

# WAITE POND DAM REPAIRS

## CONSTRUCTION DRAWINGS

MA00987 · CHAPEL STREET · LEICESTER · MASSACHUSETTS

APRIL, 2020

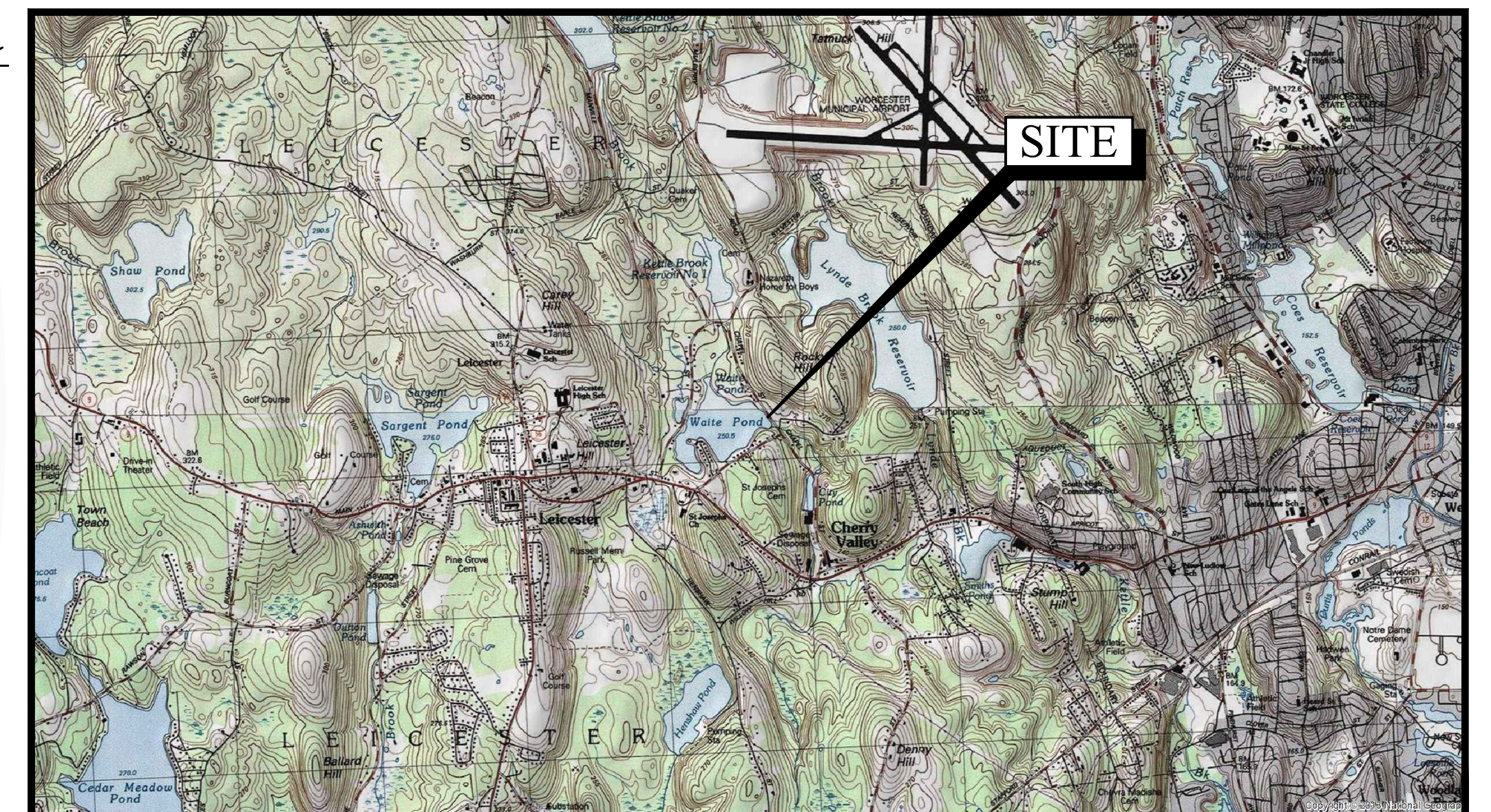
PREPARED FOR  
**TOWN OF LEICESTER**  
3 WASHBURN SQUARE  
LEICESTER, MA 01524



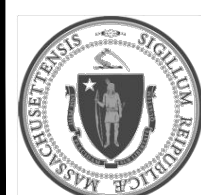
PREPARED BY  
**FUSS & O'NEILL**  
317 IRON HORSE WAY, SUITE 204  
PROVIDENCE, RI 02908  
401.861.3070  
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### SHEET INDEX

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**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

- WATER CONTROL NOTES

- ## WORK RESTRICTIONS & REGULATORY REQUIREMENTS

- AND LOCAL REGULATIONS, ORDINANCES AND STATUTES.

EROSION AND SEDIMENT CONTROL NOTES

- DEMOLITION & CONSTRUCTION LAYOUT NOTES

- ### EARTHWORK NOTES

- ### UTILITY NOTES

- ### SITE RESTORATION NOTES

- SCALE:

VERT.:

HORZ.:

VERT.:



GRAPHIC SCALE



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## GENERAL NOTES & INFORMATION

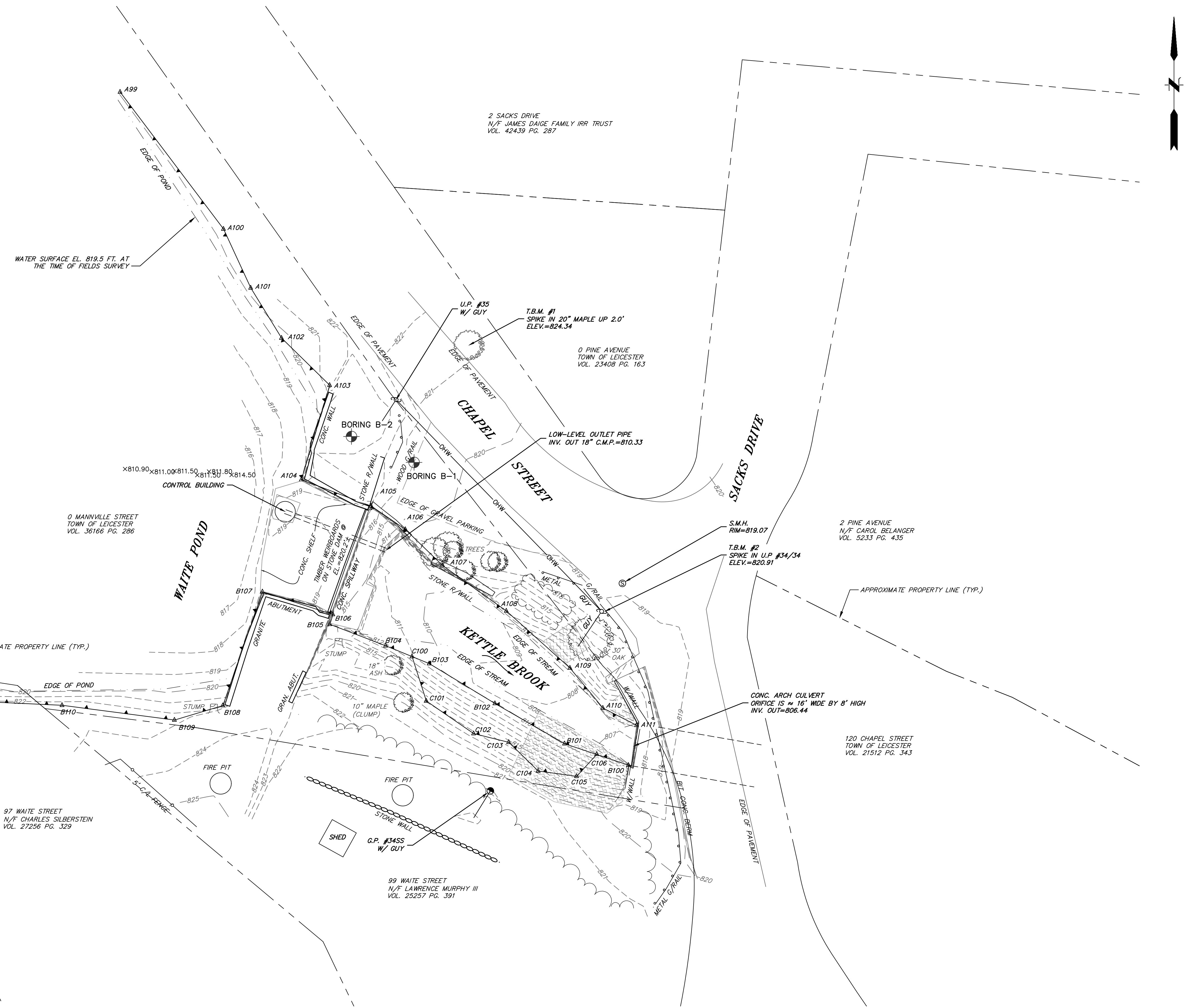
WAITE POND DAM REPAIRS

CHAPEL STREET, LEICESTER

MASSACHUSETTS

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

GI-002



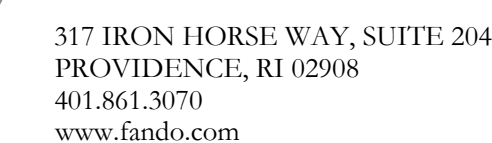
1. SURVEY PERFORMED BY SHERMAN & FRYDRYK LAND SURVEYING & ENGINEERING (PALMER, MA) ON 09/26/13.
2. PROPERTY BOUNDARY LINES ARE APPROXIMATE AND WERE OBTAINED FROM THE MASSGIS MUNICIPAL MAPPER. THIS INFORMATION IS NOT TO BE USED AS A LEGAL DESCRIPTION OF PROPERTY BOUNDARIES.
3. WETLANDS DELINEATED BY FUSS & O'NEILL ON 09/17/13.
4. ADDITIONAL BATHYMETRIC POINTS SHOWN WERE OBTAINED IN THE FIELD ON MAY 13, 2016 BY FUSS & O'NEILL, INC.

[illegible]

SEAL

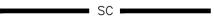
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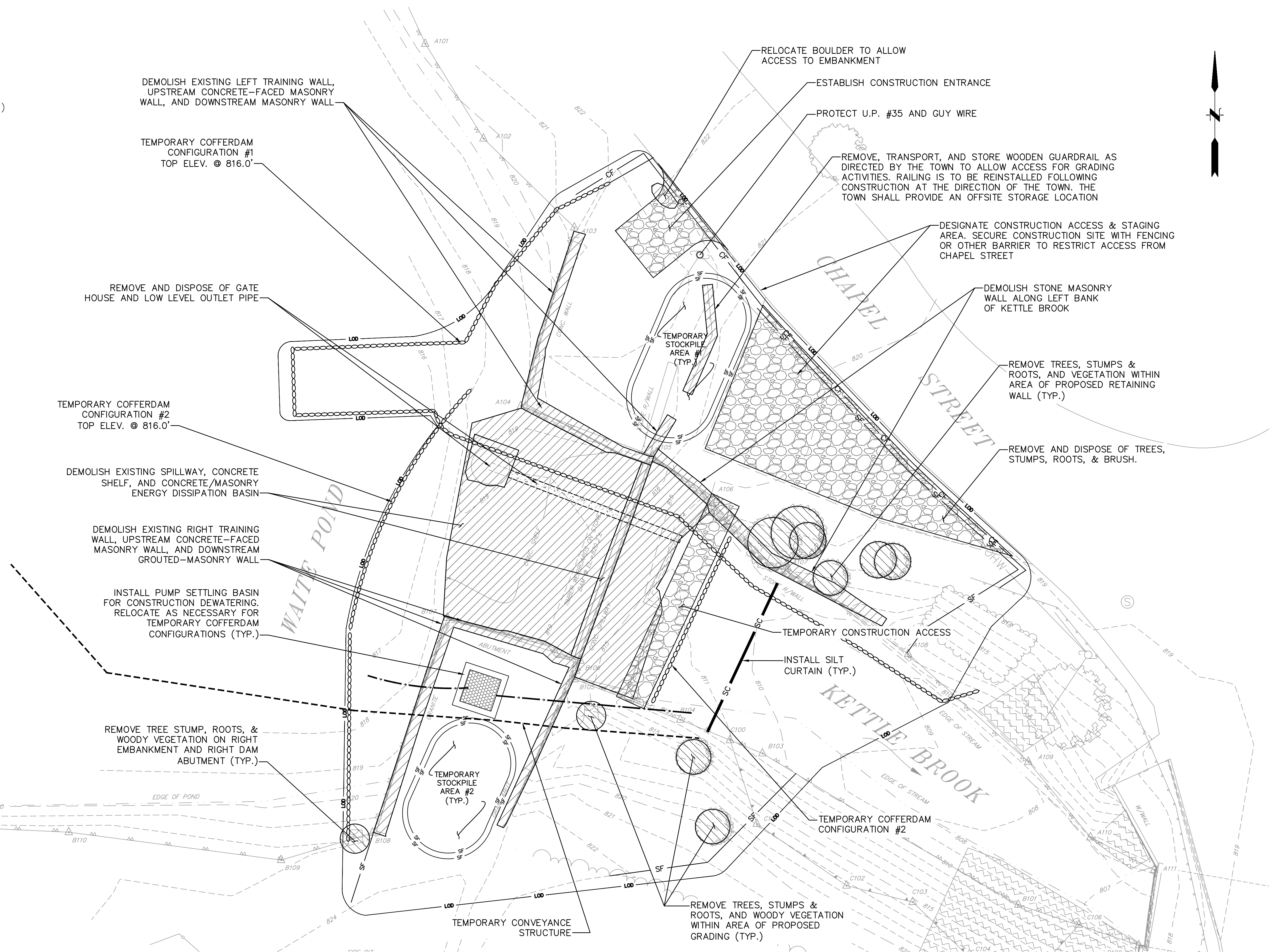
GRAPHIC SCALE



MASSACHUSETTS

RC-101

	TEMPORARY CONSTRUCTION ACCESS (TYP.)
	AREA OF DEMOLITION OR REMOVAL
	EXISTING CONTOUR (5')
	EXISTING CONTOUR (1')
	SILT FENCE (TYP.)
	SILT CURTAIN (TYP.)
	TEMPORARY COFFERDAM (TYP.)
	LIMIT OF BORDERING VEGETATED WETLAND (BVW)
	LIMIT OF LAND UNDER WATERBODIES & WATERWAYS (LUWW)
	APPROXIMATE NORMAL WATER EDGE
	LIMIT OF DISTURBANCE
	TREE & STUMP REMOVAL

[illegible]

SEAL

10 5 0 10

GRAPHIC SCALE



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CHAPEL STREET, LEICESTER

MASSACHUSETTS

CE-101

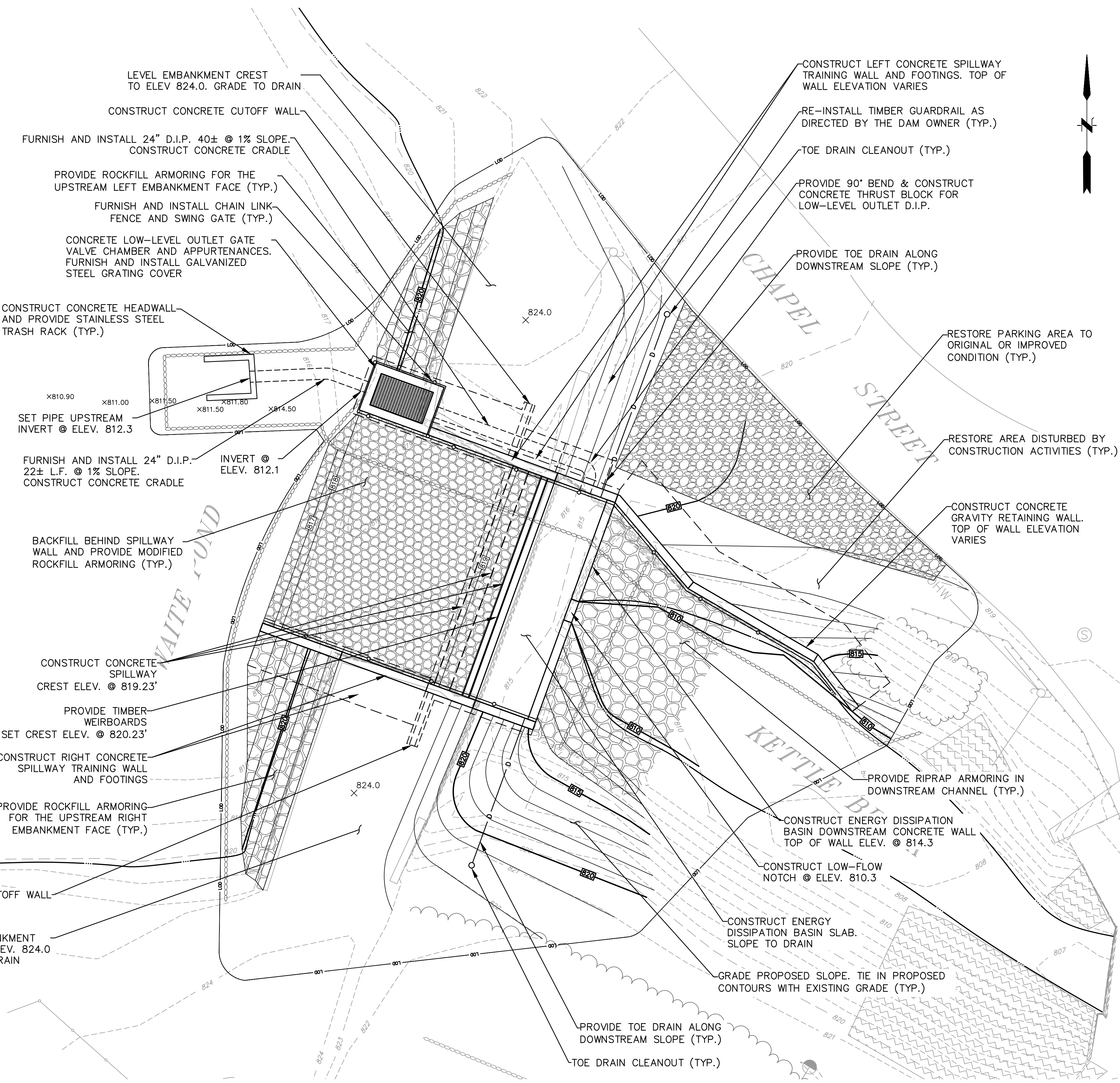
GENERAL CONSTRUCTION SEQUENCE:

THE FOLLOWING GENERAL CONSTRUCTION SEQUENCE MAY BE FOLLOWED. SOME ACTIVITIES MAY OCCUR CONCURRENTLY AND THE CONTRACTOR MAY ADJUST THE ORDER OF WORK TO FACILITATE THEIR MEANS AND METHODS. IT IS ANTICIPATED THAT WORK WILL BEGIN IN THE SUMMER OF 2020.

- ALL MA "DIG SAFE" A MINIMUM OF 72 HOURS PRIOR TO THE START OF EXCAVATION ACTIVITIES
- MOBILIZE TO CONSTRUCTION SITE
- PROVIDE CONSTRUCTION ENTRANCE AND SECURE CONSTRUCTION SITE AS INDICATED ON CE-101.
- DESIGNATE TEMPORARY STOCKPILING AND STAGING AREAS.
- PROVIDE EROSION & SEDIMENTATION CONTROL MEASURES AS INDICATED ON CE-101.
- DRAWDOWN THE DAM IMPOUNDMENT A MAXIMUM OF EIGHT (8) FEET TO APPROXIMATE ELEVATION 811.2.
- INSTALL 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, OR OTHER METHODS APPROVED BY THE ENGINEER.
- DEMOLISH UPSTREAM LEFT CONCRETE AND STONE MASONRY WALLS.
- 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.
- DEMOLISH THE COLLAPSED STONE MASONRY RETAINING WALLS ALONG THE LEFT BANK OF THE DOWNSTREAM CHANNEL.
- CONSTRUCT THE FOOTINGS FOR THE LEFT CONCRETE TRAINING WALL AND LOW-LEVEL OUTLET GATE VALVE CHAMBER.
- CONSTRUCT THE LEFT TRAINING WALL, LOW-LEVEL OUTLET GATE VALVE CHAMBER WALLS, AND LEFT CONCRETE CUTOFF WALL.
- 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 PLANS.
- CONSTRUCT THE CONCRETE THRUST BLOCK FOR THE 90° BEND OF THE LOW-LEVEL OUTLET PIPE.
- PROVIDE A STAINLESS STEEL TRASH RACK FOR THE CONCRETE HEADWALL OF THE LOW-LEVEL OUTLET PIPE.
- FURNISH AND INSTALL THE SLUICE GATE, GALVANIZED STEEL GRATE COVERING, AND MISCELLANEOUS METALS FOR THE LOW-LEVEL OUTLET GATE VALVE CHAMBER.
- REMOVE WOODY VEGETATION, SAPLINGS, AND TREES (INCLUDING STUMPS AND ROOTS AS NECESSARY FOR INSTALLATION OF THE LEFT CONCRETE GRAVITY RETAINING WALL.
- CONSTRUCT THE LEFT CONCRETE GRAVITY RETAINING WALL ALONG THE LEFT BANK OF THE DOWNSTREAM CHANNEL.
- PROVIDE A 4" PVC TOE DRAIN AND CLEAN-OUT ALONG THE LEFT TOE OF THE DAM EMBANKMENT AS INDICATED ON THE PLANS.
- BACKFILL STRUCTURES TO PROPOSED GRADES AND PROVIDE A LEVEL EMBANKMENT CREST AT ELEVATION 824.0.
- PROVIDE ROCKFILL ARMORING FOR THE UPSTREAM LEFT SLOPE OF THE DAM EMBANKMENT.
- 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.

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

APPROXIMATE PROPOSED NORMAL WATER SURFACE SHALL RANGE FROM ELEV. 819.25± TO ELEV. 820.25 ± (TYP.)



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

SEAL	SEAL
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SCALE:	HORZ.: 1" = 10'
	VERT.: 1" = 10'
DATUM:	HORZ.: NAVD83
	VERT.: NAVD88
	10 5 0 10
	GRAPHIC SCALE



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TOWN OF LEICESTER

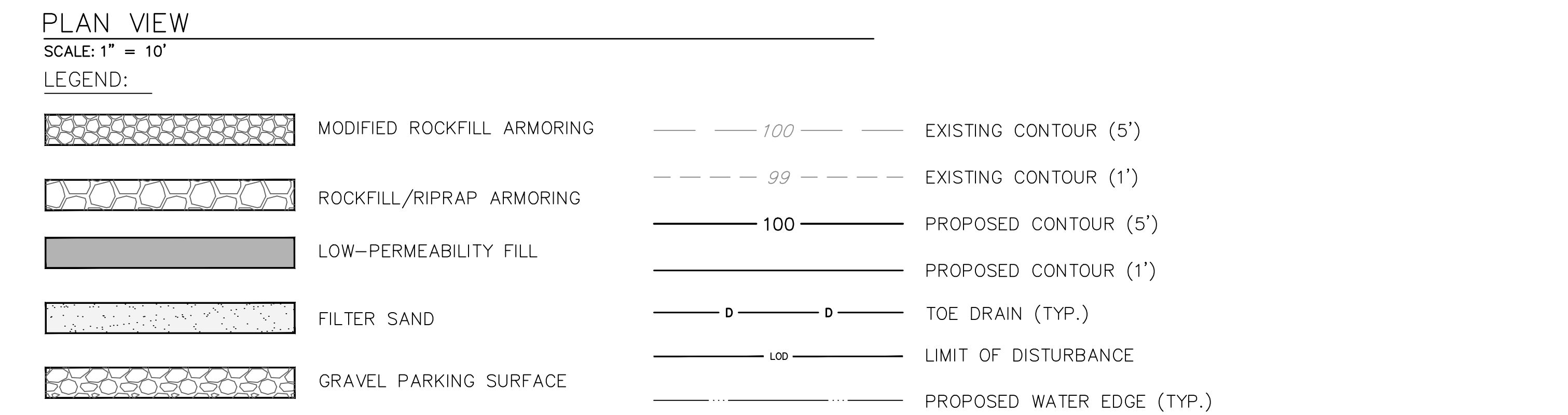
PROPOSED CONDITIONS PLAN

WAITE POND DAM REPAIRS


CHAPEL STREET, LEICESTER      MASSACHUSETTS

PROJ. No.: 20081286A70  
DATE: APRIL 2020

CS-101

[illegible]

SEAL

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



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TOWN OF LEICESTER

## FILL MATERIAL PLACEMENT PLAN

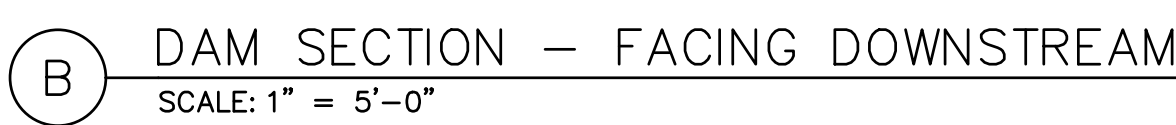
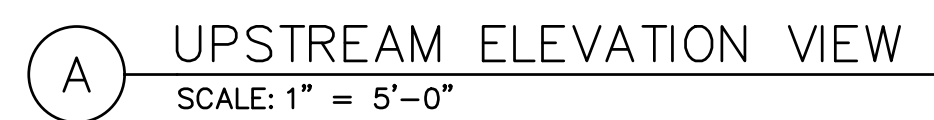
WAITE POND DAM REPAIRS

CHAPEL STREET, LEICESTER

MASSACHUSETTS

PROJ. No.: 20081286.A70
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CG-101



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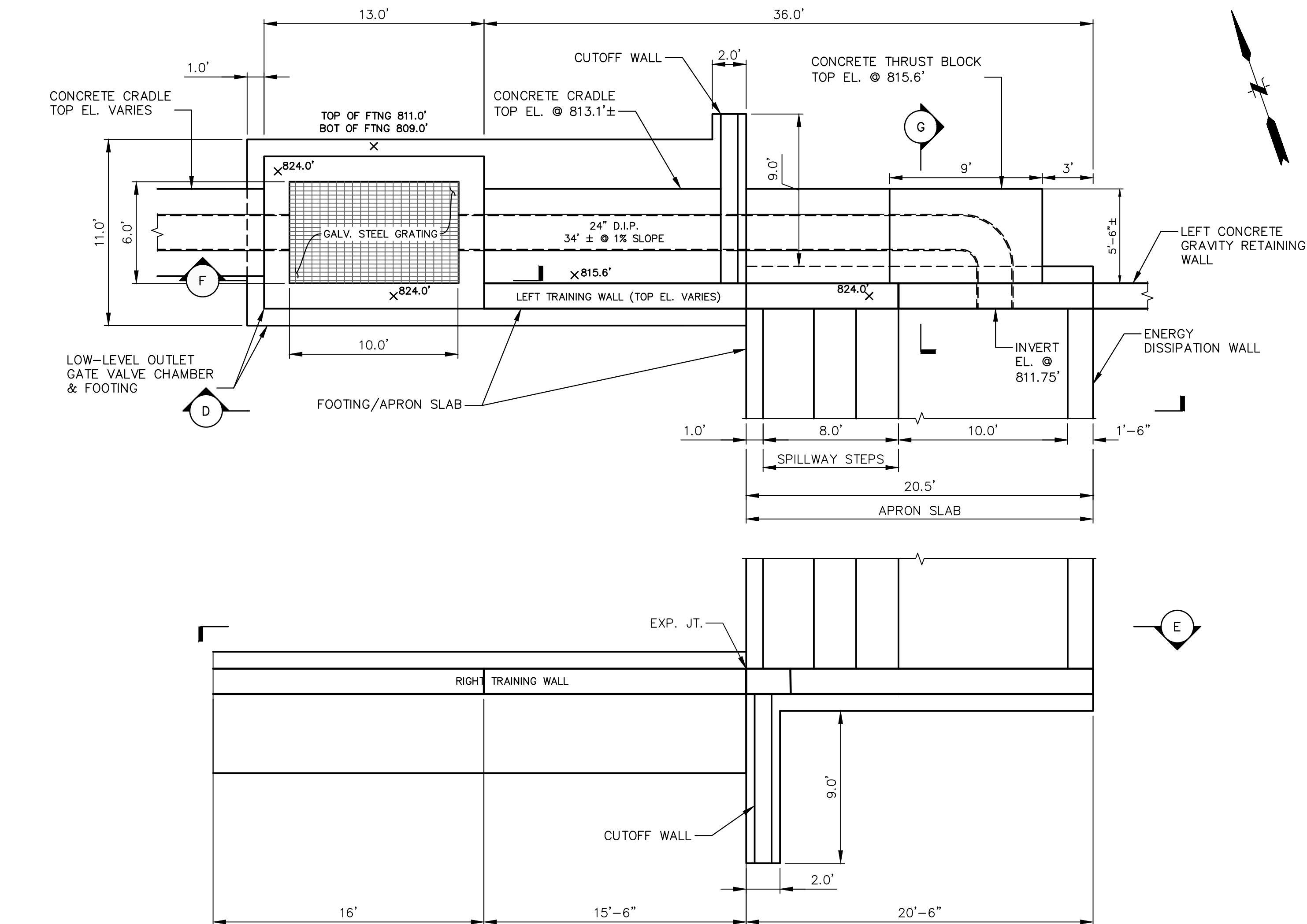


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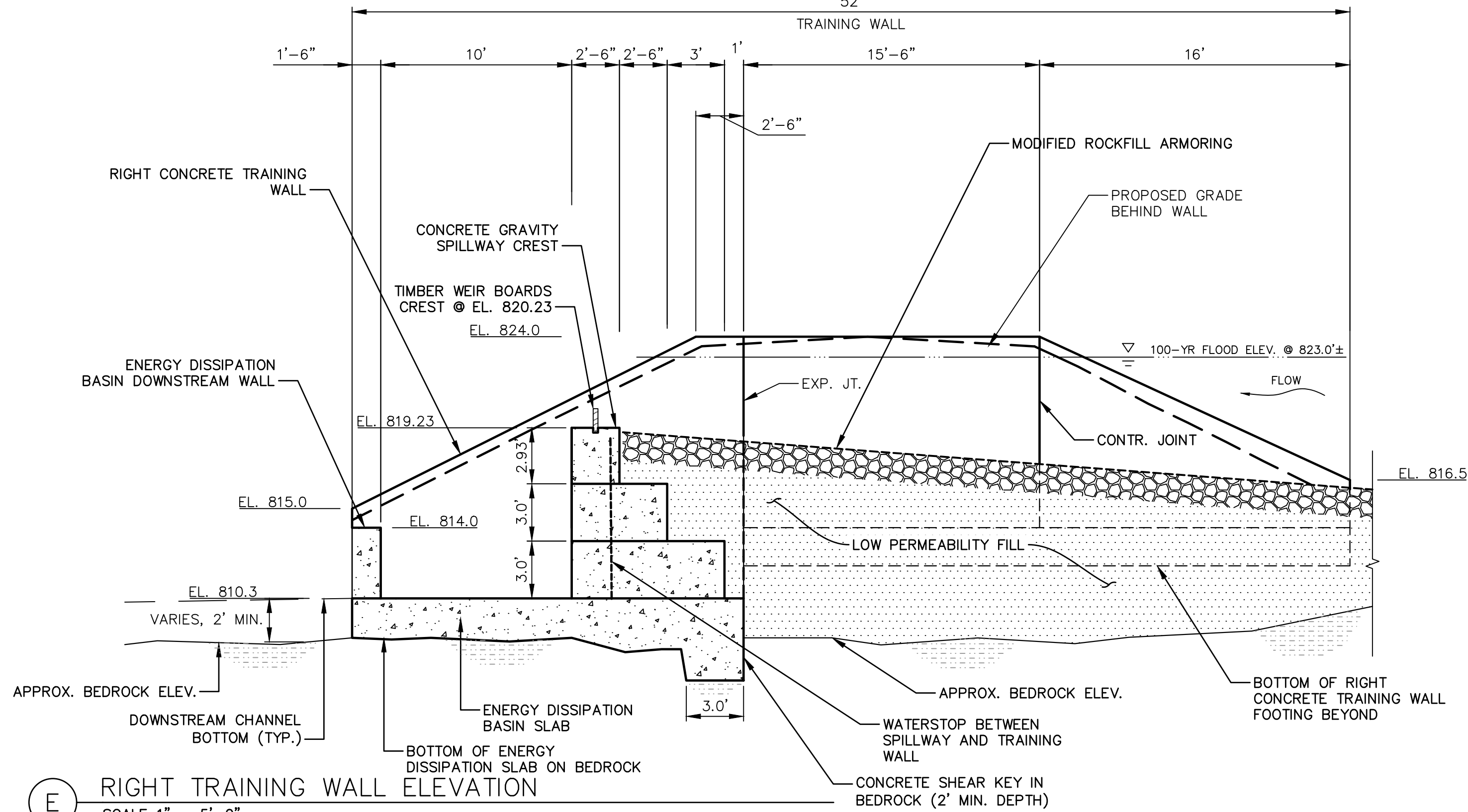
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PROJ. No.: 20081286.A70  
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**STR-01**

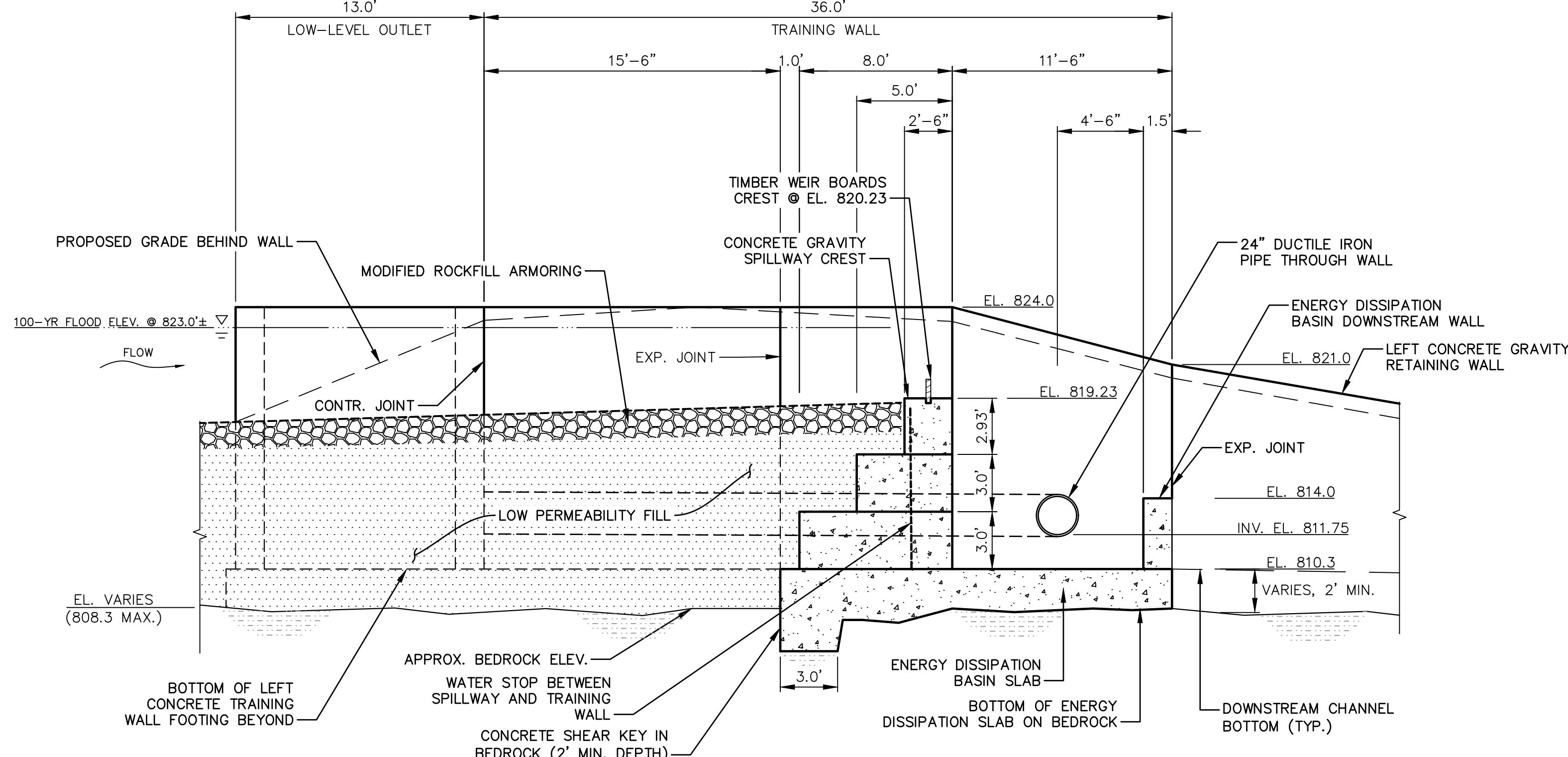
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MS VIEW: LAYER STATE:



STRUCTURE PLAN  
SCALE: 1" = 5'-0"



RIGHT TRAINING WALL ELEVATION  
SCALE: 1" = 5'-0"



SPILLWAY SECTION AND LEFT TRAINING WALL ELEVATION  
SCALE: 1" = 5'-0"

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

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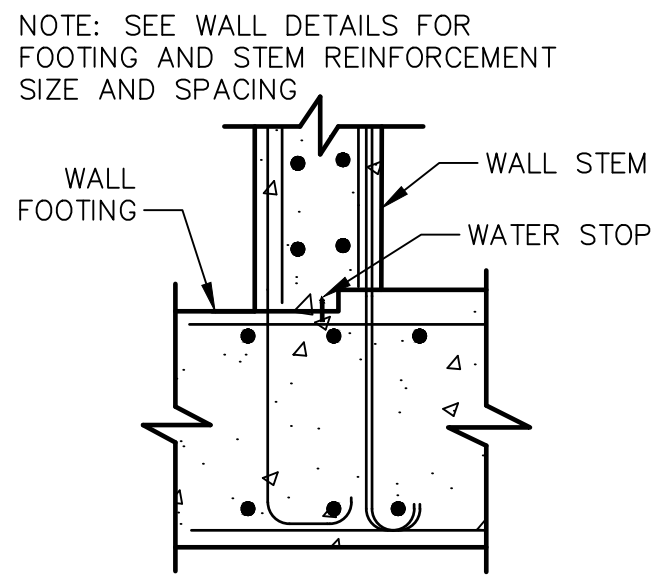
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TOWN OF LEICESTER  
STRUCTURAL REPAIR DETAILS  
WAITE POND DAM REPAIRS  
CHAPEL STREET, LEICESTER  
MASSACHUSETTS

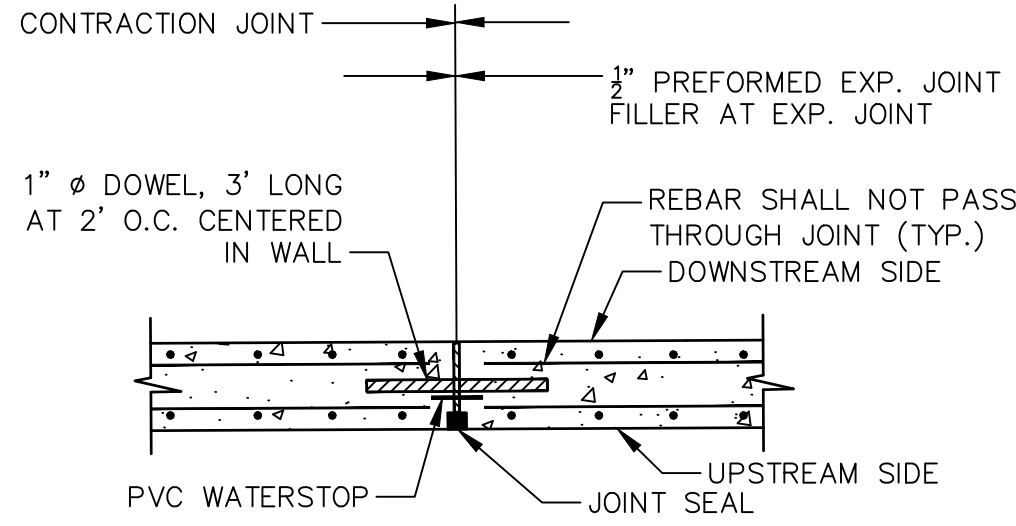
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**STR-02**



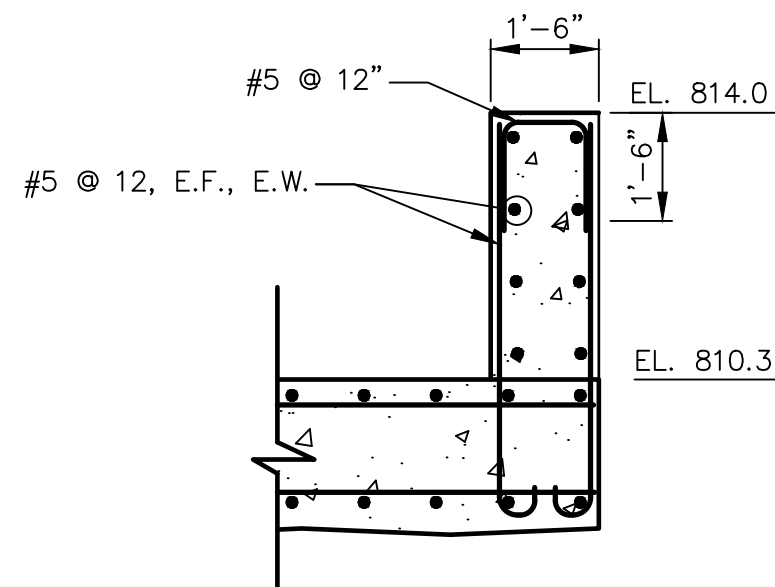
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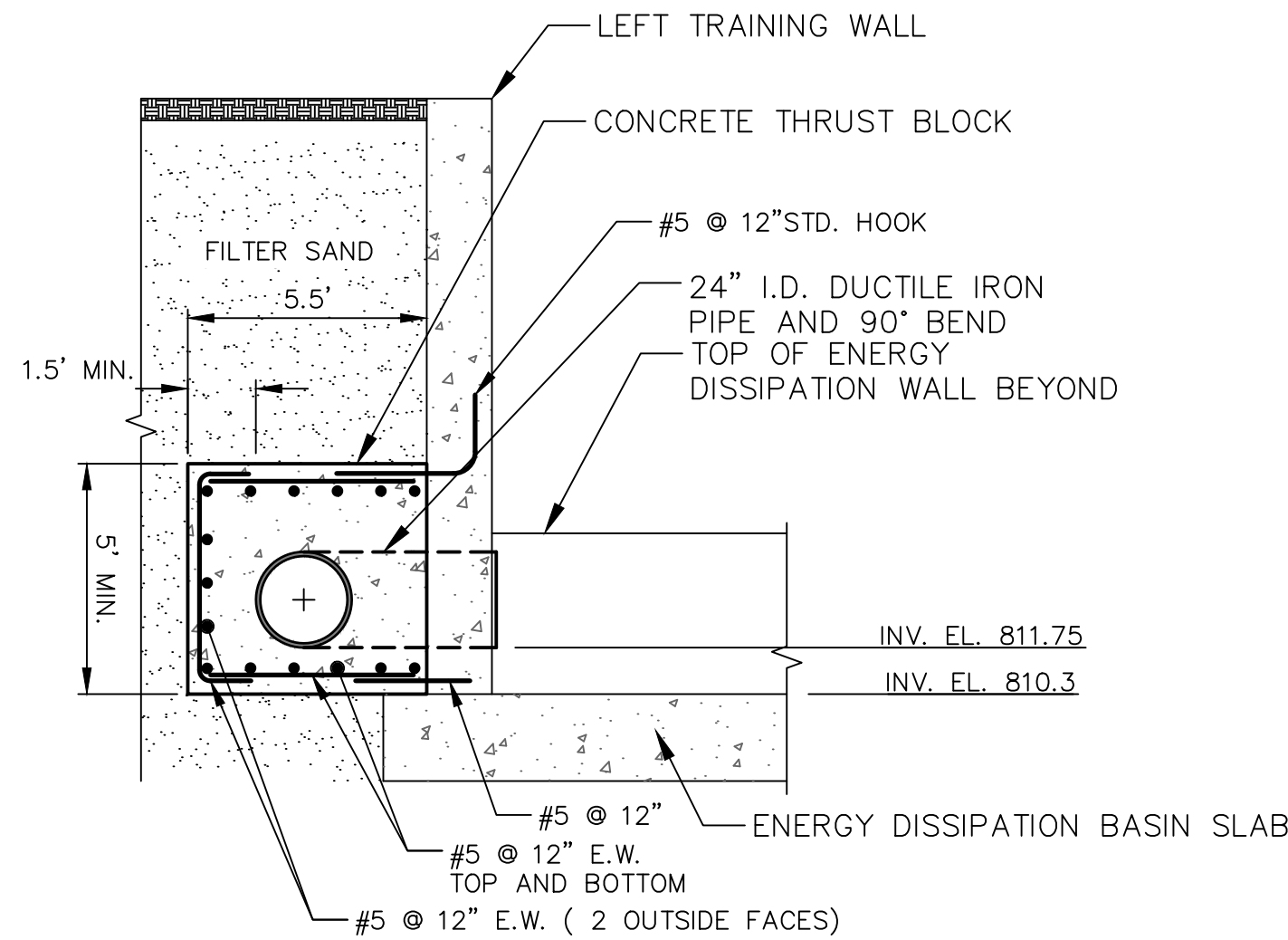
WALL STEM WATERSTOP DETAIL  
SCALE: NTS



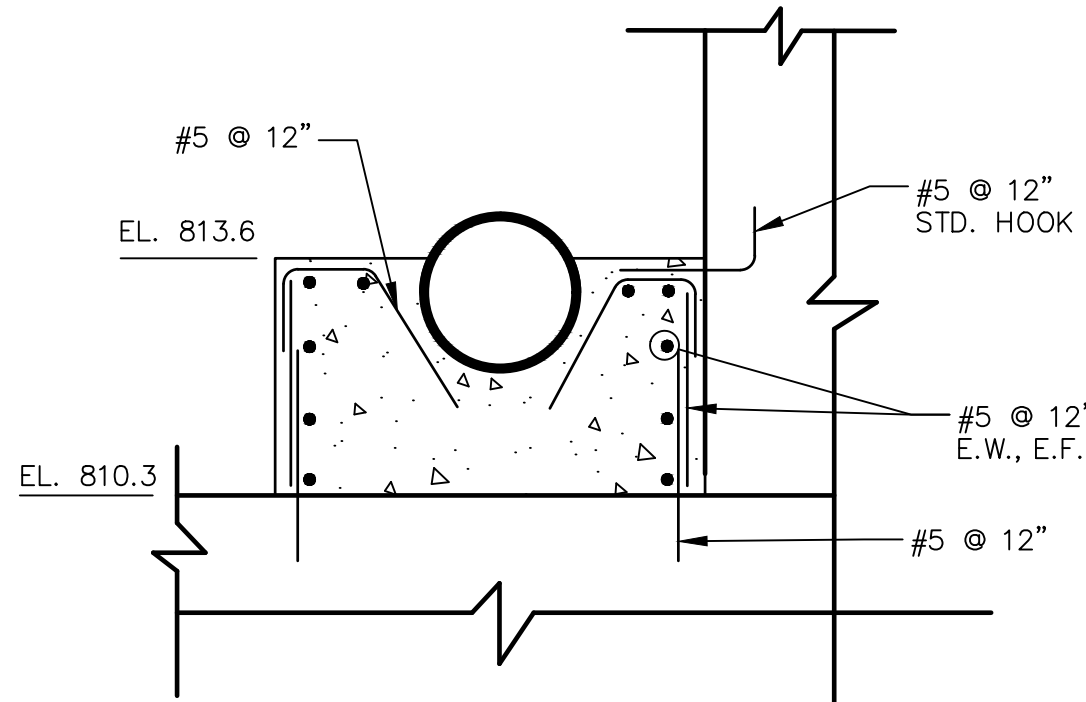
JOINT DETAIL  
SCALE: NTS



ENERGY DISSIPATION WALL SECTION  
SCALE: 3/8" = 1'-0"

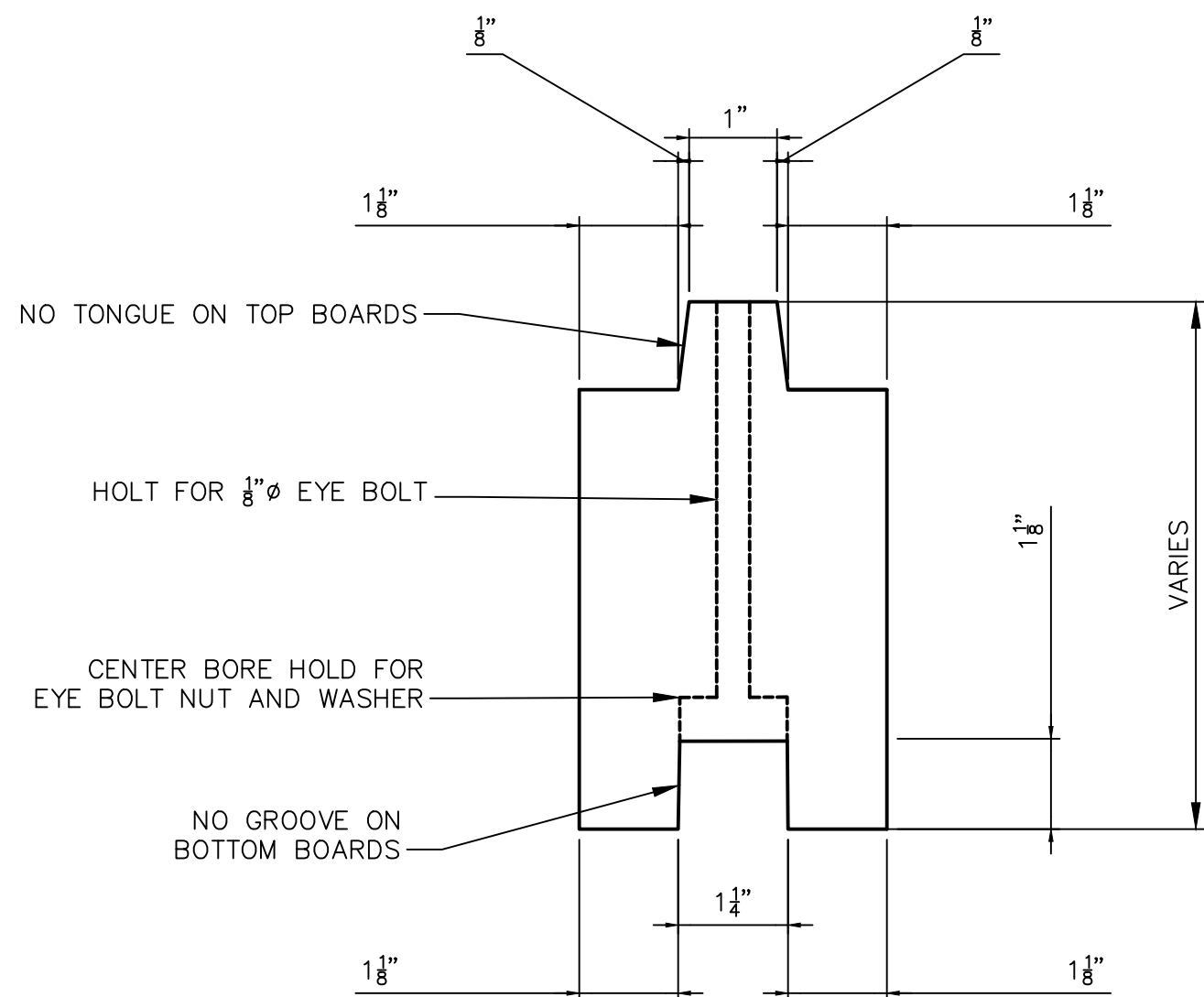


CONCRETE THRUST BLOCK DETAILS  
SCALE: N.T.S.

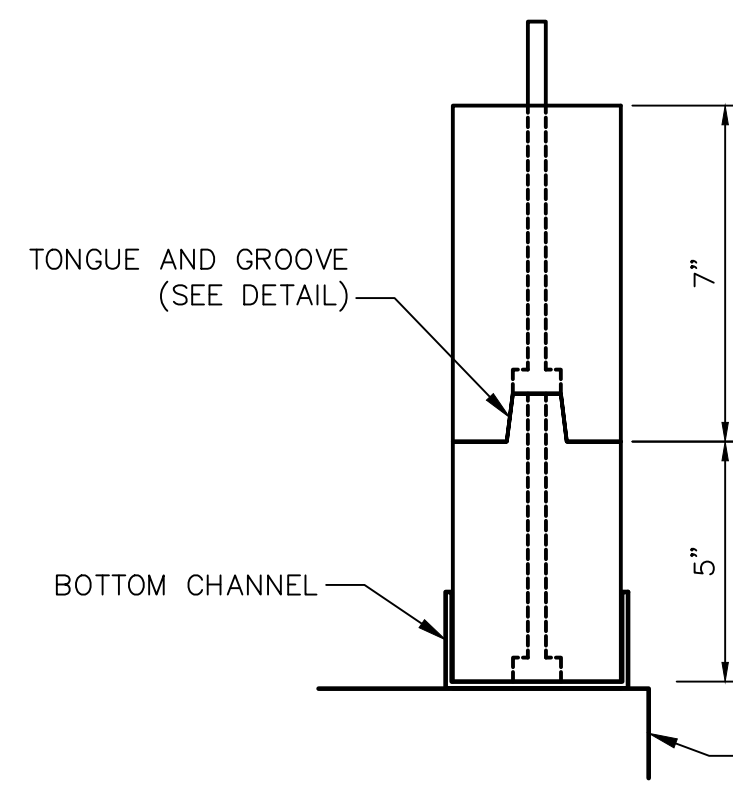


CONCRETE CRADLE REINFORCING DETAIL  
SCALE: 3/8" = 1'-0"

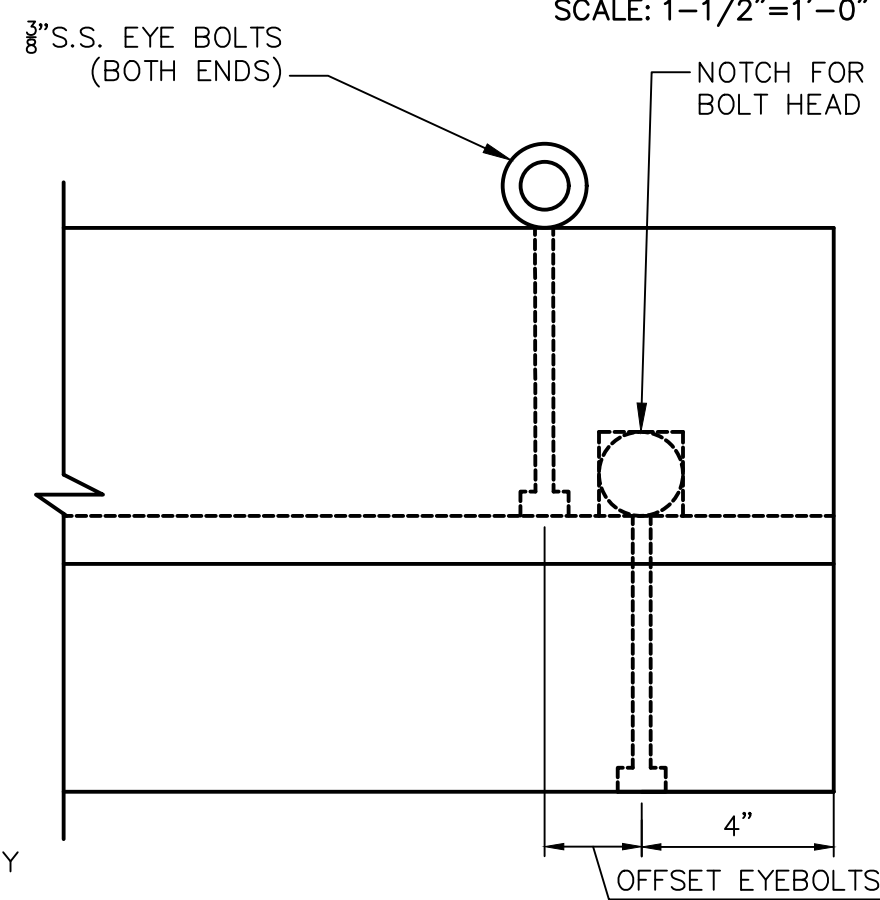
NOTE: STOP LOGS FOR LOW LEVEL OUTLET SHALL BE OF SIMILAR CONFIGURATION EXCEPT THAT THE HEIGHT OF EACH PIECE SHALL BE 4".



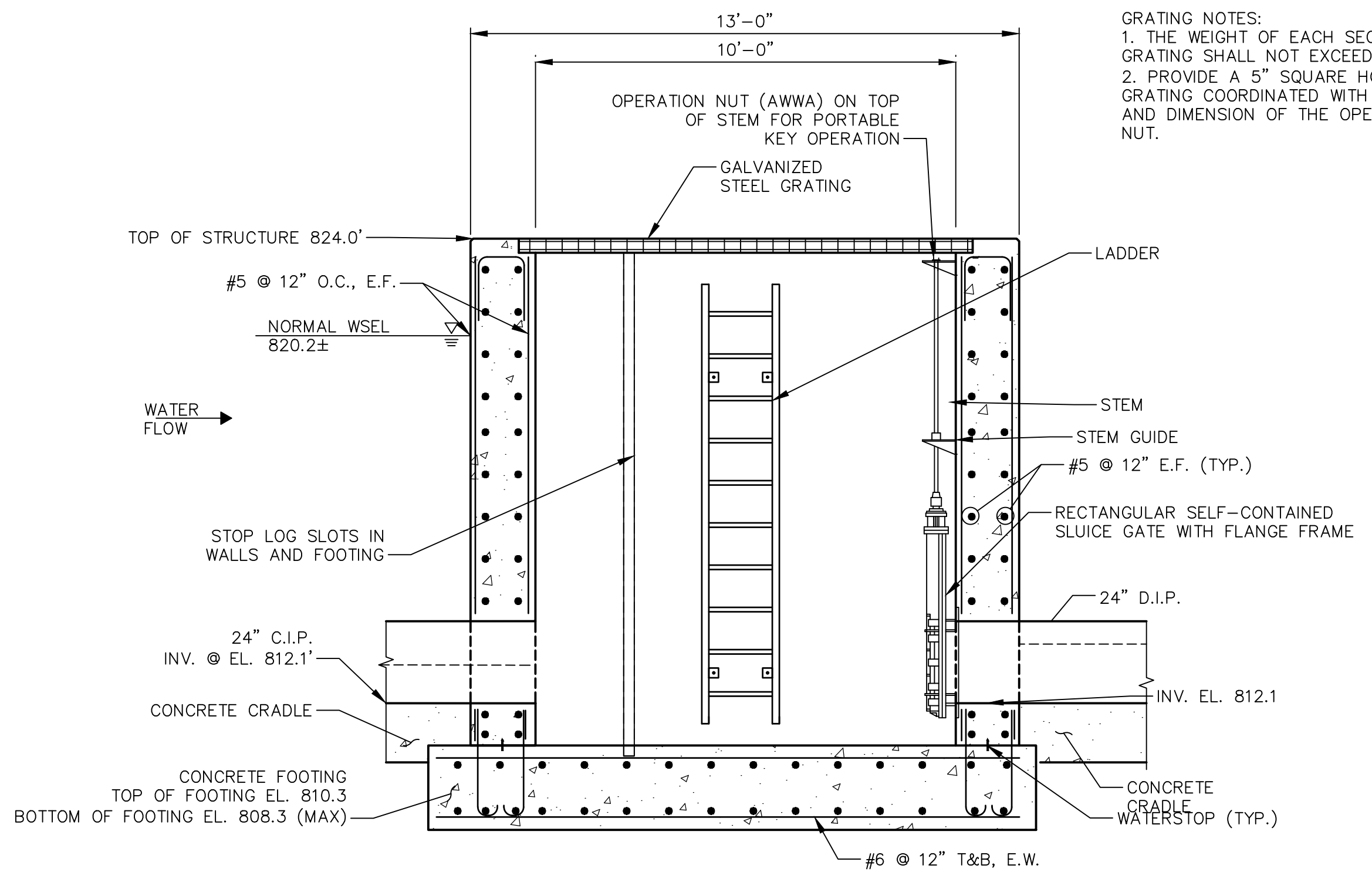
TONGUE AND GROOVE DETAIL  
SCALE: 6"=1'-0"



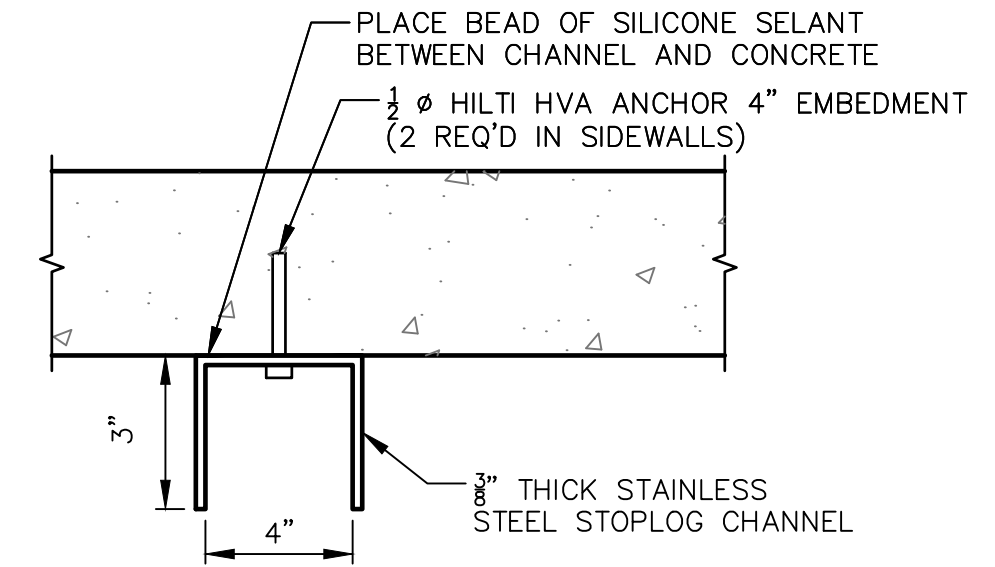
SPILLWAY WEIR BOARD SECTION AND ELEVATION  
SCALE: 3"=1'-0"



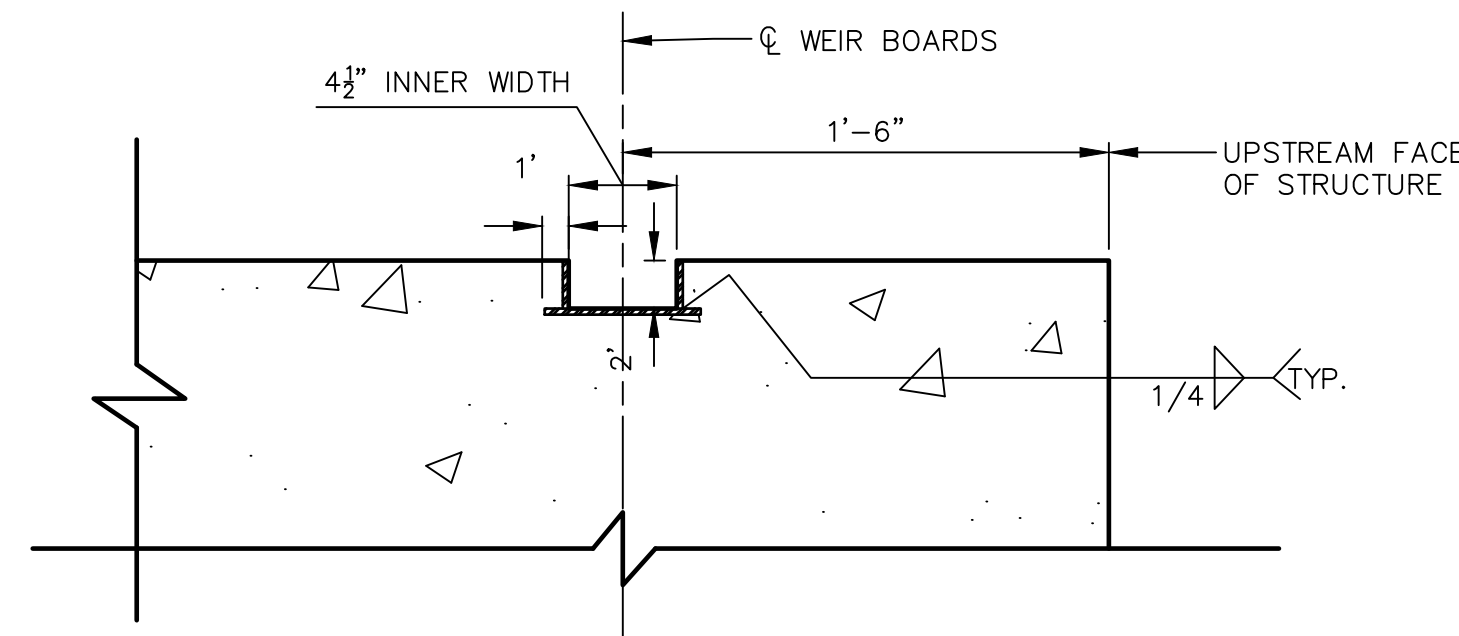
INTERMEDIATE SPILLWAY WEIR BOARD SUPPORT DETAIL  
SCALE: 1-1/2"=1'-0"



LOW-LEVEL OUTLET - GATE VALVE CHAMBER SECTION  
SCALE: 3/8"=1'-0"



SPILLWAY WEIR BOARD CHANNEL DETAIL  
SCALE: 1-1/2"=1'-0"



LOW LEVEL OUTLET STOP LOG SLOT DETAIL  
SCALE: 1-1/2"=1'-0"

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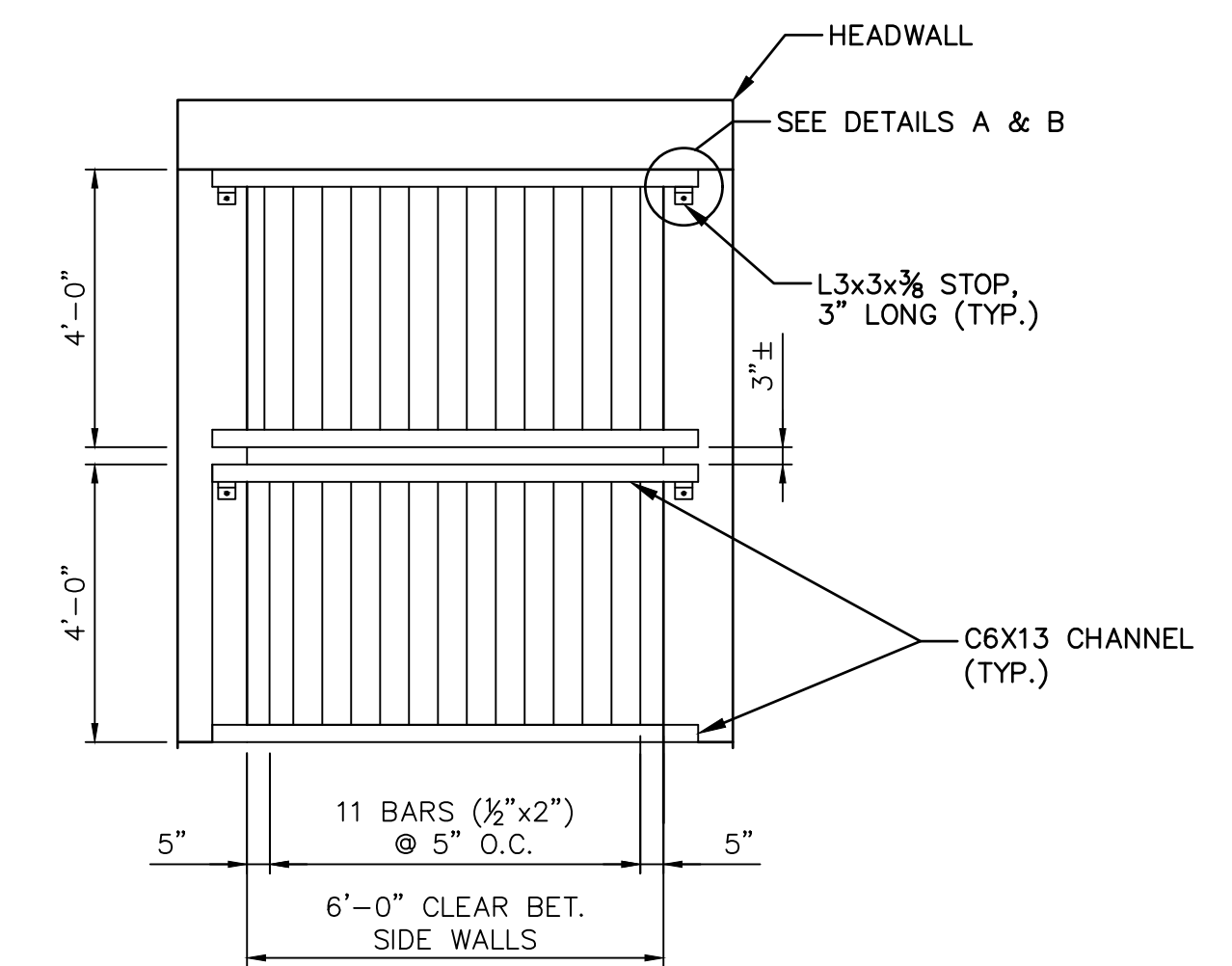
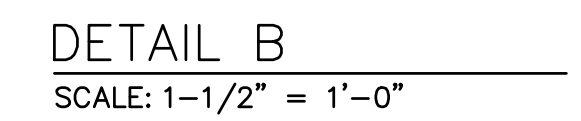
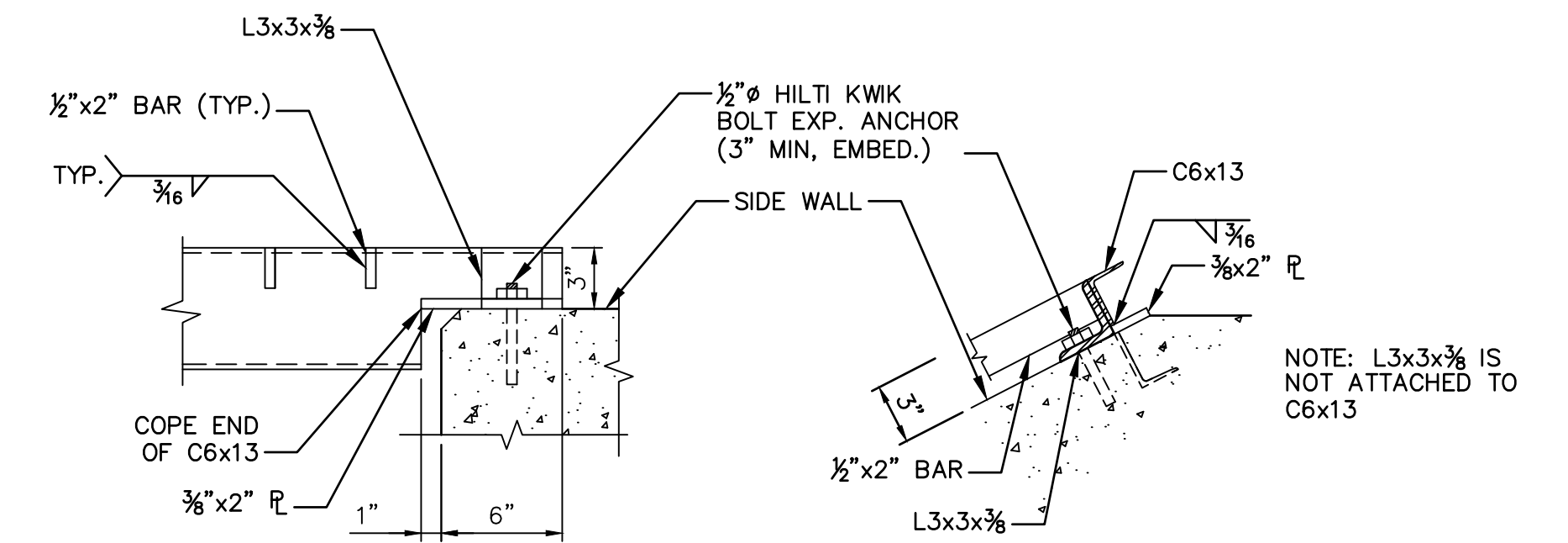
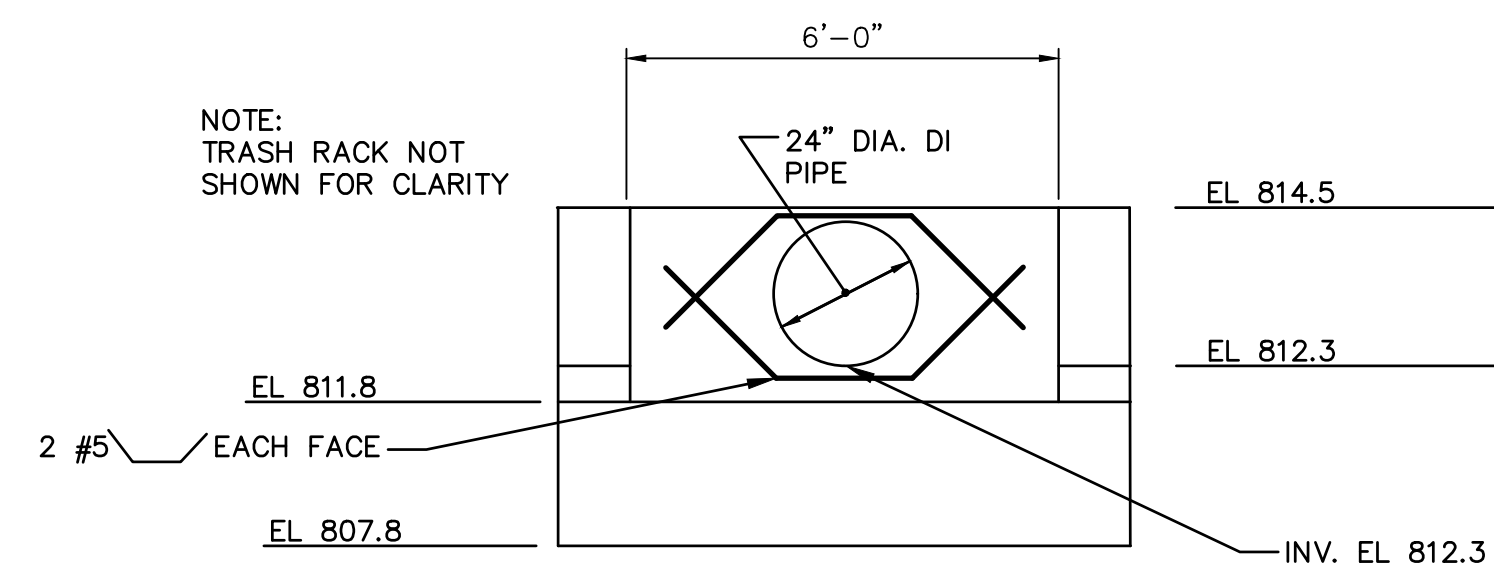
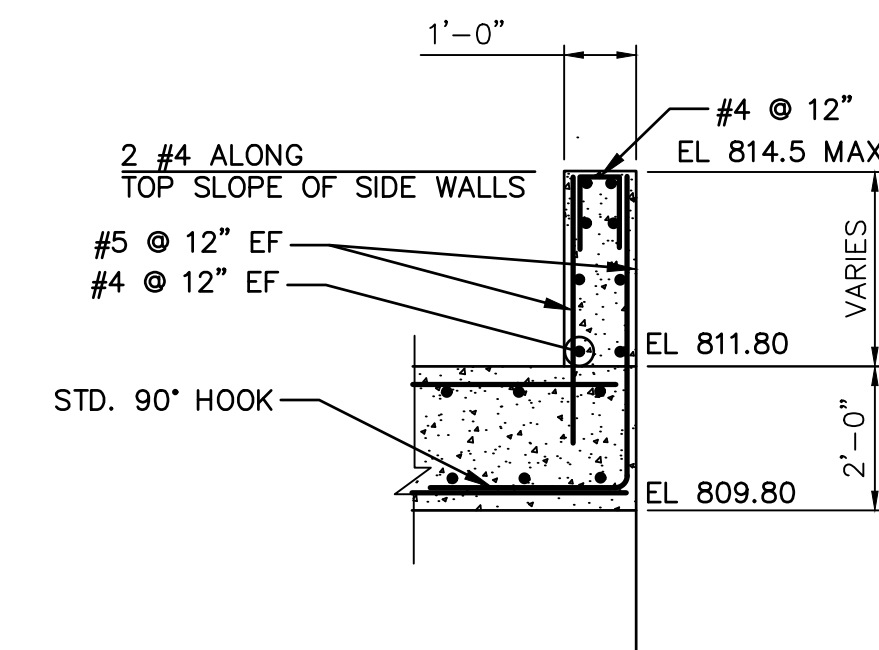
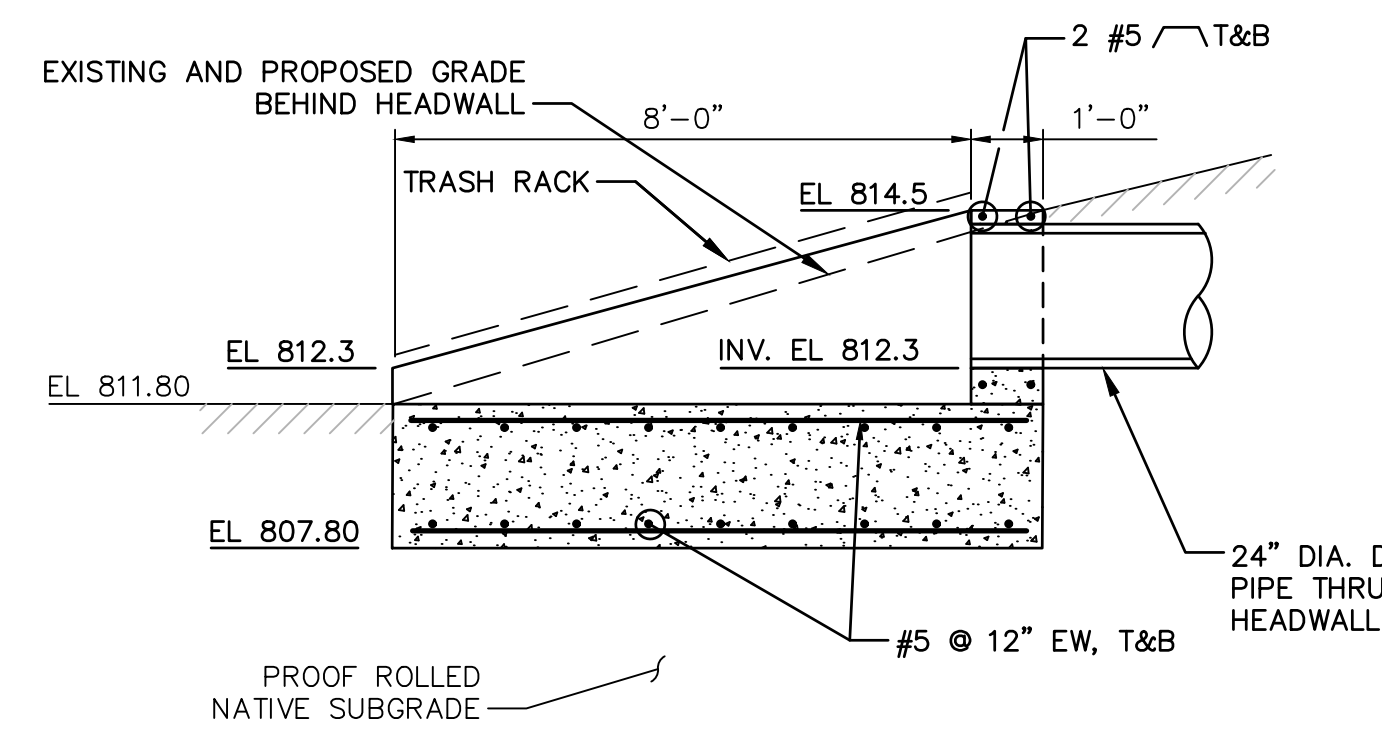
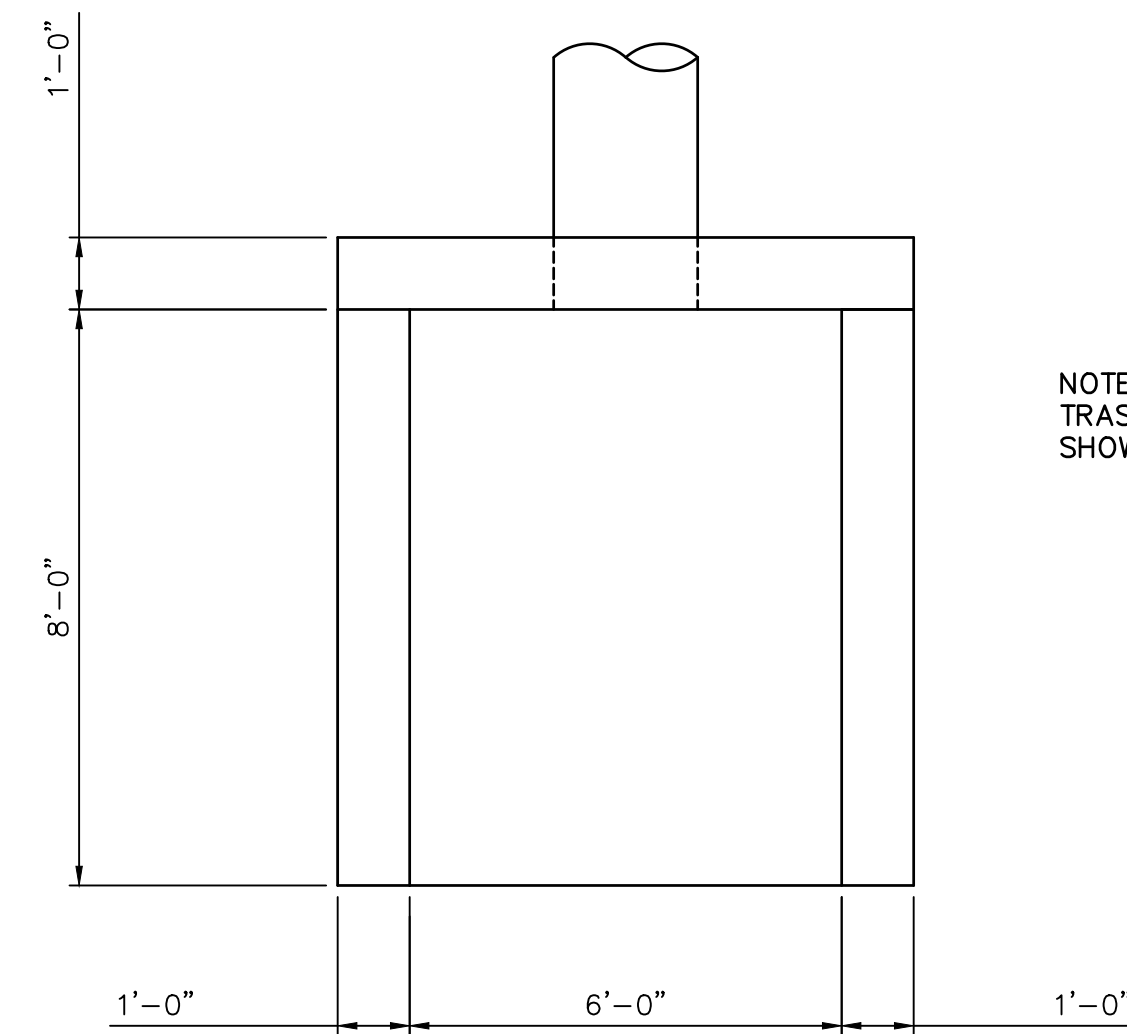
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VERT.:  
GRAPHIC SCALE

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TOWN OF LEICESTER  
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**STR-04**




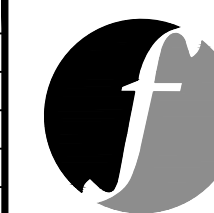
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GRAPHIC SCALE	



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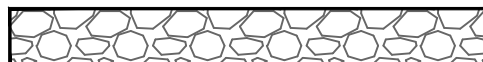
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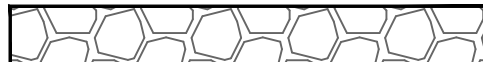
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STR-05

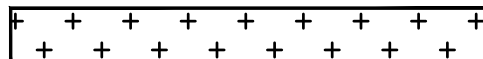
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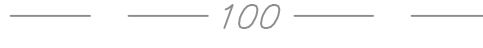
LEGEND:


- 

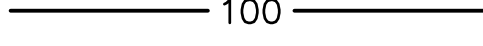
GRAVEL PARKING AREA (TYP.)
- 

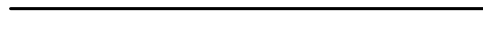
ROCKFILL ARMORING (TYP.)
- 

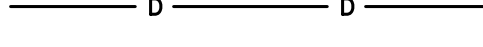
TEMPORARY IMPACT AREA
- 

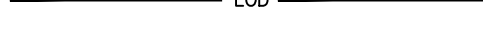
PERMANENT IMPACT AREA
- 

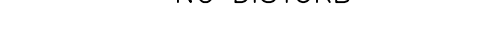
EXISTING CONTOUR (5')
- 


EXISTING CONTOUR (1')
- 

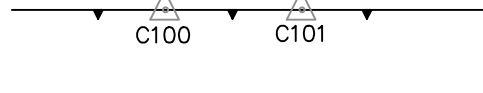
PROPOSED CONTOUR (5')
- 

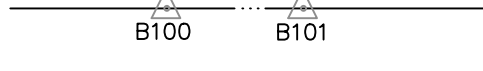
PROPOSED CONTOUR (1')
- 

TOE DRAIN (TYP.)
- 

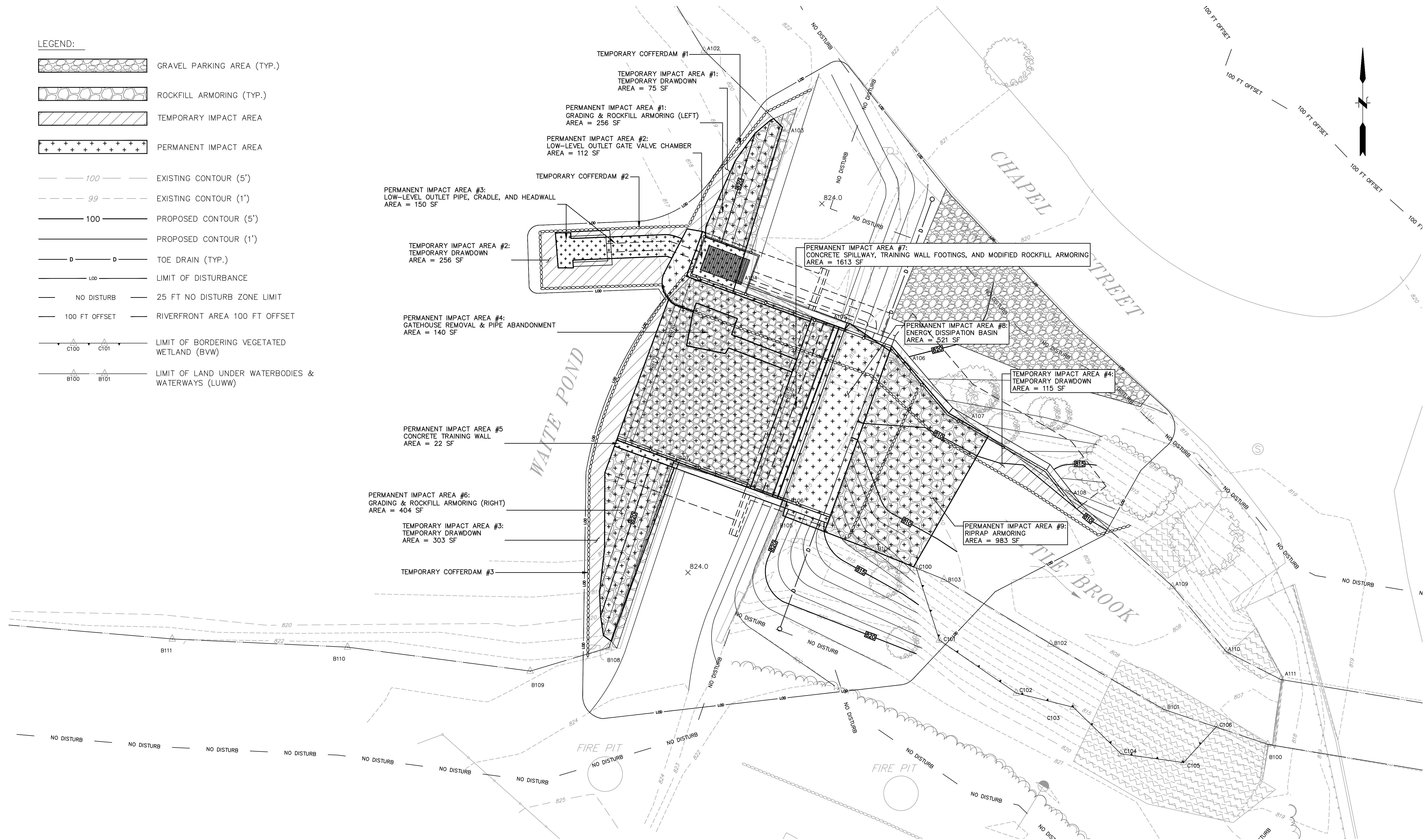
LIMIT OF DISTURBANCE
- 

25 FT NO DISTURB ZONE LIMIT
- 

RIVERFRONT AREA 100 FT OFFSET
- 

LIMIT OF BORDERING VEGETATED WETLAND (BVW)
- 

LIMIT OF LAND UNDER WATERBODIES & WATERWAYS (LUWW)



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

SEAL

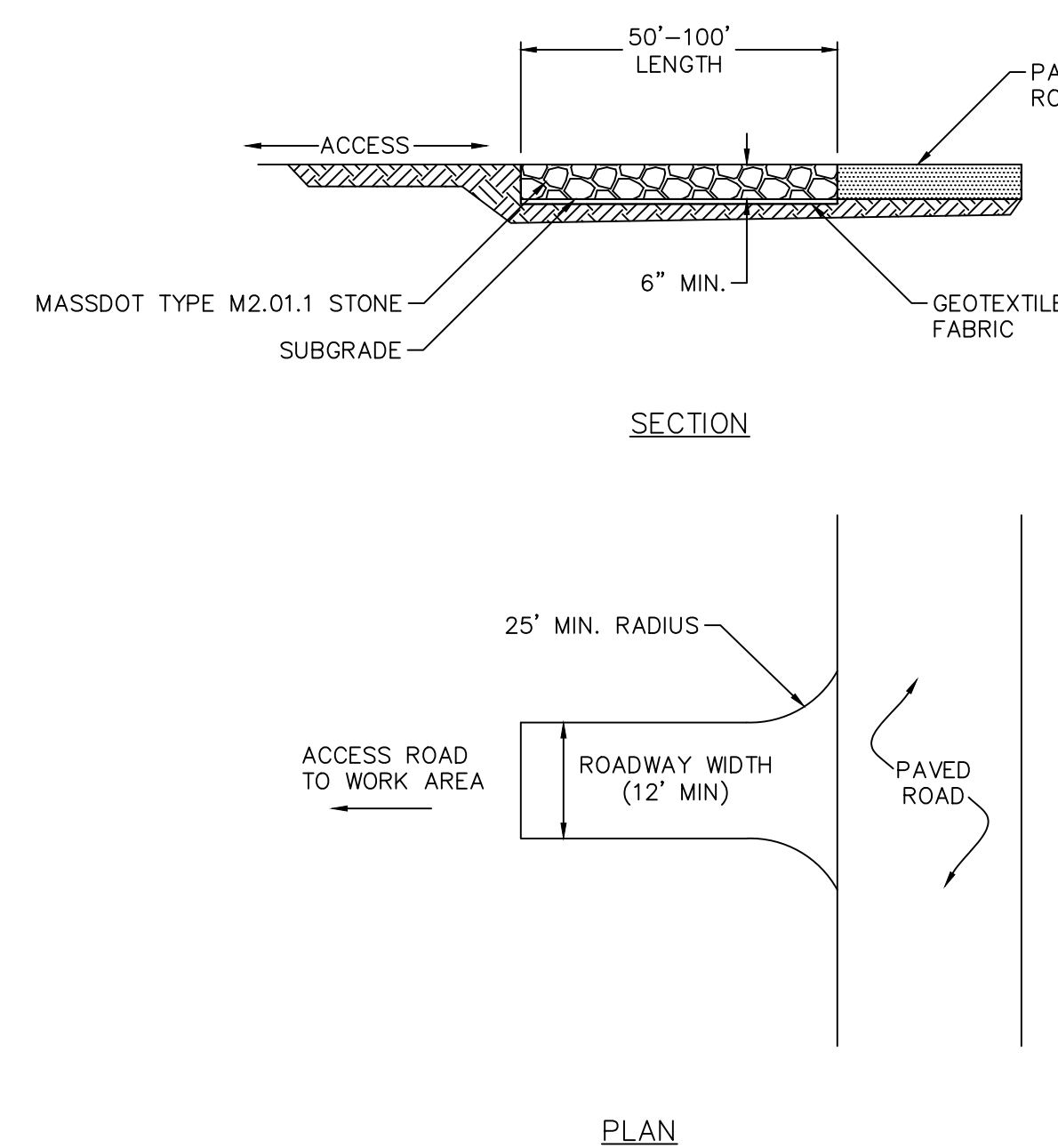
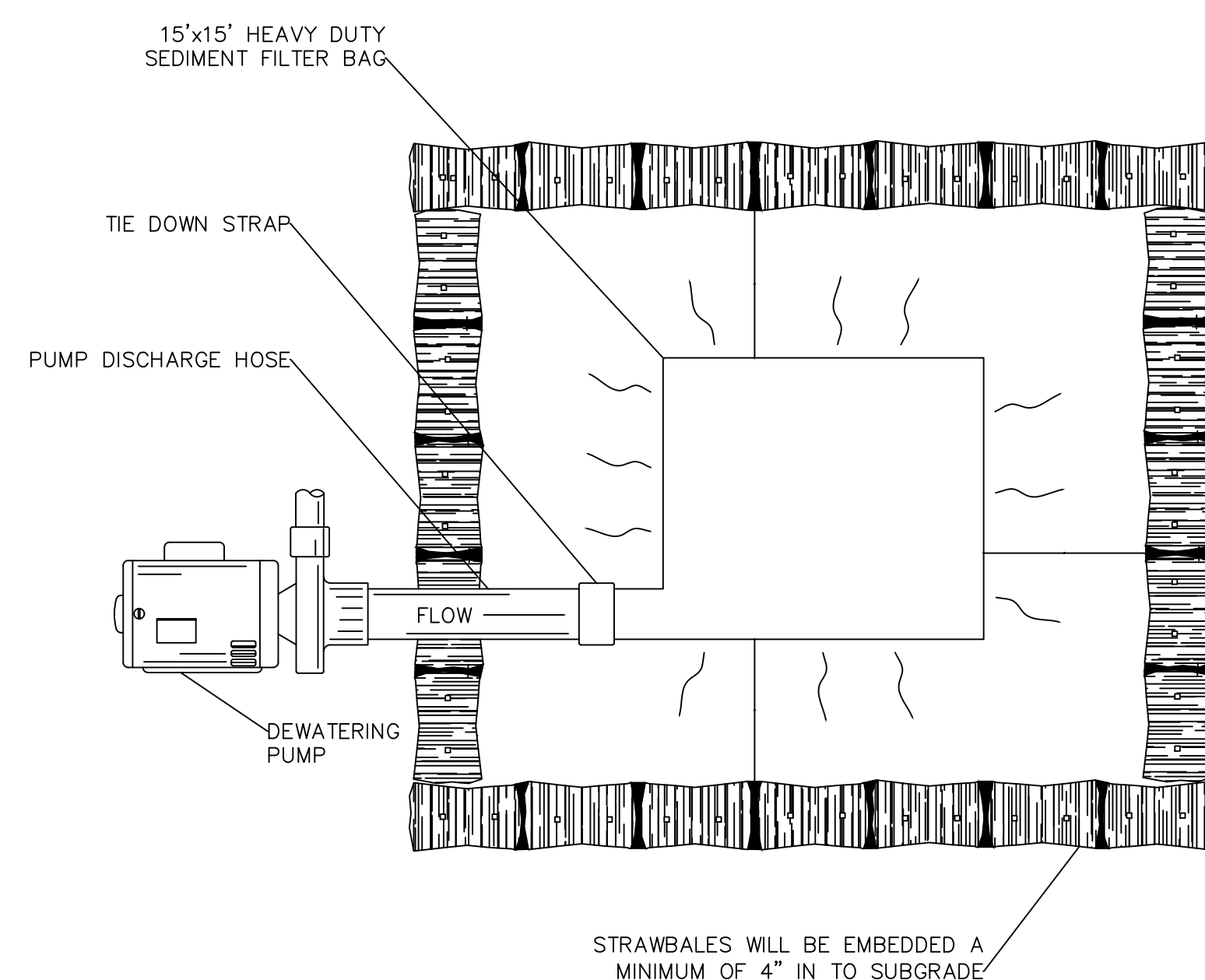
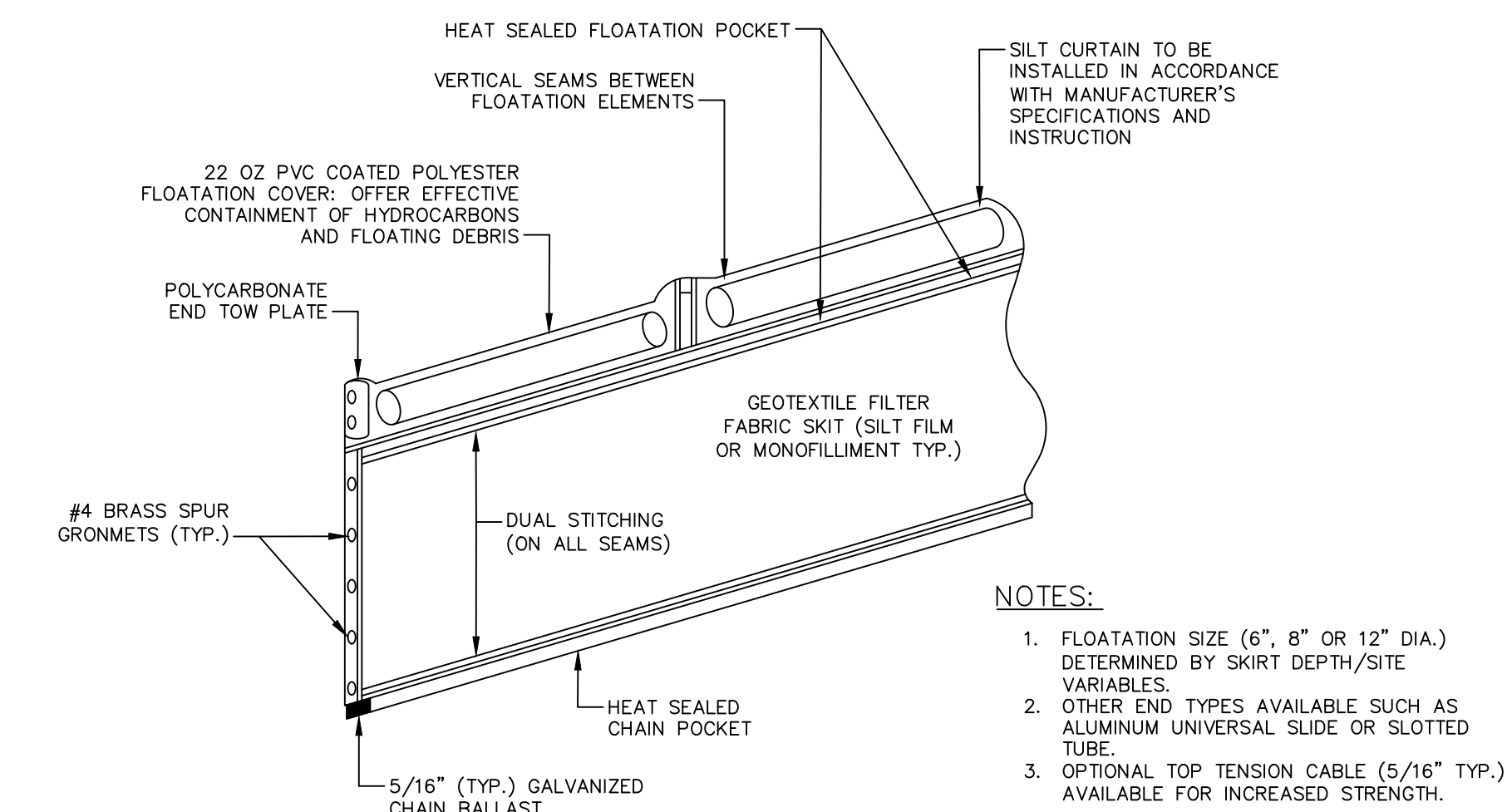
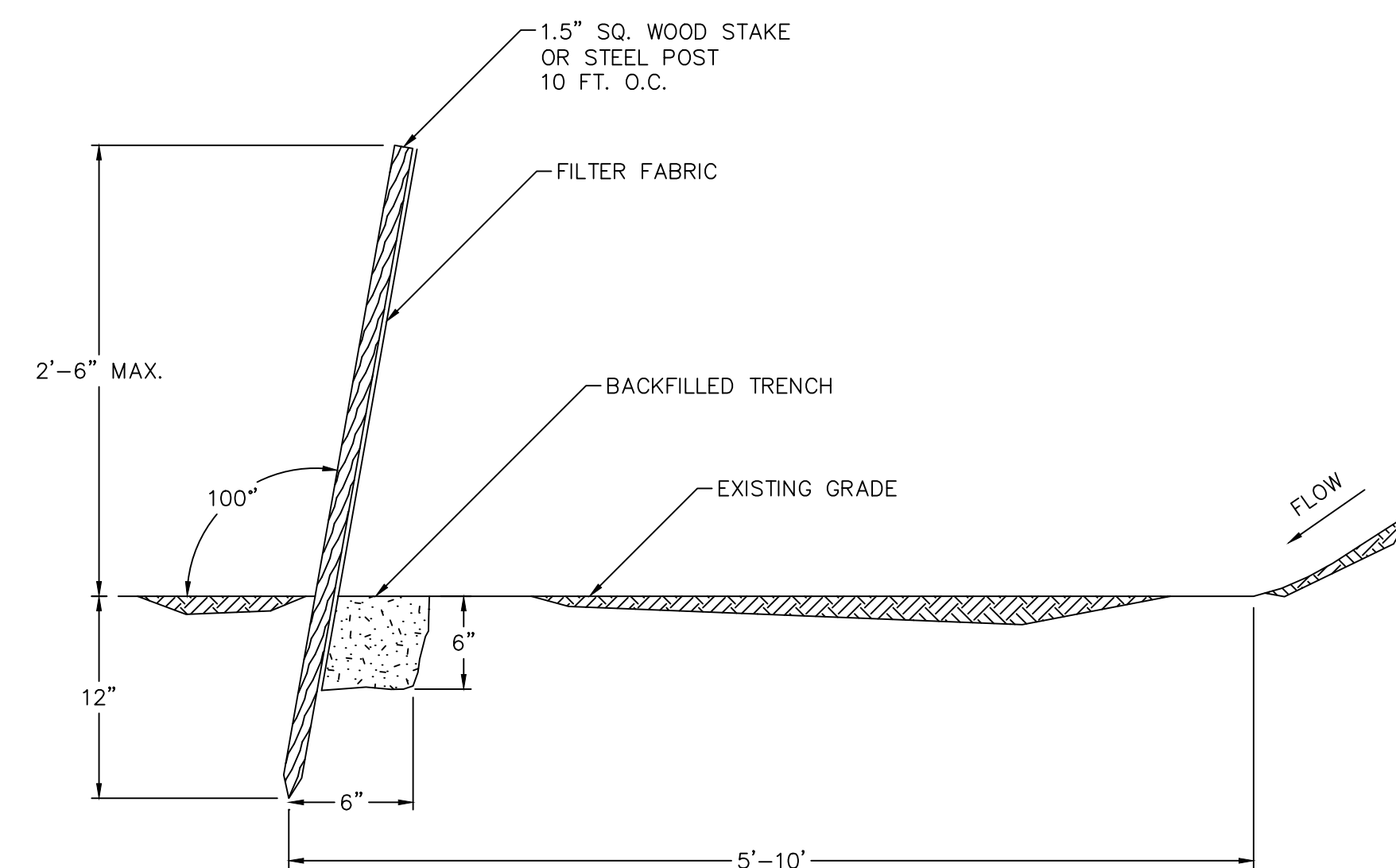
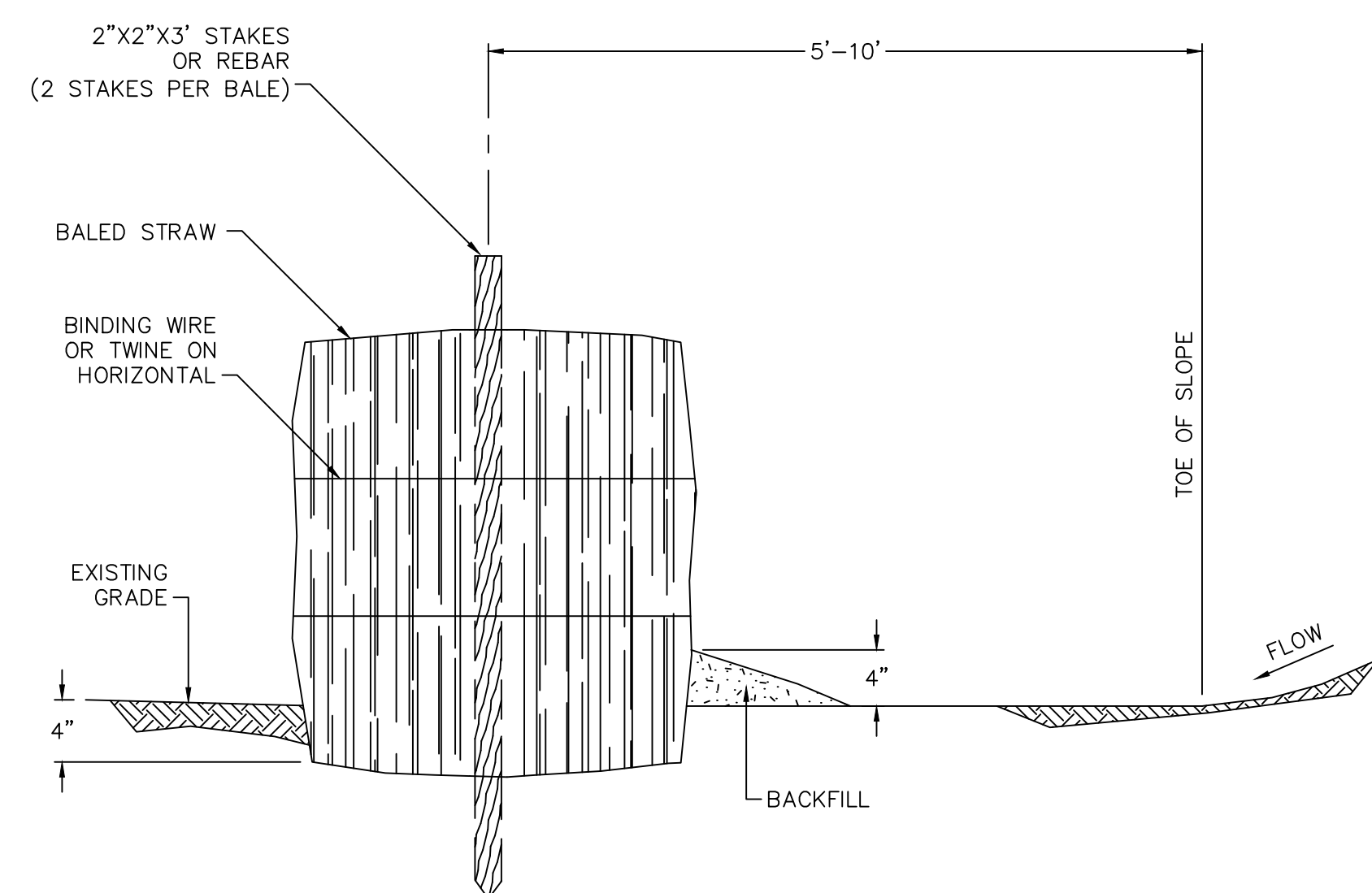
SEAL

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

**FUSS & O'NEILL**  
317 IRON HORSE WAY, SUITE 204  
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TOWN OF LEICESTER  
WETLAND IMPACT AREA PLAN  
WAITE POND DAM REPAIRS  
CHAPEL STREET, LEICESTER  
MASSACHUSETTS


PROJ. No.: 20081286.A70  
DATE: APRIL 2020  
RC-102

[illegible]

SEAL

SEAL

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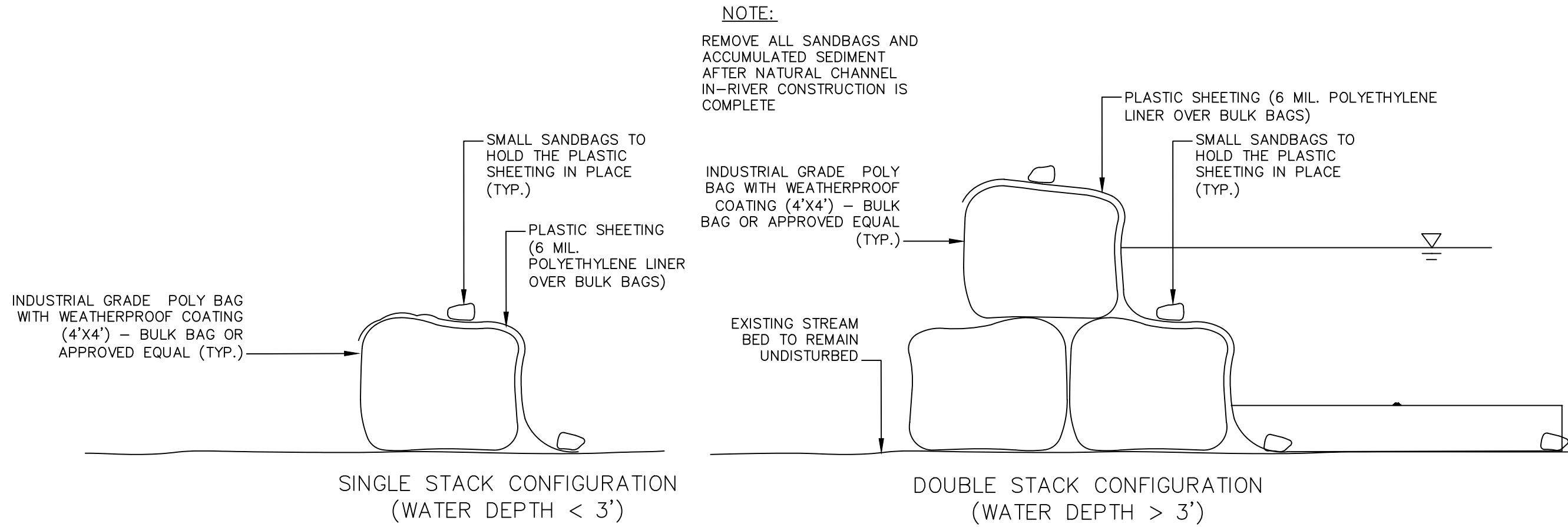
SCALE:	HORIZ.: AS SHOWN
	VERT.:
DATUM:	HORIZ.:
	VERT.:
	
GRAPHIC SCALE	



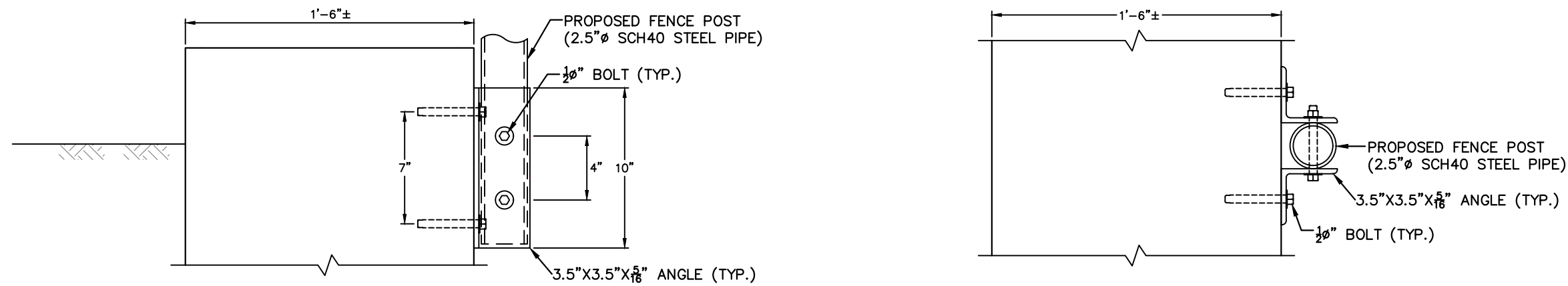
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TOWN OF LEICESTER  
EROSION & SEDIMENTATION CONTROL DETAILS  
WAITE POND DAM REPAIRS  
CHAPEL STREET, LEICESTER  
MASSACHUSETTS

PROJ. No.: 20081286.A70
DATE: APRIL 2020
CD-501

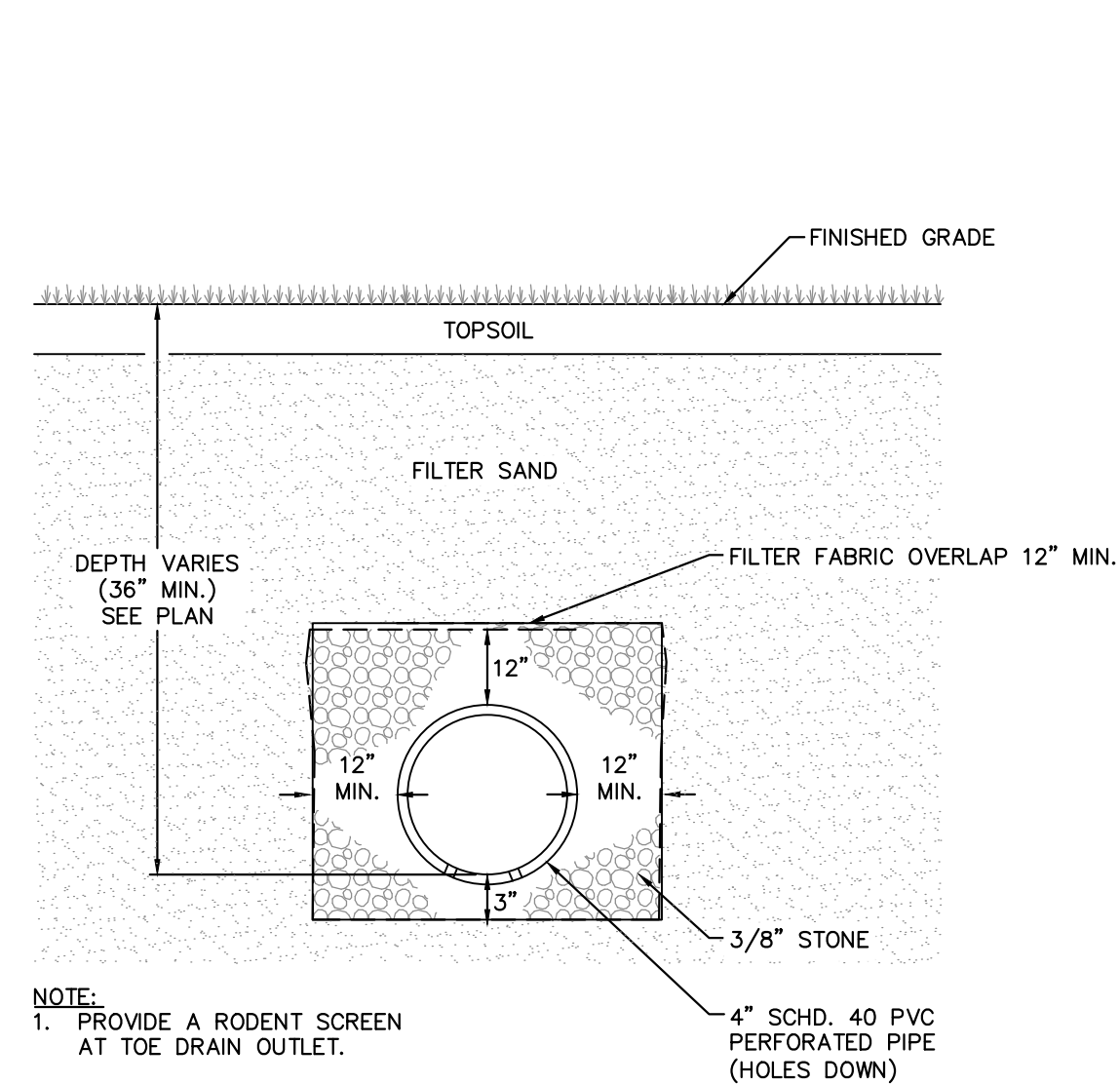


6 TEMPORARY SANDBAG COFFERDAM  
SCALE: NTS

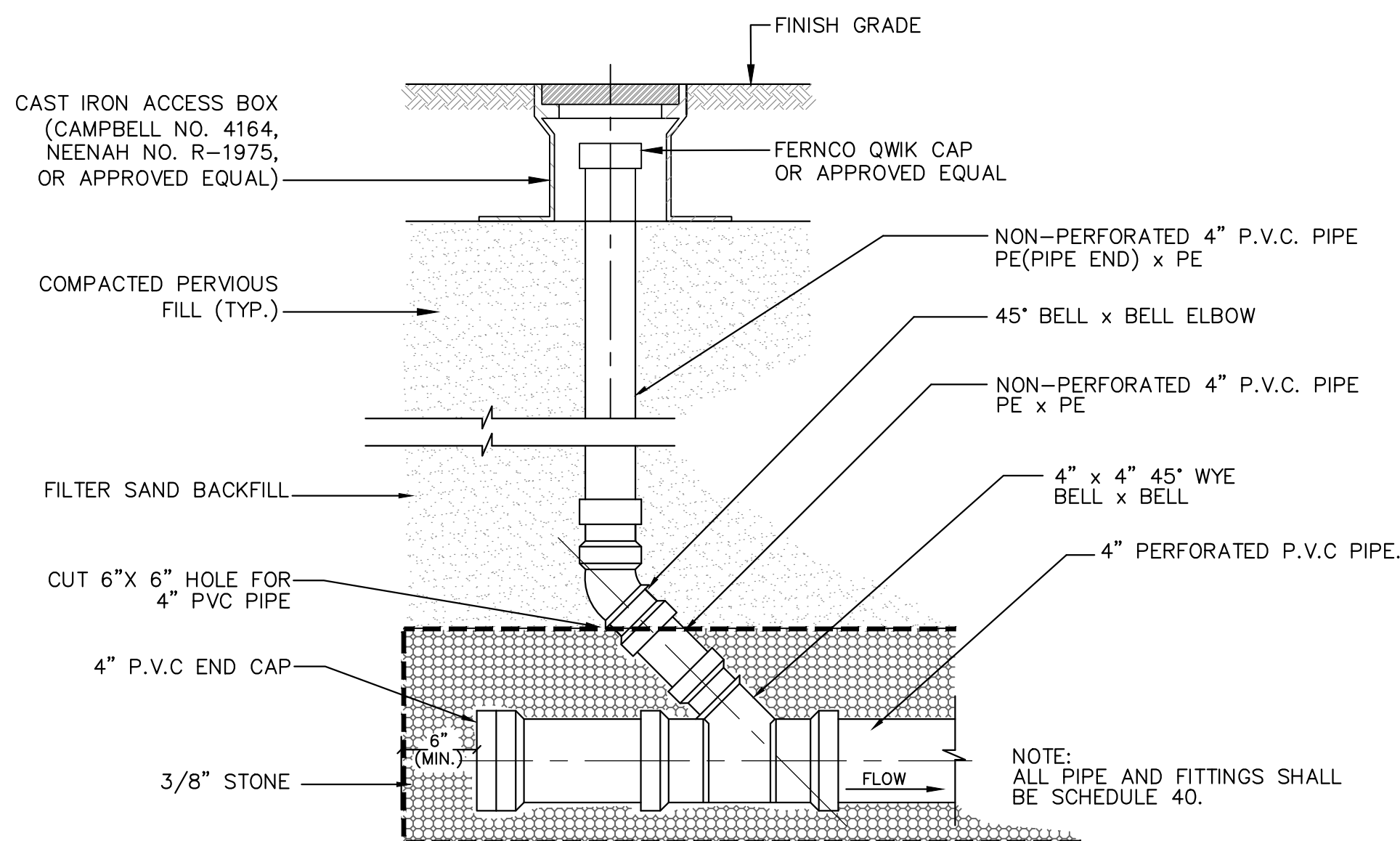


8 FENCE SUPPORT PROFILE  
SCALE: 1-1/2" = 1'-0"

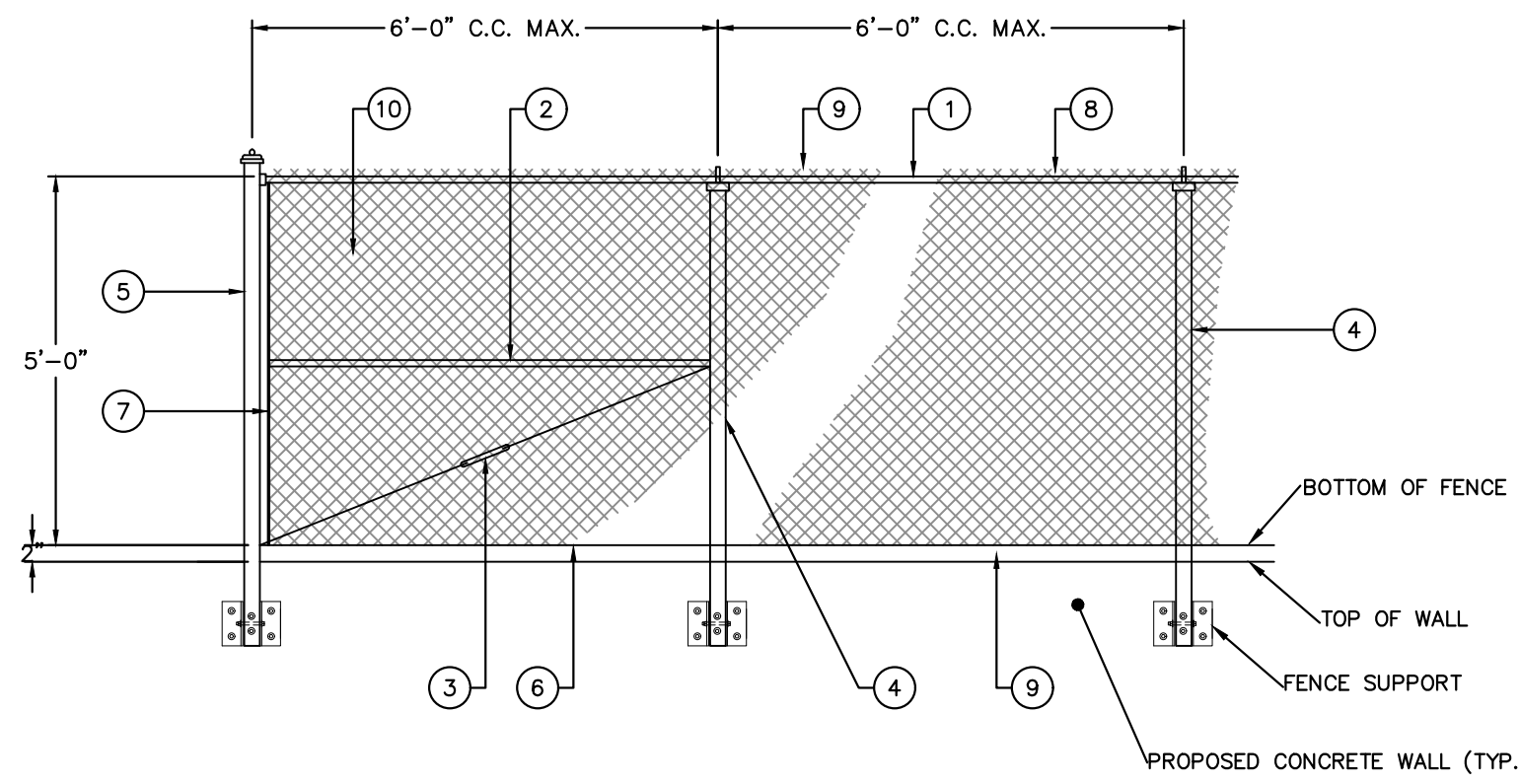
9 FENCE SUPPORT SECTION  
SCALE: 1-1/2" = 1'-0"



TOE DRAIN  
NOT TO SCALE



TOE DRAIN CLEANOUT  
NOT TO SCALE



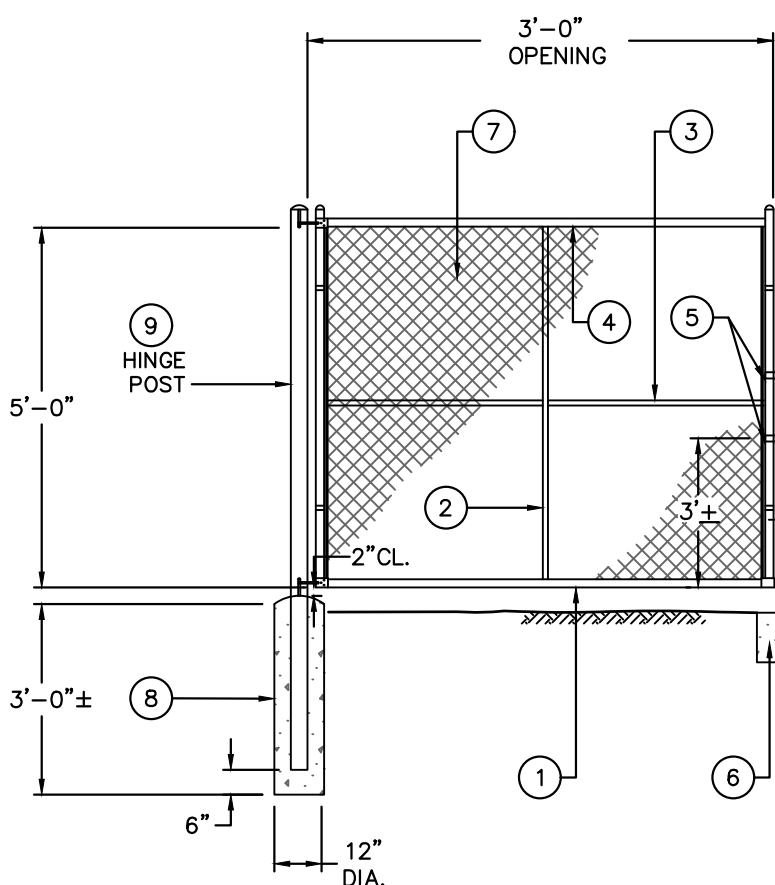
NOTES

- FENCE SUPPORT DESIGN TO BE CHECKED BY AN ENGINEER.
- STRAIGHT RUNS BETWEEN BRACED POSTS SHALL NOT EXCEED 500 FT.
- FENCE DETAILS ARE INTENDED AS A GUIDE ONLY. ALL FENCE MATERIALS AND CONSTRUCTION METHODS SHALL BE APPROVED BY THE ENGINEER AND FENCE MANUFACTURER.

CHAIN LINK FENCE LEGEND

- 1 5/8" O.D. TOP RAIL ATTACH FABRIC WITH 9 GAUGE WIRE CLIP EVERY 24"
  - 2 1 5/8" O.D. BRACE FOR RAIL FENCES OVER 6 FEET HIGH AND ALL FENCES WITHOUT TOP RAIL
  - 3 5/16" TRUSS ROD AND TURNBUCKLE
  - 4 INTERMEDIATE POST
  - 5 END OR CORNER POST
  - 6 6 GAUGE BOTTOM TENSION WIRE ATTACH TO FABRIC WITH HOG RING AT 24" C.C.
  - 7 TENSION ROD ATTACHED TO END OR CORNER POST
  - 8 6 GAUGE TENSION WIRE WHEN TOP RAIL IS NOT USED.
  - 9 FABRIC SELVAGE: UNDER 6 FEET SHALL BE KNUCKLED TOP AND BOTTOM 6 FEET AND OVER SHALL BE KNUCKLED BOTTOM AND TWISTED ON THE TOP RECREATIONAL FENCING, REGARDLESS OF HEIGHT, SHALL BE KNUCKLED TOP AND BOTTOM
  - 10 9 GAUGE 2" WIRE MESH FABRIC (COMMERCIAL) BLACK VINYL COATED.
- | FENCE HEIGHT    | SQUARE POST | ROUND POST |
|-----------------|-------------|------------|
| 6 FEET AND LESS | 1 7/8"      | 2"         |
| OVER 6 FEET     | 2 1/4"      | 2 1/2"     |
- ATTACH TO C.L. FABRIC WITH CLIPS EVERY 15"
- | FENCE HEIGHT    | SQUARE POST | ROUND POST |
|-----------------|-------------|------------|
| 6 FEET AND LESS | 2"          | 2 1/2"     |
| OVER 6 FEET     | 2 1/2"      | 3"         |

7 CHAIN LINK FENCE  
SCALE: NTS

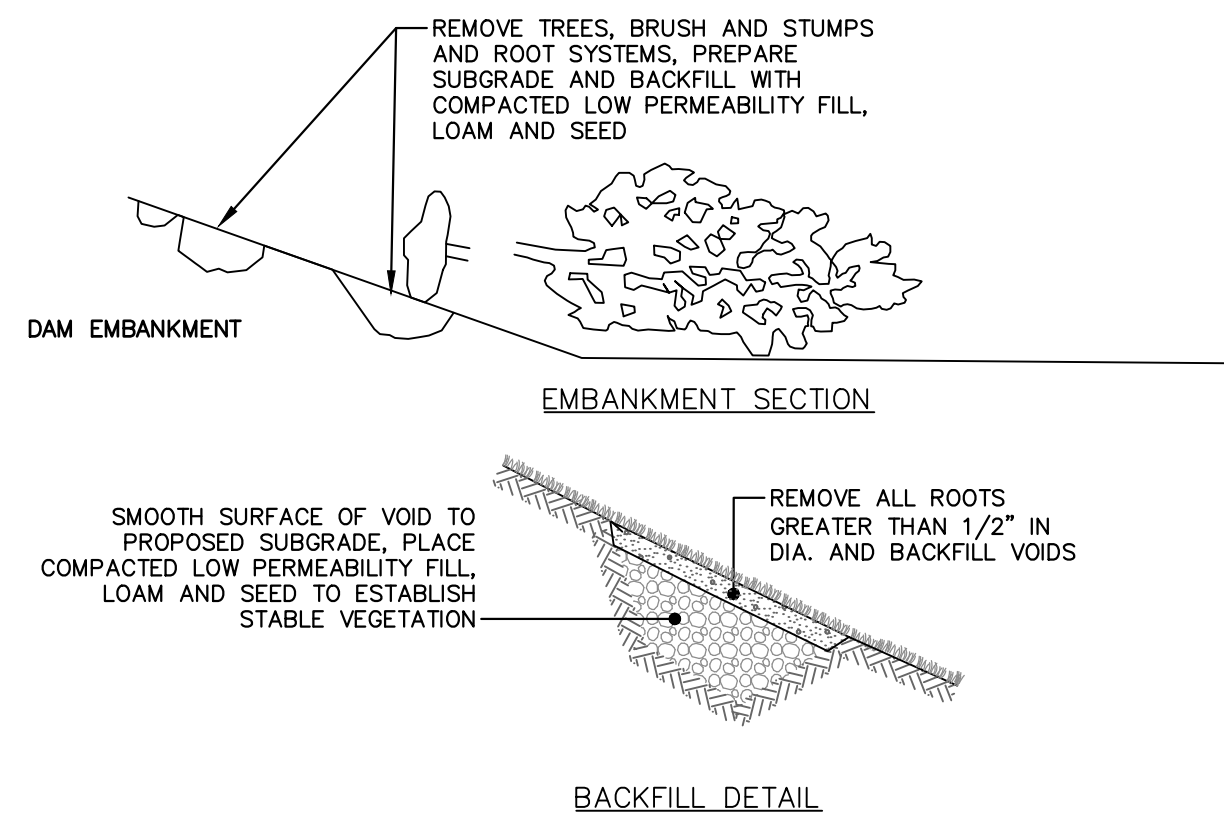


CHAIN LINK SWING GATE LEGEND

- 2" SQUARE FRAME WELDED TO FORM FOUR SIDES OF LEAF
- 1 1/4" SQUARE UPRIGHT BRACING WELDED TO FRAME
- 1 1/4" SQUARE HORIZONTAL BRACING WELDED TO FRAME
- TENSION BAR ATTACHED TO FRAME ON ALL FOUR SIDES WITH HOOK BOLTS
- PADLOCK AND LATCH DEVICE
- 12" DIA. x 12" DEEP CONC. COLLAR WITH STEEL PIPE FOR SET PIN. COLLAR AND PIPE SET FLUSH WITH GROUND SURFACE. PIPE TO DRAIN INTO GRAVEL BASE.
- 9 GAUGE 2" WIRE MESH FABRIC (COMMERCIAL) BLACK VINYL COATED.
- HINGE POST FOOTING SHALL BE 3000 PSI CONCRETE. DIAMETER SHALL BE 4 TIMES POST WIDTH (MIN.)
- SEE GATE TABLE

GATE TABLE	
OPENING	HINGE POST
3'-0"	2 1/2" SQUARE
8'-0" - 12'-0"	2 1/2" SQUARE
26'-0" - 36'-0"	6" SQUARE
38'-0" - 40'-0"	8" SQUARE

10 SINGLE-LEAF CHAIN LINK SWING GATE  
SCALE: NTS



NOTES

- IN AREAS INDICATED ON THE PLANS, REMOVE ALL TREES, BRUSH, AND WOODY VEGETATION. REMOVE STUMPS AND ROOTS SYSTEMS ORIGINATING FROM ALL TREES AND WOODY VEGETATION.
- ALL CLEARED AND GRUBBED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND MUST BE LAWFULLY DISPOSED OF OFF-SITE. UNDER NO CIRCUMSTANCES WILL ONOSITE CHIPPING OR BURNING BE PERMITTED.
- BACKFILL ALL DEPRESSIONS CAUSED BY CLEARING AND GRUBBING OPERATIONS, INCLUDING EQUIPMENT RUTS, WITH LOW PERMEABILITY FILL.
- CONTRACTOR SHALL NOT REMOVE STUMPS AND ROOT SYSTEMS BY GRABBING HOLD OF STUMP END AND PULLING OUT OF EMBANKMENT.

TREE AND STUMP REMOVAL  
NOT TO SCALE

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

SEAL

SEAL

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

**f**  
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TOWN OF LEICESTER  
CIVIL DETAILS  
WAITE POND DAM REPAIRS  
CHAPEL STREET, LEICESTER  
MASSACHUSETTS

PROJ. No.: 20081286.A70  
DATE: APRIL 2020  
**CD-502**