO PROVIDE MINIMUM NECESSARY WORK SPACE, IF LESS THAN 6', THEN ADD BOARDS STRAPPED TO TRUNK.



1 TYPICAL TREE PROTECTION NO SCALE



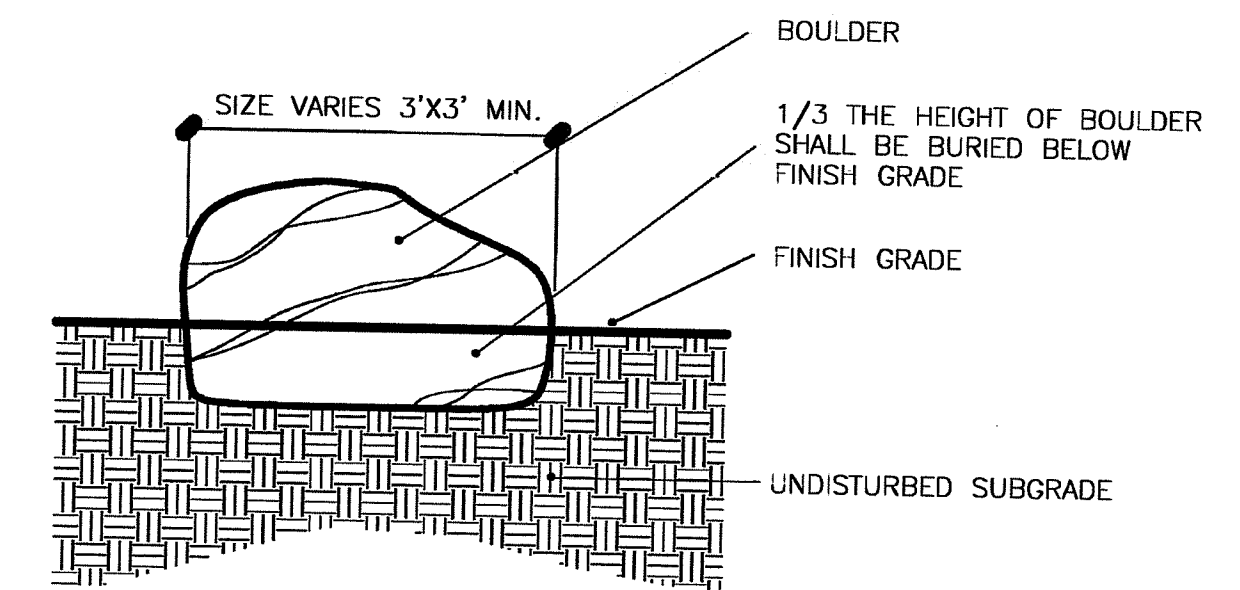
2 UTILITY TRENCH NO SCALE



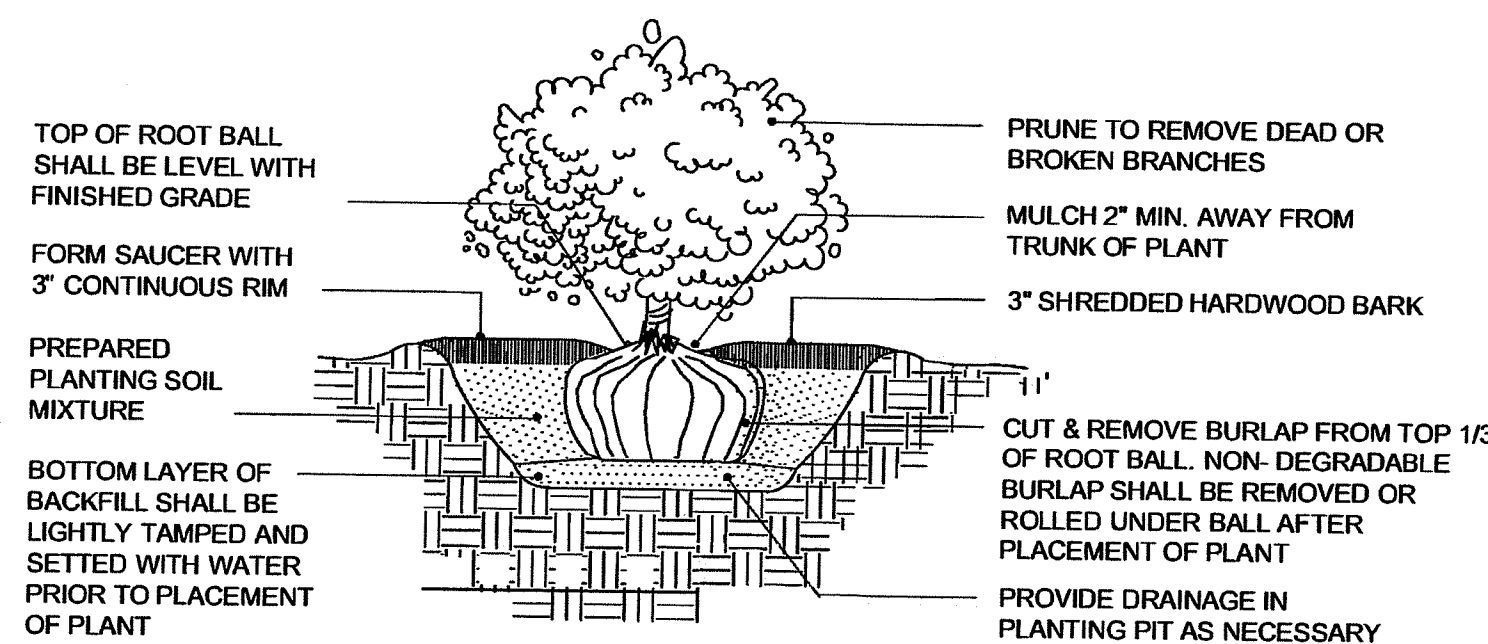
3 ELECTRICAL HAND HOLD NO SCALE

BOULDERS SHALL BE SUB ANGULAR AND SUB ROUNDED IN CHARACTER. NATIVE NEW ENGLAND BOULDERS SHALL BE BROWN AND BROWN-YELLOW IN HUE. SIZE OF BOULDERS SHALL RANGE FROM:

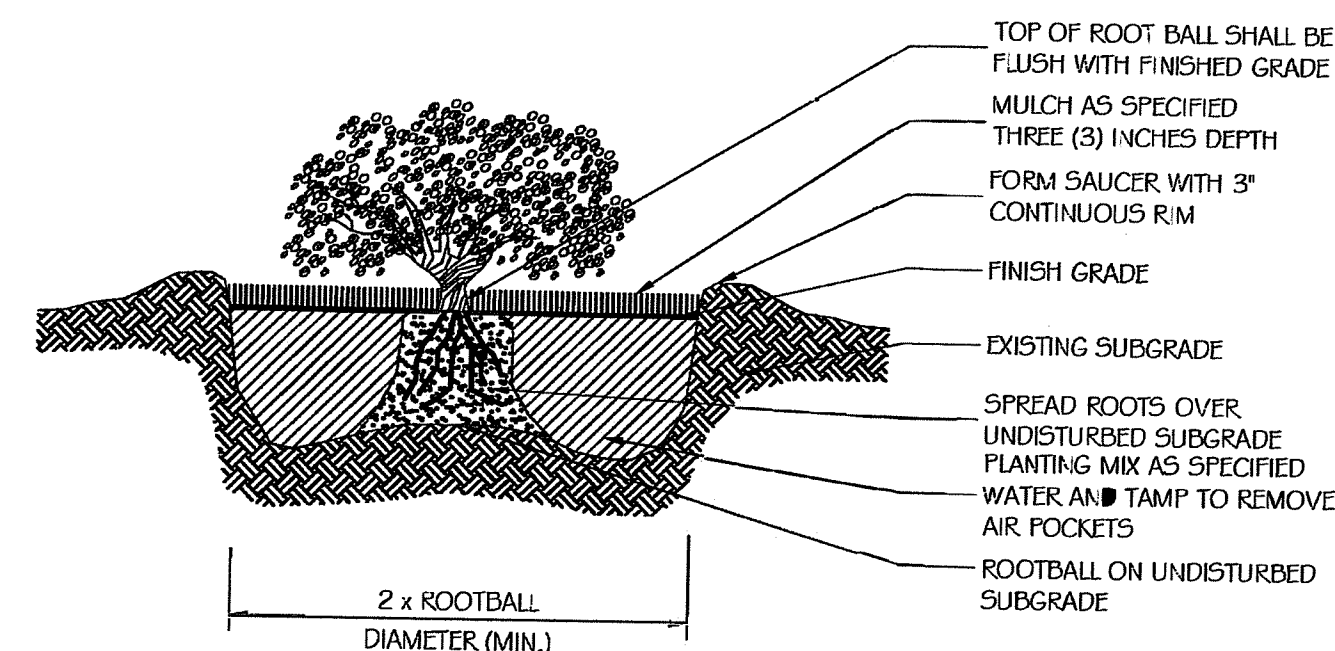
A: LESS THAN .75 CUBIC YARDS ESTIMATED QTY: 15
 B: .75 TO 1.5 CUBIC YARDS ESTIMATED QTY: 15
 C: MORE THAN 1.5 CUBIC YARDS ESTIMATED QTY: 10



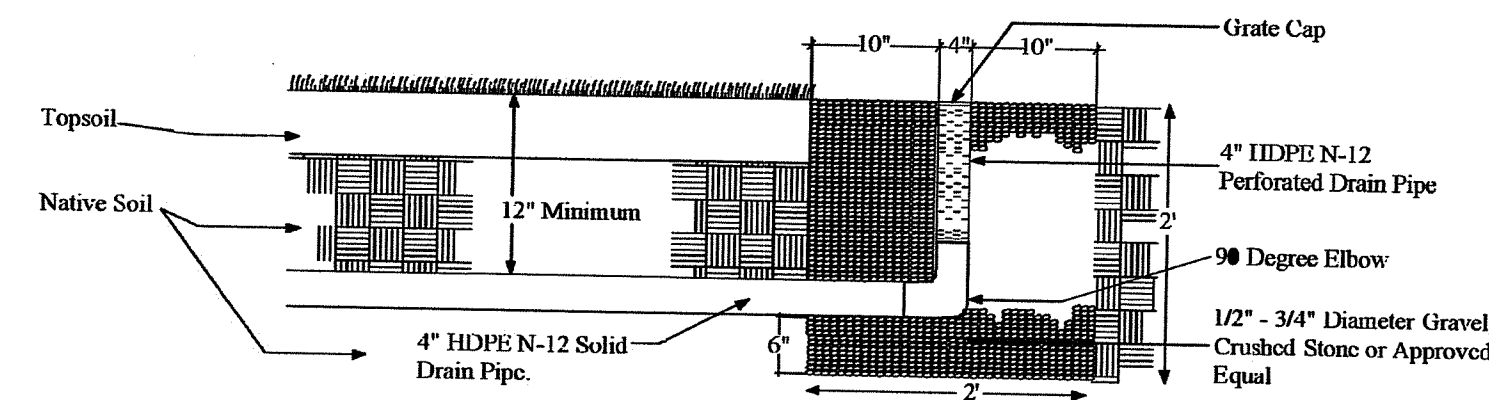
4 TYPICAL BOULDER NO SCALE



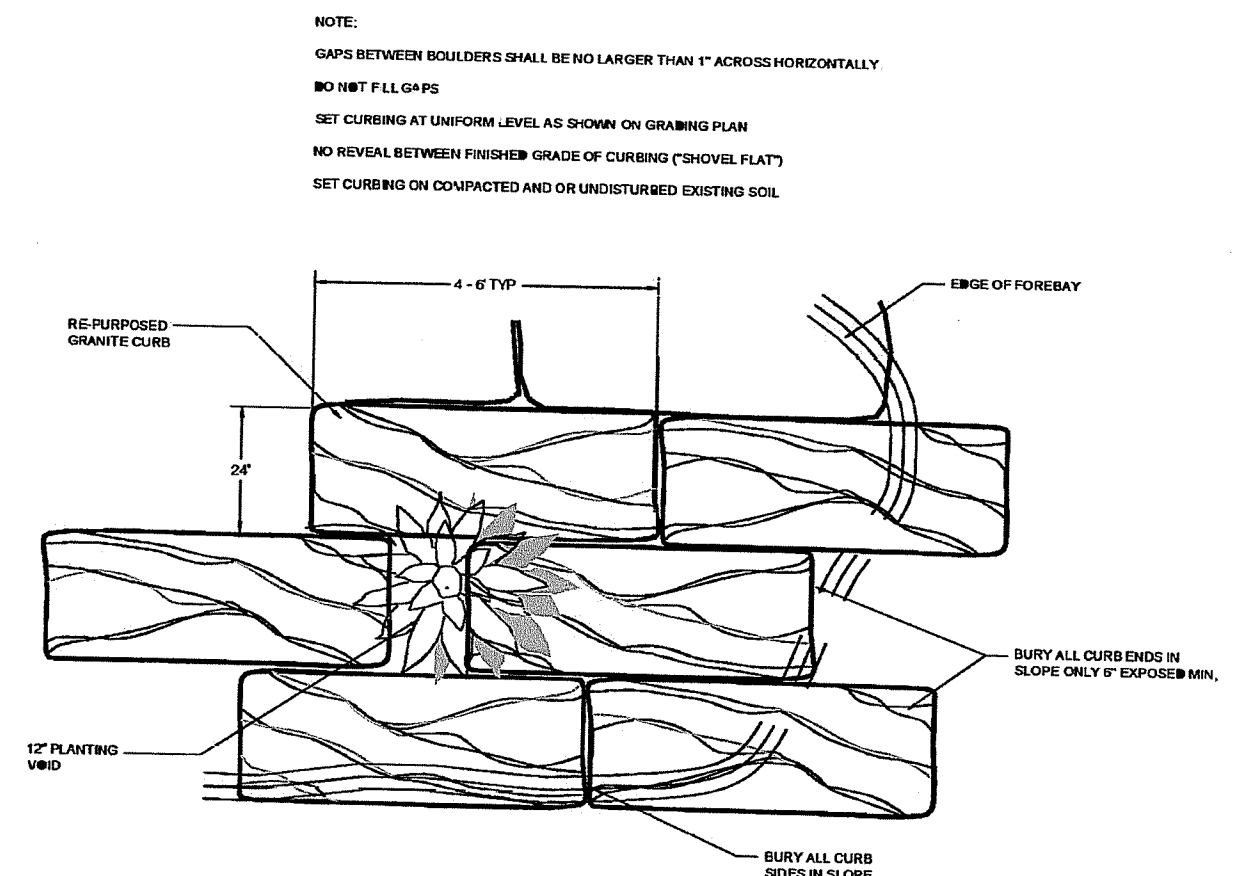
5 TYPICAL B&B SHRUB PLANTING NO SCALE



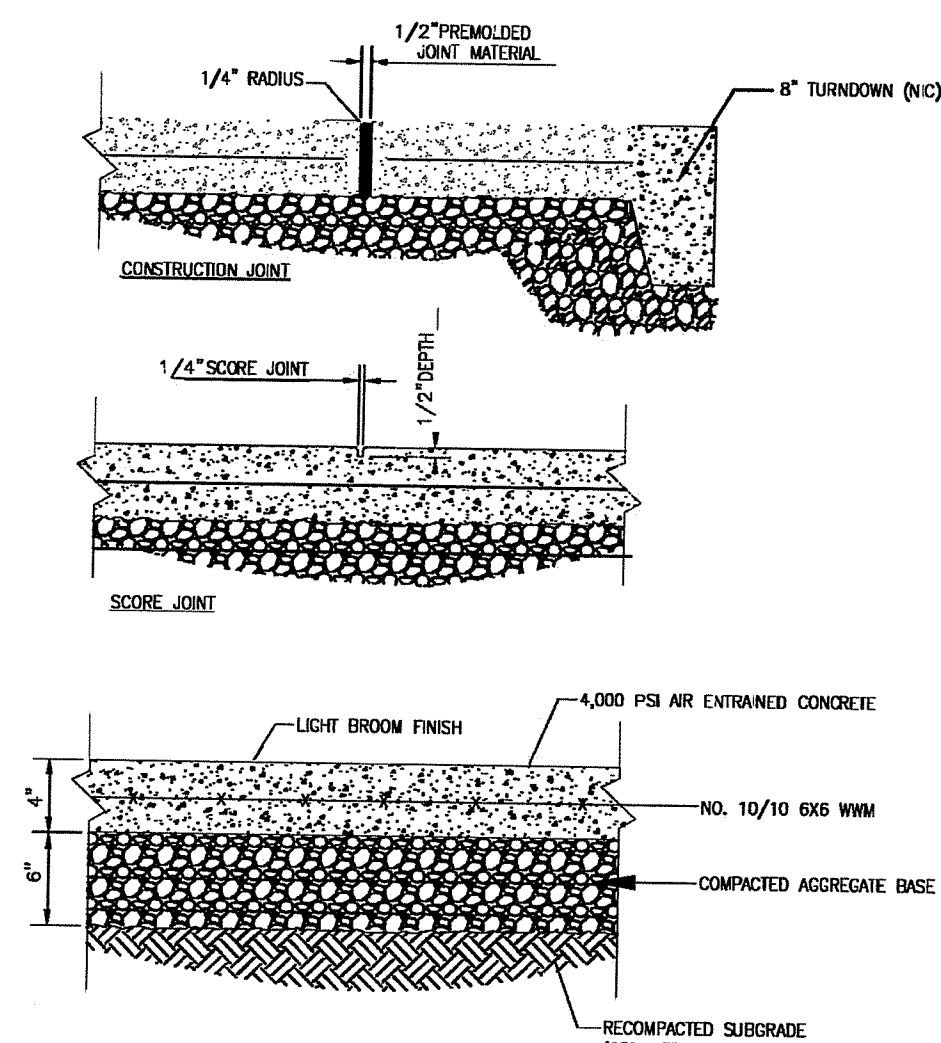
6 TYPICAL CONTAINER SHRUB PLANTING NO SCALE



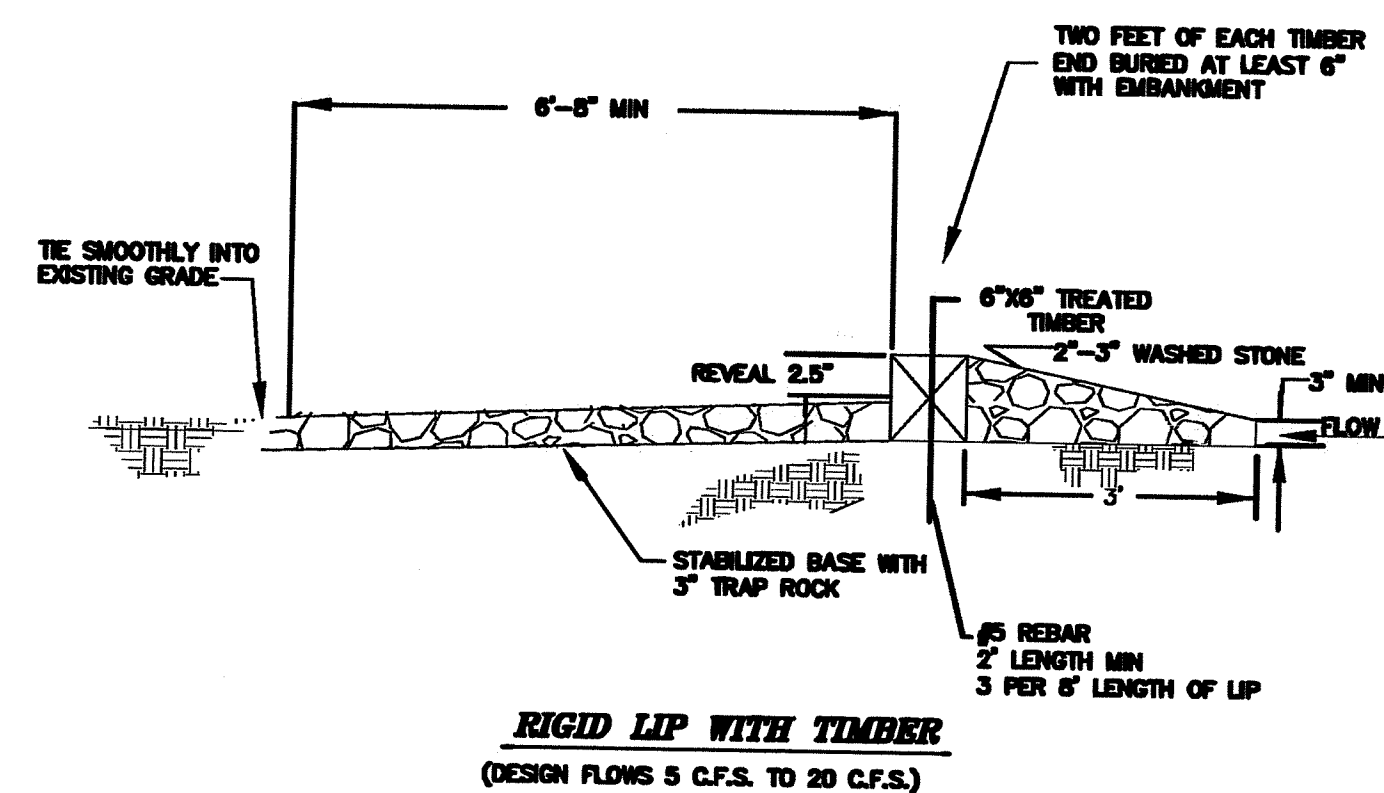
7 BUNKER DRAIN WITH SUMP NO SCALE



8 FOREBAY PLAN NO SCALE

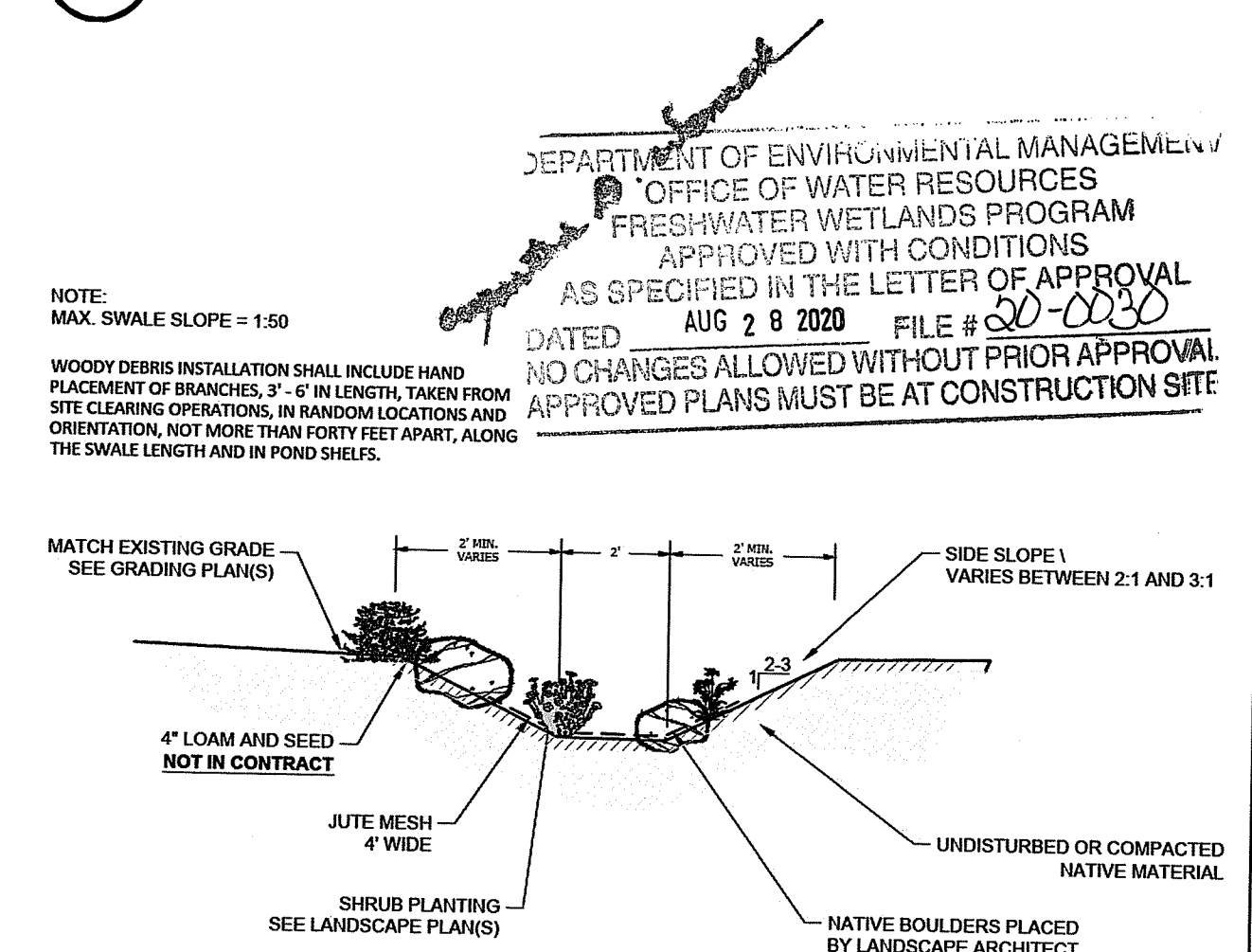


9 CONCRETE PAD NO SCALE



10 LEVEL SPREADER NO SCALE

11 NO SC AE



12 SWALE SECTION NO SCALE

COPYRIGHT (C) by Gardner+Gerrish, LLC
 All Rights Reserved

No part of this document may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior written permission of Gardner+Gerrish. Any modifications to this document without the written permission of Gardner+Gerrish shall render it invalid and unusable.

APPROVED FOR CONSTRUCTION
 AUG 14 2020
 LARRY J. GERRISH, P.E.

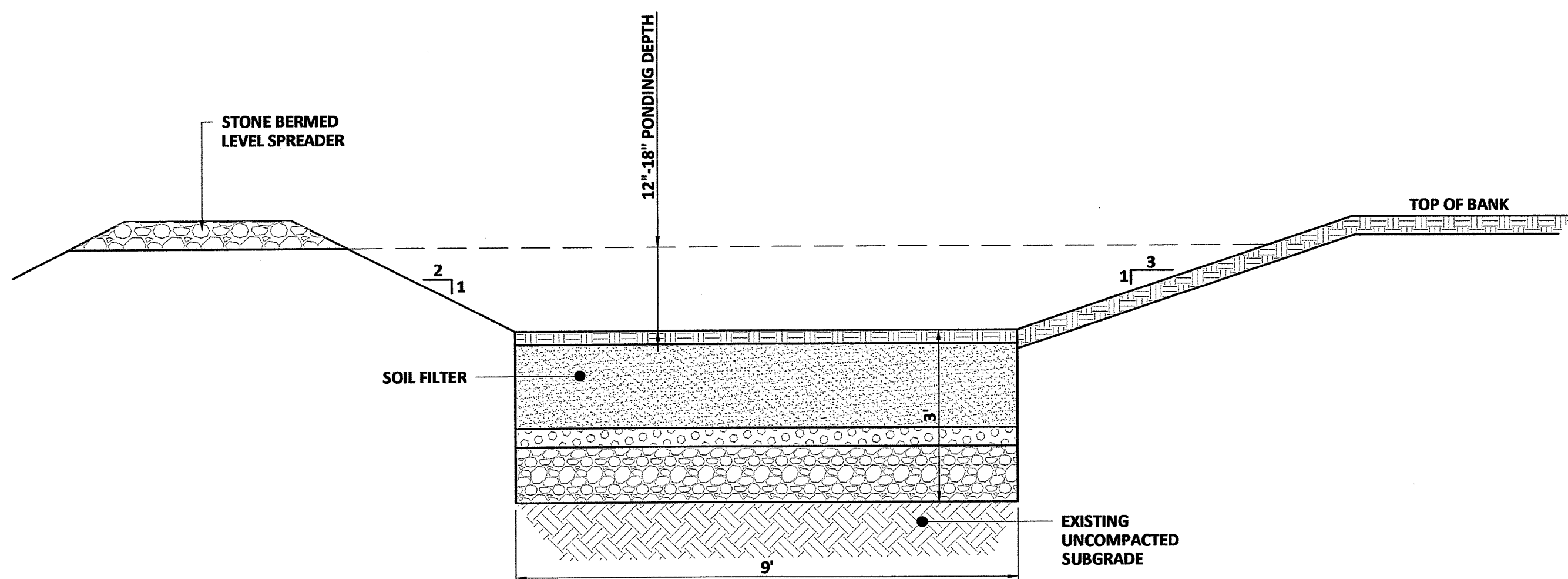
THOMAS SIMBRO
 No. 8878
 PROFESSIONAL ENGINEER
 CIVIL (1/1/1972)

GARDNER+GERRISH
 LANDSCAPE ARCHITECTS LLC

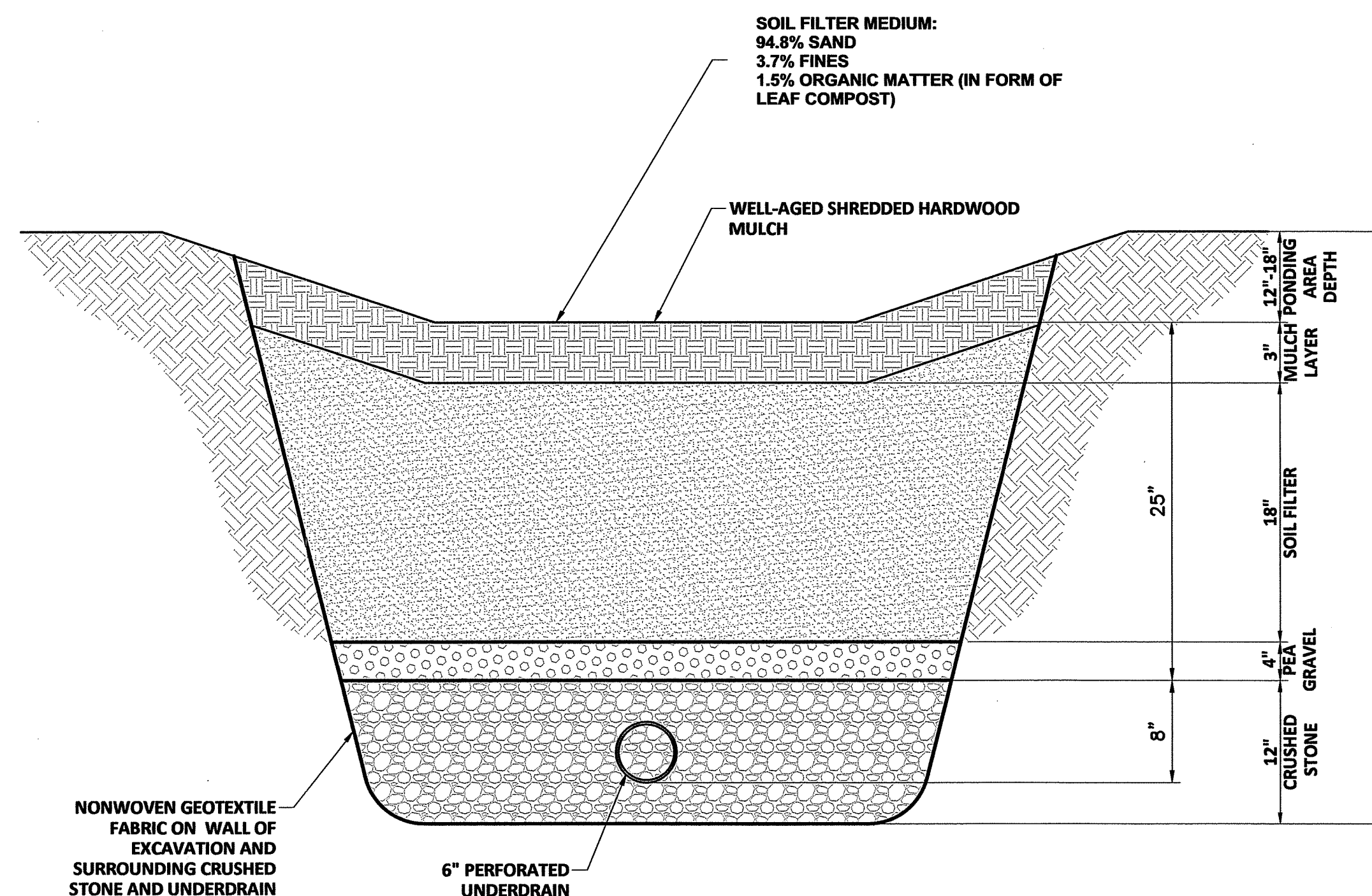
WRIGHT-PIERCE
 Engineering a Better Environment
 888.621.8156 | www.wright-pierce.com

TOWN OF BRISTOL
 GOLF COURSE WATER
 QUALITY IMPROVEMENTS
 BRISTOL, RI
 PROPOSED DETAIL PLAN II

DRAWING
 C-16



UNDERDRAIN SOIL FILTER
SCALE: 1"=2'



UNDERDRAIN SOIL FILTER
SCALE: NTS

For the approval of the project
AUG 14 2020
C:\eng\20198-GOLF COURSE WATER QUALITY IMPROVEMENT\DRAWINGS\CIV\20198-CS-DETAILS\DWG

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
AUG 28 2020 FILE # 20-0030
DATED
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

<p>DESIGNED BY: _____ CAD COORD: _____ CHECKED BY: _____ DATE: _____ APPROVED BY: _____ DATE: _____ PROJECT NO. 20198</p>		<p>NO. _____ SUBMISSIONS/REVISIONS</p>	<p>APP'D DATE</p>
<p>THOMAS SIMBRO No. 8870 PROFESSIONAL ENGINEER CIVIL 01/21/20</p>			
<p>WRIGHT-PIERCE Engineering a Better Environment 888.621.8156 www.wright-pierce.com</p>		<p>GARRISH LANDSCAPE ARCHITECTS LLC</p>	
<p>TOWN OF BRISTOL GOLF COURSE WATER QUALITY IMPROVEMENTS BRISTOL, RI</p>		<p>DETAILS IV</p>	
<p>DRAWING C-18</p>			