WAITE POND DAM REPAIRS CONSTRUCTION DRAWINGS

MA00987 · CHAPEL STREET · LEICESTER · MASSACHUSETTS APRIL, 2020

PREPARED FOR

TOWN OF LEICESTER

3 WASHBURN SQUARE LEICESTER, MA 01524



SHEET INDEX

SHEET No. SHEET TITLE

GI-001 COVER SHEET

GI-002 GENERAL NOTES & INFORMATION

RC-101 EXISTING CONDITIONS PLAN

CE-101 SITE PREPARATION, DEMOLITION & WATER CONTROL PLAN

CS-101 PROPOSED CONDITIONS PLAN

CG-101 FILL MATERIAL PLACEMENT PLAN

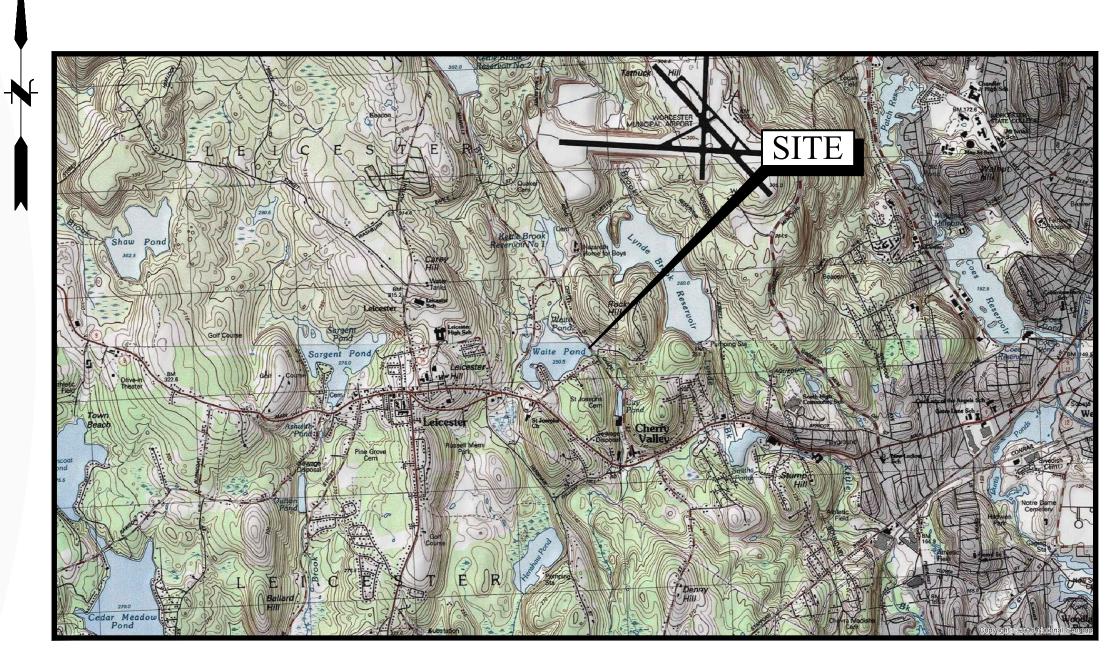
STR-01 STRUCTURAL REPAIR PLAN & DETAILS

STR-02 - STR-05 STRUCTURAL REPAIR DETAILS

RC-102 WETLAND IMPACT AREA PLAN

CD-501 EROSION & SEDIMENTATION CONTROL DETAILS

CD-502 CIVIL DETAILS



LOCATION MAP

SCALE: 1" = 2000'

THIS PROJECT IS FUNDED IN PART BY
THE MASSACHUSETTS EXECUTIVE
OFFICE OF ENERGY AND
ENVIRONMENTAL AFFAIRS
(WWW.MASS.GOV/GREEN)

PHILIP W. MORESCHI MA PE LICENSE No. 32051

PROJ. No.: 20081286.A70 DATE: APRIL 2020

GI-001

GENERAL NOTES

- 1. SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SHOWN ON THE DRAWINGS TO SCALE OR TO THEIR ACTUAL DIMENSION OR LOCATION. COORDINATE DETAIL SHEET DIMENSIONS, MANUFACTURERS' LITERATURE, SHOP DRAWINGS AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.
- 2. DO NOT RELY SOLELY ON ELECTRONIC VERSIONS OF DRAWINGS, SPECIFICATIONS, AND DATA FILES THAT ARE PROVIDED BY THE ENGINEER. FIELD VERIFY LOCATION OF PROJECT FEATURES.
- 3. PERFORM NECESSARY CONSTRUCTION NOTIFICATIONS, APPLY FOR AND OBTAIN NECESSARY PERMITS, PAY FEES, AND POST BONDS ASSOCIATED WITH THE WORK AS REQUIRED BY THE CONTRACT DOCUMENTS.
- 4. BASE PLAN: THE TOPOGRAPHY AND PHYSICAL FEATURES ARE BASED ON FIELD SURVEY PERFORMED BY SHERMAN & FRYDRYK LAND SURVEYING & ENGINEERING (PALMER, MA) ON 09/26/13.
- 5. TOPOGRAPHIC ELEVATIONS ARE BASED ON NAVD88 DATUM.
- 6. WETLANDS WERE DELINEATED BY FUSS & O'NEILL ON 09/17/13.
- 7. DEVIATIONS OR CHANGES FROM THESE PLANS WILL NOT BE ALLOWED UNLESS APPROVED BY THE ENGINEER AND DAM OWNER.
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING, WITH MATCHING MATERIALS, ANY PAVEMENT, WALKS, CURBS, ETC., THAT MUST BE CUT OR THAT ARE DAMAGED DURING CONSTRUCTION.
- 9. AN APPROVED SET OF PLANS AND ALL APPLICABLE PERMITS MUST BE AVAILABLE AT THE SITE THROUGH THE ENTIRE PERIOD OF CONSTRUCTION WHEN WORK IS ACTIVELY OCCURRING.
- 10. CONTRACTOR AGREES THAT HE/SHE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE CONTRACT OWNER, PROPERTY OWNER (TOWN OF LEICESTER) AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL AND ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM "THE SOLE NEGLIGENCE OF THE CONTRACT OWNER, PROPERTY OWNER OR THE ENGINEER."
- 11. PHOTOGRAPHS AND SKETCHES (AS NECESSARY) MUST BE TAKEN OF ADJOINING CONSTRUCTION AND SITE IMPROVEMENTS WITHIN 200 FEET OF EXCAVATION LIMITS ASSOCIATED WITH THE DAM IMPROVEMENTS PRIOR TO EXCAVATION AND THE INSTALLATION OF EXCAVATION SUPPORT SYSTEMS. SUCH DOCUMENTATION SHALL ILLUSTRATE EXISTING SURFACES THAT MAY BE MISCONSTRUED AS DAMAGE CAUSED BY THE PROJECT CONSTRUCTION OPERATIONS.
- 12. ACCESS, STAGING, AND TEMPORARY SEDIMENT STOCKPILING AREAS NOT INDICATED ON THE PLANS SHALL BE DELINEATED BY THE CONTRACTOR FOR APPROVAL PRIOR TO PROJECT INITIATION.
- 13. VEHICLE STORAGE AND FUELING SHALL BE PERFORMED AT LEAST 50' OUTSIDE OF THE POND AND DOWNSTREAM CHANNEL AND ONLY IN DESIGNATED AREAS SUCH THAT THERE WILL BE NO CONTAMINATION OF SOIL, GROUNDWATER, OR SURFACE WATER FROM SPILLS OR LEAKS.
- 14. WATERLINE LOCATION WAS OBTAINED AT THE TIME OF THE TOPOGRAPHIC SURVEY AND SUPPLEMENTAL FIELD MEASUREMENTS BY FUSS & O'NEILL. THE WATER LEVEL IS ANTICIPATED TO VARY DEPENDING ON SEASONAL CONDITIONS AND PRECIPITATION.

WATER CONTROL NOTES

- 1. THE TEMPORARY COFFERDAM SYSTEM MUST BE MAINTAINED TO ALLOW A DEWATERED CONDITION (NO SEDIMENT PLUME) IN THE WATERCOURSE. SOIL DISTURBANCE WITHIN THE WATERCOURSE MUST TEMPORARILY CEASE IN THE EVENT OF ANY ABNORMALLY HIGH STORMWATER RUNOFF EVEN IF A DRY WORKING CONDITION CANNOT BE MAINTAINED WITH THE USE OF WATER PUMPS OR OTHER MEANS.
- 2. THE CONTRACTOR SHALL PROTECT CONSTRUCTED WORK AND ADJACENT PROPERTIES POTENTIALLY AFFECTED BY FLOW DIVERSIONS RESULTING FROM COFFERDAMS AND BYPASS CONVEYANCES DURING FLOOD EVENTS.
- 3. TEMPORARY COFFERDAMS AND WATER DIVERSION STRUCTURE(S) ARE TO BE CONSTRUCTED OF MATERIALS THAT CAN BE COMPLETELY REMOVED FROM WATERCOURSE UPON COMPLETION OF CONSTRUCTION. REMOVAL OF THE TEMPORARY COFFERDAMS SHALL BE CONDUCTED IN A CONTROLLED MANNER.
- 4. THE CONTRACTOR SHALL SUBMIT A WATER CONTROL PLAN FOR REVIEW AND APPROVAL BY THE ENGINEER A MINIMUM OF TWO WEEKS PRIOR TO THE START OF CONSTRUCTION.

WORK RESTRICTIONS & REGULATORY REQUIREMENTS

DESCRIPTION

- 1. DO NOT CLOSE OR OBSTRUCT ROADWAYS, SIDEWALKS, FIRE HYDRANTS, AND UTILITIES WITHOUT APPROPRIATE PERMITS.
- 2. WITHIN LOCAL RIGHTS-OF-WAY, PERFORM THE WORK IN ACCORDANCE WITH LOCAL MUNICIPAL STANDARDS.
- 3. PROVIDE TRAFFIC SIGNAGE AND PAVEMENT MARKINGS IN CONFORMANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- 4. BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. PERFORM CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.
- 5. DISPOSE OF DEMOLITION DEBRIS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE

DESIGNER REVIEWE

AND LOCAL REGULATIONS, ORDINANCES AND STATUTES.

EROSION AND SEDIMENT CONTROL NOTES

- 1. INSTALL EROSION CONTROL MEASURES PRIOR TO STARTING ANY WORK ON THE
- 2. IMPLEMENT ALL NECESSARY MEASURES REQUIRED TO CONTROL STORMWATER RUNOFF, DUST, SEDIMENT, AND DEBRIS FROM EXITING THE SITE. PERFORM CORRECTIVE ACTION AS NEEDED FOR EROSION CLEANUP AND REPAIRS TO OFF SITE AREAS, IF ANY, AT NO COST TO OWNER.
- 3. INSPECT AND MAINTAIN EROSION CONTROL MEASURES PER THE SCHEDULE IN THE EROSION AND SEDIMENT CONTROL DRAWINGS. DISPOSE OF SEDIMENT IN AN UPLAND AREA. DO NOT ENCUMBER OTHER DRAINAGE STRUCTURES AND PROTECTED AREAS.
- 4. PERFORM CONSTRUCTION SEQUENCING IN SUCH A MANNER TO CONTROL EROSION AND TO MINIMIZE THE TIME THAT EARTH MATERIALS ARE EXPOSED BEFORE THEY ARE COVERED, SEEDED, OR OTHERWISE STABILIZED.
- 5. UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER, REMOVE AND DISPOSE OF TEMPORARY EROSION CONTROL MEASURES. CLEAN SEDIMENT AND DEBRIS FROM TEMPORARY MEASURES AND FROM PERMANENT STORM DRAIN AND SANITARY SEWER SYSTEMS.

DEMOLITION & CONSTRUCTION LAYOUT NOTES

- 1. PROVIDE PROPER TRANSITIONS BETWEEN EXISTING AND PROPOSED SITE IMPROVEMENTS.
- 2. PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION, FIELD VERIFY PROPOSED UTILITY ROUTES AND IDENTIFY ANY INTERFERENCES OR OBSTRUCTIONS WITH EXISTING UTILITIES OR PUBLIC RIGHTS-OF-WAY.
- 3. THE CONTRACTOR IS RESPONSIBLE TO VERIFY EXISTING CONDITIONS PRIOR TO DEMOLITION. IMMEDIATELY INFORM THE ENGINEER IN WRITING IF EXISTING UTILITY CONDITIONS CONFLICT OR DIFFER FROM THAT INDICATED AND/OR IF THE WORK

EARTHWORK NOTES

- 1. NOTIFY UTILITY LOCATOR SERVICE AT LEAST 72 HOURS BEFORE STARTING EXCAVATION. CALL MA "DIG SAFE" AT 1-888-344-7233
- 2. STOP WORK IN THE VICINITY OF SUSPECTED CONTAMINATED SOIL, GROUNDWATER OR OTHER MEDIA. IMMEDIATELY NOTIFY THE OWNER SO THAT APPROPRIATE TESTING AND SUBSEQUENT ACTION CAN BE TAKEN. RESUME WORK IN THE IMMEDIATE VICINITY ONLY UPON DIRECTION BY THE OWNER.

<u>UTILITY NOTES</u>

- THE TYPE, SIZE AND LOCATION OF DEPICTED UNDERGROUND UTILITIES ARE APPROXIMATE REPRESENTATIONS OF INFORMATION OBTAINED FROM FIELD LOCATIONS OF VISIBLE FEATURES, EXISTING MAPS AND PLANS OF RECORD, UTILITY MAPPING, AND OTHER SOURCES OF INFORMATION OBTAINED BY THE ENGINEER. ASSUME NO GUARANTEE AS TO THE COMPLETENESS, SERVICEABILITY, EXISTENCE, OR ACCURACY OF UNDERGROUND FACILITIES. FIELD VERIFY THE EXACT LOCATIONS, SIZES, AND ELEVATIONS OF THE POINTS OF CONNECTIONS TO EXISTING UTILITIES.
- 2. PAY ALL FEES AND COSTS ASSOCIATED WITH UTILITY MODIFICATIONS AND CONNECTIONS, REGARDLESS OF THE ENTITY THAT PERFORMS THE WORK.
- 3. COORDINATE THE WORK AND WORK SCHEDULE WITH UTILITY COMPANIES. PROVIDE ADEQUATE NOTICE TO UTILITIES TO PREVENT DELAYS IN CONSTRUCTION.

SITE RESTORATION NOTES

SEAL

SEAL

- 1. PROVIDE 6 INCHES OF TOPSOIL AND SEED TO AREAS DISTURBED DURING CONSTRUCTION AND NOT DESIGNATED TO BE RESTORED WITH IMPERVIOUS SURFACES (BUILDINGS, PAVEMENTS, WALKS, ETC.) UNLESS OTHERWISE NOTED.
- 2. REPAIR DAMAGES RESULTING FROM CONSTRUCTION LOADS, AT NO ADDITIONAL COST TO OWNER.
- 3. RESTORE AREAS DISTURBED BY CONSTRUCTION OPERATIONS TO THEIR ORIGINAL CONDITION OR BETTER, AT NO ADDITIONAL COST TO OWNER.

CANNOT BE COMPLETED AS INDICATED.

4. BOUNDS OR MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE SET OR RESET BY A PROFESSIONAL LICENSED SURVEYOR.

> HORZ. VERT. DATUM: HORZ.: VERT. GRAPHIC SCALE



www.fando.com

FUSS&O'NEILL PROVIDENCE, RI 02908 401.861.3070

TOWN OF LEICESTER GENERAL NOTES & INFORMATION

WAITE POND DAM REPAIRS

CHAPEL STREET, LEICESTER

GI-002

PROJ. No.: 20081286.A70

DATE: APRIL 2020

1 4/14/2020 ISSUED FOR BID No. DATE

1 4/14/2020 ISSUED FOR BID No. DATE DESCRIPTION DESIGNER REVIEWER

GRAPHIC SCALE

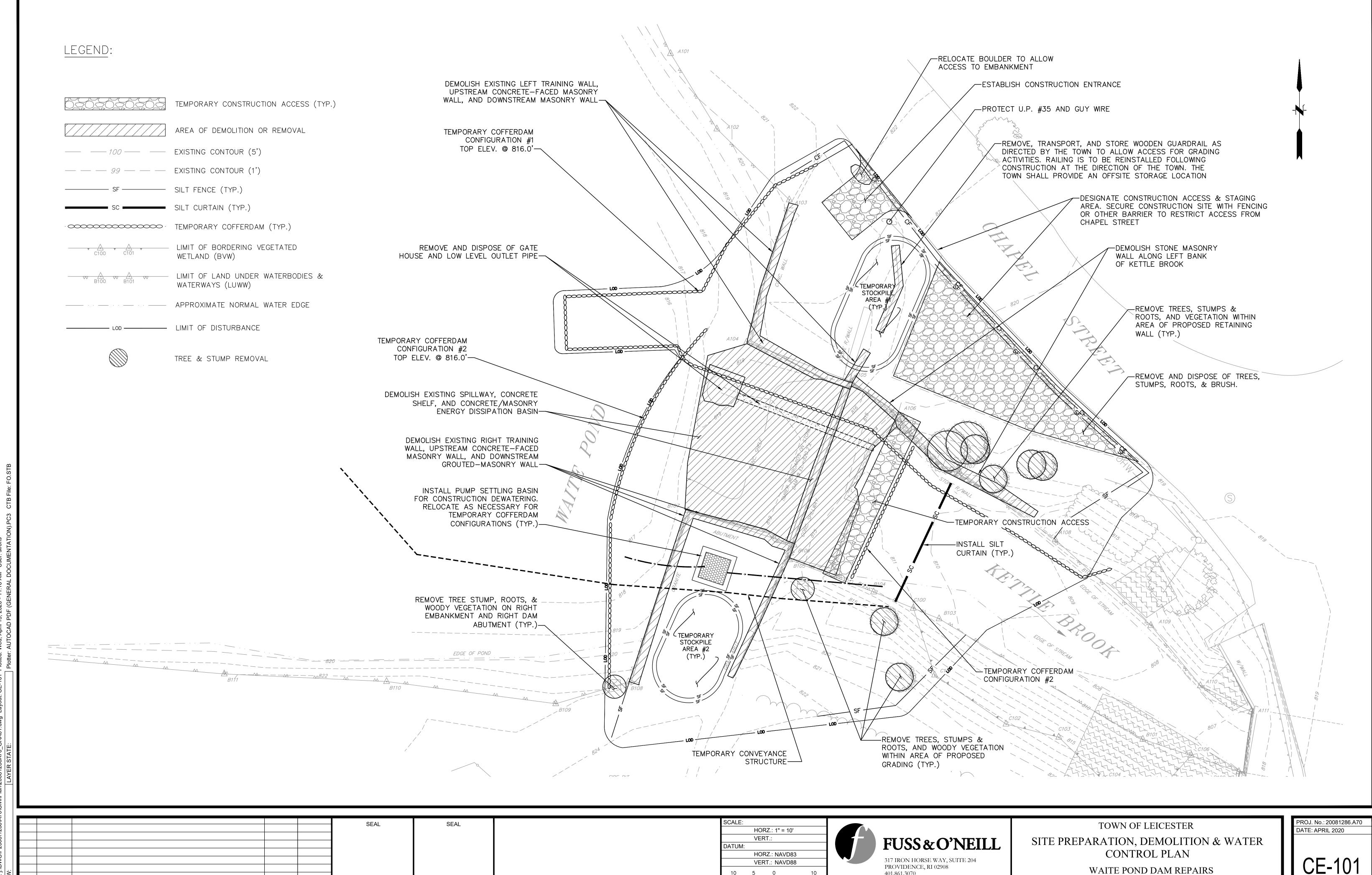


VERT.: NAVD 88

WAITE POND DAM REPAIRS

MASSACHUSETTS CHAPEL STREET, LEICESTER

RC-101



401.861.3070 www.fando.com

CHAPEL STREET, LEICESTER

GRAPHIC SCALE

1 4/14/2020 ISSUED FOR BID

DESCRIPTION

No. DATE

AJ

DESIGNER REVIEWER

PM

CE-101

- 1. ALL MA "DIG SAFE" A MINIMUM OF 72 HOURS PRIOR TO THE START OF EXCAVATION ACTIVITIES
- 2. MOBILIZE TO CONSTRUCTION SITE
- 3. PROVIDE CONSTRUCTION ENTRANCE AND SECURE CONSTRUCTION SITE AS INDICATED ON CE-101.
- 4. DESIGNATE TEMPORARY STOCKPILING AND STAGING AREAS.
- 5. PROVIDE EROSION & SEDIMENTATION CONTROL MEASURES AS 28. CONSTRUCT THE PROPOSED ENERGY DISSIPATION WALLS. INDICATED ON CE-101.
- 6. DRAWDOWN THE DAM IMPOUNDMENT A MAXIMUM OF EIGHT (8) FEET TO APPROXIMATE ELEVATION 811.2.
- 7. INSTALL TEMPORARY COFFERDAM CONFIGURATION #1. WATER CONTROL MEASURES SHALL BE FURNISHED TO ACCOMODATE FLOOD FLOWS UP TO ELEVATION 816.0. BYPASS FLOW FROM THE IMPOUNDMENT TO THE DOWNSTREAM CHANNEL DURING CONSTRUCTION BY UTILIZING PUMPS, SIPHONS, CHANNELS, OR OTHER METHODS APPROVED BY THE ENGINEER.
- 8. DEMOLISH UPSTREAM LEFT CONCRETE AND STONE MASONRY
- 9. DEMOLISH THE LEFT CONCRETE SPILLWAY TRAINING WALLS, PORTION OF THE CONCRETE-CAPPED STONE MASONRY SPILLWAY, AND COLLAPSED STILLING BASIN WITHIN THE WORK AREA CONTAINED IN TEMPORARY COFFERDAM CONFIGURATION #1.
- 10. DEMOLISH THE COLLAPSED STONE MASONRY RETAINING WALLS ALONG THE LEFT BANK OF THE DOWNSTREAM CHANNEL.
- 11. CONSTRUCT THE FOOTINGS FOR THE LEFT CONCRETE TRAINING WALL AND LOW-LEVEL OUTLET GATE VALVE CHAMBER.
- 12. CONSTRUCT THE LEFT TRAINING WALL, LOW—LEVEL OUTLET GATE VALVE CHAMBER WALLS, AND LEFT CONCRETE CUTOFF
- 13. CONSTRUCT THE CONCRETE CRADLES AND CONCRETE HEADWALL FOR THE LOW-LEVEL OUTLET PIPE. FURNISH AND INSTALL THE 24" DUCTILE IRON PIPES AS SHOWN ON THE
- 14. CONSTRUCT THE CONCRETE THRUST BLOCK FOR THE 90° BEND OF THE LOW-LEVEL OUTLET PIPE.
- 15. PROVIDE A STAINLESS STEEL TRASH RACK FOR THE CONCRETE HEADWALL OF THE LOW-LEVEL OUTLET PIPE.
- 16. FURNISH AND INSTALL THE SLUICE GATE, GALVANIZED STEEL 42. RE-INSTALL TIMBER GUARDRAIL AS DIRECTED BY THE DAM GRATE COVERING, AND MISCELLANEOUS METALS FOR THE LOW-LEVEL OUTLET GATE VALVE CHAMBER.
- 17. REMOVE WOODY VEGETATION, SAPLINGS, AND TREES (INCLUDING STUMPS AND ROOTS AS NECESSARY FOR INSTALLATION OF THE LEFT CONCRETE GRAVITY RETAINING
- 18. CONSTRUCT THE LEFT CONCRETE GRAVITY RETAINING WALL ALONG THE LEFT BANK OF THE DOWNSTREAM CHANNEL.
- 19. PROVIDE A 4" PVC TOE DRAIN AND CLEAN-OUT ALONG THE LEFT TOE OF THE DAM EMBANKMENT AS INDICATED ON THE PLANS.
- 20. BACKFILL STRUCTURES TO PROPOSED GRADES AND PROVIDE A LEVEL EMBANKMENT CREST AT ELEVATION 824.0.
- 21. PROVIDE ROCKFILL ARMORING FOR THE UPSTREAM LEFT SLOPE OF THE DAM EMBANKMENT.
- 22. INSTALL TEMPORARY COFFERDAM CONFIGURATION #2 AS INDICATED ON SHEET CE-101. REMOVE TEMPORARY COFFERDAM CONFIGURATION #1. WATER CONTROL MEASURES SHALL BE FURNISHED TO ACCOMMODATE FLOOD FLOWS UP TO ELEVATION 816.0. BYPASS FLOW FROM THE IMPOUNDMENT TO THE DOWNSTREAM CHANNEL DURING CONSTRUCTION BY UTILIZING PUMPS, SIPHONS, CHANNELS, THE NEWLY INSTALLED LOW-LEVEL OUTLET, OR OTHER METHODS APPROVED BY THE ENGINEER.

- 23. REMOVE WOODY VEGETATION, SAPLINGS, AND TREES (INCLUDING STUMPS AND ROOTS ON THE RIGHT DAM CREST SLOPES, AND ABUTMENT.
- 24. DEMOLISH THE REMAINDER OF THE EXISTING SPILLWAY AND STILLING BASIN.
- 25. REMOVE AND DISPOSE OF THE EXISTING GATE HOUSE STRUCTURE AND LOW LEVEL OUTLET PIPE.
- 26. DEMOLISH THE RIGHT TRAINING WALL AND UPSTREAM RIGHT STONE AND CONCRETE WALL
- 27. CONSTRUCT THE PROPOSED ENERGY DISSIPATION SLAB AND KEY INTO BEDROCK AS INDICATED ON STR-01 AND STR-02.
- 29. CONSTRUCT THE PROPOSED CONCRETE SPILLWAY.
- 30. FURNISH AND INSTALL TIMBER WEIR BOARDS ON THE SPILLWAY CREST TO ELEVATION 820.23.
- 31. CONSTRUCT THE RIGHT CONCRETE TRAINING WALLS AND FOOTINGS AND THE RIGHT CONCRETE CUTOFF WALL.
- 32. PROVIDE A 4" PVC TOE DRAIN AND CLEAN-OUT ALONG THE RIGHT TOE OF THE DAM EMBANKMENT AS INDICATED ON THE PLANS.
- 33. BACKFILL THE CONSTRUCTED SPILLWAY AND TRAINING
- 34. GRADE THE DOWNSTREAM RIGHT SLOPE AND THE UPSTREAM SLOPE TO THE PROPOSED GRADES SHOWN, AND PROVIDE A LEVEL DAM CREST AT ELEVATION 824.0.
- 35. PROVIDE ROCKFILL ARMORING FOR THE UPSTREAM RIGHT SLOPE OF THE DAM EMANKMENT.
- 36. PROVIDE MODIFIED ROCKFILL ARMORING FOR THE UPSTREAM SLOPE OF THE PROPOSED SPILLWAY.
- 37. PROVIDE RIPRAP ARMORING IN THE DOWNSTREAM CHANNEL TO THE EXTENTS SHOWN ON THE PLANS.
- 38. FURNISH AND INSTALL CHAIN LINK FENCING AS INDICATED ON THE PLANS. PROVIDE A CHAIN LINK SWING GATE AT LOW-LEVEL OUTLET GATE CHAMBER.
- 39. RE-INSTALL TIMBER GUARDRAIL WITHIN THE PARKING AREA AS DIRECTED BY THE DAM OWNER.
- 40. TOPSOIL, SEED, AND MULCH ALL DISTURBED EARTHEN AREAS. RESTORE OTHER DISTURBED AREAS (INCLUDING THE PARKING AREA) TO ORIGINAL OR IMPROVED CONDITION.
- 41. REMOVE WATER CONTROL MEASURES AND BEGIN TO REFILL THE DAM IMPOUNDMENT AT THE DIRECTION OF THE ENGINEER.
- OWNER (TYP.)
- 43. DEMOBILIZE FROM CONSTRUCTION SITE
- 44. ONCE VEGETATION HAS RE-ESTABLISHED. REMOVE EROSION AND SEDIMENTATION CONTROLS WITH THE APPROVAL OF THE LEICESTER CONSERVATION COMMISSION.

.---- 822 ---

PROPOSED NORMAL

SHALL RANGE FROM

ELEV. $820.25 \pm (TYP.)$

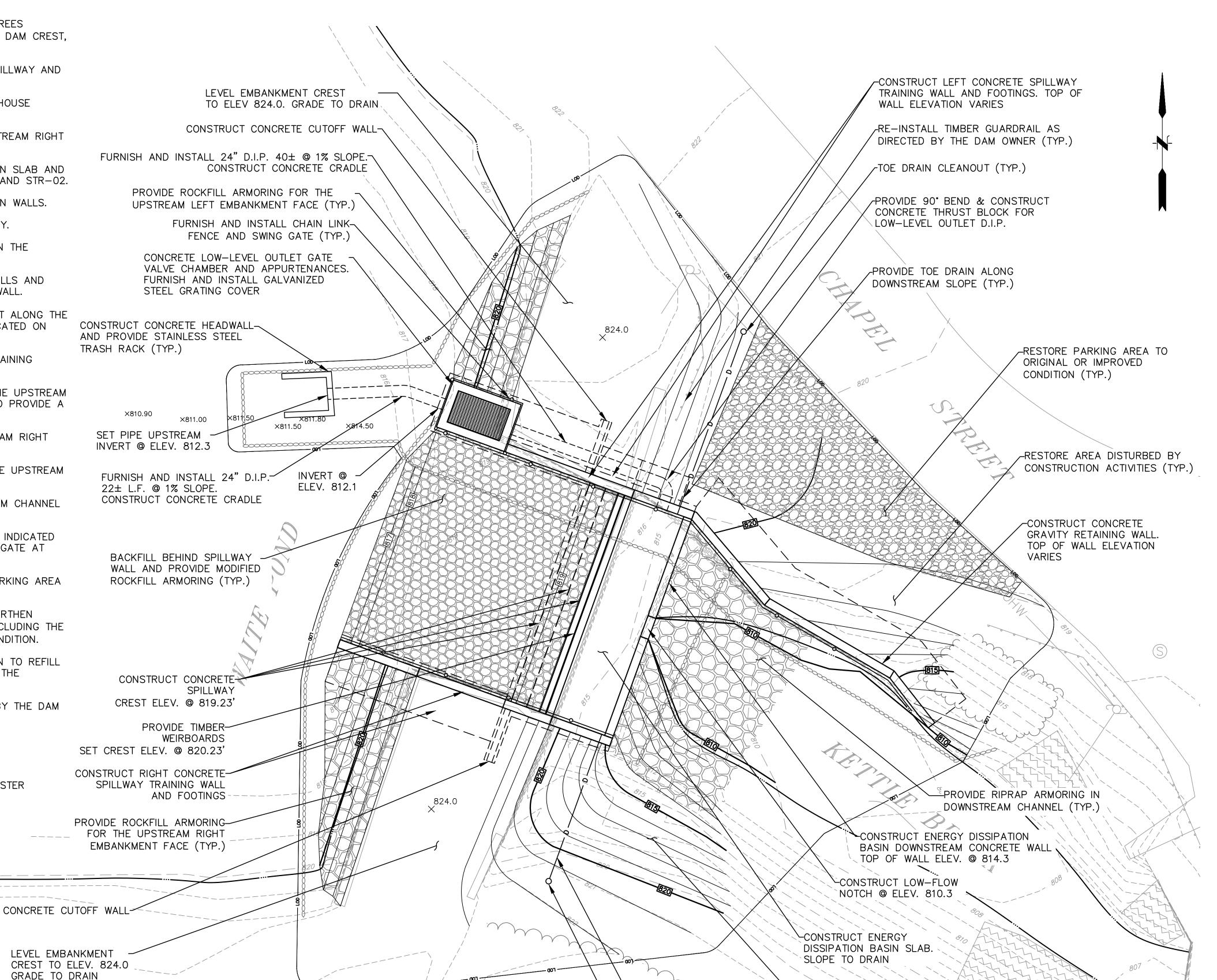
ELEV. 819.25± TO

SEAL

SEAL

WATER SURFACE

APPROXIMATE-



1 4/14/2020 ISSUED FOR BID No. DATE DESCRIPTION DESIGNER REVIEWE

HORZ.: 1" = 10' VERT.: DATUM: HORZ.: NAVD83 VERT.: NAVD88 GRAPHIC SCALE

FUSS&O'NEILL 317 IRON HORSE WAY, SUITE 204 PROVIDENCE, RI 02908 401.861.3070

www.fando.com

PROVIDE TOE DRAIN ALONG DOWNSTREAM SLOPE (TYP.)

TOE DRAIN CLEANOUT (TYP.)

TOWN OF LEICESTER

-GRADE PROPOSED SLOPE. TIE IN PROPOSED

CONTOURS WITH EXISTING GRADE (TYP.)

PROPOSED CONDITIONS PLAN

WAITE POND DAM REPAIRS

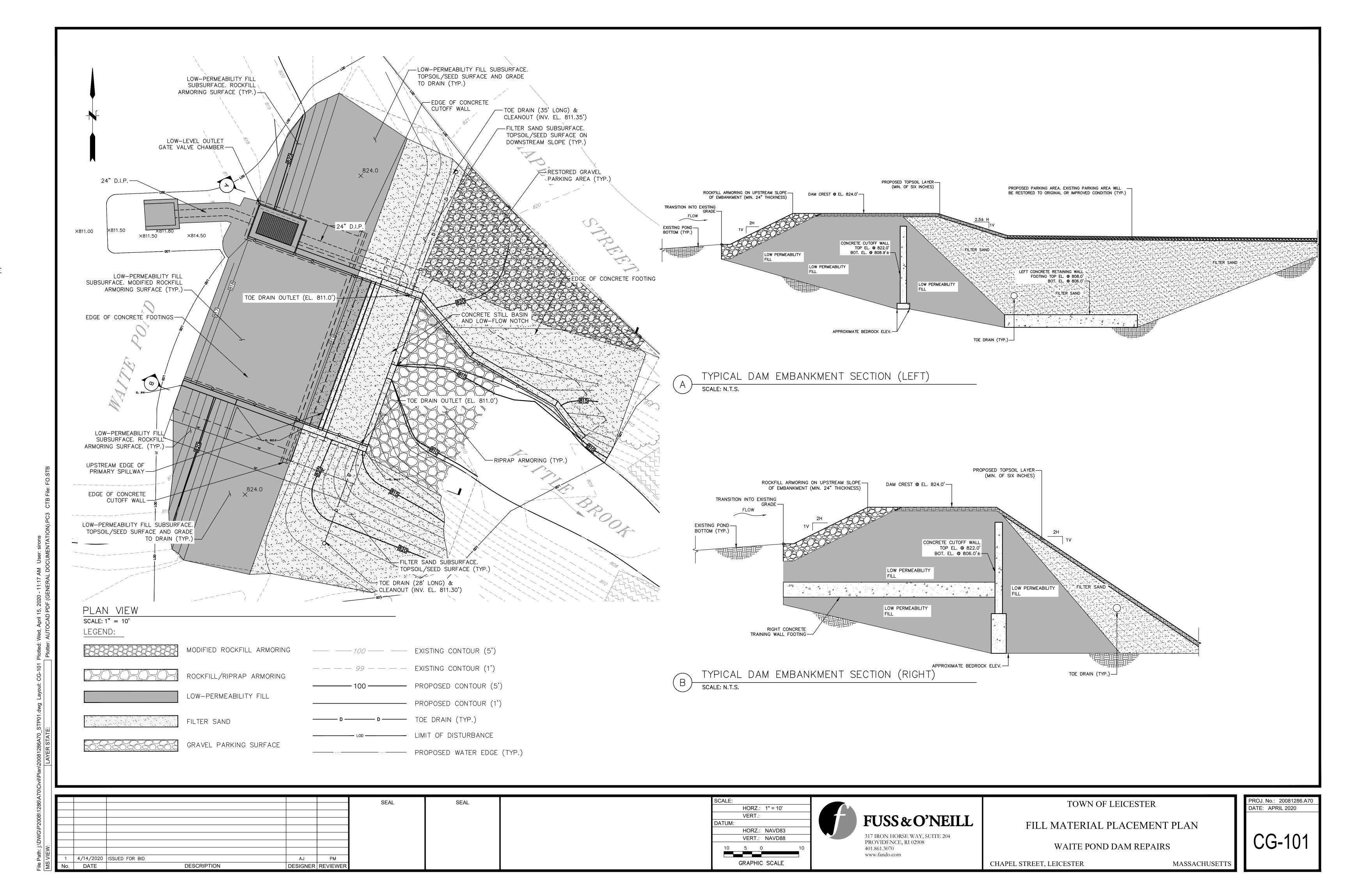
CHAPEL STREET, LEICESTER

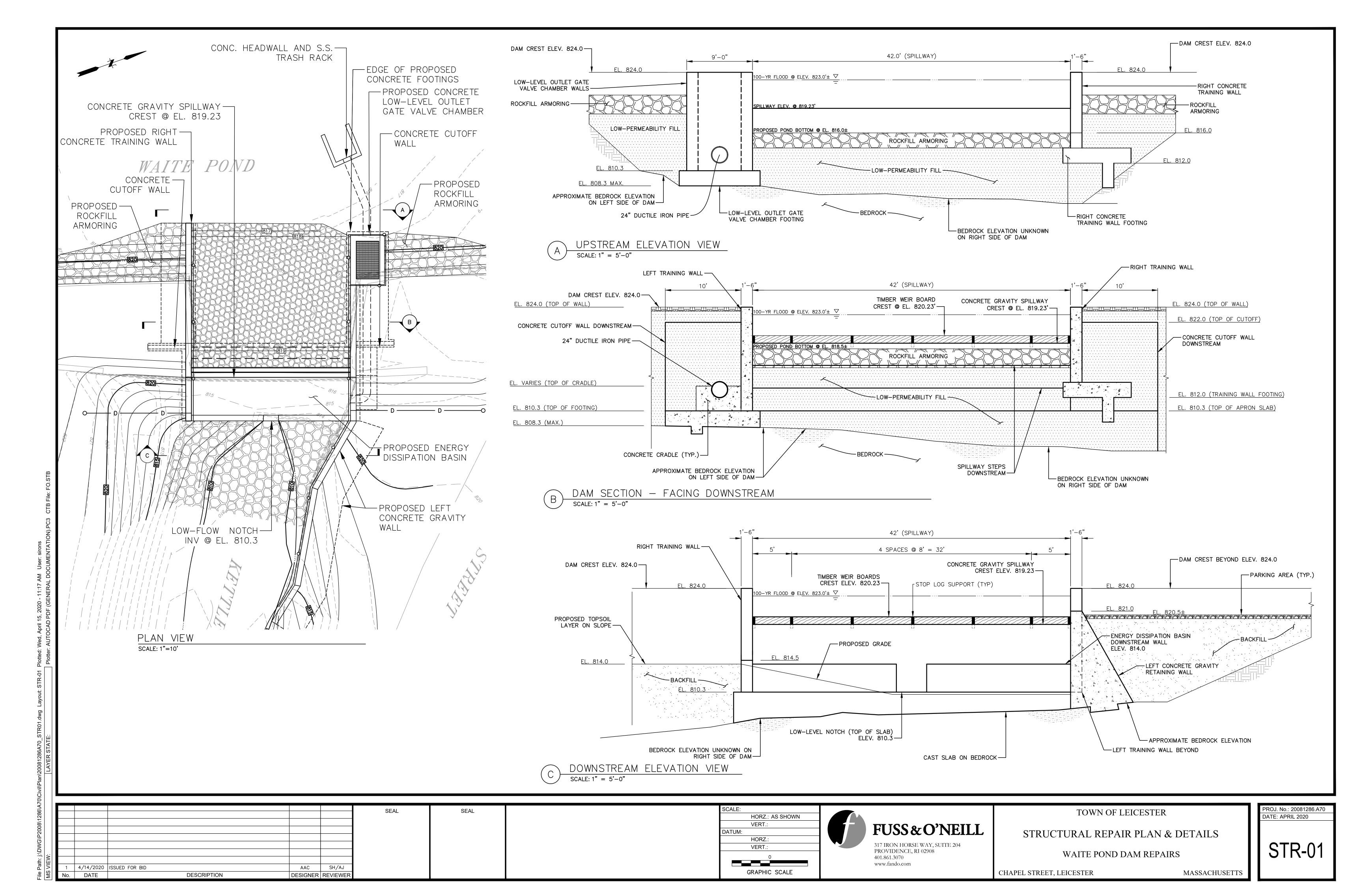
CS-101

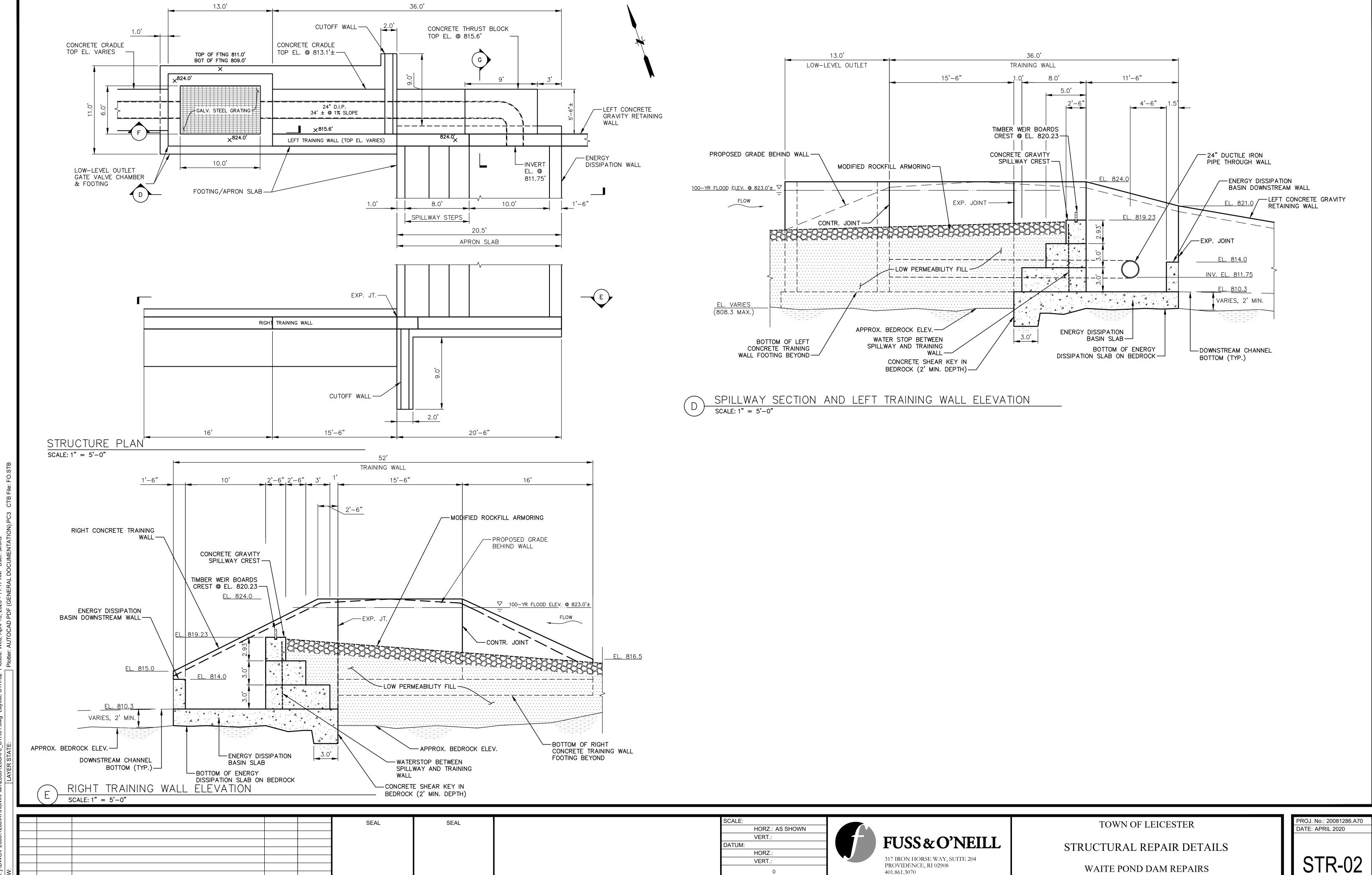
MASSACHUSETTS

DATE: APRIL 2020

PROJ. No.: 20081286.A70







www.fando.com

CHAPEL STREET, LEICESTER

GRAPHIC SCALE

1 4/14/2020 ISSUED FOR BID

DESCRIPTION

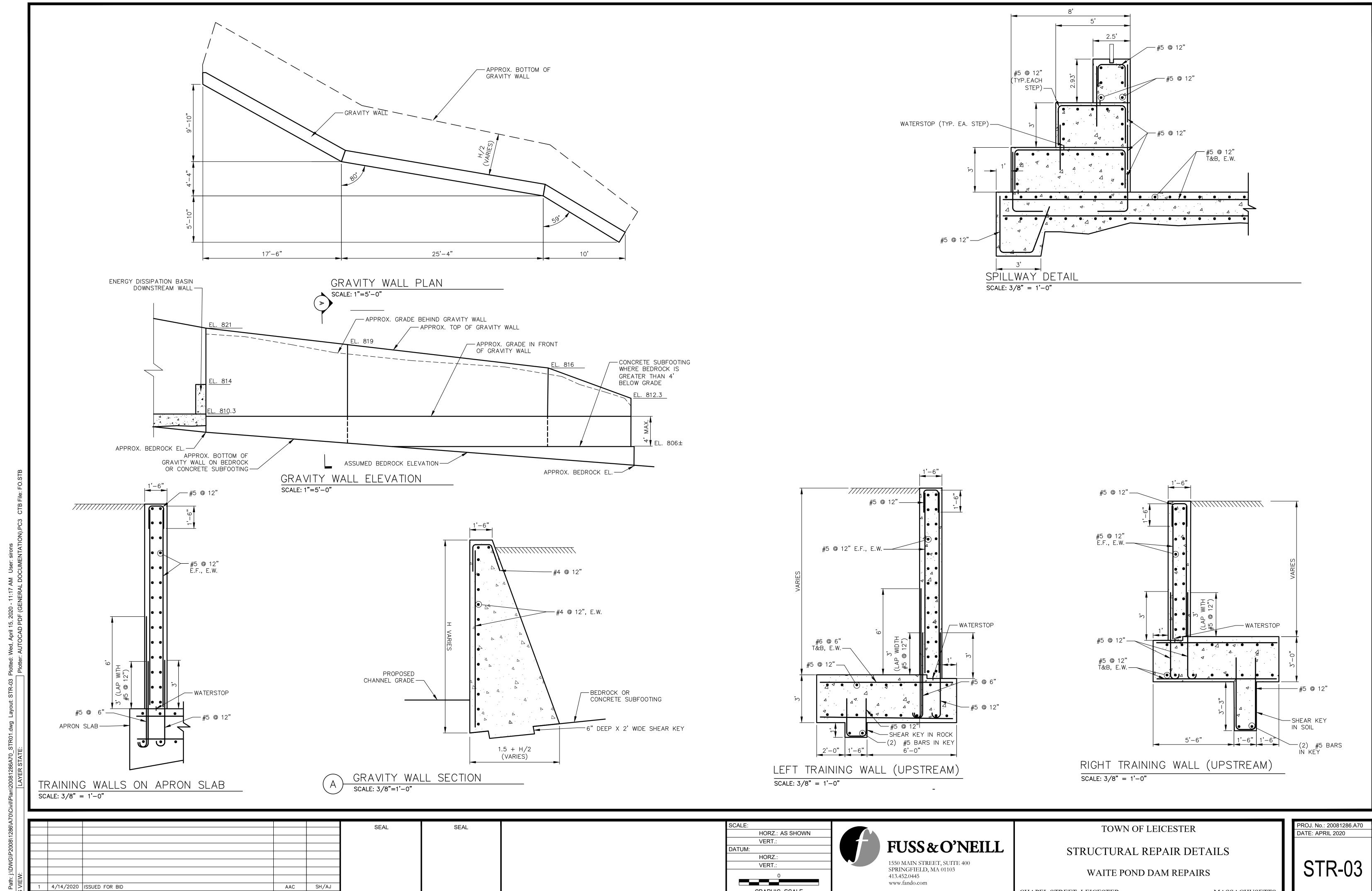
No. DATE

AAC

DESIGNER REVIEWER

SH/AJ

STR-02



GRAPHIC SCALE

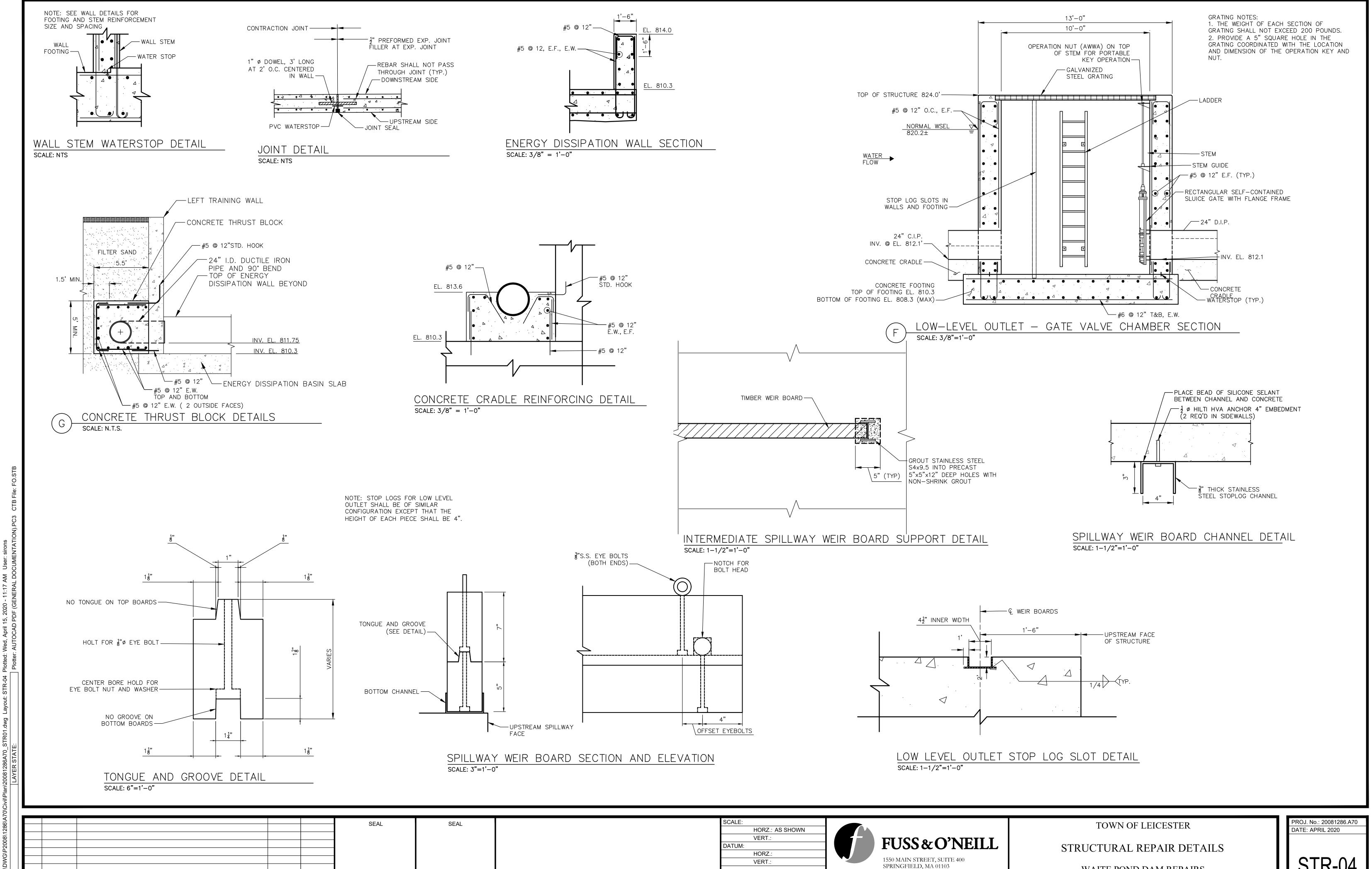
CHAPEL STREET, LEICESTER

MASSACHUSETTS

No. DATE

DESCRIPTION

DESIGNER REVIEWER



1 4/14/2020 ISSUED FOR BID

DESCRIPTION

No. DATE

AAC

DESIGNER REVIEWER

GRAPHIC SCALE

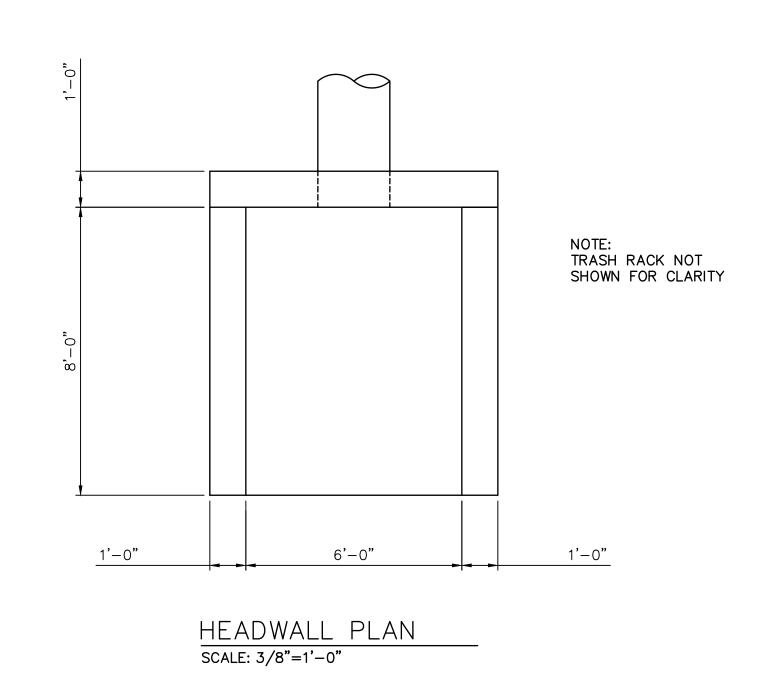
413.452.0445

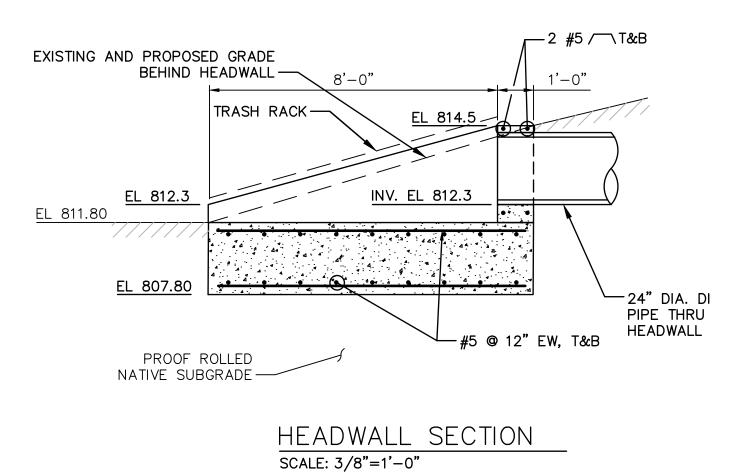
www.fando.com

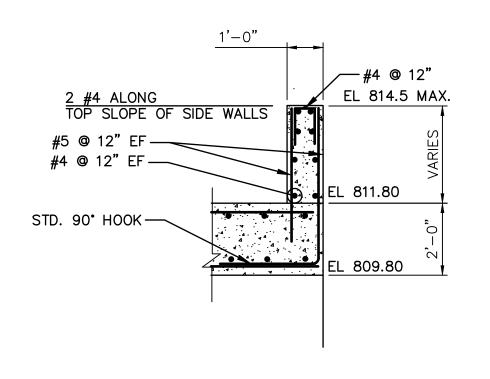
WAITE POND DAM REPAIRS

MASSACHUSETTS CHAPEL STREET, LEICESTER

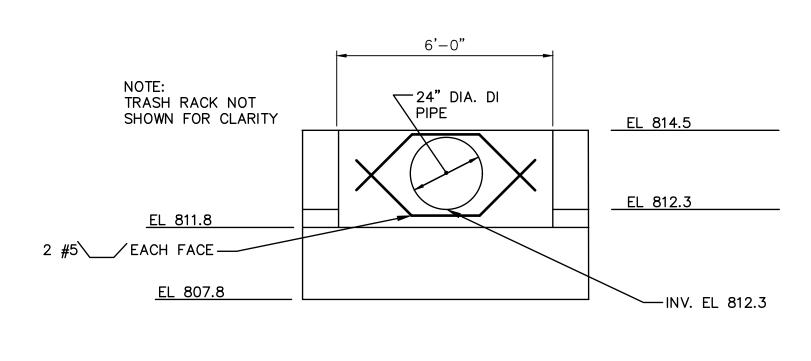
STR-04



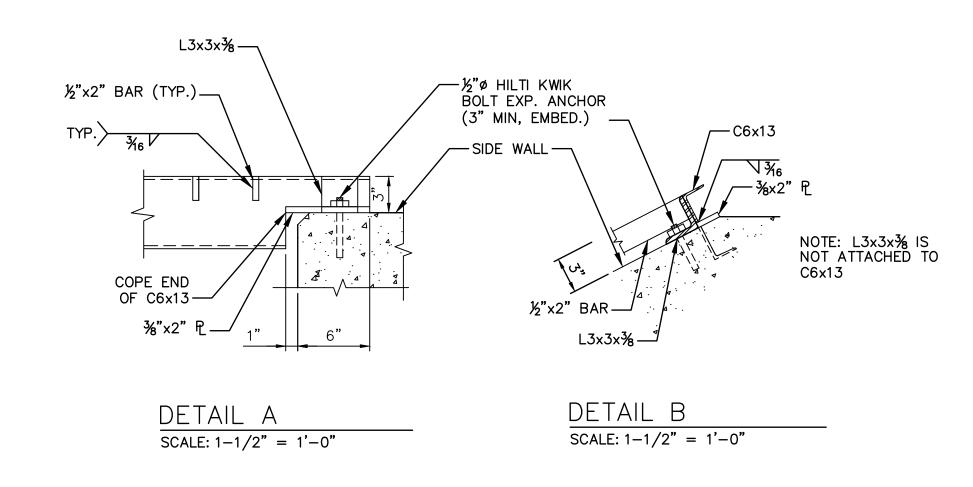


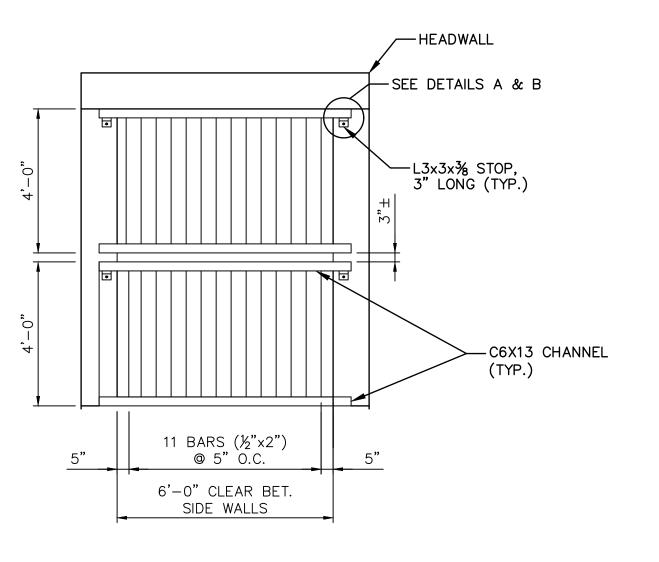


HEADWALL REINFORCING
SCALE: 3/8"=1'-0"



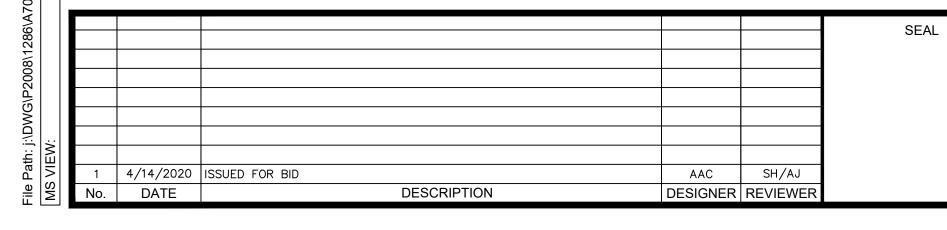
HEADWALL ELEVATION
SCALE: 3/8"=1'-0"





TRASH RACK PLAN

SCALE: 3/8 = 1'-0"



SEAL

HORZ.: AS SHOWN
VERT.:
DATUM:
HORZ.:
VERT.:

0
GRAPHIC SCALE



www.fando.com

TOWN OF LEICESTER

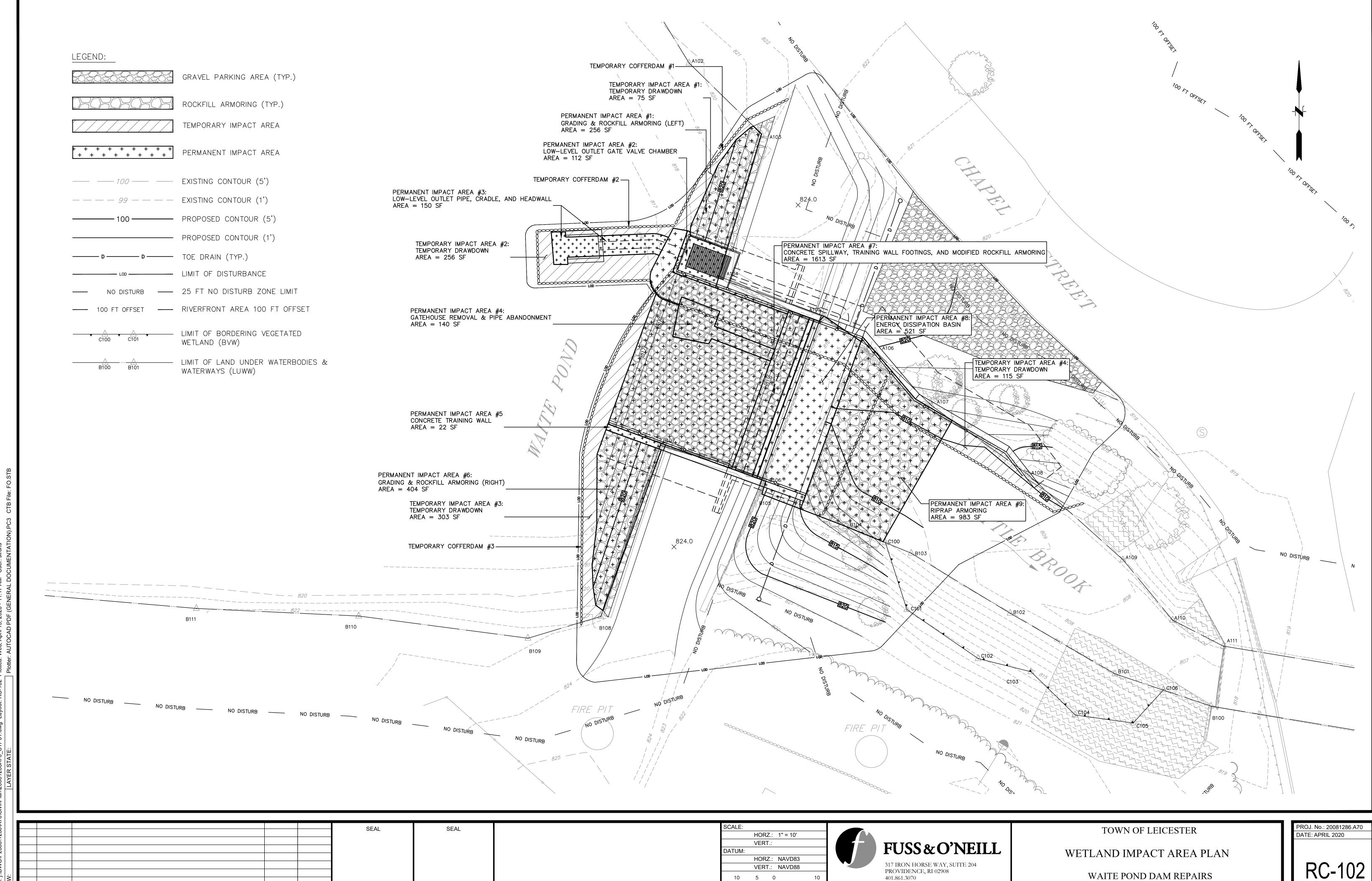
STRUCTURAL REPAIR DETAILS

WAITE POND DAM REPAIRS

CHAPEL STREET, LEICESTER MASSACHUSETTS

STR-05

PROJ. No.: 20081286.A70 DATE: APRIL 2020



www.fando.com

CHAPEL STREET, LEICESTER

MASSACHUSETTS

GRAPHIC SCALE

File Path: j:\DWG\P2008\1286\A70\Civil\Plan\20081286A70_STP01.dwg Layout: RC-102_Plotted: Wed, April 15, 2020 - 11

1 4/14/2020 ISSUED FOR BID

No. DATE

DESCRIPTION

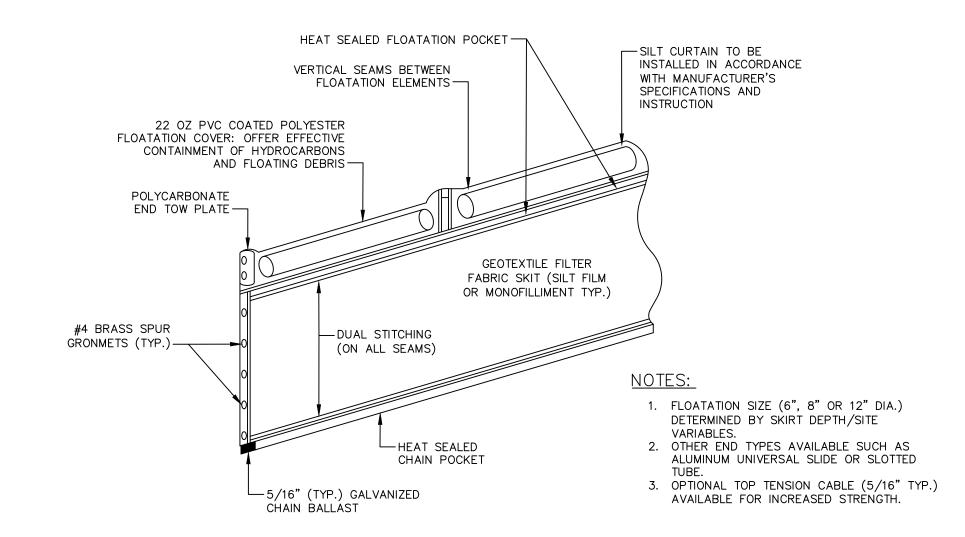
AJ

DESIGNER REVIEWER

PM

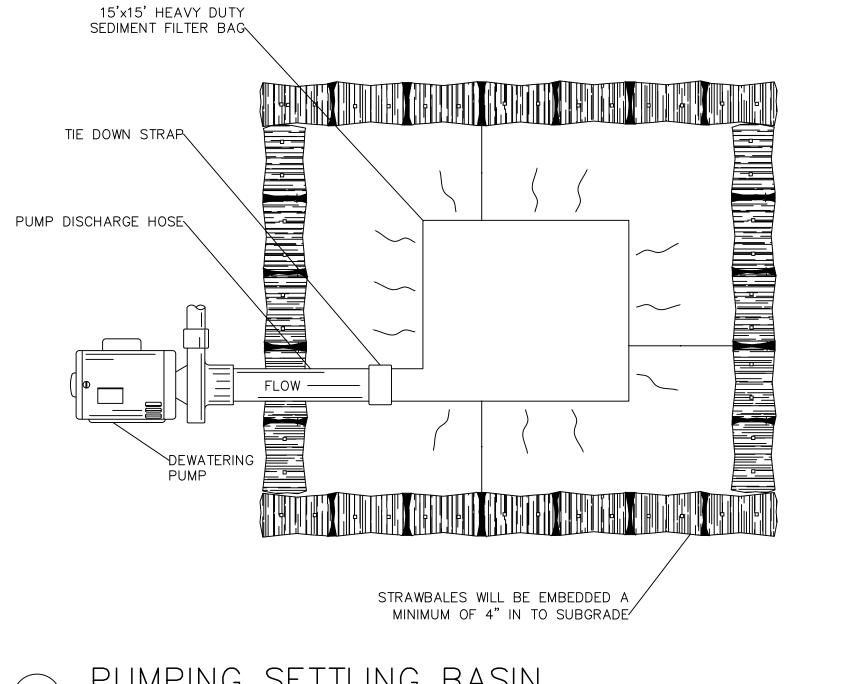
10 FT. O.C. FILTER FABRIC 2'-6" MAX. -BACKFILLED TRENCH EXISTING GRADE

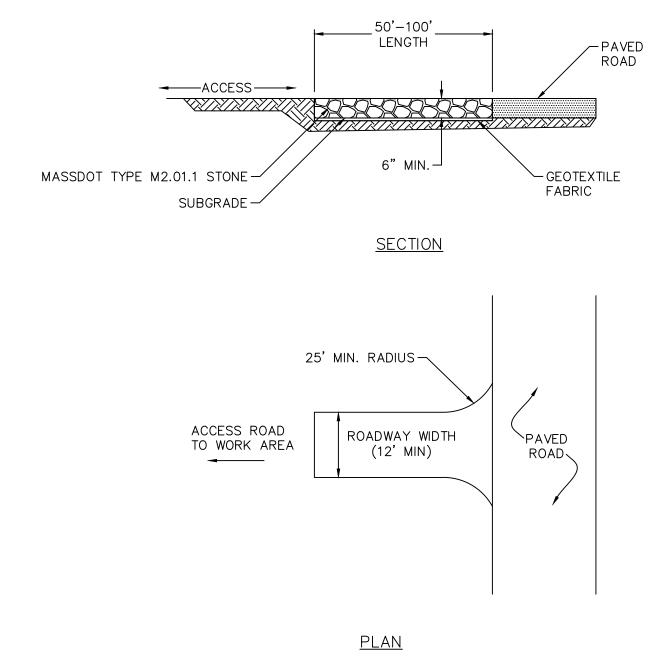
-1.5" SQ. WOOD STAKE OR STEEL POST



STRAWBALE BARRIER

SILT FENCE SCALE: NTS





CONSTRUCTION ENTRANCE SCALE: NTS

SEAL

PUMPING SETTLING BASIN SCALE: NTS

SEAL 1 4/14/2020 ISSUED FOR BID AJ РМ No. DATE DESCRIPTION DESIGNER REVIEWER

HORZ.: AS SHOWN VERT.: DATUM: HORZ.: VERT.: GRAPHIC SCALE



TOWN OF LEICESTER

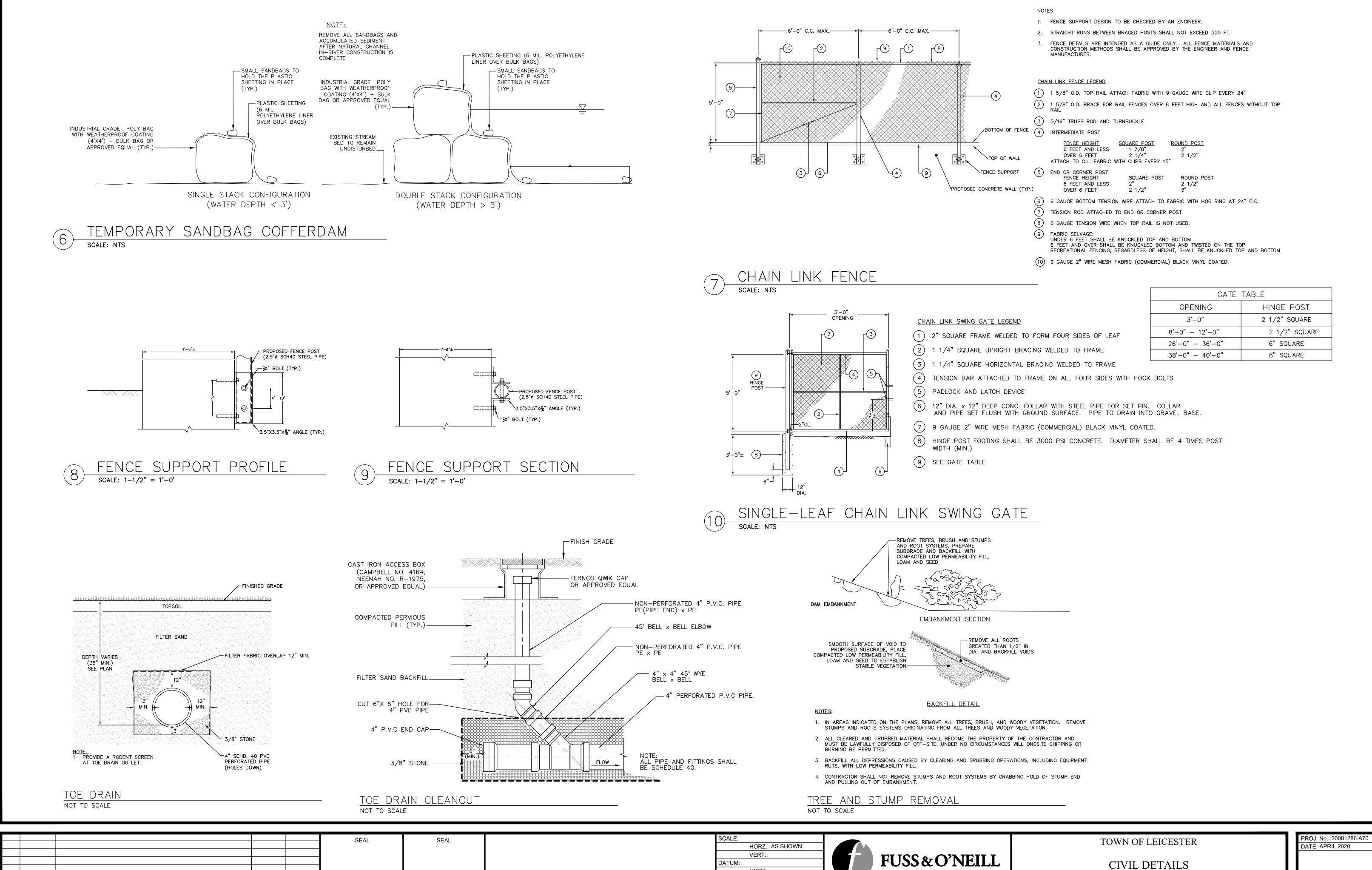
EROSION & SEDIMENTATION CONTROL DETAILS WAITE POND DAM REPAIRS

CHAPEL STREET, LEICESTER

CD-501

PROJ. No.: 20081286.A70

DATE: APRIL 2020



HORZ.:

VERT.

GRAPHIC SCALE

317 IRON HORSE WAY, SUITE 204

PROVIDENCE, RI 02908

401.861.3070 www.fando.com

4/14/2020 ISSUED FOR BID

DESCRIPTION

No. DATE

РМ

DESIGNER REVIEWE

CD-502

WAITE POND DAM REPAIRS

CHAPEL STREET, LEICESTER