

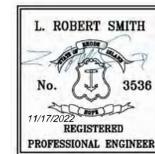
COLETTA GROUP LLC

MAJOR LAND DEVELOPMENT

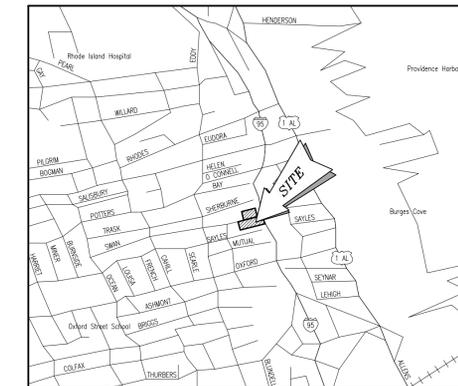
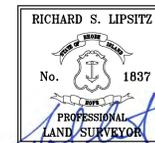
SWAN STREET & SAYLES STREET
 PROVIDENCE, RHODE ISLAND
 NOVEMBER 2022

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* SIGNATURES MUST BE IN BLUE INK
 TO CONSTITUTE AN ORIGINAL PLAN



LOCATION MAP

SITE LOCATION: A.P. 47, LOTS 843 & 844
SITE ADDRESS: SWAN STREET & SAYLES STREET
 PROVIDENCE, RI 02905

OWNER NAME: SWAN PROPERTIES LLC
OWNER ADDRESS: 7715 POST ROAD, SUITE 204
 NORTH KINGSTOWN, RI 02852

APPLICANT NAME: THE COLETTA GROUP LLC
APPLICANT ADDRESS: 7715 POST ROAD, SUITE 204
 NORTH KINGSTOWN, RI 02852

RHODE ISLAND DEPT. of ENVIRONMENTAL MANAGEMENT
 RHODE ISLAND POLLUTION DISCHARGE ELIMINATION
 SYSTEM SUBMISSION



46 Sutton Avenue
 East Providence, RI
 Phone: (401) - 438 - 5775
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 www.watermanengineering.net

EXISTING LEGEND

	PROPERTY LINE		GRANTEE BOUND
	ASSESSORS LINE		DRILL HOLE
	BUILDING		IRON PIPE
	SIGN		SEWER
	TRELLINE		SANITARY SEWER MANHOLE
	BRUSHLINE		SANITARY SEWER VALVE
	HEDGE LINE		SANITARY SEWER CLEANOUT
	GUARDRAIL		HYDRANT
	FENCE		IRRIGATION VALVE
	RETAINING WALL		WATER VALVE
	STONE WALL		WATER SHUT-OFF VALVE
	MINOR CONTOUR LINE		WELL
	MAJOR CONTOUR LINE		MONITORING WELL
	EXISTING SPOT ELEVATION		UNKNOWN MANHOLE
	WATER LINE		GAS VALVE
	SEWER FORCE MAIN		STREAM FLOW DIRECTION
	GAS LINE		
	ELECTRIC LINE		
	OVERHEAD WIRES		
	TELECOM LINE		
	DRAINAGE LINE		
	SOILS LINE		
	50' PERIMETER WETLAND		
	100' RIVERBANK WETLAND		
	200' RIVERBANK WETLAND		
	FEMA BOUNDARY		
	STREAM		
	WETLAND LINE & FLAG		

PROPOSED LEGEND

NOTE: NOT ALL ITEMS SHOWN WILL APPEAR ON PLANS

	PROPERTY LINE		DRAINAGE
	BUILDING SETBACKS		STORM DRAIN MANHOLE
	SUBDIVISION LINE		CATCH BASIN
	FENCE		DOUBLE CATCH BASIN
	SAWCUT		FLARED END SECTION
	GUARDRAIL, SEE LAYOUT & MATERIALS NOTE 8.		OUTLET CONTROL STRUCTURE
	RETAINING WALL		DRAIN CLEANOUT
	MINOR CONTOUR LINE		DRAINAGE LINE
	MAJOR CONTOUR LINE		ROOF DOWNSPOUT SYSTEM
	SPOT ELEVATION		BMP UNDERDRAIN LINE
	EDGE OF PAVEMENT		DRAINAGE SWALE
	BITUMINOUS BERM		SEWER
	MONOLITHIC CURB		SANITARY SEWER MANHOLE
	CONCRETE CURB		SANITARY SEWER VALVE
	GRANITE CURB		SANITARY SEWER CLEANOUT
	BUILDING FOOTPRINT		SANITARY SEWER LINE
	BUILDING OVERHANG		SANITARY SEWER FORCEMAIN
	ASPHALT PAVEMENT		GAS
	HEAVY DUTY ASPHALT PAVEMENT		GAS VALVE
	HEAVY DUTY CONCRETE		GAS LINE
	CONCRETE		WATER
	ASPHALT SIDEWALK		WATER MANHOLE / METER PIT
	HARDSCAPE		WATER VALVE
	OVERHEAD WIRE		WATER SHUT-OFF
	GRAVEL PATH / AREA		HYDRANT
	PLANTINGS		WATER LINE ASSEMBLY
	LAWN		THRUST BLOCK
	WATER / WATER FEATURE		ELECTRIC / TELECOMMUNICATIONS
	RIP-RAP		ELECTRIC MANHOLE
	STORMWATER BMP		ELECTRIC LINE
	BOULDERS		TELECOMMUNICATIONS LINE
	SIGN		
	ACCESSIBLE PARKING SPACE SYMBOL		

GENERAL NOTES:

- SEE SHEET 2 FOR EXISTING CONDITIONS NOTES & REFERENCES.
- ALL EXISTING UTILITIES HAVE BEEN PLOTTED BASED UPON BOUNDARY & TOPOGRAPHIC SURVEY PLANS PREPARED BY WATERMAN ENGINEERING COMPANY. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING DRAINAGE & UTILITIES, BOTH UNDERGROUND & OVERHEAD, BEFORE EXCAVATION BEGINS IN ACCORDANCE WITH THE SAFE PROGRAM LAW ENACTED BY THE R.I. LEGISLATURE AND BY CONTACTING THE INDIVIDUAL UTILITY COMPANIES. EXCAVATION SHALL BE IN ACCORDANCE WITH ALL STATUTES, ORDINANCES, RULES AND REGULATIONS OF ANY CITY, STATE OR FEDERAL AGENCY THAT MAY APPLY. ANY CHANGES TO THE EXISTING UTILITIES SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- THE SITE IS LOCATED ON THE CITY OF PROVIDENCE ASSESSOR MAP #47, LOTS 843 & 844.
- THE SITE IS 90,043 SQUARE FEET (2.047 ACRES) AND IS ZONED "MM-K-75".
- THE OWNER OF ASSESSOR MAP #47, LOTS 843 & 844 IS: SWAN PROPERTIES LLC (c/o AJAY COLETTA) 7715 POST ROAD, SUITE 204 NORTH KINGSTOWN, RI 02882
- PORTIONS OF THESE PREMISES ARE SITUATED IN A "ZONE 'X' (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN AS DESIGNATED ON THE "NATIONAL FLOOD INSURANCE PROGRAM FIRM FLOOD INSURANCE RATE MAP" PROVIDENCE COUNTY, RHODE ISLAND (ALL JURISDICTIONS) PANEL 317 OF 461, CITY OF PROVIDENCE MAP NUMBER 44072033116, LAST REVISED: SEPTEMBER 18, 2013 & PANEL 318 OF 461, CITY OF PROVIDENCE MAP NUMBER 440720331160, EFFECTIVE REVISED: MARCH 2, 2009. FEDERAL EMERGENCY MANAGEMENT AGENCY".
- ANY NEW WORK PERFORMED HEREIN IS TO BE GOVERNED BY CURRENT EDITIONS OF THE RHODE ISLAND STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, AND THE CITY OF PROVIDENCE STANDARD SPECIFICATIONS AND DETAILS INCLUDED AS PART OF THE DRAWINGS. IN AREAS OF CONFLICT BETWEEN THE DIFFERENT SPECIFICATIONS, THE DESIGN PLANS AND THE CITY OF PROVIDENCE STANDARD SPECIFICATIONS WILL TAKE PRECEDENCE OVER THE GENERAL SPECIFICATIONS AND THE DESIGN ENGINEER WILL INTERPRET THE CONSTRUCTION REQUIREMENT. THE CONTRACTOR IS ADVISED TO SUBMIT A REQUEST FOR INFORMATION (RFI) FOR ANY AREAS OF CONFLICT BEFORE COMMITTING TO CONSTRUCTION.
- 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/SUBSITES/CONTRACTORSANDCONSULTANTS.PHP](http://www.dot.ri.gov/subsites/contractorsandconsultants.php)
- ANY PROPRIETARY PRODUCTS REFERENCED IN THIS PLAN SET ARE REPRESENTATIVE OF THE MINIMUM DESIGN REQUIREMENTS FOR THE PURPOSES OF THIS PLAN SET. ANY PROPRIETARY PRODUCT MAY BE SUBMITTED TO THE ENGINEER FOR REVIEW BY OTHERS THAT IS SHOWN ON THE WATERMAN ENGINEER COMPANY IS STRICTLY FOR INFORMATION. SPECIFICATION PURPOSES ONLY. WATERMAN ENGINEERING COMPANY DOES NOT WARRANT ANY PROPRIETARY PRODUCTS, DETAILS BY OTHERS OR THEIR RESPECTIVE DESIGNS. IF A WATERMAN ENGINEERING COMPANY PLAN INCLUDES A PROPRIETARY PRODUCT / DETAIL BY OTHERS (EITHER EXPLICITLY OR IMPLIED) AND IS STAMPED BY A REGISTERED PROFESSIONAL ENGINEER OF WATERMAN ENGINEERING COMPANY, SAID STAMP DOES NOT EXTEND TO ANY PORTION OF THE PROPRIETARY PRODUCT / DETAIL BY OTHERS OR ITS DESIGN.
- "APPROVED EQUAL" PRODUCTS MAY BE USED BY THE CONTRACTOR ONLY UPON APPROVAL BY THE DESIGN ENGINEER. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE SUBMITTALS TO THE DESIGN ENGINEER FOR REVIEW.
- WORK SHOWN ON PLANS FOR WHICH THERE ARE NO PARTICULAR DETAILS OR SPECIFICATIONS DOES NOT RELIEVE THE CONTRACTOR FROM FURNISHING AND INSTALLING THE WORK. THE CONTRACTOR SHALL THOROUGHLY EXAMINE THE CONTRACT DOCUMENTS AND PLANS AND INSPECT THE SITE, AND THE BID PRICE SHALL INCLUDE ALL SERVICES AND MATERIALS NECESSARY TO COMPLETE THE PROJECT, ANY CHANGES TO THE PROJECT OR THE INSTALLATION OF AN ITEM FOR WHICH NO PARTICULAR DETAIL OR SPECIFICATION WAS PROVIDED MUST BE REVIEWED BY AND ACCEPTABLE TO THE ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES, ALTERATIONS OR OMISSIONS OF ANY SUBCONTRACTORS, AGENTS OR EMPLOYEES. THE CONTRACTOR MUST ENSURE THAT THE CONDITIONS OF ALL PERMITS, SPECIFICATIONS AND REGULATIONS OF FEDERAL, STATE, AND LOCAL REGULATIONS ARE STRICTLY ENFORCED. THE CONTRACTOR IS ALSO RESPONSIBLE FOR ASPECTS OF ON-SITE SAFETY INCLUDING ANY DAMAGE TO EXISTING STRUCTURES.
- ALL DISTURBED AREAS SHALL BE REPLACED IN KIND UNLESS OTHERWISE SHOWN.
- THE SITE IS TO BE SERVED BY PUBLIC WATER AND PUBLIC SEWER.
- THE DRAINAGE SYSTEM IS DESIGNED TO MEET THE CITY OF PROVIDENCE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS WITH THE USE OF A SURFACE INFILTRATION SYSTEM. THE STORMWATER MANAGEMENT SYSTEM MEETS THE RIDEM BEST MANAGEMENT PRACTICES. RIDEM STORMWATER & RIPPER APPROVAL SHALL BE OBTAINED PRIOR TO FINAL APPROVAL & ANY DEVELOPMENT.
- THERE ARE NO KNOWN EXISTING UNIQUE AND/OR HISTORICAL FEATURES WITHIN OR IMMEDIATELY ADJACENT TO THE SUBJECT PROPERTY.
- THE SITE CONSTRUCTION IS PROPOSED TO BE BUILT IN MULTIPLE PHASES.
 - PHASE 1 - BEFORE EARTHWORK
 - INSTALL SOIL EROSION & SEDIMENTATION CONTROL MEASURES
 - INSTALL PERIMETER SILT FENCE OR WADDE. CONSTRUCTION ENTRANCE & TEMPORARY CONSTRUCTION FENCE
 - ALL ACTIVITIES SHALL BE CONTAINED WITHIN THE EROSION CONTROL AREAS
 - PHASE 2 - DURING EARTHWORK
 - ROUGH GRADING (LESS THAN AN ACRE OF DISTURBANCE AT A TIME)
 - CONSTRUCT BUILDINGS
 - INSTALL UNDERGROUND UTILITIES, APPROVED STORMWATER BMP & PAVEMENT
 - INSPECT & MAINTAIN EROSION CONTROLS THROUGHOUT THE CONSTRUCTION PERIOD
 - PHASE 3 - FINAL STABILIZATION
 - COMPLETION, FINAL SITE INSPECTION AND GOOD HOUSEKEEPING CHECK
 - PROVIDE REQUIRED MAINTENANCE AND STABILIZATION TO SYSTEM AND LANDSCAPING
 - REMOVE EROSION CONTROLS AFTER VEGETATION IS ESTABLISHED AND THE SITE IS STABILIZED
- TEST HOLES SHOWN IN THIS PLAN SET WERE COMPLETED BY KEVIN FETZER (D-4028) FROM ECOTONES, INC.
- THE PROPOSED WATER QUALITY VOLUME (WQV) DISCHARGES TO THE GROUNDWATER, THE GROUNDWATER CLASSIFICATION IN THE AREA OF THE PROPOSED DEVELOPMENT AND BEST MANAGEMENT PRACTICE (BMP) IS GB.
- THE ULTIMATE WATERBODY THAT RECEIVES THE WATER QUALITY VOLUME (WQV) IS THE GROUNDWATER AND PROVIDENCE RIVER (WATERBODY ID: RH020202-018). THE PROVIDENCE RIVER HAS A TOTAL MAXIMUM DAILY LOAD (TMDL) FOR DISSOLVED OXYGEN, TOTAL NITROGEN & ECAL. COUPURE AND IS ON THE RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT'S (RIDEM) 303 (G) (I) LIST OF IMPAIRED WATERS. THE PROVIDENCE RIVER IS A CONSIDERED UNASSESSED FISHERY THAT IS NOT IN THE RIDEM SPECIAL RESOURCE PROTECTION PLAINS (SRPP).
- THE PROJECT AREA IS NOT WITHIN THE 100-YEAR FLOODPLAIN AS DEFINED BY RIDEM.
- THE PROJECT AREA IS NOT IDENTIFIED AS LAND USES WITH HIGHER POTENTIAL POLLUTANT LOAD (LUPHRL).
- THE PROJECT AREA IS IDENTIFIED AS A REDEVELOPMENT SITE.
- 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
 - "STORMWATER OPERATION AND MAINTENANCE PLAN (O&M)" THE O&M CONTAINS:
 - LONG TERM MAINTENANCE
 - LONG TERM POLLUTION PREVENTION

1. THE CONTRACTOR IS RESPONSIBLE FOR ALL SOIL EROSION AND SEDIMENT CONTROL ON SITE WHICH MUST BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE APPLICABLE REGULATIONS AND AUTHORITY HAVING JURISDICTION. THE CONTRACTOR IS TO NOTIFY THE DESIGN ENGINEER, THE DIRECTOR OF PUBLIC WORKS, THE CITY ENGINEER AND RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
- ALL EROSION CONTROL INCLUDING (BUT NOT LIMITED TO) ANY TEMPORARY SWALES, TEMPORARY SEDIMENT TRAPS, ETC. TO BE INSTALLED PER THE LATEST EDITION OF THE RHODE ISLAND SOIL EROSION AND SEDIMENTATION CONTROL (SESC) HANDBOOK AND THE SOIL EROSION CONTROL PLANS. NOTE: THE SOIL EROSION AND SEDIMENT CONTROL SHOWN ON THESE PLANS ARE THE MINIMUM QUANTITY / TYPE OF EROSION CONTROL DEVICES AND MATERIALS DEEMED REQUIRED BY WATERMAN ENGINEERING COMPANY TO MEET THE REQUIREMENTS OF THE SESC HANDBOOK, BUT IS CONSIDERED A GUIDE ONLY. ADDITIONAL MEASURES / ALTERNATE CONFIGURATIONS MAY BE REQUIRED IN ORDER TO MEET THE SESC HANDBOOK BASED ON FACTORS INCLUDING (BUT NOT LIMITED TO) SITE PARAMETERS, WEATHER, INSPECTIONS AND UNIQUE FEATURES. THE SESC WILL CONTINUE TO EVOLVE THROUGHOUT THE CONSTRUCTION PHASES. PURSUANT TO NOTE 1 ABOVE, SESC REMAINS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL SITE IS FULLY STABILIZED AND / OR SESC RESPONSIBILITIES ARE ASSUMED BY THE OWNER IN WRITING.
- TEMPORARY SWALES ARE TO BE USED TO CONTROL RUNOFF DURING DEMOLITION AND CONSTRUCTION OF THE PROPOSED SITE WORKS. TEMPORARY SWALES TO BE VEGETATED AFTER CONSTRUCTION. EROSION CONTROL MATS ARE TO BE INSTALLED, IF NECESSARY, TO PREVENT EROSION OF EXPOSED SOILS. TEMPORARY SWALES ARE TO BE CLEANED AND FINAL DESIGN, INCLUDING INSTALLATION OF ANY GRASS SWALES TO BE PER DESIGN PLANS.
- ONCE ANY SEDIMENT TRAPS ARE NO LONGER REQUIRED AND ALL TRIBUTARY AREAS HAVE BEEN STABILIZED, THE TEMPORARY SEDIMENTATION BASINS ARE TO BE CLEANED AND BROUGHT TO FINAL DESIGN GRADE.
- INLET PROTECTION IS TO BE INSTALLED ON ANY / ALL CATCH BASINS ONCE CONSTRUCTED.
- CONTRACTOR MAY MODIFY SEQUENCE OF CONSTRUCTION WITH APPROVAL FROM THE DESIGN ENGINEER AND OWNER.
- ANY TEMPORARY SEDIMENT BASINS MUST BE DEVELOPED USING A DEVICE THAT DISCHARGES WATER FROM THE TOP OF THE DRAINING CANAL. A SKIMMER MUST BE PROVIDED FOR EACH TEMPORARY SEDIMENTATION BASIN. SEE SEDIMENTATION BASIN DETAIL.
- IF CONCRETE TRUCKS ARE WASHED OUT, ALL WASHOUT MUST BE COMPLETED IN THE DESIGNATED CONCRETE WASHOUT AREA.

SOIL EROSION & SEDIMENTATION CONTROL NOTES:

- CONSTRUCTION TO COMMENCE SPRING 2023 OR UPON RECEIPT OF ALL NECESSARY APPROVALS.
- CONTRACTOR MUST COORDINATE WITH ALL OF THE APPROPRIATE UTILITY COMPANIES FOR AGREEMENTS TO SERVICE THE PROPOSED BUILDING. THIS MUST BE DONE PRIOR TO CONSTRUCTION. NO REPRESENTATIONS ARE MADE BY WATERMAN ENGINEERING COMPANY THAT UTILITY SERVICES ARE AVAILABLE.
- CONTRACTOR IS RESPONSIBLE FOR DETERMINING FINISH GRADING AND DRAINAGE AROUND THE BUILDING TO ENSURE SURFACE WATER AND / OR GROUNDWATER ARE DIRECTED AWAY FROM THE STRUCTURE.
- PRIOR TO START OF CONSTRUCTION, CONTRACTOR MUST VERIFY EXISTING PAVEMENT ELEVATIONS AT INTERFACE WITH PROPOSED PAVEMENTS AND EXISTING GROUND ELEVATIONS ADJACENT TO DRAINAGE OUTLETS TO ASSURE PROPER TRANSITIONS BETWEEN EXISTING AND PROPOSED FACILITIES. CONTRACTOR MUST NOTIFY DESIGN ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
- ALL PROPOSED UNDERGROUND UTILITIES SERVING THE SITE AND BUILDINGS TO BE COORDINATED WITH THE OWNER, ARCHITECT, AND ENGINEER PRIOR TO INSTALLATION.
- ANY NEW RETAINING WALLS AND STEEP SLOPES ARE SUBJECT TO FINAL STRUCTURAL DESIGN. WATERMAN ENGINEERING COMPANY IS NOT PROVIDING THE STRUCTURAL DESIGN OF THESE ITEMS. ANY NEW WALLS AND STEEP SLOPES ARE TO BE DESIGNED AND BUILT UNDER THE DIRECTION OF A RHODE ISLAND LICENSED PROFESSIONAL ENGINEER SUITABLY QUALIFIED IN GEOTECHNICAL ENGINEERING AND CERTIFIED TO THE OWNER PRIOR TO THE COMPLETION OF THE PROJECT. WATERMAN ENGINEERING COMPANY IS NOT PROVIDING FULL SPECIFICATION, GEOTECHNICAL ENGINEERING, STRUCTURAL ENGINEERING SERVICES, OR SUPERVISION AS PART OF THESE DRAWINGS.
- NO STOCKPILING OF MATERIAL TO BE LOCATED IN THE RIGHT OF WAY AND NO OPEN TRENCHED AREA TO BE LEFT OVERNIGHT.
- ALL LOAM IN DISTURBED AREAS IS TO BE STOCKPILED FOR FUTURE USE. ALL STOCKPILED LOAM MUST BE REUSED ON-SITE.
- ALL EXCESS SOIL, TREES, ROCKS, BOLLERS AND OTHER REFUSE, MUST BE DISCARDED OFF SITE IN AN ACCEPTABLE MANNER AT AN APPROVED LOCATION. STUMPS MUST BE GROUND ON SITE OR REMOVED.
- THE SITE WILL HAVE CONCRETE CURBING, SITE GRADING / CONTOURS SHOWN ON THE PLANS DO NOT NECESSARILY REFLECT THE APPROPRIATE CURBING REVEAL. CONTRACTOR TO INSTALL CURBING WITH APPROPRIATE REVEAL UNLESS OTHERWISE NOTED.
- NO STUMP DUMPS ARE PROPOSED ON SITE.

GRADING & UTILITY NOTES:

- CONSTRUCTION TO COMMENCE SPRING 2023 OR UPON RECEIPT OF ALL NECESSARY APPROVALS.
- CONTRACTOR MUST COORDINATE WITH ALL OF THE APPROPRIATE UTILITY COMPANIES FOR AGREEMENTS TO SERVICE THE PROPOSED BUILDING. THIS MUST BE DONE PRIOR TO CONSTRUCTION. NO REPRESENTATIONS ARE MADE BY WATERMAN ENGINEERING COMPANY THAT UTILITY SERVICES ARE AVAILABLE.
- CONTRACTOR IS RESPONSIBLE FOR DETERMINING FINISH GRADING AND DRAINAGE AROUND THE BUILDING TO ENSURE SURFACE WATER AND / OR GROUNDWATER ARE DIRECTED AWAY FROM THE STRUCTURE.
- PRIOR TO START OF CONSTRUCTION, CONTRACTOR MUST VERIFY EXISTING PAVEMENT ELEVATIONS AT INTERFACE WITH PROPOSED PAVEMENTS AND EXISTING GROUND ELEVATIONS ADJACENT TO DRAINAGE OUTLETS TO ASSURE PROPER TRANSITIONS BETWEEN EXISTING AND PROPOSED FACILITIES. CONTRACTOR MUST NOTIFY DESIGN ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
- ALL PROPOSED UNDERGROUND UTILITIES SERVING THE SITE AND BUILDINGS TO BE COORDINATED WITH THE OWNER, ARCHITECT, AND ENGINEER PRIOR TO INSTALLATION.
- ANY NEW RETAINING WALLS AND STEEP SLOPES ARE SUBJECT TO FINAL STRUCTURAL DESIGN. WATERMAN ENGINEERING COMPANY IS NOT PROVIDING THE STRUCTURAL DESIGN OF THESE ITEMS. ANY NEW WALLS AND STEEP SLOPES ARE TO BE DESIGNED AND BUILT UNDER THE DIRECTION OF A RHODE ISLAND LICENSED PROFESSIONAL ENGINEER SUITABLY QUALIFIED IN GEOTECHNICAL ENGINEERING AND CERTIFIED TO THE OWNER PRIOR TO THE COMPLETION OF THE PROJECT. WATERMAN ENGINEERING COMPANY IS NOT PROVIDING FULL SPECIFICATION, GEOTECHNICAL ENGINEERING, STRUCTURAL ENGINEERING SERVICES, OR SUPERVISION AS PART OF THESE DRAWINGS.
- NO STOCKPILING OF MATERIAL TO BE LOCATED IN THE RIGHT OF WAY AND NO OPEN TRENCHED AREA TO BE LEFT OVERNIGHT.
- ALL LOAM IN DISTURBED AREAS IS TO BE STOCKPILED FOR FUTURE USE. ALL STOCKPILED LOAM MUST BE REUSED ON-SITE.
- ALL EXCESS SOIL, TREES, ROCKS, BOLLERS AND OTHER REFUSE, MUST BE DISCARDED OFF SITE IN AN ACCEPTABLE MANNER AT AN APPROVED LOCATION. STUMPS MUST BE GROUND ON SITE OR REMOVED.
- THE SITE WILL HAVE CONCRETE CURBING, SITE GRADING / CONTOURS SHOWN ON THE PLANS DO NOT NECESSARILY REFLECT THE APPROPRIATE CURBING REVEAL. CONTRACTOR TO INSTALL CURBING WITH APPROPRIATE REVEAL UNLESS OTHERWISE NOTED.
- NO STUMP DUMPS ARE PROPOSED ON SITE.

ABBREVIATION LEGEND

AC	ACRES	OWH	OVERHEAD WIRE
ADA	AMERICAN WITH DISABILITY ACT	PC	POLYETHYLENE
AHU	AUTHORITY HAVING JURISDICTION	PE	PEDESTRIAN
A.P.	ASSASSOR PLAT	PK	MASCOPY NAL
B	BOTTOM	PL	PROPERTY LINE
BT	BOTTOM OF TESTICLE	PR	PROPOSED
BTM	BITUMINOUS	PVC	POLYVINYL CHLORIDE
CB	CATCH BASIN	RA	RAILROAD
C	CALCULATED	R&D	REMOVE & DISPOSE
(C)	CIRCUMFERENCES	RCP	REINFORCED CONCRETE PIPE
CA	CATCH BASIN	RET	RETAINING WALL
CA	CATCH BASIN	RHW	RHODE ISLAND HIGHWAY BOUND
(CA)	CATCH BASIN	RL	ROOF LEAD
CLIP	CONCRETE LINED DUCTILE IRON PIPE	ROW	RIGHT-OF-WAY
CL	CLEANOUT	S	SLOPE
CO	CLEANOUT	SC	SEWER CLEANOUT
CO	CLEANOUT	SD	SUBDRAIN
CONC	CONCRETE	SE	SEED
COV	COVER	SFC	SEWER FORCE MAIN
DGP	DESIGN POINT	SFL	STATE FREEWAY LINE
DOB	DOUBLE CATCH BASIN	SFM	SEWER FORCE MAIN
DI	DRAINAGE MANHOLE	SLB	SLAB ON GRADE ELEVATION
DMH	DRAINAGE MANHOLE	SHL	STATE HIGHWAY LINE
DO	DRAINAGE MANHOLE	SHR	STATE HIGHWAY RIGHT
DP	DETENTION POND	SMH	SEWER MANHOLE
ELEV	ELEVATION	SMP	SAND FILTER
ESC	EDGE OF PAVEMENT	SS	SIDE SLOPE
ESC	EROSION & SEDIMENT CONTROL	ST	STATION
ET	FLARED END SECTION	STY	STORY
FE, OR FES	FINISHED FLOOR ELEVATION	TC	TOP OF CURB
FFE (AND)	FINISHED FLOOR ELEVATION	TD	TRENCH DRAIN
FS	GROUND SHOT	TF	TOP OF FOUNDATION
GS	GARAGE SLAB ELEVATION	TH	TEST HOLE
GSE	GROUND WATER TABLE	TRANS	TRANSITION
HW	HEADWALL	TW	TOP OF WALL
HC	HIGH CAPACITY CATCH BASIN GRATE	UP	UNFINISHED GRADE AT TOP OF WALL
HDP	HIGH DENSITY POLYETHYLENE	US	UTILITY
HDPE	HDPE DRAIN	U/S	UNDERGROUND DETENTION SYSTEM
IN/ OR IN/	INFILTRATION POND	U/S	UNDERGROUND INFILTRATION SYSTEM
IP	INFILTRATION POND	UP	UTILITY POLE
LP	LINEAR FEET	WF	WOOD FRAME
LP	LIGHT POLE	WDE	WALK OUT ELEVATION
LF	LINEAR FEET	WO	WATER QUALITY
NF	NOT/ OR FORMERLY	%	PLUS OR MINUS

DEMOLITION NOTES:

- CONTRACTOR TO OBTAIN ALL FEDERAL, STATE AND MUNICIPAL APPROVALS PRIOR TO THE START OF CONSTRUCTION.
- CONTRACTOR TO PERFORM DAILY SWEEPING AT CONSTRUCTION ENTRANCES DURING DEMOLITION AND CONSTRUCTION TO MINIMIZE SEDIMENTS ON EXTERNAL STREETS.
- ANY EXISTING BUILDINGS AND PROPERTY PROPOSED TO REMAIN WHICH ARE DAMAGED BY THE CONTRACTOR MUST BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR IS RESPONSIBLE FOR REMOVING AND LEGALLY DISPOSING (RAD) ALL MATERIALS INDICATED ON THE PLANS UNLESS SPECIFIED OTHERWISE HEREIN. RAD MATERIALS MUST INCLUDE BUT ARE NOT LIMITED TO PAVEMENT, GRAVEL, CATCH BASINS, MANHOLES, GRATES/FRAMES/COVERS, AND ANY EXCESS SOIL THAT IS NOT INCORPORATED INTO THE WORK.
- IN ADDITION TO THOSE AREAS SPECIFICALLY DESIGNATED ON THE PLANS, ALL DISTURBED AREAS INCLUDING THE CONTRACTOR'S STOCKPILE AND STAGING AREAS WITHIN THE LIMIT OF WORK MUST BE RESTORED TO MATCH THE DESIGN PLANS.
- CONTRACTOR MUST DOCUMENT LOCATION OF ALL SUBSURFACE UTILITIES REMAINING IN PLACE AFTER DEMOLITION (ACTIVE AND INACTIVE/ABANDONED). LOCATION MUST BE DOCUMENTED BY FIELD SURVEY OR SWING TIES. COPIES OF LOCATION DOCUMENTATION MUST BE PROVIDED TO THE OWNER FOLLOWING COMPLETION OF DEMOLITION AND PRIOR TO START OF NEW CONSTRUCTION. A MARKER MUST BE INSTALLED TO FINISHED GROUND AT ALL INSTALLED CAPS / PIPES. THE MARKER CAN BE A POST IN CONSTRUCTION AREAS OR PAINTED ON A PERMANENT SURFACE.

TRAFFIC NOTES:

- ALL TRAFFIC CONTROL MUST CONFORM TO THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) CURRENT EDITIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE AND PROTECTION OF PEDESTRIAN AND VEHICULAR TRAFFIC INCLUDING POLICE PROTECTION. ALL TEMPORARY CONSTRUCTION SIGNS, BARRICADES AND LANE CLOSURES SHALL BE IN CONFORMANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) CURRENT EDITIONS.
- TEMPORARY CONSTRUCTION SIGNS AND ALL APPLICABLE TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF WORK IN ANY AREA OPEN TO TRAFFIC. TEMPORARY TRAFFIC SIGNS MUST BE MOUNTED ON RIDOT APPROVED SUPPORTS AND MUST BE REMOVED OR COVERED WHEN NOT APPLICABLE.
- THE PRIVATE VEHICLES OF CONSTRUCTION WORKERS WILL NOT BE PERKED IN THE ROADWAY RIGHT-OF-WAY.
- DURING CONSTRUCTION, TRAFFIC CONES ARE TO BE USED FOR SEPARATION OF ACTIVE TRAFFIC FROM WORK ZONE PER MUTCD REQUIREMENTS.
- DURING CONSTRUCTION, FLAGGERS MUST BE EMPLOYED TO ENSURE SAFETY FOR INTERACTION OF CONSTRUCTION VEHICLES AND ACTIVE TRAFFIC.
- ALL SIGNS, FLAGGERS, TRAFFIC CONTROL DEVICES, AND TEMPORARY TRAFFIC ZONE ACTIVITIES MUST MEET THE REQUIREMENTS OF THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) CURRENT EDITIONS.

AS-BUILT NOTES:

- ALL NEW COMPONENTS OF THE DRAINAGE, SEWER, AND WATER SYSTEMS MUST BE AS-BUILT PRIOR TO COVERING. ENGINEER TO BE NOTIFIED PRIOR TO COVERING TO SURVEY AS-BUILT LOCATIONS. ENGINEER WILL NOT ACCEPT FIELD MEASUREMENTS FROM THE SITE CONTRACTOR.
- ALL NEW WORK TO BE DONE WITHIN THE STATE RIGHT OF WAY MUST CONFORM TO RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AMENDED MARCH 2018 WITH ALL REVISIONS AND ADDENDA. STANDARD DETAILS FOR THIS WORK ARE RHODE ISLAND STANDARD DETAILS DATED JUNE 21, 2019 WITH ALL REVISIONS.
- ALL TRAFFIC CONTROL MUST CONFORM TO THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) CURRENT EDITIONS.

VEHICLE FUELING / MAINTENANCE NOTES:

- DUE TO THE COLETTA GROUP LLC'S COMMITMENT TO PRESERVING NATURE, ALL VEHICLE FUELING AND MAINTENANCE IS TO TAKE PLACE OFF-SITE. DRIP PANS AND SPILL KITS MUST BE KEPT ON SITE IN THE EVENT OF A VEHICLE LEAK. AT A MINIMUM, THE FOLLOWING MUST BE FOLLOWED:
 - VEHICLE FUELING SHALL NOT TAKE PLACE WITHIN REGULATED WETLANDS OR BUFFER ZONE AREAS, OR WITHIN 50 FEET OF THE STORM DRAIN SYSTEM. DESIGNATED AREAS SHALL BE DEPICTED ON THE SESC SITE PLANS, OR SHALL BE APPROVED BY THE SITE OWNER.
 - VEHICLE MAINTENANCE AND WASHING SHALL OCCUR OFF-SITE, OR IN DESIGNATED AREAS DEPICTED ON THE SESC SITE PLAN OR APPROVED BY THE SITE OWNER. MAINTENANCE OR WASHING AREAS SHALL NOT BE WITHIN REGULATED WETLANDS OR BUFFER ZONE AREAS, OR WITHIN 50 FEET OF THE STORM DRAIN SYSTEM. MAINTENANCE AREAS SHALL BE CLEARLY DESIGNATED, AND BARRIERS SHALL BE USED AROUND THE PERIMETER OF THE MAINTENANCE AREA TO PREVENT STORMWATER CONTAMINATION.
 - CONSTRUCTION VEHICLES SHALL BE INSPECTED FREQUENTLY FOR LEAKS. REPAIRS SHALL TAKE PLACE IMMEDIATELY. DISPOSAL OF ALL USED OIL, ANTI-FREEZE, SOLVENTS AND OTHER AUTOMOTIVE-RELATED CHEMICALS SHALL BE ACCORDING TO APPLICABLE REGULATIONS. AT NO TIME SHALL ANY MATERIAL BE WASHED DOWN THE STORM DRAIN OR IN TO ANY ENVIRONMENTALLY SENSITIVE AREA.
 - WORKERS SHOULD BE TRAINED IN THE EVENT OF A VEHICLE SPILL. EQUIPMENT AND MATERIALS FOR CLEANUP MUST BE READILY ACCESSIBLE AND MARKED OUT CLEARLY SO WORKERS CAN FOLLOW PROCEDURES QUICKLY AND EFFECTIVELY.

PERMITTING NOTES:

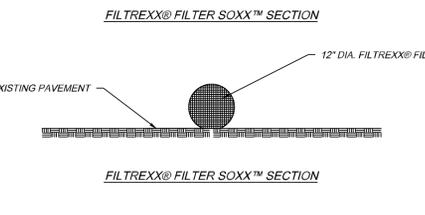
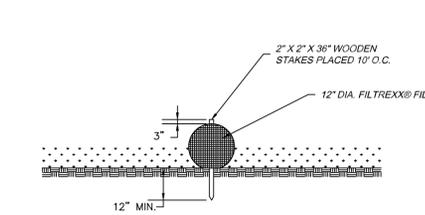
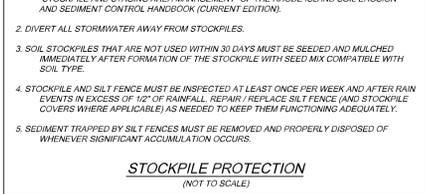
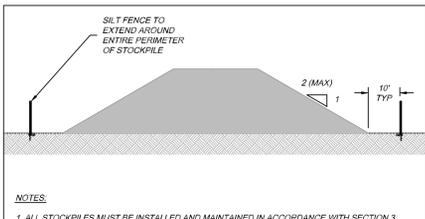
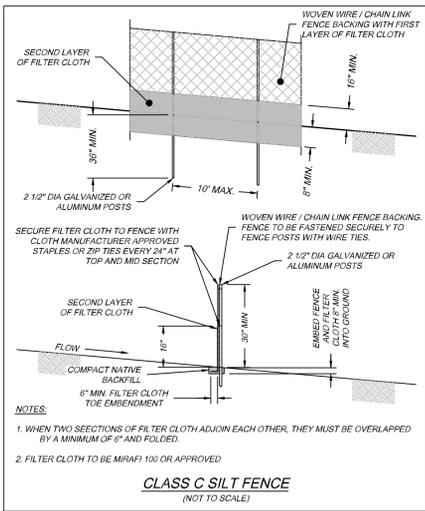
- THERE ARE NO WETLANDS WITHIN AT LEAST 200' OF THE SITE.
- PROPOSED IMPROVEMENTS WILL RESULT IN MORE THAN 1 ACRE OF SOIL DISTURBANCE & AN INFILTRATION SYSTEM IS PROPOSED. A RIDEM POLLUTANT DISCHARGE ELIMINATION SYSTEM (RIDDES) PERMIT & STORMWATER PERMIT ARE REQUIRED.

LAYOUT & MATERIAL NOTES:

- THE LAYOUT SHOWN REPRESENTS A GRAPHICAL DESIGN, AND PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL ENGAGE A PROFESSIONAL LAND SURVEYOR (PLS) REGISTERED IN THE STATE TO SET AND VERIFY ALL LINES AND GRADES. ALL EXISTING UTILITY LOCATIONS AND ELEVATIONS ARE TO BE CONFIRMED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY ITEM FOUND WHICH DOES NOT MATCH THE PLANS MUST BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO CONSTRUCTION FOR REVIEW. NO WORK SHALL PROCEED UNTIL AUTHORIZED BY THE ENGINEER.
- FOR ALL EXCAVATION AND PLACEMENT OF FILL, THE CONTRACTOR SHALL PERFORM THE WORK IN FULL COMPLIANCE WITH THE STATE OF RHODE ISLAND STANDARD SPECIFICATION SECTION 202.
- DIMENSIONS ARE FROM THE FACE OF CURB, FACE OF BUILDING, FACE OF WALL, AND CENTERLINE OF PAVEMENT MARKINGS, UNLESS OTHERWISE NOTED.
- CURBING IS TO BE GRANITE IN CITY OF PROVIDENCE RIGHT OF WAY AND PRECAST CONCRETE ON SITE.
- SIDEWALK IS TO BE CONCRETE.
- 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 MUST REFER TO THE DETAIL SHEET DIMENSIONS, MANUFACTURER'S LITERATURE, SHOP DRAWINGS AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.
- SEE ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS AND DETAILS CONTIGUOUS TO THE BUILDING, INCLUDING SIDEWALKS,

L. ROBERT SMITH
 No. 3536
 11/17/2022
 REGISTERED PROFESSIONAL ENGINEER

* SIGNATURES MUST BE IN BLUE INK TO CONSTITUTE AN ORIGINAL PLAN

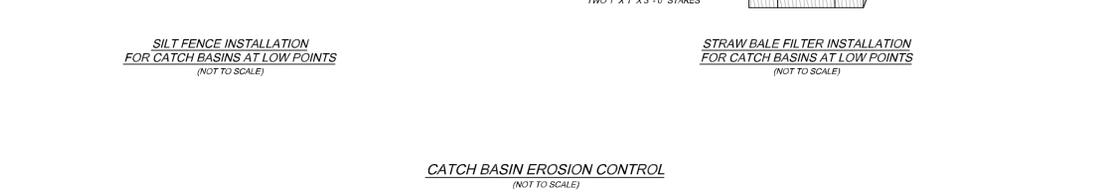
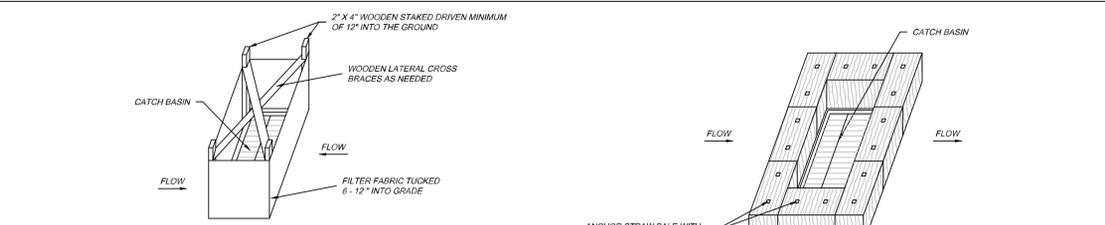
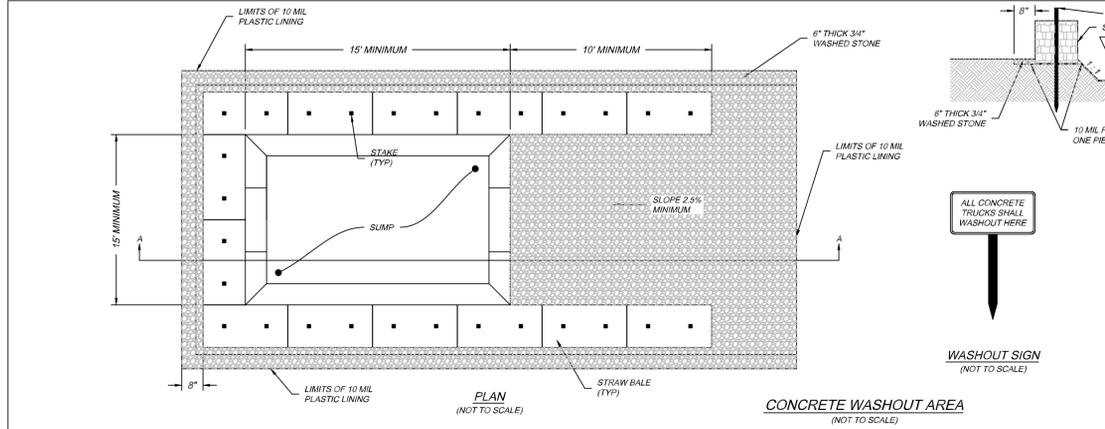


NOTES:

- FILTREXX FILTER SOXX MAY BE USED IN LIEU OF SILT FENCE.
- CONTRACTOR IS RESPONSIBLE TO BECOME FAMILIAR WITH THE FILTREXX PRODUCTS AND COORDINATE INSTALLATION SCHEDULES AND METHODS WITH ENGINEER PRIOR TO PLACEMENT.
- ALL MATERIAL SHALL MEET FILTREXX SPECIFICATIONS.
- COMPOST MATERIAL TO BE DISPERSED ON SITE AS DETERMINED BY ENGINEER.

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THESE DRAWINGS ARE THE PROPERTY OF THE ENGINEER/SURVEYOR AND HAVE BEEN PREPARED FOR THE OWNER. FOR THIS PROJECT AT THIS SITE AND ARE NOT TO BE USED FOR ANY OTHER PURPOSE. LOCATION OR OWNER WITHOUT WRITTEN CONSENT OF THIS OWNER OR ONE OF ITS DIRECTORS.



SEEDING FOR PERMANENT VEGETATIVE COVER

PURPOSE:

- TO PERMANENTLY STABILIZE DISTURBED OR ERODIBLE SOILS WITH VEGETATION COVER.
- TO PREVENT THE SEPARATION AND TRANSPORT OF SEDIMENT BY WATER, WIND AND/OR GRAVITY.

APPLICABILITY:

- ON SITES WITH DISTURBED OR ERODIBLE SOILS VEGETATION REMOVED, TOPSOIL (DISTURBED OR SOIL COMPACTED), OR SITES WHERE THE SUSPENSION OF WORK IS EXPECTED TO EXCEED ONE YEAR.
- ON SITES WHERE SLOPES LESS THAN 10% FEEL LOW AND 2:1 OR FLATTER HAVE BEEN DISTURBED.
- FOLLOWING SOIL PREPARATION AND TOPSOILING AS REQUIRED IN THE RHODE ISLAND SOIL EROSION & SEDIMENT CONTROL (SESC) HANDBOOK (LATEST EDITION).
- NOTE: FOR REBROCK CUTS OR PAGES.

NOTE: FOR SLOPES STEEPER THAN 2:1, SEE THE RHODE ISLAND SOIL EROSION & SEDIMENT CONTROL (SESC) HANDBOOK (LATEST EDITION) SOIL STABILIZATION METHOD.

NOTE: APPROPRIATE COASTAL SPECIES MUST BE USED IN COASTAL SETTINGS.

INSTALLATION REQUIREMENTS:

INTENDED USE:

- THE ULTIMATE INTENDED USE AND MAINTENANCE REQUIREMENTS OF THE AREA SHALL BE CONSIDERED WHEN CHOOSING A PERMANENT SEED MIXTURE IDENTIFIED IN THE RHODE ISLAND SOIL EROSION & SEDIMENT CONTROL (SESC) HANDBOOK (LATEST EDITION) SECTION FOUR: EROSION CONTROL MEASURES: SEEDING FOR PERMANENT VEGETATIVE COVER, FIGURE 2.
- MAINTENANCE MAY BE CONSIDERED AS ACTIVE (AREA TO BE MOVED) AND PASSIVE (AREA NOT TO BE MOVED). ACTIVE MAINTENANCE WILL REQUIRE SOME LEVEL OF MOWING DEPENDENT ON THE INTENDED USE WHILE PASSIVE MAINTENANCE WILL REQUIRE NO FURTHER MOWING AND LITTLE, IF ANY MAINTENANCE.

TIME OF THE YEAR:

- FOR NONNATIVE SPECIES THE RECOMMENDED SEEDING DATES ARE APRIL 1 THROUGH JUNE 15 AND AUGUST 15 THROUGH SEPTEMBER 30. THE FINAL SEEDING DATE MAY BE EXTENDED 15 DAYS IN NONPORT COUNTY.
- FOR NATIVE SPECIES SEEDING DATES FOR BEST RESULTS ARE AUGUST TO SEPTEMBER. SELECTING SEED MATERIALS AND TIMING OF SEEDING IS CRITICAL. IF NATIVE SPECIES ARE TO BE SELECTED AND TIME OF SEEDING IS NOT IDEAL FOR SOODING, THEN TEMPORARY SEEDING MAY BE DONE TO PROTECT THE SITE UNTIL OPTIMUM SEEDING DATES CAN BE REACHED.

SITE PREPARATION:

- INSTALL NEEDED EROSION CONTROL MEASURES.
- THE SITES INTENDED USE, IN CONJUNCTION WITH THE EXISTING SOIL FERTILITY, WILL DETERMINE IF TOPSOIL IS NEEDED. THE LOWER THE SITE IS IN NATURAL FERTILITY AND TEXTURE THE GREATER THE NEED FOR TOPSOIL.
- GRADE AS NEEDED.
- PREPARE THE SITE IN ACCORDANCE WITH SOIL PREPARATION AND TOPSOILING AS REQUIRED IN THE RHODE ISLAND SOIL EROSION & SEDIMENT CONTROL (SESC) HANDBOOK (LATEST EDITION).
- PERMANENT SEEDING SHOULD NOT OCCUR ON SLOPES STEEPER THAN 2:1. SLOPES STEEPER THAN 2:1 MAY DEVELOP SHALLOW OR DEEP SURFACE FAILURES UNDER SATURATED CONDITIONS THEREFORE, TO ENSURE SOIL STABILITY A SITE INVESTIGATION IS NECESSARY TO DETERMINE IF OTHER MEASURES (E.G. BROWNS, STRUCTURAL) ARE NEEDED PRIOR TO SEEDING.

DUST CONTROL NOTES

ON AN AS-NEEDED BASIS OR AS DIRECTED BY RIDEM OR OWNER, THE CONTRACTOR SHALL UTILIZE THE FOLLOWING METHOD TO CONTROL DUST:

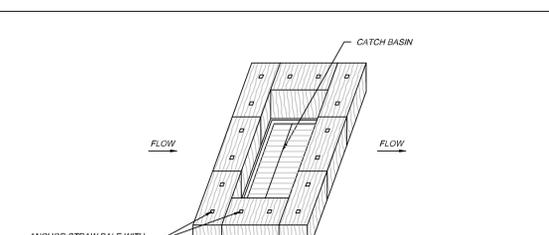
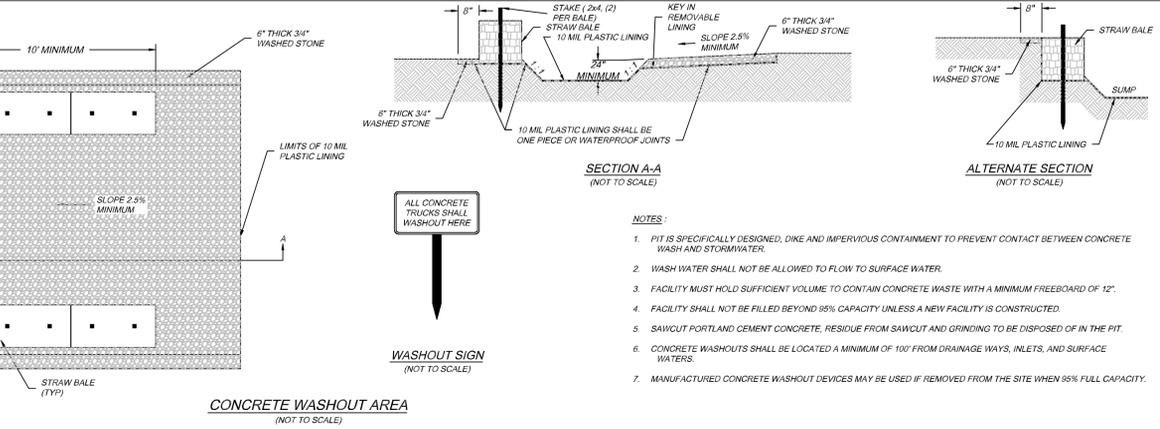
- THE EXPOSED SOIL SURFACE SHOULD BE MOISTENED PERIODICALLY WITH ADEQUATE WATER TO CONTROL DUST.
- THE METHODS SHOULD BE REPEATED AS NEEDED, AND SPECIAL ATTENTION MUST BE GIVEN TO THE ACCESS DRIVES.

INSPECTION/MAINTENANCE NOTES

- PRIOR TO COMMENCING GRUBBING OPERATIONS AND EARTHWORK, FILTERSOXX AND COMBINED HAYBALE/SILT FENCE SHALL BE PLACED INSIDE SAWCUT EDGE TO PREVENT SEDIMENT FROM ENTERING EXISTING ROADWAY DRAINAGE SYSTEM, WETLAND AREAS AND ABUTTING PROPERTIES.
- EXTREME CARE SHALL BE EXERCISED SO AS TO PREVENT ANY UNSUITABLE MATERIAL FROM ENTERING THE DRAINAGE SYSTEM.
- ALL DISTURBED AREAS WHICH BECOME SUBJECT TO EROSION TENDENCIES WHETHER THEY BE NEWLY FILLED OR EXCAVATED SHALL RECEIVE SLOPE PROTECTION - SUCH AS RIP-RAP.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING PERIODS OF RAINFALL.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EROSION CONTROL MAINTENANCE AND SHALL INSPECT/REPLACE DAILY DURING CONSTRUCTION, FOLLOWING RAINFALL AND WEEKLY DURING NON-CONSTRUCTION PERIODS.

GENERAL PROJECT WIDE SESC NOTES

- CONTRACTOR SHALL INSTALL TEMPORARY MEASURES SUCH AS: FIBER MATTING, CRUSHED STONE, HAY OR STRAW IN AREAS WHERE SLOPES OR STABILIZATION HAS FAILED.
- IF SEDIMENT IS TRACKED OR ERODED INTO THE ROADWAY, THE CONTRACTOR WILL BE REQUIRED TO INSTALL SILT SACK OR APPROVED EQUAL UNDER EXISTING CATCH BASIN GRATES REMOVED AFTER CONSTRUCTION.
- FILTER SOXX (OR SILT FENCE OR STAKED HAYBALES) SHALL BE INSTALLED AROUND THE PERIMETER OF THE AREA TO BE DISTURBED BY CONSTRUCTION. ADDITIONAL APPLICATIONS OF THESE CONTROL MEASURES MAY BE REQUIRED DURING THE CONSTRUCTION PROCESS. THE CONTRACTOR SHALL INSPECT THE SITE AT A MINIMUM OF ONCE PER WEEK OR WITHIN 24 HOURS AFTER A STORM EVENT.
- IF EROSION OR EROSION TENDENCIES ARE APPARENT ON THE SITE, THE CONTRACTOR IS RESPONSIBLE TO INSTALL ADDITIONAL CONSTRUCTION BMP'S SUCH AS SAND BAGS AS RIDEM OR ENGINEER DURING CONSTRUCTION.



SEEDING PREPARATION:

- LOOSEN THE SOIL TO A DEPTH OF THREE TO FOUR INCHES WITH A SLIGHTLY ROUGH SURFACE. THIS PREPARATION MAY BE ACCOMPLISHED BY RAKING, DISCING, DRAGGING A SECTION OF CHAIN LINK FENCE AND/OR TRAVELING THE AREA WITH TRACKED EQUIPMENT. OVER COMPACTION SHOULD BE AVOIDED AND TRACKED EQUIPMENT CLEAR MARKS SHALL BE PERPENDICULAR TO THE ANTICIPATED DIRECTION OF SURFACE FLOW.
- APPLY TOPSOIL, IF NECESSARY, IN ACCORDANCE WITH SOIL PREPARATION AND TOPSOILING AS REQUIRED IN THE RHODE ISLAND SOIL EROSION & SEDIMENT CONTROL (SESC) HANDBOOK (LATEST EDITION).

SOIL AMENDMENTS:

- APPLY LIMESTONE FERTILIZER ACCORDING TO SOIL TESTS SUCH AS THOSE OFFERED BY SOIL TESTING LABORATORIES AT THE UNIVERSITY OF CONNECTICUT AND THE UNIVERSITY OF MASSACHUSETTS OR OTHER RELIABLE SOURCES.
- IN GENERAL, IT IS DESIRABLE TO MINIMIZE THE USE OF FERTILIZERS IN AREAS ADJACENT TO ALL WETLANDS AND SURFACE WATERS SO AS TO PREVENT THE EUTROPHICATION OF THESE WATERS.
- IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHENE TIME IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE NOT TO EXCEED 1500 POUNDS PER ACRE OR 30 POUNDS PER 1,000 SQUARE FEET USING FERTILIZER OF THE FOLLOWING:
 - 10 PERCENT AVAILABLE NITROGEN (N)
 - 20 PERCENT AVAILABLE PHOSPHORIC ACID (P)
 - 20 PERCENT AVAILABLE POTASSIUM (K)
- A 1/4" RANGE OF 6:2 TO 1:1 IS OPTIMAL FOR PLANT GROWTH OF MOST GRASS SPECIES.
- APPLY GROUND LIMESTONE EQUIVALENT TO 50 PERCENT CALCIUM PLUS MAGNESIUM OXIDE USING RATES GIVEN IN RHODE ISLAND SOIL EROSION & SEDIMENT CONTROL (SESC) HANDBOOK (LATEST EDITION) SECTION FOUR: EROSION CONTROL MEASURES: SEEDING FOR PERMANENT VEGETATIVE COVER, FIGURE 2.
- WITH THE EXCEPTION OF HYDROSEEDING, WORK LIME AND FERTILIZER INTO THE SOIL AS PRACTICAL, TO A DEPTH OF 4 INCHES WITH A DISC, SPRING TOTH HAYRACK OR OTHER SUITABLE EQUIPMENT. THE DUAL HANDLING OR DISCING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM FINE SEEDBED IS PREPARED. ALL BUT CLAY OR SILTY SOILS AND COARSE SANDS SHOULD BE ROLLED TO FIRM THE SEEDBED WHERE FEASIBLE.
- REMOVE FROM THE SURFACE ALL STONES TWO INCHES OR LARGER IN ANY DIMENSION. REMOVE ALL OTHER DEBRIS, SUCH AS WIRE, CABLE, TREE ROOTS, PIECES OF CONCRETE, CLODS, OR OTHER UNSUITABLE MATERIAL.
- AREAS NOT TO BE MOVED CAN BE TRACKED WITH CLEANED EARTHWORKING EQUIPMENT PERPENDICULAR TO THE SLOPE (SEE RHODE ISLAND SOIL EROSION & SEDIMENT CONTROL (SESC) HANDBOOK (LATEST EDITION) SECTION FOUR: SURFACE ROUGHENING).
- IN AREAS WHERE TEMPORARY EROSION CONTROL MEASURES ARE TO BE USED THE SEEDBED SHALL BE PREPARED IN ACCORDANCE WITH THE BULKER'S MANUFACTURER'S RECOMMENDATIONS.
- INSPECT SEEDBED JUST BEFORE SEEDING. IF SOIL IS COMPACTED, CRUSTED OR HARDENED, SCARPIFY THE AREA PRIOR TO SEEDING.

TIMING:

- SEED WITH PERMANENT SEED MIXTURE WITHIN SEVEN DAYS FOLLOWING THE ESTABLISHMENT OF FINAL GRADE OR WHEN GRADING WORK WITHIN THE LIMIT OF DISTURBANCE IS TO BE SUSPENDED FOR A PERIOD OF MORE THAN ONE YEAR.

SEEDING:

- APPLY SELECTED SEED AT RATES PROVIDED IN THE RHODE ISLAND SOIL EROSION & SEDIMENT CONTROL (SESC) HANDBOOK (LATEST EDITION) SECTION FOUR: EROSION CONTROL MEASURES: SEEDING FOR PERMANENT VEGETATIVE COVER, FIGURE 2. HYDROSEEDING IS NOT RECOMMENDED. WHERE SLOPES EXCEEDING 2:1 ARE UNAVAILABLE, SUPPLEMENTAL MULCH, MATTING AND/OR STRUCTURAL EROSION CONTROLS ARE RECOMMENDED.
- LIME SHOULD BE APPLIED AND THOROUGHLY INCORPORATED INTO THE SOIL PRIOR TO SEEDING. FERTILIZER MAY BE APPLIED SIMULTANEOUSLY WITH THE SEED. USE OF STRAW MULCH HELD WITH ADHESIVE MATERIALS OR 500 LBS PER ACRE OF 8000 FIBER MULCH IS RECOMMENDED FOR PROTECTION FROM SOIL EROSION. WHILE WOOD MULCH IS RECOMMENDED, THE RECOMMENDED RATE FOR HYDROMULCH IS 1,500 LBS PER ACRE ON FLATS AND 3,000 LBS PER ACRE ON SLOPES. SEEDING RATES MUST BE INCREASED 10% WHEN HYDROSEEDING.
- APPLY MULCH ACCORDING TO THE RHODE ISLAND SOIL EROSION & SEDIMENT CONTROL (SESC) HANDBOOK (LATEST EDITION) SECTION FOUR: EROSION CONTROL MEASURES: MULCHING.
- IF SEEDING CANNOT BE DONE WITHIN THE SEEDING DATES, USE THE RHODE ISLAND SOIL EROSION & SEDIMENT CONTROL (SESC) HANDBOOK (LATEST EDITION) SECTION FOUR: EROSION CONTROL MEASURES: MULCHING MEASURE TO PROTECT THE SITE AND DELAY SEEDING UNTIL THE NEXT RECOMMENDED SEEDING PERIOD.

IRIGATION:

- IRIGATION WATERING MAY BE NECESSARY TO ESTABLISH NEWLY SEEDED AREAS SHOULD DROUGHT CONDITIONS OCCUR AFTER EMERGENCE OF SEED. IRIGATION WATERING SHOULD NOT EXCEED THE APPLICATION RATE OF THE SOIL AND RESULT IN EROSION.

INSPECTION, MAINTENANCE & REMOVAL REQUIREMENTS:

- LIME ACCORDING TO A SOIL TEST OR AT A MINIMUM EVERY 2 TO 3 YEARS USING A RATE OF ONE TON PER ACRE (50 LBS PER 1,000 SQ. FT.) WHERE GRASSES PREDOMINATE. FERTILIZE IF SO INDICATED BY A SOIL TEST. CUSTOMARY APPLICATIONS ARE BIENNIAL BROADCASTS OF 300 LBS OF 10-10-10 NUTRIENT FERTILIZER PER ACRE (12.5 LBS PER 1,000 SQ. FT.) AT LEAST 30% OF THE FERTILIZER'S AVAILABLE NITROGEN MUST BE IN A SLOW-RELEASE FORM.
- WHERE LEANES PREDOMINATE, FERTILIZE ACCORDING TO A SOIL TEST OR EVERY THREE YEARS, BROADCAST 300 LBS OF 0-20-20 OR EQUIVALENT FERTILIZER (2 LBS PER 1,000 SQ. FT.).
- PERMANENT VEGETATIVE COVER SHALL NOT BE CONSIDERED ESTABLISHED UNTIL GROUND COVER (APPROXIMATELY 95% VEGETATIVE SURFACE COVER) CONTROLS SOIL EROSION AND WITHSTANDS SEVERE WEATHER CONDITIONS.

SEEDING PREPARATION:

- LOOSEN THE SOIL TO A DEPTH OF THREE TO FOUR INCHES WITH A SLIGHTLY ROUGH SURFACE. THIS PREPARATION MAY BE ACCOMPLISHED BY RAKING, DISCING, DRAGGING A SECTION OF CHAIN LINK FENCE AND/OR TRAVELING THE AREA WITH TRACKED EQUIPMENT. OVER COMPACTION SHOULD BE AVOIDED AND TRACKED EQUIPMENT CLEAR MARKS SHALL BE PERPENDICULAR TO THE ANTICIPATED DIRECTION OF SURFACE FLOW.
- APPLY TOPSOIL, IF NECESSARY, IN ACCORDANCE WITH SOIL PREPARATION AND TOPSOILING AS REQUIRED IN THE RHODE ISLAND SOIL EROSION & SEDIMENT CONTROL (SESC) HANDBOOK (LATEST EDITION).

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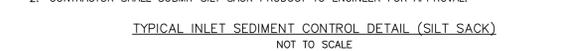
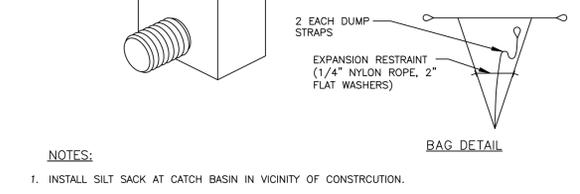
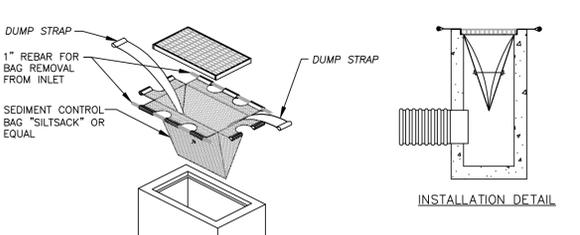
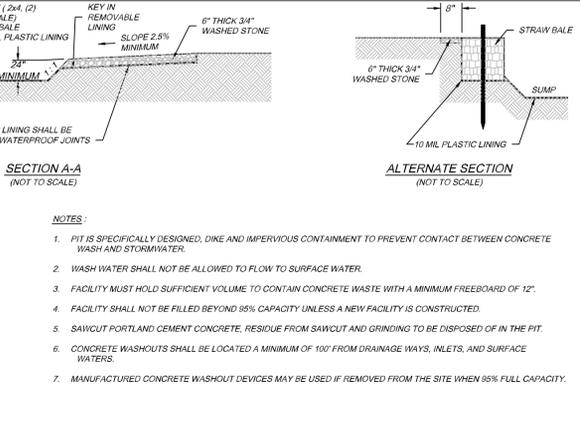
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- SEED WITH PERMANENT SEED MIXTURE WITHIN SEVEN DAYS FOLLOWING THE ESTABLISHMENT OF FINAL GRADE OR WHEN GRADING WORK WITHIN THE LIMIT OF DISTURBANCE IS TO BE SUSPENDED FOR A PERIOD OF MORE THAN ONE YEAR.

SEEDING:

- APPLY SELECTED SEED AT RATES PROVIDED IN THE RHODE ISLAND SOIL EROSION & SEDIMENT CONTROL (SESC) HANDBOOK (LATEST EDITION) SECTION FOUR: EROSION CONTROL MEASURES: SEEDING FOR PERMANENT VEGETATIVE COVER, FIGURE 2. HYDROSEEDING IS NOT RECOMMENDED. WHERE SLOPES EXCEEDING 2:1 ARE UNAVAILABLE, SUPPLEMENTAL MULCH, MATTING AND/OR STRUCTURAL EROSION CONTROLS ARE RECOMMENDED.
- LIME SHOULD BE APPLIED AND THOROUGHLY INCORPORATED INTO THE SOIL PRIOR TO SEEDING. FERTILIZER MAY BE APPLIED SIMULTANEOUSLY WITH THE SEED. USE OF STRAW MULCH HELD WITH ADHESIVE MATERIALS OR 500 LBS PER ACRE OF 8000 FIBER MULCH IS RECOMMENDED FOR PROTECTION FROM SOIL EROSION. WHILE WOOD MULCH IS RECOMMENDED, THE RECOMMENDED RATE FOR HYDROMULCH IS 1,500 LBS PER ACRE ON FLATS AND 3,000 LBS PER ACRE ON SLOPES. SEEDING RATES MUST BE INCREASED 10% WHEN HYDROSEEDING.
- APPLY MULCH ACCORDING TO THE RHODE ISLAND SOIL EROSION & SEDIMENT CONTROL (SESC) HANDBOOK (LATEST EDITION) SECTION FOUR: EROSION CONTROL MEASURES: MULCHING.
- IF SEEDING CANNOT BE DONE WITHIN THE SEEDING DATES, USE THE RHODE ISLAND SOIL EROSION & SEDIMENT CONTROL (SESC) HANDBOOK (LATEST EDITION) SECTION FOUR: EROSION CONTROL MEASURES: MULCHING MEASURE TO PROTECT THE SITE AND DELAY SEEDING UNTIL THE NEXT RECOMMENDED SEEDING PERIOD.



CONTRACT TYPE AND AMOUNT OF INOCULANT:

- ONLY USE SEED THAT IS LABELED IN ACCORDANCE WITH THE PROVISIONS OF THE RHODE ISLAND SEED ACT OF 1956 (VOLUME 8, TITLE 2, CHAPTER 6) AND ITS AMENDMENTS.
- NORMAL SEEDING DEPTH IS FROM 1/2" TO 3/8" INCH. HYDROSEEDING WHICH ARE MOWED MAY BE LEFT ON THE SOIL SURFACE.
- WHERE FEASIBLE, EXCEPT WHERE EITHER A CULTIVATOR TYPE SEEDER OR HYDROSEEDER IS USED, THE SEEDBED SHOULD BE FIRMED FOLLOWING SEEDING OPERATIONS WITH A ROLLER, OR LIGHT DRAG. SEEDING OPERATIONS SHOULD BE DONE ON THE CONTOUR.
- FIRST CRACK SEEDING CAN BE USED TO IMPROVE THE DENSITY OF PERMANENT SEEDING. FIRST CRACK SEEDING MUST BE DONE IN LATE WINTER OR EARLY SPRING. SUITABLE WEATHER CONDITIONS ARE FREEZING NIGHTS AND THAWING DAYS WITH LITTLE OR NO SNOW.
- SEEDING RATES SHOULD BE INCREASED BY 10% WHEN FIRST CRACK OR HYDROSEEDING IS USED.
- HYDRAULIC APPLICATION (HYDROSEEDING) IS A SUITABLE METHOD EXCEPT ON SEVERELY STEEP SLOPES. WHEN HYDROSEEDING, A SEEDBED IS PREPARED IN THE CONVENTIONAL WAY OR BY HAND RAKING TO LOOSEN AND SMOOTH THE SOIL AND TO REMOVE SURFACE STONES LARGER THAN TWO INCHES IN DIAMETER. GENERALLY, SLOPES GREATER THAN 2:1 ARE NOT RECOMMENDED. WHERE SLOPES EXCEEDING 2:1 ARE UNAVAILABLE, SUPPLEMENTAL MULCH, MATTING AND/OR STRUCTURAL EROSION CONTROLS ARE RECOMMENDED.
- LIME SHOULD BE APPLIED AND THOROUGHLY INCORPORATED INTO THE SOIL PRIOR TO SEEDING. FERTILIZER MAY BE APPLIED SIMULTANEOUSLY WITH THE SEED. USE OF STRAW MULCH HELD WITH ADHESIVE MATERIALS OR 500 LBS PER ACRE OF 8000 FIBER MULCH IS RECOMMENDED FOR PROTECTION FROM SOIL EROSION. WHILE WOOD MULCH IS RECOMMENDED, THE RECOMMENDED RATE FOR HYDROMULCH IS 1,500 LBS PER ACRE ON FLATS AND 3,000 LBS PER ACRE ON SLOPES. SEEDING RATES MUST BE INCREASED 10% WHEN HYDROSEEDING.
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IRIGATION:

- IRIGATION WATERING MAY BE NECESSARY TO ESTABLISH NEWLY SEEDED AREAS SHOULD DROUGHT CONDITIONS OCCUR AFTER EMERGENCE OF SEED. IRIGATION WATERING SHOULD NOT EXCEED THE APPLICATION RATE OF THE SOIL AND RESULT IN EROSION.

INSPECTION, MAINTENANCE & REMOVAL REQUIREMENTS:

- LIME ACCORDING TO A SOIL TEST OR AT A MINIMUM EVERY 2 TO 3 YEARS USING A RATE OF ONE TON PER ACRE (50 LBS PER 1,000 SQ. FT.) WHERE GRASSES PREDOMINATE. FERTILIZE IF SO INDICATED BY A SOIL TEST. CUSTOMARY APPLICATIONS ARE BIENNIAL BROADCASTS OF 300 LBS OF 10-10-10 NUTRIENT FERTILIZER PER ACRE (12.5 LBS PER 1,000 SQ. FT.) AT LEAST 30% OF THE FERTILIZER'S AVAILABLE NITROGEN MUST BE IN A SLOW-RELEASE FORM.
- WHERE LEANES PREDOMINATE, FERTILIZE ACCORDING TO A SOIL TEST OR EVERY THREE YEARS, BROADCAST 300 LBS OF 0-20-20 OR EQUIVALENT FERTILIZER (2 LBS PER 1,000 SQ. FT.).
- PERMANENT VEGETATIVE COVER SHALL NOT BE CONSIDERED ESTABLISHED UNTIL GROUND COVER (APPROXIMATELY 95% VEGETATIVE SURFACE COVER) CONTROLS SOIL EROSION AND WITHSTANDS SEVERE WEATHER CONDITIONS.

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SEEDING PREPARATION:

- LOOSEN THE SOIL TO A DEPTH OF THREE TO FOUR INCHES WITH A SLIGHTLY ROUGH SURFACE. THIS PREPARATION MAY BE ACCOMPLISHED BY RAKING, DISCING, DRAGGING A SECTION OF CHAIN LINK FENCE AND/OR TRAVELING THE AREA WITH TRACKED EQUIPMENT. OVER COMPACTION SHOULD BE AVOIDED AND TRACKED EQUIPMENT CLEAR MARKS SHALL BE PERPENDICULAR TO THE ANTICIPATED DIRECTION OF SURFACE FLOW.
- APPLY TOPSOIL, IF NECESSARY, IN ACCORDANCE WITH SOIL PREPARATION AND TOPSOILING AS REQUIRED IN THE RHODE ISLAND SOIL EROSION & SEDIMENT CONTROL (SESC) HANDBOOK (LATEST EDITION).

SOIL AMENDMENTS:

- APPLY LIMESTONE FERTILIZER ACCORDING TO SOIL TESTS SUCH AS THOSE OFFERED BY SOIL TESTING LABORATORIES AT THE UNIVERSITY OF CONNECTICUT AND THE UNIVERSITY OF MASSACHUSETTS OR OTHER RELIABLE SOURCES.
- IN GENERAL, IT IS DESIRABLE TO MINIMIZE THE USE OF FERTILIZERS IN AREAS ADJACENT TO ALL WETLANDS AND SURFACE WATERS SO AS TO PREVENT THE EUTROPHICATION OF THESE WATERS.
- IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHENE TIME IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE NOT TO EXCEED 1500 POUNDS PER ACRE OR 30 POUNDS PER 1,000 SQUARE FEET USING FERTILIZER OF THE FOLLOWING:
 - 10 PERCENT AVAILABLE NITROGEN (N)
 - 20 PERCENT AVAILABLE PHOSPHORIC ACID (P)
 - 20 PERCENT AVAILABLE POTASSIUM (K)
- A 1/4" RANGE OF 6:2 TO 1:1 IS OPTIMAL FOR PLANT GROWTH OF MOST GRASS SPECIES.
- APPLY GROUND LIMESTONE EQUIVALENT TO 50 PERCENT CALCIUM PLUS MAGNESIUM OXIDE USING RATES GIVEN IN RHODE ISLAND SOIL EROSION & SEDIMENT CONTROL (SESC) HANDBOOK (LATEST EDITION) SECTION FOUR: EROSION CONTROL MEASURES: SEEDING FOR PERMANENT VEGETATIVE COVER, FIGURE 2.
- WITH THE EXCEPTION OF HYDROSEEDING, WORK LIME AND FERTILIZER INTO THE SOIL AS PRACTICAL, TO A DEPTH OF 4 INCHES WITH A DISC, SPRING TOTH HAYRACK OR OTHER SUITABLE EQUIPMENT. THE DUAL HANDLING OR DISCING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM FINE SEEDBED IS PREPARED. ALL BUT CLAY OR SILTY SOILS AND COARSE SANDS SHOULD BE ROLLED TO FIRM THE SEEDBED WHERE FEASIBLE.
- REMOVE FROM THE SURFACE ALL STONES TWO INCHES OR LARGER IN ANY DIMENSION. REMOVE ALL OTHER DEBRIS, SUCH AS WIRE, CABLE, TREE ROOTS, PIECES OF CONCRETE, CLODS, OR OTHER UNSUITABLE MATERIAL.
- AREAS NOT TO BE MOVED CAN BE TRACKED WITH CLEANED EARTHWORKING EQUIPMENT PERPENDICULAR TO THE SLOPE (SEE RHODE ISLAND SOIL EROSION & SEDIMENT CONTROL (SESC) HANDBOOK (LATEST EDITION) SECTION FOUR: SURFACE ROUGHENING).
- IN AREAS WHERE TEMPORARY EROSION CONTROL MEASURES ARE TO BE USED THE SEEDBED SHALL BE PREPARED IN ACCORDANCE WITH THE BULKER'S MANUFACTURER'S RECOMMENDATIONS.
- INSPECT SEEDBED JUST BEFORE SEEDING. IF SOIL IS COMPACTED, CRUSTED OR HARDENED, SCARPIFY THE AREA PRIOR TO SEEDING.

TIMING:

- SEED WITH PERMANENT SEED MIXTURE WITHIN SEVEN DAYS FOLLOWING THE ESTABLISHMENT OF FINAL GRADE OR WHEN GRADING WORK WITHIN THE LIMIT OF DISTURBANCE IS TO BE SUSPENDED FOR A PERIOD OF MORE THAN ONE YEAR.

SEEDING:

- APPLY SELECTED SEED AT RATES PROVIDED IN THE RHODE ISLAND SOIL EROSION & SEDIMENT CONTROL (SESC) HANDBOOK (LATEST EDITION) SECTION FOUR: EROSION CONTROL MEASURES: SEEDING FOR PERMANENT VEGETATIVE COVER, FIGURE 2. HYDROSEEDING IS NOT RECOMMENDED. WHERE SLOPES EXCEEDING 2:1 ARE UNAVAILABLE, SUPPLEMENTAL MULCH, MATTING AND/OR STRUCTURAL EROSION CONTROLS ARE RECOMMENDED.
- LIME SHOULD BE APPLIED AND THOROUGHLY INCORPORATED INTO THE SOIL PRIOR TO SEEDING. FERTILIZER MAY BE APPLIED SIMULTANEOUSLY WITH THE SEED. USE OF STRAW MULCH HELD WITH ADHESIVE MATERIALS OR 500 LBS PER ACRE OF 8000 FIBER MULCH IS RECOMMENDED FOR PROTECTION FROM SOIL EROSION. WHILE WOOD MULCH IS RECOMMENDED, THE RECOMMENDED RATE FOR HYDROMULCH IS 1,500 LBS PER ACRE ON FLATS AND 3,000 LBS PER ACRE ON SLOPES. SEEDING RATES MUST BE INCREASED 10% WHEN HYDROSEEDING.
- APPLY MULCH ACCORDING TO THE RHODE ISLAND SOIL EROSION & SEDIMENT CONTROL (SESC) HANDBOOK (LATEST EDITION) SECTION FOUR: EROSION CONTROL MEASURES: MULCHING.
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NOTES / REFERENCES

- SEE SHEET 2 FOR EXISTING NOTES & REFERENCES.
- SEE SHEET 1 FOR THE FOLLOWING NOTES & LEGENDS: EXISTING & PROPOSED LEGENDS, GENERAL NOTES, LAYOUT & MATERIAL NOTES, SOIL EROSION & SEDIMENTATION CONTROL NOTES, DEMOLITION NOTES, TRAFFIC NOTES, AS-BUILT NOTES, GRADING & UTILITY NOTES, ABBREVIATION LEGEND, SOIL INFORMATION AND SITE CALLOUT LEGEND. ADDITIONAL NOTES MAY BE FOUND ON OTHER DRAWING SHEETS.

GENERAL SESC NOTES:

- SEE SOIL EROSION & SEDIMENTATION CONTROL NOTES ON SHEET 1.
- THESE PLANS MUST BE READ IN CONJUNCTION WITH THE SOIL EROSION & SEDIMENTATION CONTROL PLAN BY WATERMAN ENGINEERING COMPANY (CURRENT EDITION).

SEEDING FOR TEMPORARY VEGETATIVE COVER

PURPOSE:

- TO STABILIZE THE SOIL WITH VEGETATION FOR ONE TO 18 MONTHS.
- TO REDUCE DAMAGE FROM WIND AND/OR WATER EROSION & SEDIMENTATION UNTIL PERMANENT STABILIZATION IS ACHIEVED.

APPLICABILITY:

- STABILIZING DISTURBED CONSTRUCTION AREAS WHICH HAVE BEEN INACTIVE FOR OVER 14 DAYS.
- ON EXPOSED SOILS THAT HAVE THE POTENTIAL FOR PRODUCING SEDIMENT & CAUSING ON OR OFF-SITE DAMAGES. SUCH AREAS MAY INCLUDE ROAD BANKS, STOCKPILES, BROWNSPOTS AS WELL AS OTHER UNSTABLE OR DISTURBED AREAS.
- FOLLOWING SOIL PREPARATION AND TOPSOILING AS REQUIRED IN THE RHODE ISLAND SOIL EROSION & SEDIMENT CONTROL (SESC) HANDBOOK (LATEST EDITION).
- NOTE: FOR STABILIZING AREAS THAT ARE TO BE LEFT ACTIVE FOR MORE THAN ONE YEAR.

INSTALLATION REQUIREMENTS:

SITE PREPARATION:

- INSTALL NEEDED EROSION CONTROL MEASURES SUCH AS: GRADE AS NEEDED.

SEEDING PREPARATION:

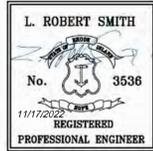
- LOOSEN THE SOIL TO A DEPTH OF THREE TO FOUR INCHES WITH A SLIGHTLY ROUGH SURFACE. THIS PREPARATION MAY BE ACCOMPLISHED BY RAKING, DISCING, DRAGGING A SECTION OF CHAIN LINK FENCE AND/OR TRAVELING THE AREA WITH TRACKED EQUIPMENT. OVER COMPACTION SHOULD BE AVOIDED AND TRACKED EQUIPMENT CLEAR MARKS SHALL BE PERPENDICULAR TO THE ANTICIPATED DIRECTION OF SURFACE FLOW.

SOIL AMENDMENTS:

- APPLY LIMESTONE & FERTILIZER ACCORDING TO SOIL TESTS SUCH AS THOSE OFFERED BY THE UNIVERSITY OF RHODE ISLAND SOIL TESTING LABORATORY OR OTHER RELIABLE SOURCES.
- A 1/4" RANGE OF 6:2 TO 1:1 IS OPTIMAL FOR PLANT GROWTH OF MOST GRASS SPECIES.
- SOIL TESTING NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 300 POUNDS PER ACRE OR 7.5 POUNDS PER 1,000 SQUARE FEET USING FERTILIZER OF THE FOLLOWING:
 - 10 PERCENT AVAILABLE NITROGEN (N)
 - 10 PERCENT AVAILABLE PHOSPHORIC ACID (P)
 - 10 PERCENT AVAILABLE POTASSIUM (K)
- FERTILIZER SHOULD ALWAYS BE APPLIED TO MEET THE REQUIREMENTS OF THE SITE. THE ADDITION OF SURPLUS NITROGEN MAY CAUSE POLLUTION OF DRINKING WATER AND SALINITY ECOSYSTEMS.
- MATERIALS SHOULD BE PRIMARILY SLOW-RELEASE WHETHER SYNTHETIC OR ORGANIC, AND IF THE SITE IS NOT TO BE FERTILIZED AFTER ESTABLISHMENT THEN 3-4 LBS SLOW-RELEASE NITROGEN PER 1,000 SQUARE FEET IS NECESSARY TO PREVENT NUTRIENT DEFICIENCY AND PLANT DEATH. SLOW-RELEASE NUTRIENTS ARE NOT SUITABLE FOR USE ON SLOPES. SLOW-RELEASE NITROGEN IS ALSO KNOWN AS WATER-INSOLUBLE NITROGEN CLASS A BIOSOLIDS SHOULD BE CONSIDERED AS A SUSTAINABLE SLOW-RELEASE NUTRIENT FOR ROADWAYS OR OTHER AREAS WITH MINIMAL PEDESTRIAN TRAFFIC.
- SEE RHODE ISLAND SOIL EROSION & SEDIMENT CONTROL (SESC) HANDBOOK (LATEST EDITION) SECTION FOUR: EROSION CONTROL MEASURES: SEEDING FOR TEMPORARY VEGETATIVE COVER, FIGURE 1 FOR CALCULATING THE FERTILIZER APPLICATION RATES.

SEEDING:

- SELECT SEED USING RECOMMENDATION GIVEN IN THE RHODE ISLAND SOIL EROSION & SEDIMENT CONTROL (SESC) HANDBOOK (LATEST EDITION) SECTION FOUR: EROSION CONTROL MEASURES: SE

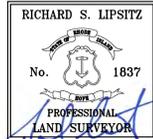


* SIGNATURES MUST BE IN BLUE INK TO CONSTITUTE AN ORIGINAL PLAN
CERTIFICATION

THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO 435-RICR-0000-1.9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON APRIL 28, 2018, AS FOLLOWS:

TYPE OF BOUNDARY SURVEY: MEASUREMENT / ACCURACY SPECIFICATION:
 DATA ACCUMULATION: 1
 TOPOGRAPHIC SURVEY: T-1

OTHER TYPE OF SURVEY:
 THE PURPOSE FOR CONDUCTING THIS SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS:
 BOUNDARY & TOPOGRAPHIC SURVEY FOR THE FUTURE DEVELOPMENT OF THE PROPERTY.



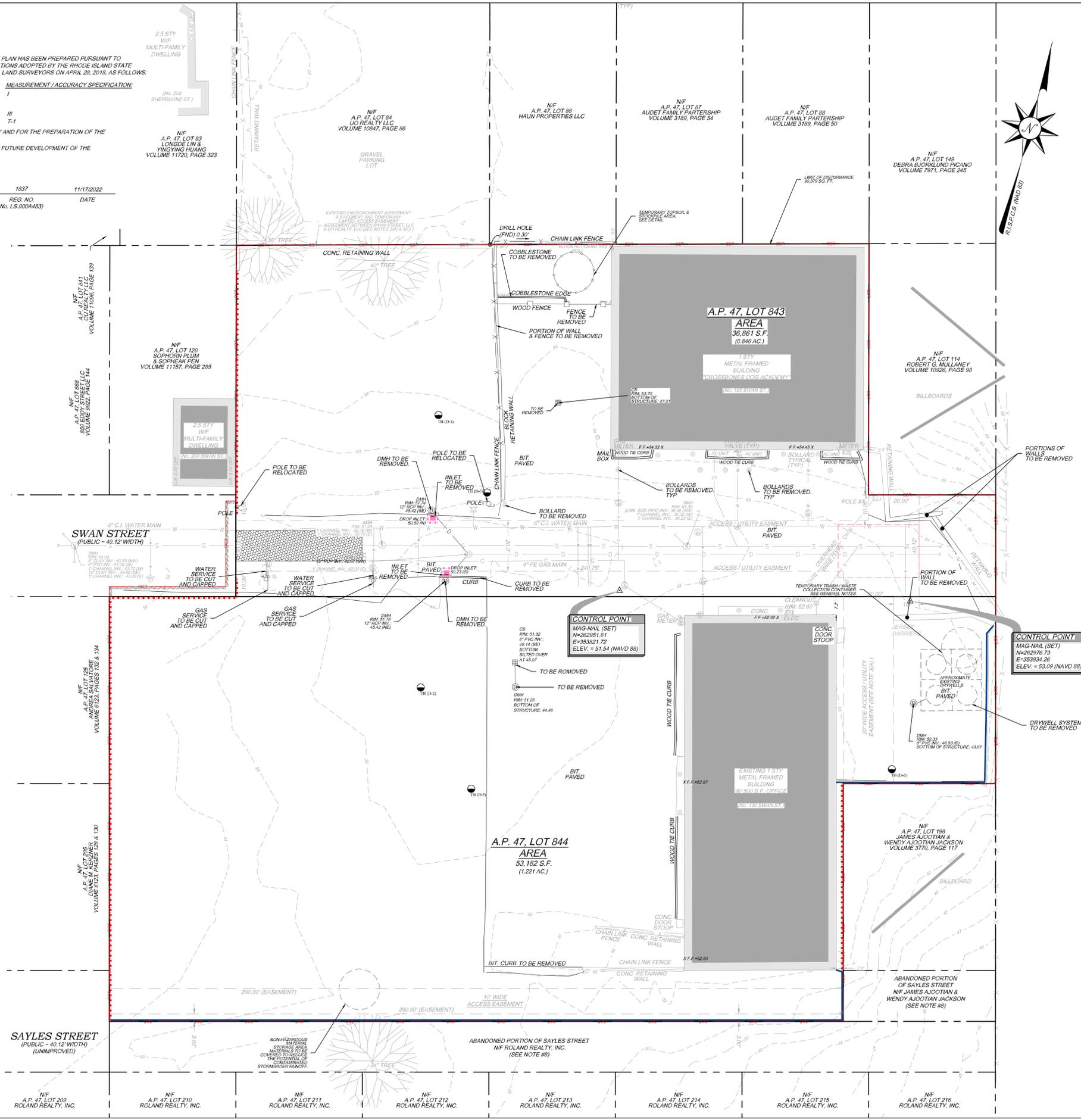
BY: RICHARD S. LIPSITZ, P.L.S. REG. NO. 1837 DATE 11/17/2022
 WATERMAN ENGINEERING COMPANY (COA No. LS.0004483)

SOIL EROSION CONTROL LEGEND:

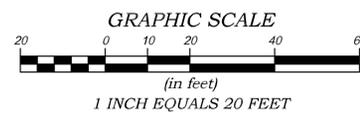
- EROSION CONTROL (COMPOST SOCK, SILT FENCE (R1 STD 9.2.0) OR APPROVED EQUAL)
- CLASS C SILT FENCE
- LIMIT OF DISTURBANCE
- 12' WIDE CONSTRUCTION ENTRANCE (RIDOT 9.9.0)
- INLET SEDIMENT CONTROL & CATCH BASIN EROSION CONTROL
- CONCRETE WASHOUT AREA

NOTES / REFERENCES

1. SEE SHEET 2 FOR EXISTING NOTES & REFERENCES.
2. SEE SHEET 1 FOR THE FOLLOWING NOTES & LEGENDS: EXISTING & PROPOSED LEGENDS, GENERAL NOTES, LAYOUT & MATERIAL NOTES, SOIL EROSION & SEDIMENTATION CONTROL NOTES, DEMOLITION NOTES, TRAFFIC NOTES, AS-BUILT NOTES, RIDOT NOTES, GRADING & UTILITY NOTES, ABBREVIATION LEGEND, SOIL INFORMATION AND SITE CALLOUT LEGEND. ADDITIONAL NOTES MAY BE FOUND ON OTHER DRAWING SHEETS.



NOTE: THIS PLAN MUST BE REPRODUCED IN COLOR



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**RHODE ISLAND DEPT. of ENVIRONMENTAL MANAGEMENT
 RHODE ISLAND POLLUTION DISCHARGE ELIMINATION
 SYSTEM SUBMISSION**

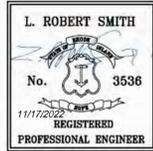
NO.	DATE	REVISION	CHECKED BY
4	11/07/2022	REVISED PER 09/20/2022 ADMINISTRATIVE SUBDIVISION PLAN	BJT
3	09/15/2021	REVISED FOR MAJOR LAND DEVELOPMENT	BJT
2	08/30/2021	ADDED UTILITY RMS & INVERTS AND SURVEY UPDATE	RSL

PROJECT NO: 00-122
 SCALE: 1" = 20'
 DATE: 09/21/2020
 DRAWN BY: MS / EJT

CHECKED BY: LRS / RSL
 FILENAME: 0122_2022_MachDev_003
 \$ of 16_SHTS
 DRAWING #: C-3

COLETTA GROUP LLC
 7715 POST ROAD, SUITE 204
 NORTH KINGSTOWN, RHODE ISLAND 02852

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 www.watermanengineering.net



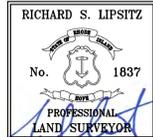
* SIGNATURES MUST BE IN BLUE INK TO CONSTITUTE AN ORIGINAL PLAN

CERTIFICATION

THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO 435-RICR-00-00-1.9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON APRIL 26, 2019, AS FOLLOWS:

TYPE OF BOUNDARY SURVEY: MEASUREMENT / ACCURACY SPECIFICATION:
COMPREHENSIVE BOUNDARY SURVEY 1
DATA ACCUMULATION III
TOPOGRAPHIC SURVEY T-1

THE PURPOSE FOR CONDUCTING THIS SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS:
BOUNDARY & TOPOGRAPHIC SURVEY FOR THE FUTURE DEVELOPMENT OF THE PROPERTY.



BY: RICHARD S. LIPSITZ, P.L.S. REG. NO. 1837 DATE 11/17/2022
WATERMAN ENGINEERING COMPANY (COA No. LS.0004483)

APPROVALS RECEIVED TO DATE

NONE TO DATE

NOTES / REFERENCES

- SEE SHEET 2 FOR EXISTING NOTES & REFERENCES.
- SEE SHEET 1 FOR THE FOLLOWING NOTES & LEGENDS: EXISTING & PROPOSED LEGENDS, GENERAL NOTES, LAYOUT & MATERIAL NOTES, SOIL EROSION & SEDIMENTATION CONTROL NOTES, DEMOLITION NOTES, TRAFFIC NOTES, AS-BUILT NOTES, RIDOT NOTES, GRADING & UTILITY NOTES, ABBREVIATION LEGEND, SOIL INFORMATION AND SITE CALLOUT LEGEND. ADDITIONAL NOTES MAY BE FOUND ON OTHER DRAWING SHEETS.

DEVELOPMENT DATA :

TOTAL SITE AREA: 80,043 S.F. (2.067 AC.)
 NUMBER OF EXISTING BUILDINGS: 2
 NUMBER OF PROPOSED BUILDINGS: 2
 TOTAL NUMBER OF POST-CONSTRUCTION BUILDINGS: 4 (NEW & EXISTING BUILDINGS)

APPROVALS RECEIVED TO DATE

NONE TO DATE

PARKING REQUIREMENTS

- THE FOLLOWING ARE THE VEHICLE & BICYCLE PARKING REQUIREMENTS FOR A.P. 47, LOTS 843 & 844:
 THE EXISTING AND PROPOSED BUILDINGS FOR A.P. 47, LOTS 119, 119, 832 & 834 ARE OR WILL BE INDUSTRIAL - LIGHT, INDUSTRIAL - GENERAL, OFFICE & ANIMAL CARE FACILITY USE AND ARE LOCATED IN A M-MU-75 INDUSTRIAL ZONING DISTRICT.
 THE VEHICLE & BICYCLE PARKING REQUIREMENTS ARE:

USE	MIN. REQUIRED VEHICLE SPACES	MIN. REQUIRED BICYCLE SPACES	PERCENTAGE OF REQUIRED BICYCLE SPACES THAT SHALL BE LONG-TERM SPACES
OFFICE	1 PER 500 S.F. GFA	1 PER 5,000 S.F. GFA	50%
INDUSTRIAL-LIGHT	1 PER 5 EMPLOYEES	1 PER 5 EMPLOYEES	50%
INDUSTRIAL-GENERAL	1 PER 5 EMPLOYEES	1 PER 5 EMPLOYEES	50%
ANIMAL CARE FAC.	1 PER 500 S.F. GFA	OVER 10,000 S.F. GFA 1 PER 2,500 S.F. GFA	

- THE FOLLOWING ARE THE REQUIRED & PROVIDED VEHICLE & BICYCLE PARKING SPACES FOR A.P. 47, LOTS 843 & 844:
 THE EXISTING AND PROPOSED BUILDINGS FOR A.P. 47, LOTS 843 & 844 ARE LOCATED IN A M-MU-75 INDUSTRIAL ZONING DISTRICT.
 THE REQUIRED & PROVIDED VEHICLE & BICYCLE PARKING SPACES ARE:

LOT(S)	VEHICLE SPACES	BICYCLE SPACES	NUMBER OF BICYCLE SPACES THAT SHALL BE LONG-TERM SPACES
LOT 843 #189 SWAN ST. EXISTING BUILDING CROSSBONES DOG ACADEMY 8,013 S.F. ANIMAL CARE FAC. =	17 VEHICLE SPACES	N/A	N/A
TOTAL REQUIRED=	17 VEHICLE SPACES	N/A	N/A
PROVIDED=	10 VEHICLE SPACES (EXISTING + 1,100 S.F.)	2 BICYCLE SPACES	1 BICYCLE SPACE
LOT 843 #199 SWAN ST. PROPOSED BUILDING INDUSTRIAL-LIGHT 10 EMPLOYEES =	2 VEHICLE SPACES	2 BICYCLE SPACES	50%
1,000 S.F. OFFICE =	2 VEHICLE SPACES	1 BICYCLE SPACE	50%
TOTAL REQUIRED=	4 VEHICLE SPACES	3 BICYCLE SPACES	1 BICYCLE SPACE
PROVIDED=	7 VEHICLE SPACES	2 BICYCLE SPACES	1 BICYCLE SPACE
LOT 844 #190 SWAN ST. EXISTING BUILDING INDUSTRIAL-GEN. 5 EMPLOYEES =	1 VEHICLE SPACE	1 BICYCLE SPACE	50%
500 S.F. OFFICE =	1 VEHICLE SPACE	1 BICYCLE SPACE	50%
TOTAL REQUIRED=	2 VEHICLE SPACES	2 BICYCLE SPACES	1 BICYCLE SPACE
PROVIDED=	5 VEHICLE SPACES	2 BICYCLE SPACES	1 BICYCLE SPACE
LOT 844 #200 SWAN ST. PROPOSED BUILDING INDUSTRIAL-LIGHT 10 EMPLOYEES =	2 VEHICLE SPACES	2 BICYCLE SPACE	50%
1,500 S.F. OFFICE =	3 VEHICLE SPACES	1 BICYCLE SPACE	50%
TOTAL REQUIRED=	5 VEHICLE SPACES	3 BICYCLE SPACES	1 BICYCLE SPACE
PROVIDED=	5 VEHICLE SPACES	2 BICYCLE SPACES	1 BICYCLE SPACE

RHODE ISLAND DEPT. of ENVIRONMENTAL MANAGEMENT RHODE ISLAND POLLUTION DISCHARGE ELIMINATION SYSTEM SUBMISSION

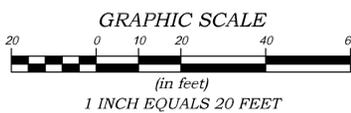
NO.	DATE	REVISION	CHECKED BY
4	11/07/2022	REVISED PER 09/20/2022 ADMINISTRATIVE SUBDIVISION PLAN	BJT
3	09/15/2021	REVISED FOR MAJOR LAND DEVELOPMENT	BJT
2	08/30/2021	ADDED UTILITY RIMS & INVERTS AND SURVEY UPDATE	RSL

OVERALL SITE LAYOUT PLAN
A.P. 47, LOTS 843 & 844
SWAN STREET & SAYLES STREET
PROVIDENCE, RHODE ISLAND

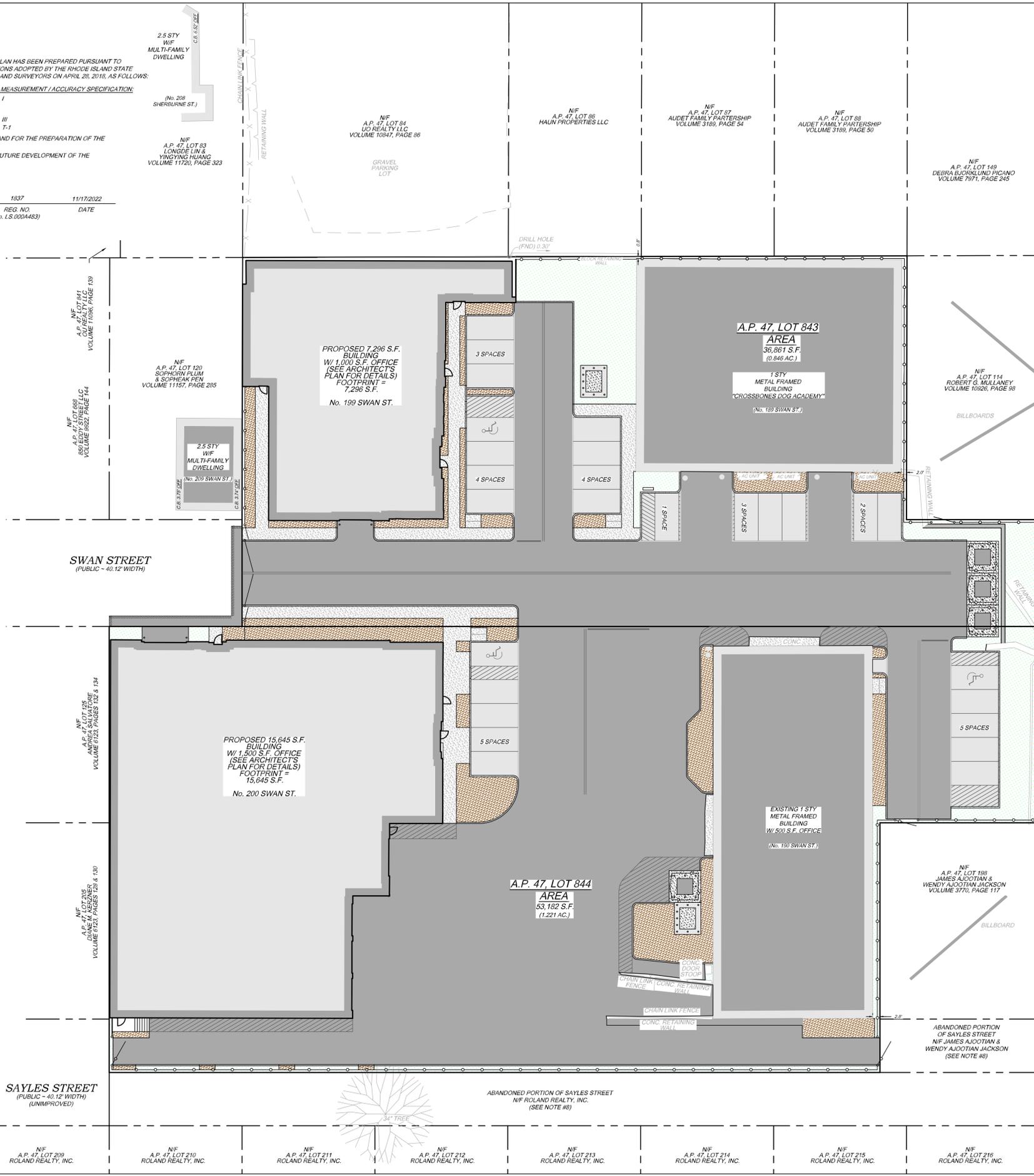
COLETTA GROUP LLC
7715 POST ROAD, SUITE 204
NORTH KINGSTOWN, RHODE ISLAND 02852



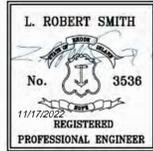
NOTE: THIS PLAN MUST BE REPRODUCED IN COLOR



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INTERSTATE ROUTE 95



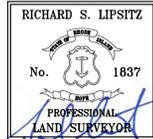
SIGNATURES MUST BE IN BLUE INK TO CONSTITUTE AN ORIGINAL PLAN

CERTIFICATION

THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO 435-RICR-000A-1.9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON APRIL 28, 2018, AS FOLLOWS:

TYPE OF BOUNDARY SURVEY: COMPREHENSIVE BOUNDARY SURVEY
MEASUREMENT / ACCURACY SPECIFICATION: 1
OTHER TYPE OF SURVEY: TOPOGRAPHIC SURVEY
DATA ACCUMULATION: III
TOPOGRAPHIC SURVEY: T-1

THE PURPOSE FOR CONDUCTING THIS SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS:
BOUNDARY & TOPOGRAPHIC SURVEY FOR THE FUTURE DEVELOPMENT OF THE PROPERTY.

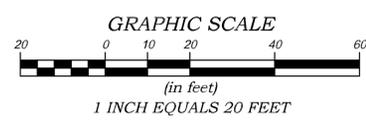
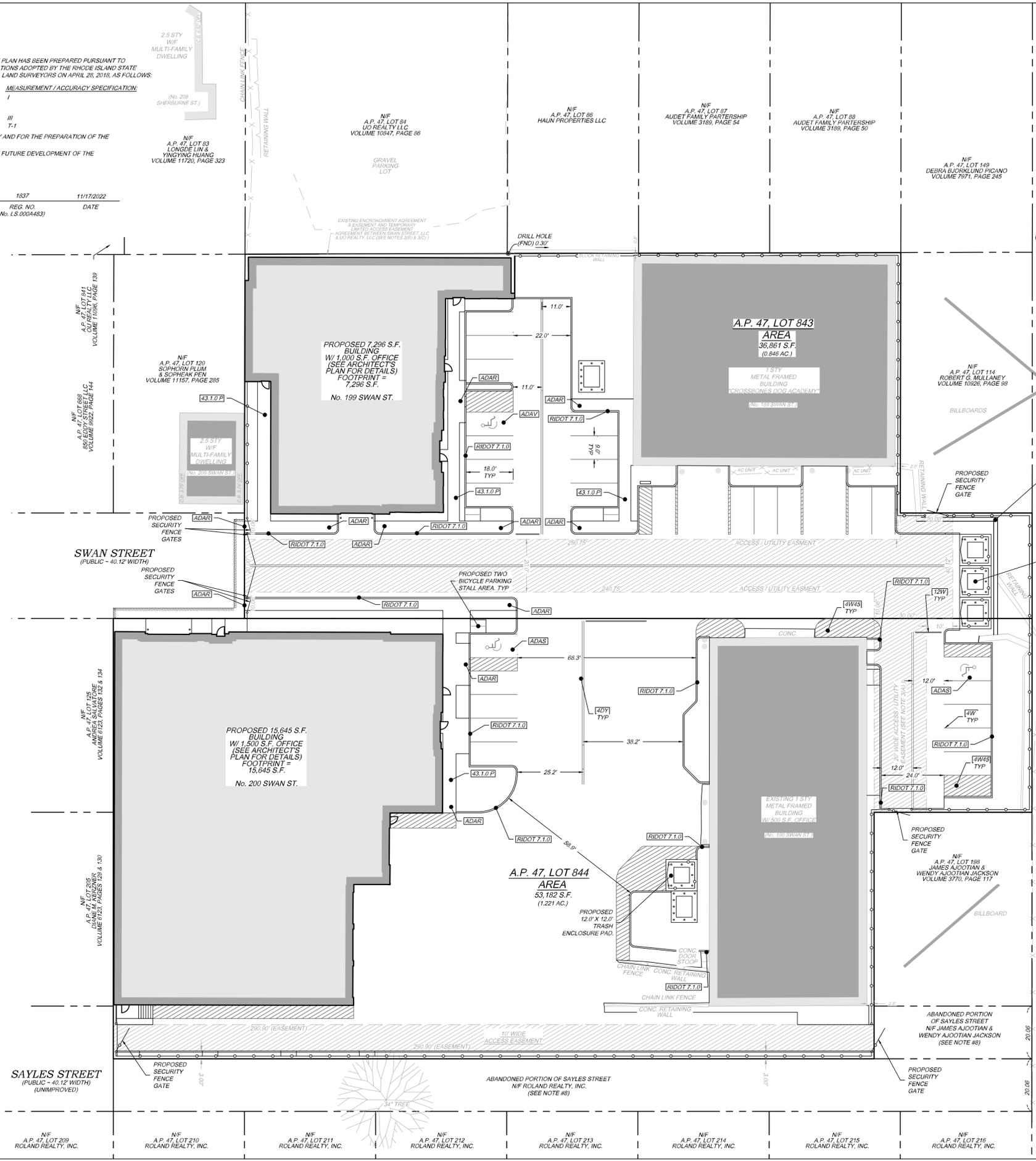


BY: RICHARD S. LIPSITZ, P.L.S. REG. NO. 1837 DATE 11/17/2022
WATERMAN ENGINEERING COMPANY (COA No. LS.0004483)

11/17/2022

NOTES / REFERENCES

- SEE SHEET 2 FOR EXISTING NOTES & REFERENCES.
- SEE SHEET 1 FOR THE FOLLOWING NOTES & LEGENDS: EXISTING & PROPOSED LEGENDS, GENERAL NOTES, LAYOUT & MATERIAL NOTES, SOIL EROSION & SEDIMENTATION CONTROL NOTES, DEMOLITION NOTES, TRAFFIC NOTES, AS-BUILT NOTES, RIDOT NOTES, GRADING & UTILITY NOTES, ABBREVIATION LEGEND, SOIL INFORMATION AND SITE LAYOUT LEGEND. ADDITIONAL NOTES MAY BE FOUND ON OTHER DRAWING SHEETS.
- THE PURPOSE OF THIS PLAN IS TO SHOW THE SITE LAYOUT FOR THE PROPOSED COLETTA GROUP LLC MAJOR LAND DEVELOPMENT.
- THE BELOW PERMITS/APPROVALS ARE ANTICIPATED TO BE REQUIRED:
 - * CITY OF PROVIDENCE
 - PROVIDENCE WATER SUPPLY BOARD FOR NEW WATER SERVICE
 - DEPARTMENT OF PUBLIC WORKS FOR NEW CONSTRUCTION & CONSTRUCTION SITE STORMWATER RUN-OFF MANAGEMENT
 - FIRE PREVENTION DIVISION OF THE PROVIDENCE FIRE MARSHALL
 - * NARRAGANSETT BAY COMMISSION
 - SEWER CONNECTION PERMIT
 - STORMWATER CONNECTION PERMIT
 - * RIDEM
 - STORMWATER PERMIT
 - RI POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT (RIDPDES)
- LANDSCAPING SHALL BE PROVIDED IN ACCORDANCE WITH THE ZONING ORDINANCE. AT A MINIMUM PERMANENT SEEDING WITH NATIVE VEGETATION OR HYDROSEEDING, HAY, OR STRAW WILL BE REQUIRED FOR STABILIZING DISTURBED OR ERODIBLE SOILS, WHERE THE SUSPENSION OF WORK IS EXPECTED TO EXCEED 1 YEAR, AND WHERE SLOPES LESS THAN 100 FEET LONG AND 2:1 OR FLATTER HAVE BEEN DISTURBED.



INTERSTATE ROUTE 95

**RHODE ISLAND DEPT. of ENVIRONMENTAL MANAGEMENT
RHODE ISLAND POLLUTION DISCHARGE ELIMINATION
SYSTEM SUBMISSION**

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2	08/30/2021	ADDED UTILITY RMS & INVERTS AND SURVEY UPDATE	RSL

PROJECT NO: 00-122
SCALE: 1" = 20'
DATE: 09/21/2020
DRAWN BY: MS / EJT
CHECKED BY: LRS / RSL

COLETTA GROUP LLC
7715 POST ROAD, SUITE 204
NORTH KINGSTOWN, RHODE ISLAND 02882

46 Sutton Avenue
East Providence, RI
Phone: (401) - 438 - 5775
Fax: (401) - 438 - 5773
www.watermanengineering.net

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A.P. 47, LOT 209 ROLAND REALTY, INC.
A.P. 47, LOT 210 ROLAND REALTY, INC.
A.P. 47, LOT 211 ROLAND REALTY, INC.
A.P. 47, LOT 212 ROLAND REALTY, INC.
A.P. 47, LOT 213 ROLAND REALTY, INC.
A.P. 47, LOT 214 ROLAND REALTY, INC.
A.P. 47, LOT 215 ROLAND REALTY, INC.
A.P. 47, LOT 216 ROLAND REALTY, INC.