

WOONASQUATUCKET ADVENTURE PARK

GLENBRIDGE AVENUE & BARBARA STREET
PLAT 113 LOTS 261, 305, 419, 429, 440
PROVIDENCE, RHODE ISLAND

ISSUED FOR PERMITTING

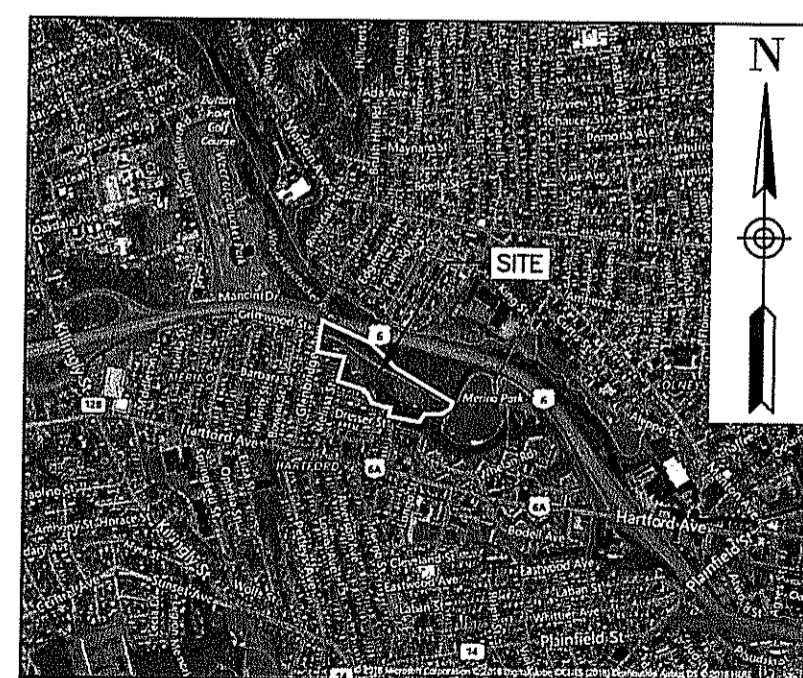
APPLICANT:
CITY OF PROVIDENCE
c/o PROVIDENCE PARKS DEPARTMENT
1000 ELMWOOD AVENUE
PROVIDENCE, RI 02907

LATEST ISSUED: MARCH 28, 2018

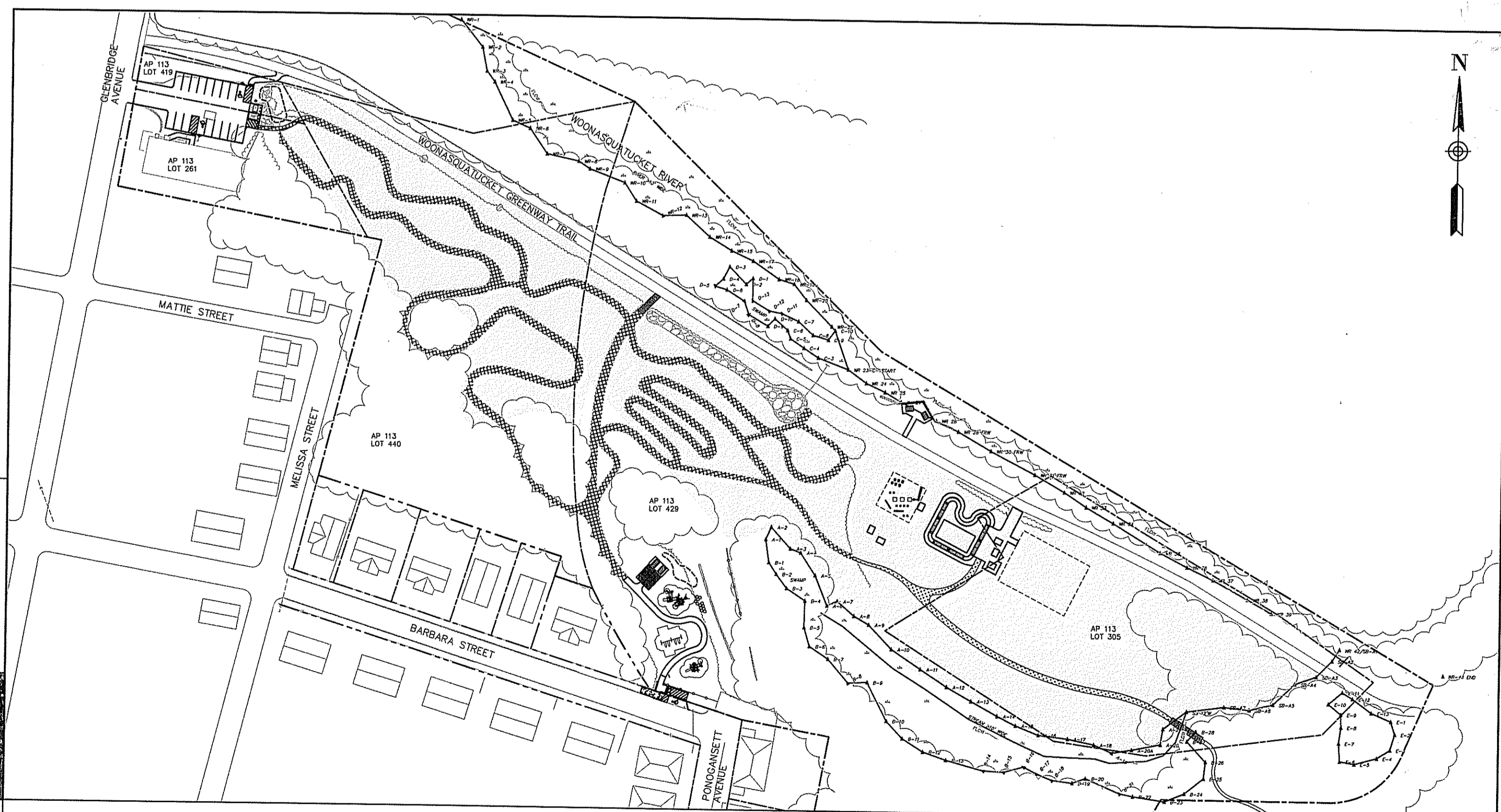
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SOIL CAPPING PLANS (WORK ALREADY COMPLETED, PROVIDED FOR REFERENCE ONLY)			
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C-6 PLANTING PLAN (BY EA)			8/25/10



LOCATION MAP
SCALE: 1"=2,000'



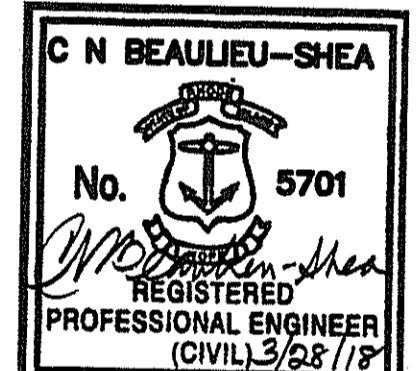
OVERALL SITE PLAN AND LOCATION MAP
SCALE: 1"=100'

PLAT - LOT	PROPERTY ADDRESS	PROPERTY OWNER NAME	MAILING ADDRESS
113 - 305	59 PONAGANSETT AVENUE	CITY OF PROVIDENCE	25 DORRANCE STREET, PROVIDENCE, RI 02903
113 - 429	55 PONAGANSETT AVENUE	CITY OF PROVIDENCE	25 DORRANCE STREET, PROVIDENCE, RI 02903
113 - 440	67 MELISSA STREET	CITY OF PROVIDENCE	25 DORRANCE STREET, PROVIDENCE, RI 02903
113 - 419	108 GLENBRIDGE AVENUE	PROVIDENCE TURNERS	116 GLENBRIDGE AVENUE, PROVIDENCE, RI 02909
113 - 261	114 GLENBRIDGE AVENUE	PROVIDENCE TURNERS	116 GLENBRIDGE AVENUE, PROVIDENCE, RI 02909

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

NOT FOR CONSTRUCTION

SEAL:



REVISION	DATE	DESCRIPTION
1	03/28/2018	RIDEM COMMENTS

CLIENT:
Providence Parks Department
25 DORRANCE STREET
PROVIDENCE, RI 02903

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 02 2018 FILE # 18-0030
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Justin D. Wenzel

PROJECT:
WOONASQUATUCKET ADVENTURE PARK
GLENBRIDGE AVENUE
PROVIDENCE, RHODE ISLAND

TITLE:
COVER

ISSUED FOR:	PERMITTING
DATE:	FEBRUARY 14, 2018
SCALE:	N/A
DRAWN BY:	MJW
CHECKED BY:	GAA
PROJECT NO:	365317022

LEGEND

	EXIST	PROP		EXIST	PROP
TOP/BOTTOM CURB ELEVATION	27.65 TC 27.15 BC	27.65 TC 27.15 BC	SURVEYED PROPERTY LINE (PL)	----	----
SPOT GRADE w/LEADER	21.25 X	21.25 X	ASSESSOR'S MAP PROP. LINE	----	----
SPOT GRADE	21.25 X	21.25 X	RIGHT-OF-WAY/PL EASEMENT	----	----
BORING LOCATION	⊕B-1	⊕B-1	BUILDING SETBACK	----	----
TEST PIT LOCATION	⊕TP-1	⊕TP-1	50' PERIMETER WETLAND	----	----
MONITORING WELL	⊕MW-1	⊕MW-1	100' RIVERBANK WETLAND	----	----
BENCH MARK	⊗BM	⊗BM	200' RIVERBANK WETLAND	----	----
DRAIN MANHOLE	⊕DMH	⊕DMH	ZONING LINE	10400	10400
CATCH BASIN	⊕CB	⊕CB	TOWN LINE	----	----
DOUBLE CATCH BASIN	⊕DCB	⊕DCB	STATE LINE	----	----
GUTTER INLET	⊕GI	⊕GI	GRAVEL ROAD	----	----
TRENCH DRAIN	⊕TD	⊕TD	EDGE OF PAVEMENT	EP	EP
HEADWALL	⊕HW	⊕HW	BITUMINOUS CURB	BC	BC
FLARED END SECTION	FES	FES	CAPE COD BERM	CCB	CCB
DRAINAGE LINE	D	D	PRECAST CONC. CURB	PCC	PCC
OVERFLOW DRAIN	OD	OD	VERT. GRAN. CURB	VGC	VGC
ROOF DRAIN	RD	RD	SLOPED GRAN. EDGING	SGE	SGE
OVERHEAD WIRE	OW	OW	LIMIT OF CURB TYPE	----	----
WATER LINE	W	W	TREE LINE	----	----
FIRE PROTECTION LINE	FP	FP	MEADOW GRASS LINE	----	----
GAS LINE	G	G	MEADOW SHRUB LINE	----	----
UNDERGROUND ELECTRIC	UE	UE	SOIL CAP LIMITS	----	----
UNDERGROUND TELEPHONE	UT	UT	CRUSHED STONE	CS	CS
FIRE ALARM	FA	FA	EROSION CONTROL FABRIC	ECF	ECF
FIRE & POLICE CABLE	F&P	F&P	SAWCUT	----	----
CABLE TV	CATV	CATV	MATCHLINE	----	----
PLUG/STUB	P	P	SOLID WHITE LINE	SWL	SWL
GREASE TRAP	G	G	SOLID YELLOW LINE	SYL	SYL
CONTROL STRUCTURE	C	C	BROKEN WHITE LINE	BWL	BWL
SEWER MANHOLE	⊕SMH	⊕SMH	BROKEN YELLOW LINE	BYL	BYL
SEWER LINE	S	S	SOLID WHITE CHANNELIZING LINE	SWCL	SWCL
WATER GATE	W	W	SOLID YELLOW CHANNELIZING LINE	SYCL	SYCL
TAPPING SLEEVE, VALVE, & BOX	TSV	TSV	DOUBLE YELLOW LINE	DYL	DYL
RISER	R	R	STOP LINE	SL	SL
PRESSURE REDUCER	PR	PR	STEEL GUARD RAIL	SGR	SGR
SIAMESE CONNECTION	SC	SC	WOOD GUARD RAIL	WGR	WGR
FIRE HYDRANT	FH	FH	TREE LINE	----	----
WATER METER	WM	WM	CHAIN LINK FENCE	CLF	CLF
POST INDICATOR VALVE	PIV	PIV	STONE WALL	STW	STW
WELL	W	W	RETAINING WALL	RTW	RTW
GAS GATE	GG	GG	HAY BALES	HB	HB
GAS METER	GM	GM	SILT FENCE	SF	SF
ELECTRIC MANHOLE	⊕EMH	⊕EMH	STRAW WATTLE	SW	SW
ELECTRIC BOX	EB	EB	LIMIT OF DISTURBANCE	LOD	LOD
ELECTRIC METER	EM	EM	MINOR CONTOUR	2	2
LIGHT POLE	L	L	MAJOR CONTOUR	10	10
FLOOD LIGHT	FL	FL	TOP OF SLOPE	TS	TS
SINGLE LUMINAIRE	SL	SL	TOE OF SLOPE	TS	TS
DOUBLE LUMINAIRE	DL	DL	BUILDING	----	----
TRIPLE LUMINAIRE	TL	TL	BUILDING ENTRANCE	BE	BE
QUAD LUMINAIRE	QL	QL	LOADING DOCK	LD	LD
WALL PACK	WP	WP	BOLLARD	B	B
TELEPHONE MANHOLE	⊕TMH	⊕TMH	DUMPSTER PAD	DP	DP
TRAFFIC SIGNAL	TS	TS	SIGN	S	S
SIGNAL BOX	SB	SB	DOUBLE SIGN	DS	DS
FIRE ALARM CONTROL PANEL	FACP	FACP	PARKING METER	PM	PM
FIRE ALARM BOX	FAB	FAB	PARKING COUNT	PC	PC
TRANSFORMER PAD	TP	TP	COMPACT PARKING STALLS	CP	CP
MANHOLE	M	M	CROSSWALK	CSW	CSW
UTILITY POLE	U	U	CEMENT CONC. PAVEMENT	CCP	CCP
GLY POLE	G	G	RIPRAP STONE	RS	RS
HAND HOLE	H	H	TRAIL REINFORCEMENT	TR	TR
PULL BOX	PB	PB	ADA RAMP	AR	AR
			ADA PARKING	AP	AP
			VAN-ACCESSIBLE ADA PARKING	VAP	VAP

ABBREVIATIONS

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
ABANDON	ABAN	MAXIMUM	MAX
ADJUST	ADJ	MINIMUM	MIN
AMERICAN SOCIETY FOR TESTING & MATERIALS	ASTM	NOT IN CONTRACT	NIC
AMERICANS WITH DISABILITIES ACT	ADA	NOT TO SCALE	NTS
APPROXIMATE	APPROX	ON CENTER	OC
ASPHALT COATED CORRUGATED METAL PIPE	ACMP	ONSITE WASTEWATER TREATMENT SYSTEM	OWTS
BITUMINOUS CURB	BC	PAVED WATER WAY	PWW
BOTTOM OF SLOPE	BOS	POLYVINYLCHLORIDE PIPE	PVC
CAPE COD BERM	CCV	PRECAST CONCRETE CURB	PCC
CAST IRON PIPE	CIP	PROPOSED	PROP
CHANGE IN TYPE	CIT	RADIUS	R
COLUMN	COL	REINFORCED CONCRETE PIPE	RCP
CONDUIT	COND	REMODEL	REMOD
CORRUGATED ALUMINUM PIPE	CAP	REMOVE	REM
CORRUGATED POLYETHYLENE PIPE	CPP	REMOVE AND DISPOSE	R&D
DUCTILE IRON PIPE	DIP	REMOVE AND RESET	R&R
ELEVATION	ELEV	REMOVE AND STORE	R&S
EXISTING	EXIST	RETAIN	RET
FOUNDATION	FDN	SLOPED GRANITE EDGING	SGE
FRAME AND COVER	F&C	TAPPING SLEEVE, VALVE AND BOX	TSV&B
FRAME AND GRATE	F&G	TOP OF SLOPE	TOS
GALVANIZED	GALV	TRANSITION	TRANS
GRANITE CURB	GC	TYPICAL	TYP
HIGH DENSITY POLYETHYLENE	HDPE	UTILITY POLE	UP
HYDRANT	HYD	VERTICAL GRANITE CURB	VGC
INVERT ELEVATION	INV	VITRIFIED CLAY PIPE	VCP
LANDSCAPE AREA	LA	WATER GATE	WG

GENERAL NOTES

- THE PROJECT SITE CONSISTS OF A PREVIOUSLY CAPPED HAZARDOUS WASTE SITE, AS SHOWN ON THE PROJECT DRAWINGS. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS, INCLUDING, BUT NOT LIMITED TO, THE ENVIRONMENTAL LAND USE RESTRICTION FOR THE SITE, AND THE RIDEM OFFICE OF WASTE MANAGEMENT.
- THESE PLANS AND THEIR CORRESPONDING ELECTRONIC DOCUMENTS, INCLUDING CAD FILES FOR THE PROJECT, ARE INSTRUMENTS OF PROFESSIONAL SERVICE AND SHALL NOT BE USED IN WHOLE OR IN PART FOR ANY OTHER PURPOSE THAN THE DEVELOPMENT OF THIS PROJECT WITHOUT THE EXPRESSED, WRITTEN CONSENT OF AMEC FOSTER WHEELER. ANY UNAUTHORIZED USE, RE-USE, ALTERATION, OR MODIFICATION OF THIS DATA SHALL BE AT THE USER'S RISK WITH NO LIABILITY ON THE PART OF AMEC FOSTER WHEELER.
- UPON AWARD OF THE CONTRACT AND PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND BONDS AND PAYING ALL STATE AND LOCAL FEES RELATING TO THE WORK SHOWN ON THESE DRAWINGS, THE CONSTRUCTION SPECIFICATIONS, AND CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL NOTIFY DIG-SAFE AT LEAST 72 BUSINESS HOURS PRIOR TO INITIATING ANY EXCAVATION WORK.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. WHERE SITE SPECIFICATIONS ARE NOT PROVIDED, THE CONTRACTOR SHALL ADHERE TO LOCAL MUNICIPAL STANDARDS OR THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, AS APPLICABLE. WORK WITHIN LOCAL RIGHTS-OF-WAY SHALL ADHERE TO LOCAL MUNICIPAL STANDARDS; WORK WITHIN STATE RIGHTS-OF-WAY SHALL ADHERE TO STATE HIGHWAY STANDARDS. WHERE A DISCREPANCY EXISTS, THE MORE RESTRICTIVE STANDARD SHALL APPLY.
- REFERENCE MADE TO "STATE HIGHWAY STANDARDS," "STATE STANDARD SPECIFICATIONS," "STANDARD SPECIFICATIONS," OR "RIDOT STANDARDS" SHALL MEAN AND BE DEFINED AS THE "RHODE ISLAND DEPARTMENT OF TRANSPORTATION - STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION."
- ANY WORK NOT MEETING THE APPROVED STANDARDS SHALL BE REMOVED IMMEDIATELY AND REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SITE SECURITY AND JOB SAFETY AND SHALL CONFORM TO THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND PROTECTION OF PEDESTRIAN AND VEHICULAR TRAFFIC INCLUDING ANY REQUIRED POLICE PROTECTION. ANY REQUIRED TEMPORARY CONSTRUCTION SIGNS, BARRICADES AND LANE CLOSURES SHALL BE IN CONFORMANCE WITH THE LATEST "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD).
- THE CONTRACTOR SHALL NOT OBSTRUCT PUBLIC ROADWAYS, SIDEWALKS, OR FIRE HYDRANTS WITHOUT FIRST OBTAINING THE NECESSARY PERMITS TO DO SO.
- ACCESSIBLE ROUTES, PARKING SPACES, SIDEWALKS, AND RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FEDERAL "AMERICANS WITH DISABILITIES ACT (ADA)" AND LOCAL AND STATE STANDARDS. WHERE A DISCREPANCY EXISTS, THE MORE RESTRICTIVE STANDARD SHALL APPLY.
- THE LIMITS-OF-WORK (A.K.A. "LIMIT OF DISTURBANCE") SHALL BE AS SHOWN ON THESE PLANS. AREAS DISTURBED BEYOND THESE DEFINED LIMITS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE. LANDSCAPE AREAS SHALL BE RESTORED WITH 6 INCHES OF LOAM AND SEED.
- UNLESS OTHERWISE NOTED ON THE PLANS, ALL UNPAVED/LANDSCAPE AREAS SHALL RECEIVE FOUR (4) INCHES OF LOAM AND SEED WITHIN THE LIMITS OF WORK SHOWN ON THESE PLANS. LOAM SHALL BE EVENLY SPREAD, SMOOTHED, AND COMPACTED PRIOR TO SEEDING.
- PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY EXISTING PAVEMENT ELEVATIONS AT THEIR PROPOSED INTERFACE WITH PROPOSED PAVEMENTS TO ENSURE PROPER TRANSITIONS BETWEEN EXISTING AND PROPOSED FACILITIES.
- HORIZONTAL AND VERTICAL DATUMS ARE PROVIDED ON THE EXISTING CONDITIONS PLANS.
- THE SITE OF THE PROPOSED WOONASQUATUCKET ADVENTURE PARK HAS BEEN FULLY REMEDIATED AS A BROWNFIELD SITE IN 2010. THE SITE WAS CAPPED IN 2006 AND 2010. THIS CAP INCLUDED 4" OF TOPSOIL, 8" MINIMUM OF CLEAN FILL, AND NON-WOVEN GEOTEXTILE ALL OVER EXISTING GRADE, AS NOTED ON THE APPENDED EA PLANS. ALL SOIL DISTURBANCES WITHIN THE IDENTIFIED CAP AREA SHALL BE RE-CAPPED IN ACCORDANCE WITH DETAILS NOTED IN THIS PLANSET AND/OR REQUIREMENTS SPECIFIED IN EA'S PLANS AS NOTED.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LOCAL AND STATE APPROVALS REQUIRED FOR THE PROJECT. REQUIRED PERMITS/APPROVALS FOR THE CONSTRUCTION INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:
 - CITY OF PROVIDENCE DPW APPROVAL
 - RHODE ISLAND DEPARTMENT OF TRANSPORTATION PHYSICAL ALTERATION PERMIT
 - RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 - FRESHWATER WETLANDS INSIGNIFICANT ALTERATION PERMIT
 - RHODE ISLAND POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT
 - OFFICE OF WASTE MANAGEMENT PERMITTING

GENERAL UTILITY NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL UTILITY COMPANIES AND WORK TRADES ASSOCIATED WITH THE WORK SHOWN ON THESE PLANS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR A STREET OPENING PERMIT FROM THE CITY OF PROVIDENCE.
- THE CONTRACTOR IS RESPONSIBLE FOR MEETING THE REQUIREMENTS OF THE STREET OPENING PERMIT AND ALL CITY ORDINANCES.
- THE CONTRACTOR SHALL KEEP ALL LOCAL AGENCIES INFORMED OF SCHEDULE AS NECESSARY.
- PRIVATE UTILITIES
 - SERVICES SHALL BE APPROVED BY AND CONSTRUCTED IN ACCORDANCE WITH THE SPECIFICATIONS AND REQUIREMENTS OF PRIVATE UTILITY SERVICE PROVIDERS (GAS, TELEPHONE, ELECTRIC, FIRE ALARM, CABLE, FIOS, ETC.)
 - CONTRACTOR SHALL FURNISH EXCAVATION, INSTALLATION, AND BACKFILL OF ALL ELECTRIC WORK. THE CONTRACTOR SHALL ALSO FURNISH AND INSTALL CONCRETE ENCASEMENT FOR DUCT BANKS, IF REQUIRED BY THE ELECTRIC COMPANY. PULLING OF ELECTRICAL CONDUIT SHALL BE BY THE ELECTRIC COMPANY.
 - EXISTING UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATION BASED ON BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE LOCATION, SIZE, MATERIAL(S), AND ELEVATION OF ALL EXISTING UTILITIES WITHIN THE LIMIT OF WORK PRIOR TO ORDERING OR INSTALLING THESE MATERIALS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES OR UTILITY CONFLICTS PRIOR TO CONSTRUCTION.
 - WHERE AN EXISTING UTILITY IS FOUND TO BE IN CONFLICT WITH THE PROPOSED WORK, OR WHERE EXISTING CONDITIONS DIFFER FROM THE INFORMATION SHOWN ON THESE PLANS, SUCH THAT THE WORK CAN NOT BE COMPLETED AS INTENDED, THE CONTRACTOR SHALL IMMEDIATELY IDENTIFY AND PROVIDE THE ENGINEER WITH THE LOCATION, ELEVATION, AND SIZE OF THE UTILITY IN CONFLICT. THE CONTRACTOR SHALL NOT CONTINUE WORK IN THIS AREA UNTIL THE APPROPRIATE REMEDIAL ACTION IS AGREED UPON BY THE OWNER AND ENGINEER.
 - THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO OVERHEAD AND/OR UNDERGROUND UTILITIES, WHETHER OR NOT SHOWN ON THESE PLANS THROUGHOUT WORK ON THIS PROJECT.
 - STORM DRAIN PIPING SHALL BE CONSTRUCTED OF HIGH-DENSITY POLYETHYLENE (HDPE) UNLESS OTHERWISE NOTED ON THE PLANS.
 - ALL DRAINAGE MANHOLE DIAMETERS SHALL BE A MINIMUM OF FOUR (4) FEET AND AS DETERMINED BY THE MANHOLE MANUFACTURER(S), BASED ON THE PIPE CONFIGURATIONS SHOWN ON THESE PLANS AND LOCAL MUNICIPAL STANDARDS.
 - ALL STRUCTURES UNDER PAVED AREAS SHALL BE DESIGNED TO MEET HS-20 TRUCK LOAD.

LAYOUT AND MATERIALS NOTES

- THE CONTRACTOR SHALL NOT RELY SOLELY ON ELECTRONIC VERSIONS OF PLANS, SPECIFICATIONS, AND DATA FILES THAT ARE OBTAINED FROM THE DESIGNERS, BUT SHALL VERIFY LOCATION OF PROJECT FEATURES IN ACCORDANCE WITH PAPER COPIES OF THE PLANS AND SPECIFICATIONS THAT ARE SUPPLIED AS PART OF THE CONTRACT DOCUMENTS.
- SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SCALED TO THE ACTUAL DIMENSIONS OR LOCATIONS ON THE DRAWINGS. THE CONTRACTOR SHALL REFER TO THE DETAIL SHEET DIMENSIONS, MANUFACTURERS' LITERATURE, SHOP DRAWINGS AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.
- DIMENSIONS ARE TO/FROM FACE OF CURB, FACE OF BUILDING, FACE OF WALL, AND CENTER LINE OF PAVEMENT MARKINGS, UNLESS OTHERWISE NOTED ON THESE PLANS.
- PROPOSED BOUNDS AND ANY OTHER EXISTING PROPERTY LINE MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE SET OR RESET BY A PROFESSIONAL LICENSED SURVEYOR.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY BITUMINOUS PATCH FOR ANY TRENCH WORK WITHIN PAVEMENT OR SIDEWALK AREAS IN PUBLIC RIGHTS-OF-WAY UNTIL PERMANENT PATCHING IS INSTALLED.

DEMOLITION

- WITHIN THE LIMIT OF WORK/DISTURBANCE, THE CONTRACTOR SHALL CLEAR AND GRUB ALL EXISTING VEGETATION AND STOCKPILE AND SCREEN TOPSOIL FOR RE-USE IN LANDSCAPE AREAS. THE CONTRACTOR SHALL ALSO REMOVE AND DISPOSE OF ALL EXISTING MANMADE FEATURES, INCLUDING BUT NOT LIMITED TO BUILDINGS, STRUCTURES, PAVEMENTS, SLABS, CURBING, WALLS, FENCES, UTILITIES (BOTH OVERHEAD AND UNDERGROUND), SIGNS, ETC., EXCEPT AS OTHERWISE NOTED ON THESE PLANS. THE EXISTING SOIL CAP SHALL NOT BE DISTURBED UNLESS OTHERWISE INDICATED ON THESE PLANS.
- ALL WETLAND DISTURBANCES ASSOCIATED WITH CONSTRUCTION ACTIVITIES SHALL BE RESTORED.
- THE CONTRACTOR SHALL DISPOSE OF ALL MATERIALS OFF-SITE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.
- THE EXTENT OF DEMOLITION DEPICTED ON THESE PLANS IS INTENDED TO AID THE CONTRACTOR IN BIDDING THE PROJECT AND IS NOT NECESSARILY INTENDED TO DEPICT EACH AND EVERY ELEMENT OF DEMOLITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE FULL EXTENTS OF THE DEMOLITION WORK PRIOR TO CONTRACT AWARD AND SHALL NOT BE COMPENSATED FOR UNFORESEEN CONDITIONS ONCE THE WORK HAS COMMENCED.
- UNLESS OTHERWISE SPECIFICALLY PROVIDED ON THESE PLANS, THE ENGINEER HAS NOT PREPARED PLANS FOR THE DISCOVERY, REMOVAL, ABATEMENT, OR DISPOSAL OF ANY HAZARDOUS OR TOXIC MATERIALS FOUND DURING CONSTRUCTION.

100-YEAR FLOOD PLAIN IMPACT AVOIDANCE

- THERE IS NO ANTICIPATED INCREASE IN THE 100-YEAR FLOOD ELEVATIONS RESULTANT FROM THE PROPOSED PROJECT, AS DESIGNED.

EXISTING CONDITIONS

- EXISTING CONDITIONS ARE COMPILED FROM THE FOLLOWING SOURCES:
- FIELD SURVEY AND WETLANDS FLAGGING BY DIPE ENGINEERING, SUPPLEMENTED BY RIGIS LIDAR ELEVATION DATA.
 - FEMA FLOOD MAP 44007C0304J, EFFECTIVE 10/02/2015.
 - CITY OF PROVIDENCE ASSESSORS MAP 113.
 - HANDHELD GPS MAPPING OF EXISTING TRAILS COMPLETED BY CITY OF PROVIDENCE PARKS DEPARTMENT.
 - SITE CAP LIMITS TAKEN FROM RECORD PLANS BY EA, INC.
 - SUPPLEMENTAL INFORMATION PROVIDED THROUGH FIELD VISITS BY AMEC FOSTER WHEELER.

SITE SPECIFIC DATA

- TOTAL SITE AREA = 11.74± ACRES
- TOTAL AREA OF DISTURBANCE = 2.46± ACRES
- NATURAL HERITAGE AREA (NHA) IMPACT - N/A
- THREATENED SPECIES OR HABITAT IMPACT - N/A
- WATERSHED = TRIBUTARY TO WOONASQUATUCKET RIVER: I.D. RI0002007R-10D

EROSION CONTROLS/CONSTRUCTION SEQUENCING

- PRIOR TO THE START OF CONSTRUCTION OF ANY EARTHWORK ACTIVITIES, THE CONTRACTOR SHALL NOTIFY ALL APPLICABLE AGENCIES AND INSTALL THE EROSION CONTROL MEASURES SHOWN ON THESE PLANS IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL PERMITS PERTAINING TO THIS PROJECT.
- THE CONTRACTOR SHALL KEEP A COPY OF THE "SOIL EROSION AND SEDIMENTATION CONTROL PLAN" (SESC) AND THE APPROVED PLAN SET AT THE CONSTRUCTION SITE AT ALL TIMES.
- THE CONTRACTOR SHALL INSTALL ALL EROSION AND SEDIMENTATION (E&S) CONTROL MEASURES SHOWN ON THE PLAN SET IN ACCORDANCE WITH THE SESC AND THE MOST RECENT EDITION OF THE "RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK."
- THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN AND/OR UPGRADE THESE MEASURES, AS NECESSARY, THROUGHOUT CONSTRUCTION, TO MEET THE REQUIREMENTS OF ALL RELATED PERMITS FOR THE PROJECT.
- THE CONTRACTOR SHALL PREPARE AND MAINTAIN A RED-LINED COPY OF THE SESC PLAN SHOWING INTENDED AREAS FOR STAGING, STOCKPILING, WASHOUT, SOLID WASTE CONTAINMENT, AND TEMPORARY SEDIMENTATION CONTROL AREAS. ALL SUCH AREAS SHALL BE LOCATED OUTSIDE OF REGULATED WETLAND AREAS OR AREAS INTENDED FOR INFILTRATION PRACTICES.
- EROSION CONTROL DEVICES
 - AT LEAST ONE STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED FOR ACCESS TO THE PROJECT BY CONSTRUCTION VEHICLES. THE CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED BEFORE CONSTRUCTION VEHICLES ARE ALLOWED TO ENTER THE CONSTRUCTION SITE. ADDITIONAL ENTRANCES/EXITS SHALL BE INSTALLED IF MORE THAN ONE ACCESS POINT IS ANTICIPATED BY THE CONTRACTOR. A WASH OUT PAD MAY ALSO BE INSTALLED TO WASH CONSTRUCTION VEHICLES EXITING THE SITE.
 - ROADS ADJACENT TO THE CONSTRUCTION SITE SHALL BE CLEAN AT THE END OF EACH WORK DAY.
 - TEMPORARY SEDIMENT BASINS MAY BE EXCAVATED OR BERMED/HAYBALED AND SHALL BE SIZED IN ACCORDANCE WITH THE "RHODE ISLAND STORMWATER DESIGN AND INSTALLATION STANDARDS MANUAL" AND THE "RHODE ISLAND SOIL EROSION AND SEDIMENTATION CONTROL HANDBOOK." THE DISCHARGE LOCATION FROM THESE BASINS SHALL BE STABILIZED TO PREVENT EROSION.
 - STRAW WATTLE AND SILT SACKS SHALL BE INSTALLED AT ALL DOWN-GRADIENT CATCH BASINS WITHIN THE LIMIT OF WORK TO CONTROL EROSION AND SEDIMENTATION AND TO PROTECT OFF-SITE AREAS. THESE DEVICES SHALL BE INSTALLED AS SHOWN ON THE E&S CONTROL PLAN PRIOR TO INITIATION OF MAJOR SITE WORK ACTIVITIES AND SHALL BE MAINTAINED/REPAIRED UNTIL FINAL STABILIZATION OF ALL DISTURBED AREAS.
 - SILT FENCE SHALL BE INSTALLED AROUND ALL EARTH STOCKPILES. STOCKPILES SHALL BE STABILIZED WITH TEMPORARY SEED ACCORDING TO NOTE 11 BELOW. IF TEMPORARY SEED IS NOT FEASIBLE OR NOT PRACTICAL, STOCKPILES SHALL BE COVERED WITH POLYETHYLENE SHEETING OR SIMILAR PRODUCT AT THE END OF EACH DAY TO MINIMIZE DUST.
 - ALL OTHER EROSION CONTROL DEVICES SHOWN ON THESE PLANS SHALL BE IN ACCORDANCE WITH "RHODE ISLAND STORMWATER DESIGN AND INSTALLATION STANDARDS MANUAL" AND THE "RHODE ISLAND SOIL EROSION AND SEDIMENTATION CONTROL HANDBOOK."
 - THE EROSION CONTROL MEASURES SHOWN ON THESE PLANS ARE INTENDED TO BE THE MINIMUM NECESSARY AT THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN AND SUPPLEMENT THESE EROSION CONTROLS, AS NECESSARY THROUGHOUT CONSTRUCTION, TO PREVENT DAMAGE TO WETLANDS AND/OR SURROUNDING PROPERTIES.
 - THE CONTRACTOR SHALL PREVENT DUST, DEBRIS, AND SEDIMENTS FROM LEAVING THE SITE DURING CONSTRUCTION AND SHALL BE RESPONSIBLE TO REPAIR, CLEAN UP, AND TAKE OTHER CORRECTIVE ACTION IMMEDIATELY OR NO LATER THAN 24 HOURS AFTER ANY ISSUE ARISES.
 - THE CONTRACTOR SHALL CONTROL CONSTRUCTION STORMWATER RUNOFF IN SUCH A MANNER AS TO PREVENT DAMAGE TO DOWN-GRADIENT PROPERTIES; ANY PROPERTIES SO DAMAGED SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
 - THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL DEVICES ON A WEEKLY BASIS AND WITHIN 12 HOURS AFTER A RAINFALL EVENT. THE CONTRACTOR SHALL IMMEDIATELY REPAIR DAMAGED DEVICES AND SHALL REMOVE ACCUMULATED SEDIMENTS IN ACCORDANCE WITH LOCAL REQUIREMENTS AND THE RIDES PERMIT, WHEN APPLICABLE. ACCUMULATED SEDIMENTS SHALL BE REMOVED FROM THE SITE OR PLACED AWAY FROM WETLANDS AND CLOSED DRAINAGE SYSTEMS.
 - THE CONTRACTOR SHALL MAKE EVERY EFFORT TO PERFORM EARTHWORK IN PHASES THAT ALLOW FOR STABILIZATION OF THESE AREAS IN A RELATIVELY SHORT TIME PERIOD AND TO DISCOURAGE EROSION AND SEDIMENTATION. ANY EXPOSED SOILS INTENDED TO REMAIN FOR MORE THAN 14 DAYS SHALL BE STABILIZED WITH MULCH, OR TEMPORARY SEED AND WATERED TO ENCOURAGE VEGETATION.
 - THE CONTRACTOR SHALL INSTALL PERMANENT SEEDING BETWEEN APRIL 15TH AND JUNE 15TH AND/OR AUGUST 15TH TO OCTOBER 15TH.
 - THE CONTRACTOR SHALL APPLY PERMANENT SOIL STABILIZATION MEASURES TO ALL GRADED AREAS WITHIN SEVEN (7) DAYS OF ESTABLISHING FINAL GRADE.
 - THE CONTRACTOR SHALL PERFORM A FINAL INSPECTION OF ALL EXISTING CATCH BASINS, DRAINAGE PIPING, AND ASSOCIATED DRAINAGE STRUCTURES WITHIN THE PROJECT LIMITS TO ENSURE THAT ALL SEDIMENTS HAVE BEEN REMOVED BEFORE WORK IS DEEMED COMPLETE.
 - THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL E&S MEASURES ONLY AFTER FINAL PAVEMENT IS PLACED AND VEGETATION IN LANDSCAPE AREAS IS WELL ESTABLISHED.
 - NO SNOW SHALL BE PLOWED INTO WETLAND FEATURES OR STORMWATER MANAGEMENT AREAS. ALL EXCESS SNOW MUST BE STOCKPILED IN THE EMPLOYEE PARKING LOT OR REMOVED FROM THE SITE AS NECESSARY.

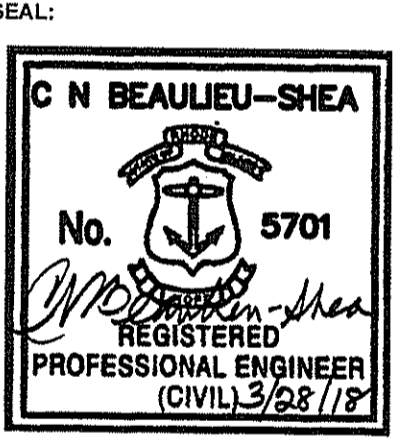
QUALIFIED PERVIOUS AREAS

- TO ENSURE THE LONG-TERM FUNCTION AND VALUE OF ANY AREA PROPOSED FOR QUALIFIED PERVIOUS AREAS, THE CONTRACTOR SHALL EXERCISE THE FOLLOWING BEST MANAGEMENT PRACTICES THROUGHOUT CONSTRUCTION:
- THESE AREAS SHALL NOT BE USED FOR TEMPORARY CONSTRUCTION SEDIMENTATION CONTROL, SEDIMENTATION BASINS, OR DEWATERING AREAS.
 - THESE AREAS SHALL REMAIN OFF-LINE UNTIL THE ENTIRE CONSTRUCTION AREA CONTRIBUTING TO THESE AREAS HAS BEEN STABILIZED WITH BUILDINGS, BUILDING FOUNDATIONS, PAVEMENT, OR VEGETATION, AS APPLICABLE.
 - STORMWATER RUNOFF DURING CONSTRUCTION SHALL BE DIRECTED AWAY FROM THESE AREAS TO THE GREATEST EXTENT PRACTICABLE. WHERE NOT FEASIBLE, THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROLS UP-GRADE OF THESE AREAS TO PREVENT SEDIMENTATION OF THESE AREAS DURING CONSTRUCTION.
 - THE SUBGRADE BELOW THESE AREAS SHALL NOT BE COMPACTED; THEREFORE, THE CONTRACTOR SHALL RESTRICT ACCESS TO THESE AREAS BY HEAVY EQUIPMENT AND SHALL NOT USE THESE AREAS FOR MATERIALS STOCKPILES.
 - EXCAVATION AND CONSTRUCTION OF THESE AREAS SHALL BE PERFORMED USING HAND OR HYDRAULIC EQUIPMENT TO ENSURE THAT THE NATURAL FILTRATION EARTH MATERIAL IS NOT DISTURBED OR OTHERWISE COMPACTED.
 - UPON COMPLETION OF CONSTRUCTION OF ANY OF THESE AREAS, THE CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES TO PREVENT SILTATION OF THE FILTER MATERIALS.
 - DETERMINATION OF COMPACTED SOILS WITHIN QUALIFIED PERVIOUS AREAS SHALL BE AT THE DISCRETION OF THE ENGINEER AND REMEDIED BY THE CONTRACTOR PRIOR TO COMPLETION OF CONSTRUCTION. REMEDIAL ACTION TO REPAIR COMPACTED SOILS SHALL INCLUDE, BUT ARE NOT LIMITED TO, TILLING, SCARIFYING, AND/OR REPLACEMENT OF COMPACTED SOILS.



AMEC FOSTER WHEELER
ENVIRONMENT & INFRASTRUCTURE, INC.
275 PROMENADE STREET, SUITE 100
PROVIDENCE, RHODE ISLAND, 02908
WEB: WWW.AMECFW.COM
401-648-9240

NOT FOR CONSTRUCTION



REVISION	DATE	DESCRIPTION
1	03/28/2018	RIDEM COMMENTS

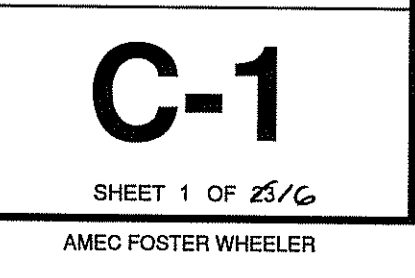
CLIENT:
Providence Parks Department
25 DORRANCE STREET
PROVIDENCE, RI 02903

PROJECT:
WOONASQUATUCKET ADVENTURE PARK
GLENBRIDGE AVENUE
PROVIDENCE, RHODE ISLAND

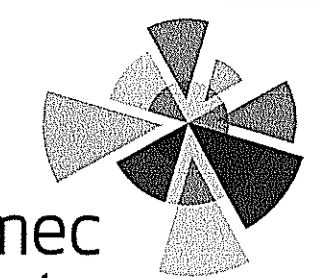
TITLE:

LEGEND & NOTES

ISSUED FOR:	PERMITTING
DATE:	FEBRUARY 14, 2018
SCALE:	N/A
DRAWN BY:	MJW
CHECKED BY:	GAA
PROJECT NO:	3653170022

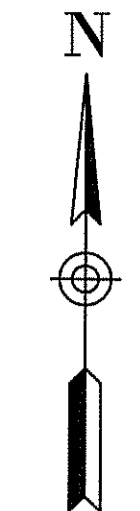


DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 02, 2018 FILE # 18-0030
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Jonathan D. Wenzel



amec
foster
wheeler

AMEC FOSTER WHEELER
ENVIRONMENT & INFRASTRUCTURE, INC.
275 PROMENADE STREET, SUITE 100
PROVIDENCE RHODE ISLAND, 02908
WEB: WWW.AMECFW.COM
401-648-9240



- NOTES:
- EXISTING CONDITIONS COMPILED FROM THE FOLLOWING SOURCES:
 - FIELD SURVEY AND WETLANDS FLAGGING BY DIPRETE ENGINEERING FIELD SURVEY ON OCTOBER 16-18, 2017. THIS PLAN REFLECTS THE GROUND CONDITIONS OF THAT DATE.
 - FEMA FLOOD MAP 440070304L, EFFECTIVE 10/02/2015.
 - CITY OF PROVIDENCE ASSESSOR'S MAP 113.
 - HANDHELD GPS MAPPING OF EXISTING TRAILS COMPLETED BY CITY OF PROVIDENCE PARKS DEPARTMENT.
 - SITE CAP LIMITS TAKEN FROM RECORD PLANS BY EA, INC.
 - SUPPLEMENTAL INFORMATION PROVIDED THROUGH FIELD VISITS BY AMEC FOSTER WHEELER.
 - ELEVATIONS SHOWN HEREON, IN U.S. SURVEY FEET, ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), AS DETERMINED BY DIPRETE ENGINEERING USING REAL TIME KINEMATIC G.P.S. OBSERVATIONS.
 - THE SITE IS FOUND IN THE CITY OF PROVIDENCE, PROVIDENCE COUNTY, RHODE ISLAND.
 - THERE WERE NO CEMETERIES, GRAVE SITES AND OR BURIAL GROUNDS OBSERVED WITHIN THE LIMITS OF THE SURVEY.
 - THE SURFACE DEPICTED IS CREATED FROM LIDAR AND OUTSIDE SOURCES.
 - CONTOUR DATA SHOWN ON THIS PLAN CONFORMS TO A T-4 TOPOGRAPHICAL SURVEY STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS. SAID DATA IS BASED ON ELEVATION INFORMATION THAT WAS COLLECTED WITH AIRBORNE LIDAR TECHNOLOGY FOR THE ENTIRE AREA OF RHODE ISLAND BETWEEN APRIL 22 AND MAY 6, 2011 AS PART OF THE NORTHEAST LIDAR PROJECT. THIS DATA'S POSITIONAL ACCURACY AND RELIABILITY HAS NOT BEEN VERIFIED BY DIPRETE ENGINEERING AND IS SUBJECT TO CHANGES AS AN AUTHORITY FIELD SURVEY MAY DISCLOSE.

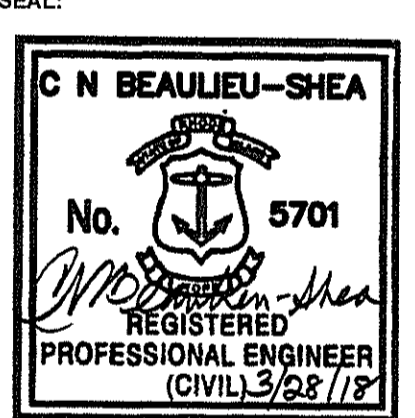
NOTE:
REFER TO PLANS BY IRONWOOD DESIGN GROUP FOR ALL LANDSCAPE ELEMENTS, INCLUDING BIKE TRACKS, PATHS, PLAYGROUNDS, PARKOUR ELEMENTS, AND RECREATION DESIGN.

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 02 2018 FILE # 18-0030
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Matthew D. Wenczek

NOT FOR CONSTRUCTION



REVISION	DATE	DESCRIPTION
1	03/28/2018	RIDEM COMMENTS

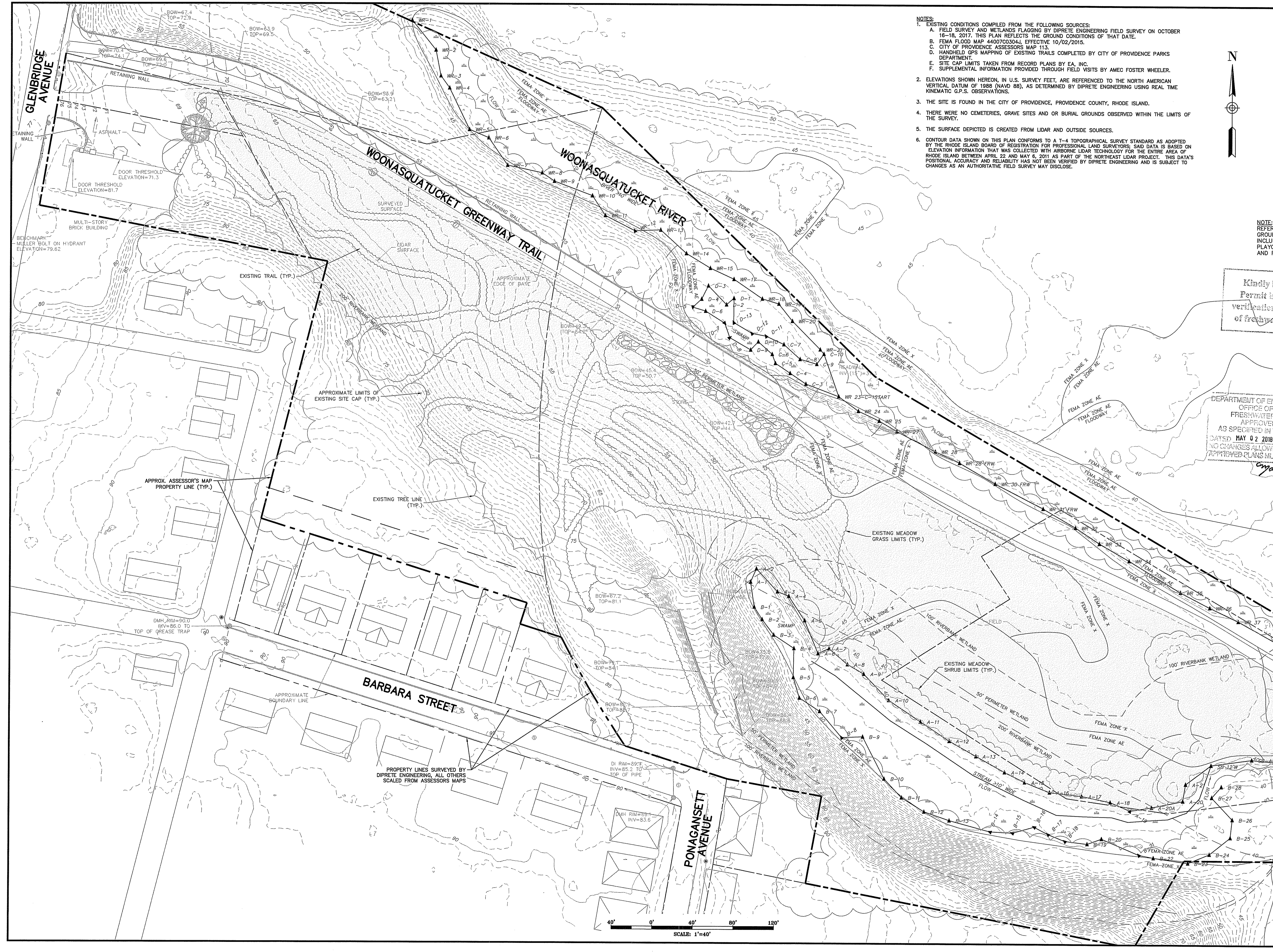
CLIENT:
Providence Parks Department
25 DORRANCE STREET
PROVIDENCE, RI 02903

PROJECT:
WOONASQUATUCKET ADVENTURE PARK
GLENBRIDGE AVENUE
PROVIDENCE, RHODE ISLAND

TITLE:
COMPILED EXISTING BASE PLAN

ISSUED FOR: PERMITTING
DATE: FEBRUARY 14, 2018
SCALE: 1" = 40'
DRAWN BY: MJW
CHECKED BY: GAA
PROJECT NO: 385170022

C-2
SHEET 2 OF 2/6
AMEC FOSTER WHEELER



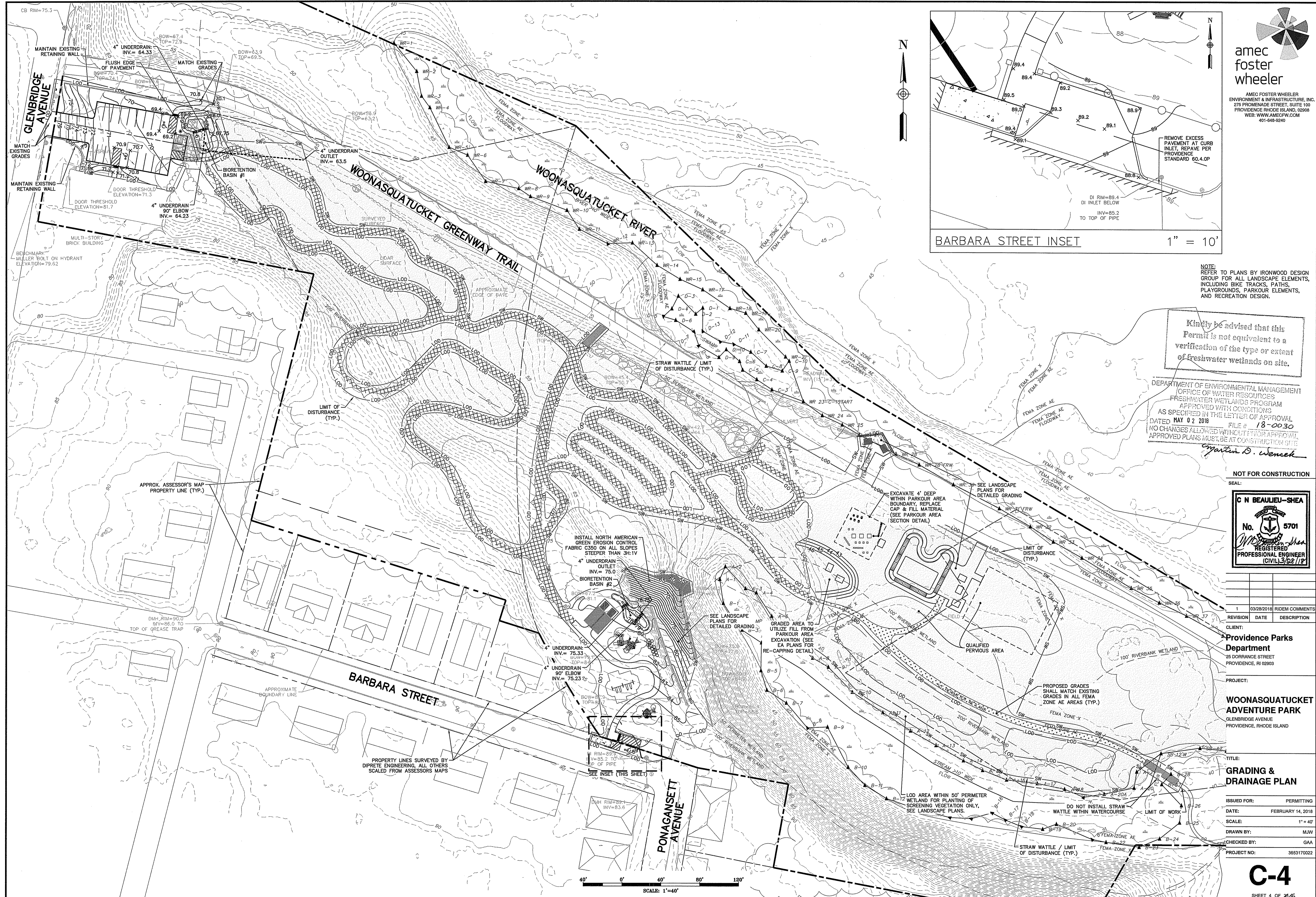
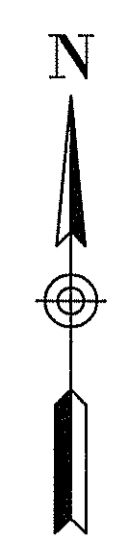
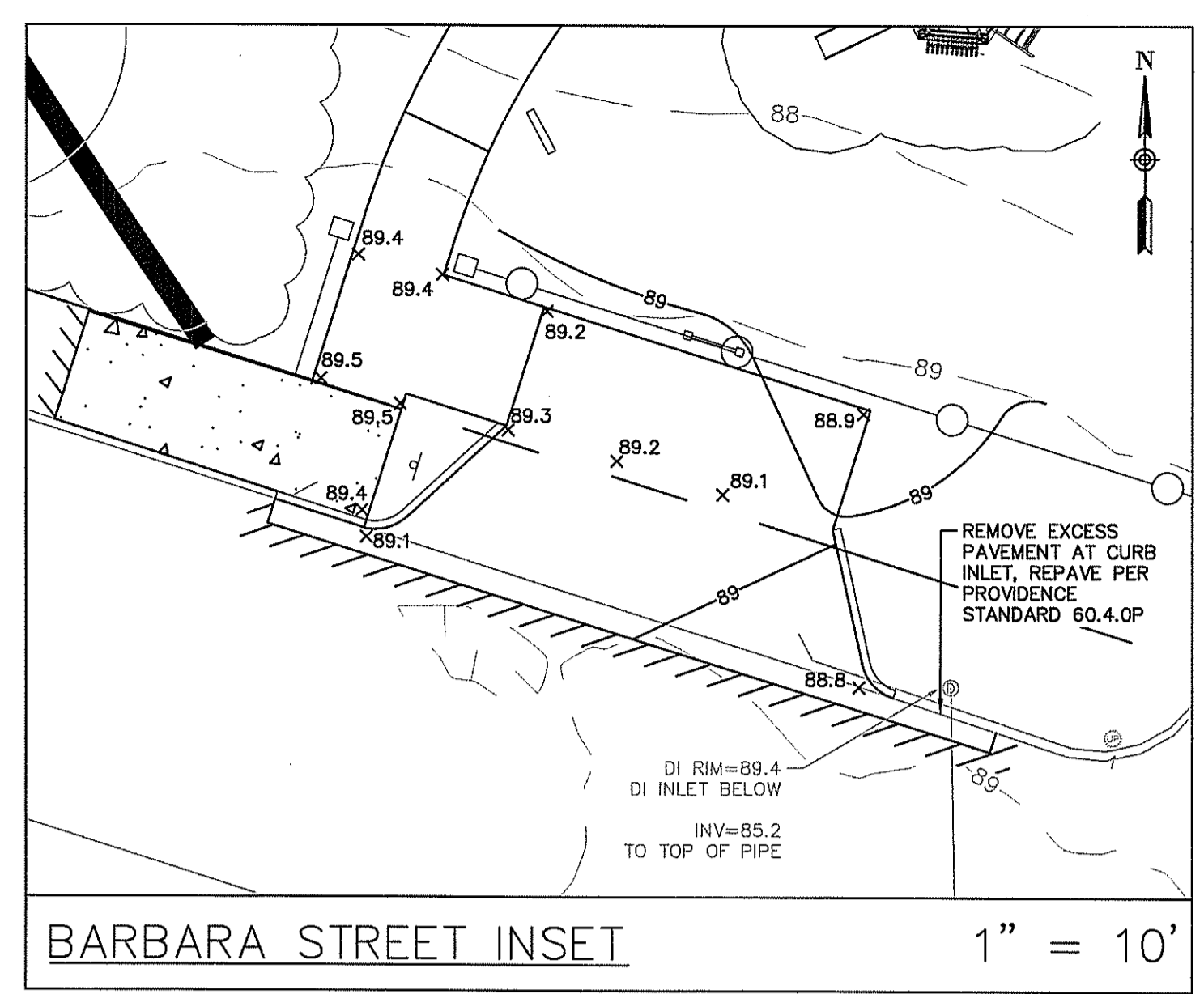
DMH RIM=90.0
INV=86.0 TO
TOP OF GREASE TRAP

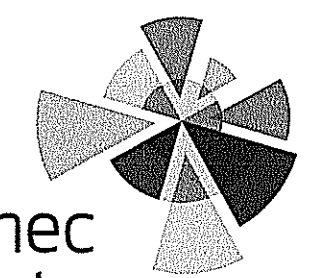
PROPERTY LINES SURVEYED BY
DIPRETE ENGINEERING. ALL OTHERS
SCALED FROM ASSESSOR'S MAPS

SCALE: 1"=40'



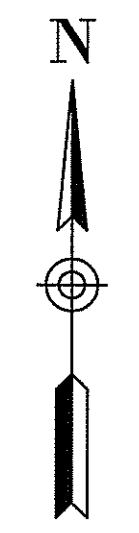
AMEC FOSTER WHEELER
 ENVIRONMENT & INFRASTRUCTURE, INC.
 275 PROMENADE STREET, SUITE 100
 PROVIDENCE RHODE ISLAND, 02908
 WEB: WWW.AMECFW.COM
 401-646-9240





amec
foster
wheeler

AMEC FOSTER WHEELER
ENVIRONMENT & INFRASTRUCTURE, INC.
278 PROMENADE STREET, SUITE 100
PROVIDENCE RHODE ISLAND, 02908
WEB: WWW.AMECFW.COM
401-648-9240

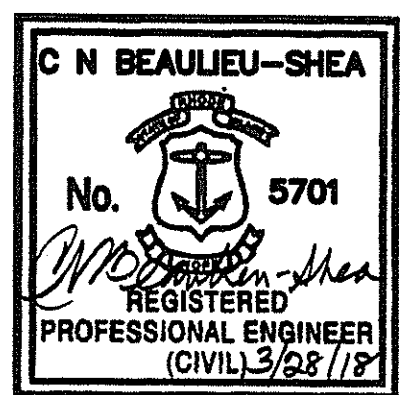


NOTE:
REFER TO PLANS BY IRONWOOD DESIGN
GROUP FOR ALL LANDSCAPE ELEMENTS,
INCLUDING BIKE TRACKS, PATHS,
PLAYGROUNDS, PARKOUR ELEMENTS,
AND RECREATION DESIGN.

Kindly be advised that this
Permit is not equivalent to a
verification of the type or extent
of freshwater wetlands on site.

Christopher D. Wensel
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 02 2018 FILE # 18-0030
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

NOT FOR CONSTRUCTION
SEAL:



REVISION	DATE	DESCRIPTION
1	03/28/2018	RIDEM COMMENTS

CLIENT:
**Providence Parks
Department**
25 DORRANCE STREET
PROVIDENCE, RI 02903

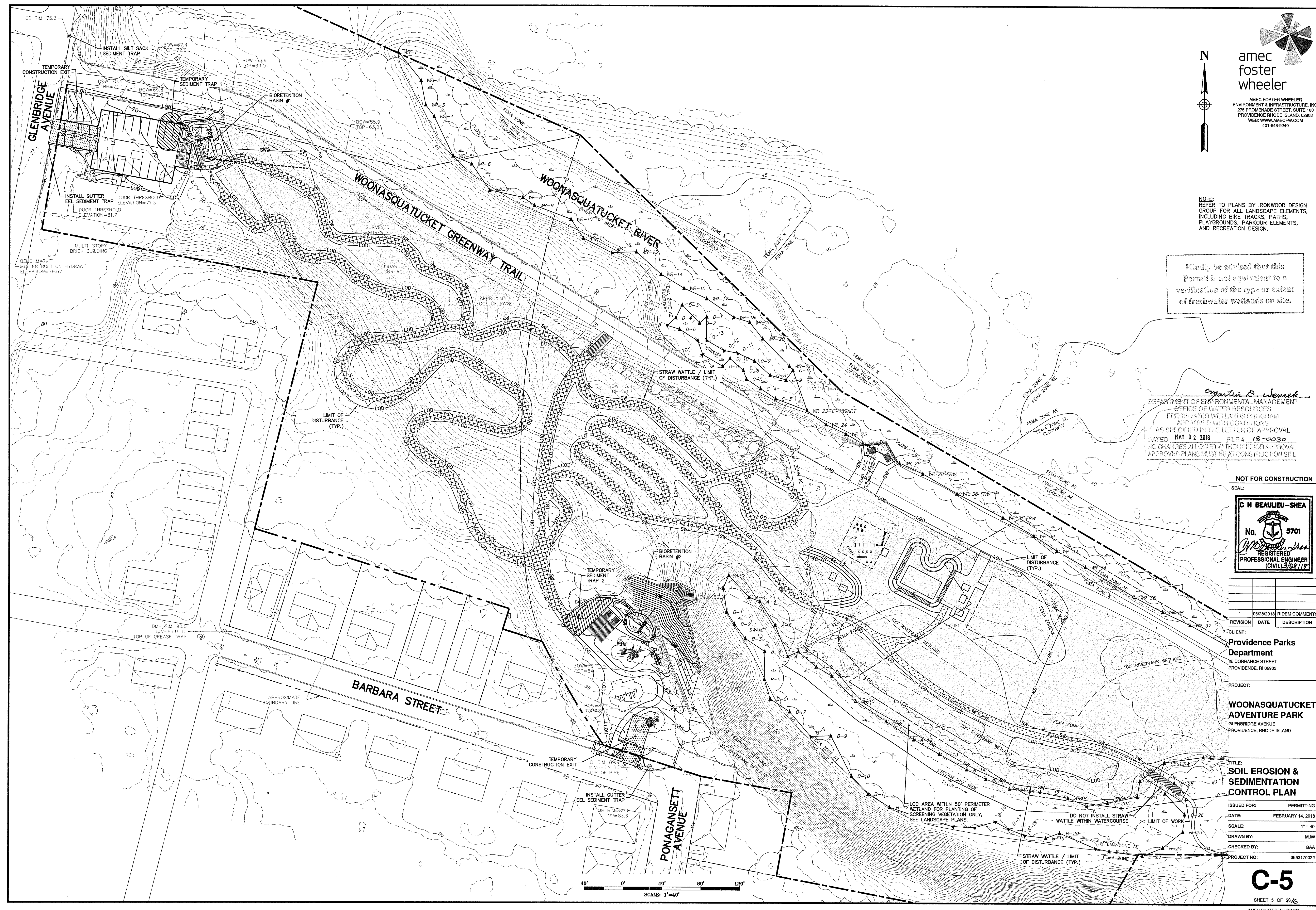
PROJECT:
**WOONASQUATUCKET
ADVENTURE PARK**
GLENBRIDGE AVENUE
PROVIDENCE, RHODE ISLAND

TITLE:
**SOIL EROSION &
SEDIMENTATION
CONTROL PLAN**

ISSUED FOR: PERMITTING
DATE: FEBRUARY 14, 2018
SCALE: 1" = 40'
DRAWN BY: MLW
CHECKED BY: GAA
PROJECT NO: 3653170022

C-5
SHEET 5 OF 26

AMEC FOSTER WHEELER



CB RIM=75.3

INSTALL SILT SACK
SEDIMENT TRAP

TEMPORARY
SEDIMENT TRAP 1

BIORETENTION
BASIN #1

INSTALL GUTTER
EEL SEDIMENT TRAP

DOOR THRESHOLD
ELEVATION=71.3

DOOR THRESHOLD
ELEVATION=81.7

BENCHMARK
MULLER BOLT ON HYDRANT
ELEVATION=79.62

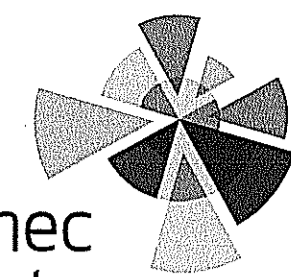
WOONASQUATUCKET RIVER

WOONASQUATUCKET GREENWAY TRAIL

BARBARA STREET

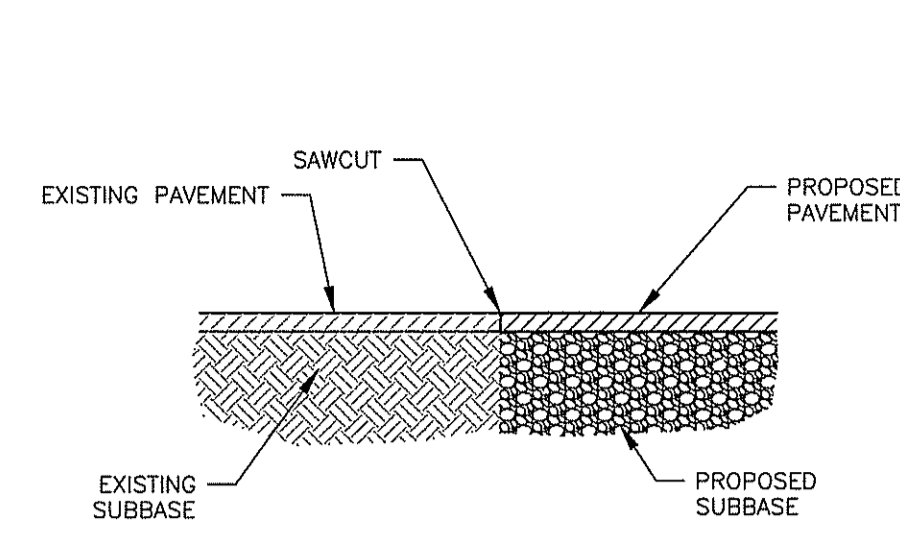
PONAGANSETT
AVENUE

SCALE: 1"=40'



amec foster wheeler

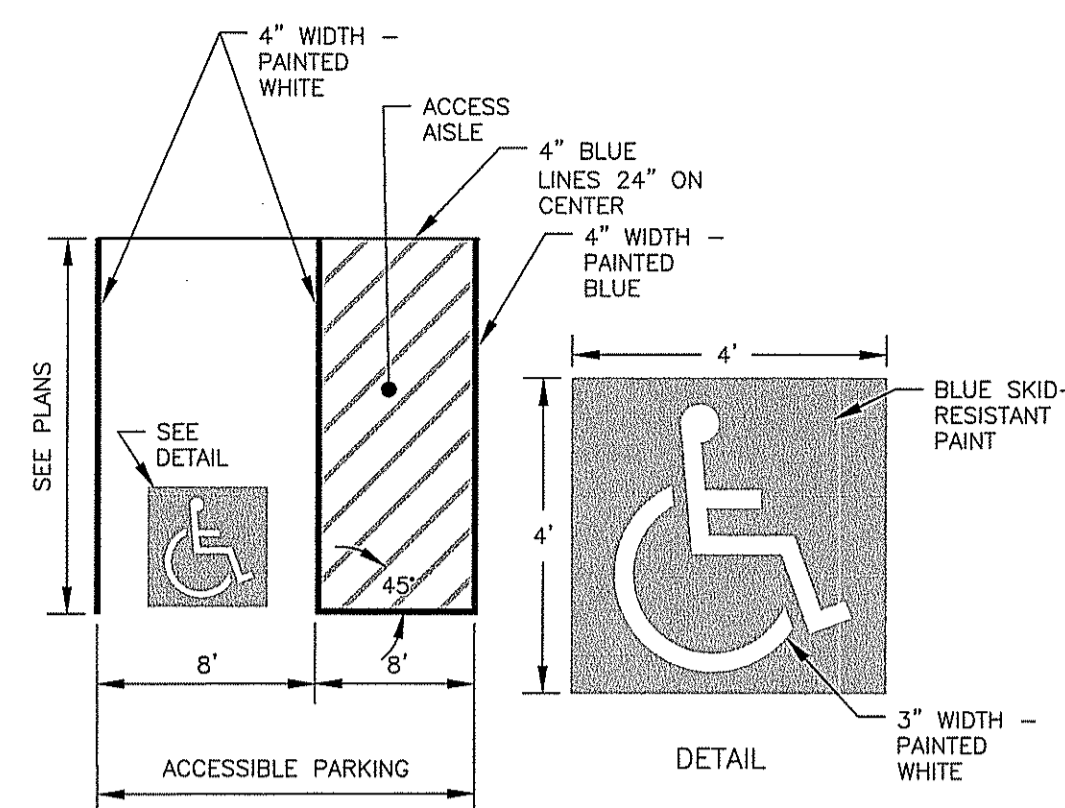
AMEC FOSTER WHEELER ENVIRONMENT & INFRASTRUCTURE, INC. 275 PROMENADE STREET, SUITE 100 PROVIDENCE RHODE ISLAND, 02909 WEB: WWW.AMECFW.COM 401-648-9240



- NOTES: 1. CLEAN SAWED JOINTS WITH COMPRESSED AIR. 2. APPLY JOINT SEAL MATERIAL FILLING FROM THE BOTTOM UP. 3. THE HOT-SEAL MATERIAL SHALL COMPLETELY FILL THE SAWCUT SUCH THAT AFTER COOLING THE LEVEL OF THE SEALER WILL NOT BE GREATER THAN 1/8 INCH BELOW THE PAVEMENT SURFACE. 4. CARE SHALL BE TAKEN DURING THE SEALING OPERATION TO INSURE THAT THE FINAL APPEARANCE WILL PRESENT A NEAT LINE.

PAVEMENT SAWCUT

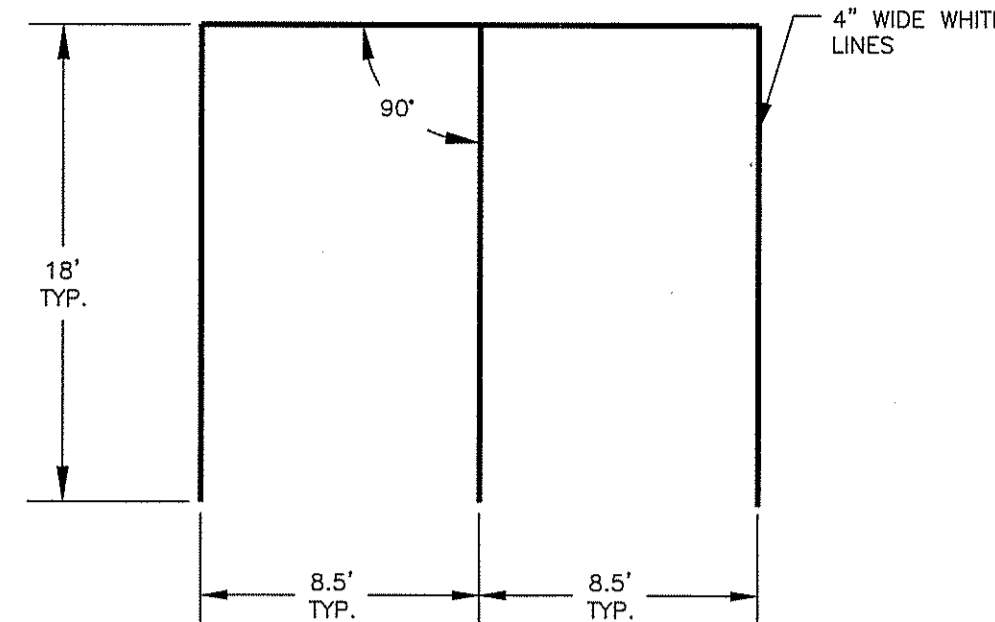
NTS CA-RD-024



- NOTES: 1. ALL DIMENSIONS TO EDGES OF 4" PAVEMENT STRIPING. 2. 8' STALL WIDTH REFERS TO 8' CLEARANCE BETWEEN INSIDE EDGES OF PAVEMENT MARKINGS. 3. ALL SLOPES THROUGHOUT THE ACCESSIBLE PARKING AND AISLE AREAS SHALL NOT EXCEED 2.0%.

ADA PARKING SPACE

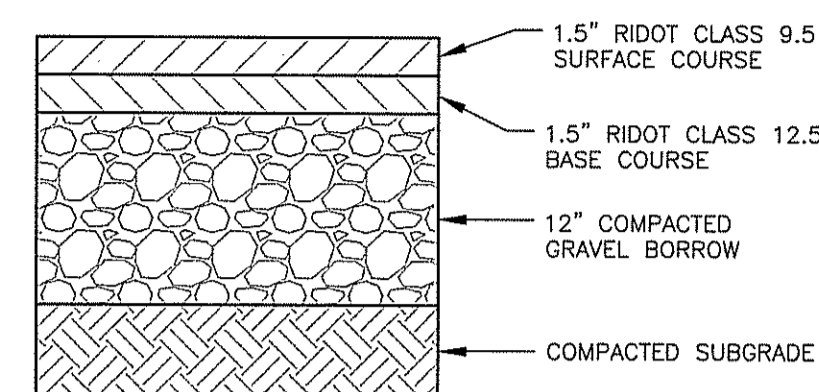
NTS AFW



- NOTES: 1. ALL DIMENSIONS TO CENTER OF 4" PAVEMENT STRIPING. 2. ALL PARKING SPACE STRIPING SHALL BE 4" WIDE SOLID WHITE PAVEMENT MARKINGS UNLESS OTHERWISE NOTED.

STANDARD PARKING SPACES

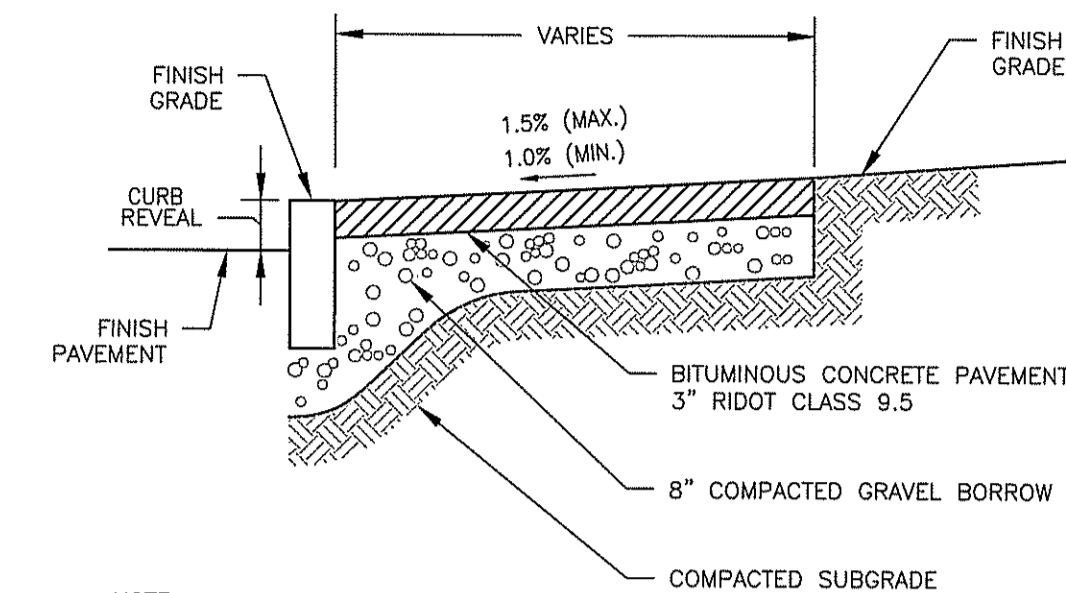
NTS



NOTE: PAVEMENT SHALL BE INSTALLED IN ACCORDANCE WITH RIDOT SPECIFICATIONS.

BITUMINOUS CONCRETE PAVEMENT

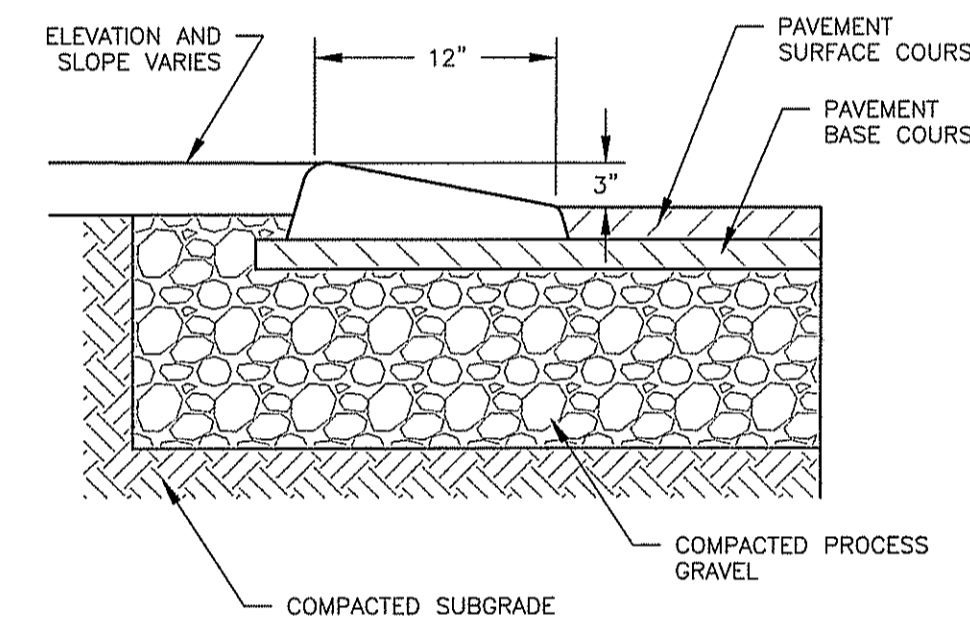
NTS AFW



NOTE: BOTH SURFACE AND BINDER MATERIAL SHALL BE DENSE MIX.

BITUMINOUS CONCRETE SIDEWALK

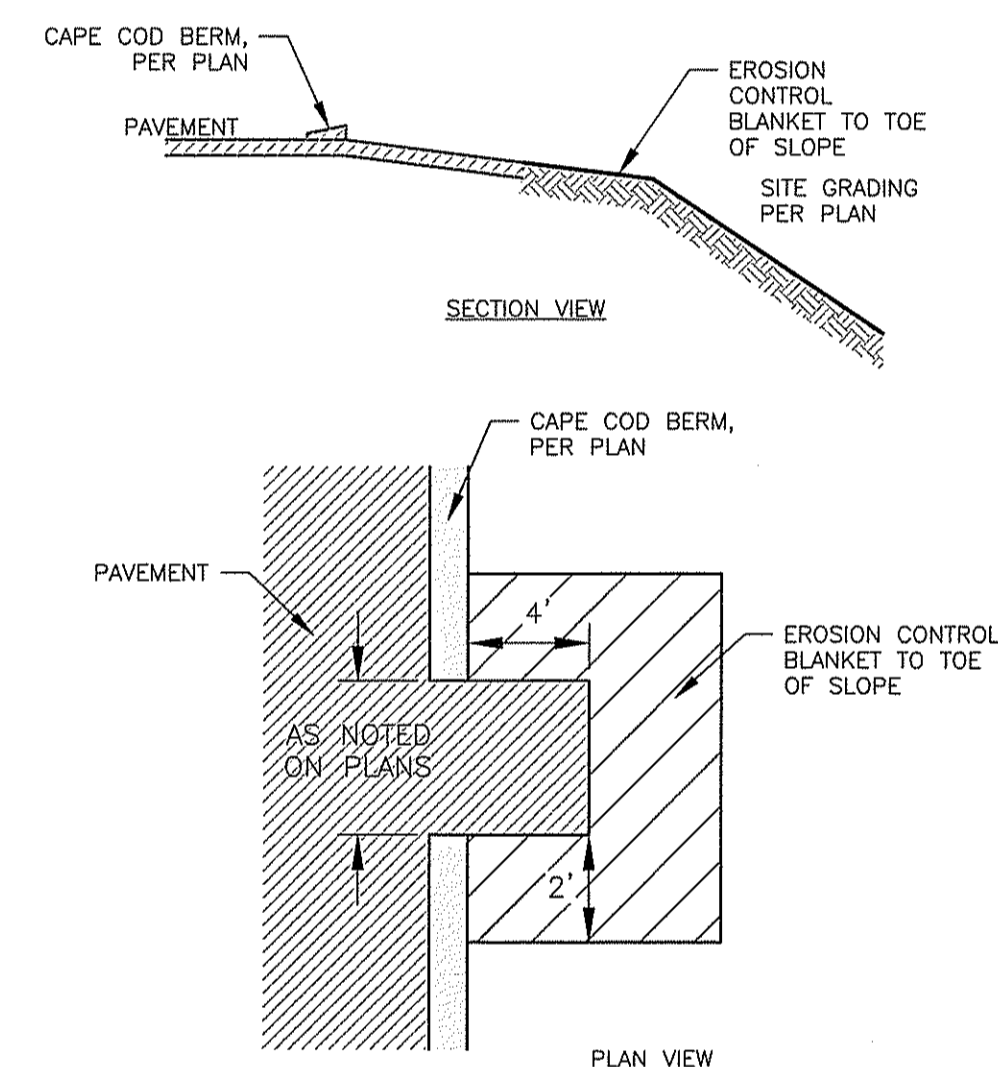
NTS AFW



- NOTES: 1. ALL CURBING TO BE MACHINE EXTRUDED. 2. CCB SHALL BE INSTALLED IN ACCORDANCE WITH RIDOT SPECIFICATIONS.

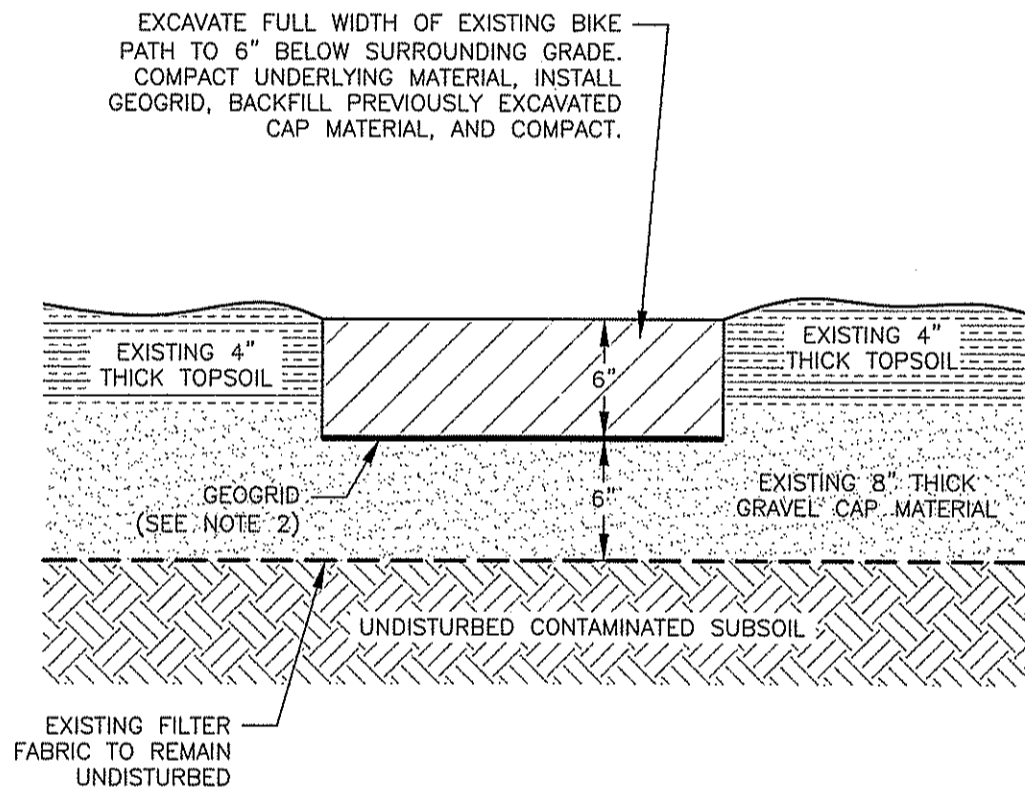
CAPE COD BERM

NTS AFW



CURB CUT

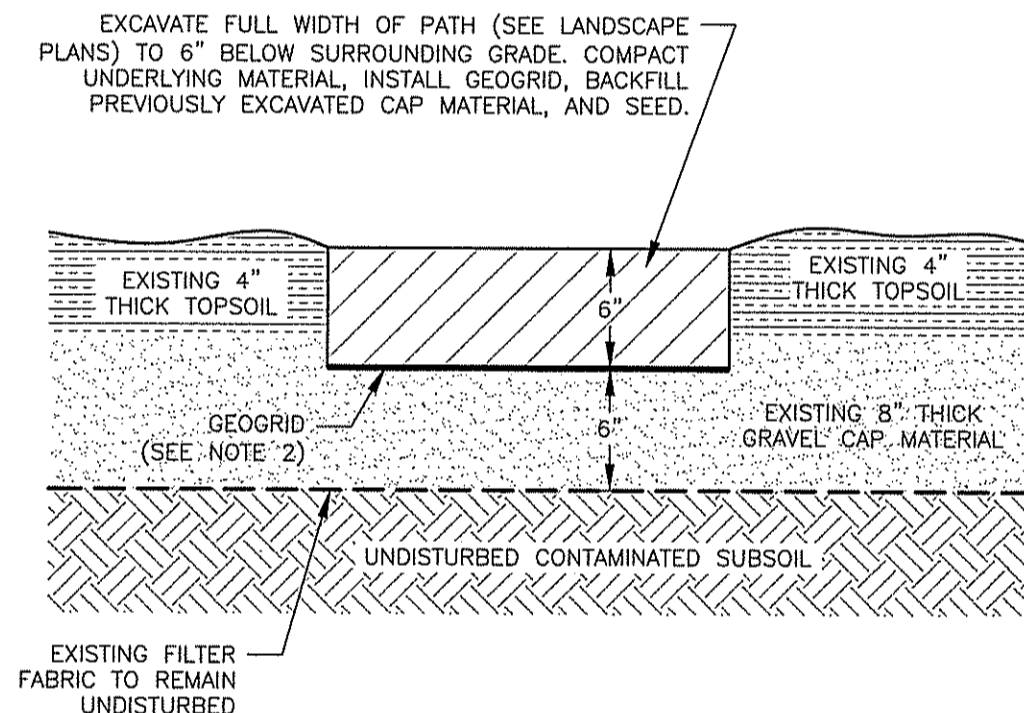
NTS CA-001



- NOTES: 1. BOTTOM 6" CAP LAYER TO REMAIN OVER CONTAMINATED SOIL THROUGHOUT CONSTRUCTION. 2. GEOGRID TO BE TENSAR MODEL BX1100, INSTALLED IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS.

BIKE TRAIL SECTION

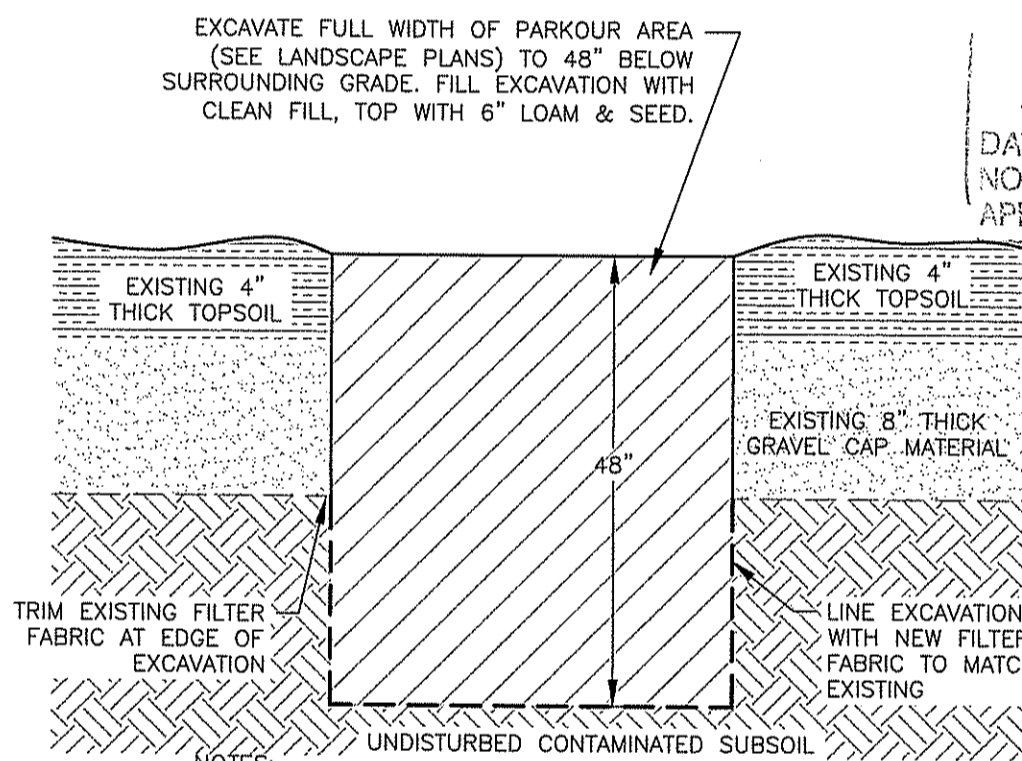
NTS AFW



- NOTES: 1. BOTTOM 6" CAP LAYER TO REMAIN OVER CONTAMINATED SOIL THROUGHOUT CONSTRUCTION. 2. GEOGRID TO BE TENSAR MODEL BX1100, INSTALLED IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS.

GRASSED TRAIL SECTION

NTS AFW



- NOTES: 1. EXCAVATED CONTAMINATED MATERIAL MAY BE RE-USED IN PROPOSED PICNIC BERM (SEE LANDSCAPE PLANS). RE-LOCATED CONTAMINATED SOILS MUST BE CAPPED IN ACCORDANCE WITH REQUIREMENTS SHOWN ON EA PLANS.

PARKOUR AREA SECTION

NTS AFW

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF WATER RESOURCES FRESHWATER WETLANDS PROGRAM APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL DATED MAY 02 2018 FILE # 13-0030 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Martin D. Wencel

NOT FOR CONSTRUCTION

SEAL:

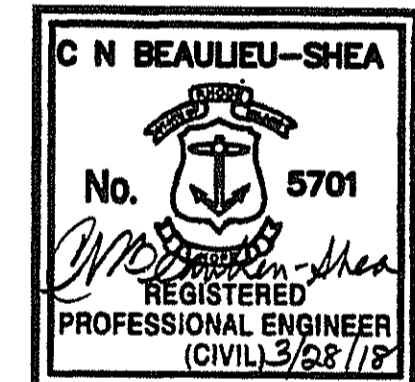


Table with 3 columns: REVISION, DATE, DESCRIPTION. Row 1: 1, 03/28/2018, RIDEM COMMENTS

CLIENT: Providence Parks Department 25 DORRANCE STREET PROVIDENCE, RI 02903

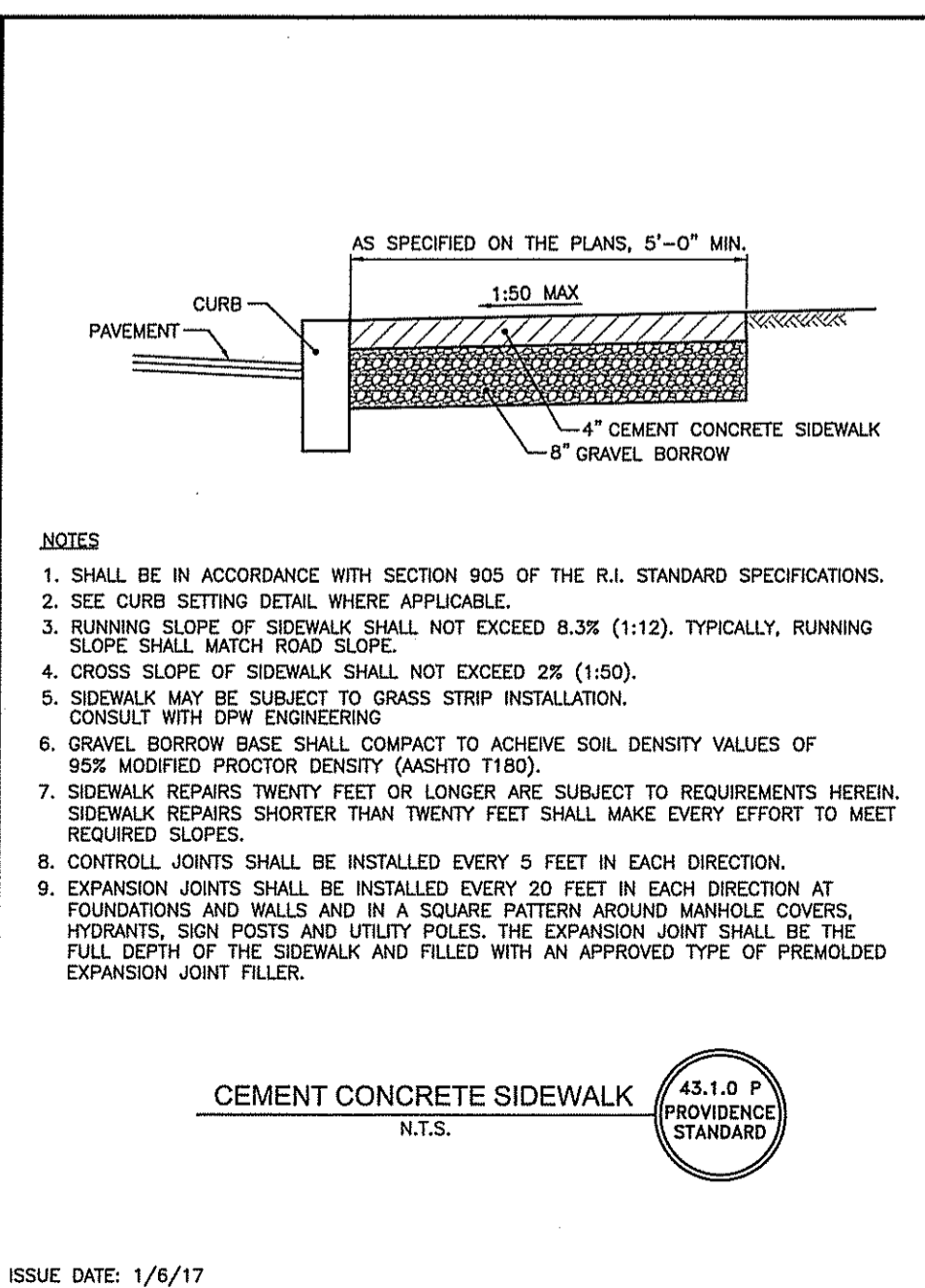
PROJECT: WOONASQUATUCKET ADVENTURE PARK GLENBRIDGE AVENUE PROVIDENCE, RHODE ISLAND

TITLE: DETAILS-1

Table with 2 columns: ISSUED FOR, PERMITTING. Row 1: DATE: FEBRUARY 14, 2018; SCALE: N/A; DRAWN BY: M/JW; CHECKED BY: GAA; PROJECT NO: 3653170022

C-6

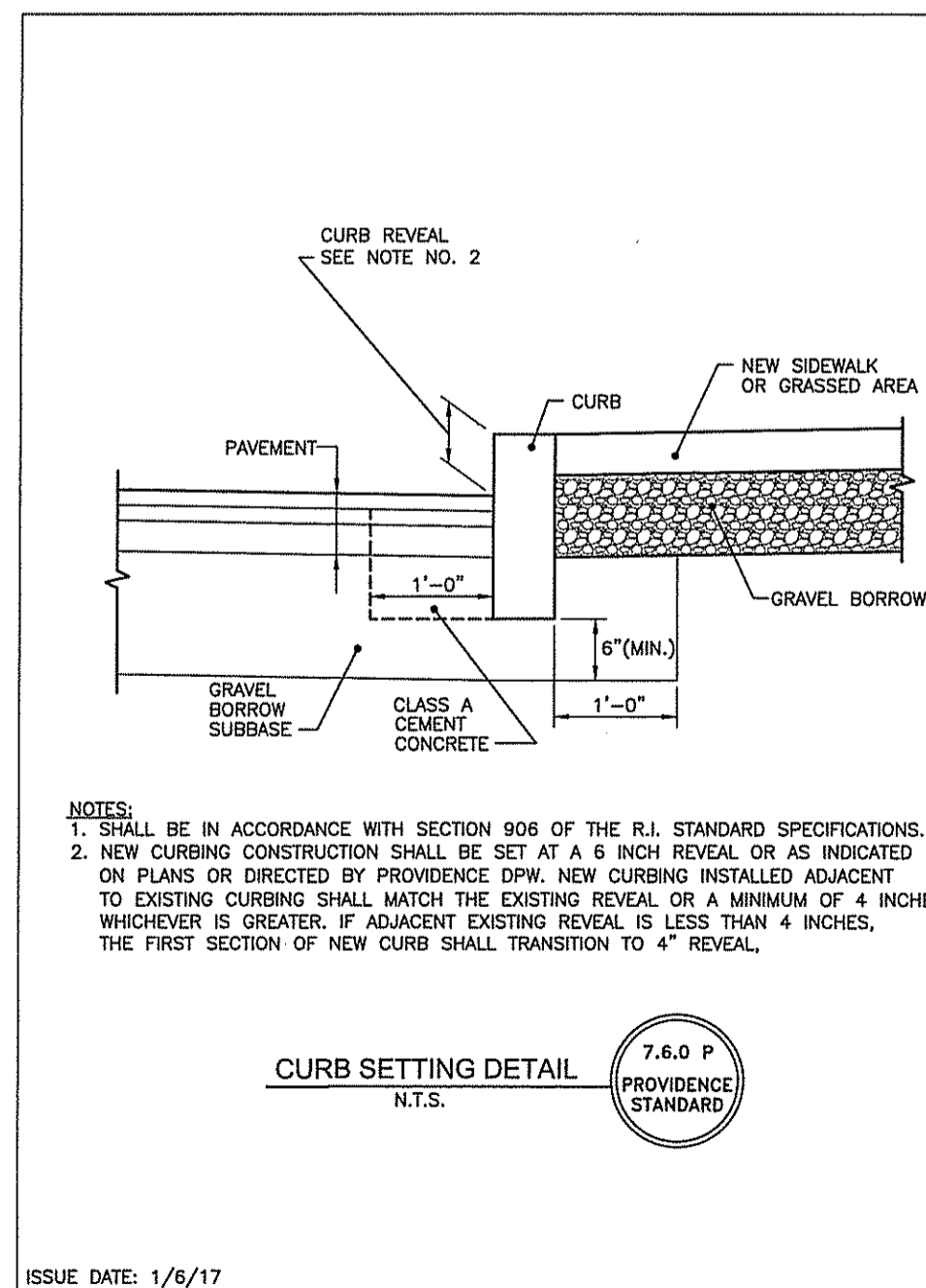
SHEET 6 OF 25/6 AMEC FOSTER WHEELER



- NOTES: 1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS. 2. SEE CURB SETTING DETAIL WHERE APPLICABLE. 3. RUNNING SLOPE OF SIDEWALK SHALL NOT EXCEED 8.3% (1:12). TYPICALLY, RUNNING SLOPE SHALL MATCH ROAD SLOPE. 4. CROSS SLOPE OF SIDEWALK SHALL NOT EXCEED 2% (1:50). 5. SIDEWALK MAY BE SUBJECT TO GRASS STRIP INSTALLATION. CONSULT WITH DPW ENGINEERING. 6. GRAVEL BORROW BASE SHALL COMPACT TO ACHIEVE SOIL DENSITY VALUES OF 95% MODIFIED PROCTOR DENSITY (AASHTO T180). 7. SIDEWALK REPAIRS TWENTY FEET OR LONGER ARE SUBJECT TO REQUIREMENTS HEREIN. SIDEWALK REPAIRS SHORTER THAN TWENTY FEET SHALL MAKE EVERY EFFORT TO MEET REQUIRED SLOPES. 8. CONTROL JOINTS SHALL BE INSTALLED EVERY 9 FEET IN EACH DIRECTION. 9. EXPANSION JOINTS SHALL BE INSTALLED EVERY 20 FEET IN EACH DIRECTION AT FOUNDATIONS AND WALLS AND IN A SQUARE PATTERN AROUND MANHOLE COVERS, HYDRANTS, SIGN POSTS AND UTILITY POLES. THE EXPANSION JOINT SHALL BE THE FULL DEPTH OF THE SIDEWALK AND FILLED WITH AN APPROVED TYPE OF FRESHLOID EXPANSION JOINT FILLER.

CEMENT CONCRETE SIDEWALK 43.1.0 P PROVIDENCE STANDARD

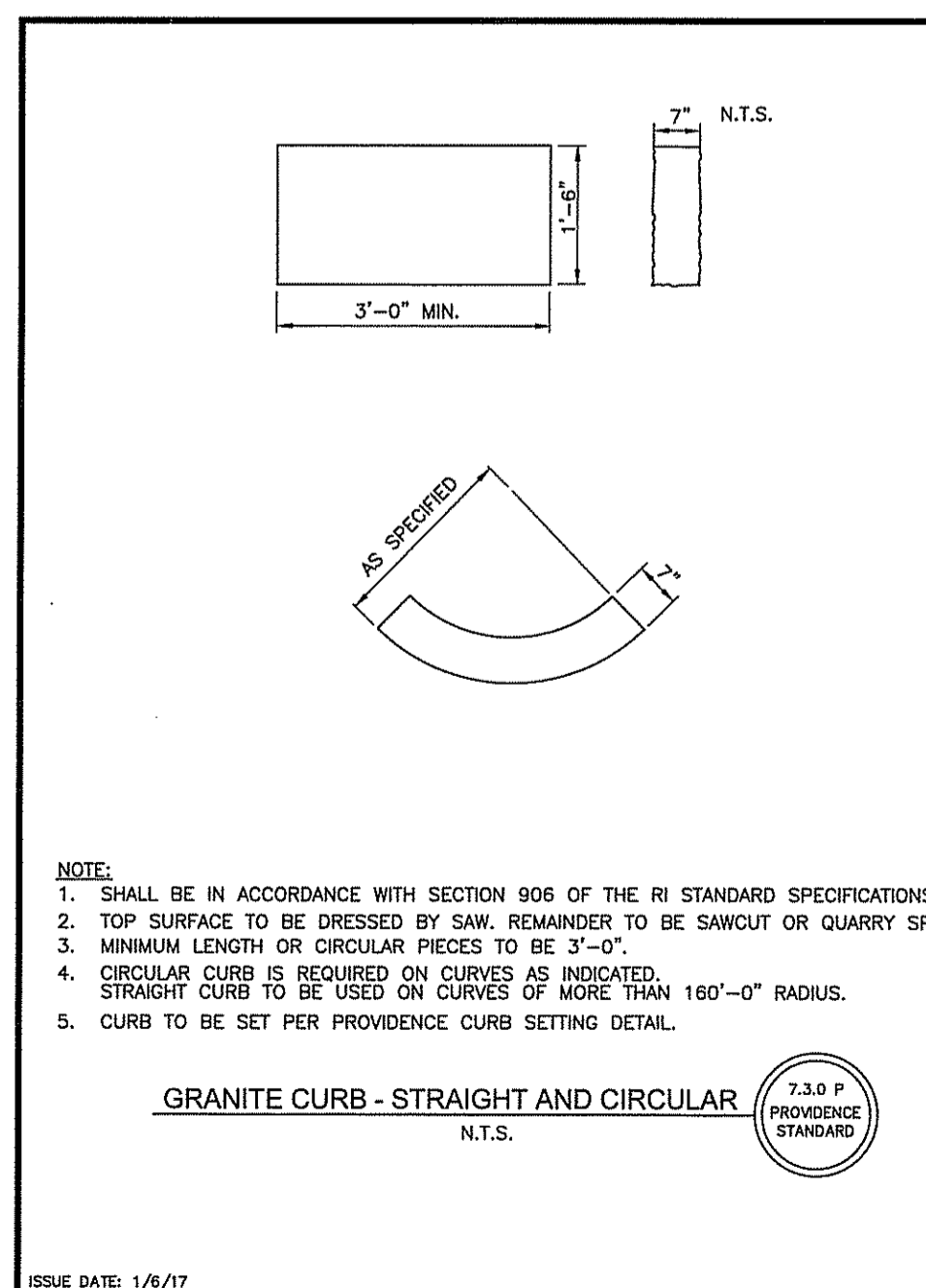
ISSUE DATE: 1/6/17



- NOTES: 1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS. 2. NEW CURBING CONSTRUCTION SHALL BE SET AT A 6 INCH REVEAL OR AS INDICATED ON PLANS OR DIRECTED BY PROVIDENCE DPW. NEW CURBING INSTALLED ADJACENT TO EXISTING CURBING SHALL MATCH THE EXISTING REVEAL OR A MINIMUM OF 4 INCHES, WHICHEVER IS GREATER. IF ADJACENT EXISTING REVEAL IS LESS THAN 4 INCHES, THE FIRST SECTION OF NEW CURB SHALL TRANSITION TO 4" REVEAL.

CURB SETTING DETAIL 7.6.0 P PROVIDENCE STANDARD

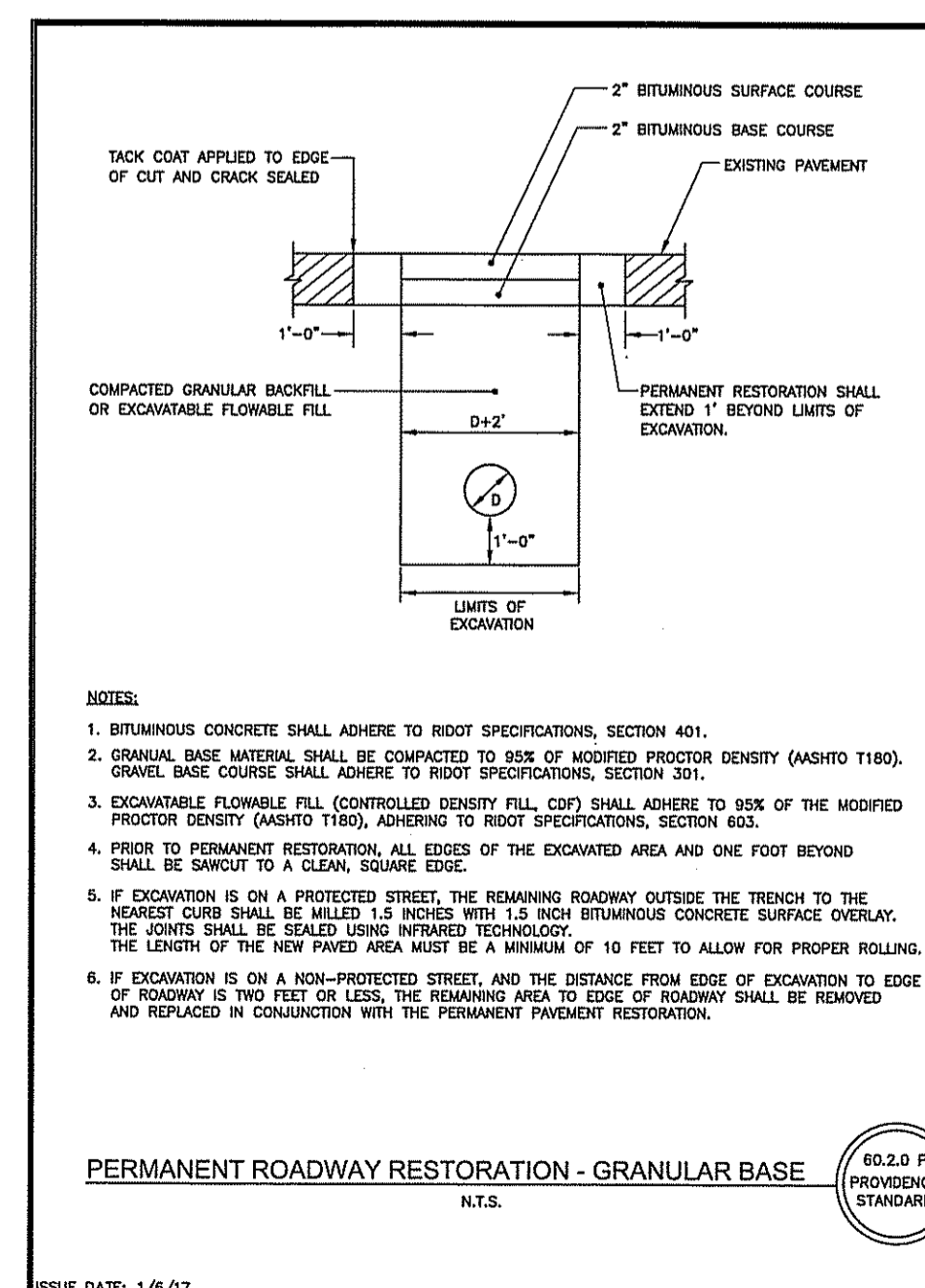
ISSUE DATE: 1/6/17



- NOTE: 1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE RI STANDARD SPECIFICATIONS. 2. TOP SURFACE TO BE DRESSED BY SAW. REMAINDER TO BE SAWCUT OR QUARRY SPLIT. 3. MINIMUM LENGTH OR CIRCULAR PIECES TO BE 3'-0". 4. CIRCULAR CURB IS REQUIRED ON CURVES AS INDICATED. STRAIGHT CURB TO BE USED ON CURVES OF MORE THAN 160'-0" RADIUS. 5. CURB TO BE SET PER PROVIDENCE CURB SETTING DETAIL.

GRANITE CURB - STRAIGHT AND CIRCULAR 7.3.0 P PROVIDENCE STANDARD

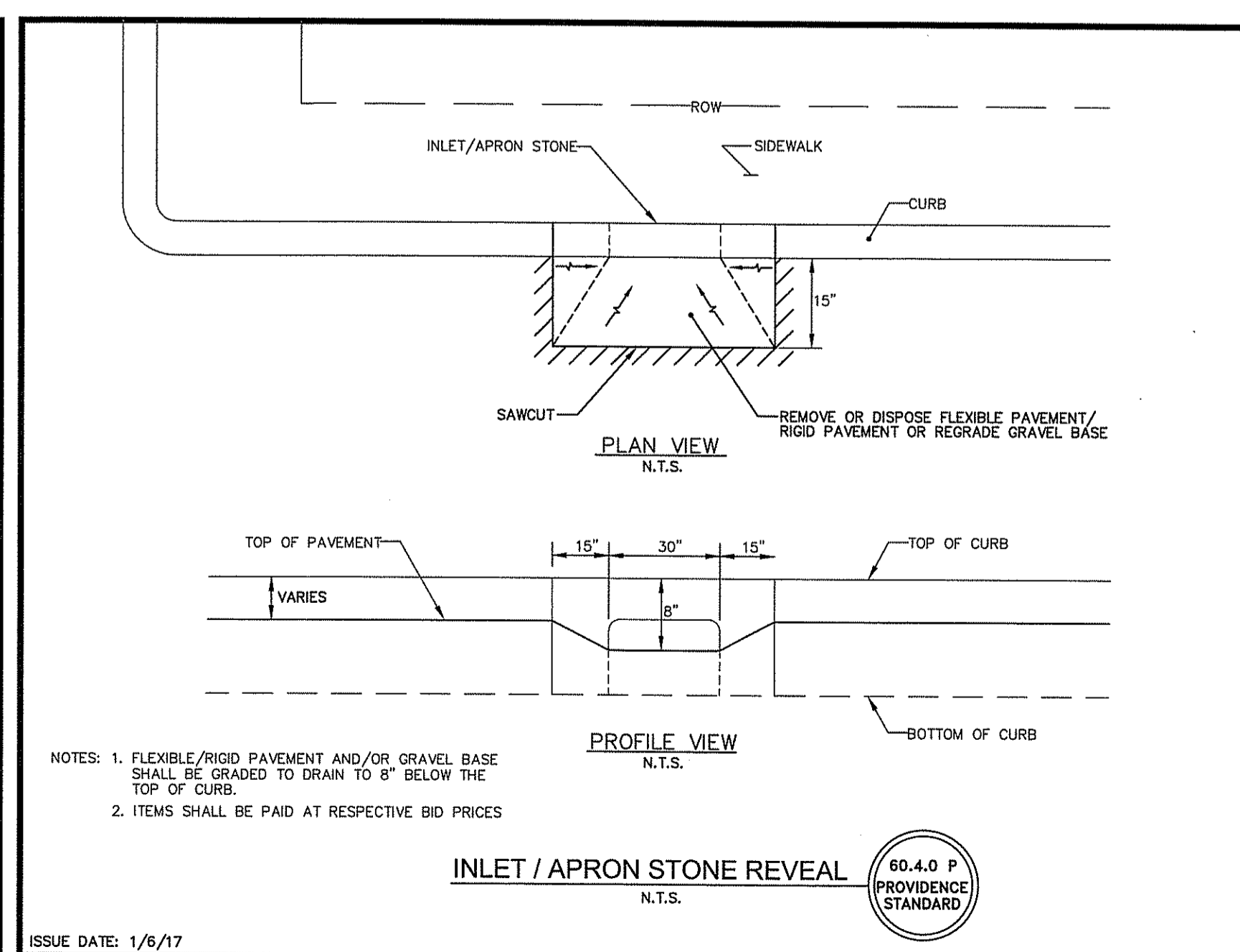
ISSUE DATE: 1/6/17



- NOTES: 1. BITUMINOUS CONCRETE SHALL ADHERE TO RIDOT SPECIFICATIONS, SECTION 401. 2. GRANULAR BASE MATERIAL SHALL BE COMPACTED TO 90% OF MODIFIED PROCTOR DENSITY (AASHTO T180). GRANULAR BASE COURSE SHALL ADHERE TO RIDOT SPECIFICATIONS, SECTION 301. 3. EXCAVATABLE FLOWABLE FILL (CONTROLLED DENSITY FILL, CDF) SHALL ADHERE TO 85% OF THE MODIFIED PROCTOR DENSITY (AASHTO T180), ADHERING TO RIDOT SPECIFICATIONS, SECTION 402. 4. PRIOR TO PERMANENT RESTORATION, ALL EDGES OF THE EXCAVATED AREA AND ONE FOOT BEYOND SHALL BE SAWCUT TO A CLEAN, SQUARE EDGE. 5. IF EXCAVATION IS ON A PROTECTED STREET, THE REMAINING ROADWAY OUTSIDE THE TRENCH TO THE EXISTING CURB SHALL BE HEAVED 1.5 INCHES WITH 1.5 INCH BITUMINOUS CONCRETE SURFACE OVERLAY. THE JOINTS SHALL BE SEALED USING INFRARED TECHNOLOGY. THE LENGTH OF THE NEW PAVED AREA MUST BE A MINIMUM OF 10 FEET TO ALLOW FOR PROPER ROLLING. 6. IF EXCAVATION IS ON A NON-PROTECTED STREET, THE DISTANCE FROM EDGE OF EXCAVATION TO EDGE OF ROADWAY IS TWO FEET OR LESS, THE REMAINING AREA TO EDGE OF ROADWAY SHALL BE REMOVED AND REPLACED IN CONJUNCTION WITH THE PERMANENT PAVEMENT RESTORATION.

PERMANENT ROADWAY RESTORATION - GRANULAR BASE 60.2.0 P PROVIDENCE STANDARD

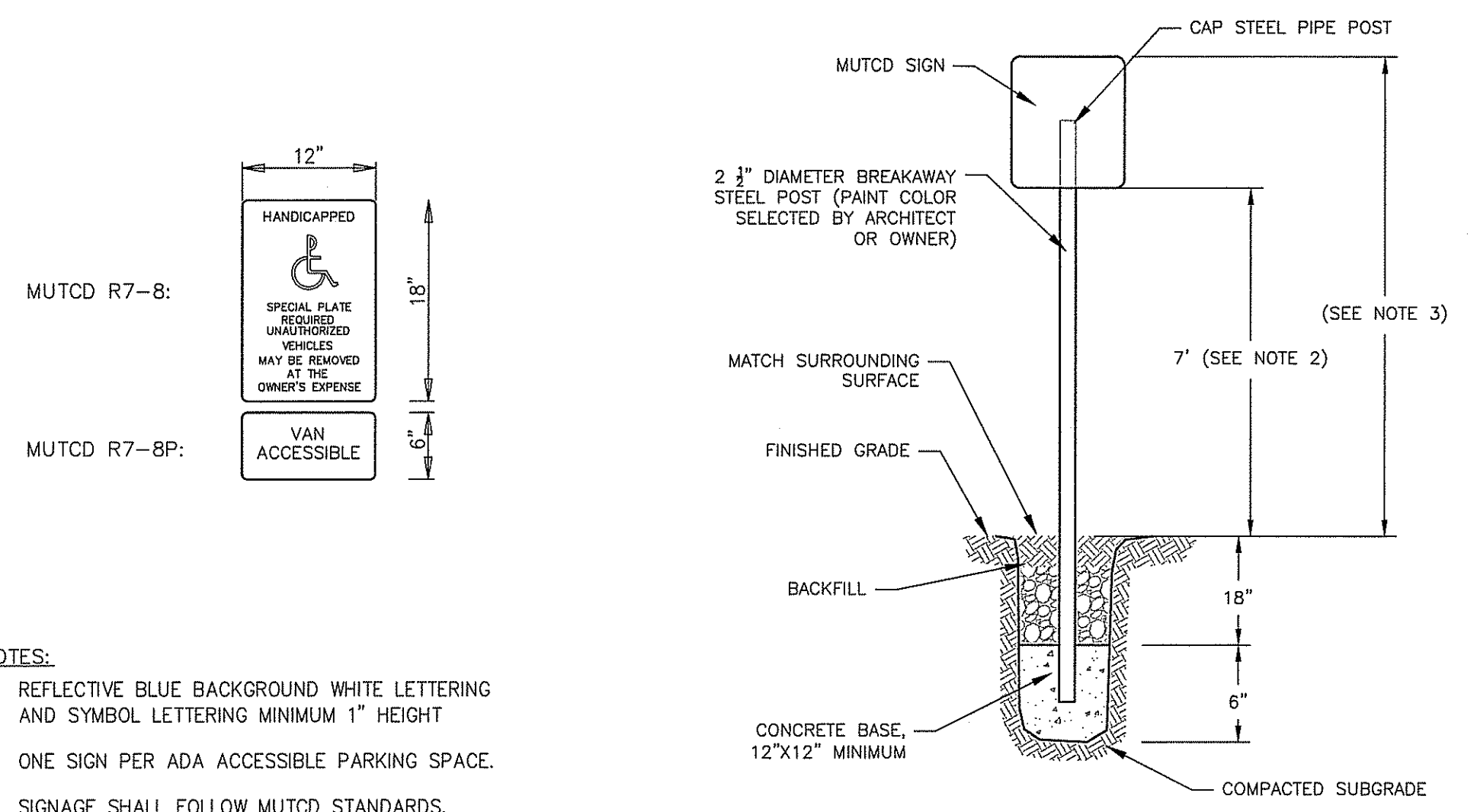
ISSUE DATE: 1/6/17



- NOTES: 1. FLEXIBLE/RIGID PAVEMENT AND/OR GRAVEL BASE SHALL BE GRADED TO DRAIN TO 8" BELOW THE TOP OF CURB. 2. ITEMS SHALL BE PAID AT RESPECTIVE BID PRICES

INLET / APRON STONE REVEAL 60.4.0 P PROVIDENCE STANDARD

ISSUE DATE: 1/6/17

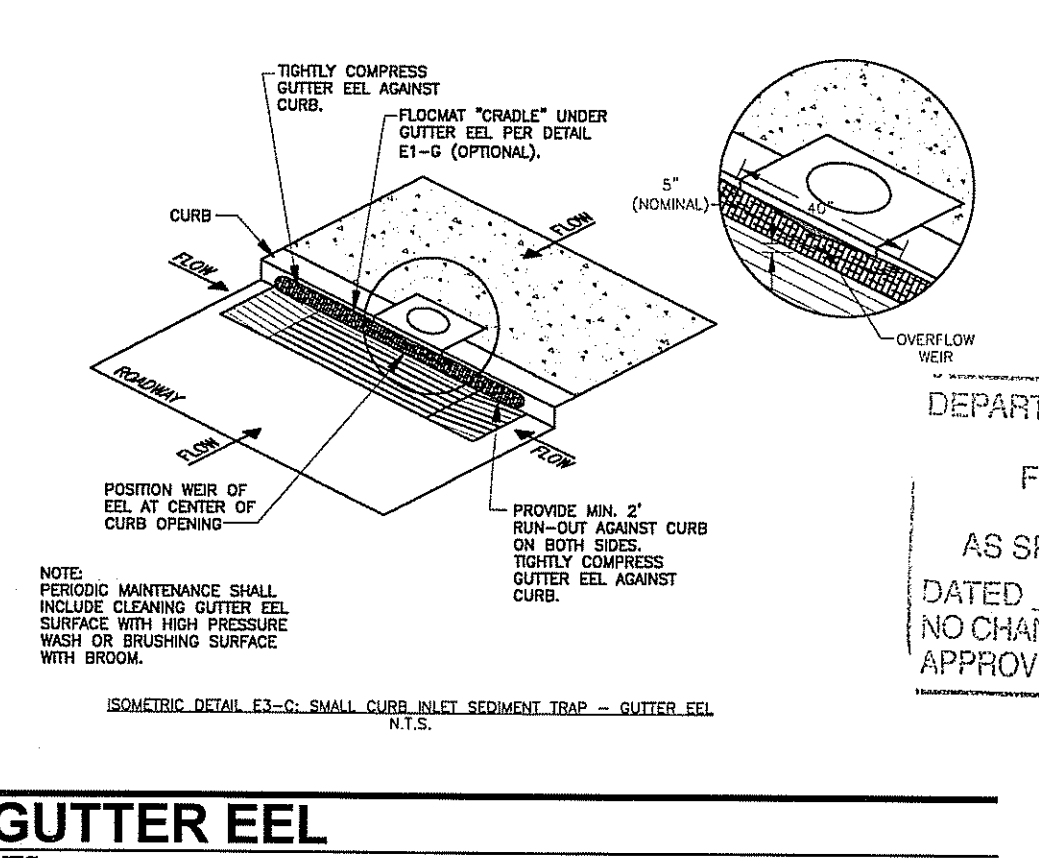
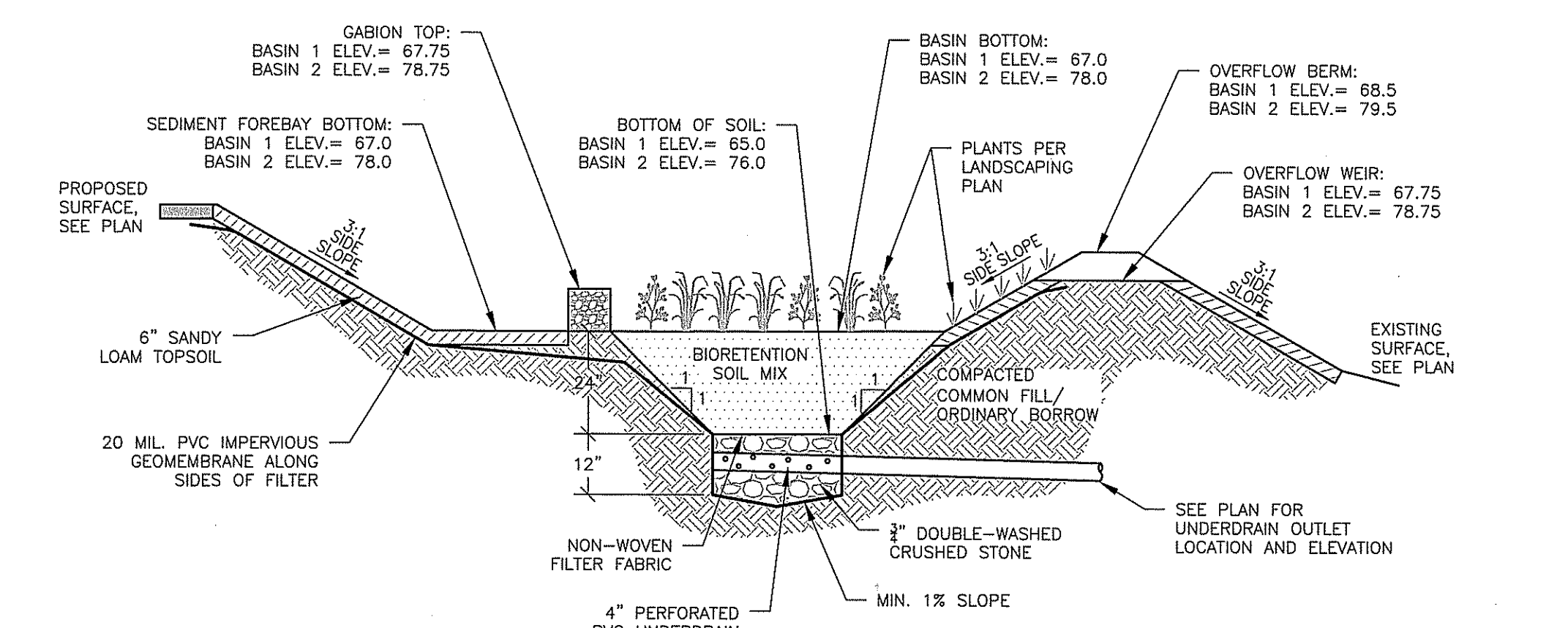
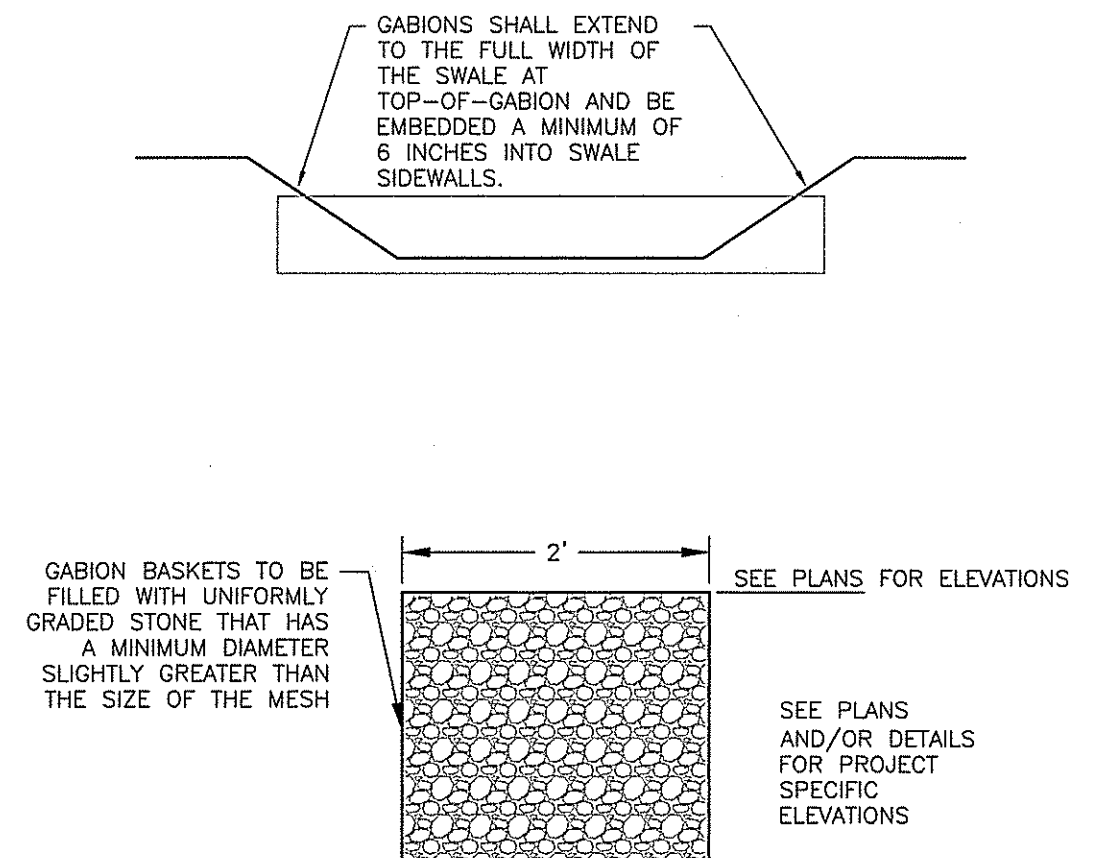
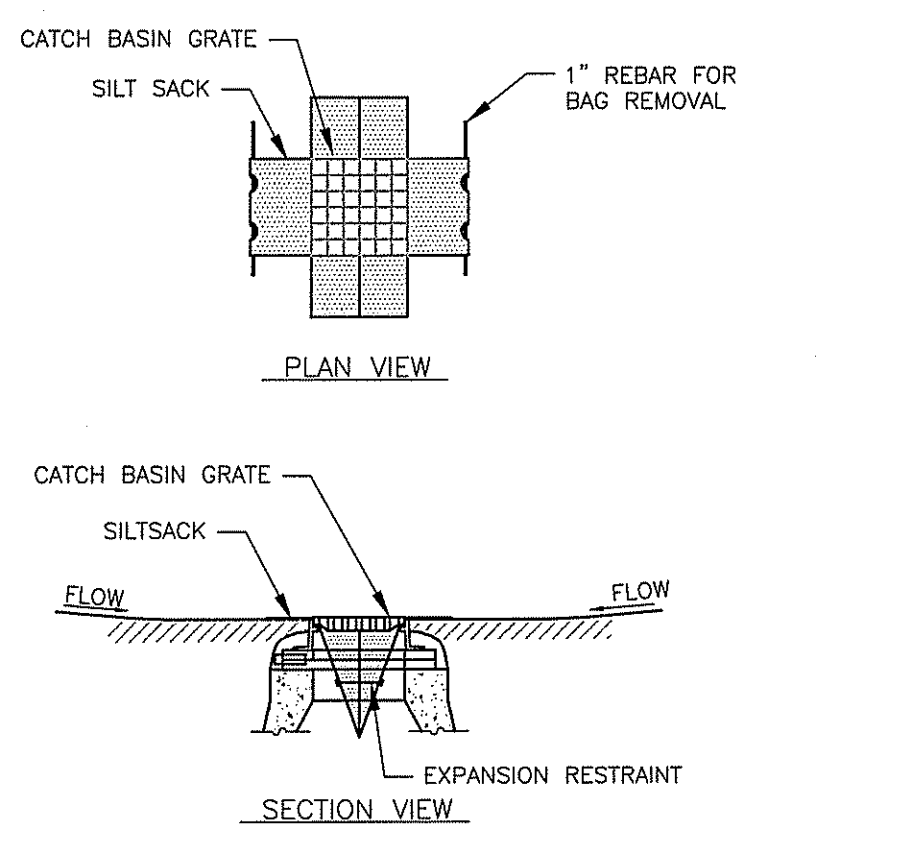


ACCESSIBLE PARKING SIGNS
NTS CA-M-004

SIGN POST
NTS CA-SS-001

DUMPSTER ENCLOSURE
NTS CA-M-006

BOLLARD
NTS CA-M-004

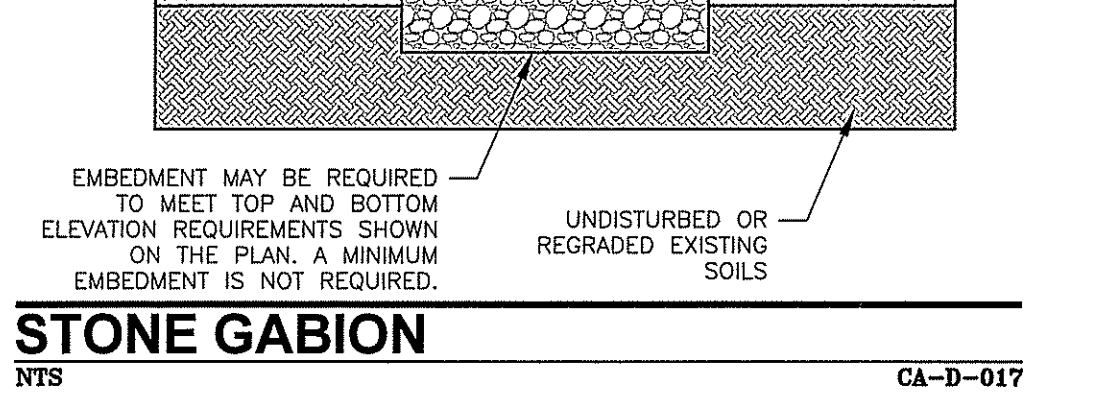


DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 02 2018 FILE # 18-0030
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Jonathan B. Wemack

- NOTES:
1. INSTALL SILT SACK IN ALL CATCH BASINS WHERE INDICATED ON THE PLAN BEFORE COMMENCING WORK.
2. GRATE TO BE PLACED OVER SILT SACK.
3. SILT SACK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS AND CLEANING OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED.
4. MAINTAIN UNTIL UP-GRADE AREAS HAVE BEEN PERMANENTLY STABILIZED.

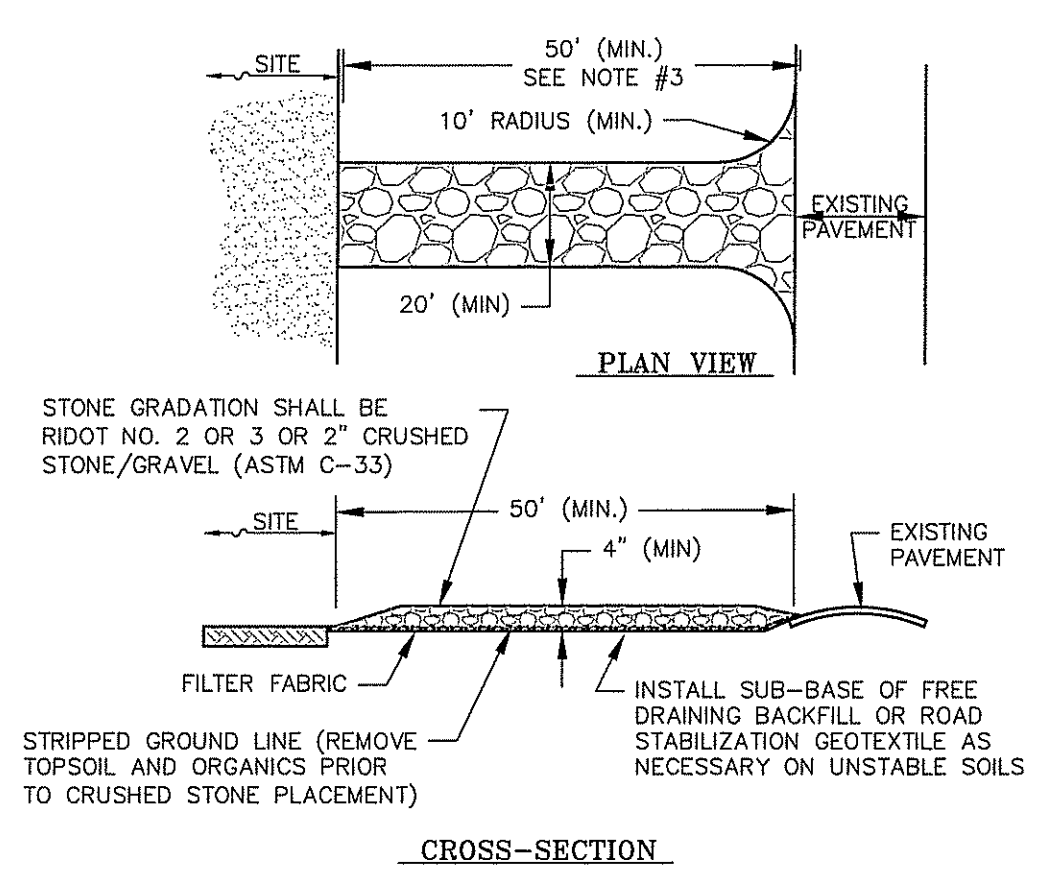
SILT SACK SEDIMENT TRAP
NTS AFW



STONE GABION
NTS CA-D-017

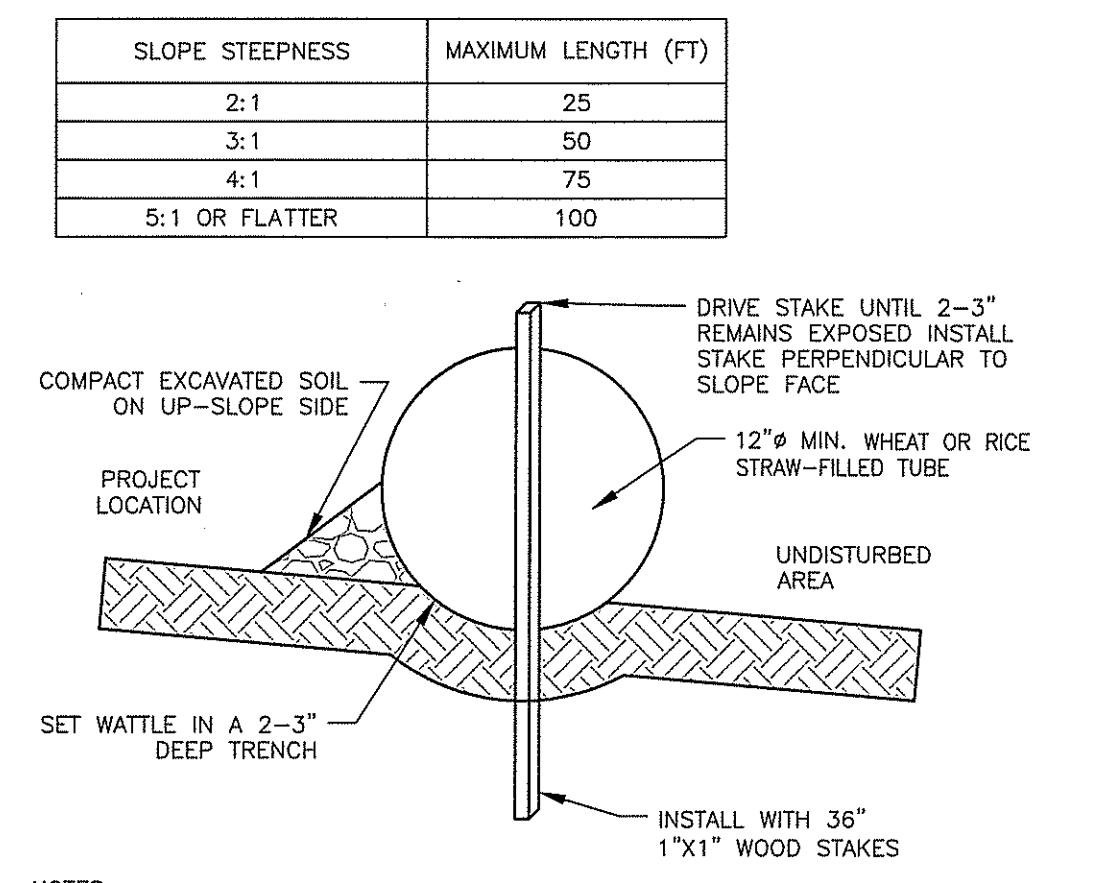
- NOTES:
1. BIORETENTION SOIL MIX SHALL BE:
85-88% SAND
8-12% SILT
0-2% CLAY
3-8% LEAF COMPOST
2. SIDE SLOPES SHALL BE 3:1 MAX. 2% MIN.
3. CONTRACTOR SHALL SUBMIT A SIEVE ANALYSIS OF BIORETENTION SOIL MIX TO ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
4. SEE PLANS BY LANDSCAPE ARCHITECT FOR PLANTING REQUIREMENTS.

BIORETENTION BASIN
NTS AFW



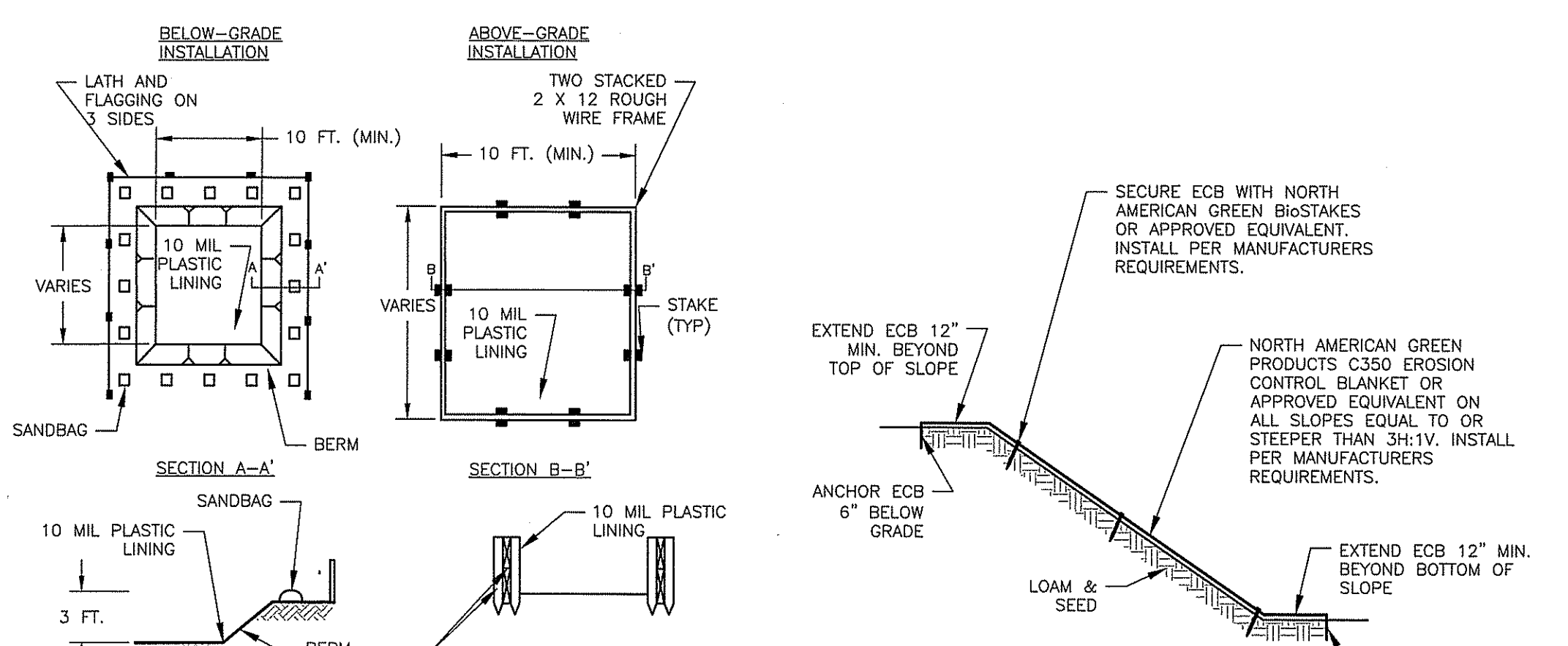
- NOTES:
1. ENTRANCE WIDTH SHALL BE TWENTY (20) FEET WIDE MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
2. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PAVED SURFACES. PROVIDE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS CONDITIONS DEMAND. REPAIR ANY MEASURES USED TO TRAP SEDIMENT AS NEEDED. IMMEDIATELY REMOVE ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PAVED SURFACES. ROADS ADJACENT TO A CONSTRUCTION SITE SHALL BE LEFT CLEAN AT THE END OF EACH DAY.
3. 50 FEET MINIMUM WHERE THE SOILS ARE SANDS OR GRAVELS OR 100 FEET MINIMUM WHERE SOILS ARE CLAYS OR SILTS, EXCEPT WHERE THE TRAVELED LENGTH IS LESS THAN 50 OR 100 FEET RESPECTIVELY.

TEMPORARY CONSTRUCTION EXIT
NTS CA-BC-005



- NOTES:
1. BEGIN AT THE LOCATION WHERE THE WATTLE IS TO BE INSTALLED BY EXCAVATING A 2-3" DEEP X 9" WIDE TRENCH ALONG THE CONTOUR OF THE SLOPE. EXCAVATED SOIL SHALL BE PLACED UP-SLOPE FROM THE ANCHOR TRENCH.
2. PLACE THE WATTLE IN THE TRENCH SO THAT IT CONTOURS TO THE SOIL SURFACE. COMPACT THE SOIL FROM THE EXCAVATED TRENCH AGAINST THE WATTLE ON THE UP-HILL SIDE. ADJACENT WATTLES SHOULD TIGHTLY ABUT.
3. SECURE THE WATTLE WITH 18-24" STAKES EVERY 3-4' WITH A STAKE ON EACH END. STAKES SHALL BE DRIVEN THROUGH THE MIDDLE OF THE WATTLES LEAVING AT LEAST SAMPLE LINE 2-3" OF STAKE EXTENDING ABOVE. THE WATTLE STAKES SHALL BE DRIVEN PERPENDICULAR TO SLOPE FACE.
4. MAX. DRAINAGE AREA ≤ 0.25 ACRES/100 LINEAR FEET.

STRAW WATTLE
NTS CA-BC-008



- NOTES:
1. ACTUAL LAYOUT DETERMINED IN THE FIELD.
2. LOCATE A MIN. OF 50 FEET FROM STORM DRAINS, OPEN CHANNELS, WATER BODIES, AND JURISDICTIONAL WETLANDS.
3. SOIL BASE SHALL BE PREPARED FREE OF ROCKS OR OTHER DEBRIS THAT COULD CAUSE A TEAR IN THE LINER.
4. LOCATE WASHOUT AREA AT LEAST 50 FEET FROM SENSITIVE AREAS SUCH AS STORM DRAINS, OPEN DITCHES, OR WATER BODIES, INCLUDING ALL JURISDICTIONAL WETLANDS.
- NOTES:
1. INSTALL SLOPE PROTECTION ON ALL PROPOSED SLOPES 3H:1V OR STEEPER.

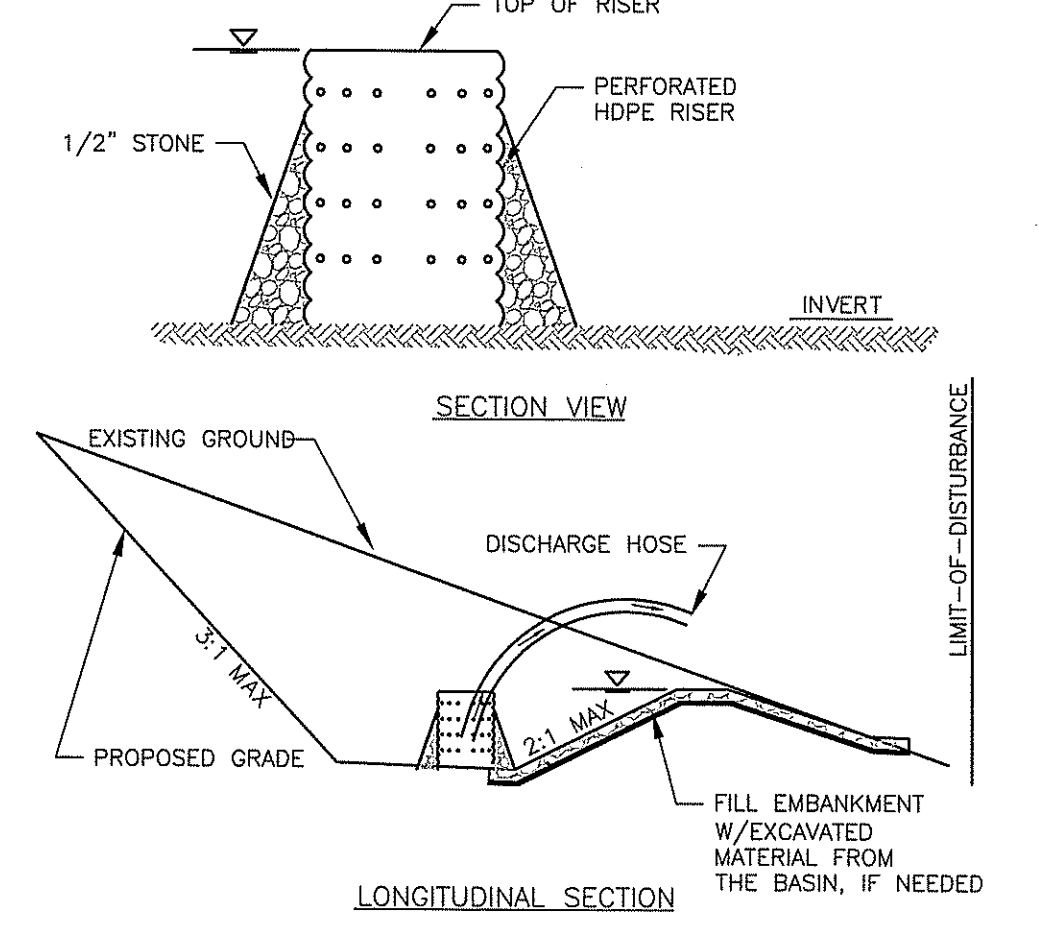
TEMPORARY CONCRETE WASHOUT FACILITY
NTS CA-BC-009

GUTTER EEL
NTS AFW

Temporary Sediment Trap Calculations

	TRAP #1	TRAP #2
Drainage Area, sq. ft. *	11,000	14,500
Drainage Area, acres *	0.25	0.33
Required Storage Volume, cu.yd. (drainage area, acres x 134 cu.yd./acre)	34	45
Proposed Temporary Sediment Trap Bottom Area, sq.ft.	237	287
Proposed Temporary Sediment Trap Top Area, sq.ft.	743	967
Proposed Temporary Sediment Trap Depth, ft.	2	2
Proposed Temporary Sediment Trap Storage Volume, cu.yd.	36	46

*NOTE: DRAINAGE AREA IS EQUAL TO TOTAL DISTURBED AREA



- NOTES:
1. TRAP CAPACITY: TEMPORARY SEDIMENT TRAP 134 CY/CONTRIBUTING ACRE AND 50% OF THIS VOLUME SHALL BE WET STORAGE.
2. TOTAL MIN. STORAGE VOLUME = 1" X CONTRIBUTING AREA.
3. SEDIMENT SHALL BE REMOVED WHEN THE BASIN IS 1/2 FULL AT A MINIMUM.
4. THE BASIN SHALL REMAIN IN PLACE UNTIL THE SITE HAS BEEN STABILIZED WITH BUILDINGS, PAVEMENT, OR ESTABLISHED VEGETATION, AS APPLICABLE.

TEMPORARY SEDIMENT TRAP
NTS AFW

NOT FOR CONSTRUCTION



REVISION DATE DESCRIPTION

REVISION	DATE	DESCRIPTION
1	03/28/2018	RIDEM COMMENTS

CLIENT: Providence Parks Department
25 DORRANCE STREET
PROVIDENCE, RI 02903

PROJECT: WOONASQUATUCKET ADVENTURE PARK
GLENBRIDGE AVENUE
PROVIDENCE, RHODE ISLAND

TITLE: DETAILS-2

ISSUED FOR: PERMITTING

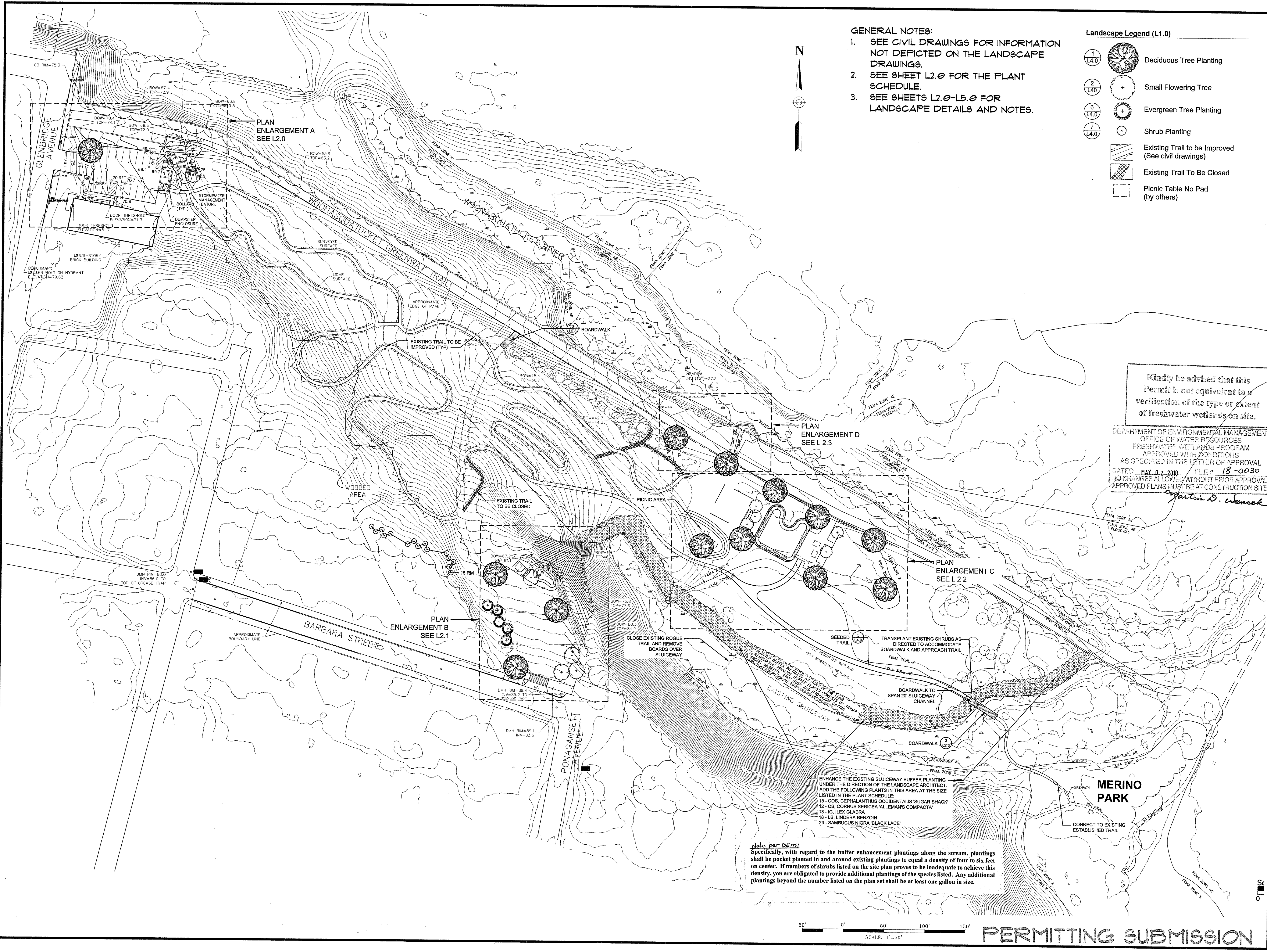
DATE: FEBRUARY 14, 2018

SCALE: N/A

DRAWN BY: MJW

CHECKED BY: GAA

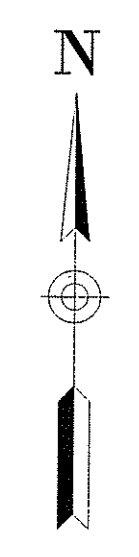
PROJECT NO: 3853170022



- GENERAL NOTES:**
1. SEE CIVIL DRAWINGS FOR INFORMATION NOT DEPICTED ON THE LANDSCAPE DRAWINGS.
 2. SEE SHEET L2.0 FOR THE PLANT SCHEDULE.
 3. SEE SHEETS L2.0-L5.0 FOR LANDSCAPE DETAILS AND NOTES.

Landscape Legend (L1.0)

- 1 (L4.0) Deciduous Tree Planting
- 2 (L4.0) Small Flowering Tree
- 6 (L4.0) Evergreen Tree Planting
- 7 (L4.0) Shrub Planting
- Existing Trail to be Improved (See civil drawings)
- Existing Trail To Be Closed
- Picnic Table No Pad (by others)



Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

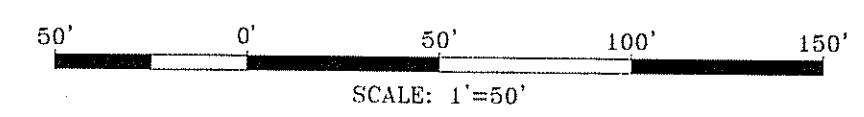
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED MAY 02 2018 FILE # 18-0030
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Jonathan D. Wenzel

ENHANCE THE EXISTING SLUCEWAY BUFFER PLANTING UNDER THE DIRECTION OF THE LANDSCAPE ARCHITECT. ADD THE FOLLOWING PLANTS IN THIS AREA AT THE SIZE LISTED IN THE PLANT SCHEDULE:

- 15 - COS. CEPHALANTHUS OCCIDENTALIS 'SUGAR SHACK'
- 12 - CS. CORNUS SERICEA 'ALLEMAN'S COMPACTA'
- 18 - IG. ILEX GLABRA
- 18 - LB. LINDERA BENZONIN
- 23 - SAMBUCUS NIGRA 'BLACK LACE'

Note per Dem:
 Specifically, with regard to the buffer enhancement plantings along the stream, plantings shall be pocket planted in and around existing plantings to equal a density of four to six feet on center. If numbers of shrubs listed on the site plan proves to be inadequate to achieve this density, you are obligated to provide additional plantings of the species listed. Any additional plantings beyond the number listed on the plan set shall be at least one gallon in size.



PERMITTING SUBMISSION

HALI BECKMAN, LTD.
 23 Brown Street, Suite 206, Wickford, RI 02882
 Tel. 401.294.1684 - www.halibeckman.com
 Estate Planning - Landscape Architecture

Ironwood
 Landscape Architecture - Planning
 Newmarket, NH | Portland, ME | 603.772.0990 | www.ironwood.com



**WOONASQUATUCKET
 ADVENTURE PARK
 PROVIDENCE, RHODE ISLAND**

SHEET TITLE
PARK LANDSCAPE PLAN

1	3/28/18	REVISED PER RIDER COMMENTS
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REV. NO. DATE REVISION DESCRIPTION

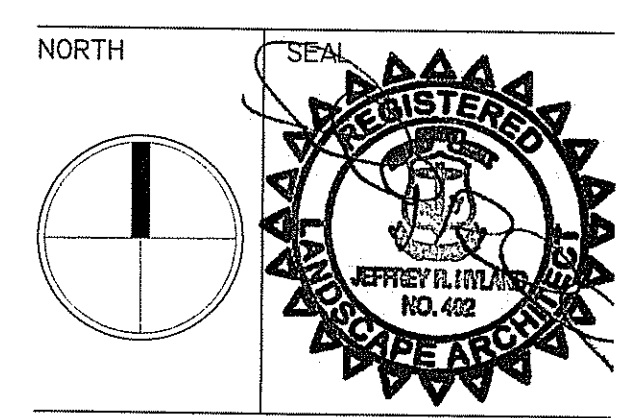
IRONWOOD PROJECT NO. 15072.1

SCALE AS SHOWN

DRAWN BY JM/JRH

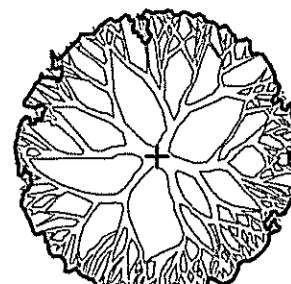
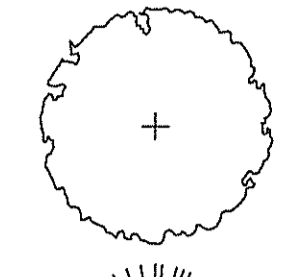
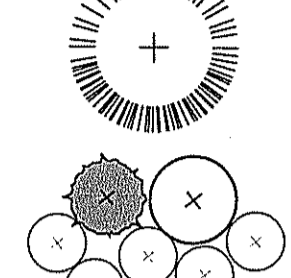
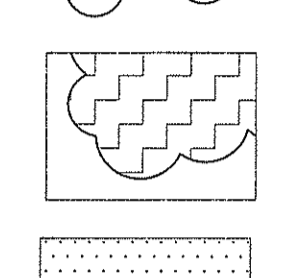
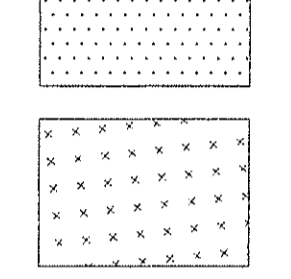
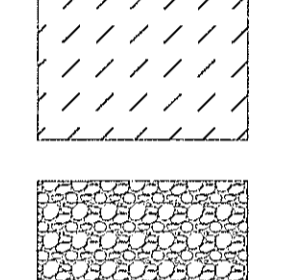
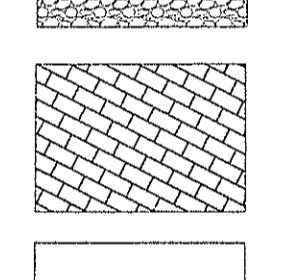
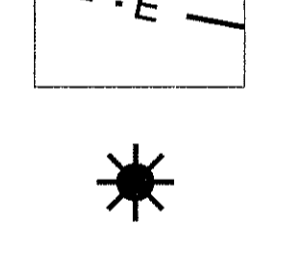
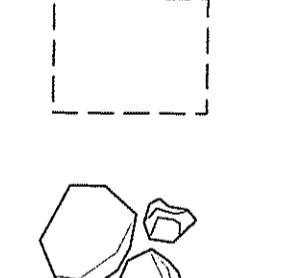
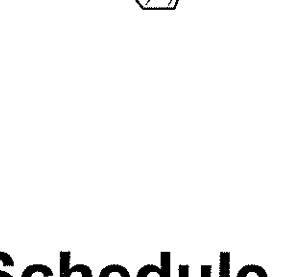
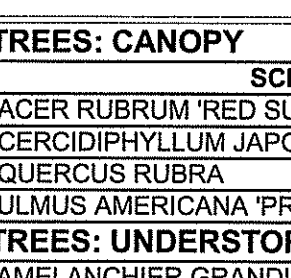
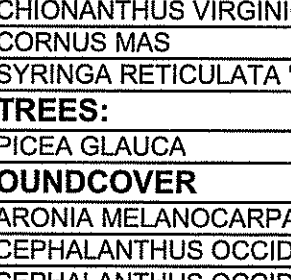
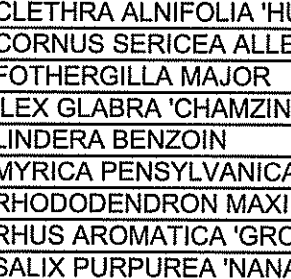
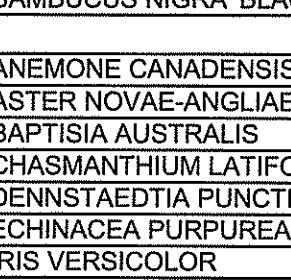
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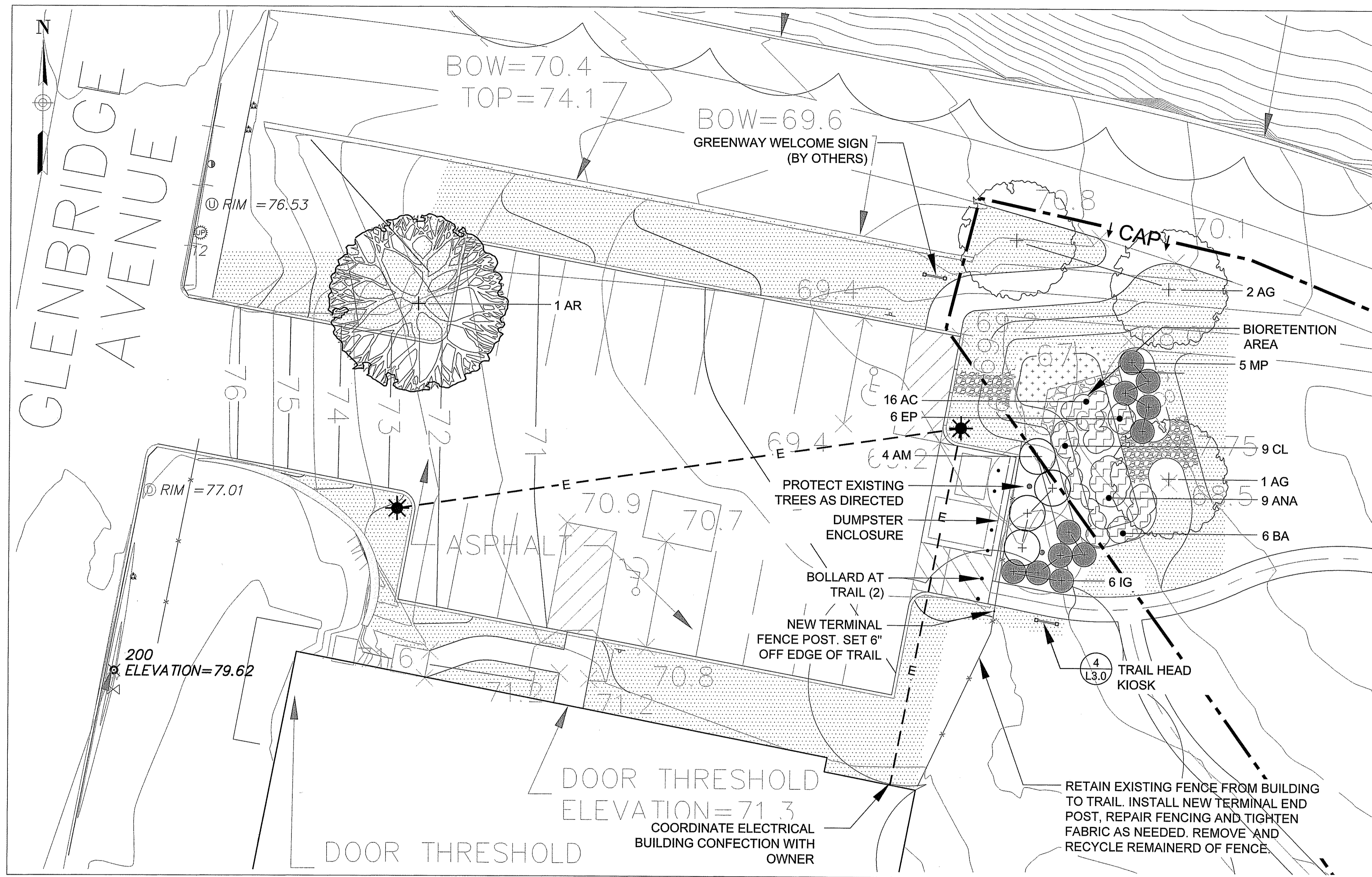
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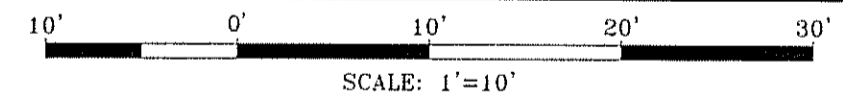
L1.0
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Landscape Legend

- 1 L4.0  Deciduous Tree Planting
- 2 L4.0  Small Flowering Tree
- 6 L4.0  Evergreen Tree Planting
- 7 L4.0  Shrub Planting
- 4 L4.0  Groundcover/Perennial Planting
- 5 L4.0  Lawn Seeding
- 8 L4.0  Bioretention Forebay Seeding
- 3 L4.0  Dry Meadow Seeding and Slope Stabilization
-  Riverstone Surface
- 4 L2.3  Concrete Paver
- 2 L2.0  Electric Trench
- 3 L2.0  Area Light with CCTV
-  Picnic Table No Pad (by others)
- 3 L3.0  Weather Boulder



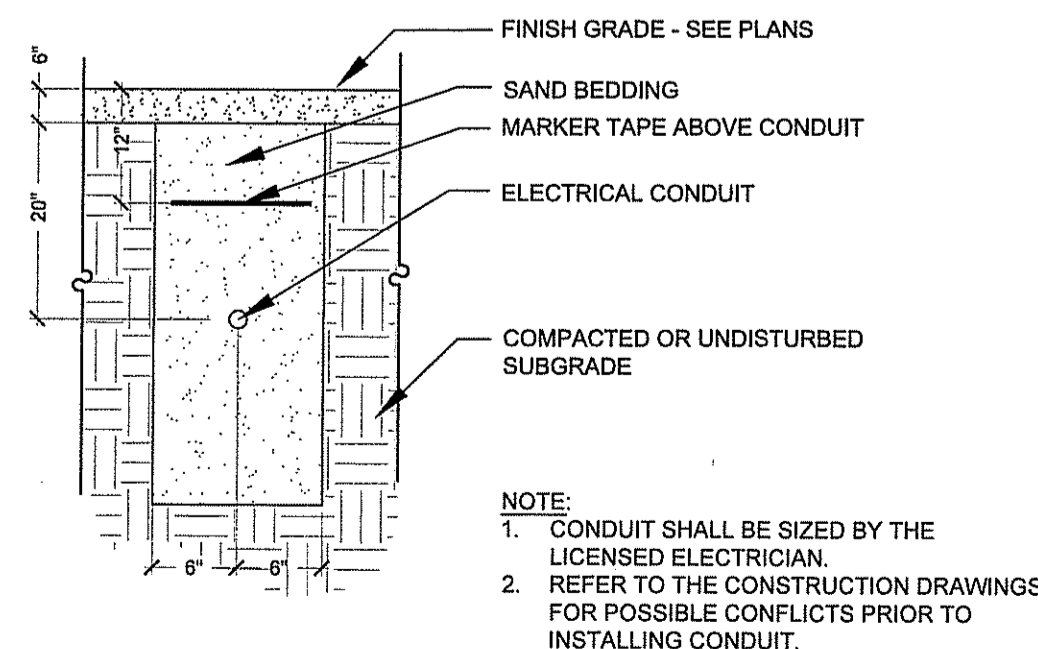
Enlargement A - Providence Turner's Parking Lot



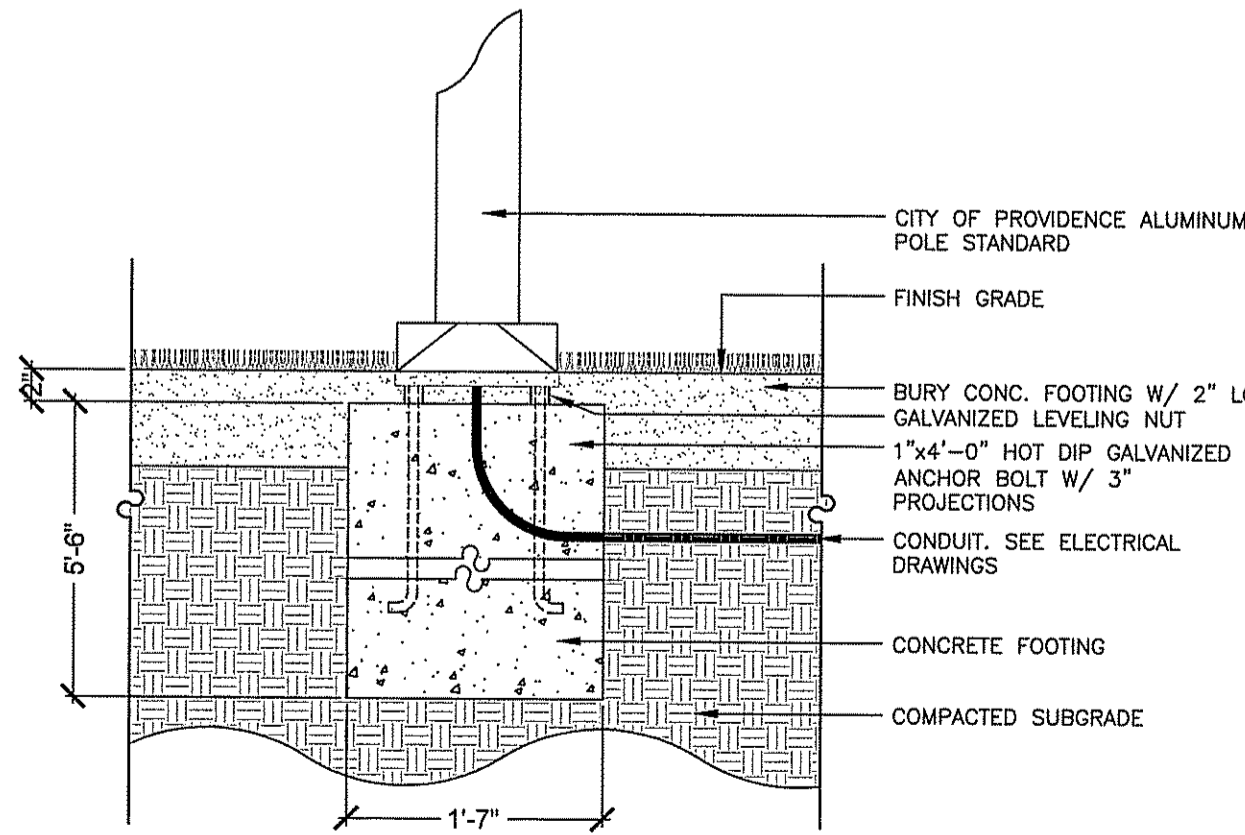
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Plant Schedule

DECIDUOUS TREES: CANOPY					
QTY.	ABRV.	SCIENTIFIC NAME	COMMON NAME	SIZE	REMARKS
1	AR	ACER RUBRUM 'RED SUNSET'	RED SUNSET RED MAPLE	3" C.	B&B
2	CJ	CERCIDIPHYLLUM JAPONICUM	KATSURATREE	8'-10' HT.	MULTI-STEM/B&B
4	QR	QUERCUS RUBRA	RED OAK	3" C.	B&B
5	UA	ULMUS AMERICANA 'PRINCETON'	PRINCETON AMERICAN ELM	3" C.	B&B
DECIDUOUS TREES: UNDERSTORY					
5	AG	AMELANCHIER GRANDIFLORA 'AUTUMN BRILLIANCE'	SERVICEBERRY	2.5' C.	B&B
3	CV	CHIONANTHUS VIRGINICUS	WHITE FRINGETREE	7'-8' HT.	MULTI-STEM/B&B
1	CM	CORNUS MAS	CORNELIANCHERRY DOGWOOD	7'-8' HT.	MULTI-STEM/B&B
3	SR	SYRINGA RETICULATA 'SNOWDANCE'	IVORY SILK JAPANESE LILAC TREE	2.5' C.	B&B
EVERGREEN TREES:					
5	PG	PICEA GLAUCA	WHITE SPRUCE	8'-10' HT.	B&B
SHRUBS / GROUNDCOVER					
4	AM	ARONIA MELANOCARPA 'AUTUMN MAGIC'	BLACK CHOKEBERRY	4' HT.	B&B
3	CO	CEPHALANTHUS OCCIDENTALIS	BUTTONBUSH	2' HT.	CONTAINER
15	COS	CEPHALANTHUS OCCIDENTALIS 'SUGAR SHACK'	SUGAR SHACK BUTTONBUSH	2' HT.	CONTAINER
11	CA	CLETHRA ALNIFOLIA 'HUMMINGBIRD'	HUMMINGBIRD SUMMERSWEET	3' HT.	CONTAINER
15	CS	CORNUS SERICEA ALLEMAN'S COMPACTA	DWARF RED TWIG DOGWOOD	3' HT.	CONTAINER
6	FM	FOTHERGILLA MAJOR	LARGE FOTHERGILLA	3' HT.	B&B
35	IG	ILEX GLABRA 'CHAMZIN NORDIC'	COMPACT NORDIC INKBERRY	3' HT.	B&B
18	LB	LINDERA BENZON	SPICEBUSH	3' HT.	CONTAINER
5	MP	MYRICA PENNSYLVANICA	NORTHERN BAYBERRY	2' HT.	B&B
15	RM	RHODODENDRON MAXIMUM	ROSEBAY RHODODENDRON	4' HT.	B&B
8	RA	RHUS AROMATICA 'GRO LOW'	GROUNDCOVER SUMAC	2' HT.	CONTAINER
5	SP	SALIX PURPUREA 'NANA'	DWARF ARCTIC WILLOW	2' HT.	CONTAINER
23	SN	SAMBUCUS NIGRA 'BLACK LACE'	BLACK LACE ELDERBERRY	2' HT.	CONTAINER
PERENNIALS					
24	AC	TANEMONE CANADENSIS	WINDFLOWER	#1	24" OC
17	ANA	ASTER NOVAE-ANGLIAE	NEW ENGLAND ASTER	#1	36" O.C.
6	BA	BAPTISIA AUSTRALIS	FALSE INDIGO	#3	36" OC
15	CL	CHASMANTHIUM LATIFOLIUM	NORTHERN SEA OATS	#1	36" O.C.
90	DP	DENNSTAEDTIA PUNCTILOBULA	HAY SCENTED FERN	#1	24" OC
6	EP	ECHINACEA PURPUREA 'GREEN JEWEL'	PURPLE CONEFLOWER	#1	18" OC
15	IV	IRIS VERSICOLOR	BLUE FLAG IRIS	#1	18" OC
20	PV	PANICUM VIRGATUM 'SHENANDOAH'	SWITCHGRASS	#2	36" OC



Electrical Trench
Not to Scale 3 L2.0



Light Pole Footing
Not to Scale 3 L2.0

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 02 2018 FILE # 18-0030
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

- GENERAL NOTES:**
- SEE CIVIL DRAWINGS FOR INFORMATION NOT DEPICTED ON THE LANDSCAPE DRAWINGS.
 - SEE SHEET L2.0 FOR THE PLANT SCHEDULE.
 - SEE SHEETS L2.0-L5.0 FOR LANDSCAPE DETAILS AND NOTES.

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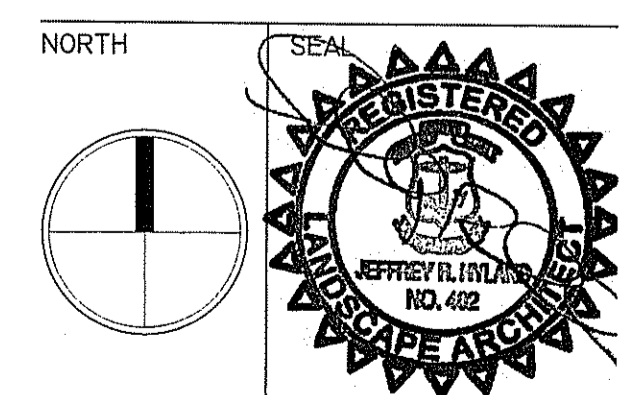
amec foster wheeler

**WOONASQUATUCKET
ADVENTURE PARK
PROVIDENCE, RHODE ISLAND**

SHEET TITLE
LANDSCAPE PLAN AND DETAILS

REV. NO.	REV. DATE	REVISION DESCRIPTION
1		

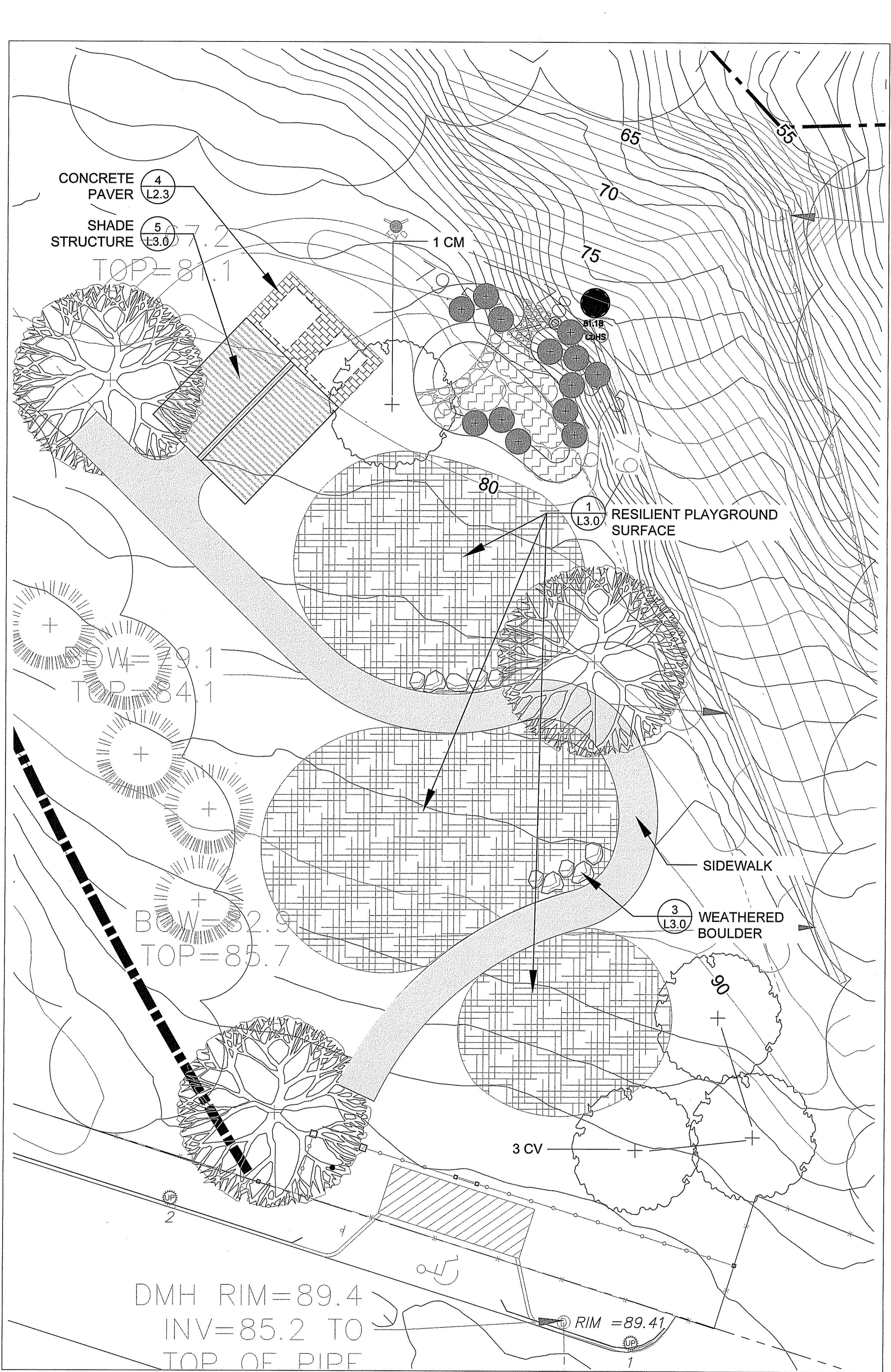
IRONWOOD PROJECT NO. 15072.1
SCALE AS SHOWN
DRAWN BY JM/JRH
CHECKED BY JRH
DATE 2/9/18



L2.0

PERMITTING SUBMISSION

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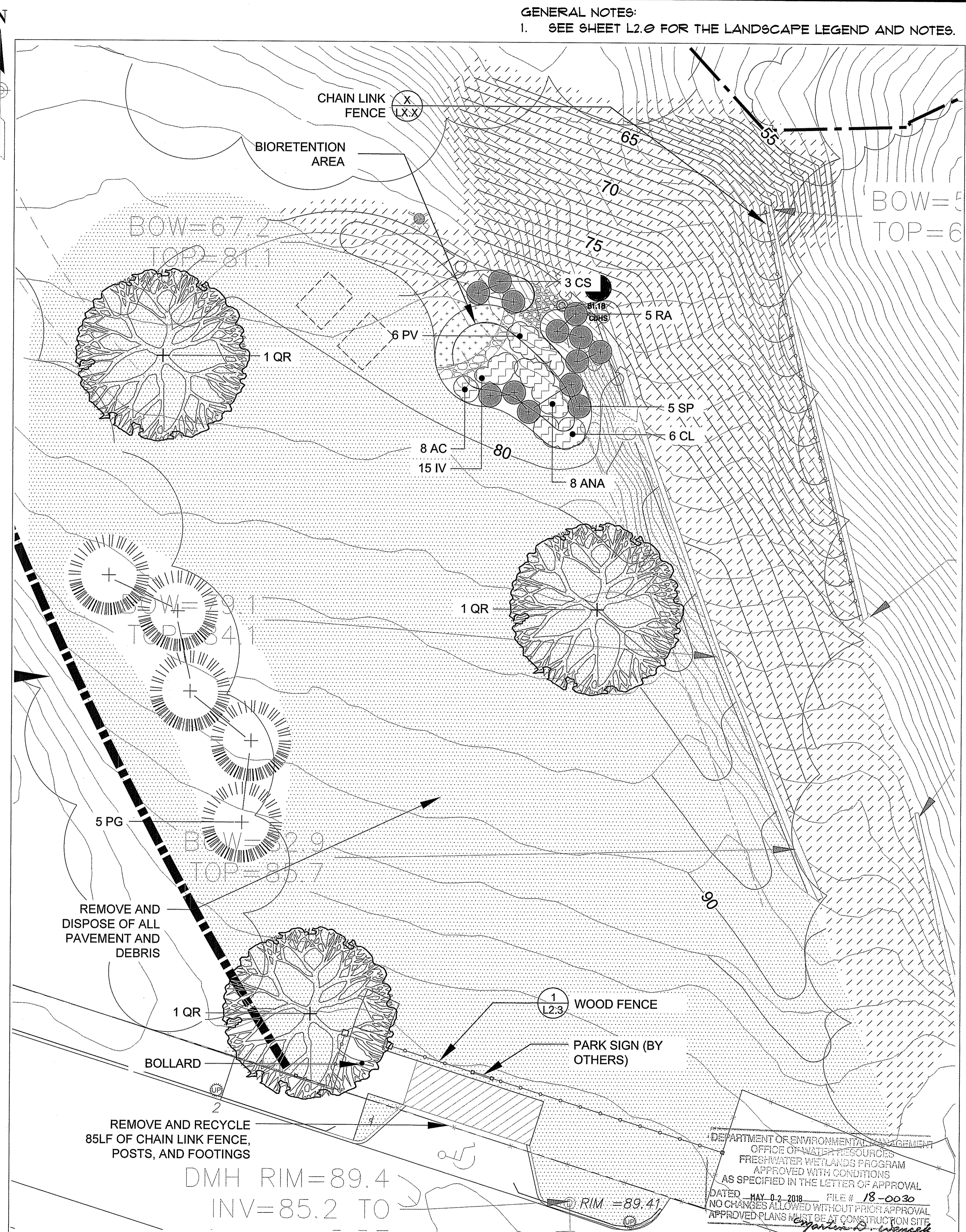


Enlargement B - Barbara Street Neighborhood Park - Phase II

SCALE: 1"=10'

©IRONWOOD 2018

1 L2.1



Enlargement B - Barbara Street Neighborhood Park - Phase I

SCALE: 1"=10'

©IRONWOOD 2018

2 L2.1

GENERAL NOTES:
1. SEE SHEET L2.0 FOR THE LANDSCAPE LEGEND AND NOTES.

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Jeffrey R. Ingle

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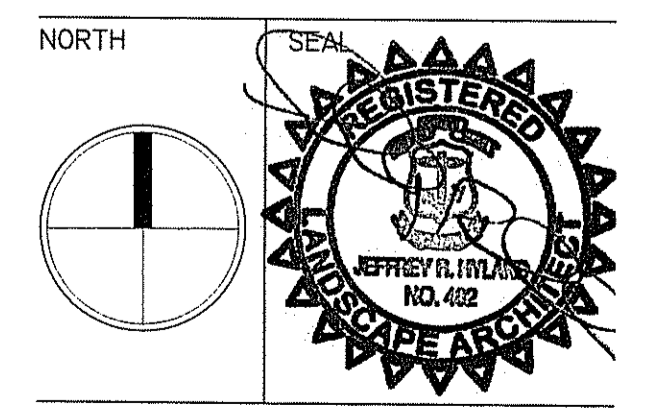
WOONASQUATUCKET
ADVENTURE PARK
PROVIDENCE, RHODE ISLAND

SHEET TITLE

LANDSCAPE PLAN

REV. NO.	REV. DATE	REVISION DESCRIPTION
1		

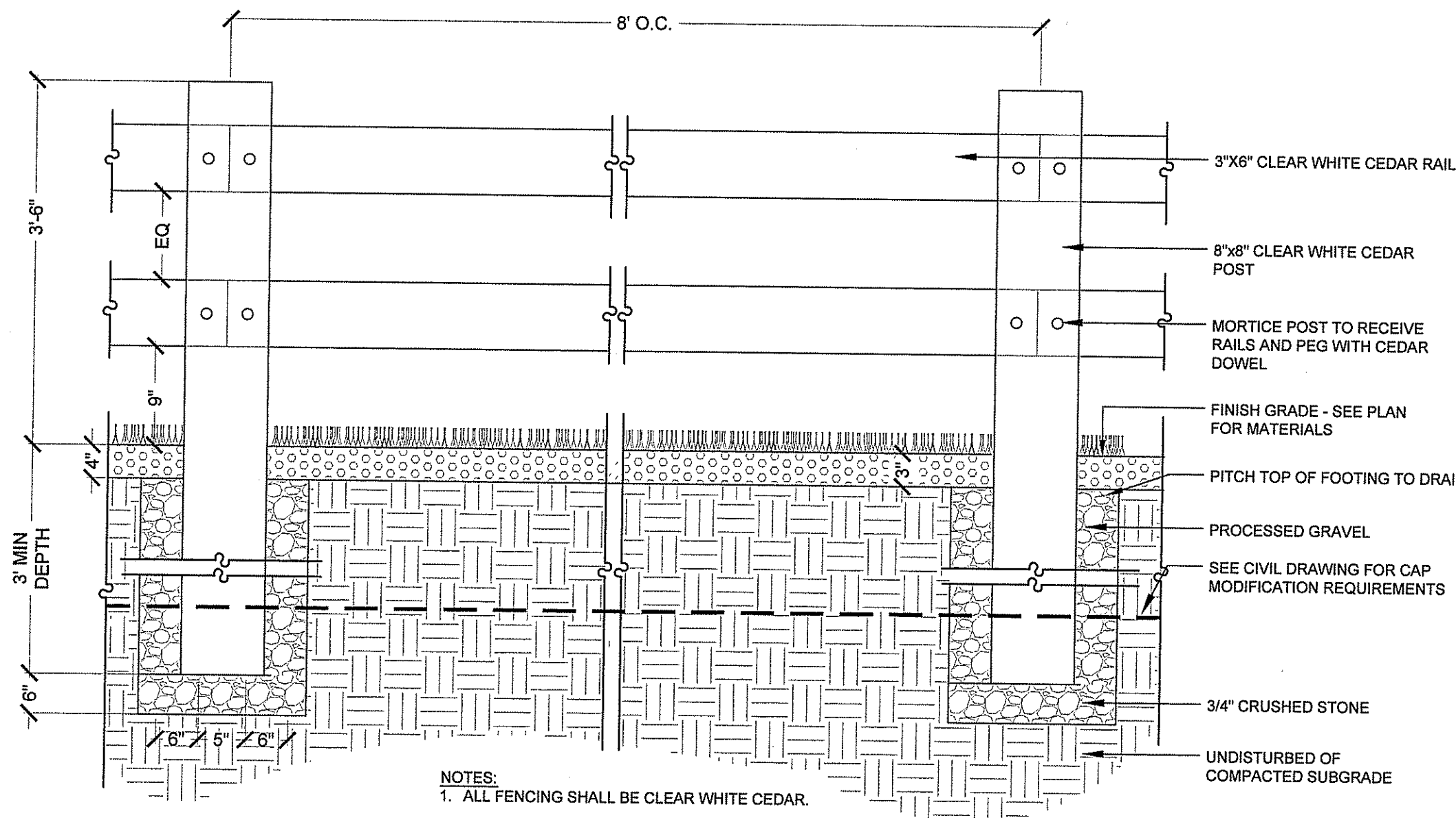
IRONWOOD PROJECT NO. 15072.1
SCALE AS SHOWN
DRAWN BY JM/JRH
CHECKED BY JRH
DATE 2/9/18



L2.1

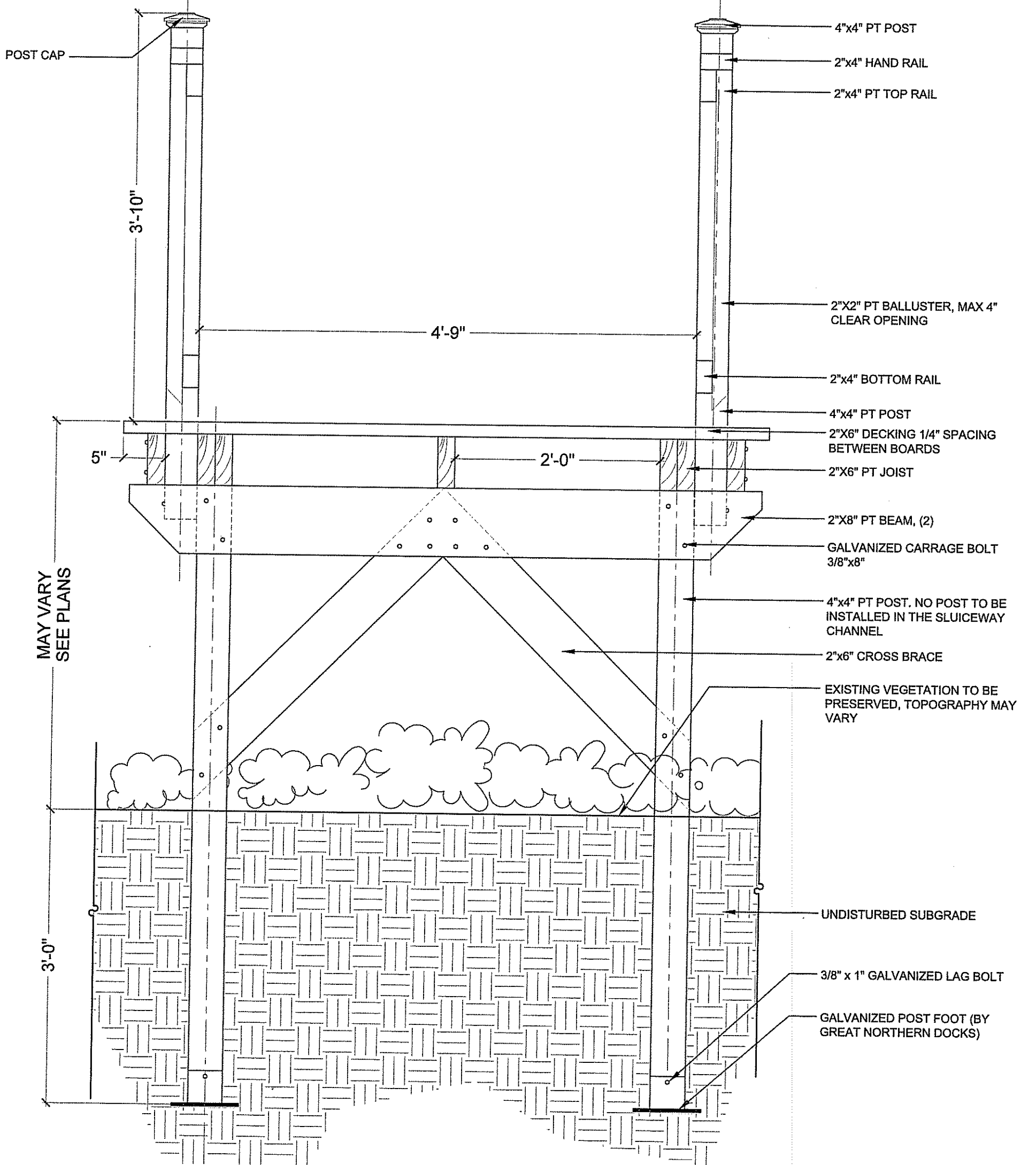
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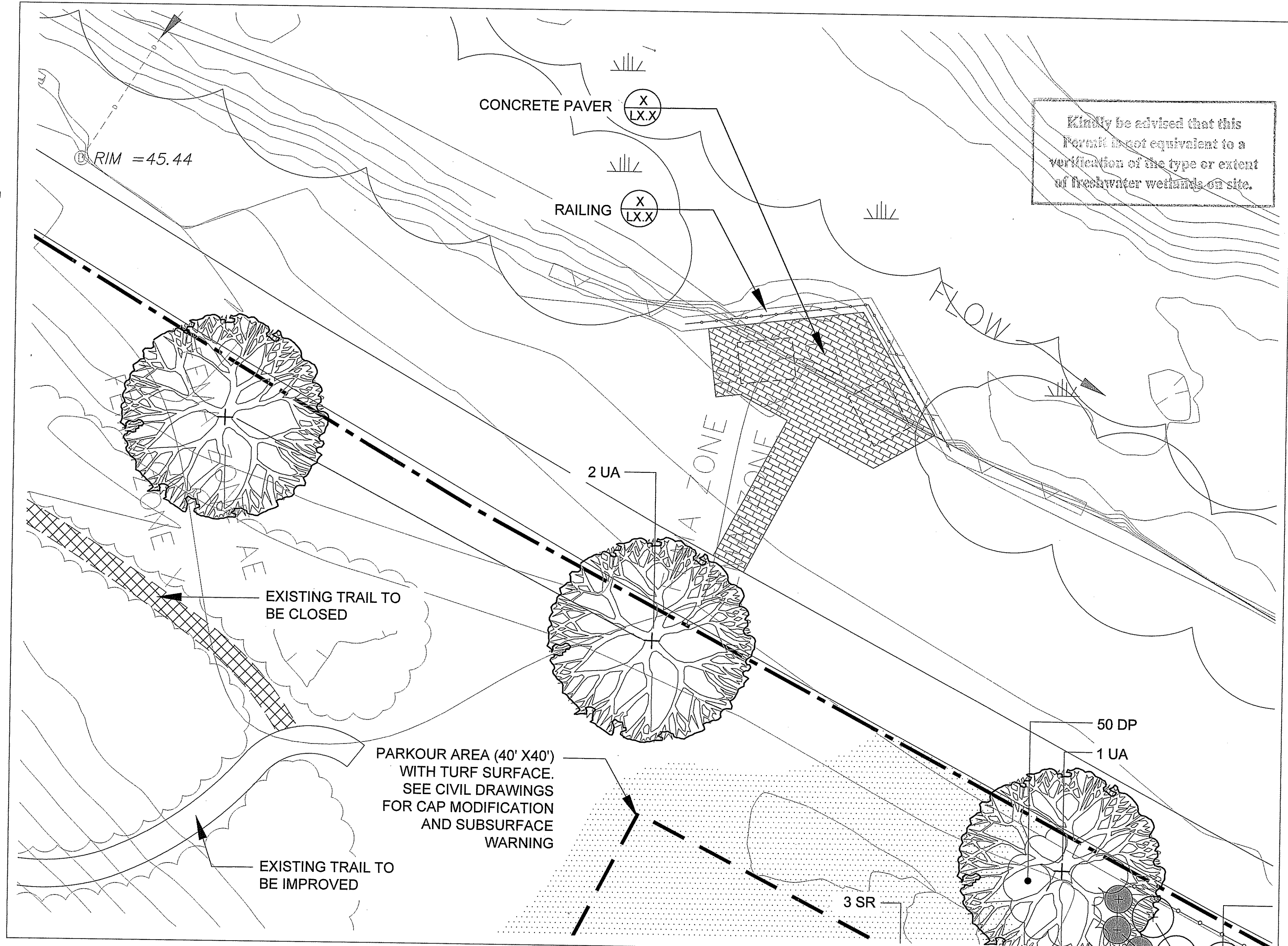
Wood Fence
Not to Scale

©IRONWOOD 2015 **L2.3**



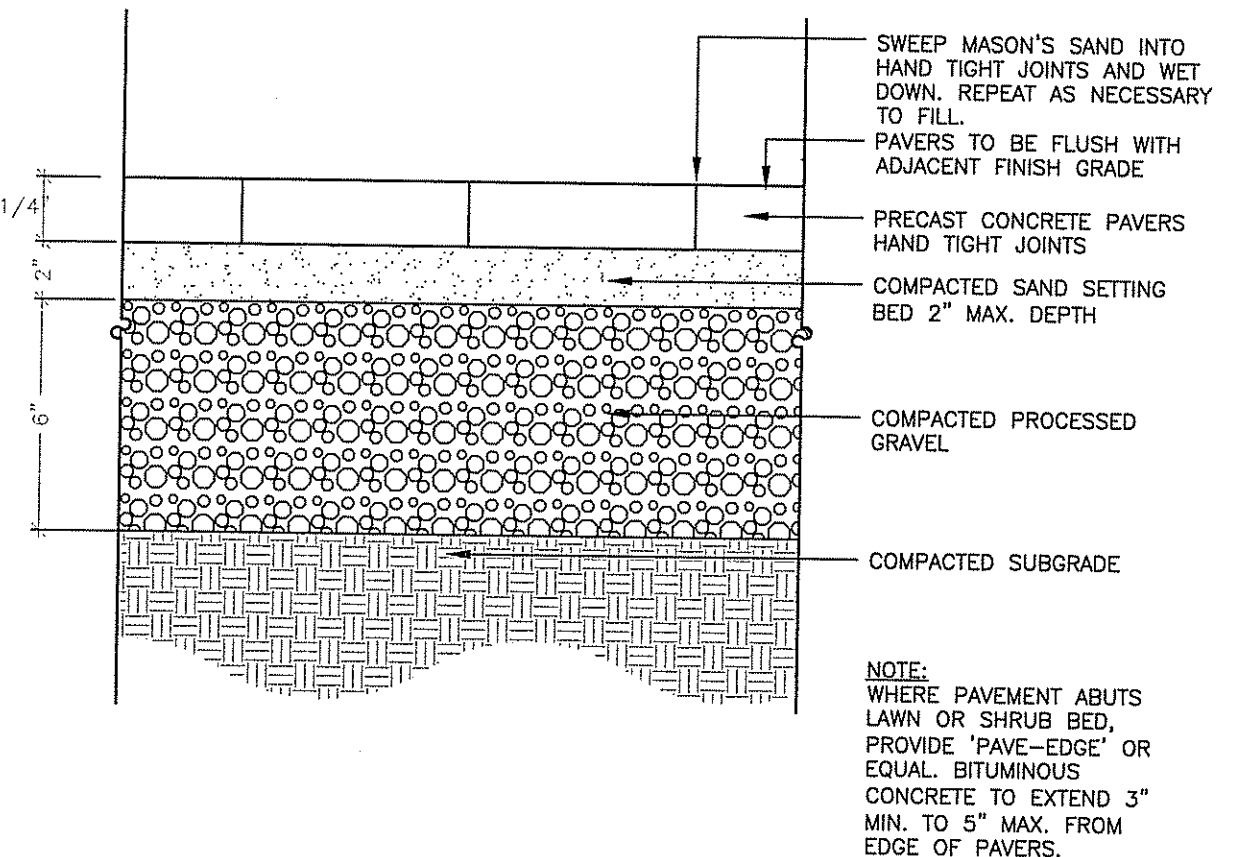
Boardwalk
Not to Scale

©IRONWOOD 2018 **L2.3**



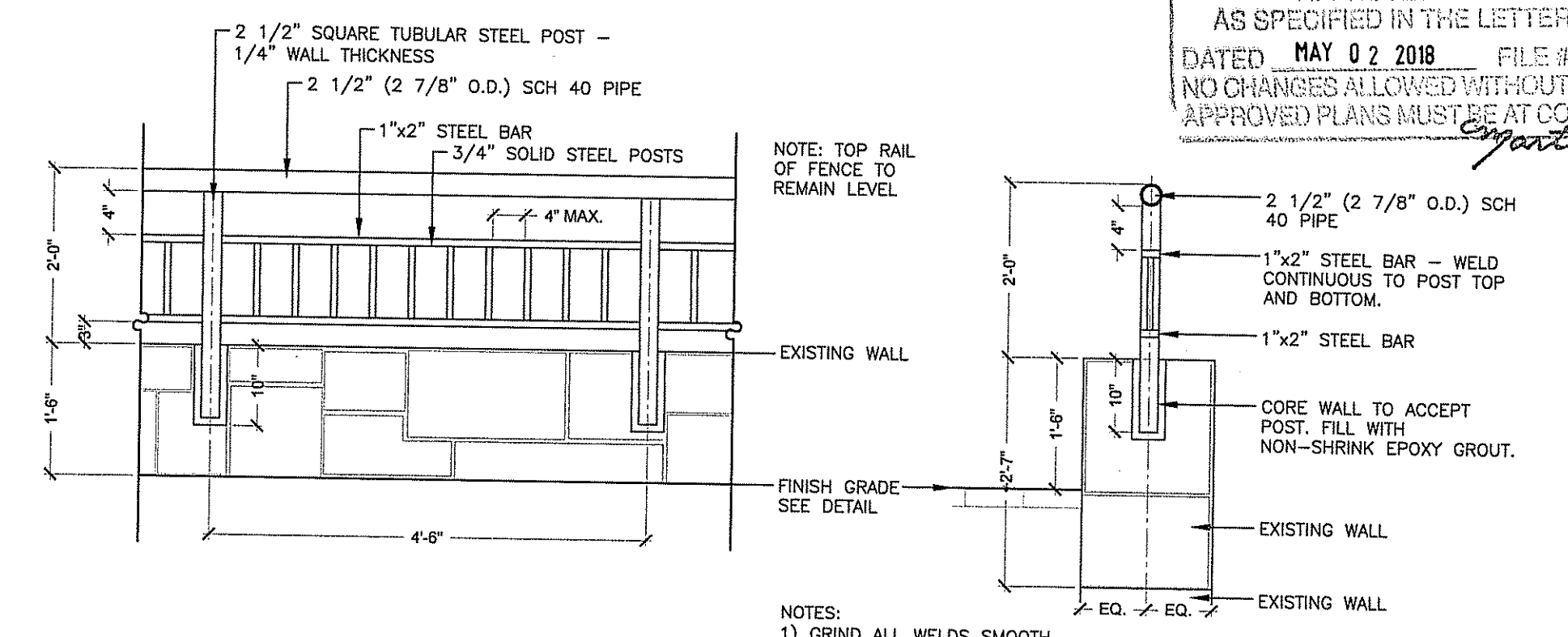
Enlargement D - River Overlook

SCALE: 1"=10'



Concrete Pavers
Not to Scale

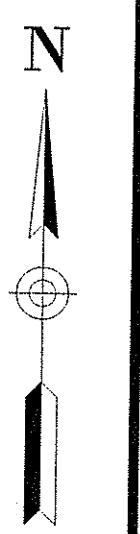
©IRONWOOD 2018 **L2.3**



Overlook Railing
Not to Scale

©IRONWOOD 2018 **L2.3**

GENERAL NOTES:
1. SEE SHEET L2.0 FOR THE LANDSCAPE LEGEND AND NOTES.



Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATERShed PROTECTION
FRESHWATER WETLANDS PROGRAM
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DATED **MAY 02 2018** FILE # **18-0030**
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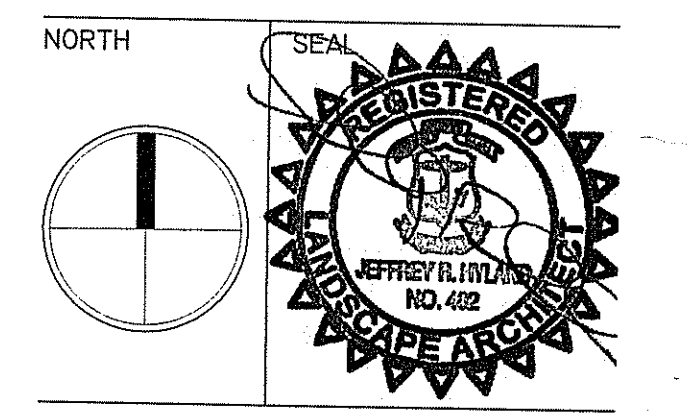


**WOONASQUATUCKET
ADVENTURE PARK**
PROVIDENCE, RHODE ISLAND

SHEET TITLE
**LANDSCAPE
PLAN AND
DETAILS**

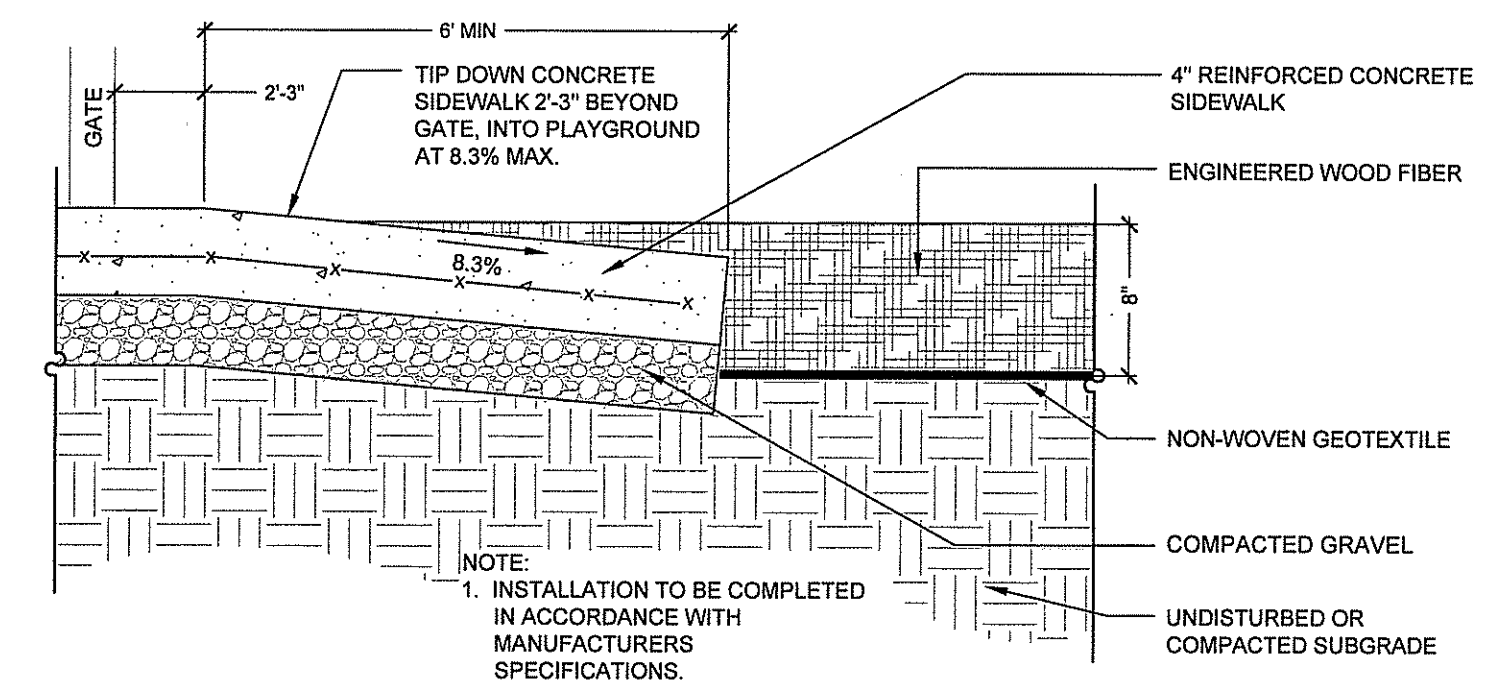
REV. NO.	REV. DATE	REVISION DESCRIPTION

IRONWOOD PROJECT NO. 15072.1
SCALE AS SHOWN
DRAWN BY JMI/JRH
CHECKED BY JRH
DATE 2/9/18



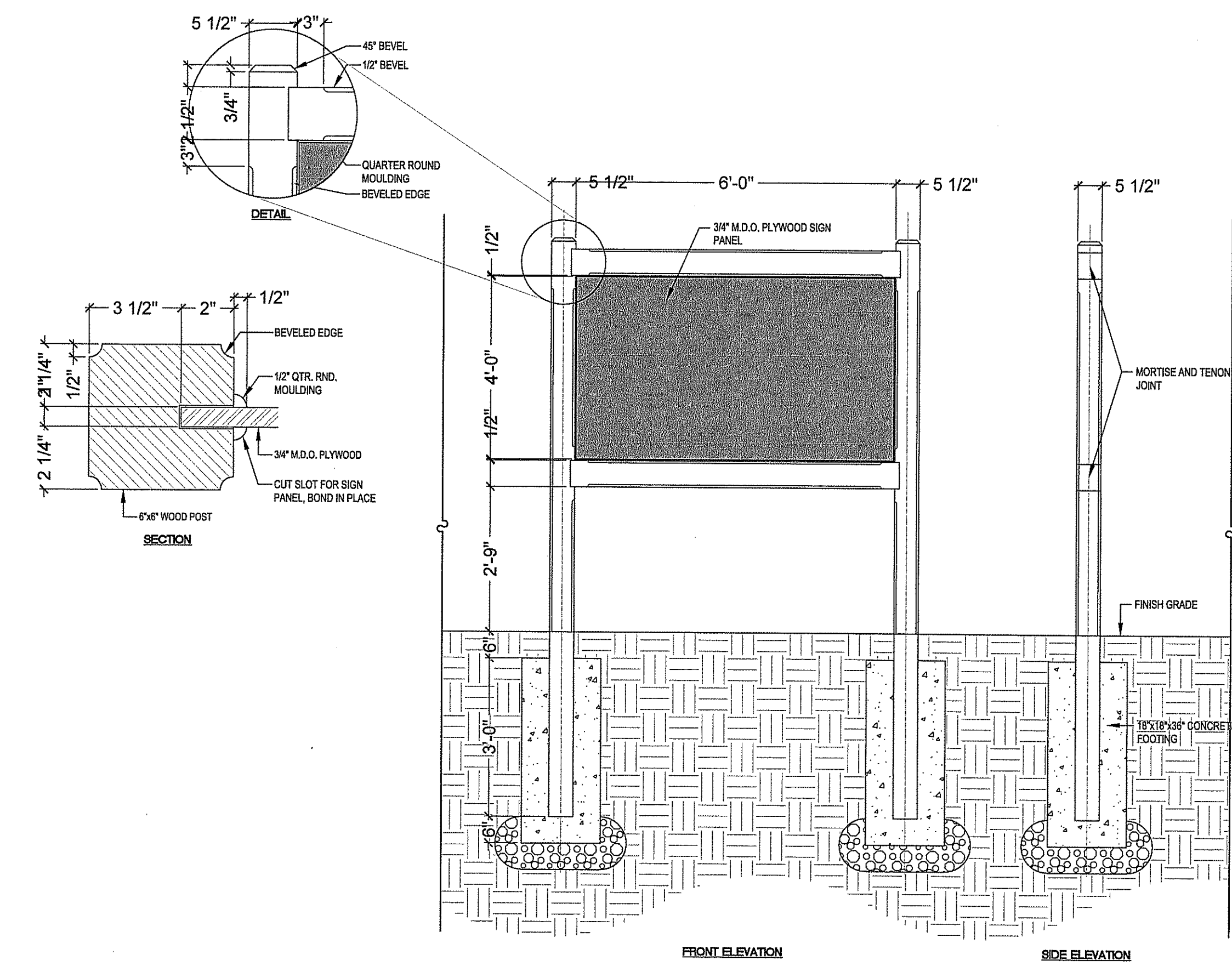
L2.3
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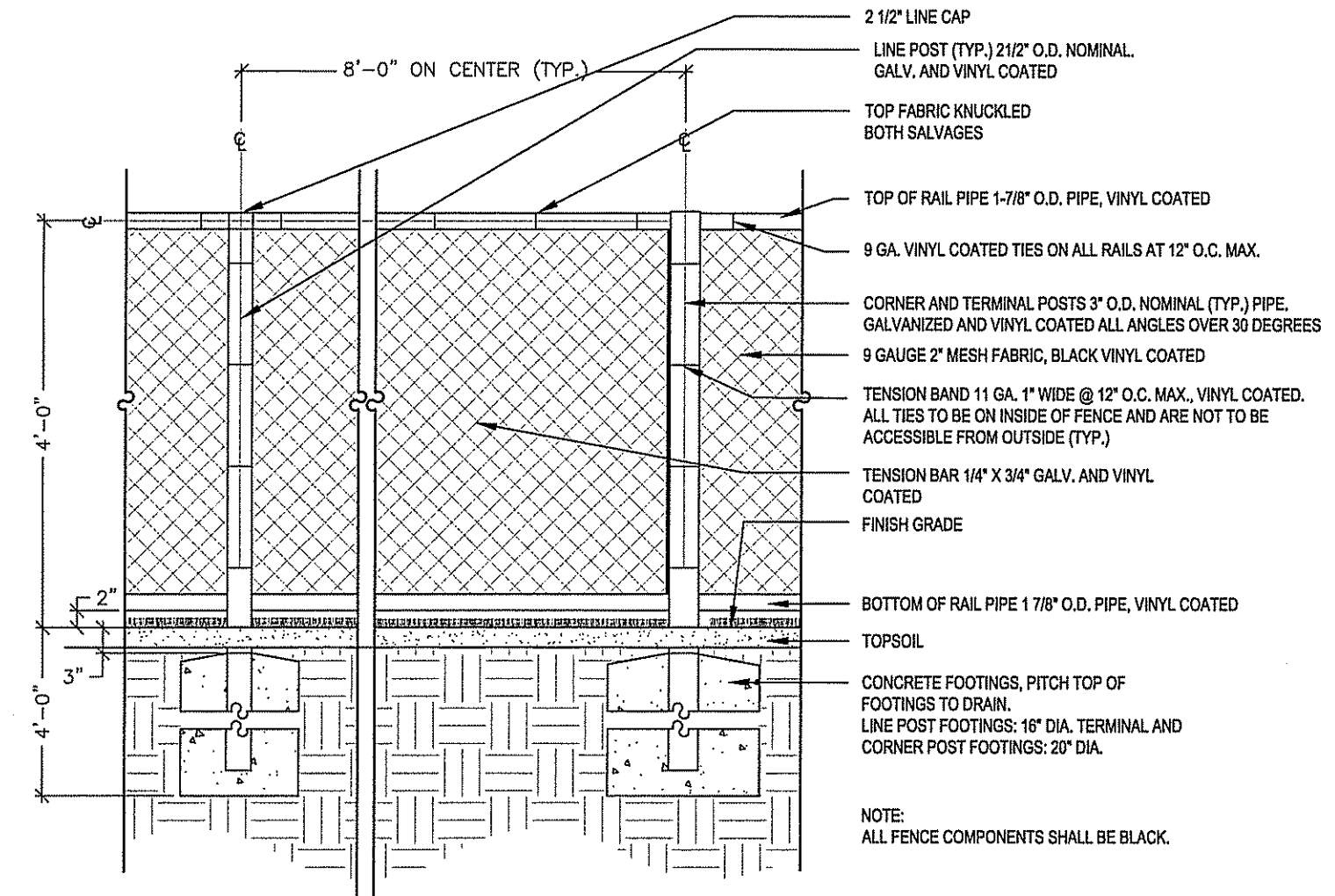
Resilient Playground Surface
Not to Scale

1
L3.0



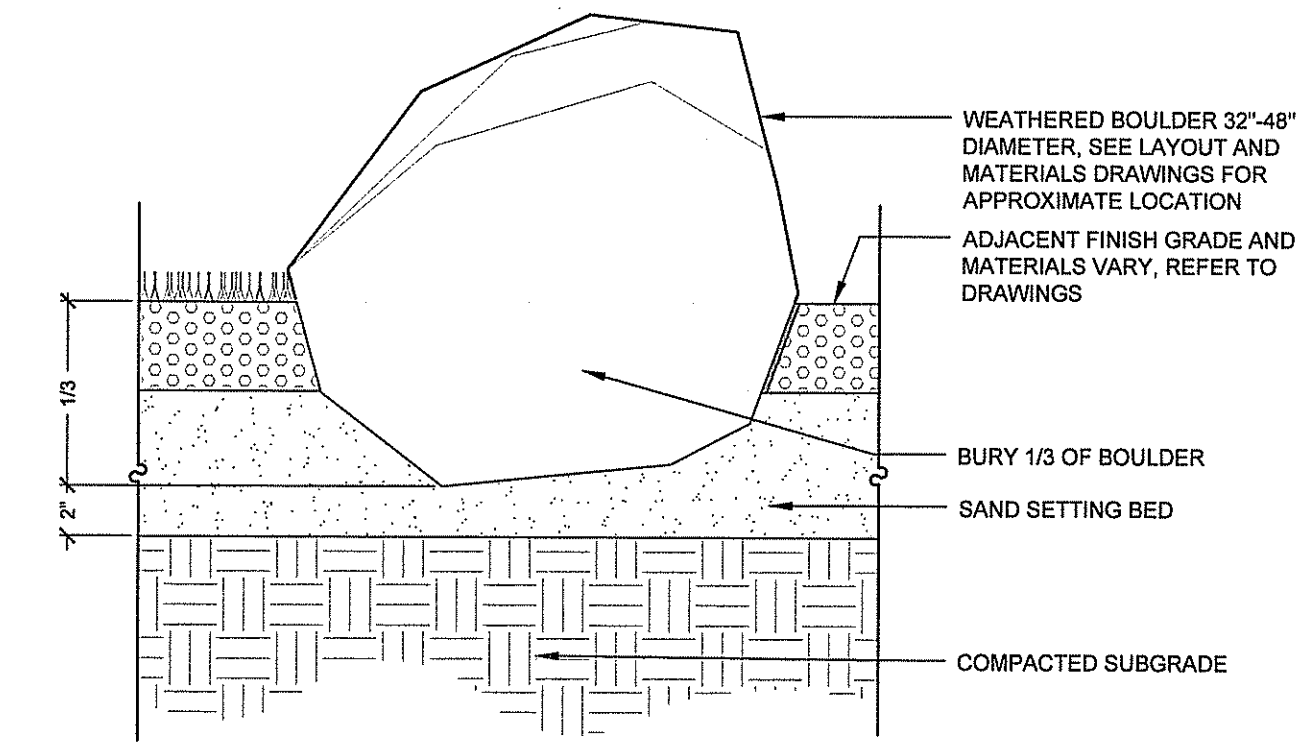
Trail Head Kiosk
Not to Scale

4
L3.0



Chain Link Fence
Not to Scale

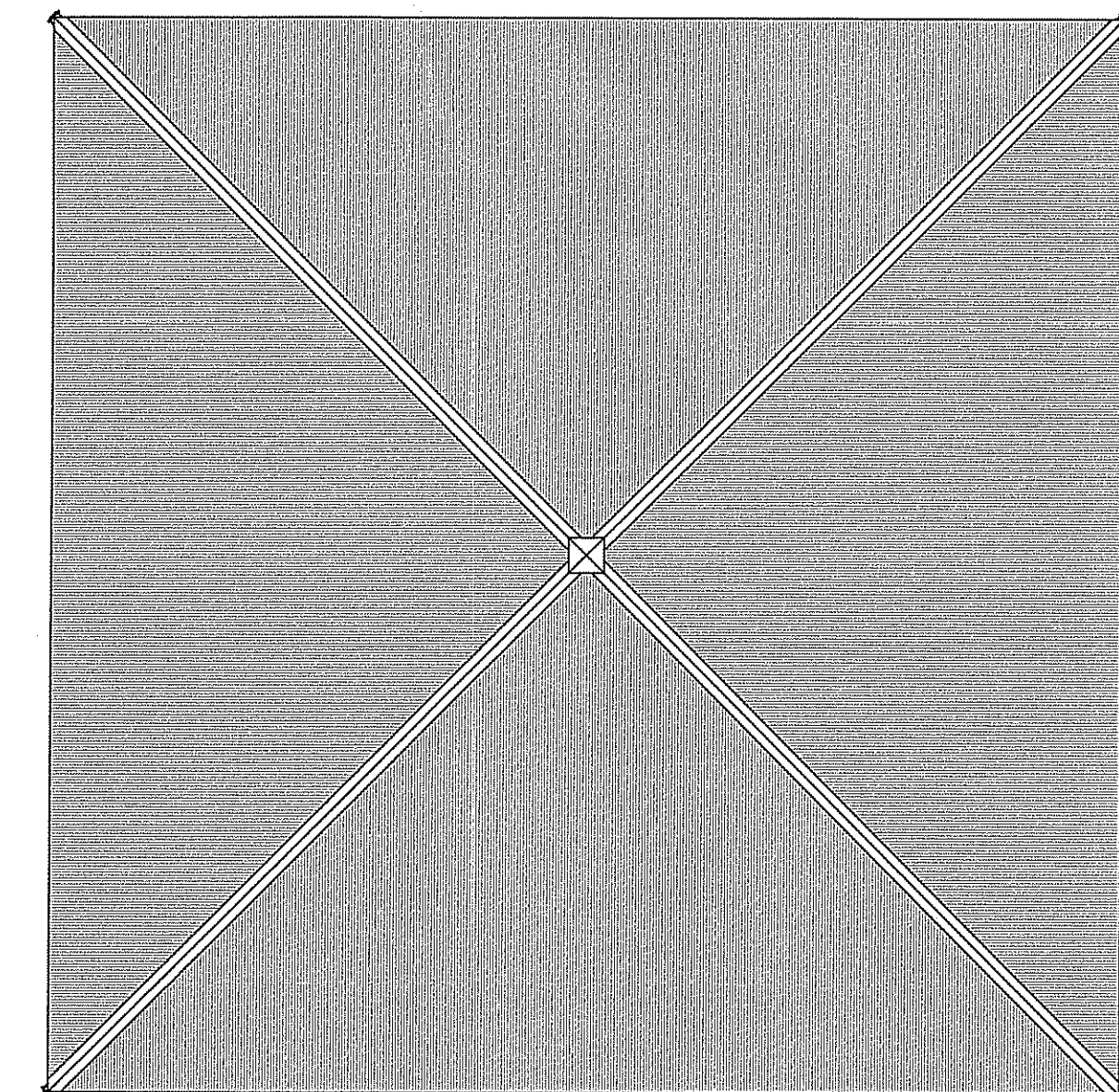
2
L3.0



Weathered Granite Boulder
Not to Scale

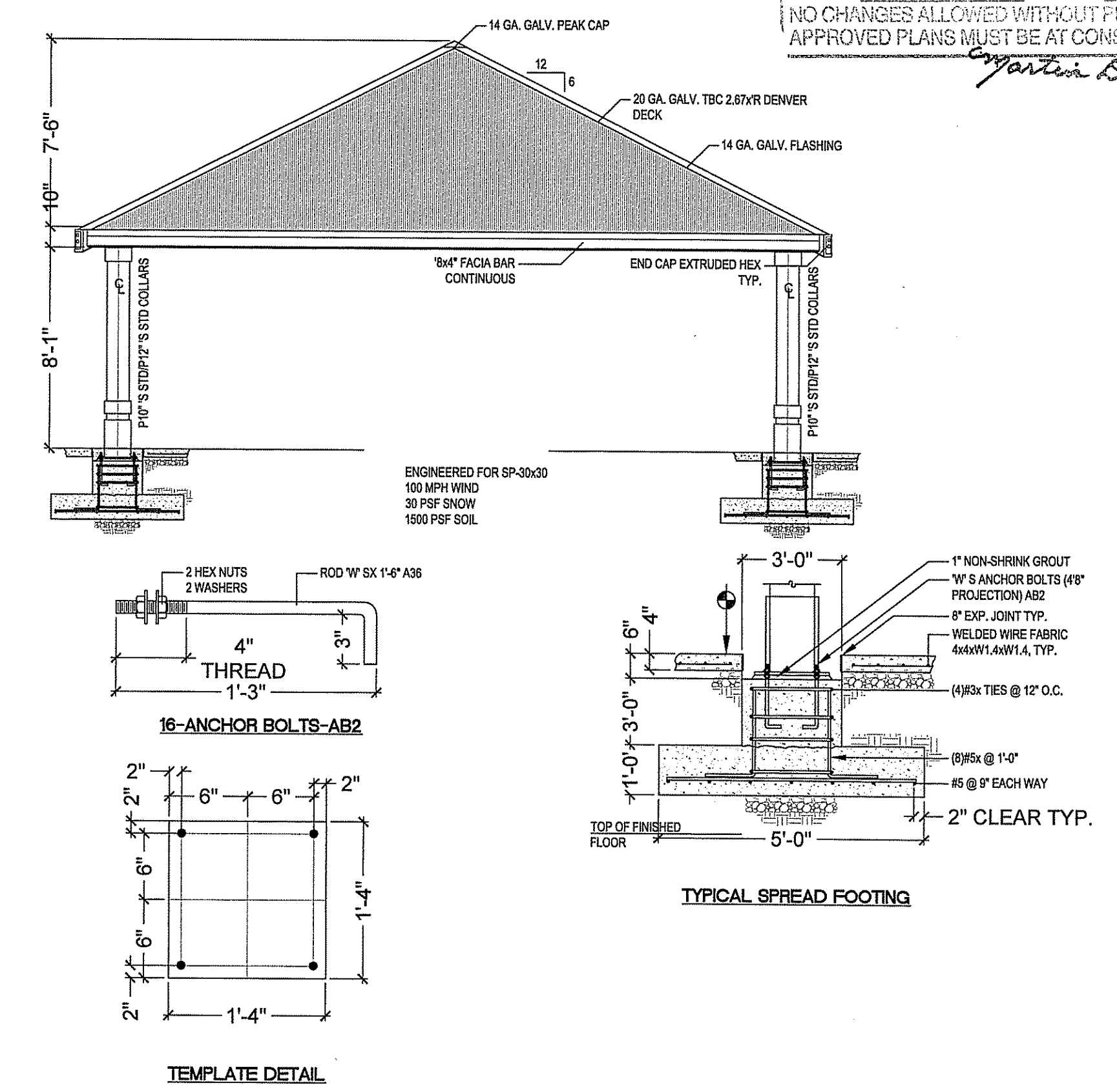
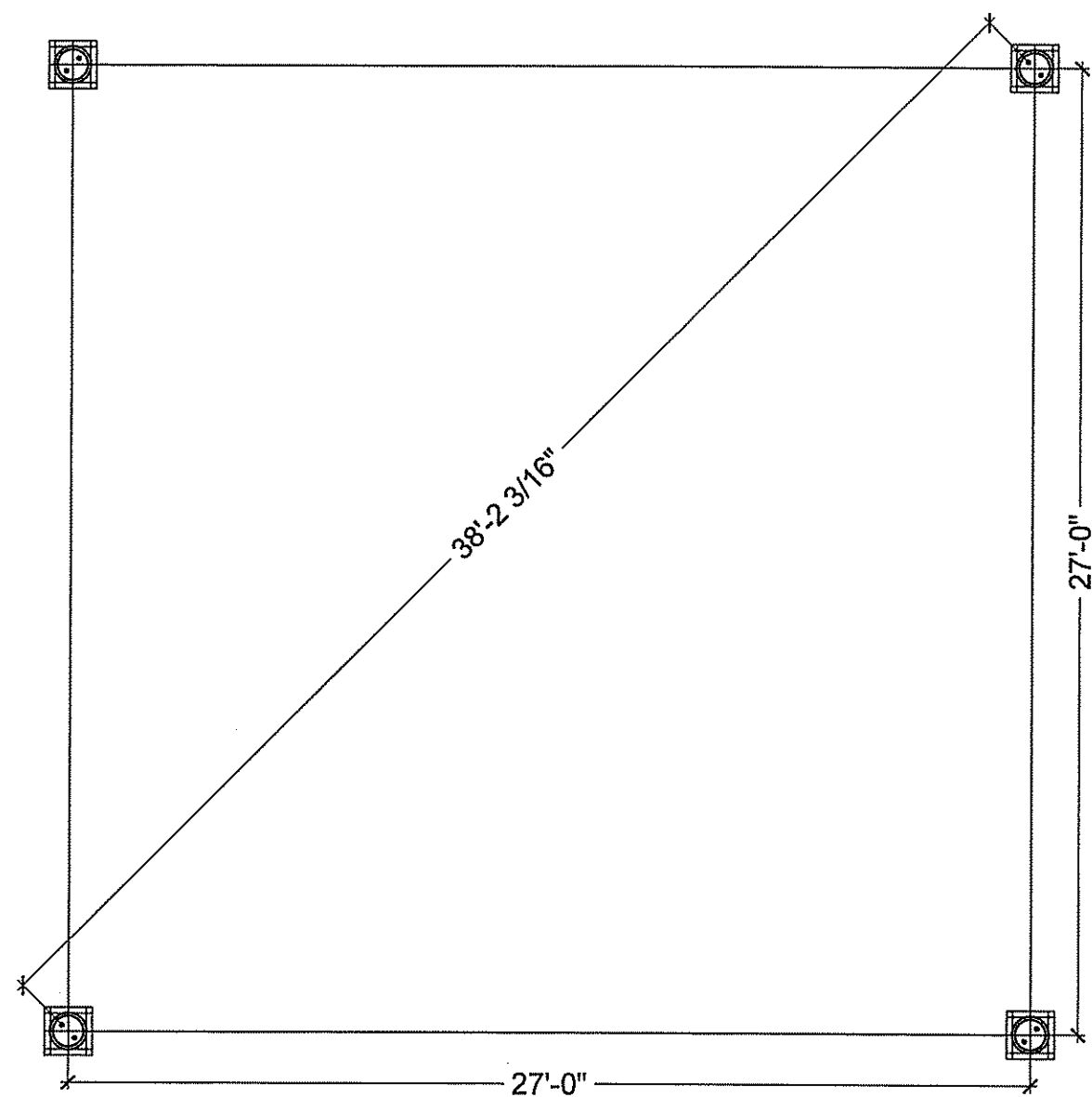
3
L3.0

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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Antonia D. Wencel



- GENERAL NOTES:**
1. STRUCTURAL STEEL SHALL BE DESIGNED, DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE AISC MANUAL OF STEEL CONSTRUCTION, 9TH EDITION.
 2. STEEL SHALL CONFORM TO ASTM A500 GRADE B FOR STRUCTURAL TUBING AND ASTM A53 GRADE B FOR PIPE. ALL OTHER STEEL SHALL BE ASTM A36 U.S.A.
 3. REINFORCING STEEL SHALL BE ASTM A616 GRADE 60, fy=60000.
 4. CONCRETE MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 3000 PSI, fc=3000.00
 5. ALL BOLTS SHALL BE 3/4 A325 U.S.A.
 6. 20 GA. TBC-287 X 7/8 DENVER ROOF DECK SHALL BE ATTACHED TO STRUCTURE, INCLUDING PURLINS, WITH HL1122P8 PAF OR #12-24 X 1 1/4\"/>
 - 7. FLASHING AND PEAK CAP SHALL BE ATTACHED TO ROOF DECK WITH #8 X 1/2\"/>
 - 8. ALL SHOP WELDS SHALL BE E7018 PER AWS D1.1-98.
 - 9. ALL FIELD WELDS SHALL BE E7018 OR NR211MP PER AWS D1.1-98.
 - 10. ALL BOLTED CONNECTIONS SHALL BE "SNUG TIGHT". (Snug tight is defined as the "fullest effort of a worker with an ordinary spud wrench"; see AISC Handbook #58H-1, pg. 59).
 - 11. TOP OF FOOTINGS TOLERANCE: +/-1/4\"/>
 - 12. FINISHED FLOOR SHALL HAVE A 1% SLOPE AWAY FROM CENTERLINE OF BUILDING IN ALL DIRECTIONS.
 - 13. PRIME PAINT SHALL BE 1 SCC ESSEX, 2 MILS. PER SSPC 209.
 - 14. FINISH PAINT SHALL BE VOC COMPLIANT CORETHANE II ALIPHATIC ACRYLIC POLYURETHANE OR APPROVED EQUAL. PAINT ALL FOOTINGS RED AND ALL OTHER SURFACES ESSEX GREEN.

Picnic Pavilion
Not to Scale



TEMPLATE DETAIL

5
L3.0

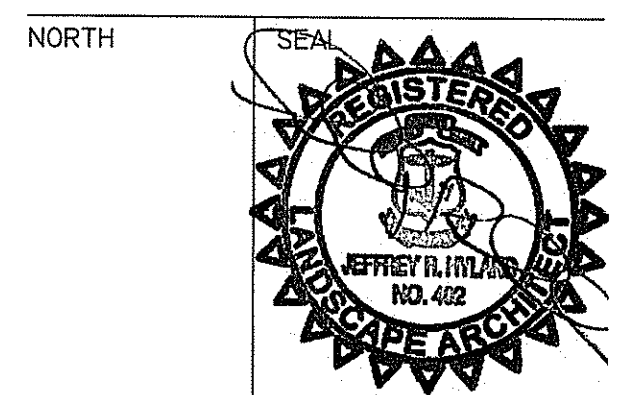
PERMITTING SUBMISSION

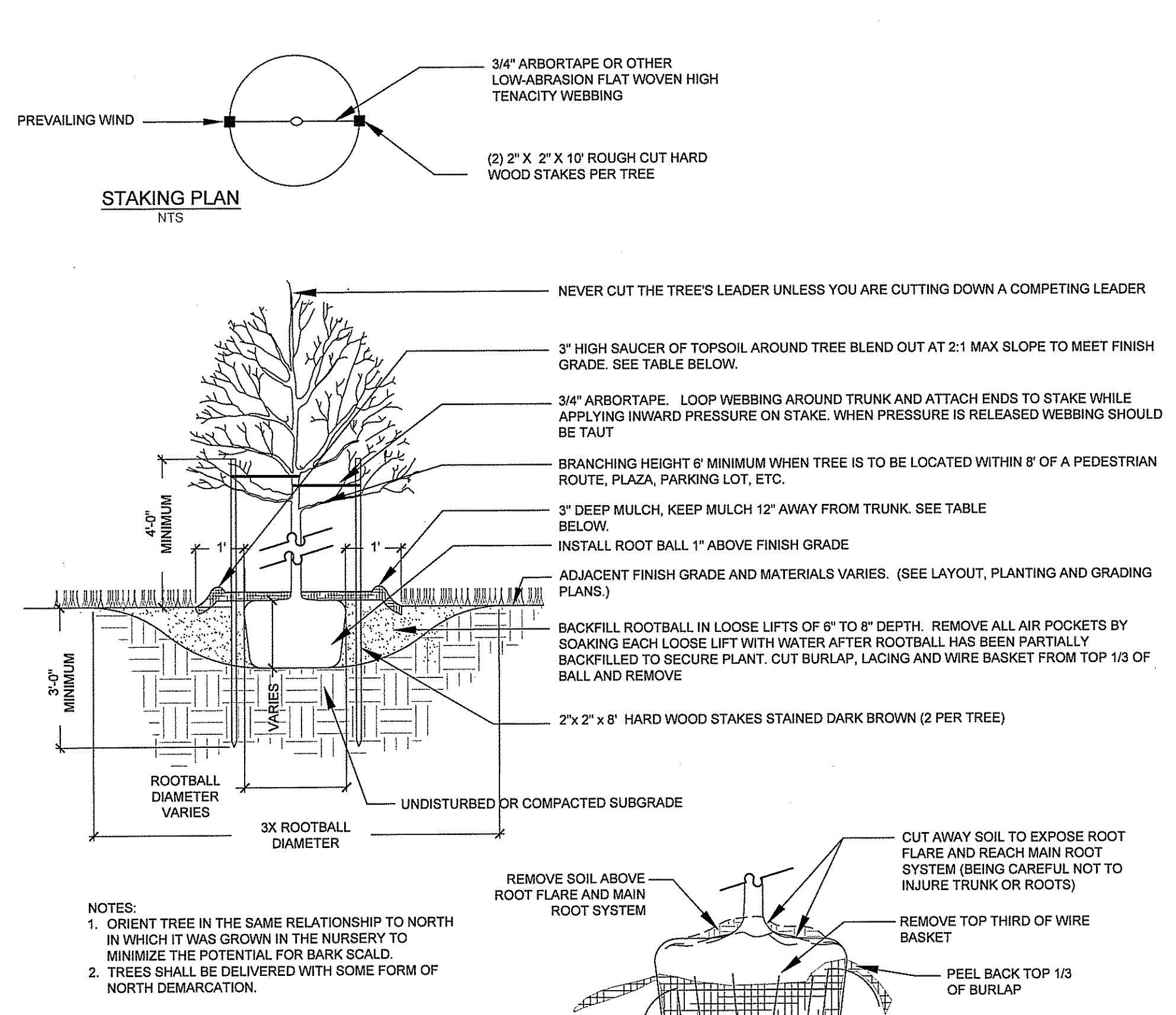
SHEET TITLE

**LANDSCAPE
DETAILS**

REV. NO.	REV. DATE	REVISION DESCRIPTION

IRONWOOD PROJECT NO.	15072.1
SCALE	AS NOTED
DRAWN BY	JM/JRH
CHECKED BY	JRH
DATE	2/9/18

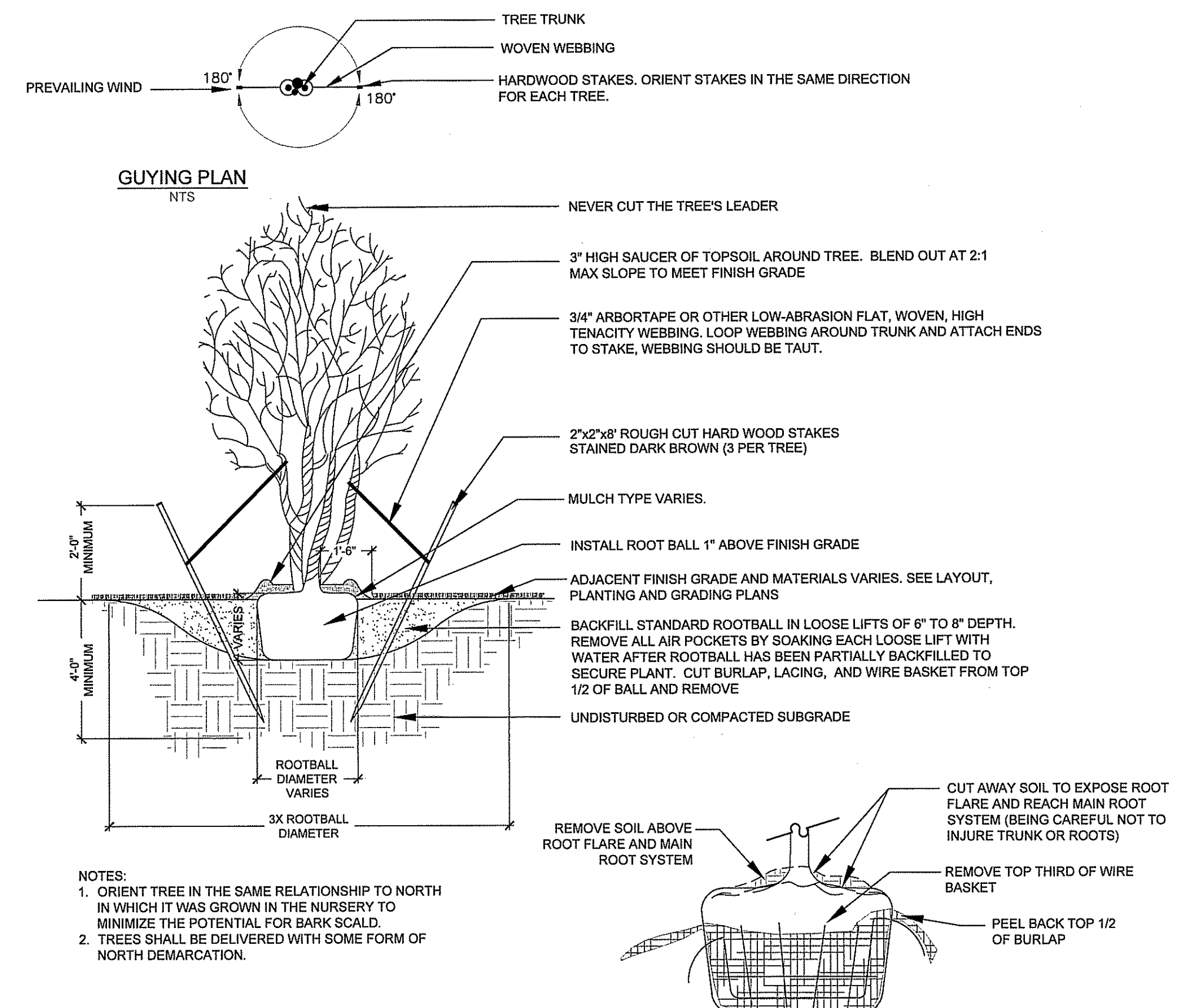




Deciduous Tree Planting

Not to Scale

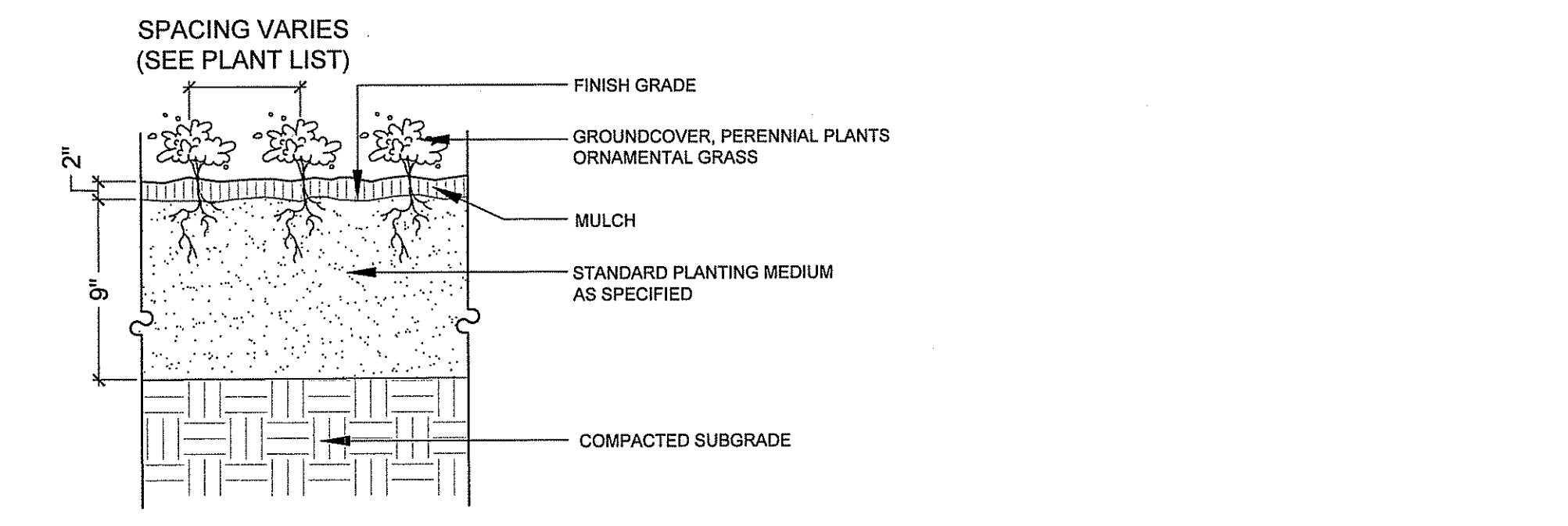
©IRONWOOD 2018 **1** L4.0



Multi-Stemmed Deciduous Tree Planting

Not to Scale

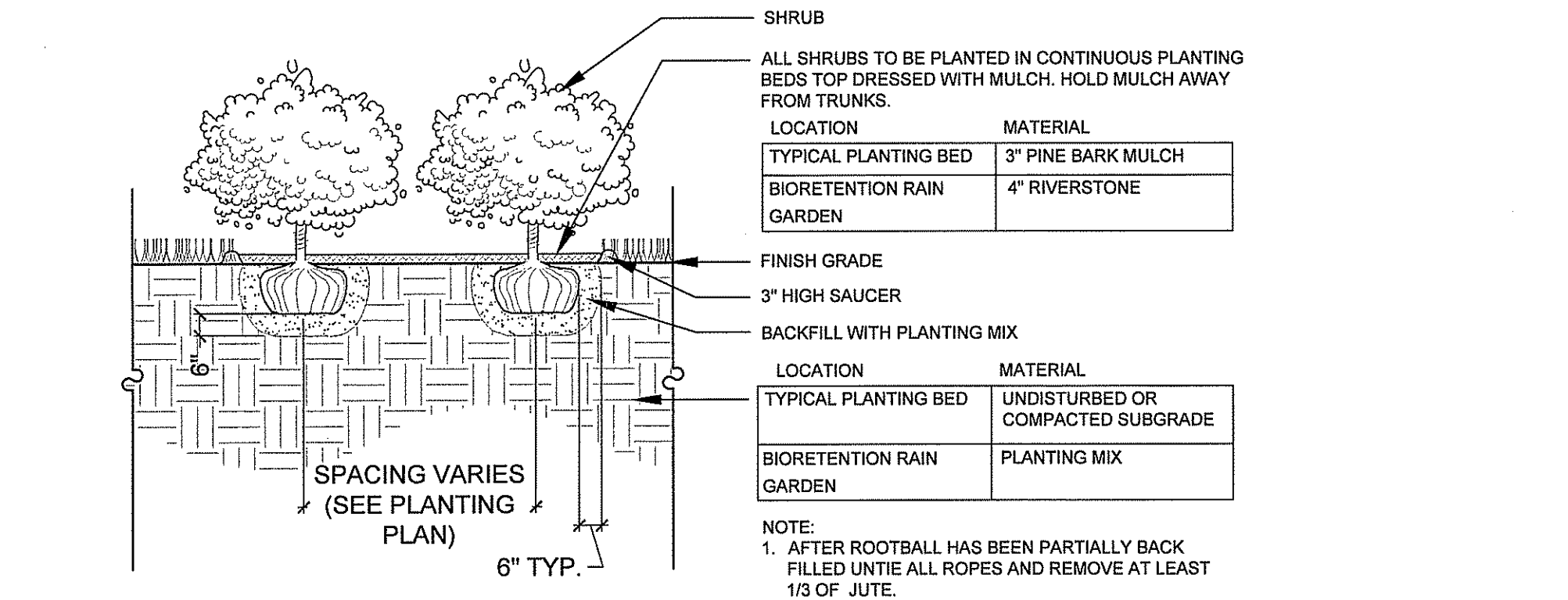
©IRONWOOD 2018 **2** L4.0



Groundcover / Perennial Planting

Not to Scale

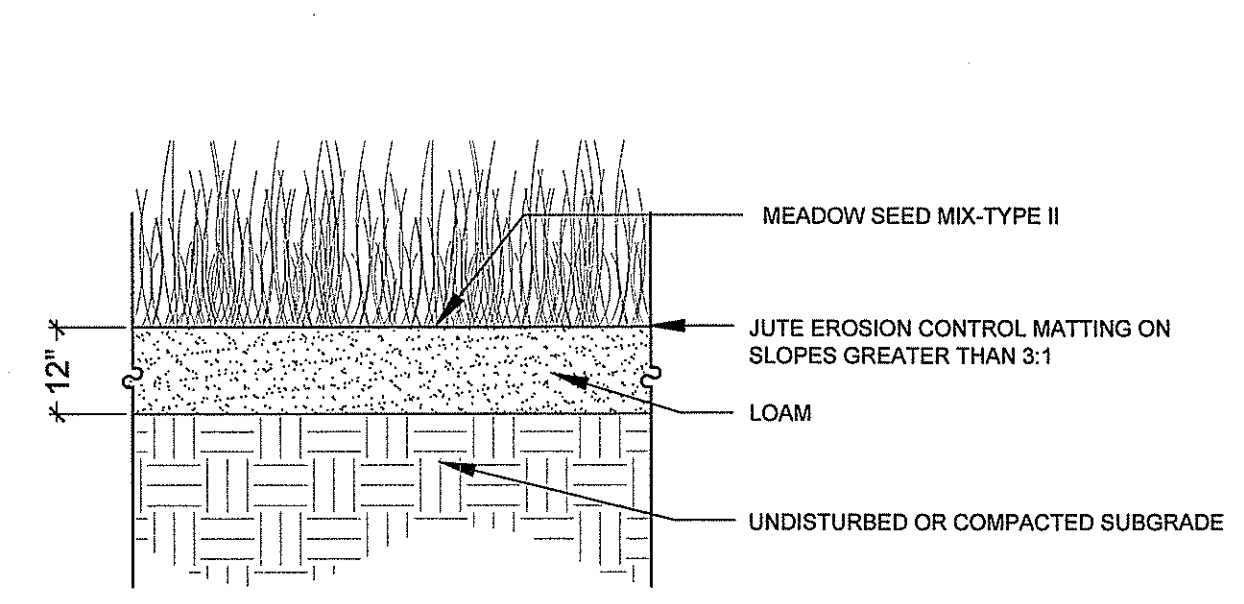
©IRONWOOD 2018 **4** L4.0



Shrub Planting

Not to Scale

©IRONWOOD 2018 **7** L4.0



SEED MIX - MEADOW

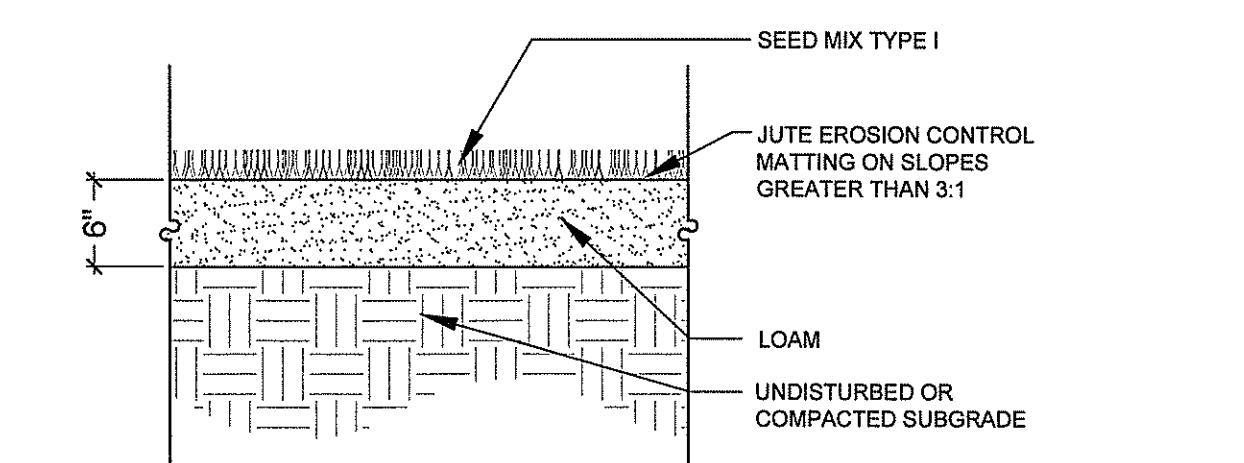
Scientific Name	Common Name
<i>Schizachyrium scoparium</i>	Little Bluestem
<i>Festuca rubra</i>	Creeping Red Fescue
<i>Scoroparium mitans</i>	Italian Grass
<i>Elymus canadensis</i>	Canada Wild Rye
<i>Elymus virginicus</i>	Virginia Wild Rye
<i>Chamaecrista fasciculata</i>	Partridge Pea
<i>Lupinus perennis</i>	Wild Blue Lupine
<i>Asclepias syriaca</i>	Common Milkweed
<i>Zizia aurea</i>	Golden Alexander
<i>Rudbeckia hirta</i>	Black Eyed Susan
<i>Mimulus lewisii</i>	Wild Bergamot
<i>Aster laevis</i>	Calico Aster
<i>Aster novae-angliae</i>	New England Aster
<i>Oenothera biennis</i>	Evening Primrose
<i>Pastinaca sativa</i>	Beard Tongue
<i>Verbena hastata</i>	Blue Vervain
<i>Vernonia noveboracensis</i>	New York Ironweed
<i>Aster laevis</i>	Smooth Blue Aster
<i>Euthamia graminifolia</i>	Grass Leaved Goldenrod
<i>Solidago juncea</i>	Early Goldenrod

Apply at rate of 231lb/acre. New England Wildflower Mix available at New England Wetland Plants, Ma: www.newp.com. Approved equal may be substituted.

Dry Meadow Seeding

Not to Scale

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Type I Lawn Percent by weight	Common Name	Scientific Name
40%	Celtnite, Rebel II or Tribute Tall Fescue	
15%	Palmer II Perennial Ryegrass	
10%	Jamestown Chewings Fescue	
10%	Reliant Hard Fescue	
10%	Birdsfoot Trefoil	<i>Arvensis</i> variety
5%	Swiftness	
5%	White Clover	
5%	Redtop	<i>Streaker</i> variety

Apply at a rate of 265lb/acre

Lawn Seeding

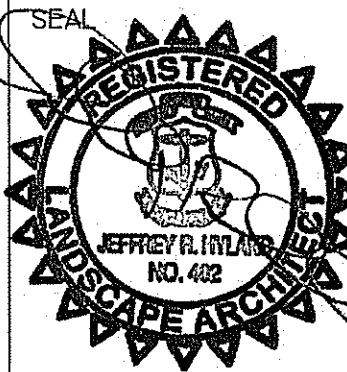
Not to Scale

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SEED MIX - BIORETENTION AREA

Botanical Name	Common Name
<i>Carex lurida</i>	Lurid Sedge
<i>Carex scoparia</i>	Blunt Broom Sedge
<i>Verbena hastata</i>	Blue Vervain
<i>Carex lupulina</i>	Hop Sedge
<i>Scirpus atrovirens</i>	Green Bulrush
<i>Panicum rigidulum</i>	Redtop Panic Grass
<i>Deschampsia cespitosa</i>	Tufted Hairgrass
<i>Bidens aristata</i>	Tickseed Sunflower/Bur Marigold
<i>Eleocharis palustris</i>	Creeping Spike Rush
<i>Juncus effusus</i>	Soft Rush
<i>Carex crinita</i>	Fringed Sedge
<i>Minutus ringens</i>	Square Stemmed Monkey Flower
<i>Aster puniceus</i>	Swamp Aster
<i>Eupatorium perfoliatum</i>	Boneset
<i>Glyceria canadensis</i>	Rattlesnake Grass
<i>Asclepias incarnata</i>	Swamp Milkweed
<i>Helianthus autumnale</i>	Common Sneezeweed
<i>Penthorum sedoides</i>	Ditch Stonecrop

Martin D. Wenzel
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Evergreen Tree Planting

Not to Scale

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Shrub Planting

Not to Scale

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Bioretention Forebay Seeding

Not to Scale

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WOONASQUATUCKET
 ADVENTURE PARK
 PROVIDENCE, RHODE ISLAND

SHEET TITLE

LANDSCAPE DETAILS

REV. NO.	REV. DATE	REVISION DESCRIPTION

IRONWOOD PROJECT NO. IS072.1
 SCALE AS NOTED
 DRAWN BY JM/JRH
 CHECKED BY JRH
 DATE 2/9/18

NORTH

SEAL

REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT

L4.0
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GENERAL NOTES:

- THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH ALL UTILITIES ABOVE GRADE, AT GRADE, AND UNDERGROUND INCLUDING UTILITY PIPES AND STRUCTURES. THE CONTRACTOR SHALL VERIFY WITH THE UTILITY COMPANIES THE LOCATION OF ALL UTILITIES PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR THE COST INCURRED DUE TO DAMAGE AND REPLACEMENT OF ALL UTILITIES ON SITE. THE CONTRACTOR SHALL CONTACT DIG-SAFE AND NECESSARY CITY DEPARTMENTS TO FIELD LOCATE ALL UTILITIES BEFORE STARTING WORK.
- THE CONTRACTOR SHALL NOT DO ANY WORK BEYOND THE LIMITS OF WORK EXCEPT AS SHOWN ON THE DRAWINGS AND AUTHORIZED BY THE LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR THE COST INCURRED DUE TO REPLACEMENT OF WORK DONE BEYOND THE CONTRACT LIMIT AND REPLACEMENT FOR WORK DONE WITHOUT PERMISSION OF THE LANDSCAPE ARCHITECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL THE COORDINATION TO COMPLETE THE WORK SHOWN ON THE DRAWINGS.
- ALL NOTES SHALL BE APPLICABLE TO ALL DRAWINGS.
- CONTRACTOR SHALL SUPPLY AND MAINTAIN FOR THE DURATION OF CONSTRUCTION ALL NECESSARY DEVICES OR MATERIALS FOR EROSION, SEDIMENT AND DUST CONTROL, SUCH AS HAY BALES, GRAVEL, BOARDS, ETC., INCLUDING THOSE ITEMS NECESSARY FOR STOCKPILES AND PROTECTION OF ADJACENT PUBLIC WAYS, AND SHALL REMOVE THE DEVICES AFTER PROJECT COMPLETION.
- REPAIR OR REMOVE AND REPLACE DEFECTIVE CONSTRUCTION, RESTORE DAMAGED SUBSTRATES AND FINISHES. REPAIRS INCLUDE REPLACING DEFECTIVE PARTS, REFINISHING DAMAGES SURFACES, TOUCHING UP WITH MATCHING MATERIALS, AND PROPERLY ADJUSTING OPERATING EQUIPMENT. RESTORE PERMANENT FACILITIES USED DURING INSTRUCTION TO THEIR SPECIFIED CONDITION. REMOVE AND REPLACE DAMAGED SURFACES THAT ARE EXPOSED TO VIEW IF SURFACES CANNOT BE REPAIRED WITHOUT VISIBLE EVIDENCE OF REPAIR. REPAIR COMPONENTS THAT DO NOT OPERATE PROPERLY. REMOVE AND REPLACE OPERATING COMPONENTS THAT CANNOT BE REPAIRED.
- FINAL CLEANING: USE CLEANING MATERIALS AND AGENTS RECOMMENDED BY MANUFACTURER OR FABRICATOR OF THE SURFACE TO BE CLEANED. DO NOT USE CLEANING AGENTS THAT ARE POTENTIALLY HAZARDOUS TO HEALTH OR PROPERTY OR THAT MIGHT DAMAGE FINISHED SURFACES. COMPLY WITH MANUFACTURERS WRITTEN INSTRUCTIONS. COMPLY WITH SAFETY STANDARDS FOR CLEANING. CONDUCT CLEANING AND WASTE-REMOVAL OPERATIONS TO COMPLY WITH LOCAL LAWS AND ORDINANCES AND FEDERAL AND LOCAL ENVIRONMENTAL AND ANTIPOLLUTION REGULATIONS. DO NOT BURN WASTE MATERIALS. DO NOT BURY DEBRIS OR EXCESS MATERIALS ON THE CITY'S PROPERTY. DO NOT DISCHARGE VOLATILE, HARMFUL, OR DANGEROUS MATERIALS INTO DRAINAGE SYSTEMS. REMOVE WASTE MATERIALS FROM PROJECT SITE AND DISPOSE OF LAWFULLY. COMPLETE THE FOLLOWING CLEANING OPERATIONS BEFORE REQUESTING INSPECTION FOR CERTIFICATION OF FINAL ACCEPTANCE FOR ENTIRE PROJECT OR FOR A PORTION OF PROJECT:
 - CLEAN PROJECT SITE, YARD, AND GROUNDS, IN AREAS DISTURBED BY CONSTRUCTION ACTIVITIES, OF RUBBISH, WASTE MATERIAL, LITTER, AND OTHER FOREIGN SUBSTANCES.
 - SWEEP PAVED AREAS BROOM CLEAN. REMOVE PETROCHEMICAL SPILLS, STAINS, AND OTHER FOREIGN DEPOSITS.
 - RAKE GROUNDS THAT ARE NEITHER PLANTED NOR PAVED TO A SMOOTH, EVEN-TEXTURED SURFACE.
 - REMOVE TOOLS, CONSTRUCTION EQUIPMENT, MACHINERY, AND SURPLUS MATERIAL FROM PROJECT SITE.
 - REMOVE SNOW AND ICE TO PROVIDE SAFE ACCESS TO BUILDING.
 - CLEAN EXPOSED HARD-SURFACED FINISHED TO A DIRT-FREE CONDITION, FREE OF STAINS, FILMS, AND SIMILAR FOREIGN SUBSTANCES. AVOID DISTURBING NATURAL WEATHERING OF EXTERIOR SURFACES. RESTORE REFLECTIVE SURFACES TO THEIR ORIGINAL CONDITION.
 - REMOVE LABELS THAT ARE NOT PERMANENT.

SITE PREPARATION NOTES:

- PROTECTION OF EXISTING LANDSCAPING TO REMAIN: EVERY EFFORT SHALL BE TAKEN TO PRESERVE THE HEALTH OF EXISTING VEGETATION TO BE PROTECTED ON SITE. PRIOR TO BEGINNING ANY WORK OF THE CONTRACT ON SITE TAKE EFFECTIVE ACTION TO PROTECT ALL EXISTING LANDSCAPING INDICATED TO REMAIN.
- ALL ELEMENTS IDENTIFIED TO BE PROTECTED SHOULD BE ENCIRCLED WITH AN ORANGE PLASTIC, 4'-HIGH BARRICADE FENCE THAT IS WELL-STAKED FOR THE DURATION OF THE PROJECT.
- PROTECT THE TRUNK OF TREE NOTED IN ROOT PROTECTION ZONE FROM SCRAPING AND GOUGING BY PLACING A BAND OF 2 X 4S ON THE TRUNK WITH A MAXIMUM DISTANCE OF 8" APART AS NEEDED TO ENCIRCLE THE DIAMETER OF THE TRUNK TO A HEIGHT OF 8 FEET. SECURE WITH 1/2" POLY-STRAPPING WITH 0.20" MINIMUM THICKNESS EVERY 18".
- THE ROOT PROTECTION ZONE WILL REQUIRE THAT ALL EXCAVATION WORK BE DONE WITH AN AIR SPADE AND/OR BY HAND DIGGING. WHEN ROOTS ARE ENCOUNTERED THAT MUST BE CUT, IN ORDER TO INSTALL UTILITIES OR PAVEMENT, THEY ARE TO BE PRUNED USING A HAND SAW, LOPPERS, OR HAND PRUNERS. PRUNE AWAY JAGGED ROOTS BACK TO THE TRENCH WALL CLOSEST TO THE TREE.
 - KEEP EQUIPMENT AND EXCAVATED BACKFILL ON THE SIDE FURTHEST FROM THE TREE.
 - REPLACE THE BACKFILL ON THE SAME DAY. IF THIS IS NOT POSSIBLE, COVER THE EXPOSED ROOTS WITH WET BURLAP TO PREVENT THEM FROM DRYING OUT.
 - DO NOT ALLOW CHEMICALS OR FOREIGN DEBRIS TO BECOME MIXED WITH THE BACKFILL.
 - PACK THE BACKFILL TO THE SAME FIRMNESS AS THE SURROUNDING SOIL.
 - WATER THE BACKFILL IF THE OPERATION OCCURS DURING HOT, DRY WEATHER.
- POST APPROPRIATE SIGNAGE FOR THE ROOT PROTECTION ZONE.
- AVOID THE FOLLOWING ACTIVITIES WITHIN THE ROOT PROTECTION ZONE.
 - STORAGE OF CONSTRUCTION MATERIALS.
 - CONCRETE WASH-OUT OPERATIONS.
 - STOCKPILING OF DEMOLITION DEBRIS.
 - PARKING OF ANY VEHICLES.
 - STOCKPILING OF SOIL AND/OR MULCH.

LAYOUT AND MATERIALS NOTES:

- ALL GENERAL NOTES SHALL BE INCLUDED AS PART OF THE LAYOUT & MATERIALS NOTES.
- USE DIMENSIONAL INFORMATION GIVEN. DO NOT SCALE DRAWINGS.
- ALL DIMENSIONS SHOWN ARE TAKEN TO THE FACE OR CENTERLINE OF ELEMENTS
- THE CONTRACTOR SHALL VERIFY DIMENSIONS SHOWN ON THE DRAWINGS AND SHALL NOTIFY THE LANDSCAPE ARCHITECT IN WRITING OF ANY DISCREPANCIES PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL REVIEW AND OBTAIN THE APPROVAL OF THE FINAL LAYOUT WITH THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE PRIOR TO STARTING CONSTRUCTION. IF DEEMED NECESSARY BY THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE, THE CONTRACTOR SHALL STAKE OUT PROPOSED TREE LOCATIONS TO AID IN THE REVIEW OF THE FINAL LAYOUT.
- THE CONTRACTOR SHALL LAYOUT AND DETERMINE THE ELEVATIONS OF ALL SITE ELEMENTS FOR APPROVAL BY THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL REPORT ANY CONFLICTS BETWEEN UTILITY STRUCTURES AND PROPOSED IMPROVEMENTS TO THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL REFER ANY QUESTIONS ON MATERIALS, FINISHES, AND/OR PRODUCTS NOT SPECIFIED HEREIN TO THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE PRIOR TO ORDERING MATERIALS OR STARTING WORK.
- ALL LINES AND DIMENSIONS ARE PARALLEL OR PERPENDICULAR TO THE LINES FROM WHICH THEY ARE MEASURED UNLESS OTHERWISE SHOWN.
- WHEN NEW PAVEMENT IS PLACED AGAINST EXISTING PAVEMENT, SAWCUT EXISTING PAVEMENT, AND GRADE SMOOTH AND FLUSH.

PLANTING NOTES:

- PLEASE SEE CONSTRUCTION SPECIFICATIONS FOR DETAILED INFORMATION.
- THE CONTRACTOR SHALL LOCATE AND VERIFY ALL EXISTING AND NEW UTILITY LINE LOCATIONS PRIOR TO PLANTING, AND SHALL REPORT ANY CONFLICT TO THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE.
- ALL PLANT MATERIAL SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE "AMERICAN STANDARD FOR NURSERY STOCK" PUBLISHED BY THE AMERICAN SOCIETY OF NURSERY MEN, INC. LATEST EDITION.
- THE CONTRACTOR SHALL STAKE THE LOCATION OF ALL THE PROPOSED PLANT MATERIAL FOR APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO PLANTING. NO PLANTS SHALL BE PLANTED BEFORE THE ACCEPTANCE OF ROUGH GRADING. THE BASE OF THE FLARE OF THE TREE TRUNK SHALL BE EXPOSED, IF NECESSARY, AND PLACED 1"-2" ABOVE FINISH GRADE.
- ANY PROPOSED SUBSTITUTIONS OF PLANT SPECIES WILL BE PLANTS WITH EQUIVALENT OVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER COLOR, LEAF COLOR, FRUIT COLOR, AND TIME OF BLOOM, AS APPROVED BY THE LANDSCAPE ARCHITECT.
- EXISTING LOAM: STOCKPILING OF EXISTING LOAM IS SPECIFIED ELSEWHERE. REMOVE CLAY LUMPS, BRUSH, LITTER, ROOTS, STONES 1" AND LARGER, AND OTHER FOREIGN MATERIALS.
- ADDITIONAL LOAM: IF STOCKPILED LOAM QUANTITY IS INSUFFICIENT, PROVIDE LOAM, WHICH IS A "FINE SANDY LOAM", OR A "SANDY LOAM" DETERMINED BY MECHANICAL ANALYSIS AND BASED ON THE "U.S.D.A. CLASSIFICATION SYSTEM." IT SHALL BE OF UNIFORM COMPOSITION, WITHOUT ADMIXTURE OF SUBSOIL. LOAM SHALL HAVE AN ACIDITY RANGE OF PH 5.8 TO PH 7.0 AND SHALL CONTAIN NOT LESS THAN 4% NOR MORE THAN 10% ORGANIC MATTER AS DETERMINED BY THE LOSS OF IGNITION OF OVEN-DRIED SAMPLES. PROVIDE LOAM WHICH IS FERTILE, FRIABLE, NATURAL LOAM FREE FROM SUBSOIL, CLAY LUMPS, BRUSH, LITTER, ROOTS, STONES 1" AND LARGER, AND ANY FOREIGN MATERIALS.
- PINE MULCH: PROVIDE PARTIALLY DECOMPOSED MINIMUM SIX MONTH AGED FINELY SHREDDED PINE BARK MULCH WITH DARK BROWN COLOR AND FREE OF WEEDS, EXCESSIVE FINE PARTICLES, STRINGY MATERIAL, AND CHUNKS OF WOOD THICKER THAN 1/4". PROVIDE BARK MULCH APPROVED BY THE LANDSCAPE ARCHITECT. APPLY TACKIFIED MULCH TO ALL SEEDED AREAS. RIVERSTONE MULCH: SMOOTH RIVERSTONE SHALL CONSIST OF 50% 1" TO 2.5" STONES, 25% 3" TO 4" STONES, AND 25% 3/4" TO 1" STONES.
- ALL PLANTS SHALL BE PLUM VERTICALLY AFTER SETTLING.
- ALL PLANT MATERIAL SHALL BE MULCHED AFTER PLANTING.
- LESS OTHERWISE INDICATED, DICTATED BY CONDITIONS AT THE SITE, AND DIRECTED BY LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE, BACKFILL SHALL CONSIST OF UNAMENDED SOIL EXCAVATED FROM THE PLANTING PIT. BACKFILL IN 3-4" LAYERS AND CONSOLIDATE EACH LAYER WITH WATER TO ELIMINATE VOIDS AND ARE POCKETS BEFORE PLACING SUBSEQUENT LAYERS. CONTINUE UNTIL BACKFILL HAS REACHED FINISHED GRADE. WATER THOROUGHLY WHEN EXCAVATION IS BACK FILLED AND CONTINUE WATERING UNTIL SATURATED. IF EXISTING UNAMENDED SOIL IS NOT ACCEPTED, PROVIDE PLANTING SOIL MIXTURE CONSISTING OF 7 PARTS LOAM AND 1 PART COMPOST. MIX QUANTITY OF FERTILIZER AND SOIL AMENDMENTS AS RECOMMENDED BY SOIL ANALYSIS AND APPROVED BY THE LANDSCAPE ARCHITECT.
- WATERING: FLOOD ALL PLANTS WITH WATER TWICE WITHIN THE FIRST 24 HOURS AFTER PLANTING.
- LOAMING: LOOSEN SUBGRADE AND EXISTING LOAM AREAS BY DISCING OR ROTOTILLING TO MINIMUM DEPTH OF 6". REMOVE STONES GREATER THAN 2" AND ALL RUBBISH AND DEBRIS. PLACE LOAM IN TWO EQUAL LIFTS MIXING FIRST APPLICATION INTO LOOSENED SUBGRADE THEN PLACE SECOND LIFT TO BRING LOAM AFTER SETTLING AND COMPACTING TO THE LINES AND GRADES SHOWN IN THE CONTRACT DOCUMENTS, 6" DEEP MINIMUM. DO NOT HANDLE LOAM OR SUBSOIL IF IT IS WET OR FROZEN.

PLANTING NOTES (CONTINUED):

- AFTER LOAM HAS BEEN SPREAD, IT SHALL BE CAREFULLY PREPARED BY SCARIFYING AND HAND RAKING. ALL LARGE STIFF CLOUDS, LUMPS, BRUSH, ROOTS, STUMPS, LITTER AND FOREIGN MATTER, AND STONES OVER ONE INCH IN DIAMETER SHALL BE REMOVED FROM THE LOAM. LOAM SHALL ALSO BE FREE OF SMALLER STONES IN EXCESSIVE QUANTITIES AS DETERMINED BY THE LANDSCAPE ARCHITECT.
- FINE GRADING: SET SUFFICIENT GRADE STAKES FOR CHECKING THE FINISHED GRADES. STAKES MUST BE SET AT THE BOTTOM AND TOP OF SLOPES. GRADES SHALL BE ESTABLISHED THAT ARE ACCURATE TO 1/10TH OF A FOOT EITHER WAY. CONNECT CONTOURS AND SPOT ELEVATIONS WITH AN EVEN SLOPE. ALL GRADING WILL INSURE DRAINAGE AWAY FROM STRUCTURES.
- FINE GRADE LAWN AREAS TO SMOOTH, FREE DRAINING, EVEN SURFACES WITH FINE TEXTURE. ROLL, RAKE AND DRAW LAWN AREAS TO FLATTEN RIDGES AND FILL DEPRESSIONS, EXCEPT AT SELECT AREAS SHOW ON THE DRAWINGS. CONTROL MOISTURE CONTENT TO MAINTAIN OPTIMUM CONDITIONS, BUT DO NOT CREATE A MUDDY CONDITION.
- ROLLING - TYPICAL: ROLL THE ENTIRE AREA WITH A HAND ROLLER WEIGHTING NOT MORE THAN 100 POUNDS PER FOOT OF WIDTH. DURING THE ROLLING, ALL DEPRESSIONS CAUSED BY SETTLEMENT OF ROLLING SHALL BE FILLED WITH ADDITIONAL LOAM AND THE SURFACE SHALL BE REGARDED AND ROLLED UNTIL PRESENTING A SMOOTH AND EVEN FINISH TO THE REQUIRED GRADE OR TO THE SHAPES AND CONFIGURATIONS AS SHOWN ON THE DETAILS.
- LIMIT OF WORK LINE SHALL BE LIMIT OF SEEDING AND SODDING UNLESS OTHERWISE INDICATED ON THE DRAWINGS. ALL AREAS DISTURBED OUTSIDE THE LIMIT OF WORK SHALL BE SEEDED OR SODDED AS INDICATED ON THE DRAWINGS.
- IN CASE OF DISCREPANCIES BETWEEN THE QUANTITIES SHOWN ON THE PLANT SCHEDULE AND THE QUANTITIES SHOWN ON THE PLANTING PLAN, THE QUANTITIES ON THE PLANTING PLAN SHALL BE PROVIDED BY THE CONTRACTOR.

SOILS NOTES:

- SOIL MIXES FOR BIORETENTION AND DISTURBED AREAS TO BE SEEDED ARE DESCRIBED BELOW.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING SAMPLES FOR EACH OF THE PRODUCTS DESCRIBED BELOW, SUBMITTING EACH FOR TESTING AND PROVIDING ALL REQUIRED CERTIFICATIONS.
- LOAM USED IN MIXES IS DEFINED AS: A MIXTURE OF SAND, SILT AND CLAY AND ORGANIC PARTICLES EITHER EXISTING OR THOROUGHLY MIXED WITH AMENDMENTS TO MEET THE REQUIREMENTS OF "SANDY LOAM." SANDY LOAM IS DETERMINED BY MECHANICAL ANALYSIS AND BASED ON THE USDA TEXTURAL CLASSIFICATION. IT SHALL CONFORM TO THE FOLLOWING GRAIN SIZE DISTRIBUTION FOR MATERIAL PASSING THE #4 SIEVE:

TEXTURAL CLASSIFICATION	% TOTAL WEIGHT
SAND (0.05 - 2.0 MM DIA. RANGE)	>52
SILT (0.002 - 0.05 MM DIA. RANGE)	28-50
CLAY (LESS THAN 0.002 MM DIA.)	7-27
- LOAM SHALL BE FREE OF STUMPS, ROOTS, HEAVY OR STIFF CLAY, STONES EQUAL OR LARGER THAN 1-INCH IN ANY DIMENSION, LUMPS, COARSE SAND, NOXIOUS WEEDS, STICKS, BRUSH OR OTHER LITTER.
- TEST REPORTS FOR LOAM SHALL INCLUDE: MECHANICAL SIEVE ANALYSIS WITH SOIL CLASSIFICATION, ORGANIC CONTENT AND CATION EXCHANGE CAPACITY (CEC), PH (1:1 SOIL-WATER RATIO), BUFFER PH, SOLUBLE SALTS (1:2 SOIL-WATER RATIO), NITRATE NITROGEN, AMMONIUM NITROGEN, PHOSPHORUS, POTASSIUM, CALCIUM, ALUMINUM, MAGNESIUM, MANGANESE, FERRIC IRON, SULFATE. TESTS SHALL INCLUDE A REPORT OF ANY TOXIC ELEMENTS. TEST REPORT SHALL CLEARLY RECOMMEND APPROPRIATE LIMESTONE, FERTILIZER AND OTHER ADDITIVES REQUIRED TO ADJUST LOAM TO USE FOR NEW SEEDING OF TURF. ORGANIC FERTILIZERS ARE RECOMMENDED.
- LOAM AS AMENDED SHALL CONTAIN BETWEEN 4% AND 8% ORGANIC MATTER.
- COMPOST USED IN SOIL MIXES SHALL BE PRODUCED BY A NHDES OR EPA APPROVED COMPOSTING VENDOR OF 'FEEDSTOCK' FROM MATURE LEAF COMPOST, MATURE COMPOSTED ANIMAL MANURE, OTHER AGED, COMPOSTED VEGETABLE MATERIALS, OR CHEMICALLY TESTED TOXIN-FREE PROCESSED SLUDGE PRODUCTS SAFE FOR PLANTS, HUMANS AND SOIL ORGANISMS.
- SAND USED IN THE MIXES MUST BE CLEAN. NATURAL, UNWASHED SAND DEPOSITS MAY NOT BE USED. LIKEWISE, SAND THAT HAS BECOME CONTAMINATED BY IMPROPER STORAGE OR INSTALLATION PRACTICES WILL BE REJECTED. SAND MUST BE CLASSIFIED AS COARSE CONCRETE SAND AND MEET THE FOLLOWING PARTICLE SIZE DISTRIBUTION:

SIEVE NO (#)	% PASSING	SIEVE NO (#)	% PASSING
3/8" (9.5 MM)	100	NO. 4 (4.75 MM)	95-100
NO. 8 (2.36 MM)	80-100	NO. 16 (1.18 MM)	50-85
NO. 30 (0.60 MM)	25-60	NO. 50 (0.30 MM)	10-30
NO. 100 (0.15 MM)	2-10		
- THE SOIL MIX FOR BIORETENTION AREAS SHALL BE COMPRISED OF AND MIXED AS FOLLOWS:

MIX FOR BIORETENTION AREAS	% BY VOLUME
COMPOST	10
COARSE CONCRETE SAND	40
HARDWOOD WOOD CHIPS, SHREDDED IF POSSIBLE	20
LOAM	30

Walter D. Wenzel
 DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED MAY 02 2018 FILE # 18-0030
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

PERMITTING SUBMISSION

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 Tel. 401.294.1684 - www.halibeckman.com
 Estate Planning - Landscape Architecture

Ironwood
 Landscape Architecture • Planning
 Newmarket, NH | Portland, ME | 603.772.0590 | www.Ironwood.com



**WOONASQUATUCKET
 ADVENTURE PARK
 PROVIDENCE, RHODE ISLAND**

SHEET TITLE

LANDSCAPE NOTES

REV. NO. REV. DATE REVISION DESCRIPTION

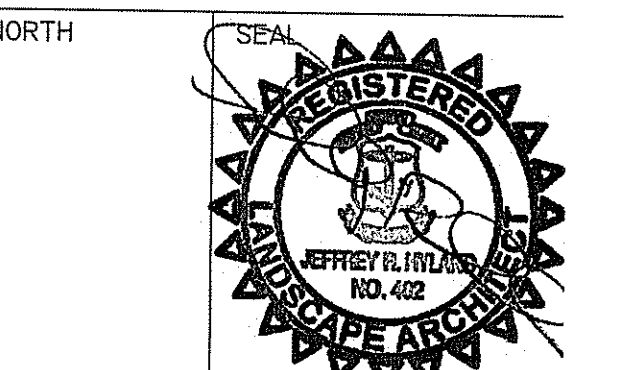
IRONWOOD PROJECT NO. 15072.1

SCALE AS NOTED

DRAWN BY JM/JRH

CHECKED BY JRH

DATE 2/9/18



L5.0
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LEGEND	
	MONITORING WELL
	FIRE HYDRANT
	WATER VALVE
	ELEVATION CONTOUR
	LIMIT OF WORK
	APPROX. EDGE OF RIVER
	APPROX. BOUNDARY LINE

CONTROL
STAKE/NAIL SET
N=259003.373
E=339240.867
Z=61.29 (NGVD'29)

A.P. 113
LOT 440

A.P. 113
LOT 439

BENCHMARK
CROSS CUT ON FIRE
HYDRANT BARNET BOLT
BY OTHERS
ELEV=82.26 (NGVD'29)
N=268733.334
E=339412.716

CONTROL
MAG NAIL FOUND
N=268613.317
E=339474.627
Z=86.07 (NGVD'29)

CONTROL
MAG NAIL SET
N=268559.250
E=339459.640
Z=90.23 (NGVD'29)

CONTROL
DRILL HOLE SET
N=257883.03484
E=339540.49485
Z=83.86 (NGVD'29)

Barbara Street
(40' PUBLIC R.O.W.)

Ponagansett Avenue
(40' PUBLIC R.O.W.)

A.P. 113
LOT 406

A.P. 113
LOT 407

A.P. 113
LOT 408

A.P. 113
LOT 409

A.P. 113
LOT 410

A.P. 113
LOT 411

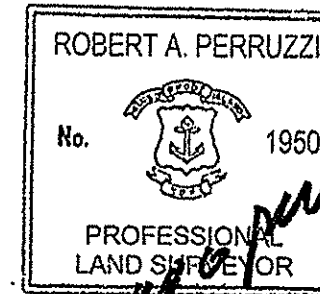
A.P. 113
LOT 407

STATE OF RHODE ISLAND
(ROUTE 6 EXPRESSWAY)

- NOTES:
1. THE HORIZONTAL DATUM IS RHODE ISLAND STATE PLANE NAD-83 AND IS BASED ON SURVEY CONTROL PROVIDED IN CONTRACT DRAWINGS OF THE SITE. THE VERTICAL DATUM IS NATIONAL GEODETIC VERTICAL DATUM OF 1929 AND IS BASED ON SURVEY CONTROL PROVIDED IN CONTRACT DRAWINGS OF THE SITE.
 2. TOPOGRAPHY SHOWN IS BASED UPON CONVENTIONAL FIELD SURVEY PERFORMED BETWEEN DECEMBER 7th AND 9th, 2010 BY ALPHA SURVEYING AND ENGINEERING INC.
 3. THIS SURVEY AND PLAN CONFORM TO A CLASS III STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS (DATA ACCUMULATION SURVEY). THIS PLAN IS NOT TO BE CONSTRUED AS AN ACCURATE BOUNDARY SURVEY AND IS SUBJECT TO CHANGES SUCH THAT AN ACCURATE BOUNDARY SURVEY MAY DISCLOSE.
 4. THE BOUNDARY LINES SHOWN HEREON ARE APROXIMATE AND HAVE BEEN COMPILED FROM CONTRACT DRAWING OF THE SITE.

I CERTIFY THE LOCATIONS AND ELEVATIONS SHOWN ON THIS PLAN RESULT FROM AN ACTUAL SURVEY MADE ON THE GROUND.

Robert A. Perruzzi 12-13-2010
REGISTERED PROFESSIONAL LAND SURVEYOR DATE
FOR ALPHA SURVEYING & ENGINEERING, INC.



Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

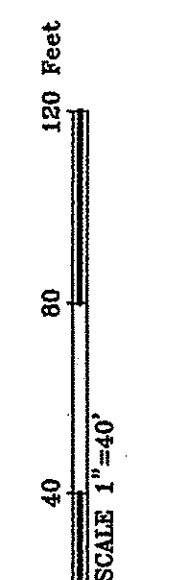
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE

PREPARED FOR
R.C. & D. INC.
17 GORDON AVE., SUITE 204
PROVIDENCE, RI 02905

PROJECT NO. 10154
SHEET NO. 1 OF 1
DATE 12-13-10
SCALE 1"=40'

ROBERT A. PERRUZZI
PROFESSIONAL LAND SURVEYOR

ALPHA SURVEYING AND ENGINEERING INC.
695 WAREHAM STREET
MIDDLEBOROUGH, MASSACHUSETTS 02346
(508) 295-5505



AS-BUILT PLAN
LAND IN PROVIDENCE, RHODE ISLAND
LINCOLN LACE AND BRAID REMEDIATION PROJECT
MAP 113 LOTS 429 & 305 - 55 & 59 PONAGANSETT AVENUE