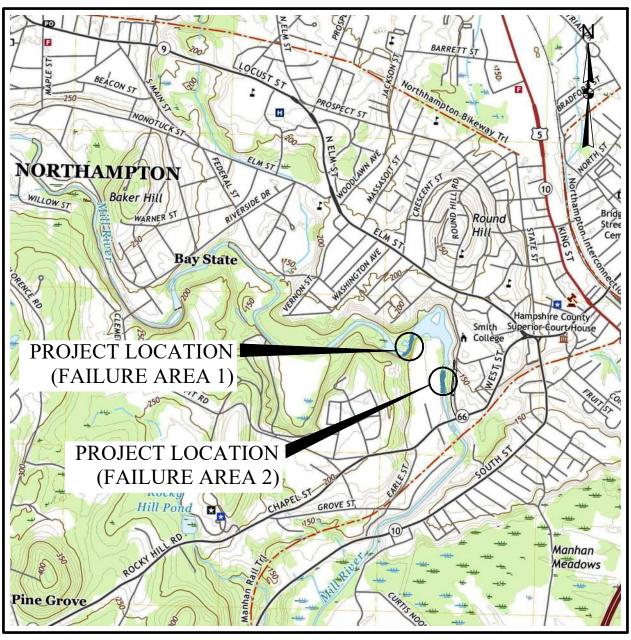


EX-1 EXISTING TOPOGRAPHIC PLAN OF LAND

- C-1 SITE ACCESS, EROSION & SEDIMENT CONTROL, AND WATER CONTROL PLAN
- **C-2 EROSION & SEDIMENT CONTROL NOTES AND DETAILS**
- C-3 PROPOSED LAYOUT PLAN BANK REPAIRS
- C-4 FAILURE AREA 1 CROSS SECTIONS
- C-5 FAILURE AREA 2 CROSS SECTIONS
- C-6 CONSTRUCTION DETAILS
- C-7 PROPOSED POROUS BITUMINOUS CONCRETE PAVEMENT PLAN AND DETAILS
- C-8 **FAILURE AREA 1 RESTORATION PLAN**
- L-1 LANDSCAPE PLAN
- BR-1 LAMONT BRIDGE REHABILITATION: REPAIR PLANS
- BR-2 LAMONT BRIDGE REHABILITATION: REPAIR ELEVATION AND DETAILS
- BR-3 LAMONT BRIDGE REHABILITATION: REPAIR DETAILS
- BR-4 LAMONT BRIDGE REHABILITATION: TYPICAL CONCRETE REPAIR DETAILS

MILL RIVER BANK REPAIR PROJECT SMITH COLLEGE NORTHAMPTON, MASSACHUSETTS OCTOBER, 2023



LOCUS PLAN U.S.G.S. Easthampton MA Quad 2021 1'' = 2000'

PRELIMINARY DRAWING

TO ACCOMPANY PERMIT APPLICATIONS AND REVIEW NOT FOR CONSTRUCTION OCTOBER 2023

REFERENCE NOTES:

- THE BASE MAP WAS DEVELOPED FROM SEALED PLANS PROVIDED BY NORTHEAST SURVEY CONSULTANTS ENTITLED "PLAN OF LAND IN NORTHAMPTON, MA PREPARED FOR GZA GEOENVIRONMENTAL, INC. & SMITH COLLEGE", DATED 12-30-2019, SHEETS 1 - 2 OF 2
- VERTICAL COORDINATE BASE = N.A.V.D. 1988. HORIZONTAL COORDINATE BASE MASSACHUSETTS STATE PLANE, N.A.D. 83 (MASS MAINLAND).
- 3. WETLAND FLAGS SERIES RA DELINEATION BY GZA GEOENVIRONMENTAL, INC., 10/22/2019
- 4. WETLAND FLAGS SERIES WF FROM DIKE REPAIR PLAN, PARADISE POND DAM REPAIRS PARE CORPORATION, AUGUST 3, 2012.
- 5. THE BASE MAP FOR AREAS ALONG PARADISE POND FROM THE BOAT RAMP TO NORTH OF THE LAMONT BRIDGE WERE DEVELOPED FROM DIKE REPAIR PLAN, PARADISE POND DAM REPAIRS, PARE CORPORATION, AUGUST 3, 2012.

PREPARED FOR:

Smith College Facilities Management

126 West Street Northampton, MA

SURVEYOR:

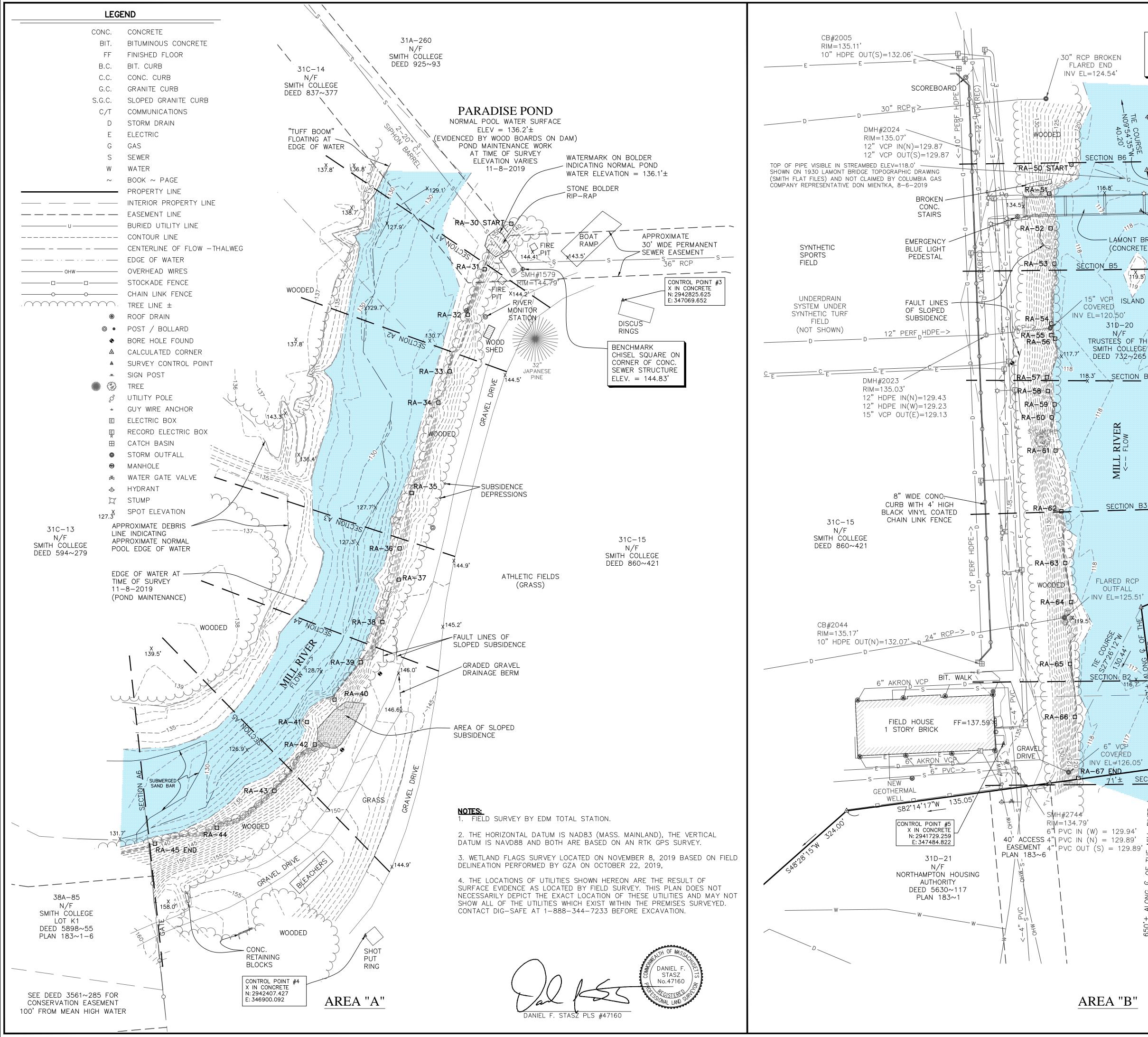
Northeast Survey Consultants

116 Pleasant Street, Suite 302 P.O. Box 109 Easthampton, MA 01027 413-203-5144

DESIGNER:

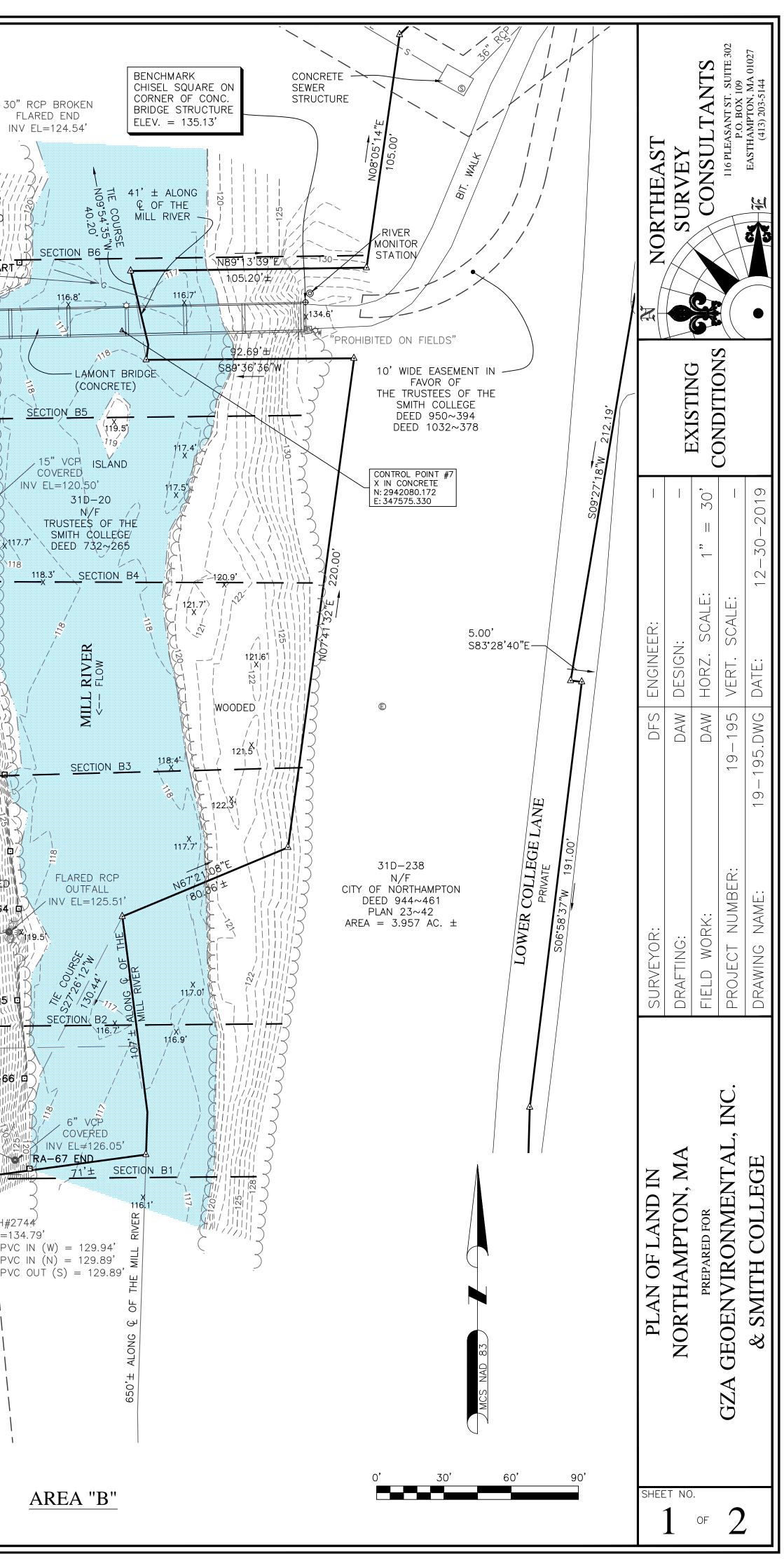
GZA GeoEnvironmental, Inc. **Engineers and Scientists** ONE FINANCIAL PLAZA 1350 Main Street, Suite 1400 Springfield, MA 01103 413-726-2100

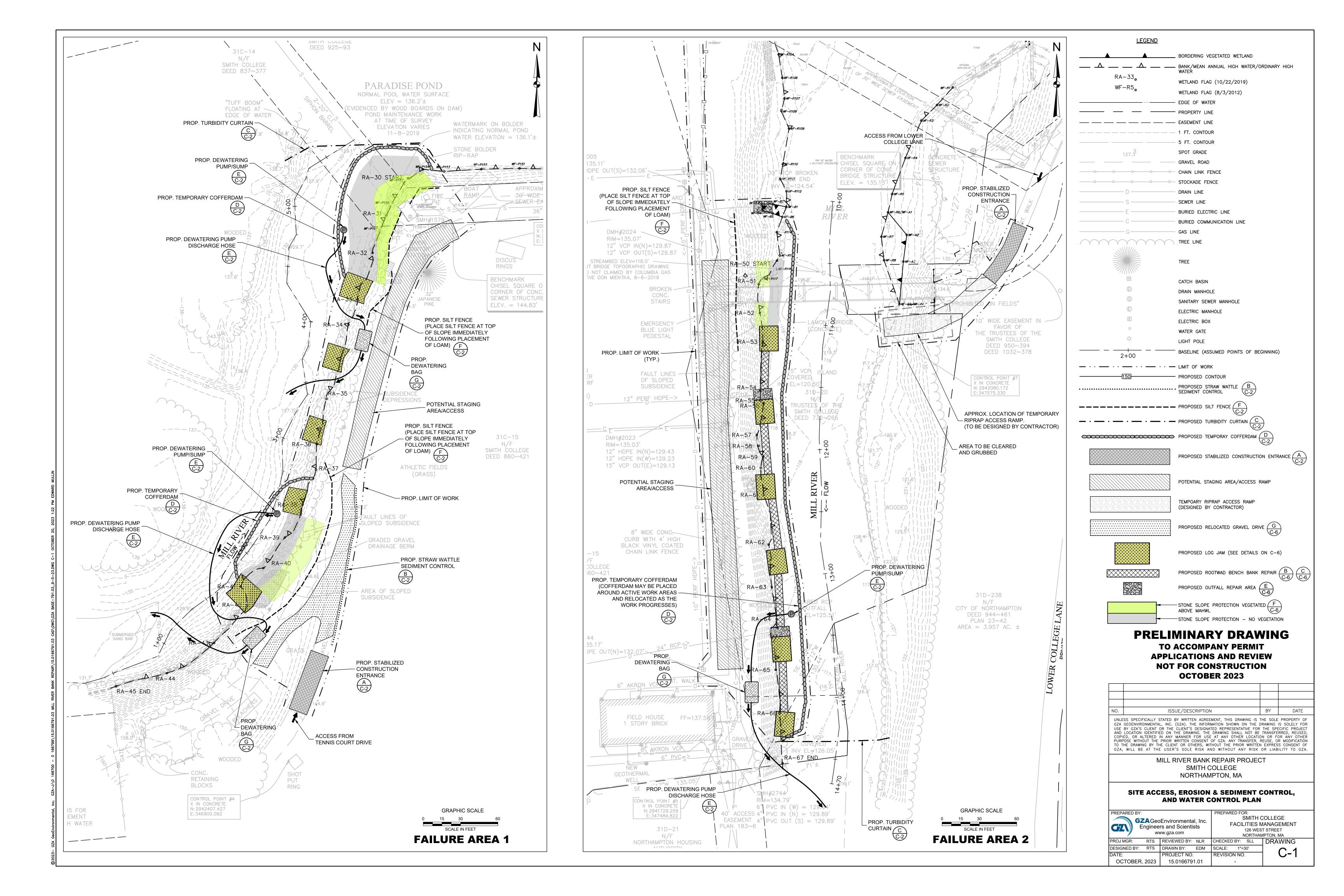




AREA "B"

117.7'



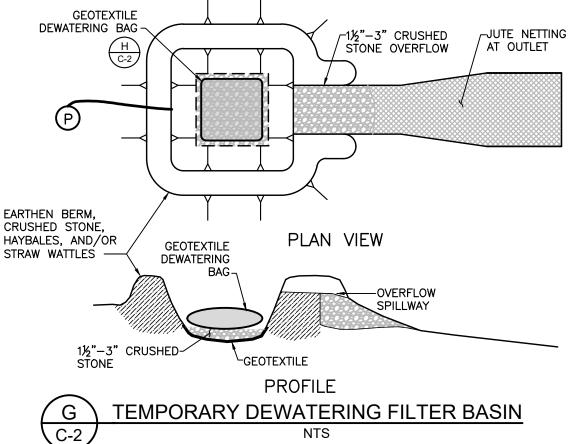


SEDIMENT AND EROSION CONTROL NOTES

- DURING ANY IN-STREAM WORK, FLOATING TURBIDITY CURTAINS SHALL BE DEPLOYED ALONG THE LIMIT OF WORK IN THE ACTIVE WORK AREA AND DOWNSTREAM OF THE SECTION UNDERGOING ACTIVE CONSTRUCTION. THE TURBIDITY CURTAIN ALONG THE LIMIT OF WORK CAN BE SECURED TO VERTICAL PILES AND MOVED AS NEEDED AS CONSTRUCTION PROGRESSES.
- 2. THE CONTRACTOR SHALL CONSTRUCT ALL EROSION AND SEDIMENT CONTROL MEASURES PER THE SPECIFICATIONS AND THE SEDIMENT AND EROSION CONTROL PLAN PRIOR TO BEGINNING ANY OTHER LAND DISTURBANCES, SHALL ENSURE THAT ALL RUNOFF FROM DISTURBED AREAS IS DIRECTED TO THE SEDIMENT CONTROL DEVICES, AND SHALL NOT REMOVE ANY EROSION OR SEDIMENT CONTROL MEASURES UNTIL THE AREAS DRAINING TO THEM ARE STABILIZED. THE CONTRACTOR SHALL INSPECT DAILY AND MAINTAIN CONTINUOUSLY IN EFFECTIVE OPERATING CONDITION ALL EROSION AND SEDIMENT CONTROL MEASURES UNTIL SUCH TIME AS THEY ARE REMOVED. CONDUCT INSPECTIONS AND REPORTING IN ACCORDANCE WITH ALL PERMITS.
- IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE CONTRACTOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES (BMPS) TO ELIMINATE THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION. THE CONTRACTOR SHALL INSTALL AND MAINTAIN, AT NO ADDITIONAL COST TO THE OWNER, ANY ADDITIONAL EROSION CONTROL MEASURES DEEMED NECESSARY FOR PERMIT COMPLIANCE BY THE CONTRACTOR, THE OWNER AND/OR THEIR REPRESENTATIVES, OR BY FEDERAL/STATE/LOCAL GOVERNMENT INSPECTORS.
- 4. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH APPLICABLE PUBLISHED STANDARDS AND SPECIFICATIONS AND THE "MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS: A GUIDE FOR PLANNERS, DESIGNERS, AND MUNICIPAL OFFICIALS" (MA DEP, MAY 2003).
- 5. CONSTRUCTION ENTRANCE(S) SHALL BE INSTALLED CONCURRENTLY WITH THE INITIATION OF CLEARING AND GRUBBING OPERATIONS. THE CONTRACTOR SHALL PROTECT ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS TO PREVENT THE DEPOSITION OF MATERIALS ONTO TRAVERSED PUBLIC THOROUGHFARES. ALL MATERIALS DEPOSITED ONTO PUBLIC THOROUGHFARES SHALL BE REMOVED IMMEDIATELY. ANTI-TRACKING PADS (CONSTRUCTION ENTRANCES) SHALL BE INSTALLED AS DETAILED ON THE DRAWINGS, AT NO ADDITIONAL COST TO THE OWNER, WHERE DEEMED NECESSARY BY THE ENGINEER TO PREVENT THE TRACKING OF MUD, SEDIMENTS, SOIL, OR DEBRIS ONTO THE PUBLIC WAYS OR ONTO SURFACES UNPROTECTED BY DOWNGRADIENT EROSION AND SEDIMENTATION CONTROLS.
- 6. ALL DISTURBED AREAS SHALL BE RESTORED IN ACCORDANCE WITH THE SPECIFICATIONS AND THE REQUIREMENTS OF THE U.S. EPA'S NPDES "GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION SITES". NO AREAS OUTSIDE OF THE PERIMETER SEDIMENT CONTROL BARRIER OR LIMIT OF WORK SHALL BE DISTURBED.
- 7. ALL STOCKPILES OF SOIL OR AGGREGATE MATERIALS SHALL BE ENCIRCLED BY A PERIMETER EROSION CONTROL BARRIER. STOCKPILES WHICH HAVE NOT BEEN USED FOR 14 CALENDAR DAYS SHALL BE STABILIZED THROUGH THE APPLICATION OF SOD, SEED AND ANCHORED STRAW MULCH, OR OTHER APPROVED STABILIZATION MEASURES.
- 8. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE DIRECTED INTO FIBER MATS, NETTING, RIPRAP, OR NATURALLY OCCURRING GROUND COVER TO MINIMIZE EROSION. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE PUMPED EITHER TO SEDIMENT TANKS, SEDIMENT BAGS, AND/OR SEDIMENT TRAPS FOR SEDIMENT REMOVAL. DEWATERING SHALL BE PERFORMED IN ACCORDANCE WITH THE "MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS: A GUIDE FOR PLANNERS, DESIGNERS, AND MUNICIPAL OFFICIALS" AND IN A MANNER THAT DOES NOT ADVERSELY AFFECT AREAS OUTSIDE OF THE LIMIT OF WORK.
- TEMPORARY SEDIMENT TRAP(S) SHALL BE CLEANED OUT AND RESTORED TO ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO A POINT ONE HALF (1/2) THE DEPTH BETWEEN THE OUTLET CREST AND THE BOTTOM OF THE TRAP.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING, CALCIUM CHLORIDE, OR OTHER EFFECTIVE MEANS OF CONTROL.
- 11. ALL WASTE MATERIALS GENERATED AT THE SITE SHALL BE IMMEDIATELY REMOVED AND DISPOSED OF OR STORED IN A SECURELY-COVERED CONTAINER IN ACCORDANCE WITH LOCAL AND STATE REGULATIONS. CONTAINER SHALL BE EMPTIED ON A REGULAR BASIS AND AS NECESSARY. NO CONSTRUCTION WASTE, SLASH, OR DEBRIS SHALL BE BURIED ONSITE.
- 12. PERMANENT SWALES OR OTHER POINTS OF CONCENTRATED WATER FLOW SHALL BE STABILIZED WITH SOD OR SEED AND WITH AN APPROVED EROSION CONTROL MATTING OR BY OTHER APPROVED STABILIZATION MEASURES.
- 13. FOR FINISHED GRADING, THE CONTRACTOR SHALL PROVIDE ADEQUATE GRADIENTS SO AS TO PREVENT WATER FROM STANDING ON THE SURFACE OF LAWNS MORE THAN 24 HOURS AFTER THE END OF A RAINFALL, EXCEPT IN DESIGNATED DRAINAGE COURSES AND SWALE FLOW AREAS WHICH MAY DRAIN AS LONG AS 48 HOURS AFTER THE END OF A RAINFALL, AND PROVIDE POSITIVE DRAINAGE AWAY FROM ALL BUILDING FOUNDATIONS OR OPENINGS.
- 14. PRIOR TO REMOVAL OF SEDIMENT CONTROL MEASURES THE CONTRACTOR SHALL STABILIZE ALL CONTRIBUTORY DISTURBED AREAS USING THE SPECIFIED SEED MIXTURE, SOIL AMENDMENTS, AND THE APPLICATION OF A STAPLED EROSION CONTROL BLANKET AS SPECIFIED. IN ADDITION TO THE SPECIFIC REQUIREMENTS FOR THE RESTORATION OF DISTURBED AREAS AS FOUND IN THE SPECIFICATIONS, AREAS BROUGHT TO FINISHED GRADE DURING THE SEEDING SEASON SHALL BE PERMANENTLY STABILIZED WITHIN 14 CALENDAR DAYS OF ESTABLISHMENT. WHEN PROPERTY IS BROUGHT TO FINISHED GRADE DURING THE MONTHS WHEN PERMANENT STABILIZATION IS FOUND TO BE IMPRACTICAL, AN APPROVED TEMPORARY SEED AND STRAW ANCHORED MULCH OR OTHER ACCEPTABLE MEANS SHALL BE APPLIED TO DISTURBED AREAS.
- 15. TEMPORARY SEDIMENT CONTROL DEVICES SHALL BE REMOVED WITHIN (30) CALENDAR DAYS FOLLOWING ESTABLISHMENT OF PERMANENT STABILIZATION (HEALTHY STAND OF ACCEPTABLE GRASS OR SURFACE PAVING) IN ALL CONTRIBUTORY DRAINAGE AREAS. STORMWATER MANAGEMENT STRUCTURES USED TEMPORARILY FOR SEDIMENT CONTROL SHALL BE CLEANED AND CONVERTED TO THEIR PERMANENT CONFIGURATION WITHIN THIS TIME PERIOD AS WELL. ALL STORM DRAINAGE STRUCTURES, SUMPS, AND PIPES SHALL BE CLEANED OF ALL SEDIMENTS PRIOR TO FINAL PAYMENT.
- 16. THESE SEDIMENT AND EROSION CONTROL NOTES WERE DEVELOPED TO ADDRESS THE REQUIREMENTS OF THE U.S. EPA'S NPDES "GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION SITES". THE SPECIFICATIONS CONTAIN MANY REQUIREMENTS RELATIVE TO SEDIMENTATION AND EROSION CONTROL AND RESTORATION OF DISTURBED AREAS THAT ARE MORE STRINGENT THAN THE REQUIREMENTS OF THE GENERAL PERMIT. IN SUCH CASES, THE MORE STRINGENT REQUIREMENT SHALL GOVERN THE WORK OF THIS CONTRACT.

STORMWATER PERMIT NOTES:

- 1. THIS PROJECT IS REGULATED UNDER THE UNITED STATES ENVIRONMENTAL PROTECTION OWNER
- 2. UNDER THE CONTRACT FOR THE CONSTRUCTION OF THIS PROJECT, THE CONTRACTOR SWPPP.
- 3. TO OBTAIN COVERAGE UNDER THE CONSTRUCTION GENERAL PERMIT (CGP), A COMPLETE AND/OR SPECIFICATIONS.
- 4. EACH PARTY THAT HAS OPERATIONAL CONTROL OVER THE CONSTRUCTION PLANS CERTIFICATION FORM INCLUDED IN THE SWPPP.
- 5. EACH OPERATOR IS EQUALLY RESPONSIBLE FOR COMPLYING WITH THE TERMS OF THE
- 6. IMPLEMENTATION OF THE SWPPP BY THE CONTRACTOR SHALL BEGIN AT THE DOCUMENTED UNTIL FINAL STABILIZATION OF THE SITE IS COMPLETE.
- 7. A SIGN SHALL BE VISIBLY POSTED AT THE SITE WHICH PROVIDES NOTICE OF THE CGP, A ACTIVITY SEQUENCING AND TIMING IN THE SWPPP.
- 8. INSPECTION AND MAINTENANCE SHALL BE PERFORMED REGULARLY FOR PERMIT APPENDED TO THE SWPPP.
- 9. WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION OPERATION, OR AMENDED.
- 10. CONTRACTOR SHALL IDENTIFY THE LOCATIONS OF THE FOLLOWING ON THE S&EC OR PROJECT PLANS:
- a. PORTABLE SANITARY UNITS (TOILETS) b. FUEL TANKS
- c. LIMITS OF STAGING AREAS & SOIL DISTURBANCE AREAS d. WASTE CONTAINERS (E.G., DUMPSTERS)
- e. CHEMICAL, MATERIAL, EQUIPMENT, & VEHICLE STORAGE AREAS f. CONCRETE WASHOUT AREA
- g. SOIL STOCKPILES & CONTROLS h. VEHICLE/EQUIPMENT MAINTENANCE AND WASHING AREAS.
- 11. IF ADDITIONAL CONTROLS OR BMPS ARE ADDED, THESE SHALL BE DEPICTED ON THE STABILIZATION.
- 12. UPON FINAL STABILIZATION, A NOTICE OF TERMINATION (NOT) SHALL BE SUBMITTED TO THE EPA BY ALL OPERATORS WHO COMPLETED A NOI.



AGENCY'S (EPA'S) NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORMWATER PERMIT PROGRAM. OPERATORS OF SUCH CONSTRUCTION SITES MUST MEET THE REQUIREMENTS OF EPA'S CONSTRUCTION GENERAL PERMIT (CGP). PART OF THE CGP REQUIREMENTS IS THE PREPARATION OF A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR THE PROPOSED PROJECT. A SWPPP HAS BEEN PREPARED FOR THIS PROJECT AND WILL BE PROVIDED TO THE CONTRACTOR BY THE

SHALL BE THE OWNER'S AGENT IN THE IMPLEMENTATION AND MAINTENANCE OF THE

AND ACCURATE NOTICE OF INTENT (NOI) SHALL BE SUBMITTED TO THE ENVIRONMENTAL PROTECTION AGENCY (EPA) BY THE OWNER AND EACH CONTRACTOR AND SUBCONTRACTOR THAT HAS OPERATIONAL CONTROL OVER THE CONSTRUCTION PLANS

AND/OR SPECIFICATIONS IS CONSIDERED AN OPERATOR, AND SHALL ALSO SIGN THE

CGP AND FOR THE EFFECTIVE IMPLEMENTATION OF THE SWPPP. EACH OPERATOR SHALL AMEND THE SWPPP AS SITE CONDITIONS WARRANT TO MEET REQUIRED PERMIT ELEMENTS. ALL PARTIES SHALL ALSO MAINTAIN THE SWPPP DOCUMENT, CONDUCT INSPECTIONS, UPGRADE AND MAINTAIN SEDIMENT AND EROSION CONTROLS AS NEEDED. AND MEET ALL NOTICE OF INTENT (NOI) / NOTICE OF TERMINATION (NOT) REQUIREMENTS.

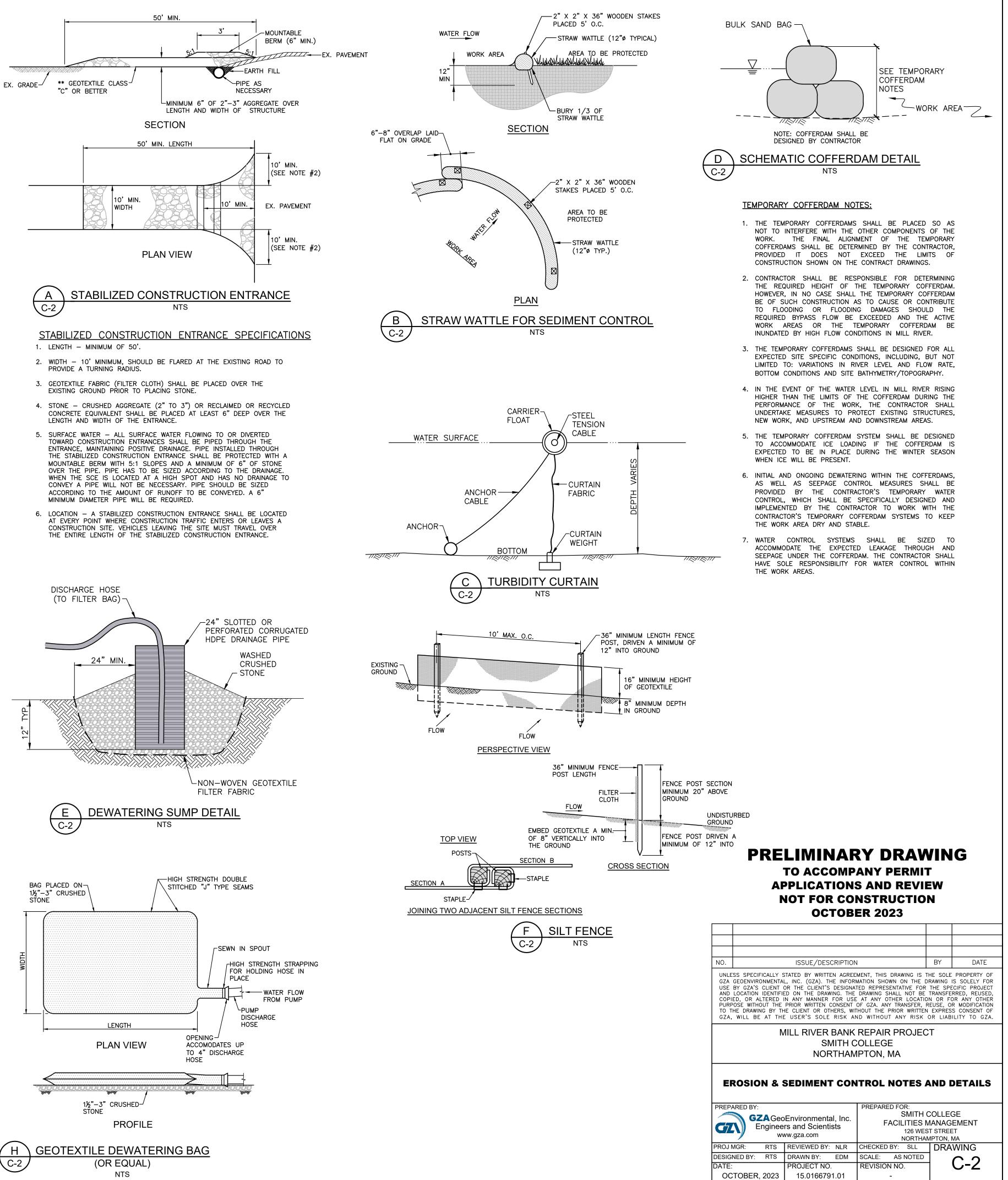
COMMENCEMENT OF CONSTRUCTION ACTIVITY AND MUST BE FULLY AND CONTINUALLY

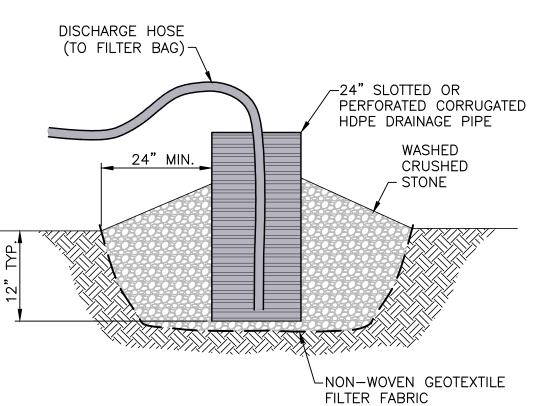
COPY OF EACH NOI, A CONTACT NAME AND PHONE NUMBER, AND THE ONSITE LOCATION WHERE THE SWPPP IS STORED. IF THE SWPPP IS TO BE MAINTAINED OFFSITE, THIS LOCATION MUST BE INDICATED AS WELL. IT IS THE RESPONSIBILITY OF THE OWNER, CONTRACTOR, AND ALL APPLICABLE SUB-CONTRACTORS TO INDICATE CONSTRUCTION

COMPLIANCE, AND DOCUMENTATION OF INSPECTIONS AND MAINTENANCE SHALL BE

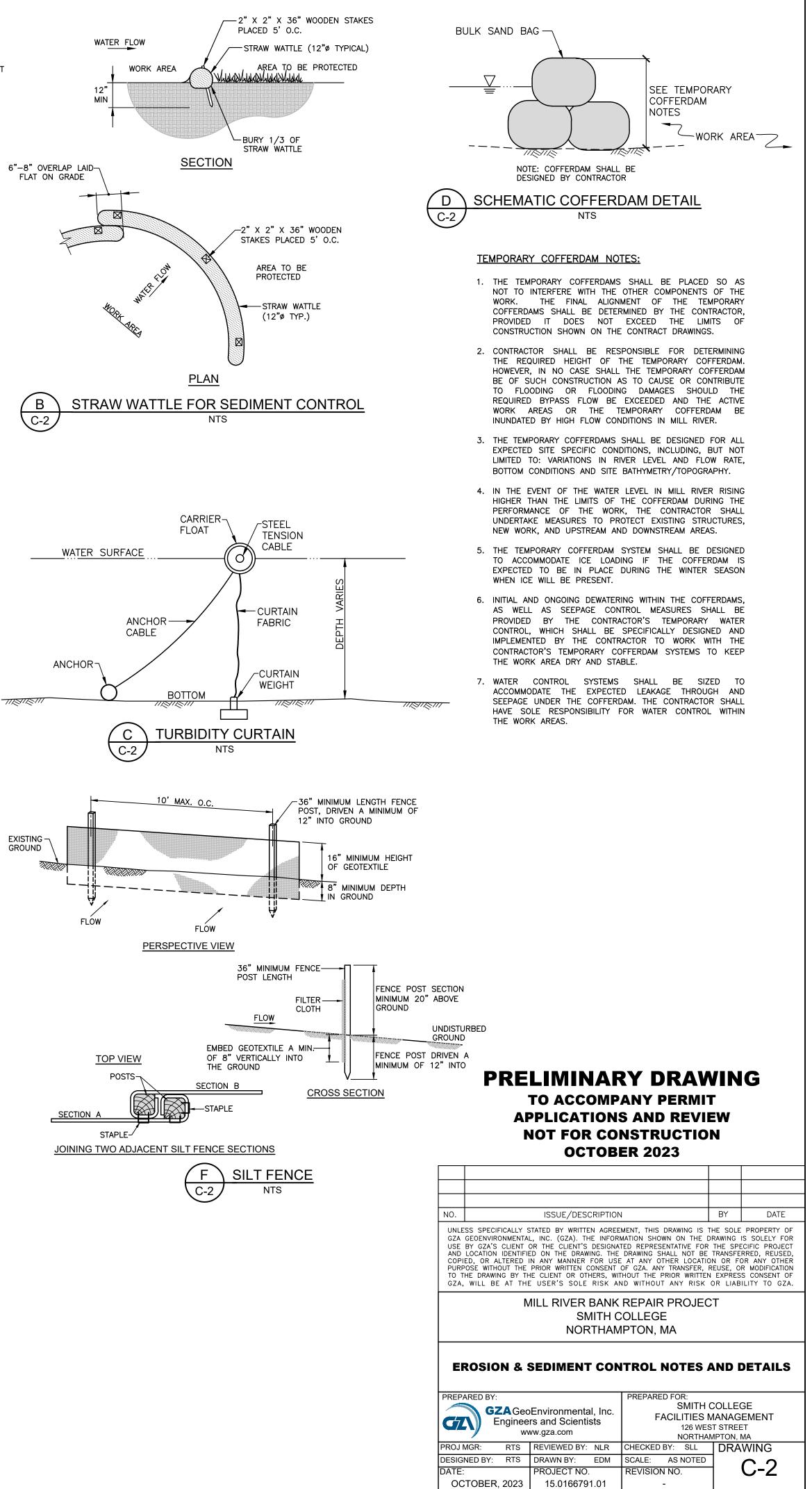
MAINTENANCE AT THE CONSTRUCTION SITE THAT HAS, OR COULD HAVE, A SIGNIFICANT EFFECT ON THE DISCHARGE OF STORM WATER POLLUTANTS, THE SWPPP SHALL BE

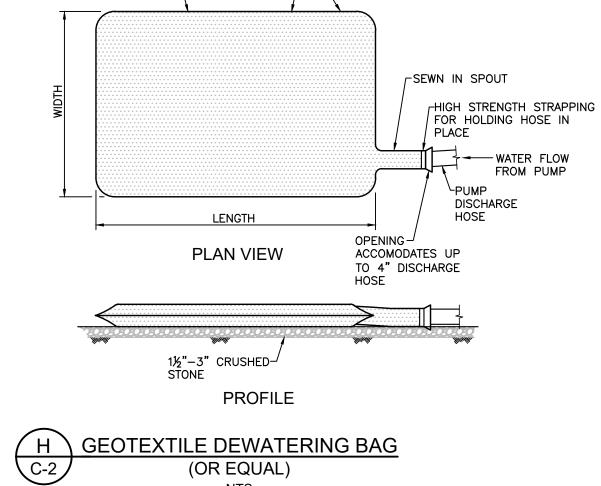
S&EC OR PROJECT PLANS AND A DESCRIPTION ADDED TO THE SWPPP. THESE NEW CONTROLS SHALL BE ADDED TO THE WEEKLY INSPECTIONS AS WELL. CONTRACTOR SHALL IDENTIFY ON THE S&EC PLANS ALL AREAS THAT HAVE UNDERGONE FINAL



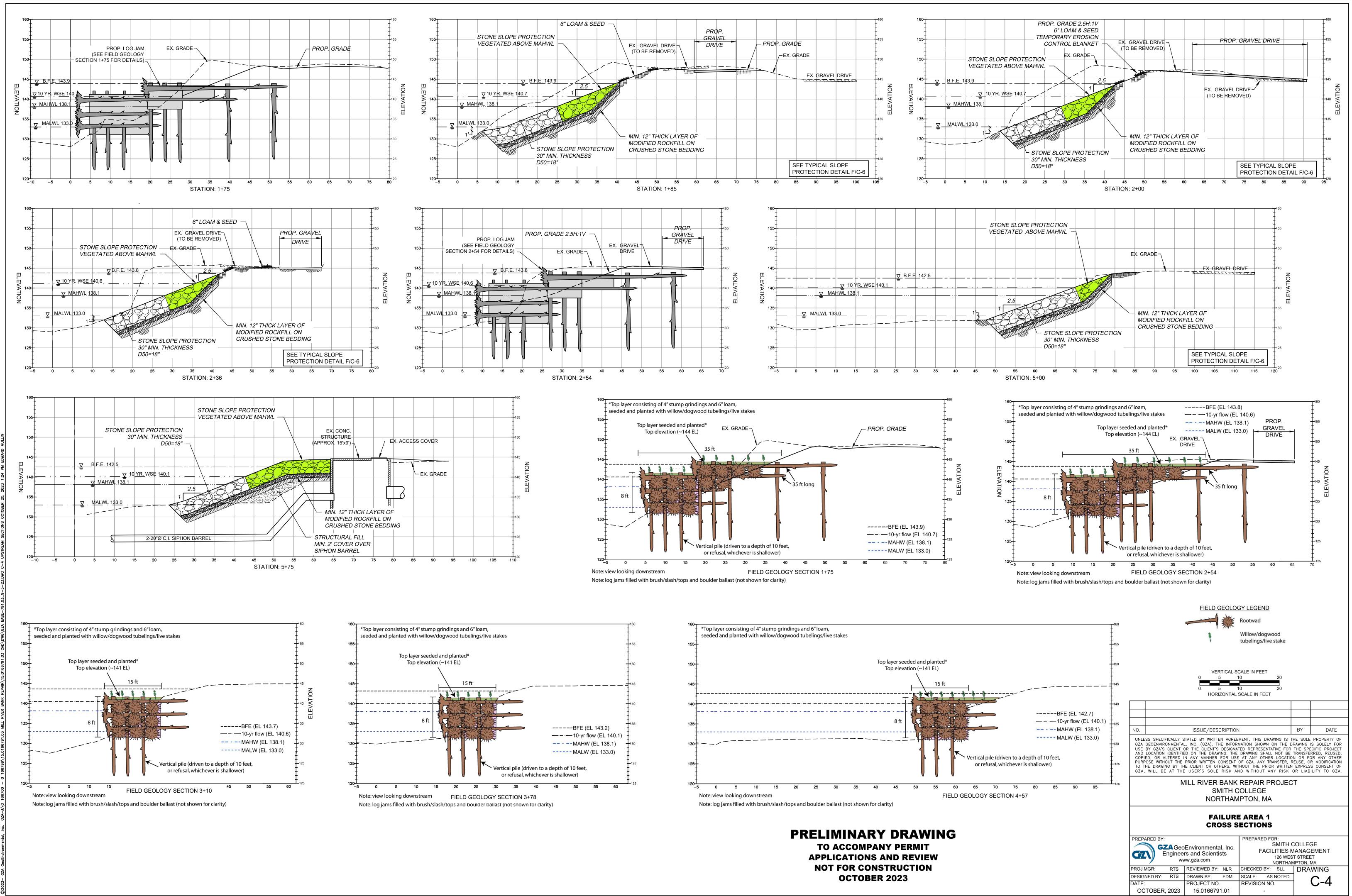


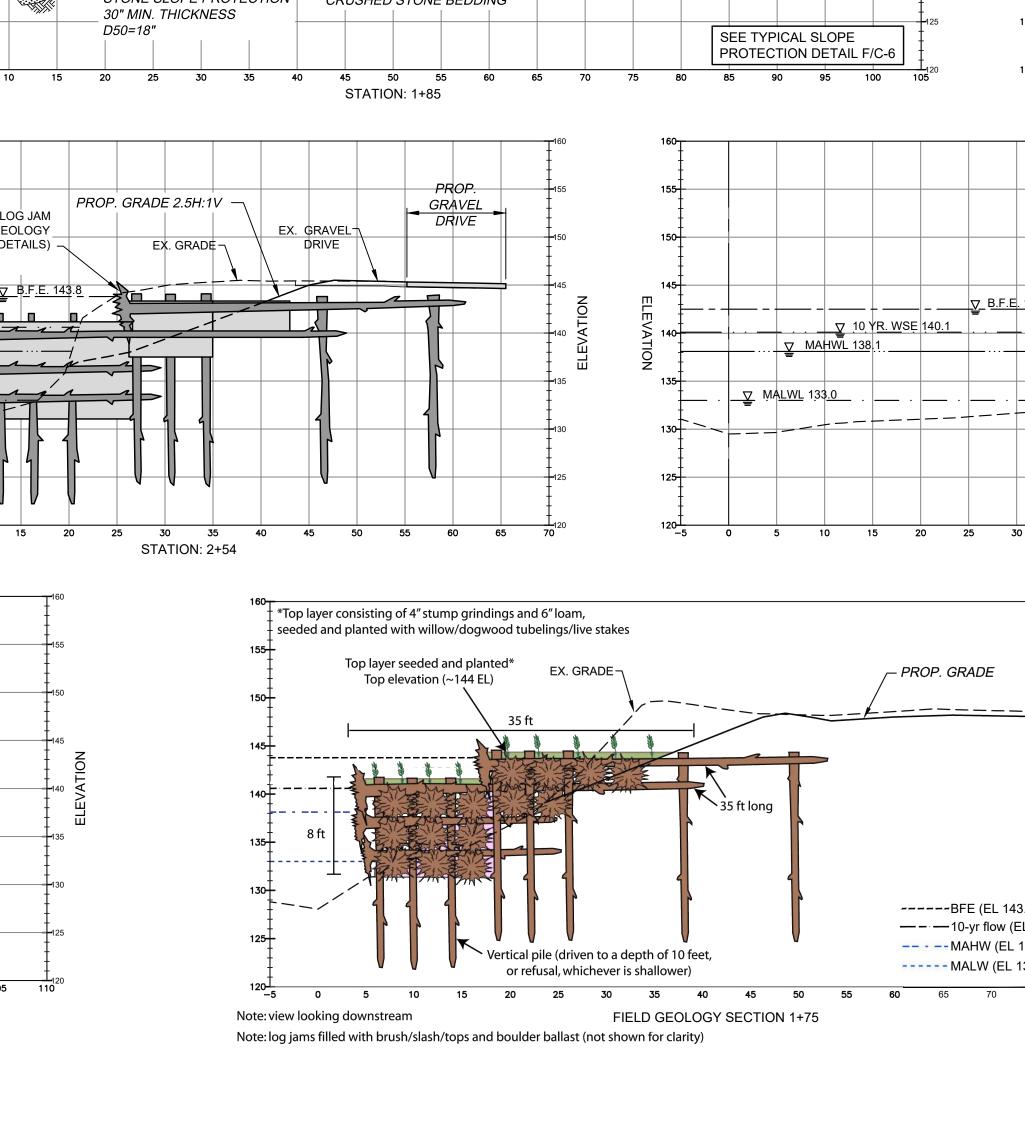


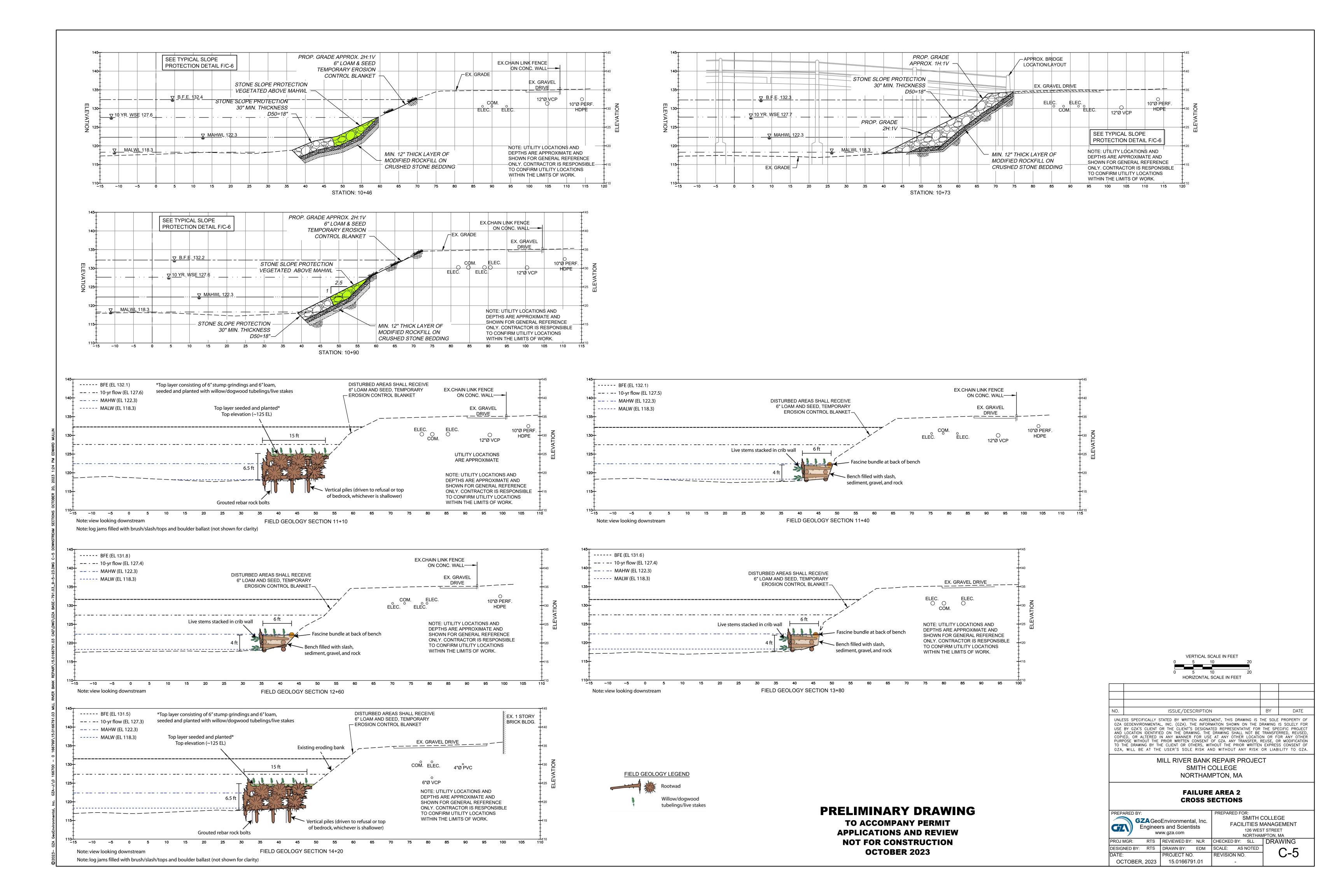


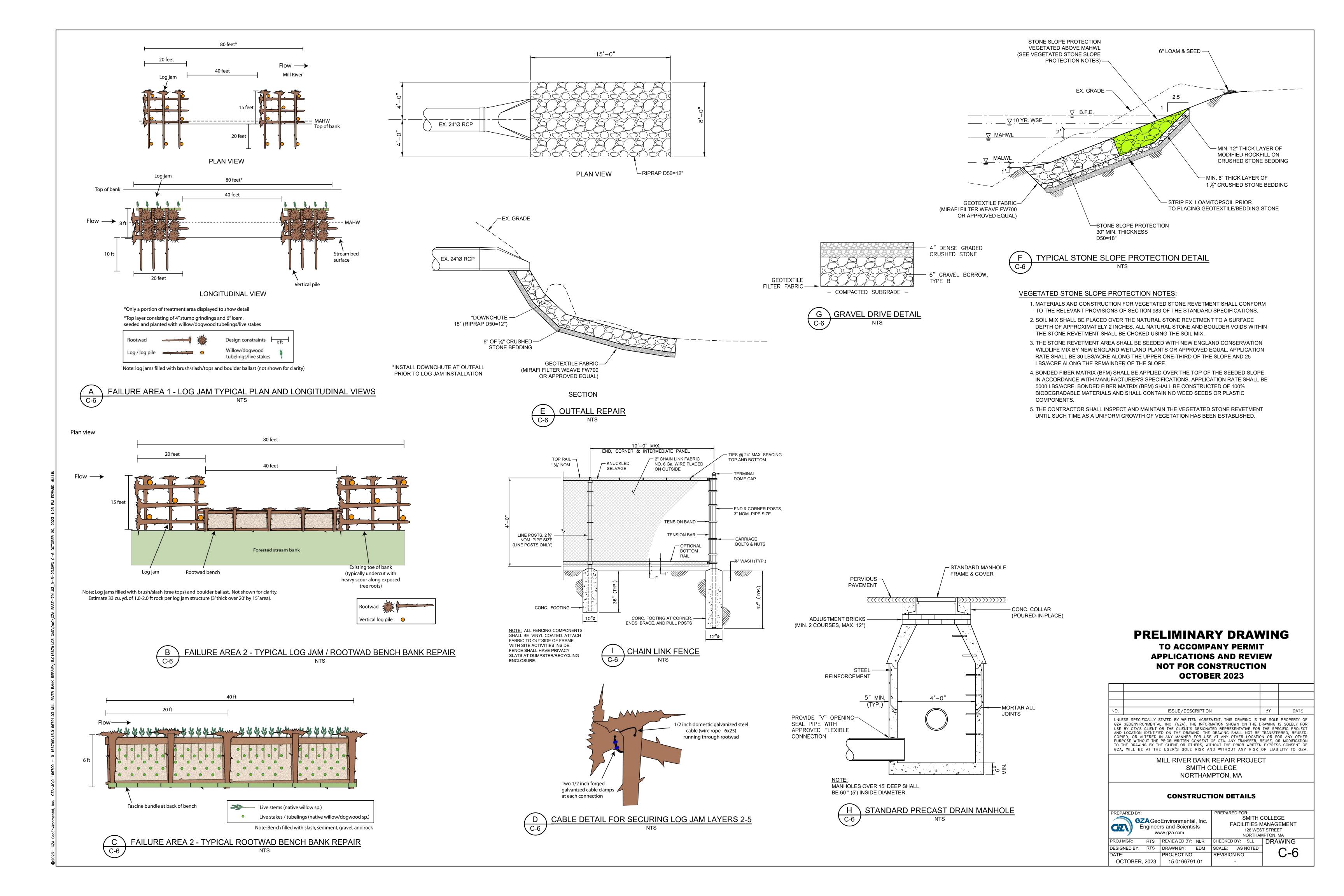


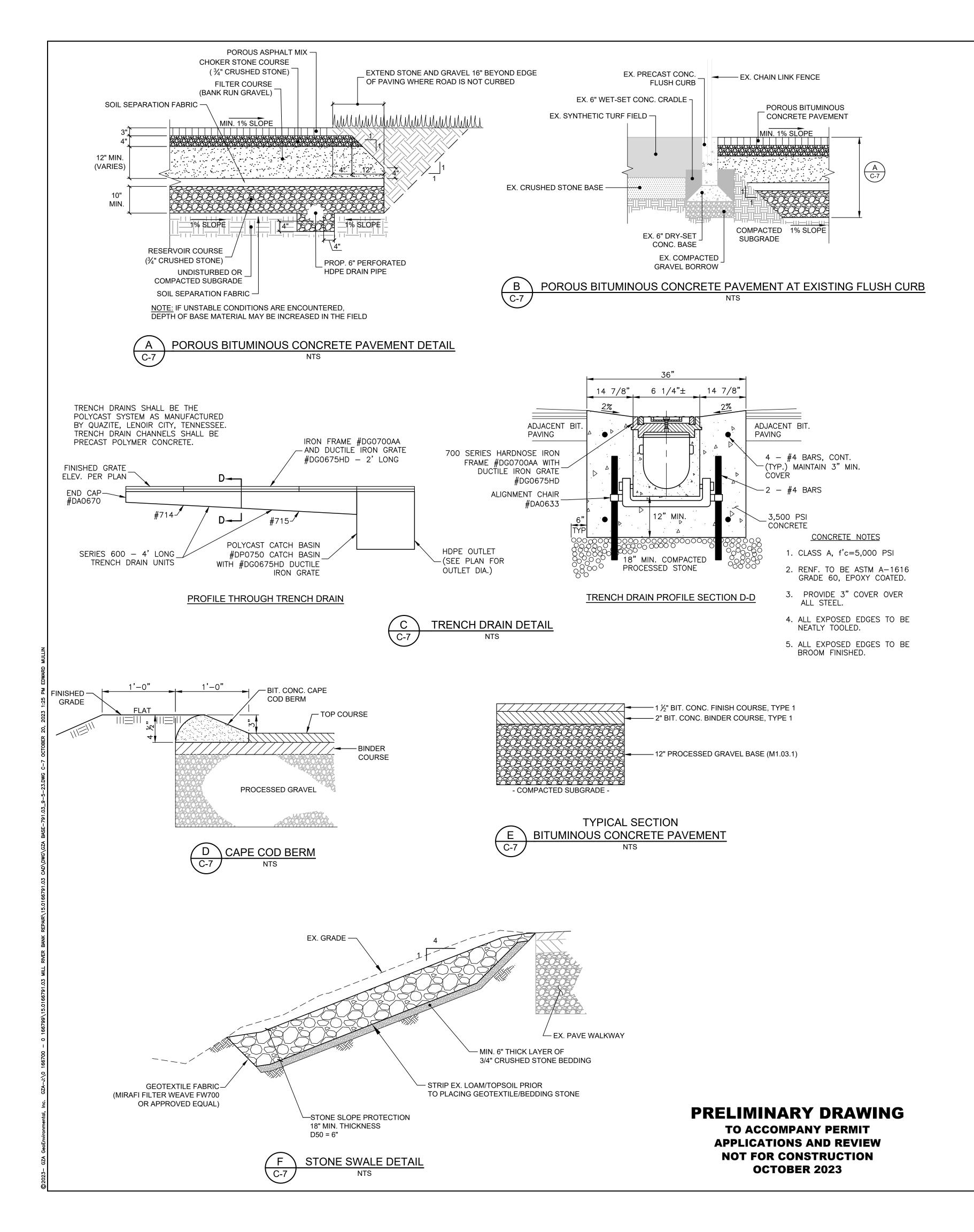


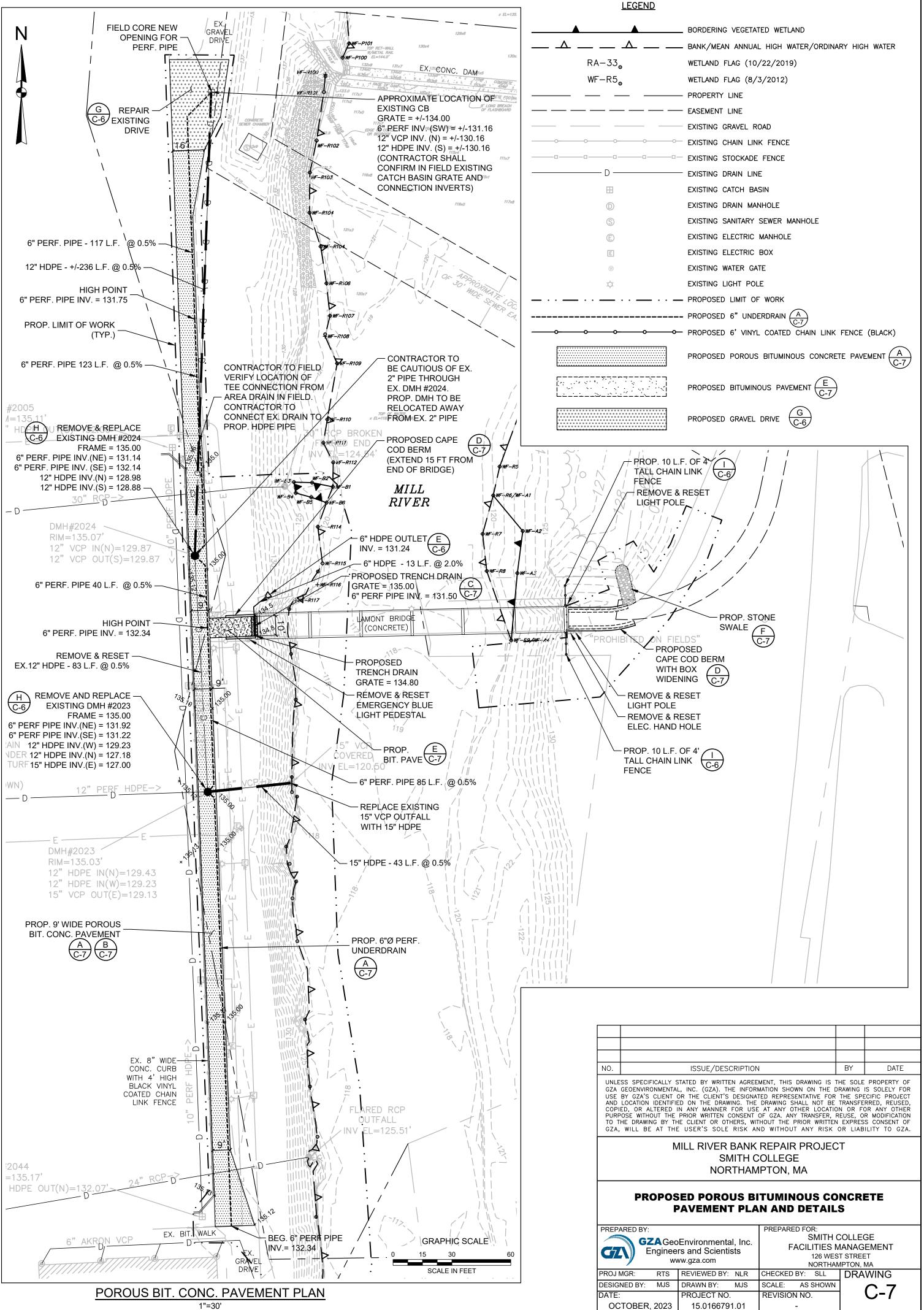


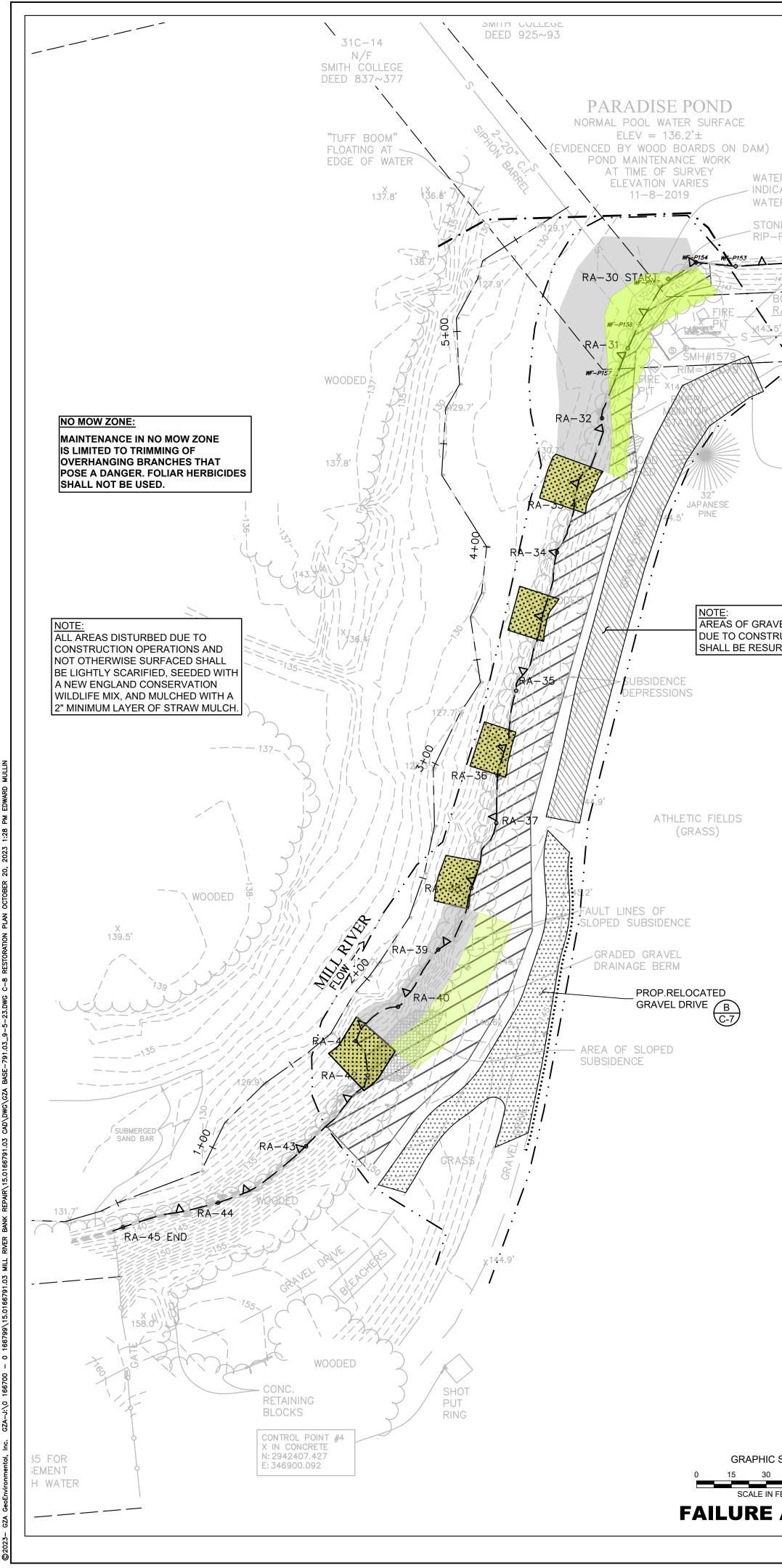




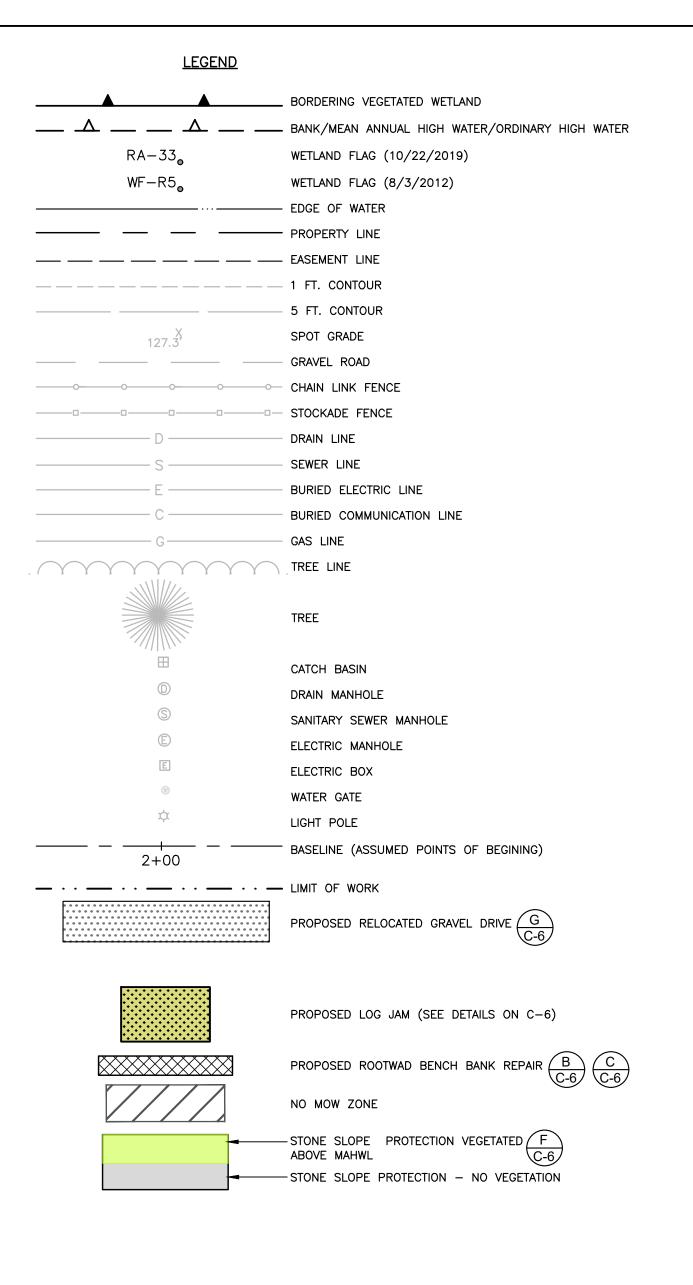






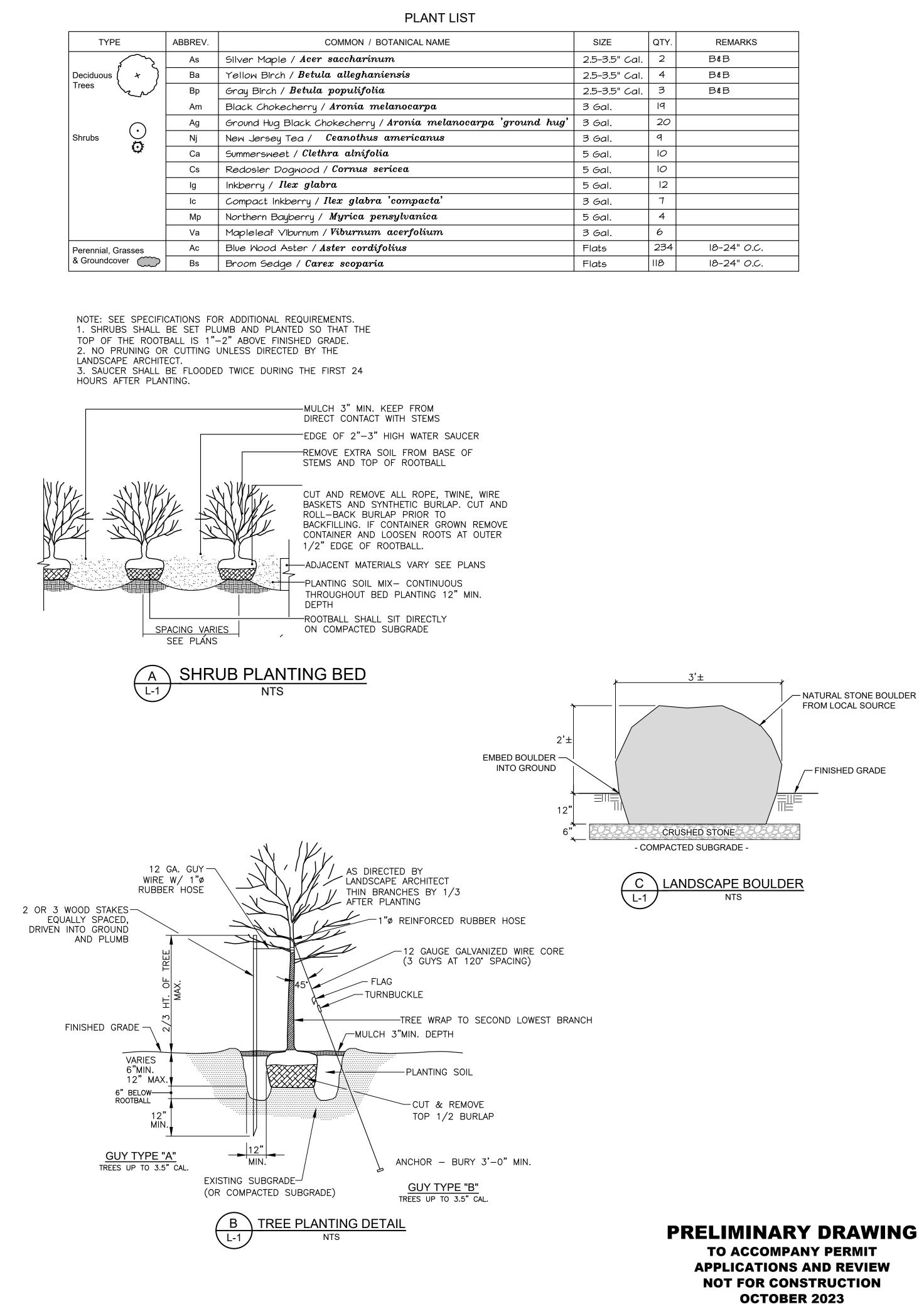


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ERMARK ON BOLDER CATING NORMAL POND	
ER ELEVATION = $136.1' \pm$	
NE BOLDER -RAP	
1 <u>WF-P152</u>	
BOAT APPROXIM	
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S 36"	
× + N: 2 E: 3	
DISCUS RINGS	
BENCHMARK	
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VEL DRIVE DISTURBED	
RUCTION OPERATIONS RFACED IN KIND.	
31C-15 N/F	
N/F SMITH COLLEGE DEED 860~421	
SCALE 60	
FEET	
AREA 1	

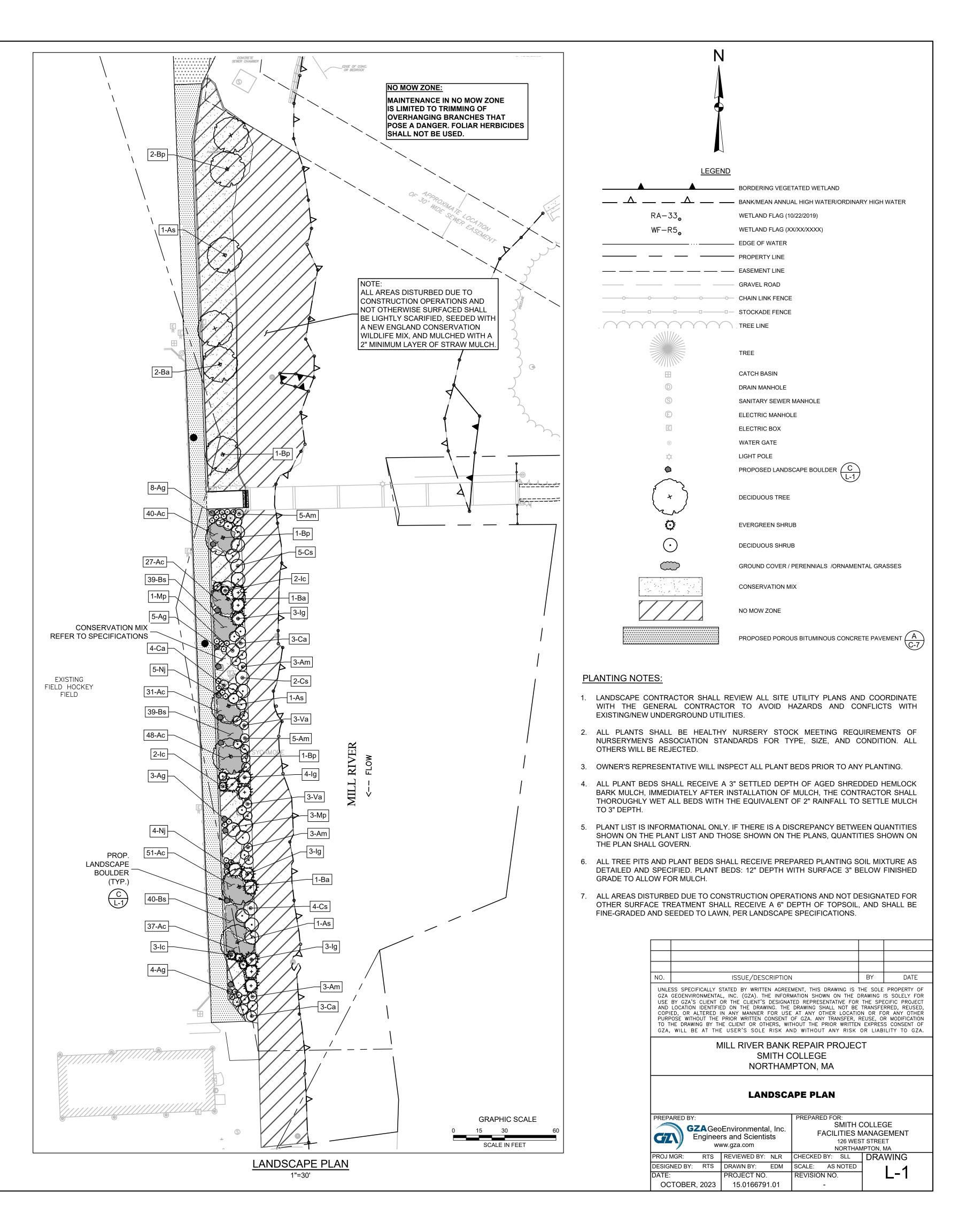


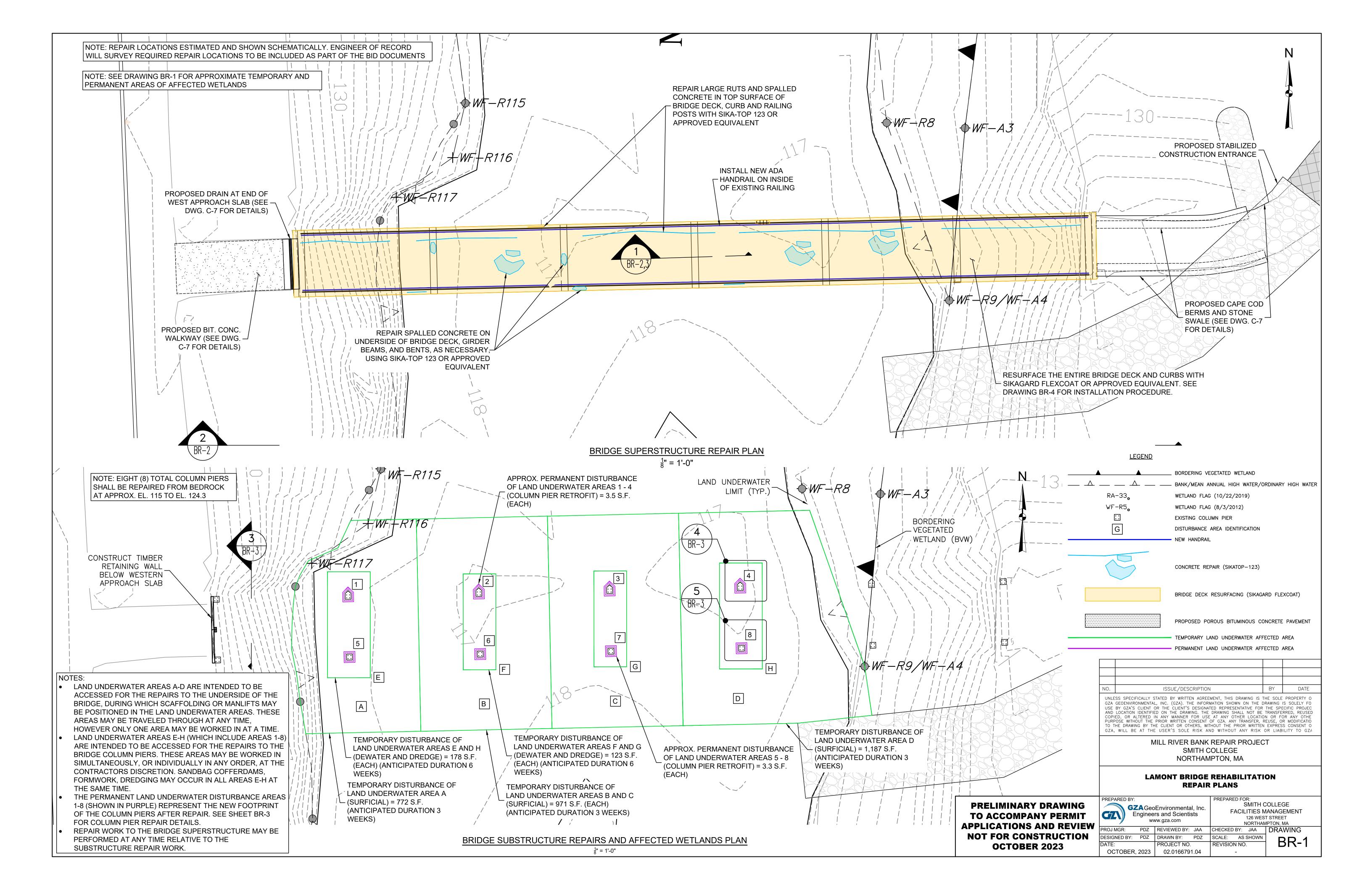
PRELIMINARY DRAWING TO ACCOMPANY PERMIT APPLICATIONS AND REVIEW NOT FOR CONSTRUCTION **OCTOBER 2023**

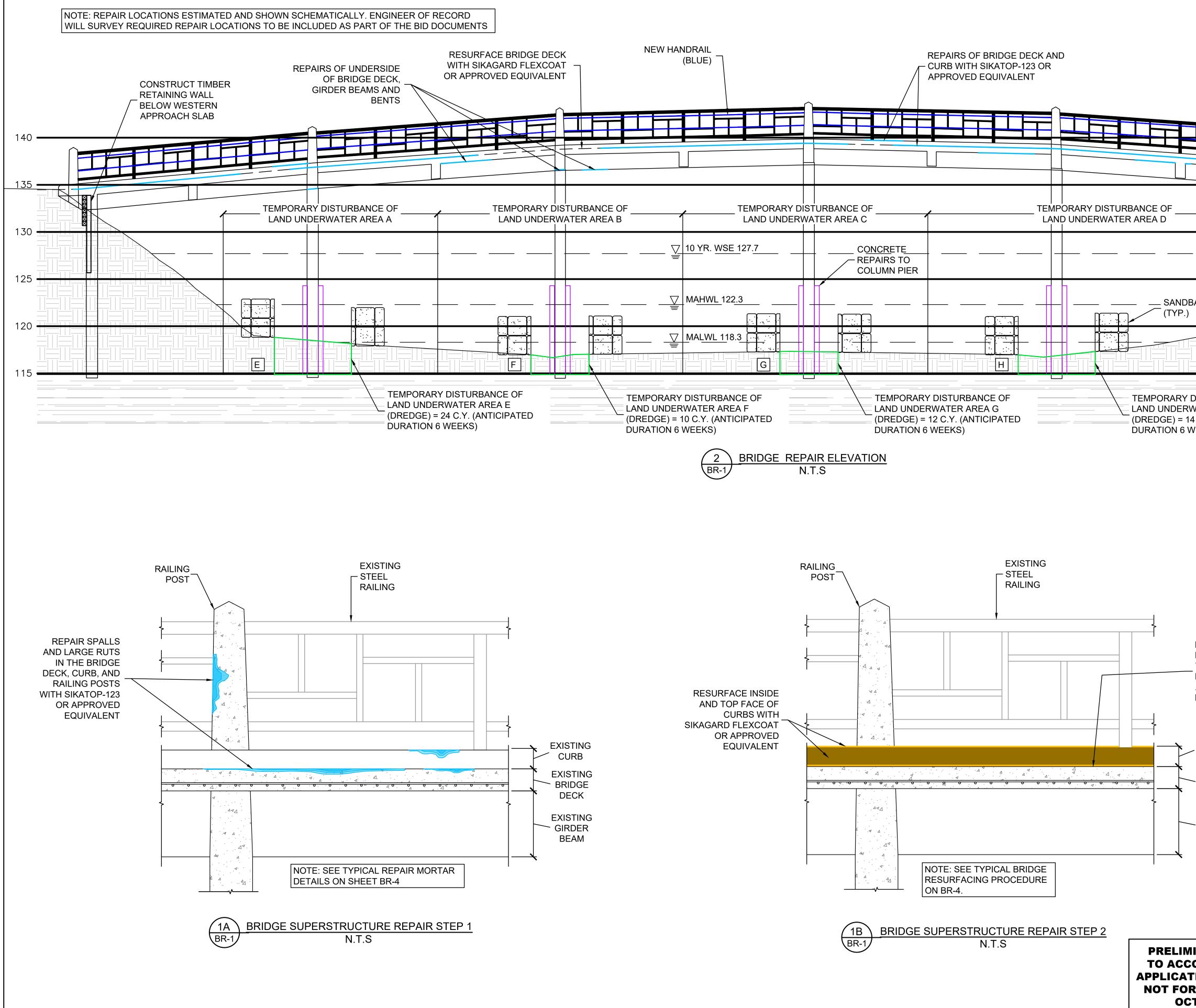
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MILL RIVER BANK REPAIR PROJECT SMITH COLLEGE NORTHAMPTON, MA						
FAILURE AREA 1 RESTORATION PLAN						
PREP/	Enginee	Environmental, Inc. rs and Scientists w.gza.com	PREPARED FOR: SMITH COLLEGE FACILITIES MANAGEMENT 126 WEST STREET NORTHAMPTON, MA			
PROJ I	MGR: RTS	REVIEWED BY: NLR	CHECKED BY: SLL	- <u> </u>	WING	
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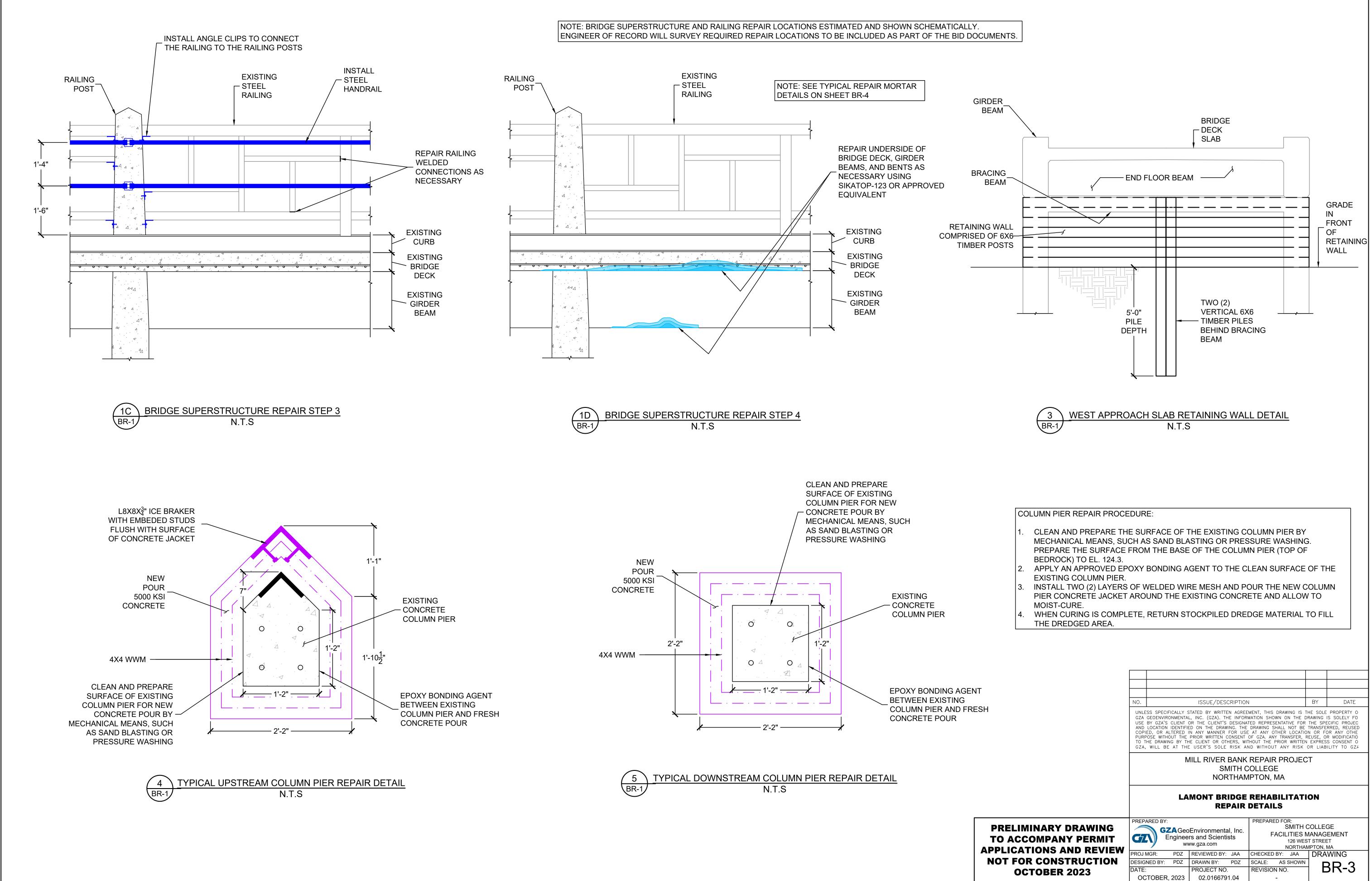
OCTOBER 2023

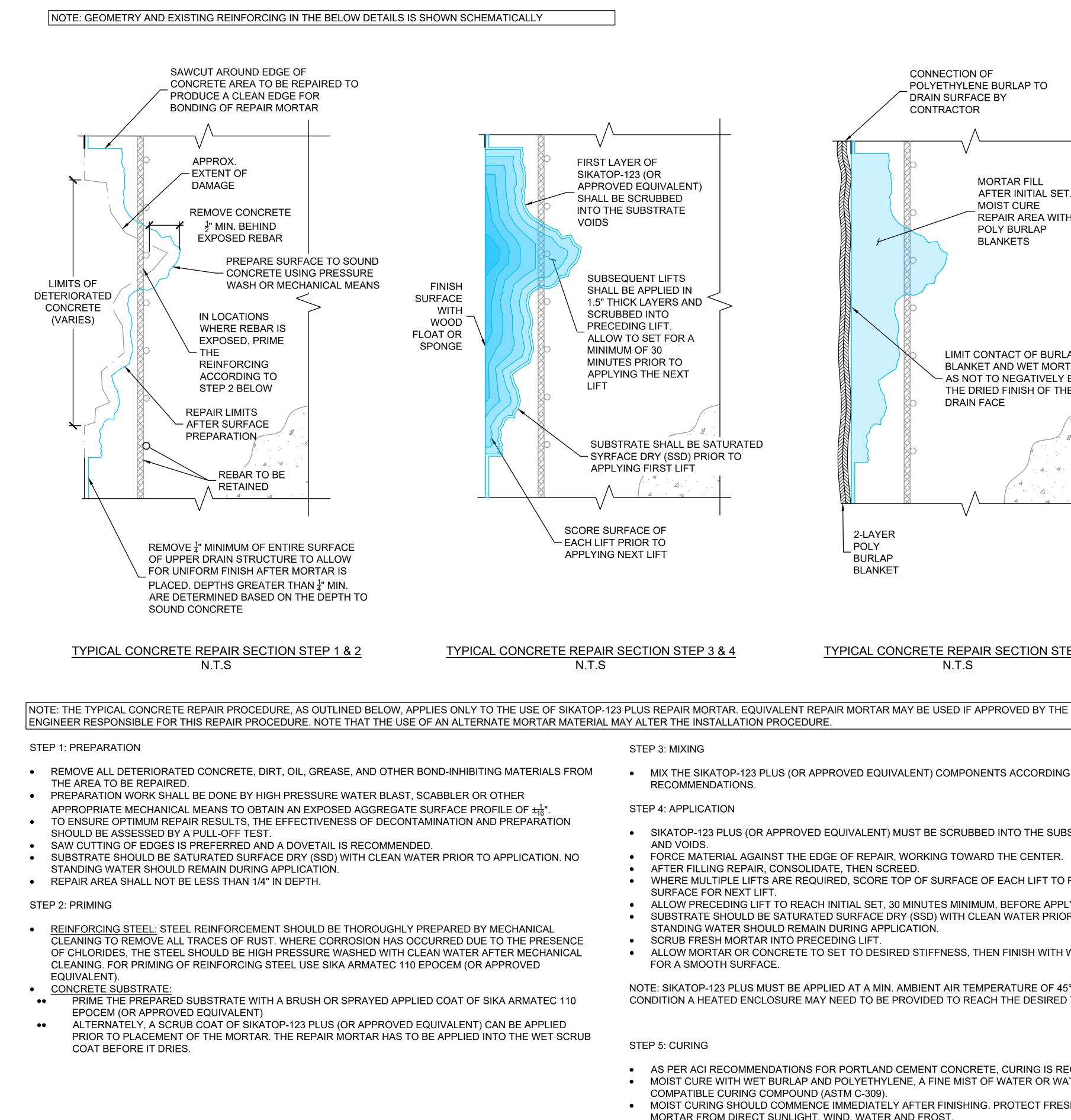


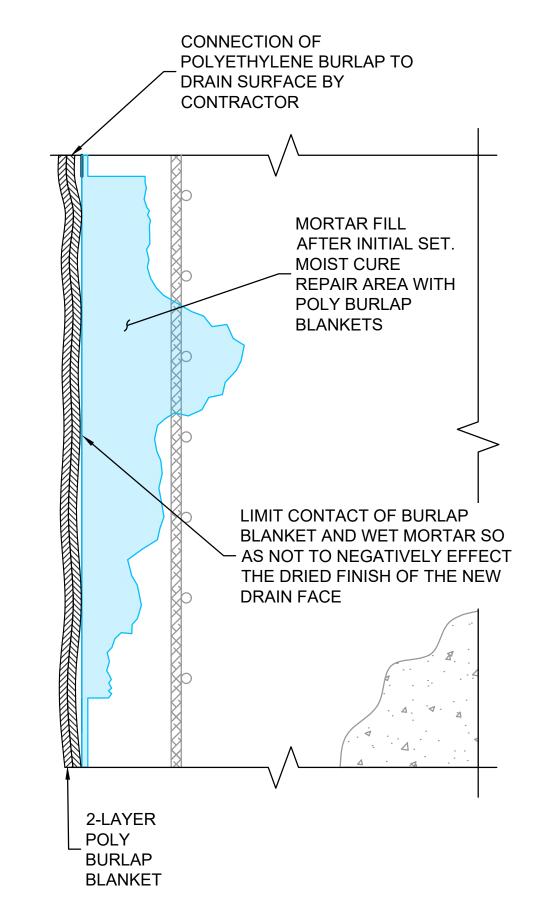




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-		NE [*]	N HANDRAIL	
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BRIDGE DECK – WITH SIKAGARD FLEXCOAT OR APPROVED		BR	RMANENT LAND UNDERW/ DGE DECK AND CURB SURFACING (SIKAGARD F	
EQUIVALENT		EAF	RTH	
EXISTING CURB		BE	DROCK	
EXISTING BRIDGE DECK				
EXISTING GIRDER BEAM	GZA GEOENVIRONMENTAL, USE BY GZA'S CLIENT O AND LOCATION IDENTIFIEL COPIED, OR ALTERED IN PURPOSE WITHOUT THE F TO THE DRAWING BY THE	, INC. (GZA). THE INFO R THE CLIENT'S DESIGN O ON THE DRAWING. TH ANY MANNER FOR U PRIOR WRITTEN CONSEN E CLIENT OR OTHERS, N	DN EEMENT, THIS DRAWING IS TH RMATION SHOWN ON THE DI IATED REPRESENTATIVE FOR IE DRAWING SHALL NOT BE SE AT ANY OTHER LOCATION SE AT ANY OTHER LOCATION OF GZA. ANY TRANSFER, R VITHOUT THE PRIOR WRITTEN AND WITHOUT ANY RISK (RAWING IS SOLELY FO THE SPECIFIC PROJEC TRANSFERRED, REUSED N OR FOR ANY OTHE EUSE, OR MODIFICATIO EXPRESS CONSENT O
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GIRDER	UNLESS SPECIFICALLY ST GZA GEOENVIRONMENTAL, USE BY GZA'S CLIENT O AND LOCATION IDENTIFIEI COPIED, OR ALTERED IN PURPOSE WITHOUT THE F TO THE DRAWING BY THE GZA, WILL BE AT THE M LAI RE PREPARED BY: GZA GeoE Engineer: ww	TATED BY WRITTEN AGR , INC. (GZA). THE INFO R THE CLIENT'S DESIGN O ON THE DRAWING. TH ANY MANNER FOR U PRIOR WRITTEN CONSEN E CLIENT OR OTHERS, N USER'S SOLE RISK ILL RIVER BANI SMITH NORTHA	EEMENT, THIS DRAWING IS TI RMATION SHOWN ON THE DI IATED REPRESENTATIVE FOR IE DRAWING SHALL NOT BE SE AT ANY OTHER LOCATION T OF GZA. ANY TRANSFER, R WITHOUT THE PRIOR WRITTEN AND WITHOUT ANY RISK (K REPAIR PROJEC COLLEGE MPTON, MA E REHABILITATION TION AND DETAIL PREPARED FOR: SMITH (FACILITIES M 126 WES	HE SOLE PROPERTY O RAWING IS SOLELY FO THE SPECIFIC PROJEC TRANSFERRED, REUSED N OR FOR ANY OTHE EUSE, OR MODIFICATIO EXPRESS CONSENT O DR LIABILITY TO GZ/ T







SIKAGARD FLEXCOAT SYSTEM INSTALLATION PROCEDURE: (TO BE USED FOR BRIDGE DECK AND CURB RESURFACING)

STEP 1: PREPARATION

- AN OPEN TEXTURED SURFACE ICRI CSP-3 IS RECOMMENDED.
- PRODUCTS.

STEP 2: MIXING

- UNIFORM CONSISTENCY, MAXIMUM 3 MINUTES.

STEP 3: APPLICATION

- PRE-WET SURFACE TO SSD (SATURATE SURFACE DRY).
- THICKNESS OF 60 MILS (1.5 MM).
- FINISH TO SPECIFIED TEXTURE.

STEP 4: COLOR FINISH (OPTIONAL)

ROLLER, BRUSH OR SPRAY.

TYPICAL CONCRETE REPAIR SECTION STEP 5 N.T.S

• MIX THE SIKATOP-123 PLUS (OR APPROVED EQUIVALENT) COMPONENTS ACCORDING TO THE MANUFACTURER'S

- SIKATOP-123 PLUS (OR APPROVED EQUIVALENT) MUST BE SCRUBBED INTO THE SUBSTRATE, FILLING ALL PORES
- FORCE MATERIAL AGAINST THE EDGE OF REPAIR. WORKING TOWARD THE CENTER.
- AFTER FILLING REPAIR, CONSOLIDATE, THEN SCREED.
- WHERE MULTIPLE LIFTS ARE REQUIRED, SCORE TOP OF SURFACE OF EACH LIFT TO PRODUCE A ROUGHENED
- ALLOW PRECEDING LIFT TO REACH INITIAL SET, 30 MINUTES MINIMUM, BEFORE APPLYING FRESH MATERIAL. SUBSTRATE SHOULD BE SATURATED SURFACE DRY (SSD) WITH CLEAN WATER PRIOR TO APPLICATION. NO
- STANDING WATER SHOULD REMAIN DURING APPLICATION.
- SCRUB FRESH MORTAR INTO PRECEDING LIFT.
- ALLOW MORTAR OR CONCRETE TO SET TO DESIRED STIFFNESS, THEN FINISH WITH WOOD OR SPONGE FLOAT

NOTE: SIKATOP-123 PLUS MUST BE APPLIED AT A MIN. AMBIENT AIR TEMPERATURE OF 45°F. TO ACHIEVE THIS CONDITION A HEATED ENCLOSURE MAY NEED TO BE PROVIDED TO REACH THE DESIRED TEMPERATURE.

- AS PER ACI RECOMMENDATIONS FOR PORTLAND CEMENT CONCRETE, CURING IS REQUIRED.
- MOIST CURE WITH WET BURLAP AND POLYETHYLENE, A FINE MIST OF WATER OR WATER BASED COMPATIBLE CURING COMPOUND (ASTM C-309).
- MOIST CURING SHOULD COMMENCE IMMEDIATELY AFTER FINISHING. PROTECT FRESHLY APPLIED MORTAR FROM DIRECT SUNLIGHT, WIND, WATER AND FROST.

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 SURFACE MUST BE CLEAN AND SOUND. REMOVE ALL DETERIORATED CONCRETE, DIRT, OIL, GREASE, AND OTHER BOND-INHIBITING MATERIALS FROM THE AREA TO BE REPAIRED.

• DEEPER AREAS SHALL BE PATCHED WITH APPROPRIATE PATCH MATERIAL LIKE SIKAQUICK® OR SIKAREPAIR®

 PLACE THE LIQUID COMPONENT IN APPROPRIATE MIXING CONTAINER. IT IS ALWAYS RECOMMENDED TO START MIXING WITH APPROXIMATELY 80 % OF THE LIQUID. ADD THE POWDER WHILE CONTINUING TO MIX WITH A LOWSPEED DRILL (400–600 RPM) AND PADDLE. MIX TO A

ENSURE GOOD INTIMATE CONTACT WITH THE SUBSTRATE IS ACHIEVED.

• SIKAGARD® FLEXCOAT CAN BE APPLIED IN MULTIPLE COATS BY BRUSH, ROLLER, TROWEL OR SPRAY TO A TYPICAL APPLY FIRST COAT OF SIKAGARD® FLEXCOAT. APPLY FOLLOWING COATS (ONE OR TWO DEPENDING ON SERVICE) CONDITIONS/ REQUIREMENTS) BY BRUSH, TROWEL ROLLER OR SPRAY.

PROTECT NEWLY APPLIED SIKAGARD® FLEXCOAT FROM DIRECT SUNLIGHT, WIND, RAIN AND FREEZING.

APPLY SIKAGARD ® FLEXCOAT ATC ACRYLIC TOP COAT FOR COLOR FINISH, WHEN SPECIFIED, IN TWO COATS BY

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