

CITY OF ALEXANDRIA CAMPBELL COUNTY, KENTUCKY ALEXANDRIA LOWER DAM IMPROVEMENTS

CITY OF ALEXANDRIA OFFICIALS

MAYOR
ANDY SCHABELL

CITY CLERK
STEPHANIE TARTER

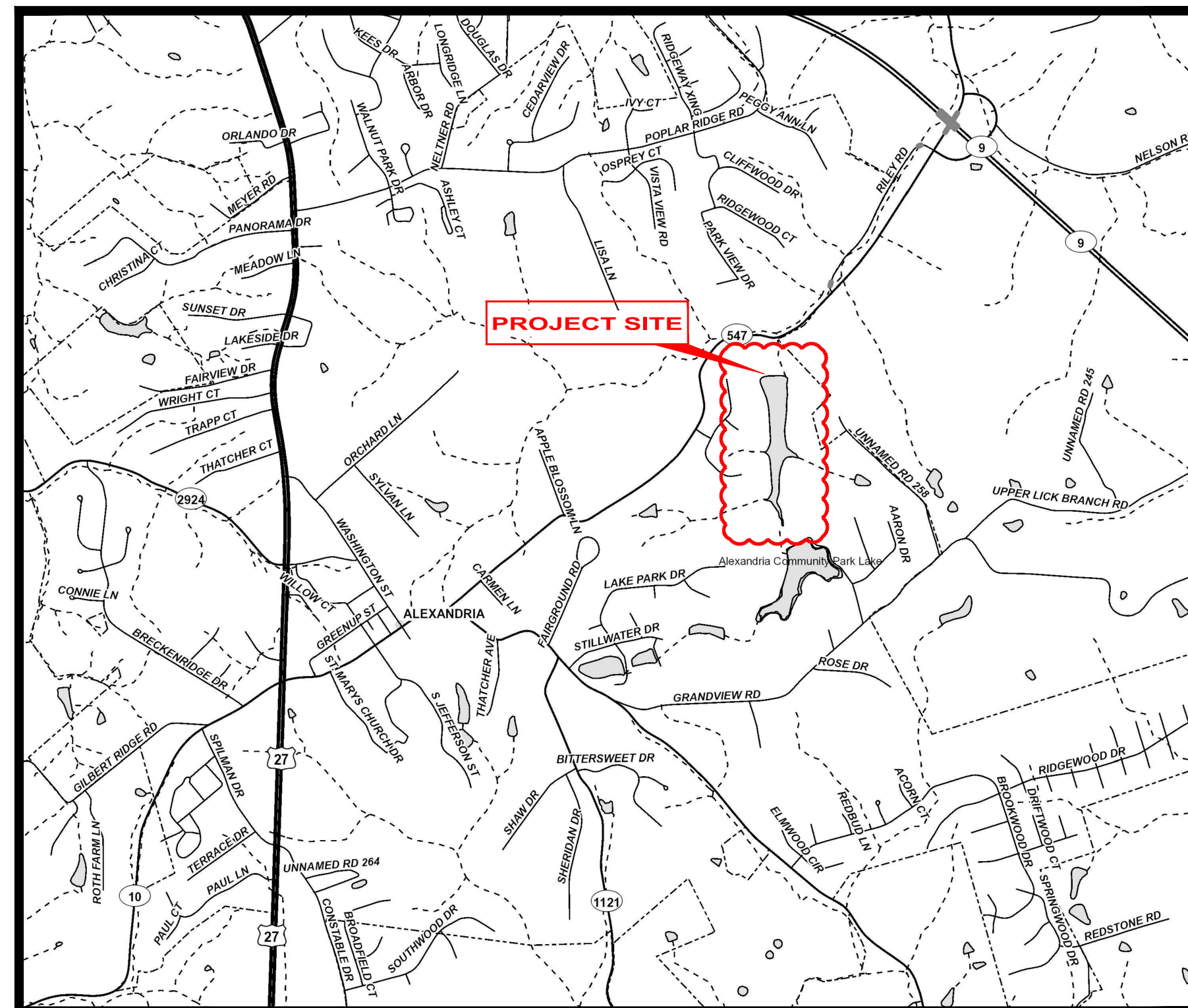
CITY COUNCIL MEMBERS

JOE ANDERSON
TOM BALDRIDGE
STACEY GRAUS
ROBERT STRONG
KYLE SPARKS
SUSAN VANLANDINGHAM

CITY ATTORNEY
MIKE DUNCAN

PUBLIC WORKS DIRECTOR
DOUG DEJACO

190970



VICINITY MAP

K.T.C SPECIFICATIONS

THE LATEST STANDARD SPECIFICATIONS OF THE KENTUCKY TRANSPORTATION CABINET, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS THERETO AND CITY OF FORT WRIGHT ENGINEERING DEPARTMENT REQUIREMENTS SHALL GOVERN THIS IMPROVEMENT.

SOURCE OF BOUNDARY INFORMATION

THE BOUNDARY INFORMATION SHOWN ON THESE PLANS IS BASED UPON PLANNING DEVELOPMENT SERVICE OF NORTHERN KENTUCKY G.I.S. MAPPING AND DOES NOT REPRESENT AN ACTUAL FIELD BOUNDARY SURVEY BY CT CONSULTANTS, INC.

SOURCE OF TOPOGRAPHIC INFORMATION

THE TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS IS BASED UPON A COMBINATION OF FIELD SURVEY BY CT CONSULTANTS IN 2020, FIELD SURVEY BY CLS IN 2008, AND PLANNING DEVELOPMENT SERVICE OF NORTHERN KENTUCKY G.I.S. MAPPING

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SYMBOL LEGEND

	EXISTING GAS LINE
	EXISTING GAS SERVICE
	EXISTING ELECTRIC (UNDERGROUND / OVERHEAD)
	EXISTING CABLE (UNDERGROUND / OVERHEAD)
	EXISTING TELEPHONE (UNDERGROUND / OVERHEAD)
	EXISTING WATER MAIN
	EXISTING WATER SERVICE
	EXISTING STORM SEWER
	EXISTING ROOF DRAIN
	EXISTING SANITARY SEWER
	EXISTING SANITARY FORCE MAIN
	EXISTING FIBER OPTICS
	EXISTING FENCE
	EXISTING CONTOURS (MAJOR)
	EXISTING CONTOURS (MINOR)
	EXISTING RIGHT OF WAY
	EXISTING PROPERTY LINE
	EXISTING EASEMENT
	EXISTING GUARDRAIL
	EXISTING TREE LINE
	PROPOSED GAS LINE
	PROPOSED GAS SERVICE
	PROPOSED ELECTRIC (UNDERGROUND / OVERHEAD)
	PROPOSED CABLE (UNDERGROUND / OVERHEAD)
	PROPOSED TELEPHONE (UNDERGROUND / OVERHEAD)
	PROPOSED WATER MAIN
	PROPOSED WATER SERVICE
	PROPOSED STORM SEWER
	PROPOSED UNDERDRAIN
	PROPOSED UNDERDRAIN / DOWNSPOUT COLLECTOR COMBO
	PROPOSED SANITARY SEWER
	PROPOSED SANITARY FORCE MAIN
	PROPOSED FIBER OPTICS
	PROPOSED FENCE
	PROPOSED CONTOURS (MAJOR)
	PROPOSED CONTOURS (MINOR)
	PROPOSED RIGHT OF WAY
	PROPOSED PROPERTY LINE
	PROPOSED EASEMENT
	PROPOSED GUARDRAIL
	PROPOSED TREE LINE / CLEARING LIMITS
	PROPOSED DISTURBED LIMITS

	EXISTING FLAGPOLE		PROPOSED FLAGPOLE
	EXISTING MAILBOX		PROPOSED MAILBOX
	EXISTING SIGN		PROPOSED SIGN
	EXISTING CABLE PEDESTAL		PROPOSED CABLE PEDESTAL
	EXISTING ELECTRIC PEDESTAL		PROPOSED ELECTRIC PEDESTAL
	EXISTING PULL BOX		PROPOSED PULL BOX
	EXISTING GROUND LIGHT		PROPOSED GROUND LIGHT
	EXISTING LIGHT POLE		PROPOSED LIGHT POLE
	EXISTING ELECTRIC METER		PROPOSED ELECTRIC METER
	EXISTING ELECTRIC MANHOLE		PROPOSED ELECTRIC MANHOLE
	EXISTING GAS METER		PROPOSED GAS METER
	EXISTING GAS VALVE		PROPOSED GAS VALVE
	EXISTING GAS BOX		PROPOSED GAS BOX
	EXISTING UTILITY POLE		PROPOSED UTILITY POLE
	EXISTING GUY WIRE / ANCHOR		PROPOSED GUY WIRE / ANCHOR
	EXISTING SANITARY MANHOLE		PROPOSED SANITARY MANHOLE
	EXISTING SANITARY CLEANOUT		PROPOSED SANITARY CLEANOUT
	EXISTING STORM MANHOLE		PROPOSED STORM MANHOLE
	EXISTING SINGLE / DOUBLE CURB INLET		PROPOSED SINGLE / DOUBLE CURB INLET
	EXISTING CATCH BASIN		PROPOSED CATCH BASIN
	EXISTING STORM CLEANOUT		PROPOSED STORM CLEANOUT
	EXISTING TELEPHONE MANHOLE		PROPOSED TELEPHONE MANHOLE
	EXISTING TELEPHONE PEDESTAL		PROPOSED TELEPHONE PEDESTAL
	EXISTING FIRE HYDRANT		PROPOSED FIRE HYDRANT
	EXISTING WATER METER		PROPOSED WATER METER
	EXISTING WATER VALVE		PROPOSED WATER VALVE
	EXISTING BUSHES / TREES		REMOVE EXISTING BUSH / TREE
	EXISTING SOIL BORING		

HATCH LEGEND

	PROPOSED STONE ACCESS DRIVE
	8" OF NO 2 STONE
	4" OF CRUSHED STONE BASE
	SPILLWAY CHANNEL PROTECTION
	FLEXAMAT STANDARD
	REESTABLISH BOTTOM OF BASIN / REMOVE ACCUMULATION OF SEDIMENT

EROSION CONTROL LEGEND

	INLET PROTECTION (SEE DETAIL)
	ROCK CHECK DAM (SEE DETAIL)
	SILT FENCE (SEE DETAIL)

GENERAL NOTES

- ALL CONSTRUCTION SHALL CONFORM TO THESE PLANS AND SPECIFICATIONS. THE LATEST EDITION OF THE CITY OF ALEXANDRIA SUBDIVISION REGULATIONS AND THE KENTUCKY DEPARTMENT OF HIGHWAYS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- EXPANSION MATERIAL SHALL BE 1" THICK FLEXIBLE FOAM MATERIAL, SUCH AS CERAMAR BY W.R. MEADOWS OR APPROVED EQUAL. INSTALLED IN AREAS OF CONCRETE WALK, DRIVES OR CURB/GUTTER ONLY AT THE FOLLOWING:
 - AT ALL FIXED OBJECTS (I.E. UTILITY COVERS, VALVES, MANHOLES, ETC.)
 - AT ALL RIGID STRUCTURES (I.E. DRIVES, CURBS, STEPS, ETC.) PAYMENT FOR THIS ITEM AND ZIP STRIPS INCLUDED IN THE PERTINENT CONCRETE PAVEMENT UNIT PRICE.
 - AT ALL STREET INTERSECTIONS AT THE POINT OF CURVATURE OF THE TURNING RADII ENTERING THE INTERSECTION.
 - NO CONCRETE SHALL BE LEFT ABOVE THE EXPANSION MATERIAL OR ACROSS THE JOINT AT ANY POINT. ANY CONCRETE SPANNING THE ENDS OF THE JOINT NEXT TO THE FORMS SHALL BE CAREFULLY CUT AWAY AFTER THE FORMS ARE REMOVED. BEFORE THE PAVEMENT IS OPENED TO TRAFFIC, THE GROOVE ABOVE THE EXPANSION JOINT MATERIAL SHALL BE CLEANED AND SEALED WITH JOINT SEALING MATERIAL.
- WORK SHALL BE SCHEDULED DURING DRIER WEATHER MONTHS AND SHALL BE SUBSTANTIALLY COMPLETE NO LATER THAN AUGUST 31, 2024.
- DOWNSPOUT AND UNDERDRAIN CONSTRUCTION SHALL MEET THESE AND THE LATEST SPECIFICATION OF THE CITY OF ALEXANDRIA SUBDIVISION REGULATIONS, SD-1 REGULATIONS AND STANDARD DRAWINGS, AND DETAILS SHOWN ON THIS PLAN. BEDDING, BACKFILLING, JOINTS, EXCAVATION AND INSTALLATION SHALL BE INCLUDED IN THE COST PER FOOT OF PIPE. STORM SEWER, DOWNSPOUT AND UNDERDRAIN PIPE MATERIAL SHALL HAVE A MANNINGS "N" VALUE OF 0.13 OR LESS (UNLESS OTHERWISE SHOWN) AND BE RIGID / SMOOTH INTERIOR WALLED PVC SDR-35 PIPE, RIBBED PVC PIPE, A-2000 PVC PIPE, UNLESS OTHERWISE SHOWN.
- ALL DISTURBED AREAS ARE TO BE RESTORED (SEEDED AND MULCHED) BY THE CONTRACTOR AND SHALL PROCEED WITH JOB PROGRESSION. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REMOVING ANY EXCESS MATERIALS AT THE SITE AND MAINTAINING ALL SEEDED AND MULCHED AREAS UNTIL PROJECT COMPLETION AND FINAL INSPECTION PER KDOT SPEC. 212. A RESIDENTIAL YARD SHALL BE RESTORED WITHIN TWENTY-ONE (21) DAYS AFTER CONSTRUCTION.
- ALL APPLICABLE RECOMMENDATIONS IN KENTUCKY'S BEST MANAGEMENT PRACTICES MANUAL SHALL BE FOLLOWED BY THE CONTRACTOR, INCLUDING SEEDING OF DISTURBED GROUND.
- RIGHT-OF-WAY AND PROPERTY LINES SHOWN ARE PLOTTED FROM PLANNING DEVELOPMENT SERVICE OF NORTHERN KENTUCKY G.I.S. MAPPING AND ARE APPROXIMATE AND NOT THE RESULT OF A FIELD BOUNDARY SURVEY.
- THE CONTRACTOR SHALL LIMIT THEIR WORK AREA TO THE EASEMENTS AND RIGHTS-OF-WAY SHOWN ON THESE PLANS UNLESS WRITTEN PERMISSION IS GIVEN BY THE PROPERTY OWNER AND APPROVED BY THE CITY OF ALEXANDRIA.
- ALL OSHA, STATE AND LOCAL SAFETY REGULATIONS SHALL BE FOLLOWED DURING CONSTRUCTION.
- THIS PLAN SHOWS THE APPROXIMATE LOCATION OF UNDERGROUND UTILITIES (GAS, WATER, STORM SEWER, SANITARY SEWER, TELEPHONE, ELECTRIC, ETC.). THE PREPARER DOES NOT GUARANTEE THEIR ACCURACY OR CORRECTNESS. THE INFORMATION PROVIDED SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE UTILITY AS WELL AS THE SERVICE LATERALS AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL PRACTICE CARE DURING THE GRADING AND TRENCH EXCAVATION AND SHALL BE RESPONSIBLE FOR REPLACING ANY SERVICES THAT ARE DAMAGED DURING CONSTRUCTION AT THEIR EXPENSE.
- RELOCATION OR REINSTALLATION OF EXISTING MAIL BOXES, FENCES, PRIVATE LANDSCAPE LIGHTS, PRIVATE SIGNS, STREET SIGNS, RESTORATION OF LANDSCAPING AND TREATMENT OF EXISTING WALLS WHERE A PORTION HAS BEEN REMOVED SHALL BE INCIDENTAL TO CLEARING AND GRUBBING.
- TOPS OF EXISTING AND PROPOSED CASTING ELEVATIONS ARE SUBJECT TO FINAL ADJUSTMENTS AS APPROVED BY THE ENGINEER AND REQUIREMENTS OF UTILITY OWNER. THIS WORK WILL BE INCIDENTAL TO THE CONTRACT.
- 36" AND SMALLER STORM SEWER PIPE MATERIAL SHALL BE POLYVINYL CHLORIDE (PVC) SMOOTH WALL PIPE PER ASTM D3034. POLYVINYL CHLORIDE (PVC) PROFILE WALL PER ASTM F794 OR F949, OR HIGH DENSITY POLYETHYLENE (HDPE) PER AASHTO M294. JOINTS FOR PVC PIPE SHALL BE GASKET, BELL AND SPIGOT. PUSH ON TYPES PER ASTM D3212. HDPE PIPE SHALL BE JOINED USING AN INLINE BELL AND SPIGOT JOINT PER AASHTO M252. AASHTO M294 OR ASTM F2306. ALL JOINTS SHALL BE SOIL TIGHT. ALL GASKETS SHALL MEET ASTM F477.
- FOURTY-EIGHT (48) HOURS BEFORE EXCAVATION IS TO COMMENCE, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES: THE KENTUCKY UTILITY PROTECTION SERVICE AND ALL OTHER UTILITIES THAT MAY HAVE UNDERGROUND UTILITIES INVOLVING THIS PROJECT AND ARE NON-MEMBERS OF KENTUCKY UNDERGROUND PROTECTION.
- NO CONSTRUCTION SHALL COMMENCE UNTIL ALL CAMPBELL COUNTY AND THE CITY OF ALEXANDRIA PERMITS HAVE BEEN ISSUED AS REQUIRED.
- THE CONTRACTOR SHALL COORDINATE ALL WORK WITHIN THE PUBLIC RIGHT OF WAY WITH THE CITY OF ALEXANDRIA. LOCAL TRAFFIC MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION UNLESS OTHERWISE NOTED IN THESE PLANS.
- CONTRACTOR SHALL BE REQUIRED TO MAINTAIN SANITARY SEWER AND STORM SEWER FLOW THROUGH THE PROJECT. FOR THE DURATION OF CONSTRUCTION. ALL COST FOR THE ABOVE SHALL BE INCIDENTAL TO THE CONTRACT.
- ADDITIONAL BMP'S AND EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED AS DEEMED NECESSARY. ALL COST FOR ABOVE SHALL BE INCLUDED IN LUMP SUM BID FOR EROSION CONTROL AND WATER POLLUTION CONTROL.

MAINTENANCE OF TRAFFIC NOTES



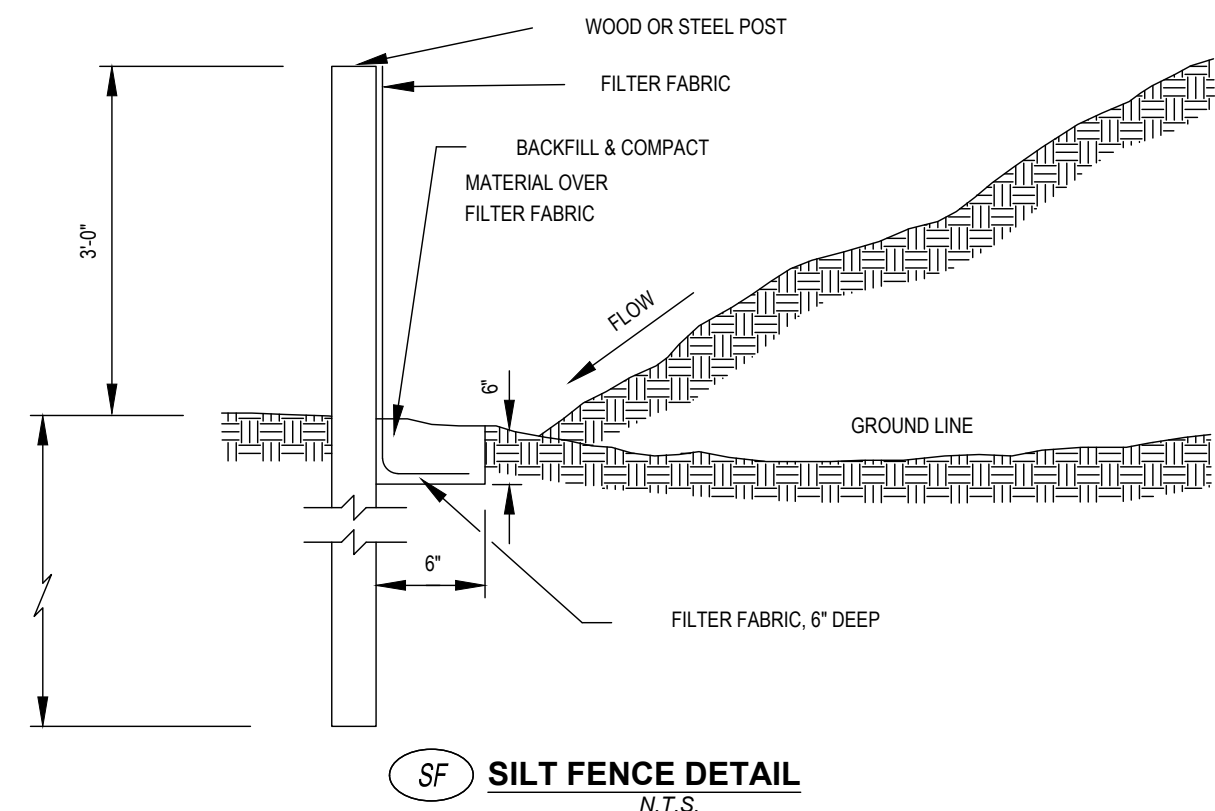
NO	REVISION	DATE

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DATE:	02/01/2024
DESIGNED BY:	RSEI
DRAWN BY:	RSEI
CHECKED BY:	MBRU

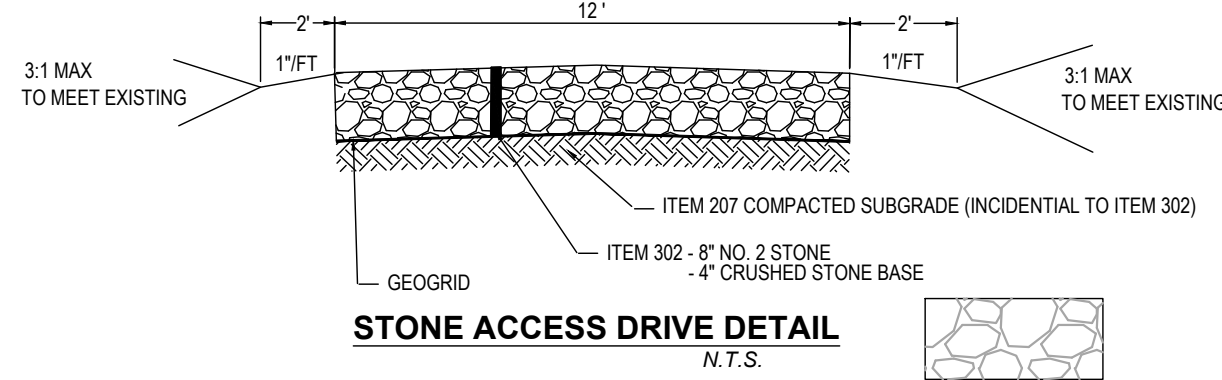
**ALEXANDRIA LOWER DAM
IMPROVEMENTS
CITY OF ALEXANDRIA
CAMPBELL COUNTY, KENTUCKY**

TITLE SHEET

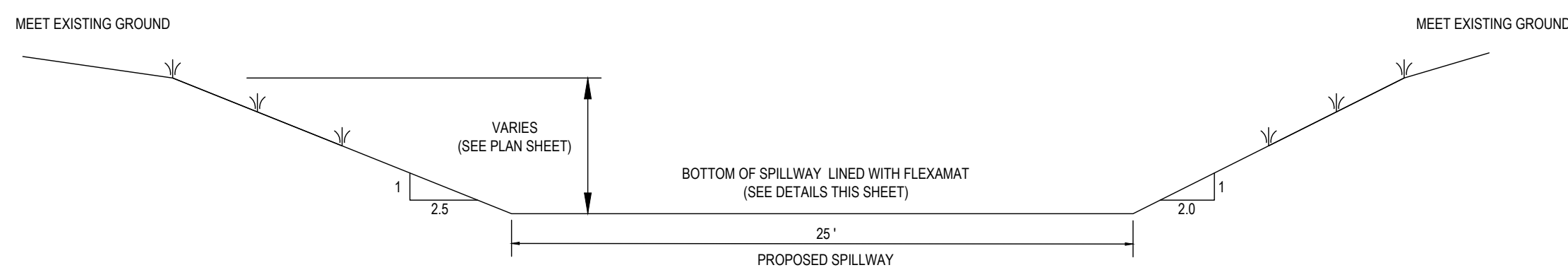
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DRAWING NAME	
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SHEET	OF
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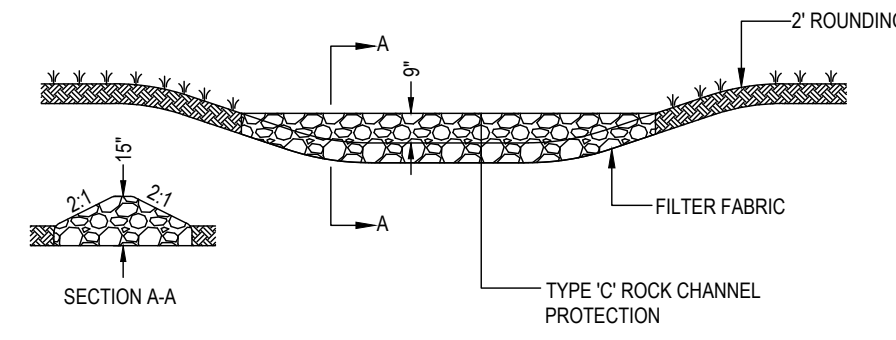
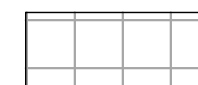
SF SILT FENCE DETAIL
N.T.S.



STONE ACCESS DRIVE DETAIL
N.T.S.



TYPICAL SPILLWAY SECTION
N.T.S.

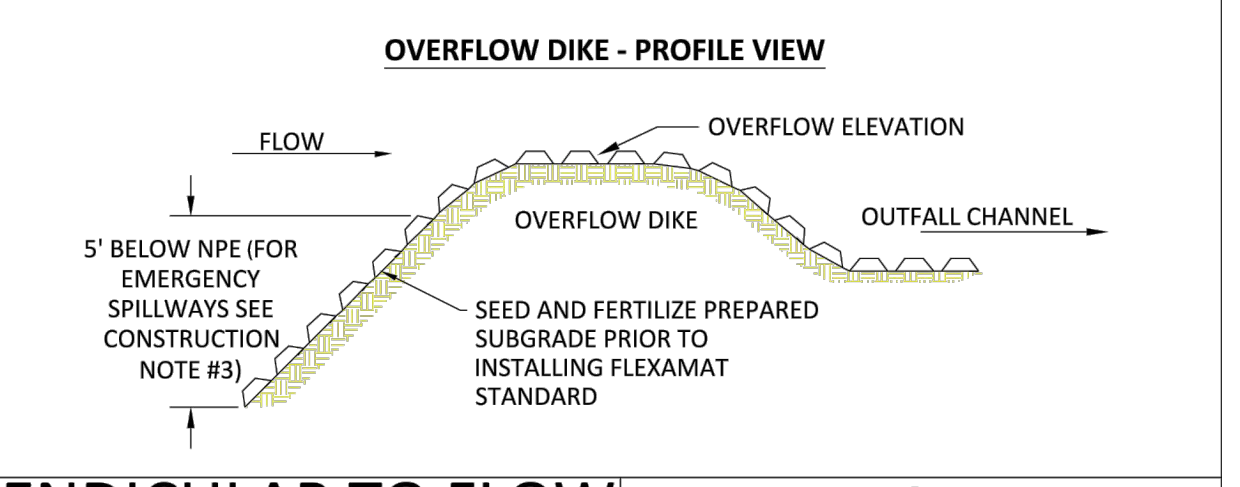
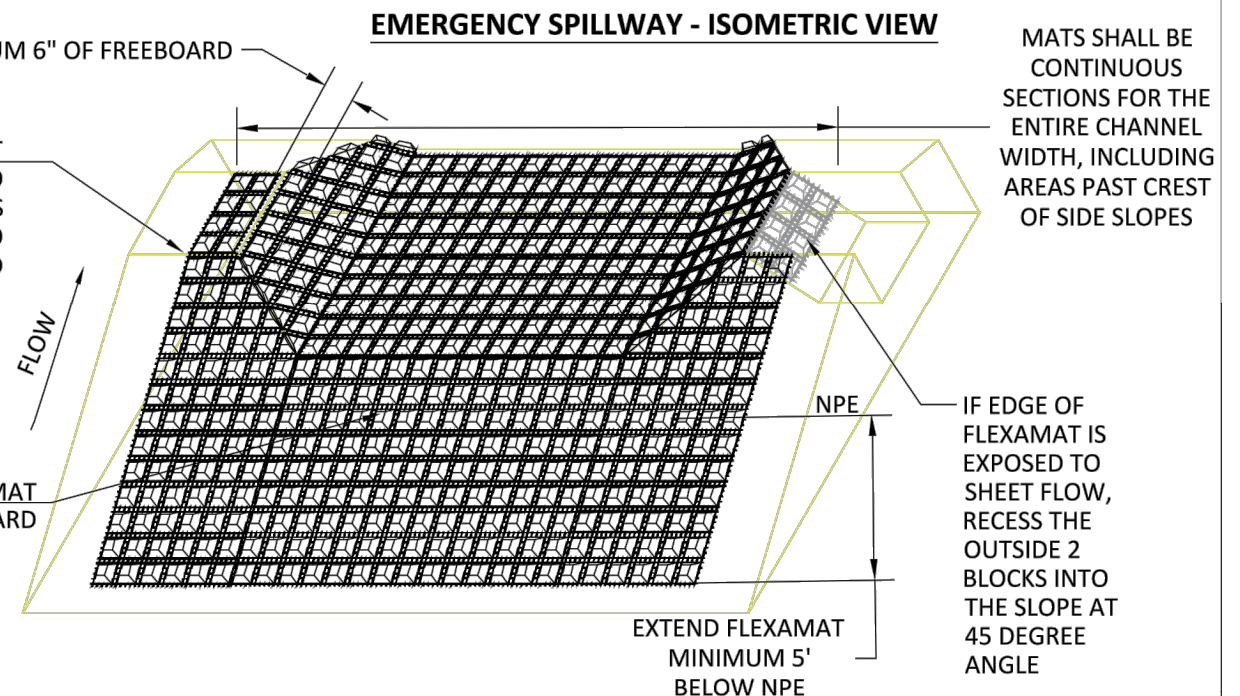
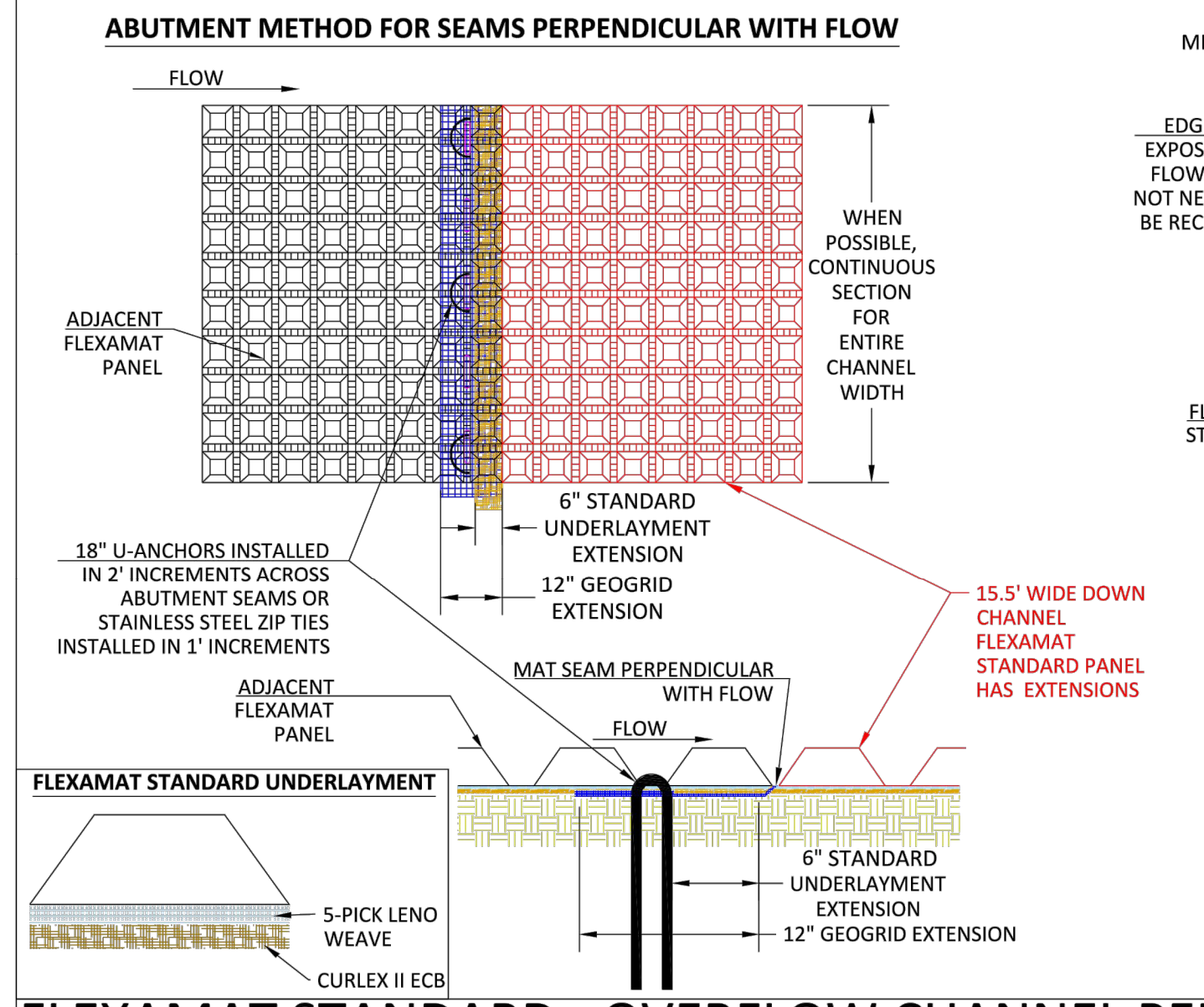
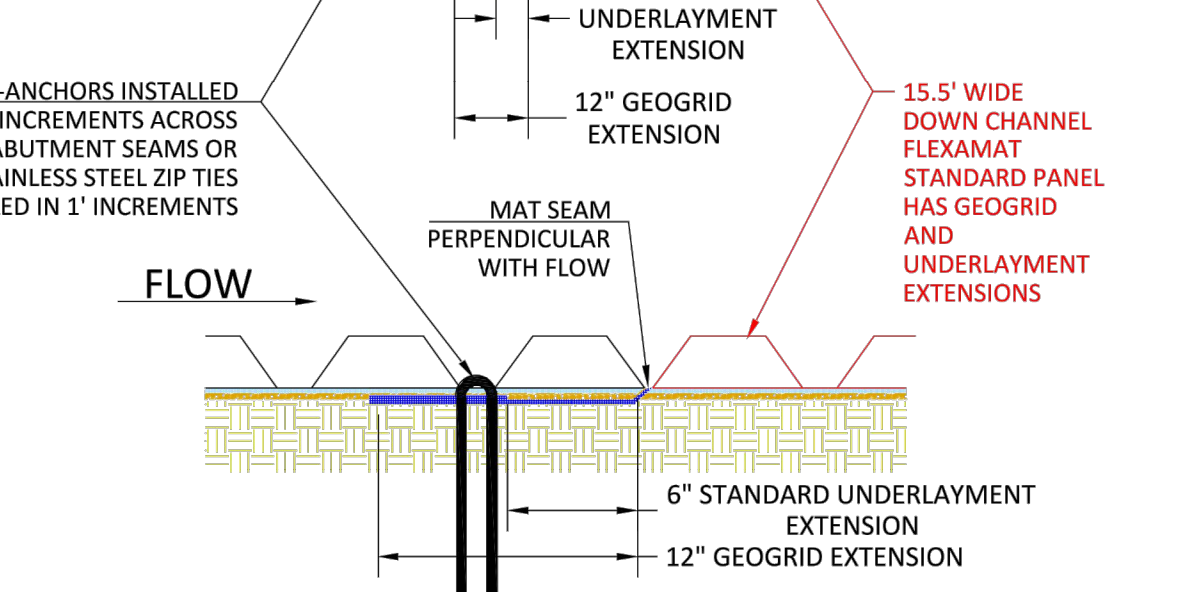
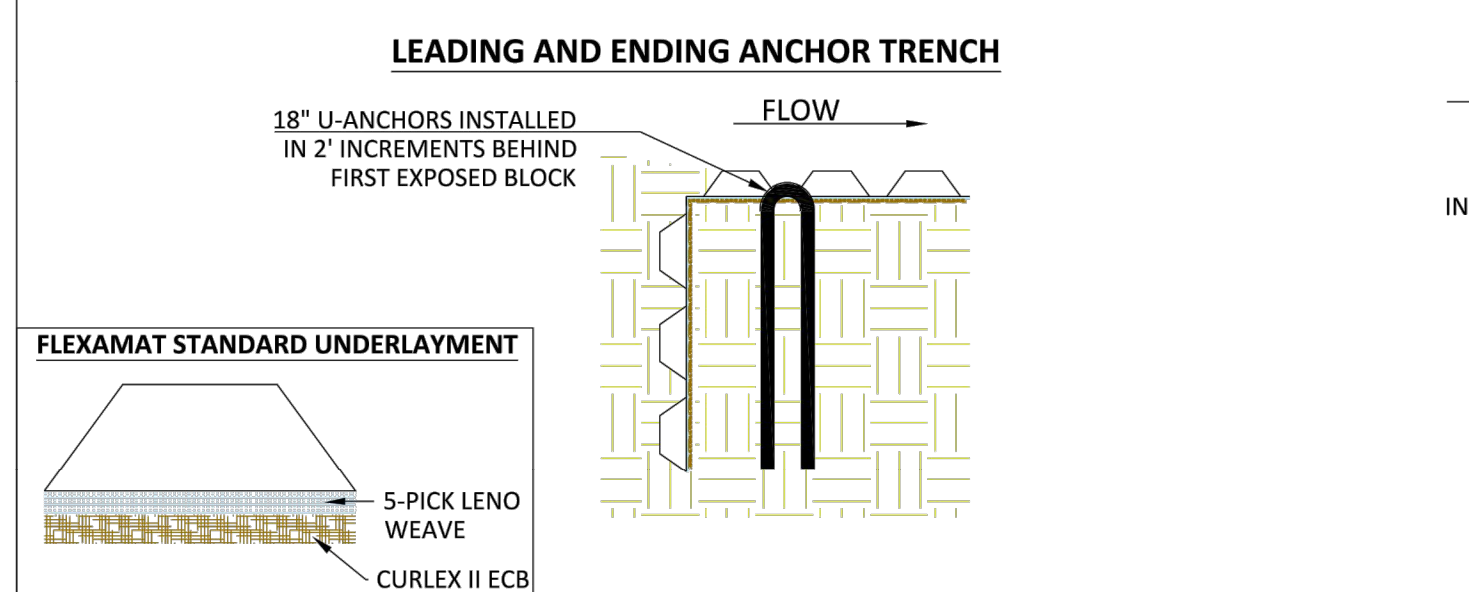
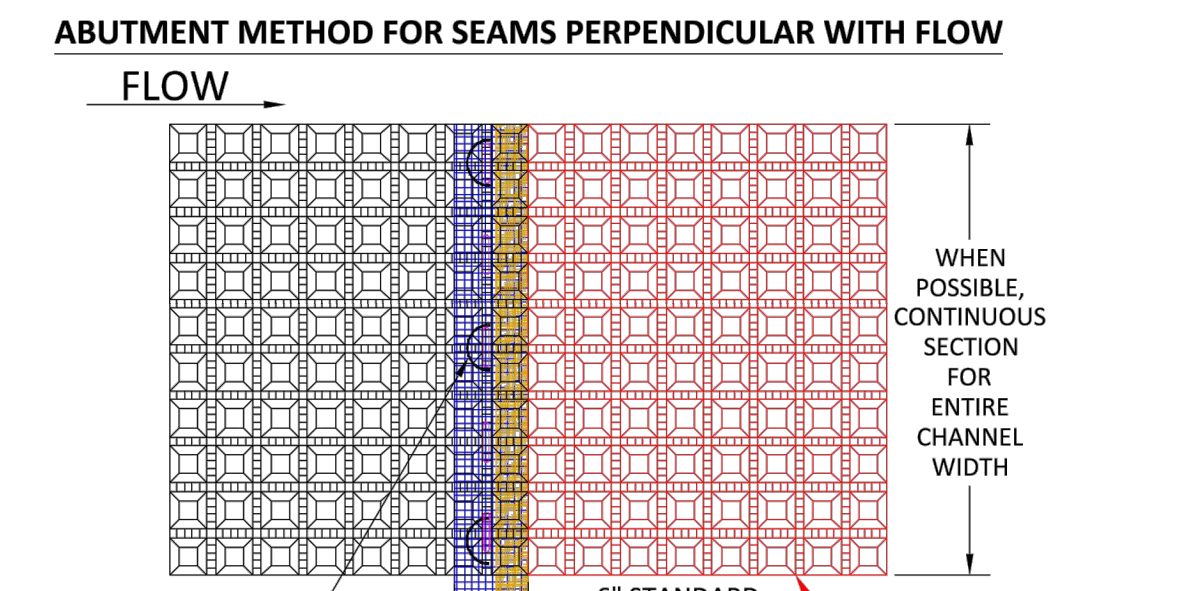
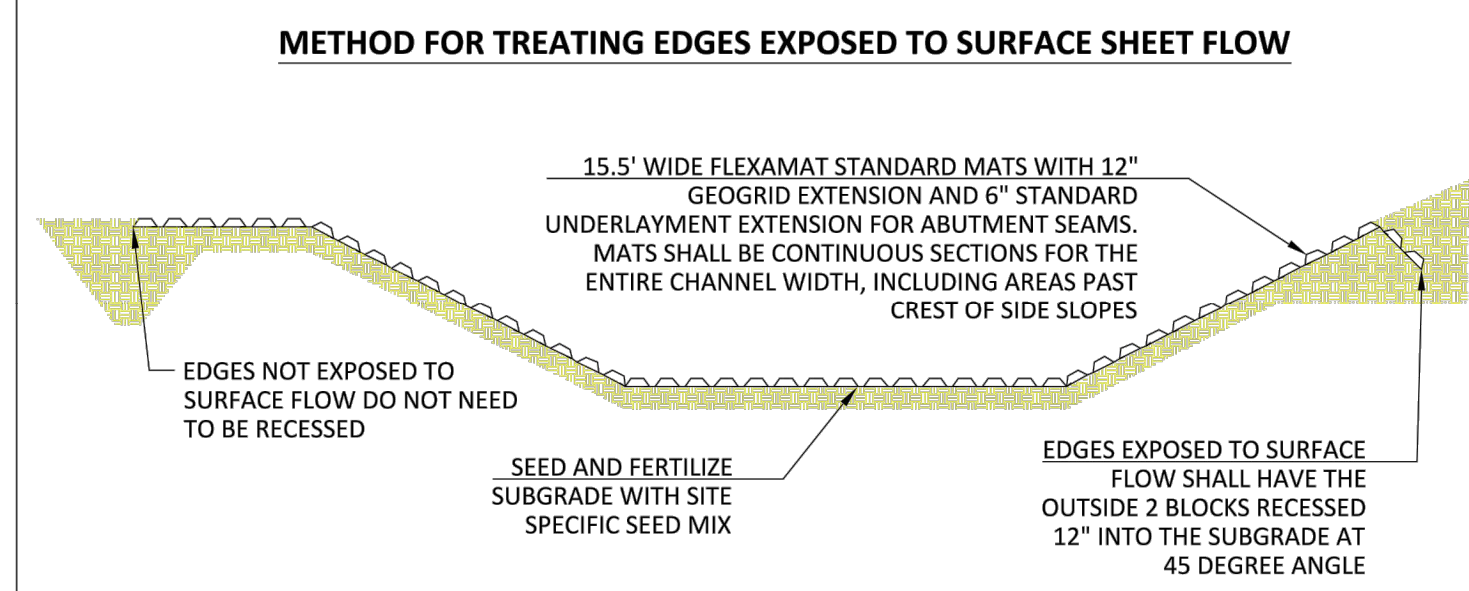


RCD ROCK CHECK DAM
N.T.S.



NO	REVISION	DATE

SCALE:	AS NOTED
DATE:	02/01/2024
DESIGNED BY:	RSEI
DRAWN BY:	RSEI
CHECKED BY:	MBRU



FLEXAMAT STANDARD - CHANNEL LAYOUT PERPENDICULAR TO FLOW

CONSTRUCTION NOTES:

- AN AUTHORIZED MANUFACTURERS REPRESENTATIVE SHALL BE ONSITE FOR THE START OF THE INSTALLATION.
- GRADE CHANNEL SO THAT WATER WILL FLOW DOWN CENTER OF THE CHANNEL AND BE CONTAINED TO THE CHANNEL. ALL SUBGRADE SURFACES PREPARED FOR PLACEMENT OF MATS SHALL BE SMOOTH AND FREE OF ALL ROCKS, STICKS, ROOTS, OTHER PROTRUSIONS, OR DEBRIS OF ANY KIND.
- PRIOR TO FLEXAMAT STANDARD INSTALLATION, SEED AND FERTILIZE SUBGRADE WITH SITE SPECIFIC SEED MIX IN ACCORDANCE WITH THE PROJECT PLANS AND SPECIFICATIONS.
- INSTALL FLEXAMAT STANDARD ROLLS THAT ARE 15.5' WIDE WITH A 12" GEOGRID EXTENSION AND 6" STANDARD UNDERLAYMENT EXTENSION.
 - INSTALL MATS SO THAT THE MATTING EXTENDS PAST THE CREST OF EITHER SIDE SLOPE FOR SLOPES STEEPER THAN 2:1, EMBED EDGE IN A 12" VERTICAL ANCHOR TRENCH. MATS SHALL BE CONTINUOUS SECTIONS ACROSS THE CHANNEL, INCLUDING AREAS PAST CREST OF SIDE SLOPES.
 - FOR SLOPES LESS THAN 2:1, OUTSIDE LONGITUDINAL EDGES SHALL BE EMBEDDED IN A 12" 45 DEGREE ANCHOR TRENCH, ONLY IF EXPOSED TO SURFACE FLOW.
 - INSTALLATION STARTS AT THE DOWN CHANNEL END AND MOVES UP THE CHANNEL, TOWARDS THE START OF CHANNEL OR OUTLET STRUCTURE. INSTALL UP CHANNEL MATS OVER THE GEOGRID AND UNDERLAYMENT EXTENSIONS OF DOWNSTREAM MATS. ENSURE EXTENSIONS ARE LAYING FLAT ON SUBGRADE AND UNDER ADJACENT MAT.
- INSTALL 18" U-ANCHORS IN 2' INCREMENTS BEHIND ANCHOR TRENCH AND ACROSS MAT ABUTMENT SEAMS. INSTALL U-ANCHORS PERPENDICULAR TO FLOW DIRECTLY BEHIND FIRST BLOCK OF THE UP-CHANNEL MAT. AN ALTERNATIVE TO THE 18" U-ANCHORS IS TO INSTALL 20" STAINLESS STEEL ZIP TIES IN 1' INCREMENTS ACROSS MAT ABUTMENT SEAM. ZIP TIE SHALL BE INSTALLED PERPENDICULAR TO FLOW AND ENCOMPASS A MINIMUM OF THREE CORDS OF GRID OF EITHER MAT AT ABUTMENT SEAMS.
- AT THE INITIAL LEADING EDGE OF THE ARMORED CHANNEL, EMBED MAT 18" IN A VERTICAL ANCHOR TRENCH. FILL AND COMPACT ANCHOR TRENCH WITH SUITABLE FILL. AT ENDING EDGE OF PROTECTION, EMBED THE MAT 18" IN A TERMINATION TRENCH. THE TRENCH SHALL BE FILLED AND COMPACTED WITH SUITABLE FILL OR OTHER, AS DETERMINED BY THE ENGINEER OF RECORD.

MOTZ ENTERPRISES, INC.
Flexamat
(513) 772-6689
Info@Flexamat.com
Flexamat.com

REV - 1

FLEXAMAT STANDARD - OVERFLOW CHANNEL PERPENDICULAR TO FLOW

CONSTRUCTION NOTES:

- AN ENGINEER OR MANUFACTURERS REPRESENTATIVE SHALL BE ONSITE FOR THE START OF THE INSTALLATION.
- ALL SUBGRADE SURFACES PREPARED FOR PLACEMENT OF MATS SHALL BE SMOOTH AND FREE OF ALL ROCKS, STICKS, ROOTS, OTHER PROTRUSIONS, OR DEBRIS OF ANY KIND. THE PREPARED SURFACE SHALL PROVIDE A FIRM UNYIELDING SUBGRADE FOR THE MATS.
- PRIOR TO THE FLEXAMAT STANDARD INSTALLATION SEED AND FERTILIZE SUBGRADE WITH SITE SPECIFIC SEED MIX IN ACCORDANCE WITH THE PROJECT PLANS AND SPECIFICATIONS.
- MAT SHALL EXTEND 5' BELOW NORMAL POND ELEVATION. (FOR EMERGENCY OVERFLOW INSTALLATIONS EXTEND THE MAT 3' DOWN THE INSIDE FACE OF THE OVERFLOW DIKE.)
- INSTALL FLEXAMAT STANDARD ROLLS. MANUFACTURER RECOMMENDS INSTALLING THE WIDEST MAT POSSIBLE FOR SPILLWAY APPLICATIONS.
- INSTALLATION STARTS AT THE DOWN CHANNEL END AND MOVES UP THE CHANNEL, TOWARDS THE START OF CHANNEL.
 - FOR WIDTHS WIDER THAN 16', INSTALL 15.5' WIDE MATS WITH GEOGRID AND STANDARD UNDERLAYMENT EXTENSIONS. INSTALL ADJACENT MAT OVER THE 12" GEOGRID AND 6" STANDARD UNDERLAYMENT EXTENSIONS OF THE ADJACENT MATS. ENSURE THE GEOGRID AND STANDARD UNDERLAYMENT EXTENSIONS ARE LAYING FLAT ON THE SUBGRADE BEFORE INSTALLING ADJACENT MAT OVER THE EXTENSIONS.
 - INSTALL 18" U-ANCHORS IN 2' INCREMENTS OR STAINLESS STEEL ZIP TIES IN 1' INCREMENTS ACROSS MAT ABUTMENT SEAMS. INSTALL U-ANCHORS AND ZIP TIES PERPENDICULAR TO FLOW DIRECTLY BEHIND FIRST BLOCK OF THE UP-CHANNEL MAT. U-ANCHORS SHALL ENCOMPASS TWO CORDS OF GEOGRID ON EACH MAT. ZIP TIES SHALL ENCOMPASS 3 CORDS OF GEOGRID FROM EACH MAT.
- AT THE END OF THE ARMORED SPILLWAY, EMBED THE MAT 18" IN A TERMINATION TRENCH. FILL AND COMPACT TERMINATION TRENCH WITH SUITABLE FILL. (AS SPECIFIED BY EOR.)

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REV - 1

FLEXAMAT INSTALLATION (SPILLWAY) DETAIL
N.T.S.

FLEXAMAT INSTALLATION (CHANNEL) DETAIL
N.T.S.

ALEXANDRIA LOWER DAM IMPROVEMENTS
CITY OF ALEXANDRIA
CAMPBELL COUNTY, KENTUCKY

DETAIL SHEET

PROJECT NO:	190970
DRAWING NAME	DTL
SHEET	OF
2	8



0' 200' 400'
SCALE: 1" = 200'

CONSTRUCTION NOTES

- 1 REMOVE/SAFELOAD EXISTING STORM STRUCTURE AND APPROXIMATELY 320 LF OF 36" STORM SEWER.
- 2 REMOVE ABANDONED SANITARY SEWER AS NEEDED. CAP SANITARY SEWER A MINIMUM OF 3 FEET BELOW PROPOSED GRADING AT EACH END.
- 3 REMOVE TREES AS NEEDED. COST SHALL BE INCLUDED AS PART OF CLEARING AND GRUBBING.
- 4 PROPERLY COMPACT FILL MATERIAL PRIOR TO INSTALLATION OF THE PROPOSED STONE ACCESS DRIVE.
- 5 INSTALL FLEXAMAT STANDARD PER MANUFACTURERS INSTRUCTIONS.
- 6 EXCAVATE ACCUMULATED SEDIMENT FROM THE BOTTOM OF THE BASIN WITH 50 FT OF THE EXISTING INLET. THE GRADE SURROUNDING THE INLET SHALL BE SET TO THE MINIMUM OPENING ELEVATION FOR THE STRUCTURE.

HATCH LEGEND

- PROPOSED STONE ACCESS DRIVE
12" OF NO. 2 STONE
- SPILLWAY CHANNEL PROTECTION
FLEXAMAT STANDARD
- REESTABLISH BOTTOM OF BASIN/
REMOVE ACCUMULATION OF SEDIMENT

EROSION CONTROL LEGEND

- IP INLET PROTECTION (SEE DETAIL)
- RCD ROCK CHECK DAM (SEE DETAIL)
- SF SILT FENCE (SEE DETAIL)



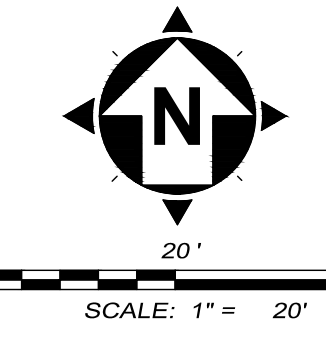
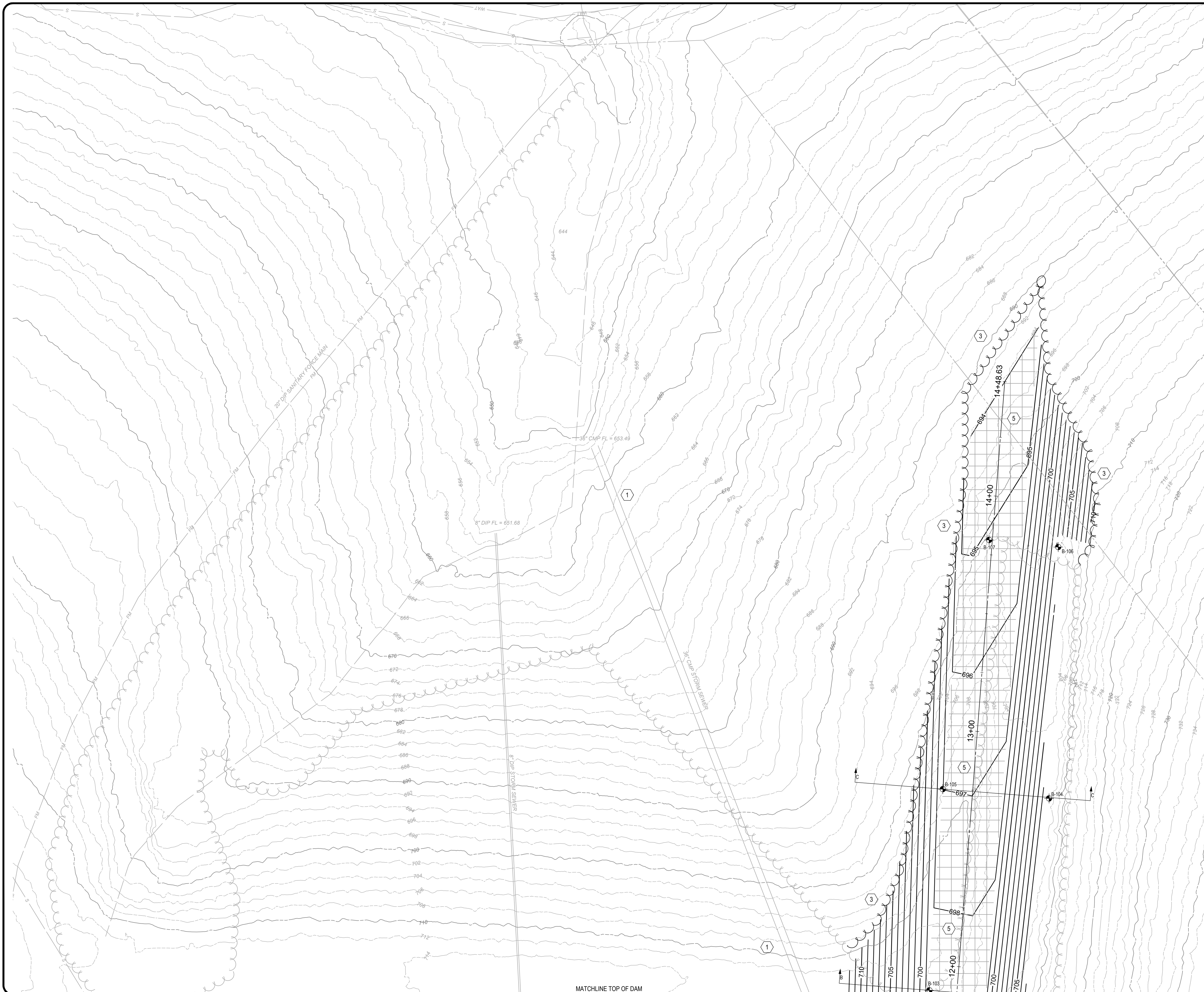
NO	REVISION	DATE

SCALE: AS NOTED
DATE: 02/01/2024
DESIGNED BY: RSEI
DRAWN BY: RSEI
CHECKED BY: MBRU

**ALEXANDRIA LOWER DAM
IMPROVEMENTS
CITY OF ALEXANDRIA
CAMPBELL COUNTY, KENTUCKY**

**PLAN SHEET 1
OVERALL SITE**




PROJECT NO:	
190970	
DRAWING NAME	
PLN 1	
SHEET	OF
3	8






CONSTRUCTION NOTES

- 1 REMOVE/SAFELOAD EXISTING STORM STRUCTURE AND APPROXIMATELY 320 LF OF 36" STORM SEWER.
- 2 REMOVE ABANDONED SANITARY SEWER AS NEEDED. CAP SANITARY SEWER A MINIMUM OF 3 FEET BELOW PROPOSED GRADING AT EACH END.
- 3 REMOVE TREES AS NEEDED. COST SHALL BE INCLUDED AS PART OF CLEARING AND GRUBBING.
- 4 PROPERLY COMPACT FILL MATERIAL PRIOR TO INSTALLATION OF THE PROPOSED STONE ACCESS DRIVE.
- 5 INSTALL FLEXAMAT STANDARD PER MANUFACTURES INSTRUCTIONS.
- 6 EXCAVATE ACCUMULATED SEDIMENT FROM THE BOTTOM OF THE BASIN WITH 50 FT OF THE EXISTING INLET. THE GRADE SURROUNDING THE INLET SHALL BE SET TO THE MINIMUM OPENING ELEVATION FOR THE STRUCTURE.

HATCH LEGEND

-  PROPOSED STONE ACCESS DRIVE
12" OF NO. 2 STONE
-  SPILLWAY CHANNEL PROTECTION
FLEXAMAT STANDARD
-  REESTABLISH BOTTOM OF BASIN/
REMOVE ACCUMULATION OF SEDIMENT

EROSION CONTROL LEGEND

-  IP INLET PROTECTION (SEE DETAIL)
-  RCD ROCK CHECK DAM (SEE DETAIL)
-  SF SILT FENCE (SEE DETAIL)

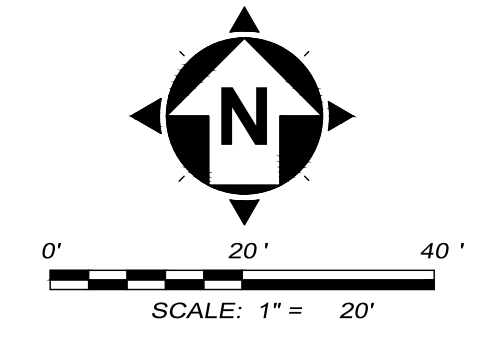


NO	REVISION	DATE

SCALE: AS NOTED	DATE: 02/01/2024	DESIGNED BY: RSEI	DRAWN BY: RSEI	CHECKED BY: MBRU
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**ALEXANDRIA LOWER DAM
IMPROVEMENTS
CITY OF ALEXANDRIA
CAMPBELL COUNTY, KENTUCKY
PLAN SHEET 2
NORTH OF TOP OF DAM**



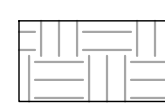
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190970	
DRAWING NAME	
PLN 2	
SHEET	OF
4	8






CONSTRUCTION NOTES

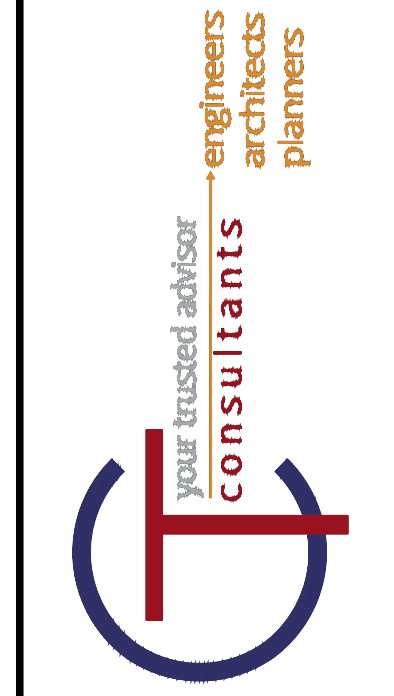
- 1 REMOVE/SAFELOAD EXISTING STORM STRUCTURE AND APPROXIMATELY 320 LF OF 36" STORM SEWER.
- 2 REMOVE ABANDONED SANITARY SEWER AS NEEDED. CAP SANITARY SEWER A MINIMUM OF 3 FEET BELOW PROPOSED GRADING AT EACH END.
- 3 REMOVE TREES AS NEEDED. COST SHALL BE INCLUDED AS PART OF CLEARING AND GRUBBING.
- 4 PROPERLY COMPACT FILL MATERIAL PRIOR TO INSTALLATION OF THE PROPOSED STONE ACCESS DRIVE.
- 5 INSTALL FLEXAMAT STANDARD PER MANUFACTURES INSTRUCTIONS.
- 6 EXCAVATE ACCUMULATED SEDIMENT FROM THE BOTTOM OF THE BASIN WITH 50 FT OF THE EXISTING INLET. THE GRADE SURROUNDING THE INLET SHALL BE SET TO THE MINIMUM OPENING ELEVATION FOR THE STRUCTURE.

HATCH LEGEND

-  PROPOSED STONE ACCESS DRIVE
12" OF NO. 2 STONE
-  SPILLWAY CHANNEL PROTECTION
FLEXAMAT STANDARD
-  REESTABLISH BOTTOM OF BASIN/
REMOVE ACCUMULATION OF SEDIMENT

EROSION CONTROL LEGEND

-  IP INLET PROTECTION (SEE DETAIL)
-  RCD ROCK CHECK DAM (SEE DETAIL)
-  SF SILT FENCE (SEE DETAIL)



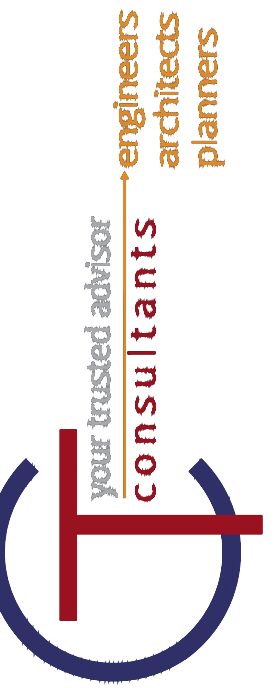
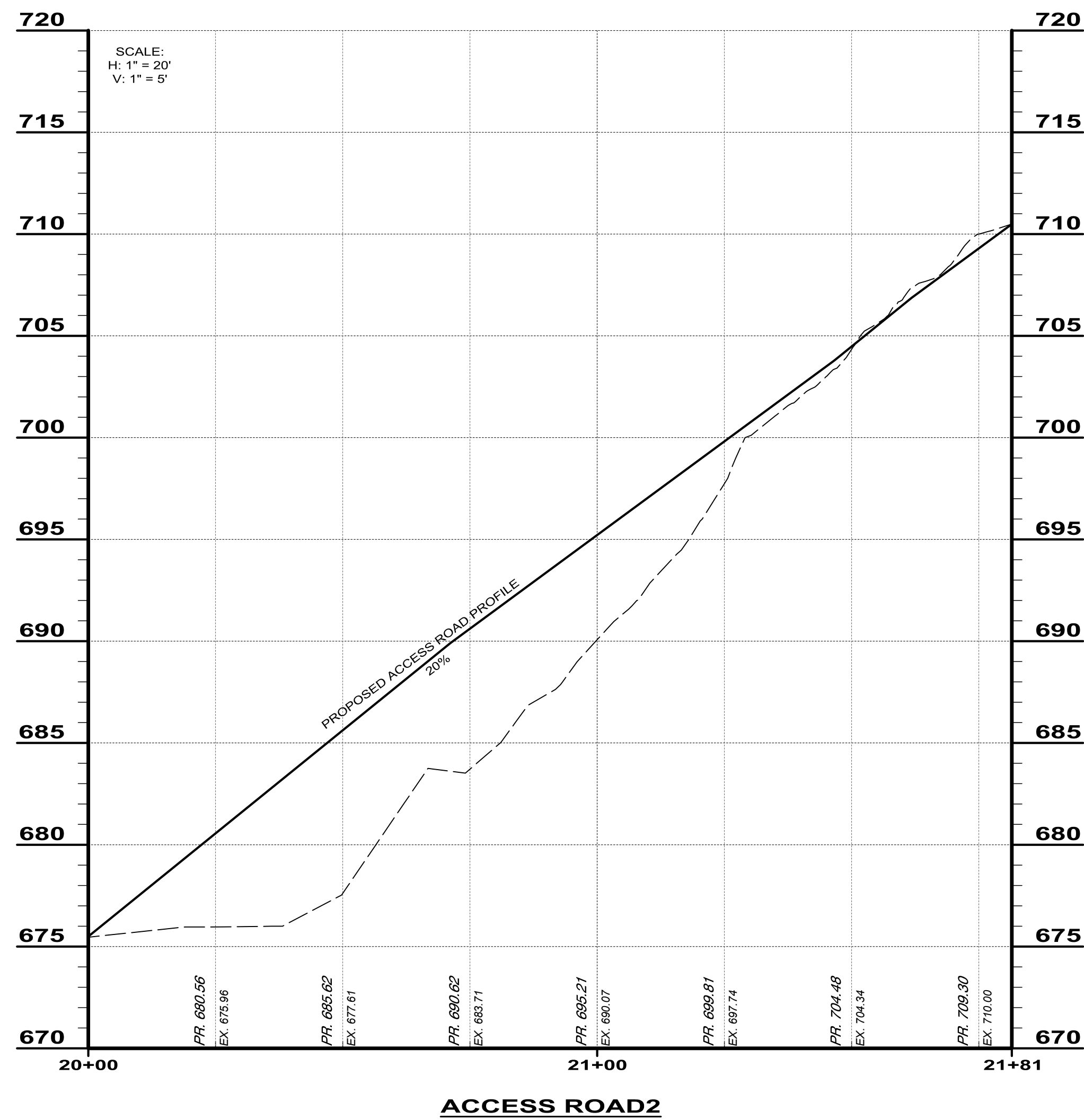
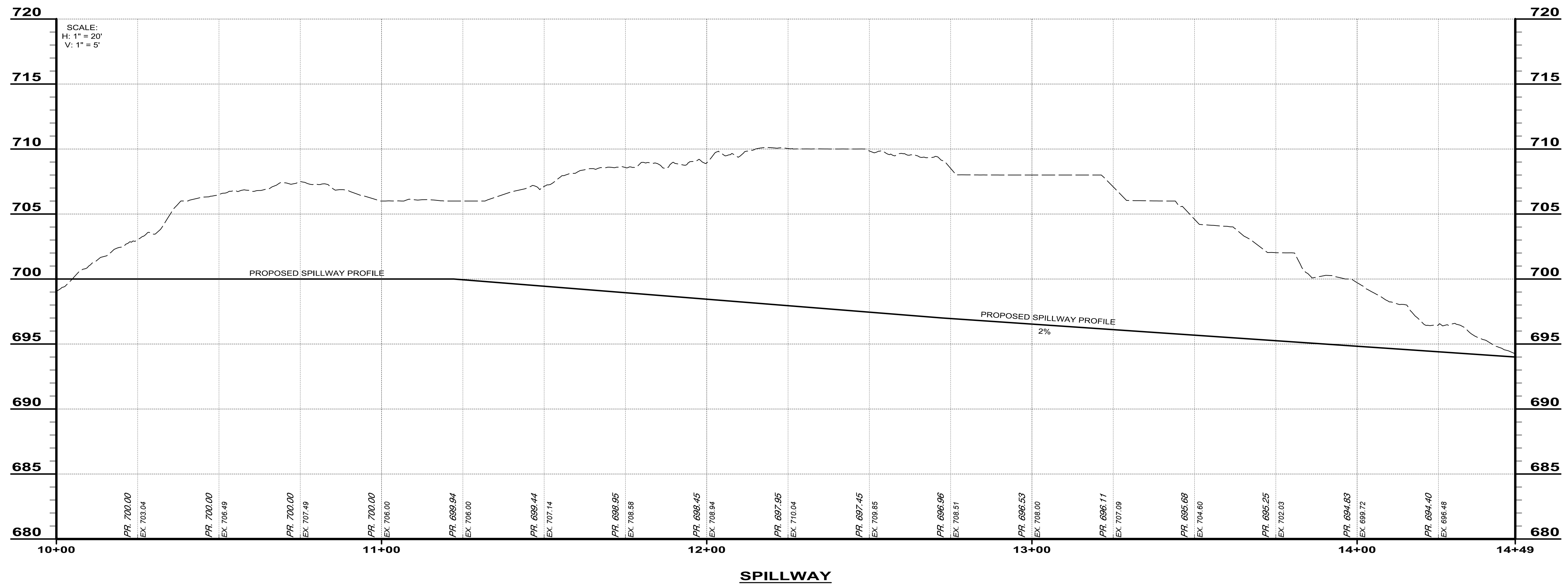
NO	REVISION	DATE

SCALE:	AS NOTED
DATE:	02/01/2024
DESIGNED BY:	RSEI
DRAWN BY:	RSEI
CHECKED BY:	MBRU

**ALEXANDRIA LOWER DAM
IMPROVEMENTS
CITY OF ALEXANDRIA
CAMPBELL COUNTY, KENTUCKY**

**PLAN SHEET 3
OVERALL SITE**

PROJECT NO:	
190970	
DRAWING NAME	
PLN 3	
SHEET	OF
5	8



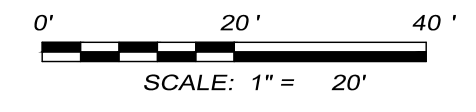
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SCALE:	AS NOTED
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CHECKED BY:	MBRU

**ALEXANDRIA LOWER DAM
IMPROVEMENTS
CITY OF ALEXANDRIA
CAMPBELL COUNTY, KENTUCKY**

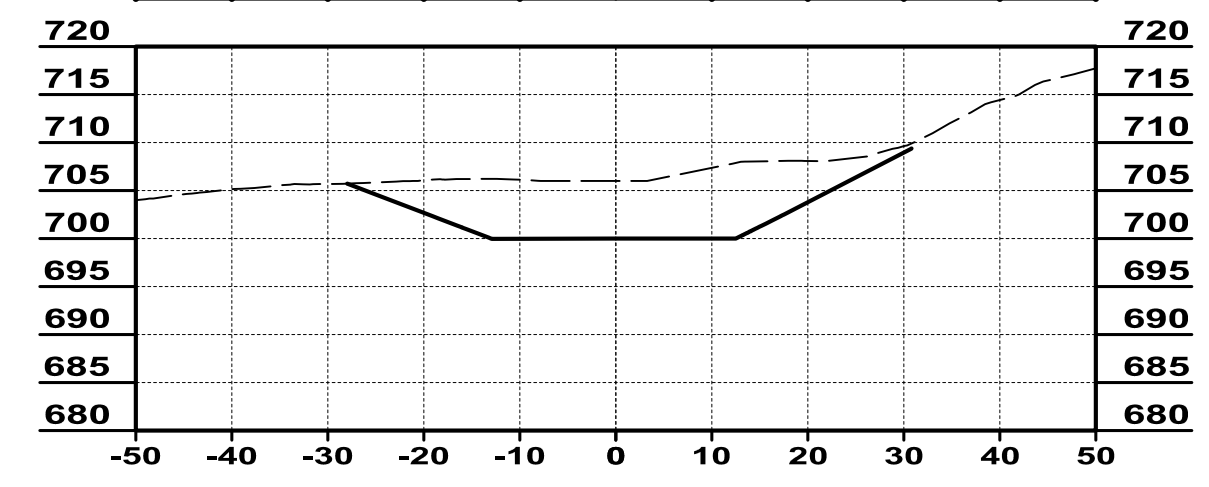
PROFILE SHEET

PROJECT NO:	
190970	
DRAWING NAME	
PRF	
SHEET	OF
6	8



PROPOSED ELEVATIONS								

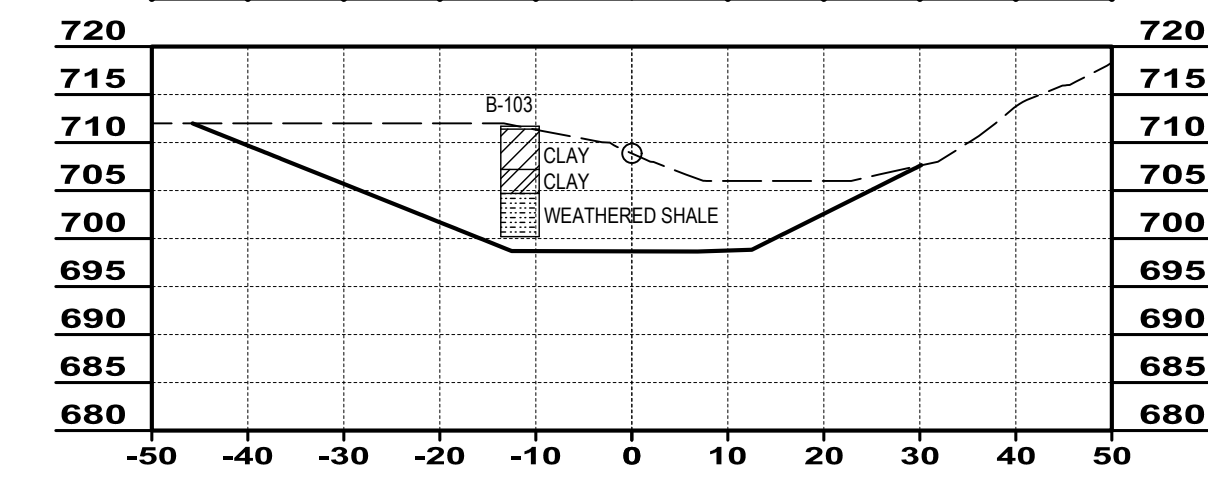
EXISTING ELEVATIONS								



11+22.17
SECTION A - A

PROPOSED ELEVATIONS								

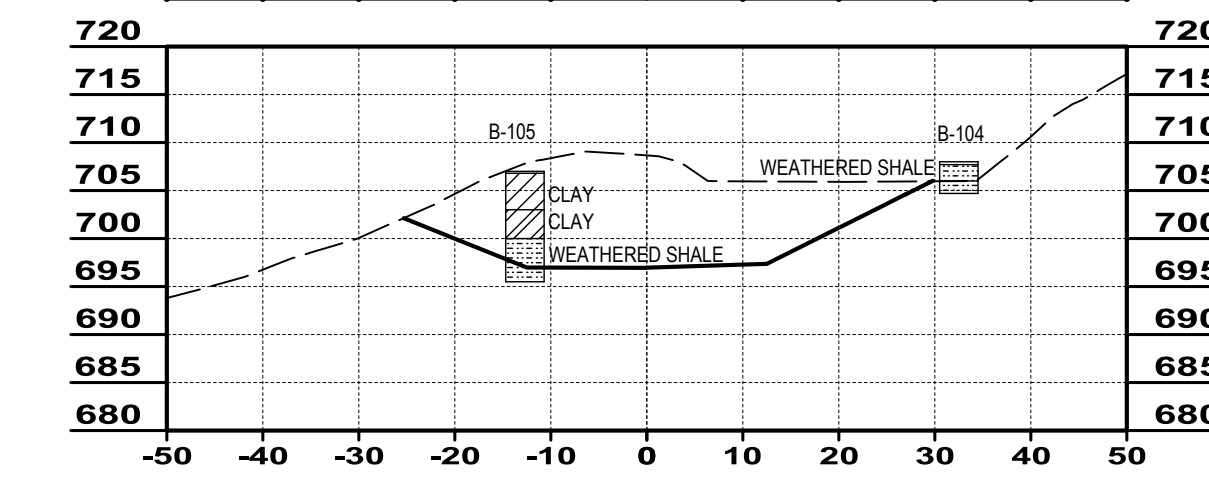
EXISTING ELEVATIONS								



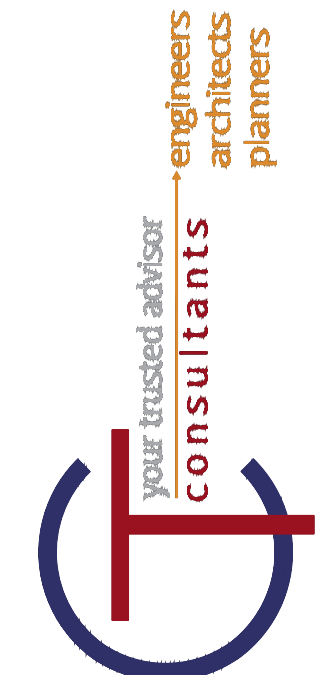
11+89.03
SECTION B - B

PROPOSED ELEVATIONS								

EXISTING ELEVATIONS								



12+74.47
SECTION C - C



NO	REVISION	DATE

SCALE:	AS NOTED
DATE:	02/01/2024
DESIGNED BY:	RSEI
DRAWN BY:	RSEI
CHECKED BY:	MBRU

ALEXANDRIA LOWER DAM
IMPROVEMENTS
CITY OF ALEXANDRIA
CAMPBELL COUNTY, KENTUCKY

CROSS SECTIONS

PROJECT NO:		190970
DRAWING NAME		XS
SHEET	OF	
7	8	



LOG OF TEST BORING

CLIENT: City of Alexandria
PROJECT: Alexandria Community Park Lower Dam Spillway
ALEXANDRIA, KY

BORING #: B-101
PROJECT #: J039543.02
PAGE #: 1 of 1

Table with columns: ELEV., COLOR, MOISTURE, DENSITY, PLASTICITY, SIZE, PROPORTIONS, DESCRIPTION, Strain Depth (feet), Depth Scale (feet), Sample No., SPT Blow(s) Rock Core (ft), Recovery (in.), HP (psi)

Datum: NAVD 88
Surface Elevation: 709.3 ft
Date Started: 12/22/2021
Date Completed: 12/22/2021

BORING METHOD: HSA = Hollow Stem Augers
SAMPLE TYPE: PC = Pavement Core
SAMPLE CONDITIONS: D = Disintegrated
GROUNDWATER DEPTH: First Noted

* SPT = Standard Penetration Test - Driving 2" O.D. Sampler 18" with 140-Pound Hammer Falling 30"; Count Made at 6" Intervals



LOG OF TEST BORING

CLIENT: City of Alexandria
PROJECT: Alexandria Community Park Lower Dam Spillway
ALEXANDRIA, KY

BORING #: B-102
PROJECT #: J039543.02
PAGE #: 1 of 1

Table with columns: ELEV., COLOR, MOISTURE, DENSITY, PLASTICITY, SIZE, PROPORTIONS, DESCRIPTION, Strain Depth (feet), Depth Scale (feet), Sample No., SPT Blow(s) Rock Core (ft), Recovery (in.), HP (psi)

Datum: NAVD 88
Surface Elevation: 706.8 ft
Date Started: 12/22/2021
Date Completed: 12/22/2021

BORING METHOD: HSA = Hollow Stem Augers
SAMPLE TYPE: PC = Pavement Core
SAMPLE CONDITIONS: D = Disintegrated
GROUNDWATER DEPTH: First Noted

* SPT = Standard Penetration Test - Driving 2" O.D. Sampler 18" with 140-Pound Hammer Falling 30"; Count Made at 6" Intervals



LOG OF TEST BORING

CLIENT: City of Alexandria
PROJECT: Alexandria Community Park Lower Dam Spillway
ALEXANDRIA, KY

BORING #: B-103
PROJECT #: J039543.02
PAGE #: 1 of 1

Table with columns: ELEV., COLOR, MOISTURE, DENSITY, PLASTICITY, SIZE, PROPORTIONS, DESCRIPTION, Strain Depth (feet), Depth Scale (feet), Sample No., SPT Blow(s) Rock Core (ft), Recovery (in.), HP (psi)

Datum: NAVD 88
Surface Elevation: 711.7 ft
Date Started: 12/22/2021
Date Completed: 12/22/2021

BORING METHOD: HSA = Hollow Stem Augers
SAMPLE TYPE: PC = Pavement Core
SAMPLE CONDITIONS: D = Disintegrated
GROUNDWATER DEPTH: First Noted

* SPT = Standard Penetration Test - Driving 2" O.D. Sampler 18" with 140-Pound Hammer Falling 30"; Count Made at 6" Intervals



LOG OF TEST BORING

CLIENT: City of Alexandria
PROJECT: Alexandria Community Park Lower Dam Spillway
ALEXANDRIA, KY

BORING #: B-104
PROJECT #: J039543.02
PAGE #: 1 of 1

Table with columns: ELEV., COLOR, MOISTURE, DENSITY, PLASTICITY, SIZE, PROPORTIONS, DESCRIPTION, Strain Depth (feet), Depth Scale (feet), Sample No., SPT Blow(s) Rock Core (ft), Recovery (in.), HP (psi)

Datum: NAVD 88
Surface Elevation: 708.0 ft
Date Started: 12/22/2021
Date Completed: 12/22/2021

BORING METHOD: HSA = Hollow Stem Augers
SAMPLE TYPE: PC = Pavement Core
SAMPLE CONDITIONS: D = Disintegrated
GROUNDWATER DEPTH: First Noted

* SPT = Standard Penetration Test - Driving 2" O.D. Sampler 18" with 140-Pound Hammer Falling 30"; Count Made at 6" Intervals



LOG OF TEST BORING

CLIENT: City of Alexandria
PROJECT: Alexandria Community Park Lower Dam Spillway
ALEXANDRIA, KY

BORING #: B-105
PROJECT #: J039543.02
PAGE #: 1 of 1

Table with columns: ELEV., COLOR, MOISTURE, DENSITY, PLASTICITY, SIZE, PROPORTIONS, DESCRIPTION, Strain Depth (feet), Depth Scale (feet), Sample No., SPT Blow(s) Rock Core (ft), Recovery (in.), HP (psi)

Datum: NAVD 88
Surface Elevation: 707.0 ft
Date Started: 12/22/2021
Date Completed: 12/22/2021

BORING METHOD: HSA = Hollow Stem Augers
SAMPLE TYPE: PC = Pavement Core
SAMPLE CONDITIONS: D = Disintegrated
GROUNDWATER DEPTH: First Noted

* SPT = Standard Penetration Test - Driving 2" O.D. Sampler 18" with 140-Pound Hammer Falling 30"; Count Made at 6" Intervals



LOG OF TEST BORING

CLIENT: City of Alexandria
PROJECT: Alexandria Community Park Lower Dam Spillway
ALEXANDRIA, KY

BORING #: B-106
PROJECT #: J039543.02
PAGE #: 1 of 1

Table with columns: ELEV., COLOR, MOISTURE, DENSITY, PLASTICITY, SIZE, PROPORTIONS, DESCRIPTION, Strain Depth (feet), Depth Scale (feet), Sample No., SPT Blow(s) Rock Core (ft), Recovery (in.), HP (psi)

Datum: NAVD 88
Surface Elevation: 702.4 ft
Date Started: 12/22/2021
Date Completed: 12/22/2021

BORING METHOD: HSA = Hollow Stem Augers
SAMPLE TYPE: PC = Pavement Core
SAMPLE CONDITIONS: D = Disintegrated
GROUNDWATER DEPTH: First Noted

* SPT = Standard Penetration Test - Driving 2" O.D. Sampler 18" with 140-Pound Hammer Falling 30"; Count Made at 6" Intervals



LOG OF TEST BORING

CLIENT: City of Alexandria
PROJECT: Alexandria Community Park Lower Dam Spillway
ALEXANDRIA, KY

BORING #: B-107
PROJECT #: J039543.02
PAGE #: 1 of 1

Table with columns: ELEV., COLOR, MOISTURE, DENSITY, PLASTICITY, SIZE, PROPORTIONS, DESCRIPTION, Strain Depth (feet), Depth Scale (feet), Sample No., SPT Blow(s) Rock Core (ft), Recovery (in.), HP (psi)

Datum: NAVD 88
Surface Elevation: 701.5 ft
Date Started: 12/22/2021
Date Completed: 12/22/2021

BORING METHOD: HSA = Hollow Stem Augers
SAMPLE TYPE: PC = Pavement Core
SAMPLE CONDITIONS: D = Disintegrated
GROUNDWATER DEPTH: First Noted

* SPT = Standard Penetration Test - Driving 2" O.D. Sampler 18" with 140-Pound Hammer Falling 30"; Count Made at 6" Intervals

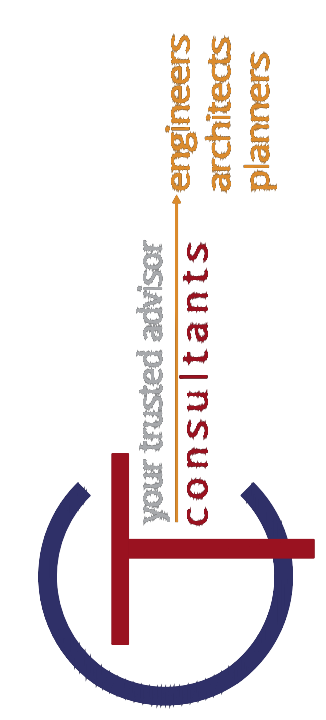


Table with columns: REVISION, DATE, NO

Table with columns: SCALE, AS NOTED, DATE, DESIGNED BY, DRAWN BY, CHECKED BY

ALEXANDRIA LOWER DAM IMPROVEMENTS CITY OF ALEXANDRIA CAMPBELL COUNTY, KENTUCKY BORING LOGS

Table with columns: PROJECT NO., DRAWING NAME, SHEET, OF