CASS PARK

CASS AVENUE · WOONSOCKET · RHODE ISLAND

CASS POND IMPROVEMENTS

SEPTEMBER 3, 2014

PREPARED FOR

CITY OF WOONSOCKET
169 MAIN STREET
WOONSOCKET, RHODE ISLAND 02895

PREPARED BY

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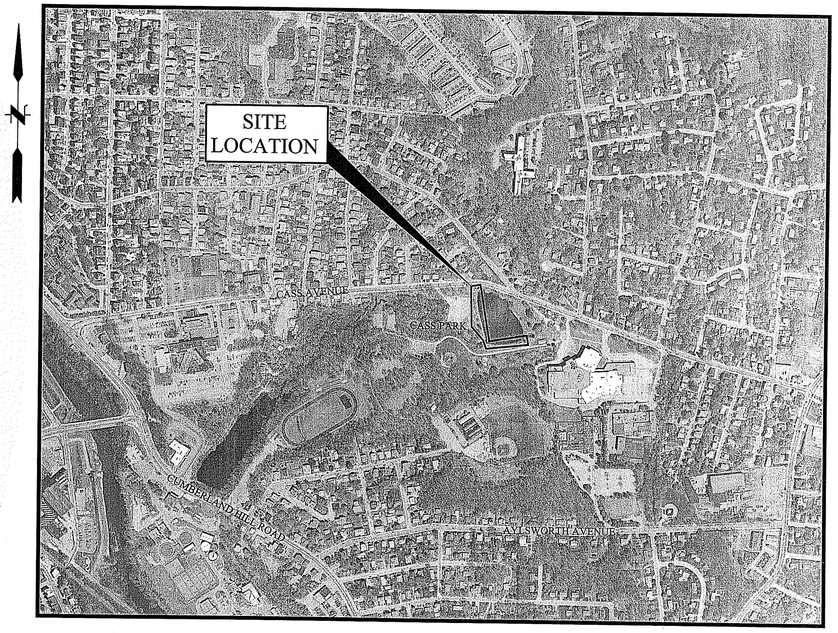

LOCATION MAP
SCALE: 1" = 500'

RECEIVED
SEP 04 2014
Department of Environmental Management
Office of Customer & Technical Assistance

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED OCT 1 2014 FILE # 14-0161
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

SEP 5 2014

PRELIMINARY DETERMINATION SET

PROJ. No.: 20130545.A20
DATE: SEPTEMBER 2014

GI-001

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LEGEND

EXIST	PROP	
		PROPERTY LINE/RIGHT-OF-WAY
		CENTERLINE
	LOD	LIMIT OF DISTURBANCE
		EASEMENT
WF1 WF2		EDGE OF WATER
		WETLAND LINE
		BUFFER ZONE
		WETLAND SYMBOL
		GRAVEL ROAD
		EDGE OF PAVEMENT
		BITUMINOUS CURB
		CONCRETE CURB
		PRECAST CONC. CURB
		VERT. GRAN. CURB
		LIMIT OF CURB TYPE
SHEET C9-101 SHEET C9-102		MATCH LINE
		GUARD RAIL
		STOCKADE FENCE
		WIRE FENCE
		CHAIN LINK FENCE
		TREE LINE
		SHRUB LINE
		STONE WALL
		RETAINING WALL
2	4	MINOR CONTOUR
10	20	MAJOR CONTOUR
		BUILDING
		BOLLARD
		SIGN
		DOUBLE SIGN
		CONC. PAVEMENT
		LIMIT OF DISTURBANCE
		RETAINING WALL
		GRANITE COBBLE BANDING
		SOIL CEMENT PAVING
		LANDSCAPE AREA
		PICNIC TABLE
		LANDSCAPE BOULDER
		GRANITE BENCH
		TRASH RECEPTACLE
21.25 TC 21.25 BC	TOW = 160.20 BOW = 158.70	TOP & BOTTOM ELEVATION
21.25	21.25	SPOT ELEVATION w/LEADER
x v21.25	x21.25	SPOT ELEVATION

EXIST	PROP	
12" D		DRAINAGE LINE
12" S		SEWER LINE
CB		CATCH BASIN
DCB		DOUBLE CATCH BASIN
DI		DRAIN INLET
DMH		DRAIN MANHOLE
		FLARED END SECTION
		HEADWALL
WV		WATER MANHOLE
WG		WATER GATE
GV 3-D		GATE VALVE
WS		WATER SHUTOFF
		FIRE HYDRANT
W		WELL
		WATTLES
		CHECK DAM
		WATERFOWL EXCLUSION FENCE
		SAFETY FENCE
		FLOWERING TREE
		SHRUBS / PERENNIALS / GROUNDCOVER
		ORNAMENTAL GRASSES
		EMERGENT SPECIES
		LAWN
X XX		PLANT QUANTITY AND SPECIES

GENERAL NOTES

1. EXISTING CONDITIONS:
   A. SURVEY:
   PROPERTY BOUNDARY AND TOPOGRAPHICAL INFORMATION WERE OBTAINED FROM A PLAN BY WATERMAN ENGINEERING, DATED JULY 9, 2014 AND UPDATED JULY 16, 2014.

   B. UTILITIES:
   THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE ONLY AND HAVE NOT YET BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MAY BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE CONTRACTOR IS TO CONTACT "DIG SAFE" AT 1-888-344-7233, 72-HOURS PRIOR, EXCLUDING WEEKENDS AND HOLIDAYS, TO ANY EXCAVATION PERFORMED ON SITE.

2. MATERIAL:
   A. CEMENT CONCRETE SIDEWALKS:
   ALL PORTLAND CEMENT CONCRETE USED IN THE CONSTRUCTION OF THE CEMENT CONCRETE SIDEWALKS SHALL BE CLASS A(AE) AND CONFORM TO THE REQUIREMENTS AS SET FORTH IN SUBSECTIONS 601.01.1 AND 601.03.1 OF THE LATEST EDITION OF THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

   B. LANDSCAPE AREAS:
   ALL SURFACED AREAS OR DISTURBED AREAS NOT SPECIFIED ON THE PLANS SHALL RECEIVE 4 INCHES OF TOPSOIL, SEED, MULCH, AND BE WATERED UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.

CONSTRUCTION SEQUENCE

CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT ARE EXPECTED TO COMMENCE IN FALL OF 2014. IT IS ANTICIPATED THAT CONSTRUCTION WILL BE COMPLETED BY SPRING 2015. THE GENERAL SEQUENCE FOR EACH PHASE OF CONSTRUCTION IS AS FOLLOWS:

1. INSTALL PERIMETER SEDIMENT CONTROL BARRIERS AND PROPOSED CONSTRUCTION ENTRANCES, AS SHOWN ON THE CONSTRUCTION PLANS. EROSION CONTROL MEASURES WILL BE MAINTAINED OR REPLACED AS REQUIRED THROUGHOUT CONSTRUCTION PERIOD. ANY TEMPORARY SOIL STOCKPILE AREAS DURING CONSTRUCTION WILL ALSO BE ENCOMPASSED BY HAYBALES.
2. CLEAR THE SITE AND REMOVE DEMOLISHED MATERIALS.
3. ROUGH GRADE AND STOCKPILE EXCESS SOILS FOR REMOVAL OR REUSE AS SPECIFIED.
4. COMPACT SUBGRADE AND INSTALL GRAVEL BORROW IN ALL AREAS REQUIRED BY THE PLANS.
5. INSTALL PROPOSED CURBING, SOIL CONCRETE AND SITE FEATURES.
6. FINISH GRADE LANDSCAPED AREAS AND CONSTRUCT SIDEWALKS.
7. PERMANENTLY SEED ALL NON-PAVED AREAS AND INSTALL LANDSCAPING AS SPECIFIED.
8. REMOVE TEMPORARY EROSION CONTROLS MEASURES ONCE PERMANENT VEGETATION COVER HAS BEEN ESTABLISHED AND THE SITE IS STABILIZED, INSPECTED, AND APPROVED BY THE CITY OF WOONSOCKET AND THE ENGINEER.

SPILL PREVENTION AND RESPONSE PROCEDURE

1. ANY INADVERTENT OR DELIBERATE DISCHARGE OF WASTE OIL OR ANY OTHER POLLUTANT TO THE STORMWATER DISPOSAL SYSTEM REQUIRES IMMEDIATE NOTIFICATION TO THE RIDEM OIL POLLUTION CONTROL PROGRAM AT (401) 277-2284, AS PER THE OIL POLLUTION CONTROL REGULATIONS. DURING NON-WORKING HOURS, NOTIFICATION OF SPILLS CAN BE MADE TO THE RIDEM DIVISION OF ENFORCEMENT AT (401) 222-3070 (THE 24-HOUR EMERGENCY RESPONSE PHONE NUMBER).
2. ANY INCIDENT OF GROUNDWATER CONTAMINATION RESULTING FROM THE IMPROPER DISCHARGE OF POLLUTANTS TO THE STORMWATER DISPOSAL SYSTEM SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER AS WELL AS ANY OTHER PARTIES THAT THE RIDEM DETERMINES TO BE RESPONSIBLE FOR THE CONTAMINATION. PURSUANT TO STATE LAWS AND REGULATIONS, THE RIDEM MAY REQUIRE THE PROPERTY OWNER AND OTHER RESPONSIBLE PARTIES TO REMEDIATE ANY INCIDENTS THAT MAY ADVERSELY IMPACT GROUNDWATER QUALITY.

GENERAL CONSTRUCTION REQUIREMENTS

1. THE CONTRACTOR SHALL VERIFY THE PROPOSED LAYOUT WITH ITS RELATIONSHIP TO THE EXISTING SITE SURVEY. THE CONTRACTOR SHALL ALSO VERIFY ALL DIMENSIONS, SITE CONDITIONS, AND MATERIAL SPECIFICATIONS AND SHALL NOTIFY THE OWNER AND ENGINEER OF ANY ERRORS, OMISSIONS OR DISCREPANCIES BEFORE COMMENCING OR PROCEEDING WITH WORK.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, INSPECTIONS, BONDS, ETC. AND OTHER APPROVAL RELATED ITEMS WITH THE CITY OF WOONSOCKET. NO CONSTRUCTION SHALL COMMENCE UNTIL SUCH PERMITS HAVE BEEN SECURED.
3. METHODS AND MATERIALS USED IN THE CONSTRUCTION OF IMPROVEMENTS FOR THIS PROJECT SHALL CONFORM TO THE CURRENT CONSTRUCTION STANDARDS AND SPECIFICATIONS OF THE CITY OF WOONSOCKET AND THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION.
4. DEVIATIONS OR CHANGES FROM THESE PLANS WILL NOT BE ALLOWED UNLESS APPROVED BY THE ENGINEER/OWNER.
5. THE CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AND LOCATE ANY EXISTING UTILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF NECESSARY. THE EXISTENCE AND/OR LOCATION OF UTILITIES SHOWN ON THESE PLANS MAY BE ONLY APPROXIMATELY CORRECT AND THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN HEREON AND ANY OTHER EXISTING UTILITIES NOT OF RECORD OR NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING, AT HIS/HER EXPENSE, ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION.
6. THE CONTRACTOR SHALL NOTIFY OPERATORS WHO MAINTAIN UNDERGROUND UTILITY LINES IN THE AREA OF PROPOSED EXCAVATION OR BLASTING AT LEAST TWO WORKING DAYS, BUT NOT MORE THAN TEN WORKING DAYS, PRIOR TO COMMENCEMENT OF EXCAVATION OR DEMOLITION. ALL WATER, GAS, SEWER AND OTHER UTILITY SERVICES SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
7. RELOCATION OF ANY UTILITIES SHALL BE AT THE OWNERS EXPENSE AND COMPLETED WITH THE UTILITY WORK. THE OWNER SHALL BE NOTIFIED AS TO THE RELOCATIONS REQUIRED PRIOR TO THE START OF CONSTRUCTION.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING, WITH MATCHING MATERIALS, ANY PAVEMENT, WALKS, CURBS, ETC. THAT MUST BE CUT OR THAT ARE DAMAGED DURING CONSTRUCTION.
9. AN APPROVED SET OF PLANS AND ALL APPLICABLE PERMITS MUST BE AVAILABLE AT THE CONSTRUCTION SITE.
10. CONTRACTOR AGREES THAT HE/SHE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL AND ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM "THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER."
11. THE STATE OF RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2010 EDITION, REVISIONS AND ALL CURRENT ADDENDA, AND THE RHODE ISLAND STANDARD DETAILS ARE MADE A PART HEREOF, AS IF ATTACHED HERETO.
12. CONTRACTOR SHALL IDENTIFY TREES TO BE REMOVED PRIOR TO CONSTRUCTION AND MARK THEM WITH CONSTRUCTION TAPE FOR REVIEW BY THE OWNER. CONTRACTOR SHALL NOT REMOVE TREES UNTIL REVIEWED AND APPROVED BY THE OWNER.
13. THE CONTRACTOR SHALL RESTORE DISTURBED AREAS TO ORIGINAL CONDITION. AREAS DAMAGED DURING CONSTRUCTION SHALL BE RESODDED, RESEEDED, OR OTHERWISE RESTORED TO THEIR ORIGINAL STATE. TREES AND OTHER EXISTING VEGETATION SHALL BE RETAINED WHEREVER FEASIBLE.
14. ALL EXCESS EXCAVATED MATERIALS, EXCESS FILL, EXCESS CONSTRUCTION MATERIALS, AND DEBRIS SHALL BE REMOVED FROM THE SITE AND SHALL BE DISPOSED OF IN ACCORDANCE WITH APPLICABLE LAWS.

EROSION CONTROL

1. DISTURBANCE OF SOIL SURFACES IS REGULATED BY STATE LAW AND LOCAL ORDINANCE. ALL WORK SHALL COMPLY WITH THE FOLLOWING CRITERIA TO PREVENT OR MINIMIZE SOIL EROSION.
2. THE INSTALLATION AND MAINTENANCE OF EROSION CONTROL DEVICES IS THE RESPONSIBILITY OF THE CONTRACTOR. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL INSTALL ALL EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE PLAN, OR AS DIRECTED BY THE RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AND THE TOWN OF WOONSOCKET. ALL EROSION CONTROL DEVICES SHALL BE MAINTAINED IN EFFECTIVE CONDITION DURING CONSTRUCTION.
3. THE CONTRACTOR SHALL USE THE LATEST EDITION OF THE "STATE OF RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK" IN CONSTRUCTING THE EROSION AND SEDIMENT CONTROLS INDICATED ON THE PLANS. ALL EROSION AND SEDIMENT CONTROL MEASURES OR WORKS AND REHABILITATION MEASURES MUST CONFORM TO OR EXCEED THE SPECIFICATIONS OR STANDARDS SET OUT IN THIS HANDBOOK.
4. THE CONTRACTOR IS RESPONSIBLE FOR THE TIMELY INSTALLATION, INSPECTION, MAINTENANCE, AND/OR REPLACEMENT OF ALL TEMPORARY AND PERMANENT EROSION CONTROL DEVICES TO ENSURE PROPER OPERATION THROUGHOUT THE LIFE OF THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF PERMANENT MEASURES UNTIL CONSTRUCTION OF THE PROJECT IS COMPLETED OR UNTIL IT IS ACCEPTED BY THE OWNER. THE OWNER IS RESPONSIBLE THEREAFTER.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CLEAN ROADS, CONTROL DUST, AND TAKE ALL NECESSARY MEASURES TO ENSURE THAT THE SITE AND ALL ROADS BE MAINTAINED IN A MUD- AND DUST-FREE CONDITION AT ALL TIMES THROUGHOUT THE LIFE OF THE CONTRACT. DUST CONTROL SHALL INCLUDE, BUT IS NOT LIMITED TO, WATER AND/OR CRUSHED STONE OR COARSE GRAVEL, SUBJECT TO THE APPROVAL OF THE ENGINEER.
6. THE CONTRACTOR SHALL INSTALL ALL PERIMETER SEDIMENT CONTROL BARRIERS AS SHOWN ON THE SITE PLANS OR AS MAY BE REQUIRED TO PREVENT SEDIMENT FLOW TO STORM DRAINS OR SURFACE WATERS. A ROW OF STAKED HAYBALES OR A SILT FENCE SHALL ALSO BE INSTALLED AROUND ANY SOIL STOCKPILE AREAS. CLEANOUT OF ACCULATED SEDIMENT BEHIND PERIMETER SEDIMENT CONTROL BARRIER IS NECESSARY IF ONE-HALF THE ORIGINAL HEIGHT OF THE BARRIER BECOMES FILLED WITH SEDIMENT. REPLACE BARRIER IMMEDIATELY IF BARRIER DECOMPOSED OR BECOMES INEFFECTIVE.
7. TEMPORARY VEGETATIVE COVER SHALL BE APPLIED TO ANY DISTURBED AREAS (INCLUDING SOIL STOCKPILE AREAS) THAT HAVE NOT YET REACHED FINISHED GRADE AS SOON AS POSSIBLE, BUT NOT MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY CEASED, UNLESS THE ACTIVITY IS TO RESUME WITHIN TWENTY-ONE (21) DAYS. TEMPORARY SEEDING MAY BE APPLIED ANYTIME BETWEEN MARCH 1 THROUGH JUNE 15 AND AUGUST 15 THROUGH OCTOBER 1.

   THIS TEMPORARY VEGETATIVE COVER SHALL CONSIST OF 60% OF ANNUAL OR PERENNIAL RYEGRASS AND 40% OF MILLET OR SUDANGRASS OR 100% OF WINTER RYE. ANNUAL OR PERENNIAL RYEGRASS SHALL BE PLANTED AT A RATE OF 1.5 POUNDS PER 1,000 SQUARE FEET, WINTER RYE SHALL BE PLANTED AT A RATE OF 2.5 POUNDS PER 1,000 SQUARE FEET, AND MILLET OR SUDANGRASS SHALL BE PLANTED AT A RATE OF 1.0 POUND PER 1,000 SQUARE FEET.

   LIMESTONE AND FERTILIZER SHALL BE APPLIED ACCORDING TO SOIL TEST RECOMMENDATIONS OFFERED BY THE UNIVERSITY OF MASSACHUSETTS SOIL TESTING LABORATORY. IF SOIL TESTING IS 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 OF 10-10-10 OR EQUIVALENT. APPLY LIMESTONE (EQUIVALENT TO 50 PERCENT CALCIUM PLUS MAGNESIUM OXIDE) AS FOLLOWS: (1) 3 TONS PER ACRE (OR 135 POUNDS PER 1,000 SQUARE FEET) FOR CLAY, CLAY LOAM AND HIGH ORGANIC SOIL, (2) 2 TONS PER ACRE (OR 90 POUNDS PER 1,000 SQUARE FEET) FOR SANDY LOAM, LOAM, OR SILT LOAM, AND (3) 1 TON PER ACRE (OR 45 POUNDS PER 1,000 SQUARE FEET) LOAMY SAND OR SAND. TEMPORARY VEGETATIVE COVER SHALL BE INSTALLED AS OUTLINED IN THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK.
8. PERMANENT VEGETATIVE COVER SHALL BE APPLIED TO ALL DISTURBED AREAS THAT HAVE REACHED FINISHED GRADE AS SOON AS POSSIBLE, BUT NOT MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS PERMANENTLY CEASED. THE RECOMMENDED PERMANENT SEEDING DATES ARE APRIL 1 TO JUNE 15 AND AUGUST 15 TO SEPTEMBER 30. PERMANENT VEGETATIVE COVER SHALL BE SEEDED AS SPECIFIED ON THE LANDSCAPE PLANS.

   LIMESTONE AND FERTILIZER SHALL BE APPLIED ACCORDING TO SOIL TEST RECOMMENDATIONS OFFERED BY THE UNIVERSITY OF MASSACHUSETTS SOIL TESTING LABORATORY. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11.5 POUNDS PER 1,000 SQUARE FEET OF 10-20-20 OR EQUIVALENT. APPLY LIMESTONE (EQUIVALENT TO 50 PERCENT CALCIUM PLUS MAGNESIUM OXIDE) AS FOLLOWS: 4 TONS PER ACRE (OR 180 POUNDS PER 1,000 SQUARE FEET) FOR CLAY, CLAY LOAM AND HIGH ORGANIC SOIL; 3 TONS PER ACRE (OR 135 POUNDS PER 1,000 SQUARE FEET) FOR SANDY LOAM, LOAM, OR SILT LOAM; AND 2 TONS PER ACRE (OR 90 POUNDS PER 1,000 SQUARE FEET) LOAMY SAND OR SAND.
9. AREAS WHICH HAVE BEEN TEMPORARILY OR PERMANENTLY SEEDED SHALL BE MULCHED IMMEDIATELY FOLLOWING SEEDING IN ADDITION TO AREAS WHICH CANNOT BE SEEDED WITHIN THE RECOMMENDED SEEDING DATES AND ANY SOIL STOCKPILE AREAS. TEMPORARY MULCHING SHOULD BE PERFORMED AS SOON AS POSSIBLE, BUT NOT MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY CEASED UNLESS THE ACTIVITY IS TO RESUME WITHIN TWENTY-ONE (21) DAYS.

   ALL MULCHES MUST BE INSPECTED PERIODICALLY, IN PARTICULAR AFTER RAINSTORMS, TO CHECK FOR RILL EROSION. WHERE EROSION IS OBSERVED, ADDITIONAL MULCH MUST BE APPLIED. IF NETTING IS USED, THE NET SHALL BE INSPECTED AFTER RAINSTORMS FOR DISLOCATION OR FAILURE. IF WASHOUTS OR BREAKAGE OCCUR, THE NET MUST BE REINSTALLED AS NECESSARY AFTER REPAIRING DAMAGE TO SLOPE. INSPECTIONS SHALL TAKE PLACE UNTIL GRASSES ARE FIRMLY ESTABLISHED. GRASS IS CONSIDERED TO BE FIRMLY ESTABLISHED AT A MINIMUM HEIGHT OF THREE (3) INCHES.

   STRAW OR HAY MULCH, WOOD FIBER MULCH, AND HYDROMULCH ARE RECOMMENDED. STRAW OR HAY MULCH SHOULD BE APPLIED AT A RATE OF 2 TONS PER ACRE. WOOD FIBER MULCH SHOULD BE APPLIED AT A RATE OF 1,500-2,000 POUNDS PER ACRE, OR HYDROMULCH APPLIED AT A RATE OF 1,500 POUNDS PER ACRE. WOOD FIBER MULCH SHOULD NOT BE USED ALONE IN THE WINTER OR DURING HOT, DRY WEATHER. STRAW OR HAY MULCH MUST BE ANCHORED IMMEDIATELY AFTER SPREADING TO PREVENT WINDBLOWING. MULCH ANCHORING SHOULD ALSO BE USED ON SLOPES GREATER THAN THREE (3) PERCENT AND CONCENTRATED FLOW AREAS SUCH AS DIVERSION AND WATERWAY CHANNELS.
10. IF PERMANENT OR TEMPORARY SEEDING CANNOT BE COMPLETED IMMEDIATELY OR WITHIN THE RECOMMENDED SEEDING DATES, USE THE TEMPORARY MULCHING MEASURE TO PROTECT THE SITE AND DELAY SEEDING UNTIL THE NEXT RECOMMENDED SEEDING PERIOD.
11. ANY EXISTING OR PROPOSED STORMWATER DRAINAGE STRUCTURES THAT MAY BE SUBJECT TO SEDIMENTATION SHALL BE PROTECTED WITH STAKED HAYBALES, SILT FENCE, SILT SACKS, OR OTHER APPROVED MEASURES THROUGHOUT THE ENTIRE CONSTRUCTION PERIOD.
12. ALL EXCESS EXCAVATED MATERIALS, EXCESS FILL, EXCESS CONSTRUCTION MATERIALS, AND DEBRIS SHALL BE REMOVED FROM THE SITE AND SHALL BE DISPOSED OF IN ACCORDANCE WITH APPLICABLE LAWS.
13. WASTE DISPOSAL: MATERIALS WHICH COULD BE A POTENTIAL SOURCE OF STORMWATER POLLUTION SUCH AS GASOLINE, DIESEL FUEL, HYDRAULIC OIL, ETC., SHALL BE STORED AT THE END OF EACH DAY IN A STORAGE TRAILER OR COVERED LOCATION AND TAKEN OFF-SITE AND PROPERLY DISPOSED OF. ALL TYPES OF WASTE GENERATED AT THIS SITE SHALL BE DISPOSED OF IN A MANNER CONSISTENT WITH STATE LAW AND/OR REGULATIONS.
14. CONTROL OF ALLOWABLE NON-STORMWATER DISCHARGES: IF ALLOWABLE NON-STORM WATER DISCHARGES ARE OCCURRING AT THE SITE, SUCH DISCHARGES SHALL BE VISUALLY OBSERVED AND RECORDED AS OUTLINED BELOW AND IN ACCORDANCE WITH PART II OF THE RIPDES GENERAL PERMIT. THE LIST OF EXPECTED SOURCES OF ALLOWABLE NON-STORM WATER DISCHARGES FOR THIS PROJECT ARE AS FOLLOWS: (1) DISCHARGE FROM VEHICLE WASHDOWN WHERE NO DETERGENTS ARE USED, (2) EXTERNAL BUILDING WASHDOWN WHERE NO DETERGENTS ARE USED, (3) THE USE OF WATER TO CONTROL DUST, (4) FIRE HYDRANT FLUSHINGS, (5) LAWN WATERING, (6) POTABLE WATER SOURCES INCLUDING WATERLINE FLUSHINGS, (8) IRRIGATION DRAINAGE, (9) PAVEMENT WASHWATERS WHERE SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE NOT OCCURRED (UNLESS ALL SPILLED MATERIALS HAVE BEEN REMOVED) AND WHERE NO DETERGENTS ARE USED, AND (10) FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH PROCESS SUCH AS SOLVENTS OR CONTAMINATED BY CONTACT WITH SOILS WHERE SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAS OCCURRED.
15. GOOD HOUSEKEEPING: THE PROJECT SITE SHALL PROVIDE FOR THE MINIMIZATION OF EXPOSURE OF CONSTRUCTION DEBRIS (INCLUDING, BUT NOT LIMITED TO, INSULATION, WIRING, PAINTS AND PAINT CANS, SOLVENTS, WALL BOARD, ETC.) TO PRECIPITATION BY MEANS OF DISPOSAL AND/OR PROPER SHELTER OR COVER. CONSTRUCTION WASTE MUST BE PROPERLY DISPOSED OF IN ORDER TO AVOID EXPOSURE TO PRECIPITATION AT THE END OF EACH WORKING DAY.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT WETLANDS

1. THE CONTRACTOR SHALL FOLLOW THE RULES AND REGULATIONS GOVERNING THE ADMINISTRATION AND ENFORCEMENT OF THE FRESHWATER WETALNDS ACT BY THE STATE OF RHODE ISLAND DEPATMENT OF ENVIRONMENTAL MANAGEMENT.
2. THE CONTRACTOR SHALL ADHERE TO ALL CONDITIONS OF THE APPROVED WETLAND PERMIT.

SPECIAL CONDITIONS

1. WATERFOWL EXCLUSION FENCE SHALL BE REMOVED BY THE CONTRACTOR 1-YEAR AFTER INSTALLATION.
2. THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF WOONSOCKET PUBLIC WORKS DEPARTMENT PRIOR TO OPERATING THE DRAW DOWN VALVE.
3. IN THE EVENT THE DRAW DOWN VALVE IS NOT FUNCTIONING AS DESIGNED, THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A MEANS AND METHODS USING PUMPS AND DEWATERING BASINS TO MAINTAIN THE REQUIRED WATER ELEVATION FOR THE INSTALLATION OF THE SEGMENTAL RETAINING WALL.
4. THE WATER ELEVATION OF THE POND SHALL ONLY BE LOWERED FOR THE CONSTRUCTION OF THE SEGMENTAL RETAINING WALL. THE WATER SURFACE ELEVATION OF THE POND SHOULD BE LOWERED TO EXPOSE THE POND EDGE AT THE LOCATION OF THE SEGMENTAL RETAINING WALL. THE WATER ELEVATION OF THE POND SHALL NOT BE LOWERED BELOW ELEVATION 158.40 TO ENSURE THE ORGANISMS WITHIN THE POND ECOSYSTEM WILL NOT BE HARMED. TRENCHES SHALL BE DEWATERED DURING CONSTRUCTION OF PORTION OF WALL BELOW FINISH GRADE.
5. AT NO TIME SHALL CONSTRUCTION EQUIPMENT AND MATERIALS BE STORED OR USE THE EXISTING PEDESTRIAN BRIDGES.

ABBREVIATIONS

GENERAL				UTILITY			
APPROX	APPROXIMATE	PCC	PRE CAST CONCRETE CURB	CB	CATCH BASIN	INV	INVERT ELEVATION
BIT.	BITUMINOUS PAVEMENT	PROP	PROPOSED	CMP	CORRUGATED METAL PIPE	PVC	POLYVINYL CHLORIDE PIPE
BW	BOTTOM OF WALL	REM	REMOVE	CPP	CORRUGATED POLYETHYLENE PIPE	RCP	REINFORCED CONCRETE PIPE
CC	CONCRETE CURB	R&D	REMOVE AND DISPOSE	DCB	DOUBLE CATCH BASIN	RD	ROOF DRAIN
CCB	CAPE CODE BERM	R&R	REMOVE AND RESET	DI	DUCTILE IRON PIPE	SMH	SEWER MANHOLE
ELEV	ELEVATION	R&S	REMOVE AND STACK	F&G	FRAME AND GRATE	TSV	TAPPING SLEEVE, VALVE AND BOX
EXIST	EXISTING	TOS	TOP OF SLOPE	F&C	FRAME AND COVER	UP	UTILITY POLE
GC	GRANITE CURB	TW	TOP OF WALL	HDPE	HIGH DENSITY POLYETHYLENE PIPE		
MAX	MAXIMUM	TYP	TYPICAL	HYD	HYDRANT		
MIN	MINIMUM	VGC	VERTICAL GRANITE CURB				
NTS	NOT TO SCALE						

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Charles A Horbert

RECEIVED SEP 5 2014

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.				

SEAL

SHAWN M. MARTIN
No. 7487
9/5/14
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

SCALE:
HORZ.: NOT TO SCALE
VERT.:
DATUM:
HORZ.:
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CASS PARK

GENERAL NOTES & LEGEND

CASS POND IMPROVEMENTS

WOONSOCKET RHODE ISLAND

PROJ. No.: 20130545.A20
DATE: SEPTEMBER 5, 2014

GI-002

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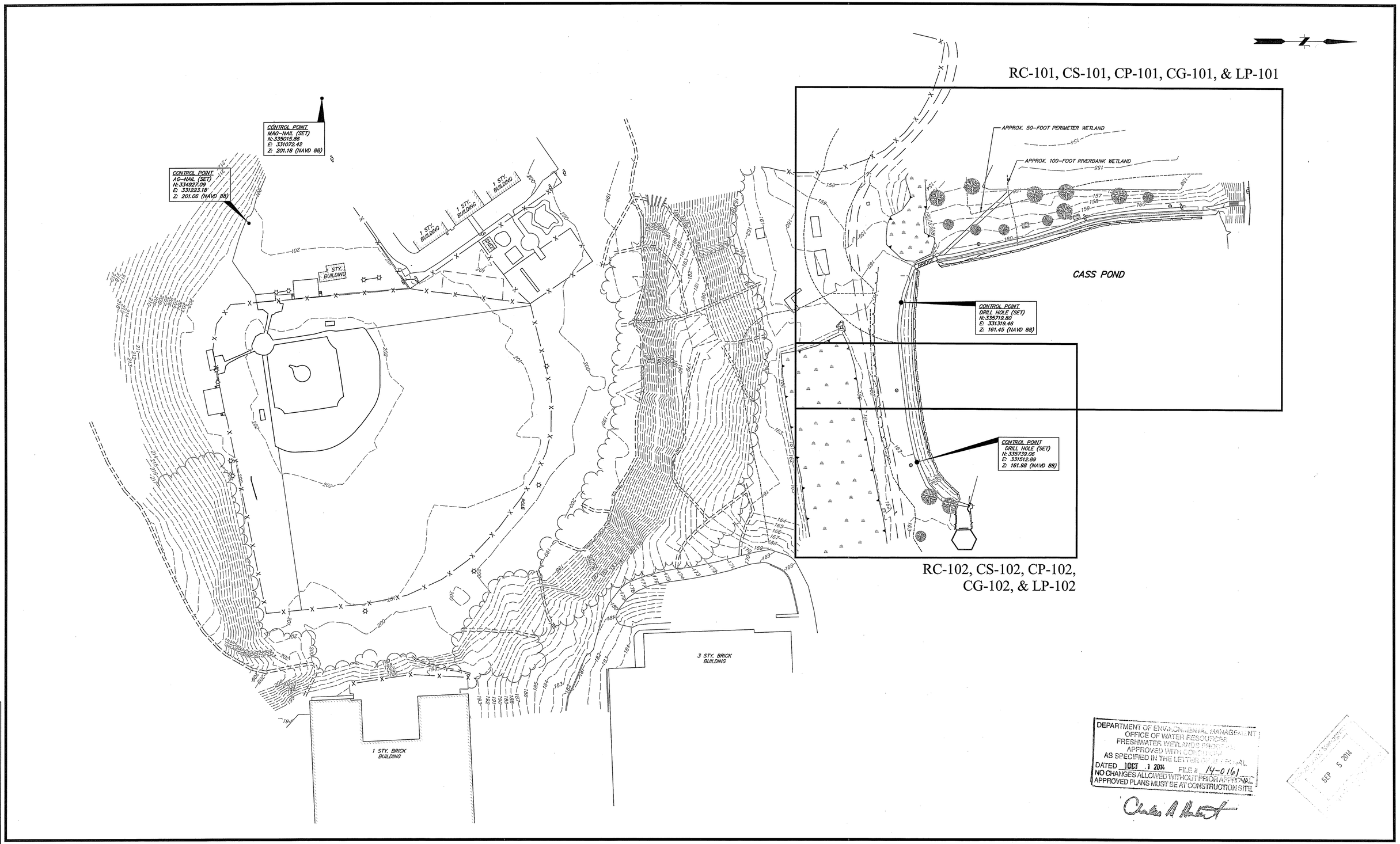

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OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
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DATED OCT 1 2014 FILE # 14-0161
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SEAL

SHAWN M. MARTIN
No. 7487
9/3/14
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

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CASS PARK

INDEX PLAN

CASS POND IMPROVEMENTS

WOONSOCKET RHODE ISLAND

PROJ. No.: 20130545.A20
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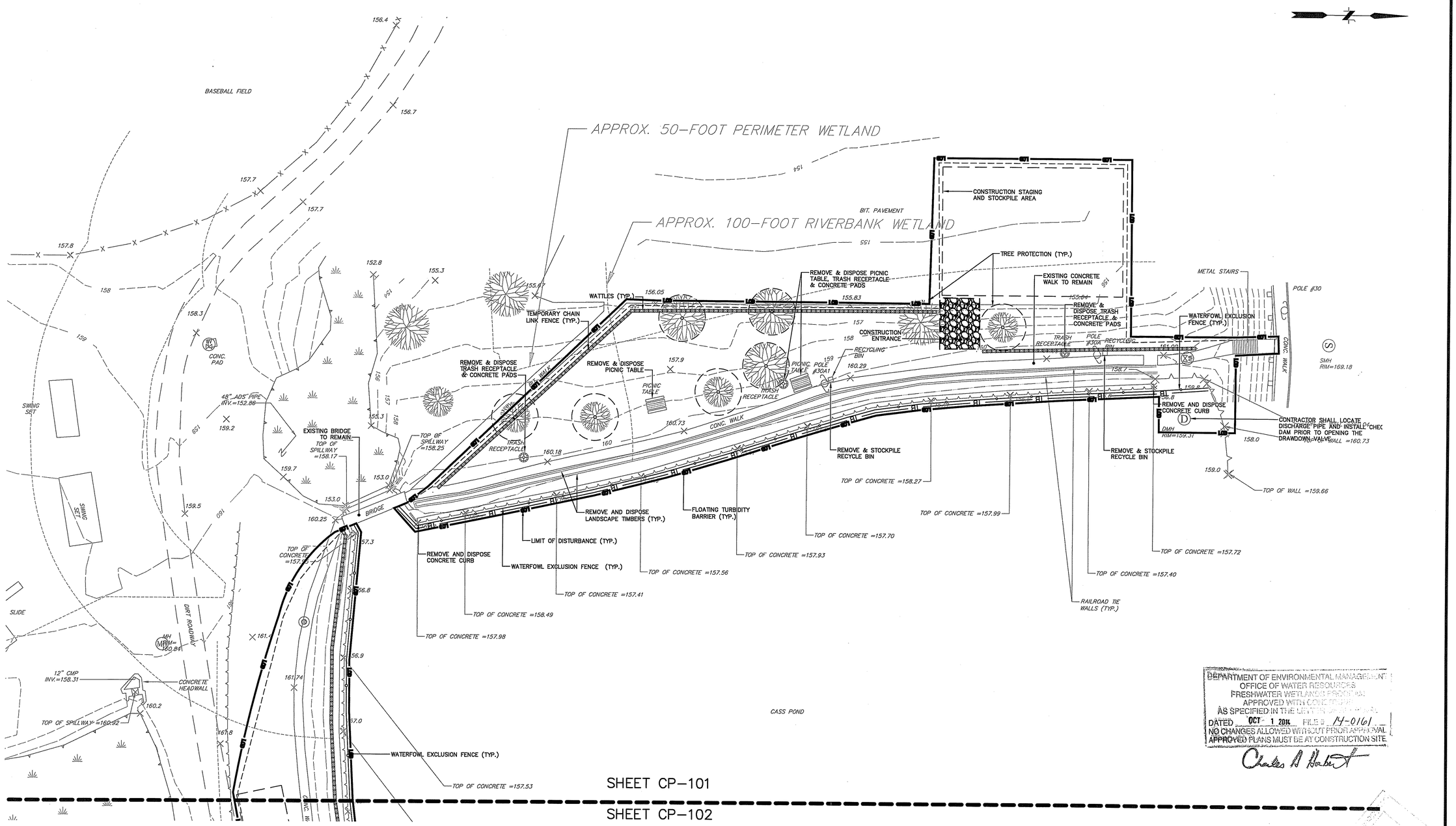
GI-003



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SEAL

SHAWN M. MARTIN
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CASS PARK

SITE PREPARATION PLAN No. 1

CASS POND IMPROVEMENTS

WOONSOCKET RHODE ISLAND

PROJ. No.: 20130545.A20
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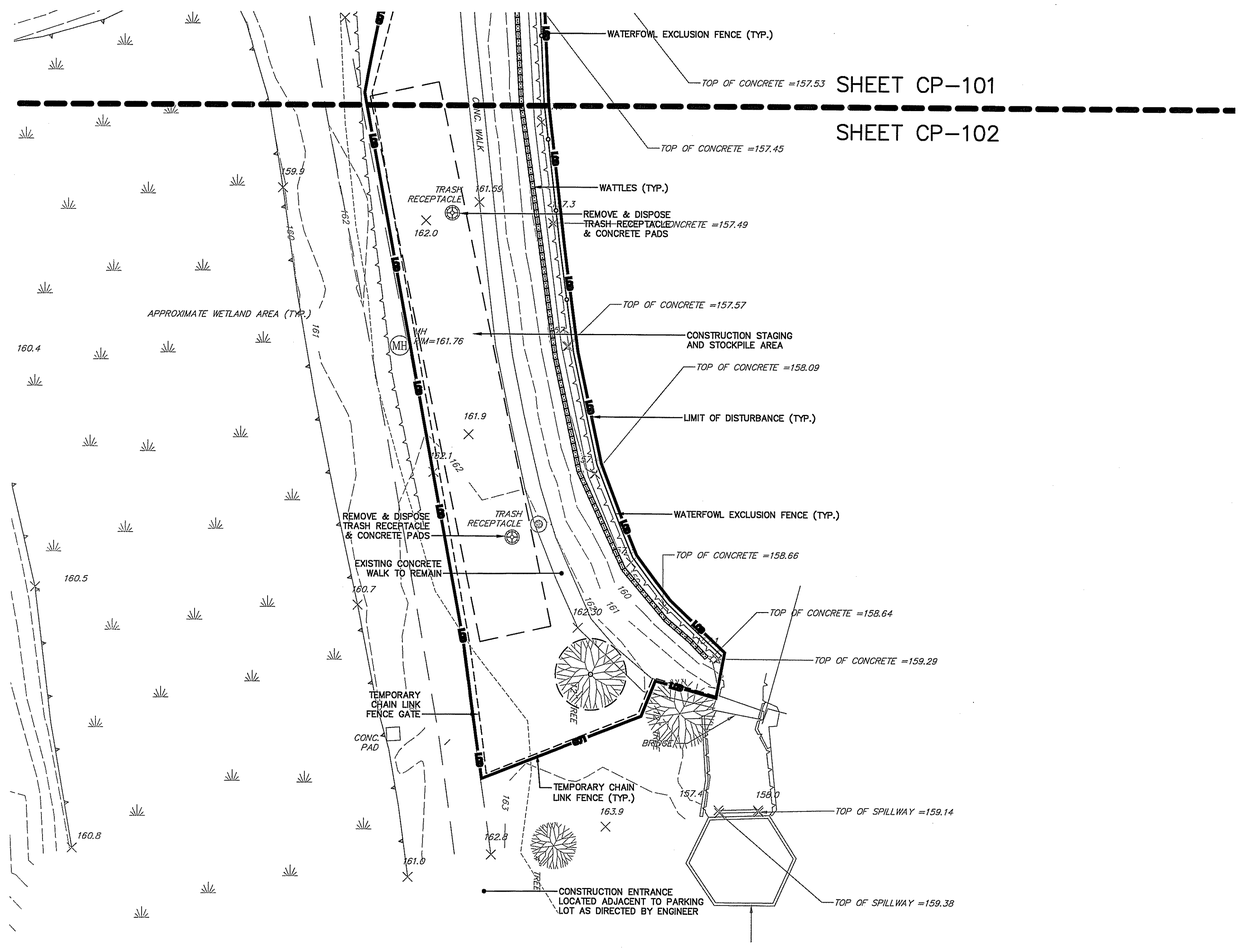
CP-101



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CASS PARK

SITE PREPARATION PLAN No. 2

CASS POND IMPROVEMENTS

WOONSOCKET RHODE ISLAND

PROJ. No.: 20130545.A20
DATE: SEPTEMBER 5, 2014

CP-102

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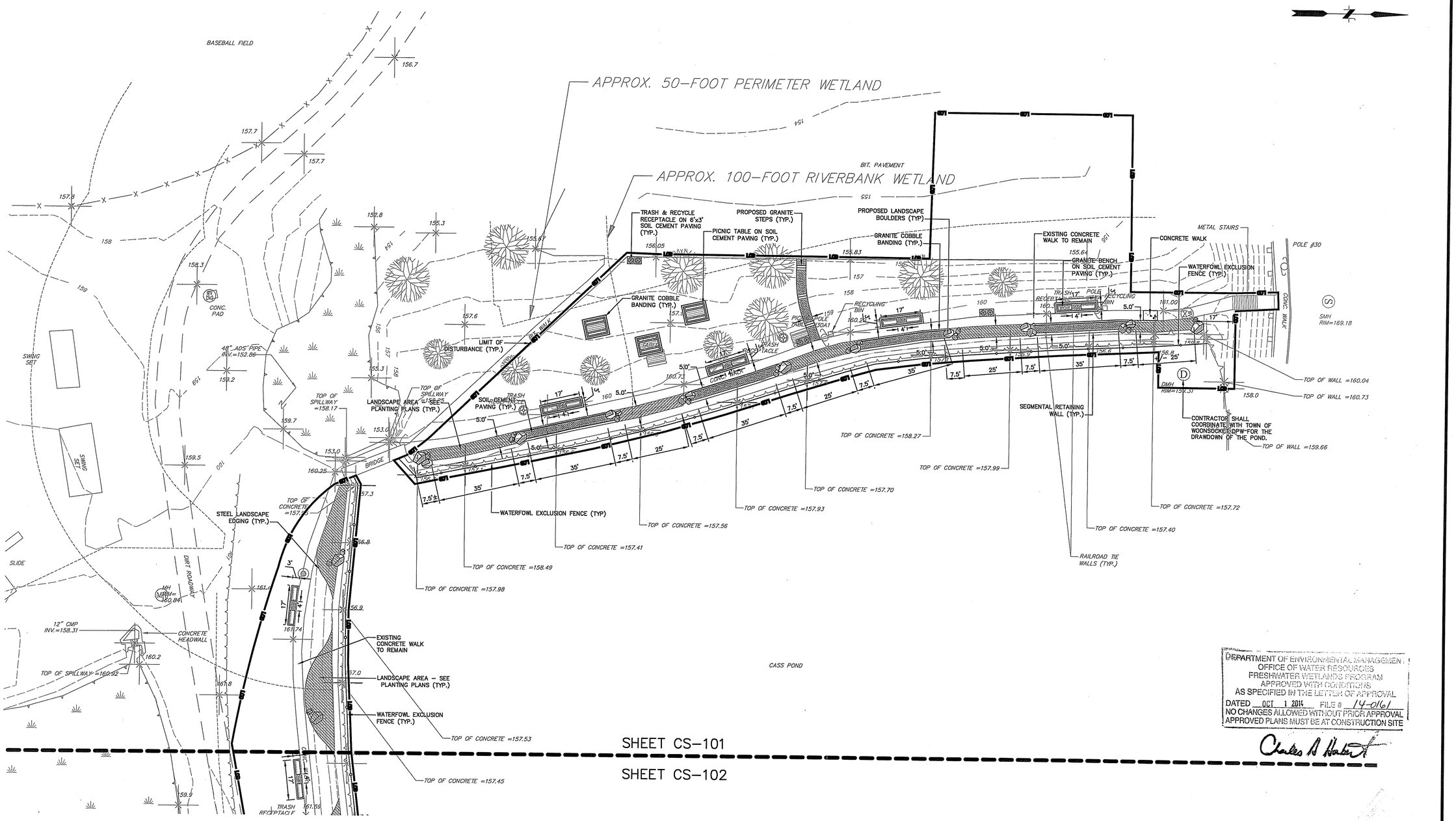

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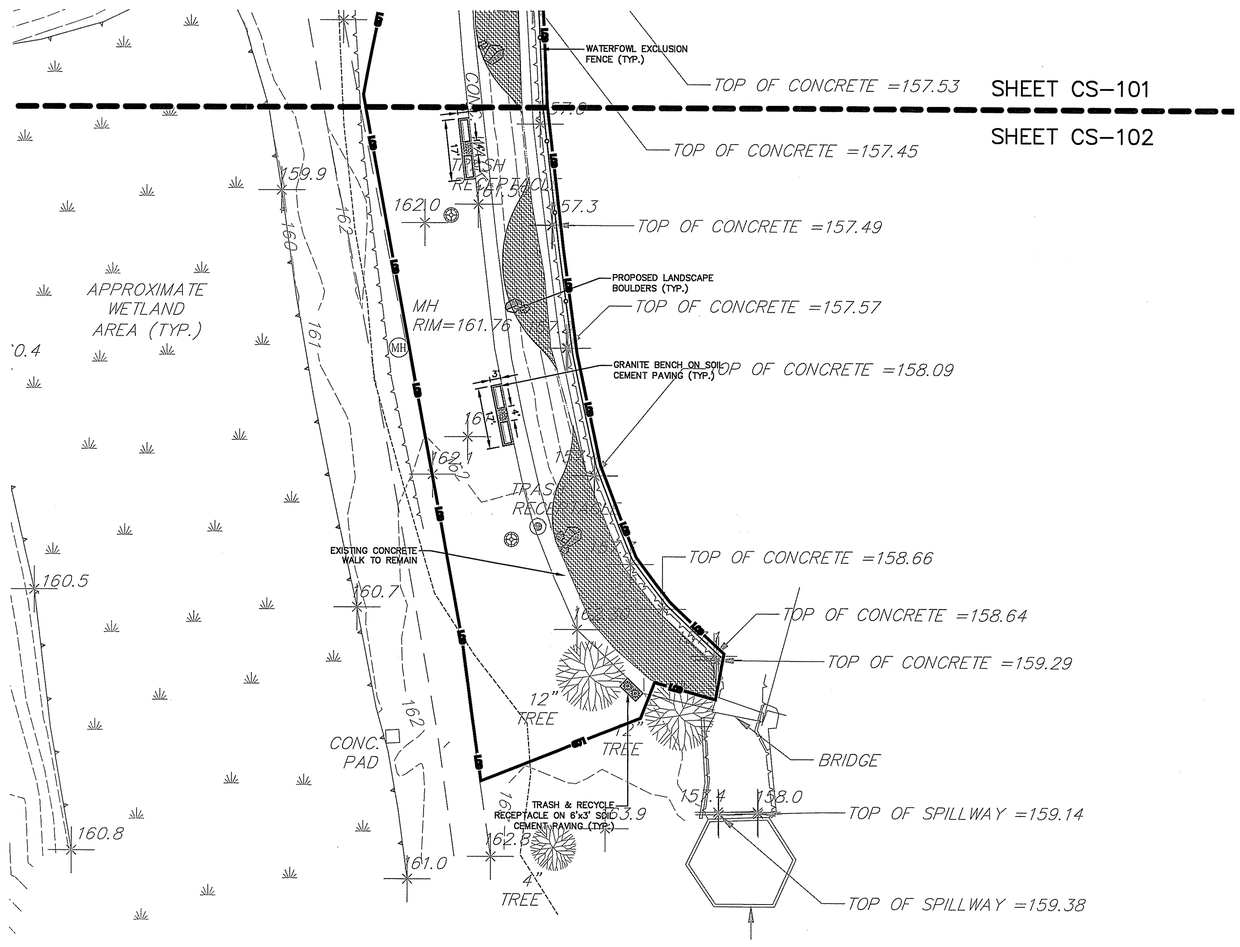
CASS PARK
SITE LAYOUT PLAN No. 1
CASS POND IMPROVEMENTS
WOONSOCKET RHODE ISLAND

PROJ. No.: 20130545.A20
DATE: SEPTEMBER 5, 2014

CS-101



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CASS PARK

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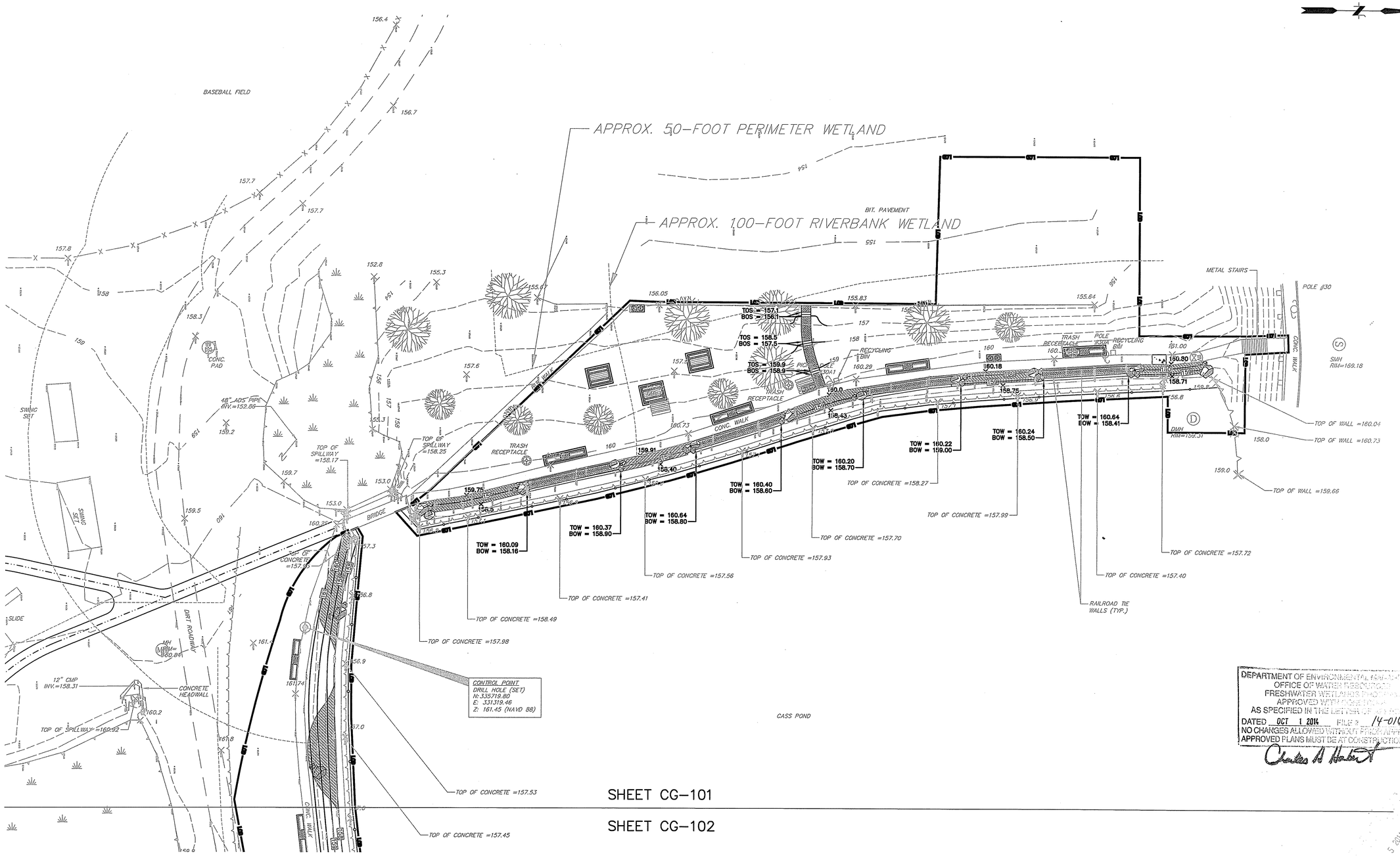

SHEET CG-101

SHEET CG-102

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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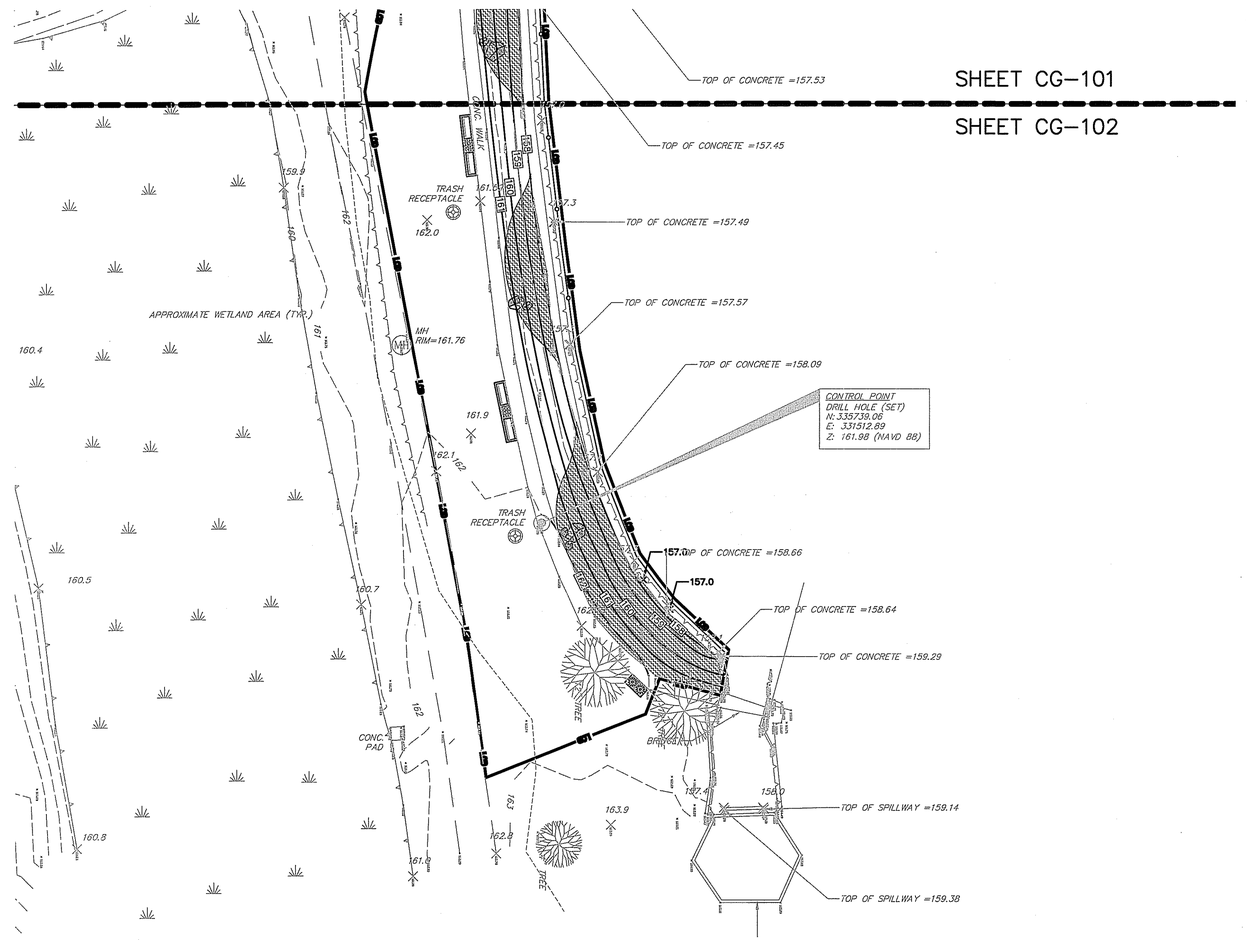
CASS PARK
SITE GRADING PLAN No. 1
CASS POND IMPROVEMENTS
WOONSOCKET RHODE ISLAND

PROJ. No.: 20130545.A20
DATE: SEPTEMBER 5, 2014
CG-101



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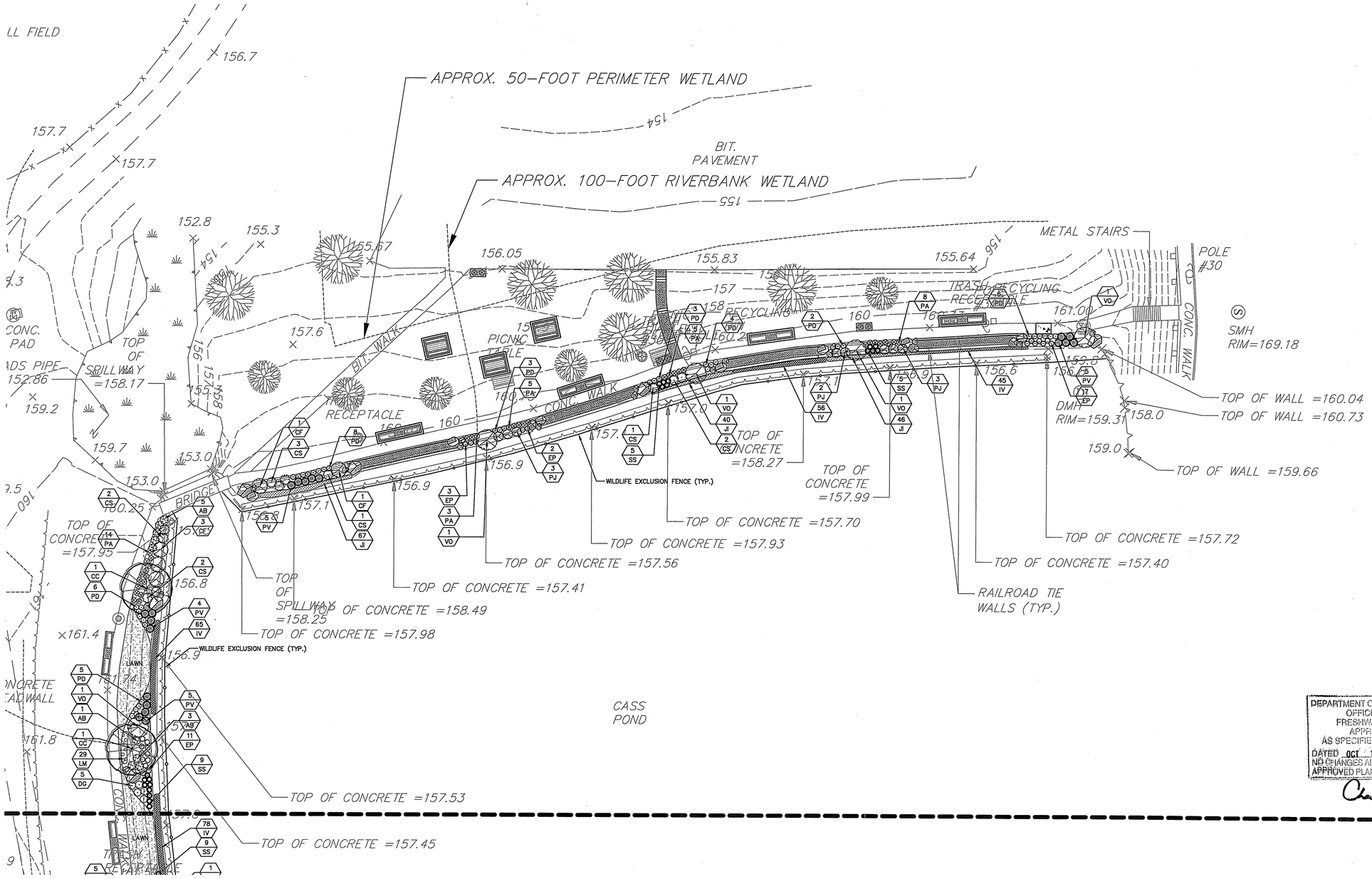

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CASS PARK

SITE PLANTING PLAN No. 1

CASS POND IMPROVEMENTS

WOONSOCKET RHODE ISLAND

PROJ. No.: 20130545.A20
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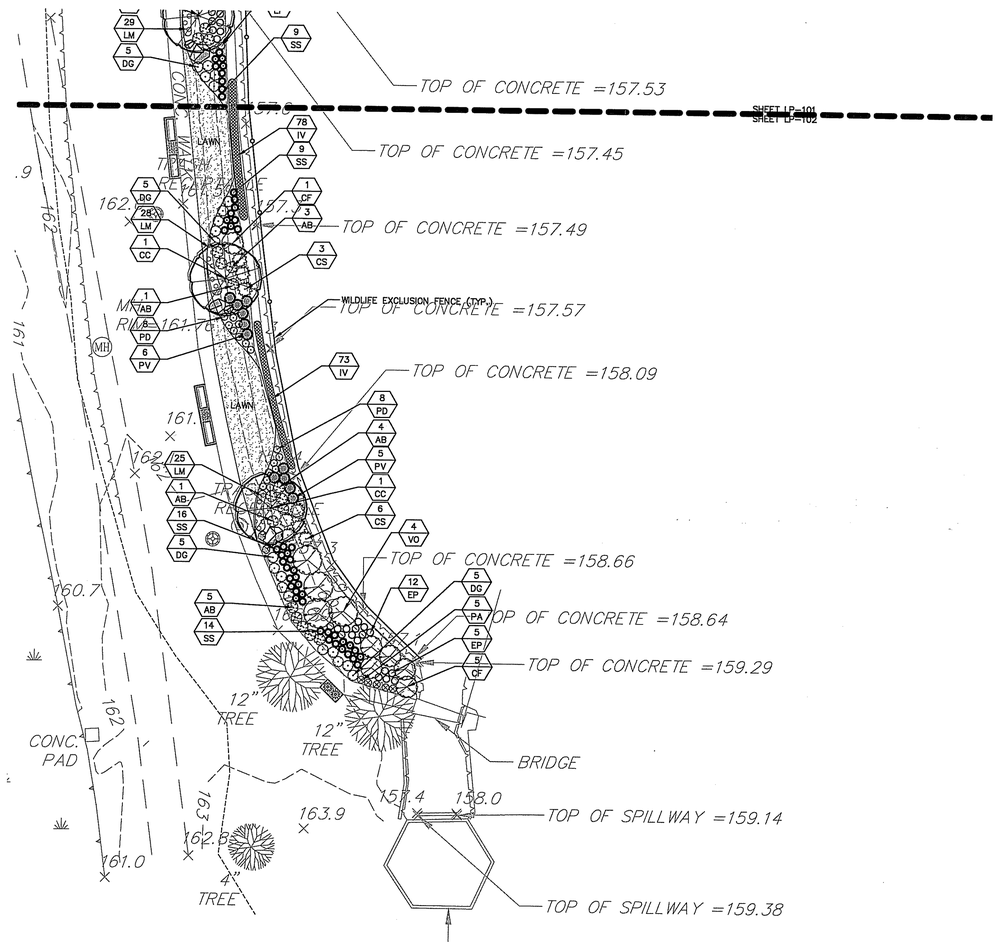

PLANTING NOTES

1. ALL PLANTING MATERIAL TO BE NURSERY GROWN STOCK SUBJECT TO A.A.N. STANDARDS.

2. THE CONTRACTOR SHALL SUPPLY ALL PLANTS IN QUANTITIES SUFFICIENT TO COMPLETE THE WORK SHOWN ON THE DRAWINGS AND LISTED IN THE PLANT LIST. IN THE EVENT OF A DISCREPANCY BETWEEN QUANTITIES SHOWN IN THE PLANT LIST AND THOSE REQUIRED BY THE DRAWINGS, THE LARGER NUMBER SHALL APPLY.

3. ALL PLANTS SHALL BE APPROVED PRIOR TO INSTALLATION AND SHALL BE LOCATED ON SITE BY THE CONTRACTOR FOR THE APPROVAL OF THE LANDSCAPE ARCHITECT. ANY INSTALLATIONS WHICH WERE NOT APPROVED BY THE LANDSCAPE ARCHITECT AND WHICH ARE SUBSEQUENTLY REQUESTED TO BE MOVED WILL BE DONE AT THE CONTRACTORS EXPENSE.

4. PRECISE LOCATION OF ITEMS NOT DIMENSIONED ON THE PLAN ARE TO BE FIELD STAKED BY THE CONTRACTOR AND SHALL BE SUBJECT TO THE REQUIREMENTS SPECIFIED IN THE PREVIOUS NOTE.

5. ALL SHRUB MASSINGS AND TREE PITS SHALL BE MULCHED TO A DEPTH OF 3" WITH SHREDDED PINE BARK MULCH.

6. TREES SHALL NOT BE STAKED UNLESS OTHERWISE NOTED.

7. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGED VEGETATION AND SHALL REPLACE OR REPAIR ANY DAMAGED MATERIAL, AT HIS OWN EXPENSE. THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT 1-800-922-4455 PRIOR TO CONSTRUCTION.

8. ALL SHRUB AND GROUNDCOVER PLANTING AREAS SHALL HAVE CONTINUOUS BEDS OF TOPSOIL 12" DEEP. ALL SOD AND HYDROSEED AREAS SHALL HAVE A MINIMUM TOPSOIL BED OF 6".

9. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES IN THE FIELD. WHERE PLANT MATERIAL MAY INTERFERE WITH UTILITIES, THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT TO COORDINATE THEIR INSTALLATION.

10. FOR PLANTING SOIL MIX, SEE SPECIFICATIONS OR PLANTING DETAILS.

11. ALL EXISTING RILL, GULLY OR CHANNEL EROSION SHALL BE FILLED WITH APPROPRIATE BACKFILL MATERIAL, FINE RAKED, SCARIFIED AND STABILIZED WITH APPROPRIATE VEGETATIVE MATERIAL AND / OR APPROPRIATE SEDIMENTATION AND EROSION CONTROL MEASURES.

12. ADJUSTMENTS IN THE LOCATION OF THE PROPOSED PLANT MATERIAL AS A RESULT OF EXISTING VEGETATION TO REMAIN SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

13. THE CONTRACTOR IS RESPONSIBLE FOR ALL MAINTENANCE REPAIR AND REPLACEMENT OF PLANT MATERIAL, AS REQUIRED, FOR THE DURATION OF THE PROJECT AND SUBSEQUENT WARRANTY PERIOD.

14. PLANTINGS INSTALLED IN THE DRY SUMMER MONTHS AND / OR LAWN SEEDED OUT OF SPRING OR FALL PERIODS, IF ALLOWED BY OWNER, WILL REQUIRE AGGRESSIVE IRRIGATION PROGRAMS AT THE CONTRACTOR'S EXPENSE, UNLESS OTHERWISE DIRECTED BY THE OWNER.

15. FINAL WATER LEVEL MUST BE ESTABLISHED BEFORE INSTALLATION OF WATER SPECIES.

16. UPON COMPLETION OF PLANTING, REMOVE FROM SITE ALL EXCESS SOIL, MULCH, AND MATERIALS AND DEBRIS RESULTING FROM WORK OPERATIONS. CLEAN UP SHOULD BE COMPLETED AT THE END OF EACH WORKING DAY. RESTORE TO ORIGINAL CONDITIONS ALL DAMAGED PAVEMENTS, PLANTING AREAS, STRUCTURES AND LAWN AREAS RESULTING FROM LANDSCAPING OPERATIONS.

17. CONTRACTOR SHALL SURVEY, LOCATE, AND PROTECT ALL TREES WITHIN AREAS SHOWN AS "EXISTING VEGETATION TO REMAIN" WITHIN THE DEVELOPMENT ENVELOPE FOR REVIEW BY L.A. PRIOR TO CLEARING OPERATIONS.

18. CONTRACTOR TO RESEED ALL DISTURBED AREAS.

Per R.I.D.E.M. - Only native plants are to be utilized for the "in-pond" plantings. Please refer to the URI/CRMC Coastal Plant Guide for appropriate species.

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Charles A. Horbert

PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	QTY.	SIZE
	TREES			
CC	CERCIS CANADENSIS	EASTERN REDBUD	4	2.5"-3" CAL.
	SHRUBS			
AB	AZALEA BIXBY	AZALEA BIXBY	23	1 GAL.
CF	CORNUS SERICEA 'FLAVIRAMEA'	YELLOW TWIG DOGWOOD	11	3 GAL.
CS	CORNUS STOLONIFERA 'ARCTIC FIRE'	ARCTIC FIRE REDOSIER DOGWOOD	20	3 GAL.
VO	VIBURNUM OPULUS VAR. AMERICANUM	AMERICAN CRANBERRYBUSH	9	5 GAL.
	PERENNIALS/GRASSES/GROUNDCOVERS			
DG	DEUTZIA GRACILIS 'CHARDONNAY PEARLS'	SLENDER DEUTZIA	20	1 GAL.
EP	ECHINACEA PURPUREA	CONEFLOWER	40	1 GAL.
IV	IRIS VIRGINICA	SOUTHERN BLUE FLAG IRIS	317	PLUG
JI	JUNCUS INFLEXUS	RUSH	153	PLUG
LM	LIRIOPE MUSCARI	LILYTURF	82	1 GAL.
PA	PENNISETUM ALOPECUROIDES 'LITTLE BUNNY'	LITTLE BUNNY FOUNTAIN GRASS	40	1 GAL.
PD	PENSTEMON DIGITALIS 'HUSKER RED'	BEARDTONGUE	53	1 GAL.
PV	PANICUM VIRGATUM 'DUST DEVIL'	'DUST DEVIL' SWITCH GRASS	30	3 GAL.
SS	SCHIZACHYRIUM SCOPARIUM 'THE BLUES'	'THE BLUES' LITTLE BLUESTEM	58	1 GAL.

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2/3/14

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CASS PARK

SITE PLANTING PLAN No. 2

CASS POND IMPROVEMENTS

WOONSOCKET RHODE ISLAND

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LP-102

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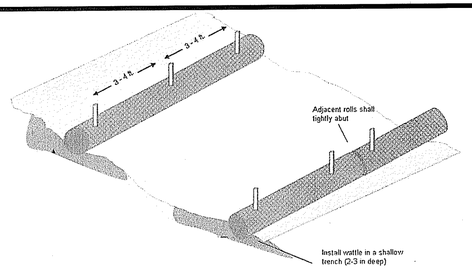
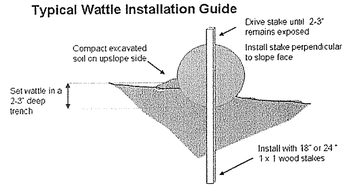


Typical Wattle Installation Guide



NOTES:

1. WATTLES SHALL BE INSTALLED BY THE CONTRACTOR AS INDICATED ON THE CONTRACT DRAWINGS.
2. WATTLES SHALL BE TRENCHED APPROXIMATE 2–3 INCHES AND STAKED SUCH THAT WATTLES DIRECTLY CONTACT SOIL AND PRECLUDE UNDERMINING OR BLOWOUTS. THE TRENCH SHALL BE APPROXIMATELY 9 INCHES WIDE. STAKES SHALL BE DRIVEN THROUGH THE CENTER OF THE WATTLE AT A SPACING OF 3–4 FEET ON CENTER AND NO GREATER THAN 6"FROM THE EACH END OF THE WATTLE. STAKES SHALL BE 1–INCH BY 1–INCH WOODEN STAKES WITH A LENGTH OF 18–24 INCHES. COMPACT SOIL EXCAVATED TO CREATE TRENCH ON UPHILL SIDE SIDE.
3. ENDS OF ADJACENT WATTLES SHALL BE TIGHTLY BUTTED OR OVERLAPPED SO THAT NO OPENING EXISTS FOR WATER TO PASS THROUGH. WATTLES SHALL BE FREE OF DAMAGE OR DEFECTS WHEN DELIVERED TO THE SHIPPER. NO VEHICLES SHALL BE DRIVEN OVER WATTLES.
4. WATTLES SHALL BE 12–INCH WS1210 MANUFACTURED BY NORTH AMERICAN GREEN, OR APPROVED EQUAL.

WATTLE

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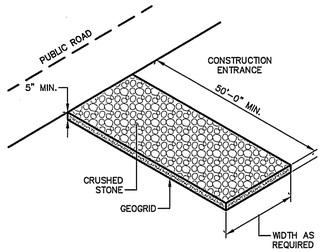

NOTE:
SHALL BE IN ACCORDANCE WITH SECTION 211 OF THE R.I. STANDARD SPECIFICATIONS.

CONSTRUCTION ENTRANCE (R.I. STD. 9.9.0)

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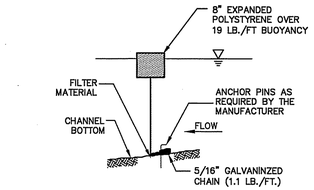
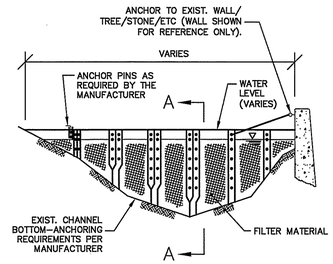


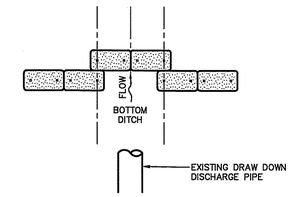
SECTION A–A



ELEVATION

FLOATING TURBIDITY BARRIER

SCALE: N.T.S.

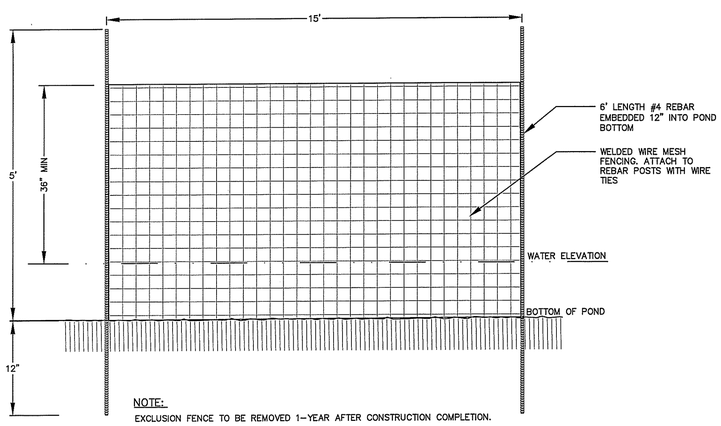


NOTES:

1. SHALL BE IN ACCORDANCE WITH SECTION 206 OF THE R.I. STANDARD SPECIFICATIONS.
2. THE BALES ARE TO BE EMBEDDED A MINIMUM OF 3" INTO THE EXISTING GROUND, HIGHWAY SLOPE OR DITCH SECTION.
3. CONTRACTOR SHALL ENSURE THE INSTALLATION OF THE HAYBALES WILL PREVENT EROSION AND SEDIMENT DOWNSTREAM.

CHECK DAM

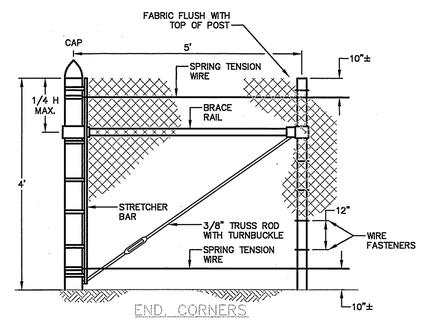
SCALE: N.T.S.



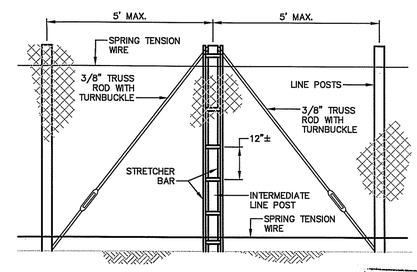
NOTE:
EXCLUSION FENCE TO BE REMOVED 1–YEAR AFTER CONSTRUCTION COMPLETION.

WATERFOWL EXCLUSION FENCE

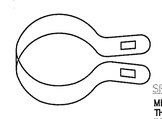
SCALE: N.T.S.



END. CORNERS



INTERMEDIATE POST



SPRING TENSION WIRE

MINIMUM OF (5) TURNS AROUND THE SPRING TENSION WIRE TO END INSTALLATION. ALL BANDS SHALL BE ROUND ON ROUND POSTS.

END BAND

NOTES:

1. CHAIN LINK FENCE TO BE INSTALLED IN ACCORDANCE WITH SECTION 831 OF THE RIDOT STANDARD SPECIFICATIONS.
2. BOTH TOP AND BOTTOM SELVAGE TO HAVE TWISTED AND BARBED FINISH UNLESS OTHERWISE NOTED.
3. GRADE OF FENCE TO BE PARALLEL WITH THE GRADE OF SIDEWALKS, CURBING, GROUND OR TOP OF WALL.
4. INTERMEDIATE POST INTERVALS NOT TO EXCEED 500 FEET.
5. SPRING TENSION WIRE TO BE FASTENED TO FABRIC WITH 11 GAUGE HOG RINGS AT 1' INTERVALS.
6. SPRING TENSION WIRE TO BE FASTENED TO LINE POSTS WITH CLIPS.
7. POST TO BE DRIVEN.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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FRESHWATER WETLANDS PROGRAM
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APPROVED PLANS MUST BE ATTACHED TO THE PERMIT

Charles A Horbert

SEP 5 2014

TEMPORARY CONSTRUCTION FENCE

SCALE: N.T.S.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.				

SEAL

SHAWN M. MARTIN
No. 7487
9/5/14
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

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HORZ.:
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0
GRAPHIC SCALE

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401.861.3070
www.fando.com

CASS PARK

DETAILS

CASS POND IMPROVEMENTS

WOONSOCKET RHODE ISLAND

PROJ. No.: 20130545.A20
DATE: SEPTEMBER 5, 2014

CD-501

File Path: J:\DWG\P2013\0545\A20\Civil\Plan\20130545A20_DET01.dwg Layout: CD-501 Plotted: Wed, September 03, 2014 - 5:07 PM User: jmalo
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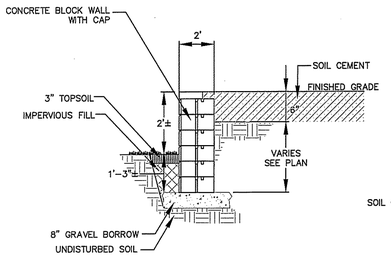
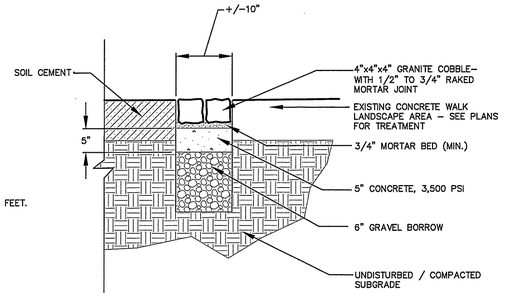


NOTES:

1. 1 INCH DEEP BEVELED JOINT AT TOP AND FACE OF CURB EVERY 10 FEET.
2. 1/2 INCH EXPANSION JOINT AND FILLER EVERY 30 FEET.
3. LOWER WATER ELEVATION DURING CONSTRUCTION

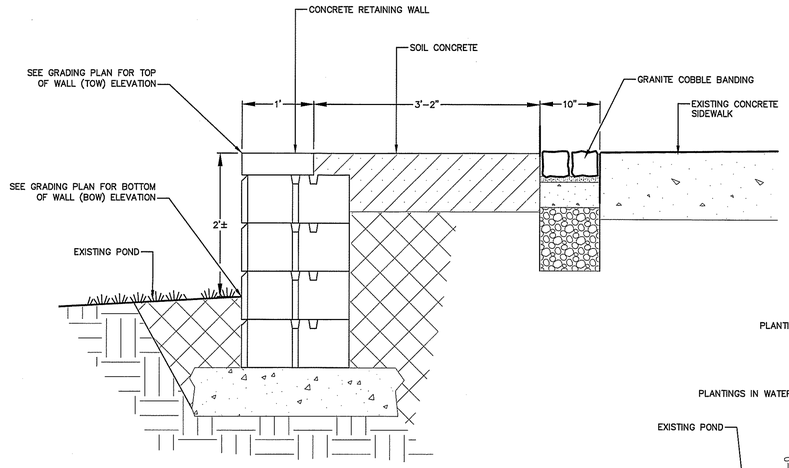
SEGMENTAL RETAINING WALL

SCALE: N.T.S.



GRANITE COBBLE BANDING

SCALE: N.T.S.

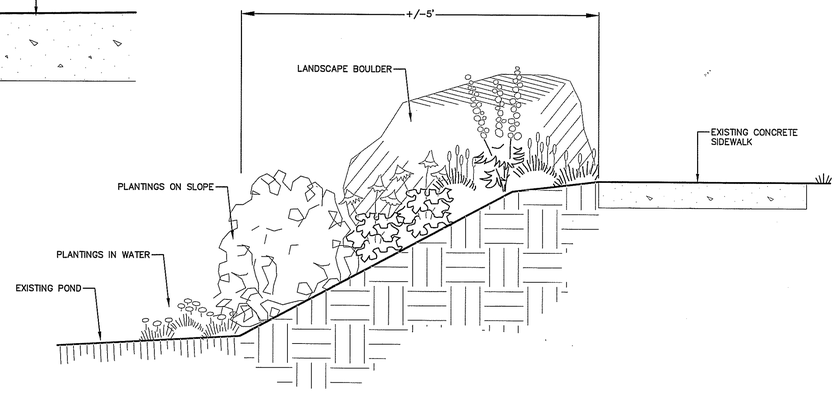


NOTE:

SEE SEGMENTAL RETAINING WALL, GRANITE COBBLE BANDING, AND SOIL CEMENT DETAILS

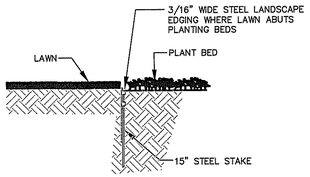
SEGMENTAL RETAINING WALL CROSS SECTION

SCALE: N.T.S.



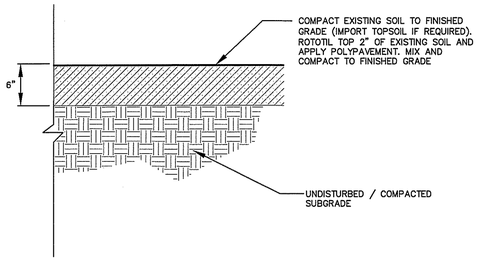
PLANT BED CROSS SECTION

SCALE: N.T.S.



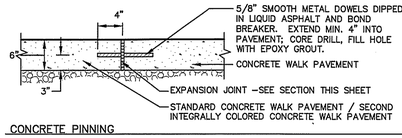
STEEL LANDSCAPE EDGING

SCALE: N.T.S.

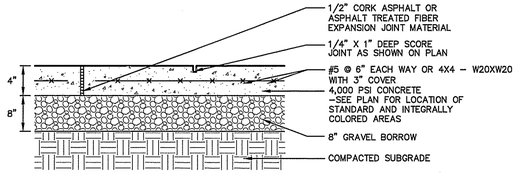


SOIL CEMENT - POLYPAVE

SCALE: N.T.S



CONCRETE PINNING

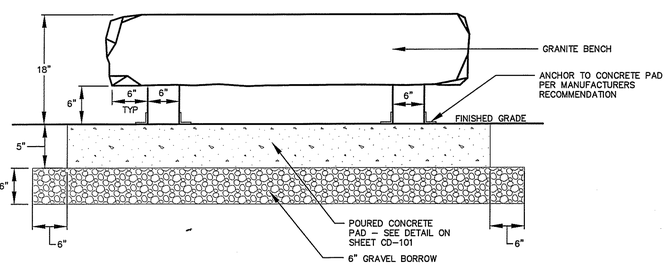


NOTES:

1. PIN CONCRETE WHERE TWO INTEGRALLY COLORED SECTIONS ABUT AND WHERE INTEGRALLY COLORED CONCRETE ABUTS STANDARD CONCRETE. SEE DETAIL THIS SHEET.
2. ALL SCORE JOINTING SHALL BE SAWCUT; NO TROWLED EDGE.
3. CONCRETE SHALL BE BROOM FINISHED OR STAMPED AS SHOWN ON THE PLAZA SCORING LAYOUT PLAN.
4. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.

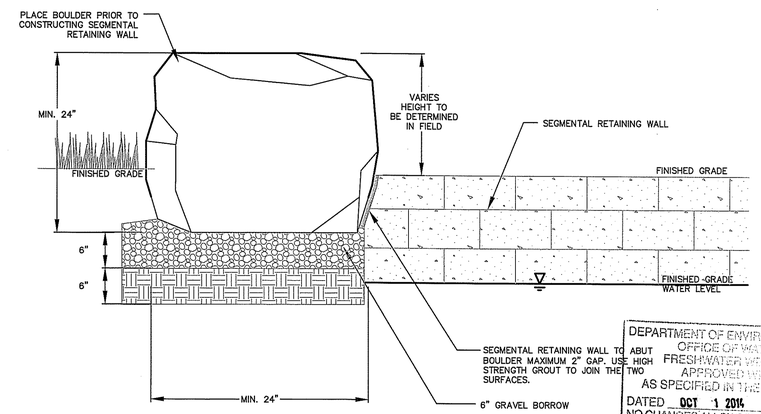
CONCRETE WALK

SCALE: N.T.S.



GRANITE BENCH

SCALE: N.T.S.



NOTES:

1. MINIMUM BOULDER SIZE OF 2 CUBIC YARD.
2. LOCATIONS SHALL BE APPROVED BY ENGINEER / LANDSCAPE ARCHITECT IN THE FIELD.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS
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Charles A. Horbert

SEP 5 2014

LANDSCAPE BOULDER

SCALE: N.T.S.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.				

SEAL

SHAWN M. MARTIN
No. 7487
7/31/14
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

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CASS PARK
DETAILS
CASS POND IMPROVEMENTS
WOONSOCKET RHODE ISLAND

PROJ. No.: 20130545.A20
DATE: SEPTEMBER 5, 2014

CD-502

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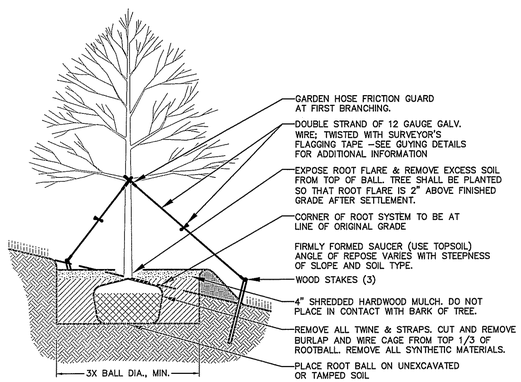
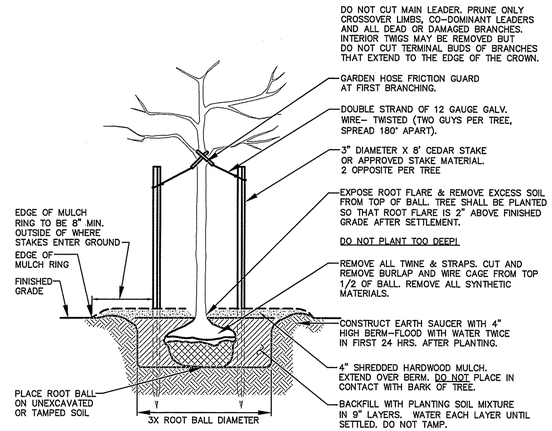


DECIDUOUS TREE PLANTING ON SLOPE (HEAVY DUTY)

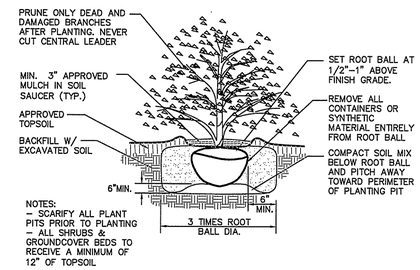
SCALE: N.T.S.



NOTES:
1. STAKES & GUYS SHALL BE REMOVED AT THE END OF THE FIRST GROWING SEASON AFTER PLANTING.
2. TIGHTEN WIRE OR CABLE ONLY ENOUGH TO KEEP FROM SLIPPING. ALLOW FOR SOME TRUNK MOVEMENT. PLASTIC HOSE SHALL BE LONG ENOUGH TO ACCOMMODATE 1–1/2" OF GROWTH AND BUFFER ALL BRANCHES FROM THE WIRE.
3. TUCK ANY LOOSE ENDS OF THE WIRE OR CABLE INTO THE WIRE WRAP SO THAT NO SHARP WIRE ENDS ARE EXPOSED.
4. SPRAY WITH ANTIDESICCANT IN ACCORDANCE WITH MFG'S INSTRUCTIONS IF FOLIAGE IS PRESENT.
5. ALL TREES PLANTED WITHIN PARKING LOT ISLANDS SHALL BE INSTALLED WITH "ROOT BARRIER" EQUAL TO UNIVERSAL BARRIER MODEL UB–24–2 AS MAN BY DEEP ROOT. PLACE BARRIER AT PERIMETER OF ISLAND, BEHIND CURB.

PLANTING AND GUYING FOR TREES LESS THAN 3" CALIPER, BALLED & BURLAPED

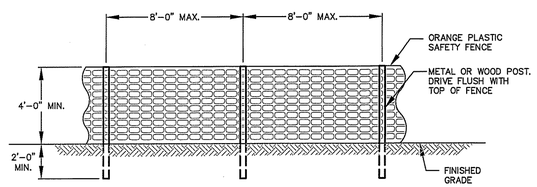
SCALE: N.T.S.



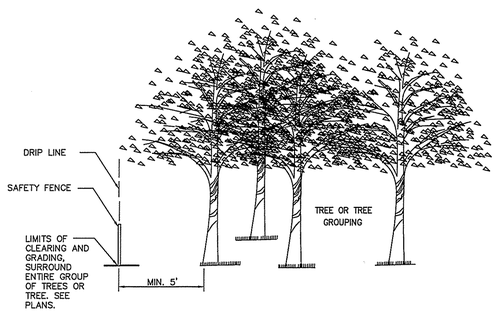
NOTES:
– SCARIFY ALL PLANT PITS PRIOR TO PLANTING
– ALL SHRUBS & GROUNDCOVER BEDS TO RECEIVE A MINIMUM OF 12" OF TOPSOIL

SHRUB PLANTING

SCALE: N.T.S.

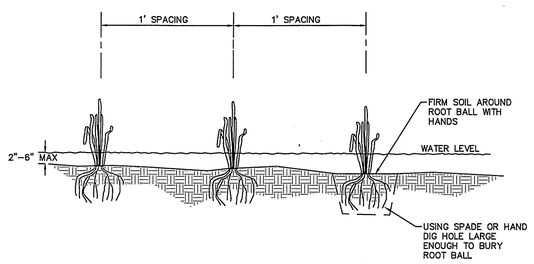


SAFETY FENCE



TREE PROTECTION

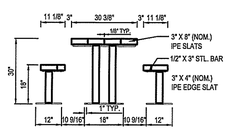
SCALE: N.T.S.

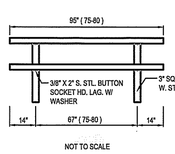


NOTES:
FOR CONTAINER GROWN PLANTS, USE FINGERS OR SMALL HAND TOOLS TO PULL THE ROOTS OUT OF THE OUTER LAYER OF POTTING SOIL; THEN CUT OR PULL APART ANY ROOTS CIRCLING THE PERIMETER OF THE CONTAINER.

PLANTING IN WATER

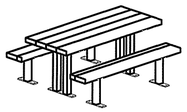
SCALE: N.T.S.





NOT TO SCALE

NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. ANCHOR TO SOIL CEMENT PAD - SEE DETAIL ON SHEET CD-501



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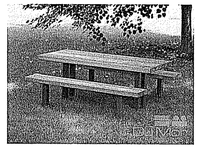

TABLE 75- SURFACE MOUNT
IPE WOOD BOARDS
COLOR: BLACK POWDERCOATED STEEL
DUMOR SITE FURNISHINGS
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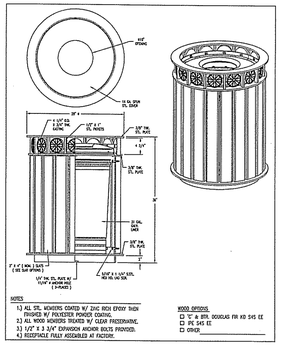
PICNIC TABLE

SCALE: N.T.S.



NOTES
1) ALL STL. MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POWDER COATING.
2) ALL WOOD MEMBERS TREATED W/ CLEAR PRESERVATIVE.
3) 1/2" X 3 3/4" EXPANSION ANCHOR BOLTS PROVIDED.
4) RECEPTACLE FULLY ASSEMBLED AT FACTORY.

WOOD OPTIONS.
☐ "C" & BTR. DOUGLAS FIR KD S4S EE
☐ PE S4S EE
☐ OAK.

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RECYCLE LID

TRASH
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TRASH RECEPTACLE

SCALE: N.T.S.

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CASS PARK
DETAILS
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CD-503

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