Edward R. Martin Middle School

AP 307, Lots 33-07 & 33-15

111 Brown Street
East Providence, Rhode Island

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 DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: JAN 02 2025 FILE #: 23-0151
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

OWNER:

CITY OF EAST PROVIDENCE
SCHOOL DEPARTMENT
145 TAUNTON AVENUE
EAST PROVIDENCE, RI 02914

111 BROWN STREET
EAST PROVIDENCE, RI 02914

CIVIL ENGINEER:

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

ARCHITECT:

526 BOSTON POST ROAD
WAYLAND, MA 01778

LANDSCAPE ARCHITECT:

TRAVERSE
landscape architects
150 Chestnut Street, 4th Floor
Providence, RI 02903

OWNER PROJECT MANAGER:

Peregrine Group LLC
20 Newman Avenue, Suite 1005
Rumford, RI 02916



Scale : N.T.S.

RIDEM FRESHWATER WETLAND PERMIT MODIFICATION SUBMISSION
SEPTEMBER 12, 2024

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RI Environmental Management
SEP 19 2024
Office of Water Resources

REFERENCE

1. PROJECT LOCATION: EDWARD R. MARTIN MIDDLE SCHOOL, 111 BROWN STREET, EAST PROVIDENCE, RI 02914. ASSESSOR'S MAP 307, BLOCK 33, LOT 015.
2. EXISTING CONDITIONS MAPPING TAKEN FROM PLAN ENTITLED "BOUNDARY SURVEY & EXISTING CONDITIONS PLAN FOR CITY OF EAST PROVIDENCE ASSESSORS PLAT 307 LOT 33 -7 145 TAUNTON AVENUE CITY OF EAST PROVIDENCE ASSESSORS PLAT 307 LOT 33-15 111 BROWN STREET" PREPARED BY PRINCIPE COMPANY, INC. DATED MAY 1, 2023
3. EXISTING CONDITIONS PLAN SUPPLEMENTED BY TOWN OF EAST PROVIDENCE GIS DATA, STATE LIDAR, AND LIMITED FIELD MEASUREMENTS TAKEN BY PARE CORPORATION ON JUNE 30, 2022.
4. WETLAND FLAGS IDENTIFYING WETLAND RESOURCE AREAS WERE PLACED BY PARE CORPORATION ON MARCH 17, 2023 AND MARCH 21, 2023 AND LOCATED BY PRINCIPE COMPANY, INC.
5. 100-YR FLOOD ELEVATION SHOWN IS BASED ON THE FLOOD ELEVATION DETERMINED BY CAMP DRESSER & MCKEE INC. (CDM) AND REPORTED IN THE LETTER ENTITLED "CITY OF EAST PROVIDENCE, RHODE ISLAND ROSEGARDEN DRAINAGE ANALYSIS" PREPARED BY CDM DATED MARCH 1, 2000. THE 100-YR FLOOD ELEVATION HAS BEEN CONVERTED FROM NGVD 29 VERTICAL DATUM (EL. 37.61 FT) TO NAVD 88 VERTICAL DATUM (EL. 36.79). THE FLOOD ELEVATION IS BASED ON THE IMPACTS OF THE 100-YEAR, 24-HOUR STORM EVENT CALCULATED IN 2000.

GENERAL NOTES

1. PER AVAILABLE RIDEM MAPPING, THE PROJECT SITE IS LOCATED OUTSIDE 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. ALL NOTED UTILITIES TO BE REMOVED AND DISPOSED OF, RELOCATED OR CAPPED REPRESENT ALL KNOWN SITE CONDITIONS TO BE DEMOLISHED. THE CONTRACTOR SHALL COORDINATE ALL UNFORESEEN CONDITIONS WITH THE PROJECT ENGINEER, OWNER AND/OR RESPECTIVE UTILITY COMPANIES PRIOR TO PROCEEDING WITH WORK.
3. 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 CITY OF EAST PROVIDENCE SEWER DEPARTMENT.
11. ALL WATER LINE BENDS AND TEES SHALL BE REINFORCED WITH THRUST BLOCKS. ALL WATER DISTRIBUTION PIPING AND FITTINGS MUST ADHERE TO THE EAST PROVIDENCE WATER UTILITIES DIVISION 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 EAST PROVIDENCE WATER UTILITIES DIVISION 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 SEDIMENTATION CONTROL NOTES - RHODE ISLAND

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.

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 CITY OF EAST PROVIDENCE. 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.

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 36 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.

UNDERGROUND SAND FILTER 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. DURING THE SIX MONTHS IMMEDIATELY AFTER CONSTRUCTION, FILTER PRACTICES SHALL BE INSPECTED FOLLOWING AT LEAST THE FIRST TWO PRECIPITATION EVENTS OF AT LEAST 1.0" TO ENSURE THAT THE SYSTEM IS FUNCTIONING PROPERLY.
3. FOLLOWING STORM EVENTS WITH RAINFALL EXCEEDING 2.7"
   - INSPECT UNDERGROUND SAND FILTER 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 SAND FILTER SYSTEM TO ENSURE PROPER OPERATION OF THE SYSTEM.

PRETREAMENT ROW INSPECTION, MAINTENANCE, AND REPAIR NOTES

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

1. PROPRIETARY DEVICES SHALL BE MAINTAINED IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES.
3. BI-ANNUALLY
   - JETVAC MAINTENANCE IS RECOMMENDED IF SEDIMENT HAS BEEN COLLECTED TO A DEPTH OF 3" IN THE PRETREATMENT ROW OR IF POLLUTANT REMOVAL CAPACITY IS REDUCED BY 50% OR MORE, OR WHERE 50% OR MORE OF THE POLLUTANT STORAGE CAPACITY IS FILLED OR DISPLACED. 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. LEGALLY DISPOSE OF SEDIMENT OFF THE OWNER'S PROPERTY.

TREE BOX FILTER 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 TREE FILTER SHALL BE INSPECTED AFTER EVERY MAJOR STORM OF 2.7" OR GREATER FOR TRASH, DEBRIS, SEDIMENT, EROSION, STANDING WATER, AND OVERALL PERFORMANCE. DEFECTS SHALL BE REPAIRED BY THE OWNER.
2. OWNER SHALL RE-MULCH TREE BOX FILTERS IN SPRING EVERY YEAR.
3. REMOVE ACCUMULATED SEDIMENT FROM THE FILTER AREA ANNUALLY IN THE SPRING OR IF SEDIMENT EXCEEDS 1 INCH IN THE FILTER AREA. REMOVE ACCUMULATED SEDIMENT FROM THE SEDIMENT FOREBAY QUARTERLY OR IF SEDIMENT REACHES HALF THE DESIGN DEPTH OR MORE.
4. THE TREE BOX FILTERS SHALL BE INSPECTED AFTER THE FIRST TWO STORM EVENTS OF 1" OR MORE IN THE FIRST 6 MONTHS AFTER CONSTRUCTION.
5. IF PONDING EXCEEDS 48 HOURS, REMOVE AND REPLACE DISCOLORED SURFACE MATERIAL.
6. IF RUNOFF TAKES MORE THAN 36 HOURS TO FLOW FROM THE SEDIMENT FOREBAY TO THE TREE BOX FILTERS, THE SPILLWAY SHALL BE CLEANED.

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PARKING SUMMARY			
	REQUIRED	EXISTING	PROPOSED
STANDARD SPACES (9'x18')	133	137	170
ACCESSIBLE SPACES *	6	6	10
TOTAL SPACES	139	143	180

* ADA REQUIREMENT FOR PARKING LOT 151 TO 200 TOTAL SPACES = 6 ADA SPACES
106 TOTAL SPACES PROVIDED FOR MIDDLE SCHOOL
ADA REQUIREMENT FOR PARKING LOT 101 TO 150 TOTAL SPACES = 5 ADA SPACES
74 TOTAL SPACES PROVIDED FOR PRE-K
ADA REQUIREMENT FOR PARKING LOT 51 TO 75 TOTAL SPACES = 3 ADA SPACES

REQUIRED PARKING PER ZONING:
1. MIDDLE SCHOOL (78) + PRE-K USES (61) = 139
   1.1. TWO SPACES PER CLASSROOM (2*24) + ONE SPACE PER NON-TEACHER STAFF MEMBER (30) = 78 SPACES
   1.2. ONE SPACE FOR EACH FIVE PERSONS OF THE FACILITY'S LICENSED CAPACITY (288/5) + 3 SPACES FOR LOADING = 61 SPACES

ZONING TABLE			
ZONE: OPEN SPACE 1 (O1) USE: SCHOOL			
	REQUIRED*	EXISTING	PROPOSED
MINIMUM LOT SIZE	100,00 SF	668,344 SF	668,344 SF
MINIMUM FRONTAGE	40 LF	1059 LF	1059 LF
MAXIMUM LOT COVERAGE	10%	18%	13%
MAXIMUM BUILDING HEIGHT	35'	<35'	>35'
FRONT SETBACK	50'	190'	260'
SIDE SETBACK	50'	244'	387'
REAR SETBACK	50'	34'	24'
MAXIMUM IMPERVIOUS AREA	30%	42%	42%

* THE TOWN OF EAST PROVIDENCE IS EXEMPT FROM ZONING REQUIREMENTS. REQUIREMENTS DEPICTED ARE FOR THE CORRESPONDING ZONE.

RECEIVED
NOV 25 2024
CRMC

PARE

EDWARD R. MARTIN MIDDLE SCHOOL EAST PROVIDENCE, RHODE ISLAND

AI3 ARCHITECTS

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 3307 & 3315

DAVID L. POTTER
No. 8665
REGISTERED PROFESSIONAL ENGINEER
11.22.24

REVISIONS:

1	11/22/2024	RIDEM PERMIT MOD RTC

PROJECT NO.: 22037.05
DATE: SEPTEMBER 12, 2024
SCALE: NTS
DESIGNED BY:
CHECKED BY:
DRAWN BY:
APPROVED BY:
DRAWING TITLE:

Notes

DRAWING NO.:
C1.1
SHEET NO. 2 OF 47

X:\J0307.22 John\120127.05 EP Schools-Martin Middle Sch Design-RI\DWG\Notes & Layout.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
DG	DOUBLE GRATE
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
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
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
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
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

- (4.2.0M) = PRECAST 4'-0" ROUND MANHOLE - R.I. STD. 4.2.0M (MODIFIED)
- (4.2.1M) = PRECAST 5'-0' ROUND MANHOLE - R.I. STD. 4.2.1M (MODIFIED)
- (4.2.2M) = PRECAST 6'-0" ROUND MANHOLE - R.I. STD. 4.2.2M (MODIFIED)
- (4.4.0M) = PRECAST 4'-0", 5'-0", OR 6'-0" ROUND CATCH BASIN - R.I. STD. 4.4.0M (MODIFIED)
- (4.6.0) = CONCRETE COVER FOR SHALLOW 4'-0" ROUND MANHOLES - R.I. STD. 4.6.0
- (4.6.1) = CONCRETE COVER FOR SHALLOW 5'-0" ROUND MANHOLES - R.I. STD. 4.6.1
- (4.7.2) = ALTERNATE TOP COVER FOR ROUND PRECAST MANHOLES AND CATCH BASINS - R.I. STD. 4.7.2
- (5.3.0) = CATCH BASIN AND MANHOLE STEP - R.I. STD. 5.3.0
- (7.2.3) = PRECAST CONCRETE LOT CURB - R.I. STD. 7.2.3
- (7.2.4) = PRECAST CONCRETE CAR STOPS - R.I. STD. 7.2.4
- (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
- (7.3.3) = GRANITE WHEELCHAIR RAMP TRANSITION CURB - R.I. STD. 7.3.3
- (7.4.0) = GRANITE SLOPED FACE CURB - R.I. STD. 7.4.0
- (7.4.2) = GRANITE TRANSITION CURB (VERTICAL FACE TO SLOPED FACE) - R.I. STD. 7.4.2
- (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
- (24.1.0) = SIGN POST SELECTION AND INSTALLATION DETAILS SQUARE POST - R.I. STD. 24.1.0
- (24.6.0) = PARKING SIGN MOUNTING DETAIL - R.I. STD. 24.6.0
- (43.3.0M) = WHEELCHAIR RAMP - R.I. STD. 43.3.0M (MODIFIED)
- (43.3.1M) = WHEELCHAIR RAMP FOR LIMITED RIGHT-OF-WAY AREAS - R.I. STD. 43.3.1M (MODIFIED)
- (43.3.2M) = RAMP-LANDING FOR NARROW SIDEWALK - R.I. STD. 43.3.2M (MODIFIED)
- (47.1.1) = TRANSVERSE PAVEMENT CUT AND MATCH - R.I. STD. 47.1.1
- (48.1.0M) = DETECTABLE WARNING SYSTEM - R.I. STD. 48.1.0M (MODIFIED)
- (51.1.0) = TREE PROTECTION DEVICE - R.I. STD. 51.1.0
- (51.1.1) = DRIPLINE TREE PROTECTION DEVICE FOR EXISTING TREES - R.I. STD. 51.1.1

LEGEND

	EXISTING	PROPOSED
PROPERTY LINE		
SETBACKS		
EASEMENT LINE		
CONTOUR	255	262
SPOT ELEVATION	X 407.5	X 261.5
DRAINAGE LINE	D D D	D D D
WATER LINE	W W W	W W W
FIRE WATER LINE		FW FW
SANITARY SEWER LINE	S S S	S S S
GAS LINE	G G G	G G G
ELECTRIC	E E E	E E E
TELECOMMUNICATIONS LINE	T T T	T T T
OVERHEAD ELECTRIC LINE	OHW	OHW
LIMIT OF DISTURBANCE		LOD
LIMIT OF DISTURBANCE/COMPOST FILTER SOCK		LOD/CFS
CATCH BASIN		
HYDRANT		
DRAINAGE MANHOLE	D	
SEWER MANHOLE	S	
UTILITY POLE		
WATER VALVE	WV WV	
GAS GATE	GG	
LIGHT POLE		
TREE LINE		
STONE WALL		
CHAIN LINK FENCE	X X X	
WIRE FENCE		
WOOD FENCE		
FENCE		
CURBING		
EDGE OF PAVEMENT		
SAWCUT LINE		
SIGN	o	
COMPOST FILTER SOCK		
SAND BAGS		
NO. OF PARKING SPACES	(#)	(#)
WETLAND EDGE	WF A52 WF A51	
WETLAND JURISDICTIONAL AREA		
WETLAND BUFFER ZONE		
FLOOD PLAIN		

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: JAN 02 2025 FILE #: 23-0151
CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

SEP 12 2024

PARE

EDWARD R. MARTIN MIDDLE SCHOOL
EAST PROVIDENCE, RHODE ISLAND

AI3 ARCHITECTS

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 3307 & 3315

DAVID L. POTTER
No. 8665
REGISTERED PROFESSIONAL ENGINEER
STATE OF RHODE ISLAND
9/12/24

REVISIONS:

PROJECT NO.:	22037.05
DATE:	SEPTEMBER 12, 2024
SCALE:	NTS
DESIGNED BY:	
CHECKED BY:	
DRAWN BY:	
APPROVED BY:	

DRAWING TITLE:

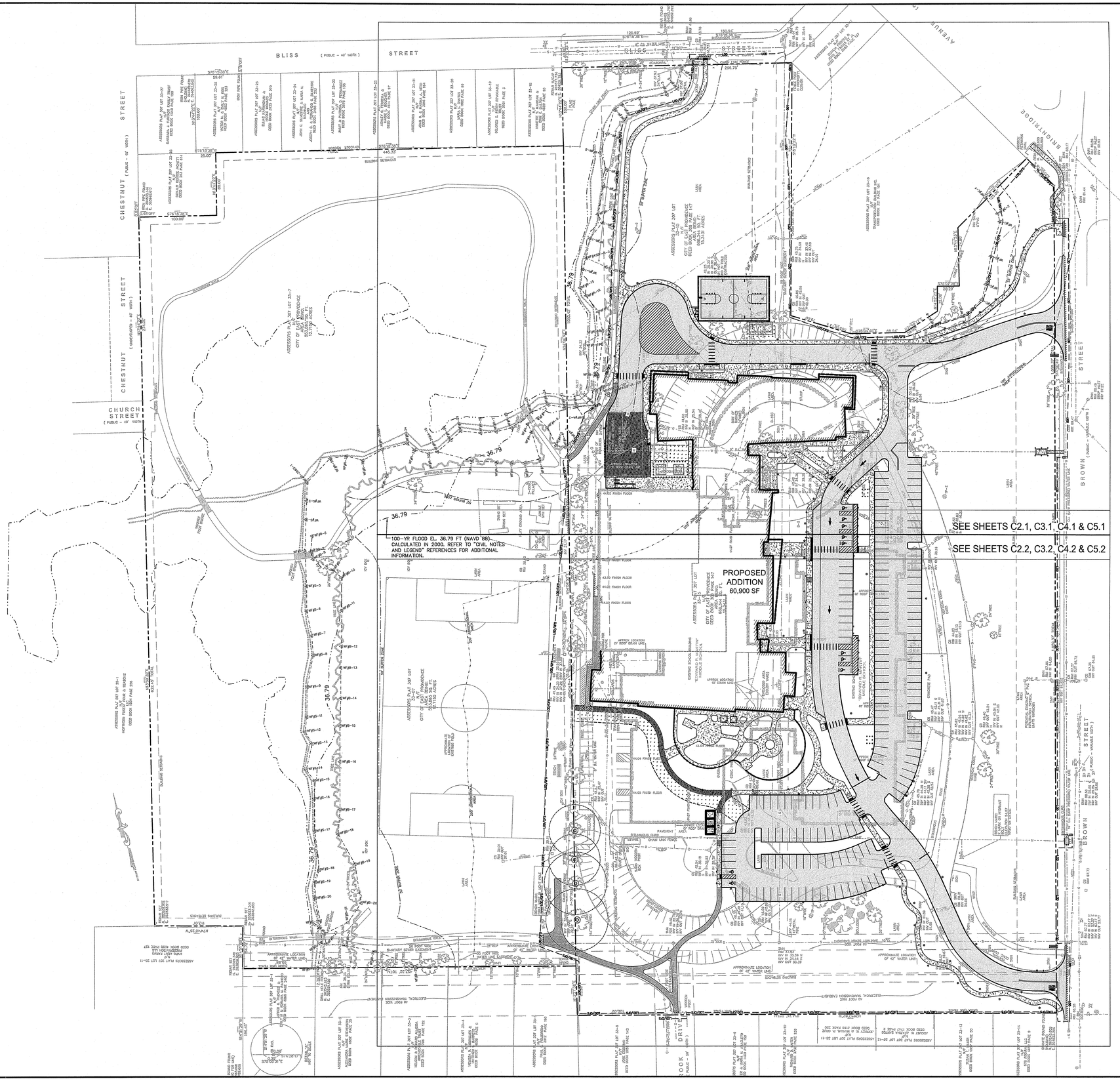
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DRAWING NO.:

C1.2

SHEET NO. 3 OF 47

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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: JAN 02 2025 FILE #: 23-045
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
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OFFICE OF WATER RESOURCES
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DATED: _____ FILE #: _____
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PARE

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 3307 & 3315

DAVID L. POTTER
No. 8665
REGISTERED PROFESSIONAL ENGINEER
09.12.24

REVISIONS:

PROJECT NO.:	22037.05
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SCALE:	1" = 60'
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DRAWN BY:	
APPROVED BY:	
DRAWING TITLE:	Overall Plan
DRAWING NO.:	C1.3
SHEET NO.	4 OF 47

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DEMOLITION NOTES:

1. DEMOLITION WORK WITHIN THE NOTED AREAS WAS COMPLETED UNDER SEPARATE CONTRACTS (SITE ENABLING PACKAGE AND PARKING LOT ENABLING DOCUMENTS). THIS WORK INCLUDES, BUT IS NOT LIMITED TO, THE REMOVAL OF PAVEMENT, CURBING, WALKWAYS, POSTS, FENCES, PLAY AREAS, UTILITIES, TREES, GRASS, AND DRAINAGE AS SHOWN ON SHEET EPC1.1 THROUGH EPC4.4 DATED SEPTEMBER 29, 2023 (MOST RECENT REVISION NOVEMBER 30, 2023) BY PARE CORPORATION AND SHEET L1.01, L1.02 AND LP2.01 DATED JULY 7, 2023 (MOST RECENT REVISION NOVEMBER 14, 2023) BY TRAVERSE. ALL TEMPORARY FEATURES CONSTRUCTED AS PART OF SITE ENABLING PACKAGE OR PARKING LOT ENABLING DOCUMENTS SHALL BE REMOVED AND DISPOSED UNLESS NOTED OTHERWISE.
2. THE CONTRACTOR SHALL DEMOLISH WORK CONSTRUCTED UNDER SEPARATE CONTRACT (SITE ENABLING PACKAGE). THIS WORK INCLUDES, BUT IS NOT LIMITED TO, THE REMOVAL OF PAVEMENT, CURBING, WALKWAYS, STEPS, CONCRETE PADS, POSTS, FENCES, PLAY AREAS, UTILITIES, TREES, GRASS, DRAINAGE, AND CONSTRUCTION OF PAVEMENT, SIGNS, CURBING, WALKS, FENCING, UTILITIES, DRAINAGE, AND OTHER SITE FEATURES AS SHOWN ON SHEETS EPC1.1 THROUGH EPC4.4 DATED SEPTEMBER 29, 2023 (MOST RECENT REVISION NOVEMBER 30, 2023). ALL SITE FEATURES CONSTRUCTED AS PART OF SITE ENABLING PACKAGE SHALL BE REMOVED AND DISPOSED UNLESS NOTED OTHERWISE.
3. UTILITY SERVICE TO THE FACILITY SHALL NOT BE INTERRUPTED DUE TO UTILITY WORK SHOWN HEREON. ALL UTILITIES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
4. 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.
5. 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.
6. ALL TEMPORARILY CUT UTILITIES SHALL BE PROTECTED FROM SEDIMENTATION UNTIL IT IS CONNECTED IN ITS POST-CONSTRUCTION POSITION.
7. REFER TO ELECTRICAL SITE PLAN FOR ALL ELECTRICAL AND TELECOMMUNICATIONS WORK, INCLUDING DEMOLITION.
8. 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. REFER TO "NOTES" FOR ADDITIONAL NOTES.

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

LEGEND:

- 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.

LEGEND

- TDS - TEMPORARY DIVERSION SWALE/BERM
- TST - TEMPORARY SEDIMENT TRAP
- TST LIMITS OF WET STORAGE AREA
- TST LIMITS OF DRY STORAGE AREA

CONTRACTOR SHALL CONSTRUCT A TEMP DIVERSION BERM/SWALE TO DIVERT RUNOFF FROM ADJACENT PROPERTY AROUND UNSTABILIZED AREAS. OFFSITE FLOW ONTO THE SITE SHALL NOT MIX WITH SEDIMENT. IF OFFSITE FLOW BECOMES SEDIMENT LADEN, CONTRACTOR SHALL DIVERT TO A TEMPORARY SEDIMENT TRAP SIZED TO HANDLE THE FLOW IT IS RECEIVING PRIOR TO DISCHARGING.

EROSION CONTROLS SHALL NOT PREVENT WATER FROM FLOWING OFF ABUTTING PROPERTY

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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CONTRACTOR SHALL PLACE LOD AND CFS AT EDGE OF WOODED VEGETATION. THERE SHALL BE NO CUTTING OF WOODED VEGETATION.

LIMIT OF WORK UNDER SEPARATE CONTRACT (SEE DEMOLITION NOTE 1)

100-YR FLOOD EL. 36.79 FT (NAVD 88) CALCULATED IN 2000. REFER TO "CIVIL NOTES AND LEGEND" REFERENCES FOR ADDITIONAL INFORMATION.

MATCHLINE - SEE SHEET C2.2

RI Environmental Management NOV 25 2024 Office of Water Resources

PARE

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 3307 & 3315

DAVID L. POTTER
No. 8665
11.22.24
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:		
1	11/22/2024	RIDEM PERMIT MOD RTC

PROJECT NO.:	22037.05
DATE:	SEPTEMBER 12, 2024
SCALE:	1" = 30'
DESIGNED BY:	
CHECKED BY:	
DRAWN BY:	
APPROVED BY:	

DRAWING TITLE:

Demolition & Erosion Control Plan 1

DRAWING NO.: C2.1

SHEET NO. 5 OF 47

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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. REFER TO "NOTES" FOR ADDITIONAL NOTES.

DEMOLITION NOTES:

1. DEMOLITION WORK WITHIN THE NOTED AREAS WAS COMPLETED UNDER SEPARATE CONTRACTS (SITE ENABLING PACKAGE AND PARKING LOT ENABLING DOCUMENTS). THIS WORK INCLUDES, BUT IS NOT LIMITED TO, THE REMOVAL OF PAVEMENT, CURBING, WALKWAYS, POSTS, FENCES, PLAY AREAS, UTILITIES, TREES, GRASS, AND DRAINAGE AS SHOWN ON SHEET EPC1.1 THROUGH EPC4.4 DATED SEPTEMBER 29, 2023 (MOST RECENT REVISION NOVEMBER 30, 2023) BY PARE CORPORATION AND SHEET L1.01, L1.02 AND LP2.01 DATED JULY 7, 2023 (MOST RECENT REVISION NOVEMBER 14, 2023) BY TRAVERSE. ALL TEMPORARY FEATURES CONSTRUCTED AS PART OF SITE ENABLING PACKAGE OR PARKING LOT ENABLING DOCUMENTS SHALL BE REMOVED AND DISPOSED UNLESS NOTED OTHERWISE.
2. UTILITY SERVICE TO THE FACILITY SHALL NOT BE INTERRUPTED DUE TO UTILITY WORK SHOWN HEREON. ALL UTILITIES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
3. 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.
4. 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.
5. ALL TEMPORARILY CUT UTILITIES SHALL BE PROTECTED FROM SEDIMENTATION UNTIL IT IS CONNECTED IN ITS POST-CONSTRUCTION POSITION.
6. REFER TO ELECTRICAL SITE PLAN FOR ALL ELECTRICAL AND TELECOMMUNICATIONS WORK, INCLUDING DEMOLITION.
7. REFER TO "NOTES AND LEGEND" FOR ADDITIONAL NOTES.

MATCHLINE - SEE SHEET C2.1

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: JAN 02 2025 FILE #: R&D
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

THE CONTRACTOR SHALL DEMOLISH WORK CONSTRUCTED UNDER SEPARATE CONTRACT (SITE ENABLING PACKAGE). THIS WORK INCLUDES, BUT IS NOT LIMITED TO, THE REMOVAL OF PAVEMENT, CURBING, WALKWAYS, STEPS, CONCRETE PADS, POSTS, FENCES, PLAY AREAS, UTILITIES, TREES, GRASS, DRAINAGE, AND CONSTRUCTION OF PAVEMENT, SIGNS, CURBING, WALKS, FENCING, UTILITIES, DRAINAGE, AND OTHER SITE FEATURES AS SHOWN ON SHEETS EPC1.1 THROUGH EPC4.4 DATED SEPTEMBER 29, 2023 (MOST RECENT REVISION NOVEMBER 30, 2023). ALL SITE FEATURES CONSTRUCTED AS PART OF SITE ENABLING PACKAGE SHALL BE REMOVED AND DISPOSED UNLESS NOTED OTHERWISE.

LEGEND:

- REMOVE & DISPOSE TREE. DISPOSE OF TREE AND STUMP OFF-SITE.
- PROTECT EXISTING TREE TO REMAIN.
- TP — PRIOR TO COMMENCING WORK, CONTRACTOR SHALL EXCAVATE TEST PIT TO CONFIRM LOCATION, ELEVATION, AND SIZE OF UTILITY. PROVIDE INFORMATION TO ENGINEER.

LEGEND

- TDS - TEMPORARY DIVERSION SWALE/BERM
- TST - TEMPORARY SEDIMENT TRAP
- TST LIMITS OF WET STORAGE AREA
- TST LIMITS OF DRY STORAGE AREA

Scale: 1"=30'

PARE

EDWARD R. MARTIN MIDDLE SCHOOL — PROVIDENCE, RHODE ISLAND

Ai3 ARCHITECTS

RI Environmental Management
NOV 25 2024
Office of Water Resources

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 3307 & 3315

DAVID L. POTTER
No. 8665
11.22.24
REGISTERED PROFESSIONAL ENGINEER

REVISIONS:		
1	11/22/2024	RIDEM PERMIT MOD RTC

PROJECT NO.:	22037.05
DATE:	SEPTEMBER 12, 2024
SCALE:	1" = 30'
DESIGNED BY:	
CHECKED BY:	
DRAWN BY:	
APPROVED BY:	

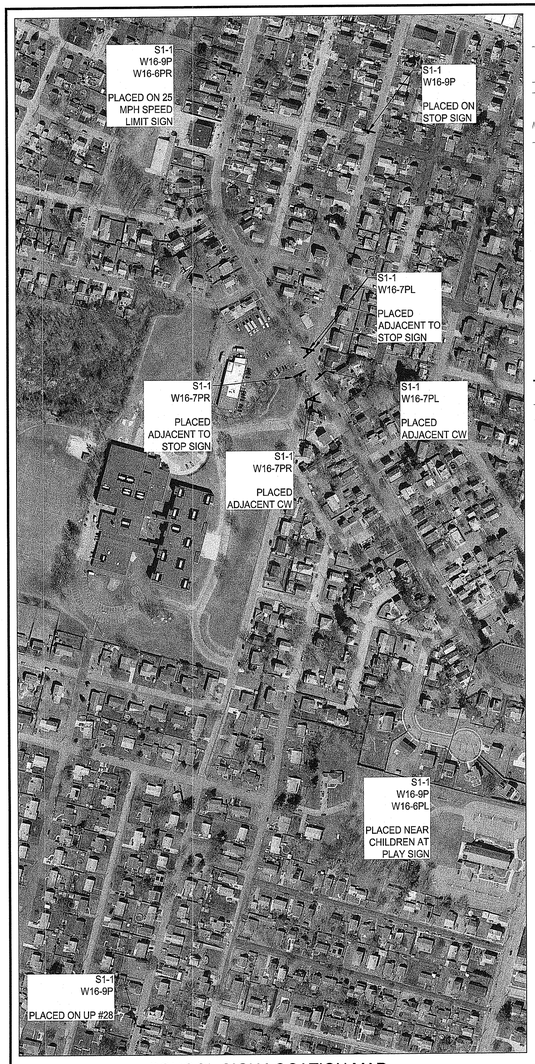
DRAWING TITLE:

Demolition & Erosion Control Plan 2

DRAWING NO.: C2.2

SHEET NO. 6 OF 47

Y:\2037\12_site\12037.05 (P School-Martin Middle Site Design-RI)\DWG\Demolition & Erosion Control.dwg



SCHOOL SIGN LOCATION MAP

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. ALL ACCESSIBLE RAMPS SHALL BE CONSTRUCTED WITH CAST IRON DETECTABLE WARNING PANELS.
3. 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.
4. REFER TO STRUCTURAL DRAWINGS FOR ALL CONCRETE ENTRANCE PADS AND ALL TYPICAL SECTIONS OF ENTRY WAYS.
5. REFER TO LANDSCAPE DRAWINGS FOR DIMENSIONS AND MATERIALS OF THE WALKS AND EXPANSION AND CONTROL JOINT LAYOUT.
6. 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.
7. COORDINATE FINAL QUANTITY AND PLACEMENT OF BOLLARDS SURROUNDING TRANSFORMER WITH RI ENERGY.
8. COORDINATE FINAL QUANTITY AND PLACEMENT OF BOLLARDS SURROUNDING GENERATOR WITH ELECTRICAL DRAWINGS, UTILITY COMPANY, AND MANUFACTURER'S RECOMMENDATIONS.
9. COORDINATE ALL SIGN PLACEMENT AND SIZE WITH OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
10. REFER TO "NOTES" FOR ADDITIONAL NOTES.

ALTERNATE 4

BASE BID TO INCLUDE LOAM AND SEED IN AREAS DESIGNATED FOR BASKETBALL COURTS AND WALK (RTLD)

ADD ALT TO INCLUDE SHOWN BASKETBALL COURTS, CONCRETE WALKS, PAVING, FENCING, POSTS, AND BASKETBALL HOOPS

ALTERNATE 16

BASE BID TO INCLUDE LOAM AND SEED IN PLACE OF CONCRETE WALK SHOWN

ADD ALT TO INCLUDE 6' WALK (RTLD) AND CURB RAMP CONNECTION TO CROSSWALK

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: JAN 02 2025 FILE #: 24-0154
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

SEP 12 2024

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

PARE

ARCHITECTS

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 3307 & 3315

DAVID L. POTTER
No. 8665
REGISTERED PROFESSIONAL ENGINEER

REVISIONS:

PROJECT NO.:	22037.05
DATE:	SEPTEMBER 12, 2024
SCALE:	1" = 30'
DESIGNED BY:	
CHECKED BY:	
DRAWN BY:	
APPROVED BY:	

DRAWING TITLE: General Plan 1

DRAWING NO.: C3.1

SHEET NO. 7 OF 47

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. ALL ACCESSIBLE RAMPS SHALL BE CONSTRUCTED WITH CAST IRON DETECTABLE WARNING PANELS.
3. 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.
4. REFER TO STRUCTURAL DRAWINGS FOR ALL CONCRETE ENTRANCE PADS AND ALL TYPICAL SECTIONS OF ENTRY WAYS.
5. REFER TO LANDSCAPE DRAWINGS FOR DIMENSIONS AND MATERIALS OF THE WALKS AND EXPANSION AND CONTROL JOINT LAYOUT.
6. 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.
7. COORDINATE FINAL QUANTITY AND PLACEMENT OF BOLLARDS SURROUNDING TRANSFORMER WITH RI ENERGY.
8. COORDINATE FINAL QUANTITY AND PLACEMENT OF BOLLARDS SURROUNDING GENERATOR WITH ELECTRICAL DRAWINGS, UTILITY COMPANY, AND MANUFACTURER'S RECOMMENDATIONS.
9. COORDINATE ALL SIGN PLACEMENT AND SIZE WITH OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
10. REFER TO "NOTES" FOR ADDITIONAL NOTES.

PROPOSED ADDITION 60,900 SF

EXISTING SCHOOL BUILDING "EDWARD R. MARTIN" MIDDLE SCHOOL

ASSESSORS PLAT 307 LOT 33-15 N/F CITY OF EAST PROVIDENCE DEED BOOK 308 PAGE 147 AREA BEING: 668,344 SQ. FT. 15.3431 ACRES

ASSESSORS PLAT 307 LOT 33-07 N/F CITY OF EAST PROVIDENCE AREA BEING: 553,865 SQ. FT. 12.7150 ACRES

MATCHLINE - SEE SHEET C3.1

"NO PARKING STUDENT PICKUP/ DROPOFF ONLY"

"RESERVED FOR VISITORS (RIGHT)"

"RESERVED FOR VISITORS (RIGHT/ LEFT)"

"RESERVED FOR VISITORS (LEFT)"

"RESERVED FOR PRINCIPAL"

"EVCS"

"EVCS" "ACCESSIBLE EV CHARGING USE LAST"

ELECTRICAL VEHICLE CHARGING STATIONS (2) RTED

ELECTRICAL VEHICLE CHARGING STATIONS RTED

"EVCS" (4)

ALTERNATE 11

BASE BID NO SIGNAGE OR BOLLARDS

ADD ALT TO INCLUDE SIGNS AND BOLLARDS AS SHOWN

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: JAN. 17, 2025 FILE #: 23-0191
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

PARE

EDWARD R. MARTIN MIDDLE SCHOOL EAST PROVIDENCE, RHODE ISLAND

Ai3 ARCHITECTS

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 3307 & 3315

DAVID L. POTTER
No. 8665
REGISTERED PROFESSIONAL ENGINEER
09.12.24

SEP 12 2024

REVISIONS:

PROJECT NO.:	22037.05
DATE:	SEPTEMBER 12, 2024
SCALE:	1" = 30'
DESIGNED BY:	
CHECKED BY:	
DRAWN BY:	
APPROVED BY:	
DRAWING TITLE:	General Plan 2
DRAWING NO.:	C3.2
SHEET NO.	8 OF 47

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

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.
2. 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.
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. PROVIDE NORTH AMERICAN GREEN PRODUCT SC150 OR APPROVED EQUIVALENT PERMANENT TURF REINFORCEMENT MAT FOR 1.5:1-2:1 SLOPES
8. REFER TO "NOTES" FOR ADDITIONAL NOTES.

FORM GUTTERLINE WITH PAVEMENT TO PREVENT RUNOFF FROM ROADWAY ENTERING SITE

ALTERNATE 4

ALTERNATE 16
BASE BID TO MATCH EXISTING GRADES
ADD ALT TO BE ADA ACCESSIBLE

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: JAN 02 2025 FILE #: 223-0151
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

PROVIDE NORTH AMERICAN GREEN PRODUCT SC150 OR APPROVED EQUIVALENT PERMANENT TURF REINFORCEMENT MAT FOR 1.5:1-2:1 SLOPES

100-YR FLOOD EL. 36.79 FT (NAVD 88) CALCULATED IN 2000. REFER TO "CIVIL NOTES AND LEGEND" REFERENCES FOR ADDITIONAL INFORMATION.

MATCHLINE - SEE SHEET C4.2

Scale: 1"=30'

PARE

EDWARD R. MARTIN MIDDLE SCHOOL EAST PROVIDENCE, RHODE ISLAND

Ai3 ARCHITECTS

RI Environmental Management
NOV 25 2024
Office of Water Resources

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 33-07 & 33-15

DAVID L. POTTER
No. 8665
11.22.24
REGISTERED PROFESSIONAL ENGINEER
STATE OF RHODE ISLAND

REVISIONS:

1	11/22/2024	RIDEM PERMIT MOD RTC

PROJECT NO.:	22037.05
DATE:	SEPTEMBER 12, 2024
SCALE:	1" = 30'
DESIGNED BY:	
CHECKED BY:	
DRAWN BY:	
APPROVED BY:	
DRAWING TITLE:	Grading Plan 1
DRAWING NO.:	C4.1
SHEET NO.	9 OF 47

36.79
100-YR FLOOD EL. 36.79 FT (NAVD 88) CALCULATED IN 2000. REFER TO "CIVIL NOTES AND LEGEND" REFERENCES FOR ADDITIONAL INFORMATION.

NOTES:

1. AT ALL LOCATIONS WHERE EXISTING CURBING OR PAVEMENT ARUT 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.
2. 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.
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. PROVIDE NORTH AMERICAN GREEN PRODUCT SC150 OR APPROVED EQUIVALENT PERMANENT TURF REINFORCEMENT MAT FOR 1.5:1-2:1 SLOPES
8. REFER TO "NOTES" FOR ADDITIONAL NOTES.

MATCHLINE - SEE SHEET C4.1

PROPOSED ADDITION 60,900 SF

EXISTING SCHOOL BUILDING "EDWARD R. MARTIN" MIDDLE SCHOOL

ASSESSORS PLAT 307 LOT 33-15 N/F CITY OF EAST PROVIDENCE DEED BOOK 308 PAGE 147 666,124 SQ.FT. 15.3431 ACRES

ASSESSORS PLAT 33-07 N/F CITY OF EAST PROVIDENCE AREA BEING 563,865 SQ. 12.7150 ACRES

ALTERNATE 11

COORDINATE FINAL GRADES WITH LANDSCAPE DRAWINGS AND STORAGE UNIT MANUFACTURER

MATCH EXISTING GRADES

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

RI Environmental Management
NOV 25 2024
Office of Water Resources

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JAN 02 2025 FILE #: 23-0154
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

DAVID L. POTTER
No. 8665
REGISTERED PROFESSIONAL ENGINEER
11.22.24

PARE

EDMUND R. MARTIN MIDDLE SCHOOL EAST PROVIDENCE, RHODE ISLAND

AI3 ARCHITECTS

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 33-07 & 33-15

REVISIONS:		
1	11/22/2024	RIDEM PERMIT MOD RTC

PROJECT NO.:	22037.05
DATE:	SEPTEMBER 12, 2024
SCALE:	1" = 30'
DESIGNED BY:	
CHECKED BY:	
DRAWN BY:	
APPROVED BY:	
DRAWING TITLE:	Grading Plan 2
DRAWING NO.:	C4.2
SHEET NO.	10 OF 47

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. REFER TO "CIVIL NOTES AND LEGEND" FOR ADDITIONAL NOTES.
9. REFER TO SHEET C5.3 FOR DRAINAGE RIM AND INVERT TABLE.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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DATED: JAN 02 2025 FILE #: 23-0151
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100-YR FLOOD EL. 36.79 FT (NAVD 88) CALCULATED IN 2000. REFER TO "CIVIL NOTES AND LEGEND" REFERENCES FOR ADDITIONAL INFORMATION.

MATCHLINE - SEE SHEET C5.2

Scale: 1"=30'

PARE

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 33-07 & 33-15

ARCHITECTS

RI Environmental Management
NOV 25 2024
Office of Water Resources

DAVID L. POTTER
No. 8665
REGISTERED PROFESSIONAL ENGINEER
11.22.24

REVISIONS:		
1	11/22/2024	RIDEM PERMIT MOD RTC

PROJECT NO.:	22037.05
DATE:	SEPTEMBER 12, 2024
SCALE:	1" = 30'
DESIGNED BY:	
CHECKED BY:	
DRAWN BY:	
APPROVED BY:	
DRAWING TITLE:	Drainage & Utility Plan 1
DRAWING NO.:	C5.1
SHEET NO.	11 OF 47

PROPOSED ADDITION 60,900 SF

MATCHLINE - SEE SHEET C5.1

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. REFER TO "CIVIL NOTES AND LEGEND" FOR ADDITIONAL NOTES.
9. REFER TO SHEET C5.3 FOR DRAINAGE RIM AND INVERT TABLE.

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

PARE

EDWARD R. MARTIN MIDDLE SCHOOL EAST PROVIDENCE, RHODE ISLAND

Ai3 ARCHITECTS

RECEIVED
NOV 25 2024
Office of Water Resources

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 33-07 & 33-15

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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DATED: JAN 02 2025 FILE #: 23-0151
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

DAVID L. POTTER
No. 8665
REGISTERED PROFESSIONAL ENGINEER
11.22.24

REVISIONS:		
1	11/22/2024	RIDEM PERMIT MOD RTC

PROJECT NO.:	22037.05
DATE:	SEPTEMBER 12, 2024
SCALE:	1" = 30'
DESIGNED BY:	
CHECKED BY:	
DRAWN BY:	
APPROVED BY:	

DRAWING TITLE:
Drainage & Utility Plan 2

DRAWING NO.:
C5.2

SHEET NO. 12 OF 47

DRAIN INVERT TABLE

STRUCTURE	RIM (FT)	INV. IN (FT)	INV. OUT (FT)
AD-2 (DOME GRATE)	46.50		41.85 SE
AD-3 (DOME GRATE)	41.90		38.90 S
AD-4 (DOME GRATE)	45.00		41.00 N
AD-5 (DOME GRATE)	51.50	48.50 E	48.10 W
AD-6 (DOME GRATE)	43.15		41.17 SE
AD-7 (DOME GRATE)	45.50	40.85 SE 43.00 N	40.85 W
AD-8 (DOME GRATE)	43.35		41.35 E
AD-9 (DOME GRATE)	42.10		40.00 E
AD-10 (DOME GRATE)	43.45	40.05 E	40.05 W
AD-11 (DOME GRATE)	43.00	40.15 N	40.15 S
AD-12 (DOME GRATE)	42.35	38.95 W 38.95 N	38.95 S
AD-13 (DOME GRATE)	42.60		40.60 S
AD-14 (DOME GRATE)	45.10	41.70 E	41.70 SW
AD-15 (DOME GRATE)	46.50		43.00 N
AD-16 (DOME GRATE)	47.20	41.00 NE 41.00 S	41.00 W
AD-17 (DOME GRATE)	46.50	41.50 S 41.50 N	41.50 W
CB-03 (DOME GRATE)	45.50	41.30 N	41.30 S
CB-04	51.00	46.50 S	46.50 N
CB-05	50.90	46.35 S 47.40 E	46.35 W
CB-08	41.70		38.20 E
CB-10 (DOME GRATE)	44.00	40.00 E	40.00 S
CB-11 (DOME GRATE)	43.50		39.75 W
CB-12 (DOME GRATE)	50.50	47.75 E 46.60 SE	46.60 N
CB-13 (6'DIA)	43.85	40.97 NW 40.97 W	40.97 NE
CB-14 (DG)	45.00		41.25 N
CB-15	44.85	41.45 E	41.45 N
CB-16 (DOME GRATE)	46.50	41.95 S 41.95 N	41.95 W
CB-17 (DOME GRATE)	42.50	38.40 S	37.90 N
CB-18 (DOME GRATE)	43.00	38.90 S	38.90 N
CB-19 (DOME GRATE)	43.00		39.50 N
CB-20 (DOME GRATE)	42.80	37.80 N	37.80 S

DRAIN INVERT TABLE

STRUCTURE	RIM (FT)	INV. IN (FT)	INV. OUT (FT)
CB-21	42.60	38.85 SE 38.85 S	38.85 NW
CB-22 (5'DIA)	42.60	39.35 E 39.35 S	39.35 W
CB-23	43.90	39.60 N	39.60 W
CB-24	45.65	41.25 N 41.25 NE 41.25 E	41.25 W
CB-25	43.30	39.80 E	39.80 W
CB-28 (DOME GRATE)	44.50	40.25 E	40.25 W
CB-29 (DOME GRATE)	50.00		46.50 W
CB-30	51.25	46.50 SE	46.50 W
CB-31	51.25	46.30 E 47.00 SW	43.20 N
CB-32	44.00	39.95 E	39.95 N
CB-33 (5'DIA)	45.50	40.40 S 40.40 NE	40.40 N
CB-34	44.70	40.70 N 40.70 E	40.70 SW
CB-35	43.00		39.85 W
CB-36 (DG)	42.70		39.85 SW
CB-37 (DOME GRATE)	42.75	37.90 S	37.90 NW
CB-38 (DOME GRATE)	42.50	38.90 S 39.60 E 38.85 N	38.85 W
DIV-02 (5'DIA)	44.00	39.15 S 39.15 E	39.15 W 39.15 N
DIV-03 (5'DIA)	43.45	38.50 E	38.45 W 38.45 S
DMH-6 (6'DIA)	46.40	40.55 E 40.55 N	40.55 W
DMH-9	44.00	39.15 E	39.15 W
DMH-10 (6'DIA)	42.30	35.45 E 37.90 N	35.45 W
DMH-11	42.70	38.50 E	38.50 SW
DMH-12 (5'DIA)	42.20	34.90 N 37.70 E	34.90 SW
DMH-13	43.05	37.70 W	37.10 N
DMH-14	44.20	39.65 N	39.65 W
DMH-15 (5'DIA)	43.90	39.10 S	39.10 W
DMH-16	43.60	39.40 S	39.40 W
DMH-18	39.20	34.62 SW	34.62 NE
DMH-19 (5'DIA)	39.35	35.00 E 34.80 S	34.80 NE
DMH-20 (5'DIA)	41.25	35.65 S 37.50 E	35.65 N
DMH-21	41.50	36.15 S	36.15 N

DRAIN INVERT TABLE

STRUCTURE	RIM (FT)	INV. IN (FT)	INV. OUT (FT)
DMH-22 (5'DIA)	41.70	36.60 S 36.60 E	36.60 N
DMH-23	43.25	39.40 W 39.40 NW	39.40 S
DMH-24 (5'DIA)	43.90	37.05 E 37.55 S	37.05 N
DMH-25 (6'DIA)	45.50	37.50 SE 37.50 N 37.50 E	37.50 W
DMH-26 (6'DIA)	43.80	38.70 SE 38.50 E	38.50 NW
DMH-27	44.05	39.50 E	39.50 NW
DMH-28	44.80	38.25 E 38.25 NE	38.25 N
DMH-29	44.50	40.00 S 40.00 E	40.00 N
DMH-30	49.50	45.00 E	45.00 W
DMH-31	48.70	41.60 S 40.80 E	40.80 N
DMH-32	45.20	41.15 S	41.15 N
DMH-33 (6'DIA)	44.85	40.67 S 40.67 SW	40.67 N
DMH-34	47.50	41.65 NW	41.65 S
DMH-35	43.10	37.90 SE	37.90 W
DMH-36	43.25	38.95 E	38.95 W
DMH-37	40.50	34.40 SW	34.28 N
DMH-38 (6'DIA)	42.20	37.50 E 34.65 NE	34.65 SW
DMH-39	46.90	40.50 S	40.50 E
DMH-40 (6'DIA)	43.70	39.75 NE 39.75 N	39.70 S
DMH-41	43.55	39.60 N 39.60 E	39.60 W
DMH-42 (6'DIA)	43.25	38.65 E 38.65 SE	38.65 W
DMH-43	42.60	39.20 E	39.20 NW
DMH-44	43.25	39.85 S	39.85 W
DMH-45	43.25	37.85 E 37.00 S	37.00 W 37.85 N
DMH-46	43.35	38.40 E 39.10 N	38.40 W 39.40 S
DMH-47	43.05	38.90 E 37.05 E	37.05 N
OCS-01 (5'DIA)	42.30	36.40 E 35.10 E 35.10 SE 37.85 NE 35.10 E	35.10 S
OCS-02 (5'DIA)	43.00	36.95 S 38.80 S 36.70 SE 36.70 SW	36.70 W
OWS	42.50	39.65 E 38.20 S	38.00 W

NOTE: THE FOLLOWING STRUCTURES WERE INSTALLED AS PART OF THE SITE ENABLING PACKAGE AND DO NOT SHOW UP ON THIS DRAINAGE TABLE: DMH 1, 2, 3, 4, 5, 7, 8, 17
CB 1, 6, 7, 9, 26, 27
AD 1

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: JAN 02 2025 FILE #: 23-0151
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

PARE

EDWARD R. MARTIN MIDDLE SCHOOL EAST PROVIDENCE, RHODE ISLAND

AI3 ARCHITECTS

RI Environmental Management
NOV 25 2024
Office of Water Resources

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 33-07 & 33-15

DAVID L. POTTER
No. 8665
REGISTERED PROFESSIONAL ENGINEER
11.22.24

REVISIONS:		
1	11/22/2024	RIDEM PERMIT MOD RTC

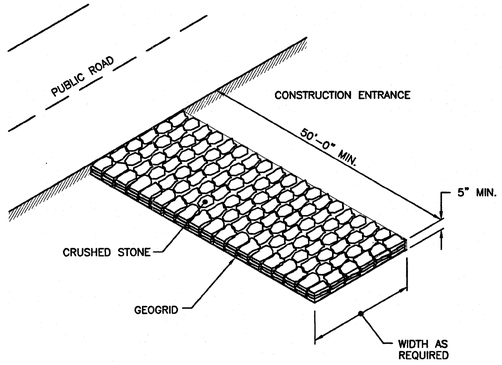
PROJECT NO.:	22037.05
DATE:	SEPTEMBER 12, 2024
SCALE:	1" = 30'
DESIGNED BY:	
CHECKED BY:	
DRAWN BY:	
APPROVED BY:	

DRAWING TITLE:
Drainage & Utility Plan 3

DRAWING NO.:
C5.3

SHEET NO. 13 OF 47

X:\JOBS\22_Jobs\22037.05 EP Schools-Martin Middle Sch Design-RI\DWG\Drainage & Utility.dwg



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

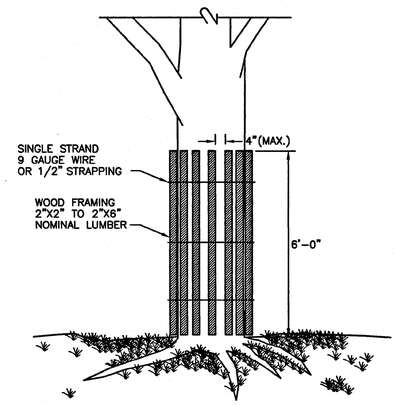
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS NO.	BY	DATE

CONSTRUCTION ACCESS

James K. Cigaldi, CHIEF ENGINEER TRANSPORTATION — Edmund A. Parker Jr., CHIEF DESIGN ENGINEER TRANSPORTATION — JUNE 15, 1998 ISSUE DATE

R.I. STANDARD 9.9.0



NOTE:
SHALL BE IN ACCORDANCE WITH SECTION L.11 OF THE STANDARD SPECIFICATIONS.

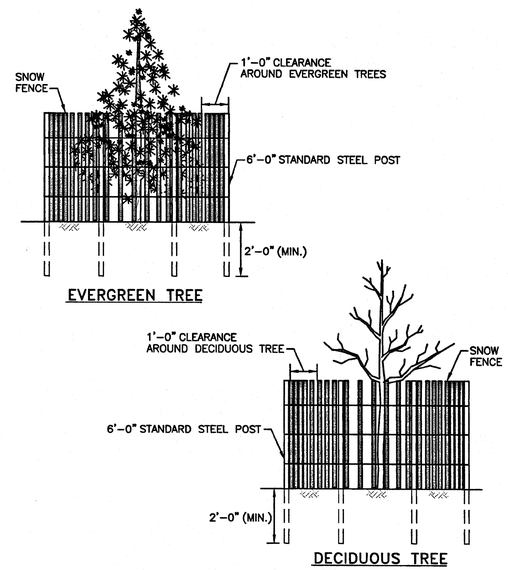
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS NO.	BY	DATE

TREE PROTECTION DEVICE

James K. Cigaldi, CHIEF ENGINEER TRANSPORTATION — Edmund A. Parker Jr., CHIEF DESIGN ENGINEER TRANSPORTATION — JUNE 15, 1998 ISSUE DATE

R.I. STANDARD 51.1.0



NOTE:
SHALL BE IN ACCORDANCE WITH SECTION L.11 OF THE R.I. STANDARD SPECIFICATIONS.

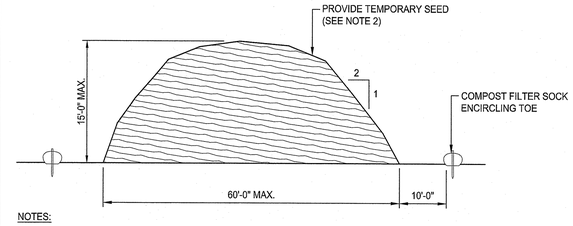
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS NO.	BY	DATE

DRIP LINE TREE PROTECTION DEVICE FOR EXISTING TREES

James K. Cigaldi, CHIEF ENGINEER TRANSPORTATION — Edmund A. Parker Jr., CHIEF DESIGN ENGINEER TRANSPORTATION — JUNE 15, 1998 ISSUE DATE

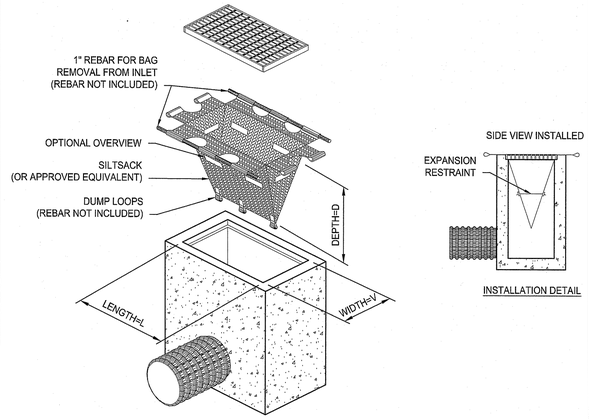
R.I. STANDARD 51.1.1



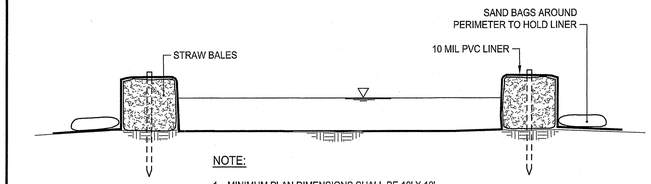
NOTES:

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.
3. CONTRACTOR SHALL NOT PLACE SOIL STOCKPILES OVER EXISTING UTILITIES OR MANHOLES WITHOUT PERMISSION FROM UTILITY COMPANY. CONTRACTOR IS RESPONSIBLE TO CONFIRM STOCKPILES DO NOT IMPACT UNDERGROUND UTILITIES.

ERODIBLE MATERIAL STOCKPILE
NOT TO SCALE

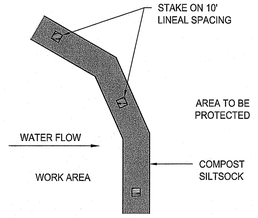


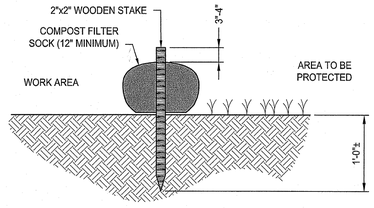
TEMPORARY INLET PROTECTION
NOT TO SCALE



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

CONCRETE WASHOUT FACILITY
NOT TO SCALE

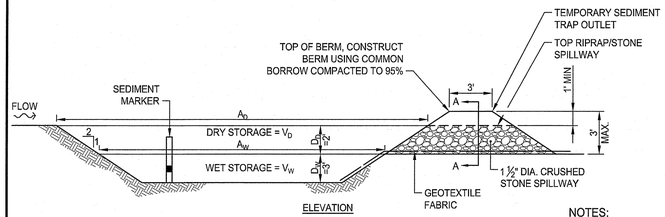


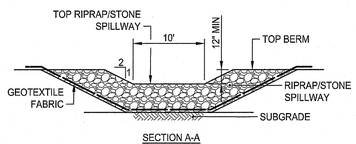


NOTES:

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





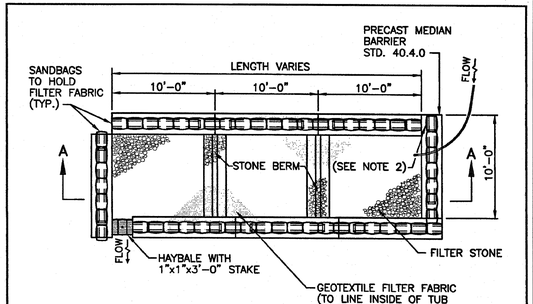
NOTES:

1. 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.

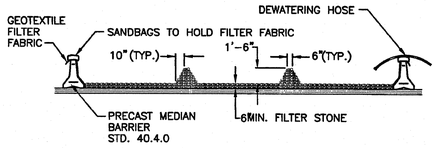
TST #	L_W (FT)	W_W (FT)	A_W (SF)	V_W (CF)	V_D (CF)	TOTAL STORAGE $V_W + V_D$ (CF)
TST-1	50	25	1,250	3,187	3,164	6,352
TST-2	60	30	1,800	4,590	4,384	8,974
TST-3	85	45	3,825	9,753.75	8,754	18,508
TST-4	80	50	4,000	10,200	9,104	19,304

TEMPORARY SEDIMENT TRAP 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: JAN 02 2025 FILE #: 23-0454
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



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

James K. Cigaldi, CHIEF ENGINEER TRANSPORTATION — Edmund A. Parker Jr., CHIEF DESIGN ENGINEER TRANSPORTATION — JUNE 15, 1998 ISSUE DATE

R.I. STANDARD 9.7.0

NOTE: CONTRACTOR SHALL PROVIDE A TANK OR OTHER MEANS FOR DEWATERING PRACTICES, AS REQUIRED.

PARE

EDWARD R. MARTIN MIDDLE SCHOOL, EAST PROVIDENCE, RHODE ISLAND

AI3 ARCHITECTS

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 3307 & 3315

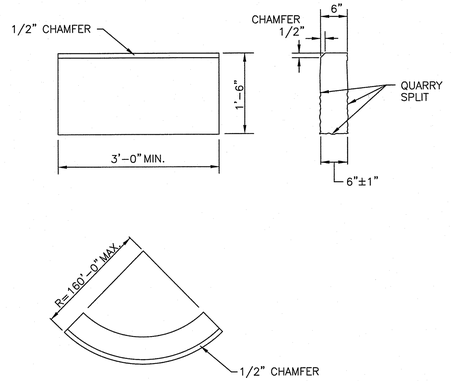
SEP 12 2024

DAVID L. POTTER
No. 8665
REGISTERED PROFESSIONAL ENGINEER
09.12.24

REVISIONS:

PROJECT NO.:	22037.05
DATE:	SEPTEMBER 12, 2024
SCALE:	NTS
DESIGNED BY:	
CHECKED BY:	
DRAWN BY:	
APPROVED BY:	
DRAWING TITLE:	Details - 1
DRAWING NO.:	C6.1
SHEET NO.	14 OF 47

P:\JOBS\22 Jobs\22037.05 EP Schools-Martin Middle Sch Design-SR\DWG\Details.dwg



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

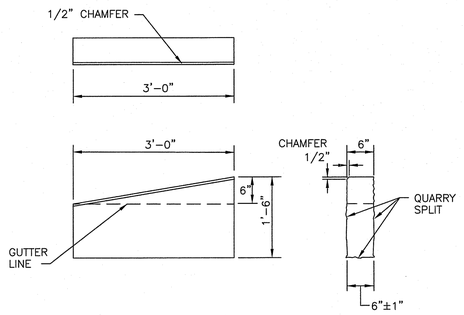
REVISIONS		
NO.	BY	DATE
1	MLP	Mar 2005
2	MLP	Sep 2012

GRANITE CURB

JUNE 15, 1998 (ISSUE DATE)

CHIEF ENGINEER TRANSPORTATION — CHIEF DESIGN ENGINEER TRANSPORTATION

R.I. STANDARD 7.3.0



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.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

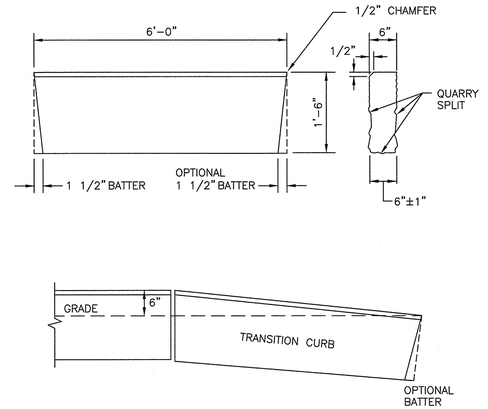
REVISIONS		
NO.	BY	DATE
1	MLP	Mar 2005
2	MLP	Jun 2010
3	MLP	Sep 2012

3'-0" GRANITE TRANSITION CURB

JUNE 15, 1998 (ISSUE DATE)

CHIEF ENGINEER TRANSPORTATION — CHIEF DESIGN ENGINEER TRANSPORTATION

R.I. STANDARD 7.3.1



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

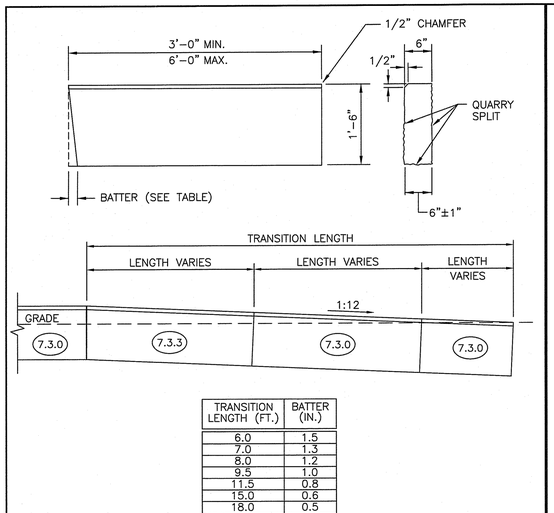
REVISIONS		
NO.	BY	DATE
1	MLP	Mar 2005
2	MLP	Sep 2012

6'-0" GRANITE TRANSITION CURB

JUNE 15, 1998 (ISSUE DATE)

CHIEF ENGINEER TRANSPORTATION — CHIEF DESIGN ENGINEER TRANSPORTATION

R.I. STANDARD 7.3.2



TRANSITION LENGTH (FT.)	BATTER (IN.)
6.0	1.5
7.0	1.3
8.0	1.2
9.5	1.0
11.5	0.8
15.0	0.6
18.0	0.5

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. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR CURB FILLER PIECES TO BE 3'-0" (GREATER LENGTHS PREFERRED).
4. TOP SURFACE TO BE DRESSED BY SAW. REMAINDER MAY BE QUARRY SPLIT.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

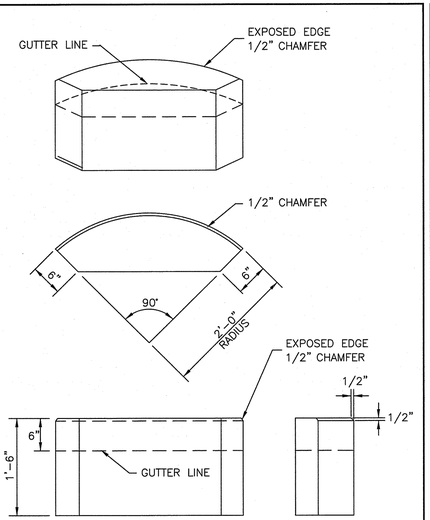
REVISIONS		
NO.	BY	DATE
1	MLP	Mar 2005
2	MLP	Jun 2012

GRANITE WHEELCHAIR RAMP TRANSITION CURB

JUNE 15, 1998 (ISSUE DATE)

CHIEF ENGINEER TRANSPORTATION — CHIEF DESIGN ENGINEER TRANSPORTATION

R.I. STANDARD 7.3.3



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.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

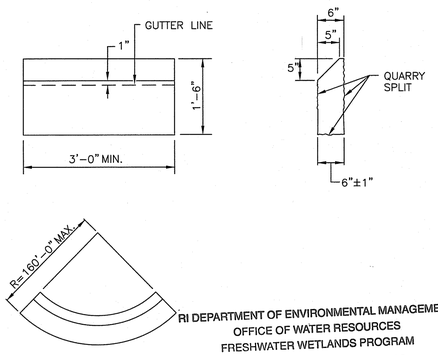
REVISIONS		
NO.	BY	DATE
1	MLP	Mar 2005
2	MLP	Sep 2012

GRANITE 2'-0" RADIUS CORNER

JUNE 15, 1998 (ISSUE DATE)

CHIEF ENGINEER TRANSPORTATION — CHIEF DESIGN ENGINEER TRANSPORTATION

R.I. STANDARD 7.3.4



CIRCULAR CURB

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: JAN 02 2025 FILE #: 23-0151
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. TOP SURFACE AND SLOPED SURFACE TO BE DRESSED BY SAW. REMAINDER TO 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

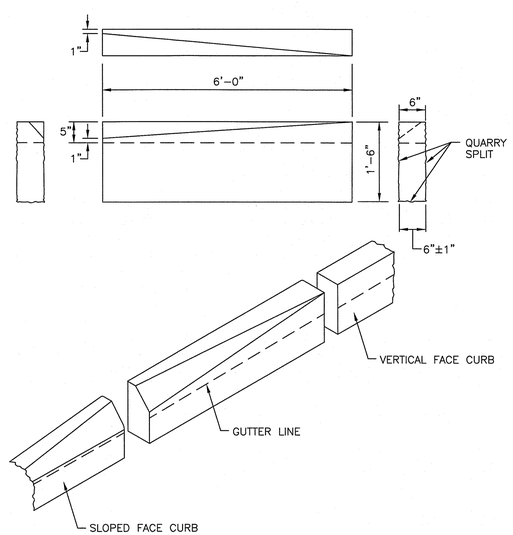
REVISIONS		
NO.	BY	DATE
1	MLP	Mar 05

GRANITE SLOPED FACE CURB

JUNE 15, 1998 (ISSUE DATE)

CHIEF ENGINEER TRANSPORTATION — CHIEF DESIGN ENGINEER TRANSPORTATION

R.I. STANDARD 7.4.0



NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
2. TOP SURFACE AND SLOPED SURFACE TO BE DRESSED BY SAW. REMAINDER TO BE QUARRY SPLIT.
3. DRAWING SHOWS TRANSITION CURB FOR ONE DIRECTION. FOR OTHER DIRECTION USE OPPOSITE HAND.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS		
NO.	BY	DATE
1	MLP	Mar 05

GRANITE TRANSITION CURB (VERTICAL FACE TO SLOPED FACE)

JUNE 15, 1998 (ISSUE DATE)

CHIEF ENGINEER TRANSPORTATION — CHIEF DESIGN ENGINEER TRANSPORTATION

R.I. STANDARD 7.4.2

PARE

EDWARD R. MARTIN MIDDLE SCHOOL EAST PROVIDENCE, RHODE ISLAND

AI3 ARCHITECTS

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 3307 & 3315

SEP 12 2024

DAVID L. POTTER — No. 8665 — REGISTERED PROFESSIONAL ENGINEER — 09.12.24

REVISIONS:

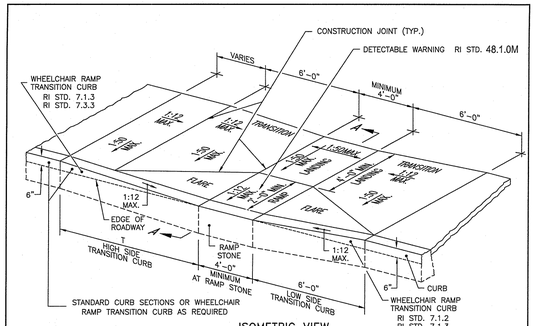
PROJECT NO.:	22037.05
DATE:	SEPTEMBER 12, 2024
SCALE:	NTS
DESIGNED BY:	
CHECKED BY:	
DRAWN BY:	
APPROVED BY:	

DRAWING TITLE: Details - 2

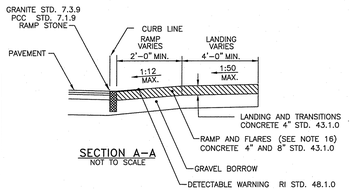
DRAWING NO.: C6.2

SHEET NO. 15 OF 47

X:\JOBS\22\22037.05 EP Schools-Martin Middle Site Design-RI\DWGS\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

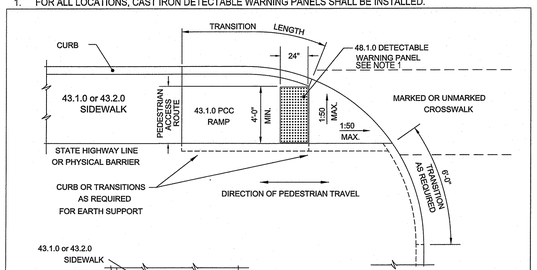
REVISIONS		
NO.	BY	DATE
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2	MLP	Jun 2009
3	MLP	Sep 2012

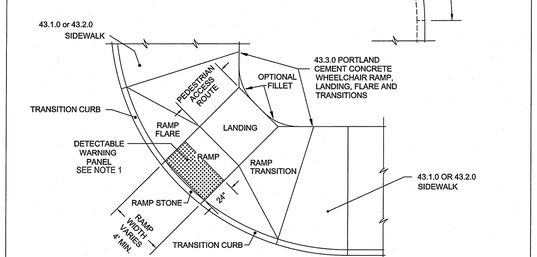
WHEELCHAIR RAMP

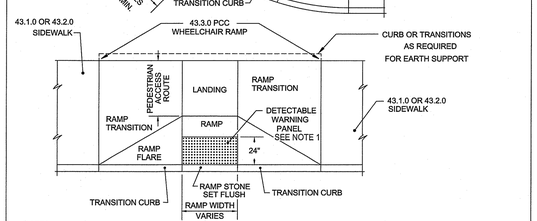
Jean K. Cyr — CHIEF ENGINEER TRANSPORTATION
Edward D. Parker Jr. — CHIEF DESIGN ENGINEER TRANSPORTATION
JUNE 15, 1998 — ISSUE DATE

R.I. STANDARD 43.3.0M

1. FOR ALL LOCATIONS, CAST IRON DETECTABLE WARNING PANELS SHALL BE INSTALLED.







NOTES
1. CONTRACTOR SHALL PROVIDE DETECTABLE WARNING PAVERS. REFER TO DETAIL. PLASTIC PANEL WILL NOT BE ACCEPTED.

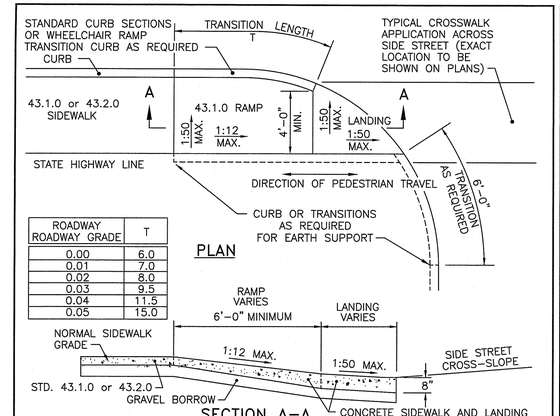
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

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

DETECTABLE WARNING PANEL PLACEMENT

Jean K. Cyr — CHIEF ENGINEER TRANSPORTATION
Edward D. Parker Jr. — CHIEF DESIGN ENGINEER TRANSPORTATION
JUNE 15, 1998 — ISSUE DATE

R.I. STANDARD 48.1.0M



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

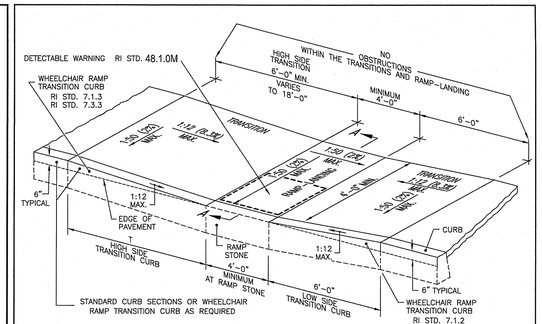
REVISIONS		
NO.	BY	DATE
1	MLP	Dec 2005
2	MLP	Sep 2012

WHEELCHAIR RAMP FOR LIMITED RIGHT–OF–WAY AREAS

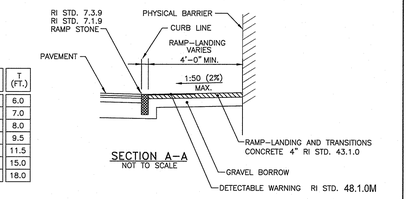
Jean K. Cyr — CHIEF ENGINEER TRANSPORTATION
Edward D. Parker Jr. — CHIEF DESIGN ENGINEER TRANSPORTATION
JUNE 15, 1998 — ISSUE DATE

R.I. STANDARD 43.3.1M

1. FOR ALL LOCATIONS, CAST IRON DETECTABLE WARNING PANELS SHALL BE INSTALLED.



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

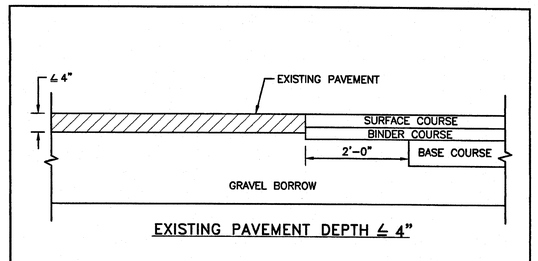
REVISIONS		
NO.	BY	DATE

RAMP–LANDING FOR NARROW SIDEWALK

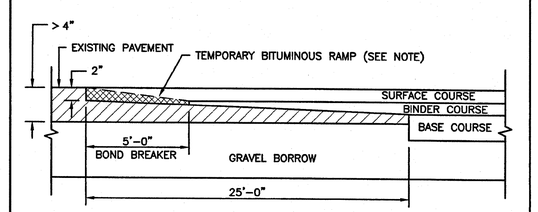
CHIEF ENGINEER TRANSPORTATION
CHIEF DESIGN ENGINEER TRANSPORTATION
MARCH 31, 2015 — ISSUE DATE

R.I. STANDARD 43.3.2M

1. FOR ALL LOCATIONS, CAST IRON DETECTABLE WARNING PANELS SHALL BE INSTALLED.



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.

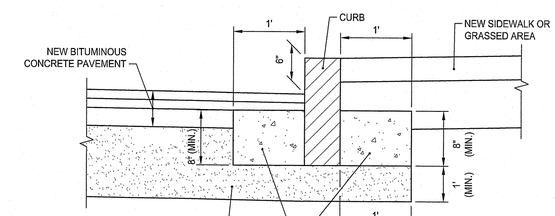
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS		
NO.	BY	DATE

TRANSVERSE PAVEMENT CUT AND MATCH

Jean K. Cyr — CHIEF ENGINEER TRANSPORTATION
Edward D. Parker Jr. — CHIEF DESIGN ENGINEER TRANSPORTATION
JUNE 15, 1998 — ISSUE DATE

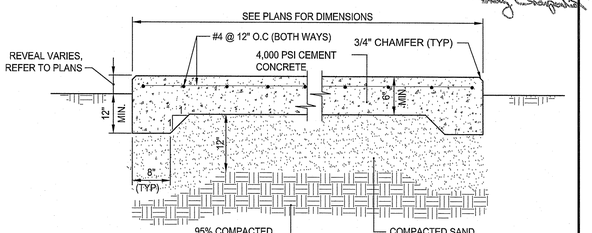
R.I. STANDARD 47.1.1



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

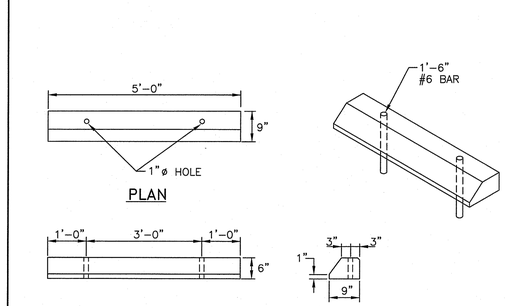
CURB SETTING DETAIL
NOT TO SCALE

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: JAN 02 2025 FILE #: 23-0161
ANY CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



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.
3. COMPACT SUBGRADE WITH 6 OVERLAPPING PASSES OF A VIBRATORY ROLLER IN ACCORDANCE WITH GEOTECHNICAL REPORT. WHERE SOFT ZONES ARE OBSERVED, REMOVE SOFT SOIL AND REPLACE WITH COMPACTED COMMON BORROW.
4. REMOVE BURIED ORGANIC SOIL TO A DEPTH OF 2 FEET BENEATH SUBGRADE. PROOFROLL SUBGRAE WITH LOADED RUBBER TIRE TRUCK. WHERE SOFT ZONES ARE ENCOUNTERED, REMOVE SOFT SOIL AND REPLACE WITH COMPACTED COMMON BORROW.
5. SAND GRAVEL FILL BENEATH CEMENT CONCRETE PAD SHALL HAVE NO MORE THAN 5% PASSING NO. 200 SIEVE.

CEMENT CONCRETE PAD
NOT TO SCALE



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.

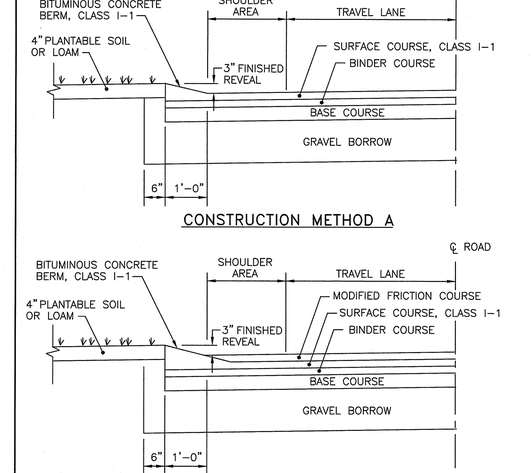
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS		
NO.	BY	DATE
1	MLP	Mar 05

PRECAST CONCRETE CAR STOPS

Jean K. Cyr — CHIEF ENGINEER TRANSPORTATION
Edward D. Parker Jr. — CHIEF DESIGN ENGINEER TRANSPORTATION
JUNE 15, 1998 — ISSUE DATE

R.I. STANDARD 7.2.4



CONSTRUCTION METHOD A

CONSTRUCTION METHOD B

NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
2. BITUMINOUS BERM CAN BE PLACED AT THE SAME TIME THAT THE SURFACE COURSE LAYER IS PLACED ON THE PROJECT ROADWAY, OR IT CAN BE INSTALLED IN A SEPARATE OPERATION.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS		
NO.	BY	DATE
1	MLP	Mar 05

BITUMINOUS BERM

Jean K. Cyr — CHIEF ENGINEER TRANSPORTATION
Edward D. Parker Jr. — CHIEF DESIGN ENGINEER TRANSPORTATION
JUNE 15, 1998 — ISSUE DATE

R.I. STANDARD 7.5.1

PARE

EDWARD R. MARTIN MIDDLE SCHOOL
EAST PROVIDENCE, RHODE ISLAND

AI3 ARCHITECTS

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 3307 & 3315

SEP 12 2024

DAVID L. POTTER
No. 8665
REGISTERED PROFESSIONAL ENGINEER
STATE OF RHODE ISLAND

REVISIONS:

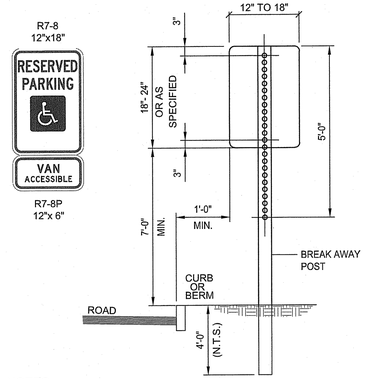
PROJECT NO.:	22037.05
DATE:	SEPTEMBER 12, 2024
SCALE:	NTS
DESIGNED BY:	
CHECKED BY:	
DRAWN BY:	
APPROVED BY:	

DRAWING TITLE:
Details - 3

DRAWING NO.:
C6.3

SHEET NO. 16 OF 47

V:\J22037.22 - John L.2\22037.05 EP Schools-Martin Middle Site Design-(8)\DWG\Details.dwg

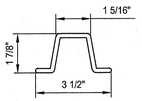


NOTE:

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



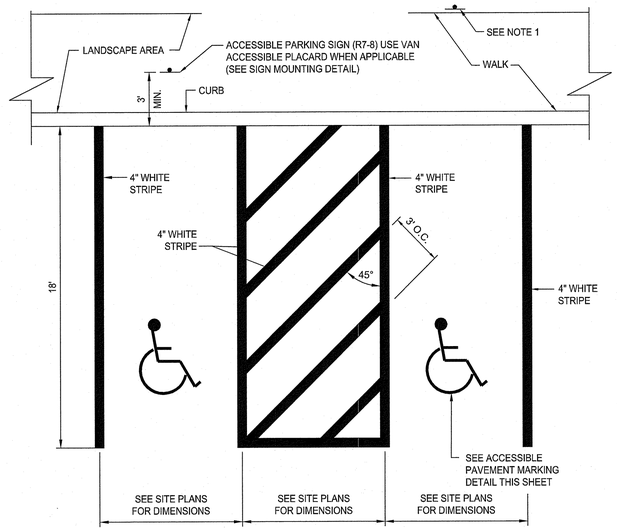
PARKING SIGNS SHALL BE SET AT AN ANGLE OF NOT LESS THAN 30° NOR MORE THAN 45° IN A LINE PARALLEL TO THE FLOW OF TRAFFIC.

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

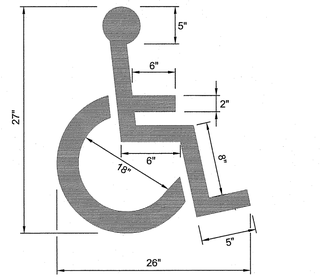


NOTES:

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

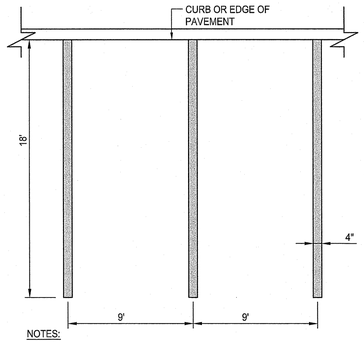


NOTE:

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

ACCESSIBLE PAVEMENT MARKING

NOT TO SCALE

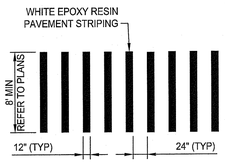


NOTES:

1. COORDINATE PAVEMENT MARKING COLORS WITH PLANS.
2. ALL PARKING PAVEMENT MARKINGS SHALL BE EPOXY RESIN, CONFORMING TO THE SPECIFICATIONS.

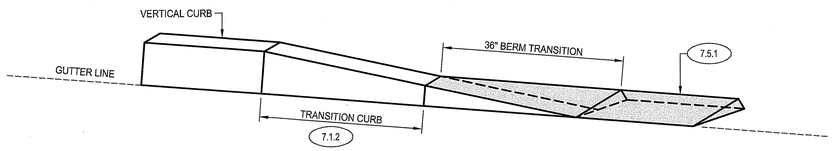
TYPICAL PARKING STALL

NOT TO SCALE



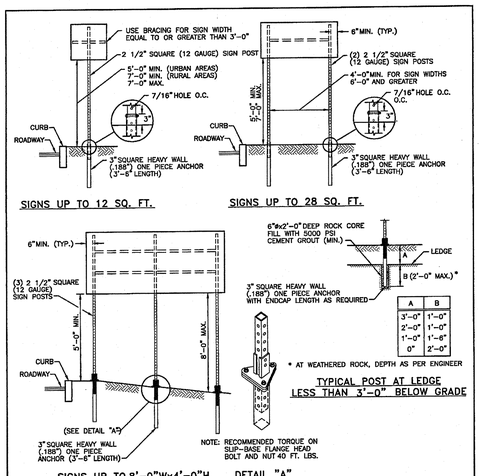
TYPICAL CROSSWALK DETAIL

NOT TO SCALE



BIT. BERM TRANSITION TO CURB

NOT TO SCALE



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 EDGE OF CURB IN RURAL AREAS.
7. INSTALLATION PROCEDURES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
8. BREAKAWAY SIGN SUPPORTS SHALL BE FABRICATED FROM STEEL AND SHALL CONFORM TO THE BREAKAWAY DESIGN SHOWN ON THIS SHEET.
9. STEEL POSTS SHALL CONFORM TO ASTM-A361, Fy= 55 KSI. THE CROSS SECTION OF THE POST SHALL BE SQUARE TUBE FORMED OF 12 GAUGE (.105" U.S.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".
10. ALL BOLTS SHALL CONFORM TO ASTM-A307, CLASS A.
11. ALL BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED AS PER ASTM-A153.
12. 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)

JUNE 15, 1998 ISSUE DATE

R.I. STANDARD 24.1.0

LEGEND	DESIGNATION	SIZE
STOP	R1-1	(30" x 30")
DO NOT ENTER	R5-1	(30" x 30")
AUTHORIZED VEHICLES ONLY	R5-11	(30" x 24")
ONE WAY	R6-1L	(36" x 12")
RESERVED PARKING	R7-8	(12" x 18")
VAN ACCESSIBLE	R7-8P	(12" x 6")
	S1-1	(30" x 30")
	W16-7P	(12" x 24")
NO IDLING	NO IDLING	(12" x 18")
AHEAD	W16-9P	(12" x 24")

LEGEND	DESIGNATION	SIZE
	GENERAL DIRECTIONAL SIGN, REFER TO PLANS FOR TEXT	(30" x 30") OR AS REQUIRED
ELECTRIC VEHICLE CHARGING AND CHARGING ONLY	EVCS	(12" x 18")
NO SMOKING	NO SMOKING	(24" x 36")
RESERVED	RESERVED	(12" x 18")
USE LAST DESIGNED FOR ACCESSIBILITY	ACCESSIBLE EV CHARGING USE LAST	(12" x 6")
VISITOR PARKING	VISITOR (RIGHT)	(12" x 18")
VISITOR PARKING	VISITOR (LEFT)	(12" x 18")
VISITOR PARKING	VISITOR (RIGHT/LEFT)	(12" x 18")
	W16-6PL	(24" x 24")
	W16-6PR	(24" x 24")

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. R7-8 AND R7-8P SHALL CONFORM TO ACCESSIBLE SIGN MOUNTING DETAIL.

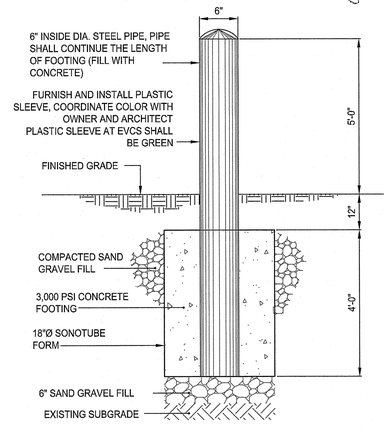
SIGN SCHEDULE

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

APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL

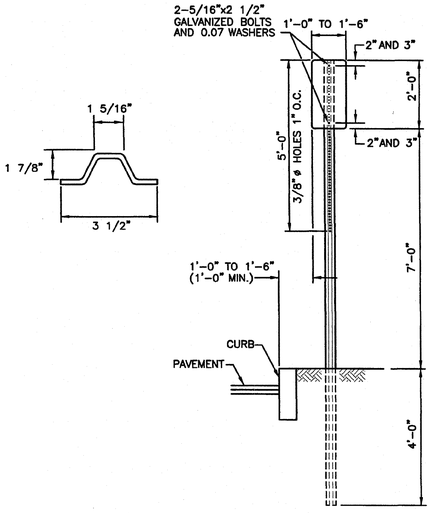
DATED: JAN 02 2025 FILE #: 23-0151

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



BOLLARD DETAIL

NOT TO SCALE



NOTES:

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

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS NO.	BY	DATE

PARKING SIGN MOUNTING DETAIL

JUNE 15, 1998 ISSUE DATE

R.I. STANDARD 24.6.0

PARE

EDWARD R. MARTIN MIDDLE SCHOOL EAST PROVIDENCE, RHODE ISLAND

AI3 ARCHITECTS

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 3307 & 3315

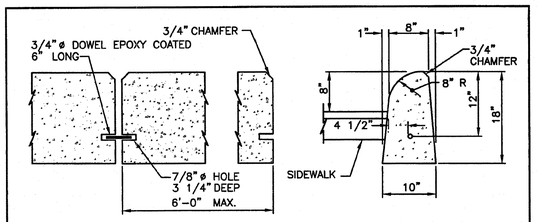
SEP 12 2024

DAVID L. POTTER
No. 8665
REGISTERED PROFESSIONAL ENGINEER
09.12.24

REVISIONS:

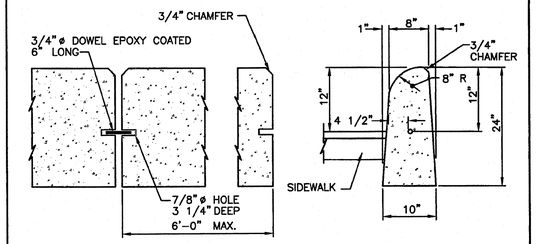
PROJECT NO.:	22037.05
DATE:	SEPTEMBER 12, 2024
SCALE:	NTS
DESIGNED BY:	
CHECKED BY:	
DRAWN BY:	
APPROVED BY:	
DRAWING TITLE:	Details - 4
DRAWING NO.:	C6.4
SHEET NO.	17 OF 47

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LONGITUDINAL SECTION @ JOINT END SECTION

1'-6" LOT CURB



LONGITUDINAL SECTION @ JOINT END SECTION

2'-0" LOT CURB

NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
2. 1/8" JOINTS DOWELED WITH A 3/4" ø DOWEL 6" LONG.
3. TOP AND EXPOSED SURFACES TO H+ 2" TO HAVE A SPONGE FLOAT FINISH.

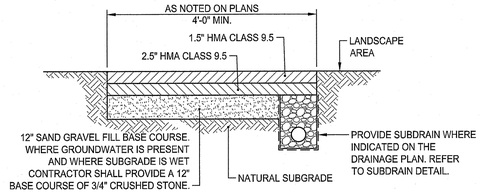
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS		
NO.	BY	DATE

PRECAST CONCRETE LOT CURB

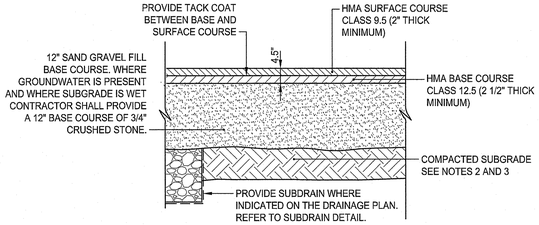
James R. Cahill, Jr. — CHIEF ENGINEER TRANSPORTATION
Edmund Parker Jr. — CHIEF DESIGN ENGINEER TRANSPORTATION
JUNE 15, 1998 — ISSUE DATE

R.I. STANDARD 7.2.3



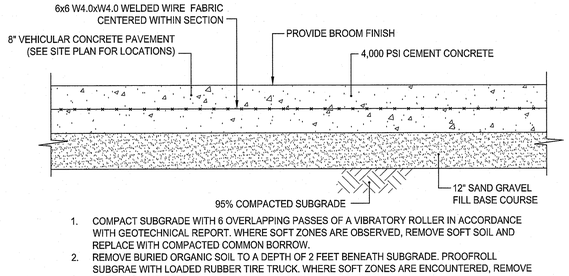
NOTE:
1. SUBMIT JOB MIX FORMULAS TO ENGINEER FOR APPROVAL PRIOR TO PLACEMENT.
2. COMPACT SUBGRADE WITH 6 OVERLAPPING PASSES OF A VIBRATORY ROLLER IN ACCORDANCE WITH GEOTECHNICAL REPORT. WHERE SOFT ZONES ARE OBSERVED, REMOVE SOFT SOIL AND REPLACE WITH COMPACTED COMMON BORROW.
3. REMOVE BURIED ORGANIC SOIL TO A DEPTH OF 2 FEET BENEATH SUBGRADE. PROOFROLL SUBGRADE WITH LOADED RUBBER TIRE TRUCK. WHERE SOFT ZONES ARE ENCOUNTERED, REMOVE SOFT SOIL AND REPLACE WITH COMPACTED COMMON BORROW.

HOT MIX ASPHALT SIDEWALK
NOT TO SCALE



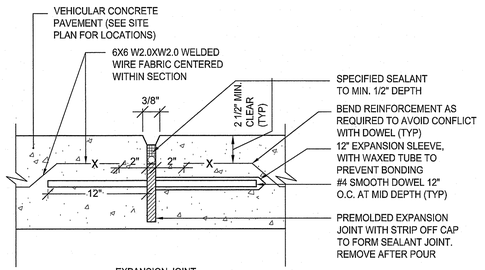
NOTE:
1. SUBMIT JOB MIX FORMULAS TO ENGINEER FOR APPROVAL PRIOR TO PLACEMENT.
2. COMPACT UPGRADE WITH 6 OVERLAPPING PASSES OF A VIBRATORY ROLLER IN ACCORDANCE WITH GEOTECHNICAL REPORT. WHERE SOFT ZONES ARE OBSERVED, REMOVE SOFT SOIL AND REPLACE WITH COMPACTED COMMON BORROW.
3. REMOVE BURIED ORGANIC SOIL TO A DEPTH OF 2 FEET BENEATH SUBGRADE. PROOFROLL SUBGRADE WITH LOADED RUBBER TIRE TRUCK. WHERE SOFT ZONES ARE ENCOUNTERED, REMOVE SOFT SOIL AND REPLACE WITH COMPACTED COMMON BORROW.
4. COORDINATE WITH THE CITY OF EAST PROVIDENCE FOR PAVEMENT COMPOSITION WITHIN THE RIGHT OF WAY.

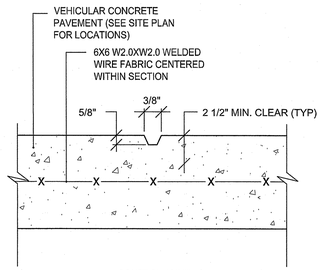
HOT MIX ASPHALT PAVEMENT
NOT TO SCALE



1. COMPACT SUBGRADE WITH 6 OVERLAPPING PASSES OF A VIBRATORY ROLLER IN ACCORDANCE WITH GEOTECHNICAL REPORT. WHERE SOFT ZONES ARE OBSERVED, REMOVE SOFT SOIL AND REPLACE WITH COMPACTED COMMON BORROW.
2. REMOVE BURIED ORGANIC SOIL TO A DEPTH OF 2 FEET BENEATH SUBGRADE. PROOFROLL SUBGRAE WITH LOADED RUBBER TIRE TRUCK. WHERE SOFT ZONES ARE ENCOUNTERED, REMOVE SOFT SOIL AND REPLACE WITH COMPACTED COMMON BORROW.
3. SAND GRAVEL FILL BENEATH VEHICULAR CONCRETE SHALL HAVE NO MORE THAN 5% PASSING NO. 200 SIEVE.

VEHICULAR CONCRETE PAVEMENT DETAIL
NOT TO SCALE

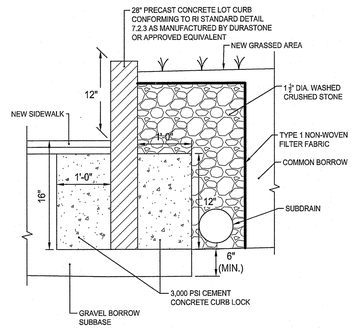




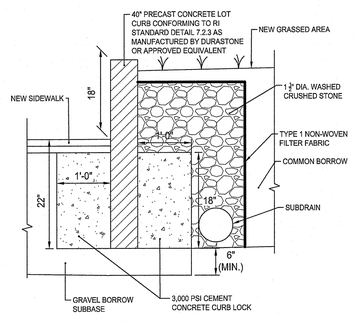
NOTES:
1. EXPANSION JOINTS (E.J.) 20' O.C. UNLESS OTHERWISE NOTED.
2. CONTROL JOINTS (C.J.) 5' O.C. UNLESS OTHERWISE NOTED.
3. WHERE EXISTING AND NEW CONCRETE SIDEWALKS MEET, SAWCUT EXISTING WALK AND INSTALL EXPANSION JOINT AND DOWELS AS SHOWN. DRILL EXISTING CONCRETE WALK EDGE TO RECEIVE STEEL DOWELS AT EXPANSION JOINT.

EXPANSION AND CONTROL JOINTS FOR VEHICULAR CONCRETE PAVING
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: JAN 02 2025 FILE #: 23-2051
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

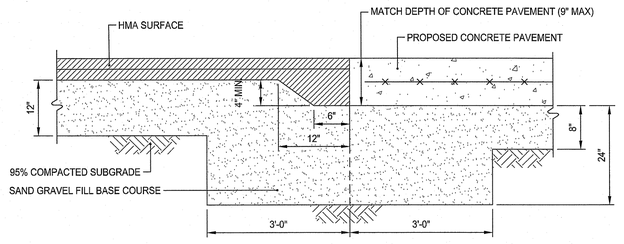


28" PRECAST LOT CURB SETTING DETAIL
NOT TO SCALE



40" PRECAST LOT CURB SETTING DETAIL
NOT TO SCALE

PRECAST LOT CURB SETTING DETAIL
NOT TO SCALE



ASPHALT TURNDOWN DETAIL
NOT TO SCALE

PARE

ARCHITECTS

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 3307 & 3315

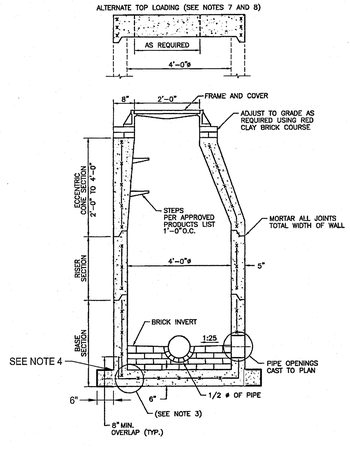
SEP 12 2024

DAVID L. POTTER
No. 8665
REGISTERED PROFESSIONAL ENGINEER
9.11.24

REVISIONS:

PROJECT NO.:	22037.05
DATE:	SEPTEMBER 12, 2024
SCALE:	NTS
DESIGNED BY:	
CHECKED BY:	
DRAWN BY:	
APPROVED BY:	
DRAWING TITLE:	Details - 5
DRAWING NO.:	C6.5
SHEET NO.	18 OF 47

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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.

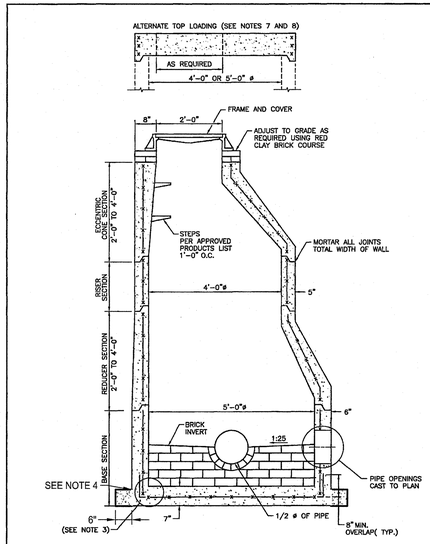
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS NO.	BY	DATE

PRECAST 4'-0" ROUND MANHOLE

JUNE 15, 1998 ISSUE DATE

R.I. STANDARD 4.2.0M



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.
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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.

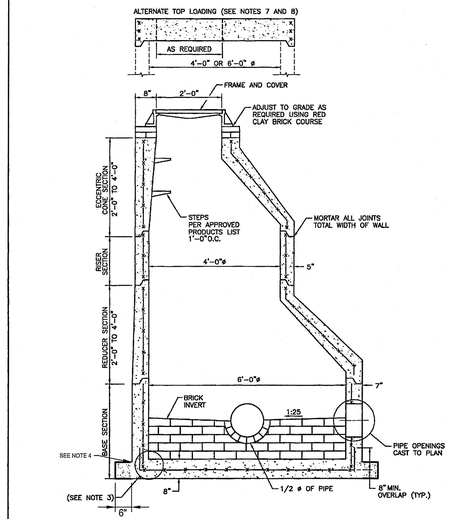
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS NO.	BY	DATE

PRECAST 5'-0" ROUND MANHOLE

JUNE 15, 1998 ISSUE DATE

R.I. STANDARD 4.2.1M



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

REVISIONS NO.	BY	DATE

PRECAST 6'-0" ROUND MANHOLE

JUNE 15, 1998 ISSUE DATE

R.I. STANDARD 4.2.2M

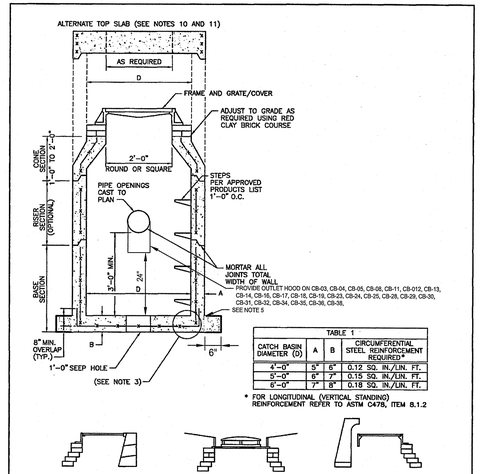


TABLE 1			
CATCH BASIN DIAMETER (D)	A	B	CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED*
4'-0"	5"	6"	0.12 SQ. IN./LIN. FT.
5'-0"	6"	7"	0.15 SQ. IN./LIN. FT.
6'-0"	7"	8"	0.18 SQ. IN./LIN. FT.

* 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 "F" 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.

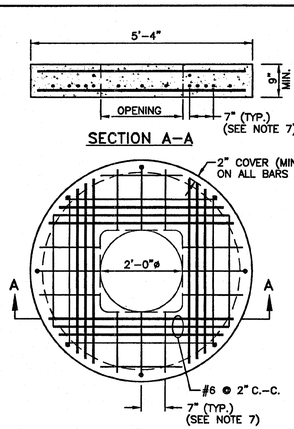
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS NO.	BY	DATE

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

JUNE 15, 1998 ISSUE DATE

R.I. STANDARD 4.4.0M



NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
2. THE CENTERLINE OF THE OPENING MUST BE WITHIN 2'-0" FROM THE STEPS.
3. TOP SLAB HAS BEEN REINFORCED TO MEET OR EXCEED H-25 OR HS-25 LOADINGS WITH EARTH PRESSURES INCLUDED. THIS IMPLIES THAT THE TOP SLAB IS DESIGNED FOR AXLE LOADS OF NO MORE THAN 20 TONS.
4. ALL REBARS ARE TO HAVE A MINIMUM 2" CLEARENCE FROM OPENING.
5. PRECAST SECTION SHALL BE LIFTED USING APPROVED LIFTING LUGS LOCATED SUCH THAT NO DAMAGE TO THE SLAB OCCURS.
6. DOWEL HOLES IN COVER TO BE FORMED OR CORED BY THE FABRICATOR.
7. ALL REBARS IN THE BOTTOM MAT ARE #5 @ 7", BOTH WAYS, WITH 2" MINIMUM COVER, EXCEPT FOR REBARS ADJACENT TO THE OPENING. THESE REBARS SHALL BE #6 (SHOWN WITH HEAVIER LINE FOR CLARITY). REBARS IN THE TOP MAT ARE #6 BARS PLACED ADJACENT TO THE OPENING, BOTH WAYS, WITH 2" MINIMUM COVER.

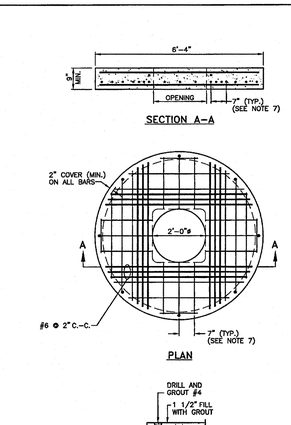
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS NO.	BY	DATE

CONCRETE COVER FOR SHALLOW 4'-0" ROUND MANHOLES

JUNE 15, 1998 ISSUE DATE

R.I. STANDARD 4.6.0



NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
2. THE CENTERLINE OF THE OPENING MUST BE WITHIN 2'-0" FROM THE STEPS.
3. TOP SLAB HAS BEEN REINFORCED TO MEET OR EXCEED H-25 OR HS-25 LOADINGS WITH EARTH PRESSURES INCLUDED. THIS IMPLIES THAT THE TOP SLAB IS DESIGNED FOR AXLE LOADS OF NO MORE THAN 20 TONS.
4. ALL REBARS ARE TO HAVE A MINIMUM 2" CLEARENCE FROM OPENING.
5. PRECAST SECTION SHALL BE LIFTED USING APPROVED LIFTING LUGS LOCATED SUCH THAT NO DAMAGE TO THE SLAB OCCURS.
6. DOWEL HOLES IN COVER TO BE FORMED OR CORED BY THE FABRICATOR.
7. ALL REBARS IN THE BOTTOM MAT ARE #5 @ 7", BOTH WAYS, WITH 2" MINIMUM COVER, EXCEPT FOR REBARS ADJACENT TO THE OPENING. THESE REBARS SHALL BE #6 (SHOWN WITH HEAVIER LINE FOR CLARITY). REBARS IN THE TOP MAT ARE #6 BARS PLACED ADJACENT TO THE OPENING, BOTH WAYS, WITH 2" MINIMUM COVER.

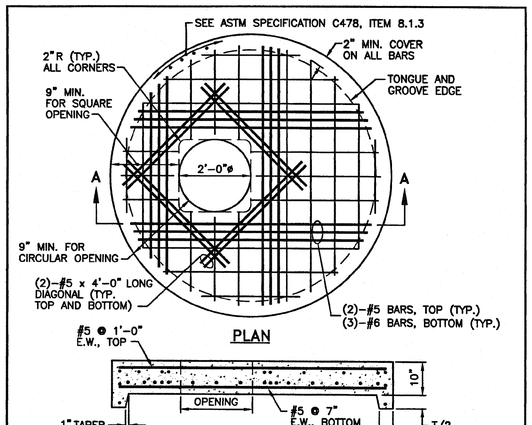
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS NO.	BY	DATE

CONCRETE COVER FOR SHALLOW 5'-0" ROUND MANHOLES

JUNE 15, 1998 ISSUE DATE

R.I. STANDARD 4.6.1



NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
2. 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.
3. THE CENTER LINE OF THE OPENING MUST BE WITHIN 2" FROM THE STEPS.
4. ALTERNATE TOP COVER IS STEEL REINFORCED TO MEET OR EXCEED H-25 OR HS-25 LOADINGS WITH EARTH PRESSURES INCLUDED. THIS IMPLIES THAT THE TOP SLAB IS DESIGNED FOR AXLE LOADS OF NO MORE THAN 20 TONS.
5. ALL REBAR SHALL HAVE A MINIMUM OF 2" CLEARANCE FROM OPENING.
6. ALL REBARS IN THE BOTTOM MAT ARE #5 @ 2", BOTH WAYS, WITH 2" MINIMUM COVER, EXCEPT FOR REBARS ADJACENT TO THE OPENING. THESE BARS SHALL BE (3)-#6 SHOWN WITH A HEAVIER LINE FOR CLARITY). REBARS IN THE TOP MAT ARE #5 @ 1'-0", BOTH WAYS, WITH 2" MINIMUM COVER, EXCEPT FOR REBARS ADJACENT TO THE OPENING. THESE BARS SHALL BE (2)-#5 BARS.

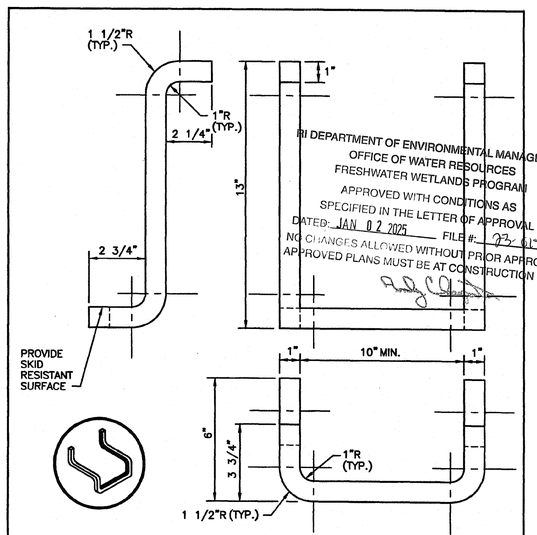
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS NO.	BY	DATE

ALTERNATE TOP COVER FOR ROUND PRECAST MANHOLES AND CATCH BASINS

JUNE 15, 1998 ISSUE DATE

R.I. STANDARD 4.7.2



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: JAN 02 2025 FILE #: 23-0151
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

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

REVISIONS NO.	BY	DATE

CATCH BASIN AND MANHOLE STEP

JUNE 15, 1998 ISSUE DATE

R.I. STANDARD 5.3.0

PARE

EDWARD R. MARTIN MIDDLE SCHOOL EAST PROVIDENCE, RHODE ISLAND

AI3 ARCHITECTS

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 3307 & 3315

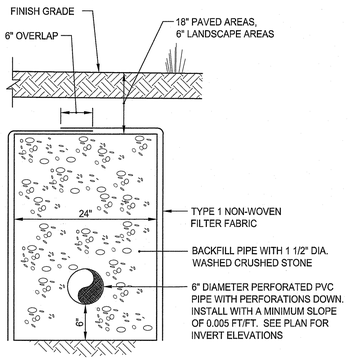
SEP 12 2024

DAVID L. POTTER
No. 8665
REGISTERED PROFESSIONAL ENGINEER
STATE OF RHODE ISLAND

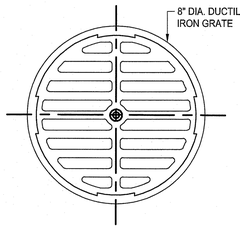
REVISIONS:		
2	10/26/23	RIDEM RTC
3	11/27/23	RIDEM RTC

PROJECT NO.: 22037.05
DATE: SEPTEMBER 12, 2024
SCALE: NTS
DESIGNED BY:
CHECKED BY:
DRAWN BY:
APPROVED BY:
DRAWING TITLE: Details - 6
DRAWING NO.: C6.6
SHEET NO. 19 OF 47

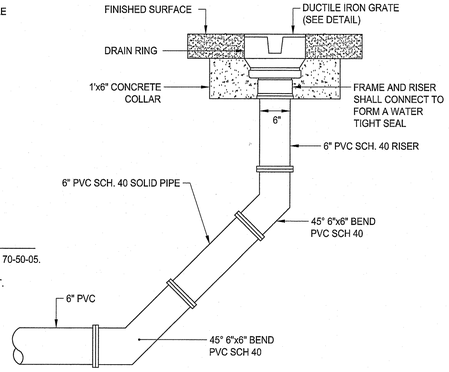
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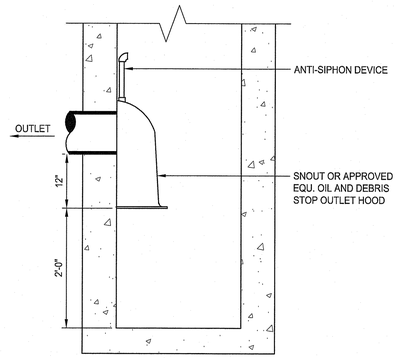
SUBDRAIN DETAIL
NOT TO SCALE



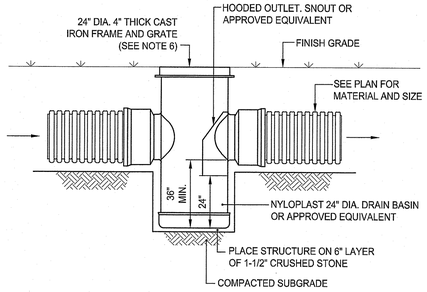
NOTES:
1. MATERIALS SHALL CONFORM TO ASTM A 536 GRADE 70-50-05.
2. CASTING SHALL BE FURNISHED WITH A BLACK PAINT.
3. GRATE SHALL BE ADA COMPLIANT.



YARD DRAIN DETAIL
NOT TO SCALE

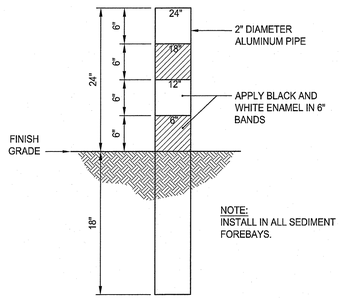


OUTLET HOOD DETAIL
NOT TO SCALE

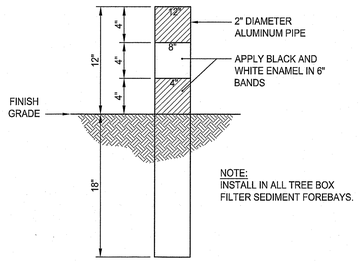


NOTES:
1. DRAIN BASIN SHALL BE CUSTOM MANUFACTURED FOR THE PROJECT WITH THE INLETS AND OUTLETS REQUIRED.
2. STRUCTURES SHALL BE CONSTRUCTED TO WITHSTAND LOADS IMPOSED BY CONSTRUCTION VEHICLES.
3. DRAIN BASIN SHALL BE CONSTRUCTED OF HIGH DENSITY POLYETHYLENE.
4. PROVIDE HOODED OUTLET ON ALL DRAIN BASINS
5. FRAME AND GRATE SHALL BE CONSTRUCTED OF DUCTILE IRON AND CONFORM TO ASTM A536 GRADE 70-50-05. PROVIDE NYLOPLAST S499CGS OR APPROVED EQUIVALENT.
6. PROVIDE DOME GRATE FOR ALL AREA DRAINS AS NOTED ON PLANS. PROVIDE NYLOPLAST 2499CGD OR APPROVED EQUIVALENT. SET TOP FRAME AT RIM ELEVATION

AREA DRAIN DETAIL
NOT TO SCALE

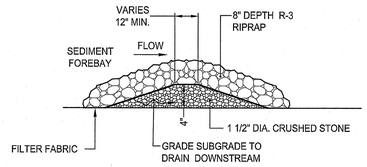


TEMPORARY SEDIMENT TRAP SEDIMENT MARKER

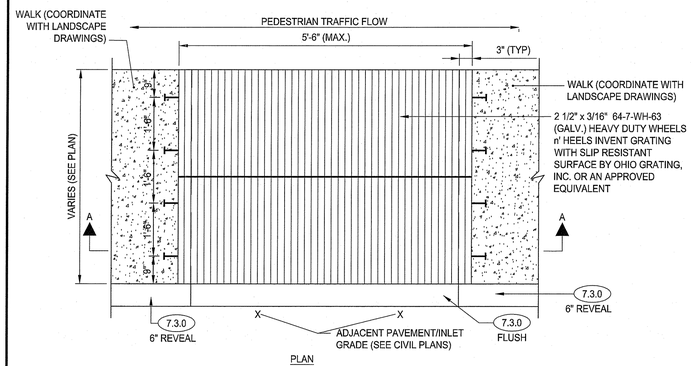


TREE BOX FILTER SEDIMENT MARKER

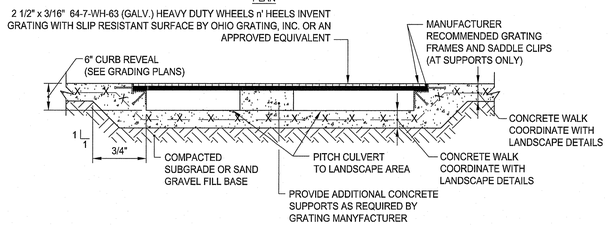
SEDIMENT MARKER DETAIL
NOT TO SCALE



SEDIMENT FOREBAY CHECK DAM
NOT TO SCALE



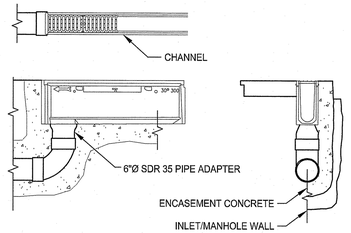
PLAN



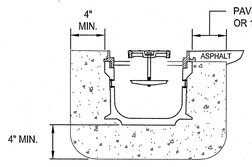
SECTION A-A

NOTE:
PROVIDE SUBMITTAL DEPICTING GRATE, CONCRETE WALK, SUPPORTS, AND OTHER INFORMATION FOR REVIEW BY OWNER'S REPRESENTATIVE

SIDEWALK GRATE
NOT TO SCALE



STANDARD INSTALLATION DETAIL
6" WIDE CHANNEL



PRE-SLOPED TRENCH DRAIN TYPICAL INSTALLATION

TRENCH DRAIN	DESIGN FLOW CAPACITY
TRENCH DRAIN 1	1.28 CFS DOCK

NOTES:
1. REFER TO TABLE FOR HYDRAULIC FLOW RATES REQUIRED FOR EACH TRENCH DRAIN. CONTRACTOR SHALL PROVIDE DOCUMENTATION SHOWING THAT THE TRENCH DRAIN GRATE, CHANNEL, AND OUTLET(S) ARE CAPABLE OF CONVEYING THE DESIGN FLOW RATE.
2. CONTRACTOR SHALL PROVIDE SHOP DRAWING OF PROPOSED TRENCH DRAIN LAYOUT.
3. TRENCH DRAIN SHALL HAVE MINIMUM SLOPE OF 0.6%.
4. ACCEPTABLE PRODUCTS FOR TRENCH DRAIN 1 INCLUDE FLOWDRAIN BY ACO OR APPROVED EQUIVALENT.
5. TRENCH DRAIN AND GRATE SHALL BE RATED TO WITHSTAND H-20 LOADING.
6. TRENCH DRAIN GRATES FOR TRENCH DRAIN 1 SHALL BE BOLTED.
7. CONCRETE EMBEDMENT SHALL BE THE EXTENTS RECOMMENDED BY THE MANUFACTURER. CONTRACTOR SHALL SUBMIT THE INSTALLATION DETAIL FOR REVIEW.

TRENCH DRAIN DETAILS
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: JAN 02 2025 FILE #: 23-0151
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PARE

EDWARD R. MARTIN MIDDLE SCHOOL EAST PROVIDENCE, RHODE ISLAND

AI3 ARCHITECTS

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 3307 & 3315

SEP 12 2024

DAVID L. POTTER
No. 8665
09.12.24
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:

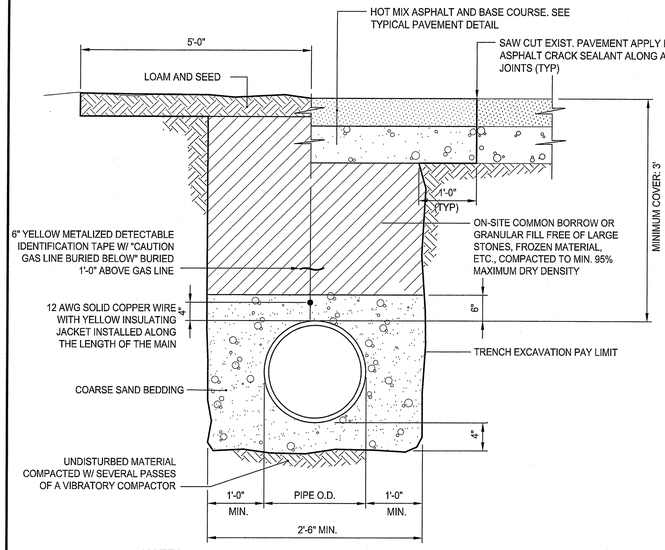
PROJECT NO.:	22037.05
DATE:	SEPTEMBER 12, 2024
SCALE:	NTS
DESIGNED BY:	
CHECKED BY:	
DRAWN BY:	
APPROVED BY:	

DRAWING TITLE:
Details - 7

DRAWING NO.:
C6.7

SHEET NO. 20 OF 47

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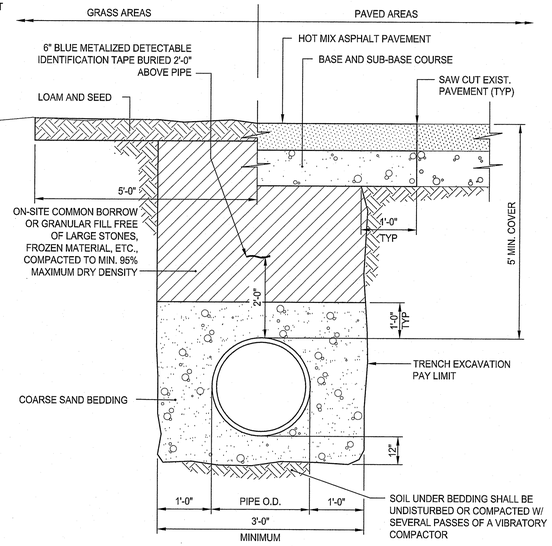


NOTES:

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. WHERE A SLEEVE IS INSTALLED, A TRACING WIRE SHALL BE INSTALLED OUTSIDE OF SLEEVE.
3. GAS TRENCH SHALL BE COORDINATED WITH REQUIREMENTS OF THE GAS COMPANY PRIOR TO COMMENCING WORK.

GAS TRENCH DETAIL

NOT TO SCALE

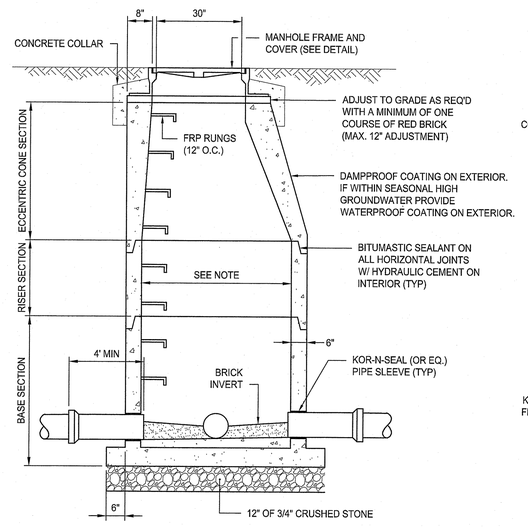


NOTES:

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

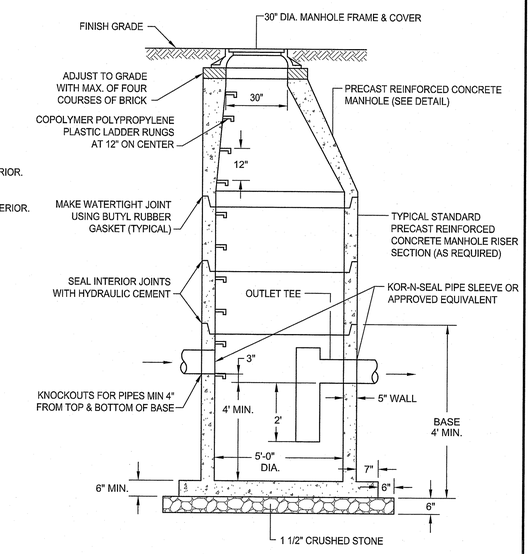


NOTE:

SEWER MANHOLES SHALL HAVE 4' MINIMUM INSIDE DIAMETER AND BE H-20 RATED. REFER TO PLANS FOR DIAMETER.

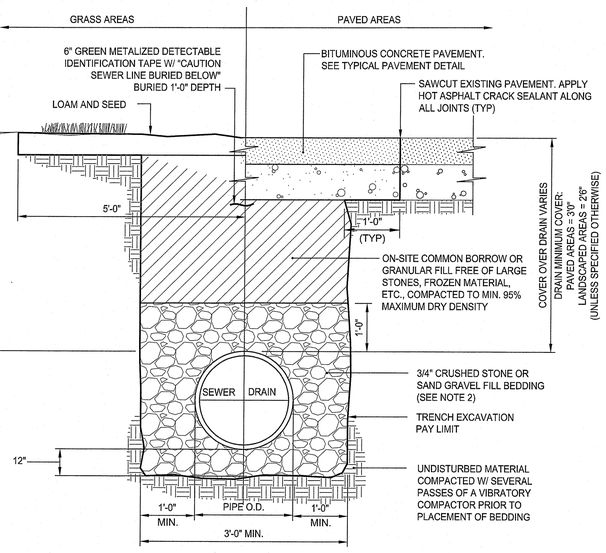
GRAVITY SEWER MANHOLE

NOT TO SCALE



PRECAST CONCRETE OIL WATER SEPARATOR (OWS)

NOT TO SCALE

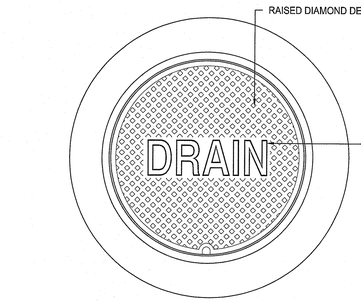


NOTES:

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. 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

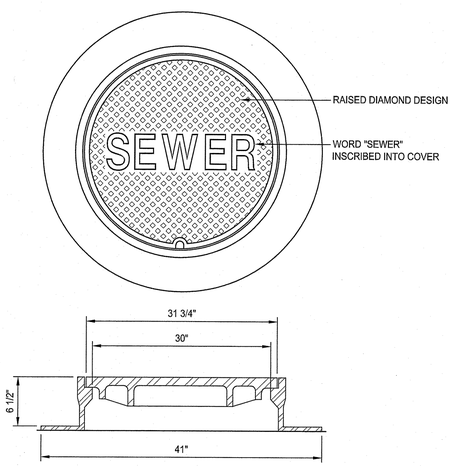


NOTES:

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



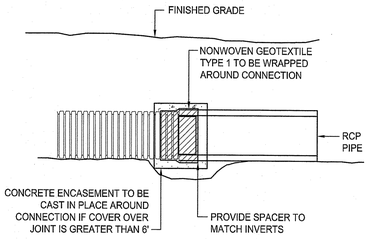
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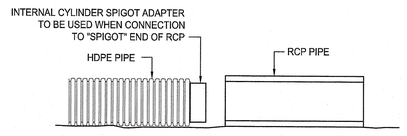
1. NEENAH FOUNDRY, INC. MODEL #R-1557 OR APPROVED EQUIVALENT.
2. COVER SHALL MEET H-20 LOADING CRITERIA.

SANITARY MANHOLE FRAME & COVER

NOT TO SCALE

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: JAN 02 2025 FILE #: 23-015
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
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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

PARE

EDWARD R. MARTIN MIDDLE SCHOOL EAST PROVIDENCE, RHODE ISLAND

Ai3 ARCHITECTS

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 3307 & 3315

SEP 12 2024

DAVID L. POTTER
No. 8665
09.12.24
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:

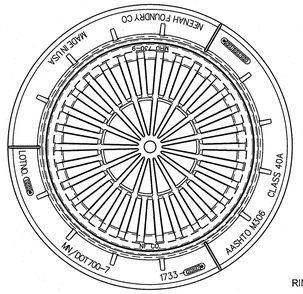
PROJECT NO.:	22037.05
DATE:	SEPTEMBER 12, 2024
SCALE:	NTS
DESIGNED BY:	
CHECKED BY:	
DRAWN BY:	
APPROVED BY:	

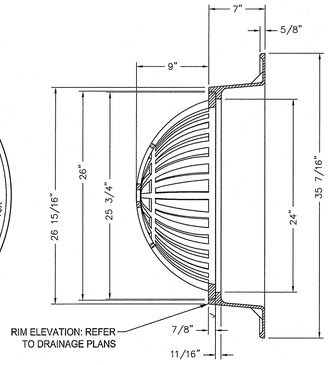
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DRAWING NO.: C6.8

SHEET NO. 21 OF 47

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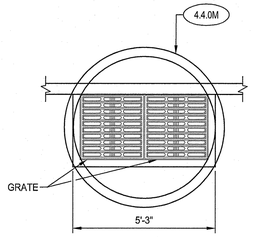


NOTES:

1. NEENA FOUNDRY R2561 OR APPROVED EQUIVALENT.
2. FRAME AND GRATE SHALL MEET H-20 LOADING CRITERIA.
3. ALL LIFTING HOLES TO BE PLUGGED IN AND OUT WITH HYDRAULIC CEMENT.
4. MANHOLES SHALL HAVE 6" THICK WALLS.
5. PROVIDE DOME GRATE AT CB-03, CB-10, CB-11, CB-12, CB-16, CB-17, CB-18, CB-19, CB-20, CB-28, CB-29, CB-37, AND CB-38.

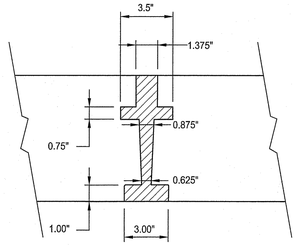
DOME GRATE DETAIL

NOT TO SCALE

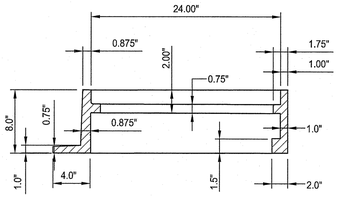


NOTE:
PROVIDE TYPE "F" CATCH BASIN ALONG ENTIRE LENGTH OF GRATE FOR CATCH BASINS PROPOSED ALONG CURB.

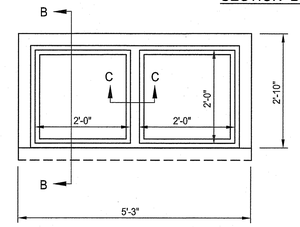
PLAN



SECTION C - C



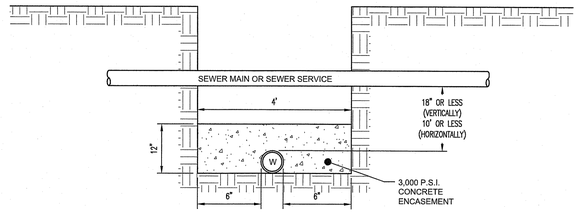
SECTION B - B



FRAME FOR DOUBLE GRATE CATCH BASIN

DOUBLE GRATE CATCH BASIN

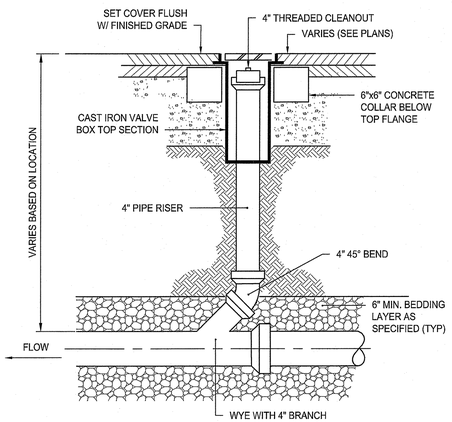
NOT TO SCALE



NOTES:
1. SEWER LINES CROSSING OVER WATER LINES SHALL BE CONCRETE ENCASED FOR 10 FEET ON EITHER SIDE OF CROSSING REGARDLESS OF VERTICAL SEPARATION DISTANCE.
2. SEWER LINES CROSSING UNDER WATER LINES SHALL BE CONSTRUCTED WITH A MINIMUM VERTICAL SEPARATION OF 18 INCHES. WHEN THIS CANNOT BE ACHIEVED, THE SEWER SHALL BE ENCASED IN CONCRETE FOR 10 FEET ON EITHER SIDE OF CROSSING.
3. ENCASEMENT SHALL BE A MINIMUM OF 6 INCHES AROUND THE SEWER LINES.

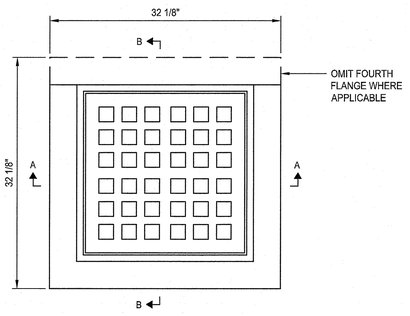
MINIMUM DISTANCES FOR SEWER AND WATER LINE CROSSINGS

NOT TO SCALE



CLEANOUT DETAIL

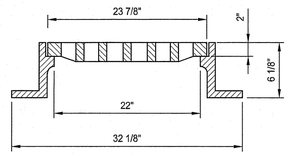
NOT TO SCALE



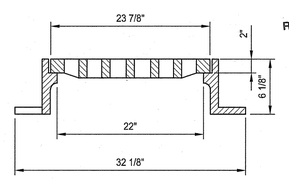
PLAN

NOTES:

1. NEENAH FOUNDRY R-3405-A OR APPROVED EQUIVALENT.
2. FRAME AND GRATE SHALL MEET H-20 LOADING CRITERIA.
3. PROVIDE U.S. FOUNDRY USD 4132 RING & 6001 GRATE ADA CATCH BASIN GRATE FOR CB-15 AND CB-26 OR APPROVED EQUIVALENT.
4. PROVIDE U.S. FOUNDRY USD 4132 RING & 6001 GRATE PEDESTRIAN CATCH BASIN GRATE FOR CB-11, CB-12, AND CB-13.



SECTION A-A



SECTION B-B

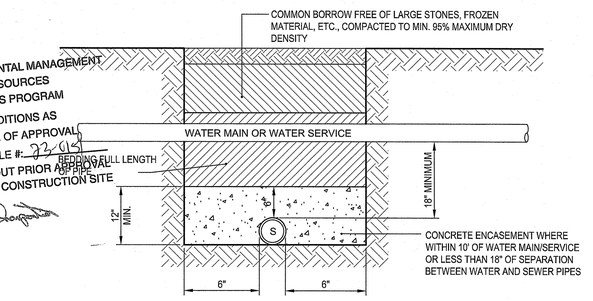
GENERAL NOTES:

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

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: JAN 02 2025 FILE #: 22-0151
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



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

PARE

EDWARD R. MARTIN MIDDLE SCHOOL EAST PROVIDENCE, RHODE ISLAND

AI3 ARCHITECTS

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 3307 & 3315

SEP 12 2024

DAVID L. POTTER
No. 8665
REGISTERED PROFESSIONAL ENGINEER
09.12.24

REVISIONS:

PROJECT NO.:	22037.05
DATE:	SEPTEMBER 12, 2024
SCALE:	NTS
DESIGNED BY:	
CHECKED BY:	
DRAWN BY:	
APPROVED BY:	

DRAWING TITLE:

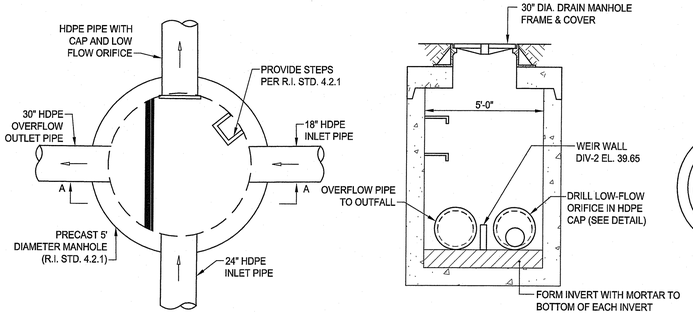
Details - 9

DRAWING NO.:

C6.9

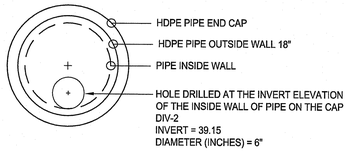
SHEET NO. 22 OF 47

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DIV 2

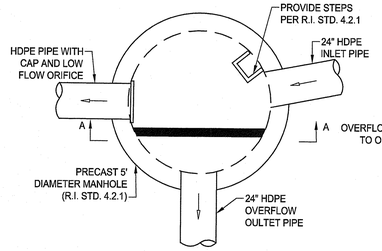
SECTION A-A DIVERSION WEIR WALL ELEVATION



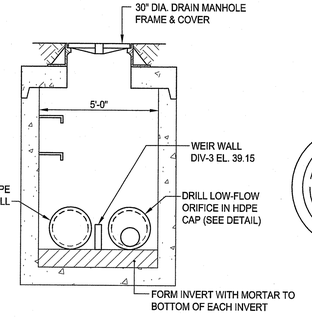
CAP ELEVATION

TYPICAL DIVERSION MANHOLE DETAIL

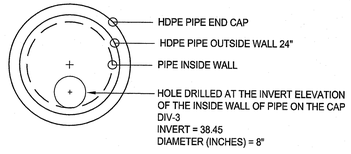
NOT TO SCALE



DIV 3



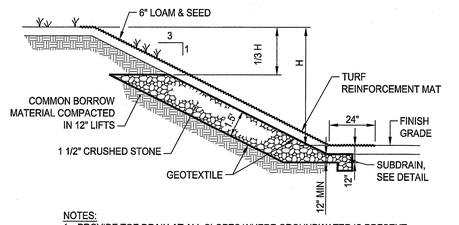
SECTION A-A DIVERSION WEIR WALL ELEVATION



CAP ELEVATION

TYPICAL DIVERSION MANHOLE DETAIL

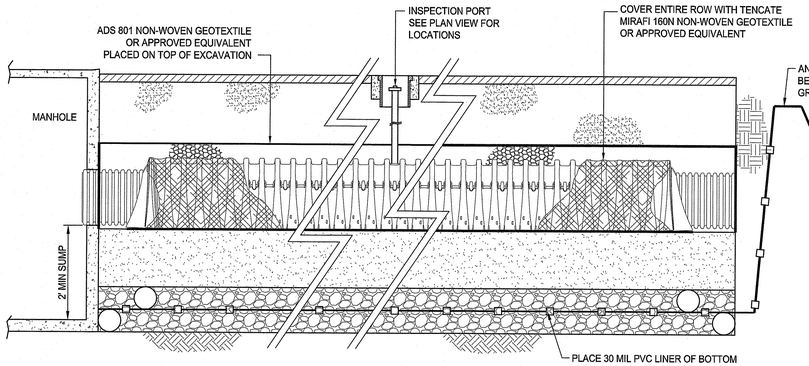
NOT TO SCALE



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

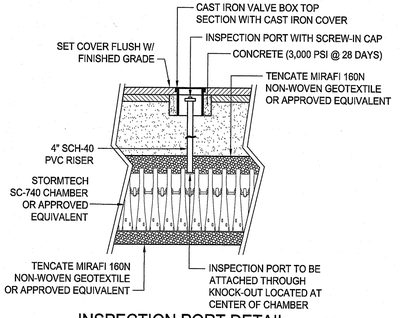


NOTES:

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.

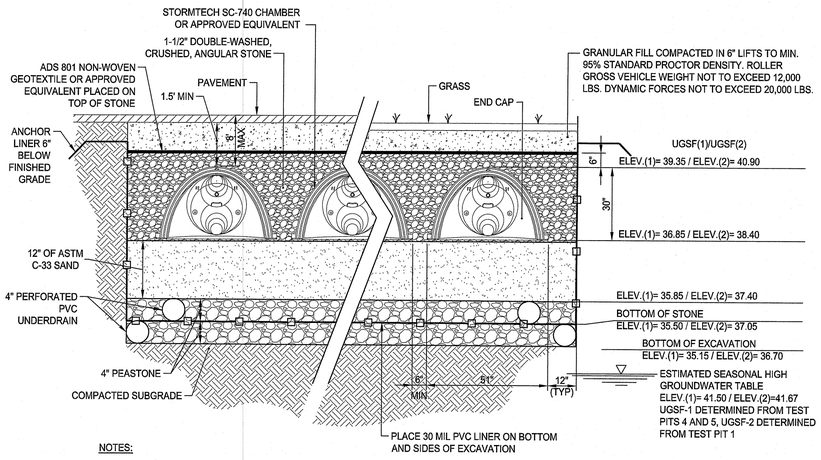
PRETREATMENT ROW DETAIL

NOT TO SCALE



INSPECTION PORT DETAIL

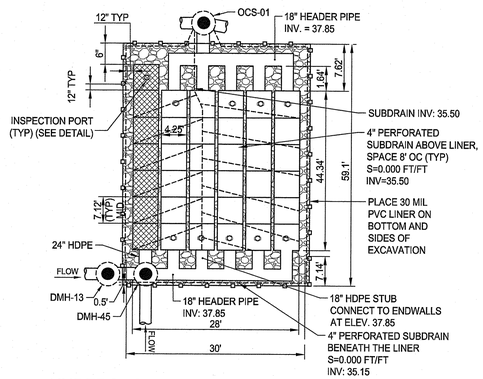
NOT TO SCALE



NOTES:
1. CONTRACTOR SHALL INSTALL UNDERGROUND SAND FILTER SYSTEM PER MANUFACTURERS RECOMMENDATIONS.

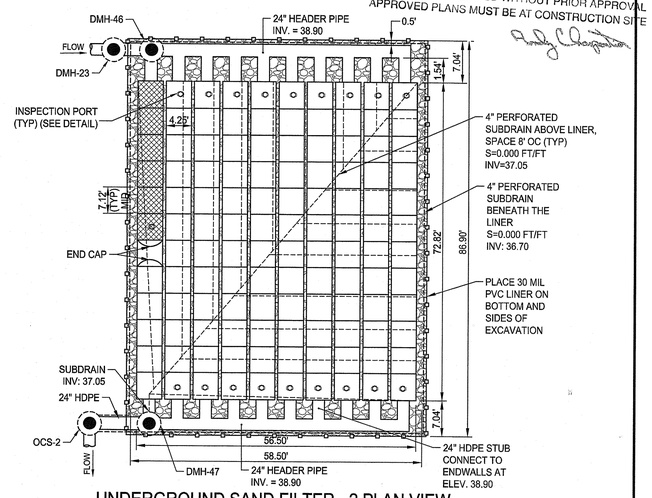
UNDERGROUND SAND FILTER SYSTEM DETAIL

NOT TO SCALE



UNDERGROUND SAND FILTER - 1 PLAN VIEW

NOT TO SCALE



UNDERGROUND SAND FILTER - 2 PLAN VIEW

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: JAN. 02 2025 FILE #: 23-0151
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RI Environmental Management
NOV 25 2024
Office of Water Resources

DAVID L. POTTER
No. 8665
REGISTERED PROFESSIONAL ENGINEER
11.22.24

PARE

EDWARD R. MARTIN MIDDLE SCHOOL EAST PROVIDENCE, RHODE ISLAND

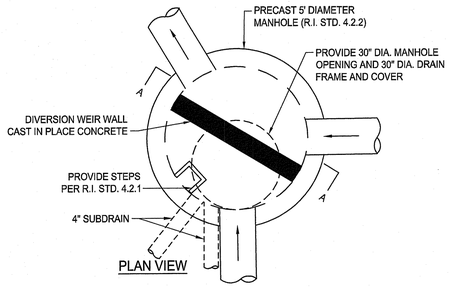
AI3 ARCHITECTS

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 33-07 & 33-15

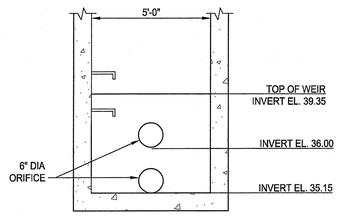
REVISIONS:		
1	11/22/2024	RIDEM PERMIT MOD RTC

PROJECT NO.:	22037.05
DATE:	SEPTEMBER 12, 2024
SCALE:	NTS
DESIGNED BY:	
CHECKED BY:	
DRAWN BY:	
APPROVED BY:	
DRAWING TITLE:	Details - 10
DRAWING NO.:	C6.10
SHEET NO.	23 OF 47

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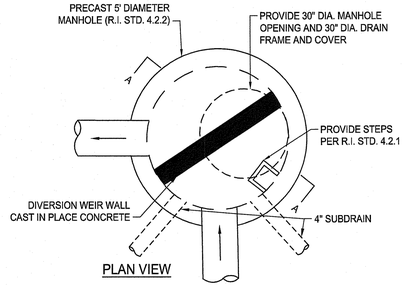
PLAN VIEW



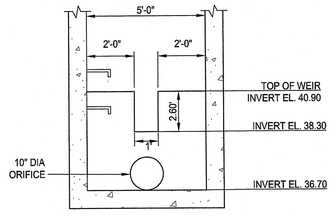
SECTION A-A WEIR WALL ELEVATION

OUTLET CONTROL STRUCTURE 1 (OCS-1)

NOT TO SCALE



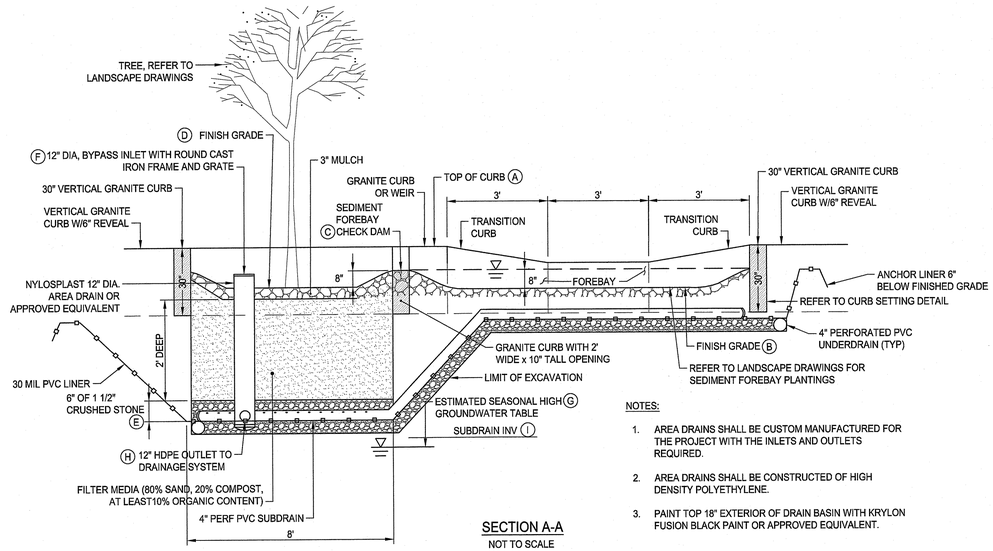
PLAN VIEW



SECTION A-A WEIR WALL ELEVATION

OUTLET CONTROL STRUCTURE 2 (OCS-2)

NOT TO SCALE



SECTION A-A

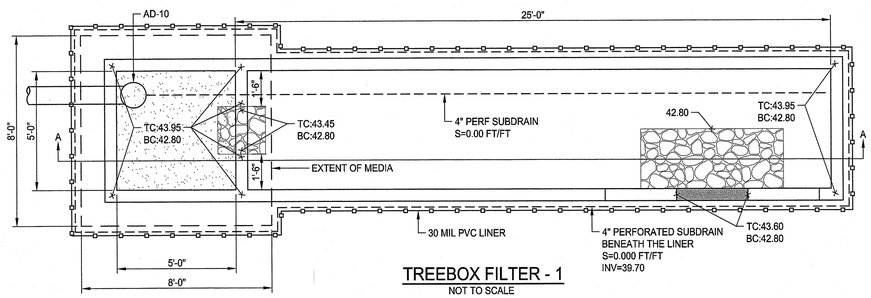
NOT TO SCALE

NOTES:

1. AREA DRAINS SHALL BE CUSTOM MANUFACTURED FOR THE PROJECT WITH THE INLETS AND OUTLETS REQUIRED.
2. AREA DRAINS SHALL BE CONSTRUCTED OF HIGH DENSITY POLYETHYLENE.
3. PAINT TOP 18" EXTERIOR OF DRAIN BASIN WITH KRYLON FUSION BLACK PAINT OR APPROVED EQUIVALENT.

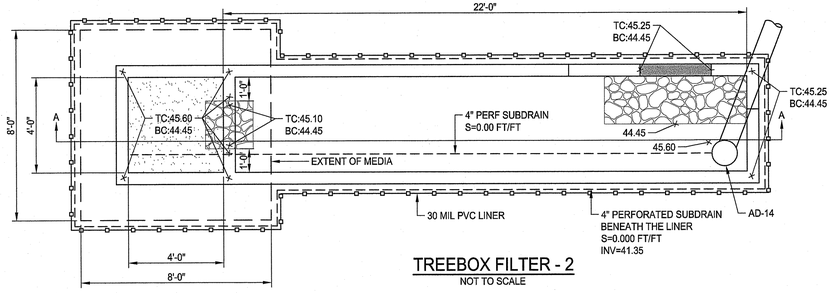
	A	B	C	D	E	F	G	H	I	SUB*
TBF-1	43.95	42.80	43.45	42.80	40.05	43.45	43.66	40.05	39.70	Y
TBF-2	45.60	44.45	45.10	44.45	41.70	45.10	43.66	41.70	41.35	Y
TBF-3	42.85	41.70	42.35	41.70	38.95	42.35	43.66	38.95	38.60	Y

*SUB = SUBDRAIN. ALL TREE BOX FILTERS WITH A SUBDRAIN SHALL ALSO BE LINED WITH 30 MIL PVC BARRIER



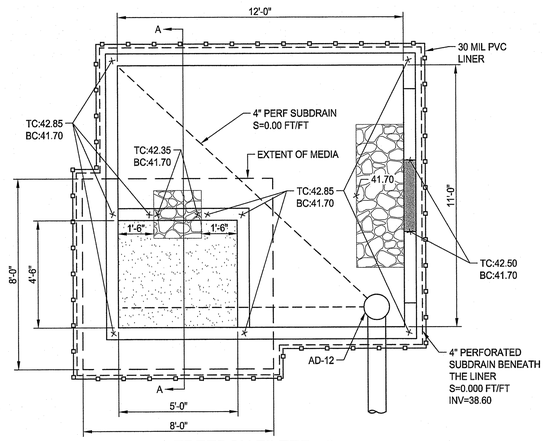
TREEBOX FILTER - 1

NOT TO SCALE



TREEBOX FILTER - 2

NOT TO SCALE



TREEBOX FILTER - 3

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: JAN 02 2025 FILE #: 23-0153

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

PARE

EDWARD R. MARTIN MIDDLE SCHOOL EAST PROVIDENCE, RHODE ISLAND

AI3 ARCHITECTS

RI Environmental Management
NOV 25 2024
Office of Water Resources

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 3307 & 3315

DAVID L. POTTER
No. 8665
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
11.22.24

REVISIONS:

1	11/22/2024	RIDEM PERMIT MOD RTC

PROJECT NO.:	22037.05
DATE:	SEPTEMBER 12, 2024
SCALE:	NTS
DESIGNED BY:	
CHECKED BY:	
DRAWN BY:	
APPROVED BY:	

DRAWING TITLE:

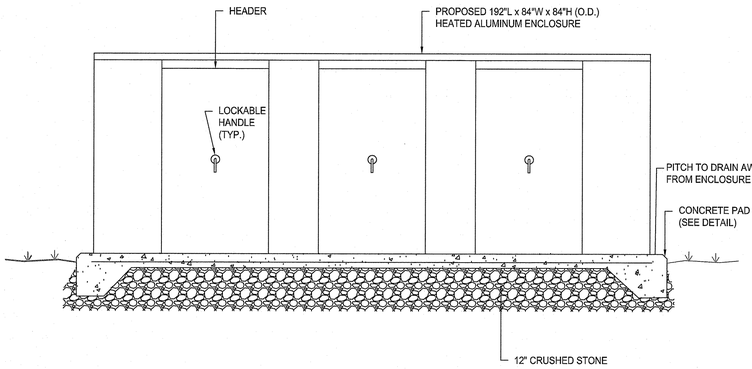
Details - 11

DRAWING NO.:

C6.11

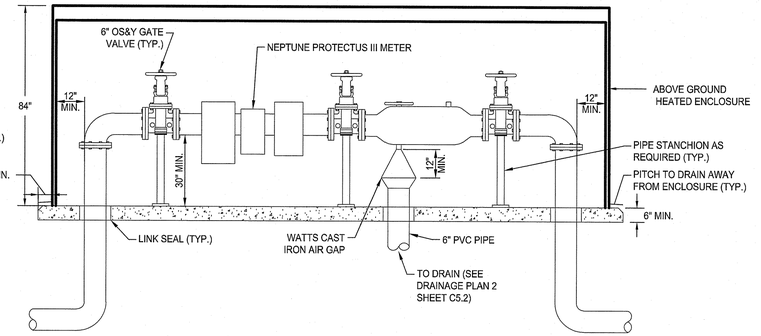
SHEET NO. 24 OF 47

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HOTBOX ELEVATION VIEW

NOT TO SCALE

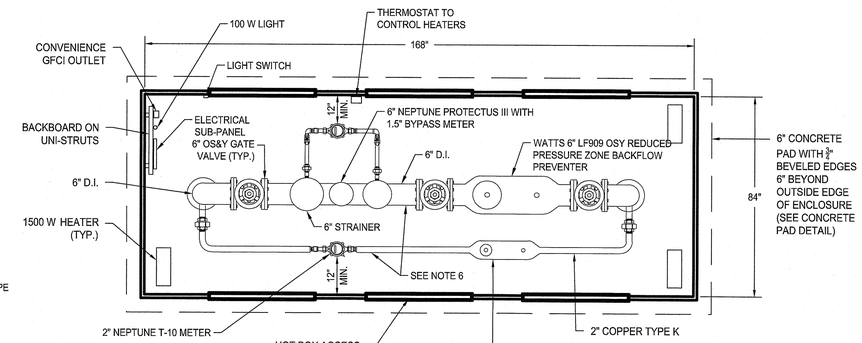


ABOVE GROUND HEATED ENCLOSURE SECTION A-A

NOT TO SCALE

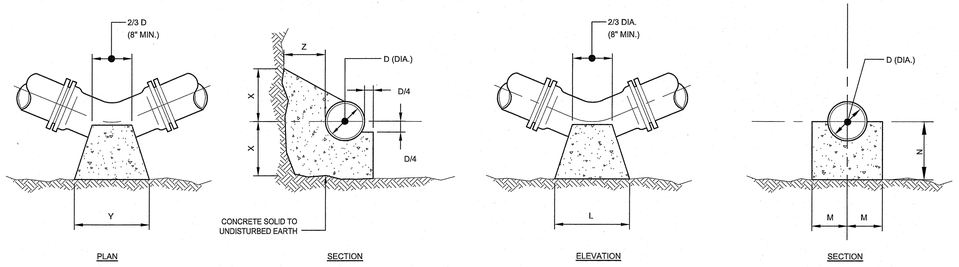
NOTES:

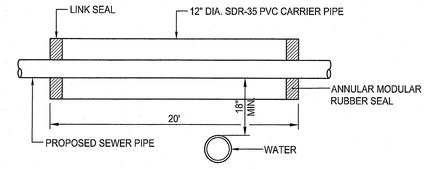
1. ALL INTERIOR PIPING SHALL BE CLASS 53 DUCTILE IRON WITH FLANGED JOINTS.
2. ALL BURIED PIPING SHALL BE CLASS 52 CEMENT-LINED DUCTILE IRON WITH MECHANICAL JOINTS.
3. ALL EXPOSED METAL SURFACES TO BE BONDED BY ELECTRICIAN PER NATIONAL ELECTRIC CODE.
4. CONTRACTOR SHALL SUPPORT ALL INTERIOR PIPING WITH 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.



ABOVE GROUND HEATED ENCLOSURE PLAN AND PROFILE

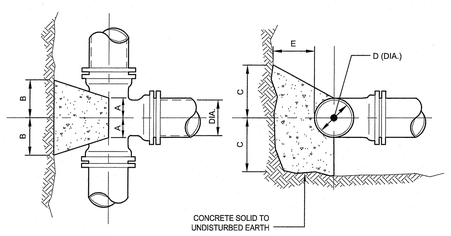
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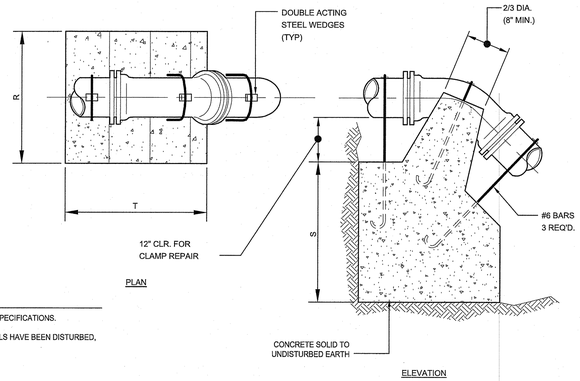




CARRIER PIPE DETAIL

NOT TO SCALE





NOTES:

1. ALL CONCRETE SHALL BE CL. B (AE) CONCRETE AND COMPLY WITH SECTION M4.12.00 OF THE STANDARD SPECIFICATIONS.
2. CONCRETE THRUST BLOCKS SHALL BEAR AGAINST UNDISTURBED EARTH. IN AREAS WHERE BEARINGS SOILS HAVE BEEN DISTURBED, RESTRAINED JOINTS SHALL BE USED.

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"

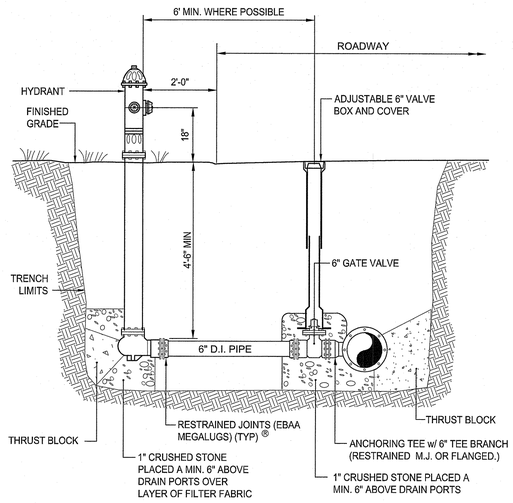
HORIZONTAL BENDS						
BEND		PIPE SIZE-D (DIA.)				
		6"	8"	12"	16"	20"
1/8	X	1'-0"	1'-0"	1'-0"	1'-3"	1'-6"
	Y	1'-0"	1'-6"	2'-0"	2'-6"	3'-0"
	Z	8"	10"	1'-2"	1'-4"	1'-6"
1/16	X	1'-0"	1'-0"	1'-0"	1'-3"	1'-6"
	Y	1'-0"	1'-4"	1'-6"	1'-9"	2'-6"
	Z	8"	10"	1'-2"	1'-4"	1'-6"
1/32	X	1'-0"	1'-0"	1'-0"	1'-2"	1'-4"
	Y	1'-0"	1'-0"	1'-2"	1'-4"	1'-5"
	Z	8"	10"	1'-2"	1'-4"	1'-5"

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'-6"	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'-6"
	T	2'-0"	2'-6"	3'-0"	4'-6"	5'-9"

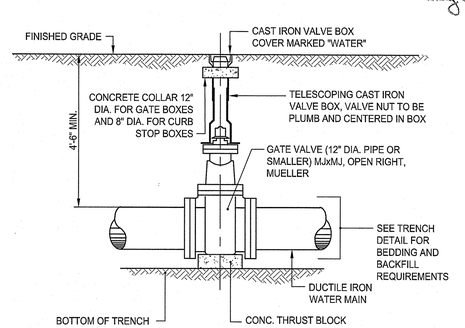
CONCRETE THRUST BLOCKS

NOT TO SCALE



HYDRANT DETAIL

NOT TO SCALE



VALVE BOX DETAIL

NOT TO SCALE

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
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DATED: JAN 07 2025 FILE #: 23-0151
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PARE

EDWARD R. MARTIN MIDDLE SCHOOL
EAST PROVIDENCE, RHODE ISLAND

AI3 ARCHITECTS

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 3307 & 3315

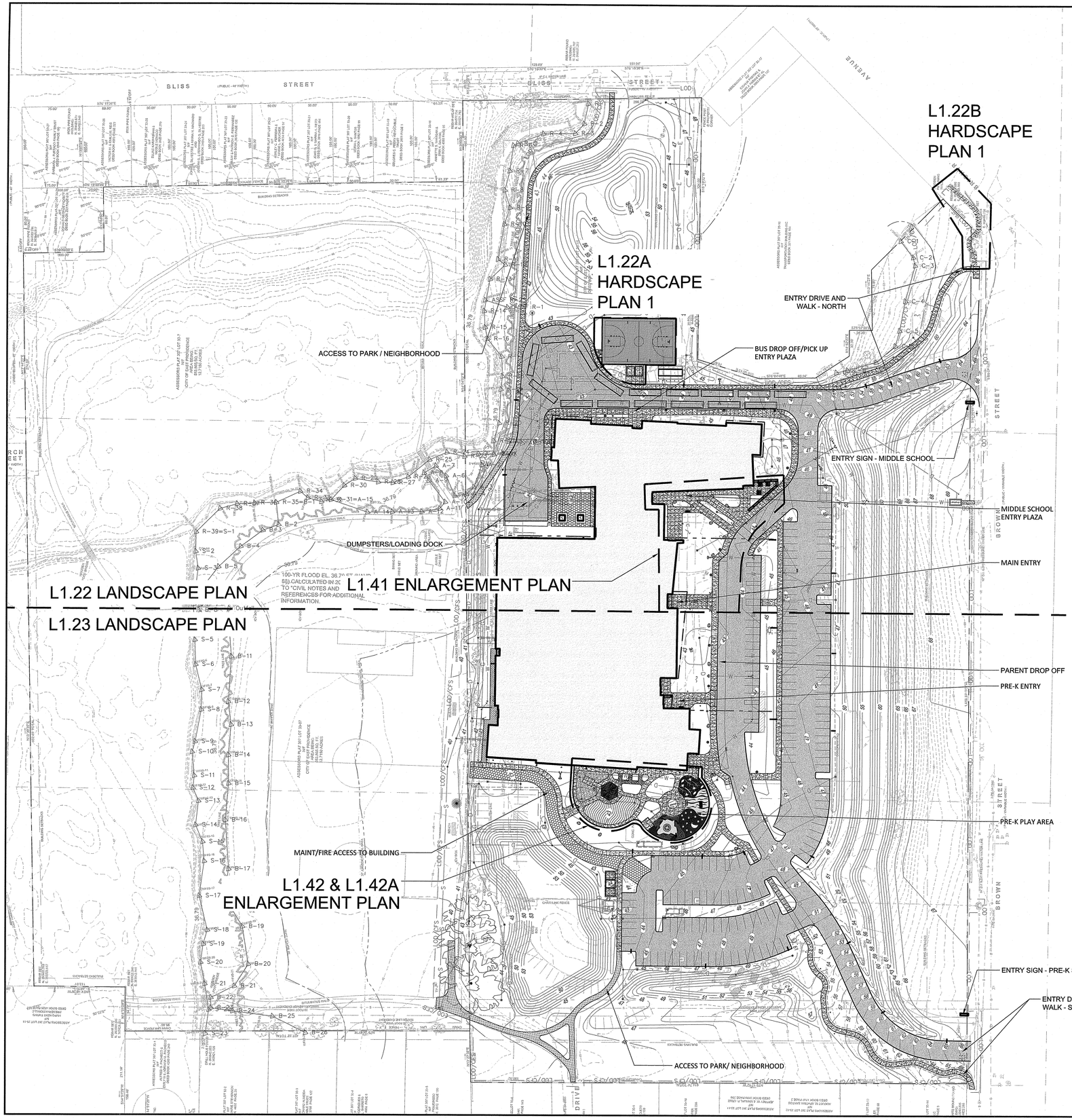
SEP 12 2024

DAVID L. POTTER
No. 8665
09.12.24
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS:

PROJECT NO.:	22037.05
DATE:	SEPTEMBER 12, 2024
SCALE:	NTS
DESIGNED BY:	
CHECKED BY:	
DRAWN BY:	
APPROVED BY:	
DRAWING TITLE:	Details - 12
DRAWING NO.:	C6.12
SHEET NO.	25 OF 47

Y:\JOBS\22037.05 Edward R. Martin Middle School\Design\DWGS\Details.dwg



REFERENCE NOTES SCHEDULE

05 METALS

SYMBOL	CODE	DESCRIPTION	QTY	DETAIL
	05-01-00	LOUVERED FENCE	47 lf	5/L3.02

32 EXTERIOR IMPROVEMENTS

	32-12-17	ASPHALT PATHWAYS	5,540 sf	SEE CIVIL
	32-12-18	ASPHALT PAVING FOR COURTS	5,040 sf	3/L3.05
	32-13-13A	CONCRETE PAVING	36,953 sf	1/L3.01
	32-13-13B	REINFORCED CEMENT CONCRETE PAVING	1,723 sf	2/L3.01
	32-15-50	STABILIZED LAWN FOR EMERGENCY DRIVE	5,810 sf	5/L3.01
	32-18-13	PLAYGROUND TURF	1,637 sf	4/L3.04
	32-18-17	PLAYGROUND PROTECTIVE SURFACING	3,011 sf	1/L3.04
	32-18-17B	PLAYGROUND FIBAR MULCH	881 sf	3/L3.04
	32-31-19A	ORNAMENTAL FENCE	294 lf	3/L3.02
	32-31-19B	ORNAMENTAL GATE	2	4/L3.02
	32-33-00A	BIKE RACK	5	5/L3.03
	32-33-00B	FLAG POLE	1	6/L3.03
	32-33-00C	ORNAMENTAL BOLLARD	10	4/L3.03
	32-33-00D	LITTER AND RECYCLE RECEPTACLE	3	3/L3.03
	32-33-00E	ORNAMENTAL BENCH	2	2/L3.03
	32-33-00F	PICNIC TABLE	3	1/L3.03
	32-33-00H	SHADE STRUCTURE	1	5/L3.04
	32-33-00I	BIRD HOUSE	2	
	32-94-50	LANDSCAPE BOULDER	18	7/L3.03

WALL

	W-101	±24-30" REUSED GRANITE BLOCK RETAINING/SEAT WALL	83 lf	6/L3.01

NOTES:

1. REFER TO CIVIL PLANS FOR INFORMATION REGARDING ROADWAY, CURBS, PAVEMENT STRIPING, CROSSWALKS, UTILITIES, DRAINAGE, STORMWATER, GRADING, AND PHASING PLANS.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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0 60 120 180 240 feet
1" = 60'

N

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ARCHITECTS

Edward R. Martin Middle School
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Plat 307, Lots 3307 & 3315

SEP 13 2024

REGISTERED LANDSCAPE ARCHITECT
KIMBERLY BRUNER
No. 425

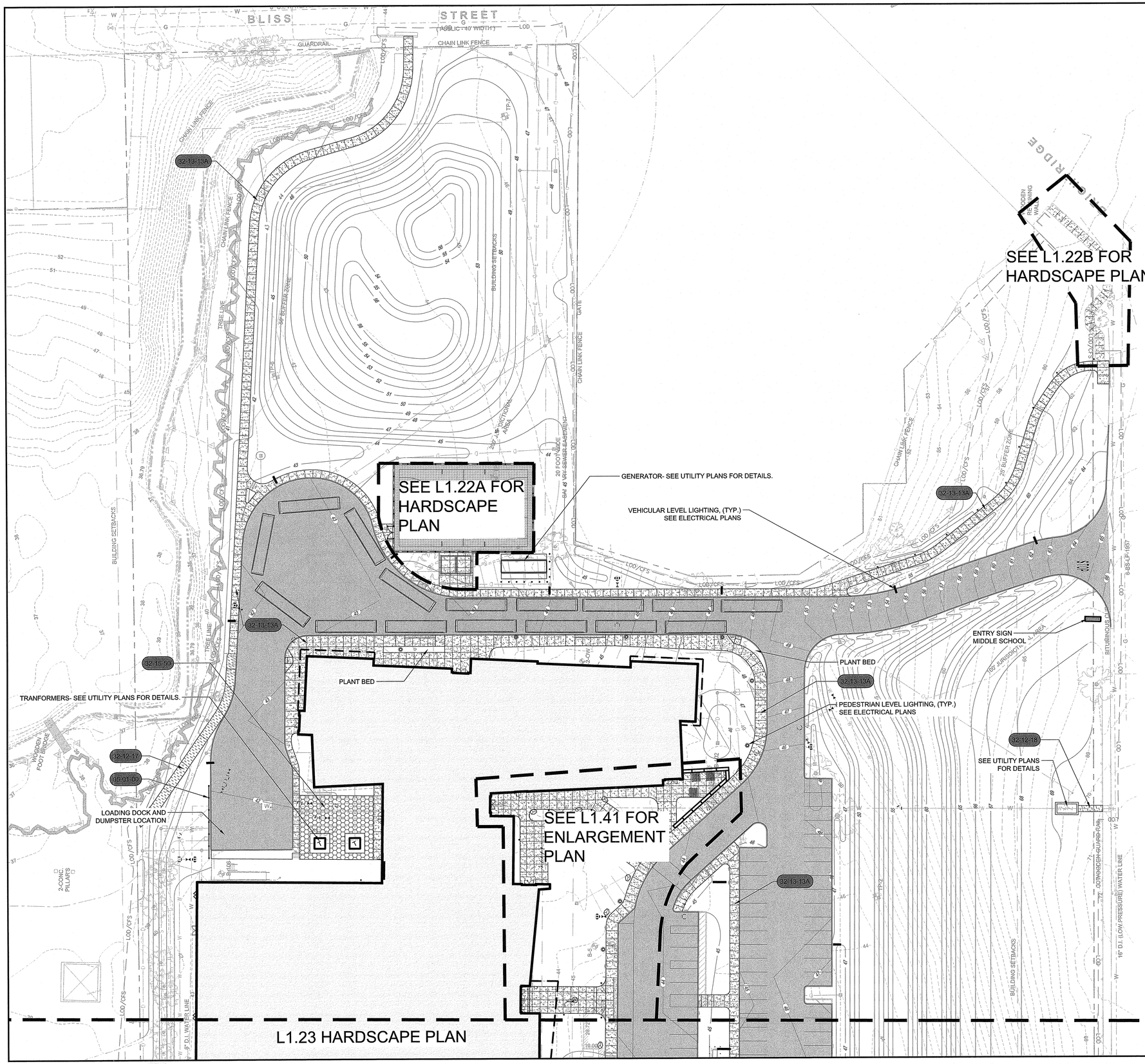
REVISIONS:

PROJECT NO.:	K1036
DATE:	SEPTEMBER 12, 2024
SCALE:	AS INDICATED
DESIGNED BY:	SD/YF/EL
CHECKED BY:	AE/SD/KB
DRAWN BY:	SD/YF/EL
APPROVED BY:	KB

DRAWING TITLE:
OVERALL HARDSCAPE PLAN

DRAWING NO.:
L1.21

SHEET NO. 26 OF 47



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REFERENCE NOTES SCHEDULE L1.22

05 METALS

SYMBOL	CODE	DESCRIPTION	DETAIL
	05-01-00	LOUVERED FENCE	5/L3.02

32 EXTERIOR IMPROVEMENTS

SYMBOL	CODE	DESCRIPTION	DETAIL
	32-12-17	ASPHALT PATHWAYS	SEE CIVIL
	32-12-18	ASPHALT PAVING FOR COURTS	3/L3.05
	32-13-13A	CONCRETE PAVING	1/L3.01
	32-15-50	STABILIZED LAWN FOR EMERGENCY DRIVE	5/L3.01

NOTES:

1. REFER TO CIVIL PLANS FOR INFORMATION REGARDING ROADWAY, CURBS, PAVEMENT STRIPING, CROSSWALKS, UTILITIES, DRAINAGE, STORMWATER, GRADING, AND PHASING PLANS.

0 30 60 90 120 feet
1" = 30'

N

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EAST PROVIDENCE, RHODE ISLAND

Ai3
ARCHITECTS

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111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 3307 & 3315

SEP 12 2024

REGISTERED LANDSCAPE ARCHITECT
KIMBERLY MITCHELL BRADNER
No. 426

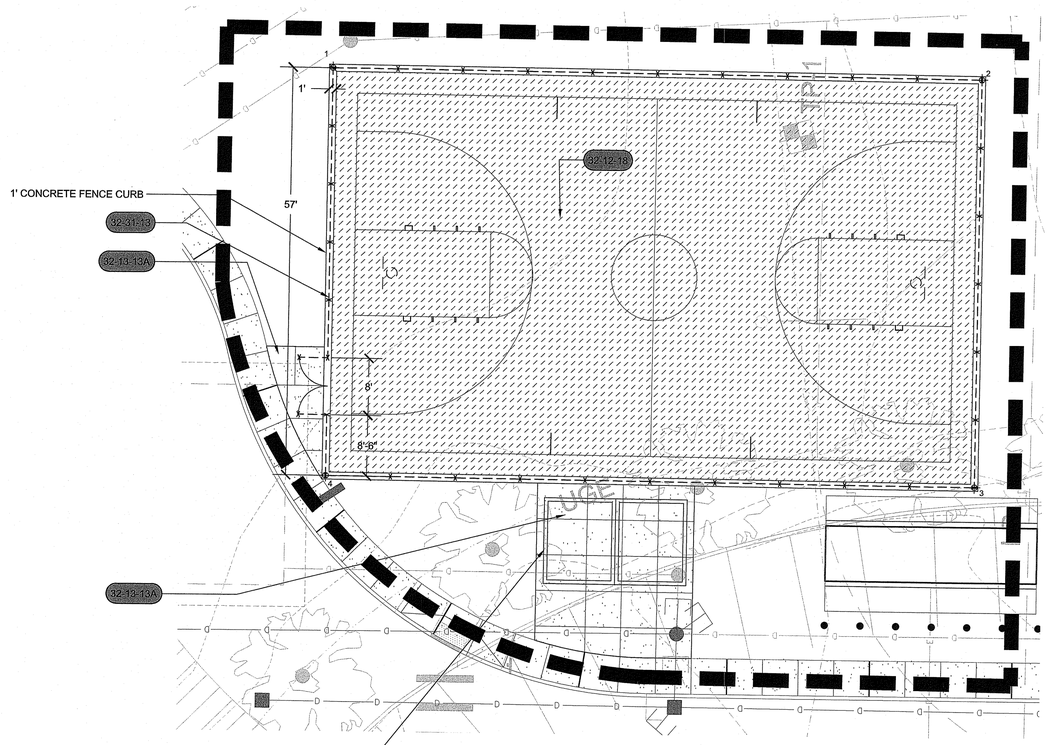
REVISIONS:

PROJECT NO.:	K1036
DATE:	SEPTEMBER 12, 2024
SCALE:	AS INDICATED
DESIGNED BY:	SD/YF/EL
CHECKED BY:	AE/SD/KB
DRAWN BY:	SD/YF/EL
APPROVED BY:	KB

DRAWING TITLE:
HARDSCAPE PLAN

DRAWING NO.:
L1.22

SHEET NO. 27 OF 47



STORAGE CONTAINERS AND CONCRETE BASES
PART OF ALTERNATE #17

REFER TO SHEET L1.23 FOR THREE ADDITIONAL STORAGE UNITS AS PART OF THIS ALTERNATE

REFERENCE NOTES SCHEDULE

32 EXTERIOR IMPROVEMENTS

SYMBOL	CODE	DESCRIPTION	QTY	DETAIL
	32.12.18	ASPHALT PAVING FOR COURTS	5,040 sf	3/L3.05
	32.13.13A	CONCRETE PAVING	608 sf	1/L3.01
x— —x	32.31.13	10' BLACK CHAIN LINK	296 lf	5/L3.05

NORTHING/EASTING POINT SCHEDULE

POINT	DESCRIPTION	NORTHING	EASTING
1		N 264273.16	E 364621.66
2		N 264249.71	E 364708.55
3		N 264195.65	E 364693.96
4		N 264219.09	E 364607.07

NOTES:

1. REFER TO CIVIL PLANS FOR INFORMATION REGARDING ROADWAY, CURBS, PAVEMENT STRIPING, CROSSWALKS, UTILITIES, DRAINAGE, STORMWATER, GRADING, AND PHASING PLANS.

0 10 20 30 40 feet

1" = 10'

N

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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AI3 ARCHITECTS

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Plat 307, Lots 33-07 & 33-15

SEP 12 2024

REGISTERED LANDSCAPE ARCHITECT
MICHAEL BRADNER
No. 428

REVISIONS:

PROJECT NO.:	K1036
DATE:	SEPTEMBER 12, 2024
SCALE:	AS INDICATED
DESIGNED BY:	SD/YF/EL
CHECKED BY:	AE/SD/KB
DRAWN BY:	SD/YF/EL
APPROVED BY:	KB

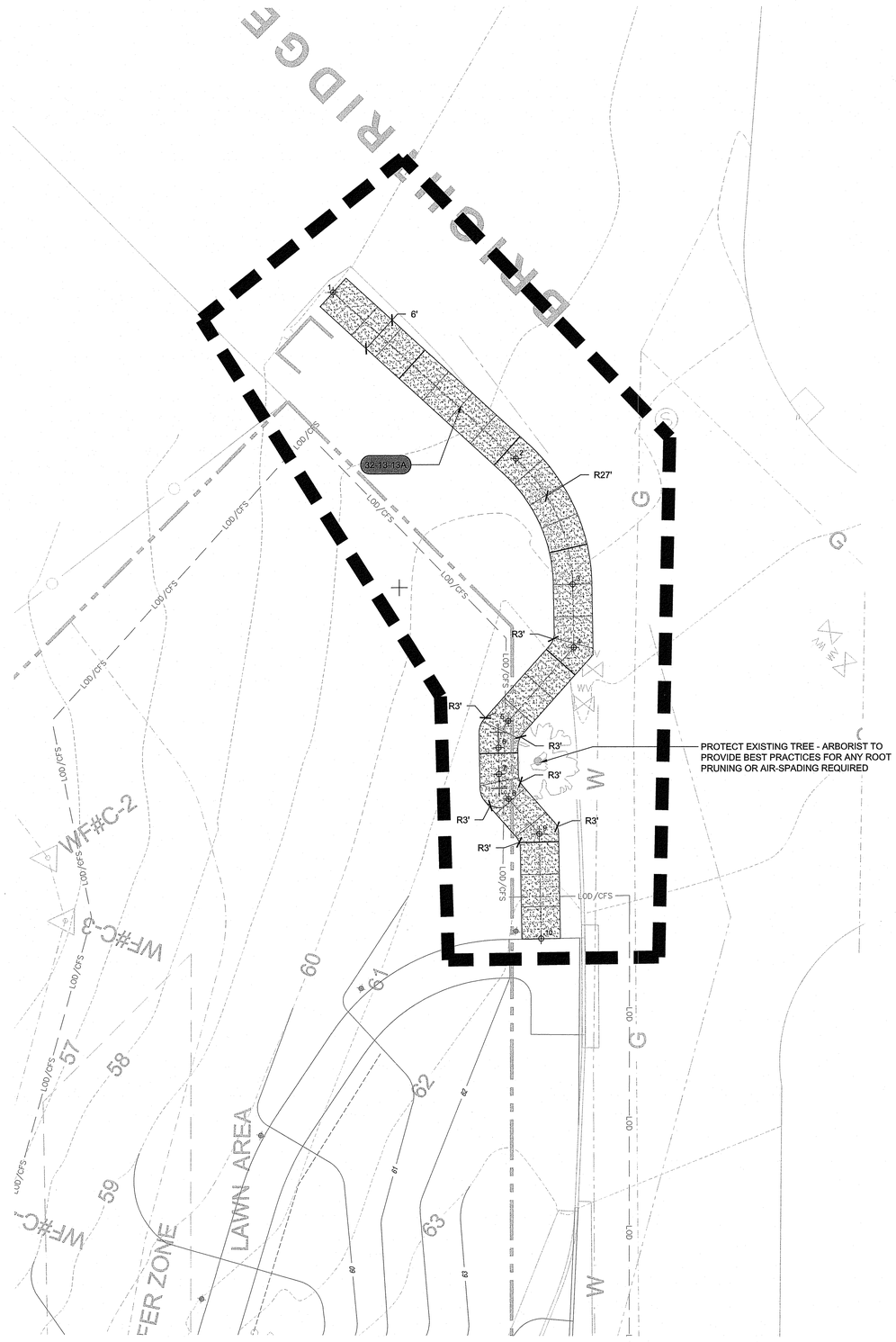
DRAWING TITLE:

HARDSCAPE PLAN
ALTERNATE 4

DRAWING NO.:

L1.22A

SHEET NO. 28 OF 47



REFERENCE NOTES SCHEDULE L1.22B

32 EXTERIOR IMPROVEMENTS

SYMBOL	CODE	DESCRIPTION	QTY	DETAIL
	32-13-13A	CONCRETE PAVING	734 sf	1/L3.01

NORTHING/EASTING POINT SCHEDULE

POINT	DESCRIPTION	NORTHING	EASTING
1		N 264325.25	E 365080.05
2		N 264292.98	E 365100.95
3		N 264271.88	E 365104.52
4		N 264262.36	E 365102.19
5		N 264253.90	E 365089.40
6		N 264250.32	E 365086.88
7		N 264246.30	E 365085.90
8		N 264242.20	E 365086.36
9		N 264235.71	E 365089.59
10		N 264219.92	E 365085.72

NOTES:

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0 10 20 30 40 feet

1" = 10'

N

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Ai3 ARCHITECTS

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SEP 12 2024

REGISTERED LANDSCAPE ARCHITECT
KEVIN BRADLEY BRADNER
No. 426

REVISIONS:

PROJECT NO.:	K1036
DATE:	SEPTEMBER 12, 2024
SCALE:	AS INDICATED
DESIGNED BY:	SD/YF/EL
CHECKED BY:	AE/SD/KB
DRAWN BY:	SD/YF/EL
APPROVED BY:	KB

DRAWING TITLE:

HARDSCAPE PLAN
ALTERNATE 16

DRAWING NO.:

L1.22B

SHEET NO. 29 OF 47

L1.22 HARDSCAPE PLAN

L1.41 ENLARGEMENT PLAN

L1.42 ENLARGEMENT PLAN

BOLLARD LIGHTS, (TYP.) SEE ELECTRICAL SITE PLAN

PEDESTRIAN LEVEL LIGHTING, (TYP.) SEE ELECTRICAL PLANS

STORAGE UNITS ON CONCRETE BASE

STORAGE CONTAINERS AND CONCRETE BASES PART OF ALTERNATE #17

REFER TO SHEET L1.22A FOR TWO ADDITIONAL STORAGE UNITS AS PART OF THIS ALTERNATE

TREE BOX FILTER, SEE CIVIL PLANS FOR MORE INFORMATION

TREE BOX FILTER, SEE CIVIL PLANS FOR MORE INFORMATION

BOLLARD LIGHTS, (TYP.) SEE ELECTRICAL SITE PLAN

VEHICULAR LEVEL LIGHTING, (TYP.) SEE ELECTRICAL SITE PLAN

MEET AND MATCH EXISTING WALKWAY.

ENTRY SIGN PRE-K SCHOOL

REFERENCE NOTES SCHEDULE L1.23

32 EXTERIOR IMPROVEMENTS

SYMBOL	CODE	DESCRIPTION	DETAIL
	32-12-17	ASPHALT PATHWAYS	SEE CIVIL
	32-13-13A	CONCRETE PAVING	1/L3.01
	32-13-13B	REINFORCED CEMENT CONCRETE PAVING	2/L3.01
	32-15-50	STABILIZED LAWN FOR EMERGENCY DRIVE	5/L3.01
	32-33-00C	ORNAMENTAL BOLLARD	4/L3.03
	32-33-00D	LITTER AND RECYCLE RECEPTACLE	3/L3.03
	32-33-00E	ORNAMENTAL BENCH	2/L3.03
	32-33-00L	BIRD HOUSE	
	32-94-50	LANDSCAPE BOULDER	7/L3.03

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OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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NOTES:

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0 30 60 90 120 feet

1" = 30'

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SEP 19 2024

REGISTERED ARCHITECT JOSEPH MITCHELL BRUNER No. 429

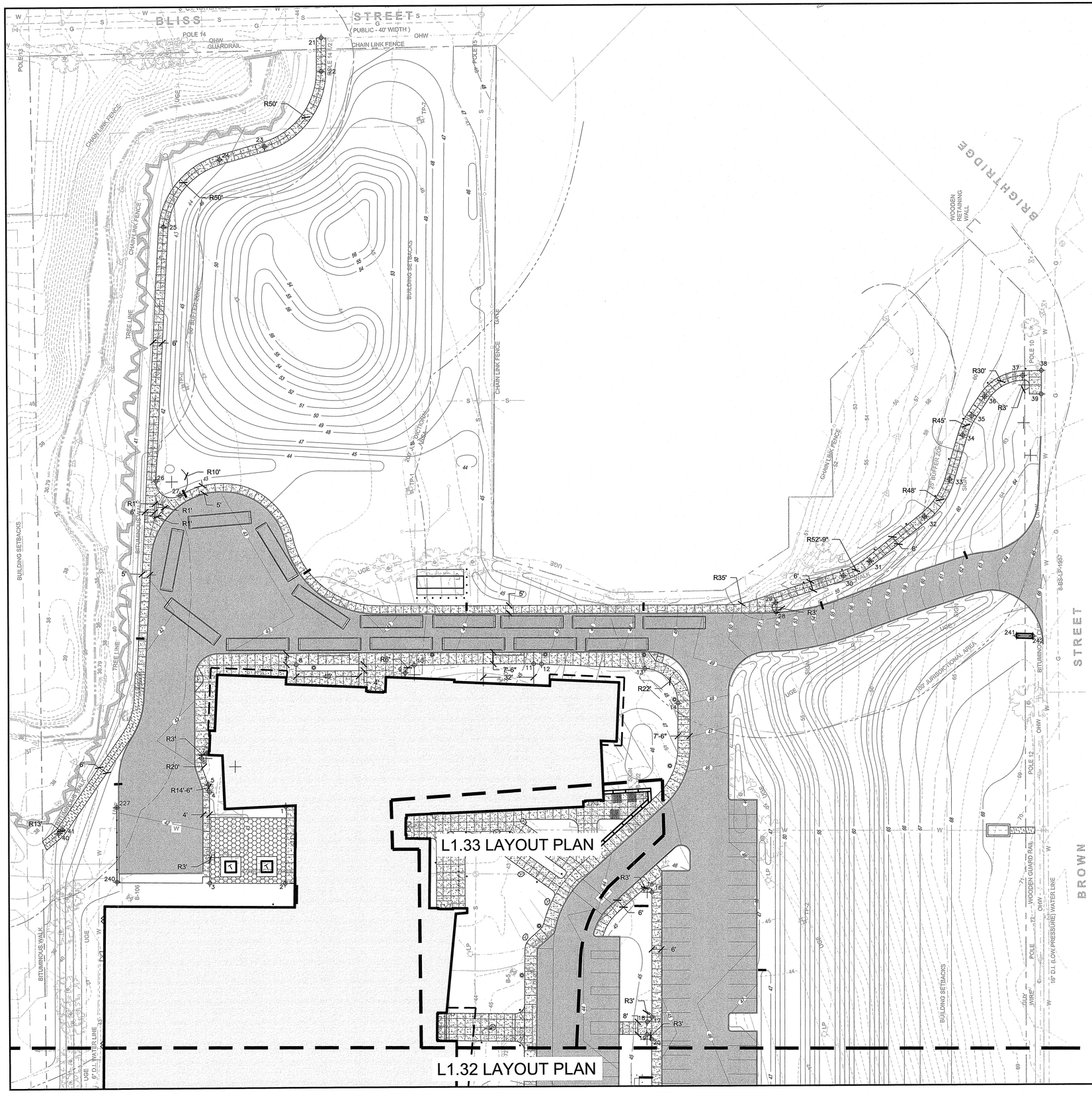
REVISIONS:

PROJECT NO.:	K1036
DATE:	SEPTEMBER 12, 2024
SCALE:	AS INDICATED
DESIGNED BY:	SD/YF/EL
CHECKED BY:	AE/SD/KB
DRAWN BY:	SD/YF/EL
APPROVED BY:	KB

DRAWING TITLE: HARDSCAPE PLAN

DRAWING NO.: L1.23

SHEET NO. 30 OF 47



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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DATED: JAN 02 2025 FILE #: 23-0151
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE

NORTHING/EASTING POINT SCHEDULE

POINT	DESCRIPTION	NORTHING	EASTING
1		N 264075.3437	E 364555.8895
2		N 264028.2439	E 364542.9572
3		N 264040.9419	E 364496.8048
4		N 264096.8286	E 364511.4966
5		N 264101.6171	E 364511.9302
6		N 264118.9667	E 364512.1139
7		N 264121.0969	E 364515.7918
8		N 264160.7993	E 364585.4926
9		N 264137.6902	E 364651.1004
10		N 264140.9257	E 364657.9583
11		N 264122.1555	E 364731.5658
12		N 264120.6569	E 364736.3413
13		N 264100.9652	E 364799.0951
14		N 264074.2733	E 364813.7568
15		N 263966.0155	E 364762.5718
16		N 263962.5691	E 364766.8353
17		N 263885.7841	E 364746.3012
18		N 263883.6601	E 364742.6313
19		N 263875.9784	E 364740.3895
20		N 263872.3067	E 364742.5105
21		N 264540.7656	E 364703.7437
22		N 264520.1476	E 364698.2191
23		N 264483.4505	E 364651.0706
24		N 264482.8265	E 364621.4258
25		N 264450.858	E 364575.8385
26		N 264296.6246	E 364529.6507
27		N 264284.0032	E 364542.0616
28		N 264113.8257	E 364888.9171
29		N 264119.6004	E 364890.1238
30		N 264125.2235	E 364936.3337
31		N 264129.7164	E 364954.8849
32		N 264147.9798	E 364995.9338
33		N 264166.7898	E 365017.3698
34		N 264191.7434	E 365032.6323
35		N 264202.0178	E 365041.2612
36		N 264211.7586	E 365052.3095
37		N 264218.3983	E 365079.2703
38		N 264218.4876	E 365091.5436
39		N 264203.9897	E 365087.6271
40		N 264096.253	E 364412.1701
41		N 264098.057	E 364414.9138
227		N 264102.6726	E 364452.066
240		N 264056.9919	E 364440.0358
241		N 264059.9273	E 365032.9461
242		N 264057.0565	E 365042.8712

NOTES:

1. REFER TO CIVIL PLANS FOR INFORMATION REGARDING ROADWAY, CURBS, PAVEMENT STRIPING, CROSSWALKS, UTILITIES, DRAINAGE, STORMWATER, GRADING, AND PHASING PLANS.

0 30 60 90 120 feet

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Ai3 ARCHITECTS

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SEP 13 2024

REGISTERED LANDSCAPE ARCHITECT
KIMBERLY MITCHELL GRUDNER
No. 429

REVISIONS:

PROJECT NO.:	K1036
DATE:	SEPTEMBER 12, 2024
SCALE:	AS INDICATED
DESIGNED BY:	SD/YF/EL
CHECKED BY:	AE/SD/KB
DRAWN BY:	SD/YF/EL
APPROVED BY:	KB

DRAWING TITLE:
LAYOUT PLAN

DRAWING NO.:
L1.31

SHEET NO. 31 OF 47



NORTHING/EASTING POINT SCHEDULE

POINT	DESCRIPTION	NORTHING	EASTING
42		N 263797.5264	E 364637.9803
43		N 263793.3142	E 364630.6713
44		N 263803.7798	E 364590.8155
45		N 263807.4592	E 364588.6799
46		N 263783.7326	E 364610.2779
47		N 263784.2386	E 364614.0478
48		N 263780.814	E 364627.0894
49		N 263773.4197	E 364631.3507
50		N 263728.3738	E 364620.5114
51		N 263720.5712	E 364607.6186
52		N 263677.0845	E 364625.487
53		N 263679.1321	E 364625.5831
54		N 263686.2815	E 364623.0355
55		N 263694.0921	E 364616.0236
56		N 263692.4697	E 364610.8156
57		N 263680.8453	E 364612.6491
58		N 263637.1401	E 364614.6835
59		N 263621.3967	E 364615.5952
60		N 263600.99	E 364634.695
61		N 263598.6766	E 364636.2084
62		N 263601.3477	E 364620.8315
63		N 263596.1406	E 364618.8407
64		N 263601.3304	E 364589.6881
65		N 263606.8446	E 364588.9941
66		N 263618.4864	E 364603.5203
67		N 263617.8234	E 364608.4376
68		N 263615.388	E 364587.6762
69		N 263781.5772	E 364326.3169
70		N 263759.4953	E 364392.9222
71		N 263708.7513	E 364421.4879
78		N 263631.5165	E 364465.1514
79		N 263622.5713	E 364498.6006
80		N 263616.9698	E 364455.3861
83		N 263611.5352	E 364454.7918
84		N 263580.618	E 364446.5282
85		N 263499.4676	E 364443.4699
86		N 263462.8308	E 364401.8755
87		N 263451.8457	E 364374.8824
88		N 263438.3921	E 364366.7528
89		N 263368.92	E 364350.5
90		N 263388.8069	E 364350.3736
91		N 263442.2683	E 364301.2023
92		N 263610.4048	E 364555.7375
97		N 263607.9002	E 364469.5213
110		N 263447.6748	E 364291.7512
111		N 263483.0492	E 364248.6325
112		N 263517.8222	E 364238.0322
121		N 263574.797	E 364252.5904
122		N 263518.9634	E 364229.7478
123		N 263511.5205	E 364218.7853
124		N 263512.3644	E 364213.2943
125		N 263499.3489	E 364208.7415
126		N 263455.926	E 364273.3892
127		N 263692.1538	E 364422.8547
128		N 263776.5365	E 364341.5212
129		N 263830.507	E 364356.2537
130		N 263828.6515	E 364363.0167
131		N 263913.181	E 364386.2081
132		N 263551.8024	E 364648.792
133		N 263462.5215	E 364677.0453
134		N 263451.5839	E 364676.1439
135		N 263418.8748	E 364680.2522
136		N 263400.7744	E 364681.2981
137		N 263383.4658	E 364675.4265
138		N 263375.4407	E 364674.0923
139		N 263346.6328	E 364686.7547
140		N 263339.3362	E 364700.896
141		N 263316.0044	E 364716.4703
142		N 263289.37	E 364742.4567
143		N 263287.1127	E 364759.8952
144		N 263280.9978	E 364774.5183
145		N 263266.3139	E 364793.3056
146		N 263263.1867	E 364803.8182
147		N 263235.7352	E 364826.9818
243		N 263329.0196	E 364835.9564
244		N 263326.1489	E 364845.8816

NOTES:

1. REFER TO CIVIL PLANS FOR INFORMATION REGARDING ROADWAY, CURBS, PAVEMENT STRIPING, CROSSWALKS, UTILITIES, DRAINAGE, STORMWATER, GRADING, AND PHASING PLANS.

0 30 60 90 120 feet

1" = 30'

N

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: JAN 02 2025 FILE #: 23-0151
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EDWARD R. MARTIN MIDDLE SCHOOL
EAST PROVIDENCE, RHODE ISLAND

Ai3 ARCHITECTS

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 33-07 & 33-15

SEP 12 2024

REGISTERED LANDSCAPE ARCHITECT
JEFFREY MICHAEL BRAGNER
No. 428

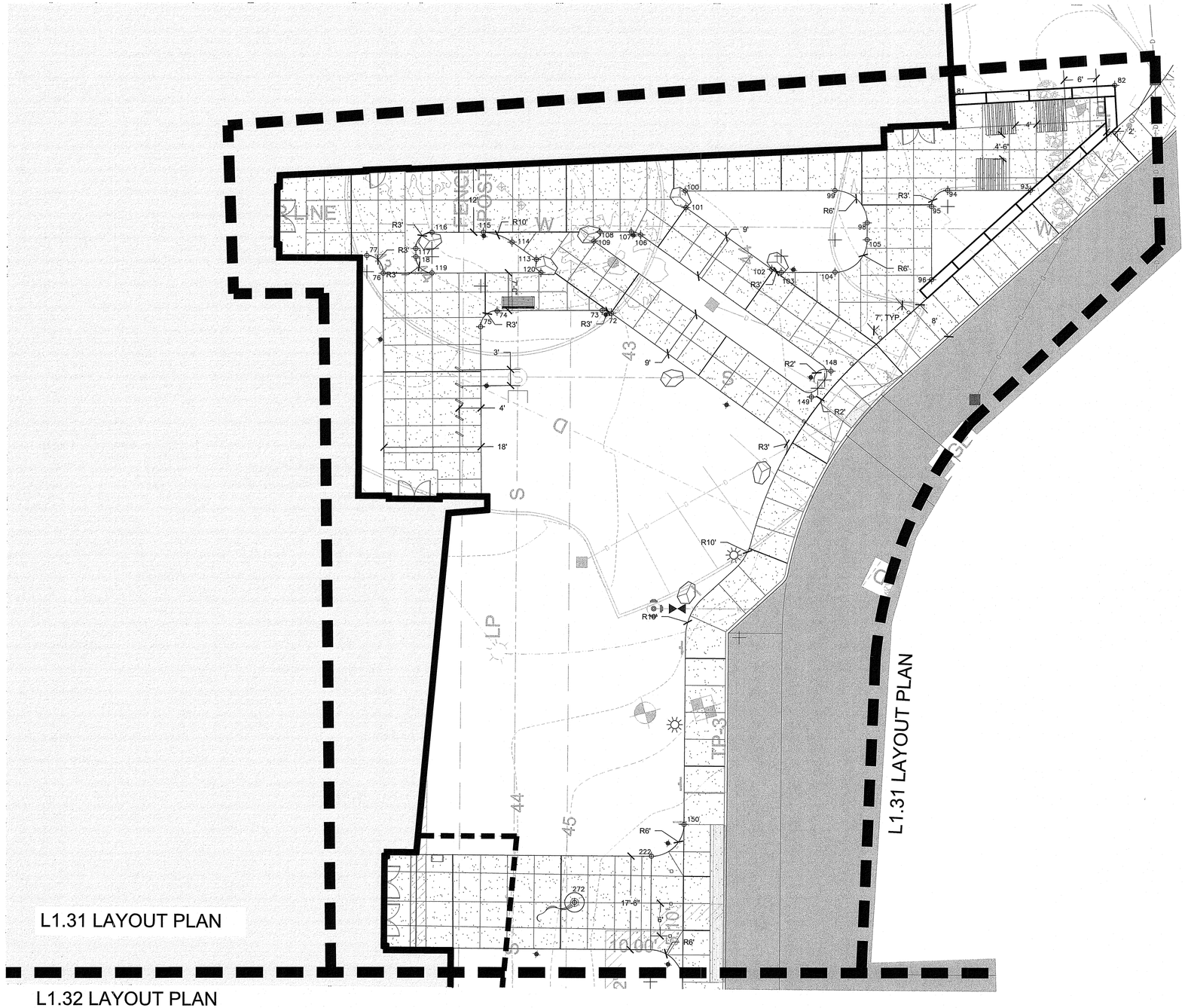
REVISIONS:

PROJECT NO.:	K1036
DATE:	SEPTEMBER 12, 2024
SCALE:	AS INDICATED
DESIGNED BY:	SD/YF/EL
CHECKED BY:	AE/SD/KB
DRAWN BY:	SD/YF/EL
APPROVED BY:	KB

DRAWING TITLE:
HARDSCAPE PLAN

DRAWING NO.:
L1.32

SHEET NO. 32 OF 47



NORTHING/EASTING POINT SCHEDULE

POINT	DESCRIPTION	NORTHING	EASTING
72		N 264009.6927	E 364681.5598
73		N 264010.6828	E 364680.0147
74		N 264015.5956	E 364661.1134
75		N 264013.5702	E 364657.3849
76		N 264027.8578	E 364642.4565
77		N 264031.8061	E 364640.3609
81		N 264032.5651	E 364753.6538
82		N 264026.4868	E 364782.9715
93		N 264011.6339	E 364762.8221
94		N 264015.5835	E 364747.9209
95		N 264013.4523	E 364744.2524
96		N 264000.3634	E 364740.7832
98		N 264013.6265	E 364731.8856
99		N 264020.9649	E 364727.6178
100		N 264028.0795	E 364700.6752
101		N 264025.0595	E 364699.9954
102		N 264009.8907	E 364712.5159
103		N 264008.9005	E 364714.0609
104		N 264006.3336	E 364723.7454
105		N 264010.5961	E 364731.0824
106		N 264022.3616	E 364690.5524
107		N 264023.3521	E 364689.0062
108		N 264024.8392	E 364683.3862
109		N 264023.4781	E 364681.851
113		N 264022.929	E 364670.6345
114		N 264027.2104	E 364667.1005
115		N 264030.3911	E 364662.3995
116		N 264032.8321	E 364653.1778
117		N 264030.7006	E 364649.5106
118		N 264029.2175	E 364649.1175
119		N 264025.549	E 364651.2488
120		N 264020.3603	E 364670.825
148		N 263988.7876	E 364718.2647
149		N 263985.1024	E 364713.5266
150		N 263914.5362	E 364670.1594
222		N 263910.3419	E 364662.7832
272		N 263905.7605	E 364646.7712

NOTES:

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0 10 20 30 40 feet

1" = 10'

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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ARCHITECTS

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 33-07 & 33-15

SEP 13 2024

REGISTERED PROFESSIONAL ARCHITECT
KEVIN MICHELL BAUDNER
No. 425

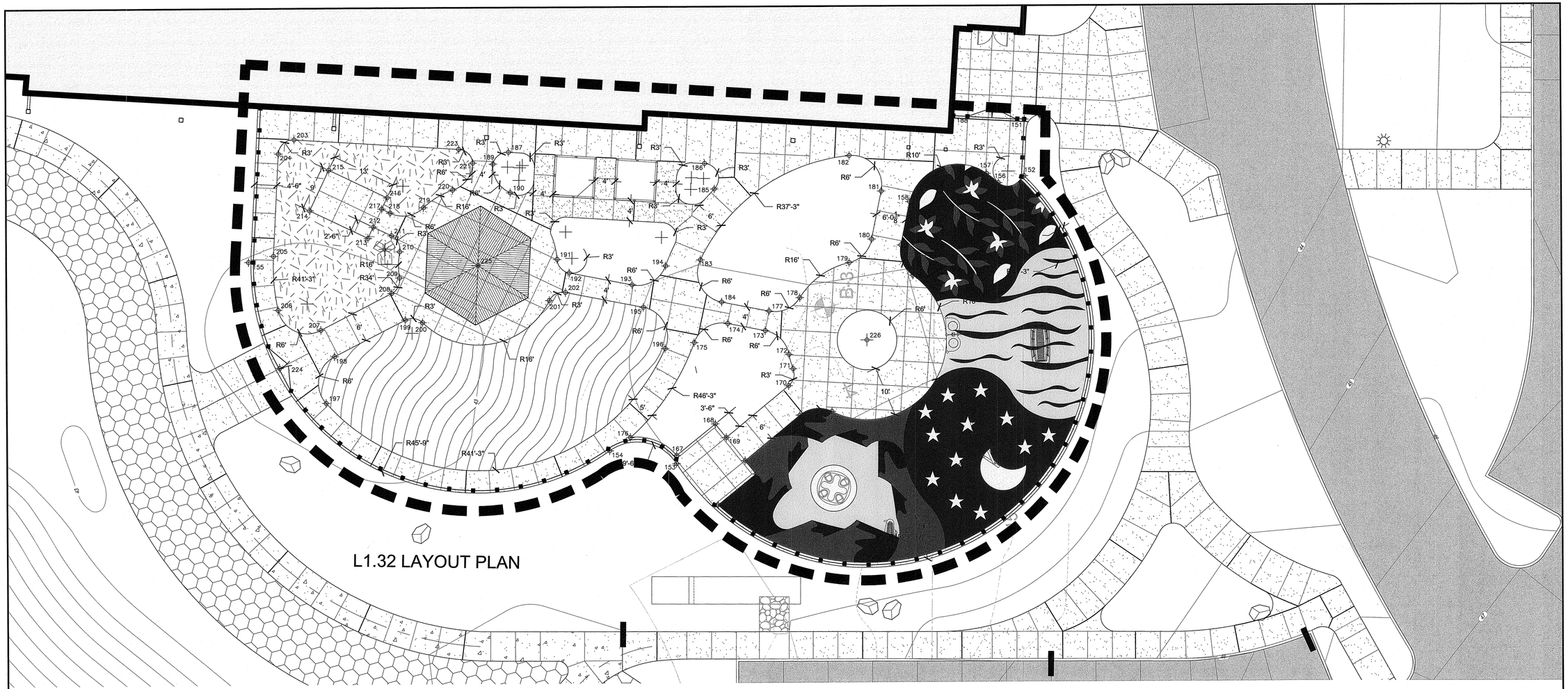
REVISIONS:

PROJECT NO.:	K1036
DATE:	SEPTEMBER 12, 2024
SCALE:	AS INDICATED
DESIGNED BY:	SD/YF/EL
CHECKED BY:	AE/SD/KB
DRAWN BY:	SD/YF/EL
APPROVED BY:	KB

DRAWING TITLE:
LAYOUT PLAN

DRAWING NO.:
L1.33

SHEET NO. 33 OF 47



NORTHING/EASTING POINT SCHEDULE

POINT	DESCRIPTION	NORTHING	EASTING
151		N 263705.6495	E 364598.5452
152		N 263694.6304	E 364595.548
153		N 263656.8176	E 364512.9012
154		N 263662.7919	E 364500.5439
155		N 263718.2747	E 364440.0977
156		N 263694.6398	E 364590.1689
157		N 263697.0277	E 364588.3875
158		N 263695.5793	E 364571.9077
160		N 263687.6062	E 364567.9726
161		N 263681.1288	E 364568.7397
162		N 263658.8738	E 364545.887
163		N 263659.8124	E 364539.4322
164		N 263653.8332	E 364526.4046
165		N 263650.6548	E 364527.8329
166		N 263646.6162	E 364518.8459
167		N 263658.3974	E 364513.3469
168		N 263662.5125	E 364522.5043
169		N 263659.3062	E 364523.9451
170		N 263666.1194	E 364538.79
171		N 263669.1723	E 364540.5208
172		N 263672.1621	E 364540.4747
173		N 263678.0324	E 364537.1047
174		N 263681.3835	E 364530.1733
175		N 263679.3895	E 364522.6234
176		N 263664.298	E 364505.2556
177		N 263681.6336	E 364538.8457
178		N 263682.6383	E 364545.5397
179		N 263686.9027	E 364556.9909
180		N 263690.2526	E 364562.5877
181		N 263699.0938	E 364566.9327
182		N 263707.659	E 364562.5312
183		N 263695.1714	E 364528.1578
184		N 263685.8622	E 364530.0995
185		N 263708.2102	E 364534.5292
186		N 263713.6454	E 364533.953
187		N 263726.0821	E 364496.3757
188		N 263710.0044	E 364584.919
189		N 263724.5519	E 364492.738
190		N 263718.0974	E 364494.6219
191		N 263702.7303	E 364500.2882
192		N 263699.4804	E 364501.9318
193		N 263693.8656	E 364513.5454
194		N 263695.813	E 364521.0628
195		N 263688.9152	E 364514.5949
196		N 263679.7442	E 364516.6515
197		N 263686.8446	E 364447.8479
198		N 263695.4424	E 364451.905
199		N 263698.8742	E 364467.5886
200		N 263697.4775	E 364470.8081
201		N 263695.1488	E 364496.6228
202		N 263695.8792	E 364500.1907
203		N 263739.6791	E 364455.2925
204		N 263737.7423	E 364451.4916
205		N 263718.1634	E 364445.2495
206		N 263707.4217	E 364443.3458
207		N 263701.3038	E 364450.6228
208		N 263704.7355	E 364466.3061
209		N 263707.3492	E 364468.648
210		N 263712.4166	E 364470.0558
211		N 263715.9737	E 364469.2746
212		N 263718.5877	E 364466.1861
213		N 263716.6794	E 364464.571
214		N 263725.0778	E 364454.648
215		N 263731.9476	E 364460.4622
216		N 263723.5492	E 364470.3853
217		N 263721.6409	E 364468.7702
218		N 263720.4247	E 364470.2072
219		N 263719.7284	E 364476.9402
220		N 263721.6256	E 364483.5333
221		N 263725.8013	E 364488.8391
223		N 263729.2381	E 364486.84
224		N 263696.0436	E 364440.6158
225		N 263705.6584	E 364484.5584
226		N 263670.9127	E 364556.4259
228		N 263710.4709	E 364504.3135
229		N 263704.3921	E 364522.6946
230		N 263699.5578	E 364524.0011
231		N 263712.5116	E 364527.8306
232		N 263714.4171	E 364531.6213
233		N 263725.311	E 364498.7054
234		N 263721.5204	E 364500.6109
235		N 263710.2956	E 364527.0972
236		N 263706.5049	E 364529.0026
237		N 263706.3356	E 364529.5141
238		N 263706.6933	E 364532.1221
239		N 263719.1068	E 364499.8121

NOTES:

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0 10 20 30 40 feet

1" = 10'

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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Ai3 ARCHITECTS

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 3307 & 3315

SEP 12 2024

REGISTERED LANDSCAPE ARCHITECT
MICHAEL BRAUNER
No. 428

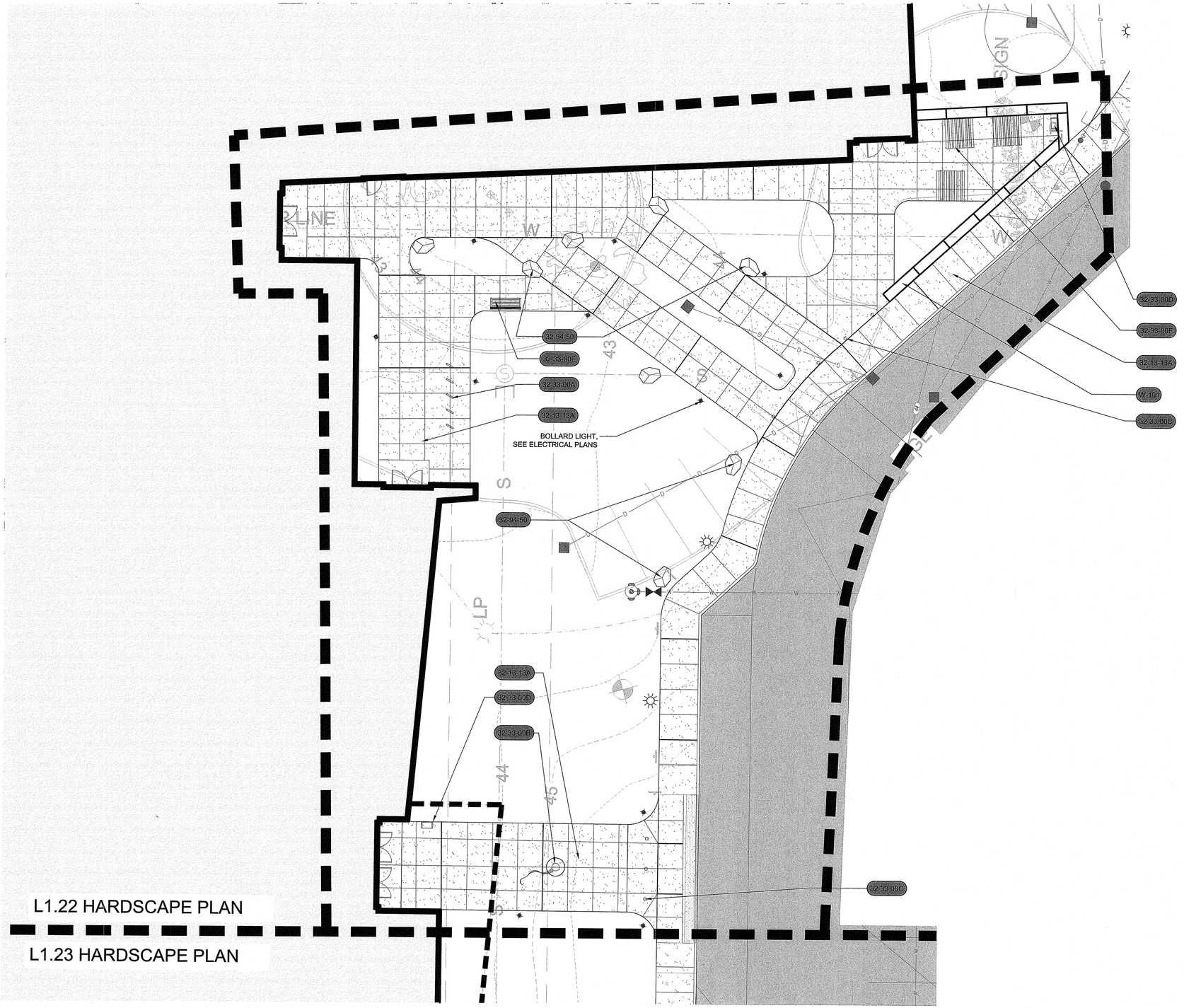
REVISIONS:

PROJECT NO.:	K1036
DATE:	SEPTEMBER 12, 2024
SCALE:	AS INDICATED
DESIGNED BY:	SD/YF/EL
CHECKED BY:	AE/SD/KB
DRAWN BY:	SD/YF/EL
APPROVED BY:	KB

DRAWING TITLE:
LAYOUT PLAN

DRAWING NO.:
L1.34

SHEET NO. 34 OF 47



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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DATED: JAN 0 2 2025 FILE #: 22-0151
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REFERENCE NOTES SCHEDULE L1.41

32 EXTERIOR IMPROVEMENTS

SYMBOL	CODE	DESCRIPTION	DETAIL
	32-13-13A	CONCRETE PAVING	1/L3.01
	32-33-00A	BIKE RACK	5/L3.03
	32-33-00B	FLAG POLE	6/L3.03
	32-33-00C	ORNAMENTAL BOLLARD	4/L3.03
	32-33-00D	LITTER AND RECYCLE RECEPTACLE	3/L3.03
	32-33-00E	ORNAMENTAL BENCH	2/L3.03
	32-33-00F	PICNIC TABLE	1/L3.03
	32-94-50	LANDSCAPE BOULDER	7/L3.03

WALL

	W-101	±24-30" REUSED GRANITE BLOCK RETAINING/SEAT WALL	6/L3.01

0 10 20 30 40 feet
1" = 10'

N

NOTES:

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EAST PROVIDENCE, RHODE ISLAND

Ai3 ARCHITECTS

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 3307 & 3315

SEP 12 2024

REGISTERED PROFESSIONAL ENGINEER
MITCHELL BRUDNER
No. 4215
CIVIL ENGINEER ARCHITECT

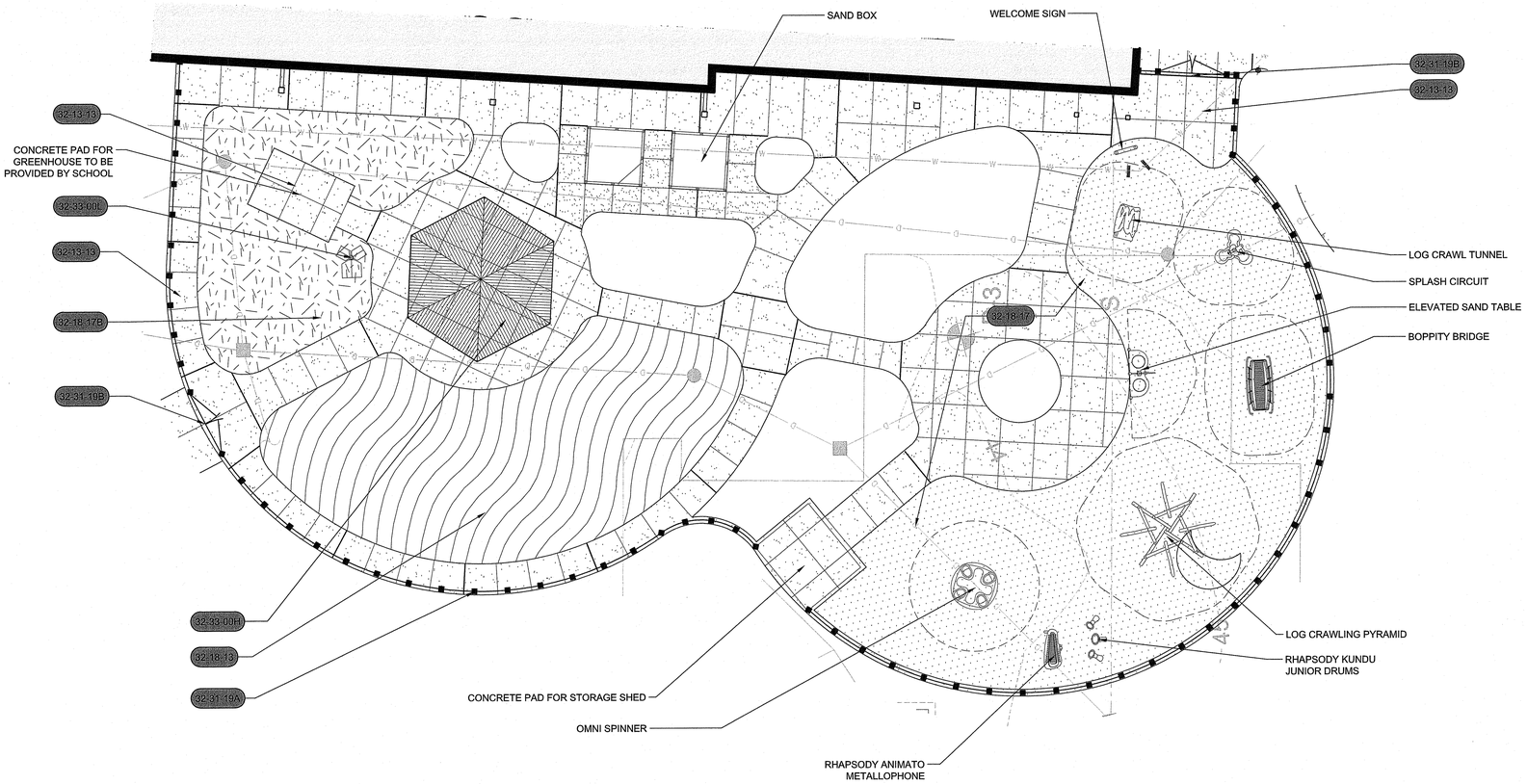
REVISIONS:

PROJECT NO.:	K1036
DATE:	SEPTEMBER 12, 2024
SCALE:	AS INDICATED
DESIGNED BY:	SD/YF/EL
CHECKED BY:	AE/SD/KB
DRAWN BY:	SD/YF/EL
APPROVED BY:	KB

DRAWING TITLE:
ENLARGEMENT PLAN

DRAWING NO.:
L1.41

SHEET NO. 35 OF 47



REFERENCE NOTES SCHEDULE L1.42

32 EXTERIOR IMPROVEMENTS

SYMBOL	CODE	DESCRIPTION	DETAIL
	32.13.13A	CONCRETE PAVING	1/L3.01
	32.18.13	PLAYGROUND TURF	4/L3.04
	32.18.17	PLAYGROUND PROTECTIVE SURFACING	1/L3.04
	32.18.17B	PLAYGROUND FIBAR MULCH	3/L3.04
	32.31.19A	ORNAMENTAL FENCE	3/L3.02
	32.31.19B	ORNAMENTAL GATE	4/L3.02
	32.33.00H	SHADE STRUCTURE	5/L3.04
	32.33.00L	BIRD HOUSE	

NOTE:

PRE-K PROGRAM SHALL FURNISH SANDBOXES, SPLASH CIRCUIT, AND ELEVATED SAND TABLE.

NOTES:

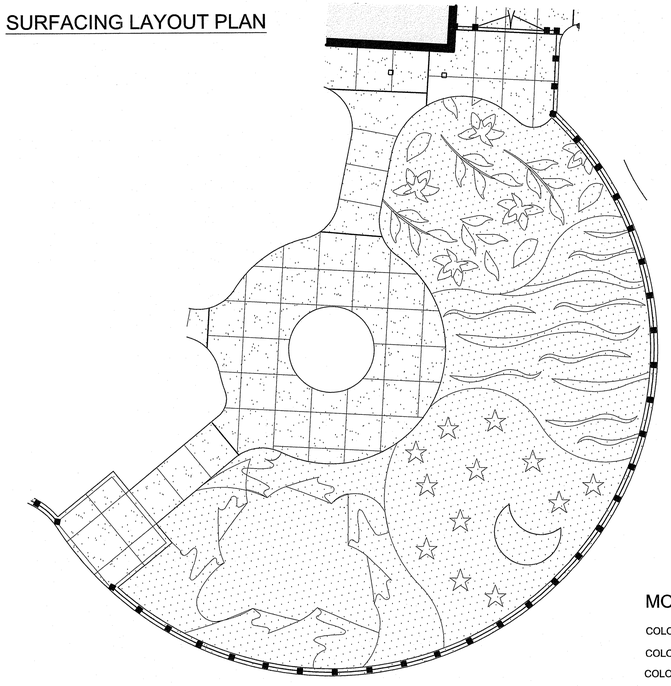
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0 10 20 30 40 feet

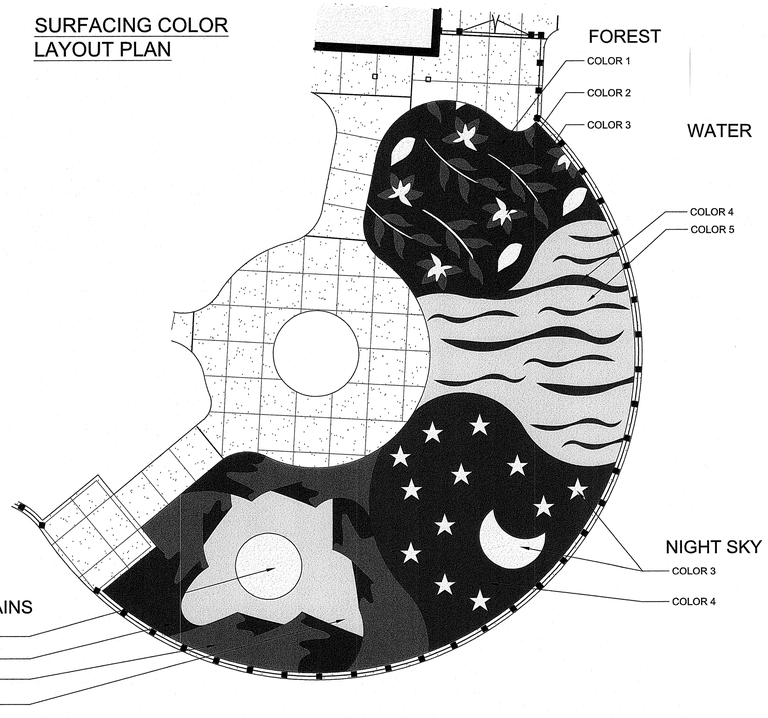
1" = 10'

N

SURFACING LAYOUT PLAN



SURFACING COLOR LAYOUT PLAN



PLAY SURFACING COLORS

COLOR 1
FOREST & MOUNTAINS
75% HUNTER GREEN, 25% DARK GREEN

COLOR 4
WATER & NIGHT SKY
100% ROYAL BLUE

COLOR 2
FOREST & MOUNTAINS
75% HUNTER GREEN, 25% PEARL

COLOR 5
WATER & MOUNTAINS
75% SKY BLUE, 25% PEARL

COLOR 3
FOREST, NIGHT SKY, & MOUNTAINS
100% EGGSHELL

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LAYOUT NOTES:

1. CONTRACTOR SHALL REVIEW PLAY SURFACING COLOR MIXES AND LAYOUT WITH INSTALLATION CREW.
2. INSTALLATION CREW SHOULD HAVE FULL SIZE TO SCALE DRAWINGS OF PLAYGROUND SURFACING LAYOUT.
3. THE ORGANIC, NATURALISTIC LAYOUT OF THE COLOR BLOCKING REPRESENTS FOREST, WATER, ARCTIC AND DESERT.
4. USING THIS DESIGN INTENT, AND THE RELATIONSHIPS TO THE EQUIPMENT, THE CONTRACTOR SHALL LAY OUT THE COLOR BLOCKING PER PLAN FOR REVIEW, EDITING AND APPROVAL BY THE LANDSCAPE ARCHITECT.

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Ai3
ARCHITECTS

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Plat 307, Lots 3307 & 3315

SEP 19 2024

REGISTERED LANDSCAPE ARCHITECT
KEVIN MITCHELL BRADNER
No. 428

REVISIONS:

PROJECT NO.:	K1036
DATE:	SEPTEMBER 12, 2024
SCALE:	AS INDICATED
DESIGNED BY:	SD/YF/EL
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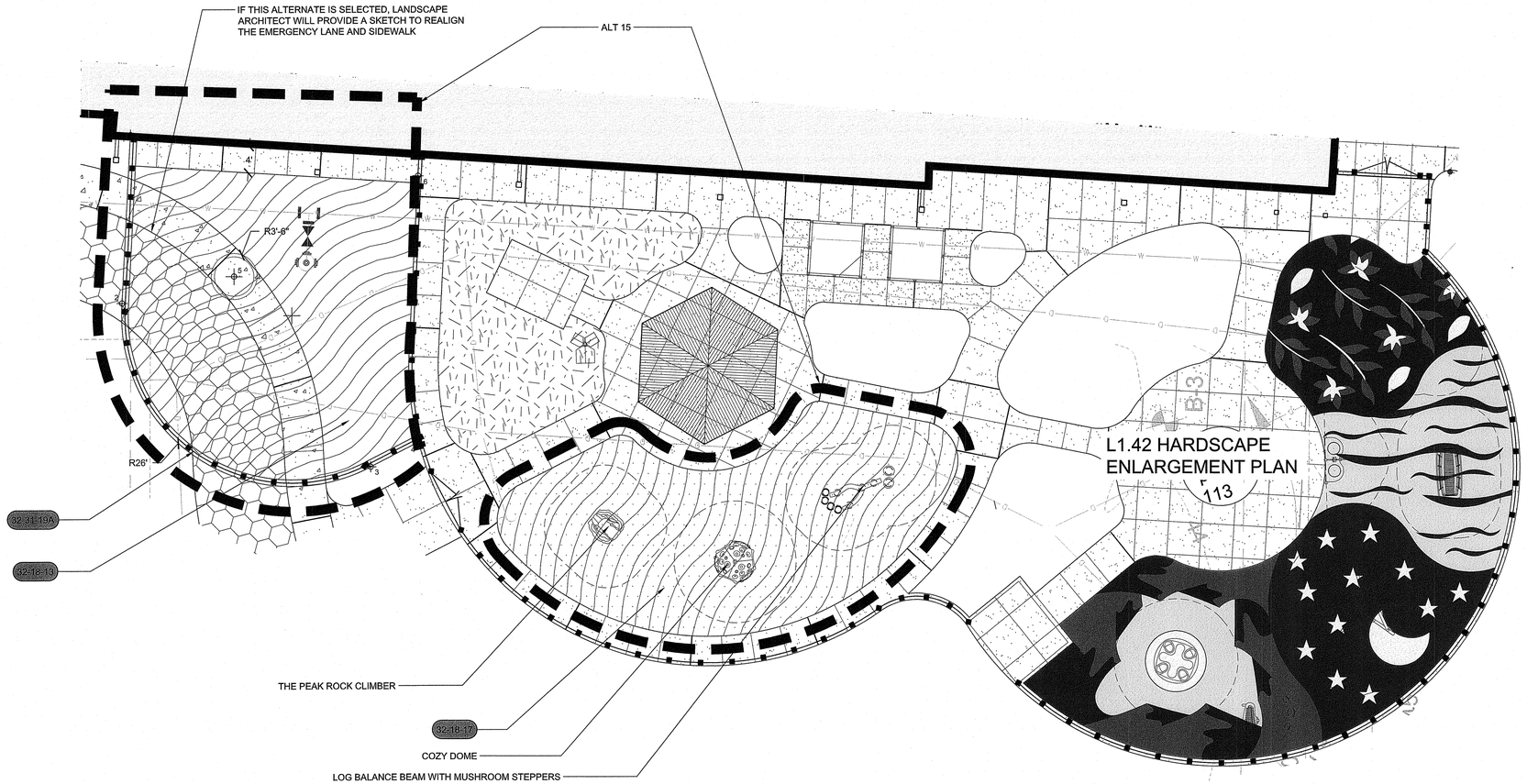
DRAWING TITLE:

ENLARGEMENT PLAN

DRAWING NO.:

L1.42

SHEET NO. 36 OF 47



REFERENCE NOTES SCHEDULE L1.42A

CONCRETE PAVING

SYMBOL	DESCRIPTION	QTY	DETAIL
32-13-13	CONCRETE PAVING	173 sf	1/L3.01

ATHLETIC AND RECREATIONAL SURFACING

SYMBOL	DESCRIPTION	QTY	DETAIL
32-18-13	PLAYGROUND TURF	1,836 sf	4/L3.04
32-18-17	PLAYGROUND PROTECTIVE SURFACING	1,638 sf	1/L3.04

FENCES AND GATES

SYMBOL	DESCRIPTION	QTY	DETAIL
32-31-19A	ORNAMENTAL FENCE	368 lf	3/L3.02

FENCES AND GATES

SYMBOL	DESCRIPTION	QTY	DETAIL
32-31-19B	ORNAMENTAL GATE	1	4/L3.02

SITE FURNISHINGS

SYMBOL	DESCRIPTION	QTY	DETAIL
32-33-00H	SHADE STRUCTURE	1	5/L3.04
32-33-00L	BIRD HOUSE	1	

0 30 60 90 120 feet

1" = 30'

N

NOTES:

1. REFER TO CIVIL PLANS FOR INFORMATION REGARDING ROADWAY, CURBS, PAVEMENT STRIPING, CROSSWALKS, UTILITIES, DRAINAGE, STORMWATER, GRADING, AND PHASING PLANS.

NORTHING/EASTING POINT SCHEDULE

POINT	DESCRIPTION	NORTHING	EASTING
1		N 263762.26	E 364408.20
2		N 263737.80	E 364400.42
3		N 263703.98	E 364430.77
4		N 263705.74	E 364438.81
5		N 263737.36	E 364418.00
6		N 263745.03	E 364449.09

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Ai3 ARCHITECTS

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Plat 307, Lots 3307 & 3315

SEP 12 2024

REGISTERED LANDSCAPE ARCHITECT
KEVIN BRADNER
No. 429

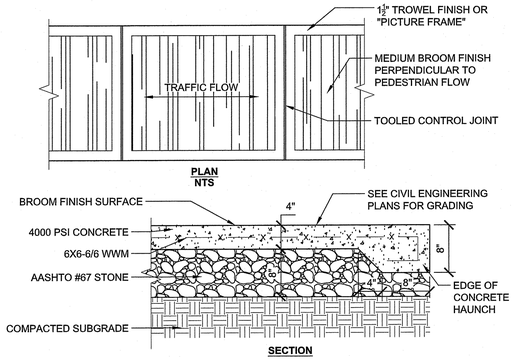
REVISIONS:

PROJECT NO.:	K1036
DATE:	SEPTEMBER 12, 2024
SCALE:	AS INDICATED
DESIGNED BY:	SD/YF/EL
CHECKED BY:	AE/SD/KB
DRAWN BY:	SD/YF/EL
APPROVED BY:	KB

DRAWING TITLE:
ENLARGEMENT PLAN

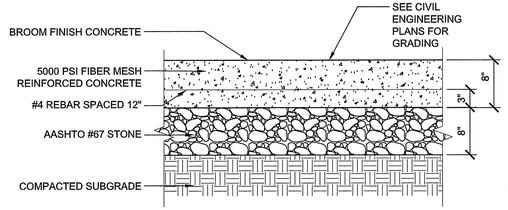
DRAWING NO.:
L1.42A

SHEET NO. 37 OF 47



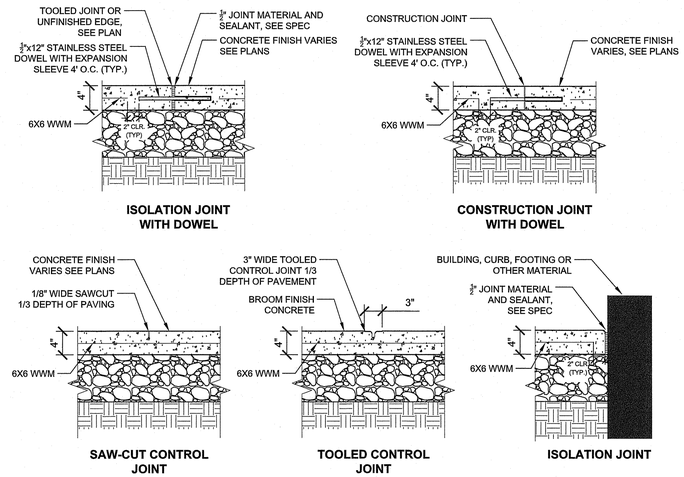
NOTES:
1. JOINTS SHALL BE TOOLED PER DETAILS AND SHALL BE PLACED AS FOLLOWS UNLESS OTHERWISE NOTED ON THE PLANS.
2. ISOLATION JOINTS SHALL BE INSTALLED AS NOTED ON THE PLANS.
3. CONTROL JOINTS SHALL BE PLACED AS NOTED ON THE PLANS.
4. BROOM FINISH SHALL BE PERPENDICULAR TO PEDESTRIAN TRAFFIC FLOW UNLESS OTHERWISE NOTED ON THE PLANS.

1 CONCRETE PAVING
1" = 1'-0"

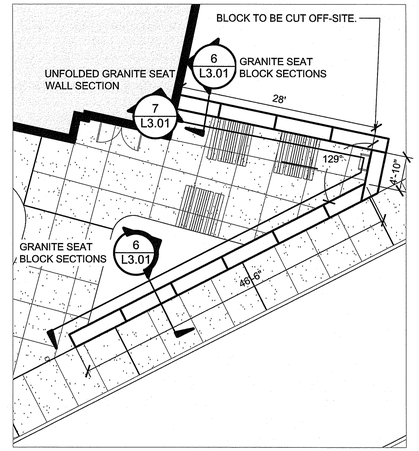


NOTES:
1. JOINTS SHALL BE TOOLED PER DETAILS AND SHALL BE PLACED AS FOLLOWS UNLESS OTHERWISE NOTED ON THE PLANS.
2. CONCRETE SHALL ACHIEVE 75% OF ITS STRENGTH BEFORE VEHICLE TRAFFIC CAN TRAVEL OVER IT.
3. THE CONTRACTOR SHALL PROVIDE A TEST LOCATION FOR COLOR COMPARISON TO THE ADJACENT WALK SURFACE IN THE DOWNTOWN AREA.
4. ALL CONCRETE WALK SURFACES SHALL BE SPRAYED IN TWO DIRECTIONS WITH AN ADEQUATE AMOUNT OF IMPERVIOUS MEMBRANE CURING COMPOUND IN CONFORMANCE WITH SUBSET 476.71C. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR CURING COMPOUND.
5. REFER TO SPEC FOR MORE INFORMATION.

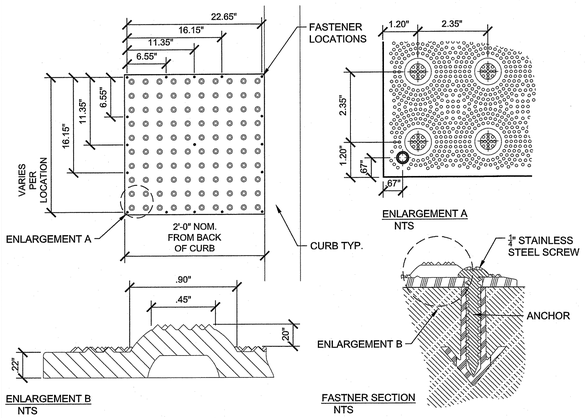
2 REINFORCED CEMENT CONCRETE PAVING
1" = 1'-0"



3 CONCRETE PAVEMENT JOINTS
1" = 1'-0"

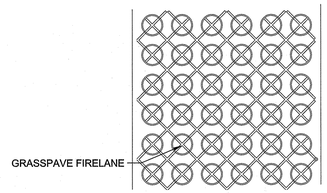


GRANITE RETAINING SEAT WALL

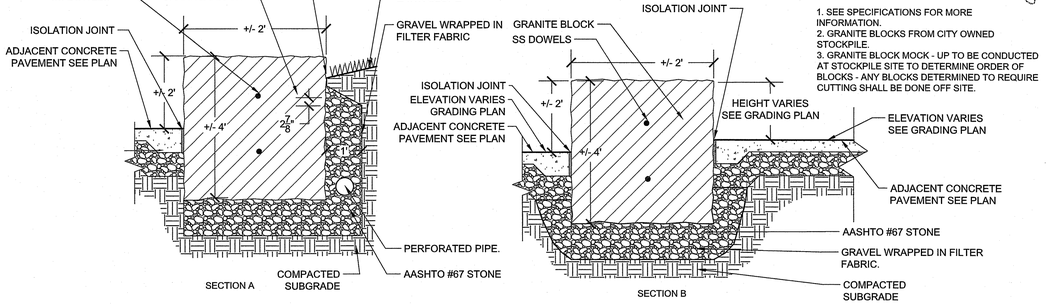


NOTES:
1. ALL DETECTABLE WARNING PLATES TO MEET MAAB REQUIREMENTS.
2. SEE CIVIL DETAILS FOR STANDARD CURB CUT.
3. SEE SPECIFICATIONS FOR MATERIAL AND MANUFACTURER.
4. DETECTABLE WARNING PLATES SHALL BE ABLE TO BE PLACED ON A RADIUS.

4 STEEL DETECTABLE WARNING PLATE
1" = 1'-0"



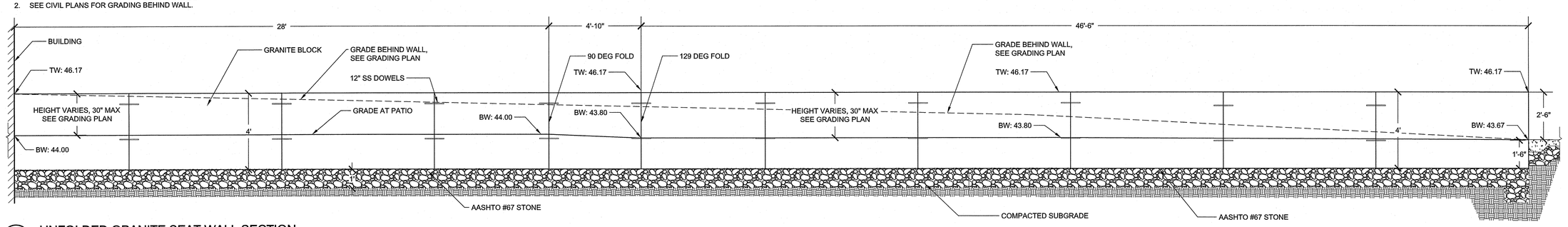
5 STABILIZED LAWN DRIVE
1" = 1'-0"



6 GRANITE SEAT BLOCK SECTIONS
1/2" = 1'-0"

P-EDU-EPM-52

NOTES:
1. STEP BLOCKS SHALL BE 12" MIN BELOW GRADE.
2. SEE CIVIL PLANS FOR GRADING BEHIND WALL.



7 UNFOLDED GRANITE SEAT WALL SECTION
3/8" = 1'-0"

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NOTE:
1. SEE SPECIFICATIONS FOR MORE INFORMATION.
2. GRANITE BLOCKS FROM CITY OWNED STOCKPILE.
3. GRANITE BLOCK MOCK - UP TO BE CONDUCTED AT STOCKPILE SITE TO DETERMINE ORDER OF BLOCKS - ANY BLOCKS DETERMINED TO REQUIRE CUTTING SHALL BE DONE OFF SITE.

SEP 12 2024

REGISTERED PROFESSIONAL ENGINEER KEVIN MICHAEL BRADNER No. 428 STORMWATER ANALYST

REVISIONS:

PROJECT NO.:	K1036
DATE:	SEPTEMBER 12, 2024
SCALE:	AS INDICATED
DESIGNED BY:	SD/YF/EL
CHECKED BY:	AE/SD/KB
DRAWN BY:	SD/YF/EL
APPROVED BY:	KB

DRAWING TITLE: SITE DETAILS

DRAWING NO.: L3.01

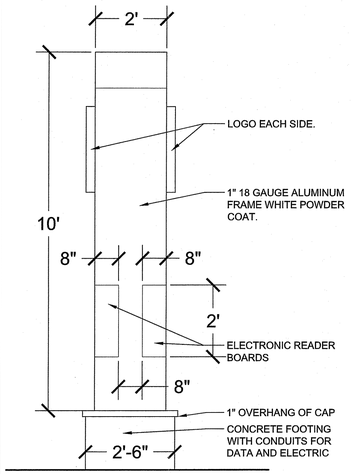
SHEET NO. 38 OF 47

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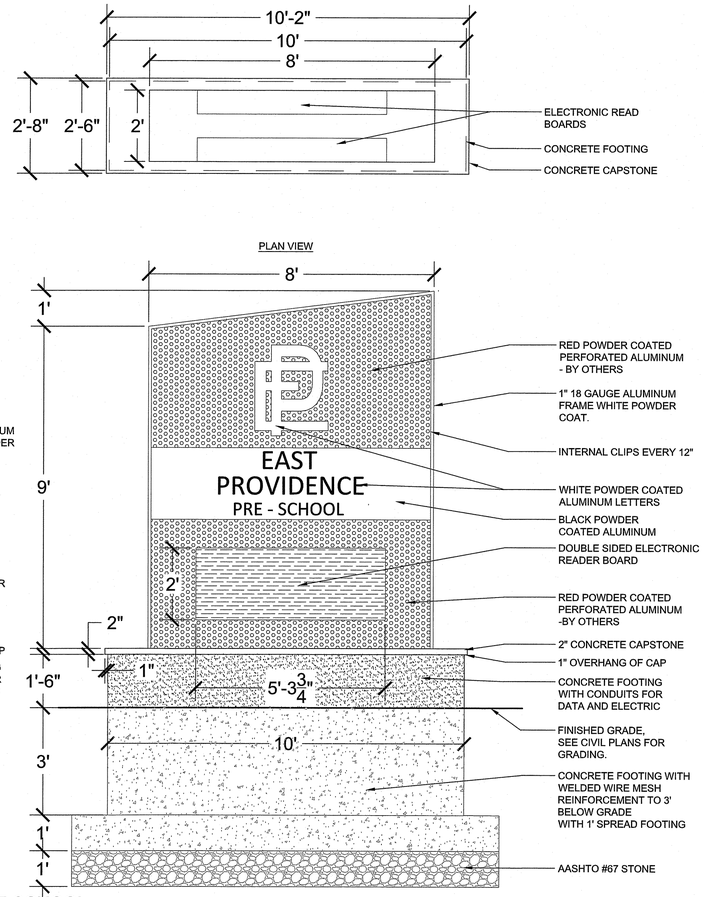
AI3 ARCHITECTS

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 33-07 & 33-15

NOTES:
1. CONTRACTOR SHALL SUPPLY SHOP DRAWINGS STAMPED BY A CURRENT LICENSED ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED.
2. OWNER SHALL HAVE FINAL APPROVALS ON ALL COLORS, FONTS & LETTERING, & LOGO.



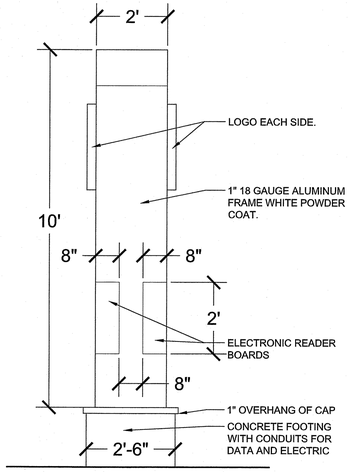
FRONT ELEVATION



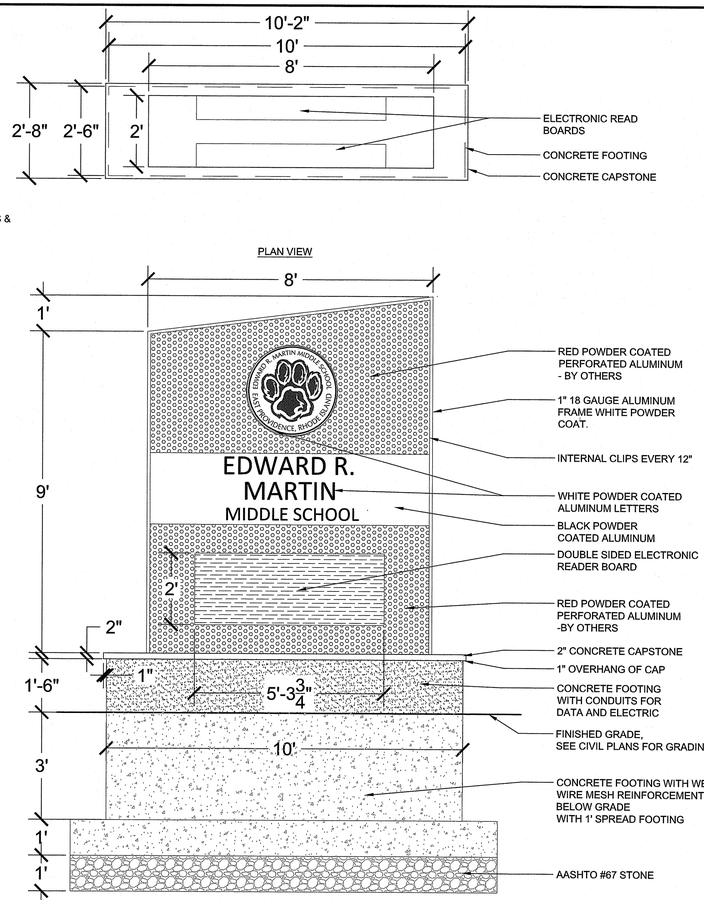
1 DOUBLE SIDED ENTRY SIGN PRE-SCHOOL

1/2" = 1'-0" P-EDU-EPM-287

NOTES:
1. CONTRACTOR SHALL SUPPLY SHOP DRAWINGS STAMPED BY A CURRENT LICENSED ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED.
2. OWNER SHALL HAVE FINAL APPROVALS ON ALL COLORS, FONTS & LETTERING, & LOGO.



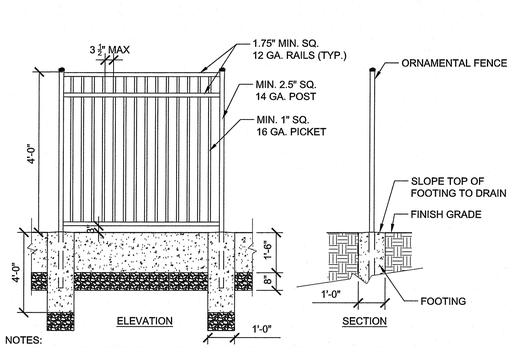
FRONT ELEVATION



SIDE ELEVATION

2 DOUBLE SIDED ENTRY SIGN MIDDLE SCHOOL

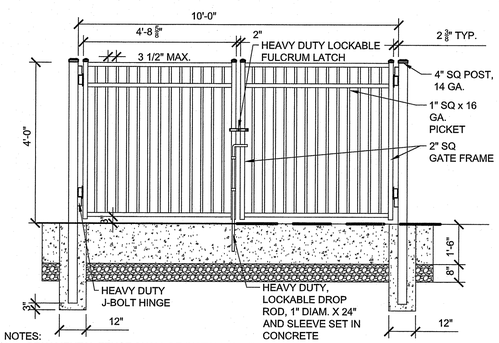
1/2" = 1'-0" P-EDU-EPM-289



NOTES:
1. ORNAMENTAL FENCE SHALL BE INSTALLED AT LOCATIONS SHOWN ON THE PLANS.
2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
3. SEE SPECIFICATIONS FOR MANUFACTURER, MODEL, & FINISH

3 4' ORNAMENTAL METAL FENCE

3/8" = 1'-0" P-EDU-EPM-11

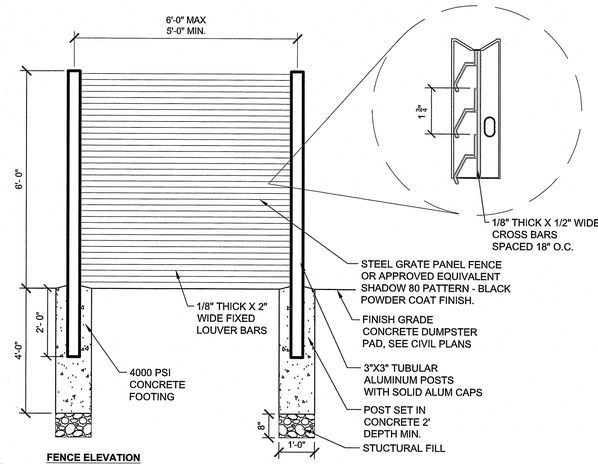


NOTES:
1. ORNAMENTAL FENCE SHALL BE INSTALLED AT LOCATIONS SHOWN ON THE PLANS.
2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
3. SEE SPECIFICATIONS FOR MANUFACTURER, MODEL, & FINISH

4 4` ORNAMENTAL DOUBLE SWING GATE

3/8" = 1'-0" P-EDU-EPM-38

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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FENCE ELEVATION

NOTE:
1. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR ALUMINUM LOUVER FENCE SYSTEM
2. SEE SPECIFICATION FOR MANUFACTURER, MODEL & FINISH
3. FENCE SHALL BE INSTALLED AT THE LOCATIONS SHOWN ON THE PLAN
4. STEEL FENCE SYSTEM- ALL STEEL COMPONENTS SHALL BE GALVANIZED AND SHALL HAVE A BLACK POWDER COAT FINISH.
5. ALL FASTENERS TO BE MARINE GRADE STAINLESS STEEL (SAE 316)
6. CONTRACTOR TO COORDINATE FOUNDATIONS WITH FENCE/GATE SYSTEM AND PROVIDE DRAWINGS FOR BOTH STAMPED AND LICENSED RI STRUCTURAL ENGINEER.

5 LOUVERED FENCE

1/2" = 1'-0" P-EDU-EPM-88

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ARCHITECTS

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 33-07 & 33-15

SEP 13 2024

REGISTERED LANDSCAPE ARCHITECT
JAMES MCGILL BRADNER
No. 428

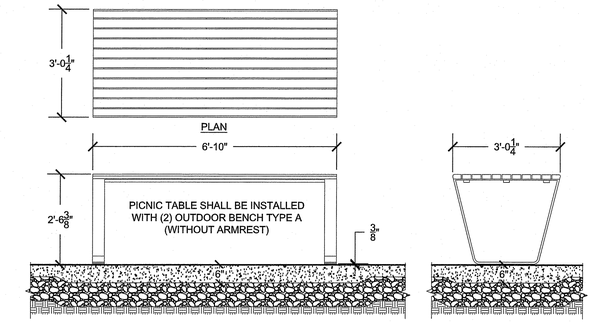
REVISIONS:

PROJECT NO.:	K1036
DATE:	SEPTEMBER 12, 2024
SCALE:	AS INDICATED
DESIGNED BY:	SD/YF/EL
CHECKED BY:	AE/SD/KB
DRAWN BY:	SD/YF/EL
APPROVED BY:	KB

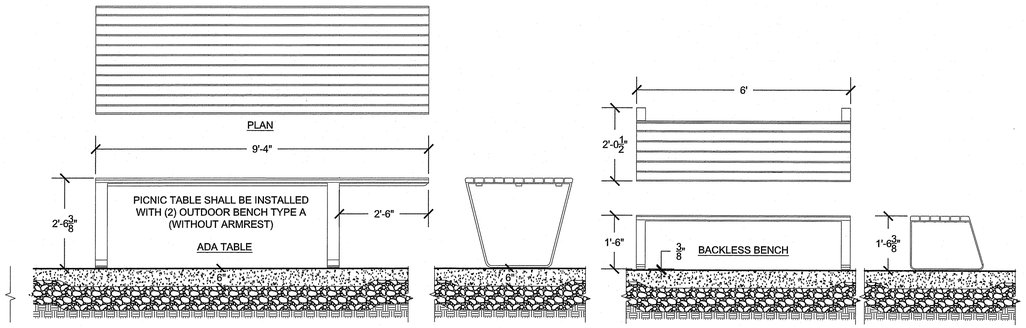
DRAWING TITLE:
SITE DETAILS

DRAWING NO.:
L3.02

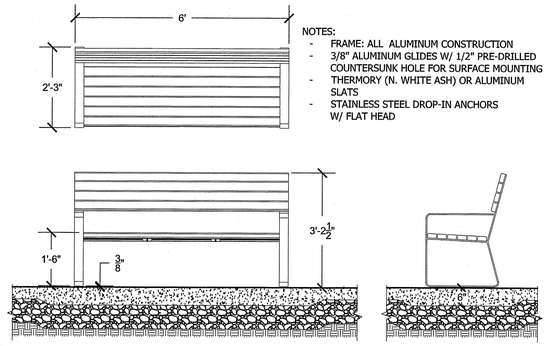
SHEET NO. 39 OF 47



NOTES:
- FRAME: ALL ALUMINUM CONSTRUCTION
- 3/8" ALUMINUM GLIDES W/ 1/2" PRE-DRILLED COUNTERSUNK HOLE FOR SURFACE MOUNTING
- THERMORY (N. WHITE ASH) OR ALUMINUM SLATS
- STAINLESS STEEL DROP-IN ANCHORS W/ FLAT HEAD

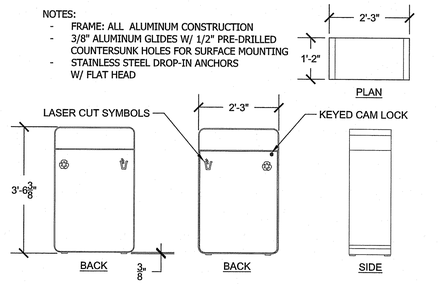


1 OUTDOOR PICNIC TABLE
1/2" = 1'-0"



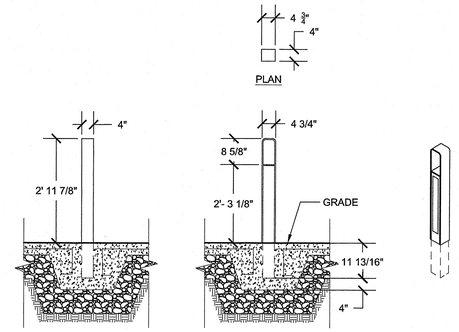
NOTES:
- FRAME: ALL ALUMINUM CONSTRUCTION
- 3/8" ALUMINUM GLIDES W/ 1/2" PRE-DRILLED COUNTERSUNK HOLE FOR SURFACE MOUNTING
- THERMORY (N. WHITE ASH) OR ALUMINUM SLATS
- STAINLESS STEEL DROP-IN ANCHORS W/ FLAT HEAD

2 OUTDOOR BENCH
1/2" = 1'-0"



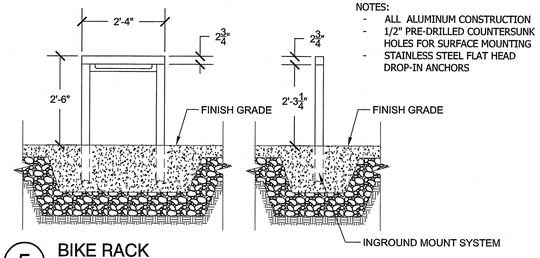
NOTES:
- FRAME: ALL ALUMINUM CONSTRUCTION
- 3/8" ALUMINUM GLIDES W/ 1/2" PRE-DRILLED COUNTERSUNK HOLES FOR SURFACE MOUNTING
- STAINLESS STEEL DROP-IN ANCHORS W/ FLAT HEAD

3 LITTER/RECYCLE RECEPTACLE
1/2" = 1'-0"



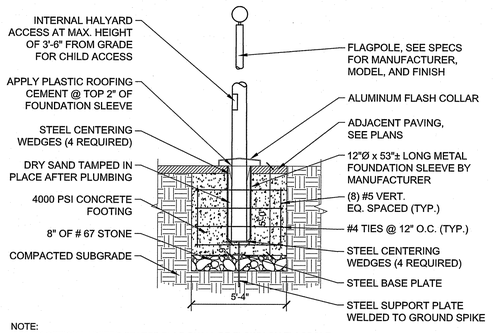
4 ORNAMENTAL BOLLARD
1/2" = 1'-0"

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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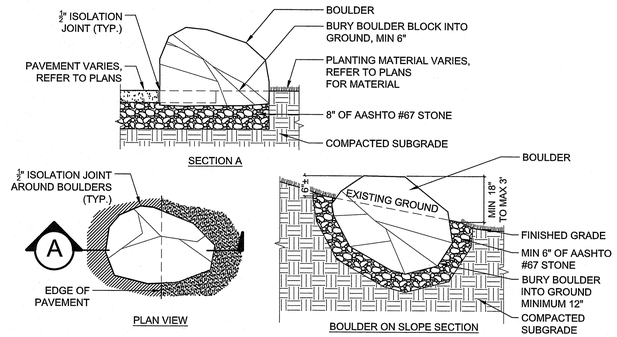
NOTES:
- ALL ALUMINUM CONSTRUCTION
- 1/2" PRE-DRILLED COUNTERSUNK HOLES FOR SURFACE MOUNTING
- STAINLESS STEEL FLAT HEAD DROP-IN ANCHORS

5 BIKE RACK
1/2" = 1'-0"



NOTE:
A 8'x12' OFFICIAL UNITED STATES FLAG SHALL BE FLOWN ON FLAGPOLE.

6 30' FLAG POLE
1/4" = 1'-0"



NOTES:
1. BOULDER LOCATIONS SHALL BE FIELD VERIFIED BY LANDSCAPE ARCHITECT PRIOR TO FINAL INSTALLATION.
2. SEE SPECIFICATIONS FOR BOULDER TYPE, COLOR, JOINT MATERIAL, ETC.

7 BOULDER PLACEMENT
1/2" = 1'-0"

P-EDU-EPM-04

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EDWARD R. MARTIN MIDDLE SCHOOL
EAST PROVIDENCE, RHODE ISLAND

AI3 ARCHITECTS

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 33-07 & 33-15

SEP 13 2024

REGISTERED PROFESSIONAL ARCHITECT
RUSSELL BRAGNER
No. 428

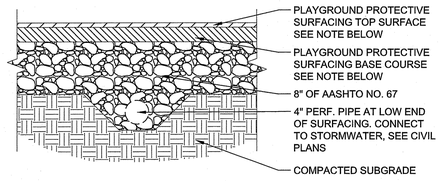
REVISIONS:

PROJECT NO.:	K1036
DATE:	SEPTEMBER 12, 2024
SCALE:	AS INDICATED
DESIGNED BY:	SD/YF/EL
CHECKED BY:	AE/SD/KB
DRAWN BY:	SD/YF/EL
APPROVED BY:	KB

DRAWING TITLE:
SITE DETAILS

DRAWING NO.:
L3.03

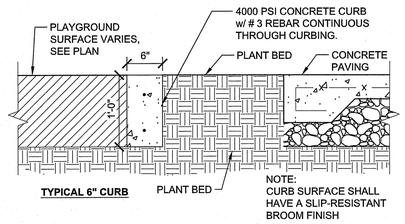
SHEET NO. 40 OF 47



NOTE:
WITHIN SAFETY ZONES, THICKNESS IN POURED IN PLACE SURFACING MUST MEET OR EXCEED A HEAD INJURY CRITERION (HIC) VALUE OF 800 FOR THE HIGHEST CRITICAL HEIGHT ON EQUIPMENT INDICATED IN SPEC 11 68 13

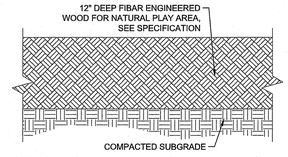
1 PLAYGROUND PROTECTIVE SURFACING

1" = 1'-0" P-EDU-EPM-07



2 PLAYGROUND EDGE- CURB

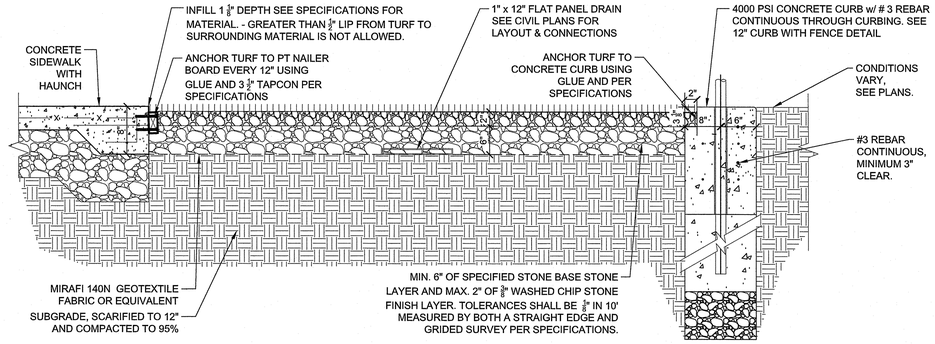
1" = 1'-0"



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3 FIBAR MULCH

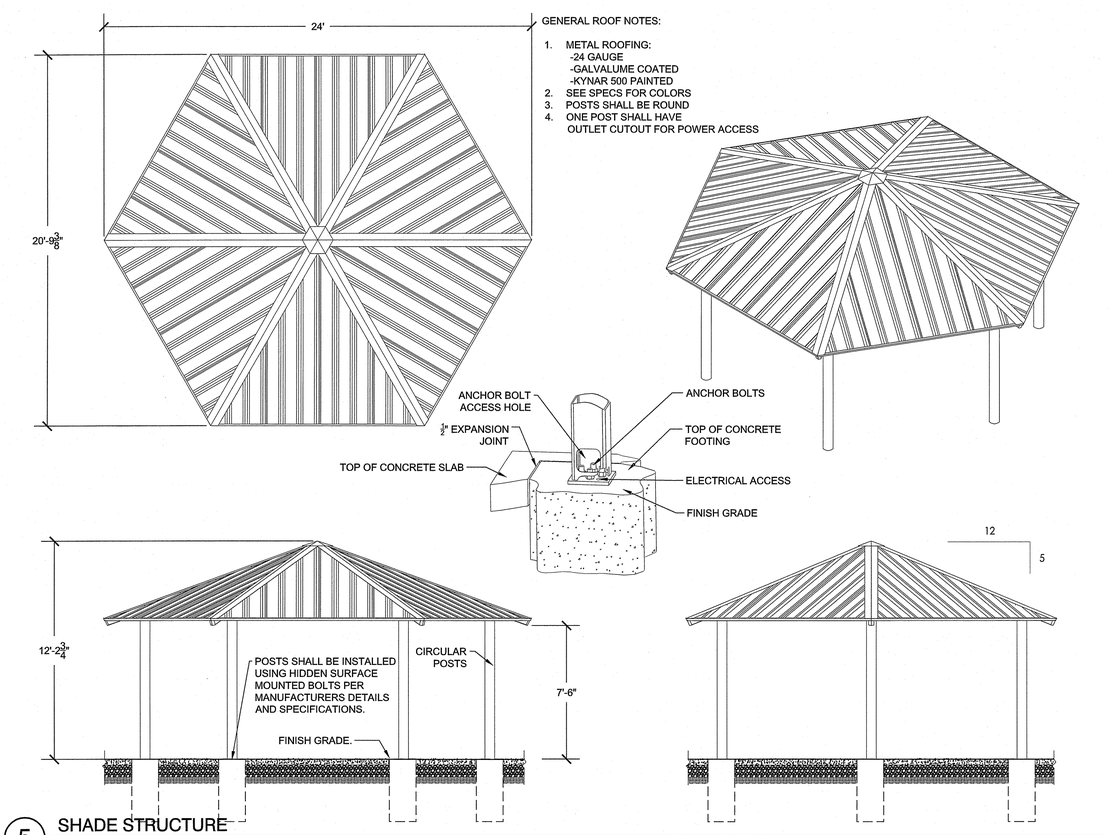
1" = 1'-0"



NOTE:
1. ALL STONE UNDER SYNTHETIC SHALL BE WASHED CLEAN AND FREE OF SEDIMENTS.
2. CONTRACTOR SHALL PROVIDE STONE SAMPLES FOR LANDSCAPE ARCHITECTS REVIEW AND APPROVAL PRIOR TO STONE BASE INSTALLATION.

4 SYNTHETIC TURF SYSTEM FOR PLAYGROUNDS

1" = 1'-0" P-EDU-EPM-282



5 SHADE STRUCTURE

1/4" = 1'-0"

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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EDWARD R. MARTIN MIDDLE SCHOOL
EAST PROVIDENCE, RHODE ISLAND

AI3 ARCHITECTS

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 3307 & 3315

SEP 12 2024

REGISTERED LANDSCAPE ARCHITECT
KEVIN MAXWELL BRUDNER
No. 426
RHODE ISLAND

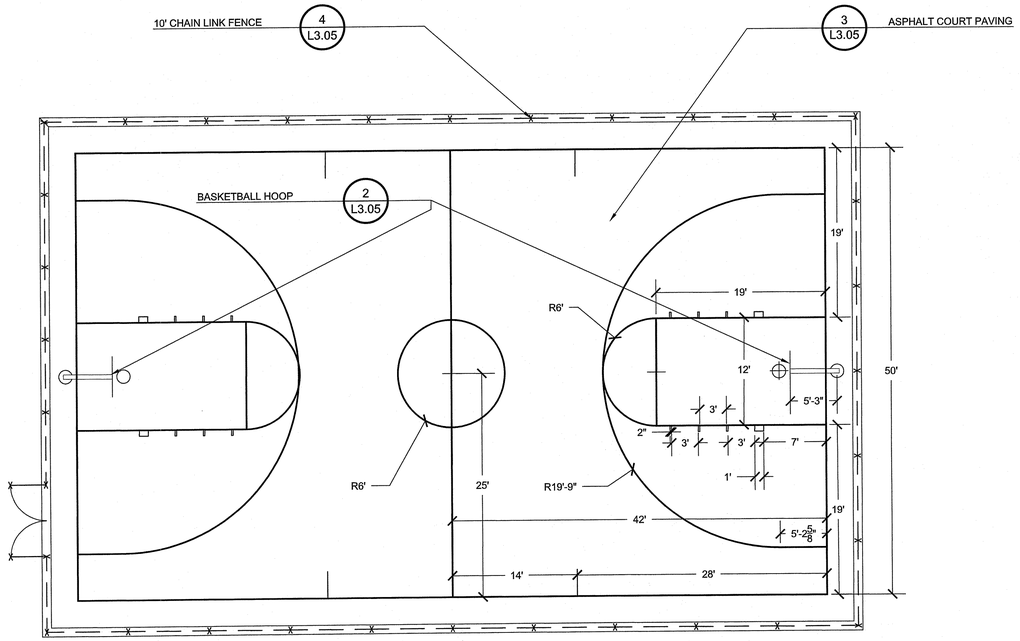
REVISIONS:

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APPROVED BY:	KB

DRAWING TITLE:
SITE DETAILS

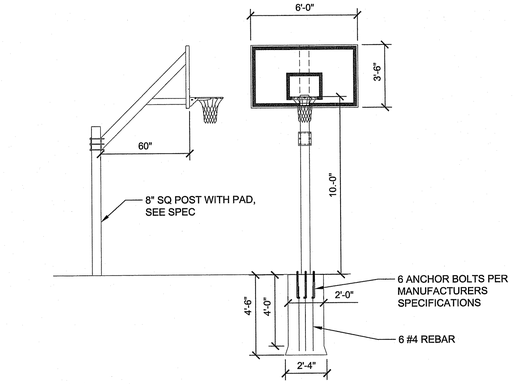
DRAWING NO.:
L3.04

SHEET NO. 41 OF 47

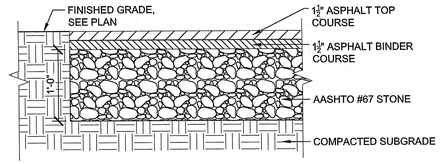


NOTES:
1. ALL LINES UNLESS OTHERWISE NOTED SHALL BE 2" PAINTED WHITE LINES
2. BASKETBALL HOOP FOOTING LOCATION SHOWN IS BASED ON PREFERRED HOOP MODEL PER SPECIFICATIONS. HOOP FOOTING LOCATION MAY CHANGE BASED ON SELECTED MODEL.
3. BASKETBALL HOOP BACKBOARD MUST REMAIN 4' FROM BASELINE.

1 BASKETBALL COURT LAYOUT
1/8" = 1'-0"

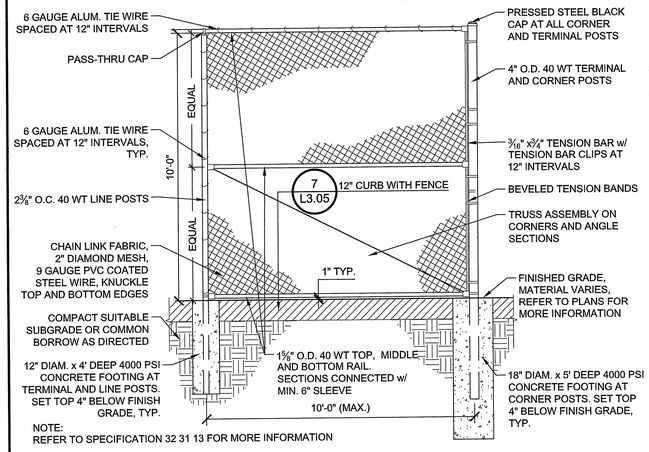


2 BASKETBALL HOOP
1/4" = 1'-0"

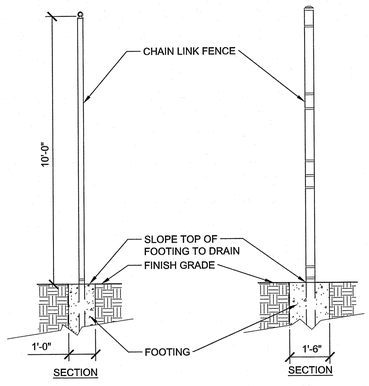


NOTE:
SEE SPECIFICATIONS FOR TOLERANCES AND TECHNICAL INFORMATION.

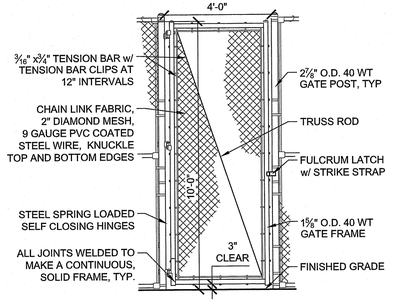
3 ASPHALT COURT PAVING
1" = 1'-0"



NOTE:
REFER TO SPECIFICATION 32 31 13 FOR MORE INFORMATION

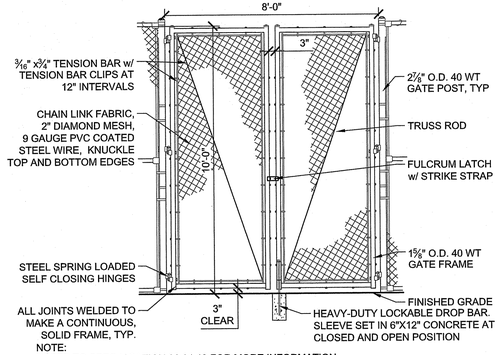


4 10' CHAIN LINK FENCE
3/8" = 1'-0"



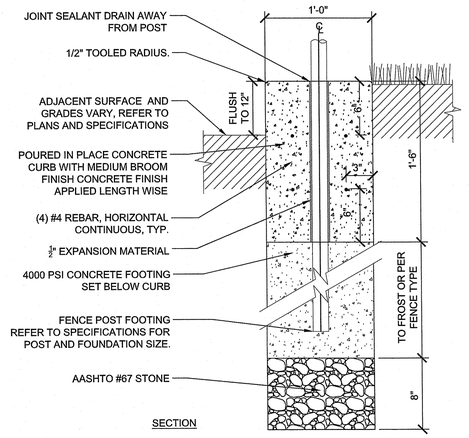
NOTE:
REFER TO SPECIFICATION 32 31 13 FOR MORE INFORMATION

5 10' CHAIN LINK, 4' WIDE SINGLE GATE
3/8" = 1'-0"



NOTE:
REFER TO SPECIFICATION 32 31 13 FOR MORE INFORMATION

6 10' CHAIN LINK, 8' WIDE DOUBLE GATE
3/8" = 1'-0"



NOTES:
1. FULL FOOTING SIZE FOR ALL FENCE POST SHALL BE INSTALLED BELOW ANY EDGEBAND OR CURB

7 12" CURB WITH FENCE
1 1/2" = 1'-0"

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: JAN 02 2025 FILE #: 23-0151
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
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SEP 13 2024

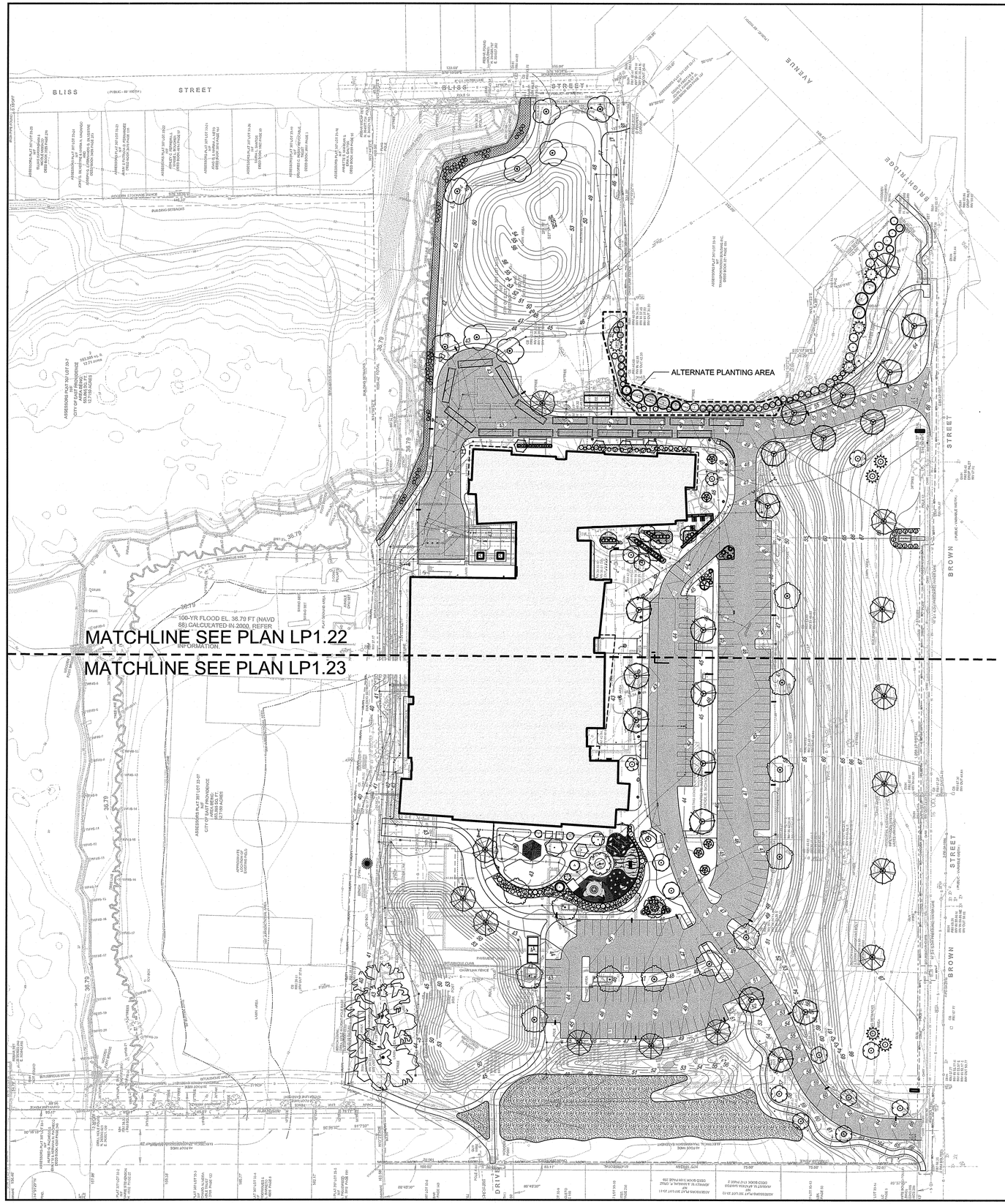
REVISIONS:

PROJECT NO.:	K1036
DATE:	SEPTEMBER 12, 2024
SCALE:	AS INDICATED
DESIGNED BY:	SD/YF/EL
CHECKED BY:	AE/SD/KB
DRAWN BY:	SD/YF/EL
APPROVED BY:	KB

DRAWING TITLE:
SITE DETAILS

DRAWING NO.:
L3.05

SHEET NO. 42 OF 47



PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME	CONT	CAL	SIZE
TREES					
	AC	Abies concolor / White Fir	B&B		6`-7` H
	AG	Acer griseum / Paperbark Maple	Multi-stem B&B		6`-7` H
	ARO	Acer rubrum 'October Glory' / October Glory Red Maple	B&B	2.5-3" Cal.	
	AFJ	Acer x freemanii 'Jeffersred' / Autumn Blaze Red Maple	B&B	2.5-3" Cal.	
	CJR	Cercidiphyllum japonicum 'Red Fox' / Red Fox Katsura Tree	B&B	2"-2.5" Cal.	
	GPS	Ginkgo biloba 'Princeton Sentry' / Princeton Sentry Maidenhair Tree	B&B	2.5"-3"	
	GTH	Gleditsia triacanthos inermis 'Halka' / Halka Honey Locust	B&B	2.5-3" Cal.	
	HM	Heptacodium miconioides / Seven Son Flower	10 gal		5`-6` H
	JVE	Juniperus virginiana 'Corcorcor' / Emerald Sentinel™ Eastern Redcedar	B&B		6`-7` H
	JVI	Juniperus virginiana 'Idyllwild' / Idyllwild Eastern Redcedar	B&B		7`-8` H
	JVM	Juniperus virginiana 'Manhattan Blue' / Manhattan Blue Eastern Redcedar	B&B		6`-7` H
	MGX	Magnolia x 'Galaxy' / Galaxy Magnolia	B&B	2"-2.5" Cal.	
	MG	Metasequoia glyptostroboides / Dawn Redwood	B&B		8`-10`
	NSW	Nyssa sylvatica 'Wildfire' / Wildfire Tupelo	B&B	2"-2.5" Cal.	
	OA	Oxydendrum arboreum / Sourwood Tree	B&B		6`-7` H
	PO	Picea omorika / Serbian Spruce	B&B		7`-8` H
	PPG	Pinus parviflora 'Glauca' / Japanese White Pine	B&B		5`-6` H
	PSA	Prunus subhirtella 'Autumnalis' / Autumn Flowering Cherry	B&B	2.5-3" Cal.	
	TOH	Thuja occidentalis 'Hetz Wintergreen' / Hetz Wintergreen Arborvitae	B&B		5`-6` H
	TOT	Thuja occidentalis 'Techny' / Techny Arborvitae	B&B		5`-6` H
	TPG	Thuja plicata 'Green Giant' / Green Giant Western Red Cedar	B&B		6`-7` H
	TPS	Thuja plicata 'Steeplechase' / Steeplechase Western Red Cedar	B&B		8`-10`
	UAP	Ulmus americana 'Princeton' / Princeton American Elm	B&B	2.5-3" Cal.	

SYMBOL	CODE	BOTANICAL / COMMON NAME	CONT	SIZE
SHRUBS				
	Chf	Cephalotaxus harringtonia 'Fastigiata' / Upright Plum Yew	5 gal	
	Cl	Clethra alnifolia 'Sixteen Candles' / Sixteen Candles Summersweet	#3	
	Cs	Cornus sericea `Artic Fire` / Artic Fire Dogwood	#3	
	HV	Hamamelis vernalis / Ozark Witchhazel	B & B	4`-5` H
	HD	Hamamelis x 'Diane' / Diane Witchhazel	B & B	4`-5` H
	Hpq	Hydrangea paniculata 'SMHPLQF' / Little Quick Fire® Panicle Hydrangea	3 gal	
	Igs	Ilex glabra 'Shamrock' / Shamrock Inkberry Holly	#5	
	Ivr	Ilex verticillata 'Red Sprite' / Red Sprite Winterberry	#5	
	Ivm	Itea virginica `Merlot` / Merlot Sweetspire	#3	
	Jh	Juniperus horizontalis 'Youngstown' / Youngstown Creeping Juniper	3 gal	
	Mdp	Microbiota decussata 'Prides' / Celtic Pride® Siberian Carpet Cypress	#3	
	Pos	Physocarpus opulifolius 'Seward' / Summer Wine® Ninebark	#3	
	Rpj	Rhododendron x 'P.J.M. Elite' / P.J.M. Elite Rhododendron	5 gal	
	Vc	Vaccinium corymbosum / Highbush Blueberry	3 gal	

SYMBOL	CODE	BOTANICAL / COMMON NAME	CONT	SPACING
GROUND COVERS				
	Gp	Gaultheria procumbens / Wintergreen	1 gal	24" o.c.
PERENNIALS/GRASSES				
	Rfg	Rudbeckia fulgida sullivantii 'Goldsturm' / Goldsturm Coneflower	1 gal	48" o.c.
	Snc	Salvia nemorosa 'Caradonna' / Cardonna Meadow Sage	1 gal	48" o.c.
	Sa	Sesleria autumnalis / Autumn Moor Grass	1 gal	48" o.c.
SEED MIXES				
	Rs	- - / RESTORATION SEED MIX	seed	
	Ws	- - / WILDFLOWER SEED MIX	seed	

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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0 60 120 180 240 feet
1" = 60'

N

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EDWARD R. MARTIN MIDDLE SCHOOL
EAST PROVIDENCE, RHODE ISLAND

AI3 ARCHITECTS

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 33-07 & 33-15

SEP 12 2024

REGISTERED LANDSCAPE ARCHITECT
KATHERINE MITCHELL GARDNER
No. 428
LANDSCAPE ARCHITECT

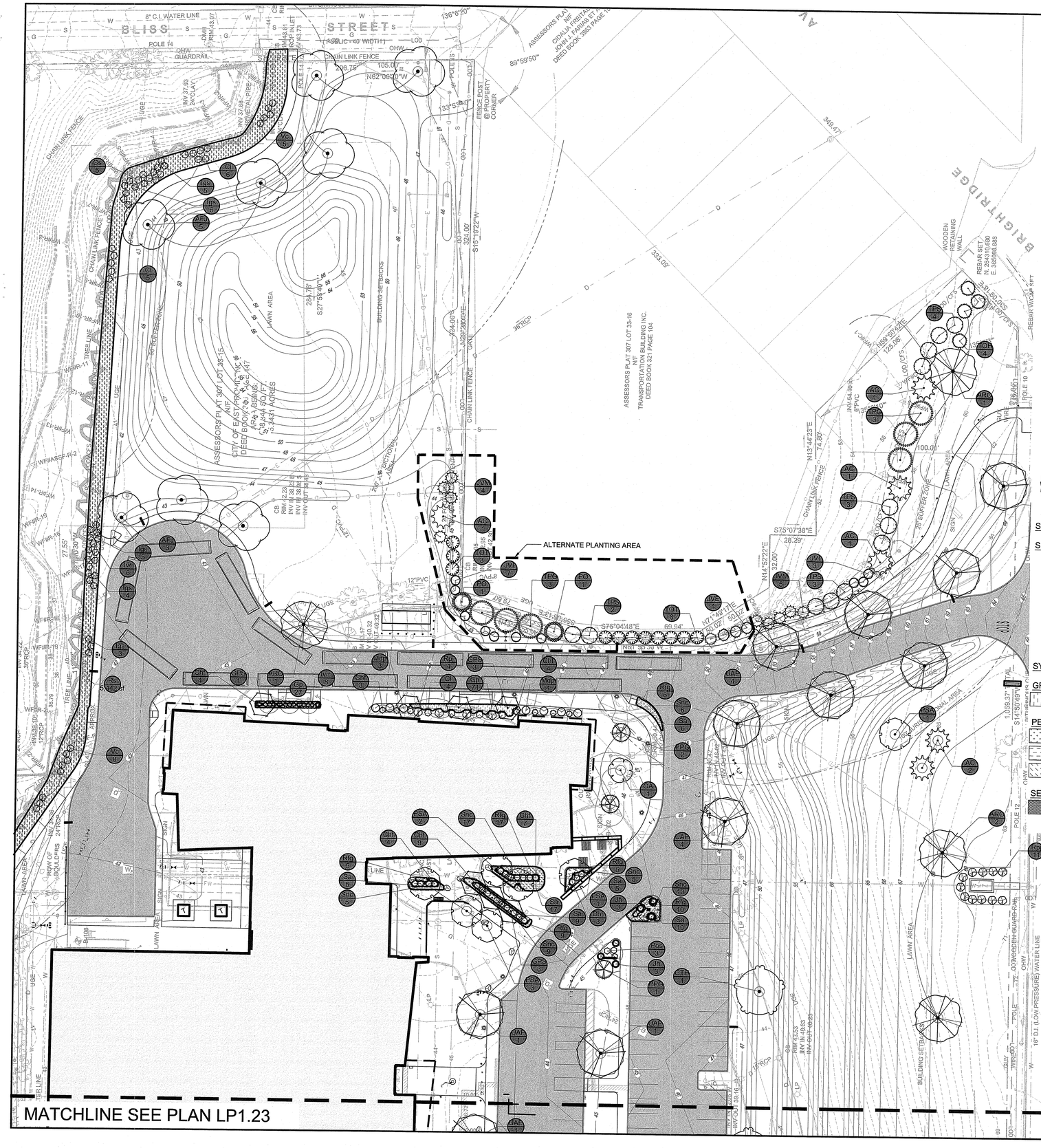
REVISIONS:

PROJECT NO.:	K1036
DATE:	SEPTEMBER 12, 2024
SCALE:	AS INDICATED
DESIGNED BY:	SD/YF/EL
CHECKED BY:	AE/SD/KB
DRAWN BY:	SD/YF/EL
APPROVED BY:	KB

DRAWING TITLE:
OVERALL LANDSCAPE PLAN

DRAWING NO.:
LP1.21

SHEET NO. 43 OF 47



PLANT SCHEDULE LP1.22

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL	SIZE
TREES						
	AC	5	Abies concolor / White Fir	B&B		6`-7` H
	ARO	4	Acer rubrum 'October Glory' / October Glory Red Maple	B&B	2.5-3" Cal.	
	AFJ	8	Acer x freemanii 'Jeffersred' / Autumn Blaze Red Maple	B&B	2.5-3" Cal.	
	GPS	7	Ginkgo biloba 'Princeton Sentry' / Princeton Sentry Maidenhair Tree	B&B	2.5"-3"	
	GTH	1	Gleditsia triacanthos inermis 'Halka' / Halka Honey Locust	B&B	2.5-3" Cal.	
	JVI	3	Juniperus virginiana 'Idyllwild' / Idyllwild Eastern Redcedar	B&B		7`-8` H
	JVM	5	Juniperus virginiana 'Manhattan Blue' / Manhattan Blue Eastern Redcedar	B&B		6`-7` H
	OA	2	Oxydendrum arboreum / Sourwood Tree	B&B		6`-7` H
	PPG	3	Pinus parviflora 'Glauca' / Japanese White Pine	B&B		5`-6` H
	PSA	7	Prunus subhirtella 'Autumnalis' / Autumn Flowering Cherry	B&B	2.5-3" Cal.	
	TOH	4	Thuja occidentalis 'Hetz Wintergreen' / Hetz Wintergreen Arborvitae	B&B		5`-6` H
	TPG	3	Thuja plicata 'Green Giant' / Green Giant Western Red Cedar	B&B		6`-7` H
	TPS	10	Thuja plicata 'Steeplechase' / Steeplechase Western Red Cedar	B&B		8`-10`
	UAP	10	Ulmus americana 'Princeton' / Princeton American Elm	B&B	2.5-3" Cal.	

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONT	SIZE
SHRUBS					
	Chf	34	Cephalotaxus harringtonia 'Fastigiata' / Upright Plum Yew	5 gal	
	Cl	15	Clethra alnifolia 'Sixteen Candles' / Sixteen Candles Summersweet	#3	
	Cs	5	Cornus sericea `Artic Fire` / Artic Fire Dogwood	#3	
	Igs	23	Ilex glabra 'Shamrock' / Shamrock Inkberry Holly	#5	
	Ivr	6	Ilex verticillata 'Red Sprite' / Red Sprite Winterberry	#5	
	Ivm	8	Itea virginica `Merlot` / Merlot Sweetspire	#3	
	Jh	6	Juniperus horizontalis 'Youngstown' / Youngstown Creeping Juniper	3 gal	
	Mdp	7	Microbiota decussata 'Prides' / Celtic Pride® Siberian Carpet Cypress	#3	
	Pos	3	Physocarpus opulifolius 'Seward' / Summer Wine® Ninebark	#3	
	Rpj	15	Rhododendron x 'P.J.M. Elite' / P.J.M. Elite Rhododendron	5 gal	
	Vc	13	Vaccinium corymbosum / Highbush Blueberry	3 gal	

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONT	SPACING
GROUND COVERS					
	Gp	98	Gaultheria procumbens / Wintergreen	1 gal	24" o.c.
PERENNIALS/GRASSES					
	Rfg	52	Rudbeckia fulgida sullivantii 'Goldsturm' / Goldsturm Coneflower	1 gal	48" o.c.
	Snc	52	Salvia nemorosa 'Caradonna' / Cardonna Meadow Sage	1 gal	48" o.c.
	Sa	52	Sesleria autumnalis / Autumn Moor Grass	1 gal	48" o.c.
SEED MIXES					
	Rs	5,442 sf	- - / RESTORATION SEED MIX		

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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PLANT SCHEDULE ALTERNATE

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONT	SIZE
TREES					
	AC	1	Abies concolor / White Fir	B&B	6`-7` H
	JVE	4	Juniperus virginiana 'Corcorcor' / Emerald Sentinel™ Eastern Redcedar	B&B	6`-7` H
	JVI	7	Juniperus virginiana 'Idyllwild' / Idyllwild Eastern Redcedar	B&B	7`-8` H
	JVM	4	Juniperus virginiana 'Manhattan Blue' / Manhattan Blue Eastern Redcedar	B&B	6`-7` H
	PO	2	Picea omorika / Serbian Spruce	B&B	7`-8` H
	TOT	11	Thuja occidentalis 'Techny' / Techny Arborvitae	B&B	5`-6` H
	TPG	3	Thuja plicata 'Green Giant' / Green Giant Western Red Cedar	B&B	6`-7` H
	TPS	2	Thuja plicata 'Steeplechase' / Steeplechase Western Red Cedar	B&B	8`-10`

0 30 60 90 120 feet
1" = 30'

N

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EAST PROVIDENCE, RHODE ISLAND

AI3 ARCHITECTS

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 33-07 & 33-15

SEP 19 2024

REGISTERED LANDSCAPE ARCHITECT
KYLE MITCHELL BRADNER
No. 428

REVISIONS:

PROJECT NO.:	K1036
DATE:	SEPTEMBER 12, 2024
SCALE:	AS INDICATED
DESIGNED BY:	SD/YF/EL
CHECKED BY:	AE/SD/KB
DRAWN BY:	SD/YF/EL
APPROVED BY:	KB

DRAWING TITLE:
LANDSCAPE PLAN

DRAWING NO.:
LP1.22

SHEET NO. 44 OF 47

MATCHLINE SEE PLAN LP1.22

BEDLINE IN THIS AREA TO RECEIVE BLACK STEEL EDGING

PLANT SCHEDULE LP1.23

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL	SIZE
TREES						
	AC	2	Abies concolor / White Fir	B&B		6`-7` H
	AG	1	Acer griseum / Paperbark Maple	Multi-stem B&B		6`-7` H
	ARO	10	Acer rubrum 'October Glory' / October Glory Red Maple	B&B	2.5-3" Cal.	
	CJR	1	Cercidiphyllum japonicum 'Red Fox' / Red Fox Katsura Tree	B&B	2"-2.5" Cal.	
	GPS	1	Ginkgo biloba 'Princeton Sentry' / Princeton Sentry Maidenhair Tree	B&B	2.5"-3"	
	GTH	12	Gleditsia triacanthos inermis 'Halka' / Halka Honey Locust	B&B	2.5-3" Cal.	
	HM	1	Heptacodium miconioides / Seven Son Flower	10 gal		5`-6` H
	JVI	4	Juniperus virginiana 'Idyllwild' / Idyllwild Eastern Redcedar	B&B		7`-8` H
	MGX	2	Magnolia x 'Galaxy' / Galaxy Magnolia	B&B	2"-2.5" Cal.	
	MG	2	Metasequoia glyptostroboides / Dawn Redwood	B&B		8`-10`
	NSW	3	Nyssa sylvatica 'Wildfire' / Wildfire Tupelo	B&B	2"-2.5" Cal.	
	OA	2	Oxydendrum arboreum / Sourwood Tree	B&B		6`-7` H
	PO	1	Picea omorika / Serbian Spruce	B&B		7`-8` H
	PPG	3	Pinus parviflora 'Glauca' / Japanese White Pine	B&B		5`-6` H
	PSA	7	Prunus subhirtella 'Autumnalis' / Autumn Flowering Cherry	B&B	2.5-3" Cal.	
	UAP	8	Ulmus americana 'Princeton' / Princeton American Elm	B&B	2.5-3" Cal.	

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONT	SIZE
SHRUBS					
	Chf	13	Cephalotaxus harringtonia 'Fastigiata' / Upright Plum Yew	5 gal	
	Cs	17	Cornus sericea `Artic Fire` / Artic Fire Dogwood	#3	
	HV	2	Hamamelis vernalis / Ozark Witchhazel	B & B	4`-5` H
	HD	2	Hamamelis x 'Diane' / Diane Witchhazel	B & B	4`-5` H
	Hpq	7	Hydrangea paniculata 'SMHPLQF' / Little Quick Fire® Panicle Hydrangea	3 gal	
	Igs	12	Ilex glabra 'Shamrock' / Shamrock Inkberry Holly	#5	
	Ivm	21	Itea virginica `Merlot` / Merlot Sweetspire	#3	
	Jh	9	Juniperus horizontalis 'Youngstown' / Youngstown Creeping Juniper	3 gal	
	Pos	10	Physocarpus opulifolius 'Seward' / Summer Wine® Ninebark	#3	
	Rpj	13	Rhododendron x 'P.J.M. Elite' / P.J.M. Elite Rhododendron	5 gal	

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONT	SPACING
PERENNIALS/GRASSES					
	Rfg	8	Rudbeckia fulgida sullivantii 'Goldsturm' / Goldsturm Coneflower	1 gal	48" o.c.
	Snc	8	Salvia nemorosa 'Caradonna' / Cardonna Meadow Sage	1 gal	48" o.c.
	Sa	8	Sesleria autumnalis / Autumn Moor Grass	1 gal	48" o.c.
SEED MIXES					
	Ws	20,860 sf	- - / WILDFLOWER SEED MIX	seed	

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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0 30 60 90 120 feet
1" = 30'

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AI3 ARCHITECTS

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Plat 307, Lots 3307 & 3315

SEP 19 2024

REGISTERED LANDSCAPE ARCHITECT MITCHELL BRUNER No. 428

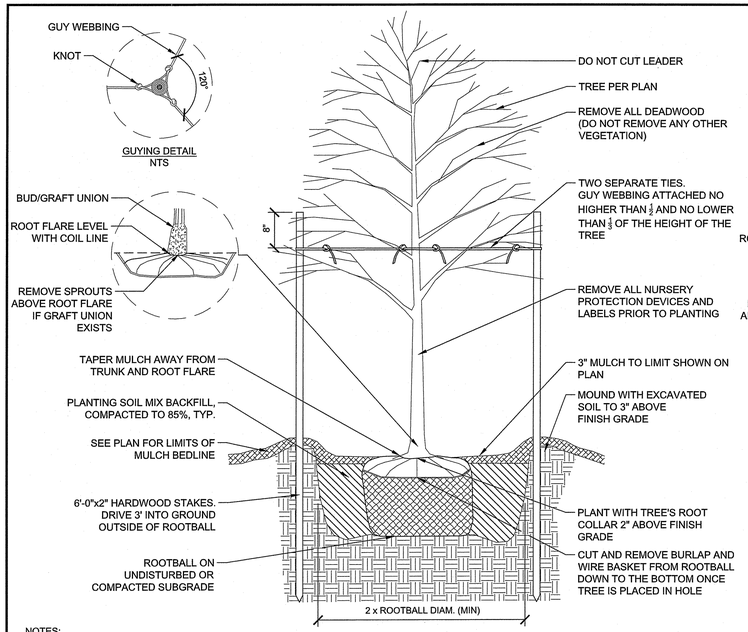
REVISIONS:

PROJECT NO.:	K1036
DATE:	SEPTEMBER 12, 2024
SCALE:	AS INDICATED
DESIGNED BY:	SD/YF/EL
CHECKED BY:	AE/SD/KB
DRAWN BY:	SD/YF/EL
APPROVED BY:	KB

DRAWING TITLE:
LANDSCAPE PLAN

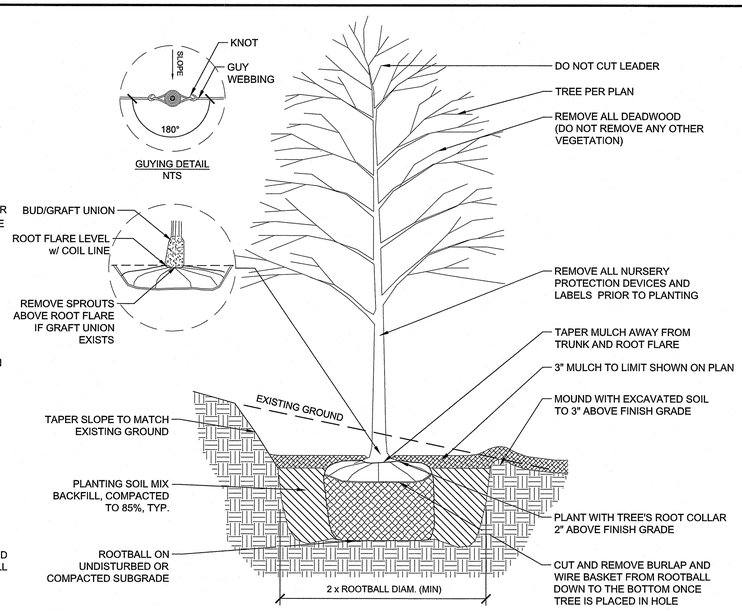
DRAWING NO.:
LP1.23

SHEET NO. 45 OF 47



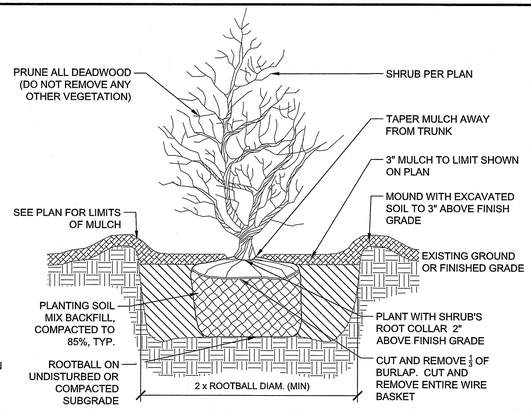
NOTES:
1. ALL TREES SHALL BE SET SO THAT THE ROOT FLARE IS ABOVE EXISTING GRADE. CONTRACTOR TO TAKE INTO ACCOUNT ANY SOIL SETTLING BELOW ROOT BALL.
2. AFTER THE GUARANTEE PERIOD THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL OF STAKES AND GUY WEBBING.
3. ALL TREES NOT LOCATED WITHIN A LARGER MULCHED 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"

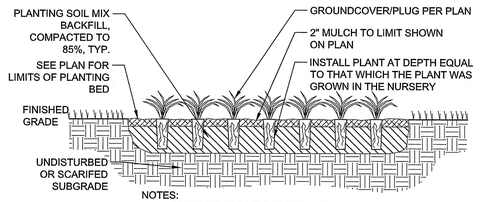


NOTES:
1. ALL TREES SHALL BE SET SO THAT THE ROOT FLARE IS ABOVE EXISTING GRADE. CONTRACTOR TO TAKE INTO ACCOUNT ANY SOIL SETTLING BELOW ROOT BALL.
2. SLOPE PLANTING STAKES SHALL BE PLACED PARALLEL TO SLOPE.
3. AFTER THE GUARANTEE PERIOD THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL OF STAKES AND 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"

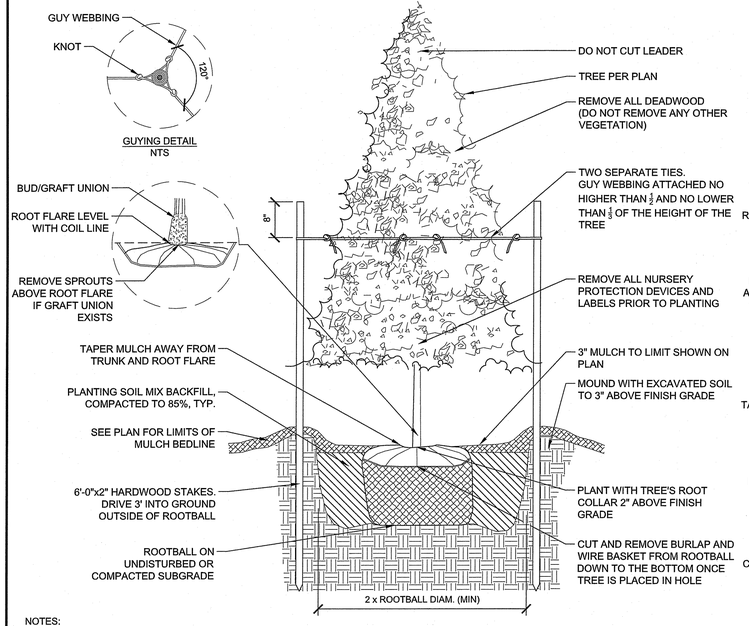


3 SHRUB PLANTING
1" = 1'-0"



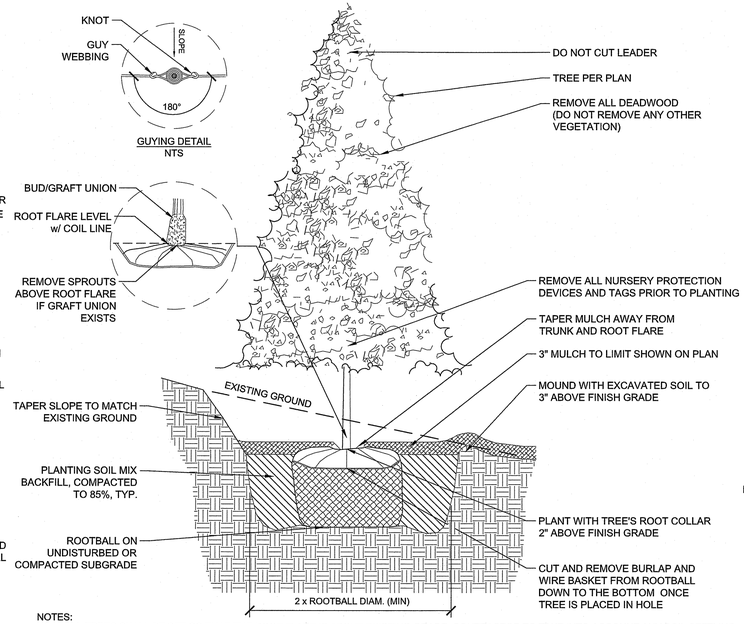
NOTES:
1. REFER TO SPECIFICATIONS AND DETAILS FOR SOIL DEPTHS.

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



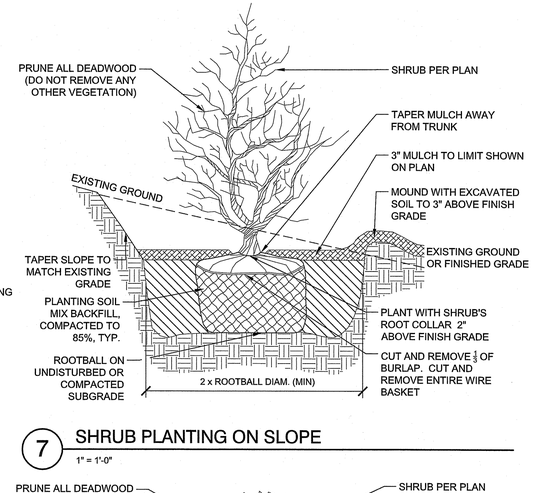
NOTES:
1. ALL TREES SHALL BE SET SO THAT THE ROOT FLARE IS ABOVE EXISTING GRADE. CONTRACTOR TO TAKE INTO ACCOUNT ANY SOIL SETTLING BELOW ROOT BALL.
2. AFTER THE GUARANTEE PERIOD THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL OF STAKES AND GUY WEBBING.
3. ALL TREES NOT LOCATED WITHIN A LARGER MULCHED 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.

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

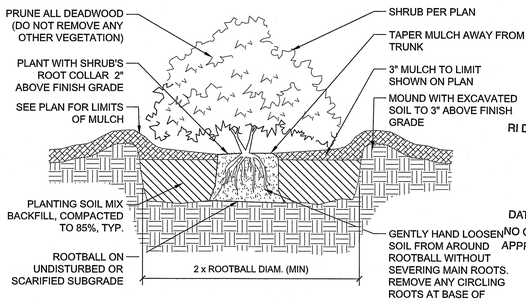


NOTES:
1. ALL TREES SHALL BE SET SO THAT THE ROOT FLARE IS ABOVE EXISTING GRADE. CONTRACTOR TO TAKE INTO ACCOUNT ANY SOIL SETTLING BELOW THE ROOT BALL
2. SLOPE PLANTING STAKES SHALL BE PLACED PARALLEL TO SLOPE.
3. AFTER THE GUARANTEE PERIOD THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL OF STAKES 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.

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



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



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

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: ~~JAN 07 2025~~ FILE #: 23-0151
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

TRAVERSE
landscape architects
150 Chestnut Street, 4th Floor
Providence, RI 02903
401-383-4950
www.traversela.com

AI3 ARCHITECTS

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 3307 & 3315

SEP 12 2024

REGISTERED LANDSCAPE ARCHITECT
KEITH MITCHELL BRUCKNER
No. 428

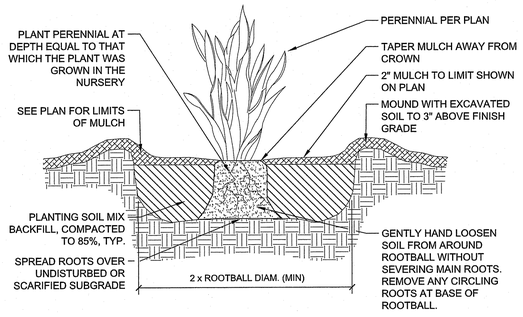
REVISIONS:

PROJECT NO.:	K1036
DATE:	SEPTEMBER 12, 2024
SCALE:	AS INDICATED
DESIGNED BY:	SD/YF/EL
CHECKED BY:	AE/SD/KB
DRAWN BY:	SD/YF/EL
APPROVED BY:	KB

DRAWING TITLE:
LANDSCAPE PLAN

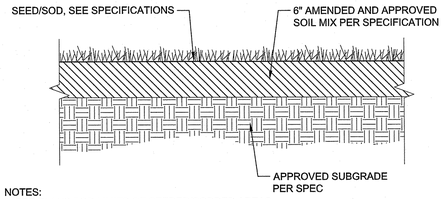
DRAWING NO.:
LP3.01

SHEET NO. 46 OF 47



1 GRASS OR PERENNIAL PLANTING

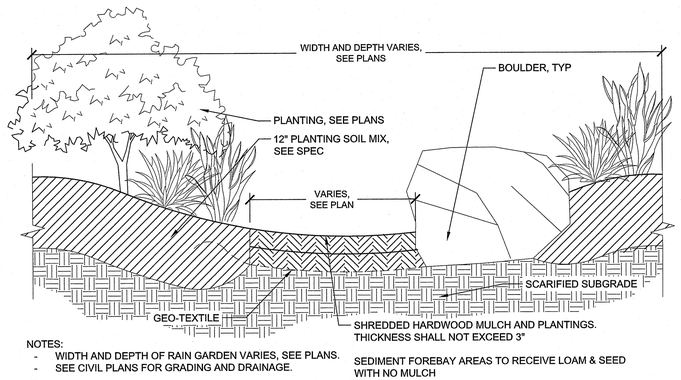
1" = 1'-0"



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.

2 LOAM & SEED

1" = 1'-0"

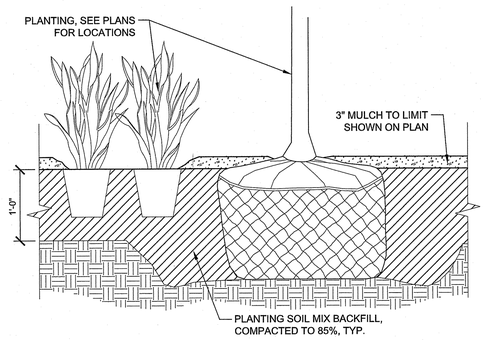


NOTES:
- WIDTH AND DEPTH OF RAIN GARDEN VARIES, SEE PLANS.
- SEE CIVIL PLANS FOR GRADING AND DRAINAGE.

SEDIMENT FOREBAY AREAS TO RECEIVE LOAM & SEED WITH NO MULCH

3 RAIN GARDEN-BIOSWALE PROFILE

1" = 1'-0"



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

4 SOIL PROFILE FOR PLANTING BEDS

1" = 1'-0"

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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TRAVERSE
landscape architects
150 Chestnut Street, 4th Floor
Providence, RI 02903
401-383-4950
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EDWARD R. MARTIN MIDDLE SCHOOL EAST PROVIDENCE, RHODE ISLAND

Ai3 ARCHITECTS

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 3307 & 3315

SEP 12 2024

REGISTERED LANDSCAPE ARCHITECT
KIM MITCHELL BRUDNER
No. 429

REVISIONS:

PROJECT NO.:	K1036
DATE:	SEPTEMBER 12, 2024
SCALE:	AS INDICATED
DESIGNED BY:	SD/YF/EL
CHECKED BY:	AE/SD/KB
DRAWN BY:	SD/YF/EL
APPROVED BY:	KB

DRAWING TITLE:
PLANTING DETAILS

DRAWING NO.:
LP3.02

SHEET NO. 47 OF 47

RI Environmental Management
NOV 28 2023
Office of Water Resources

Edward R. Martin Middle School

AP 307, Lots 33-07 & 33-15

111 Brown Street
East Providence, Rhode Island

OWNER:

CITY OF EAST PROVIDENCE
SCHOOL DEPARTMENT
145 TAUNTON AVENUE
EAST PROVIDENCE, RI 02914

111 BROWN STREET
EAST PROVIDENCE, RI 02914

CIVIL ENGINEER:

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

ARCHITECT:

526 BOSTON POST ROAD
WAYLAND, MA 01778

LANDSCAPE ARCHITECT:

TRAVERSE
landscape architects
150 Chestnut Street, 4th Floor
Providence, RI 02903

OWNER PROJECT MANAGER:

Peregrine Group LLC
20 Newman Avenue, Suite 1005
Rumford, RI 02916



Scale : N.T.S.

INDEX OF DRAWINGS

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3	C1.2	LEGEND
4	C1.3	OVERALLL PLAN
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RIDEM FRESHWATER WETLAND PERMIT SUBMISSION
JUNE 30, 2023
REVISED SEPTEMBER 27, 2023
REVISED OCTOBER 26, 2023
REVISED NOVEMBER 27, 2023

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: DEC 28 2023 FILE #: 23-0151
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE

REFERENCE

1. PROJECT LOCATION: EDWARD R. MARTIN MIDDLE SCHOOL, 111 BROWN STREET, EAST PROVIDENCE, RI 02914. ASSESSOR'S MAP 307, BLOCK 33, LOT 015.
2. EXISTING CONDITIONS MAPPING TAKEN FROM PLAN ENTITLED "BOUNDARY SURVEY & EXISTING CONDITIONS PLAN FOR CITY OF EAST PROVIDENCE ASSESSORS PLAT 307 LOT 33 -7 145 TAUNTON AVENUE CITY OF EAST PROVIDENCE ASSESSORS PLAT 307 LOT 33-15 111 BROWN STREET" PREPARED BY PRINCIPE COMPANY, INC. DATED MAY 1, 2023
3. EXISTING CONDITIONS PLAN SUPPLEMENTED BY TOWN OF EAST PROVIDENCE GIS DATA, STATE LIDAR, AND LIMITED FIELD MEASUREMENTS TAKEN BY PARE CORPORATION ON JUNE 30, 2022.
4. WETLAND FLAGS IDENTIFYING WETLAND RESOURCE AREAS WERE PLACED BY PARE CORPORATION ON MARCH 17, 2023 AND MARCH 21, 2023 AND LOCATED BY PRINCIPE COMPANY, INC.
5. 100-YR FLOOD ELEVATION SHOWN IS BASED ON THE FLOOD ELEVATION DETERMINED BY CAMP DRESSER & MCKEE INC. (CDM) AND REPORTED IN THE LETTER ENTITLED "CITY OF EAST PROVIDENCE, RHODE ISLAND ROSEGARDEN DRAINAGE ANALYSIS" PREPARED BY CDM DATED MARCH 1, 2000. THE 100-YR FLOOD ELEVATION HAS BEEN CONVERTED FROM NGVD 29 VERTICAL DATUM (EL. 37.61 FT) TO NAVD 88 VERTICAL DATUM (EL. 36.79). THE FLOOD ELEVATION IS BASED ON THE IMPACTS OF THE 100-YEAR, 24-HOUR STORM EVENT CALCULATED IN 2000.

GENERAL NOTES

1. PER AVAILABLE RIDEM MAPPING, THE PROJECT SITE IS LOCATED OUTSIDE 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. ALL NOTED UTILITIES TO BE REMOVED AND DISPOSED OF, RELOCATED OR CAPPED REPRESENT ALL KNOWN SITE CONDITIONS TO BE DEMOLISHED. THE CONTRACTOR SHALL COORDINATE ALL UNFORESEEN CONDITIONS WITH THE PROJECT ENGINEER, OWNER AND/OR RESPECTIVE UTILITY COMPANIES PRIOR TO PROCEEDING WITH WORK.
3. 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 CITY OF EAST PROVIDENCE SEWER DEPARTMENT.
11. ALL WATER LINE BENDS AND TEES SHALL BE REINFORCED WITH THRUST BLOCKS. ALL WATER DISTRIBUTION PIPING AND FITTINGS MUST ADHERE TO THE EAST PROVIDENCE WATER UTILITIES DIVISION 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 EAST PROVIDENCE WATER UTILITIES DIVISION 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 SEDIMENTATION CONTROL NOTES - RHODE ISLAND

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.

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 CITY OF EAST PROVIDENCE. 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.

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.

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.

PARKING SUMMARY			
	REQUIRED	EXISTING	PROPOSED
STANDARD SPACES (9'x18')	133	137	166
ACCESSIBLE SPACES *	6	6	10
TOTAL SPACES	139	143	176

* ADA REQUIREMENT FOR PARKING LOT 151 TO 200 TOTAL SPACES = 6 ADA SPACES
1. MIDDLE SCHOOL (78) + PRE-K USES (61) = 139
   1.1. TWO SPACES PER CLASSROOM (2*24) + ONE SPACE PER NON-TEACHER STAFF MEMBER (30) = 78 SPACES
   1.2. ONE SPACE FOR EACH FIVE PERSONS OF THE FACILITY'S LICENSED CAPACITY (288/5) + 3 SPACES FOR LOADING = 61 SPACES

ZONING TABLE			
ZONE: OPEN SPACE 1 (O1) USE: SCHOOL			
	REQUIRED*	EXISTING	PROPOSED
MINIMUM LOT SIZE	100,00 SF	668,344 SF	668,344 SF
MINIMUM FRONTAGE	40 LF	1059 LF	1059 LF
MAXIMUM LOT COVERAGE	10%	18%	13%
MAXIMUM BUILDING HEIGHT	35'	<35'	>35'
FRONT SETBACK	50'	190'	260'
SIDE SETBACK	50'	244'	385'
REAR SETBACK	50'	34'	24'
MAXIMUM IMPERVIOUS AREA	30%	42%	42%

* THE TOWN OF EAST PROVIDENCE IS EXEMPT FROM ZONING REQUIREMENTS. REQUIREMENTS DEPICTED ARE FOR THE CORRESPONDING ZONE.

Environmental Management
NOV 28 2023
Office of Water Resources

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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DATED: DEC 28 2023 FILE #: 23-0151
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE

PARE

Ai3 ARCHITECTS

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 33-07 & 33-15

DAVID L. POTTER
No. 8665
07.27.23
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:

1	09/27/23	RIDEM RTC

PROJECT NO.:	22037.05
DATE:	JUNE 30, 2023
SCALE:	NTS
DESIGNED BY:	NC/CH
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SHEET NO. 2 OF ~~21~~ 26

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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
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
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
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
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 STANDARD DETAILS

2.1.0	= CONCRETE HEADWALLS FOR PIPE CULVERTS - R.I. STD. 2.1.0
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
7.2.4	= PRECAST CONCRETE CAR STOPS - R.I. STD. 7.2.4
7.3.0	= GRANITE CURB - R.I. STD. 7.3.0
7.3.2	= 6'-0" GRANITE TRANSITION CURB - R.I. STD. 7.3.2
7.4.0	= GRANITE SLOPED FACE CURB - R.I. STD. 7.4.0
7.4.2	= GRANITE TRANSITION CURB (VERTICAL FACE TO SLOPED FACE) - R.I. STD. 7.4.2
9.9.0	= CONSTRUCTION ACCESS - R.I. STD. 9.9.0
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
43.1.0M	= CEMENT CONCRETE SIDEWALK (MODIFIED) - R.I. STD. 43.1.0M
43.3.0	= WHEELCHAIR RAMP - R.I. STD. 43.3.0
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

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

LEGEND

EXISTING		PROPOSED
	PROPERTY LINE	
	SETBACKS	
	EASEMENT LINE	
255	CONTOUR	262
X 407.5	SPOT ELEVATION	X 261.5
D	DRAINAGE LINE	D
W	WATER LINE	W
	FIRE WATER LINE	FW
S	SANITARY SEWER LINE	S
G	GAS LINE	G
E	ELECTRIC	E
T	TELECOMMUNICATIONS LINE	T
OHW	OVERHEAD ELECTRIC LINE	OHW
	LIMIT OF DISTURBANCE	LOD
	LIMIT OF DISTURBANCE/COMPOST FILTER SOCK	LOD/CFS
	CATCH BASIN	
	HYDRANT	
	DRAINAGE MANHOLE	
	SEWER MANHOLE	
	UTILITY POLE	
WV	WATER VALVE	
GG	GAS GATE	
	LIGHT POLE	
	TREE LINE	
	STONE WALL	
	CHAIN LINK FENCE	
	WIRE FENCE	
	WOOD FENCE	
	FENCE	
	CURBING	
	EDGE OF PAVEMENT	
	SAWCUT LINE	
	SIGN	
	COMPOST FILTER SOCK	
	SAND BAGS	
#	NO. OF PARKING SPACES	#
WF A52	WETLAND EDGE	WF A51
	WETLAND JURISDICTIONAL AREA	
	WETLAND BUFFER ZONE	
	FLOOD PLAIN	

Environmental Management
NOV 28 2023
Office of Water Resources

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OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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SPECIFIED IN THE LETTER OF APPROVAL
DATED: DEC 28 2023 FILE #: 23-0157
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE

PARE

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 3307 & 3315

DAVID L. POTTER
No. 8665
04.27.23
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:

1	09/27/23	RIDEM RTC

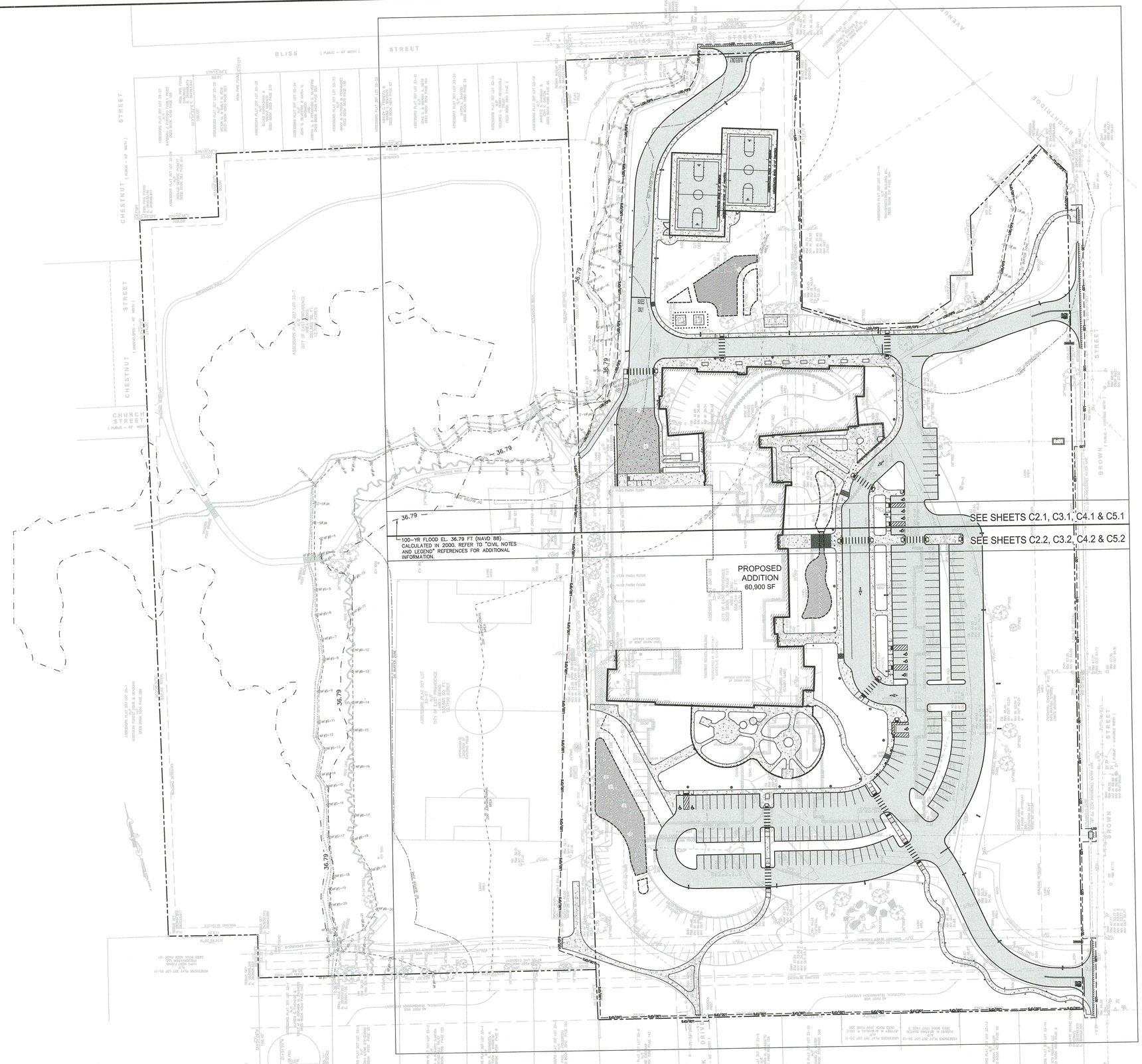
PROJECT NO.:	22037.05
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SHEET NO. 3 OF ~~21~~ 26

Y:\JOBS\22\ active\22037.05 EP Schools--Martin Middle Site Design--80\DWGS\Notes & Legend.dwg



PARE

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Edward R. Martin Middle School
111 Brown Street
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NOV 28 2023
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1	09/27/23	RIDEM RTC

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DRAWING TITLE:
Overalll Plan

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C1.3

SHEET NO. 4 OF ~~24~~ 21

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NOTES:

1. UTILITY SERVICE TO THE FACILITY SHALL NOT BE INTERRUPTED DUE TO UTILITY WORK SHOWN HEREON. ALL UTILITIES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
3. 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.
4. 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.
5. ALL TEMPORARILY CUT UTILITIES SHALL BE PROTECTED FROM SEDIMENTATION UNTIL IT IS CONNECTED IN ITS POST-CONSTRUCTION POSITION.
6. REFER TO ELECTRICAL SITE PLAN FOR ALL ELECTRICAL AND TELECOMMUNICATIONS WORK, INCLUDING DEMOLITION.
7. REFER TO "NOTES AND LEGEND" FOR ADDITIONAL NOTES.

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

LEGEND:

- 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.

LEGEND

- TDS - TEMPORARY DIVERSION SWALE/BERM
- TST - TEMPORARY SEDIMENT TRAP
- TST LIMITS OF WET STORAGE AREA
- TST LIMITS OF DRY STORAGE AREA

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NOV 28 2023
Office of Water Resources

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: DEC 28 2023 FILE #: 23-0151
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

CONTRACTOR SHALL PLACE LOD AND CFS AT EDGE OF WOODED VEGETATION. THERE SHALL BE NO CUTTING OF WOODED VEGETATION.

100-YR FLOOD EL. 36.79 FT (NAVD 88) CALCULATED IN 2000. REFER TO "CIVIL NOTES AND LEGEND" REFERENCES FOR ADDITIONAL INFORMATION.

MATCHLINE - SEE SHEET C2.2

PARE

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 3307 & 3315

DAVID L. POTTER
No. 8665
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
09.27.23

REVISIONS:

1	09/27/23	RIDEM RTC

PROJECT NO.:	22037.05
DATE:	JUNE 30, 2023
SCALE:	1" = 30'
DESIGNED BY:	NC/CH
CHECKED BY:	NC/CH
DRAWN BY:	SETB
APPROVED BY:	DLP

DRAWING TITLE:
Demolition & Erosion Control Plan 1

DRAWING NO.:
C2.1

SHEET NO. 5 OF ~~26~~ 21

P:\22037.05 Schools-Martin, Middle Site Design-RI\DWG\Demolition & Erosion Control.dwg

100-YR FLOOD EL. 36.79 FT (NAVD 88) CALCULATED IN 2000. REFER TO "CIVIL NOTES AND LEGEND" REFERENCES FOR ADDITIONAL INFORMATION.

MATCHLINE - SEE SHEET C2.1

NOTES:

1. UTILITY SERVICE TO THE FACILITY SHALL NOT BE INTERRUPTED DUE TO UTILITY WORK SHOWN HEREON. ALL UTILITIES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
3. 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.
4. 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.
5. ALL TEMPORARILY CUT UTILITIES SHALL BE PROTECTED FROM SEDIMENTATION UNTIL IT IS CONNECTED IN ITS POST-CONSTRUCTION POSITION.
6. REFER TO ELECTRICAL SITE PLAN FOR ALL ELECTRICAL AND TELECOMMUNICATIONS WORK, INCLUDING DEMOLITION.
7. REFER TO "NOTES AND LEGEND" FOR ADDITIONAL NOTES.

LEGEND:

- REMOVE & DISPOSE TREE. DISPOSE OF TREE AND STUMP OFF-SITE.
- PROTECT EXISTING TREE TO REMAIN.
- TP — PRIOR TO COMMENCING WORK, CONTRACTOR SHALL EXCAVATE TEST PIT TO CONFIRM LOCATION, ELEVATION, AND SIZE OF UTILITY. PROVIDE INFORMATION TO ENGINEER.

LEGEND

- TDS - TEMPORARY DIVERSION SWALE/BERM
- TST - TEMPORARY SEDIMENT TRAP
- TST LIMITS OF WET STORAGE AREA
- TST LIMITS OF DRY STORAGE AREA

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

PARE

EDWARD R. MARTIN MIDDLE SCHOOL EAST PROVIDENCE, RHODE ISLAND

AI3 ARCHITECTS

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 33-07 & 33-15

DAVID L. POTTER
No. 8665
09.27.23
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:		
1	09/27/23	RIDEM RTC

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DRAWN BY:	SETB
APPROVED BY:	DLP

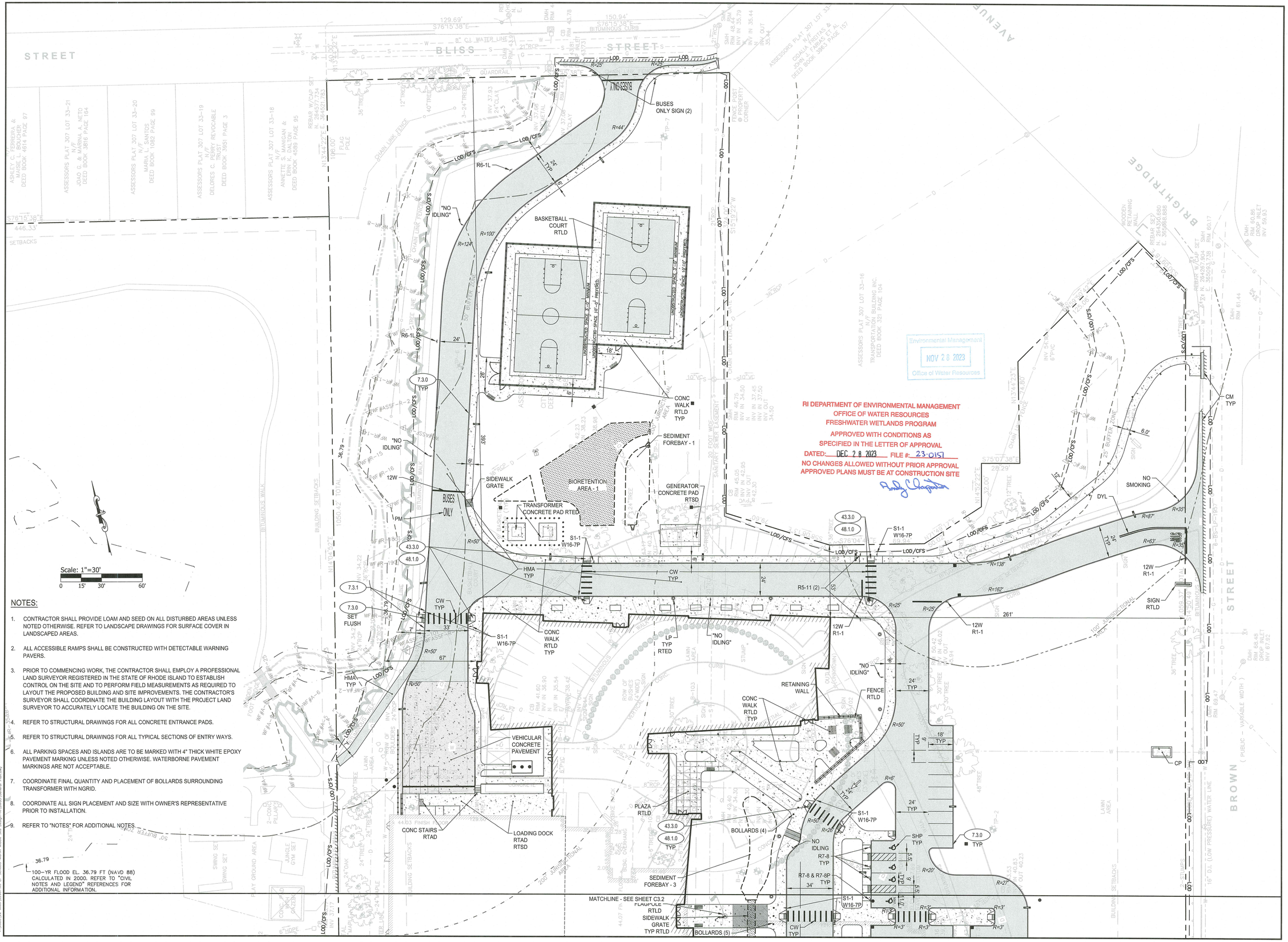
DRAWING TITLE:

Demolition & Erosion Control Plan 2

DRAWING NO.: C2.2

SHEET NO. 6 OF 24

K:\JOBS\22-Jobs\22037.05 GP Schools-Martin Middle Site Design-RI\DWGS\Demolition & Erosion Control.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. ALL ACCESSIBLE RAMPS SHALL BE CONSTRUCTED WITH DETECTABLE WARNING PAVERS.
3. 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.
4. REFER TO STRUCTURAL DRAWINGS FOR ALL CONCRETE ENTRANCE PADS.
5. REFER TO STRUCTURAL DRAWINGS FOR ALL TYPICAL SECTIONS OF ENTRY WAYS.
6. 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.
7. COORDINATE FINAL QUANTITY AND PLACEMENT OF BOLLARDS SURROUNDING TRANSFORMER WITH NGRID.
8. COORDINATE ALL SIGN PLACEMENT AND SIZE WITH OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
9. REFER TO "NOTES" FOR ADDITIONAL NOTES.

36.79
100-YR FLOOD EL. 36.79 FT (NAVD 88) CALCULATED IN 2000. REFER TO "CIVIL NOTES AND LEGEND" REFERENCES FOR ADDITIONAL INFORMATION.

PARE

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09.27.23
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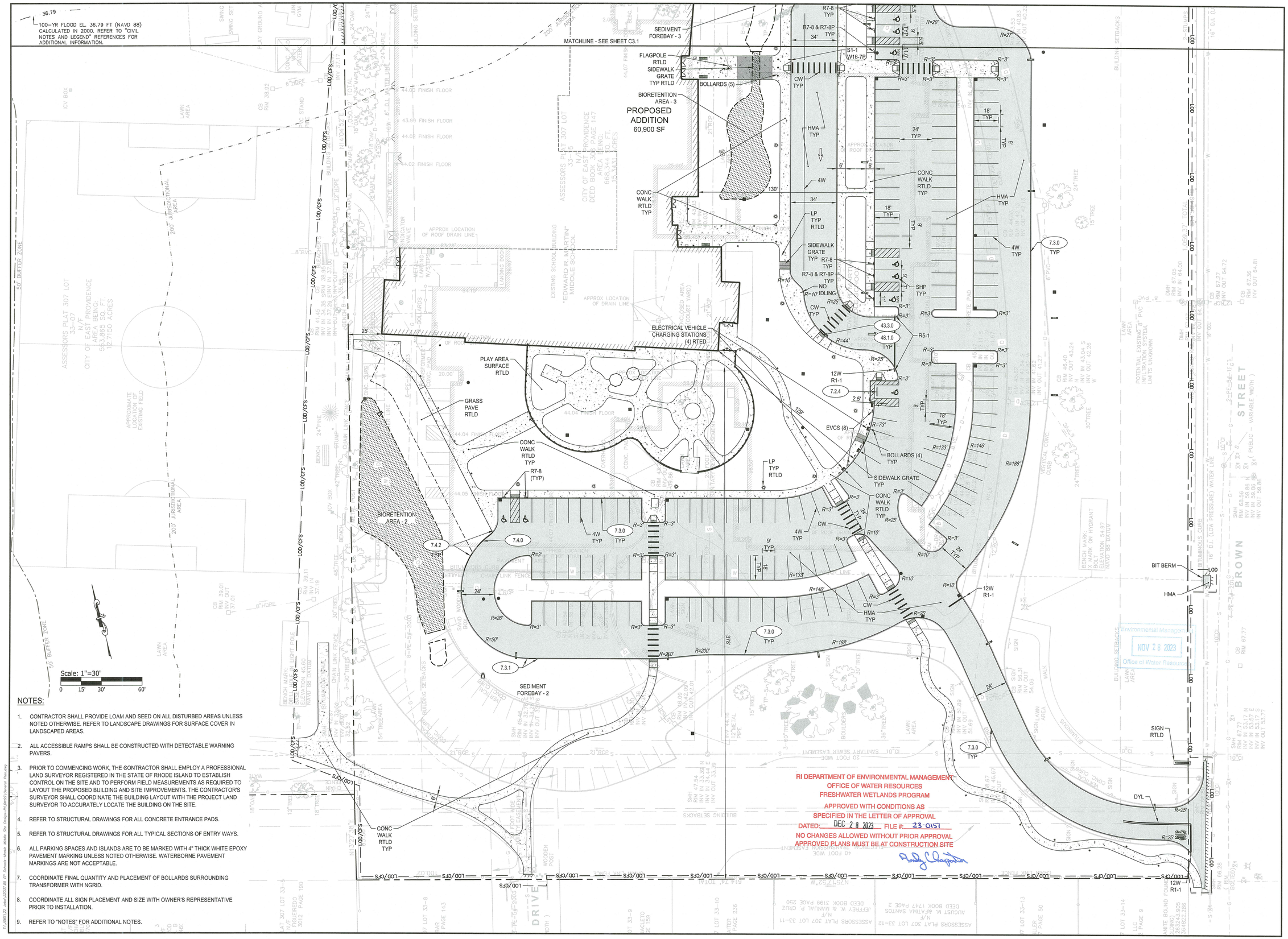
REVISIONS:		
1	09/27/23	RIDEM RTC

PROJECT NO.:	22037.05
DATE:	JUNE 30, 2023
SCALE:	1" = 30'
DESIGNED BY:	NC/CH
CHECKED BY:	NC/CH
DRAWN BY:	SETB
APPROVED BY:	DLP

DRAWING TITLE: General Plan 1

DRAWING NO.: C3.1

SHEET NO. 7 OF ~~24~~ 26



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. ALL ACCESSIBLE RAMPS SHALL BE CONSTRUCTED WITH DETECTABLE WARNING PAVERS.
3. 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.
4. REFER TO STRUCTURAL DRAWINGS FOR ALL CONCRETE ENTRANCE PADS.
5. REFER TO STRUCTURAL DRAWINGS FOR ALL TYPICAL SECTIONS OF ENTRY WAYS.
6. 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.
7. COORDINATE FINAL QUANTITY AND PLACEMENT OF BOLLARDS SURROUNDING TRANSFORMER WITH NGRID.
8. COORDINATE ALL SIGN PLACEMENT AND SIZE WITH OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
9. REFER TO "NOTES" FOR ADDITIONAL NOTES.

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DATED: DEC 28 2023 FILE #: 23-0157
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Environmental Management
NOV 28 2023
Office of Water Resources

PARE

EDWARD R. MARTIN MIDDLE SCHOOL EAST PROVIDENCE, RHODE ISLAND

AI3 ARCHITECTS

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 33-07 & 33-15

DAVID L. POTTER No. 8665 REGISTERED PROFESSIONAL ENGINEER (CIVIL) 09.27.23

REVISIONS:

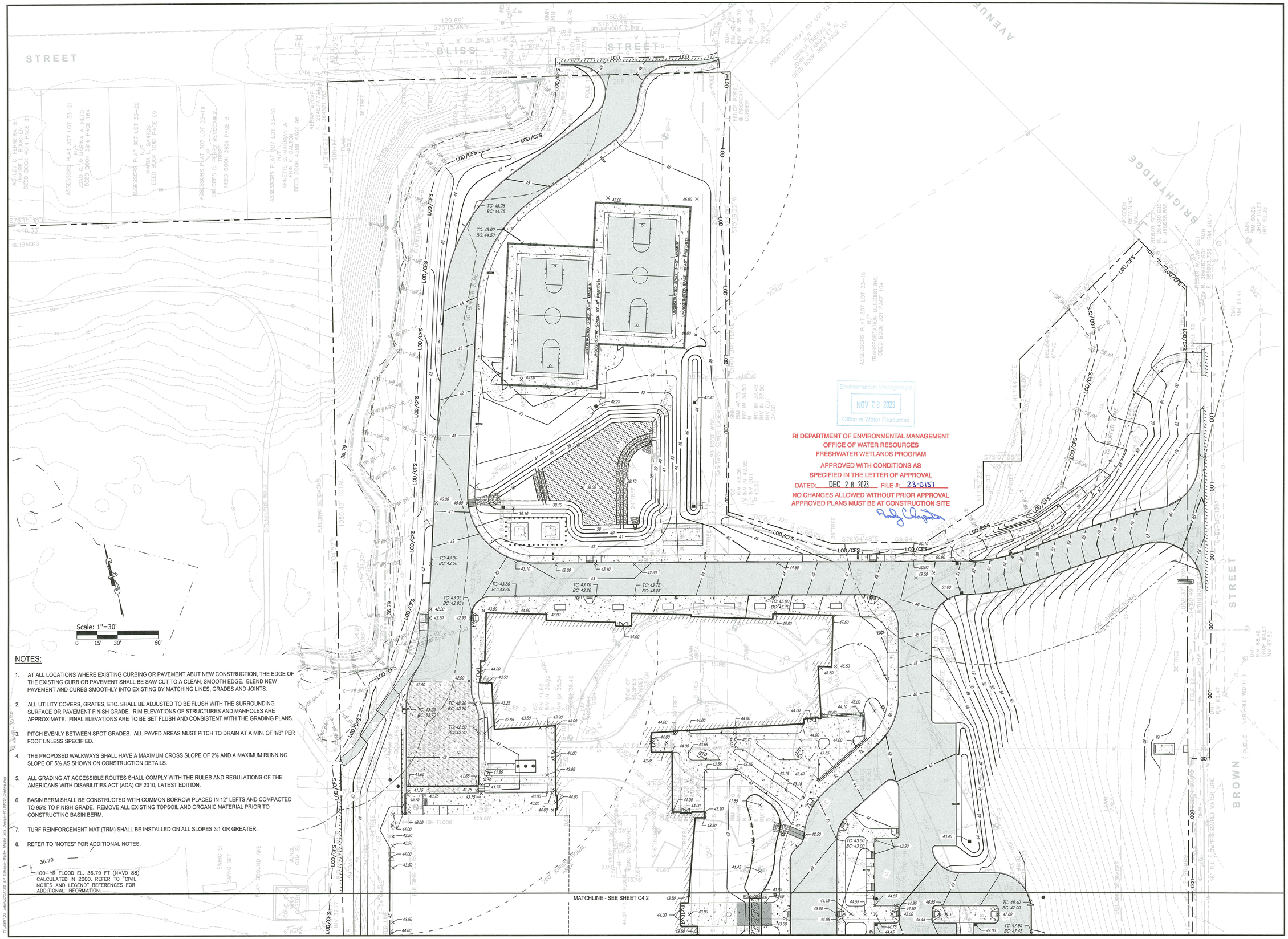
1	09/27/23	RIDEM RTC

PROJECT NO.:	22037.05
DATE:	JUNE 30, 2023
SCALE:	1" = 30'
DESIGNED BY:	NC/CH
CHECKED BY:	NC/CH
DRAWN BY:	SETB
APPROVED BY:	DLP

DRAWING TITLE: General Plan 2

DRAWING NO.: C3.2

SHEET NO. 8 OF ~~24~~ 26



Environmental Management
NOV 28 2023
Office of Water Resources

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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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.
2. 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.
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.

36.79
100-YR FLOOD EL. 36.79 FT (NAVD 88) CALCULATED IN 2000. REFER TO "CIVIL NOTES AND LEGEND" REFERENCES FOR ADDITIONAL INFORMATION.

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Ai3 ARCHITECTS

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DAVID L. POTTER
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09.27.23

REVISIONS:		
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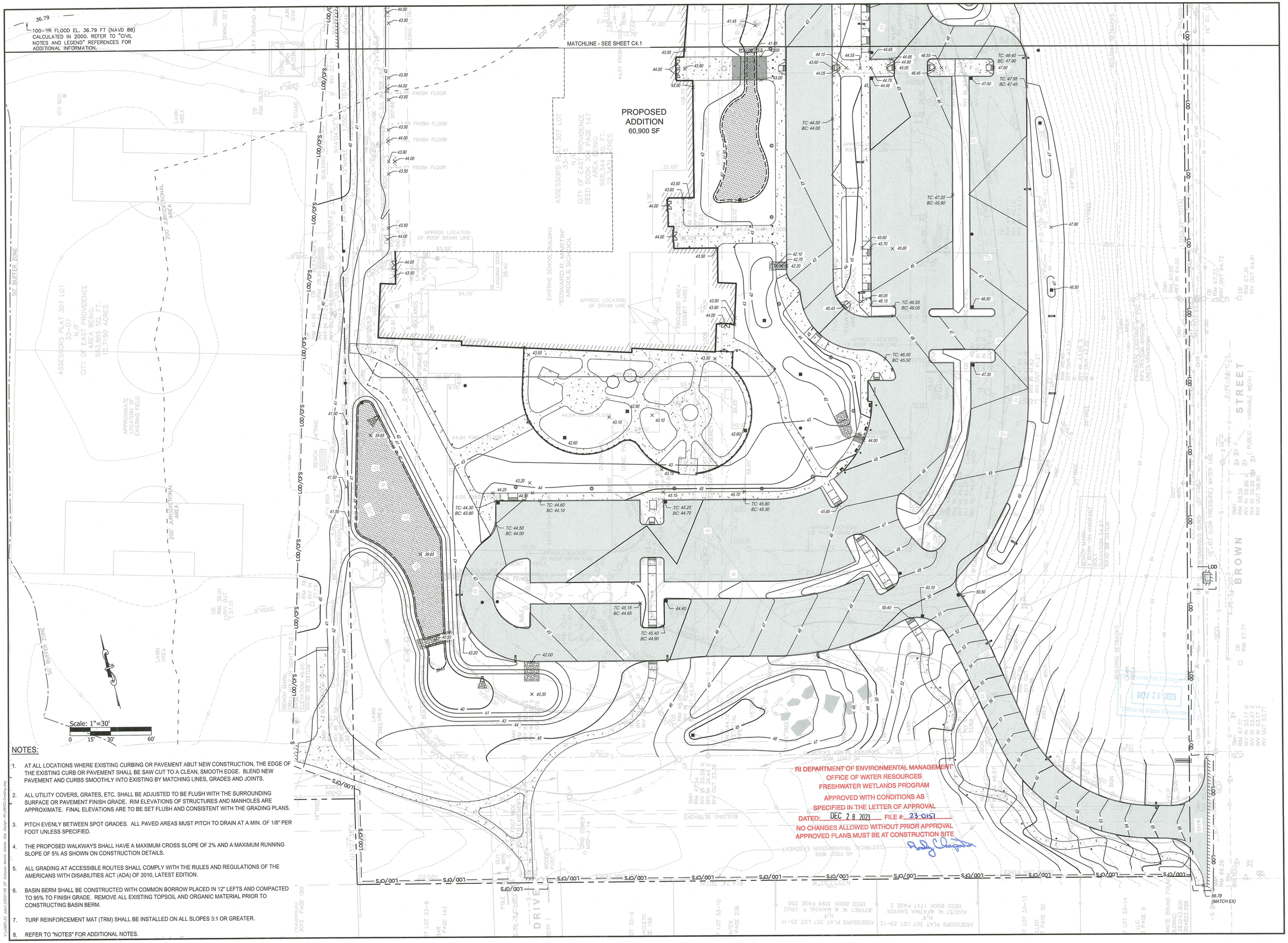
PROJECT NO.:	22037.05
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SCALE:	1" = 30'
DESIGNED BY:	NC/CH
CHECKED BY:	NC/CH
DRAWN BY:	SETB
APPROVED BY:	DLP

DRAWING TITLE:
Grading Plan 1

DRAWING NO.:
C4.1

SHEET NO. 9 OF ~~21~~ 26

X:\JOBS\22037.05 EP Schools-Martin Middle Site Design-RI\DWGS\Grading.dwg



NOTES:

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2. 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.
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.
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7. TURF REINFORCEMENT MAT (TRM) SHALL BE INSTALLED ON ALL SLOPES 3:1 OR GREATER.
8. REFER TO "NOTES" FOR ADDITIONAL NOTES.

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DATED: DEC 28 2023 FILE #: 23-0157
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RECEIVED NOV 26 2023 Office of Water Resources

PARE

EDWARD R. MARTIN MIDDLE SCHOOL EAST PROVIDENCE, RHODE ISLAND

Ai3 ARCHITECTS

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 33-07 & 33-15

DAVID L. POTTER
No. 8665
09.27.23
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:		
1	09/27/23	RIDEM RTC

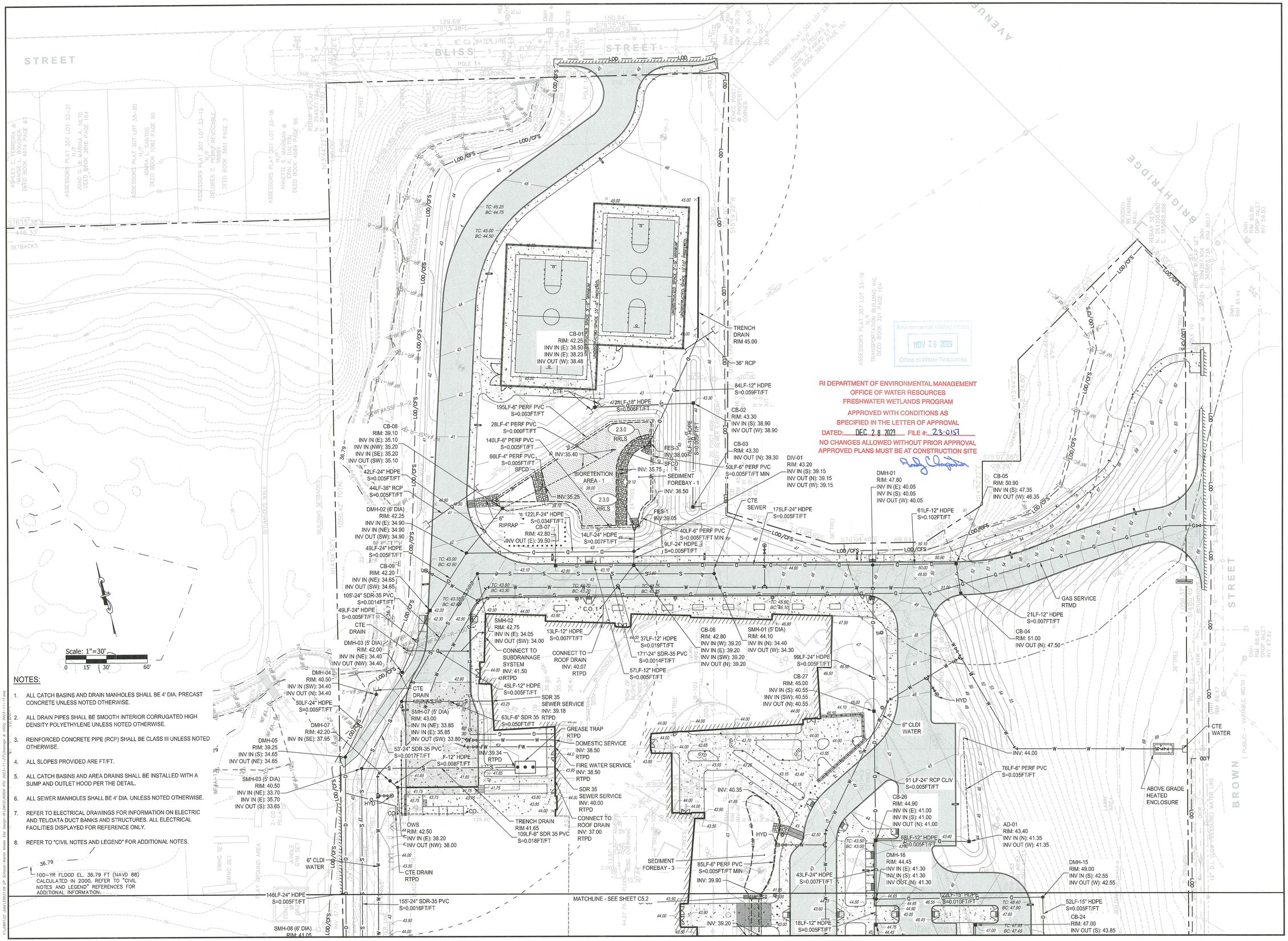
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SCALE:	1" = 30'
DESIGNED BY:	NC/CH
CHECKED BY:	NC/CH
DRAWN BY:	SETB
APPROVED BY:	DLP

DRAWING TITLE: Grading Plan 2

DRAWING NO.: C4.2

SHEET NO. 10 OF ~~21~~ 26

X:\JOBS\22037.05 EP Schools-Martin Middle Site Design-RI\DWG\Grading.dwg John\22037.05 Jun 30, 2023 - 3:05pm



PARE

EDWARD R. MARTIN MIDDLE SCHOOL EAST PROVIDENCE, RHODE ISLAND

Ai3 ARCHITECTS

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 33-07 & 33-15

DAVID L. POTTER No. 8665 11.28.23 REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:		
1	09/27/23	RIDEM RTC
2	10/26/23	RIDEM RTC
3	11/27/23	RIDEM RTC

PROJECT NO.:	22037.05
DATE:	JUNE 30, 2023
SCALE:	1" = 30'
DESIGNED BY:	NC/CH
CHECKED BY:	NC/CH
DRAWN BY:	SETB
APPROVED BY:	DLP

DRAWING TITLE:

Drainage & Utility Plan 1

DRAWING NO.: C5.1

SHEET NO. 11 OF ~~24~~ 26

V:\JOBS\22_Jobs\22037.05_EP_Schools-Martin Middle Sch Design-Eff\DWGS\ROUX RTC 2023-11-27\Drawings & Utility 2023-11-17.dwg

36.79
100-YR FLOOD EL. 36.79 FT (NAVD 88) CALCULATED IN 2000. REFER TO "CIVIL NOTES AND LEGEND" REFERENCES FOR ADDITIONAL INFORMATION.

MATCHLINE - SEE SHEET C5.1

PROPOSED ADDITION

146LF-24" HDPE S=0.005FT/FT
155'-24" SDR-35 PVC S=0.0016FT/FT
6" CLDI WATER
CTE DRAIN RTPD
SMH-08 (6' DIA) RIM: 41.05 INV IN (N): 33.40 INV IN (E): 37.80 INV OUT (S): 33.35
DMH-17 RIM: 42.00 INV IN (S): 35.55 INV IN (E): 38.00 INV OUT (N): 35.55
18'-6" SDR 35 PVC S=0.0474FT/FT
34LF-12" HDPE S=0.042FT/FT
SDR 35 SEWER SERVICE INV: 38.83 RTPD
CONNECT TO ROOF DRAIN INV: 39.43 RTPD
WATER ENCASEMENT
SMH-04 RIM: 41.50 INV IN (N): 33.25 INV OUT (SW): 33.20
90LF-24" HDPE S=0.005FT/FT
52'-24" SDR-35 PVC S=0.0018FT/FT
6" CLDI WATER
DMH-08 RIM: 40.95 INV IN (S): 36.00
69'-24" SDR-35 PVC S=0.0014FT/FT
CTE DRAIN RTPD
33'-6" SDR 35 PVC S=0.0489FT/FT
WATER ENCASEMENT
SMH-09 (6' DIA) RIM: 40.75 INV IN (NE): 33.10 INV IN (E): 37.25 INV OUT (SW): 33.05
SDR 35 SEWER SERVICE INV: 39.07 RTPD
33'-24" SDR-35 PVC S=0.0014FT/FT
CONNECT TO ROOF DRAIN INV. 40.02 RTPD
77LF-24" HDPE S=0.005FT/FT
HYD
SMH-05 RIM: 40.30 INV IN (NE): 33.00 INV OUT (S): 32.95
DMH-09 (5' DIA) RIM: 42.00 INV IN (SE): 36.40 INV IN (E): 36.40 INV OUT (N): 36.40
62LF-12" HDPE S=0.005FT/FT
C.O. 4
16LF-24" HDPE S=0.005FT/FT
FES-4 INV:39.70
86LF-24" HDPE S=0.005FT/FT
CB-10 RIM: 40.15 INV IN (S): 36.50 INV IN (W): 36.55 INV IN (E): 36.55 INV OUT (NW): 36.50
130LF-6" PERF PVC S=0.005FT/FT
2.3.0 RRLS
130LF-6" PERF PVC S=0.005FT/FT
109LF-4" PERF PVC S=0.005FT/FT
295'-24" SDR-35 PVC S=0.0015FT/FT
BIORETENTION AREA - 2
159LF-24" HDPE S=0.022FT/FT
66LF-4" PERF PVC S=0.000FT/FT
INV: 37.20
INV: 37.05
INV: 37.20
SEDIMENT FOREBAY CHECK DAM
INV: 37.75
DIV-02 RIM: 42.75 INV IN (E): 40.15 INV OUT (N): 40.15 INV OUT (S): 40.15 INV: 37.75
SFCD
54LF-18" HDPE S=0.005FT/FT
FES-2 INV:39.90
SEDIMENT FOREBAY - 2
6" RIPRAP
INV: 38.50
SMH-06 (5' DIA) RIM: 41.90 INV IN (N): 32.50 INV IN (E): 32.45 INV OUT (W): 32.45
CTE SEWER
145LF-6" PERF PVC S=0.005FT/FT MIN
2.3.0 RRLS

SEDIMENT FOREBAY - 3
85LF-6" PERF PVC S=0.005FT/FT MIN
INV: 39.90
INV: 39.20
34LF-4" PERF PVC S=0.000FT/FT
BIORETENTION AREA - 3
44LF-4" PERF PVC S=0.005FT/FT
CB-14 RIM: 41.95 INV IN (N): 38.65 INV IN (E): 38.70 INV IN (W): 38.65 INV OUT (S): 38.65
110LF-6" PERFORATED PVC S=0.005FT/FT
HYD
6" RIPRAP
169LF-15" HDPE S=0.005FT/FT
CB-12 RIM: 42.90 INV IN (SE): 37.45 INV OUT (W): 37.45
CB-11 RIM: 42.60 INV IN (E): 37.20 INV OUT (NW): 37.20
CB-13 RIM: 42.60 INV IN (E): 37.90 INV IN (N): 37.85 INV OUT (NW): 37.85
6" CLDI WATER
87LF-18" HDPE S=0.005FT/FT
49LF-18" HDPE S=0.005FT/FT
82LF-24" HDPE S=0.005FT/FT
CB-15 RIM: 43.80 INV OUT (S): 40.60
72LF-12" HDPE S=0.005FT/FT
CB-16 RIM: 44.70 INV OUT (S): 41.20
72LF-12" HDPE S=0.005FT/FT
DMH-11 RIM: 43.50 INV IN (E): 40.20 INV IN (N): 40.25 INV OUT (W): 40.20
CB-17 RIM: 44.40 INV IN (E): 40.80 INV IN (S): 40.80 INV IN (N): 40.80 INV OUT (W): 40.80
123LF-18" HDPE S=0.005FT/FT
10LF-18" HDPE S=0.005FT/FT
105LF-6" PERF PVC S=0.005FT/FT MIN
100LF-12" HDPE S=0.005FT/FT
AD-03 RIM: 44.16 INV OUT (N): 41.30
39LF-12" HDPE S=0.005FT/FT
DMH-10 (6' DIA) RIM: 42.95 INV IN (SE): 36.80 INV IN (S): 36.65 INV OUT (W): 36.80

DMH-16 RIM: 44.45 INV IN (E): 41.30 INV IN (S): 41.30 INV OUT (N): 41.30
43LF-24" HDPE S=0.007FT/FT
18LF-12" HDPE S=0.005FT/FT
CB-25 RIM: 44.45 INV OUT (N): 41.40
6" CLDI WATER
100LF-6" PERFORATED PVC S=0.005FT/FT
114LF-12" HDPE S=0.005FT/FT
AD-04 (DOME GRATE) RIM: 41.45 INV OUT (S): 38.65
52LF-12" HDPE S=0.006FT/FT
47LF-12" HDPE S=0.006FT/FT
AD-02 (DOME GRATE) RIM: 41.45 INV IN (N): 38.35 INV OUT (S): 38.35
39LF-12" HDPE S=0.006FT/FT
DMH-12 RIM: 43.20 INV IN (N): 38.10 INV OUT (W): 38.10
6" RIPRAP
162LF-15" HDPE S=0.005FT/FT
173LF-15" HDPE S=0.007FT/FT
34LF-12" HDPE S=0.042FT/FT
CB-18 RIM: 50.70 INV IN (E): 46.60 INV OUT (N): 46.00
AD-01 RIM: 44.16 INV OUT (N): 41.30
122LF-15" HDPE S=0.010FT/FT
DMH-13 RIM: 48.75 INV IN (NE): 41.95 INV IN (S): 44.50 INV OUT (W): 41.95
CB-19 RIM: 50.50 INV OUT (W): 46.75
30LF-12" HDPE S=0.005FT/FT
41LF-15" HDPE S=0.005FT/FT
58LF-15" HDPE S=0.006FT/FT
DMH-15 RIM: 49.00 INV IN (S): 42.55 INV OUT (W): 42.55
52LF-15" HDPE S=0.005FT/FT
CB-24 RIM: 47.00 INV OUT (S): 43.85
CB-23 RIM: 46.00 INV IN (S): 42.80 INV OUT (N): 42.80
61LF-6" PERF PVC S=0.052FT/FT
INV: 46.00
DMH-14 RIM: 47.50 INV IN (N): 43.30 INV OUT (S): 43.30
CB-22 RIM: 46.50 INV IN (S): 45.40 INV OUT (W): 43.35
CB-21 RIM: 46.50 INV IN (N): 43.00 INV IN (E): 43.00 INV OUT (S): 43.00
138LF-6" PERF PVC S=0.013FT/FT
CB-20 RIM: 47.35 INV IN (N): 42.80 INV OUT (SW): 42.80
INV: 47.25
57LF-6" PERF PVC S=0.013FT/FT
INV: 48.00
LOD
CB-26 RIM: 50.50 INV OUT (W): 46.75
INV: 46.75
86.78 (MATCH EX)

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

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. REFER TO "CIVIL NOTES AND LEGEND" 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: DEC 28 2023 FILE #: 23-0157
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Received
NOV 28 2023
Office of Water Resources

PARE

EDWARD R. MARTIN MIDDLE SCHOOL
PROVIDENCE, RHODE ISLAND

Ai3 ARCHITECTS

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 33-07 & 33-15

DAVID L. POTTER
No. 8665
11.22.23
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:

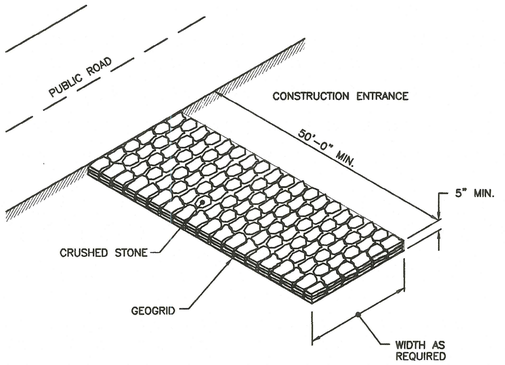
1	09/27/23	RIDEM RTC
2	10/26/23	RIDEM RTC
3	11/27/23	RIDEM RTC

PROJECT NO.:	22037.05
DATE:	JUNE 30, 2023
SCALE:	1" = 30'
DESIGNED BY:	NC/CH
CHECKED BY:	NC/CH
DRAWN BY:	SETB
APPROVED BY:	DLP

DRAWING TITLE:
Drainage & Utility Plan 2

DRAWING NO.:
C5.2
SHEET NO. 12 OF ~~26~~ 21

Y:\JOBS\22 Jobs\22037.05 EP Schools-Martin Middle Site Design-RI\DWGS\RIDEM RTC 2023-11-27\Drainage & Utility 2023-11-17.dwg



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

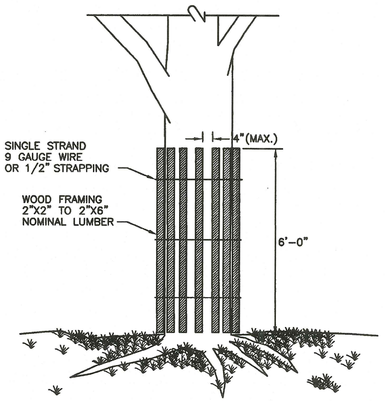
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS NO.	BY	DATE

CONSTRUCTION ACCESS

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

R.I. STANDARD 9.9.0



NOTE:
SHALL BE IN ACCORDANCE WITH SECTION L.11 OF THE STANDARD SPECIFICATIONS.

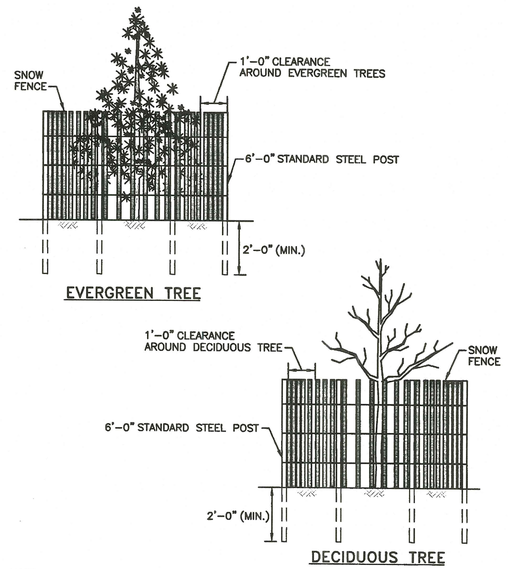
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS NO.	BY	DATE

TREE PROTECTION DEVICE

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

R.I. STANDARD 51.1.0



NOTE:
SHALL BE IN ACCORDANCE WITH SECTION L.11 OF THE R.I. STANDARD SPECIFICATIONS.

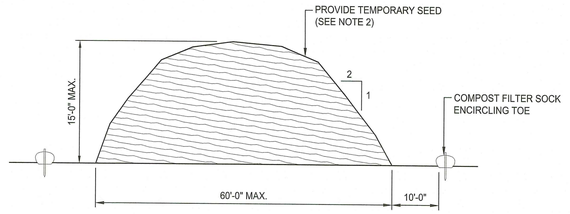
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS NO.	BY	DATE

DRIP LINE TREE PROTECTION DEVICE FOR EXISTING TREES

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

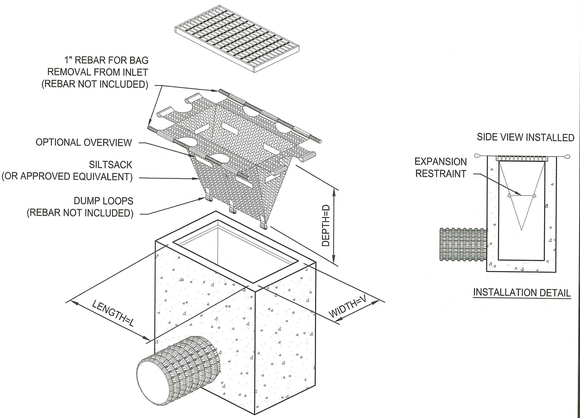
R.I. STANDARD 51.1.1



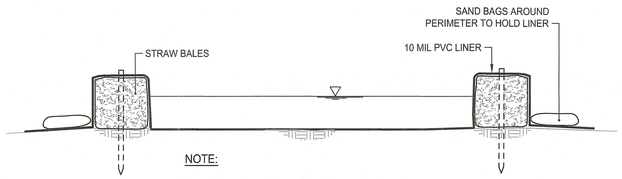
NOTES:

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

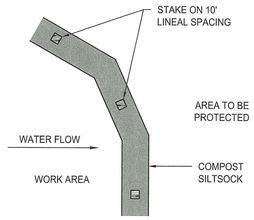


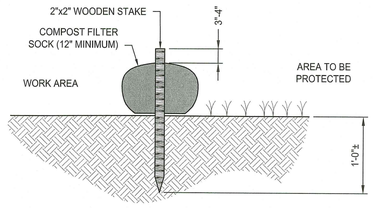
TEMPORARY INLET PROTECTION
NOT TO SCALE



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

CONCRETE WASHOUT FACILITY
NOT TO SCALE

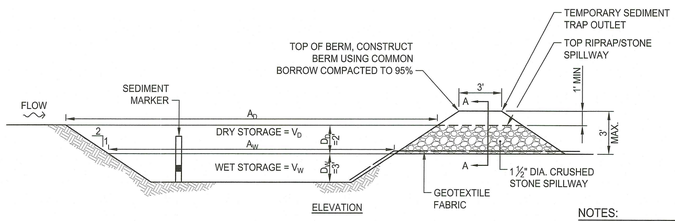




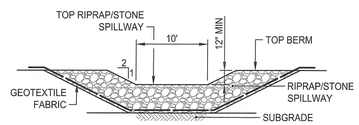
NOTES:

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



ELEVATION



SECTION A-A

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	50	25	1,250	3,187	3,164	6,352
TST-2	60	30	1,800	4,590	4,384	8,974
TST-3	85	45	3,825	9,753.75	8,754	18,508
TST-4	80	50	4,000	10,200	9,104	19,304

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

Environmental Management
NOV 28 2023
Office of Water Resources

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: DEC 28 2023 FILE #: 23-0157
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

PARE

EDWARD R. MARTIN MIDDLE SCHOOL EAST PROVIDENCE, RHODE ISLAND

AI3 ARCHITECTS

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 33-07 & 33-15

DAVID L. POTTER
No. 8665
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
09.27.23

REVISIONS:		
1	09/27/23	RIDEM RTC

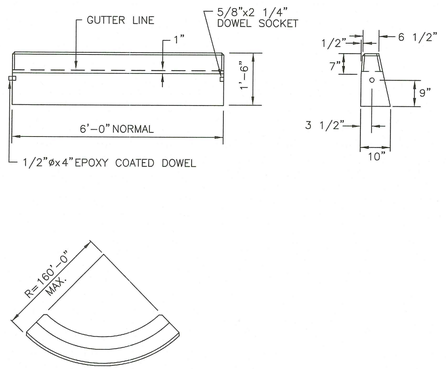
PROJECT NO.:	22037.05
DATE:	JUNE 30, 2023
SCALE:	NTS
DESIGNED BY:	NC/CH
CHECKED BY:	NC/CH
DRAWN BY:	SETB
APPROVED BY:	DLP

DRAWING TITLE:
Details - 1

DRAWING NO.:
C6.1

SHEET NO. 13 OF ~~21~~ 26

Y:\J2857.22 Jobs\J2037.05 EP Schools-Martin Middle Site Design-(8)\2857Details.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.

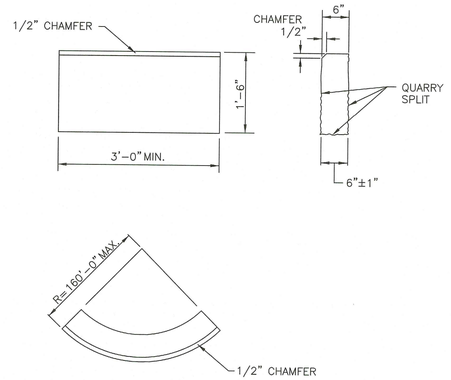
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS		
NO.	BY	DATE
1	MLP	Mar 05

PRECAST CONCRETE CURB

JUNE 15, 1998 (ISSUE DATE)

R.I. STANDARD 7.1.0



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.

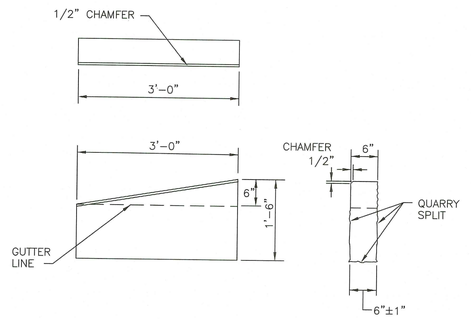
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

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

GRANITE CURB

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. TOP SURFACE TO BE DRESSED BY SAW. REMAINDER MAY BE QUARRY SPLIT.

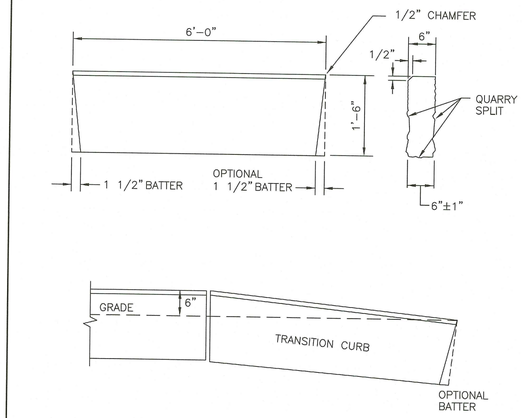
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS		
NO.	BY	DATE
1	MLP	Mar 2005
2	MLP	Jun 2010
3	MLP	Sep 2012

3'-0" GRANITE TRANSITION CURB

JUNE 15, 1998 (ISSUE DATE)

R.I. STANDARD 7.3.1



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.

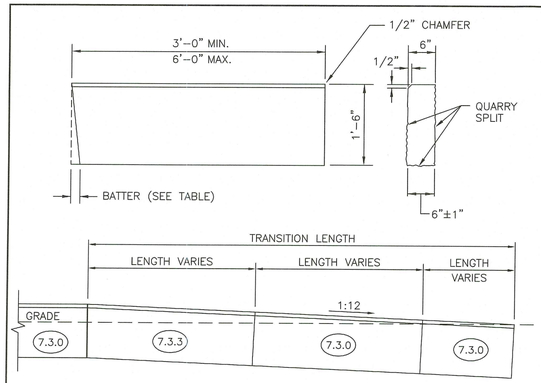
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

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

6'-0" GRANITE TRANSITION CURB

JUNE 15, 1998 (ISSUE DATE)

R.I. STANDARD 7.3.2



TRANSITION LENGTH (FT.)	BATTER (IN.)
6.0	1.5
7.0	1.3
8.0	1.2
9.5	1.0
11.5	0.8
15.0	0.6
18.0	0.5

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. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR CURB FILLER PIECES TO BE 3'-0" (GREATER LENGTHS PREFERRED).
4. TOP SURFACE TO BE DRESSED BY SAW. REMAINDER MAY BE QUARRY SPLIT.

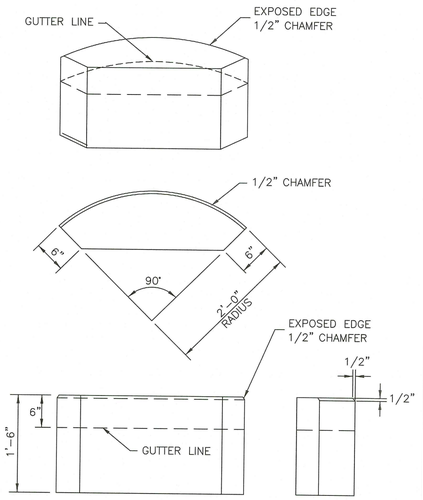
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

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

GRANITE WHEELCHAIR RAMP TRANSITION CURB

JUNE 15, 1998 (ISSUE DATE)

R.I. STANDARD 7.3.3



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.

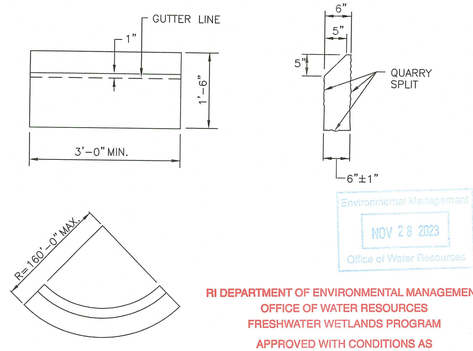
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

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

GRANITE 2'-0" RADIUS CORNER

JUNE 15, 1998 (ISSUE DATE)

R.I. STANDARD 7.3.4



CIRCULAR CURB

Environmental Management
NOV 28 2023
Office of Water Resources

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: DEC 28 2023 FILE #: 23-0157
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. TOP SURFACE AND SLOPED SURFACE TO BE DRESSED BY SAW. REMAINDER TO 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.

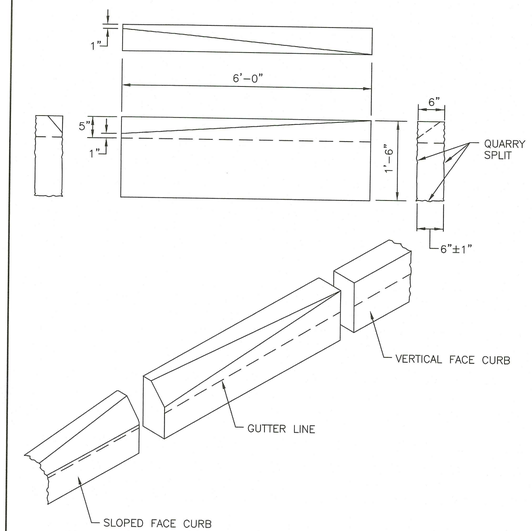
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS		
NO.	BY	DATE
1	MLP	Mar 05

GRANITE SLOPED FACE CURB

JUNE 15, 1998 (ISSUE DATE)

R.I. STANDARD 7.4.0



NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
2. TOP SURFACE AND SLOPED SURFACE TO BE DRESSED BY SAW. REMAINDER TO BE QUARRY SPLIT.
3. DRAWING SHOWS TRANSITION CURB FOR ONE DIRECTION. FOR OTHER DIRECTION USE OPPOSITE HAND.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS		
NO.	BY	DATE
1	MLP	Mar 05

GRANITE TRANSITION CURB (VERTICAL FACE TO SLOPED FACE)

JUNE 15, 1998 (ISSUE DATE)

R.I. STANDARD 7.4.2

PARE

EDWARD R. MARTIN MIDDLE SCHOOL
EAST PROVIDENCE, RHODE ISLAND

AI3 ARCHITECTS

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 3307 & 3315

DAVID L. POTTER
No. 8665
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
09.27.23

REVISIONS:

1	09/27/23	RIDEM RTC

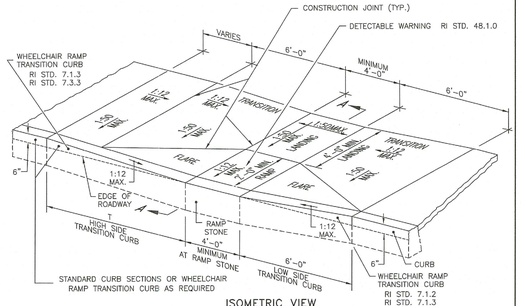
PROJECT NO.:	22037.05
DATE:	JUNE 30, 2023
SCALE:	NTS
DESIGNED BY:	NC/CH
CHECKED BY:	NC/CH
DRAWN BY:	SETB
APPROVED BY:	DLP

DRAWING TITLE:
Details - 2

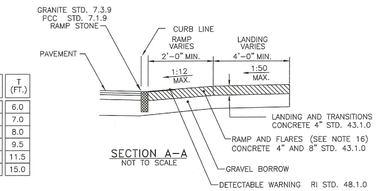
DRAWING NO.:
C6.2

SHEET NO. 14 OF ~~21~~ 26

K:\JOBS\22037.05 Edward R. Martin Middle School\Engineering\Design\Civil\Details.dwg



ISOMETRIC VIEW
NOT TO SCALE



SECTION A–A
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

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

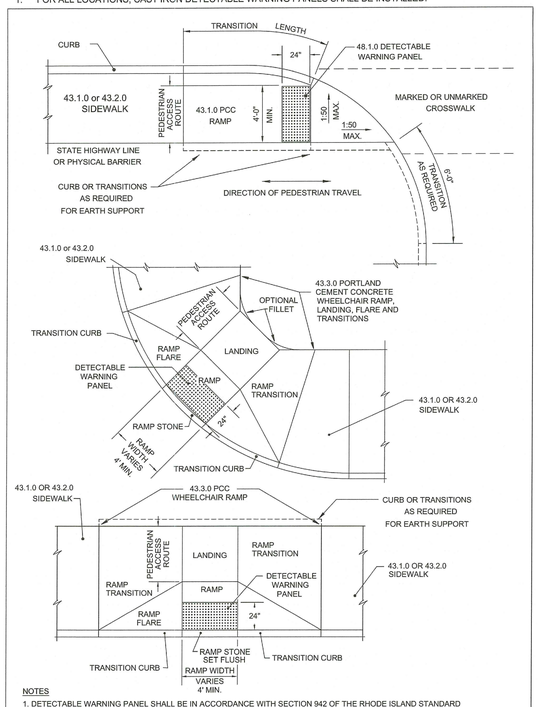
REVISIONS		
NO.	BY	DATE
1	MLP	Oct 2005
2	MLP	Jan 2008
3	MLP	Sep 2012

WHEELCHAIR RAMP

Jeffrey K. Cyganik, CHIEF ENGINEER TRANSPORTATION; Edmund M. Parker Jr., CHIEF DESIGN ENGINEER TRANSPORTATION; JUNE 15, 1998 ISSUE DATE

R.I. STANDARD 43.3.0

1. FOR ALL LOCATIONS, CAST IRON DETECTABLE WARNING PANELS SHALL BE INSTALLED.



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

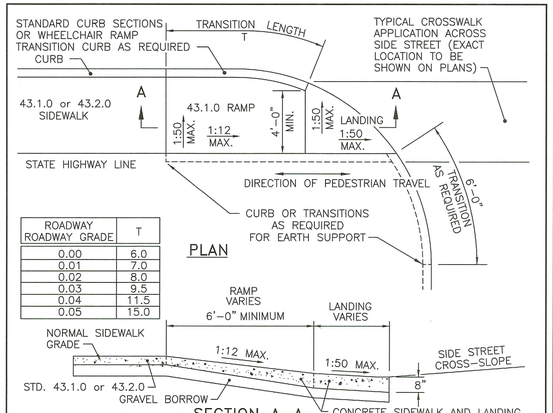
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

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

DETECTABLE WARNING PANEL PLACEMENT

Jeffrey K. Cyganik, CHIEF ENGINEER TRANSPORTATION; Edmund M. Parker Jr., CHIEF DESIGN ENGINEER TRANSPORTATION; JUNE 15, 1998 ISSUE DATE

R.I. STANDARD 48.1.0



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

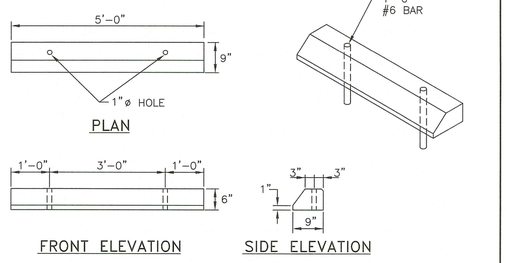
Jeffrey K. Cyganik, CHIEF ENGINEER TRANSPORTATION; Edmund M. Parker Jr., CHIEF DESIGN ENGINEER TRANSPORTATION; JUNE 15, 1998 ISSUE DATE

R.I. STANDARD 43.3.1

1. FOR ALL LOCATIONS, CAST IRON DETECTABLE WARNING PANELS SHALL BE INSTALLED.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: DEC 28 2023 FILE #: 23-0151
NO CHANGES ALLOWED WITHOUT PRIOR APPR
APPROVED PLANS MUST BE AT CONSTRUCT

Environmental Management
NOV 28 2023
Office of Water Resources



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.

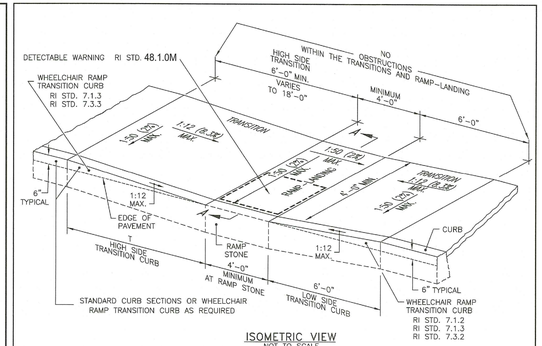
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS		
NO.	BY	DATE
1	MLP	Mar 05

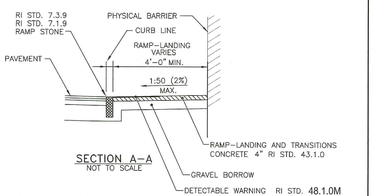
PRECAST CONCRETE CAR STOPS

Jeffrey K. Cyganik, CHIEF ENGINEER TRANSPORTATION; Edmund M. Parker Jr., CHIEF DESIGN ENGINEER TRANSPORTATION; JUNE 15, 1998 ISSUE DATE

R.I. STANDARD 7.2.4



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

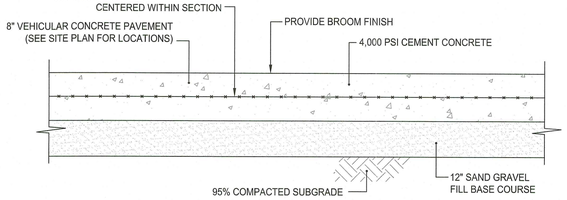
REVISIONS		
NO.	BY	DATE

RAMP–LANDING FOR NARROW SIDEWALK

Jeffrey K. Cyganik, CHIEF ENGINEER TRANSPORTATION; Victor M. Mercado, CHIEF DESIGN ENGINEER TRANSPORTATION; MARCH 31, 2015 ISSUE DATE

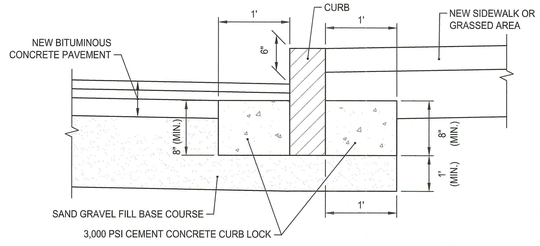
R.I. STANDARD 43.3.2M

1. FOR ALL LOCATIONS, CAST IRON DETECTABLE WARNING PANELS SHALL BE INSTALLED.



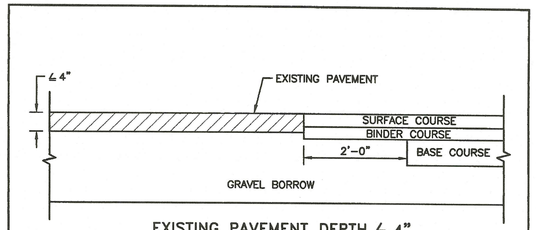
1. COMPACT SUBGRADE WITH 6 OVERLAPPING PASSES OF A VIBRATORY ROLLER IN ACCORDANCE WITH GEOTECHNICAL REPORT. WHERE SOFT ZONES ARE OBSERVED, REMOVE SOFT SOIL AND REPLACE WITH COMPACTED COMMON BORROW.
2. REMOVE BURIED ORGANIC SOIL TO A DEPTH OF 2 FEET BENEATH SUBGRADE. PROOFROLL SUBGRADE WITH LOADED RUBBER TIRE TRUCK. WHERE SOFT ZONES ARE ENCOUNTERED, REMOVE SOFT SOIL AND REPLACE WITH COMPACTED COMMON BORROW.
3. SAND GRAVEL FILL BENEATH VEHICULAR CONCRETE SHALL HAVE NO MORE THAN 5% PASSING NO. 200 SIEVE.

VEHICULAR CONCRETE PAVEMENT DETAIL
NOT TO SCALE

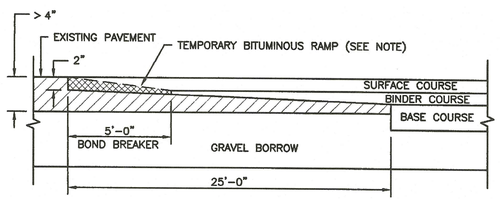


NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
2. PROVIDE CEMENT CONCRETE CURB LOCK ON ALL CURBS

CURB SETTING DETAIL
NOT TO SCALE



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.

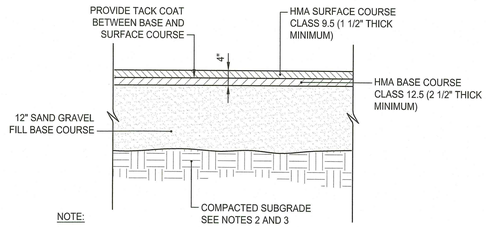
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS		
NO.	BY	DATE

TRANSVERSE PAVEMENT CUT AND MATCH

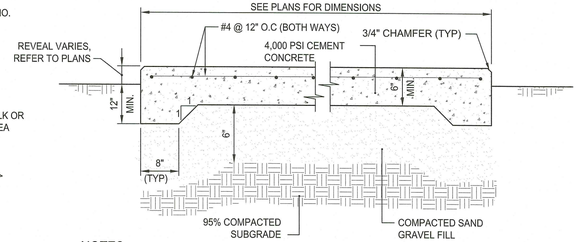
Jeffrey K. Cyganik, CHIEF ENGINEER TRANSPORTATION; Edmund M. Parker Jr., CHIEF DESIGN ENGINEER TRANSPORTATION; JUNE 15, 1998 ISSUE DATE

R.I. STANDARD 47.1.1



NOTE:
1. SUBMIT JOB MIX FORMULAS TO ENGINEER FOR APPROVAL PRIOR TO PLACEMENT.
2. COMPACT UPGRADE WITH 6 OVERLAPPING PASSES OF A VIBRATORY ROLLER IN ACCORDANCE WITH GEOTECHNICAL REPORT. WHERE SOFT ZONES ARE OBSERVED, REMOVE SOFT SOIL AND REPLACE WITH COMPACTED COMMON BORROW.
3. REMOVE BURIED ORGANIC SOIL TO A DEPTH OF 2 FEET BENEATH SUBGRADE. PROOFROLL SUBGRADE WITH LOADED RUBBER TIRE TRUCK. WHERE SOFT ZONES ARE ENCOUNTERED, REMOVE SOFT SOIL AND REPLACE WITH COMPACTED COMMON BORROW.

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.
3. COMPACT SUBGRADE WITH 6 OVERLAPPING PASSES OF A VIBRATORY ROLLER IN ACCORDANCE WITH GEOTECHNICAL REPORT. WHERE SOFT ZONES ARE OBSERVED, REMOVE SOFT SOIL AND REPLACE WITH COMPACTED COMMON BORROW.
4. REMOVE BURIED ORGANIC SOIL TO A DEPTH OF 2 FEET BENEATH SUBGRADE. PROOFROLL SUBGRAE WITH LOADED RUBBER TIRE TRUCK. WHERE SOFT ZONES ARE ENCOUNTERED, REMOVE SOFT SOIL AND REPLACE WITH COMPACTED COMMON BORROW.
5. SAND GRAVEL FILL BENEATH CEMENT CONCRETE PAD SHALL HAVE NO MORE THAN 5% PASSING NO. 200 SIEVE.

CEMENT CONCRETE PAD
NOT TO SCALE

PARE

EDWARD R. MARTIN MIDDLE SCHOOL EAST PROVIDENCE, RHODE ISLAND

Ai3 ARCHITECTS

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 33-07 & 33-15

DAVID L. POTTER
No. 8665
09.27.23
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:

1	09/27/23	RIDEM RTC

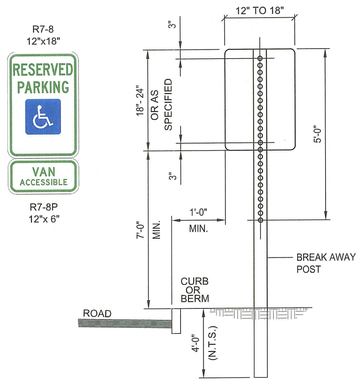
PROJECT NO.:	22037.05
DATE:	JUNE 30, 2023
SCALE:	NTS
DESIGNED BY:	NC/CH
CHECKED BY:	NC/CH
DRAWN BY:	SETB
APPROVED BY:	DLP

DRAWING TITLE:
Details - 3

DRAWING NO.:
C6.3

SHEET NO. 15 OF ~~21~~ 24

I:\JOBS\22_Jobs\22037.05 EP Schools-Martin Middle Site Design-99 (DWG)\Details.dwg

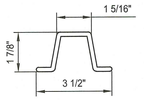


NOTE:

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



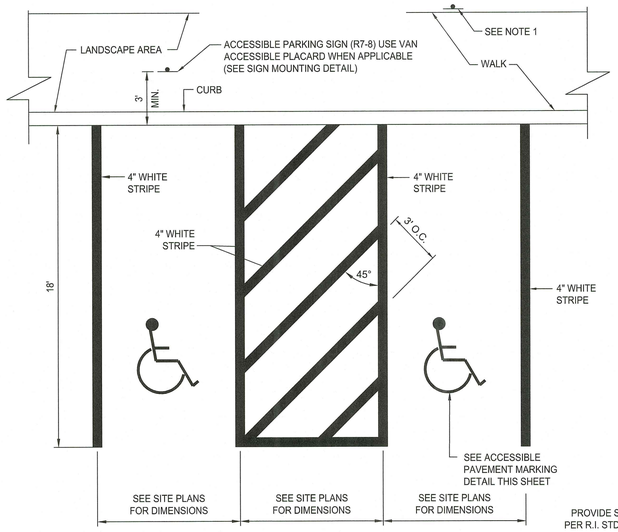
PARKING SIGNS SHALL BE SET AT AN ANGLE OF NOT LESS THAN 30° NOR MORE THAN 45° IN A LINE PARALLEL TO THE FLOW OF TRAFFIC.

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

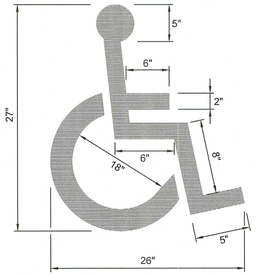


NOTES:

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

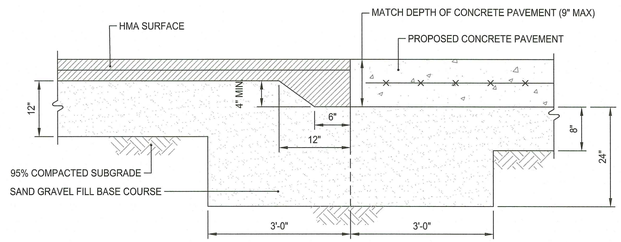


NOTE:

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

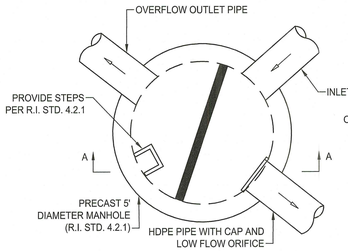
ACCESSIBLE PAVEMENT MARKING

NOT TO SCALE

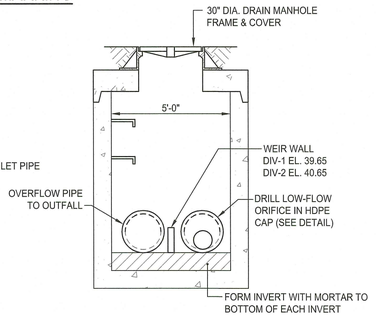


ASPHALT TURNDOWN DETAIL

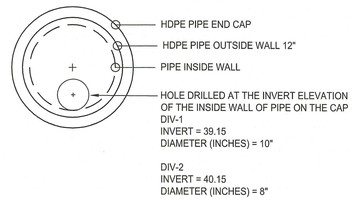
NOT TO SCALE



DIV 1/DIV 2



SECTION A-A DIVERSION WEIR WALL ELEVATION



CAP ELEVATION

TYPICAL DIVERSION MANHOLE DETAIL

NOT TO SCALE

LEGEND	DESIGNATION	SIZE
STOP	R1-1	(30" x 30")
	R3-2	(24" x 24")
RESERVED PARKING	R7-8	(12" x 18")
VAN ACCESSIBLE	R7-8P	(12" x 6")
	S1-1	(30" x 30")
	W16-7P	(12" x 24")
NO IDLING	NO IDLING	(12" x 18")

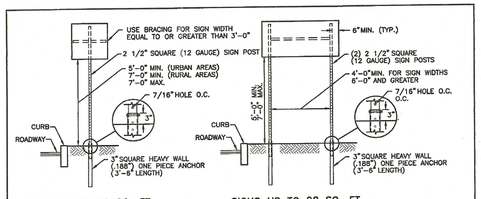
NOTE:

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. R7-8 AND R7-8P SHALL CONFORM TO ACCESSIBLE SIGN MOUNTING DETAIL.

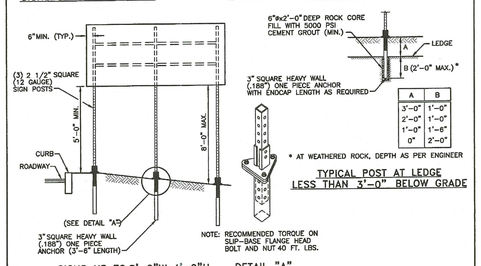
LEGEND	DESIGNATION	SIZE
YIELD	R1-2	(30" x 30" x 30")
RIGHT LANE MUST TURN RIGHT	R3-7R	(30" x 30")
LEFT LANE MUST TURN LEFT	R3-7L	(30" x 30")
	R4-7	(24" x 30")
ONE WAY	R6-1R	(36" x 12")
	R6-1L	(36" x 12")
KEEP LEFT/RIGHT	R9-7	(12" x 18")
BUSES ONLY DO NOT ENTER	BUSES ONLY	(18" x 24")
AUTHORIZED VEHICLES ONLY	R5-11	(30" x 24")

LEGEND	DESIGNATION	SIZE
EDWARD R. MARTIN MIDDLE SCHOOL PARKING AND DROP-OFF/PICK-UP ZONE	EVCS	(12" x 18")
NO SMOKING	NO SMOKING	(24" x 36")
CARPOOL VANPOOL LOW-EMITTING AND FUEL EFFICIENT VEHICLES ONLY	CARPOOL(RIGHT)	(12" x 18")
CARPOOL VANPOOL LOW-EMITTING AND FUEL EFFICIENT VEHICLES ONLY	CARPOOL(LEFT)	(12" x 18")
CARPOOL VANPOOL LOW-EMITTING AND FUEL EFFICIENT VEHICLES ONLY	CARPOOL (RIGHT/LEFT)	(12" x 18")
RESERVED	RESERVED	(12" x 18")
NO PARKING BUS STOP	R7-107R	(12" x 18")
NO PARKING BUS STOP	R7-107L	(12" x 18")

SIGN SCHEDULE



SIGNS UP TO 12 SQ. FT. SIGNS UP TO 28 SQ. FT.



SIGNS UP TO 8'-0"Wx4'-0"H DETAIL "A"

TYPICAL POST AT LEDGE LESS THAN 3'-0" BELOW GRADE

NOTE: RECOMMENDED TORQUE ON SLIP-BASE FLANGE HEAD BOLT AND NUT 40 FT. LBS.

NOTES:

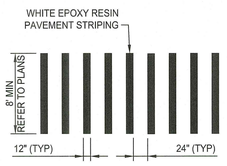
1. SHALL BE IN ACCORDANCE WITH SECTION T.15 OF THE R.I. STANDARD SPECIFICATIONS.
2. SIGN SUPPORTS HAVE BEEN DESIGNED IN ACCORDANCE WITH AASHTO SPECIFICATIONS FOR A 10-YEAR MEAN WIND RECURRENCE INTERVAL.
3. FOR INSTALLATION IN GROUND OR BITUMINOUS CONCRETE DRIVE SIGN POST ANCHOR TO REQUIRED DEPTH SO THAT 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. 23.3.0 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" (1'-0" MIN.) FROM EDGE OF CURB IN URBAN AREAS AND 6'-0" (MIN.) FROM EDGE OF CURB IN RURAL AREAS.
7. INSTALLATION PROCEDURES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
8. BREAKAWAY SIGN SUPPORTS SHALL BE FABRICATED FROM STEEL AND SHALL CONFORM TO THE BREAKAWAY DESIGN SHOWN ON THIS SHEET.
9. STEEL POSTS SHALL CONFORM TO ASTM-A361, FY= 55 KSI. THE CROSS SECTION OF THE POST SHALL BE SQUARE TUBE FORMED OF 12 GAUGE (.105" U.S.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".
10. ALL BOLTS SHALL CONFORM TO ASTM-A307, CLASS A.
11. ALL BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED AS PER ASTM-A153.
12. 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

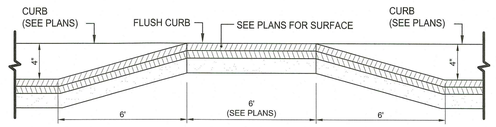
SIGN POST SELECTION AND INSTALLATION DETAILS
SQUARE POST (SIGNS UP TO 8'-0"Wx4'-0"H)

Jack L. Cyr, CHIEF ENGINEER, Operations
Edward A. Parks Jr., CHIEF DESIGN ENGINEER, Transportation
JUNE 15, 1998 ISSUE DATE
R.I. STANDARD 24.1.0



TYPICAL CROSSWALK DETAIL

NOT TO SCALE



NOTE:

SPEED BUMP TO BE PAINTED WITH WHITE EPOXY RESIN PAVEMENT MARKING

SPEED TABLE SECTION DETAIL

NOT TO SCALE

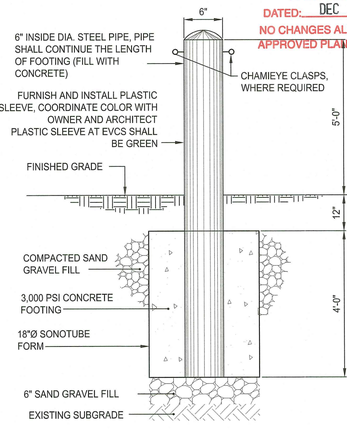
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S4-3
R2-1
S4-1

SCHOOL ZONE SPEED LIMIT ASSEMBLY

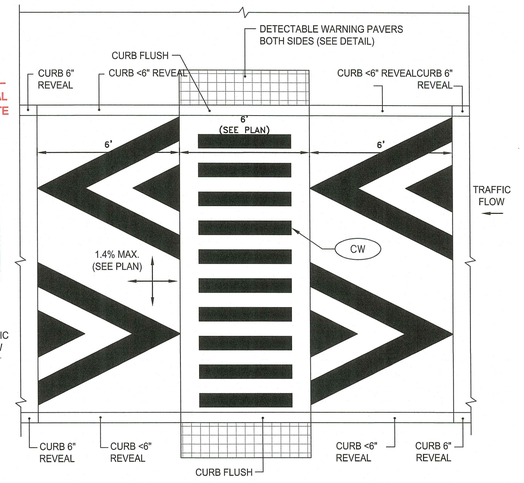
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: DEC 28 2023 FILE #: 23-0151
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Environmental Management
NOV 28 2023
Office of Water Resources



BOLLARD DETAIL

NOT TO SCALE



SPEED TABLE PLAN DETAIL

NOT TO SCALE

PARE

EDWARD R. MARTIN MIDDLE SCHOOL EAST PROVIDENCE, RHODE ISLAND

Ai3 ARCHITECTS

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 33-07 & 33-15

DAVID L. POTTER
No. 8665
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
09.27.23

REVISIONS:

1	09/27/23	RIDEM RTC

PROJECT NO.:	22037.05
DATE:	JUNE 30, 2023
SCALE:	NTS
DESIGNED BY:	NC/CH
CHECKED BY:	NC/CH
DRAWN BY:	SETB
APPROVED BY:	DLP

DRAWING TITLE:

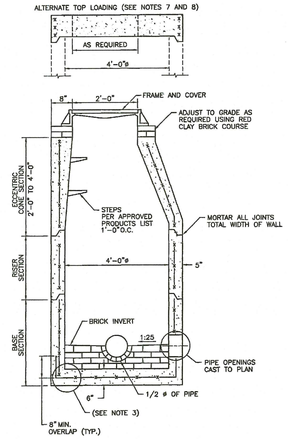
Details - 4

DRAWING NO.:

C6.4

SHEET NO. 16 OF ~~21~~ 26

Y:\JOBS\22 Jobs\22037.05 EP Schools-Martin Middle Site Design-(R)\DWGS\Details.dwg



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.

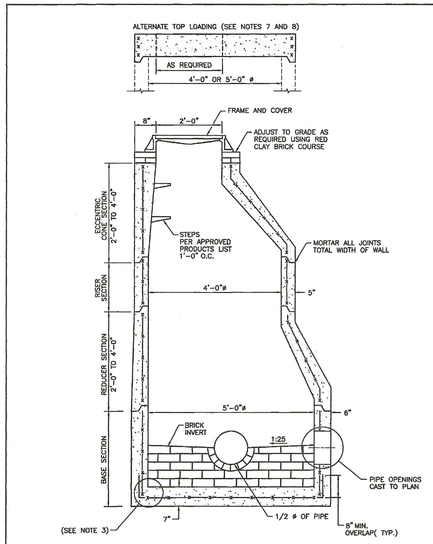
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS NO.	BY	DATE

PRECAST 4'-0" ROUND MANHOLE

JUNE 15, 1998 (ISSUE DATE)

R.I. STANDARD 4.2.0



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.

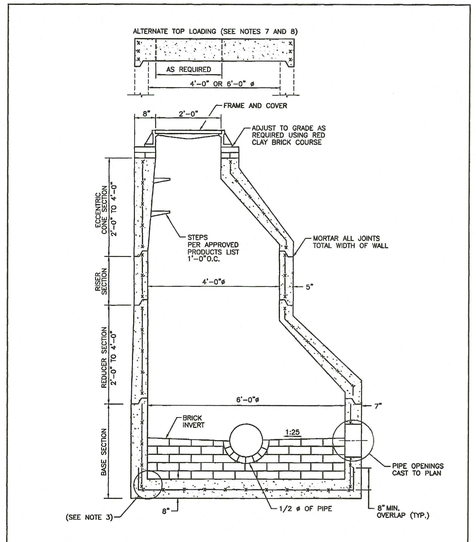
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS NO.	BY	DATE

PRECAST 5'-0" ROUND MANHOLE

JUNE 15, 1998 (ISSUE DATE)

R.I. STANDARD 4.2.1



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

REVISIONS NO.	BY	DATE

PRECAST 6'-0" ROUND MANHOLE

JUNE 15, 1998 (ISSUE DATE)

R.I. STANDARD 4.2.2

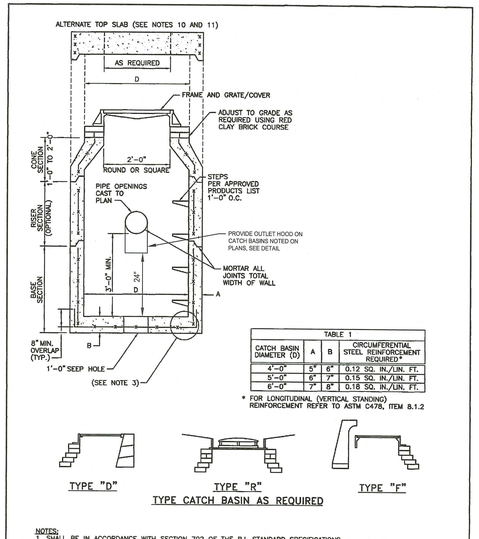


TABLE 1 CATCH BASIN DIAMETER (D)	A	B	CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED*
4'-0"	5"	6"	0.12 SQ. IN./LIN. FT.
5'-0"	6"	7"	0.15 SQ. IN./LIN. FT.
6'-0"	7"	8"	0.18 SQ. IN./LIN. FT.

* 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 "F" 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

REVISIONS NO.	BY	DATE

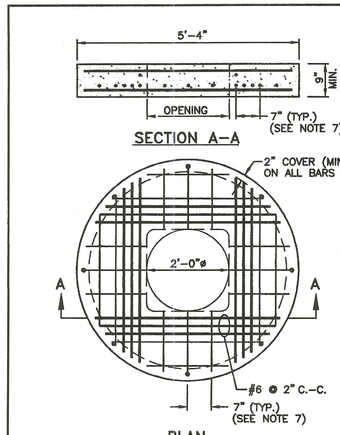
PRECAST 4'-0", 5'-0", OR 6'-0" ROUND CATCH BASIN

JUNE 15, 1998 (ISSUE DATE)

R.I. STANDARD 4.4.0M

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: DEC 28 2023 FILE #: 23-0151
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Environmental Management
NOV 28 2023
Office of Water Resources



NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
2. THE CENTERLINE OF THE OPENING MUST BE WITHIN 2'-0" FROM THE STEPS.
3. TOP SLAB HAS BEEN REINFORCED TO MEET OR EXCEED H-25 OR HS-25 LOADINGS WITH EARTH PRESSURES INCLUDED. THIS IMPLIES THAT THE TOP SLAB IS DESIGNED FOR AXLE LOADS OF NO MORE THAN 20 TONS.
4. ALL REBARS ARE TO HAVE A MINIMUM 2" CLEARENCE FROM OPENING.
5. PRECAST SECTION SHALL BE LIFTED USING APPROVED LIFTING LUGS LOCATED SUCH THAT NO DAMAGE TO THE SLAB OCCURS.
6. DOWEL HOLES IN COVER TO BE FORMED OR CORED BY THE FABRICATOR.
7. ALL REBARS IN THE BOTTOM MAT ARE #5 @ 7", BOTH WAYS, WITH 2" MINIMUM COVER, EXCEPT FOR REBARS ADJACENT TO THE OPENING. THESE REBARS SHALL BE #6 (SHOWN WITH HEAVIER LINE FOR CLARITY). REBARS IN THE TOP MAT ARE #6 BARS PLACED ADJACENT TO THE OPENING, BOTH WAYS, WITH 2" MINIMUM COVER.

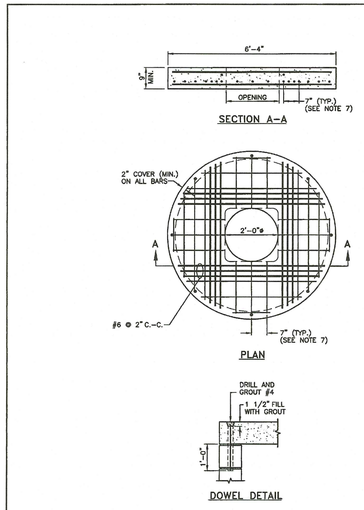
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS NO.	BY	DATE

CONCRETE COVER FOR SHALLOW 4'-0" ROUND MANHOLES

JUNE 15, 1998 (ISSUE DATE)

R.I. STANDARD 4.6.0



NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
2. THE CENTERLINE OF THE OPENING MUST BE WITHIN 2'-0" FROM THE STEPS.
3. TOP SLAB HAS BEEN REINFORCED TO MEET OR EXCEED H-25 OR HS-25 LOADINGS WITH EARTH PRESSURES INCLUDED. THIS IMPLIES THAT THE TOP SLAB IS DESIGNED FOR AXLE LOADS OF NO MORE THAN 20 TONS.
4. ALL REBARS ARE TO HAVE A MINIMUM 2" CLEARENCE FROM OPENING.
5. PRECAST SECTION SHALL BE LIFTED USING APPROVED LIFTING LUGS LOCATED SUCH THAT NO DAMAGE TO THE SLAB OCCURS.
6. DOWEL HOLES IN COVER TO BE FORMED OR CORED BY THE FABRICATOR.
7. ALL REBARS IN THE BOTTOM MAT ARE #5 @ 7", BOTH WAYS, WITH 2" MINIMUM COVER, EXCEPT FOR REBARS ADJACENT TO THE OPENING. THESE REBARS SHALL BE #6 (SHOWN WITH HEAVIER LINE FOR CLARITY). REBARS IN THE TOP MAT ARE #6 BARS PLACED ADJACENT TO THE OPENING, BOTH WAYS, WITH 2" MINIMUM COVER.

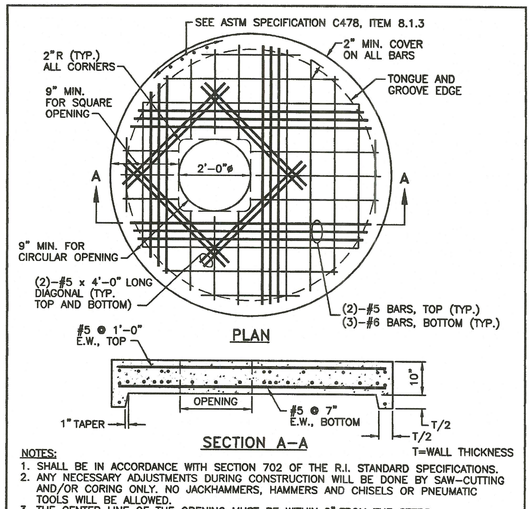
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS NO.	BY	DATE

CONCRETE COVER FOR SHALLOW 5'-0" ROUND MANHOLES

JUNE 15, 1998 (ISSUE DATE)

R.I. STANDARD 4.6.1



NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
2. 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.
3. THE CENTER LINE OF THE OPENING MUST BE WITHIN 2" FROM THE STEPS.
4. ALTERNATE TOP COVER IS STEEL REINFORCED TO MEET OR EXCEED H-25 OR HS-25 LOADINGS WITH EARTH PRESSURES INCLUDED. THIS IMPLIES THAT THE TOP SLAB IS DESIGNED FOR AXLE LOADS OF NO MORE THAN 20 TONS.
5. ALL REBAR SHALL HAVE A MINIMUM OF 2" CLEARANCE FROM OPENING.
6. ALL REBARS IN THE BOTTOM MAT ARE #5 @ 2", BOTH WAYS, WITH 2" MINIMUM COVER, EXCEPT FOR REBARS ADJACENT TO THE OPENING. THESE BARS SHALL BE (3)-#6 SHOWN WITH A HEAVIER LINE FOR CLARITY). REBARS IN THE TOP MAT ARE #5 @ 1'-0", BOTH WAYS, WITH 2" MINIMUM COVER, EXCEPT FOR REBARS ADJACENT TO THE OPENING. THESE BARS SHALL BE (2)-#5 BARS.

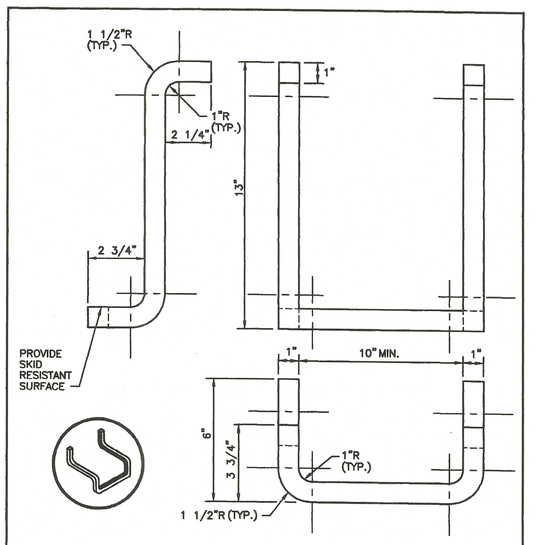
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS NO.	BY	DATE

ALTERNATE TOP COVER FOR ROUND PRECAST MANHOLES AND CATCH BASINS

JUNE 15, 1998 (ISSUE DATE)

R.I. STANDARD 4.7.2



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

REVISIONS NO.	BY	DATE

CATCH BASIN AND MANHOLE STEP

JUNE 15, 1998 (ISSUE DATE)

R.I. STANDARD 5.3.0

PARE

EDWARD R. MARTIN MIDDLE SCHOOL EAST PROVIDENCE, RHODE ISLAND

Ai3 ARCHITECTS

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 33-07 & 33-15

DAVID L. POTTER
No. 8665
09.27.23
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:

1	09/27/23	RIDEM RTC

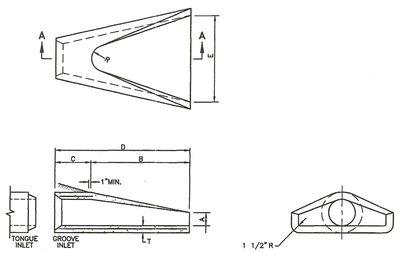
PROJECT NO.:	22037.05
DATE:	JUNE 30, 2023
SCALE:	NTS
DESIGNED BY:	NC/CH
CHECKED BY:	NC/CH
DRAWN BY:	SETB
APPROVED BY:	DLP

DRAWING TITLE: Details - 5

DRAWING NO.: C6.5

SHEET NO. 17 OF ~~24~~ 26

Y:\22037.22 - John\22037.05 (P. Smoot-Martin Middle Sch. Design-ltr)\DWG\Details.dwg



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"	8'–1 3/4"	6'–0"	1'–8"	4"	0.096
3'–6"	1'–9"	5'–3"	2'–11"	8'–2"	6'–6"	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.

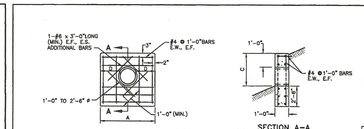
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

PRECAST CONCRETE FLARED END SECTION

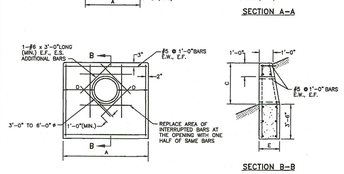
JUNE 15, 1998

R.I. STANDARD 2.3.0

REVISIONS		
NO.	BY	DATE



SECTION A–A



SECTION B–B

DIAMETER OF PIPE	A	C	D	E	CU. FT. CONCRETE
1'–0"	3'–0"	2'–0"	1'–0"	–	13.2
1'–3"	3'–9"	2'–0"	1'–3"	–	17.2
1'–6"	4'–6"	2'–0"	1'–6"	–	21.5
1'–9"	5'–3"	2'–1"	1'–9"	–	26.0
2'–0"	6'–0"	3'–2"	2'–0"	–	30.9
2'–3"	6'–9"	3'–2"	2'–3"	–	36.5
2'–6"	7'–6"	3'–3"	2'–6"	–	42.0
2'–9"	8'–6"	4'–0"	2'–3"	1'–0"	84.1
3'–6"	11'–0"	4'–0"	2'–9"	1'–7"	111.8
4'–0"	12'–8"	5'–0"	4'–4"	1'–9"	146.5
4'–6"	14'–4"	5'–0"	4'–11"	1'–11"	188.3
5'–0"	16'–0"	6'–0"	5'–6"	2'–1"	232.6
5'–6"	17'–8"	6'–0"	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. ALL REINFORCING BARS SHALL BE GRADE 60 MINIMUM.
4. ALL REINFORCING BARS SHALL BE EPOXY COATED.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

CONCRETE HEADWALLS FOR PIPE CULVERTS

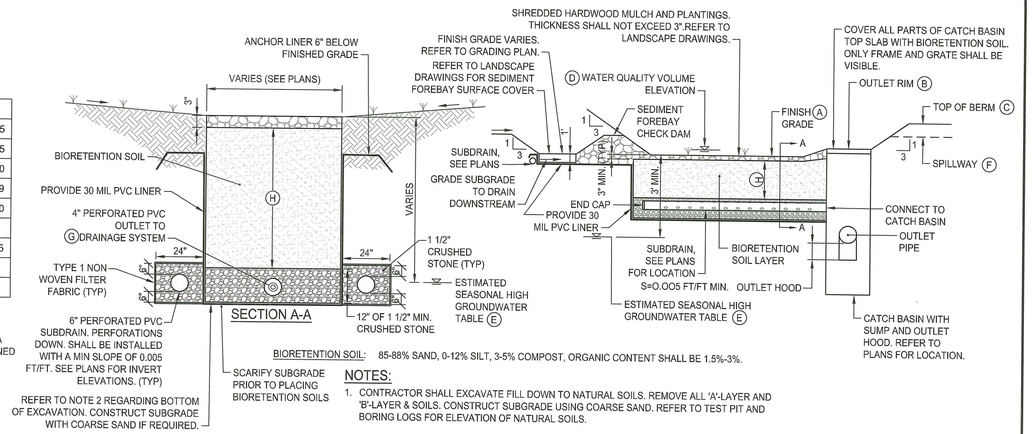
JUNE 15, 1998

R.I. STANDARD 7.1.1

REVISION NO.	BY	DATE

BIO	1	2	3
A	38.00	39.65	41.45
B	39.10	40.15	41.95
C	42.00	41.00	42.00
D	39.03	39.83	31.09
E	42.00	40.27	43.50
F	40.50	-	-
G	35.40	37.05	38.85
H	24"	24"	24"
*SUB	Y	Y	Y

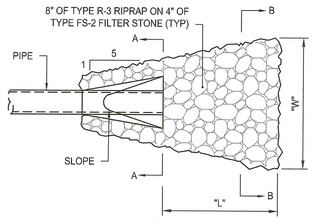
* SUB=SUBDRAIN, ALL BIORETENTION AREAS WITH A SUBDRAIN SHALL ALSO BE LINED WITH 30 MIL PVC BARRIER.



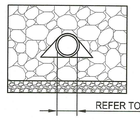
BIORETENTION SOIL: 85-88% SAND, 0-12% SILT, 3-5% COMPOST, ORGANIC CONTENT SHALL BE 1.5%-3%.

NOTES:
1. CONTRACTOR SHALL EXCAVATE FILL DOWN TO NATURAL SOILS. REMOVE ALL 'A'-LAYER AND 'B'-LAYER & SOILS. CONSTRUCT SUBGRADE USING COARSE SAND. REFER TO TEST PIT AND BORING LOGS FOR ELEVATION OF NATURAL SOILS.

BIORETENTION DETAIL
NOT TO SCALE



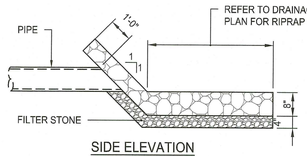
PLAN



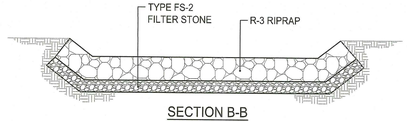
SECTION A-A

REFER TO DRAINAGE & UTILITY PLANS FOR DIAMETER

FES	L	W	D
1	8.0'	11.3'	18"
2	8.0'	11.3'	18"
3	5.0'	6.3'	24"
4	4.0'	5.7'	18"



SIDE ELEVATION



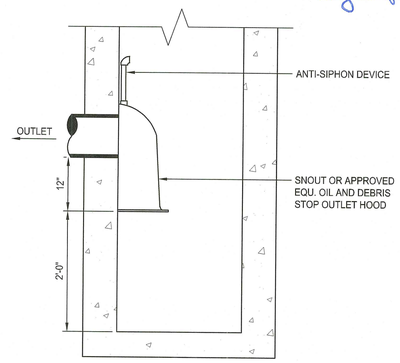
SECTION B-B

NOTE:
RIPRAP AND FILTER STONE SIZE TO BE DETERMINED

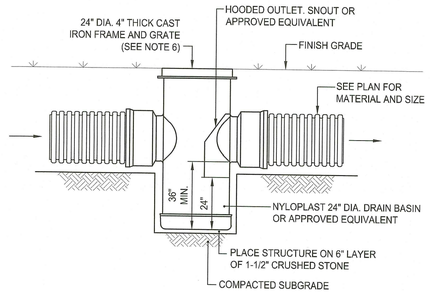
RIPRAP LEVEL SPREADER
NOT TO SCALE

Environmental Management
NOV 28 2023
Office of Water Resources

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: DEC 28 2023 FILE #: 23-0151
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

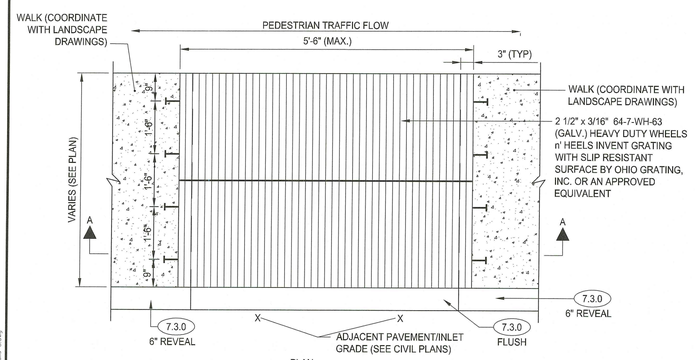


OUTLET HOOD DETAIL
NOT TO SCALE

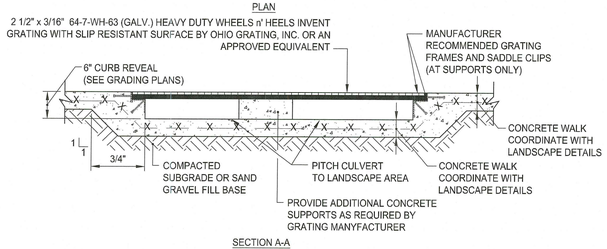


NOTES:
1. DRAIN BASIN SHALL BE CUSTOM MANUFACTURED FOR THE PROJECT WITH THE INLETS AND OUTLETS REQUIRED.
2. STRUCTURES SHALL BE CONSTRUCTED TO WITHSTAND LOADS IMPOSED BY CONSTRUCTION VEHICLES.
3. DRAIN BASIN SHALL BE CONSTRUCTED OF HIGH DENSITY POLYETHYLENE.
4. PROVIDE HOODED OUTLET ON ALL DRAIN BASINS
5. FRAME AND GRATE SHALL BE CONSTRUCTED OF DUCTILE IRON AND CONFORM TO ASTM A536 GRADE 70-50-05. PROVIDE NYLOPLAST S499CGS OR APPROVED EQUIVALENT.
6. PROVIDE DOME GRATE FOR AD-2 AND AD-4, NYLOPLAST 2499CGD OR APPROVED EQUIVALENT. SET TOP FRAME AT RIM ELEVATION

AREA DRAIN DETAIL
NOT TO SCALE



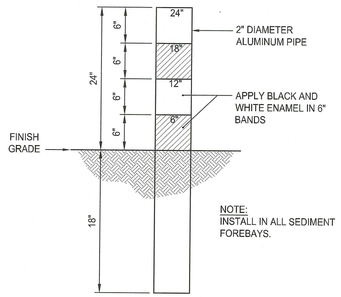
PLAN



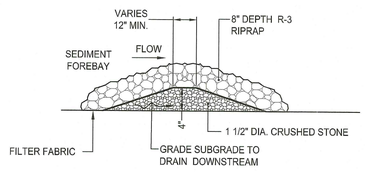
SECTION A-A

NOTE:
PROVIDE SUBMITTAL DEPICTING GRATE, CONCRETE WALK, SUPPORTS, AND OTHER INFORMATION FOR REVIEW BY OWNER'S REPRESENTATIVE

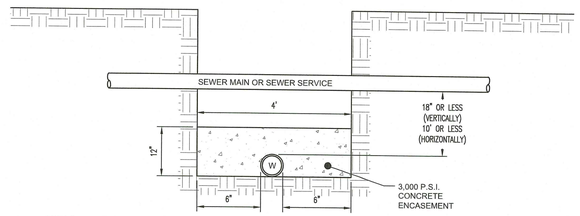
SIDEWALK GRATE
NOT TO SCALE



SEDIMENT MARKER DETAIL
NOT TO SCALE



SEDIMENT FOREBAY CHECK DAM
NOT TO SCALE



NOTES:
1. SEWER LINES CROSSING OVER WATER LINES SHALL BE CONCRETE ENCASED FOR 10 FEET ON EITHER SIDE OF CROSSING REGARDLESS OF VERTICAL SEPARATION DISTANCE.
2. SEWER LINES CROSSING UNDER WATER LINES SHALL BE CONSTRUCTED WITH A MINIMUM VERTICAL SEPARATION OF 18 INCHES. WHEN THIS CANNOT BE ACHIEVED, THE SEWER SHALL BE ENCASED IN CONCRETE FOR 10 FEET ON EITHER SIDE OF CROSSING.
3. ENCASEMENT SHALL BE A MINIMUM OF 6 INCHES AROUND THE SEWER LINES.

MINIMUM DISTANCES FOR SEWER AND WATER LINE CROSSINGS
NOT TO SCALE

PARE

EDWARD R. MARTIN MIDDLE SCHOOL EAST PROVIDENCE, RHODE ISLAND

AI3 ARCHITECTS

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 3307 & 3315

DAVID L. POTTER
No. 8665
11.27.23
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:		
1	09/27/23	RIDEM RTC
2	10/26/23	RIDEM RTC
3	11/27/23	RIDEM RTC

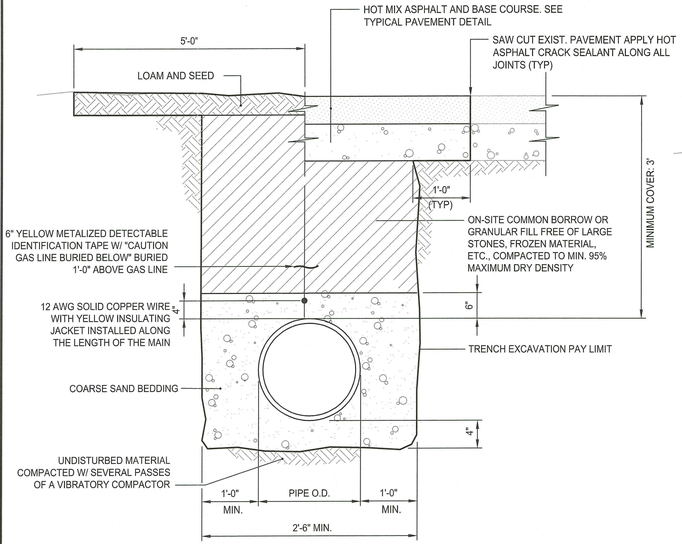
PROJECT NO.:	22037.05
DATE:	JUNE 30, 2023
SCALE:	NTS
DESIGNED BY:	NC/CH
CHECKED BY:	NC/CH
DRAWN BY:	SETB
APPROVED BY:	DLP

DRAWING TITLE:
Details - 6

DRAWING NO.:
C6.6

SHEET NO. 18 OF ~~24~~ 26

Y:\22037.22 John\22037.05 EP Schools-Martin Middle Site Design-RI\DWG\RIDEM RTC 2023-11-27\Details 6.dwg

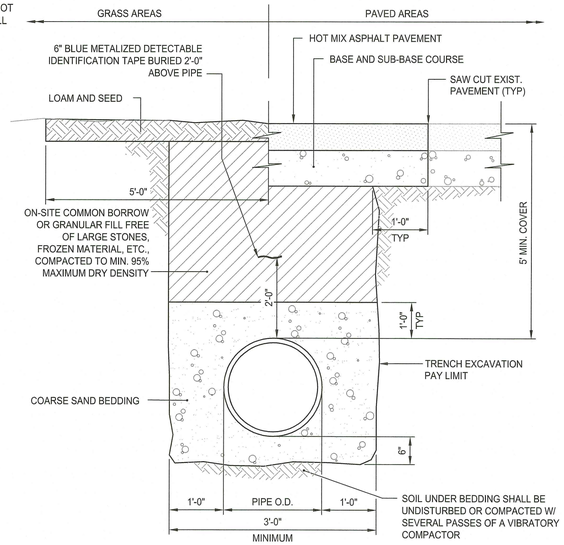


NOTES:

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. WHERE A SLEEVE IS INSTALLED, A TRACING WIRE SHALL BE INSTALLED OUTSIDE OF SLEEVE.
3. GAS TRENCH SHALL BE COORDINATED WITH REQUIREMENTS OF THE GAS COMPANY PRIOR TO COMMENCING WORK.

GAS TRENCH DETAIL

NOT TO SCALE

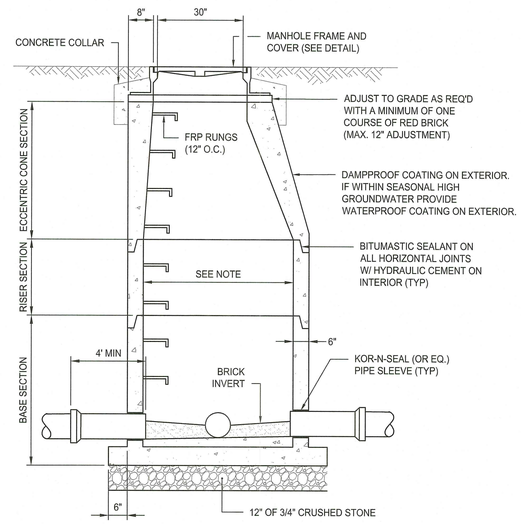


NOTES:

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

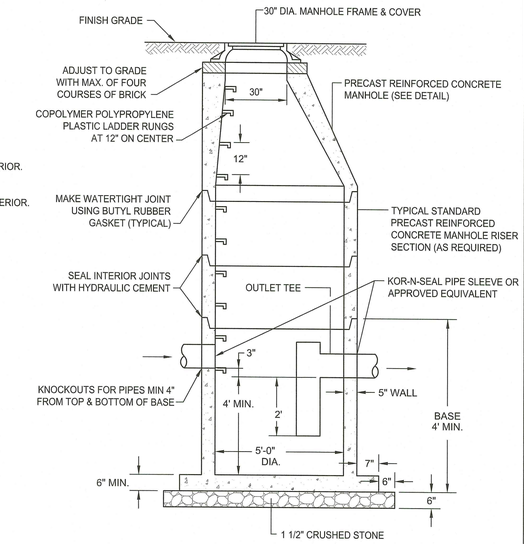


NOTE:

SEWER MANHOLES SHALL HAVE 4' MINIMUM INSIDE DIAMETER AND BE H-20 RATED. REFER TO PLANS FOR DIAMETER.

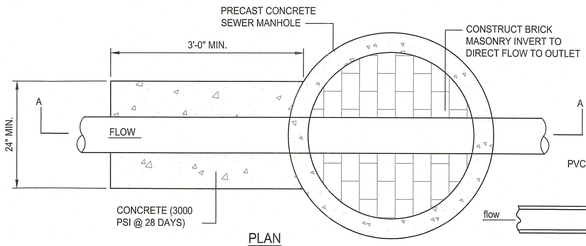
GRAVITY SEWER MANHOLE

NOT TO SCALE

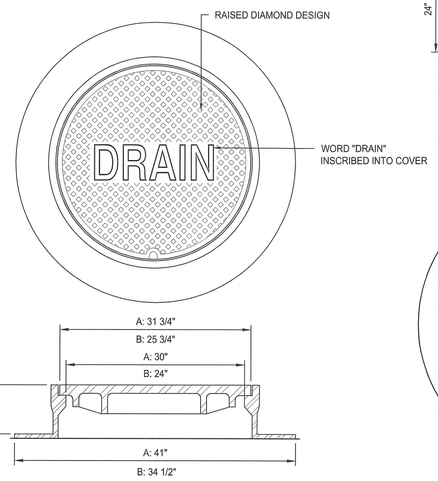


PRECAST CONCRETE OIL WATER SEPARATOR (OWS)

NOT TO SCALE



PLAN

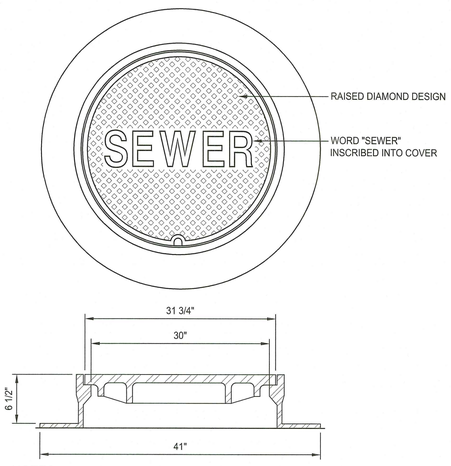


NOTES:

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

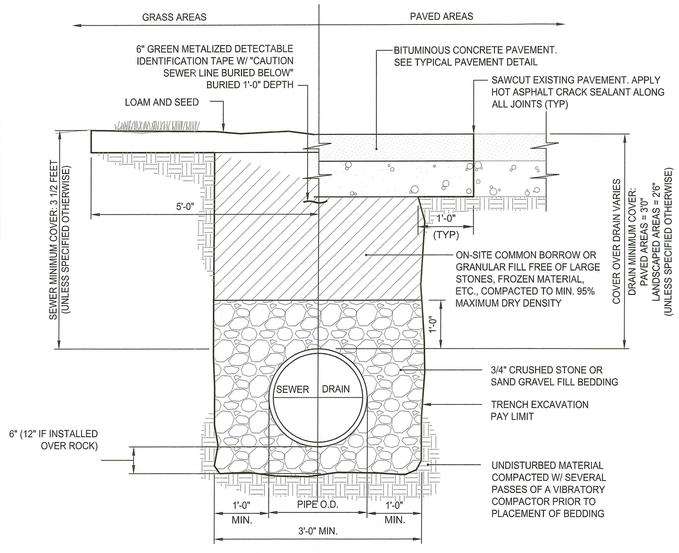


NOTES:

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

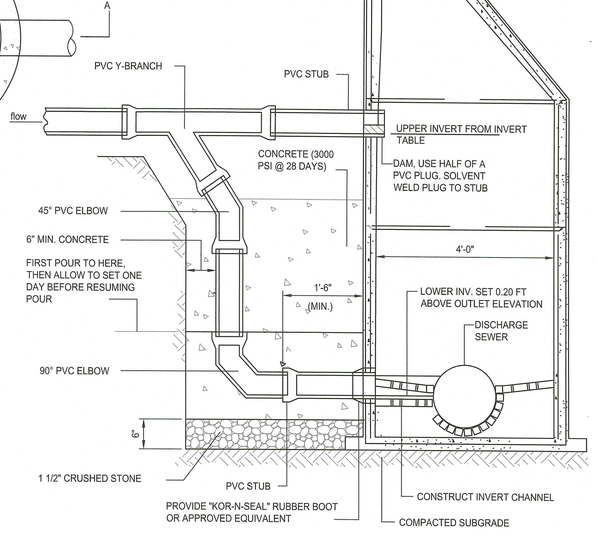


NOTES:

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



SECTION A-A

OUTSIDE DROP MANHOLE DETAIL

NOT TO SCALE

Environmental Management
NOV 28 2023
Office of Water Resources

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: DEC 28 2023 FILE #: 23-0157
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

PARE

EDWARD R. MARTIN MIDDLE SCHOOL FAST PROVIDENCE, RHODE ISLAND

AI3 ARCHITECTS

Edward R. Martin Middle School

111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 3307 & 3315

DAVID L. POTTER
No. 8665
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
09.27.23

REVISIONS:

1	09/27/23	RIDEM RTC

PROJECT NO.:	22037.05
DATE:	JUNE 30, 2023
SCALE:	NTS
DESIGNED BY:	NC/CH
CHECKED BY:	NC/CH
DRAWN BY:	SETB
APPROVED BY:	DLP

DRAWING TITLE:

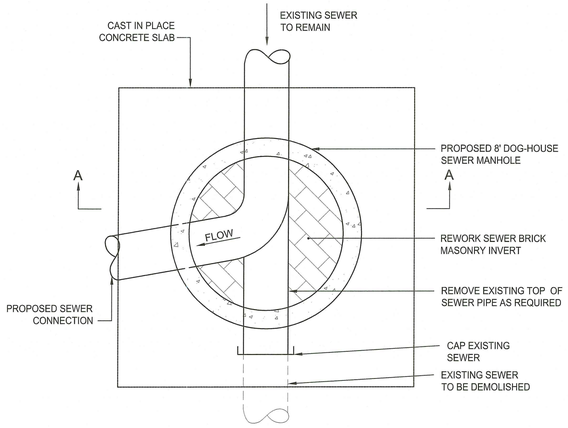
Details - 7

DRAWING NO.:

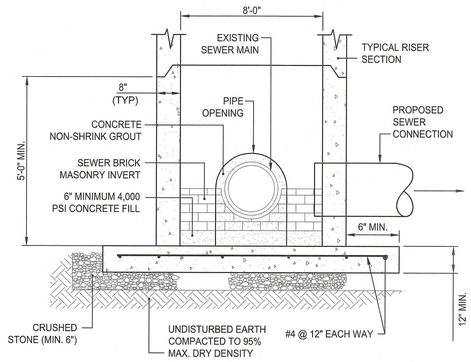
C6.7

SHEET NO. 19 OF ~~24~~ 26

H:\JOBS\22037.05 - Martin\22037.05 EP - Edmund R. Martin Middle Site Design - RI\DWGS\Details.dwg



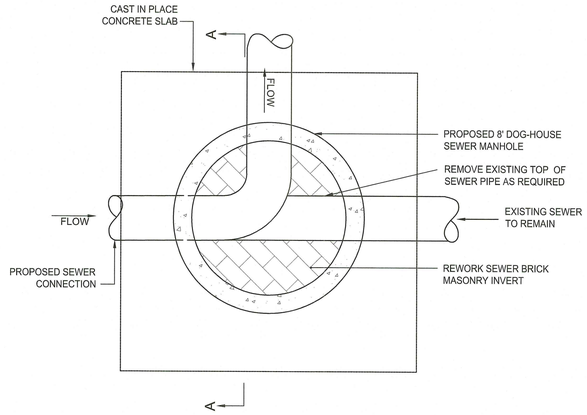
PLAN



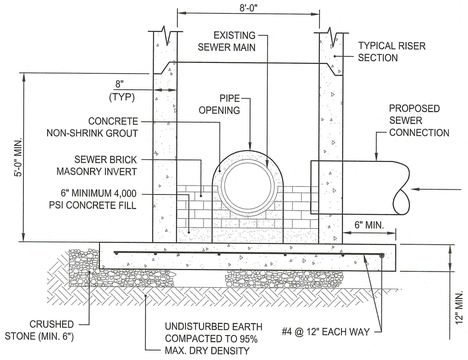
SECTION A-A

DOG-HOUSE MANHOLE BASE (SMH-01)

NOT TO SCALE



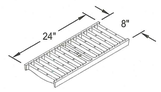
PLAN



SECTION A-A

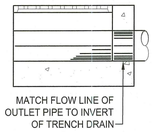
DOG-HOUSE MANHOLE BASE (SMH-06)

NOT TO SCALE



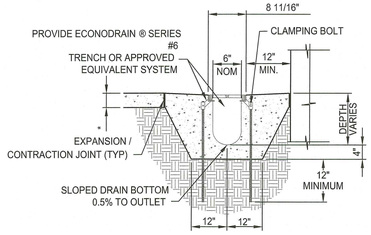
- STANDARD -
H-20 CAST IRON GRATE
55% OPEN AREA
65.8 SQ. INCHES PER LINEAR FOOT

GRATE DETAIL



OUTLET FROM END OF TRENCH

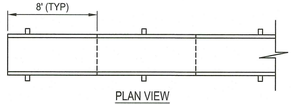
CONSTRUCTION NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
2. SECURE OUTLET PIPE PRIOR TO CONCRETING OPERATIONS.
3. TRENCH DRAIN AND GRATE SHALL BE RATED TO WITHSTAND H-20 LOADING CRITERIA.



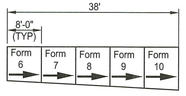
TRENCH DRAIN DETAIL

NOT TO SCALE

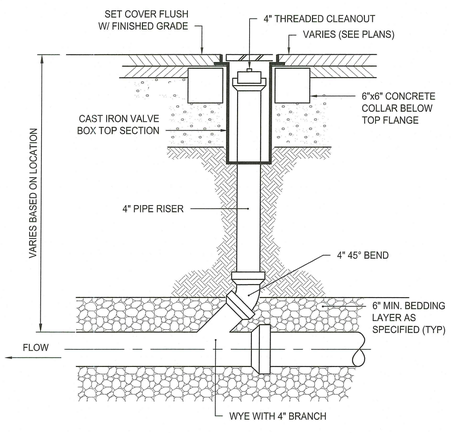
SHALLOW EPS FORMS		
EPS FORM	DEPTH MIN	MAX
06	6"	6 1/2"
07	6 1/2"	7"
08	7"	7 1/2"
09	7 1/2"	8"
10	8"	8 1/2"



PLAN VIEW

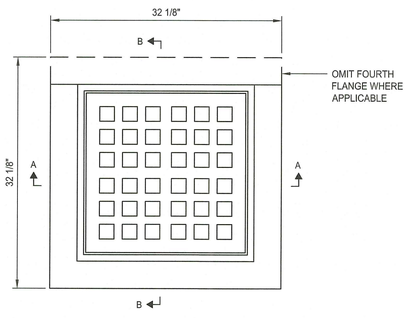


SECTION



CLEANOUT DETAIL

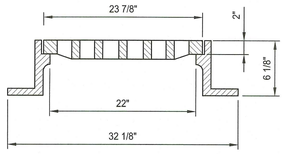
NOT TO SCALE



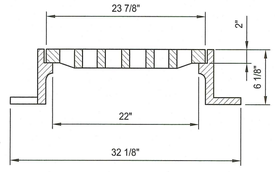
PLAN

NOTES:

1. NEENAH FOUNDRY R-3405-A OR APPROVED EQUIVALENT.
2. FRAME AND GRATE SHALL MEET H-20 LOADING CRITERIA.
3. PROVIDE U.S. FOUNDRY USD 4132 RING & 6001 GRATE ADA CATCH BASIN GRATE FOR CB-15 AND CB-26 OR APPROVED EQUIVALENT.
4. PROVIDE U.S. FOUNDRY USD 4132 RING & 6001 GRATE PEDESTRIAN CATCH BASIN GRATE FOR CB-11, CB-12, AND CB-13.



SECTION A-A



SECTION B-B

GENERAL NOTES:

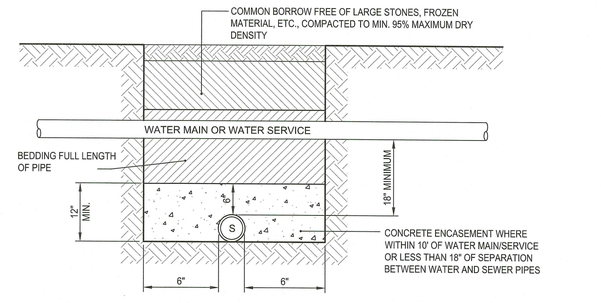
1. REINFORCING STEEL CONFORMS TO LATEST A.S.T.M. A 185 SPEC. 0.12 SQ. IN/LINEAL FT. AND 0.12 SQ. IN. (BOTH WAYS) BASE BOTTOM
2. CONC. MINIMUM COMPRESSIVE STRENGTH = 4000 PSI TYPE III CEMENT.
3. MANHOLE DESIGN SPECIFICATIONS CONFORM TO LATEST A.S.T.M. C 478 SPEC. FOR "PRECAST REINFORCED CONCRETE MANHOLE 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

Environmental Management
NOV 28 2023
Office of Water Resources

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: DEC 28 2023 FILE #: 23-0151
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



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

PARE

EDWARD R. MARTIN MIDDLE SCHOOL
FAST PROVIDENCE, RHODE ISLAND

AI3 ARCHITECTS

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 3307 & 3315

DAVID L. POTTER
No. 8665
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
09.27.23

REVISIONS:

1	09/27/23	RIDEM RTC

PROJECT NO.:	22037.05
DATE:	JUNE 30, 2023
SCALE:	NTS
DESIGNED BY:	NC/CH
CHECKED BY:	NC/CH
DRAWN BY:	SETB
APPROVED BY:	DLP

DRAWING TITLE:

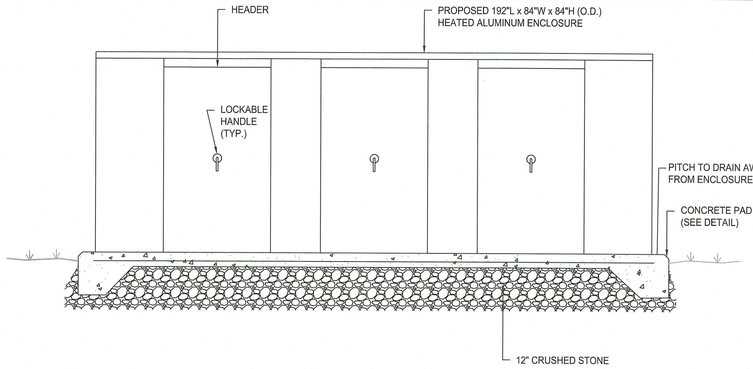
Details - 8

DRAWING NO.:

C6.8

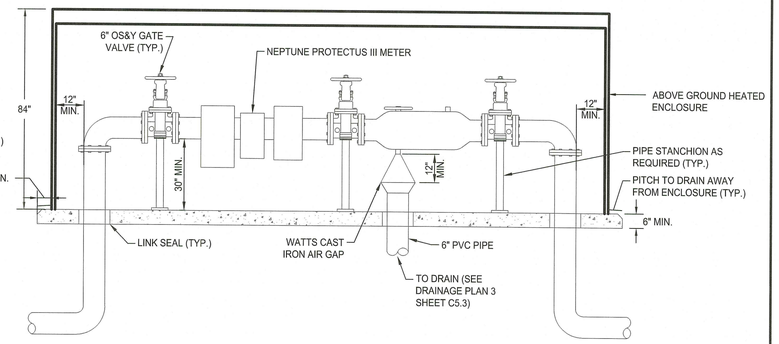
SHEET NO. 20 OF ~~26~~ 21

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HOTBOX ELEVATION VIEW

NOT TO SCALE

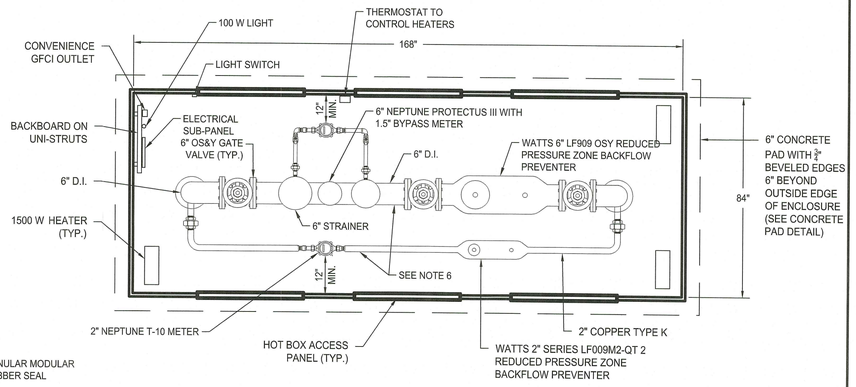


ABOVE GROUND HEATED ENCLOSURE SECTION A-A

NOT TO SCALE

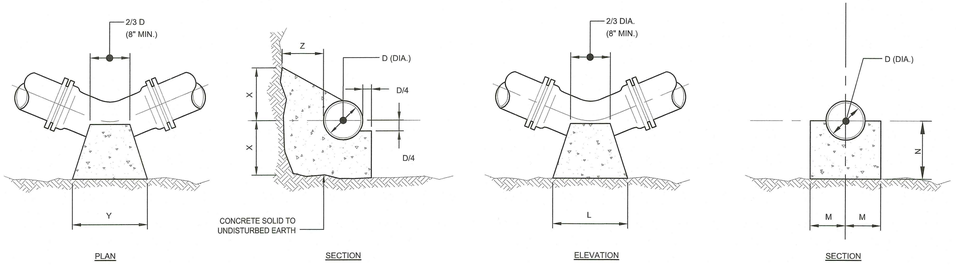
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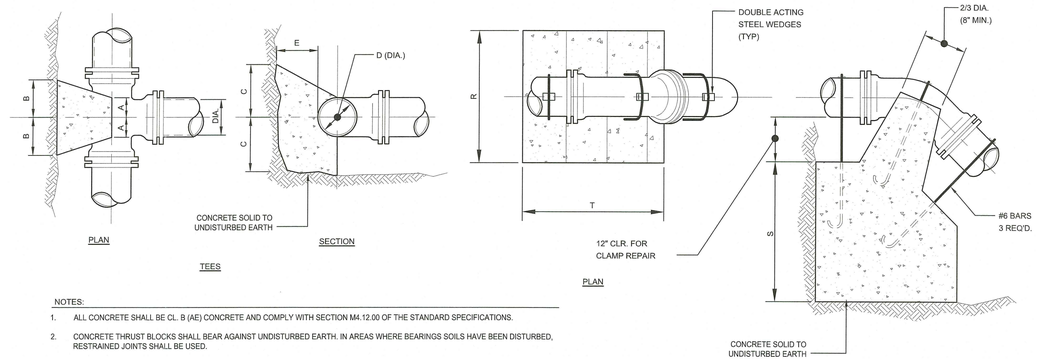
1. ALL INTERIOR PIPING SHALL BE CLASS 53 DUCTILE IRON WITH FLANGED JOINTS.
2. ALL BURIED PIPING SHALL BE CLASS 52 CEMENT-LINED DUCTILE IRON WITH MECHANICAL JOINTS.
3. ALL EXPOSED METAL SURFACES TO BE BONDED BY ELECTRICIAN PER NATIONAL ELECTRIC CODE.
4. CONTRACTOR SHALL SUPPORT ALL INTERIOR PIPING WITH 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.



ABOVE GROUND HEATED ENCLOSURE PLAN AND PROFILE

NOT TO SCALE





NOTES:

1. ALL CONCRETE SHALL BE CL. B (AE) CONCRETE AND COMPLY WITH SECTION M4.12.00 OF THE STANDARD SPECIFICATIONS.
2. CONCRETE THRUST BLOCKS SHALL BEAR AGAINST UNDISTURBED EARTH. IN AREAS WHERE BEARINGS SOILS HAVE BEEN DISTURBED, RESTRAINED JOINTS SHALL BE USED.

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"

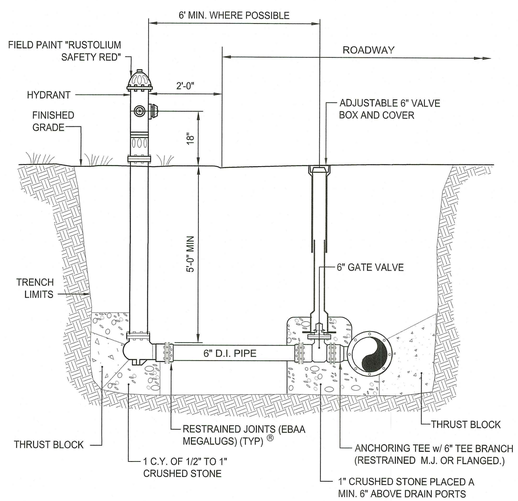
HORIZONTAL BENDS						
BEND		PIPE SIZE-D (DIA.)				
		6"	8"	12"	16"	20"
1/8	X	1'-0"	1'-0"	1'-0"	1'-3"	1'-6"
	Y	1'-0"	1'-6"	2'-0"	2'-6"	3'-0"
	Z	8"	10"	1'-2"	1'-4"	1'-6"
1/16	X	1'-0"	1'-0"	1'-0"	1'-3"	1'-6"
	Y	1'-0"	1'-4"	1'-6"	1'-9"	2'-6"
	Z	8"	10"	1'-2"	1'-4"	1'-6"
1/32	X	1'-0"	1'-0"	1'-0"	1'-2"	1'-4"
	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'-8"	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'-6"
	T	2'-0"	2'-6"	3'-0"	4'-6"	5'-9"

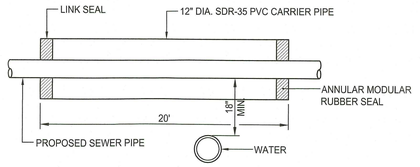
CONCRETE THRUST BLOCKS

NOT TO SCALE



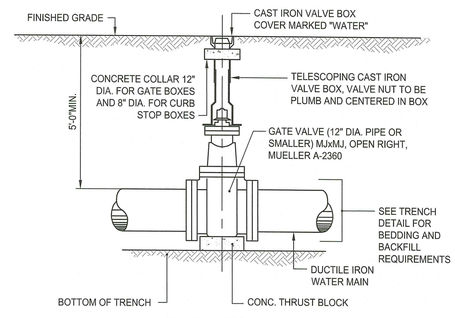
HYDRANT DETAIL

NOT TO SCALE



CARRIER PIPE DETAIL

NOT TO SCALE



VALVE BOX DETAIL

NOT TO SCALE

Environmental Management
NOV 2 6 2023
Office of Water Resources

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: DEC 2 8 2023 FILE #: 23-0151
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

PARE

EAST EDWARD R. MARTIN MIDDLE SCHOOL
EAST PROVIDENCE, RHODE ISLAND

AI3 ARCHITECTS

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 33-07 & 33-15

DAVID L. POTTER
No. 8665
REGISTERED
PROFESSIONAL ENGINEER
(CIVIL)
09.27.23

REVISIONS:

1	09/27/23	RIDEM RTC

PROJECT NO.:	22037.05
DATE:	JUNE 30, 2023
SCALE:	NTS
DESIGNED BY:	NC/CH
CHECKED BY:	NC/CH
DRAWN BY:	SETB
APPROVED BY:	DLP

DRAWING TITLE:

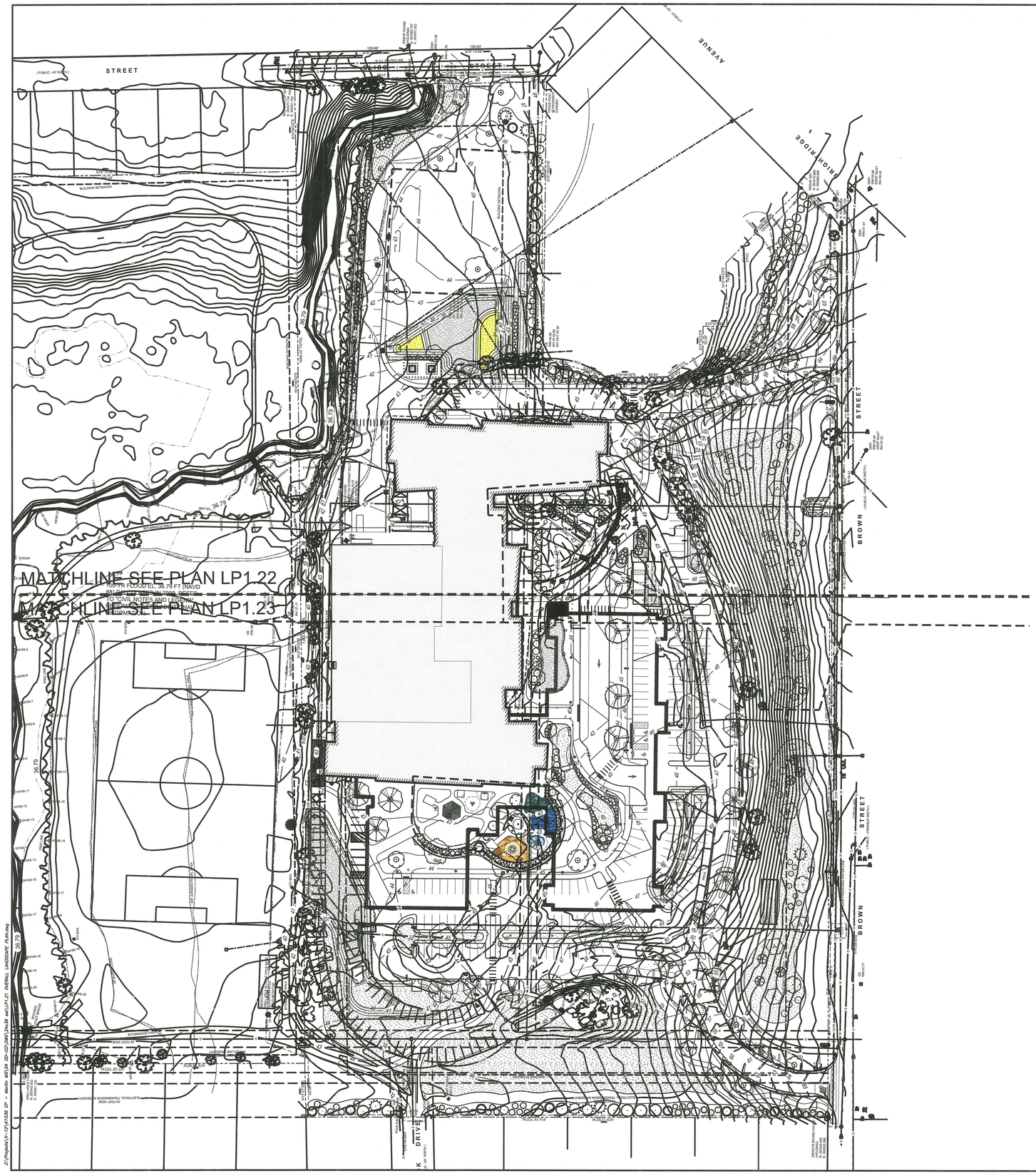
Details - 9

DRAWING NO.:

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SHEET NO. 21 OF ~~21~~ 26

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PLANT SCHEDULE

TREES	CODE	BOTANICAL / COMMON NAME	CONT	CAL	SIZE
	AN	Abies concolor / White Fir	B & B		6'-7' H
	AD	Acer rubrum `Autumn Red` / Autumn Red Maple	B & B	3"-3.5" Cal.	
	AO	Acer rubrum 'October Glory' / October Glory Red Maple	B & B	2.5-3" Cal.	
	AGAB	Amelanchier x grandiflora 'Autumn Brilliance' / Autumn Brilliance Apple Serviceberry	B&B		6'-7' H
	BC	Betula nigra 'Cully Improved' TM / Heritage Improved River Birch	B & B		10'-12'
	BW	Betula populifolia 'Whitespire' / Whitespire Gray Birch	B & B		10'-12'
	CA	Carpinus caroliniana / American Hornbeam	B&B	2"-2.5" Cal.	
	CC	Cercis canadensis 'Forest Pansy' / Forest Pansy Eastern Redbud	B & B	2"-2.5" Cal.	
	CO	Cornus florida `Cherokee Brave` / Cherokee Brave Dogwood	B&B		5/6'
	CV	Crataegus viridis 'Winter King' / Winter King Hawthorn	B & B	2"-2.5" Cal.	
	GH	Gleditsia triacanthos inermis 'Halka' / Halka Honey Locust	B & B	2.5-3" Cal.	
	HA	Hamamelis vernalis / Ozark Witchhazel	B & B		4'-5'
	HM	Hamamelis virginiana 'Sunglow' / Witchhazel Common	B & B		4'-5'
	JE	Juniperus virginiana 'Corcorcor' / Emerald Sentinel™ Eastern Redcedar	B & B		7'-8' H
	JI	Juniperus virginiana 'Idyllwild' / Idyllwild Eastern Redcedar	B & B		5'-6' H
	JM	Juniperus virginiana 'Manhattan Blue' / Manhattan Blue Eastern Redcedar	15 gal		6'-7' H
	MA	Magnolia virginiana / Sweetbay Magnolia	B&B		7'-8' H
	MG	Metasequoia glyptostroboides / Dawn Redwood	B & B		8'-10'
	NSW	Nyssa sylvatica 'Wildfire' / Wildfire Tupelo	B&B	2"-2.5" Cal.	
	OA	Oxydendrum arboreum / Sourwood Tree	B&B		6'-7' H
	PA	Prunus subhirtella 'Autumnalis' / Autumn Flowering Cherry	B&B	2"-2.5" Cal.	
	RG2	Rhus glabra / Smooth Sumac	15 gal		
	TP	Thuja occidentalis 'Hetz Wintergreen' / Hetz Wintergreen Arborvitae	B & B		6'-7' H
	TO	Thuja occidentalis 'Nigra' / Black Arborvitae	B & B		5'-6' H
	UP	Ulmus americana 'Princeton' / Princeton American Elm	B & B	2.5-3" Cal.	
	CL	x Cupressocyparis leylandii / Leyland Cypress	B&B		8'-10'

SHRUBS	CODE	BOTANICAL / COMMON NAME	CONT	SIZE
	Ap	Aesculus parviflora / Bottlebrush Buckeye	#5	4'-5' H
	Ama	Aronia melanocarpa `Autumn Magic` / Autumn Magic Black Chokeberry	#3	2'-3' H
	CD	Cephalotaxus harringtonia `Duke Gardens` / Duke Gardens Plum Yew	#5	
	Cl	Clethra alnifolia 'Sixteen Candles' / Sixteen Candles Summersweet	#3	
	Cs	Cornus sericea `Artic Fire` / Artic Fire Dogwood	#3	
	He	Hydrangea macrophylla 'Endless Summer' TM / Endless Summer Hydrangea	#5	
	Hqf	Hydrangea paniculata 'SMHPLQF' / Little Quick Fire® Panicle Hydrangea	3 gal	
	Ig	Ilex glabra 'Shamrock' / Shamrock Inkberry Holly	#5	
	Iv2	Ilex verticillata 'Red Sprite' / Red Sprite Winterberry	#5	
	Mc	Microbiota decussata 'Prides' / Celtic Pride® Siberian Carpet Cypress	#3	
	Ps	Physocarpus opulifolius 'Seward' / Summer Wine® Ninebark	#3	
	PL	Prunus laurocerasus 'Otto Luyken' / Otto Luyken English Laurel	B & B	30"-36"
	Rr	Rhododendron maximum 'Roseum Bluestem' / Pink Rosebay Rhododendron	B & B	30"-36"
	Rg	Rhus aromatica 'Gro-Low' / Gro-Low Fragrant Sumac	#3	
	Vd	Viburnum dentatum 'Blue Muffin' / Blue Muffin Arrowwood Viburnum	#5	

SEED MIXES	CODE	BOTANICAL / COMMON NAME	CONT
	Sw	- - / BIO-RETENTION SEED MIX	seed
	Rs	- - / RESTORATION SEED MIX	seed
	Ns	- - / WILDFLOWER SEED MIX	seed

0 60 120 180 240 feet

1" = 60'

N

Environmental Management
DEC 21 2023
Office of Water Resources

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

APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: DEC 28 2023 FILE #: 23-0157
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

PARE

TRAVERSE landscape architects

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 33-07 & 33-15

DEC 21 2023

REGISTERED LANDSCAPE ARCHITECT
KIRK MITCHELL BRADNER
No. 428

REVISIONS:

PROJECT NO.:	K1036
DATE:	JUNE 2023
SCALE:	1"=60'
DESIGNED BY:	SD
CHECKED BY:	AE
DRAWN BY:	JF/SD
APPROVED BY:	AE

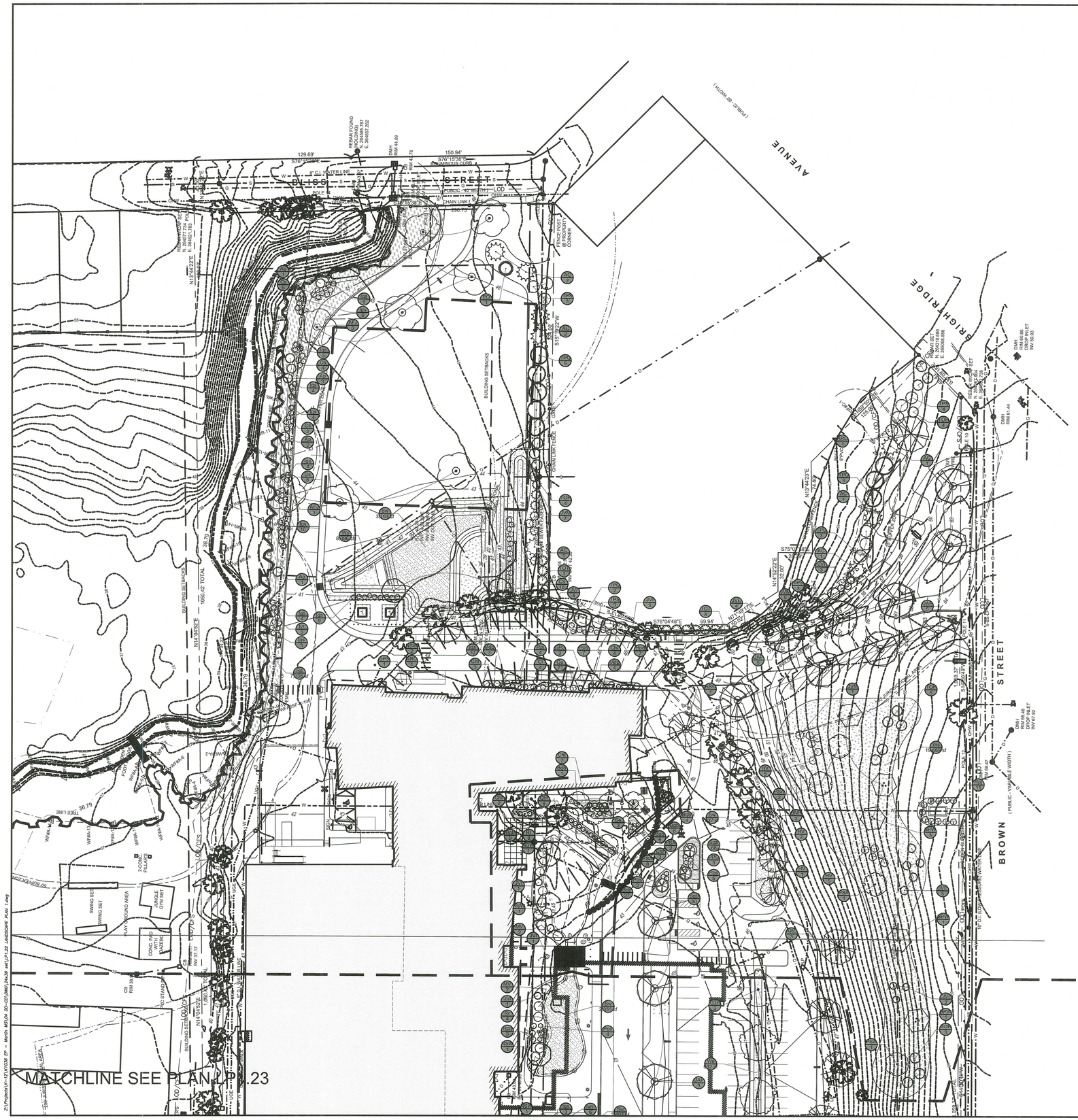
DRAWING TITLE:

OVERALL PLANTING PLAN

DRAWING NO.:

LP1.21

SHEET NO. 22 OF 26 ~~24~~



PLANT SCHEDULE LP1.22

TREES	CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL	SIZE
	AN	8	Abies concolor / White Fir	B & B		6'-7" H
	AD	7	Acer rubrum `Autumn Red` / Autumn Red Maple	B & B	3"-3.5" Cal.	
	AGAB	5	Amelanchier x grandiflora 'Autumn Brilliance' / Autumn Brilliance Apple Serviceberry	B&B		6'-7" H
	BC	13	Betula nigra 'Cully Improved' TM / Heritage Improved River Birch	B & B		10'-12'
	BW	6	Betula populifolia 'Whitespire' / Whitespire Gray Birch	B & B		10'-12'
	CA	8	Carpinus caroliniana / American Hornbeam	B&B	2"-2.5" Cal.	
	CC	3	Cercis canadensis 'Forest Pansy' / Forest Pansy Eastern Redbud	B & B	2"-2.5" Cal.	
	CO	2	Cornus florida `Cherokee Brave` / Cherokee Brave Dogwood	B&B		5/6'
	CV	2	Crataegus viridis 'Winter King' / Winter King Hawthorn	B & B	2"-2.5" Cal.	
	GH	6	Gleditsia triacanthos inermis 'Halka' / Halka Honey Locust	B & B	2.5-3" Cal.	
	HA	20	Hamamelis vernalis / Ozark Witchhazel	B & B		4'-5'
	HM	3	Hamamelis virginiana 'Sunglow' / Witchhazel Common	B & B		4'-5'
	JE	21	Juniperus virginiana 'Corcorcor' / Emerald Sentinel™ Eastern Redcedar	B & B		7'-8' H
	JI	22	Juniperus virginiana 'Idyllwild' / Idyllwild Eastern Redcedar	B & B		5'-6' H
	JM	30	Juniperus virginiana 'Manhattan Blue' / Manhattan Blue Eastern Redcedar	15 gal		6'-7" H
	MA	3	Magnolia virginiana / Sweetbay Magnolia	B&B		7'-8' H
	OA	1	Oxydendron arboreum / Sourwood Tree	B&B		6'-7' H
	PA	3	Prunus subhirtella 'Autumnalis' / Autumn Flowering Cherry	B&B	2"-2.5" Cal.	
	TP	22	Thuja occidentalis 'Hetz Wintergreen' / Hetz Wintergreen Arborvitae	B & B		6'-7" H
	UP	10	Ulmus americana 'Princeton' / Princeton American Elm	B & B	2.5-3" Cal.	
	CL	14	x Cupressocyparis leylandii / Leyland Cypress	B&B		8'-10'

SHRUBS	CODE	QTY	BOTANICAL / COMMON NAME	CONT	SIZE
	Ap	8	Aesculus parviflora / Bottlebrush Buckeye	#5	4'-5' H
	Ama	3	Aronia melanocarpa `Autumn Magic` / Autumn Magic Black Chokeberry	#3	2'-3' H
	CD	13	Cephalotaxus harringtonia `Duke Gardens` / Duke Gardens Plum Yew	#5	
	Cl	34	Clethra alnifolia 'Sixteen Candles' / Sixteen Candles Summersweet	#3	
	Cs	50	Cornus sericea `Artic Fire` / Artic Fire Dogwood	#3	
	He	28	Hydrangea macrophylla 'Endless Summer' TM / Endless Summer Hydrangea	#5	
	Ig	91	Ilex glabra 'Shamrock' / Shamrock Inkberry Holly	#5	
	Iv2	23	Ilex verticillata 'Red Sprite' / Red Sprite Winterberry	#5	
	Mc	7	Microbiota decussata 'Prides' / Celtic Pride® Siberian Carpet Cypress	#3	
	Ps	12	Physocarpus opulifolius 'Seward' / Summer Wine® Ninebark	#3	
	PL	20	Prunus laurocerasus 'Otto Luyken' / Otto Luyken English Laurel	B & B	30"-36"
	Rr	8	Rhododendron maximum 'Roseum Bluestem' / Pink Rosebay Rhododendron	B & B	30"-36"
	Rg	30	Rhus aromatica 'Gro-Low' / Gro-Low Fragrant Sumac	#3	

SEED MIXES	CODE	QTY	BOTANICAL / COMMON NAME	CONT
	Sw	16,641 sf	- - / BIO-RETENTION SEED MIX	seed
	Rs	7,363 sf	- - / RESTORATION SEED MIX	seed
	Ns	21,603 sf	- - / WILDFLOWER SEED MIX	seed

0 40 80 120 160 feet

1" = 40'

N

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: DEC 28 2023 FILE #: 23-0151
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE

PARE

TRAVERSE landscape architects

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 33-07 & 33-15

RECEIVED
DEC 21 2023
RI Environmental Management

REGISTERED LANDSCAPE ARCHITECT
MITCHELL BRADNER
No. 428

REVISIONS:

PROJECT NO.:	K1036
DATE:	JUNE 2023
SCALE:	1"=40'
DESIGNED BY:	SD
CHECKED BY:	AE
DRAWN BY:	JF/SD
APPROVED BY:	AE

DRAWING TITLE:

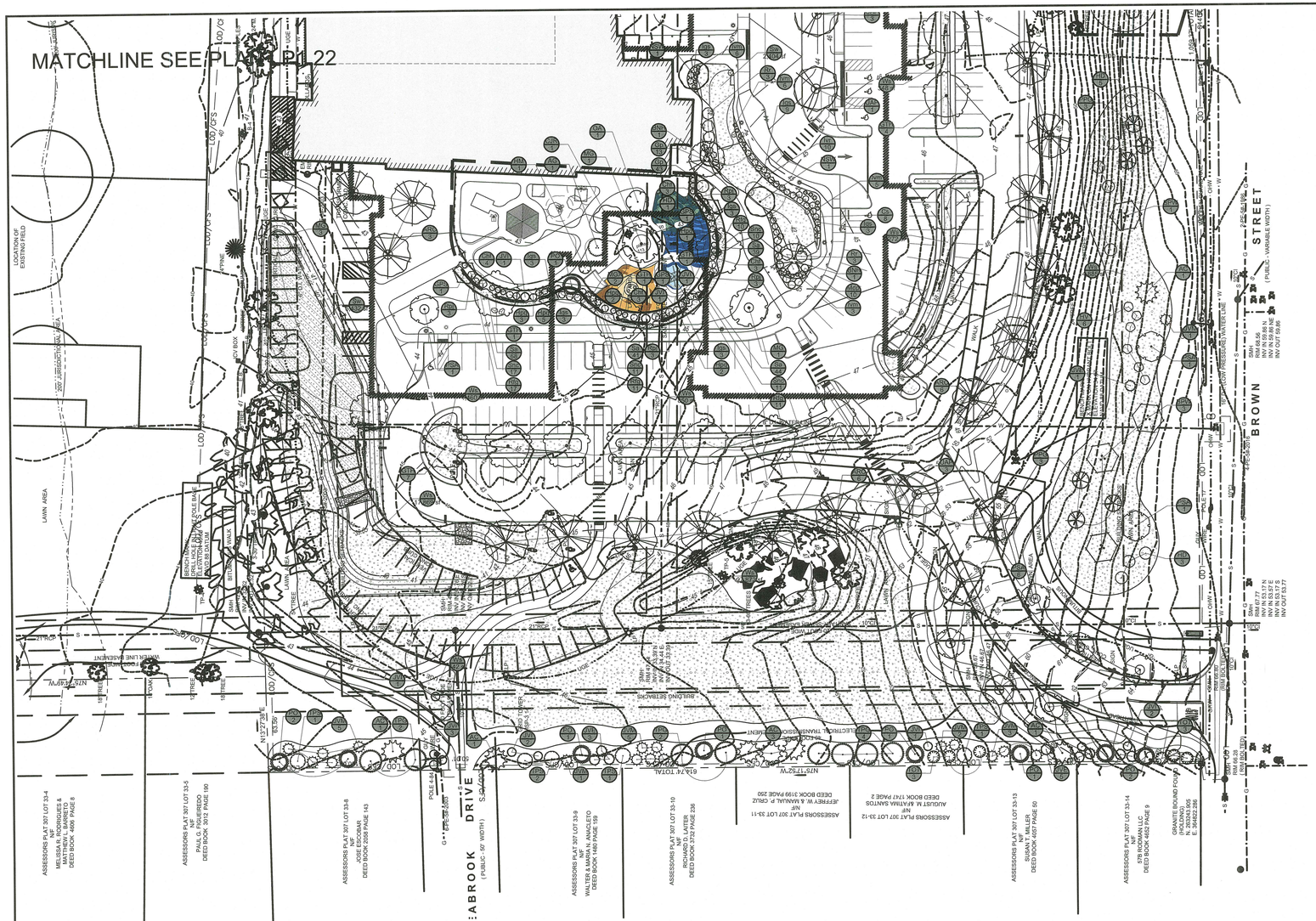
PLANTING PLAN

DRAWING NO.:

LP1.22

SHEET NO. 23 OF ~~21~~ 26

Z:\Projects\K-12\K1036 EP - Martin MS\04 SD-DD\DWG\24x36 set\LP1.22 LANDSCAPE PLAN 1.dwg



PLANT SCHEDULE LP1.23

TREES	CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL	SIZE
	AN	7	Abies concolor / White Fir	B & B		6'-7" H
	AD	3	Acer rubrum 'Autumn Red' / Autumn Red Maple	B & B	3"-3.5" Cal.	
	AO	6	Acer rubrum 'October Glory' / October Glory Red Maple	B & B	2.5-3" Cal.	
	AGAB	10	Amelanchier x grandiflora 'Autumn Brilliance' / Autumn Brilliance Apple Serviceberry	B&B		6'-7" H
	BC	1	Betula nigra 'Cully Improved' TM / Heritage Improved River Birch	B & B		10'-12'
	BW	7	Betula populifolia 'Whitespire' / Whitespire Gray Birch	B & B		10'-12'
	CC	1	Cercis canadensis 'Forest Pansy' / Forest Pansy Eastern Redbud	B & B	2"-2.5" Cal.	
	CO	5	Cornus florida 'Cherokee Brave' / Cherokee Brave Dogwood	B&B		5/6'
	CV	5	Crataegus viridis 'Winter King' / Winter King Hawthorn	B & B	2"-2.5" Cal.	
	GH	13	Gleditsia triacanthos inermis 'Halka' / Halka Honey Locust	B & B	2.5-3" Cal.	
	HA	3	Hamamelis vernalis / Ozark Witchhazel	B & B		4'-5'
	JE	9	Juniperus virginiana 'Corcorcor' / Emerald Sentinel™ Eastern Redcedar	B & B		7'-8" H
	JI	14	Juniperus virginiana 'Idyllwild' / Idyllwild Eastern Redcedar	B & B		5'-6" H
	JM	1	Juniperus virginiana 'Manhattan Blue' / Manhattan Blue Eastern Redcedar	15 gal		6'-7" H
	MA	11	Magnolia virginiana / Sweetbay Magnolia	B&B		7'-8" H
	MG	9	Metasequoia glyptostroboides / Dawn Redwood	B & B		8'-10'
	NSW	3	Nyssa sylvatica 'Wildfire' / Wildfire Tupelo	B&B	2"-2.5" Cal.	
	RG2	3	Rhus glabra / Smooth Sumac	15 gal		
	TP	17	Thuja occidentalis 'Hetz Wintergreen' / Hetz Wintergreen Arborvitae	B & B		6'-7" H
	TO	10	Thuja occidentalis 'Nigra' / Black Arborvitae	B & B		5'-6" H
	UP	2	Ulmus americana 'Princeton' / Princeton American Elm	B & B	2.5-3" Cal.	
	CL	16	x Cupressocyparis leylandii / Leyland Cypress	B&B		8'-10'

SHRUBS	CODE	QTY	BOTANICAL / COMMON NAME	CONT	SIZE
	Ama	6	Aronia melanocarpa 'Autumn Magic' / Autumn Magic Black Chokeberry	#3	2'-3' H
	Cs	22	Cornus sericea 'Artic Fire' / Artic Fire Dogwood	#3	
	Hqf	3	Hydrangea paniculata 'SMHPLQF' / Little Quick Fire® Panicle Hydrangea	3 gal	
	Ig	38	Ilex glabra 'Shamrock' / Shamrock Inkberry Holly	#5	
	Iv2	20	Ilex verticillata 'Red Sprite' / Red Sprite Winterberry	#5	
	Mc	27	Microbiota decussata 'Prides' / Celtic Pride® Siberian Carpet Cypress	#3	
	Ps	18	Physocarpus opulifolius 'Seward' / Summer Wine® Ninebark	#3	
	Rr	13	Rhododendron maximum 'Roseum Bluestem' / Pink Rosebay Rhododendron	B & B	30"-36"
	Vd	26	Viburnum dentatum 'Blue Muffin' / Blue Muffin Arrowwood Viburnum	#5	

SEED MIXES	CODE	QTY	BOTANICAL / COMMON NAME	CONT
	Sw	21,436 sf	- - / BIO-RETENTION SEED MIX	seed
	Ns	59,869 sf	- - / WILDFLOWER SEED MIX	seed

0 40 80 120 160 feet

1" = 40'

N

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: DEC 28 2023 FILE #: 23-0151
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

PARE

TRAVERSE landscape architects

Edward R. Martin Middle School
111 Brown Street
East Providence, Rhode Island
Plat 307, Lots 33-07 & 33-15

RECEIVED DEC 21 2023

REGISTERED LANDSCAPE ARCHITECT KYLE MITCHELL BRADNER No. 428

REVISIONS:

PROJECT NO.:	K1036
DATE:	JUNE 2023
SCALE:	1"=40'
DESIGNED BY:	SD
CHECKED BY:	AE
DRAWN BY:	JF/SD
APPROVED BY:	AE

DRAWING TITLE:

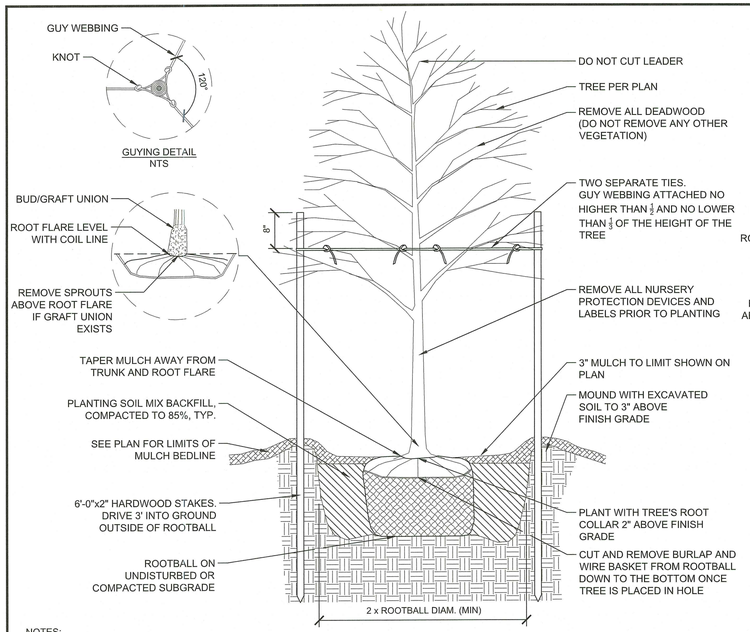
PLANTING PLAN

DRAWING NO.:

LP1.23

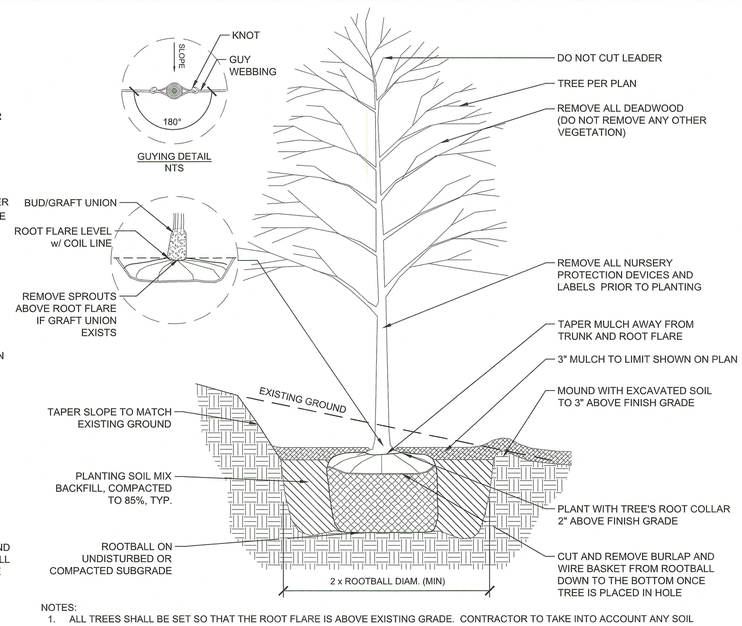
SHEET NO. 24 OF ~~24~~ 26

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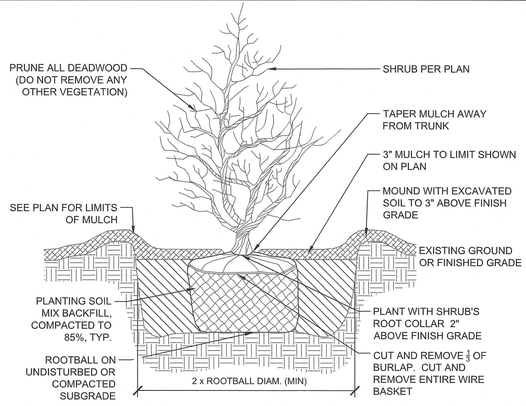
NOTES:
1. ALL TREES SHALL BE SET SO THAT THE ROOT FLARE IS ABOVE EXISTING GRADE. CONTRACTOR TO TAKE INTO ACCOUNT ANY SOIL SETTLING BELOW ROOT BALL.
2. AFTER THE GUARANTEE PERIOD THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL OF STAKES AND GUY WEBBING.
3. ALL TREES NOT LOCATED WITHIN A LARGER MULCHED 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"

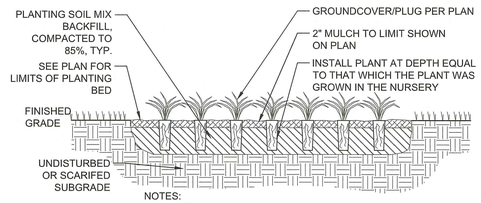


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2. SLOPE PLANTING STAKES SHALL BE PLACED PARALLEL TO SLOPE.
3. AFTER THE GUARANTEE PERIOD THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL OF STAKES AND GUY WEBBING.
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2 DECIDUOUS TREE PLANTING AND STAKING ON SLOPE
3/4" = 1'-0"

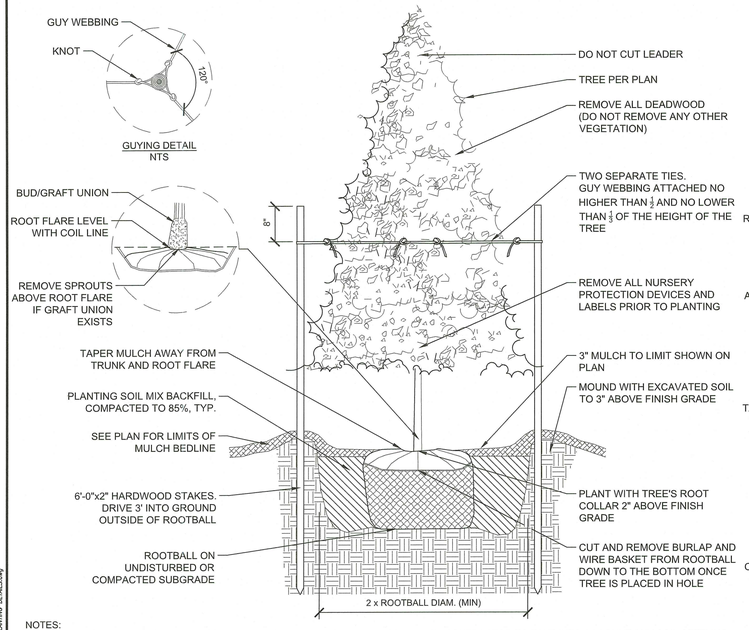


3 SHRUB PLANTING
1" = 1'-0"



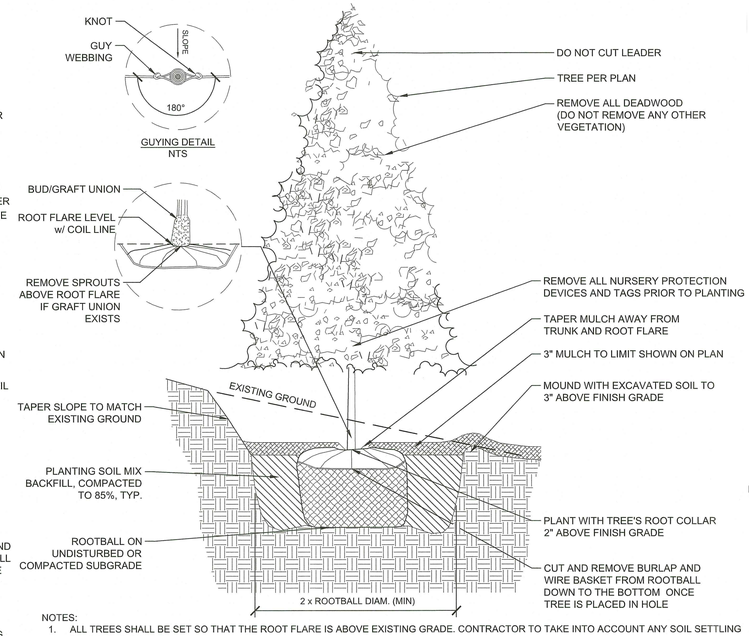
NOTES:
1. REFER TO SPECIFICATIONS AND DETAILS FOR SOIL DEPTHS.

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



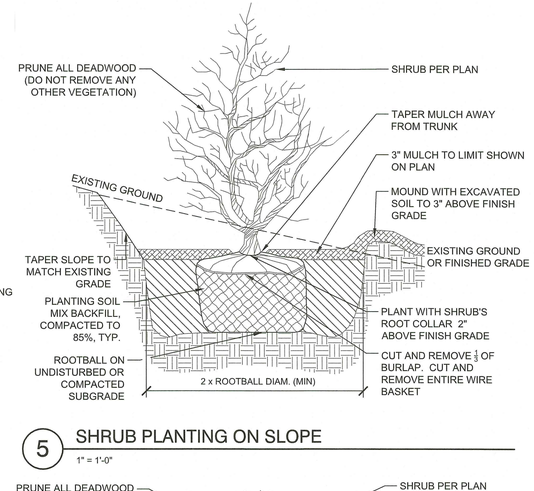
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6 EVERGREEN TREE PLANTING AND STAKING
3/4" = 1'-0"

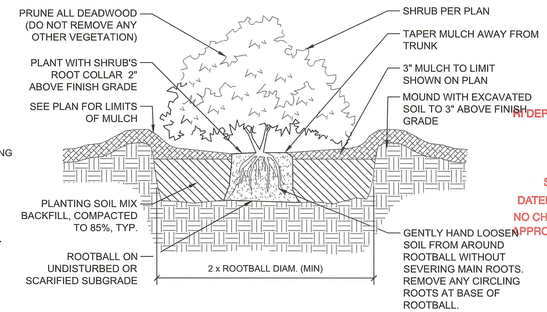


NOTES:
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3. AFTER THE GUARANTEE PERIOD THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL OF STAKES AND GUY WEBBING.
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7 EVERGREEN TREE PLANTING AND STAKING ON SLOPE
3/4" = 1'-0"



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



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

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: DEC 28 2023 FILE #: 23-0157
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PARE

TRAVERSE landscape architects

Edward R. Martin Middle School
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East Providence, Rhode Island
Plat 307, Lots 33-07 & 33-15

RECEIVED DEC 21 2023

REGISTERED LANDSCAPE ARCHITECT ANNE MITCHELL GRADNER No. 428

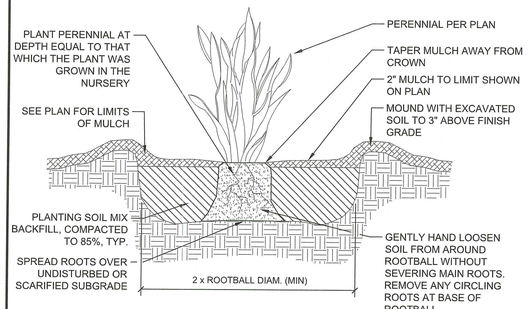
REVISIONS:

PROJECT NO.:	K1036
DATE:	JUNE 2023
SCALE:	
DESIGNED BY:	SD
CHECKED BY:	AE
DRAWN BY:	JF/SD
APPROVED BY:	AE

DRAWING TITLE:
PLANTING DETAILS

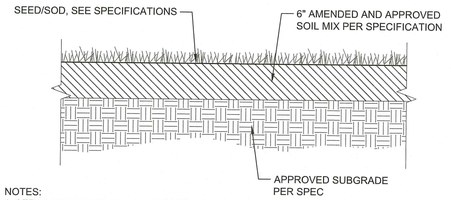
DRAWING NO.:
LP3.01
SHEET NO. 25 OF 24

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9 GRASS OR PERENNIAL PLANTING

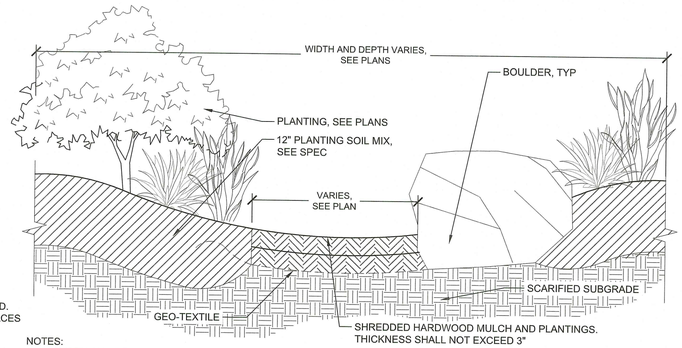
1" = 1'-0"



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.

10 LOAM & SEED

1" = 1'-0"

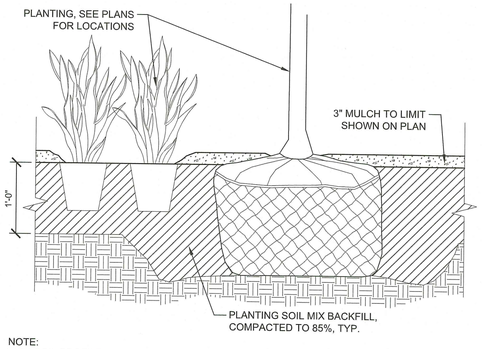


NOTES:
- WIDTH AND DEPTH OF RAIN GARDEN VARIES, SEE PLANS.
- SEE CIVIL PLANS FOR GRADING AND DRAINAGE.

SEDIMENT FOREBAY AREAS TO RECEIVE LOAM & SEED WITH NO MULCH

11 RAIN GARDEN-BIOSWALE PROFILE

1" = 1'-0"



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

12 SOIL PROFILE FOR PLANTING BEDS

1" = 1'-0"

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REGISTERED LANDSCAPE ARCHITECT
ANDREW MITCHELL EGAGNER
No. 428

REVISIONS:

PROJECT NO.:	K1036
DATE:	JUNE 2023
SCALE:	
DESIGNED BY:	SD
CHECKED BY:	AE
DRAWN BY:	JF/SD
APPROVED BY:	AE

DRAWING TITLE:
PLANTING DETAILS

DRAWING NO.:
LP3.02

SHEET NO. 26 OF ~~27~~ 26

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