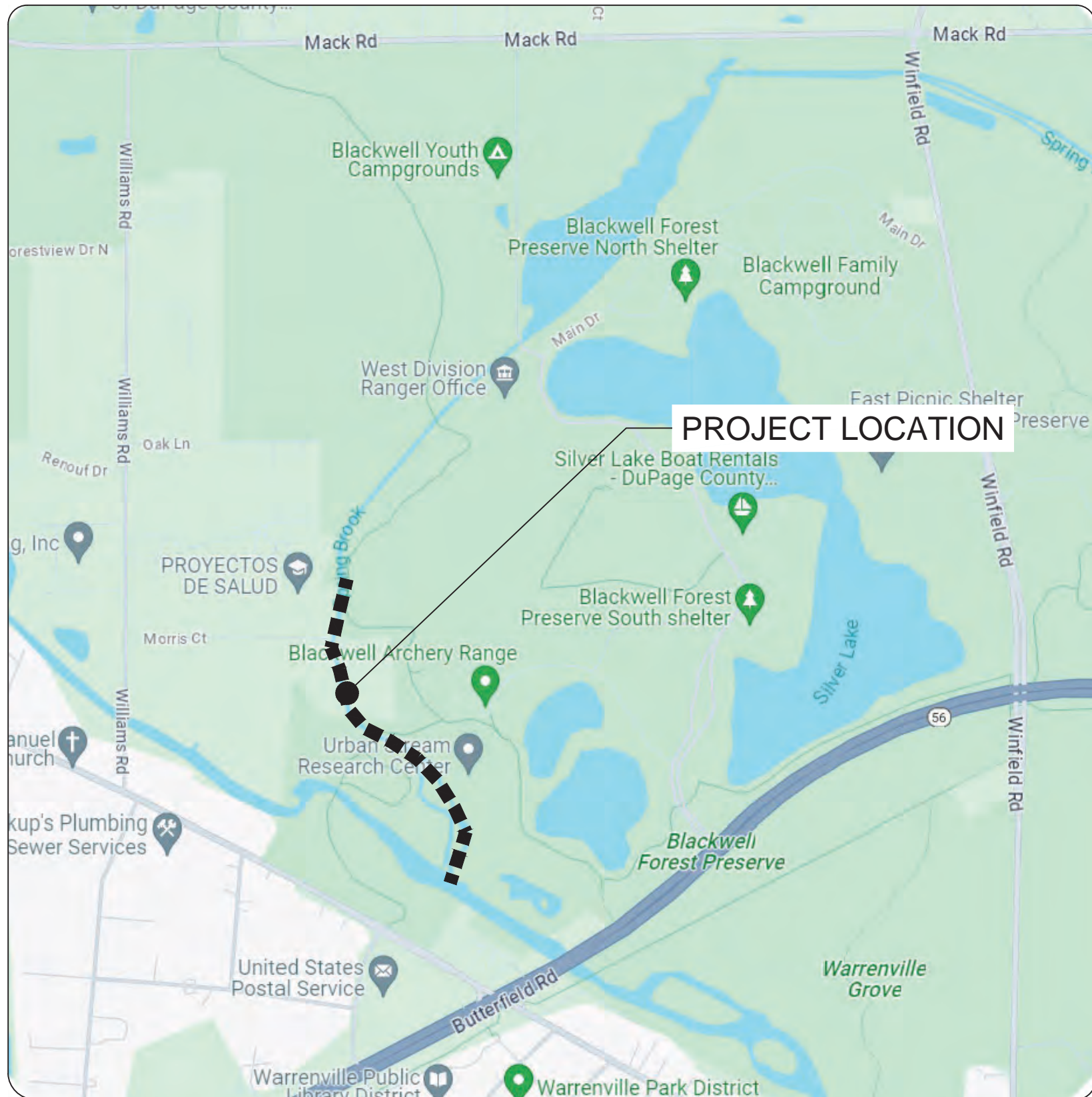


SPRING BROOK PHASE III RESTORATION

AT BLACKWELL FOREST PRESERVE

WARRENVILLE, IL 60555
PROJECT # Z-023-101

LOCATION MAP



BENCHMARK DATA

SURVEY DATUM: NAVD88
DUPAGE COUNTY:
BENCHMARK #0193:
STATION IS LOCATED ALONG THE WEST SIDE OF WINFIELD ROAD, SOUTH OF THE INTERSECTION WITH MACK ROAD. STATION IS 64.9 FT SOUTHEAST OF A POWER POLE AND 31.7 FT WEST OF THE CENTERLINE OF WINFIELD ROAD. MONUMENT IS A BRASS DISK ON THE NORTH END OF THE WEST CONCRETE HEADWALL FOR SPRING BROOK PASSING UNDER WINFIELD ROAD
ELEV=719.26
BENCHMARK W127001:
STATION IS LOCATED ALONG WILLIAMS ROAD, NORTH OF THE "T" INTERSECTION WITH BATAVIA ROAD. STATION IS 567.0 FT NORTH OF THE CENTERLINE OF BATAVIA ROAD, 478.0 FT SOUTH OF THE CENTERLINE OF MORRIS STREET, AND 13.9 FT EAST OF THE CENTERLINE OF WILLIAMS STREET. MONUMENT IS A 1/4 INCH BRASS DISK ON THE NORTHEAST WINGWALL OF A BRIDGE FOR WILLIAMS STREET OVER THE DU PAGE RIVER WEST BRANCH. MONUMENT IS 0.2 FT ABOVE ROAD SURFACE AND IS FERROMAGNETIC
ELEV=697.53
SITE BENCHMARK:
BM#1: 'X' IN CONCRETE AT SOUTHWEST CORNER OF ARROW ROAD BRIDGE OVER SPRING BROOK NO. 1
ELEV=708.03
BM#2: NAIL IN HMA AT SOUTHWEST CORNER OF ARROW ROAD AND OLD SPRING BROOK NO.1
CHANNEL
ELEV=707.09



CONTACT J.U.L.I.E. 48-HOURS BEFORE YOU DIG
CALL "811" OR 1-800-892-0123 TO PLACE A LOCATE REQUEST
ILLINOIS ONE CALL SYSTEM



PLANS PREPARED BY:
FOREST PRESERVE DISTRICT OF DUPAGE COUNTY
STREET ADDRESS: 35580 NAPERVILLE ROAD, WHEATON, IL 60189
MAILING ADDRESS: P.O. BOX 5000, WHEATON, IL 60189
PHONE: (630) 933-7200 FAX: (630) 933-7204
WWW.DUPAGEFOREST.ORG

SHEET LIST TABLE

SHEET NUMBER	SHEET TITLE	SHEET NUMBER	SHEET TITLE	SHEET NUMBER	SHEET TITLE
COVER		PROPOSED CONDITIONS P&P		STRUCTURAL PLANS	
1	COV 1.00	24	C 1.00	46	S1
2	GN 1.00	25	C 1.01	47	S2
EXISTING CONDITIONS P&P		26	C 1.02	48	S3
3	EX 1.00	27	C 1.03	BORINGS	
4	EX 1.01	28	C 1.04		
5	EX 1.02	29	C 1.05		
6	EX 1.03	30	C 1.06		
7	EX 1.04	PROPOSED CROSS SECTIONS			
8	EX 1.05	31	C 1.07		
9	EX 1.06	32	C 1.08		
EXISTING CROSS SECTIONS		33	C 1.09		
10	EX 1.07	34	C 1.10		
11	EX 1.08	DETAILS			
12	EX 1.09	35	C 1.11		
13	EX 1.10	36	C 1.12		
EROSION CONTROL AND DEMO PLAN		37	C 1.13		
14	EC 1.00	38	C 1.14		
15	EC 1.01	39	C 1.15		
16	EC 1.02	40	C 1.16		
17	EC 1.03	RESTORATION PLAN			
18	EC 1.04	41	L 1.00		
19	EC 1.05	42	L 1.01		
20	EC 1.06	43	L 1.02		
EROSION CONTROL DETAILS		RESTORATION DETAILS			
21	EC 1.07	44	L 1.07		
22	EC 1.08	45	L 1.08		
23	EC 1.09				

PLAN REVISIONS

ORIGINAL PLAN DATE: September 16, 2024

MARK	SHEET NO.	DESCRIPTION	DATE
△	NUMEROUS	PER DPC STORMWATER REVIEW	JAN 2025
△	NUMEROUS	REMOVED MUSSEL BASINS, MOD RESTORATION LIMITS	MAY 2025

OWNER:
**FOREST PRESERVE DISTRICT
DU PAGE
COUNTY**

STREET ADDRESS:
3 S 580 NAPERVILLE ROAD
WHEATON, IL 60189-8761

MAILING ADDRESS:
P.O. BOX 5000
WHEATON, IL 60189-8000

CONTACT NUMBERS:
PH# 630-933-7200
FAX# 630-933-7204

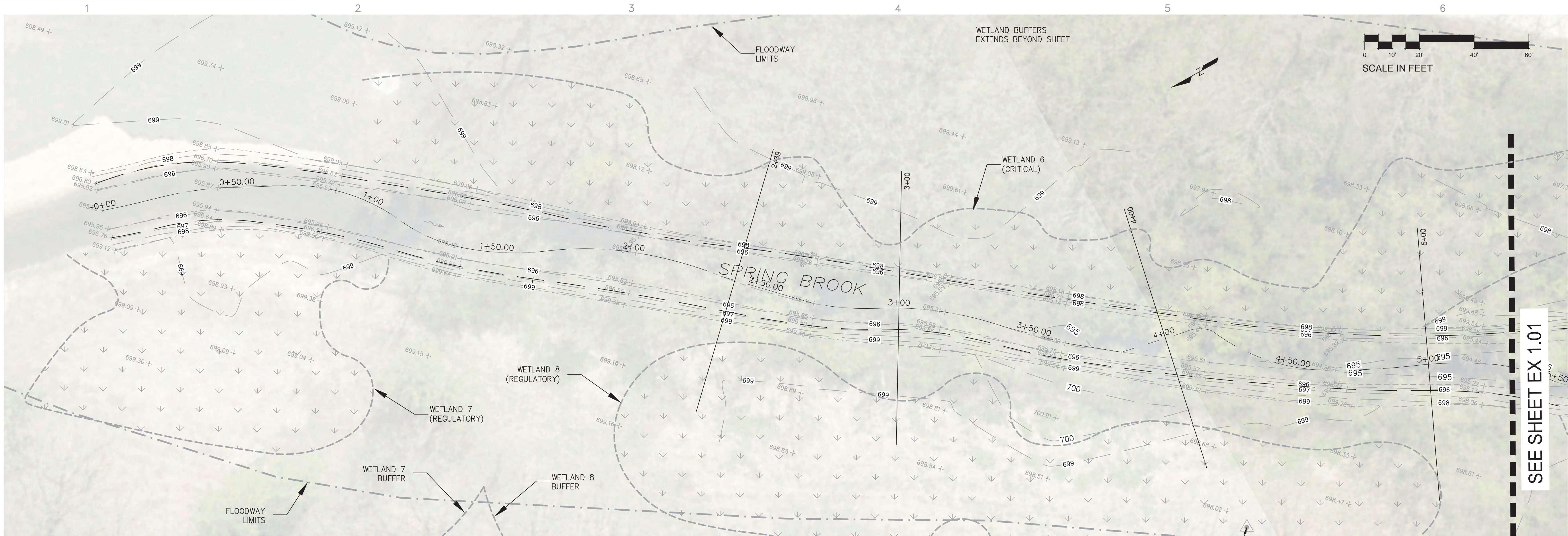
BLACKWELL FOREST PRESERVE
SPRING BROOK PHASE III

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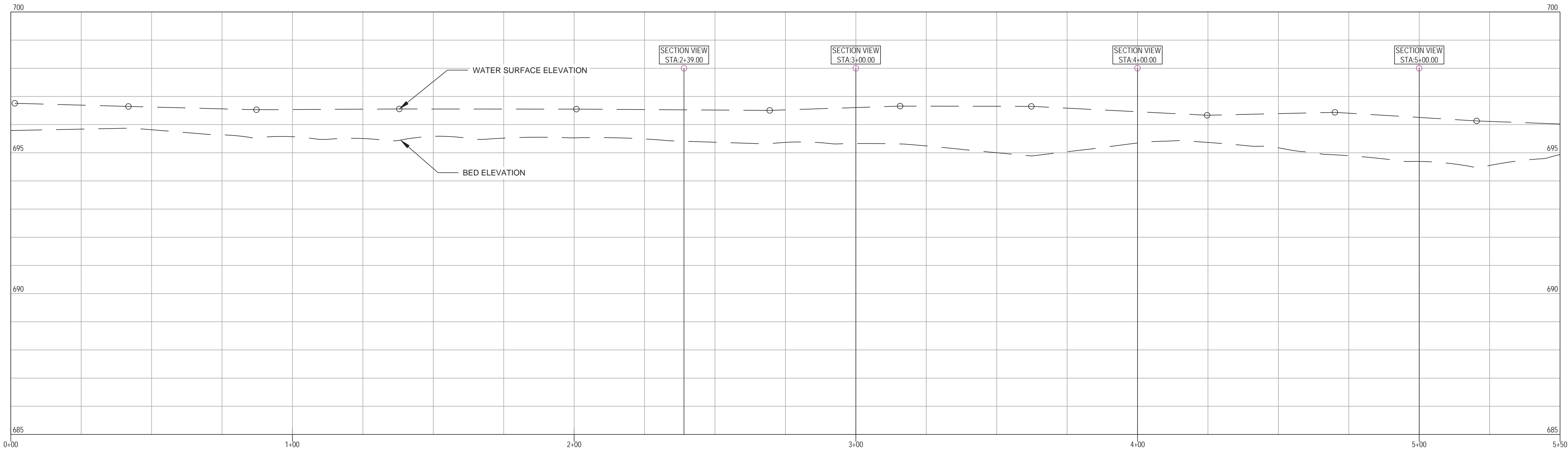
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DRAWN BY:
CHECKED BY:
DATE: August 28, 2024
SCALE:

SHEET TITLE:
COVER

SHEET NO:
COV 1.00
SHEET 1 OF 48



△ ADDED WETLAND, BUFFER, FLOODPLAIN AND FLOODWAY TO ALL SHEETS



OWNER: STREET ADDRESS:
3 S 580 NAPERVILLE ROAD
WHEATON, IL 60189-8761
MAILING ADDRESS:
P.O. BOX 5000
WHEATON, IL 60189-5000
CONTACT NUMBERS:
PH# 630-933-7200
FAX# 630-933-7204

BLACKWELL FOREST PRESERVE SPRING BROOK PHASE III

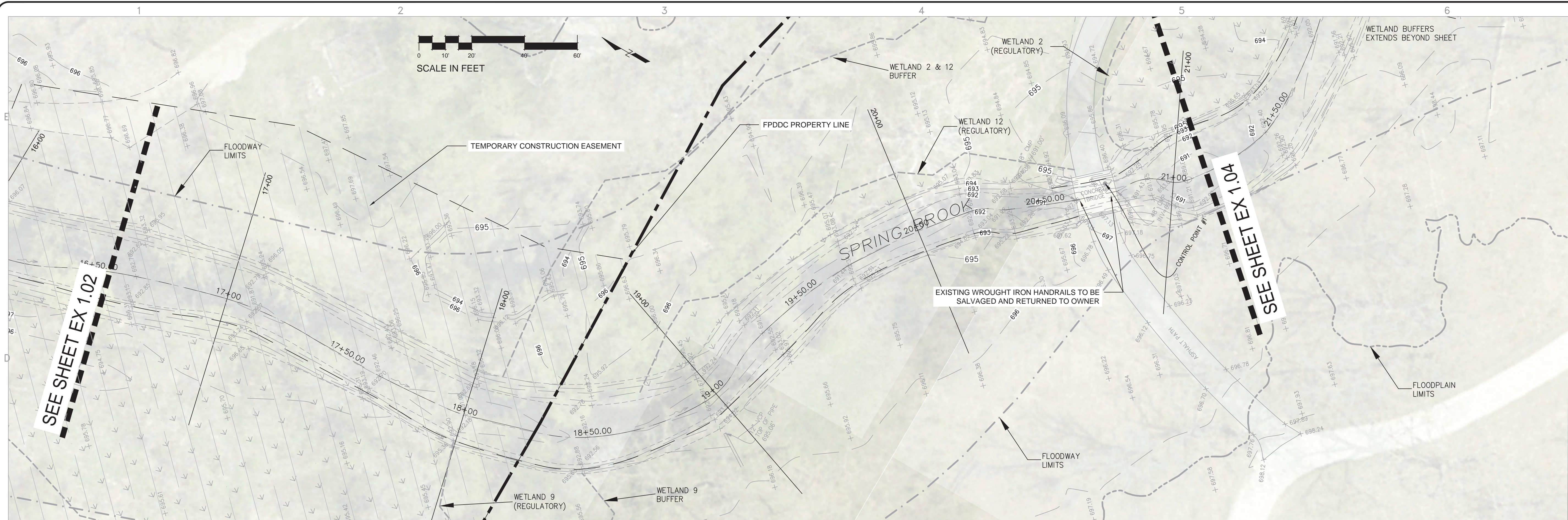
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DATE: August 28, 2024
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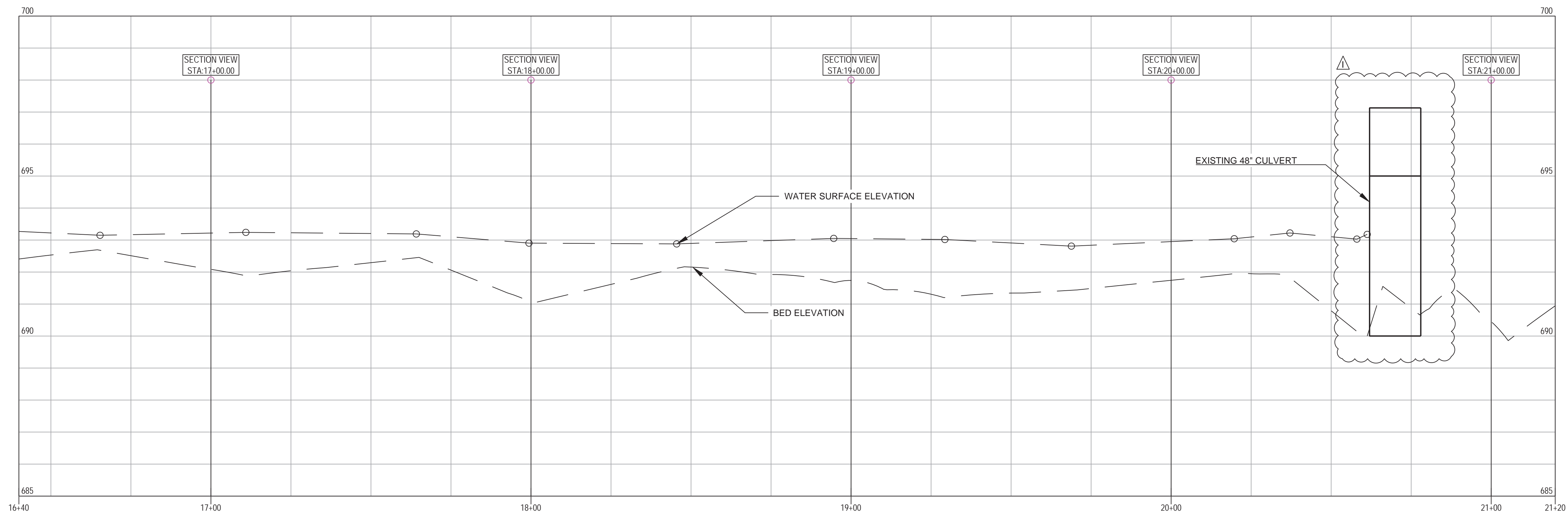
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EXISTING CONDITIONS
PLAN AND PROFILE

SHEET NO:
EX 1.00
SHEET 3 OF 48

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 ADDED WETLAND, BUFFER, FLOODPLAIN AND FLOODWAY TO ALL SHEETS



OWNER:  **FOREST PRESERVE DISTRICT**
DU PAGE COUNTY

STREET ADDRESS:
**3 S 580 NAPERVILLE ROAD
WHEATON, IL 60189-8761**

MAILING ADDRESS:
**P.O. BOX 5000
WHEATON, IL 60189-5000**

CONTACT NUMBERS:
**PH# 630-933-7200
FAX# 630-933-7204**

BLACKWELL FOREST PRESERVE

SPRING BROOK PHASE III

PH#:

FAX#

SUBCONSULTANT:

PH#:

FAX#

CONSULTANT:

[illegible]

PROJECT NO:	Z-023-101
DRAWN BY:	
CHECKED BY:	
DATE:	August 28, 2024
SCALE:	

SHEET TITLE:

EXISTING CONDITIONS PLAN AND PROFILE

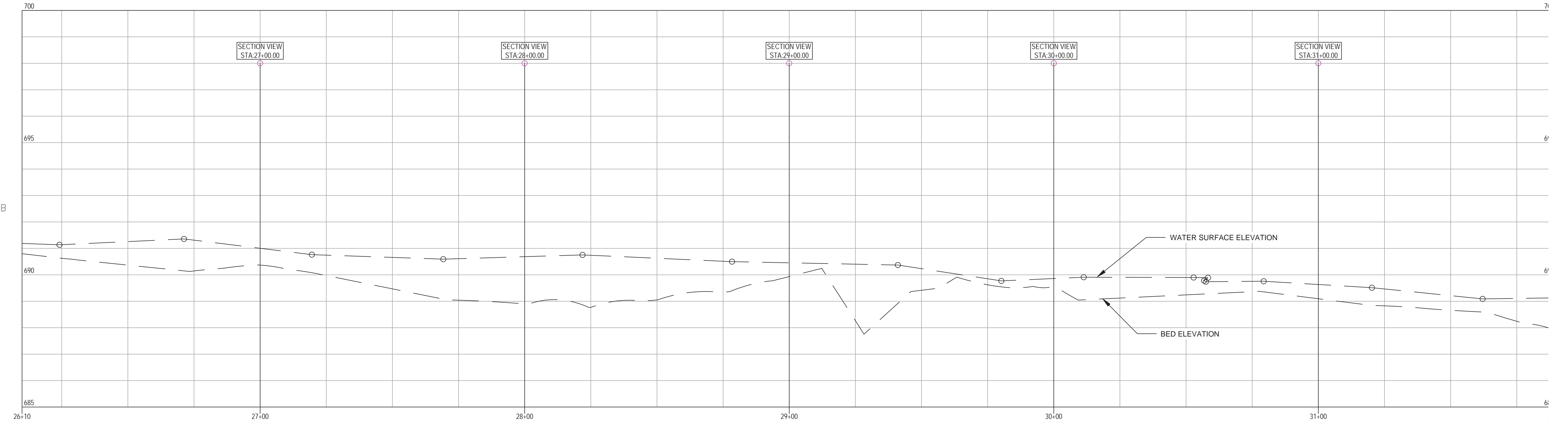
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EX 1.03

SHEET 6 OF 48



△ ADDED WETLAND, BUFFER, FLOODPLAIN AND FLOODWAY TO ALL SHEETS



OWNER: STREET ADDRESS:
3 S 580 NAPERVILLE ROAD
WHEATON, IL 60189-8761
MAILING ADDRESS:
P.O. BOX 5000
WHEATON, IL 60189-5000
CONTACT NUMBERS:
PH# 630-933-7200
FAX# 630-933-7204

**BLACKWELL FOREST PRESERVE
SPRING BROOK PHASE III**

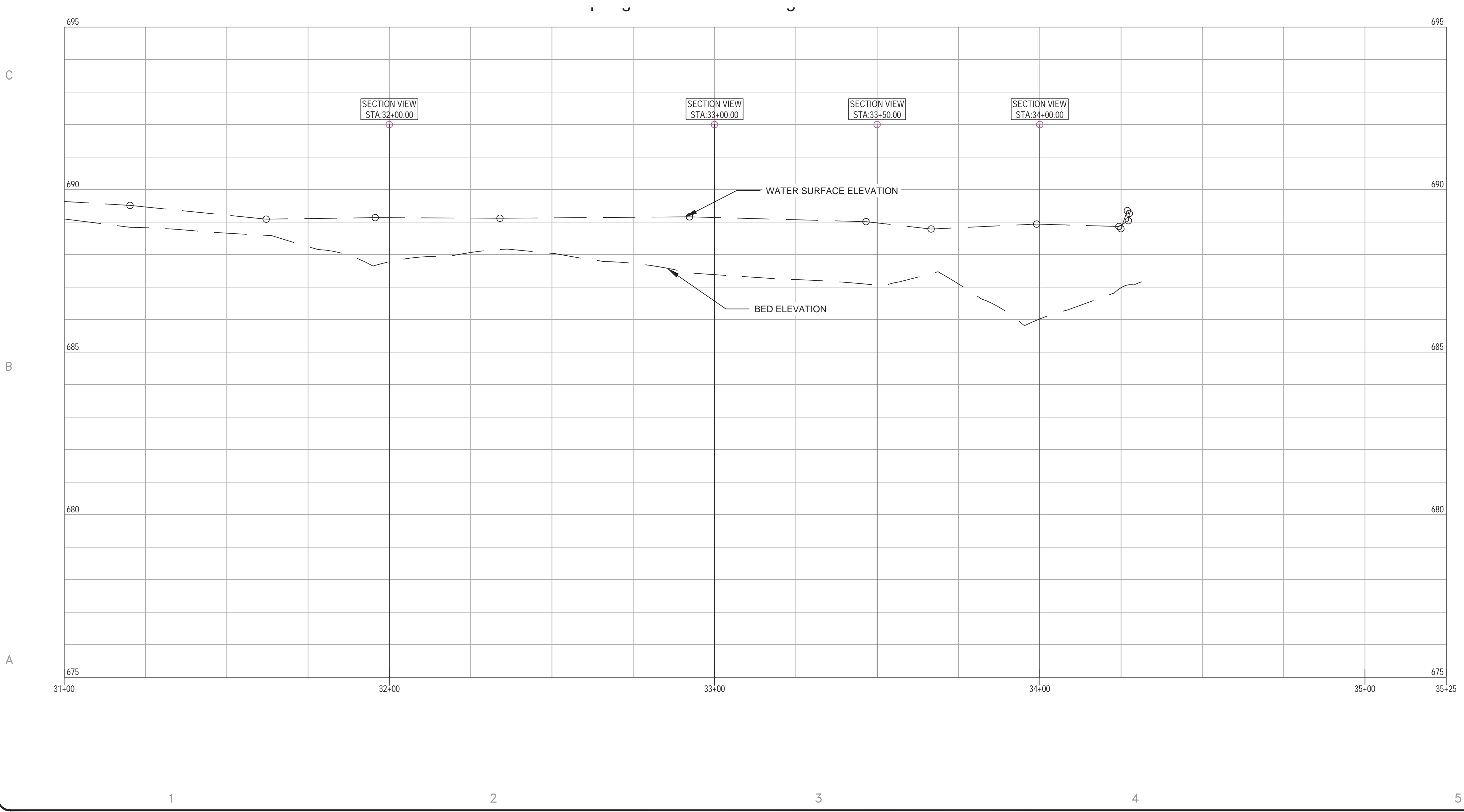
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CHECKED BY:
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SCALE:

SHEET TITLE:
**EXISTING CONDITIONS
PLAN AND PROFILE**

SHEET NO:
EX 1.05
SHEET 8 OF 48

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ADDED WETLAND, BUFFER, FLOODPLAIN AND FLOODWAY TO ALL SHEETS

OWNER:

STREET ADDRESS:

3 S 580 NAPERVILLE ROAD

WHEATON, IL 60189-8761

MAILING ADDRESS:

P.O. BOX 5000

WHEATON, IL 60189-5000

CONTACT NUMBERS:

PH# 630-933-7200

FAX# 630-933-7204

FOREST PRESERVE DISTRICT

DU PAGE COUNTY

BLACKWELL FOREST PRESERVE

SPRING BROOK PHASE III

CONSULTANT:

PH#:

FAX#:

SUBCONSULTANT:

PH#:

FAX#:

MARK:	DATE:	DESCRIPTION:

PROJECT NO:

Z-023-101

DRAWN BY:

CHECKED BY:

DATE:

August 28, 2024

SCALE:

SHEET TITLE:

EXISTING CONDITIONS

PLAN AND PROFILE

SHEET NO:

EX 1.06

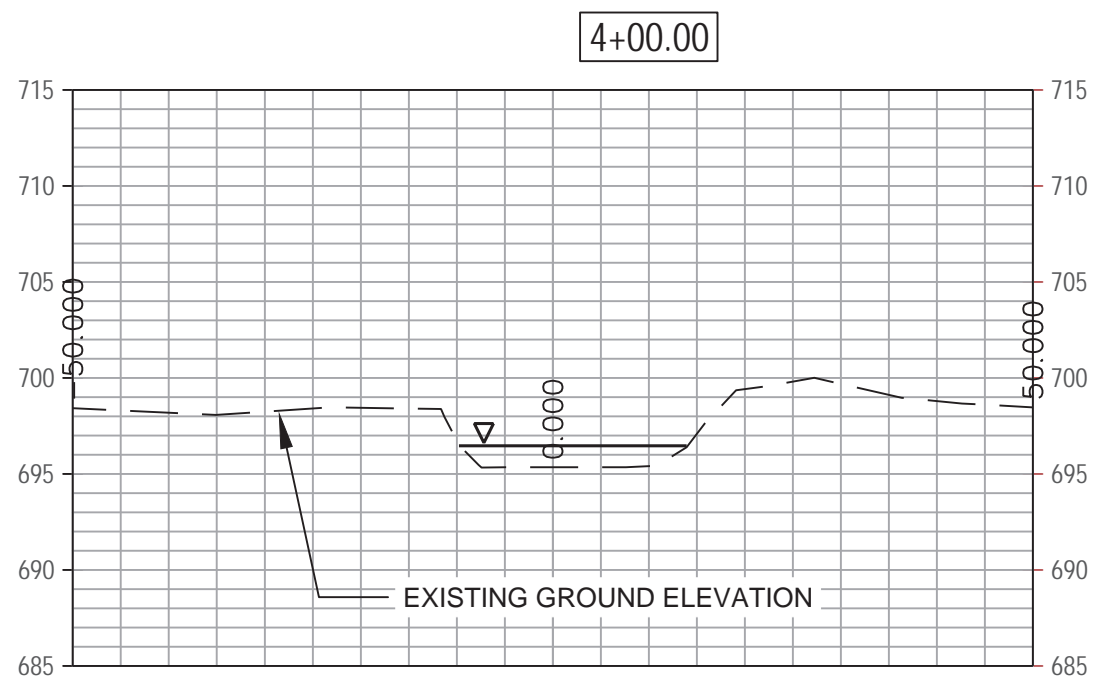
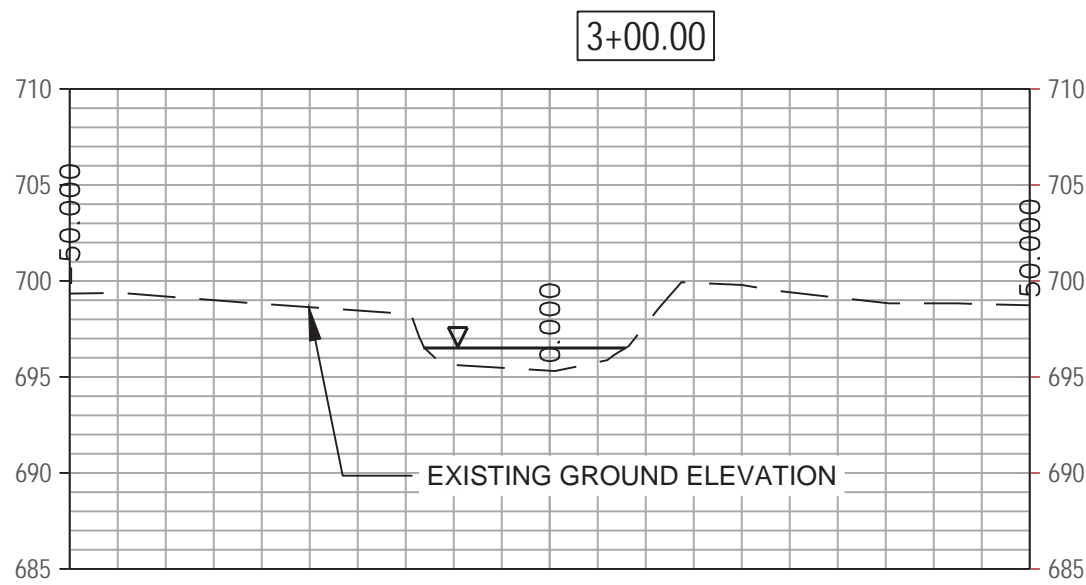
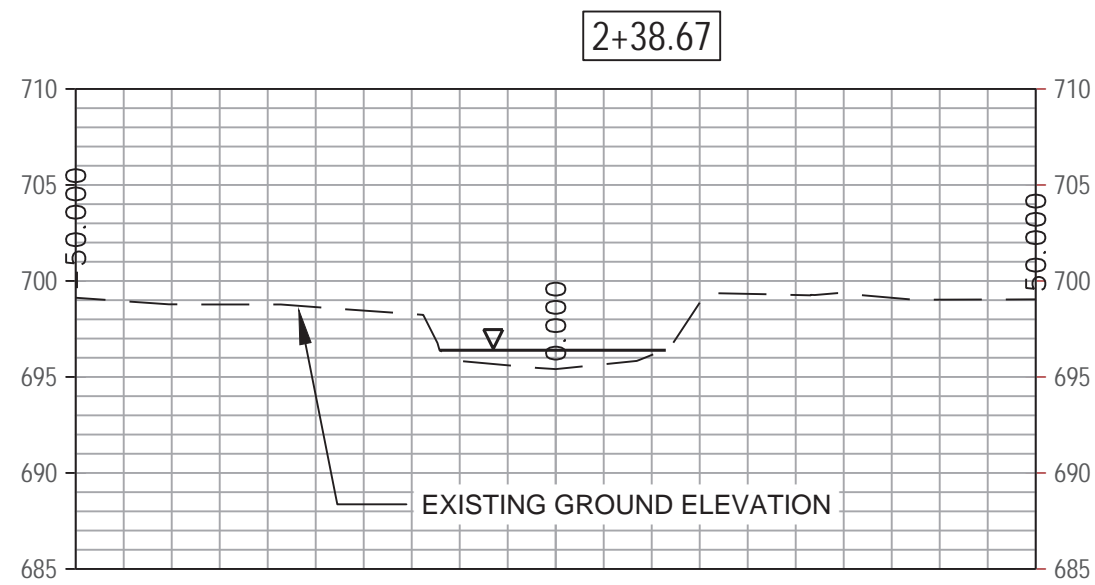
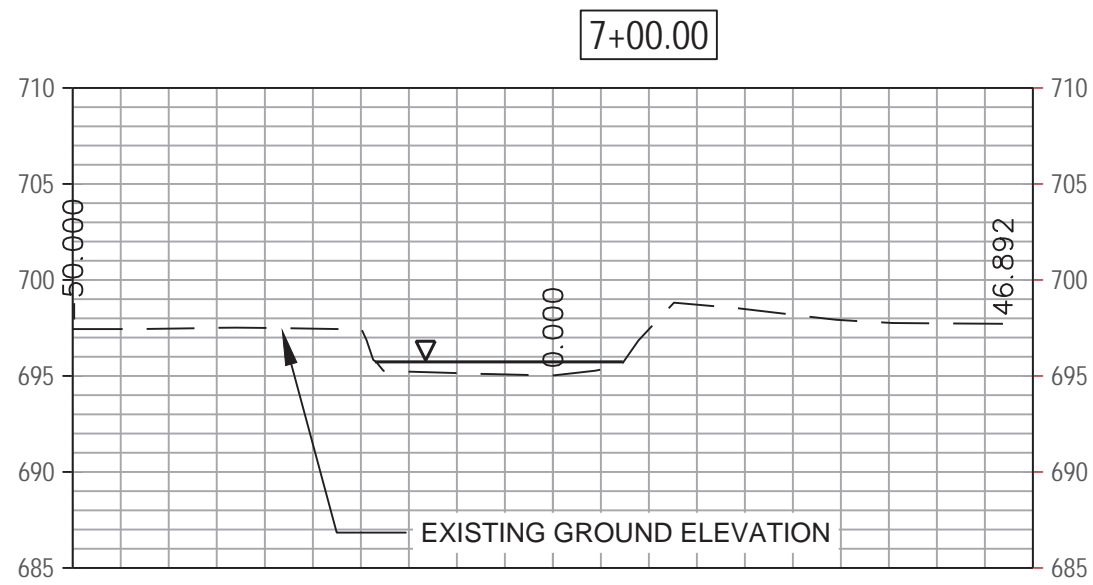
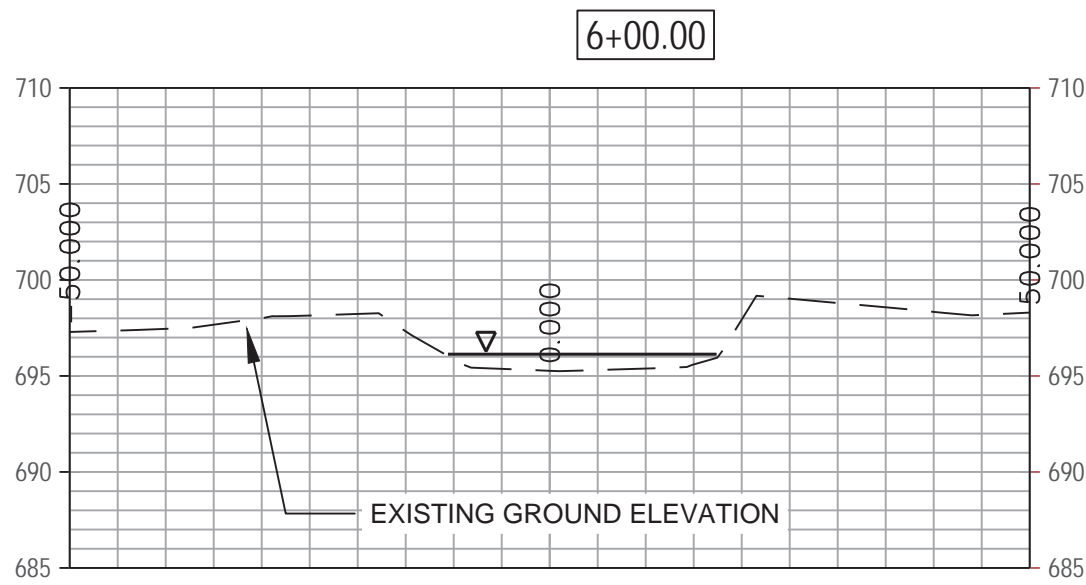
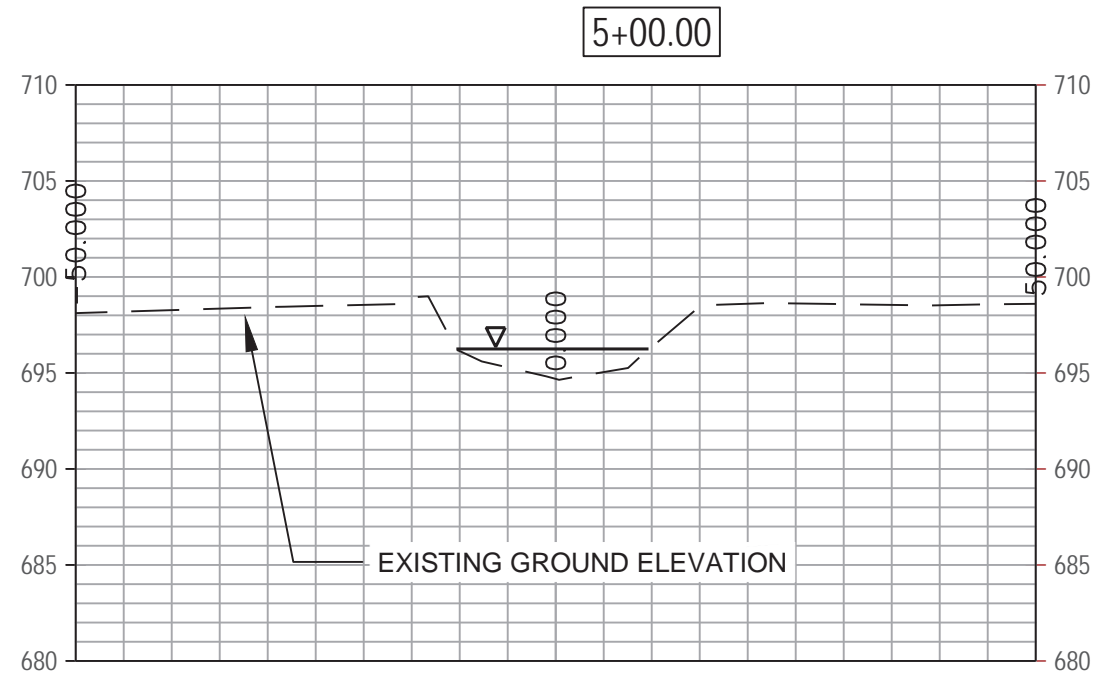
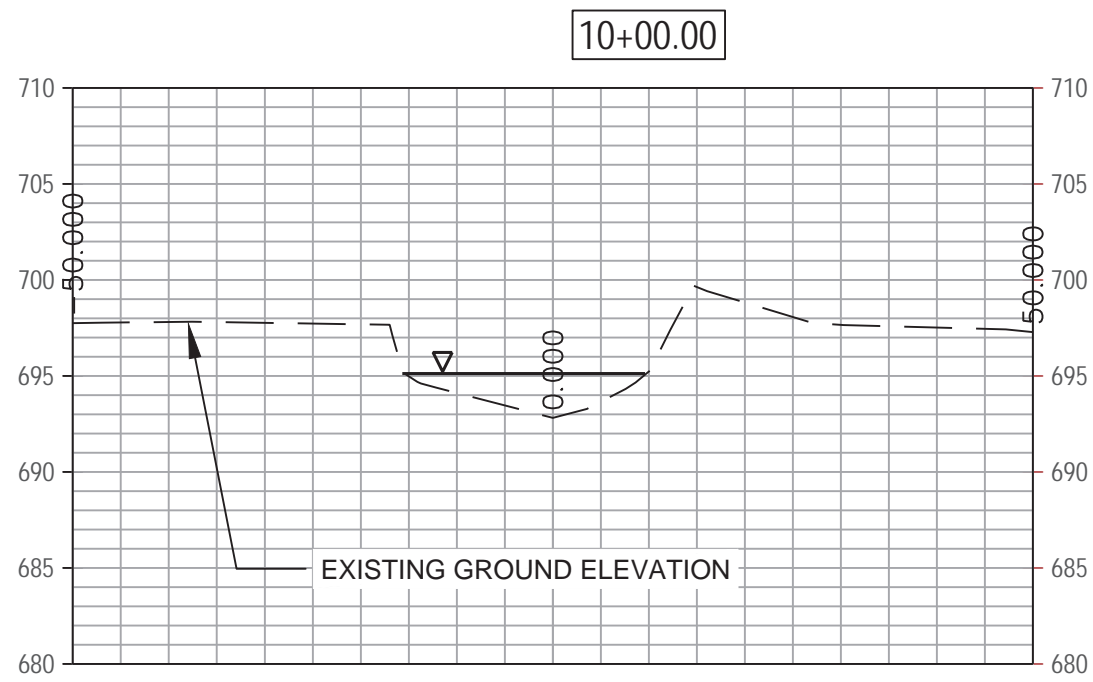
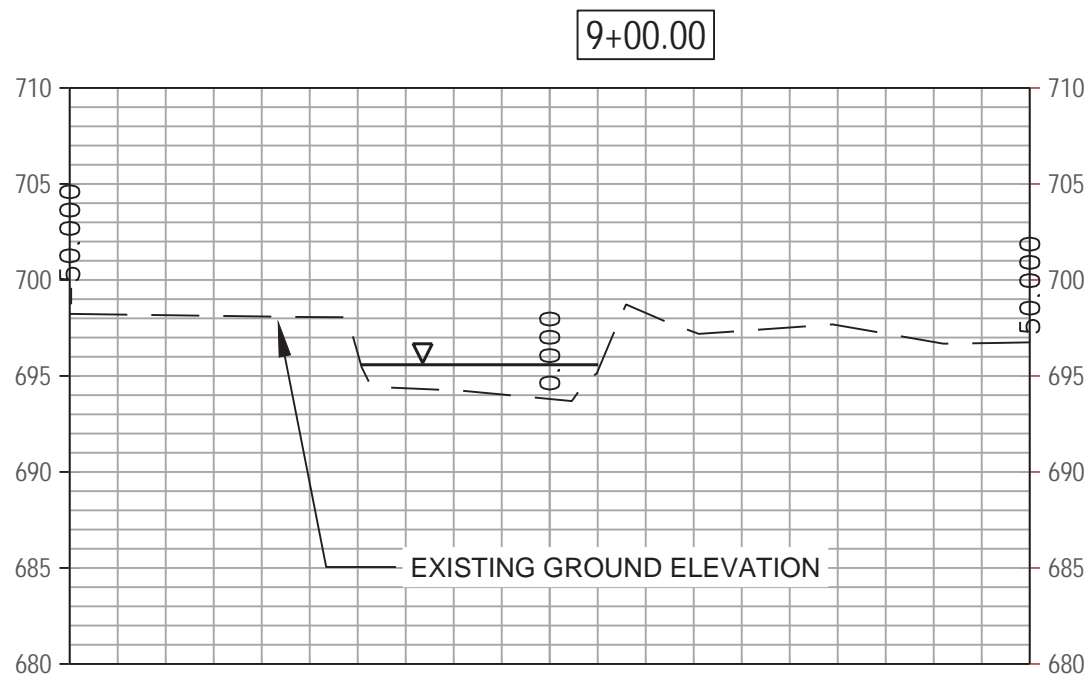
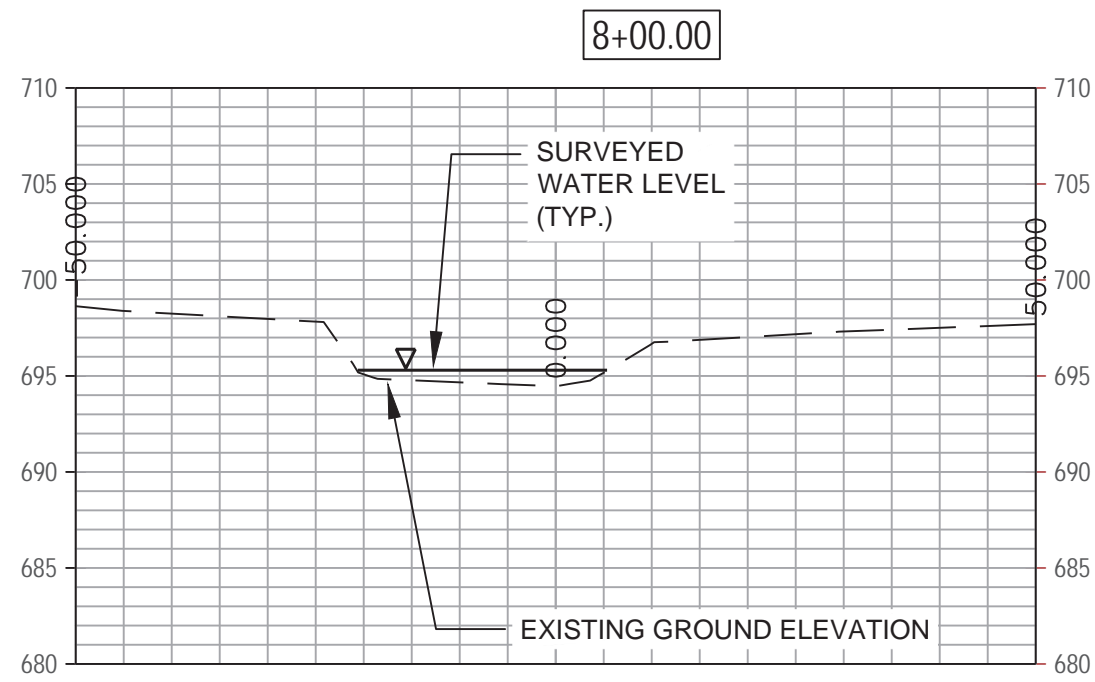
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9

OF 48

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Spring brook existing conditions Alignment.dwg



⚠️ ADDED UPSTREAM CROSS-SECTIONS, LABELED WATER SURFACE ON ALL SHEETS

OWNER: STREET ADDRESS:
3 S 580 NAPERVILLE ROAD
WHEATON, IL 60189-8761

MAILING ADDRESS:
P.O. BOX 5000
WHEATON, IL 60189-5000

CONTACT NUMBERS:
PH# 630-933-7200
FAX# 630-933-7204

BLACKWELL FOREST PRESERVE SPRING BROOK PHASE III

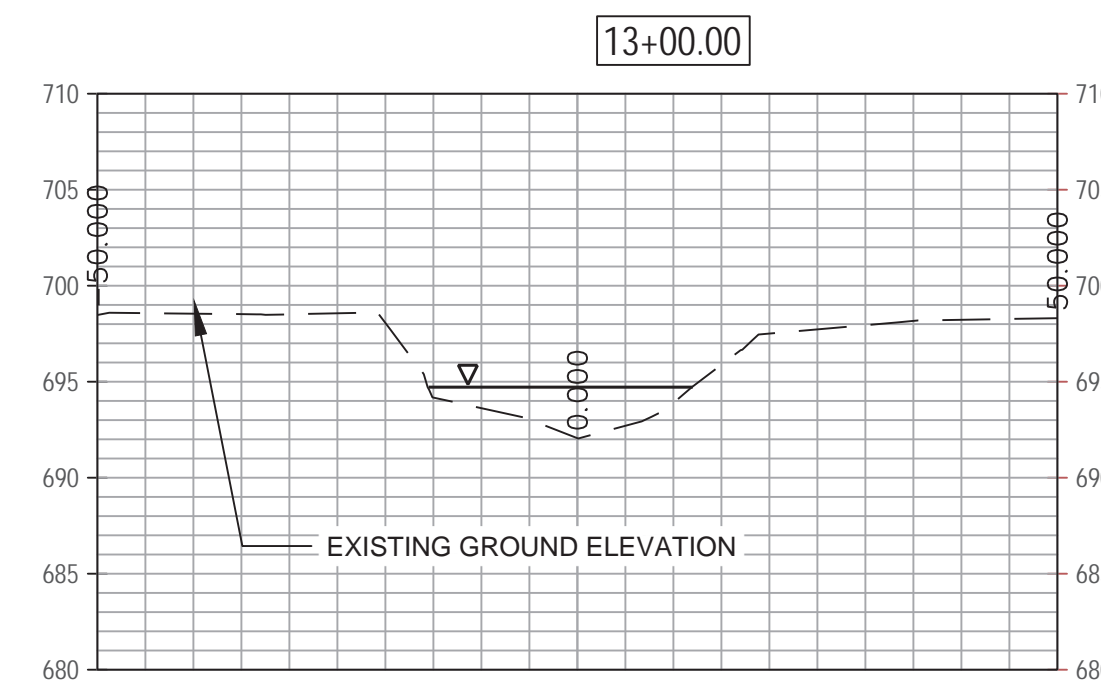
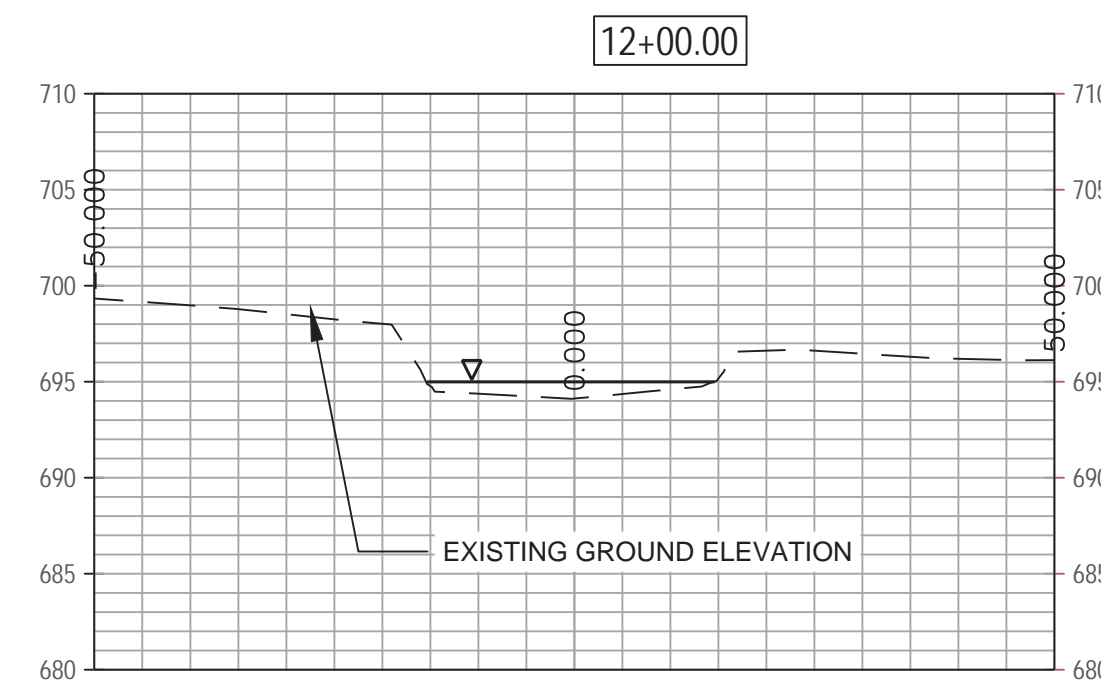
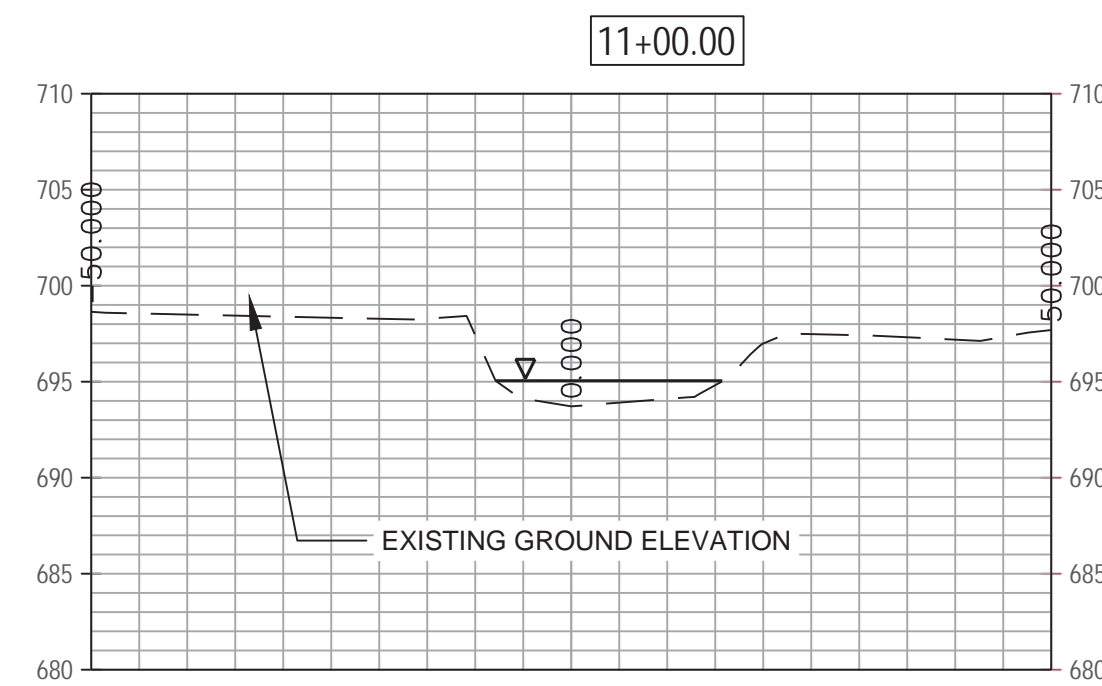
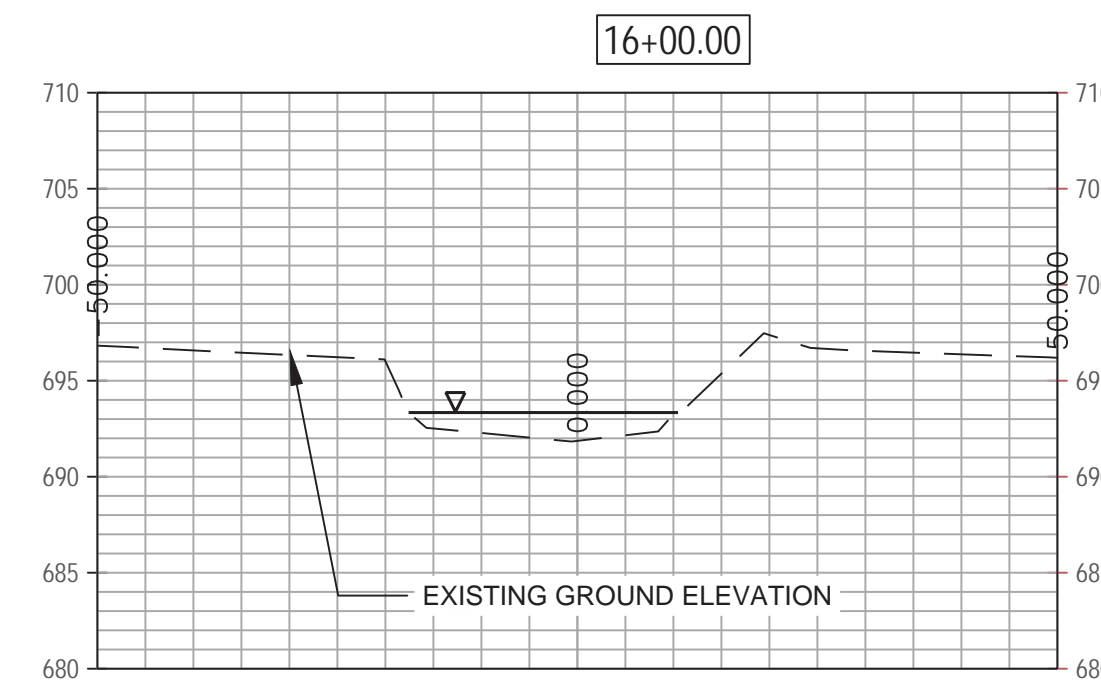
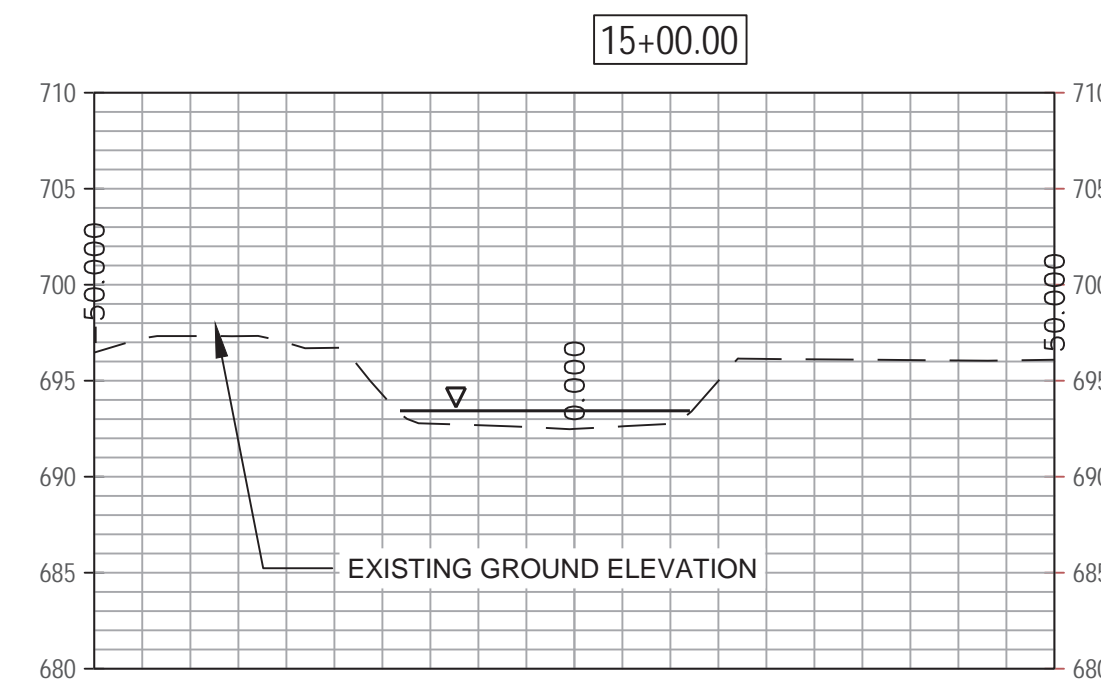
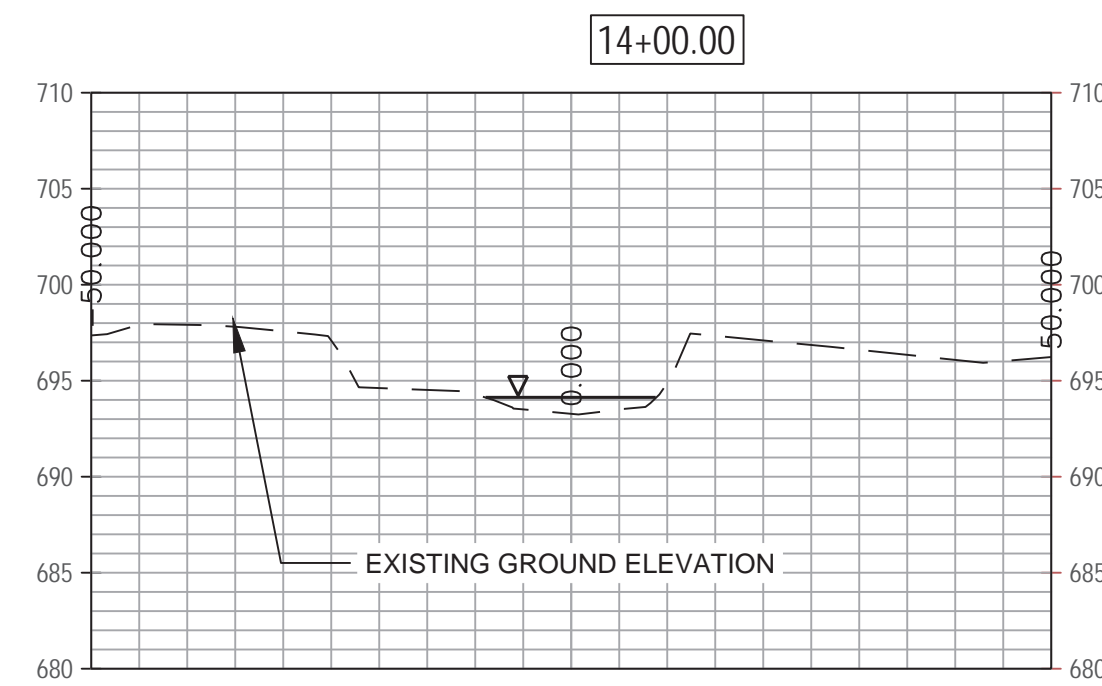
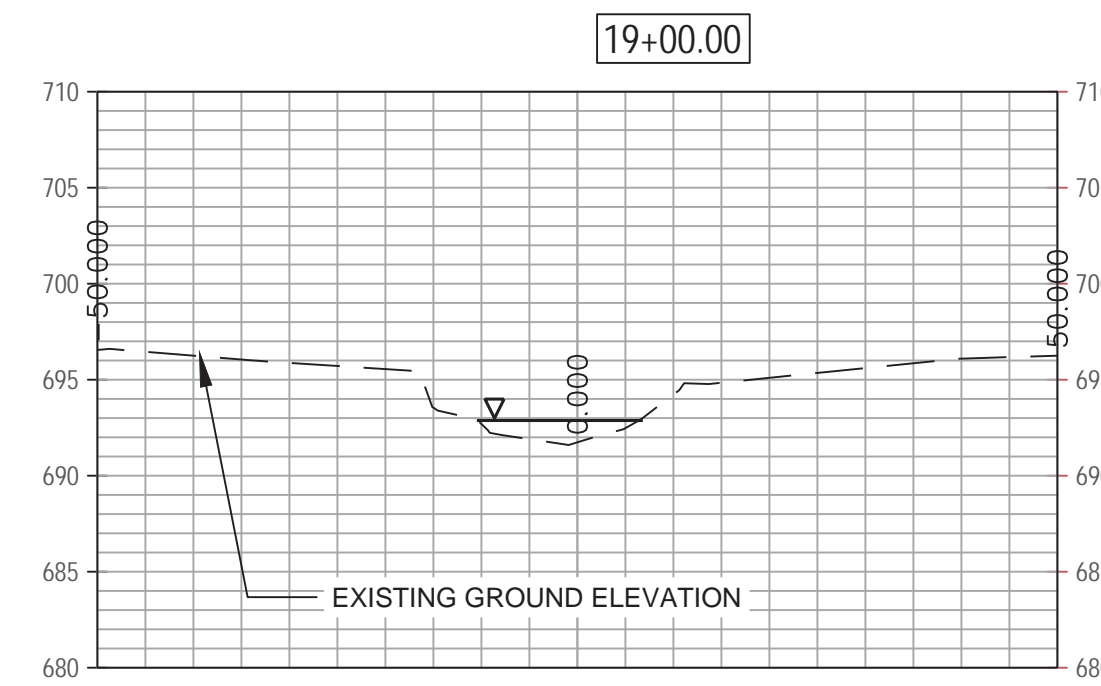
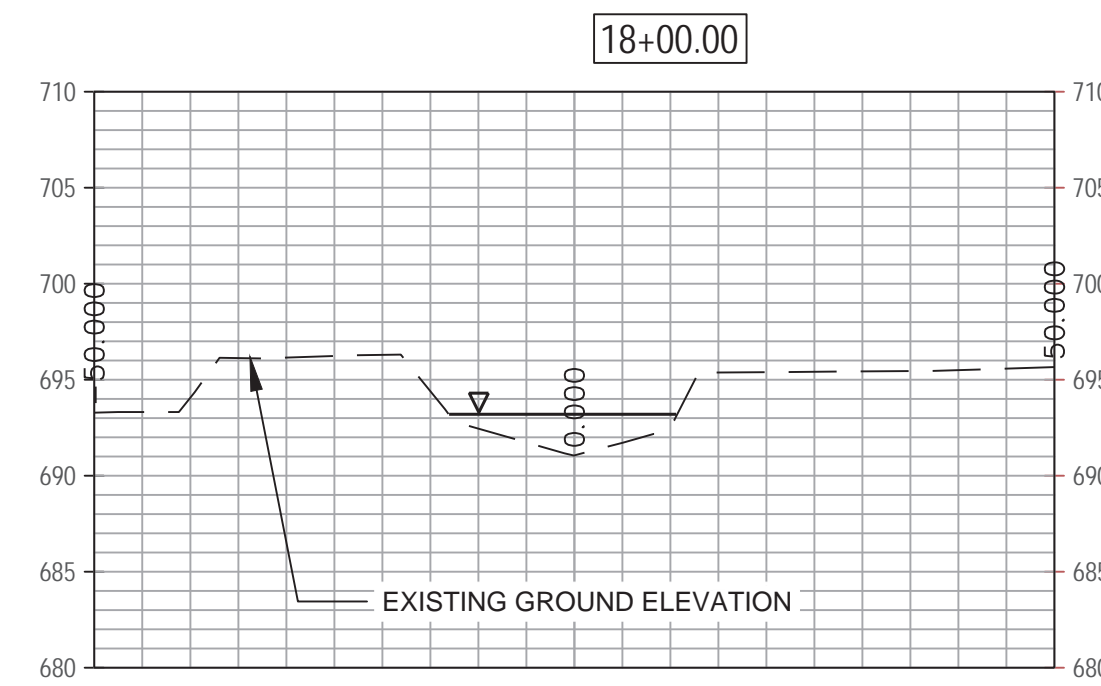
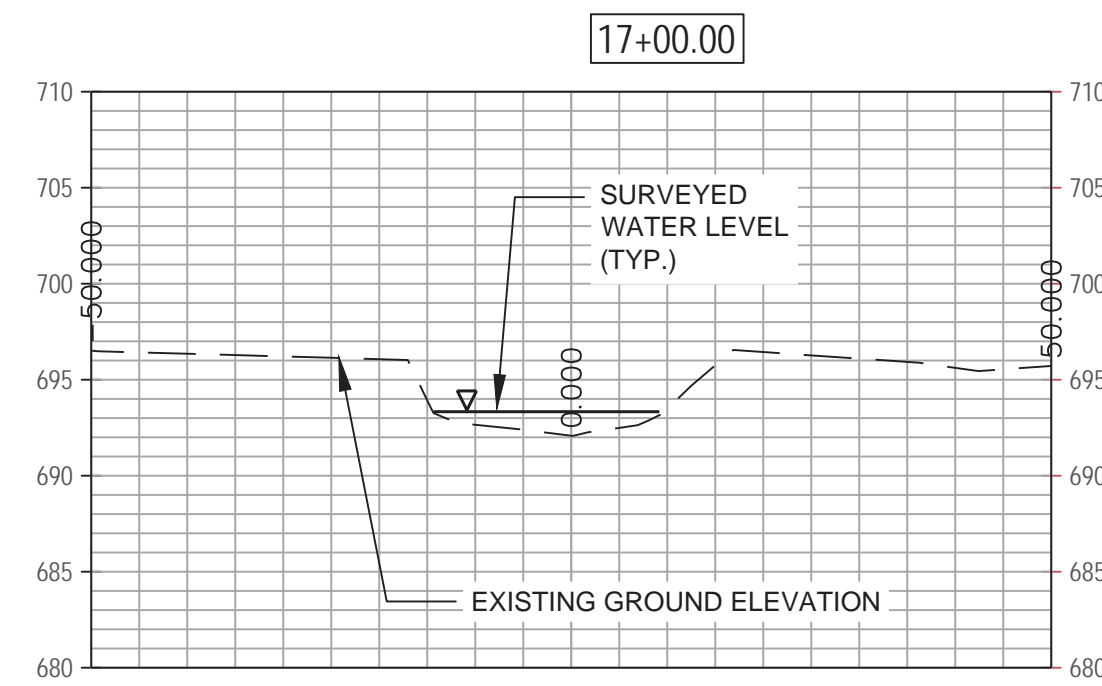
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CHECKED BY:
DATE: August 28, 2024
SCALE:

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EXISTING CROSS
SECTIONS

SHEET NO:
EX 1.07
SHEET 10 OF 48

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OWNER:

STREET ADDRESS:

S 580 NAPERVILLE ROAD

WHEATON, IL 60189-8761

MAILING ADDRESS:

P.O. BOX 5000

ATON, IL 60189-5000

CONTACT NUMBERS:

PH# 630-933-7200

AX# 630-933-7204

BLACKWELL FOREST PRESERVE

SPRING BROOK PHASE III

SPRING BROOK PHASE III

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PROJECT NO:	Z-023-101
DRAWN BY:	
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DATE:	August 28, 2024
SCALE:	

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CHECKED BY:

DATE: _____
PAGE: _____

SCALE: _____

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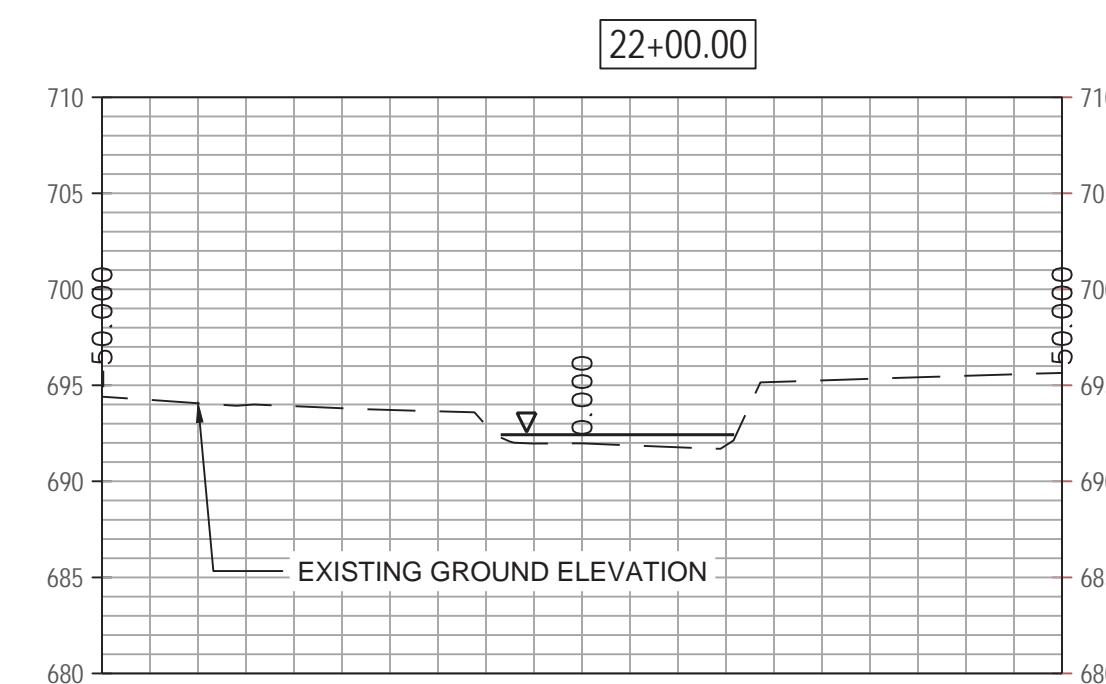
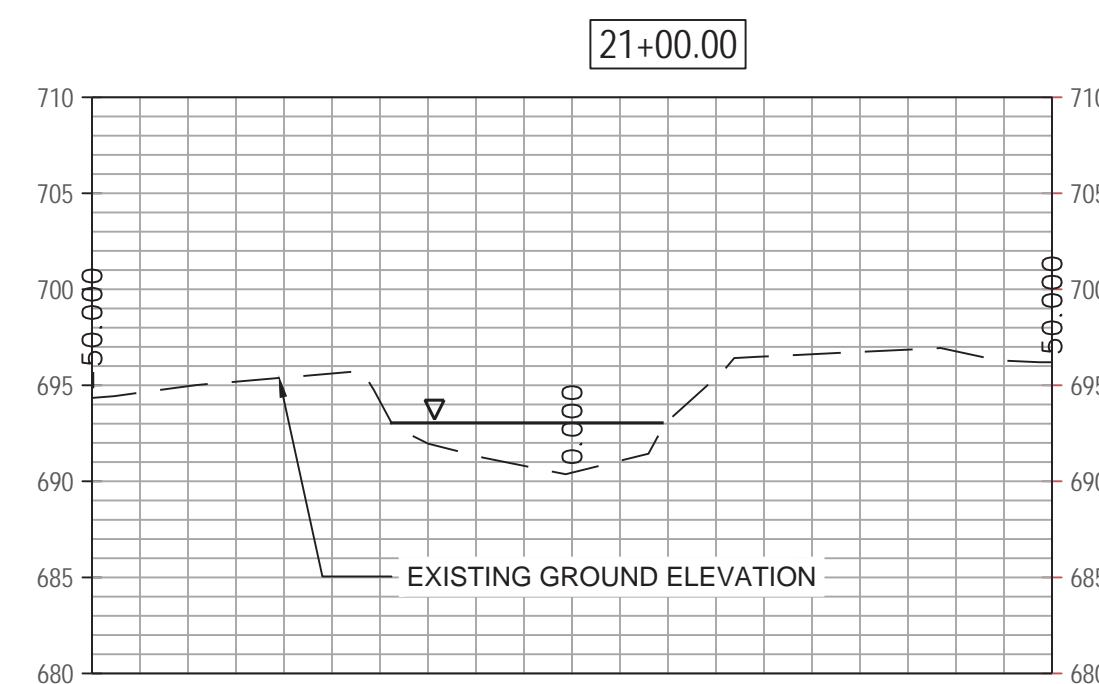
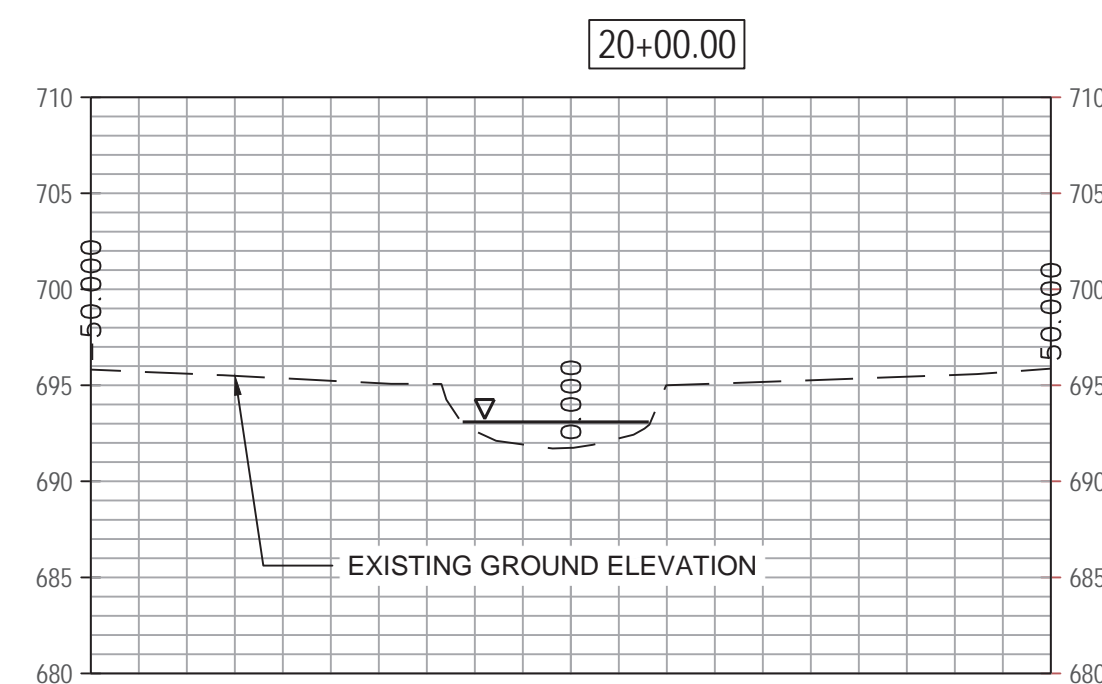
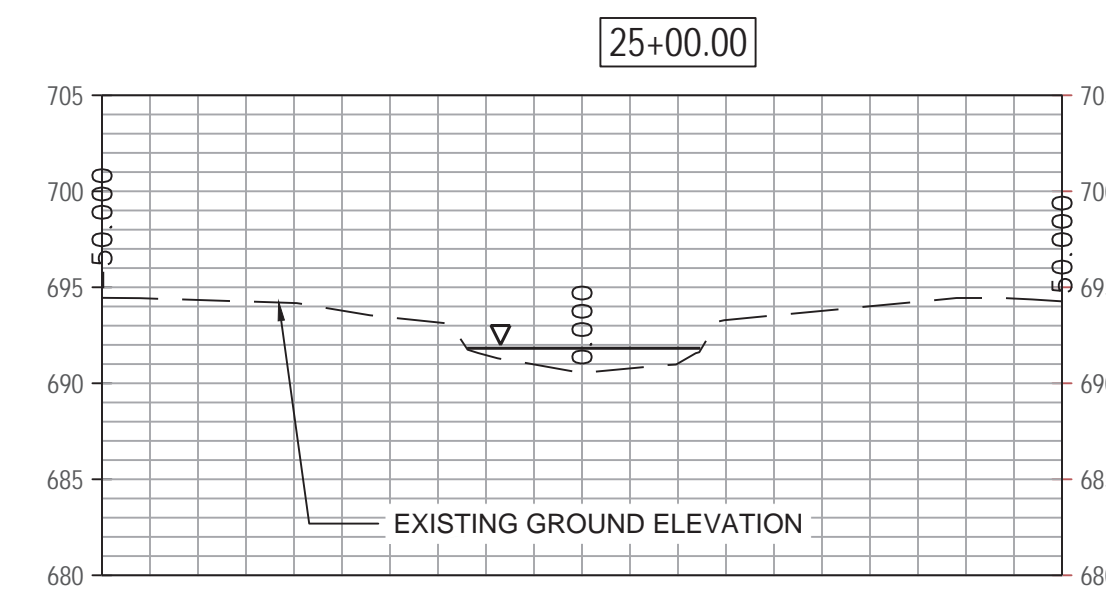
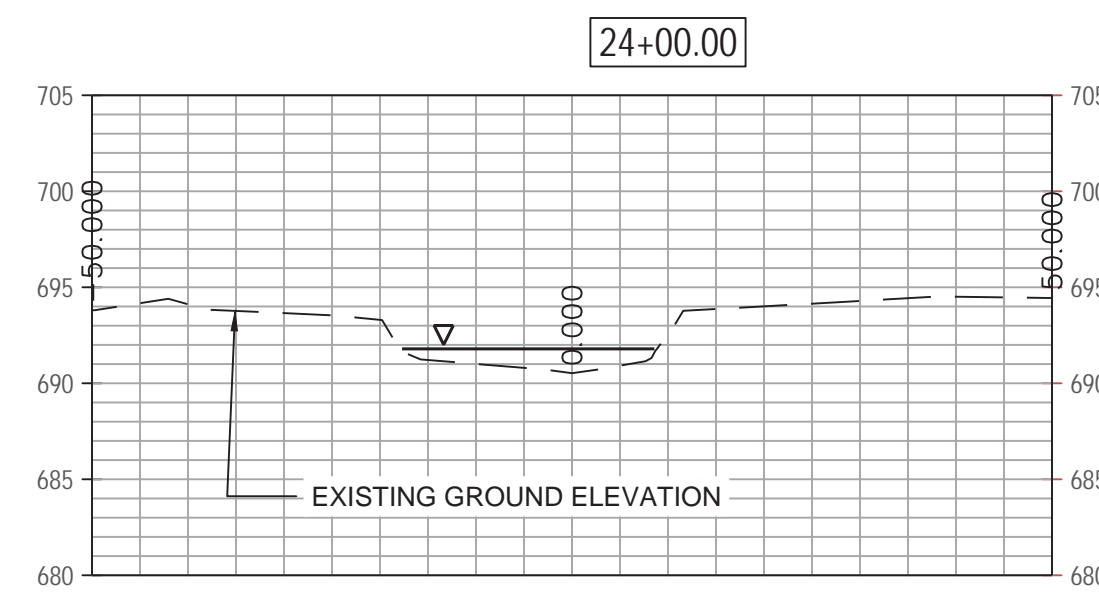
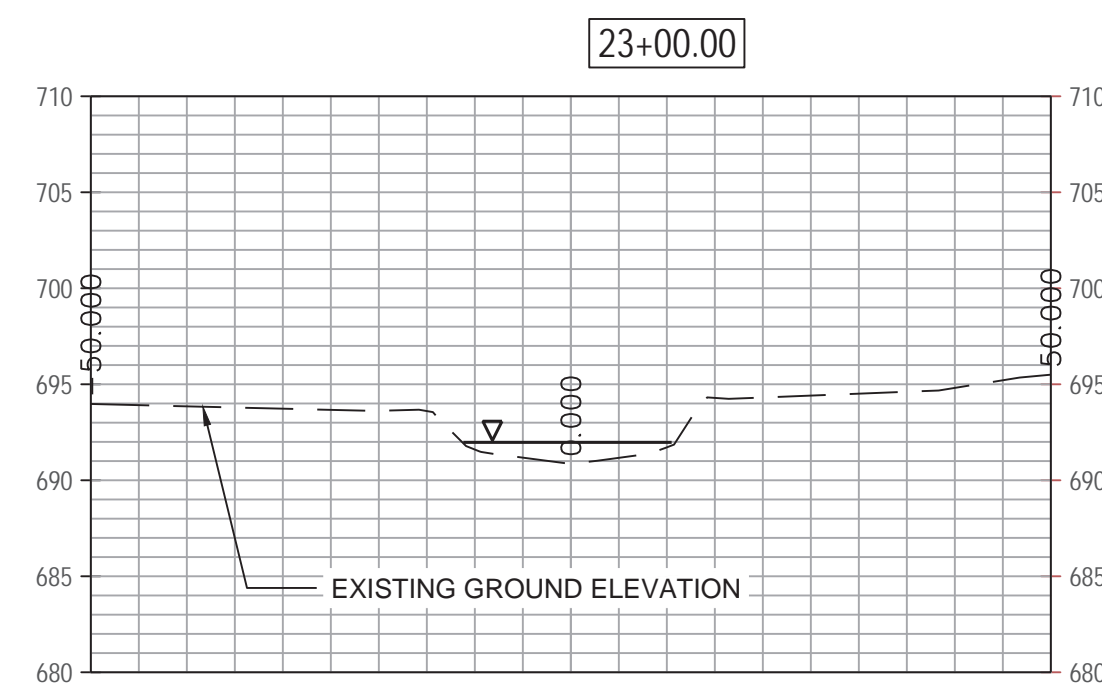
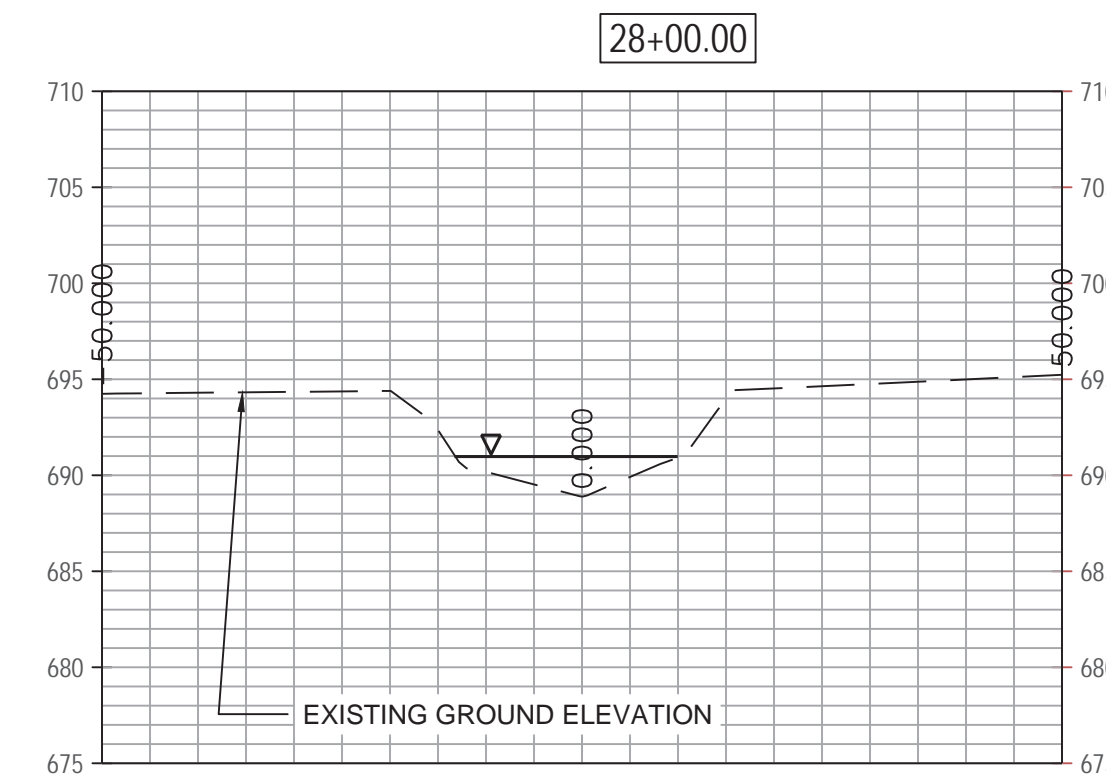
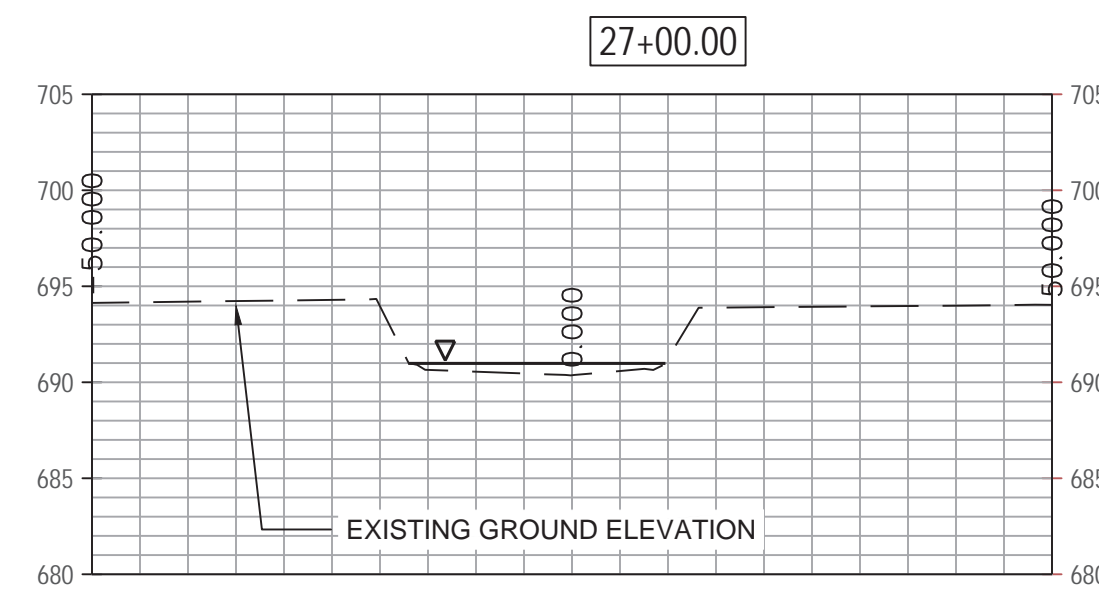
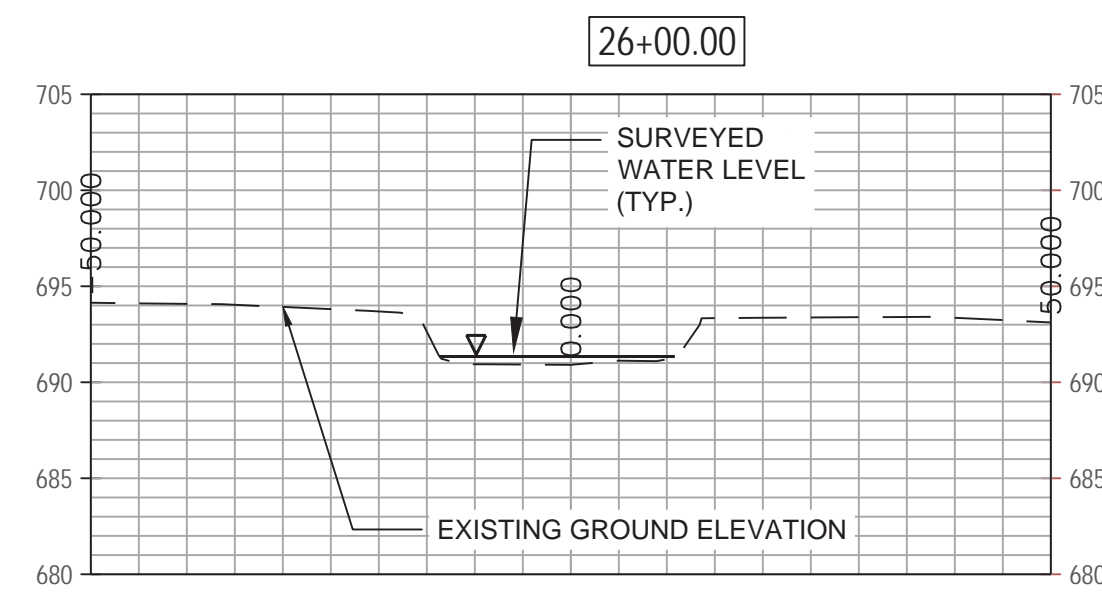
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EX 1.08

SHEET 11 OF 48

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STREET ADDRESS:
S 580 NAPERVILLE ROAD
WHEATON, IL 60189-8761

MAILING ADDRESS:
P.O. BOX 5000
WHEATON, IL 60189-5000

CONTACT NUMBERS:
PH# 630-933-7200
FAX# 630-933-7204

BLACKWELL FOREST PRESERVE

SPRING BROOK PHASE III

•		
•		
•		
•		
•		

#A人#

SUBCONSULTANT:

1111

#FA#

CONSULTANT.

[illegible]

PROJECT NO:	Z-023-101
DRAWN BY:	
CHECKED BY:	
DATE:	August 28, 2024
SCALE:	

SHEET TITLE:

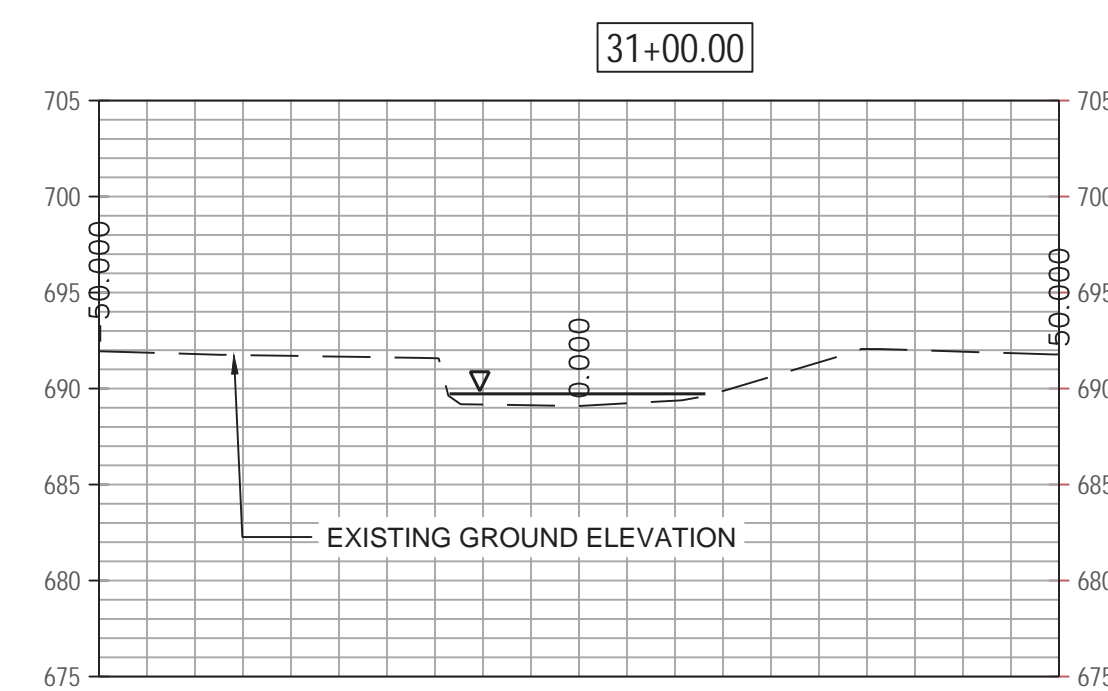
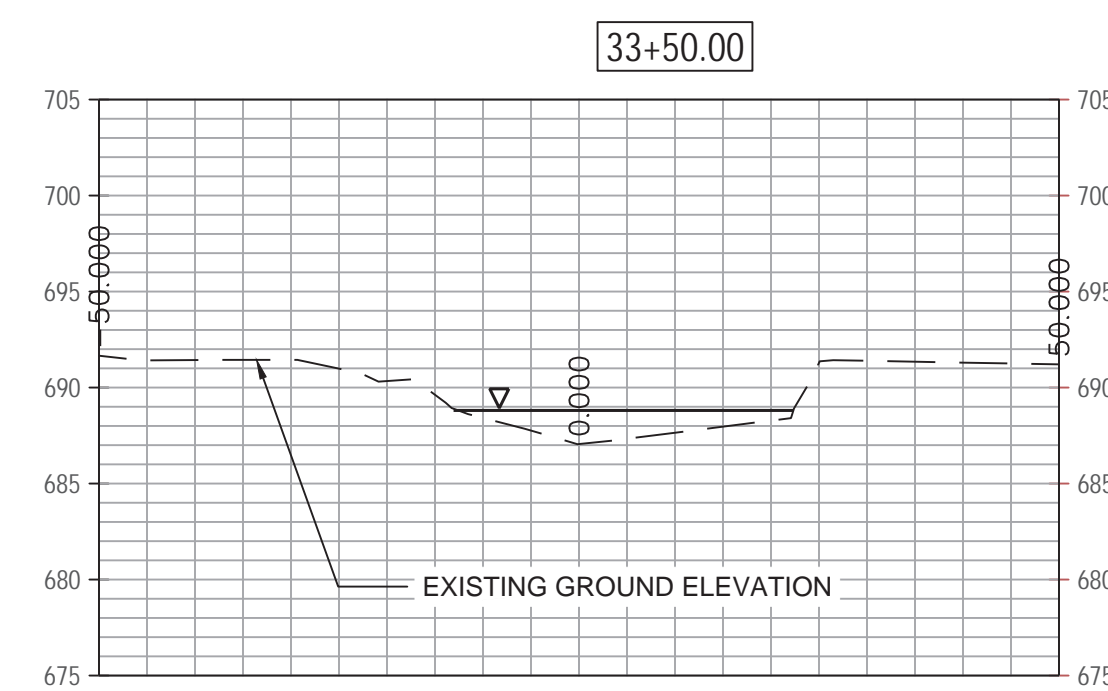
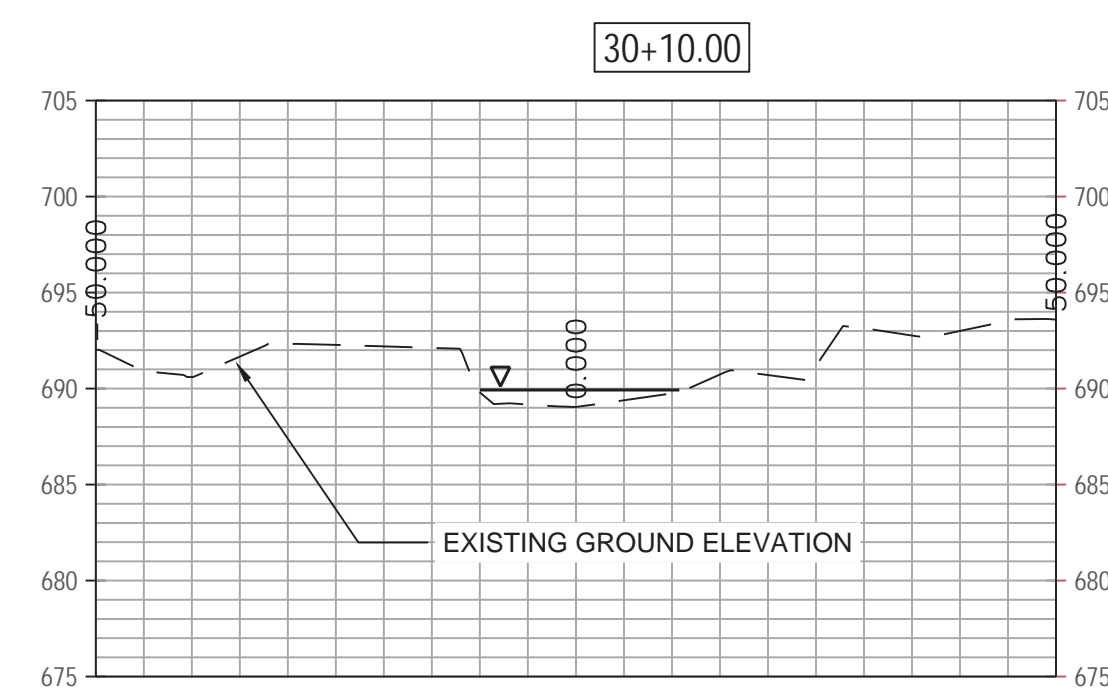
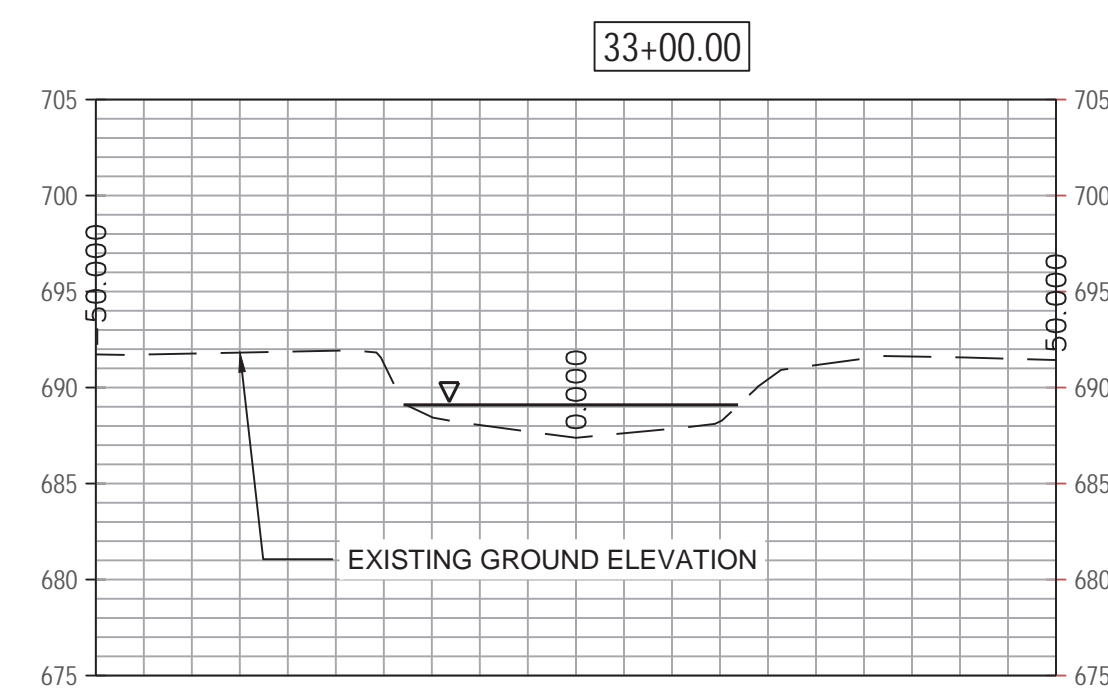
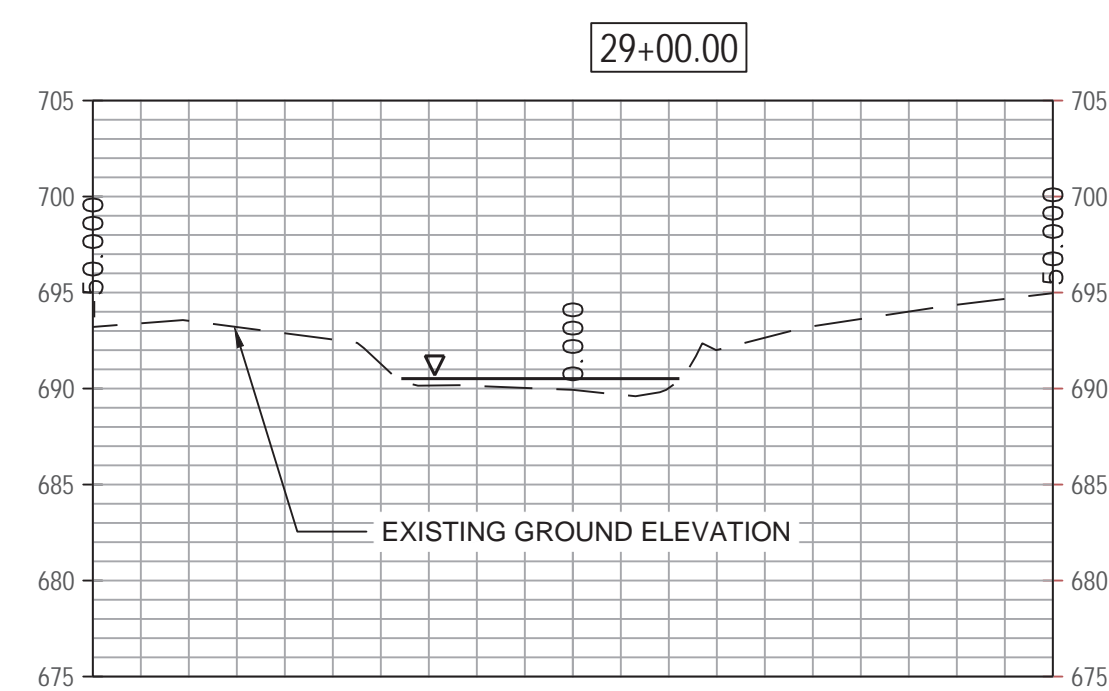
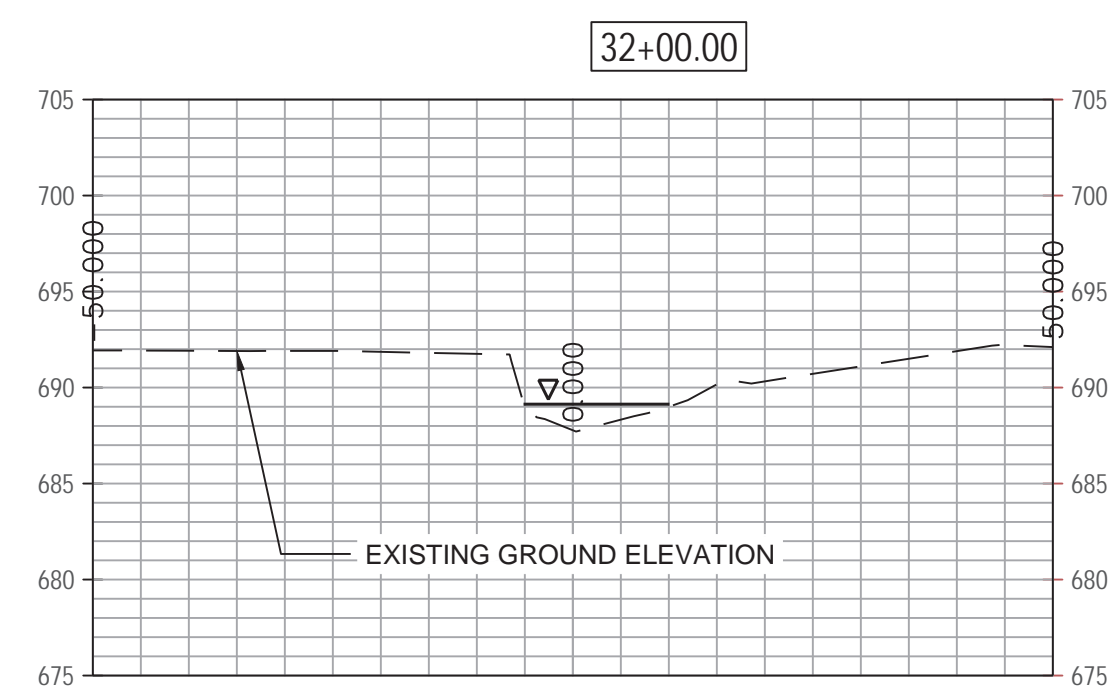
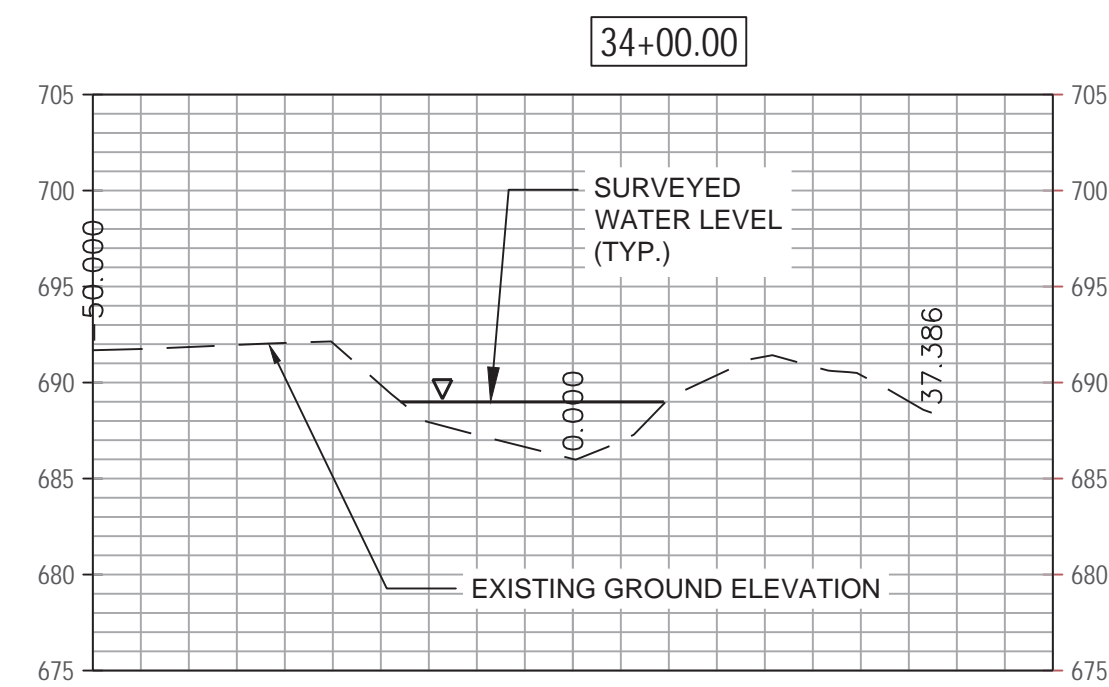
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SECTIONS

SHEET NO:

EX 1.09

SHEET 12 OF 48

CAD DWG FILE: \Dept - Planning\DRAWMSKPROJ\Z-023-101\Drawing\CAD\Final dwg\ Spring brook existing conditions Alignment.dwg



STREET ADDRESS:
S 580 NAPERVILLE ROAD

MAILING ADDRESS:
P.O. BOX 5000
HEATON, IL 60189-5000

CONTACT NUMBERS:
PH# 630-933-7200
FAX# 630-933-7204

BLACKWELL FOREST PRESERVE

SPRING BROOK PHASE III

[illegible]

.....

[illegible]

.....

[illegible]

PROJECT NO:	Z-023-101
DRAWN BY:	
CHECKED BY:	
DATE:	August 28, 2024
SCALE:	

SHEET TITLE:

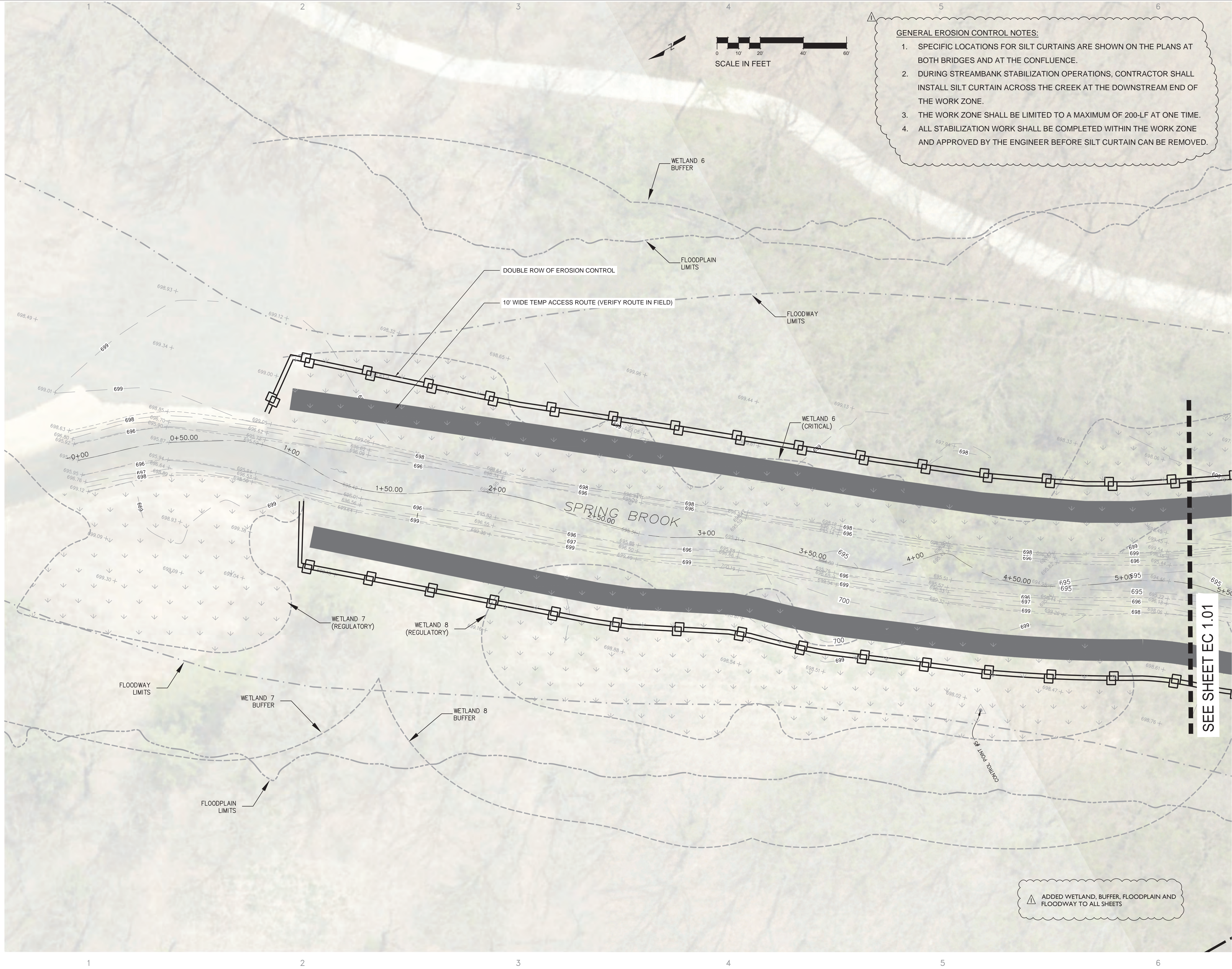
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SECTIONS

SHEET NO:

EX 1.10

SHEET 13 OF 48

CAD DWG FILE: \Dept - Planning\DRAW\SDSKPROJ\Z-023-101\Drawing\CAD\Final dwg\ Spring brook existing conditions Alignment.dwg



- GENERAL EROSION CONTROL NOTES:**
1. SPECIFIC LOCATIONS FOR SILT CURTAINS ARE SHOWN ON THE PLANS AT BOTH BRIDGES AND AT THE CONFLUENCE.
 2. DURING STREAMBANK STABILIZATION OPERATIONS, CONTRACTOR SHALL INSTALL SILT CURTAIN ACROSS THE CREEK AT THE DOWNSTREAM END OF THE WORK ZONE.
 3. THE WORK ZONE SHALL BE LIMITED TO A MAXIMUM OF 200-LF AT ONE TIME.
 4. ALL STABILIZATION WORK SHALL BE COMPLETED WITHIN THE WORK ZONE AND APPROVED BY THE ENGINEER BEFORE SILT CURTAIN CAN BE REMOVED.

OWNER: **FOREST PRESERVE DISTRICT**
DU PAGE COUNTY

STREET ADDRESS:
3 S 580 NAPERVILLE ROAD
WHEATON, IL 60189-8761

MAILING ADDRESS:
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WHEATON, IL 60189-5000

CONTACT NUMBERS:
PH# 630-933-7200
FAX# 630-933-7204

**BLACKWELL FOREST PRESERVE
SPRING BROOK PHASE III**

MARK:	DATE:	DESCRIPTION:

PROJECT NO: Z-023-101
DRAWN BY:
CHECKED BY:
DATE: August 28, 2024
SCALE:

SHEET TITLE:
**EROSION CONTROL
AND DEMO PLAN**

SHEET NO:
EC 1.00

SHEET 14 OF 48



OWNER: STREET ADDRESS:
3 S 580 NAPERVILLE ROAD
WHEATON, IL 60189-8761

MAILING ADDRESS:
P.O. BOX 5000
WHEATON, IL 60189-5000

CONTACT NUMBERS:
PH# 630-933-7200
FAX# 630-933-7204

BLACKWELL FOREST PRESERVE SPRING BROOK PHASE III

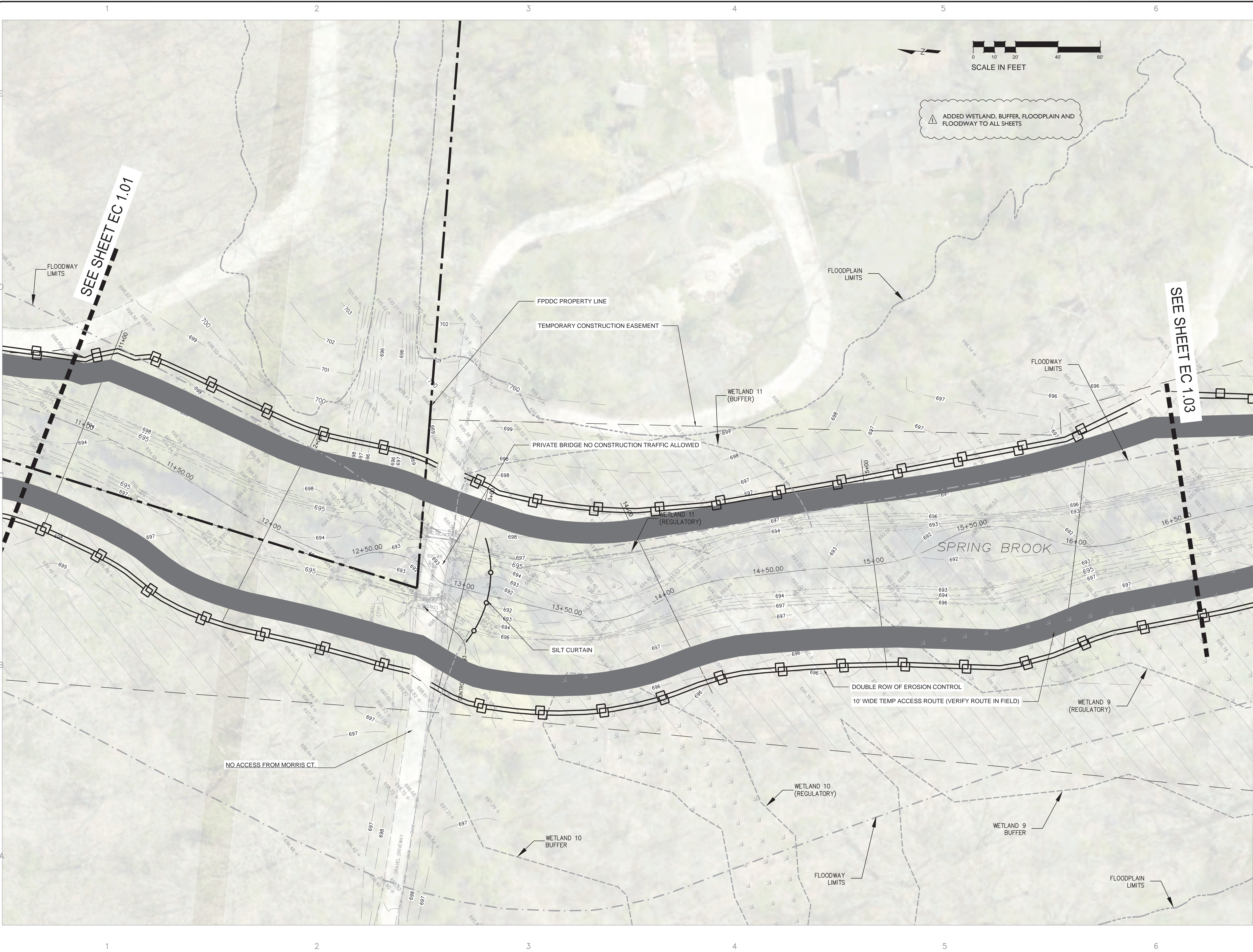
MARK:	DATE:	DESCRIPTION:

PROJECT NO: Z-023-101
DRAWN BY:
CHECKED BY:
DATE: August 28, 2024
SCALE:

SHEET TITLE:
EROSION CONTROL
AND DEMO PLAN

SHEET NO:
EC 1.01
SHEET 15 OF 48

CAD DWG FILE: \\pwr-planning\DRAWINGS\PROJECTS\Z-023-101\Drawing\CA\Drawal.dwg; Spring Brook Erosion Control and Restoration Sheets.dwg



OWNER: STREET ADDRESS:
3 S 580 NAPERVILLE ROAD
WHEATON, IL 60189-8761

MAILING ADDRESS:
P.O. BOX 5000
WHEATON, IL 60189-5000

CONTACT NUMBERS:
PH# 630-933-7200
FAX# 630-933-7204

**BLACKWELL FOREST PRESERVE
SPRING BROOK PHASE III**

MARK:	DATE:	DESCRIPTION:

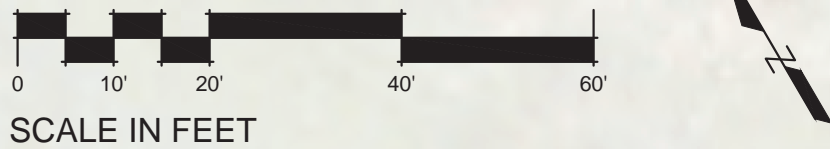
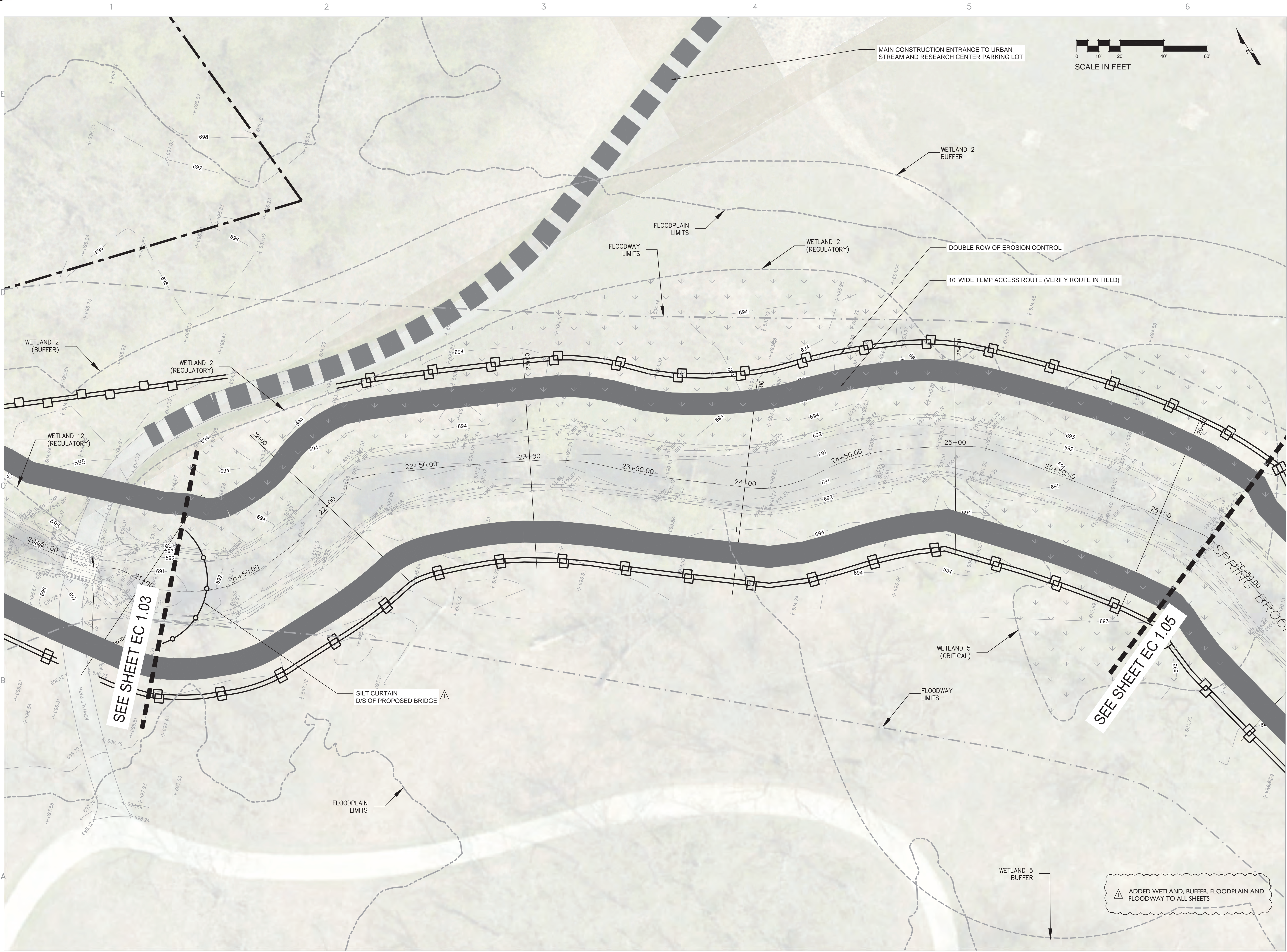
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DRAWN BY:
CHECKED BY:
DATE: August 28, 2024
SCALE:

SHEET TITLE:
**EROSION CONTROL
AND DEMO PLAN**

SHEET NO:
EC 1.02

SHEET 16 OF 48

CAD DWG FILE: \\cwp - Planning\DRAWING\2023\023-101\Drawing\CD\Final.dwg Spring brook Erosion Control and restoration Sheets.dwg



OWNER: STREET ADDRESS:
3 S 580 NAPERVILLE ROAD
WHEATON, IL 60189-8761

MAILING ADDRESS:
P.O. BOX 5000
WHEATON, IL 60189-5000

CONTACT NUMBERS:
PH# 630-933-7200
FAX# 630-933-7204

**BLACKWELL FOREST PRESERVE
SPRING BROOK PHASE III**

MARK:	DATE:	DESCRIPTION:

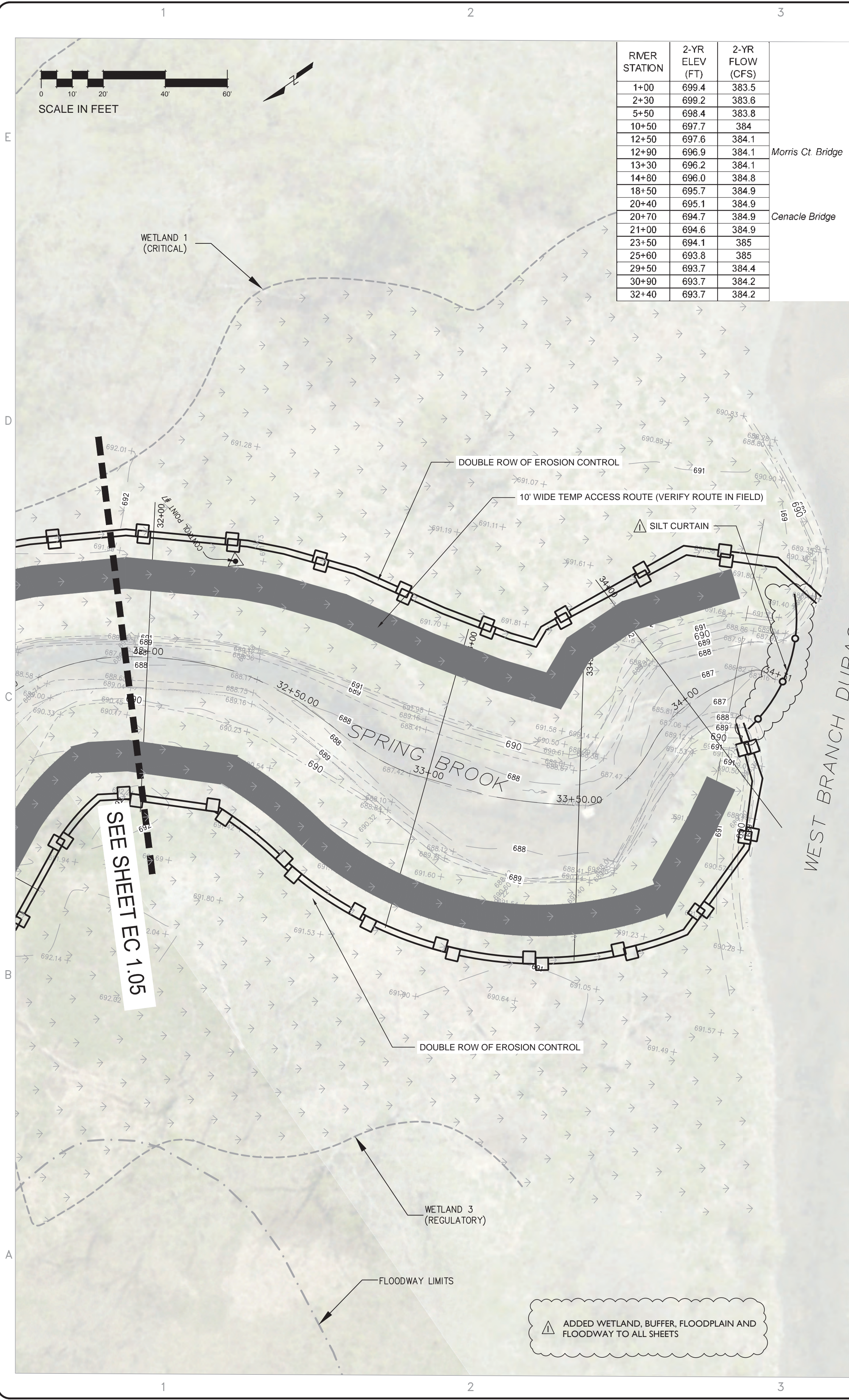
PROJECT NO: Z-023-101
DRAWN BY:
CHECKED BY:
DATE: August 28, 2024
SCALE:

SHEET TITLE:
**EROSION CONTROL
AND DEMO PLAN**

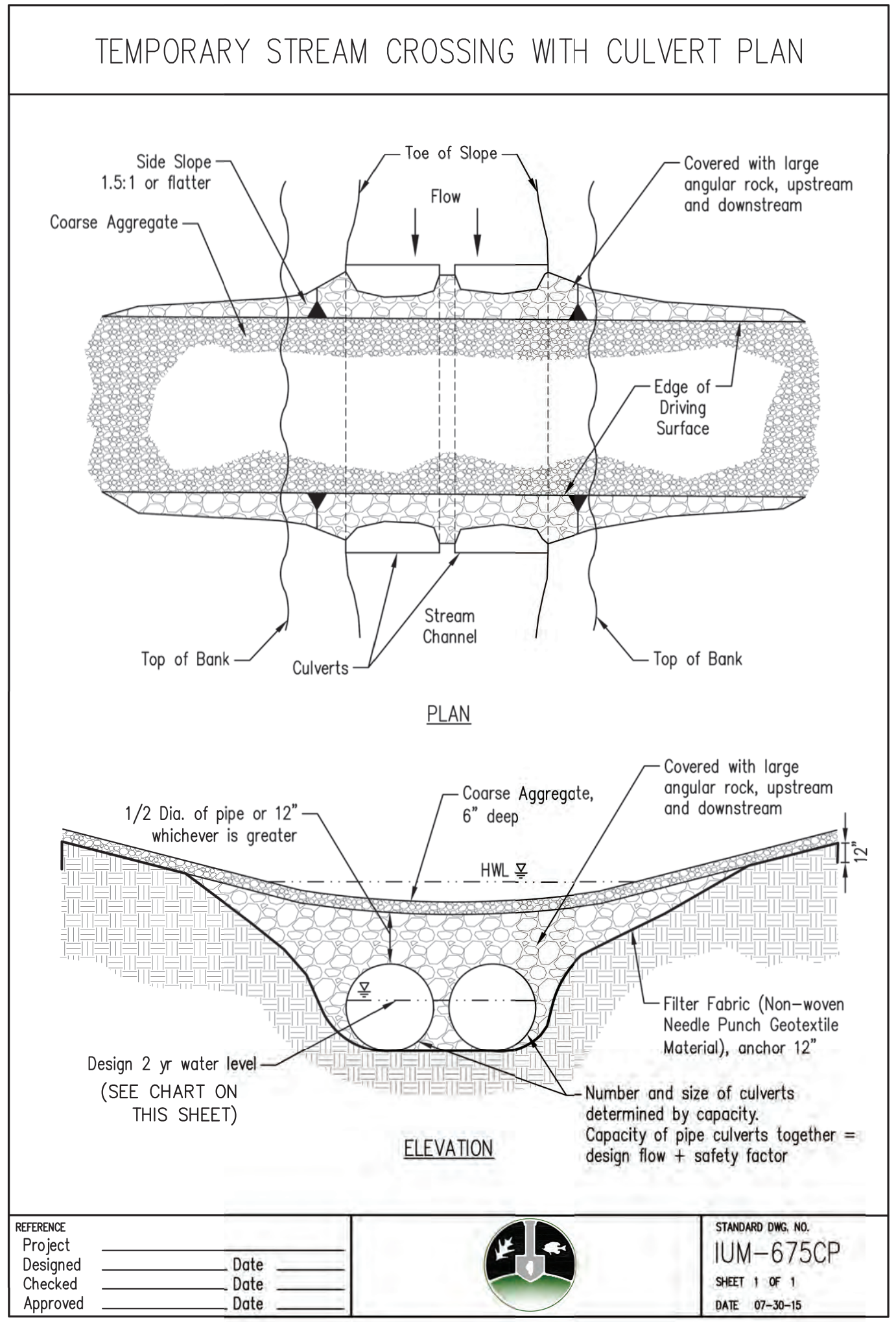
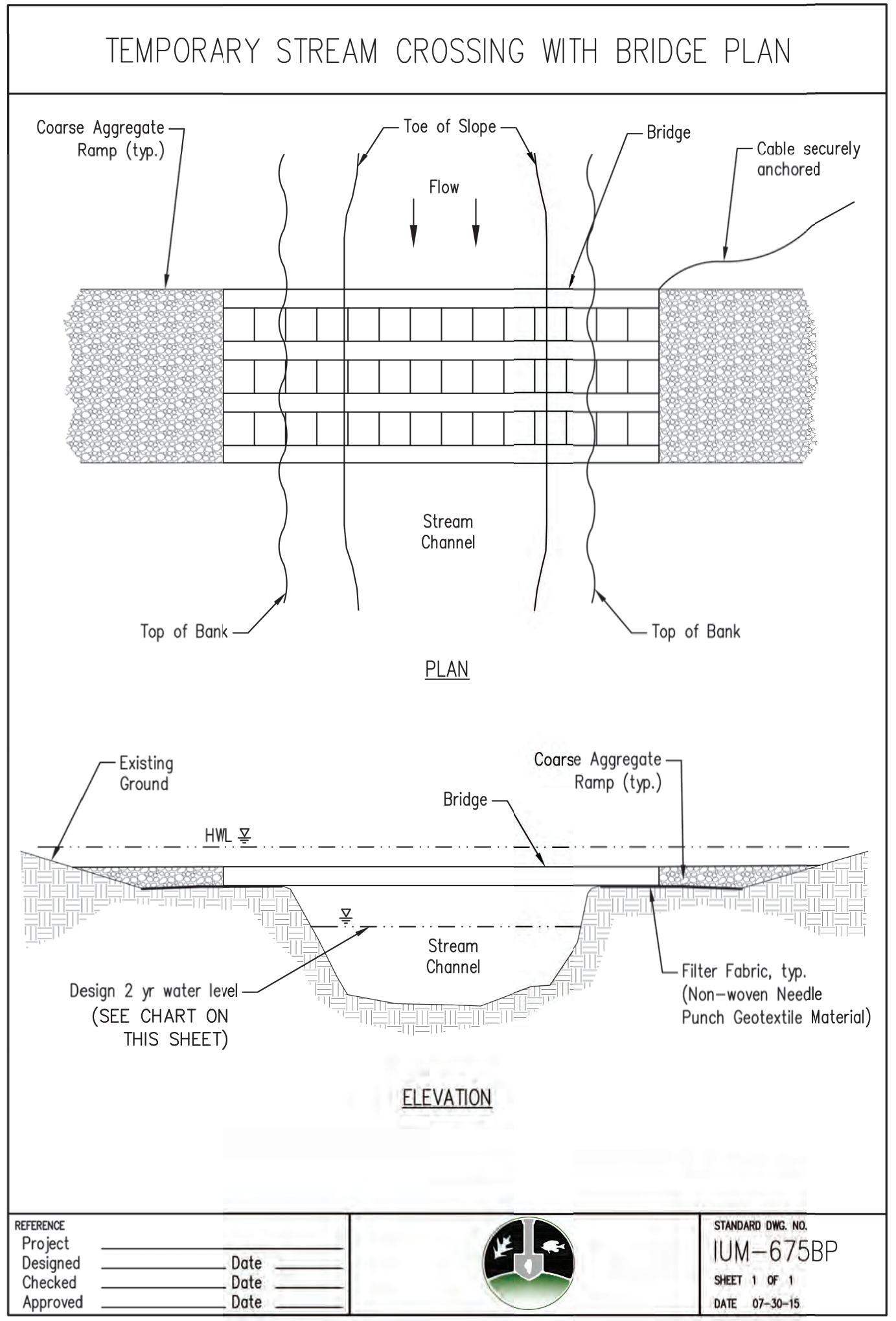
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EC 1.04

SHEET 18 OF 48

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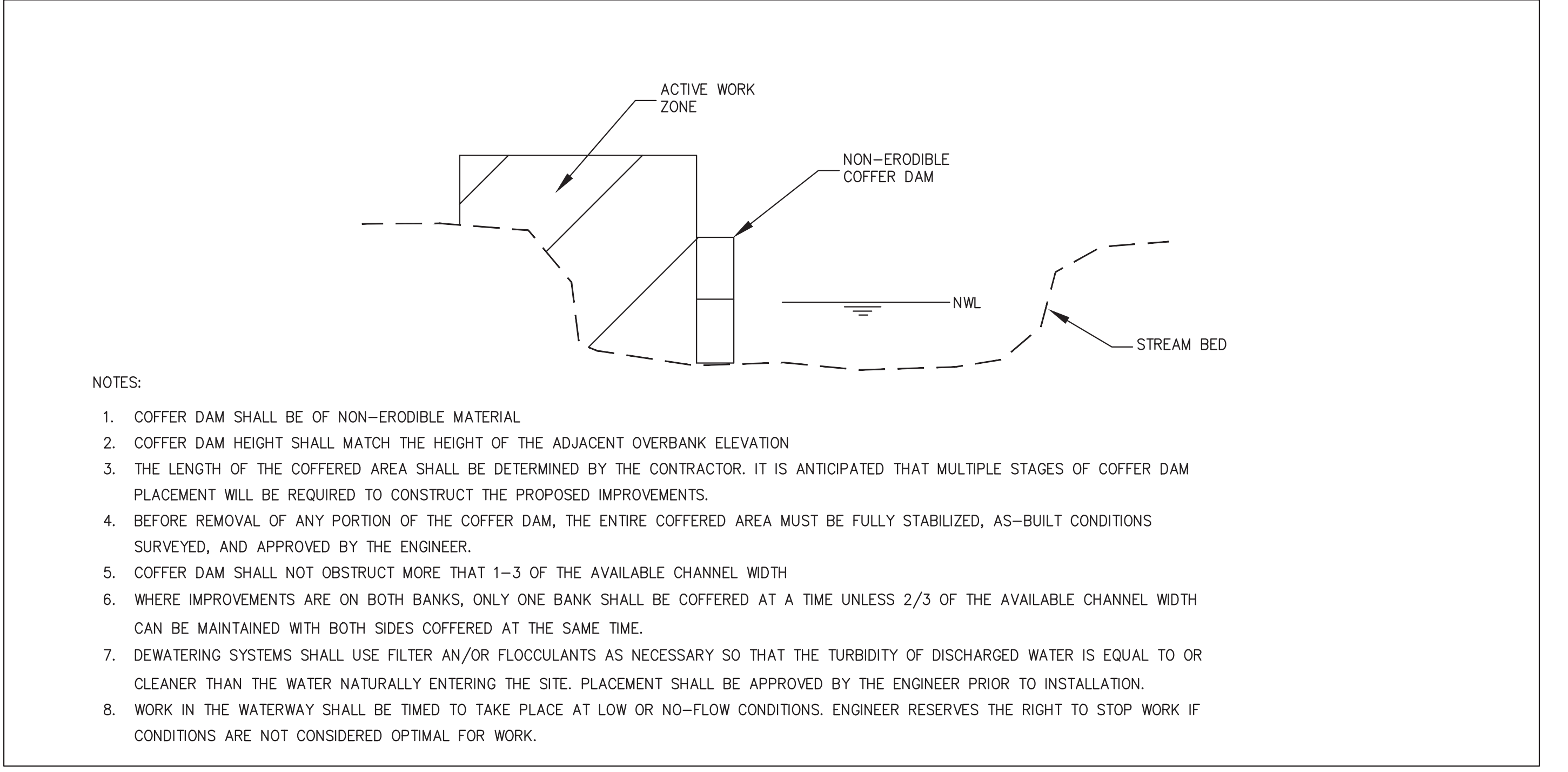


RIVER STATION	2-YR ELEV (FT)	2-YR FLOW (CFS)	
1+00	699.4	383.5	
2+30	699.2	383.6	
5+50	698.4	383.8	
10+50	697.7	384	
12+50	697.6	384.1	
12+90	696.9	384.1	Morris Ct Bridge
13+30	696.2	384.1	
14+80	696.0	384.8	
18+50	695.7	384.9	
20+40	695.1	384.9	
20+70	694.7	384.9	Cenacle Bridge
21+00	694.6	384.9	
23+50	694.1	385	
25+60	693.8	385	
29+50	693.7	384.4	
30+90	693.7	384.2	
32+40	693.7	384.2	



1 TEMP CROSSING DETAILS

SCALE: N.T.S.



2 TEMP COFFER DAM DETAIL

SCALE: N.T.S.

- NOTES:
- COFFER DAM SHALL BE OF NON-ERODIBLE MATERIAL
 - COFFER DAM HEIGHT SHALL MATCH THE HEIGHT OF THE ADJACENT OVERBANK ELEVATION
 - THE LENGTH OF THE COFFERED AREA SHALL BE DETERMINED BY THE CONTRACTOR. IT IS ANTICIPATED THAT MULTIPLE STAGES OF COFFER DAM PLACEMENT WILL BE REQUIRED TO CONSTRUCT THE PROPOSED IMPROVEMENTS.
 - BEFORE REMOVAL OF ANY PORTION OF THE COFFER DAM, THE ENTIRE COFFERED AREA MUST BE FULLY STABILIZED, AS-BUILT CONDITIONS SURVEYED, AND APPROVED BY THE ENGINEER.
 - COFFER DAM SHALL NOT OBSTRUCT MORE THAT 1-3 OF THE AVAILABLE CHANNEL WIDTH
 - WHERE IMPROVEMENTS ARE ON BOTH BANKS, ONLY ONE BANK SHALL BE COFFERED AT A TIME UNLESS 2/3 OF THE AVAILABLE CHANNEL WIDTH CAN BE MAINTAINED WITH BOTH SIDES COFFERED AT THE SAME TIME.
 - DEWATERING SYSTEMS SHALL USE FILTER AN/OR FLOCCULANTS AS NECESSARY SO THAT THE TURBIDITY OF DISCHARGED WATER IS EQUAL TO OR CLEANER THAN THE WATER NATURALLY ENTERING THE SITE. PLACEMENT SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
 - WORK IN THE WATERWAY SHALL BE TIMED TO TAKE PLACE AT LOW OR NO-FLOW CONDITIONS. ENGINEER RESERVES THE RIGHT TO STOP WORK IF CONDITIONS ARE NOT CONSIDERED OPTIMAL FOR WORK.

OWNER:

DU PAGE COUNTY

STREET ADDRESS:
3 S 580 NAPERVILLE ROAD
WHEATON, IL 60189-8761

MAILING ADDRESS:
P.O. BOX 5000
WHEATON, IL 60189-5000

CONTACT NUMBERS:
PH# 630-933-7200
FAX# 630-933-7204

PH#:
FAX#:

SUBCONSULTANT:
PH#:
FAX#:

CONSULTANT:
PH#:
FAX#:

MARK:

DATE:

DESCRIPTION:

PROJECT NO:

Z-023-101

DRAWN BY:

CHECKED BY:

DATE:

August 28, 2024

SCALE:

SHEET TITLE:

EROSION CONTROL AND DEMO PLAN

SHEET NO:

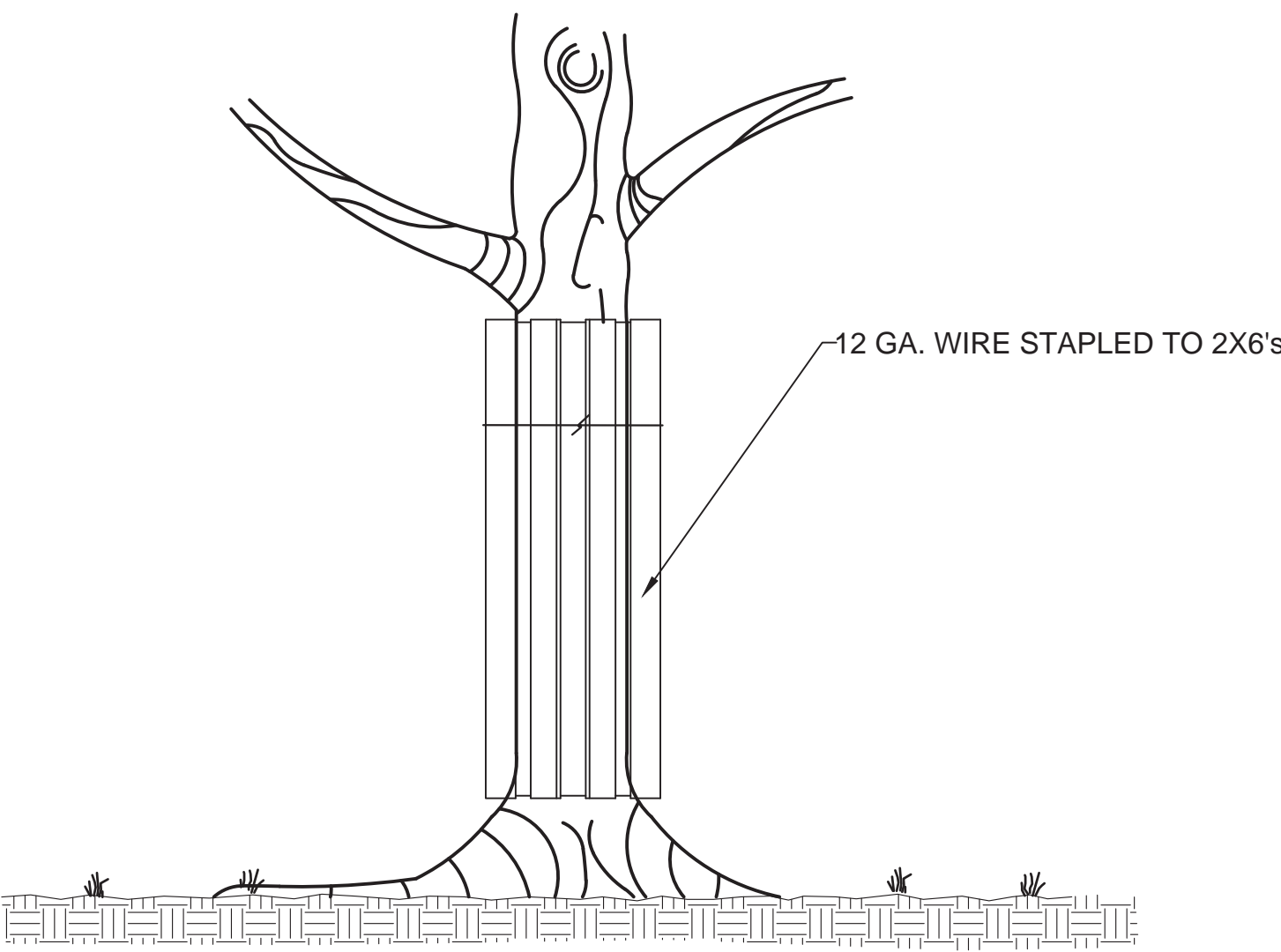
EC 1.06

SHEET

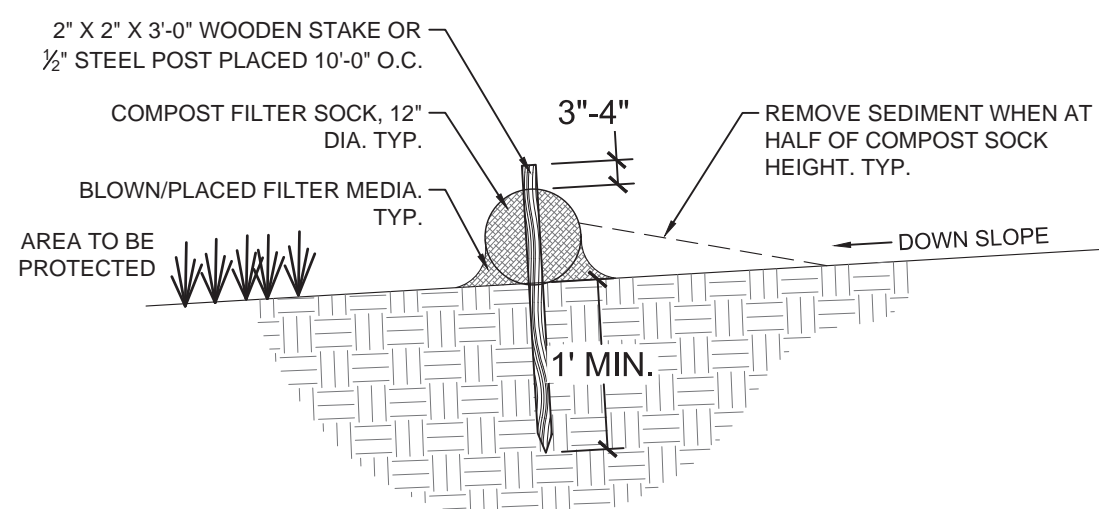
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OF 48

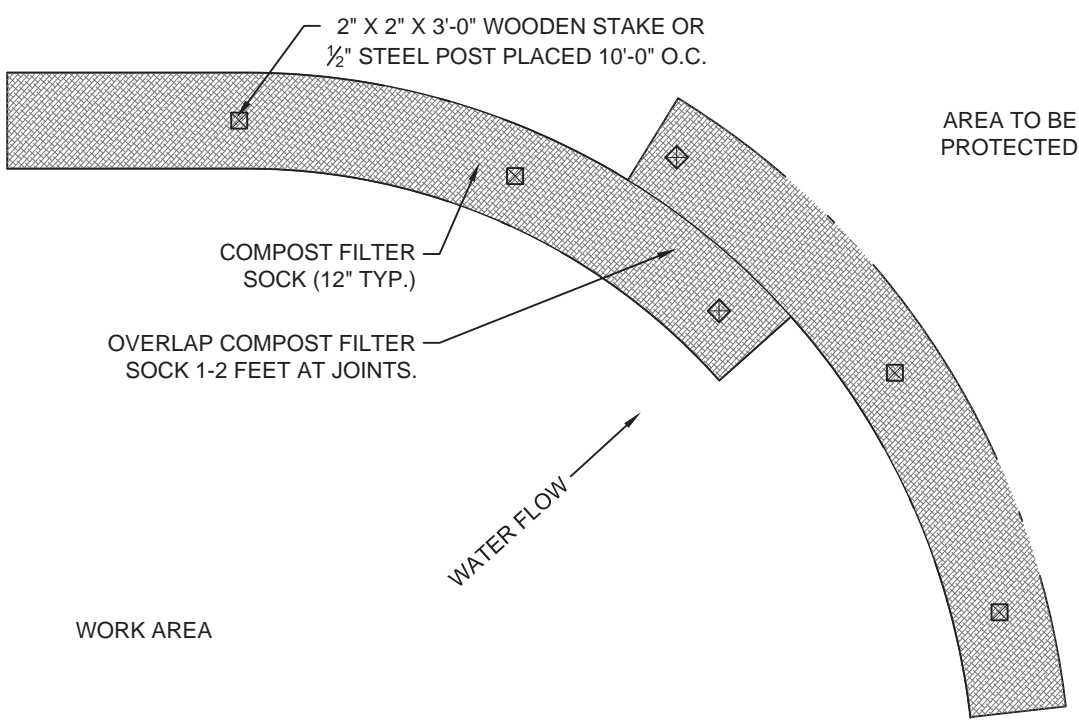
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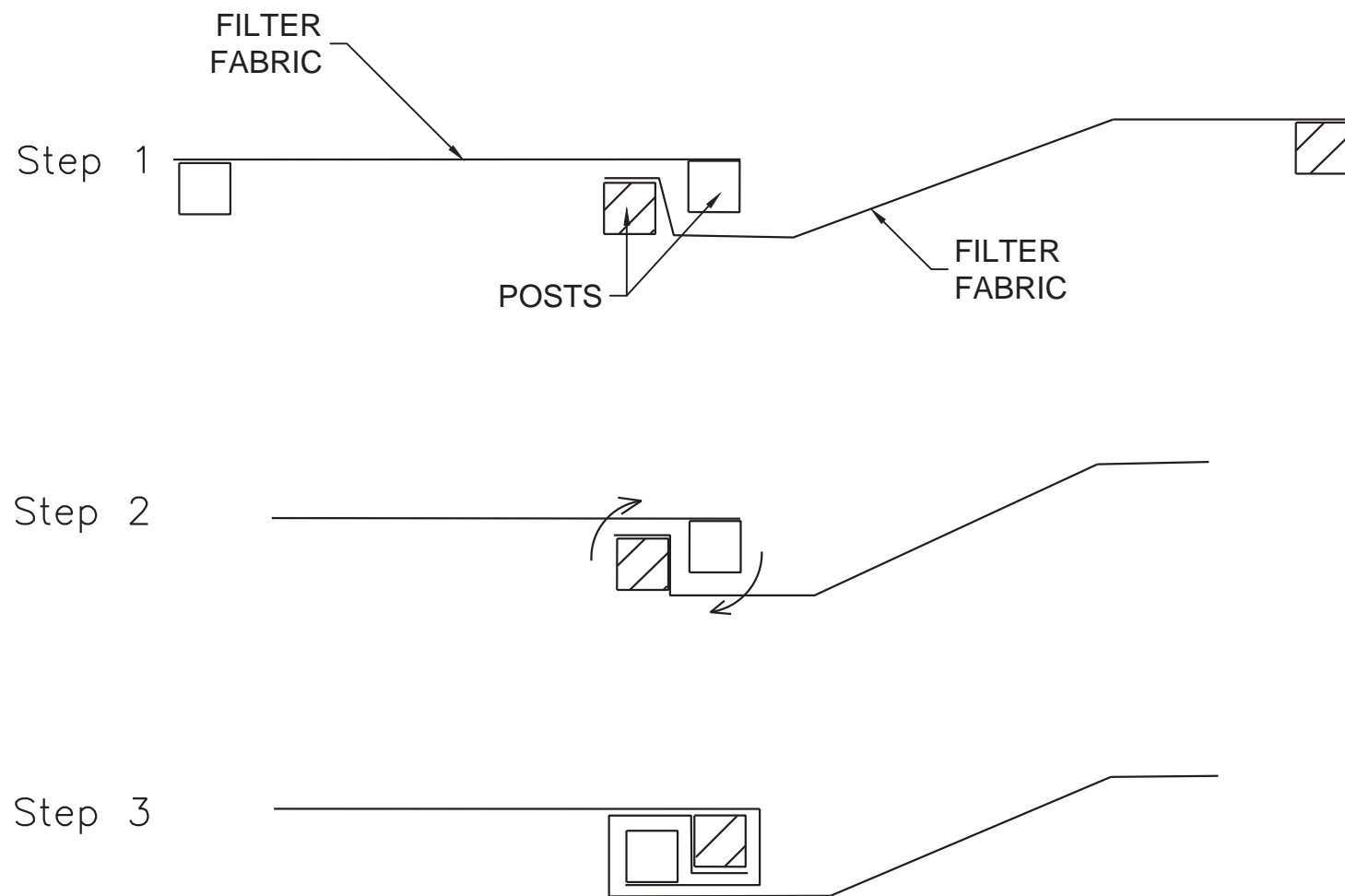
2 TREE TRUNK PROTECTION
EC 1.07 SCALE: 1/2" = 1'



- NOTES:
1. FILTER MEDIA SHALL BE CERTIFIED WEED-FREE COMPOSTED MATERIAL ACCORDING TO SPECIFICATIONS. IF CERTIFICATION CANNOT BE PROVIDED CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE AND LEGALLY DISPOSE OF ALL FILTER MEDIA. CERTIFIED WEED-FREE COMPOST SHALL BE RAKED SMOOTH AND OVERSEEDED WITH SPECIFIED SEED MIX UPON FINAL SITE STABILIZATION AS DETERMINED BY PROJECT REPRESENTATIVE.
 2. COMPOST SOCK SHALL BE RESPONSIBLE FOR REMOVAL OF ALL STAKES. NO HAZARDOUS AND JAGGED EDGES SHALL BE ACCEPTED AND SHALL BE EITHER COMPLETELY REMOVED OR BURIED AS TO ELIMINATE ALL HAZARDOUS CONDITIONS.



3 PERIMETER EROSION CONTROL, SPECIAL
EC 1.07 SCALE: 3/4" = 1'



ATTACHING TWO SILT
FENCES

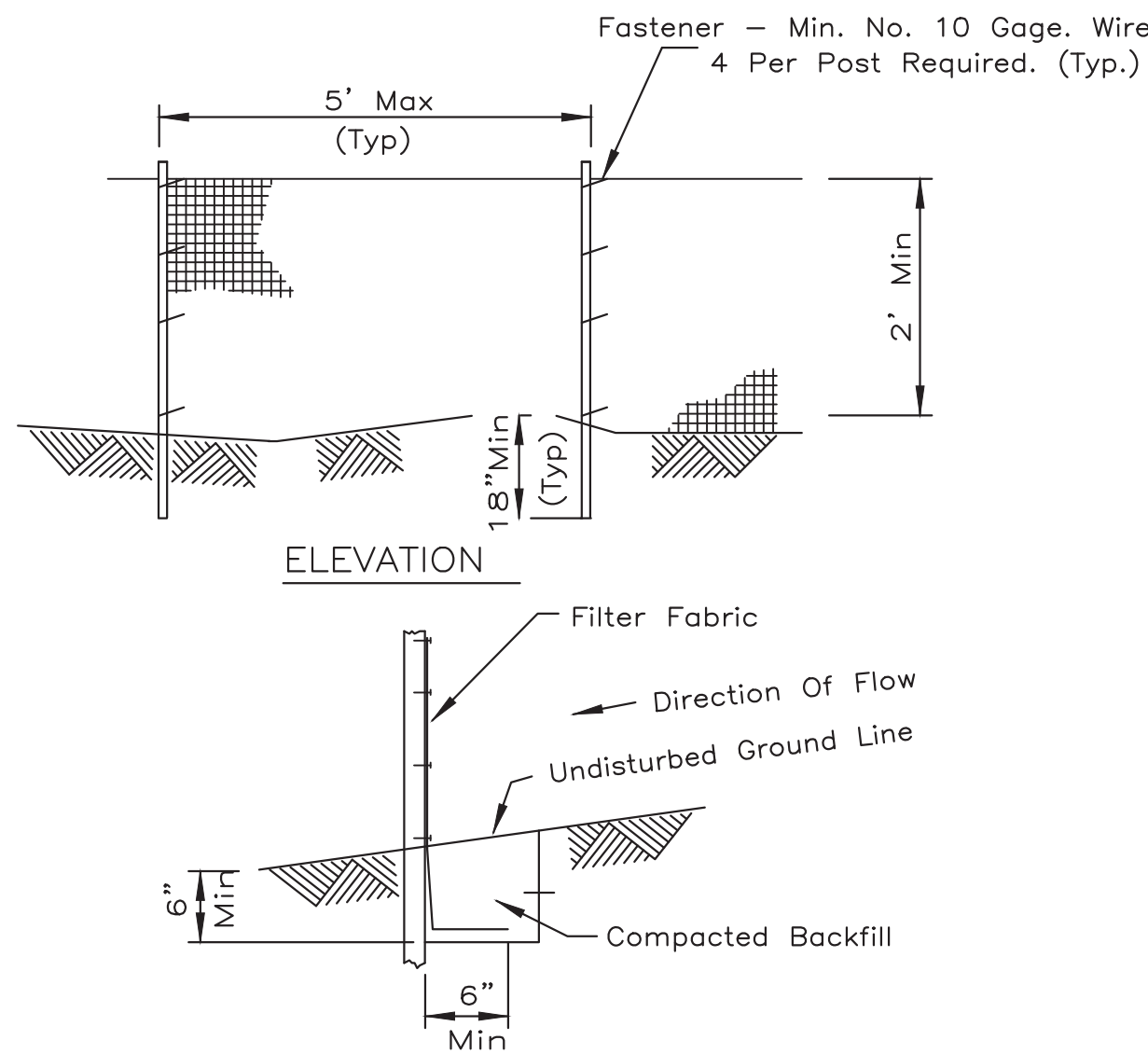
- NOTES:
1. Place the end post of the second fence inside the end post of the first fence.
 2. Rotate both posts at least 180 degrees in a clockwise direction to create a tight seal with the fabric material.
 3. Drive both posts a minimum of 18 inches into the ground and bury the flap.

REFERENCE	
Project	_____
Designed	_____ Date _____
Checked	_____ Date _____
Approved	_____ Date _____



STANDARD DWG. NO.
IL-620(W)
SHEET 2 OF 2
DATE 1-29-99

4 PERIMETER EROSION CONTROL BARRIER
EC 1.07 SCALE: NTS



- NOTES:
1. Temporary sediment fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
 2. Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1 or 2, Class with equivalent opening size of at least 30 for nonwoven and 50 for woven.
 3. Fence posts shall be either wood post with a minimum cross-sectional area of 3.0 sq. in. or standard steel post.

REFERENCE	
Project	_____
Designed	_____ Date _____
Checked	_____ Date _____
Approved	_____ Date _____



STANDARD DWG. NO.
IL-620W
SHEET 1 OF 2
DATE 3-3-95

5 PERIMETER EROSION CONTROL BARRIER
EC 1.07 SCALE: NTS

OWNER: STREET ADDRESS:
3 S 580 NAPERVILLE ROAD
WHEATON, IL 60189-8761

MAILING ADDRESS:
P.O. BOX 5000
WHEATON, IL 60189-5000

CONTACT NUMBERS:
PH# 630-933-7200
FAX# 630-933-7204

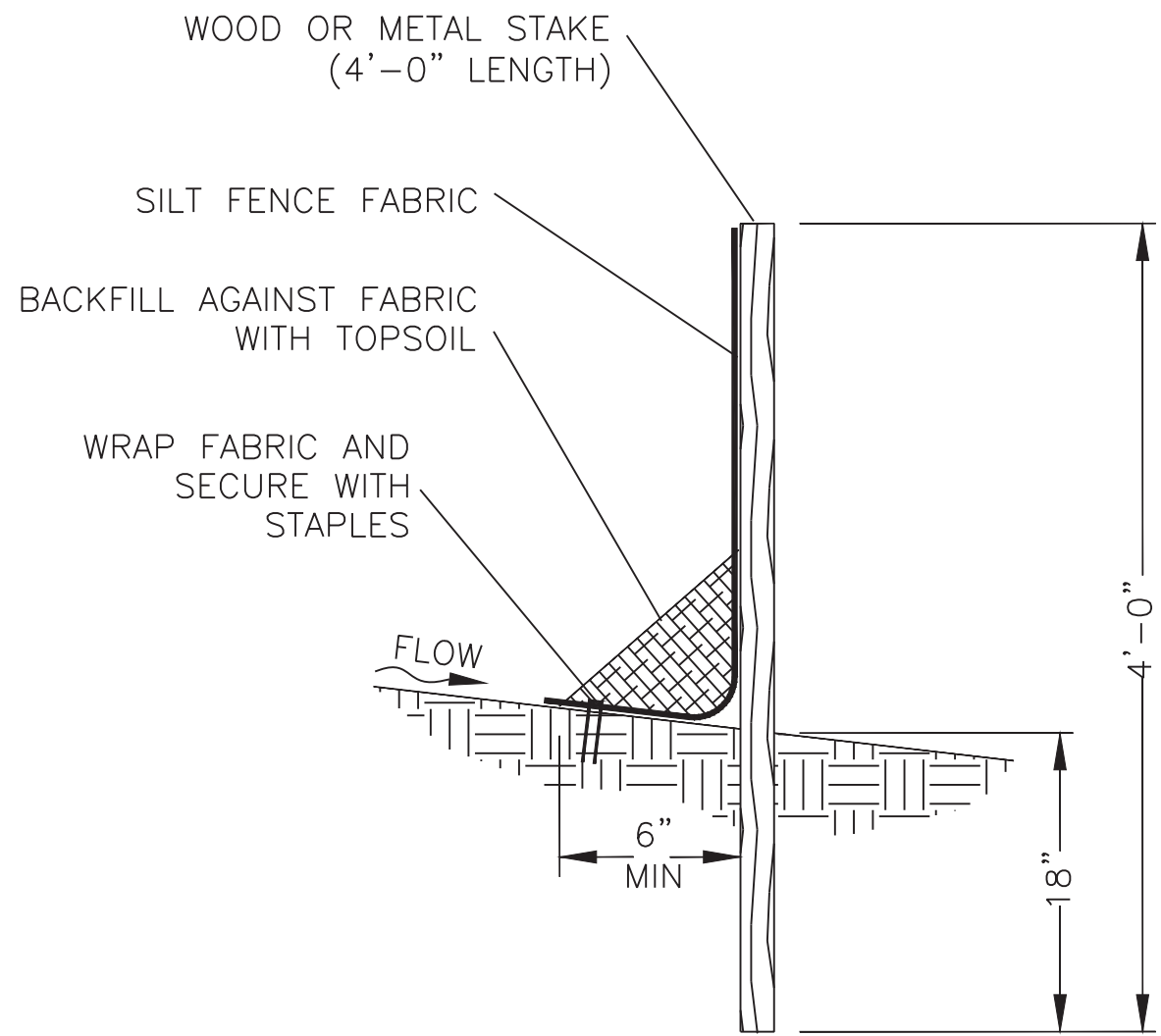
BLACKWELL FOREST PRESERVE
SPRING BROOK PHASE III

MARK:	DATE:	DESCRIPTION:

PROJECT NO: Z-023-101
DRAWN BY:
CHECKED BY:
DATE: August 28, 2024
SCALE:

SHEET TITLE:
EROSION CONTROL
DETAILS

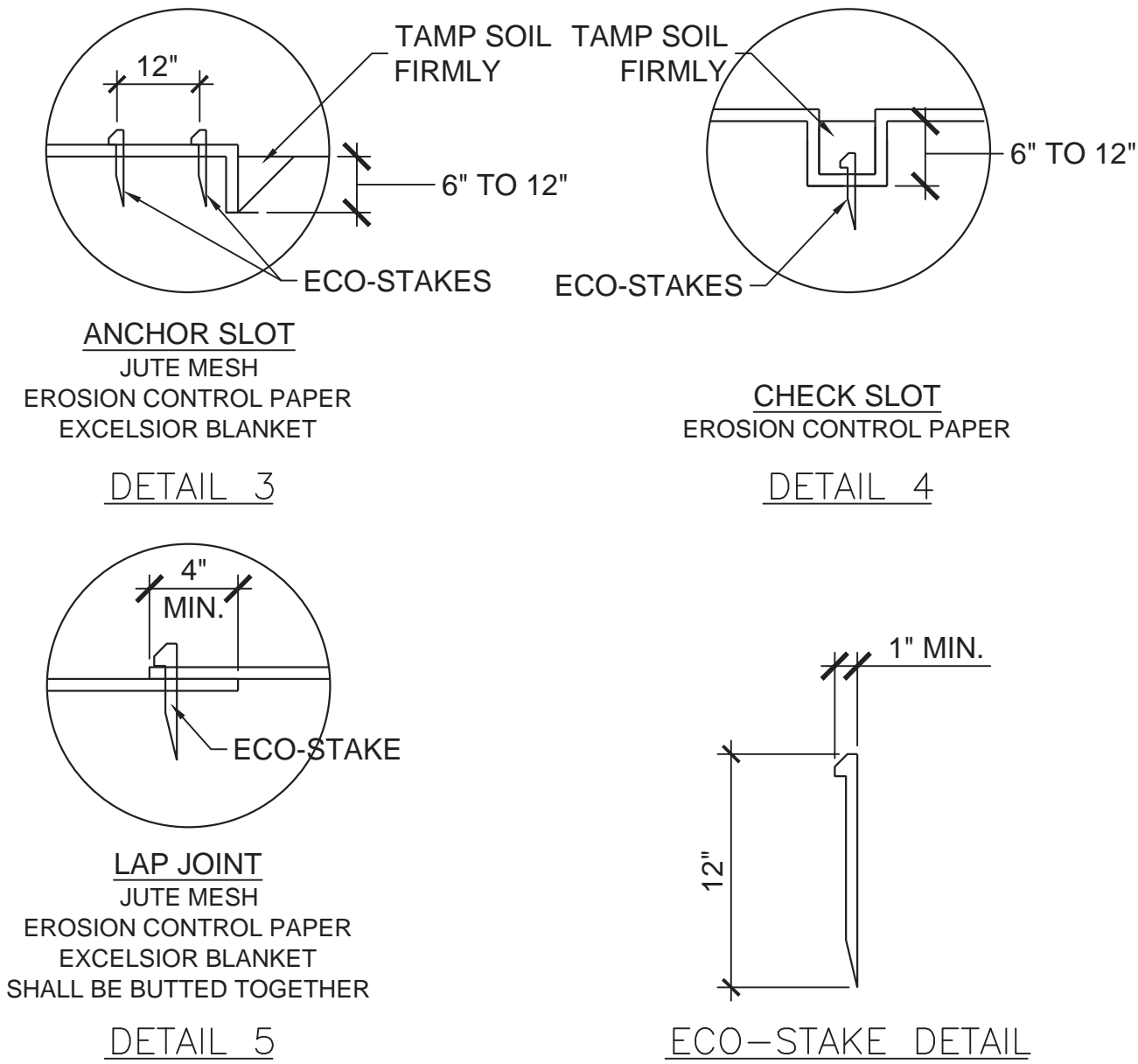
SHEET NO:
EC 1.07
SHEET 21 OF 48



NOTES:

- SPECIAL SECTION DETAIL APPLIES TO THOSE AREAS WHERE TRENCHING WOULD HAVE A DETRIMENTAL IMPACT ON TREES IN THE VICINITY. USE AS DIRECTED BY ENGINEER.
- CONTRACTOR SHALL INSPECT AND REPAIR SILT FENCE AT REGULAR INTERVALS. SILT FENCE SHALL NOT BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.
- FENCE POST SPACING CAN BE INCREASED TO A MAXIMUM OF 8 FEET WHEN WIRE OR OTHER FORM OF APPROVED BACKING IS USED.

1 SILT FENCE, SPECIAL
EC 1.08 SCALE: NTS

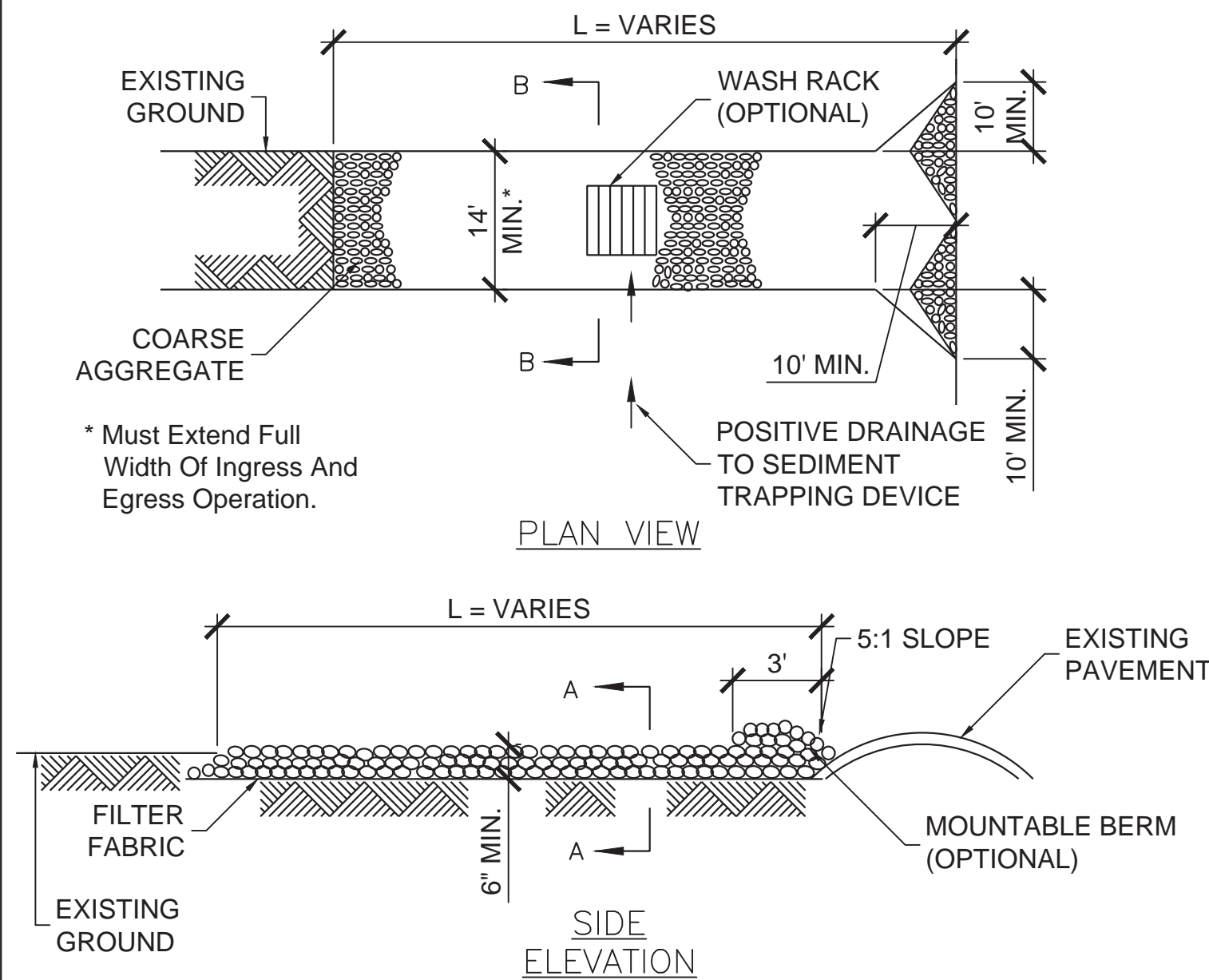


NOTES:

- On erosion control paper, check slots, in ditch channel shall be spaced so that one occurs within each 50' on slopes of more than 4% and less than 6%. On slopes of 6% or more, they shall be spaced so that one occurs within each 25'.
- Stakes are to be placed alternately, in columns approximately 2' apart and in rows approximately 3' apart. Approximately 175 stakes are required per 4' x 225' roll of material and 125 stakes are required per 4' x 150' roll of material.
- Erosion control material shall be placed loosely over ground surface. Do not stretch.
- All terminal ends and transverse laps shall be staked at approximately 12" intervals.

REFERENCE	Project	Date		STANDARD DWG. NO.
	Designed	Date		IL-530
	Checked	Date		SHEET 2 OF 2
	Approved	Date		DATE 3-1-95

4 EROSION CONTROL BLANKET
EC 1.08 SCALE: NTS

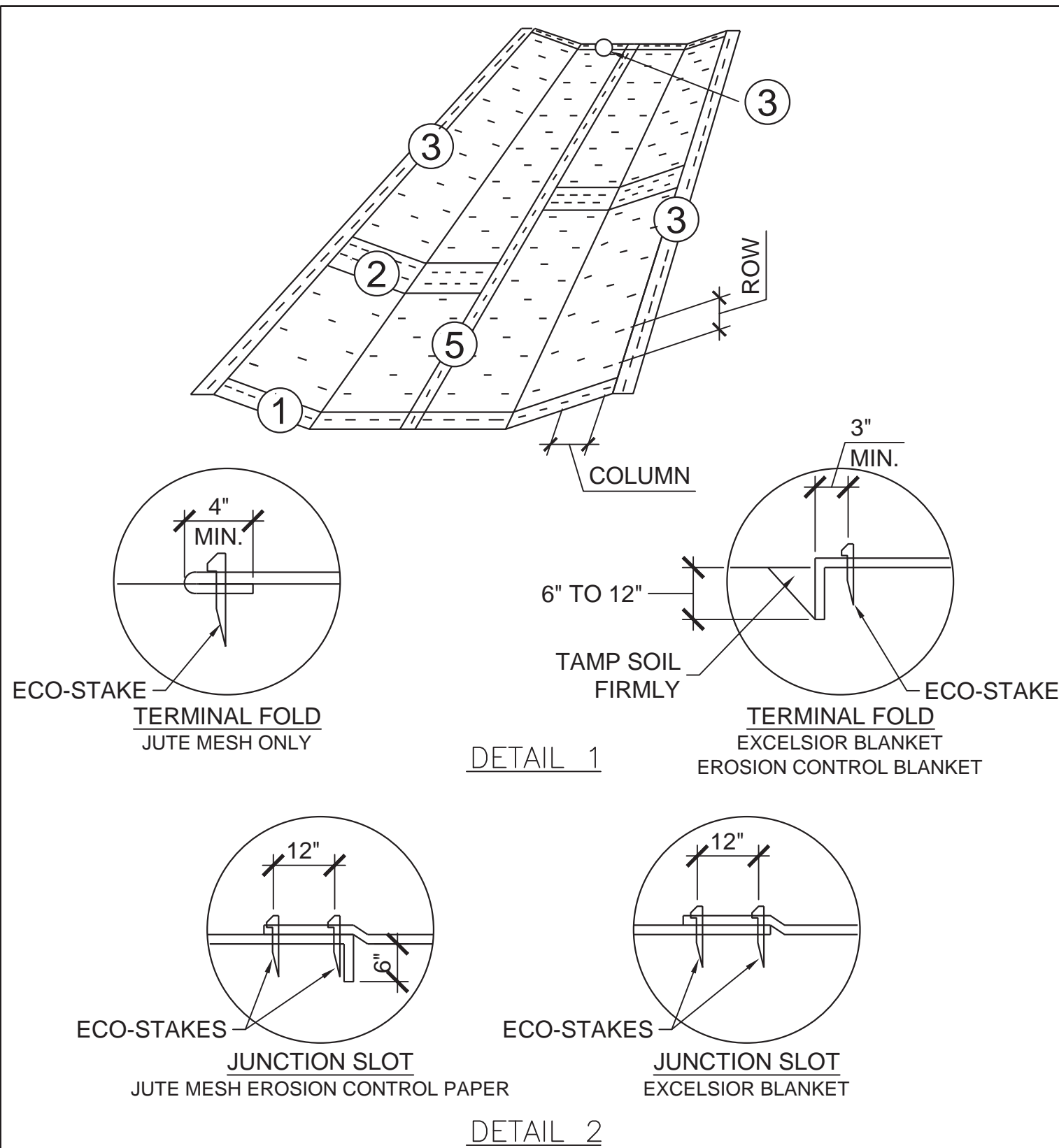


NOTES:

- Filter fabric shall meet the requirements of material specification 592 GEOTEXTILE, Table I or 2, Class I, II or IV and shall be placed over the cleared area prior to the placing of rock.
- Rock or reclaimed concrete shall meet one of the following IDOT coarse aggregate gradation, CA-1, CA-2, CA-3 or CA-4 and be placed according to construction specification 25 ROCKFILL using placement Method 1 and Class III compaction.
- Any drainage facilities required because of washing shall be constructed according to manufacturers specifications.
- If wash racks are used, they shall be installed according to the manufacturer's specifications.

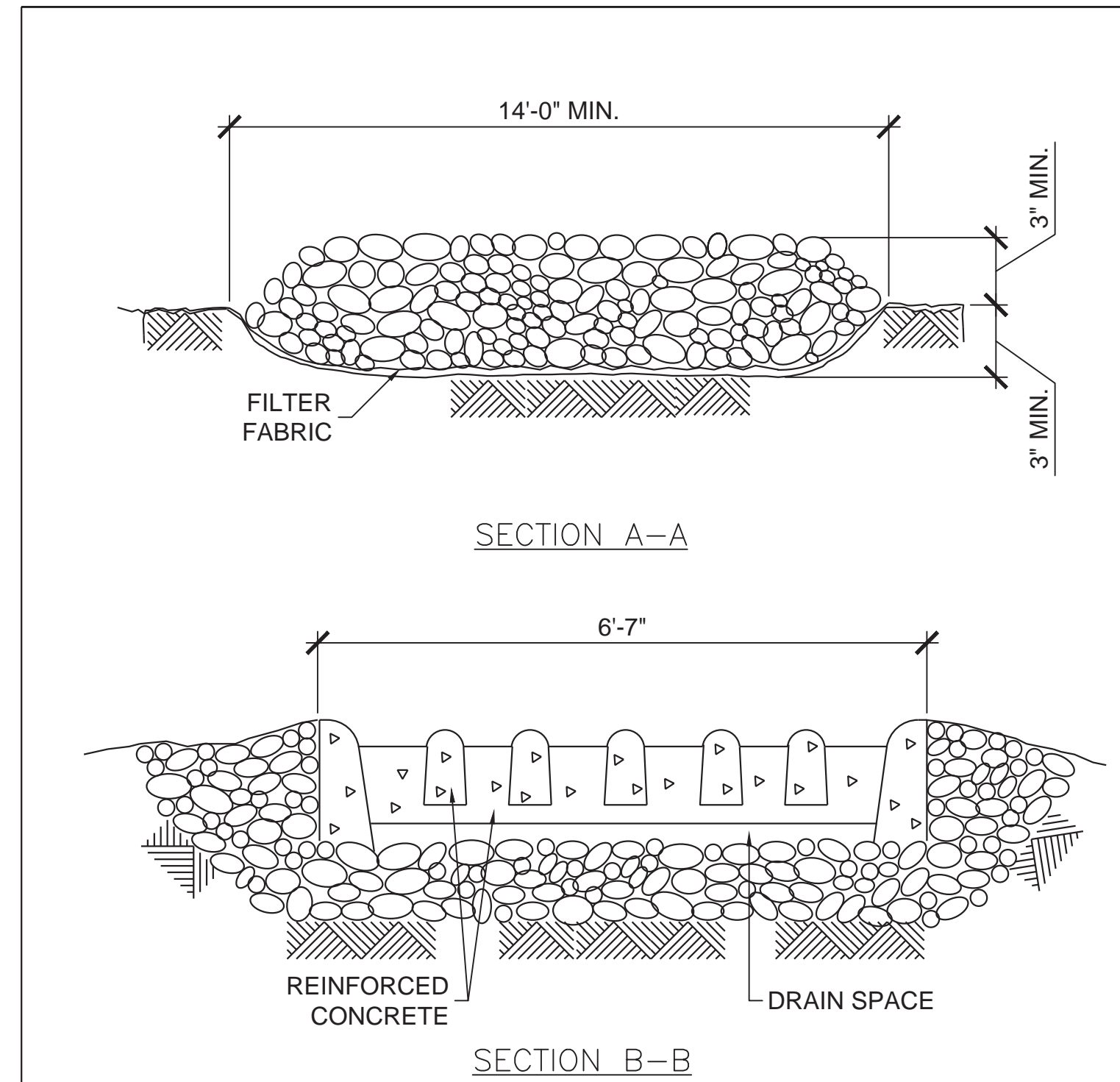
REFERENCE	Project	Date		STANDARD DWG. NO.
	Designed	Date		IL-630
	Checked	Date		SHEET 1 OF 2
	Approved	Date		DATE 8-18-94

2 STABILIZED CONSTRUCTION ACCESS
EC 1.08 SCALE: NTS



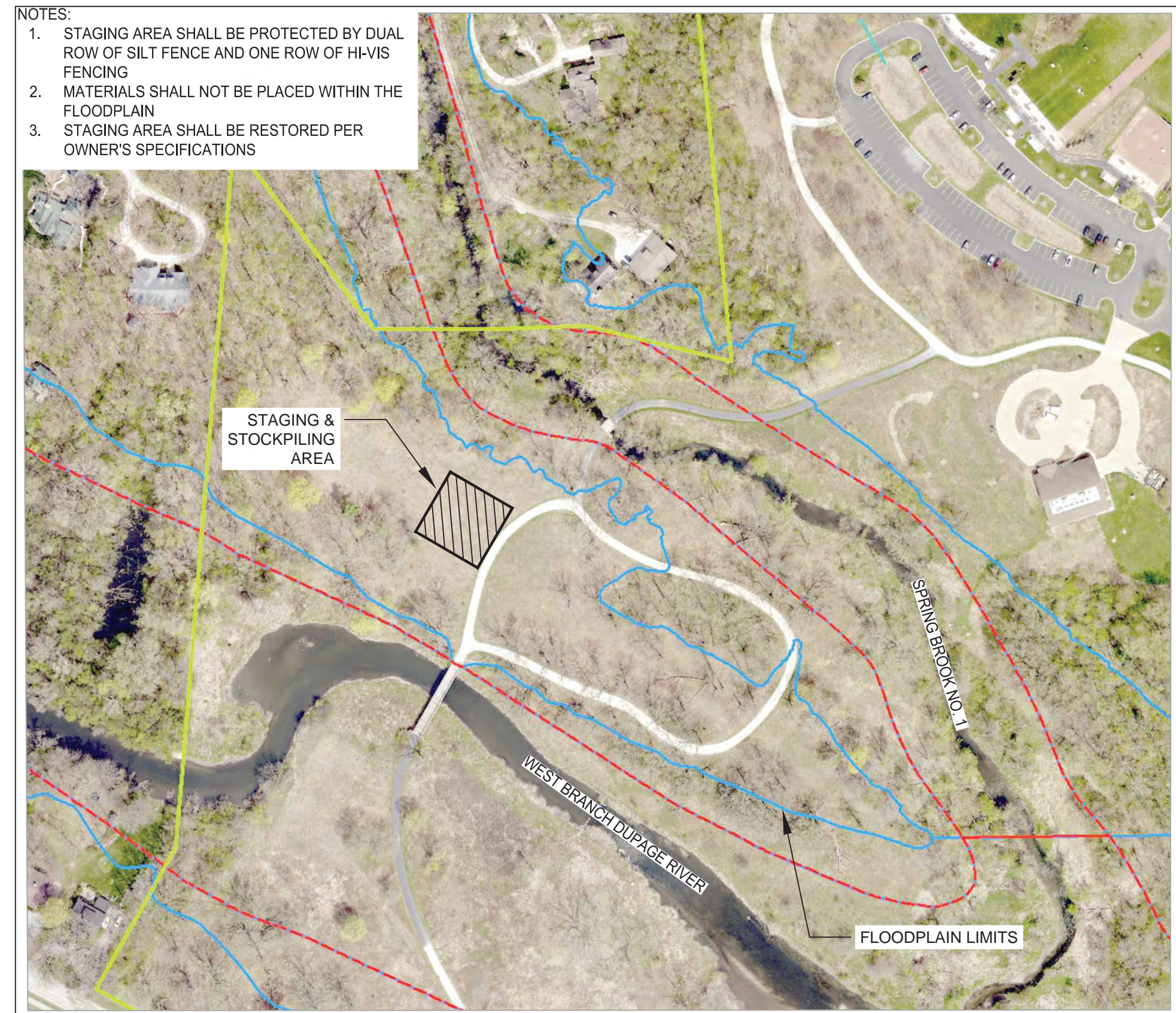
REFERENCE	Project	Date		STANDARD DWG. NO.
	Designed	Date		IL-530
	Checked	Date		SHEET 1 OF 2
	Approved	Date		DATE 5-24-94

5 EROSION CONTROL BLANKET
EC 1.08 SCALE: NTS



REFERENCE	Project	Date		STANDARD DWG. NO.
	Designed	Date		IL-630
	Checked	Date		SHEET 2 OF 2
	Approved	Date		DATE 8-18-94

3 STABILIZED CONSTRUCTION ACCESS
EC 1.08 SCALE: NTS



6 STAGING AND STOCKPILING AREA
EC 1.08 SCALE: N.T.S.

OWNER: STREET ADDRESS:
3 S 580 NAPERVILLE ROAD
WHEATON, IL 60189-8761
MAILING ADDRESS:
P.O. BOX 5000
WHEATON, IL 60189-5000
CONTACT NUMBERS:
PH# 630-933-7200
FAX# 630-933-7204

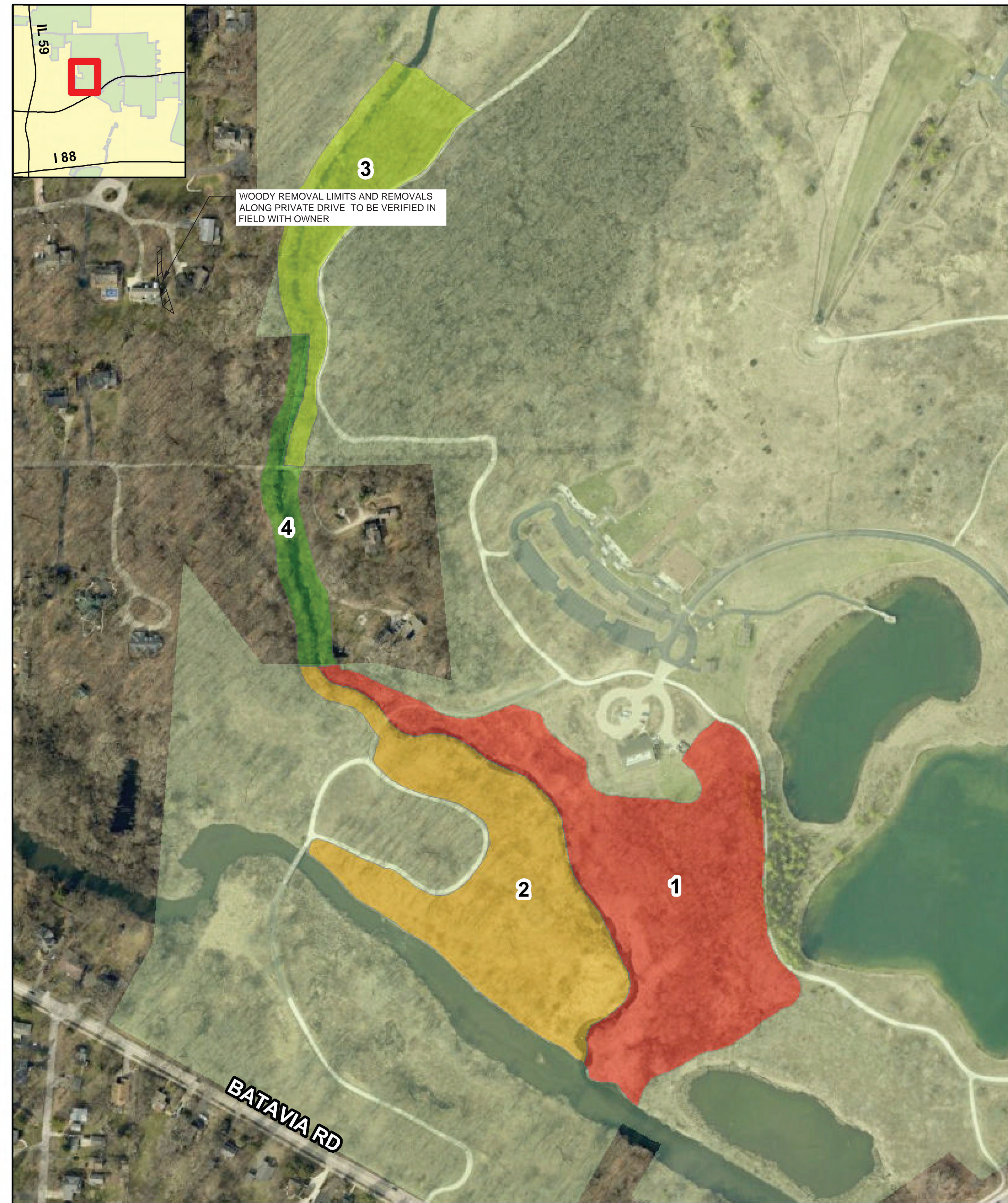
BLACKWELL FOREST PRESERVE
SPRING BROOK PHASE III

MARK:	DATE:	DESCRIPTION:

PROJECT NO: Z-023-101
DRAWN BY:
CHECKED BY:
DATE: August 28, 2024
SCALE:

SHEET TITLE:
EROSION CONTROL
DETAILS

SHEET NO:
EC 1.08
SHEET 22 OF 48



AREA 1			
Scientific Name	Common Name	Remove	Prescription
<i>Acer negundo</i>	Boxelder	no	
<i>Acer saccharinum</i>	Silver maple	no	
<i>Carya</i> spp.	Hickories	no	
<i>Crataegus</i> spp.	Hawthorns	no	
<i>Juglans nigra</i>	Black walnut	no	
<i>Pinus strobus</i>	White pine	no	
<i>Plantanus occidentalis</i>	Sycamore	no	
<i>Populus deltoides</i>	Eastern cottonwood	no	
<i>Prunus serotina</i>	Wild black cherry	no	
<i>Quercus</i> spp.	Oaks	no	
<i>Ribes</i> spp.	Gooseberries and currants	no	
<i>Sambucus canadensis</i>	Common elderberry	no	
<i>Ulmus americana</i>	American elm	no	
	Any remaining native species	no	
<i>Acer platanoides</i>	Amur maple	yes	all
<i>Morus alba</i>	White mulberry	yes	all
<i>Robinia pseudoacacia</i>	Black locust	yes	all
<i>Ulmus pumila</i>	Siberian elm	yes	all
	Any remaining non-native species	yes	all
	Dead snags	yes	all, except as marked by Forest Preserve staff
	Downed wood	yes	all, except as marked by Forest Preserve staff

Scientific Name	Common Name	Remove	Prescription
<i>Carya</i> spp.	Hickories	no	
<i>Cercis canadensis</i>	Redbud	no	
<i>Celtis occidentalis</i>	Hackberry	no	
<i>Cornus obliqua</i>	Silly dogwood	no	
<i>Crataegus</i> spp.	Hawthorns	no	
<i>Juglans nigra</i>	Black walnut	no	
<i>Plantanus occidentalis</i>	Sycamore	no	
<i>Populus deltoides</i>	Eastern cottonwood	no	
<i>Quercus</i> spp.	Oaks	no	
<i>Sambucus canadensis</i>	Common elderberry	no	
<i>Staphylea trifoliata</i>	Bladdernut	no	
<i>Tilia americana</i>	American linden	no	
<i>Ulmus americana</i>	American elm	no	
	Any remaining native species	no	
<i>Ulmus americana</i>	American elm	no	
<i>Acer negundo</i>	Boxelder	yes	all
<i>Acer platanoides</i>	Amur maple	yes	all
<i>Alnus glutinosa</i>	Black alder	yes	all
<i>Cornus drummondii</i>	Rough-leaved dogwood	yes	all
<i>Gleditsia tricanthos</i>	Honey locust	yes	all
<i>Morus alba</i>	White mulberry	yes	all
<i>Prunus serotina</i>	Wild black cherry	yes	all
<i>Robinia pseudoacacia</i>	Black locust	yes	all
<i>Ulmus pumila</i>	Siberian elm	yes	all
	Any remaining non-native species	yes	all
	Dead snags	yes	all, except as marked by Forest Preserve staff
	Downed wood	yes	all, except as marked by Forest Preserve staff

Scientific Name	Common Name	Remove	Prescription
<i>Carya spp.</i>	Hickories	no	
<i>Quercus spp.</i>	Oaks	no	
<i>Viburnum prunifolium</i>	Blackhaw	no	
	native species	no	
<i>Acer negundo</i>	Boxelder	yes	<6" dbh
<i>Morus alba</i>	White mulberry	yes	all
<i>Prunus serotina</i>	Wild black cherry	yes	<6" dbh
<i>Ulmus americana</i>	American elm	yes	<6" dbh
	Any remaining non-native species	yes	all
			all, except as managed by Forest Preserve staff
	Dead snags	yes	all, except as managed by Forest Preserve staff
	Downed wood	yes	all, except as managed by Forest Preserve staff

AREA 4		
Common Name	Remove	Prescription
Any trees and shrubs necessary for haul road construction	yes	all
Dead snags	yes	all, except as marked by Forest Preserve staff
Downed wood	yes	all, except as marked by Forest Preserve staff

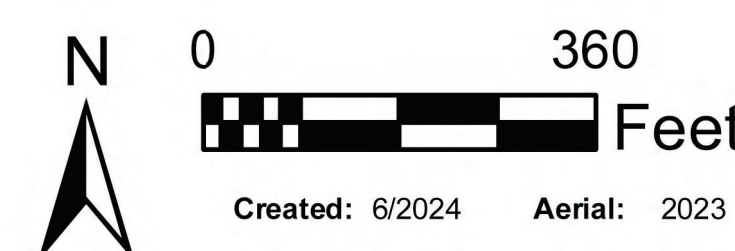
2 WOODY REMOVAL PRESCRIPTIONS

EC 1.09 SCALE: N.T.S.

*NOTE: THIS WORK IS NOT IN THIS CONTRACT

Blackwell FP
Spring Brook No. 1 - Phase 3

— Restoration Limits
 ■ Woody removal units
 ■ Forest Preserve Boundary



1 WOODY REMOVAL MAP
EC 1.09 SCALE: N.T.S.

OWNER:



STREET ADDRESS:

**3 S 580 NAPERVILLE ROAD
WHEATON, IL 60189-8761**

MAILING ADDRESS:

**P.O. BOX 5000
WHEATON, IL 60189-5000**

CONTACT NUMBERS:

**PH# 630-933-7200
FAX# 630-933-7204**

BLACKWELL FOREST PRESERVE
SPRING BROOK PHASE III

PH#:

FAX#

SUBCONSULTANT:

PH#:

FAX#

CONSULTANT:

[illegible]

PROJECT NO:	Z-023-101
DRAWN BY:	
CHECKED BY:	
DATE:	August 28, 2011
SCALE:	

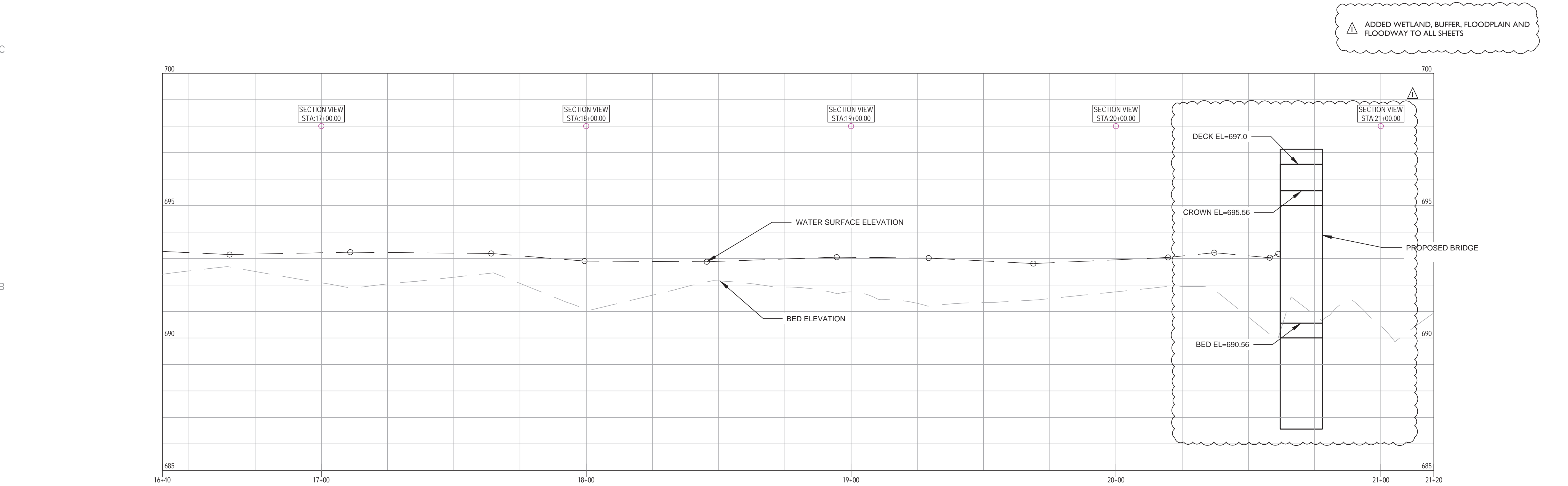
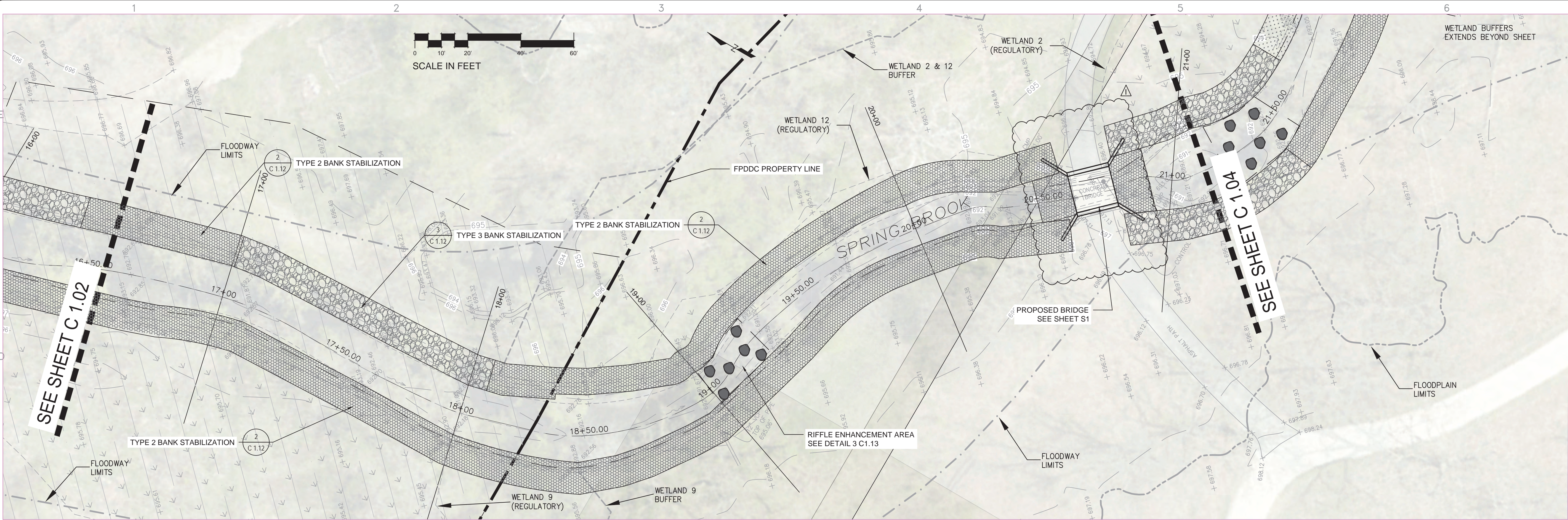
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WOODY REMOVAL
DETAILS

SHEET NO: EC 1.09

SHEET 23 OF 48

[illegible]



OWNER: STREET ADDRESS:
3 S 580 NAPERVILLE ROAD
WHEATON, IL 60189-8761

MAILING ADDRESS:
P.O. BOX 5000
WHEATON, IL 60189-5000

CONTACT NUMBERS:
PH# 630-933-7200
FAX# 630-933-7204

BLACKWELL FOREST PRESERVE SPRING BROOK PHASE III

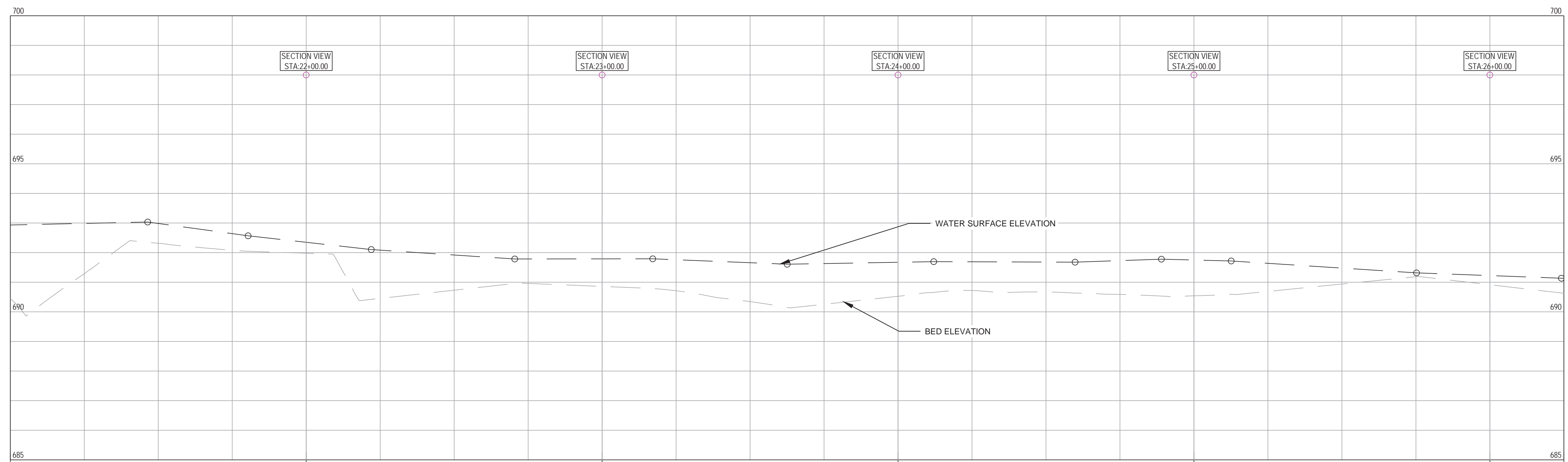
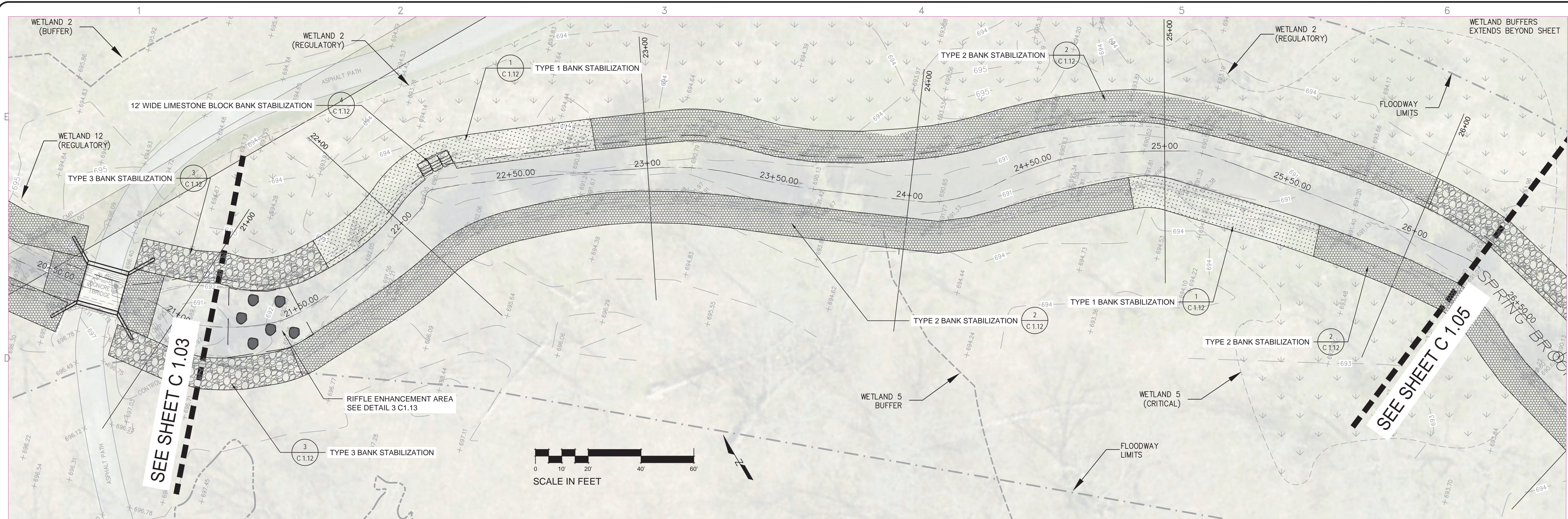
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PROJECT NO: Z-023-101
DRAWN BY:
CHECKED BY:
DATE: August 28, 2024
SCALE:

SHEET TITLE:
PROPOSED
CONDITIONS PLAN AND
PROFILE

SHEET NO:
C 1.03
SHEET 27 OF 48

CAD DWG FILE: \\p:\p\Planning\DRAWINGS\500\500-023-101\Drawing\CD\Final.dwg Spring brook Proposed.dwg



OWNER:

STREET ADDRESS:

3 S 580 NAPERVILLE ROAD
WHEATON, IL 60189-8761

MAILING ADDRESS:

P.O. BOX 5000
WHEATON, IL 60189-5000

CONTACT NUMBERS:

PH# 630-933-7200
FAX# 630-933-7204

BLACKWELL FOREST PRESERVE

SPRING BROOK PHASE III

PH#:	
FAX#	

FAX#

SUBCONSULTANT:

PH#:

FAX#

CONSULTANT:

[illegible]

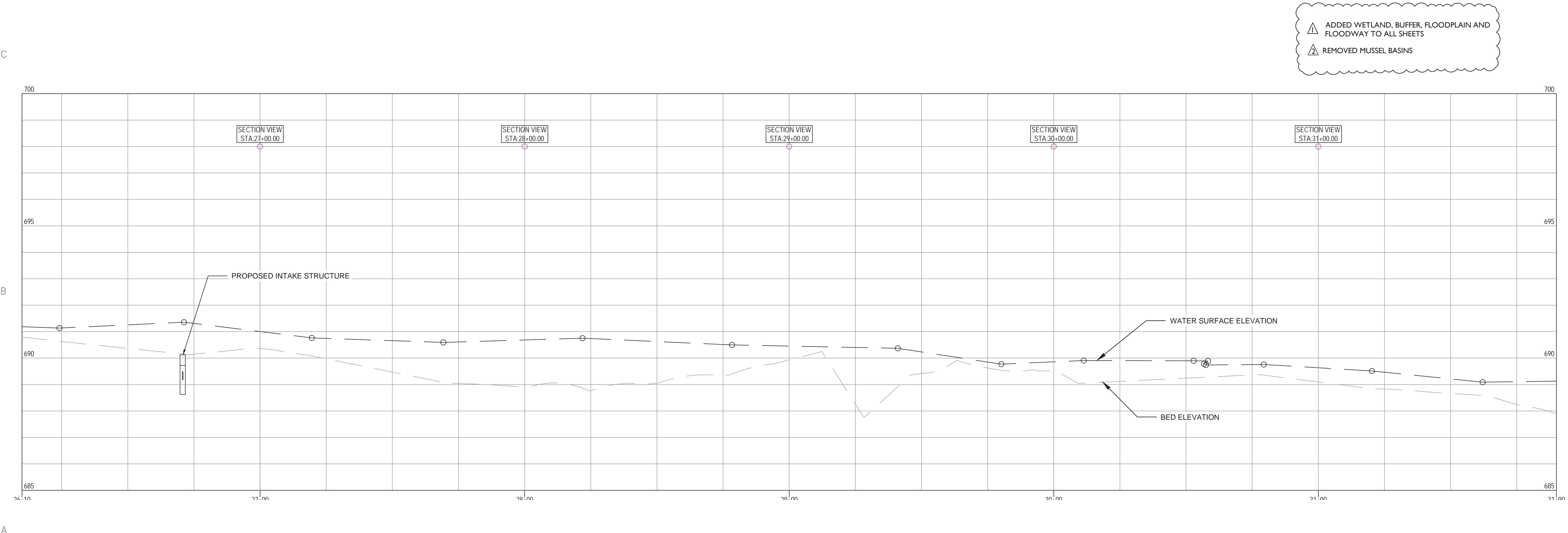
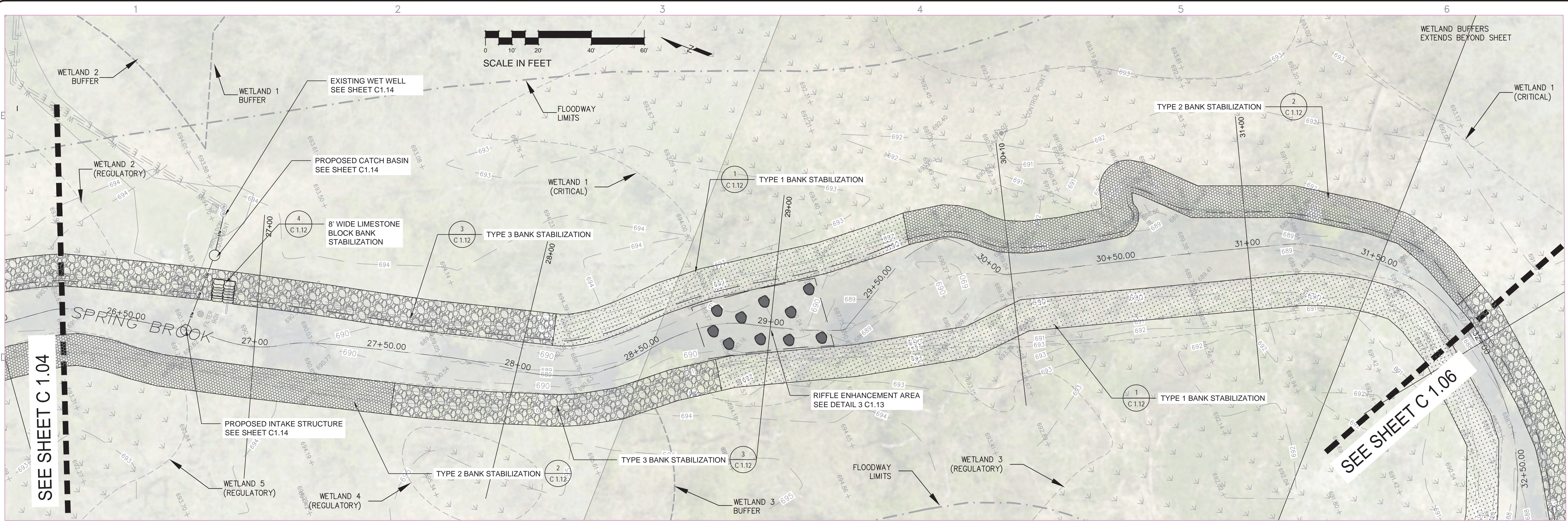
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DRAWN BY:	
CHECKED BY:	
DATE:	August 28, 2024
SCALE:	

SHEET TITLE:

PROPOSED
CONDITIONS PLAN AND
PROFILE

SHEET NO:		
C 1.04		
SHEET	28	OF 48

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OWNER: STREET ADDRESS:
3 S 580 NAPERVILLE ROAD
WHEATON, IL 60189-8761

MAILING ADDRESS:
P.O. BOX 5000
WHEATON, IL 60189-5000

CONTACT NUMBERS:
PH# 630-933-7200
FAX# 630-933-7204

BLACKWELL FOREST PRESERVE SPRING BROOK PHASE III

MARK:	DATE:	DESCRIPTION:

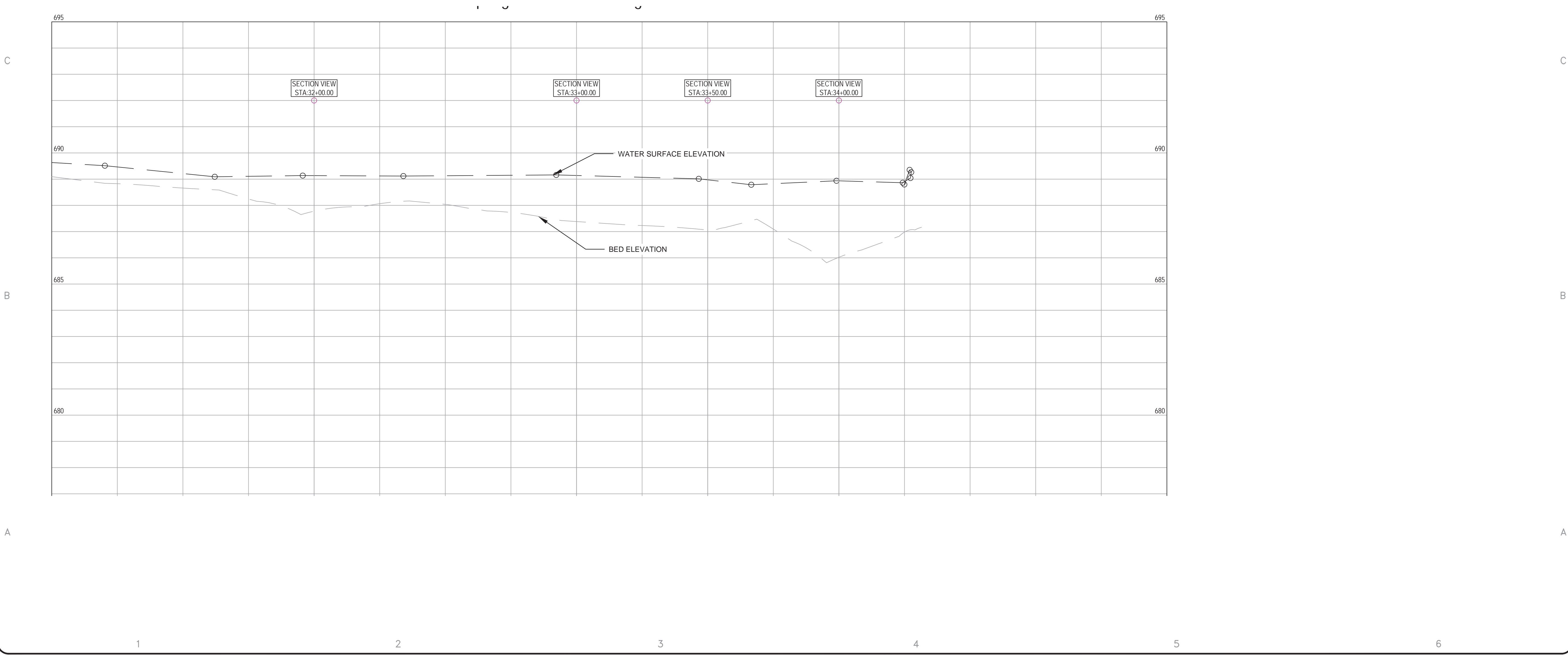
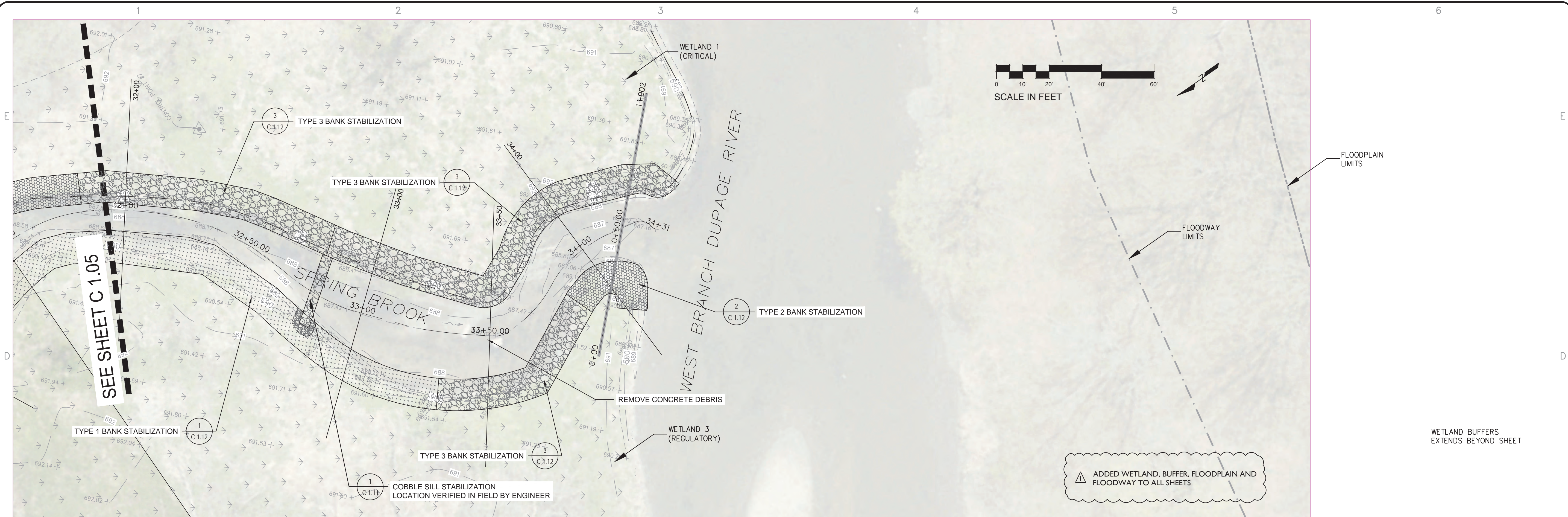
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DRAWN BY:
CHECKED BY:
DATE: August 28, 2024
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**PROPOSED
CONDITIONS PLAN AND
PROFILE**


SHEET NO:
C 1.05

SHEET 29 OF 48

CAD DWG FILE: \\pdp-Planning\DATA\B5056\PC02-023-101\Drawing\CD\Final.dwg Spring brook Proposed.dwg



OWNER:



STREET ADDRESS:

3 S 580 NAPERVILLE ROAD
WHEATON, IL 60189-8761

MAILING ADDRESS:

P.O. BOX 5000
WHEATON, IL 60189-5000

CONTACT NUMBERS:

PH# 630-933-7200
FAX# 630-933-7204

BLACKWELL FOREST PRESERVE

SPRING BROOK PHASE III

CONSULTANT:

PH#:

FAX#:

SUBCONSULTANT:

MARK:	DATE:	DESCRIPTION:

PROJECT NO:

Z-023-101

DRAWN BY:

CHECKED BY:

DATE:

August 28, 2024

SCALE:

SHEET TITLE:

PROPOSED
CONDITIONS PLAN AND
PROFILE

SHEET NO:

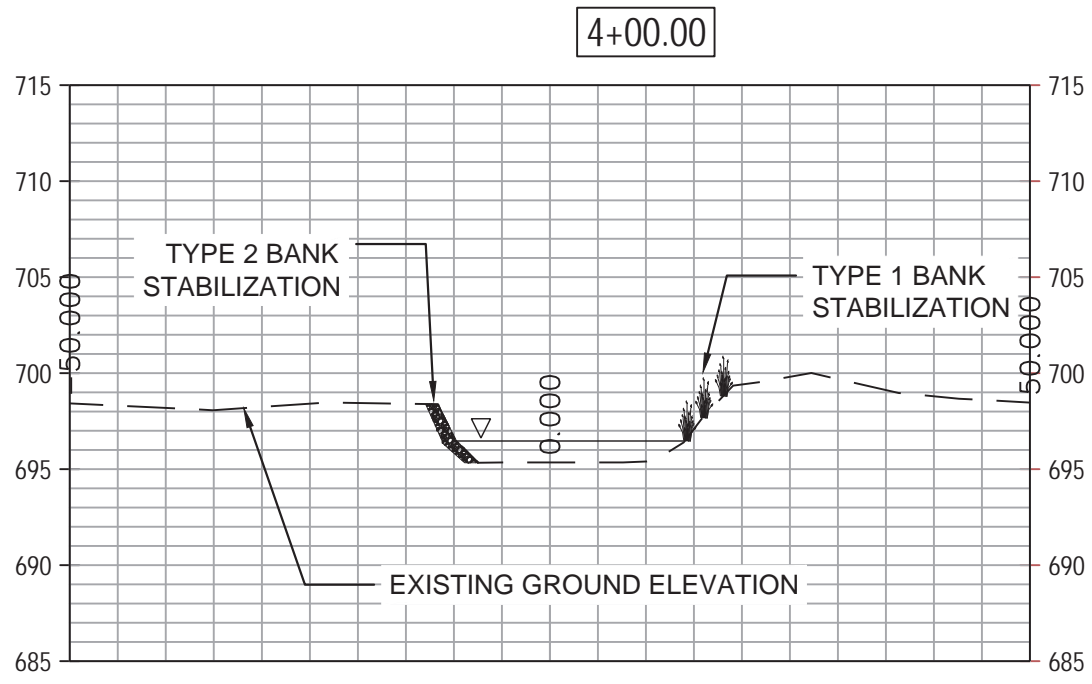
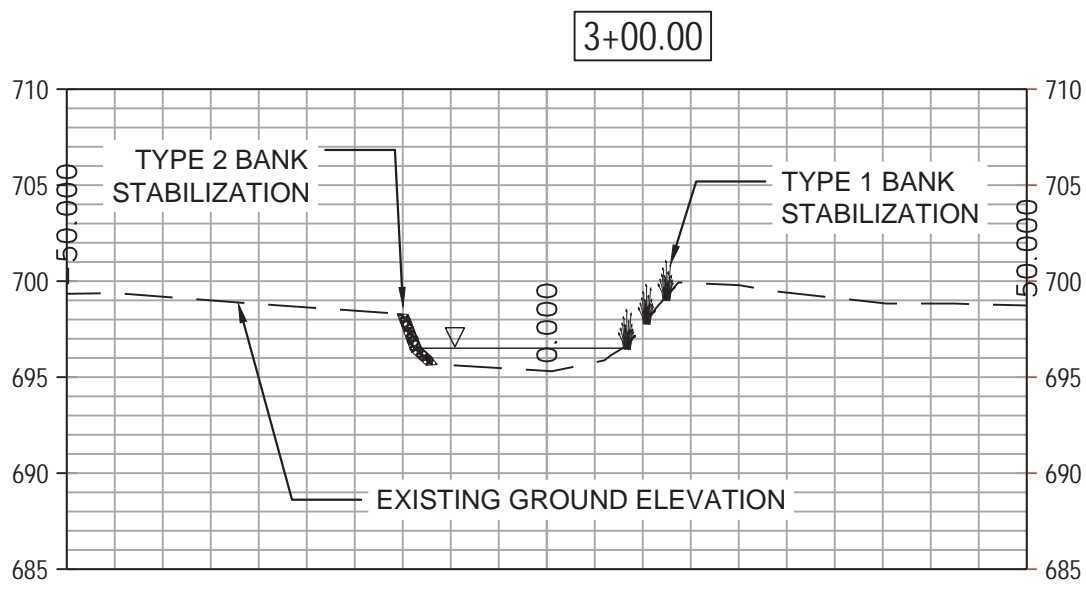
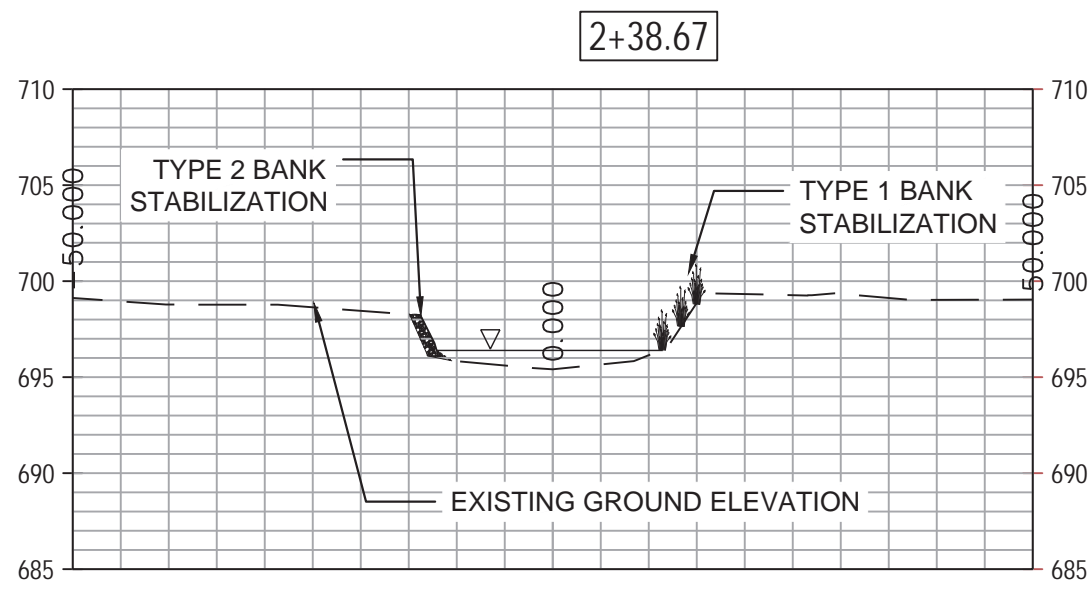
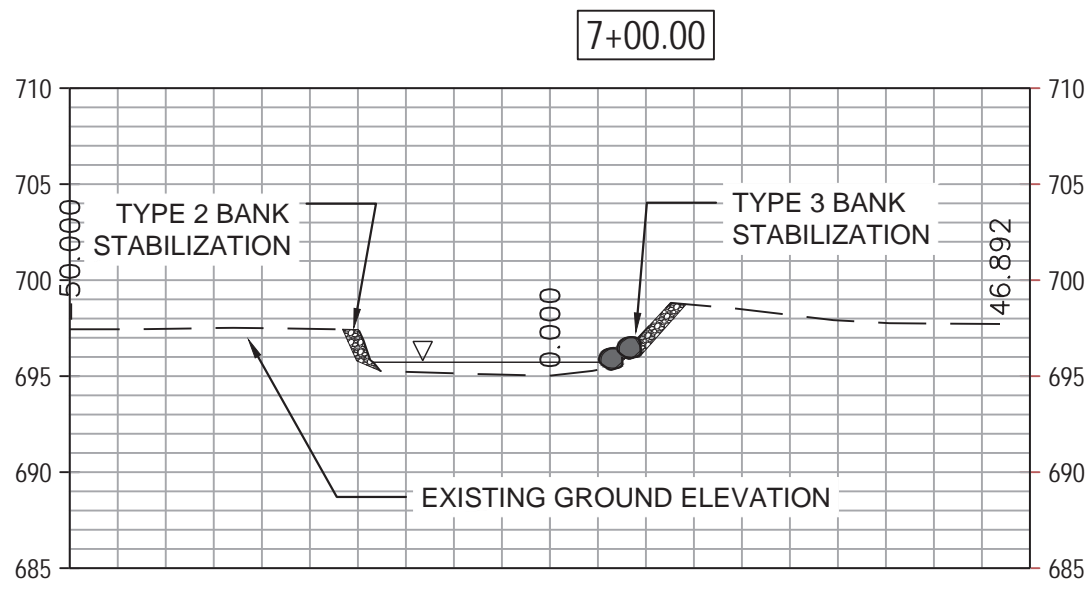
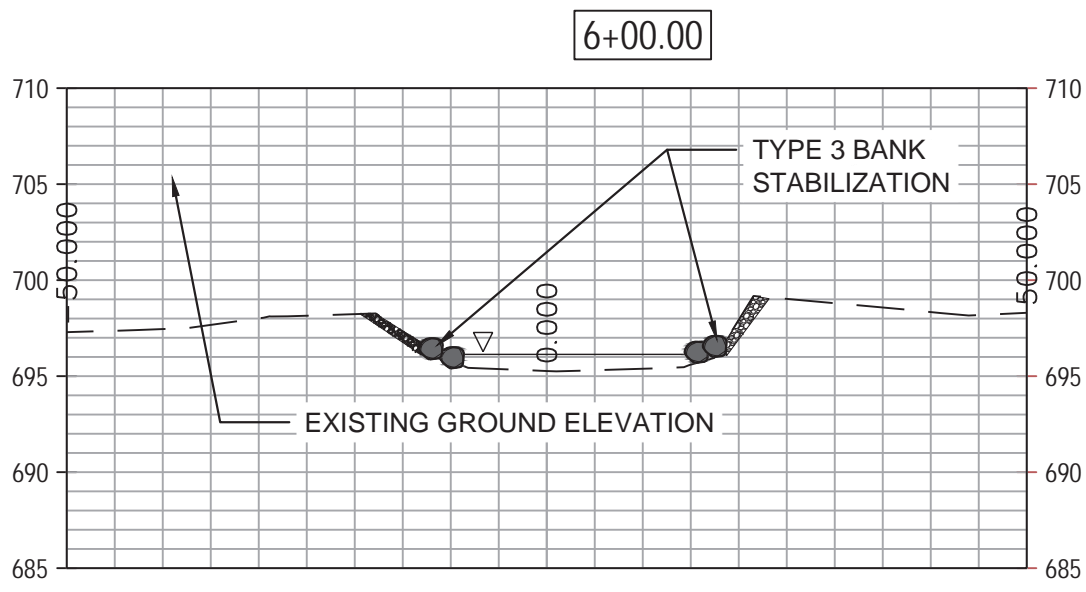
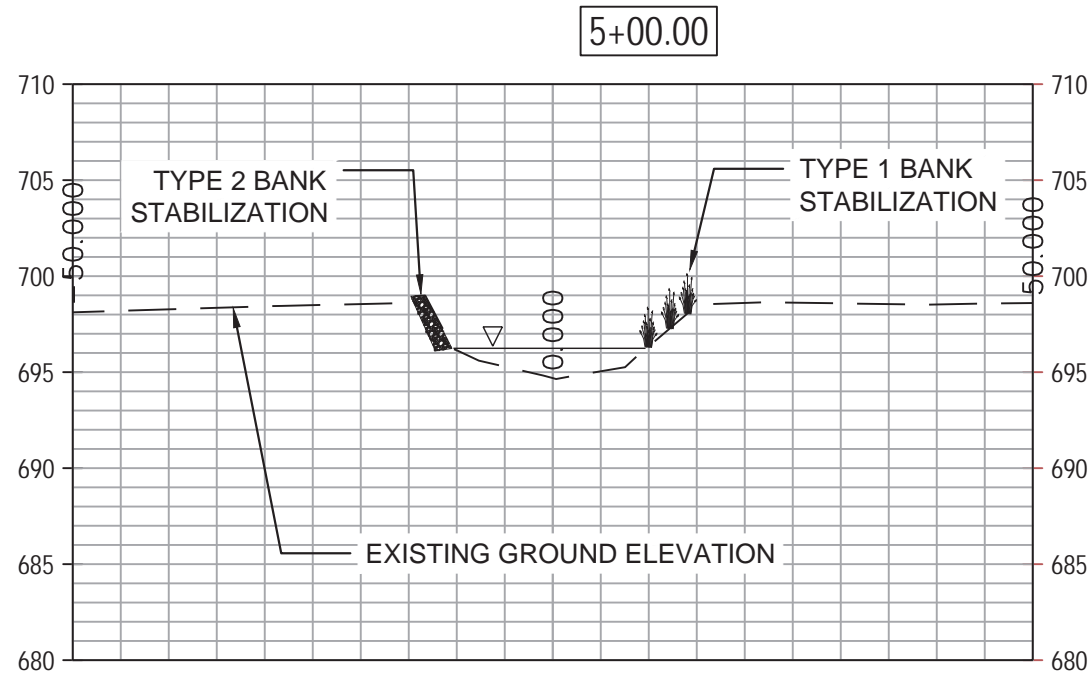
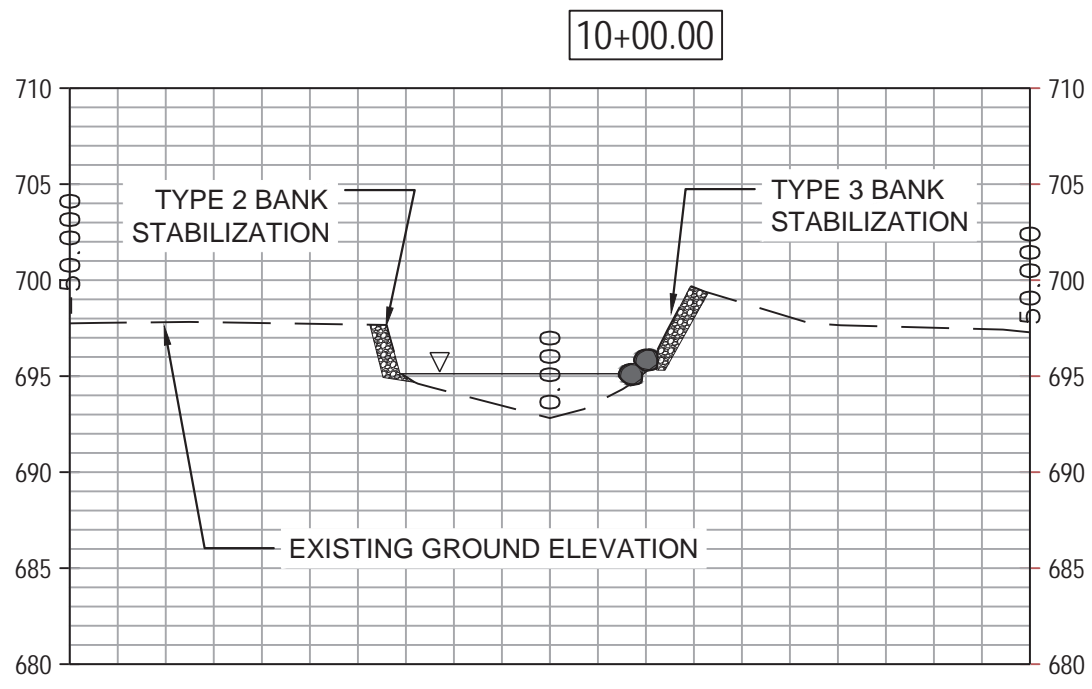
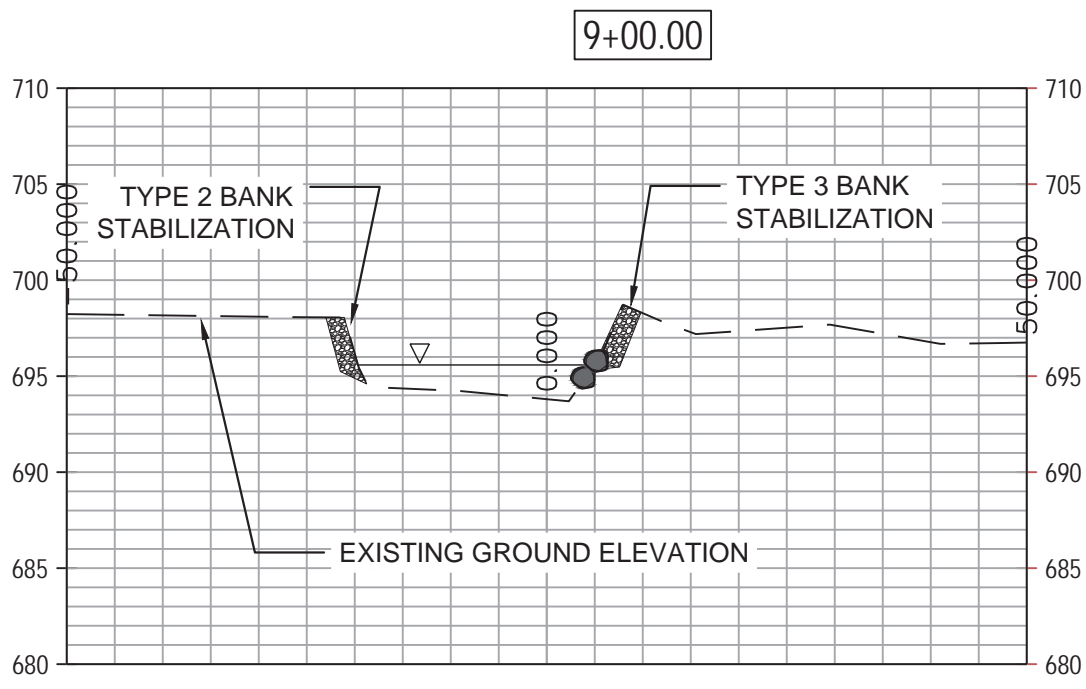
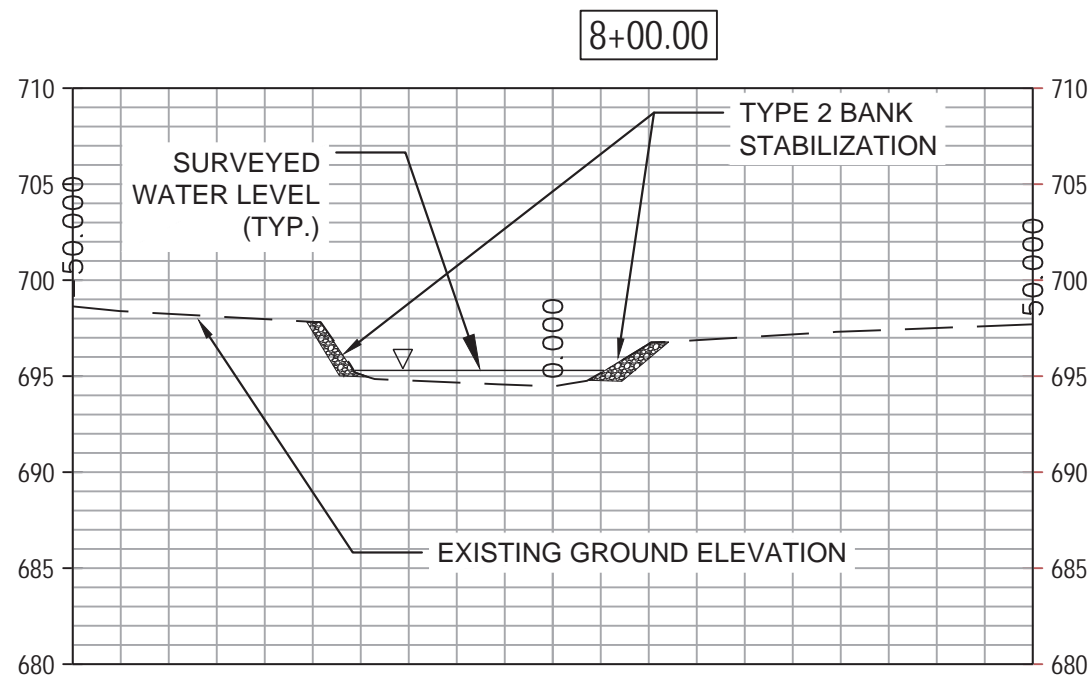
C 1.06

SHEET

30

OF 48

CAD DWG FILE: \\dept - Planning\DRAWING\SRG\ROZ-023-101\Drawing\CAD\Final dwg\Spring brook Proposed.dwg



ADDED UPSTREAM CROSS-SECTIONS, LABELED WATER SURFACE ON ALL SHEETS

OWNER: STREET ADDRESS:
3 S 580 NAPERVILLE ROAD
WHEATON, IL 60189-8761

MAILING ADDRESS:
P.O. BOX 5000
WHEATON, IL 60189-5000

CONTACT NUMBERS:
PH# 630-933-7200
FAX# 630-933-7204

BLACKWELL FOREST PRESERVE SPRING BROOK PHASE III

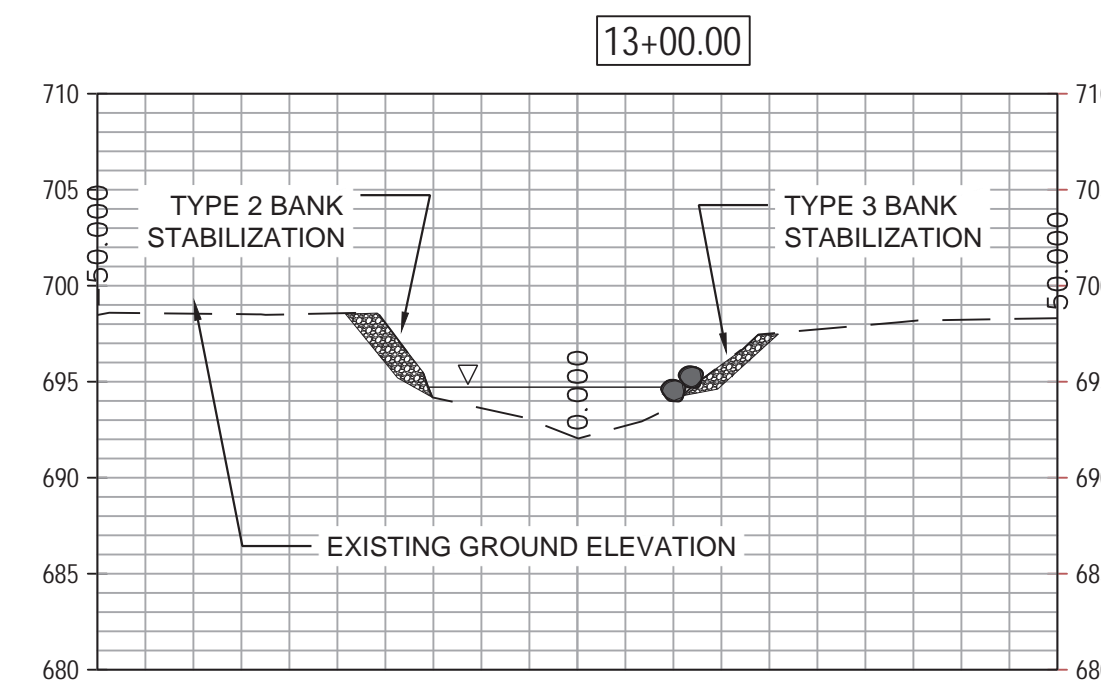
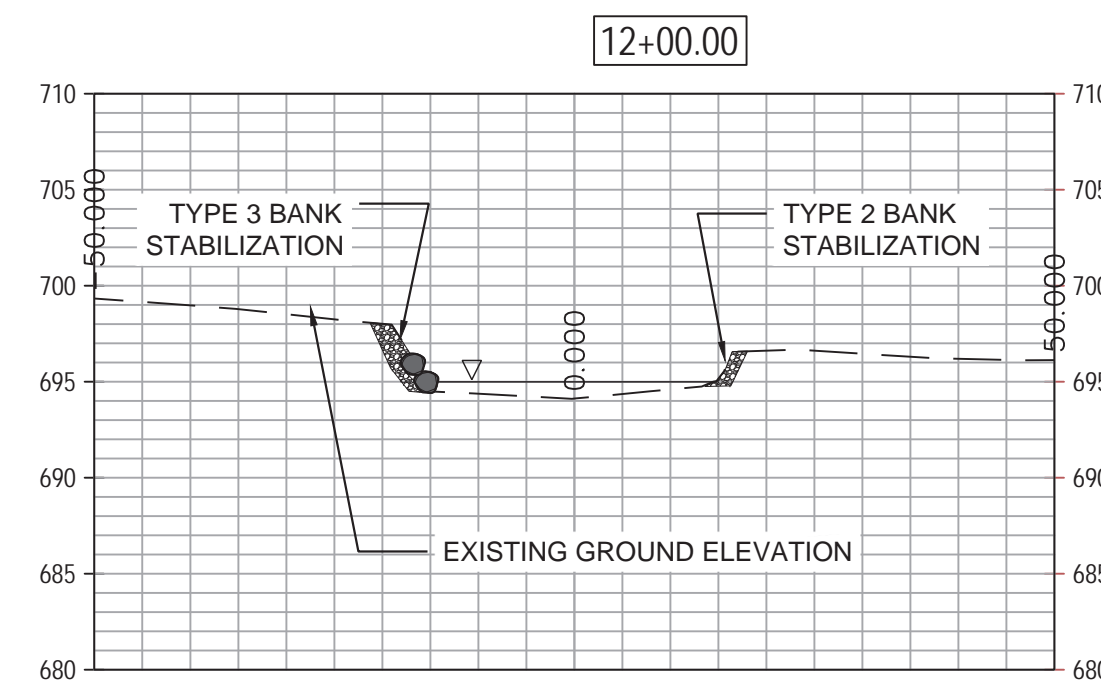
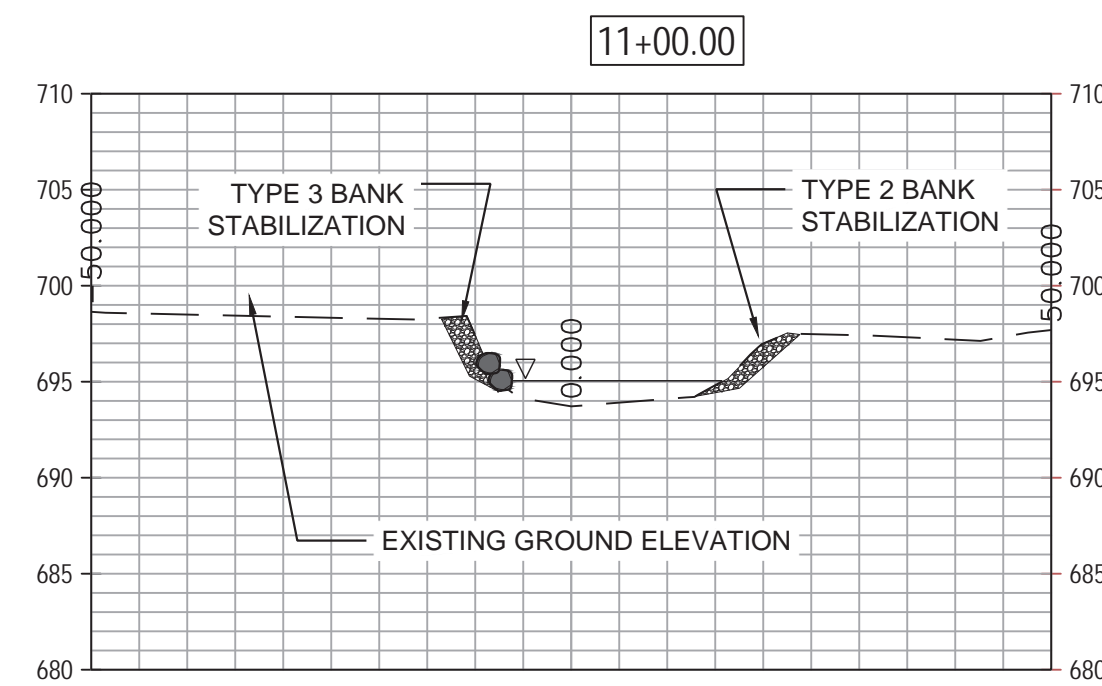
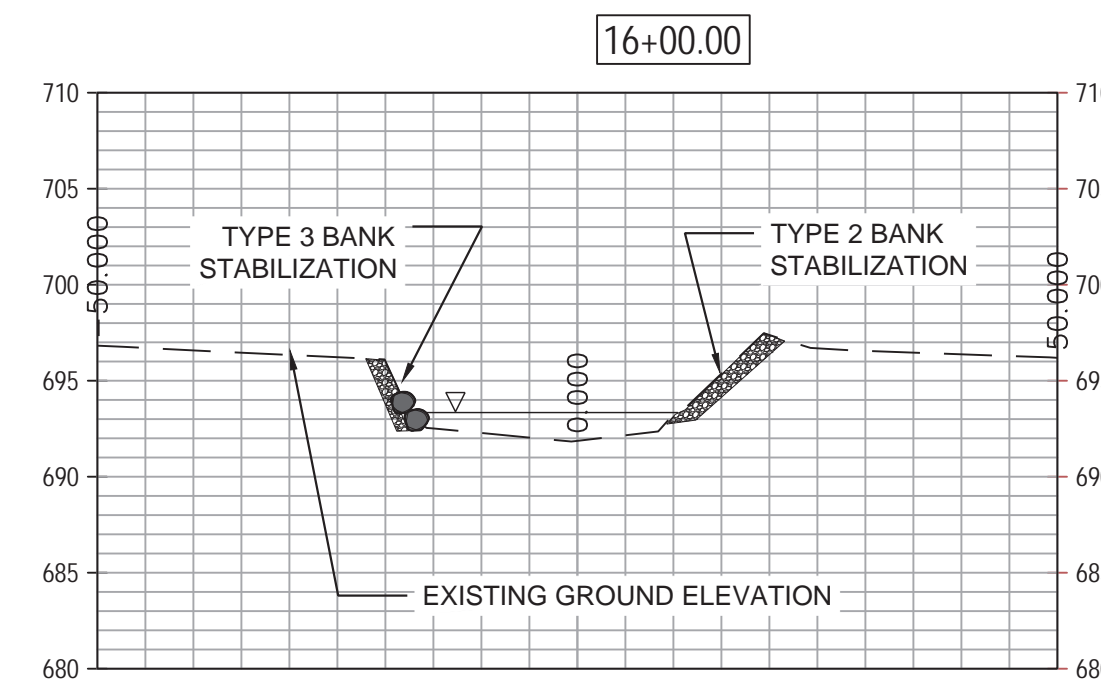
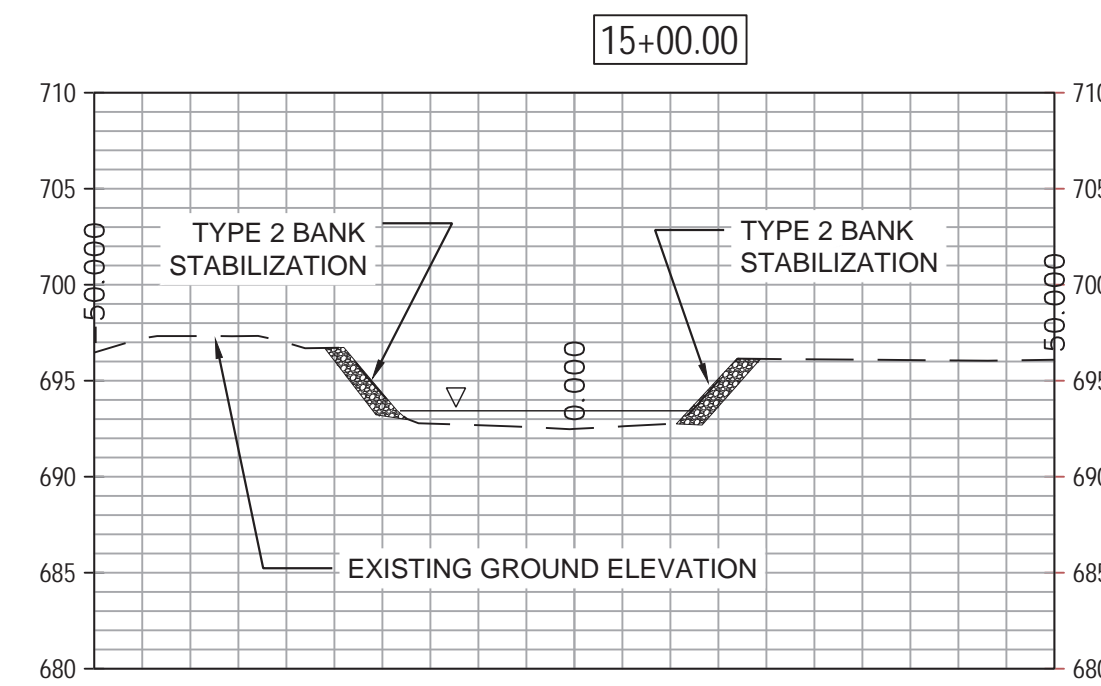
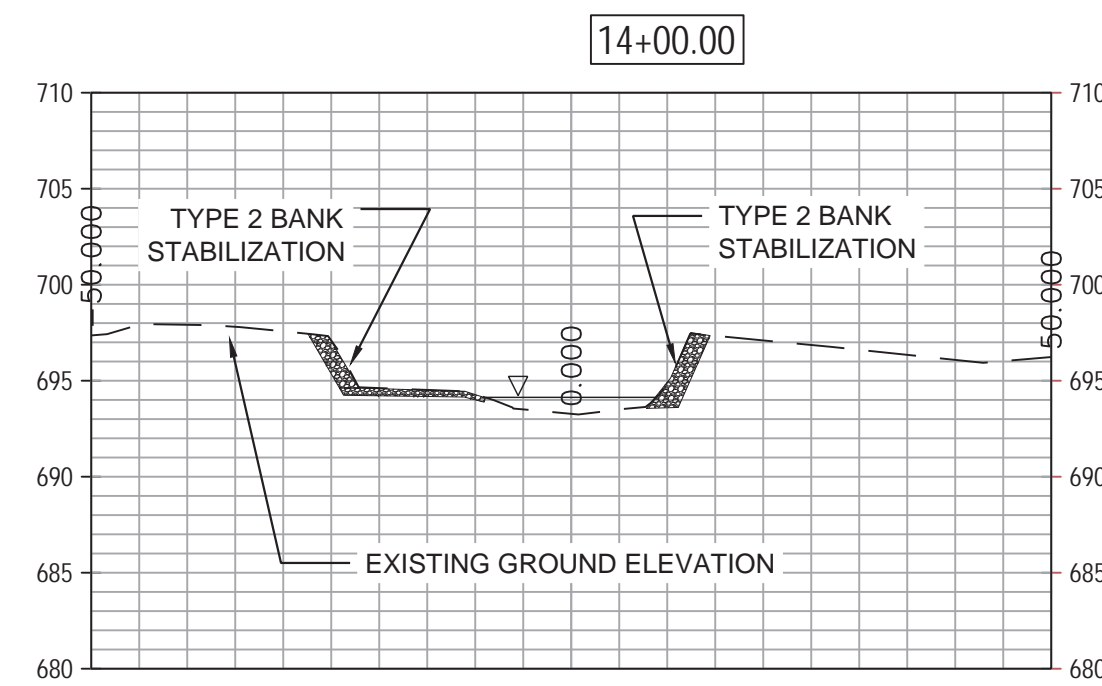
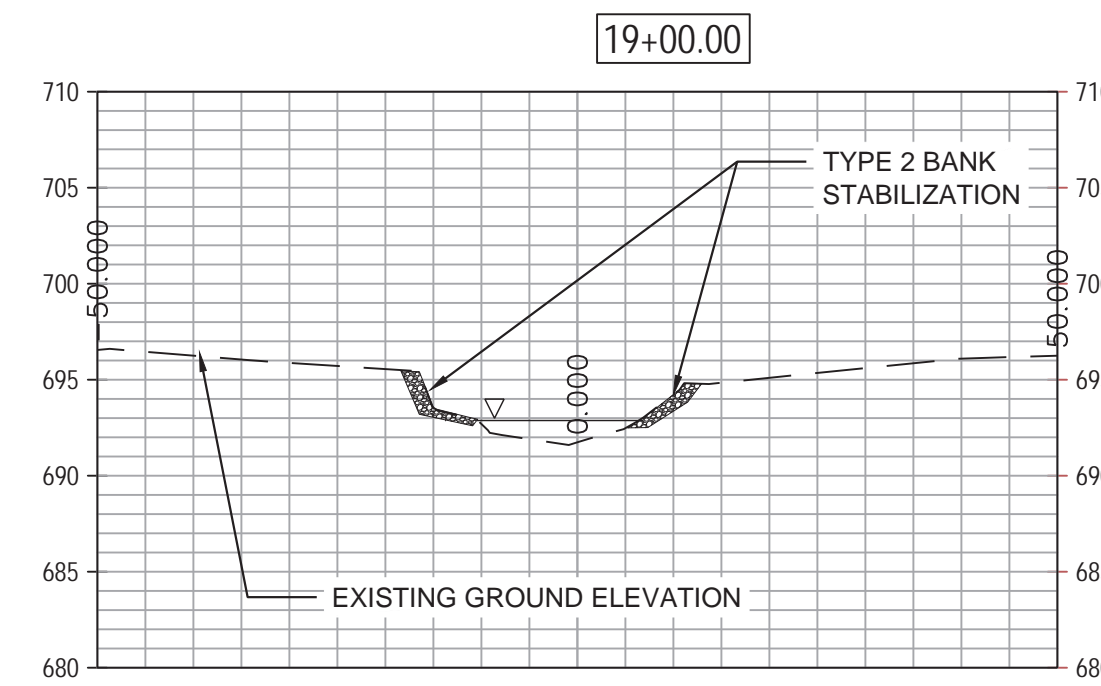
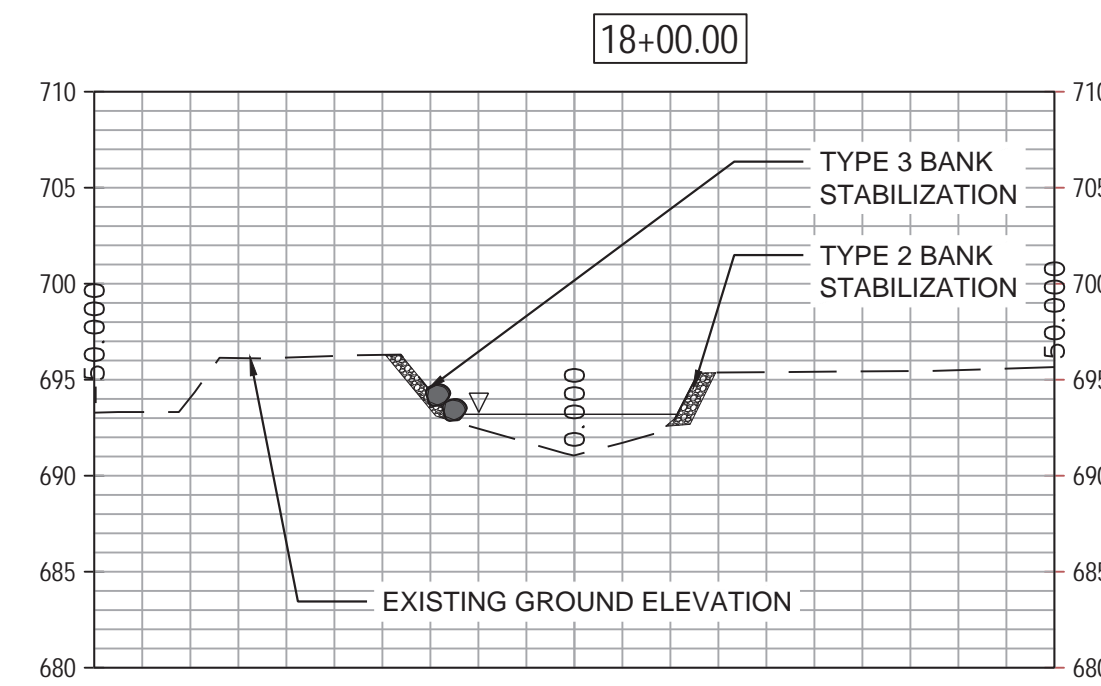
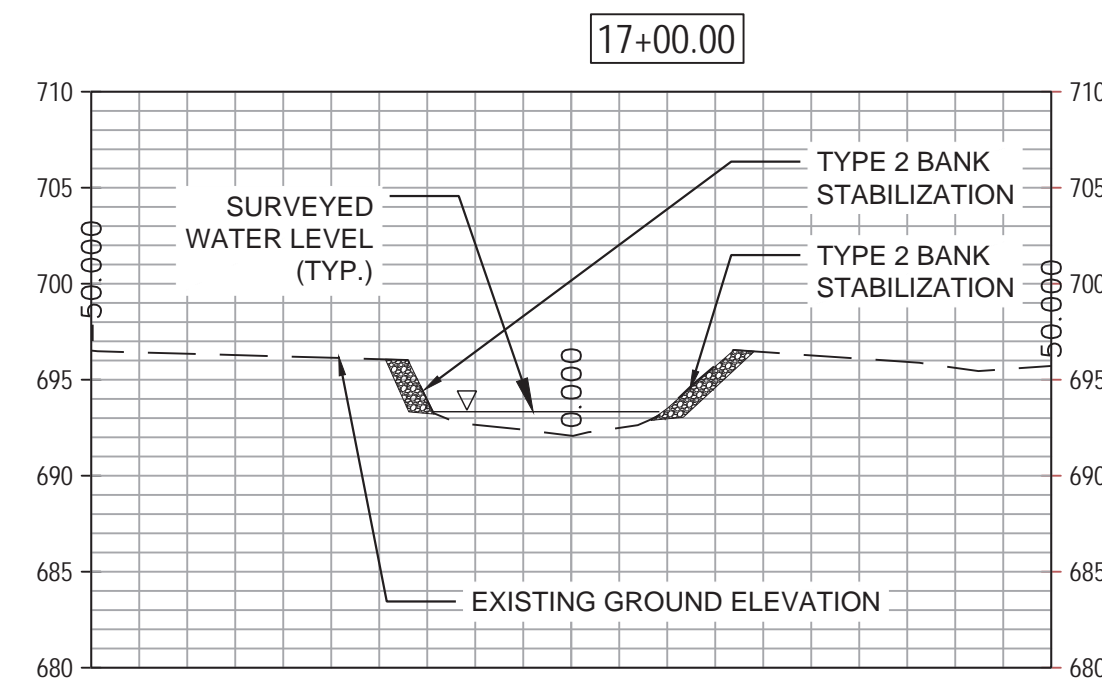
MARK:	DATE:	DESCRIPTION:

PROJECT NO: Z-023-101
DRAWN BY:
CHECKED BY:
DATE: August 28, 2024
SCALE:

SHEET TITLE: PROPOSED CROSS SECTIONS

SHEET NO:
C 1.07

SHEET 31 OF 48



OWNER:

STREET ADDRESS:

3 S 580 NAPERVILLE ROAD
NAPERVILLE, IL 60563-2701

MAILING ADDRESS:

P.O. BOX 5000
WHEATON, IL 60189-5000

CONTACT NUMBERS:

PH# 630-933-7200
FAX# 630-933-7204

BLACKWELL FOREST PRESERVE

SPRING BROOK PHASE III

[illegible]

FAX#

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CHECKED BY:	
DATE:	August 28, 2024
SCALE:	

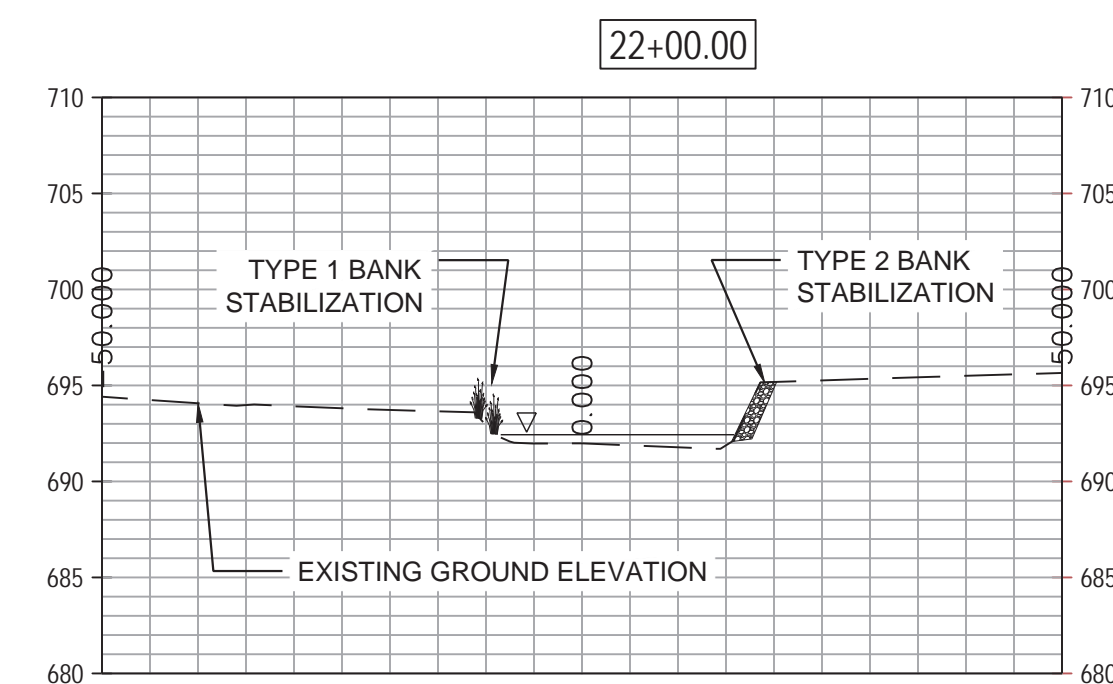
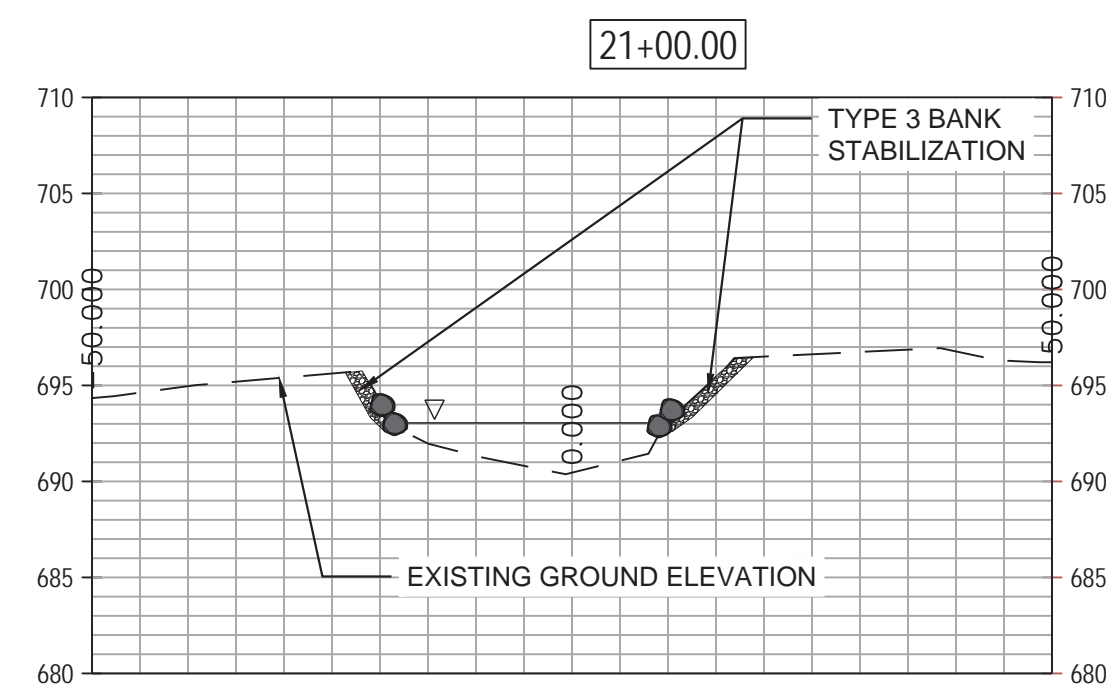
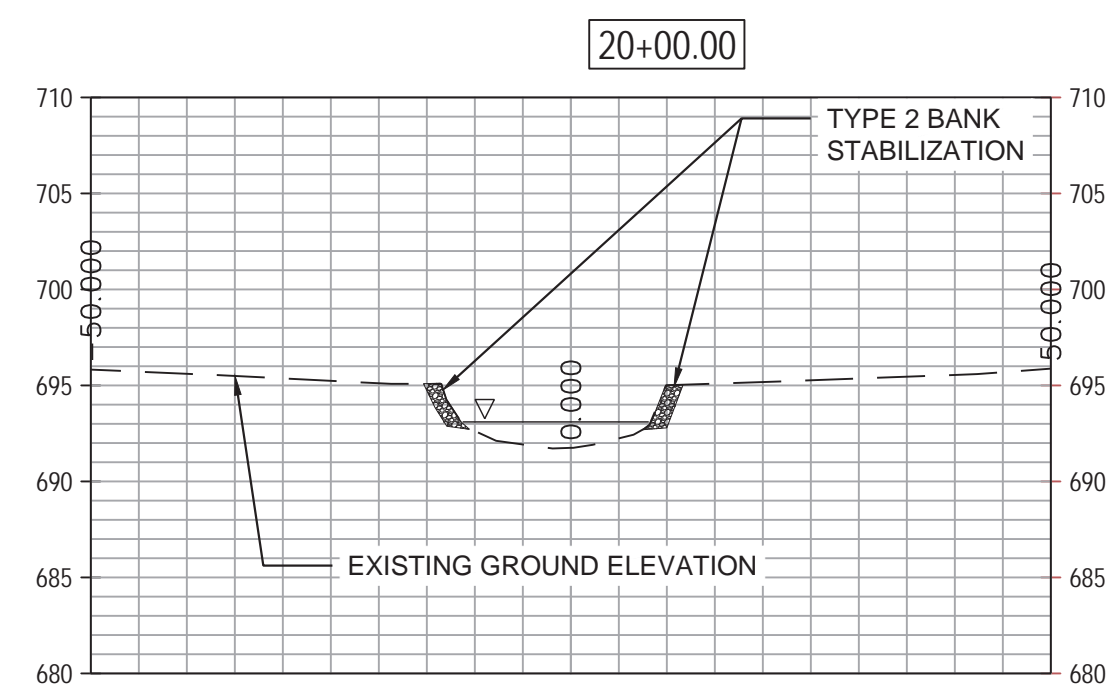
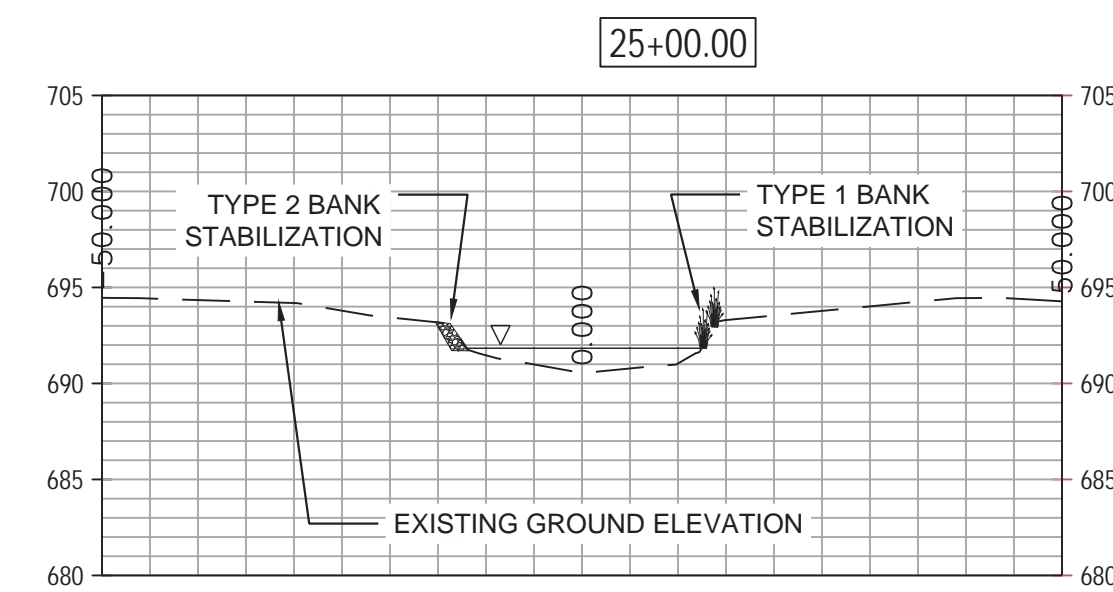
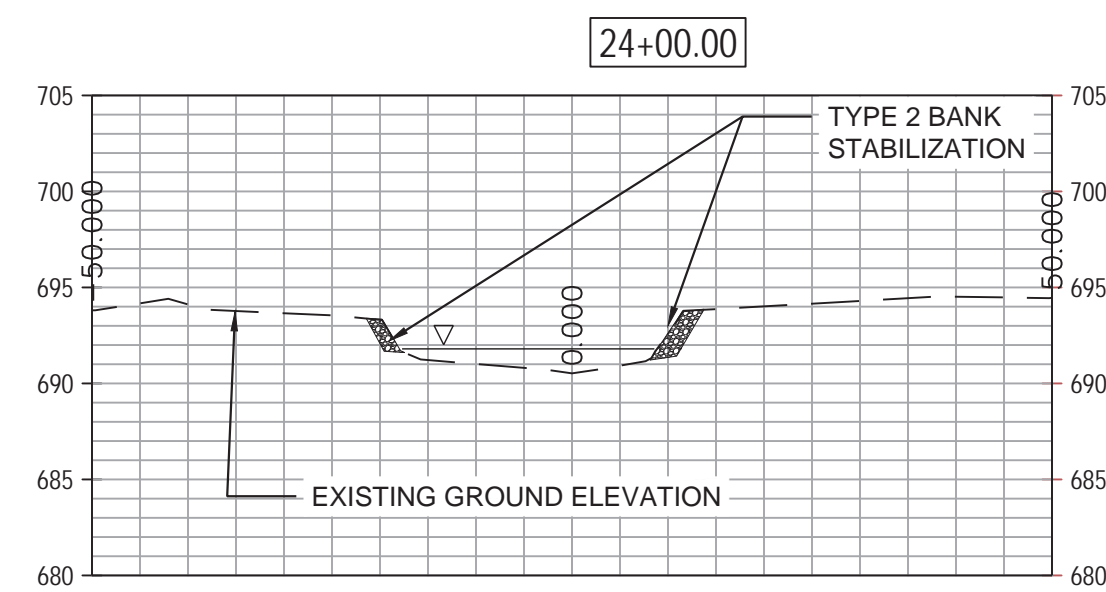
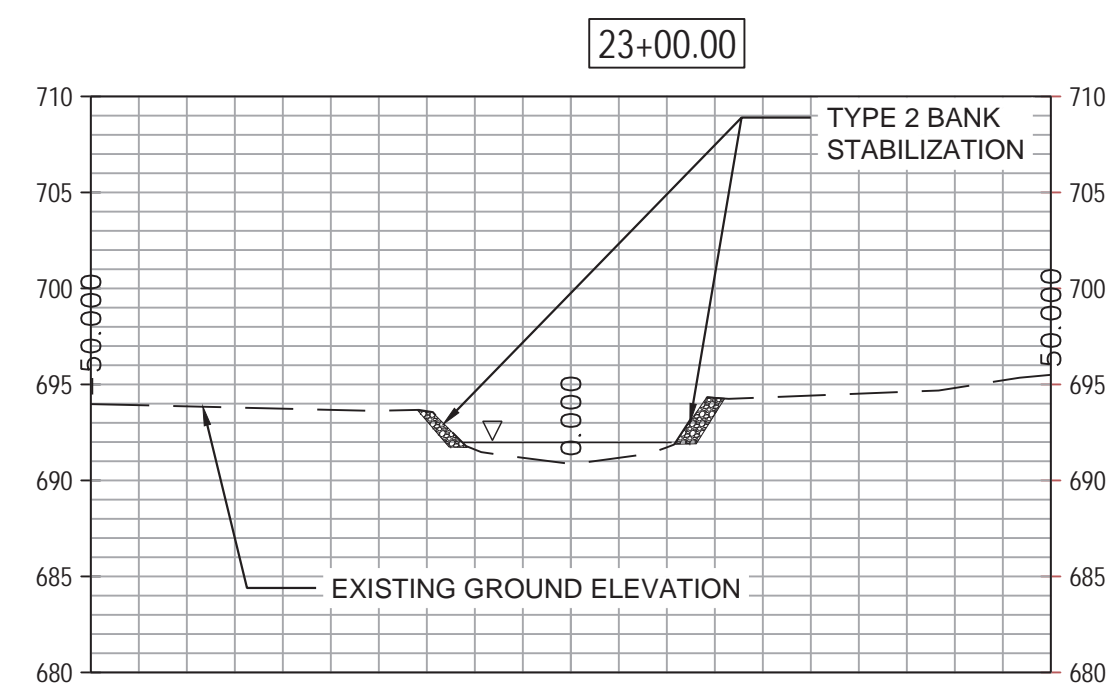
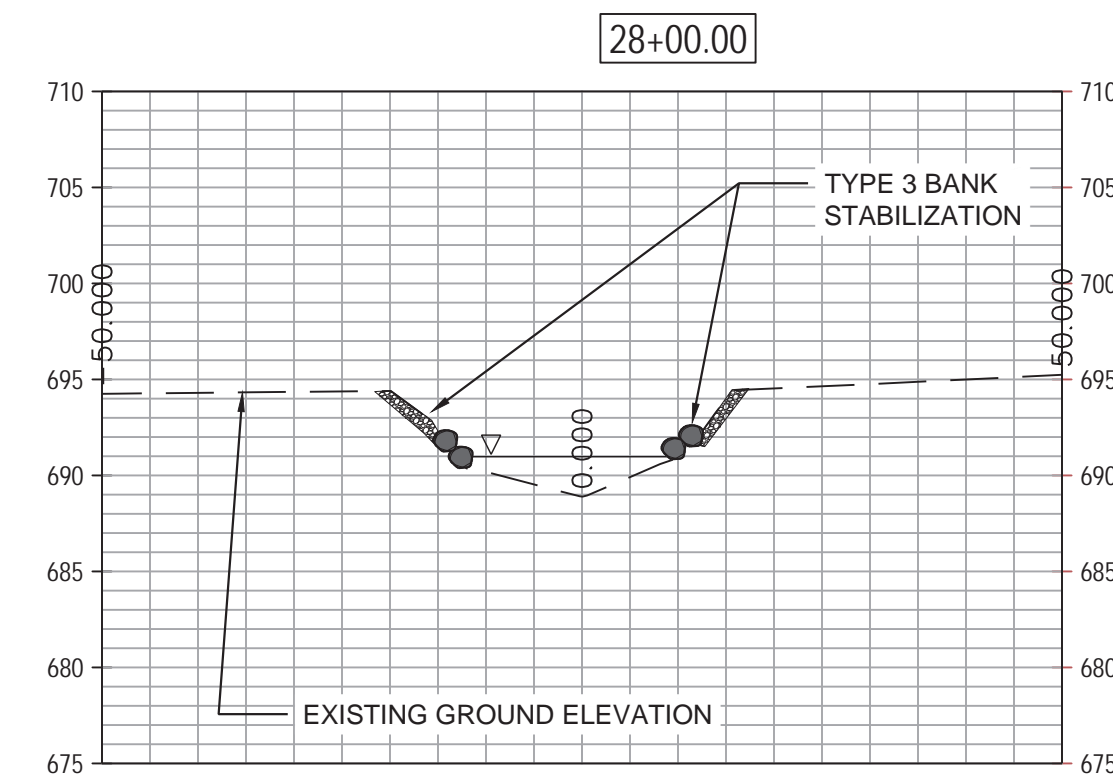
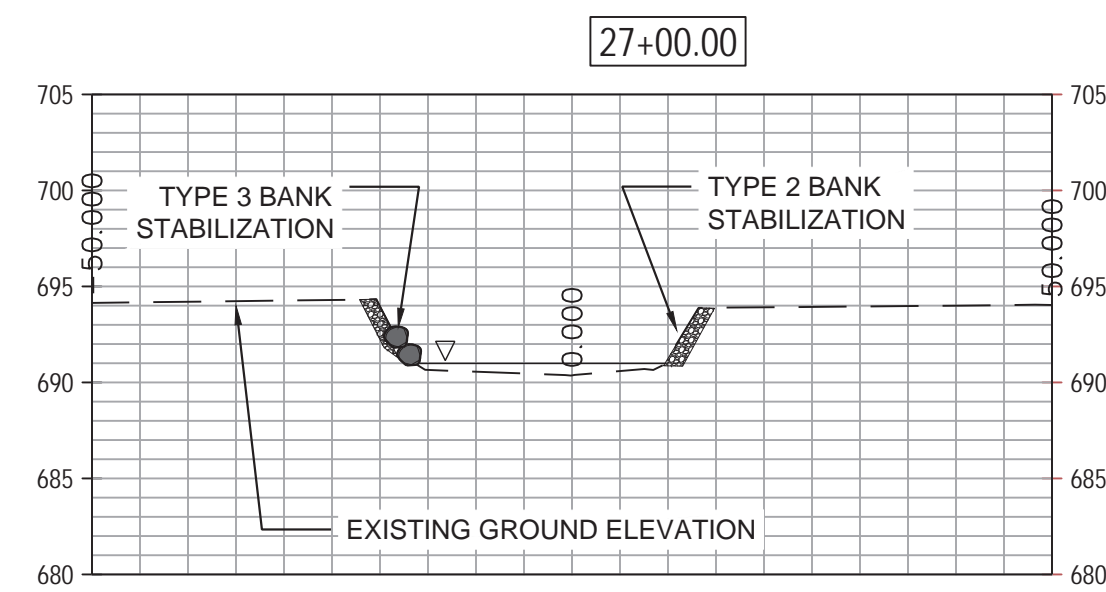
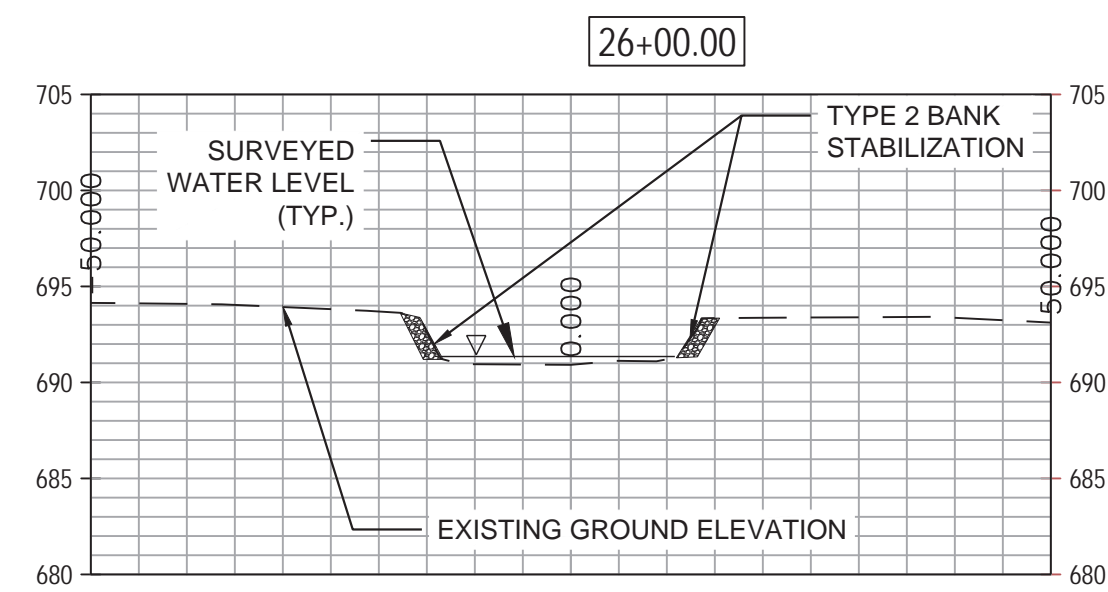
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PROPOSED CROSS
SECTIONS

SHEET NO: C 1.08

SHEET 32 OF 48

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BLACKWELL FOREST PRESERVE
SPRING BROOK PHASE III

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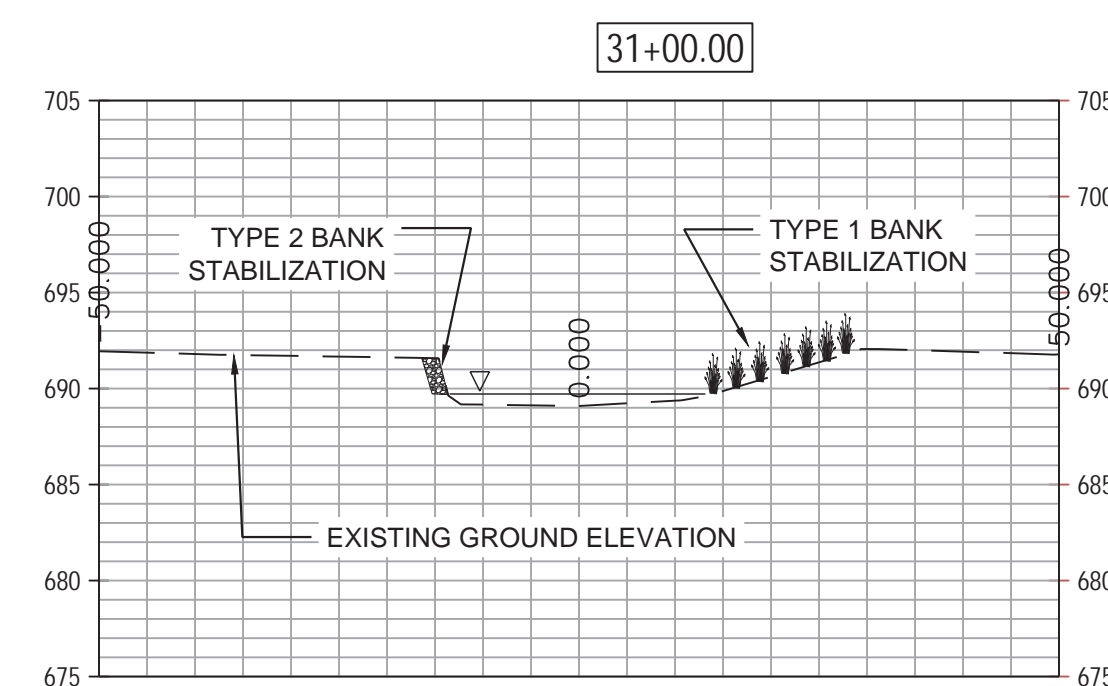
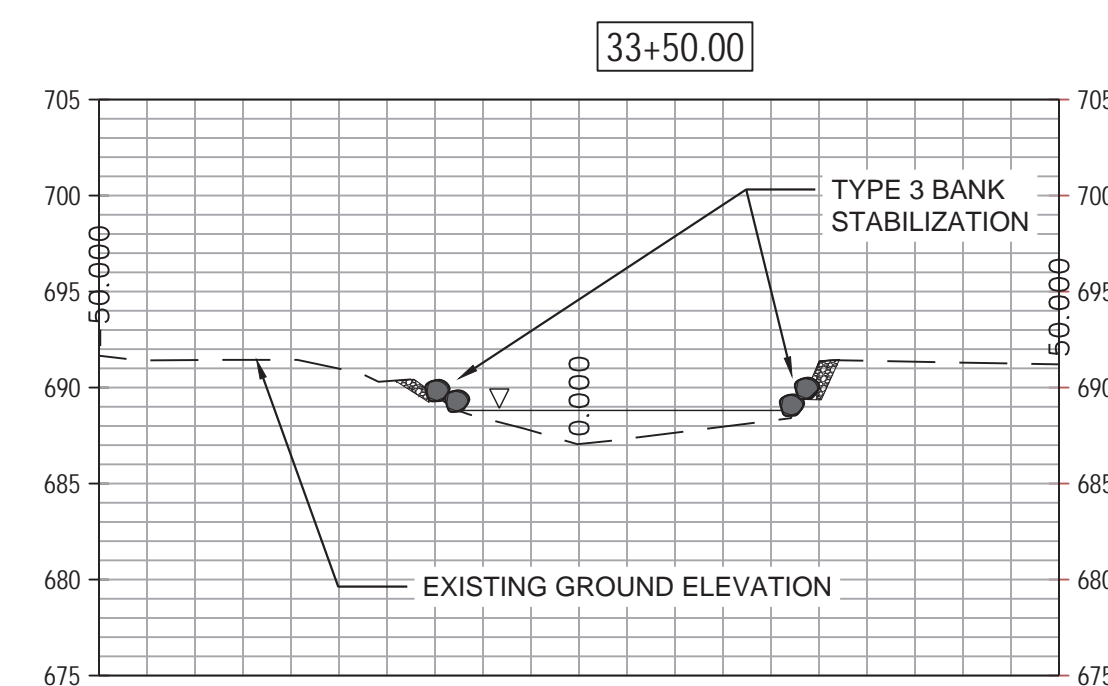
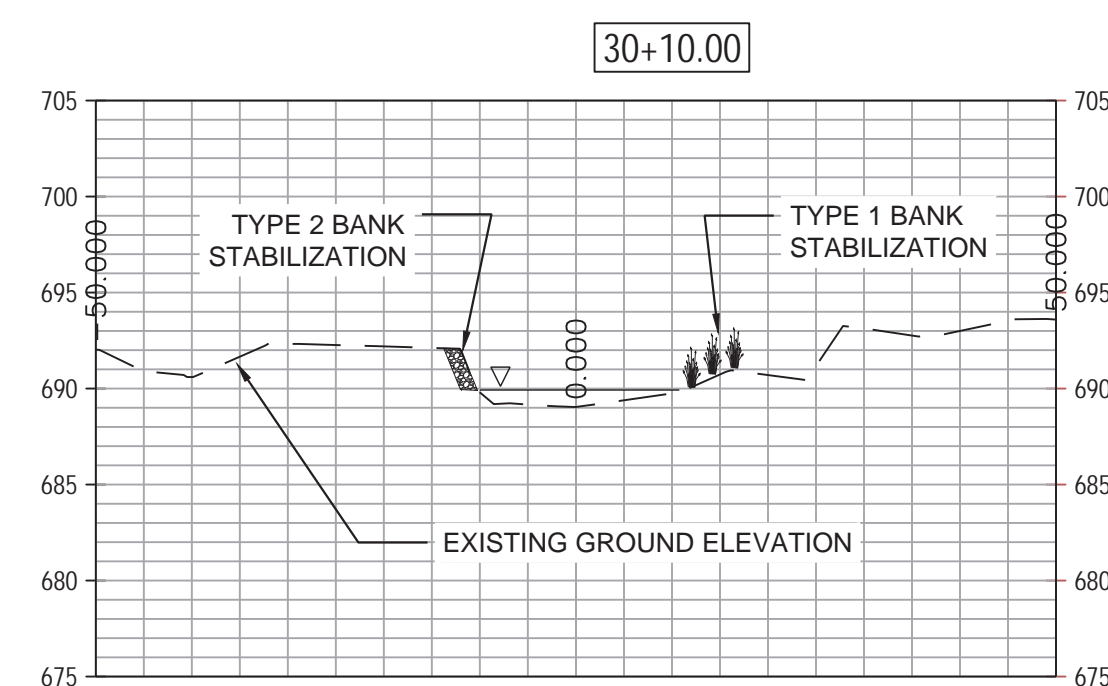
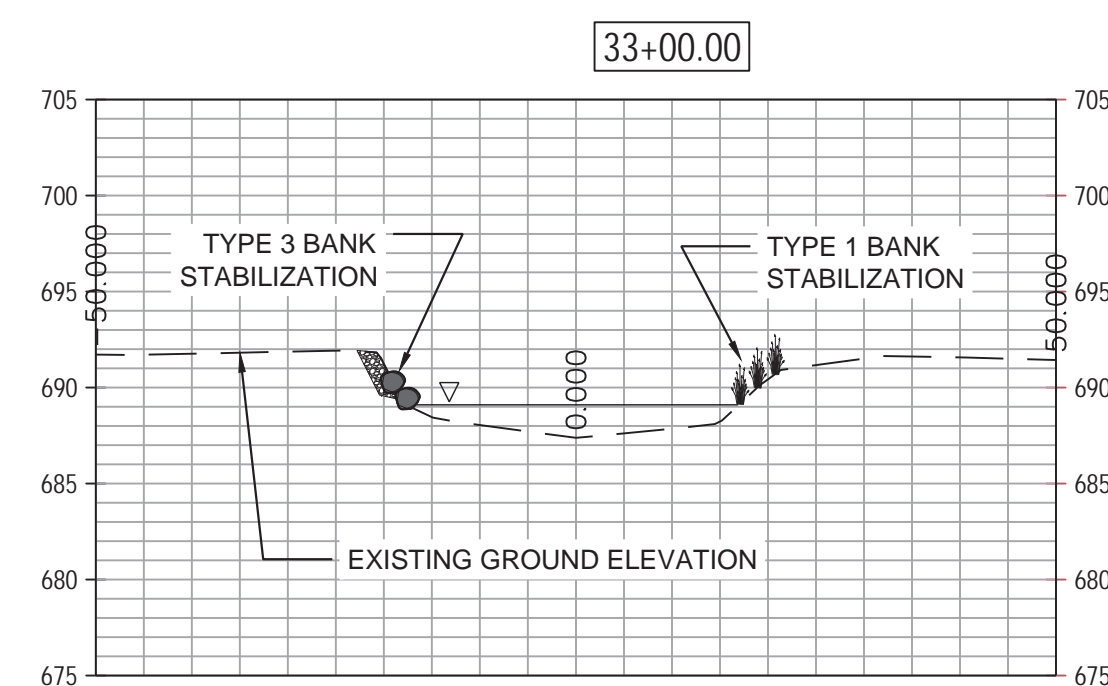
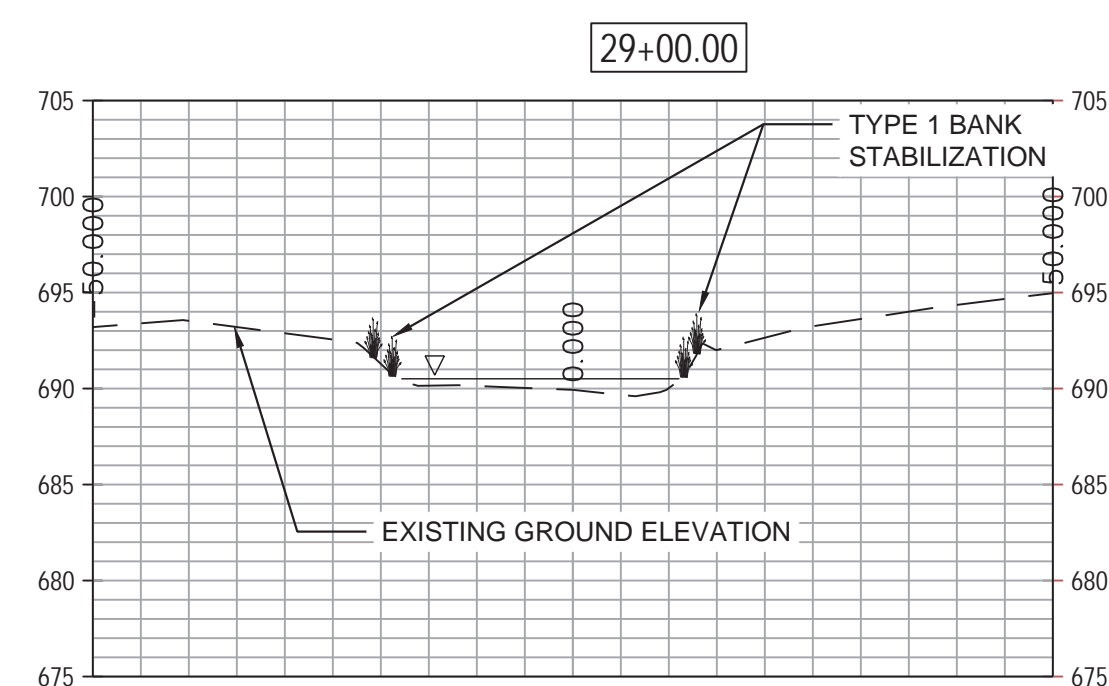
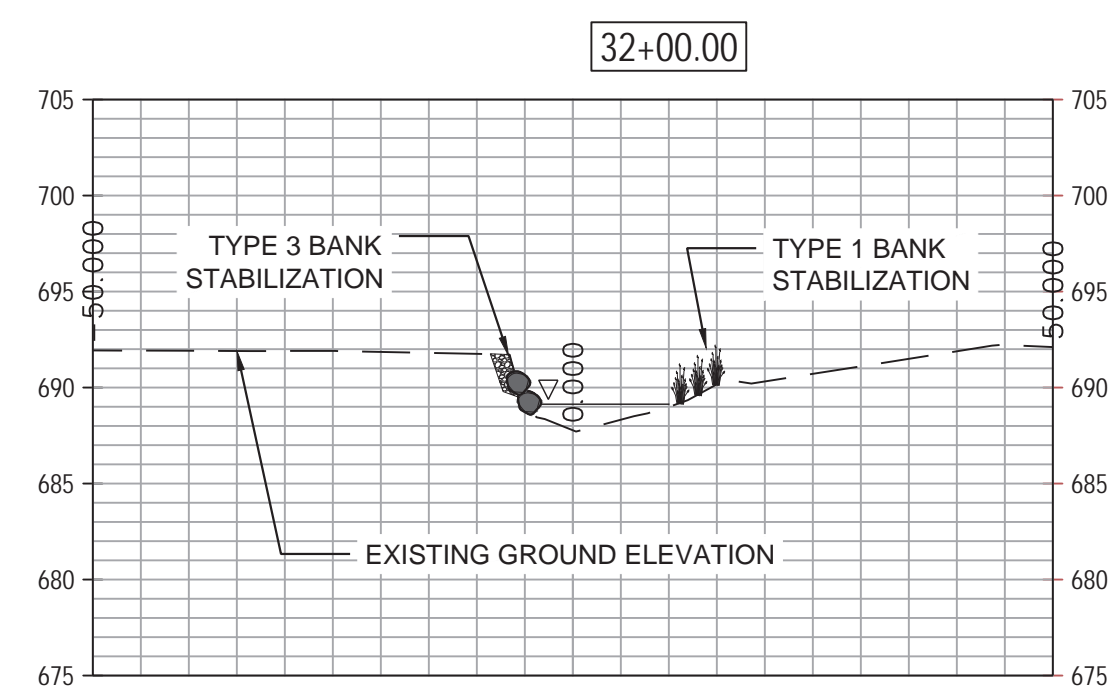
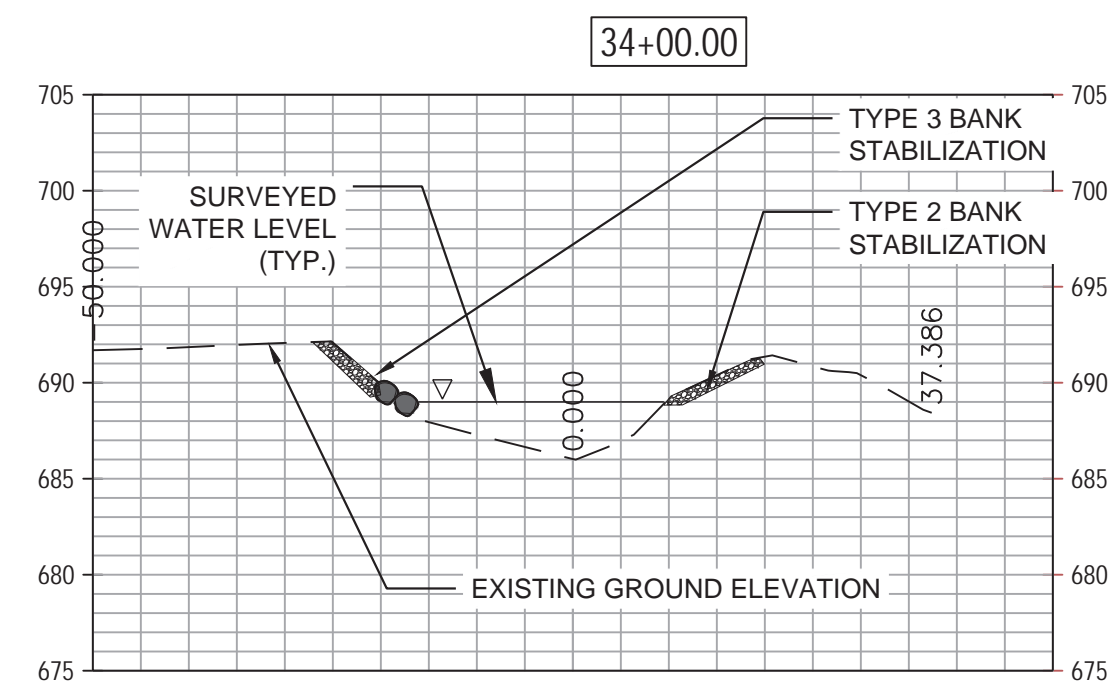
PROJECT NO:	Z-023-101
DRAWN BY:	
CHECKED BY:	
DATE:	August 28, 2024
SCALE:	

SHEET TITLE:

PROPOSED CROSS
SECTIONS

SHEET NO: C 1.09

SHEET 33 OF 48



OWNER:



STREET ADDRESS:

S 580 NAPERVILLE ROAD
WHEATON, IL 60189-8761

MAILING ADDRESS:

P.O. BOX 5000
WHEATON, IL 60189-5000

CONTACT NUMBERS:

PH# 630-933-7200
 FAX# 630-933-7204

BLACKWELL FOREST PRESERVE

SPRING BROOK PHASE III

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[illegible][illegible]

.....

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PROJECT NO:	Z-023-101
DRAWN BY:	
CHECKED BY:	
DATE:	August 28, 2024
SCALE:	

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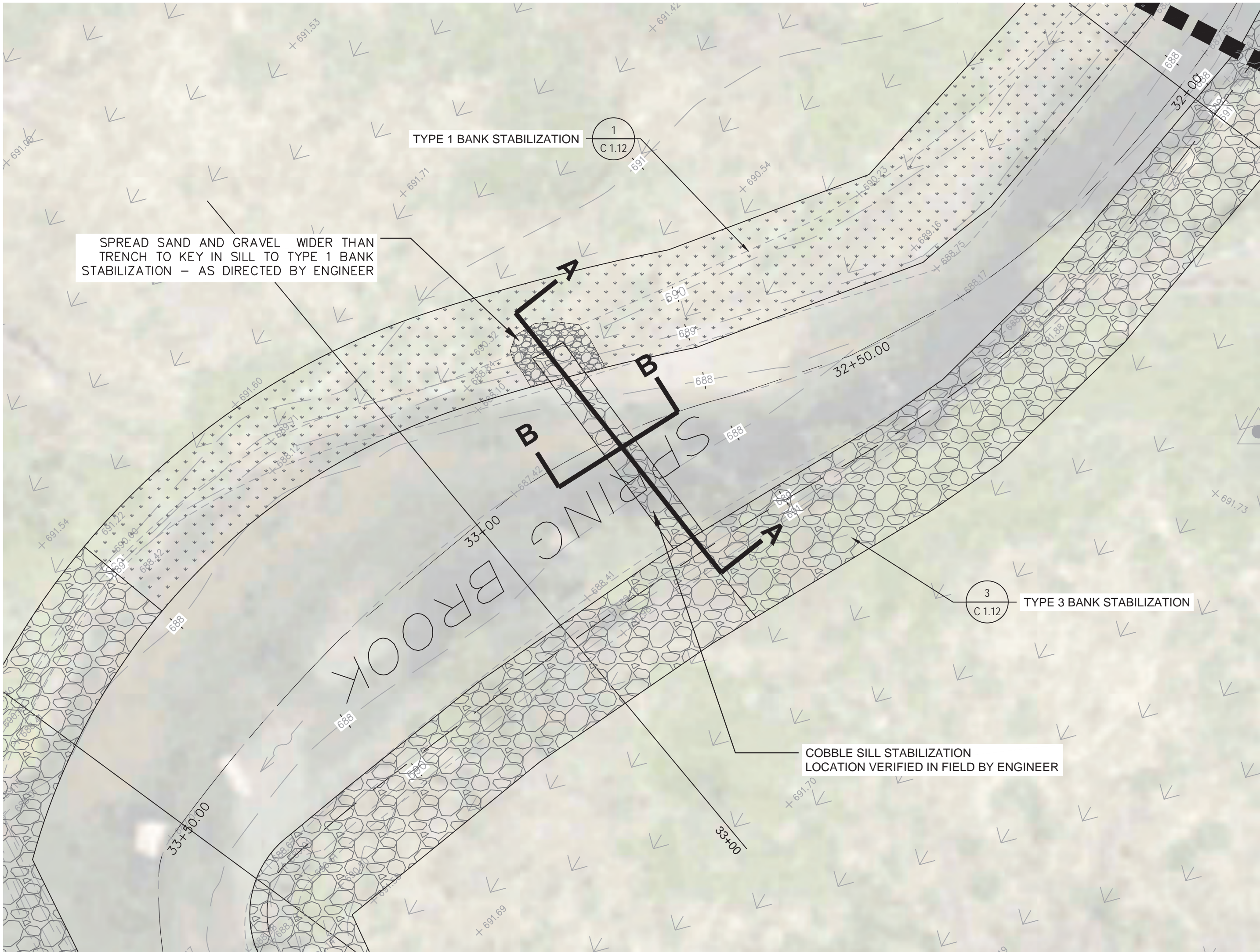
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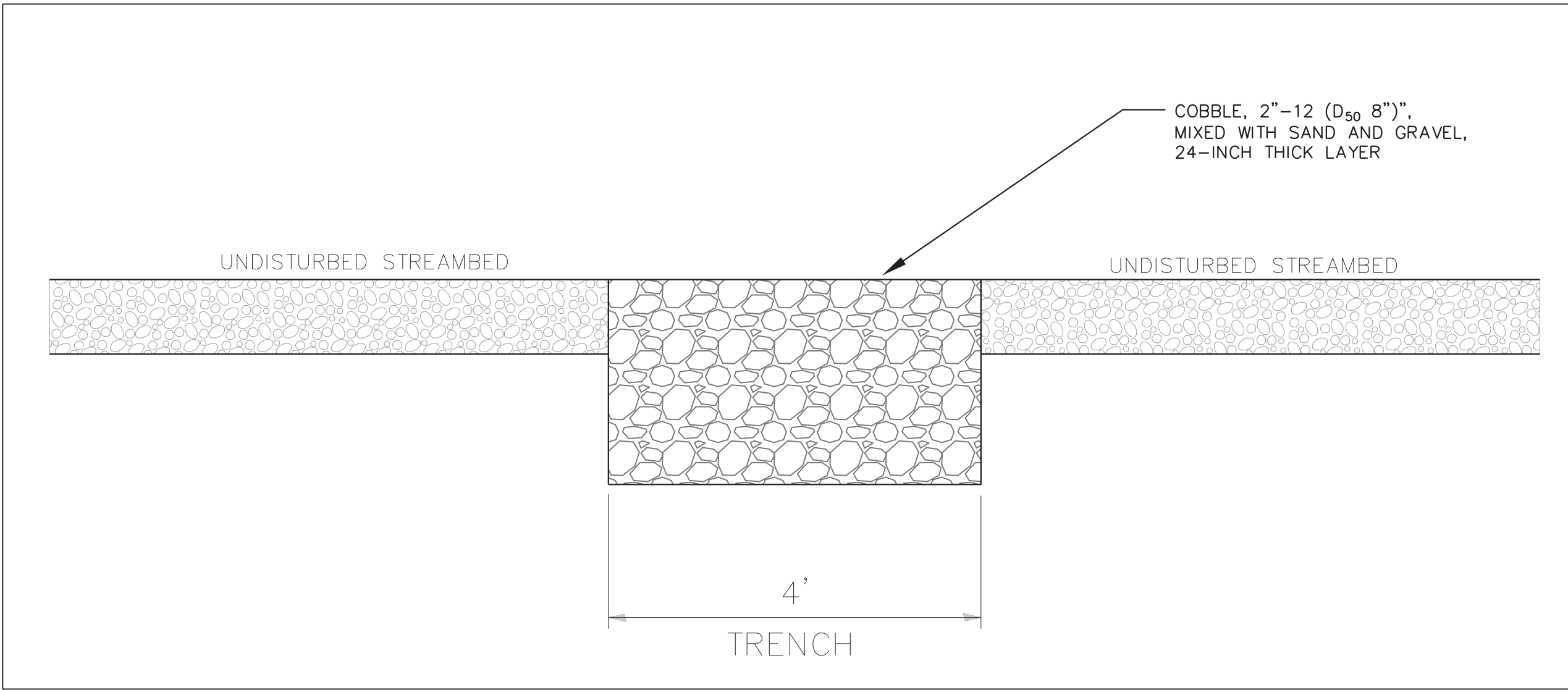
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SHEET 34 OF 48

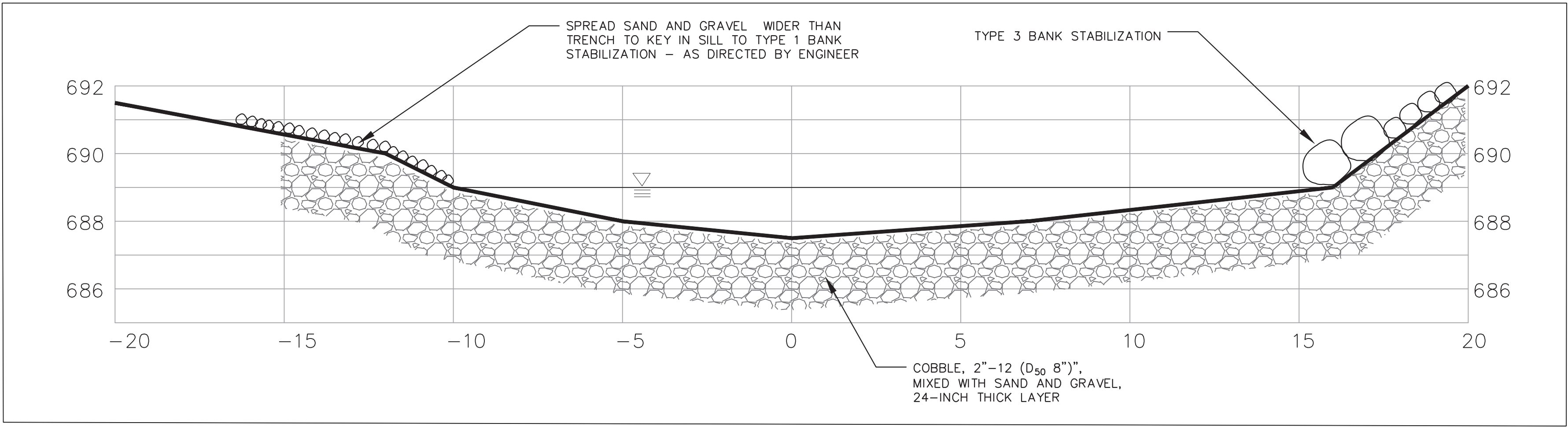
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COBBLE SILL PLACEMENT DETAIL PLAN VIEW



CROSS-SECTION B-B



CROSS-SECTION A-A

1 COBBLE SILL DETAIL
C 1.11 SCALE: N.T.S.

OWNER: STREET ADDRESS:
3 S 580 NAPERVILLE ROAD
WHEATON, IL 60189-8761
MAILING ADDRESS:
P.O. BOX 5000
WHEATON, IL 60189-5000
CONTACT NUMBERS:
PH# 630-933-7200
FAX# 630-933-7204

BLACKWELL FOREST PRESERVE
SPRING BROOK PHASE III

MARK:	DATE:	DESCRIPTION:

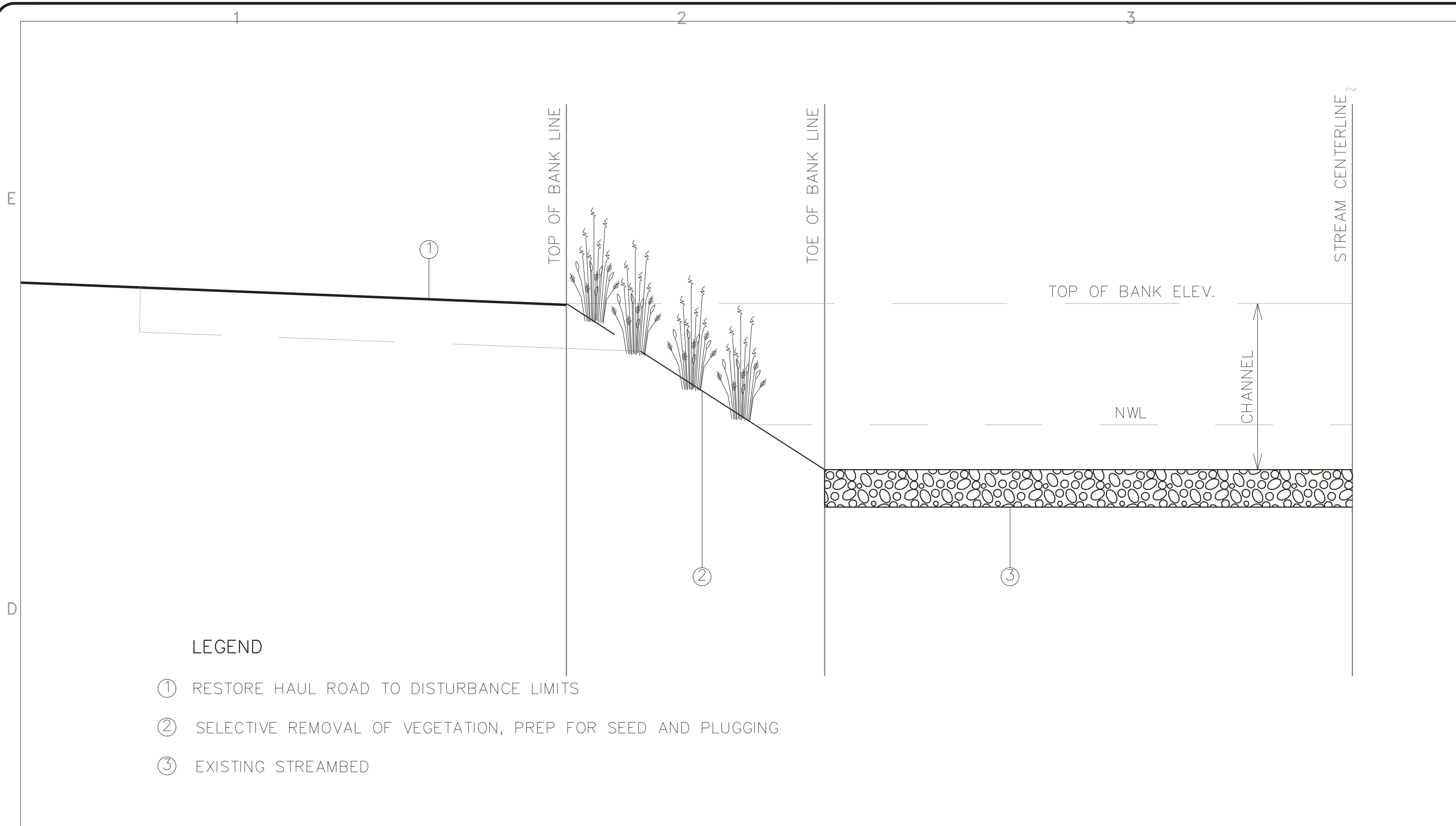
PROJECT NO: Z-023-101
DRAWN BY:
CHECKED BY:
DATE: August 28, 2024
SCALE:

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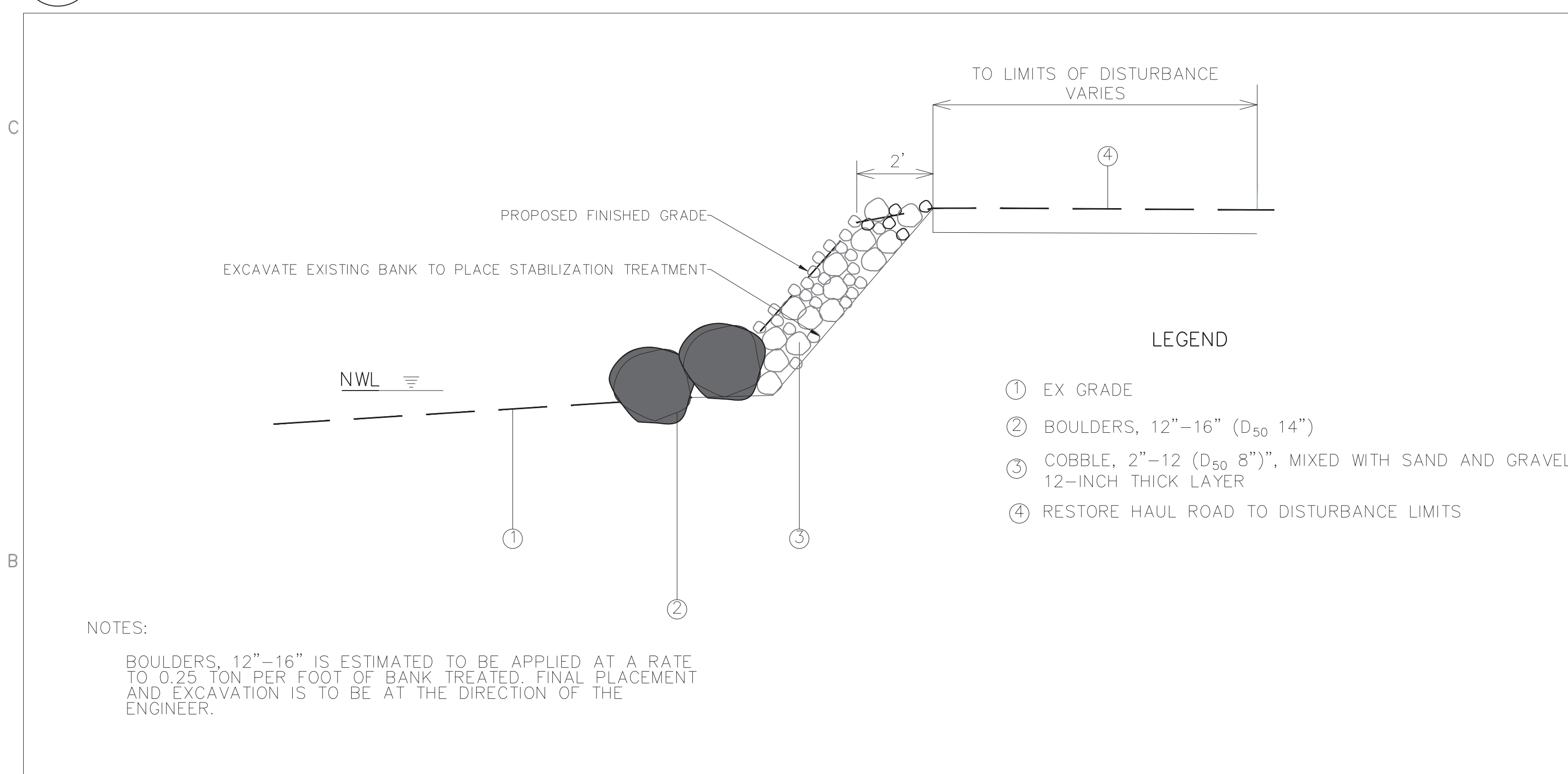
DETAILS

SHEET NO:
C 1.11
SHEET 35 OF 48

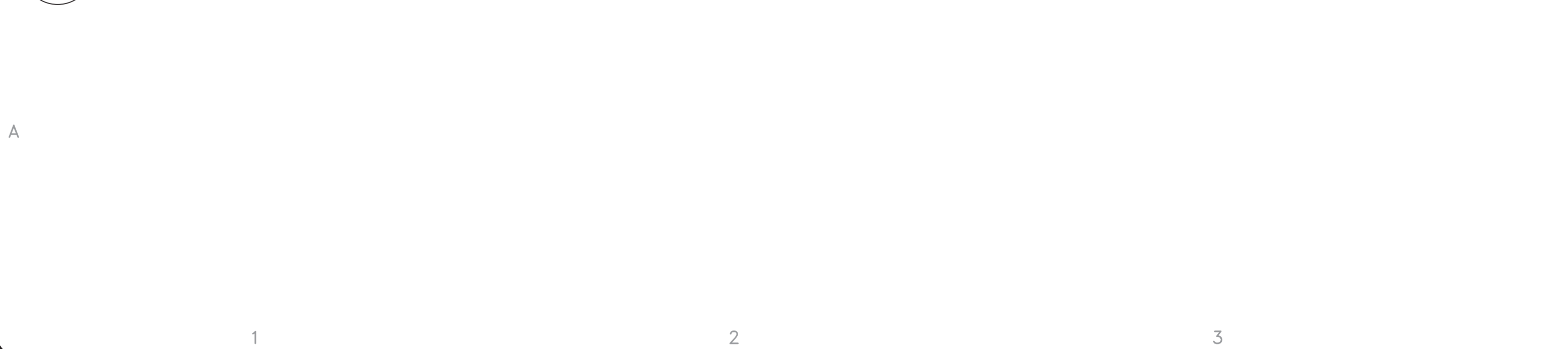
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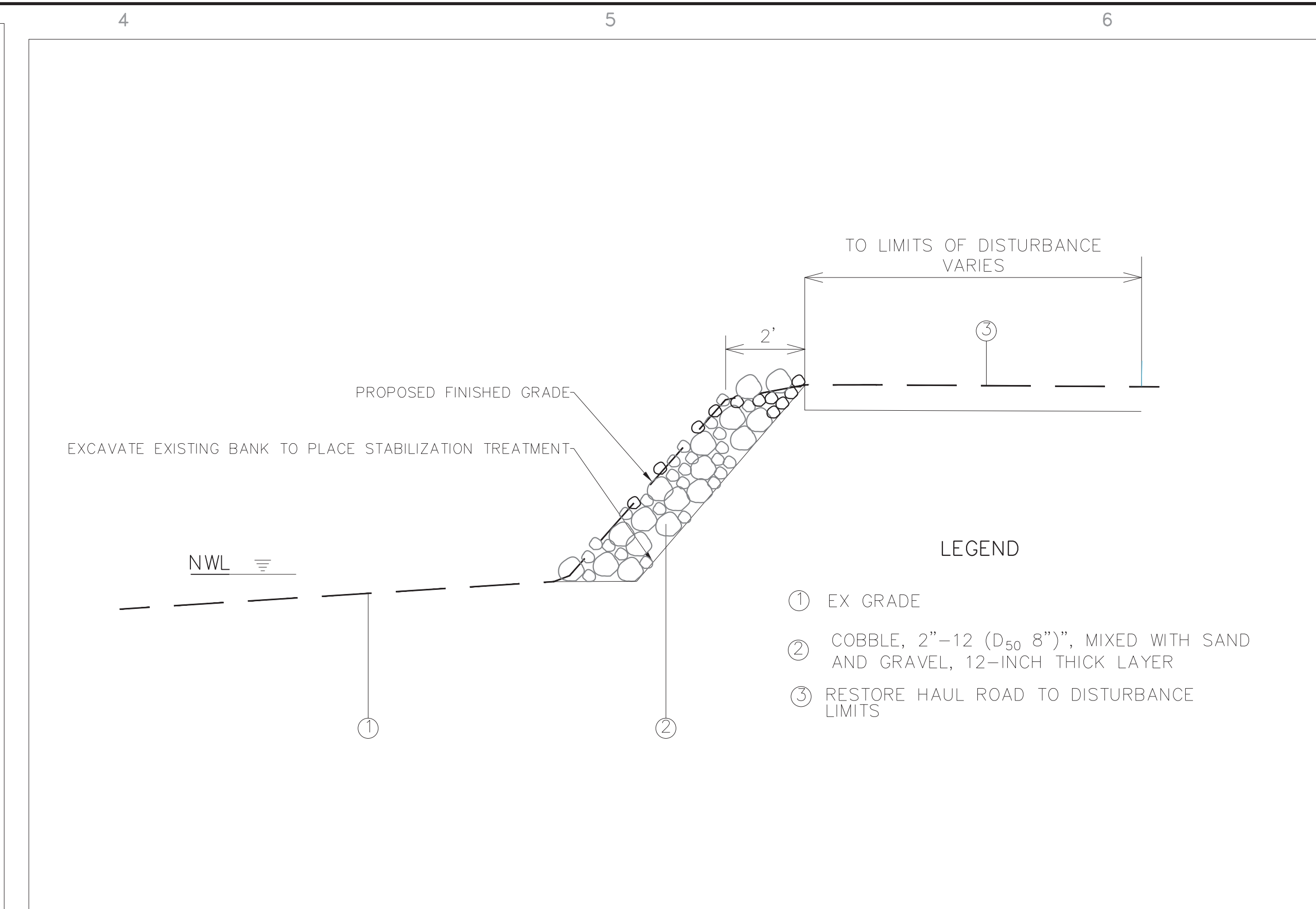
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C 1.11 SCALE: N.T.S.



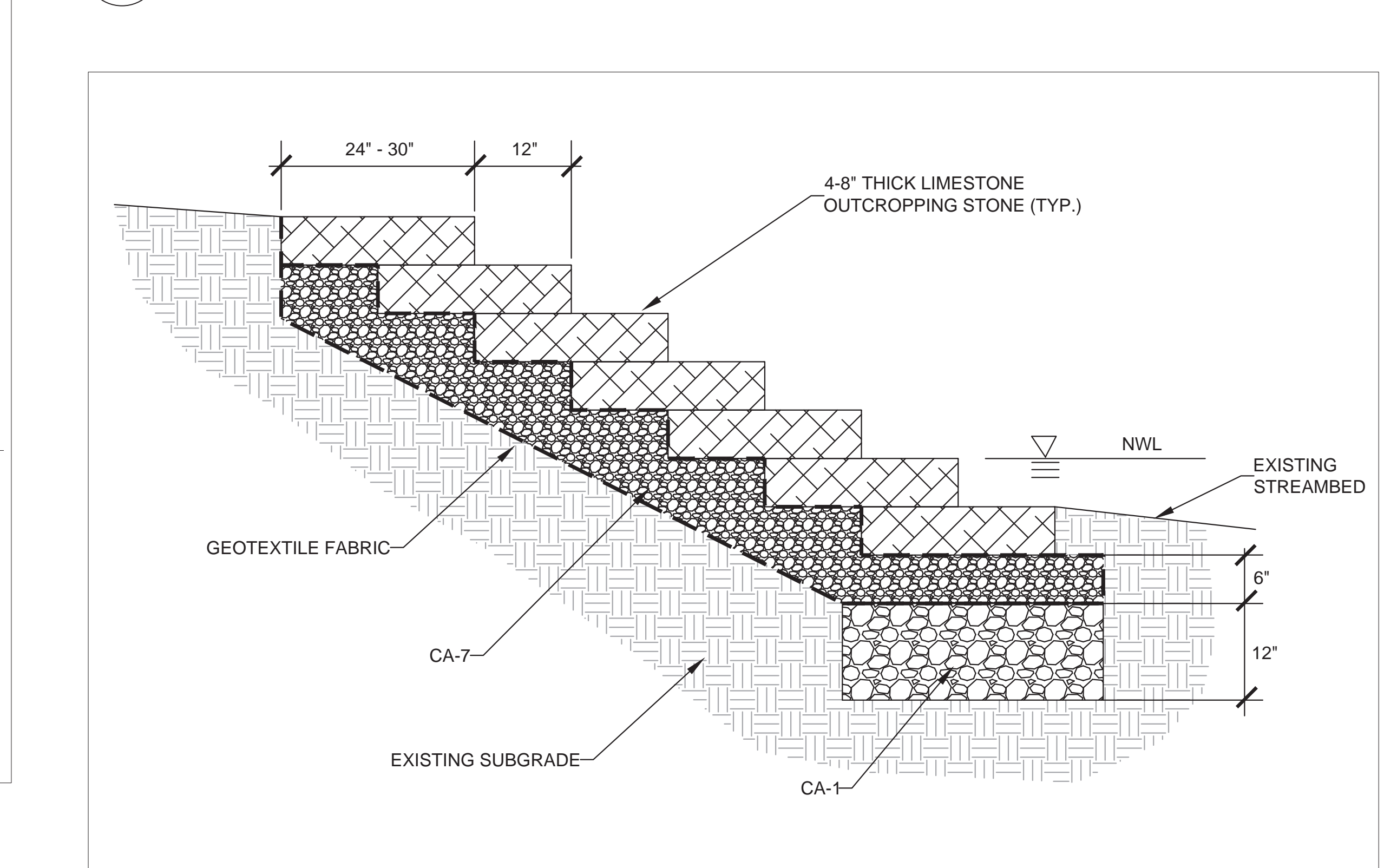
3 RESTORATION FOR BANK STABILIZATION TYPE 3
C 1.11 SCALE: N.T.S.



4 LIMESTONE BANK STABILIZATION
C 1.11 SCALE: N.T.S.




2 RESTORATION FOR BANK STABILIZATION TYPE 2
C 1.11 SCALE: N.T.S.



4 LIMESTONE BANK STABILIZATION
C 1.11 SCALE: N.T.S.

OWNER:



STREET ADDRESS:

3 S 580 NAPERVILLE ROAD
WHEATON, IL 60189-8761

MAILING ADDRESS:

P.O. BOX 5000
WHEATON, IL 60189-5000

CONTACT NUMBERS:

PH# 630-933-7200
FAX# 630-933-7204

BLACKWELL FOREST PRESERVE

SPRING BROOK PHASE III

PH#:

FAX#:

SUBCONSULTANT:

CONSULTANT:

MARK:

DATE:

DESCRIPTION:

PROJECT NO:

Z-023-101

DRAWN BY:

CHECKED BY:

DATE:

August 28, 2024

SCALE:

SHEET TITLE:

DETAILS

SHEET NO:

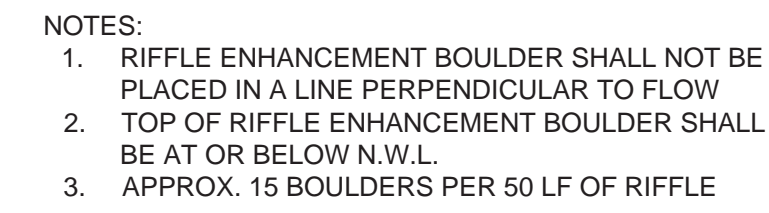
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SHEET

36

OF 48

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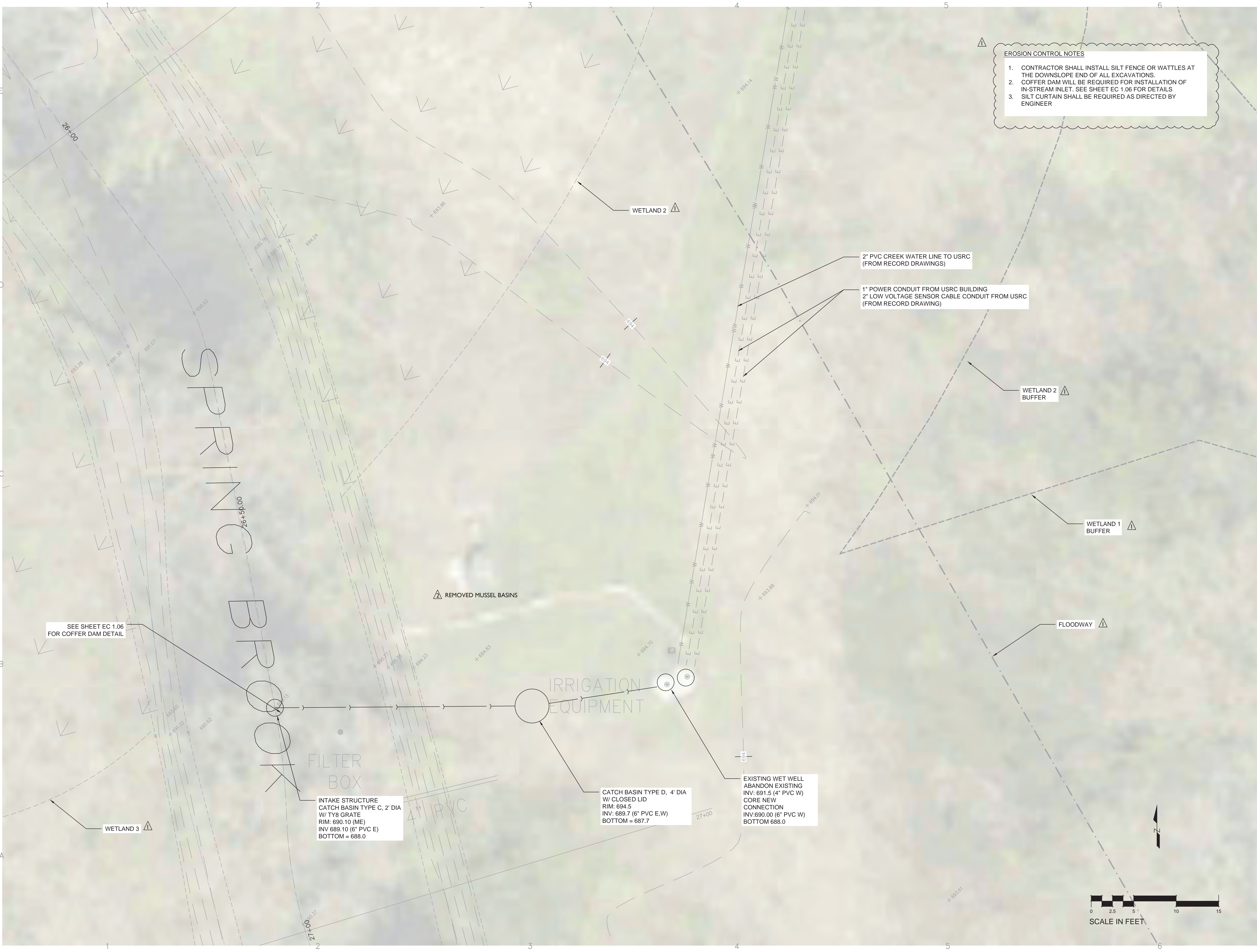
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SHEET NO:

C 1.13

SHEET 37 OF 48



- EROSION CONTROL NOTES**
1. CONTRACTOR SHALL INSTALL SILT FENCE OR WATTLES AT THE DOWNSLOPE END OF ALL EXCAVATIONS.
 2. COFFER DAM WILL BE REQUIRED FOR INSTALLATION OF IN-STREAM INLET. SEE SHEET EC 1.06 FOR DETAILS
 3. SILT CURTAIN SHALL BE REQUIRED AS DIRECTED BY ENGINEER

OWNER: **FOREST PRESERVE DISTRICT
DU PAGE COUNTY**

STREET ADDRESS:
3 S 580 NAPERVILLE ROAD
WHEATON, IL 60189-8761

MAILING ADDRESS:
P.O. BOX 5000
WHEATON, IL 60189-5000

CONTACT NUMBERS:
PH# 630-933-7200
FAX# 630-933-7204

**BLACKWELL FOREST PRESERVE
SPRING BROOK PHASE III**

MARK:	DATE:	DESCRIPTION:

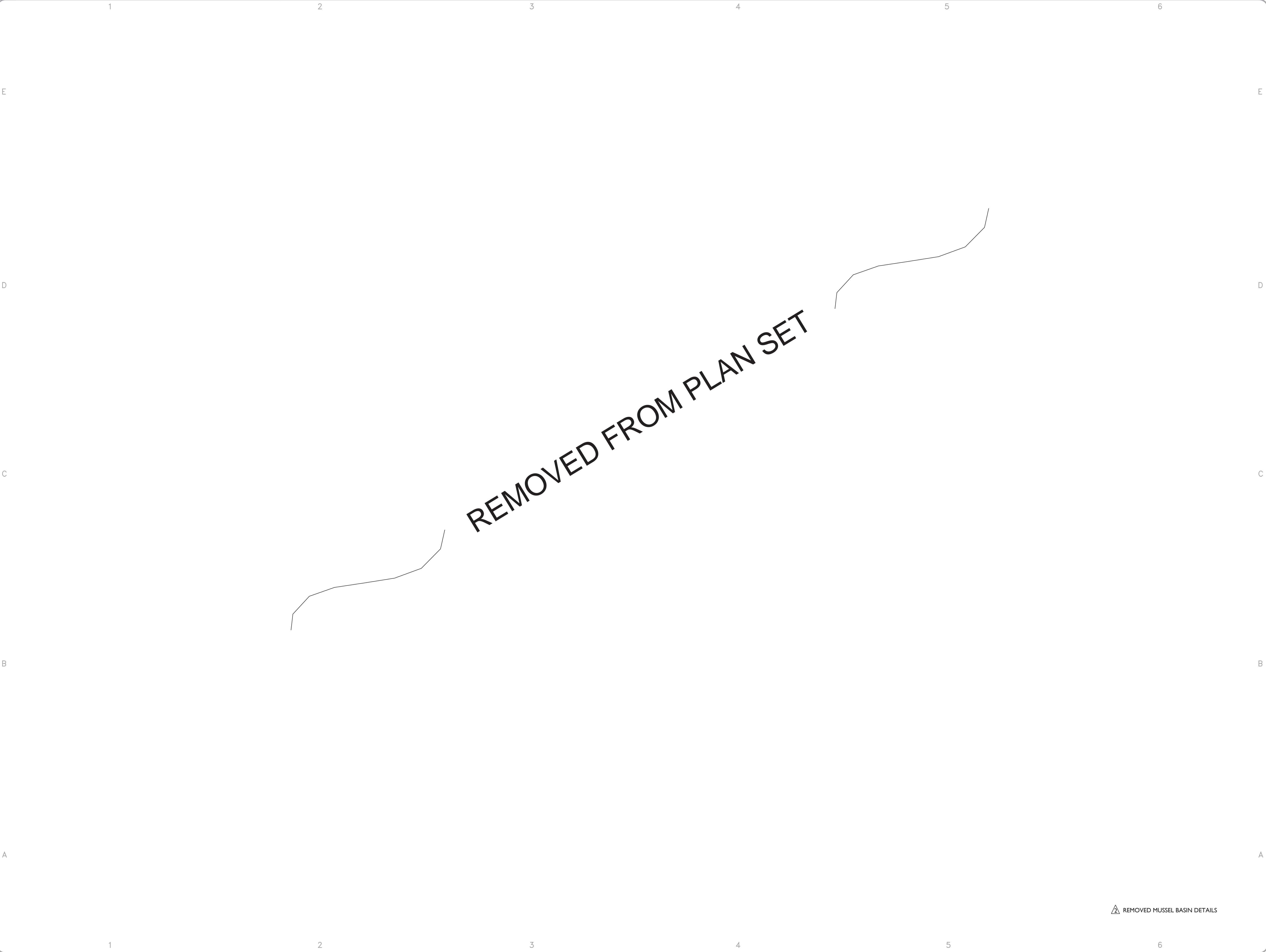
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DRAWN BY:
CHECKED BY:
DATE: August 28, 2024
SCALE:

SHEET TITLE:
DETAILS

SHEET NO:
C 1.14

SHEET 38 OF 48

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OWNER: STREET ADDRESS:
3 S 580 NAPERVILLE ROAD
WHEATON, IL 60189-8761

MAILING ADDRESS:
P.O. BOX 5000
WHEATON, IL 60189-5000

CONTACT NUMBERS:
PH# 630-933-7200
FAX# 630-933-7204

BLACKWELL FOREST PRESERVE
SPRING BROOK PHASE III

CONSULTANT:

PH#:

FAX#

SUBCONSULTANT:

PH#:

FAX#

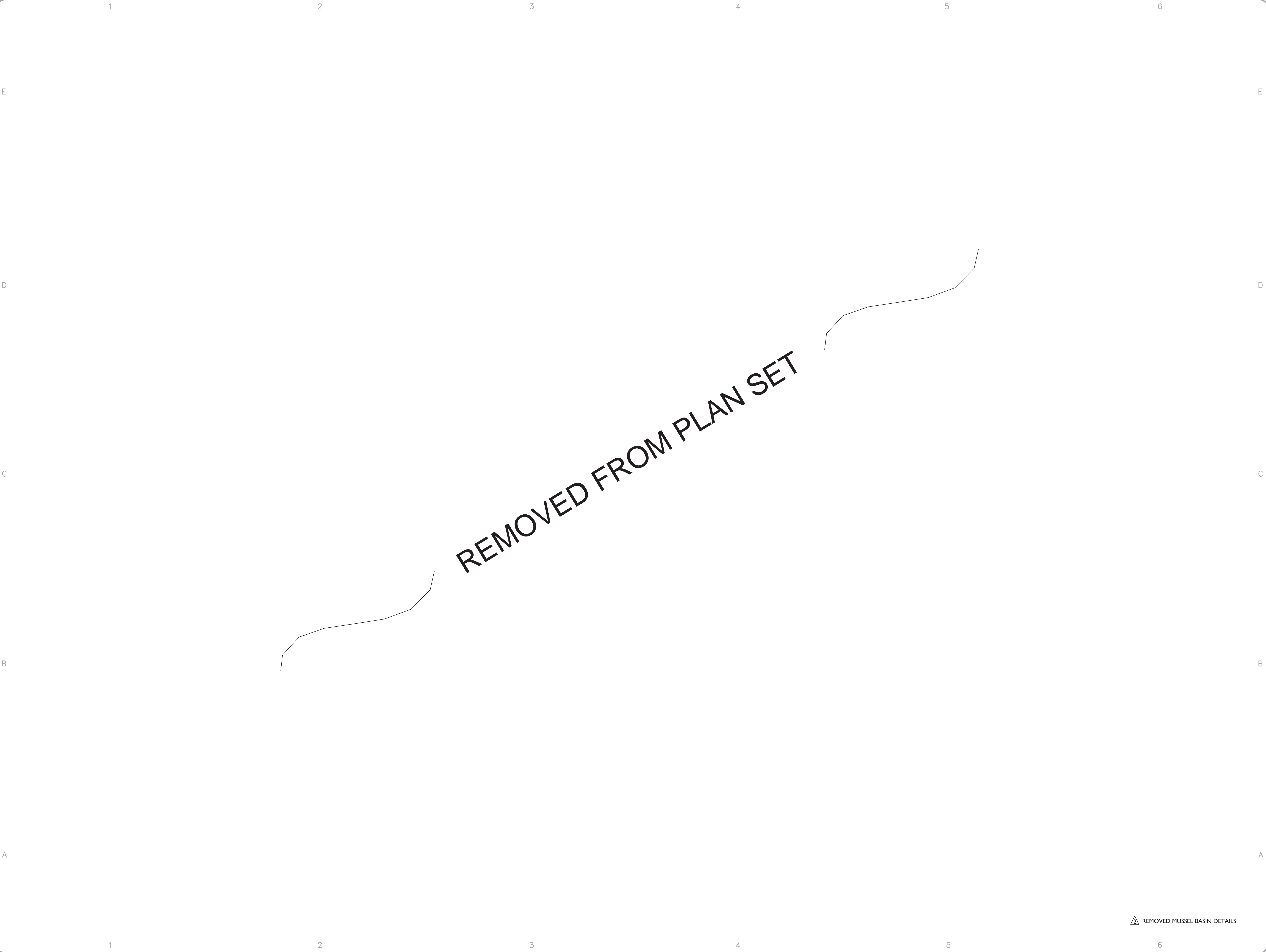
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PROJECT NO:	Z-023-101
DRAWN BY:	
CHECKED BY:	
DATE:	August 28, 2024
SCALE:	

SHEET TITLE:

DETAILS

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OWNER:  STREET ADDRESS:
3 S 580 NAPERVILLE ROAD
WHEATON, IL 60189-8761

MAILING ADDRESS:
P.O. BOX 5000
WHEATON, IL 60189-5000

CONTACT NUMBERS:
PH# 630-933-7200
FAX# 630-933-7204

BLACKWELL FOREST PRESERVE
SPRING BROOK PHASE III

CONSULTANT:

PH#:

FAX#:

SUBCONSULTANT:

PH#:

FAX#:


MARK:	DATE:	DESCRIPTION:

PROJECT NO:	Z-023-101
DRAWN BY:	
CHECKED BY:	
DATE:	August 28, 2024
SCALE:	


SHEET TITLE:

DETAILS


LEGEND



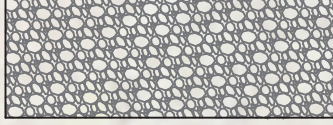
SAVANNA SEED MIX



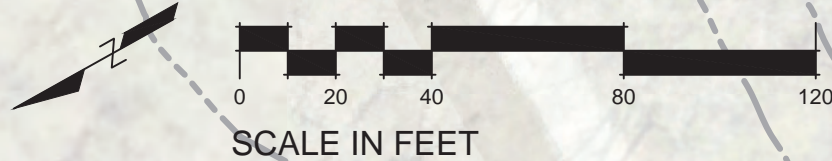
WETLAND SEED MIX



TURF SEED MIX



AGGREGATE RESTORATION



SEE SHEET L 101

WETLAND BUFFER

FLOODPLAIN LIMITS

FLOODWAY LIMITS

FOREST PRESERVE BOUNDARY

TEMPORARY CONSTRUCTION EASEMENT

FLOODWAY LIMITS

FLOODPLAIN LIMITS

WETLAND BUFFER

UPDATED RESTORATION LIMITS

OWNER:

DU PAGE COUNTY

STREET ADDRESS:

3 S 580 NAPERVILLE ROAD
WHEATON, IL 60189-8761

MAILING ADDRESS:

P.O. BOX 5000
WHEATON, IL 60189-5000

CONTACT NUMBERS:

PH# 630-933-7200
FAX# 630-933-7204

BLACKWELL FOREST PRESERVE

SPRING BROOK PHASE III

MARK:	DATE:	DESCRIPTION:

PROJECT NO:

Z-023-101

DRAWN BY:

CHECKED BY:

DATE:

August 28, 2024

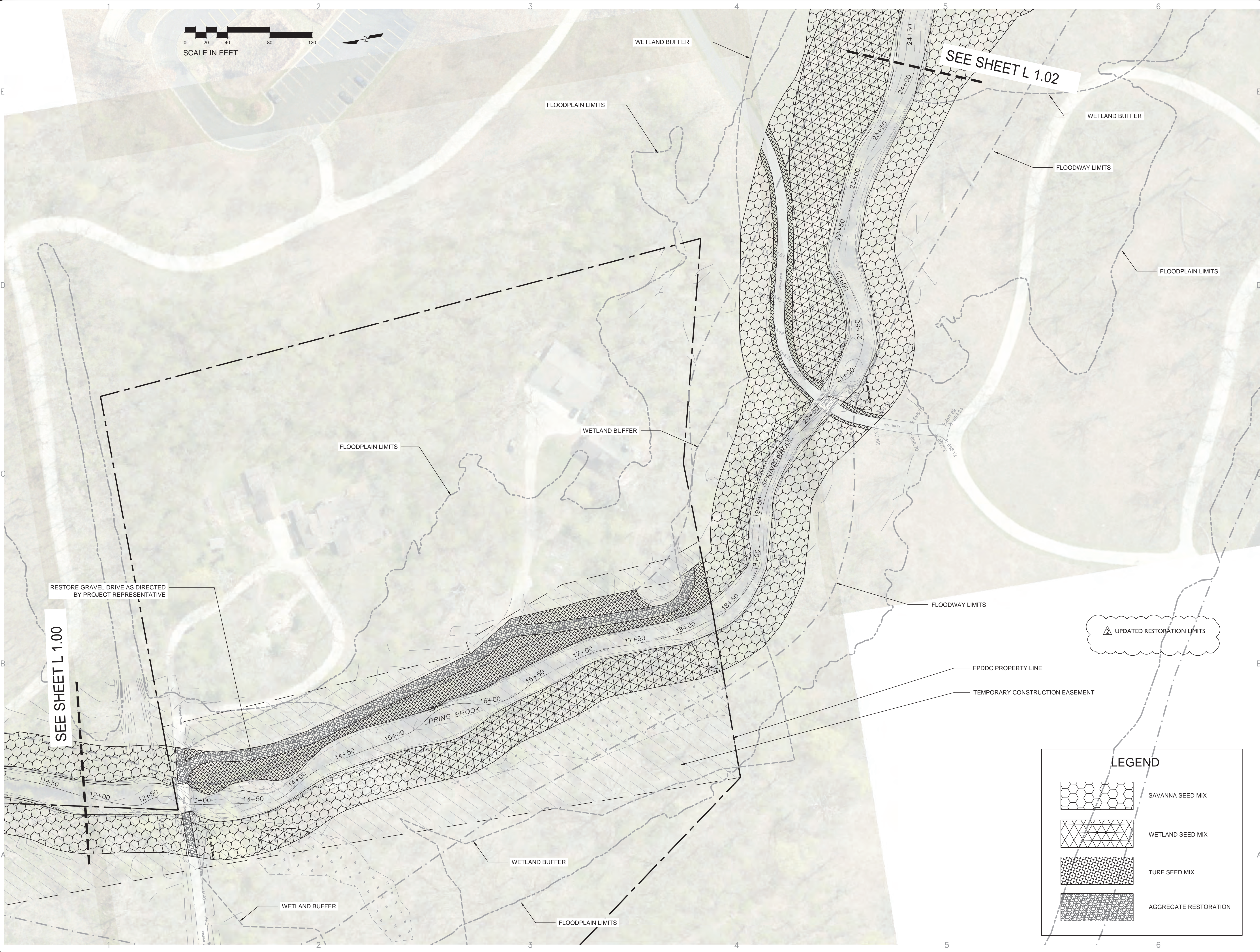
SCALE:

SHEET TITLE:

RESTORATION PLAN

SHEET NO:

L 1.00



OWNER: **FOREST PRESERVE DISTRICT**
DU PAGE COUNTY

STREET ADDRESS:
3 S 580 NAPERVILLE ROAD
WHEATON, IL 60189-8761

MAILING ADDRESS:
P.O. BOX 5000
WHEATON, IL 60189-5000

CONTACT NUMBERS:
PH# 630-933-7200
FAX# 630-933-7204

**BLACKWELL FOREST PRESERVE
SPRING BROOK PHASE III**

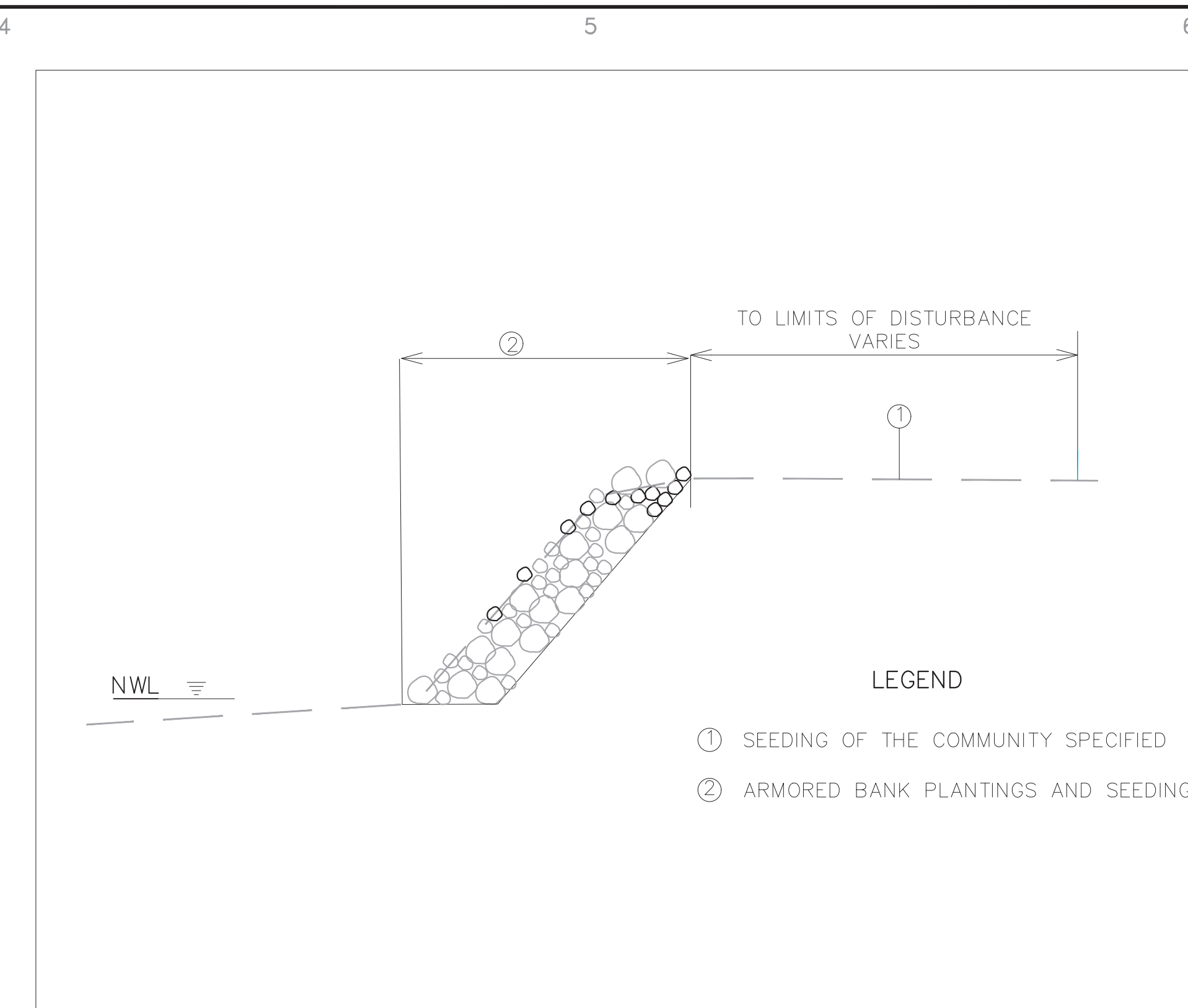
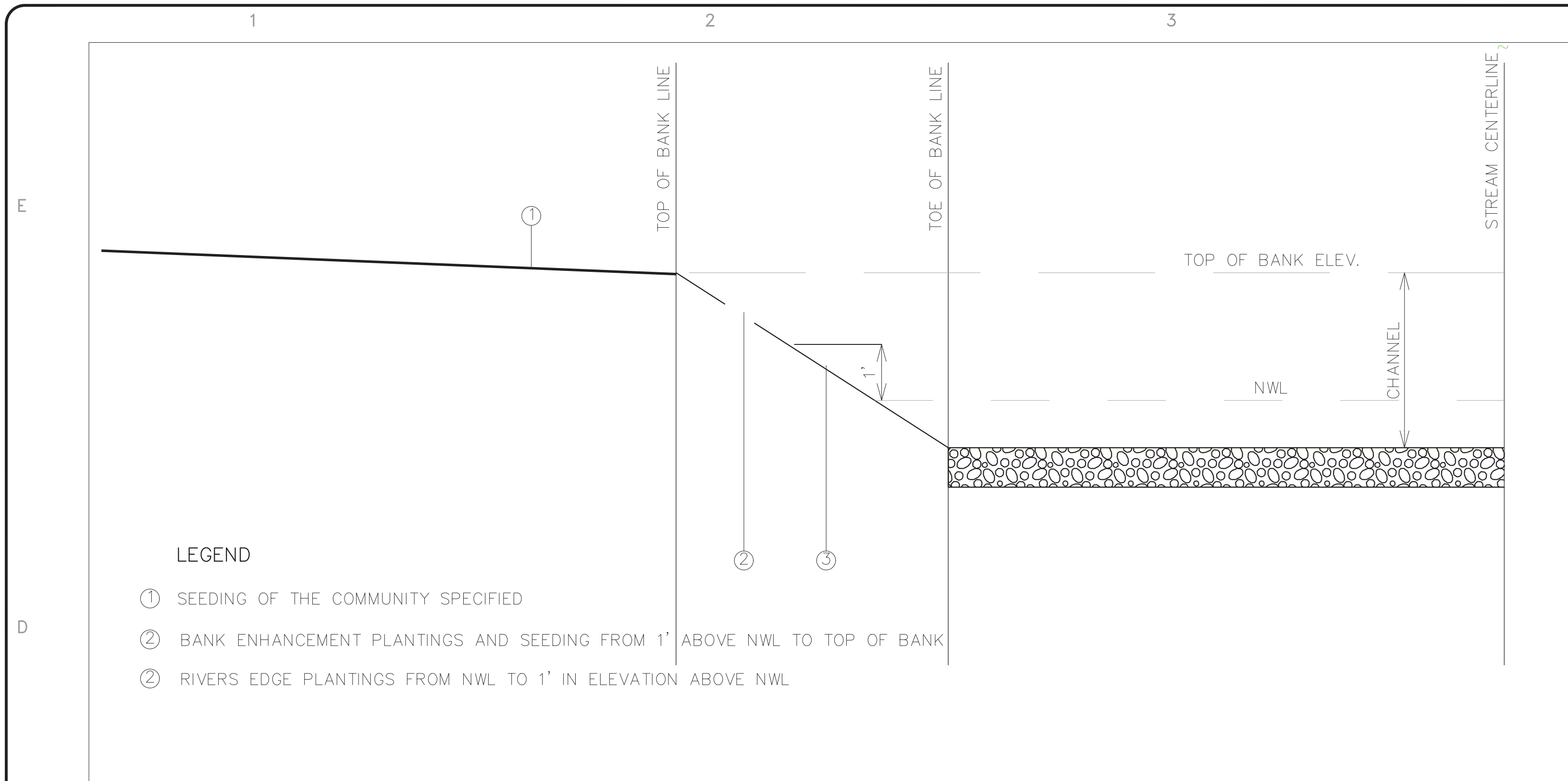
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CHECKED BY:
DATE: August 28, 2024
SCALE:

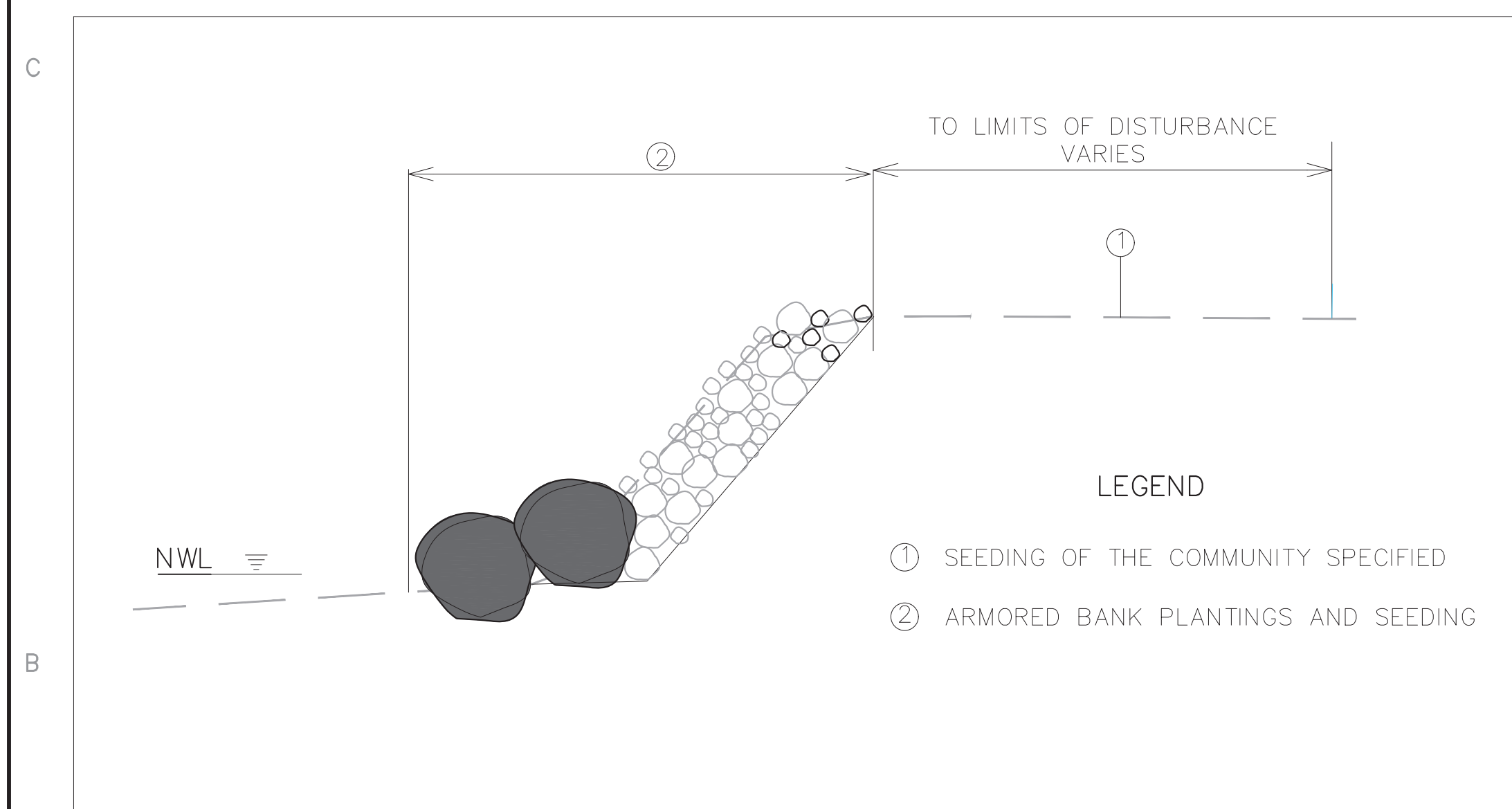
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RESTORATION PLAN

SHEET NO:
L 1.01

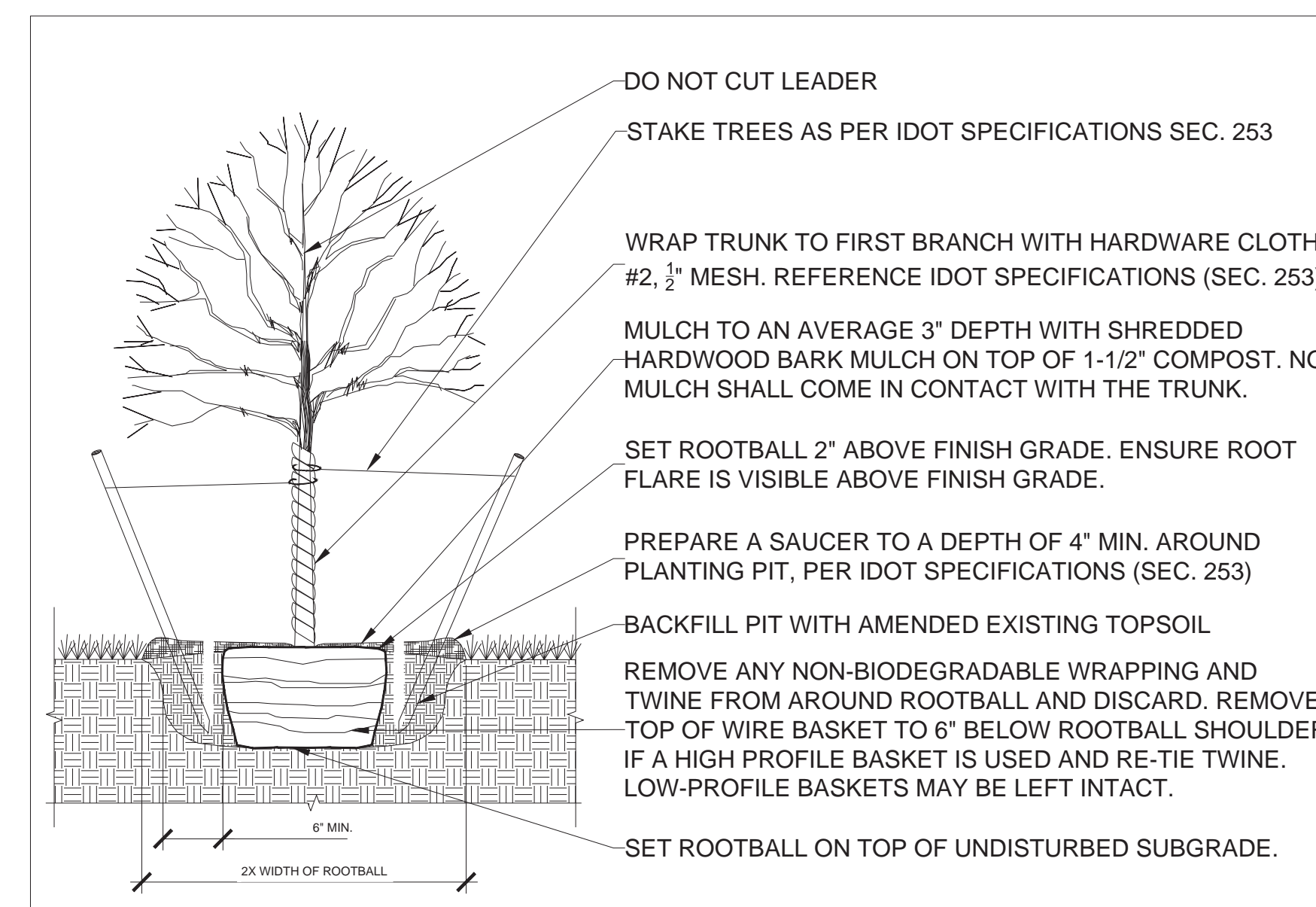
SHEET 42 OF 48



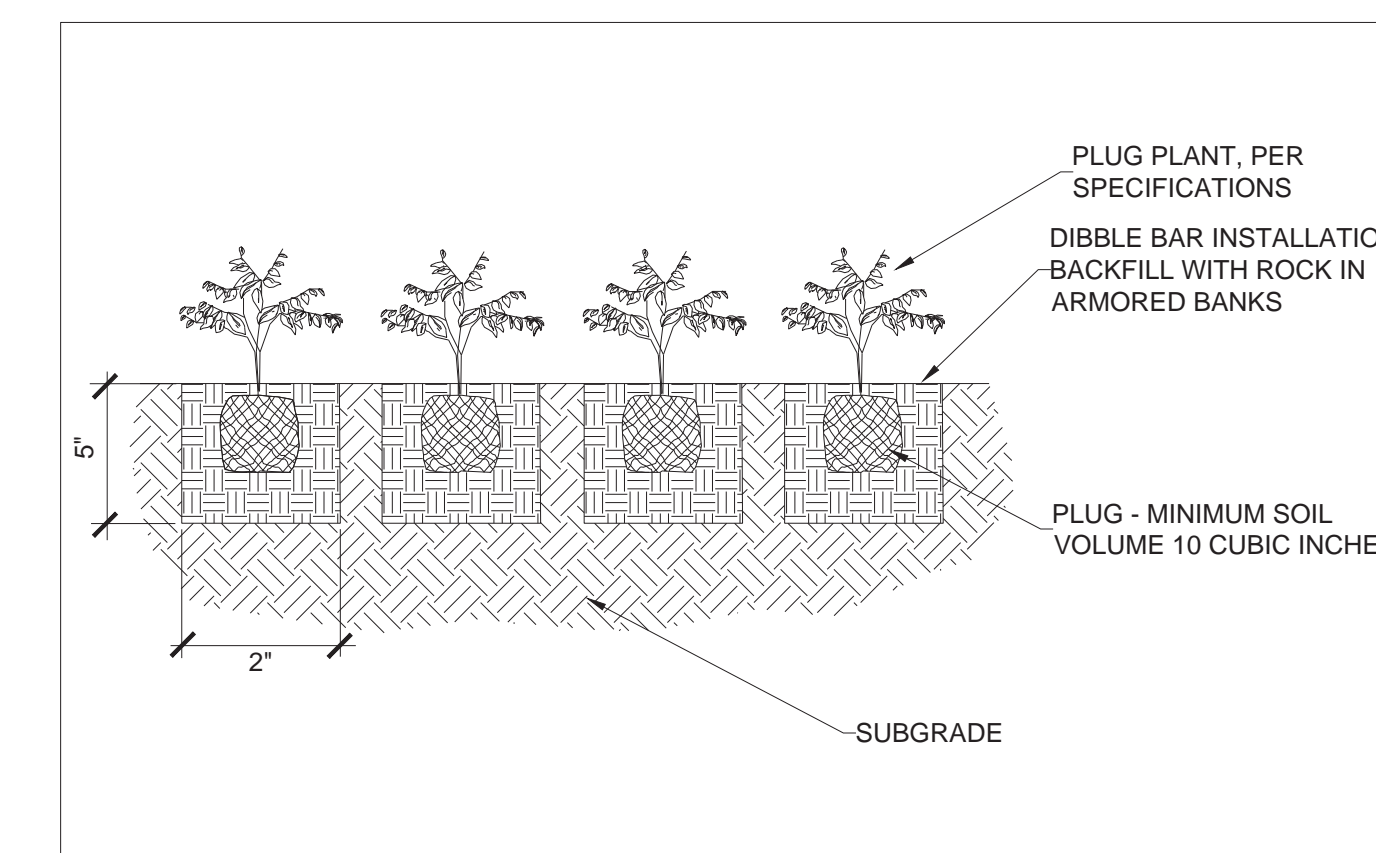
2 RESTORATION FOR BANK STABILIZATION TYPE 2
L1.07 SCALE: N.T.S.




3 L1.07 RESTORATION FOR BANK STABILIZATION TYPE 3 SCALE: N.T.S.



4 TREE PLANTING DETAIL



5 PLUG PLANTING DETAIL

OWNER: 		STREET ADDRESS: 3 S 580 NAPERVILLE ROAD WHEATON, IL 60189-8761 MAILING ADDRESS: P.O. BOX 5000 WHEATON, IL 60189-5000 CONTACT NUMBERS: PH# 630-933-7200 FAX# 630-933-7204	
<h1 style="margin: 0;">BLACKWELL FOREST PRESERVE</h1> <h2 style="margin: 0;">SPRING BROOK PHASE III</h2>		PH#:	
		FAX#:	
		SUBCONSULTANT:	
		PH#:	
		FAX#:	
		CONSULTANT:	

MARK:	DATE:	DESCRIPTION:

PROJECT NO:	Z-023-101
DRAWN BY:	
CHECKED BY:	
DATE:	August 28, 2024
SCALE:	

SHEET TITLE:
<h2>RESTORATION DETAILS</h2>
SHEET NO:
<h3>L1.07</h3>

SHEET 44 OF 48

SAVANNA		
Cover Crop:		
Scientific Name	Common Name	lbs./acre
<i>Avena sativa</i>	Oats	32.0
Seeding:		
Scientific Name	Common Name	lbs./acre
<i>Allium canadense</i>	Wild Onion	0.1
<i>Bouteloua curtipendula</i>	Side Oats	4.0
<i>Carex normalis</i>	Spreading Oval Sedge	0.1
<i>Carex vulpinoidea</i>	Brown Fox Sedge	0.1
<i>Cinna arundinacea</i>	Common Wood Reed	0.5
<i>Elymus canadensis</i>	Canada Wild Rye	3.0
<i>Elymus virginicus</i>	Virginia Wild Rye	3.0
<i>Eutrochium purpureum</i>	Purple Joe Pye Weed	0.1
<i>Festuca subverticillata</i>	Nodding Fescue	0.1
<i>Glyceria striata</i>	Green Fowl Manna Grass	0.1
<i>Hystrix patula</i>	Bottlebrush Grass	1.2
<i>Monarda fistulosa</i>	Wild Bergamot	0.1
<i>Ratibida pinnata</i>	Yellow Coneflower	0.2
<i>Rudbeckia hirta</i>	Black-eyed Susan	0.4
<i>Rudbeckia laciniata</i>	Wild Golden Glow	0.1
<i>Schizachyrium scoparium</i>	Little Bluestem	4.0
<i>Solidago ulmifolia</i>	Elm-leaved Goldenrod	0.1
<i>Symphotrichum lateriflorum</i>	Calico Aster	0.1
<i>Thalictrum dasycarpum</i>	Purple Meadow Rue	0.1
<i>Tradescantia ohioensis</i>	Common Spiderwort	0.2
<i>Zizia aurea</i>	Golden Alexanders	0.1
Total Weight of Seed (lbs)		17.7

SAVANNA SEEDING MIX

SCALE: N.T.S.

ARMORED BANK		
Seeding:		
Scientific Name	Common Name	lbs./acre
<i>Leersia oryzoides</i>	Rice Cut Grass	1.0
Plantings:		
Scientific Name	Common Name	QUANTITY
<i>Acorus americanus</i>	Sweet Flag	500
<i>Carex lacustris</i>	Common Lake Sedge	500
<i>Hibiscus laevis</i>	Halfred-Leaved Rose Mallow	500
<i>Iris virginica shrevei</i>	Blue Flag	500
<i>Scirpus atrovirens</i>	Dark Green Rush	500
<i>Schoenoplectus fluviatilis</i>	River Bulrush	500
<i>Schoenoplectus pungens</i>	Chainmaker's Rush	500
<i>Sparangiumeurycarpum</i>	Common Bur Reed	500
<i>Spartina pectinata</i>	Prairie Cord Grass	500
	TOTAL	4800

NOTE: ARMORED BANK PLANTINGS AND SEED MIX WITHIN TYPE 2 AND TYPE 3 BANK TREATMENTS

ARMORED BANK PLANTINGS AND SEED MIX

SCALE: N.T.S.

TREES & SHRUBS			
TREES			
Scientific Name	Common Name	Quantity	Size
<i>Aesculus glabra</i>	Ohio Buckeye	2	1.5' cal.
<i>Celtis occidentalis</i>	Hackberry	15	1.5' cal.
<i>Ostrya virginiana</i>	Hop Hornbeam	15	5' ht.
<i>Pinus strobus</i>	White Pine	3	5' ht.
<i>Quercus bicolor</i>	Swamp White Oak	25	1.5' cal.
<i>Quercus macrocarpa</i>	Bur Oak	25	1.5' cal.
<i>Salix discolor</i>	Pussy Willow	15	5' ht.
<i>Thuja occidentalis</i>	Eastern White Cedar	5	5' ht.
	Sub Total	105	
SHRUBS			
Scientific Name	Common Name	Quantity	Size
<i>Amorpha fruticosa</i>	Indigo Bush	25	#5
<i>Asimina triloba</i>	Paw Paw	5	#5
<i>Cornus sericea</i>	Red Stick Dogwood	25	#5
<i>Lindera benzoin</i>	Spicebush	25	#5
<i>Ribes americanum</i>	Wild Black Currant	25	#5
<i>Sambucus canadensis</i>	Elderberry	25	#5
<i>Viburnum lentago</i>	Nannyberry	25	#5
	Sub Total	155	
	TOTAL	260	

NOTE: TREE AND SHRUB LOCATIONS TO BE FIELD DIRECTED BY ENGINEER

TREE AND SHRUB LIST

SCALE: N.T.S.

MESIC PRARIE		
Cover Crop:		
Scientific Name	Common Name	Lb. per Acre
<i>Avena sativa</i>	Oats	40.0
Scientific Name	Common Name	Lb. per Acre
<i>Bouteloua curtipendula</i>	Side Oats	5.0
<i>Carex bicknellii</i>	Copper Shouldered Oval Sedge	0.3
<i>Careopsis tripteris</i>	Tall Cereopsis	0.2
<i>Echinacea pallida</i>	Pale Purple Coneflower	0.8
<i>Elymus canadensis</i>	Canada Wild Rye	2.0
<i>Elymus virginicus</i>	Virginia Wild Rye	2.0
<i>Eryngium yuccifolium</i>	Rattlesnake Master	0.3
<i>Helopsis helianthoides</i>	False Sunflower	0.2
<i>Liatriis pycnostachya</i>	Prairie Blazing Star	0.3
<i>Monarda fistulosa</i>	Wild Bergamot	0.2
<i>Parthenium integrifolium</i>	Wild Quinine	0.2
<i>Penstemon digitalis</i>	Foxglove Beard Tongue	0.2
<i>Pycnanthemum virginianum</i>	Common Mountain Mint	0.2
<i>Ratibida pinnata</i>	Yellow Coneflower	0.2
<i>Rudbeckia hirta</i>	Black-eyed Susan	0.4
<i>Rudbeckia subtomentosa</i>	Showy Black-eyed Susan	0.4
<i>Schizachyrium scoparium</i>	Little Bluestem	7.0
<i>Silphium laciniatum</i>	Compass Plant	0.3
<i>Silphium terebinthinaceum</i>	Prairie Dock	0.3
<i>Solidago juncea</i>	Early Goldenrod	0.2
<i>Solidago rigida</i>	Stiff Goldenrod	0.2
<i>Sporobolus heterolepis</i>	Prairie Dropseed	0.3
<i>Symphotrichum laeve</i>	Smooth Blue Aster	0.2
<i>Symphotrichum novae-angliae</i>	New England Aster	0.2
<i>Tradescantia ohioensis</i>	Common Spiderwort	0.2
<i>Veronicastrum virginicum</i>	Culver's Root	0.2
<i>Zizia aurea</i>	Golden Alexanders	0.2
		22.2

STAGING AREA SEED MIX

SCALE: N.T.S.

BANK ENHANCEMENT		
Cover Crop:		
Scientific Name	Common Name	lbs./acre
<i>Avena sativa</i>	Oats	20.0
<i>Agrostis stolonifera</i>	Creeping bentgrass	1.0
Plantings:		
Scientific Name	Common Name	QUANTITY
<i>Carex lacustris</i>	Common Lake Sedge	1000
<i>Carex trichocarpa</i>	Hairy-fruited Sedge	1000
<i>Spartina pectinata</i>	Prairie Cord Grass	2000
TOTAL		4000
Seeding:		
Scientific Name	Common Name	lbs./acre
<i>Carex annectens</i>	Yellow Fruited Sedge	0.1
<i>Carex cristatella</i>	Crested Oval Sedge	0.2
<i>Carex normalis</i>	Normal Sedge	0.1
<i>Carex tetanica</i>	Common Stiff Sedge	0.2
<i>Carex vulpinoidea</i>	Fox Sedge	0.5
<i>Elymus riparus</i>	Riverbank Wild Rye	0.8
<i>Elymus virginicus</i>	Virginia Wild Rye	1.5
<i>Euthania graminifolia</i>	Grass-Leaved Goldenrod	0.2
<i>Gentiana andrewsii</i>	Bottle Gentian	0.1
<i>Helenium autumnale</i>	Sneezeweed	0.2
<i>Juncus dudleyi</i>	Dudley's rush	0.4
<i>Juncus torreyi</i>	Torrey's Rush	0.1
<i>Leersia oryzoides</i>	Rice Cut Grass	1.5
<i>Monarda arvensis</i>	Wild Mint	0.1
<i>Pycnanthemum virginianum</i>	Common Mountain Mint	0.2
<i>Rudbeckia laciniata</i>	Wild Golden Glow	0.1
<i>Solidago gigantea</i>	Late Goldenrod	0.1
<i>Spartina pectinata</i>	Prairie Cord Grass	0.5
<i>Symphoricarpon novae-angliae</i>	New England aster	0.1
<i>Thalictrum dasycarpum</i>	Purple Meadow Rue	0.1
<i>Verbena hastata</i>	Blue Vervain	0.1
<i>Verbesina alternifolia</i>	Wingstem	0.2
<i>Vernonia fasciculata</i>	Common Ironweed	0.1
Total Weight of Seed (lbs)		7.5

NOTE: BANK ENHANCEMENT PLANTINGS AND SEED MIX WITHIN TYPE 1 BANK TREATMENTS

BANK ENHANCEMENT PLANTINGS AND SEED MIX

SCALE: N.T.S.

RIVER EDGE		
Plantings:		
Scientific Name	Common Name	QUANTITY
<i>Hibiscus laevis</i>	Halbred-Leaved Rose Mallow	500
<i>Iris virginica shrevei</i>	Blue Flag	500
<i>Schoenoplectus pungens</i>	Chairmaker's Rush	1000
	TOTAL	2000

NOTE: RIVERS EDGE PLANTINGS AND SEED MIX
TO BE FIELD DIRECTED BY ENGINEER

RIVERS EDGE PLANTINGS

SCALE: N.T.S.

WETLAND				
Cover Crop:				
C- Value	Ind. Status	Scientific Name	Common Name	Lb. per Acre
10	FACW	<i>Agrostis stolonifera</i>	Creeping bentgrass	0.5
0	UPL	<i>Avena sativa</i>	Oats	40.0

Seeding:				
C-Value	Ind. Status	Scientific Name	Common Name	Lb. per Acre
4	OBL	<i>Asclepias incarnata</i>	Swamp milkweed	0.2
5	OBL	<i>Bidens cernua</i>	Nodding Bur Marigold	0.2
8	UPL	<i>Bouteloua curtipendula</i>	Side-Oats Grama	0.5
3	OBL	<i>Calamagrostis canadensis</i>	Blue Joint Grass	1.0
4	FAC	<i>Carex brevior</i>	Plains Oval Sedge	0.2
5	OBL	<i>Carex pellita</i>	Broad-Leaved Woolly Sedge	0.1
4	FACW	<i>Carex cristatella</i>	Crested Oval Sedge	0.3
5	OBL	<i>Carex stricta</i>	Tussock Sedge	0.2
2	FACW	<i>Carex vulpinoidea</i>	Fox Sedge	0.5
5	FAC	<i>Coreopsis tripteris</i>	Tall Coreopsis	0.1
4	FACU	<i>Elymus canadensis</i>	Canada Wild Rye	0.5
5	FACW	<i>Elymus riparius</i>	Riverbank Wild Rye	1.0
4	FACW	<i>Elymus virginicus</i>	Virginia Wild Rye	2.0
9	FAC	<i>Eryngium yuccifolium</i>	Rattlesnake Master	0.1
4	OBL	<i>Eupatorium perfoliatum</i>	Common Boneset	0.2
4	OBL	<i>Eutrochium maculatum</i>	Spotted Joe Pye Weed	0.1
4	OBL	<i>Glyceria striata</i>	Fowl Manna Grass	0.3
5	FACW	<i>Helenium autumnale</i>	Sneezeweed	0.3
5	OBL	<i>Iris virginica shrevei</i>	Blue Flag	0.5
4	FACW	<i>Juncus dudleyi</i>	Dudley's rush	0.5
4	OBL	<i>Leersia oryzoides</i>	Rice Cut Grass	0.5
4	FACU	<i>Lespedeza capitata</i>	Round-Headed Bush Clover	0.1
8	FAC	<i>Liatris pycnostachya</i>	Prairie Blazing Star	0.1
7	OBL	<i>Lobelia cardinalis</i>	Cardinal Flower	0.2
6	OBL	<i>Lobelia siphilitica</i>	Great Blue Lobelia	0.3
5	FACW	<i>Mentha arvensis</i>	Wild Mint	0.2
6	OBL	<i>Mimulus ringens</i>	Monkey Flower	0.1
4	FACU	<i>Monarda fistulosa</i>	Wild Bergamot	0.1
4	FAC	<i>Penstemon digitalis</i>	Foxglove Beard Tongue	0.2
5	FACW	<i>Pycnanthemum virginianum</i>	Common Mountain Mint	0.2
1	FACU	<i>Rudbeckia hirta</i>	Black-Eyed Susan	0.3
5	FACW	<i>Rudbeckia laciniata</i>	Wild Golden Glow	0.1
5	FACU	<i>Schizachyrium scoparium</i>	Little Bluestem	0.5
4	OBL	<i>Scirpus atrovirens</i>	Dark Green Rush	0.5
4	FACW	<i>Solidago gigantea</i>	Late Goldenrod	0.2
6	OBL	<i>Sparganium eurycarpum</i>	Common Bur Reed	1.0
4	FACW	<i>Spartina pectinata</i>	Prairie Cord Grass	0.5
10	FACU	<i>Sporobolus heterolepis</i>	Prairie Dropseed	0.5
7	FAC	<i>Symphytotrichum lanceolatum</i>	Panicle Aster	0.1
3	FACW	<i>Symphytotrichum novae-angliae</i>	New England aster	0.2
4	OBL	<i>Symphytotrichum punctum</i>	Bristly Aster	0.1
2	FACU	<i>Tradescantia chiensis</i>	Common Spiderwort	0.3
4	FACW	<i>Verbena hastata</i>	Blue Vervain	0.1
5	FACW	<i>Verbesina alternifolia</i>	Wingstem	0.3
5	FACW	<i>Vernonia fasciculata</i>	Common Ironweed	0.1
7	FAC	<i>Veronicastrum virginicum</i>	Culver's root	0.1
7	FAC	<i>Zizia aurea</i>	Golden Alexander	0.2
Total Weight of Seeds (lbs)				15.8

Plantings:				
C- Value	Ind. Status	Scientific Name	Common Name	QUANTITY
6	OBL	<i>Carex lacustris</i>	Common Lake Sedge	500
7	OBL	<i>Carex trichocarpa</i>	Hairy-fruited Sedge	500
TOTAL				1000

WETLAND PLANTINGS AND SEED MIX

SCALE: N.T.S.



OWNER:

STREET ADDRESS:

3 S 580 NAPERVILLE ROAD
WHEATON, IL 60189-8761

MAILING ADDRESS:

P.O. BOX 5000
WHEATON, IL 60189-5000

CONTACT NUMBERS:

PH# 630-933-7200
FAX# 630-933-7204

BLACKWELL FOREST PRESERVE

SPRING BROOK PHASE III

[illegible]

PROJECT NO:	Z-023-101
DRAWN BY:	
CHECKED BY:	
DATE:	August 28, 2024
SCALE:	

SHEET TITLE:

RESTORATION DETAILS

SHEET NO:

L1.08

SHEET 45 OF 48

BENCHMARK

See Civil Plans for benchmark information.

EXISTING STRUCTURE

Built in year unknown, the existing structure consists of a 16'x16'x6' cast-in-place concrete box structure with a 16' long, 6'x4' corrugated metal pipe arch conveying Spring Brook Creek.

The existing trail to be closed during construction and traffic detoured.

Salvage exist. wrought iron handrail and deliver to Owner.

WATERWAY INFORMATION

Drainage Area = 7.1 sq mi								
Flood	Freq. Yr.	Q C.F.S.	Opening Ft ²		Nat. H.W.E.	Head - Ft.		Headwater El.
			Exist.	Prop.		Exist.	Prop.	
Minimum	2	311	16.5	42.0	694.6	0	0.6	694.6
Design	10	549	16.6	49.6	696.6	0	0.2	696.6

10-year Velocity Through Existing Structure = 1.3 fps
10-year Velocity Through Proposed Structure = 1.9 fps

DESIGN SCOUR ELEVATION TABLE

Event / Limit State	Design Scour Elevations (ft.)	
	North Footing	South Footing
Q2	686.90	687.60
Q10	685.50	685.10
Design	685.60	685.60

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

2009 AASHTO LRFD Guide Specifications for the Design of Pedestrian Bridges with 2015 Interims

DESIGN STRESSES

FIELD UNITS

f'_c = 3,500 psi
 f_y = 60,000 psi (Reinforcement)

PRECAST UNITS

f'_c = 5,000 psi
 f_y = 60,000 psi (Reinforcement)
 f_y = 65,000 psi (WWF)

LOADING H10 & PEDESTRIAN

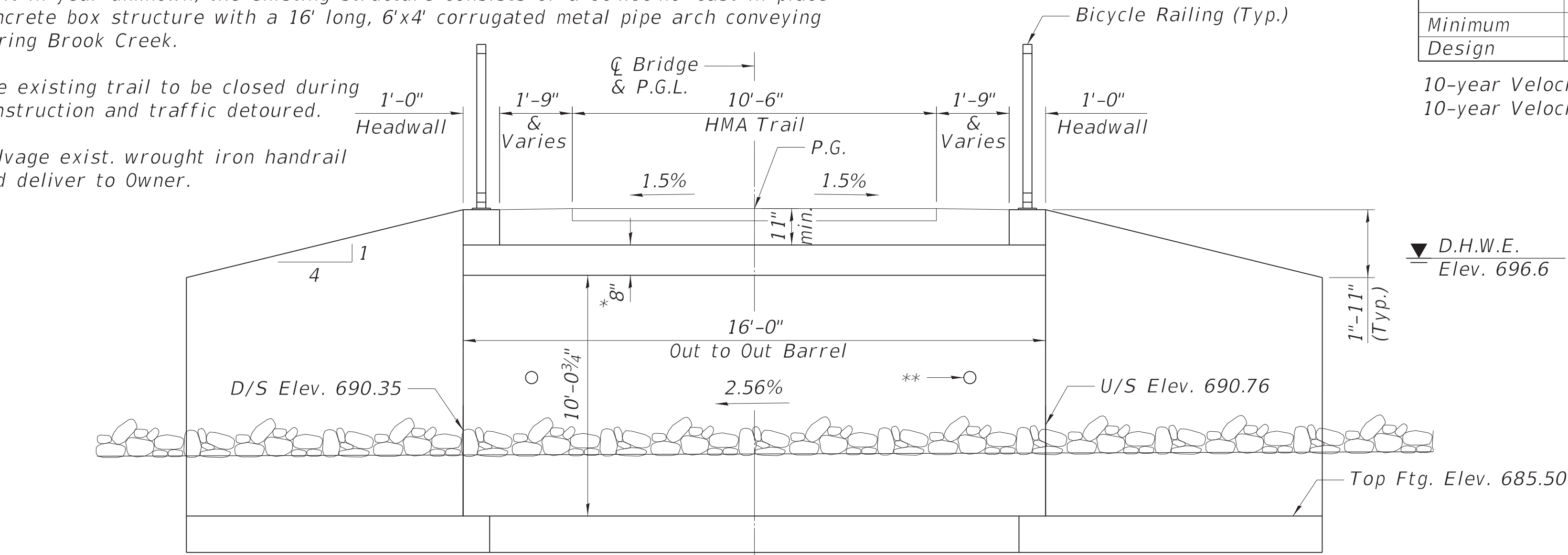
Design Vehicle: H10 (20,000 lbs.)
Pedestrian: 90 psf

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.076g
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.160g
Soil Site Class = D

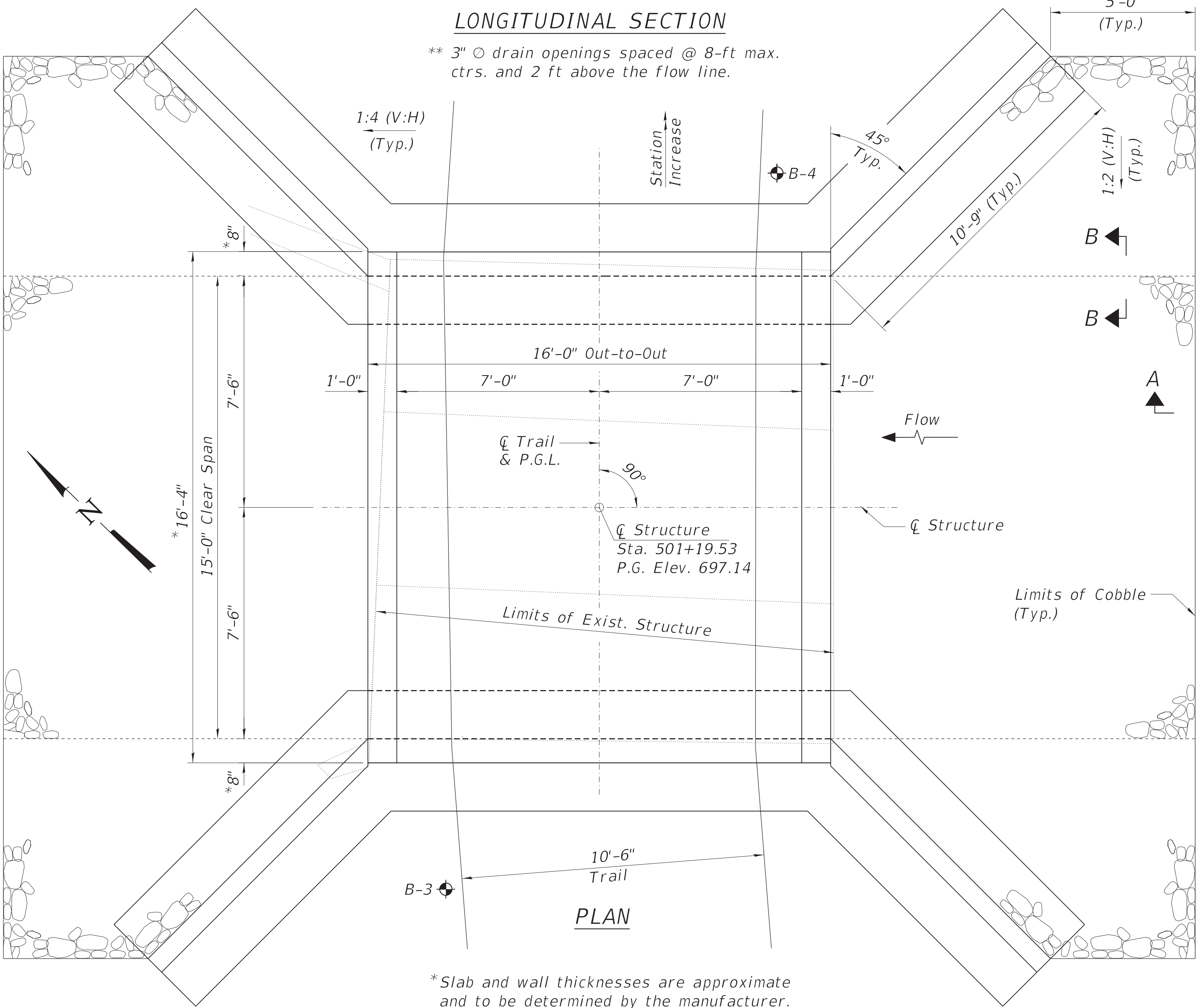
INDEX OF SHEETS

1. General Plan and Elevation
2. General Data
3. Bicycle Railing
4. Soil Boring Logs

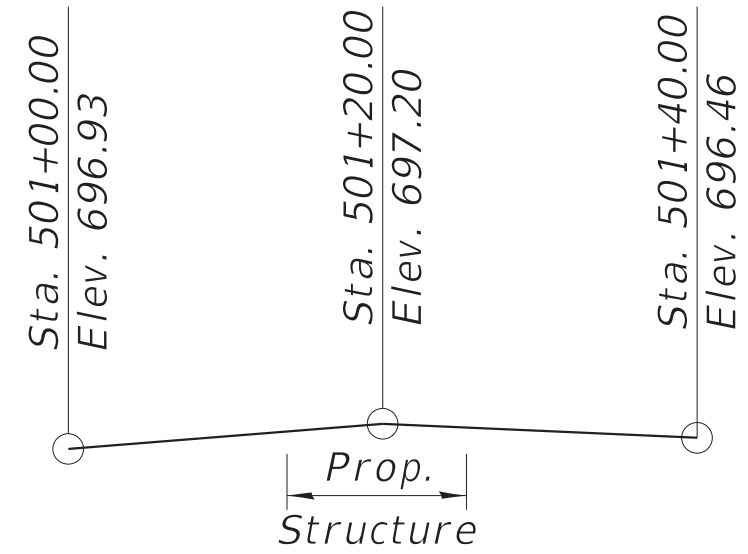


LONGITUDINAL SECTION

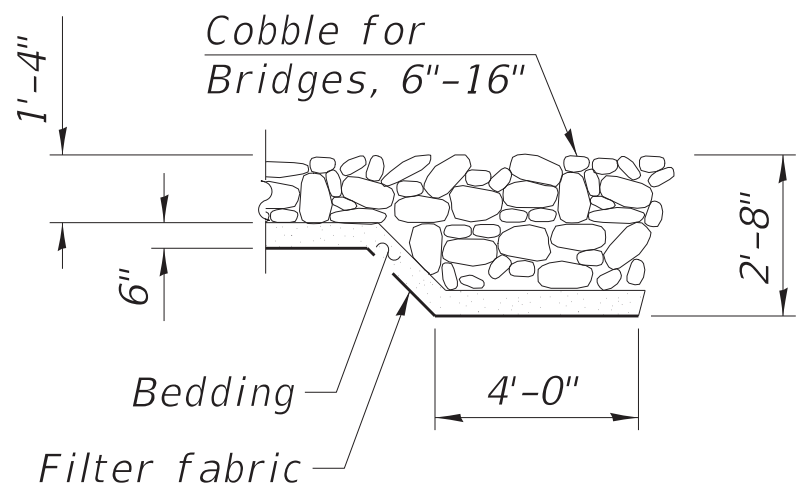
** 3" \varnothing drain openings spaced @ 8-ft max. ctrs. and 2 ft above the flow line.



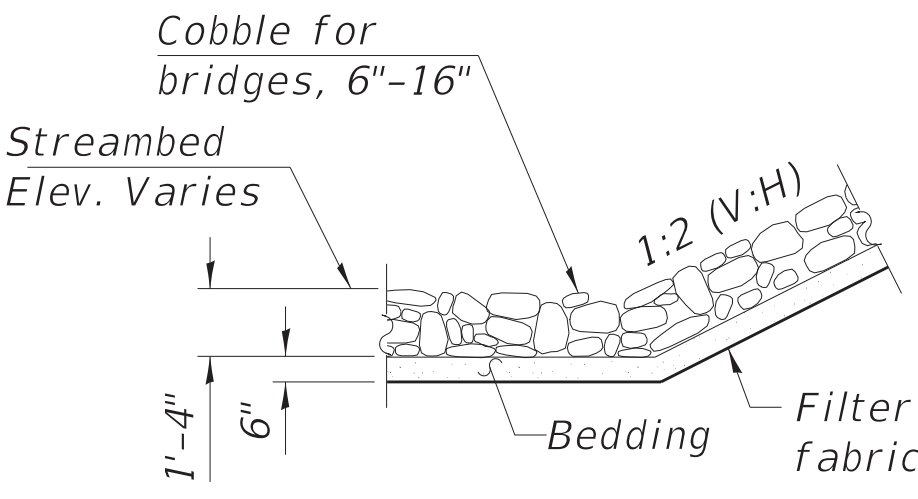
*Slab and wall thicknesses are approximate and to be determined by the manufacturer.



EXIST. PROFILE GRADE
(Along \varnothing Path)



SECTION A-A



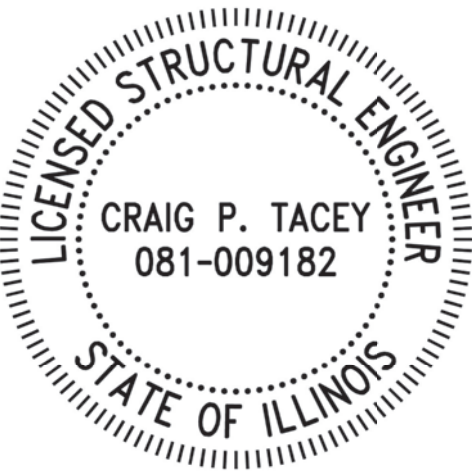
SECTION B-B

LEGEND

\bullet Soil Boring Location

Note:
Boring locations are approximate.

GENERAL PLAN & ELEVATION
TRAIL BRIDGE OVER SPRING BROOK CREEK
DUPAGE COUNTY
STA. 501+19.53



Signed: *Craig Tacey*

Date: 02/24/2025
License Expires: 11/30/2026
Apply to Sheets with Company Logo Only:
Drawing No. S1-S4

TITLE
SPRING BROOK No. 1
CREEK & WETLAND
RESTORATION - PHASE 3
GENERAL PLAN
AND ELEVATION

NO.	DATE	NATURE OF REVISION
1		
2		
3		
4		
5		
6		
7		
8		

CLIENT :
FOREST PRESERVE DISTRICT
OF DUPAGE COUNTY
3S580 NAPERVILLE ROAD
WHEATON, IL 60189
(630) 933-7200

WBKENGINEERING LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755



PROJECT NO. 18-0181
DATE: 02/24/25
SHEET 1 OF 4
DRAWING NO.
S1

GENERAL NOTES

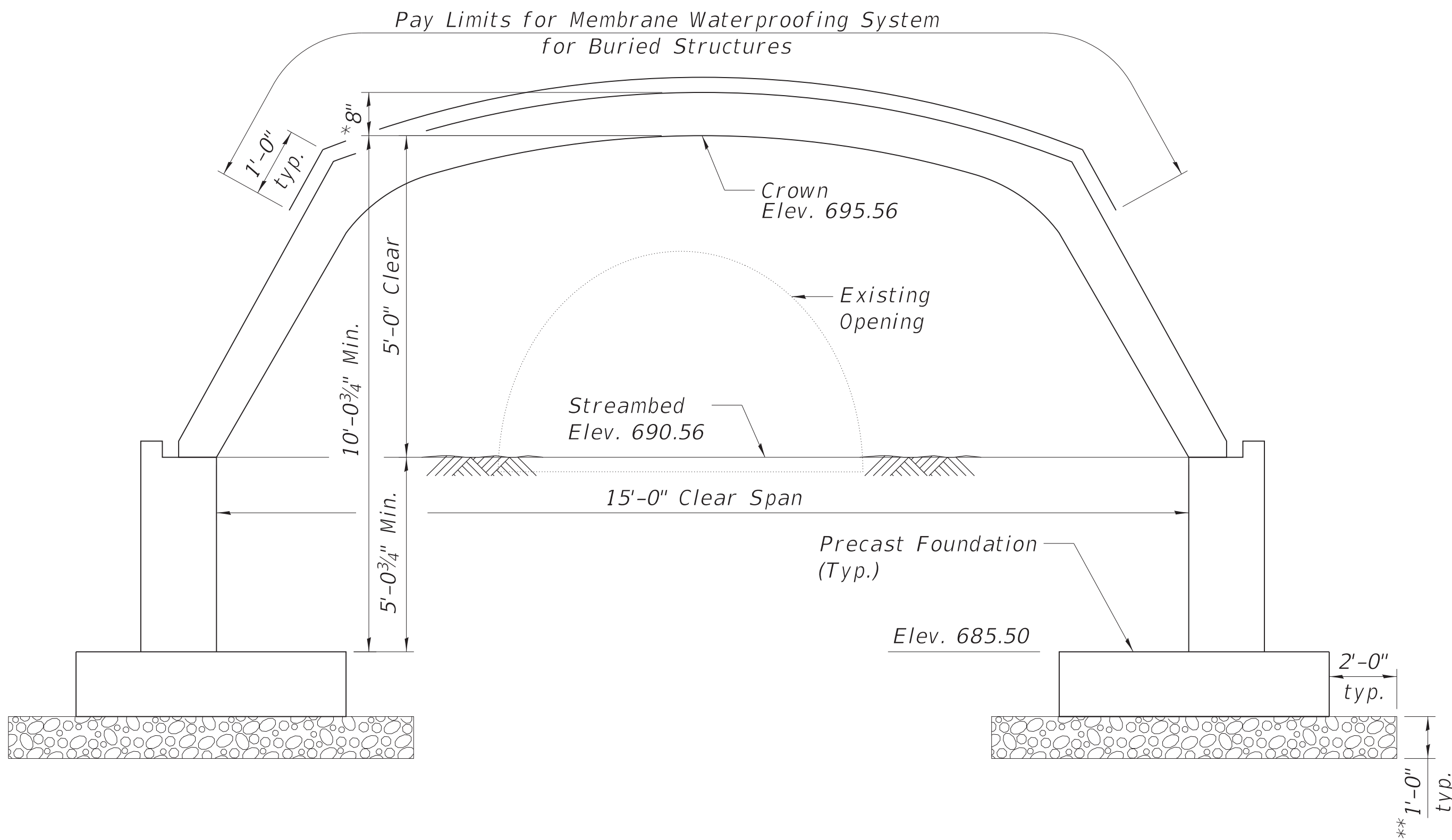
1. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
2. See Civil Plans for trail restoration and eroson control details.
3. Allowable Factored soil bearing preasure is 4,000 psf.
4. Per the structure geotechnical report dated December 6, 2018, the granular materials at the footing bearing elevation are considered suitable to construct the structure. However, depending on water levels as well as dewatering methods used by the Contractor, the bottom of excavation may become unstable at the time of construction and therefore a working platform may be needed. The Field Engineer should make the determination that a working platform is needed during excavation based on the field conditions. If a 1-foot working platform is required, it shall be paid for as Rockfill in accordance with the Special Provisions.
5. Backfill shall be in accordance with manufacturer's requirements and is to be paid for as Granular Backfill for Structures.
6. The structure shall be manufactured by Contech Engineered Solutions, LLC. meeting the requirements of the Contech O-Series "0115" with precast foundations or approved equivalent.
7. In accordance with the special provision for "Three-Sided Precast Concrete Structures," the Contractor shall submit complete design and construction documents to the Engineer for review and approval prior to starting construction. The submittals shall include all calculations, shop drawings, working drawings, etc. necessary to successfully construct the structure. All documents shall be prepared and sealed by Illinois Licensed Structural Engineer(s).

8. Minimum fill height is 0.91 ft.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Cobble for Bridges, 6"-16"	Sq. Yd.	107
Filter Fabric	Sq. Yd.	107
Removal of Existing Structures	Each	1
Structure Excavation	Cu. Yd.	360
Granular Backfill for Structures	Cu. Yd.	382
Membrane Waterproofing System for Buried Structures	Sq. Yd.	30
Three-Sided Precast Concrete Structures (Special) 15 Ft.	Foot	16
Bicycle Railing	Foot	32
Rockfill	Cu. Yd.	26
*** Form Liner Textured Surface	Sq. Ft.	132
*** Staining Concrete Structures	Sq. Ft.	132

*** To be coordinated with the FPDDC.



SECTION THRU BARREL

(At Right Angles to CL Structure)

* Slab and wall thickness are approximate and to be determined by the manufacturer.

** Working Platform of Coarse Aggregate (If Necessary. See Note 4)

CLIENT :

FOREST PRESERVE DISTRICT
OF DUPAGE COUNTY
3S580 NAPERVILLE ROAD
WHEATON, IL 60189
(630) 933-7200

WBKengineering

WBKENGINEERING LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

PROJECT NO. 18-0181

DATE : 02/24/25

SHEET 2 OF 4

DRAWING NO.
S2

TITLE

SPRING BROOK No. 1
CREEK & WETLAND
RESTORATION - PHASE 3

GENERAL DATA

1

2

3

4

5

6

7

8

NO.

DATE

NATURE OF REVISION

DSGN.

JMM

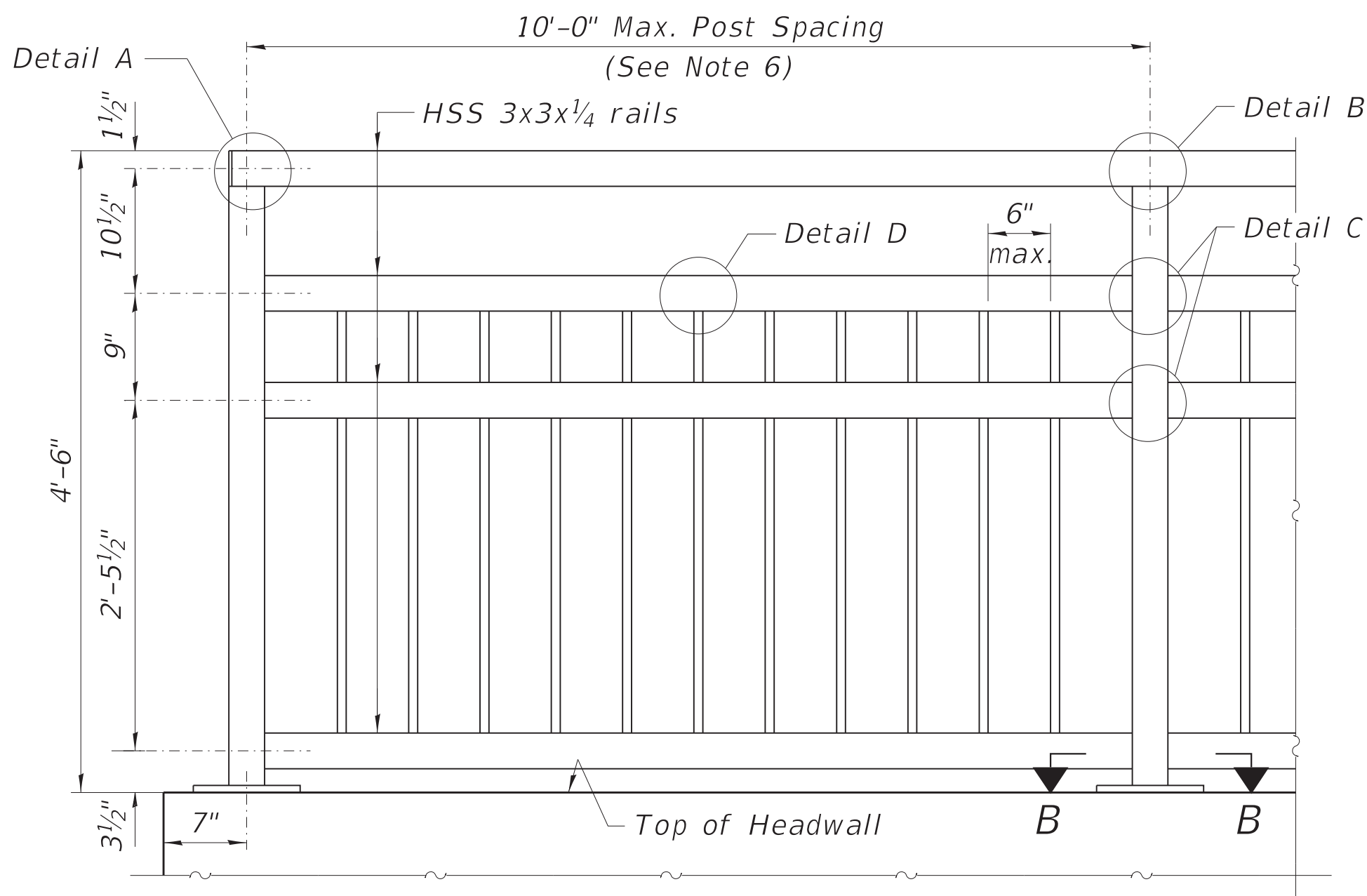
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JMM

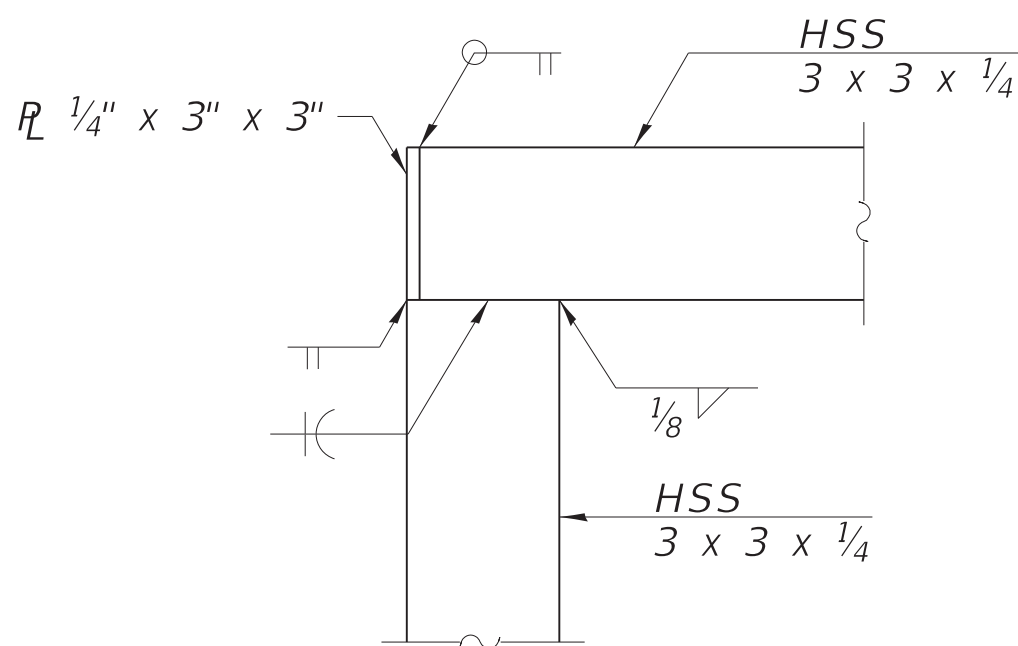
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CPT

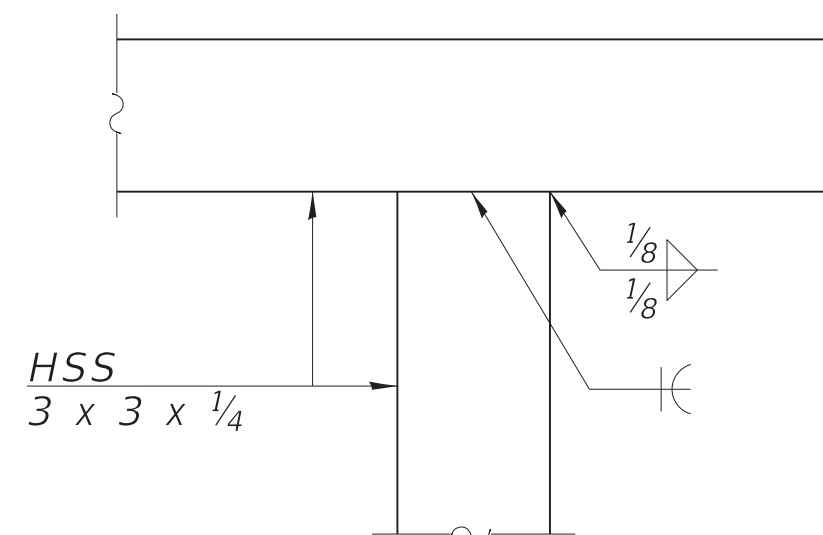
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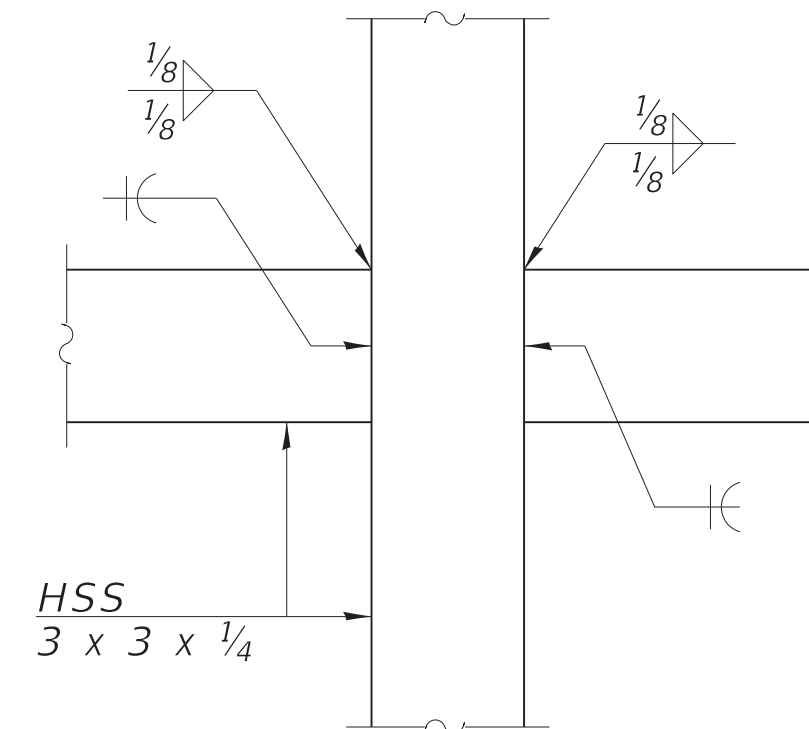
**BICYCLE RAILING
ELEVATION**



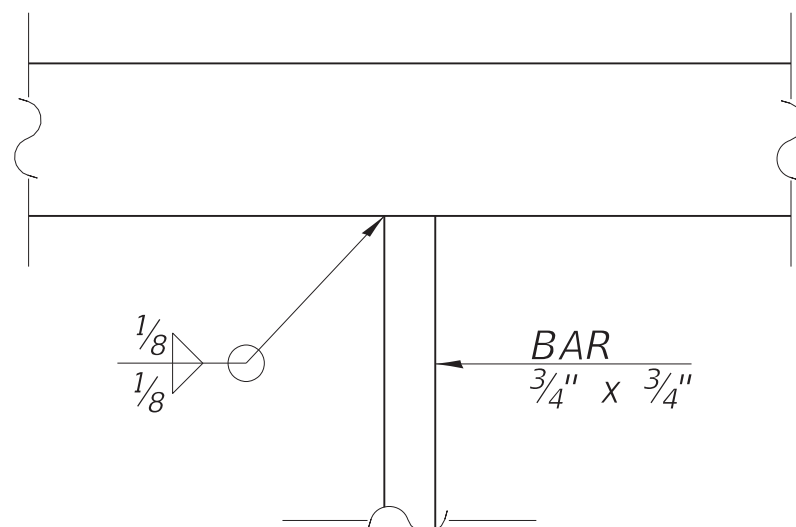
DETAIL A



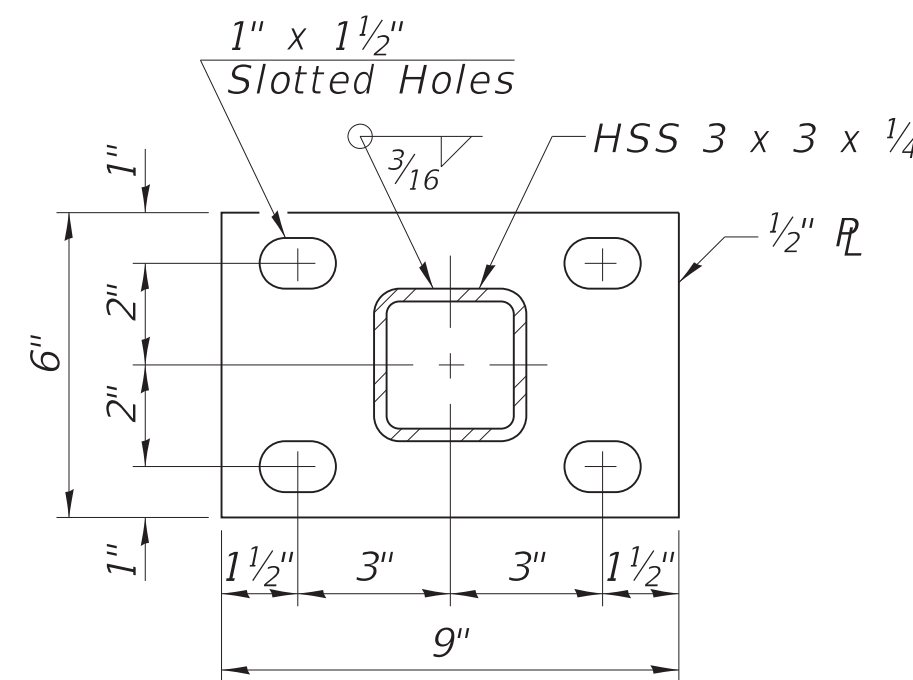
DETAIL B



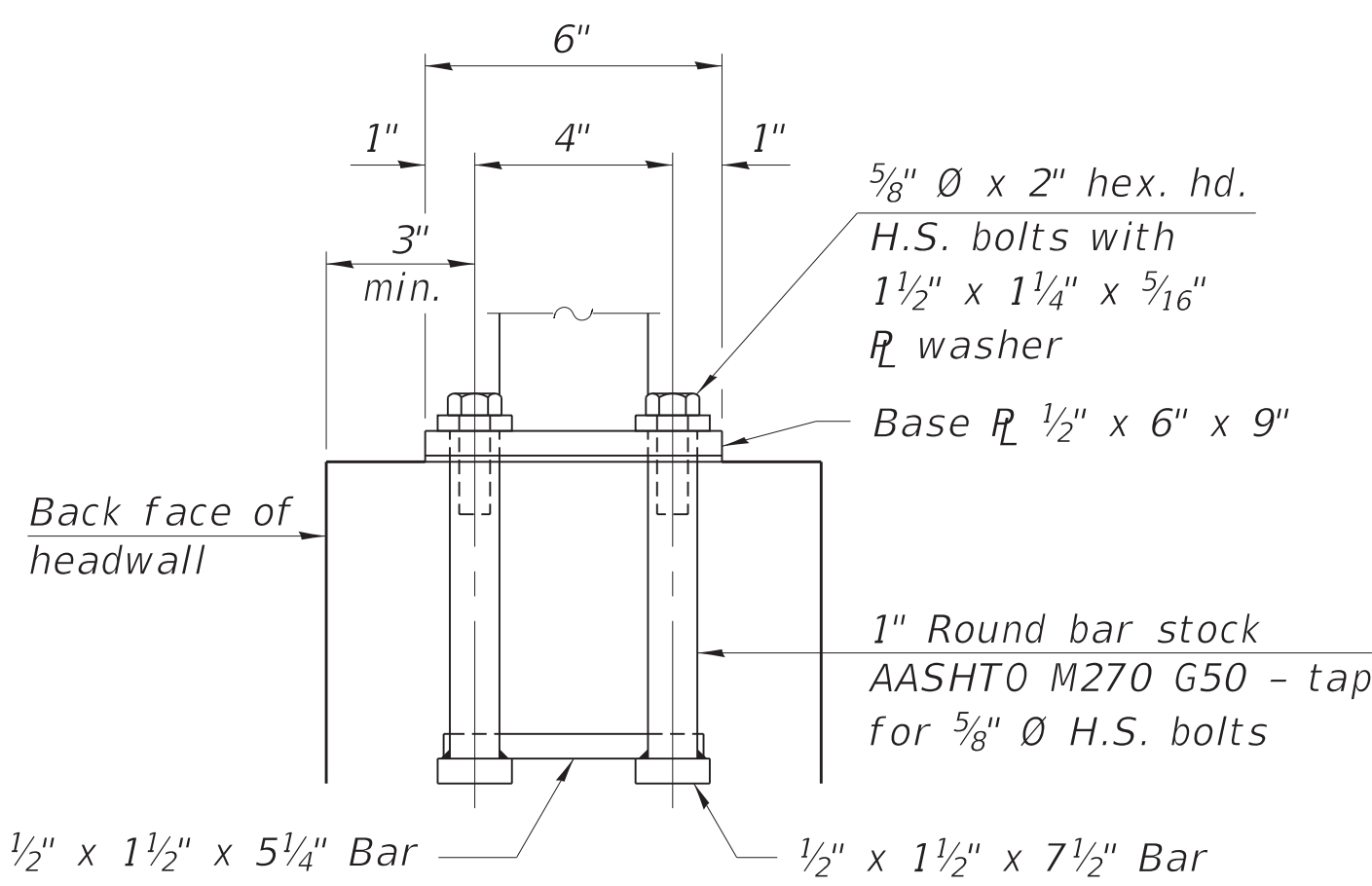
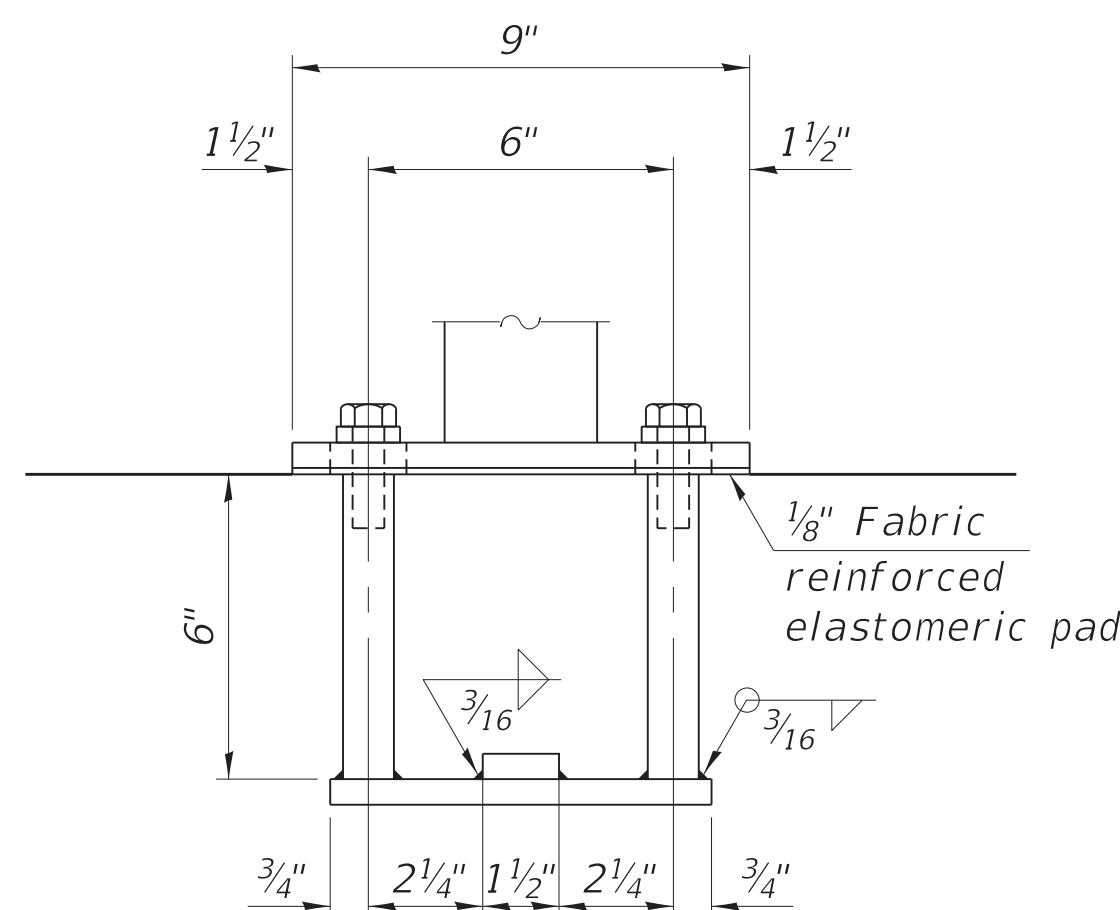
DETAIL C



DETAIL D



SECTION B-B



ANCHORAGE ASSEMBLY

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" Ø fully threaded anchor rods with the same plate washers as specified above and heavy hex lock nuts according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

BILL OF MATERIAL

Item	Unit	Quantity
Bicycle Railing	Foot	32

- Place reinforcement bars to miss anchor rod locations.
- CVN testing is not required for the HSS tubing used in the Bicycle Railing.
- All heavy hex nuts shall be according to ASTM A 563 grade DH.
- All fully threaded anchor rods shall be ASTM F1554 grade 105.
- The post base plate shall be fastened to the headwall snug tight and given an additional 1/8" turn.
- The Contractor shall determine the final post spacing based on the headwall length provided by the selected fabricator of the Precast Three-Sided Structure. The post spacing shall not exceed 10'-0" and adhere to the details and dimensions provided herein.
- All post, railing, anchor devices, and bent plates shall be painted using an Organic Zinc-Rich/ Expoy/ Urethane Paint System. The finish shall be powder coated in a color selected by the Forest Preserve District of DuPage County. The exact color and paint manufacturer shall be submitted to the Engineer in accordance with the Special Provisions for approval prior to painting any railing elements. This work shall be included in the unit cost per Foot for "Bridge Railing."

PLOT DATE : 8/24/25
FILE NAME : 18-0181.dwg
FILE NAME : 18-0181.dwg

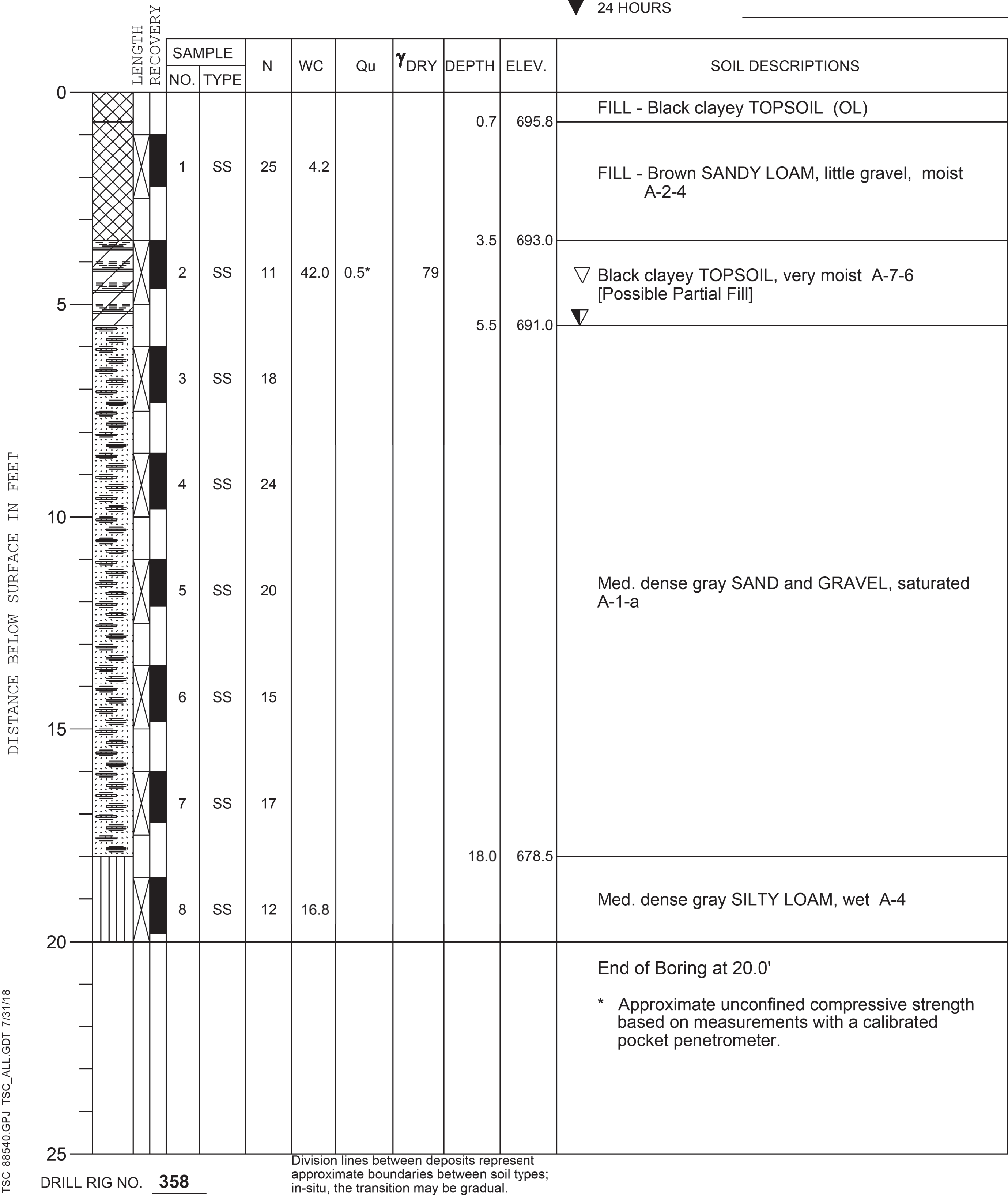
PROJECT **Culvert Replacement Springbrook No.1 Phase 2, Butterfield Road, Warrenville, IL**



CLIENT **WBK Engineering, LLC, 8 East Galena Boulevard Suite 402, Aurora, IL**

BORING **3** DATE STARTED **7-12-18** DATE COMPLETED **7-12-18** JOB **L-88,540**

ELEVATIONS WATER LEVEL OBSERVATIONS
GROUND SURFACE **696.5** WHILE DRILLING **5.5'**
END OF BORING **676.5** AT END OF BORING **4.5'**
24 HOURS



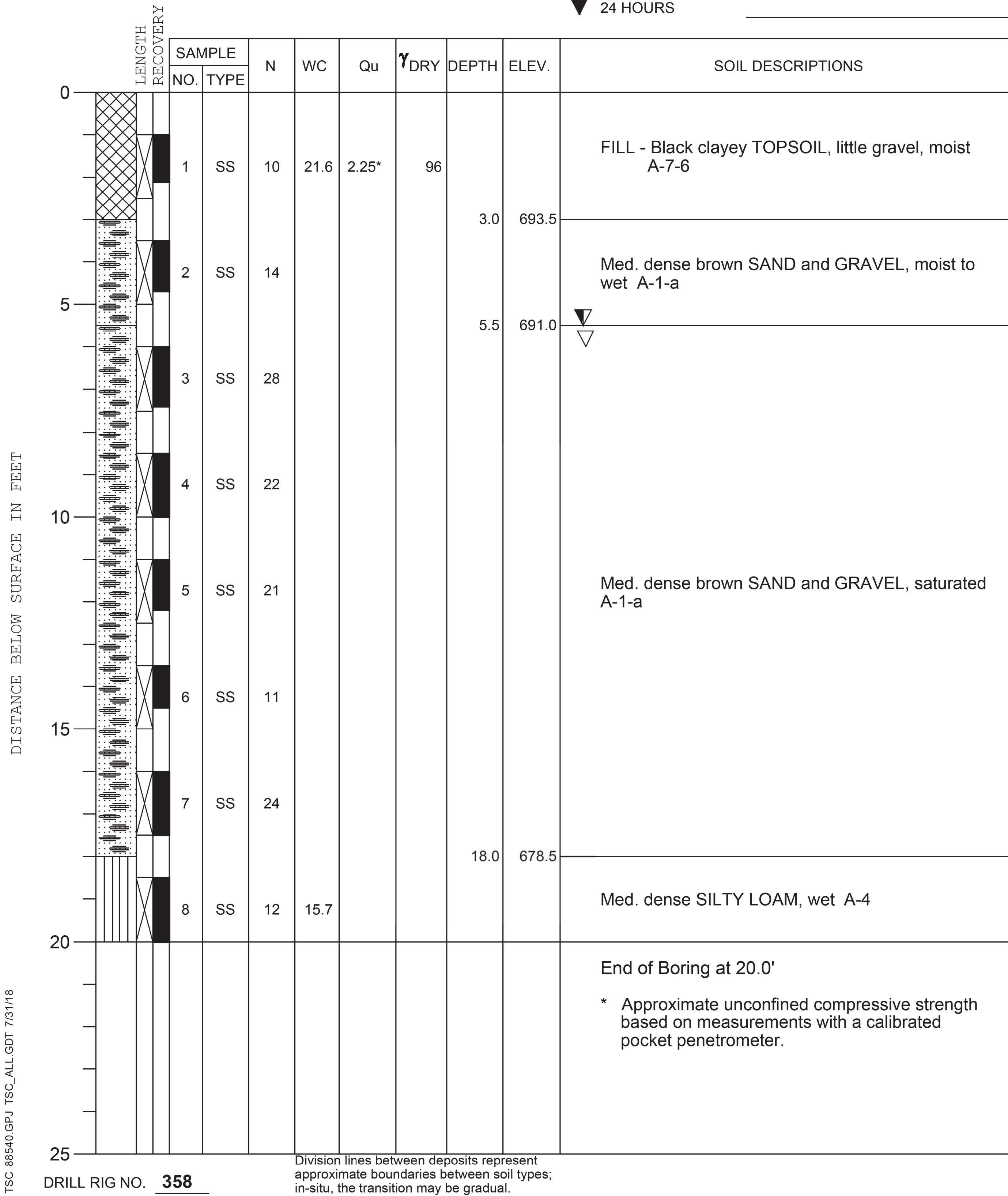
PROJECT **Culvert Replacement Springbrook No.1 Phase 2, Butterfield Road, Warrenville, IL**



CLIENT **WBK Engineering, LLC, 8 East Galena Boulevard Suite 402, Aurora, IL**

BORING **4** DATE STARTED **7-11-18** DATE COMPLETED **7-11-18** JOB **L-88,540**

ELEVATIONS WATER LEVEL OBSERVATIONS
GROUND SURFACE **696.5** WHILE DRILLING **5.5'**
END OF BORING **676.5** AT END OF BORING **6.0'**
24 HOURS



TITLE **SPRING BROOK No.1 CREEK & WETLAND RESTORATION - PHASE 3**

DESIGNER: JMM
DRAWN: JMM
CHECKED: CPT
SCALE: 1"=10'

DATE: 02/24/25
NATURE OF REVISION: 1

CLIENT: **FOREST PRESERVE DISTRICT OF DUPAGE COUNTY 3S580 NAPERVILLE ROAD WHEATON, IL 60189 (630) 933-7200**

WBK ENGINEERING LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755



PROJECT NO. 18-0181
DATE: 02/24/25
SHEET 4 OF 4
DRAWING NO. **34**