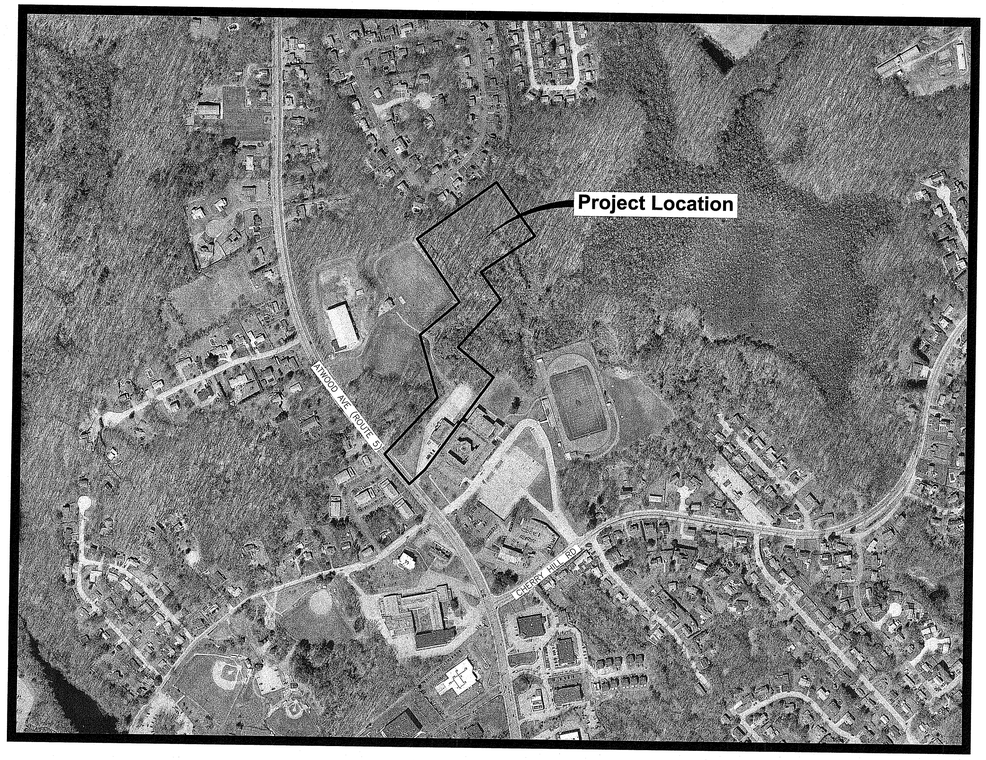
New Johnston Elementary School
Johnston Public Schools

Atwood Avenue
Johnston, Rhode Island



Scale : N.T.S.

FRESHWATER WETLANDS PERMIT SUBMISSION
OCTOBER 16, 2023
REVISED JANUARY 5, 2024

OWNER/APPLICANT:

Johnston Public Schools
1385 Hartford Avenue
Johnston, RI 02919
401-351-6618

CIVIL ENGINEER:

PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE, LINCOLN, RI 02865, 401-334-4100
10 LINCOLN ROAD, SUITE 210, FOXBORO, MA 02035, 508-543-1755
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West Bridgewater, MA 02379
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www.welchinc.com

ATTORNEY:

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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: FEB 0 6 2024 FILE #: 23-0329
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
NOTE PER DEM:
Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site

RI Environmental Management
JAN 1 6 2024
Office of Water Resources

REFERENCE

1. PROJECT LOCATION: JOHNSTON SENIOR HIGH SCHOOL, 345 CHERRY HILL ROAD, JOHNSTON, RI 02919. ASSESSOR'S MAP 47, LOTS 8 & 9.
2. EXISTING CONDITIONS MAPPING PROVIDED BY WELCH ASSOCIATES LAND SURVEYORS, INC., DATED MARCH 16, 2023.
3. WETLAND FLAGS IDENTIFYING WETLAND RESOURCE AREAS WERE PLACED BY PARE CORPORATION ON MAY 27, 2021 AND JUNE 2, 2021 AND LOCATED BY PARE CORPORATION USING A GPS DEVICE. DEPICTED WETLAND BUFFERS AND JURISDICTIONAL AREAS ARE IN ACCORDANCE WITH THE "RULES AND REGULATIONS GOVERNING THE ADMINISTRATION AND ENFORCEMENT OF THE FRESHWATER WETLANDS ACT" WHICH WILL BECOME EFFECTIVE AS OF JANUARY 15, 2022.

GENERAL NOTES

1. PER AVAILABLE RIDEM MAPPING, THE PROJECT SITE IS LOCATED WITHIN OF A NATURAL HERITAGE AREA.
2. THE STATE OF RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AMENDED MARCH 2018 WITH ALL REVISIONS AND ADDENDA, AND THE RHODE ISLAND STANDARD DETAILS ARE MADE A PART HEREOF AS FULLY AND COMPLETELY AS IF ATTACHED HERETO. ALL WORK SHALL MEET OR EXCEED THE RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, WITH LATEST REVISIONS. THE LATEST REVISION OF THE STANDARD SPECIFICATIONS MAY BE OBTAINED AT THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION.
3. THE CONTRACTOR SHALL MAKE ALL NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN ALL NECESSARY CONSTRUCTION PERMITS, PAY ALL FEES AND POST ALL BONDS ASSOCIATED WITH THE SAME, AND COORDINATE WITH THE ENGINEER AND OWNER'S REPRESENTATIVE AS REQUIRED.
4. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY. THE CONTRACTOR SHALL PROVIDE TEMPORARY FENCING AND/OR BARRIERS AROUND ALL OPEN EXCAVATED AREAS IN ACCORDANCE WITH OSHA FEDERAL, STATE, AND LOCAL REQUIREMENTS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ENGINEER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK WHICH WOULD BE AFFECTED. NO FIELD ADJUSTMENTS IN THE LOCATION OF SITE ELEMENTS SHALL BE MADE WITHOUT THE ENGINEER'S APPROVAL.
6. IF ANY DEVIATION OR ALTERATION OF THE WORK PROPOSED ON THESE DRAWINGS IS REQUIRED, THE CONTRACTOR SHALL IMMEDIATELY CONTACT AND COORDINATE ANY DEVIATIONS WITH THE ENGINEER AND OWNER.
7. ANY AREA OUTSIDE OF THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
8. ALL SITE WORK SHALL MEET OR EXCEED THE SITE WORK SPECIFICATIONS PREPARED FOR THIS PROJECT.
9. ALL SIGNS SHALL BE REFLECTORIZED TYPE III SHEETING AND CONFORM WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST REVISION.
10. ALL UTILITIES (LOCATION AND ELEVATION) DEPICTED SHALL BE CONSIDERED APPROXIMATE ONLY. BEFORE COMMENCING SITE WORK IN ANY AREA, CONTACT "DIG SAFE" AT 1-888-DIG-SAFE (1-888-344-7233) TO ACCURATELY LOCATE UNDERGROUND UTILITIES. ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES AND THE COST TO REPAIR THE DAMAGES TO INITIAL CONDITIONS, AS DEPICTED ON THE PLANS, SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
11. NO EXCAVATION SHALL BE DONE UNTIL UTILITY COMPANIES ARE PROPERLY NOTIFIED IN ADVANCE. NOTE THAT NOT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL RESPECTIVE UTILITY COMPANIES TO VERIFY AND LOCATE EXISTING UTILITIES.

LAYOUT NOTES

1. ALL LINES ARE PERPENDICULAR OR PARALLEL TO THE LINES FROM WHICH THEY ARE MEASURED UNLESS OTHERWISE INDICATED.
2. ACCESSIBLE RAMPS SHALL BE PER THE AMERICANS WITH DISABILITIES ACT (ADA) ACCESSIBILITY GUIDELINES.
3. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL PERFORM BENCHMARK FIELD LEVEL VERIFICATION AND COORDINATE LAYOUT CHECK. THE CONTRACTOR SHALL CONTACT PARE CORPORATION IF ANY DISCREPANCIES ARE FOUND.
4. DIMENSIONS OF PARKING SPACES AND DRIVEWAYS ARE FROM FACE OF CURB TO FACE OF CURB. DIMENSIONS FROM BUILDING ARE FROM FACE OF BUILDING TO FACE OF CURB.
5. ALIGN WALKWAYS ON DOORWAYS THEY SERVE TO PROVIDE MINIMUM REQUIRED MANEUVERING CLEARANCE IN ACCORDANCE WITH THE AMERICAN WITH DISABILITIES ACT (ADA) ACCESSIBILITY GUIDELINES.

DEMOLITION NOTES

1. THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION OF STRUCTURES, PAVEMENT AND CONCRETE MATERIALS, AND UTILITIES WITH APPROPRIATE PROPOSED SITE GENERAL, GRADING, UTILITY, AND LANDSCAPING DRAWINGS.
2. WATER, SEWER, DRAINAGE, GAS, AND OTHER SITE UTILITIES SERVICING THE EXISTING FACILITIES ARE TO REMAIN ACTIVE THROUGHOUT CONSTRUCTION. THERE SHALL BE NO INTERRUPTION OF UTILITY SERVICES DURING THE CONSTRUCTION OPERATION WITHOUT APPROVAL FROM THE OWNER.

GRADING AND UTILITY NOTES

1. UNDERGROUND UTILITIES DEPICTED WERE COMPILED FROM AVAILABLE RECORD PLANS AND SHALL BE CONSIDERED APPROXIMATE ONLY. BEFORE COMMENCING SITE WORK IN ANY AREA, CONTACT "DIG SAFE" AT 1-888-DIG-SAFE (1-888-344-7233) TO ACCURATELY LOCATE UNDERGROUND UTILITIES. ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES DEPICTED OR NOT DEPICTED ON THE PLANS SHALL BE THE CONTRACTOR'S RESPONSIBILITY. COSTS TO REPAIR SUCH DAMAGES SHALL BE THE CONTRACTOR'S RESPONSIBILITY. NO EXCAVATION SHALL BE DONE UNTIL UTILITY COMPANIES ARE PROPERLY NOTIFIED.
2. ALL WORK PERFORMED AND ALL MATERIALS FURNISHED SHALL CONFORM WITH THE LINES AND GRADES ON THE PLANS AND SITE WORK SPECIFICATIONS.
3. AT ALL LOCATIONS WHERE EXISTING CURBING OR PAVEMENT ABUT NEW CONSTRUCTION, THE EDGE OF THE EXISTING CURB OR PAVEMENT SHALL BE SAWCUT TO A CLEAN, SMOOTH EDGE. BLEND NEW PAVEMENT AND CURBS SMOOTHLY INTO EXISTING BY MATCHING LINES, GRADES AND JOINTS.
4. ALL UTILITY COVERS, GRATES, ETC. SHALL BE ADJUSTED TO BE FLUSH WITH THE SURROUNDING SURFACE OR PAVEMENT FINISH GRADE. RIM ELEVATIONS OF STRUCTURES AND MANHOLES ARE APPROXIMATE. FINAL ELEVATIONS ARE TO BE SET FLUSH AND CONSISTENT WITH THE GRADING PLANS.
5. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION OF PRIVATE UTILITIES BY THE UTILITY COMPANIES, AS REQUIRED.
6. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR AND THE INFORMATION SHALL BE PROVIDED ON A SKETCH TO SCALE OF THE EXISTING UTILITY WITH TIES TO KNOWN POINTS, PHOTOS AND FURNISHED TO THE ENGINEER FOR RESOLUTION.
7. THE CONTRACTOR SHALL PROTECT ALL UNDERGROUND DRAINAGE, SEWER AND UTILITY FACILITIES FROM EXCESSIVE VEHICULAR LOADS DURING CONSTRUCTION. ANY DAMAGE TO THESE FACILITIES RESULTING FROM CONSTRUCTION LOADS SHALL BE RESTORED TO ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
8. GAS, ELECTRIC, AND COMMUNICATIONS ROUTING ARE SUBJECT TO REVIEW AND APPROVAL BY APPROPRIATE UTILITY COMPANIES.
9. DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES BY PROVIDING TEMPORARY SUPPORTS OR SHEETING AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER.
10. ALL GRAVITY SANITARY PIPING SHALL BE SDR-35 PVC. ALL SEWER CONSTRUCTION SHALL CONFORM TO THE TOWN OF JOHNSTON SEWER DEPARTMENT REGULATIONS.
11. ALL WATER LINE BENDS AND TEES SHALL BE REINFORCED WITH THRUST BLOCKS. ALL WATER DISTRIBUTION PIPING AND FITTINGS MUST ADHERE TO THE PROVIDENCE WATER SPECIFICATIONS AND SHALL BE INSPECTED BEFORE, DURING, AND AFTER CONSTRUCTION PRIOR TO TAPPING THE SERVICE MAIN. THE CONTRACTOR SHALL COORDINATE AND CONFIRM ALL WATER DISTRIBUTION MATERIAL PRODUCTS WITH THE PROVIDENCE WATER PRIOR TO ORDERING OR PURCHASING PRODUCTS.
12. EXCAVATION REQUIRED WITHIN THE PROXIMITY OF EXISTING UTILITY LINES SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT NO ADDITIONAL COST TO THE OWNER.
13. PITCH EVENLY BETWEEN SPOT GRADES. ALL PAVED AREAS MUST PITCH TO DRAIN AT A MIN. OF 1/8" PER FOOT UNLESS SPECIFIED OTHERWISE.
14. THE PROPOSED WALKWAYS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2% AND A MAXIMUM RUNNING SLOPE OF 5% AS SHOWN ON CONSTRUCTION DETAILS AND GRADING PLAN.

EROSION AND SEDIMENT CONTROL NOTES

1. THE CONTRACTOR AND RELEVANT SUBCONTRACTORS SHALL READ AND UNDERSTAND THE RIPDES GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY (GENERAL PERMIT) AND THE SITE SPECIFIC SOIL EROSION AND SEDIMENT CONTROL PLAN (SESC) PREPARED FOR THE PROJECT. ALL EROSION CONTROLS SHALL BE IN ACCORDANCE WITH THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST REVISION.
2. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE CONDITIONS ISSUED FOR THE PROJECT BY RIDEM AND BE RESPONSIBLE FOR CONFORMANCE WITH ALL PERMIT REQUIREMENTS AND CONSTRUCTION DOCUMENTS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING OR INSTALLING ALL TEMPORARY SEDIMENT AND EROSION CONTROLS AS SHOWN ON THESE PLANS AND SHALL MAINTAIN ALL EROSION CONTROL MEASURES AS NECESSARY DURING THE ENTIRE CONSTRUCTION PERIOD.
4. ANTI-TRACKING PADS (R.I. STD. DETAIL 9.9.0) SHALL BE PROVIDED AT ALL POINTS OF VEHICULAR INGRESS AND EGRESS ON THE CONSTRUCTION SITE AND SHALL BE MAINTAINED TO LIMIT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADS.
5. EROSION CONTROL BARRIERS SHALL BE INSTALLED AS SHOWN ON THE EROSION CONTROL PLAN PRIOR TO COMMENCEMENT OF CONSTRUCTION OPERATIONS.
6. SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED ON A WEEKLY BASIS AND AFTER EACH STORM EVENT OF 0.25 INCH OR GREATER DURING CONSTRUCTION TO ENSURE THAT CHANNELS, DITCHES AND PIPES ARE CLEAR OF DEBRIS AND THAT THE EROSION CONTROL BARRIERS ARE INTACT. IDENTIFIED DEFICIENCIES SHALL BE CORRECTED IMMEDIATELY.
7. DUST SHALL BE CONTROLLED BY WATERING OR OTHER APPROVED METHODS AS NECESSARY, OR AS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE.
8. THE CONTRACTOR SHALL CLEAN AND MAINTAIN EROSION CONTROL BARRIER WHEN SEDIMENT ACCUMULATES TO ONE HALF THE HEIGHT OF THE BARRIER. MATERIAL COLLECTED FROM THE SEDIMENTATION BARRIERS SHALL BE REMOVED AS NECESSARY AND DISPOSED IN AN UPLAND AREA.
9. THE CONTRACTOR SHALL SCHEDULE HIS WORK TO ALLOW THE FINISHED SUBGRADE ELEVATIONS TO DRAIN PROPERLY WITHOUT PONDING. SPECIFICALLY, ALLOW WATER TO ESCAPE WHERE PROPOSED CURB MAY RETAIN RUNOFF PRIOR TO APPLICATION OF SURFACE PAVING. PROVIDE TEMPORARY POSITIVE DRAINAGE, AS REQUIRED, TO STABILIZED DISCHARGE POINTS.
10. INSTALLATION OF THE EROSION CONTROL BARRIERS AS ILLUSTRATED IS INTENDED TO REPRESENT THE MINIMUM SEDIMENTATION CONTROL FACILITIES NECESSARY TO MEET ANTICIPATED SITE CONDITIONS. ADDITIONAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED AS CONDITIONS WARRANT OR AS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE.
11. REQUIRED SEDIMENTATION CONTROL FACILITIES MUST BE PROPERLY ESTABLISHED, CLEARLY VISIBLE AND IN OPERATION PRIOR TO INITIATING ANY LAND CLEARING ACTIVITY AND/OR OTHER CONSTRUCTION RELATED WORK. SUCH FACILITIES SHALL REPRESENT THE LIMIT OF WORK. WORKERS SHALL BE INFORMED THAT NO CONSTRUCTION ACTIVITY IS TO OCCUR BEYOND THE LIMIT OF WORK AT ANY TIME THROUGHOUT THE CONSTRUCTION PERIOD.
12. THE CONTRACTOR SHALL MAINTAIN A SUFFICIENT RESERVE OF VARIOUS EROSION CONTROL MATERIALS ONSITE AT ALL TIMES FOR EMERGENCY PURPOSES OR ROUTINE MAINTENANCE.
13. EXISTING AND NEWLY INSTALLED CATCH BASINS AND STORM DRAIN INLETS SHALL BE PROTECTED WITH APPROPRIATE TEMPORARY INLET PROTECTION IN ACCORDANCE WITH THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK.
14. DEWATERING WASTE WATERS PUMPED FROM EXCAVATIONS SHALL BE CONVEYED BY HOSE TO AN UPLAND AREA AND DISCHARGED INTO STRAW BALE CORRALS OR SEDIMENTATION BAGS.
15. THE CONTRACTOR SHALL NOT REMOVE ANY TEMPORARY SEDIMENT CONTROL BARRIERS UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED.
16. CONSTRUCTION SITE WASTE MATERIALS SHALL BE PROPERLY CONTAINED ONSITE AND DISPOSED OFF SITE AT A LOCATION IN ACCORDANCE WITH THE LOCAL AND STATE REGULATIONS.
17. RIP-RAP OR OTHER ENERGY DISSIPATERS SHALL BE USED WHERE NECESSARY TO PREVENT SCOUR.
18. ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 14 DAYS UPON COMPLETION OF WORK IN THAT AREA.
19. ALL DRAINAGE STRUCTURES SHALL BE CLEARED OF ACCUMULATED SEDIMENT PRIOR TO ACCEPTANCE OF FINAL PROJECT.
20. NEWLY VEGETATED AREAS SHALL BE MAINTAINED REGULARLY TO ENSURE STABLE VEGETATED SURFACES.
21. EROSION AND SEDIMENTATION CONTROLS SHALL BE UTILIZED AS SHOWN ON THE PLANS. POTENTIAL EROSION AND SEDIMENTATION PROBLEMS ASSOCIATED WITH THE CONSTRUCTION OF THE PROJECT SHALL BE AVOIDED THROUGH THE PROJECT SCHEDULING AND THE USE OF APPROPRIATE STANDARD CONTROLS (RHODE ISLAND SOIL EROSION AND SEDIMENTATION CONTROL HANDBOOK) AS ILLUSTRATED ON THE PROJECT PLANS.
22. WHERE EROSION CONTROLS ARE NEEDED ON IMPERVIOUS SURFACES, THE CONTRACTOR SHALL PROVIDE SAND BAG EROSION CONTROL BARRIER.
23. TEMPORARY DIVERSION (TD) MAY CONSIST OF A DITCH OR SWALE, OR MAY BE ACHIEVED USING WOOD CHIPS, COIR LOGS, OR SIMILAR MATERIALS.
24. TEMPORARY SEDIMENT TRAPS (TST) AND TEMPORARY SWALES (TSW) SHALL BE SIZED BY THE CONTRACTOR USING THE PARAMETERS CONTAINED IN THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK.

STATE RIGHT-OF-WAY NOTES

1. ALL WORK TO BE PERFORMED WITHIN THE STATE RIGHT-OF-WAY (ROW) SHALL CONFORM TO THE RIDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AMENDED AUGUST 2013, WITH ALL REVISIONS AND ADDENDA. STANDARD DETAILS FOR THIS WORK ARE RIDOT STANDARD DETAILS 1998 EDITION WITH ALL REVISIONS.
2. THE CONTRACTOR SHALL APPLY FOR AND OBTAIN A UTILITY PERMIT FROM THE RIDOT FOR UTILITY WORK WITHIN THE STATE'S ROW AND MAKE ALL NECESSARY CONSTRUCTION NOTIFICATIONS, PAY ALL FEES AND POST ALL BONDS ASSOCIATED WITH THE SAME, AND COORDINATE WITH THE ENGINEER AND OWNER'S REPRESENTATIVE AS REQUIRED.
3. THE CONTRACTOR SHALL PREPARE A TRANSPORTATION MANAGEMENT PLAN INCLUDING A TEMPORARY TRAFFIC CONTROL PLAN AS REQUIRED FOR THE RIDOT UTILITY PERMIT APPLICATION AT NO ADDITIONAL EXPENSE TO THE OWNER.
4. ALL TEMPORARY TRAFFIC CONTROLS SHALL BE IN ACCORDANCE WITH THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), LATEST REVISION.

STORMWATER MANAGEMENT SYSTEM INSPECTION AND MAINTENANCE NOTES

DURING CONSTRUCTION (CONTRACTOR'S RESPONSIBILITY)

1. THE CONTRACTOR SHALL REMOVE SEDIMENT AND DEBRIS FROM ALL CATCH BASINS, MANHOLES, AND THE DRAINAGE SYSTEM ON A ROUTINE BASIS, IMMEDIATELY FOLLOWING SITE STABILIZATION, AND PRIOR TO PROJECT COMPLETION AND ACCEPTANCE.
2. THE CLOSED DRAINAGE SYSTEM AND ASSOCIATED STRUCTURES SHALL BE CLEANED AND FLUSHED BY THE CONTRACTOR AT THE COMPLETION OF CONSTRUCTION, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTION AND MAINTENANCE OF THE DRAINAGE SYSTEM UNTIL ACCEPTANCE OF THE SYSTEM BY THE ENGINEER AND THE TOWN OF JOHNSTON. FOLLOWING ACCEPTANCE OF THE PROPOSED DRAINAGE SYSTEM, THE OWNER OF THE SITE SHALL BE RESPONSIBLE FOR THE LONG-TERM INSPECTION AND MAINTENANCE OF THE DRAINAGE SYSTEM.
3. ANY ACCUMULATION OF PONDING WATER IN AREAS WITHIN THE LIMITS OF DISTURBANCE, OTHER THAN DESIGNATED AREAS, SHALL BE REMOVED ACCORDINGLY AND PREVENTED IN THE FUTURE.

POST CONSTRUCTION (OWNER'S RESPONSIBILITY)

1. TRASH, LITTER, SEDIMENT AND OTHER DEBRIS SHALL BE REMOVED FROM ANY STORMWATER MANAGEMENT SYSTEM FACILITY (INCLUDING BUT NOT LIMITED TO CATCH BASINS, MANHOLES, INLET, OUTLET AND DIVERSION STRUCTURES, AND STORMWATER BEST MANAGEMENT PRACTICES (BMPs)) A MINIMUM OF TWO TIMES PER YEAR, PREFERABLY IN THE SPRING AND FALL.
2. THE PARKING LOT AND ENTRY DRIVE SHALL BE SWEPT BY THE OWNER AS EARLY AS POSSIBLE EVERY SPRING AND ONCE IN THE FALL TO REMOVE SEDIMENTS.
3. ALL CLEANING AND MAINTENANCE OF STORMWATER MANAGEMENT SYSTEMS POST-CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE OWNER.

CATCH BASINS WITH SUMPS INSPECTION, MAINTENANCE, AND REPAIR NOTES

1. INSPECTIONS SHALL BE PERFORMED A MINIMUM OF TWO TIMES PER YEAR (SPRING/FALL). UNITS SHALL BE CLEANED ANNUALLY AND WHENEVER THE DEPTH OF SEDIMENT IS GREATER THAN OR EQUAL TO HALF THE SUMP DEPTH.
2. THE INLET GRATE SHALL NOT BE WELDED TO THE FRAME OR PAVED OVER SO THAT THE SUMP CAN BE EASILY INSPECTED AND MAINTAINED.
3. CARE SHALL BE TAKEN TO AVOID DAMAGING AND DISPLACING HOODS PLACED ON HOODED OUTLETS DURING CLEANING.

UNDERGROUND INFILTRATION/DETENTION SYSTEM BASIN INSPECTION, MAINTENANCE, AND REPAIR NOTES

FOLLOWING CONSTRUCTION, THE COMPLETION OF THE INSPECTION AND MAINTENANCE REQUIREMENTS BELOW SHALL BE THE RESPONSIBILITY OF THE OWNER.

1. THE SYSTEM SHALL BE MAINTAINED AS RECOMMENDED BY THE MANUFACTURER.
2. FOLLOWING STORM EVENTS WITH RAINFALL EXCEEDING 2.7"
   - INSPECT INFILTRATION/DETENTION SYSTEM FOR TRASH, DEBRIS, SEDIMENT, EROSION, STANDING WATER, AND OVERALL PERFORMANCE. DEFECTS SHALL BE REPAIRED BY THE OWNER.
3. BI-ANNUALLY
   - INSPECTIONS SHALL BE PERFORMED A MINIMUM OF TWO TIMES PER YEAR ON THE INSPECTION PORTS AND DRAINAGE STRUCTURES OF THE UNDERGROUND INFILTRATION/DETENTION SYSTEM TO ENSURE PROPER OPERATION OF THE SYSTEM.
4. JETVAC MAINTENANCE IS RECOMMENDED IF SEDIMENT HAS BEEN COLLECTED TO A DEPTH OF 3" IN THE PRETREATMENT ROW. MORE FREQUENT MAINTENANCE MAY BE REQUIRED TO MAINTAIN MINIMUM FLOW RATES THROUGH THE PRETREATMENT ROW. THE JETVAC PROCESS SHALL ONLY BE PERFORMED ON THE PRETREATMENT ROW.

BIORETENTION AREA INSPECTION, MAINTENANCE, AND REPAIR NOTES

1. FOLLOWING FIRST 6 MONTHS AFTER CONSTRUCTION
   - INSPECT BIORETENTION AREA AFTER FIRST TWO RAINFALL EVENTS OF 1" OR MORE.
2. FOLLOWING STORM EVENTS WITH RAINFALL EXCEEDING 2.7"
   - INSPECT BIORETENTION AREA FOR TRASH, DEBRIS, SEDIMENT, EROSION, STANDING WATER, AND OVERALL PERFORMANCE. DEFECTS SHALL BE REPAIRED BY OWNER.
3. BI-ANNUALLY
   - INSPECT BIORETENTION AREA A MINIMUM OF TWO TIMES PER YEAR, PREFERABLY IN APRIL AND OCTOBER. SEDIMENT SHALL BE REMOVED FROM BIORETENTION AREA IF THE SEDIMENT EXCEEDS 1".
   - MOW SIDE SLOPES AND BOTTOM OF BIORETENTION AREA A MINIMUM OF TWO TIMES PER YEAR.
4. QUARTERLY
   - INSPECT BIORETENTION AREA OUTLET CONTROL STRUCTURE AND ALL OVERFLOW CHANNELS. THE OWNER SHALL STABILIZE ERODED BANKS AND REPAIR ERODED AREAS AT INFLOW AND OUTFLOW STRUCTURES AS NECESSARY.
5. IF SEDIMENT BUILD-UP HAS LIMITED THE FILTERING CAPABILITIES TO BELOW THE DESIGN RATE OR PONDING HAS EXCEEDED 48 HOURS THE FOLLOWING SHALL BE COMPLETED:
   - THE TOP 6" OF SOIL SHALL BE REMOVED AND DISPOSED AT A PERMITTED LOCATION.
   - THE EXPOSED SURFACE SHALL BE SCARIFIED.
   - THE TOP 6" SHALL BE RESTORED TO THE ORIGINAL DESIGN SPECIFICATIONS WITH A SANDY LOAM TOPSOIL.
6. TRASH AND DEBRIS SHALL BE REMOVED FROM BIORETENTION AREA AS NECESSARY.

QUALIFYING PERVIOUS AREA INSPECTION, MAINTENANCE, AND REPAIR NOTES

FOLLOWING CONSTRUCTION, THE COMPLETION OF THE INSPECTION AND MAINTENANCE REQUIREMENTS BELOW SHALL BE THE RESPONSIBILITY OF THE OWNER.

1. THE QUALIFYING PERVIOUS AREAS (QPA'S) MUST BE INSPECTED A MINIMUM OF TWO TIMES PER YEAR FOR SEDIMENT, PONDING, EROSION, AND VEGETATION.
2. REMOVE ACCUMULATED SEDIMENT FROM THE QPA'S IF SEDIMENT EXCEEDS 1".
3. OWNER SHALL REPAIR ANY SLOPES THAT HAVE BEEN DAMAGED DUE TO EROSION OR OTHER MEANS. OWNER SHALL REPLACE ANY VEGETATION THAT HAS DIED OR BEEN DAMAGED.
4. OWNER SHALL MOW GRASS WITHIN THE QPA A MINIMUM OF TWO TIMES ANNUALLY TO MAINTAIN A MINIMUM HEIGHT OF 6".
5. TRASH AND DEBRIS SHALL BE REMOVED FROM THE QPA'S AS NECESSARY.

INFILTRATION BASIN INSPECTION, MAINTENANCE AND REPAIR NOTES

1. FOLLOWING FIRST 6 MONTHS AFTER CONSTRUCTION
   - INSPECT INFILTRATION PRACTICES AFTER FIRST TWO RAINFALL EVENTS OF 1" OR MORE.
2. FOLLOWING STORM EVENTS WITH RAINFALL EXCEEDING 2.7"
   - INSPECT INFILTRATION BASIN FOR TRASH, DEBRIS, SEDIMENT, EROSION, STANDING WATER, AND OVERALL PERFORMANCE. DEFECTS SHALL BE REPAIRED BY OWNER.
3. BI-ANNUALLY
   - INSPECT INFILTRATION BASIN A MINIMUM OF TWO TIMES PER YEAR, PREFERABLY IN APRIL AND OCTOBER. SEDIMENT SHALL BE REMOVED FROM INFILTRATION BASIN IF THE SEDIMENT EXCEEDS 1".
   - MOW SIDESLOPES AND BOTTOM OF INFILTRATION BASIN A MINIMUM OF TWO TIMES PER YEAR.
4. QUARTERLY
   - INSPECT INFILTRATION BASIN OUTLET CONTROL STRUCTURE AND ALL OVERFLOW CHANNELS. THE OWNER SHALL STABILIZE ERODED BANKS AND REPAIR ERODED AREAS AT INFLOW AND OUTFLOW STRUCTURES AS NECESSARY
5. IF SEDIMENT BUILD-UP HAS LIMITED THE INFILTRATION CAPABILITIES TO BELOW THE DESIGN RATE OR PONDING HAS EXCEEDED 48 HOURS THE FOLLOWING SHALL BE COMPLETED:
   - THE TOP 6" OF SOIL SHALL BE REMOVED AND DISPOSED AT A PERMITTED LOCATION.
   - THE EXPOSED SURFACE SHALL BE SCARIFIED.
   - THE BASIN BOTTOM SHALL BE RESTORED TO THE ORIGINAL DESIGN SPECIFICATIONS WITH A SANDY LOAM TOPSOIL.
6. TRASH AND DEBRIS SHALL BE REMOVED FROM INFILTRATION BASIN AS NECESSARY.

SEDIMENT FOREBAY INSPECTION, MAINTENANCE AND REPAIR NOTES

FOLLOWING CONSTRUCTION, THE COMPLETION OF THE INSPECTION AND MAINTENANCE REQUIREMENTS BELOW SHALL BE THE RESPONSIBILITY OF THE OWNER.

1. SEDIMENT FOREBAY SHALL BE INSPECTED A MINIMUM OF TWO TIMES PER YEAR AND AFTER EVERY STORM OF 2.7" INCH OR GREATER FOR TRASH, DEBRIS, SEDIMENT, EROSION, STANDING WATER, AND OVERALL PERFORMANCE. DEFECTS SHALL BE REPAIRED BY THE OWNER.
2. SEDIMENT FOREBAYS SHALL BE CLEANED IF SEDIMENT REACHES HALF THE DESIGN DEPTH.
3. SEDIMENT FOREBAY CHECK DAMS SHALL BE REPLACED IF DRAWDOWN TIMES WITHIN THE SEDIMENT FOREBAY EXCEED 48 HOURS FOLLOWING THE STORM EVENT.
4. ALL SEDIMENTS REMOVED SHALL BE DISPOSED OF AT AN APPROVED AND PERMITTED LOCATION.
5. VEGETATION SHALL NOT EXCEED 18" IN HEIGHT IN THE SEDIMENT FOREBAYS.

RI Environmental Management
JAN 1 0 2024
Office of Water Resources

RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: FEB 0 6 2024 FILE #: 23-0020
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DAVID L. POTTER
No. 8665
01.05.24
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

PARE

OWNER:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

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

Johnston Elementary School
Johnston Public Schools
AP 47, LOTS 8 & 9
Atwood Ave
Johnston, RI

REVISIONS:

1	12-22-2023	RIDEM COMMENTS

PROJECT NO.:	21102.02
DATE:	OCTOBER 16, 2023
SCALE:	N.T.S.
DESIGNED BY:	KJM
CHECKED BY:	MBA
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:
NOTES

DRAWING NO.:
C1.1

SHEET NO. 2 OF ___

Z:\JOBS\21 21102.02 Johnston- JES Stage III - RI\DWGS\Notes & Legend.dwg

ABBREVIATIONS

GENERAL

AADT	ANNUAL AVERAGE DAILY TRAFFIC
ABAN	ABANDON
ADA	AMERICANS WITH DISABILITIES ACT
ADJ	ADJUST
APPROX	APPROXIMATE
AC	ASPHALT CONCRETE
ACCM PIPE	ASPHALT COATED CORRUGATED METAL PIPE
ASSF	AREA SUBJECT TO STORM FLOWAGE
ATD	ASPHALT TURNDOWN
ATG	ADJUST TO GRADE
BB	BITUMINOUS BERM
BC	BOTTOM OF CURB (FINISHED GRADE ON LOW SIDE OF CURB)
BD	BOUND
BIT	BITUMINOUS
BL	BASELINE
BLDG	BUILDING
BM	BENCHMARK
BMP	BEST MANAGEMENT PRACTICE
BO	BY OTHERS
BOL	BOLLARD
BOS	BOTTOM OF SLOPE
BOT	BOTTOM
BPM	BLACKOUT PAVEMENT MARKING
BR	BRIDGE
BS	BOTTOM OF STAIR (FINISHED GRADE AT BOTTOM STAIR)
BW	BOTTOM OF WALL (FINISHED GRADE ON LOW SIDE OF WALL)
BWL	BROKEN WHITE LINE
BYL	BROKEN YELLOW LINE
C=	CURVE LENGTH
CB	CATCH BASIN
CBCI	CATCH BASIN WITH CURB INLET
CC	CEMENT CONCRETE
CCM	CEMENT CONCRETE MASONRY
CCW	CEMENT CONCRETE WALK
CD	CHECK DAM
CE	CONSTRUCTION ENTRANCE
CEM	CEMENT
CFS	COMPOST FILTER SOCK
CG	CLEAR AND GRUB VEGETATION
CH	CHORD LENGTH
CI	CURB INLET
CIP	CAST IRON PIPE
CL	CENTERLINE
CLDI	CEMENT-LINED DUCTILE IRON
CLF	CHAIN LINK FENCE
CLSM	CONTROLLED LOW STRENGTH MATERIAL
CLR	CLEAR
CLS	CLASS
CM	SAWCUT AND MATCH
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
CONC	CONCRETE
CONT	CONTINUOUS
CONST	CONSTRUCTION
CP	CONCRETE PAD
CR GR	CROWN GRADE
CSP	CORRUGATED STEEL PIPE
CSTR	CONCRETE STAIRS
CTE	CONNECT TO EXISTING
CW	CROSSWALK
DEMO	DEMOLITION
DET	DETECTABLE
DHV	DESIGN HOURLY VOLUME
DI	DROP INLET
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DIV	DIVERSION
DMH	DRAIN MANHOLE
DTP	DRIPLINE TREE PROTECTION
DWL	DOTTED WHITE LINE
DWLEx	DOTTED WHITE LINE EXTENSION
DBWL	DOUBLE WHITE LINE
DWP	DETECTABLE WARNING PAVER
DYL	DOTTED YELLOW LINE
DYLEx	DOTTED YELLOW LINE EXTENSION
DBYL	DOUBLE YELLOW LINE
DW	STEADY DON'T WALK - PORTLAND ORANGE
DWY	DRIVEWAY
ELEV (or EL)	ELEVATION
EMB	EMBANKMENT
EMH	ELECTRIC MANHOLE
EOP	EDGE OF PAVEMENT
ETR	EXISTING TO REMAIN. PROTECT DURING CONSTRUCTION.
EXIST (or EX)	EXISTING
EXC	EXCAVATION
F&C	FRAME AND COVER
F&G	FRAME AND GRATE
FDC	FIRE DEPARTMENT CONNECTION
FDN	FOUNDATION
FES	FLARED END SECTION
FFE	FINISH FLOOR ELEVATION
FLDSTN	FIELDSTONE
FND	FOUND
FT	FOOT
GAR	GARAGE
GD	GROUND
GG	GAS GATE
GI	GUTTER INLET
GIP	GALVANIZED IRON PIPE
GRAN	GRANITE
GRAV	GRAVEL
GRD	GUARD
GTD	GRADE TO DRAIN
GV	GATE VALVE
HCPS	HANDICAP ACCESSIBLE PARKING SIGN
HDBC	HEAVY DUTY BITUMINOUS CONCRETE
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HDPS	HANDICAP ACCESSIBLE PARKING SIGN
HDW	HEADWALL
HMA	HOT MIX ASPHALT
HMAW	HOT MIXED ASPHALT WALKWAY
HOR	HORIZONTAL
HPR	HEADWALL PROTECTION RACK
HYD	HYDRANT
ID	INSIDE DIAMETER
INV	INVERT
JCT	JUNCTION
L=	LENGTH OF CURVE
LB	LEACH BASIN
LOD	LIMIT OF DISTURBANCE
LP	LOW POINT
LPR	LICENSE PLATE READER
LS	LOAM AND SEED
LSOD	LOAM AND SOD
LT	LEFT
LTP	LIGHT POLE
MAX	MAXIMUM
MB	MAILBOX
MCW	MONOLITHIC CONCRETE WALK
MH	MANHOLE
MIN	MINIMUM
MON	MONITORING
MUTCD	MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION
NIC	NOT IN CONTRACT
NO	NUMBER
NTS	NOT TO SCALE
OCS	OUTLET CONTROL STRUCTURE
OD	OUTSIDE DIAMETER
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
OWS	OIL WATER SEPARATOR
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PCFES	PRECAST CONCRETE FLARED END SECTION
PCTC	PRECAST CONCRETE TRANSITION CURB
PCR	PEDESTRIAN CURB RAMP
PE	POLYETHYLENE
PERF	PERFORATED
PGL	PROFILE GRADE LINE
PHMA	POROUS HOT MIXED ASPHALT PAVEMENT
PI	POINT OF INTERSECTION
PIV	POST INDICATOR VALVE
POC	POINT ON CURVE
POT	POINT ON TANGENT
PM	PAVEMENT MARKING
PRC	POINT OF REVERSE CURVATURE
PROJ	PROJECT
PROP	PROPOSED
PSB	PLANTABLE SOIL BORROW
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVATURE
PVCH	POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
PVMT	PAVEMENT
PWW	PAVED WATER WAY
QPA	QUALIFYING PERVIOUS AREA
R&D	REMOVE AND DISPOSE
R&R	REMOVE AND RESET
R&S	REMOVE AND STACK
R=	RADIUS
RA	RAILING
RCP	REINFORCED CONCRETE PIPE
RDWY	ROADWAY
REM	REMOVE
RET	RETAIN
RET WALL	RETAINING WALL
RRLS	RIPRAP LEVEL SPREADER
ROW	RIGHT OF WAY
RR	RAILROAD
RRS	RIPRAP SLOPE
RS	RIPRAP SPILLWAY
RT	RIGHT
RTAD	REFER TO ARCHITECTURAL DRAWINGS
RTED	REFER TO ELECTRICAL DRAWINGS
RTFPD	REFER TO FIRE PROTECTION DRAWINGS
RTLD	REFER TO LANDSCAPE DRAWINGS
RTMD	REFER TO MECHANICAL DRAWINGS
RTPD	REFER TO PLUMBING DRAWINGS
RTSD	REFER TO STRUCTURAL DRAWINGS
RTUD	REFER TO FOUNDATION DRAIN PLANS
S=	SLOPE
SB	SAND BAG EROSION CONTROL BARRIER
SDR	STANDARD DIMENSIONAL RATIO
SED	SEDIMENT
SESC	SOIL EROSION AND SEDIMENT CONTROL
SFL	STATE FREEWAY LINE
SFCD	SEDIMENT FOREBAY CHECK DAM
SG	SWING GATE
SHL	STATE HIGHWAY LINE
SHLD	SHOULDER
SHLO	STATE HIGHWAY LAYOUT
SHP	HANDICAP PARKING PAVEMENT MARKING
SM	SEDIMENT MARKER
SMH	SEWER MANHOLE
SSD	STOPPING SIGHT DISTANCE
ST	STREET
STA	STATION
SW	SIDEWALK
SWL	SINGLE SOLID WHITE LINE
SWR	SEWER
SYL	SINGLE SOLID YELLOW LINE
T=	TANGENT DISTANCE OF CURVE/TRUCK %
TAN	TANGENT
TD	TEMPORARY DIVERSION
TEMP	TEMPORARY
TC	TOP OF CURB
TDS	TEMPORARY DIVERSION SWALE
TGP	TREE GROUP PROTECTION
TIP	TEMPORARY INLET PROTECTION
TMH	TELEPHONE MANHOLE
TOS	TOP OF SLOPE
TP	TEST PIT
TRAN	TRANSITION
TRM	TURF REINFORCEMENT MAT
TS	TOP OF STAIR (FINISHED GRADE OF TOP STAIR)
TST	TEMPORARY SEDIMENT TRAP
TSW	TEMPORARY SWALE
TW	TOP OF WALL
TYP	TYPICAL
UP	UTILITY POLE
VAR	VARIES
VERT	VERTICAL
VC	VERTICAL CURVE
VCC	VERTICAL CONCRETE CURB
VCP	VEHICULAR CONCRETE PAVEMENT
VFC	VITRIFIED CLAY
VEG	VEGETATION
VEH	VEHICULAR
VFS	VEGETATED FILTER STRIP
VGC	VERTICAL GRANITE CURB
VGTC	VERTICAL GRANITE TRANSITION CURB
VLF	VINYL FENCE
w/	WITH
WG	WATER GATE
WIP	WROUGHT IRON PIPE
WM	WATER METER/WATER MAIN
WMH	WATER MANHOLE
WPM	WATER PAINT MARK
X-SECT	CROSS SECTION
YD	YARD DRAIN
4DY	4" DOUBLE YELLOW EPOXY RESIN PAVEMENT MARKING
4W	4" SOLID WHITE EPOXY RESIN PAVEMENT MARKING
12W	12" SOLID WHITE EPOXY RESIN PAVEMENT MARKING

RHODE ISLAND ABBREVIATIONS

GENERAL

RIDEM	RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
RIDOT	RHODE ISLAND DEPARTMENT OF TRANSPORTATION
RIHP	RHODE ISLAND HIGHWAY PLAT
RIPDES	RHODE ISLAND POLLUTION DISCHARGE ELIMINATION SYSTEM
R.I. STD.	RHODE ISLAND STANDARD

RHODE ISLAND STANDARD DETAILS

2.3.0	=	PRECAST CONCRETE FLARED END SECTION - R.I. STD. 2.3.0
4.2.0	=	PRECAST 4'-0" ROUND MANHOLE - R.I. STD. 4.2.0
4.2.1	=	PRECAST 5'-0' ROUND MANHOLE - R.I. STD. 4.2.1
4.2.2	=	PRECAST 6'-0" ROUND MANHOLE - R.I. STD. 4.2.2
4.4.0M	=	PRECAST 4'-0", 5'-0", OR 6'-0" ROUND CATCH BASIN - R.I. STD. 4.4.0M
4.7.2	=	ALTERNATE TOP COVER FOR ROUND PRECAST MANHOLES AND CATCH BASINS - R.I. STD. 4.7.2
6.2.1	=	HEAVY-DUTY ROUND FRAME AND COVER - R.I. STD. 6.2.1
6.3.2	=	SQUARE FRAME AND GRATE (BICYCLE SAFE) - R.I. STD. 6.3.2
7.1.0	=	PRECAST CONCRETE CURB - R.I. STD. 7.1.0
7.1.1	=	3'-0" PRECAST CONCRETE TRANSITION CURB - R.I. STD. 7.1.1
7.1.2	=	6'-0" PRECAST CONCRETE TRANSITION CURB - R.I. STD. 7.1.2
7.1.4	=	PRECAST CONCRETE 2'-0" RADIUS CURB - R.I. STD. 7.1.4
7.1.9	=	PRECAST CONCRETE RAMP STONE - R.I. STD. 7.1.9
7.2.0	=	PRECAST CONCRETE SLOPED FACE CURB - R.I. STD. 7.2.0
7.3.0	=	GRANITE CURB - R.I. STD. 7.3.0
7.3.1	=	3'-0" GRANITE TRANSITION CURB - R.I. STD. 7.3.1
7.3.2	=	6'-0" GRANITE TRANSITION CURB - R.I. STD. 7.3.2
7.7.0	=	GRANITE TRUCK APRON STONE - R.I. STD. 7.7.0
7.5.1	=	BITUMINOUS BERM - R.I. STD. 7.5.1
9.7.0	=	DEWATERING BASIN - R.I. STD. 9.7.0
9.9.0	=	CONSTRUCTION ACCESS - R.I. STD. 9.9.0
24.2.0	=	SIGN POST SELECTION AND INSTALLATION DETAILS U-CHANNEL POST - R.I. STD. 24.2.0
24.6.0	=	PARKING SIGN MOUNTING DETAIL - R.I. STD. 24.6.0
34.2.0	=	STEEL BEAM GUARDRAIL - R.I. STD. 34.2.0
34.3.2	=	TERMINAL END SECTION (SINGLE FACE) - R.I. STD. 34.3.2
34.3.2	=	STEEL BACKED TIMBER GUARDRAIL - R.I. STD. 34.4.0
43.1.0M	=	CEMENT CONCRETE SIDEWALK (MODIFIED) - R.I. STD. 43.1.0M
43.2.0	=	BITUMINOUS CONCRETE SIDEWALK - R.I. STD. 43.2.0
43.3.0	=	WHEELCHAIR RAMP - R.I. STD. 43.3.0
43.3.1	=	WHEELCHAIR RAMP FOR LIMITED RIGHT-OF-WAY AREAS - R.I. STD. 43.3.1
43.3.2	=	RAMP-LANDING FOR NARROW SIDEWALK - R.I. STD. 43.3.2
48.1.0M	=	DETECTABLE WARNING SYSTEM (MODIFIED) - R.I. STD. 48.1.0M
51.1.1	=	DRIPLINE TREE PROTECTION DEVICE FOR EXISTING TREES - R.I. STD. 51.1.1

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Andrew C. Chapman

LEGEND

EXISTING		PROPOSED
	PROPERTY LINE	
	SETBACKS	
255	CONTOUR	261
X 407.5	SPOT ELEVATION	x 261.5
D D D	DRAINAGE LINE	D D D
W W W	WATER LINE	W W W
	FIRE WATER LINE	FW FW
E E E	ELECTRIC LINE	E E E
S S S	SANITARY SEWER LINE	S S S
G G G	GAS LINE	G G G
	LIMIT OF DISTURBANCE	LOD
	LIMIT OF DISTURBANCE/COMPOST FILTER SOCK	LOD/CFS
B	CATCH BASIN	
	HYDRANT	
D	DRAINAGE MANHOLE	
S	SEWER MANHOLE	
	WATER VALVE	
	TREE LINE	
	STONE WALL	
X X X	FENCE	X X X X
	CURBING	
	EDGE OF PAVEMENT	
	SAWCUT LINE	
	SIGN	
	COMPOST FILTER SOCK	
XXX XXX	WETLAND EDGE	
	BUFFER ZONE	
BXX-X	BORING LOCATION	
TP-X	TEST PIT LOCATION	

RI Environmental Management
JAN 10 2024
Office of Water Resources

PARE

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JOHNSTON, RI 02919

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

Johnston Elementary School
Johnston Public Schools
AP 47, LOTS 8 & 9
Atwood Ave
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DAVID L. POTTER
No. 8665
01.05.24
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

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1	12-22-2023	RIDEM COMMENTS

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CHECKED BY:	MBA
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:
LEGEND

DRAWING NO.:
C1.2

SHEET NO. 3 OF ___

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C201

C202

C203

C204

C205

47/8
N/F
TOWN OF JOHNSTON
BK. 609 PG. 81
16.46 AC

TOWN OF JOHNSTON
BK. 709 PG. 767
13.59 AC

JOHNSTON RECREATION CENTER

CONCESSIONS BUILDING

JOHNSTON SOCCER COMPLEX

JOHNSTON INDOOR ICE RECREATION CENTER

JOHNSTON SENIOR HIGH SCHOOL

ATWOOD AVE (ROUTE 5)

LIMIT OF FIELD EDITED AERIAL MAPPING

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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JAN 1 0 2024
Office of Water Resources

Scale: 1"=60'
0 30' 60' 120'

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DRAWING TITLE:
OVERALL DEMOLITION AND EROSION CONTROL PLAN

DRAWING NO.:
C2.0

SHEET NO. 4 OF ___

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LEGEND

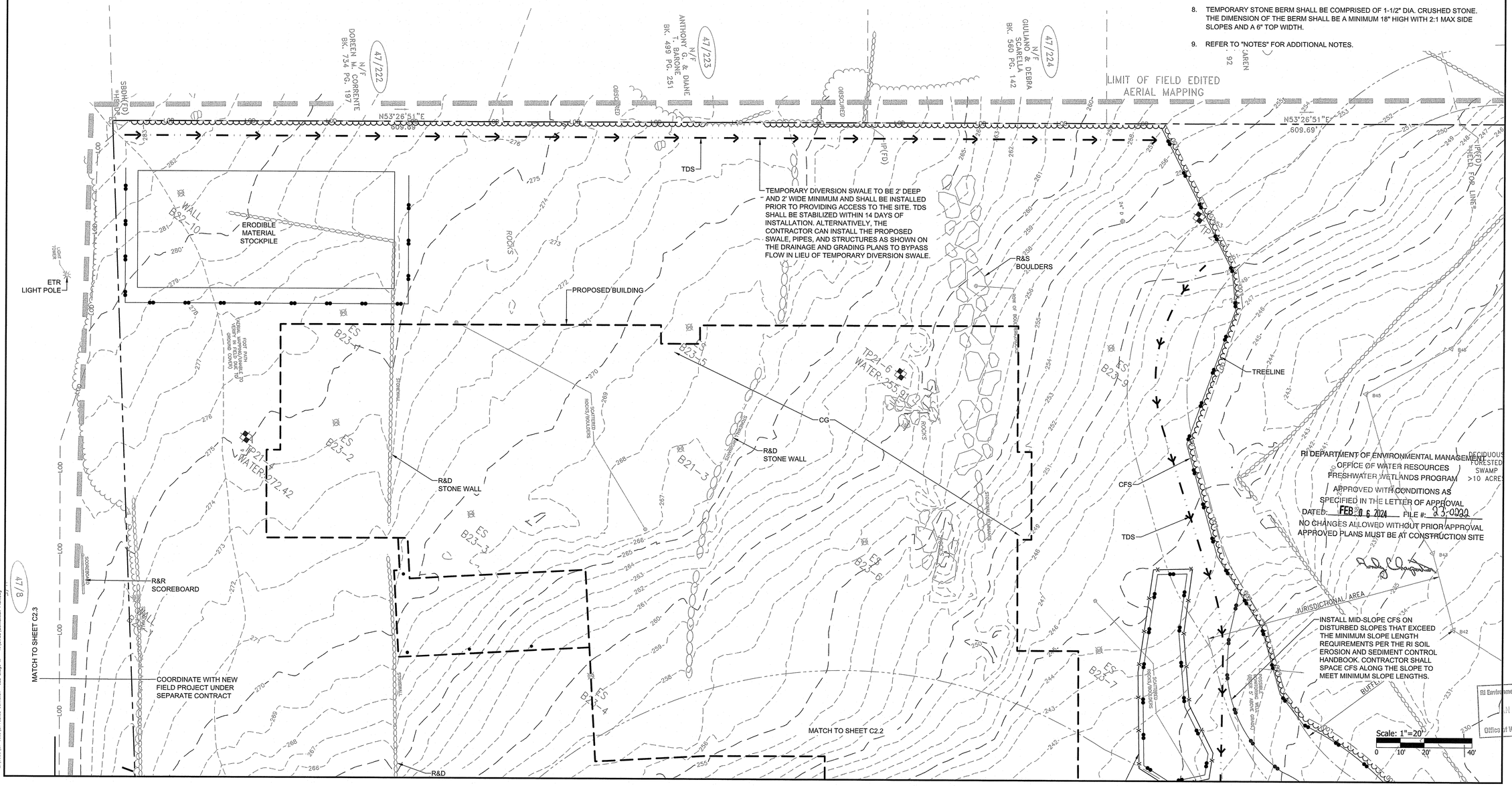
- TDS - TEMPORARY DIVERSION SWALE/BERM
- TST - TEMPORARY SEDIMENT TRAP
- TST LIMITS OF WET STORAGE AREA
- TST LIMITS OF DRY STORAGE AREA
- REMOVE & DISPOSE TREE. DISPOSE OF TREE AND STUMP OFF-SITE.
- PROTECT EXISTING TREE TO REMAIN.
- PRIOR TO COMMENCING WORK, CONTRACTOR SHALL EXCAVATE TEST PIT TO CONFIRM LOCATION, ELEVATION, AND SIZE OF UTILITY. PROVIDE INFORMATION TO ENGINEER.

DEMOLITION NOTES:

1. PRIOR TO COMMENCING SITE WORK IN ANY AREA, THE CONTRACTOR SHALL LOCATE EXISTING UTILITIES WITH THE PROJECT AREA USING GROUND-PENETRATING RADAR OR OTHER NONDESTRUCTIVE SURVEY METHODS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY EXISTING UTILITIES OR STRUCTURES WITHIN THE PROJECT AREA DEPICTED AND NOT DEPICTED ON THE PLANS. ANY DAMAGE TO EXISTING WORKING UTILITIES OR STRUCTURES NOT INTENDED TO BE REMOVED SHALL BE RESTORED TO ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
2. PRIOR TO ANY UTILITY AND/OR DRAINAGE SYSTEM DEMOLITION, PROVISIONS FOR MAINTAINING THE UTILITY SHALL BE APPROVED BY THE OWNER OR THE OWNER'S REPRESENTATIVE BEFORE ANY RELATED WORK MAY COMMENCE.
3. ALL TEMPORARILY CUT UTILITIES SHALL BE PROTECTED FROM SEDIMENTATION UNTIL IT IS CONNECTED IN ITS POST-CONSTRUCTION POSITION.
4. REFER TO "NOTES AND LEGEND" FOR ADDITIONAL NOTES.

EROSION AND SEDIMENT CONTROL NOTES:

1. THE EROSION AND SEDIMENTATION CONTROLS SHOWN ON THE PLANS ARE INTENDED TO REPRESENT THE MINIMUM CONTROLS NECESSARY TO MEET ANTICIPATED SITE CONDITIONS. ADDITIONAL MEASURES SHALL BE IMPLEMENTED AS CONDITIONS WARRANT OR AS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE.
2. CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN SILT SACKS IN ALL EXISTING AND NEWLY INSTALLED CATCH BASINS UNTIL THE UPSTREAM AREA IS STABILIZED.
3. CONTRACTOR SHALL INSTALL AND MAINTAIN CONSTRUCTION ENTRANCES AT ALL POINTS OF EGRESS FROM THE SITE THROUGHOUT CONSTRUCTION.
4. THE CONTRACTOR SHALL MAINTAIN EROSION CONTROLS THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL REPLACE DAMAGED EROSION CONTROLS AT THE OWNER AND ENGINEER'S REQUEST AT NO ADDITIONAL EXPENSE TO THE OWNER.
5. THE CONTRACTOR SHALL NOT LEAVE DISTURBED AREAS UNSTABILIZED FOR PERIODS MORE THAN 14 DAYS. PROVIDE TEMPORARY SEED OR MULCH ON DISTURBED AREAS THAT WILL REMAIN EXPOSED FOR GREATER THAN 14 DAYS.
6. INSTALL EROSION CONTROLS DOWNSTREAM OF ANY DISTURBED AREAS TO REDUCE POTENTIAL FOR EROSION. CONTRACTOR SHALL INDICATE LOCATIONS OF EROSION CONTROLS FOR REVIEW WITH GENERAL CONTRACTOR AND OWNER'S REPRESENTATIVE PRIOR TO COMMENCING WORK.
7. PROVIDE TEMPORARY FENCING AROUND BMP'S. AT NO TIME SHALL ANY CONSTRUCTION EQUIPMENT OR MATERIALS BE STORED IN THE BMP FOOTPRINTS. AVOID THE USE OF HEAVY MACHINERY WITHIN THE FOOTPRINT TO MINIMIZE THE POTENTIAL FOR COMPACTING SOILS. FOLLOWING THE FINAL GRADING OF THE BMP'S, COMPOST FILTER SOCKS SHALL BE INSTALLED AT THE TOE OF SLOPE UNTIL THE SIDE SLOPES AND UPSTREAM CONTRIBUTING AREAS ARE STABILIZED.
8. TEMPORARY STONE BERM SHALL BE COMPRISED OF 1-1/2" DIA. CRUSHED STONE. THE DIMENSION OF THE BERM SHALL BE A MINIMUM 18" HIGH WITH 2:1 MAX SIDE SLOPES AND A 6" TOP WIDTH.
9. REFER TO "NOTES" FOR ADDITIONAL NOTES.



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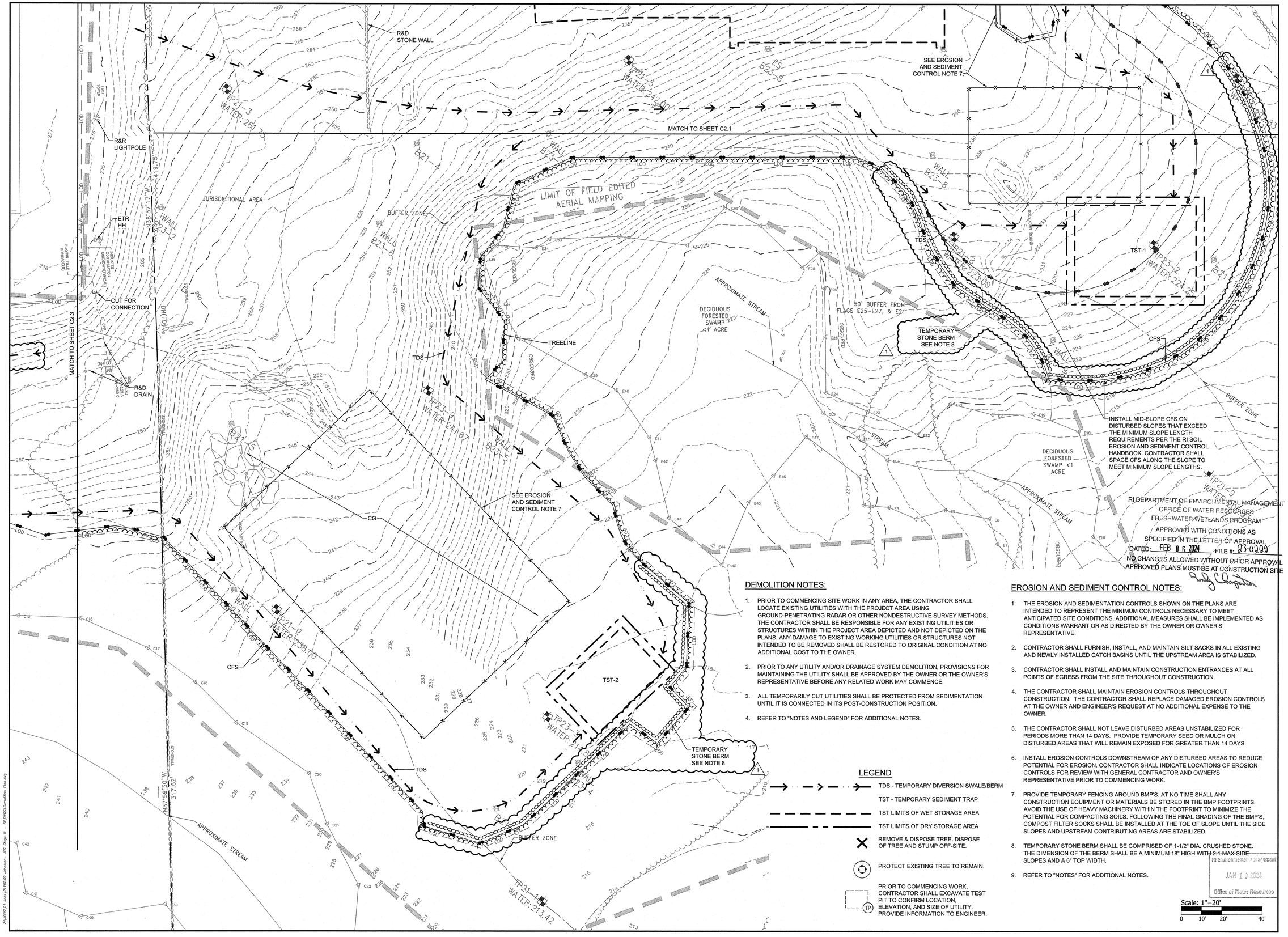
APPROVED BY:	DLP

DRAWING TITLE:
DEMOLITION AND EROSION CONTROL PLAN 1

DRAWING NO.:
C2.1

SHEET NO. 5 OF ___

Z:\JOBS\21 Jobs\21102.02 Johnston - JES Stage III - RI DWGS\Demolition Plan.dwg



DEMOLITION NOTES:

1. PRIOR TO COMMENCING SITE WORK IN ANY AREA, THE CONTRACTOR SHALL LOCATE EXISTING UTILITIES WITH THE PROJECT AREA USING GROUND-PENETRATING RADAR OR OTHER NONDESTRUCTIVE SURVEY METHODS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY EXISTING UTILITIES OR STRUCTURES WITHIN THE PROJECT AREA DEPICTED AND NOT DEPICTED ON THE PLANS. ANY DAMAGE TO EXISTING WORKING UTILITIES OR STRUCTURES NOT INTENDED TO BE REMOVED SHALL BE RESTORED TO ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
2. PRIOR TO ANY UTILITY AND/OR DRAINAGE SYSTEM DEMOLITION, PROVISIONS FOR MAINTAINING THE UTILITY SHALL BE APPROVED BY THE OWNER OR THE OWNER'S REPRESENTATIVE BEFORE ANY RELATED WORK MAY COMMENCE.
3. ALL TEMPORARILY CUT UTILITIES SHALL BE PROTECTED FROM SEDIMENTATION UNTIL IT IS CONNECTED IN ITS POST-CONSTRUCTION POSITION.
4. REFER TO "NOTES AND LEGEND" FOR ADDITIONAL NOTES.

EROSION AND SEDIMENT CONTROL NOTES:

1. THE EROSION AND SEDIMENTATION CONTROLS SHOWN ON THE PLANS ARE INTENDED TO REPRESENT THE MINIMUM CONTROLS NECESSARY TO MEET ANTICIPATED SITE CONDITIONS. ADDITIONAL MEASURES SHALL BE IMPLEMENTED AS CONDITIONS WARRANT OR AS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE.
2. CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN SILT SACKS IN ALL EXISTING AND NEWLY INSTALLED CATCH BASINS UNTIL THE UPSTREAM AREA IS STABILIZED.
3. CONTRACTOR SHALL INSTALL AND MAINTAIN CONSTRUCTION ENTRANCES AT ALL POINTS OF EGRESS FROM THE SITE THROUGHOUT CONSTRUCTION.
4. THE CONTRACTOR SHALL MAINTAIN EROSION CONTROLS THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL REPLACE DAMAGED EROSION CONTROLS AT THE OWNER AND ENGINEER'S REQUEST AT NO ADDITIONAL EXPENSE TO THE OWNER.
5. THE CONTRACTOR SHALL NOT LEAVE DISTURBED AREAS UNSTABILIZED FOR PERIODS MORE THAN 14 DAYS. PROVIDE TEMPORARY SEED OR MULCH ON DISTURBED AREAS THAT WILL REMAIN EXPOSED FOR GREATER THAN 14 DAYS.
6. INSTALL EROSION CONTROLS DOWNSTREAM OF ANY DISTURBED AREAS TO REDUCE POTENTIAL FOR EROSION. CONTRACTOR SHALL INDICATE LOCATIONS OF EROSION CONTROLS FOR REVIEW WITH GENERAL CONTRACTOR AND OWNER'S REPRESENTATIVE PRIOR TO COMMENCING WORK.
7. PROVIDE TEMPORARY FENCING AROUND BMP'S. AT NO TIME SHALL ANY CONSTRUCTION EQUIPMENT OR MATERIALS BE STORED IN THE BMP FOOTPRINTS. AVOID THE USE OF HEAVY MACHINERY WITHIN THE FOOTPRINT TO MINIMIZE THE POTENTIAL FOR COMPACTING SOILS. FOLLOWING THE FINAL GRADING OF THE BMP'S, COMPOST FILTER SOCKS SHALL BE INSTALLED AT THE TOE OF SLOPE UNTIL THE SIDE SLOPES AND UPSTREAM CONTRIBUTING AREAS ARE STABILIZED.
8. TEMPORARY STONE BERM SHALL BE COMPRISED OF 1-1/2" DIA. CRUSHED STONE. THE DIMENSION OF THE BERM SHALL BE A MINIMUM 18" HIGH WITH 2:1 MAX SIDE SLOPES AND A 6" TOP WIDTH.
9. REFER TO "NOTES" FOR ADDITIONAL NOTES.

LEGEND

- TDS - TEMPORARY DIVERSION SWALE/BERM
- TST - TEMPORARY SEDIMENT TRAP
- TST LIMITS OF WET STORAGE AREA
- TST LIMITS OF DRY STORAGE AREA
- REMOVE & DISPOSE TREE. DISPOSE OF TREE AND STUMP OFF-SITE.
- PROTECT EXISTING TREE TO REMAIN.
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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: FEB 06 2024 FILE #: 23-0300
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

RI Environmental Management
JAN 12 2024
Office of Water Resources

Scale: 1"=20'
0 10' 20' 40'

PARE

OWNER:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

APPLICANT:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

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

Johnston Elementary School
Johnston Public Schools
AP 47, LOTS 8 & 9
Atwood Ave
Johnston, RI

DAVID L. POTTER
No. 8665
01.05.24
REGISTERED PROFESSIONAL ENGINEER
CIVIL

REVISIONS:		
1	12-22-2023	RIDEM COMMENTS

PROJECT NO.:	21102.02
DATE:	OCTOBER 16, 2023
SCALE:	AS NOTED
DESIGNED BY:	KJM
CHECKED BY:	MBA
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:
DEMOLITION AND EROSION CONTROL PLAN 2

DRAWING NO.:
C2.2

SHEET NO. 6 OF

Z:\2021\21102.02 Johnston Elementary School\Civil\Design\Plans\21102.02 Johnston- Elementary School - Step # - Plan Set\DWGS\Demolition Plan.dwg

EROSION AND SEDIMENT CONTROL NOTES:

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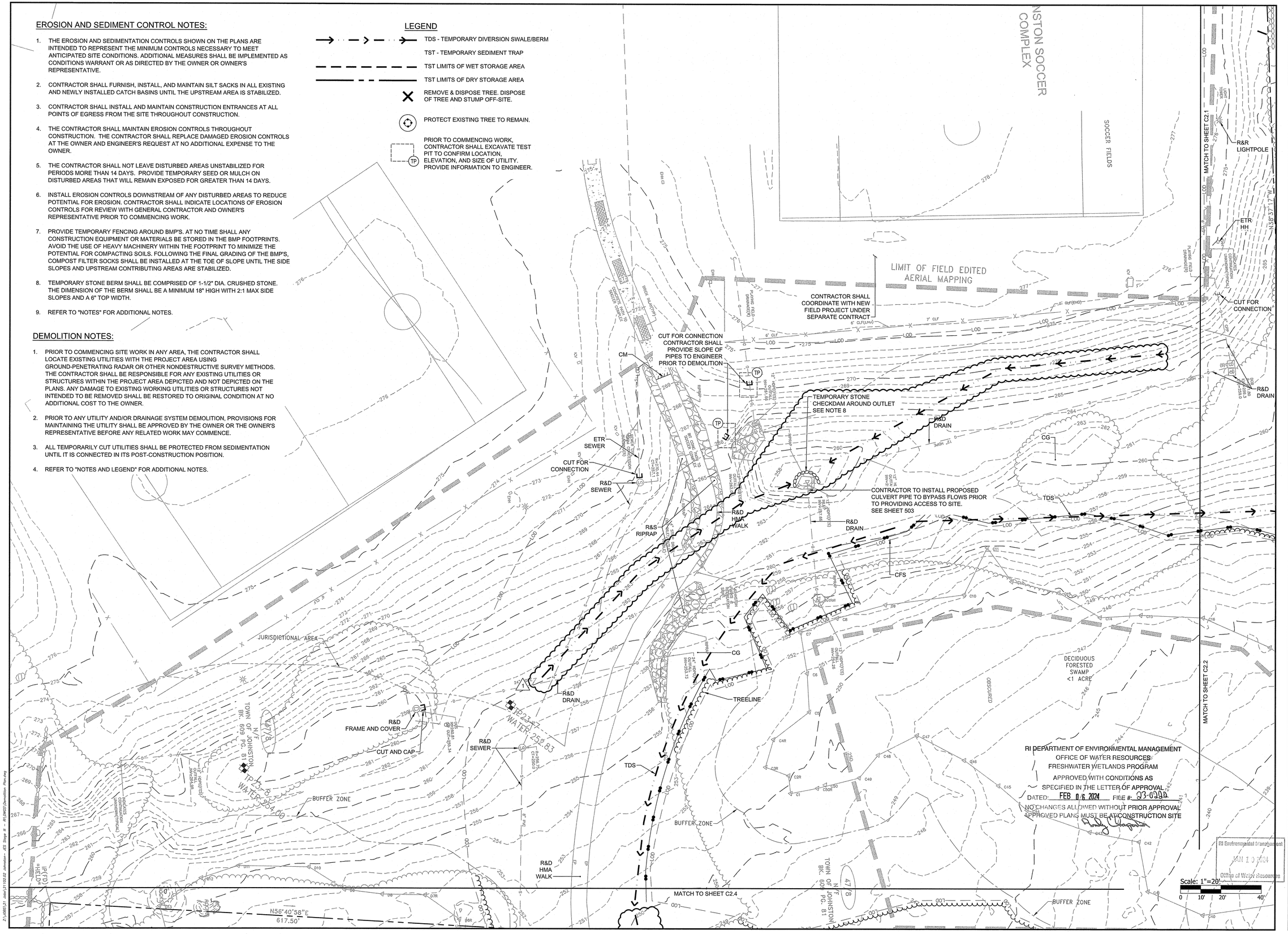

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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RI Environmental Management
JAN 10 2024
Office of Water Resources

PARE

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JOHNSTON, RI 02919

APPLICANT:
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SCALE ADJUSTMENT GUIDE
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Johnston Elementary School
Johnston Public Schools
AP 47, LOTS 8 & 9
Atwood Ave
Johnston, RI

DAVID L. POTTER
No. 8665
01.05.24
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:		
1	12-22-2023	RIDEM COMMENTS

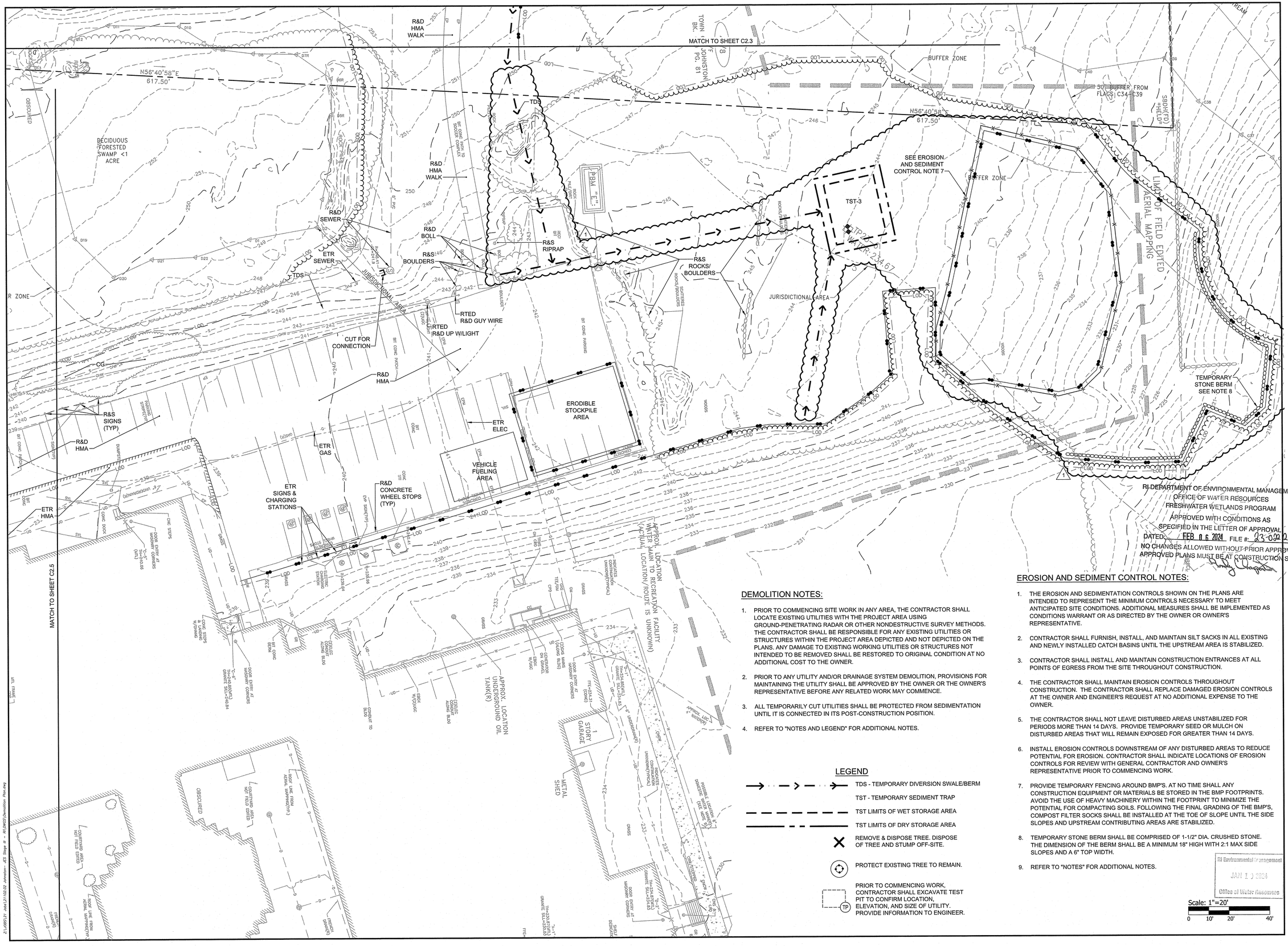
PROJECT NO.:	21102.02
DATE:	OCTOBER 16, 2023
SCALE:	AS NOTED
DESIGNED BY:	KJM
CHECKED BY:	MBA
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:
DEMOLITION AND EROSION CONTROL PLAN 3

DRAWING NO.:
C2.3

SHEET NO. 7 OF

Z:\JOBS\21102.02 Johnston- JES Stage II - RI\DWGS\Demolition Plan.dwg



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DATED: FEB 06 2024 FILE #: 23-0292
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RI Environmental Management
JAN 19 2024
Office of Water Resources

Scale: 1"=20'
0 10' 20' 40'

PARE

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Johnston Elementary School
Johnston Public Schools
AP 47, LOTS 8 & 9
Atwood Ave
Johnston, RI

DAVID L. POTTER
No. 8665
01.05.24
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:		
1	12-22-2023	RIDEM COMMENTS

PROJECT NO.:	21102.02
DATE:	OCTOBER 16, 2023
SCALE:	AS NOTED
DESIGNED BY:	KJM
CHECKED BY:	MBA
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:
DEMOLITION AND EROSION CONTROL PLAN 4

DRAWING NO.:
C2.4

SHEET NO. 8 OF ___

Z:\21102.02 - Johnston - JPS Steps # - RI (CIVIL)\Demolition Plans.dwg

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RI Environmental Management
JAN 19 2024

PARE

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REVISIONS:		
1	12-22-2023	RIDEM COMMENTS

PROJECT NO.:	21102.02
DATE:	OCTOBER 16, 2023
SCALE:	AS NOTED
DESIGNED BY:	KJM
CHECKED BY:	MBA
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:
DEMOLITION AND EROSION CONTROL PLAN 5

DRAWING NO.:
C2.5

SHEET NO. 9 OF ___

Z:\JOBS\21 Jobs\21102.02 Johnston - JES Slope III - RI\DWGS\Demolition Plan.dwg

ZONING TABLE		
ZONE: R40-RESIDENTIAL EXISTING USE: SCHOOL AND PUBLIC RECREATION PROPOSED USE: SCHOOL AND PUBLIC RECREATION		
AP 47 LOT 9 = 43.59 ACRES AP 47 LOT 8 = 16.46 ACRES TOTAL AREA = 60.05 ACRES		
BUILDING FOOTPRINT PR. ELEMENTARY SCHOOL = 51,118 SF EX. HIGH SCHOOL = 95,500 SF EX. POLICE STATION = 7,500 SF TOTAL = 154,118 SF		
	REQUIRED	PROVIDED
FRONT SETBACK	40 Ft	78.6 FT (HIGH SCHOOL)
SIDE SETBACK	35 Ft	58 Ft
REAR SETBACK	75 Ft	85 Ft
MIN. LOT FRONTAGE	140 Ft	1,330 Ft
MIN. LOT SIZE	40,000 SF	>40,000 SF
MAX. BUILDING HEIGHT	35 Ft	70 Ft
MAX. BUILDING COVERAGE	15%	8.10%

PARKING SPACES REQUIRED BY ZONING ORDINANCE:
"ALL OTHER USES": 4 SPACES/1,000 SF GROSS FLOOR AREA
4 SPACES/1,000 SF x 137,293 SF = 549 SPACES

PARKING SPACES REQUIRED	
	REQUIRED
TEACHERS & STAFF	145
VISITOR SPACES	15
TOTAL SPACES REQUIRED	160

ABOVE TEACHER, STAFF AND VISITOR COUNTS PROVIDED BY JOHNSTON SCHOOLS

PARKING SPACES PROVIDED PROVIDED: 1 SPACE PER TEACHER/STAFF PLUS 15 VISITOR SPACES	
	PROVIDED
STANDARD SPACES (9'X18')	178
ACCESSIBLE SPACES*	8
TOTAL SPACES	186

*ADA REQUIREMENT FOR PARKING LOT:
151 TO 200 TOTAL SPACES = 6 SPACES

ZONING RELIEF

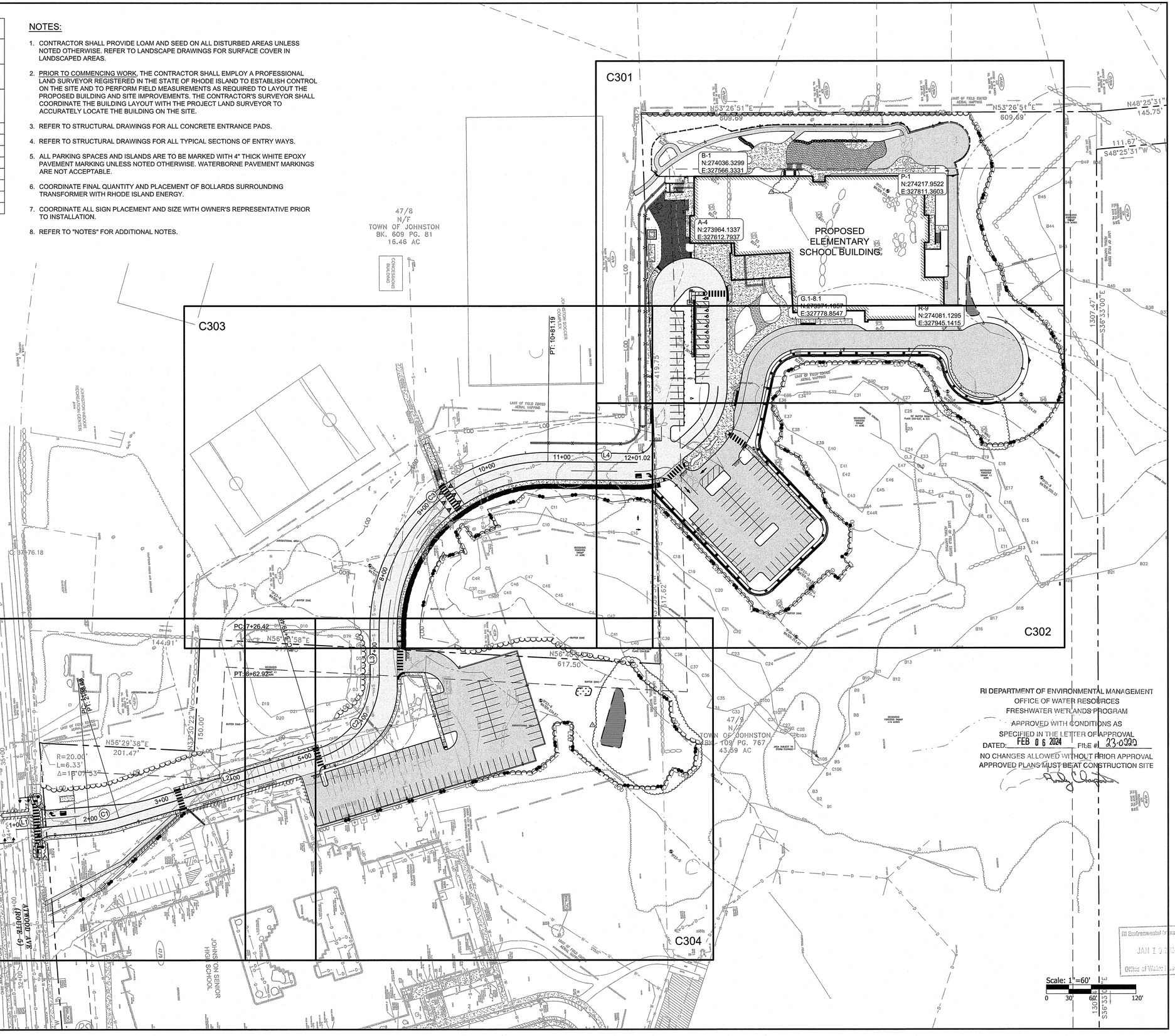
A SPECIAL PERMIT IS REQUESTED IN CONFORMANCE WITH SECTION 340-8 OF THE TOWN OF JOHNSTON ZONING ORDINANCE FOR CONSTRUCTION OF AN "ELEMENTARY OR SECONDARY SCHOOL, JUNIOR COLLEGE OR UNIVERSITY" WITHIN THE R40 ZONING DISTRICT

THE FOLLOWING RELIEF FROM THE ZONING ORDINANCE IS REQUESTED:

1. SECTION 340-9: RELIEF FROM THE MAXIMUM BUILDING HEIGHT OF 35 FEET, UP TO 70 FEET.
2. SECTION 340-29: RELIEF FROM THE ORDINANCE REQUIRED 549 PARKING SPACES FOR "ALL OTHER USES", TO 186 SPACES AS DETERMINED TO BE SUFFICIENT FOR THE SCHOOL'S EXPECTED TEACHER, STAFF, AND VISITOR LOADS.

NOTES:

1. CONTRACTOR SHALL PROVIDE LOAM AND SEED ON ALL DISTURBED AREAS UNLESS NOTED OTHERWISE. REFER TO LANDSCAPE DRAWINGS FOR SURFACE COVER IN LANDSCAPED AREAS.
2. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL EMPLOY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF RHODE ISLAND TO ESTABLISH CONTROL ON THE SITE AND TO PERFORM FIELD MEASUREMENTS AS REQUIRED TO LAYOUT THE PROPOSED BUILDING AND SITE IMPROVEMENTS. THE CONTRACTOR'S SURVEYOR SHALL COORDINATE THE BUILDING LAYOUT WITH THE PROJECT LAND SURVEYOR TO ACCURATELY LOCATE THE BUILDING ON THE SITE.
3. REFER TO STRUCTURAL DRAWINGS FOR ALL CONCRETE ENTRANCE PADS.
4. REFER TO STRUCTURAL DRAWINGS FOR ALL TYPICAL SECTIONS OF ENTRY WAYS.
5. ALL PARKING SPACES AND ISLANDS ARE TO BE MARKED WITH 4" THICK WHITE EPOXY PAVEMENT MARKING UNLESS NOTED OTHERWISE. WATERBORNE PAVEMENT MARKINGS ARE NOT ACCEPTABLE.
6. COORDINATE FINAL QUANTITY AND PLACEMENT OF BOLLARDS SURROUNDING TRANSFORMER WITH RHODE ISLAND ENERGY.
7. COORDINATE ALL SIGN PLACEMENT AND SIZE WITH OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
8. REFER TO "NOTES" FOR ADDITIONAL NOTES.



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OFFICE OF WATER RESOURCES
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1385 HARTFORD AVENUE
JOHNSTON, RI 02919

APPLICANT:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

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

Johnston Elementary School
Johnston Public Schools
AP 47, LOTS 8 & 9
Atwood Ave
Johnston, RI

DAVID L. POTTER
No. 8665
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
01.05.24

REVISIONS:		
1	12-22-2023	RIDEM COMMENTS

PROJECT NO.:	21102.02
DATE:	OCTOBER 16, 2023
SCALE:	AS NOTED
DESIGNED BY:	KJM
CHECKED BY:	MBA
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:
OVERALL GENERAL PLAN

DRAWING NO.:
C3.0

SHEET NO. 10 OF

Z:\JOBS\21 JOBS\21102.02 Johnston - JES Stage III - RI\DWGS\General Plan.dwg

NOTES:

1. CONTRACTOR SHALL PROVIDE LOAM AND SEED ON ALL DISTURBED AREAS UNLESS NOTED OTHERWISE. REFER TO LANDSCAPE DRAWINGS FOR SURFACE COVER IN LANDSCAPED AREAS.
2. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL EMPLOY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF RHODE ISLAND TO ESTABLISH CONTROL ON THE SITE AND TO PERFORM FIELD MEASUREMENTS AS REQUIRED TO LAYOUT THE PROPOSED BUILDING AND SITE IMPROVEMENTS. THE CONTRACTOR'S SURVEYOR SHALL COORDINATE THE BUILDING LAYOUT WITH THE PROJECT LAND SURVEYOR TO ACCURATELY LOCATE THE BUILDING ON THE SITE.
3. REFER TO STRUCTURAL DRAWINGS FOR ALL CONCRETE ENTRANCE PADS.
4. REFER TO STRUCTURAL DRAWINGS FOR ALL TYPICAL SECTIONS OF ENTRY WAYS.
5. ALL PARKING SPACES AND ISLANDS ARE TO BE MARKED WITH 4" THICK WHITE EPOXY PAVEMENT MARKING UNLESS NOTED OTHERWISE. WATERBORNE PAVEMENT MARKINGS ARE NOT ACCEPTABLE.
6. COORDINATE FINAL QUANTITY AND PLACEMENT OF BOLLARDS SURROUNDING TRANSFORMER WITH RHODE ISLAND ENERGY.
7. COORDINATE ALL SIGN PLACEMENT AND SIZE WITH OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
8. REFER TO "NOTES" FOR ADDITIONAL NOTES.

PROPOSED ELEMENTARY SCHOOL BUILDING FFE=261.00

LIMIT OF FIELD EDITED AERIAL MAPPING

BUILDING SETBACK

JURISDICTIONAL AREA

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: FEB 06 2024 FILE #: 23-0000
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

RI Environmental Management
JAN 10 2024
Office of Water Resources

Scale: 1"=20'
0 10' 20' 40'

PARE

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1385 HARTFORD AVENUE
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APPLICANT:
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DAVID L. POTTER
No. 8665
01.05.24
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

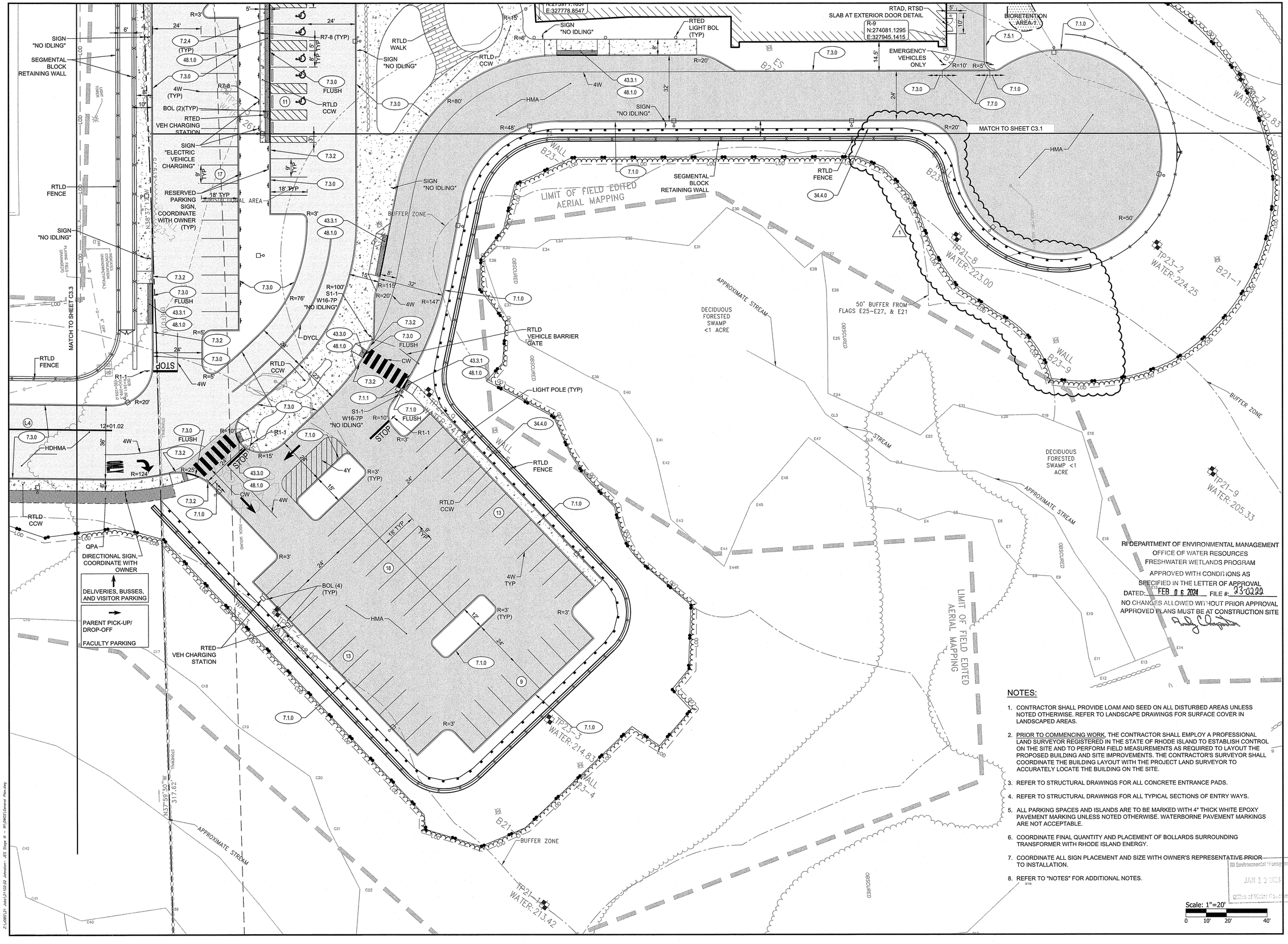
REVISIONS:		
1	12-22-2023	RIDEM COMMENTS

PROJECT NO.:	21102.02
DATE:	OCTOBER 16, 2023
SCALE:	AS NOTED
DESIGNED BY:	KJM
CHECKED BY:	MBA
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:
GENERAL PLAN 1

DRAWING NO.:
C3.1

SHEET NO. 11 OF



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: FEB 06 2024 FILE #: 23-0220
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE

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Scale: 1"=20'
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RI Environmental Management
JAN 19 2024
Office of Water Resources

PARE

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01.05.24

REVISIONS:		
1	12-22-2023	RIDEM COMMENTS

PROJECT NO.:	21102.02
DATE:	OCTOBER 16, 2023
SCALE:	AS NOTED
DESIGNED BY:	KJM
CHECKED BY:	MBA
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:
GENERAL PLAN 2

DRAWING NO.:
C3.2

SHEET NO. 12 OF

Z:\JOBS\21_Jobs\21102.02_Johnston-_JES_Stage_III_-_Rt\DWGS\General Plan.dwg

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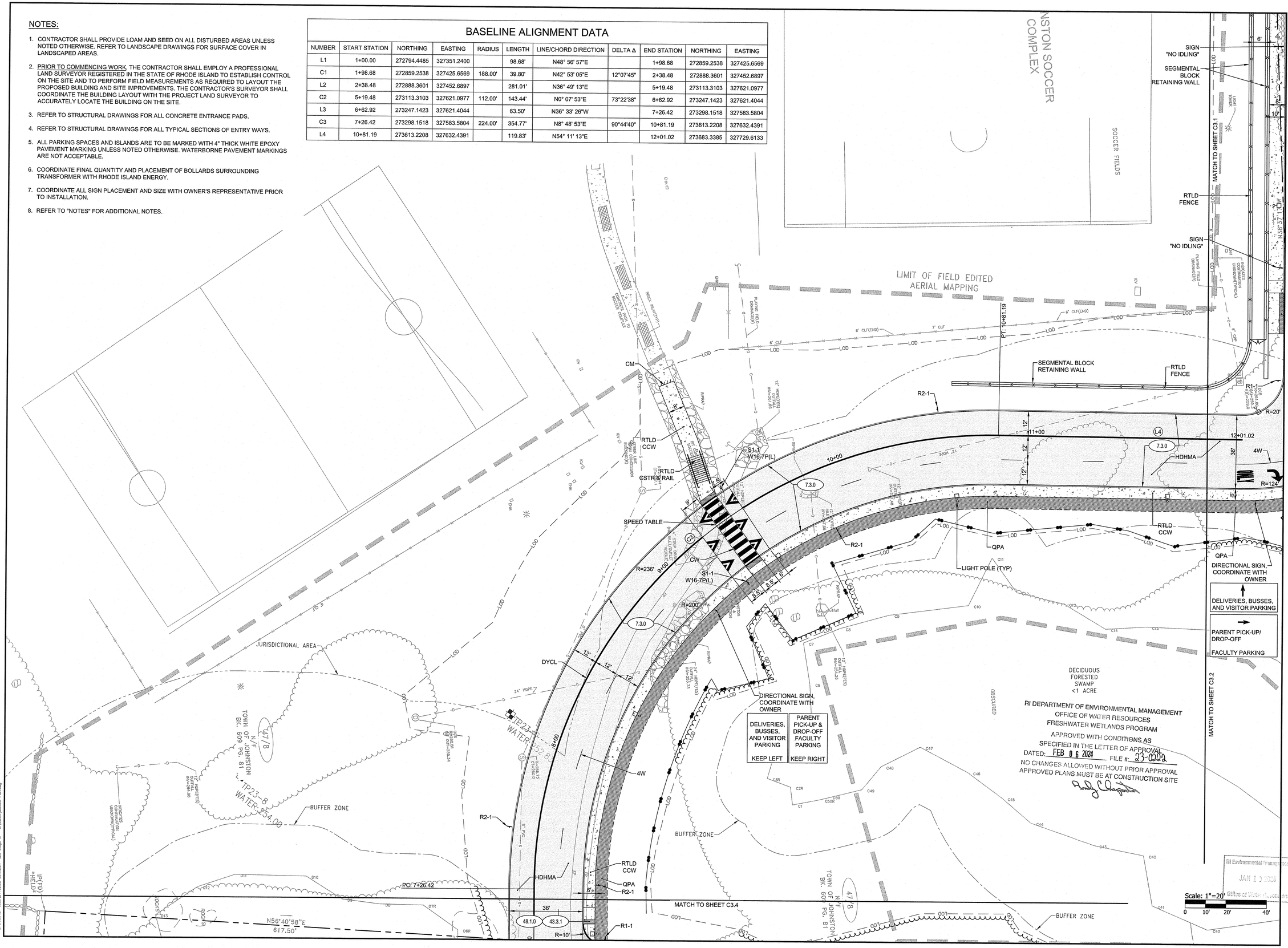
BASELINE ALIGNMENT DATA

NUMBER	START STATION	NORTHING	EASTING	RADIUS	LENGTH	LINE/CHORD DIRECTION	DELTA Δ	END STATION	NORTHING	EASTING
L1	1+00.00	272794.4485	327351.2400		98.68'	N48° 56' 57"E		1+98.68	272859.2538	327425.6569
C1	1+98.68	272859.2538	327425.6569	188.00'	39.80'	N42° 53' 05"E	12°07'45"	2+38.48	272888.3601	327452.6897
L2	2+38.48	272888.3601	327452.6897		281.01'	N36° 49' 13"E		5+19.48	273113.3103	327621.0977
C2	5+19.48	273113.3103	327621.0977	112.00'	143.44'	N0° 07' 53"E	73°22'38"	6+62.92	273247.1423	327621.4044
L3	6+62.92	273247.1423	327621.4044		63.50'	N36° 33' 26"W		7+26.42	273298.1518	327583.5804
C3	7+26.42	273298.1518	327583.5804	224.00'	354.77'	N8° 48' 53"E	90°44'40"	10+81.19	273613.2208	327632.4391
L4	10+81.19	273613.2208	327632.4391		119.83'	N54° 11' 13"E		12+01.02	273683.3385	327729.6133



PARE

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JOHNSTON, RI 02919

APPLICANT:
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DAVID L. POTTER
No. 8665
01.05.24
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(CIVIL)

REVISIONS:

1	12-22-2023	RIDEM COMMENTS

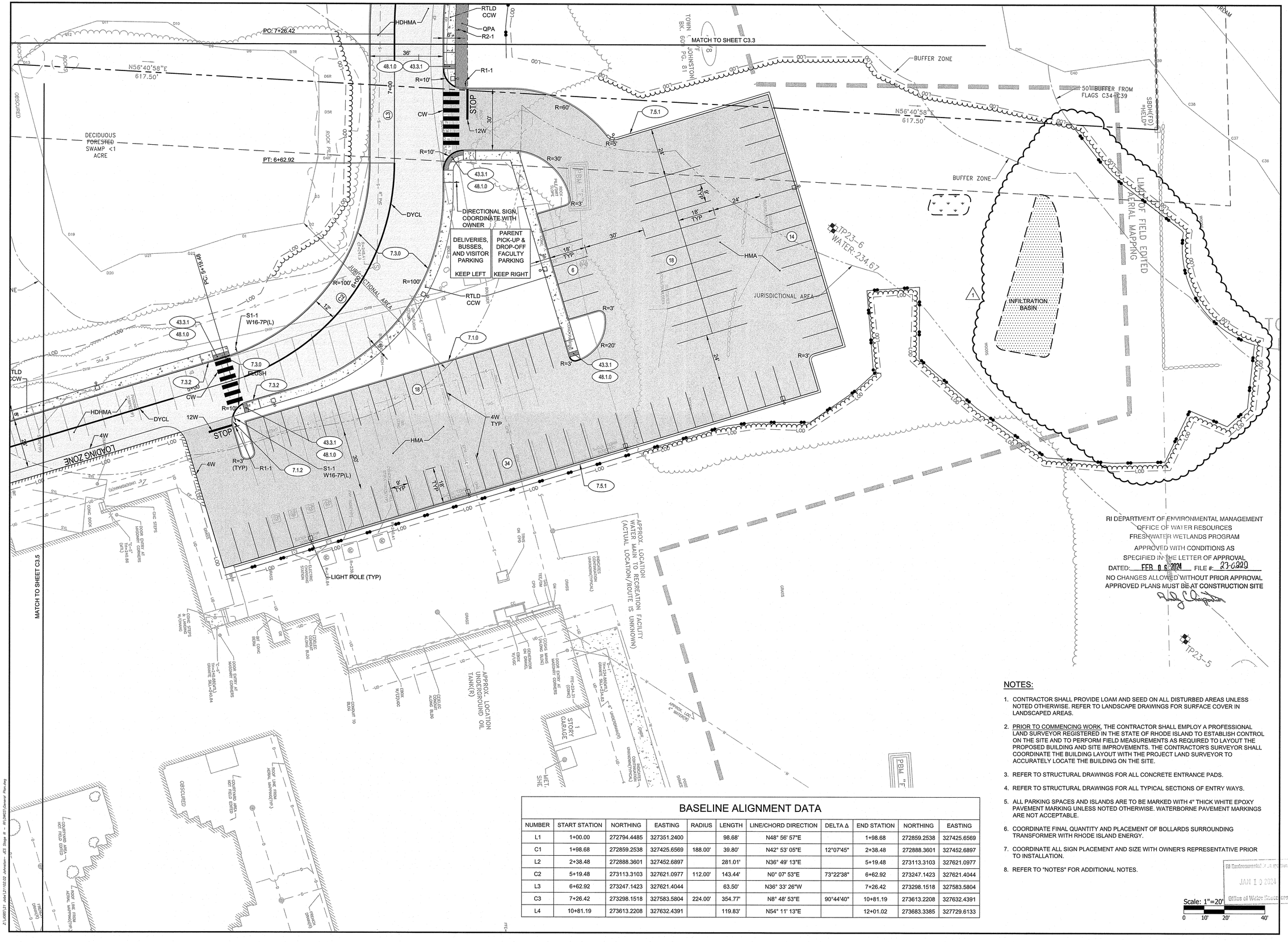
PROJECT NO.:	21102.02
DATE:	OCTOBER 16, 2023
SCALE:	AS NOTED
DESIGNED BY:	KJM
CHECKED BY:	MBA
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:
GENERAL PLAN 3

DRAWING NO.:
C3.3

SHEET NO. 13 OF ___

P:\JOBS\21-JobsTo\102.02-Johnston--ES Repr III -- RI\DWGS\General Plan.dwg



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RI Environmental Management
JAN 10 2024
Office of Water Resources

PARE

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1385 HARTFORD AVENUE
JOHNSTON, RI 02919

APPLICANT:
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DAVID L. POTTER
No. 8665
01.05.24
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:

1	12-22-2023	RIDEM COMMENTS

PROJECT NO.:	21102.02
DATE:	OCTOBER 16, 2023
SCALE:	AS NOTED
DESIGNED BY:	KJM
CHECKED BY:	MBA
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:
GENERAL PLAN 4

DRAWING NO.:
C3.4

SHEET NO. 14 OF ___

Z:\2021\21 Jobs\21102.02 Johnston - JES\Dwg\Plan Sets\Dwg # - JES GENERAL Plan.dwg

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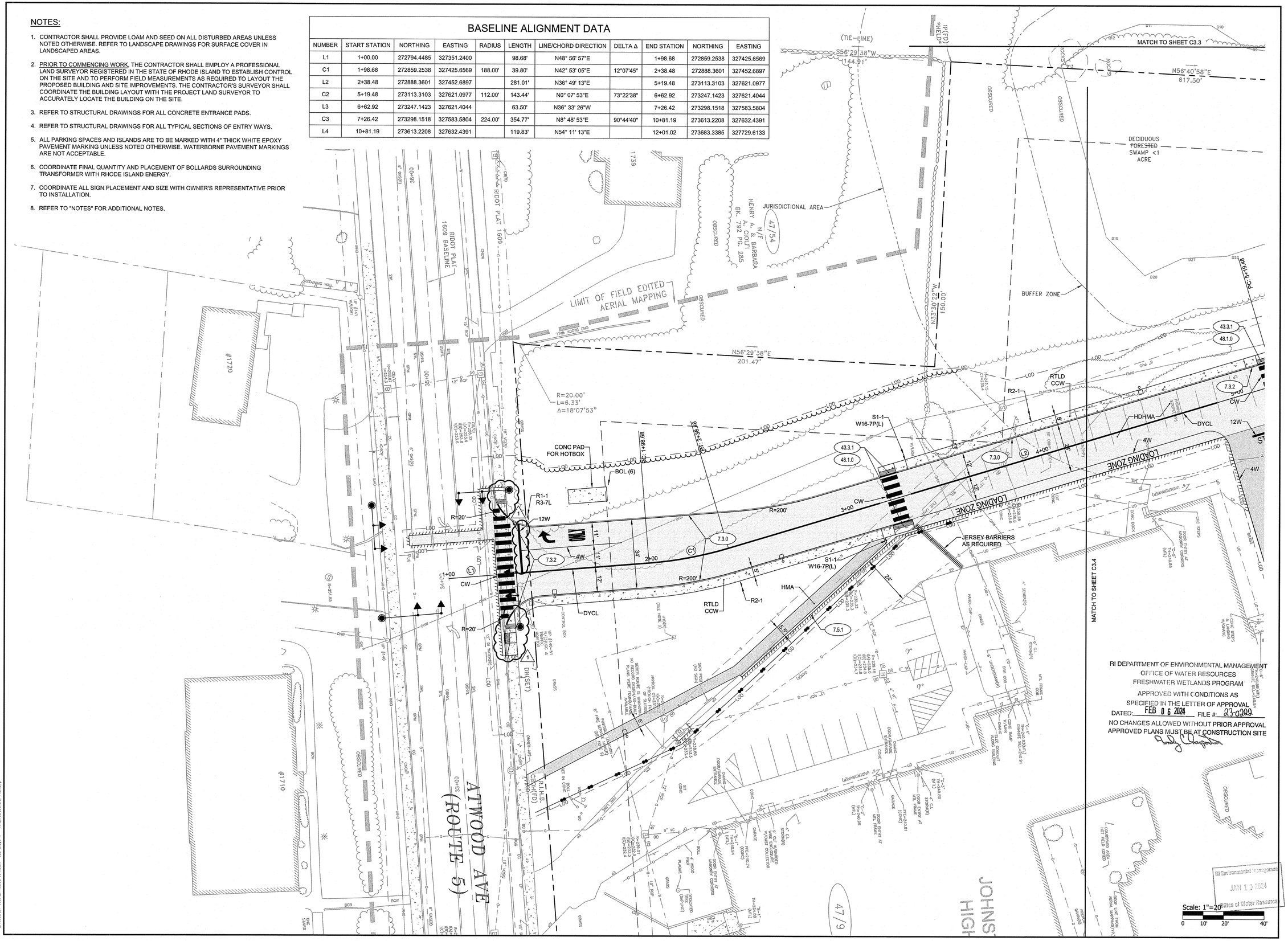

PARE

OWNER:
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SCALE ADJUSTMENT GUIDE
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01.05.24

REVISIONS:		
1	12-22-2023	RIDEM COMMENTS

PROJECT NO.:	21102.02
DATE:	OCTOBER 16, 2023
SCALE:	AS NOTED
DESIGNED BY:	KJM
CHECKED BY:	MBA
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:
GENERAL PLAN 5

DRAWING NO.:
C3.5

SHEET NO. 15 OF ____

P:\JOBS\21-21xx\21102.02 Johnston - JES Phase II - RI\DWG\General Plan.dwg

C401

C403

C402

C405

C404

47/8
N/F
TOWN OF JOHNSTON
BK. 609 PG. 81
16.46 AC

TOWN OF JOHNSTON
BK. 109 PG. 767
43.59 AC

JOHNSTON RECREATION CENTER

CONVERSIONS BUILDING

JOHNSTON SENIOR HIGH SCHOOL

PROPOSED ELEMENTARY SCHOOL BUILDING

PROPOSED SOCCER FIELD

PROPOSED ATHLETIC FIELD

PROPOSED PLAYGROUND

PROPOSED ASPHALT PAVING

PROPOSED CONCRETE SIDEWALK

PROPOSED CONCRETE CURB

PROPOSED BITUMINOUS CONCRETE CURB

PROPOSED CONCRETE CURB TYPE 1

PROPOSED CONCRETE CURB TYPE 2

PROPOSED CONCRETE CURB TYPE 3

PROPOSED CONCRETE CURB TYPE 4

PROPOSED CONCRETE CURB TYPE 5

PROPOSED CONCRETE CURB TYPE 6

PROPOSED CONCRETE CURB TYPE 7

PROPOSED CONCRETE CURB TYPE 8

PROPOSED CONCRETE CURB TYPE

NOTES:

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3. PITCH EVENLY BETWEEN SPOT GRADES. ALL PAVED AREAS MUST PITCH TO DRAIN AT A MIN. OF 1/8" PER FOOT UNLESS SPECIFIED.
4. THE PROPOSED WALKWAYS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2% AND A MAXIMUM RUNNING SLOPE OF 5% AS SHOWN ON CONSTRUCTION DETAILS.
5. ALL GRADING AT ACCESSIBLE ROUTES SHALL COMPLY WITH THE RULES AND REGULATIONS OF THE AMERICANS WITH DISABILITIES ACT (ADA) OF 2010, LATEST EDITION.
6. BASIN BERM SHALL BE CONSTRUCTED WITH COMMON BORROW PLACED IN 12" LEFTS AND COMPACTED TO 95% TO FINISH GRADE. REMOVE ALL EXISTING TOPSOIL AND ORGANIC MATERIAL PRIOR TO CONSTRUCTING BASIN BERM.
7. TURF REINFORCEMENT MAT (TRM) SHALL BE INSTALLED ON ALL SLOPES 3:1 OR GREATER.
8. REFER TO "NOTES" FOR ADDITIONAL NOTES.

PROPOSED ELEMENTARY SCHOOL BUILDING FFE=261.00

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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DATED: FEB 06 2024 FILE #: 23-0220
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

MATCH TO SHEET C4.3

MATCH TO SHEET C4.2

Scale: 1"=20'

PARE

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DRAWN BY:	AKL
APPROVED BY:	DLP

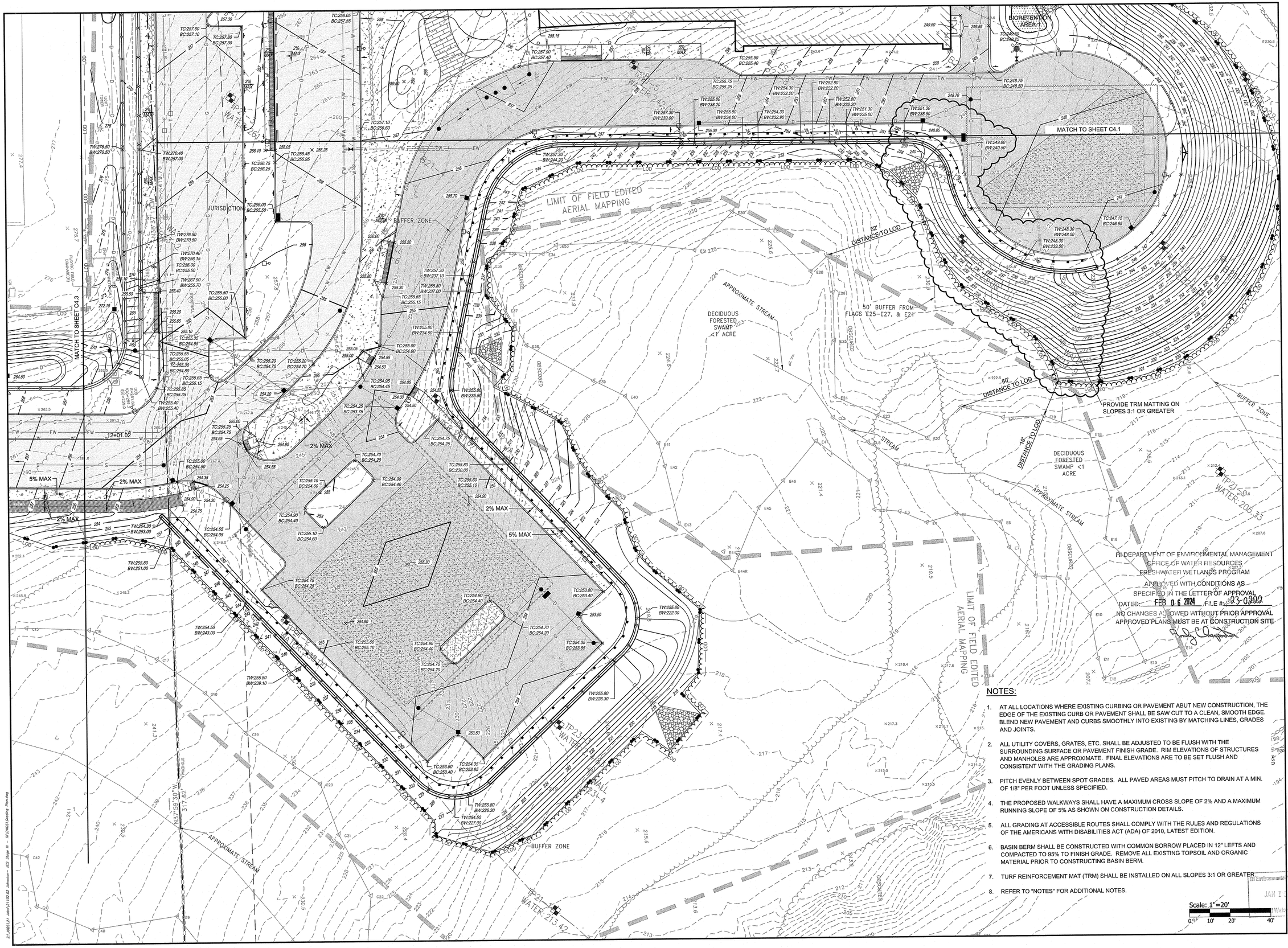
DRAWING TITLE:
GRADING PLAN 1

JAN 19 2024

DRAWING NO.:
C4.1

SHEET NO. 17 OF

Z:\JOBS\21102.02 Johnston - JES Stage III - RI\CIVIL\Grading Plan.dwg



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4. THE PROPOSED WALKWAYS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2% AND A MAXIMUM RUNNING SLOPE OF 5% AS SHOWN ON CONSTRUCTION DETAILS.
5. ALL GRADING AT ACCESSIBLE ROUTES SHALL COMPLY WITH THE RULES AND REGULATIONS OF THE AMERICANS WITH DISABILITIES ACT (ADA) OF 2010, LATEST EDITION.
6. BASIN BERM SHALL BE CONSTRUCTED WITH COMMON BORROW PLACED IN 12" LEFTS AND COMPACTED TO 95% TO FINISH GRADE. REMOVE ALL EXISTING TOPSOIL AND ORGANIC MATERIAL PRIOR TO CONSTRUCTING BASIN BERM.
7. TURF REINFORCEMENT MAT (TRM) SHALL BE INSTALLED ON ALL SLOPES 3:1 OR GREATER.
8. REFER TO "NOTES" FOR ADDITIONAL NOTES.

Scale: 1"=20'
0 10' 20' 40'

RI Environmental Permit Control
JAN 1 2024
Water R...

PARE

OWNER:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

APPLICANT:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

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

Johnston Elementary School
Johnston Public Schools
AP 47, LOTS 8 & 9
Atwood Ave
Johnston, RI

DAVID L. POTTER
No. 8665
01.05.24
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:

1	12-22-2023	RIDEM COMMENTS

PROJECT NO.:	21102.02
DATE:	OCTOBER 16, 2023
SCALE:	AS NOTED
DESIGNED BY:	KJM
CHECKED BY:	MBA
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:
GRADING PLAN 2

DRAWING NO.:
C4.2

SHEET NO. 18 OF ___

Z:\JOBS\21 - Jobs\21102.02 Johnston - JES Stage III - RI\CIVIL\03 Grading Plan.dwg

NOTES:

1. AT ALL LOCATIONS WHERE EXISTING CURBING OR PAVEMENT ABUT NEW CONSTRUCTION, THE EDGE OF THE EXISTING CURB OR PAVEMENT SHALL BE SAW CUT TO A CLEAN, SMOOTH EDGE. BLEND NEW PAVEMENT AND CURBS SMOOTHLY INTO EXISTING BY MATCHING LINES, GRADES AND JOINTS.
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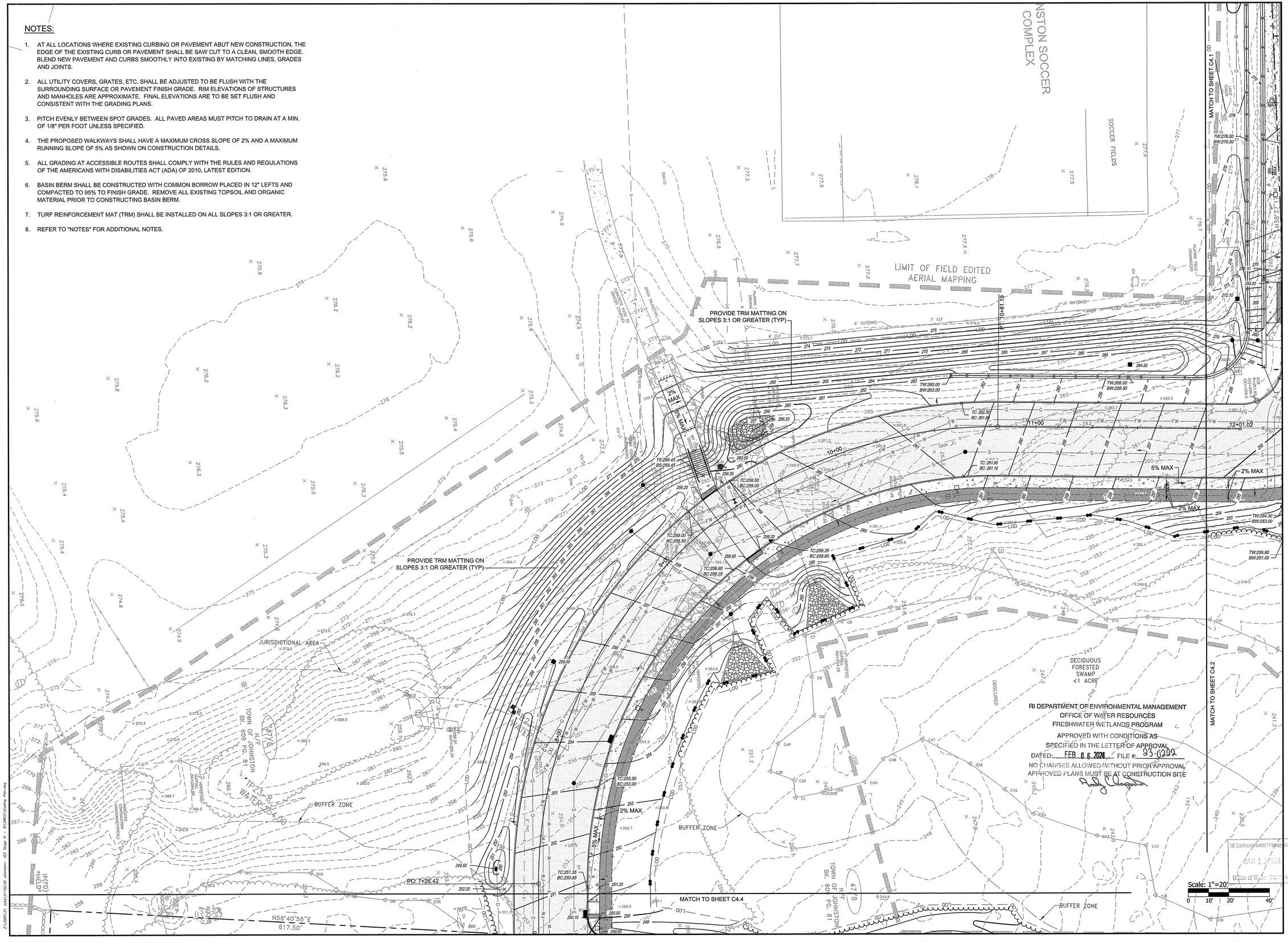

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: FEB 06 2024 FILE #: 23-0299
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

RI Environmental Management
JAN 1 3 2024
Office of Water Resources

PARE

OWNER:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

APPLICANT:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
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SCALE ADJUSTMENT GUIDE
0" 1"
BAR IS ONE INCH ON ORIGINAL DRAWING

Johnston Elementary School
Johnston Public Schools
AP 47, LOTS 8 & 9
Atwood Ave
Johnston, RI

DAVID L. POTTER
No. 8665
11.05.24
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:		
1	12-22-2023	RIDEM COMMENTS

PROJECT NO.:	21102.02
DATE:	OCTOBER 16, 2023
SCALE:	AS NOTED
DESIGNED BY:	KJM
CHECKED BY:	MBA
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:
GRADING PLAN 3

DRAWING NO.:
C4.3
SHEET NO. 19 OF

Z:\21102.02 Johnston Elementary School\21102.02 Johnston - JES Stage III - RI\CIVIL\Grading Plan.dwg

MATCH TO SHEET C4.3

MATCH TO SHEET C4.5

PC: 7+26.42

PT: 6+62.92

N56°40'58"E
617.50'

DECIDUOUS FORESTED SWAMP <1 ACRE

BUFFER ZONE

50' BUFFER FROM FLAGS C34-C39

JURISDICTIONAL AREA

INFILTRATION BASIN

50' DISTANCE TO LOD

APPROX. LOCATION WATER MAIN TO RECREATION FACILITY (ACTUAL LOCATION/ROUTE IS UNKNOWN)

APPROX. LOCATION UNDERGROUND OIL TANK(R)

1 STORY GARAGE

METAL SHED

OBSCURED

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATE': FEB 0 6 2024 FILE #: 23-0209
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
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Scale: 1"=20'
0 10' 20' 40'

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Johnston Elementary School
Johnston Public Schools
AP 47, LOTS 8 & 9
Atwood Ave
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DAVID L. POTTER
No. 8665
01.05.24
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:		
1	12-22-2023	RIDEM COMMENTS

PROJECT NO.:	21102.02
DATE:	OCTOBER 16, 2023
SCALE:	AS NOTED
DESIGNED BY:	KJM
CHECKED BY:	MBA
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:
GRADING PLAN 4

DRAWING NO.:
C4.4
SHEET NO. 20 OF

Alex Klug, Kleinfelder 2023-12-14 09:47:38 -05:00 V:\2021\21102.02\Johnston Elementary School\Civil\Sheets\C4.4 GRADING PLAN 4.dwg

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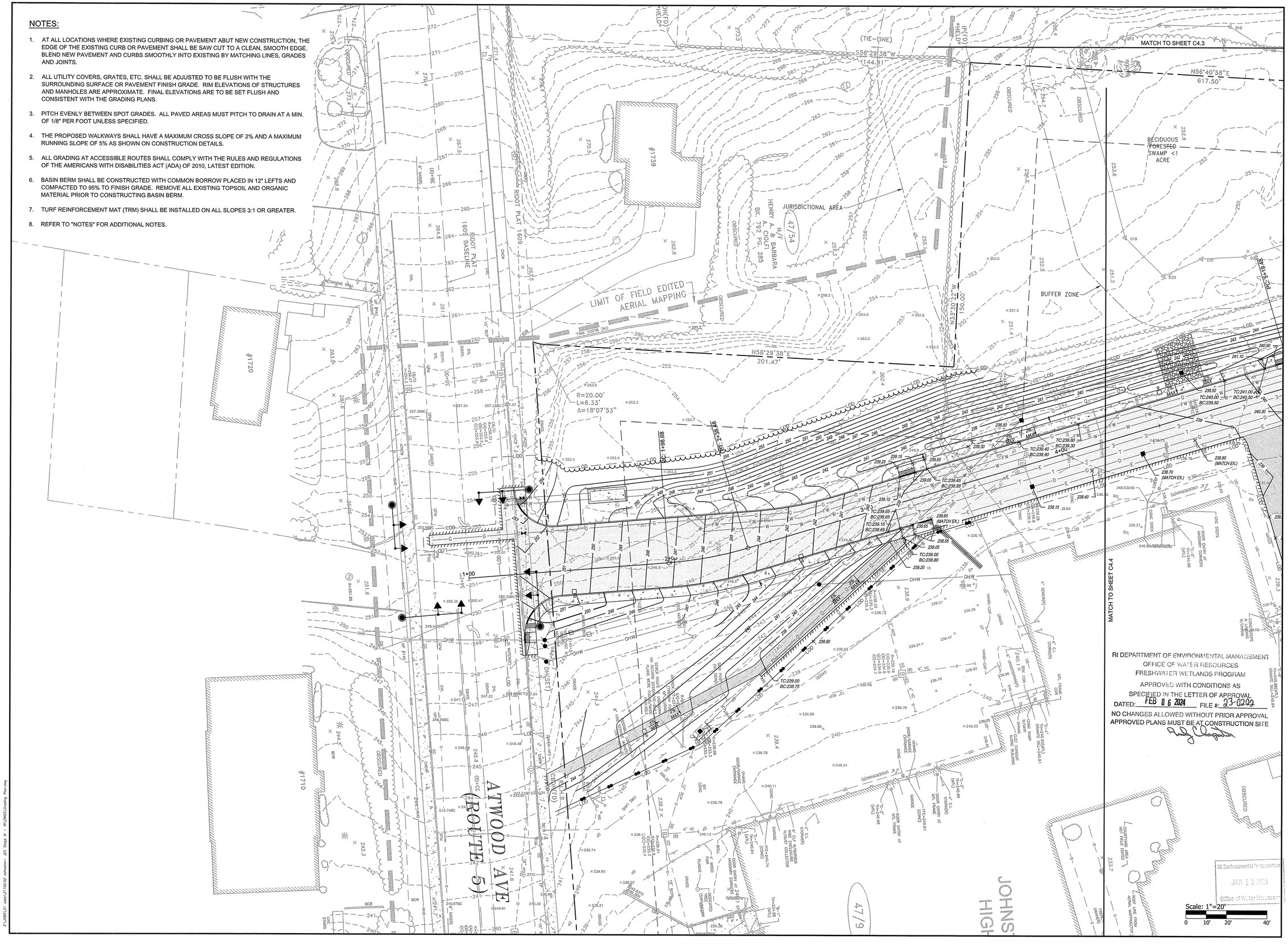
MATCH TO SHEET C4.3
MATCH TO SHEET C4.4
LIMIT OF FIELD EDITED AERIAL MAPPING
JURISDICTIONAL AREA
BUFFER ZONE
DECIDUOUS FORESTED SWAMP <1 ACRE
#1739
#1720
#1710
HENRY A. & BARBARA N. CIOTA BK. 792, PG. 285
47/54
RIDOT PLAT 160
RIDOT PLAT 160 BASELINE
ATWOOD AVE (ROUTE 5)
JOHNSTON HIGH SCHOOL
47/9
(TIE-LINE) S56°29'38"W 144.91'
N56°40'58"E 617.50'
N56°29'38"E 201.47'
N53°30'22"W 150.00'
R=20.00' L=6.33' Δ=18°07'53"
PC=1+98.98
1+98.61
2+36.27
1+00
2+00
3+00
RETAINING WALL
6' CHAIN LINK FENCE
4' WOOD PICKET FENCE
GUARDRAIL
CONC STEPS
DOOR ENTRY AT MASONRY CORNERS
HANDICAP
GRASS
BIT CONC
CONC
GARAGE
DOOR ENTRY AT MTL FRAME
6" CL STORM(R)
4" SEWER(R)
6" WATER(R)
6" VC
SEWER ROUTE TO UNION AVENUE PUMP STATION
NO RECORD OF SEWER PLANS AFTER THIS MANHOLE
PROPOSED LOW PRESSURE SEWER
PROPOSED GRAVITY SEWER
PROPOSED WATER
EXISTING SEWER
EXISTING WATER
EXISTING GAS
EXISTING UTILITY POLE
EXISTING GUY WIRE
EXISTING CATCH BASIN
EXISTING DRAIN MANHOLE
EXISTING SEWER MANHOLE
EXISTING WATER GATE
EXISTING HYDRANT
EXISTING GAS GATE
EXISTING TREE LINE
EXISTING BUILDING
EXISTING CONTOUR
EXISTING SPOT GRADE
PROPOSED CONTOUR
PROPOSED SPOT GRADE
PROPOSED BUILDING
PROPOSED TREE LINE
PROPOSED TREE TO BE REMOVED
PROPOSED TREE TO BE PROTECTED
PROPOSED SHRUB
PROPOSED CATCH BASIN
PROPOSED DRAIN MANHOLE
PROPOSED SEWER MANHOLE
PROPOSED WATER GATE
PROPOSED HYDRANT
PROPOSED GAS GATE
PROPOSED UTILITY POLE
PROPOSED GUY WIRE
PROPOSED LIGHT POLE
PROPOSED SIGN
PROPOSED BOLLARD
PROPOSED CONCRETE
PROPOSED BITUMINOUS CONCRETE
PROPOSED GRASS
PROPOSED RIP-RAP
PROPOSED TRM
PROPOSED SILT FENCE
PROPOSED HAY BALE
PROPOSED CONSTRUCTION FENCE
PROPOSED LIMIT OF DISTURBANCE
PROPOSED LIMIT OF WORK
PROPOSED LIMIT OF CLEARING
PROPOSED LIMIT OF FILL
PROPOSED LIMIT OF CUT
PROPOSED LIMIT OF GRADING
PROPOSED LIMIT OF PAVING
PROPOSED LIMIT OF SEEDING
PROPOSED LIMIT OF SODDING
PROPOSED LIMIT OF MULCHING
PROPOSED LIMIT OF EROSION CONTROL
PROPOSED LIMIT OF SEDIMENTATION CONTROL
PROPOSED LIMIT OF TEMPORARY CONSTRUCTION
PROPOSED LIMIT OF PERMANENT CONSTRUCTION
PROPOSED LIMIT OF TEMPORARY EASEMENT
PROPOSED LIMIT OF PERMANENT EASEMENT
PROPOSED LIMIT OF RIGHT-OF-WAY
PROPOSED LIMIT OF PROPERTY
PROPOSED LIMIT OF ZONING
PROPOSED LIMIT OF SUBDIVISION
PROPOSED LIMIT OF LOT
PROPOSED LIMIT OF BUILDING
PROPOSED LIMIT OF PAVEMENT
PROPOSED LIMIT OF CURB
PROPOSED LIMIT OF SIDEWALK
PROPOSED LIMIT OF CROSSWALK
PROPOSED LIMIT OF PARKING
PROPOSED LIMIT OF LOADING
PROPOSED LIMIT OF ACCESS
PROPOSED LIMIT OF EGRESS
PROPOSED LIMIT OF INGRESS
PROPOSED LIMIT OF CIRCULATION
PROPOSED LIMIT OF TRAFFIC
PROPOSED LIMIT OF PEDESTRIAN
PROPOSED LIMIT OF VEHICULAR
PROPOSED LIMIT OF BICYCLE
PROPOSED LIMIT OF MOTORCYCLE
PROPOSED LIMIT OF TRUCK
PROPOSED LIMIT OF BUS
PROPOSED LIMIT OF EMERGENCY VEHICLE
PROPOSED LIMIT OF SCHOOL BUS
PROPOSED LIMIT OF TRANSIT
PROPOSED LIMIT OF RAIL
PROPOSED LIMIT OF AIR
PROPOSED LIMIT OF WATER
PROPOSED LIMIT OF LAND
PROPOSED LIMIT OF SOIL
PROPOSED LIMIT OF ROCK
PROPOSED LIMIT OF GRAVEL
PROPOSED LIMIT OF SAND
PROPOSED LIMIT OF CLAY
PROPOSED LIMIT OF SILT
PROPOSED LIMIT OF ORGANIC
PROPOSED LIMIT OF PEAT
PROPOSED LIMIT OF MUCK
PROPOSED LIMIT OF TOPSOIL
PROPOSED LIMIT OF SUBSOIL
PROPOSED LIMIT OF BEDROCK
PROPOSED LIMIT OF GROUNDWATER
PROPOSED LIMIT OF SURFACE WATER
PROPOSED LIMIT OF WETLAND
PROPOSED LIMIT OF FLOODPLAIN
PROPOSED LIMIT OF FLOODWAY
PROPOSED LIMIT OF FLOOD FRINGE
PROPOSED LIMIT OF FLOOD HAZARD
PROPOSED LIMIT OF FLOOD ZONE
PROPOSED LIMIT OF FLOOD INSURANCE RATE MAP
PROPOSED LIMIT OF FLOOD INSURANCE STUDY

C501

C502

C503

C504

C505

47/8
N/F
TOWN OF JOHNSTON
BK. 609 PG. 81
16.46 AC

PROPOSED
ELEMENTARY
SCHOOL BUILDING

N53°26'51"E
609.69'

N48°25'31"E
145.75'

S48°25'31"W
111.67'

S36°33'00"E
1307.47'

PC: 37+76.18

PC: 7+23.42

PT: 6+67.92

PT: 10+81.19

N56°29'38"E
201.47'

N56°01'58"E
617.50'

R=20.00'
L=6.33'
Δ=18°07'53"

144.91

150.00'

S33°30'22"W

TOWN OF JOHNSTON
BK. 609 PG. 767
6.59 AC

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: FEB 06 2024 FILE #: 23-0999
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Scale: 1"=60'
0 30' 60' 120'

RI Environmental Management
JAN 10 2024
Office of Water Resources

PARE

OWNER:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

APPLICANT:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

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

Johnston Elementary School
Johnston Public Schools
AP 47, LOTS 8 & 9
Atwood Ave
Johnston, RI

DAVID L. POTTER
No. 8665
01.05.24
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:

1	12-22-2023	RIDEM COMMENTS

PROJECT NO.:	21102.02
DATE:	OCTOBER 16, 2023
SCALE:	AS NOTED
DESIGNED BY:	KJM
CHECKED BY:	MBA
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:
OVERALL DRAINAGE PLAN

DRAWING NO.:
C5.0

SHEET NO. 22 OF ____

Z:\JOBS\21_Johnston\21102.02 Johnston - JES Stage III - RI\DWGS\Drainage Plan.dwg

DRAIN INVERT TABLE

STRUCTURE	RIM (FT)	INV. IN (FT)	INV. OUT (FT)
AD-01	265.75		262.50 SW
AD-02	266.00	260.00 NE 263.00 SW 257.30 NE 263.00 N	257.20 SW
AD-03	258.25		253.00 SE
CB-01	271.90	256.80 NE 256.80 E	256.70 SW
CB-02	255.50	251.00 NW	251.00 S
CB-05	255.70		251.00 S
CB-11	252.00	247.50 SW	247.50 E
CB-12	247.50	243.50 NE	243.30 SW
CB-13 (6' DIA)	249.05	243.90 NW 243.20 NE 244.80 SW	243.20 SE

DRAIN INVERT TABLE

STRUCTURE	RIM (FT)	INV. IN (FT)	INV. OUT (FT)
CB-14	255.30		251.00 NE
CB-15	248.85	244.80 SW	244.80 NE
CB-16	246.65		242.00 N
CB-17	270.50		266.50 NE
CB-18 (6' DIA)	262.50	255.60 SW 259.50 W	255.50 NE
CB-19	274.50		270.50 SE
DIV-03 (6' DIA)	248.70	242.90 NW 244.50 SW	
DIV-04 (6' DIA)	246.90	241.80 S	
DIV-05 (6' DIA)	251.20	247.20 W 248.00 NW	247.20 SE 247.20 E

DRAIN INVERT TABLE

STRUCTURE	RIM (FT)	INV. IN (FT)	INV. OUT (FT)
DMH-01	274.90	256.25 NE	255.70 SE
DMH-02 (5' DIA)	257.50	252.40 NW 254.25 E 252.40 N	252.30 E
DMH-03	257.90	252.20 W 252.80 NE	252.20 SE
DMH-05	271.00	266.15 SW	266.05 NE
DMH-06	263.00	255.10 SW	255.00 E
OCS-02 (6' DIA)	249.50	237.50 NE	237.50 S
OWS-01 (6' DIA)	257.25	253.30 NW	253.05 S

NOTES:

1. ALL CATCH BASINS AND DRAIN MANHOLES SHALL BE 4' DIA. PRECAST CONCRETE UNLESS NOTED OTHERWISE.
2. ALL DRAIN PIPES SHALL BE SMOOTH INTERIOR CORRUGATED HIGH DENSITY POLYETHYLENE UNLESS NOTED OTHERWISE.
3. REINFORCED CONCRETE PIPE (RCP) SHALL BE CLASS III UNLESS NOTED OTHERWISE.
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7. REFER TO ELECTRICAL DRAWINGS FOR INFORMATION ON ELECTRIC AND TEL/DATA DUCT BANKS AND STRUCTURES. ALL ELECTRICAL FACILITIES DISPLAYED FOR REFERENCE ONLY.
8. REPAIR OR REPLACE DAMAGED IRRIGATION FACILITIES TO PRE-CONSTRUCTION CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
9. MODIFICATIONS AND REPAIRS TO THE EXISTING IRRIGATION SYSTEM AND SUPPLY WATER SERVICE SHALL BE DESIGNED, FURNISHED AND INSTALLED BY THE CONTRACTOR. THIS INCLUDES ALL WATER AND ELECTRICAL COMPONENTS INSTALLED PER MANUFACTURERS RECOMMENDATIONS.
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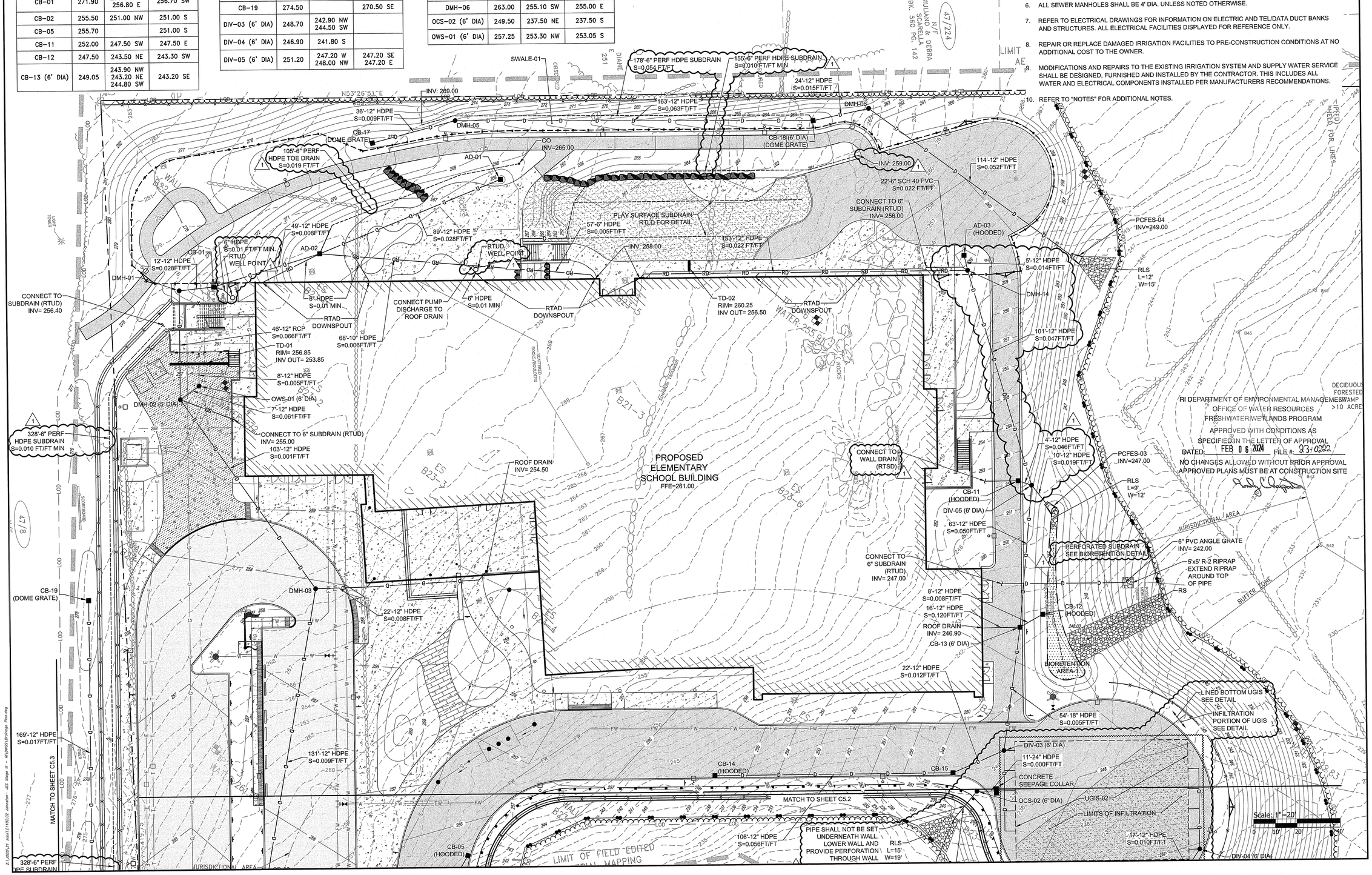

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: FEB 06 2024 FILE #: 93-0000
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

PARE

OWNER:
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APPLICANT:
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DAVID L. POTTER
No. 8665
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REVISIONS:		
1	12-22-2023	RIDEM COMMENTS

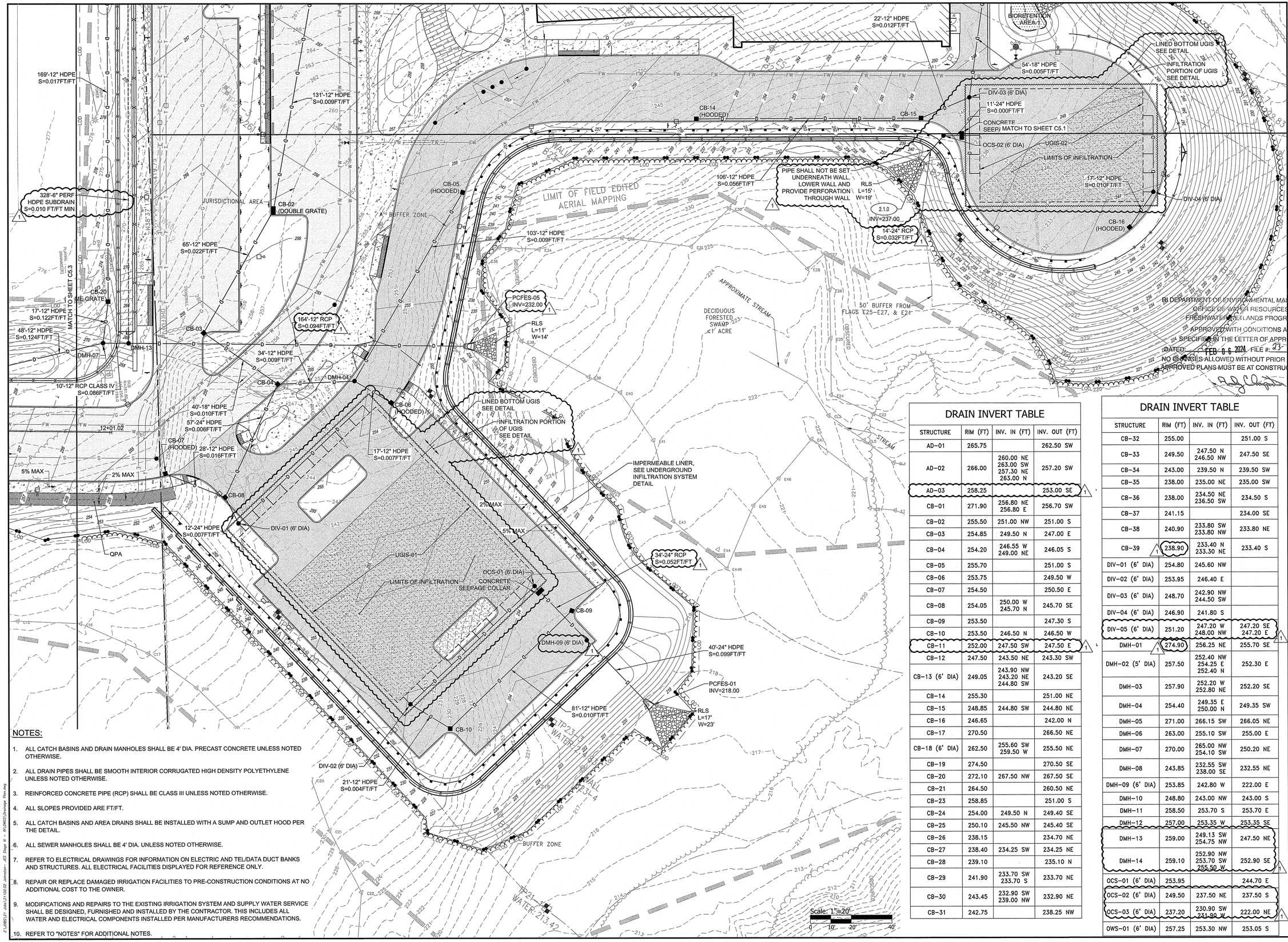
PROJECT NO.:	21102.02
DATE:	OCTOBER 16, 2023
SCALE:	AS NOTED
DESIGNED BY:	KJM
CHECKED BY:	MBA
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:
DRAINAGE PLAN 1

JAN 10 2024
RIDEM WETLANDS PROGRAM

DRAWING NO.:
C5.1
SHEET NO. 23 OF ___

Z:\JOBS\21\02.02 Johnston- JES Stage III - PE\DWGS\Drainage Plan.dwg



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DRAIN INVERT TABLE

STRUCTURE	RIM (FT)	INV. IN (FT)	INV. OUT (FT)
AD-01	265.75		262.50 SW
AD-02	266.00	260.00 NE 263.00 SW 257.30 NE 263.00 N	257.20 SW
AD-03	258.25		253.00 SE
CB-01	271.90	256.80 NE 256.80 E	256.70 SW
CB-02	255.50	251.00 NW	251.00 S
CB-03	254.85	249.50 N	247.00 E
CB-04	254.20	246.55 W 249.00 NE	246.05 S
CB-05	255.70		251.00 S
CB-06	253.75		249.50 W
CB-07	254.50		250.50 E
CB-08	254.05	250.00 W 245.70 N	245.70 SE
CB-09	253.50		247.30 S
CB-10	253.50	246.50 N	246.50 W
CB-11	252.00	247.50 SW	247.50 E
CB-12	247.50	243.50 NE	243.30 SW
CB-13 (6' DIA)	249.05	243.90 NW 243.20 NE 244.80 SW	243.20 SE
CB-14	255.30		251.00 NE
CB-15	248.85	244.80 SW	244.80 NE
CB-16	246.65		242.00 N
CB-17	270.50		266.50 NE
CB-18 (6' DIA)	262.50	255.60 SW 259.50 W	255.50 NE
CB-19	274.50		270.50 SE
CB-20	272.10	267.50 NW	267.50 SE
CB-21	264.50		260.50 NE
CB-23	258.85		251.00 S
CB-24	254.00	249.50 N	249.40 SE
CB-25	250.10	245.50 NW	245.40 SE
CB-26	238.15		234.70 NE
CB-27	238.40	234.25 SW	234.25 NE
CB-28	239.10		235.10 N
CB-29	241.90	233.70 SW 233.70 S	233.70 NE
CB-30	243.45	232.90 SW 239.00 NW	232.90 NE
CB-31	242.75		238.25 NW

DRAIN INVERT TABLE

STRUCTURE	RIM (FT)	INV. IN (FT)	INV. OUT (FT)
CB-32	255.00		251.00 S
CB-33	249.50	247.50 N 246.50 NW	247.50 SE
CB-34	243.00	239.50 N	239.50 SW
CB-35	238.00	235.00 NE	235.00 SW
CB-36	238.00	234.50 NE 236.50 SW	234.50 S
CB-37	241.15		234.00 SE
CB-38	240.90	233.80 SW 233.80 NW	233.80 NE
CB-39	238.90	233.40 N 233.30 NE	233.40 S
DIV-01 (6' DIA)	254.80	245.60 NW	
DIV-02 (6' DIA)	253.95	246.40 E	
DIV-03 (6' DIA)	248.70	242.90 NW 244.50 SW	
DIV-04 (6' DIA)	246.90	241.80 S	
DIV-05 (6' DIA)	251.20	247.20 W 248.00 NW	247.20 SE 247.20 E
DMH-01	274.90	256.25 NE	255.70 SE
DMH-02 (5' DIA)	257.50	252.40 NW 254.25 E 252.40 N	252.30 E
DMH-03	257.90	252.20 W 252.80 NE	252.20 SE
DMH-04	254.40	249.35 E 250.00 N	249.35 SW
DMH-05	271.00	266.15 SW	266.05 NE
DMH-06	263.00	255.10 SW	255.00 E
DMH-07	270.00	265.00 NW 254.10 SW	250.20 NE
DMH-08	243.85	232.55 SW 238.00 SE	232.55 NE
DMH-09 (6' DIA)	253.85	242.80 W	222.00 E
DMH-10	248.80	243.00 NW	243.00 S
DMH-11	258.50	253.70 S	253.70 E
DMH-12	257.00	253.35 W	253.35 SE
DMH-13	259.00	249.13 SW 254.75 NW	247.50 NE
DMH-14	259.10	252.90 NW 253.70 SW 255.50 W	252.90 SE
OCS-01 (6' DIA)	253.95		244.70 E
OCS-02 (6' DIA)	249.50	237.50 NE	237.50 S
OCS-03 (6' DIA)	237.20	230.90 SW 231.90 W	222.00 NE
OWS-01 (6' DIA)	257.25	253.30 NW	253.05 S

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: FEB 06 2024 FILE #: 23-0399
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

PARE

OWNER:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

APPLICANT:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

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

Johnston Elementary School
Johnston Public Schools
AP 47, LOTS 8 & 9
Atwood Ave
Johnston, RI

DAVID L. POTTER
No. 8665
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
21.05.24

REVISIONS:

1	12-22-2023	RIDEM COMMENTS

PROJECT NO.: 21102.02
DATE: OCTOBER 16, 2023
SCALE: AS NOTED
DESIGNED BY: KJM
CHECKED BY: MBA
DRAWN BY: AKL
APPROVED BY: DLP

DRAWING TITLE:
DRAINAGE PLAN 2

RI Historical Preservation & Heritage Commission
JAN 10 2024
Approved

DRAWING NO.:
C5.2

SHEET NO. 24 OF

Z:\JOBS\21 Jobs\21102.02 Johnston - JES Step # - 80\PDWG\Drainage Plan.dwg

DRAIN INVERT TABLE

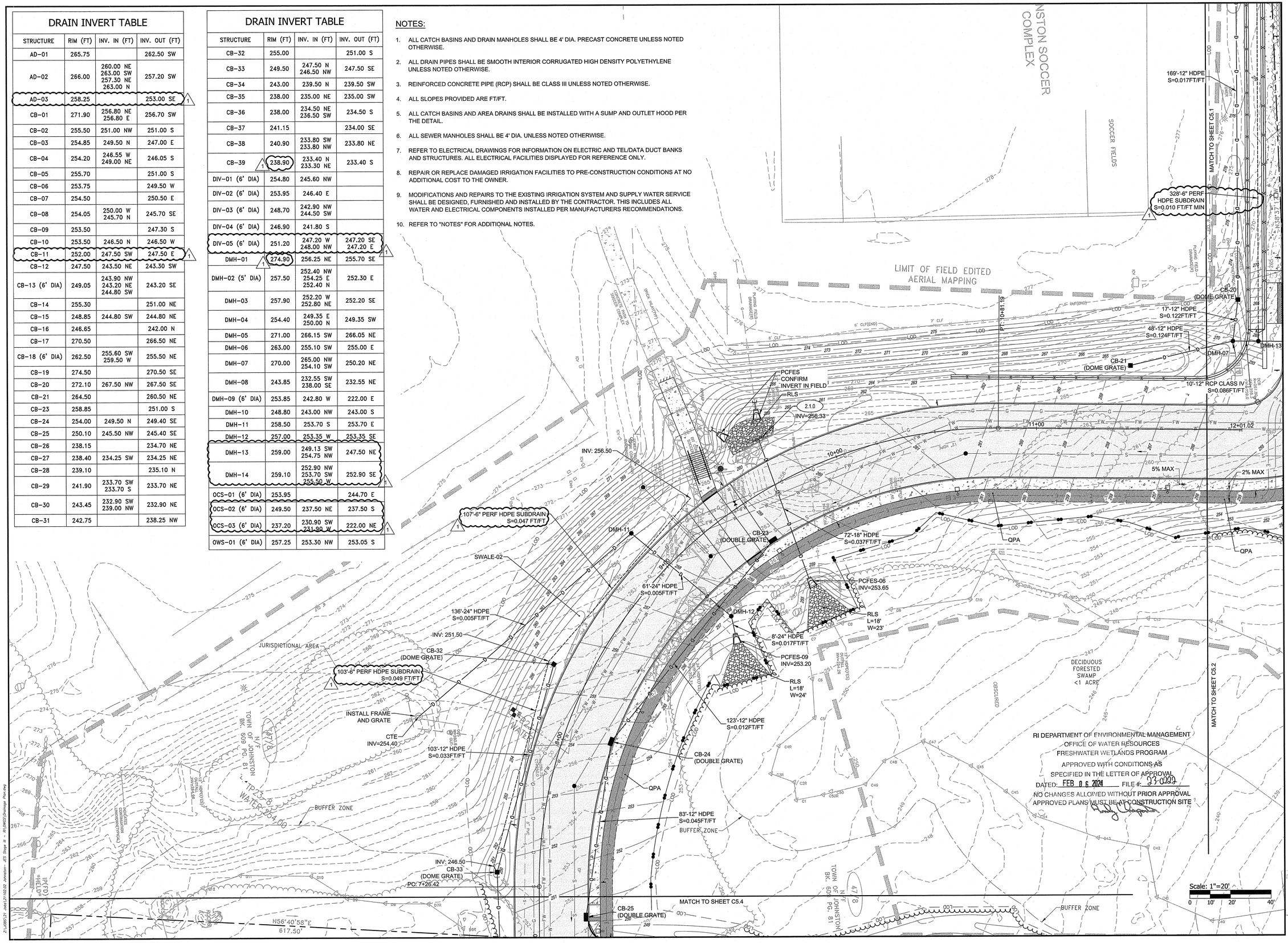
STRUCTURE	RIM (FT)	INV. IN (FT)	INV. OUT (FT)
AD-01	265.75		262.50 SW
AD-02	266.00	260.00 NE 263.00 SW 257.30 NE 263.00 N	257.20 SW
AD-03	258.25		253.00 SE
CB-01	271.90	256.80 NE 256.80 E	256.70 SW
CB-02	255.50	251.00 NW	251.00 S
CB-03	254.85	249.50 N	247.00 E
CB-04	254.20	246.55 W 249.00 NE	246.05 S
CB-05	255.70		251.00 S
CB-06	253.75		249.50 W
CB-07	254.50		250.50 E
CB-08	254.05	250.00 W 245.70 N	245.70 SE
CB-09	253.50		247.30 S
CB-10	253.50	246.50 N	246.50 W
CB-11	252.00	247.50 SW	247.50 E
CB-12	247.50	243.50 NE	243.30 SW
CB-13 (6' DIA)	249.05	243.90 NW 243.20 NE 244.80 SW	243.20 SE
CB-14	255.30		251.00 NE
CB-15	248.85	244.80 SW	244.80 NE
CB-16	246.65		242.00 N
CB-17	270.50		266.50 NE
CB-18 (6' DIA)	262.50	255.60 SW 259.50 W	255.50 NE
CB-19	274.50		270.50 SE
CB-20	272.10	267.50 NW	267.50 SE
CB-21	264.50		260.50 NE
CB-23	258.85		251.00 S
CB-24	254.00	249.50 N	249.40 SE
CB-25	250.10	245.50 NW	245.40 SE
CB-26	238.15		234.70 NE
CB-27	238.40	234.25 SW	234.25 NE
CB-28	239.10		235.10 N
CB-29	241.90	233.70 SW 233.70 S	233.70 NE
CB-30	243.45	232.90 SW 239.00 NW	232.90 NE
CB-31	242.75		238.25 NW

DRAIN INVERT TABLE

STRUCTURE	RIM (FT)	INV. IN (FT)	INV. OUT (FT)
CB-32	255.00		251.00 S
CB-33	249.50	247.50 N 246.50 NW	247.50 SE
CB-34	243.00	239.50 N	239.50 SW
CB-35	238.00	235.00 NE	235.00 SW
CB-36	238.00	234.50 NE 236.50 SW	234.50 S
CB-37	241.15		234.00 SE
CB-38	240.90	233.80 SW 233.80 NW	233.80 NE
CB-39	238.90	233.40 N 233.30 NE	233.40 S
DIV-01 (6' DIA)	254.80	245.60 NW	
DIV-02 (6' DIA)	253.95	246.40 E	
DIV-03 (6' DIA)	248.70	242.90 NW 244.50 SW	
DIV-04 (6' DIA)	246.90	241.80 S	
DIV-05 (6' DIA)	251.20	247.20 W 248.00 NW	247.20 SE 247.20 E
DMH-01	274.90	256.25 NE	255.70 SE
DMH-02 (5' DIA)	257.50	252.40 NW 254.25 E 252.40 N	252.30 E
DMH-03	257.90	252.20 W 252.80 NE	252.20 SE
DMH-04	254.40	249.35 E 250.00 N	249.35 SW
DMH-05	271.00	266.15 SW	266.05 NE
DMH-06	263.00	255.10 SW	255.00 E
DMH-07	270.00	265.00 NW 254.10 SW	250.20 NE
DMH-08	243.85	232.55 SW 238.00 SE	232.55 NE
DMH-09 (6' DIA)	253.85	242.80 W	222.00 E
DMH-10	248.80	243.00 NW	243.00 S
DMH-11	258.50	253.70 S	253.70 E
DMH-12	257.00	253.35 W	253.35 SE
DMH-13	259.00	249.13 SW 254.75 NW	247.50 NE
DMH-14	259.10	252.90 NW 253.70 SW 255.50 W	252.90 SE
OCS-01 (6' DIA)	253.95		244.70 E
OCS-02 (6' DIA)	249.50	237.50 NE	237.50 S
OCS-03 (6' DIA)	237.20	230.90 SW 231.90 W	222.00 NE
OWS-01 (6' DIA)	257.25	253.30 NW	253.05 S

NOTES:

1. ALL CATCH BASINS AND DRAIN MANHOLES SHALL BE 4' DIA. PRECAST CONCRETE UNLESS NOTED OTHERWISE.
2. ALL DRAIN PIPES SHALL BE SMOOTH INTERIOR CORRUGATED HIGH DENSITY POLYETHYLENE UNLESS NOTED OTHERWISE.
3. REINFORCED CONCRETE PIPE (RCP) SHALL BE CLASS III UNLESS NOTED OTHERWISE.
4. ALL SLOPES PROVIDED ARE FT/FT.
5. ALL CATCH BASINS AND AREA DRAINS SHALL BE INSTALLED WITH A SUMP AND OUTLET HOOD PER THE DETAIL.
6. ALL SEWER MANHOLES SHALL BE 4' DIA. UNLESS NOTED OTHERWISE.
7. REFER TO ELECTRICAL DRAWINGS FOR INFORMATION ON ELECTRIC AND TEL/DATA DUCT BANKS AND STRUCTURES. ALL ELECTRICAL FACILITIES DISPLAYED FOR REFERENCE ONLY.
8. REPAIR OR REPLACE DAMAGED IRRIGATION FACILITIES TO PRE-CONSTRUCTION CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
9. MODIFICATIONS AND REPAIRS TO THE EXISTING IRRIGATION SYSTEM AND SUPPLY WATER SERVICE SHALL BE DESIGNED, FURNISHED AND INSTALLED BY THE CONTRACTOR. THIS INCLUDES ALL WATER AND ELECTRICAL COMPONENTS INSTALLED PER MANUFACTURERS RECOMMENDATIONS.
10. REFER TO "NOTES" FOR ADDITIONAL NOTES.



PARE

OWNER:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

APPLICANT:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

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

Johnston Elementary School
Johnston Public Schools
AP 47, LOTS 8 & 9
Atwood Ave
Johnston, RI

DAVID L. POTTER
No. 8665
01.05.24
REGISTERED PROFESSIONAL ENGINEER
CIVIL

REVISIONS:		
1	12-22-2023	RIDEM COMMENTS

PROJECT NO.:	21102.02
DATE:	OCTOBER 16, 2023
SCALE:	AS NOTED
DESIGNED BY:	KJM
CHECKED BY:	MBA
DRAWN BY:	AKL
APPROVED BY:	DLP

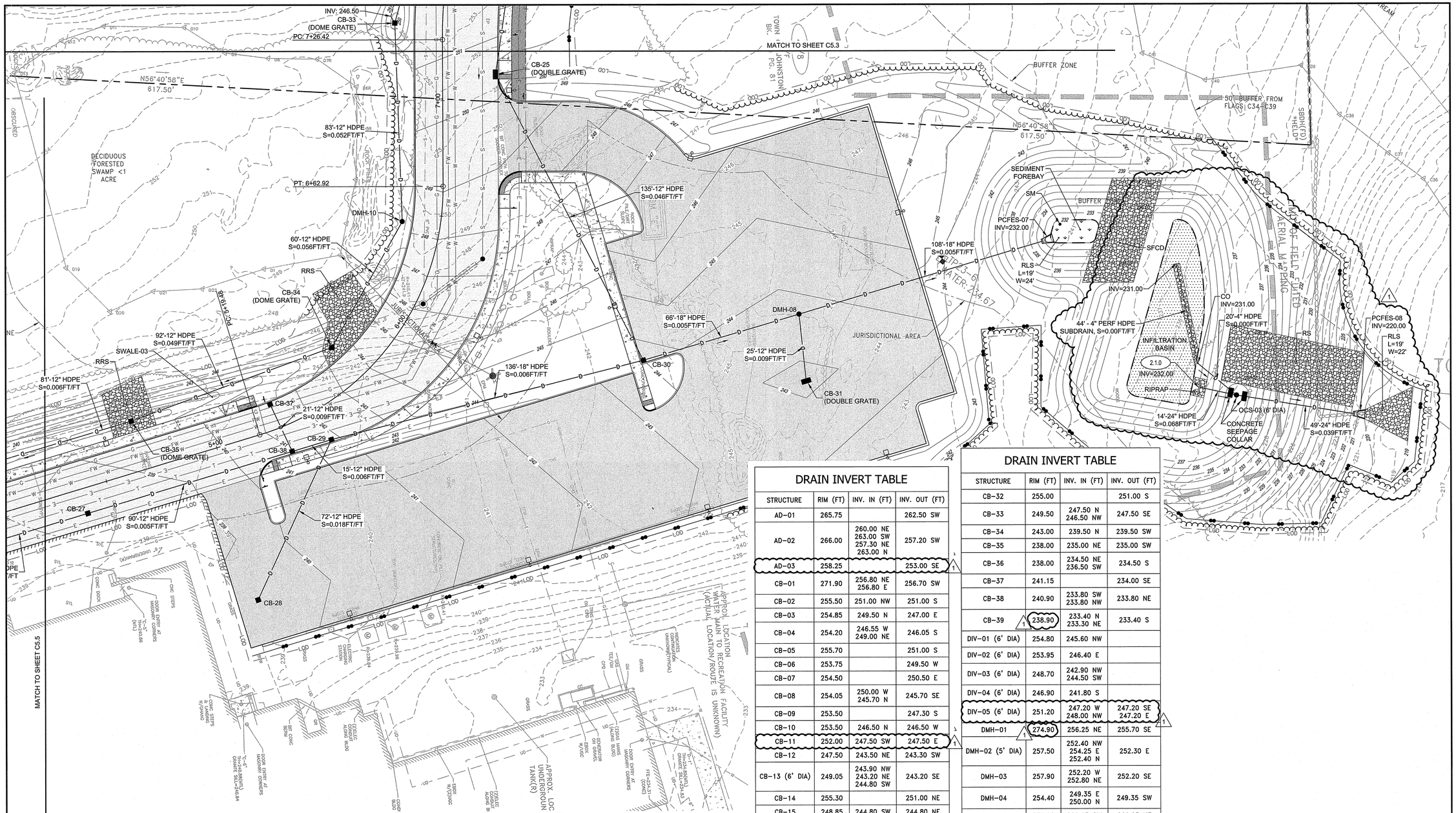
DRAWING TITLE:
DRAINAGE PLAN 3

JAN 10 2024

DRAWING NO.
C5.3

SHEET NO. 25 OF

Z:\JOBS\21102.02 Johnston Elementary School\Stage III - RI\DWG\Drainage Plan.dwg



NOTES:

1. ALL CATCH BASINS AND DRAIN MANHOLES SHALL BE 4' DIA. PRECAST CONCRETE UNLESS NOTED OTHERWISE.
2. ALL DRAIN PIPES SHALL BE SMOOTH INTERIOR CORRUGATED HIGH DENSITY POLYETHYLENE UNLESS NOTED OTHERWISE.
3. REINFORCED CONCRETE PIPE (RCP) SHALL BE CLASS III UNLESS NOTED OTHERWISE.
4. ALL SLOPES PROVIDED ARE FT/FT.
5. ALL CATCH BASINS AND AREA DRAINS SHALL BE INSTALLED WITH A SUMP AND OUTLET HOOD PER THE DETAIL.
6. ALL SEWER MANHOLES SHALL BE 4' DIA. UNLESS NOTED OTHERWISE.
7. REFER TO ELECTRICAL DRAWINGS FOR INFORMATION ON ELECTRIC AND TEL/DATA DUCT BANKS AND STRUCTURES. ALL ELECTRICAL FACILITIES DISPLAYED FOR REFERENCE ONLY.
8. REPAIR OR REPLACE DAMAGED IRRIGATION FACILITIES TO PRE-CONSTRUCTION CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
9. MODIFICATIONS AND REPAIRS TO THE EXISTING IRRIGATION SYSTEM AND SUPPLY WATER SERVICE SHALL BE DESIGNED, FURNISHED AND INSTALLED BY THE CONTRACTOR. THIS INCLUDES ALL WATER AND ELECTRICAL COMPONENTS INSTALLED PER MANUFACTURERS RECOMMENDATIONS.
10. REFER TO "NOTES" FOR ADDITIONAL NOTES.

DRAIN INVERT TABLE

STRUCTURE	RIM (FT)	INV. IN (FT)	INV. OUT (FT)
AD-01	265.75		262.50 SW
AD-02	266.00	260.00 NE 263.00 SW 257.30 NE 263.00 N	257.20 SW
AD-03	258.25		253.00 SE (1)
CB-01	271.90	256.80 NE 256.80 E	256.70 SW
CB-02	255.50	251.00 NW	251.00 S
CB-03	254.85	249.50 N	247.00 E
CB-04	254.20	246.55 W 249.00 NE	246.05 S
CB-05	255.70		251.00 S
CB-06	253.75		249.50 W
CB-07	254.50		250.50 E
CB-08	254.05	250.00 W 245.70 N	245.70 SE
CB-09	253.50		247.30 S
CB-10	253.50	246.50 N	246.50 W
CB-11	252.00	247.50 SW	247.50 E (1)
CB-12	247.50	243.50 NE	243.30 SW
CB-13 (6' DIA)	249.05	243.90 NW 243.20 NE 244.80 SW	243.20 SE
CB-14	255.30		251.00 NE
CB-15	248.85	244.80 SW	244.80 NE
CB-16	246.65		242.00 N
CB-17	270.50		266.50 NE
CB-18 (6' DIA)	262.50	255.60 SW 259.50 W	255.50 NE
CB-19	274.50		270.50 SE
CB-20	272.10	267.50 NW	267.50 SE
CB-21	264.50		260.50 NE
CB-23	258.85		251.00 S
CB-24	254.00	249.50 N	249.40 SE
CB-25	250.10	245.50 NW	245.40 SE
CB-26	238.15		234.70 NE
CB-27	238.40	234.25 SW	234.25 NE
CB-28	239.10		235.10 N
CB-29	241.90	233.70 SW 233.70 S	233.70 NE
CB-30	243.45	232.90 SW 239.00 NW	232.90 NE
CB-31	242.75		238.25 NW

DRAIN INVERT TABLE

STRUCTURE	RIM (FT)	INV. IN (FT)	INV. OUT (FT)
CB-32	255.00		251.00 S
CB-33	249.50	247.50 N 246.50 NW	247.50 SE
CB-34	243.00	239.50 N	239.50 SW
CB-35	238.00	235.00 NE	235.00 SW
CB-36	238.00	234.50 NE 236.50 SW	234.50 S
CB-37	241.15		234.00 SE
CB-38	240.90	233.80 SW 233.80 NW	233.80 NE
CB-39 (1)	238.90	233.40 N 233.30 NE	233.40 S
DIV-01 (6' DIA)	254.80	245.60 NW	
DIV-02 (6' DIA)	253.95	246.40 E	
DIV-03 (6' DIA)	248.70	242.90 NW 244.50 SW	
DIV-04 (6' DIA)	246.90	241.80 S	
DIV-05 (6' DIA)	251.20	247.20 W 248.00 NW	247.20 SE 247.20 E (1)
DMH-01 (1)	274.90	256.25 NE	255.70 SE
DMH-02 (5' DIA)	257.50	252.40 NW 254.25 E 252.40 N	252.30 E
DMH-03	257.90	252.20 W 252.80 NE	252.20 SE
DMH-04	254.40	249.35 E 250.00 N	249.35 SW
DMH-05	271.00	266.15 SW	266.05 NE
DMH-06	263.00	255.10 SW	255.00 E
DMH-07	270.00	265.00 NW 254.10 SW	250.20 NE
DMH-08	243.85	232.55 SW 238.00 SE	232.55 NE
DMH-09 (6' DIA)	253.85	242.80 W	222.00 E
DMH-10	248.80	243.00 NW	243.00 S
DMH-11	258.50	253.70 S	253.70 E
DMH-12	257.00	253.35 W	253.35 SE
DMH-13	259.00	249.13 SW 254.75 NW	247.50 NE
DMH-14	259.10	252.90 NW 253.70 SW 255.50 W	252.90 SE (1)
OCS-01 (6' DIA)	253.95		244.70 E
OCS-02 (6' DIA)	249.50	237.50 NE	237.50 S
OCS-03 (6' DIA)	237.20	230.90 SW 231.90 W	222.00 NE (1)
OWS-01 (6' DIA)	257.25	253.30 NW	253.05 S

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: FEB 06 2024 FILE #: 23-0020
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Scale: 1"=20'
0 10' 20' 40'

PARE

OWNER:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

APPLICANT:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

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

Johnston Elementary School
Johnston Public Schools
AP 47, LOTS 8 & 9
Atwood Ave
Johnston, RI

DAVID L. POTTER
No. 8665
01.05.24
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:

1	12-22-2023	RIDEM COMMENTS

PROJECT NO.:	21102.02
DATE:	OCTOBER 16, 2023
SCALE:	AS NOTED
DESIGNED BY:	KJM
CHECKED BY:	MBA
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:
DRAINAGE PLAN 4

RI Department of Environmental Management
JAN 10 2024
Office of Water Resources

DRAWING NO.
C5.4

SHEET NO. 26 OF ___

Plotted: Jan 10, 2024 - 8:29am
Drawing Path: J:\Projects\21102.02 Johnston Public Schools\Civil\Drawings\21102.02 Johnston Public Schools.dwg

DRAIN INVERT TABLE

STRUCTURE	RIM (FT)	INV. IN (FT)	INV. OUT (FT)
AD-01	265.75		262.50 SW
AD-02	266.00	260.00 NE 263.00 SW 257.30 NE 263.00 N	257.20 SW
AD-03	258.25		253.00 SE
CB-01	271.90	256.80 NE 256.80 E	256.70 SW
CB-02	255.50	251.00 NW	251.00 S
CB-03	254.85	249.50 N	247.00 E
CB-04	254.20	246.55 W 249.00 NE	246.05 S
CB-05	255.70		251.00 S
CB-06	253.75		249.50 W
CB-07	254.50		250.50 E
CB-08	254.05	250.00 W 245.70 N	245.70 SE
CB-09	253.50		247.30 S
CB-10	253.50	246.50 N	246.50 W
CB-11	252.00	247.50 SW	247.50 E
CB-12	247.50	243.50 NE	243.30 SW
CB-13 (6' DIA)	249.05	243.90 NW 243.20 NE 244.80 SW	243.20 SE
CB-14	255.30		251.00 NE
CB-15	248.85	244.80 SW	244.80 NE
CB-16	246.65		242.00 N
CB-17	270.50		266.50 NE
CB-18 (6' DIA)	262.50	255.60 SW 259.50 W	255.50 NE
CB-19	274.50		270.50 SE
CB-20	272.10	267.50 NW	267.50 SE
CB-21	264.50		260.50 NE
CB-23	258.85		251.00 S
CB-24	254.00	249.50 N	249.40 SE
CB-25	250.10	245.50 NW	245.40 SE
CB-26	238.15		234.70 NE
CB-27	238.40	234.25 SW	234.25 NE
CB-28	239.10		235.10 N
CB-29	241.90	233.70 SW 233.70 S	233.70 NE
CB-30	243.45	232.90 SW 239.00 NW	232.90 NE
CB-31	242.75		238.25 NW

DRAIN INVERT TABLE

STRUCTURE	RIM (FT)	INV. IN (FT)	INV. OUT (FT)
CB-32	255.00		251.00 S
CB-33	249.50	247.50 N 246.50 NW	247.50 SE
CB-34	243.00	239.50 N	239.50 SW
CB-35	238.00	235.00 NE	235.00 SW
CB-36	238.00	234.50 NE 236.50 SW	234.50 S
CB-37	241.15		234.00 SE
CB-38	240.90	233.80 SW 233.80 NW	233.80 NE
CB-39	238.90	233.40 N 233.30 NE	233.40 S
DIV-01 (6' DIA)	254.80	245.60 NW	
DIV-02 (6' DIA)	253.95	246.40 E	
DIV-03 (6' DIA)	248.70	242.90 NW 244.50 SW	
DIV-04 (6' DIA)	246.90	241.80 S	
DIV-05 (6' DIA)	251.20	247.20 W 248.00 NW	247.20 SE 247.20 E
DMH-01	274.90	256.25 NE	255.70 SE
DMH-02 (5' DIA)	257.50	252.40 NW 254.25 E 252.40 N	252.30 E
DMH-03	257.90	252.20 W 252.80 NE	252.20 SE
DMH-04	254.40	249.35 E 250.00 N	249.35 SW
DMH-05	271.00	266.15 SW	266.05 NE
DMH-06	263.00	255.10 SW	255.00 E
DMH-07	270.00	265.00 NW 254.10 SW	250.20 NE
DMH-08	243.85	232.55 SW 238.00 SE	232.55 NE
DMH-09 (6' DIA)	253.85	242.80 W	222.00 E
DMH-10	248.80	243.00 NW	243.00 S
DMH-11	258.50	253.70 S	253.70 E
DMH-12	257.00	253.35 W	253.35 SE
DMH-13	259.00	249.13 SW 254.75 NW	247.50 NE
DMH-14	259.10	252.90 NW 253.70 SW 255.50 W	252.90 SE
OCS-01 (6' DIA)	253.95		244.70 E
OCS-02 (6' DIA)	249.50	237.50 NE	237.50 S
OCS-03 (6' DIA)	237.20	230.90 SW 231.90 W	222.00 NE
OWS-01 (6' DIA)	257.25	253.30 NW	253.05 S

NOTES:

1. ALL CATCH BASINS AND DRAIN MANHOLES SHALL BE 4' DIA. PRECAST CONCRETE UNLESS NOTED OTHERWISE.
2. ALL DRAIN PIPES SHALL BE SMOOTH INTERIOR CORRUGATED HIGH DENSITY POLYETHYLENE UNLESS NOTED OTHERWISE.
3. REINFORCED CONCRETE PIPE (RCP) SHALL BE CLASS III UNLESS NOTED OTHERWISE.
4. ALL SLOPES PROVIDED ARE FT/FT.
5. ALL CATCH BASINS AND AREA DRAINS SHALL BE INSTALLED WITH A SUMP AND OUTLET HOOD PER THE DETAIL.
6. ALL SEWER MANHOLES SHALL BE 4' DIA. UNLESS NOTED OTHERWISE.
7. REFER TO ELECTRICAL DRAWINGS FOR INFORMATION ON ELECTRIC AND TEL/DATA DUCT BANKS AND STRUCTURES. ALL ELECTRICAL FACILITIES DISPLAYED FOR REFERENCE ONLY.
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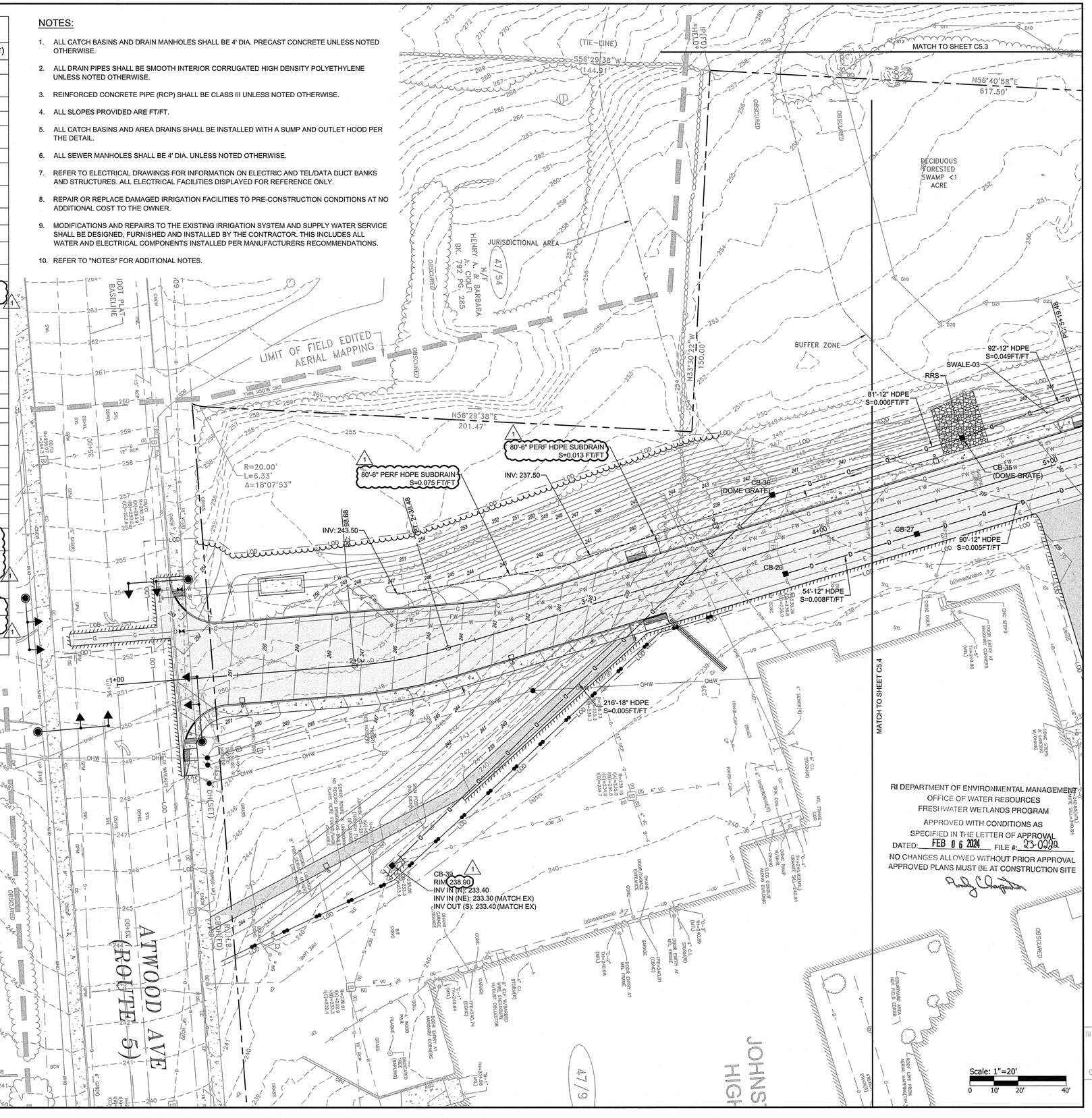
10. REFER TO "NOTES" FOR ADDITIONAL NOTES.



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: FEB 06 2024 FILE #: 23-0228
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

PARE

OWNER:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

APPLICANT:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

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

Johnston Elementary School
Johnston Public Schools
AP 47, LOTS 8 & 9
Atwood Ave
Johnston, RI

DAVID L. POTTER
No. 8665
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
24.05.24

REVISIONS:			
1	12-22-2023	RIDEM COMMENTS	

PROJECT NO.:	21102.02
DATE:	OCTOBER 16, 2023
SCALE:	AS NOTED
DESIGNED BY:	KJM
CHECKED BY:	MBA
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:
DRAINAGE PLAN 5

JAN 10 2024

DRAWING NO.
C5.5

SHEET NO. 27 OF ___

Z:\PROJ\21102.02 Johnston - JES Reno #1 - RI\Plan Sets\Drainage Plan.dwg

C601

C602

C603

C604

C605

PROPOSED
ELEMENTARY
SCHOOL BUILDING

47/8
N/F
TOWN OF JOHNSTON
BK. 609 PG. 81
16.46 AC

47/9
N/F
TOWN OF JOHNSTON
BK. 109 PG. 767
43.59 AC

N53°26'51"E
609.69'
N48°25'31"E
145.75'
S48°25'31"W
111.67'
S36°33'00"E
1307.47'
N53°26'51"E
317.62'
S36°33'00"E
1307.47'
N56°29'58"E
317.90'
N56°29'38"E
201.47'
N33°30'22"W
150.00'
144.91'
R=20.00'
L=6.33'
Δ=18°07'53"
PC: 7+26.42
PT: 6+62.92
PT: 10+81.19
PC: 37+76.18
617.30'

ATTWOOD AVE.
(ROUTE 6)

Scale: 1"=60'
0 30' 60' 120'

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: FEB 06 2024 FILE #: 23-0599
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

RI Environmental Management
JAN 0 5 2024
Office of Water Resources

PARE

OWNER:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

APPLICANT:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

SCALE ADJUSTMENT GUIDE
0" 1"
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Johnston Elementary School
Johnston Public Schools
AP 47, LOTS 8 & 9
Atwood Ave
Johnston, RI

DAVID L. POTTER
No. 8665
01.05.24
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:		
1	12-22-2023	RIDEM COMMENTS

PROJECT NO.:	21102.02
DATE:	OCTOBER 16, 2023
SCALE:	AS NOTED
DESIGNED BY:	KJM
CHECKED BY:	MBA
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:
OVERALL UTILITY PLAN

DRAWING NO.:
C6.0

SHEET NO. 28 OF ____

Z:\JOBS\21 Jobs\21102.02 Johnston – JES Stage III – RI\DWGS\Utility Plan.dwg

NOTES:

1. ALL CATCH BASINS AND DRAIN MANHOLES SHALL BE 4' DIA. PRECAST CONCRETE UNLESS NOTED OTHERWISE.
2. ALL DRAIN PIPES SHALL BE SMOOTH INTERIOR CORRUGATED HIGH DENSITY POLYETHYLENE UNLESS NOTED OTHERWISE.
3. REINFORCED CONCRETE PIPE (RCP) SHALL BE CLASS III UNLESS NOTED OTHERWISE.
4. ALL SLOPES PROVIDED ARE FT/FT.
5. ALL CATCH BASINS AND AREA DRAINS SHALL BE INSTALLED WITH A SUMP AND OUTLET HOOD PER THE DETAIL.
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10. REFER TO "NOTES" FOR ADDITIONAL NOTES.

SEWER INVERT TABLE

STRUCTURE	RIM (FT)	INV. IN (FT)	INV. OUT (FT)
SMH-01	260.00	255.00 W 255.00 NE	254.80 S
SMH-02	261.35	253.00 NW	253.20 SW
SMH-03	256.50	252.40 N 252.50 N	252.40 S
SMH-04	254.95	250.95 N	250.85 S
SMH-05	254.70	249.65 N	249.55 SW
SMH-06	261.20	247.75 NE	247.65 SW
SMH-07	258.40	246.10 NE 247.00 W	246.00 S
SMH-08	253.15	244.50 N	244.40 SE
SMH-09	247.25	242.75 NW	242.65 S
SMH-10	264.30	252.50 NW	251.50 E
SMH-11	246.20	242.00 N	241.90 SW

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: FEB 06 2024 FILE #: 23-0220
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

PROPOSED ELEMENTARY SCHOOL BUILDING
FFE=261.00

Scale: 1"=20'

PARE

OWNER:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

APPLICANT:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

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

Johnston Elementary School
Johnston Public Schools
AP 47, LOTS 8 & 9
Atwood Ave
Johnston, RI

DAVID L. POTTER
No. 8665
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
01.05.24

REVISIONS:		
1	12-22-2023	RIDEM COMMENTS

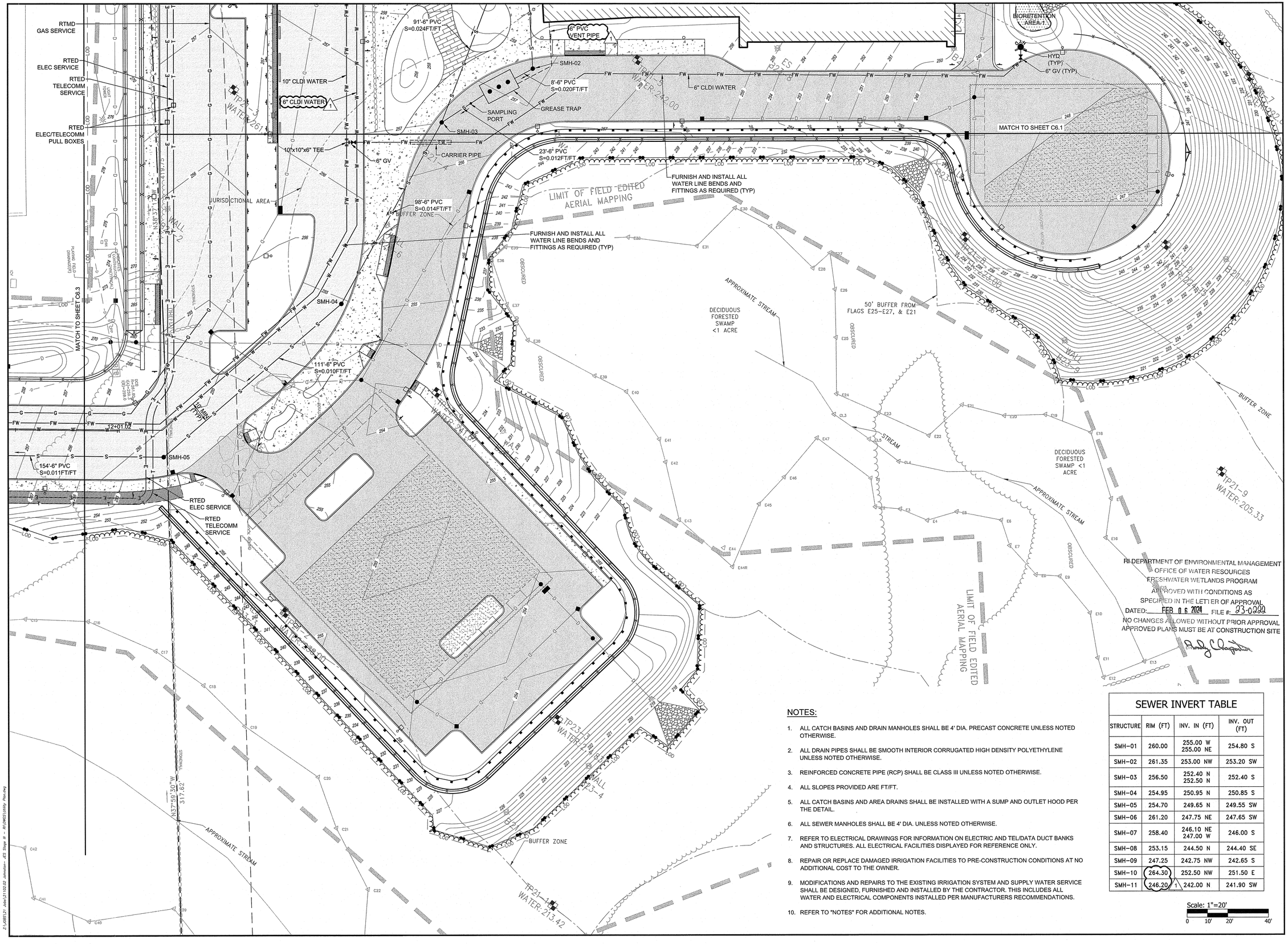
PROJECT NO.:	21102.02
DATE:	OCTOBER 16, 2023
SCALE:	AS NOTED
DESIGNED BY:	KJM
CHECKED BY:	MBA
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:
UTILITY PLAN 1

RI Environmental Management
JAN 10 2024

DRAWING NO.:
C6.1

SHEET NO. 29 OF



NOTES:

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SMH-07	258.40	246.10 NE 247.00 W	246.00 S
SMH-08	253.15	244.50 N	244.40 SE
SMH-09	247.25	242.75 NW	242.65 S
SMH-10	264.30	252.50 NW	251.50 E
SMH-11	246.20	242.00 N	241.90 SW

Scale: 1"=20'
0 10' 20' 40'

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: FEB 06 2024 FILE #: 23-0222
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

PARE

OWNER:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

APPLICANT:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

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

Johnston Elementary School
Johnston Public Schools
AP 47, LOTS 8 & 9
Atwood Ave
Johnston, RI

DAVID L. POTTER
No. 8665
01.05.24
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:		
1	12-22-2023	RIDEM COMMENTS

PROJECT NO.:	21102.02
DATE:	OCTOBER 16, 2023
SCALE:	AS NOTED
DESIGNED BY:	KJM
CHECKED BY:	MBA
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:
UTILITY PLAN 2

JAN 10 2024

DRAWING NO.:
C6.2

SHEET NO. 30 OF ___

Z:\21021\21102.02 Johnston- JES Stage III - RI\DWGS\Utility Plan.dwg

NOTES:

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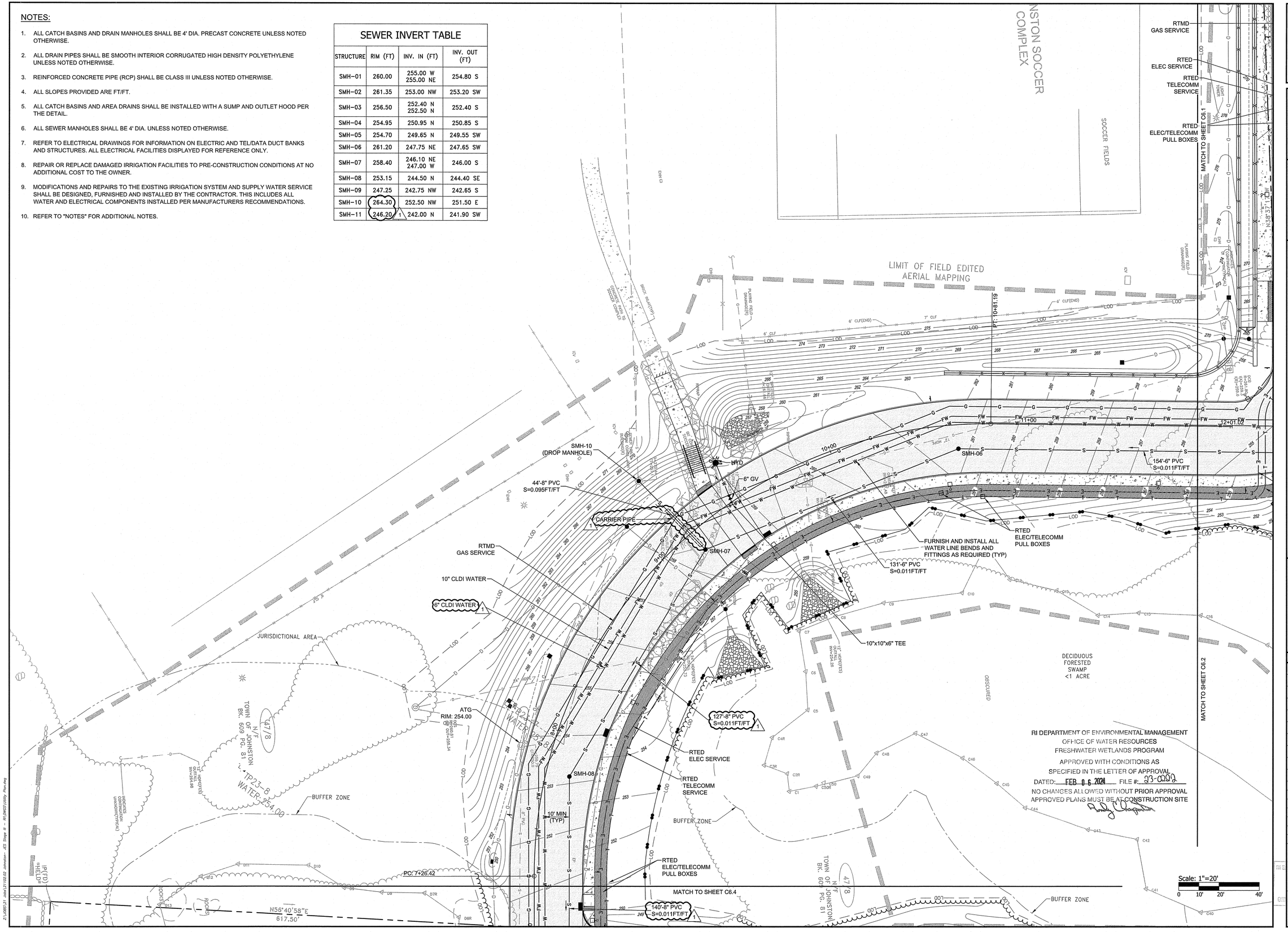


PARE

OWNER:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

APPLICANT:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

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

Johnston Elementary School
Johnston Public Schools
AP 47, LOTS 8 & 9
Atwood Ave
Johnston, RI

DAVID L. POTTER
No. 8665
01.05.24
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:		
1	12-22-2023	RIDEM COMMENTS

PROJECT NO.:	21102.02
DATE:	OCTOBER 16, 2023
SCALE:	AS NOTED
DESIGNED BY:	KJM
CHECKED BY:	MBA
DRAWN BY:	AKL
APPROVED BY:	DLP

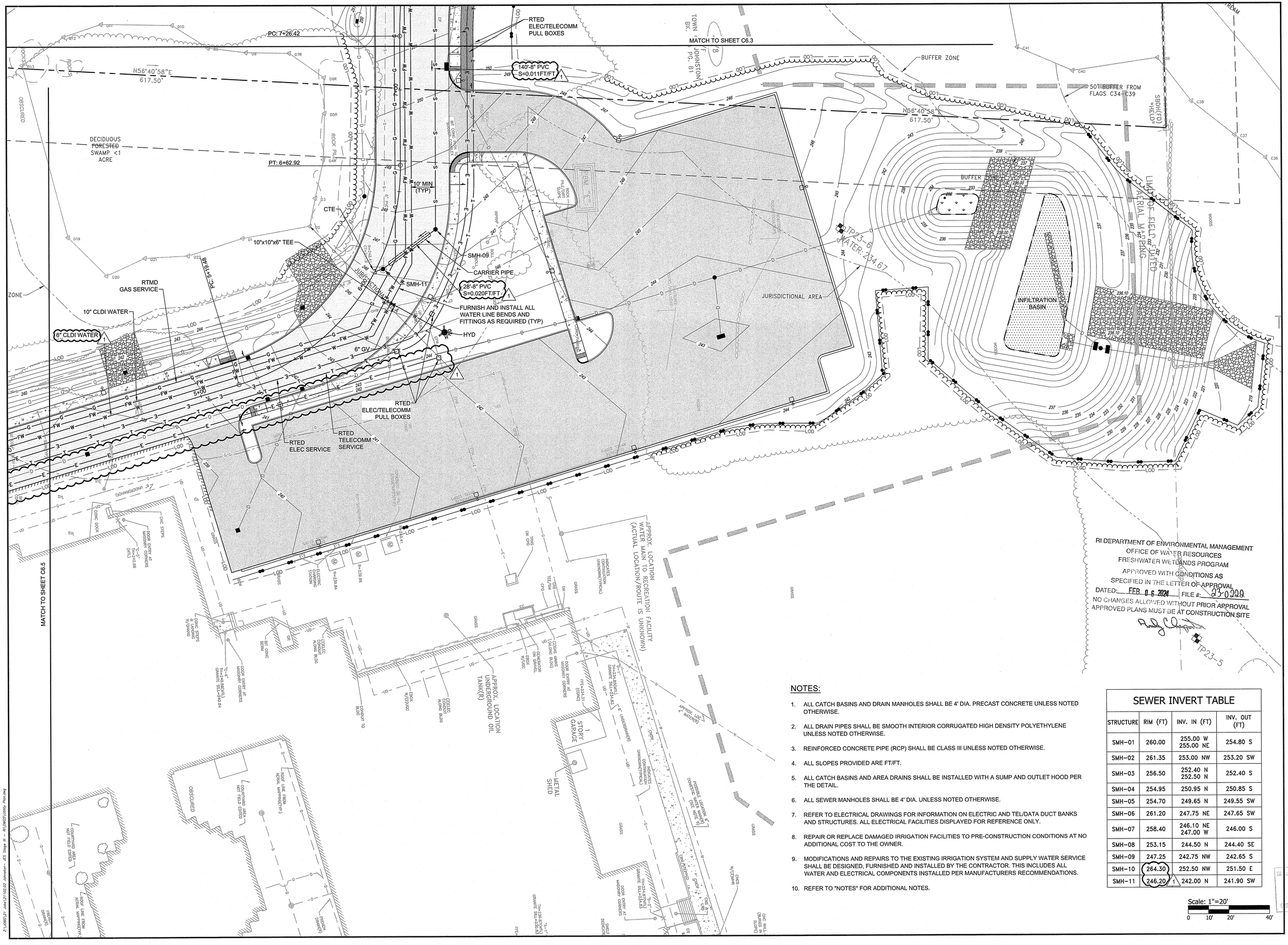
DRAWING TITLE:
UTILITY PLAN 3

RI Department of Environmental Management
JAN 10 2024
Received

DRAWING NO.:
C6.3

SHEET NO. 31 OF

Z:\JOBS\21 Jobs\21102.02 Johnston - JES Slope III - RI\CIVIL\Utility Plan.dwg



NOTES:

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Scale: 1"=20'
0 10' 20' 40'

PARE

OWNER:
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1385 HARTFORD AVENUE
JOHNSTON, RI 02919

APPLICANT:
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1385 HARTFORD AVENUE
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SCALE ADJUSTMENT GUIDE
0" 1"
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Johnston Elementary School
Johnston Public Schools
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Atwood Ave
Johnston, RI

DAVID L. POTTER
No. 8665
01.05.24
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:		
1	12-22-2023	RIDEM COMMENTS

PROJECT NO.:	21102.02
DATE:	OCTOBER 16, 2023
SCALE:	AS NOTED
DESIGNED BY:	KJM
CHECKED BY:	MBA
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:
UTILITY PLAN 4

DRAWING NO.:
C6.4

SHEET NO. 32 OF ___

Z:\JOBS\21 Jobs\21102.02 Johnston - JES Stage II - RI (DSG)\Utility Plans.dwg

NOTES:

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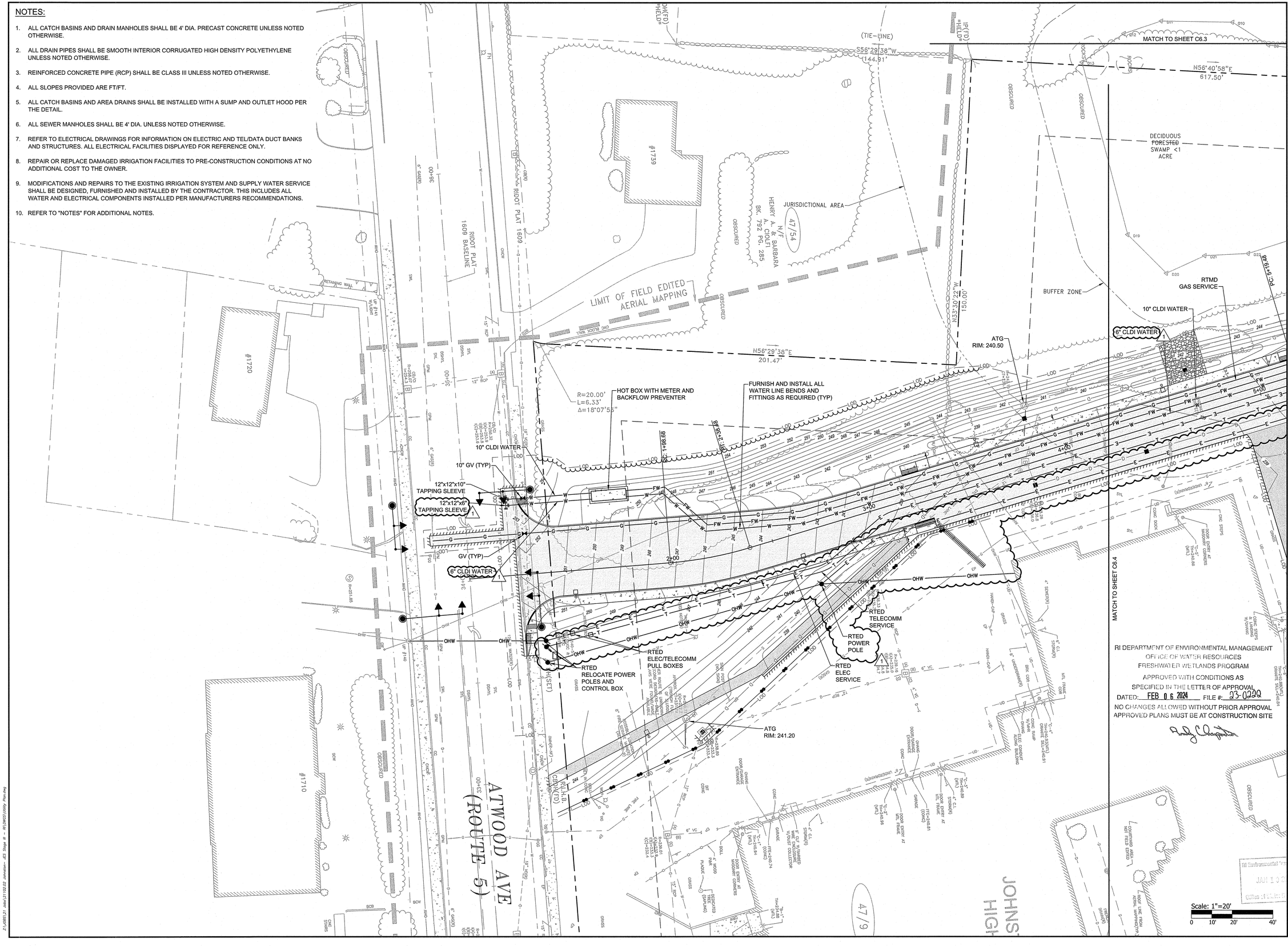

PARE

OWNER:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

APPLICANT:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

SCALE ADJUSTMENT GUIDE
0" 1"
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Johnston Elementary School
Johnston Public Schools
AP 47, LOTS 8 & 9
Atwood Ave
Johnston, RI

DAVID L. POTTER
No. 8665
01.05.24
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:		
1	12-22-2023	RIDEM COMMENTS

PROJECT NO.:	21102.02
DATE:	OCTOBER 16, 2023
SCALE:	AS NOTED
DESIGNED BY:	KJM
CHECKED BY:	MBA
DRAWN BY:	AKL
APPROVED BY:	DLP

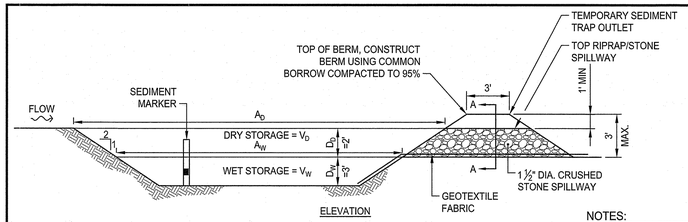
DRAWING TITLE:
UTILITY PLAN 5

DRAWING NO.:
C6.5

SHEET NO. 33 OF ___

RI Department of Environmental Management
JAN 12 2024
Office of Water Resources

Z:\...\Key Plan 43rd\SIM\21102 - # Atwo...sx5 - Johnston 21102.02 Utility Plan 5 10/16/2023 11:38:57 AM EST

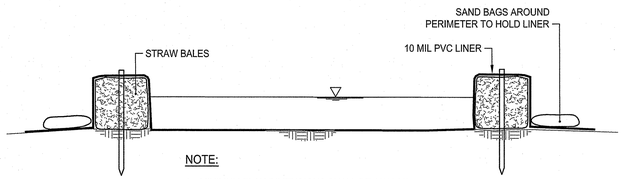


TST #	L_W (FT)	W_W (FT)	A_W (SF)	V_W (CF)	V_D (CF)	TOTAL STORAGE $V_W + V_D$ (CF)
TST-1	60	45	2700	6,885	6,304	13,189
TST-2	50	30	1500	3,825	3,704	7,529
TST-3	30	25	750	1,912	2,004	3,917

NOTES:

1. TEMPORARY SEDIMENT TRAPS SHALL BE CLEANED OR REMOVED EVERY 6 MONTHS.
2. RIPRAP SHALL MEET RIDOT STANDARD SPECIFICATION M.10.03.2.
3. STONE SHALL MEET RIDOT STANDARD SPECIFICATION M.01.09 TABLE I, COLUMN V (FILTER STONE).
4. SEDIMENT MARKER SHALL BE INSTALLED SUCH THAT TOP OF BLACK ENAMEL BAND IS 1.5' FROM THE BOTTOM OF THE SEDIMENT TRAP.

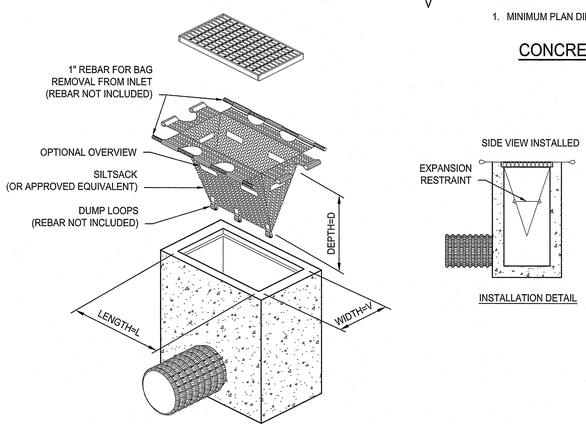
TEMPORARY SEDIMENT TRAP DETAIL
NOT TO SCALE



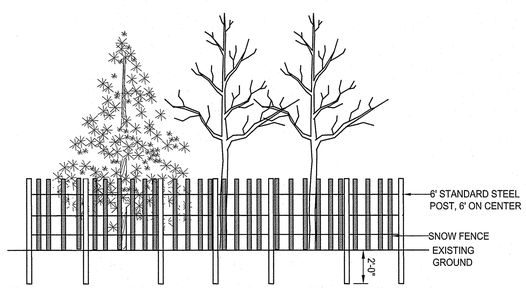
NOTE:

1. MINIMUM PLAN DIMENSIONS SHALL BE 10' X 10'.

CONCRETE WASHOUT FACILITY
NOT TO SCALE



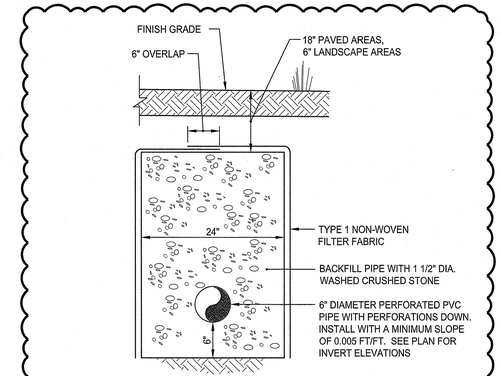
TEMPORARY INLET PROTECTION
NOT TO SCALE



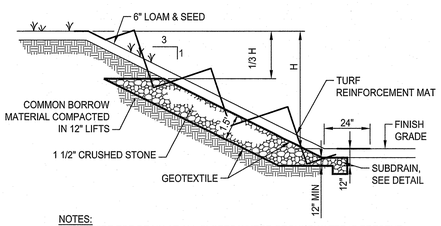
NOTES:

1. TREE GROUP PROTECTION SHALL BE INSTALLED AT THE DRIP LINE OF THE TREES TO BE PROTECTED.

TREE GROUP PROTECTION DETAIL
NOT TO SCALE



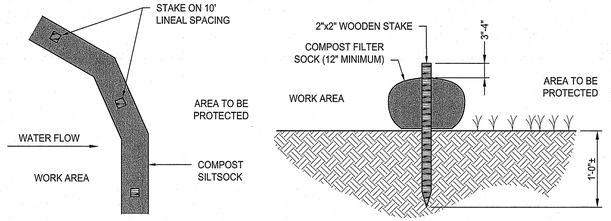
SUBDRAIN DETAIL
NOT TO SCALE



NOTES:

1. PROVIDE TOE DRAIN AT ALL SLOPES WHERE GROUNDWATER IS PRESENT.
2. REFER TO DRAWINGS FOR SUBDRAIN ELEVATIONS.

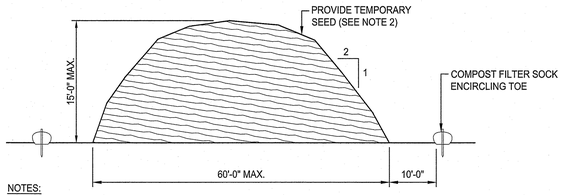
TOE DRAIN DETAIL
NOT TO SCALE



NOTES:

1. COMPOST/ SOIL/ ROCK/ SEED FILL TO MEET APPLICATION REQUIREMENTS.
2. COMPOST MATERIAL TO BE REMOVED OR DISPERSED ON SITE AS DETERMINED BY ENGINEER.
3. IF SOCK NETTING MUST BE JOINED, FIT BEGINNING OF NEW SOCK OVER END OF OLD SOCK, OVERLAPPING BY 2 FEET AND STACK OVERLAP. IF SOCK NETTING IS NOT JOINED, OVERLAP OLD SOCK WITH NEW ONE BY MINIMUM OF 2 FEET.

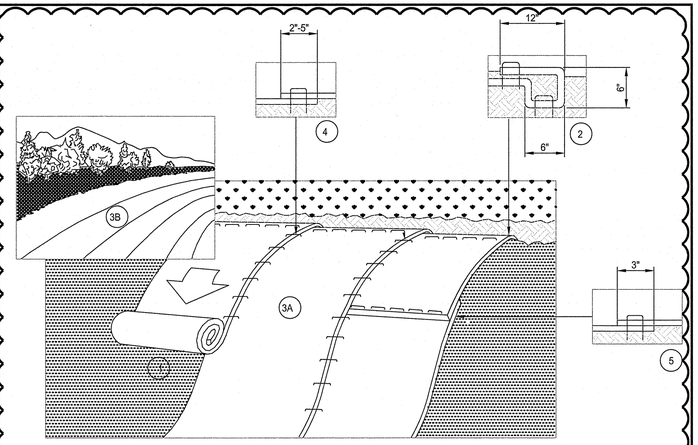
COMPOST FILTER SOCK DETAIL
NOT TO SCALE



NOTES:

1. STOCKPILE AREA SHALL NOT EXCEED SPECIFIED DIMENSIONS WITHOUT APPROVAL FROM ENGINEER.
2. STOCKPILED ERODIBLE MATERIAL THAT WILL NOT BE USED FOR GREATER THAN 14 DAYS SHALL BE STABILIZED WITH TEMPORARY SEED IMMEDIATELY FOLLOWING PLACEMENT. USE RIDOT STD. M.18.10.5 SEED MIX.

ERODIBLE MATERIAL STOCKPILE
NOT TO SCALE



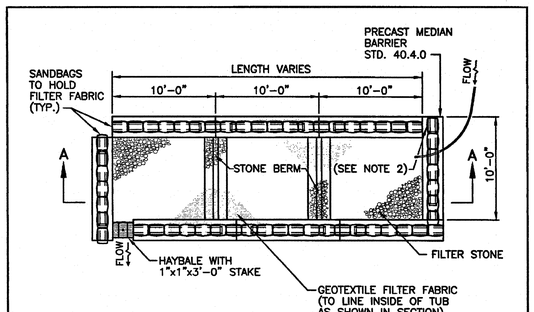
NOTES:

1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED) ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH.

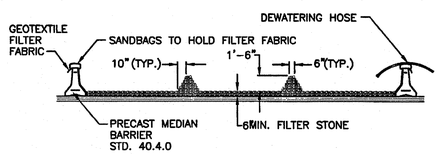
NOTE:

*IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.

TURF REINFORCEMENT INSTALLATION DETAIL
NOT TO SCALE



PLAN

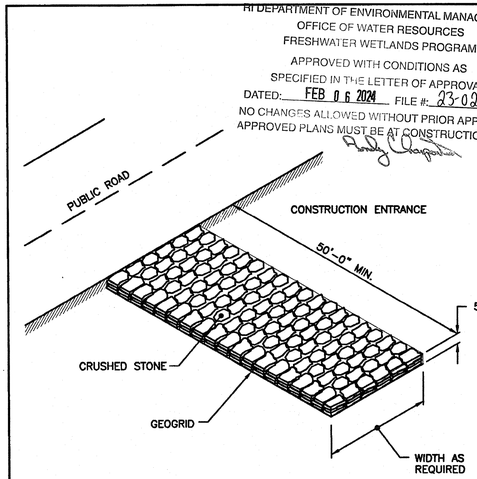


SECTION

NOTS:
1. SHALL BE IN ACCORDANCE WITH SECTION 208 OF THE R.I. STANDARD SPECIFICATIONS.
2. PROVIDE ADDITIONAL SAND BAGS AS REQUIRED TO FILL SPACE BETWEEN ADJACENT BARRIERS.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION				
REVISIONS NO.	BY	DATE	DEWATERING BASIN	R.I. STANDARD 9.7.0
			Chief Engineer, Transportation — Chief Design Engineer, Transportation — JUNE 15, 1998 ISSUE DATE	

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: FEB 06 2024 FILE #: 23-0252
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



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

RHODE ISLAND DEPARTMENT OF TRANSPORTATION				
REVISIONS NO.	BY	DATE	CONSTRUCTION ACCESS	R.I. STANDARD 9.9.0
			Chief Engineer, Transportation — Chief Design Engineer, Transportation — JUNE 15, 1998 ISSUE DATE	

PARE

OWNER:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

APPLICANT:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

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

Johnston Elementary School
Johnston Public Schools
AP 47, LOTS 8 & 9
Atwood Ave
Johnston, RI

DAVID L. POTTER
No. 8665
01.05.24
REGISTERED PROFESSIONAL ENGINEER
CIVIL

REVISIONS:

1	12-22-2023	RIDEM COMMENTS

PROJECT NO.:	21102.02
DATE:	OCTOBER 16, 2023
SCALE:	AS NOTED
DESIGNED BY:	KJM
CHECKED BY:	MBA
DRAWN BY:	AKL
APPROVED BY:	DLP

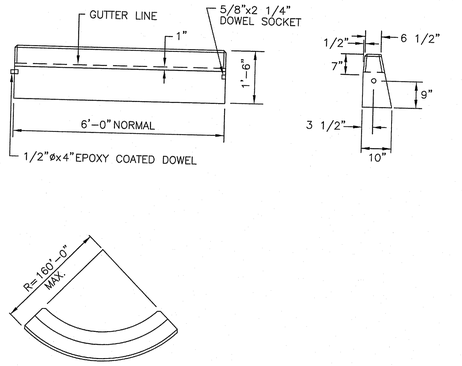
DRAWING TITLE:
DETAILS 1

RI Environmental Management
JAN 12 2024

DRAWING NO.:
C7.1

SHEET NO. 34 OF ___

Z:\JOBS\21-JobA\21102.02 Johnston - JES Stage III - #1\DWGS\Details.dwg



CIRCULAR CURB

NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
2. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR FILLER PIECES TO BE 3'-0".
3. EXPOSED SURFACES TO HAVE A SPONGE FLOAT FINISH.
4. CIRCULAR CURB IS REQUIRED ON CURVES WITH RADII OF 160'-0" OR LESS. STRAIGHT CURB TO BE USED ON CURVES OF MORE THAN 160'-0"RADIUS.
5. EXPOSED EDGES TO HAVE A 3/4" CHAMFER.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

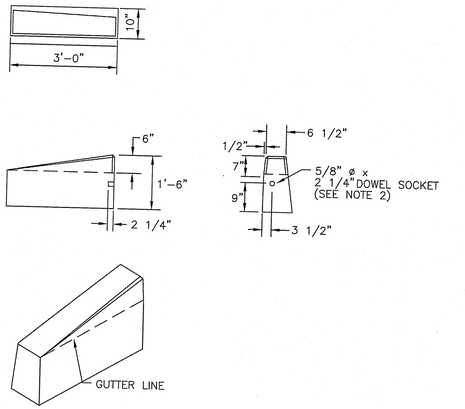
REVISIONS		
NO.	BY	DATE
1	MLP	Mar 05

PRECAST CONCRETE CURB

Jeffrey A. Cigna III — CHIEF ENGINEER TRANSPORTATION; Edmund D. Parker Jr. — CHIEF DESIGN ENGINEER TRANSPORTATION

JUNE 15, 1998 — ISSUE DATE

R.I. STANDARD 7.1.0



NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
2. DRAWING SHOWS TRANSITION CURB FOR ONE DIRECTION, FOR OTHER DIRECTION USE OPPOSITE HAND AND INCLUDE A 1/2" ø x 4" EPOXY COATED DOWEL.
3. EXPOSED SURFACES TO HAVE A SPONGE FLOAT FINISH.
4. EXPOSED EDGES TO HAVE A 3/4"CHAMFER.
5. LEFT AND RIGHT SECTIONS SHALL BE INSTALLED AS REQUIRED.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

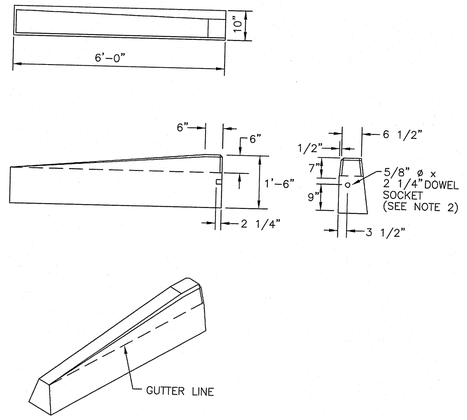
REVISIONS		
NO.	BY	DATE
1	MLP	Mar 05
2	MLP	06/01/10

3'-0" PRECAST CONCRETE TRANSITION CURB

Jeffrey A. Cigna III — CHIEF ENGINEER TRANSPORTATION; Edmund D. Parker Jr. — CHIEF DESIGN ENGINEER TRANSPORTATION

JUNE 15, 1998 — ISSUE DATE

R.I. STANDARD 7.1.1



NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
2. DRAWING SHOWS TRANSITION CURB FOR ONE DIRECTION. FOR OTHER DIRECTION USE OPPOSITE HAND AND INCLUDE A 1/2" ø x 4" EPOXY COATED DOWEL.
3. EXPOSED SURFACES TO HAVE A SPONGE FLOAT FINISH.
4. EXPOSED EDGES TO HAVE A 3/4" CHAMFER.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

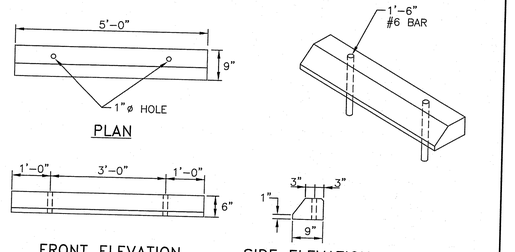
REVISIONS		
NO.	BY	DATE
1	MLP	Mar 05

6'-0" PRECAST CONCRETE TRANSITION CURB

Jeffrey A. Cigna III — CHIEF ENGINEER TRANSPORTATION; Edmund D. Parker Jr. — CHIEF DESIGN ENGINEER TRANSPORTATION

JUNE 15, 1998 — ISSUE DATE

R.I. STANDARD 7.1.2



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: FEB 06 2024 FILE #: 23-0292
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
2. ALL EXPOSED EDGES TO HAVE A 3/4" CHAMFER.
3. ALL SURFACES TO HAVE A SPONGE FLOAT FINISH.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

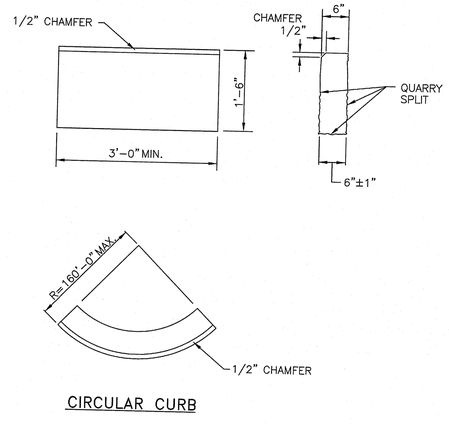
REVISIONS		
NO.	BY	DATE
1	MLP	Mar 05

PRECAST CONCRETE CAR STOPS

Jeffrey A. Cigna III — CHIEF ENGINEER TRANSPORTATION; Edmund D. Parker Jr. — CHIEF DESIGN ENGINEER TRANSPORTATION

JUNE 15, 1998 — ISSUE DATE

R.I. STANDARD 7.2.4



CIRCULAR CURB

NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
2. TOP SURFACE TO BE DRESSED BY SAW. REMAINDER MAY BE QUARRY SPLIT.
3. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR PIECES TO BE 3'-0".
4. CIRCULAR CURB IS REQUIRED ON CURVES WITH RADII OF 160'-0" OR LESS. STRAIGHT CURB TO BE USED ON CURVES OF MORE THAN 160'-0" RADIUS.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

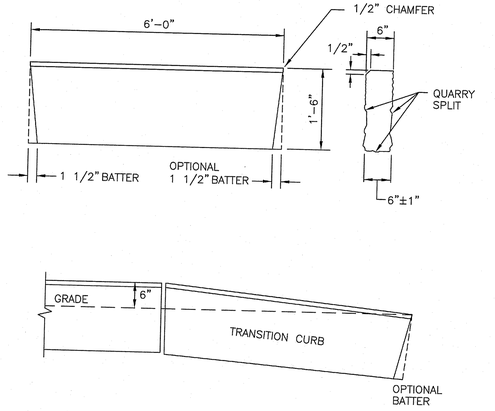
REVISIONS		
NO.	BY	DATE
1	MLP	Mar 2005
2	MLP	Sep 2012

GRANITE CURB

Jeffrey A. Cigna III — CHIEF ENGINEER TRANSPORTATION; Edmund D. Parker Jr. — CHIEF DESIGN ENGINEER TRANSPORTATION

JUNE 15, 1998 — ISSUE DATE

R.I. STANDARD 7.3.0



NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
2. THE CONTRACTOR MAY CUT EXISTING CURB SECTIONS AS REQUIRED TO MEET THIS DETAIL AND THE R.I. STANDARD SPECIFICATIONS, WHERE OLD CURBING IS BEING REUSED.
3. TOP SURFACE TO BE DRESSED BY SAW. REMAINDER MAY BE QUARRY SPLIT.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

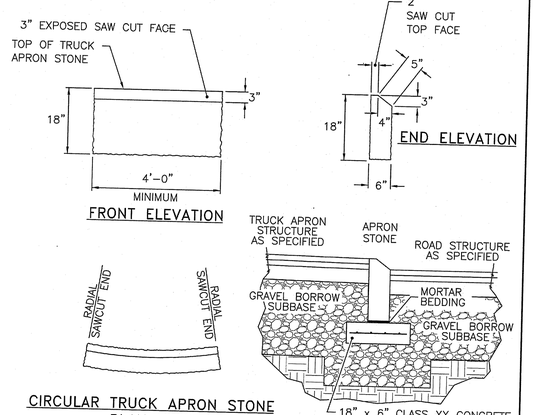
REVISIONS		
NO.	BY	DATE
1	MLP	Mar 2005
2	MLP	Sep 2012

6'-0" GRANITE TRANSITION CURB

Jeffrey A. Cigna III — CHIEF ENGINEER TRANSPORTATION; Edmund D. Parker Jr. — CHIEF DESIGN ENGINEER TRANSPORTATION

JUNE 15, 1998 — ISSUE DATE

R.I. STANDARD 7.3.2



NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
2. ALL EXPOSED SURFACES AND ALL SURFACES FIVE (5) INCHES FROM THE TOP OR BOTTOM TO BE DRESSED BY SAW; REMAINDER MAY BE QUARRY SPLIT.
3. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR RAMP STONE TO BE 4'-0".
4. CIRCULAR APRON STONE IS REQUIRED ON CURVES WITH RADII OF 140'-0" OR LESS.
5. GRANITE TRUCK APRON STONES ARE TO BE USED ON ROUNDABOUTS TO TRANSITION FROM THE ROADWAY SURFACE TO THE TRUCK APRON SURFACE.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

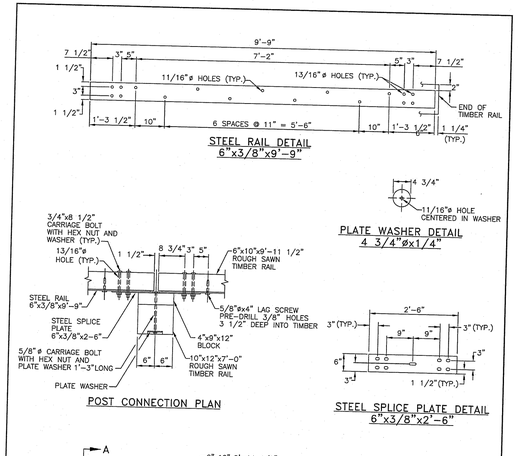
REVISIONS		
NO.	BY	DATE

GRANITE TRUCK APRON STONE

CHIEF ENGINEER TRANSPORTATION — CHIEF DESIGN ENGINEER TRANSPORTATION

MARCH 25, 2014 — ISSUE DATE

R.I. STANDARD 7.7.0



NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 902 OF THE R.I. STANDARD SPECIFICATIONS.
2. ALL STRUCTURAL STEEL AND FASTENER HARDWARE SHALL BE WEATHERING STEEL AS SPECIFIED.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS		
NO.	BY	DATE
1	MLP	3/1/2005

STEEL BACKED TIMBER GUARDRAIL

Jeffrey A. Cigna III — CHIEF ENGINEER TRANSPORTATION; Edmund D. Parker Jr. — CHIEF DESIGN ENGINEER TRANSPORTATION

JUNE 15, 1998 — ISSUE DATE

R.I. STANDARD 34.4.0

PARE

OWNER:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

APPLICANT:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

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

Johnston Elementary School
Johnston Public Schools
AP 47, LOTS 8 & 9
Atwood Ave
Johnston, RI

DAVID L. POTTER
No. 8665
REGISTERED PROFESSIONAL ENGINEER
CIVIL
01.05.24

REVISIONS:

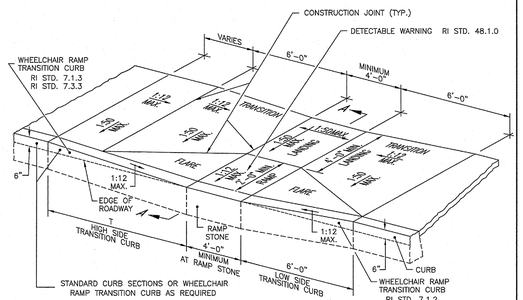
1	12-22-2023	RIDEM COMMENTS

PROJECT NO.:	21102.02
DATE:	OCTOBER 16, 2023
SCALE:	AS NOTED
DESIGNED BY:	KJM
CHECKED BY:	MBA
DRAWN BY:	AKL
APPROVED BY:	DLP

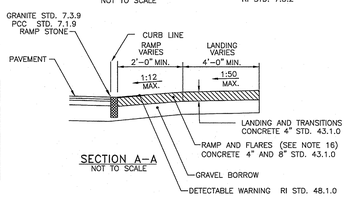
DRAWING TITLE:
DETAILS 2

RI Environmental Management
JAN 19 2024
DRAWING NO.:
C7.2
SHEET NO. 35 OF

Z:\21065121 - Johnston Schools\CAD\C3 Details\Details.dwg



ISOMETRIC VIEW
NOT TO SCALE



ROADWAY PROFILE GRADE	T (FT.)
0.00	6.0
0.01	7.0
0.02	8.0
0.03	9.5
0.04	11.5
0.05	15.0

SECTION A–A
NOT TO SCALE

NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE RI STANDARD SPECIFICATIONS.
2. WHEN ANY OBSTRUCTION LOCATED IN THE SIDEWALK FALLS WITHIN A CROSSWALK AREA, THE WHEELCHAIR RAMP SHALL BE PLACED SUCH THAT THE OBSTRUCTION FALLS OUTSIDE OF THE RAMP.
3. AT NO TIME IS ANY PART OF THE WHEELCHAIR RAMP TO BE LOCATED OUTSIDE OF THE CROSSWALK, AND IT IS TO BE CENTERED WHENEVER POSSIBLE.
4. DRAINAGE FACILITIES ARE TO BE LOCATED UP–GRADE OF ALL WHEELCHAIR RAMPS.
5. LOCATION OF WHEELCHAIR RAMPS IS AS SHOWN ON CONTRACT DRAWINGS.
6. IN NO INSTANCE SHALL THE SIDEWALK CROSS SLOPE EXCEED 1:50 EXCEPT WITHIN THE RAMP AREA.
7. AN UNOBSTRUCTED PATH OF TRAVEL WITH A MINIMUM WIDTH OF 4'–0" SHALL BE MAINTAINED.
8. THE WHEELCHAIR RAMP SLOPE AND SIDE SLOPES (TRANSITIONS), MUST NOT BE STEEPER THAN 1:12. HOWEVER, THESE SLOPES MAY BE FLATTER THAN 1:12 WHEN WARRANTED BY SURROUNDING CONDITIONS.
9. WHERE THE ROAD PROFILE EXCEEDS 5% THE HIGH SIDE TRANSITION LENGTH (T) SHALL BE EIGHTEEN FEET (18'–0").
10. IN NO CASE, WHERE A STOP LINE IS WARRANTED, SHALL A RAMP BE PLACED BEHIND THE STOP LINE.
11. THE ENTRANCE OF THE WHEELCHAIR RAMP SHALL BE FLUSH WITH THE ROADWAY.
12. THE WHEELCHAIR RAMP SHALL BE CENTERED RADIALLY, OPPOSITE THE RADIUS POINT WHEN POSSIBLE.
13. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR FILLER PIECES TO BE 3'–0" (GREATER LENGTHS PREFERRED).
14. ALL REQUIRED CUTTING OF CURB PIECES TO BE PAID FOR UNDER COST OF CURB.
15. DETECTABLE WARNINGS TO BE PAID FOR UNDER SECTION 942 OF THE RI STANDARD SPECIFICATIONS
16. 8" CONCRETE DEPTH FOR RADIUS WHEELCHAIR RAMPS ONLY. USE 4" DEPTH FOR TANGENT (MID–BLOCK) LOCATIONS.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

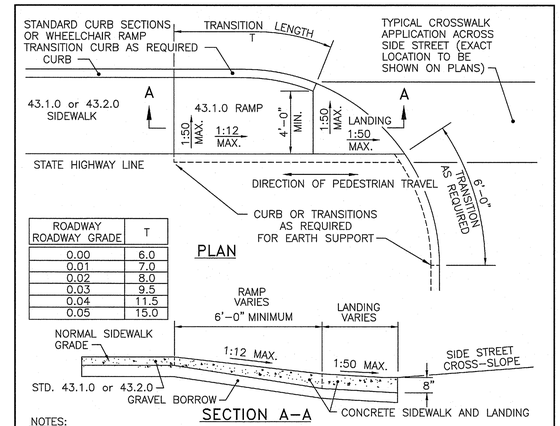
REVISIONS		
NO.	BY	DATE
1	MLP	Oct. 2005
2	MLP	Jun. 2008
3	MLP	Sep. 2012

WHEELCHAIR RAMP

CHIEF ENGINEER TRANSPORTATION — CHIEF DESIGN ENGINEER TRANSPORTATION — JUNE 15, 1998 ISSUE DATE

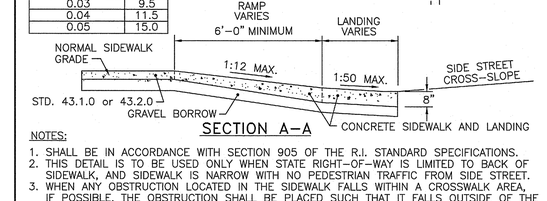
R.I. STANDARD 43.3.0

NOTE: ALL DETECTABLE WARNING MATS SHALL BE CAST IRON. FURNISH AND INSTALL RI STD. 48.1.0 SEE DETAIL. 1



ROADWAY ROADWAY GRADE	T
0.00	6.0
0.01	7.0
0.02	8.0
0.03	9.5
0.04	11.5
0.05	15.0

PLAN



SECTION A–A

NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
2. THIS DETAIL IS TO BE USED ONLY WHEN STATE RIGHT–OF–WAY IS LIMITED TO BACK OF SIDEWALK, AND SIDEWALK IS NARROW WITH NO PEDESTRIAN TRAFFIC FROM SIDE STREET.
3. WHEN ANY OBSTRUCTION LOCATED IN THE SIDEWALK FALLS WITHIN A CROSSWALK AREA, IF POSSIBLE, THE OBSTRUCTION SHALL BE PLACED SUCH THAT IT FALLS OUTSIDE OF THE RAMP.
4. AT NO TIME IS ANY PART OF THE WHEELCHAIR RAMP TO BE LOCATED OUTSIDE OF THE CROSSWALK, AND IT IS TO BE CENTERED WHENEVER POSSIBLE.
5. DRAINAGE FACILITIES ARE TO BE LOCATED UP–GRADE OF ALL WHEELCHAIR RAMPS.
6. LOCATION OF WHEELCHAIR RAMPS IS AS SHOWN ON CONTRACT DRAWINGS.
7. ALL REQUIRED CUTTING OF CURB PIECES TO BE PAID FOR UNDER COST OF CURB.
8. WHERE THE ROAD PROFILE EXCEEDS 5% THE TRANSITION LENGTH (T) SHALL BE EIGHTEEN FEET (18'–0").
9. THE ENTRANCE OF THE WHEELCHAIR RAMP SHALL BE FLUSH WITH THE ROADWAY.
10. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR FILLER PIECES TO BE 3'–0"(GREATER LENGTHS PREFERRED).
11. AN UNOBSTRUCTED PATH OF TRAVEL WITH A MINIMUM WIDTH OF 4'–0" SHALL BE MAINTAINED.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

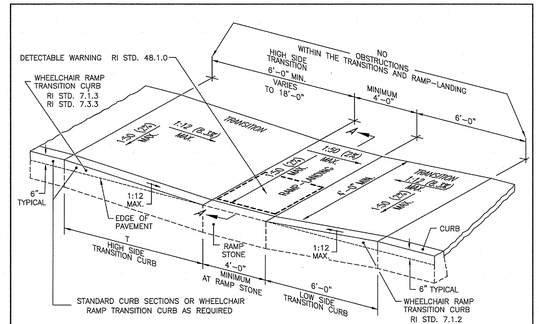
REVISIONS		
NO.	BY	DATE
1	MLP	Dec 2005
2	MLP	Sep 2012

WHEELCHAIR RAMP FOR LIMITED RIGHT–OF–WAY AREAS

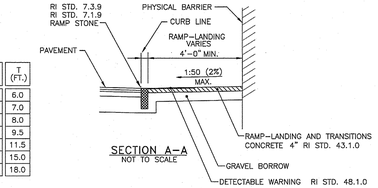
CHIEF ENGINEER TRANSPORTATION — CHIEF DESIGN ENGINEER TRANSPORTATION — JUNE 15, 1998 ISSUE DATE

R.I. STANDARD 43.3.1

NOTE: ALL DETECTABLE WARNING MATS SHALL BE CAST IRON. FURNISH AND INSTALL RI STD. 48.1.0 SEE DETAIL. 1



ISOMETRIC VIEW
NOT TO SCALE



ROADWAY PROFILE GRADE	T (FT.)
0.00	6.0
0.01	7.0
0.02	8.0
0.03	9.5
0.04	11.5
0.05	15.0
> 0.05	18.0

SECTION A–A
NOT TO SCALE

NOTES:
1. THIS DETAIL MAY BE USED WHEN A PHYSICAL BARRIER IS PRESENT AND THERE IS INSUFFICIENT ROOM TO PROPERLY CONSTRUCT AN ADA ACCESSIBLE RAMP AND LANDING; A TECHNICAL INFEASIBILITY FINDING IS REQUIRED.
2. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE RI STANDARD SPECIFICATIONS.
3. THE RAMP–LANDING AND TRANSITIONS SHALL BE FREE OF OBSTRUCTIONS.
4. LOCATION OF THE RAMP–LANDING IS AS SHOWN ON CONTRACT DRAWINGS.
5. AN UNOBSTRUCTED PEDESTRIAN ACCESS ROUTE (PATH OF TRAVEL) WITH A MINIMUM WIDTH OF 4'–0" SHALL BE MAINTAINED.
6. THE ENTRANCE OF THE RAMP–LANDING SHALL BE FLUSH WITH THE PAVEMENT.
7. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR FILLER PIECES TO BE 3'–0" (GREATER LENGTHS PREFERRED).
8. ALL REQUIRED CUTTING OF CURB PIECES TO BE PAID FOR UNDER COST OF CURB.
9. DETECTABLE WARNINGS TO BE PAID FOR UNDER SECTION 942 OF THE RI STANDARD SPECIFICATIONS

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

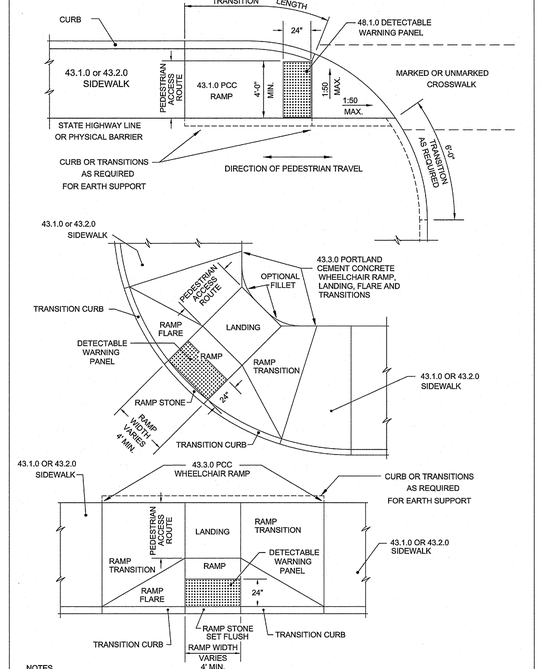
REVISIONS		
NO.	BY	DATE

RAMP–LANDING FOR NARROW SIDEWALK

CHIEF ENGINEER TRANSPORTATION — CHIEF DESIGN ENGINEER TRANSPORTATION — MARCH 31, 2015 ISSUE DATE

R.I. STANDARD 43.3.2

NOTE: ALL DETECTABLE WARNING MATS SHALL BE CAST IRON. FURNISH AND INSTALL RI STD. 48.1.0 SEE DETAIL. 1



NOTES
1. DETECTABLE WARNING PANEL SHALL BE IN ACCORDANCE WITH SECTION 942 OF THE RHODE ISLAND STANDARD SPECIFICATIONS; PANEL TO MATCH RAMP WIDTH.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

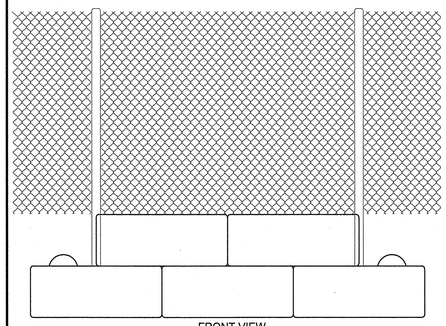
REVISIONS		
NO.	BY	DATE
1	MLP	Mar 2006
2	MLP	Sep 2012

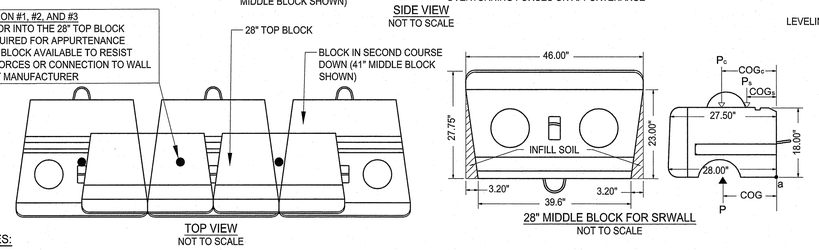
DETECTABLE WARNING PANEL PLACEMENT

CHIEF ENGINEER TRANSPORTATION — CHIEF DESIGN ENGINEER TRANSPORTATION — JUNE 15, 1998 ISSUE DATE

R.I. STANDARD 48.1.0

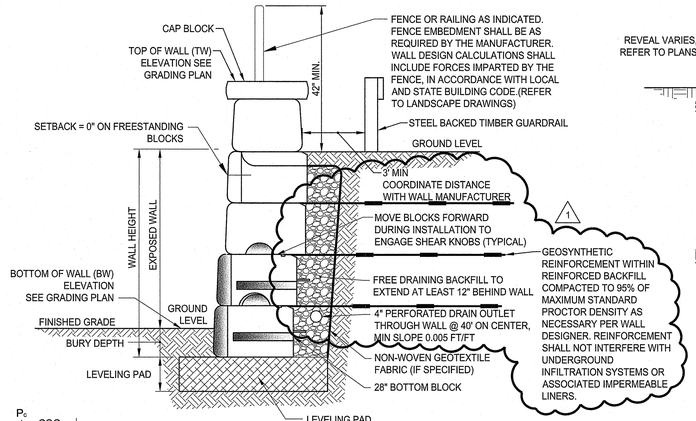
NOTE: ALL DETECTABLE WARNING MATS SHALL BE CAST IRON



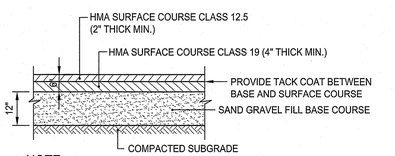


NOTES:
1. RETAINING WALLS SHALL BE REDI-ROCK, OR STRONG STONE, RE-CON RETAINING WALL SYSTEMS, INC., SERIES 50, NORTH SHORE GRANITE TEXTURE OR APPROVED EQUIVALENT. SEE SPECIFICATIONS FOR WALL DESIGN REQUIREMENTS.
2. THESE DETAILS ARE FOR REFERENCE PURPOSES ONLY. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS COMPLETED AND STAMPED BY A RHODE ISLAND REGISTERED STRUCTURAL ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION. SHOP DRAWINGS SHALL INCLUDE ALL DETAILS AND INFORMATION NECESSARY FOR CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE THE WALL DESIGN ENGINEER ALL APPURTENANT INFORMATION FOR THEIR DESIGN AND CALCULATIONS.

SRW SEGMENTAL RETAINING WALL DETAILS
NOT TO SCALE

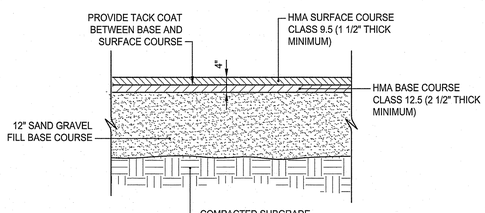


TYPICAL SECTION-SEGMENTAL RETAINING WALL
MODULAR CONCRETE UNIT
NOT TO SCALE



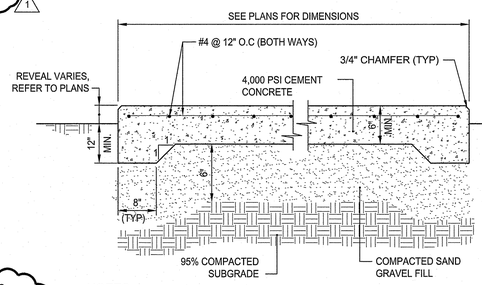
NOTE:
SUBMIT JOB MIX FORMULAS TO ENGINEER FOR APPROVAL PRIOR TO PLACEMENT

HEAVY DUTY HOT MIX ASPHALT DETAIL
NOT TO SCALE



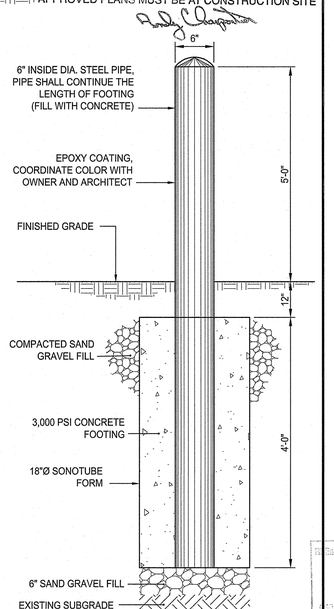
NOTE:
1. SUBMIT JOB MIX FORMULAS TO ENGINEER FOR APPROVAL PRIOR TO PLACEMENT.

HOT MIX ASPHALT PAVEMENT
NOT TO SCALE



NOTES:
1. REINFORCING TO BE #4 GRADE 60 BARS AND SHALL CONFORM TO ASTM STANDARD A-615 OF THE LATEST DATA. REINFORCING RODS TO BE LOCATED IN THE CENTER OF THE SLAB, WITH A MINIMUM OF 2" CLEARANCE FROM FACE OF CONCRETE.
2. CONTRACTOR SHALL COORDINATE LOCATIONS OF OPENINGS, FENCE POSTS, OR OTHER FEATURES IN SLAB.

CEMENT CONCRETE PAD
NOT TO SCALE



BOLLARD DETAIL
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: FEB 06 2024 FILE #: 23-0232
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

PARE

OWNER:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

APPLICANT:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

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

Johnston Elementary School
Johnston Public Schools
AP 47, LOTS 8 & 9
Atwood Ave
Johnston, RI

DAVID L. POTTER
No. 8665
01.05.24
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:		
1	12-22-2023	RIDEM COMMENTS

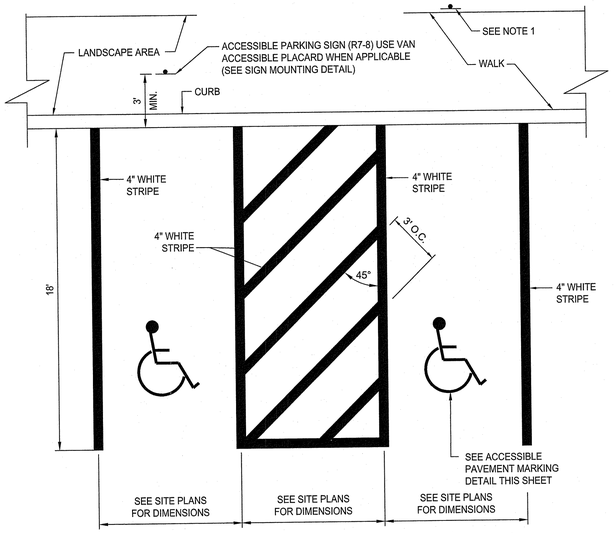
PROJECT NO.:	21102.02
DATE:	OCTOBER 16, 2023
SCALE:	AS NOTED
DESIGNED BY:	KJM
CHECKED BY:	MBA
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE: DETAILS 3

DRAWING NO.: C7.3

SHEET NO. 36 OF ___

Z:\JOBS\21-xxx\21102.02 Johnston- JCS Stage III - RI\DWG\Details.dwg

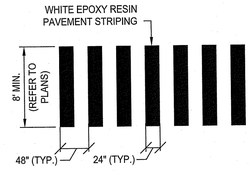


NOTES:

1. WHERE STALLS ABUT SIDEWALK, PARKING SIGNS SHOULD BE PLACED AT BACK EDGE OF SIDEWALK.
2. ALL PAVEMENT MARKINGS TO BE EPOXY RESIN.

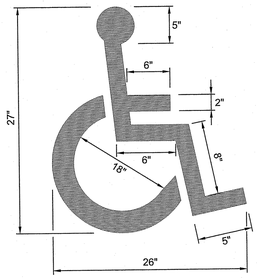
ACCESSIBLE PARKING STALLS @ 90°

NOT TO SCALE



TYPICAL CROSSWALK DETAIL

NOT TO SCALE

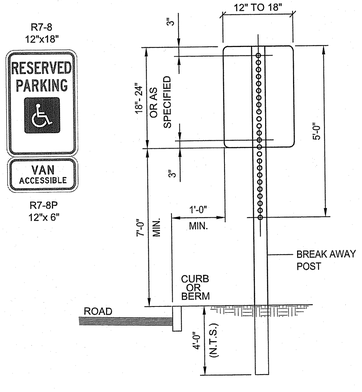


NOTE:

ACCESSIBLE PARKING AND SIGNAGE SHALL BE IN CONFORMANCE WITH THE RULES & REGULATIONS OF THE AMERICANS WITH DISABILITIES ACT.

ACCESSIBLE PAVEMENT MARKING

NOT TO SCALE

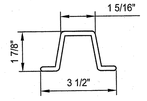


NOTE:

5/16" x 2-1/2" GALVANIZED BOLTS & WASHERS

STEEL SPECIFICATION - A.S.T.M. DESIGNATION A499-64 ZINC (HOT GALVANIZED) SPECIFIED BY- A.S.T.M. A 123.

WT./FT.	3.00 #	4
Mom. Ix-x	0.484in	3
Sec Mod x-x	0.569in	4
Mon Iy-y	0.886in	3
Sec Mod y-y	0.506in	3



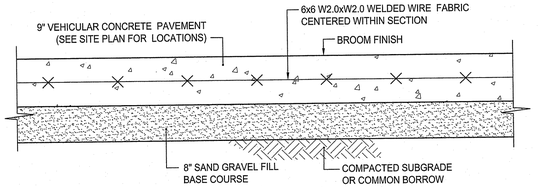
PARKING SIGNS SHALL BE SET AT AN ANGLE OF NOT LESS THAN 30° NOR MORE THAN 45° IN A LINE PARALLEL TO THE FLOW OF TRAFFIC.

NOTES:

1. ALL LAG SCREWS, BOLTS AND WASHERS SHALL BE GALVANIZED 5/16"x2 1/2" LONG UNLESS OTHERWISE NOTED.
2. WASHERS SHALL BE 0.07" THICK.
3. ALL SIGN COLORS, RADII AND BORDERS AS SPECIFIED IN "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."
4. SHALL BE IN ACCORDANCE WITH SECTION T.15 OF THE STANDARD SPECIFICATIONS.
5. PARKING SIGNS SHALL BE SET AT AN ANGLE OF NOT LESS THAN 30° NOT MORE THAN 45° WITH A LINE PARALLEL TO FLOW OF TRAFFIC, 1'-6" (1'-0" MIN.) FROM THE EDGE OF CURB FACE.
6. ALL ACCESSIBLE PARKING AND SIGNAGE SHALL BE IN CONFORMANCE WITH THE RULES & REGULATIONS AS SPECIFIED BY THE AMERICAN DISABILITIES ACT (ADA).
7. SIGN(S) SHALL BE LOCATED SO THEY CANNOT BE OBSCURED BY A VEHICLE PARKED IN THE SPACE.
8. FOR ACCESSIBLE VAN SPACE USE SIGN AS DETAILED.
9. FOR ACCESSIBLE SPACE FOR AUTOMOBILES USE ONLY HANDICAPPED PARKING SIGN.

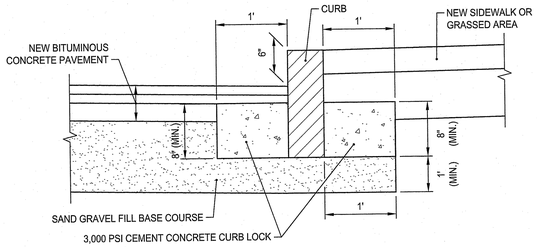
ACCESSIBLE SIGN MOUNTING

NOT TO SCALE



VEHICULAR CONCRETE PAVEMENT

NOT TO SCALE

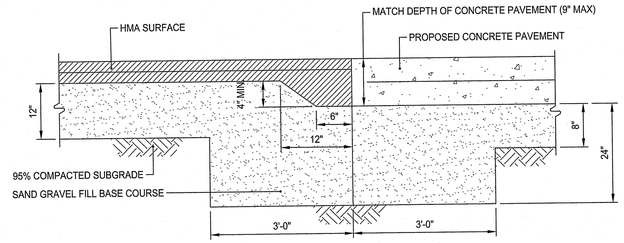


NOTES:

1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
2. PROVIDE CEMENT CONCRETE CURB LOCK ON ALL CURBS

CURB SETTING DETAIL

NOT TO SCALE



ASPHALT TURNDOWN DETAIL

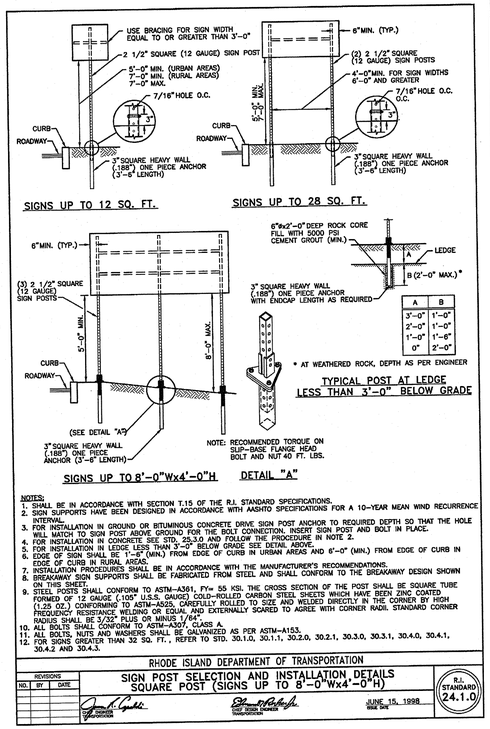
NOT TO SCALE

LEGEND	DESIGNATION	SIZE
STOP	R1-1	(30" x 30")
YIELD	R1-2	(30" x 30" x 30")
SPEED LIMIT 10	R2-1	(18" x 24")
RIGHT LANE MUST TURN RIGHT	R3-7R	(30" x 30")
LEFT LANE MUST TURN LEFT	R3-7L	(30" x 30")
DO NOT ENTER	R5-1	(24" x 24") (30" x 30")
RESERVED PARKING	R7-8	(12" x 18")
VAN ACCESSIBLE	R7-8P	(12" x 6")
	W16-7P(L)	(12" x 24")
	S1-1	(30" x 30")
	GENERAL DIRECTIONAL SIGN, REFER TO PLANS FOR TEXT	(30" x 24") OR AS REQUIRED
NO IDLING	NO IDLING	(12" x 18")
NO SMOKING	NO SMOKING	(24" x 36")
RESERVED VEHICLE FOR USE BY CHARGING EVCS	EVCS	(12" x 18")

NOTE:

1. SIGNS SHALL BE CONSTRUCTED OF TYPE III REFLECTORIZED SHEETING AND IN ACCORDANCE WITH MUTCD REQUIREMENTS, LATEST REVISION.
2. THE CONTRACTOR SHALL SUBMIT SAMPLE SIGNS TO THE OWNER FOR APPROVAL PRIOR TO FURNISHING.
3. LETTERS, COLOR, AND FONT FOR NON-STANDARD SIGNS SHALL BE SELECTED BY THE OWNER.
4. ALL SIGN MOUNTING SHALL CONFORM TO R.I. STD. DETAIL 24.2.0 EXCEPT R7-8 AND R7-8P. R7-8 AND R7-8P SHALL CONFORM TO ACCESSIBLE SIGN MOUNTING DETAIL.

SIGN SCHEDULE



NOTES:

1. SHALL BE IN ACCORDANCE WITH SECTION T.15 OF THE R.I. STANDARD SPECIFICATIONS.
2. SIGN SUPPORTS HAVE BEEN DESIGNED IN ACCORDANCE WITH AASHTO SPECIFICATIONS FOR A 10-YEAR MEAN WIND RECURRENCE INTERVAL.
3. FOR INSTALLATION IN GROUND OR BITUMINOUS CONCRETE DRIVE SIGN POST ANCHOR TO REQUIRED DEPTH SO THAT THE HOLE WILL MATCH TO SIGN POST ABOVE GROUND FOR THE BOLT CONNECTION. INSERT SIGN POST AND BOLT IN PLACE.
4. FOR INSTALLATION IN CONCRETE SEE STD. 25.3.0 AND FOLLOW THE PROCEDURE IN NOTE 2.
5. FOR INSTALLATION IN LEDGE LESS THAN 3'-0" BELOW GRADE SEE DETAIL ABOVE.
6. EDGE OF SIGN SHALL BE 1'-6" (MIN.) FROM EDGE OF CURB IN URBAN AREAS AND 6'-0" (MIN.) FROM EDGE OF CURB IN RURAL AREAS.
7. EDGE OF CURB IN RURAL AREAS.
8. INSTALLATION PROCEDURES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
9. BREAKAWAY SIGN SUPPORTS SHALL BE FABRICATED FROM STEEL AND SHALL CONFORM TO THE BREAKAWAY DESIGN SHOWN ON THIS SHEET.
10. STEEL POSTS SHALL CONFORM TO ASTM-A36, FY= 55 KSI. THE CROSS SECTION OF THE POST SHALL BE SQUARE TUBE FORMED OF 12 GAUGE (.105" U.S. GAUGE) COLD-ROLLED CARBON STEEL SHEETS WHICH HAVE BEEN ZINC COATED (1.25 OZ.) CONFORMING TO ASTM-A525, CAREFULLY ROLLED TO SIZE AND WELDED DIRECTLY IN THE CORNER BY HIGH FREQUENCY RESISTANCE WELDING OR EQUAL AND EXTERNALLY SCARED TO AGREE WITH CORNER RADII. STANDARD CORNER RADIUS SHALL BE 3/32 PLUS OR MINUS 1/64".
11. ALL BOLTS SHALL CONFORM TO ASTM-A307, CLASS A.
12. ALL BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED AS PER ASTM-A153.
13. FOR SIGNS GREATER THAN 32 SQ. FT., REFER TO STD. 30.1.0, 30.1.1, 30.2.0, 30.2.1, 30.3.0, 30.3.1, 30.4.0, 30.4.1, 30.4.2 AND 30.4.3.

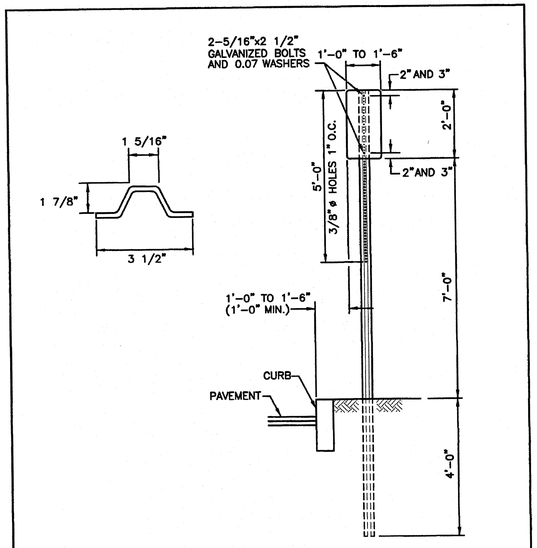
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS NO.	BY	DATE

SIGN POST SELECTION AND INSTALLATION DETAILS
SQUARE POST (SIGNS UP TO 8'-0"Wx4'-0"H)

Jason K. Cygelski, CHIEF ENGINEER TRANSPORTATION — Edmund Baker Jr., CHIEF DESIGN ENGINEER TRANSPORTATION — JUNE 15, 1998 ISSUE DATE

R.I. STANDARD 24.1.0



NOTES:

1. SHALL BE IN ACCORDANCE WITH SECTION T.15 OF THE STANDARD SPECIFICATIONS.
2. PARKING SIGNS SHALL BE SET AT AN ANGLE OF NOT LESS THAN 30° NOR MORE THAN 45° WITH A LINE PARALLEL TO FLOW OF TRAFFIC, 1'-6" (1'-0" MIN.) FROM EDGE OF CURB FACE.

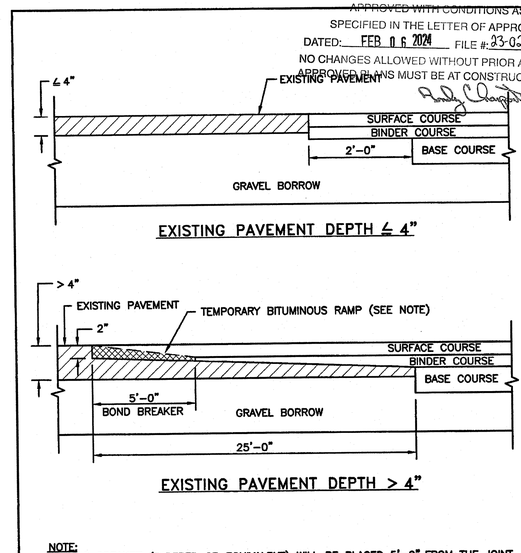
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS NO.	BY	DATE

PARKING SIGN MOUNTING DETAIL

Jason K. Cygelski, CHIEF ENGINEER TRANSPORTATION — Edmund Baker Jr., CHIEF DESIGN ENGINEER TRANSPORTATION — JUNE 15, 1998 ISSUE DATE

R.I. STANDARD 24.6.0



EXISTING PAVEMENT DEPTH ≤ 4"

EXISTING PAVEMENT DEPTH > 4"

NOTE:

A BOND BREAKER (TAPERED OR EQUIVALENT) WILL BE PLACED 5'-0" FROM THE JOINT AND COVERED WITH THE BINDER COURSE AS THE TEMPORARY RAMP. PRIOR TO PLACING THE SURFACE COURSE, THE BINDER COURSE AND BOND BREAKER WILL BE REMOVED.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS NO.	BY	DATE

TRANSVERSE PAVEMENT CUT AND MATCH

Jason K. Cygelski, CHIEF ENGINEER TRANSPORTATION — Edmund Baker Jr., CHIEF DESIGN ENGINEER TRANSPORTATION — JUNE 15, 1998 ISSUE DATE

R.I. STANDARD 47.1.1

RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: FEB 06 2024 FILE #: 23-0293
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

PARE

OWNER:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

APPLICANT:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

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

Johnston Elementary School
Johnston Public Schools

AP 47, LOTS 8 & 9
Atwood Ave
Johnston, RI

DAVID L. POTTER
No. 8665
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
01.05.24

REVISIONS:

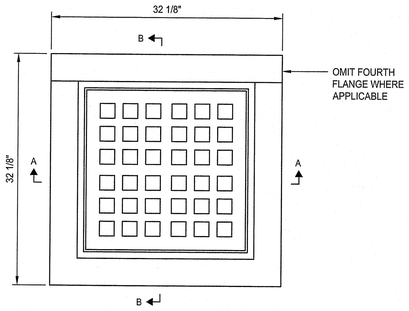
1	12-22-2023	RIDEM COMMENTS

PROJECT NO.:	21102.02
DATE:	OCTOBER 16, 2023
SCALE:	AS NOTED
DESIGNED BY:	KJM
CHECKED BY:	MBA
DRAWN BY:	AKL
APPROVED BY:	DLP

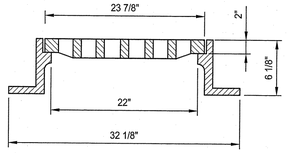
DRAWING TITLE:
DETAILS 4

DRAWING NO.:
C7.4
SHEET NO. 37 OF ___

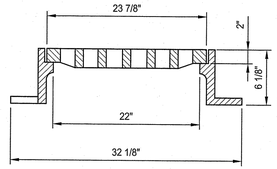
Z:\JOBS\21_xtra\21102.02 Johnston - JES Stage III + PI\DWGS\Details.dwg



PLAN



SECTION A-A



SECTION B-B

NOTES:

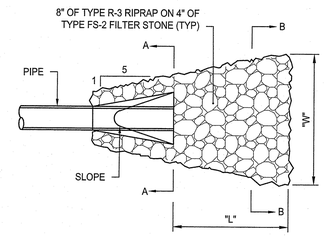
1. NEENAH FOUNDRY R-3405-A OR APPROVED EQUIVALENT.
2. FRAME AND GRATE SHALL MEET H-20 LOADING CRITERIA.

GENERAL NOTES:

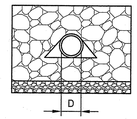
1. REINFORCING STEEL CONFORMS TO LATEST A.S.T.M. A 185 SPEC. 0.12 SQ. IN/LINEAL FT. AND 0.12 SQ. IN. (BOTH WAYS) BASE BOTTOM
2. CONC. MINIMUM COMPRESSIVE STRENGTH = 4000 PSI TYPE III CEMENT.
3. MANHOLE DESIGN SPECIFICATIONS CONFORM TO LATEST A.S.T.M. C 478 SPEC. FOR "PRECAST REINFORCED CONCRETE MANHOLE SECTIONS".
4. PROVIDE ONE POUR 6" THICK REINFORCED MONOLITHIC BASE SECTION.
5. MANHOLE SHALL MEET H-20 LOADING CRITERIA.
6. ALL LIFTING HOLES TO BE PLUGGED IN AND OUT WITH HYDRAULIC CEMENT
7. MANHOLES SHALL HAVE 6" THICK WALLS.

SQUARE CATCH BASIN FRAME & GRATE

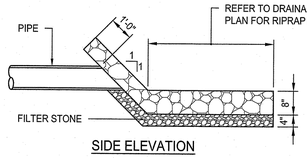
NOT TO SCALE



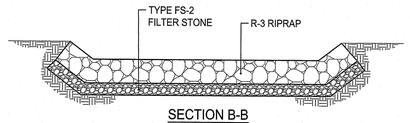
PLAN



SECTION A-A



SIDE ELEVATION



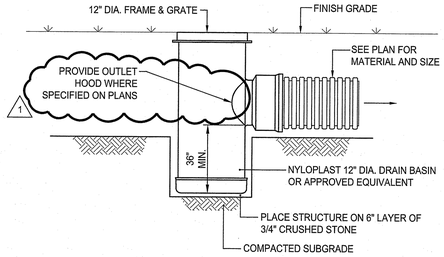
SECTION B-B

NOTE:

RIPRAP AND FILTER STONE SIZE TO BE DETERMINED

RIPRAP LEVEL SPREADER

NOT TO SCALE

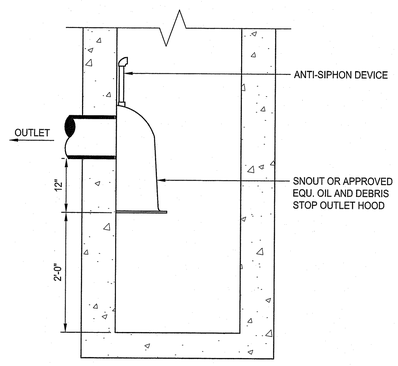


NOTES:

1. DRAIN BASIN SHALL BE CUSTOM MANUFACTURED FOR THE PROJECT WITH THE INLETS AND OUTLETS REQUIRED.
2. STRUCTURES SHALL BE CONSTRUCTED TO WITHSTAND LOADS IMPOSED BY CONSTRUCTION VEHICLES.
3. DRAIN BASIN SHALL BE CONSTRUCTED OF HIGH DENSITY POLYETHYLENE.
4. FRAME AND GRATE SHALL BE CONSTRUCTED OF DUCTILE IRON AND CONFORM TO ASTM A536 GRADE 70-50-05. GRATES SHALL BE NYLOPLAST 1299CGD OR APPROVED EQUAL

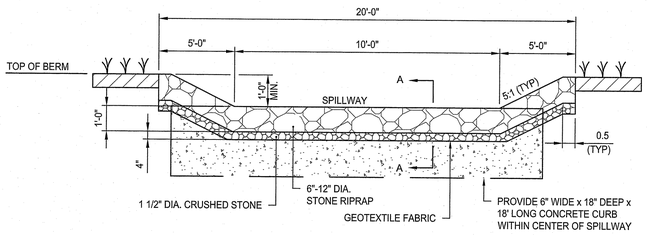
AREA DRAIN DETAIL

NOT TO SCALE



DEEP SUMP WITH OUTLET HOOD DETAIL

NOT TO SCALE

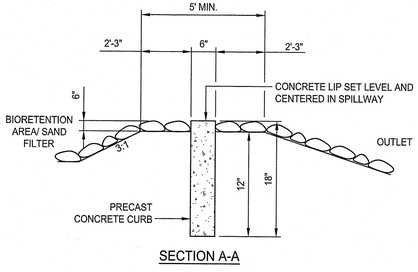


NOTE:

CONTRACTOR SHALL FILL VOIDS BETWEEN CURB SECTIONS WITH MORTAR

RIPRAP SPILLWAY DETAIL

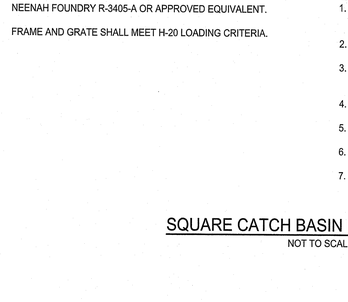
NOT TO SCALE



SECTION A-A

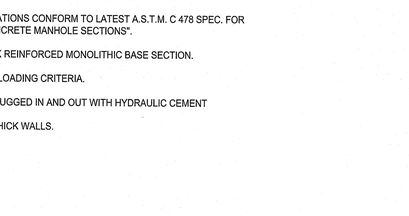
VALVE BOX DETAIL

NOT TO SCALE



SEDIMENT MARKER DETAIL

NOT TO SCALE



RIPRAP SLOPE

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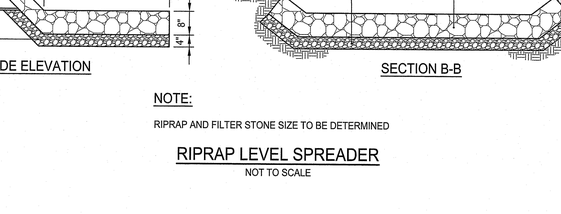
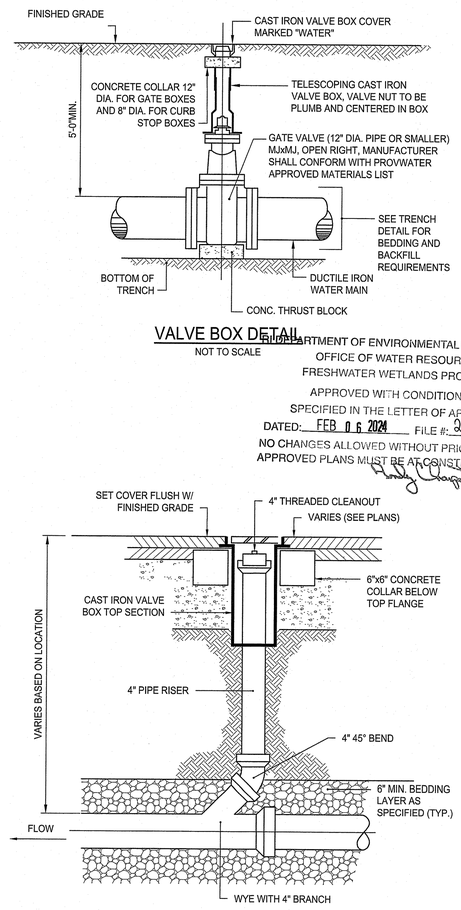


NOTES:

1. SEED WITH OPEN CHANNEL GRASSES AS SPECIFIED IN APPENDIX B OF THE RI STORMWATER MANUAL.
2. REFER TO ELUR FOR THE PROPERTY AND THE SOIL MANAGEMENT PLAN SOIL HANDLING AND CAPPING REQUIREMENTS

GRASS CHANNEL DETAIL

NOT TO SCALE



CLEANOUT DETAIL

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: FEB 0 6 2024 FILE #: 23-0200
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

PARE

OWNER:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

APPLICANT:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

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

Johnston Elementary School
Johnston Public Schools
AP 47, LOTS 8 & 9
Atwood Ave
Johnston, RI

DAVID L. POTTER
No. 8665
01.05.24
REGISTERED PROFESSIONAL ENGINEER
(CIVIL)

REVISIONS:

1	12-22-2023	RIDEM COMMENTS

PROJECT NO.:	21102.02
DATE:	OCTOBER 16, 2023
SCALE:	AS NOTED
DESIGNED BY:	KJM
CHECKED BY:	MBA
DRAWN BY:	AKL
APPROVED BY:	DLP

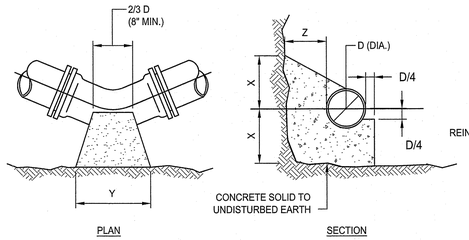
DRAWING TITLE:
DETAILS 5

DRAWING NO.:
C7.5

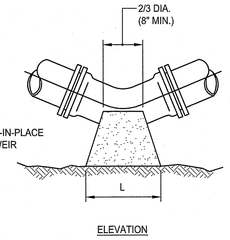
SHEET NO. 38 OF

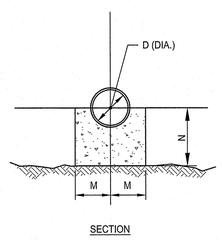
RI Department of Environmental Management
JAN 1 2 2024
Public Drinking Water Program

Z:\JOBS\21_Jobs\21102.02_Johnston_JES_Stage III_-_RI\DWG\Details.dwg

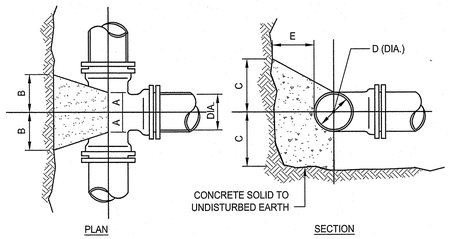


HORIZONTAL BENDS

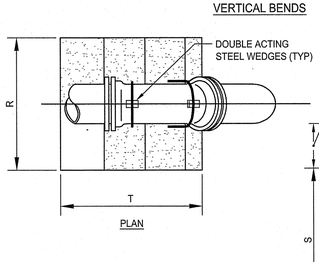


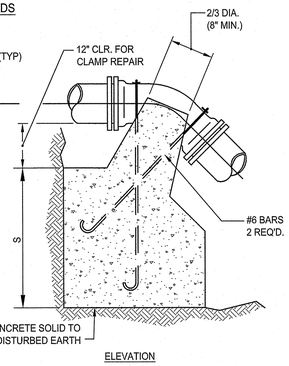


VERTICAL BENDS



TEES





CONC. ANCHORAGE

NOTES:

1. CONCRETE THRUST BLOCKS SHALL BEAR AGAINST UNDISTURBED EARTH. IN AREAS WHERE BEARINGS SOILS HAVE BEEN DISTURBED, RESTRAINED JOINTS SHALL BE USED.
2. ALL FORCE MAIN BENDS, TEES, MAIN TAPS, AND END CAPS SHALL REQUIRE A CONCRETE THRUST BLOCK.

TEES						
		PIPE SIZE-D (DIA.)				
		6"	8"	12"	16"	20"
	A	8"	10"	1'-0"	1'-3"	1'-6"
	B	8"	10"	1'-2"	1'-4"	1'-6"
	C	10"	1'-0"	1'-3"	1'-6"	1'-8"
	E	8"	10"	1'-2"	1'-6"	1'-10"

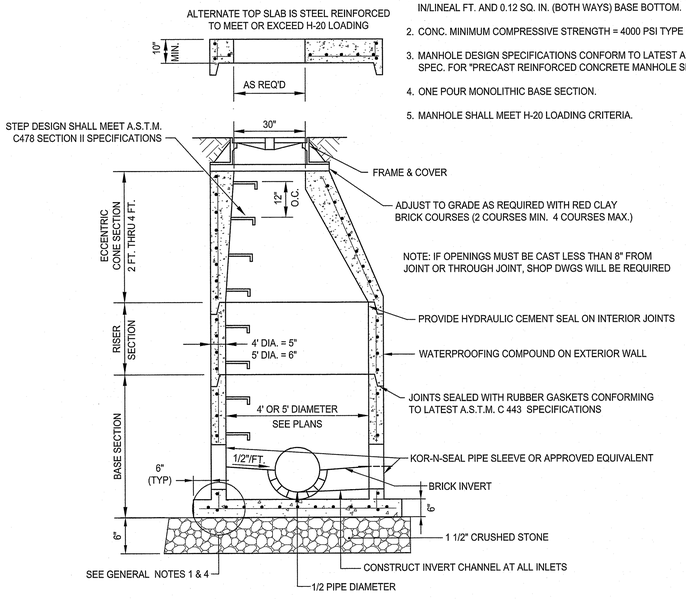
HORTIZONTAL BENDS						
BEND		PIPE SIZE-D (DIA.)				
		6"	8"	12"	16"	20"
1/8	X	1'-0"	1'-0"	1'-0"	1'-3"	1'-6"
	Y	1'-0"	1'-6"	2'-0"	2'-6"	3'-0"
	Z	8"	10"	1'-2"	1'-4"	1'-6"
1/16	X	1'-0"	1'-0"	1'-0"	1'-3"	1'-6"
	Y	1'-0"	1'-4"	1'-6"	1'-9"	2'-6"
	Z	8"	10"	1'-2"	1'-4"	1'-6"
1/32	X	1'-0"	1'-0"	1'-0"	1'-2"	1'-4"
	Y	1'-0"	1'-0"	1'-2"	1'-4"	1'-6"
	Z	8"	10"	1'-2"	1'-4"	1'-6"

VERTICAL BENDS						
BEND		PIPE SIZE-D (DIA.)				
		6"	8"	12"	16"	20"
1/8	L	1'-3"	1'-8"	2'-6"	3'-6"	4'-8"
	M	7"	8"	11"	1'-4"	1'-6"
	N	7"	8"	11"	1'-4"	1'-6"
1/16	L	9"	1'-0"	1'-9"	2'-6"	3'-0"
	M	7"	7"	10"	1'-0"	1'-2"
	N	7"	7"	8"	10"	1'-0"
1/32	L	6"	8"	1'-0"	1'-4"	1'-9"
	M	7"	7"	10"	1'-0"	1'-2"
	N	7"	7"	8"	10"	1'-0"

ANCHORAGES						
BEND		PIPE SIZE-D (DIA.)				
		6"	8"	12"	16"	20"
1/8	R	2'-6"	3'-0"	4'-6"	5'-4"	6'-0"
	S	2'-6"	2'-9"	3'-6"	2'-6"	5'-6"
	T	3'-0"	4'-0"	4'-9"	7'-0"	9'-6"
1/16	R	2'-0"	2'-6"	4'-0"	4'-6"	5'-0"
	S	1'-9"	2'-3"	2'-6"	3'-2"	3'-8"
	T	2'-6"	3'-4"	4'-0"	6'-0"	8'-6"
1/32	R	1'-6"	2'-0"	3'-0"	3'-8"	4'-3"
	S	1'-3"	1'-9"	2'-0"	2'-4"	2'-8"
	T	2'-0"	2'-6"	3'-0"	4'-6"	5'-9"

CONCRETE THRUST BLOCKS

NOT TO SCALE

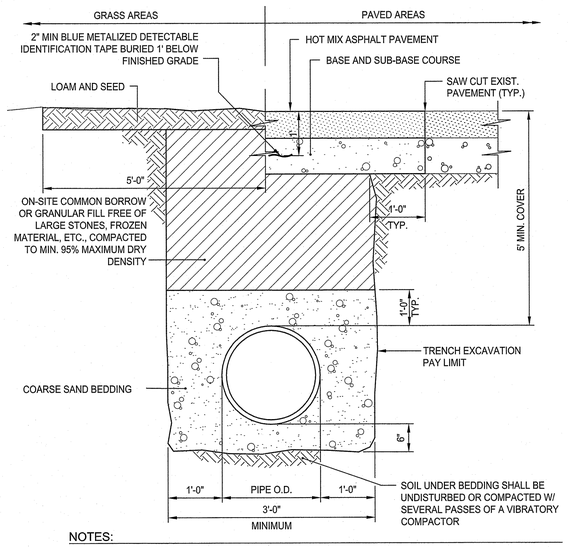


GENERAL NOTES:

1. REINFORCING STEEL CONFORMS TO LATEST A.S.T.M. A 185 SPEC. 0.12 SQ. IN/LINEAL FT. AND 0.12 SQ. IN. (BOTH WAYS) BASE BOTTOM.
2. CONC. MINIMUM COMPRESSIVE STRENGTH = 4000 PSI TYPE III CEMENT.
3. MANHOLE DESIGN SPECIFICATIONS CONFORM TO LATEST A.S.T.M. C 478 SPEC. FOR "PRECAST REINFORCED CONCRETE MANHOLE SECTIONS".
4. ONE POUR MONOLITHIC BASE SECTION.
5. MANHOLE SHALL MEET H-20 LOADING CRITERIA.

TYPICAL SEWER MANHOLE DETAIL

NOT TO SCALE

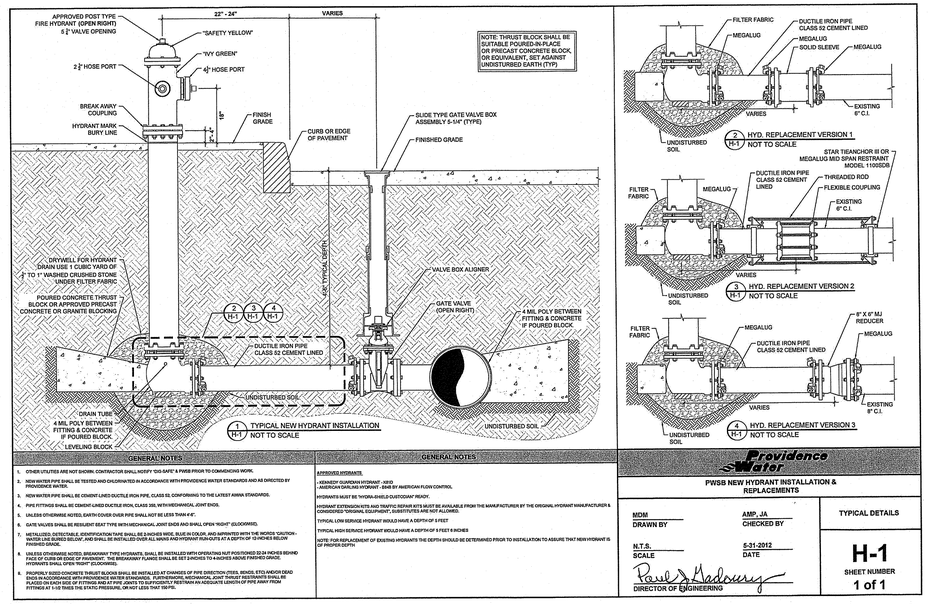


NOTES:

1. WHERE THE DISTANCE BETWEEN THE SAWCUT AND EDGE OF PAVEMENT IS 3' OR LESS, THE CONTRACTOR SHALL REPLACE THE PAVEMENT FROM THE TRENCH EDGE TO THE EXISTING EDGE OF PAVEMENT.
2. PIPE SHALL BE BEDDED IN 3/4-INCH CRUSHED STONE IF WITHIN GROUNDWATER.

TYPICAL WATER MAIN TRENCH DETAIL

NOT TO SCALE



GENERAL NOTES

1. OTHER UTILITIES ARE NOT SHOWN. CONTRACTOR SHALL NOTIFY "DIG-SAFE" & PWSB PRIOR TO COMMENCING WORK.
2. NEW WATER PIPE SHALL BE TESTED AND CHLORINATED IN ACCORDANCE WITH PROVIDENCE WATER STANDARDS AND AS DIRECTED BY PROVIDENCE WATER.
3. NEW WATER PIPE SHALL BE CEMENT-LINED DUCTILE IRON PIPE, CLASS 52, CONFORMING TO THE LATEST AWWA STANDARDS.
4. PIPE FITTINGS SHALL BE CEMENT LINED DUCTILE IRON, CLASS 350, WITH MECHANICAL JOINT ENDS.
5. UNLESS OTHERWISE NOTED, EARTH COVER OVER PIPE SHALL NOT BE LESS THAN 4'-6".
6. GATE VALVES SHALL BE RESILIENT SEAT TYPE WITH MECHANICAL JOINT ENDS AND SHALL OPEN "RIGHT" (CLOCKWISE).
7. METALLIZED, DETECTABLE, IDENTIFICATION TAPE SHALL BE 3 INCHES WIDE, BLUE IN COLOR, AND IMPRINTED WITH THE WORDS "CAUTION - WATER LINE BURIED BELOW", AND SHALL BE INSTALLED OVER ALL MAINS AND HYDRANT RUN-OUTS AT A DEPTH OF 12 INCHES BELOW FINISHED GRADE.
8. UNLESS OTHERWISE NOTED, BREAKAWAY TYPE HYDRANTS, SHALL BE INSTALLED WITH OPERATING NUT POSITIONED 52.24 INCHES BEHIND FACE OF CURB OR EDGE OF PAVEMENT. THE BREAKAWAY FLANGE SHALL BE SET 3/4INCHES TO 4 INCHES ABOVE FINISHED GRADE. HYDRANTS SHALL OPEN "RIGHT" (CLOCKWISE).
9. PROPERLY SIZED CONCRETE THRUST BLOCKS SHALL BE INSTALLED AT CHANGES OF PIPE DIRECTION (TEES, BENDS, ETC) AND/OR DEAD ENDS IN ACCORDANCE WITH PROVIDENCE WATER STANDARDS. FURTHERMORE, MECHANICAL JOINT THRUST RESTRAINTS SHALL BE PROVIDED IN SUCH SIZES AND NUMBERS AS REQUIRED, (BASED ON 150 PSI TEST PRESSURE) TO RESTRAIN AN ASSOLUTE LENGTH OF PIPE AWAY FROM FITTINGS AT 1-1/2 TIMES THE STATIC PRESSURE, OR NOT LESS THAT 500'FT.

Providence Water

PWSB NEW HYDRANT INSTALLATION & REPLACEMENTS

APPROVED HYDRANTS:
- KENNEDY GUARDIAN HYDRANT - 5ERD
- AMERICAN DARLING HYDRANT - B84B BY AMERICAN FLOW CONTROL

HYDRANTS MUST BE "KHOMA-SHIELD-CUATODIAN" READY.

HYDRANT EXTENSION KITS AND TRAFFIC REPAIR KITS MUST BE AVAILABLE FROM THE MANUFACTURER BY THE ORIGINAL HYDRANT MANUFACTURER & CONSIDERED "ORIGINAL EQUIPMENT". SUBSTITUTES ARE NOT ALLOWED.

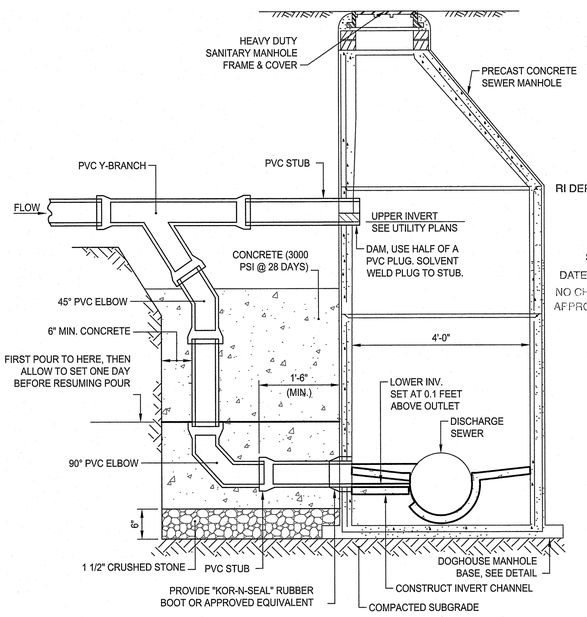
TYPICAL LOW SERVICE HYDRANT SHOULD HAVE A DEPTH OF 5 FEET

TYPICAL HIGH SERVICE HYDRANT WOULD HAVE A DEPTH OF 5 FEET 6 INCHES

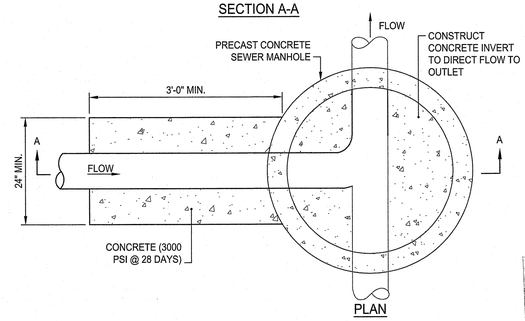
NOTE: FOR REPLACEMENT OF EXISTING HYDRANTS THE DEPTH SHOULD BE DETERMINED PRIOR TO INSTALLATION TO ASSURE THAT NEW HYDRANT IS OF PROPER DEPTH

MDM	AMP, JA	TYPICAL DETAILS
DRAWN BY	CHECKED BY	
N.T.S.	5-31-2012	H-1
SCALE	DATE	SHEET NUMBER 1 of 1

DIRECTOR OF ENGINEERING



SECTION A-A



OUTSIDE DROP MANHOLE DETAIL

NOT TO SCALE

RI Environmental Management
JAN 19 2024
Office of Water Resources

PARE

OWNER:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

APPLICANT:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
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SCALE ADJUSTMENT GUIDE
0" 1"
BAR IS ONE INCH ON ORIGINAL DRAWING

Johnston Elementary School
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AP 47, LOTS 8 & 9
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Johnston, RI

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: FEB 06 2024 FILE #: 23-0220
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

DAVID L. POTTER
No. 8665
01.05.24
REGISTERED
PROFESSIONAL ENGINEER
(CIVIL)

REVISIONS:

1	12-22-2023	RIDEM COMMENTS

PROJECT NO.:	21102.02
DATE:	OCTOBER 16, 2023
SCALE:	AS NOTED
DESIGNED BY:	KJM
CHECKED BY:	MBA
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:
DETAILS 6

DRAWING NO.:
C7.6

SHEET NO. 39 OF ___

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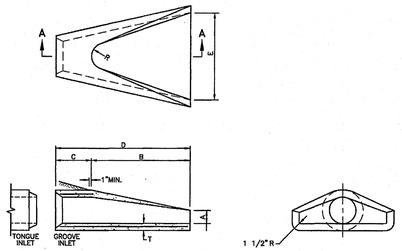


SECTION A–A

END ELEVATION

DIMENSIONS								REINFORCEMENT
DIA.	A	B	C	D	E	R	T	ONE LAYER REINFORCEMENT IN CENTER OF WALL: MIN. AREA OF EACH WAY (SQ. IN./FT.)
1'–0"	4"	2'–0"	4'–0 7/8"	6'–0 7/8"	2'–0"	9"	2"	0.048
1'–3"	6"	2'–3"	3'–10"	6'–1"	2'–6"	11"	2 1/4"	0.054
1'–6"	9"	2'–3"	3'–10"	6'–1"	3'–0"	12"	2 1/2"	0.060
2'–0"	9 1/2"	3'–7 1/2"	2'–8"	6'–1 1/2"	4'–0"	1'–2"	3"	0.072
2'–6"	1'–0"	4'–8"	1'–7 3/4"	6'–1 3/4"	5'–0"	1'–3"	3 1/2"	0.084
3'–0"	1'–3"	5'–3"	2'–10 3/4"	6'–1 3/4"	6'–0"	1'–8"	4"	0.096
3'–6"	1'–9"	5'–3"	2'–11"	8'–2"	6'–8"	1'–10"	4 1/2"	0.108
4'–0"	2'–0"	6'–0"	2'–2"	8'–2"	7'–0"	1'–10"	5"	0.120
4'–6"	2'–3"	5'–5"	2'–11"	8'–4"	7'–6"	2'–0"	5 1/2"	0.132
5'–0"	2'–6"	5'–0"	3'–3"	8'–3"	8'–0"	2'–0"	6"	0.144

NOTE:
SHALL BE IN ACCORDANCE WITH SECTION 701 OF THE R.I. STANDARD SPECIFICATIONS.

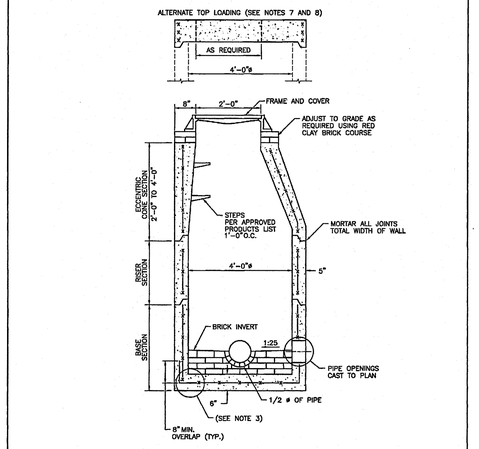
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

PRECAST CONCRETE FLARED END SECTION

R.I. STANDARD 2.3.0

REVISIONS: NO. | BY | DATE

Jean A. Cyr — CHIEF ENGINEER TRANSPORTATION
Edward P. Roberts Jr. — CHIEF DESIGN ENGINEER TRANSPORTATION
JUNE 15, 1998 ISSUE DATE



NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
2. CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED = 0.12 SQ. IN. / LIN. FT. MINIMUM.
3. STEEL REINFORCEMENT FOR BASE SECTION BOTTOM SHALL BE A MINIMUM OF 0.12 SQ. IN./LIN. FT. (BOTH WAYS).
4. ONE POUR MONOLITHIC BASE SECTION.
5. ANY NECESSARY ADJUSTMENTS DURING CONSTRUCTION WILL BE DONE BY SAW–CUTTING AND/OR CORING ONLY. NO JACKHAMMERS, HAMMERS AND CHISELS OR PNEUMATIC TOOLS WILL BE ALLOWED.
6. STEPS SHALL CONFORM TO STD. 5.3.0 AND SHALL BE INSTALLED AT THE CASTING PLANT.
7. ALTERNATE TOP SLAB IS STEEL REINFORCED TO MEET OR EXCEED H–25 LOADING (SEE STD. 4.7.2).
8. ALTERNATE TOP SLAB IS ONLY FOR USE WHEN REDUCING SECTION DOES NOT FIT BECAUSE OF STRUCTURE DEPTH.
9. REFER TO STD. 5.2.0 FOR MAXIMUM PIPE SIZES.

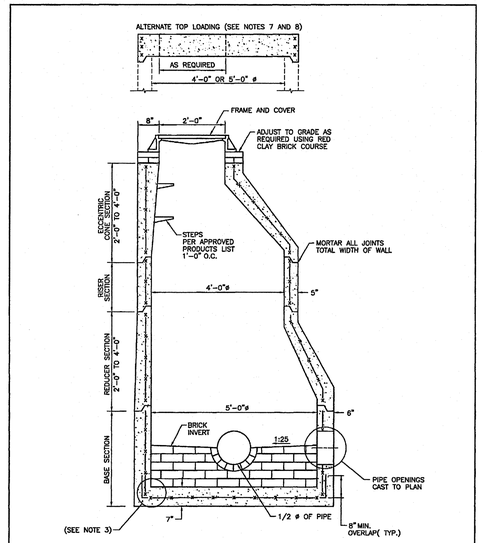
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

PRECAST 4'–0" ROUND MANHOLE

R.I. STANDARD 4.2.0

REVISIONS: NO. | BY | DATE

Jean A. Cyr — CHIEF ENGINEER TRANSPORTATION
Edward P. Roberts Jr. — CHIEF DESIGN ENGINEER TRANSPORTATION
JUNE 15, 1998 ISSUE DATE



NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
2. CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED = 0.15 SQ. IN./LIN. FT. MINIMUM.
3. STEEL REINFORCEMENT FOR BASE SECTION BOTTOM SHALL BE A MINIMUM OF 0.12 SQ. IN./LIN. FT. (BOTH WAYS).
4. ONE POUR MONOLITHIC BASE SECTION.
5. ANY NECESSARY ADJUSTMENTS DURING CONSTRUCTION WILL BE DONE BY SAW–CUTTING AND/OR CORING ONLY. NO JACKHAMMERS, HAMMERS AND CHISELS OR PNEUMATIC TOOLS WILL BE ALLOWED.
6. STEPS SHALL CONFORM TO STD. 5.3.0 AND SHALL BE INSTALLED AT THE CASTING PLANT.
7. ALTERNATE TOP SLAB IS STEEL REINFORCED TO MEET OR EXCEED H–25 LOADING (SEE STD. 4.7.2).
8. ALTERNATE TOP SLAB IS ONLY FOR USE WHEN REDUCING SECTION DOES NOT FIT BECAUSE OF STRUCTURE DEPTH.
9. REFER TO STD. 5.2.0 FOR MAXIMUM PIPE SIZES.

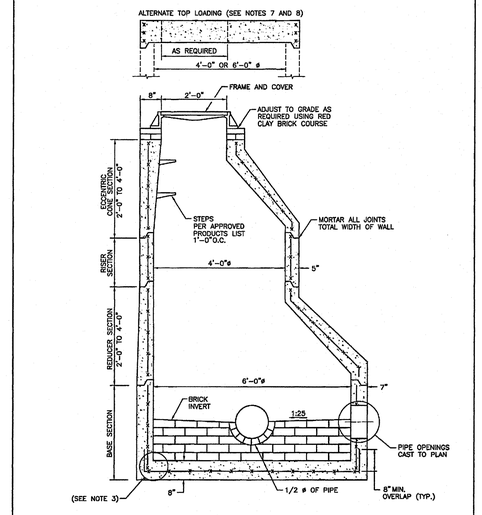
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

PRECAST 5'–0" ROUND MANHOLE

R.I. STANDARD 4.2.1

REVISIONS: NO. | BY | DATE

Jean A. Cyr — CHIEF ENGINEER TRANSPORTATION
Edward P. Roberts Jr. — CHIEF DESIGN ENGINEER TRANSPORTATION
JUNE 15, 1998 ISSUE DATE



NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
2. CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED = 0.15 SQ. IN./LIN. FT. MINIMUM.
3. STEEL REINFORCEMENT FOR BASE SECTION BOTTOM SHALL BE A MINIMUM OF 0.12 SQ. IN./LIN. FT. (BOTH WAYS).
4. ONE POUR MONOLITHIC BASE SECTION.
5. ANY NECESSARY ADJUSTMENTS DURING CONSTRUCTION WILL BE DONE BY SAW–CUTTING AND/OR CORING ONLY. NO JACKHAMMERS, HAMMERS AND CHISELS OR PNEUMATIC TOOLS WILL BE ALLOWED.
6. STEPS SHALL CONFORM TO STD. 5.3.0 AND SHALL BE INSTALLED AT THE CASTING PLANT.
7. ALTERNATE TOP SLAB IS STEEL REINFORCED TO MEET OR EXCEED H–25 LOADING (SEE STD. 4.7.2).
8. ALTERNATE TOP SLAB IS ONLY FOR USE WHEN REDUCING SECTION DOES NOT FIT BECAUSE OF STRUCTURE DEPTH.
9. REFER TO STD. 5.2.0 FOR MAXIMUM PIPE SIZES.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

PRECAST 6'–0" ROUND MANHOLE

R.I. STANDARD 4.2.2

REVISIONS: NO. | BY | DATE

Jean A. Cyr — CHIEF ENGINEER TRANSPORTATION
Edward P. Roberts Jr. — CHIEF DESIGN ENGINEER TRANSPORTATION
JUNE 15, 1998 ISSUE DATE

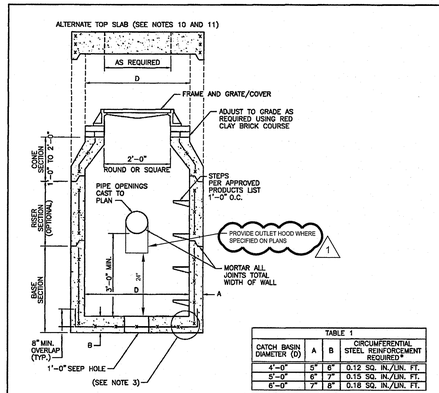
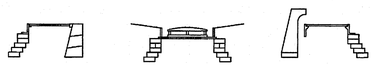


TABLE 1			
CATCH BASIN DIAMETER (D)	A	B	CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED*
4'–0"	5"	6"	0.12 SQ. IN./LIN. FT.
5'–0"	6"	7"	0.15 SQ. IN./LIN. FT.
6'–0"	7"	8"	0.18 SQ. IN./LIN. FT.

* FOR LONGITUDINAL (VERTICAL STANDING) REINFORCEMENT REFER TO ASTM C478, ITEM 8.1.2



TYPE CATCH BASIN AS REQUIRED

NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
2. SEE TABLE 1 FOR STEEL REINFORCEMENT REQUIREMENTS.
3. STEEL REINFORCEMENT FOR BASE SECTION BOTTOM SHALL BE A MINIMUM OF 0.12 SQ. IN./LIN. FT. (BOTH WAYS).
4. STEPS SHALL CONFORM TO STD. 5.3.0 AND SHALL BE INSTALLED AT THE CASTING PLANT.
5. ONE POUR MONOLITHIC BASE SECTION.
6. ANY NECESSARY ADJUSTMENTS DURING CONSTRUCTION WILL BE DONE BY SAW–CUTTING AND/OR CORING ONLY. NO JACKHAMMERS, HAMMERS AND CHISELS OR PNEUMATIC TOOLS WILL BE ALLOWED.
7. CORBEL MADE OF RED CLAY BRICK WILL BE PERMITTED FOR THE "CONE SECTION" OF THE 4'–0" CATCH BASIN ONLY.
8. FOR CATCH BASIN TYPES "D" AND "T" STEPS MUST BE INSTALLED ON THE CURB SIDE OF THE STRUCTURE.
9. THE CENTERLINE OF THE OPENING MUST BE WITHIN 2'–0" FROM THE STEPS.
10. ALTERNATE TOP SLAB IS STEEL REINFORCED TO MEET OR EXCEED H–25 LOADING (SEE STD. 4.7.2).
11. ALTERNATE TOP SLAB IS ONLY FOR USE WHEN REDUCING SECTION DOES NOT FIT BECAUSE OF STRUCTURE DEPTH.
12. REFER TO STD. 5.2.0 FOR MAXIMUM PIPE SIZES.
13. PROVIDE SQUARE CATCH BASIN FRAME & GRATE ON ALL CATCH BASINS.

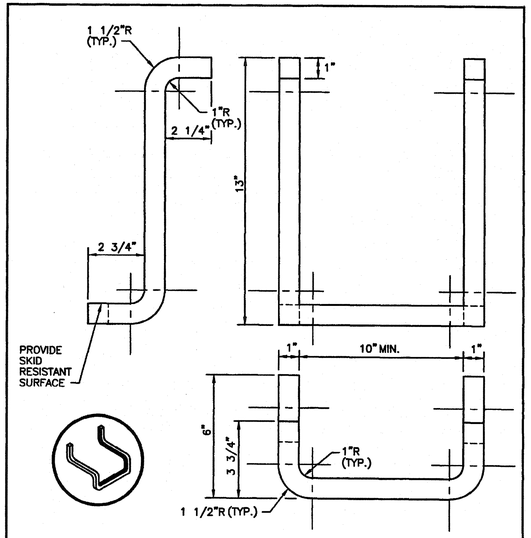
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

PRECAST 4'–0", 5'–0", OR 6'–0" ROUND CATCH BASIN

R.I. STANDARD 4.4.0M

REVISIONS: NO. | BY | DATE

Jean A. Cyr — CHIEF ENGINEER TRANSPORTATION
Edward P. Roberts Jr. — CHIEF DESIGN ENGINEER TRANSPORTATION
JUNE 15, 1998 ISSUE DATE



NOTES:
1. STEPS SHALL CONFORM TO SECTION M.04 OF THE R.I. STANDARD SPECIFICATIONS.
2. CROSS SECTION AREA MAY BE REDUCED UPON SUBMISSION OF CERTIFIED LOAD TESTS. STEPS MUST SUPPORT 300 LBS.
3. STOCK SHOWN IS 1" SQUARE WHICH MAY BE REPLACED BY 1" DIAMETER.

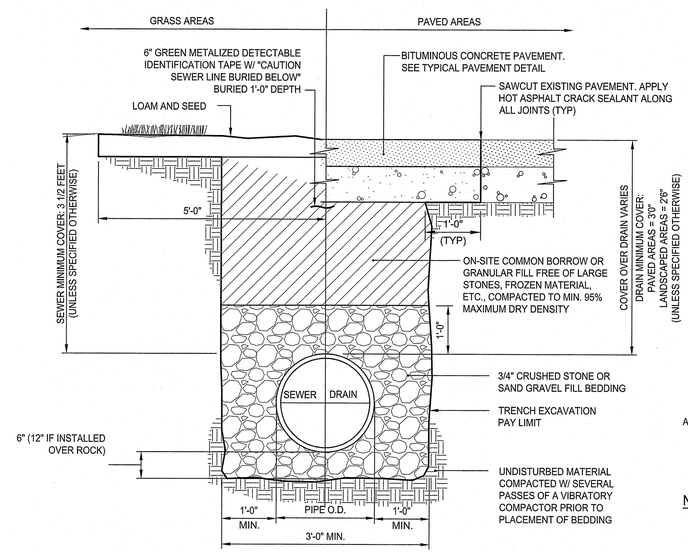
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

CATCH BASIN AND MANHOLE STEP

R.I. STANDARD 5.3.0

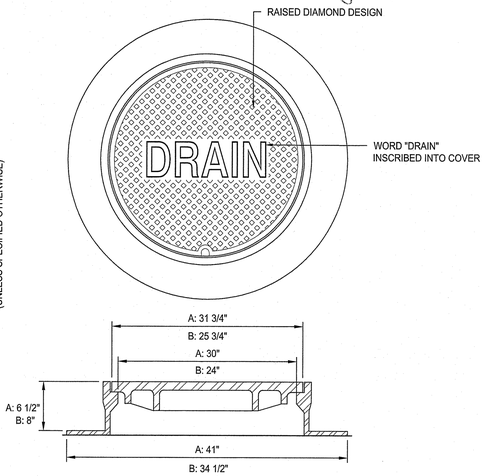
REVISIONS: NO. | BY | DATE

Jean A. Cyr — CHIEF ENGINEER TRANSPORTATION
Edward P. Roberts Jr. — CHIEF DESIGN ENGINEER TRANSPORTATION
JUNE 15, 1998 ISSUE DATE



NOTES:
1. WHERE THE DISTANCE BETWEEN THE SAWCUT AND EDGE OF PAVEMENT IS 3' OR LESS, THE CONTRACTOR SHALL REPLACE THE PAVEMENT FROM THE TRENCH EDGE TO THE EXISTING EDGE OF PAVEMENT.
2. 3/4" DIA. CRUSHED STONE SHALL BE USED AS BEDDING WHERE TRENCH IS BELOW THE GROUND WATER TABLE.

GRAVITY SEWER/DRAIN TRENCH DETAIL
NOT TO SCALE



NOTES:
1. ALL FRAMES AND COVERS SHALL MEET H-20 LOADING CRITERIA.
2. PROVIDE:
   A: 30" DIA. DRAIN MANHOLE FRAME AND COVER SHALL BE NEENAH FOUNDRY, INC. MODEL #R-1557 OR APPROVED EQUIVALENT.
   B: 24" DIA. DRAIN MANHOLE FRAME AND COVER SHALL BE NEENAH FOUNDRY, INC. MODEL #R-1556 OR APPROVED EQUIVALENT.
3. ALL DRAIN MANHOLES SHALL HAVE 24" DIA. DRAIN MANHOLE COVER UNLESS NOTED OTHERWISE.

DRAIN MANHOLE FRAME & COVER
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: FEB 06 2024 FILE #: 23-0200
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

RI Environmental Management
JAN 29 2024
OFFICE OF WATER RESOURCES

PARE

OWNER:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

APPLICANT:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

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

Johnston Elementary School
Johnston Public Schools
AP 47, LOTS 8 & 9
Atwood Ave
Johnston, RI

DAVID L. POTTER
No. 8665
REGISTERED PROFESSIONAL ENGINEER
(CIVIL)
01.05.24

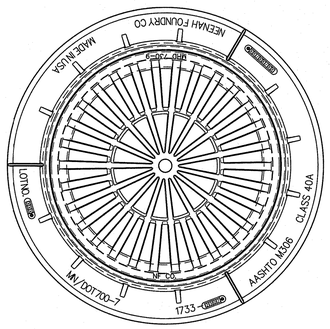
REVISIONS:		
1	12-22-2023	RIDEM COMMENTS

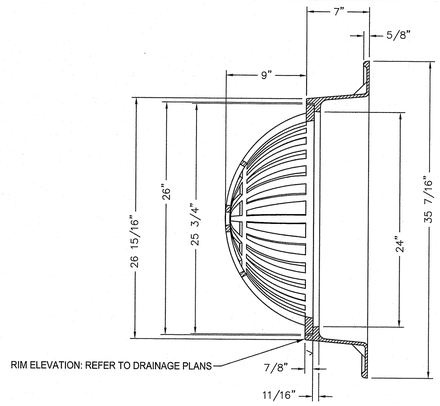
PROJECT NO.:	21102.02
DATE:	OCTOBER 16, 2023
SCALE:	AS NOTED
DESIGNED BY:	KJM
CHECKED BY:	MBA
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:
DETAILS 7

DRAWING NO.:
C7.7
SHEET NO. 40 OF

Z:\JOBS\21102.02 Johnston- JES Stage III - RI\DWGS\Details.dwg

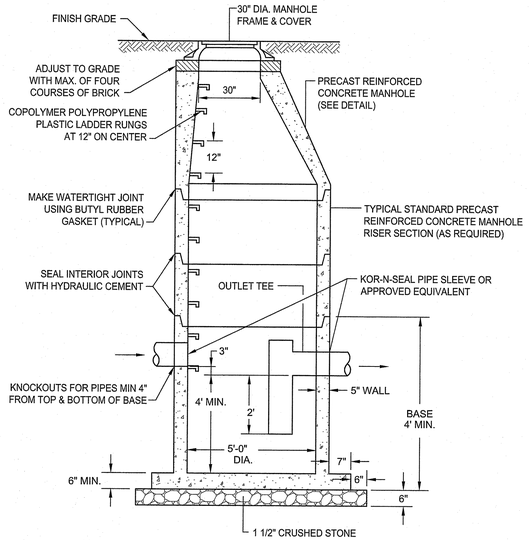




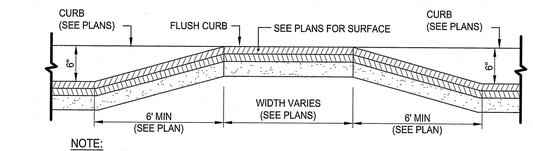
NOTES:

1. NEENA FOUNDRY R2561 OR APPROVED EQUIVALENT.
2. FRAME AND GRATE SHALL MEET H-20 LOADING CRITERIA.
3. REINFORCING STEEL CONFORMS TO LATEST A.S.T.M. A 185 SPEC. 0.12 SQ. IN/LINEAL FT. AND 0.12 SQ. IN. (BOTH WAYS) BASE BOTTOM
4. CONC. MINIMUM COMPRESSIVE STRENGTH = 4000 PSI TYPE III CEMENT.
5. MANHOLE DESIGN SPECIFICATIONS CONFORM TO LATEST A.S.T.M. C 478 SPEC. FOR "PRECAST REINFORCED CONCRETE MANHOLE SECTIONS".
6. PROVIDE ONE POUR 6" THICK REINFORCED MONOLITHIC BASE SECTION.
7. MANHOLE SHALL MEET H-20 LOADING CRITERIA.
8. ALL LIFTING HOLES TO BE PLUGGED IN AND OUT WITH HYDRAULIC CEMENT
9. MANHOLES SHALL HAVE 6" THICK WALLS.

DOME GRATE DETAIL
NOT TO SCALE

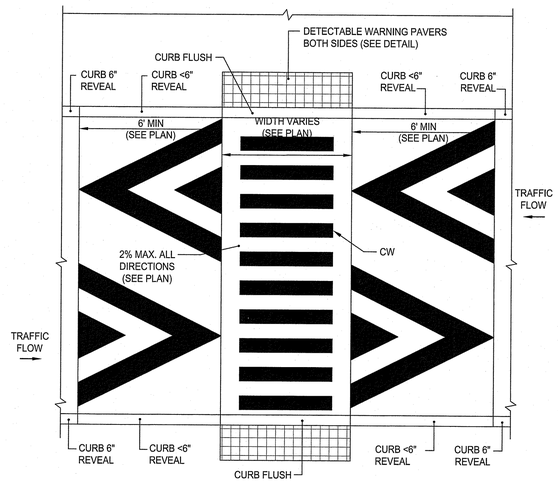


PRECAST CONCRETE OIL WATER SEPARATOR (OWS)
NOT TO SCALE

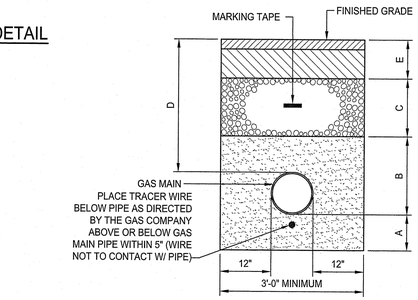


NOTE:
SPEED BUMP TO BE PAINTED WITH WHITE EPOXY RESIN PAVEMENT MARKING

SPEED TABLE SECTION DETAIL
NOT TO SCALE

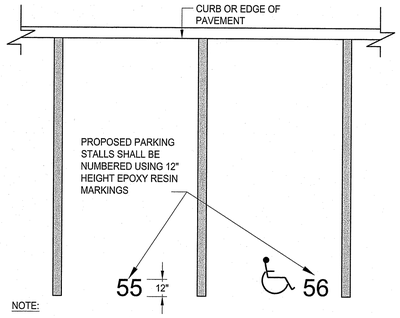


SPEED TABLE PLAN DETAIL
NOT TO SCALE



NOTE:
THIS DETAIL REPRESENTS A TYPICAL GAS TRENCH DETAIL. FINAL TRENCH MATERIALS AND DIMENSIONS SHALL BE COORDINATED WITH THE GAS COMPANY.

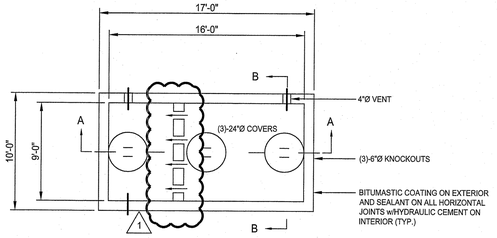
TYPICAL GAS MAIN TRENCH DETAIL
NOT TO SCALE



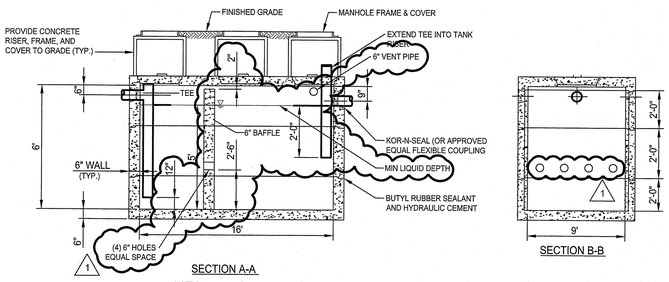
NOTE:

1. NUMBERING SHALL INCLUDE STRIPING OF 200 SPACES WITH NUMBERS 1 THROUGH 200. FINAL NUMBER LOCATION AND SEQUENCE TO BE COORDINATED WITH THE OWNER PRIOR TO COMMENCEMENT OF THE PAVEMENT MARKING WORK.
2. 10 VISITORS SPACES SHALL BE MARKED WITH THE WORD "VISITOR" IN 12" LETTERING.
3. PARKING NUMBERING AND LETTERS SHALL BE CENTERED IN THE STALL AND ALIGNED WITH THE END OF THE STALL STRIPING.
4. ALL PARKING PAVEMENT MARKINGS SHALL BE EPOXY RESIN CONFORMING TO THE SPECIFICATION, COORDINATE COLOR OF NUMBERS WITH THE OWNER.

TYPICAL SPACE NUMBERING DETAIL
NOT TO SCALE



PLAN

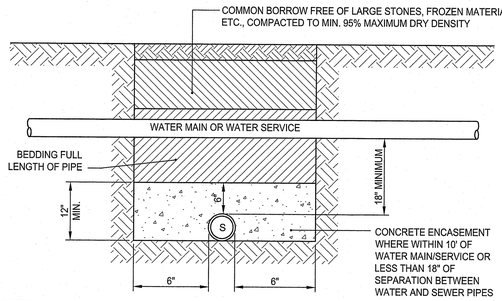


SECTION A-A

SECTION B-B

NOTES:
1. REINFORCING STEEL CONFORMS TO LATEST A.S.T.M. A 185 SPEC. 0.12 SQ. IN/LINEAL FT. AND 0.12 SQ. IN. (BOTH WAYS) BASE BOTTOM.
2. CONC. MINIMUM COMPRESSIVE STRENGTH = 4000 PSI TYPE III CEMENT.
3. MANHOLE RISER DESIGN SPECIFICATIONS CONFORM TO LATEST A.S.T.M. C 478 SPEC. FOR "PRECAST REINFORCED CONCRETE MANHOLE SECTIONS".
4. ONE POUR MONOLITHIC BASE SECTION.
5. MANHOLE RISER SHALL MEET H-25 LOADING CRITERIA.

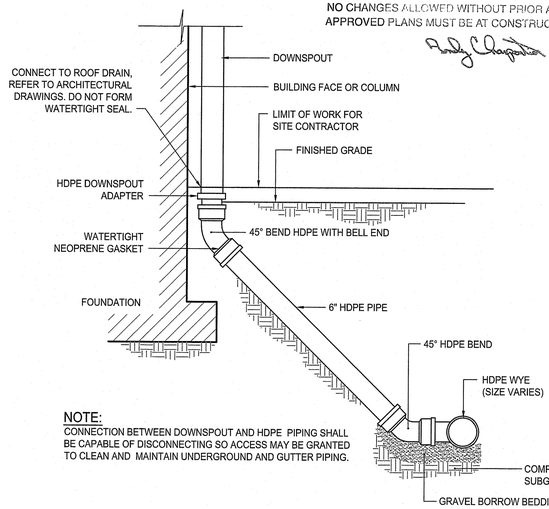
5,000 GALLON GREASE TRAP DETAIL
NOT TO SCALE



NOTES:

1. THE VERTICAL SEPARATION BETWEEN THE WATER MAIN/SERVICE AND THE PROPOSED SEWER MAIN/SERVICE SHALL BE A MINIMUM OF 18 INCHES.
2. THE HORIZONTAL SEPARATION BETWEEN THE WATER MAIN AND THE PROPOSED UTILITY SHALL BE A MINIMUM OF 10 FEET.
3. IF 1 OR 2 CANNOT BE MAINTAINED THE PROPOSED SEWER MAIN/SERVICE SHALL BE INSTALLED WITHIN A CARRIER PIPE OR ENCASED IN CONCRETE.
4. IF SEWER MAIN AND SERVICES CROSS OVER THE TOP OF WATER MAIN, INSTALL SEWER MAIN/SERVICE WITHIN A CARRIER PIPE. MINIMUM VERTICAL SEPARATION OF 18" SHALL BE PROVIDED.

SEWER AND WATER LINE CROSSINGS
NOT TO SCALE



NOTE:
CONNECTION BETWEEN DOWNSPOUT AND HDPE PIPING SHALL BE CAPABLE OF DISCONNECTING SO ACCESS MAY BE GRANTED TO CLEAN AND MAINTAIN UNDERGROUND AND GUTTER PIPING.

DOWNSPOUT DETAIL
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: FEB 06 2024 FILE #: 23-0222
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

RI Environmental Management
JAN 19 2024
Office of Water Resources

PARE

OWNER:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

APPLICANT:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
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SCALE ADJUSTMENT GUIDE
0" 1"
BAR IS ONE INCH ON ORIGINAL DRAWING

Johnston Elementary School
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AP 47, LOTS 8 & 9
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Johnston, RI

DAVID L. POTTER
No. 8665
01.05.24
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:		
1	12-22-2023	RIDEM COMMENTS

PROJECT NO.:	21102.02
DATE:	OCTOBER 16, 2023
SCALE:	AS NOTED
DESIGNED BY:	KJM
CHECKED BY:	MBA
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:
DETAILS 8

DRAWING NO.:
C7.8
SHEET NO. 41 OF ___

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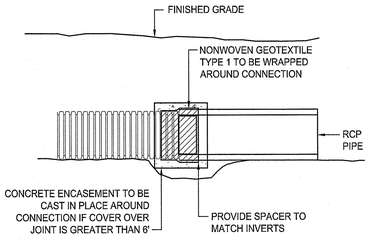
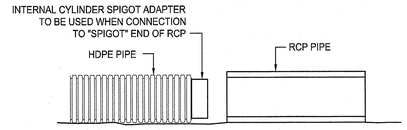
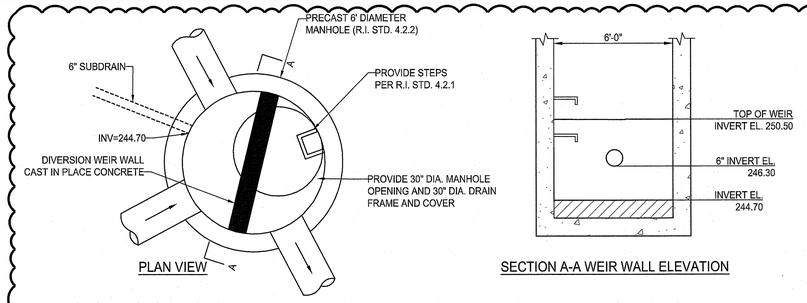




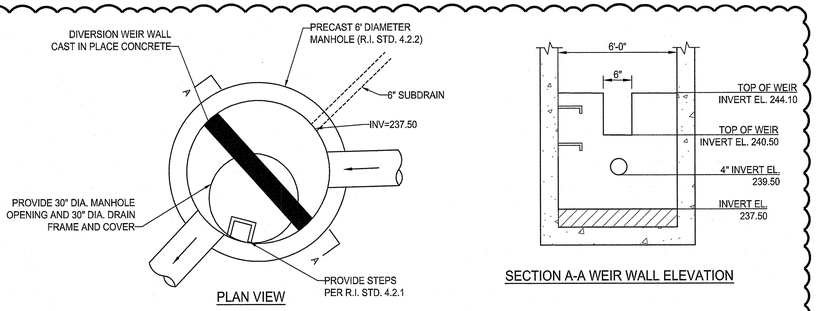
NOTES:

1. INTERNAL CYLINDER ADAPTER TO BE WELDED TO HDPE, OUTSIDE DIAMETER TO BE INSERTED INTO INSIDE DIAMETER OF CONCRETE PIPE.
2. NON-WOVEN GEOTEXTILE TO BE WRAPPED AROUND CONNECTION WITH FULL SEAM OVERLAP TO PROVIDE FULL PROTECTION FROM SOIL INTRUSION.
3. CONNECTION TO BE MADE IN ACCORDANCE WITH PIPE MANUFACTURER'S REQUIREMENTS.
4. INTERNAL CYLINDER SPIGOT ADAPTER NOT REQUIRED IF HDPE IS CONNECTION TO "BELL" END OF RCP.

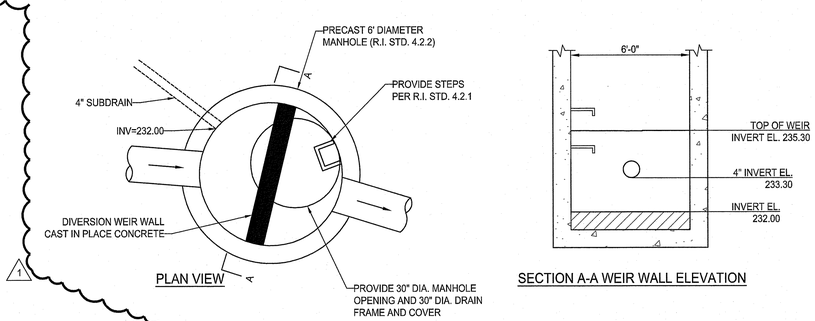
HDPE/RCP PIPE JOINT
NOT TO SCALE



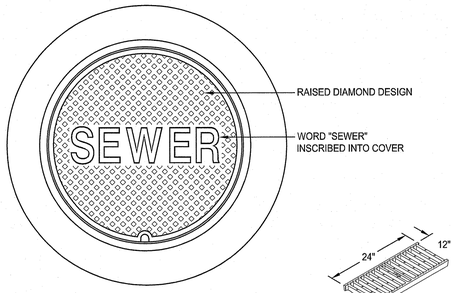
OUTLET CONTROL STRUCTURE (OCS-01)
NOT TO SCALE

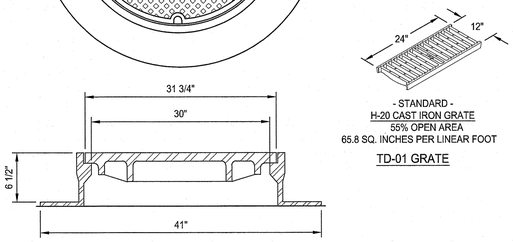


OUTLET CONTROL STRUCTURE (OCS-02)
NOT TO SCALE



OUTLET CONTROL STRUCTURE (OCS-03)
NOT TO SCALE





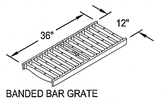
NOTES:

1. NEENAH FOUNDRY, INC. MODEL #R-1557 OR APPROVED EQUIVALENT.
2. COVER SHALL MEET H-20 LOADING CRITERIA.

SANITARY MANHOLE FRAME & COVER
NOT TO SCALE

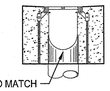
- STANDARD -
H-20 CAST IRON GRATE
55% OPEN AREA
65.8 SQ. INCHES PER LINEAR FOOT

TD-01 GRATE



BANDED BAR GRATE
H-20 STEEL, SHOP BLACK
67.5% OPEN AREA
97.3 SQ. INCHES PER LINEAR FOOT
ADA COMPLIANT

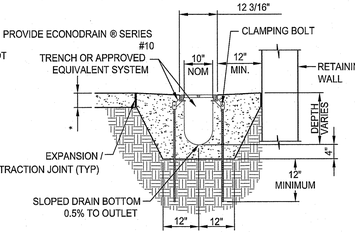
TD-02 GRATE



CUT OUTLET PIPE TO MATCH PROFILE OF TRENCH DRAIN

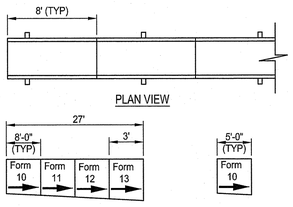
OUTLET FROM END OF TRENCH

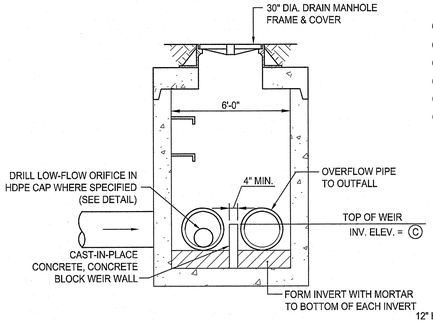
CONSTRUCTION NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
2. SECURE OUTLET PIPE PRIOR TO CONCRETING OPERATIONS.
3. TRENCH DRAIN AND GRATE SHALL BE RATED TO WITHSTAND H-20 LOADING CRITERIA.



10" TRENCH DRAIN DETAIL
NOT TO SCALE

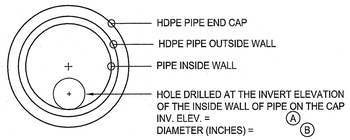
SHALLOW EPS FORMS		
EPS FORM	DEPTH MIN	DEPTH MAX
10	8"	8 1/2"
11	8 1/2"	9"
12	9"	9 1/2"
13	9 1/2"	10"



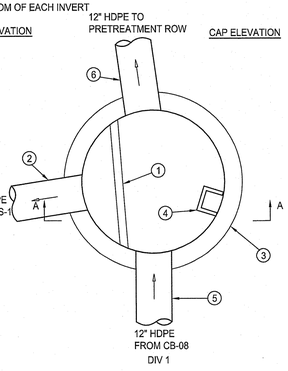


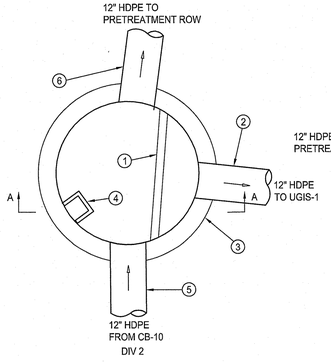
TYPICAL NOTES LEGEND

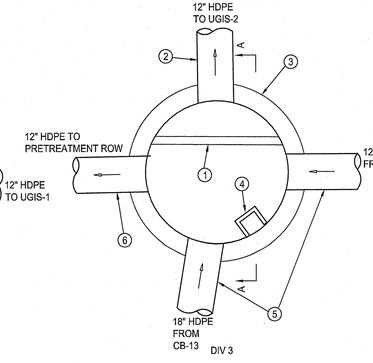
1. CAST IN PLACE CONCRETE DIVERSION WEIR WALL (4" WIDE)
2. OVERFLOW PIPE TO OUTFALL
3. PRECAST 6' DIAMETER MANHOLE (RIDOT STANDARD 4.2.2)
4. PROVIDE STEPS PER RIDOT STANDARD 4.2.1
5. PIPE IN
6. HDPE PIPE WITH CAP AND LOW FLOW WATER QUALITY ORIFICE (REFER TO CAP DETAIL) TO STORMWATER MANAGEMENT AREA

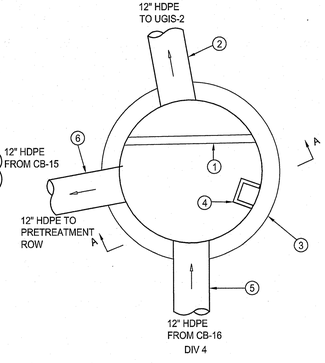


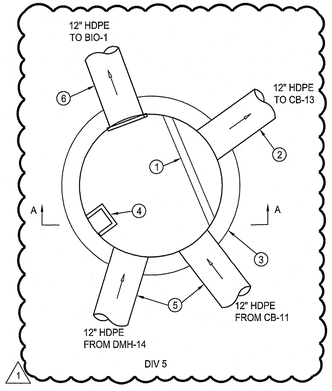
	A	B	C
DIV-01	245.70	N/A	246.70
DIV-02	245.70	N/A	246.70
DIV-03	238.50	N/A	239.00
DIV-04	238.50	N/A	239.00
DIV-05	247.20	6"	247.70











TYPICAL DIVERSION MANHOLE DETAIL
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: FEB 06 2024 FILE #: 23-0290
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

RECEIVED JAN 12 2024 Office of Water Resources

PARE

OWNER:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

APPLICANT:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

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

Johnston Elementary School
Johnston Public Schools
AP 47, LOTS 8 & 9
Atwood Ave
Johnston, RI

DAVID L. POTTER
No. 8665
01.05.24
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:

1	12-22-2023	RIDEM COMMENTS

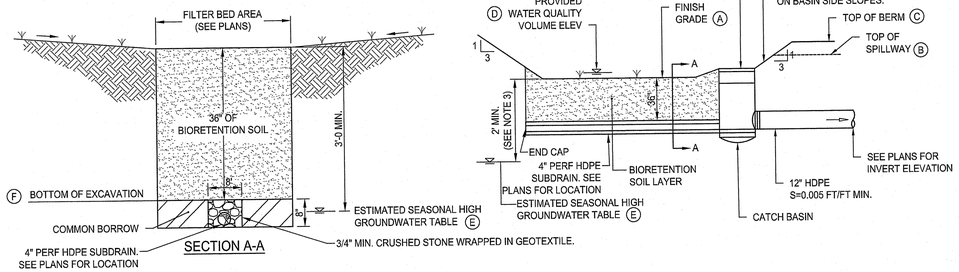
PROJECT NO.:	21102.02
DATE:	OCTOBER 16, 2023
SCALE:	AS NOTED
DESIGNED BY:	KJM
CHECKED BY:	MBA
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:
DETAILS 9

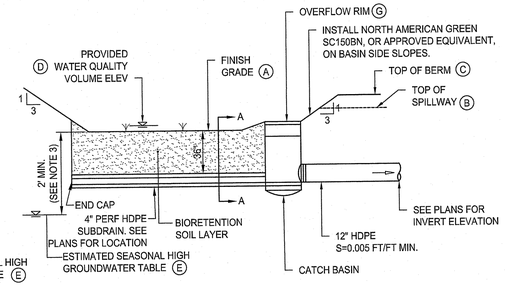
DRAWING NO.:
C7.9

SHEET NO. 42 OF ____

Z:\JOBS\27 - Jobs\21102.02 Johnston - JES Stage III - RI\DWGS\Details.dwg



SECTION A-A



BIO	1
A FINISH GRADE	247.00
B TOP OF SPILLWAY	248.00
C TOP OF BERM	249.00
D PROVIDED WQV	247.50
E ESTIMATED SEASONAL HIGH GROUNDWATER TABLE	241.83*
F BOTTOM OF EXCAVATION	244.00
G OVERFLOW RIM	247.50

* INTERPOLATED USING DEPTH OF GROUNDWATER FROM EXISTING GRADE OF TP21-7

1

BIORETENTION SOIL: 85-88% SAND, 8-12% SILT, 3-5% COMPOST ORGANIC CONTENT SHALL BE 1.5%-3%

NOTES:

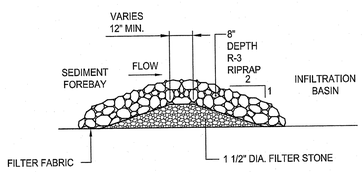
1. ESHGT WAS DETERMINED BY FROM TEST PIT DATA PERFORMED ON MARCH 22, 2023.

BIORETENTION DETAIL

NOT TO SCALE

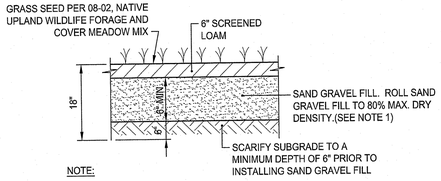
BIO 1 TP21-7	
EX Grade=230.00	
Sandy Loam	0-9"
Sandy Loam	9-19"
Estimated Seasonal High Groundwater Table=38" Elev=226.83	
Sandy Loam	19-86"
Infil. Rate = 1.02 in/hr	
Bottom of Test Pit=86" Elev=222.83	

1



SEDIMENT FOREBAY CHECK DAM

NOT TO SCALE

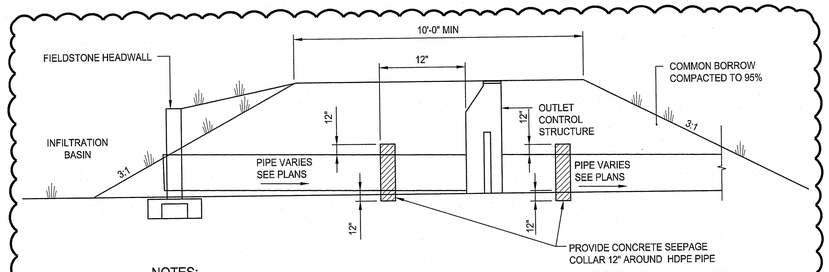


NOTE:

1. IF SOIL IN THE QPA HAS BEEN COMPACTED, THE SOIL MUST BE SUITABLY AMENDED, TILLED, AND RE-VEGETATED ONCE CONSTRUCTION IS COMPLETE.

QUALIFYING PERVIOUS AREA DETAIL

NOT TO SCALE



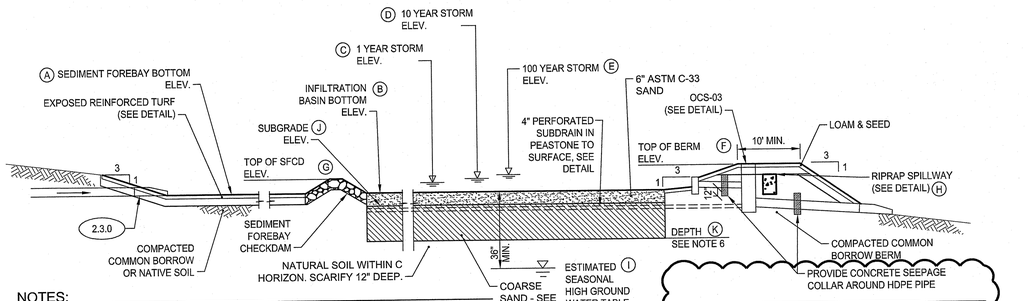
NOTES:

1. INFILTRATION BASIN BERM SHALL BE CONSTRUCTED WITH COMMON BORROW PLACED IN 12" LIFTS AND COMPACTED TO 95% TO FINISH GRADE.
2. REMOVE ALL EXISTING TOPSOIL AND ORGANIC MATERIAL PRIOR TO CONSTRUCTING INFILTRATION BASIN BERM.
3. COMMON BORROW SHALL EXTEND A MINIMUM OF 12" BELOW INFILTRATION BASIN BOTTOM.

INFILTRATION BASIN BERM SECTION AT OUTLET

NOT TO SCALE

1



NOTES:

1. DO NOT COMPACT OR RUN HEAVY MACHINERY WITHIN BASIN.
2. ONCE CONTRACTOR HAS SUBGRADE EXPOSED, THE ENGINEER SHALL BE CONTACTED FOR OBSERVATION.
3. INFILTRATION BASIN SHALL BE SCARIFIED 12" DEEP PRIOR TO PLACEMENT OF SAND LAYER.
4. RUNOFF SHALL NOT BE DIRECTED INTO THE BASIN UNTIL THE VEGETATION ON THE SIDE SLOPES HAS ESTABLISHED AND ALL UPSTREAM AREAS ARE STABILIZED.
5. BASIN BERM SHALL BE CONSTRUCTED WITH COMMON BORROW PLACED IN 12" LIFTS AND COMPACTED TO 95% TO FINISH GRADE. REMOVE ALL EXISTING TOPSOIL AND ORGANIC MATERIAL PRIOR TO CONSTRUCTION OF BASIN BERM. COMMON BORROW SHALL EXTEND 12" BELOW BASIN BOTTOM.
6. CONTRACTOR SHALL EXCAVATE ACROSS THE BASIN BOTTOM AS REQUIRED TO FULLY REMOVE THE 'A' AND 'B'-HORIZON SOILS. ASTM C-33 SAND SHALL BE PLACED TO PROPOSED SUBGRADE.

INFILTRATION BASIN SECTION

NOT TO SCALE

	1
A SEDIMENT FOREBAY BOTTOM ELEV	232.00
B INFILTRATION BASIN BOTTOM ELEV	232.00
C 1 YEAR STORM ELEV	234.30
D 10 YEAR STORM ELEV	235.62
E 100 YEAR STORM ELEV	236.09
F TOP OF BERM ELEV	237.10
G TOP OF SFCD ELEV	236.00
H RIPRAP SPILLWAY	236.10
I ESTIMATED SEASONAL HIGH GROUND WATER TABLE	228.00*
J SUBGRADE ELEV	231.50
K DEPTH OF EXCAVATION FROM EXISTING GRADE	45"

* INTERPOLATED USING DEPTH OF GROUNDWATER FROM EXISTING GRADE OF TP23-6

1

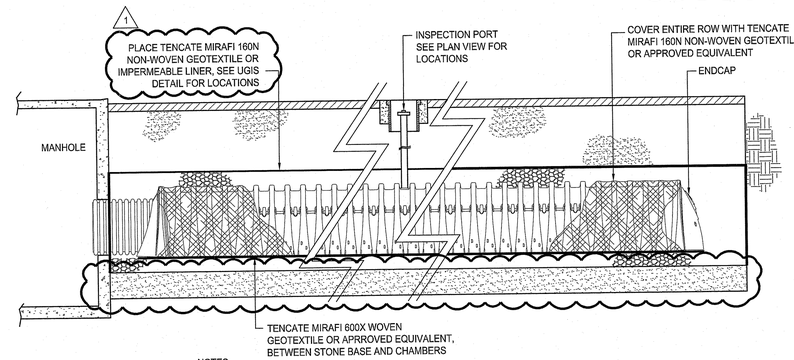
TP23-6	
EX Grade=244.00	
Sandy Loam	0-14"
Sandy Loam	14-28"
Sandy Loam	28-112"
Infil. Rate = 1.02 in/hr	
Bottom of Test Pit=112" Elev=234.67	

A - Horizon: To Be Removed

B - Horizon: To Be Removed

INFILTRATION BASIN SUBDRAIN DETAIL

NOT TO SCALE

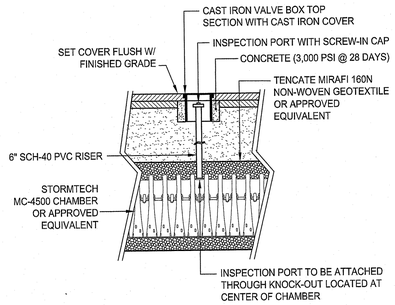


NOTES:

PRETREATMENT ROW CONSTRUCTION IS THE SAME AS OTHER ROWS WITH THE EXCEPTION OF THE WOVEN AND NON-WOVEN GEOTEXTILES BEING PLACED BENEATH AND AROUND THE ROW RESPECTIVELY.

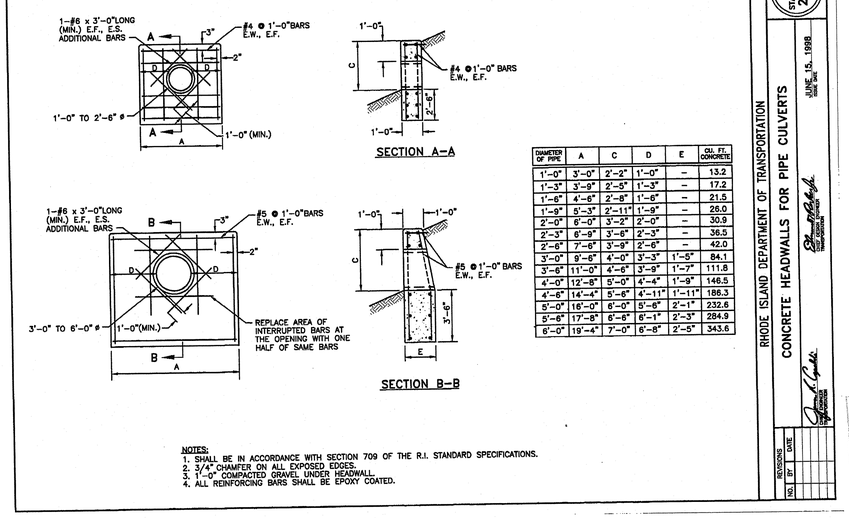
PRETREATMENT ROW DETAIL

NOT TO SCALE



INSPECTION PORT DETAIL

NOT TO SCALE



DIAMETER OF PIPE	A	C	D	E	CU. FT. CONCRETE
1'-0"	3'-0"	2'-2"	1'-0"	–	13.2
1'-3"	3'-9"	2'-5"	1'-3"	–	17.2
1'-6"	4'-6"	2'-8"	1'-6"	–	21.5
1'-9"	5'-3"	2'-11"	1'-9"	–	26.0
2'-0"	6'-0"	3'-2"	2'-0"	–	30.9
2'-3"	6'-9"	3'-6"	2'-3"	–	36.5
2'-6"	7'-6"	3'-9"	2'-6"	–	42.0
3'-0"	9'-6"	4'-0"	3'-3"	1'-5"	84.1
3'-6"	11'-0"	4'-6"	3'-9"	1'-7"	111.8
4'-0"	12'-6"	5'-0"	4'-4"	1'-9"	146.5
4'-6"	14'-4"	5'-6"	4'-11"	1'-11"	186.3
5'-0"	16'-0"	6'-0"	5'-6"	2'-1"	232.6
5'-6"	17'-8"	6'-6"	6'-1"	2'-3"	284.9
6'-0"	19'-4"	7'-0"	6'-8"	2'-5"	343.6

NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 709 OF THE R.I. STANDARD SPECIFICATIONS.
2. 3/4" CHAMFER ON ALL EXPOSED EDGES.
3. 1'-0" COMPACTED GRAVEL UNDER HEADWALL.
4. ALL REINFORCING BARS SHALL BE EPOXY COATED.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
CONCRETE HEADWALLS FOR PIPE CULVERTS
R.I. STANDARD 2.1.0
JUNE 15, 1998
SUPERSEDES M.P. 2.1.0 DATED JUNE 1992
Stephen K. Cyr
CHIEF ENGINEER
Joseph A. Cipolla
DIRECTOR OF PUBLIC WORKS

REVISIONS
NO. BY DATE

PARE

OWNER:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

APPLICANT:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

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

Johnston Elementary School
Johnston Public Schools
AP 47, LOTS 8 & 9
Atwood Ave
Johnston, RI

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: FEB 06 2024 FILE #: 23-0229
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

DAVID L. POTTER
No. 8665
01.05.24
REGISTERED
PROFESSIONAL ENGINEER
CIVIL

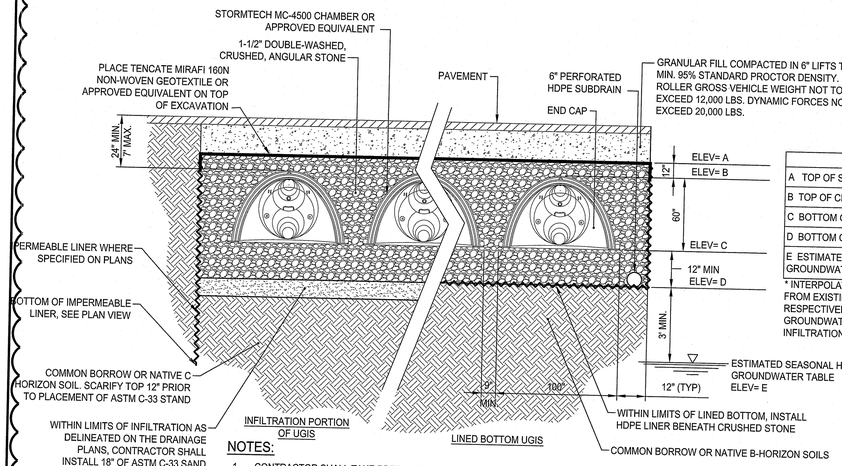
REVISIONS:

1	12-22-2023	RIDEM COMMENTS

PROJECT NO.: 21102.02
DATE: OCTOBER 16, 2023
SCALE: AS NOTED
DESIGNED BY: KJM
CHECKED BY: MBA
DRAWN BY: AKL
APPROVED BY: DLP
DRAWING TITLE:
DETAILS 10
DRAWING NO.:
C7.10
SHEET NO. 43 OF ___

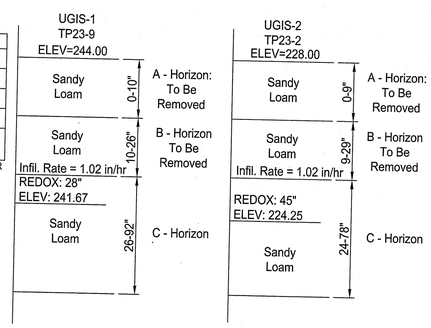
RECEIVED
JAN 11 2024
OFFICE OF WATER RESOURCES

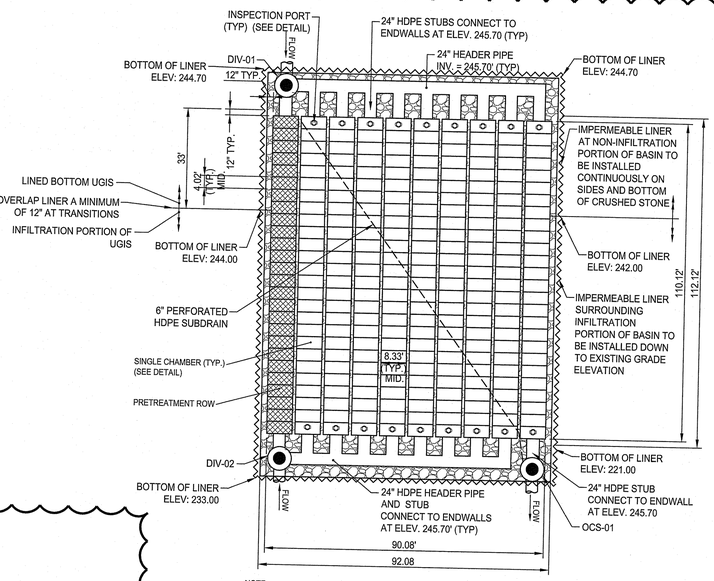
Z:\JOBS\21102.02 Johnston JES Stage III - PE\DWGS\Details.dwg



UGIS	1	2
A TOP OF STONE ELEV	251.70	244.50
B TOP OF CHAMBER ELEV	250.70	243.50
C BOTTOM OF CHAMBER ELEV	245.70	238.50
D BOTTOM OF STONE ELEV	244.70	237.50
E ESTIMATED SEASON HIGH GROUNDWATER TABLE	240.67*	233.50*

* INTERPOLATED USING DEPTH OF GROUNDWATER FROM EXISTING GRADE OF TP23-9 AND TP23-2 RESPECTIVELY. ESTIMATE REFLECTS HIGHEST GROUNDWATER ELEVATION WITHIN PROPOSED INFILTRATION FOOTPRINT.





NOTE:

1. LINER SHALL BE INSTALLED PER MANUFACTURER RECOMMENDATIONS.

UNDERGROUND INFILTRATION SYSTEM (UGIS-01) PLAN VIEW

NOT TO SCALE

1

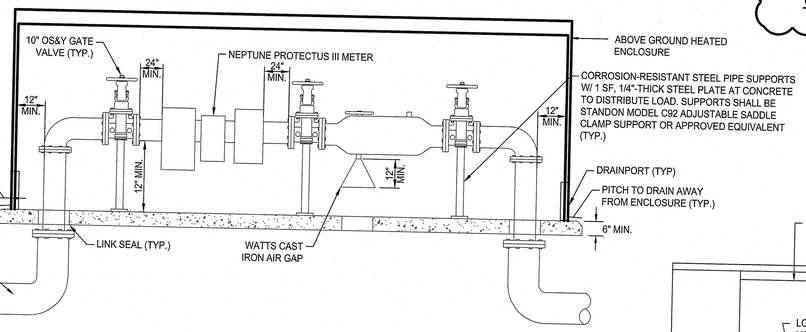
NOTES:

1. CONTRACTOR SHALL TAKE PRECAUTION NOT TO COMPACT SUBGRADE.
2. CONTRACTOR SHALL EXCAVATE TO C-HORIZON SOILS WITHIN LIMITS OF INFILTRATION. CONTRACTOR SHALL EXCAVATE TO B-HORIZON SOILS OUTSIDE OF LIMITS OF INFILTRATION AS DELINEATED ON THE DRAINAGE PLANS.
3. COMMON BORROW MATERIAL UNDER INFILTRATING PORTION OF UGIS SHALL CONFORM TO A USDA LOAMY SAND OR SANDY LOAM SOIL TEXTURE. CONTRACTOR SHALL SEND A SAMPLE TO THE ENGINEER TO CLASSIFY THE USDA SOIL TEXTURE AS PART OF THE SUBMITTAL.
4. CONTRACTOR SHALL NOT PLACE OR OPERATE HEAVY MACHINERY ON SUBGRADE OF INFILTRATING AREAS.
5. CONTRACTOR SHALL NOTIFY ENGINEER (48 HRS MIN) PRIOR TO EXPOSING SUBGRADE TO SCHEDULE INSPECTION.
6. ONCE CONTRACTOR HAS SUBGRADE EXPOSED, THE ENGINEER SHALL BE CONTACTED FOR INSPECTION.
7. CONSTRUCTION OF THE SYSTEM SHALL NOT COMMENCE UNTIL ENGINEER OBSERVES SUBGRADE AND CRUSHED STONE AND GRANTS PERMISSION TO PROCEED.
8. CONTRACTOR SHALL INSTALL UNDERGROUND INFILTRATION SYSTEM PER MANUFACTURERS RECOMMENDATIONS.

UNDERGROUND INFILTRATION SYSTEM DETAIL

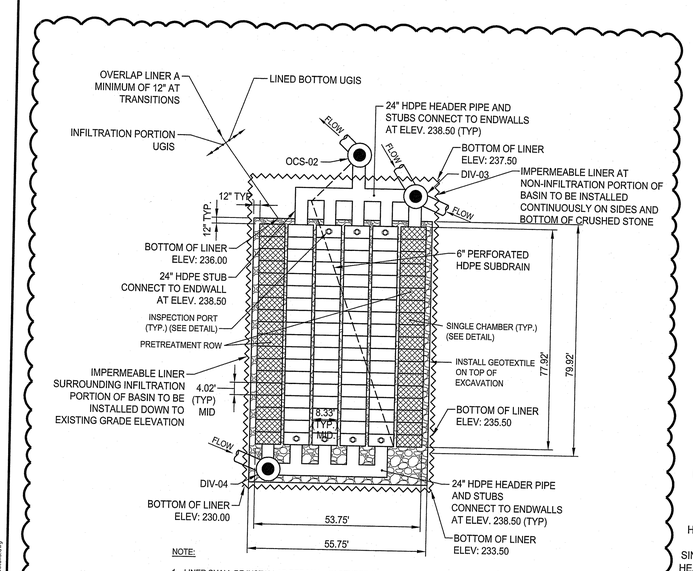
NOT TO SCALE

1



ABOVE GROUND HEATED ENCLOSURE SECTION A-A

NOT TO SCALE



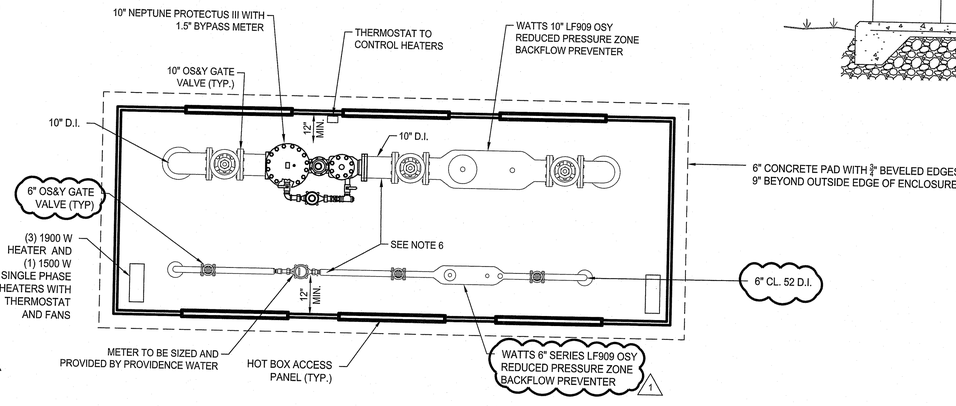
NOTE:

1. LINER SHALL BE INSTALLED PER MANUFACTURER RECOMMENDATIONS.

UNDERGROUND INFILTRATION SYSTEM (UGIS-02) PLAN VIEW

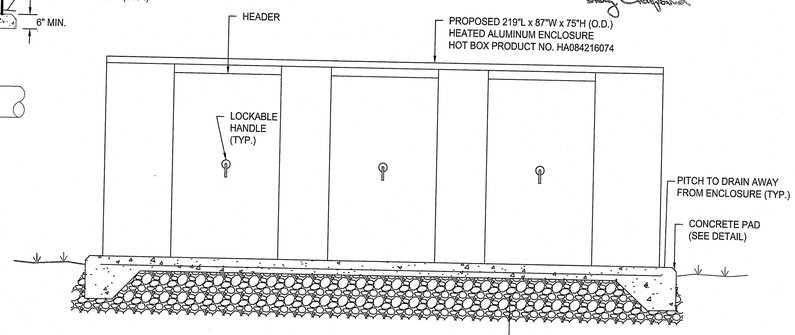
NOT TO SCALE

1



ABOVE GROUND HEATED ENCLOSURE PLAN AND PROFILE

NOT TO SCALE



HOTBOX ELEVATION VIEW

NOT TO SCALE

NOTES:

1. ALL INTERIOR PIPING SHALL BE CLASS 53 DUCTILE IRON WITH FLANGED JOINTS.
2. ALL BURIED PIPING SHALL BE CLASS 52 CEMENT-LINED DUCTILE IRON WITH MECHANICAL JOINTS.
3. ALL EXPOSED METAL SURFACES TO BE BONDED BY ELECTRICIAN PER NATIONAL ELECTRIC CODE.
4. CONTRACTOR SHALL SUPPORT ALL INTERIOR PIPING WITH PIPE SUPPORTS, NO LESS THAN 3 SUPPORTS PER LINE.
5. COMPONENTS OF ENCLOSURE INCLUDING BUT NOT LIMITED TO, ACCESS PANELS AND ANCHORS, QUANTITIES AND SPACING PER MANUFACTURER'S RECOMMENDATIONS.
6. PIPE DIAMETERS OF STRAIGHT RUN PIPE SHALL BE PROVIDED BEFORE AND AFTER METER/STRAINER ASSEMBLY.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: FEB 0 6 2024 FILE #: 23-0330
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

PARE

OWNER:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

APPLICANT:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

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

Johnston Elementary School
Johnston Public Schools
AP 47, LOTS 8 & 9
Atwood Ave
Johnston, RI

DAVID L. POTTER
No. 8665
01.05.24
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:

1	12-22-2023	RIDEM COMMENTS

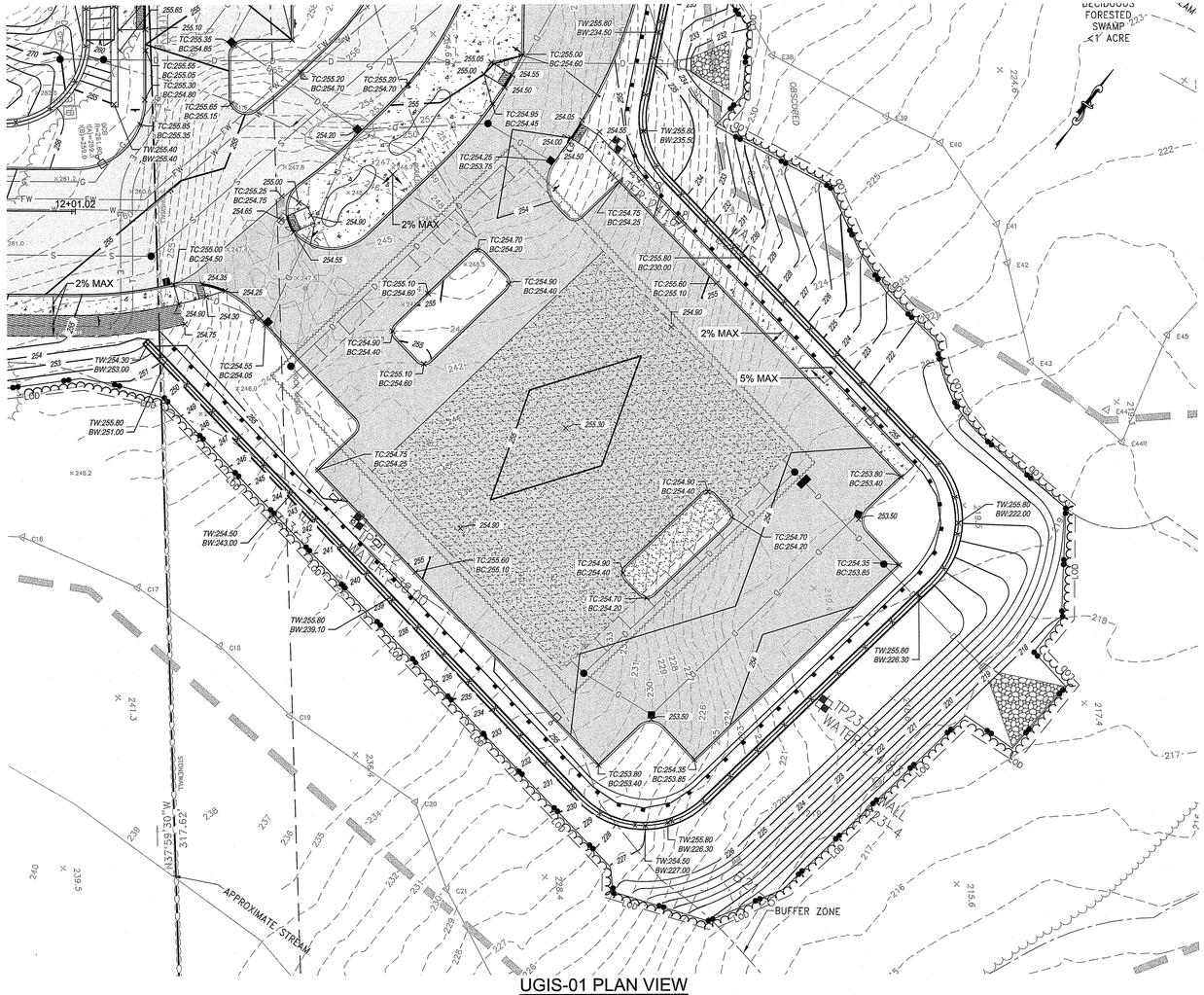
PROJECT NO.:	21102.02
DATE:	OCTOBER 16, 2023
SCALE:	AS NOTED
DESIGNED BY:	KJM
CHECKED BY:	MBA
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:
DETAILS 11

DRAWING NO.:
C7.11

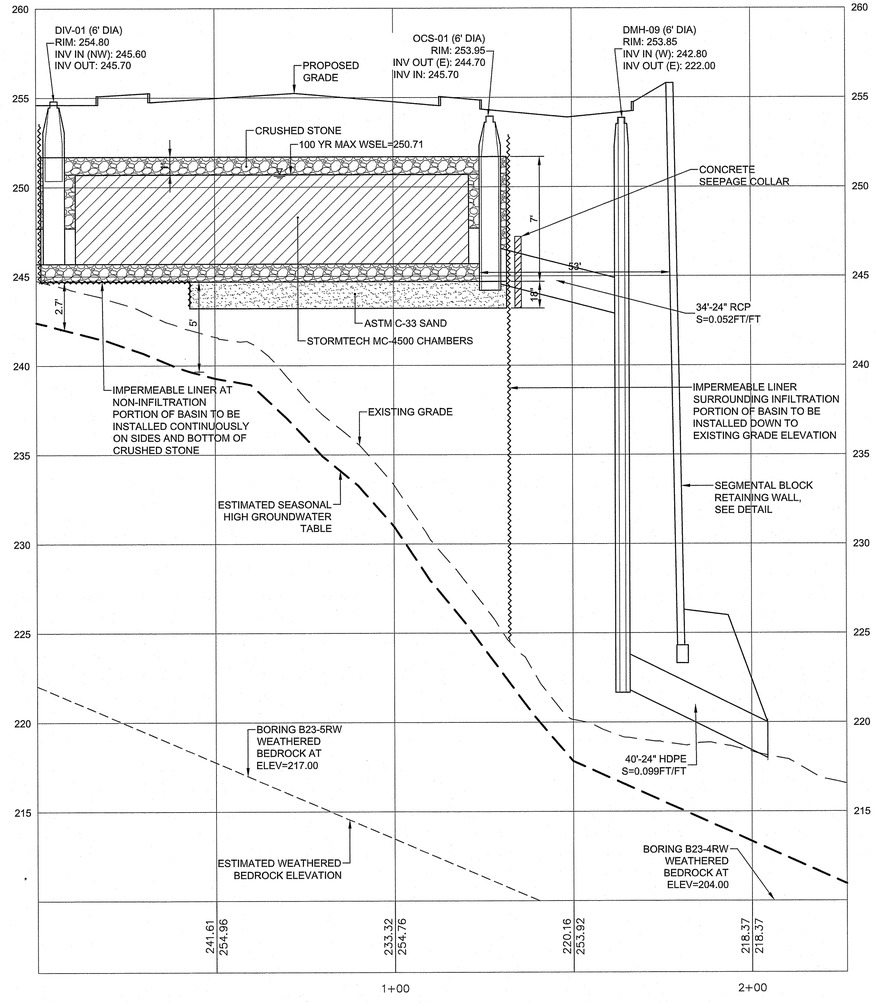
SHEET NO. 44 OF

Z:\JOBS\21_xlabs\21102.02_Johnston-_ES_Stage_III_-_RI\DWGS\Details.dwg



UGIS-01 PLAN VIEW

SCALE: 1"=20'



UGIS-01 PROFILE

SCALE: 1"=20' HOR.
SCALE: 1"=4' VER.

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

APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: FEB 06 2024 FILE #: 23-0999

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

RI Department of Environmental Management
JAN 10 2024
Office of Water Resources

PARE

OWNER:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

APPLICANT:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

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

Johnston Elementary School
Johnston Public Schools

AP 47, LOTS 8 & 9
Atwood Ave
Johnston, RI

DAVID L. POTTER
No. 8665
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
1.05.24

REVISIONS:

1	12-22-2023	RIDEM COMMENTS

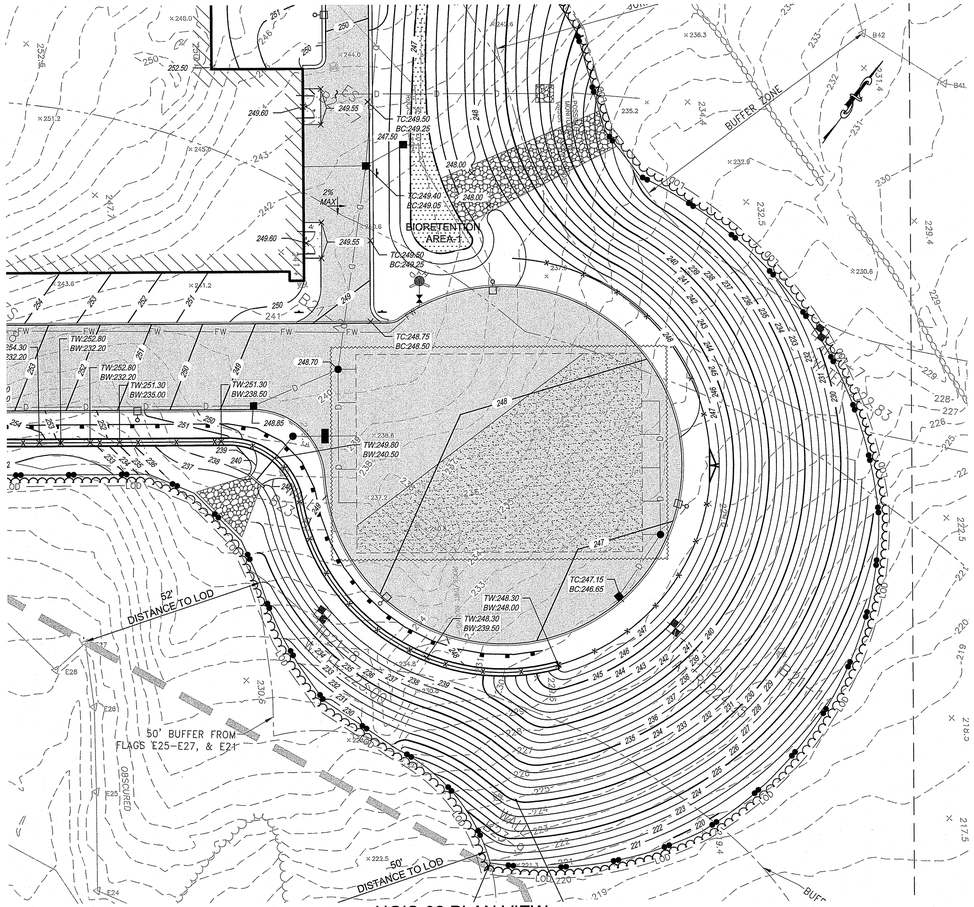
PROJECT NO.:	21102.02
DATE:	OCTOBER 16, 2023
SCALE:	AS NOTED
DESIGNED BY:	KJM
CHECKED BY:	MBA
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:
STORMWATER MANAGEMENT FACILITY PROFILES 1

DRAWING NO.:
C8.1

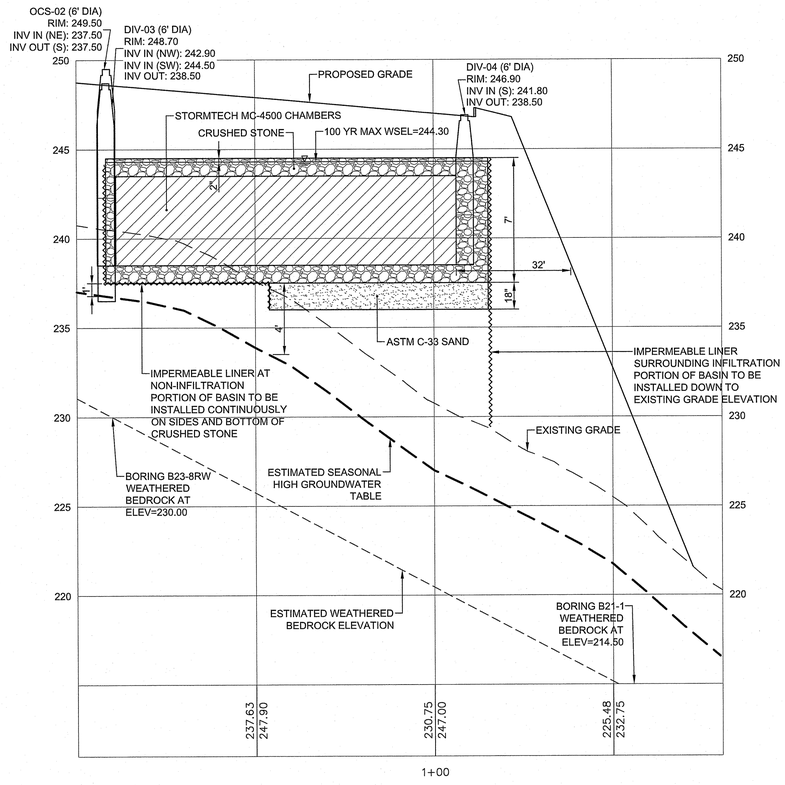
SHEET NO. 45 OF

Z:\JOBS\21 Johnston\21102.02 Johnston - JES Stage III - RI\DWGS\Drafting Plans.dwg



UGIS-02 PLAN VIEW

SCALE: 1"=20'



UGIS-02 PROFILE

SCALE: 1"=20' HOR.
SCALE: 1"=4' VER.

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

APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: FEB 06 2024 FILE #: 23-0222
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

RI Environmental Management
JAN 10 2024

PARE

OWNER:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

APPLICANT:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

SCALE ADJUSTMENT GUIDE
0" 1"
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Johnston Elementary School
Johnston Public Schools
AP 47, LOTS 8 & 9
Atwood Ave
Johnston, RI

DAVID L. POTTER
No. 8665
01.05.24
REGISTERED PROFESSIONAL ENGINEER
(CIVIL)

REVISIONS:		
1	12-22-2023	RIDEM COMMENTS

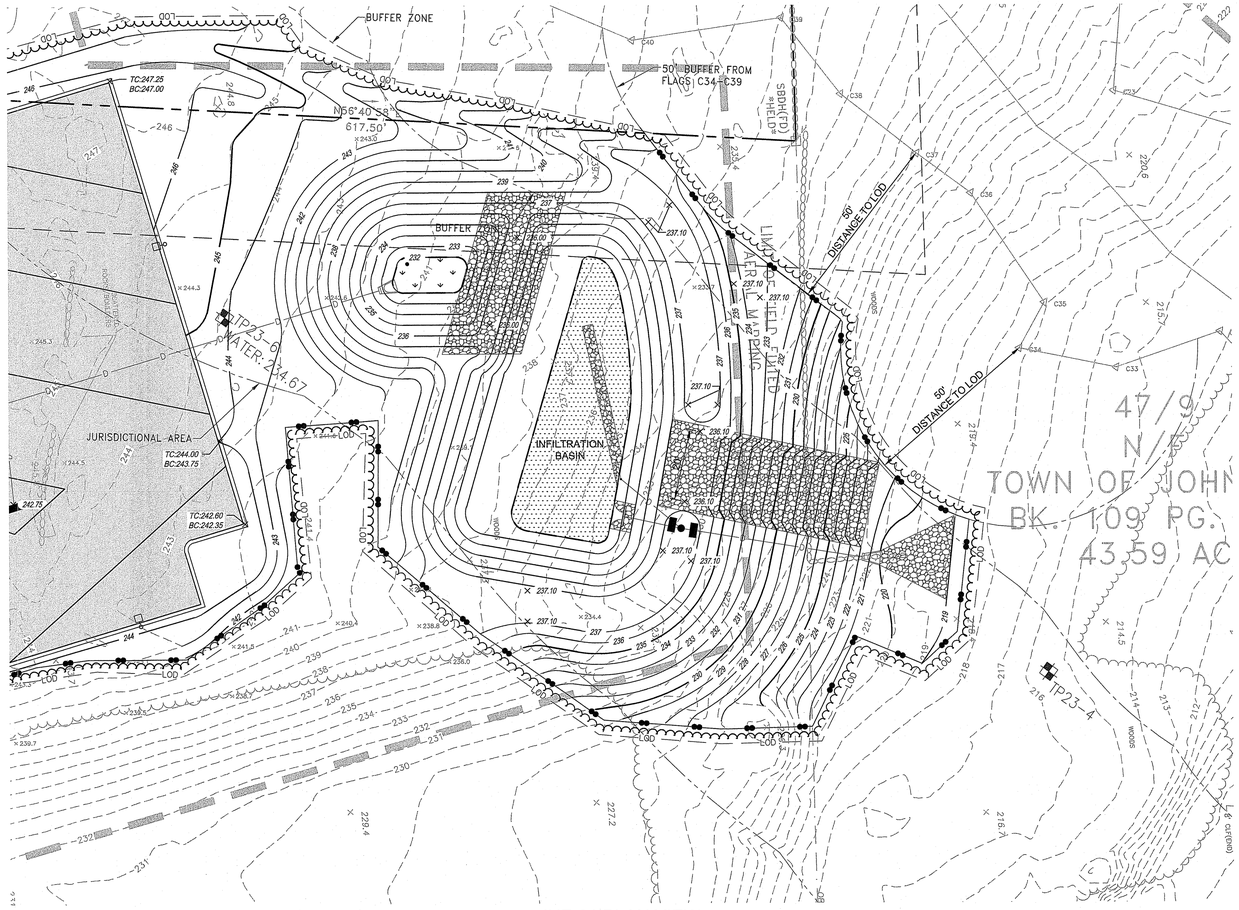
PROJECT NO.:	21102.02
DATE:	OCTOBER 16, 2023
SCALE:	AS NOTED
DESIGNED BY:	KJM
CHECKED BY:	MBA
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:
STORMWATER MANAGEMENT FACILITY PROFILES 2

DRAWING NO.:
C8.2

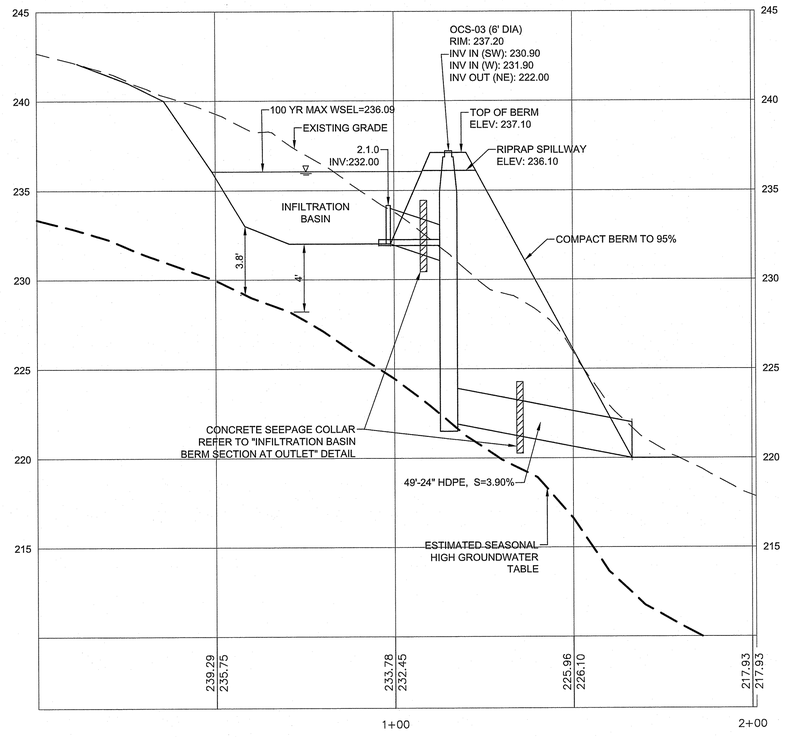
SHEET NO. 46 OF ___

Z:\2021\21102.02 Johnston - JES Stage III - RI\DWGS\Grading Plan.dwg



INF-01 PLAN VIEW

SCALE: 1"=20'



INF-01 PROFILE

SCALE: 1"=20' HOR.
SCALE: 1"=4' VER.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: FEB 06 2024 FILE #: 23-0229
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

RI Environmental Management
JAN 3 2024

PARE

OWNER:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

APPLICANT:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

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

Johnston Elementary School
Johnston Public Schools
AP 47, LOTS 8 & 9
Atwood Ave
Johnston, RI

DAVID L. POTTER
No. 8665
01.05.24
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:		
1	12-22-2023	RIDEM COMMENTS

PROJECT NO.:	21102.02
DATE:	OCTOBER 16, 2023
SCALE:	AS NOTED
DESIGNED BY:	KJM
CHECKED BY:	MBA
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:
STORMWATER MANAGEMENT FACILITY PROFILES 3

DRAWING NO.:
C8.3

SHEET NO. 47 OF ___

Z:\JOBS\21-JobsI\21102.02 Johnston — JES Stage II — RI\DWGS\Grading Plan.dwg

SEE ENLARGEMENT LP1.21
ENLARGEMENT B

SEE ENLARGEMENT LP1.21
ENLARGEMENT A

SEE ENLARGEMENT LP1.22

SEE ENLARGEMENT LP1.23

SEE ENLARGEMENT LP1.24

SEE ENLARGEMENT LP1.25

47/8
N/F
TOWN OF JOHNSTON
BK. 609 PG. 81
16.46 AC

47/2
N/F
TOWN OF JOHNSTON
109 PG. 767
43.59 AC

THIS IS BETWEEN THE EV STATIONS

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: FEB 06 2024 FILE #: 23-0222
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

0 50 100 150 200 feet
1" = 50'

NORTH

PARE

OWNER:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

APPLICANT:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

TRAVERSE
landscape architects

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

Johnston Elementary School
Johnston Public Schools
AP 47, LOTS 8 & 9
Atwood Ave
Johnston, RI

REGISTERED LANDSCAPE ARCHITECT
JEFFREY MITCHELL GRADNER
No. 426

REVISIONS:		
1	12-22-2023	RIDEM COMMENTS

PROJECT NO.:	21102.02
DATE:	OCTOBER 16, 2023
SCALE:	1" = 40'
DESIGNED BY:	TLA
CHECKED BY:	DP
DRAWN BY:	YF
APPROVED BY:	KB

DRAWING TITLE:
OVERALL LANDSCAPE PLAN

DRAWING NO.:
L1.20

SHEET NO. ___ OF 35

Z:\Projects\K--\21K\21024 Johnston - Elementary School\04 DD-CD\DWG\LP1.20 Overall Landscape Plan.dwg

ENLARGEMENT B

ENLARGEMENT A

ENLARGEMENT A

SEE ENLARGEMENT LP1.23

ENLARGEMENT B

ENLARGEMENT A

SEE ENLARGEMENT LP1.22

PLANT SCHEDULE ENLARGEMENT A

TREES	QTY	BOTANICAL / COMMON NAME	CONT	CAL	SIZE
AR2	2	Acer rubrum / Red Maple	7 gal		
AD	1	Acer rubrum `Autumn Red` / Autumn Red Maple	B & B	3"-3.5" Cal.	
AO	1	Acer rubrum 'October Glory' / October Glory Red Maple	B & B	3"-3.5" Cal.	
BA	3	Betula alleghaniensis / Yellow Birch	B & B		8'-10'
CR	3	Cornus x 'Rutgan' TM / Stellar Pink Dogwood	B & B	2"-2.5" Cal.	
GTS	5	Gleditsia triacanthos inermis `Suncolet` / Sunburst Honeylocust	B&B	3"-3.5" Cal.	
HV	4	Hamamelis virginiana / Common Witch Hazel	B & B		
HO	4	Hamamelis virginiana 'Sunglow' / Witchhazel Common	B & B		7'-8' H
JE	7	Juniperus virginiana / Eastern Redcedar	7 gal		
JC	15	Juniperus virginiana `Cupressifolia` / Hillspire Eastern Redcedar	B & B		7'-8' H

SHRUBS	QTY	BOTANICAL / COMMON NAME	CONT	SIZE
CIH	51	Cornus sericea 'Ivory Halo' / Ivory Halo Red Twig Dogwood	#3	
Ig	10	Ilex glabra 'Shamrock' / Shamrock Inkberry Holly	#5	

PERENNIALS/GRASSES	QTY	BOTANICAL / COMMON NAME	CONT	
Lb	26	Liriope muscari 'Big Blue' / Big Blue Lilyturf	#2	18" o.c.

SEED MIXES	QTY	BOTANICAL / COMMON NAME	CONT
NCW	5,922 sf	- - / NE CONSERVATION/ WILDLIFE SEED MIX	seed

PLANT SCHEDULE ENLARGEMENT B

TREES	QTY	BOTANICAL / COMMON NAME	CONT	CAL	SIZE
AN	6	Abies concolor / White Fir	B & B		6'-7' H
AD	1	Acer rubrum `Autumn Red` / Autumn Red Maple	B & B	3"-3.5" Cal.	
AO	5	Acer rubrum 'October Glory' / October Glory Red Maple	B & B	3"-3.5" Cal.	
CR	1	Cornus x 'Rutgan' TM / Stellar Pink Dogwood	B & B	2"-2.5" Cal.	
GTS	2	Gleditsia triacanthos inermis `Suncolet` / Sunburst Honeylocust	B&B	3"-3.5" Cal.	
HS	3	Hamamelis vernalis / Ozark Witchhazel	B & B	2"-2.5" Cal.	
HO	3	Hamamelis virginiana 'Sunglow' / Witchhazel Common	B & B		7'-8' H
JC	20	Juniperus virginiana `Cupressifolia` / Hillspire Eastern Redcedar	B & B		7'-8' H

SHRUBS	QTY	BOTANICAL / COMMON NAME	CONT	SIZE
Ck	15	Cornus sericea 'Kelseyi' / Kelsey's Dwarf Red Twig Dogwood	#3	
Hs2	10	Hydrangea quercifolia 'Sike's Dwarf' / Sike's Dwarf Oakleaf Hydrangea	#5	
Ig	14	Ilex glabra 'Shamrock' / Shamrock Inkberry Holly	#5	

PERENNIALS/GRASSES	QTY	BOTANICAL / COMMON NAME	CONT	
Ag	32	Andropogon gerardii 'Red October' / Red October Big Bluestem	#2	18" o.c.
Cf	10	Calamagrostis x acutiflora 'Karl Foerster' / Karl Foerster Feather Reed Grass	#2	24" o.c.
Es	39	Eragrostis spectabilis / Purple Lovegrass	#1	18" o.c.
Pc	9	Panicum virgatum 'Cloud Nine' / Cloud Nine Switch Grass	#1	30" o.c.
Ss	27	Schizachyrium scoparium 'Standing Ovation' / Standing Ovation Little Bluestem	#1	24" o.c.

NOTES:
1. ALL AREAS NOT OTHERWISE PAVED OR PLANTED SHALL BE 6" LOAM AND SEED
2. PLANTING BEDS SHALL BE 18" PLANTING SOIL AND MULCH
3. REFER TO SOIL PREP FOR RAIN GARDENS FOR BIORETENTION AND DETENTION AREAS
4. ALL GRADED SLOPES 3:1 AND GREATER SHALL RECEIVE JUTE MESH TO STABILIZE SLOPES. REFER TO SPEC 32 92 19 AND 32 93 00
5. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING ALL PLANT MATERIAL AND SEED QUANTITIES, ANY DISCREPANCIES BETWEEN PLAN AND SCHEDULE SHALL BE BROUGHT TO THE LANDSCAPE ARCHITECT'S ATTENTION

0 10 20 30 40 feet
1" = 10'

NORTH

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: FEB 06 2024 FILE #: 23-0222
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
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PARE

OWNER:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

APPLICANT:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

TRAVERSE landscape architects

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

REGISTERED LANDSCAPE ARCHITECT
KATE MITCHELL BRADNER
No. 428

Johnston Elementary School
Johnston Public Schools
AP 47, LOTS 8 & 9
Atwood Ave
Johnston, RI

REVISIONS:

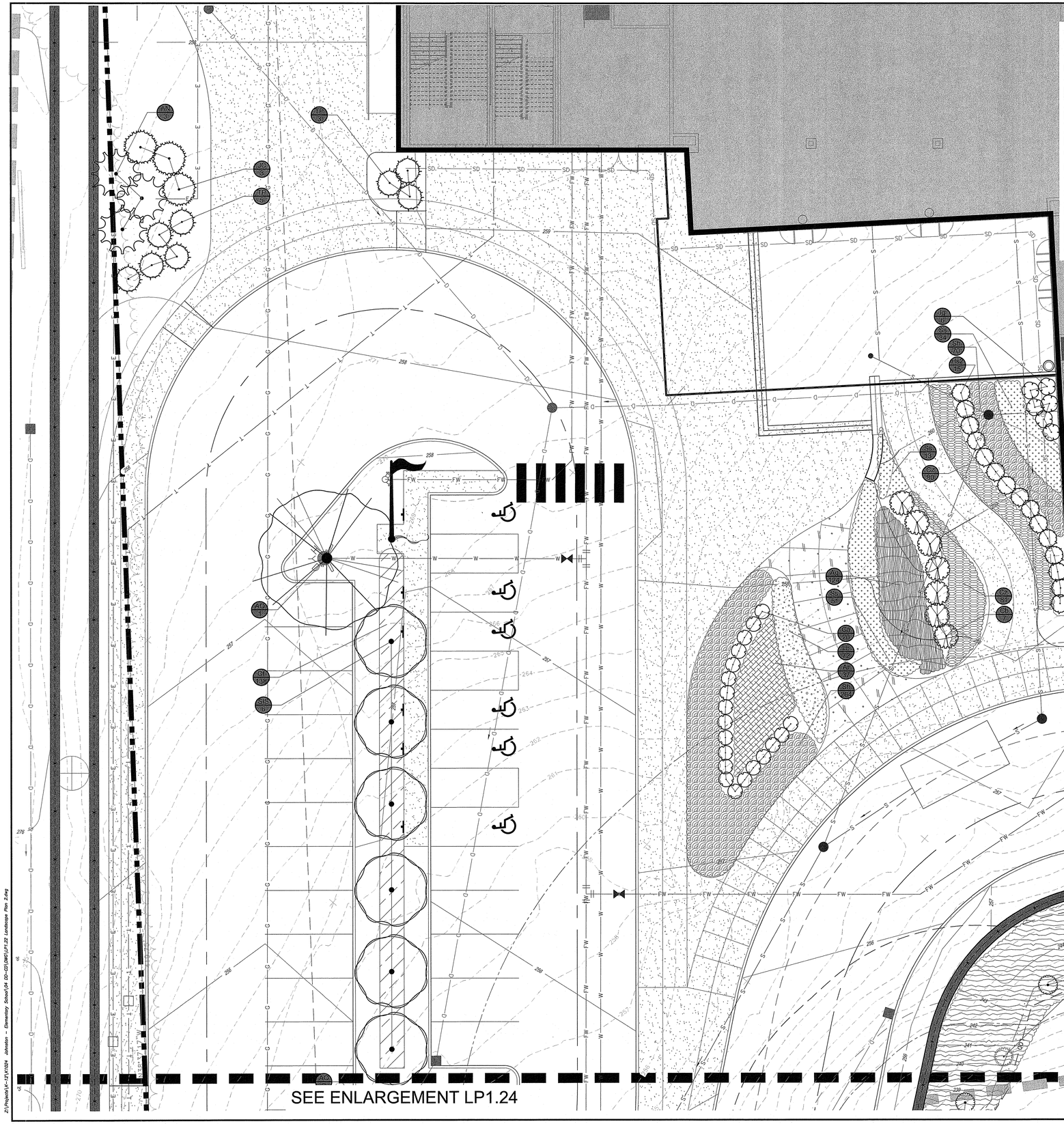
PROJECT NO.:	21102.02
DATE:	OCTOBER 16, 2023
SCALE:	1" = 10'
DESIGNED BY:	TLA
CHECKED BY:	DP
DRAWN BY:	YF
APPROVED BY:	KB

DRAWING TITLE:
LANDSCAPE PLAN 1

DRAWING NO.:
L1.21

SHEET NO. ___ OF 35

Z:\Projects\X-21\X21024 Johnston - Elementary School\04 CD-CD\DWG\LP\L21 Landscape Plan 1.dwg



PLANT SCHEDULE LP1.22

TREES	QTY	BOTANICAL / COMMON NAME	CONT	SIZE
AN	3	Abies concolor / White Fir	B & B	6`-7` H
AO	1	Acer rubrum 'October Glory' / October Glory Red Maple	B & B	3"-3.5" Cal.
JC	3	Juniperus virginiana `Cupressifolia` / Hillspire Eastern Redcedar	B & B	7`-8` H
SIS	6	Syringa reticulata 'Ivory Silk' / Ivory Silk Japanese Tree Lilac	B&B	1.5"-2.0"
TP	8	Thuja occidentalis 'Hetz Wintergreen' / Hetz Wintergreen Arborvitae	B & B	7`-8` H

SHRUBS	QTY	BOTANICAL / COMMON NAME	CONT	SIZE
Ca	20	Clethra alnifolia `Hummingbird` / Hummingbird Summersweet	#3	
Cb	7	Cornus sericea `Baileyi` / Red Twig Dogwood	#3	2`-3` H
Hs2	15	Hydrangea quercifolia 'Sike's Dwarf' / Sike's Dwarf Oakleaf Hydrangea	#5	
Ig	6	Ilex glabra 'Shamrock' / Shamrock Inkberry Holly	#5	
Lb2	4	Lindera benzoin / Spicebush	#3	
Va	4	Viburnum dentatum / Viburnum	#3	

PERENNIALS/GRASSES	QTY	BOTANICAL / COMMON NAME	CONT	
Ag	124	Andropogon gerardii 'Red October' / Red October Big Bluestem	#2	18" o.c.
Ar	37	Aster oblongifolius 'Raydon's Favorite' / Raydon's Favorite Fall Aster	#2	30" o.c.
Cf	138	Calamagrostis x acutiflora 'Karl Foerster' / Karl Foerster Feather Reed Grass	#2	24" o.c.
Cz	161	Coreopsis verticillata 'Zagreb' / Zagreb Tickseed	#2	18" o.c.
Lb	72	Liriope muscari 'Big Blue' / Big Blue Lilyturf	#2	18" o.c.
Ss	98	Schizachyrium scoparium 'Standing Ovation' / Standing Ovation Little Bluestem	#1	24" o.c.
Sh	334	Sporobolus heterolepis / Prairie Dropseed	#2	18" o.c.

NOTES:
1. ALL AREAS NOT OTHERWISE PAVED OR PLANTED SHALL BE 6" LOAM AND SEED
2. PLANTING BEDS SHALL BE 18" PLANTING SOIL AND MULCH
3. REFER TO SOIL PREP FOR RAIN GARDENS FOR BIORETENTION AND DETENTION AREAS
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5. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING ALL PLANT MATERIAL AND SEED QUANTITIES, ANY DISCREPANCIES BETWEEN PLAN AND SCHEDULE SHALL BE BROUGHT TO THE LANDSCAPE ARCHITECT'S ATTENTION

0 10 20 30 40 feet

1" = 10'

NORTH

PARE

OWNER:
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1385 HARTFORD AVENUE
JOHNSTON, RI 02919

APPLICANT:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

TRAVERSE landscape architects

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

Johnston Elementary School
Johnston Public Schools
AP 47, LOTS 8 & 9
Atwood Ave
Johnston, RI

REGISTERED LANDSCAPE ARCHITECT
KIMBERLY MITCHELL BRADNER
No. 428

REVISIONS:

PROJECT NO.:	21102.02
DATE:	OCTOBER 16, 2023
SCALE:	1" = 10'
DESIGNED BY:	TLA
CHECKED BY:	DP
DRAWN BY:	YF
APPROVED BY:	KB

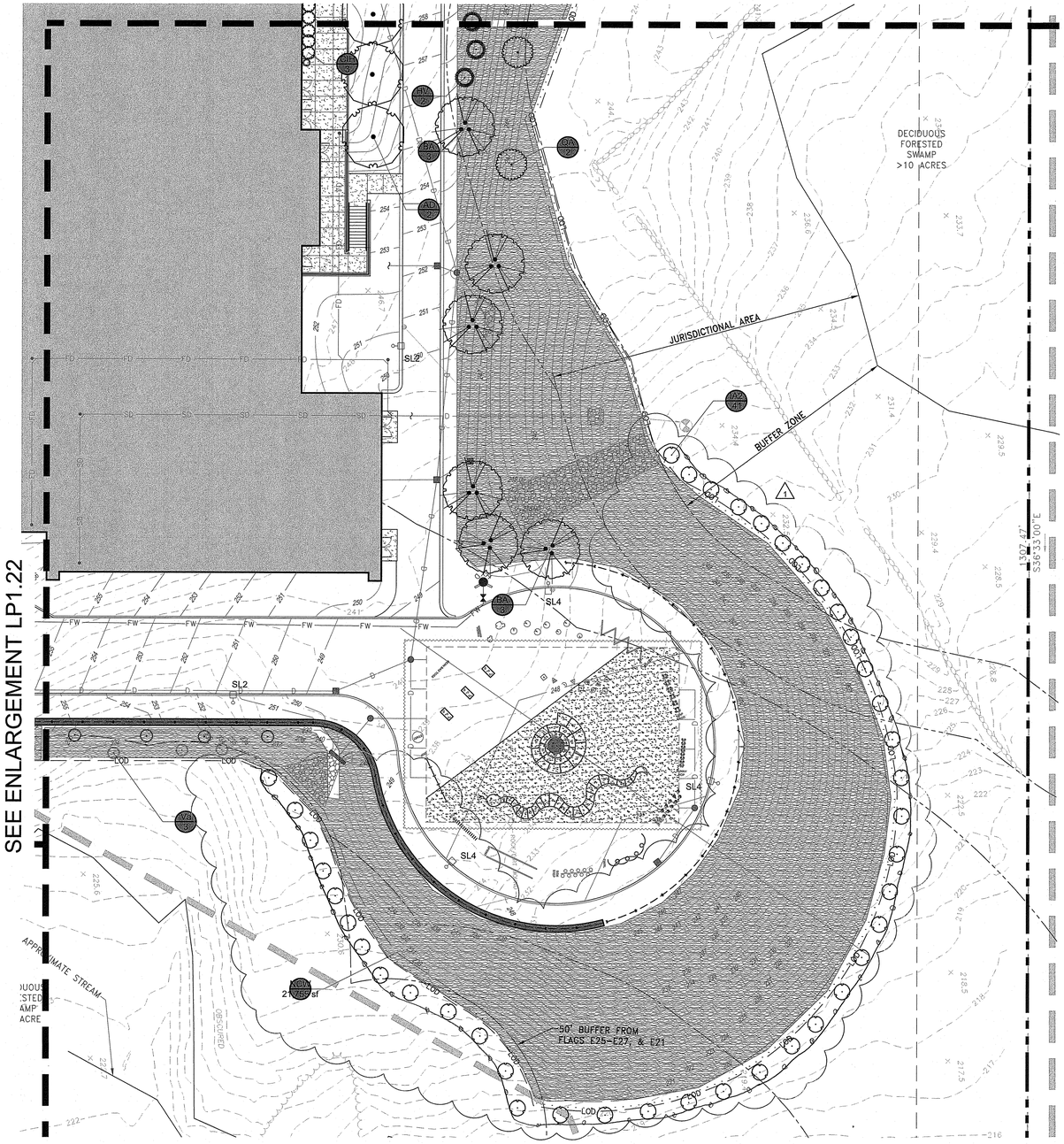
DRAWING TITLE:
LANDSCAPE PLAN 2

DRAWING NO.:
L1.22

SHEET NO. ___ OF 35

Z:\Projects\JC-12\JC1024 Johnston - Elementary School\04 CD-CDI\DWG\LP1.22 Landscape Plan 2.dwg

SEE ENLARGEMENT LP1.21



PLANT SCHEDULE LP1.23

CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL	SIZE
TREES					
AD	2	Acer rubrum `Autumn Red` / Autumn Red Maple	B & B	3"-3.5" Cal.	
BA	6	Betula alleghaniensis / Yellow Birch	B & B		8`-10`
HV	2	Hamamelis virginiana / Common Witch Hazel	B & B		7`-8` H
IA2	41	Ilex opaca / American Holly	B & B		4`-5`
QA	2	Quercus alba / White Oak	7 gal		5`-6` H

CODE	QTY	BOTANICAL / COMMON NAME	CONT	SIZE
SHRUBS				
CIH	3	Cornus sericea 'Ivory Halo' / Ivory Halo Red Twig Dogwood	#3	
Lb2	4	Lindera benzoin / Spicebush	#3	
Va	3	Viburnum dentatum / Viburnum	#3	

CODE	QTY	BOTANICAL / COMMON NAME	CONT	SPACING
SEED MIXES				
NCW	21,755 sf	- - / NE CONSERVATION/ WILDLIFE SEED MIX	seed	

NOTE:
ALL SHRUB AND TREE PLANTINGS WITHIN THE BUFFER ZONE SHALL BE 3'-4' AFTER PLANTING.

— · — · — = Temporary Limit of Disturbance per RIDEM.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: FEB 0 6 2024 FILE #: 23-0222
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

RI Environmental Management
JAN 1 9 2024

0 20 40 60 80 feet
1" = 20'

NORTH

PARE

OWNER:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

APPLICANT:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

TRAVERSE landscape architects

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

Johnston Elementary School
Johnston Public Schools
AP 47, LOTS 8 & 9
Atwood Ave
Johnston, RI

REGISTERED LANDSCAPE ARCHITECT
TIM MITCHELL SKINNER
No. 428

REVISIONS:		
1	12-22-2023	RIDEM COMMENTS

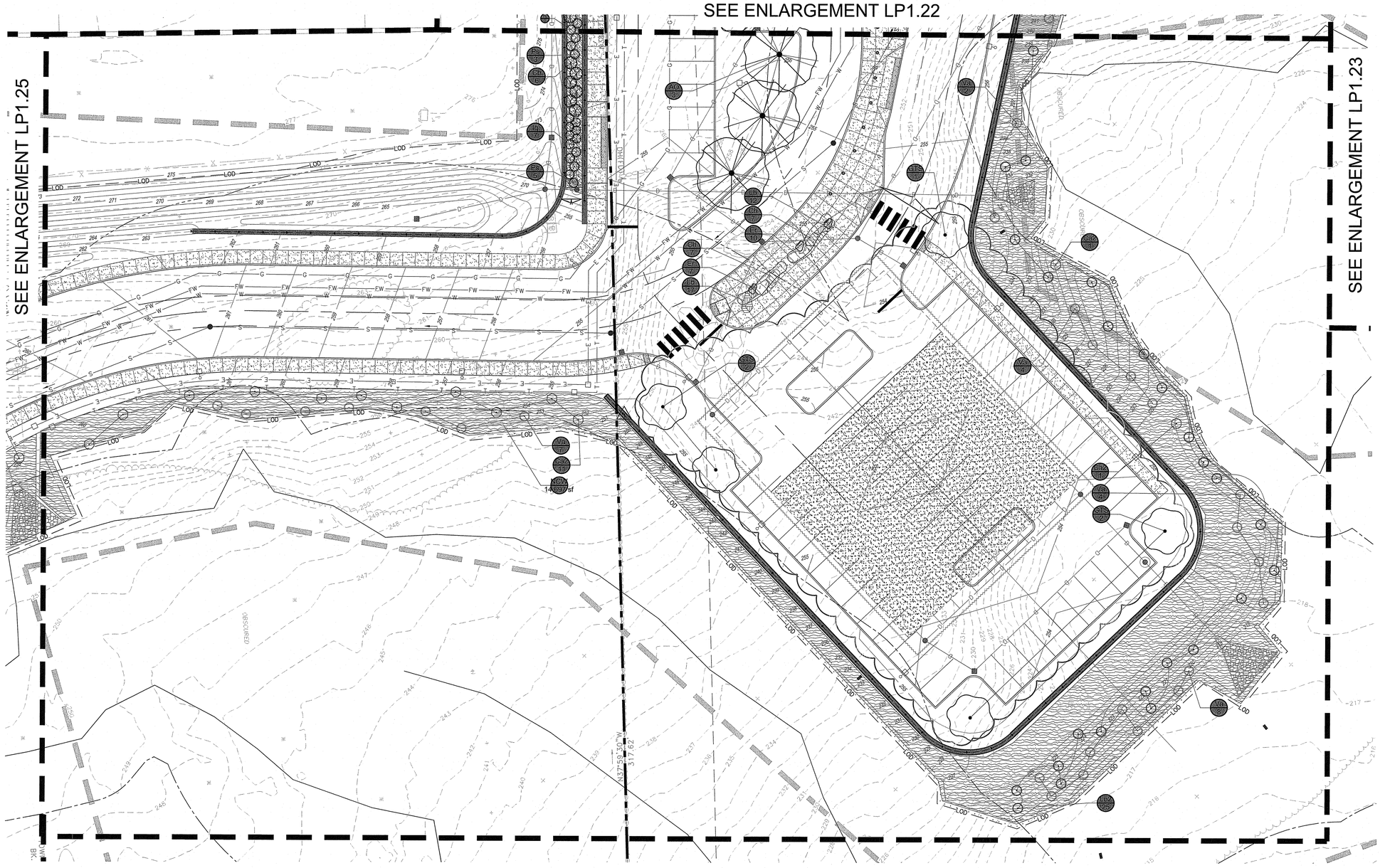
PROJECT NO.:	21102.02
DATE:	OCTOBER 16, 2023
SCALE:	1" = 20'
DESIGNED BY:	TLA
CHECKED BY:	DP
DRAWN BY:	YF
APPROVED BY:	KB

DRAWING TITLE:
LANDSCAPE PLAN 3

DRAWING NO.:
LP1.23

SHEET NO. ___ OF 35

Z:\Projects\X-121\X121024 Johnston - Elementary School\04 CD-CAD\DWG\LP1.23 Landscape Plan 3.dwg



PLANT SCHEDULE LP1.24

TREES	QTY	BOTANICAL / COMMON NAME	CONT	CAL	
AO	3	Acer rubrum 'October Glory' / October Glory Red Maple	B & B	3"-3.5" Cal.	
GTS	5	Gleditsia triacanthos inermis `Suncolet` / Sunburst Honeylocust	B&B	3"-3.5" Cal.	
SHRUBS	**QTY**	**BOTANICAL / COMMON NAME**	**CONT**	**SIZE**	
Ca2	13	Cornus amomum / Silky Dogwood	#3		
Cb	6	Cornus sericea `Baileyi` / Red Twig Dogwood	#3	2`-3` H	
Ig	7	Ilex glabra 'Shamrock' / Shamrock Inkberry Holly	#5		
Lb2	25	Lindera benzoin / Spicebush	#3		
Ps	8	Physocarpus opulifolius 'Seward' / Summer Wine® Ninebark	#3		
Va	25	Viburnum dentatum / Viburnum	#3		
PERENNIALS/GRASSES	**QTY**	**BOTANICAL / COMMON NAME**	**CONT**		
Ch	14	Chelone lyonii 'Hot Lips' / Hot Lips Pink Turtlehead	#1		24" o.c.
Er	17	Echinacea purpurea 'Ruby Star' / Ruby Star Coneflower	#2		24" o.c.
Lb	29	Liriope muscari 'Big Blue' / Big Blue Lilyturf	#2		18" o.c.
SEED MIXES	**QTY**	**BOTANICAL / COMMON NAME**	**CONT**		
NCW	14,697 sf	- - / NE CONSERVATION/ WILDLIFE SEED MIX	seed		

NOTE:
ALL SHRUB AND TREE PLANTINGS WITHIN THE BUFFER ZONE SHALL BE 3'-4' AFTER PLANTING.

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0 20 40 60 80 feet
1" = 20'

NORTH

RI Environmental Management
JAN 09 2024
Office of Water Resources

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TRAVERSE landscape architects

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Johnston Elementary School
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REGISTERED LANDSCAPE ARCHITECT
KIMBERLY MITCHELL GRADINER
No. 428

REVISIONS:		
1	12-22-2023	RIDEM COMMENTS

PROJECT NO.:	21102.02
DATE:	OCTOBER 16, 2023
SCALE:	1" = 10'
DESIGNED BY:	TLA
CHECKED BY:	DP
DRAWN BY:	YF
APPROVED BY:	KB

DRAWING TITLE:
LANDSCAPE PLAN 4

DRAWING NO.:
LP1.24

SHEET NO. ___ OF 35

Z:\Projects\K-12\K1024 Johnston - Elementary School\04 CD-CD\DWG\LP1.24 Landscape Plan 4.dwg

PLANT SCHEDULE LP1.25

CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL	SIZE
TREES					
AR2	6	Acer rubrum / Red Maple	7 gal		
AO	11	Acer rubrum 'October Glory' / October Glory Red Maple	B & B	3"-3.5" Cal.	
BA	3	Betula alleghaniensis / Yellow Birch	B & B		8`-10`
JC	6	Juniperus virginiana `Cupressifolia` / Hillspire Eastern Redcedar	B & B		7`-8` H

CODE	QTY	BOTANICAL / COMMON NAME	CONT	SIZE
SHRUBS				
Ca2	8	Cornus amomum / Silky Dogwood	#3	
Va	3	Viburnum dentatum / Viburnum	#3	

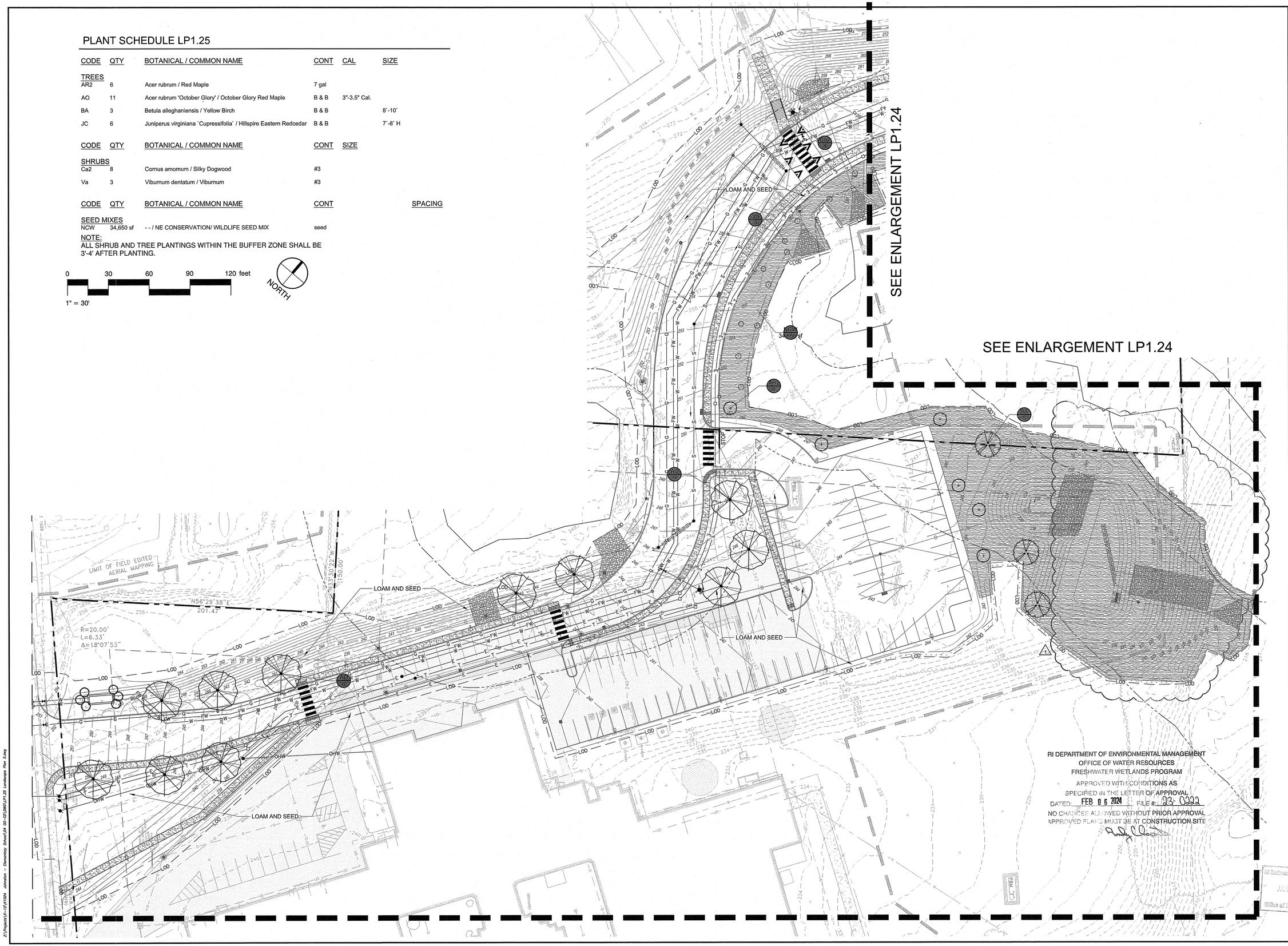
CODE	QTY	BOTANICAL / COMMON NAME	CONT	SPACING
SEED MIXES				
NCW	34,650 sf	- - / NE CONSERVATION/ WILDLIFE SEED MIX	seed	

NOTE:
ALL SHRUB AND TREE PLANTINGS WITHIN THE BUFFER ZONE SHALL BE 3'-4' AFTER PLANTING.

0 30 60 90 120 feet

1" = 30'

NORTH



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
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DATED: FEB 06 2024 FILE #: 93-0322
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
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RI Department of Environmental Management
Office of Water Resources

PARE

OWNER:
JOHNSTON PUBLIC SCHOOLS
1385 HARTFORD AVENUE
JOHNSTON, RI 02919

APPLICANT:
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TRAVERSE landscape architects

SCALE ADJUSTMENT GUIDE
0" 1"
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Johnston Elementary School
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Johnston, RI

REGISTERED LANDSCAPE ARCHITECT
KYLE MITCHELL BRADNER
No. 428

REVISIONS:		
1	12-22-2023	RIDEM COMMENTS

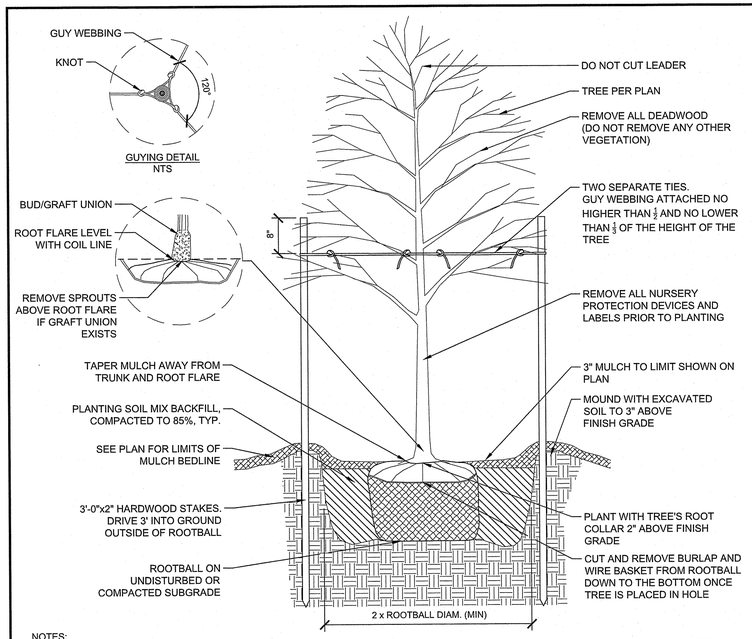
PROJECT NO.:	21102.02
DATE:	OCTOBER 16, 2023
SCALE:	1" = 10'
DESIGNED BY:	TLA
CHECKED BY:	DP
DRAWN BY:	YF
APPROVED BY:	KB

DRAWING TITLE:
LANDSCAPE PLAN 5

DRAWING NO.:
LP1.25

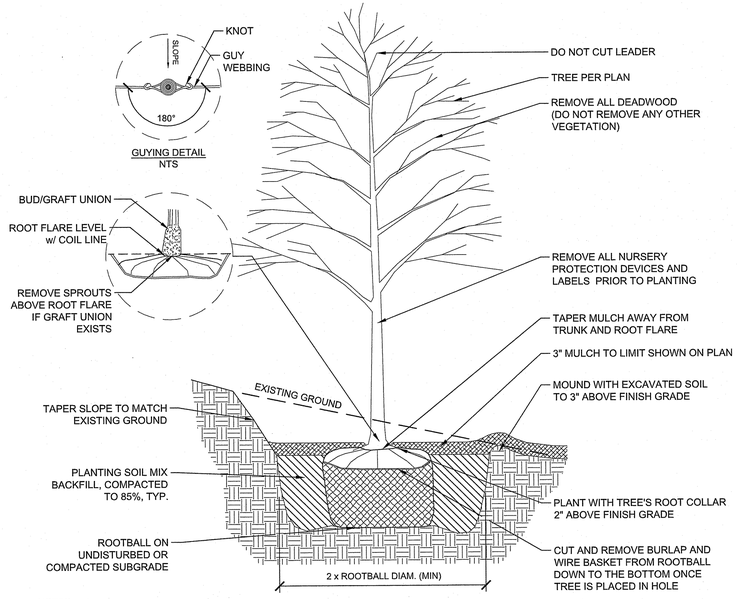
SHEET NO. ___ OF 35

Z:\Projects\X-21\21024 Johnston - Elementary School\Cad\ 20-CD\[BR]LP1.25 Landscape Plan 5.dwg



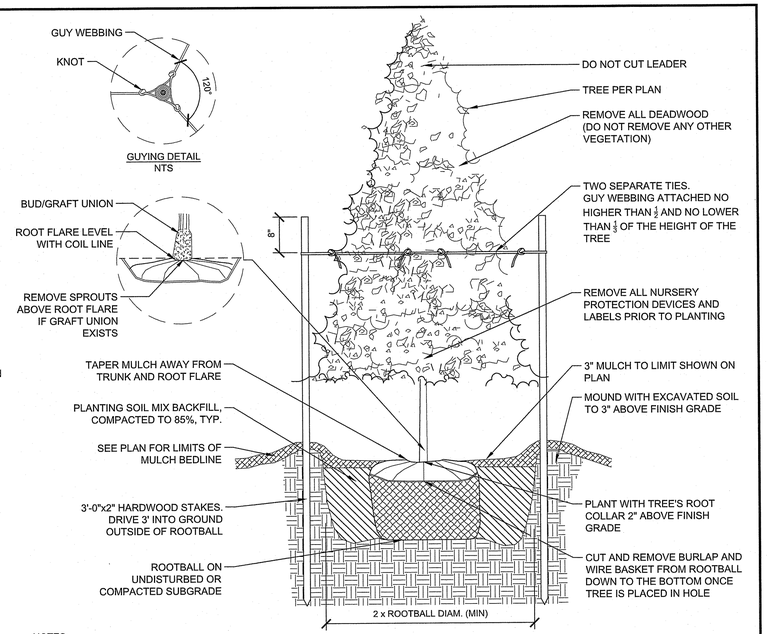
NOTES:
1. ALL TREES SHALL BE SET SO THAT THE ROOT FLARE IS ABOVE EXISTING GRADE. CONTRACTOR TO TAKE INTO ACCOUNT ANY SOIL SETTLING BELOW ROOT BALL.
2. AFTER THE GUARANTEE PERIOD THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL OF STAKES AND GUY WEBBING.
3. ALL TREES NOT LOCATED WITHIN A LARGER MULCHED PLANTING BED SHALL RECEIVE A 5' DIAMETER MULCH BED AROUND THE BASE OF THE TREE. IN NO INSTANCE SHALL MULCH BE PILED UP AROUND THE ROOT FLARE.

1 DECIDUOUS TREE PLANTING AND STAKING
3/4" = 1'-0"



NOTES:
1. ALL TREES SHALL BE SET SO THAT THE ROOT FLARE IS ABOVE EXISTING GRADE. CONTRACTOR TO TAKE INTO ACCOUNT ANY SOIL SETTLING BELOW ROOT BALL.
2. SLOPE PLANTING STAKES SHALL BE PLACED PARALLEL TO SLOPE.
3. AFTER THE GUARANTEE PERIOD THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL OF STAKES AND GUY WEBBING.
4. ALL TREES NOT LOCATED WITHIN A LARGER MULCHED PLANTING BED SHALL RECEIVE A 5' DIAMETER MULCH BED AROUND THE BASE OF THE TREE. IN NO INSTANCE SHALL MULCH BE PILED UP AROUND THE ROOT FLARE.

2 DECIDUOUS TREE PLANTING AND STAKING ON SLOPE
3/4" = 1'-0"



NOTES:
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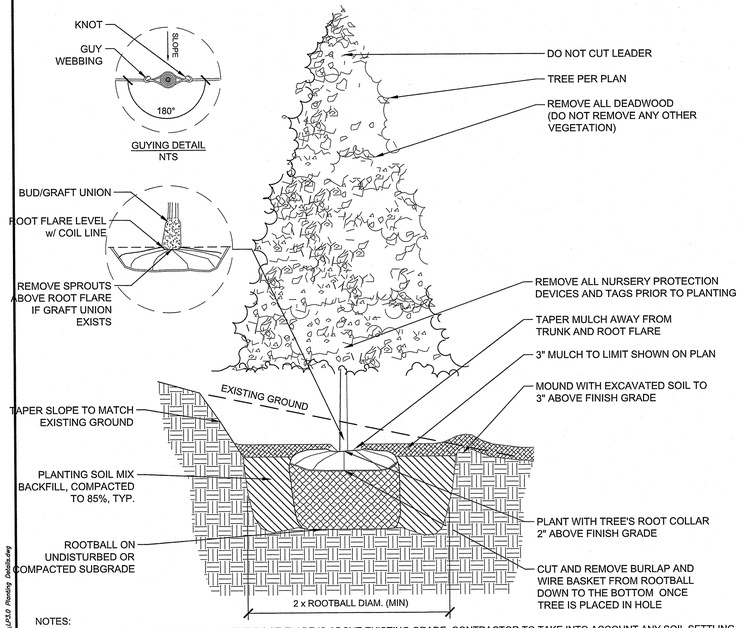
3 EVERGREEN TREE PLANTING AND STAKING
3/4" = 1'-0"



NOTES:
1. ALL TREES SHALL BE SET SO THAT THE ROOT FLARE IS ABOVE EXISTING GRADE. CONTRACTOR TO TAKE INTO ACCOUNT ANY SOIL SETTLING BELOW THE ROOT BALL
2. SLOPE PLANTING STAKES SHALL BE PLACED PARALLEL TO SLOPE.
3. AFTER THE GUARANTEE PERIOD THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL OF STAKES AND GUY WEBBING.
4. ALL TREES NOT LOCATED WITHIN A LARGER MULCHED PLANTING BED SHALL RECEIVE A 5' DIAMETER MULCH BED AROUND THE BASE OF THE TREE. IN NO INSTANCE SHALL MULCH BE PILED UP AROUND THE ROOT FLARE.

4 EVERGREEN TREE PLANTING AND STAKING ON SLOPE
3/4" = 1'-0"

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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RI Environmental Management
JAN 12 2024
Office of Water Resources

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REGISTERED LANDSCAPE ARCHITECT
KIM MITCHELL BRADNER
No. 428

REVISIONS:

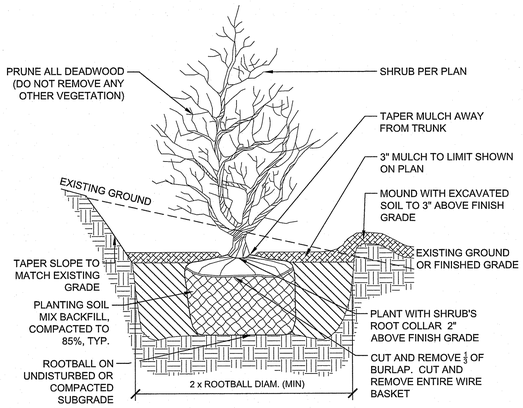
PROJECT NO.:	21102.02
DATE:	OCTOBER 16, 2023
SCALE:	AS NOTED
DESIGNED BY:	TLA
CHECKED BY:	DP
DRAWN BY:	YF
APPROVED BY:	KB

DRAWING TITLE:
PLANTING DETAILS

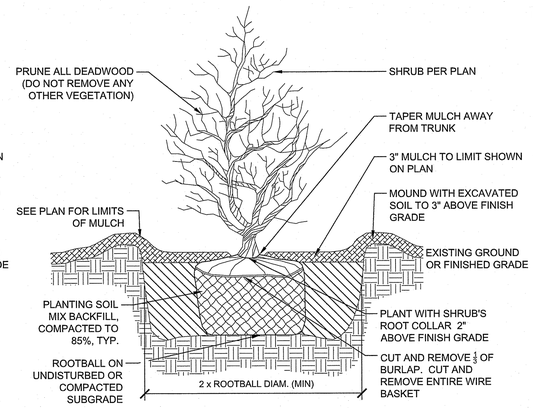
DRAWING NO.:
LP3.01

SHEET NO. ___ OF 35

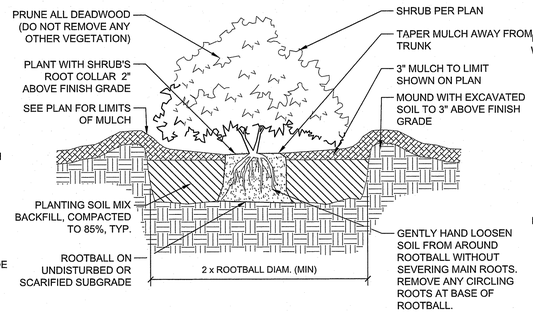
Z:\Projects\JK--\21\02\24 Johnston - Elementary School\04 ISD--CD\DWG\LP3.0 Planting Details.dwg



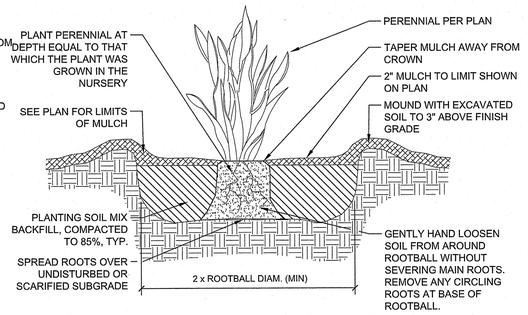
1 SHRUB PLANTING ON SLOPE
1" = 1'-0"



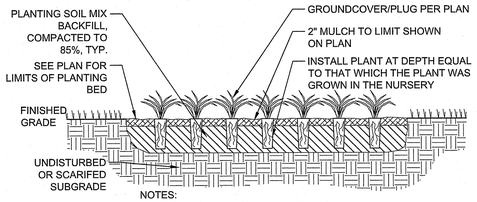
2 SHRUB PLANTING
1" = 1'-0"



3 CONTAINER GROWN SHRUB PLANTING
1" = 1'-0"

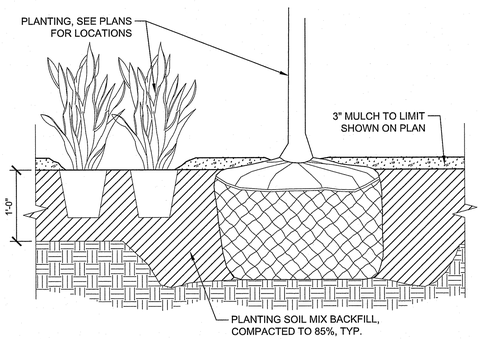


4 GRASS OR PERENNIAL PLANTING
1" = 1'-0"



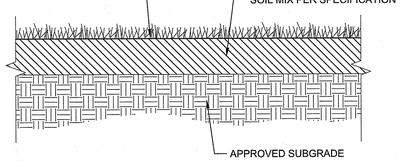
NOTES:
1. REFER TO SPECIFICATIONS AND DETAILS FOR SOIL DEPTHS.

5 GROUNDCOVER & PLUG PLANTING
1" = 1'-0"



NOTE:
THIS SOIL PROFILE SHALL BE PROVIDED FOR MULCHED PLANTING BEDS.

6 SOIL PROFILE FOR PLANTING BEDS
1" = 1'-0"



NOTES:
1. SEE PLANS FOR LIMITS OF SEEDED/SODDED AREAS.
2. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR WITH 6 INCHES LOAM AND SEED/SOD.
3. AREAS DISTURBED DURING CONSTRUCTION AND NOT RESTORED WITH IMPERVIOUS SURFACES (BUILDINGS, PAVEMENTS, WALKS, ETC.) SHALL RECEIVE 6 INCHES LOAM AND SEED/SOD.
4. CONTRACTOR SHALL ENSURE A FULL 6" DEPTH OF LOAM AFTER ROLLING, RAKING, AND WATERING. PREPARED SEED BED SHALL BE REVIEWED BY THE LANDSCAPE ARCHITECT PRIOR TO SEEDING ACTIVITIES.

7 LOAM & SEED
1" = 1'-0"

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REVISIONS:

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DRAWN BY:	YF
APPROVED BY:	KB

DRAWING TITLE:
PLANTING DETAILS

DRAWING NO.:
LP3.02

SHEET NO. ___ OF 35

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