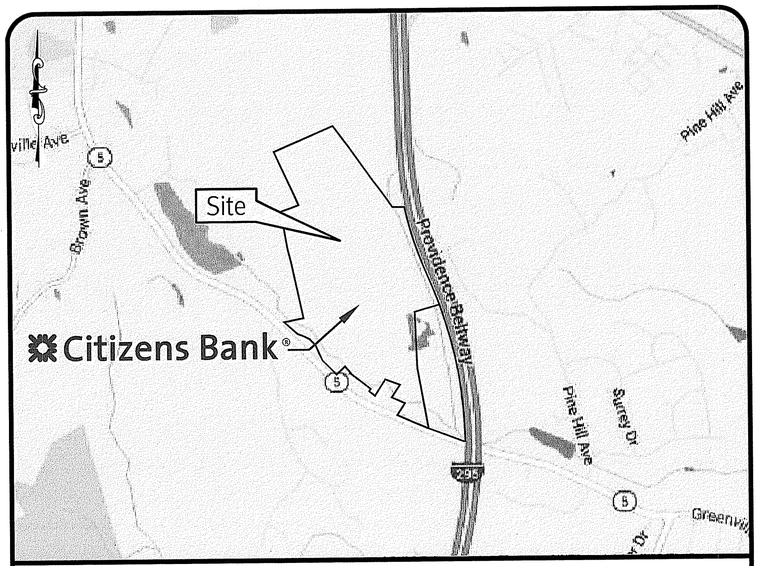
RIDEM Formal Wetlands Submission

Citizens Bank®

Corporate Campus
Greenville Avenue
Johnston, RI 02919

Assessor's Plat 50 Lot 71 and Plat 51/1 Lot 17



Location Map Scale: 1"=1000'

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(By CRJA Landscape Architects)

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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED OCT 18 2016 FILE # 16-0159
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Owner Update Note:
As of 10/6/2016 the owner of AP 51/1 Lot 17 has changed from DAC Properties, Inc to Citizens Bank, National Association.

SESC / O&M
The Soil Erosion and Sediment Control Plan (SESC) and Operations and Maintenance Plan (O&M) are required documents with this plan set and must be maintained by the contractor and owner onsite.

RIDOT
The Proposed Improvements Will Not Increase the Rate of Stormwater Runoff Onto the State Highway. All Work Within the State Right of Way Must Conform to the RI Standard Specifications, Details, and Addendums.

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Environmental Management
OCT 18 2016
Office of Water Resources

This regulatory submission set shall not be used for construction purposes unless stamped "Issued for Construction" and signed by a DiPrete Engineering representative.

The contractor is responsible for all of the means, methods, safety precautions and requirements, and OSHA conformance in the implementation of this plan and design.

No.	Date	Description	By:
3	10-18-2016	RIDEM Formal Wetland Submission Update	MJD/DRK
2	7-29-2016	RIDEM Response to Comments	MJD/DRK
1	6-30-2016	RIDEM Formal Wetland Submission	MJD/DRK
0	6-13-2016	RIDEM Formal Wetland Submission	MJD/DRK

Drawn By:MJD/DRK Design By:BCG

Cover Sheet

Citizens Bank Campus

AP 50 Lot 71 and AP 51/1 Lot 17 - Greenville Avenue
Johnston, Rhode Island

Prepared For:
Citizens Bank®
One Citizens Plaza
Providence, Rhode Island 02903

Applicant AP50 Lot 71:
Greater RI Baptist Temple
671 Greenville Avenue
Johnston, RI 02919

Applicant AP51/1 Lot 17:
Citizens Bank, National Association
One Citizens Plaza
Providence, RI 02903

DE Job No: 2367-001

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SHEET 1 OF 38

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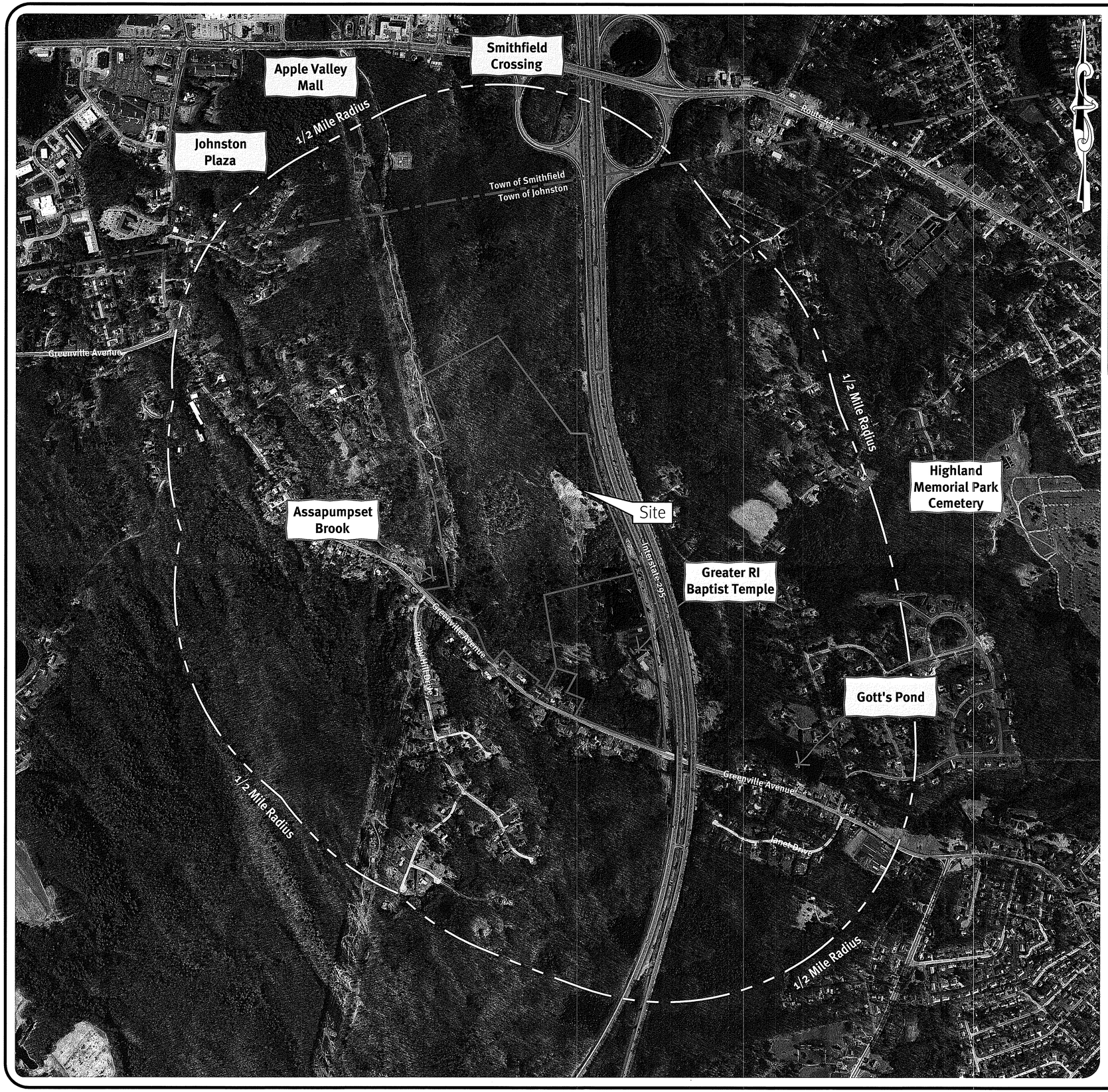

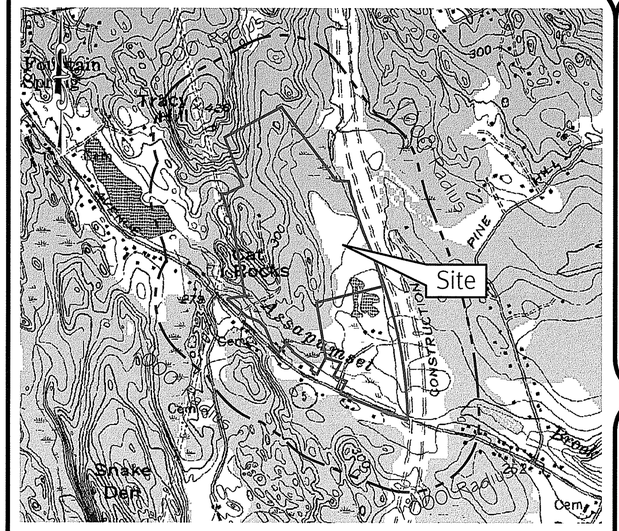

USGS Map Scale: 1"=1000'

Photo obtained from the RI-GIS.

Scale: 1"=500'

0 250' 500' 1000'

Legend:

PROPERTY LINE

1000' RADIUS LINE

HALF MILE RADIUS LINE

APPROXIMATE TOWN LINE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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AUG 1 2016
Office of Water Resources

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No.	Date	Description	By
1	7-13-2016	RIDEM Formal Wetland Rel'K Submission	AD/DRM
2	6-13-2016	RIDEM Formal Wetland Submission	AD/DRM

Drawn By:AD/DRM Design By:BCG

Half Mile Radius

Citizens Bank Campus

AP-50 Lot 71 and AP-51 Lot 17 - Greenville Avenue
Johnston, Rhode Island

Prepared for:
Citizens Bank®
One Citizens Plaza
Providence, Rhode Island 02903

Applicant AP51-1 Lot 17:
Greater RI Baptist Temple
1000 Greenville Avenue
Johnston, RI 02919

Applicant AP50-1 Lot 71:
DAC Properties, Inc.
One Citizens Plaza
Providence, RI 02903

SHEET 2 OF 38

DE Job No: 2367-001 Copyright 2016 by DiPrete Engineering Associates, Inc.

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General Notes:

1. THE FOLLOWING DOCUMENTS ARE CONSIDERED PART OF THE PROJECT PLANS AND THE CONTRACTOR/ OWNER MUST MAINTAIN THESE DOCUMENTS AS PART OF A FULL PLAN SET:
   - SOIL EROSION AND SEDIMENT CONTROL PLAN (SESC). THE SESC CONTAINS THE FOLLOWING:
     - EROSION CONTROL MEASURES
     - SHORT TERM MAINTENANCE
     - ESTABLISHMENT OF VEGETATIVE COVER
     - CONSTRUCTION POLLUTION PREVENTION
     - SEQUENCE OF CONSTRUCTION
   - OPERATIONS AND MAINTENANCE PLAN (O&M). THE O&M CONTAINS THE FOLLOWING:
     - LONG TERM MAINTENANCE
     - LONG TERM POLLUTION PREVENTION
2. THIS PLAN SET REFERENCES RIDOT STANDARD DETAILS (DESIGNATED AS RIDOT STD X.X.X.). RIDOT STANDARD DETAILS ARE AVAILABLE FROM RIDOT AND ONLINE AT: HTTP://WWW.DOT.RI.GOV/BUSINESS/CONTRACTORSANDCONSULTANTS.PHP.
3. THE SITE IS TO BE SERVICED BY PUBLIC WATER, PUBLIC SEWER.
4. THE DRAINAGE SYSTEM IS DESIGNED TO MEET THE RHODE ISLAND STORMWATER DESIGN AND INSTALLATION MANUAL (RISDISM), 2015 EDITION.
5. THE SITE IS PROPOSED TO BE BUILT IN MULTIPLE PHASES. THE MAIN CAMPUS, BUILDINGS, ROADWAYS, UTILITIES, ETC WILL BE BUILT AS PHASE 1. PHASE 2 WILL CONSIST OF A FUTURE BUILDING ADDITION TO THE OFFICE BUILDING. THE SITE WILL BE CONSTRUCTED IN MULTIPLE CONSTRUCTION PHASES, INCLUDING BUT NOT LIMITED TO, MASS GRADING OF THE SITE, FOUNDATION CONSTRUCTION, ROADWAY AND CROSSING CONSTRUCTION, UTILITY CONSTRUCTION AND BUILDING CONSTRUCTION.
6. THE SITE IS NOT CONSIDERED A LAND USE WITH HIGHER POTENTIAL POLLUTANT LOADS (LUHPPL) OR A REDEVELOPMENT SITE PER THE RISDISM.
7. THE SITE IS NOT WITHIN A GROUNDWATER PROTECTION AREA (RIDEM), NATURAL HERITAGE AREAS (RIDEM), OR A GROUNDWATER PROTECTION OVERLAY DISTRICT (TOWN).

Layout and Materials:

1. DIMENSIONS ARE FROM THE FACE OF CURB, FACE OF BUILDING, FACE OF WALL, AND CENTER LINE OF PAVEMENT MARKINGS, UNLESS OTHERWISE NOTED.
2. PARKING LOT CURB RADII ARE 2 FEET UNLESS OTHERWISE NOTED.
3. CURBING SHALL BE PRECAST CONCRETE, MONOLITHIC CONCRETE, BITUMINOUS BERM OR GRANITE.
4. SIDEWALKS SHALL BE CONCRETE AND 5' WIDE.
5. SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SCALED TO THEIR ACTUAL DIMENSIONS OR LOCATIONS ON THE DRAWINGS. THE CONTRACTOR SHALL REFER TO THE DETAIL SHEET DIMENSIONS, MANUFACTURERS' LITERATURE, SHOP DRAWINGS AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.
6. CONTRACTOR SHALL NOT RELY SOLELY ON ELECTRONIC VERSIONS OF PLANS, SPECIFICATIONS, AND DATA FILES THAT ARE OBTAINED FROM THE DESIGNERS, BUT SHALL VERIFY LOCATION OF PROJECT FEATURES IN ACCORDANCE WITH THE PAPER COPIES OF THE PLANS AND SPECIFICATIONS THAT ARE SUPPLIED AS PART OF THE CONTRACT DOCUMENTS.

Erosion Control Notes:

1. THE SITE HAS RECEIVED RIPDES PERMIT RIR101389. ALL WORK SHALL BE IN COMPLIANCE WITH THE APPROVED RIPDES SESC PLAN. THE CURRENT APPROVED SESC PLAN SHALL BE AMENDED TO INCLUDE THE EROSION CONTROL MEASURES ASSOCIATED WITH THIS PLAN SET. SEE SHEET 7.
2. THE SITE CONTRACTOR IS RESPONSIBLE FOR ALL SOIL EROSION (STRAW WATTLE, RIDOT STD 9.2.0 OR APPROVED EQUAL) AND SEDIMENT CONTROL ON SITE. THE SITE CONTRACTOR IS TO NOTIFY THE CIVIL ENGINEER, TOWN OF JOHNSTON, AND RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AT LEAST 72 HOURS PRIOR TO THE START OF CONSTRUCTION.
3. STOCKPILE AND CONCRETE WASHOUT LOCATIONS TO BE DETERMINED BY CIVIL ENGINEER, AND SITE CONTRACTOR PRIOR TO CONSTRUCTION. NO STOCKPILING OF MATERIAL TO BE LOCATED IN RIGHT OF WAY AND NO OPEN TRENCHES ARE TO BE LEFT OVERNIGHT. ALL EXCESS SOIL, TREES, ROCKS, BOULDERS, AND OTHER REFUSE, SHALL BE DISCARDED OFF SITE AS DIRECTED BY THE OWNER. IF CONCRETE TRUCKS ARE WASHED OUT ON SITE, ALL WASHOUT MUST BE COMPLETED IN THE DESIGNATED CONCRETE WASHOUT AREA.
4. SITE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL. DUST CONTROL TREATMENTS SHALL BE APPLIED AS NECESSARY TO CONTROL AND REDUCE THE AMOUNT OF DUST THAT MAY CAUSE OFF SITE DAMAGE, BE A HEALTH HAZARD TO HUMANS, WILDLIFE, AND PLANT LIFE, OR POSE A HAZARD TO TRAFFIC SAFETY. DUST CONTROL TREATMENTS SHALL BE CONSISTENT WITH RIDEM BEST MANAGEMENT PRACTICES.
5. SITE CONTRACTOR TO MAINTAIN ALL ACCESS TO REMAINDER OF DEVELOPMENT FOR OTHER CONTRACTORS. SITE CONTRACTOR RESPONSIBLE FOR PROTECTING ANY IMPROVEMENTS WITHIN THE REST OF THE DEVELOPMENT THAT MAY BE DAMAGED BY THEIR CONSTRUCTION ACTIVITIES. SITE CONTRACTOR TO REPAIR ANY DAMAGE TO REMAINDER OF DEVELOPMENT AT THEIR EXPENSE.
6. SITE CONTRACTOR TO MAINTAIN SESC PLAN DOCUMENTATION ON THEIR RESPECTIVE PORTION OF THE SITE THROUGHOUT THE DURATION OF THE PROJECT.
7. ALL INLETS THAT WILL RECEIVE CONSTRUCTION RUNOFF, TO USE DANDY POP, DANDY SACK, OR APPROVED EQUAL INLET PROTECTION. ALL INLET PROTECTION TO BE MAINTAINED THROUGHOUT CONSTRUCTION UNTIL FINAL SURFACE PAVEMENT IS PLACED AND ALL AREAS TRIBUTARY TO THE CATCH BASINS HAVE BEEN FULLY STABILIZED.
8. SITE CONTRACTOR SHALL STAKEOUT AND PROTECT OUT ANY PROPOSED INFILTRATION AREAS PRIOR TO CONSTRUCTION. CONSTRUCTION TRAFFIC IS NOT ALLOWED WITHIN INFILTRATION AREAS. THIS INCLUDES SAND FILTER A, WQ INFILTRATION BASIN B AND POND COMPLEX C. AREAS SHALL BE PROTECTED FROM RUNOFF DURING CONSTRUCTION AND CANNOT BE USED AS TEMPORARY SEDIMENTATION AREAS DURING CONSTRUCTION. SILT FENCE SHALL BE USED TO PROTECT INFILTRATION AREAS FROM RUNOFF. CONSTRUCTION FENCING CAN BE USED TO PROTECT FROM CONSTRUCTION TRAFFIC.

Blasting Notes:

1. NOTICES, INSPECTIONS AND BLASTING SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL REGULATIONS.
2. BLASTING PRODUCTS UTILIZED ON SITE SHALL BE FREE OF PERCHLORATE.
3. PRIOR TO THE START OF CONSTRUCTION THE BLASTING PRODUCTS MANUFACTURER'S SPECIFICATIONS AND MSDS SHEETS ARE TO BE SENT TO THE TOWN ALONG WITH A LETTER STATING THE PRODUCTS ARE FREE OF PERCHLORATE.
4. A PRE-BLAST SURVEY WILL BE OFFERED TO OWNERS OF APPROVED ADJACENT PROPERTIES PRIOR TO BLASTING ACTIVITIES. LAND OWNERS SHALL BE NOTIFIED VIA CERTIFIED MAIL AND PER RI STATE LAW: CHAPTER 23-28.28-37. IT IS THE CONTRACTORS OBLIGATION TO NOTIFY ALL LAND OWNERS PER STATE LAW.
5. ROADWAYS, UTILITIES, AND BUILDINGS SHALL BE OVERBLASTED ACCORDING TO ARCHITECT, GEOTECH, AND CIVIL ENGINEER REQUIREMENTS. CONTRACTOR SHALL SUBMIT BLASTING PLAN FOR APPROVAL BY THE RESPECTIVE DESIGN PROFESSIONAL PRIOR TO BLASTING.
6. CONTRACTOR TO COORDINATE WITH TENNESSEE GAS AND NATIONAL GRID FOR A PRE-BLAST, DURING BLASTING, AND SHALL MONITOR DETERMINED AREAS BY UTILITY COMPANIES DURING BLASTING.
7. CONTRACTOR SHALL TAKE PREVENTIVE ACTIONS WHEN BLASTING NEAR, ABOVE AND BELOW EXISTING UTILITIES AND STRUCTURES.

Grading and Utility Notes:

1. CONSTRUCTION TO COMMENCE SUMMER OF 2016 OR UPON RECEIPT OF ALL NECESSARY APPROVALS.
2. CONTRACTOR TO OBTAIN ALL FEDERAL, STATE, AND MUNICIPAL APPROVALS PRIOR TO THE START OF CONSTRUCTION.
3. SEQUENCE OF CONSTRUCTION SHOWN IN SESC PLAN MAY BE MODIFIED AS FIELD CONDITIONS WARRANT WITH PRIOR APPROVAL FROM THE OWNER OR OWNER'S REPRESENTATIVE.
4. ALL WATER IMPROVEMENTS SHALL COMPLY WITH THE PROVIDENCE WATER SUPPLY BOARD RULES AND REGULATIONS. ALL SEWER MAIN IMPROVEMENTS SHALL COMPLY WITH THE NARRAGANSETT BAY COMMISSION RULES AND REGULATIONS. LOCATIONS OF SEWER AND WATER SERVICES TO BUILDINGS TO BE COORDINATED WITH THE ARCHITECT AND CIVIL ENGINEER PRIOR TO CONSTRUCTION.
5. PROPOSED GAS, ELECTRIC, CABLE AND DATA UTILITIES ARE SHOWN SCHEMATICALLY AND ARE PROPOSED TO BE UNDERGROUND. OWNER & CONTRACTOR TO COORDINATE FINAL DESIGN WITH APPROPRIATE UTILITY COMPANIES. ALL WORK SHALL BE IN ACCORDANCE WITH EACH UTILITY COMPANY'S STANDARDS AND DETAILS AS WELL AS LOCAL AND FEDERAL REGULATIONS. THIS INCLUDES BUT IS NOT LIMITED TO, POLES, TRANSFORMERS, PULL BOXES, CONCRETE PADS, CONCRETE ENCASEMENTS AND CONDUITS.
6. IN ORDER TO PREVENT GROUNDWATER FROM BEING CONVEYED ALONG UTILITY TRENCHES, AN IMPERMEABLE BARRIER SHALL BE INCORPORATED INTO ALL UTILITY TRENCHES WHERE THE TRENCH INTERCEPTS GROUNDWATER. SPACING OF THE IMPERMEABLE BARRIERS IS TO BE AT THE DIRECTION OF THE CIVIL ENGINEER AND SHALL BE BASED ON THE SITE CONDITIONS.
7. ALL COMPONENTS OF THE WATER, SEWER AND DRAINAGE SYSTEMS MUST BE ASBUILT PRIOR TO COVERING. CIVIL ENGINEER TO BE NOTIFIED PRIOR TO COVERING TO SURVEY ASBUILT LOCATIONS. ENGINEER WILL NOT ACCEPT FIELD MEASUREMENTS FROM THE SITE CONTRACTOR.
8. ALL RETAINING WALLS AND STEEP SLOPES ARE SHOWN SCHEMATICALLY ONLY AND DIPRETE ENGINEERING IS NOT PROVIDING THE DESIGN OF THESE ITEMS. THE ACTUAL WALLS AND SLOPES ARE TO BE BUILT UNDER THE DIRECTION OF A GEOTECHNICAL ENGINEER AND CERTIFIED TO THE OWNER PRIOR TO THE COMPLETION OF THE PROJECT. RETAINING WALL SHOP DRAWINGS TO BE SUBMITTED TO DESIGN ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. SHOW DRAWINGS SHALL BE STAMPED BY A RHODE ISLAND PROFESSIONAL ENGINEER.
9. ALL FOOTINGS FOR PROPOSED CULVERTS ARE SHOWN SCHEMATICALLY ONLY. FINAL DESIGN TO BE STAMPED BY A RHODE ISLAND PROFESSIONAL ENGINEER AND SUBMITTED TO DESIGN ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
10. ALL CUT AND FILL AREAS ARE TO BE DONE UNDER THE DIRECTION OF A GEOTECHNICAL ENGINEER WITH TESTING AND CERTIFICATION TO BE PROVIDED TO THE APPLICANT AT THE COMPLETION OF THE PROJECT. DIPRETE ENGINEERING IS NOT PROVIDING THE FILL SPECIFICATION, GEOTECHNICAL ENGINEERING, STRUCTURAL ENGINEERING SERVICES, OR SUPERVISION AS PART OF THESE DRAWINGS.
11. NO STOCKPILING OF MATERIAL TO BE LOCATED IN THE RIGHT OF WAY AND NO UNPROTECTED OPEN TRENCHES ARE TO BE LEFT OVERNIGHT.
12. ALL LOAM IN DISTURBED AREAS TO BE STOCKPILED FOR FUTURE USE.
13. ALL EXCESS MATERIALS (I.E. SOIL, TREES, ROCKS, BOULDERS, AND REFUSE) SHALL BE STOCKPILED ON SITE WITH OWNERS PERMISSION. STUMPS SHALL BE GROUND ON SITE OR REMOVED. NO STUMP DUMPS ARE ALLOWED ON SITE.
14. WHERE LEDGE IS ENCOUNTERED IN A PROPOSED CUT CONDITION, PROPOSED SLOPES CAN BE REPLACED WITH ROCK CUT SLOPES WITH THE DIRECTION AND APPROVAL FROM THE GEOTECHNICAL ENGINEER AND/OR CIVIL ENGINEER AS WARRANTED BY SITE CONDITIONS.
15. CLEARING AND GRUBBING IS NOT TO EXTEND BEYOND THE LIMIT OF WORK.
16. ALL STORMWATER PIPE WITHIN THE STATE'S RIGHT OF WAY TO BE RCP. OTHER STORMWATER PIPE TO BE HDPE OR AS OTHERWISE SPECIFIED. ALL WATER MAINS SHALL BE CEMENT LINED DUCTILE IRON PIPE (CLDIP). ALL SEWER PIPE SHALL BE SDR-35 PVC SEWER PIPE UNLESS OTHERWISE NOTED.
17. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR IS TO INSPECT/VERIFY ALL EXISTING UTILITY LOCATIONS, INVERTS, PIPE SIZES AND PIPES AND STRUCTURES CONDITIONS AT POINTS WHERE THE PROPOSED UTILITIES WILL BE CONNECTING INTO THE EXISTING UTILITIES OR EXISTING UTILITY STUBS AS INSTALLED BY THE ROADWAY CONTRACTOR. AT THIS TIME, AND PRIOR TO THE START OF ANY EXISTING UTILITY REMOVAL OR PROPOSED UTILITY INSTALLATION, THE CONTRACTOR IS TO PROVIDE THE ENGINEER THE INFORMATION IN WRITING. NO UTILITY WORK IS TO PROCEED PRIOR TO THE APPROVAL OF THIS INFORMATION BY THE CIVIL ENGINEER. IF THIS INFORMATION IS NOT APPROVED BY THE CIVIL ENGINEER, ANY ADDITIONAL COSTS CAUSED BY THE ABOVE DISCREPANCIES ARE TO BE THE RESPONSIBILITY OF THE SITE CONTRACTOR.
18. PRIOR TO START OF CONSTRUCTION, THE SITE CONTRACTOR SHALL VERIFY EXISTING PAVEMENT ELEVATIONS AT INTERFACE WITH PROPOSED PAVEMENTS TO ASSURE PROPER TRANSITIONS BETWEEN EXISTING AND PROPOSED FACILITIES. IF THE ELEVATION DIFFERS MORE THAN 0.25' THE CONTRACTOR IS TO NOTIFY THE CIVIL ENGINEER IN WRITING AND NO WORK ON THESE INTERFACES IS TO CONTINUE UNTIL APPROVAL IS PROVIDED BY THE CIVIL ENGINEER. IF THIS INFORMATION IS NOT APPROVED BY THE CIVIL ENGINEER, ANY ADDITIONAL COSTS CAUSED BY THE ABOVE DISCREPANCIES AND THEIR RESULTS ARE TO BE THE RESPONSIBILITY OF THE SITE CONTRACTOR.
19. ALL FLARED ENDS SHALL BE INSTALLED AT GRADE. CONTRACTOR TO VERIFY EXISTING ELEVATION AT OUTFALLS AND ROADWAY LOCATIONS UPON CLEARING AND GRUBBING OF SITE. PRIOR TO CONSTRUCTION AND NOTIFY DESIGN ENGINEER OF ANY DISCREPANCIES WITH DESIGN PLANS. SOME VERTICAL AND HORIZONTAL ADJUSTMENTS MAY BE NECESSARY.
20. DIPRETE ENGINEERING PERFORMED SITE WIDE SOIL EVALUATIONS AND INFILTROMETER TESTING FOR DEPTH OF GROUNDWATER, LEDGE ELEVATIONS AND INFILTRATION RATES IN MARCH 2016. GROUNDWATER AND LEDGE ELEVATIONS ARE VARIABLE SITE WIDE. CONTRACTOR TO VERIFY GROUNDWATER AND LEDGE ELEVATIONS PRIOR TO CONSTRUCTION OF PROPOSED BMPS AND REPORT FINDINGS TO THE CIVIL ENGINEER. LEDGE AND GROUNDWATER TABLE DEPTH SHOWN ON PLANS ARE REPRESENTATIVE OF THOSE SPECIFIC LOCATIONS ONLY.
21. ALL STORM DRAINAGE PIPING LOCATED IN AREAS OF SEASONAL HIGH GROUND WATER SHALL BE WATER TIGHT.
22. SITE LIGHTING SHALL BE DIRECTED AWAY FROM AND SHIELDED FROM ENVIRONMENTALLY SENSITIVE AREAS AND ABUTTING LANDS. EXACT LOCATIONS OF LIGHT POLE TO BE COORDINATED WITH OTHER UTILITIES AND TO BE LOCATED WITHIN THE STREET RIGHT OF WAYS. FINAL LIGHTING AND CONDUIT LOCATIONS BY OTHERS.
23. DRAINAGE STRUCTURES SHALL BE AS FOLLOWS (UNLESS OTHERWISE NOTED ON PLANS):
    - CATCH BASIN'S ALONG CURBING TO BE RIDOT STD. 4.4.0, TYPE F FRAME, 4' DIAMETER WITHIN APRON STONE.
    - CATCH BASIN'S NOT ALONG CURBING TO BE RIDOT STD 4.4.0, 4' DIAMETER
    - SINGLE FRAME CATCHBASIN GRATES TO BE RIDOT STD. 6.3.2
    - DOUBLE FRAME CATCHBASIN GRATES TO BE RIDOT STD. 6.3.2
    - HIGH CAPACITY CATCHBASIN GRATES TO BE RIDOT STD 6.3.4 AND INSTALLED ANYWHERE GRADES AREA 6% AND STEEPER.
    - MANHOLE'S TO BE RIDOT STD. 4.2.0, 4.2.1 OR 4.2.2 AS REQUIRED
    - DRAINAGE MANHOLE COVERS TO BE RIDOT STD 6.2.1

Approvals:

1. WETLAND EDGE VERIFICATIONS:
   - 1.1. NO. 16-0065, DATED 4/7/2016. WETLAND FLAGS D1 THROUGH D7, E1 THROUGH E9, AND F1 THROUGH F16.
   - 1.2. NO. 16-0069, DATED 4/7/2016. WETLAND FLAGS A1 THROUGH A23, B1 THROUGH B30, AND C1 THROUGH C17
   - 1.3. NO. 16-0085, DATED 5/16/2016. WETLAND FLAGS B31 THROUGH B72, C1-1 THROUGH C1-17, D1-3 THROUGH D1-14, E16 THROUGH E50, F1-1 THROUGH F1-11, F16 THROUGH F29, G1 THROUGH G80, H1 THROUGH H13, H24 THROUGH H27, I1 THROUGH I20, I38 THROUGH I60, J1 THROUGH J42, K2 THROUGH K20, L4 THROUGH L28, AND Z1 THROUGH Z9.
2. RIPDES PERMIT RIR101389
3. REMEDIAL ACTION WORK PLAN (RAWP) APPROVAL, FILE NO 16-060 & RIPDES RIR101394
4. TOWN OF JOHNSTON MASTER PLAN APPROVAL, DATED 5/5/2016
5. ZONING ORDINANCE 2016-6, DATED 5/9/2016
6. ZONING ORDINANCE 2016-7, DATED 5/9/2016

Wetland Crossing Notes:

1. CONSTRUCTION OF THE CROSSINGS WITHIN THE WETLAND AND WETLAND BUFFERS MUST OCCUR BETWEEN JULY 1 AND OCTOBER 31. NO CONSTRUCTION WITHIN THE BIOLOGICAL WETLANDS IS ALLOWED OUTSIDE OF THESE DATES. CONSTRUCTION OF THE EASTERN CROSSING CAN BE DONE ANYTIME PROVIDED LOW STREAM FLOW AND NO WORK IS DONE WITHIN THE STREAM CHANNEL OUTSIDE OF JULY 1 AND OCTOBER 31. THE SHOULD BE INSTALLED WITHOUT DISTURBING THE STREAM CHANNEL AND CAN BE CONSTRUCTED ANYTIME.
2. SEQUENCE OF CONSTRUCTION WITHIN THE WETLAND AND WETLAND BUFFER IS AS FOLLOWS, CONTRACTOR MAY MODIFY AS NECESSARY WITH APPROVAL FROM DESIGN ENGINEER AND RIDEM:
   - 2.1. SURVEY AND STAKE CENTERLINE OF THE PROPOSED ROAD, THE DRAINAGE STRUCTURES, CULVERTS AND RETAINING WALLS. LIMIT OF WORK SHALL BE STAKED UNDER THE DIRECTION OF A PROFESSIONAL LAND SURVEYOR IN THE AREAS OF THE WETLAND CROSSINGS.
   - 2.2. PLACE SEDIMENTATION BARRIERS (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. INSTALL DEWATERING PUMPS AND DEWATERING BASIN IF NECESSARY
   - 2.3. BEGIN WETLAND CROSSING WORK:
     - 2.3.1. CLEAR AND GRUB TREES AND BRUSH FROM THE EDGE OF PHASE 1 DEVELOPMENT TO ARCH CULVERT TOPSOIL TO BE STRIPPED AND STOCKPILED IN APPROVED AREAS.
     - 2.3.2. INSTALL TEMPORARY DIVERSION PIPE TO DIVERT EXISTING STREAM. CONTRACTOR TO ENSURE STREAM FLOW THROUGH DIVERSION PIPE BEFORE INSTALLING CONCRETE ARCH CULVERT. THE CONTRACTOR SHALL STOCKPILE SANDBAGS ON SITE SUFFICIENT TO PROVIDE 2' HIGH SANDBAG PILES ALONG BOTH SIDES OF THE STREAM WITHIN LIMITS OF WORK. IN THE EVENT OF A FORECAST FOR A SIGNIFICANT STORM EVENT (1" OR MORE OF RAINFALL WITHIN A 24-HOUR PERIOD), SANDBAG PILES SHALL BE INSTALLED OUTSIDE THE LIMITS OF EXCAVATION ON BOTH STREAM BANKS. THE EASTERN CROSSING SHALL MAINTAIN THE EXISTING STREAM CHANNEL DURING CONSTRUCTION. THE SPAN CAN BE BUILT FROM BOTH SIDES WITHOUT DISTURBING THE STREAM CHANNEL. A TEMPORARY DIVERSION OF THE ENTIRE STREAM IS NOT REQUIRED IN THE EASTERN CROSSING. CONTRACTOR MAY DIVERT FLOW TO ONE SIDE OF THE STREAM AS NECESSARY FOR FOOTING CONSTRUCTION THROUGH THE USE OF SANDBAGS OR OTHER APPROVED MEANS.
     - 2.3.3. INSTALL FOOTINGS AND CONCRETE ARCH CULVERT PER MANUFACTURER AND GEOTECHNICAL REQUIREMENTS AND RECOMMENDATIONS. REMOVE UNSUITABLE MATERIALS UNDER FOOTINGS AS NECESSARY. EXISTING STREAM CHANNELS TO BE MAINTAINED AS MUCH AS POSSIBLE.
     - 2.3.4. INSTALL STORMTECH CHAMBERS, PIPE CULVERTS, AND ARCH CULVERTS AS NOTED ON THE PLANS AND PER MANUFACTURE REQUIREMENTS.
     - 2.3.5. BEGIN CONSTRUCTION OF RETAINING WALLS.
     - 2.3.6. FILL AND COMPACT OVER THE STORMTECH CHAMBERS, PIPE CULVERTS AND ARCH CULVERTS PER GEOTECHNICAL SPECIFICATIONS.
     - 2.3.7. INSTALL SCOUR/RIP RAP PROTECTION AT END POINTS OF STORMTECH CHAMBERS.
     - 2.3.8. REMOVE THE TEMPORARY DIVERSION PIPE AND ADDITIONAL EROSION CONTROL DEVICES ONCE RETAINING WALLS ARE ABOVE THE STREAM CHANNEL.
   - 2.4. CONTINUE CLEARING AND GRUBBING WITHIN THE LIMITS OF THE PROPOSED WETLAND CROSSING. TOPSOIL TO BE STRIPPED AND STOCKPILED IN APPROVED AREAS.
   - 2.5. CONTRACTOR TO CONTINUE AS REQUIRED STORMTECH CHAMBERS INSTALLATION, ROAD CONSTRUCTION (EXCAVATING AND GRADING ETC.), UTILITIES AND DRAINAGE INSTALLATION, SEGMENTAL BLOCK WALL PER GEOTECHNICAL AND MANUFACTURE SPECIFICATIONS.
   - 2.6. BEGIN LANDSCAPING AND SIDEWALK WHILE ROADWAY IS UNDER CONSTRUCTION.
   - 2.7. FINISH ROAD CONSTRUCTION.
   - 2.8. FINISH LANDSCAPING AND PERMANENT STABILIZATION.
   - 2.9. REMOVE ALL TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL MEASURES FOLLOWING VEGETATIVE ESTABLISHMENT OF ALL DISTURBED AREAS.
   - 2.10. CONTRACTOR TO PROVIDE AMENDED SEQUENCE OF CONSTRUCTION PRIOR TO CONSTRUCTION FOR APPROVAL BY DESIGN ENGINEER AND OWNER.

ABBREVIATIONS LEGEND

AP	ASSESSOR'S PLAT
ALSP	ALUMINUM STRUCTURAL PLATE
BW	BOTTOM OF WALL (FINISH GRADE AT BOTTOM OF WALL)
CB	CATCH BASIN
℄	CENTERLINE
CONC	CONCRETE
DCB	DOUBLE CATCH BASIN
DMH	DRAINAGE MANHOLE
ETC	ELECTRIC/TELECOM/CABLE LINE
FES	FLARED END SECTION
HC	HIGH CAPACITY CATCH BASIN GRATE
HDPE	HIGH DENSITY POLYETHYLENE
HW	HEADWALL
ID	INLINE DRAIN (NYLOPLAST OR EQUAL)
INV	INVERT
LF	LINEAR FEET
LOD	LIMIT OF DISTURBANCE
N/F	NOW OR FORMERLY
OHW	OVERHEAD WIRE
PE	POLYETHYLENE
℗	PROPERTY LINE
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
S	SLOPE
SMH	SEWER MANHOLE
SS	SIDE SLOPE
STA	STATION
TRANS	TRANSITION
TW	TOP OF WALL (FINISH GRADE AT TOP OF WALL)
TYP	TYPICAL
UIS	UNDERGROUND INFILTRATION SYSTEM
UP	UTILITY POLE

EXISTING LEGEND

(AS SHOWN ON PROPOSED PLANS)
NOT ALL ITEMS SHOWN WILL APPEAR ON PLANS

BUILDING	GWT GROUND WATER TABLE
RIHB RHODE ISLAND HIGHWAY BOUND	BT BOTTOM TESTHOLE
AP ASSESSOR'S PLAT	(M) MEASURED
N/F NOW OR FORMERLY	(C) CALCULATED
(D) DEED	(CA) CHORD ANGLE
PROPERTY LINE	HC HANDICAPPED
ASSESSORS LINE	△/△ NAIL FOUND/SET
BRUSHLINE	●/● DRILL HOLE FOUND/SET
TREELINE	○/●
GUARDRAIL	■/□ BOUND FOUND/SET
FENCE	SIGN
RETAINING WALL	BOLLARD
STONE WALL	SOIL EVALUATION
2 MINOR CONTOUR LINE	© CB CATCH BASIN
10 MAJOR CONTOUR LINE	© DCB DOUBLE CATCH BASIN
W WATER LINE	© DMH DRAINAGE MANHOLE
S SEWER LINE	FES FLARED END SECTION
SFM SEWER FORCE MAIN	GUY POLE
G GAS LINE	© EMH ELECTRIC MANHOLE
E ELECTRIC LINE	© UP UTILITY/POWER POLE
OHW OVERHEAD WIRES	LIGHTPOST
D DRAINAGE LINE	© SMH SEWER/SEPTIC MANHOLE
HkC CaD SOILS LINES	SEWER VALVE
50' PERIMETER WETLAND	CLEANOUT
100' RIVERBANK WETLAND	HYDRANT
200' RIVERBANK WETLAND	IRRIGATION VALVE
APPROXIMATE 100 YEAR FLOODPLAIN	WATER VALVE
STREAM	WELL
	MONITORING WELL
	UNKNOWN MANHOLE
	GAS VALVE
	B-1 WETLAND LINE & FLAG
	BENCH MARK
	STREAM FLOW DIRECTION

PROPOSED LEGEND

NOT ALL ITEMS SHOWN WILL APPEAR ON PLANS

308 MINOR CONTOUR LINE	W WATER LINE
310 MAJOR CONTOUR LINE	S SEWER LINE
+312 SPOT ELEVATION	WATER LINE INSULATION
BUILDING SETBACKS	SEWER LINE INSULATION
LIMIT OF DISTURBANCE	SFM SEWER FORCE MAIN
LIMIT OF DISTURBANCE – NO EROSION CONTROL	G GAS LINE
STRAW WATTLE, SILT FENCE (RIDOT STD 9.2.0) OR APPROVED EQUAL	ETC ELECTRIC/TELECOM/CABLE LINE
CLASS C SILT FENCE (WIRE FENCE/MESH SILT FENCE)	T TELECOM LINE
CONSTRUCTION ENTRANCE	OHW OVERHEAD WIRE
EDGE OF PAVEMENT	DRAINAGE LINE
BITUMINOUS BERM (RIDOT STD 7.5.1)	RL ROOF LEADER
CONCRETE CURB (RIDOT STD 7.1.0)	CATCH BASIN (SEE GRADING & UTILITY NOTE 23)
BUILDING FOOTPRINT	DOUBLE CATCH BASIN (SEE GRADING & UTILITY NOTE 23)
BUILDING OVERHANG	MANHOLE (SEE GRADING & UTILITY NOTE 23)
ASPHALT PAVEMENT	FLARED END SECTION
CONCRETE SIDEWALK	HEAD WALL (RIDOT STD 2.1.0 OR APPROVED EQUAL)
TREELINE	SIGN
GUARDRAIL (RIDOT STD 34.2.0, 34.4.0 OR APPROVED EQUAL)	SINGLE LIGHT POLE
RETAINING WALL	DOUBLE LIGHT POLE
RIP RAP	HYDRANT
UNDERGROUND INFILTRATION OUTLINE	WATER SHUT OFF
SAND FILTER	WATER VALVE
POND ACCESS	THRUST BLOCK
2:1 OR 1:1 SLOPES	PAVEMENT STRIPING
	ACCESSIBLE PARKING SPACE SYMBOL
	ACCESSIBLE VAN SPACE SYMBOL
	ARROW STRIPING STRAIGHT/TURN

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED OCT 18 2016 FILE # 16-0159
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Agnes S. Ellsworth

DiPrete Engineering
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Boston • Providence • Newport

BRIAN C. GIROUX
No. 9341
REGISTERED PROFESSIONAL ENGINEER
CIVIL

Environmental Management
AUG 1 2016
Office of Water Resources

This regulatory submission set shall not be used for construction purposes unless stamped 'Issued for Construction' and signed by a DiPrete Engineering representative.

The contractor is responsible for all of the means, methods, safety precautions and requirements and OSHA conformance in the implementation of this plan and design.

No.	Date	Description	Drawn By/JAD/DRN	Design By/JAD
2	7/29/2016	RIDEM Response to Comments	DRN	
1	6/13/2016	RIDEM Formal Wetland Submission	JAD/DRN	
0	6/13/2016	RIDEM Formal Wetland Submission	JAD/DRN	By:

General Notes & Legend

Citizens Bank Campus

AP 50 Lot 71 and AP 51/1 Lot 17 - Greenville Avenue
Johnston, Rhode Island

Prepared For:
Citizens Bank®
One Citizens Plaza
Providence, Rhode Island 02903

Applicant AP50 Lot 71:
Greater RI Baptist Temple
671 Greenville Avenue
Johnston, RI 02919

Applicant AP51/1 Lot 17:
DAC Properties, Inc.
300 Dorrance Street
Providence, RI 02903

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SHEET 3 OF 38

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See Sheet 5

This Plan Should Be Indexed By The Following Streets:

- Greenville Avenue
- Interstate Route 295

Legend

NOT ALL ITEMS SHOWN WILL APPEAR ON THE SURVEY

BUILDING		GWT	GROUND WATER TABLE
		BT	BOTTOM TESTHOLE
		(M)	MEASURED
RIHB	RHODE ISLAND HIGHWAY BOUND	(C)	CALCULATED
AP	ASSESSOR'S PLAT	(CA)	CHORD ANGLE
N/F	NOW OR FORMERLY	HC	HANDICAPPED
(D)	DEED	▲/△	NAIL FOUND/SET
		●/○	DRILL HOLE FOUND/SET
	PROPERTY LINE	⊙/◎	
	ASSESSORS LINE	■/□	BOUND FOUND/SET
	BRUSHLINE		SIGN
	TREELINE		BOLLARD
	GUARDRAIL	SEV	SOIL EVALUATION
	FENCE	CB	CATCH BASIN
	RETAINING WALL	DCB	DOUBLE CATCH BASIN
	STONE WALL	DMH	DRAINAGE MANHOLE
2	MINOR CONTOUR LINE	FES	FLARED END SECTION
10	MAJOR CONTOUR LINE		GUY POLE
W	WATER LINE	EMH	ELECTRIC MANHOLE
S	SEWER LINE	UP	UTILITY/POWER POLE
SFM	SEWER FORCE MAIN		LIGHTPOST
G	GAS LINE	SMH	SEWER/SEPTIC MANHOLE
E	ELECTRIC LINE	SV	SEWER VALVE
OHW	OVERHEAD WIRES	●	CLEANOUT
D	DRAINAGE LINE		HYDRANT
HkC	SOILS LINES	IV	IRRIGATION VALVE
CaD		WV	WATER VALVE
	50' PERIMETER WETLAND		WELL
	100' RIVERBANK WETLAND		MONITORING WELL
	APPROXIMATE 100 YEAR FLOODPLAIN (SEE GENERAL NOTE 4)		UNKNOWN MANHOLE
		GV	GAS VALVE
		B-1	WETLAND FLAG
			BENCH MARK
			STREAM FLOW DIRECTION

Soil Information

(REFERENCE: SOIL SURVEY OF RHODE ISLAND, U.S.D.A. SOIL CONSERVATION SERVICE)

SOIL NAME	DESCRIPTION
AfA	AGAWAM FINE SANDY LOAM, 0 TO 3 PERCENT SLOPES
CoC	CANTON–CHARLTON–ROCK OUTCROP COMPLEX, 3 TO 15 PERCENT SLOPES
CoD	CANTON–CHARLTON–ROCK OUTCROP COMPLEX, 15 TO 35 PERCENT SLOPES
CB	CANTON–URBAN LAND COMPLEX
CeC	CANTON AND CHARLTON FINE SANDY LOAMS, VERY ROCKY, 3 TO 15 PERCENT SLOPES
ChB	CANTON AND CHARLTON VERY STONY FINE SANDY LOAMS, 3 TO 8 PERCENT SLOPES
ChD	CANTON AND CHARLTON VERY STONY FINE SANDY LOAMS, 15 TO 25 PERCENT SLOPES
CkC	CANTON AND CHARLTON EXTREMELY STONY FINE SANDY LOAMS, 3 TO 15 PERCENT SLOPES
Du	DUMPS
HkA	HINCKLEY GRAVELLY SANDY LOAM, 0 TO 3 PERCENT SLOPES
HkC	HINCKLEY GRAVELLY SANDY LOAM, ROLLING
MU	MERRIMAC–URBAN LAND COMPLEX
Pg	PITS, GRAVEL
Rf	RIDGEBURY, WHITMAN, AND LEICESTER EXTREMELY STONY FINE SANDY LOAMS
Sb	SCARBORO MUCKY SANDY LOAM
Ss	SUDBURY SANDY LOAM
SvB	SUTTON EXTREMELY STONY FINE SANDY LOAM, 0 TO 8 PERCENT SLOPES
SwA	SWANSEA MUCK, 0 TO 1 PERCENT SLOPES
UD	UDORTHENTS–URBAN LAND COMPLEX
W	WATER
Wa	WALPOLE SANDY LOAM

General Notes

1. THE PARCELS ARE FOUND ON ASSESSOR'S PLAT 50, LOT 71 & ASSESSOR'S PLAT 51/1, LOT 17 IN THE TOWN OF JOHNSTON, PROVIDENCE COUNTY, RHODE ISLAND.
2. THE OWNER OF LOT 71 PER DEED BOOK 856, PAGE 68 IS THE GREATER RHODE ISLAND BAPTIST TEMPLE.
3. THE OWNER OF LOT 17 PER DEED BOOK 1589, PAGE 131 IS DAC PROPERTIES, LLC.
4. THE PARCEL IS LOCATED IN ZONE X PER FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP 44007C0282G, DATED MARCH 2, 2009. THE SITE CONTAINS A STREAM WITHIN THE D & E SERIES WETLANDS AS WELL AS PONDS LOCATED WITHIN THE A, B, C, E AND I SERIES WETLANDS. AN ENGINEERING ANALYSIS OF THE EXISTING STREAMS AND PONDS HAS INDICATED AN APPROXIMATE 100–YEAR FLOOD ELEVATION AS SHOWN ON THE PLANS.
5. AP 51–1 LOT 17 AND A PORTION OF AP 50 LOT 71 IS ZONED B–3 PER TOWN COUNCIL ZONING APPROVAL ON 5/9/16. THE REMAINING PORTION OF AP 50 LOT 71 IS ZONED R–40 PER THE ASSESSOR'S ONLINE DATABASE. PLEASE CONTACT THE ZONING DEPARTMENT FOR ANY ADDITIONAL INFORMATION OR FOR A CERTIFICATE OF ZONING.
6. THERE ARE CEMETERIES, GRAVE SITES AND OR BURIAL GROUNDS OBSERVED WITHIN THE LIMITS OF THE SURVEY. (SEE SHEET 5)
7. FIELD SURVEY PERFORMED BY DIPRETE ENGINEERING IN SPRING OF 2016. THIS PLAN REFLECTS ON THE GROUND CONDITIONS AS OF THAT DATE.
8. ALL UNDERGROUND UTILITIES SHOWN ON THIS PLAN HAVE BEEN LOCATED FROM FIELD SURVEY OBSERVATIONS ONLY. DIPRETE ENGINEERING IS NOT RESPONSIBLE FOR MISSING UNDERGROUND UTILITIES, EITHER IN SERVICE OR ABANDONED, NOT OBSERVED AT THE TIME OF THE SURVEY. (PLEASE CONTACT DIGSAFE 72 WORKING HOURS PRIOR TO ANY CONSTRUCTION AT 1–888–344–7233).
9. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT. DIPRETE ENGINEERING IS NOT RESPONSIBLE FOR ANY UNKNOWN OR UNRECORDED EASEMENTS, DEEDS OR CLAIMS THAT A TITLE REPORT WOULD DISCLOSE.
10. PLEASE REFER TO RHODE ISLAND GENERAL LAW § 23–23–18–11 FOR BUILDING REQUIREMENTS AROUND A HISTORIC CEMETERY.
11. DIPRETE ENGINEERING IS NOT RESPONSIBLE FOR AN ARCHAEOLOGICAL INVESTIGATION NEEDED TO TO DETERMINE THE BOUNDARIES OF THE UNMARKED CEMETERY AS REQUIRED BY RHODE ISLAND GENERAL LAW § 23–23–18–11 SUBSECTION 2C.
12. WETLAND FLAGS DELINEATED BY DIPRETE ENGINEERING AND FIELD LOCATED USING SUB METER GPS TECHNOLOGY.

Boundary Reference

BOUNDARY SURVEY, CITIZEN BANK CAMPUS AP 50 LOT 71 AND AP 51/1 LOT 17 – GREENVILLE AVENUE, JOHNSTON, RHODE ISLAND. PLAN BY DIPRETE ENGINEERING. DATED MAY 3, 2016. SHEETS 1 AND 2.

Certification

THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO SECTION 9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON JANUARY 1, 2016, AS FOLLOWS:

TYPE OF SURVEY	MEASUREMENT SPECIFICATION
BOUNDARY SURVEY	CLASS I–SEE BOUNDARY REFERENCE
DATA ACCUMULATION SURVEY	CLASS T–3

THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS:
SITE ENGINEERING AND PERMITTING.

7/15/16

ROBERT G. BABCOCK, RIPLS #2504, COA #LS.000A160

ROBERT G. BABCOCK
No. 2504
PROFESSIONAL LAND SURVEYOR

Topographic & Datum Notes:

1. ELEVATIONS SHOWN HEREON, IN U.S. SURVEY FEET, ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), AS DETERMINED BY DIPRETE ENGINEERING USING REAL–TIME KINEMATIC G.P.S. OBSERVATIONS.
2. THE TOPOGRAPHY AND PARAMETRIC FEATURES ON THIS PLAN WERE PREPARED BY COL–EAST, INC. AERIAL PHOTOGRAPHY COMPANY USING AERIAL PHOTOGRAPHS, DATED: MARCH 9, 2016. THE MAP HAS BEEN PREPARED TO CONFORM TO THE STANDARDS PUBLISHED BY THE FEDERAL GEOGRAPHIC DATA COMMITTEE FOUND IN GEOSPATIAL POSITIONING ACCURACY STANDARDS PART 3: NATIONAL STANDARD FOR SPATIAL DATA ACCURACY (FGDC–STD–007.3–1998), AS MAY BE AMENDED AS STATED IN RULES AND REGULATIONS FOR PROFESSIONAL LAND SURVEYING IN THE STATE OF RHODE ISLAND, EFFECTIVE DATE: NOVEMBER 25, 2015. AFTER SITE CLEARING BUT "PRIOR" TO CONSTRUCTION, THE GRADES, ELEVATIONS AND LOCATIONS WILL BE FIELD VERIFIED BY THE CONTRACTOR AND ANY DIFFERENCES PRESENTED TO DIPRETE ENGINEERING. IT IS ESSENTIAL THAT ANY DISCREPANCIES IN THE MAPPING BE DEALT WITH PRIOR TO CONSTRUCTION COMMENCEMENT.

Scale: 1"=80'
0 40' 80' 160'

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: OCT 19 2016 FILE # 16-0158
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Signature: Heather D. Gilmore

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Boston • Providence • Newport

BRIAN C. GIROUX
No. 9341
7/15/2016
REGISTERED PROFESSIONAL ENGINEER
CIVIL

Environmental Management
AUG 1 2016
Office of Water Resources

This regulatory submission set shall not be used for construction purposes unless stamped "Issued for Construction" and signed by a DiPrete Engineering representative.

The contractor is responsible for all of the means, methods, safety precautions and requirements and OSHA conformance in the implementation of this plan and design.

No.	Date	Description	Drawn By/MT
1	2/10/16	Updated Boundary Survey	DRN
2	6/15/16	Updated Boundary Survey	DRN
3	6/15/16	Updated Boundary Survey	DRN
4	7/15/16	Updated Boundary Survey	BC

Existing Conditions Plan - 1

Citizens Bank Campus

AP 50 Lot 71 and AP 51/1 Lot 17 – Greenville Avenue
Johnston, Rhode Island

Prepared For:
Citizens Bank®
One Citizens Plaza, Providence, Rhode Island 02903

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SHEET 4 OF 38

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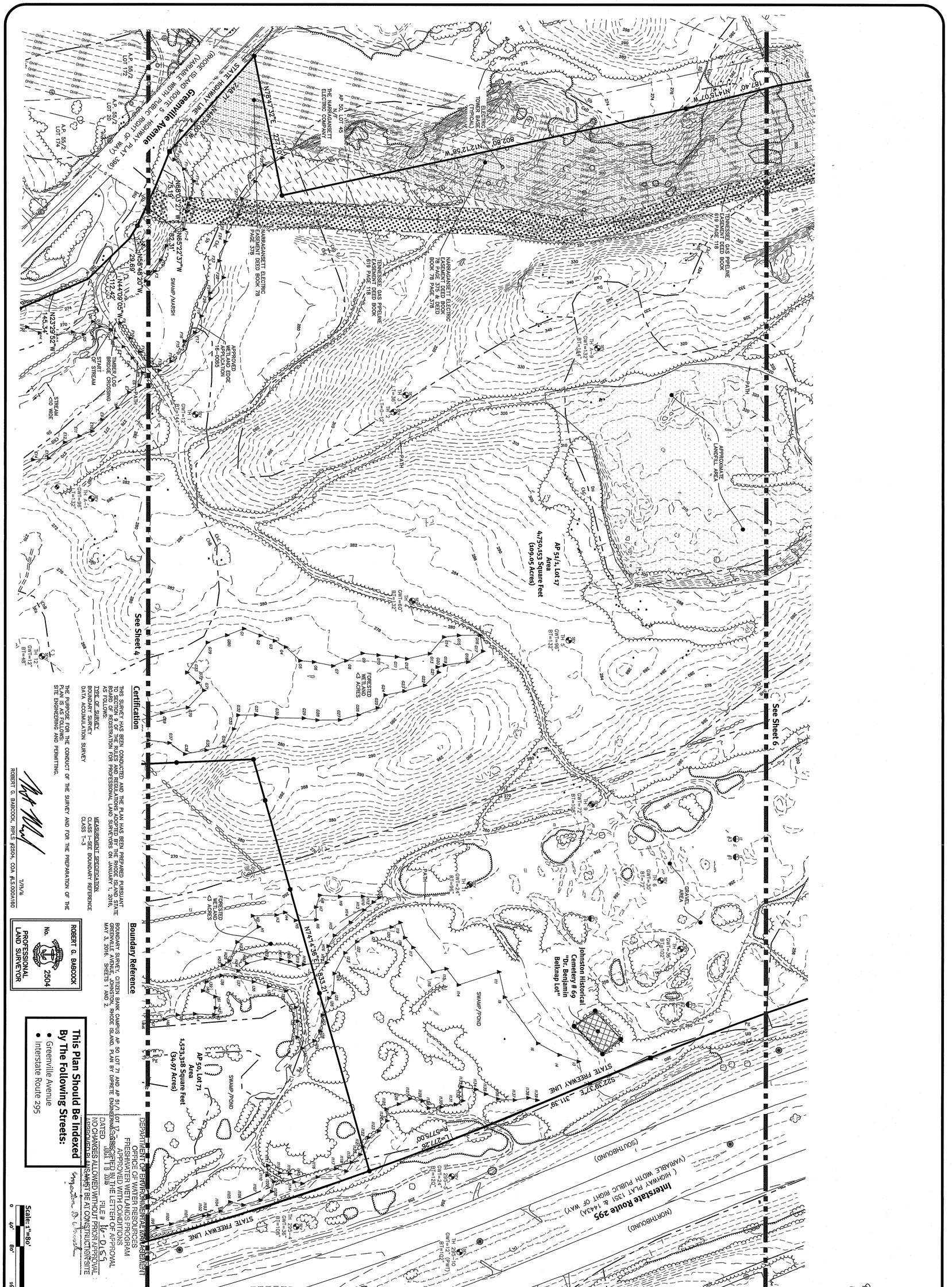
\\deastorage\demain\projects\2367-001 greenville glen\autocad drawings\2367-001-exco.dwg Plotted: 7/15/2016



Certification

THIS SURVEY HAS BEEN CONDUCTED, AND THE PLAN HAS BEEN PREPARED PURSUANT TO THE RULES AND REGULATIONS GOVERNING THE PRACTICE OF LAND SURVEYING AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON JANUARY 14, 2016, AS FOLLOWS:

TYPE OF SURVEY: BOUNDARY SURVEY
TYPE OF PROPERTY: DATA ACCUMULATION SURVEY
MEASUREMENT SPECIFICATION: CLASS I-3
ATTRIBUTE ACCURACY: SIZE BOUNDARY REFERENCE

THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THE PLAN IS FOR: ENGINEERING AND PERMITTING.

ROBERT G. BABCOCK, RIPLS #2504, COA #LS-000A160 — 7/15/16

ROBERT G. BABCOCK
No. 2504
PROFESSIONAL LAND SURVEYOR

Boundary Reference

BOUNDARY SURVEY, CITIZEN BANK CAMPUS AP 50 LOT 71 AND AP 51/1 LOT 17 - GREENVILLE AVENUE, JOHNSTON, RHODE ISLAND, PLAN BY DIPRETE ENGINEERING, DATED MAY 3, 2016, SHEETS 1 AND 2.

This Plan Should Be Indexed By The Following Streets:

- Greenville Avenue
- Interstate Route 295

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS DESCRIBED IN THE LETTER OF APPROVAL
DATED JUL 19 2016
FILE # 16-0155
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
A COPY OF APPROVED PLANS SHALL BE AT CONSTRUCTION SITE

Scales: 1"=80'
0 40' 80' 160'

Existing Conditions Plan - 2

Citizens Bank Campus

AP 50 Lot 71 and AP 51/1 Lot 17 - Greenville Avenue
Johnston, Rhode Island

Prepared For:
Citizens Bank®
One Citizens Plaza, Providence, Rhode Island 02903

SHEET 5 OF 38

No.	Date	Description	By:
3	7-13-16	Updated Boundary Survey	DRN
2	6-13-16	Updated Boundary Survey	DRN
1	6-1-16	Updated Boundary Survey	DRN
0	5-3-16	Boundary Survey	JAD

Drawn By:MTI

This regulatory submission set shall not be used for construction purposes unless stamped 'Issued for Construction' and signed by a DiPrete Engineering representative.

The contractor is responsible for all of the means, methods, safety precautions and requirements, and OSHA conformance in the implementation of this plan and design.

Environmental Management
AUG 1 2016
Office of Water Resources

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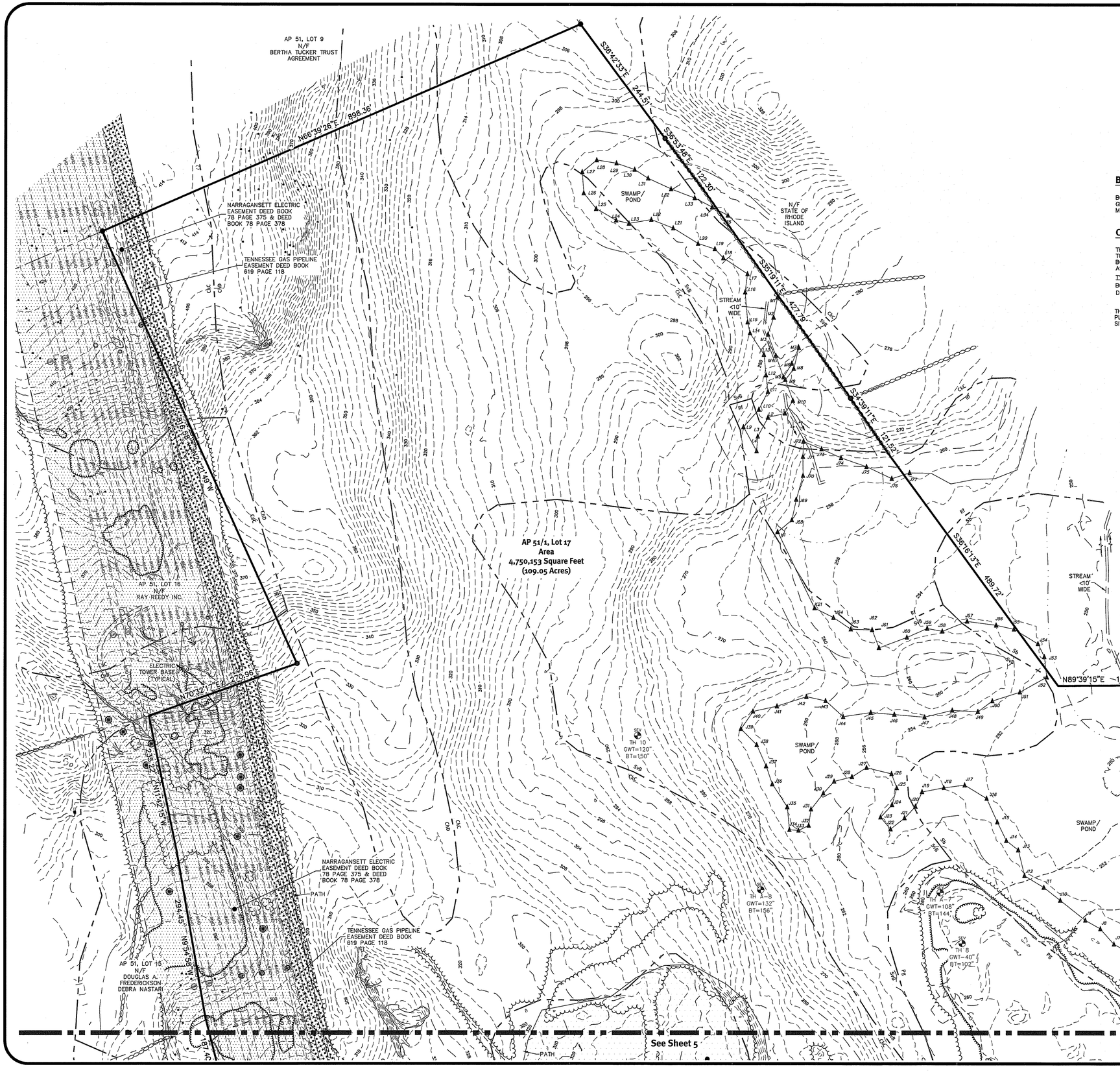

Boundary Reference

BOUNDARY SURVEY, CITIZEN BANK CAMPUS AP 50 LOT 71 AND AP 51/1 LOT 17 – GREENVILLE AVENUE, JOHNSTON, RHODE ISLAND. PLAN BY DIPRETE ENGINEERING. DATED MAY 3, 2016. SHEETS 1 AND 2.

Certification

THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO SECTION 9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON JANUARY 1, 2016, AS FOLLOWS:

TYPE OF SURVEY	MEASUREMENT SPECIFICATION
BOUNDARY SURVEY	CLASS I–SEE BOUNDARY REFERENCE
DATA ACCUMULATION SURVEY	CLASS T–3

THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS:
SITE ENGINEERING AND PERMITTING.

7/15/16
ROBERT G. BABCOCK, RIPLS #2504, COA #LS.000A160

ROBERT G. BABCOCK
No. 2504
PROFESSIONAL LAND SURVEYOR

This Plan Should Be Indexed By The Following Streets:
- Greenville Avenue
- Interstate Route 295

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED OCT 19 2016 FILE # 16-0159
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
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BRIAN C. GIROUX
No. 9341
REGISTERED PROFESSIONAL ENGINEER
CIVIL

Environmental Management
AUG 1 2016
Office of Water Resources

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The contractor is responsible for all of the means, methods, safety precautions and requirements, and OSHA conformance in the implementation of this plan and design.

No.	Date	Description	Drawn By/AMT
3	7/13/16	Updated Boundary Survey	DRN
2	6/13/16	Updated Boundary Survey	DRN
1	5/3/16	Updated Boundary Survey	AMT
0	5/1/16	Boundary Survey	AJD

Existing Conditions Plan - 3

Citizens Bank Campus

AP 50 Lot 71 and AP 51/1 Lot 17 - Greenville Avenue
Johnston, Rhode Island

Prepared For:
Citizens Bank®
One Citizens Plaza, Providence, Rhode Island 02903

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SHEET 6 OF 38

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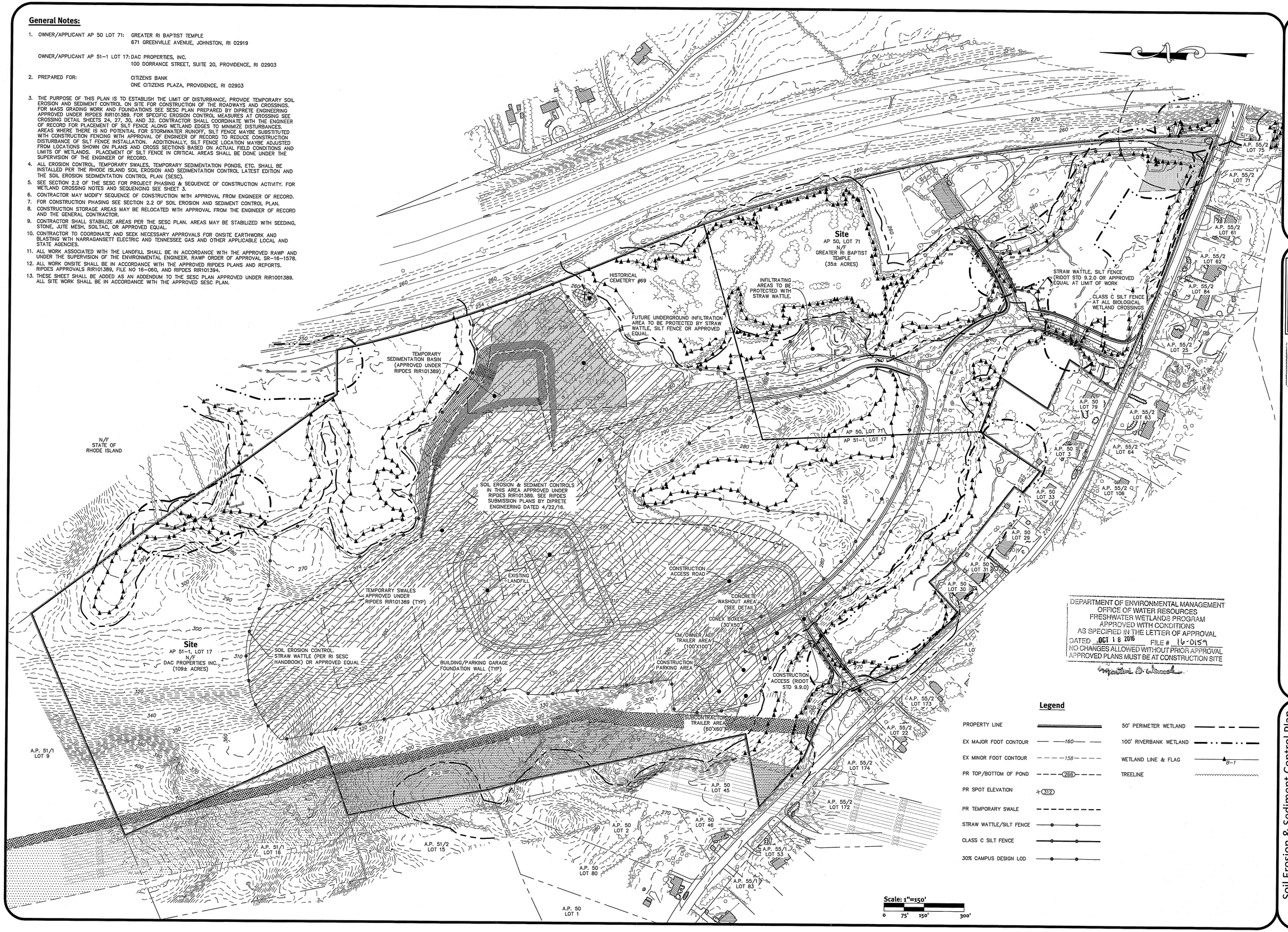
General Notes:

1. OWNER/APPLICANT AP 50 LOT 71: GREATER RI BAPTIST TEMPLE
   671 GREENVILLE AVENUE, JOHNSTON, RI 02919

   OWNER/APPLICANT AP 51-1 LOT 17: DAC PROPERTIES, INC.
   100 DORRANCE STREET, SUITE 20, PROVIDENCE, RI 02903

2. PREPARED FOR: CITIZENS BANK
   ONE CITIZENS PLAZA, PROVIDENCE, RI 02903

3. THE PURPOSE OF THIS PLAN IS TO ESTABLISH THE LIMIT OF DISTURBANCE, PROVIDE TEMPORARY SOIL EROSION AND SEDIMENT CONTROL ON SITE FOR CONSTRUCTION OF THE ROADWAYS AND CROSSINGS. FOR MASS GRADING WORK AND FOUNDATIONS SEE SESC PLAN PREPARED BY DIPRETE ENGINEERING APPROVED UNDER RIPDES RIR101389. FOR SPECIFIC EROSION CONTROL MEASURES AT CROSSING SEE CROSSING DETAIL SHEETS 24, 27, 30, AND 32. CONTRACTOR SHALL COORDINATE WITH THE ENGINEER OF RECORD FOR PLACEMENT OF SILT FENCE ALONG WETLAND EDGES TO MINIMIZE DISTURBANCES. AREAS WHERE THERE IS NO POTENTIAL FOR STORMWATER RUNOFF, SILT FENCE MAYBE SUBSTITUTED WITH CONSTRUCTION FENCING WITH APPROVAL OF ENGINEER OF RECORD TO REDUCE CONSTRUCTION DISTURBANCE OF SILT FENCE INSTALLATION. ADDITIONALLY, SILT FENCE LOCATION MAYBE ADJUSTED FROM LOCATIONS SHOWN ON PLANS AND CROSS SECTIONS BASED ON ACTUAL FIELD CONDITIONS AND LIMITS OF WETLANDS. PLACEMENT OF SILT FENCE IN CRITICAL AREAS SHALL BE DONE UNDER THE SUPERVISION OF THE ENGINEER OF RECORD.
4. ALL EROSION CONTROL, TEMPORARY SWALES, TEMPORARY SEDIMENTATION PONDS, ETC. SHALL BE INSTALLED PER THE RHODE ISLAND SOIL EROSION AND SEDIMENTATION CONTROL LATEST EDITION AND THE SOIL EROSION SEDIMENTATION CONTROL PLAN (SESC).
5. SEE SECTION 2.2 OF THE SESC FOR PROJECT PHASING & SEQUENCE OF CONSTRUCTION ACTIVITY. FOR WETLAND CROSSING NOTES AND SEQUENCING SEE SHEET 3.
6. CONTRACTOR MAY MODIFY SEQUENCE OF CONSTRUCTION WITH APPROVAL FROM ENGINEER OF RECORD.
7. FOR CONSTRUCTION PHASING SEE SECTION 2.2 OF SOIL EROSION AND SEDIMENT CONTROL PLAN.
8. CONSTRUCTION STORAGE AREAS MAY BE RELOCATED WITH APPROVAL FROM THE ENGINEER OF RECORD AND THE GENERAL CONTRACTOR.
9. CONTRACTOR SHALL STABILIZE AREAS PER THE SESC PLAN. AREAS MAY BE STABILIZED WITH SEEDING, STONE, JUTE MESH, SOILTAC, OR APPROVED EQUAL.
10. CONTRACTOR TO COORDINATE AND SEEK NECESSARY APPROVALS FOR ONSITE EARTHWORK AND BLASTING WITH NARRAGANSETT ELECTRIC AND TENNESSEE GAS AND OTHER APPLICABLE LOCAL AND STATE AGENCIES.
11. ALL WORK ASSOCIATED WITH THE LANDFILL SHALL BE IN ACCORDANCE WITH THE APPROVED RAWP AND UNDER THE SUPERVISION OF THE ENVIRONMENTAL ENGINEER. RAWP ORDER OF APPROVAL SR-16-1578.
12. ALL WORK ONSITE SHALL BE IN ACCORDANCE WITH THE APPROVED RIPDES PLANS AND REPORTS. RIPDES APPROVALS RIR101389, FILE NO 16-060, AND RIPDES RIR101394.
13. THESE SHEET SHALL BE ADDED AS AN ADDENDUM TO THE SESC PLAN APPROVED UNDER RIR10013389. ALL SITE WORK SHALL BE IN ACCORDANCE WITH THE APPROVED SESC PLAN.



Legend

- PROPERTY LINE
- EX MAJOR FOOT CONTOUR — 160
- EX MINOR FOOT CONTOUR — 158
- PR TOP/BOTTOM OF POND — 268
- PR SPOT ELEVATION + 312
- PR TEMPORARY SWALE
- STRAW WATTLE/SILT FENCE
- CLASS C SILT FENCE
- 30% CAMPUS DESIGN LOD
- 50' PERIMETER WETLAND
- 100' RIVERBANK WETLAND
- WETLAND LINE & FLAG — B-1
- TREELINE

Scale: 1"=150'
0 75' 150' 300'

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED OCT 18 2016 FILE # 16-0159
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Jacqueline D. Woods

DiPrete Engineering
Two Stafford Court Cranston, RI 02920
tel 401-943-1000 fax 401-464-6006 www.diprete-eng.com
Boston • Providence • Newport

BRIAN C. GIROUX
9341
REGISTERED PROFESSIONAL ENGINEER
CIVIL

Environmental Management
AUG 1 2016
Office of Water Resources

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The contractor is responsible for all of the means, methods, safety precautions and equipment and OSHA conformance in the implementation of this plan and design.

No.	Date	Description	By:
1	2-13-2016	RIDEM Formal Wetland RFC Submission	AJO/DBN
0	6-13-2016	RIDEM Formal Wetland Submission	AJO/DBN
		Design By:BJG	
		Drawn By:AJO/DBN	

Soil Erosion & Sediment Control Plan

Citizens Bank Campus

AP 50 Lot 71 and AP 51/1 Lot 17 - Greenville Avenue
Johnston, Rhode Island

Prepared For:
Citizens Bank
One Citizens Plaza
Providence, Rhode Island 02903

Applicant APs/Lot 71:
Greater RI Baptist Temple
671 Greenville Avenue
Johnston, RI 02919

Applicant APs/Lot 17:
DAC Properties, Inc.
100 Dorrance Street
Providence, RI 02903

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Buildable Analysis:

	AP 51-1 LOT 17	AP 50 LOT 71
TOTAL LOT AREA:	109.05 ACRES	34.97 ACRES
WETLAND AREA:	17.29 ACRES	15.68 ACRES
EASEMENT AREA:	7.73 ACRES	1.50 ACRES
TOTAL NON-BUILDABLE AREA	24.18 ACRES	16.78 ACRES
DEVELOPABLE AREA:	84.87 ACRES	18.19 ACRES
TOTAL DEVELOPABLE AREA:	103.06 ACRES (FULL SITE)	

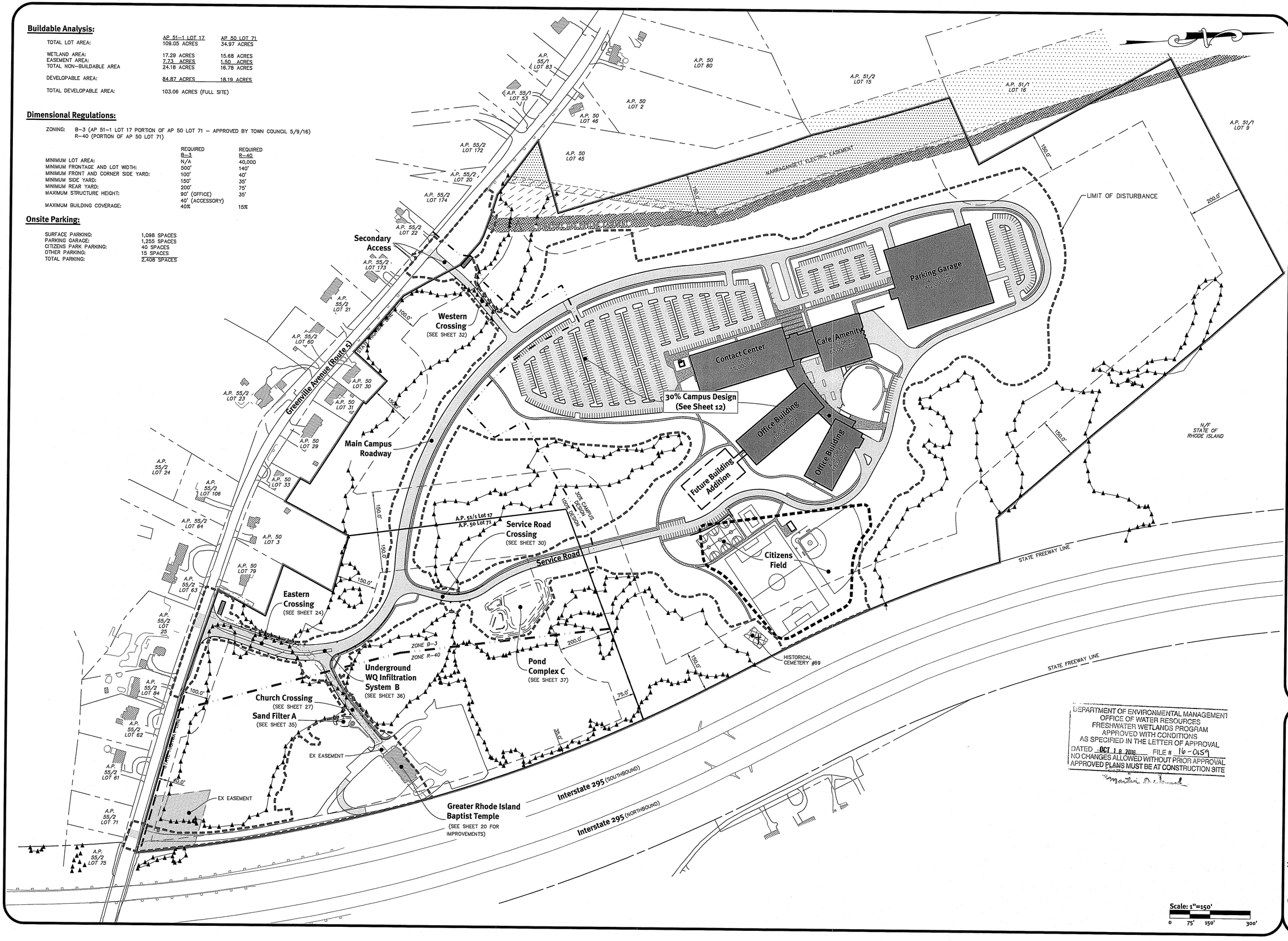
Dimensional Regulations:

ZONING: B-3 (AP 51-1 LOT 17 PORTION OF AP 50 LOT 71 – APPROVED BY TOWN COUNCIL 5/9/16)
R-40 (PORTION OF AP 50 LOT 71)

	REQUIRED B-3	REQUIRED R-40
MINIMUM LOT AREA:	N/A	40,000
MINIMUM FRONTAGE AND LOT WIDTH:	500'	140'
MINIMUM FRONT AND CORNER SIDE YARD:	100'	40'
MINIMUM SIDE YARD:	150'	35'
MINIMUM REAR YARD:	200'	75'
MAXIMUM STRUCTURE HEIGHT:	90' (OFFICE) 40' (ACCESSORY)	35'
MAXIMUM BUILDING COVERAGE:	40%	15%

Onsite Parking:

SURFACE PARKING:	1,098 SPACES
PARKING GARAGE:	1,255 SPACES
CITIZENS PARK PARKING:	40 SPACES
OTHER PARKING:	15 SPACES
TOTAL PARKING:	2,408 SPACES



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Megan D. Hamel

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BRIAN C. GIROUX
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REGISTERED PROFESSIONAL ENGINEER
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10/31/2016

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No.	Date	Description	By
2	7-28-2016	DRAM Responses to Comments	DRN
1	2-23-2016	DRAM Formal Wetland RFC Submission	JAD/DRN
0	2-23-2016	DRAM Formal Wetland Submission	JAD/DRN

Drawn By:JAD/DRN | Design By:JCG

Overall Site Layout Plan & LOD

Citizens Bank Campus

AP 50 Lot 71 and AP 51/1 Lot 17 - Greenville Avenue
Johnston, Rhode Island

Prepared for:
Citizens Bank®
One Citizens Plaza
Providence, Rhode Island 02903

Applicant AP50/1 Lot 71:
Greater RI Baptist Temple
671 Greenville Avenue
Johnston, RI 02919

Applicant AP50/1 Lot 17:
DAC Properties, Inc.
300 Dorrance Street
Providence, RI 02903

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SHEET 8 OF 38

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BRIAN C. GIROUX
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No.	Date	Description	By
1	2-13-2016	RIDEM Formal Wetland RFC Submission	JAD/DBN
0	6-13-2016	RIDEM Formal Wetland Submission	JAD/DBN

Drawn By:JAD/DBN Design By:BCG

Site Layout - 1

Citizens Bank Campus

AP 50 Lot 71 and AP 51/1 Lot 17 - Greenville Avenue
Johnston, Rhode Island
Prepared for:
Citizens Bank
One Citizens Plaza
Providence, Rhode Island 02903

Applicant APs 51/1 Lot 17:
Greater RI Baptist Temple
1300 Greenville Avenue
Johnston, RI 02919

Applicant APs 50 Lot 71:
JoC Properties, Inc.
1300 Greenville Avenue
Providence, RI 02903

SHEET 9 OF 38

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Inset: Secondary Access & Greenville Avenue Intersection (Sta 262+22)

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

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED OCT 18 2016 FILE # 16-0159
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

DiPrete Engineering
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BRIAN C. GIROUX
No. 19341
REGISTERED PROFESSIONAL ENGINEER
CIVIL

Environmental Management
AUG 1 2016
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No.	Date	Description	By
1	2-13-2016	RIDEM Formal Wetland & ICC Submission	ABD/DBS
2	6-30-2016	RIDEM Formal Wetland Submission	ABD/DBS

Drawn By:ABD/DBN Design By:ECG

Site Layout - 2

Citizens Bank Campus

AP 50 Lot 77 and AP 55/1 Lot 17 - Greenville Avenue
Johnston, Rhode Island

Prepared For:
Citizens Bank®
One Citizens Plaza
Providence, Rhode Island 02903

Applicant AP50 Lot 77:
Greater Ri Baptist Temple
671 Greenville Avenue
Johnston, RI 02919

Applicant AP55/1 Lot 17:
DAC Properties, Inc.
100 Dorrance Street
Providence, RI 02903

SHEET 10 OF 38

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A.P. 51/1 Lot 17
A.P. 50 Lot 71

305' CAMPUS DESIGN (SEE SHEET 12)

150.0'

150.0'

150.0'

200.0'

See sheet 9

Service Road

6.0'

5.0'

24.0'

674+00

664+00

654+00

644+00

Pond Complex C
(SEE SHEET 37)

North

Scale: 1"=40'
0 20' 40' 80'

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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8/05/2016
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No.	Date	Description	By
1	2-3-2016	RIDEM Forma Wetland Reg. Submission	JDO/DBN
0	6-2-2016	Initial Forma Wetland Submission	JDO/DBN

Design by:KCG
Drawn by:JDO/DBN

Site Layout - 3

Citizens Bank Campus

AP 50 Lot 71 and AP 51/1 Lot 17 - Greenville Avenue
Johnston, Rhode Island

Prepared For:
Citizens Bank®
One Citizens Plaza
Providence, Rhode Island 02903

Applicant AP50/1 Lot 71:
Greater RI Baptist Temple
671 Greenville Avenue
Johnston, RI 02919

Applicant AP50/1 Lot 17:
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SHEET 11 OF 38

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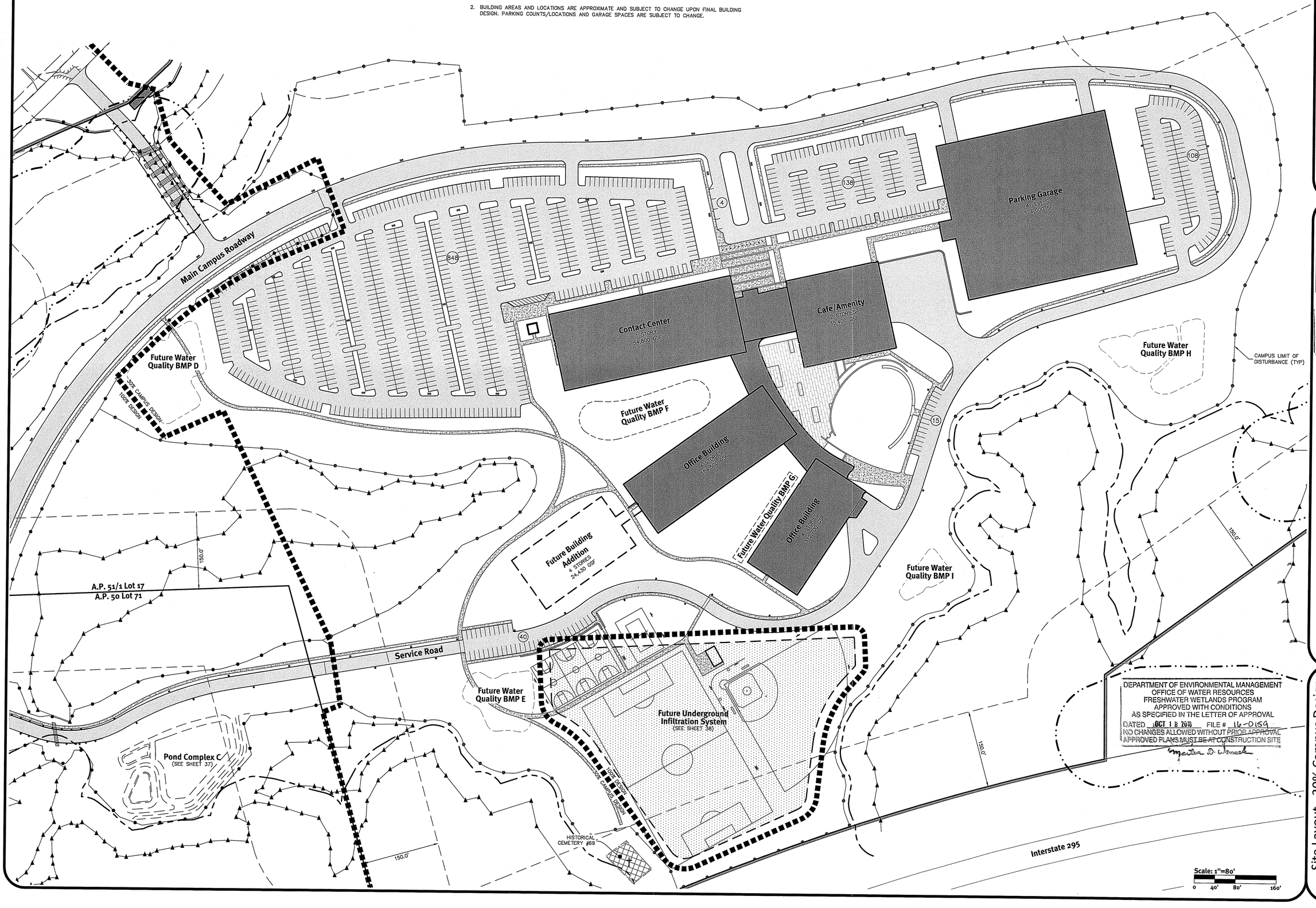
Notes:

1. THE PURPOSE OF THIS PLAN IS TO ILLUSTRATE THE MAIN CAMPUS 30% DESIGN. THIS PLAN SHOWS THE CAMPUS SITE LAYOUT DESIGN AND STORMWATER PRACTICES TO MEET THE RISDISM. FOR FURTHER DETAILS SEE SHEET 16.
2. BUILDING AREAS AND LOCATIONS ARE APPROXIMATE AND SUBJECT TO CHANGE UPON FINAL BUILDING DESIGN. PARKING COUNTS/LOCATIONS AND GARAGE SPACES ARE SUBJECT TO CHANGE.



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Site Layout - 30% Campus Design

Citizens Bank Campus

AP 50 Lot 71 and AP 51/1 Lot 17 - Greenville Avenue
Johnston, Rhode Island

SHEET 12 OF 38

Prepared For:
Citizens Bank®
One Citizens Plaza
Providence, Rhode Island 02903

Applicant AP51/1 Lot 17:
Greater RI Baptist Temple
671 Greenville Avenue
Johnston, RI 02919

Applicant AP50 Lot 71:
DAC Properties, Inc.
100 Dorrance Street
Providence, RI 02903

No.	Date	Description	By
1	7-13-2016	RIDEM Formal Wetland Rev. Submission	JAD/DRK
2	8-3-2016	RIDEM Formal Wetland Submission	JAD/DRK

Drawn By:JAD/DRK Design By:ACG

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BRIAN C. GIROUX
No. 19341
REGISTERED PROFESSIONAL ENGINEER
CIVIL
7/13/2016

Environmental Management
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Office of Water Resources

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OFFICE OF WATER RESOURCES
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DATED OCT 18, 2016 FILE # 16-0159
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BRIAN C. GROUX
No. 9341
10/19/2016
REGISTERED PROFESSIONAL ENGINEER
CIVIL

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OCT 18 2016
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No.	Description	By	Date
1	RIDEM Formal Wetland Submission Update	JVD/DBN	10-18-2016
2	RIDEM Formal Wetland SCC Submission	JVD/DBN	10-13-2016
3	RIDEM Formal Wetland SCC Submission	JVD/DBN	9-23-2016

Drawn By:JVD/DBN Design By:RCG

Grading & Surface Drainage Plan - 1

Citizens Bank Campus

AP 50 Lot 71 and AP 51/1 Lot 17 - Greenville Avenue
Johnston, Rhode Island

Prepared For:
Citizens Bank
One Citizens Plaza
Providence, Rhode Island 02903

Applicant APSys Lot 71:
Greater RI Baptist Temple
1 Greenville Avenue
Johnston, RI 02919

Applicant APSys Lot 17:
Citizens Bank
Attn: Real Estate
One Citizens Plaza
Providence, RI 02903

SHEET 13 OF 38

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FRESHWATER WETLANDS PROGRAM
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No. 9341
REGISTERED PROFESSIONAL ENGINEER
CIVIL

Environmental Management
AUG 1 2016
Office of Water Resources

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No.	Date	Description	By
1.	2/3/2016	RIDEM Fresh Wetland SER Submission	MD/DBN
2.	7/14/2016	RIDEM Fresh Wetland Submission	MD/DBN

Drawn By:MD/DBN Design By:BCG

Grading & Surface Drainage Plan - 2

Citizens Bank Campus

AP 50 Lot 71 and AP 55/1 Lot 17 - Greenville Avenue
Johnston, Rhode Island

Prepared For:
Citizens Bank®
One Citizens Plaza
Providence, Rhode Island 02903

Applicant AP50/1 Lot 71:
Greater RI Baptist Temple
671 Greenville Avenue
Johnston, RI 02919

Applicant AP50/1 Lot 17:
DAC Properties, Inc.
100 Dorrance Street
Providence, RI 02903

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SHEET 14 OF 38

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BRIAN C. GIROUX
No. 9341
REGISTERED PROFESSIONAL ENGINEER
CIVIL
3/31/2016

Environmental Management
AUG 1 2016
Office of Water Resources

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The contractor is responsible for all of the means, methods, techniques, sequences and procedures and OSHA conformance in the implementation of this plan and design.

No.	Date	Description	By:
0	2-10-2016	RIDEM Formal Wetland &FEC Submission	AG/DBN
1	6-13-2016	RIDEM Formal Wetland Submission	AG/DBN

Drawn By:AG/DBN Design By:BCG

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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Grading & Surface Drainage Plan - 3

Citizens Bank Campus

AP 50 Lot 71 and AP 51/1 Lot 17 - Greenville Avenue
Johnston, Rhode Island

Prepared For:
Citizens Bank®
One Citizens Plaza
Providence, Rhode Island 02903

Applicant AP50 Lot 71:
Greater RI Baptist Temple
671 Greenville Avenue
Johnston, RI 02919

Applicant AP51/1 Lot 17:
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100 Dorrance Street
Providence, RI 02903

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SHEET 15 OF 38

Scale: 1"=40'
0 20' 40' 80'

See Sheet 13

A.P. 51/1 Lot 17
A.P. 50 Lot 71

3½% CAMPUS DESSION (SEE SHEET 12)

Service Road

Pond Complex C
(SEE SHEET 37)

SMH-8 RIM=271.57
CB-38 RIM=271.50
SMH-9 RIM=273.32
CB-39 RIM=271.50
STUB-10

3:1 SLOPE
2:1 SLOPE (TYP)
4:1 SLOPE

TH 1 GWT=48" BT=108"
TH 5 GWT=96" BT=132"
TH 6 GWT=30"
TH 9 GWT=72" BT=108"
TH 11 GWT=24" BT=96"
TH 75 GWT=36" BT=102"

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Notes:

1. THE PURPOSE OF THIS PLAN IS TO ILLUSTRATE THE MAIN CAMPUS 30% DESIGN GRADING AND DRAINAGE DESIGN. THIS PLAN SHOWS PRELIMINARY DESIGN AND GENERAL STORMWATER MANAGEMENT. FINAL SYSTEMS WILL BE DESIGNED IN ACCORDANCE WITH THE RHODE ISLAND STORMWATER DESIGN AND INSTALLATION STANDARDS MANUAL.
2. GRADES SHOWN ON THIS PLAN ARE SUBJECT TO CHANGE AND ONLY DEMONSTRATE TYPICAL DRAINAGE PATTERNS.
3. SURFACE DRAINAGE FEATURES ON THIS PLAN ARE PRELIMINARY AND WILL BE FINALIZED DURING THE FINAL CAMPUS DESIGN. DRAINAGE FEATURE LOCATIONS MAY MOVE AND/OR BE ELIMINATED BASED ON FINAL DESIGN.

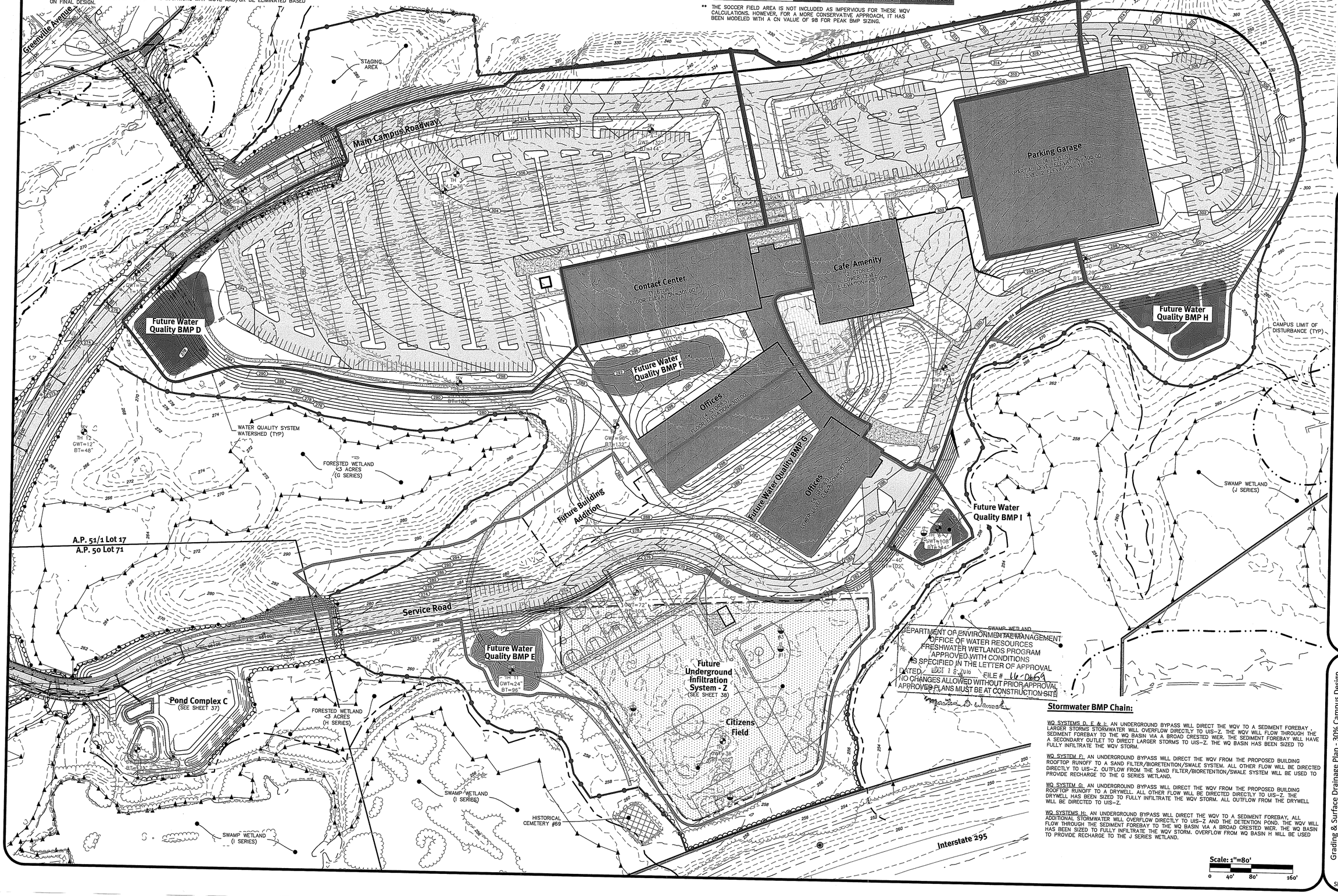
30% Campus Design WQ Information:

TOTAL PROPOSED IMPERVIOUS: 23.63± ACRES
TOTAL WQ TREATMENT OF IMPERVIOUS: 100%
MIN WQ VOLUME (1" OVER ALL IMPERVIOUS): 1.97 ACRE-FT*

*CPV & QP HANDLED BY THE UNDERGROUND INFILTRATION SYSTEM

DESCRIPTION	WQ-D	WQ-E	WQ-F	WQ-G	WQ-H	WQ-I
IMPERVIOUS AREA (ACRES)	4.06±	2.67±**	2.22±	1.73±	4.10±	5.04±
REQUIRED WQ VOLUME (ACRE-FT)	0.35±	0.22±	0.19±	0.14±	0.34±	0.42±
WQ POND TOP ELEVATION	285.0	267.0	VARIES	283.0	285.0	267.0
WQ POND BOTTOM ELEVATION	280.0	263.0	VARIES	285.5	276.0	263.0
SEASONAL HIGH GWT ELEVATION	277.0	255.0	271-292	272.0	262.0	259.0
SOIL EVALUATION		TH-11	TH-5	TH-5	TH-10	TH-A-7

** THE SOCCER FIELD AREA IS NOT INCLUDED AS IMPERVIOUS FOR THESE WQV CALCULATIONS. HOWEVER, FOR A MORE CONSERVATIVE APPROACH, IT HAS BEEN MODELED WITH A CN VALUE OF 98 FOR PEAK BMP SIZING.



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED OCT 18 2016 FILE # 16-0159
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Stormwater BMP Chain:

WQ SYSTEMS D, E & I: AN UNDERGROUND BYPASS WILL DIRECT THE WQV TO A SEDIMENT FOREBAY , LARGER STORMS STORMWATER WILL OVERFLOW DIRECTLY TO UIS-Z. THE WQV WILL FLOW THROUGH THE SEDIMENT FOREBAY TO THE WQ BASIN VIA A BROAD CRESTED WIER. THE SEDIMENT FOREBAY WILL HAVE A SECONDARY OUTLET TO DIRECT LARGER STORMS TO UIS-Z. THE WQ BASIN HAS BEEN SIZED TO FULLY INFILTRATE THE WQV STORM.

WQ SYSTEM F: AN UNDERGROUND BYPASS WILL DIRECT THE WQV FROM THE PROPOSED BUILDING ROOFTOP RUNOFF TO A SAND FILTER/BIORETENTION/SWALE SYSTEM. ALL OTHER FLOW WILL BE DIRECTED DIRECTLY TO UIS-Z. OUTFLOW FROM THE SAND FILTER/BIORETENTION/SWALE SYSTEM WILL BE USED TO PROVIDE RECHARGE TO THE G SERIES WETLAND.

WQ SYSTEM G: AN UNDERGROUND BYPASS WILL DIRECT THE WQV FROM THE PROPOSED BUILDING ROOFTOP RUNOFF TO A DRYWELL. ALL OTHER FLOW WILL BE DIRECTED DIRECTLY TO UIS-Z. THE DRYWELL HAS BEEN SIZED TO FULLY INFILTRATE THE WQV STORM. ALL OUTFLOW FROM THE DRYWELL WILL BE DIRECTED TO UIS-Z.

WQ SYSTEMS H: AN UNDERGROUND BYPASS WILL DIRECT THE WQV TO A SEDIMENT FOREBAY, ALL ADDITIONAL STORMWATER WILL OVERFLOW DIRECTLY TO UIS-Z AND THE DETENTION POND. THE WQV WILL FLOW THROUGH THE SEDIMENT FOREBAY TO THE WQ BASIN VIA A BROAD CRESTED WIER. THE WQ BASIN HAS BEEN SIZED TO FULLY INFILTRATE THE WQV STORM. OVERFLOW FROM WQ BASIN H WILL BE USED TO PROVIDE RECHARGE TO THE J SERIES WETLAND.

Scale: 1"=80'
0 40' 80' 160'

DiPrete Engineering
Two Stafford Court Cranston, RI 02920
tel 401-943-1000 fax 401-464-6006 www.diprete-eng.com
Boston • Providence • Newport

BRIAN C. GIROUX
No. 19341
REGISTERED PROFESSIONAL ENGINEER
CIVIL
7/5/2016

Environmental Management
AUG 1 2016
Office of Water Resources

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The contractor is responsible for all of the means, methods, safety precautions and requirements, and OSHA conformance in the implementation of this plan and design.

No.	Date	Description	By
3	7/5/2016	RIDEM Forms Wetland &ER Submission	ADV/DBS
2	2/23/2016	RIDEM Freshwater Wetlands Submission	ADV/DBS
1	2/23/2016	30% Design Submission	ADV/DBS

Design By:BGS
Drawn By:MD/DBH

Grading & Surface Drainage Plan - 30% Campus Design

Citizens Bank Campus

AP 50 Lot 71 and AP 51/1 Lot 17 - Greenville Avenue
Johnston, Rhode Island

Prepared For:
Citizens Bank
One Citizens Plaza
Providence, Rhode Island 02903

Applicant APsp/Lot 71:
Greater RI Baptist Temple
671 Greenville Avenue
Johnston, RI 02919

Applicant APsp/Lot 17:
DAC Properties, Inc.
100 Dorrance Street
Providence, RI 02903

SHEET 16 OF 38

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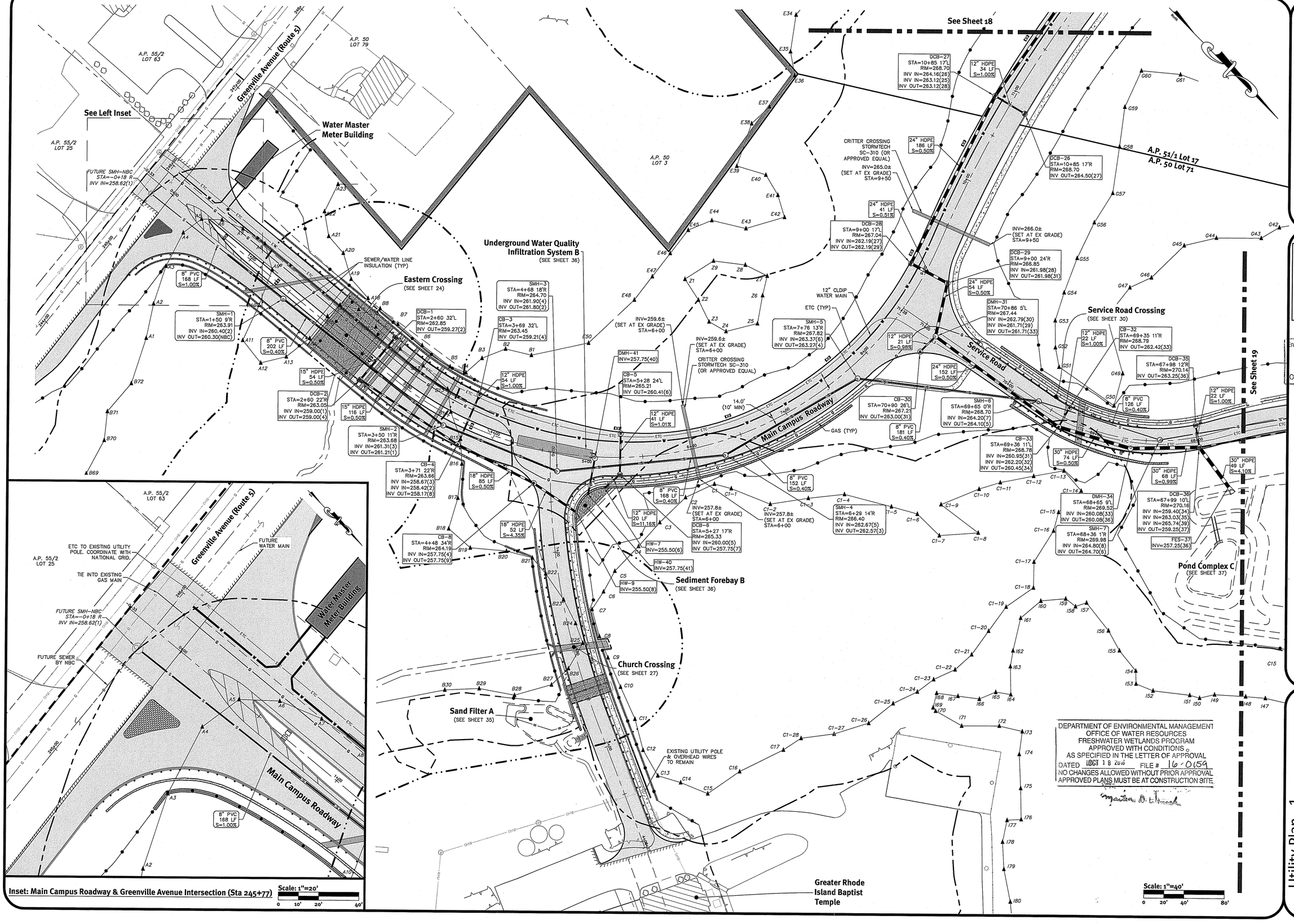

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BRIAN C. GIROUX
No. 9341
REGISTERED PROFESSIONAL ENGINEER
CIVIL

Environmental Management
AUG 1 2016
Office of Water Resources

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The contractor is responsible for all of the means, methods, techniques, sequences and procedures and OSHA conformance in the implementation of this plan and design.

No.	Date	Description	Drawn By	Design By
1	7-13-2015	RIDEM Formal Wetland Rec. Submission	AD/DNJ	
2	6-13-2016	RIDEM Formal Wetland Submission	AD/DNJ	

Utility Plan - 1

Citizens Bank Campus

AP 50 Lot 71 and AP 51/1 Lot 17 - Greenville Avenue
Johnston, Rhode Island

Prepared For:
Citizens Bank®
One Citizens Plaza
Providence, Rhode Island 02903

Applicant AP51/1 Lot 17:
DAC Properties, Inc.
300 Dorenez Street
Providence, RI 02903

Applicant AP50 Lot 71:
Greater RI Baptist Temple
671 Greenville Avenue
Johnston, RI 02919

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SHEET 17 OF 38

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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED OCT 18 2016 FILE # 16-0159
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DiPrete Engineering
Two Stafford Court Cranston, RI 02920
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BRIAN C. GIROUX
No. 6341
REGISTERED PROFESSIONAL ENGINEER
CIVIL

Environmental Management
AUG 1 2016
Office of Water Resources

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The contractor is responsible for all of the means, methods, safety precautions and requirements, and OSHA conformance in the implementation of this plan and design.

No.	Date	Description	Design By:BJG
1	2-13-2016	RIDEM Formal Wetland Rec. Submission	Drawn By:AJO/DRN
0	6-13-2016	RIDEM Formal Wetland Submission	AJO/DRN

Utility Plan - 2

Citizens Bank Campus

AP 50 Lot 71 and AP 51/1 Lot 17 - Greenville Avenue
Johnston, Rhode Island

Prepared For:
Citizens Bank®
One Citizens Plaza
Providence, Rhode Island 02903

Applicant AP50/1 Lot 17:
DAC Properties, Inc.
50 Dorrance Street
Providence, RI 02903

Applicant AP50/1 Lot 71:
Greater RI Baptist Temple
671 Greenville Avenue
Johnston, RI 02919

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SHEET 18 OF 38

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A.P. 51/1 Lot 17
A.P. 50 Lot 71

30% CAMPUS DESIGN
(SEE SHEET 12)

See Sheet 17

SMH-8
STA=66+79 0'
RIM=271.57
INV IN=265.53(9)
INV OUT=265.43(7)

CB-38
STA=66+64 11'R
RIM=271.50
INV OUT=267.30(39)

12" HDPE
22 LF
S=1.00%

8" PVC
175 LF
S=0.40%

SMH-9
STA=65+04 0'
RIM=273.32
INV IN=266.33(10)
INV OUT=266.23(8)

8" PVC
157 LF
S=0.40%

STUB-10

Service Road

CONTINUE UTILITIES
FOR FUTURE CAMPUS
CONNECTION

12" HDPE
134 LF
S=1.00%

CB-39
STA=66+64 11'L
RIM=271.50
INV IN=267.08(38)
INV OUT=267.08(36)

Pond Complex C
(SEE SHEET 37)

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED OCT 18 2016 FILE # 16-0159
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

Scale: 1"=40'
0 20' 40' 80'

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BRIAN C. GIROUX
No. 8341
7/19/2016
REGISTERED
PROFESSIONAL ENGINEER
CIVIL

Environmental Management
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The contractor is responsible for all of the means, methods, safety precautions and requirements, and OSHA compliance in the implementation of this plan and design.

No.	Date	Description	By
1	2-12-2016	RIDEM Permit Wetland RFFC Submission	JAD/DRN
0	6-13-2016	RIDEM Permit Wetland Submission	JAD/DRN

Drawn By:JAD/DRN Design By:BCG

Utility Plan - 3

Citizens Bank Campus

AP 50 Lot 71 and AP 51/1 Lot 17 - Greenville Avenue
Johnston, Rhode Island

Prepared For:
Citizens Bank®
One Citizens Plaza
Providence, Rhode Island 02903

Applicant AP51/1 Lot 17:
Greater RI Baptist Temple
671 Greenville Avenue
Johnston, RI 02919

Applicant AP50 Lot 71:
DAC Properties, Inc.
100 Dorrance Street
Providence, RI 02903

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SHEET 19 OF 38

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Notes:

1. EXISTING DRIVEWAY ACCESS AND ENTRANCE TO THE GREATER RI BAPTIST TEMPLE TO BE REMOVED. CONTRACTOR TO MAINTAIN EXISTING FINISH GRADE. DISTURBED AREAS TO BE LOAMED AND SEEDED.
2. ACCESS TO GREATER RI BAPTIST TEMPLE TO BE PROVIDED VIA A NEW CHURCH CROSSING AND ROADWAY WITH A SIDEWALK. NEW CHURCH ACCESS STARTS AT THE INTERSECTION OF THE MAIN CAMPUS BOULEVARD.
3. EXISTING OWTS TO BE REMOVED AND GRINDER PUMP AND SEWER FORCE MAIN INSTALLED. SEWER SERVICE TO BE INSTALLED PER NARRAGANSETT BAY COMMISSION RULES AND REGULATIONS.
4. NEW WATER SERVICE TO BE PROVIDED TO THE CHURCH. WATER SERVICE TO BE INSTALLED PER PROVIDENCE WATER RULES AND REGULATIONS. SERVICES SHOWN SCHEMATICALLY AT THIS TIME. FINAL PLANS AND LOCATIONS TO BE DEVELOPED AND SUBMITTED TO THE UTILITY PROVIDERS PRIOR TO CONSTRUCTION.
5. EXISTING CHURCH WELL, WATER SERVICE CONNECTION, ONSITE WASTEWATER SYSTEM AND COMPONENTS TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION. SERVICE CONNECTIONS TO BE COORDINATED WITH CHURCH AND THE UTILITY PROVIDERS.

NORTH

A.P. 55/2 LOT 61
A.P. 55/2 LOT 71
A.P. 55/2 LOT 75
Greenville Avenue (Route 5)
FUTURE WATER MAIN
SMH-C1 RIM=259.42 INV OUT=253.48(NBC2)
FUTURE SMH-NBC2 STA=237+42 INV IN=253.00(C1)
8" PVC 48 LF S=1.00%
EXISTING TWIN 72" X 44" ARCH CULVERTS TO REMAIN AND NOT TO BE DISTURBED DURING CONSTRUCTION
WATER MASTER METER
EXISTING PAVEMENT TO BE REMOVED. AREA TO BE LOAMED AND SEEDED
EXISTING GAS TO REMAIN
10' MINIMUM HORIZONTAL SEPARATION
SEWER FORCE MAIN
WATER MAIN
AP 50 Lot 71
LIMIT OF PAVEMENT REMOVAL (TYP)
Church Crossing (SEE SHEET 27)
NEW ACCESS ROADWAY AND SIDEWALK FOR GREATER RHODE ISLAND BAPTIST TEMPLE
EX UTILITY POLE & OHW WIRES TO REMAIN
EXISTING FOUNDATION WALL TO BE REMOVED
SMH-C2 (PUMP) RIM=258.41
8" PVC 25 LF S=1.00%
GRAVEL FOR PARKING AREA TO BE REPLACED AS NEEDED
Greater Rhode Island Baptist Temple
Interstate 295

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED OCT 18 2016 FILE # 16-0159
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Scale: 1"=40'
0 20' 40' 80'

DiPrete Engineering
Two Stafford Court Cranston, RI 02920
tel 401-943-1000 fax 401-464-6006 www.diprete-eng.com
Boston • Providence • Newport

BRIAN C. GIROUX
No. 9341
REGISTERED PROFESSIONAL ENGINEER
CIVIL

Environmental Management
AUG 1 2016
Office of Water Resources

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The contractor is responsible for all of the means, methods, safety precautions and programs and OSHA conformance in the implementation of this plan and design.

No.	Date	Description	Drawn By	Design By
1	7-13-2016	RIDEM Formal Wetland R/FC Submission	AJO/DRN	
0	6-13-2016	RIDEM Formal Wetland Submission	AJO/DRN	

Greater RI Baptist Temple - Improvements

Citizens Bank Campus

AP 50 Lot 71 and AP 51/1 Lot 17 - Greenville Avenue
Johnston, Rhode Island

Prepared For:
Citizens Bank
One Citizens Plaza
Providence, Rhode Island 02903

Applicant AP51/1 Lot 17:
Greater RI Baptist Temple
671 Greenville Avenue
Johnston, RI 02919

Applicant AP50 Lot 71:
DAC Properties, Inc.
300 Domenic Street
Providence, RI 02903

SHEET 20 OF 38

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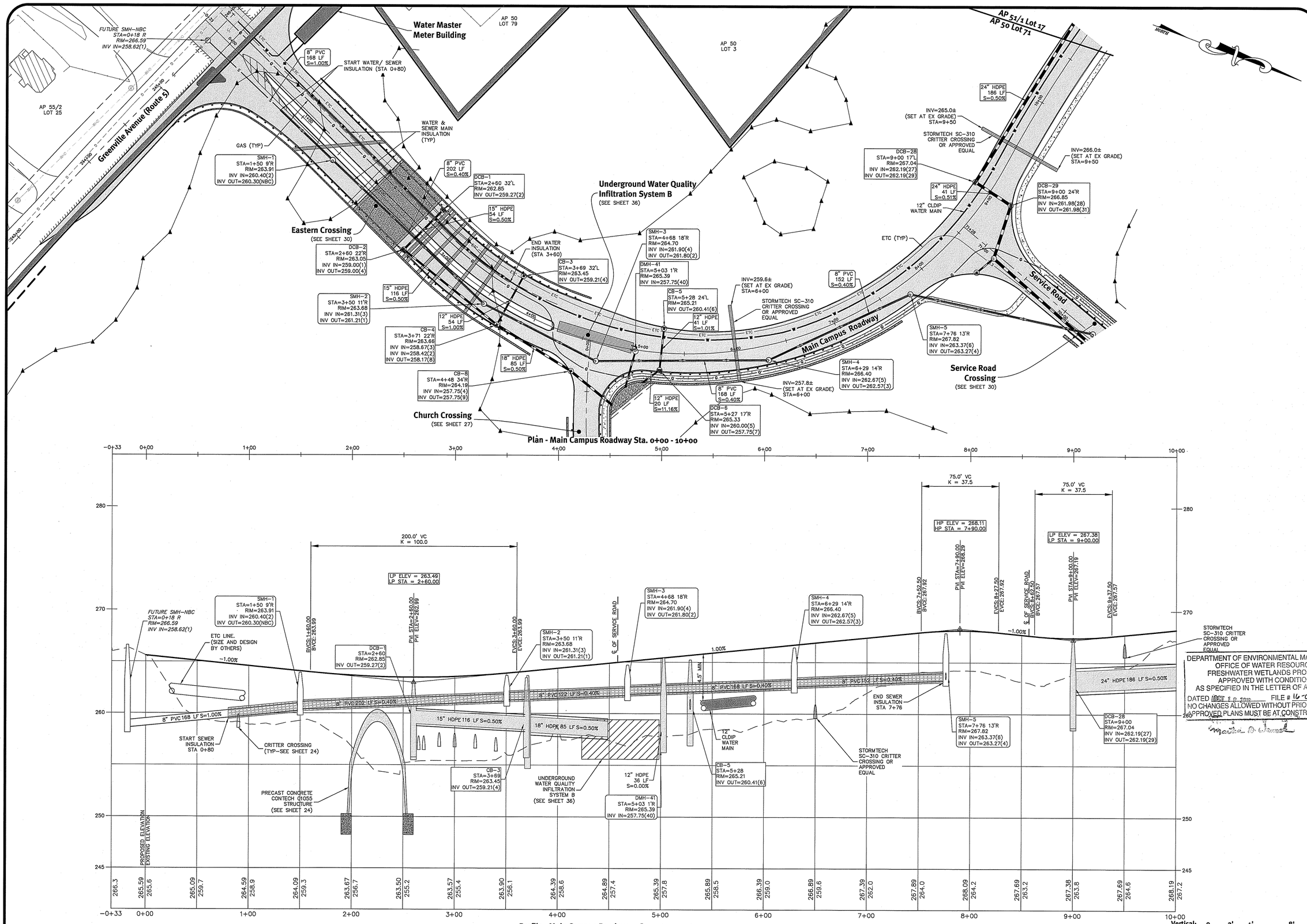

Profile - Main Campus Roadway - Sta. 0+00 - 10+00

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BRIAN C. GIROUX — No. 9341 — 7/15/2016 — REGISTERED PROFESSIONAL ENGINEER CIVIL

Environmental Management
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The contractor is responsible for all of the means, methods, safety precautions and requirements, and OSHA conformance in the implementation of this plan and design.

No.	Description	Date	By
1	RIDEM Formal Wetland Re-Submission	2/12/2016	AD/DBN
2	RIDEM Formal Wetland Submission	6/1/2016	AD/DBN

Design By:BGS
Drawn By:AD/DBN

Plan & Profile - Main Campus - Sta 0+00 - 10+00

Citizens Bank Campus

AP 50 Lot 71 and AP 51/1 Lot 17 - Greenville Avenue
Johnston, Rhode Island

Prepared For:
Citizens Bank
One Citizens Plaza
Providence, Rhode Island 02903

Applicant APp/Lot Yo:
Greater R Baptist Temple
571 Greenville Avenue
Johnston, RI 02919

Applicant APp/Lot YP:
DAC Properties, Inc.
100 Dorrance Street
Providence, RI 02903

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SHEET 21 OF 38

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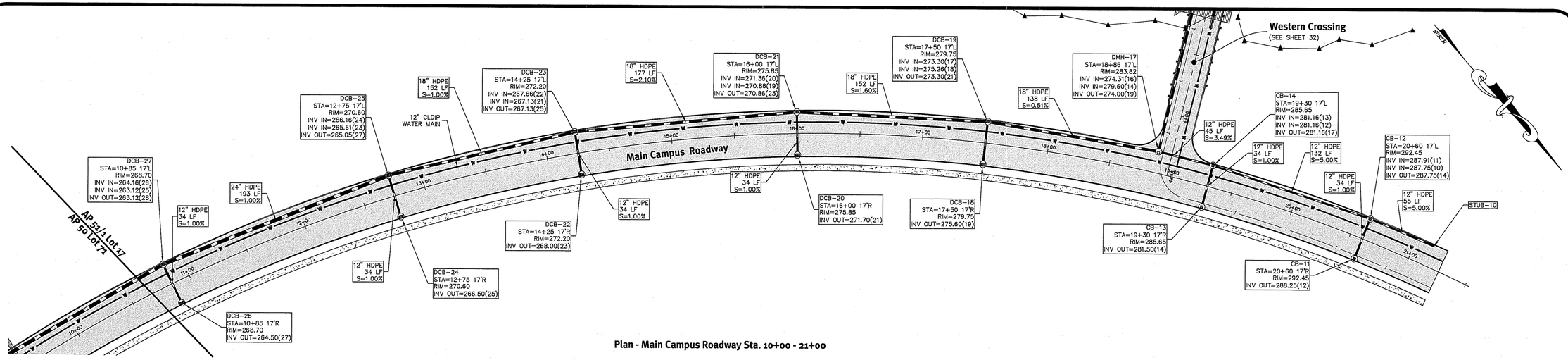
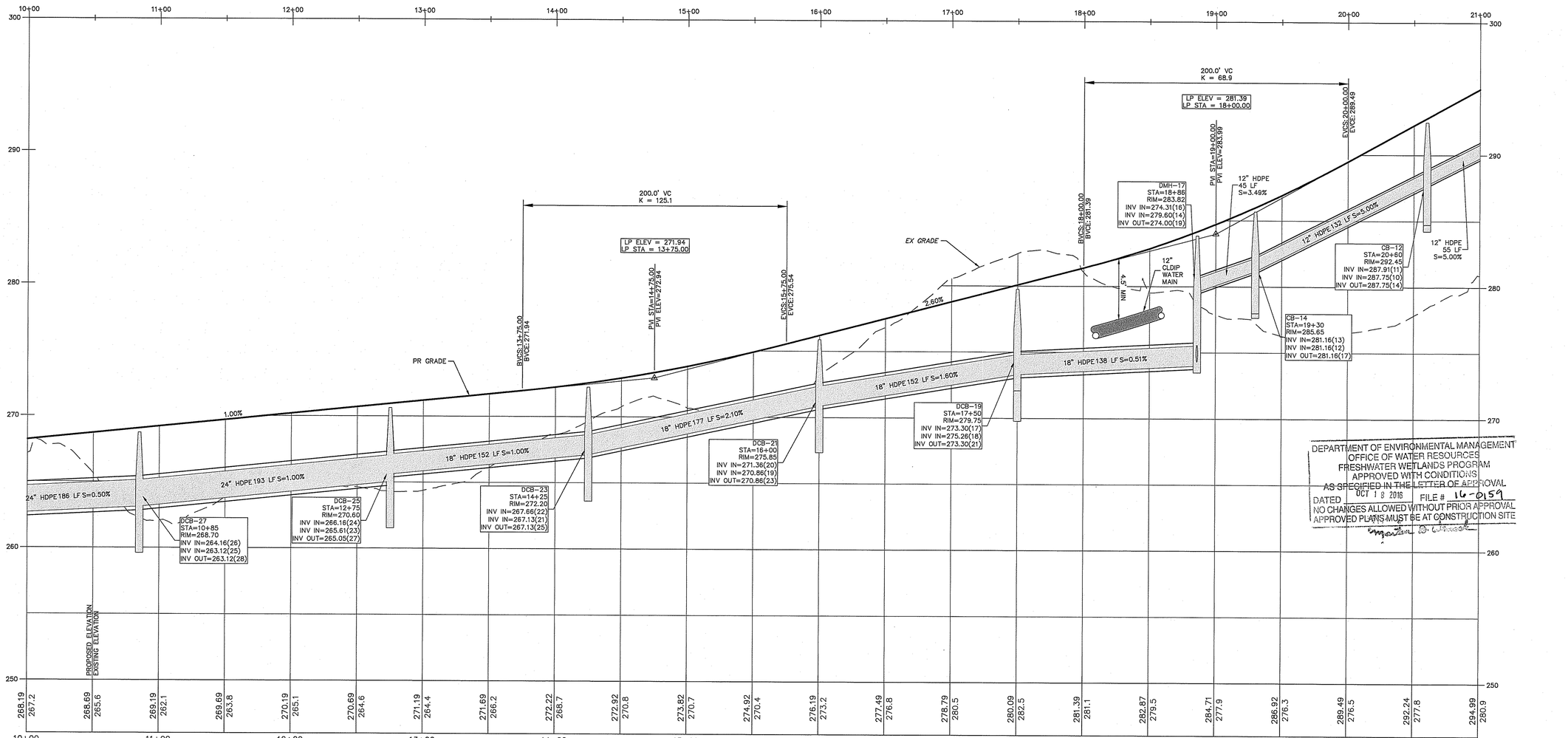


Plan - Main Campus Roadway Sta. 10+00 - 21+00



Profile - Main Campus Roadway - Sta. 10+00 - 21+00

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED OCT 18 2016 FILE # 16-0159
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
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Engineer to Oversee

DiPrete Engineering
Two Stafford Court Cranston, RI 02920
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BRIAN C. GIROUX
No. 16341
10/5/2016
REGISTERED PROFESSIONAL ENGINEER
CIVIL

Environmental Management
AUG 1 2016
Office of Water Resources

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No.	Date	Description	By
1	2-3-2016	RIDEM Comm Wetland & ACE Submission	AD/DBN
2	7-14-2016	RIDEM Comm Wetland Submission	AD/DBN

Design By:BCG
Drawn By:MD/DBN

Plan & Profile - Main Campus - Sta 10+00 - 21+00

Citizens Bank Campus

AP 50 Lot 71 and AP 54/1 Lot 17 - Greenville Avenue
Johnston, Rhode Island

Prepared For:
Citizens Bank®
One Citizens Plaza
Providence, Rhode Island 02903

Applicant AP50/1 Lot 71:
Greater RI Baptist Temple
671 Greenville Avenue
Johnston, RI 02919

Applicant AP50/1 Lot 17:
DAC Properties, Inc.
100 Dorrance Street
Providence, RI 02903

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SHEET 22 OF 38

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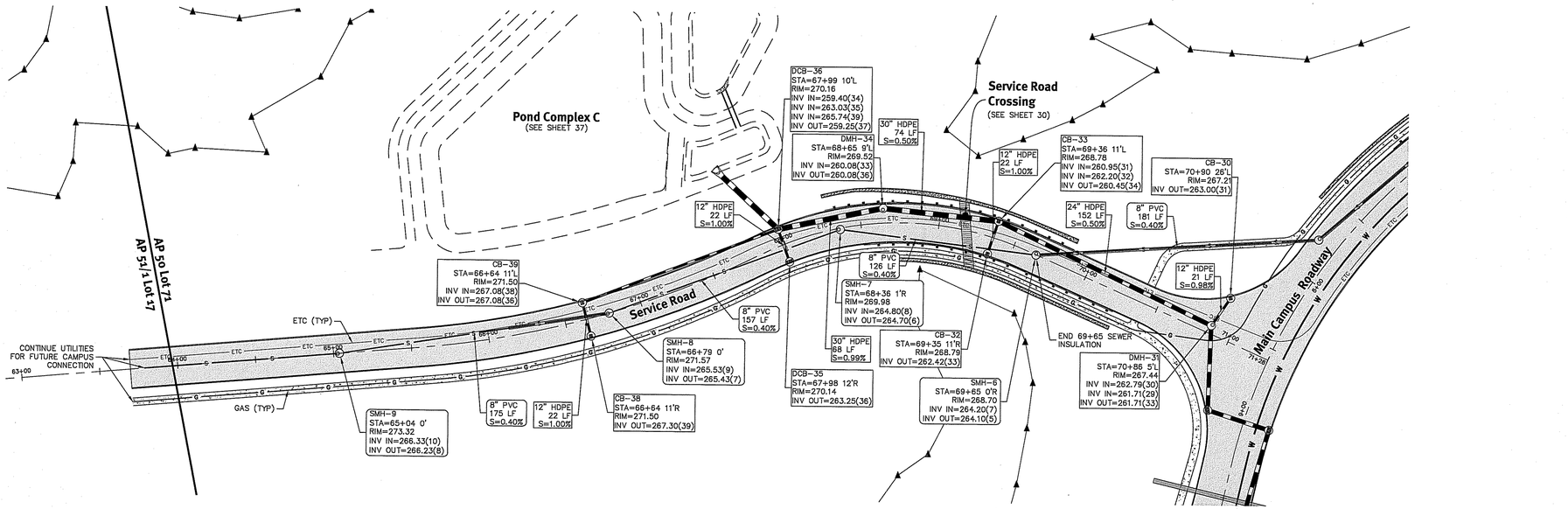
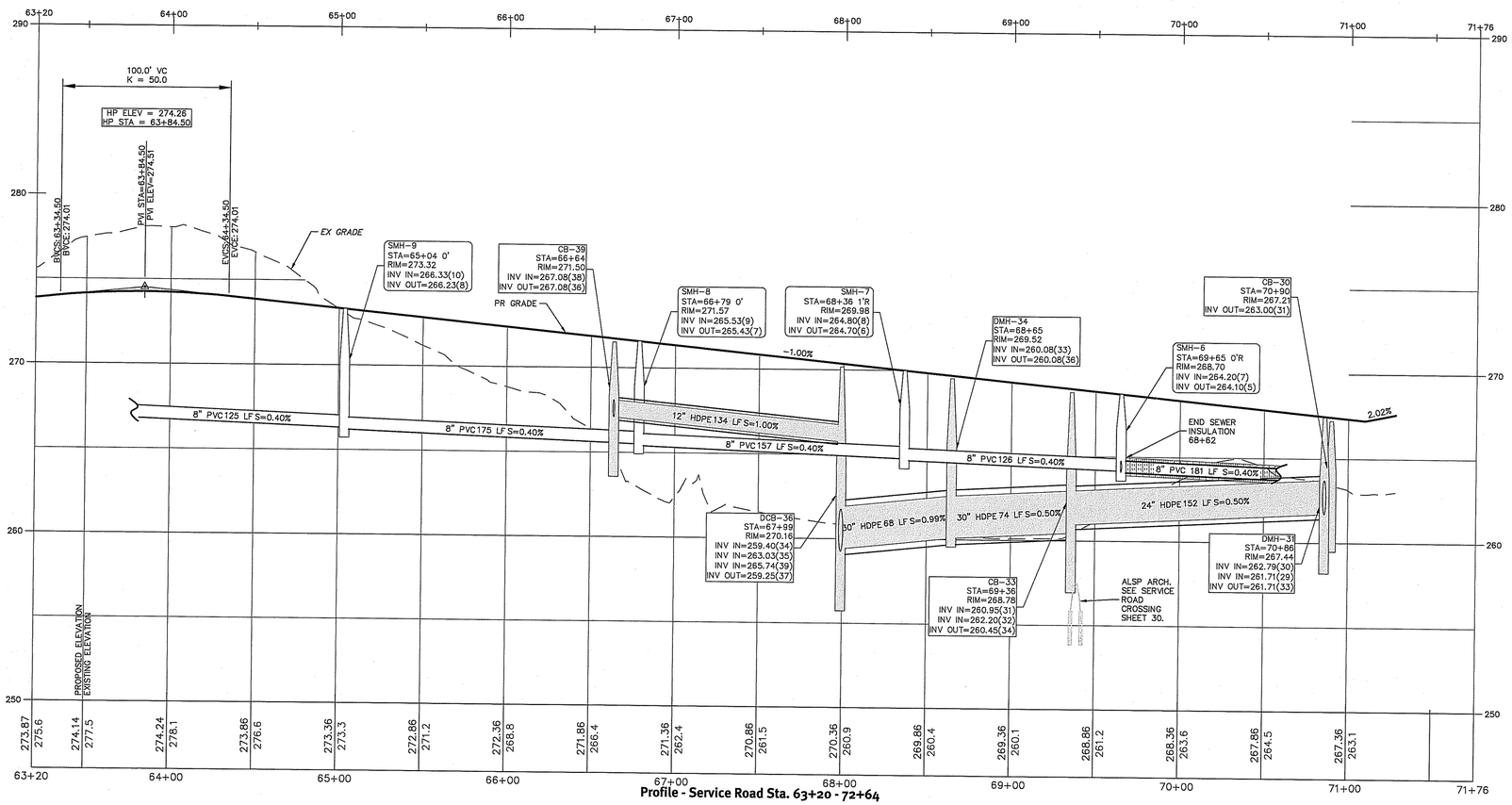


Plan - Service Road Sta. 63+20 - 72+64



Profile - Service Road Sta. 63+20 - 72+64

Vertical: 0 2' 4' 8'

Horizontal: 0 20' 40' 80'

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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BRIAN C. GIROUX
No. 9341
7/13/2016
REGISTERED PROFESSIONAL ENGINEER
CIVIL

Environmental Management
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Office of Water Resources

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No.	Date	Description	By
1	7/13/2016	RIDEM Formal Wetland Sub-mission	JAD/DRN
0	6/13/2016	RIDEM Formal Wetland Submission	JAD/DRN

Drawn By:JAD/DRN Design By:KCG

Plan & Profile - Service Road - Sta 63+20 - 71+76

Citizens Bank Campus

AP 50 Lot 71 and AP 51/1 Lot 17 - Greenville Avenue
Johnston, Rhode Island

Prepared For:
Citizens Bank®
One Citizens Plaza
Providence, Rhode Island 02903

Applicant APs/Lots:
Greater RI Baptist Temple
671 Greenville Avenue
Johnston, RI 02919

Applicant APs/Lots:
DAC Properties, Inc.
300 Dorrance Street
Providence, RI 02903

SHEET 23 OF 38

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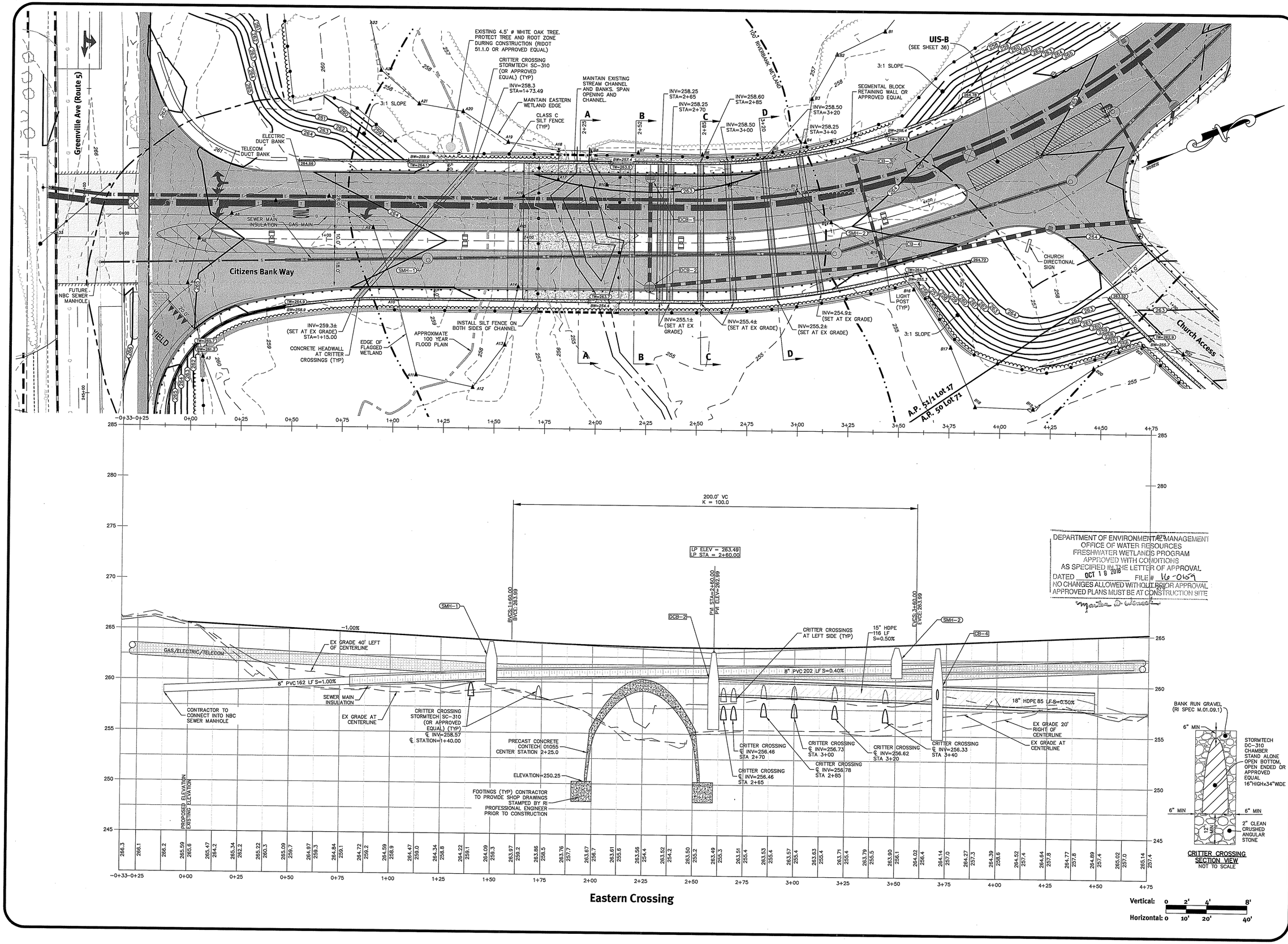

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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DATED OCT 18 2016 FILE # 16-0659
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CRITTER CROSSING SECTION VIEW
NOT TO SCALE

Vertical: 0 2' 4' 8'
Horizontal: 0 10' 20' 40'

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BRIAN C. GIROUX
No. 9341
REGISTERED PROFESSIONAL ENGINEER
CIVIL

Environmental Management
OCT 18 2016
Office of Water Resources

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No.	Date	Description	By
2	Oct-2016	RIDEM Formal Wetland Submission Update	ADV/DRN
1	2-13-2015	RIDEM Formal Wetland RFI/C Submission	ADV/DRN
0	12-31-2014	RIDEM Formal Wetland Submission	ADV/DRN

Drawn By:ADV/DRN | Design By:CG

Eastern Crossing - 1
Citizens Bank Campus
AP 50 Lot 71 and AP 51/1 Lot 17 - Greenville Avenue
Johnston, Rhode Island

Prepared for:
Citizens Bank
One Citizens Plaza
Providence, Rhode Island 02903

Applicant AP50/71 Lot 71:
Greater RI Baptist Temple
671 Greenville Avenue
Johnston, RI 02919

Applicant AP51/1 Lot 17:
Citizens Bank, National Association
One Citizens Plaza
Providence, RI 02903

SHEET 24 OF 38

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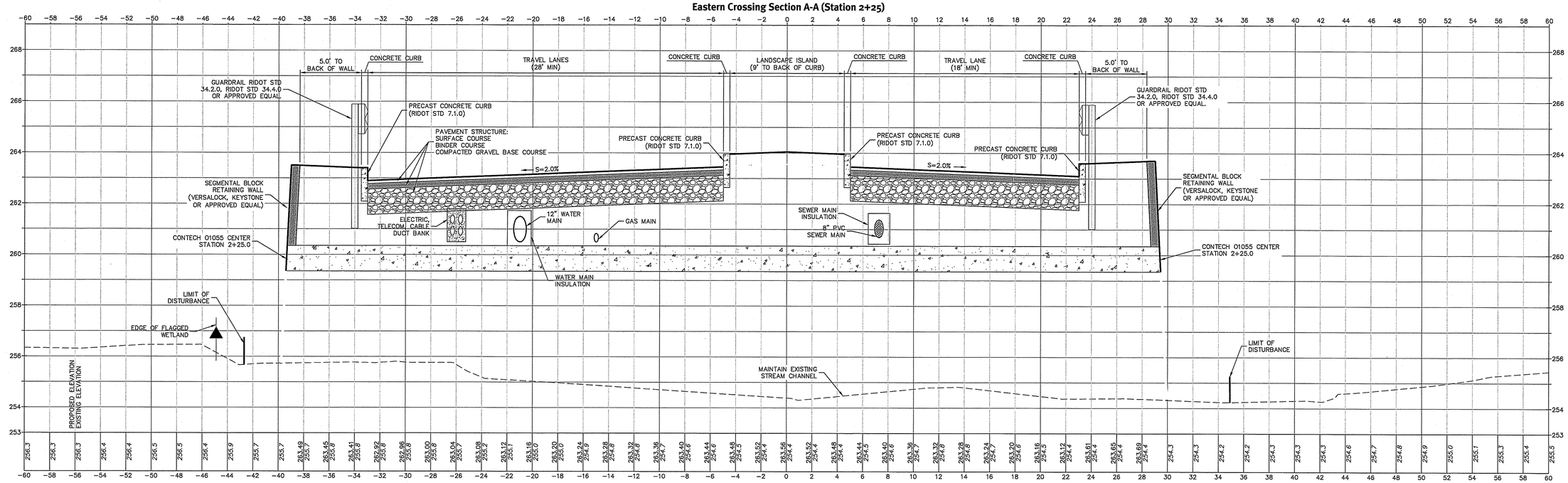
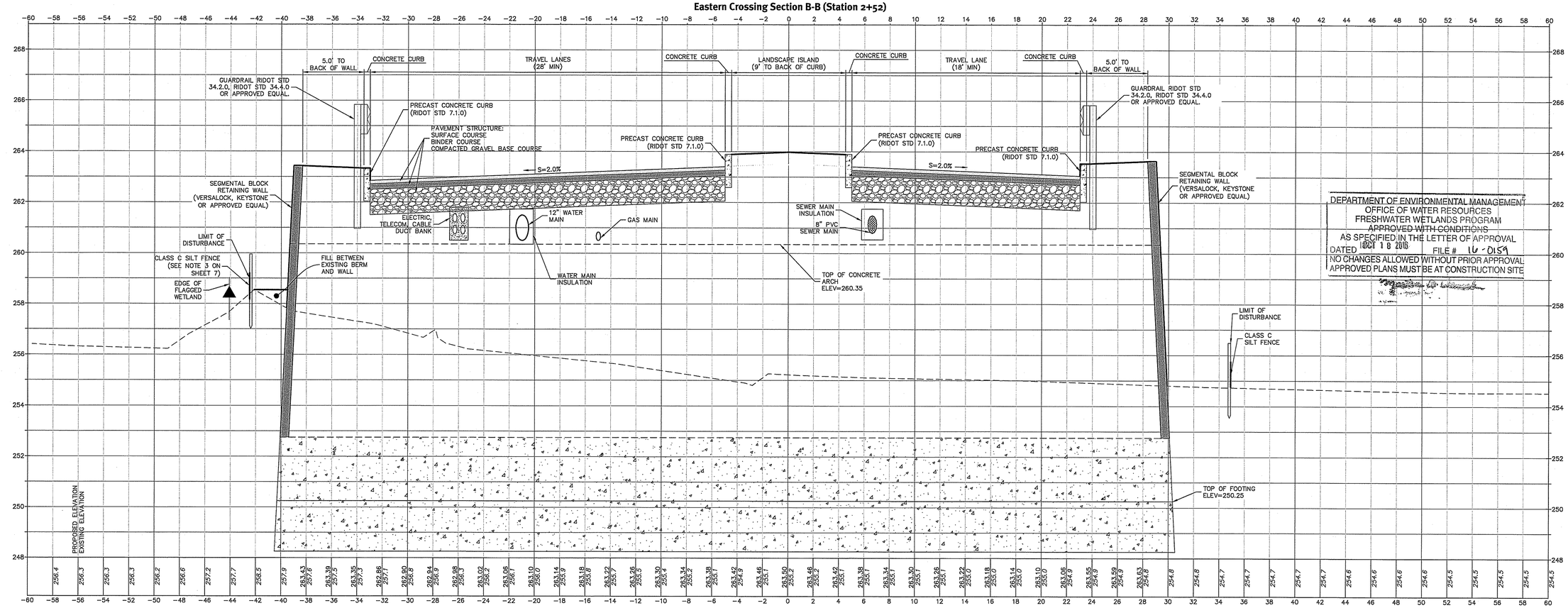
z:\detail\projects\2367-001 greenville gln\autocad drawings\2367-001-wtlp-wetland crossing-church-formal.dwg Plotted: 10/18/2016

Eastern Crossing Section A-A (Station 2+25)



Eastern Crossing Section B-B (Station 2+52)



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED OCT 18 2016 FILE # 16-0159
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Vertical: 0 1' 2' 4'
Horizontal: 0 2' 4' 8'

DiPrete Engineering
Two Stafford Court Cranston, RI 02920
tel 401-943-1000 fax 401-464-6006 www.diprete-eng.com
Boston • Providence • Newport

BRIAN C GIROUX
NO. 9341
7/15/2016
REGISTERED PROFESSIONAL ENGINEER
CIVIL

Environmental Management
AUG 1 2016
Office of Water Resources

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The contractor is responsible for all of the means, methods, safety precautions and requirements and OSHA conformance in the implementation of this plan and design.

No.	Date	Description	By:
1	2-12-2016	RIDEM Formal Wetland REC Submission	JAD/DRN
0	6-13-2016	RIDEM Formal Wetland Submission	JAD/DRN

Drawn By:JAD/DRN Design By:RCG

Eastern Crossing - 2

Citizens Bank Campus

AP 50 Lot 73 and AP 51/1 Lot 17 - Greenville Avenue
Johnston, Rhode Island

Prepared for: Citizens Bank®
One Citizens Plaza
Providence, Rhode Island 02903

Applicant APpn/Lot 73: Greater Ml Baptist Temple 1300 Greenville Avenue Johnston, RI 02919

Applicant APpn/Lot 17: DPC Properties, Inc. 100 Dorrance Street Providence, RI 02903

SHEET 25 OF 38

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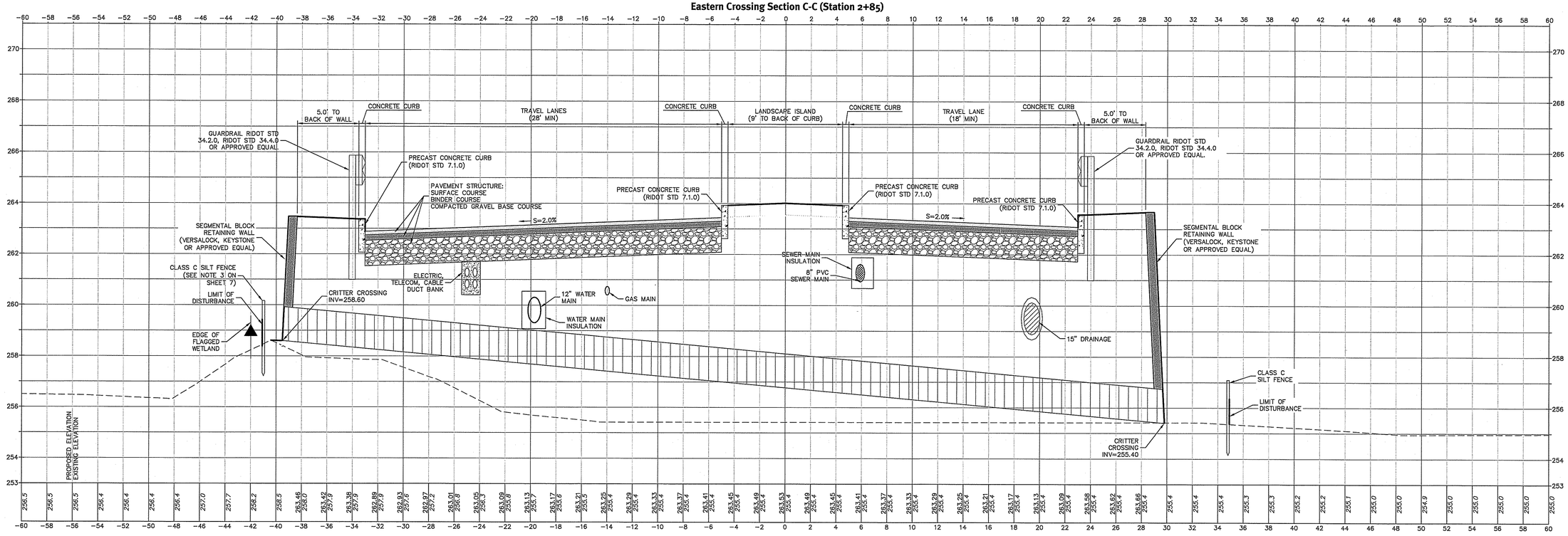
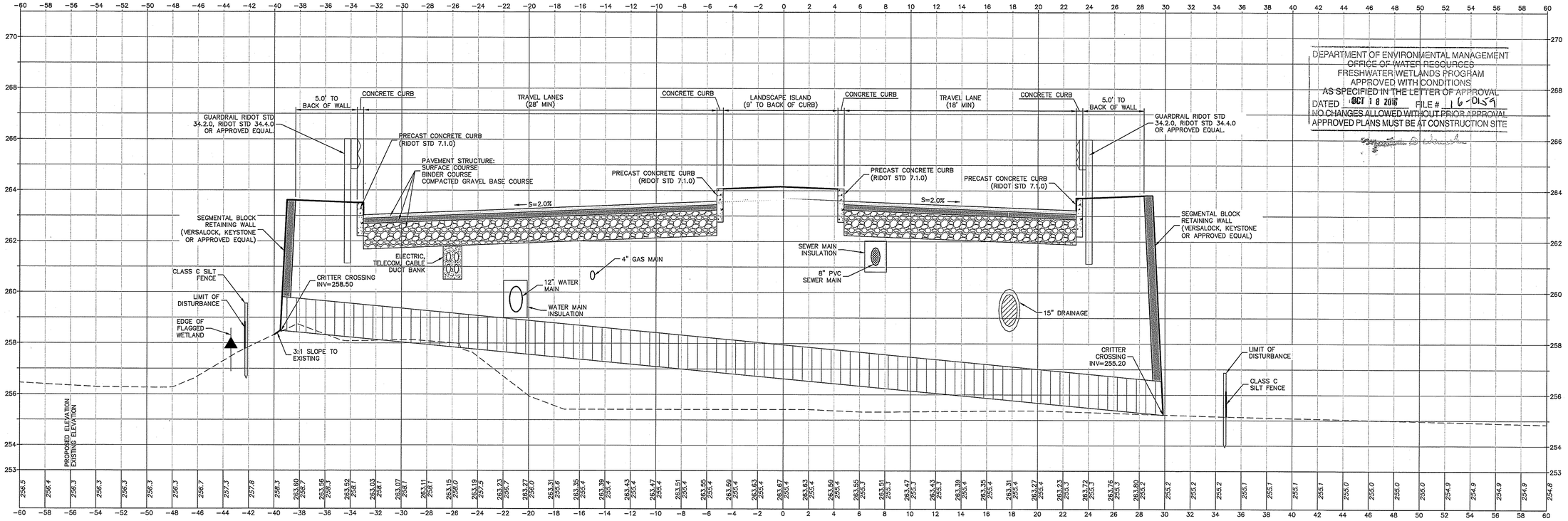
Eastern Crossing Section C-C (Station 2+85)



Eastern Crossing Section D-D (Station 3+20)



Vertical: 0 1' 2' 4'

Horizontal: 0 2' 4' 8'

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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No. 9341
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CIVIL

Environmental Management
AUG 1 2016
Office of Water Resources

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No.	Date	Description	By:
1	7-20-2016	RIDEM Forms Wetland ACEC Submission	MD/DBN
0	6-13-2016	RIDEM Forms Wetland Submissions	MD/DBN

Drawn By:MD/DBN | Design By:RCG

Eastern Crossing - 3
Citizens Bank Campus

AP 50 Lot 71 and AP 51/1 Lot 17 - Greenville Avenue
Johnston, Rhode Island

Prepared For:
Citizens Bank®
One Citizens Plaza
Providence, Rhode Island 02903

Applicant AP50/1 Lot 71:
Greater RI Baptist Temple
671 Greenville Avenue
Johnston, RI 02919

Applicant AP50/1 Lot 17:
DAC Properties, Inc.
100 Dorrance Street
Providence, RI 02903

SHEET 26 OF 38

DE Job Nos: 2367-001

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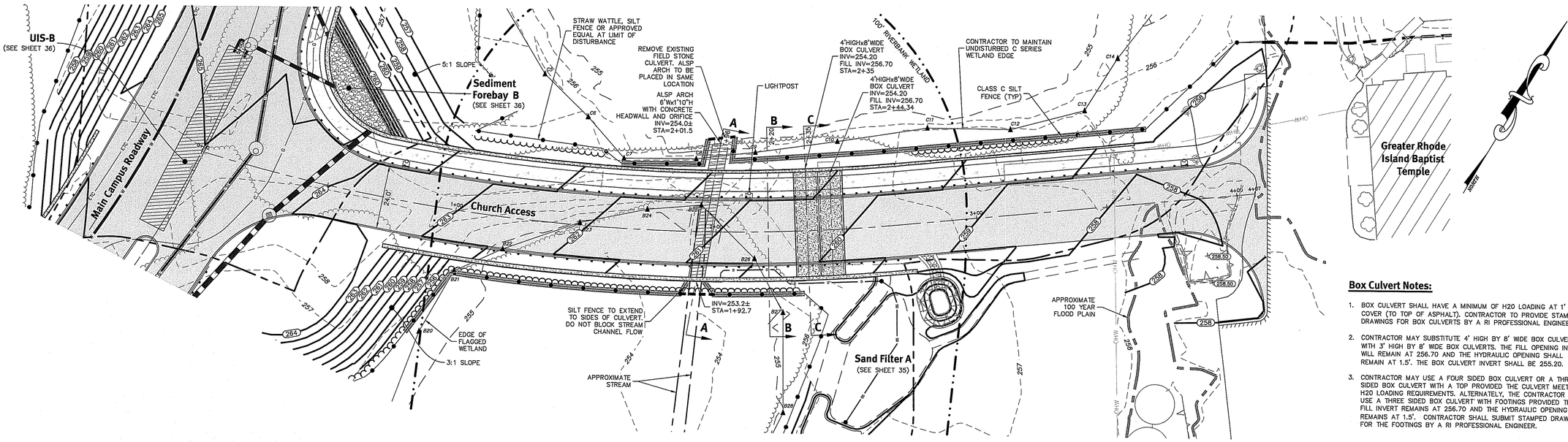
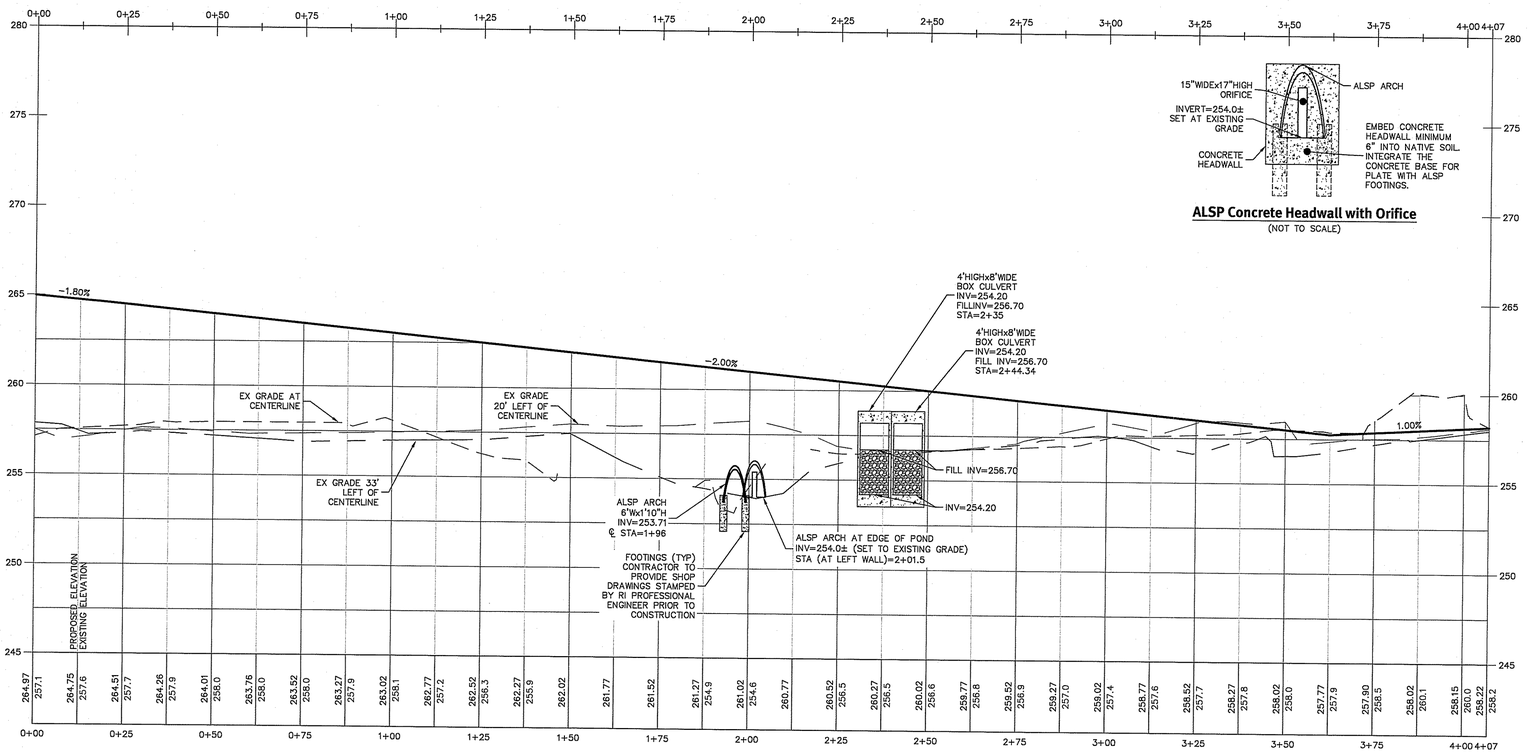


Box Culvert Notes:

1. BOX CULVERT SHALL HAVE A MINIMUM OF H20 LOADING AT 1' OF COVER (TO TOP OF ASPHALT). CONTRACTOR TO PROVIDE STAMPED DRAWINGS FOR BOX CULVERTS BY A RI PROFESSIONAL ENGINEER.
2. CONTRACTOR MAY SUBSTITUTE 4' HIGH BY 8' WIDE BOX CULVERTS WITH 3' HIGH BY 8' WIDE BOX CULVERTS. THE FILL OPENING INVERT WILL REMAIN AT 256.70 AND THE HYDRAULIC OPENING SHALL REMAIN AT 1.5'. THE BOX CULVERT INVERT SHALL BE 255.20.
3. CONTRACTOR MAY USE A FOUR SIDED BOX CULVERT OR A THREE SIDED BOX CULVERT WITH A TOP PROVIDED THE CULVERT MEETS H20 LOADING REQUIREMENTS. ALTERNATELY, THE CONTRACTOR MAY USE A THREE SIDED BOX CULVERT WITH FOOTINGS PROVIDED THE FILL INVERT REMAINS AT 256.70 AND THE HYDRAULIC OPENING REMAINS AT 1.5'. CONTRACTOR SHALL SUBMIT STAMPED DRAWINGS FOR THE FOOTINGS BY A RI PROFESSIONAL ENGINEER.



Church Crossing

ALSP Concrete Headwall with Orifice
(NOT TO SCALE)

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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BRIAN C. GIROUX
No. 9341
REGISTERED PROFESSIONAL ENGINEER
CIVIL

Environmental Management
AUG 1 2016
Office of Water Resources

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No.	Date	Description	By:
1	2-3-2016	RIDEM Formal Wetland RFC Submission	MD/DBN
0	6-13-2016	RIDEM Formal Wetland Submission	MD/DBN

Drawn By:MD/DBN Design By:BCG

Church Crossing - 1
Citizens Bank Campus

AP 50 Lot 71 and AP 51 Lot 17 - Greenville Avenue
Johnston, Rhode Island

Prepared for: Citizens Bank
One Citizens Plaza
Providence, Rhode Island 02903

Applicant AP50 Lot 71:
Greater RI Baptist Temple
1845 Greenville Avenue
Johnston, RI 02919

Applicant AP51 Lot 17:
DAC Properties, Inc.
100 Dorrance Street
Providence, RI 02903

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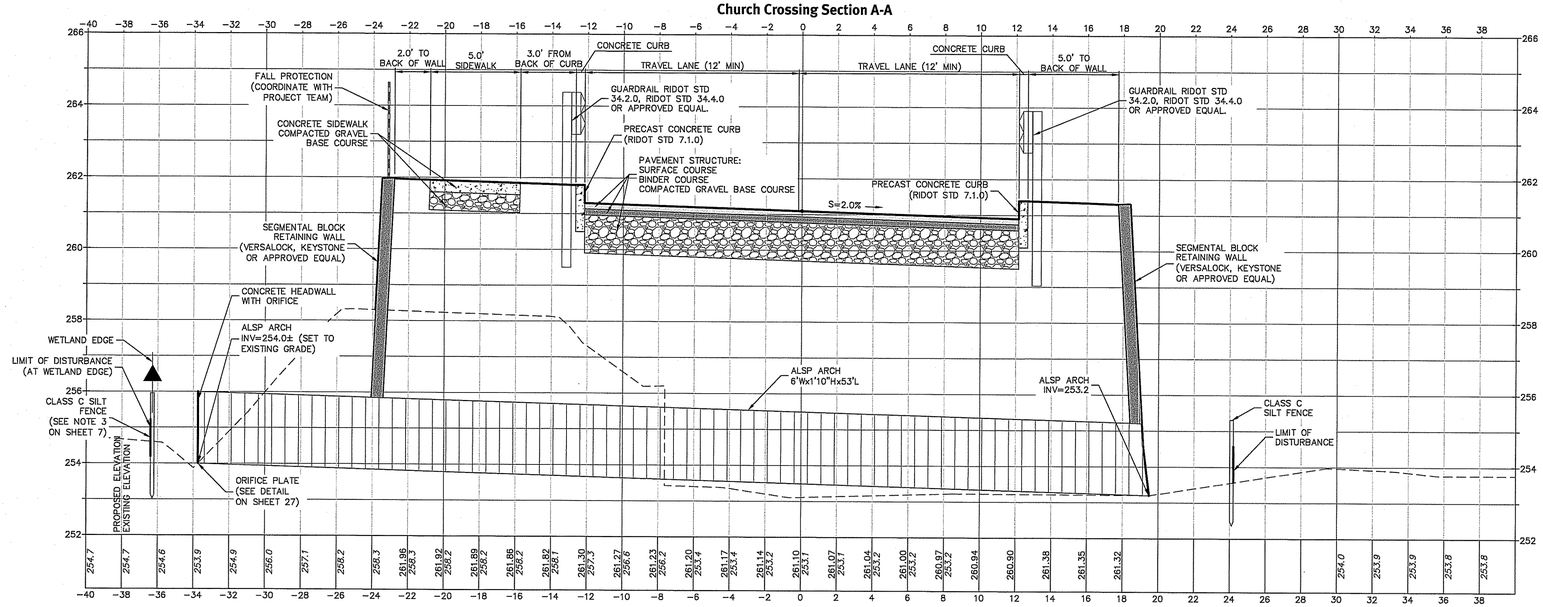
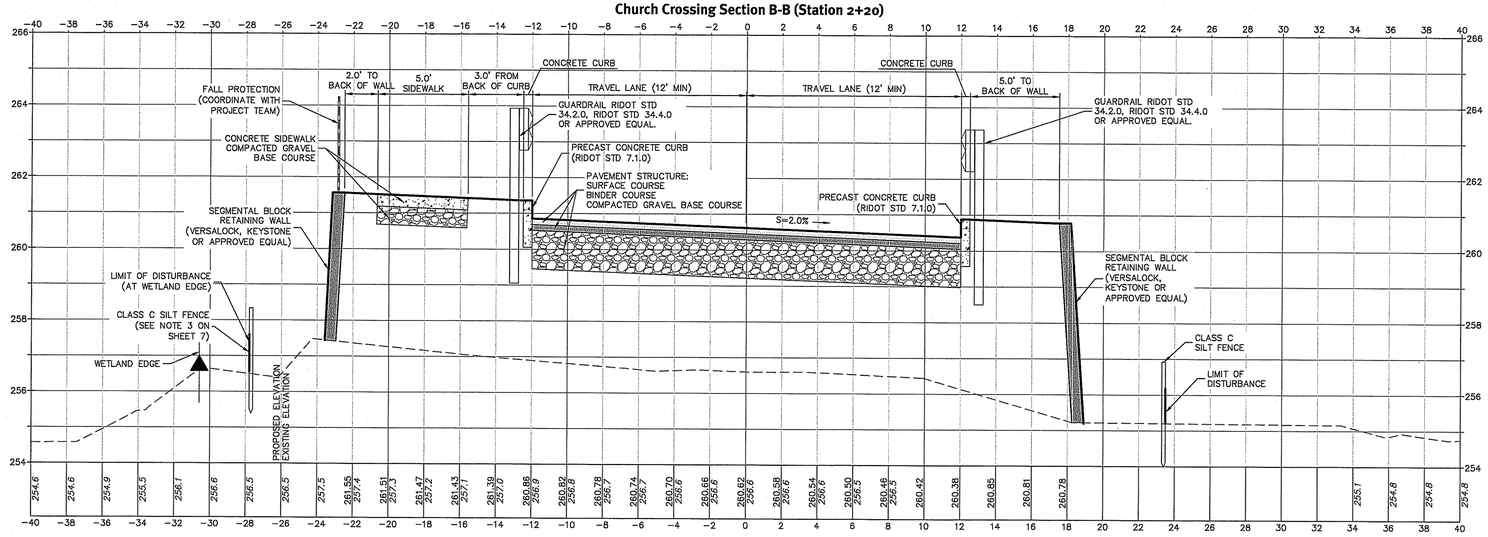
Church Crossing Section A-A



Church Crossing Section B-B (Station 2+20)



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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No.	Date	Description	Design By:BJG
1	2-12-2016	RIDEM Formal Wetland BFC Submission	JAD/DRN
0	6-13-2016	RIDEM Formal Wetland Submission	JAD/DRN
			By:
		Drawn By:JAD/DRN	

Church Crossing - 2
Citizens Bank Campus

AP 50 Lot 71 and AP 51/1 Lot 17 - Greenville Avenue
Johnston, Rhode Island

Prepared For:
Citizens Bank
One Citizens Plaza
Providence, Rhode Island 02903

Applicant AP50/1 Lot 71:
Greater RI Baptist Temple
671 Greenville Avenue
Johnston, RI 02919

Applicant AP50/1 Lot 17:
DAC Properties, Inc.
300 Dorrance Street
Providence, RI 02903

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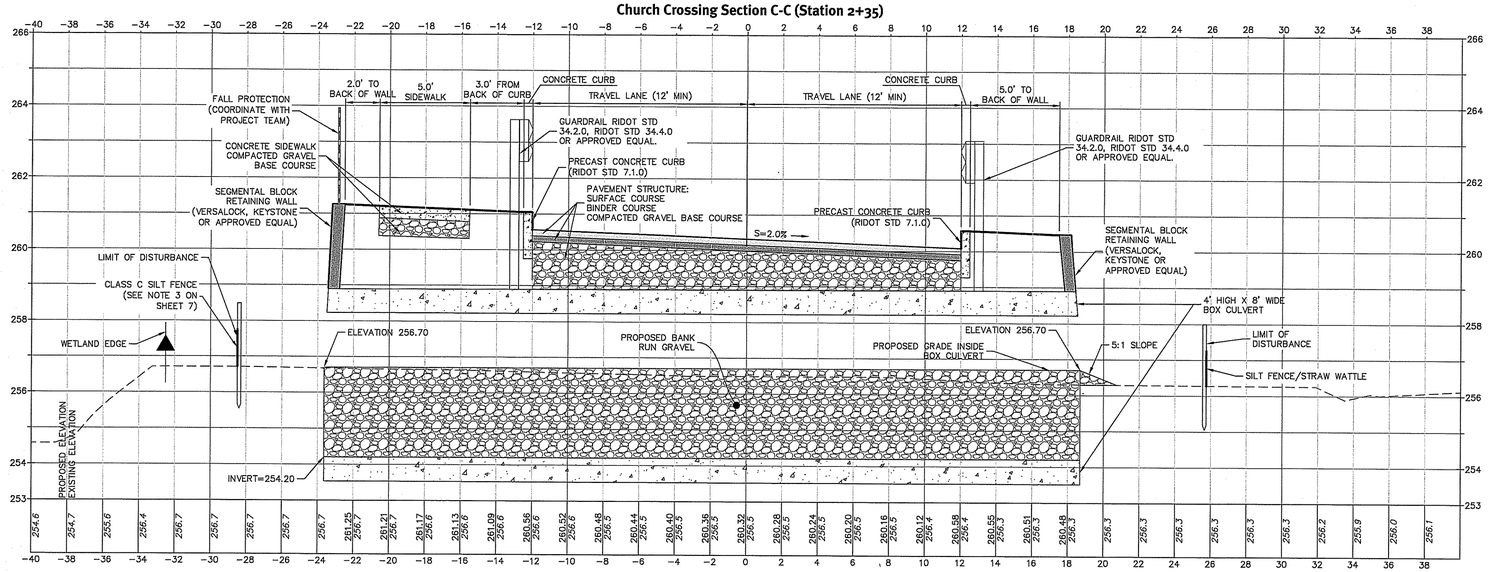
Church Crossing Section C-C (Station 2+35)



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BRIAN C. GIROUX
NEW HAMPSHIRE
9341
REGISTERED PROFESSIONAL ENGINEER
CIVIL

Environmental Management
AUG 1 2016
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No.	Date	Description	By:
1	7-13-2016	RIDEM Formal Wetland ReSubmission	AJO/DNH
0	6-13-2016	RIDEM Formal Wetland Submission	AJO/DNH

Drawn By:AJO/DNH Design By:ACG

Church Crossing - 3
Citizens Bank Campus
AP 50 Lot 71 and AP 51/1 Lot 17 - Greenville Avenue
Johnston, Rhode Island

Prepared for:
Citizens Bank

Applicant APs1/1 Lot 17:
Greater RI Baptist Temple
671 Greenville Avenue
Johnston, RI 02919

Applicant APs1/1 Lot 17:
DAC Properties, Inc.
100 Dorrance Street
Providence, RI 02903

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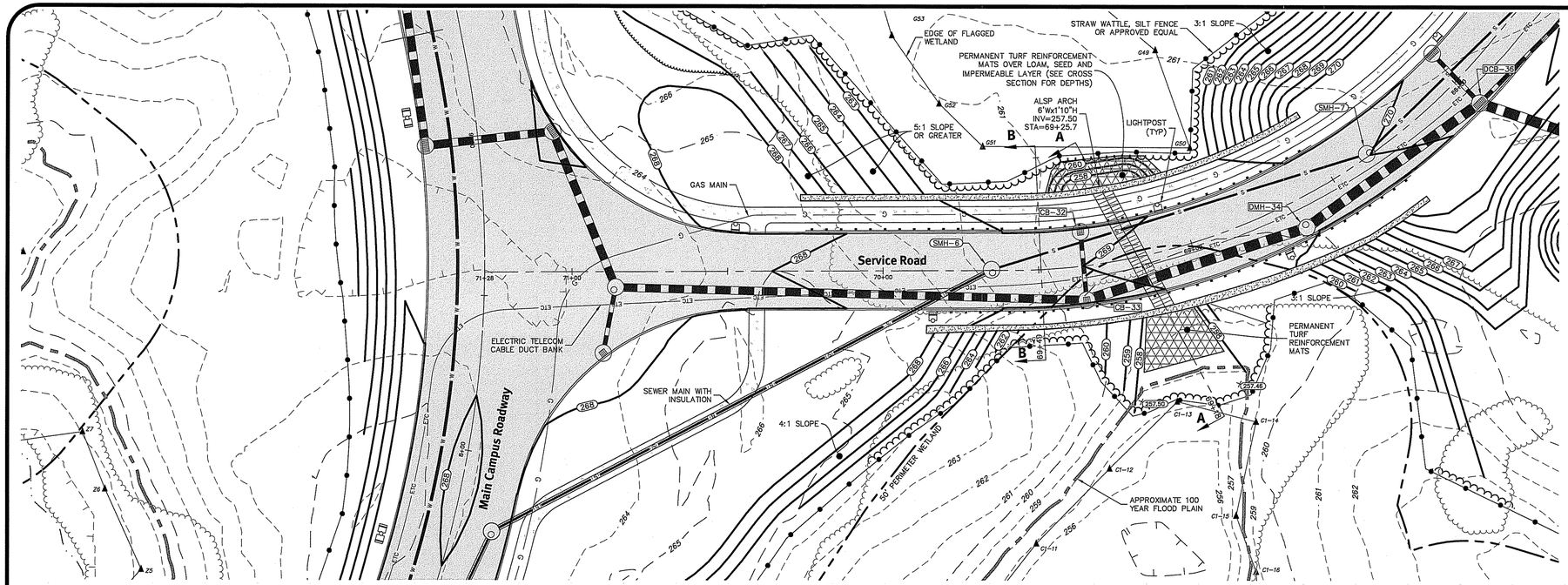

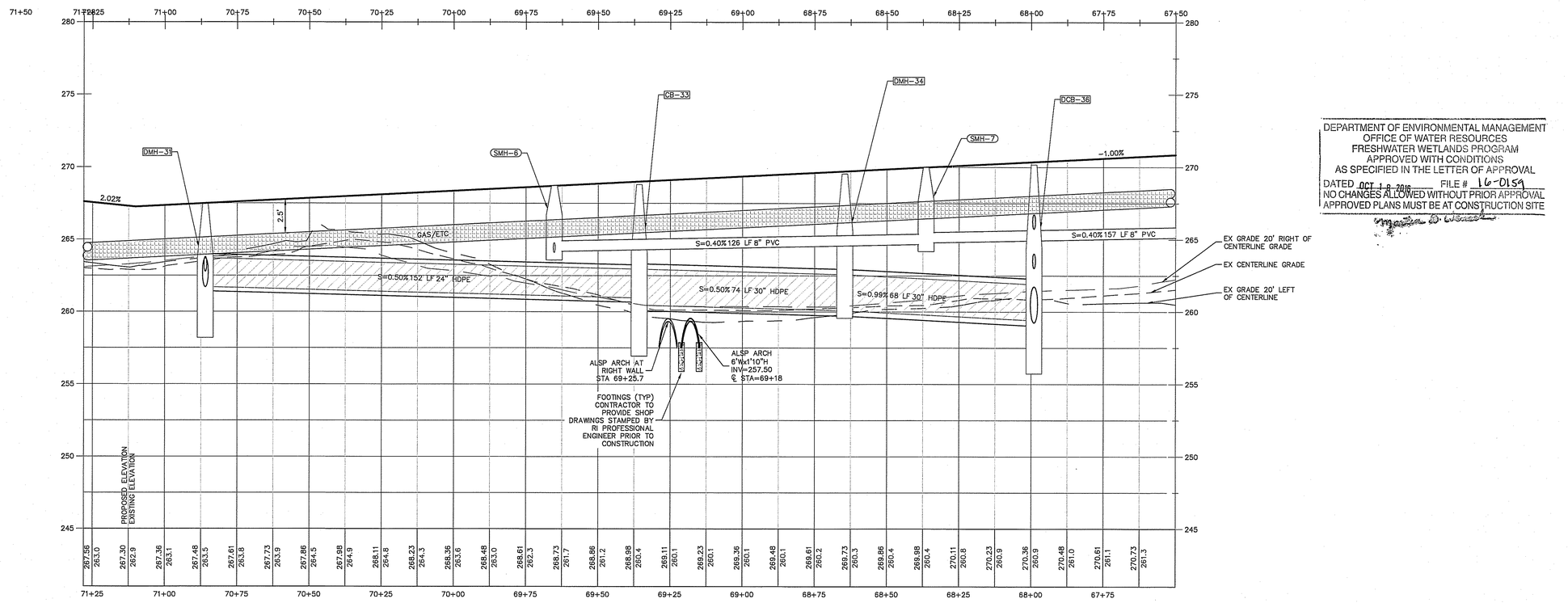

Service Road Crossing

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
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Vertical: 0 2' 4' 8'
Horizontal: 0 10' 20' 40'

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BRIAN C. GIROUX
No. 9341
REGISTERED PROFESSIONAL ENGINEER
CIVIL
8/15/2016

Environmental Management
AUG 1 2016
Office of Water Resources

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No.	Date	Description	By
1	7/13/2016	RIDEM Formal Wetland RFC Submission	MJ/DBN
0	6/13/2016	RIDEM Formal Wetland Submission	DD/DBN
		Design By:BG	
		Drawn By:MJ/DBN	

Service Road Crossing - 1

Citizens Bank Campus

AP 50 Lot 71 and AP 51/1 Lot 17 - Greenville Avenue
Johnston, Rhode Island

Prepared For:
Citizens Bank®
One Citizens Plaza
Providence, Rhode Island 02903

Applicant AP50 Lot 71:
Greater RI Baptist Temple
671 Greenville Avenue
Johnston, RI 02919

Applicant AP51/1 Lot 17:
DAC Properties, Inc.
200 Dorrance Street
Providence, RI 02903

SHEET 30 OF 38

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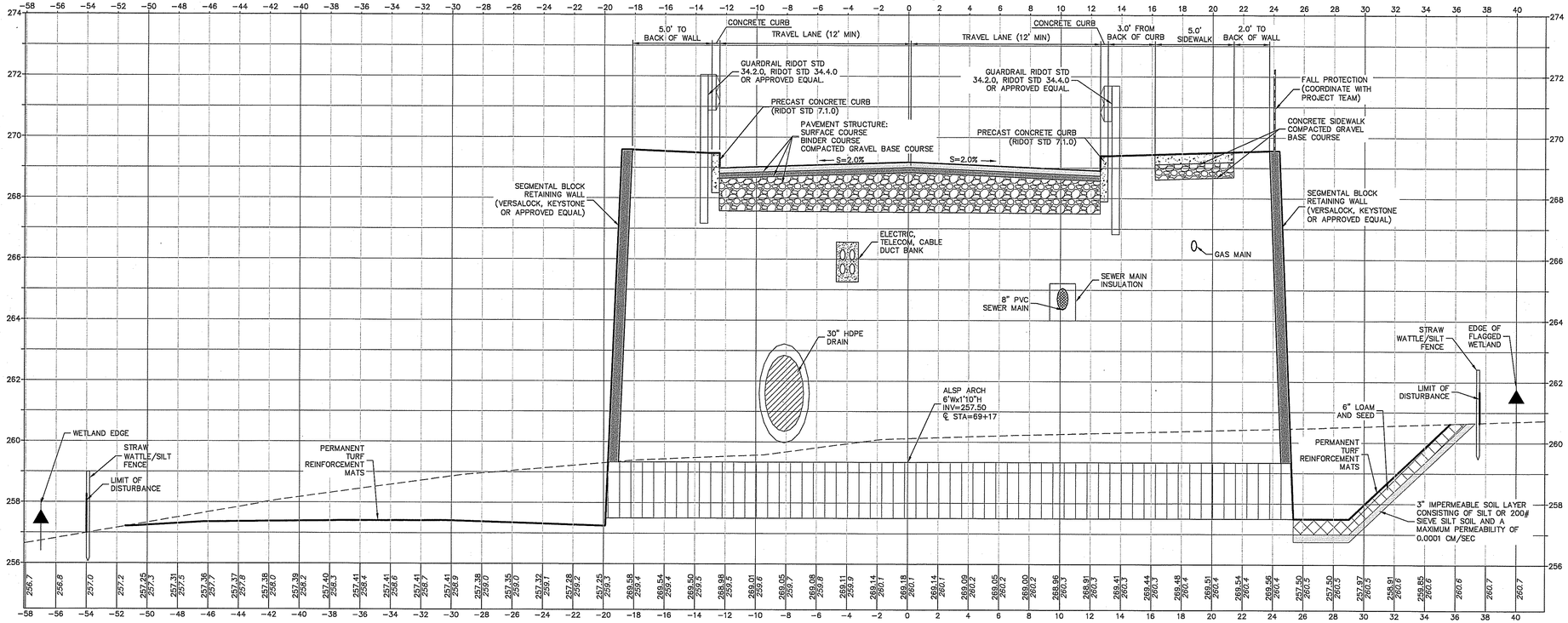
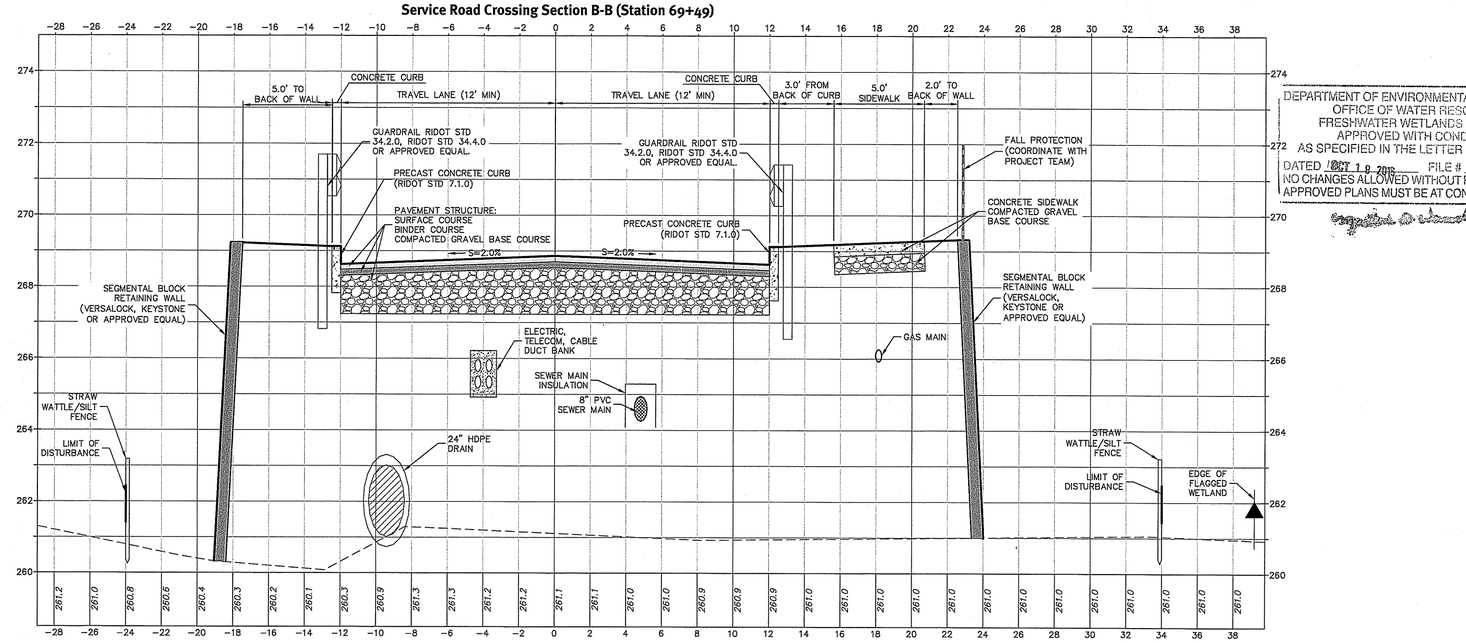
Service Road Crossing Section A-A



Service Road Crossing Section B-B (Station 69+49)



Vertical: 0 1' 2' 4'

Horizontal: 0 2' 4' 8'

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BRIAN C. GIROUX
No. 9341
4/15/2016
REGISTERED PROFESSIONAL ENGINEER
CIVIL

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AUG 1 2016
Office of Water Resources

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No.	Date	Description	By:
1	2-12-2016	RIDEM Formal Wetland Apln. Submission	JAD/DRN
0	6-13-2016	RIDEM Formal Wetland Submission	JAD/DRN

Drawn By:JAD/DRN Design By:BCG

Service Road Crossing - 2

Citizens Bank Campus

AP 50 Lot 71 and AP 51/1 Lot 17 - Greenville Avenue
Johnston, Rhode Island

Prepared for:
Citizens Bank®
One Citizens Plaza
Providences, Rhode Island 02903

Applicant AP50 Lot 71:
Greater RI Baptist Temple
671 Greenville Avenue
Johnston, RI 02919

Applicant AP51/1 Lot 17:
DAC Properties, Inc.
100 Dorrance Street
Providence, RI 02903

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Western Crossing

Vertical: 0 2' 4' 8'
Horizontal: 0 10' 20' 40'

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Martha D. Worrad

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No.	Date	Description	By:
1	5-12-2016	RIDEM Formal Wetland Apl's Submission	JAD/DBN
0	4-13-2016	RIDEM Formal Wetland Submission	JAD/DBN
			Design By:BCG
			Drawn By:JAD/DBN

DiPrete Engineering
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No. 9341
5/13/2016
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Environmental Management
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Office of Water Resources

Western Crossing - 1

Citizens Bank Campus

AP 50 Lot 71 and AP 51/1 Lot 17 - Greenville Avenue
Johnston, Rhode Island

Prepared for:
Citizens Bank®
One Citizens Plaza
Providence, Rhode Island 02903

Applicant AP50/Lot 71:
Greater RI Baptist Temple
671 Greenville Avenue
Johnston, RI 02919

Applicant AP51/Lot 17:
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100 Dorrance Street
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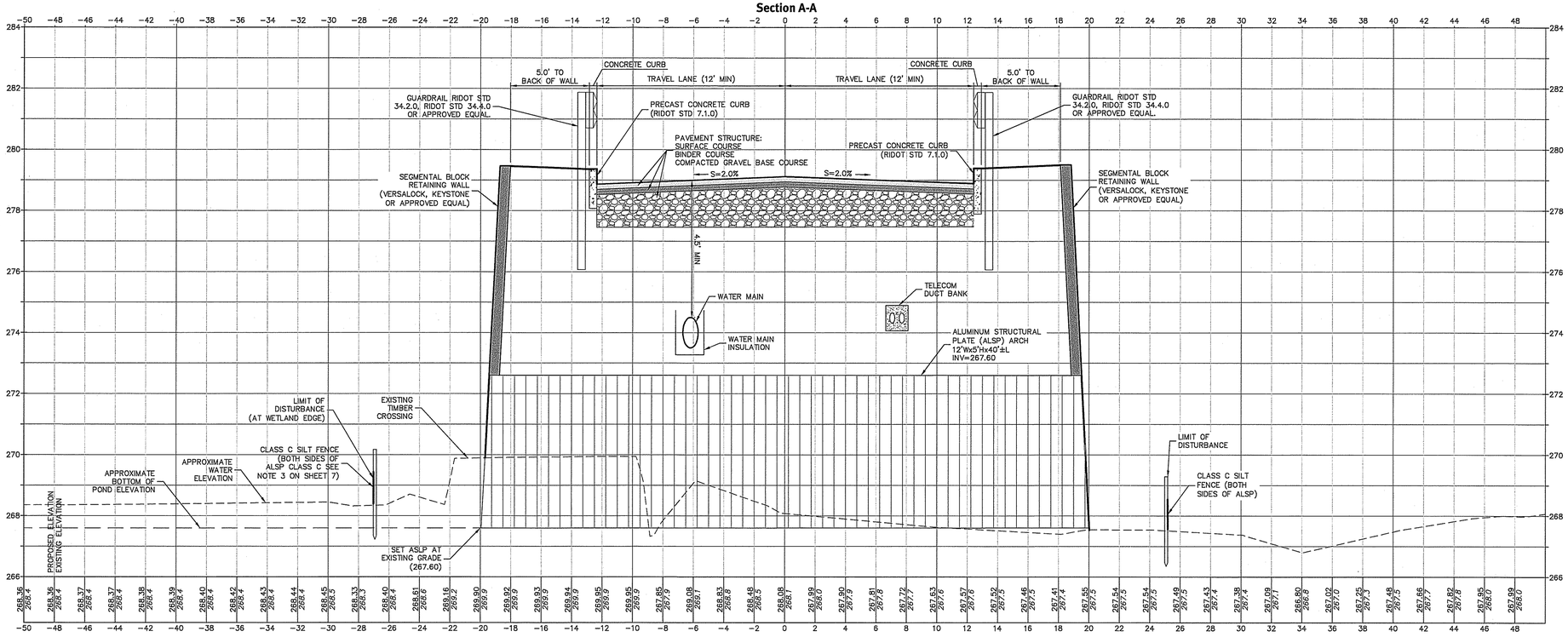
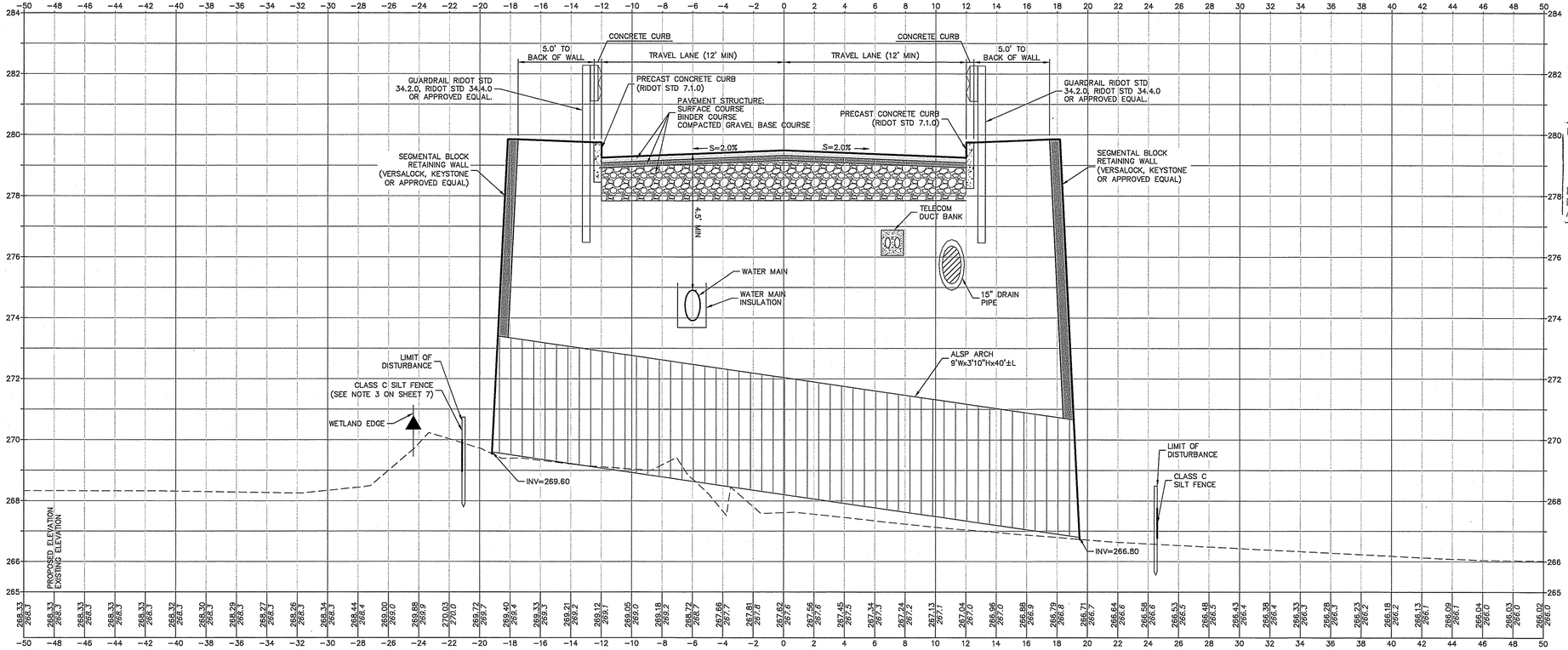
Section A-A



Station Section B-B 2+70



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No.	Date	Description	By:
0	2-23-2016	RIDEM Formal Wetland SEC Submission	JMD/DBN
1	7-15-2016	RIDEM Formal Wetland Submission	JMD/DBN

Drawn By:MD/DBN Design By:BCG

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BRIAN C. GIROUX
No. 9341
REGISTERED PROFESSIONAL ENGINEER
CIVIL

Environmental Management
AUG 1 2016
Office of Water Resources

Western Crossing - 2
Citizens Bank Campus

AP 50 Lot 71 and AP 51/1 Lot 17 - Greenville Avenue
Johnston, Rhode Island

Prepared For: Citizens Bank®
One Citizens Plaza
Providence, Rhode Island 02903

Applicant AP50 Lot 71: Greater RI Baptist Temple 671 Greenville Avenue Johnston, RI 02919

Applicant AP51/1 Lot 17: DAC Properties, Inc. 100 Dorrance Street Providence, RI 02903

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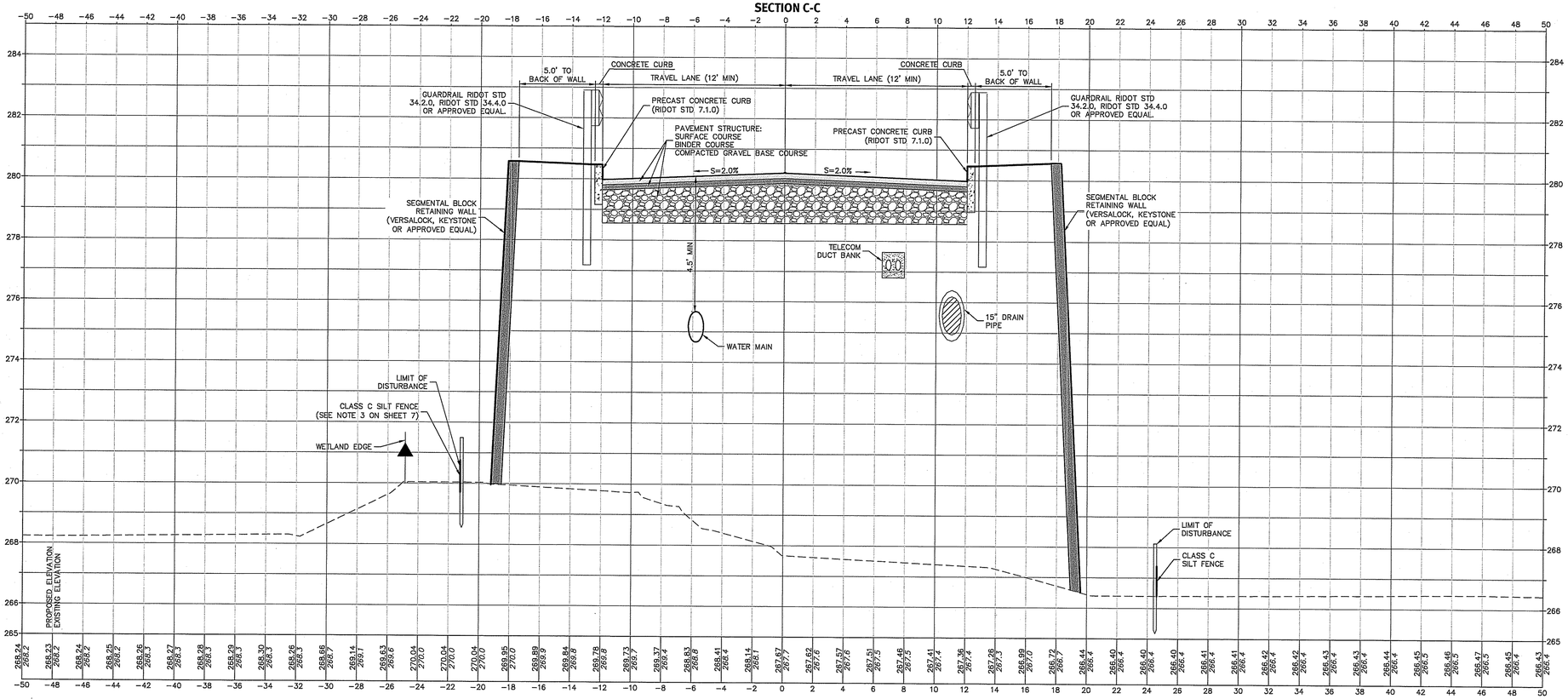
SECTION C-C



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Western Crossing - 3

Citizens Bank Campus

AP 50 Lot 73 and AP 51/1 Lot 17- Greenville Avenue
Johnston, Rhode Island

Prepared for:
Citizens Bank
One Citizens Plaza
Providence, Rhode Island 02903

Applicant AP50/1 Lot 73:
Greater RI Baptist Temple
691 Greenville Avenue
Johnston, RI 02919

Applicant AP50/1 Lot 17:
DAC Properties, Inc.
100 Dorrance Street
Providence, RI 02903

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BRIAN C. GIROUX
No. 9341
7/15/2016
REGISTERED PROFESSIONAL ENGINEER
CIVIL

Environmental Management
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No.	Date	Description	By:
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0	5-13-2016	RIDEM Formal Wetland Submission	JAD/DKN
	Drawn By:JAD/DKN	Design By:BCG	

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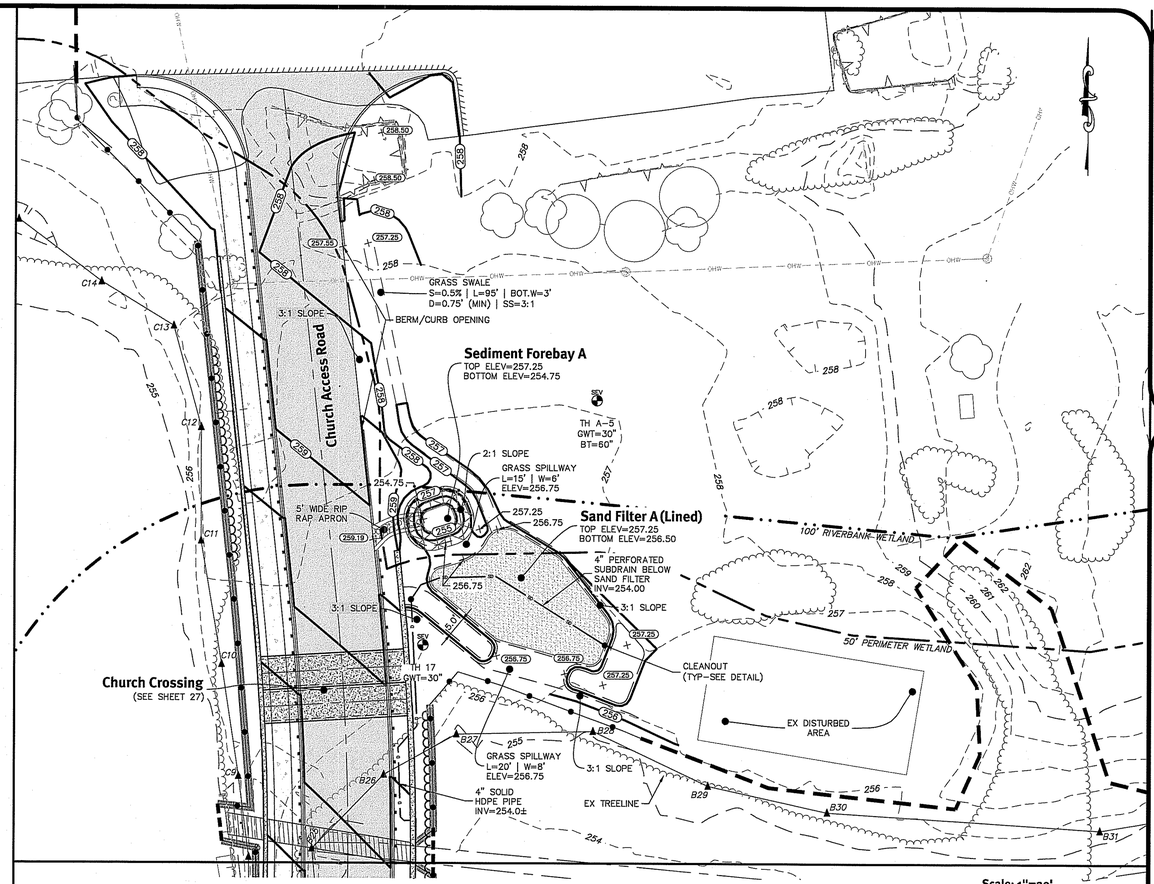
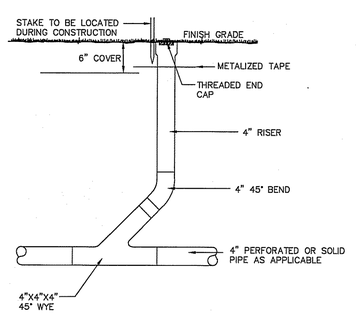
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED OCT 19 2016 FILE # 16-0159
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



Sand Filter A (Lined)

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

NOTES:
1. ENCASE CLEANOUT IN CONCRETE WHEN INVERT IS 12' OR MORE BELOW FINISH GRADE.
2. AT TERMINAL CLEANOUT REPLACE WYE WITH 45° BEND.
3. SUBDRAIN AREA TO BE STAKED, MARKED, AND REMAIN UNDISTURBED PRIOR TO CONSTRUCTION. THERE IS TO BE NO CONSTRUCTION TRAFFIC ON SUBDRAIN AREA PRIOR TO SUBDRAIN CONSTRUCTION.



4" Subdrain Cleanout

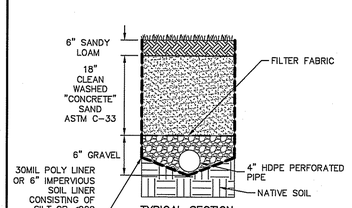
NOT TO SCALE

Sand Filter Planting Notes:

1. SAND FILTER A HAS BEEN DESIGNED IN ACCORDANCE WITH SECTION B.4 BASINS AND WVTS, SECTION B.5 INFILTRATION AND SAND FILTERS AND SECTION 7.0 STORAGE PRACTICES FOR STORMWATER QUALITY CONTROL OF THE RHODE ISLAND STORMWATER DESIGN AND INSTALLATION STANDARDS MANUAL, LATEST EDITION.
2. SEED MIX SHALL BE NEW ENGLAND EROSION CONTROL/ RESTORATION MIX FOR DETENTION BASINS & MOIST SITES AVAILABLE AT NEW ENGLAND WETLAND PLANTS, INC. IN AMHERST, MASSACHUSETTS OR EQUIVALENT. AFTER THE 6" OF LOAM HAS BEEN PLACED ON THE BOTTOM AND/OR SLOPES OF THE (SEE ENGINEERING DETAILS) THE SURFACE SHALL BE RAKED AND SEED APPLIED AT A RATE 35 LBS/ ACRE (1 LB/ 1250 SF).
3. SEED MIX FOR SLOPES 3% OR STEEPER SHALL BE NEW ENGLAND CONSERVATION MIX,/ WILDLIFE MIX AVAILABLE AT NEW ENGLAND WETLAND PLANTS, INC. IN AMHERST, MASSACHUSETTS OR EQUIVALENT. AFTER THE 6" OF LOAM HAS BEEN PLACED ON THE SLOPES (SEE ENGINEERING DETAILS), THE SURFACE SHALL BE RAKED AND SEED APPLIED AT A RATE 25 LBS/ ACRE (1 LB/ 1750 SF).

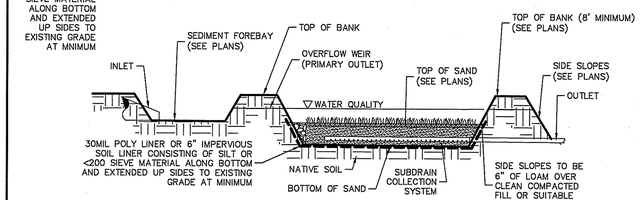
Maintenance & Guarantee Notes:

1. CONTRACTOR SHALL SOD OR OVERSEED ANY AREAS NOT COVERED SUBSTANTIALLY WITH GRASS AFTER ONE YEAR FROM PLANTING.
2. ALL LANDSCAPED AREAS SHALL BE KEPT FREE OF WEEDS AND DEBRIS. ALL VEGETATION WITHIN SAID AREAS SHALL BE MAINTAINED FREE OF PHYSICAL DAMAGE CAUSED BY CHEMICALS, INSECTS, DISEASES, LACK OF WATER OR OTHER CAUSES. DAMAGED PLANTS SHALL BE REPLACED WITH THE SAME OR SIMILAR VEGETATION ON AN ANNUAL BASIS.



TYPICAL SECTION

DESCRIPTION	SF-A
TOP ELEVATION	257.25
100 YEAR STORM ELEVATION	257.64
10 YEAR STORM ELEVATION	256.90
1 YEAR STORM ELEVATION	256.58
TOP OF SOIL ELEVATION	256.50
SAND & LOAM DEPTH	2.0'
BOTTOM OF SAND LAYER	254.50
SEASONAL HIGH GWT ELEVATION	254.25
SOIL EVALUATION	TH-17 TH-A-5



Sand Filter

NOT TO SCALE

DiPrete Engineering
Two Stafford Court Cranston, RI 02920
tel 401-943-1000 fax 401-464-6006 www.diprete-eng.com
Boston • Providence • Newport

BRIAN C. GIROUX
No. 9341
REGISTERED PROFESSIONAL ENGINEER
CIVIL
4/15/2016

Environmental Management
AUG 1 2016
Office of Water Resources

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The contractor is responsible for all of the means, methods, safety precautions and requirements, and OSHA conformance in the implementation of this plan and design.

No.	Date	Description	By
1	2-13-2016	RIDEM Formal Wetland RFFC Submission	MJD/DBN
2	6-13-2016	RIDEM Formal Wetland Submission	MJD/DBN

Drawn By:MJD/DBN Design By:EG

Sand Filter A

Citizens Bank Campus

AP 50 Lot 71 and AP 54 Lot 17 Greenville Avenue
Johnston, Rhode Island

Prepared For:
Citizens Bank®
One Citizens Plaza
Providence, Rhode Island 02903

Applicant APs/Lots 71:
Greater RI Baptist Temple
671 Greenville Avenue
Johnston, RI 02919

Applicant APs/Lots 50 & 57:
D&C Properties, Inc.
100 Dorrance Street
Providence, RI 02903

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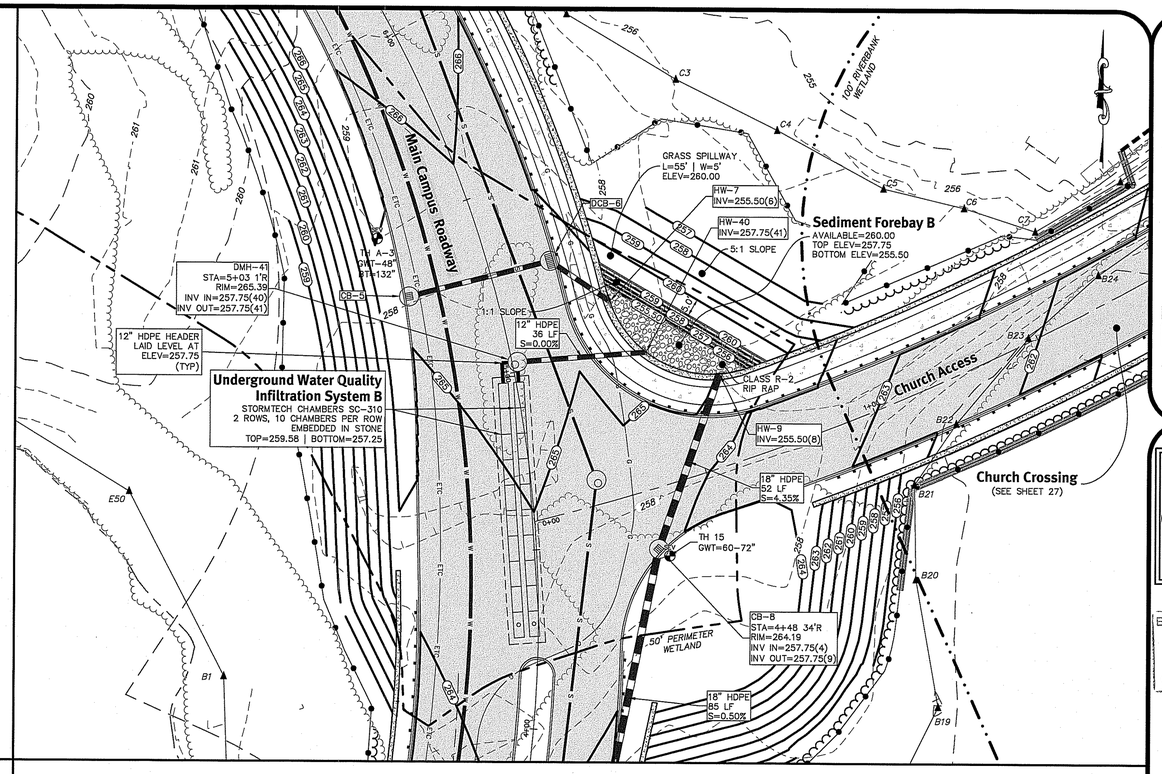

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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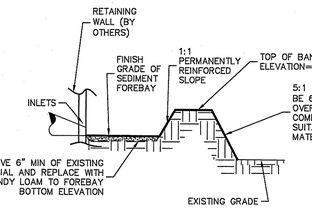
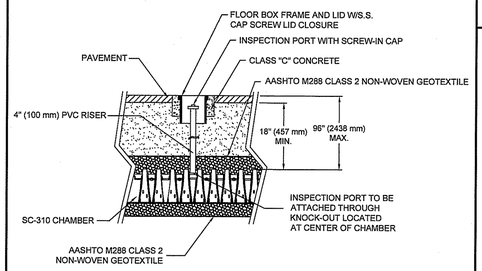
Underground Water Quality Infiltration System B

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

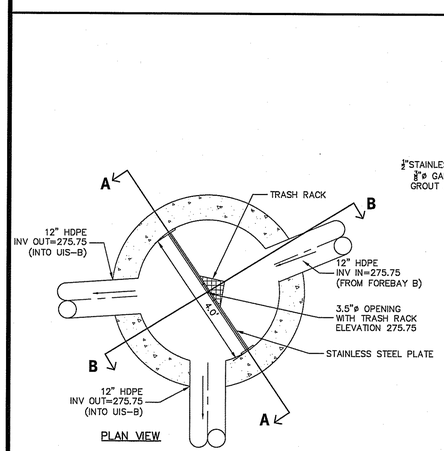
DESCRIPTION	WQ-B
TOP STORAGE ELEVATION	260.00
WQ STORAGE ELEVATION	257.75
100 YEAR STORM ELEVATION	260.11
10 YEAR STORM ELEVATION	260.07
1 YEAR STORM ELEVATION	260.06
BOTTOM ELEVATION	255.50
SEASONAL HIGH GWT ELEVATION	254.00
SOIL EVALUATION	TH-15, TH-A-3

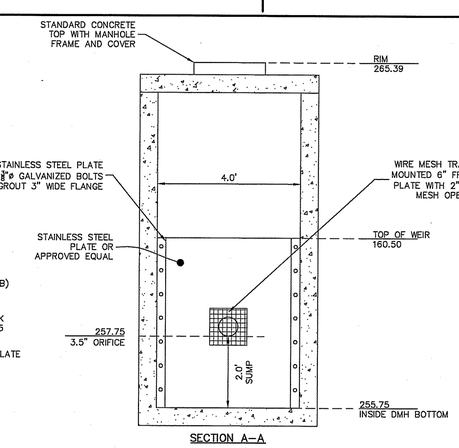


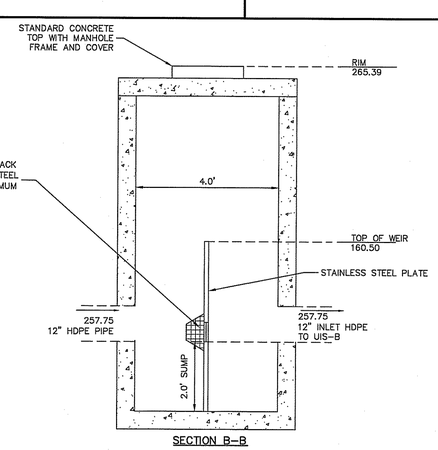
Sediment Forebay B
NOT TO SCALE



Stormtech SC-310 Inspection Port Detail
NOT TO SCALE



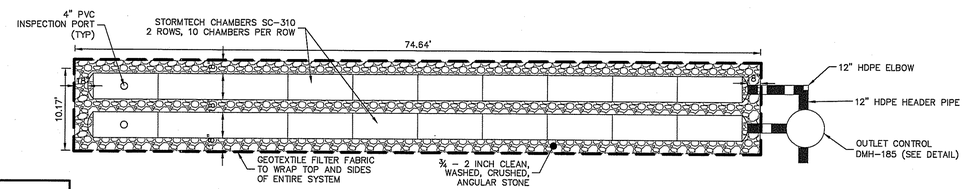




DMH-41 Outlet Control
SCALE: 1"=2'

UNDERGROUND INFILTRATION SYSTEM CONSTRUCTION SEQUENCING:

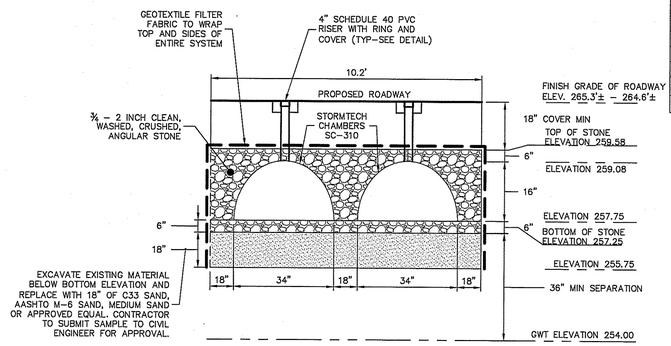
- THE INFILTRATION SYSTEM SHALL NOT BE USED AS A TEMPORARY SEDIMENTATION BASIN DURING CONSTRUCTION.
- THE LIMITS OF THE PROPOSED INFILTRATION SYSTEM SHALL BE STAKED OUT PRIOR TO ANY SITE CONSTRUCTION.
- LIMITED CONSTRUCTION TRAFFIC SHALL BE ALLOWED OVER THE SYSTEM LIMITS PROVIDED THERE IS A MINIMUM OF 3' OF VERTICAL SEPARATION BETWEEN THE PROPOSED BOTTOM OF THE SYSTEM AND EXISTING GRADE AND TRENCH PLATES ARE USED. ONCE THE SYSTEM HAS BEEN EXCAVATED TO BOTTOM OF SYSTEM ELEVATION, NO CONSTRUCTION TRAFFIC SHALL BE ALLOWED WITHIN THE SYSTEM LIMITS.
- THE UNDERGROUND INFILTRATION SYSTEM MAY BE BROUGHT ONLINE ONCE ALL TRIBUTARY AREAS HAVE BEEN COMPLETELY STABILIZED, ALL DRAINAGE PIPES HAVE BEEN CLEANED AND FLUSHED, ALL PRETREATMENT AREAS HAVE BEEN CLEANED, AND WITH APPROVAL FROM THE DESIGN ENGINEER.



PLAN VIEW
NOT TO SCALE

DESCRIPTION	UIS-B
TOP OF SYSTEM	259.58
100 YEAR STORM ELEVATION	260.40
10 YEAR STORM ELEVATION	259.90
1 YEAR STORM ELEVATION	259.60
WQ ELEVATION	258.41
BOTTOM ELEVATION	257.25
ESTIMATED SHGWT ELEVATION	254.0
SOIL EVALUATION	TH-A-3, TH-15

NOTE: STORM ELEVATIONS SHOW FLOODING ABOVE TOP OF SYSTEM DUE TO AVAILABLE STORAGE IN OUTLET CONTROL STRUCTURE AND SEDIMENT FOREBAY



CROSS SECTION
NOT TO SCALE

Underground Water Quality Infiltration System B
NOT TO SCALE

DiPrete Engineering
Two Stafford Court Cranston, RI 02920
tel 401-943-1000 fax 401-464-6006 www.diprete-eng.com
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BRIAN C. GIROUX
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REGISTERED PROFESSIONAL ENGINEER
CIVIL

Environmental Management
AUG 1 2016
Office of Water Resources

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No.	Date	Description	By
1	7/15/2016	RIDEM Forest Wetland SE/C Submission	ADV/DBN
0	6/13/2016	RIDEM Freshwater Wetlands Submission	ADV/DBN

Drawn By:MJD/DBN | Design By:RCG

Underground WQ Infiltration System B

Citizens Bank Campus
AP 50 Lot 71 and AP 54/1 Lot 17 - Greenville Avenue
Johnston, Rhode Island

Prepared For: Citizens Bank
One Citizens Plaza
Providence, Rhode Island 02903

Applicant AP50/1 Lot 17: Greater RI Baptist Temple
671 Greenville Avenue
Johnston, RI 02919

Applicant AP50/1 Lot 71: DAC Properties, Inc.
100 Dorrance Street
Providence, RI 02903

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SHEET 36 OF 38

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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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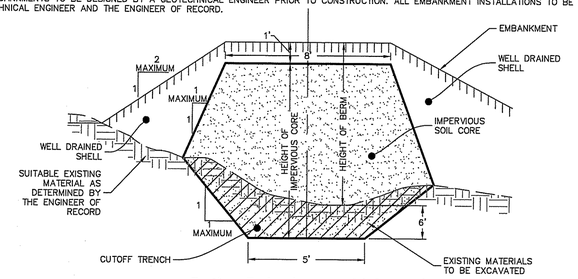
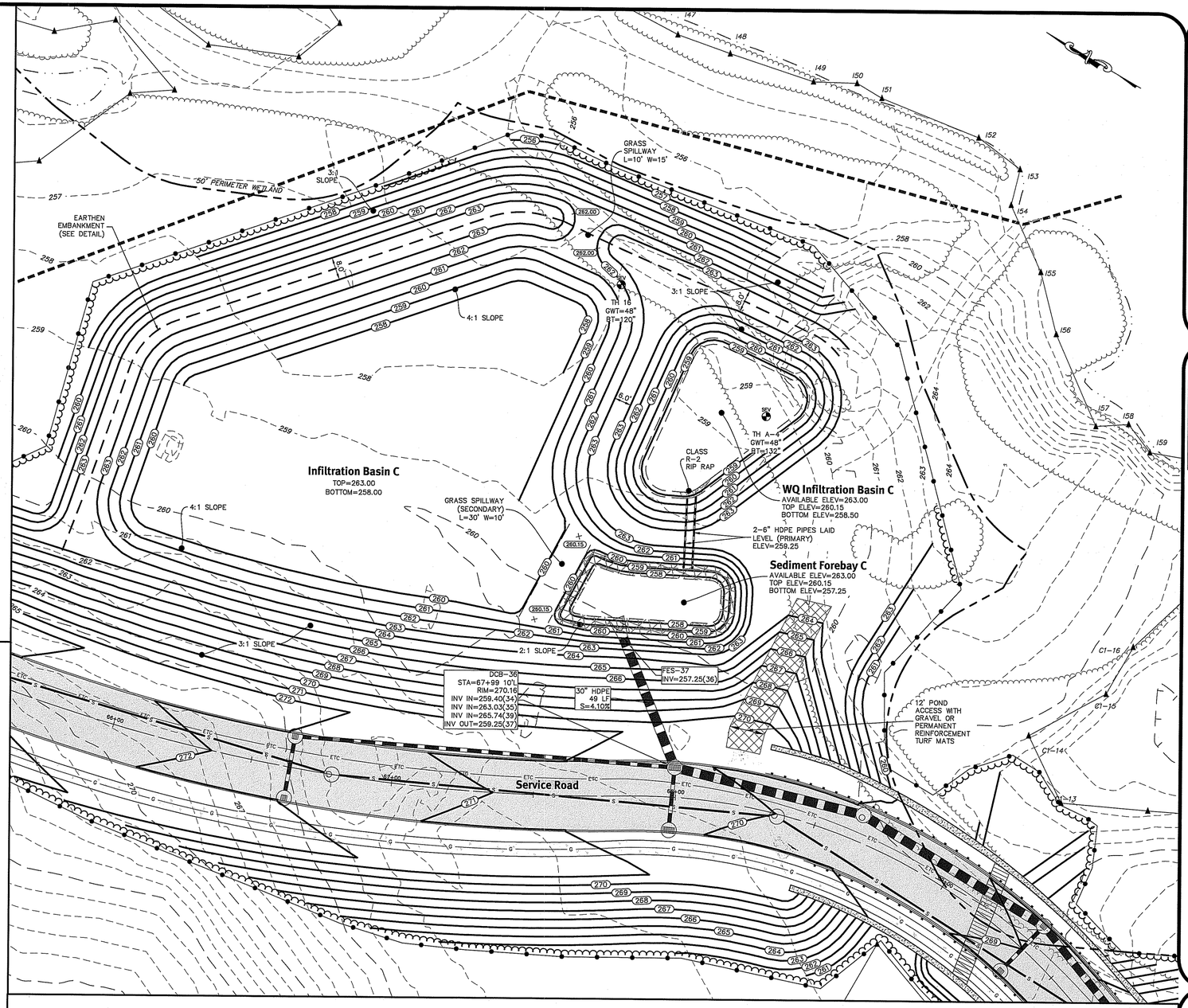
NOTES:
1. IMPERVIOUS SOIL CORE TO BE PROVIDED FOR ALL DETENTION POND EMBANKMENTS.
2. IMPERVIOUS SOIL CORE TO BE CONSTRUCTED OF MATERIAL CONSISTING OF SILT OR #200 SIEVE SILT SOIL AND A MAXIMUM PERMEABILITY OF 0.0001 CM/SEC. CONTRACTOR TO SUBMIT TEST DATA FOR APPROVAL.
3. WELL DRAINED SHELL TO BE CONSTRUCTED OF GRAVEL AND/OR SAND WITH LESS THAN 5% PASSING THE #200 SIEVE.
4. IF BEDROCK IS ENCOUNTERED BELOW THE DAM THE CUT OFF TRENCH CAN BE REDUCED FROM 6'x5' TO 1'x1' AND KEYED INTO BEDROCK.
5. COMPACTION REQUIREMENTS FOR THE SHELL AND IMPERVIOUS CORE TO BE 95% OF THE MODIFIED PROCTOR PER ASTM D1557. ALL FILL TO BE PLACED IN LIFTS NOT EXCEEDING 12".
6. SIDE SLOPE OF EMBANKMENT TO BE 2:1 MAXIMUM. IF SIDE SLOPES ARE STEEPER THAN 3:1, SLOPE PROTECTION MUST BE UTILIZED ON POND EMBANKMENT. THIS INCLUDES, BUT NOT LIMITED TO, RIPRAP AND EROSION CONTROL MATS.
7. THE IMPERVIOUS CORE SHALL BE KEPT FREE FROM STANDING WATER DURING THE BACKFILL OPERATION.
8. ALL EMBANKMENTS TO BE DESIGNED BY A GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION. ALL EMBANKMENT INSTALLATIONS TO BE SUPERVISED BY A GEOTECHNICAL ENGINEER AND THE ENGINEER OF RECORD.



Earthen Embankment with Impervious Core

NOT TO SCALE



Pond Complex C

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

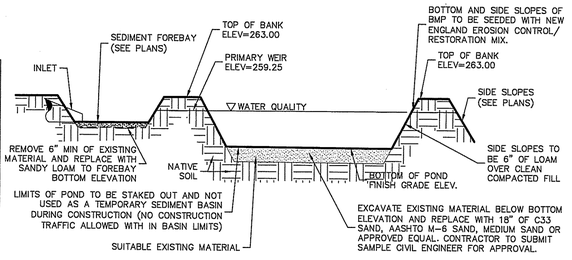
Infiltration Basin Planting Notes:

1. THE INFILTRATION BASIN C HAS BEEN DESIGNED IN ACCORDANCE WITH SECTION B.4 BASINS AND WVTS, SECTION B.5 INFILTRATION AND SAND FILTERS AND SECTION 7.0 STORAGE PRACTICES FOR STORMWATER QUALITY CONTROL OF THE RHODE ISLAND STORMWATER DESIGN AND INSTALLATION STANDARDS MANUAL, LATEST EDITION.
2. SEED MIX SHALL BE NEW ENGLAND EROSION CONTROL/ RESTORATION MIX FOR DETENTION BASINS & MOIST SITES AVAILABLE AT NEW ENGLAND WETLAND PLANTS, INC. IN AMHERST, MASSACHUSETTS OR EQUIVALENT. AFTER THE 6" OF LOAM HAS BEEN PLACED ON THE BOTTOM AND/OR SLOPES OF THE (SEE ENGINEERING DETAILS) THE SURFACE SHALL BE RAKED AND SEED APPLIED AT A RATE 35 LBS/ ACRE (1 LB/ 1250 SF).
3. SEED MIX FOR SLOPES 3% OR STEEPER SHALL BE NEW ENGLAND CONSERVATION MIX/ WILDLIFE MIX AVAILABLE AT NEW ENGLAND WETLAND PLANTS, INC. IN AMHERST, MASSACHUSETTS OR EQUIVALENT. AFTER THE 6" OF LOAM HAS BEEN PLACED ON THE SLOPES (SEE ENGINEERING DETAILS), THE SURFACE SHALL BE RAKED AND SEED APPLIED AT A RATE 25 LBS/ ACRE (1 LB/ 1750 SF).

Maintenance & Guarantee Notes:

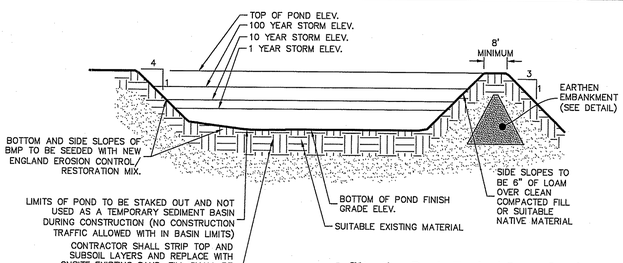
1. CONTRACTOR SHALL SOD OR OVERSEED ANY AREAS NOT COVERED SUBSTANTIALLY WITH GRASS AFTER ONE YEAR FROM PLANTING.
2. ALL LANDSCAPED AREAS SHALL BE KEPT FREE OF WEEDS AND DEBRIS. ALL VEGETATION WITHIN SAID AREAS SHALL BE MAINTAINED FREE OF PHYSICAL DAMAGE CAUSED BY CHEMICALS, INSECTS, DISEASES, LACK OF WATER OR OTHER CAUSES. DAMAGED PLANTS SHALL BE REPLACED WITH THE SAME OR SIMILAR VEGETATION ON AN ANNUAL BASIS.

DESCRIPTION	WQ-C
AVAILABLE STORAGE ELEVATION	263.00
100 YEAR STORM ELEVATION	261.06
10 YEAR STORM ELEVATION	260.14
1 YEAR STORM ELEVATION	259.94
WQ ELEVATION (TOP)	259.61
BOTTOM ELEVATION	258.50
SEASONAL HIGH GWT ELEVATION	255.50
DEPTH TO LIMITING LAYER	250.50'
SOIL EVALUATION	TH-A4



WQ Infiltration Basin

NOT TO SCALE



Infiltration Basin Typical Cross Section

NOT TO SCALE

DESCRIPTION	BASIN C
TOP OF POND ELEVATION	263.00
BOTTOM OF POND	258.00
100 YEAR STORM ELEVATION	261.26
10 YEAR STORM ELEVATION	259.66
1 YEAR STORM ELEVATION	258.28
SEASONAL HIGH GWT ELEVATION	254.00
SOIL EVALUATION	TH-16

DiPrete Engineering
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No.	Date	Description	By
1	7-13-2016	RIDEM Formal Wetland & FC Submission	AD/DRN
0	6-13-2016	RIDEM Formal Wetland Submission	AD/DRN

Drawn By:AD/DRN Design By:BG

Pond Complex C
Citizens Bank Campus

AP 50 Lot 71 and AP 51/1 Lot 17 - Greenville Avenue
Johnston, Rhode Island

Prepared for:
Citizens Bank
One Citizens Plaza
Providence, Rhode Island 02903

Applicant AP50 Lot 71:
Greenville Baptist Temple
691 Greenville Ave.
Johnston, RI 02919

Applicant AP51/1 Lot 17:
Providence Water
100 Dorrance Street
Providence, RI 02903

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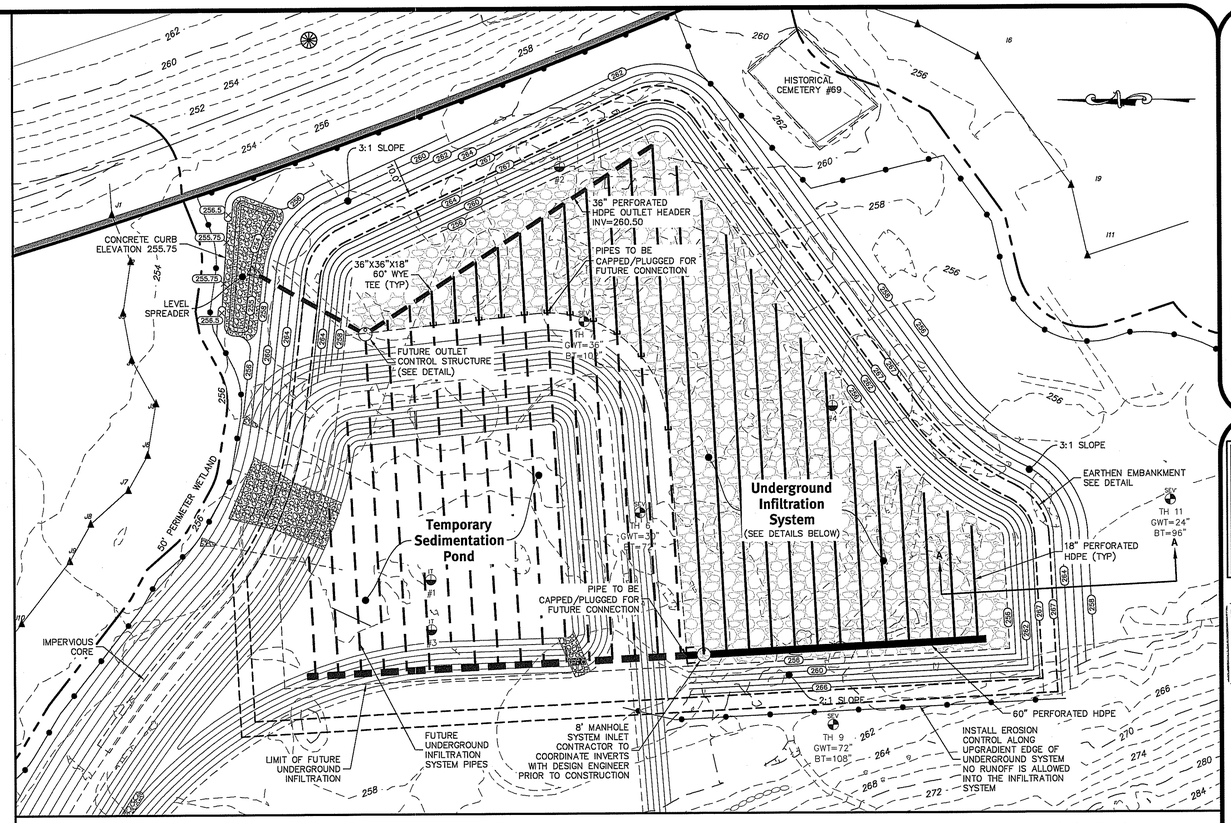

Underground Infiltration System

Scale: 1"=50'
0 25' 50' 100'

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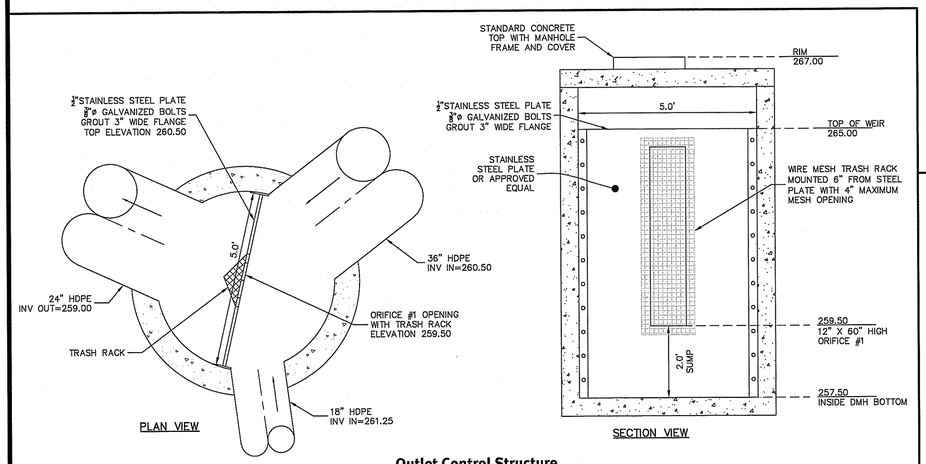
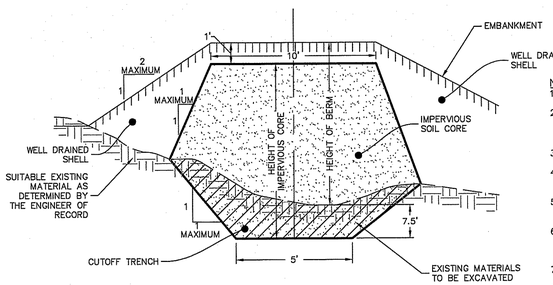


Outlet Control Structure

SCALE: 1"=2'



Earthen Embankment with Impervious Core

NOT TO SCALE

NOTES:

1. IMPERVIOUS SOIL CORE TO BE PROVIDED FOR ALL DETENTION POND EMBANKMENTS.
2. IMPERVIOUS SOIL CORE TO BE CONSTRUCTED OF MATERIAL CONSISTING OF SILT OR #200 SIEVE SILT SOIL AND A MAXIMUM PERMEABILITY OF 0.0001 CM/SEC. CONTRACTOR TO SUBMIT TEST DATA FOR APPROVAL.
3. WELL DRAINED SHELL TO BE CONSTRUCTED OF GRAVEL AND/OR SAND WITH LESS THAN 5% PASSING THE #200 SIEVE.
4. IF BEDROCK IS ENCOUNTERED BELOW THE DAM THE CUT OFF TRENCH CAN BE REDUCED FROM 7.5'x5' TO 1'x1' AND KEYED INTO BEDROCK.
5. COMPACTION REQUIREMENTS FOR THE SHELL AND IMPERVIOUS CORE TO BE 95% OF THE MODIFIED PROCTOR PER ASTM D1557. ALL FILL TO BE PLACED IN LIFTS NOT EXCEEDING 12".
6. SIDE SLOPE OF EMBANKMENT TO BE 2:1 MAXIMUM. IF SIDE SLOPES ARE STEEPER THAN 3:1, SLOPE PROTECTION MUST BE UTILIZED ON POND EMBANKMENT. THIS INCLUDES, BUT NOT LIMITED TO, RIPRAP AND EROSION CONTROL MATS.
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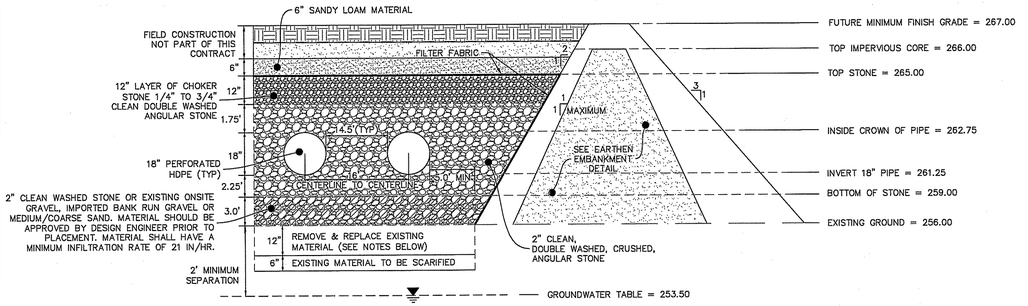


UNDERGROUND INFILTRATION SYSTEM A–A CROSS–SECTION VIEW

NOT TO SCALE

EXISTING MATERIAL REMOVAL NOTE:

1. EXISTING MATERIAL TO BE REMOVED UNDER THE UNDERGROUND INFILTRATION SYSTEM TO A MINIMUM DEPTH OF 12" BELOW EXISTING GRADE. EXCAVATION SHALL BE WITNESSED AND DIRECTED BY THE ENGINEER OF RECORD.
2. AFTER REMOVAL OF EXISTING MATERIAL, EXISTING GROUND IS TO BE THOROUGHLY SCARIFIED UNDER THE DIRECTION OF THE ENGINEER OF RECORD.
3. MATERIAL REMOVED SHALL BE REPLACED WITH CLEAN SAND–GRAVEL FILL FROM EITHER ONSITE OR IMPORTED. IF THERE IS NO ONSITE SUITABLE MATERIAL, FILL SHALL BE CONSISTENT WITH THE ASTM C33 CONCRETE SAND SIEVE SPECIFICATION. SIEVE ANALYSIS RESULTS FOR SAND–GRAVEL FILL MATERIAL SHALL BE PROVIDED TO ENGINEER OF RECORD FOR APPROVAL PRIOR TO PLACEMENT.
4. SAND–GRAVEL FILL SHALL BE PLACED TO ELEVATION 256.0 BEFORE PLACEMENT OF STONE. MATERIAL SHALL BE COMPACTED WITH PLATE COMPACTOR AND NOT OVER COMPACTED (NO VIBRATORY ROLLERS). PLACEMENT OF MATERIAL SHALL BE WITNESSED BY THE ENGINEER OF RECORD.

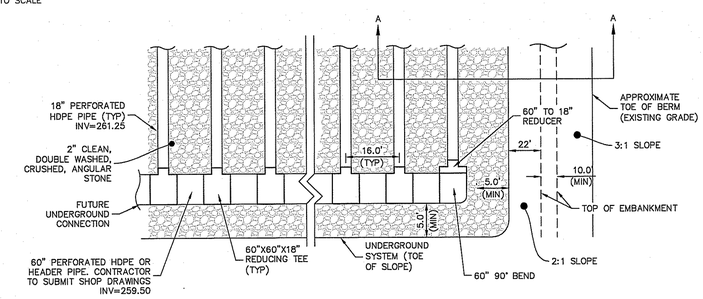
EXISTING MATERIAL REMOVAL NOTE:

1. FILTER FABRIC SHALL BE MIRAFI 180–N OR APPROVED EQUAL.
2. ALL HDPE PIPE SHALL BE PERFORATED (ASSHTO CLASS II PERFORATIONS)

BANK RUN GRAVEL SPECIFICATIONS

SIEVE SIZE	PERCENT FINER BY WEIGHT
4 INCH	100
1/2 INCH	50–85
NO. 4	40–75
NO. 10	30–60
NO. 40	10–35
NO. 50	8–28
NO. 100	5–20*
NO. 200	0–10

* THE AMOUNT PASS THE NO. 100 SIEVE SHOULD BE BETWEEN FORTY PERCENT (40%) AND SEVENTY PERCENT (70%) OF THAT AMOUNT PASSING THE NO. 40 SIEVE.



Underground Infiltration System - Plan View

NOT TO SCALE

DiPrete Engineering
Two Stafford Court Cranston, RI 02920
tel 401-943-1000 fax 401-464-6606 www.diprete-eng.com
Boston • Providence • Newport

BRIAN C. GIROUX
No. 9341
REGISTERED PROFESSIONAL ENGINEER
CIVIL
7/31/2016

Environmental Management
AUG 1 2016
Office of Water Resources

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The contractor is responsible for all of the means, methods, safety precautions and requirements, and OSHA conformance in the implementation of this plan and design.

No.	Date	Description	By
1	2-13-2016	RIDEM Formal Wetland SE/E Submission	RD/DRK
0	6-13-2016	RIDEM Formal Wetland Submission	RD/DRK

Drawn By:RD/DRK | Design By:RDC

Underground Infiltration System Z

Citizens Bank Campus

AP 50 Lot 74 and AP 51/1 Lot 17 - Greenville Avenue
Johnston, Rhode Island

Prepared For:
Citizens Bank
Greater RI Baptist Temple
One Citizens Plaza
Providence, Rhode Island 02903

Applicant-AP50/1 Lot 17:
Greater RI Baptist Temple
100 Dorrance Street
Providence, RI 02903

Applicant-AP50 Lot 74:
Citizens Bank
1000 Atwood Ave
Johnston, RI 02919

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SHEET 38 OF 38

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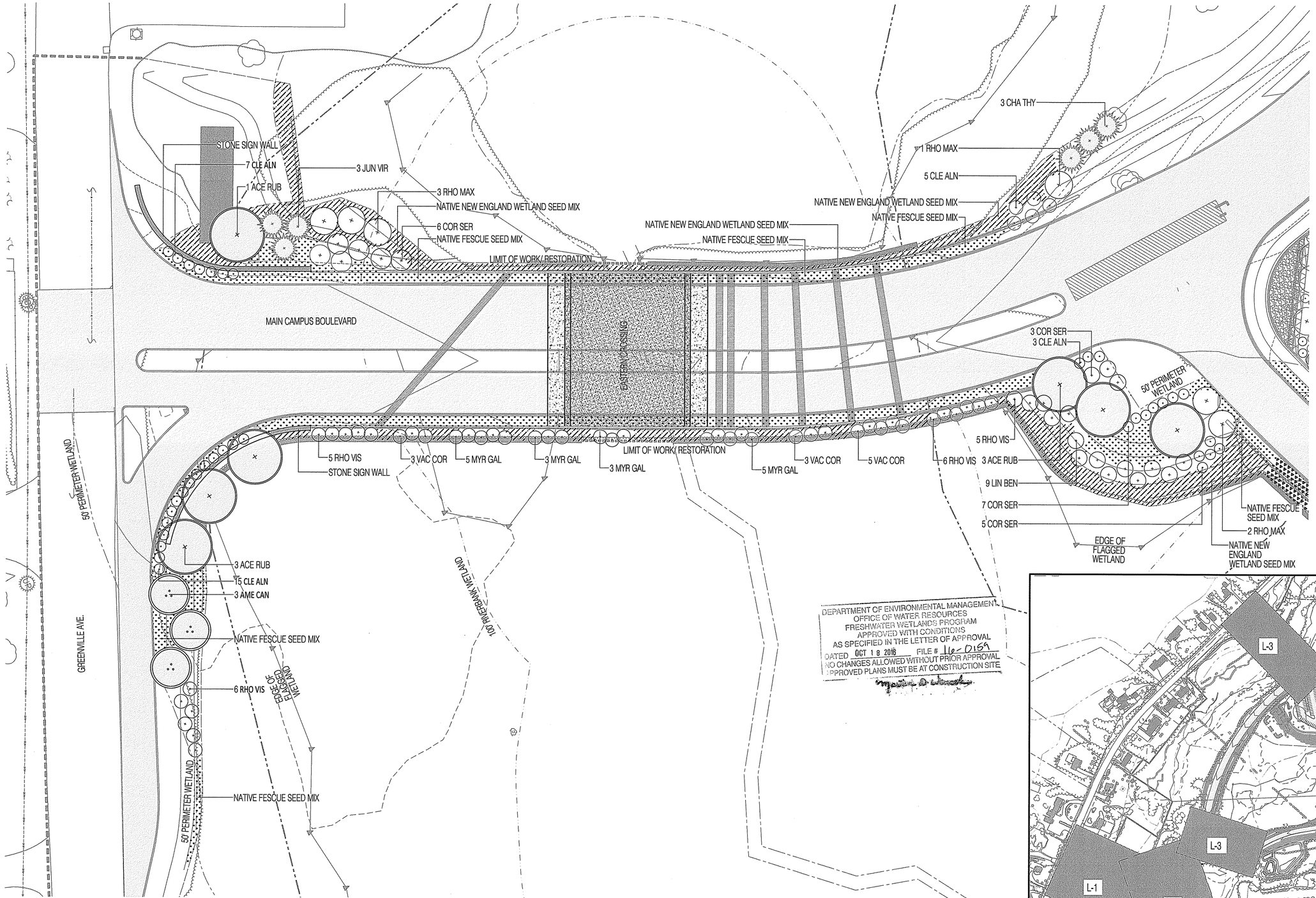
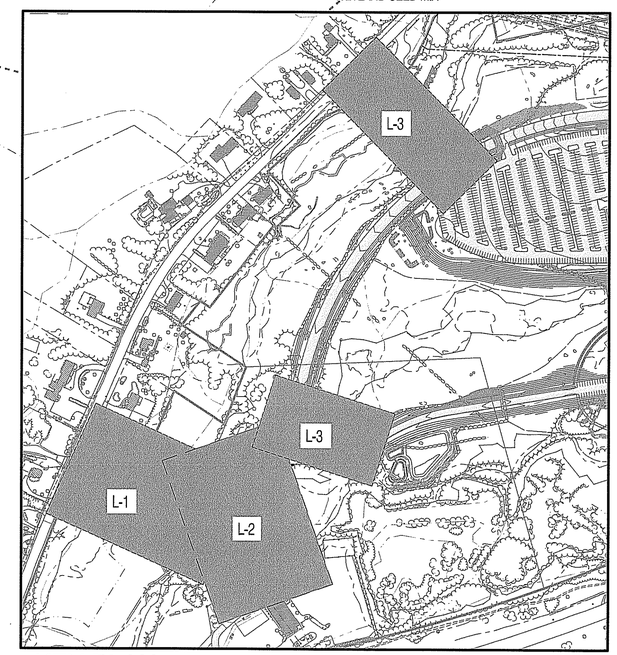


DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED OCT 18 2016 FILE # 16-0159
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

PLANTING PLAN - EASTERN CROSSING

SCALE: 1"=20'-0"



KEY PLAN

SCALE: 1"=300'-0"

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CRJA
Carol R Johnson Associates Inc
landscape architects

No.	Date	Description	By:
1	2/15/2016	RIDEM Formal Wetland Submission	JDV/DMK
			Design By:CF
		Drawn By:BB	

Planting Plan - Eastern Crossing

Citizens Bank Campus

AP 50 Lot 71 and AP 51/ Lot 17 - Greenville Avenue
Johnston, Rhode Island

Prepared for:
Citizens Bank®
One Citizens Plaza, Providence, Rhode Island 02903

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SHEET L-1 1 OF 5

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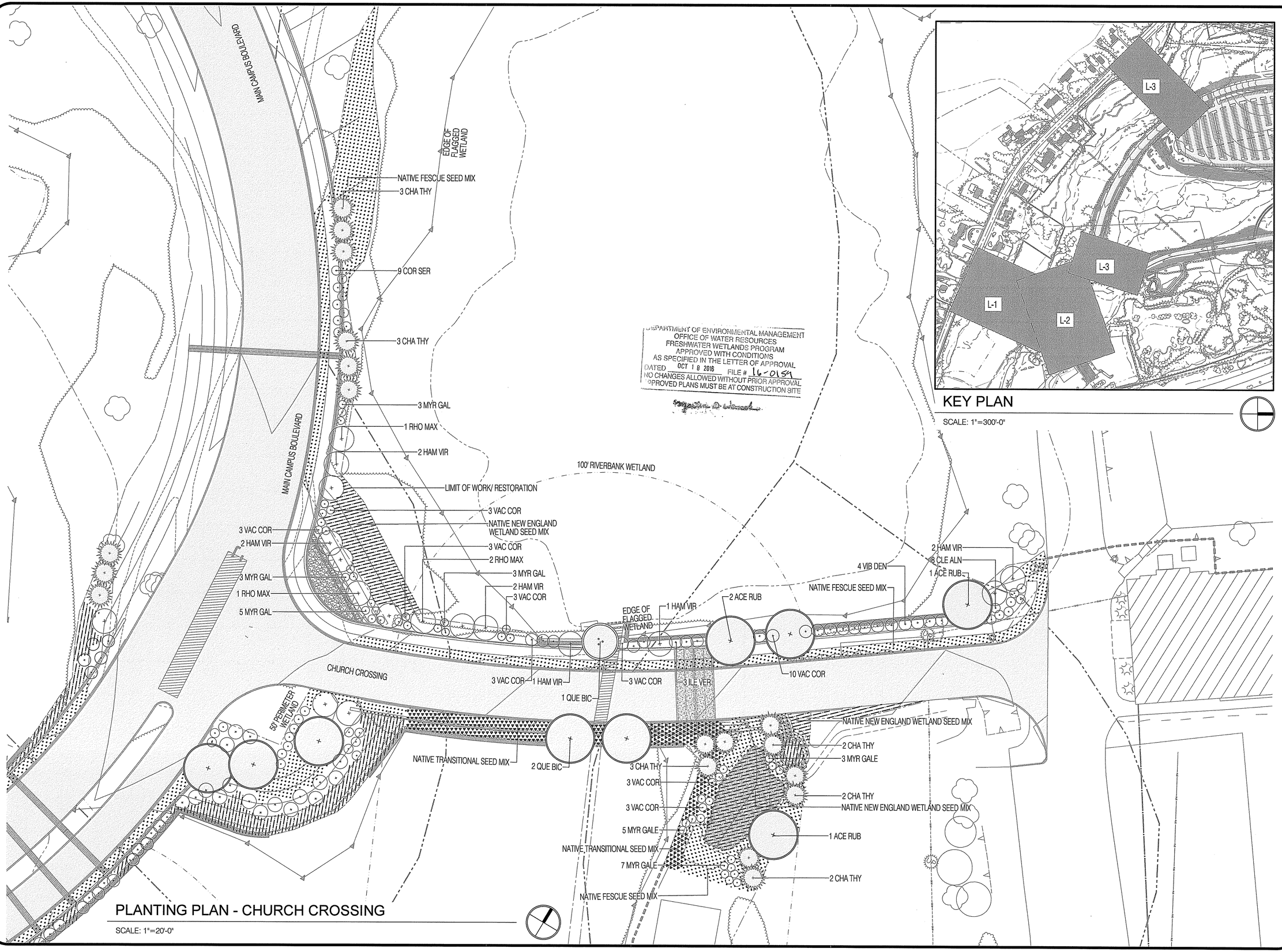

PLANTING PLAN - CHURCH CROSSING

SCALE: 1"=20'-0"

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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FRESHWATER WETLANDS PROGRAM
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KEY PLAN

SCALE: 1"=300'-0"

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No.	Date	Description	By
1	7/25/2016	RIDEM Formal Wetland Submission	ADP/KRH
			Design By:CF
			Drawn By:BB

Planting Plan - Church Crossing

Citizens Bank Campus

AP 50 Lot 71 and AP 51/1 Lot 17 - Greenville Avenue
Johnston, Rhode Island

Prepared for:
Citizens Bank®
One Citizens Plaza, Providence, Rhode Island 02903

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landscape architects

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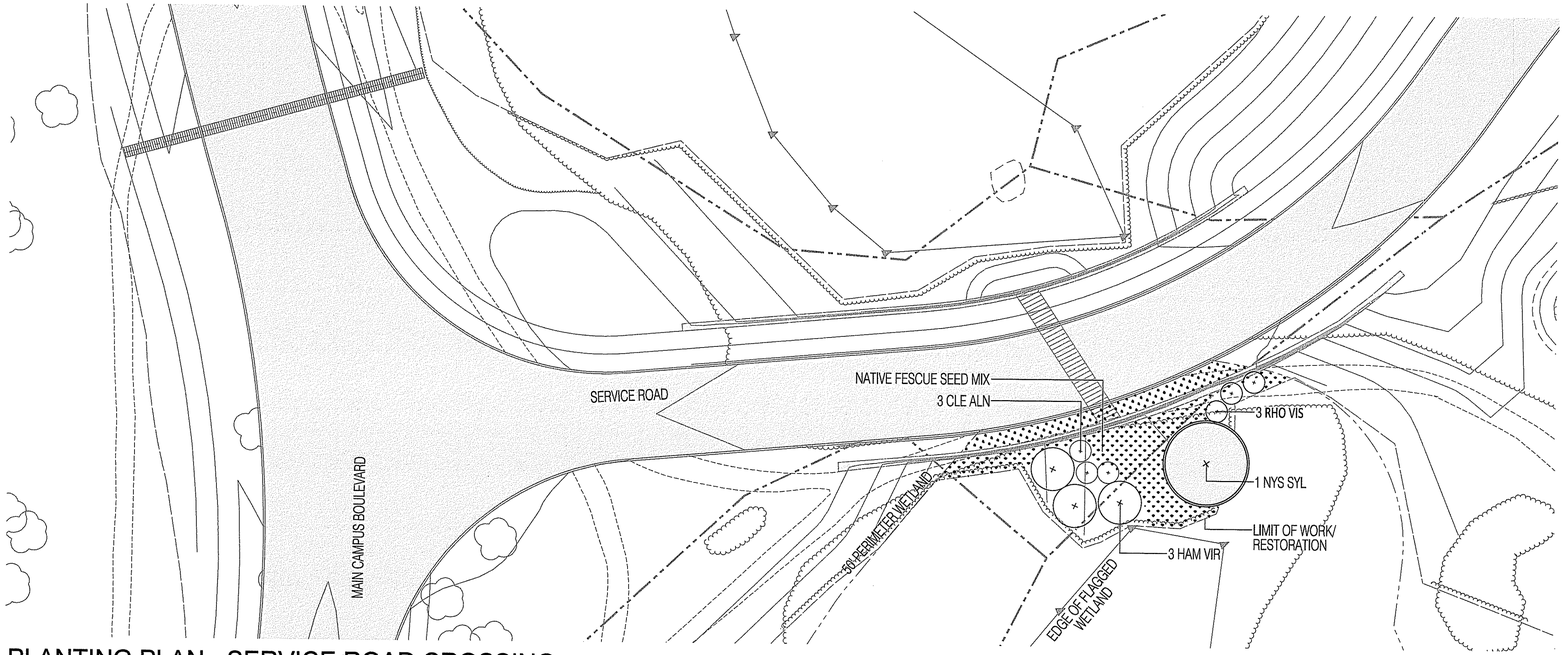
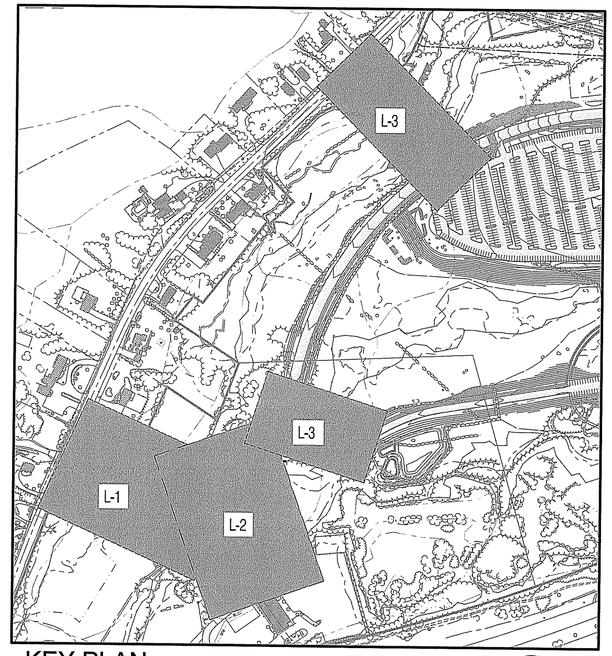


PLANTING PLAN - SERVICE ROAD CROSSING

SCALE: 1"=20'-0"



KEY PLAN

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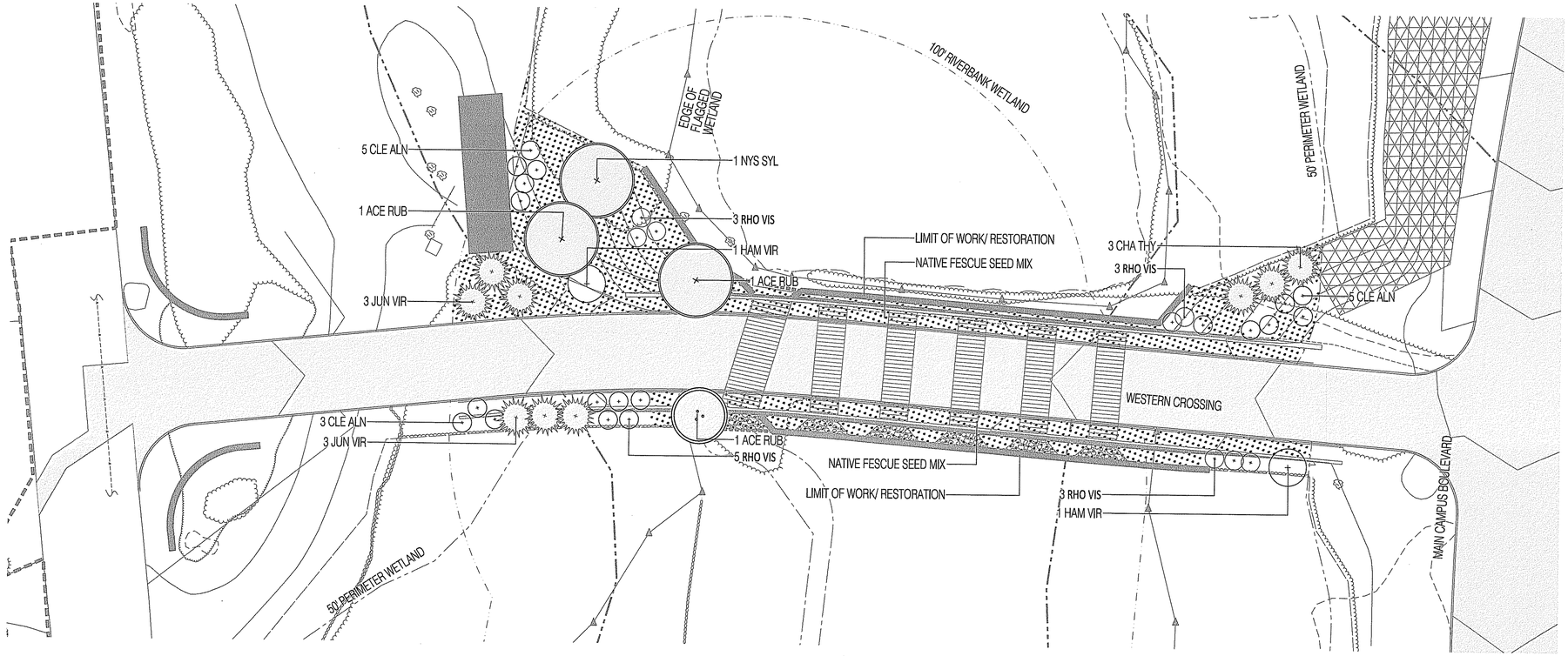

PLANTING PLAN - WESTERN CROSSING

SCALE: 1"=20'-0"

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FRESHWATER WETLANDS PROGRAM
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Carol R Johnson Associates Inc
landscape architects

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No.	Date	Description	By
0	7/20/2016	RIDEM Formal Wetlands Submission	

Drawn By:BB Design By:CF

Planting Plan - Service & Western Crossing

Citizens Bank Campus

AP 50 Lot 71 and AP 51/1 Lot 17 - Greenville Avenue
Johnston, Rhode Island

Prepared For:
Citizens Bank®
One Citizens Plaza, Providence, Rhode Island 02903

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SHEET L-3 3 OF 5

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PLANTING SCHEDULE					
SYMBOL	QTY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
DECIDUOUS TREES					
ACE RUB	14	Acer rubrum	Red maple	3" cal.	B&B
AME CAN	3	Amelanchier canadensis	Serviceberry	3" cal	B&B
NYS SYL	2	Nyssa sylvatica	Black tupelo	3" Cal	B&B
QUE BIC	3	Quercus bicolor	Swamp white oak	3" Cal	B&B
EVERGREEN TREES					
CHA THY	21	Chamaecyparis thyoides	Atlantic white-cedar	8'-10' HT	B&B
JUN VIR	9	Juniperus virginiana	Red cedar	8'-10' HT	B&B
SHRUBS					
CLE ALN	49	Clethra alnifolia	Sweet pepperbush	18"- 24" HT	
COR SER	30	Cornus sericea Red '	Twig dogwood	18"- 24" HT	
HAM VIR	15	Hamamelis virginiana	Common witchhazel	36"- 48" HT	
ILE VER	3	Ilex verticiliata	Lindera benzoin	18"- 24" HT	
LIN BEN	9	Lindera benzoin	Spicebush	18"- 24" HT	
MYR GAL	45	Myrica gale	Sweet gale	18"- 24" HT	
RHO MAX	10	Rhododendron maximum	Rosebay	24"- 30" HT	
RHO VIS	39	Rhododendron viscosum	Swamp azalea	18"- 24" HT	
VAC COR	45	Vaccinium corybosum	Highbush blueberry	18"- 24" HT	
VIB DEN	4	Viburnum dentatum	Arrowwood viburnum	18"- 24" HT	
SEED MIXES					
	17117 SF	Native fescue seed mix		hydroseed	submit seed mix for review
	6460 sf	Native New England wetland seed mix		hydroseed	Submit seed mix for review
	1698 sf	Native Transitional seed mix		hydroseed	Submit seed mix for review

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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CRJA
Carol R Johnson Associates Inc
landscape architects

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No.	Date	Description	By
1	2-10-2016	401WQC/Permit/Wetland Submission	DJV/MDH
2	7-14-2016	Drawn By/BB	Design By/CF

Planting Schedule

Citizens Bank Campus

AP 50 Lot 71 and AP 51/1 Lot 17 - Greenville Avenue
Johnston, Rhode Island

Prepared for:
Citizens Bank®
One Citizens Plaza, Providence, Rhode Island 02903

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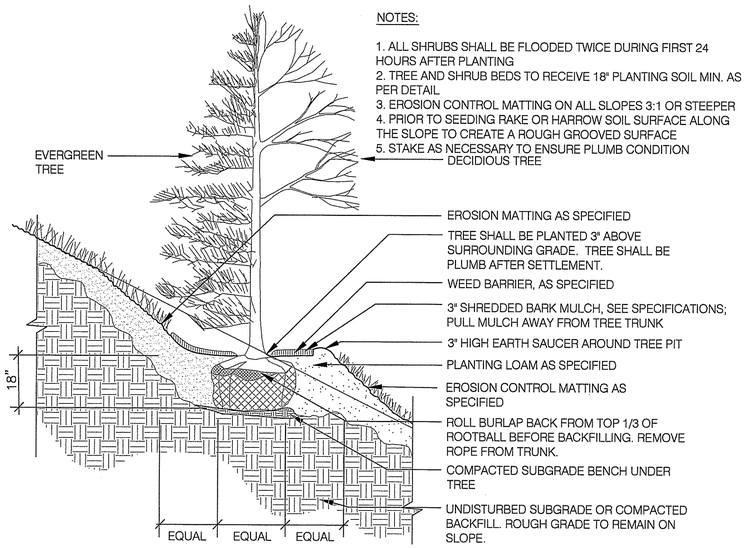
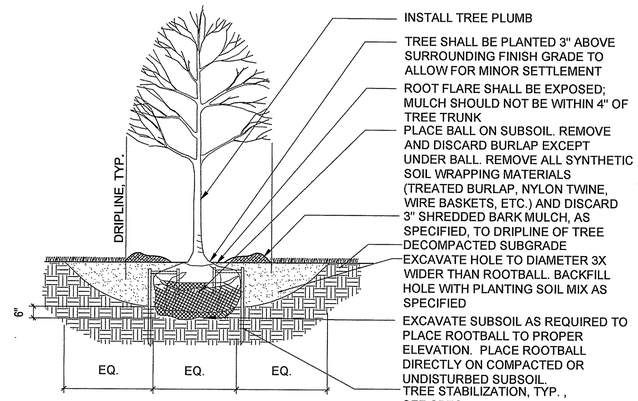


1 SLOPED TREE PLANTING

N.T.S.



2 DECIDUOUS TREE PLANTING

N.T.S.

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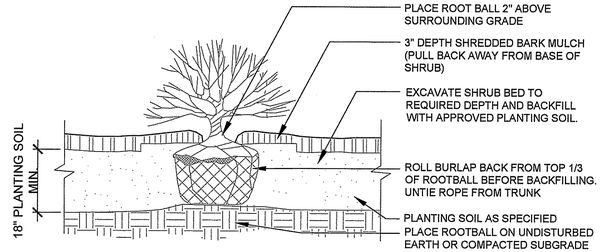
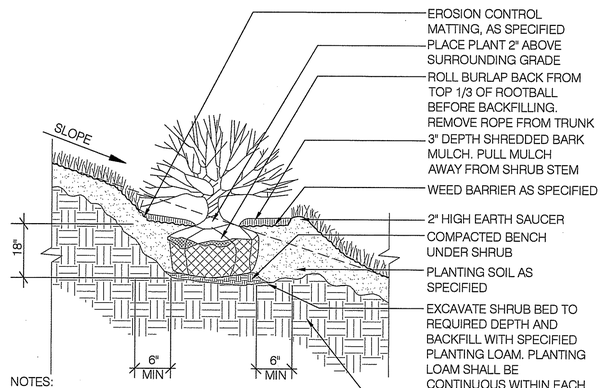


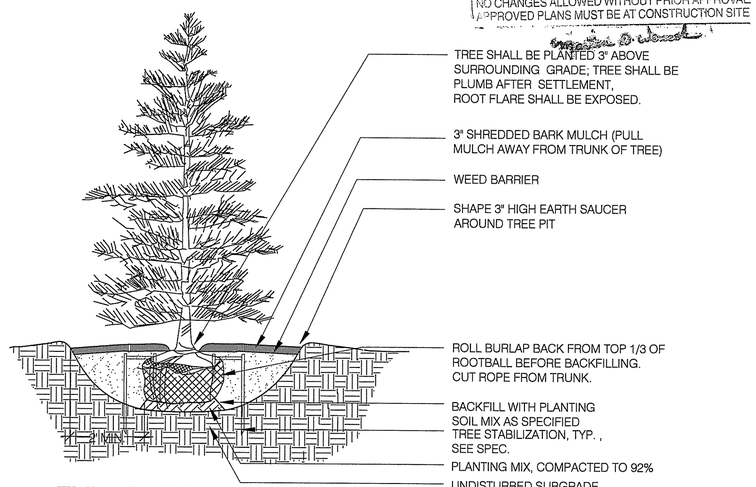
3 SHRUB PLANTING

N.T.S.



4 SLOPED SHRUB PLANTING

N.T.S.



5 EVERGREEN TREE PLANTING

N.T.S.

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No	Date	Description	By
0	7/5/2016	RIDEM Formal Wetland Submission	ADV/BRH
			Design By:CF
			Drawn By:BB

Planting Details

Citizens Bank Campus

AP 50 Lot 71 and AP 51/1 Lot 17 - Greenville Avenue
Johnston, Rhode Island

Prepared for:
Citizens Bank®
One Citizens Plaza, Providence, Rhode Island 02903

Carol R Johnson Associates Inc
landscape architects

DE Job No: 2367-001

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