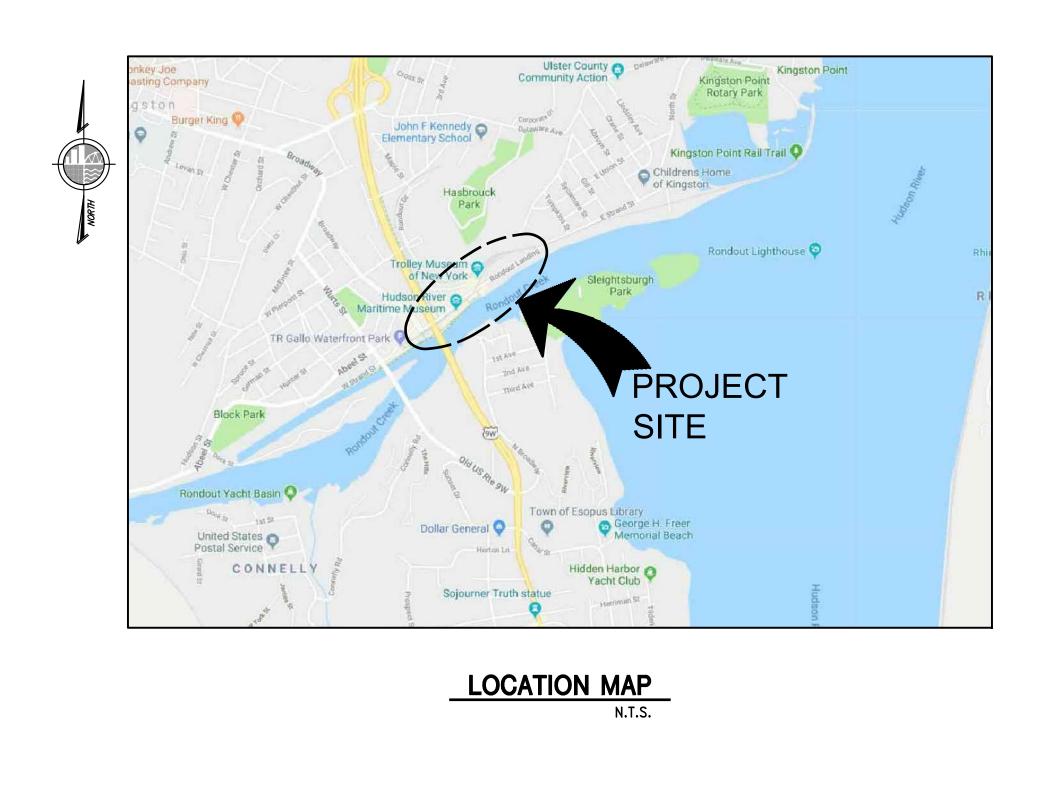
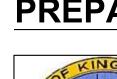
KINGSTON, NEW YORK APRIL 17, 2018

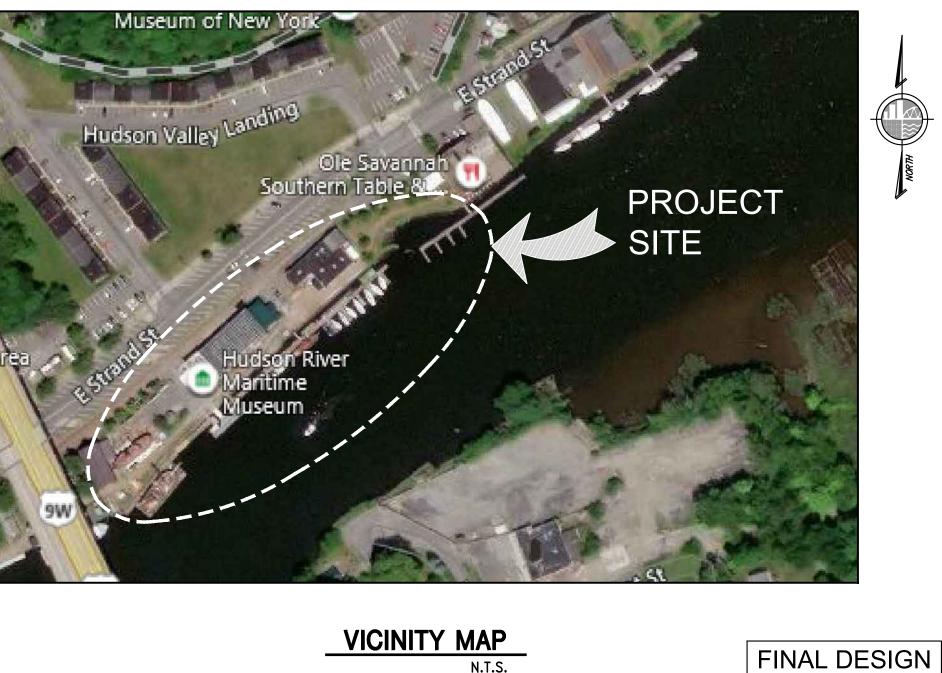






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13	C-201	OVERALL GRADING AND DRAINAGE PLAN		
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24	C-501	EROSION AND SEDIMENT CONTROL DETAILS		
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		· · ·		
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55	MR-408	MISCELLANEOUS DETAILS – 4		
56	MR-409	MISCELLANEOUS DETAILS - 5		





PREPARED FOR:



City of Kingston, NY City Hall, 420 Broadway Kingston, NY 12401

MAYOR HONORABLE STEVEN T. NOBLE

ALDERMEN JEFFREY VENTURA MORELL DOUGLAS KOOP REYNOLDS SCOTT-CHILDRESS RITA WORTHINGTON DONALD TALLERMAN TONY DAVIS PATRICK O'REILLY STEVEN SCHABOT MICHELE HIRSCH

CITY ENGINEER JOHN SHULTHEIS



DESIGN CRITERIA

1.		CCORDANCE WITH THE 2015 INTERNATIONAL BUILDING N ACCORDANCE WITH THE CODE AND LOCAL
2.	DESIGN CRITERIA: A. DEAD LOAD = B. LIVE LOAD = C. BULKHEAD LIVE LOAD SURCHARGE = D. FLOOD ZONE = E. WIND LOAD (ASCE 7-10) RISK CATEGORY = EXPOSURE CATEGORY = MOORING WIND SPEED CRITERIA = 45 MAXIMUM SAFE HARBOR WIND SP RIP RAP WIND SPEED CRITERIA = 115	ZONE AE (EL. 8) II C MPH (30 SEC GUST) EED
	F. WAVE MOORING CRITERIA DESIGN WAVE HEIGHT = 1.47 FT DESIGN WAVE PERIOD = 1.80 SEC RIP RAP CRITERIA DESIGN WAVE HEIGHT = 1.60 FT DESIGN WAVE PERIOD = 2.20 SEC	

GENERAL NOTES:

1. ALL WORK SHALL CONFORM WITH ALL FEDERAL, STATE, COUNTY, OR LOCAL CODES HAVING JURISDICTION OVER SUCH WORK. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THAT PORTION OF THE WORK.

2. CONTRACTOR IS SOLELY RESPONSIBLE FOR MEANS, METHODS, AND SAFETY OF WORK.

3. DIMENSIONS SHOWN ON THESE CONTRACT PLANS HAVE BEEN OBTAINED FROM LIMITED FIELD SURVEY AND MAY NOT ACCURATELY REFLECT PRESENT FIELD CONDITIONS. ACCORDINGLY. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAKING FIELD MEASUREMENTS OF ALL EXISTING STRUCTURES IMPACTED BY THE NEW WORK TO ASSURE CONSISTENCY WITH THE PROPOSED CONSTRUCTION PLANS; THAT IS, THE CONTRACTOR SHALL FIELD VERIFY ACTUAL CONDITIONS, DIMENSIONS, CLEARANCES, ELEVATIONS. AND OTHER INFORMATION INDICATED IN THE DOCUMENTS PRIOR TO ORDERING ANY MATERIALS, COMMENCING ANY FABRICATIONS, OR PERFORMING ANY WORK. THE CONTRACTOR SHALL NOTIFY THE OWNERS REPRESENTATIVE OF ANY FIELD CONDITIONS WHICH MAY DIFFER FROM THAT REPRESENTED PRIOR TO COMMENCING WORK.

4. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL VISIT THE SITE AND SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF ANY ADDITIONAL UTILITIES, STRUCTURES, OR ANY OTHER ELEMENTS WHICH MAY IMPEDE WORK. UTILITY AND/OR STRUCTURE RELOCATIONS, IF NECESSARY, SHALL BE COORDINATED THROUGH THE OWNER'S REPRESENTATIVE AND PAID UNDER CHANGE ORDER PROCESS.

5. PRIOR TO COMMENCING ANY WORK, THE CONTRACTOR SHALL SCHEDULE AND COORDINATE ALL WORK THROUGH THE OWNER'S REPRESENTATIVE AND ANY OTHER OCCUPYING TENANT WHO WILL BE AFFECTED BY REPAIR OPERATIONS. THE CONTRACTOR SHALL COORDINATE THE WORK SO AS TO MINIMIZE INTERRUPTIONS IN FACILITY OPERATIONS. (ACCESS AND EGRESS).

6. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE OSHA REGULATIONS AND SAFETY PROCEDURES TO ENSURE PERSONNEL HEALTH AND SAFETY. THE CONTRACTOR MUST MAINTAIN A SAFE AND CLEAN WORKING ENVIRONMENT AND SHALL ASSURE PROPER PERSONAL PROTECTIVE EQUIPMENT AT ALL TIMES. IN AREAS WHERE PEDESTRIAN AND/OR VEHICULAR TRAFFIC MAY BE AFFECTED BY THE WORK, THE CONTRACTOR SHALL CORDON OFF THE WORK AREA WITH FENCING.

7. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR COMPLIANCE WITH THE TERMS AND CONDITIONS OF ALL PERMITS ISSUED BY ANY REGULATING AGENCY HAVING JURISDICTION OVER THE WORK OF THIS PROJECT.

8. THE CONTRACTOR SHALL EXERCISE EXTREME CARE TO PREVENT DAMAGE TO EXISTING STRUCTURES BY OR AS A RESULT OF HIS OPERATIONS. ANY DAMAGE RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AS DIRECTED BY THE OWNER'S REPRESENTATIVE AT NO ADDITIONAL COST.

9. ALL DEBRIS AS A RESULT OF THE WORK WITHIN CONTRACT LIMITS SHALL BE RECOVERED AND PROPERLY DISPOSED OF.

10. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT ALL CONSTRUCTION DEBRIS OR WASTE FROM FALLING INTO THE WATER. ANY DEBRIS FALLING INTO THE WATER SHALL BE RECOVERED AND PROPERLY DISPOSED.

COMPLIANCE WITH ENVIRONMENTAL PERMITS:

1. THE PERMIT CONDITIONS OUTLINED IN THESE NOTES ARE FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR READING AND COMPLYING WITH ALL CONDITIONS STIPULATED IN THE PERMITS ISSUED BY THE REGULATORY AGENCIES. PERMITS PENDING APPROVAL INCLUDE: NYSDEC: PENDING USACE: PENDING

2. THE PLANS CONTAINED HEREIN WERE PREPARED IN ACCORDANCE WITH THE ENVIRONMENTAL PERMIT(S). THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES BETWEEN THE PLANS AND PERMIT(S). WORK PERFORMED BY CONTRACTOR WHICH IS FOUND NONCOMPLIANT WITH PERMIT CONDITIONS SHALL BE REMOVED BY THE CONTRACTOR AT NO ADDITIONAL COST.

3. CONTRACTOR IS RESPONSIBLE FOR CONSPICUOUSLY POSTING THE PERMIT SIGN ENCLOSED WITH THE PERMIT(S) IN A PUBLICLY ACCESSIBLE LOCATION AND MAINTAINING A COPY OF THE ENVIRONMENTAL PERMIT(S) ON SITE AT ALL TIMES.

4. NOTICE TO COMMENCE WORK: THE OWNER IS RESPONSIBLE FOR NOTIFYING THE REGULATORY AGENCIES AT LEAST SEVEN (7) DAYS PRIOR TO START OF WORK. CONTRACTOR SHALL PROVIDE OWNER WITH AN INTENDED WORK COMMENCEMENT SCHEDULE PER CONTRACT REQUIREMENTS.

THIS DOCUMENT WAS PREPARED WITH FUNDING PROVIDED BY THE NEW YORK STATE DEPARTMENT OF STATE UNDER TITLE 11 OF THE ENVIRONMENTAL PROTECTION FUND.

WARNING — IT IS A VIOLATION OF NEW YORK STATE EDUCATIONAL LAW, SECTION 7209.2, FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR. TO ALTER THIS OCUMENT IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK EDUCATIONAL LAW, SECTION 7209.2

5. ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO PRECLUDE CONTAMINATION OF ANY WETLAND OR WATERWAY BY SUSPENDED SOLIDS, SEDIMENTS, FUELS, SOLVENTS, LUBRICANTS, EPOXY COATINGS, PAINTS, CONCRETE, LEACHATE OR ANY OTHER ENVIRONMENTALLY DELETERIOUS MATERIALS ASSOCIATED WITH THE PROJECT.

6. NOTICE OF PROJECT COMPLETION: THE CONTRACTOR SHALL NOTIFY THE REGULATORY AGENCIES UPON COMPLETION OF WORK.

SUBMITTALS:

THE CONTRACTOR SHALL SUPPLY ALL SUBMITTALS STATED BELOW AND LISTED IN THE PROJECT SPECIFICATIONS: 1. DEMOLITION PLAN SHOWING ALL PROPOSED REMOVALS AND EXCAVATIONS. PLAN SHALL INCLUDE TEMPORARY SHORING AS NEEDED.

- 2. SHOP DRAWINGS/ERECTION DRAWINGS:
- CAST-IN-PLACE CONCRETE REBAR LAYOUTS
- STEEL SHEET PILE, TIEBACK AND DEADMAN SYSTEM - COMBINATION WALL SYSTEM
- MOORING PILE PLAN
- RIP RAP STONE PLAN AND GRADATIONS
- EXCAVATION PLAN – JOINT PLAN
- STEEL MEMBER/WALE SHOP DRAWINGS
- 3. PRODUCT DATA:
- COATING SYSTEM
- 4. TESTING RESULTS:
- SEALED BY AN ENGINEER REGISTERED IN THE STATE OF NEW YORK. C231 FOR NORMAL WEIGHT CONCRETE.
- 5. CERTIFICATES
- LABORATORY SPECIFICATION
- WEIGH SCALE CERTIFICATION - SCALE TICKETS
- STEEL SHAPE MIL CERTIFICATES
- WELDERS AWS CERTIFICATES
- 6. CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT PLAN AND WASTE MANAGEMENT LOGS.

SHOP DRAWINGS:

1. CALCULATIONS TO BE PREPARED UNDER THE SUPERVISION OF AND STAMPED BY A P.E. REGISTERED IN NEW YORK STATE.

2. THE SHOP DRAWINGS SHALL CONTAIN ALL DIMENSIONAL AND GEOMETRIC INFORMATION. MATERIALS SHALL NOT BE ORDERED, FABRICATED, OR DELIVERED BEFORE THE SHOP DRAWINGS HAVE BEEN APPROVED.

3. PRIOR TO REVIEW OF THE SHOP DRAWINGS BY THE ENGINEER, SUCH SHOP DRAWINGS SHALL HAVE BEEN REVIEWED AND APPROVED BY THE CONTRACTOR AND SHALL BE STAMPED TO INDICATE THIS BY THE CONTRACTOR. SUCH APPROVAL BY THE CONTRACTOR SHALL CONSTITUTE THE CONTRACTOR'S REPRESENTATION THAT THE CONTRACTOR HAS VERIFIED ALL QUANTITIES, DIMENSIONS, SPECIFIED PERFORMANCE CRITERIA, INSTALLATION REQUIREMENTS, MATERIALS, CATALOG NUMBERS AND SIMILAR DATA WITH RESPECT THERETO AND HAS REVIEWED OR COORDINATED EACH SHOP DRAWING WITH OTHER SHOP DRAWINGS AND SAMPLES AND WITH THE REQUIREMENTS OF THE WORK AND THE CONTRACT DRAWINGS AND SPECIFICATIONS.

4. ALL WELDS SHALL BE INDICATED BY STANDARD WELDING SYMBOLS AS DEFINED BY AWS AND ENGINEERING STRESS CALCULATIONS THAT ARE APPROVED BY THE AWS. SHOP DRAWINGS SHALL SHOW THE SIZE, LENGTH, AND TYPE OF EACH WELD.

5. SHOP DRAWINGS SHALL BE SUBMITTED IN COMPLETE PACKAGES SO THAT INDIVIDUAL PARTS AND THE ASSEMBLED UNIT MAY BE REVIEWED TOGETHER.

6. THE REVIEW OF SHOP DRAWINGS BY THE ENGINEER SHALL NOT IN ANY WAY RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY FOR THE ADEQUACY OF THE DESIGN OF THE CONNECTIONS AND ALL REQUIRED DETAILING, THE RESPONSIBILITY FOR THE PROPER FITTING OF THE WORK IN STRICT CONFORMANCE WITH THE CONTRACT REQUIREMENTS AND FROM THE NECESSITY OF FURNISHING MATERIAL AND WORKMANSHIP REQUIRED BY CONTRACT DRAWINGS AND SPECIFICATIONS IN ADDITION TO THAT INDICATED ON THE SHOP DRAWINGS.

7. THE CONTRACTOR SHALL KEEP A COMPLETE SET OF SHOP DRAWINGS BEARING THE ENGINEER'S ACCEPTANCE STAMP ON THE JOB SITE AT ALL TIMES SUBSEQUENT TO SUCH ACCEPTANCE.

DEMOLITION:

1. THE CONTRACTOR SHALL SUBMIT TO THE OWNERS REPRESENTATIVE, A REMOVAL SCHEDULE, AND A TEMPORARY SHORING PLAN AS MAY BE REQUIRED FOR DEMOLITION AND REMOVALS. THE TEMPORARY SHORING PLAN SHALL BE DESIGNED AND PREPARED BY A PROFESSIONAL ENGINEER. LICENSED IN THE STATE OF THIS WORK. THE CONTRACTOR SHALL NOT COMMENCE WORK WITHOUT APPROVAL FROM THE OWNERS REPRESENTATIVE OF THE DEMOLITION AND REMOVAL SCHEDULE AND THE TEMPORARY SHORING PLAN.

2. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING, IDENTIFYING AND MARKOUT OF ALL UTILITIES PRIOR TO START OF DEMOLITION WORK.

3. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND STAGING DEMOLITION WORK WITH OTHER CONSTRUCTION ACTIVITIES AT THE SITE.

4. THE CONTRACTOR SHALL PERFORM ALL WORK WITH CARE SO THAT ANY MATERIALS WHICH ARE TO REMAIN IN PLACE, OR WHICH ARE TO REMAIN THE PROPERTY OF THE OWNER OR TENANT, WILL NOT BE DAMAGED. IF CONTRACTOR DAMAGES ANY MATERIALS WHICH ARE TO REMAIN IN PLACE, OR WHICH ARE TO REMAIN THE PROPERTY OF THE OWNER OR TENANT, DAMAGED MATERIALS SHALL BE REPAIRED OR REPLACED IN A MANNER SATISFACTORY TO OWNER'S REPRESENTATIVE AT THE EXPENSE OF THE CONTRACTOR.

5. WHENEVER ITEMS IN THE CONTRACT REQUIRE MATERIALS TO BE REMOVED AND DISPOSED, THE COST OF SUPPLYING A DISPOSAL AREA AND TRANSPORTATION TO THAT AREA SHALL BE INCLUDED IN THE PRICE BID FOR THOSE ITEMS.

6. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT ALL CONSTRUCTION DEBRIS OR WASTE FROM FALLING INTO THE WATER. ANY DEBRIS FALLING INTO THE WATER SHALL BE RECOVERED AND LEGALLY DISPOSED OF AT NO ADDITIONAL COST TO THE OWNER.

- PRELIMINARY DESIGN MIX TEST REPORTS (ACI-301) OR VERIFICATION OF MIX DESIGNS BASED ON STANDARD DEVIATION ANALYSIS. THE MIX DESIGN SUBMITTAL MUST BE SIGNED AND

- AIR ENTRAINMENT TESTING (ASTM C173) FOR NORMAL AND LIGHTWEIGHT CONCRETE AND ASTM

EXCAVATION AND BACKFILI

1. WHENEVER ITEMS IN THE CONTRACT REQUIRE MATERIALS TO BE REMOVED AND DISPOSED, THE COST OF SUPPLYING A DISPOSAL AREA AND TRANSPORTATION TO THAT AREA SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR THOSE ITEMS.

2. EXCAVATION SHALL INCLUDE REMOVAL OF PAVEMENTS, FOUNDATIONS, AND ALL OTHER MATERIALS INCLUDING BOULDERS AND COBBLES, IF ENCOUNTERED.

3. EXCAVATIONS SHALL BE TO ELEVATIONS REQUIRED FOR INSTALLATION OF PERMANENT CONSTRUCTION WITHOUT DISTURBANCE TO SUBGRADE BELOW SUCH ELEVATIONS.

4. BACKFILLING SHALL INCLUDE FILLING OF EXCAVATIONS MADE FOR CONSTRUCTION PURPOSES, EXTENDING TO EXISTING OR DESIGN GRADE.

5. ALL TRUCKS USED TO TRANSPORT EXCAVATED MATERIALS SHALL BE TARPED PURSUANT TO THE APPLICABLE NYDOT REQUIREMENTS OR APPLICABLE REGULATORY AGENCY REQUIREMENTS.

6. BACKFILL SHALL BE PLACED IN EIGHT INCH MAXIMUM LOOSE LIFTS AND COMPACTED TO PROVIDE 95% OF MAXIMUM DRY DENSITY PER ASTM D-1556. MOISTURE CONTENT SHALL BE MAINTAINED WITHIN A RANGE OF PLUS OR MINUS 2% OF OPTIMUM.

7. CONTRACTOR TO ENSURE THAT TIE RODS ARE FULLY SUPPORTED BY COMPACTED BACKFILL BEFORE VERTICAL LOADS ARE APPLIED.

UTILITIES:

1. ALL UTILITIES MUST REMAIN ACTIVE AND BE PROTECTED DURING CONSTRUCTION.

2. CONTRACTOR TO LOCATE, SURVEY, AND MARK OUT ALL EXISTING UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. ADDITIONALLY, ANY UTILITY RIGHT-OF-WAY OR EASEMENTS MUST BE VERIFIED. DRIVING SHEETS OR PILES WITHIN A UTILITY RIGHT-OF-WAY OR EASEMENT IS NOT ALLOWED.

3. CONTRACTOR TO VERIFY DEPTH OF ALL BURIED UTILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

4. SHOULD ANY DISCREPANCY ARISE, CONTRACTOR TO NOTIFY THE ENGINEER AND SUBMIT A REVISED BULKHEAD LAYOUT WITH CALCULATIONS STAMPED BY A PROFESSIONAL ENGINEER.

		BY
		REVISION
		NO. DATE
A CLARERING ROUP	The Detroon Building & Clinton Sculare Albany NY 12007	T: 518.992.4830 www.mgmclaren.com
KINGSTON WATERFRONT RESILIENCY DESIGN		KINGS ION, NEW YORK
SHEET TITLE		
GENERAL NOTES - 1		
PROJECT NO. SCALE AS DATE 04/1 DRAWN BY CHECKED BY	N	ED)18 GD
DRAWING NO. G-001. <u>2</u> of <u>56</u>	0(



	STRUCTURAL STEEL:	STEEL PIPE PILES:
2	 STEEL CONSTRUCTION SHALL CONFORM TO AISC "STEEL CONSTRUCTION MANUAL", FOURTEENTH EDITION, AND SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" AS ADOPTED JUNE 15, 2016. 	1. MAXIMUM ALLOWABLE DEVIATION FOR PILES SHAI EXCEPT EIGHT (8) INCHES ALONG GRADE BEAM BE ACCEPTED. CONTRACTOR SHALL PROVIDE SUB
	2. MATERIALS FOR STRUCTURAL STEEL AND HARDWARE SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS UNLESS OTHERWISE NOTED: SHEET PILING ASTM A572, GR 50 ROLLED SHAPES ASTM A572, GR 50	NORTH-SOUTH AND EAST-WEST OUT OF TOLERA CENTERLINE. PILES WHICH ARE OUT OF TOLERAN STRENGTH WILL BE SUBJECT TO REDESIGN. THE ADDITIONAL PILES AND ADDITIONAL PILE CAP CO
	OTHER SHAPES AND PLATES ASTM A572, GR 50 TIE RODS ASTM A615, GR 75 BOLTS ASTM F3125, GRADE A325	2. STEEL PIPE PILES SHALL HAVE MAXIMUM SWEEP SITE.
0	HEX NUTS ASTM F563 WASHERS ASTM F436	3. IF REFUSAL OR ANY OBSTRUCTIONS ARE ENCOUN MINIMUM ALLOWABLE CAPACITY AND EMBEDMENT,
1 0.5	 3. GALVANIZING: ALL STRUCTURAL STEEL SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION UNLESS OTHERWISE NOTED, IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE SPECIFICATIONS AND OTHER REQUIREMENTS LISTED BELOW: A. SPECIFICATIONS FOR ZINC (HOT-GALVANIZED) COATINGS ON PRODUCTS FABRICATED FROM ROLLED, DRESSED AND FORGED STEEL SHAPES, PLATES AND STRIP - ASTM A123, GR 100. B. SPECIFICATION FOR ZINC COATING (HOT-DIP) ON IRON AND STEEL HARDWARE - ASTM A153. C. THE ZINC COATING SHALL WEIGH NOT LESS THAN 2 OUNCES PER SQUARE FOOT. D. ZINC DUST-ZINC OXIDE PRIMER CONFORMING TO MILITARY SPECIFICATION MIL-P-21035 SHALL BE APPLIED IN 2 COATS FOR REPAIRS TO DAMAGED SURFACES AFTER REMOVAL OF LOOSE OR CRACKED ZINC COATING. E. PRIOR TO GALVANIZING, ALL WELDED CONNECTIONS SHALL BE SEALED ALL AROUND WITH A 	 4. MOORING PILES SHALL CONFORM TO THE FOLLOWA. ALL PILES SHALL COMFORM TO A252 GRADEB. ALL PILES SHALL BE DRIVEN OPEN ENDED UIC. A TOTAL OF TWELVE (12) INDICATOR PILES SHALL BE PRODUCTION PILEATTACHED TO THE PILE IN ACCORDANCE WITHD. PILES SHALL BE 16" DIAMETER WITH ½" THICALLOWABLE AXIAL COMPRESSION CAPACITY OF EMBEDMENT OF 60 FEET. ALLOWABLE AXIAL TULTIMATE)
	SEAL WELD. BOLTED CONNECTIONS SHALL NOT BE MADE PRIOR TO GALVANIZING.	5. THE CONNECTION OF PILE SECTIONS SHALL DEV PILE SPLICES SHALL BE COMPLETED WITH PREQU
	STEEL SHEET PILES:	WELDS. CONTRACTOR TO PROVIDE AND SUBMIT (AND SEALED BY A LICENSED PROFESSIONAL ENG FOR APPROVAL.
	1. ALL STEEL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE AISC STEEL MANUAL AND THE AWS D1.1 STRUCTURAL WELDING CODE.	6. STEEL PIPE PILES SHALL BE SHOP PAINTED WIT
	2. STEEL SHEET PILE SHALL CONFORM TO ASTM A572, GR 50 WITH A MINIMUM YIELD STRENGTH OF 50 KSI.	TAR SERIES 46H-413 POLYMIDE EPOXY-COAL TA STEEL SURFACE SHALL BE PREPARED IN ACCORE CLEANING. TOUCH UP ABRADED AND DAMAGED A
	3. STEEL SHEET PILES SHALL BE INTERLOCKED AT THEIR CONNECTION NODES TO ASSURE A CONTINUOUS STRUCTURE THROUGHOUT THEIR ENTIRE LENGTH.	MANUFACTURER'S RECOMMENDATION. MINIMUM DF PILES SHALL BE COATED FROM APPROXIMATELY
	4. STEEL SHALL BE PROTECTED FROM CORROSION, DEFORMATION, AND OTHER TYPES OF DAMAGE. STORE ITEMS IN AN ENCLOSED AREA FREE FROM CONTACT WITH SOIL AND WEATHER. REMOVE AND REPLACE DAMAGED ITEMS WITH NEW ITEMS.	PILE DRIVING:
	5. SHEET PILES AND INTERLOCKS SHALL NOT HAVE EXCESSIVE KINKS, CAMBER, OR TWISTS THAT WOULD PREVENT THE PILE FROM REASONABLY FREE SLIDING TO GRADE.	1. PILE DRIVING OPERATIONS SHALL BE PERFORMED ENGINEER LICENSED IN THE STATE OF NEW YOR OF PILE SHALL BE RECORDED AND SUBMITTED E
	6. SHEET PILES SHALL BE PLUMB AND STRAIGHT WITH ALL INTERLOCKS PROPERLY CONNECTED TO PREVENT LOSS OF MATERIAL.	2. MAXIMUM ALLOWABLE DRIVING DEVIATION FOR PI DIRECTION.
	7. TOLERANCES FOR SHEET PILE PLACEMENT SHALL BE: HORIZONTAL: 1" IN 5 FEET VERTICAL: 3/8" PER FOOT	3. PILES SHALL BE DRIVEN TO AN ALLOWABLE AXIA EMBEDMENT AS SHOWN ON PLANS.
ORowe	8. EXCEPT WHERE SHOWN ON THE CONTRACT DRAWINGS OR DIRECTED BY THE ENGINEER OF RECORD, SPLICING OF SHEET PILES SHALL NOT BE PERMITTED.	4. A TOTAL OF TWO (2) INDICATOR PILES SHALL B PILES SHALL BE PRODUCTION PILES SHOULD THE SHALL BE ATTACHED TO PILE IN ACCORDANCE W
BY:	9. STEEL SHEET PILES AND STEEL WALES SHALL BE SHOP PAINTED WITH 2 COATS OF HIGH BUILD COAL TAR EPOXY PRIOR TO DRIVING. STEEL SURFACE SHALL BE PREPARED IN ACCORDANCE WITH SSPC SP10 NEAR WHITE BLAST CLEANING. TOUCH UP ABRADED AND DAMAGED AREAS IN THE	5. TENSION LOAD TESTS SHALL ALSO BE PERFORME THE CAPACITY NOTED ABOVE.
0 – 4:29pm	FIELD. MINIMUM DRY FILM THICKNESS PER COAT = 8.0 MILS. SHEET PILES SHALL BE COATED FULL LENGTH, BOTH SIDES.	6. PILE DRIVING SHALL BE PERFORMED WITH A PNE DRIVE ALL PILES. ANY MATERIAL WHICH STOPS SHALL BE REMOVED BY THE CONTRACTOR AT NO
Apr 2020	10. THE MINIMUM EMBEDMENT LENGTH FOR THE STEEL SHEETING SHALL BE AS SHOWN ON PLAN.	7. CONTRACTOR SHALL PERFORM WAVE EQUATION
: Tue, 21 Apr		DEMONSTRATE THE REQUIRED PILE CAPACITY ANI SELECTED PILE DRIVING HAMMER. THE FINAL DRI SUBMITTED TO THE ENGINEER FOR REVIEW.
LAST SAVE:	WELDING:	8. CONTRACTOR SHALL SUBMIT PROPOSED PILE DRI FALSEWORK AS NECESSARY TO THE ENGINEER F
	1. ALL WELDING AND FABRICATION SHALL CONFORM WITH THE AMERICAN WELDING SOCIETY (AWS) REQUIREMENTS AND GUIDELINES.	0.01105575
– 9:58am	2. ALL WELDERS SHALL BE CERTIFIED BY AWS GUIDELINES.	<u>CONCRETE:</u> 1. ALL CONCRETE WORK SHALL CONFORM TO REQU
n 2020	3. UNLESS OTHERWISE INDICATED, ALL FILLET WELDS SHALL BE CONTINUOUS AND DOUBLE SIDED. ALL BUTT WELDS SHALL BE COMPLETE PENETRATION WELDS.	REQUIREMENT FOR STRUCTURAL CONCRETE (318-
, 17 Jun	4. ALL ELECTRODES USED SHALL COMPLY WITH ABS OR AWS SPECIFICATION AND SHALL BE E70XX LOW HYDROGEN.	2. ALL CORNERS SHALL BE $\frac{3}{4}$ " CHAMFERS UNLESS
TIME: Wed,	5. ANY DEFECTS SHALL BE CORRECTED IN ACCORDANCE WITH AWS RULES AT NO ADDITIONAL COST	3. ALL CONCRETE SHALL BE AIR ENTRAINED, 6% ± AGGREGATE. NO CARBONACEOUS AGGREGATES SH
PLOT TI	TO THE OWNER.	4. ALL CONCRETE SHALL USE TYPE CEMENT.
		5. ALL CONCRETE SHALL BE MIXED, TRANSPORTED STANDARDS 318 AND 304.
al note		6. FOLLOW ACI STANDARD 211.1 FOR MIXING WATE
60851\10_Dwgs\CADD\G-001s GENERAL NOTES.dwg		 ALL CONCRETE SHALL HAVE COMPRESSIVE STREN MAXIMUM W/C RATIO OF 0.40 UNLESS NOTED 0
\G-001		8. MAXIMUM CONCRETE SLUMP SHALL BE 4", PRIOF
\CADD'		9. TEST CYLINDERS SHALL BE TAKEN FROM THE MI
_Dwgs^		10. EXPANSION JOINTS SHALL BE NO MORE THAN 4
<u>351\10</u>		11. ALL CONCRETE SHALL HAVE A MIN. OF 3.0 GAL
60£		12. CONCRETE TRUCK WASHOUT PROCEDURES TO BE

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ALL BE THREE (3) INCHES IN ANY DIRECTION, AXIS FOR PILES CAPPED BY GRADE BEAMS WILL RVEY OF "AS-BUILT" PILE LOCATIONS INDICATING ANCE DIMENSIONS FROM THE THEORETICAL PILE NCE OR DO NOT ACHIEVE THE REQUIRED ENGINEERING COSTS OF THE REDESIGN, DST SHALL BE BORNE BY THE CONTRACTOR.

OF $1\frac{1}{2}$ " OVER THE LENGTH AS DELIVERED ON

NTERED PRIOR TO REACHING THE REQUIRED, NOTIFY ENGINEER IMMEDIATELY.

VING REQUIREMENTS:

3 (MIN. Fy = 45 KSI). INLESS OTHERWISE NOTED.

- SHALL BE DRIVEN WITHOUT INTERRUPTION.
- S. A PILE DRIVING ANALYZER SHALL BE
- H ASTM D4945. CK WALL. PILES SHALL BE DRIVEN TO AN
- TO TONS (60 TONS ULTIMATE) AND A MINIMUM TENSION CAPACITY SHALL BE 18 TONS (72 TONS

ELOP THE FULL BENDING CAPACITY OF THE PILE. UALIFIED COMPLETE JOINT PENETRATION GROOVE CONNECTION DETAILS AND CALCULATIONS SIGNED GINEER REGISTERED IN THE STATE OF NEW YORK

TH TWO (2) COATS OF TNEMEC HI-BUILD TNEME TAR OR APPROVED EQUAL PRIOR TO DRIVING. DANCE WITH SSPC SP10 NEAR WHITE BLAST AREAS IN THE FIELD IN ACCORDANCE WITH RY FILM THICKNESS PER COAT = 8.0 MILS. PIPE 15 FT BELOW MUDLINE/GRADE TO TOP OF PILE.

IN THE PRESENCE OF A PROFESSIONAL K, BLOWS PER FOOT, PILE ENERGY, AND DEPTH BY THE SUPERVISING PROFESSIONAL ENGINEER.

ILES SHALL BE THREE (3) INCHES IN EACH

AL CAPACITY NOTED ABOVE AND A MINIMUM

E DRIVEN WITHOUT INTERRUPTION. INDICATOR E CAPACITIES BE MET. A PILE DRIVING ANALYZER /ITH ASTM D4945.

ED ON THE TWO (2) INDICATOR PILES AND MEET

EUMATIC, DIESEL, OR VIBRATORY HAMMER TO THE DRIVING, INCLUDING EXISTING PILE STUBS D ADDITIONAL COST TO THE PARK.

ANALYSIS OF PILE DRIVING (WEAP) TO D/OR EMBEDMENT SHALL BE ACHIEVED WITH THE VING CRITERIA AND WEAP ANALYSIS SHALL BE

VING EQUIPMENT, WEAP ANALYSIS AND PILE OR REVIEW AND APPROVAL.

IREMENTS OF THE ACI BUILDING CODE -14).

OTHERWISE NOTED.

: 1.5% BY VOLUME, FOR 3/4" COARSE HALL BE USED.

AND PLACED IN ACCORDANCE WITH ACI

R REQUIREMENTS.

NGTH F'C = 5000 PSI AT 28 DAYS WITH A THERWISE ON SCHEDULES OR NOTES.

R TO THE ADDITION OF PLASTICIZING ADMIXTURES.

IXER IN ACCORDANCE WITH ASTM C172.

D FT. ON CENTER, UNLESS OTHERWISE NOTED.

/CY OF CORROSION INHIBITOR.

IN ACCORDANCE WITH LOCAL REGULATIONS.

1, SPECIAL INSPECTIONS SHALL BE PERFORMED BY AN INDEPENDENT TESTING AGENCY.

REINFORCING:

- 1. CONCRETE COVER MEASURED TO THE FACE OF THE REINFORCING BAR (INCLUDING TIES AND STIRRUPS) SHALL BE 3" UNLESS OTHERWISE INDICATED IN THE PLANS.
- 2. ALL REINFORCING BARS SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A615, GRADE 60.
- 3. ALL REINFORCING BARS SHALL BE HOT-DIP GALVANIZED IN CONFORMANCE WITH ASTM A767.
- 4. ALL SPLICES SHALL BE CLASS B TENSION SPLICES WITH A MINIMUM SPLICE LENGTH OF 1.3 (d ACCORDING TO ACI318-14
- THE CONTRACTOR MAY SUBMIT LESSER SPLICE LENGTHS FOR REVIEW AND APPROVAL TO THE ENGINEER OF RECORD AT THE SAME TIME PROVIDING THE FOLLOWING INFORMATION:
 A. DETAILS PREPARED AND SUBMITTED BY THE CONTRACTOR INDICATING LOCATION AND PROPOSED LAYOUT OF REBARS AND LENGTHS OF SPLICES.
- B. WHERE THE SIZE AND NUMBER OF TIES PERMIT THE REDUCTION OF LAP LENGTH, THOSE BARS SHALL BE INDICATED ON THE DETAILS.C. WHERE COMPUTED STRESS VALUES PERMIT THE REDUCTION OF LAP LENGTH, COMPUTATIONS
- SHALL BE SUBMITTED FOR REVIEW. D. THE APPLICABLE SECTION OF THE ACI318-14 CODE PERMITTING THE LESSER SPLICE LENGTH SHALL BE INDICATED ON THE SUBMITTED MATERIAL.
- 6. WHERE BARS OF DIFFERENT SIZES ARE TO BE SPLICED. THE SPLICE LENGTH FOR ALL BARS SHALL BE THAT REQUIRED FOR THE LARGEST.
- 7. ALL WELDED WIRE MESH SHALL CONFORM TO ASTM 185.

SURFACE PREPARATIONS:

- 1. SURFACE PREPARATION AND PAINTING OF STEEL SURFACES AND WELDS SHALL BE ACCOMPLISHED PER THE REQUIREMENTS OF SSPC AND FOLLOWING NOTES.
- 2. THE ENTITY(S) PERFORMING SURFACE PREPARATION AND PAINTING, WHETHER THE LOCATION OF THE WORK IS IN THE SHOP OR FIELD, SHALL MEET THE REQUIREMENTS OF SSPC AND NOTES.
- 3. PREPARE ALL STEEL SURFACES TO BE PAINTED BY ABRASIVE BLASTING IN ACCORDANCE WITH SSPC-SP10 USING EXPENDABLE BLAST MEDIA.
- 4. PROVIDE A SHARP, ANGULAR, UNIFORM ANCHOR PATTERN WITH A PROFILE HEIGHT OF 2-3 MILS, UNLESS THE REQUIREMENTS OF THE COATING MANUFACTURER ARE MORE RESTRICTIVE. PEAK COUNTS PER SQ. INCH SHALL BE 80 OR GREATER WHEN TESTED IN ACCORDANCE WITH ASTM D4417, METHOD C.

DEWATERING:

1. A PERMIT APPLICATION FOR DEWATERING AND AN APPROVAL OF TEMPORARY GROUND WATER DISCHARGE SHALL BE MADE BY THE CONTRACTOR AS PER THE REQUIREMENTS OF THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION.

DATUMS:

- 1. VERTICAL DATUM IN NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- 2. HORIZONTAL DATUM IN NORTH AMERICAN DATUM OF 1983 (NAD83) NEW YORK STATE PLANE.

DATUM CHART				
DESCRIPTION	NAVD88	NGVD29	мннw	MLLW
мннพ	2.67	3.51	0.35	4.34
мнพ	2.24	3.08	-0.08	3.91
NAVD88	0.00	0.84	-2.32	1.67
MLW	-1.50	-0.66	-3.82	0.17
MLLW	-1.67	-0.83	-3.99	0.00

NOTES:

 TIDAL DATUM ELEVATIONS OBTAINED USING NOAA VDATUM VERSION 4.0, DATA SET FOR "NEW JERSEY/NEW YORK/CONNECTICUT-NORTHERN NJ, NY HARBOR, WESTERN LONG ISLAND SOUND.
 ALL ELEVATIONS SHOWN ARE IN FEET

2. ALL ELEVATIONS SHOWN ARE IN FEET.

SPECIAL INSPECTIONS:

ABBREVIAT	<u>FIONS:</u>	
ADD'L.	ADDITIONAL	
ALT. BAL.	ALTERNATE BALANCE	
BOT.	BOTTOM	
BP.	BEARING PLATE	
C.I.P. CLR.	CAST IN PLACE CLEAR	
CL.	CENTERLINE	
CONC. CONST.	CONCRETE CONSTRUCTION	
DIA OR Ø	DIAMETER	
DWG. DWL(S)	DRAWING DOWEL(S)	
EL. OR ELEV.	ELEVATION	
EOS EQ.	EDGE OF SLAB EQUAL	
EXIST.	EXISTING	
EXP. JT.	EXPANSION JOINT	
FT. OR ' Fy.	FEET OR FOOT YIELD STRESS	
GALV.	GALVANIZED	
GR. H.D.G.	GRADE HOT DIPPED GALVANIZED	
HOR.	HORIZONTAL	12207
IN. OR " KSI.	INCHES KIPS PER SQUARE INCHES	ING ROLITY ING ROLITY LAREN, P.C.
LONG.	LONGITUDINAL	R I N G G R I I n g e n u cLAREN, P.C.
LLH.	LONG LEG HORIZONTAL	LIN CLAR
LLV. MAX.	LONG LEG VERTICAL MAXIMUM	N. G. Mc M. G. Mc
MIN.	MINIMUM	N E I N E E M. G. M Clinton Squar
MISC. N.T.S.	MISCELLANEOUS NOT TO SCALE	Clinto
0.C.	ON CENTER	The Patroon Building, 5 Clinton Square, Albany, NY 12207
0.D. PL.	OUTSIDE DIAMETER PLATE	
PCC	PRECAST CONCRETE	
PSI.	POUNDS PER SQUARE INCH	
PSF. R	POUNDS PER SQUARE FOOT RADIUS	he P.
REINF.	REINFORCING	
REQD. SS.	REQUIRED STAINLESS STEEL	PROJECT
STIFF.	STIFFENER	⊢
STRUCT. S.W.	STRUCTURE SHORT WAY	
Т	ТОР	
THK. OR THKNS. T.O.S.	THICK OR THICKNESS TOP OF STEEL	
TYP.	TYPICAL	TON WATERF
U.O.N. VA.	UNLESS OTHERWISE NOTED VARIES	
VERT.	VERTICAL	
V.I.F.	VERIFY IN FIELD WITH	
W/ W.W.F.	WELDED WIRE FABRIC	
		KINGSTON WATERFRON RESILIENCY DESIGN
		SHEET TITLE
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		GENERAL NOTES - 2
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FINAL DESIGN APRIL 17, 2020 PROJECT NO.

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04/17/2018

DEMOLITION NOTES

- 1. CONDUCT DEMOLITION OPERATIONS AND REMOVE DEBRIS TO ENSURE MINIMUM INTERFERENCE WITH SELECTIVE DEMOLITION OPERATION.
- 2. CONDUCT DEMOLITION OPERATIONS TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDINGS AND FACILITIES TO REMAIN. ENSURE SAFE PASSAGE OF PEOPLE AROUND SELECTIVE DEMOLITION AREA.
- <u>GENERAL NOTES</u>
- THE CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY ALL EXISTING SITE CONDITIONS. ANY DISCREPENCIES BETWEEN THE INFORMATION PROVIDED ON THE PLANS OR SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MARK-OUT OF EXISTING UNDERGROUND UTILITIES ADJACENT TO AND ENTERING THE SITE.
- 3. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, LAWS AND REGULATIONS GOVERNING THIS WORK. THE CONTRACTOR SHALL COORDINATE DEMOLITION WITH APPLICABLE AGENCIES, UTILITY COMPANIES AND/OR OTHER TRADES WORKING ON-SITE.
- 4. THE CONTRACTOR SHALL USE CARE DURING CONSTRUCTION TO AVOID DISTURBING OR DAMAGING ADJACENT ABOVE OR BELOW GROUND STRUCTURES, FACILITIES OR FEATURES. ANY DAMAGE RESULTING FROM THESE ACTIVITIES SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- WHERE NEW CONSTRUCTION ABUTS EXISTING PAVEMENTS, CURB OR WALLS, THE EXISTING 5. MATERIAL SHALL BE NEATLY SAWCUT TO PROVIDE A CLEAN, STRAIGHT, SMOOTH TRANSITION, AS SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE APPROPRIATE TRANSITION OR JOINT BETWEEN EXISTING AND NEW WORK.
- 6. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY EXISTING CURB, FENCE, PAVEMENT OR OTHER FEATURE INTENDED TO REMAIN BUT DAMAGED OR DISTURBED BY CONSTRUCTION ACTIVITIES, TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- 7. THE CONTRACTOR SHALL TAKE CARE TO PROTECT THE ROOT SYSTEM OF ANY EXISTING TREE, BUSH OR SHRUB TO REMAIN. BULK MATERIALS, EQUIPMENT AND/OR VEHICLES SHALL NOT BE STOCKPILED, PARKED OR DRIVEN WITHIN THE DRIPLINE OF ANY TREE, SHRUB OR BUSH.
- 8. IN AREAS DESIGNATED FOR EXCAVATION OR RE-GRADING, ALL EXISTING PAVEMENTS, CURBS, AND STRUCTURES SHALL BE REMOVED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- 9. THE CONTRACTOR SHALL DISPOSE OF ALL ITEMS AND MATERIALS (SUCH AS FENCING, PAVEMENT STRUCTURES, ETC.)TO BE REMOVED, AT AN OFF-SITE LOCATION IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL LAWS. ALL SPOILS TO REMAIN ON SITE.
- 10. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE APPROPRIATE AGENCIES PRIOR TO THE START OF WORK.
- 11. THE CONTRACTOR SHALL FIELD VERIFY THE EXACT SIZE, LOCATION, DEPTH AND INVERT OF ALL EXISTING UTILITIES WITHIN THE LIMITS OF WORK PRIOR TO COMMENCING OPERATIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER FOR RESOLUTION.
- 12. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 72 HOURS PRIOR TO THE START OF OPERATIONS AND SHALL COMPLY WITH THE LATEST NEW YORK STATE CODE RULE 753 (OR INDUSTRIAL CODE RULE 53).
- 13. PERMANENT TRAFFIC CORRIDORS SHALL BE ESTABLISHED AND "ROUTES OF CONVENIENCE" SHALL
- BE AVOIDED. 14. THE LAND OWNER IS RESPONSIBLE FOR ANY CONSTRUCTION OR LANDSCAPING BEYOND THE LIMIT
- <u>GRADING NOTES</u>

OF DISTURBANCE LINE.

- 1. ALL LANDSCAPED AREAS AND CURBED ISLANDS SHALL RECEIVE A MINIMUM OF 4" OF TOPSOIL.
- 2. ALL EXISTING UTILITY STRUCTURE CASTINGS SHALL BE ADJUSTED AS NECESSARY TO BE FLUSH WITH PROPOSED FINISHED GRADE.
- 3. ALL EARTH EMBANKMENTS SHALL HAVE A MAXIMUM SLOPE OF 2.0 HORIZONTAL TO 1 VERTICAL. ALL ROCK EMBANKMENTS SHALL HAVE A SLOPE OF 1 HORIZONTAL TO 3 VERTICAL OR AS DIRECTED ON THE PLANS.
- 4. ALL EARTHWORK SHALL BE SMOOTHLY AND EVENLY BLENDED INTO EXISTING CONDITIONS.
- 5. IN NO CASE SHALL ERODIBLE MATERIALS BE STOCKPILED WITHIN 25 FEET OF ANY DITCH, STREAM OR OTHER SURFACE WATER BODY.

<u>UTILITY NOTES</u>

- 1. GENERAL
- a. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY INFORMATION AND REPORT ANY DISCREPANCIES TO THE SITE ENGINEER FOR RESOLUTION.
- b. THE CONTRACTOR SHALL REFER TO THE BUILD MECHANICAL AND PLUMBING PLANS FOR THE EXACT LOCATIONS AND INVERTS OF ALL BUILDING SERVICE CONNECTIONS.
- c. THE SITE CONTRACTOR IS ADVISED THAT IF OTHER CONTRACTOR AND/OR UTILITY COMPANIES SHALL BE WORKING IN THE AREA AT THE SAME TIME. THE CONTRACTOR SHALL COORDINATE HIS WORK SUCH THAT THERE WILL BE NO CONFLICT IN OPERATIONS.
- 2. STORM DRAINS
- a. STORM DRAINS SHALL BE CONSTRUCTED SMOOTH FLOW POLYETHYLENE PIPE. b. PIPE END SECTIONS SHALL BE PREFABRICATED.
- 3. SANITARY SEWERS
- a. ALL SANITARY SEWER SERVICE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF KINGSTON STANDARDS AND SPECIFICATIONS.
- 4. WATER MAINS
- a. PIPE BEDDING SHALL BE CONTINUOUS AND UNIFORM. BACKFILL MATERIAL SHALL BE TAMPED IN LAYERS AROUND THE PIPE AND FOR THE FULL DEPTH OF THE TRENCH. STONES FOUND IN THE TRENCH SHALL BE REMOVED FOR A DEPTH OF AT LEAST SIX INCHES BELOW THE BOTTOM OF THE PIPE.
- b. DEFLECTION OF JOINTS ON WATER MAINS SHALL NOT EXCEED 50% OF THE MAXIMUM
- c. ALL HORIZONTAL AND VERTICAL BENDS SHALL HAVE THRUST BLOCKS AND/OR RETAINER
- GLANDS. d. IF GROUND WATER IS PRESENT WITHIN 7 FEET OF A HYDRANT, THE HYDRANT DRAINS MUST BE PLUGGED. THE BARRELS MUST BE PUMPED DRY AFTER USE DURING FREEZING WEATHER. WHERE HYDRANT DRAINS ARE NOT PLUGGED A GRAVEL POCKET OR DRY WELL SHALL BE PROVIDED. HYDRANT DRAINS SHALL NOT BE CONNECTED TO OR LOCATED WITHIN 10 FEET OF SANITARY SEWERS OR STORM DRAINS.
- e. WATER MAINS CROSSING ABOVE OR BELOW STORM AND/OR SANITARY SEWERS SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF EIGHTEEN (18) INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER. AT CROSSINGS, ONE FULL LENGTH OF WATER PIPE SHALL BE LOCATED SUCH THAT BOTH JOINTS WILL BE AS FAR AS POSSIBLE FROM THE SEWER.
- f. WATER MAINS SHALL BE LAID WITH A MINIMUM TEN-(10) FOOT HORIZONTAL CLEARANCE FROM ANY EXISTING OR PROPOSED SEWER LINE. g. PRESSURE AND LEAKAGE TESTING SHALL BE MADE IN ACCORDANCE WITH SECTION 4
- "HYDROSTATIC TEST" OF AWWA C600-99. THE MINIMUM HYDROSTATIC TEST PRESSURE SHALL BE 150 PSI FOR A MINIMUM PERIOD OF TWO (2) HOURS.
- h. WATER DISTRIBUTION LINES SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA C651 EXCEPT THAT THE TABLET METHOD SHALL NOT BE PERMITTED. SAMPLES OF WATER SHALL BE COLLECTED AND TAKEN TO THE ULSTER COUNTY DEPARTMENT OF HEALTH FOR BACTERIOLOGICAL ANALYSIS. A MINIMUM OF ONE (1) SAMPLE SHALL BE COLLECTED FOR EACH 1000 LINEAR FEET OF WATER MAIN OR PORTION THEREOF. IF THE SAMPLES FAIL TO MEET THE STANDARDS OF THE ULSTER COUNTY DEPARTMENT OF HEALTH FOR DRINKING WATER, THEN THE WATER MAINS SHALL BE RE-STERILIZED AND THE PROCEDURE REPEATED UNTIL THE SAMPLES ARE SATISFACTORY.
- . CROSS CONNECTION CONTROL (BACKFLOW PREVENTORS) SHALL BE SUBMITTED UNDER SEPARATE COVER BY TO THE CITY OF KINGSTON AND THE ULSTER COUNTY DEPARTMENT OF HEALTH FOR REVIEW AND APPROVAL.
- . UPON COMPLETION AND PRIOR TO USE, AS BUILT PLANS MUST BE SUBMITTED TOGETHER WITH ENGINEERS CERTIFICATION OF CONSTRUCTION AND TWO (2) ACCEPTABLE RESULTS OF BACTERIOLOGICAL TESTING SAMPLED 24 HOURS APART.
- 5. PRIVATE UTILITIES
- a. ALL GAS AND ELECTRIC SYSTEM INSTALLATIONS SHALL CONFORM TO THE REQUIREMENTS OF THE LOCAL GOVERNING AUTHORITY. THE DESIGN AND INSTALLATION OF THESE SYSTEMS ARE NOT PART OF THE CIVIL DRAWINGS, AND THESE LINES ARE SHOWN FOR LOCATION AND COORDINATION PURPOSES ONLY.
- b. INFORMATION TECHNOLOGY (IT), LIGHTING AND SECURITY DESIGN AND INSTALLATION ARE NOT PART OF THE CIVIL DRAWINGS, AND THESE LINES ARE SHOWN FOR LOCATION AND COORDINATION PURPOSES ONLY.
- c. THE CONTRACTOR SHALL NOT INSTALL ANY PORTION OF THE PAVEMENT SECTION INCLUDING CURBING UNTIL ALL PRIVATE UTILITY LINES AND/OR CONDUITS HAVE BEEN INSTALLED.
- d. THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR TRENCH EXCAVATION AND BACKFILL FOR ALL GAS, ELECTRIC AND TELEPHONE LINES/CONDUITS. EXCAVATION AND BACKFILL MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF THE INDIVIDUAL UTILITY COMPANY.
- e. THE CONTRACTOR SHALL REFER TO PLANS PREPARED BY EITHER THE APPROPRIATE UTILITY COMPANY OR THE SITE ELECTRICAL/MECHANICAL ENGINEER FOR THE EXACT LOCATION. SIZE AND TYPE OF THE PROPOSED GAS. ELECTRIC OR TELEPHONE SYSTEMS. ANY LOCATIONS SHOWN ON THESE DRAWINGS SHOULD NOT BE USED FOR CONSTRUCTION.
- 6. PIPE ABANDONMENT
- a. THE CONTRACTOR SHALL NOT REMOVE EXISTING UNDERGROUND UTILITIES WITHIN THE PROJECT AREAS AND ANY THAT CONFLICT WITH PROPOSED UTILITY OR OTHER CONSTRUCTION WITHOUT PROPER APPROVAL OF THE UTILITY OWNER. ALL OTHER UTILITIES CAN BE ABANDONED IN PLACE.
- b. TWELVE (12) INCH AND LARGER PIPES TO BE ABANDONED SHALL BE PLUGGED AND FILLED WITH A CEMENT BASED GROUT SLURRY MIXTURE.
- c. TEN INCH (10") AND SMALLER PIPES TO BE ABANDONED SHALL BE PLUGGED AT BOTH ENDS WITH A NON-SHRINK MORTAR NOT LESS THAN 2' - 0" THICK.
- d. THE ABANDONMENT METHOD SHALL ADEQUATELY PROVIDE FOR THE REMOVAL AND LEGAL DISPOSAL OF ALL EXISTING PIPE MATERIALS, OF WHATEVER NATURE, REMOVED FROM THE SYSTEM.

MISCELLANEOUS NOTES

- 1. PORT EWEN FORCE MAIN
- a. ALL MACHINERY EQUIPPED WITH OUTRIGGER OR ANY OTHER DEVICE THAT TRANSFERS HEAVY POINT LOADS TO THE GROUND SURFACE SHALL NOT OPERATE WITHIN THE 20 FOOT WIDE EASEMENT TO PREVENT AND DAMAGE TO THE EXISTING FORCE MAIN.
- 2. TELEPHONE TRUNKLINES
- a. THE EXACT LOCATION AND DEPTH OF THE TELEPHONE TRUNKLINES SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION. AT THE REQUEST OF VERIZON, THE CONTRACTOR IS NOT AUTHORIZED TO DAMAGE OR REMOVE ANY EXISTING ACTIVE OR ABANDONED TRUNKLINE
- 3. EXISTING COMBINED SEWER OUTLET OUTFALL
- a. THE EXACT LOCATION, DEPTH, CONDITION AND SIZE OF THE CSO OUTFALL RUNNING UNDER THE MARITIME MUSEUM IS TO BE FIELD INSPECTED PRIOR TO CONSTRUCTION.

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DEPARTMENT OF STATE UNDER TITLE 11 OF THE ENVIRONMENTAL PROTECTION FUND.

DEFLECTION RECOMMENDED BY THE MANUFACTURER OR AS ORDERED BY THE ENGINEER.

A Clinton Sulding, 5 Clinton Square, Albany, NY 12207	NO. DATE REVISION
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	T: 518.992.4830 www.mgmclaren.com
KINGSTON WATERFRONT RESILIENCY DESIGN	
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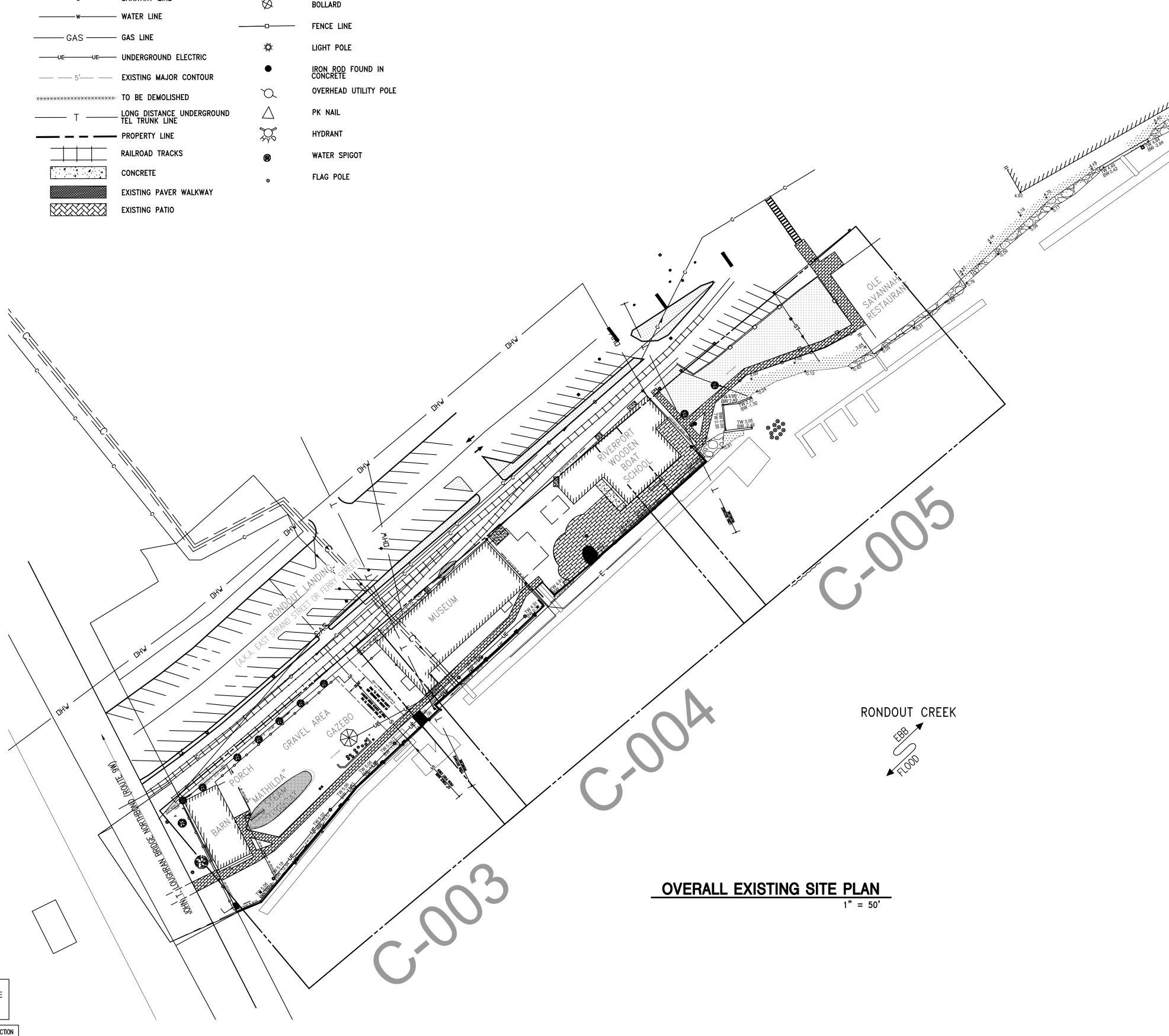




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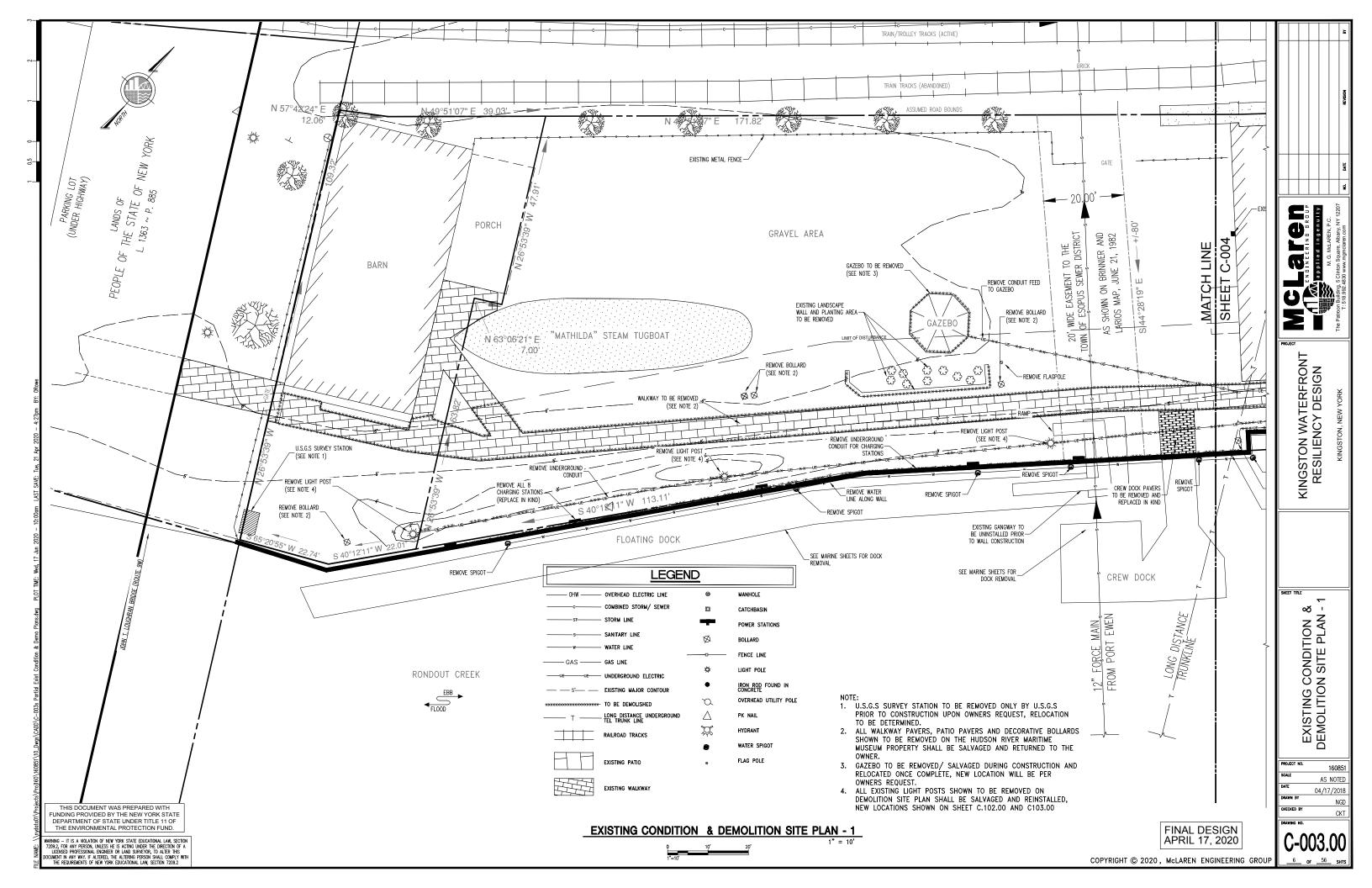
LEGEND				
OHW	OVERHEAD ELECTRIC LINE	\$	MANHOLE	
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S T	STORM LINE		CHARGING STATIONS	
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w	WATER LINE	o	FENCE LINE	
GAS	GAS LINE	*	LIGHT POLE	
UEUE	UNDERGROUND ELECTRIC	*		
5 '	EXISTING MAJOR CONTOUR	•	IRON ROD FOUND IN CONCRETE	
*****	TO BE DEMOLISHED	\mathcal{O}	OVERHEAD UTILITY POLE	
— T —	LONG DISTANCE UNDERGROUND TEL TRUNK LINE	\bigtriangleup	PK NAIL	
	PROPERTY LINE	ЪС.	HYDRANT	
	RAILROAD TRACKS		WATER SPIGOT	
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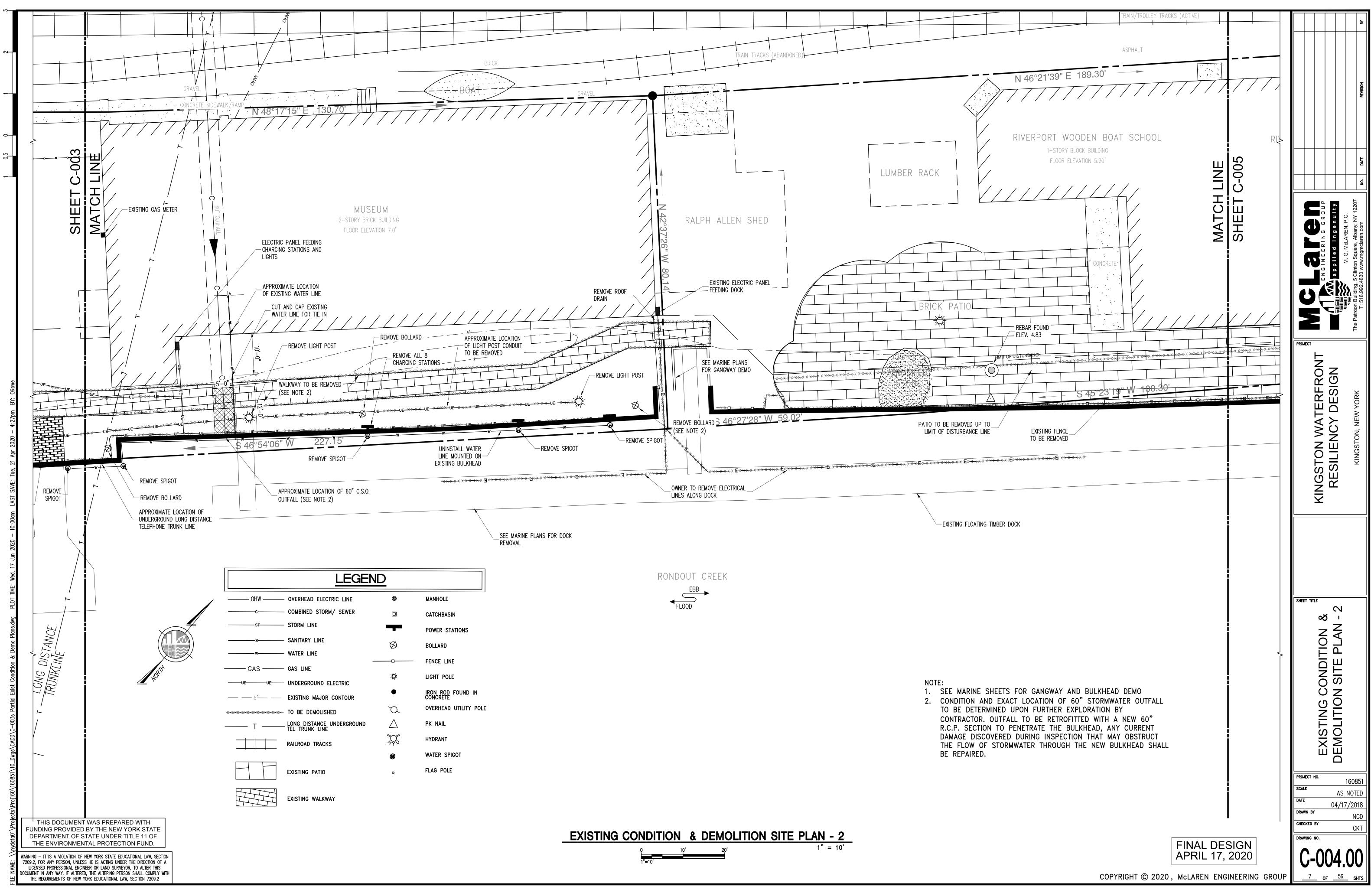
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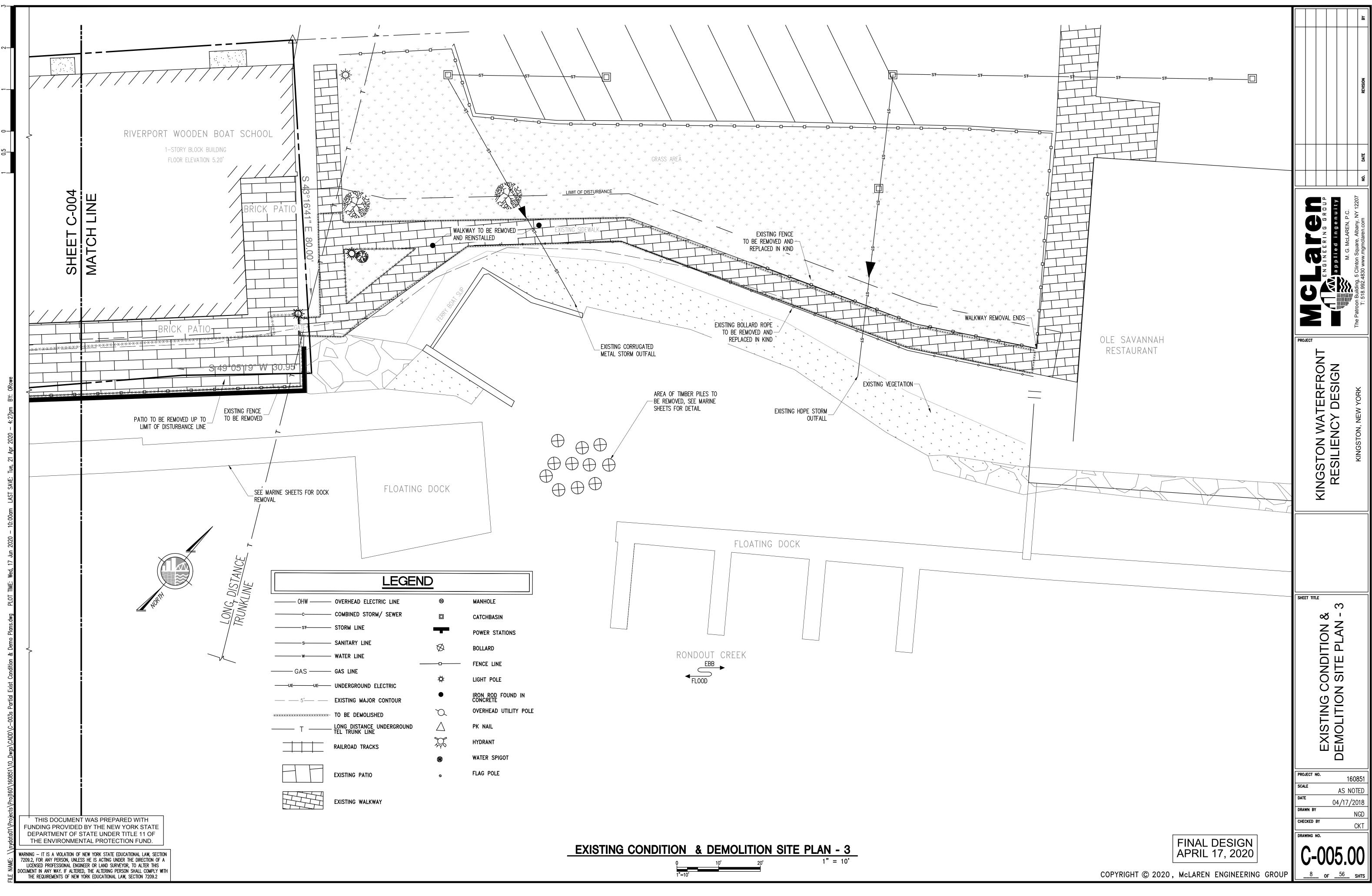


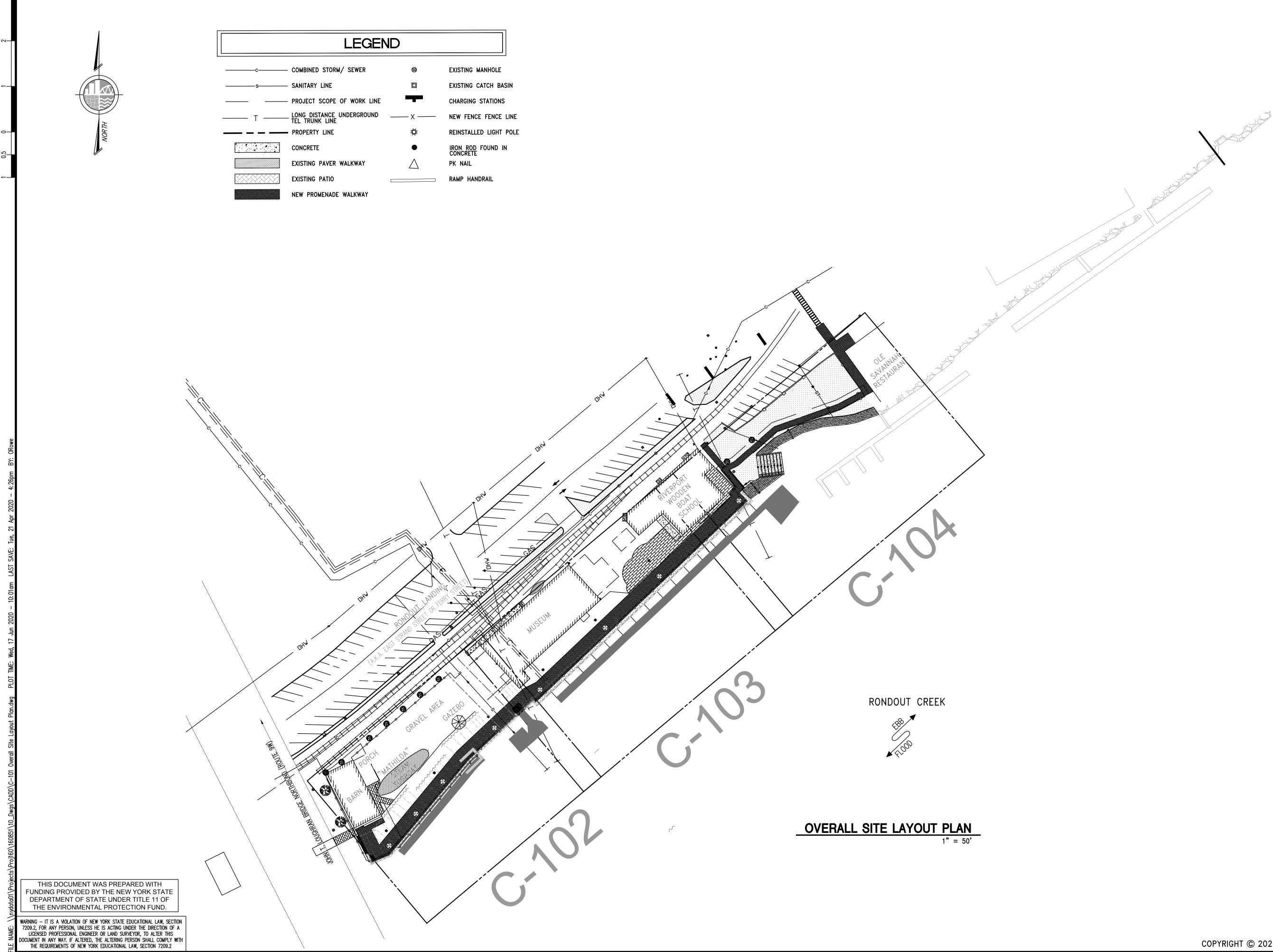
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Plied ingenuity M.G. McLAREN, P.C.	T: 518.992.4830 www.mgmclaren.com
ENGINE MUNICIPALITY	m.www.0
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The Patron Building 5 Clinton Scuare Albary NY 12207	T: 518.
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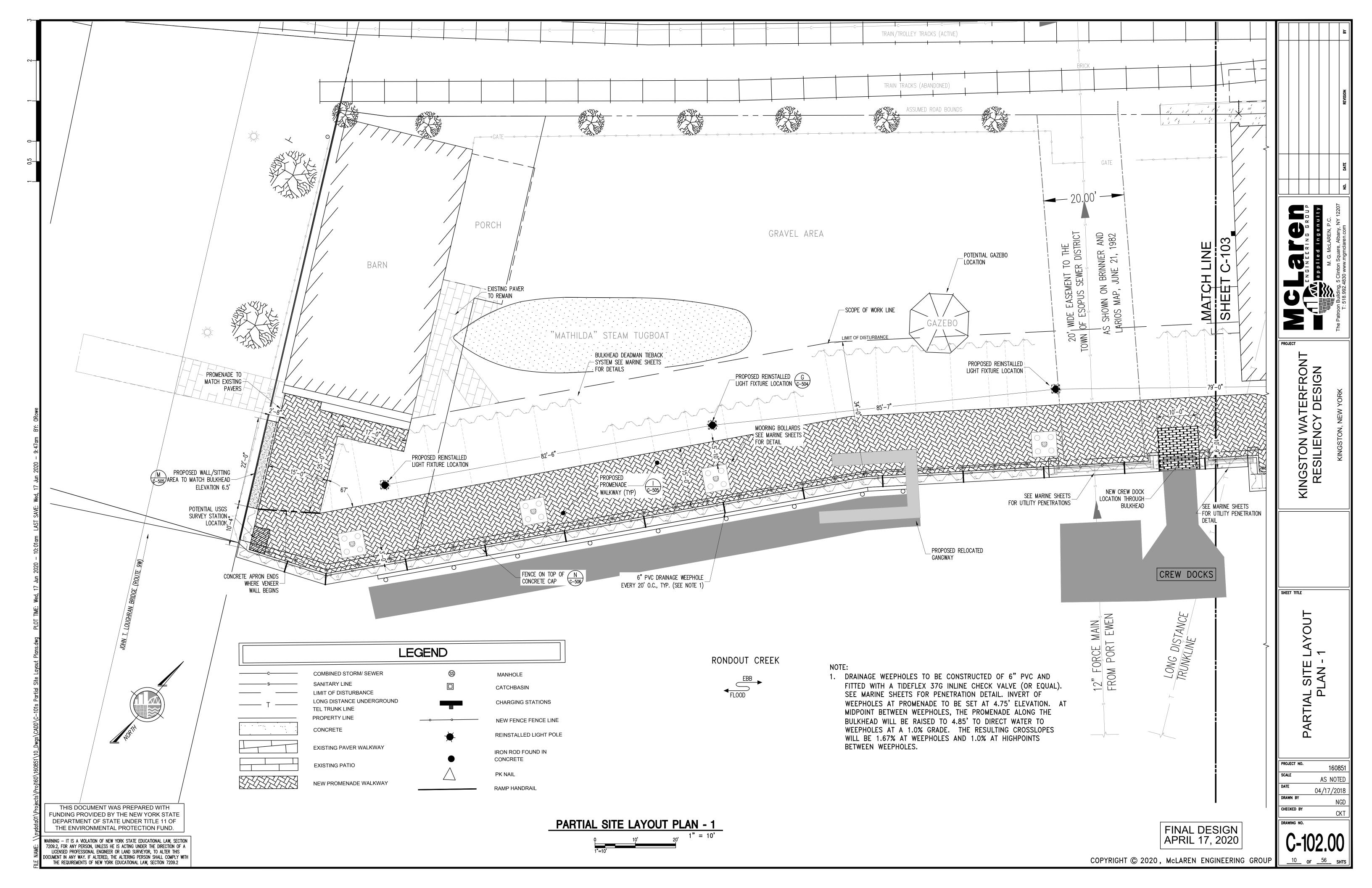


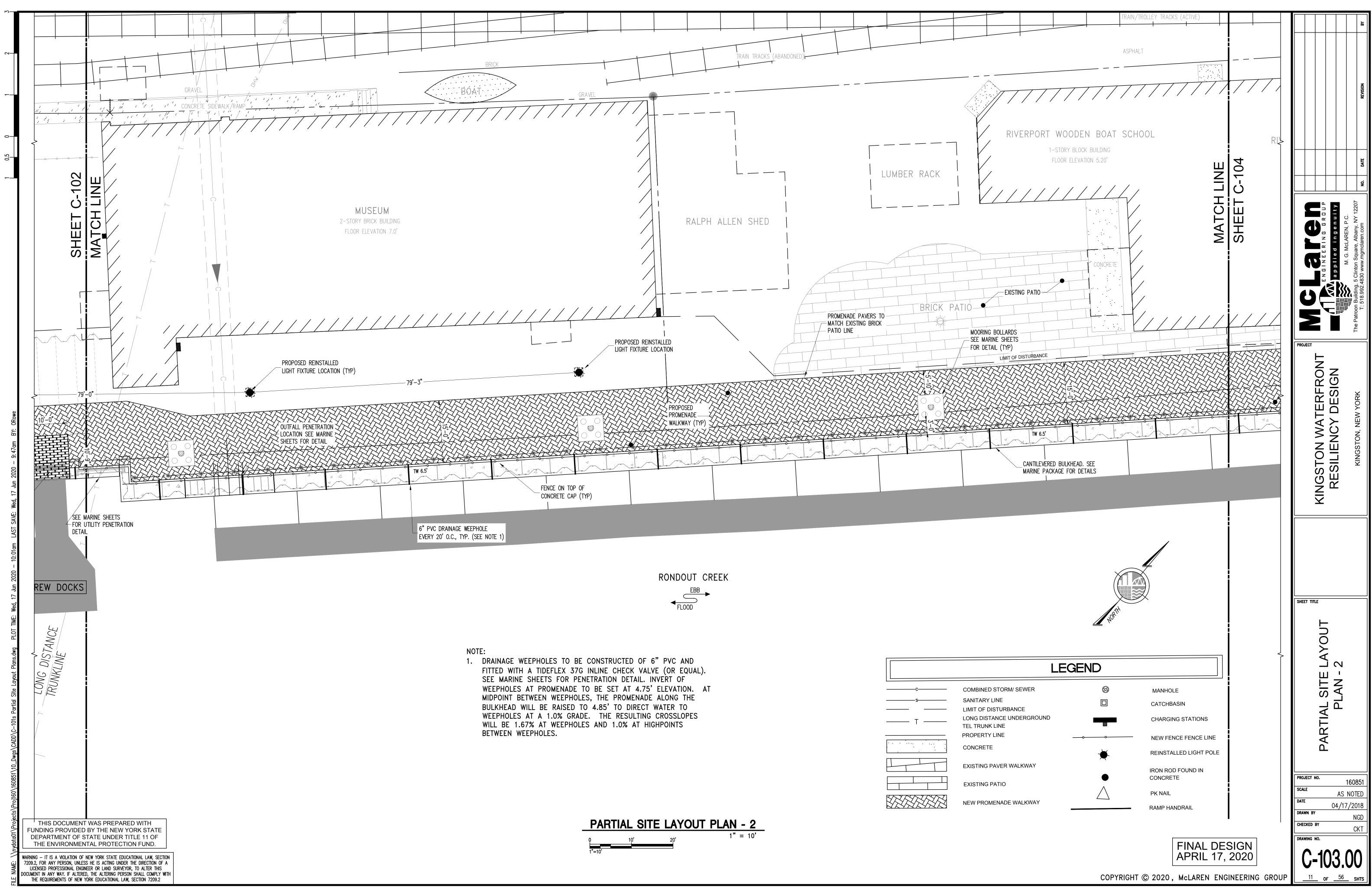




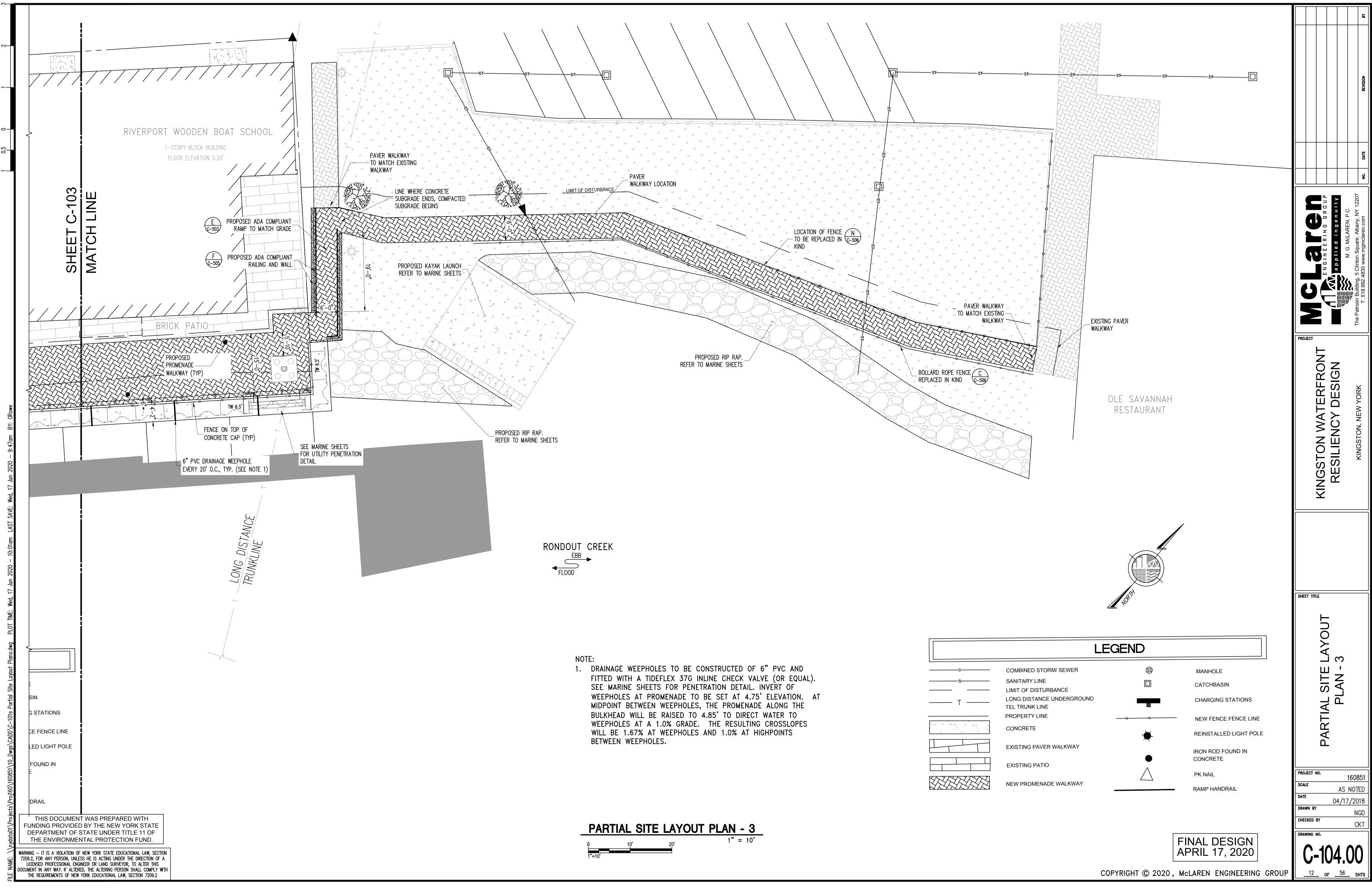
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	T: 518.992.4830 www.mgmclaren.com
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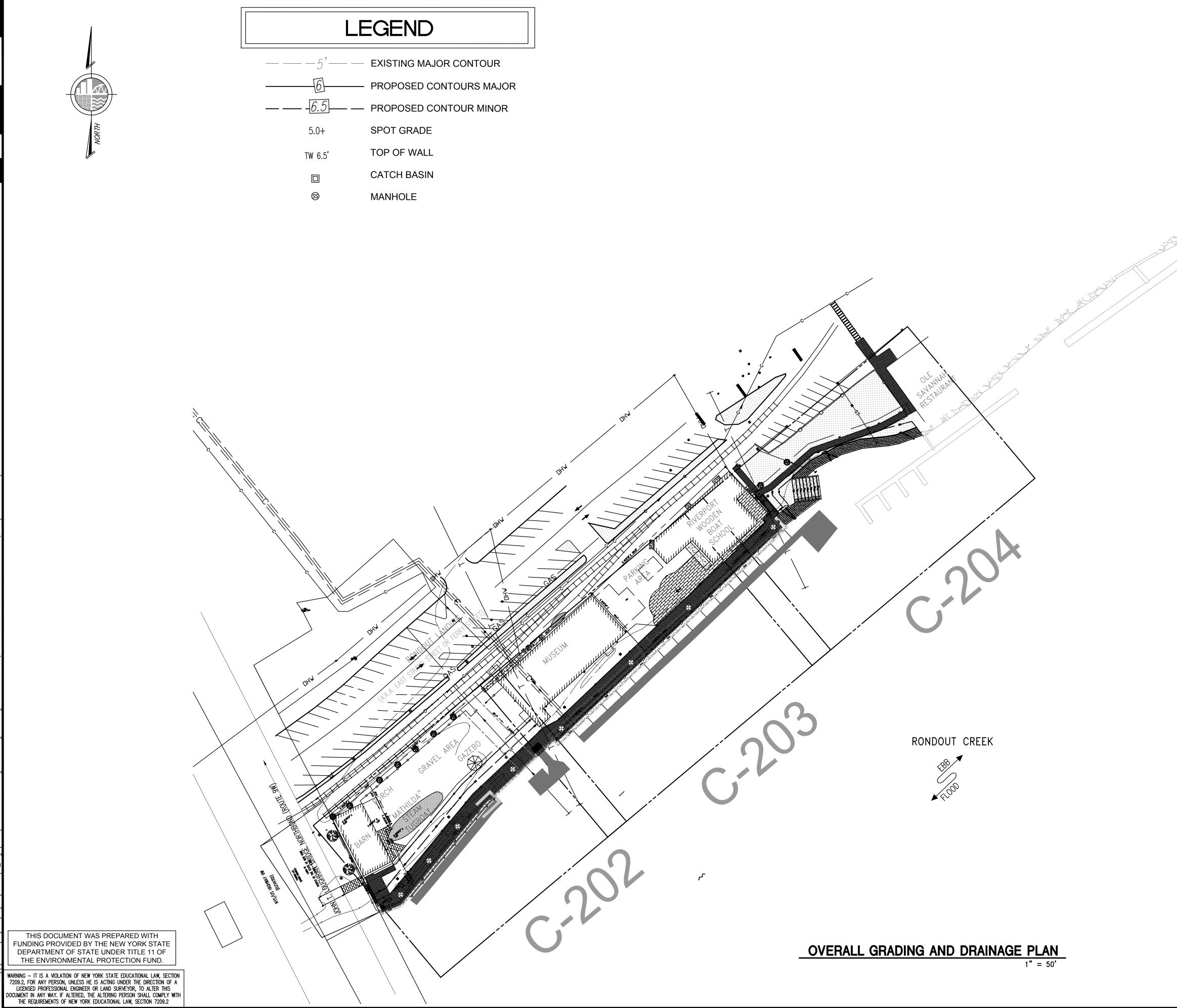




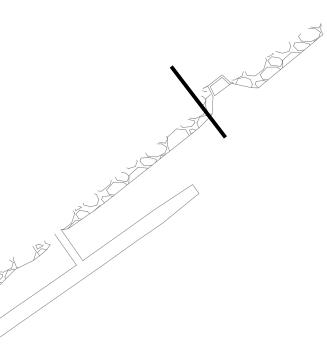


C	COMBINED STORM/ S
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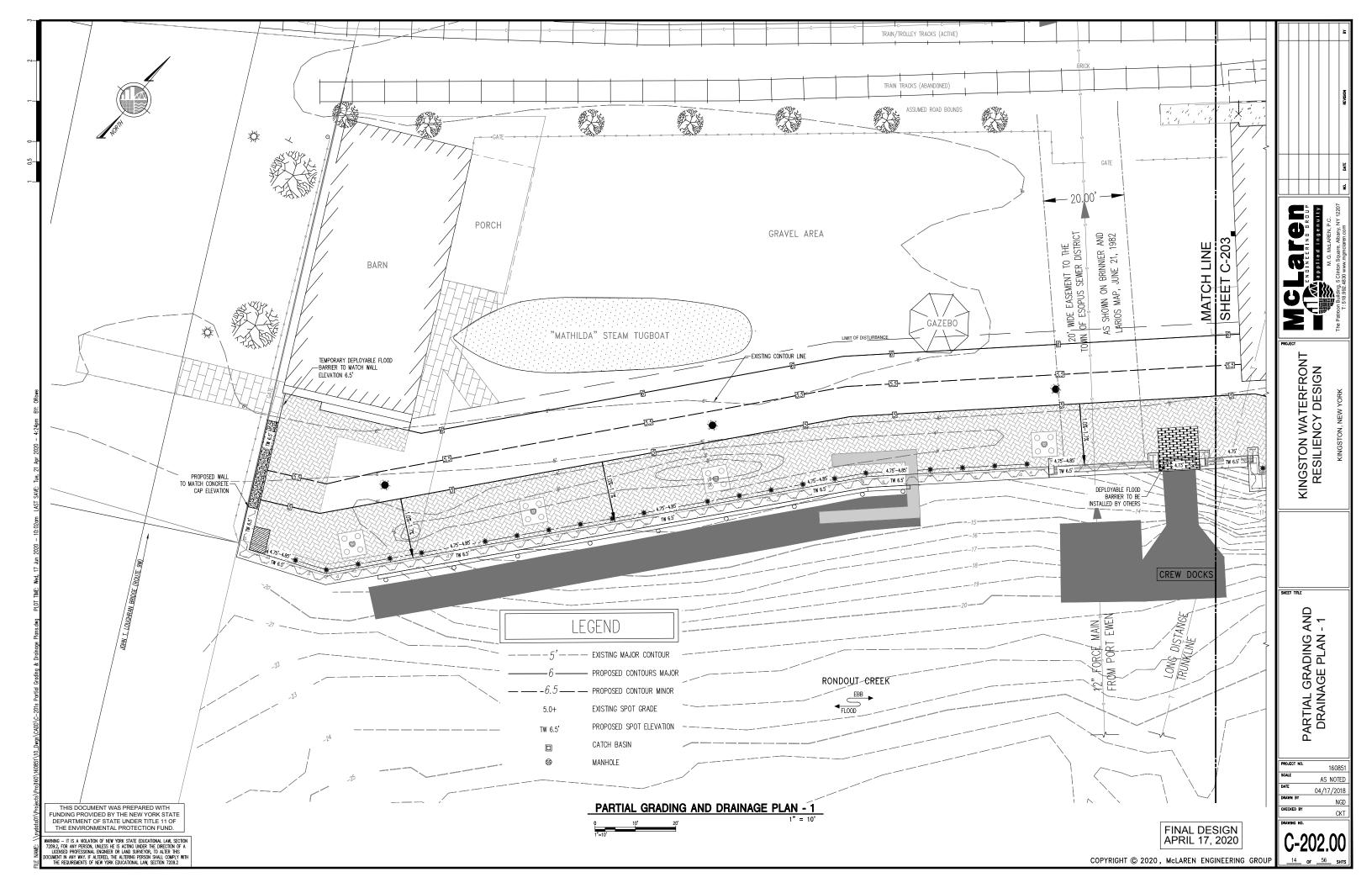


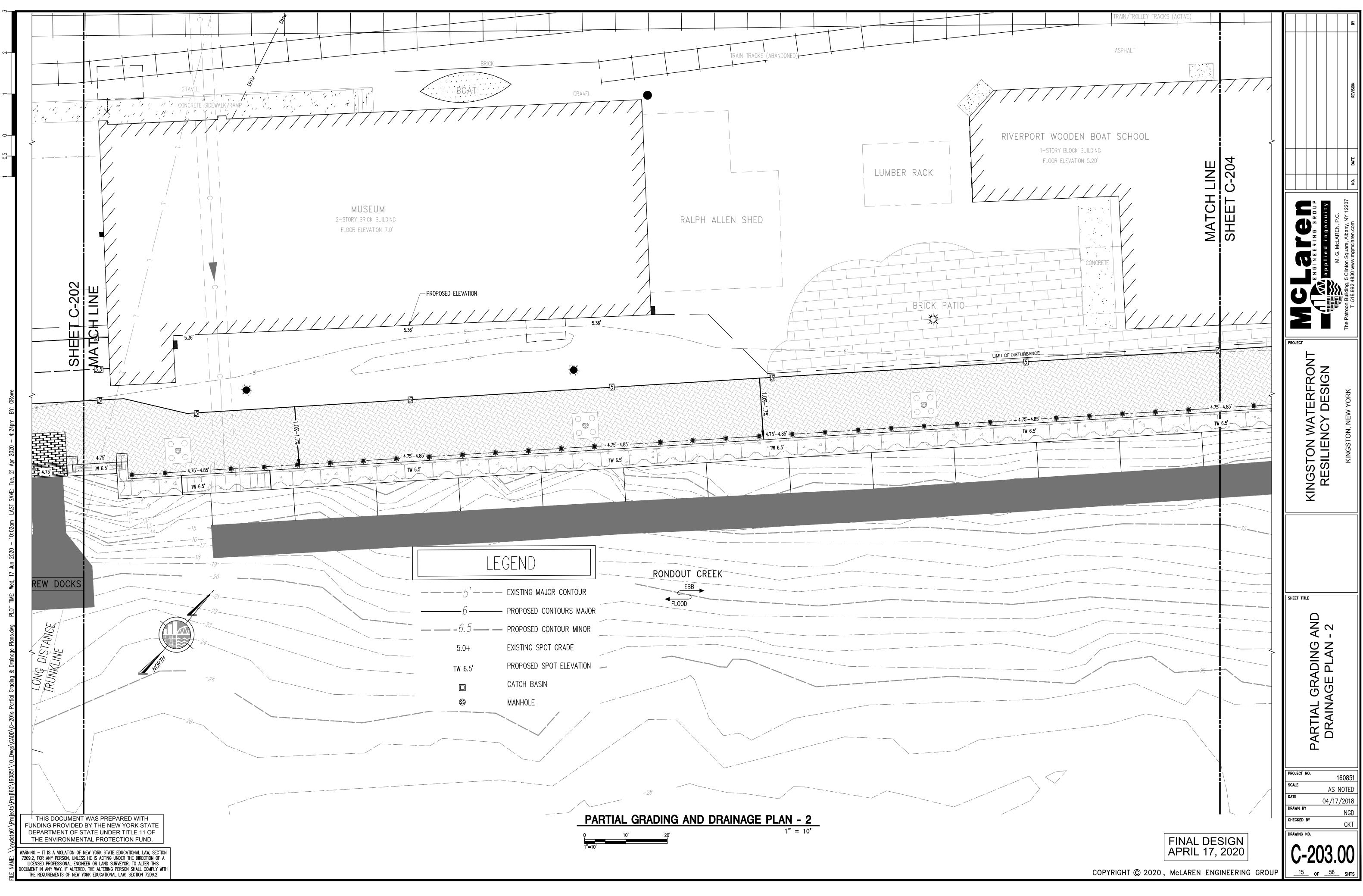


		BY
		REVISION
		NO. DATE
	The Datron Building & Clinton Scinta Albaru NY 12007	
	KINGSTON WATERFRONT RESILIENCY DESIGN	KINGSTON, NEW YORK
	OVERALL GRADING AND DRAINAGE PLAN	
	CHECKED BY	ED
D	DRAWING NO.	

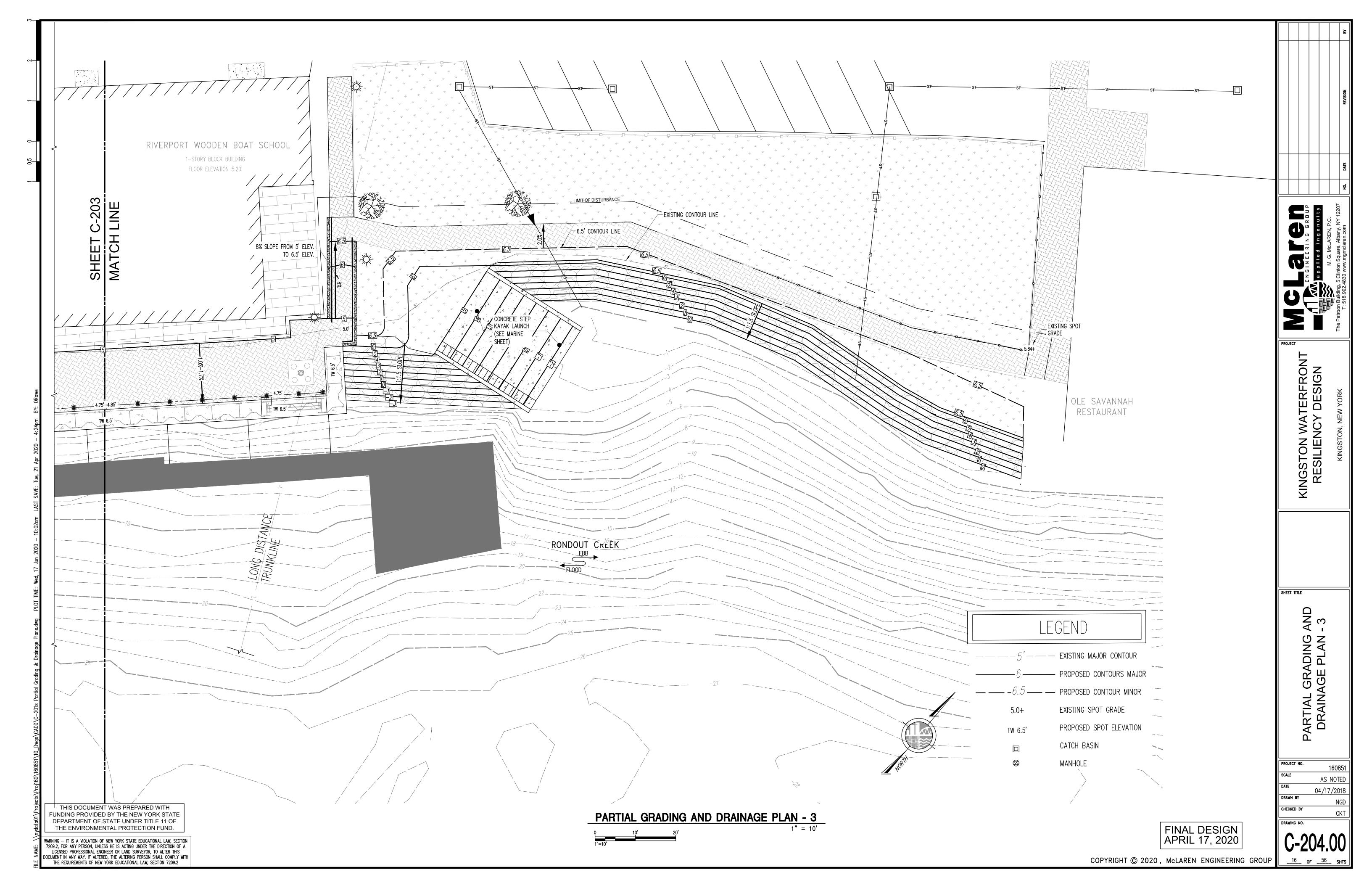


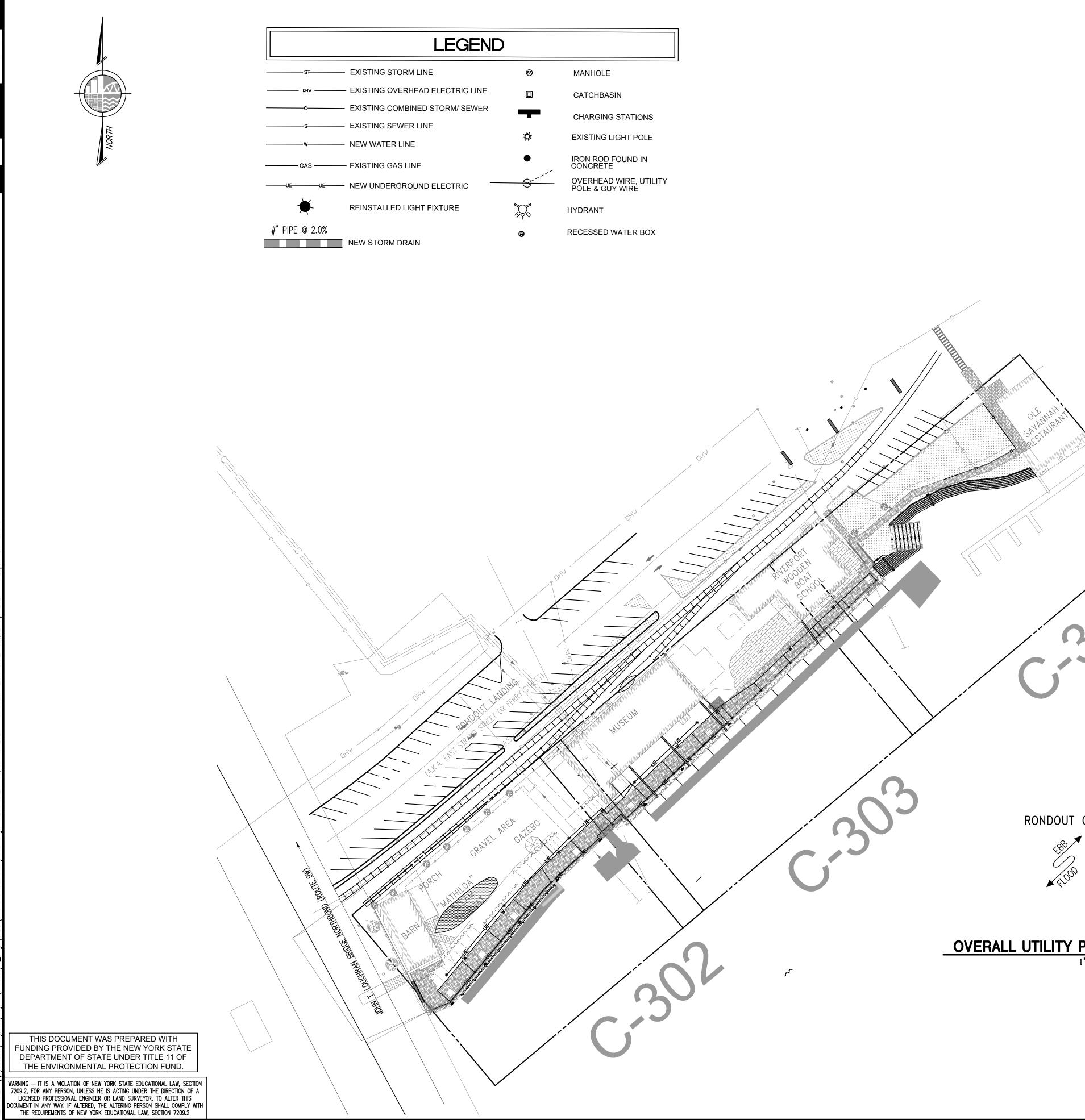






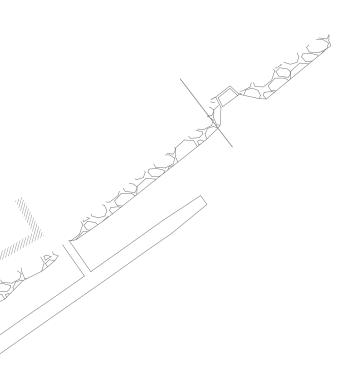
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CATCH BASIN	



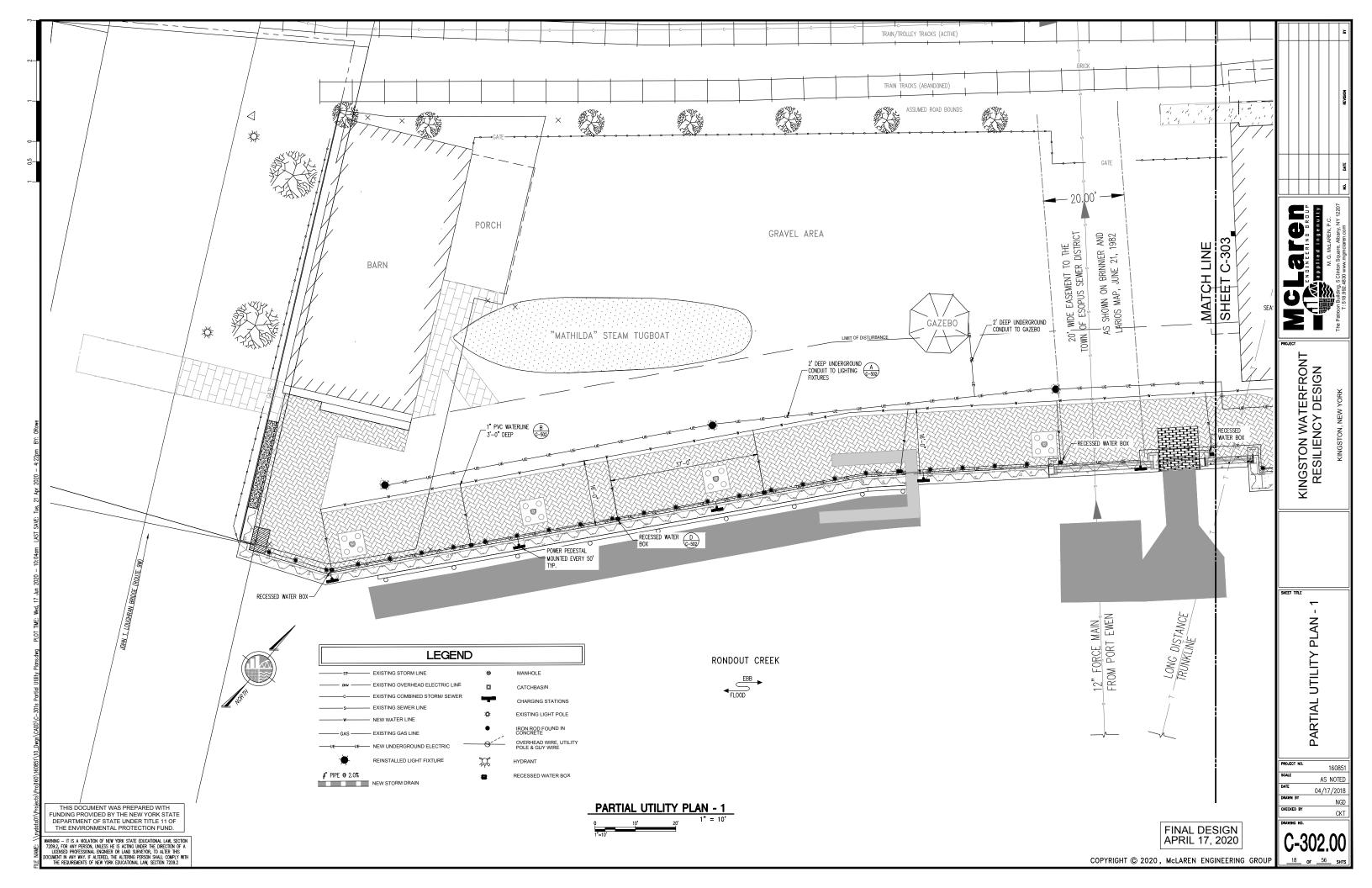


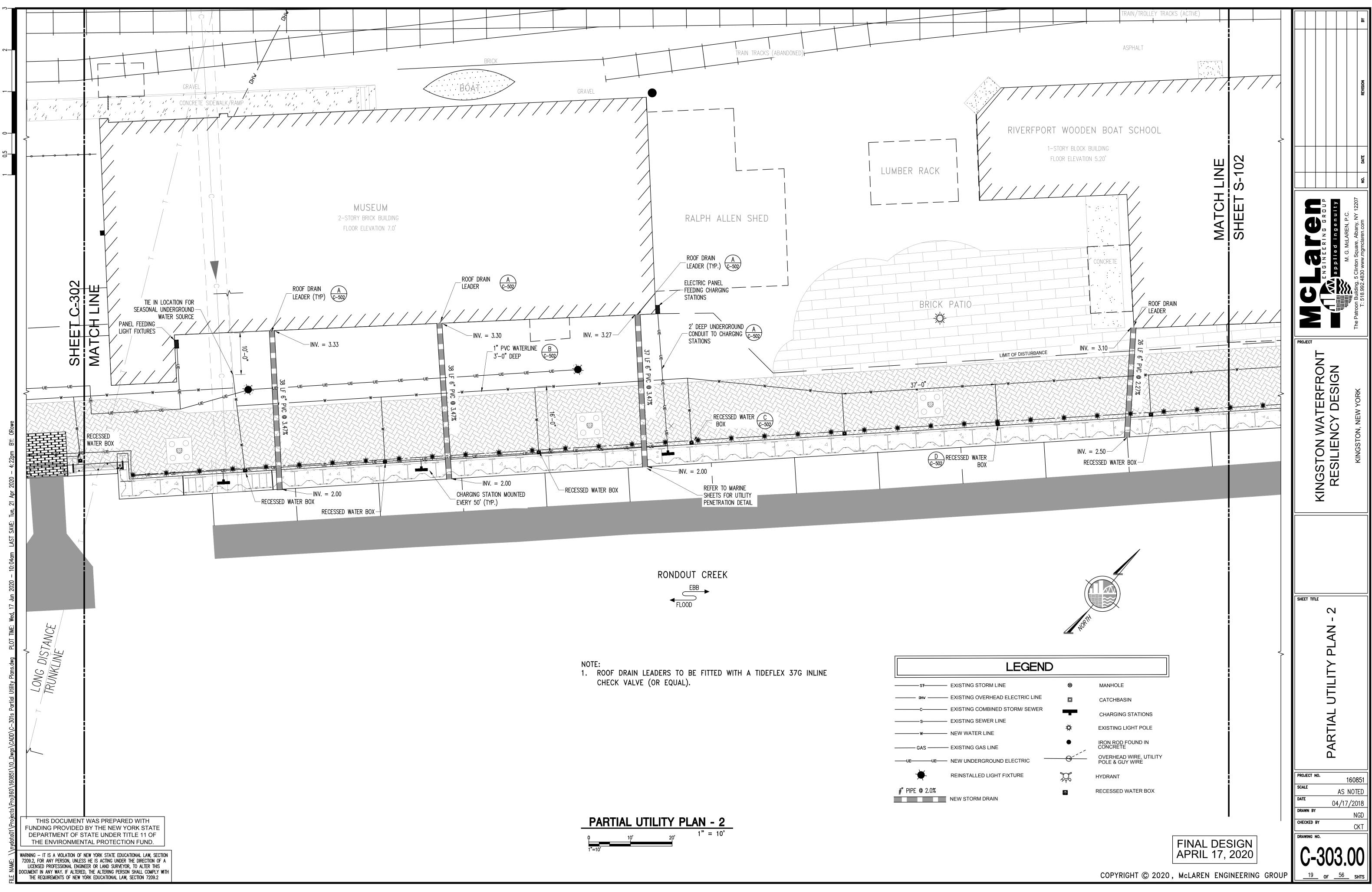
RONDOUT CREEK **OVERALL UTILITY PLAN** 1" = 50'

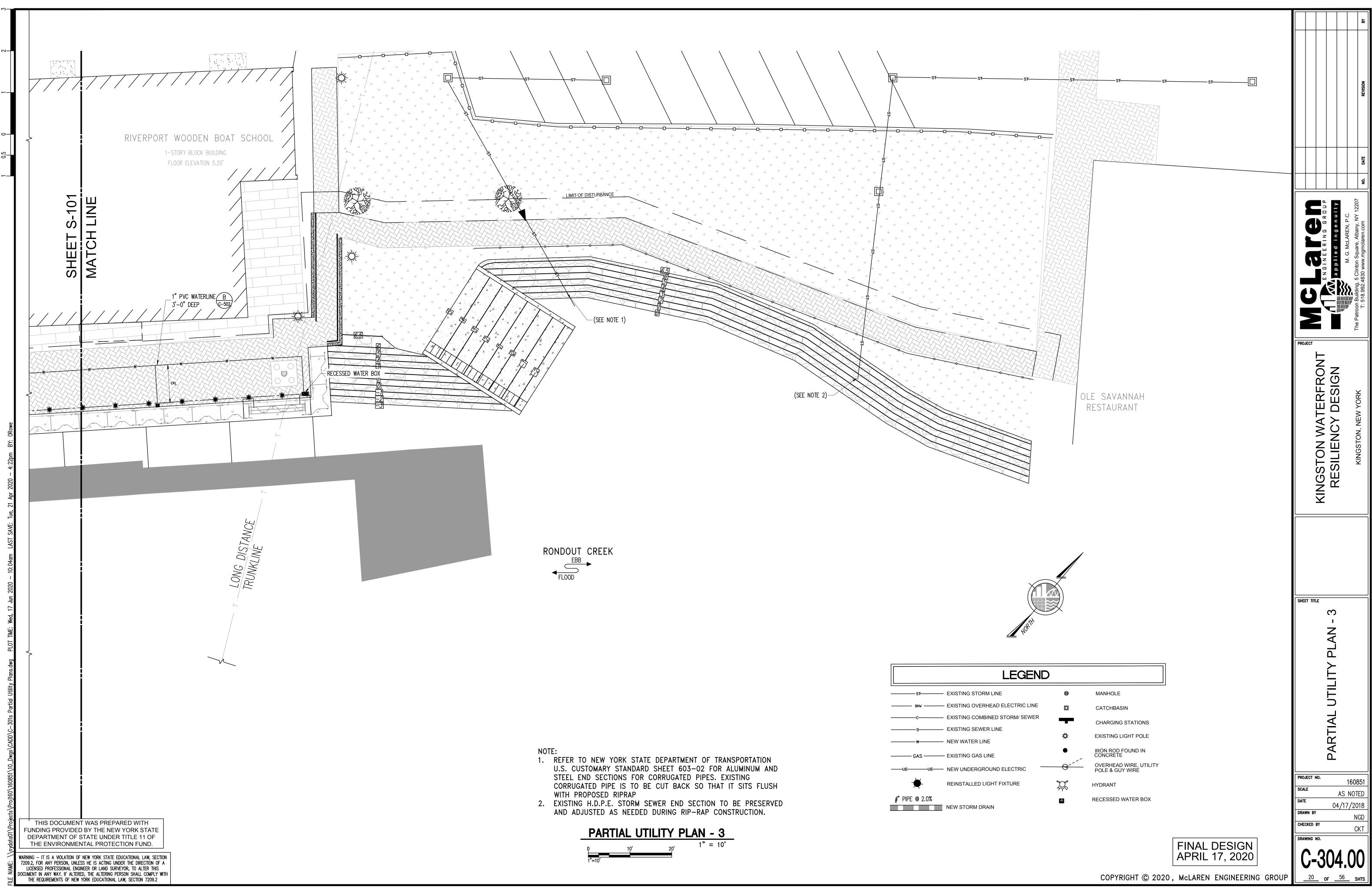
		BY
		REVISION
		DATE
		NO.
	The Patron Building 5 Clinton Square Albary NY 12207	T: 518.992.4830 www.mgmclaren.com
	KINGSTON WATERFRONT RESILIENCY DESIGN	
	OVERALL UTILITY PLAN	
	CHECKED BY	ED 018 GD
Ρ	DRAWING NO.	<u>КТ</u>) нтs



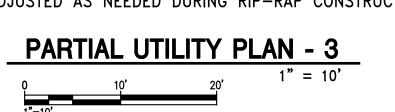
FINAL DESIGN APRIL 17, 2020

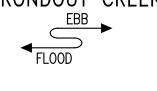


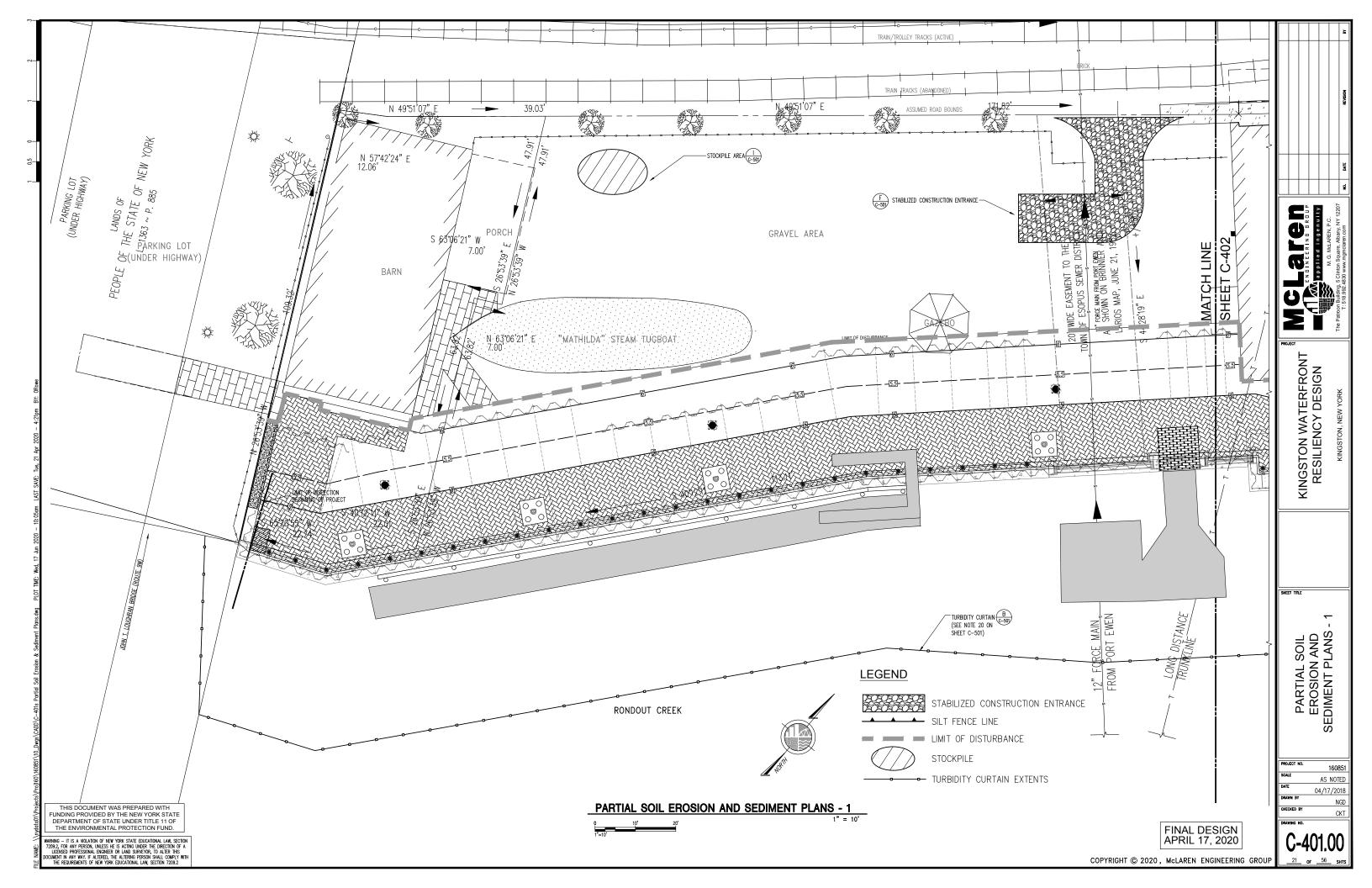


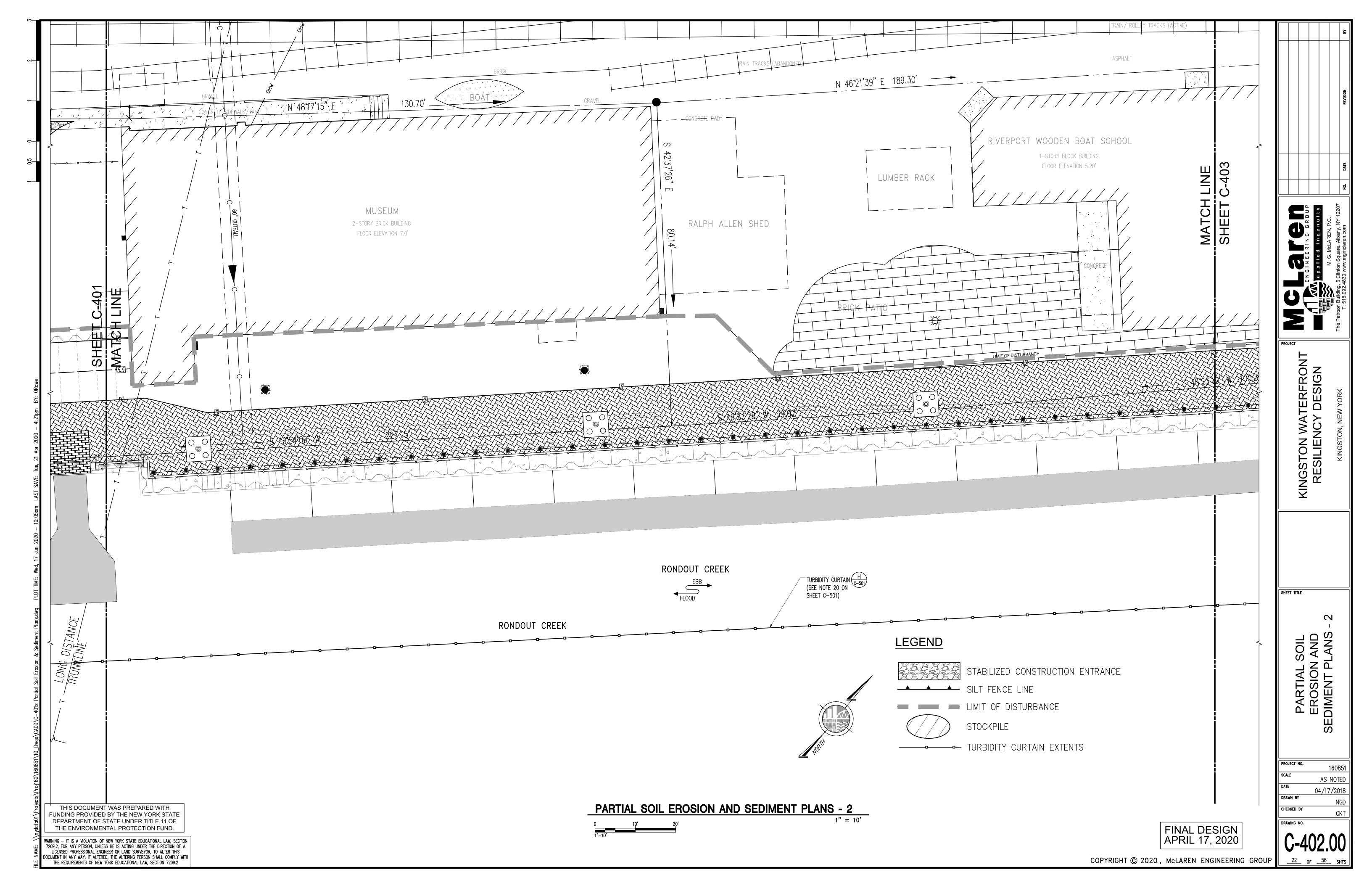


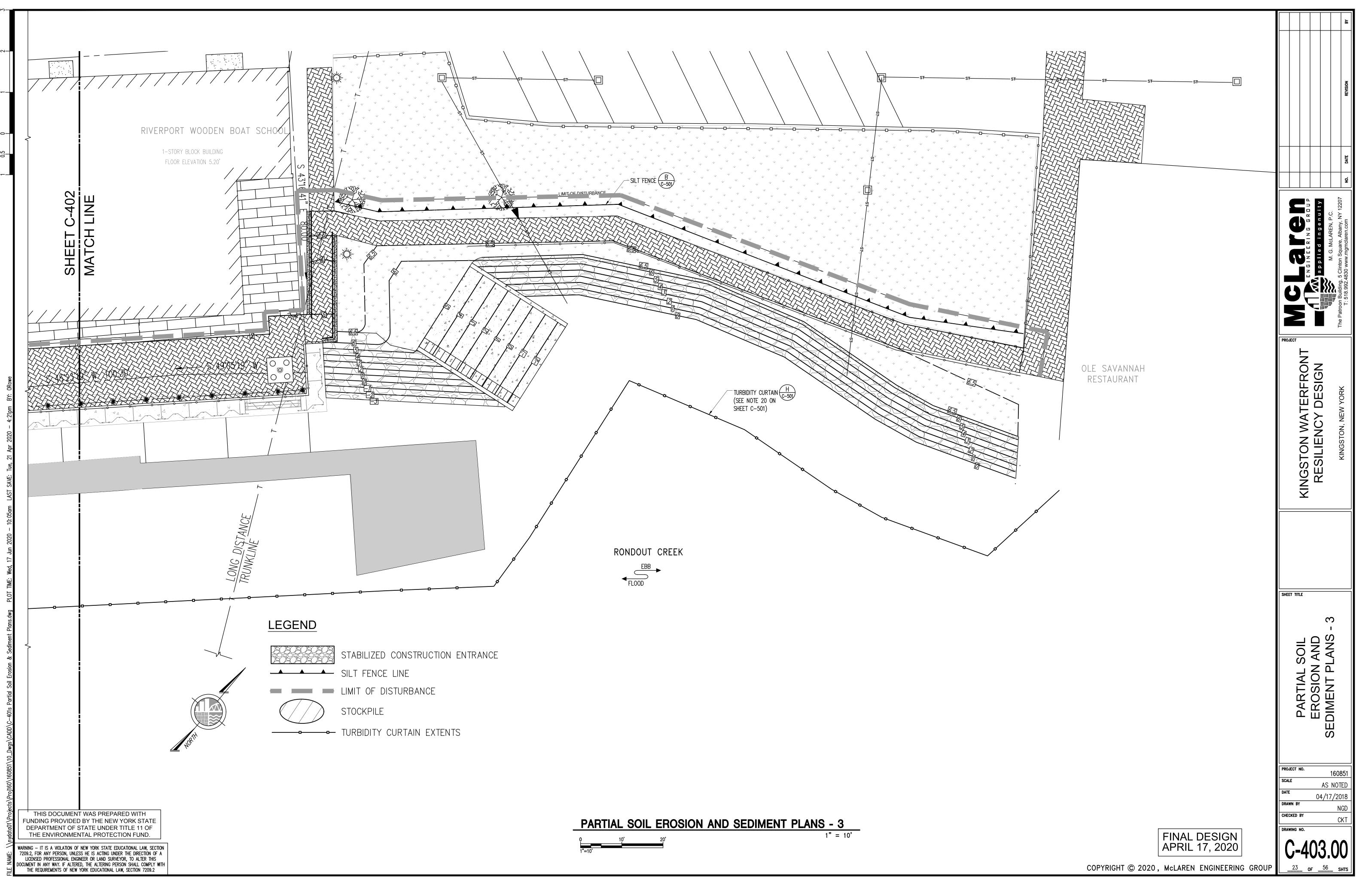






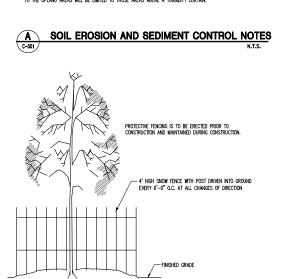






- ALL SOIL EROSON AND SEDMENT CONTROL FPACTICES SHALL BE INSTALLED IN ACCORDANCE WITH NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSON AND SEDMENT CONTROL (NYSDEC, DNISON OF WATER, LATEST EDITION) AND SPECS GENERAL PERMIT FOR STORWARDE DISCAMESE TRANCONSTRUCTION CONTUNITY (FEBUTI NO. 02–0-15–00).
 CONSTRUCTION SHALL BE SEQUENCED IN ACCORDANCE WITH THE CONSTRUCTION SEQUENCE NOTES.
 ONSTRUCTION SHALL BE SEQUENCED IN ACCORDANCE WITH THE CONSTRUCTION SEQUENCE NOTES.
 MAY DISTINUED AREAS THAT HAR LET LET EPOSED MORE THAN 14 DAYS. AND ARE NOT SIBLECT TO CONSTRUCTION TRAFFIC, WILL MARLINITLY RECEIVE A TRAFFORMEY SEEDING. IF THE SEASON PRE-INTS THE ESTABLEMENT OF A TEMPORARY COURT. THE DISTINGED AREAS THAT HAR BLACKED WITH STRAN, OR EQUIVALIST MATERIAL THE SEEDING WILL BE DONE IN ACCORDANCE WITH STANDARDS, AS FOLLOWS IN THE STANDARD AS AS FOLLOWS INTO STRUCTION TRAFFIC, WILL MARLINELS WILL DE MILCHED WITH STRAN, OR EQUIVALIST MATERIAL THE SEEDING WILL BE DONE IN ACCORDANCE WITH STANDARDS, AS FOLLOWS IN A READ ONLY THE MATERIAL THE SEEDING WILL BE DONE IN ACCORDANCE WITH STANDARDS, AS FOLLOWS IN ACCORDANCE WITH THE MATERIAL THE SEEDING WILL BE DONE IN ACCORDANCE WITH STANDARDS, AS FOLLOWS IN A READ ONLY THE MATERIAL THE SEEDING WILL BE DONE IN ACCORDANCE WITH STANDARDS, AS FOLLOWS IN A READ ONLY THE MATERIAL THE SEEDING WILL BE DONE IN ACCORDANCE WITH STANDARDS, AS FOLLOWS IN A READ ONLY THE MATERIAL THE SEEDING WILL BE DONE IN ACCORDANCE WITH STANDARDS, AS FOLLOWS IN A READ ONLY THE MATERIAL THE SEEDING WILL BE DONE IN ACCORDANCE WITH STANDARDS, AS FOLLOWS IN A READ ONLY THE MATERIAL THE SEEDING WILL BE DONE IN ACCORDANCE WITH STANDARDS, AS FOLLOWS IN ACCORDANCE WITH STANDARDS AS FOLLOWS IN ACCORDA
- STANDARDS, AS FOLLOWS: A FERTULZER FRETUZER SHALL BE APPLED AT THE RATE OF 14-LBS/1000 S.F. OR 600 LBS/ACRE, USING 5-10-10 OR EQUIVALENT. B. SEED: ANNUAL RYEGRASS APPLED AT THE RATE OF 30 LBS/ACRE, OR OTHER SELECT MOTURE DESCRIBED IN THE STANDARDS. C. MULCH SMALL GRAIN STRAM MULCH APPLED AT A RATE OF 30-LBS/1000 S.F. OR 2 TONS/ACRE, TO BE APPLED AND ANCHORED ACCORDING THE STANDARDS. ANY GRADED AREAS NOT SUBJECT TO FURTHER DISTURBANCE OR CONSTRUCTION TRAFFIC SHALL WITHIN 10 DAYS OF FINAL GRAUNDS, RECOME PERMINANT VECETATIVE COVER IN COMBINITION TIME SUTARLE MULCH AS FOLDORS. A FERTUZER: FERTUZER APPLED AT THE RATE OF 20-LBS/1000 S.F. USING 5-10-10 OR EQUIVALENT. SELECT MOTURE DESCRIBED IN THE STANDARDS.

- ARE SUMMARIZED. S. THE CONTINUOTO SHALL INSPECT THE EFFECTIVENESS AND CONDITION OF EROSION CONTROL DEVCES DURING STORM EVENTS, AFTER EACH NAMEAL OF INCE-HAIS (1/2) INCH MAINTUDE OR GREATER, FROM TO MEEDING AND FROM TO FORECASTED STORM A THE CONTRACTOR SHALL EARN OF REPLACE DURING DEVCES MORE DEVCES MORE DEVCES MORE THAN THENT-FOUND (24) MORE AFTER ORSERVING SUCH DEFICIENCES. S. THE CONTRACTOR SHALL EARNE THE ORSERVING SUCH DEFICIENCES. S. THE CONTRACTOR SHALL EARNE THE ORSERVING SUCH DEFICIENCES. S. THE CONTRACTOR SHALL EARNE ATTER ORSERVING SUCH DEFICIENCES. S. THE CONTRACTOR SHALL EARNE AND THE MEDIA THEMM DRANAGE CONTROL AND EROSON CONTROL MEASURES AS MAY BE INFECTIVE DRANAGE INFORMATION TO INTEL THE INFERNMENT, MATERIALS AND LABOR NECESSARY TO EFFECT DEREBORY EPOSON CONTROL AND DRANAGE EMPOREMENTS WHAT THEMES VERHAUME. TO ANTERIALS SHALL DRANGE TO THE CONTRACTOR SHALL INFORMATION ON THOM DRANGE TO ANTERNAS ON TO ALL SOL REGISTON AND SISTMENTATION CONTROL MEASURES. SHALL BE MANTANED BY THE CONTRACTOR INTEL TRAL ASSURE THE STEE WORKSTON OR THE WORK ENDOR OF FRAM. ADCEFTING. THE OWNER AND ANALY ANALESING SERVICE PROSIDENT TO THOM. TO ALL SOL REGISTON AND SISTMENTATION CONTROL MEASURES. THE ONTER MULL ASSURE SESSIONS INTO THE POSTIAL FOR THE STEE WORKSTON OR THE WORK ENDOR OF FRAM. ADCEFTING. THE OWNER, THE ONTERNAL ASSURE SESSIONS THE POSTIAL FOR ONTERLE OR OFFSITE EROSION PROBLEMEST AND TOOLM. MEASURES. THE STEE WINKSTON OR THE WORK ENDOR TO AND SHALL BE STADIED TOOL MEASURES. THE STEE WORKSTON OR THE AND AND CHAN TA VAS SHALL BE STADIELT DER THE MARKERS TO MINIMUME THE POSTIAL FOR ONTEL OR OFFSITE EROSION PROBLEMEST AND TOOLS ADDITIONAL MEASURES. TO THE WINKSTON OR THE MUSCE OR THE STEE WORKS AND TOOL MEASURES. AND AND AND EXAMPLE MEDIA THAT MAY COLOR DURING CONSTRUCTIONAL MEASURES. TO THE WINKING OR STRUCK TOOL TO STADIE STRUCT ON CONTROL MEESTICE TO THE MATTING OR SPRAY BUISSIONS ARE ACCEPTIALE SUBJECT TO APPROVAL OF THE BONKER. THE PHASING AND PROBRESSION OF THE WORK ALONG THE BUISH



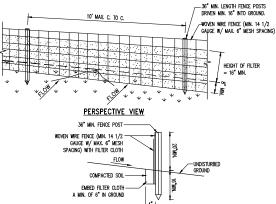
CONSTRUCTION SPECIFICATIONS

1. NO CONSTRUCTION ACTIVITY IS PERMITTED WITHIN THE PROTECTIVE FENCING. 2. AS CONSTRUCTION NEARS COMPLETION THE FENCING WILL BE REMOVED. 3. AT THE COMPLETION OF CONSTRUCTION ALL TREES WILL BE PRIVADE AS INCESSARY TO CORRECT ANY DAMAGE RESULTING FROM CONSTRUCTION ACTIVITY.

TEMPORARY TREE PROTECTION DETAIL C-501

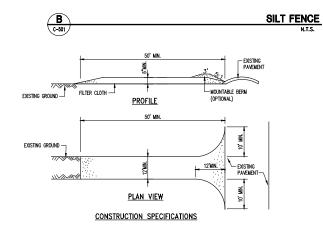
THIS DOCUMENT WAS PREPARED WITH FUNDING PROVIDED BY THE NEW YORK STATE DEPARTMENT OF STATE UNDER TITLE 11 OF THE ENVIRONMENTAL PROTECTION FUND.

WARNING – IT IS A MOLATION OF NEW YORK STATE EDUCATIONAL LAW, SECTION 72092, FOR ANY PERSON, UNLESS HE IS ACTINIS UNDER THE DRECTION OF A ULCHSICE PROFESSIONAL ENDWARKE OR LAWD STATISTIC STATE THIS DOCUMENT IN ANY WAY, IF ALTERED, THE ALTERED HE ALTERNG FERSON SHALL COMPLY WITH THE REQUENCEMENTS OF NEW YORK EDUCATIONAL LAW, SECTION 7200.



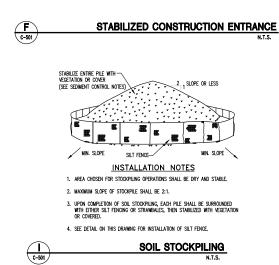


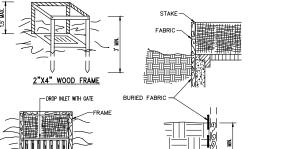
- 1. WOVEN WRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WRE TES OR STAPLES. POSTS SHALL BE STEEL ETHER TO TR 'U' TYPE OR HARDWOOD. 2. FLITER COLT NO E TO BE FASTENED SECURELY TO WOVEN WRE FENCE WITH TES SPACED EVERY 24' AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WRE, 12 / 2 AUJE, 6' MAXIMUM MESH OPENNE. WHEN TWO SECTIONS OF RILTER CAN HANDING LAND, FLITER THE SHALL BE OVER-LAPPED BY SX INCHES AND FOLDEL. FLITER COLT MANL BE ETHER FLITER X, MARKI 100, STBATEMENT THE VORTUBE CONTAINT. 4 RESTWOOD WITH SMALL BE ETHER FLITER X, MARKI 100, STBATEMENT THE SHALL BE OVER-LAPPED BY SX INCHES AND FOLDEL. 4 RESTWOOD WITH SMALL BE ETHER FLITER X, MARKI 100, STBATEMENT AT ANN, OR APPROVED EDUNALIT.
- 5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.



STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
 LENGTH - NOT LESS THAN 50 FET [CXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY].
 SI THORDESS - NOT LESS THAN SIX (6) NOVES.

- 3. THOORESS NOT LESS THAN SX (6) NOTES. 4. WOTH THE VERY (7) FOR MINIMUM, BUT NOT LESS THAN THE FULL WOTH AT POINTS WHERE INGRESS OR EGRESS COLURS. THENT-FORM (2) TOT F SINGLE DITABACE TO STE-5. RILER CONT. HULL BE FLACED ORF THE EVIRE AREA PROPR TO PLOADING OF STONE. 6. SUFFACE WATER ALL SUFFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION. DITABACES SHALL BE PPED ACROSS THE DITABACE. FINIS IS INFRACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION. DITABACES SHALL BE PPED ACROSS THE DITABACE. FINIS IS INFRACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION. DITABACES SHALL BE PPED ACROSS THE DITABACE. FINIS IS INFRACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION. DITABACES GREGORY OF SEDINATION POLICIC INSTITUCTION, A MONTANED IN A CONTON WHICH WILL PREVENT TRACKING OR FLOWING OF SEDINGT ON POLICIC INSTITUCTION, ALL ON CHARLE DIVERTING THE INSTITUCTION OF AND A PROVED IN INSTITUCTION THE CHARLES AND A CONTON WHICH WILL PREVENT TRACKING OR FLOWING OF IN INSTITUCTION THE DIVERSION OF AN ALL SEDINGTING THAT DIVERSION OF AND AN APPROVED IN INSTITUCTION TO DIVE ONE ON A A AREA STABLIZED WITH STONE AND WHICH DAILS INTO AN APPROVED 18. INSTITUCTION TO DIVE ONE ONE ON A REA STABLIZED WITH STONE AND WHICH DAILS INTO AN APPROVED 29. PERIODIC INSPECTION AND MEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.





INSTALLATION DETAIL 2" X 2" X 3/4" RUBBER BLOCK (TYP) 1/4" NYLON ROPE _ EXPANSION RESTRAINT GATHER EXCESS AT CORNERS



(D) (C-501

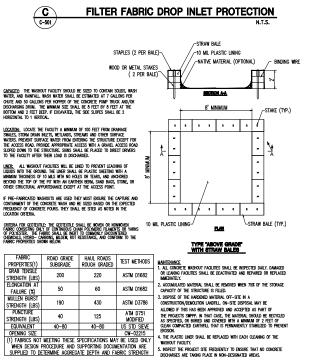
ROPE OR CABLE WITH FLOATS

CH

FILTER FABRIC SHALL HAVE AN EOS OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
 CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY MUL BE OVERLAPPED TO THE NEXT STAKE.
 STAKE MATERALS MUL BE STANDARD Z' × 4 WOOD OR EQUIVALENT. METAL WITH A MINIMUL ELECTH OF 3 FEET.
 STAKE STORYL FADOLING NUCLT S FEET APARCT AND ROVE A MINIMUM IS MICHS DEEP. SPANS GREATER THAN 3 FEET MAY BE BRODGED WITH THE USE OF WIRE MESH BEIND THE FILTER FABRIC FOR SUPPORT.
 FABRIC STALL BE DEBEDDED 1 FOOT MANIMUM BELOW GROUND AND BACKFILED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.

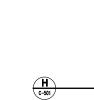
CONSTRUCTION SPECIFICATIONS

- A 2" x 4" NOVE TRANE SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY. MAXIMUM DRAINAGE AREA 1 ACRE.



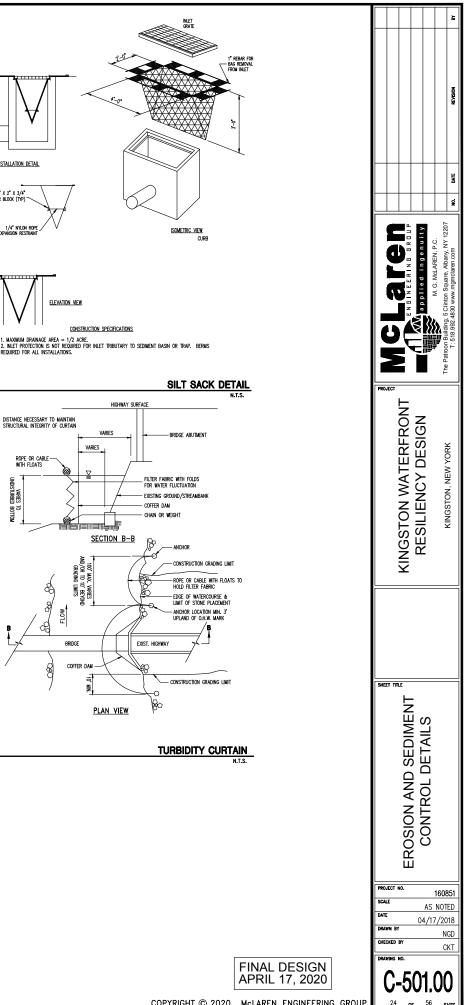


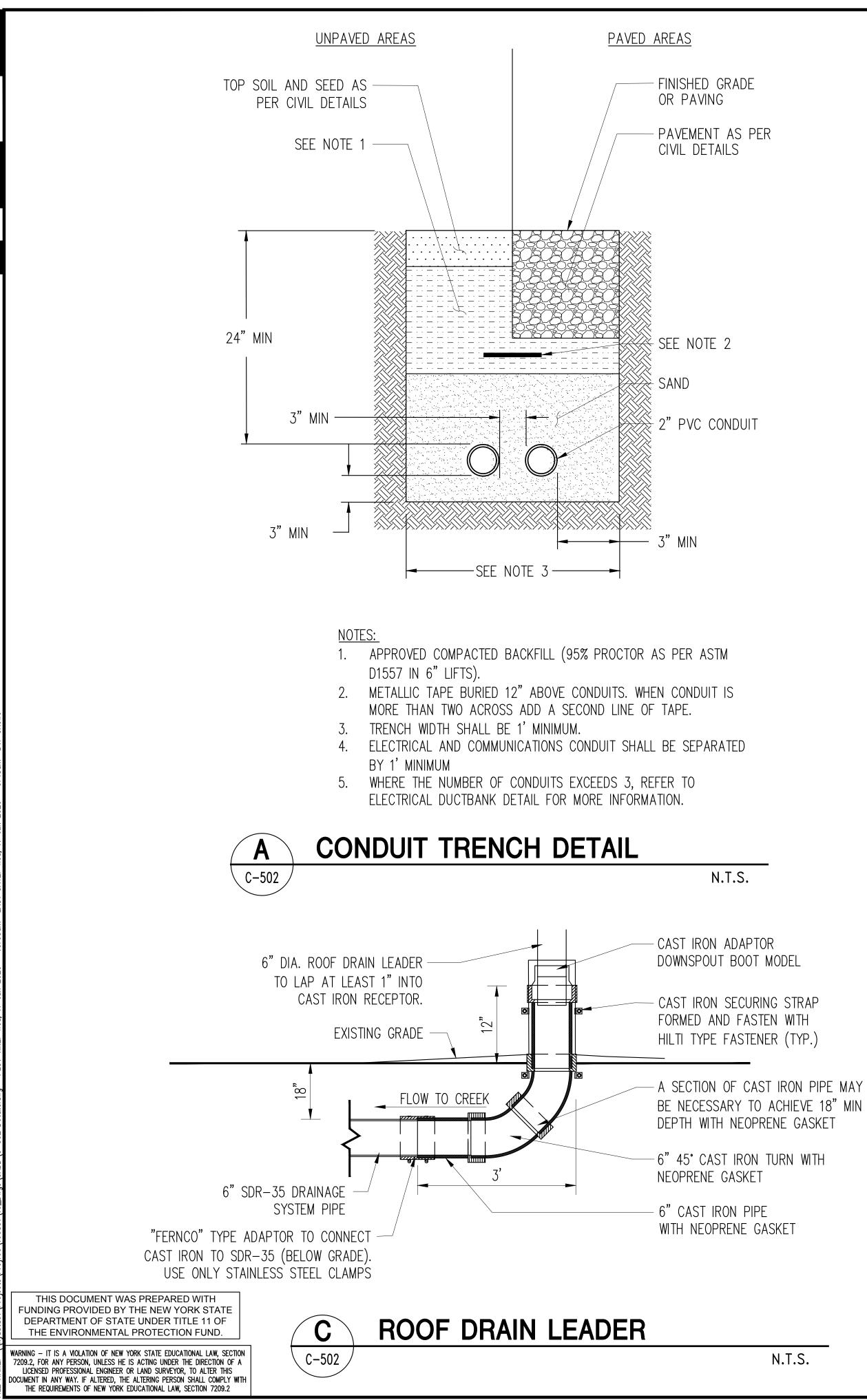
CONCRETE TRUCK WASHOUT N.T.S.



EROSION AND SEDIMENT CONTROL DETAILS

G (-501





N.T.S.

SELECT GRANULAR -

B

C-502

a

С

—10"SQUARE—

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SINGLE TEMPERATURE (MODELS 8170, 8171) Hot & Cold .(Models 8175, 8176)

A-REMOVE THE DOOR FRAME (1) SHOWN FROM THE

B- SELECT RECESSED MOUNTING LOCATION AND LAY ONE CUBIC FOOT OF PEA GRAVEL ③ BELOW

TOP OF PEA GRAVEL. PLUMB AND LEVEL AS

D-MAKE UP SUPPLY CONNECTION(S) AS REQUIRED TO 3/4" NPTI ④ VALVE INLET(S) AND TEST FIXTURE FOR LEAKS AND OPERATION.

INSTALLATION INSTRUCTIONS:

вох ②.

REQUIRED.

D

C-502

b

1'-0" 0.D.

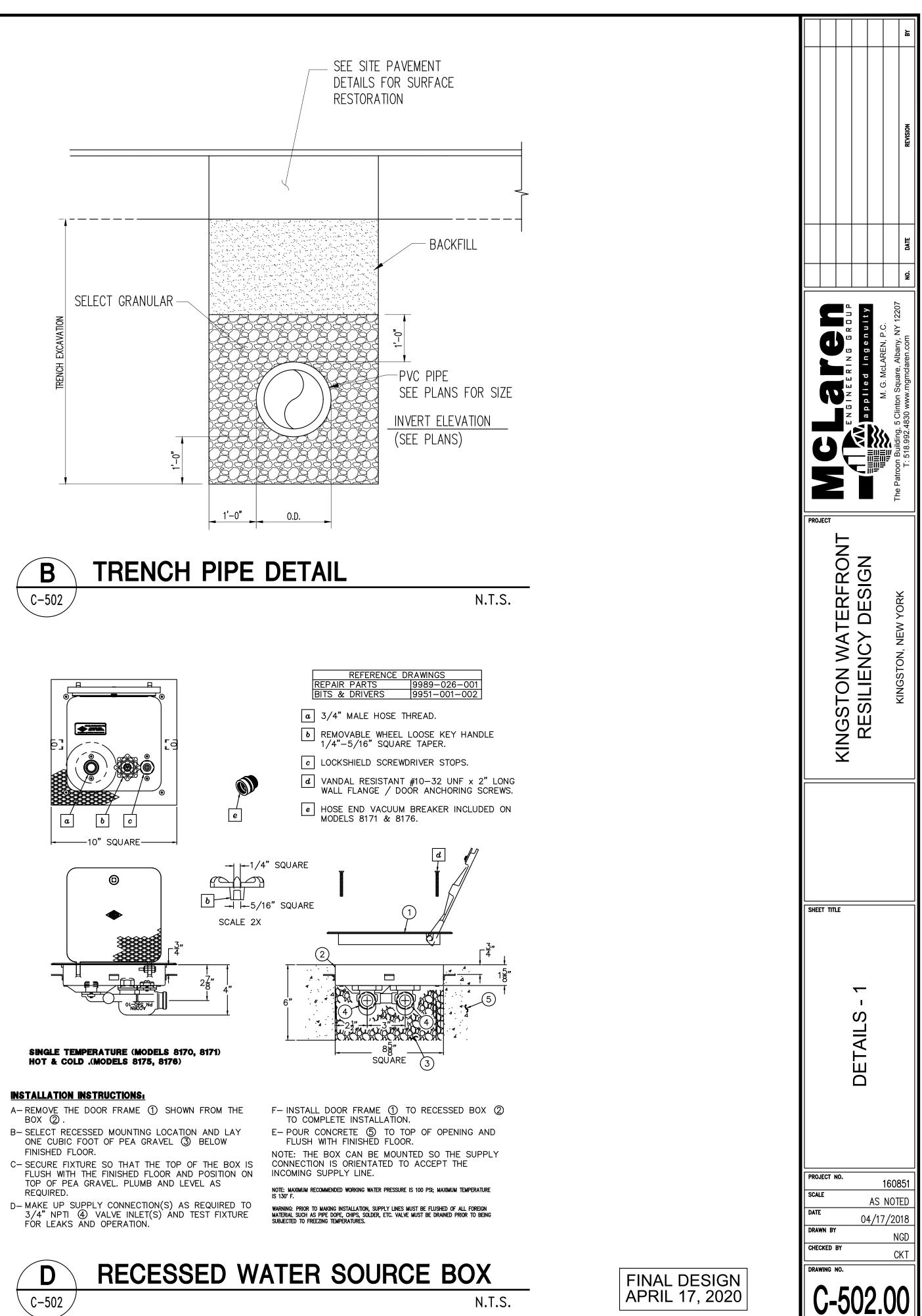
TRENCH PIPE DETAIL

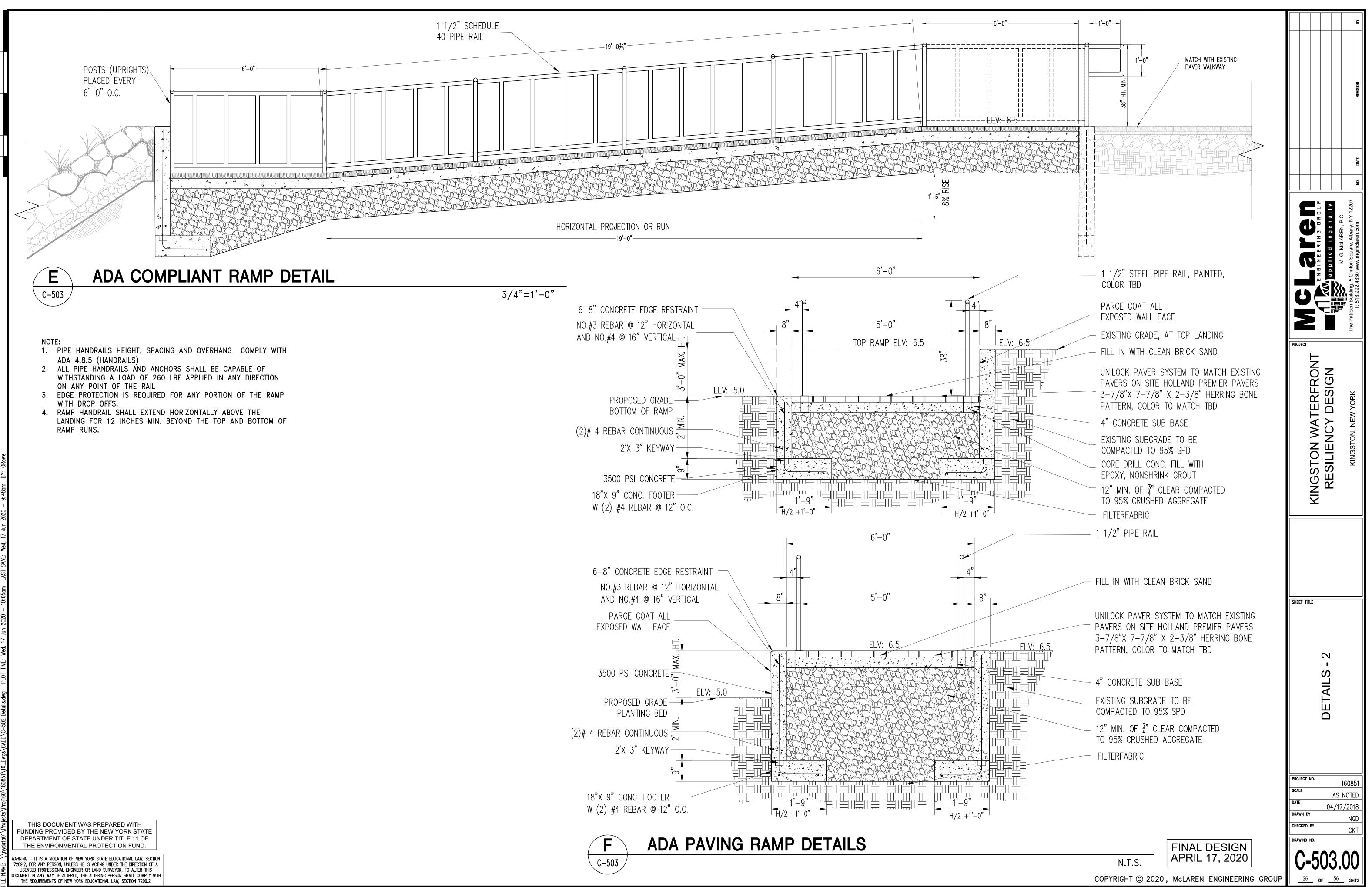
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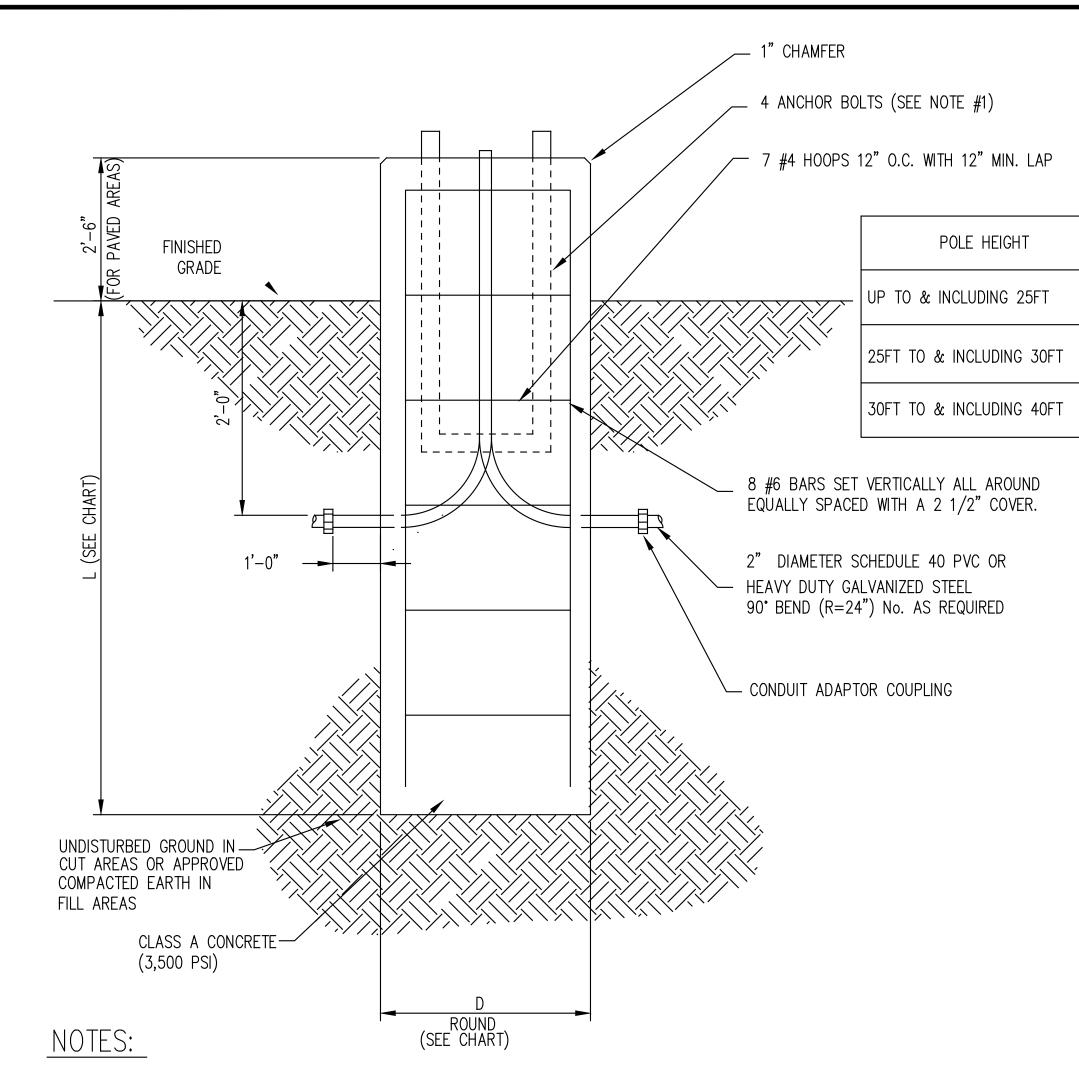
rehen

SCALE 2X

b

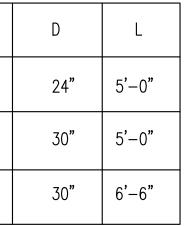


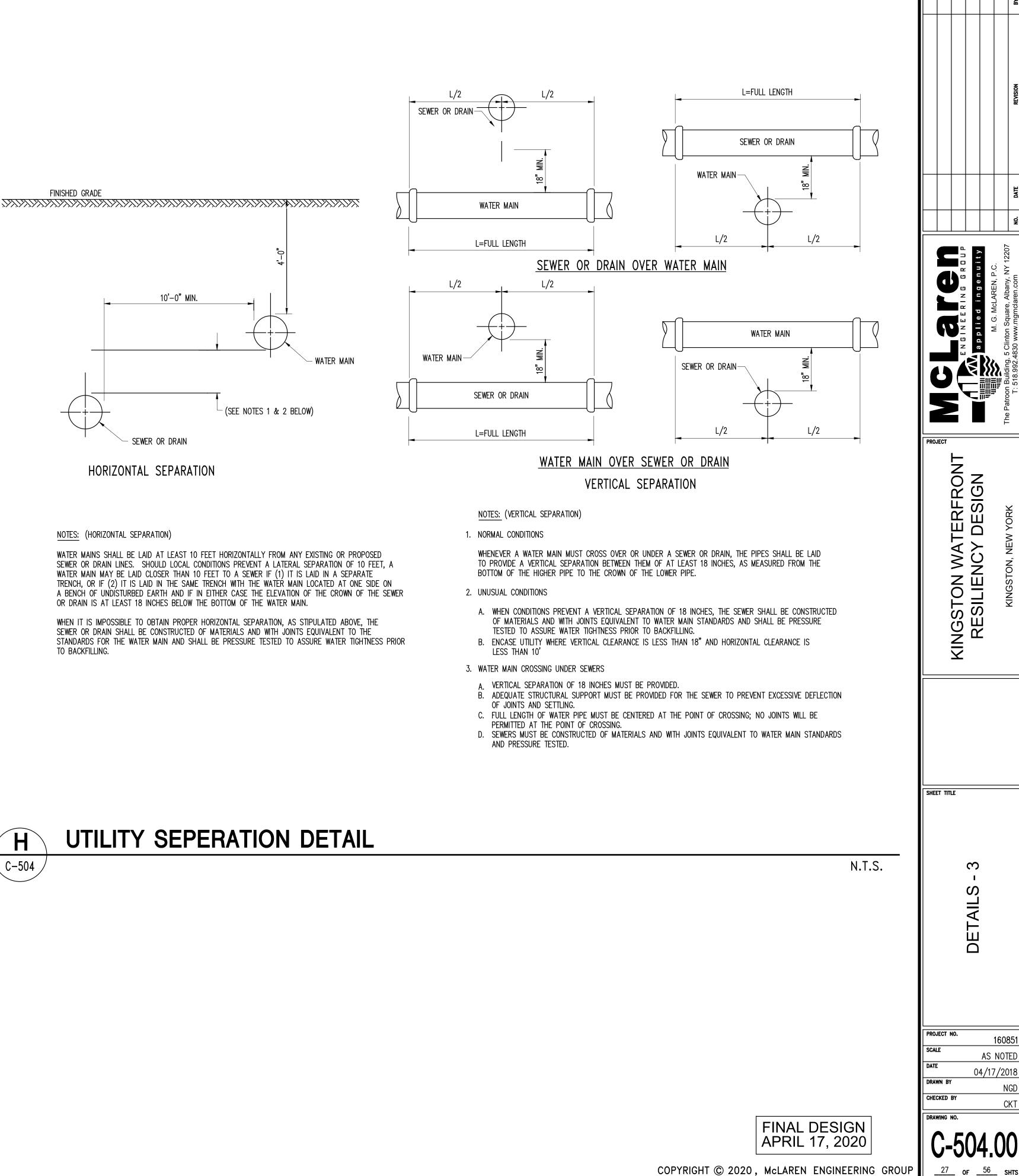




- 1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CHECK AND VERIFY ALL ANCHOR BOLT DIMENSIONS (SIZE, BOLT CIRCLE, ETC.) WITH THE CONTRACTOR WHO WILL BE INSTALLING THE LIGHTING STANDARD PRIOR TO INSTALLATION OF THE FOUNDATIONS.
- 2. CHAMFER EXPOSED EDGES OF ALL FOUNDATIONS.
- 3. PROVIDE INSULATED GROUNDING BUSHING ON EXPOSED ENDS (IN BASE OF POLE) OF ALL GALVANIZED STEEL BENDS.

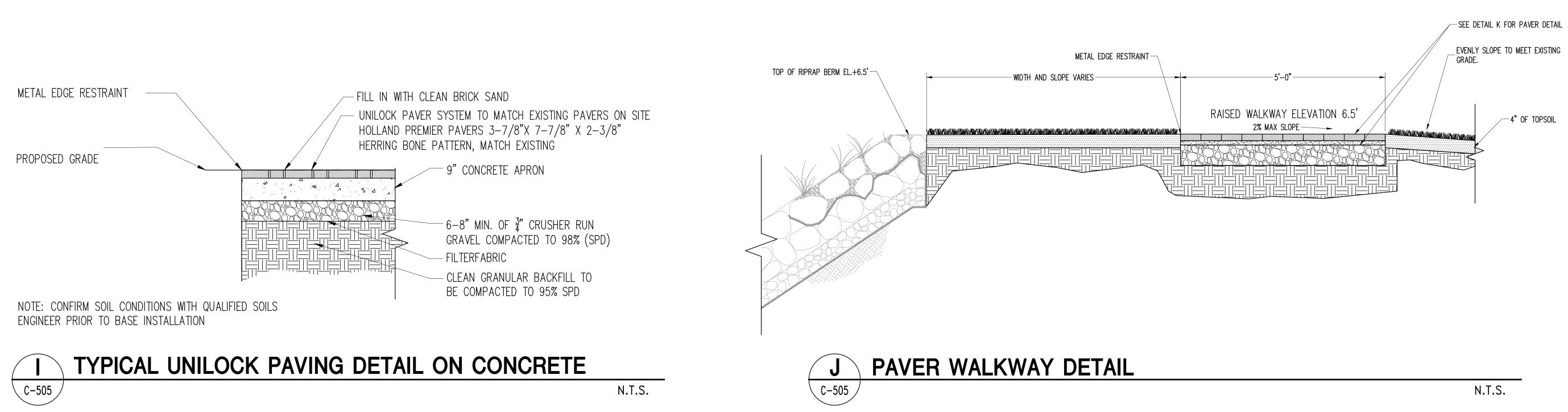


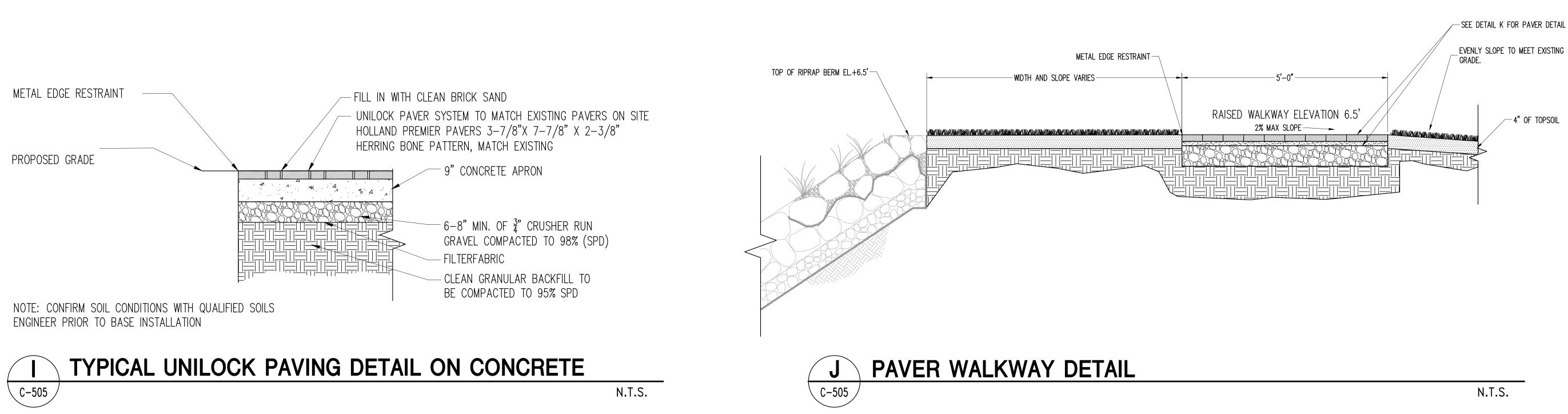


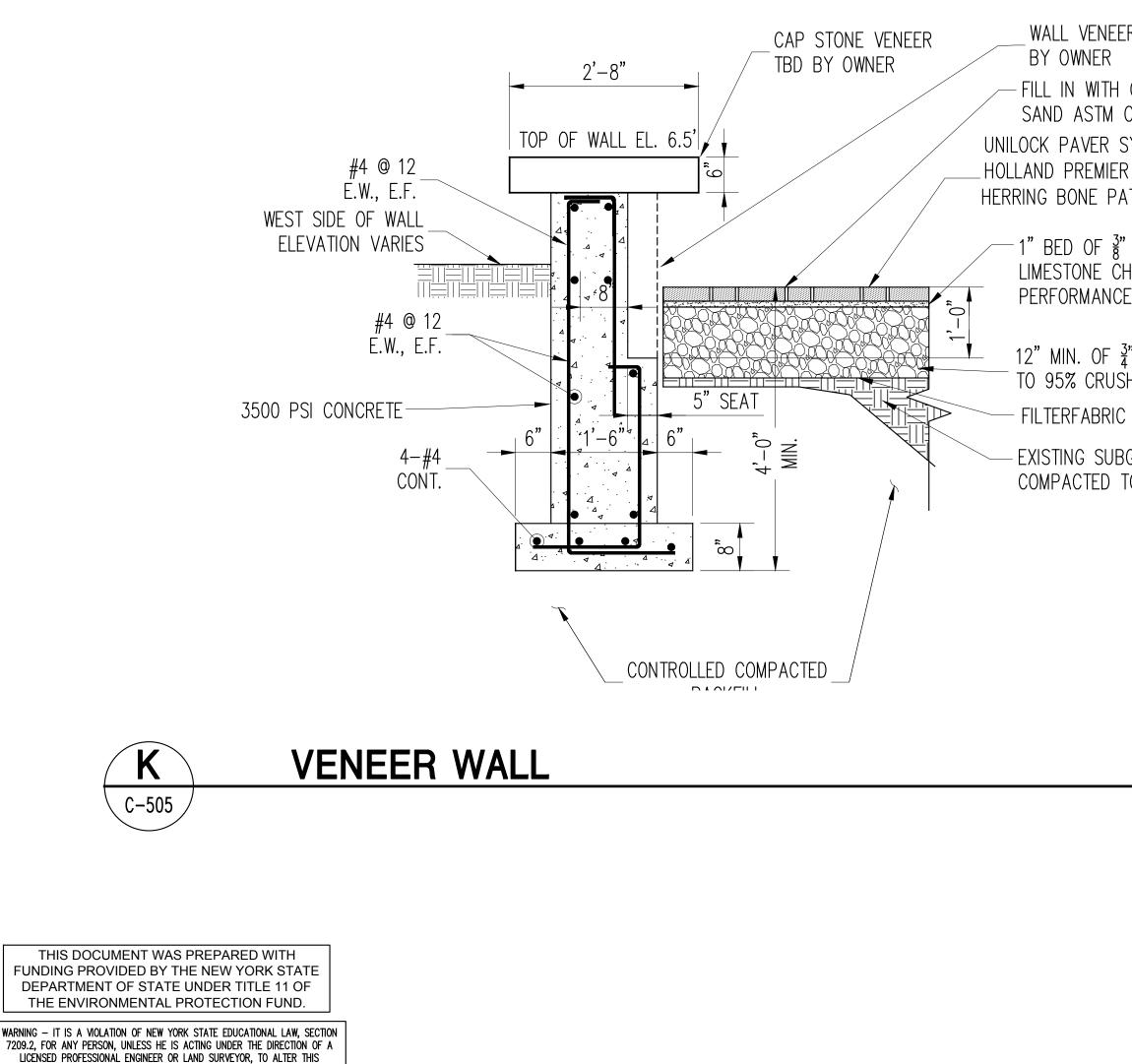


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N.T.S.







OCUMENT IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH

THE REQUIREMENTS OF NEW YORK EDUCATIONAL LAW, SECTION 7209.2

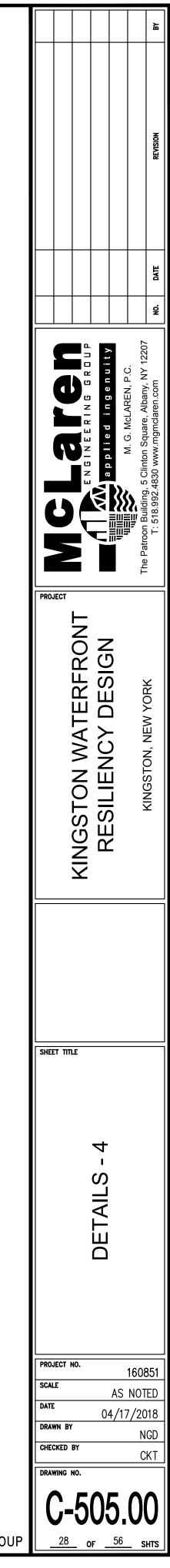
WALL VENEER MATERIAL TBD - FILL IN WITH CLEAN POLYMERIC SAND ASTM C144 UNILOCK PAVER SYSTEM TO MATCH EXISTING PAVERS ON SITE. _HOLLAND PREMIER PAVERS 3-7/8"X 7-7/8" X 2-3/8" HERRING BONE PATTERN, COLOR TO MATCH EXISTING

-1" BED OF $\frac{3}{8}$ " SHARP ANGULAR WASHED LIMESTONE CHIPS LEVELING BED HIGH PERFORMANCE BEDDING

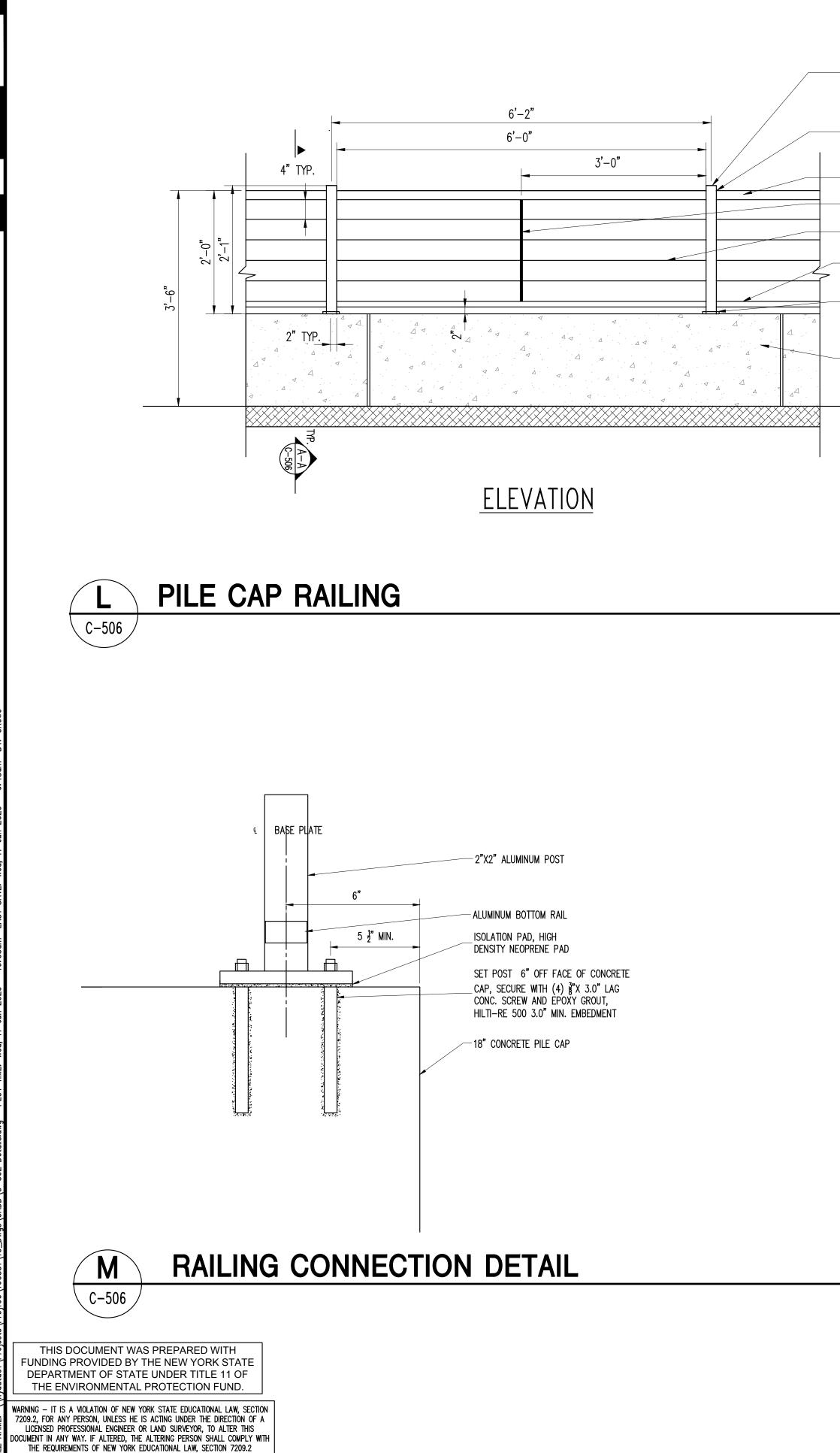
12" MIN. OF $\frac{3}{4}$ " CLEAR COMPACTED TO 95% CRUSHED AGGREGATE

- EXISTING SUBGRADE TO BE COMPACTED TO 95% SPD

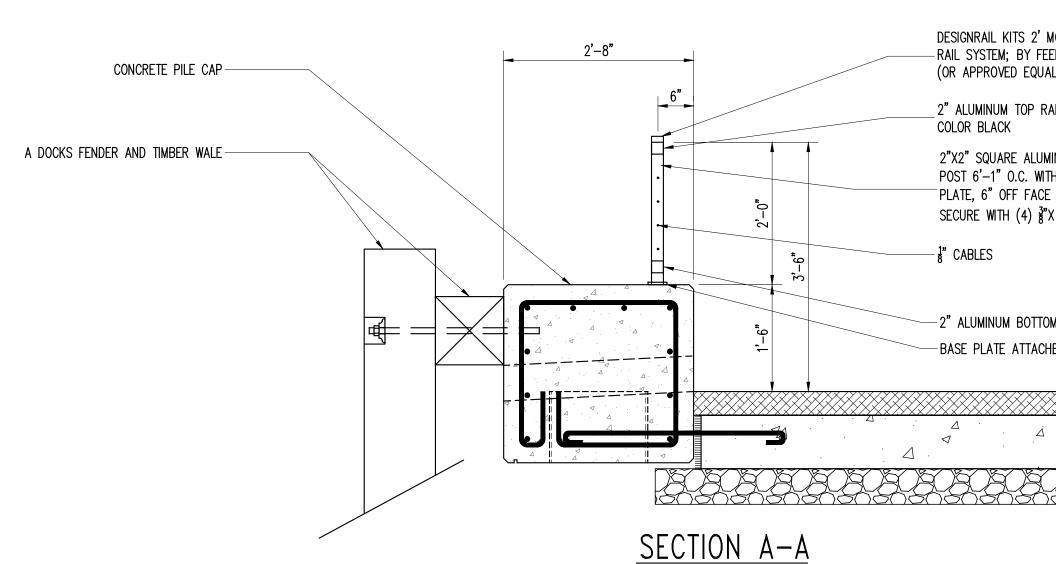
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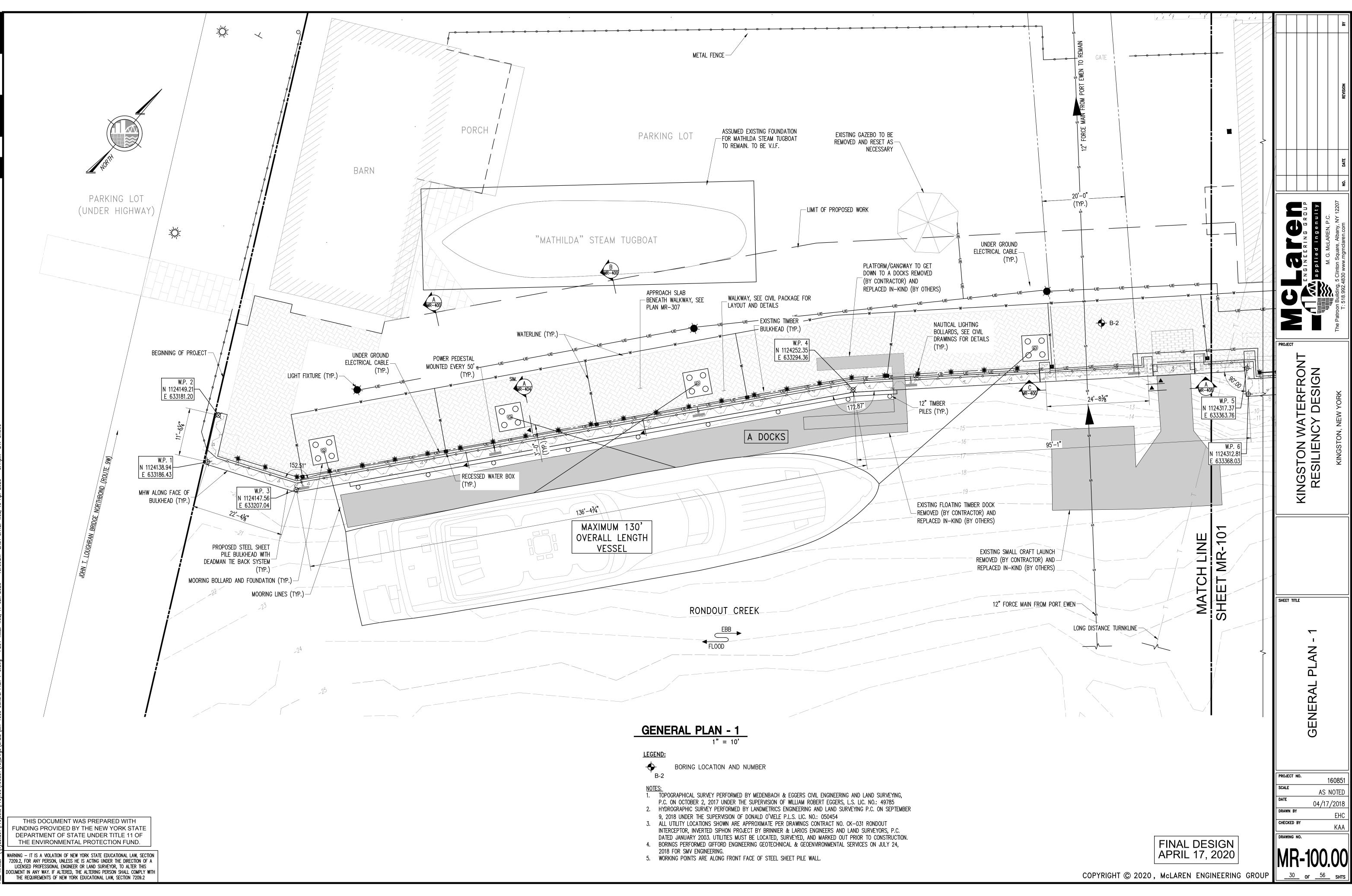
N.T.S.

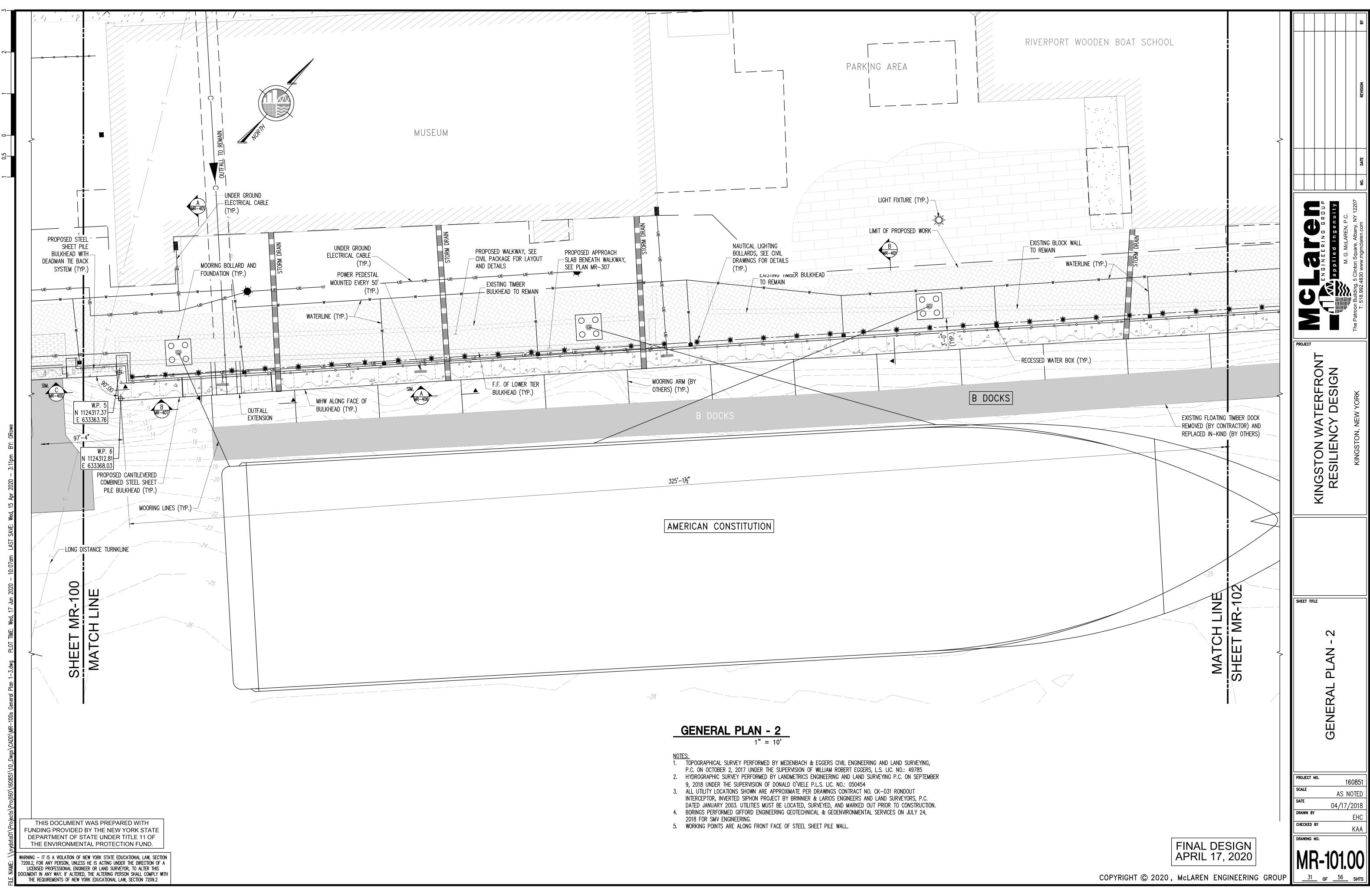
NOTE: 1. FENCING HEIGHT SHALL BE NOT LESS MEASURED VERTICALLY ABOVE THE AD 2. FENCING SHALL NOT HAVE OPENINGS A SPHERE 4 INCHES IN DIAMETER FRO TO THE REQUIRED GUARD HEIGHT.

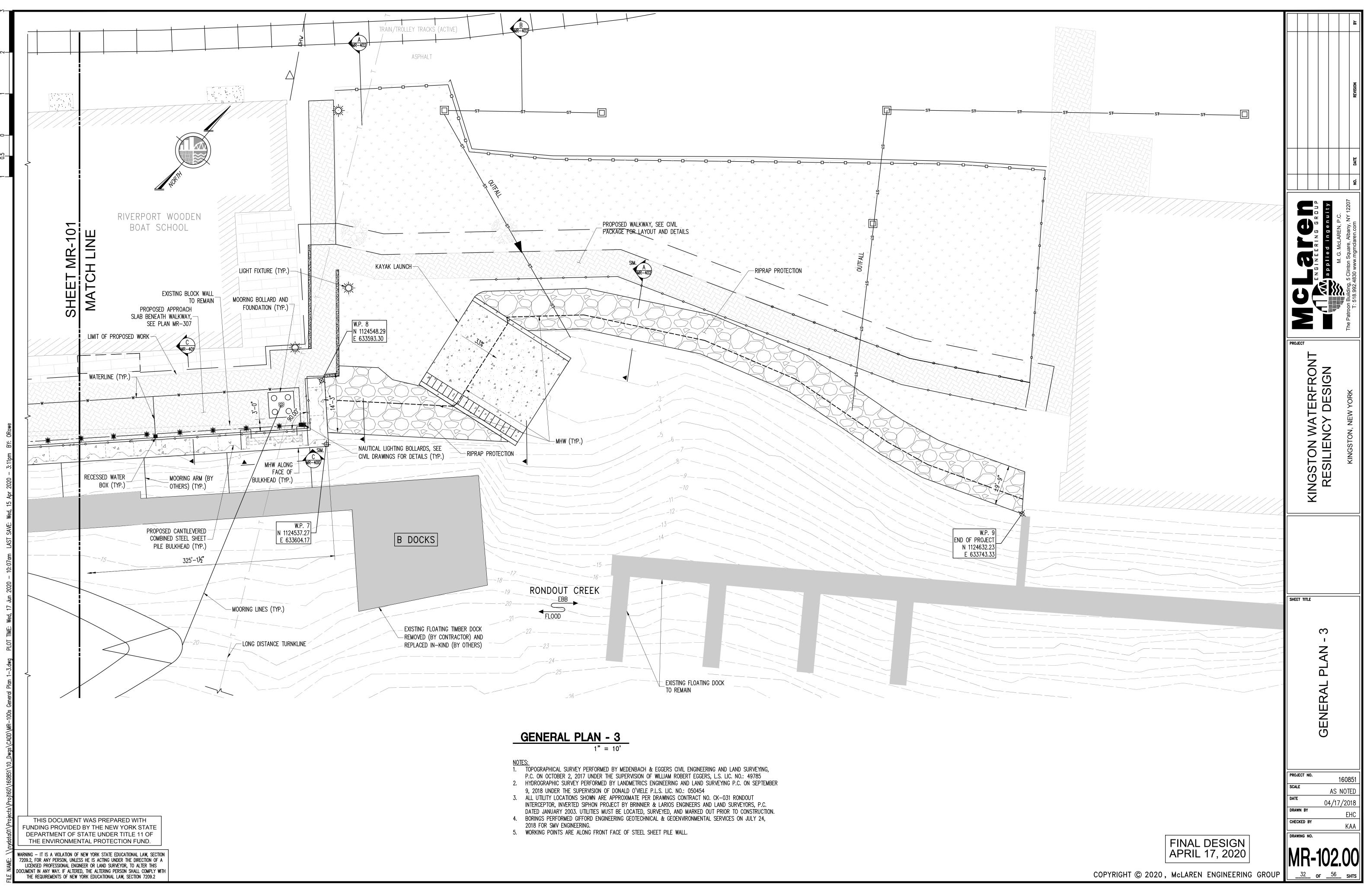
- DESIGNRAIL KITS ALUMINUM CABLE RAIL; BY FEENEY WWW.FEENEYINC.COM (OR APPROVED EQUAL)
- 2"X2"X25" SQUARE ALUMINUM PRE -DRILLED POST 6'-2" O.C. WITH ATTACHED BASE PLATE. COLOR BLACK
- 2" ALUMINUM TOP RAIL 6' LENGHT
- -PREDRILLED INTERMEDIATE PICKET
- ¹/₈" CABLES
- -2" ALUMINUM BOTTOM RAIL 6' LENGTH
- -BASE PLATE ATTACHED SEE DETAIL
- -18" CONCRETE PILE CAP

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		M CL A L A	ENGINEERING GROUP	M. G. McLAREN, P.C.	T: 518.992.4830 www.mgmdaren.com
		PROJECT		E E	
THAN 42 INCHES HIGH, DJACENT WALKING SURFACES. WHICH ALLOW PASSAGE OF OM THE WALKING SURFACE			FRONT		
			NCV DE		KINGS I UN, NEW YURK
			KINGSTON WATERFRONT		KINGS
MODULAR ALUMINUM CABLE EENEY WWW.FEENEYINC.COM AL)			×		
, RAIL 6' LENGTH,					
MINUM PRE DRILLED TH ATTACHED BASE E OF CONCRETE CAP, "X 4.5" LAG SCREW		SHEET TIT	E		
OM RAIL 6' LENGTH HED SEE DETAIL					
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			DETAILS		
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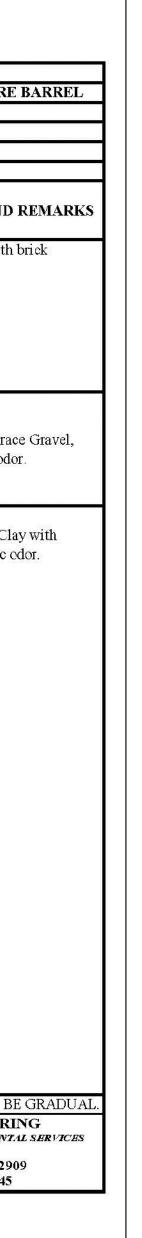




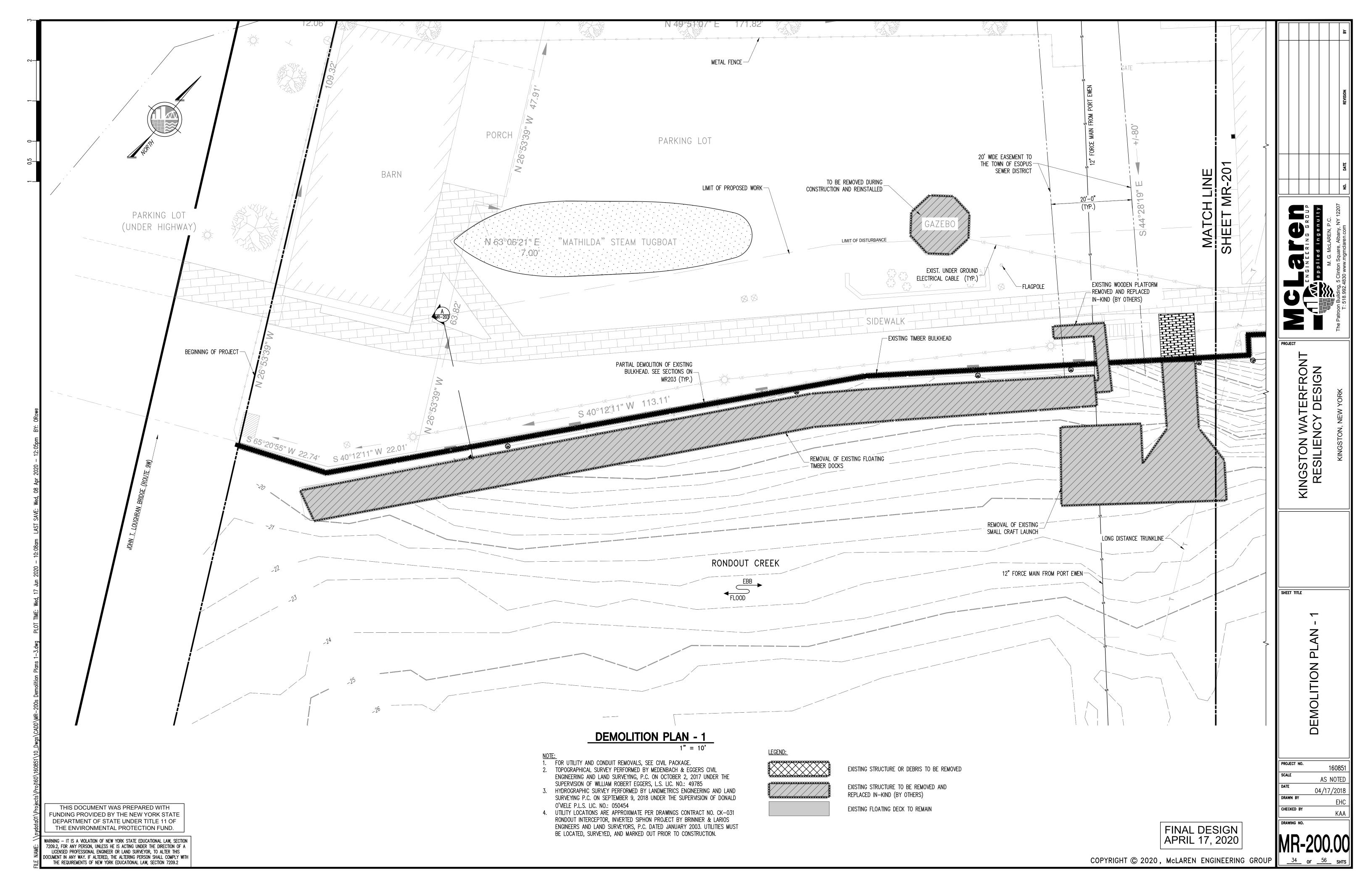
P	ROJI	ECT NAME:		New	Wharf W	'all					FILE NO.:	1835
	BC	DRING NO.:		В	-2 (page	1 of 2)				CASING	SAMPLER	CORE
		CLIENT:		SI	MV Engiı	neering			TYPE:	HSA	SS	
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	0.5-012-01	ORING LOC.	1911-941-111-641-641-641-		2 ultimitize and strang	tion Diag	- MC 01/11/0, 11/10/		HAMMER WT:		140#	
11	SUR	FACE ELEV			See Loca	tion Diag	gram		HAMMER FALL:		30"	
DEPTH		NEDTH	201 44.2	MPLE	ONGA			COL.	STRATA		LAGIELOATI	
EP	NO.	DEPTH RANGE	0-6	6-12	' ON SA 12-18	MPLER 18-24	REC.	Α	CHANGE	FIELD C.	LASSIFICATI	.U.N AND
D	S-1	0.0' - 2.0'	<u>и-в</u> 4	6-12	12-18	18-24	1.8'			Dicol: mot	medium dense,	alex with
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			1		6	10			8'			
									0			
									1			
10	S-3	10.0' - 12.0'	WOH	Ι			2.0'		1	Grey, wet, l	oose, Sand, littl	le Silt, tra
					WOH	2				SM, probab	le native with c	rganic od
]				
									14'			
15	S_/I	15.0' - 17.0'	WOH	1			2.0'			Grev wet s	soft, varved Sil	t trace C1
	- 4	15.0 - 17.0	WOII	ي ل ي.	2	2	2.0			anatoria and and a second of the	ine Sand layers	
									1	1999 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 1999 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2 1999 - 2019 - 20		,2
	(
20										45526 112		
	S-5	20.0' - 22.0'	WOH	WOH	WOLL	IVOL	2.0'	4	-	Similar.		
					WOH	WOH			1			
	<u>,</u>											
25												
20	S-6	25.0' - 27.0'	N/A	N/A		0204524-331	2.0'			Shelby Tub	e Sample.	
					N/A	N/A						
									-			
30	S-7	30.0' - 32.0'	WOH	WOH			2.0'		1	Similar.		
					WOH	WOH						
				0				-	-			
35	S-8	35.0' - 37.0'	WOH	WOH			2.0'			Similar.		
	~ ~	50,0 51,0			WOH	WOH]				
								1. 				
					-			1				
40	G 0	40.01 40.01	WOII	WOU			2.01		-	Civeller		
	5-9	40.0' - 42.0'	WOH	WOH	WOH	WOH	2.0'	-	-	Similar.		
					WC711	WUTT						
	<u></u>								1			
]			
TRA	TIFIC	ATION LINES	SREPRE	SENT AI	PPROXIN	1ATE BC	UNDA	RIES	BETWEEN SOIL TY			
	WA	TER LEVEL		Water at	5-7 feet.						IFFORD EN(NICAL & GEOENV	
DR	ILLE	R:	SIR S	ervices, li	nc - SW		T)ATE	17-Jul-18		865 Pears Niskayuna, NY	e Road
~ 11	فتقافيه ومعريده				~~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		e non non non e b el		- ' · · · · ·		THISKAYUNA, INY	382-2545

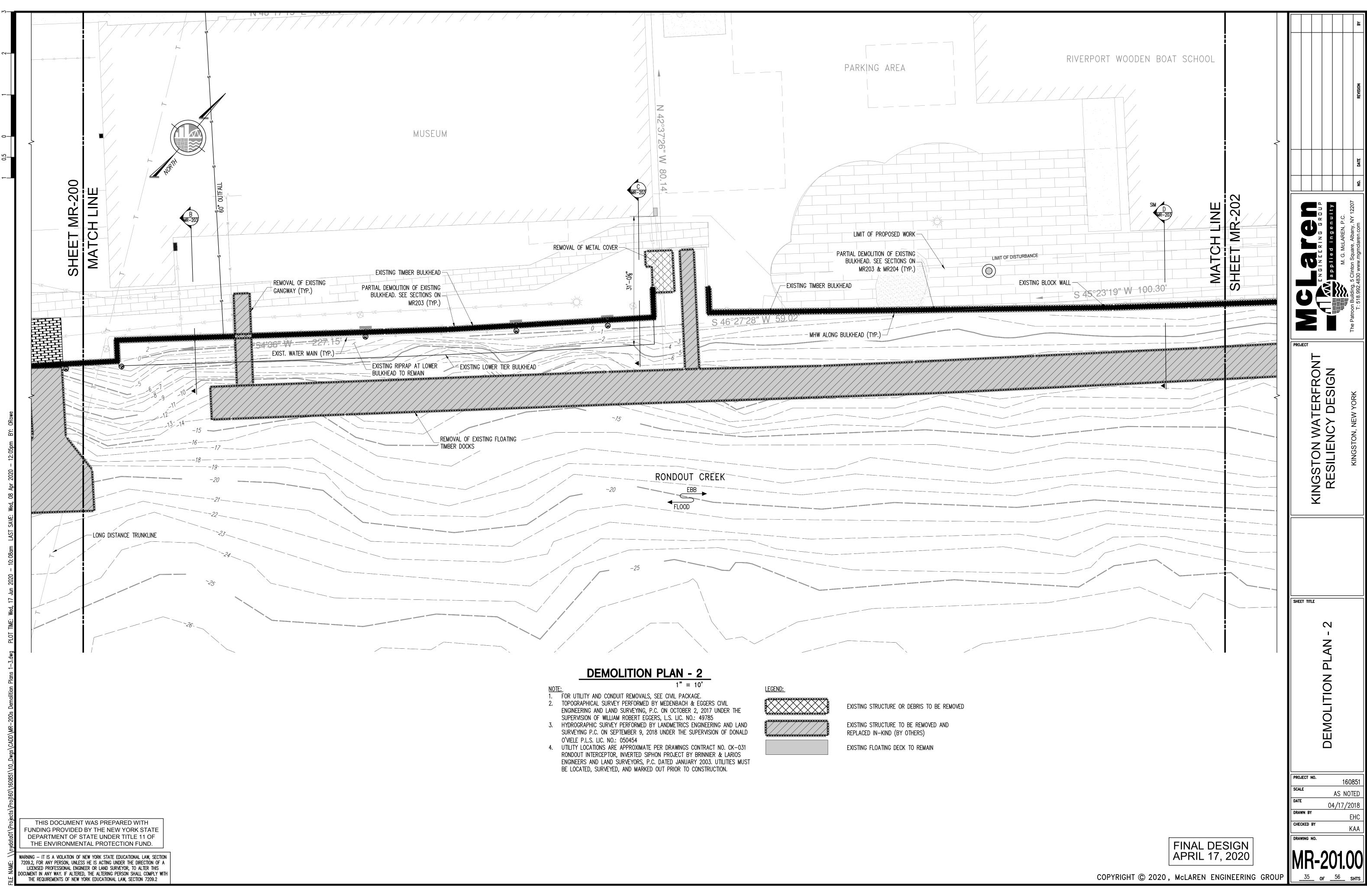
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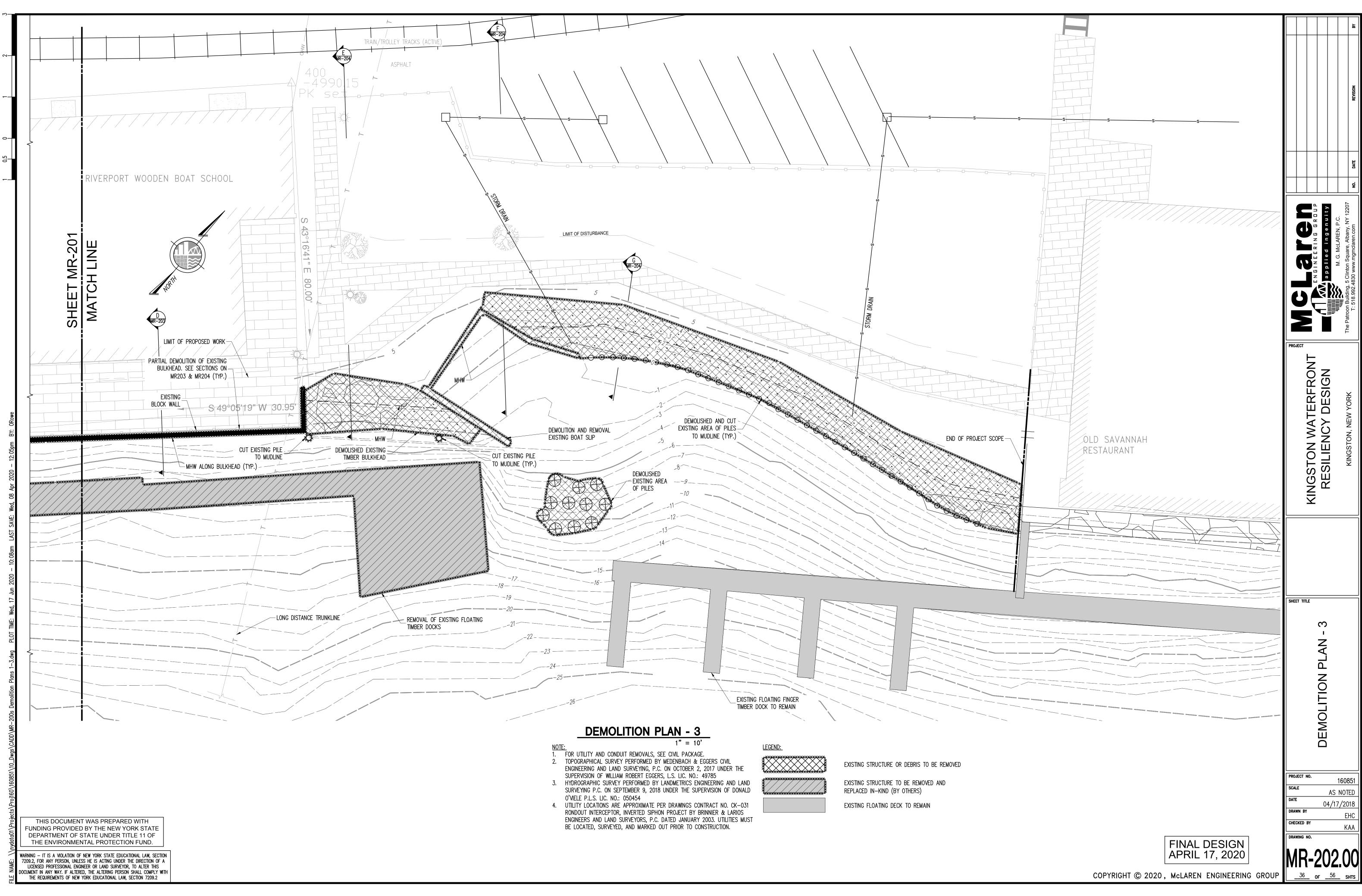
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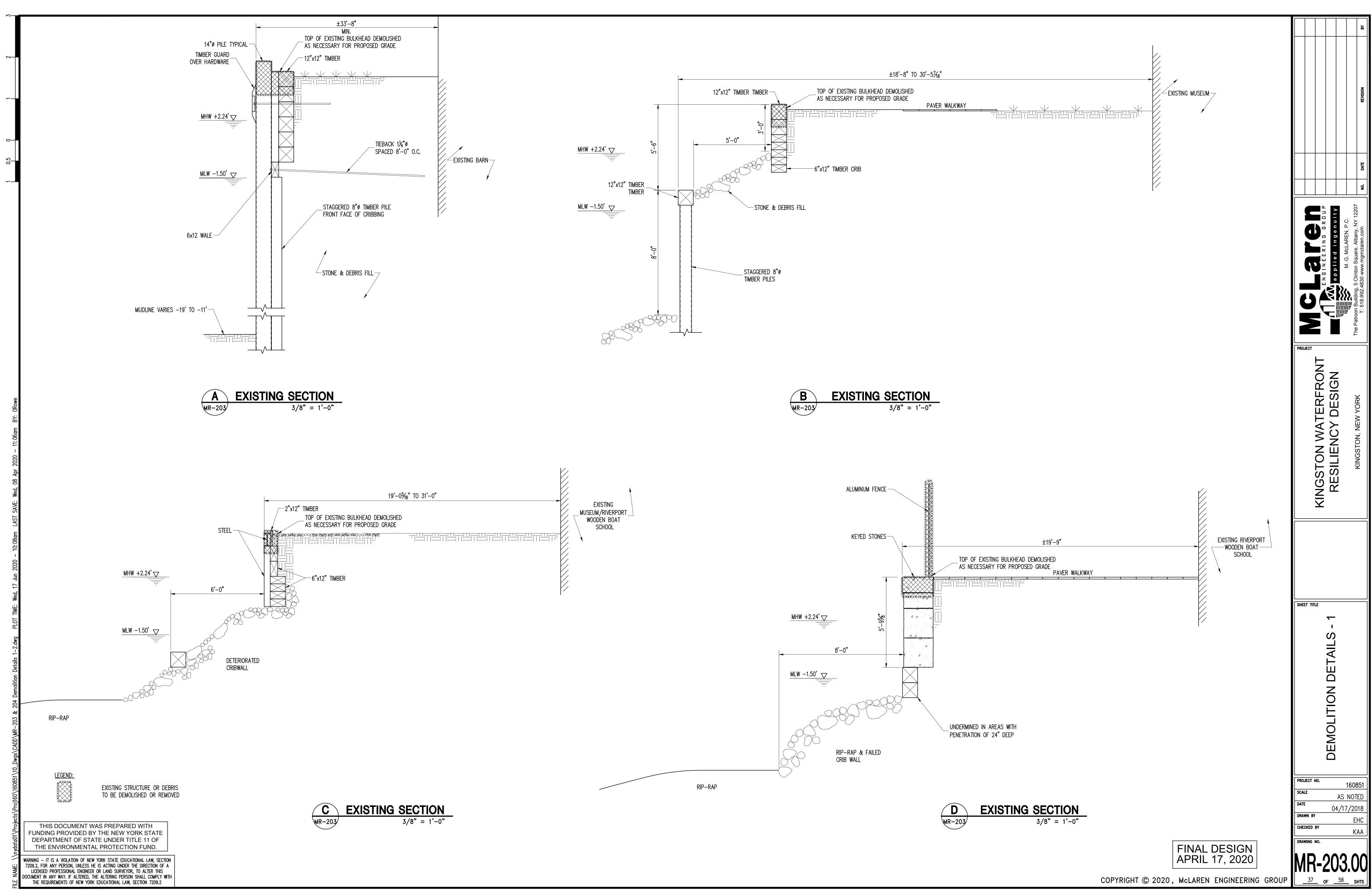


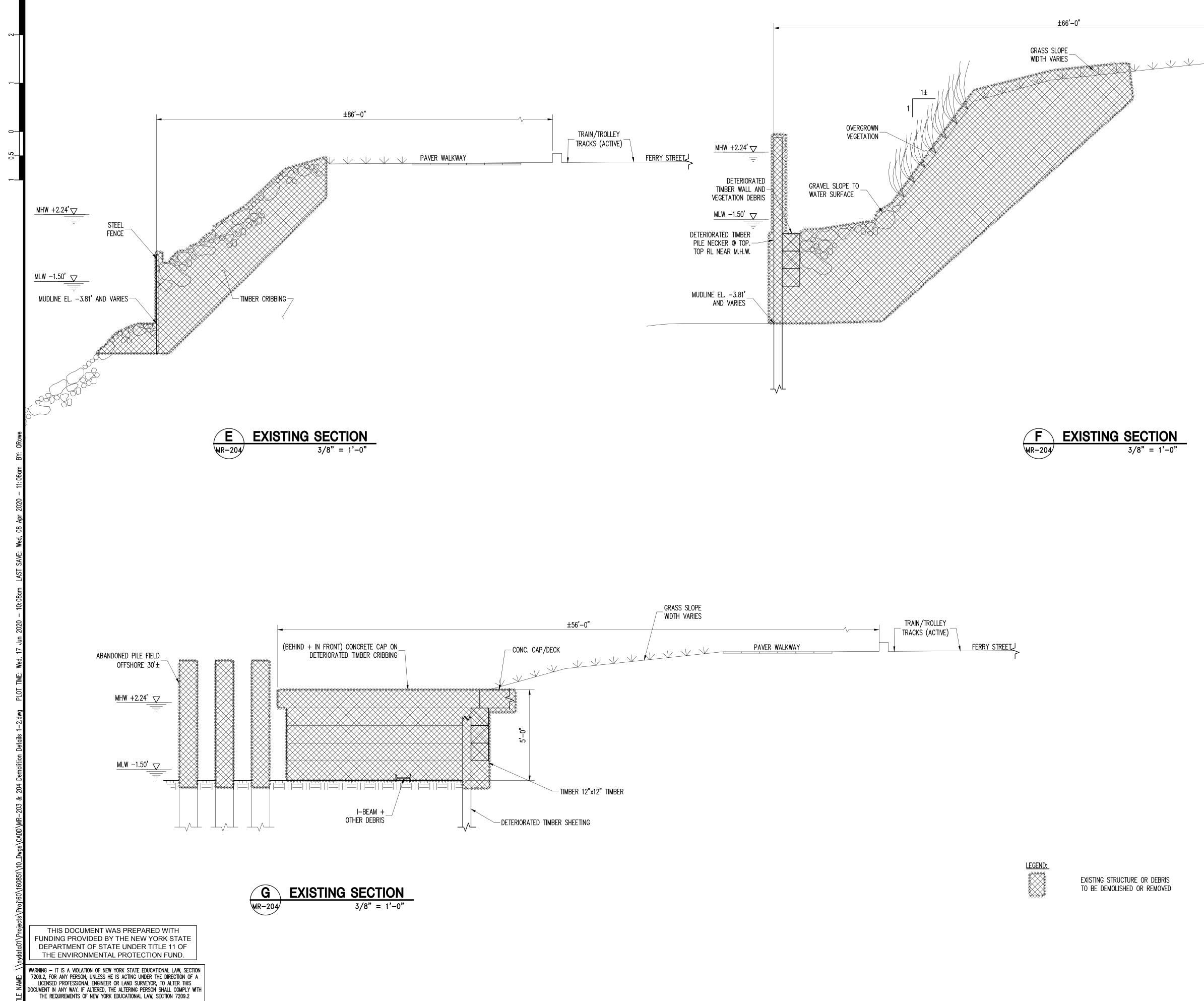
PROJECT NAME:	New Wharf Wall		FILE NO.: 1835		
BORING NO.: CLIENT:	B-2 (page 2 of 2) SMV Engineering	CASING TYPE: HSA	SAMPLER CORE BARREL		
SITE LOCATION: BORING LOCATIO	Kingston, NY	SIZE 1.D.: 4.25" HAMMER WT:	1.375" 140#		
SURFACE ELEVATIO	N: See Location Diagram	HAMMER FALL:	30"		Б П П П П П П П П П П П П П П П П П П П
	WS PER 6" ON SAMPLER	OL. STRATA A CHANGE FIELD CI Similar.	LASSIFICATION AND REMARKS		E E R I N G G. McLAREN
60 S-11 50.0' - 52.0'		Similar.			
5 8-12 55.0' - 57.0'		Similar.			
50 S-13 60.0' - 62.0'		feet due to v Boring back	ations terminated by engineers at 60 water and gas bubbling from boring. filled with grout to block the water and iting the ground.		FRONT
5					VATERF CY DESI
					STON V SILIEN
5					KINGST RESI
					SHEET TITLE
TRATIFICATION LINES REP WATER LEVEL:	PRESENT APPROXIMATE BOUNDAR Water at 5-7 feet.	G	IFFORD ENGINEERING NICAL & GEOENVIRONMENTAL SERVICES		
DRILLER: SJE PPROVED BY:		000	865 Pearse Road Niskayuna, NY 12309-2909 Phone: (518) 382-2545		
					BORING LOGS
					PROJECT NO. SCALE AS N DATE 04/17, DRAWN BY
				FINAL DESIGN APRIL 17, 2020	checked by drawing no. MR-103.



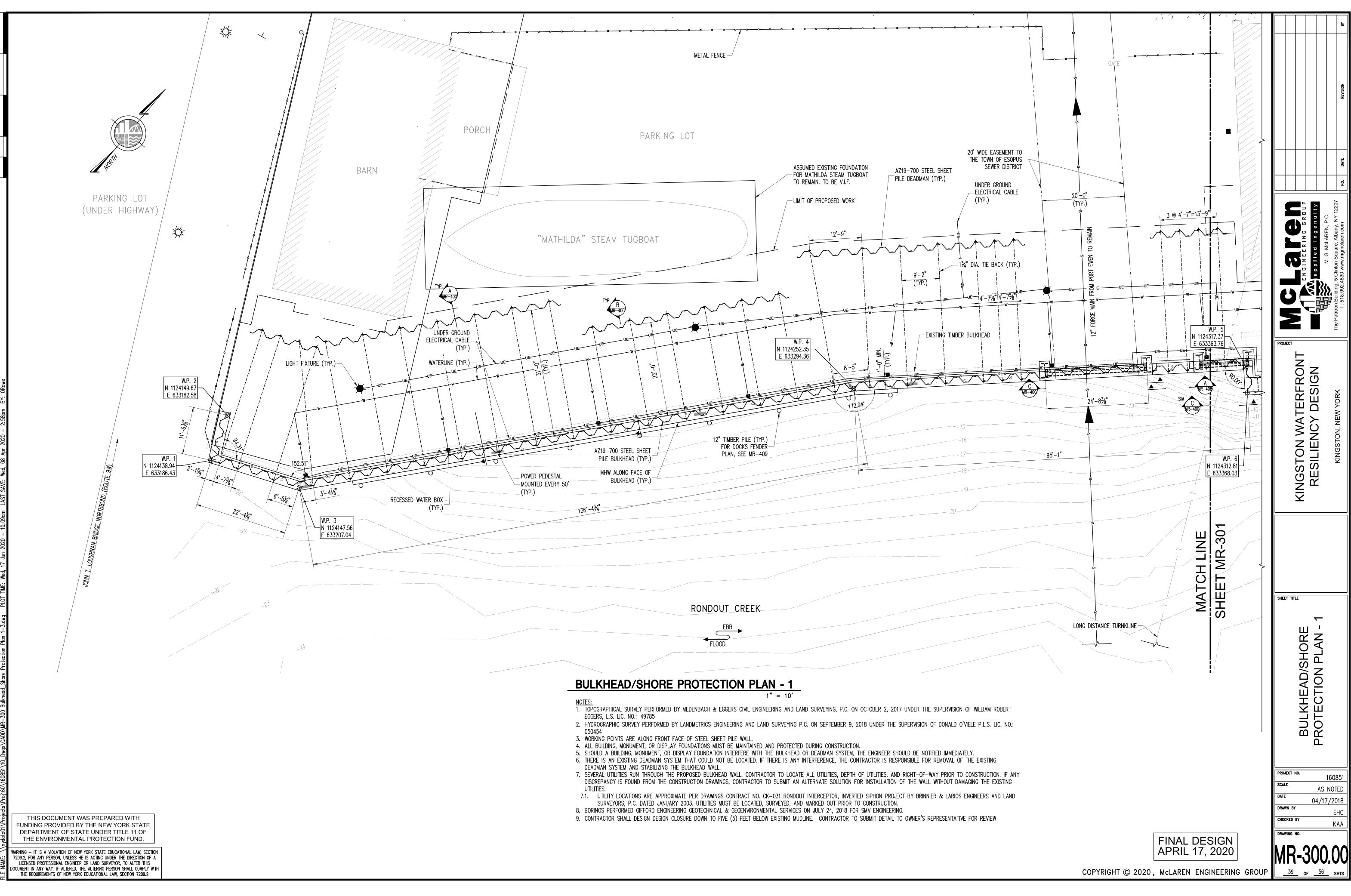


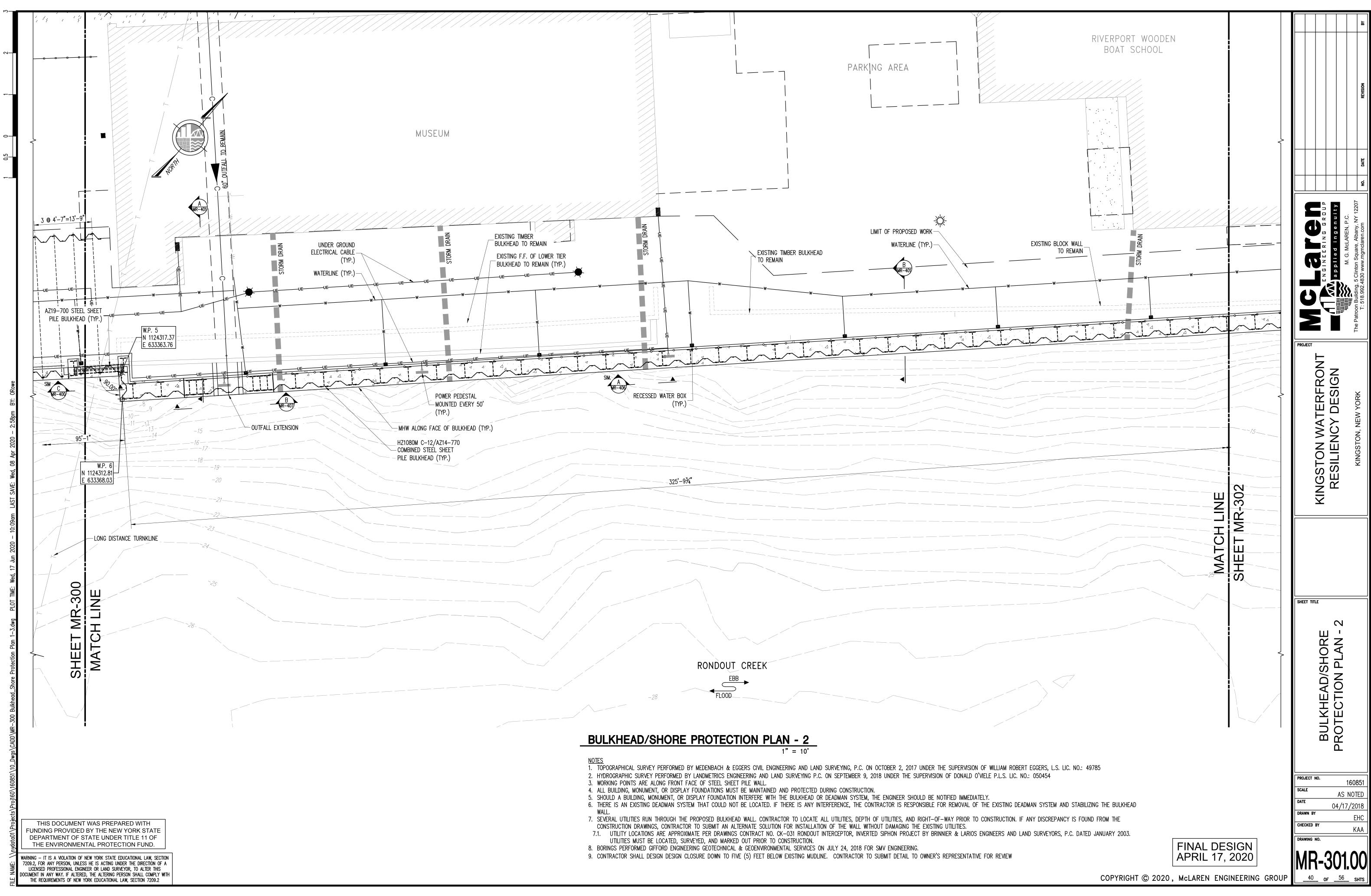


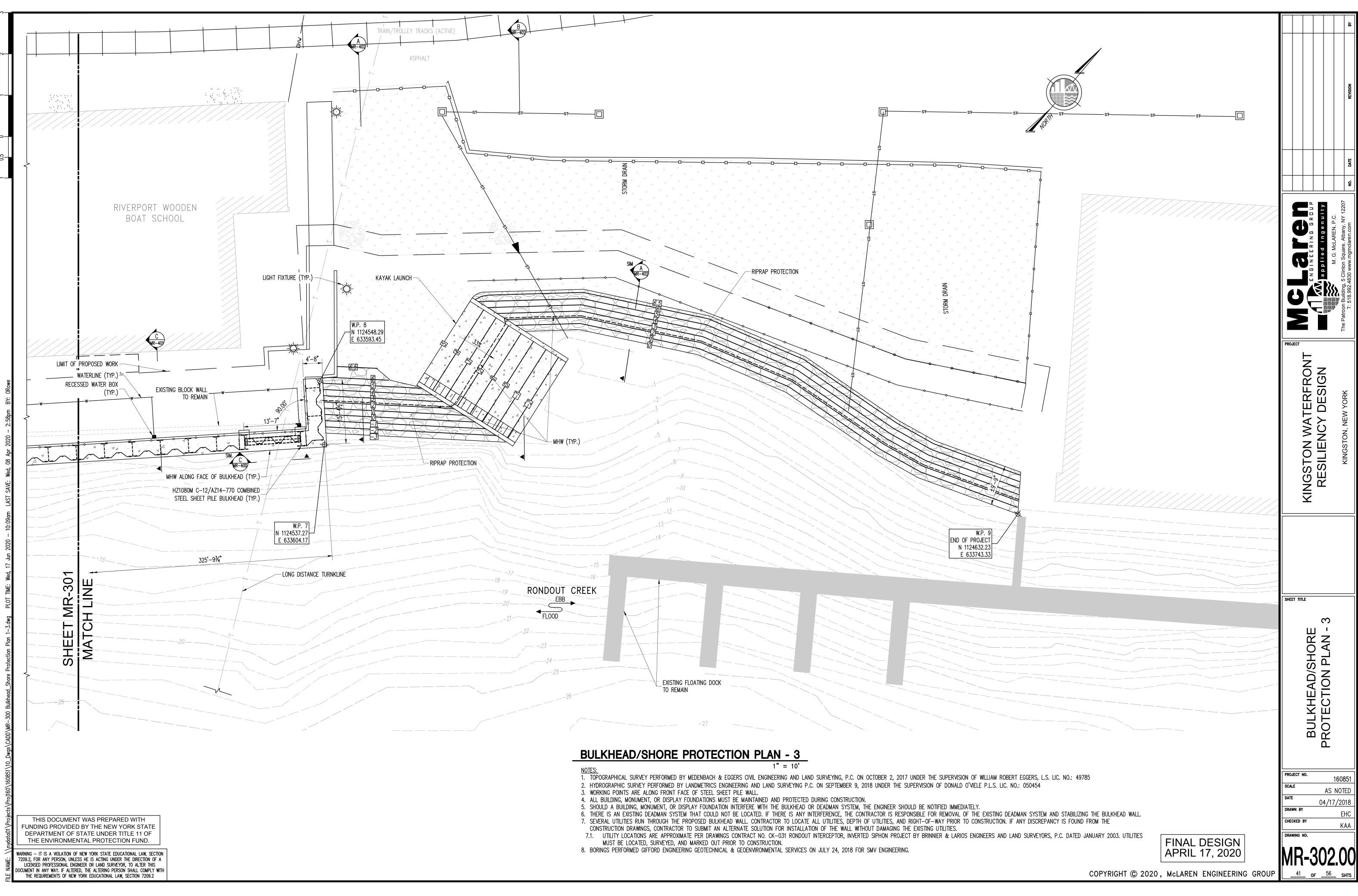


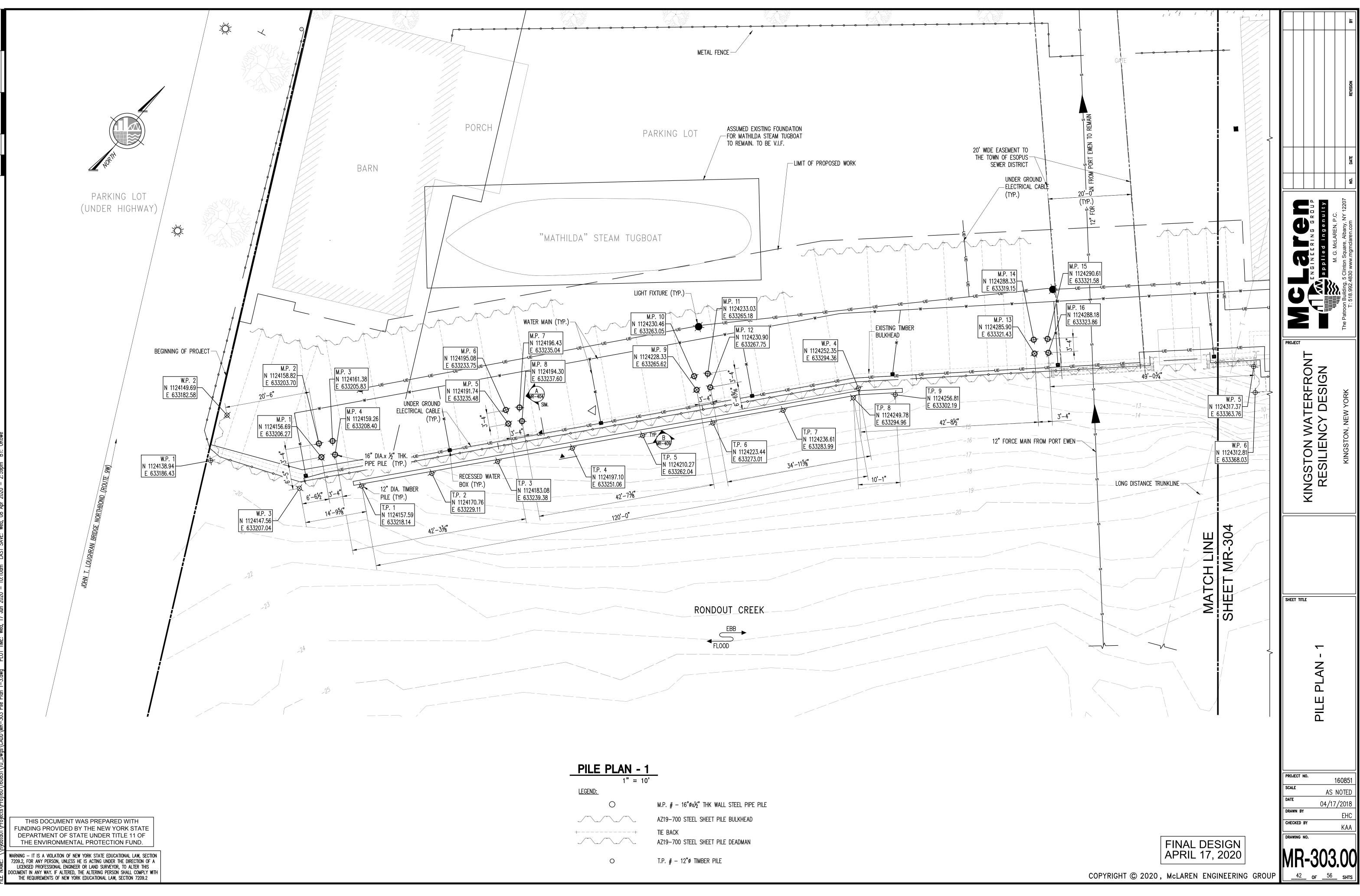


PAVER WALKWAY	TRAIN/TROLLEY TRACKS (ACTIVE) FERRY STREET	REVISION BY
		L P L P 2207 No. DATE
		The Patroon Building, 5 Clinton Square, Albany, NY 12207 T: 518.992.4830 www.mgmclaren.com
		KINGSTON WATERFRONT RESILIENCY DESIGN KINGSTON, NEW YORK
		SHEET TITLE C - STILL SHEET TITLE
COPYRIGHT © 2020	FINAL DESIGN APRIL 17, 2020 D, McLAREN ENGINEERING GROUP	AS NOTED DATE 04/17/2018 DRAWN BY EHC CHECKED BY KAA DRAWING NO. MRR-2004.000 38_ OF56_ SHTS

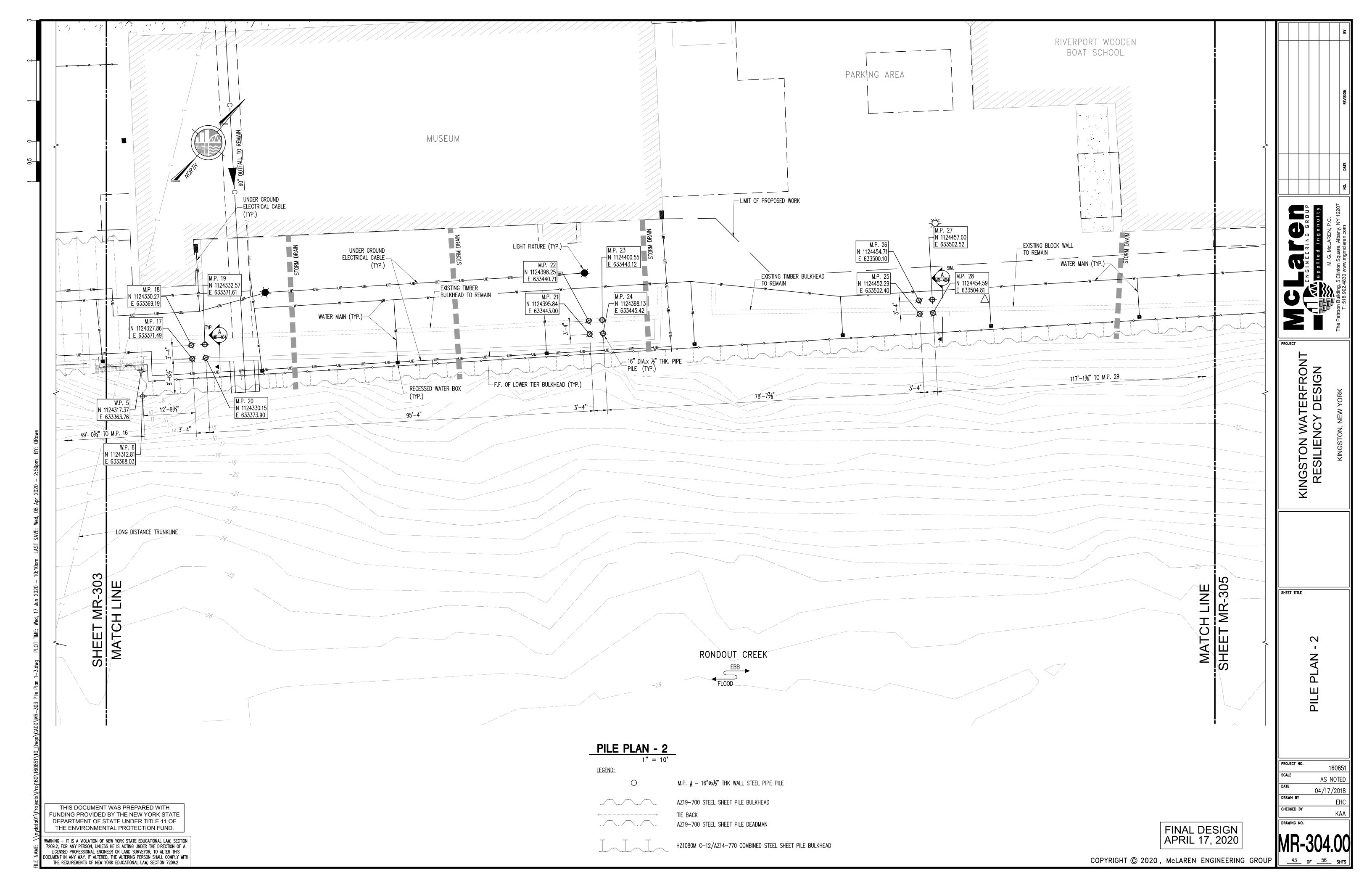


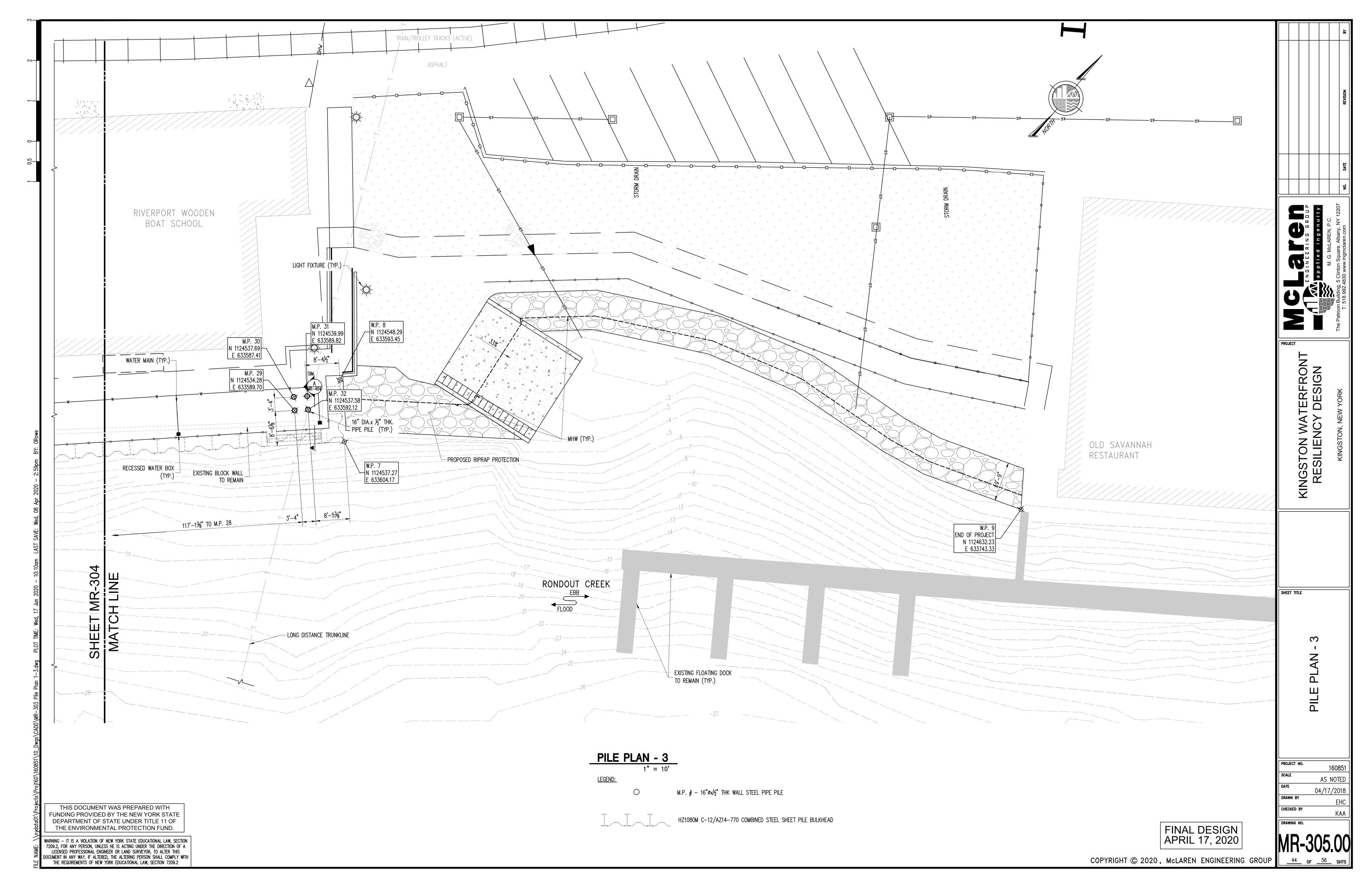


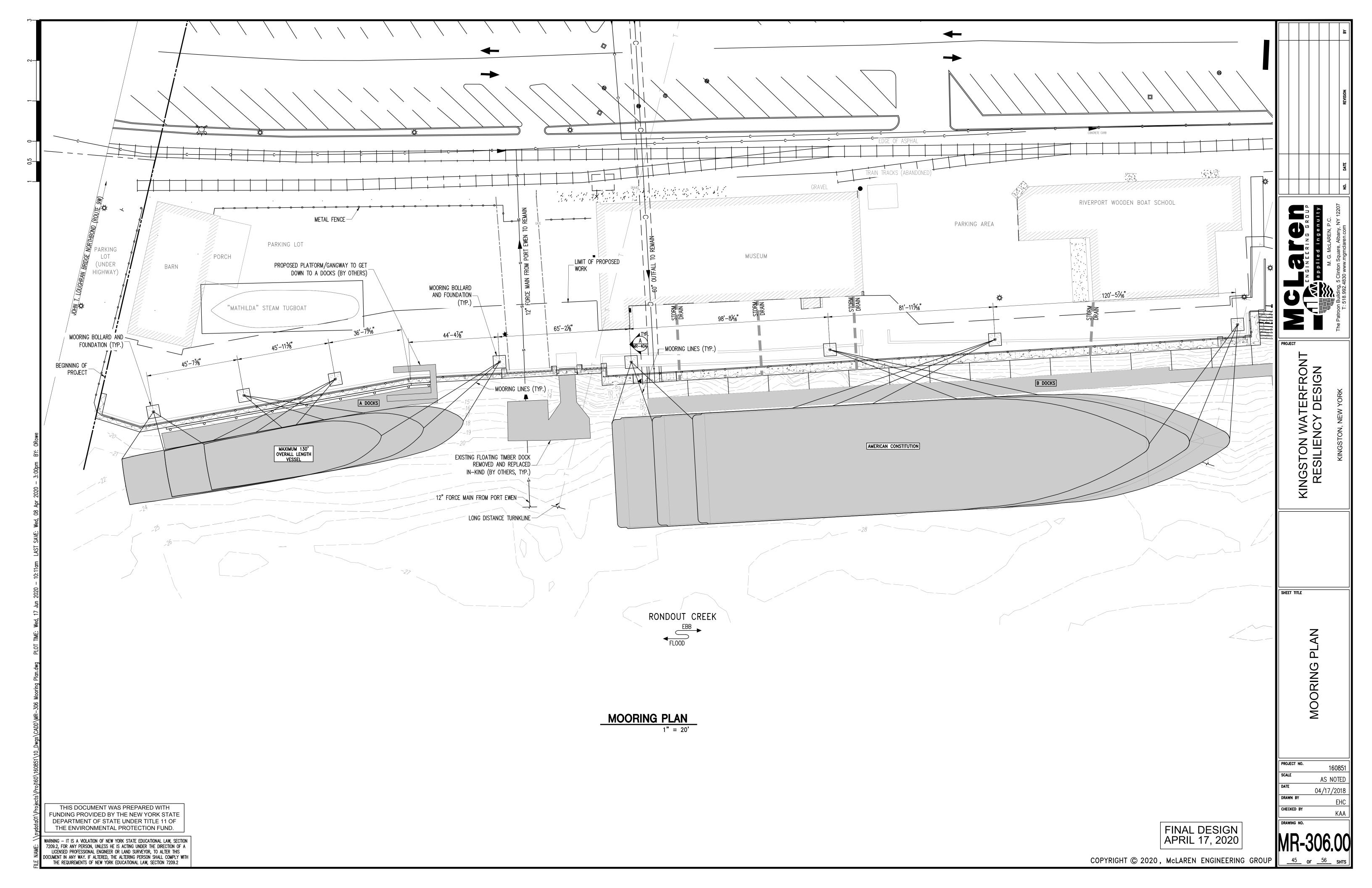


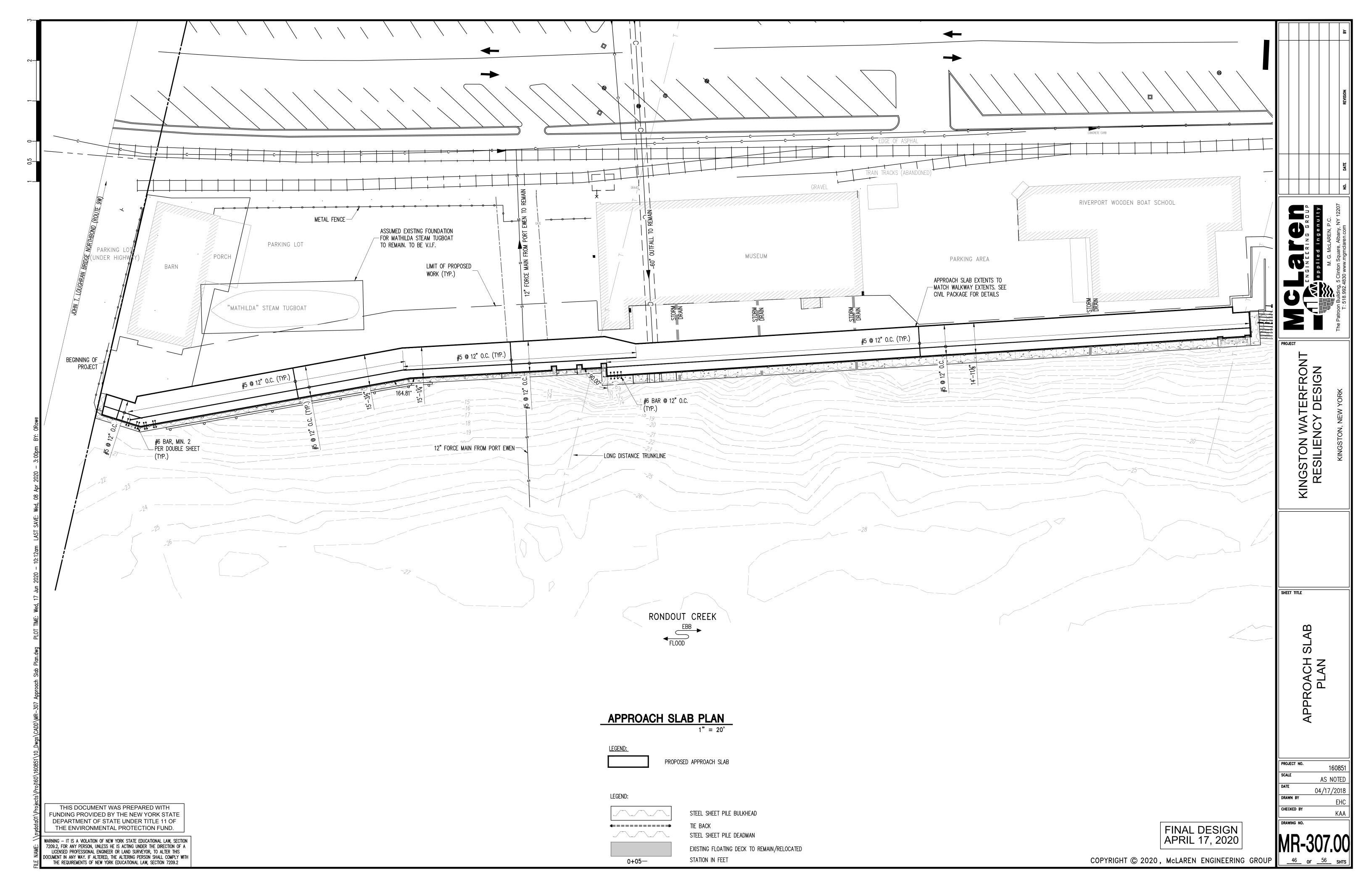


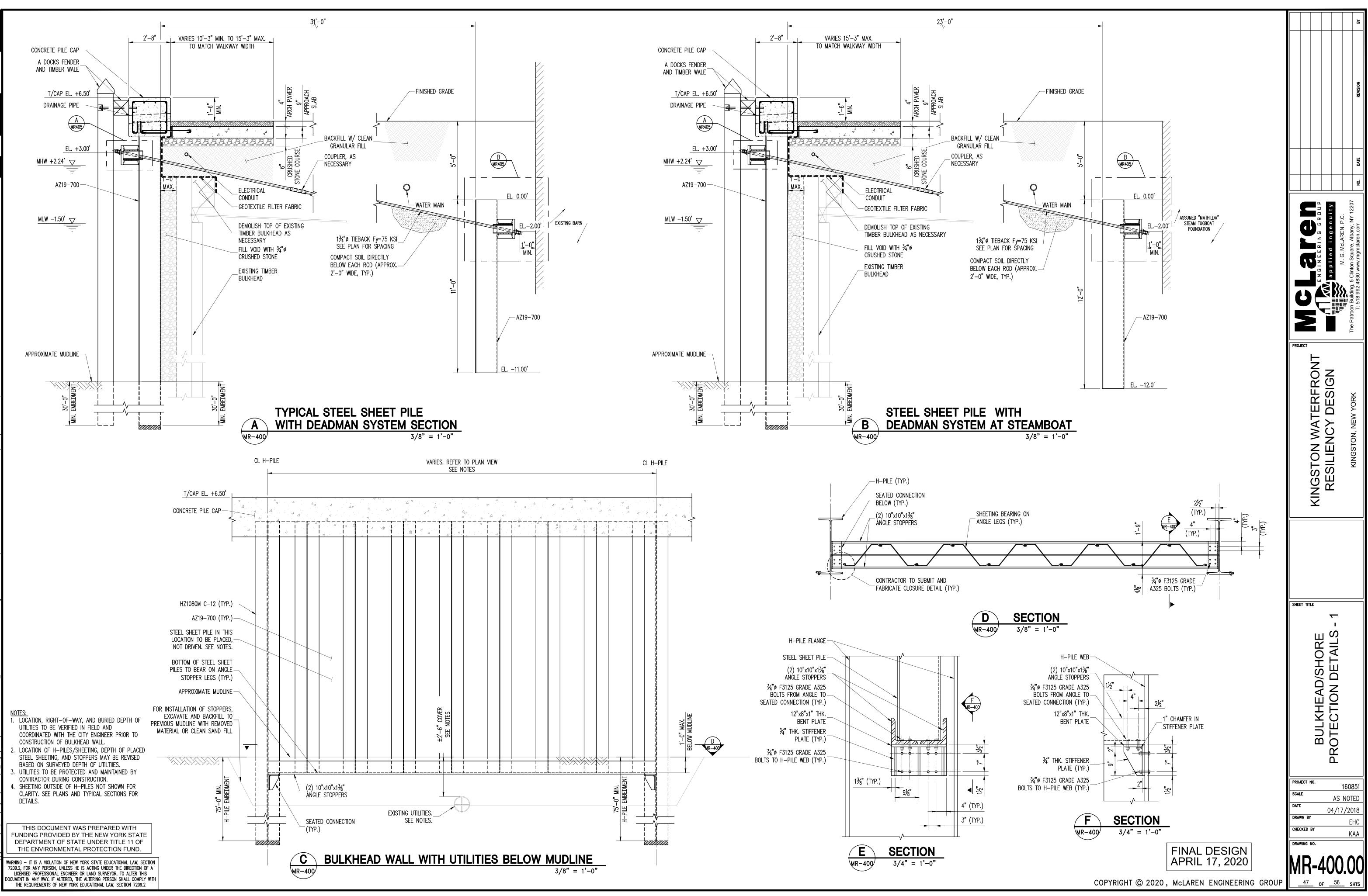
PILE PLAN - 1	
1" = 10'	
LEGEND:	
0	M.P. # - 16"øx½" THK WALL STEEL PIF
	AZ19–700 STEEL SHEET PILE BULKHEAD
++	TIE BACK AZ19—700 STEEL SHEET PILE DEADMAN
0	T.P. # - 12"ø TIMBER PILE



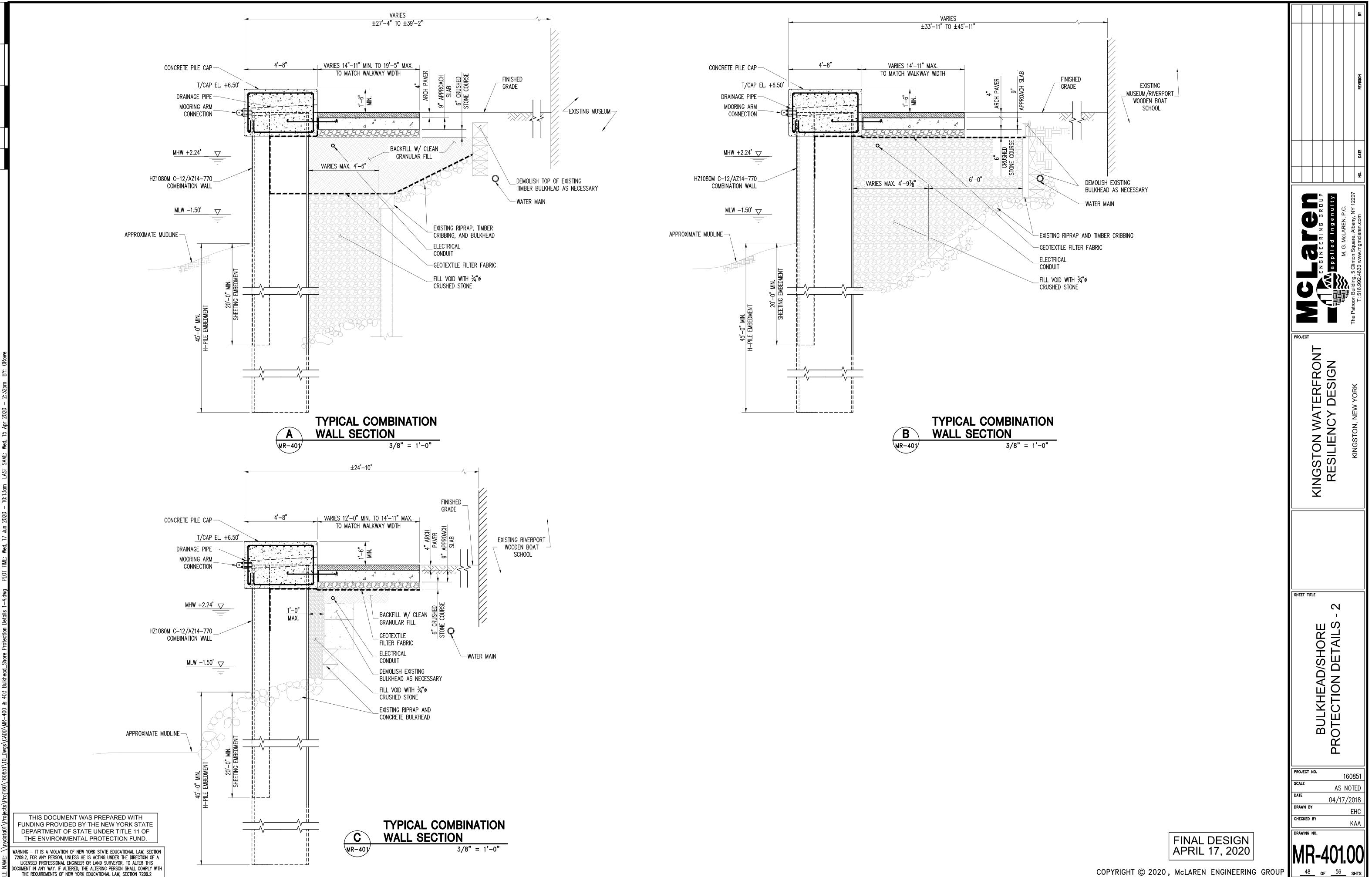


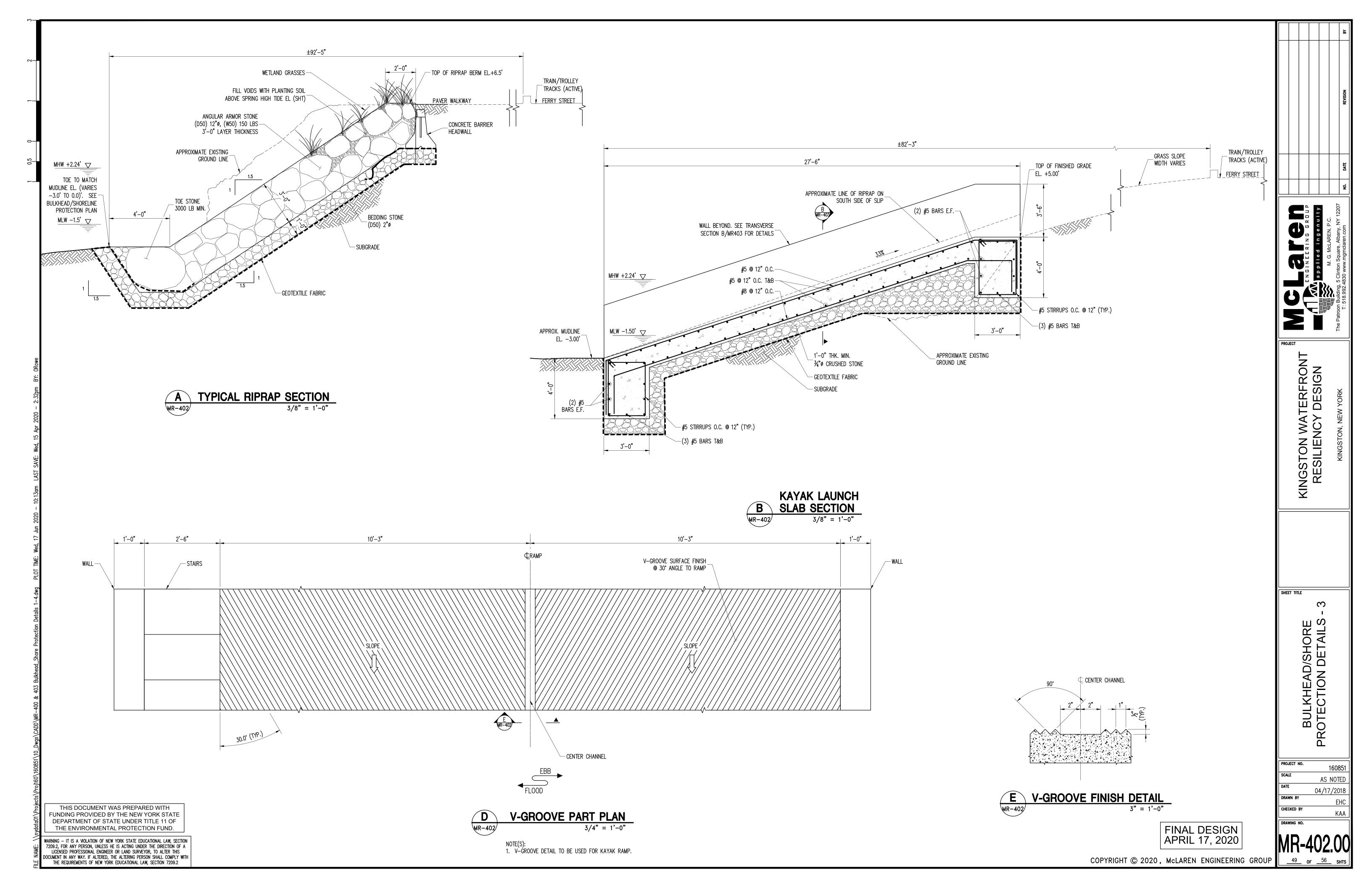


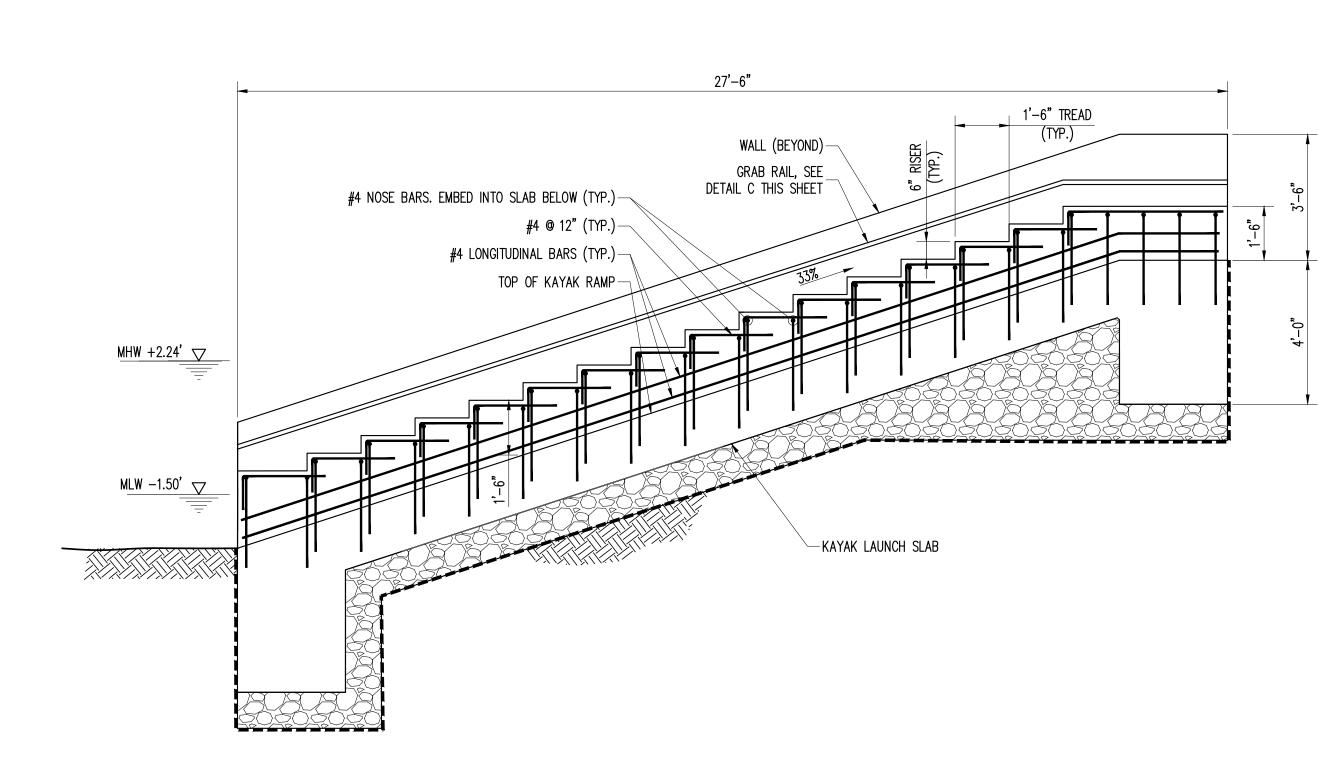




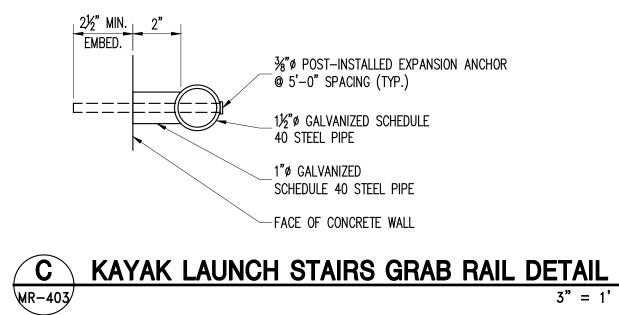
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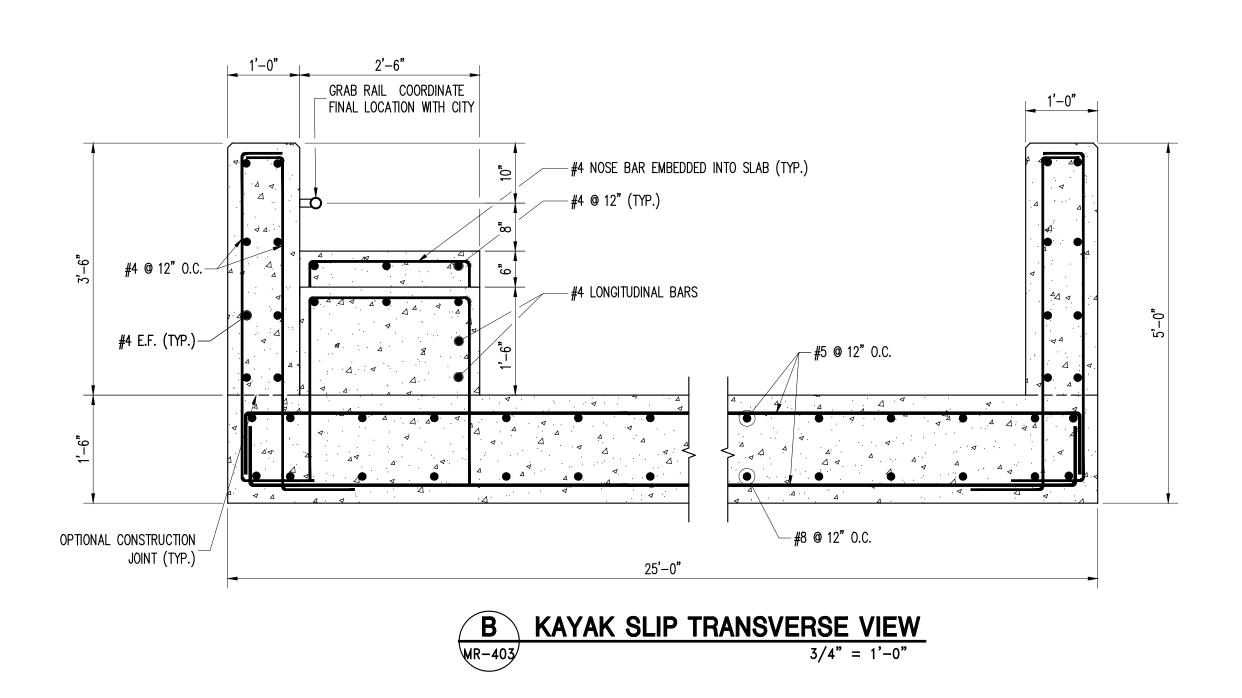




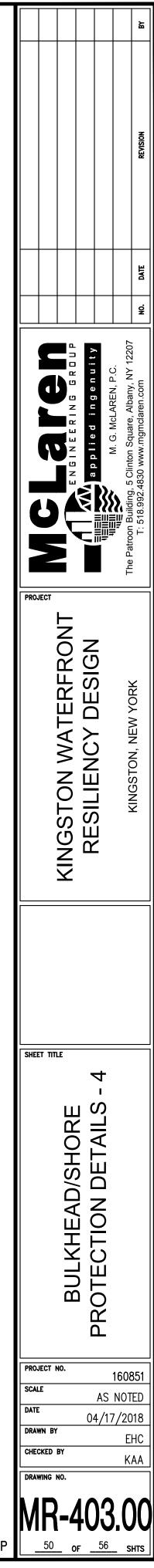


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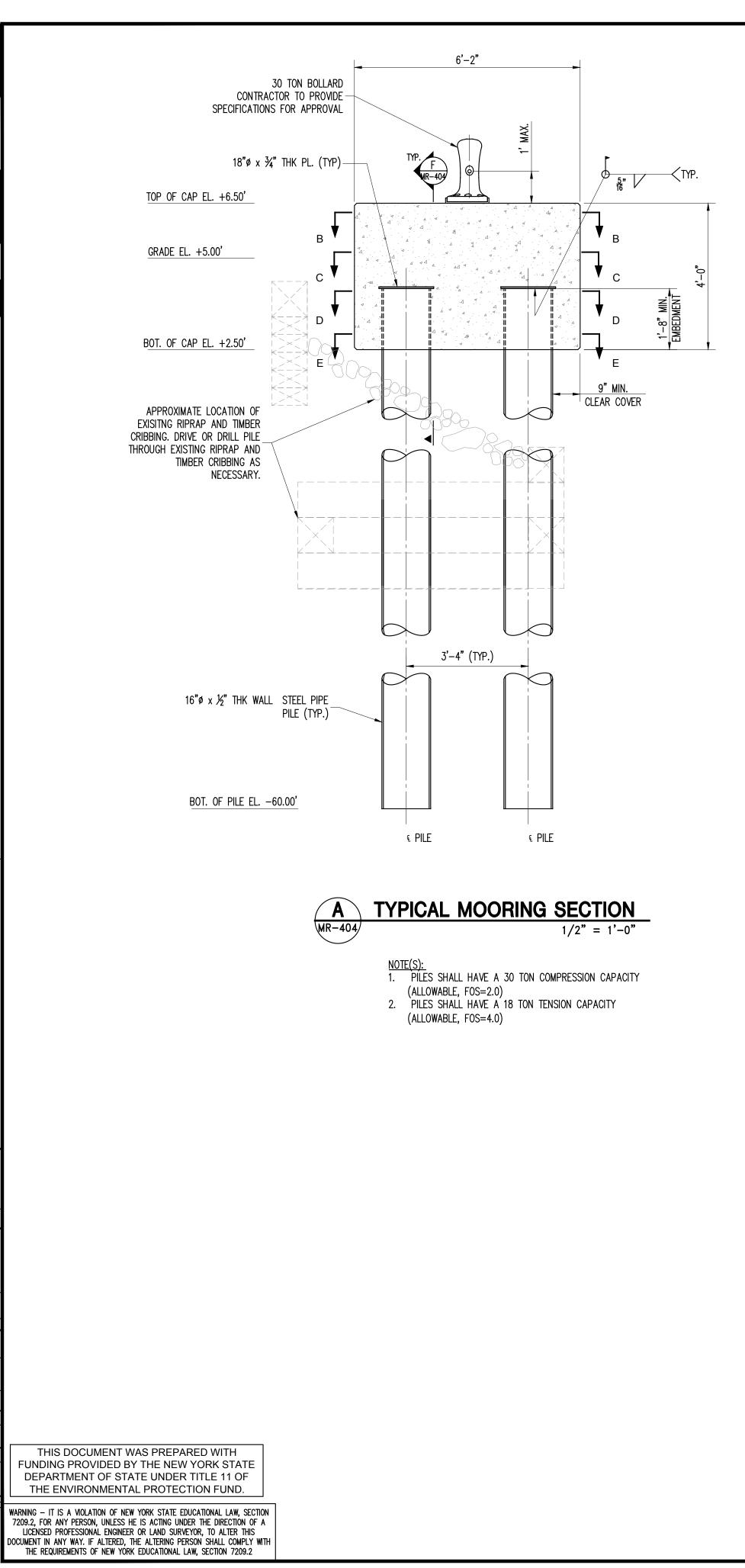


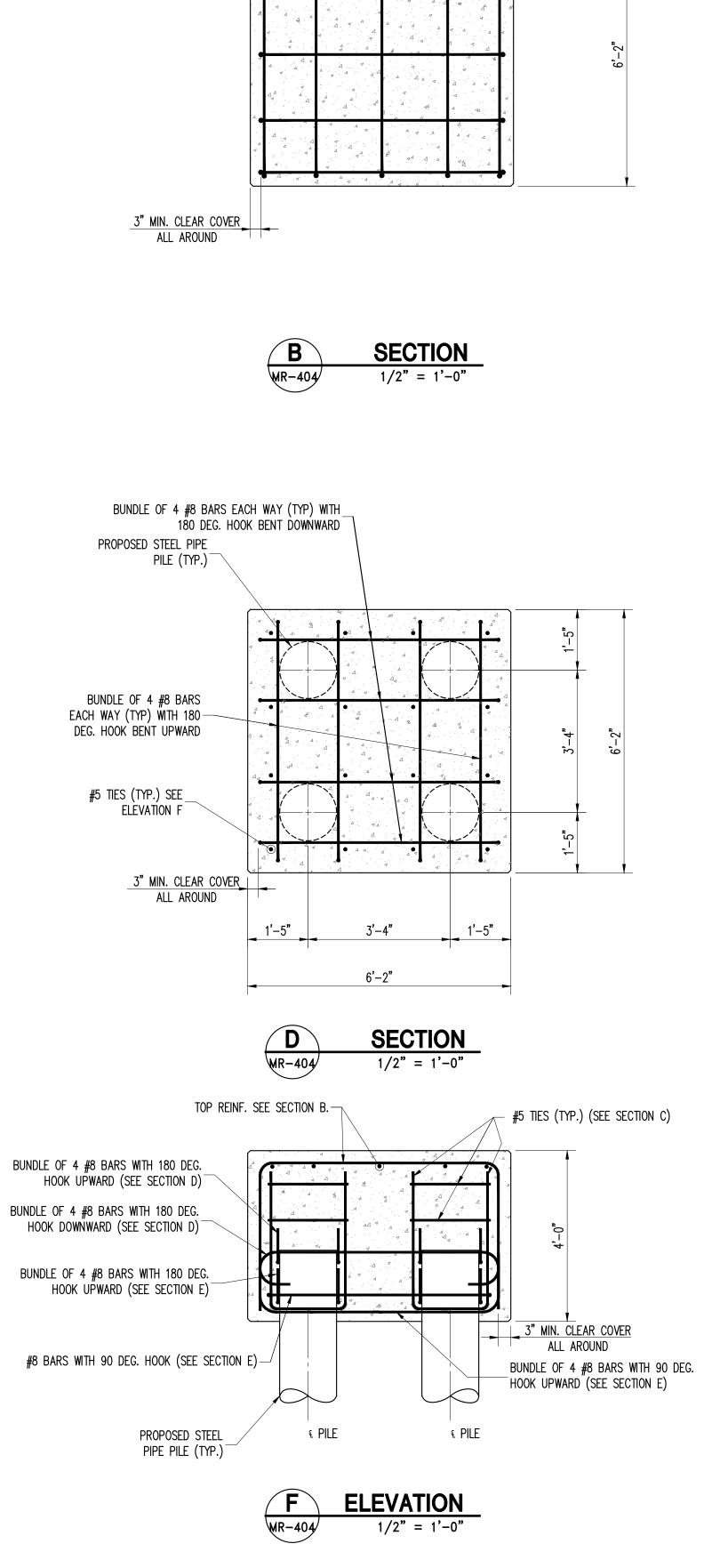
3" = 1'

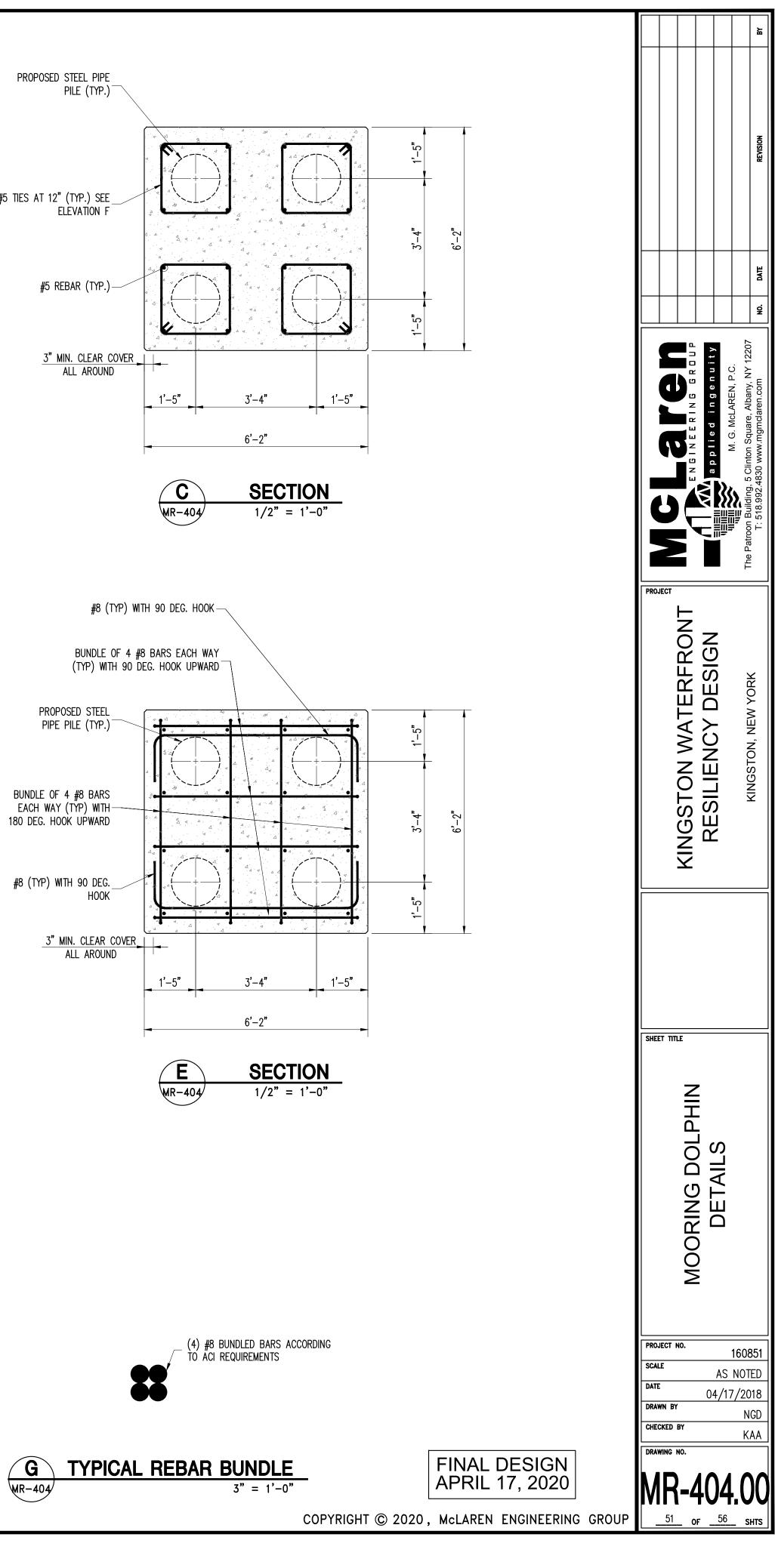


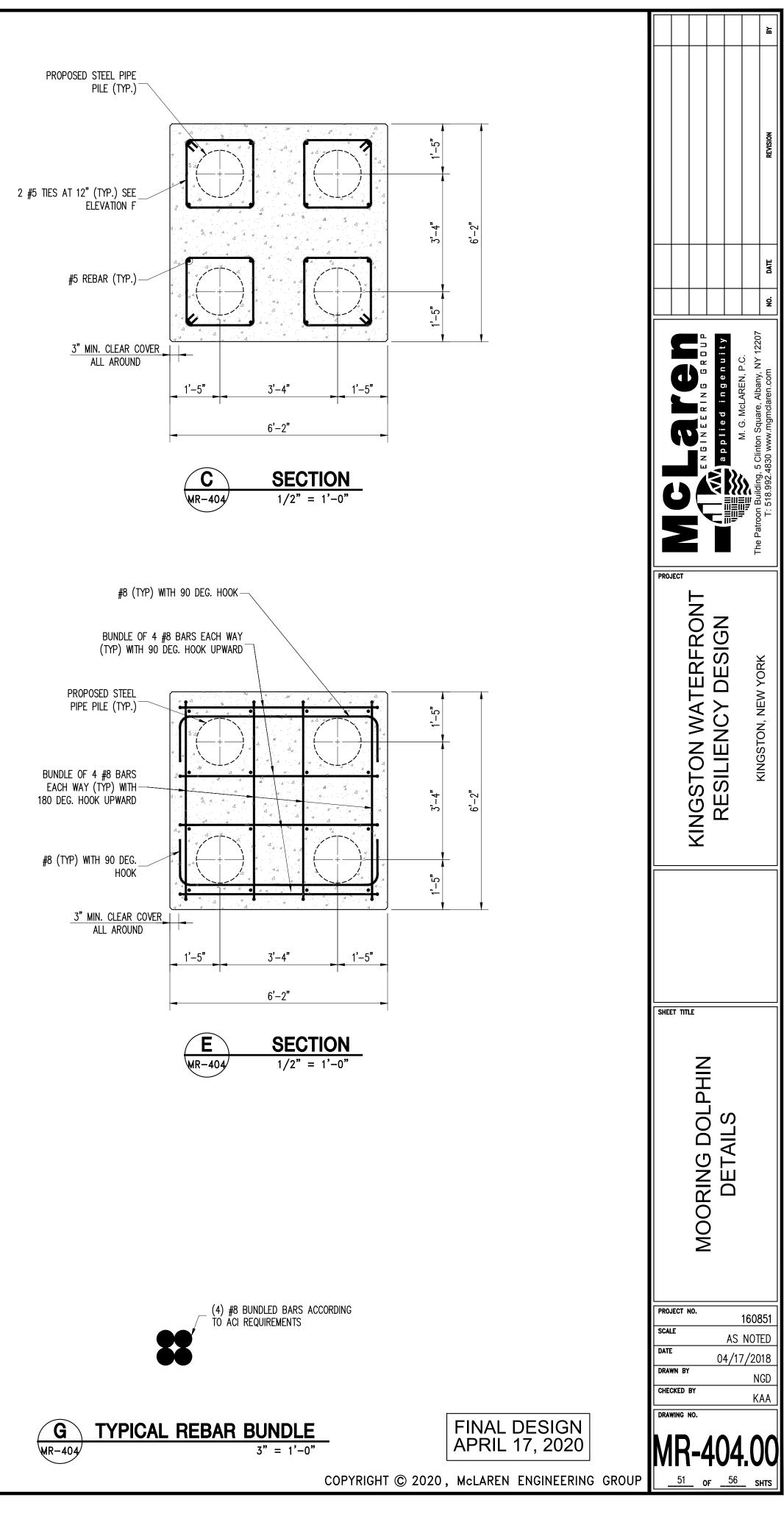


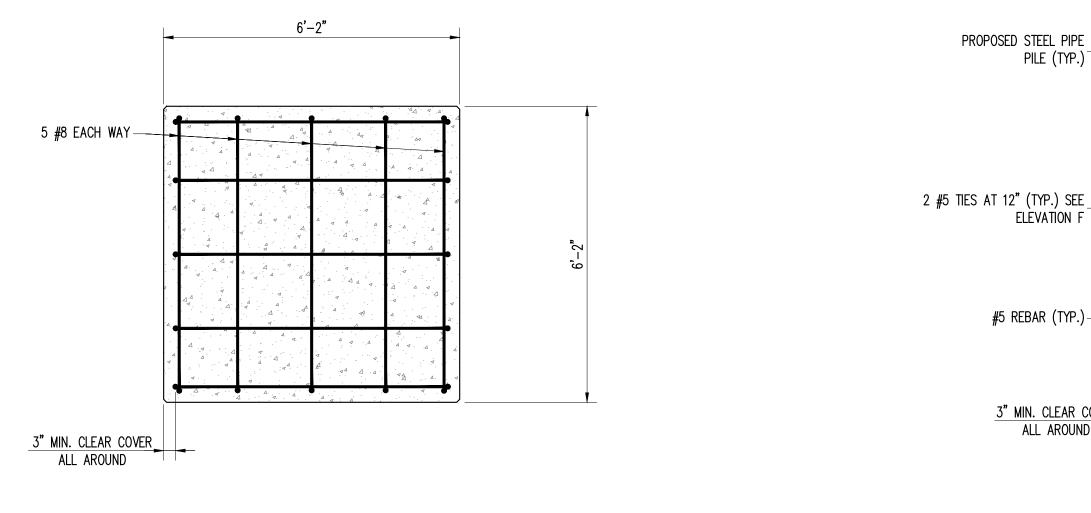
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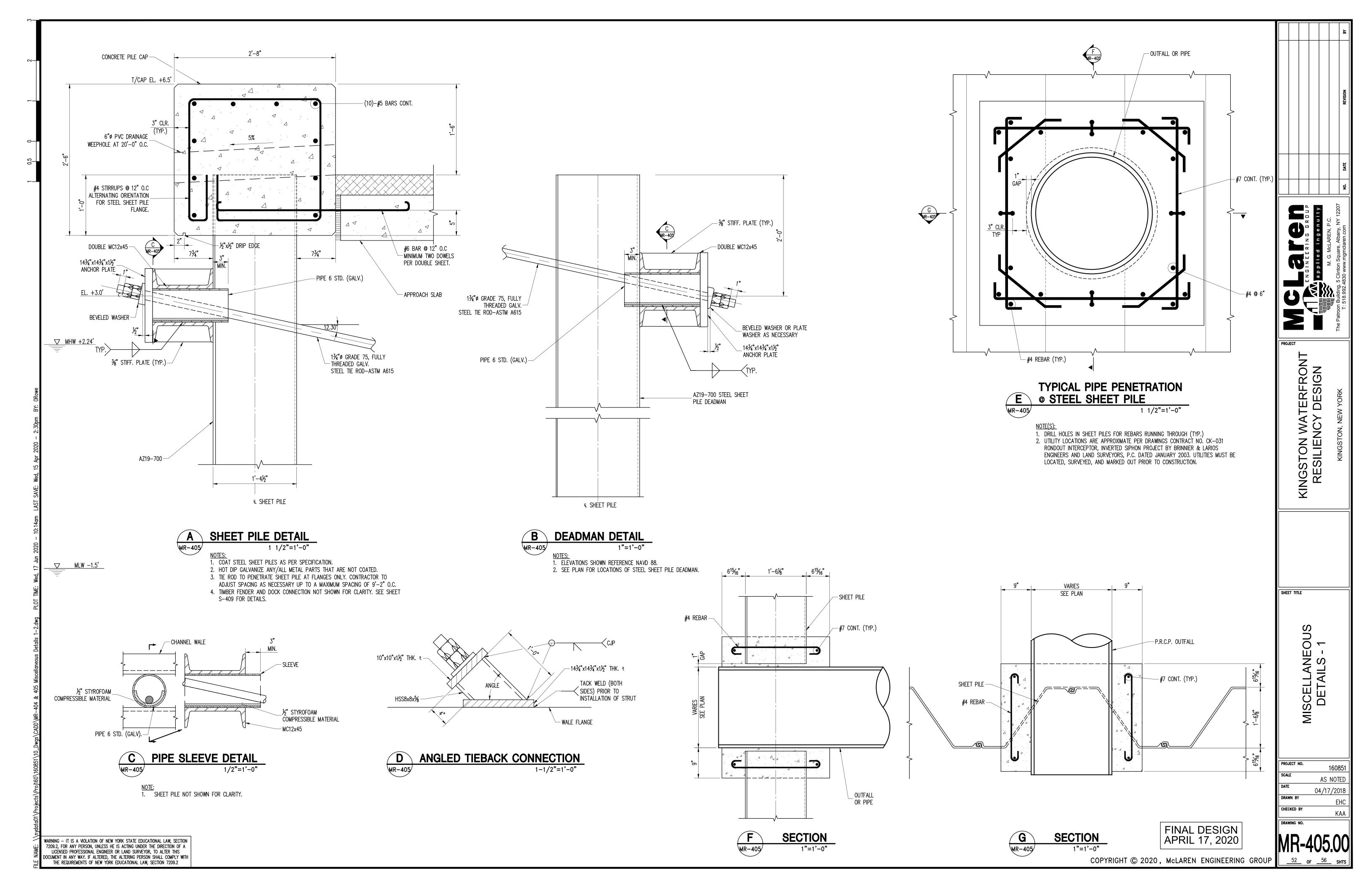


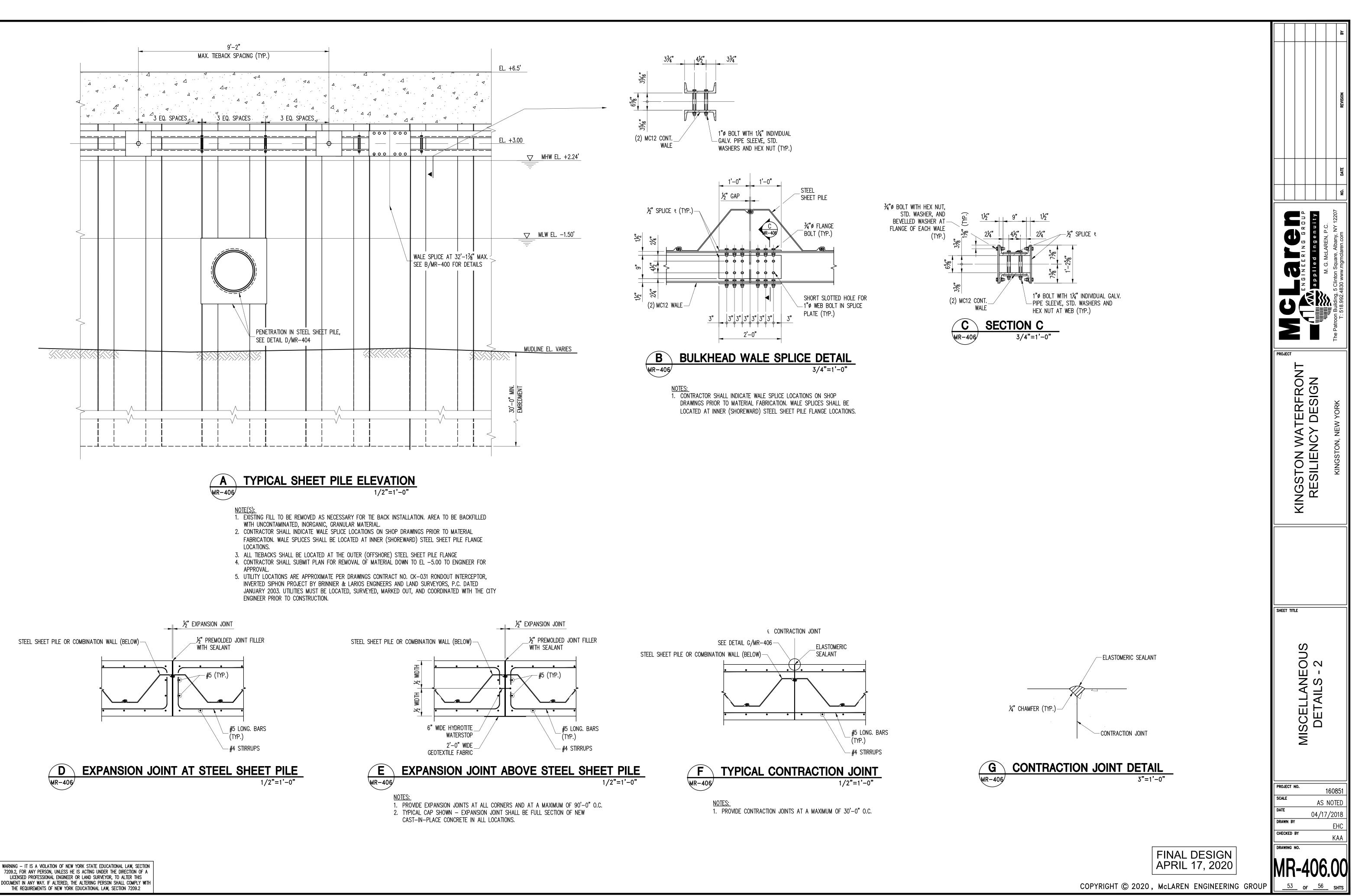


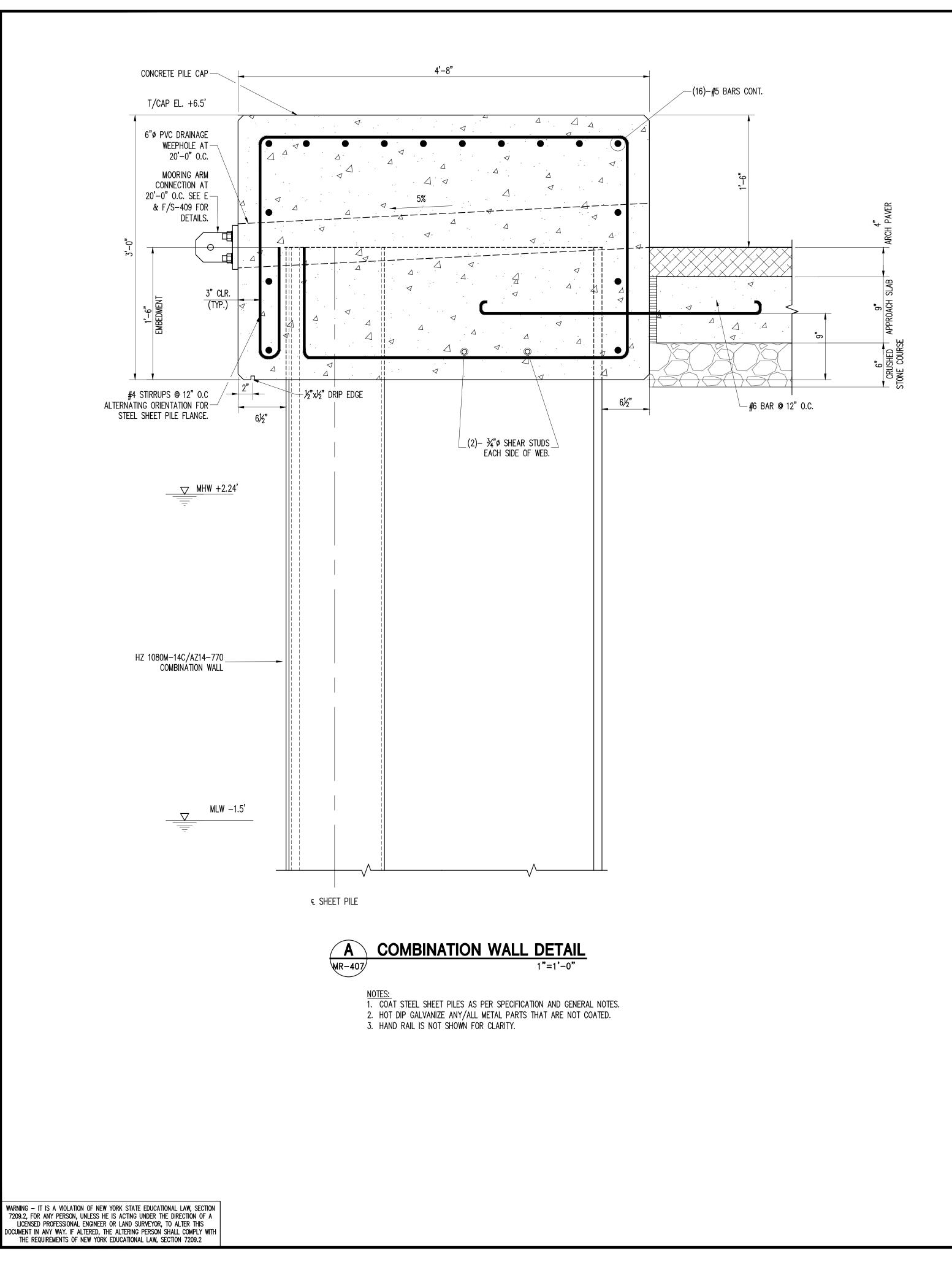


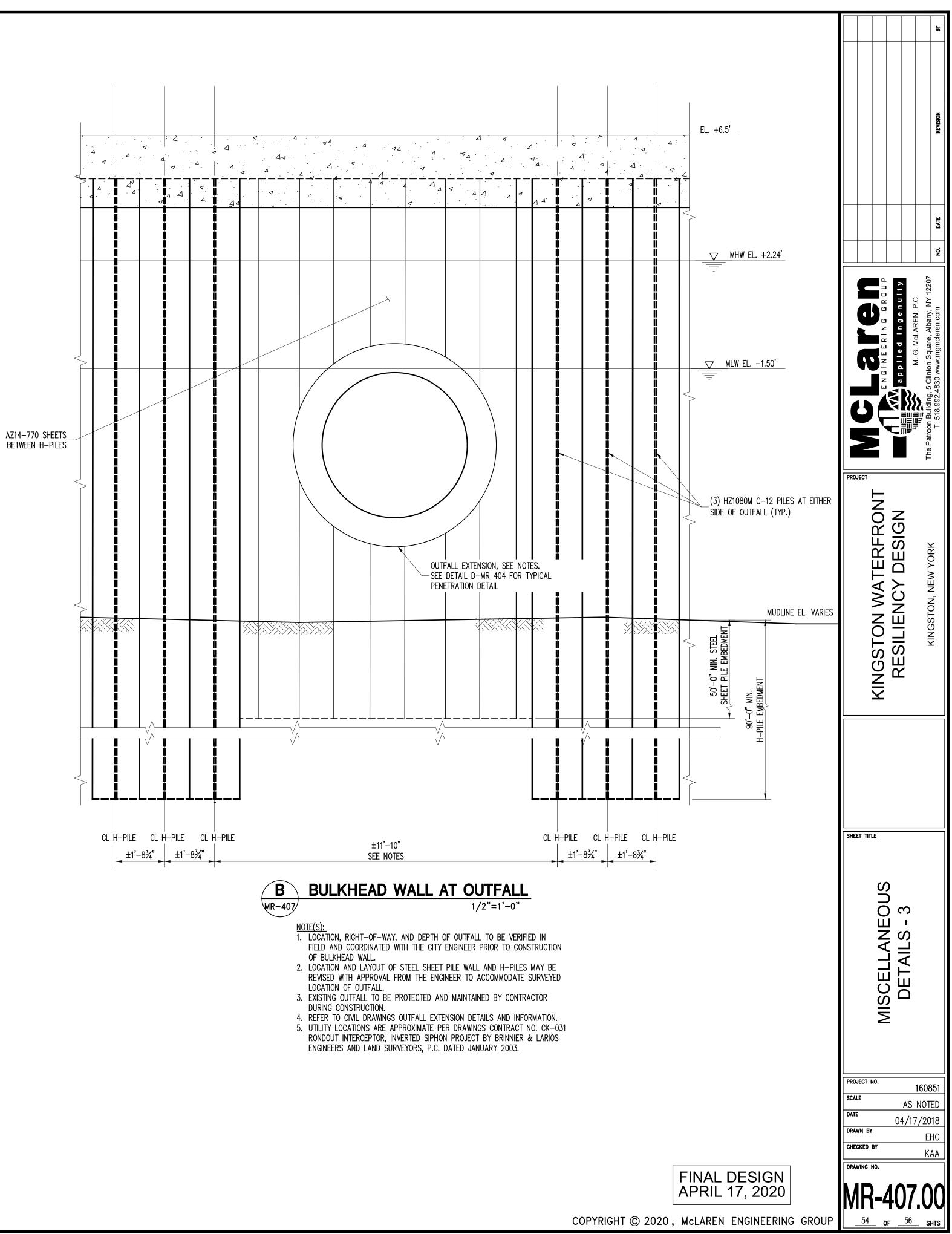


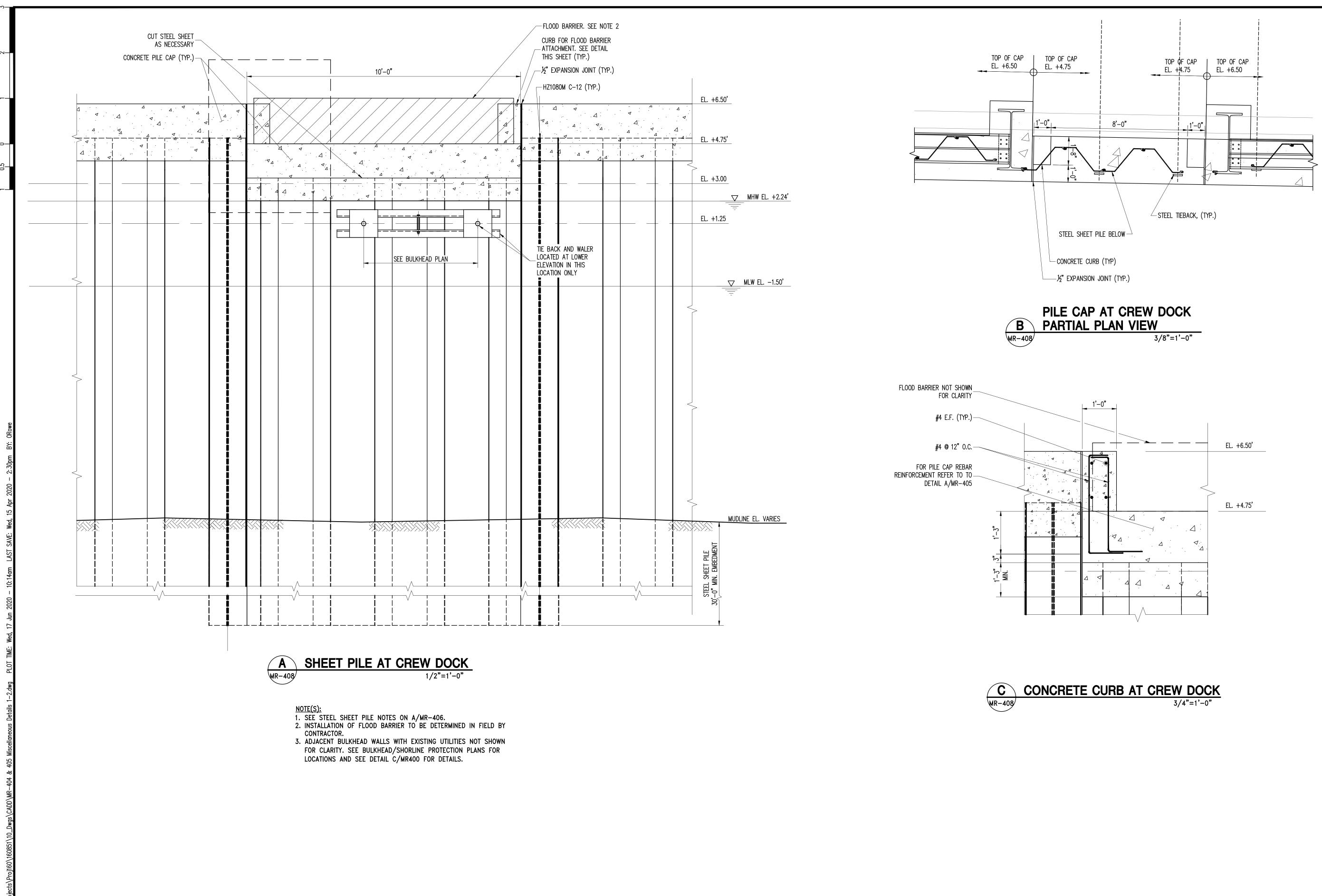












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	SCAL DATE DRAV	SHEE	PROJ				
VING N R		ΤΠ	_				
				ENGINEERING GROUP			
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)8		DE I AILS - 4					
				The Patroon Building 5 Clinton Square Albany NY 12207			
	ED		KINGS LON, NEW YORK	T: 518.992.4830 www.mgmdaren.com	NO. DATE	REVISION	BY

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