

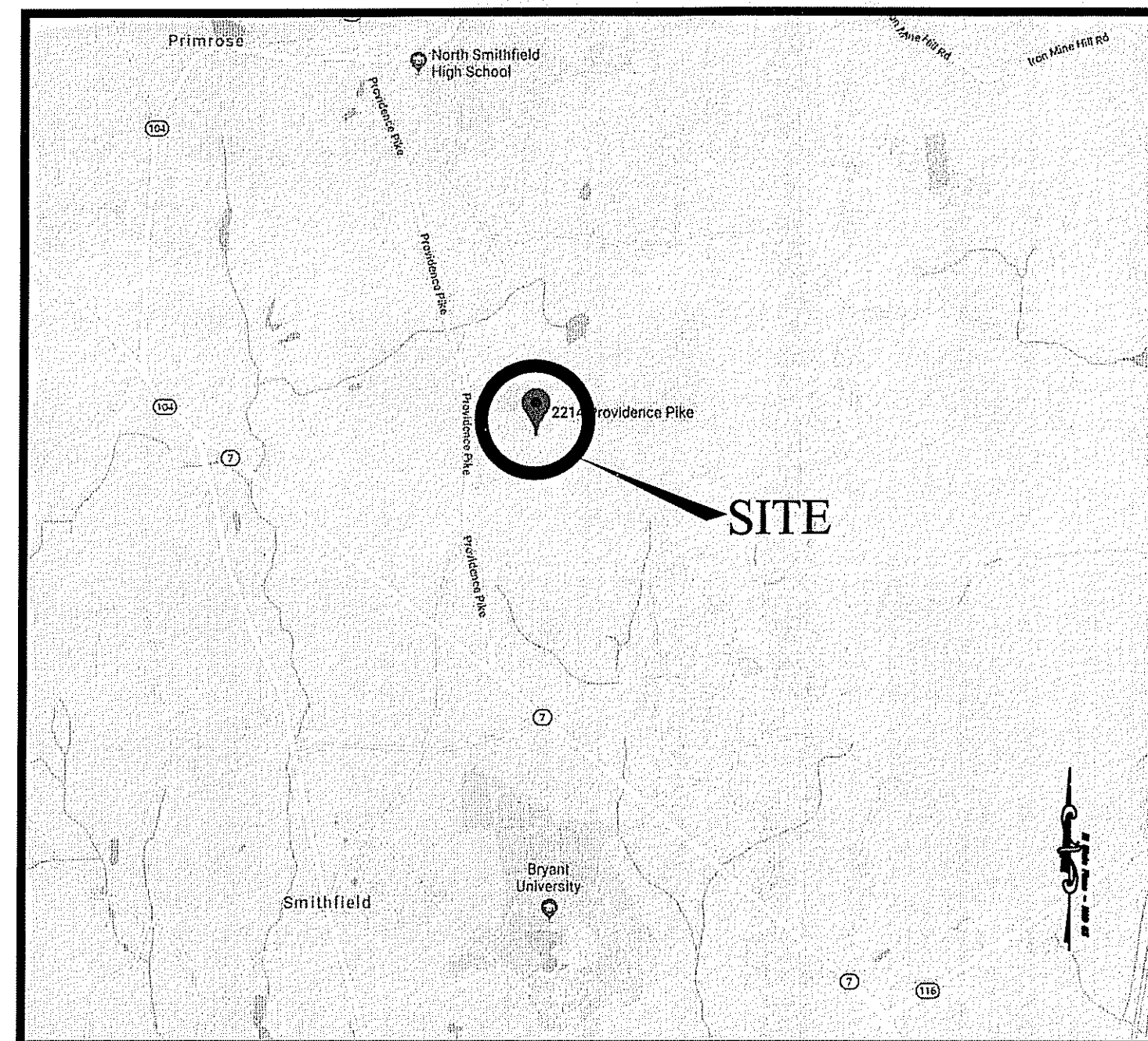
PERMIT PLANS

FOR

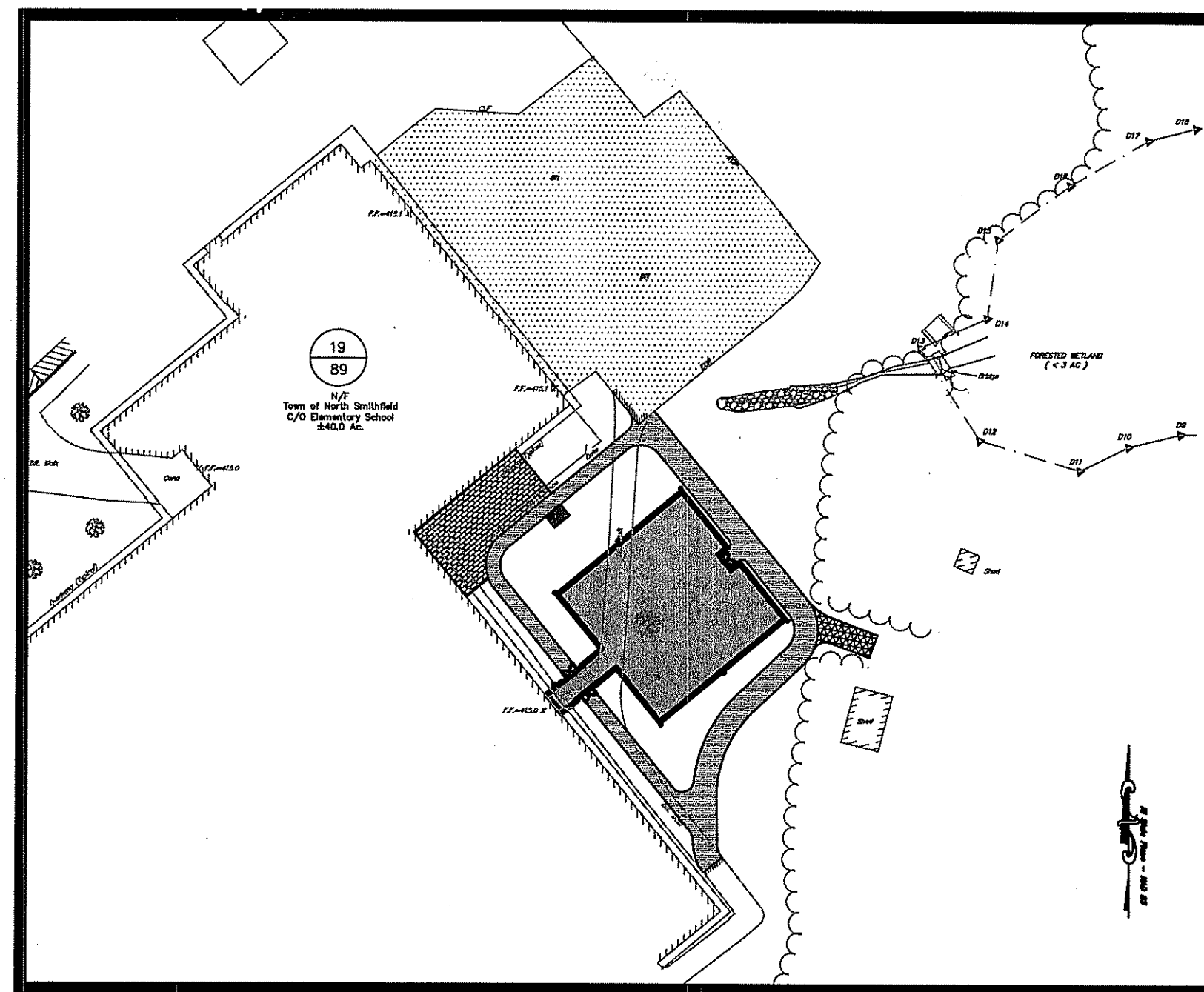
NORTH SMITHFIELD

ELEMENTARY SCHOOL

A.P. 19, LOT 89
 2214 PROVIDENCE PIKE
 NORTH SMITHFIELD, RHODE ISLAND 02896



LOCUS MAP
 NOT TO SCALE



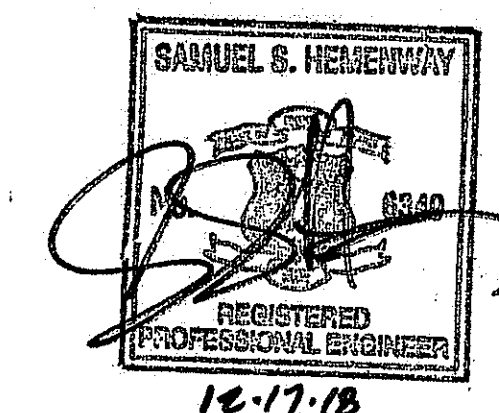
SITE PLAN
 1" = 60'

OWNER / APPLICANT:
 TOWN OF NORTH SMITHFIELD C/O
 ELEMENTARY SCHOOL
 2211 PROVIDENCE PIKE
 NORTH SMITHFIELD,
 RHODE ISLAND 02896

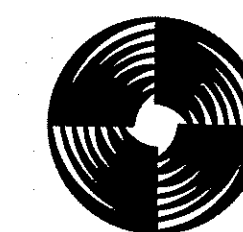
DATE: DECEMBER 2018

SHEET INDEX		
SHEET	PLAN TITLE	LATEST REVISION
	COVER SHEET	
	GENERAL NOTES & LEGEND	
C-1	EXISTING CONDITIONS PLAN	
C-2	DEMOLITION, SOIL EROSION & SEDIMENT CONTROL PLAN	
C-3	SITE LAYOUT PLAN	
C-4	GRADING & EROSION CONTROL PLAN	
C-5	ENLARGED PLAN	
C-6	CONSTRUCTION DETAILS 1	
C-7	CONSTRUCTION DETAILS 2	
C-8		

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 REVIEWED SITE PLAN APPLICATION NO.: 18-0533
 DATED JAN 14 2019
 SEE LETTER OF SAME DATE.

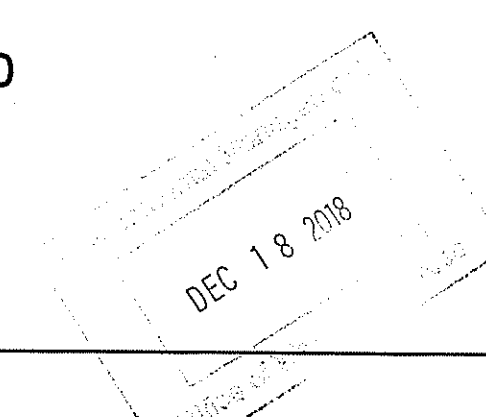


PREPARED BY:



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JOB NO. 7184-00



GENERAL CONSTRUCTION NOTES:

- AN APPROVED SET OF PLANS AND ALL APPLICABLE PERMITS MUST BE AVAILABLE AT THE CONSTRUCTION SITE TRAILER AT ALL TIMES. DEVIATIONS OR CHANGES WILL NOT BE ALLOWED UNLESS BY WRITTEN APPROVAL FROM THE ENGINEER.
- THE CONTRACTOR MUST RETAIN THE SERVICES OF A REGISTERED LAND SURVEYOR IN THE STATE OF RHODE ISLAND TO LAYOUT ON THE GROUND ALL NEW ELEMENTS OF WORK. IF ANY WORK IS INSTALLED PRIOR TO THE ABOVE REQUIREMENT AND IF ANY WORK IS NOT SATISFACTORY TO THE ENGINEER, THE CONTRACTOR MUST REPLACE THE WORK AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL VERIFY THE PROPOSED LAYOUT WITH ITS RELATIONSHIP TO THE EXISTING SITE SURVEY. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, SITE CONDITIONS AND MATERIAL SPECIFICATIONS AND SHALL NOTIFY THE OWNER AND ENGINEER OF ANY ERRORS, OMISSIONS OR DISCREPANCIES BEFORE COMMENCING, INSTALLING OR PROCEEDING WITH WORK.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES AND TO TAKE WHATEVER NECESSARY MEASURES NEEDED TO PROVIDE FOR THEIR PROTECTION. THE SURVEYOR HAS DILIGENTLY ATTEMPTED TO LOCATE AND INDICATE ALL EXISTING UNDERGROUND UTILITIES AND FACILITIES ON THE DRAWINGS; HOWEVER, THE INFORMATION SHOWN IS FOR THE CONTRACTORS CONVENIENCE ONLY. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS OF UTILITIES SHOWN OR NOT SHOWN. THE CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AND LOCATE ANY EXISTING UTILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION, VERIFY ALL DIMENSIONS, SITE CONDITIONS AND MATERIALS. THE CONTRACTOR MUST CONTACT THE LOCAL UTILITY COMPANIES FOR EXACT LOCATION OF UTILITIES PRIOR TO THE START OF ANY CONSTRUCTION AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BEFORE START OF ANY WORK. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AND REPLACE ANY AND ALL DAMAGE MADE TO UTILITIES BY THE CONTRACTOR.
- THE CONTRACTOR MUST NOTIFY OPERATORS WHO MAINTAIN UNDERGROUND UTILITIES IN THE AREA OF PROPOSED CONSTRUCTION, EXCAVATION OR BLASTING AT LEAST THREE WORKING DAYS, BUT NOT MORE THAN TEN WORKING DAYS PRIOR TO THE START OF ANY CONSTRUCTION, EXCAVATION OR BLASTING. ALL WATER, SEWER, GAS AND ALL OTHER UTILITIES MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
- METHODS AND MATERIALS USED IN THE CONSTRUCTION OF IMPROVEMENTS MUST CONFORM TO THE LOCAL CITY/TOWN CURRENT CONSTRUCTION STANDARDS AND SPECIFICATIONS AND THE STATE OF RHODE ISLAND DEPARTMENT OF TRANSPORTATION.
- THE CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY PAVEMENT, DRIVEWAYS, SIDEWALKS, WALL, CURBS, ETC. DAMAGED DURING CONSTRUCTION WITH MATCHING MATERIALS.
- THE CONTRACTOR AGREES THAT HE WILL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE PROJECT SITE CONDITIONS THROUGHOUT CONSTRUCTION, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONJUNCTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.
- ALL MATERIALS USED FOR CONSTRUCTION MUST BE NEW AND FREE OF DEFECTS. USED OR SALVAGED MATERIAL WILL NOT BE ALLOWED UNLESS WRITTEN APPROVAL FROM THE OWNER IS OBTAINED BY THE CONTRACTOR.
- AT ALL TIME THE CONTRACTOR MUST MAINTAIN ACCESS FOR EMERGENCY VEHICLES AROUND AND TO ALL BUILDINGS. (I.E. IN TIMES OF RAIN OR SNOW, ROADS MUST BE ABLE TO CARRY A FIRE TRUCK BY BEING PAVED OR HAVING A CRUSHED STONE BASE, ETC.). WIDTH OF EMERGENCY VEHICLE ACCESS MUST BE A MINIMUM OF 20 FEET WIDE. ACCESS TO BUILDINGS THAT HAVE A FIRE SPRINKLER SYSTEM OR STANDPIPE MUST BE WITHIN 40 FEET OF THE FIRE DEPARTMENT CONNECTION (FDC). NFPA 1141 3-1.
- NECESSARY BARRICADES, LIGHTS, SIGNS AND OTHER TRAFFIC CONTROL METHODS AS MAYBE NECESSARY FOR THE PROTECTION AND SAFETY OF THE PUBLIC MUST BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION BY THE CONTRACTOR.
- ALL RI HIGHWAY BOUNDS AND PERMANENT SURVEY MARKERS SHALL BE PROTECTED THROUGHOUT CONSTRUCTION.
- ALL WORK WITHIN THE STATE'S ROW WILL CONFORM TO RIDOT'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AMENDED 2013, WITH ALL REVISIONS AND R.I. STANDARD DETAILS, 1998 EDITION, WITH ALL REVISION.
- ALL TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES 2009, INCLUDING ALL REVISIONS.
- TEST HOLE EVALUATIONS WERE NOT PERFORMED BY GAROFALO & ASSOCIATES.
- REFER TO ARCHITECTURAL, STRUCTURAL, AND MECHANICAL PLANS FOR ALL BUILDING INFORMATION.
- THERE ARE KNOWN WETLAND AREAS ON OR ADJACENT TO THE PROJECT SITE.
- THE SOIL SURVEY OF RHODE ISLAND PREPARED BY THE US DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE DEPICTS THE UNDERLYING SOILS OF THE SITE TO BE COMPRISED PRIMARILY OF WOODBRIDGE FINE SANDY LOAM. THIS SOIL TYPE IS CLASSIFIED AS HYDROLOGIC SOIL GROUP "C."

BIORETENTION AREA CONSTRUCTION PROTECTION

FOR THE LONG-TERM FUNCTION OF THE BIORETENTION FOR GROUND DRAIN RECHARGED, CARE MUST BE TAKEN IN THIS AREA DURING CONSTRUCTION. THE CONTRACTOR SHALL EMPLOY THE FOLLOWING MINIMUM BEST MANAGEMENT PRACTICES (BMP'S):

- THE BIORETENTION AREAS SHALL NOT BE USED AS A CONSTRUCTION SEDIMENTATION SYSTEM.
- CONSTRUCTION EQUIPMENT, VEHICULAR TRAFFIC, PARKING OF VEHICLES, AND STOCKPILING OF CONSTRUCTION AND EARTH MATERIALS SHALL BE OUTSIDE THE LIMITS OF THE BIORETENTION AREA UNTIL INSTALLATION IS COMPLETED. THE SUBGRADE BENEATH THE SYSTEM SHALL NOT BE COMPACTED.
- EXCAVATION FOR CONSTRUCTION OF THE BIORETENTION AREAS SHALL BE PERFORMED MANUALLY OR BY HYDRAULIC EXCAVATOR OR SOME OTHER SIMILAR MEANS TO ENSURE THAT THE EQUIPMENT IS NOT IN DIRECT CONTACT WITH THE NATURAL INFILTRATION EARTH MATERIAL AND DOES NOT CAUSE COMPACTED OF THE MATERIAL.
- THE CONTRACTOR SHALL INSTALL TEMPORARY CONSTRUCTION FENCING AND EROSION CONTROLS AROUND THE PERIMETER OF THE BIORETENTION AREA TO PREVENT THE USE OF THIS AREA FOR ALL ACTIVITIES THAT MIGHT DAMAGE THE INFILTRATION CAPABILITIES OF THE AREA. THIS FENCING MAY BE REMOVED FOR BACKFILLING AND FINAL CONSTRUCTION.

GENERAL UTILITY NOTES:

- THE CONTRACTOR SHALL NOTIFY DIG-SAFE (1-888-344-7233) AND ALL LOCAL AUTHORITIES & UTILITY COMPANIES TO VERIFY LOCATIONS OF UTILITIES WITHIN THE AREA 72 HOURS PRIOR TO BEGINNING ANY EXCAVATION OR DEMOLITION FOR THE PURPOSE OF COORDINATING THE MARKING OF UNDERGROUND UTILITIES. LOCATION AND DEPTHS OF EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY, LOCATE AND PROTECT EXISTING UTILITIES IN THE FIELD WHETHER OR NOT SHOWN ON THE DRAWINGS.
- ALL WORK SHALL BE IN COMPLETE ACCORDANCE WITH ALL APPLICABLE STATE, FEDERAL AND LOCAL CODES, AND ALL NECESSARY LICENSES AND PERMITS SHALL BE OBTAINED BY THE CONTRACTOR AT HIS EXPENSE UNLESS PREVIOUSLY OBTAINED BY THE OWNER/DEVELOPER.
- THE CONTRACTOR SHALL COORDINATE LOCATION AND INSTALLATION OF ALL UNDERGROUND UTILITIES AND APPURTENANCES TO MINIMIZE DISTURBANCE OF CURBING, PAVING AND COMPACTED SUBGRADE. THE CONTRACTOR SHALL NOTIFY THE TOWN ENGINEER & ALL LOCAL UTILITY COMPANIES 48 HOURS BEFORE EACH PHASE OF CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY INFORM THE ENGINEER OF ANY DISCREPANCIES OR ERRORS DISCOVERED IN THE PLANS.
- BEDDING REQUIREMENTS SPECIFIED HEREIN ARE TO BE CONSIDERED AS MINIMUMS FOR RELATIVELY DRY, STABLE EARTH CONDITIONS. ADDITIONAL BEDDING SHALL BE REQUIRED FOR ROCK TRENCHES AND WET AREA. CONTRACTOR SHALL HAVE THE RESPONSIBILITY TO PROVIDE SUCH ADDITIONAL BEDDING AS MAY BE REQUIRED TO PROPERLY CONSTRUCT THE WORK.
- THE CONTRACTOR SHALL REMOVE ANY ABANDONED FOUNDATIONS, UTILITY STRUCTURES, BURIED DEBRIS ETC. WHICH INTERFERE WITH THE INSTALLATION OF THE UTILITY WORK. ALL SUCH STRUCTURES SHALL BE COMPLETELY REMOVED AND THE EXCAVATED AREA SHALL BE BACKFILLED WITH COMPACTED GRAVEL IN 6" LIFTS TO 95% COMPACTION TO 6" BELOW THE BOTTOM OF THE UTILITY AND PIPE.
- COMPACTION OF THE BACKFILL OF ALL TRENCHES SHALL BE COMPACTED TO THE DENSITY OF 95% OF THE THEORETICAL MAXIMUM DRY DENSITY (ASTM D698). BACKFILL MATERIAL SHALL BE FREE FROM ROOTS, STUMPS OR OTHER FOREIGN DEBRIS AND SHALL BE PLACED IN LIFTS NOT TO EXCEED ONE FOOT IN COMPACTED FILL THICKNESS. CORRECTION OF ANY TRENCH SETTLEMENT WITHIN A YEAR FROM THE DATE OF PROJECT APPROVAL WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL PIPING LAYOUT INDICATED ON THESE PLANS IS DIAGRAMMATIC ONLY AND DOES NOT SHOW ALL THE REQUIRED FITTINGS FOR PROPER ALIGNMENT. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED FITTINGS TO OBTAIN PROPER ALIGNMENT AND FOR EXISTING UTILITY CONNECTIONS BASED UPON FIELD CONDITIONS.
- STORM DRAINS 12" AND OVER SHALL BE SMOOTH INTERIOR WALL AND EXTERIOR CORRUGATED HIGH DENSITY POLYETHYLENE (HDPE) PIPE CAPABLE OF WITHSTANDING (H-20) LOAD UNLESS NOTED OTHERWISE. PIPE SHALL BE JOINED USING BELL & SPIGOT JOINTS MEETING OR EXCEED ASTM F2648. THE JOINT SHALL BE SOIL-TIGHT AND GASKETS SHALL MEET OR EXCEED ASTM F477. HDPE PIPE SHALL BE AS MANUFACTURED BY ADVANCED DRAINAGE SYSTEMS INC. (ADS), HANCOR PIPE OR LANE PIPE. ALL STORM DRAINAGE PIPING SHALL BE LAID ON A SMOOTH CONTINUOUS GRADE WITH NO VISIBLE BENDS AT THE JOINTS. WHERE INDICATED ON DRAWINGS REINFORCED CONCRETE PIPE (RCP) PIPE SHALL BE CLASS III RCP WITH "O" RING GASKET JOINTS

THE DRAINAGE SYSTEMS ARE TO BE MONITORED THROUGHOUT THE ENTIRE CONSTRUCTION PERIOD BY THE CONTRACTOR. UPON COMPLETION OF THE PROJECT THE CONTRACTOR MUST DO A FINAL FULL MAINTENANCE & CLEAN UP OF THE STORMWATER MANAGEMENT SYSTEM AND THE SITE. UPON COMPLETION OF THE CONTRACTOR'S FINAL MAINTENANCE & CLEAN UP OF THE PROJECT, MONITORING OF THE STORMWATER MANAGEMENT SYSTEM SHALL BE THE RESPONSIBILITY OF THE OWNER.

CONSTRUCTION MONITORING/MAINTENANCE PROCEDURES SHALL BE AS FOLLOWS:
(RESPONSIBILITY OF CONTRACTOR)

- SILT BARRIER:**
MONITOR SILT BARRIER ON A WEEKLY BASIS AND AFTER EVERY RAIN STORM EVENT AND REPAIR OR REPLACE ANY DAMAGED AREAS IMMEDIATELY. IMMEDIATELY CLEAN THE SILT BARRIER IF SIX INCHES OR MORE OF SEDIMENT HAS ACCUMULATED ON THE HAYBALE & SILT BARRIER.
 - PAVED AREAS:**
PARKING LOTS, PUBLIC & PRIVATE ROADWAYS AND GUTTERS SHALL BE SWEEPED CLEAN OF ALL SEDIMENT & DEBRIS. SWEEPING & REMOVAL OF DEBRIS SHALL BE PERFORMED ON A WEEKLY BASIS AT A MINIMUM.
 - CATCH BASINS:**
ALL CATCH BASINS SHALL BE INSTALLED AS DETAILED AND INSPECTED AFTER EVERY RAIN STORM EVENT. IMMEDIATELY CLEAN THE CATCH BASIN SUMP IF TWO FEET OR MORE OF SEDIMENT HAS ACCUMULATED WITHIN THE CATCH BASIN.
 - DRAIN MANHOLES:**
DRAIN MANHOLES SHALL BE INSTALLED AS DETAILED AND INSPECTED AFTER EVERY RAIN STORM EVENT. IMMEDIATELY CLEAN THE DRAIN MANHOLE IF ONE FOOT OR MORE OF SEDIMENT HAS ACCUMULATED WITHIN THE DRAIN MANHOLE.
- POST CONSTRUCTION MONITORING/MAINTENANCE PROCEDURES SHALL BE AS FOLLOWS:
(RESPONSIBILITY OF OWNER)
- PAVED AREAS:**
PARKING LOTS, ROADS AND ALL ACCESS WAYS AND GUTTERS MUST BE SWEEPED CLEAN OF ALL SEDIMENT AND DEBRIS ON BI-ANNUAL BASIS IN SPRING AND FALL OF EACH YEAR, OR AS NECESSARY.
 - CATCH BASINS:**
ALL CATCH BASINS MUST BE INSPECTED AND MAINTAINED ON A BI-ANNUAL BASIS IN MARCH AND OCTOBER OF EACH YEAR. CATCH BASINS MUST BE INSPECTED TO ENSURE THEY HAVE ADEQUATE SUMP CAPACITY, FRAMES AND GRATES ARE NOT DAMAGED, OIL/WATER SEPARATING DEVICES ARE IN PLACE. CATCH BASIN SUMPS ARE TO BE CLEANED OUT DURING BI-ANNUAL INSPECTIONS IN MARCH AND OCTOBER OF EACH YEAR. IMMEDIATELY CLEAN THE CATCH BASIN SUMP IF TWO FEET OR MORE OF SEDIMENT HAS ACCUMULATED WITHIN THE CATCH BASIN.
 - DRAIN MANHOLES:**
ALL DRAIN MANHOLES MUST BE INSPECTED AND MAINTAINED ON A BI-ANNUAL BASIS IN MARCH AND OCTOBER OF EACH YEAR. DRAIN MANHOLES MUST BE INSPECTED TO ENSURE FRAMES AND COVERS ARE NOT DAMAGED AND NO BLOCKAGES HAVE OCCURRED WITHIN THE MANHOLE. DRAIN MANHOLES ARE TO BE CLEANED OUT DURING BI-ANNUAL INSPECTIONS IN MARCH AND OCTOBER OF EACH YEAR IMMEDIATELY CLEAN THE DRAIN MANHOLE IF ONE FOOT OR MORE OF SEDIMENT HAS ACCUMULATED WITHIN THE DRAIN MANHOLE.
 - SUBSURFACE INFILTRATION BASINS AND ISOLATOR ROWS:**
SUBSURFACE INFILTRATION BASIN SHALL BE INSPECTED ON A BI-ANNUAL BASIS, IN MARCH BASIN SHALL BE MONITORED FOR ANY PONDING AND ACCUMULATION OF SEDIMENT/DEBRIS. ALL ACCUMULATED SEDIMENT AND DEBRIS MUST BE REMOVED BY A VAC-TRUCK. DISPOSAL OF ALL SEDIMENT AND DEBRIS MUST IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL GUIDELINES & REGULATIONS.

EROSION CONTROL and SOIL STABILIZATION PROGRAM:

- DENUDED SLOPES SHALL NOT BE LEFT EXPOSED FOR EXCESSIVE PERIODS OF TIME.
 - ALL DISTURBED SLOPES EITHER NEWLY CREATED OR EXPOSED PRIOR TO OCTOBER 15, SHALL BE SEEDED OR PROTECTED BY THAT DATE FOR ANY WORK COMPLETED DURING EACH CONSTRUCTION YEAR.
 - TEMPORARY TREATMENTS SHALL CONSIST OF A HAY, STRAW, OR FIBER MULCH OR PROTECTIVE COVERS SUCH AS A MAT OR FIBER LINING (BURLAP, JUTE, FIBERGLASS NETTING, EXCELSIOR BLANKETS). THEY SHALL BE INCORPORATED INTO THE WORK AS WARRANTED OR AS ORDERED BY THE ENGINEER.
 - HAY OR STRAW APPLICATIONS SHOULD BE IN THE AMOUNT OF 2000 LBS/ACRE.
 - ALL HAYBALES OR TEMPORARY PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED.
 - THE TOPSOIL SHALL HAVE A SANDY LOAM TEXTURE RELATIVELY FREE OF SUBSOIL MATERIAL, STONES, ROOTS, LUMPS OF SOIL, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS.
 - THE SEED MIX SHALL BE INOCULATED WITHIN TWENTY FOUR (24) HOURS, BEFORE MIXING AND PLANTING, WITH APPROPRIATE INOCULUM FOR EACH VARIETY.
 - THE DESIGN MIX FOR TEMPORARY EROSION CONTROL AND SOIL STABILIZATION SHALL BE COMPRISED OF THE FOLLOWING:
- | TYPE | % BY WEIGHT |
|---------------------|-------------|
| CREeping RED FESCUE | 70 |
| ASTORIA BENTGRASS | 5 |
| BIRDSFOOT TREEFOIL | 15 |
| PERENNIAL RYEGRASS | 10 |
- APPLICATION RATE 100 LBS/ACRE
- LIMING AND FERTILIZING AS REQUIRED TO COMPLIMENT OR UPGRADE EXISTING CONDITIONS.
- THE CONTRACTOR MUST REPAIR AND/OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE (1) YEAR, AND HE SHALL DO SO AT NO ADDITIONAL EXPENSE.
 - THE NORMAL ACCEPTABLE SEASONAL SEEDING DATES ARE APRIL 1ST THROUGH OCTOBER 15TH.
 - STABILIZATION OF ONE FORM OR ANOTHER AS DESCRIBED ABOVE SHALL BE ACHIEVED WITHIN FIFTEEN (15) DAYS OF FINAL GRADING.
 - STOCKPILES OF TOPSOIL SHALL NOT BE LOCATED NEAR WATERWAYS OR FLOOD PLAINS. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN THIRTY PERCENT (30%) AND STOCKPILES SHALL ALSO BE SEEDED AND/OR STABILIZED AND COMPLETELY ENCIrcLED WITH A CONTINUOUS LINE OF STAKED HAYBALES AND/OR SILTFENCE. (SEE DETAIL)
 - ON BOTH STEEP AND LONG SLOPES, CONSIDERATION SHOULD BE GIVEN TO "CRIMPING" OR "TRACKING" TO TACK DOWN MULCH APPLICATIONS.

DISTURBING ACTIVITIES: SEQUENCE AND STAGING OF LAND

- SURVEY AND STAKE THE DRAINAGE STRUCTURES, LIMIT OF WORK AND SEDIMENTATION BARRIERS.
- PLACE SEDIMENTATION BARRIERS (SILT SOCK OR SILT FENCE) AS SHOWN ON THE PLANS AND STAKED OUT IN THE FIELD. IN NO CASE IS THE LIMIT OF WORK TO EXTEND BEYOND THE SEDIMENTATION BARRIERS.
- BEGIN ROADWAY AND DRAINAGE WORK (CLEARING AND GRUBBING, EXCAVATING AND GRADING, ETC.). TOP SOIL TO BE STRIPPED AND STOCKPILED IN APPROVED AREAS. THE STOCKPILES ARE TO BE PROTECTED BY A ROW OF SEDIMENTATION BARRIER AND COVERED OR TEMPORARILY SEEDED. NO RUNOFF IS TO BE DISCHARGED TO THE DETENTION STRUCTURES UNTIL THE BINDER COURSE OF PAVEMENT IS INSTALLED AND DISTURBED AREAS ARE STABILIZED WITH VEGETATION.
- BEGIN CLEARING WITHIN AREAS OF THE PROPOSED STRUCTURES FOLLOWING CONSTRUCTION OF ROADWAY.
- LANDSCAPING AND PERMANENT STABILIZATION. SWEEP THE ROADWAY AREAS TO REMOVE ALL SEDIMENTS.
- FLUSH AND/OR REPAIR DRAINAGE AREAS AS NEEDED.
- REMOVE ALL TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL MEASURES FOLLOWING VEGETATIVE ESTABLISHMENT OF ALL DISTURBED AREAS.

SEDIMENTATION CONTROL PROGRAM:

- EXTREME CARE SHALL BE EXERCISED SO AS TO PREVENT ANY SEDIMENTS FROM ENTERING THE STATE HIGHWAY OR ADJOINING PROPERTIES.
- BANKS OR SLOPES OVER 5% SHALL BE SEEDED AS SOON AS POSSIBLE AND SHALL BE PROTECTED WITH A HAY, STRAW OR FIBER MULCH.
- DURING CONSTRUCTION, THE CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING STORMS AND PERIODS OF RAINFALL.
- SEDIMENTATION CONTROL DEVICES SHALL BE INSPECTED CLOSELY AND MAINTAINED PROMPTLY AFTER EACH RAINFALL.
- CARE SHALL BE TAKEN SO AS NOT TO PLACE "REMOVED SEDIMENTS" WITHIN THE PATH OF EXISTING NEWLY CREATED (BOTH TEMPORARY AND PERMANENT) OR PROPOSED WATERCOURSES OR THOSE AREAS SUBJECTED TO STORM WATER FLOW.
- ADDITIONAL SILT SOCKS AND/OR SILT FENCE SHALL BE LOCATED AS CONDITIONS WARRANT OR AS DIRECTED BY THE ENGINEER.

ABBREVIATIONS

CI	CAST IRON PIPE	HDPE	HIGH DENSITY POLYETHYLENE PIPE
CLDI	CEMENT LINED DUCTILE IRON PIPE	INV.	INVERT ELEVATION
CLF	CHAINLINK FENCE	MTE	MATCH TO EXISTING
CTE	POINT OF CONNECTION TO EXISTING	NIC	NOT IN CONTRACT
D.I.	DUCTILE IRON PIPE	NTS	NOT TO SCALE
ESHWT	ESTIMATED SEASONAL HIGH WATER TABLE	PVC	POLYVINYL CHLORIDE PIPE
ETR	EXISTING TO REMAIN	RCP	REINFORCED CONCRETE PIPE
EX	EXISTING	VIF	VERIFY IN FIELD
F&I	FURNISH AND INSTALL	WQS	WATER QUALITY STRUCTURE

SITE LEGEND

EXISTING	NEW	DESCRIPTION
— C —	— C —	CENTERLINE (LAYOUT)
— D —	— D —	STORM DRAIN
— E —	— E —	ELECTRIC (UNDERGROUND)
— F —	— F —	FIRE SERVICE
— FD —	— FD —	FOOTING DRAIN
— G —	— G —	GAS
— OHW —	— OHW —	OVERHEAD WIRE
— S —	— S —	PROPERTY LINE
— SL —	— SL —	SANITARY SEWER
— T —	— T —	SITE LIGHTING SERVICE
— W —	— W —	TELEPHONE
— W —	— W —	WATER
— 64 —	— 64 —	CONTOUR
X64.0	X64.00	SPOT GRADE
X64.0(BC)	X64.00(BC)	SPOT GRADE (BOT. OF CURB)
X64.5(TC)	X64.50(TC)	SPOT GRADE (TOP OF CURB)
64.5(BW)	64.50(BW)	SPOT GRADE (BOT. OF WALL)
64.5(TW)	64.50(TW)	SPOT GRADE (TOP OF WALL)
— BCC —	— BCC —	BITUMINOUS CONC. CURB
— CCB —	— CCB —	CAPE COD BERM
— PCC —	— PCC —	PRECAST CONC. CURB
— PCSMC —	— PCSMC —	PRECAST SLOPED MOUNT. CURB
— SGC —	— SGC —	SLOPED GRANITE CURB
— VGC —	— VGC —	VERTICAL GRANITE CURB
— X — X — X —	— X — X — X —	CHAINLINK FENCE (CLF)
— □ — □ — □ —	— □ — □ — □ —	STOCKADE FENCE (STKF)
— □ —	— □ —	BORING LOCATION
— □ CB —	— □ CB#1 —	CATCH BASIN
— □ CB(DG) —	— □ CBDG#1 —	DOUBLE GRATE CATCH BASIN
— CTB —	— CTB —	CONCRETE THRUST BLOCK
— DMH —	— DMH —	DRAIN MANHOLE
— FES —	— FES —	FLARED END STRUCTURE
— SMH —	— SMH —	SEWER MANHOLE
— U —	— U —	UTILITY POLE
— F —	— F —	FIRE HYDRANT
— G —	— G —	GATE VALVE AND CURB BOX
— H —	— H —	HANDICAP SYMBOL (PRKG. SPACE)
— I —	— I —	SIGN
— W —	— W —	WETLAND
— SEV —	— SEV —	SOIL EVALUATION LOCATION
— TP —	— TP —	TEST PIT LOCATION
— FDC —	— FDC —	FIRE DEPARTMENT CONNECTION
— PIV —	— PIV —	POST INDICATOR VALVE (PIV)
— EMH —	— EMH —	ELECTRIC MANHOLE (EMH)
— TMH —	— TMH —	TELEPHONE MANHOLE (TMH)
— T —	— T —	TRANSFORMER PAD
— GEN —	— GEN —	GENERATOR PAD
— GCO —	— GCO —	GROUND CLEANOUT
— LP —	— LP —	SIGHT LIGHT POLE
— TFD —	— TFD —	TRAFFIC FLOW DIRECTION
— H —	— H —	CONTINUOUS ROW OF HAYBALES
— F —	— F —	CONTINUOUS ROW OF SILT FENCE
— S —	— S —	PAVEMENT SAWCUT & MATCH TO EXISTING
— X.X.X —	— X.X.X —	RIDOT STD DETAIL REFERENCE

CALLOUT/KEY LEGEND:

(BCP)	BITUMINOUS CONCRETE PAVEMENT 2" BITUMINOUS CONCRETE CLASS 12.5 HMA 3" BITUMINOUS CONCRETE CLASS 19 HMA (OR 8" BIT. CONC. CLASS 19 HMA WITHIN STATE ROW IF REQUIRED) 12" GRAVEL BORROW SUBBASE
(CM)	PAVEMENT CUT AND MATCH
(8.0)	CONSTRUCTION ENTRANCE
(LS)	4" LOAM AND SEEDING, TYPE 2
(LOD)	LIMIT OF DISTURBANCE
(SS)	SILT SOCK EROSION CONTROL
(SACK)	SILT SACK INVERT PROTECTION

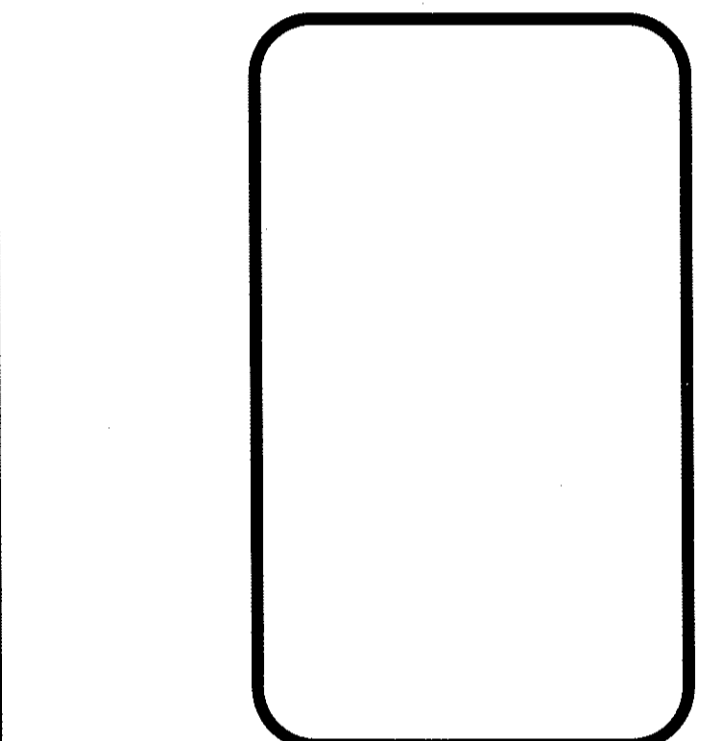
OWNER/APPLICANT:
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TOWN OF NORTH SMITHFIELD
C/O ELEMENTARY SCHOOL
P.O. BOX 248
SLATERSVILLE, RI 02876

GENERAL NOTES & LEGEND

FOR
A.P. 19, LOT 89
SITUATED ON

2214 PROVIDENCE PIKE
NORTH SMITHFIELD, RHODE ISLAND
PREPARED FOR
TOWN OF NORTH SMITHFIELD
C/O ELEMENTARY SCHOOL

NO.	REVISION	BY	DATE



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GAROFALO & ASSOCIATES, INC.
CIVIL & STRUCTURAL ENGINEERS/SURVEYORS
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85 CORLISS STREET
P.O. BOX 6145
PROVIDENCE, R.I. 02940
TEL: 401-273-6000

JOB NO. 7184.00	DRAWN BY K.Y.Y.
DWG. NO. 7184-00-Permit-Plan	CHECK BY S.S.H.
SCALE: AS SHOWN	APPROVED S.S.H.
	DATE: DECEMBER 18, 2018

SHEET

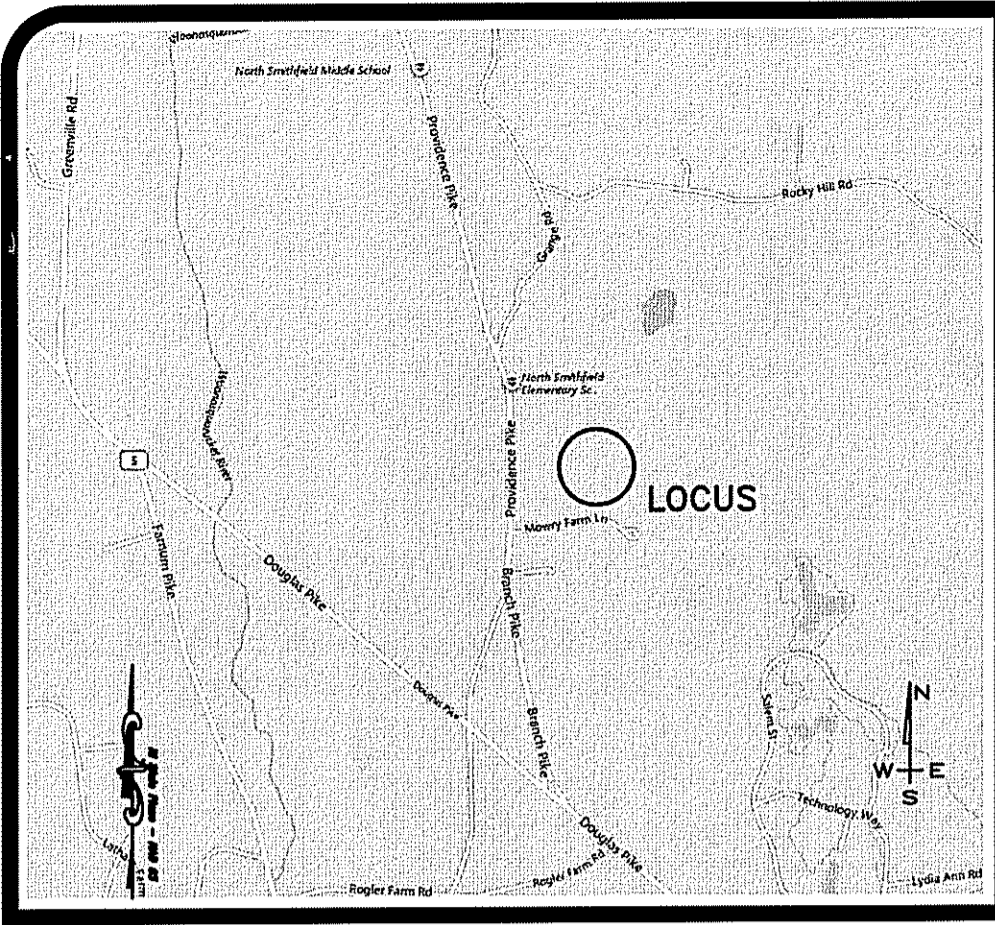
C-1

OF 9 SHEETS

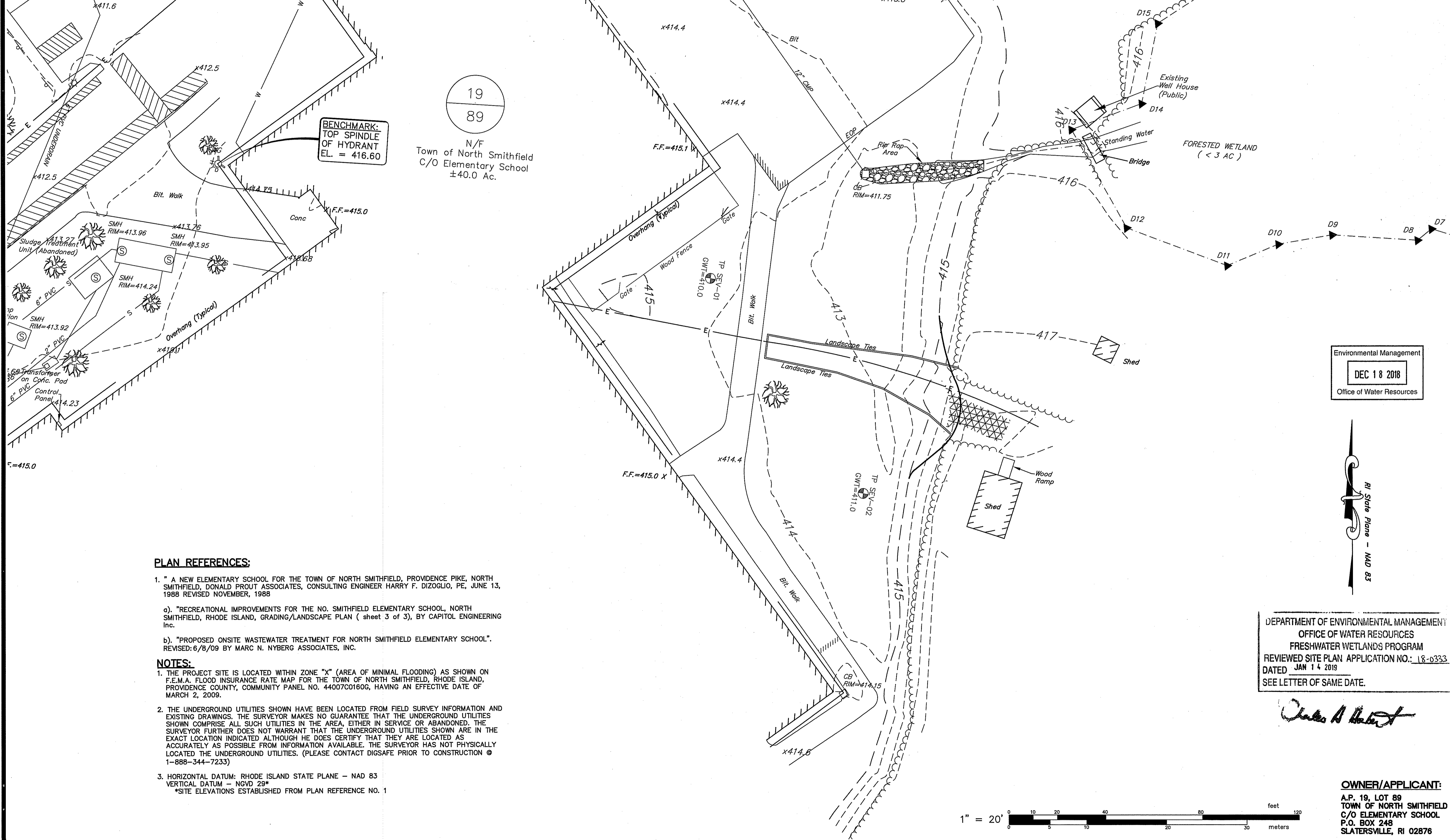
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
REVIEWED SITE PLAN APPLICATION NO.: 18-0533
DATED 12/14/2018
SEE LETTER OF SAME DATE.

Charles A. Hallett

Environmental Management
DEC 18 2018
Office of Water Resources



LOCUS MAP
N.T.S.



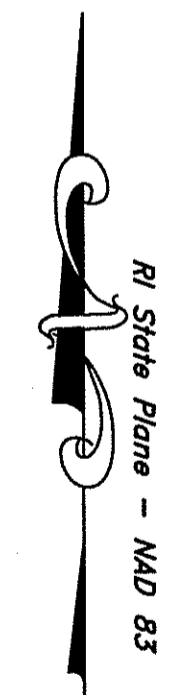
19
89

N/F
Town of North Smithfield
C/O Elementary School
±40.0 Ac.

BENCHMARK:
TOP SPINDLE
OF HYDRANT
EL. = 416.60

BENCHMARK:
TOP SPINDLE
OF HYDRANT
EL. = 418.18

Environmental Management
DEC 18 2018
Office of Water Resources



PLAN REFERENCES:

1. "A NEW ELEMENTARY SCHOOL FOR THE TOWN OF NORTH SMITHFIELD, PROVIDENCE PIKE, NORTH SMITHFIELD, DONALD PROUT ASSOCIATES, CONSULTING ENGINEER HARRY F. DIZOGLIO, PE, JUNE 13, 1988 REVISED NOVEMBER, 1988
- a). "RECREATIONAL IMPROVEMENTS FOR THE NO. SMITHFIELD ELEMENTARY SCHOOL, NORTH SMITHFIELD, RHODE ISLAND, GRADING/LANDSCAPE PLAN (sheet 3 of 3), BY CAPITOL ENGINEERING Inc.
- b). "PROPOSED ONSITE WASTEWATER TREATMENT FOR NORTH SMITHFIELD ELEMENTARY SCHOOL". REVISED: 6/8/09 BY MARC N. NYBERG ASSOCIATES, INC.

NOTES:

1. THE PROJECT SITE IS LOCATED WITHIN ZONE "X" (AREA OF MINIMAL FLOODING) AS SHOWN ON F.E.M.A. FLOOD INSURANCE RATE MAP FOR THE TOWN OF NORTH SMITHFIELD, RHODE ISLAND, PROVIDENCE COUNTY, COMMUNITY PANEL NO. 44007C0160G, HAVING AN EFFECTIVE DATE OF MARCH 2, 2009.
2. THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. (PLEASE CONTACT DIGSAFE PRIOR TO CONSTRUCTION @ 1-888-344-7233)
3. HORIZONTAL DATUM: RHODE ISLAND STATE PLANE - NAD 83
VERTICAL DATUM - NGVD 29*
*SITE ELEVATIONS ESTABLISHED FROM PLAN REFERENCE NO. 1

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
REVIEWED SITE PLAN APPLICATION NO.: 18-0333
DATED JAN 14 2018
SEE LETTER OF SAME DATE.

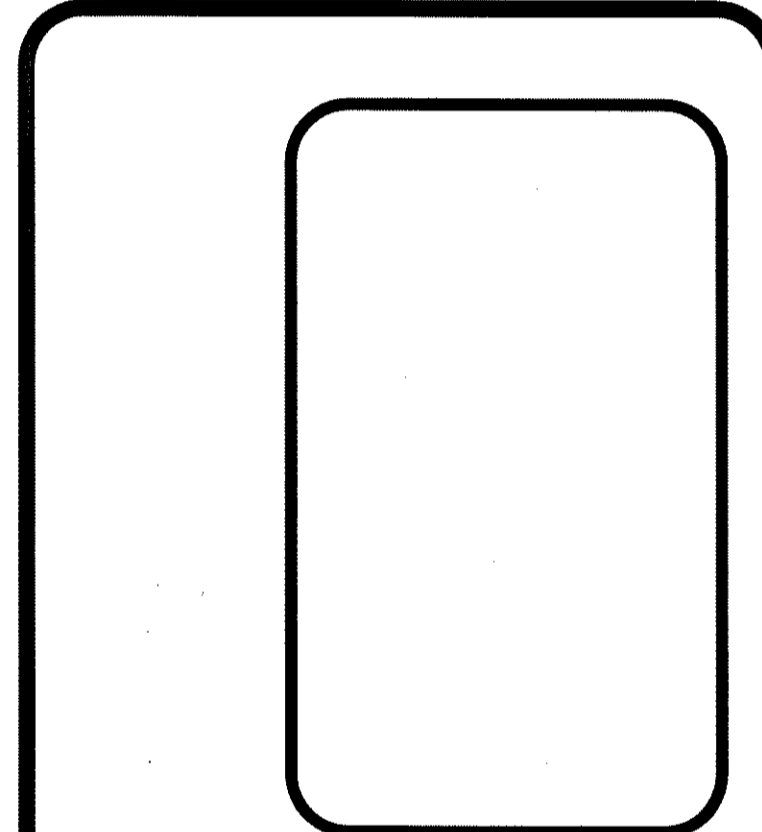
Charles A. Hester



OWNER/APPLICANT:
A.P. 19, LOT 89
TOWN OF NORTH SMITHFIELD
C/O ELEMENTARY SCHOOL
P.O. BOX 248
SLATERSVILLE, RI 02876

EXISTING CONDITIONS PLAN
FOR
A.P. 19, LOT 89
SITUATED ON
2214 PROVIDENCE PIKE
NORTH SMITHFIELD, RHODE ISLAND
PREPARED FOR
TOWN OF NORTH SMITHFIELD
C/O ELEMENTARY SCHOOL

NO.	REVISION	BY	DATE



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TEL. 401-273-6000

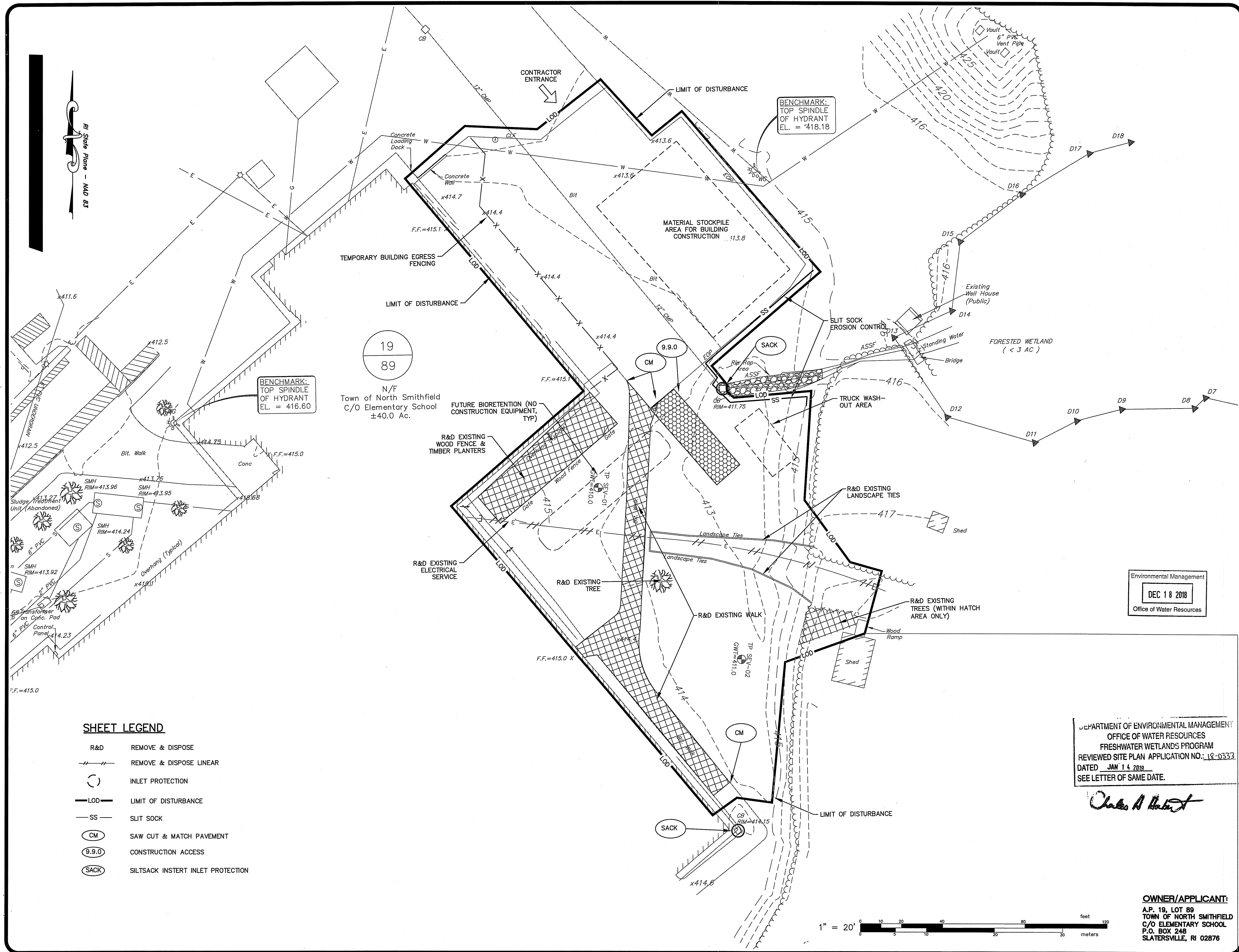
JOB NO. 7184.00	DRAWN BY K.Y.Y.
DWG. NO. 7184-00-Permit-Plan	CHECK BY S.S.H.
SCALE: AS SHOWN	APPROVED S.S.H.
	DATE: DECEMBER 18, 2018

SHEET

C-2

OF 9 SHEETS

RI State Plane - NAD 83



19
89

N/F
Town of North Smithfield
C/O Elementary School
±40.0 Ac.

Environmental Management
DEC 18 2018
Office of Water Resources

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
REVIEWED SITE PLAN APPLICATION NO.: 18-0333
DATED JAN 14 2019
SEE LETTER OF SAME DATE.

Charles A. Hart

SHEET LEGEND

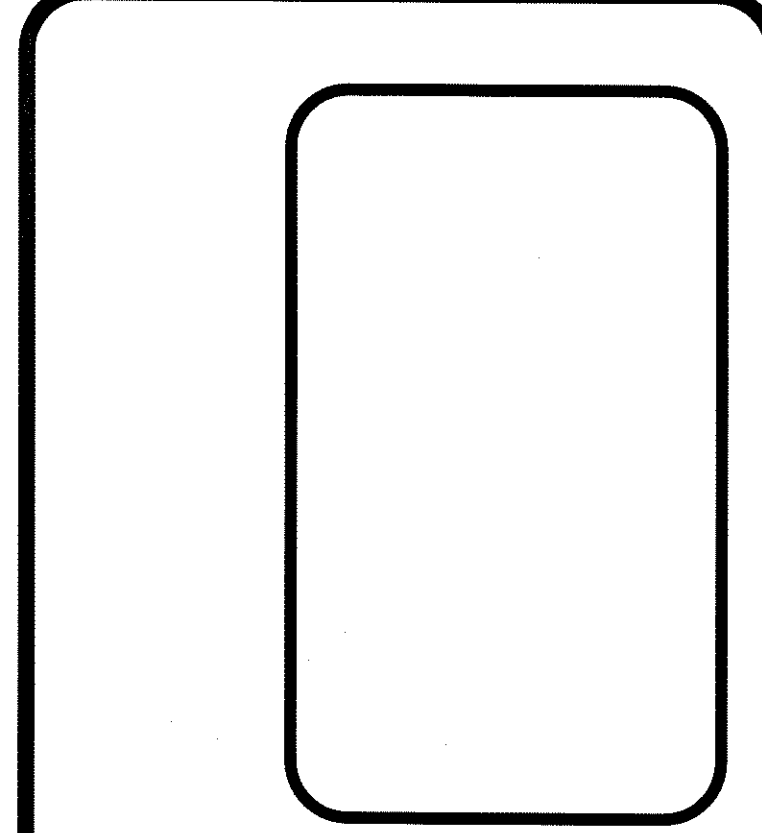
- R&D REMOVE & DISPOSE
- REMOVE & DISPOSE LINEAR
- () INLET PROTECTION
- LOD LIMIT OF DISTURBANCE
- SS SLIT SOCK
- (CM) SAW CUT & MATCH PAVEMENT
- (9.9.0) CONSTRUCTION ACCESS
- (SACK) SILTSACK INSTERT INLET PROTECTION



OWNER/APPLICANT:
A.P. 19, LOT 89
TOWN OF NORTH SMITHFIELD
C/O ELEMENTARY SCHOOL
P.O. BOX 248
SLATERSVILLE, RI 02876

DEMOLITION, SOIL EROSION & SEDIMENT CONTROL PLAN
FOR
A.P. 19, LOT 89
SITUATED ON
2214 PROVIDENCE PIKE
NORTH SMITHFIELD, RHODE ISLAND
PREPARED FOR
TOWN OF NORTH SMITHFIELD
C/O ELEMENTARY SCHOOL

NO.	REVISION	BY	DATE



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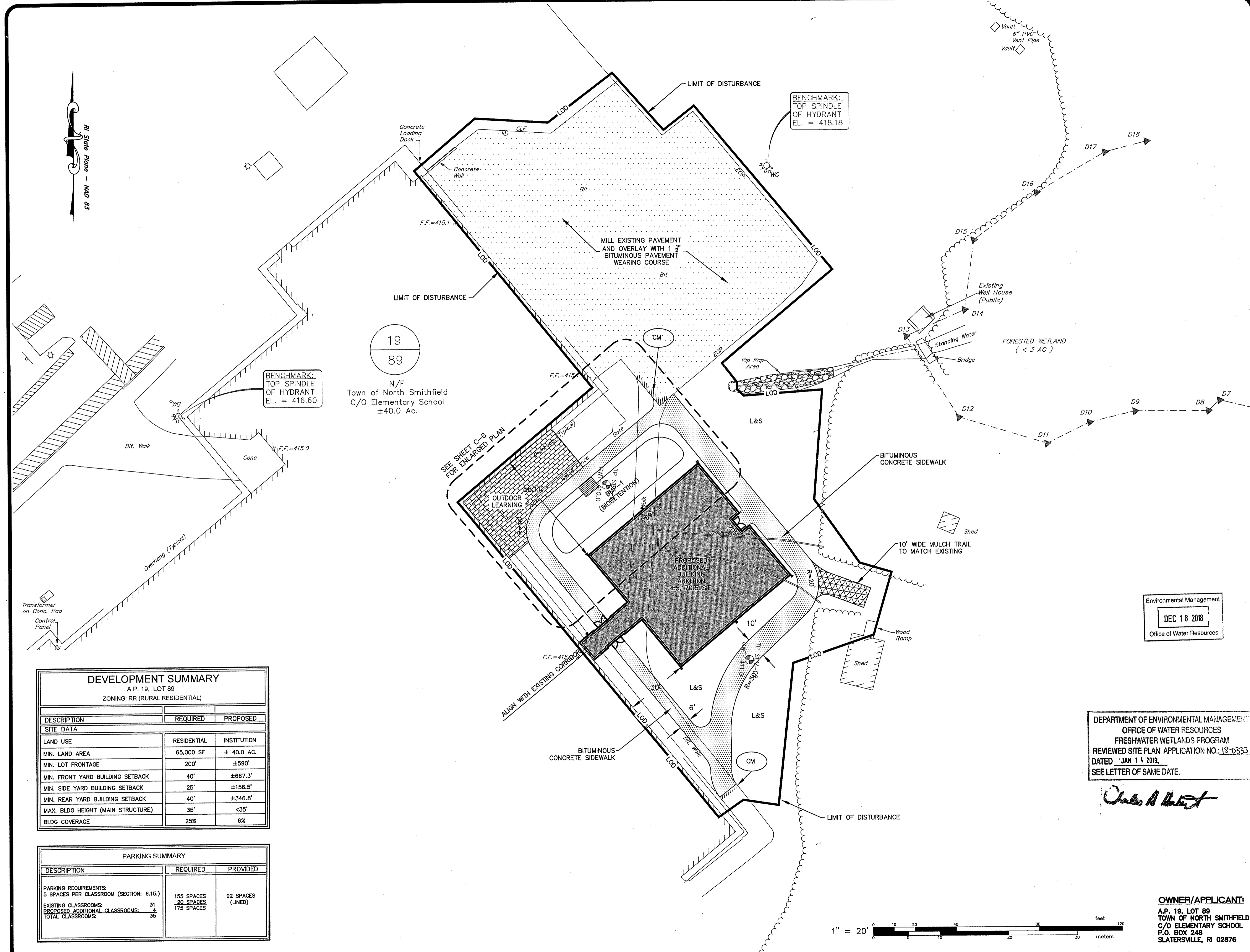
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PROVIDENCE, R.I. 02940
TEL. 401-273-6000

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	DATE: DECEMBER 18, 2018

SHEET
C-3
OF 9 SHEETS

R.I. State Plane - NAD 83



19
89

N/F
Town of North Smithfield
C/O Elementary School
±40.0 Ac.

BENCHMARK:
TOP SPINDLE
OF HYDRANT
EL. = 416.60

BENCHMARK:
TOP SPINDLE
OF HYDRANT
EL. = 418.18

Environmental Management
DEC 18 2018
Office of Water Resources

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
REVIEWED SITE PLAN APPLICATION NO. 18-0333
DATED JAN 14 2019
SEE LETTER OF SAME DATE.

Charles A. Hallett

OWNER/APPLICANT:
A.P. 19, LOT 89
TOWN OF NORTH SMITHFIELD
C/O ELEMENTARY SCHOOL
P.O. BOX 248
SLATERSVILLE, RI 02876



DEVELOPMENT SUMMARY		
A.P. 19, LOT 89		
ZONING: RR (RURAL RESIDENTIAL)		
DESCRIPTION	REQUIRED	PROPOSED
SITE DATA		
LAND USE	RESIDENTIAL	INSTITUTION
MIN. LAND AREA	65,000 SF	± 40.0 AC.
MIN. LOT FRONTAGE	200'	±590'
MIN. FRONT YARD BUILDING SETBACK	40'	±667.3'
MIN. SIDE YARD BUILDING SETBACK	25'	±156.5'
MIN. REAR YARD BUILDING SETBACK	40'	±346.8'
MAX. BLDG HEIGHT (MAIN STRUCTURE)	35'	<35'
BLDG COVERAGE	25%	6%

PARKING SUMMARY		
DESCRIPTION	REQUIRED	PROVIDED
PARKING REQUIREMENTS: 5 SPACES PER CLASSROOM (SECTION: 6.15.)		
EXISTING CLASSROOMS:	155 SPACES	92 SPACES
PROPOSED ADDITIONAL CLASSROOMS:	20 SPACES	(LINED)
TOTAL CLASSROOMS:	175 SPACES	

SITE LAYOUT PLAN
FOR
A.P. 19, LOT 89
SITUATED ON
2214 PROVIDENCE PIKE
PREPARED FOR
TOWN OF NORTH SMITHFIELD
C/O ELEMENTARY SCHOOL

NO.	REVISION	BY	DATE

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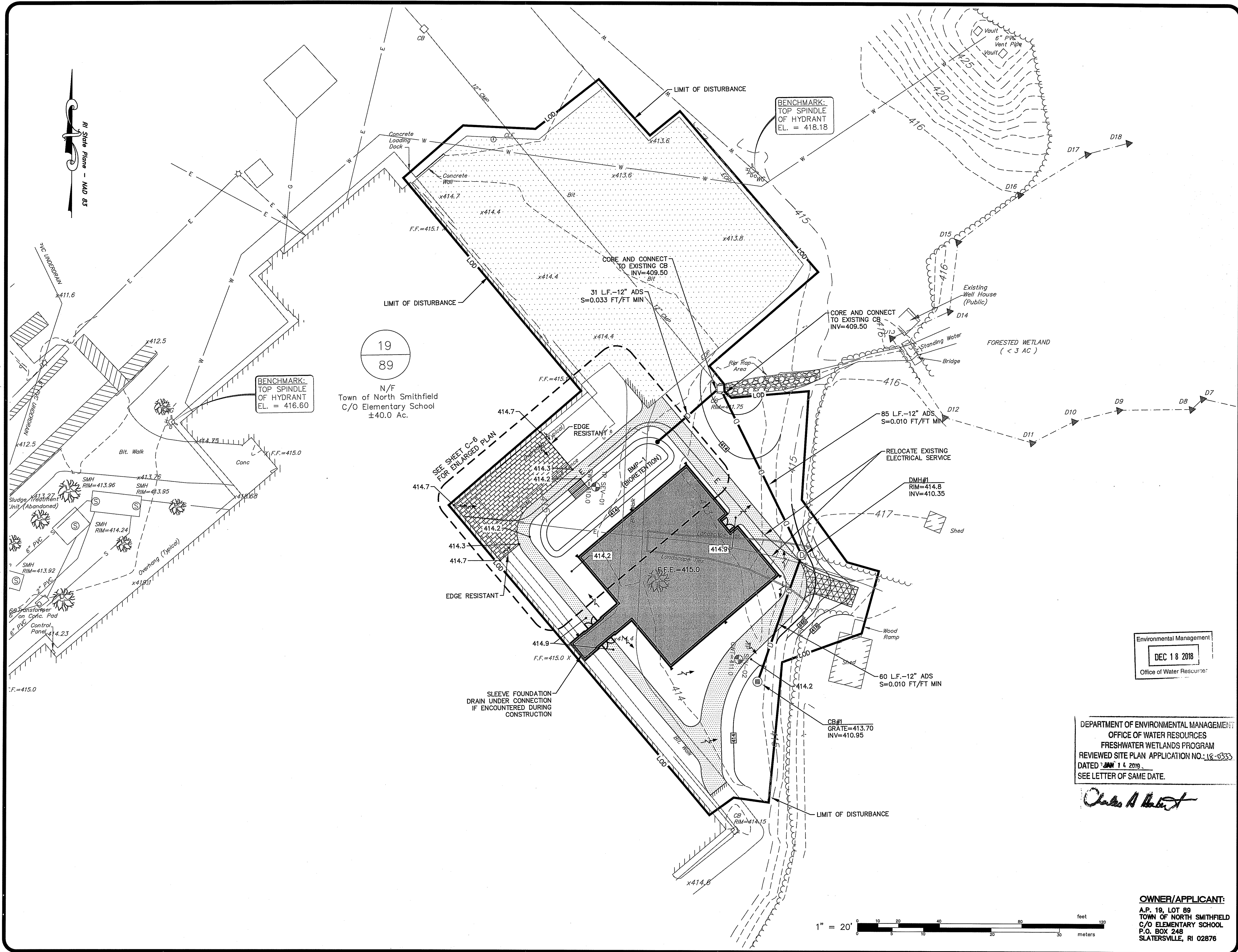
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	DATE: DECEMBER 18, 2018

SHEET
C-4
OF 9 SHEETS

R1 State Plane - NAD 83



19
89

N/F
Town of North Smithfield
C/O Elementary School
±40.0 Ac.

BENCHMARK:
TOP SPINDLE
OF HYDRANT
EL. = 418.18

BENCHMARK:
TOP SPINDLE
OF HYDRANT
EL. = 416.60

Environmental Management
DEC 18 2018
Office of Water Resources

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
REVIEWED SITE PLAN APPLICATION NO.: 18-0333
DATED: JAN 14 2019
SEE LETTER OF SAME DATE.

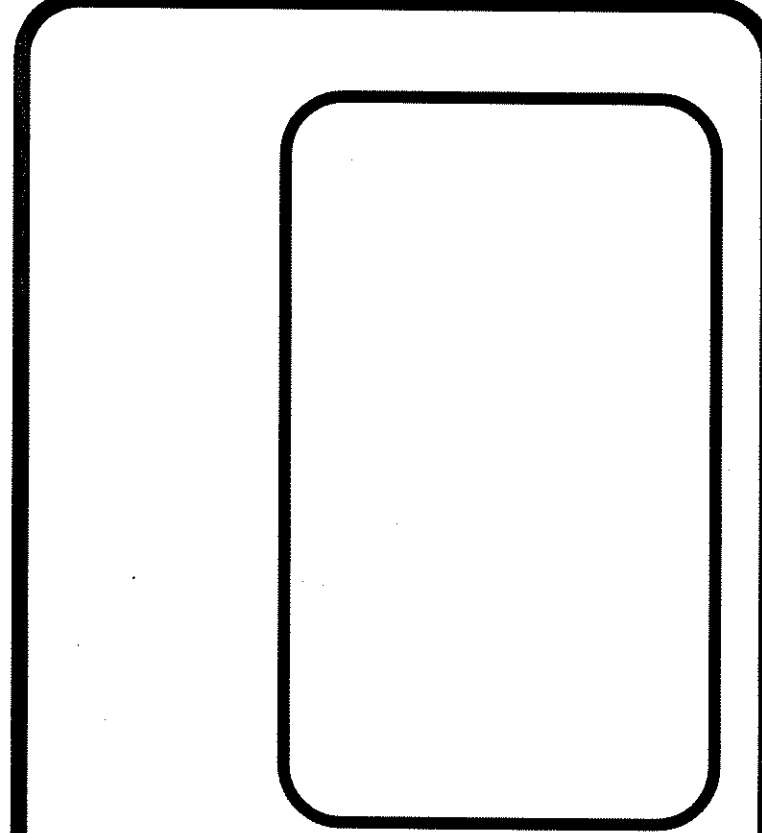
Charles A. Hester



OWNER/APPLICANT:
A.P. 19, LOT 89
TOWN OF NORTH SMITHFIELD
C/O ELEMENTARY SCHOOL
P.O. BOX 246
SLATERSVILLE, RI 02876

GRADING, DRAINAGE &
UTILITIES PLAN
FOR
A.P. 19, LOT 89
SITUATED ON
2214 PROVIDENCE PIKE
NORTH SMITHFIELD, RHODE ISLAND
PREPARED FOR
TOWN OF NORTH SMITHFIELD
C/O ELEMENTARY SCHOOL

NO.	REVISION	BY	DATE



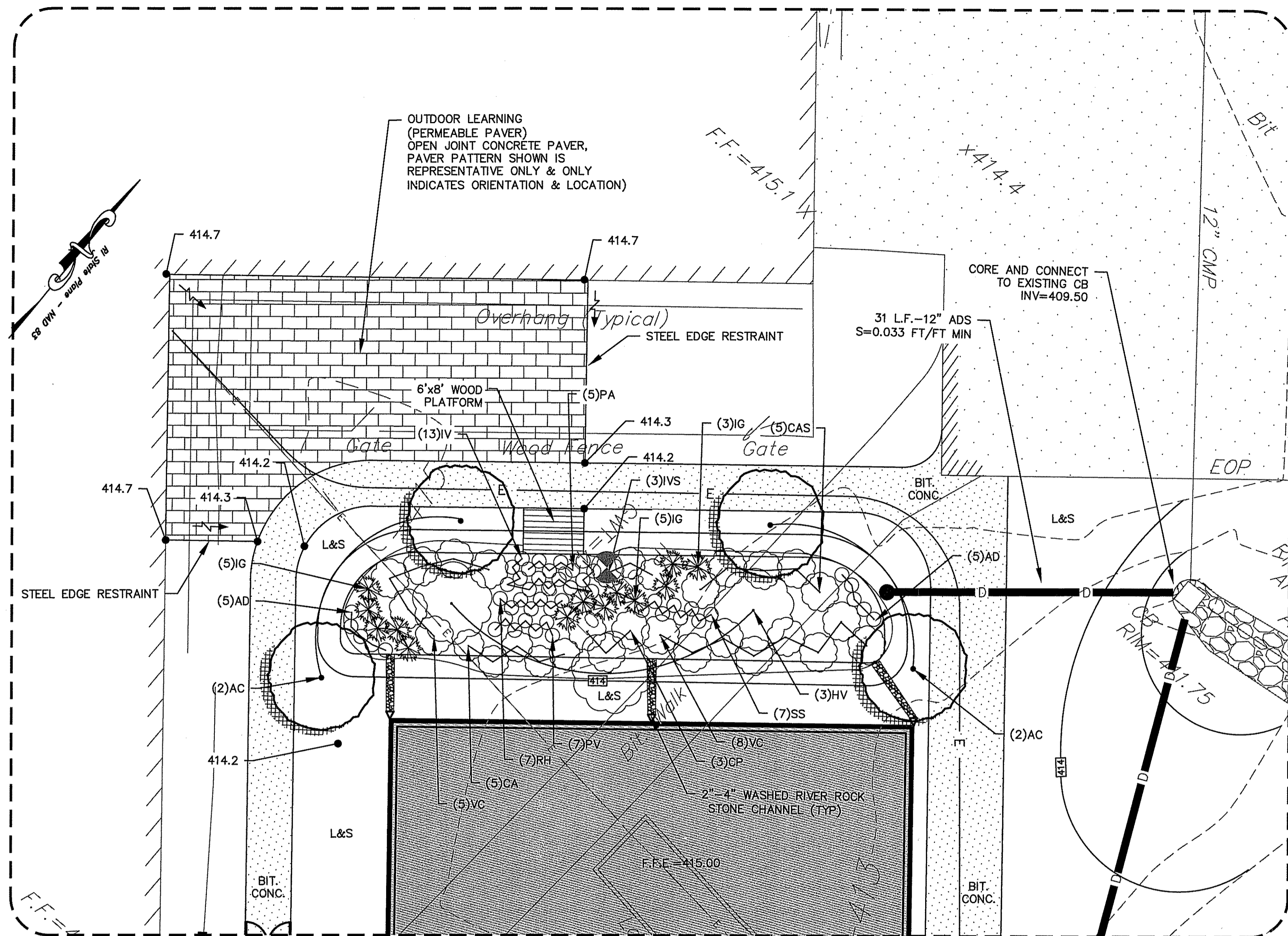
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TEL. 401-273-8000

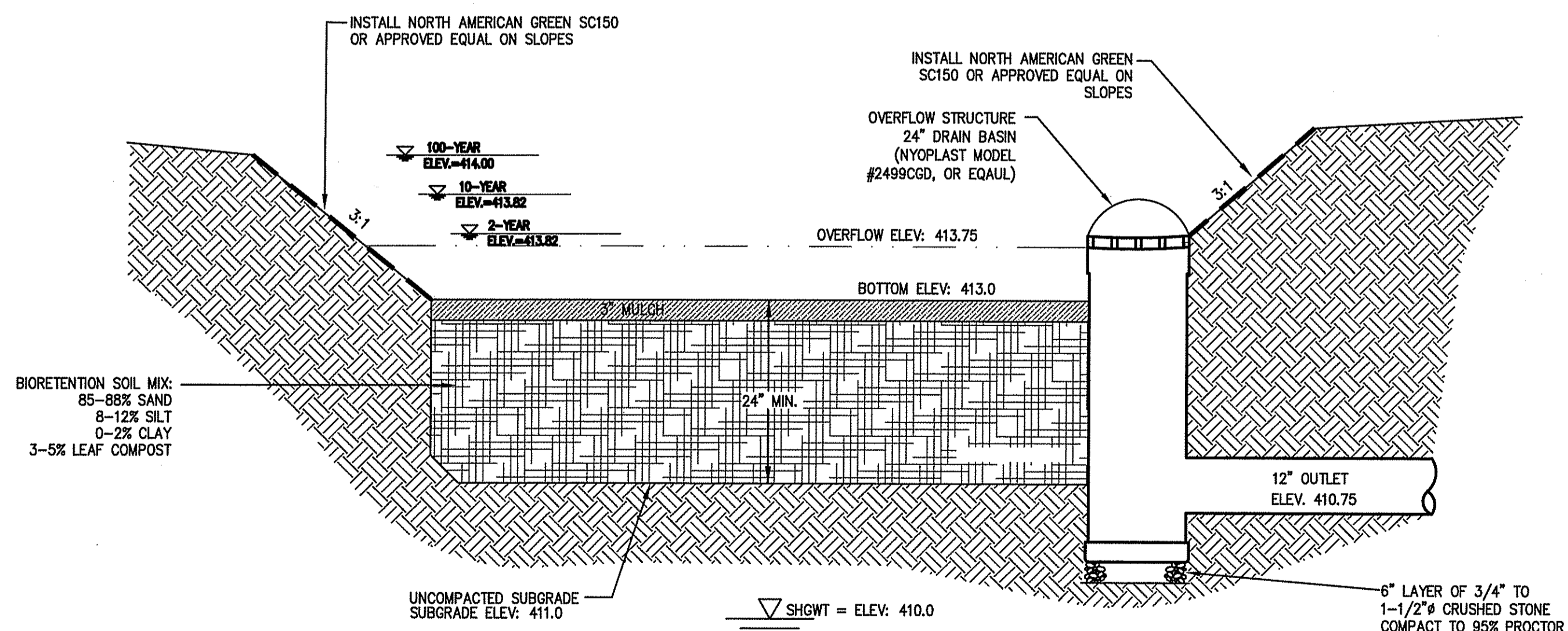
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SHEET
C-5
OF 9 SHEETS



ENLARGED PLAN
SCALE 1"=10'



NOTES:
1. CONTRACTOR SHALL SUBMIT A SIEVE ANALYSIS OF BIORETENTION SOIL MIX TO ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.

BIORETENTION BASIN SECTION

N.T.S.

BIORETENTION PLANT LIST:

FLOWERING TREES				
KEY	BOTANICAL NAME COMMON NAME	QTY.	SIZE	NOTE
AC	AMELANCHIER CANADENSIS SHADDBLOW SERVICEBERRY	4	7'-9" CLUMP	

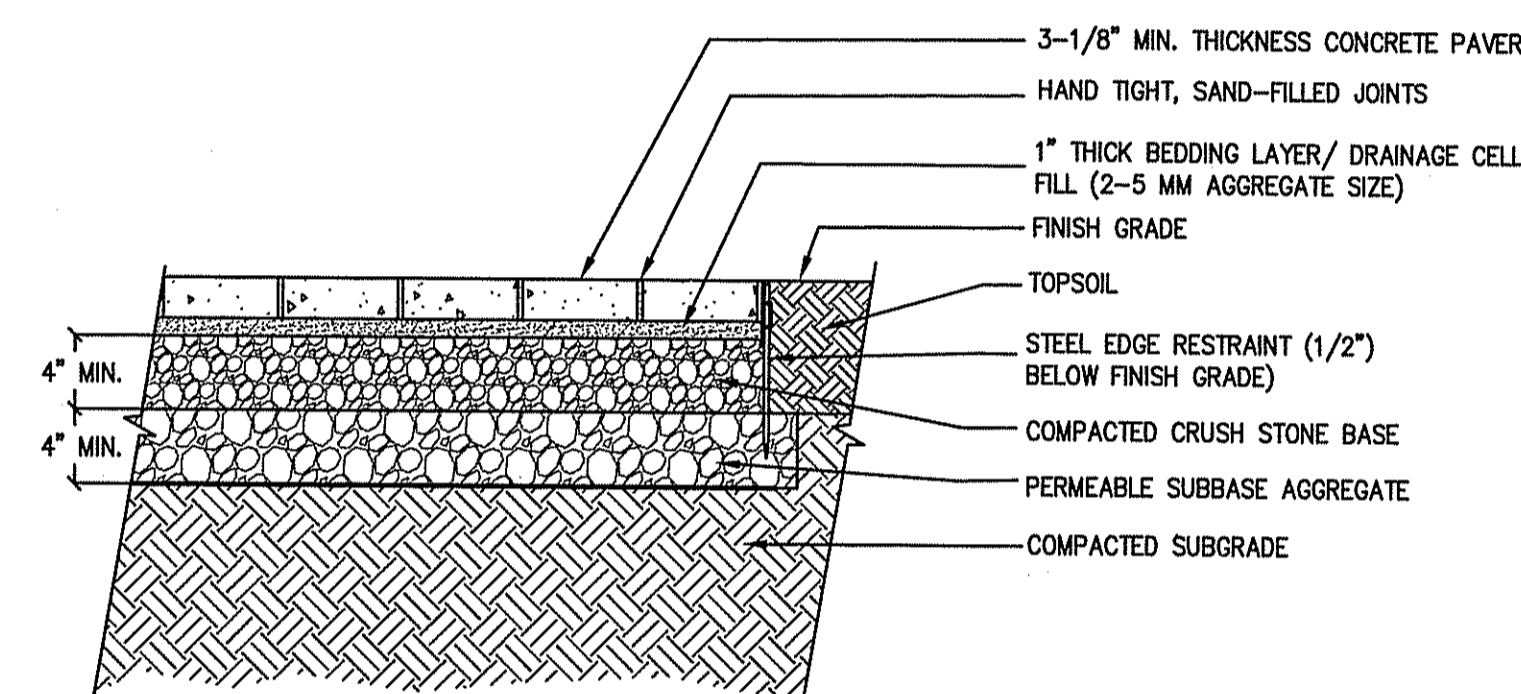
EVERGREEN/ DECIDUOUS SHRUBS				
KEY	BOTANICAL NAME COMMON NAME	QTY.	SIZE	NOTE
CA	CORNUS ALBA 'SIBIRICA' SIBIRICA RED TWIG DOGWOOD	5	# 3 CONTAINER	
CAS	CLETHRA ALNIFOLIA 'SIXTEEN CANDLES' SIXTEEN CANDLES SUMMERSWEET	5	# 3 CONTAINER	
CP	COMPTONIA PERGRINA SWEET FERN	3	# 3 CONTAINER	
HV	HAMAMELIS VIRGINIANA WITCH HAZEL	3	#5 CONTAINER	
IG	ILEX GLABRA 'COMPACTA' COMPACT HICKBERRY	13	# 3 CONTAINER	
IVS	ILEX VERTICILLATA 'SPARKLEBERRY' SPARKLEBERRY WINTERBERRY	3	# 3 CONTAINER	
VC	VACCINIUM CORYMBOSUM HIGHBUSH BLUEBERRY	13	# 3 CONTAINER	

PERENNIALS/GROUNDCOVERS/ VINES				
KEY	BOTANICAL NAME COMMON NAME	QTY.	SIZE	NOTE
AD	ASTER DIVARICATUS WHITE WOOD ASTER	10	#2 CONTAINER	
IV	IRIS VERSICOLOR BLUE FLAG IRIS	13	#1 CONTAINER	
PA	PENNISETUM ALOPECUROIDES 'LITTLE BUNNY' LITTLE BUNNY FOUNTAIN GRASS	5	#2 CONTAINER	
PV	PANICUM VIGATUM SWITCH GRASS	7	#2 CONTAINER	
RH	RUDBECKIA HIRTA BLACK EYED SUSAN	7	#2 CONTAINER	
SS	SCHIZACHYRIUM SCOPARIUM LITTLE BLUESTEM	7	#2 CONTAINER	

GENERAL SEEDING MIX (L&S)

	PERCENT BY WEIGHT	PERCENT BY VOLUME
CHEWINGS FESCUE IMPROVED VARIETIES	30	85
KENTUCKY BLUEGRASS IMPROVED VARIETIES	30	90
PERENNIAL RYEGRASS IMPROVED VARIETIES	40	90

APPLICATION RATE: 200 LBS / ACRE



- NOTES:
- PERMEABLE PAVERS SHALL BE UNILOCK TOWN HALL, OR APPROVED EQUAL.
 - PERMEABLE PAVERS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS. AGGREGATE COURSE REQUIREMENTS MAY DIFFER.
 - PROTECT PERMEABLE PAVER AREA AND AGGREGATES FROM CONSTRUCTION VEHICLE TRAFFIC.

PERMEABLE PAVER SECTION

N.T.S.

Environmental Management
DEC 18 2018
Office of Water Resources

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
REVIEWED SITE PLAN APPLICATION NO.: 18-0333
DATED: JAN 11 2018
SEE LETTER OF SAME DATE.

Charles A. Hester

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LAND PLANNERS/ENVIRONMENTAL SCIENTISTS

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TEL. 401-273-6000

JOB NO. 7184.00
DWG. NO. 7184-00-Permit-Plan
SCALE: AS SHOWN
DRAWN BY K.Y.Y.
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APPROVED S.S.H.
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SHEET

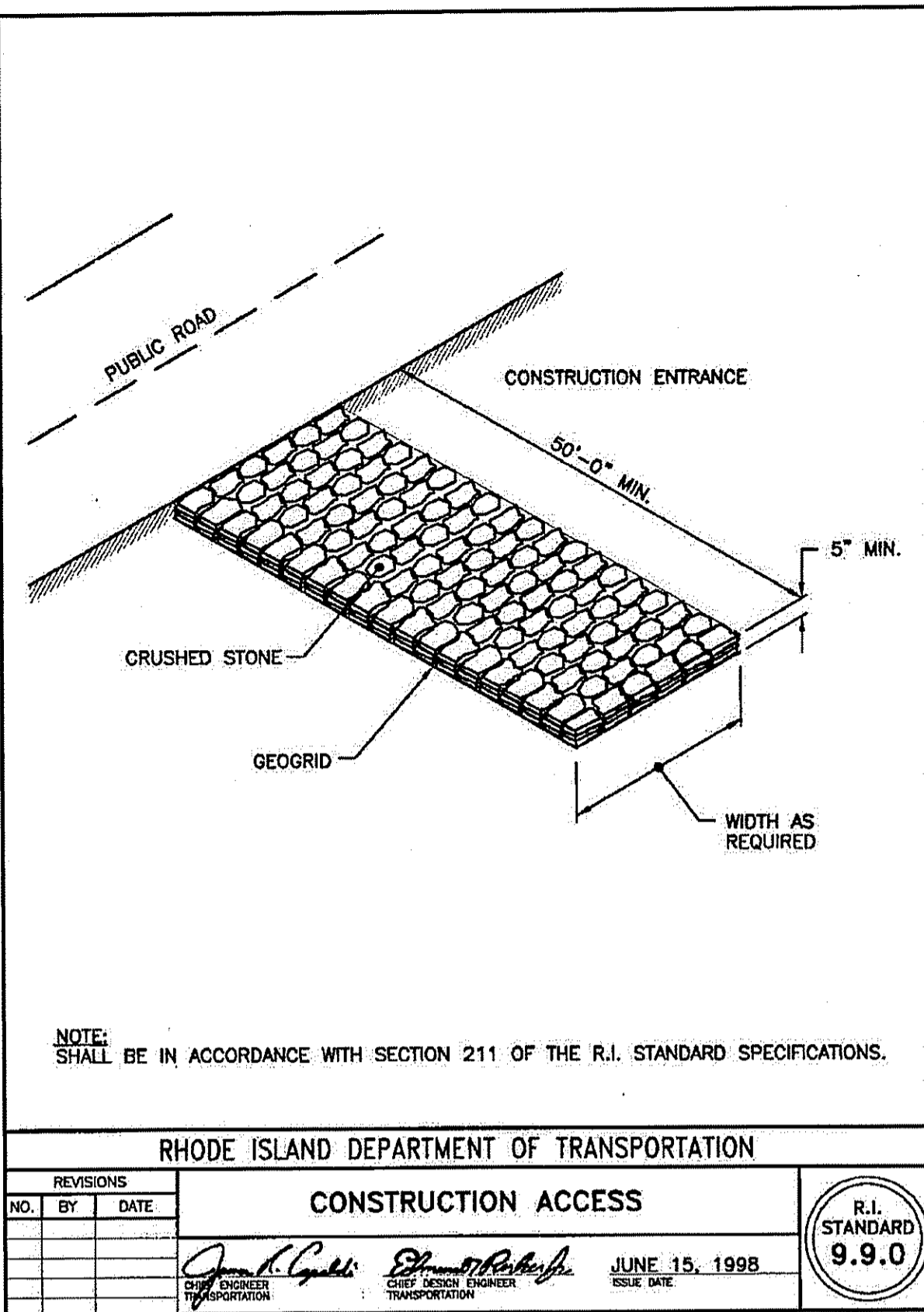
C-6

OF 9 SHEETS

OWNER/APPLICANT:
A.P. 19, LOT 89
TOWN OF NORTH SMITHFIELD
C/O ELEMENTARY SCHOOL
P.O. BOX 248
SLATERSVILLE, RI 02876

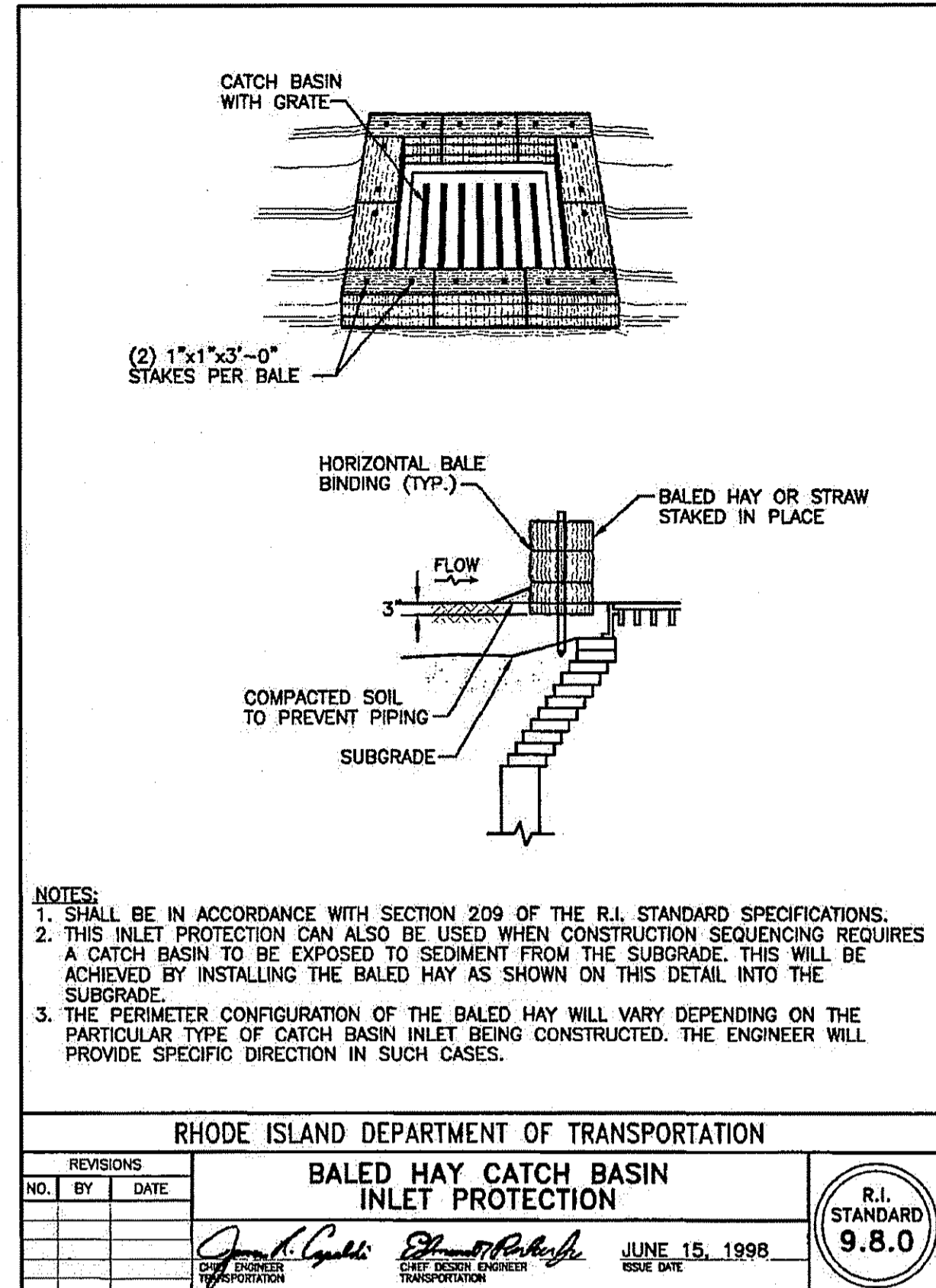
ENLARGED PLAN
FOR
A.P. 19, LOT 89
SITUATED ON
2214 PROVIDENCE PIKE
NORTH SMITHFIELD, RHODE ISLAND
PREPARED FOR
TOWN OF NORTH SMITHFIELD
C/O ELEMENTARY SCHOOL

NO.	REVISION	BY	DATE



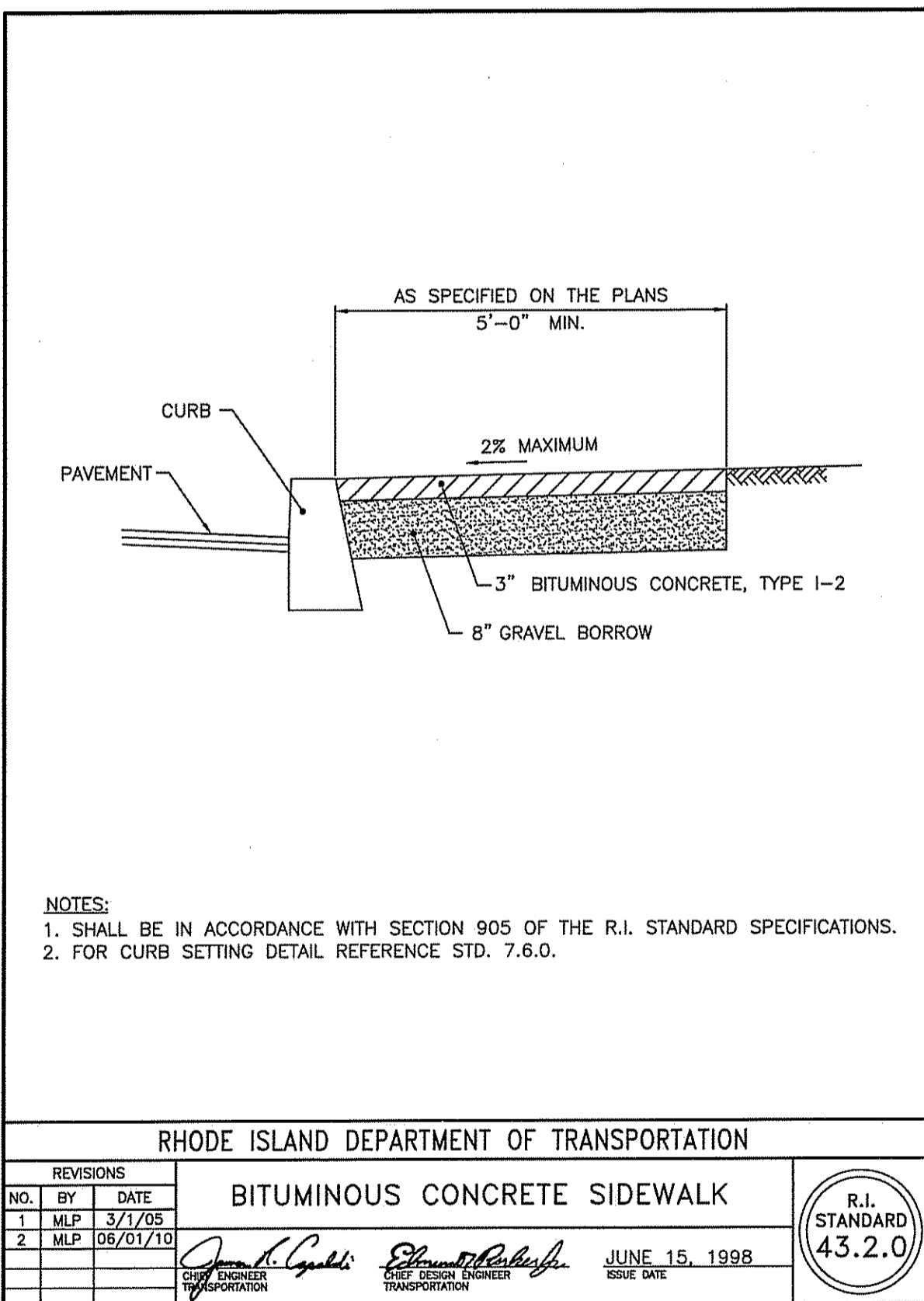
NOTE: SHALL BE IN ACCORDANCE WITH SECTION 211 OF THE R.I. STANDARD SPECIFICATIONS.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
CONSTRUCTION ACCESS
 R.I. STANDARD 9.9.0
 JUNE 15, 1998



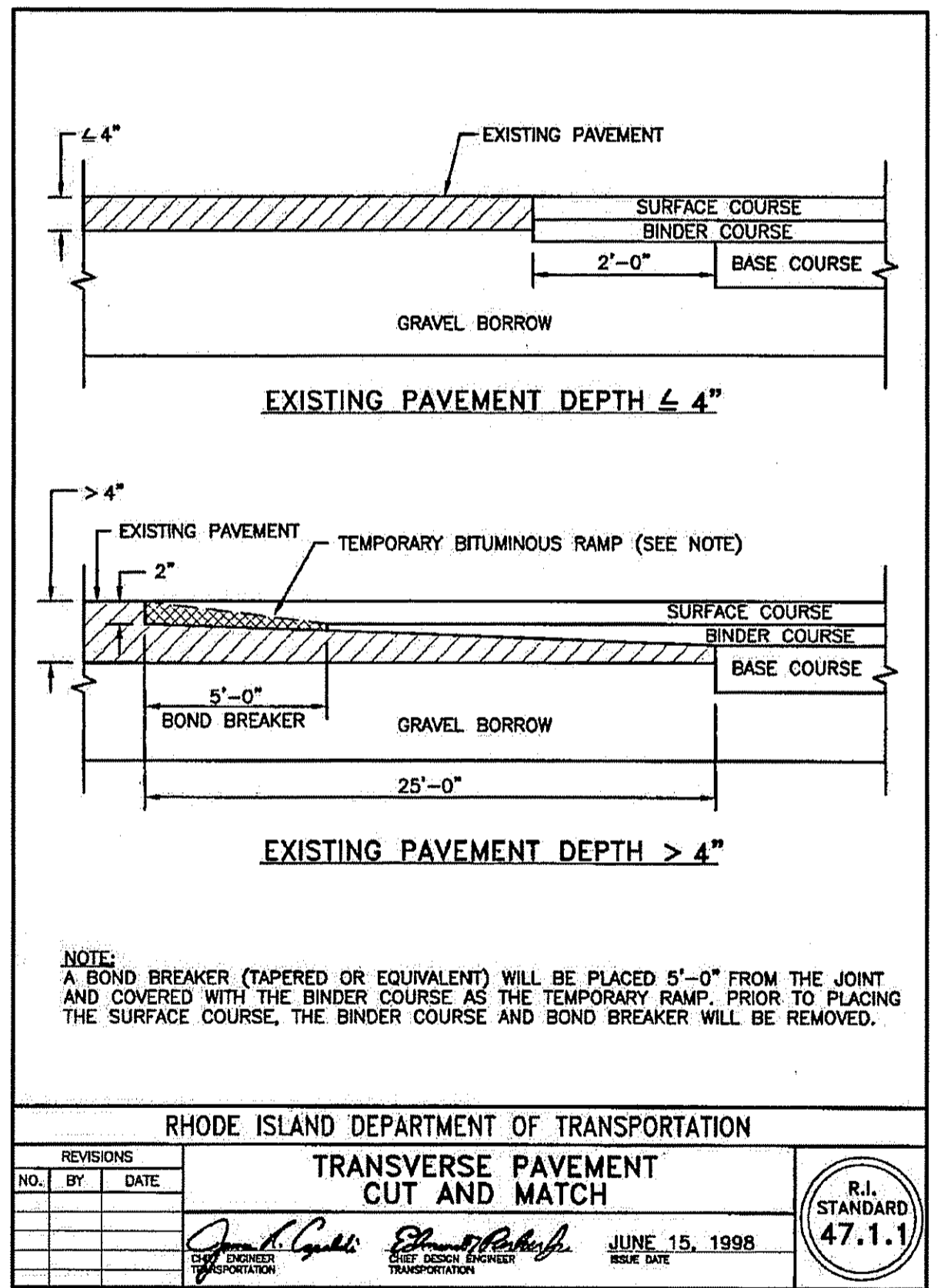
NOTES:
 1. SHALL BE IN ACCORDANCE WITH SECTION 209 OF THE R.I. STANDARD SPECIFICATIONS.
 2. THIS INLET PROTECTION CAN ALSO BE USED WHEN CONSTRUCTION SEQUENCING REQUIRES A CATCH BASIN TO BE EXPOSED TO SEDIMENT FROM THE SUBGRADE. THIS WILL BE ACHIEVED BY INSTALLING THE BALED HAY AS SHOWN ON THIS DETAIL INTO THE SUBGRADE.
 3. THE PERIMETER CONFIGURATION OF THE BALED HAY WILL VARY DEPENDING ON THE PARTICULAR TYPE OF CATCH BASIN INLET BEING CONSTRUCTED. THE ENGINEER WILL PROVIDE SPECIFIC DIRECTION IN SUCH CASES.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
BALED HAY CATCH BASIN INLET PROTECTION
 R.I. STANDARD 9.8.0
 JUNE 15, 1998



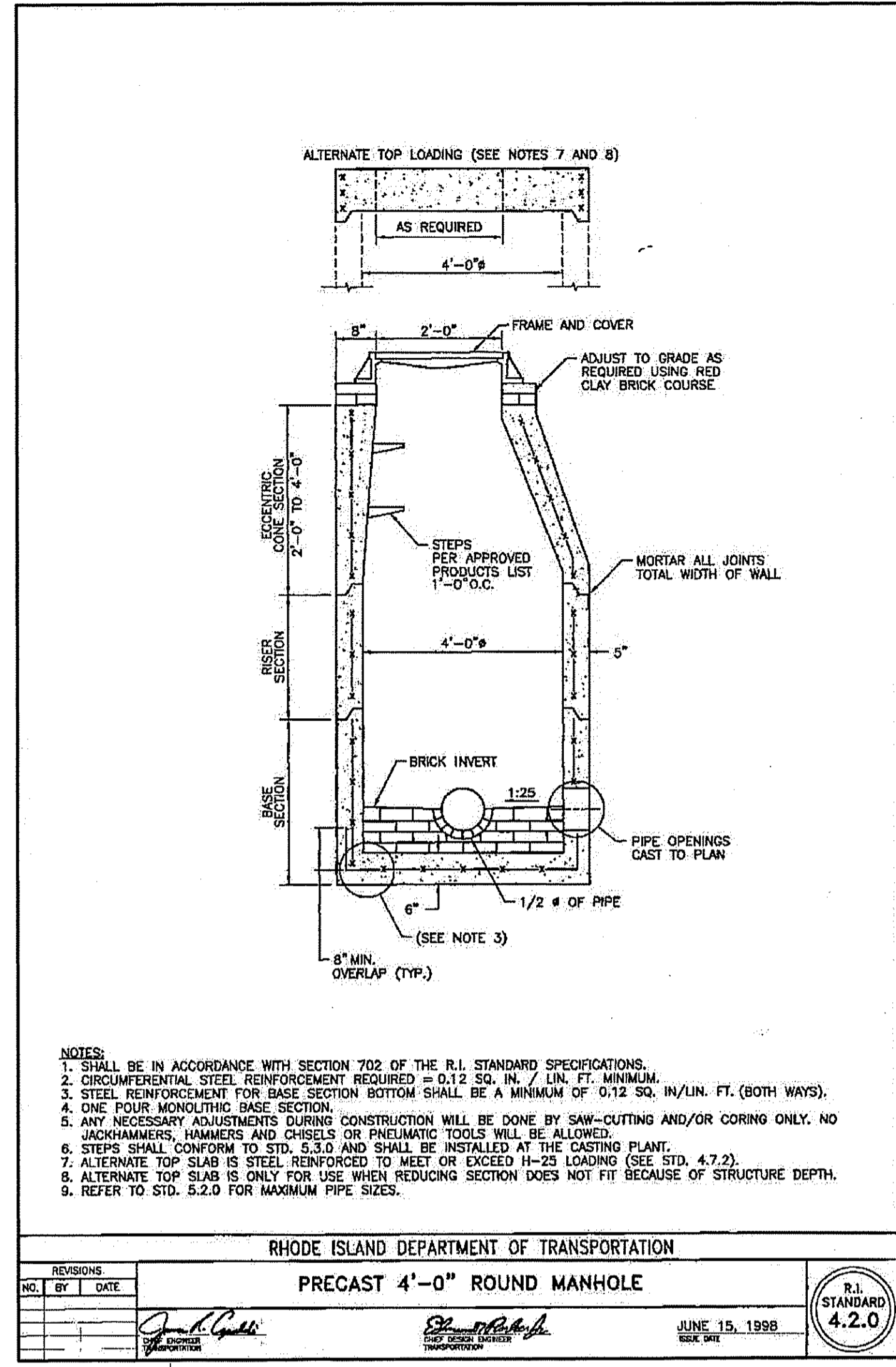
NOTES:
 1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
 2. FOR CURB SETTING DETAIL REFERENCE STD. 7.6.0.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
BITUMINOUS CONCRETE SIDEWALK
 R.I. STANDARD 43.2.0
 JUNE 15, 1998



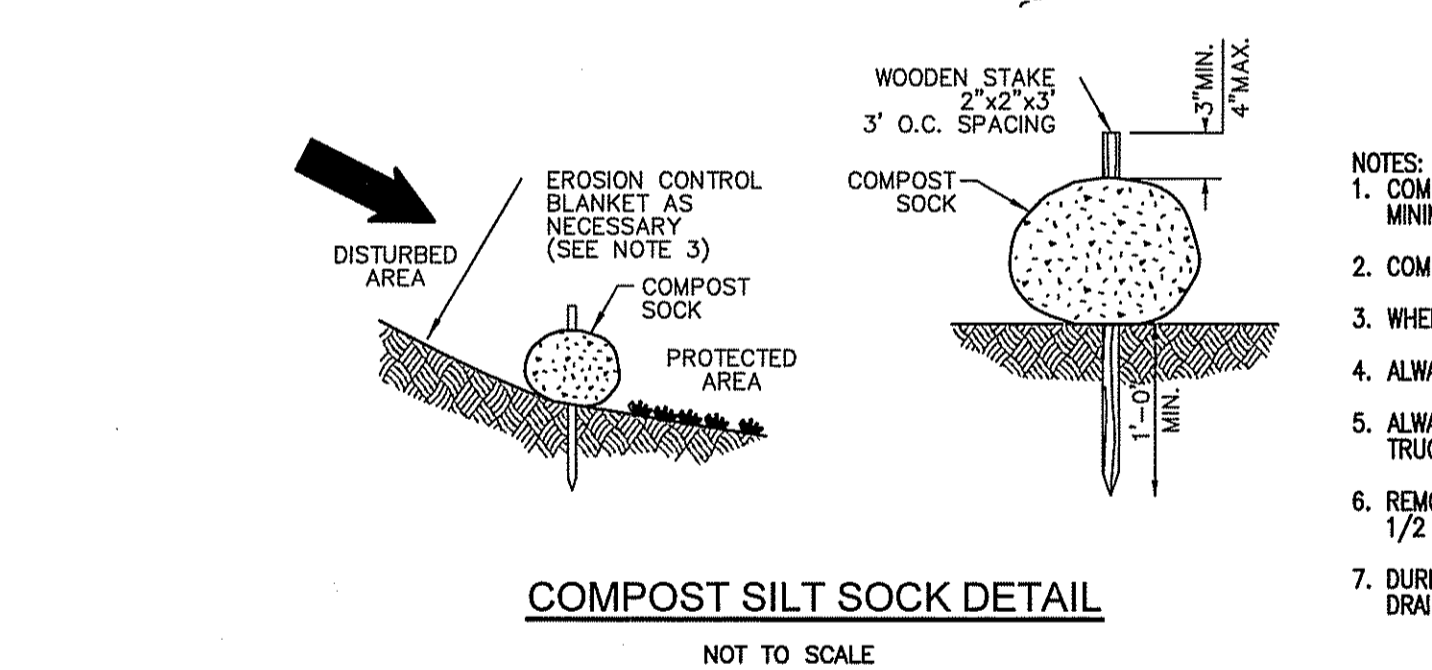
NOTE:
 A BOND BREAKER (TAPERED OR EQUIVALENT) WILL BE PLACED 5'-0" FROM THE JOINT AND COVERED WITH THE BINDER COURSE AS THE TEMPORARY RAMP. PRIOR TO PLACING THE SURFACE COURSE, THE BINDER COURSE AND BOND BREAKER WILL BE REMOVED.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
TRANSVERSE PAVEMENT CUT AND MATCH
 R.I. STANDARD 47.1.1
 JUNE 15, 1998

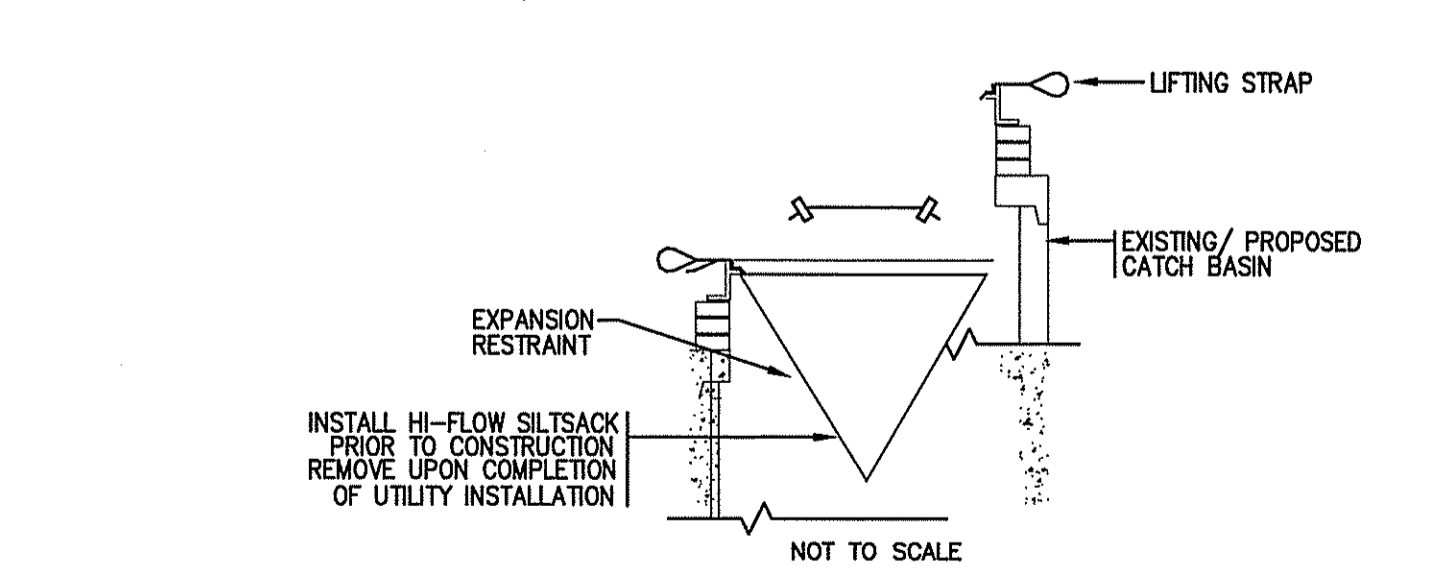


NOTES:
 1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
 2. CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED = 0.12 SQ. IN. / LIN. FT. MINIMUM.
 3. STEEL REINFORCEMENT FOR BASE SECTION BOTTOM SHALL BE A MINIMUM OF 0.12 SQ. IN./LIN. FT. (BOTH WAYS).
 4. ONE FOUR MONOLITHIC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

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
PRECAST 4'-0" ROUND MANHOLE
 R.I. STANDARD 4.2.0
 JUNE 15, 1998

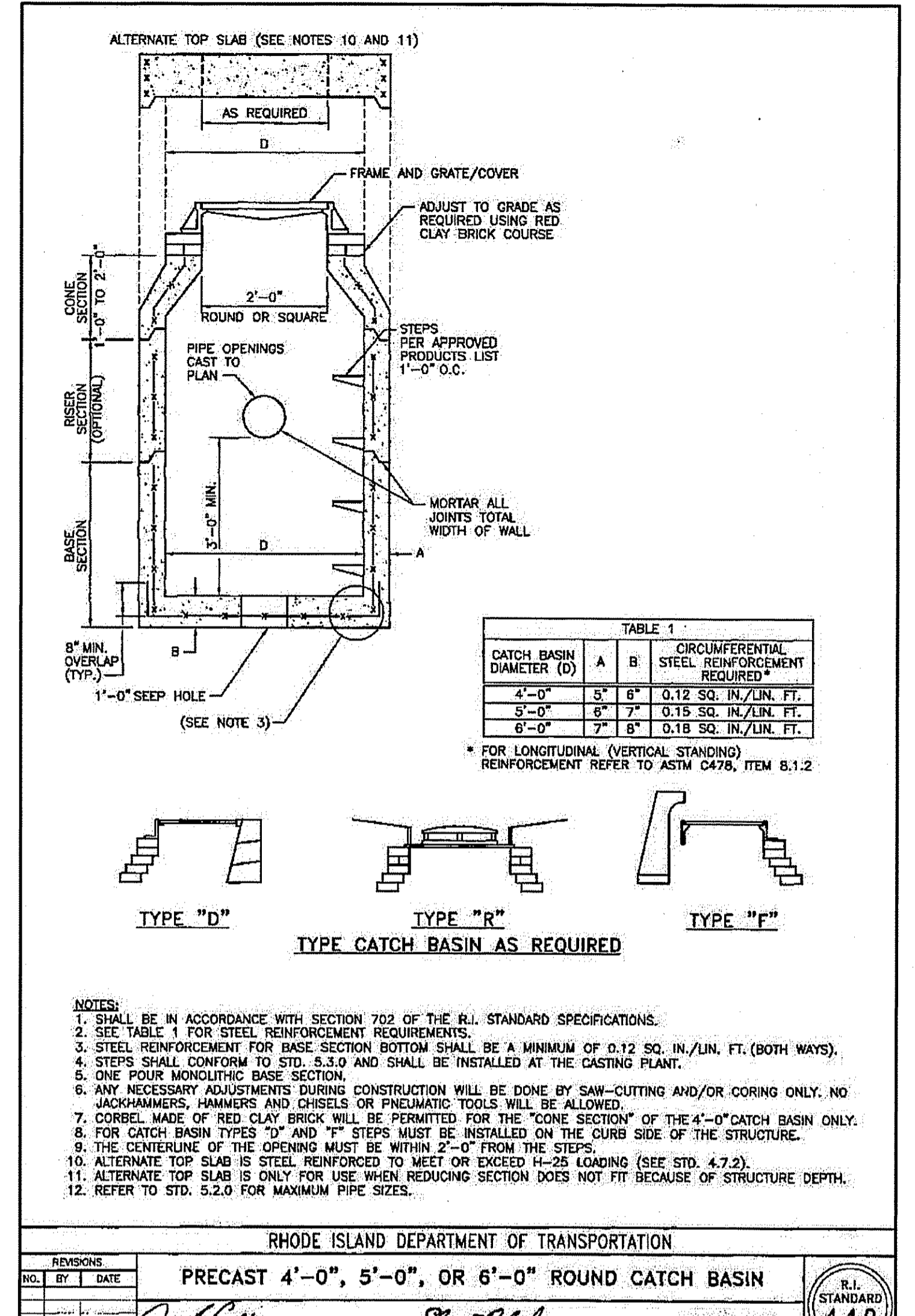


NOTES:
 1. COMPOST SOCK SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS. COMPOST SOCK SHALL BE A MINIMUM OF 8" IN DIAMETER.
 2. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY THE ENGINEER.
 3. WHEN PLACING COMPOST SOCK ON SLOPES, USE EROSION CONTROL BLANKET IF SPECIFIED ON PLANS.
 4. ALWAYS INSTALL COMPOST SOCK PERPENDICULAR TO SLOPE AND ALONG CONTOUR LINES.
 5. ALWAYS INSTALL COMPOST SOCK ALONG SLOPE PERPENDICULAR TO FLOW AROUND SEDIMENT STORAGE AND TRUCK WASH-OUT AREAS.
 6. REMOVE SEDIMENT FROM THE UP SLOPE SIDE OF THE COMPOST SOCK WHEN ACCUMULATION HAS REACHED 1/2 OF THE EFFECTIVE HEIGHT OF THE COMPOST SOCK.
 7. DURING CONSTRUCTION, THE CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING STORMS AND PERIODS OF RAINFALL.



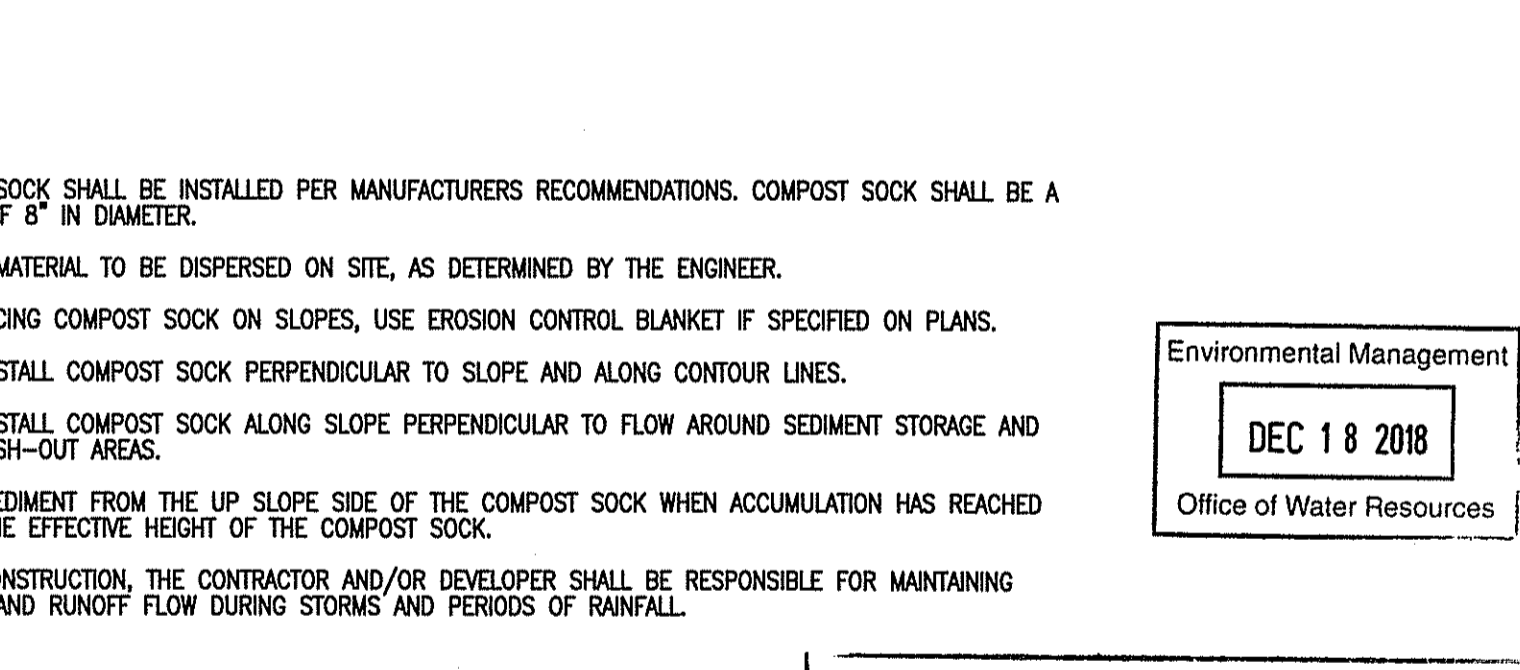
INSTALL HI-FLOW SILTSACK PRIOR TO CONSTRUCTION REMOVE UPON COMPLETION OF UTILITY INSTALLATION

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
INLET PROTECTION / SILTSACK AT CATCH BASIN
 R.I. STANDARD 4.4.0
 JUNE 15, 1998

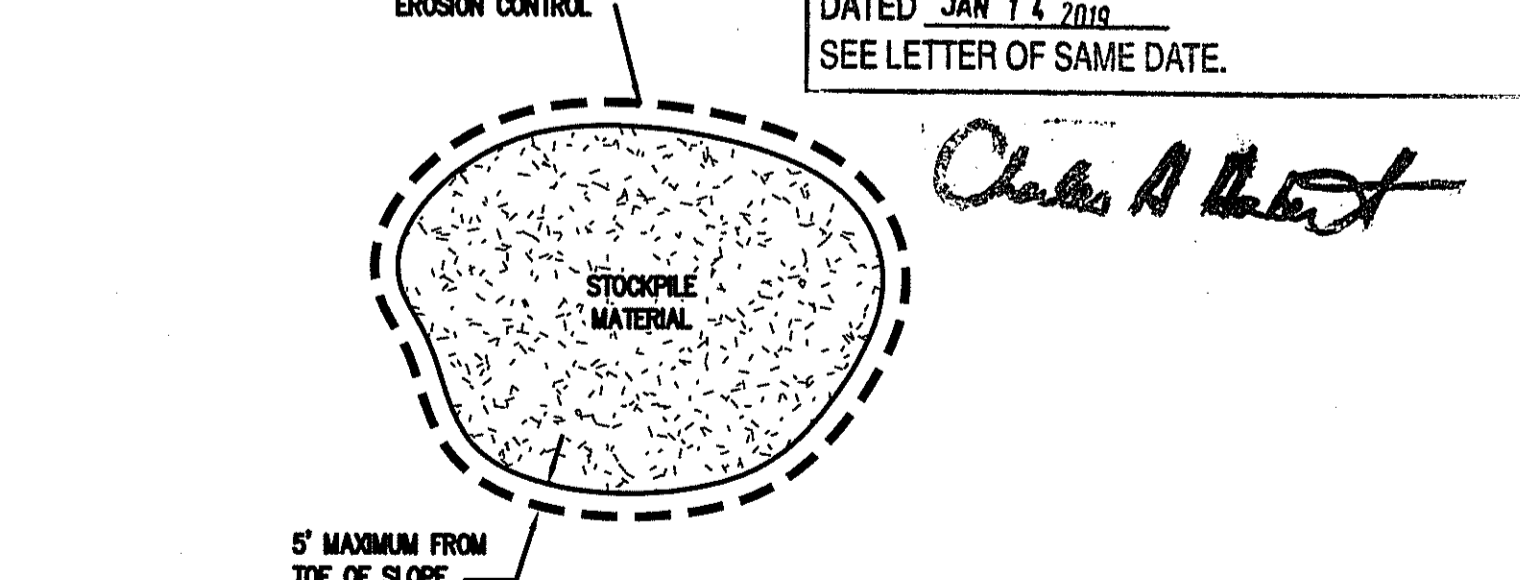


NOTES:
 1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
 2. SEE TABLE 1 FOR STEEL REINFORCEMENT REQUIREMENTS.
 3. STEEL REINFORCEMENT FOR BASE SECTION BOTTOM SHALL BE A MINIMUM OF 0.12 SQ. IN./LIN. FT. (BOTH WAYS).
 4. STEPS SHALL CONFORM TO STD. 5.3.0 AND SHALL BE INSTALLED AT THE CASTING PLANT.
 5. ONE FOUR 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.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
PRECAST 4'-0", 5'-0", OR 6'-0" ROUND CATCH BASIN
 R.I. STANDARD 4.4.0
 JUNE 15, 1998



NOTES:
 1. COMPOST SOCK SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS. COMPOST SOCK SHALL BE A MINIMUM OF 8" IN DIAMETER.
 2. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY THE ENGINEER.
 3. WHEN PLACING COMPOST SOCK ON SLOPES, USE EROSION CONTROL BLANKET IF SPECIFIED ON PLANS.
 4. ALWAYS INSTALL COMPOST SOCK PERPENDICULAR TO SLOPE AND ALONG CONTOUR LINES.
 5. ALWAYS INSTALL COMPOST SOCK ALONG SLOPE PERPENDICULAR TO FLOW AROUND SEDIMENT STORAGE AND TRUCK WASH-OUT AREAS.
 6. REMOVE SEDIMENT FROM THE UP SLOPE SIDE OF THE COMPOST SOCK WHEN ACCUMULATION HAS REACHED 1/2 OF THE EFFECTIVE HEIGHT OF THE COMPOST SOCK.
 7. DURING CONSTRUCTION, THE CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING STORMS AND PERIODS OF RAINFALL.

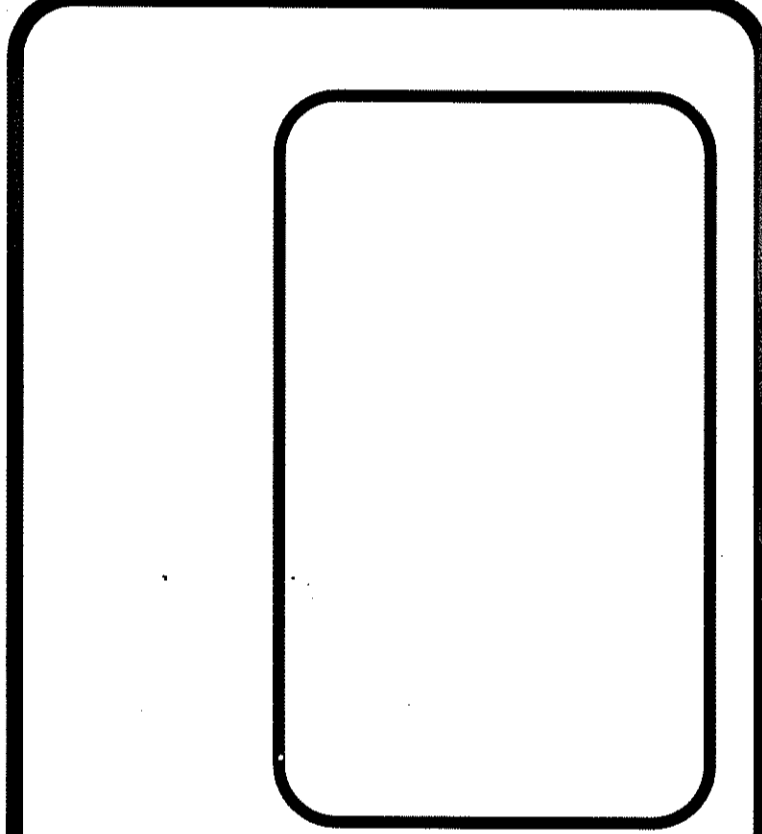


INSTALL HI-FLOW SILTSACK PRIOR TO CONSTRUCTION REMOVE UPON COMPLETION OF UTILITY INSTALLATION

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
INLET PROTECTION / SILTSACK AT CATCH BASIN
 R.I. STANDARD 4.4.0
 JUNE 15, 1998

CONSTRUCTION DETAIL-1
 FOR
 A.P. 19, LOT 89
 SITUATED ON
 2214 PROVIDENCE PIKE
 PREPARED FOR
 NORTH SMITHFIELD, RHODE ISLAND
 TOWN OF NORTH SMITHFIELD
 C/O ELEMENTARY SCHOOL

NO.	REVISION	BY	DATE



GAROFALO
 GAROFALO & ASSOCIATES, INC.
 CIVIL & STRUCTURAL ENGINEERS/SURVEYORS
 LAND PLANNERS/ENVIRONMENTAL SCIENTISTS
 85 CORLISS STREET
 P.O. BOX 6145
 PROVIDENCE, R.I. 02940
 TEL. 401-273-6000

JOB NO. 7184.00
 DWG. NO. 7184-00-Detail
 SCALE: AS SHOWN
 SHEET

DRAWN BY K.Y.Y.
 CHECK BY S.S.H.
 APPROVED S.S.H.
 DATE: DECEMBER 18, 2018

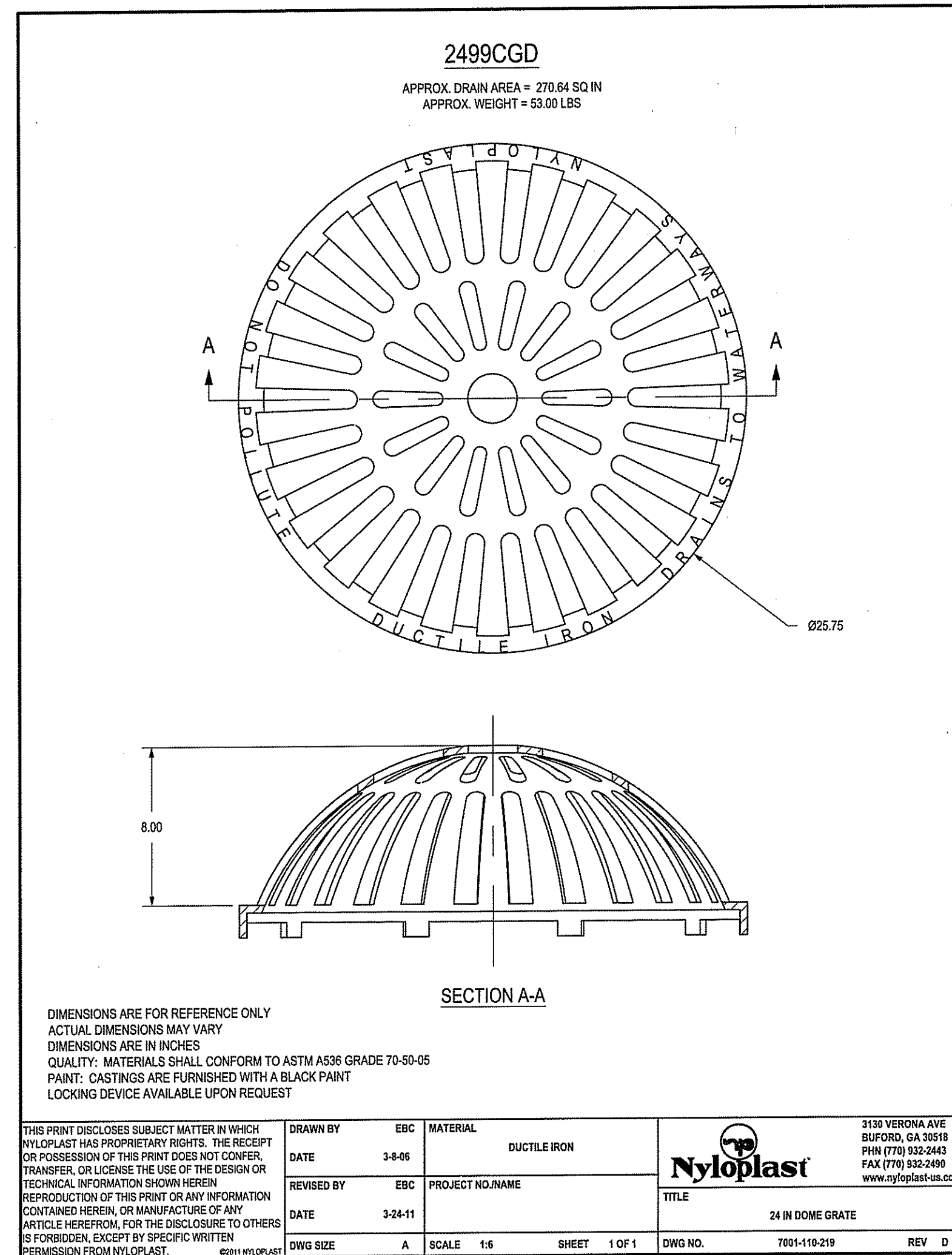
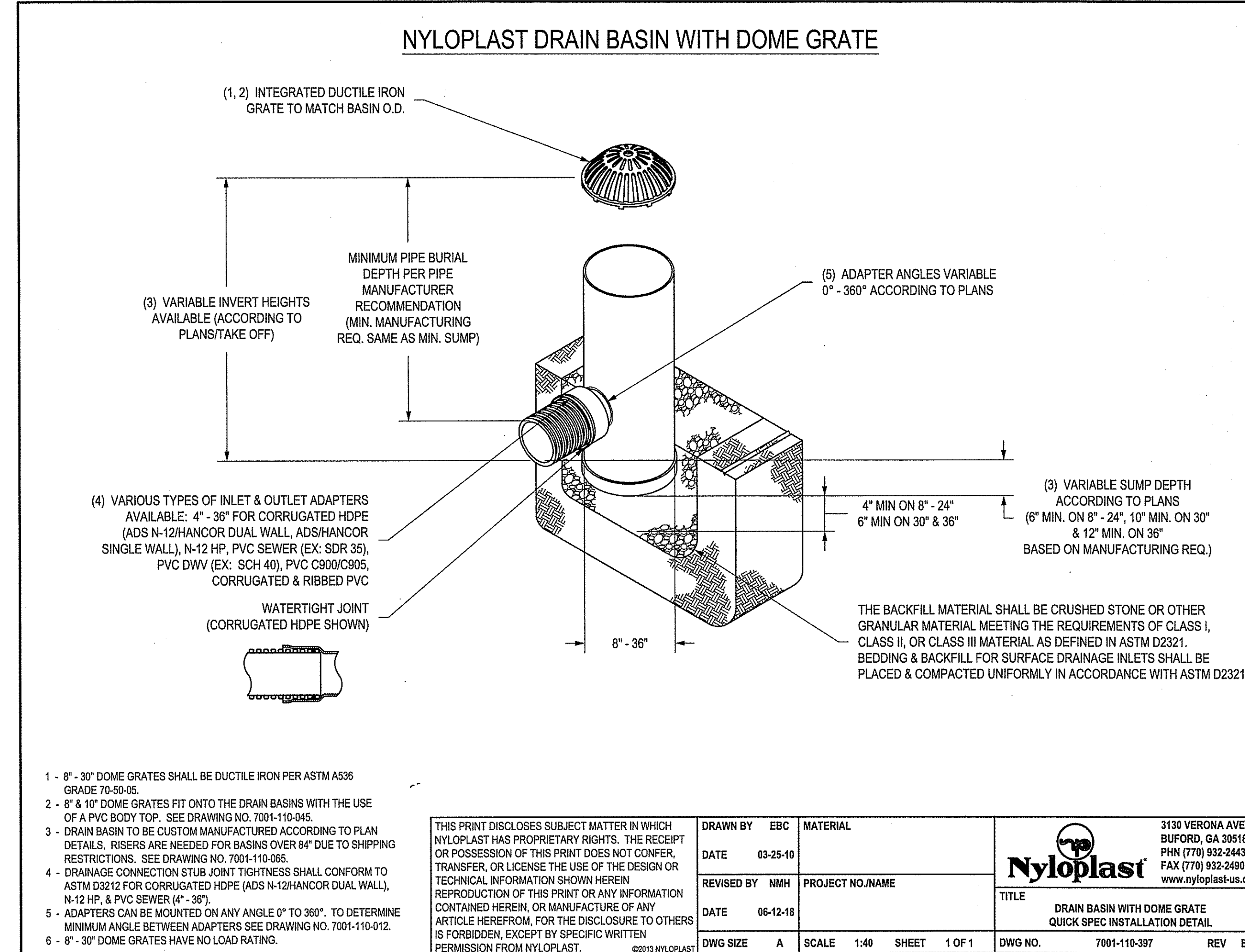
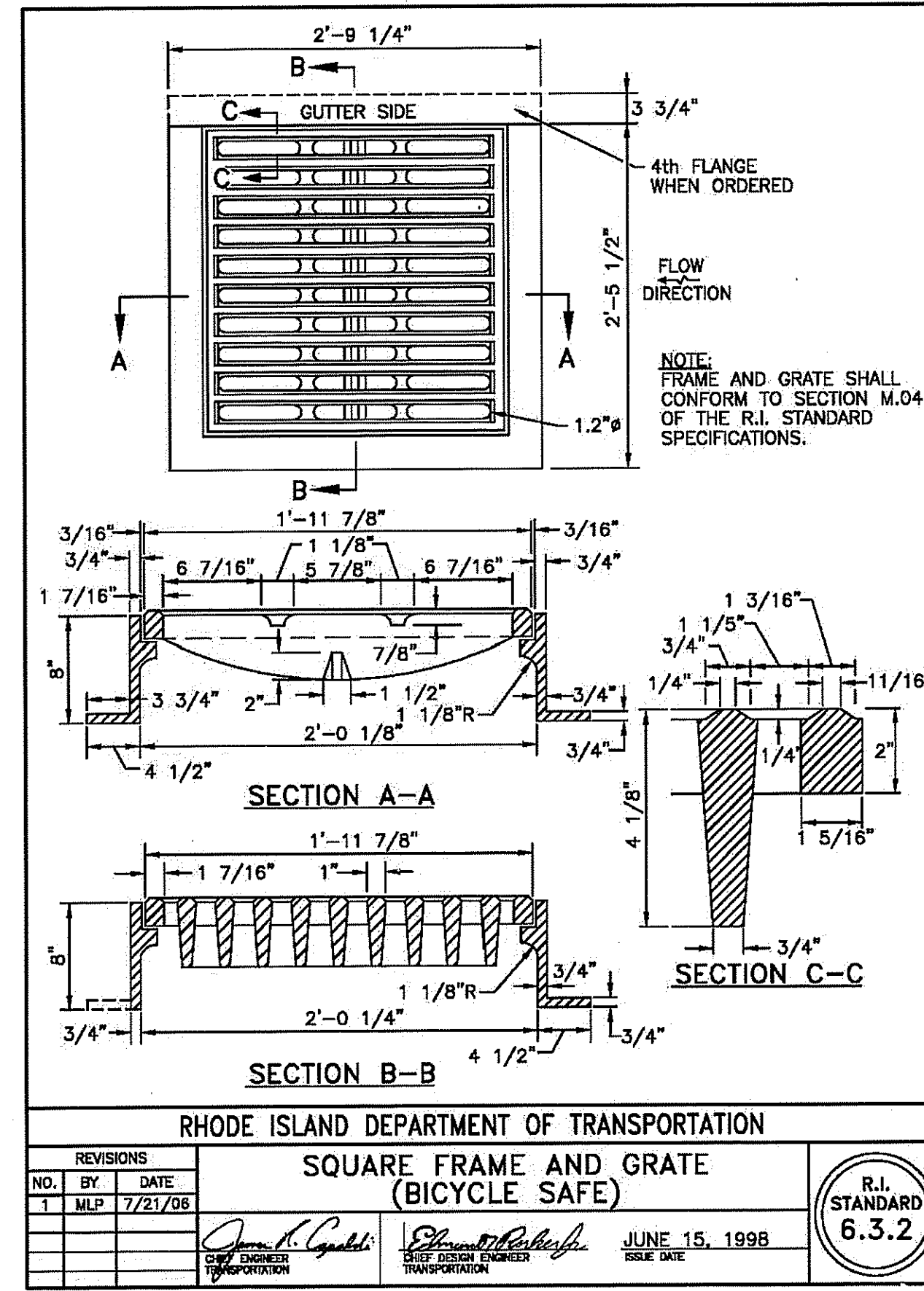
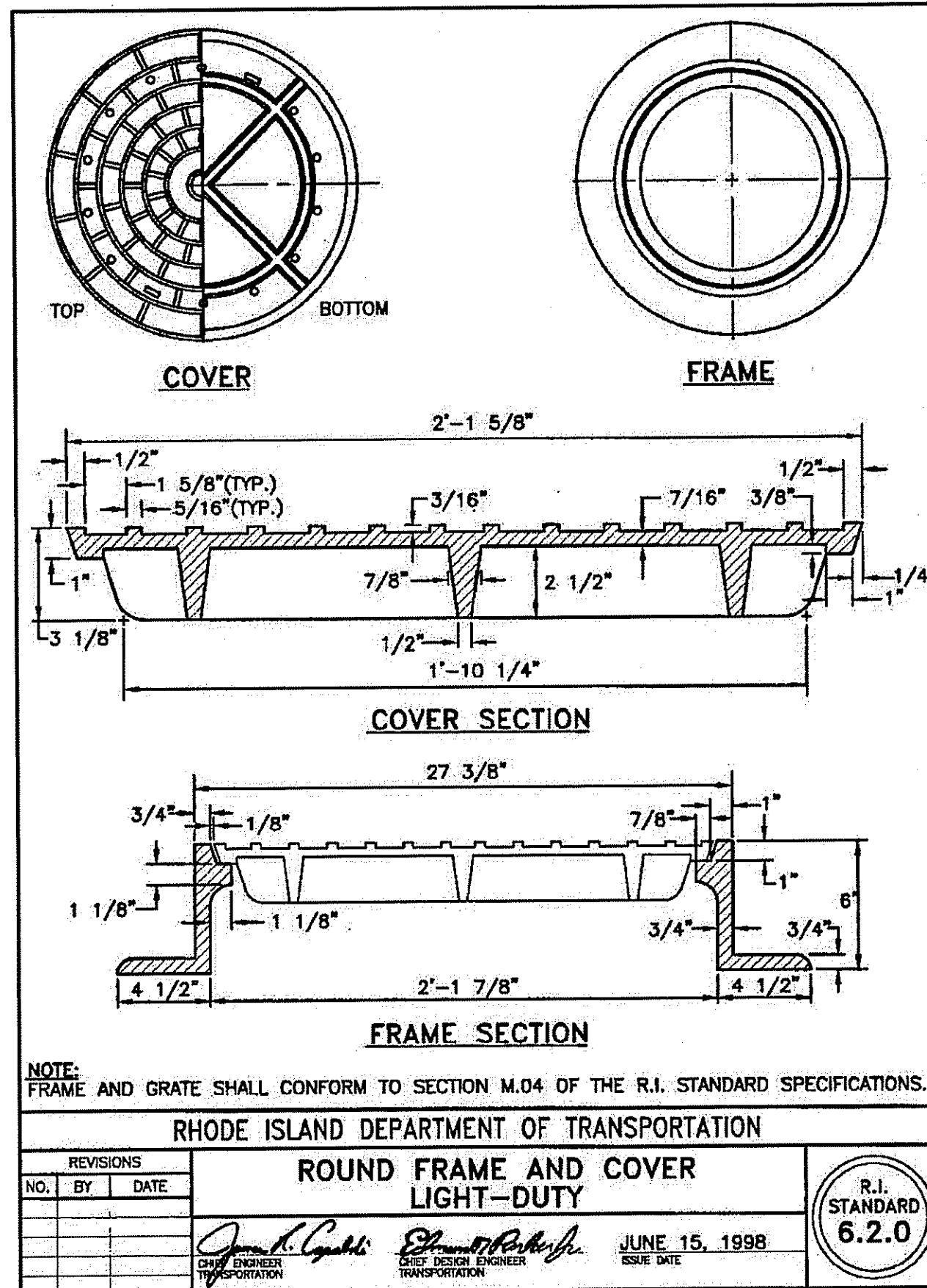
C-7
 OF 9 SHEETS

OWNER/APPLICANT:
 A.P. 19, LOT 89
 TOWN OF NORTH SMITHFIELD
 C/O ELEMENTARY SCHOOL
 P.O. BOX 248
 SLATERSVILLE, RI 02876

Environmental Management
 DEC 18 2018
 Office of Water Resources

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 REVIEWED SITE PLAN APPLICATION NO.: 18-0353
 DATED JAN 14 2019
 SEE LETTER OF SAME DATE.

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 These drawings are the property of the engineer/surveyor and have been prepared at this site and are not to be used for any other purpose, without the consent of this owner or one of its directors.



- 8" - 30" DOME GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- 8" & 10" DOME GRATES FIT ONTO THE DRAIN BASINS WITH THE USE OF A PVC BODY TOP. SEE DRAWING NO. 7001-110-045.
- DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065.
- DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12HANCOR DUAL WALL), N-12 HP, & PVC SEWER (4" - 36").
- ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.
- 8" - 30" DOME GRATES HAVE NO LOAD RATING.

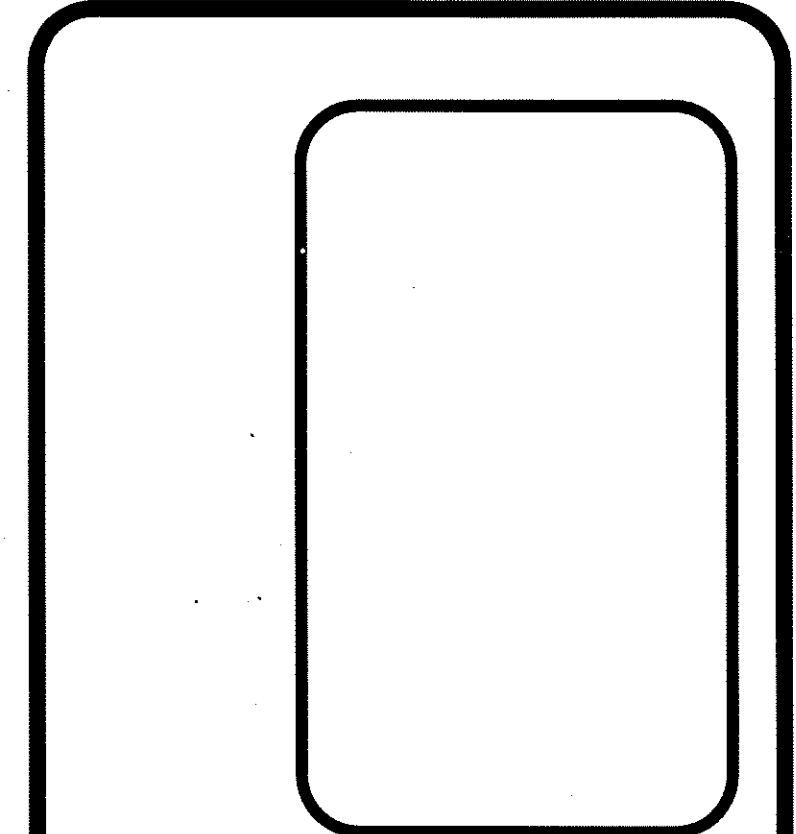
THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONFER, TRANSFER, OR LICENSE THE USE OF THE DESIGN OR TECHNICAL INFORMATION SHOWN HEREIN. REPRODUCTION OF THIS PRINT OR ANY INFORMATION CONTAINED HEREIN, OR MANUFACTURE OF ANY ARTICLE HEREFROM, FOR THE DISCLOSURE TO OTHERS IS FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN PERMISSION FROM NYLOPLAST.		DRAWN BY: EBC DATE: 03-25-10 REVISOR BY: NMH DATE: 06-12-18	MATERIAL: NYLOPLAST PROJECT NO./NAME: DRAIN BASIN WITH DOME GRATE QUICK SPEC INSTALLATION DETAIL DWG NO.: 7001-110-397 REV: E
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Environmental Management
 DEC 18 2018
 Office of Water Resources
 DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 REVIEWED SITE PLAN APPLICATION NO.: 18-0333
 DATED: JAN 14 2019
 SEE LETTER OF SAME DATE.

JAMES A. HART

CONSTRUCTION DETAIL-2
 FOR
 A.P. 19, LOT 89
 SITUATED ON
 2214 PROVIDENCE PIKE
 NORTH SMITHFIELD, RHODE ISLAND
 PREPARED FOR
 TOWN OF NORTH SMITHFIELD
 C/O ELEMENTARY SCHOOL

NO.	REVISION	BY	DATE



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 TEL: 401-273-6000

JOB NO. 7184.00
 DWG. NO. 7184-00-Detail
 SCALE: AS SHOWN
 DRAWN BY: K.Y.Y.
 CHECK BY: S.S.H.
 APPROVED: S.S.H.
 DATE: DECEMBER 18, 2018

SHEET
C-8
 OF 9 SHEETS

OWNER/APPLICANT:
 A.P. 19, LOT 89
 TOWN OF NORTH SMITHFIELD
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