

# SITE PLANS

FOR



# TOWN OF BURRILLVILLE RECREATION CENTER IMPROVEMENTS

300 CHURCH STREET (LODGE ROAD)

A.P. 157, LOT 36

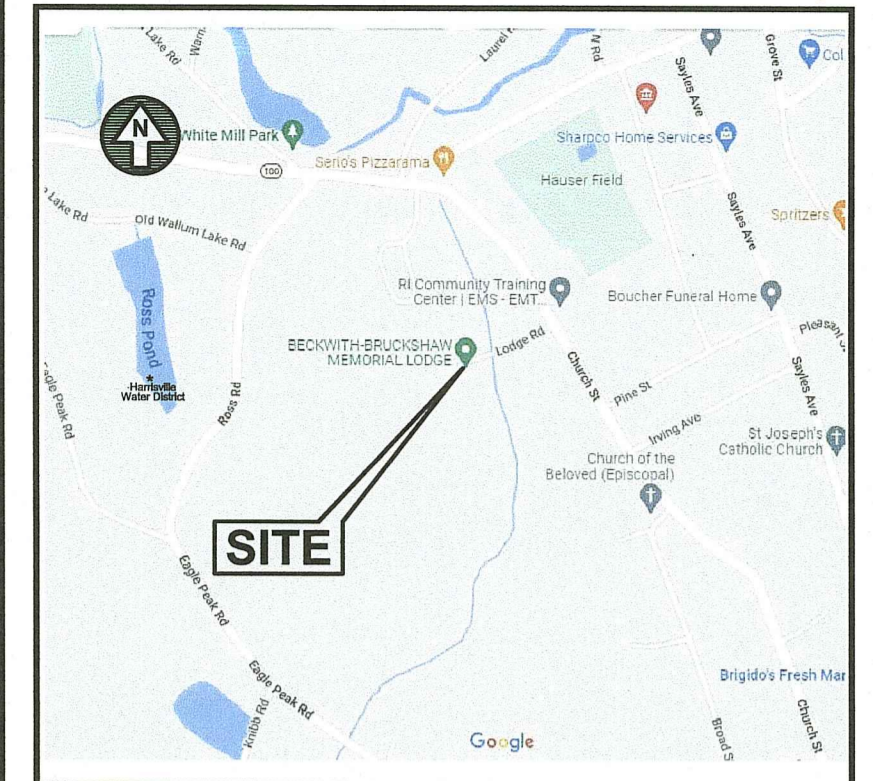
A.P. 174, LOT 2

BURRILLVILLE, RHODE ISLAND

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM

APPROVED WITH CONDITIONS AS  
SPECIFIED IN THE LETTER OF APPROVAL  
DATED: AUG 03 2023 FILE #: 23-0031

NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
*Nancy L. Freeman*



LOCATION MAP  
APPROXIMATE SCALE: 1"=1,250'

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### OWNER AND APPLICANT:

TOWN OF BURRILLVILLE  
65 UNION AVENUE  
HARRISVILLE, RI 02830

### PREPARED FOR :

TOWN OF BURRILLVILLE  
DEPARTMENT OF PUBLIC WORKS  
65 UNION AVENUE  
HARRISVILLE, RI 02830

### CIVIL ENGINEERS AND LAND SURVEYORS:



- Civil
- Transportation
- Environmental
- Site Planning
- Surveying
- Permitting
- Landscape Architecture

### CROSSMAN ENGINEERING

Rhode Island 151 Centerville Road  
Warwick, RI 02886  
Phone: (401) 738-5660

Massachusetts 103 Commonwealth Avenue  
North Attleboro, MA 02763  
Phone: (508) 695-1700

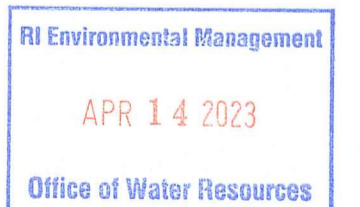
Email: [cei@crossmaneng.com](mailto:cei@crossmaneng.com)

NOVEMBER 2022  
SHEET 1 of 18



### WETLAND BIOLOGIST:

NATURAL RESOURCE SERVICES, INC.  
P.O. BOX 311  
HARRISVILLE, RI 02830  
PHONE: (401) 568-7390



### ISSUED FOR PERMITTING

### REVISIONS:

No.:	DATE:	DESCRIPTION:
1	4/12/23	RIDEM COMMENTS

**GENERAL NOTES**

1. THERE MAY BE ADDITIONAL UNKNOWN UTILITIES ON SITE. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING DRAINAGE AND UTILITIES, BOTH UNDERGROUND AND OVERHEAD, BEFORE EXCAVATION 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 ANY CITY, STATE OR FEDERAL AGENCY THAT MAY APPLY. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THE PLANS MAY NOT DEPICT ALL UNDERGROUND UTILITY SYSTEMS.
2. FOR ALL EXCAVATION, PLACEMENT OF FILL, BITUMINOUS PAVEMENT, CURB, CONCRETE AND SAWCUTTING, THE CONTRACTOR SHALL PERFORM THE WORK IN FULL COMPLIANCE WITH THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AMENDED MARCH 2018, WITH LATEST REVISIONS UNLESS OTHERWISE SHOWN ON PLANS. THE "METHOD OF MEASUREMENT" AND "BASIS OF PAYMENT" WITHIN THE R.I.D.O.T. SPECIFICATIONS ARE NOT APPLICABLE. THESE SPECIFICATIONS CAN BE OBTAINED ON-LINE AT: [HTTP://WWW.DOT.RI.GOV/BUSINESS/BLUEBOOK.PHP](http://www.dot.ri.gov/business/bluebook.php)
3. FOR ALL EXCAVATION AND PLACEMENT OF FILL, THE CONTRACTOR SHALL PERFORM THE WORK IN FULL COMPLIANCE WITH THE R.I. STANDARD SPECIFICATION SECTION 202.
4. RHODE ISLAND STANDARDS REFERENCED ARE ACCORDING TO THE STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS "RHODE ISLAND STANDARD DETAILS" DATED June 21, 2021, WITH ALL REVISIONS AS PREPARED BY THE DEPARTMENT OF TRANSPORTATION.
5. THE CONTRACTOR MUST VERIFY PRIOR TO CONSTRUCTION THAT ALL REQUIRED AUTHORIZATION TO PERFORM WORK HAS BEEN OBTAINED. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION OPERATIONS INCLUDING ALL ACTIONS OR OMISSIONS OF ANY SUBCONTRACTORS, AGENTS OR EMPLOYEES. THE CONTRACTOR MUST ENSURE THAT THE CONDITIONS OF ALL PERMITS, SPECIFICATIONS AND FEDERAL, STATE AND LOCAL REGULATIONS ARE STRICTLY ENFORCED. THE CONTRACTOR IS ALSO RESPONSIBLE FOR ASPECTS OF ON-SITE SAFETY INCLUDING ANY DAMAGE TO EXISTING ITEMS OUTSIDE THE SCOPE OF WORK.
6. WORK SHOWN ON THE PLANS FOR WHICH THERE ARE NO PARTICULAR DETAILS OR SPECIFICATIONS DOES NOT RELIEVE THE CONTRACTOR FROM FURNISHING AND INSTALLING THE WORK. THE CONTRACTOR SHALL THOROUGHLY EXAMINE THE CONTRACT DOCUMENTS AND PLANS AND INSPECT THE SITE. THE BID PRICE SHALL INCLUDE ALL LABOR, INCIDENTALS, TOOLS EQUIPMENT, TESTING, 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 AND OWNER.
7. CONTRACTOR IS RESPONSIBLE TO VERIFY ALL EXISTING CONDITIONS, GRADES AND DIMENSIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ANY WORK.
8. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THIS PROJECT PRIOR TO THE INITIATION OF WORK. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS, RELATIVE TO THE SPECIFICATIONS OR APPLICABLE CODES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PROJECT ENGINEER OF RECORD IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE PROJECT ENGINEER SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF WORK AS DEFINED BY THE DRAWINGS AND IN FULL CONFORMANCE WITH LOCAL REGULATIONS AND CODES.
9. ALL DISTURBED AREAS SHALL BE REPLACED IN KIND UNLESS OTHERWISE SHOWN.
10. ADDITIONAL CURB AND SIDEWALK REMOVAL AND REPLACEMENT MAY BE REQUIRED WHEN MATCHING NEW CURB AND SIDEWALK TO EXISTING AT EXPANSION JOINTS. IF REQUIRED, THIS TASK SHALL BE INCLUDED IN THE PROJECT SCOPE AT NO ADDITIONAL COST TO THE OWNER.
11. ADA RAMPS SHALL HAVE A DETECTABLE WARNING DEVICE/PAD IN ACCORDANCE WITH LOCAL AND STATE GUIDELINES (R.I. STD. 48.1.0) OR APPROVED EQUAL.

**LAYOUT NOTE**

THE LAYOUT SHOWN REPRESENTS A GRAPHICAL DESIGN, AND PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL ENGAGE A PROFESSIONAL LAND SURVEYOR (PLS) REGISTERED IN THE STATE TO SET AND VERIFY ALL LINES AND GRADES. ALL EXISTING UTILITY LOCATIONS AND ELEVATIONS ARE TO BE CONFIRMED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY ITEM FOUND WHICH DOES NOT MATCH THE PLANS MUST BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO CONSTRUCTION FOR REVIEW. NO WORK SHALL PROCEED UNTIL AUTHORIZED BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE TO ACCURATELY LOCATE THE PROPOSED PATIO, STAIRS, RETAINING WALLS, DRIVE-UP WINDOW AND OTHER ITEMS WITHIN THE PROPERTY AS NOTED ON THE PLANS.

**EXISTING UTILITY NOTES**

1. THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES AND OWNER TO OBTAIN THE LOCATION OF ALL UTILITIES PRIOR TO BEGINNING WORK. THE MARKED LOCATIONS SHALL BE PRESERVED BY THE CONTRACTOR DURING THE COURSE OF THE WORK, UNTIL SUCH TIME AS THE ARE NO LONGER NEEDED.
2. ALL UTILITIES INTERFERED WITH OR DAMAGED BY THE CONTRACTOR SHALL BE IMMEDIATELY AND PROPERLY RESTORED BY THE CONTRACTOR. THE CONTRACTOR SHALL FULLY COMPACT ALL BACKFILL MATERIAL AROUND AND UNDER ALL EXISTING UTILITIES ENCOUNTERED OR CROSSED.
3. THE CONTRACTOR SHALL BE AWARE THAT THERE MAY BE AN UNDERGROUND UTILITIES INCLUDING ELECTRIC ON SITE WITHIN THE SIDEWALK LOCATION. THE CONTRACTOR SHALL CONTACT DIG SAFE AND THE APPLICABLE UTILITY COMPANIES TO COORDINATE DEMOLITION AND CONSTRUCTION OPERATIONS ON SITE.

**RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM**

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*Nancy L. Freeman*

**MAINTENANCE AND PROTECTION OF TRAFFIC NOTES**

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE AND PROTECTION OF PEDESTRIAN AND VEHICULAR TRAFFIC INCLUDING POLICE PROTECTION IF REQUIRED. ALL TEMPORARY CONSTRUCTION SIGNS, BARRICADES AND LANE CLOSURES SHALL BE IN CONFORMANCE WITH THE LATEST REVISIONS OF MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.)
2. TEMPORARY CONSTRUCTION SIGNS AND ALL APPLICABLE PEDESTRIAN AND VEHICLE TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF WORK IN ANY AREA OPEN TO PEDESTRIAN OR VEHICLE TRAFFIC.
3. THE CONTRACTOR IS REQUIRED TO COORDINATE WORK WITH PCF VENTURES PRIOR TO CONSTRUCTION.
4. ALL MAINTENANCE AND PROTECTION OF TRAFFIC CONTROL SETUPS, SIGNS, CHANNELING DEVICES, ETC., SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 2009 EDITION, INCLUDING REVISION 2, MAY 2012, AND SUBSEQUENT ADDENDA.
5. SIGN MOUNTINGS SHALL BE IN ACCORDANCE WITH THE STATE D.O.T. SPECIFICATIONS FOR TEMPORARY CONSTRUCTION SIGNS.
6. SPECIAL CARE SHALL BE GIVEN TO THE CONSTRUCTION OF THE SIDEWALK AREAS USED BY PEDESTRIANS. CONTRACTOR SHALL CLOSE OFF SIDEWALKS TO PREVENT POTENTIAL HAZARD CONDITIONS TO PEDESTRIANS UNAWARE OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING PROTECTION AROUND WORK AREAS.

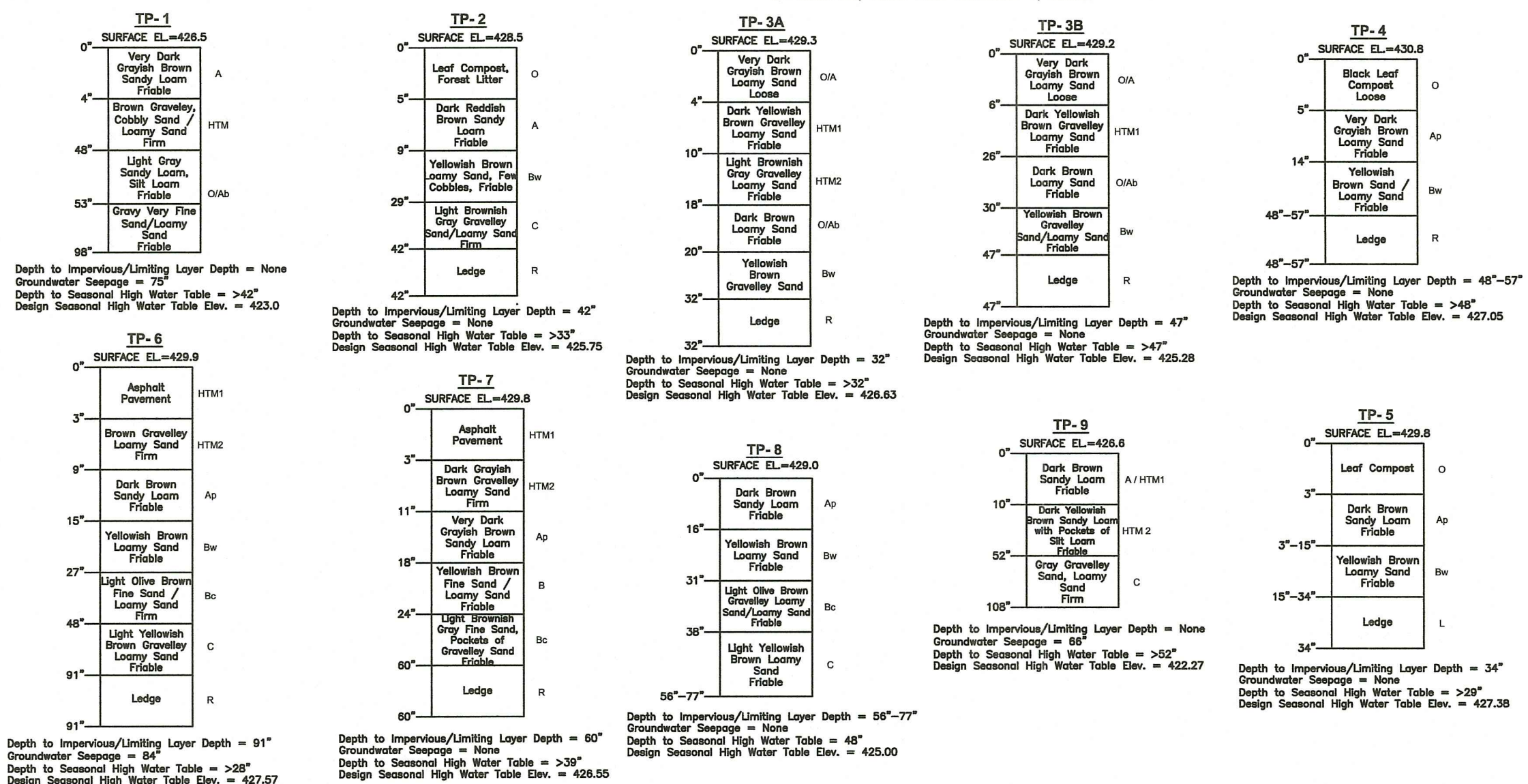
**FLOOD ZONE NOTE**

THE SITE IS LOCATED IN FEMA FLOOD ZONE X (AREAS DETERMINED TO BE AS BEING AREAS OF MINIMAL FLOODING, OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD) AS SHOWN ON THE FLOOD INSURANCE RATE MAP, MAP NUMBER 4407C0130G, EFFECTIVE MARCH 2, 2009.

EXISTING	LEGEND	PROPOSED
A.P.	ASSESSORS PLAT	
N/F	NOW OR FORMERLY	
D.B., P.C.	DEED BOOK, PAGE	
	PROPERTY LINE	
	EASEMENT LINE	
	CURB/BERM	
	UTILITY POLE	
	LIGHT POLE	
	DRAIN LINE	
	FORCE MAIN	
	SANITARY SEWER	
	GAS LINE	
	WATER LINE	
	COMMUNICATION LINE	
	OVERHEAD WIRES	
	ELECTRIC LINE	
	DRAINAGE MANHOLE	DMH
	MANHOLE	CB
	CATCH BASIN	DCB
	DOUBLE GRATE CATCH BASIN	
	SEWER MANHOLE	
	ELECTRIC MANHOLE	
	FIRE HYDRANT	
	WATER GATE	
	GAS GATE	
	ELECTRIC HANDHOLE	
	CLEAN-OUT	
	CONTOURS	ELEV.
	SPOT GRADES	ELEV.
	CHAIN LINK FENCE	
	STOCKADE FENCE	
	RETAINING WALL	
	STONE WALL	
	GRADE TO DRAIN	
	GUARDRAIL	
	EDGE OF WOODS	
	TREE	
	HEDGE/SHRUB	
	SIGN	
	MAILBOX	
	GUY ANCHOR	
	SIGNAL POLE	
	BUILDING/STRUCTURE	
	SAW CUT AND MATCH PAVEMENT (FULL DEPTH)	
	WETLAND FLAGGING	
	50' PERIMETER WETLAND BOUNDARY	
	100' & 200' RIVERBANK BOUNDARY	
	APPROXIMATE RIVERBANK	
	LIMIT OF DISTURBANCE	
	EROSION CONTROL	

**TEST PIT DATA**

TEST PIT DATA REPORTED BY BRUCE HAGERMAN, R.I. PE#5787 ON JUNE 29, 2022 AND OCTOBER 4, 2022.



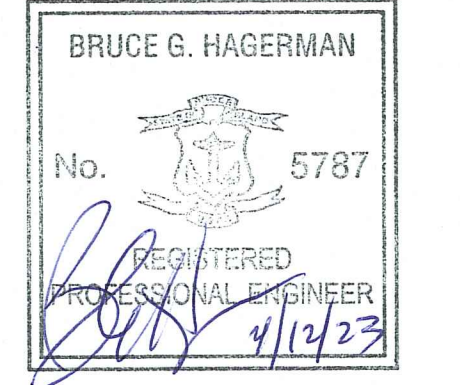
**Crossman Engineering**

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151 Cantarville Road  
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**PROJECT TITLE:**

**RECREATION CENTER IMPROVEMENTS**

A.P. 157, LOT 36  
A.P. 174, LOT 2  
300 CHURCH STREET  
BURRILLVILLE, RHODE ISLAND

**PREPARED FOR:**

**TOWN OF BURRILLVILLE**



105 HARRISVILLE MAIN STREET  
HARRISVILLE, RI 02830

**DRAWING TITLE:**

**GENERAL NOTES AND LEGEND**

**DATE:** NOVEMBER 2022 **SCALE:** NO SCALE

**DWG. NAME:** 2567-02-NOTE.dwg

**REVISIONS**

NUMBER	REMARKS	DATE
1	RIDEM COMMENTS	4/12/23

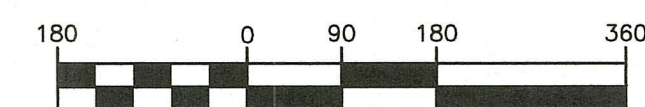
**DRAWING NUMBER**

**C1.0**

SHEET: 2 OF 18



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GRAPHIC SCALE  
 ( IN FEET )  
 1 inch = 180 ft.

**CROSSMAN ENGINEERING**  
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 Massachusetts: 103 Commonwealth Avenue, North Attleboro, MA 02763, Phone: (508) 695-1700  
 Email: cel@crossmaneng.com

- Civil
- Transportation
- Environmental
- Site Planning
- Surveying
- Permitting
- Landscape Architecture

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BRUCE G. HAGERMAN  
 No. 5787  
 REGISTERED PROFESSIONAL ENGINEER  
 4/12/23

RI Environmental Management  
 APR 14 2023  
 Office of Water Resources

PROJECT TITLE:  
**RECREATION CENTER IMPROVEMENTS**  
 A.P. 157, LOT 36  
 A.P. 174, LOT 2  
 300 CHURCH STREET  
 BURRILLVILLE, RHODE ISLAND

PREPARED FOR:  
**TOWN OF BURRILLVILLE**  
  
 105 HARRISVILLE MAIN STREET  
 HARRISVILLE, RI 02830

DRAWING TITLE:  
**AERIAL MAP**

DATE: NOVEMBER 2022 SCALE: 1" = 180'  
 DWG. NAME: 2567-03-AERIAL.dwg

REVISIONS

NUMBER	REMARKS	DATE
1	RIDEM COMMENTS	4/12/23

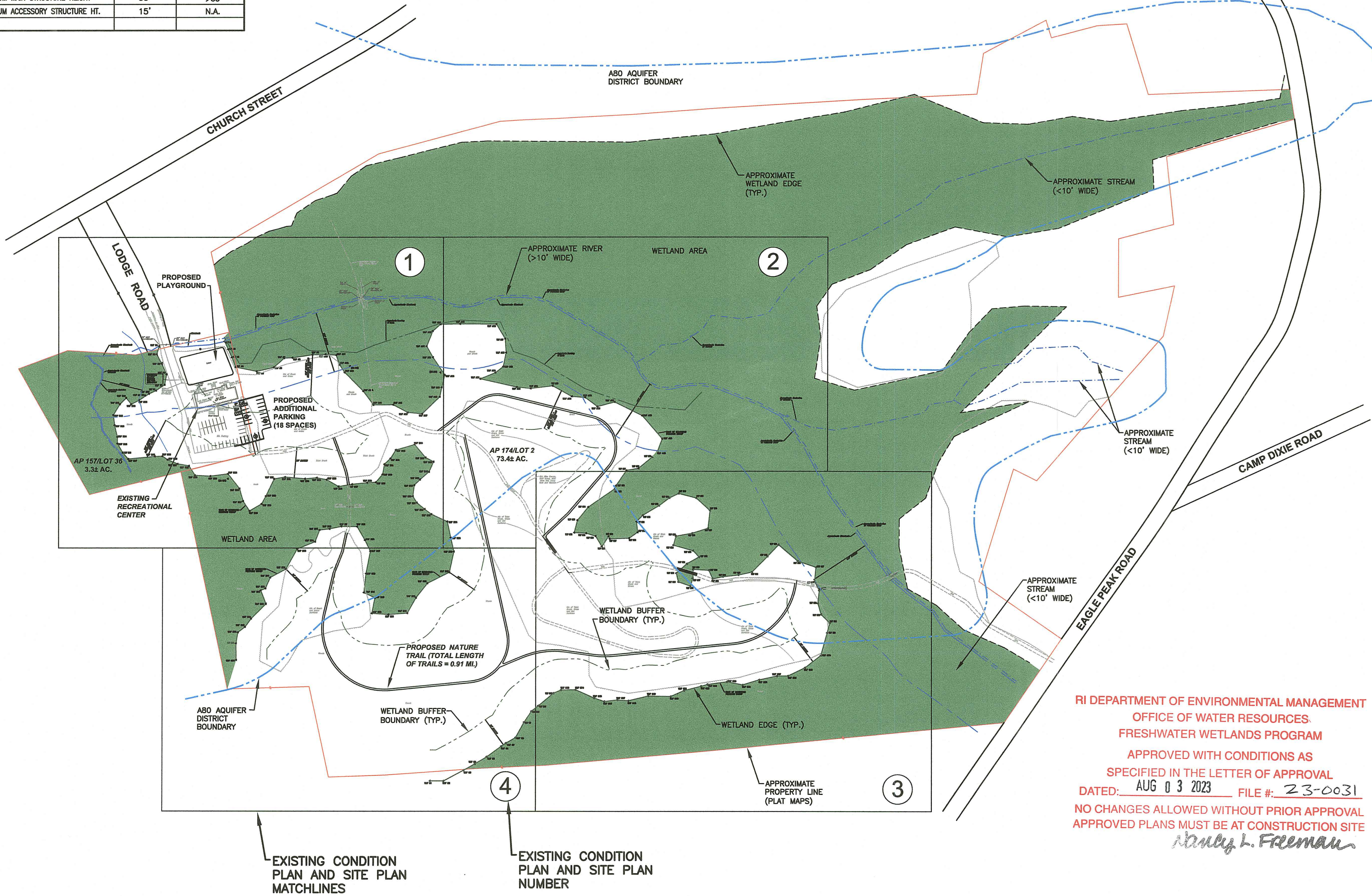
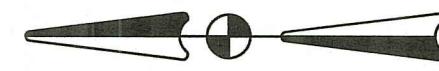
DRAWING NUMBER  
**C2.0**  
 SHEET: 3 OF: 18

**BURRILLVILLE ZONING REQUIREMENTS (Lot 36)**

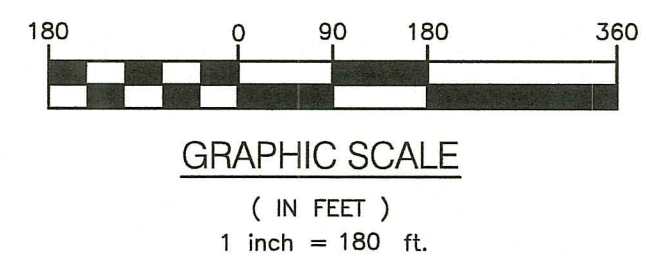
ZONING DISTRICT: RESIDENTIAL R40		
OVERLAY DISTRICT: A80 AQUIFER OVERLAY/GROUNDWATER PROTECTION DISTRICT		
PERMITTED USE: MUNICIPAL OR GOVERNMENT BUILDING		
	REQUIRED	PROVIDED
MINIMUM LOT REQUIREMENTS (Lot 36)		
MINIMUM LOT AREA	80,000 SF	142,441±SF
MINIMUM LOT FRONTAGE	150'	33'±
MAXIMUM BUILDING COVERAGE	15%	2.8%
SETBACK REQUIREMENTS (Lot 36)		
FRONT YARD SETBACK	40'	122'±
SIDE YARD SETBACK	15'	12.4'±
REAR YARD SETBACK	15'	137.5'±
DIMENSIONAL REQUIREMENTS (Lot 36)		
MAXIMUM MAIN STRUCTURE HEIGHT	35'	>35'
MAXIMUM ACCESSORY STRUCTURE HT.	15'	N.A.

**OFF-STREET PARKING AND LOADING REQUIREMENTS**

<b>PARKING REQUIREMENTS:</b>	
<b>PLACES OF ASSEMBLY (30-156(a)(1)(e):</b>	
ONE (1) SPACE FOR EVERY FIVE (5) PERSONS OF CAPACITY	
<b>REQUIRED NUMBER OF PARKING SPACES:</b>	
-MAXIMUM PERSON CAPACITY OF THE EXISTING BUILDING = 150 PERSONS	
REQUIRED NUMBER OF SPACES = 150 PERSONS/(5 PERSONS/SPACE) = 30 SPACES	
-PLAYGROUND CAPACITY = 1 CHILD/100 SF = 6,894 SF/100SF = 69 CHILDREN	
ASSUME 1 PARENT PER 2 CHILDREN = 35 PARENTS	
REQUIRED NUMBER OF SPACES=(69 + 35)=104 PERSONS/(5 PERSONS/SPACE)= 21 SPACES	
-MAXIMUM NUMBER OF SPACES REQUIRED= 30 + 21 = 51	
<b>PROVIDED NUMBER OF PARKING SPACES:</b>	
NUMBER OF PROPOSED PARKING SPACES = 50	
NUMBER OF ADA ACCESSIBLE SPACES = 3	
TOTAL NUMBER OF PROPOSED PARKING SPACES = 53	
<b>LOADING SPACE REQUIREMENTS</b>	
LOADING SPACES REQUIRED = N.A.	
NUMBER OF LOADING SPACES PROVIDED = NONE	



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**BRUCE G. HAGERMAN**  
 No. 5787  
 REGISTERED PROFESSIONAL ENGINEER  
*4/12/23*

RI Environmental Management  
 APR 14 2023  
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 105 HARRISVILLE MAIN STREET  
 HARRISVILLE, RI 02830

DRAWING TITLE:  
**OVERALL SITE PLAN**

DATE: NOVEMBER 2022 SCALE: 1"=180'  
 DWG. NAME: 2567-05-OVERALL.dwg

REVISIONS

NUMBER	REMARKS	DATE
1	RIDEM COMMENTS	4/12/23

DRAWING NUMBER  
**C3.0**  
 SHEET: 4 OF 18



**CROSSMAN ENGINEERING**

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105 HARRISVILLE MAIN STREET  
HARRISVILLE, RI 02830

DRAWING TITLE:

**EXISTING CONDITIONS PLAN NO.1**

DATE: NOVEMBER 2022

SCALE: 1"=50'

DWG. NAME: 2567-06-09-EX COND1-4.dwg

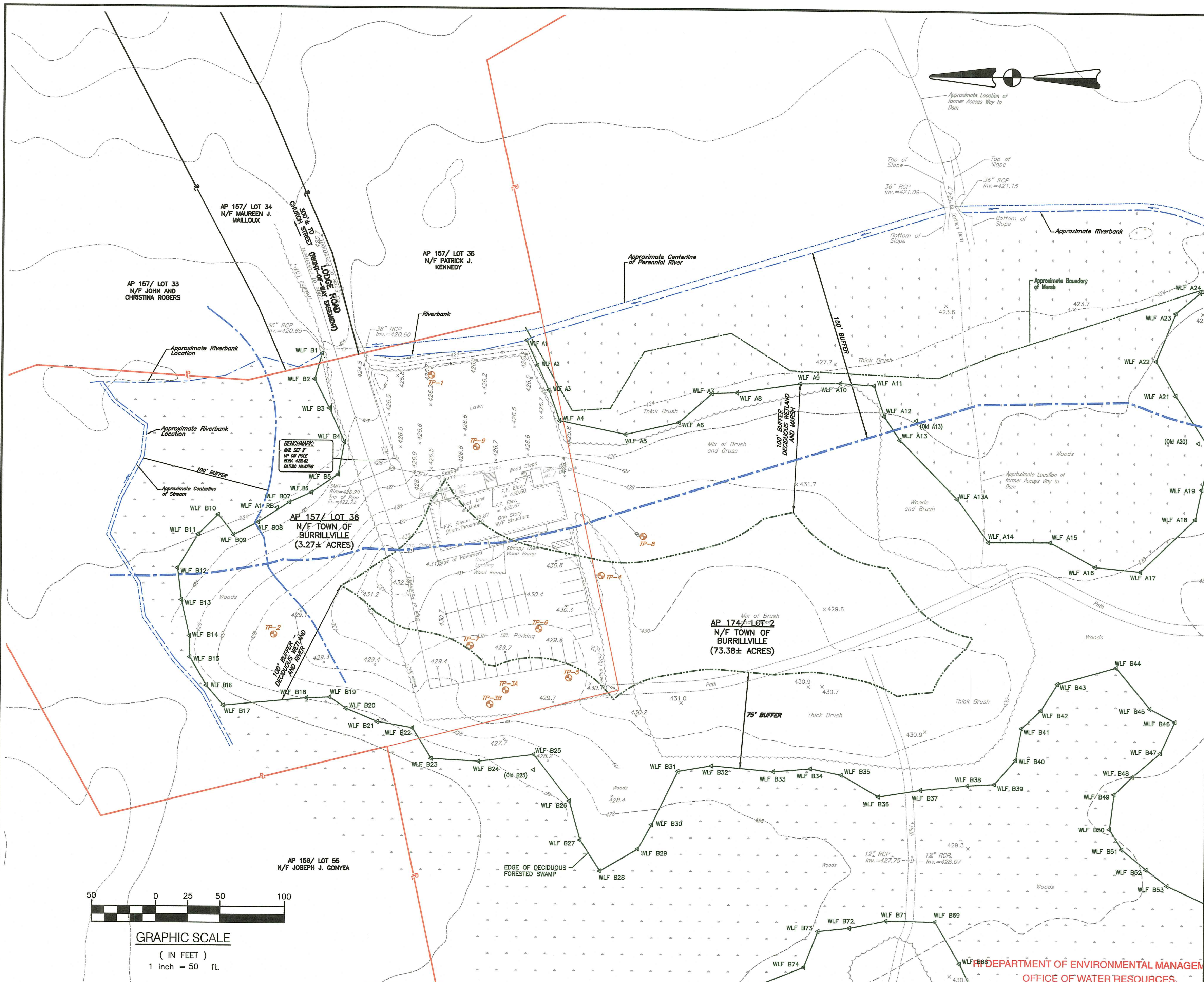
REVISIONS

NUMBER	REMARKS	DATE
1	RIDEM COMMENTS	4/12/23

DRAWING NUMBER

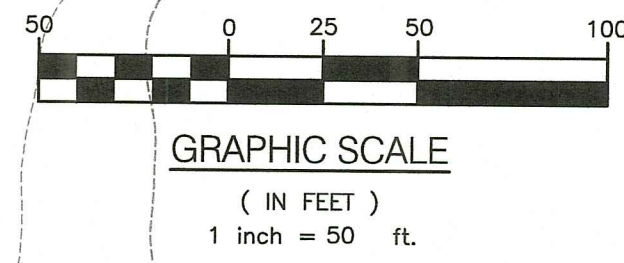
**C4.1**

SHEET: 5 OF 18



MATCHLINE EXISTING CONDITIONS PLAN NO. 2

MATCHLINE EXISTING CONDITIONS PLAN NO. 4



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DRAWING TITLE:

**EXISTING CONDITIONS PLAN NO.2**

DATE: NOVEMBER 2022 SCALE: 1"=50'  
 DWG. NAME: 2567-06-09-EX COND1-4.dwg

REVISIONS

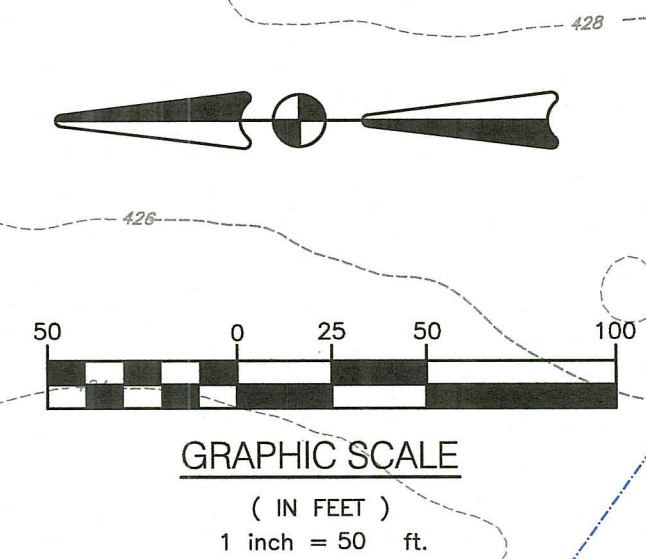
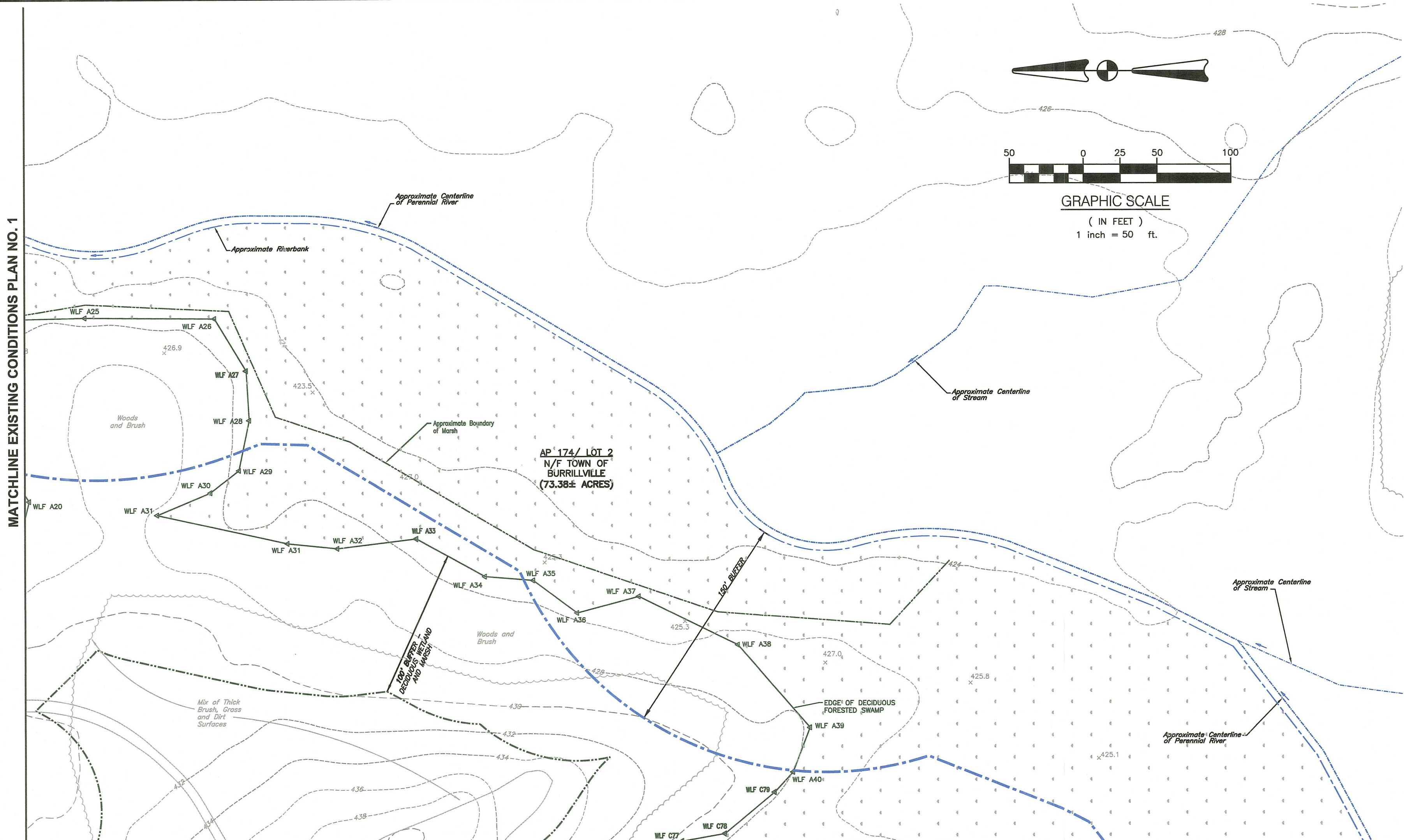
NUMBER	REMARKS	DATE
1	RIDEM COMMENTS	4/12/23

DRAWING NUMBER

**C4.2**

SHEET 6 OF 18

MATCHLINE EXISTING CONDITIONS PLAN NO. 1



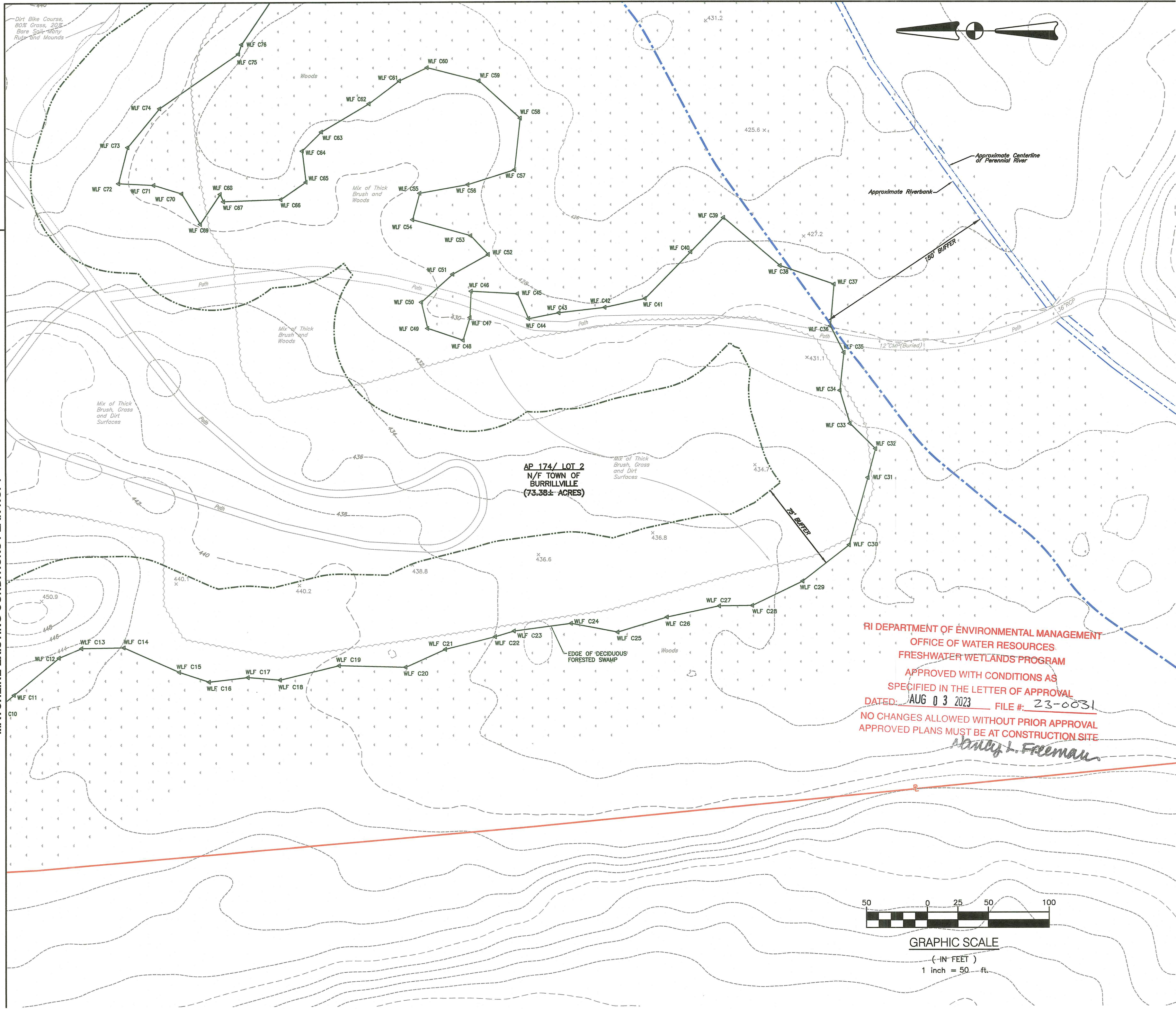
AP 174/ LOT 2  
 N/F TOWN OF BURRILLVILLE  
 (73.38± ACRES)

MATCHLINE EXISTING CONDITIONS PLAN NO. 3

MATCHLINE EXISTING CONDITIONS PLAN NO. 4

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED: AUG 03 2023 FILE #: 23-0031  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
*Nancy L. Freeman*

MATCHLINE EXISTING CONDITIONS PLAN NO. 2



MATCHLINE EXISTING CONDITIONS PLAN NO. 4



**CROSSMAN ENGINEERING**  
Rhode Island: 151 Centerville Road, Warwick, RI 02886, Phone: (401) 738-5660  
Massachusetts: 103 Commonwealth Avenue, North Attleboro, MA 02763, Phone: (508) 695-1700  
Email: cel@crossmaneng.com

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BRUCE G. HAGERMAN  
No. 5787  
REGISTERED PROFESSIONAL ENGINEER  
*Bruce G. Hagerman* 4/12/23

RI Environmental Management  
APR 14 2023  
Office of Water Resources

PROJECT TITLE:  
**RECREATION CENTER IMPROVEMENTS**  
A.P. 157, LOT 36  
A.P. 174, LOT 2  
300 CHURCH STREET  
BURRILLVILLE, RHODE ISLAND

PREPARED FOR:  
**TOWN OF BURRILLVILLE**  
  
105 HARRISVILLE MAIN STREET  
HARRISVILLE, RI 02830

DRAWING TITLE:  
**EXISTING CONDITIONS PLAN NO.3**  
DATE: NOVEMBER 2022 SCALE: 1"=50'  
DWG. NAME: 2567-06-09-EX COND1-4.dwg

REVISIONS

NUMBER	REMARKS	DATE
1	RIDEM COMMENTS	4/12/23

DRAWING NUMBER  
**C4.3**  
SHEET: 7 OF 18



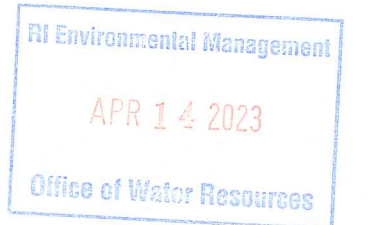
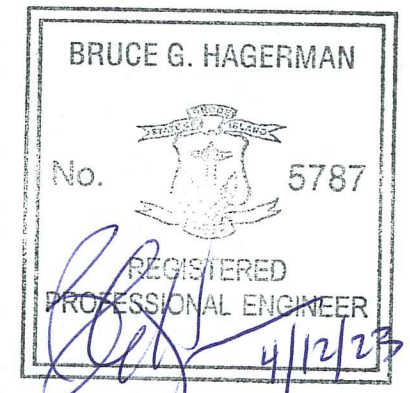
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PROJECT TITLE:

**RECREATION CENTER IMPROVEMENTS**

A.P. 157, LOT 36  
A.P. 174, LOT 2  
300 CHURCH STREET  
BURRILLVILLE, RHODE ISLAND

PREPARED FOR:

TOWN OF BURRILLVILLE



105 HARRISVILLE MAIN STREET  
HARRISVILLE, RI 02830

DRAWING TITLE:

**EXISTING CONDITIONS PLAN NO.4**

DATE: NOVEMBER 2022 SCALE: 1"=50'

DWG. NAME: 2567-06-09-EX COND1-4.dwg

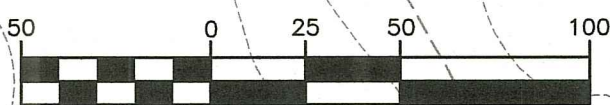
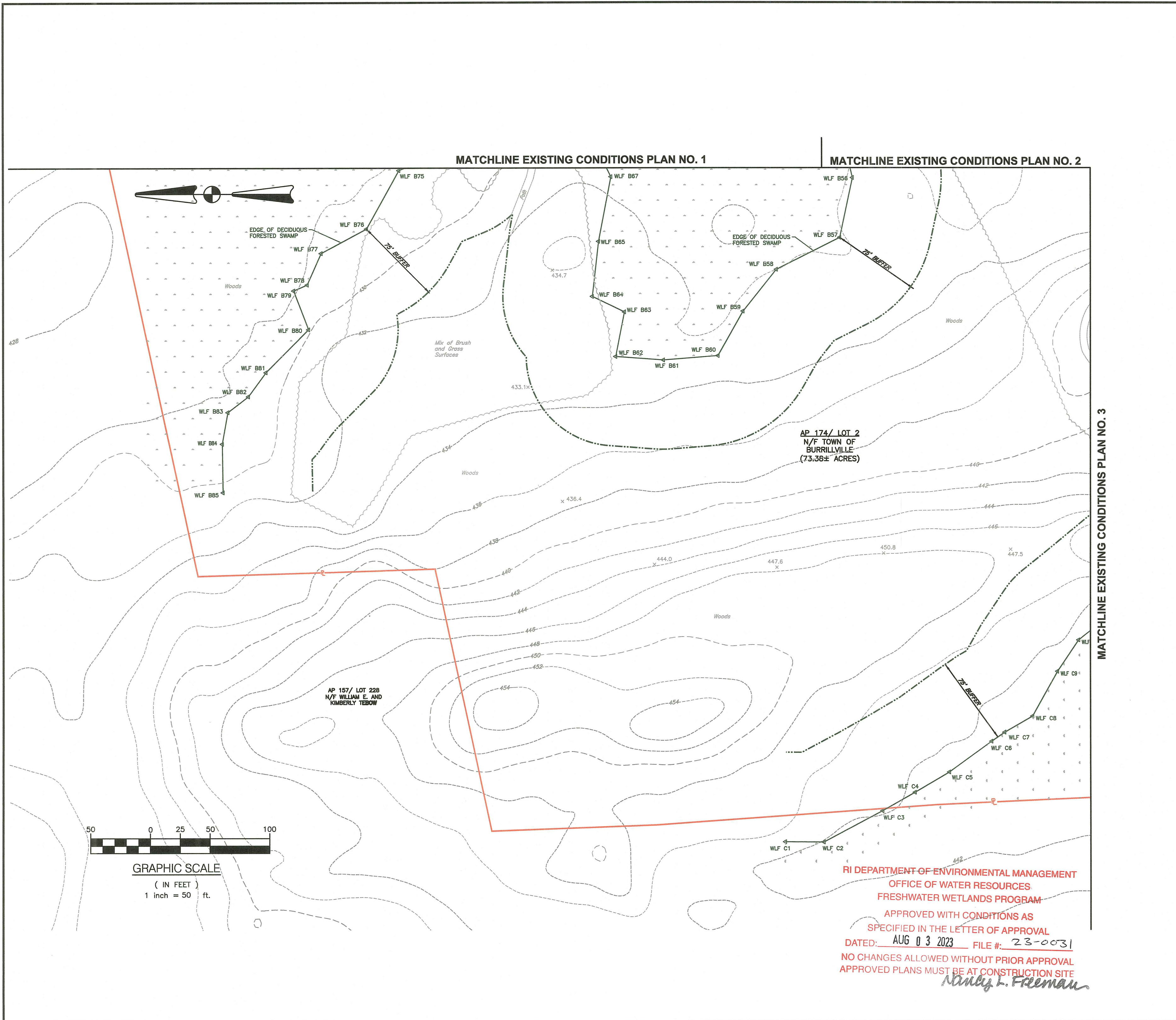
REVISIONS

NUMBER	REMARKS	DATE
1	RIDEM COMMENTS	4/12/23

DRAWING NUMBER

**C4.4**

SHEET: 8 OF 18



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

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM

APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED: AUG 03 2023 FILE #: 23-0031

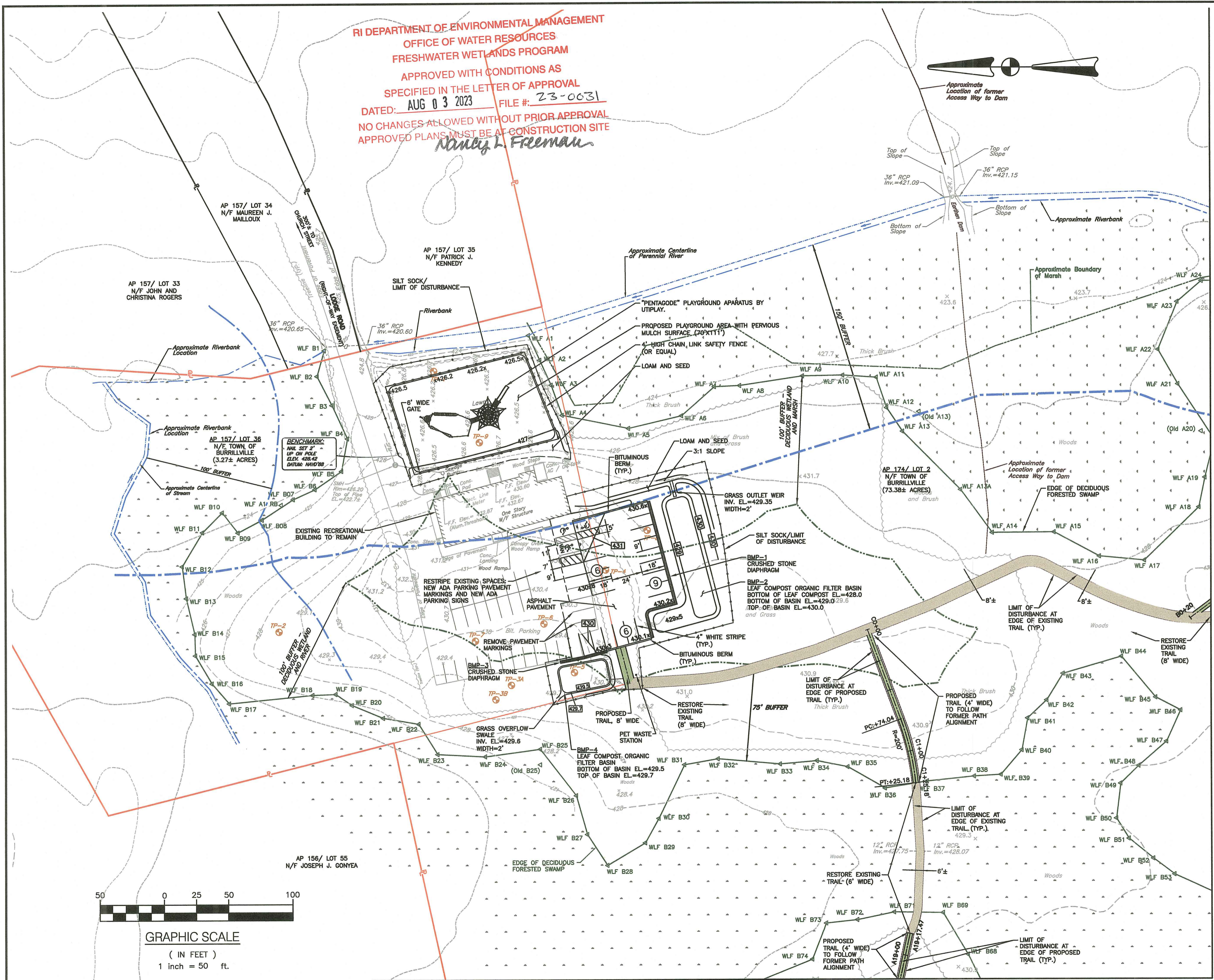
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Dorothy L. Freeman*

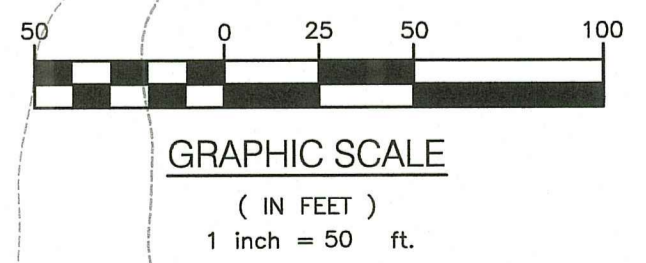
MATCHLINE EXISTING CONDITIONS PLAN NO. 1

MATCHLINE EXISTING CONDITIONS PLAN NO. 2

MATCHLINE EXISTING CONDITIONS PLAN NO. 3



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
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*Nancy L. Freeman*



MATCHLINE SITE PLAN NO. 2

MATCHLINE SITE PLAN NO. 4

**CROSSMAN ENGINEERING**  
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**BRUCE G. HAGERMAN**  
 No. 5787  
 REGISTERED PROFESSIONAL ENGINEER  
*[Signature]* 4/12/23

RI Environmental Management  
 APR 14 2023  
 Office of Water Resources

PROJECT TITLE:  
**RECREATION CENTER IMPROVEMENTS**  
 A.P. 157, LOT 36  
 A.P. 174, LOT 2  
 300 CHURCH STREET  
 BURRILLVILLE, RHODE ISLAND

PREPARED FOR:  
**TOWN OF BURRILLVILLE**  
  
 105 HARRISVILLE MAIN STREET  
 HARRISVILLE, RI 02830

DRAWING TITLE:  
**SITE PLAN NO.1**

DATE: NOVEMBER 2022 SCALE: 1"=50'  
 DWG. NAME: 2567-10-13-SITE1-4 50sc.dwg

REVISIONS		
NUMBER	REMARKS	DATE
1	RIDEM COMMENTS	4/12/23

DRAWING NUMBER  
**C5.1**  
 SHEET: 9 OF 18



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BRUCE G. HAGERMAN

No. 5787  
 REGISTERED PROFESSIONAL ENGINEER  
 4/12/23

RI Environmental Management  
 APR 14 2023  
 Office of Water Resources

PROJECT TITLE:  
**RECREATION CENTER IMPROVEMENTS**  
 A.P. 157, LOT 36  
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PREPARED FOR:  
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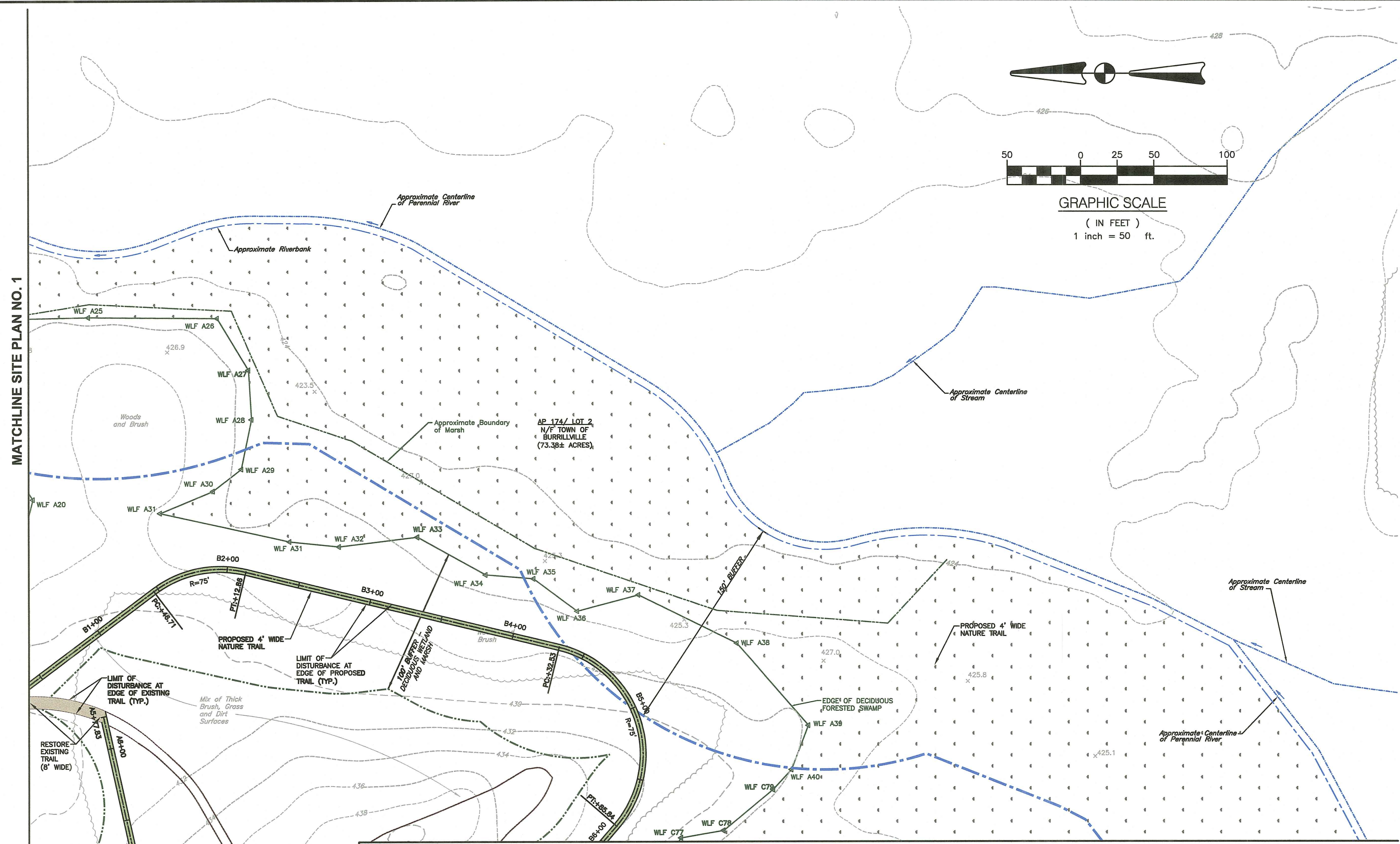
DRAWING TITLE:  
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DATE: NOVEMBER 2022 SCALE: 1"=50'  
 DWG. NAME: 2567-10-13-SITE1-4 50sc.dwg

REVISIONS	NUMBER	REMARKS	DATE
△	1	RIDEM COMMENTS	4/12/23

DRAWING NUMBER  
**C5.2**  
 SHEET: 10 OF 18

MATCHLINE SITE PLAN NO. 1

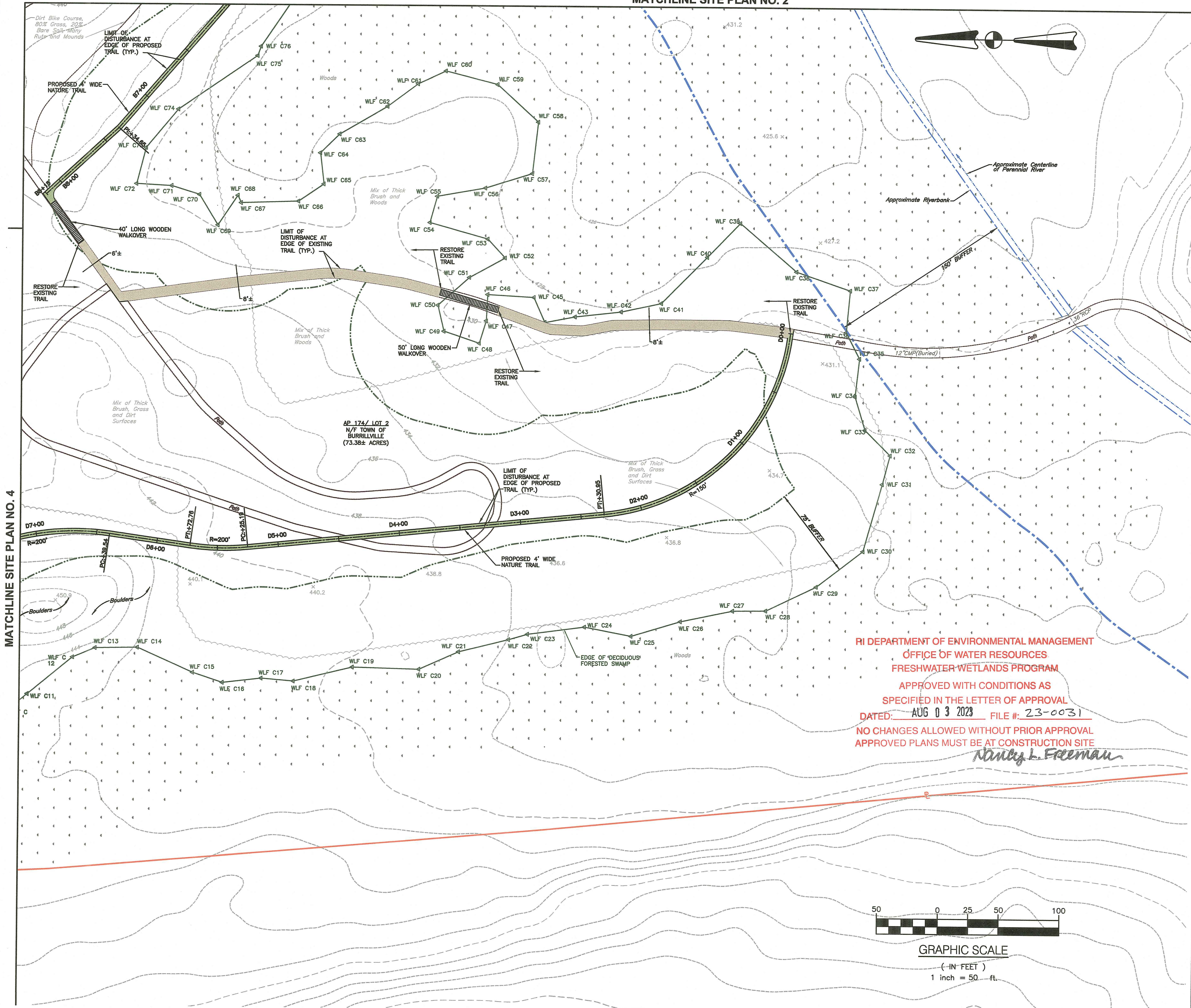


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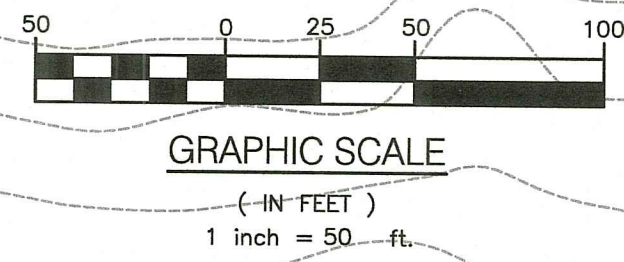
MATCHLINE SITE PLAN NO. 4

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS AS  
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 DATED: AUG 03 2023 FILE #: 23-0031  
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*M. Freeman*

MATCHLINE SITE PLAN NO. 2



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
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*Nancy L. Freeman*

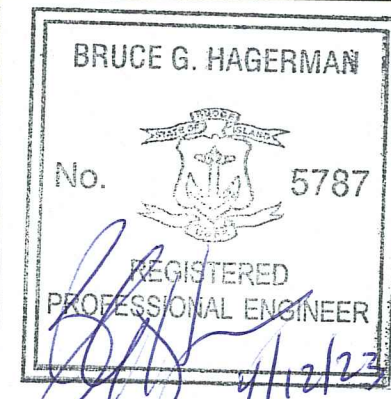


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RI Environmental Management  
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 Office of Water Resources

PROJECT TITLE:

**RECREATION CENTER IMPROVEMENTS**

A.P. 157, LOT 36  
 A.P. 174, LOT 2  
 300 CHURCH STREET  
 BURRILLVILLE, RHODE ISLAND

PREPARED FOR:

TOWN OF BURRILLVILLE



105 HARRISVILLE MAIN STREET  
 HARRISVILLE, RI 02830

DRAWING TITLE:

**SITE PLAN NO.3**

DATE: NOVEMBER 2022 SCALE: 1"=50'

DWG. NAME: 2567-10-13-SITE1-4 50sc.dwg

REVISIONS		
NUMBER	REMARKS	DATE
1	RIDEM COMMENTS	4/12/23

DRAWING NUMBER  
**C5.3**  
 SHEET: 11 OF 18

MATCHLINE SITE PLAN NO. 4



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BRUCE G. HAGERMAN  
 No. 5787  
 REGISTERED PROFESSIONAL ENGINEER  
 4/12/23

RI Environmental Management  
 APR 14 2023  
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PROJECT TITLE:  
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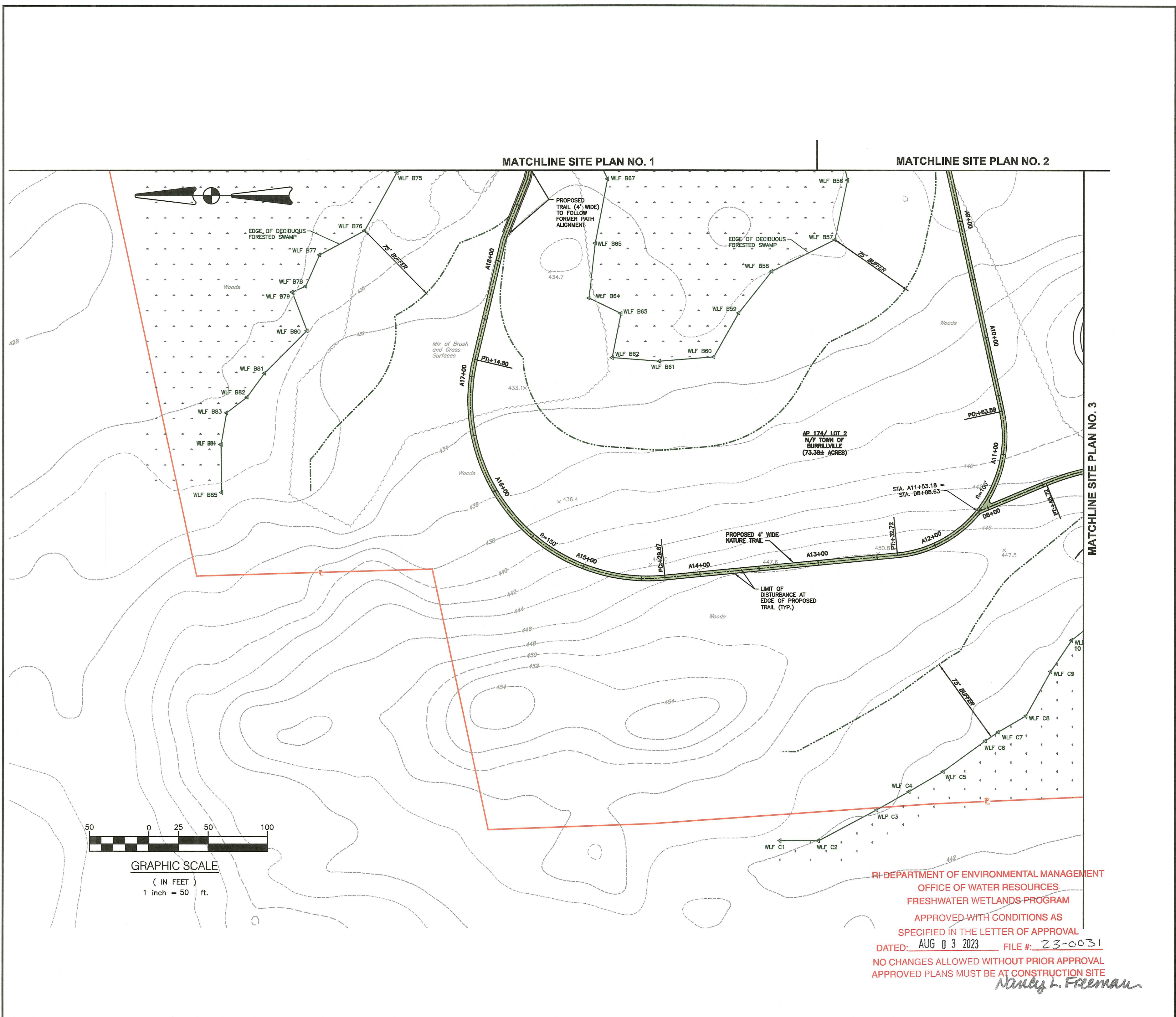
DRAWING TITLE:  
**SITE PLAN NO.4**

DATE: NOVEMBER 2022 SCALE: 1"=50'  
 DWG. NAME: 2567-10-13-SITE1-4 50sc.dwg

REVISIONS

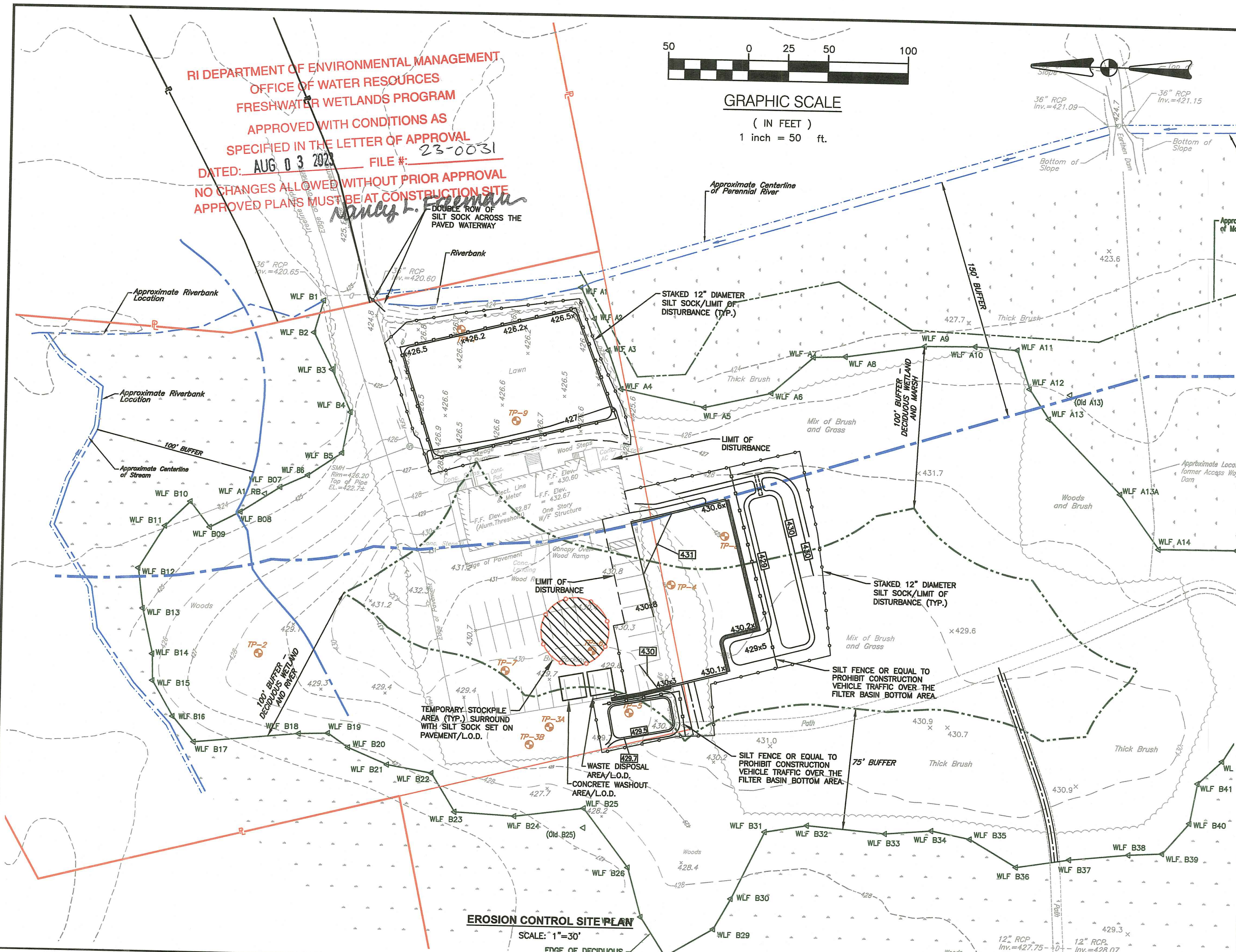
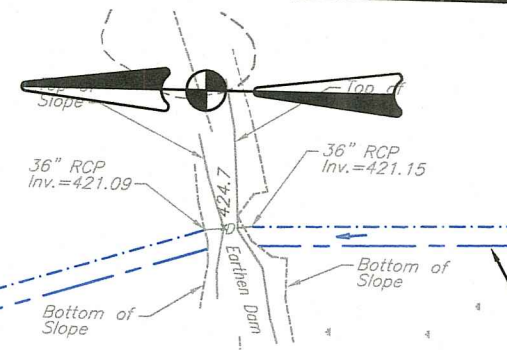
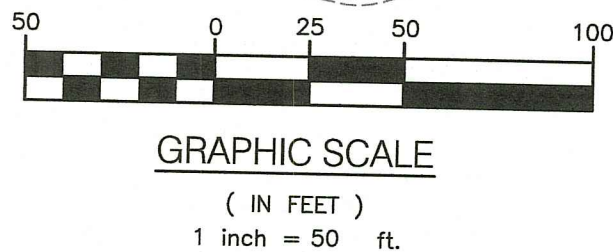
NUMBER	REMARKS	DATE
1	RIDEM COMMENTS	4/12/23

DRAWING NUMBER  
**C5.4**  
 SHEET 12 OF 18



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS  
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DATED: AUG 03 2023 FILE # 23-0031

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EROSION CONTROL SITE PLAN  
SCALE: 1"=30'

**NOTES:**

- CONTRACTOR SHALL INSTALL TEMPORARY MEASURES SUCH AS: FIBER MATTING, CRUSHED STONE, HAY OR STRAW IN AREAS WHERE SLOPES OR STABILIZATION HAS FAILED.
- CONTRACTOR SHALL INSTALL SILT SOCK INLET PROTECTION OR APPROVED EQUAL UNDER THE EXISTING CATCH BASIN GRATES AS NOTED ON THE SITE PLANS. REMOVE AFTER CONSTRUCTION.
- SILT SOCK SHALL BE INSTALLED AROUND THE PERIMETER OF THE AREA TO BE DISTURBED BY CONSTRUCTION AS NOTED ON THE PLANS. ADDITIONAL APPLICATIONS OF THESE CONTROLS MEASURES MAY BE REQUIRED DURING THE CONSTRUCTION PROCESS. THE CONTRACTOR SHALL INSPECT THE SITE AT A MINIMUM OF ONCE PER WEEK OR WITHIN 24 HOURS AFTER A STORM EVENT.
- IF EROSION OR EROSION TENDENCIES ARE APPARENT ON THE SITE, THE CONTRACTOR IS RESPONSIBLE TO INSTALL ADDITIONAL CONSTRUCTION BMP'S SUCH AS SAND BAGS AS DIRECTED BY THE OWNER, LOCAL MUNICIPALITY, STATE AGENCIES OR ENGINEER DURING CONSTRUCTION.
- IF SEDIMENT OR DEBRIS IS TRACKED ONTO EXISTING ROADWAYS AREAS ADJACENT TO THE CONSTRUCTION AREA, THE CONTRACTOR IS REQUIRED TO SWEEP THE PAVEMENT ON A DAILY BASIS. THE AREA SHALL BE INSPECTED DAILY.
- THE CONTRACTOR IS RESPONSIBLE TO KEEP THE SITE CLEAN OF TRASH. RECOMMENDED DAILY PATROL OF THE CONSTRUCTION SHOULD BE CONDUCTED TO PICK-UP TRASH. THE OPERATOR SHALL REQUIRE THE CONTRACTOR TO HAVE PORTABLE SANITARY FACILITIES ON SITE. ROUTING CLEANING AND WASTE DISPOSAL OF THESE PORTABLE SANITARY FACILITIES IS REQUIRED.

**RECEIVING WATER DATA:**

- WATERSHED BODY NAME - RI0001002R-05C CLEAR RIVER AND TRIBUTARIES FROM 1/2 MILE UPSTREAM OF WILSON RESERVOIR TO 1 MILE UPSTREAM OF CONFLUENCE WITH THE CHEPACHET RIVER (SOURCE: R.I.D.E.M.)
- TMDL: ENTEROCOCCUS
- GROUNDWATER CLASSIFICATION - GAA

**PROJECT DATA:**

- PARKING LOT, DRIVEWAY AND PLAYGROUND DISTURBED SOIL AREA = 0.65 ACRES
- 4' WIDE NATURE TRAIL DISTURBED SOIL AREA = 0.35 ACRES
- THE SITE IS NOT LOCATED WITHIN OR ADJACENT TO A RIDEM NATURAL HERITAGE AREA. (SOURCE: RIDEM)
- THE SITE IS NOT LOCATED WITHIN A WELLHEAD PROTECTION AREA. (SOURCE: R.I.D.E.M.)

**ADDITIONAL CONTROLS:**

- ALL TYPES OF WASTE GENERATED AT THE SITE SHALL BE DISPOSED OF IN A MANNER CONSISTENT WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
- THE CONTRACTOR IS REQUIRED TO NOTIFY LOCAL AUTHORITIES AND THE RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT, OFFICE OF WASTE MANAGEMENT, OF ANY HAZARDOUS MATERIAL SPILL.
- THE CONTRACTOR IS REQUIRED TO MAINTAIN THE SITE IN AN ORDERLY AND CLEAN STATE. ALL CONSTRUCTION WASTE SHALL BE STORED IN APPROPRIATE CONTAINERS PRIOR TO REMOVAL AND CONTACT WITH PRECIPITATION SHALL BE KEPT TO A MINIMUM.
- GENERAL MAINTENANCE PROCEDURES ARE OUTLINED IN THE ACCOMPANYING SITE PLANS. IN ADDITION, THE OPERATOR AND CONTRACTOR ARE REQUIRED TO INSPECT ALL EROSION CONTROLS ON THE SITE AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN TWENTY-FOUR (24) HOURS AFTER A RAIN EVENT, WHICH GENERATES 0.25 INCHES OF RAIN IN A TWENTY-FOUR (24) HOUR PERIOD AND/OR AFTER A SIGNIFICANT AMOUNT OF RUNOFF.
- CONCRETE WASHOUT SHALL BE PERFORMED USING ONE OF THE METHODS LISTED IN SECTION 3 OF THE RI SOIL EROSION AND SEDIMENT CONTROL HANDBOOK. THE WASHOUT AREAS ARE DESIGNATED ON THE SOIL EROSION AND SEDIMENT CONTROL PLAN.
- VEHICLE AND EQUIPMENT WASHING ON-SITE DURING CONSTRUCTION IS NOT ALLOWED.
- A SPILL RESPONSE KIT SHALL BE KEPT ON SITE AT ALL TIMES DURING CONSTRUCTION.

**SITE CONSTRUCTION SEQUENCE AND SCHEDULE:**

**PARKING LOT, PLAYGROUND AND DRIVEWAY CONSTRUCTION:**

- INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO ANY SOIL DISTURBANCE.
- PRIOR TO CONSTRUCTION CLEARLY MARK AREAS TO BE LEFT UNDISTURBED.
- CLEARING OF TREES AND VEGETATION AS SHOWN ON THE SITE PLANS.
- TOP SOIL TO BE STRIPPED AND STOCKPILED.
- ESTABLISH EROSION CONTROLS AROUND STOCKPILES (SILT SOCK). COVER STOCKPILES THAT WILL REMAIN FOR LONGER THAN ONE MONTH.
- PLAYGROUND, PARKING LOT AND DRAINAGE CONSTRUCTION.
- REMOVE AND DISPOSE EXISTING PAVEMENT.
- FINAL GRADING AND INSTALL FINAL PAVING.
- ESTIMATED DURATION OF SOIL EXPOSURE: 4 MONTHS

**NATURE TRAIL CONSTRUCTION:**

- FINALIZE TRAIL PATH ALIGNMENT TO AVOID LARGE DIAMETER TREES.
- CUT-BACK/TRIM VEGETATION WITHIN 8' CLEAR-ZONE.
- TILL 4' WIDE PATH AND COVER WITH MULCH WITHIN 5 DAYS. TRAIL CONSTRUCTION SHALL BE PERFORMED IN STAGES SO THAT DURATION OF SOIL EXPOSURE IS NO MORE THAN 5 DAYS.
- ESTIMATED DURATION OF SOIL EXPOSURE: NO MORE THAN 5 DAYS (ESTIMATED DURATION OF TRAIL CONSTRUCTION = 2 MONTHS).

**DUST CONTROL NOTES:**

ON AN AS-NEEDED BASIS OR AS DIRECTED BY THE ENGINEER OR OWNER THE CONTRACTOR SHALL UTILIZE ONE OF THE FOLLOWING METHODS (AS RECOMMENDED BY THE "RI. SOIL EROSION AND SEDIMENT CONTROL HANDBOOK") TO CONTROL DUST:

A. THE EXPOSED SOIL SURFACE SHOULD BE MOISTENED PERIODICALLY WITH ADEQUATE WATER TO CONTROL DUST.

THE METHODS SHOULD BE REPEATED AS NEEDED, AND SPECIAL ATTENTION MUST BE GIVEN TO THE ACCESS DRIVES.

**INSPECTION/MAINTENANCE NOTES:**

- EXTREME CARE SHALL BE EXERCISED SO AS TO PREVENT ANY UNSUITABLE MATERIAL FROM ENTERING DRAINAGE SYSTEMS, WETLANDS AND WATERWAYS.
- ALL DISTURBED AREAS WHICH BECOME SUBJECT TO EROSION TENDENCIES WHETHER THEY BE NEWLY FILLED OR EXCAVATED SHALL RECEIVE SLOPE PROTECTION - SUCH AS RIP-RAP.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING PERIODS OF RAINFALL.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EROSION CONTROL MAINTENANCE AND SHALL INSPECT / REPAIR / REPLACE DAILY DURING CONSTRUCTION, FOLLOWING RAINFALL AND WEEKLY DURING NON CONSTRUCTION PERIODS.
- ADDITIONAL EROSION CONTROLS SHALL BE LOCATED AS CONDITIONS WARRANT OR AS DIRECTED BY THE OWNER, MUNICIPAL REPRESENTATIVES, STATE AGENCIES OR ENGINEER.
- THE "RI. SOIL EROSION AND SEDIMENT CONTROL HANDBOOK" PREPARED BY THE U.S. DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE, REVISED 2014 (LATEST REVISION), MUST BE UTILIZED BY THE CONTRACTOR AS A GUIDE.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL DUST CONTROL AND FOR THE ENTIRE PROJECT DURATION, INCLUDING TEMPORARY SHUT-DOWN PERIODS, MUST MONITOR AND REPAIR, AS NEEDED, ALL SLOPES TO ENSURE THE SITE IS STABLE.

**GENERAL PROJECT WIDE NOTES:**

- SILT SOCK AND SILT SACK IN CATCH BASINS SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, MAINTAINED ON A REGULAR BASIS, AND SHALL BE PLACED TO PREVENT SEDIMENTATION ONTO ADJACENT PROPERTY, ROADWAYS, WETLANDS AND WATERWAYS.
- THE CONTRACTOR MUST REPLACE AND/OR RESEED ANY VEGETATION THAT DOES NOT DEVELOP/SURVIVE WITHIN THE PERIOD OF ONE YEAR AND HE SHALL DO SO AT NO ADDITIONAL EXPENSE TO THE OWNER.
- ALL SILT SOCK OR TEMPORARY PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED AND POTENTIAL SEDIMENTATION SOURCES ARE REMOVED.
- TREES AND OTHER EXISTING VEGETATION SHALL BE RETAINED WHENEVER FEASIBLE. THE AREA BEYOND THE DRIPLINE SHALL BE FENCED OR ROPED OFF TO PROTECT TREES FROM CONSTRUCTION EQUIPMENT.
- AREAS DAMAGED DURING CONSTRUCTION SHALL BE RESEDED, RESEEDING, OR OTHERWISE RESTORED AT THE CONTRACTOR'S EXPENSE.
- STOCKPILES SHALL HAVE NO SLOPE STEEPER THAN 2:1 AND SHALL BE SURROUNDED BY STAKED SILT SOCK OR COVERED.
- STOCKPILES EXPOSED FOR EXCESSIVE PERIODS SHALL RECEIVE TEMPORARY TREATMENT CONSISTING OF HAY, STRAW, FIBER MATTING, COVERED WITH TARPS, OR APPROVED EQUAL.
- SILT FENCE MAY BE USED IN LIEU OF THE SILT SOCK WHERE APPROVED BY THE ENGINEER.

**EROSION CONTROL AND SOIL STABILIZATION PROGRAM:**

- EXTREME CARE SHALL BE EXERCISED SO AS TO PREVENT ANY UNSUITABLE MATERIAL FROM ENTERING THE DRAINAGE SYSTEM, EXISTING RACEWAY, ADJACENT PROPERTY, AND ROADWAYS.
- TEMPORARY TREATMENTS SHALL CONSIST OF A HAY, STRAW, RIPRAP OR FIBER MULCH PROTECTIVE COVERS, SUCH AS A MAT OR FIBER LINING (BURLAP, JUTE, FIBERGLASS NETTING, EXCELSIOR BLANKETS). THEY SHALL BE INCORPORATED INTO THE WORK AS WARRANTED OR AS ORDERED BY THE OWNER.
- HAY OR STRAW APPLICATIONS SHALL BE IN THE AMOUNT OF 3,000-4,000 LBS/ACRE.
- STOCKPILES SHALL HAVE NO SLOPE STEEPER THAN 2:1 AND SHALL BE SURROUNDED BY STAKED SILT SOCKS OR COVERED.
- STOCKPILES EXPOSED FOR EXCESSIVE PERIODS SHALL RECEIVE TEMPORARY TREATMENT CONSISTING OF HAY, STRAW, FIBER MATTING OR COVERED WITH TARPS.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EROSION CONTROL MAINTENANCE AND SHALL INSPECT/REPLACE AS NEEDED.
- ADDITIONAL EROSION CONTROLS SHALL BE LOCATED AS CONDITIONS WARRANT OR AS DIRECTED BY THE ENGINEER, OWNER, MUNICIPAL REPRESENTATIVES OR STATE AGENCIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING DUST CONTROL AT NO ADDITIONAL COST TO THE OWNER.
- THE CATCH BASINS ADJACENT TO THE CONSTRUCTION AREA SHALL BE PROTECTED USING SILT SOCKS OR SILT SOCK INLET PROTECTION, AS NOTED.
- ALL PROPOSED CATCH BASINS SHALL BE PROTECTED BY SILT SOCKS OR SILT SACKS.
- SILT SOCK MAY BE INSTALLED ON THE EXISTING PAVEMENT/IMPERVIOUS AREAS WITH OILT STAKES. CONTRACTOR SHALL INSPECT DAILY, IF SOIL EROSION OR SEDIMENT IS OBSERVED IN THESE AREAS, THE CONTRACTOR SHALL RELOCATE OR INSTALL ADDITIONAL FILTREXX FILTER SOCKS IN LOCATIONS THAT CAN BE STAKED. THIS WORK IS INCLUDED IN THE PROJECT SCOPE.
- POLYMERS, FLOCCULANTS, OR OTHER TREATMENT CHEMICALS MUST NOT BE USED ON THIS PROJECT FOR DUST, SEDIMENTATION AND EROSION CONTROL. WATER WILL BE USED FOR DUST CONTROL AND EROSION WILL BE CONTROLLED USING THE PROPOSED EROSION CONTROLS, AND TEMPORARY STABILIZATION TECHNIQUES.

**CROSSMAN ENGINEERING**

Rhode Island  
151 Centerville Road  
Warwick, RI 02886  
Phone: (401) 738-5660

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Email: cel@crossmaneng.com

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BRUCE G. HAGERMAN  
No. 5787  
REGISTERED PROFESSIONAL ENGINEER  
4/12/23

RI Environmental Management  
APR 14 2023  
Office of Water Resources

PROJECT TITLE:

**RECREATION CENTER IMPROVEMENTS**

A.P. 157, LOT 36  
A.P. 174, LOT 2  
300 CHURCH STREET  
BURRILLVILLE, RHODE ISLAND

PREPARED FOR:

**TOWN OF BURRILLVILLE**

105 HARRISVILLE MAIN STREET  
HARRISVILLE, RI 02830

DRAWING TITLE:

**SOIL EROSION AND SEDIMENT CONTROL PLAN**

DATE: NOVEMBER 2022 SCALE: AS NOTED

DWG. NAME: 2567-14-SOIL.dwg

REVISIONS

NUMBER	REMARKS	DATE
1	RIDEM COMMENTS	4/12/23

DRAWING NUMBER

**C6.0**

SHEET: 13 OF 18

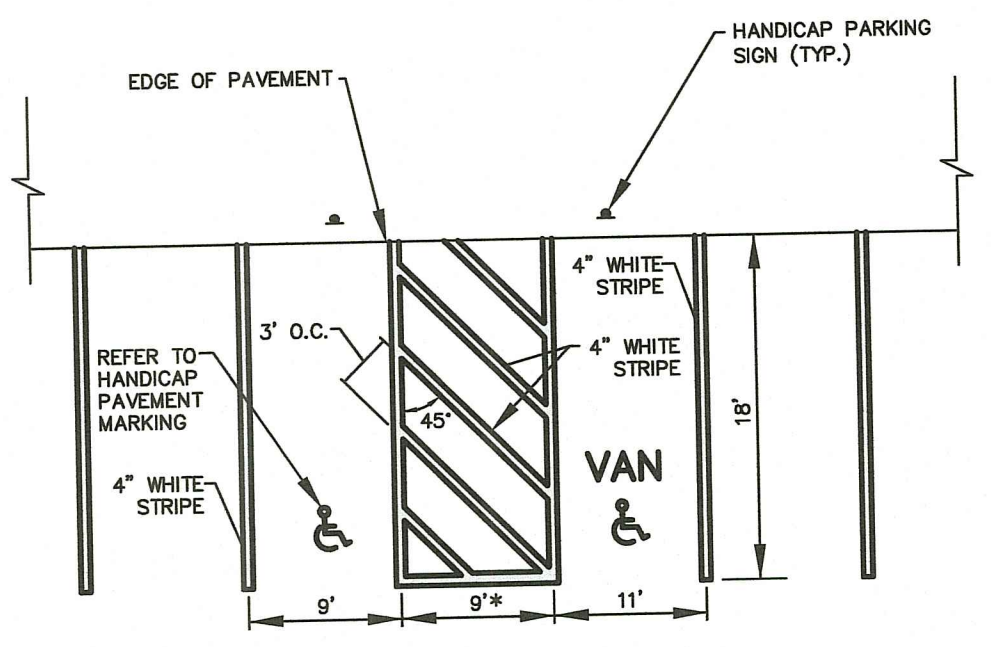


- NOTE:**
1. ALL LETTERS ARE 1" SERIES "C" PER THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.).
  2. SIGN SHALL BE REFLECTORIZED (ENGINEERING GRADE) BLUE BACKGROUND WITH WHITE REFLECTORIZED LEGEND AND BORDER.
  3. CONTRACTOR SHALL VERIFY THE POSTED "FINE" AMOUNT WITH THE BUILDING OFFICIAL PRIOR TO INSTALLATION.
  4. ONE (1) SIGN REQUIRED FOR EACH PARKING SPACE.
  5. INSTALLED HEIGHT OF SIGN SHALL BE IN ACCORDANCE WITH SECTION 24-23 OF THE M.U.T.C.D.
  6. SIGN MAY BE MOUNTED ON BUILDING/WALL, AT PROPER HEIGHT, ALIGNED WITHIN 12" OF CENTER OF THE PARKING SPACE.
  7. ALL HANDICAP PARKING AND SIGNAGE SHALL BE IN ACCORDANCE WITH THE LOCAL AND STATE BUILDING CODE.

**SIGN NOTES:**

1. SIGN POSTS SHALL BE GALVANIZED STEEL U-CHANNEL (3 1/2" WIDE-MIN.) AND INSTALLED IN CONFORMANCE WITH MUTCD AND LOCAL STANDARDS AND SPECIFICATIONS.
2. POSTS SHALL BE DRIVEN TO A DEPTH OF 4 FEET (MIN.)
3. THE EDGE OF THE SIGN SHALL BE 18" FROM THE FACE OF THE CURB.
4. WITHIN SIDEWALK LOCATIONS THE SIGN POST WILL BE INSTALLED WITHIN A 8"x8"x6" SQUARE BOX FORM.

**PROPOSED HANDICAPPED PARKING SIGNS**  
NOT TO SCALE

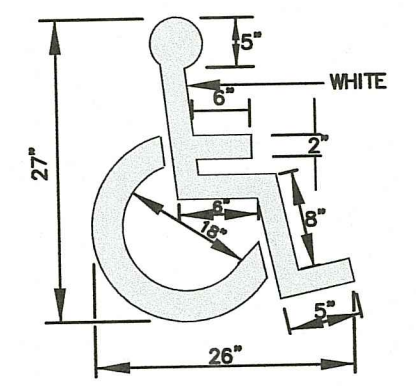


\*VARIES, REFER TO SITE LAYOUT PLANS.

**NOTE:**

1. ALL HANDICAP PARKING SPACES SHALL BE IN ACCORDANCE WITH THE LOCAL AND STATE BUILDING CODE AND ADA REQUIREMENTS.

**HANDICAP PARKING STALLS**  
NOT TO SCALE

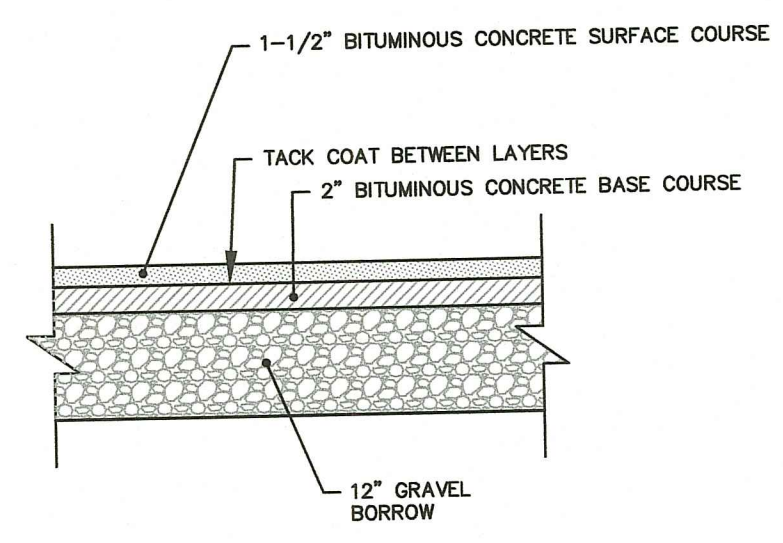


**NOTE:**

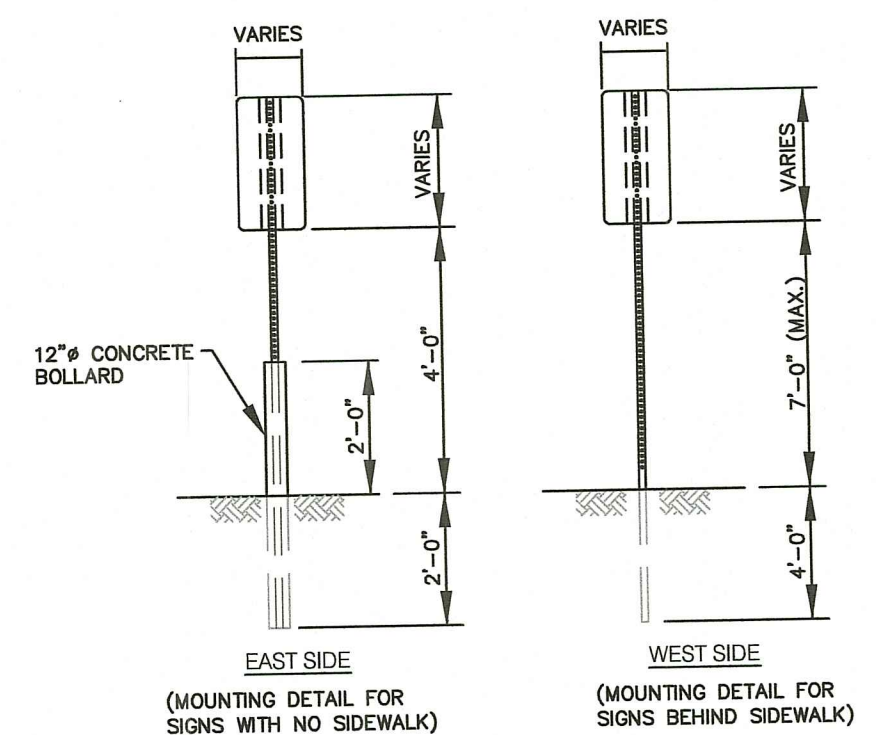
1. ALL HANDICAP PARKING SPACES SHALL BE IN ACCORDANCE WITH THE LOCAL AND STATE BUILDING CODE AND ADA REQUIREMENTS.

**HANDICAP PAVEMENT MARKING**  
NOT TO SCALE

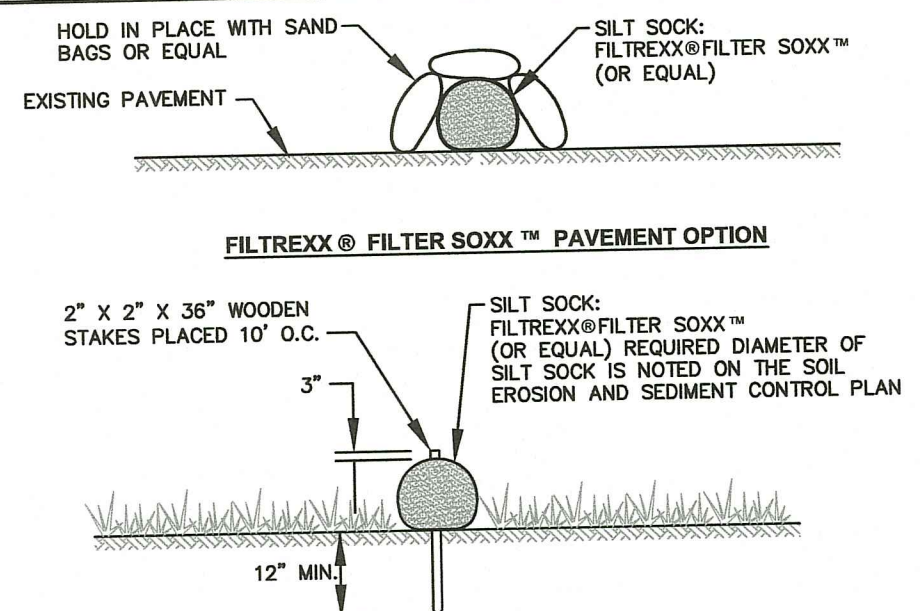
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS  
SPECIFIED IN THE LETTER OF APPROVAL  
DATED: AUG 03 2023 FILE #: 23-0031  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
*Nancy L. Freeman*



**TYPICAL BITUMINOUS PAVEMENT STRUCTURE SECTION**  
NOT TO SCALE



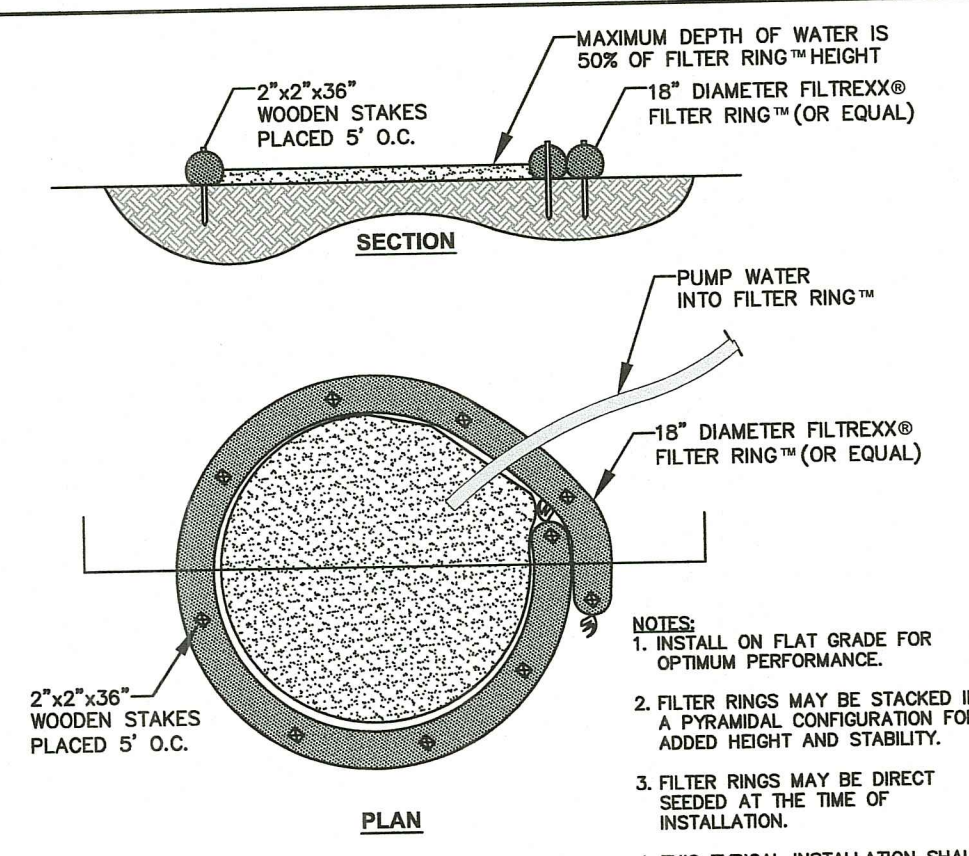
**SIGN MOUNTING DETAIL**  
NOT TO SCALE



**NOTE:**

1. SILT FENCE MAY BE USED IN LIEU OF SILT SOCK.
2. CONTRACTOR IS RESPONSIBLE TO BECOME FAMILIAR WITH THE FILTREXX PRODUCTS (OR EQUAL) AND COORDINATE INSTALLATION SCHEDULES AND METHODS WITH THE ENGINEER PRIOR TO PLACEMENT.
3. ALL MATERIAL SHALL MEET FILTREXX SPECIFICATIONS.
4. COMPOST MATERIAL CAN BE DISPERSED ON SITE OR LEGALLY DISPOSED OFFSITE AS REQUESTED BY THE OWNER.

**SILT SOCK PERIMETER EROSION CONTROL DETAIL**  
NOT TO SCALE



**NOTES:**

1. INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE.
2. FILTER RINGS MAY BE STACKED IN A PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT AND STABILITY.
3. FILTER RINGS MAY BE DIRECT SEEDED AT THE TIME OF INSTALLATION.
4. THIS TYPICAL INSTALLATION SHALL BE USED FOR DEWATERING OPERATIONS.
5. DEWATERING FILTER BAGS MAY BE USED IN LIEU OF THE FILTER RING.

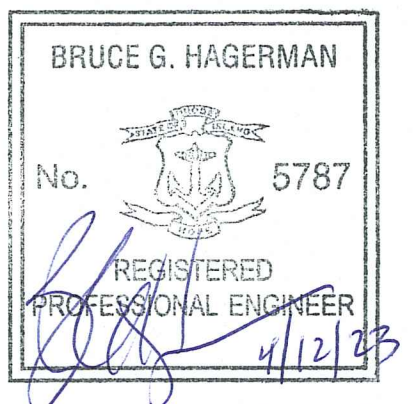
**DEWATERING BASIN DETAIL**  
NOT TO SCALE



**CROSSMAN ENGINEERING**

Rhode Island: 151 Centerville Road, Warwick, RI 02886, Phone: (401) 738-5660  
Massachusetts: 103 Commonwealth Avenue, North Attleboro, MA 02763, Phone: (508) 695-1700  
Email: cel@crossmaneng.com

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RI Environmental Management  
APR 14 2023  
Office of Water Resources

**PROJECT TITLE:**

**RECREATION CENTER IMPROVEMENTS**  
A.P. 157, LOT 36  
A.P. 174, LOT 2  
300 CHURCH STREET  
BURRILLVILLE, RHODE ISLAND

**PREPARED FOR:**

TOWN OF BURRILLVILLE



105 HARRISVILLE MAIN STREET  
HARRISVILLE, RI 02830

**DRAWING TITLE:**

**MISCELLANEOUS DETAIL PLAN NO.1**

DATE: NOVEMBER 2022 SCALE: AS NOTED

DWG. NAME: 2567-15-DET01.dwg

**REVISIONS**

NUMBER	REMARKS	DATE
1	RIDEM COMMENTS	4/12/23

**DRAWING NUMBER**

**C7.1**

SHEET: 14 OF 18



**CROSSMAN ENGINEERING**

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RI Environmental Management  
 APR 14 2023  
 Office of Water Resources

**PROJECT TITLE:**  
**RECREATION CENTER IMPROVEMENTS**  
 A.P. 157, LOT 36  
 A.P. 174, LOT 2  
 300 CHURCH STREET  
 BURRILLVILLE, RHODE ISLAND

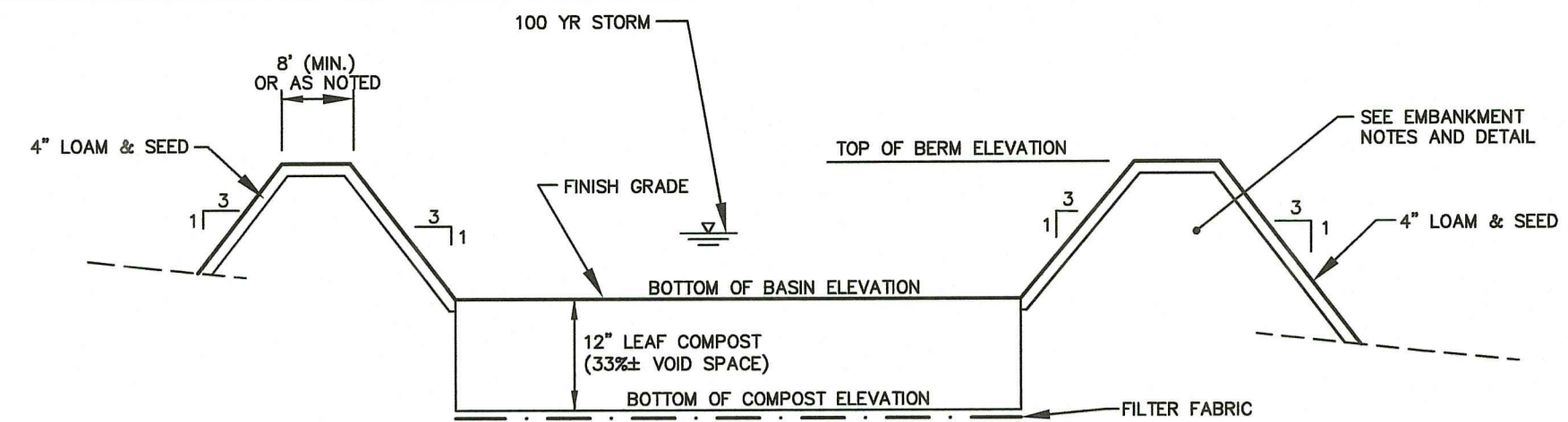
**PREPARED FOR:**  
**TOWN OF BURRILLVILLE**  
  
 105 HARRISVILLE MAIN STREET  
 HARRISVILLE, RI 02830

**DRAWING TITLE:**  
**MISCELLANEOUS DETAIL PLAN NO.2**

**DATE:** NOVEMBER 2022 **SCALE:** AS NOTED  
**DWG. NAME:** 2567-16-DET02.dwg

NUMBER	REMARKS	DATE
1	RIDEM COMMENTS	4/12/23

**DRAWING NUMBER**  
**C7.2**  
 SHEET: 15 OF 18



- NOTES:**
- NO RUNOFF IS TO ENTER THE FILTER UNTIL ALL CONTRIBUTING DRAINAGE AREAS HAVE BEEN STABILIZED. THE SAND FILTER SHALL BE PROTECTED (SURROUNDED) WITH COMPOST FILLED SILT SOCK UNTIL ALL CONTRIBUTING DRAINAGE AREAS HAVE BEEN STABILIZED.
  - FILTER FABRIC SHALL BE MIRAFI 140N OR APPROVED EQUAL.

**ELEVATION SUMMARY**

FILTER	TOP OF BERM	BOTTOM OF BASIN	FILTER DEPTH	BOTTOM OF COMPOST	SHGWT	LEDGE ELEV.	100-YR STORM
BMP-2	430.0	429.0	1.0'	428.0	425 (TP-8)	422.6 TO 424.3 (TP#8)	429.77
BMP-4	429.7	429.5	1.0'	428.5	427.4 (TP-5)	427.4 (TP#5)	429.57

**BMP-2 BASIN SUMMARY**

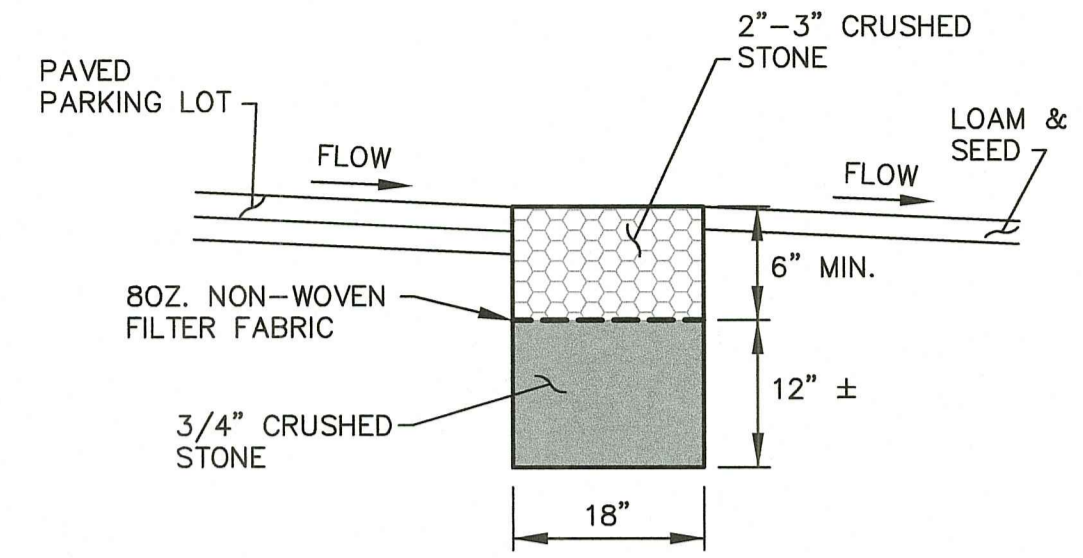
CONTOUR	AREA (SF)	VOLUME (CF)
428	1,688	0
429	1,688	557
430	2,822	2,812

MINIMUM STORAGE VOLUME BELOW OUTLET INVERT ELEV.=1,543 C.F.

**BMP-4 BASIN SUMMARY**

CONTOUR	AREA (SF)	VOLUME (CF)
428.5	734	0
429.5	734	242
429.7	844	400

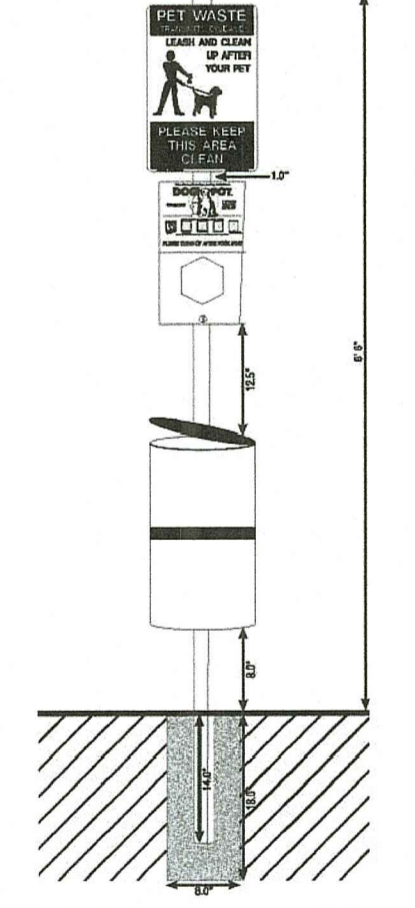
**BMP-2 AND BMP-4 LEAF COMPOST ORGANIC FILTER BASIN DETAILS**  
 NOT TO SCALE



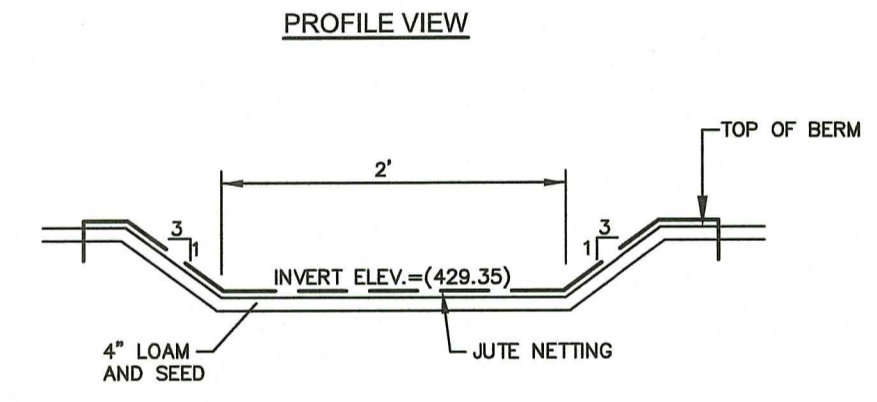
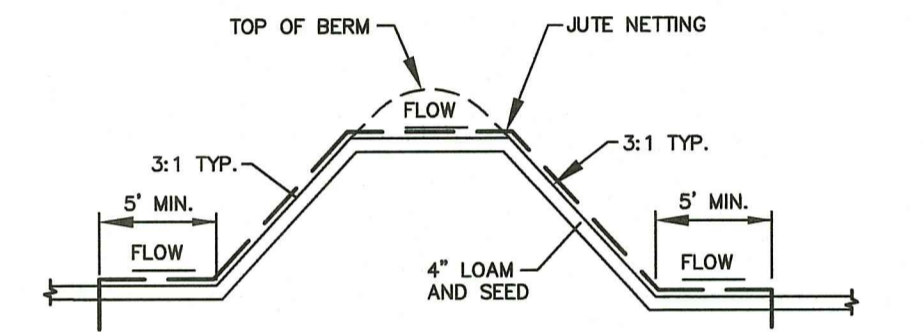
**BMP-1 AND BMP-3 CRUSHED STONE DIAPHRAGM DETAIL**  
 NOT TO SCALE

**BELSON OUTDOORS**  
 Model # DP-1003HP-L  
 Dimension Sheet  
 627 Amersale Drive, Naperville, IL 60563  
 Phone: (800) 323-5684  
 Fax: (630) 697-0573  
 sales@belson.com

**Header Pak Pet Waste Disposal Station**

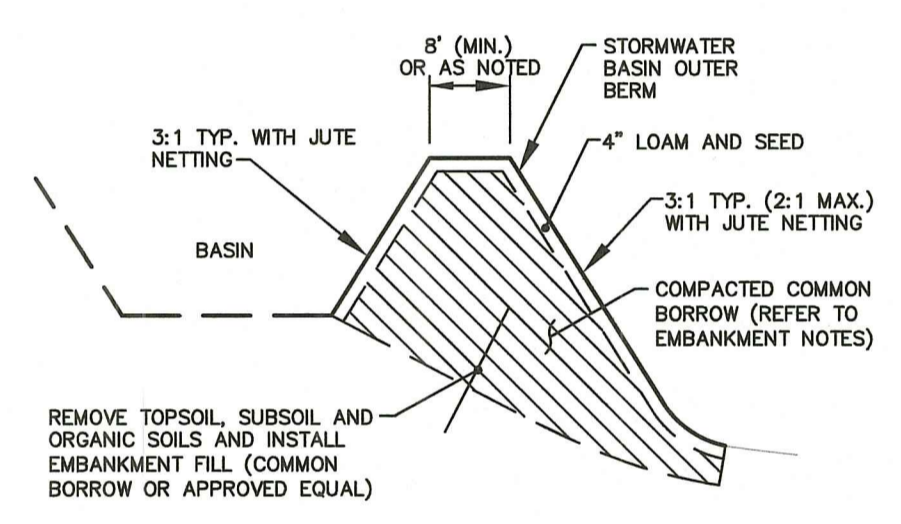


**PET WASTE STATION DETAIL**  
 NOT TO SCALE



**GRASS OUTLET WEIR DETAIL**  
 NOT TO SCALE

**RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**  
**OFFICE OF WATER RESOURCES**  
**FRESHWATER WETLANDS PROGRAM**  
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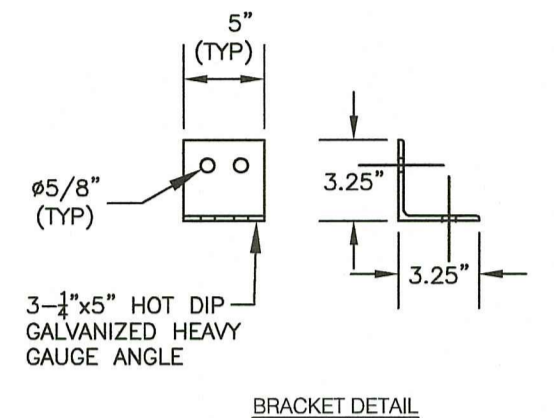
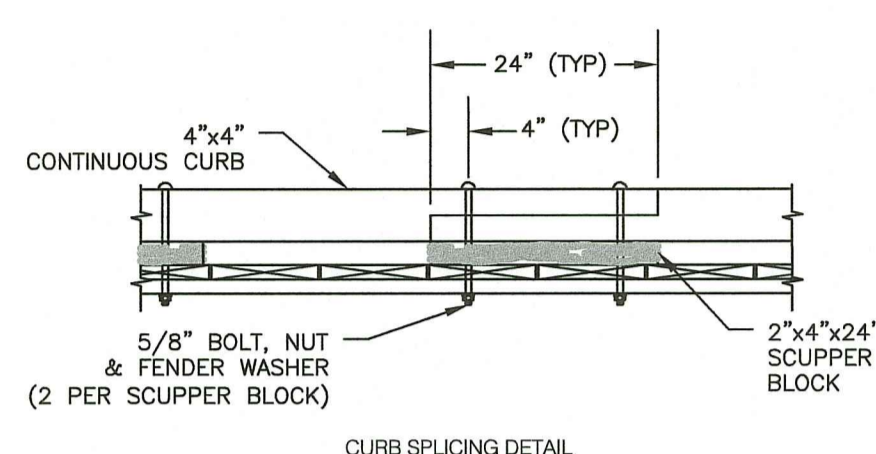
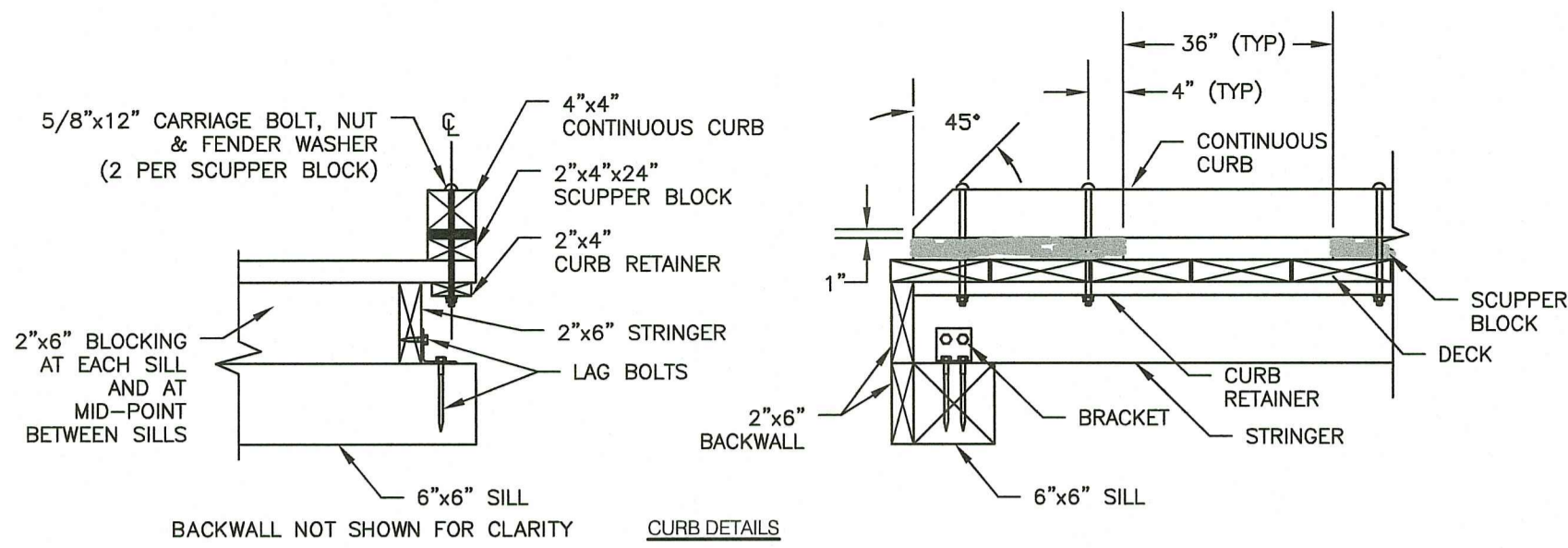
- NOTES:**
- USE ANTI-SEEP COLLAR AROUND ALL OUTLET PIPES.

**EMBANKMENT CONSTRUCTION DETAIL - SCHEMATIC**  
 NOT TO SCALE

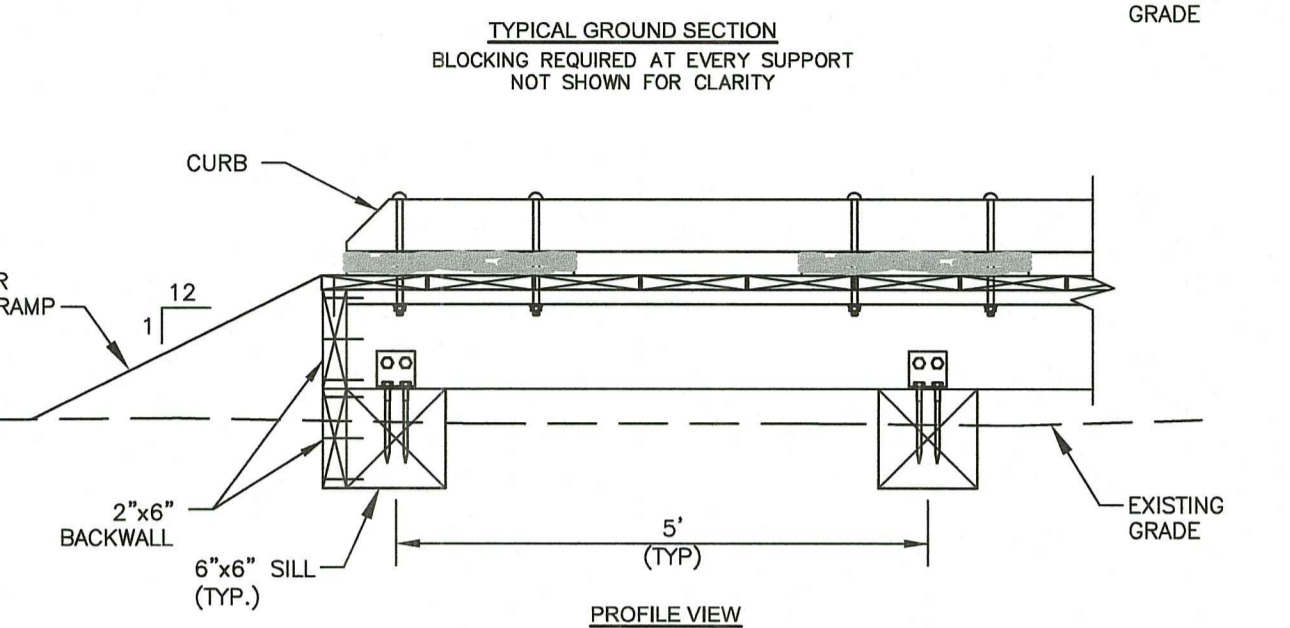
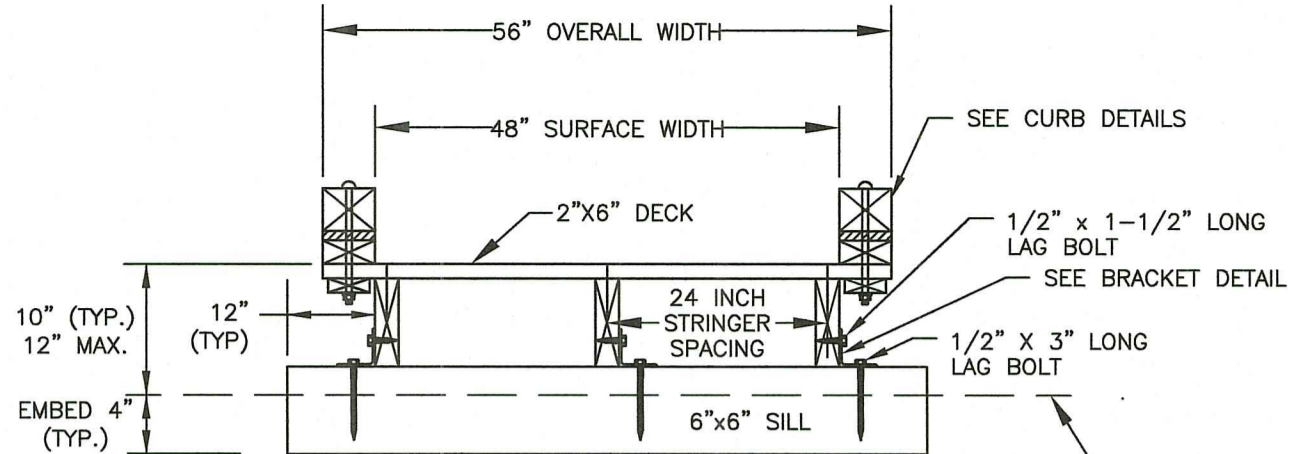
- STORMWATER BASIN EMBANKMENT NOTES:**
- THE DETENTION AND INFILTRATION BASIN EMBANKMENTS ARE TO BE CONSTRUCTED WITH APPROVED COMMON BORROW. NO SOIL/ROCK GRATER THAN 3" SHALL BE UTILIZED. COMMON BORROW SHALL MEET OR EXCEED AN IN-PLACE DENSITY OF 100 lb./cf. ALL MATERIAL SHALL BE PLACED IN 8 TO 12 INCH LIFTS AND COMPACTED TO 95% MAXIMUM DENSITY. FILL MATERIAL WILL NOT CONTAIN FROZEN MATERIALS OR BE PLACED ON FROZEN SURFACES. COMMON BORROW SHALL MEET MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS.
  - UPON COMPLETION OF CLEARING AND GRUBBING OPERATIONS, THE EMBANKMENT AREAS ARE TO BE EXCAVATED. IF ANY ORGANIC OR UNSUITABLE MATERIAL IS ENCOUNTERED, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR REVIEW OF EXCAVATION AREA. THE DEPTH OF EXCAVATION WILL BE DETERMINED BY THE ENGINEER BASED UPON THE LOCAL CONDITIONS. NO FILL MATERIAL SHALL BE PLACED UNTIL THE FOUNDATION PREPARATION HAS BEEN COMPLETED. ALL WATER SHALL BE REMOVED FROM THE FOUNDATION PRIOR TO PLACING THE EMBANKMENT.
  - THE FILL MATERIAL MUST BE SPREAD IN UNIFORM LAYERS AND FALL WITHIN THE SPECIFIED OPTIMUM WATER CONTENT RANGE IN ORDER TO ACHIEVE THE REQUIRED COMPACTION. EACH LAYER IS TO BE COMPACTED PRIOR TO LAYING AN ADDITIONAL LAYER. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER HIS SELECTED METHOD OF COMPACTION, COMPACTION EQUIPMENT AND THE SEQUENCE OF OPERATIONS NECESSARY TO OBTAIN THE REQUIRED DENSITY. THE WATER CONTENT AT COMPACTION SHALL BE IN THE RANGE BETWEEN ONE PERCENTAGE POINT BELOW AND TWO PERCENTAGE POINTS ABOVE STANDARD AASHTO OPTIMUM WATER CONTENT. THE MATERIAL SHALL BE PROCESSED TO A UNIFORM WATER CONTENT BY ADDING WATER TO THE MATERIAL IN ADVANCE OF THE FILL PLACEMENT.
  - BACKFILL MATERIAL AROUND STRUCTURES AND PIPE IS TO BE PLACED TO PREVENT THE MOVEMENT OF WATER. THE OPTIMUM WATER CONTENT MUST BE MAINTAINED IN THE SAME RANGE AS IN THE EMBANKMENT. THE BACKFILL MUST BE PLACED IN LAYERS LESS THAN 4 INCHES IN THICKNESS AND DISTRIBUTED UNIFORMLY AROUND THE STRUCTURE/PIPE. ALL COMPACTION WILL BE TO 95% MAXIMUM DENSITY AND MAY REQUIRE HAND TAMPERS OR SMALL POWER EQUIPMENT.
  - EMBANKMENT DAMAGE COMMONLY RESULTS FROM IMPROPER CONSTRUCTION OF CONDUIT AND STRUCTURAL BACKFILL WITHIN THE EMBANKMENT BECAUSE SEEPAGE WILL OCCUR WITH IMPROPER BACKFILL AND COMPACTION. THEREFORE, STRUCTURES AND PIPES ARE TO BE CONSTRUCTED AS THE EMBANKMENT CONSTRUCTION RISES TO THE RESPECTIVE PIPE OR STRUCTURE. THIS WILL PREVENT THE DISTURBANCE OF CONSTRUCTED EMBANKMENT MATERIAL. PIPES FROM THE OUTLET STRUCTURE TO THE OUTFALL SHALL HAVE AN ANTI-SEEP COLLAR.

**NOTES:**

- DESIGN LOAD: 100 PSF PEDESTRIAN LOAD.
- ALL MATERIAL TYPE SHALL BE PRESSURE TREATED DOUGLAS FIR OR SOUTHERN PINE NO. 2 OR BETTER.
- ALL FASTENERS SHALL BE HOT DIP GALVANIZED, UNLESS OTHERWISE APPROVED.
- FASTENERS:  
DECKING: 16d 3-1/2 INCH RING SHANK NAILS OR DECK SCREWS 2 PER DECK STRINGER CONNECTION.  
STRINGERS, BLOCKING & BACKWALLS: 16d 3-1/2 INCH LONG RING SHANK NAILS.
- FINAL DESIGN OF THE WALKWAY SHALL BE SELECTED BY THE TOWN OF BURRILLVILLE DEPARTMENT OF PUBLIC WORKS. FINAL OVERALL WIDTH SHALL NOT EXCEED 60".

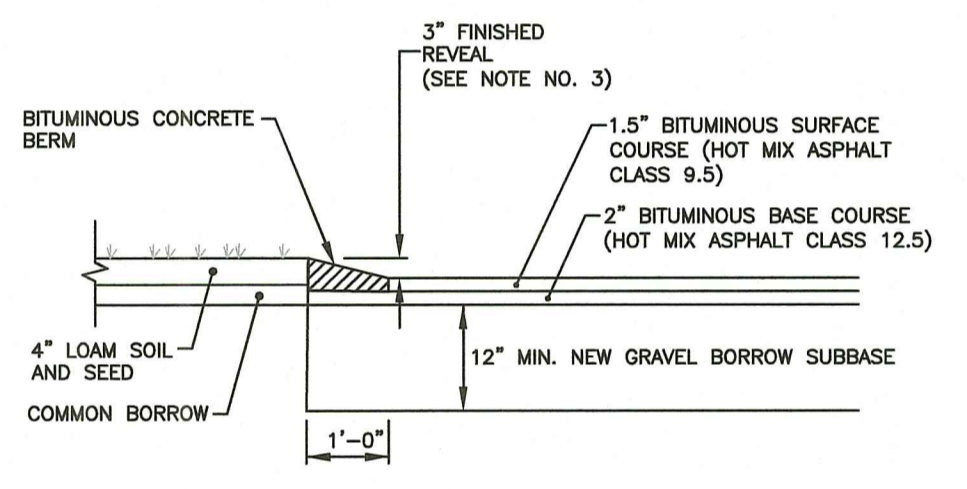


**WOODEN WALKOVER TYPICAL DETAILS**  
NOT TO SCALE



**TYPICAL GROUND SECTION**  
BLOCKING REQUIRED AT EVERY SUPPORT NOT SHOWN FOR CLARITY

**PROFILE VIEW**

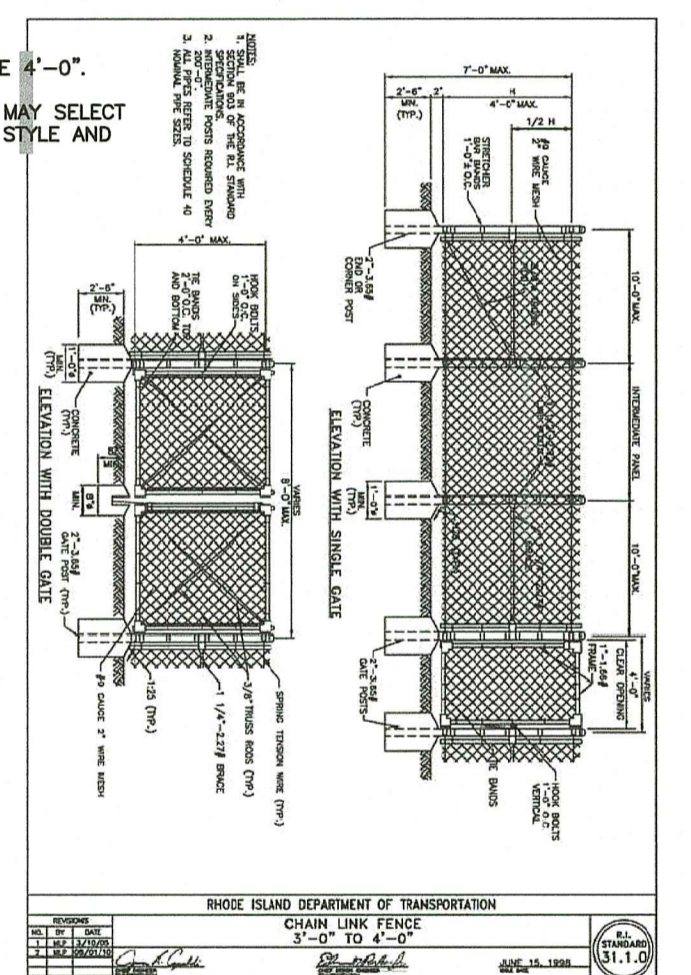


- NOTES:**
- BITUMINOUS CONCRETE BERM SHALL BE MONOLITHICALLY PLACED WITH THE INSTALLATION OF THE SURFACE COURSE.
  - THE BITUMINOUS CONCRETE BERM SHALL BE HAND ROLLED.
  - IF APPROVED IN WRITING BY THE TOWN PRIOR TO INSTALLATION, A HAND VIBRATING COMPACTOR CAN BE USED WHERE BERM IS INSTALLED OTHER THAN DRIVEWAY BERM. THE FINAL FINISHED REVEAL SHALL BE 3" MINIMUM.

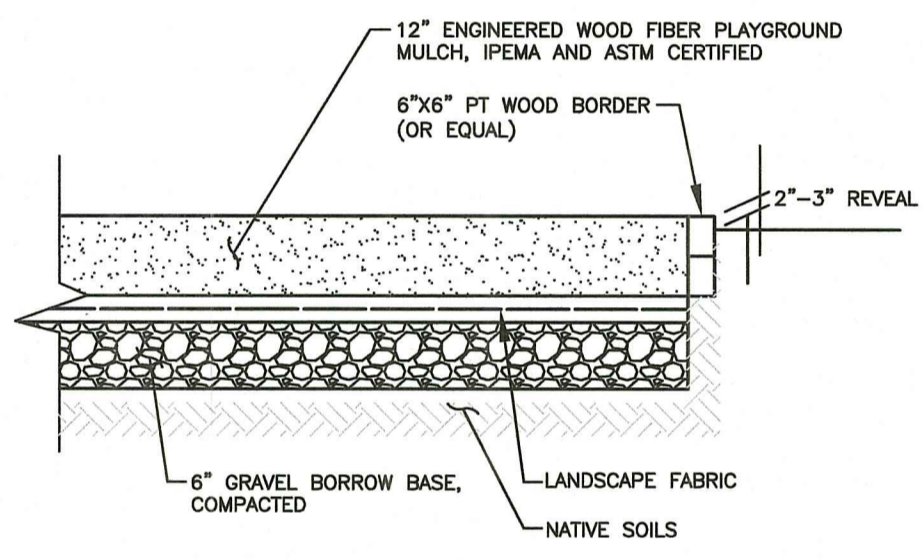
**BITUMINOUS CONCRETE BERM**  
NOT TO SCALE

**NOTES**

- FENCE HEIGHT SHALL BE 4'-0".
- TOWN OF BURRILLVILLE MAY SELECT AN ALTERNATIVE FENCE STYLE AND TYPE.



**CHAIN LINK FENCE**  
NOT TO SCALE



- NOTES**
- TOWN OF BURRILLVILLE SHALL SELECT THE MULCH COLOR.

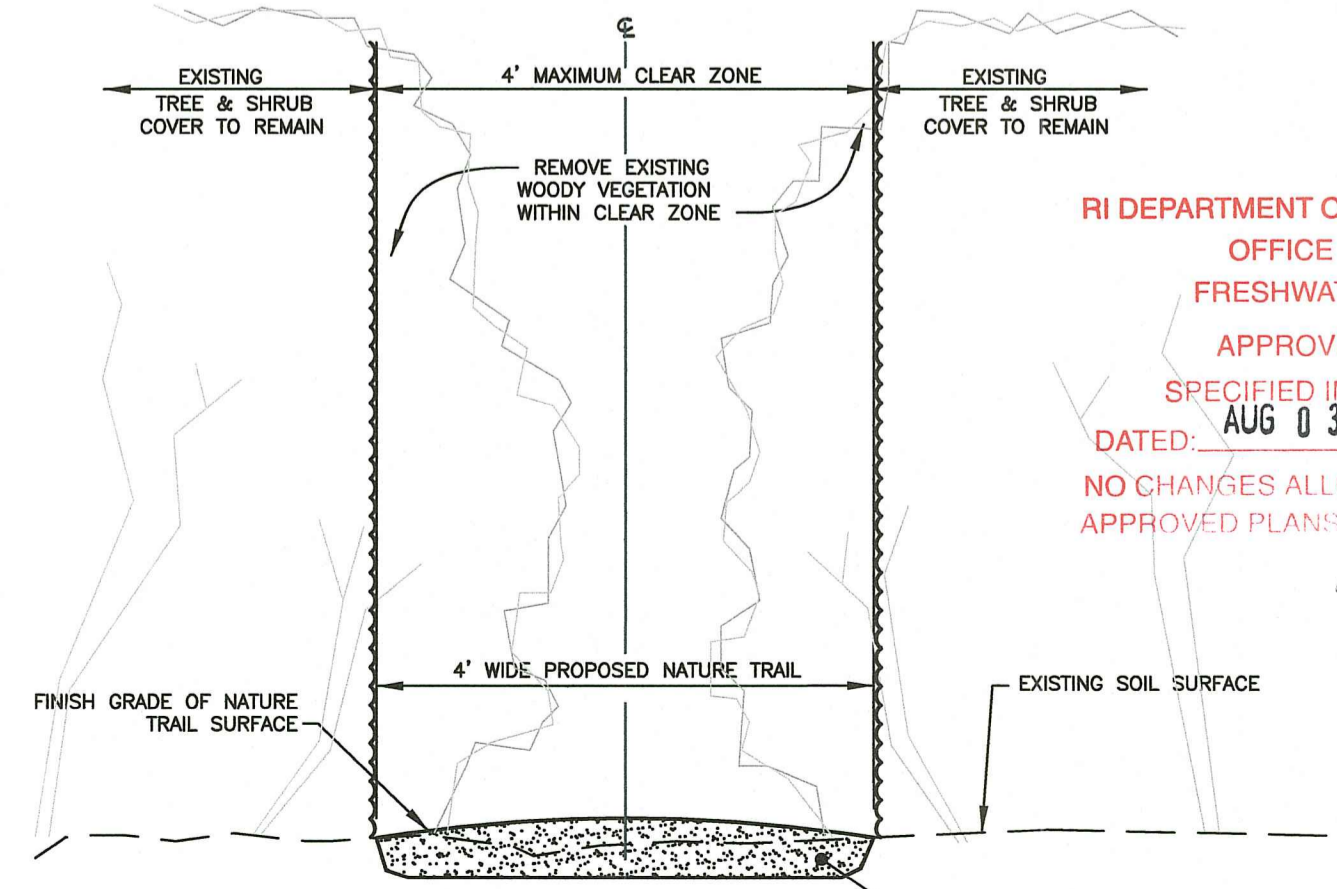
**PLAYGROUND SURFACE TYPICAL SECTION**  
NOT TO SCALE

**PROPOSED NATURE TRAIL ESTABLISHMENT NOTES:**

- CONTRACTOR SHALL STAKE ALIGNMENT OF THE PROPOSED PATH PRIOR TO CONSTRUCTION.
- CUT BACK & REMOVE ALL WOODY VEGETATION WITHIN THE 4' MAXIMUM CLEAR ZONE OR EXTENDING INTO THE 4' MAXIMUM CLEAR ZONE FROM THE ADJACENT WOODLAND. ALL STUMPS SHALL BE GROUND IN-PLACE.
- TILL GROUND SURFACE OF 4' WIDE NATURE TRAIL TO A MINIMUM DEPTH OF 4". RAKE AND REMOVE LARGE STONES (GREATER THAN 1" DIAMETER), AND LARGE DEBRIS (INCLUDING STUMPS, TWIGS, ROOTS, STICKS GREATER THAN 1/2" DIAMETER & 2" LONG, AND ANY UNNATURAL DEBRIS/TRASH), AND GRADE EXISTING TOPSOIL TO A SMOOTH SURFACE. COMPACT EXISTING GROUND SURFACE TO MAINTAIN EXISTING GRADE ALONG THE NATURE TRAIL ALIGNMENT.
- TRIM OVERHANGING TREES WITHIN THE CLEAR ZONE TO A MINIMUM HEIGHT OF 7' ABOVE FINISH GRADE OF NATURE TRAIL.
- THE NATURE TRAIL SURFACE SHALL BE TEMPORARILY STABILIZED WITH 2" OF MULCH AND ALLOWED TO NATURALIZE. FUTURE MAINTENANCE WOULD CONSIST OF CUTTING WOODY GROWTH AND PRUNING OVERHANGING LIMBS/WOODY GROWTH WITHIN THE 4' CLEAR ZONE.

**NOTES FOR EXISTING PATHS/TRAILS TO BE RESTORED:**

- CUT BACK & REMOVE ALL WOODY VEGETATION WITHIN THE BOUNDARIES OF THE EXISTING PATHS/TRAILS TO BE MAINTAINED OR EXTENDING INTO THE PATHS/TRAILS FROM THE ADJACENT WOODLAND. ALL STUMPS SHALL BE GROUND IN-PLACE.
- TILL GROUND SURFACE OF EXISTING TRAIL TO A MINIMUM DEPTH OF 4". MAINTAIN EXISTING TRAIL WIDTH OR AS NOTED. RAKE AND REMOVE LARGE STONES (GREATER THAN 1" DIAMETER), AND LARGE DEBRIS (INCLUDING STUMPS, TWIGS, ROOTS, STICKS GREATER THAN 1/2" DIAMETER & 2" LONG, AND ANY UNNATURAL DEBRIS/TRASH), AND GRADE EXISTING TOPSOIL TO A SMOOTH SURFACE. COMPACT EXISTING GROUND SURFACE TO MAINTAIN EXISTING GRADE ALONG THE NATURE TRAIL ALIGNMENT.
- TRIM OVERHANGING TREES WITHIN THE BOUNDARIES OF THE EXISTING PATHS/TRAILS TO BE MAINTAINED TO A MINIMUM HEIGHT OF 7' ABOVE EXISTING GRADES.
- THE NATURE TRAIL SURFACE SHALL BE TEMPORARILY STABILIZED WITH 2" OF MULCH AND ALLOWED TO NATURALIZE. FUTURE MAINTENANCE WOULD CONSIST OF CUTTING WOODY GROWTH AND PRUNING OVERHANGING LIMBS/WOODY GROWTH WITHIN THE BOUNDARIES OF THE EXISTING PATHS/TRAILS TO BE MAINTAINED.



**NATURE TRAIL DETAIL AND NOTES**  
NOT TO SCALE

**RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**  
**OFFICE OF WATER RESOURCES**  
**FRESHWATER WETLANDS PROGRAM**  
**APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL**  
**DATED: AUG 03 2023 FILE #: 23-0031**  
**NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL**  
**APPROVED PLANS MUST BE AT CONSTRUCTION SITE**  
*Nancy L. Freeman*

**CROSSMAN ENGINEERING**  
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**BRUCE G. HAGERMAN**  
No. 5787  
REGISTERED PROFESSIONAL ENGINEER  
*Bruce G. Hagerman*

**RI Environmental Management**  
APR 14 2023  
Office of Water Resources

**PROJECT TITLE:**  
**RECREATION CENTER IMPROVEMENTS**  
A.P. 157, LOT 36  
A.P. 174, LOT 2  
300 CHURCH STREET  
BURRILLVILLE, RHODE ISLAND

**PREPARED FOR:**  
**TOWN OF BURRILLVILLE**  
  
105 HARRISVILLE MAIN STREET  
HARRISVILLE, RI 02830

**DRAWING TITLE:**  
**MISCELLANEOUS DETAIL PLAN NO.3**

**DATE:** NOVEMBER 2022  
**SCALE:** AS NOTED

**DWG. NAME:** 2567-17-DET03.dwg

REVISIONS		
NUMBER	REMARKS	DATE
1	RIDEM COMMENTS	4/12/23

**DRAWING NUMBER**  
**C7.3**  
SHEET: 16 OF 18





**CROSSMAN ENGINEERING**

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RI Environmental Management  
APR 14 2023  
Office of Water Resources

PROJECT TITLE:  
**RECREATION CENTER IMPROVEMENTS**  
A.P. 157, LOT 36  
A.P. 174, LOT 2  
300 CHURCH STREET  
BURRILLVILLE, RHODE ISLAND

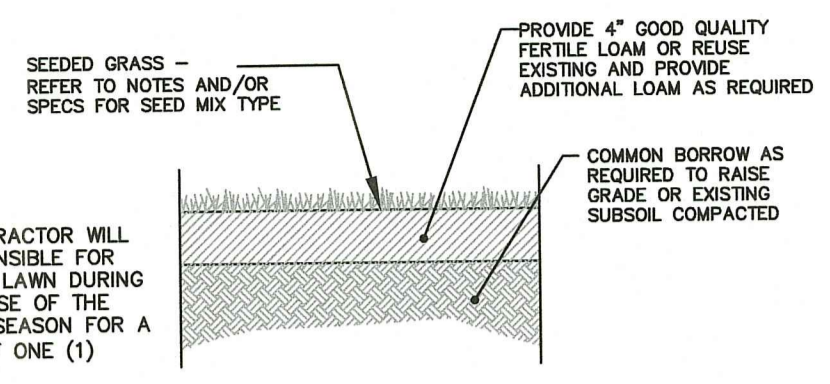
PREPARED FOR:  
**TOWN OF BURRILLVILLE**  
  
105 HARRISVILLE MAIN STREET  
HARRISVILLE, RI 02830

DRAWING TITLE:  
**LANDSCAPE DETAILS**

DATE: NOVEMBER 2022 SCALE: AS NOTED  
DWG. NAME: 2567-19-LANDET.dwg

REVISIONS		
NUMBER	REMARKS	DATE
1	RIDEM COMMENTS	4/12/23

DRAWING NUMBER  
**L2.0**  
SHEET: 18 OF 18



NOTE: THE CONTRACTOR WILL BE RESPONSIBLE FOR WATERING LAWN DURING THE COURSE OF THE GROWING SEASON FOR A PERIOD OF ONE (1) YEAR.

**SEED MIX No. 1 (SLOPES)**

TYPE	% BY WEIGHT
CREeping RED FESCUE	70
ASTORIA BENTGRASS	5
BIRDSPoot TREFOIL	15
PERENNIAL RYE GRASS	10

APPLICATION RATE = 200 lbs. / ACRE

**SEED MIX No. 2 (MOWED/LAWN AREAS)**

TYPE	% BY WEIGHT
NASSAU KENT BLUE	60
JAMESTOWN CHEWINGS FESCUE	20
PALMER PERENNIAL RYE GRASS	20

APPLICATION RATE = 200 lbs. / ACRE

**SEED MIX No. 3 (STORMWATER BASIN AREAS)**

**LOAM-SEED DETAIL**  
NOT TO SCALE

**SEEDING NOTES**

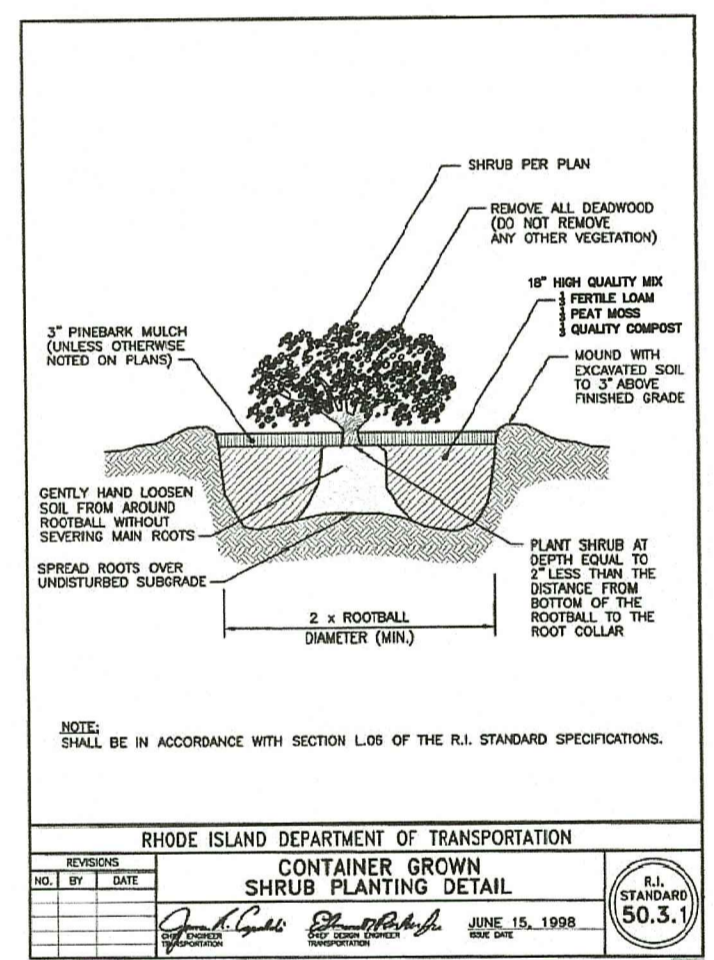
- LOAM SHALL BE SPREAD TO A MINIMUM DEPTH OF 4" OVER ALL AREAS DESIGNATED ON PLANS.
- SHAPE AND SMOOTH THE SURFACE TO THE LINES AND GRADES AS SHOWN ON PLANS.
- FERTILIZE WITH 10-10-10 OR EQUIVALENT ANALYSIS. AT LEAST 40% OF THE FERTILIZER NITROGEN SHALL BE IN A SLOW RELEASE FORM. INCORPORATE THE FERTILIZER INTO THE TOP 3 TO 4 INCHES OF THE PLANTING SOIL. APPLY AT THE RATE OF 8 POUNDS PER 1,000 SQUARE FEET AT SEEDING.
- LIME: SPREAD EVENLY AND WORK INTO THE SOIL DURING PREPARATION OF SEED BED AT THE RATE OF ONE TON PER ACRE. INCORPORATE INTO THE SOIL BY DICING OR OTHER APPROVED METHOD. DISTRIBUTE LIME UNIFORMLY AND WORK INTO TOP 4 INCHES OF TOP SOIL (MINIMUM) AND UNIFORMLY BLEND BY DICING OR ROTOTILLING.
- APPLICATION OF SEED:
  - RATE OF APPLICATION OF SEED SHALL BE 8 POUNDS PER 1,000 SQUARE FEET OR AS INDICATED ON PLANS.
  - SEEDING SHALL BE DONE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS, AND ONLY DURING THE FOLLOWING DATES:  
SPRING SEEDING: MARCH 15 TO MAY 31  
FALL SEEDING: AUGUST 15 TO OCTOBER 15
- THE CONTRACTOR SHALL KEEP ALL SEEDED AREAS WATERED AND IN GOOD CONDITION, RESEEDING IF AND WHEN NECESSARY FOR AN 8 WEEK PERIOD OR UNTIL A GOOD, HEALTHY, UNIFORM GROWTH IS ESTABLISHED OVER THE ENTIRE AREA. THE CONTRACTOR SHALL ALSO MAINTAIN THESE AREAS IN AN APPROVED CONDITION UNTIL PROVISIONAL ACCEPTANCE.
- DURING THIS PERIOD, WATER TURF AS NECESSARY TO MAINTAIN AN ADEQUATE SUPPLY OF MOISTURE WITHIN THE ROOT ZONE. AN ADEQUATE SUPPLY OF MOISTURE IS EQUIVALENT OF ONE INCH OF ABSORBED WATER PER WEEK THAT IS DELIVERED AT WEEKLY INTERVALS IN THE FORM OF NATURAL RAIN OR IS AUGMENTED AS REQUIRED BY PERIODIC WATERING.
- OVERSEED WHEN NECESSARY TO PROMOTE GRASS GROWTH.
- REPLANT AREAS VOID OF TURF ONE SQUARE FOOT OR LARGER.
- SEED:
  - SEED ALL AREAS DESIGNATED ON PLAN AS WELL AS ALL DISTURBED EXISTING AREAS WITH THE FOLLOWING SEED MIX:

**STORMWATER BASIN SEED MIX (SEED MIX NO. 3)**

- APPLICATION RATE = 15-25 LBS. / ACRE  
(SEASONALLY FLOODED MIX)  
(BASIN BOTTOM AREA)
- 20% FOX SEDGE, PA ECOTYPE (CAREX VULPINOIDEA, PA ECOTYPE)
  - 16% VIRGINIA WILD RYE, PA ECOTYPE (ELYMUS VIRGINICUS, PA ECOTYPE)
  - 15% RIVERBANK WILD RYE, PA ECOTYPE (ELYMUS RIPARIUS, PA ECOTYPE)
  - 15% JAPANESE MILLET (ECHINOCHLOA CRUSGALLI VAR. FRUMENTACEA)
  - 15% DEER TONGUE, 'TIOGA' (PANICUM CLANDESTINUM (DICHANTHELIUM C.), 'TIOGA')
  - 9% BLUNT BROOM SEDGE, PA ECOTYPE (CAREX SCOPARIA, PA ECOTYPE)
  - 5% SWITCHGRASS, 'CAVE-IN-ROCK' (PANICUM VIRGATUM, 'CAVE-IN-ROCK')
  - 2% GREEN BULRUSH, PA ECOTYPE (SCIRPUS ATROVIRENS, PA ECOTYPE)
  - 2% AWL SEDGE, PA ECOTYPE (CAREX STIPATA, PA ECOTYPE)
  - 1% AUTUMN BENTGRASS, APB (AGROSTIS PERENNANS, APB)

**TOPSOIL MIX FOR STORMWATER BASINS**

PLANTING SOIL SHALL MEET THE BELOW COMPOSITION:  
SAND: 85-88%  
SOIL FINES: 8-12% (NO MORE THAN 2% CLAY)  
ORGANIC MATTER: 3-5%



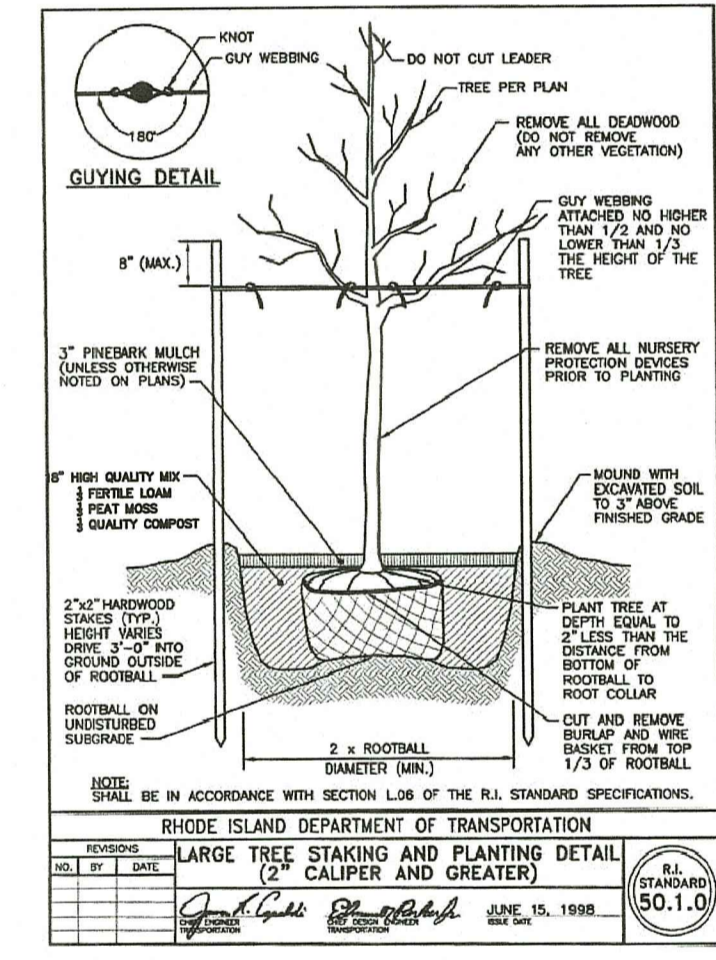
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS

NO.	BY	DATE

**CONTAINER GROWN SHRUB PLANTING DETAIL**

DATE: JUNE 15, 1998  
R.I. STANDARD 50.3.1



RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS

NO.	BY	DATE

**LARGE TREE STAKING AND PLANTING DETAIL (2" CALIPER AND GREATER)**

DATE: JUNE 15, 1998  
R.I. STANDARD 50.1.0

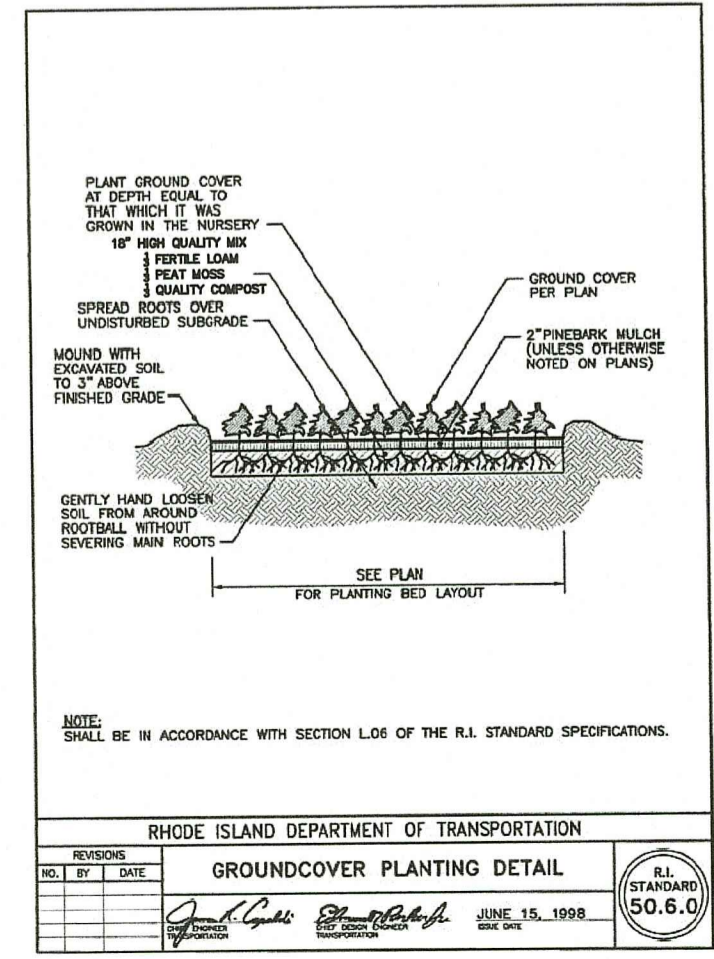
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM MANAGEMENT

APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL

DATED: AUG 03 2023 FILE #: 235003

NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Bruce G. Hagerman*  
CONSTRUCTION SITE



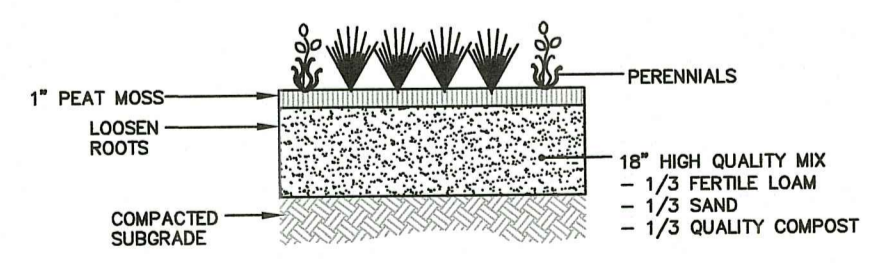
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS

NO.	BY	DATE

**GROUNDCOVER PLANTING DETAIL**

DATE: JUNE 15, 1998  
R.I. STANDARD 50.6.0



**PERENNIAL DETAIL**  
NOT TO SCALE