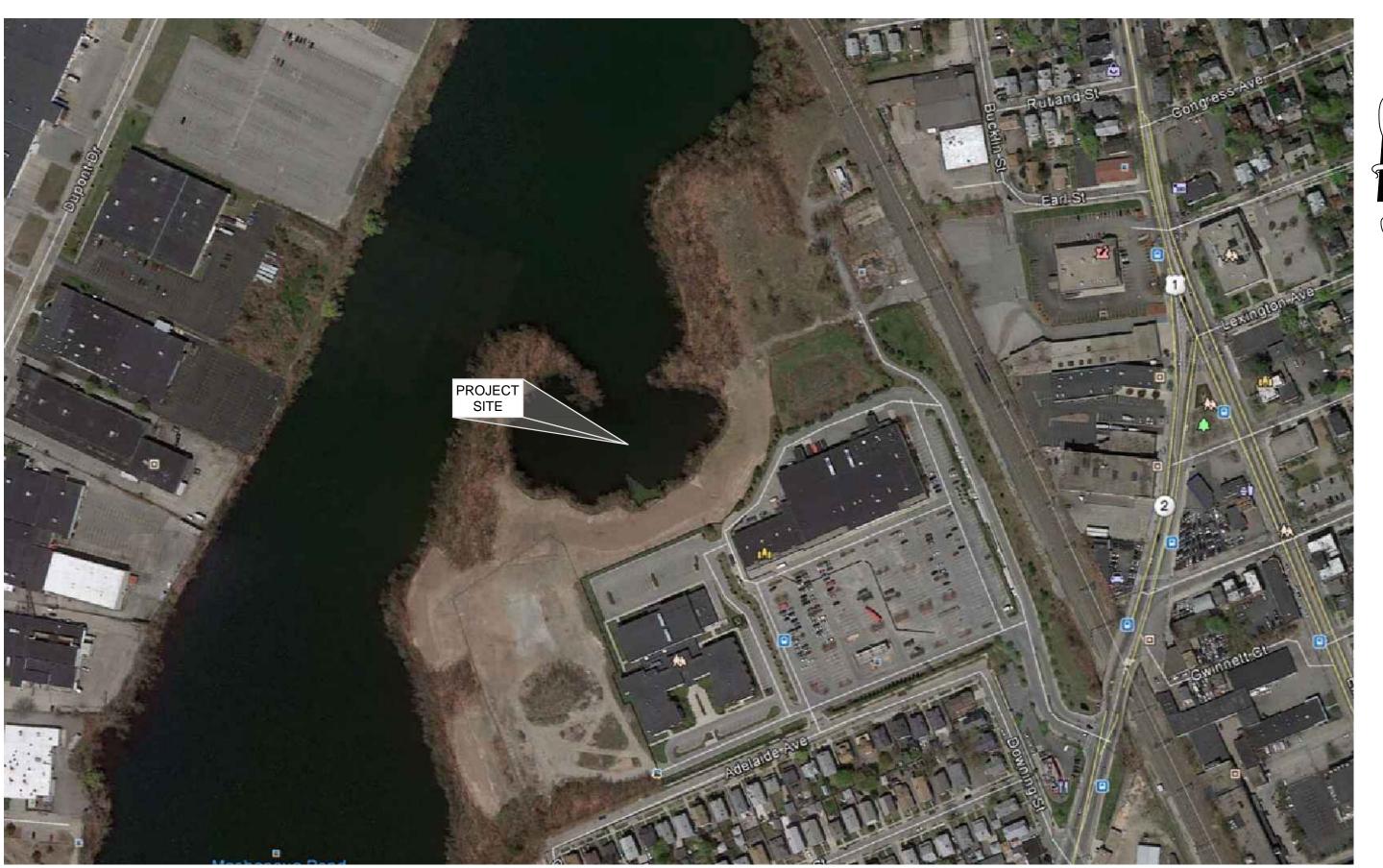


LOCUS MAP

500 1000 SCALE IN FEET

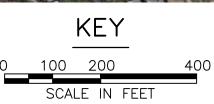
# TEXTRON, INC. PHASE II, III, AND PARCEL C CAP FORMER GORHAM MANUFACTURING SITE PROVIDENCE, RHODE ISLAND JUNE, 2015



## DRAWING INDEX

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UNLESS OTHERWISE AGREED IN A WRITTEN CONTRACT BETWEEN AMEC FOSTER WHEELER AND ITS CLIENT: (I) THIS DOCUMENT MAY ONLY BE USED BY THE CLIENT IN THE CONTEXT AND FOR THE EXPRESS PURPOSE FOR WHICH IT HAS BEEN DELIVERED. ANY OTHER USE OR RELIANCE ON THIS DOCUMENT BY ANY THIRD PARTY IS AT THAT PARTY'S SOLE RISK AND RESPONSIBILITY.



MAP SOURCE: GOOGLE EARTH PRO

PREPARED FOR:



PREPARED BY:

amec foster wheeler



**GENERAL NOTES:** 

- 1. PLANS HAVE BEEN COMPILED FROM ON-SITE INVESTIGATIONS, GIS, LIDAR, AND SURVEY. SEE PLAN REFERENCES FOR FURTHER INFORMATION.
- 2. ELEVATIONS BASED UPON THE CONTROL DATUM SHOWN ON V-101.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO CONSTRUCTION. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. INCLUDING DISCREPANCIES TO ANY CODE/REGULATORY REQUIREMENTS. IF ANY DISCREPANCIES ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
- 4. ALL ACTIVITIES SHALL BE CONDUCTED IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL, STATE, AND FEDERAL JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK. THE WORK PERFORMED ON THE PROJECT AND THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. THE WORK SHALL ALSO CONFORM TO ALL APPLICABLE TEXTRON REQUIREMENTS.
- THE CONTRACTOR SHALL OBTAIN AUTHORIZATION FROM OWNER AND/OR ENGINEER TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONTRACT DOCUMENTS.
- 6. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED BY THE OWNER, ENGINEER, THE STATE, COUNTY OR LOCAL GOVERNMENT AUTHORITY.
- THE CONTRACTOR SHALL KEEP THE GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH, AND EQUIPMENT AS SPECIFIED, CONTRACTOR SHALL CLEAN AND SUPPLY A ROLL-OFF CONTAINER OR DUMPSTER TO BE EMPTIED AS NEEDED. CLEANING SHALL BE IN COMPLIANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS. PREMISES SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM TRASH, DEBRIS, DUST, OR OTHER HAZARDS OF ANY NATURE AT PROJECT COMPLETION.
- 9. DISPOSAL OF ALL MATERIALS SHALL BE COMPLETED IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS AND SHALL BE THE CONTRACTOR'S RESPONSIBILITY. CONTRACTOR SHALL STORE ON SITE AND LOAD IN CLIENT PROVIDED CONTAINERS ALL STUMPS AND HAZARDOUS MATERIALS, FOR DISPOSAL BY CLIENT.
- 10. THE CONTRACTOR SHALL COMPLY WITH ALL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS AS THEY APPLY TO THIS PROJECT. ANY PERSONNEL THAT HAVE THE POTENTIAL TO BE EXPOSED TO HAZARDOUS OR POTENTIALLY HAZARDOUS MATERIALS, SHALL BE TRAINED AND PERFORM ALL WORK IN COMPLIANCE WITH 29 CFR 1910.120, HAZARDOUS WASTE OPERATIONS AND EMERGENCY RESPONSE (HAZWOPER).
- 11. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, AND EXISTING FEATURES PRIOR TO THE START OF ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER. CONTRACTOR SHALL VERIFY ACTUAL FIELD CONDITIONS PRIOR TO CONSTRUCTION.
- 12. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL UTILITIES AND SERVICES THROUGHOUT THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL PROTECT ALL UTILITY LINES THROUGHOUT ALL PHASES OF WORK
- 13. UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND MAY NOT INCLUDE ALL UTILITIES WITHIN THE PROJECT
- 14. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UNDERGROUND PIPING AND STRUCTURES PRIOF TO ANY EXCAVATION ACTIVITIES BY CONTACTING THE CITY OF PROVIDENCE FOR WATER LOCATION AND RHODE ISLAND DIG-SAFE (1-800-DIG-SAFE) (72) HOURS BEFORE STARTING CONSTRUCTION ACTIVITIES FOR FIELD MARKING UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING UNDERGROUND UTILITIES THAT MAY NOT BE MARKED BY THE UTILITY COMPANIES. SUBSURFACE CONDITIONS ARE NOT GUARANTEED. THE CONTRACTOR SHALL REPAIR CONTRACTOR-CAUSED DAMAGE ACCORDING TO LOCAL STANDARDS AT CONTRACTOR'S EXPENSE.
- 15. UNLESS OTHERWISE NOTED, ALL EXISTING FEATURES DESIGNATED ON THE PLANS ARE TO REMAIN. INCLUDING, BUT NOT LIMITED TO, TREES, SIGNS, FENCING/GATES, AND SIGN POSTS. FEATURES SHALL BE VERIFIED, LOCATED AND PROTECTED DURING ALL PHASES OF CONSTRUCTION.
- 16. THE SITE IS ADJACENT TO AN ACTIVE NEIGHBORHOOD, HIGH SCHOOL, AND RETAIL CENTER WHICH WILL BE OPERATIONAL DURING CONSTRUCTION. ALL CONSTRUCTION ACTIVITIES MUST BE COMPLETED WITH RESPECT TO THE ONGOING ACTIVITIES OF THE SURROUNDING AREAS. ACCESS ROADWAYS SHALL REMAIN OPEN AND FREE OF DEBRIS AT ALL TIMES.
- 17. PORTIONS OF THE WORK MAY REQUIRE ACCESS AND USE OF THE NARRAGANSETT BAY SEWER COMMISSION (NBC) EASEMENT. THE NBC IS AWARE OF THE PROJECT. NO SOIL DISTURBANCE, MATERIAL STAGING OR ALTERATION OF THE LAND WITHIN THE EASEMENT WILL BE ALLOWED.
- 18. PORTIONS OF THE WORK ARE WITHIN THE VICINITY OF THE NATIONAL RAILROAD PASSENGER CORPORATION (AMTRAK) EASEMENT OF AN ELECTRIC BOOSTER STATION AND HIGH SPEED RAILROAD. AMTRAK IS AWARE OF THE PROJECT. NO ACCESS TO AMTRAK PROPERTY IS ALLOWED. NO SOIL DISTURBANCE, MATERIAL STAGING OR ALTERATION OF THE LAND WITHIN THE EASEMENT WILL BE ALLOWED.
- 19. ALL ACTIVITIES SHALL BE CONDUCTED IN ACCORDANCE WITH THE RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT SOIL EROSION AND SEDIMENT CONTROL PLAN. RHODE ISLAND STORMWATER DESIGN AND INSTALLATION STANDARDS MANUAL, THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP), AND THE RHODE ISLAND POLLUTION DISCHARGE ELIMINATION SYSTEM (RIPDES) CONSTRUCTION GENERAL PERMIT.
- 20. CONTRACTOR SHALL LIMIT ALL CONSTRUCTION ACTIVITIES TO THE LIMITS OF DISTURBANCE.
- 21. PLACING OF TOPSOIL AND HYDROSEEDING SHALL NOT OCCUR UNTIL AUTHORIZED BY THE ENGINEER.
- 22. DISTURBED AREAS SHALL BE PLANTED AND SEEDED AS SPECIFIED IN THE CONTRACT DOCUMENTS.
- 23. THE CONTRACTOR SHALL REPORT TO THE OWNER OR THE ENGINEER ALL SPILLS AND LEAKS OF OIL OR OTHER HAZARDOUS SUBSTANCES (E.G., OIL, ANTIFREEZE, CHEMICALS, ETC.) OCCURRING DURING THE PERFORMANCE OF THIS CONTRACT IMMEDIATELY UPON DISCOVERY, REGARDLESS OF THE QUANTITY.
- 24. THE CONTRACTOR SHALL PREVENT DEBRIS FROM ENTERING ALL SWALES, INLETS, AND BASINS, PROVIDE AND MAINTAIN INLET PROTECTION FOR THE DURATION OF THE WORK AND CLEAN ALL STRUCTURES AT THE COMPLETION OF THE WORK.
- 25. CONTRACTOR SHALL PROVIDE A FULL SET OF AS-BUILT DRAWINGS TO THE OWNER AT THE COMPLETION OF THE PROJECT IN CONFORMANCE WITH THE CONTRACT DOCUMENTS.
- 26. ELEVATED CONCENTRATIONS OF PAHs, METALS, AND DIOXINS EXIST IN SURFACE SOILS WITHIN THE PROPOSED CONSTRUCTION LAYDOWN/STAGING/DECONTAMINATION AREAS. CONTRACTOR SHALL PERFORM DECONTAMINATION ACTIVITIES IN ACCORDANCE WITH THE SPECIFICATIONS. ALL MATERIAL STAGED WITHIN THESE AREAS MUST BE SEGREGATED SUCH THAT THERE IS NO CROSS CONTAMINATION.
- 27. CONTRACTOR TO PROVIDE DEWATERING AND TEMPORARY DAM DESIGN TO THE ENGINEER FOR APPROVAL FOR THE REMEDIATION ON THE INNER COVE.
- 28. CONTRACTOR SHALL REMOVE ORGANIC SEDIMENT FROM THE INNER COVE DOWN TO THE SANDY/GRAVEL MATERIAL TO A MAXIMUM DEPTH OF 2 FEET.
- 29. CONTRACTOR TO DISABLE AND SECURE ALL EQUIPMENT PRIOR TO DAILY SHUTDOWN. CLIENT IS NOT RESPONSIBLE FOR VANDALISM, OR LOSS DUE TO TRESPASSING.
- 30. ENGINEER TO PROVIDE CADD FILES AND ASCII (.XYZ) FILES OF THE EXISTING BATHYMETRY, POST-DREDGE SEDIMENT ELEVATIONS. AND RESTORED CAP ELEVATIONS. THE CONTRACTOR SHALL PROVIDE ESTIMATES FOR REMOVAL AND PLACEMENT VOLUMES, AND ACCOUNT FOR BULKING OR DENSIFICATION OF MATERIALS DUE TO HANDLING AND PLACEMENT.
- 31. JOBSITE OR NEIGHBORHOOD COMPLAINTS OF EXCESSIVE NOISE, VIBRATION, OR ODORS MUST BE COMMUNICATED WITH ENGINEER AS SOON AS POSSIBLE UPON RECEIPT OF FIRST COMPLAINT EACH PROJECT DAY. CONTRACTOR MUST HAVE CONTINGENCY PLANS FOR EXCESSIVE NOISE AND ODORS AS SUPPLIED IN THE WORK PLAN.
- 32. CONTRACTOR MAY USE PUBLIC BOAT LAUNCH ACCESS RAMP LOCATED ALONG WEST SHORE OF MASHAPAUG POND NEAR PARK LANE AND ACCESS ROAD FOR MOBILIZATION OF EQUIPMENT TO THE SITE.

- GRADING, DRAINAGE, AND EROSION CONTROL NOTES:
- POND.

- DIRECTED BY THE ENGINEER.

- COMMUNITY.

INNER COVE:

- PHASE III SOILS.
- FOR THE SPECIFIC USE.
- HANDLED SEPARATELY.
- INCHES DIAMETER MAY BE CONSIDERED AS DEBRIS.
- CONTROL IN THE OUTER COVE.
- STATE, AND FEDERAL REQUIREMENTS.
- CONSOLIDATION CELL.

1. NO VEGETATION SHALL BE DISTURBED EXCEPT AS DESCRIBED IN THE CONTRACT DOCUMENTS OR AS NECESSARY FOR GRADING PURPOSES AND ONLY AS APPROVED BY THE ENGINEER. NO HEAVY EQUIPMENT SHALL BE OPERATED OR STORED AND NO MATERIALS SHALL BE HANDLED OR STORED WITHIN THE DRIP LINES OF UNDISTURBED TREES OR WITHIN 50 FEET FROM THE LIMIT OF WETLANDS AND/OR MASHAPAUG

2. PERMANENT CONTROLS OR SURFACE STABILIZATION SHALL COMMENCE AS SOON AS PRACTICABLE BUT IN NO CASE MORE THAN 14 DAYS AFTER COMPLETION OF FILLING AND GRADING ACTIVITIES. AREAS WHICH ARE NOT TO FINAL GRADE BUT WILL NOT BE REWORKED FOR 14 CALENDAR DAYS SHALL BE TEMPORARILY SEEDED AND MULCHED AS SOON AS IT IS KNOWN WITH REASONABLE CERTAINTY THAT WORK WILL BE STOPPED FOR AT LEAST 14 CALENDAR DAYS.

CONSTRUCT TEMPORARY EROSION CONTROLS AS SHOWN ON THE DRAWINGS PRIOR TO STARTING WORK. THE SMALLEST PRACTICAL AREA OF LAND SHOULD BE EXPOSED AT ANY ONE TIME DURING CONSTRUCTION. WHEN LAND IS EXPOSED DURING CONSTRUCTION, THE EXPOSURE SHOULD BE KEPT TO THE SHORTEST PRACTICAL PERIOD OF TIME. LAND SHOULD NOT BE LEFT EXPOSED DURING THE WINTER MONTHS.

ALL DRAINAGE STRUCTURES (INCLUDING SWALES) IMPACTED BY THE CONTRACTOR'S ACTIVITIES SHALL BE INSPECTED WEEKLY AND DAILY DURING STORM EVENTS. INLET PROTECTION DEVICES SHOULD BE CLEANED OR REMOVED AND REPLACED BEFORE SIX INCHES OF SEDIMENT CAN ACCUMULATE.

5. SILT FENCE AND AUGMENTED SILT FENCE SHALL BE INSTALLED AND MAINTAINED WHERE SHOWN. ADDITIONAL PERIMETER CONTROLS SHALL BE ADDED AS REQUIRED BY THE ENGINEER PRIOR TO ANY ON SITE DISTURBANCE OF EXISTING SURFACE MATERIAL. SILT FENCE SHALL BE MAINTAINED DURING AND AFTER CONSTRUCTION TO REMOVE SEDIMENT FROM RUNOFF WATER AND FROM LAND UNDERGOING CONSTRUCTION. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN ITS DEPTH REACHES 50% OF THE HEIGHT OF THE FENCE. REPLACE DAMAGED SILT BARRIERS AS REQUIRED BY THE ENGINEER AND IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. WHERE POSSIBLE, NATURAL DRAINAGE WAYS SHOULD BE UTILIZED AND LEFT OPEN TO REMOVE CLEAN EXCESS SURFACE WATER.

ALL LOCATIONS OF TEMPORARY EROSION CONTROL DEVICES SHALL BE SUBJECT TO ADJUSTMENT AS DIRECTED BY THE ENGINEER, AND SHALL BE REPLACED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

7. TEMPORARY EROSION AND SEDIMENT CONTROL BMPS (INCLUDING ALL CONSTRUCTION ENTRANCES) SHALL BE REMOVED WITHIN 30 CALENDAR DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY BMPS ARE NO LONGER NEEDED AS DETERMINED BY THE ENGINEER. TRAPPED SEDIMENT SHALL BE REMOVED OR STABILIZED ON SITE. DISTURBED SOIL RESULTING FROM REMOVAL OF BMPS OR VEGETATION SHALL BE PERMANENTLY STABILIZED (80% VEGETATION DENSITY).

CONTRACTOR SHALL VERIFY EXISTING ELEVATIONS AND INVERTS PRIOR TO BEGINNING WORK. ALL SLOPES SHALL HAVE A 3:1 MAXIMUM SLOPE AND A 20:1 MINIMUM SLOPE AS SHOWN ON THE DRAWINGS OR AS

EXISTING CONTOUR LINES AND SPOT ELEVATIONS ARE THE RESULT OF FIELD SURVEY, GIS AND LIDAR DATA. SHOULD THE CONTRACTOR HAVE ANY QUESTIONS OF THEIR INTENT OR ANY PROBLEMS WITH CONTINUITY OF GRADES, THE ENGINEER SHALL BE CONTACTED PRIOR TO BEGINNING WORK.

10. STABILIZE ALL STOCKPILES AND ALL OTHER AREAS OF THE SITE THAT SHALL REMAIN UNDISTURBED FOR 14 CALENDAR DAYS OR MORE. TO ENSURE NO TARPS BECOME WIND BORNE AND ENTER AMTRAK AREAS (TRACKS OR SUBSTATION) ALL TARPS USED ON SITE MUST BE SECURED PROPERLY.

11. CONTRACTOR SHALL NOT LEAVE ANY OPEN HOLES WITH A DROP GREATER THAN 12" OVERNIGHT.

12. STORMWATER DRAINAGE SHALL BE CONTROLLED ONSITE, SUCH THAT THERE IS NO CHANNELIZED FLOW OF RUNOFF TOWARDS THE POND.

13. STABILIZED CONSTRUCTION EXITS SHALL BE INSTALLED AS SHOWN ON THE DRAWINGS AND WHEREVER CONSTRUCTION TRAFFIC ENTERS AND LEAVES THE SITE. EXISTING CONSTRUCTION EXITS SHALL BE INSPECTED AND MAINTAINED TO REFLECT REQUIREMENTS AS STATED IN THE CONTRACT DOCUMENTS.

14. THE EROSION CONTROL DEVICES SHOWN ON THE DRAWINGS AND AS SPECIFIED IN THE CONTRACT DOCUMENTS REPRESENT THE MINIMUM REQUIRED FOR EROSION CONTROL. THE CONTRACTOR SHALL ADD TO THESE DEVICES ANY AND ALL MEASURES AS REQUIRED BY THE ENGINEER TO EFFECTIVELY PREVENT EROSION AND MIGRATION OF SEDIMENT FROM THE WORK AREA.

15. ALL SURFICIAL FILL MATERIALS AND COVE SEDIMENTS TO BE CONSOLIDATED SHALL BE MANAGED AND STOCKPILED ONLY WITHIN THE PROPOSED LIMITS OF CAPPING. NO IMPACTED MATERIALS SHALL BE STOCKPILED OUTSIDE THE PROPOSED LIMITS OF THE CAP.

16. ALL INTERNAL HAUL TRUCKS CONSOLIDATING IMPACTED MATERIAL SHALL BE DECONTAMINATED PRIOR TO ACCESSING AREAS OUTSIDE OF THE LIMITS OF DISTURBANCE.

17. PRIVACY PANELS SHALL BE INSTALLED AND MAINTAINED ALONG THE PERIMETER CHAIN LINK FENCE AS SHOWN IN THE CONTRACT DOCUMENTS TO MINIMIZE DUST AND DISTURBANCE TO THE SURROUNDING

PROPOSED STORMWATER MANAGEMENT DISCHARGES.

MATERIALS USED FOR ACCESS ROAD AND SEDIMENT COVER MUST BE IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. ANY SEDIMENT OR SOIL REMOVAL REQUIRED TO CONSTRUCT OR MAINTAIN THE ACCESS ROAD SHALL BE MANAGED IN THE SAME MANNER AS INNER COVE SEDIMENT OR

TEMPORARY ACCESS ROAD SHALL BE REMOVED AFTER SEDIMENT REMOVAL AND INNER COVE CAP INSTALLATION IS COMPLETE. ALL SEDIMENT, WETLAND, AND SOIL AREAS IMPACTED BY THE ACCESS ROAD SHALL BE RESTORED ACCORDING TO SPECIFICATIONS FOR THE AREAS. CONTRACTOR MAY REUSE MATERIALS FROM ACCESS ROAD WITH ENGINEER'S APPROVAL AND IF MATERIALS MEET SPECIFICATIONS

DEBRIS AND TRASH ENCOUNTERED IN INNER COVE SHALL BE REMOVED AND MANAGED ACCORDING TO THE WASTE MANAGEMENT SPECIFICATION. DEBRIS SHOULD BE CONSIDERED AS NON-SEDIMENT MATERIALS SUCH AS BROKEN CONCRETE, TIMBERS, AND TRASH. VEGETATION, ROOTS, AND TREE LIMBS MAY BE

INNER COVE SEDIMENTS INCLUDE PARTICULATES FROM FORMER METALS MANUFACTURING, WITH PARTICLE DIAMETERS LESS THAN 3 INCHES. IF ENCOUNTERED, METALLIC OR STONE PARTICLES LARGER THAN 3

USE OF A TEMPORARY DAM AND SILT CURTAIN IS REQUIRED TO GREATLY REDUCE LOSSES OF SUSPENDED SOLIDS FROM THE INNER COVE DURING OR AFTER SEDIMENT REMOVAL TO THE OUTER COVE. ALTERNATIVE METHODS MUST DEMONSTRATE A SIMILAR DEGREE OF ACCESS TO THE INNER COVE AND TURBIDITY

DEWATERING SHALL BE PERFORMED IN A MANNER THAT DOES NOT SIGNIFICANTLY DELAY REMOVAL OR PLACEMENT IN THE CONSOLIDATION CELL. HOLDING TIME OF SEDIMENTS IN THE DEWATERING AREA SHALL NOT EXCEED 14 DAYS. ANY USAGE OF ADMIXTURES OR COAGULANTS/FLOCCULANTS MUST MEET LOCAL.

CONTRACTOR SHALL MONITOR PROGRESS OF SEDIMENT REMOVAL. DEWATERING, AND PLACEMENT IN CONSOLIDATION CELL. CONTRACTOR SHALL REPORT CUMULATIVE VOLUMES REMOVED AND PLACED IN EACH UNIT AT A MINIMUM FREQUENCY OF ONCE PER WEEK AFTER SEDIMENT REMOVAL, OVER THE PERIOD IN WHICH REMOVAL HAS BEGUN, AND PRIOR TO THE PLACEMENT OF THE FINAL LOAD TO THE

WATER MANAGEMENT IN THE DEWATERING AREA ALLOWS FOR INFILTRATION, BUT NOT RUNOFF OF WATER FROM SEDIMENT DEWATERING. EROSION CONTROL MEASURES MUST BE USED TO PREVENT EROSION OF PLACED SEDIMENTS TO AREAS OUTSIDE OF THE DEWATERING AREA. IF THE RATE OF INFILTRATION IS NOT ADEQUATE TO MEET THE WATER LOADINGS FROM DEWATERING, THE RATE OF DREDGING SHALL BE DECREASED UNTIL THE RATE OF INFILTRATION IS ACCEPTABLE. FRAC TANK STORAGE MAY ALSO BE USED TO BUFFER FLOW RATES AS NECESSARY DURING PERIODS OF HEAVIER DEWATERING OR RAINFALL EVENTS.

SEDIMENT REMOVAL IS EXPECTED TO BE PERFORMED WITH MECHANICAL DREDGING. ALTERNATIVE METHODS FOR REMOVAL MUST MEET APPROVAL OF ENGINEER. ACCESS ROAD MAY PROVIDE ONLY PARTIAL ACCESS TO INNER COVE AND CONTRACTOR IS RESPONSIBLE FOR DEVELOPING MEANS AND METHODS TO COMPLETE REMOVAL AND GAIN ACCESS TO ALL AREAS OF DREDGING. ALTHOUGH THE POND WILL BE LOWERED OVER A SIGNIFICANT PORTION OF THE INNER COVE AREA, SOME SEDIMENT AREAS ARE EXPECTED TO BE SOFT AND MAY BE UNABLE TO SUPPORT EXCAVATORS OR GRADERS. USE OF TIMBER MATS OR SPUDS ARE ACCEPTABLE, PROVIDED MATERIALS AND EQUIPMENT USED ARE CLEAN AND ARE REMOVED PRIOR TO COMPLETION OF INNER COVE PHASE OF WORK.

SUGGESTED CONSTRUCTION SEQUENCE:

1. ESTABLISH VERTICAL AND HORIZONTAL CONTROL.

- 2. INSTALL EROSION AND SEDIMENTATION CONTROL DEVISES AS SHOWN AND AS REQUIRED PRIOR TO SITE DISTURBANCE.
- 3. CLEAR AND GRUB TO THE LIMITS SHOWN ON THE PLANS AS DEPICTED BY THE 'LIMIT OF DISTURBANCE' LINE.

#### PARCEL C

- 1. REGRADE EXISTING SOILS TO PREPARE THE SUBGRADE ELEVATIONS AS SHOWN.
- 2. INSTALL CAPPING MATERIALS FOR COMPLETION OF THE PARCEL C UPLAND SOIL CAP.
- 3. SEED AND STABILIZE THE PARCEL C CAP.
- INNER COVE
- 1. PREPARE PARCEL C-1 UPLAND AREA FOR DEWATERING TREATMENT SYSTEM AND SEDIMENT PROCESSING. IMPLEMENT WILD LIFE MANAGEMENT PLAN THEN INSTALL
- TURBIDITY CURTAIN. 2. INSTALL SHORING AND DEWATERING SYSTEM (PER CONTRACTOR SUBMITTED AND ENGINEER APPROVED METHOD).
- 3. INSTALL TEMPORARY GRAVEL ACCESS ROAD TO INNER COVE.
- COMPLETE INNER COVE REMOVAL OF IMPACTED SEDIMENTS.
- COMPLETE PROCESSING/DEWATERING/STABILIZATION OF DREDGED SEDIMENT.
- CONSOLIDATE PROCESSED SEDIMENT WITHIN PROPOSED LIMITS AS SHOWN.
- 7. INSTALL CAPPING MATERIALS FOR COMPLETION OF THE INNER COVE SEDIMENT SOIL
- 8. REMOVE SHORING PER APPROVED METHOD FOR INNER COVE RESTORATION AND REMOVE TURBIDITY CURTAIN.
- 9. INSTALL CAPPING MATERIALS FOR COMPLETION OF THE CONSOLIDATED SEDIMENT SOIL CAP.
- 10. SEED AND STABILIZE THE CONSOLIDATED SEDIMENT CAP.

## PARCEL C-1

- REMOVE ALL INNER COVE SEDIMENT DEWATERING AND PROCESSING MATERIALS.
- 2. REGRADE EXISTING SOILS TO PREPARE THE SUBGRADE ELEVATIONS
- 3. INSTALL CAPPING MATERIALS FOR COMPLETION OF THE PARCEL C-1 SOIL CAP
- 4. SEED AND STABILIZE THE PARCEL C-1 CAP.

5. SITE RESTORATION AND CLEAN-UP.

PLAN REFERENCES:

- 1. PLAN PREPARED BY THE U.S. ARMY CORPS OF ENGINEERS, ENTITLED 'SEWER SYSTEM' DATED SEPTEMBER 1943 AND REVISED OCTOBER 1943 (AS-BUILT) ORIGINAL SCALE: 1" = 100'
- SELECTED SITE FEATURES DIGITIZED FROM DIVERSIFIED TECHNOLOGY CONSULTANTS' FIGURE 7 TITLED 'BATTERY HAMILTON AND BORING/SAMPLING LOCATIONS' DATED AUGUST 8, 1999 FROM THE 'RESEARCH AND ASSESSMENT STUDY' DATED OCTOBER 2000.
- WETLAND DELINEATION COMPLETED BY VANASSE HANGEN BRUSTLIN, INC. (VHB) DATED MAY 2004.
- WETLAND DELINEATION REVIEWED IN THE FIELD BY RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT, DATED AUGUST 2011.
- TOPOGRAPHIC (1-FOOT CONTOURS) AND LOCATION SURVEY COMPLETED BY CABCO CONSULT, INC.. PLAN TITLED 'TOPOGRAPHIC PLAN OF LAND' DATED MAY 24, 2007.
- PARCEL B TOPOGRAPHY AND FIELD SURVEY COMPLETED BY EDWARD ROWSE ARCHITECTS. PLAN TITLED 'PROVIDENCE HIGH SCHOOL, GORHAM MILLS, PROVIDENCE RHODE ISLAND, SITE PLAN DATED 2007.
- PARCEL A TOPOGRAPHY AND FIELD SURVEY COMPLETED BY VANASSE HANGEN BRUSTLIN, INC. (VHB). PLAN TITLED 'RETAIL DEVELOPMENT SITE PLAN' DATED 2001.
- 18. EROSION CONTROL MATTING SHALL BE INSTALLED ON ALL SLOPES 3:1 OR GREATER AND BELOW ALL 8. BATHYMETRIC CONTOURS OF MASHAPAUG COVE AND MASHAPAUG POND COMPLETED BY TG&B MARINE DATED DECEMBER, 2011.
  - AS-BUILT SURVEY OF PHASE I WORK COMPLETED BY E.T.&L. DATED NOVEMBER 2012.

## ADDDEVIATIONS

MAX

MH

MIN

MW

NTS

OD

ΟZ

PPM

PVC

SB

SF

TYP

ABBREVIATIONS:	
AMTRAK	NATIONAL RAILROAD PASSENGER CORPORATION
APPROX	APPROXIMATELY
BMPs	BEST MANAGEMENT PRACTICES
СВ	CATCH BASIN
Ē	CENTER LINE
CONC	CONCRETE
DIA	DIAMETER
Ø	DIAMETER
E	EASTING, EAST
ELEV	ELEVATION
8	FEET
GPM	GALLONS PER MINUTE
LLDPE	LINEAR LOW DENSITY POLYETHYLENE
D	IDENTIFICATION, INSIDE DIAMETER
	INCHES
LF	LINEAR FEET
5712712712712712 I	

MAXIMUM

MANHOLE

MINIMUM

MONITORING WELL

NORTHING, NORTH

OUTSIDE DIAMETER

PARTS PER MILLION

POLYVINYL CHLORIDE

NOT TO SCALE

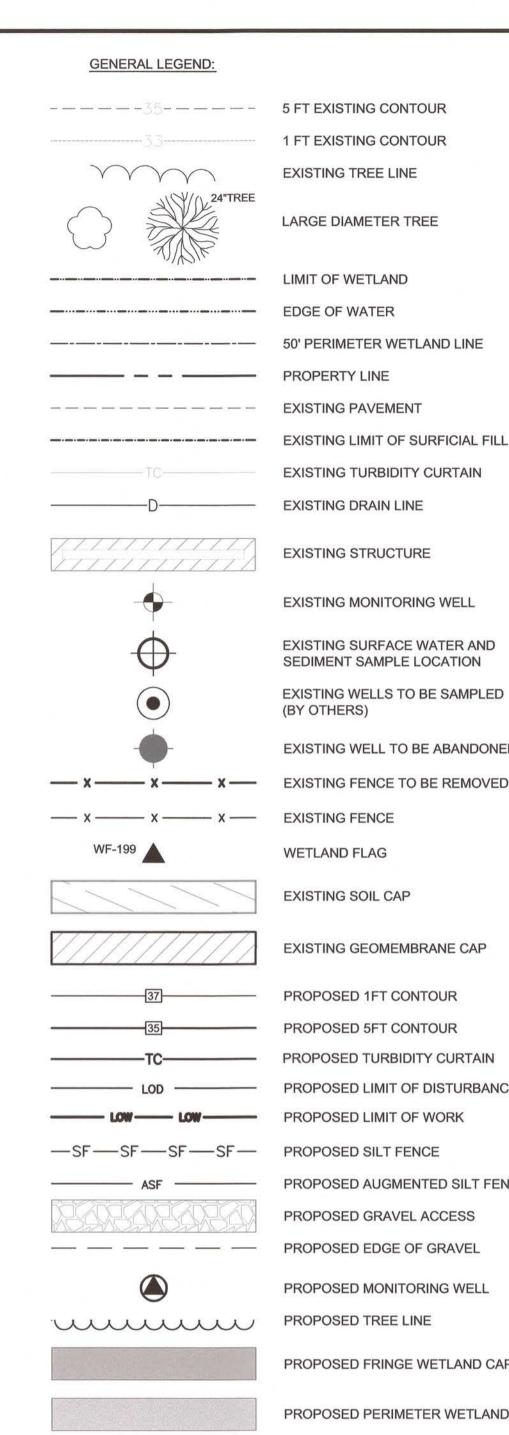
SOIL BORING

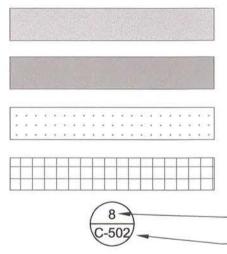
SQUARE FEET

TYPICAL

OUNCE

NARRAGANSETT BAY COMMISSION





5 FT EXISTING CONTOU
I FT EXISTING CONTOU
EXISTING TREE LINE

LARGE DIAMETER TREE

LIMIT OF WETLAND

50' PERIMETER WETLAND LINE

EXISTING TURBIDITY CURTAIN

EXISTING STRUCTURE

EXISTING MONITORING WELL

EXISTING SURFACE WATER AND SEDIMENT SAMPLE LOCATION EXISTING WELLS TO BE SAMPLED

EXISTING WELL TO BE ABANDONED

EXISTING SOIL CAP

EXISTING GEOMEMBRANE CAP

PROPOSED 1FT CONTOUR PROPOSED 5FT CONTOUR PROPOSED TURBIDITY CURTAIN — PROPOSED LIMIT OF DISTURBANCE PROPOSED AUGMENTED SILT FENCE PROPOSED GRAVEL ACCESS

> PROPOSED MONITORING WELL PROPOSED TREE LINE

PROPOSED FRINGE WETLAND CAP

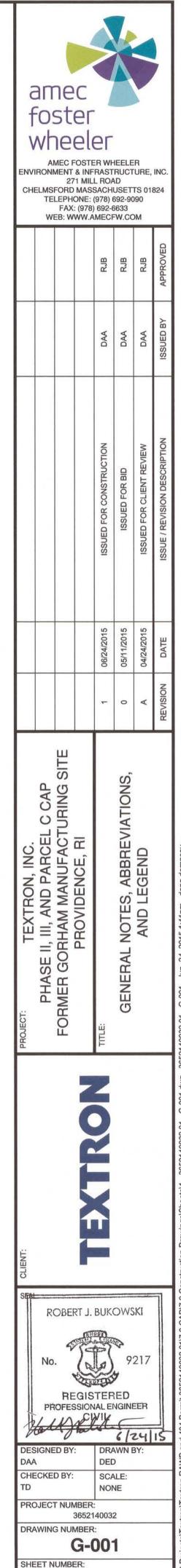
PROPOSED PERIMETER WETLAND CAP

PROPOSED UPLAND CAP

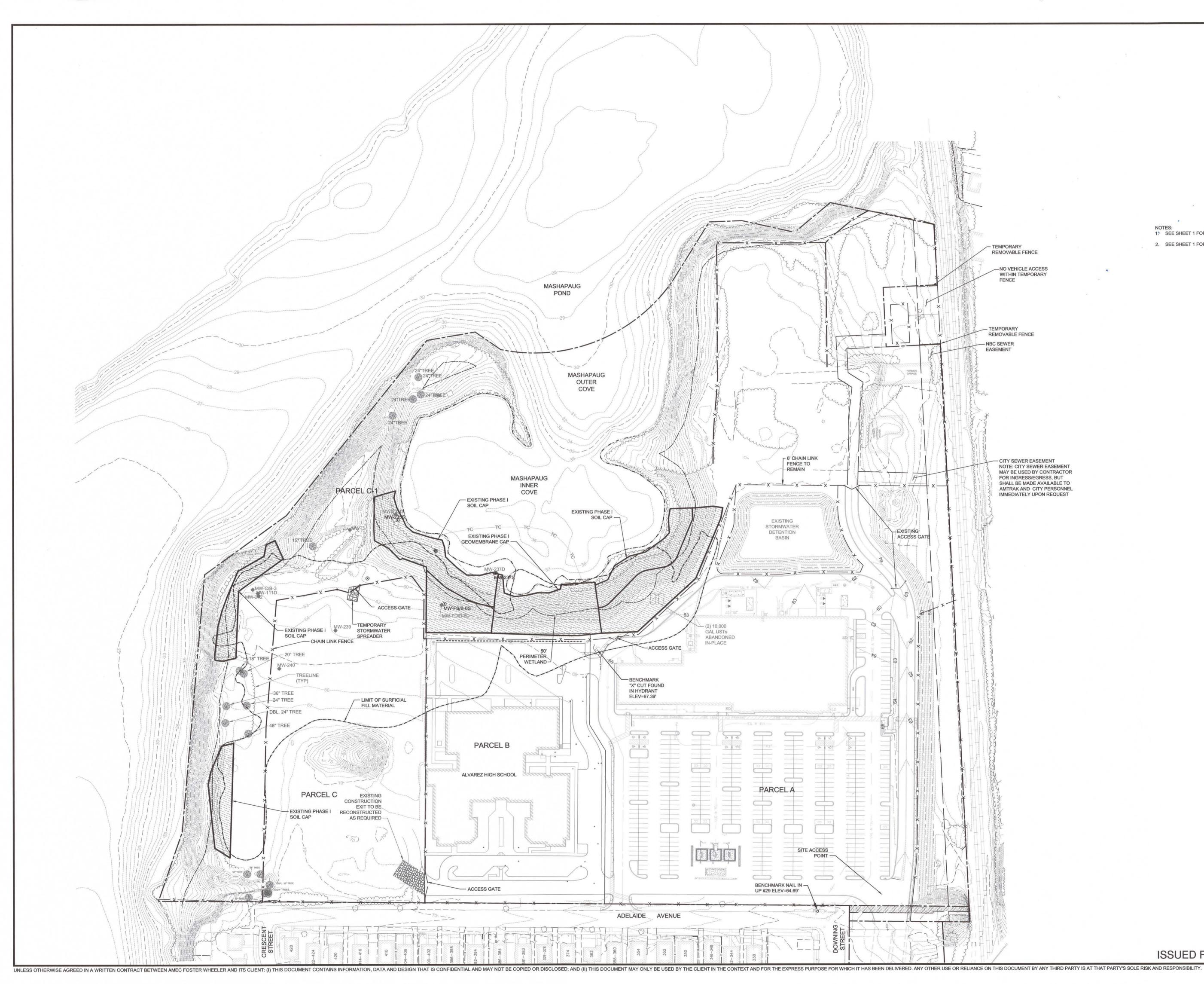
PROPOSED INNER COVE CAP

PROPOSED EROSION CONTROL MATTING FOR SLOPES 3:1

DETAIL NUMBER SHEET NUMBER

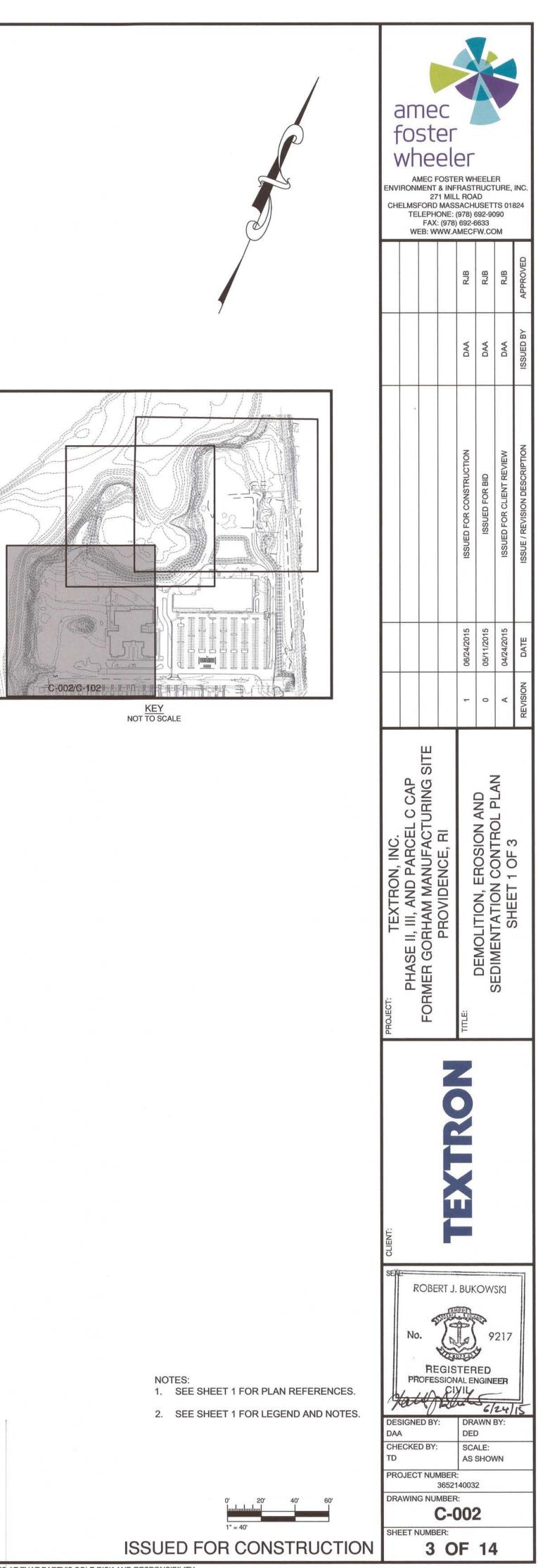


**OF** 14

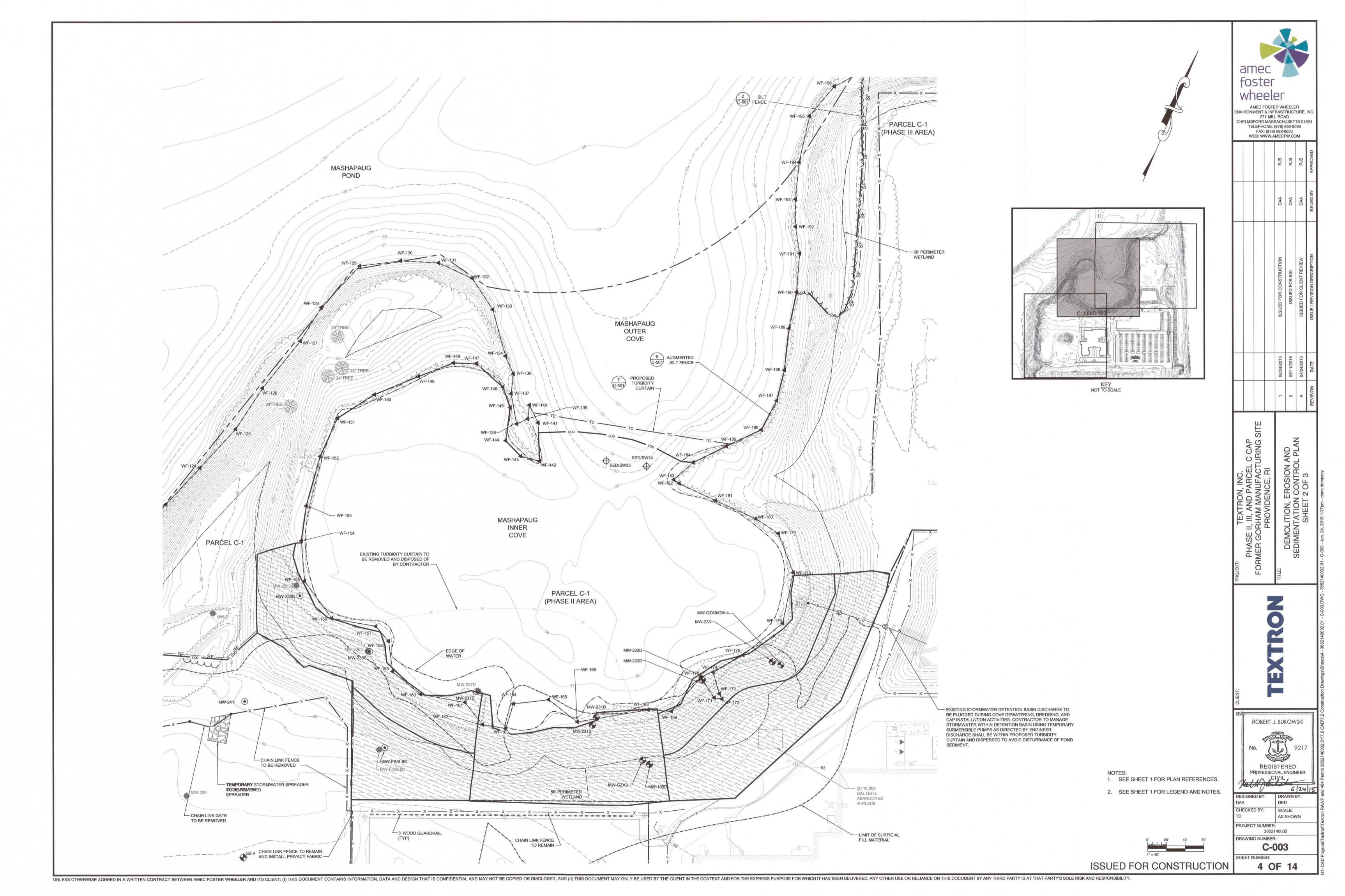


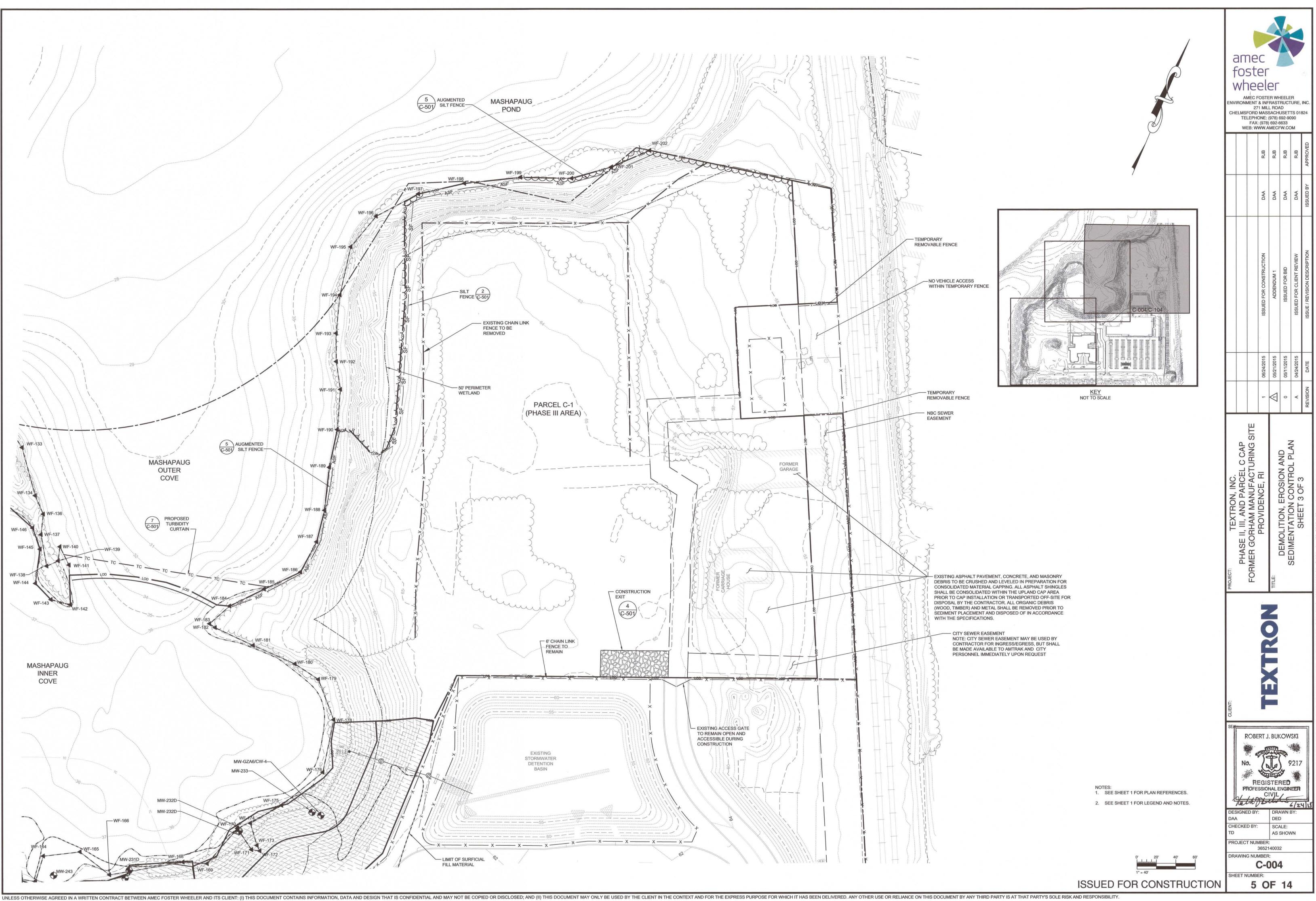
<image/>	CITY SEWER EASEMENT MAY BE USED BY CONTRACTOR FOR INGRESS/EGRESS, BUT SHALL BE MADE AVAILABLE TO AMTRAK AND CITY PERSONNEL IMMEDIATELY UPON REQUEST			REMOVABLE FENCE NO VEHICLE ACCESS WITHIN TEMPORARY FENCE TEMPORARY	NOTES: 1. SEE SHEET 1 FOR PLAN REFERENCES. 2. SEE SHEET 1 FOR LEGEND AND NOTES.		
SEAL ROBERT No. REG PROFESSION DESIGNED BY: DAA CHECKED BY: TD PROJECT NUMBER 365 DRAWING NUMBER	PROJECT: TEXTRON, INC. PHASE II, III, AND PARCEL C CAP FORMER GORHAM MANUFACTURING SITE PROVIDENCE, RI						ENVIRONMENT & II 271 M CHELMSFORD MA TELEPHONE FAX: (97
2140032	TITLE: EXISTINO		06/24/2015 05/11/2015 04/24/2015	ISSUED FOR CONSTRUCTION ISSUED FOR BID ISSUED FOR CLIENT REVIEW	DAA DAA DAA	RJB RJB RJB	LEC IFER WHEELER IFRASTRUCTURE, IN ILL ROAD SSACHUSETTS 0182 SSACHUSETTS 0182 (978) 692-9090 8) 692-6633 .AMECFW.COM
		REVISION	DATE	ISSUE / REVISION DESCRIPTION	ISSUED BY	APPROVED	- 1

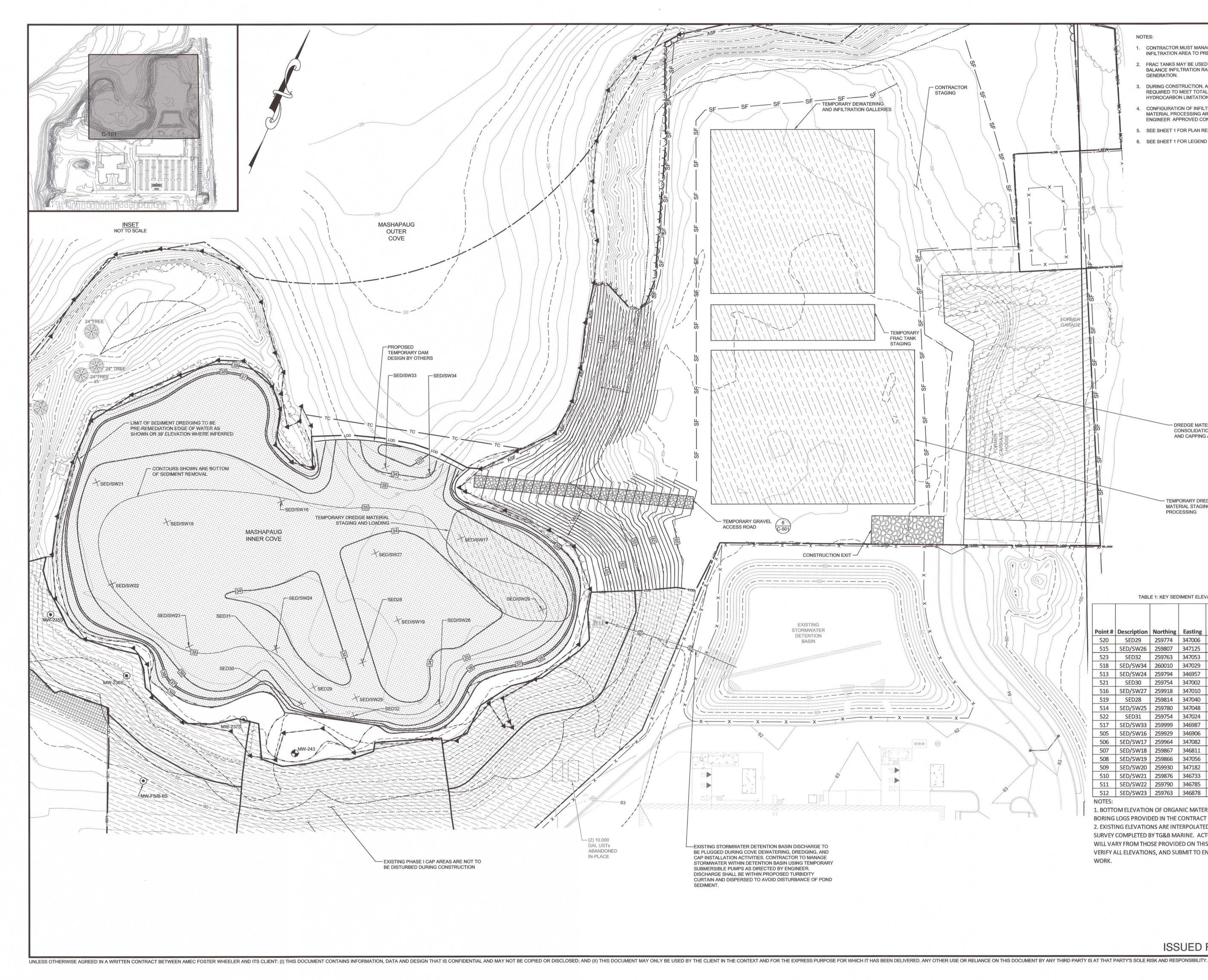


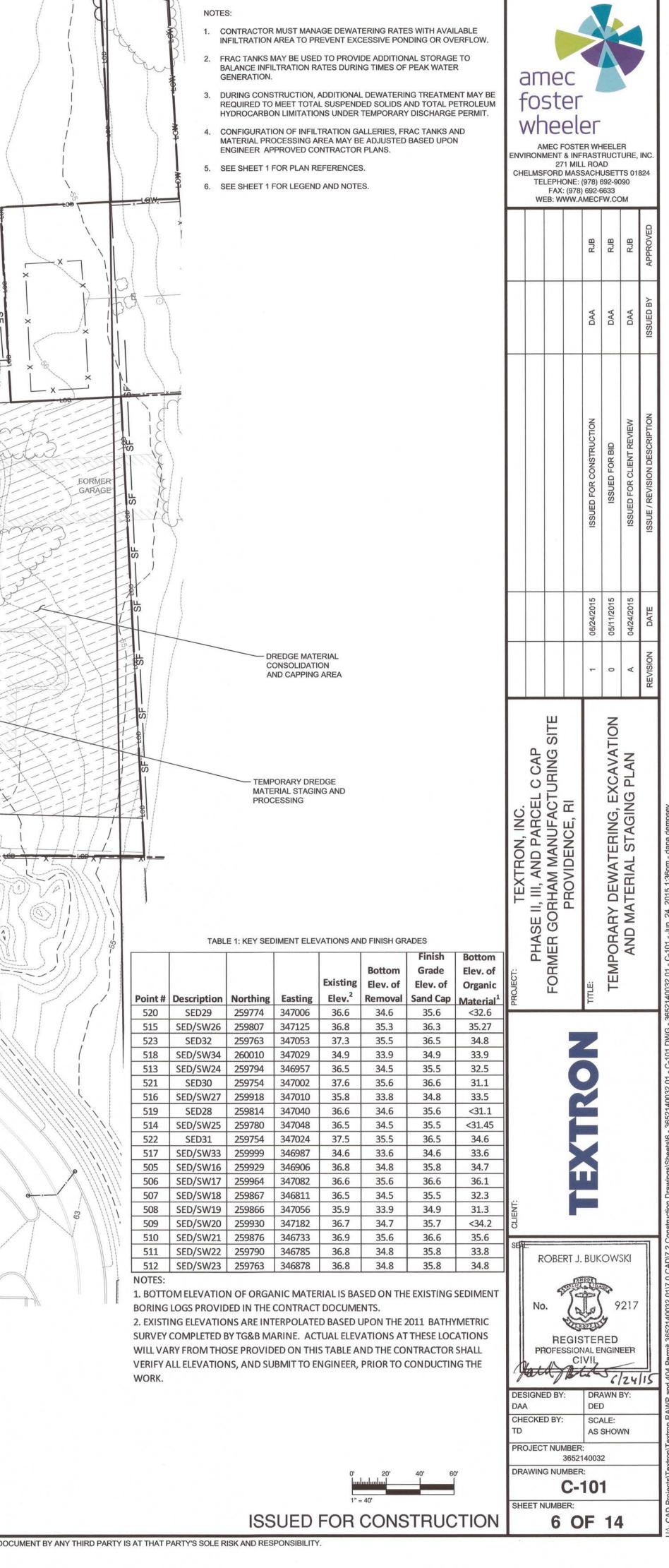


CAD Projects/Textron/Textron RAWP and 404 Permit 3652140032.01/7.0 CAD/7.2 Construction Drawings/Sheets/3 - 3652140032.01 - C-002.DWG - 3652140032.01 - C-002. Jun. 24, 2015 1:45pm - dana.demps



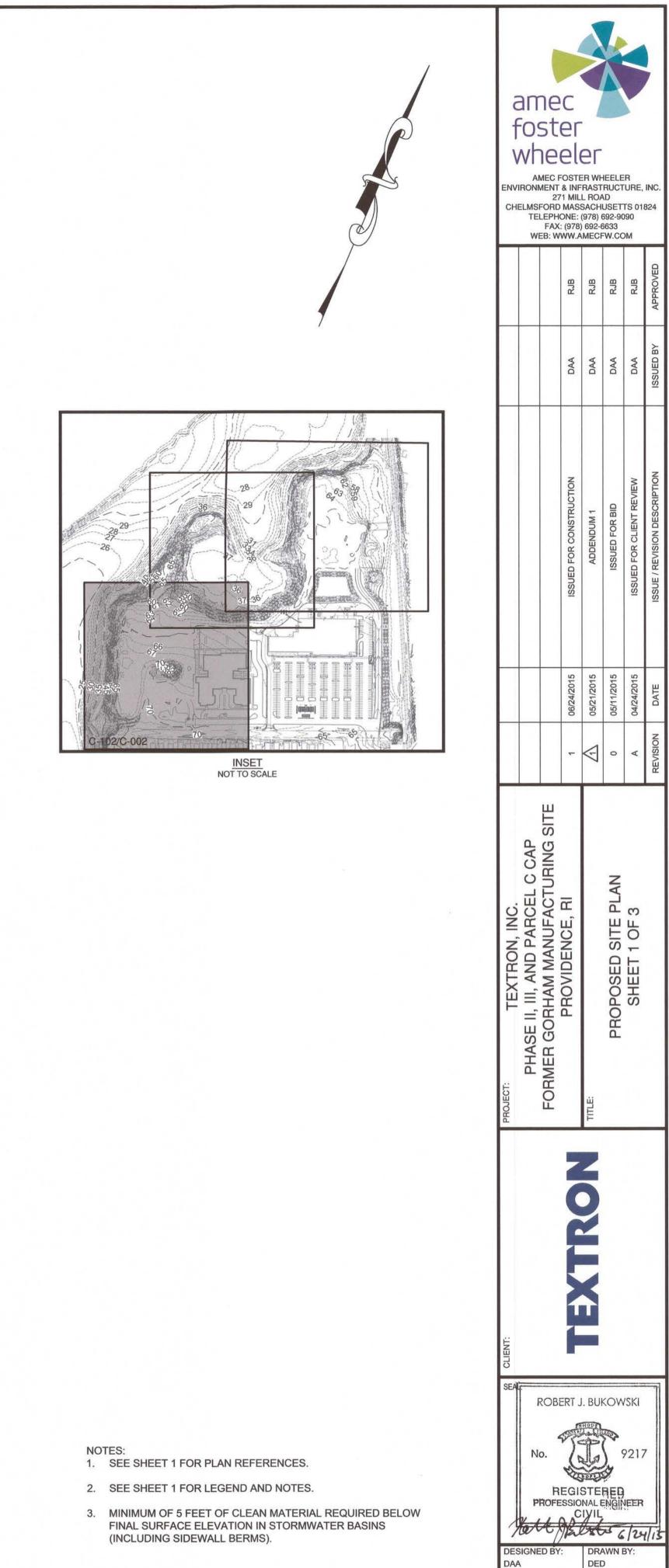






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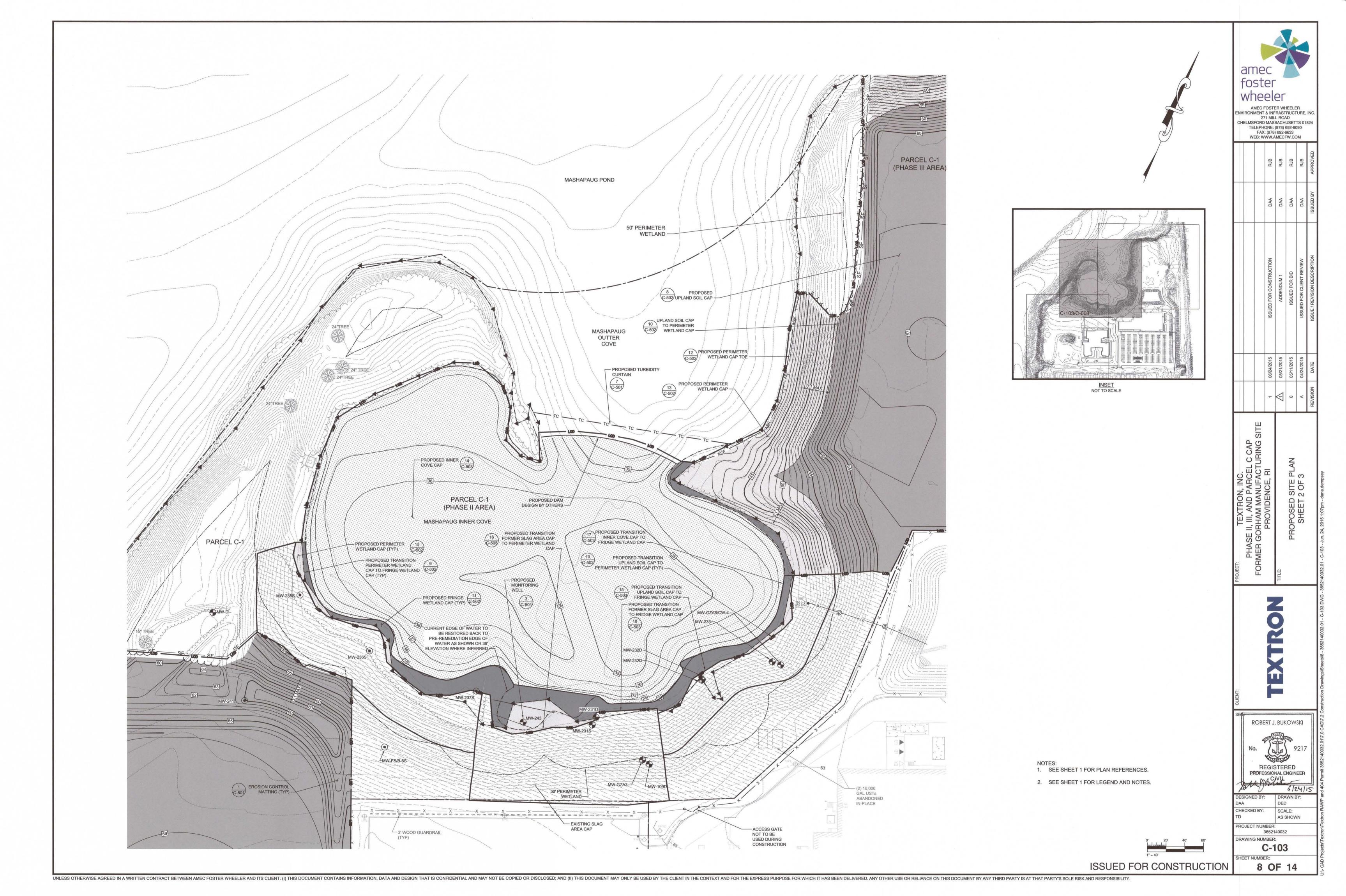
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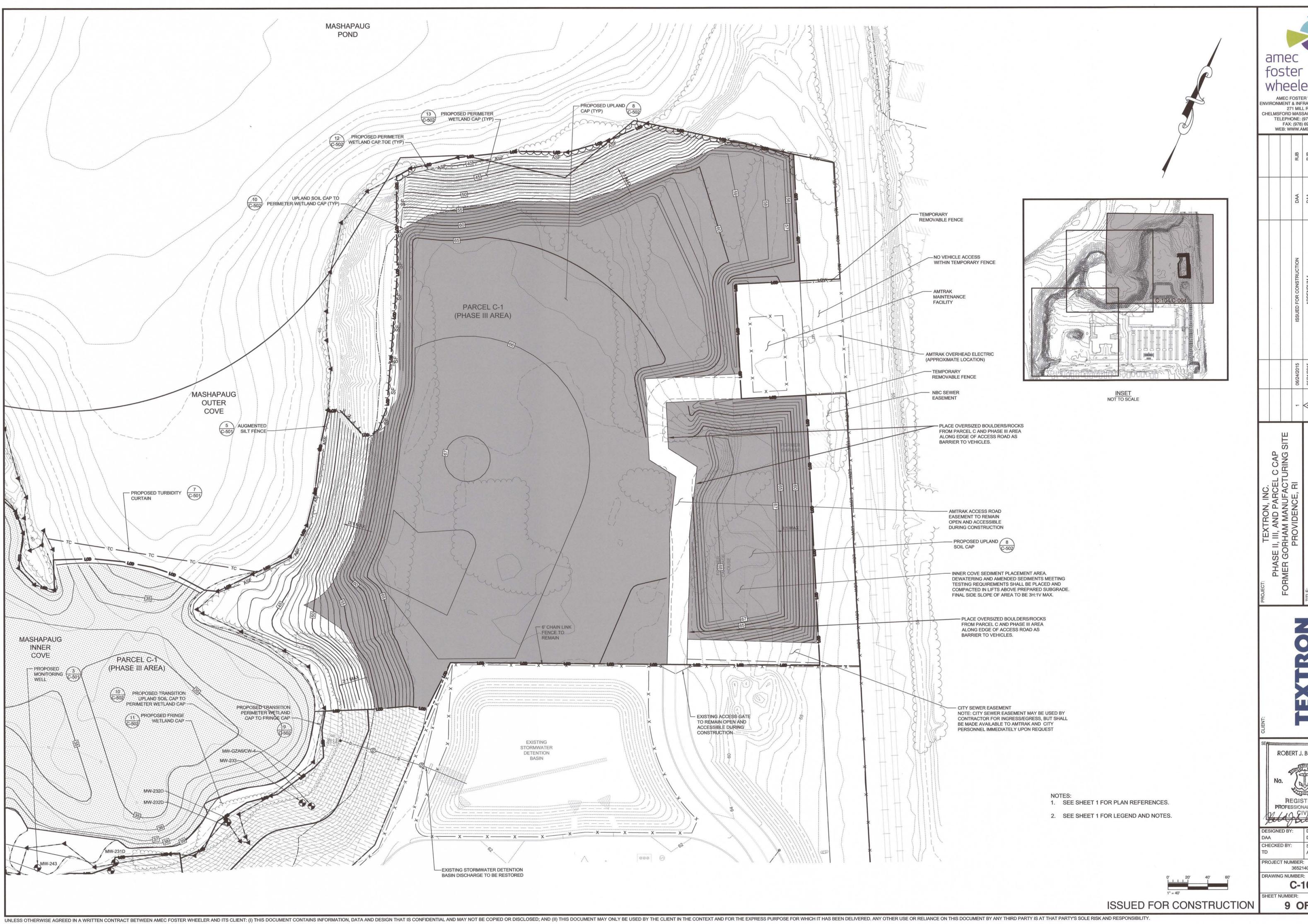
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amec foster wheeler AMEC FOSTER WHEELER ENVIRONMENT & INFRASTRUCTURE, IN 271 MILL ROAD CHELMSFORD MASSACHUSETTS 01824 TELEPHONE: (978) 692-9090 FAX: (978) 692-6633 WEB: WWW.AMECFW.COM RJB RJB RJB  $\leq$ ш S C CAP Z N, INC. PARCEI ANUFACT NCE, RI പന ЩU S S III, AND III, AND I IEET ( 5 TE PHASE II, II IMER GORH. Ö 0 **ROBERT J. BUKOWSKI** dp. No. alla Clain REGISTERED PROFESSIONAL ENGINEER Kald Site 56/24/15 DESIGNED BY: DRAWN BY: DED

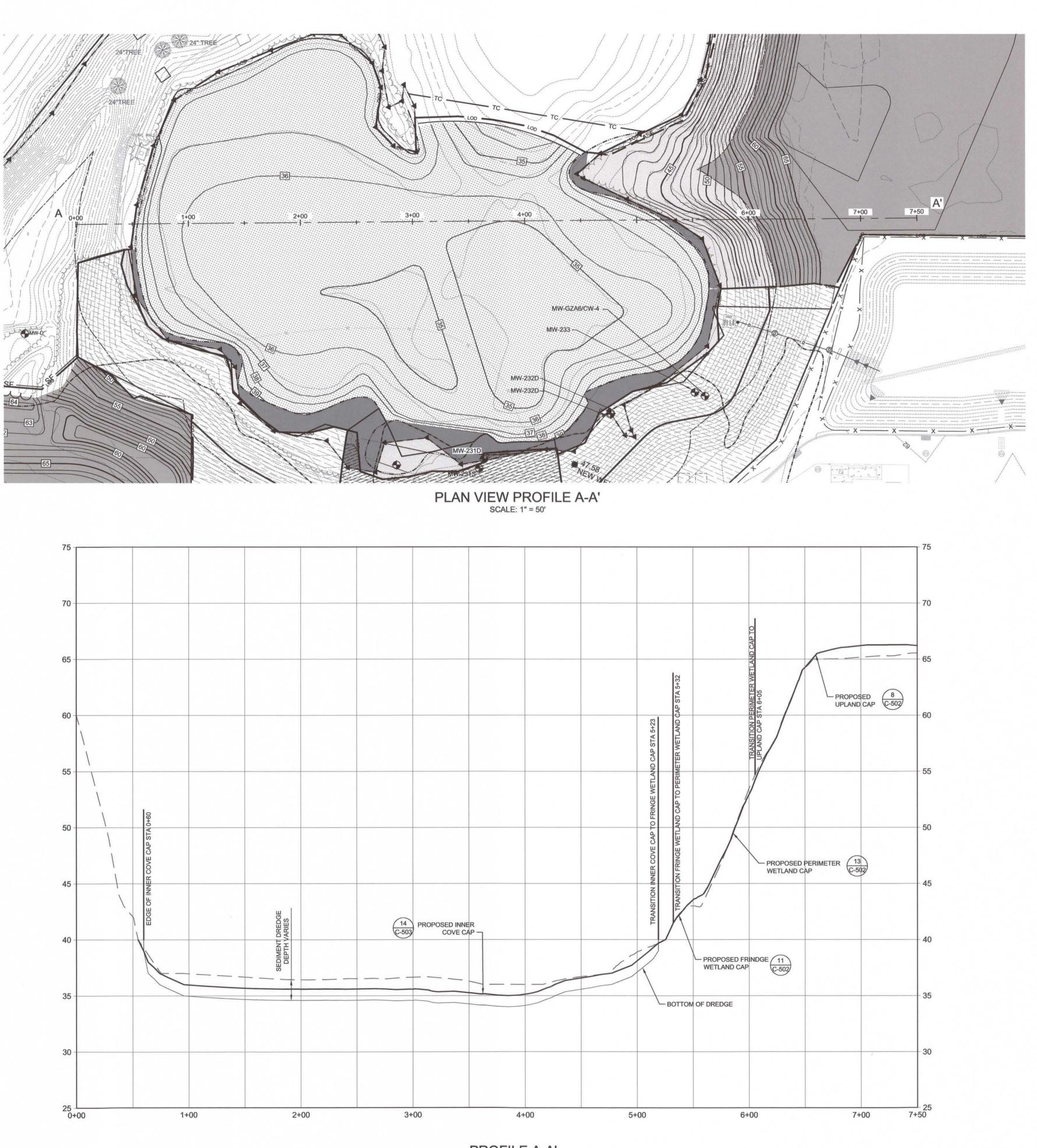
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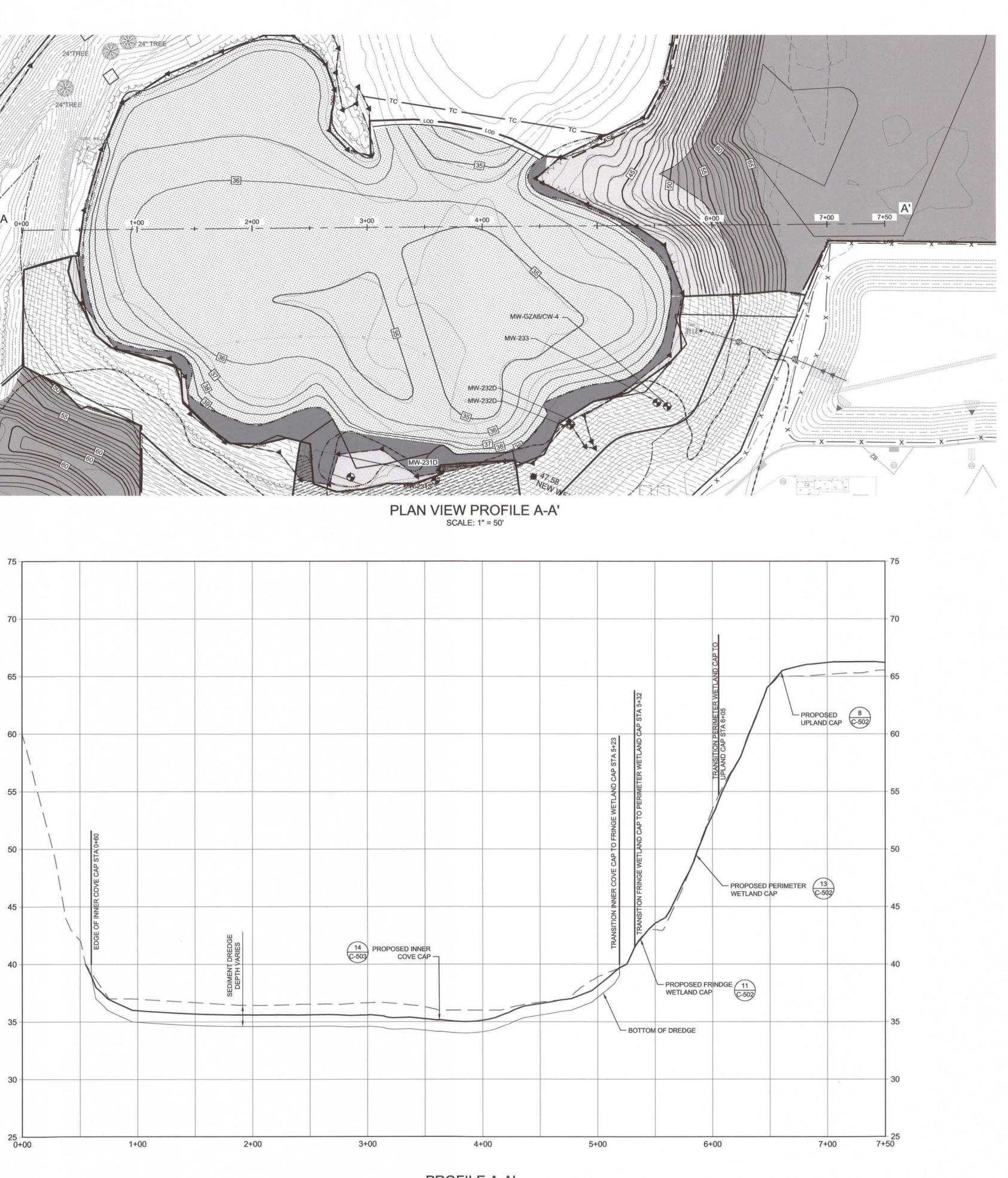
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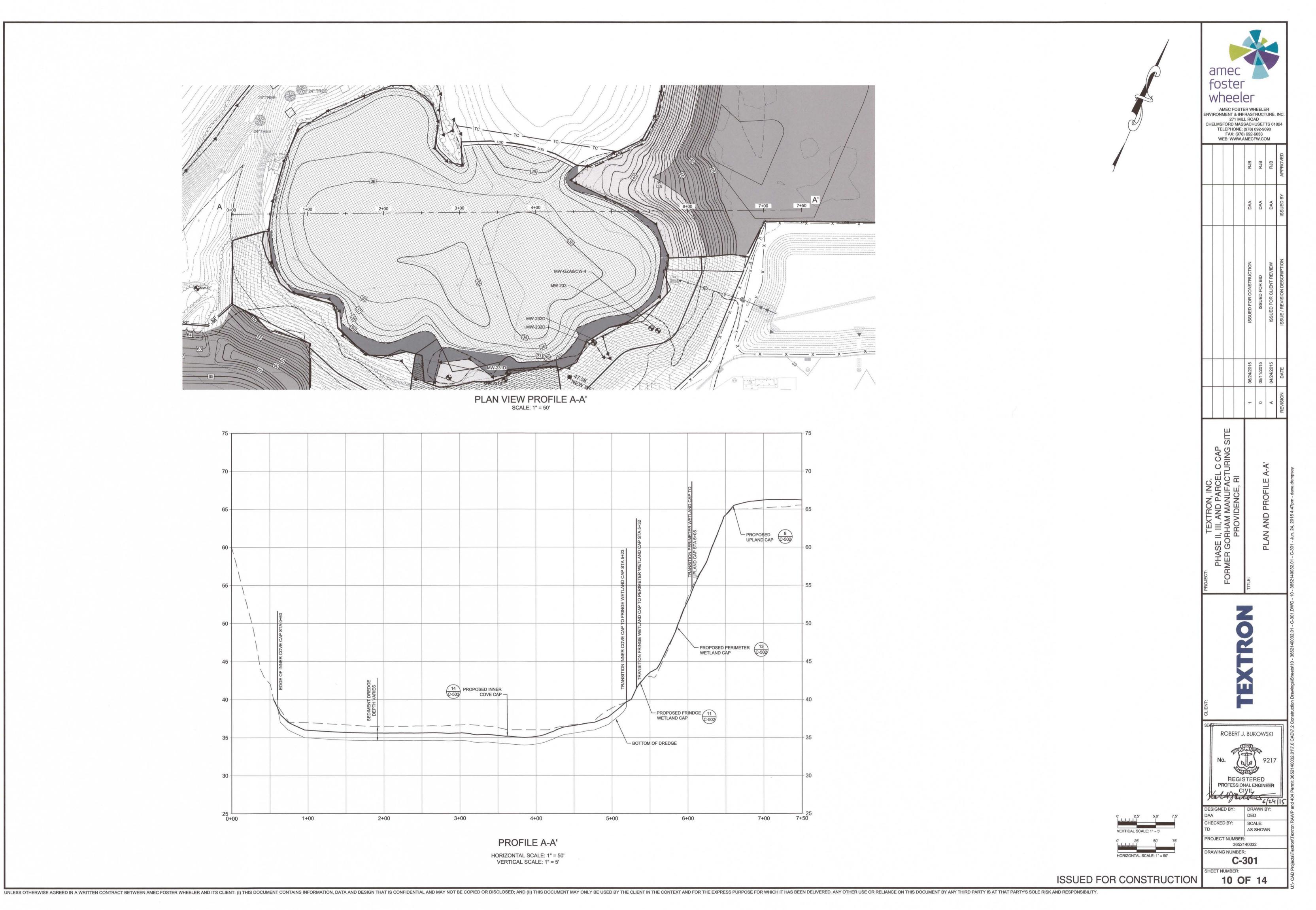
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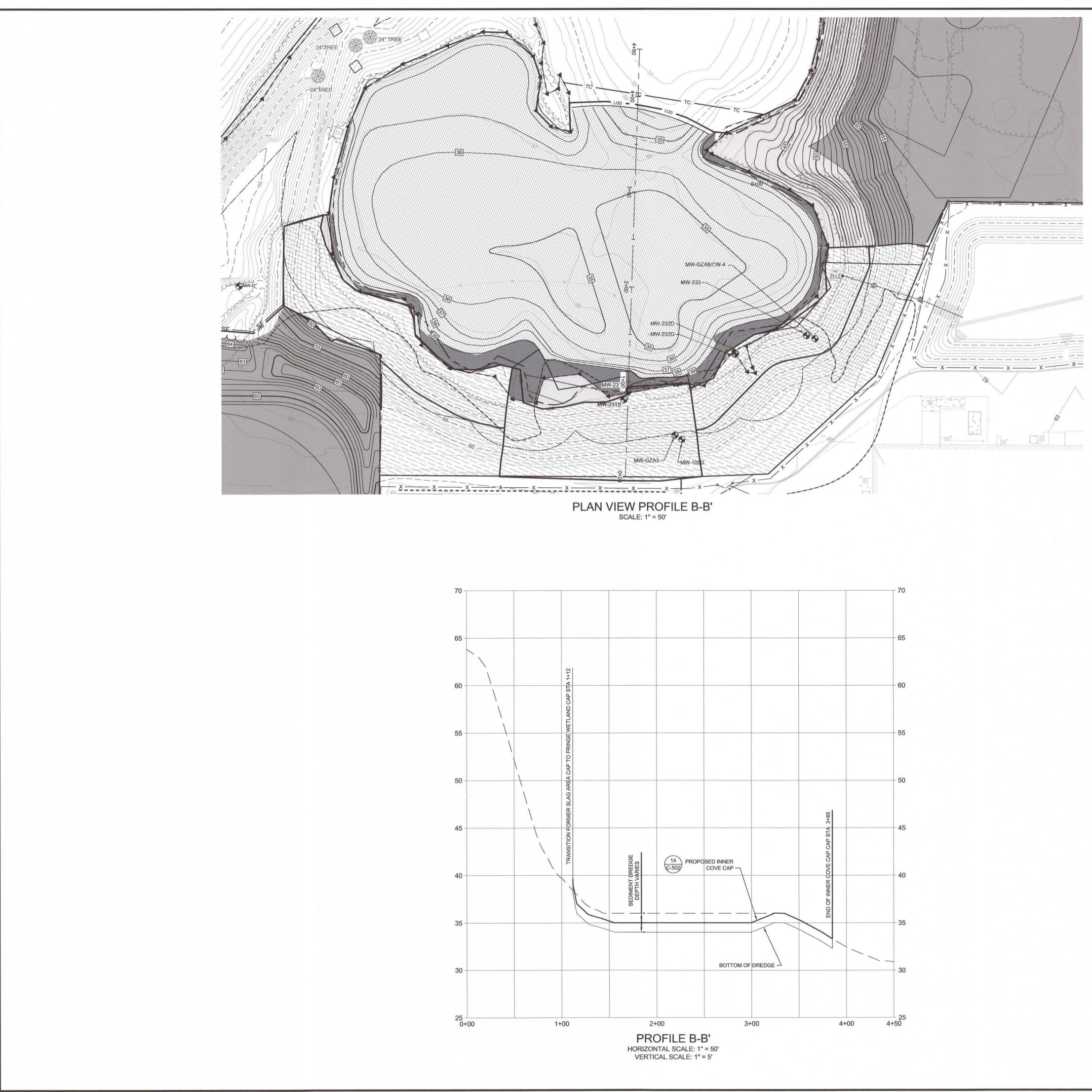




**PROFILE A-A'** 

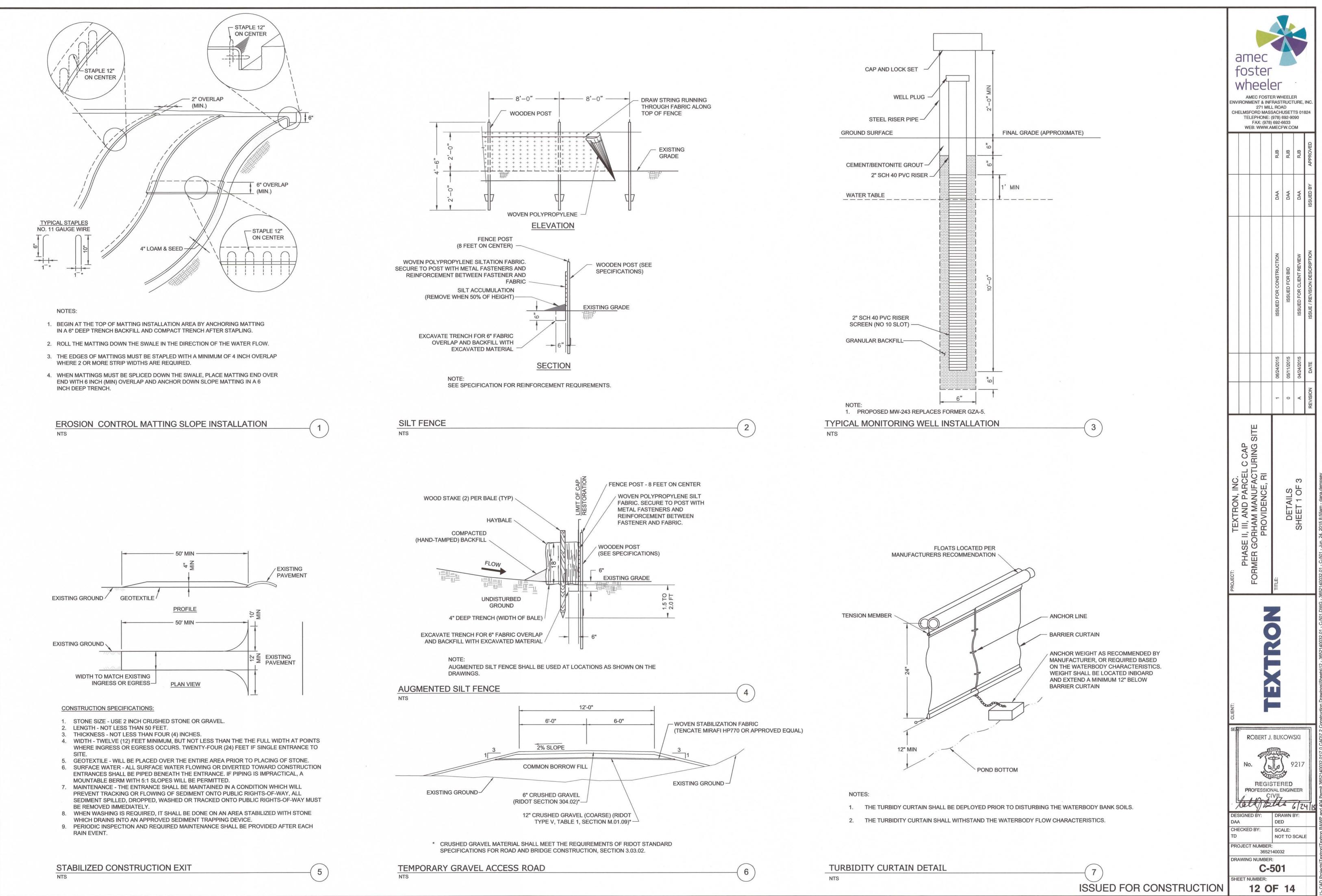
HORIZONTAL SCALE: 1" = 50' VERTICAL SCALE: 1" = 5'



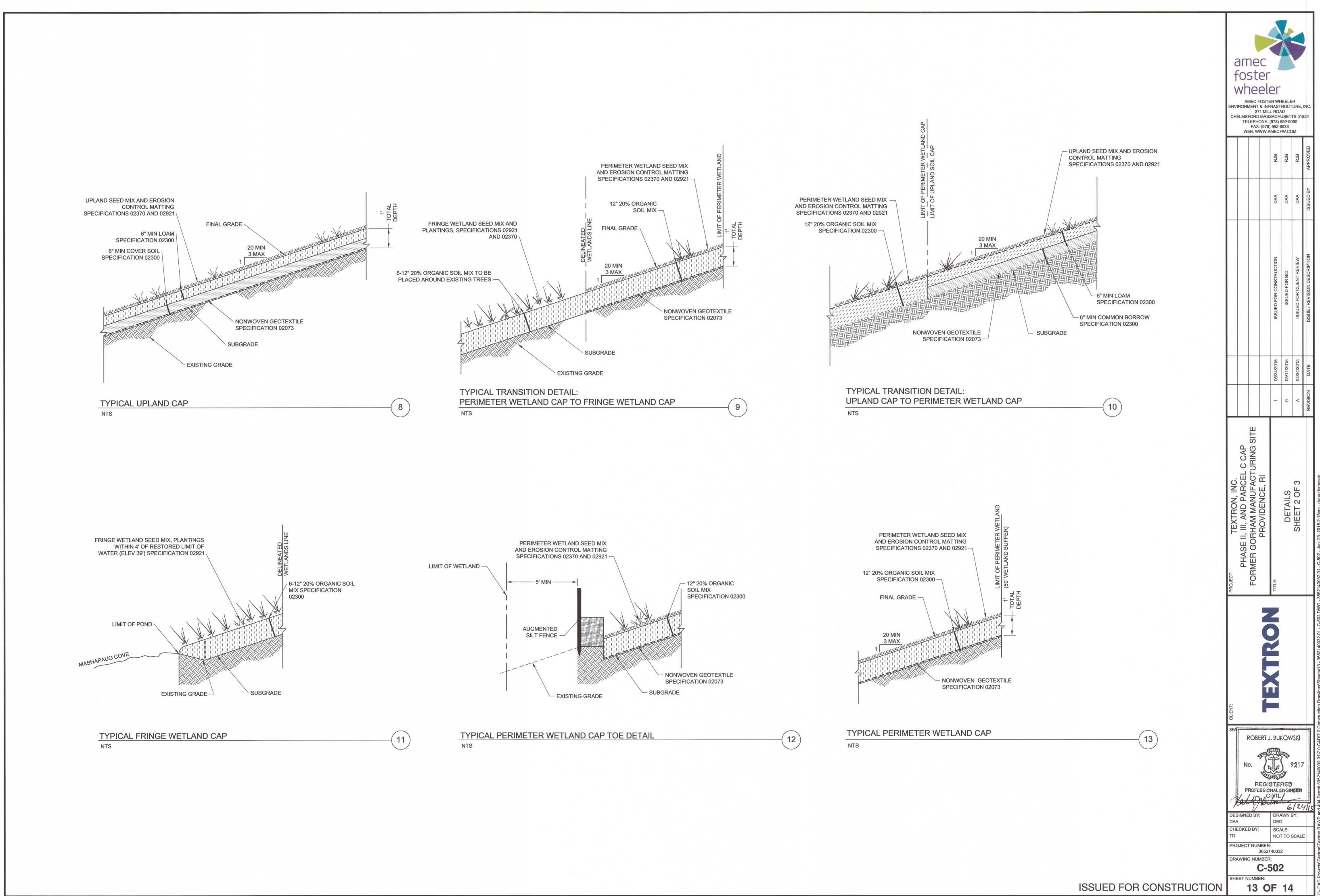


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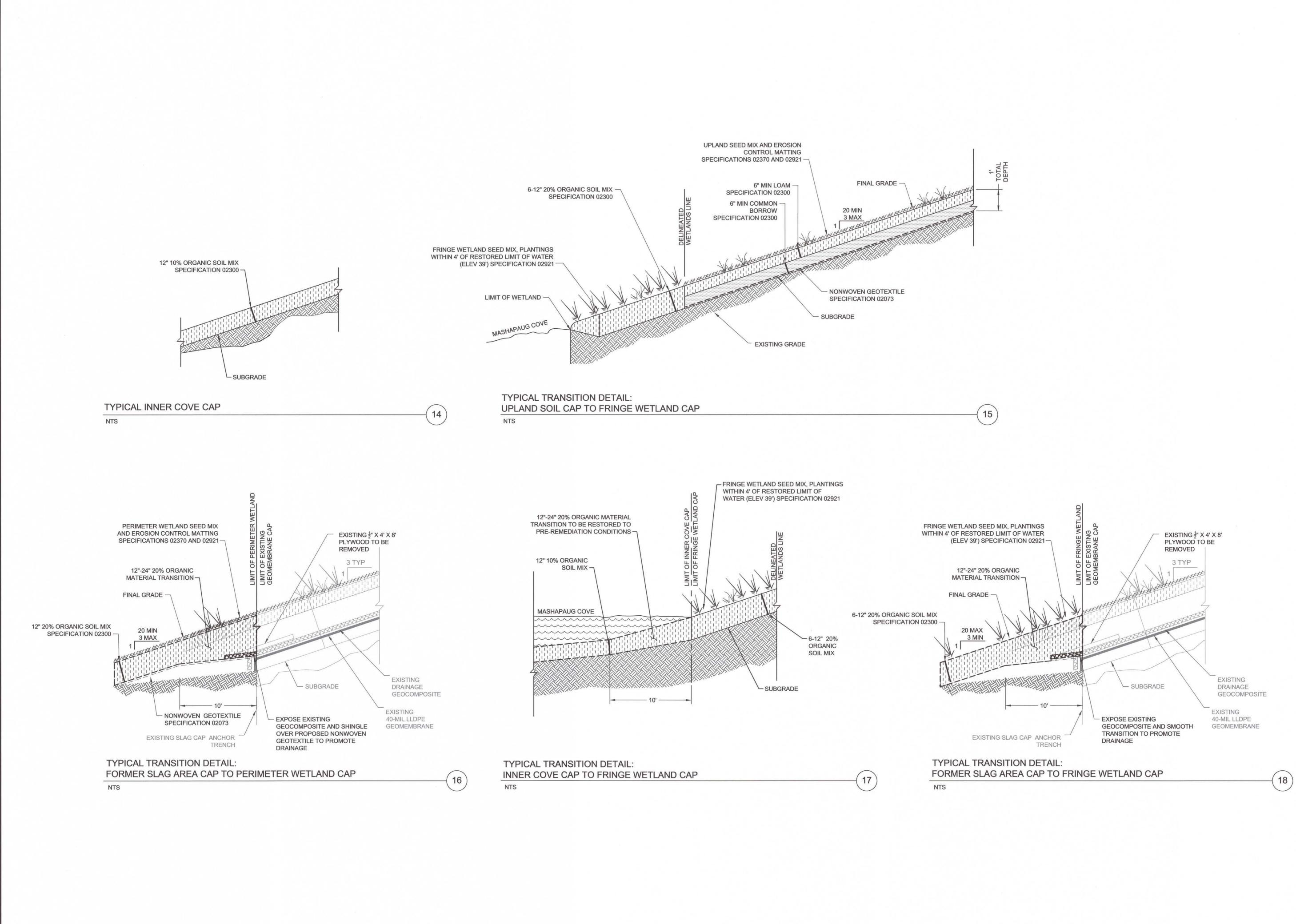
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			RJB	RJB	RJB	APPROVED
			DAA	DAA	DAA	ISSUED BY
			ISSUED FOR CONSTRUCTION	ISSUED FOR BID	ISSUED FOR CLIENT REVIEW	ISSUE / REVISION DESCRIPTION
			06/24/2015	05/11/2015	04/24/2015	DATE
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	PROJECT: TEXTRON, INC. PHASE II, III, AND PARCEL C CAP FORMER GORHAM MANUFACTURING SITE	PROVIDENCE, RI	TITLE:	DI ANI AND PROFILE R.R.		
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		RJB RJB	RJB	APPROVED	
		DAA	DAA	ISSUED BY	
		ISSUED FOR CONSTRUCTION ISSUED FOR BID	ISSUED FOR CLIENT REVIEW	ISSUE / REVISION DESCRIPTION	
		06/24/2015 05/11/2015	04/24/2015	DATE	
		1 0	A	REVISION	
STING <sup>1</sup> / <sub>2</sub> " X 4' X 8' WOOD TO BE IOVED TYP	PROJECT: TEXTRON, INC. PHASE II, III, AND PARCEL C CAP FORMER GORHAM MANUFACTURING SITE PROVIDENCE, RI TITLE: DETAILS SHEET 3 OF 3 SHEET 3 OF 3				
EXISTING DRAINAGE GEOCOMPOSITE EXISTING 40-MIL LLDPE GEOMEMBRANE	SEFE ROBERT J. BUKOWSKI No. P217 REGISTERED PROFESSIONAL ENGINEER PROFESSIONAL ENGINEER PROFESSIONAL ENGINEER PROFESSIONAL ENGINEER				
	DAA DED CHECKED BY: SCALE: TD NOT TO SCALE PROJECT NUMBER: 3652140032 DRAWING NUMBER: C-503				
ISSUED FOR CONSTRUCTION	SHEET NUMBER:				

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