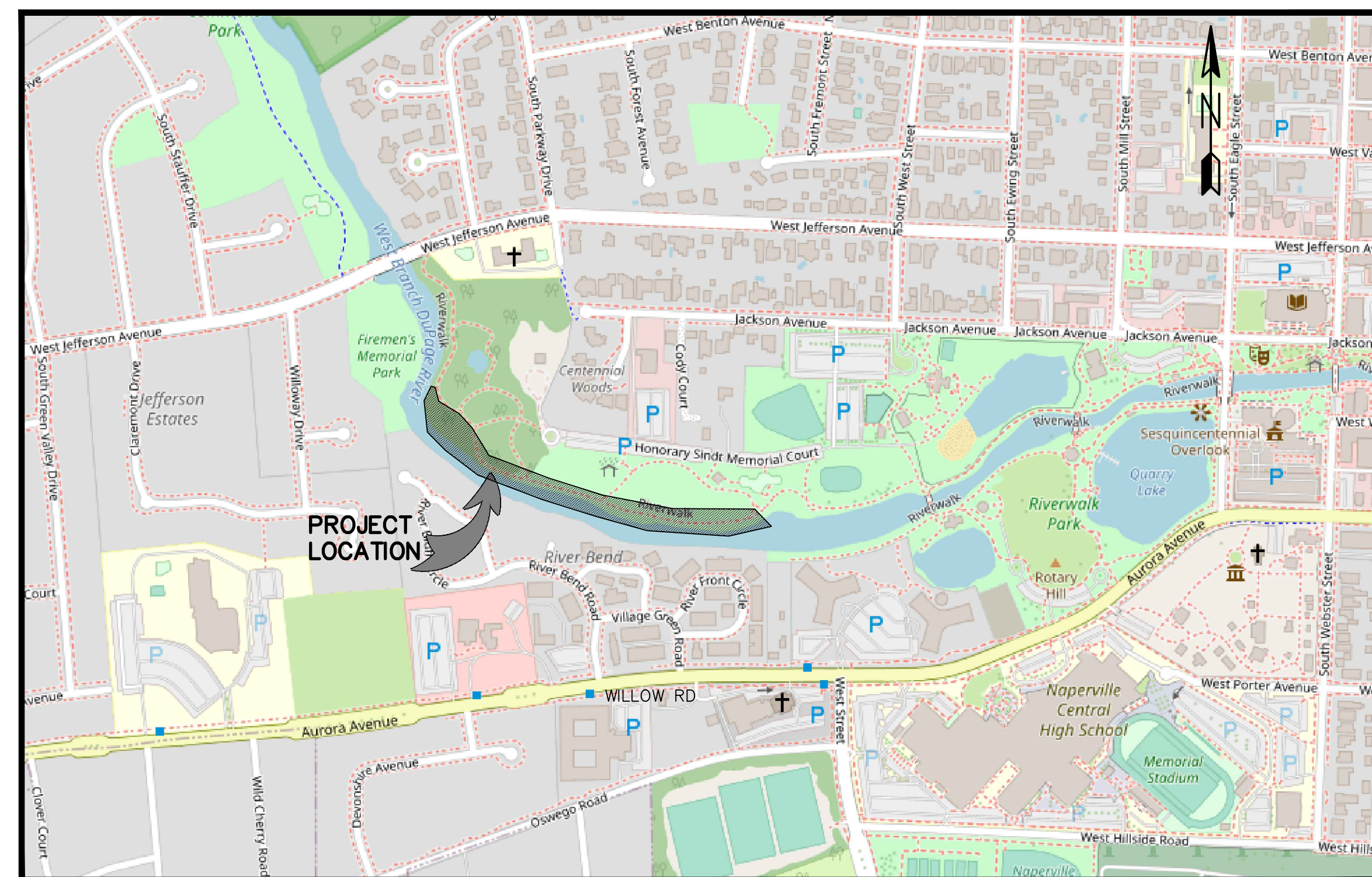


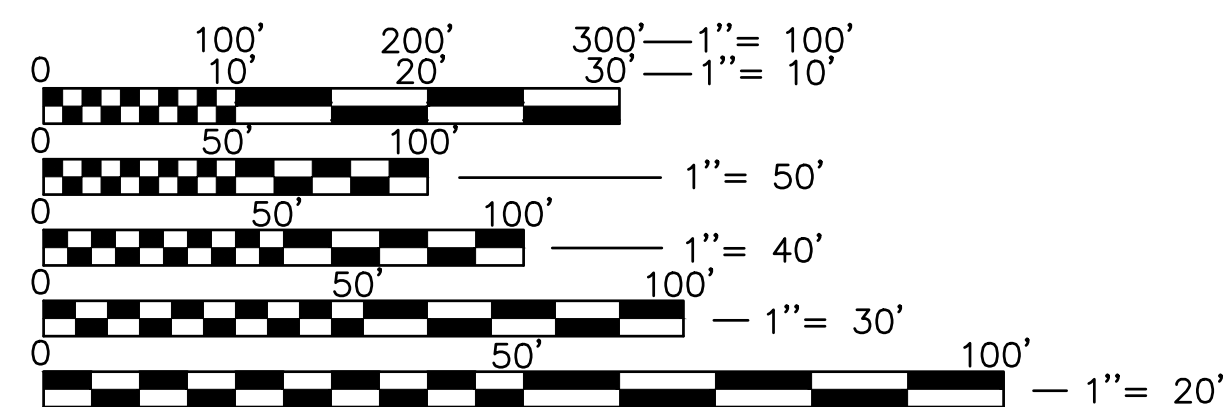
WEST BRANCH DuPAGE RIVER STABILIZATION NAPERVILLE PARK DISTRICT

INDEX TO DRAWINGS

1. COVER
2. QUANTITIES, LEGEND
- 3.-5. EXISTING CONDITIONS/DEMOLITION PLAN
- 6.-8. PROPOSED IMPROVEMENTS PLAN
- 9.-11. CROSS SECTIONS
- 12.-13. SWPPP
14. SWPPP NOTES
15. SWPPP DETAILS
- 16.-18. PLANTING PLAN
19. PLANTING DETAILS
20. STABILIZATION DETAILS



LOCATION MAP



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

PREPARED FOR:
NAPERVILLE PARK DISTRICT
320 W. JACKSON AVENUE NAPERVILLE,
ILLINOIS 60540
PHONE: (630) 848-5012
FAX: (630) 848-5019

SITE BENCHMARK = DPC38091302
 ALUM TABLET SET VERT. IN WALL OF NICHOLS LIBRARY. A GEOLOG DISK READS 1905-693 (ALSO NAPERVILLE DATUM NA13003).
 ELEV. 693.009
 BENCHMARK CP #1
 SET MAG NAIL IN PATH STA. 115+88.34, 7.45'L.T.
 ELEV. 673.49 (NAVD 88)
 BENCHMARK CP #4
 SET IRON PIPE STA. 104+40.67, 4.62'RT.
 ELEV. 672.11 (NAVD 88)



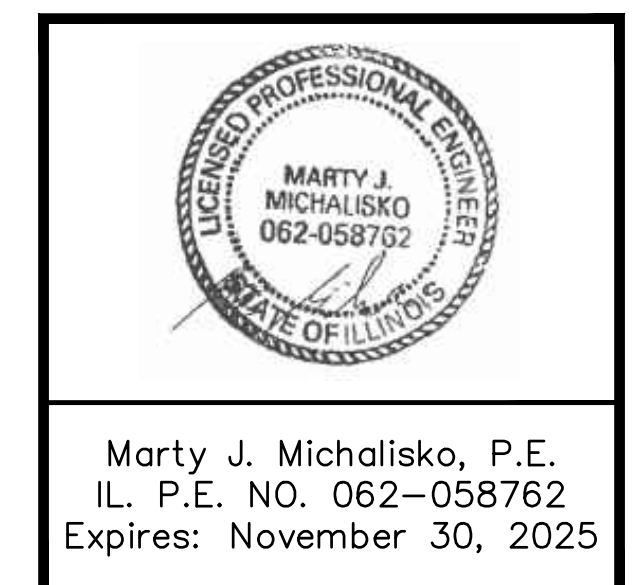
ENGINEERING
 RESOURCE ASSOCIATES

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REVISED: JUNE 26, 2024
 50% SUBMITTAL: NOVEMBER 10, 2023
 ORIGINAL SUBMITTAL: SEPTEMBER, 2023



Marty J. Michalisko, P.E.
 IL. P.E. NO. 062-058762
 Expires: November 30, 2025

ERA JOB NO.: W23198

SUMMARY OF QUANTITIES

	EXISTING	PROPOSED
CURB & GUTTER	=====	=====
BARRIER CURB	=====	=====
EDGE OF PAVEMENT	-----	-----
SANITARY SEWER	—>	—>
STORM SEWER	—>>	—>>
DRAIN TILE	—>>>	—>>>
UNDERDRAIN	—>>>>	—>>>>
FLOODWAY	—FW—	—FW—
10 YR FLOOD PLAIN	—10YR—	—10YR—
100 YR FLOOD PLAIN	—100YR—	—100YR—
ELECTRIC	—E—	—E—
CABLE	—CATV—	—CATV—
GAS	—G—	—G—
AT&T	—ATT—	—ATT—
TELEPHONE	—T—	—T—
WATER	—W—	—W-XX"
OVERHEAD WIRE	—OH—	—OH—
MANHOLE	⊙	●
CATCH BASIN	○	●
INLET	□	■
FLARED END SECTION (FES)	▷	▷
FILL STRUCTURE		⊗ F
REMOVE STRUCTURE	⊗	⊗ R
RECONSTRUCT STRUCTURE		⊗ RC
ADJUST STRUCTURE		⊗ ADJ
VALVE VAULT	⊗	⊗
VALVE & BOX	⊗	⊗
BUFFALO BOX	⊗	⊗
HYDRANT	⊗	⊗
GAS VALVE	⊗	⊗
HANDHOLE	⊗	⊗
UTILITY PEDESTAL	⊗	⊗
UTILITY POLE	⊗	⊗
UTILITY POLE W/STREET LIGHT	⊗	⊗
STREET LIGHT	⊗	⊗
WALKWAY LIGHT	⊗	⊗
YARD LIGHT	⊗	⊗
SPOT LIGHT	⊗	⊗
STREET LIGHT CONTROLLER	⊗	⊗
BASKETBALL HOOP	⊗	⊗
MAIL BOX	⊗	⊗
SIGN	⊗	⊗
INLET FILTER	⊗	⊗
FENCE	—x—x—	—x—x—
WOOD FENCE	—○—○—	—○—○—
REMOVE TREE	⊗	⊗
TREE(DECIDUOUS)	⊗	⊗
TREE(CONIFEROUS)	⊗	⊗
BUTT JOINT	⊗	⊗
SIDEWALK REMOVE & REPLACE	⊗	⊗
LANDSCAPED AREA	⊗	⊗



STAGING DIAGRAM
SCALE 1"=120'

REVISIONS:					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

DRAWN BY: RT
CHECKED BY: EP
APPROVED BY: MM



35701 WEST AVENUE, SUITE 150
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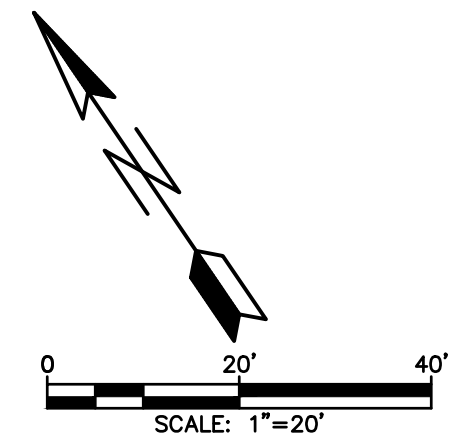
**WEST BRANCH DuPAGE RIVER
STABILIZATION
NAPERVILLE PARK DISTRICT**

TITLE: **SUMMARY OF QUANTITIES, LEGEND**

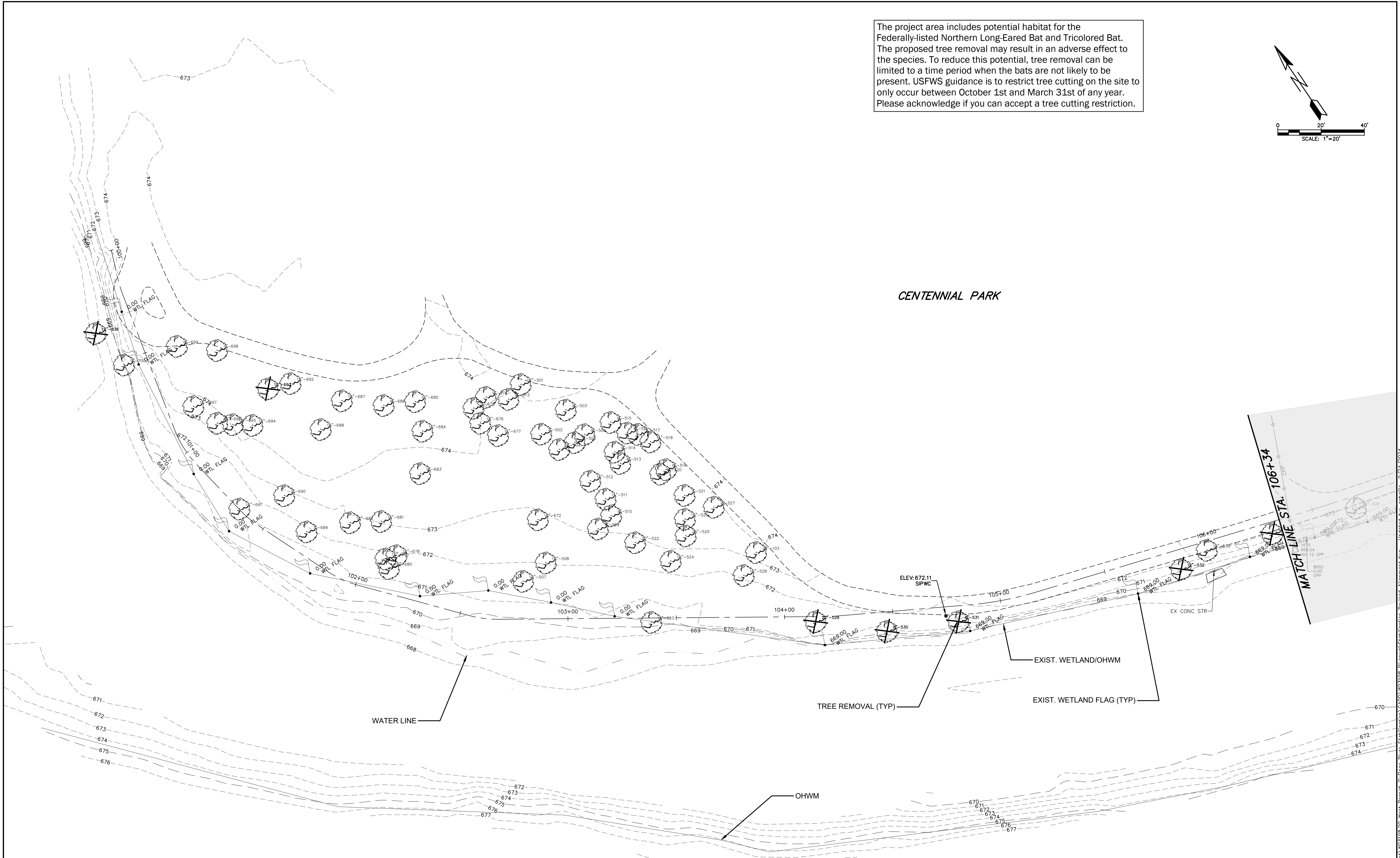
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DATE: July, 2024
JOB NO: W23198
SHEET 2 OF 2

H:\Naperville\Projects\W23198\00 West Branch DuPage River Stabilization\CADD\W23198 Cover-SWPPP_Details.DWG Updated by: achalle 7/8/2024

The project area includes potential habitat for the Federally-listed Northern Long-Eared Bat and Tricolored Bat. The proposed tree removal may result in an adverse effect to the species. To reduce this potential, tree removal can be limited to a time period when the bats are not likely to be present. USFWS guidance is to restrict tree cutting on the site to only occur between October 1st and March 31st of any year. Please acknowledge if you can accept a tree cutting restriction.



CENTENNIAL PARK



REVISIONS:					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

DRAWN BY: RT
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 APPROVED BY: _____



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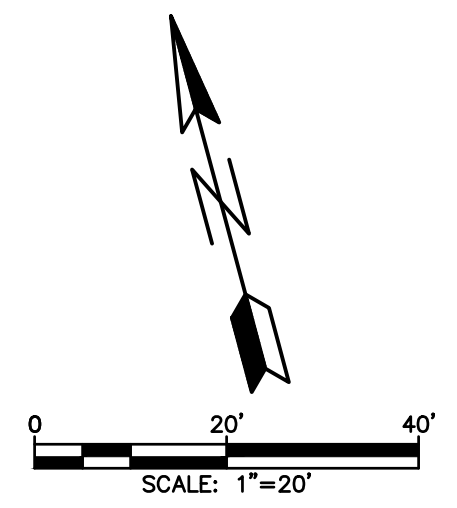
**WEST BRANCH DuPAGE RIVER
 STABILIZATION
 NAPERVILLE PARK DISTRICT**

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 STA. 100+00 TO STA. 106+00**

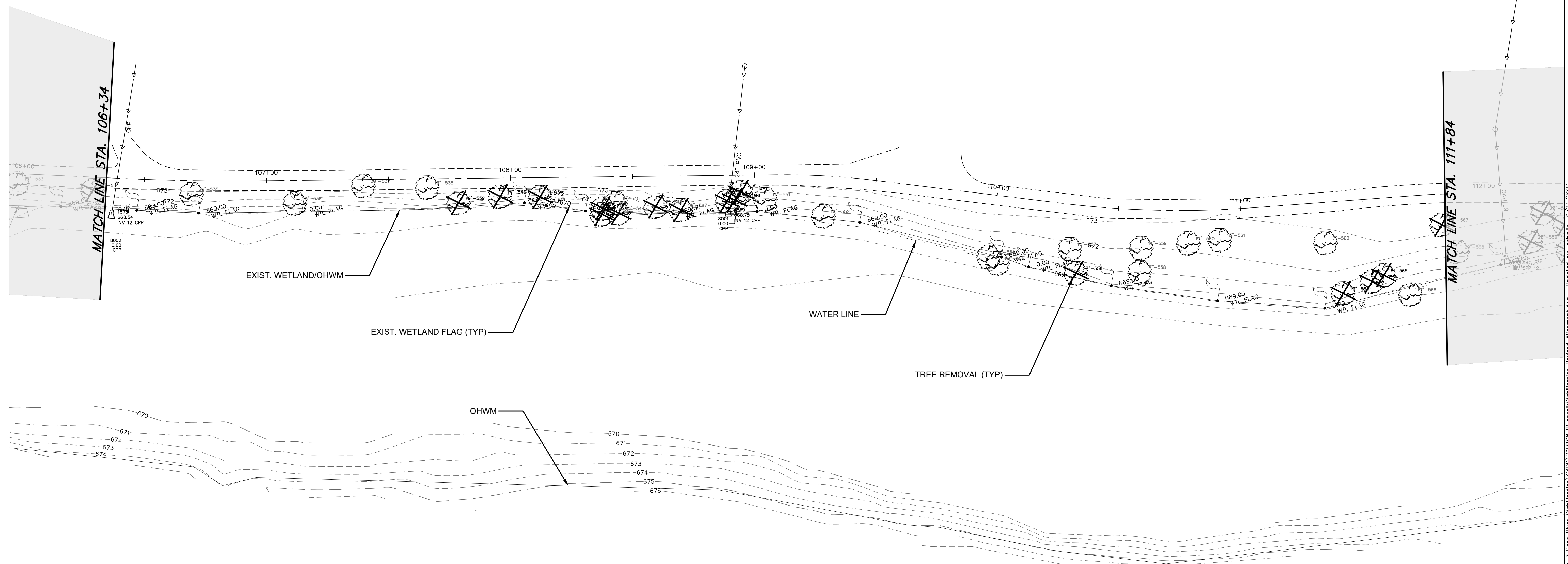
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 JOB NO: W23198
 SHEET 3 OF 3

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The project area includes potential habitat for the Federally-listed Northern Long-Eared Bat and Tricolored Bat. The proposed tree removal may result in an adverse effect to the species. To reduce this potential, tree removal can be limited to a time period when the bats are not likely to be present. USFWS guidance is to restrict tree cutting on the site to only occur between October 1st and March 31st of any year. Please acknowledge if you can accept a tree cutting restriction.



CENTENNIAL PARK



REVISIONS:					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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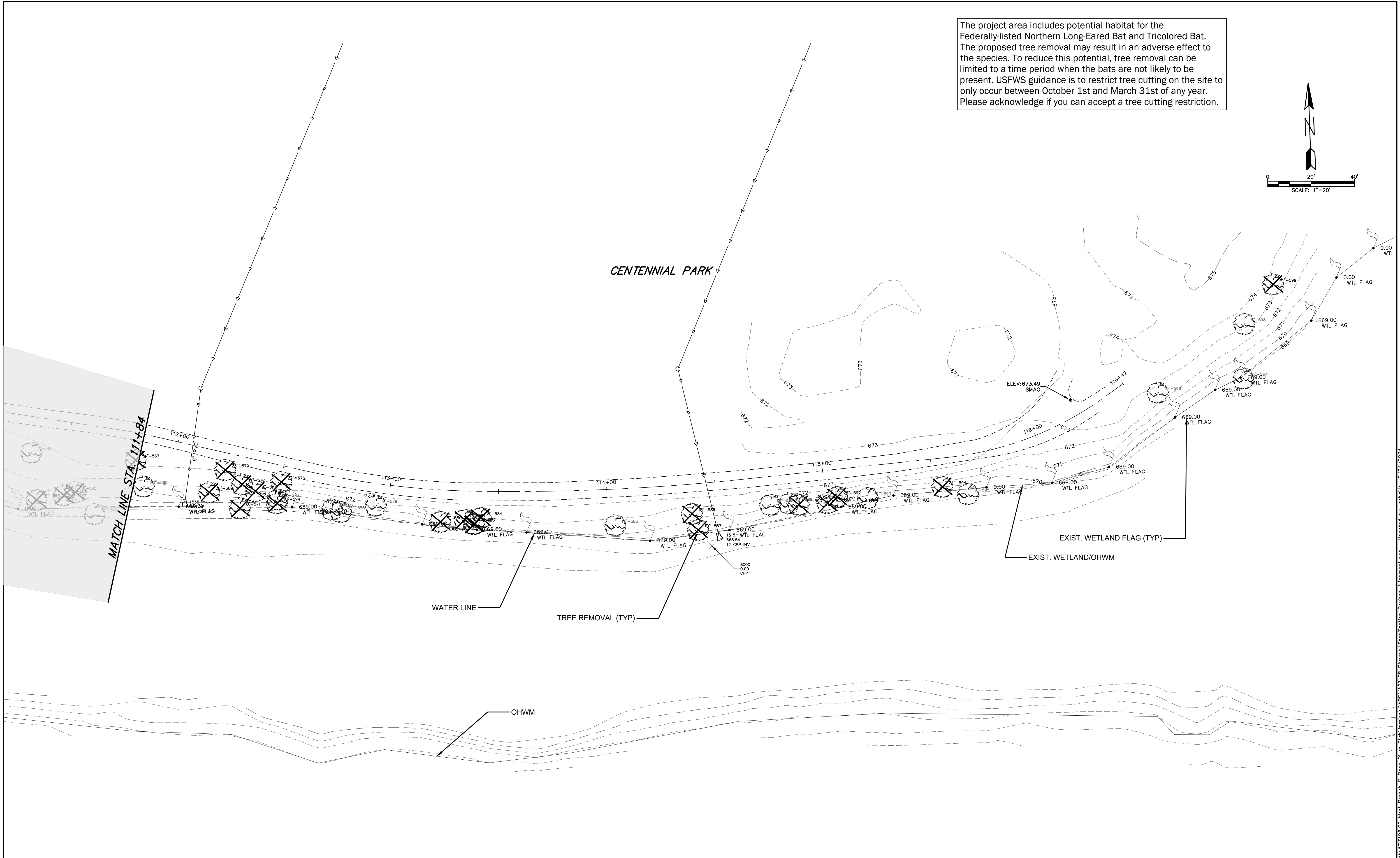
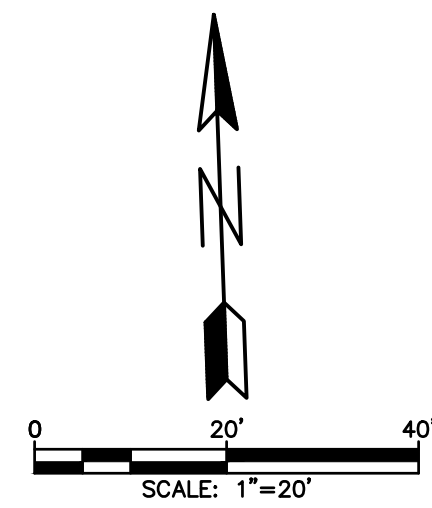
**WEST BRANCH DuPAGE RIVER
 STABILIZATION
 NAPERVILLE PARK DISTRICT**

TITLE: **EXISTING CONDITIONS
 AND DEMOLITION PLAN
 STA. 106+00 TO STA. 111+50**

SCALE: 1"=20'
 DATE: September, 2024
 JOB NO: W23198
 SHEET 4 OF 4

H:\naperville\ford\dist\W23198\00 West Branch DuPage River Stabilization\CADD\W23198 RiverwalkStabilization Revised Alignment.dwg Updated by: acnalle 9/24/2024

The project area includes potential habitat for the Federally-listed Northern Long-Eared Bat and Tricolored Bat. The proposed tree removal may result in an adverse effect to the species. To reduce this potential, tree removal can be limited to a time period when the bats are not likely to be present. USFWS guidance is to restrict tree cutting on the site to only occur between October 1st and March 31st of any year. Please acknowledge if you can accept a tree cutting restriction.



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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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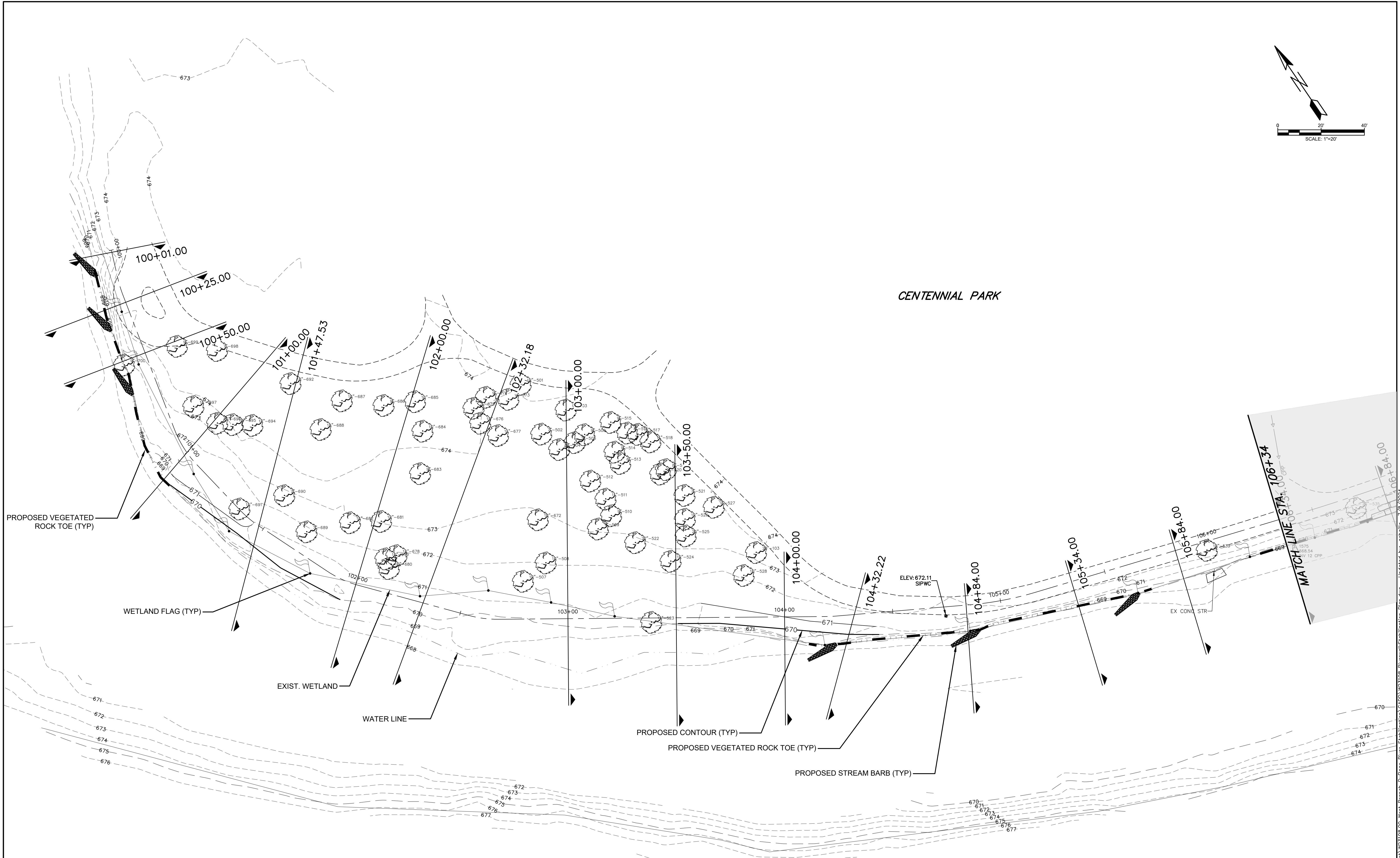
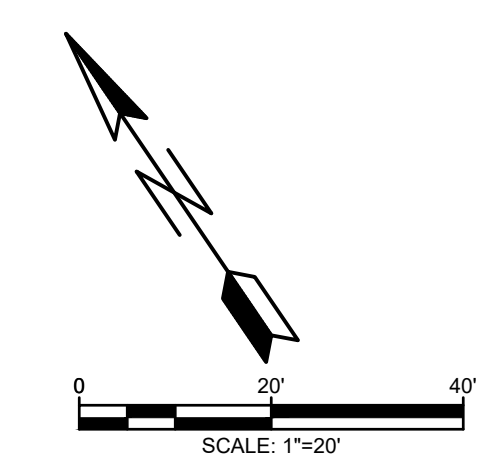
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**WEST BRANCH DuPAGE RIVER
 STABILIZATION
 NAPERVILLE PARK DISTRICT**

TITLE: **EXISTING CONDITIONS
 AND DEMOLITION PLAN
 STA. 111+50 TO STA. 116+13**

SCALE: 1"=20'
 DATE: September, 2024
 JOB NO: W23198
 SHEET: 5 OF 5



REVISIONS:					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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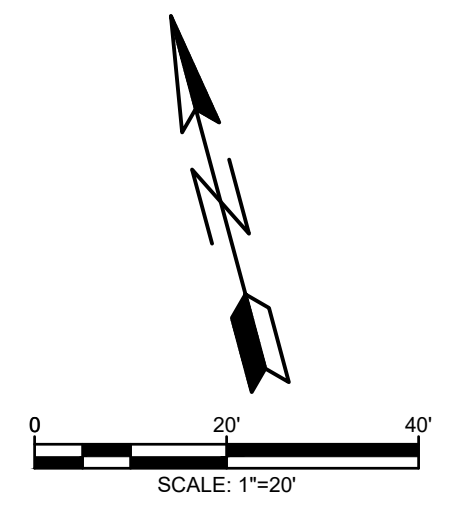
2416 GALEN DRIVE
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 PHONE (217) 351-6268
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**WEST BRANCH DuPAGE RIVER
 STABILIZATION
 NAPERVILLE PARK DISTRICT**

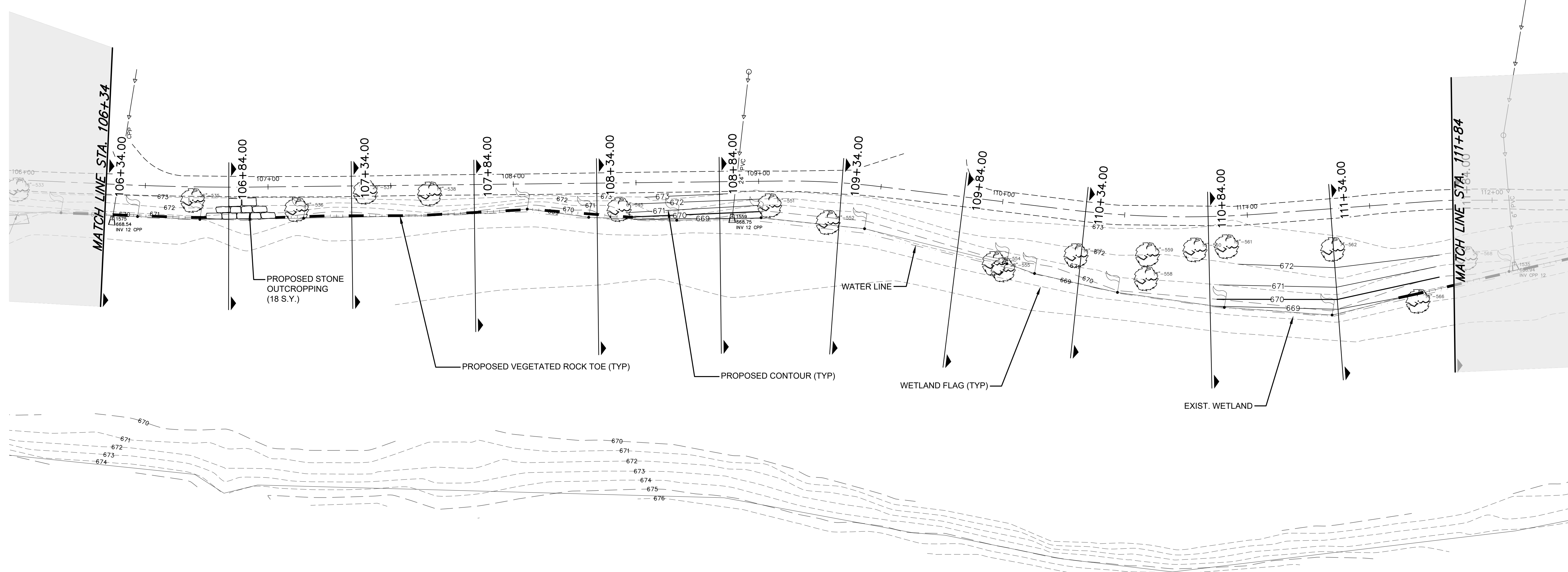
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**PROPOSED IMPROVEMENTS
 STA. 100+00 TO STA. 106+34**

SCALE: 1" = 20'
DATE: July, 2024
JOB NO: W23198
SHEET: 6 OF 6

H:\Naperville\GIS\W23198\00 West Branch DuPage River Stabilization\CADD\W23198 RiverbankStabilization Plan.dwg Updated by: acnalle 7/8/2024



CENTENNIAL PARK



REVISIONS:					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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 PHONE (630) 393-3060
 FAX (630) 393-2152

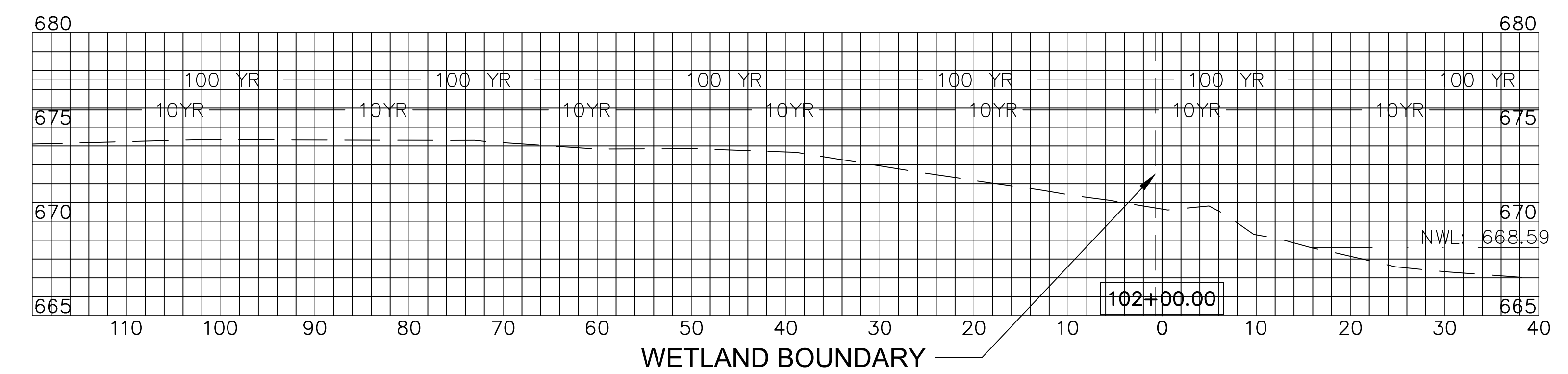
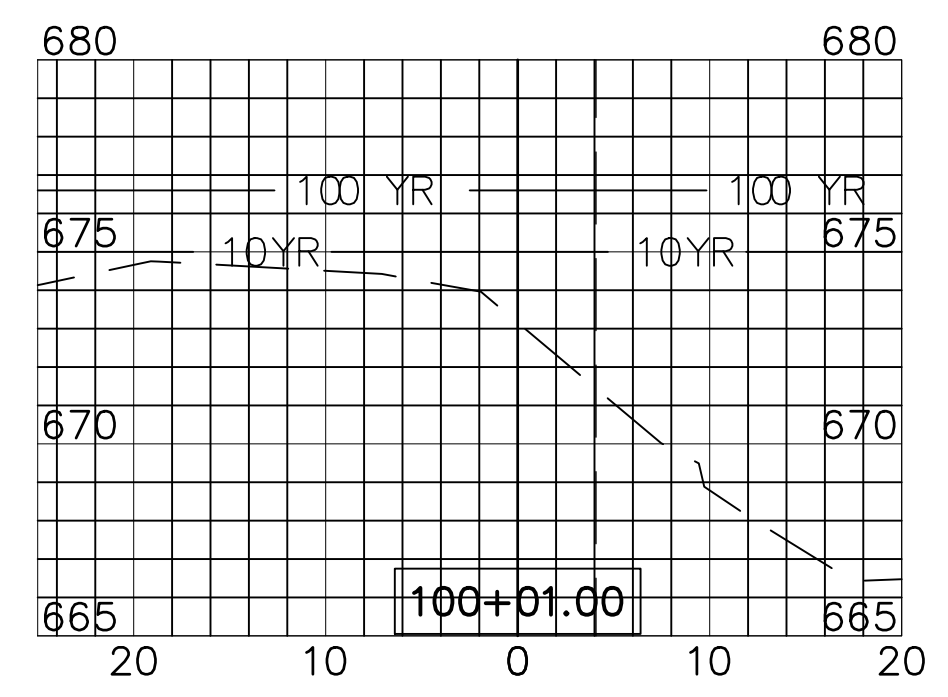
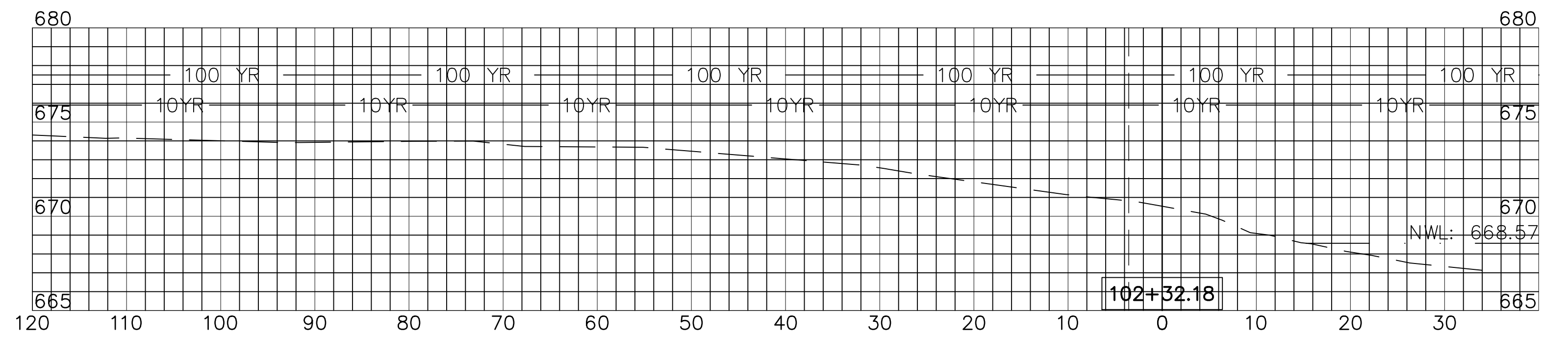
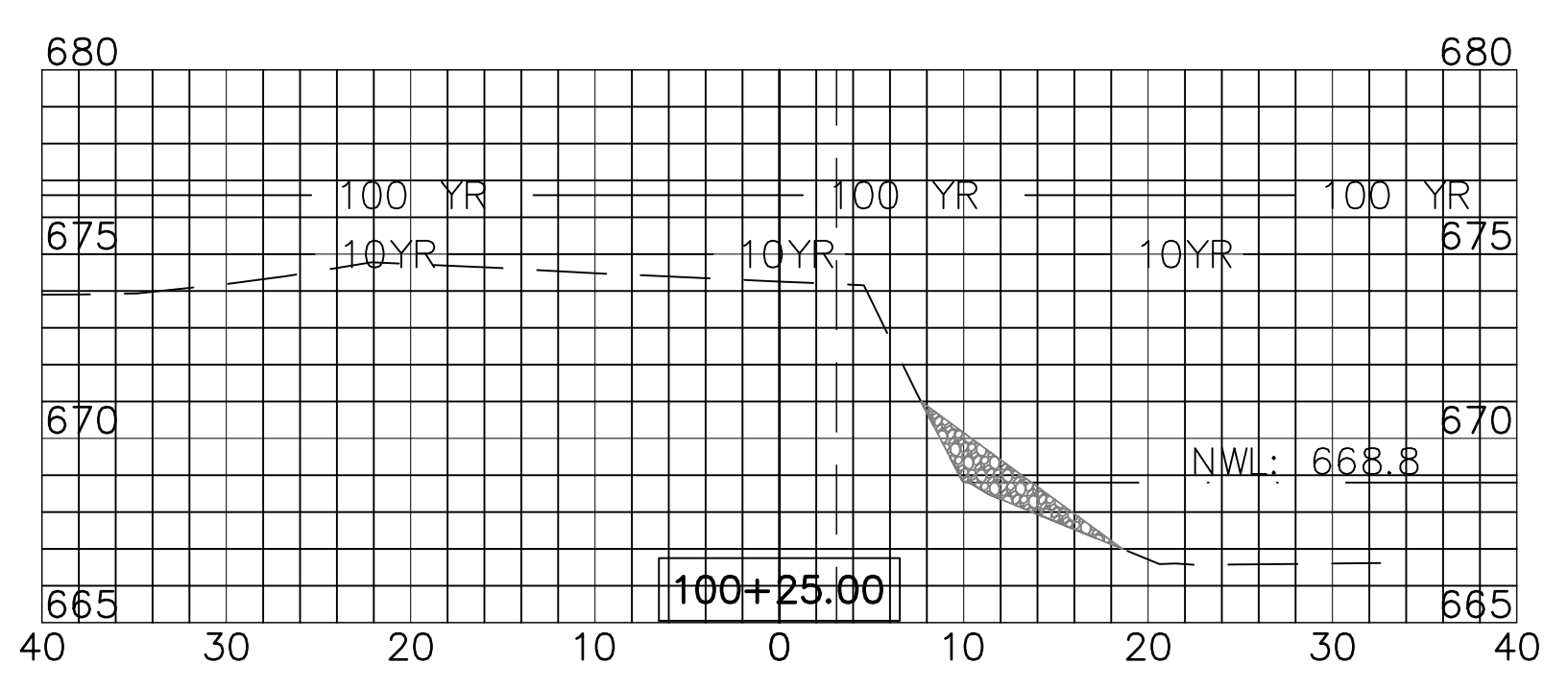
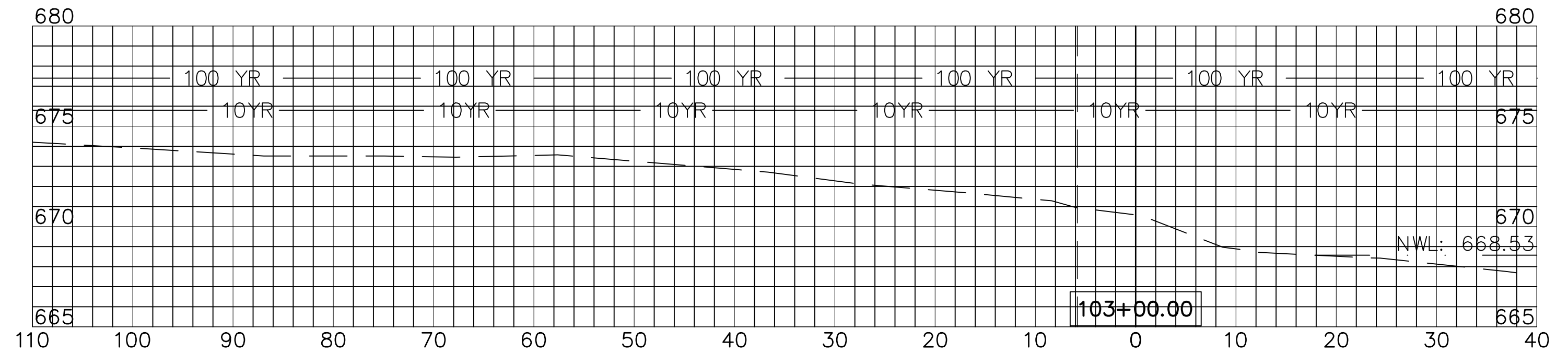
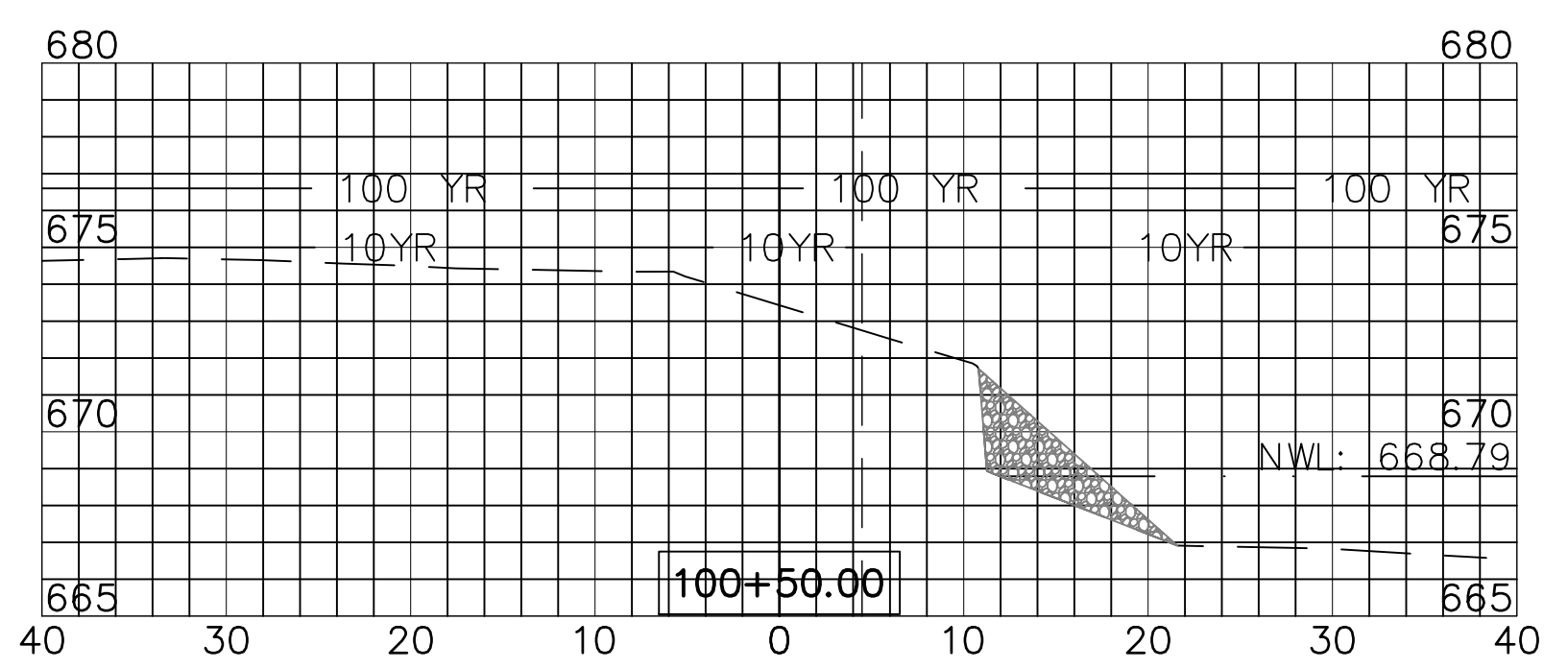
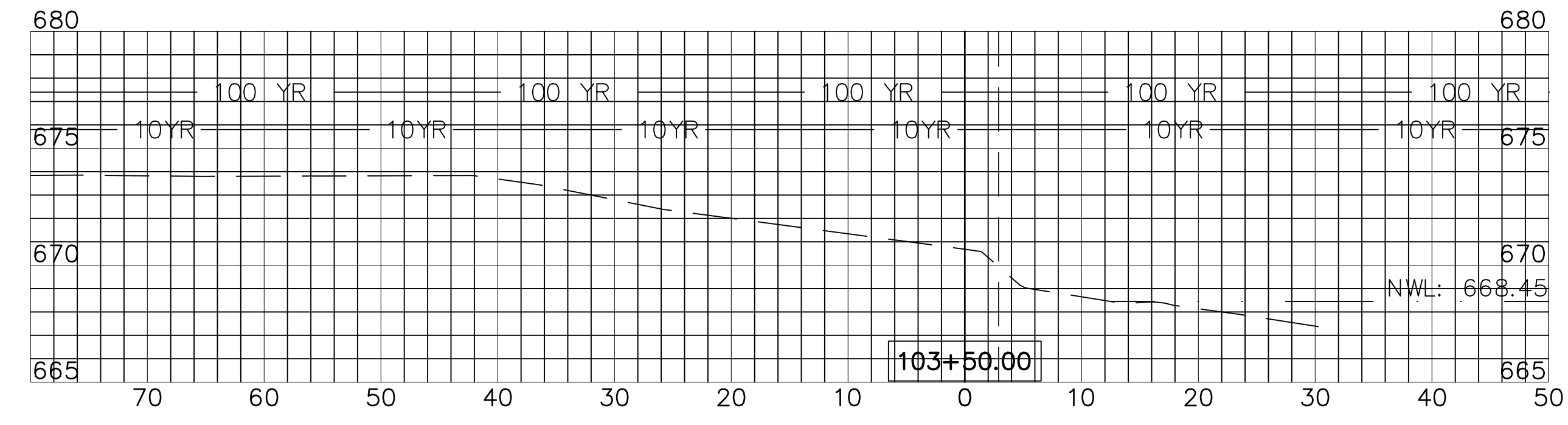
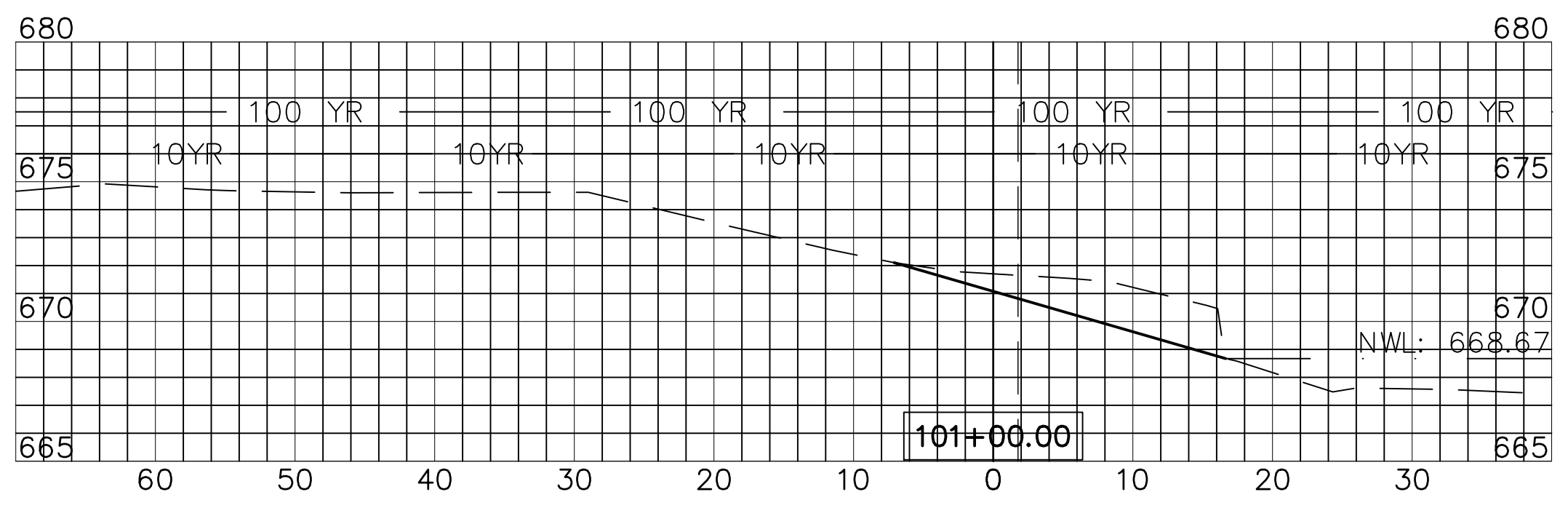
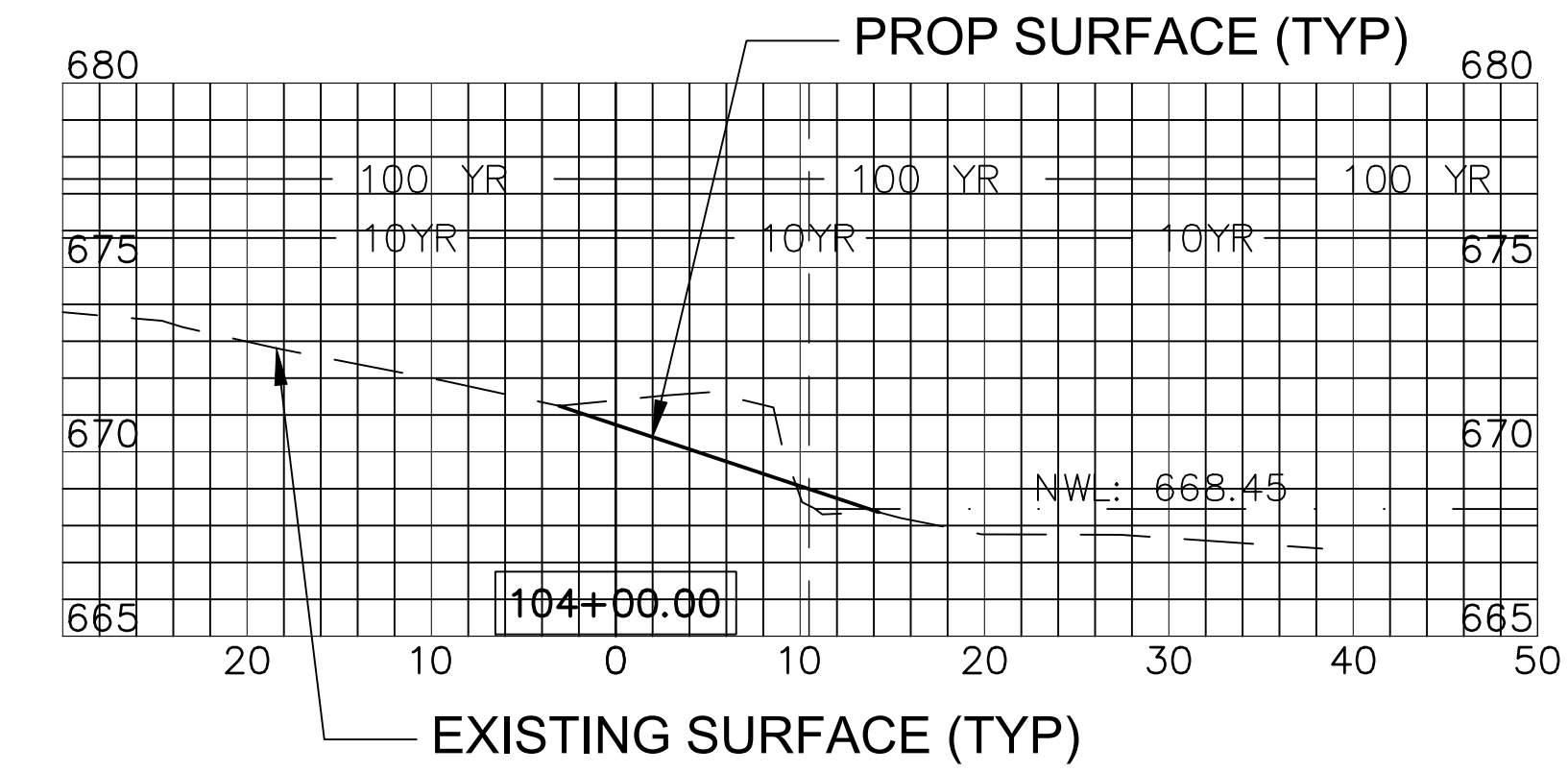
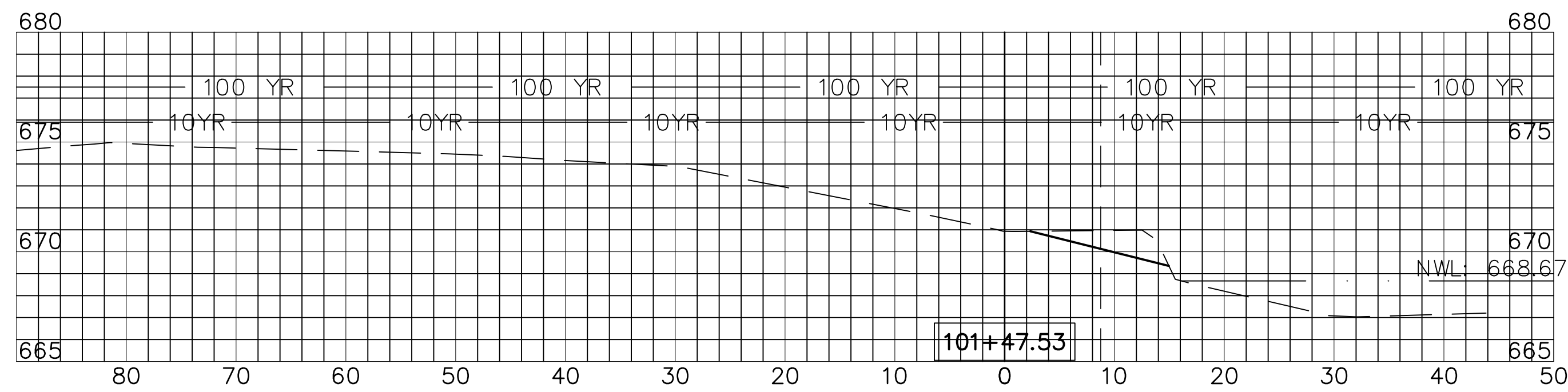
10 S. RIVERSIDE PLAZA, SUITE 875
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**WEST BRANCH DuPAGE RIVER
 STABILIZATION
 NAPERVILLE PARK DISTRICT**

TITLE:
**PROPOSED IMPROVEMENTS
 STA. 106+34 TO STA. 111+84**

SCALE: 1" = 20'
 DATE: July, 2024
 JOB NO: W23198
 SHEET 7 OF 7



- LEGEND**
- PROP ROCK TOE
 - PROP LIMESTONE OUTCROPPING
 - EXISTING SURFACE
 - PROPOSED SURFACE
 - NORMAL WATER LEVEL
 - WETLAND BOUNDARY

REVISIONS:					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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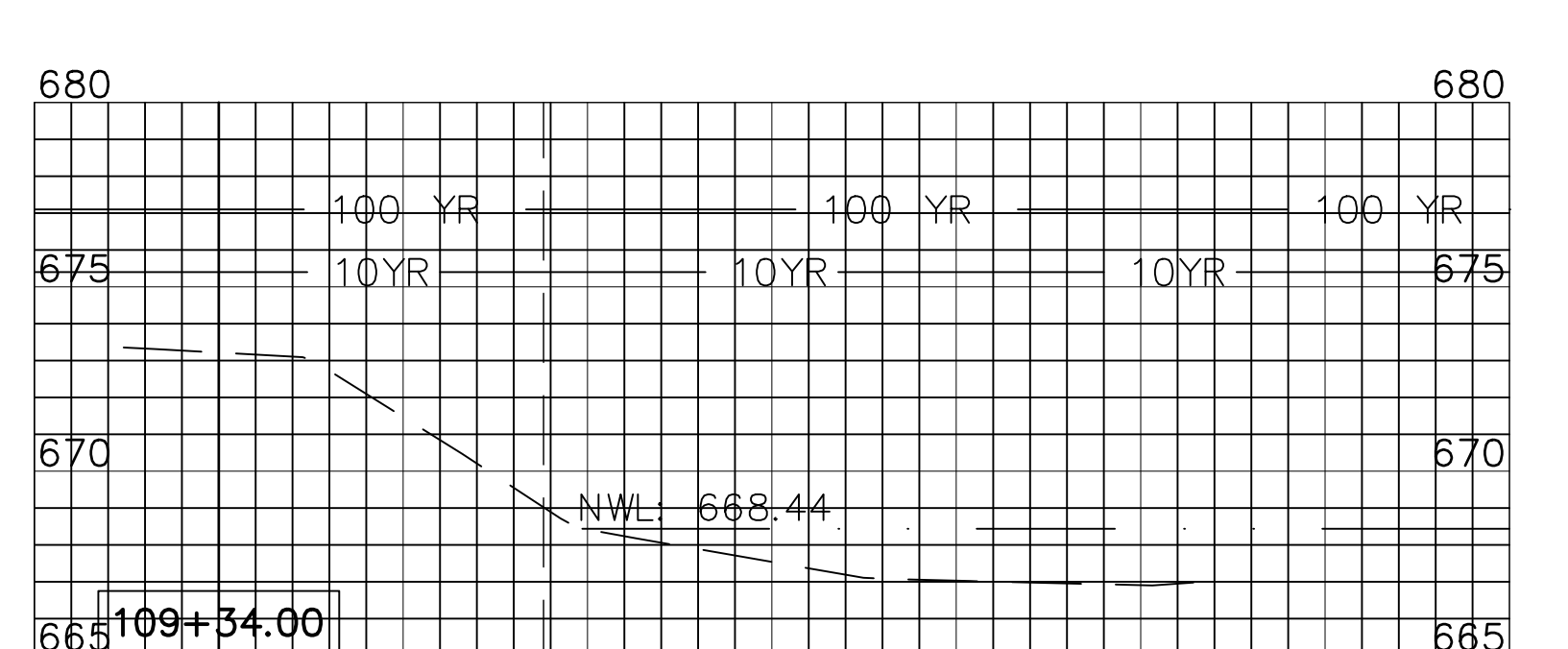
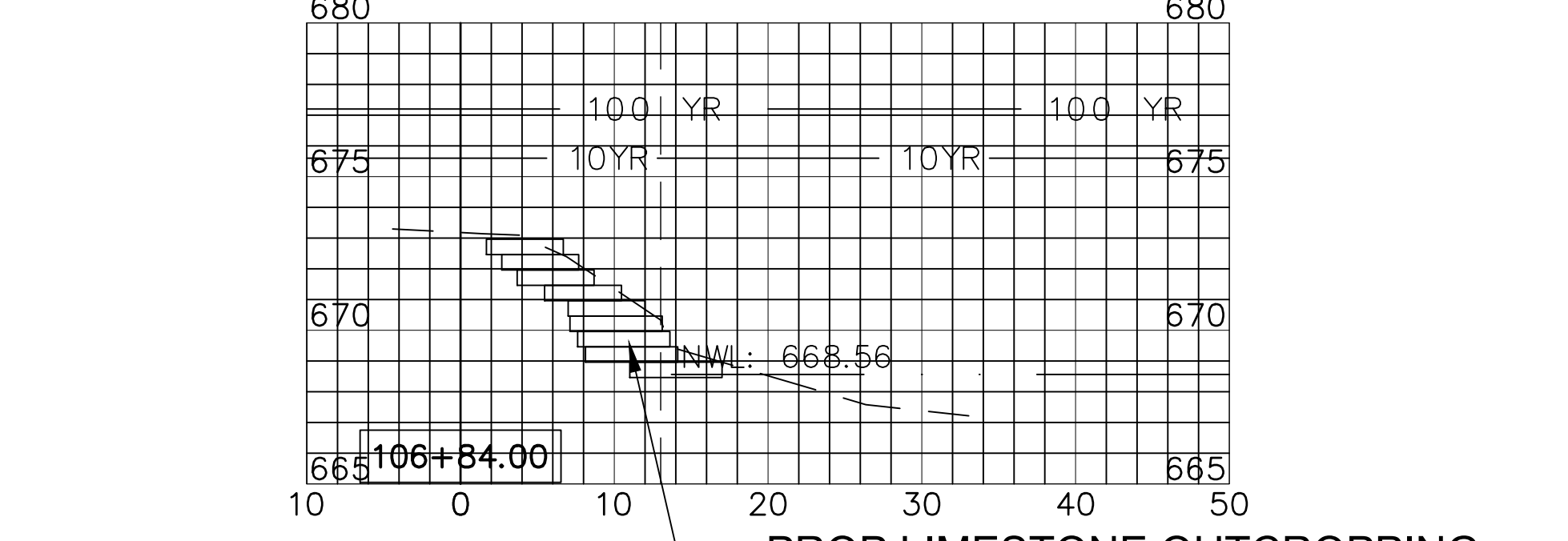
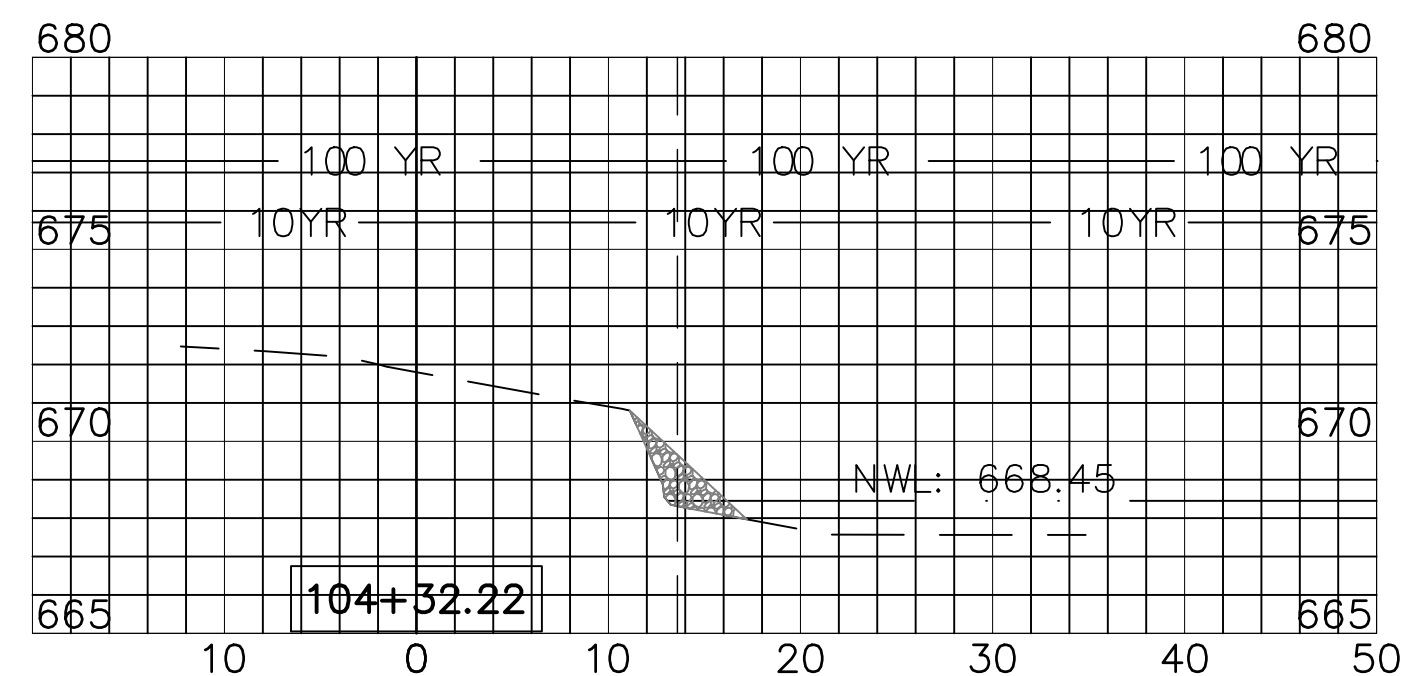
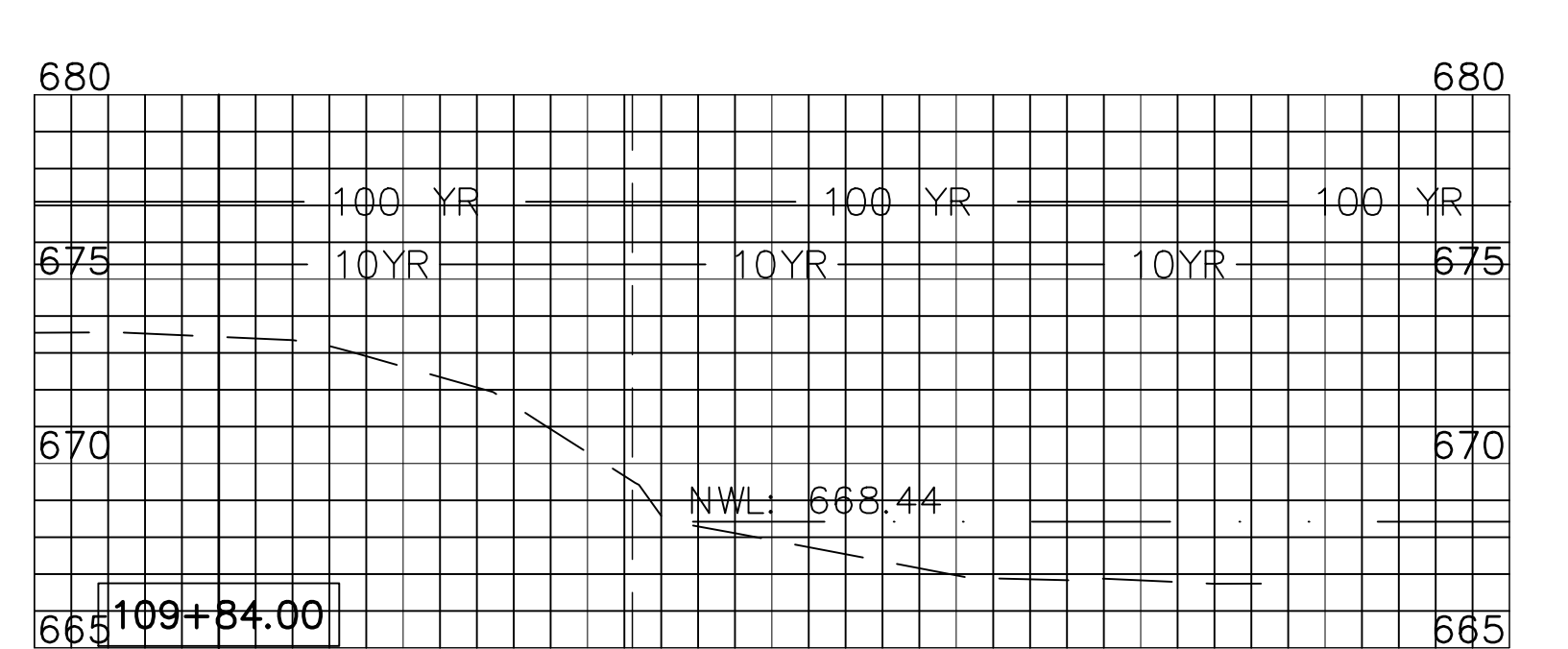
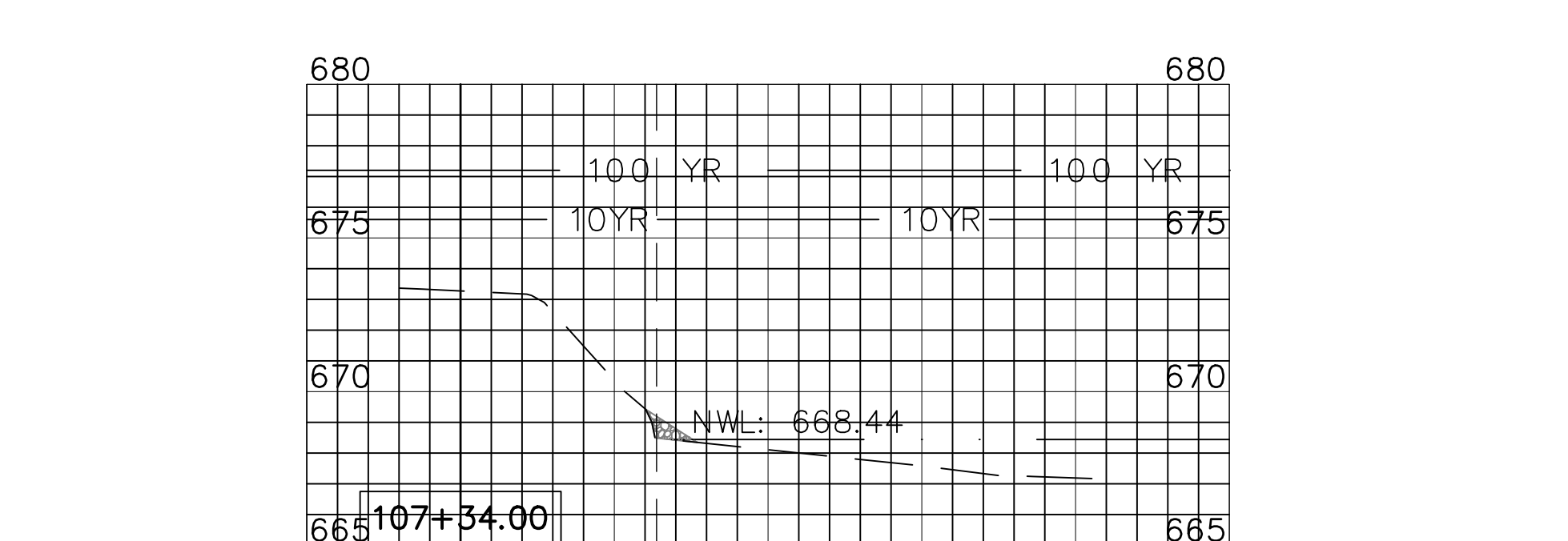
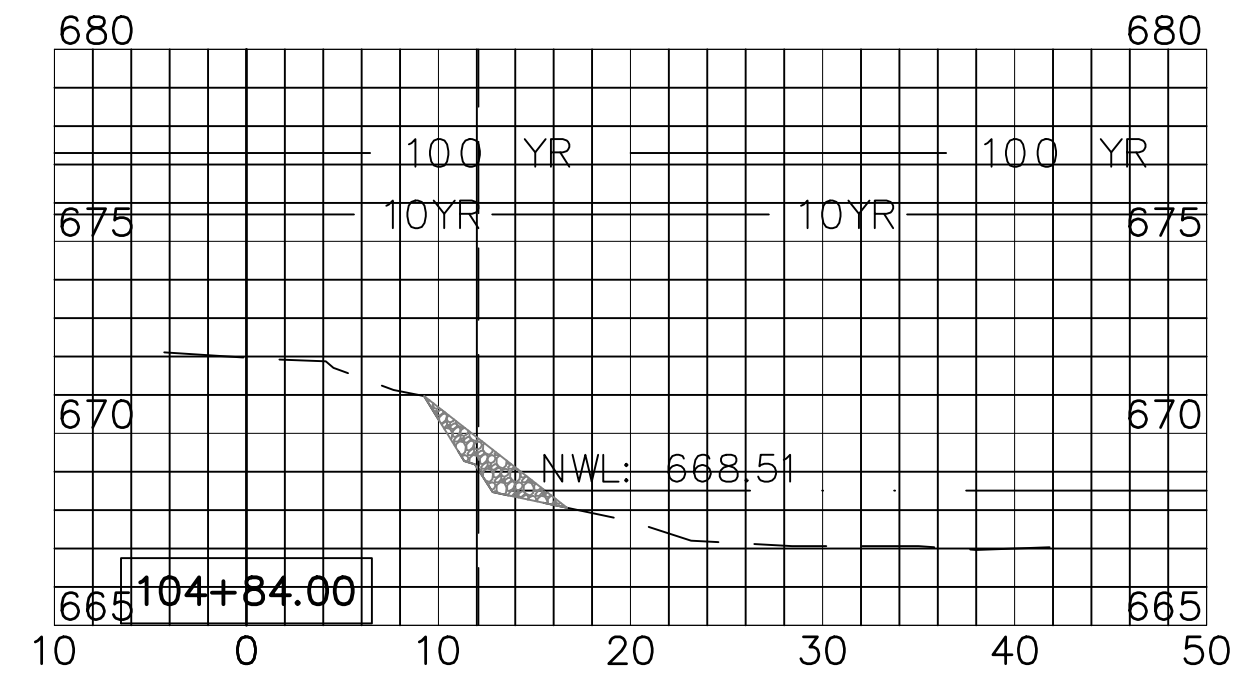
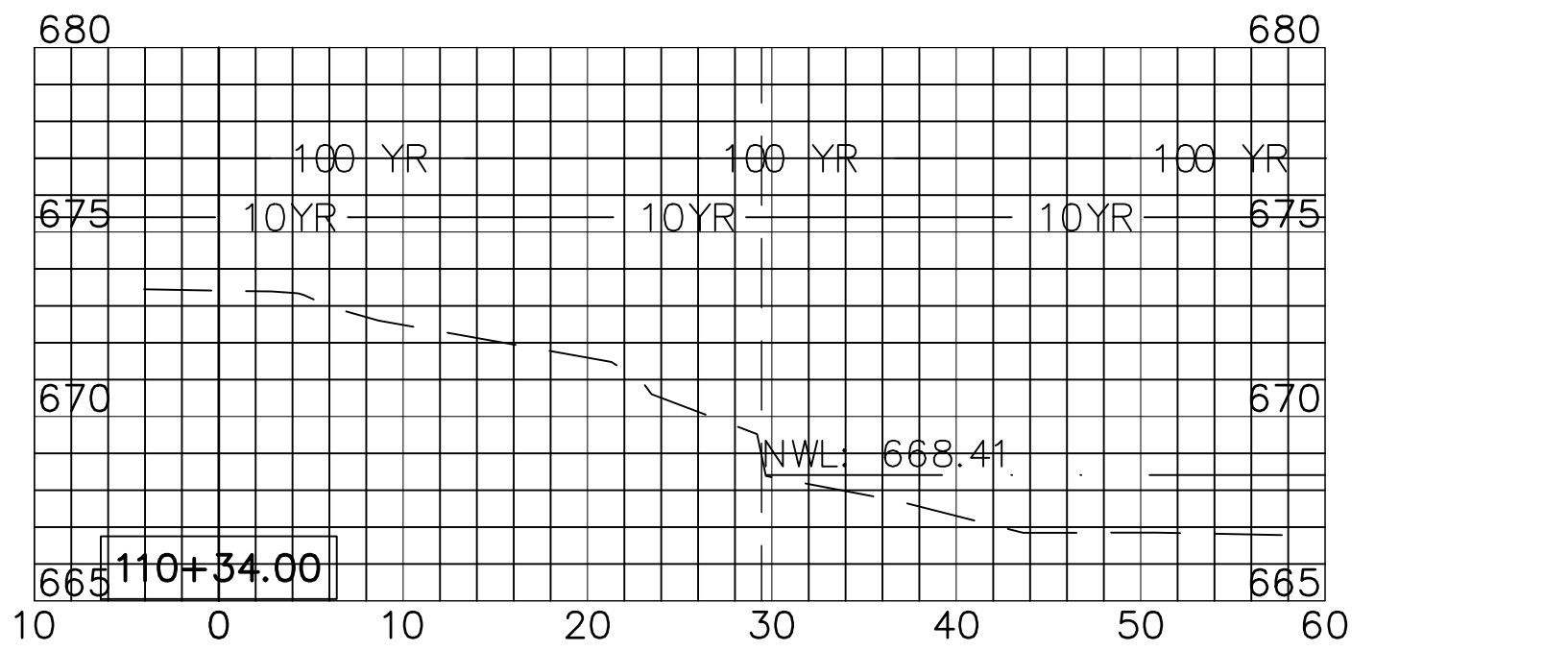
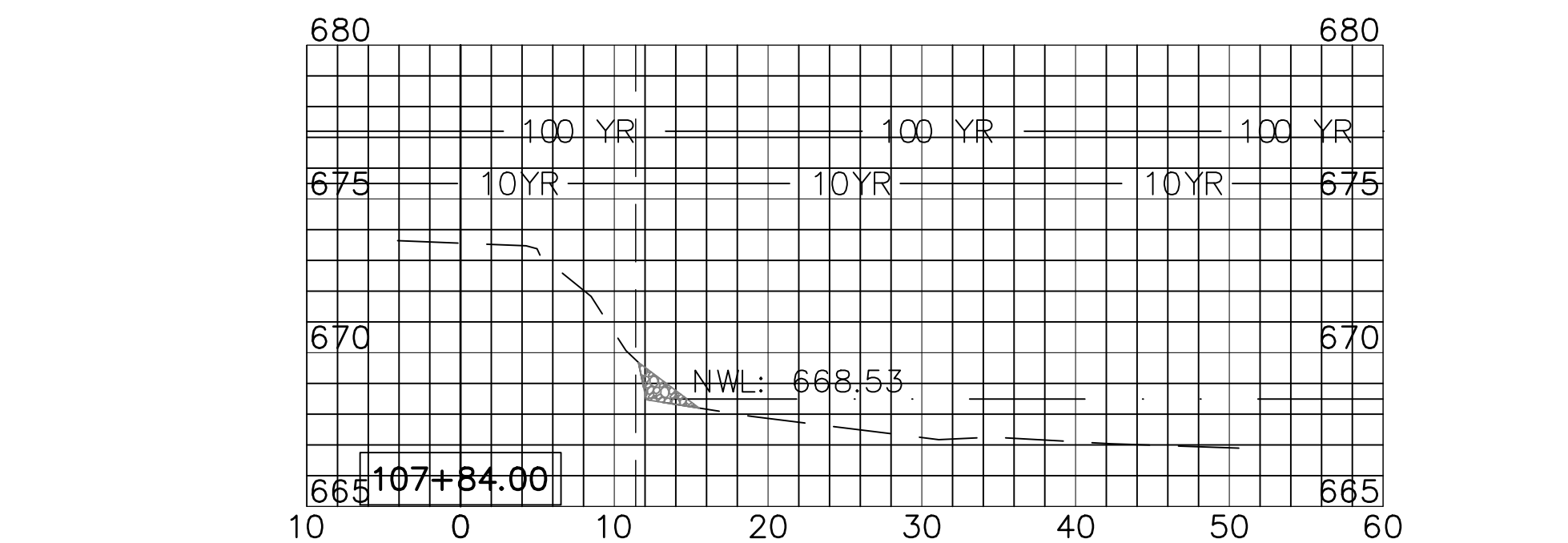
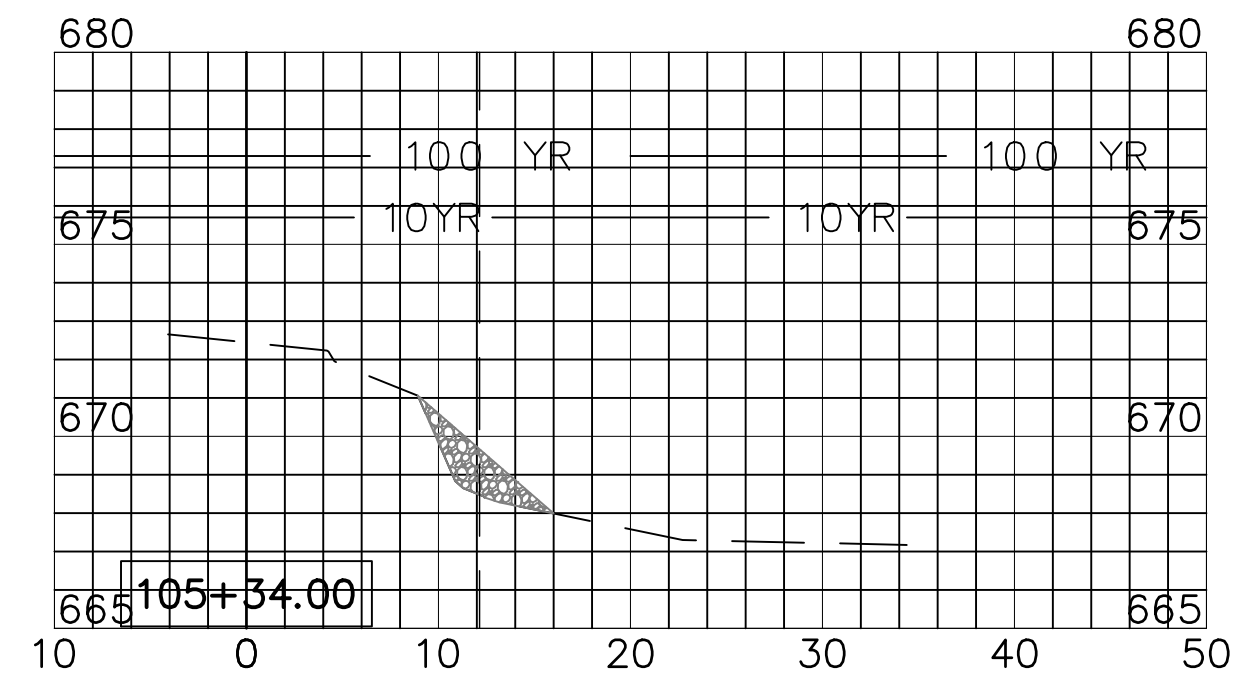
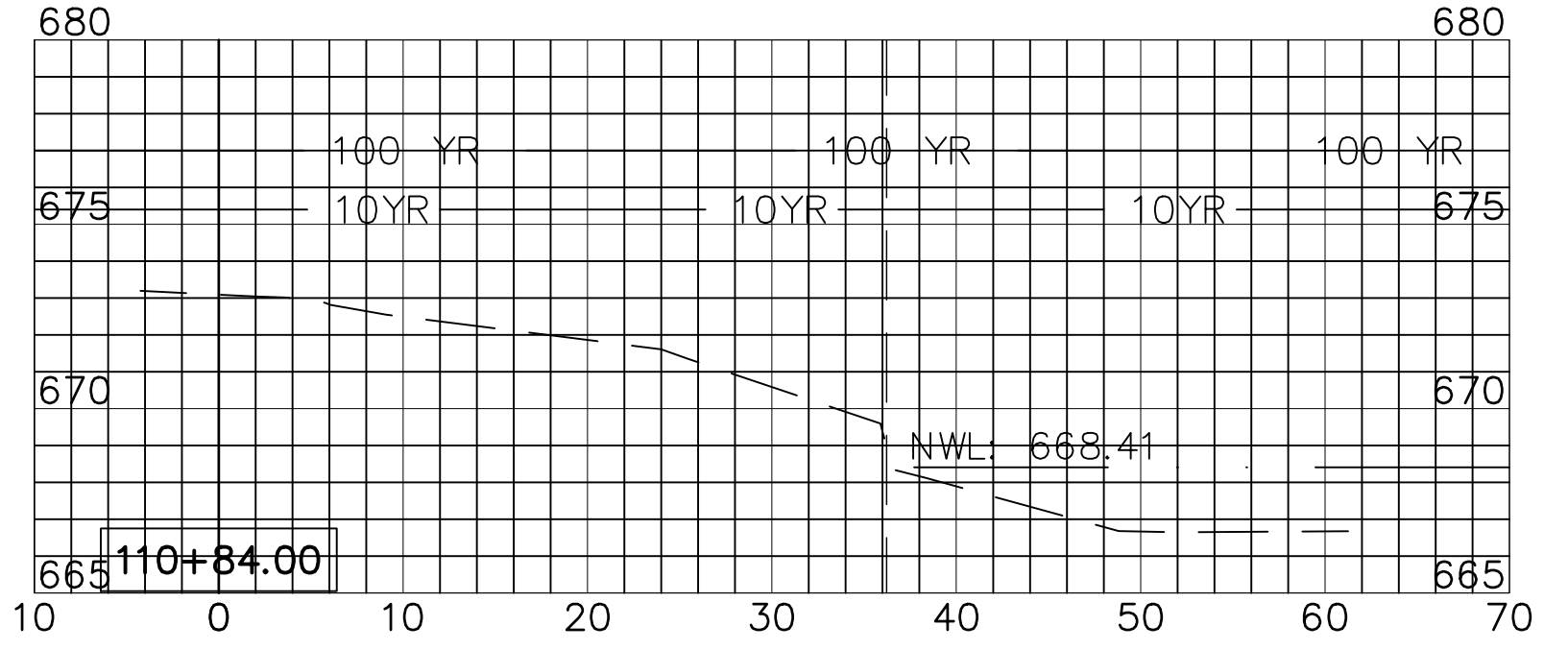
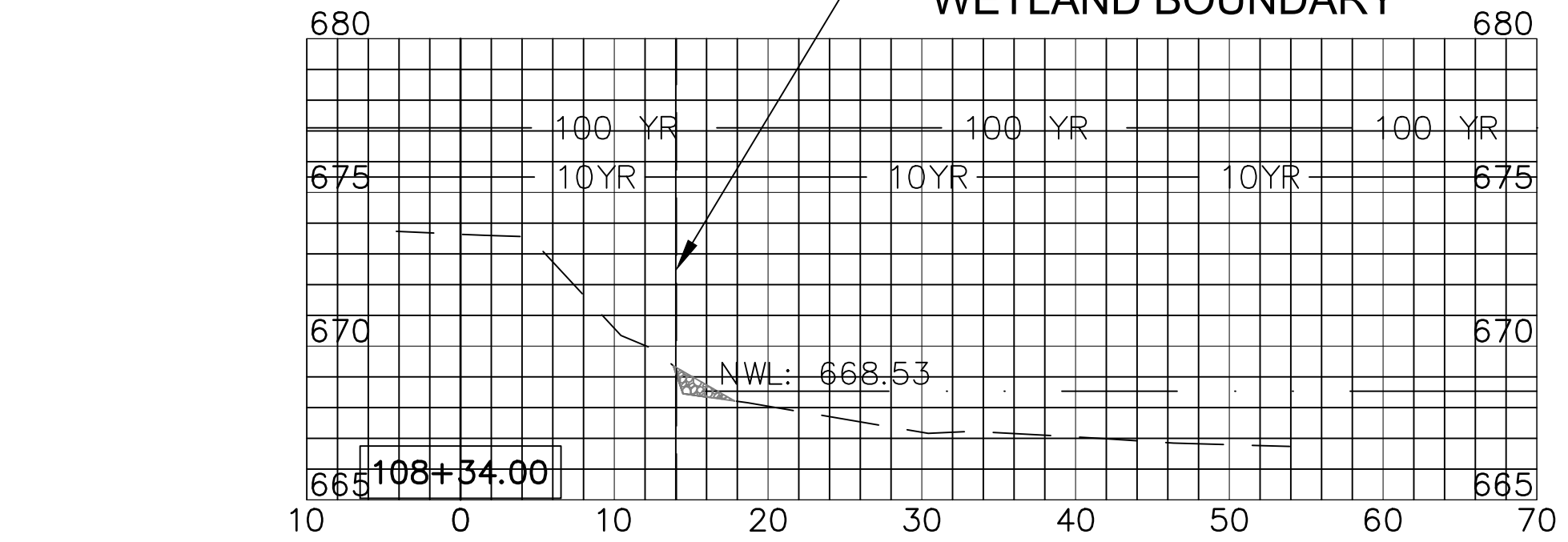
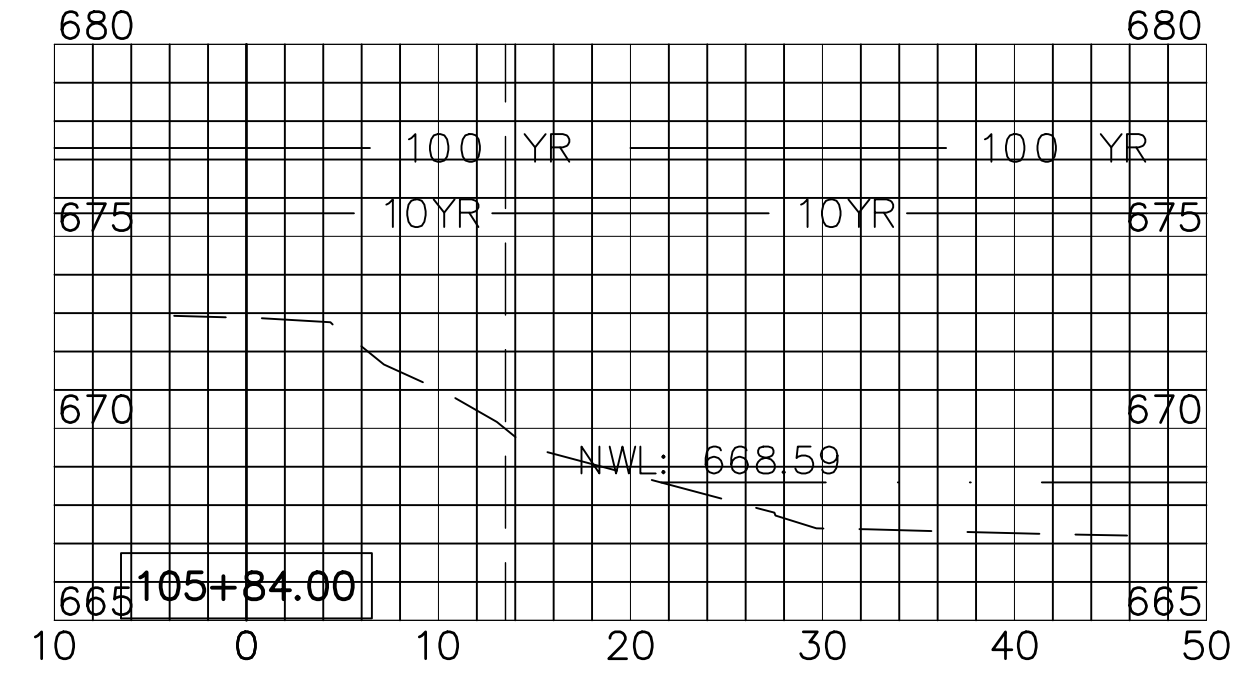
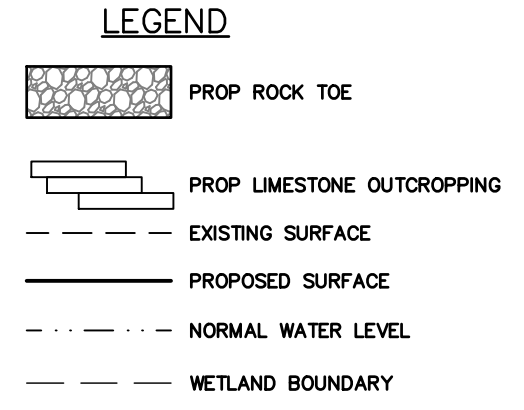
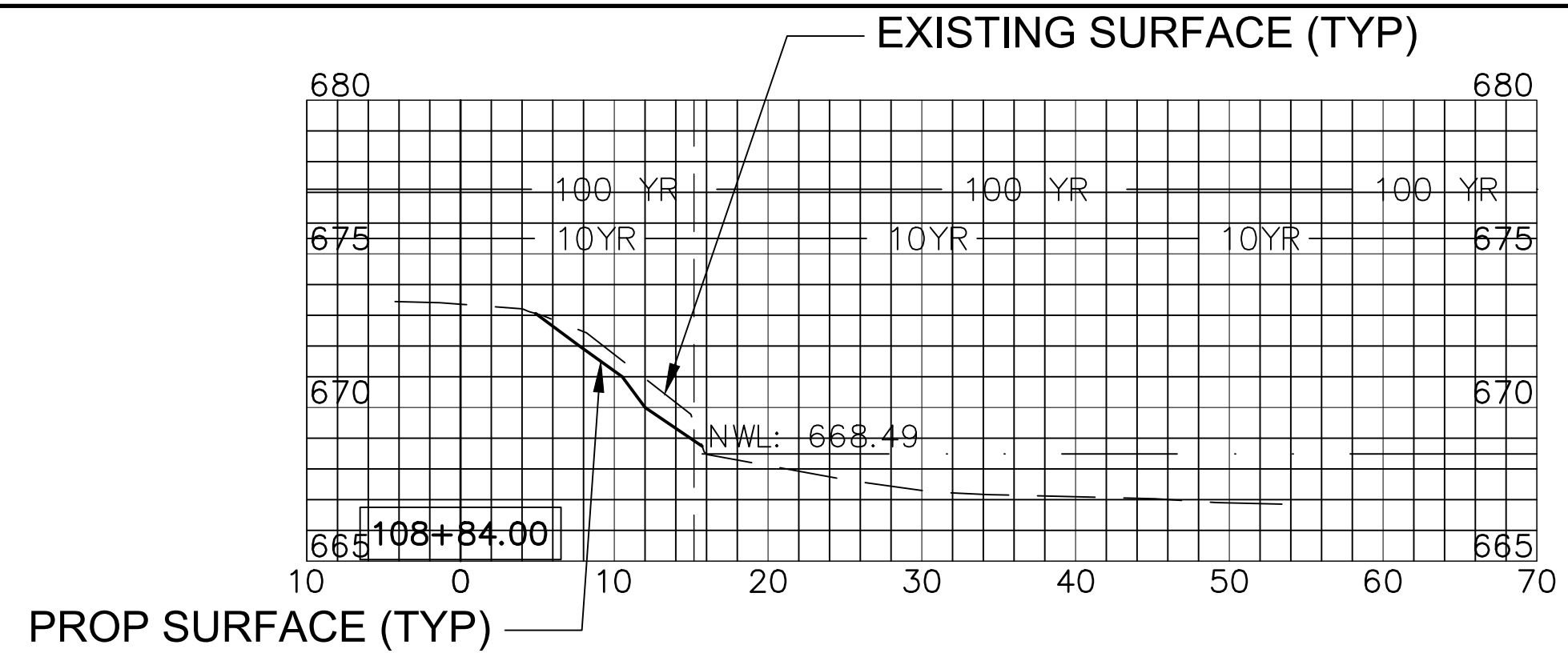
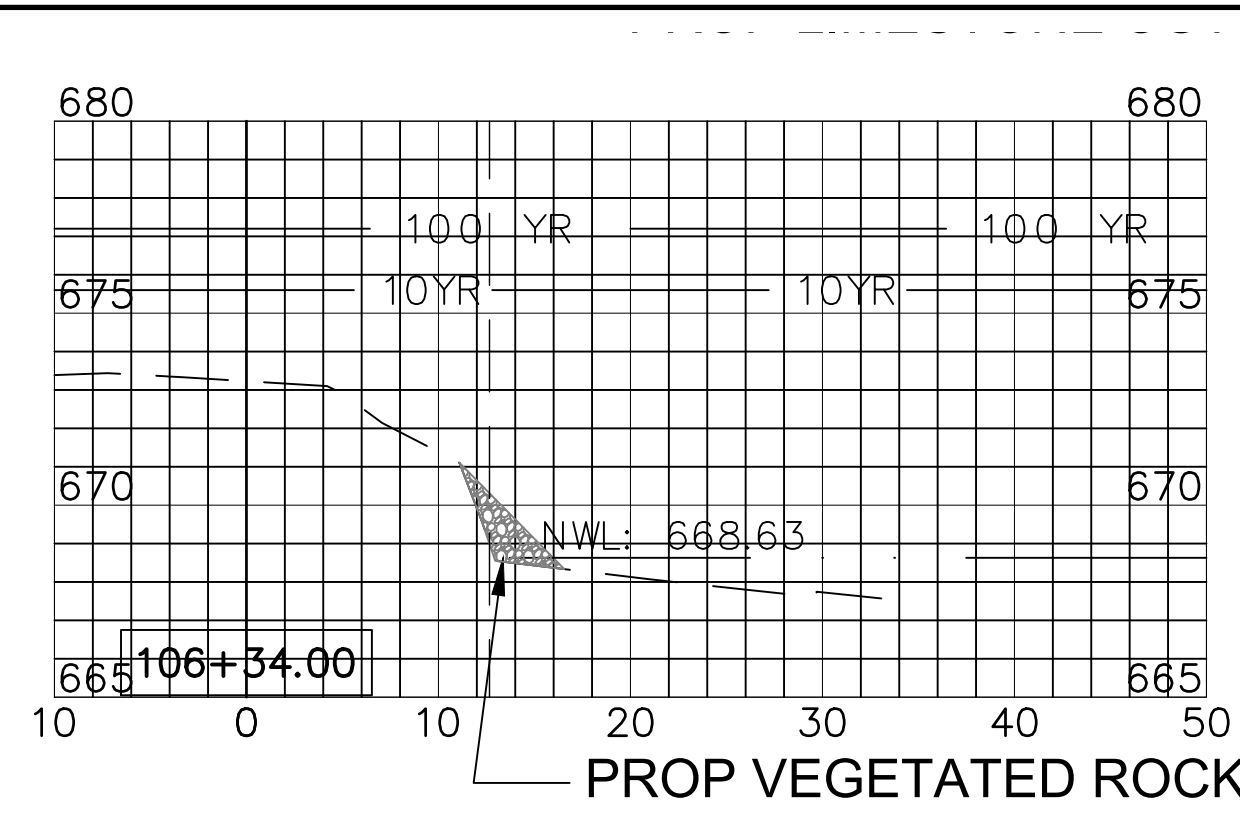
2416 GALEN DRIVE
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**WEST BRANCH DuPAGE RIVER
 STABILIZATION
 NAPERVILLE PARK DISTRICT**

TITLE:
**CROSS SECTIONS
 STA. 100+01 TO STA. 104+00**

SCALE: 1"=10'H; 1"=5'V
 DATE: July, 2024
 JOB NO: W23198
 SHEET: 9 OF ---

H:\Naperville\fordist\W23198.00 West Branch DuPage River Stabilization\CADD\W23198 River\WetlandStabilization CrossSections.dwg Updated by: achelle 7/8/2024



REVISIONS:					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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 CHECKED BY: ---
 APPROVED BY: ---



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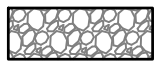

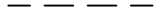



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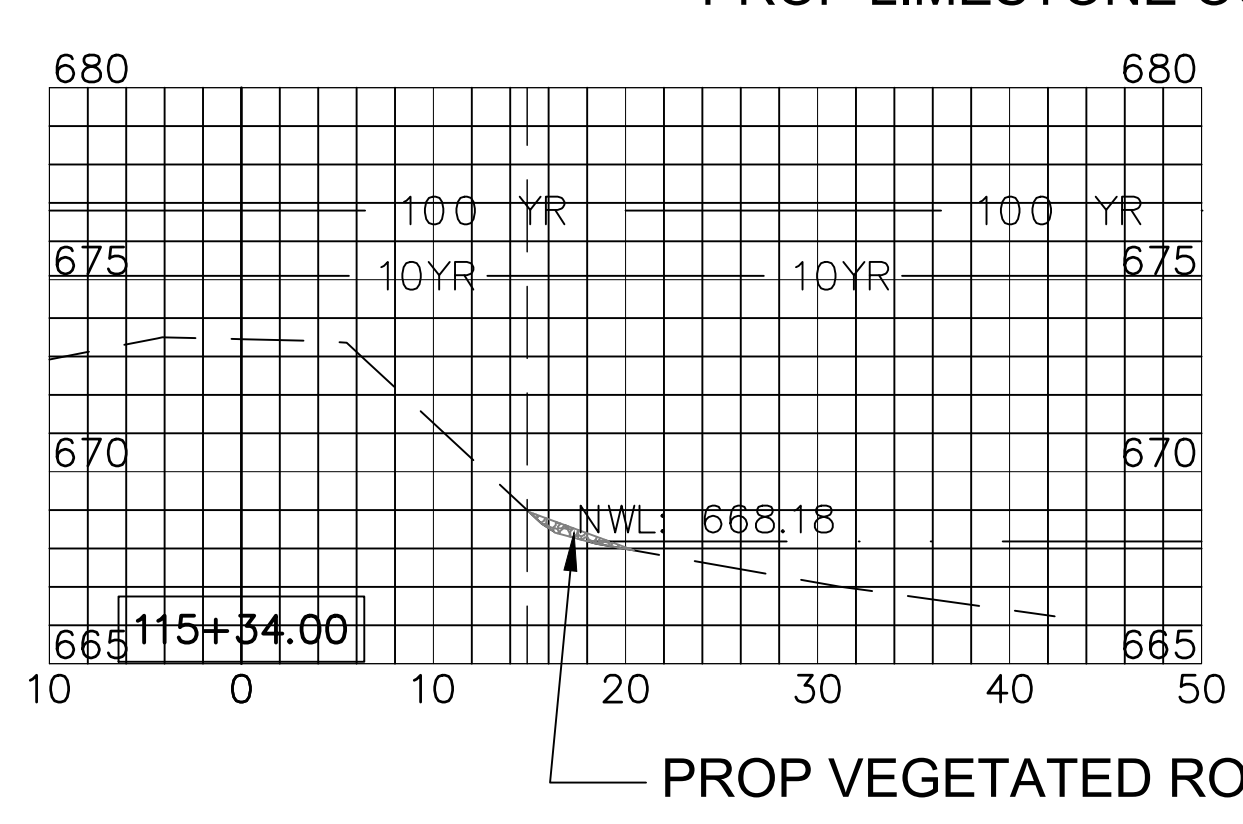
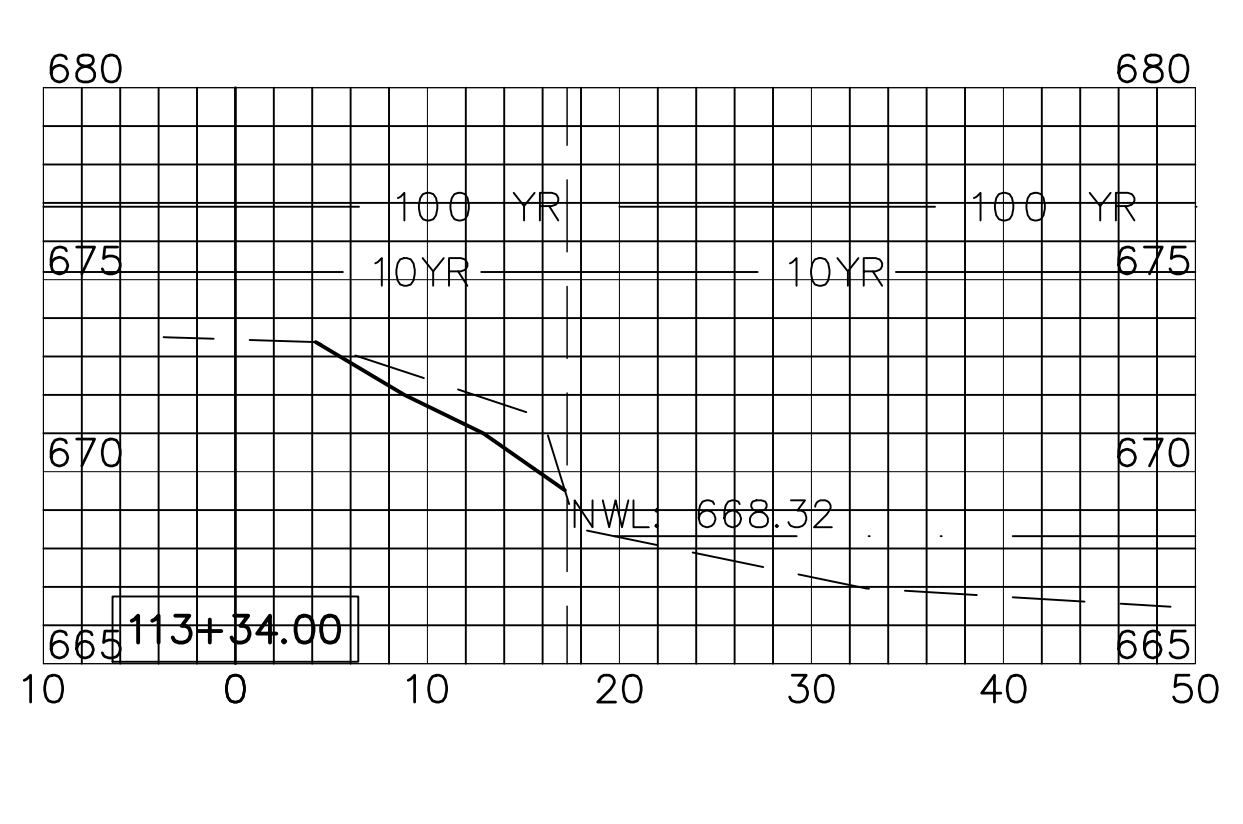
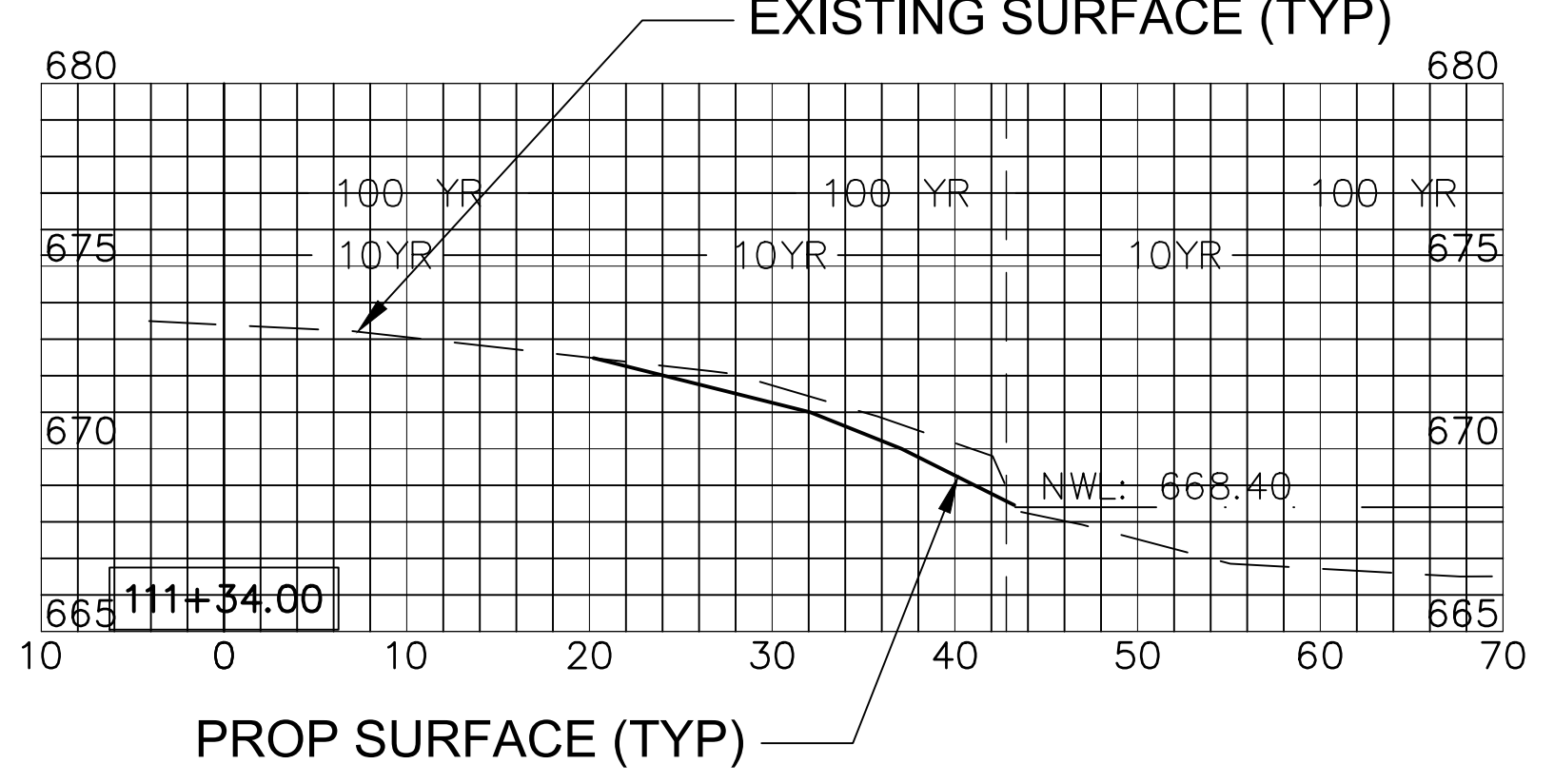
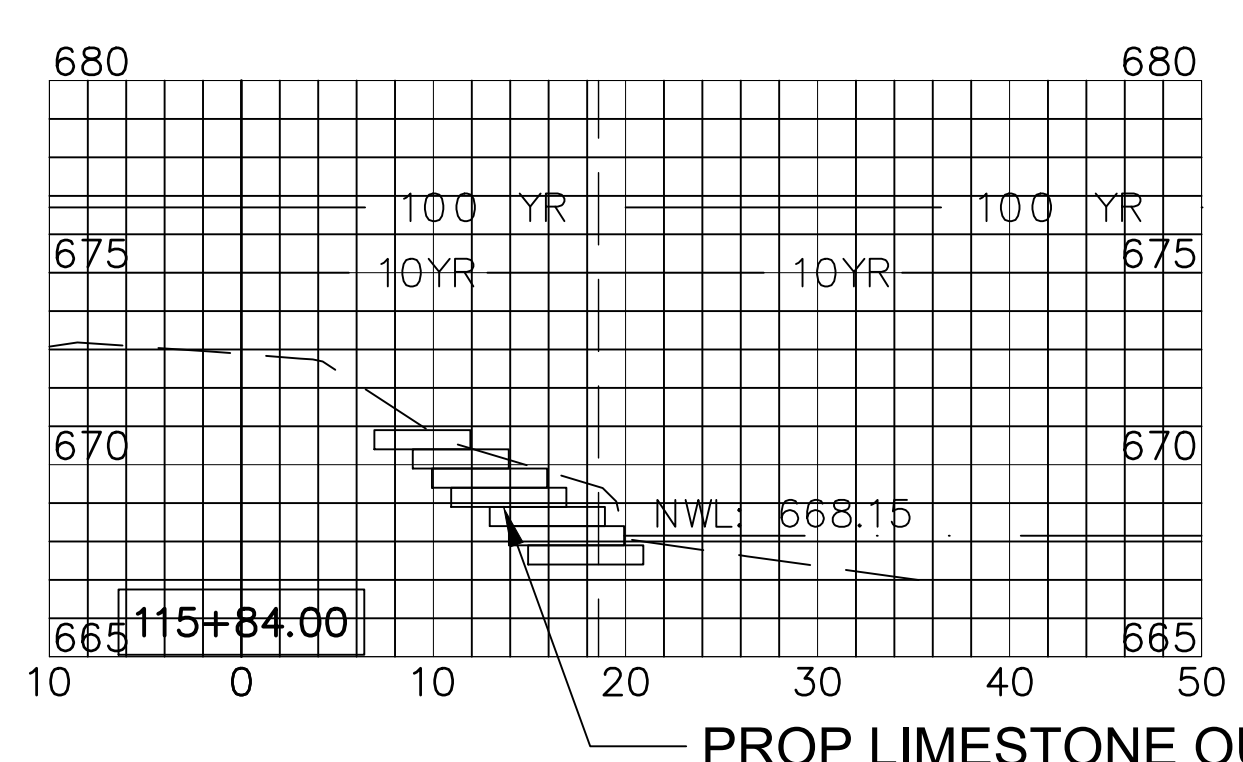
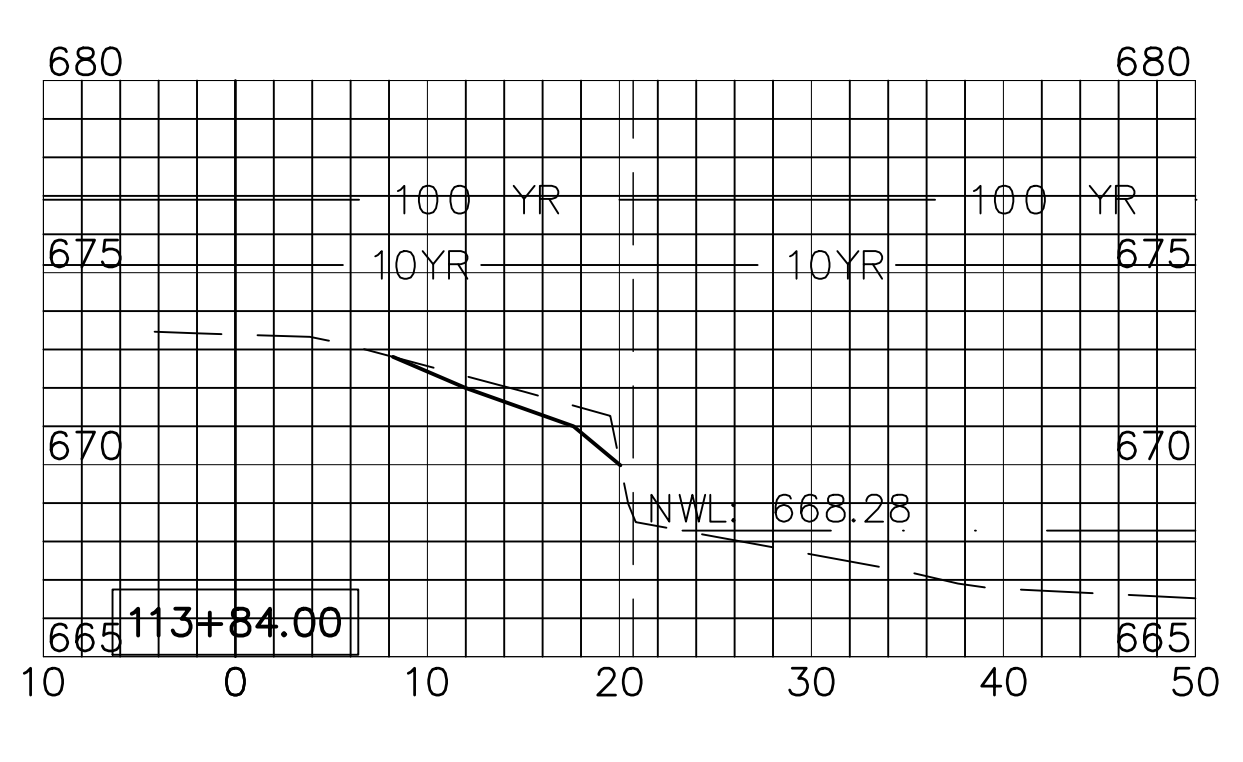
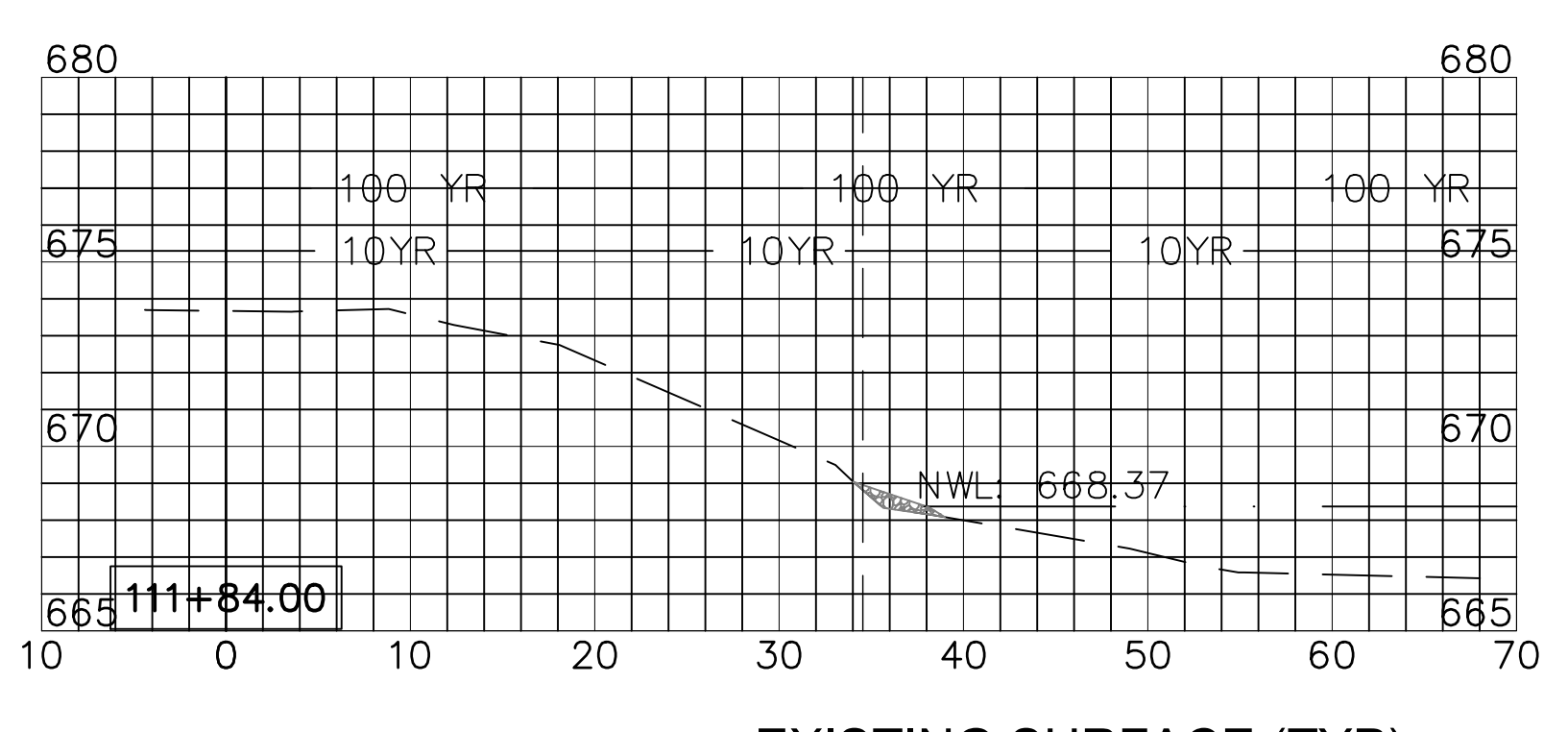
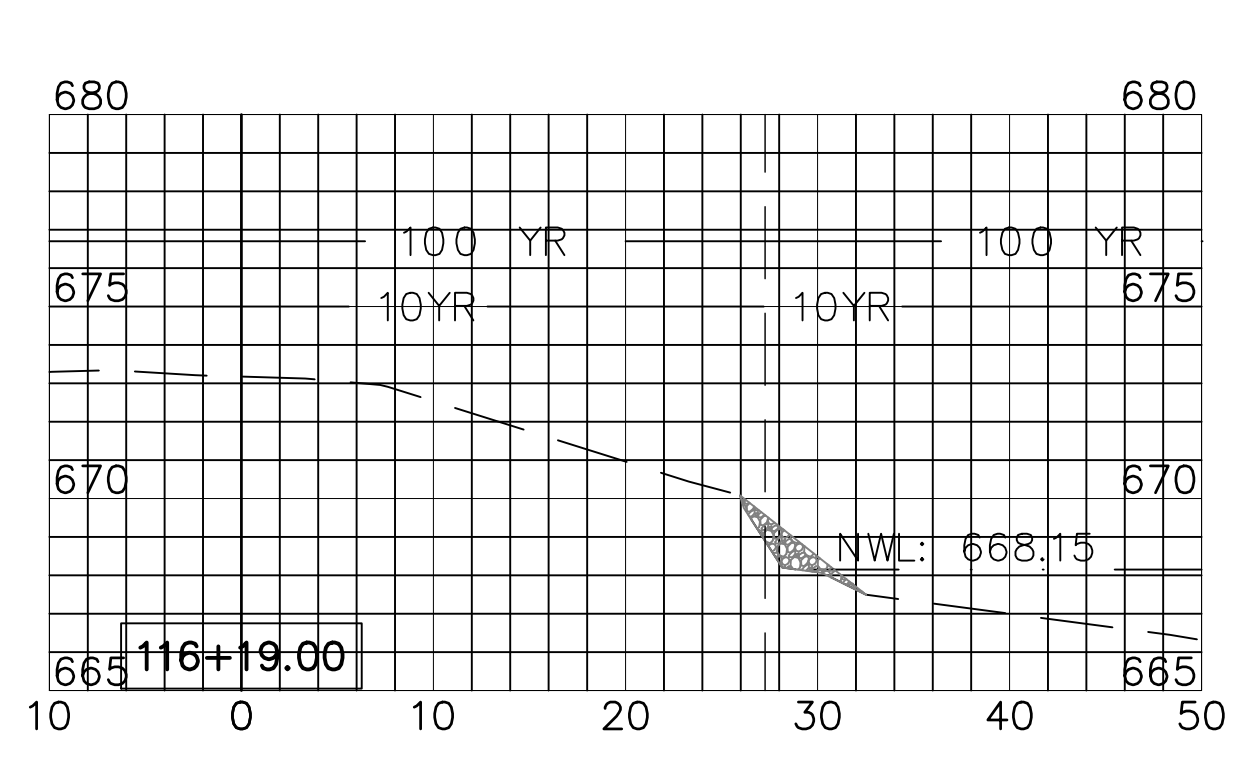
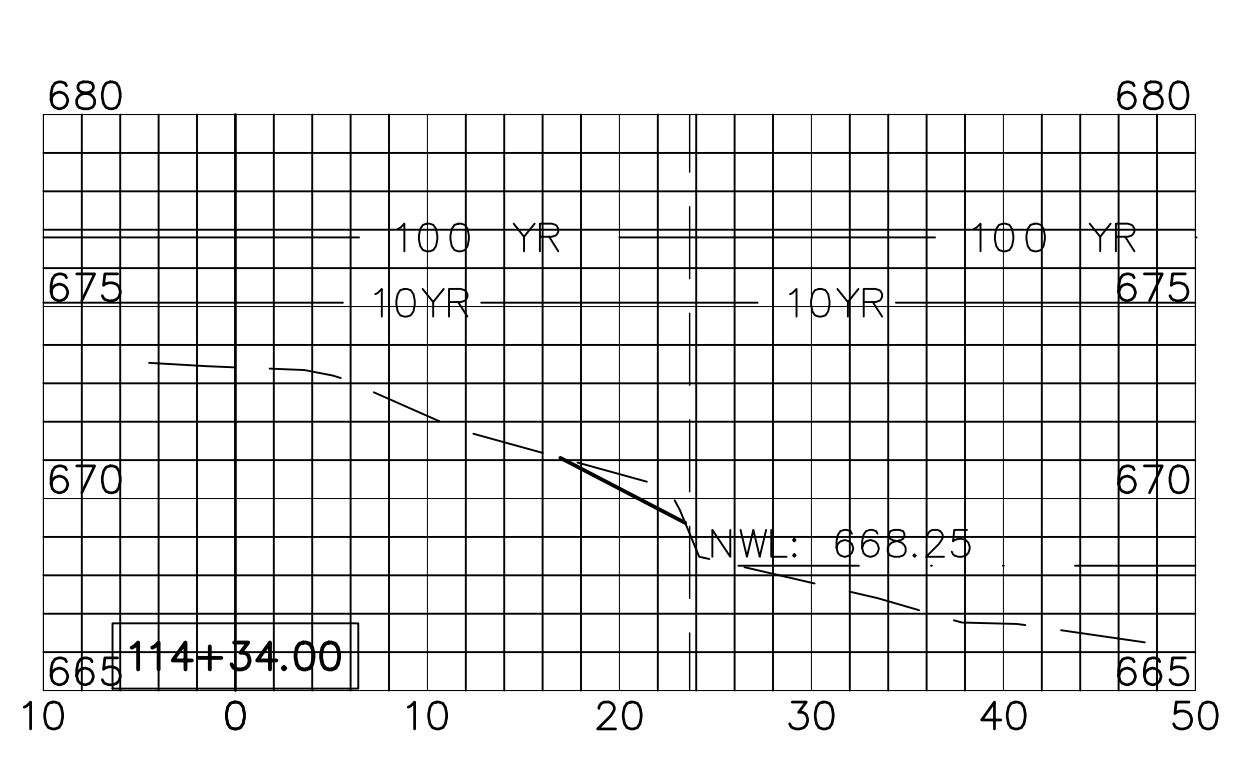
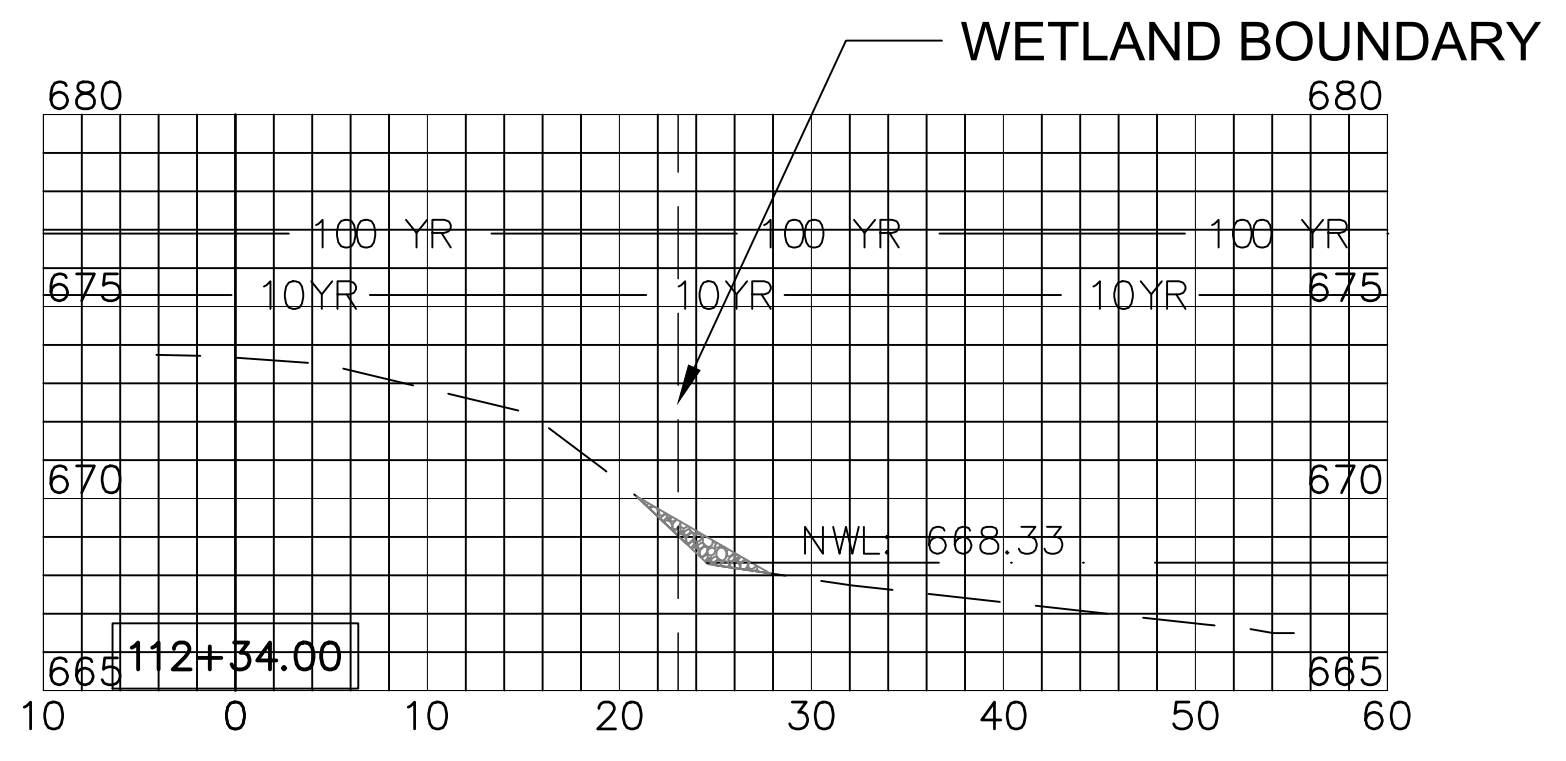
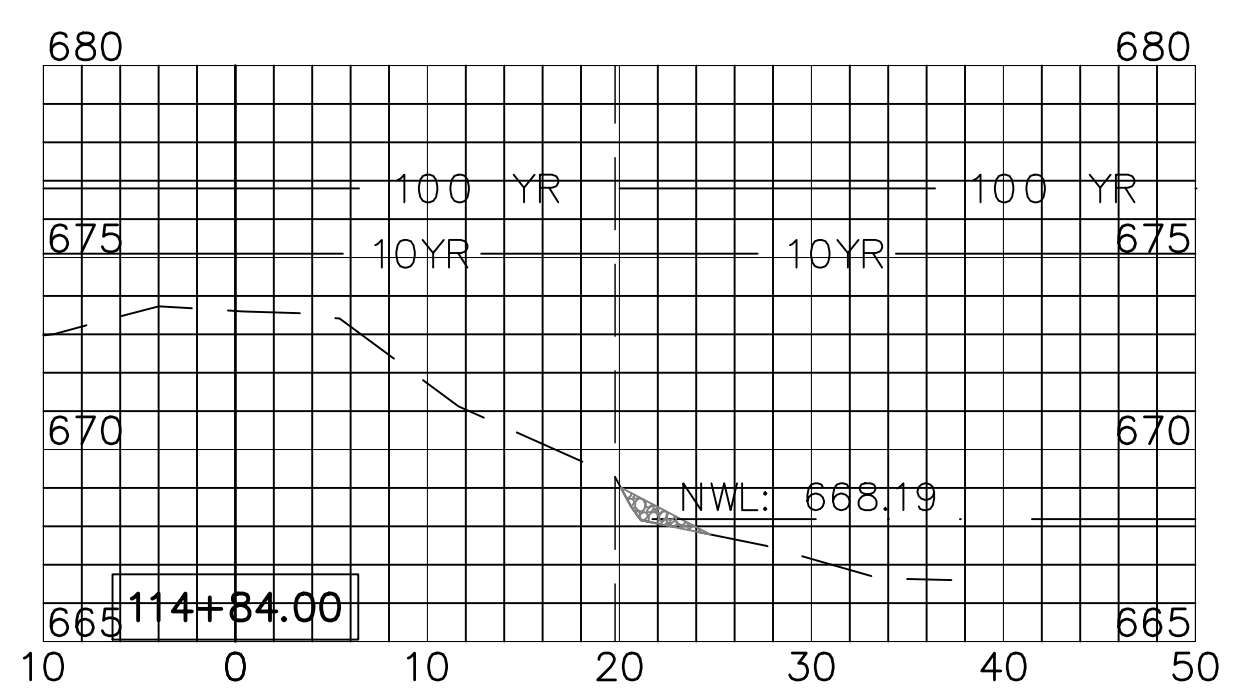
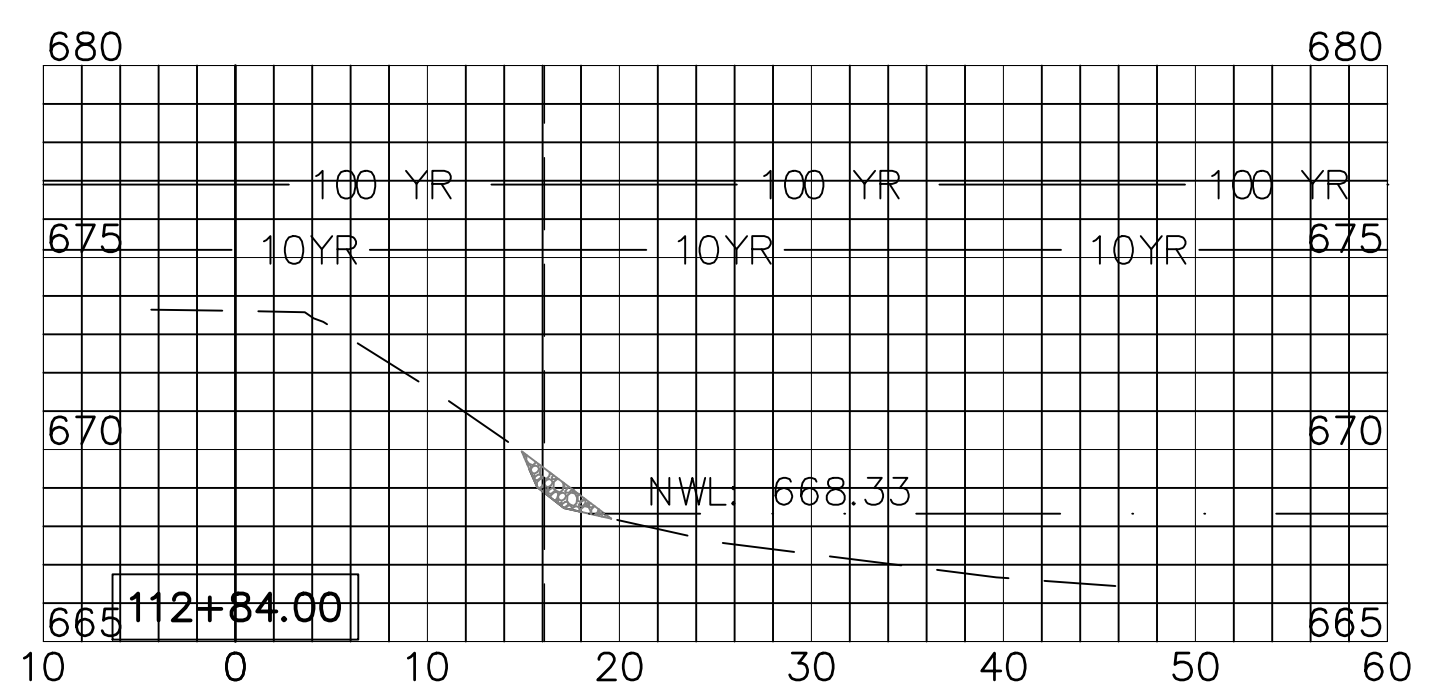
**WEST BRANCH DuPAGE RIVER
 STABILIZATION
 NAPERVILLE PARK DISTRICT**

TITLE:
**CROSS SECTIONS
 STA. 104+32.22 TO STA. 110+84**

SCALE: 1"=10'H; 1"=5'V
 DATE: July, 2024
 JOB NO: W23198
 SHEET 10 OF ---

LEGEND

-  PROP ROCK TOE
-  PROP LIMESTONE OUTCROPPING
-  EXISTING SURFACE
-  PROPOSED SURFACE
-  NORMAL WATER LEVEL
-  WETLAND BOUNDARY



REVISIONS:

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

DRAWN BY: RT
CHECKED BY: ---
APPROVED BY: ---



3S701 WEST AVENUE, SUITE 150
 WARRENVILLE, ILLINOIS 60555
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 FAX (630) 393-2152

10 S. RIVERSIDE PLAZA, SUITE 875
 CHICAGO, ILLINOIS 60606
 PHONE (312) 474-7841
 FAX (312) 474-6099

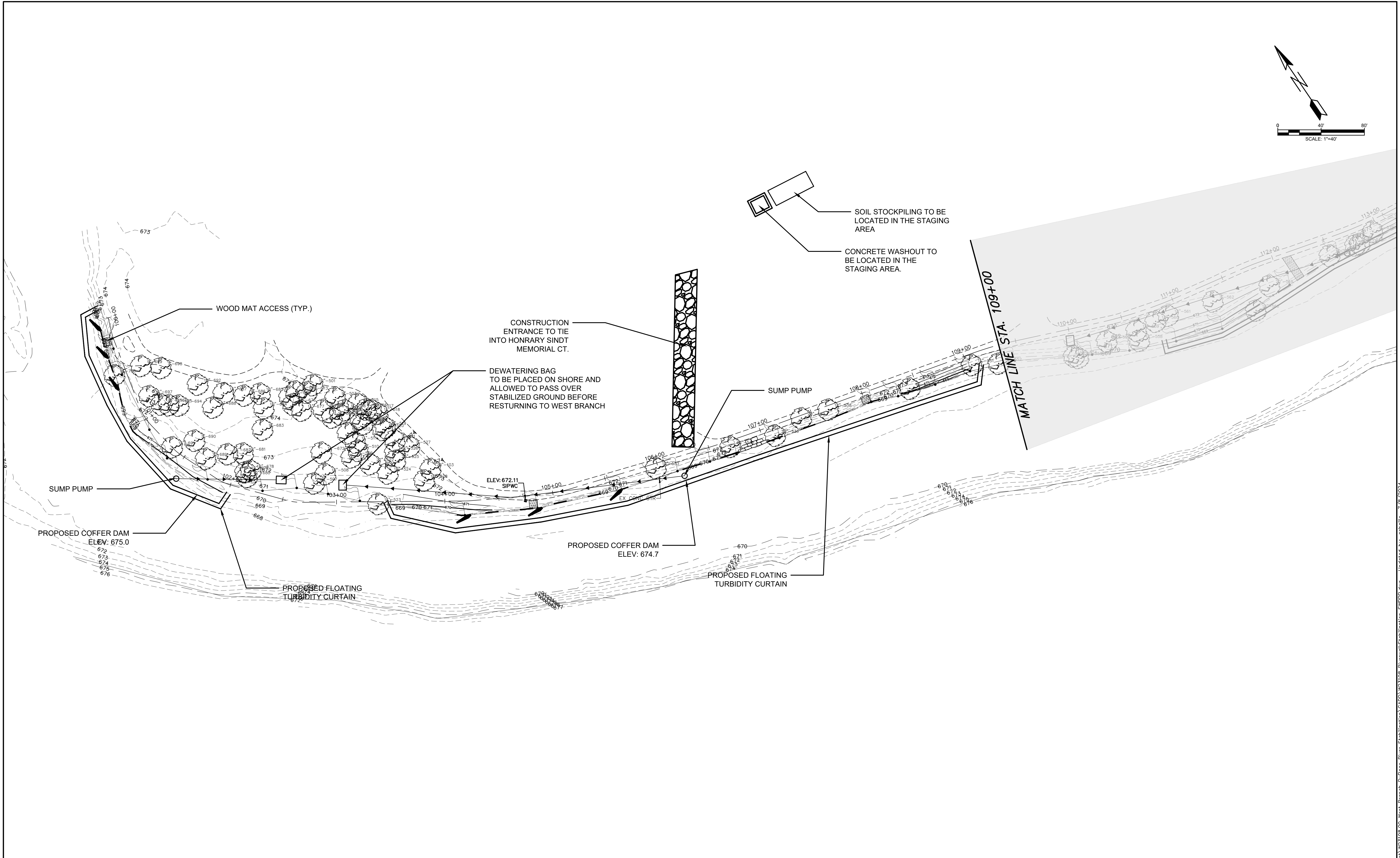
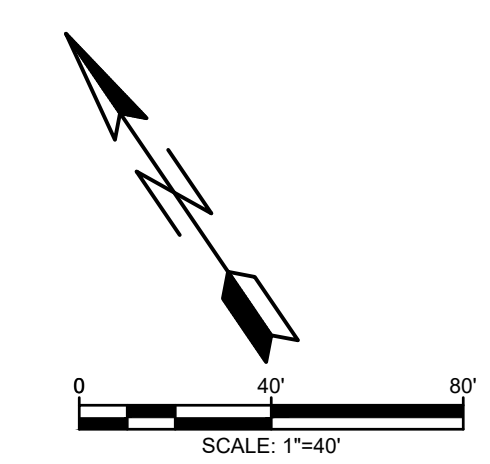
2416 GALEN DRIVE
 CHAMPAIGN, ILLINOIS 61821
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 FAX (217) 355-1902

**WEST BRANCH DuPAGE RIVER
 STABILIZATION
 NAPERVILLE PARK DISTRICT**

TITLE:
**CROSS SECTIONS
 STA. 111+34 TO STA. 116+19**

SCALE: 1"=10'H; 1"=5'V
DATE: July, 2024
JOB NO: W23198
SHEET: 11 OF ---

H: \\naperville\fordist\W23198.00 West Branch DuPage River Stabilization\CADD\W23198 River\Stabilization CrossSections.dwg Updated by: achelle 7/8/2024



REVISIONS:					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
2024/06/04	AEC	PLANS REVISED PER COMMENTS			

DRAWN BY: RT
 CHECKED BY: EP
 APPROVED BY: MM



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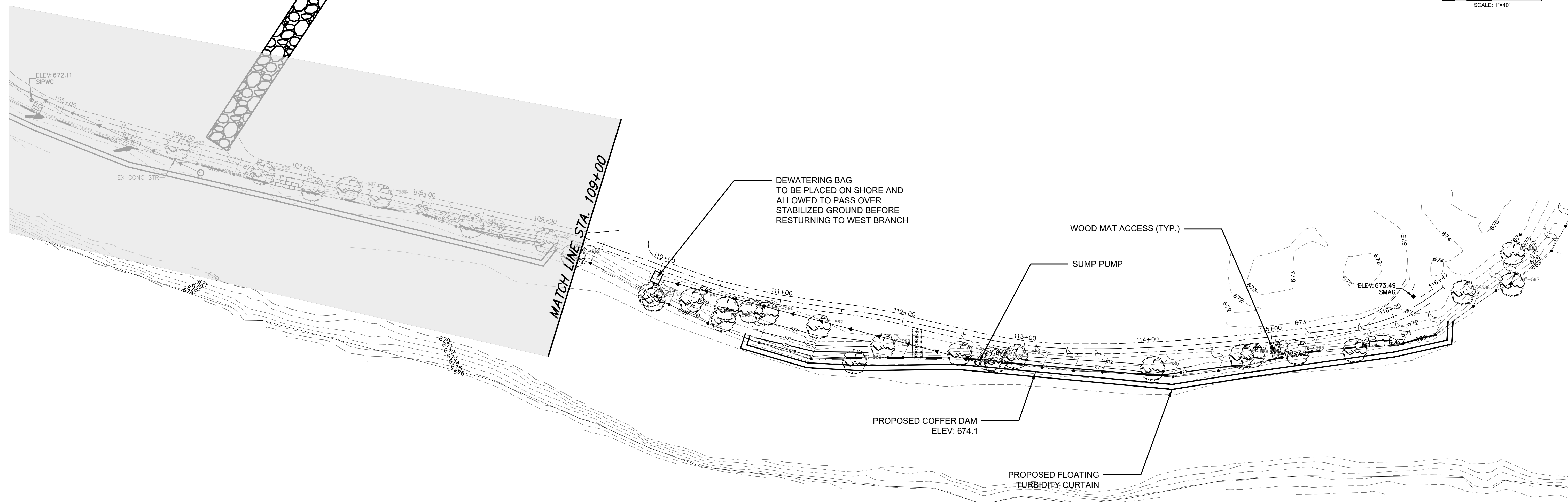
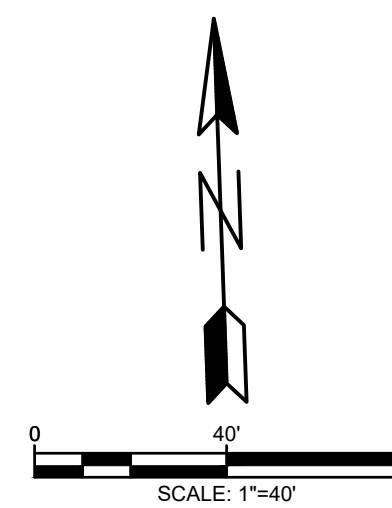
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**WEST BRANCH DuPAGE RIVER
 STABILIZATION
 NAPERVILLE PARK DISTRICT**

TITLE:
**STORMWATER POLLUTION PREVENTION PLAN
 STA. 100+00 TO STA. 109+00**

SCALE: 1" = 40'
 DATE: July, 2024
 JOB NO: W23198
 SHEET 12 OF 12

H:\Naperville\ford\dist\W23198\00 West Branch DuPage River Stabilization\CADD\W23198 RiverworkStabilization SWPPP.dwg Updated by: acnalle 7/8/2024



REVISIONS:					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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**WEST BRANCH DuPAGE RIVER
 STABILIZATION
 NAPERVILLE PARK DISTRICT**

TITLE:
**STORMWATER POLLUTION PREVENTION PLAN
 STA. 109+00 TO STA. 116+13**

SCALE: 1" = 40'
 DATE: July, 2024
 JOB NO: W23198
 SHEET 13 OF 14

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STORM WATER POLLUTION PREVENTION PLAN

THE FOLLOWING PLAN IS ESTABLISHED AND INCORPORATED IN THE PROJECT TO DIRECT THE CONTRACTOR IN THE PLACEMENT OF TEMPORARY EROSION AND SEDIMENT CONTROL SYSTEMS AND TO PROVIDE A STORM WATER POLLUTION PREVENTION PLAN FOR COMPLIANCE UNDER NPDES.

THE PURPOSE OF THIS PLAN IS TO MINIMIZE EROSION WITHIN THE CONSTRUCTION SITE AND TO LIMIT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE BY UTILIZING PROPER TEMPORARY EROSION AND SEDIMENT CONTROL SYSTEMS AND PROVIDING GROUND COVER WITHIN A REASONABLE AMOUNT OF TIME.

CERTAIN SEDIMENT CONTROL FACILITIES SHALL BE INSTALLED BY THE CONTRACTOR AT THE BEGINNING OF CONSTRUCTION. OTHER ITEMS SHALL BE INSTALLED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER ON A CASE BY CASE SITUATION DEPENDING ON THE CONTRACTOR'S SEQUENCE OF ACTIVITIES, TIME OF YEAR, AND EXPECTED WEATHER CONDITIONS.

THE CONTRACTOR SHALL INSTALL PERMANENT EROSION CONTROL SYSTEMS AND SEEDING WITHIN A TIME FRAME SPECIFIED HEREIN AND AS DIRECTED BY THE ENGINEER, THEREFORE MINIMIZING THE AMOUNT OF AREA SUSCEPTIBLE TO EROSION AND REDUCING THE AMOUNT OF TEMPORARY SEEDING. THE ENGINEER WILL DETERMINE IF ANY TEMPORARY EROSION CONTROL SYSTEMS SHOWN IN THE PLAN CAN BE DELETED AND IF ANY ADDITIONAL TEMPORARY EROSION CONTROL SYSTEMS, WHICH ARE NOT INCLUDED IN THIS PLAN, SHALL BE ADDED. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE ENGINEER AND AS SHOWN IN DOT STANDARD 280001.

SECTION 280. TEMPORARY EROSION CONTROL OF THE STANDARD SPECIFICATIONS ADDITIONALLY SUPPLEMENTS THIS PLAN.

SITE DESCRIPTION DESCRIPTION OF CONSTRUCTION ACTIVITY:

1. THE PROJECT IS LOCATED IN RIVERVIEW PARK, NAPERVILLE IL. ON THE WEST BRANCH DUPAGE RIVER

2. THE WEST BRANCH DUPAGE RIVER STABILIZATION PROJECT SHALL GENERALLY CONSIST OF THE FOLLOWING:

- 1.) INSTALLATION OF STREAMBANK STABILIZATION, STREAM BARBS, WETLAND MITIGATION AND NATURAL AREA RESTORATION, AND ASSOCIATED EROSION CONTROL MEASURES, INCLUDING IN-STREAM CONTROL MEASURES;
- 2.) TREE/BRUSH CLEARING, PLUG PLANTING, AND RESTORATION SEEDING;
- 3.) THE PROJECT ALSO INCLUDES 3 YEARS OF ECOLOGICAL MANAGEMENT, WETLAND MONITORING AND REPORTING.
- 4.) ALL OTHER COLLATERAL WORK SUCH AS RESTORATION.

DESCRIPTION OF INTENDED SEQUENCE FOR MAJOR CONSTRUCTION ACTIVITIES WHICH WILL DISTURB SOILS FOR MAJOR PORTION OF THE CONSTRUCTION SITE:

1. INSTALL COFFER DAM AND SILT SCREEN.
2. INSTALL ROCK TOE, STREAM BARBS, STONE OUTCROPPINGS AND RE-GRADE BANK.
3. SITE SHALL BE TEMPORARILY STABILIZED IMMEDIATELY FOLLOWING MASS GRADING COMPLETION.
4. FINE GRADING SHALL BE PERFORMED.
5. THE SITE SHALL BE SEEDED AND STABILIZED WITH BIODEGRADABLE EROSION CONTROL MAT UPON COMPLETION OF THE PROJECT.
6. TEMPORARY EROSION CONTROL MEASURES WILL BE REMOVED FOLLOWING FINAL STABILIZATION.

AREA OF CONSTRUCTION SITE:

THE TOTAL AREA OF THE CONSTRUCTION SITE IS ESTIMATED TO BE 1.61 ACRES BY WHICH 1.61 ACRES WILL BE DISTURBED BY EXCAVATION, GRADING, AND OTHER ACTIVITIES.

OTHER REPORTS, STUDIES AND PLANS WHICH AID IN THE DEVELOPMENT OF THE STORM WATER POLLUTION PREVENTION PLAN AS REFERENCED DOCUMENTS:

1. INFORMATION OF THE SOILS AND TERRAIN WITHIN THE SITE WAS OBTAINED FROM TOPOGRAPHIC SURVEYS AND SOIL BORINGS THAT WERE UTILITIES FOR THE DEVELOPMENT OF THE PROPOSED TEMPORARY EROSION AND SEDIMENT CONTROL SYSTEMS.
2. PROJECT PLAN DOCUMENTS, SPECIFICATIONS AND SPECIAL PROVISIONS, AND PLAN DRAWINGS INDICATING DRAINAGE PATTERNS AND APPROXIMATE SLOPES ANTICIPATED AFTER GRADING ACTIVITIES WERE UTILIZED FOR THE PROPOSED PLACEMENT OF THE TEMPORARY EROSION CONTROL SYSTEMS.

DRAINAGE TRIBUTARIES AND SENSITIVE AREAS RECEIVING RUNOFF FROM THIS CONSTRUCTION SITE:

1. THE SITE DRAINS INTO WEST BRANCH DUPAGE RIVER.

THIS PLAN HAS BEEN PREPARED TO COMPLY WITH THE PROVISIONS OF THE NPDES PERMIT NUMBER ILR10 ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY FOR STORM WATER DISCHARGES FROM CONSTRUCTION SITE ACTIVITIES.

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

ENGINEER: MARTY J. MICHALSKO, P.E.

DATE _____

CONTRACTOR'S CERTIFICATION

"I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT (LR 10) THAT AUTHORIZES THE STORMWATER DISCHARGES ASSOCIATED WITH ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

GENERAL CONTRACTOR

SIGNATURE _____ TITLE _____ DATE _____

COMPANY _____

OWNER'S CERTIFICATION

"I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."

OWNER

SIGNATURE _____ TITLE _____ DATE _____

COMPANY _____

SEDIMENT EROSION CONTROL AND POLLUTION PREVENTION NOTES:

1. DURING CONSTRUCTION, AREAS OUTSIDE THE CONSTRUCTION LIMITS SHALL BE PROTECTED. THE CONTRACTOR SHALL NOT USE THIS AREA FOR STAGING, PARKING OF VEHICLES OF CONSTRUCTION EQUIPMENT, STORAGE OF MATERIALS OR OTHER CONSTRUCTION RELATED ACTIVITIES.
2. CONSTRUCTION EQUIPMENT SHALL BE STORED AND FUELED ONLY AT DESIGNATED LOCATIONS. ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTROL ANY POLLUTANT IN ACCORDANCE WITH EPA WATER QUALITY REGULATIONS. LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.
3. TEMPORARY SEDIMENT CONTROL SYSTEMS SHALL BE LEFT IN PLACE WITH PROPER MAINTENANCE UNTIL PERMANENT EROSION CONTROL IS IN PLACE AND WORKING PROPERLY AND ALL PERMANENT VEGETATION IS GROWING AND THRIVING.
4. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO START OF CONSTRUCTION.
5. ALL EROSION CONTROL MEASURES MUST BE INSPECTED WEEKLY AND AFTER EACH 1/2" RAIN EVENT.
6. THE EROSION CONTROL BLANKET AND/OR STRAW MULCH WITH NETTING (DEPENDING ON SLOPE, SLOPE LENGTH AND FLOW RATES) SHALL BE INSTALLED ON ALL SLOPES AND IN CRITICAL AREAS (I.E. POND PERIMETER, BERMS, ETC.) IMMEDIATELY UPON FINAL GRADING.
7. WHEN EROSION CONTROL IS COMPLETE, PERMANENT STABILIZATION SHALL OCCUR WITHIN 7 DAYS OF COMPLETION, AND IN AREAS WHERE WORK HAS TEMPORARILY CEASED FOR 14 DAYS OR MORE, TEMPORARY STABILIZATION SHALL OCCUR BY THE 7TH DAY AFTER WORK HAS CEASED.
8. WINTER SHUTDOWN SHALL BE ADDRESSED EARLY IN THE FALL GROWING SEASON SO THAT SLOPES AND OTHER BARE EARTH AREAS MAY BE STABILIZED WITH TEMPORARY AND/OR PERMANENT VEGETATIVE COVER FOR PROPER EROSION AND SEDIMENT CONTROL.
9. ALL ADJACENT STREETS MUST BE KEPT CLEAR OF DEBRIS. INSPECTED DAILY AND CLEANED WHEN NECESSARY AND AS DIRECTED BY ENGINEER.
10. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN THE MOST RECENT ILLINOIS URBAN MANUAL.
11. THE KANE-DUPAGE SOIL AND WATER CONSERVATION DISTRICT (KDSWCD) MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.
12. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
13. PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING BUT NOT LIMITED TO, ADDITIONAL PHASES OF DEVELOPMENT AND OFF-SITE BORROW OR WASTE AREAS) A SUPPLEMENTARY EROSION CONTROL PLAN SHALL BE SUBMITTED TO THE OWNER FOR REVIEW BY THE KDSWCD.
14. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE KDSWCD.
15. NO WORK SHALL BE PERFORMED IN FLOWING WATER WORK IN AND NEAR THE CRITICAL AREAS SHOULD BE ISOLATED FROM CONCENTRATED FLOWS OR STREAM FLOW. ONCE WORK IN THIS AREA BEGINS, PRIORITY SHALL BE GIVEN TO THE COMPLETION OF THE WORK AND FINAL STABILIZATION OF ALL DISTURBED AREAS.
16. DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO SEDIMENT BASINS OR SILT TRAPS. DEWATERING SEDIMENT LADEN WATER DIRECTLY INTO STREAMS, WETLANDS, FIELD TILES, OR STORMWATER STRUCTURES IS PROHIBITED.
17. IT IS THE RESPONSIBILITY OF THE LANDOWNER AND/OR GENERAL CONTRACTOR TO INFORM ANY SUB-CONTRACTOR(S) WHO MAY PERFORM WORK ON THIS PROJECT, OF THE REQUIREMENTS IN IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS AND ASSURE COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.
18. 14. WHERE THERE IS LOW, INTERMITTENT AMOUNTS OF DEWATERING, PUMPS WITH FILTRATION BAGS SHALL BE USED. FILTRATION BAGS SHALL BE ATTACHED TO PUMP DISCHARGE WITH A SECONDARY CONTAINMENT OR ON A STABILIZED AREA. FILTER BAGS SHALL NOT BE PLACED, WHOLE OR PARTIALLY, WITHIN AQUATIC AREAS (WETLANDS, STREAMS, ETC.) THE MATERIAL FOR THE FILTRATION BAG SHALL MEET THE REQUIREMENTS OF MATERIAL SPECIFICATION 592 GEOTEXTILE OF THE ILLINOIS URBAN MANUAL, TABLE 2, CLASS 1 WITH A MINIMUM TENSILE STRENGTH OF 200 LBS. THE FILTRATION BAG SHALL BE SIZED PER MANUFACTURER RECOMMENDATIONS AND BASED ON THE SIZE OF THE PUMP.
19. EXCAVATED AREAS SHALL BE PERMANENTLY SEED OR MULCHED IMMEDIATELY AFTER FINAL GRADING. IF NOT, THEY SHALL BE TEMPORARILY SEEDED IF NO CONSTRUCTION ACTIVITY IN THE AREA IS PLANNED FOR SEVEN (7) DAYS.
20. TEMPORARY EROSION CONTROL SEEDING SHALL BE APPLIED AT A RATE OF 50 LBS/ACRES.
21. CONSTRUCTION IS COMPLETE AFTER ACCEPTANCE BY THE OWNER. MAINTENANCE UP TO THIS DATE WILL BE BY THE CONTRACTOR.
22. NO STOCKPILING IS PERMITTED WITHIN THE FLOODPLAIN LIMITS. STOCKPILES THAT ARE TO REMAIN IN PLACE MORE THAN THREE DAYS SHALL BE PROVIDED WITH SOIL EROSION AND SEDIMENT CONTROL MEASURES.
23. SEDIMENT COLLECTED DURING CONSTRUCTION BY THE VARIOUS TEMPORARY SEDIMENT CONTROL SYSTEMS SHALL BE DISPOSED OF ON THE SITE ON A REGULAR BASIS, AS DIRECTED BY THE ENGINEER. THE COST OF THIS MAINTENANCE SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR EARLY REMOVAL.
24. ALL DROP INLETS ON AND ADJACENT TO THE SITE MUST HAVE A SEDIMENT TRAPPING OR CONTAINMENT DEVICE INSTALLED DURING CONSTRUCTION ACTIVITIES. FILTER FABRIC ON ITS OWN IS NOT AN APPROVED METHOD. A MANUFACTURER'S SPEC SHOULD BE USED FOR PREFABRICATED DROP INLET PROTECTION AND SHOULD BE AS THE ILLINOIS URBAN MANUAL STANDARD 861 FOR INLET PROTECTION.
25. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL STABILIZATION IS ACHIEVED. TRAPPED SEDIMENT AND OTHER DISTURBED SOILS RESULTING FROM TEMPORARY MEASURES SHALL BE PROPERLY DISPOSED OF PRIOR TO PERMANENT STABILIZATION.
26. ALL EROSION AND SEDIMENT CONTROL PRODUCTS FURNISHED SHALL BE SPECIFICALLY RECOMMENDED BY THE MANUFACTURER FOR THE USE PLANNED IN THE EROSION AND SEDIMENT CONTROL PLAN AND USE OF THE PROJECT. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A NOTARIZED CERTIFICATION BY THE PRODUCER STATING THE INTENDED USE OF THE PRODUCT AND THAT THE PHYSICAL PROPERTIES REQUIRED FOR THIS APPLICATION ARE MET OR EXCEEDED. THE CONTRACTOR SHALL PROVIDE MANUFACTURER INSTALLATION PROCEDURES TO FACILITATE THE ENGINEER IN CONSTRUCTION INSPECTION.
27. THE DRAWINGS, SPECIFICATIONS AND SPECIAL PROVISIONS WILL ENSURE THAT EXISTING VEGETATION IS PRESERVED WHERE ATTAINABLE AND DISTURBED PORTIONS OF THE SITE WILL BE STABILIZED. STABILIZATION PRACTICES INCLUDE TEMPORARY SEEDING, PERMANENT SEEDING, MULCHING, PROTECTION OF TREES, PRESERVATION OF NATURAL VEGETATION, AND OTHER APPROPRIATE MEASURES AS DIRECTED BY THE ENGINEER. SEEDING MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN CRITICAL AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
- a. AREAS OF EXISTING VEGETATION, WOOD AND GRASSLANDS, OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE IDENTIFIED BY THE ENGINEER FOR PRESERVING AND SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITIES.
- b. DEAD, DISEASED, OR UNSUITABLE VEGETATION WITHIN THE SITE SHALL BE REMOVED AS DIRECTED BY THE ENGINEER, ALONG WITH REQUIRED TREE REMOVAL.
- c. BARE AND SPARSELY VEGETATED GROUND IN HIGH ERODIBLE AREAS AS DETERMINED BY THE ENGINEER SHALL BE TEMPORARILY SEEDED AT THE BEGINNING OF CONSTRUCTION WHERE NO CONSTRUCTION ACTIVITIES ARE EXPECTED WITHIN SEVEN (7) DAYS.
- d. IMMEDIATELY AFTER TREE REMOVAL IS COMPLETED, AREAS WHICH ARE HIGHLY ERODIBLE AS DETERMINED BY THE ENGINEER, SHALL BE TEMPORARILY SEEDED WHEN NO CONSTRUCTION ACTIVITIES ARE EXPECTED WITHIN SEVEN (7) DAYS.
28. ESTABLISHMENT OF THESE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES WILL HAVE ADDITIONAL BENEFITS TO THE PROJECT. DESIRED GRASS SEED WILL BECOME ESTABLISHED IN THESE AREAS AND WILL SPREAD SEEDS ONTO THE CONSTRUCTION SITE UNTIL PERMANENT SEEDING/MOWING AND OVER SEEDING CAN BE COMPLETED.
29. THE CONTRACTOR SHALL INSTALL A DEWATERING/FILTRATION OPERATION ONCE WORK COMMENCES. THE DEWATERING OPERATION SHOULD INCLUDE STABILIZED INTAKE/OUTLET LOCATIONS, APPROVED FILTRATION DEVICE, AND VELOCITY DISSIPATION AT THE OUTLET. THE EXACT METHODS SHOULD BE SUBMITTED TO KDSWCD FOR REVIEW WITHIN ONE WEEK BEFORE THE IN-STREAM WORK IS PLANNED TO BEGIN.
30. THE IN-STREAM WORK SHALL BE COMPLETED AND THE ENTIRE SYSTEM, INCLUDING SIDE SLOPES, OF WEST BRANCH DUPAGE RIVER RESTORED AND STABILIZED BEFORE THE COFFERDAMS ARE REMOVED.
31. ALL ADJACENT STREETS MUST BE KEPT CLEAR OF DEBRIS. STREETS MUST BE INSPECTED DAILY AND CLEANED WHEN NECESSARY.
32. PRIORITY SHALL BE GIVEN TO THE COMPLETION AND STABILIZATION OF THE POND AREAS. WORK IN THESE AREAS SHALL NOT BE PROLONGED IN ATTEMPT THAT ALL FINAL GRADING AND STABILIZATION CAN TAKE PLACE AT ONE TIME.
33. COMPLETED SLOPES SHALL BE SEEDED AND MULCHED (OR BLANKETED, IF APPLICABLE) AS THE EXCAVATION PROCEEDS TO THE EXTENT CONSIDERED DESIRABLE AND PRACTICAL. PERMANENT SEEDING SHALL BE USED WHENEVER POSSIBLE. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR PROLONG FINAL GRADING AND SHAPING SO THAT THE ENTIRE PROJECT CAN BE PERMANENTLY SEED AT ONE TIME.
34. THE SITE SHOULD BE PHASED IN A WAY THAT REDUCES THE AMOUNT OF STRIPPED, UNSTABILIZED AREAS WITHIN THE SITE AT ANY ONE TIME. MASS GRADING THE ENTIRE SITE SHOULD BE AVOIDED AS TO PREVENT EROSION ON SITE AND SEDIMENTATION ISSUES DOWNSTREAM.
35. PRIOR TO RELEASE OF THE CREEK FLOW INTO THE NEWLY CREATED CHANNEL, THE CHANNEL BOTTOM AND BANKS MUST BE ADEQUATELY STABILIZED WITH VEGETATION OR A PRE-APPROVED ALTERNATIVE MEASURE TO WITHSTAND THE ERODIVE FORCES OF THE ORIGINAL CREEK FLOW. A MEETING WITH ALL PERTINENT PARTIES, INCLUDING THE KDSWCD, SHALL BE HELD PRIOR TO ANY CREEK RELEASES TO DETERMINE THE READINESS OF THE CREEK.
36. ONCE THE CONTRIBUTING AREA OF EACH SEDIMENTATION BASIN IS STABILIZED, THE BASIN NEEDS TO BE CLEANED OUT AND THE FINAL PROPOSED GRADE MUST BE ACHIEVED.
37. FOR INSTALLATION OF ALL FLARED END SECTIONS IN WETLAND OR RIPARIAN AREAS, WORK IN OR NEAR THE WETLAND MUST BE CONDUCTED IN LOW OR NO FLOW CONDITIONS. THE WORK AREA TEMPORARILY STABILIZED AT THE END OF EACH DAY, AND THE UPSTREAM RECEIVING AREA STABILIZED BEFORE THE PIPE IS PUT "ONLINE" TO THE WETLAND.
38. BARRIER PROTECTION SHALL BE PLACED AT THE LIMITS OF SOIL DISTURBANCE FOR ALL UNDISTURBED WETLAND, FLOODPLAIN, WATERS AND BUFFER AREAS, AND SHALL BE:
 - DUAL ROW OF SILT FENCE, AND A ROW OF ORANGE CONSTRUCTION FENCE; OR
 - DUAL SILT FENCE BARRIER, WITH ONE OF THE FENCES BEING OF HIGH VISIBILITY MATERIAL.
 - ALTERNATE PRACTICES OFFERING COMPARABLE PROTECTION TO WETLAND, FLOODPLAIN, WATERS, AND BUFFER MAY BE USED TO PREVENT IMPACT WHERE APPLICABLE.
 - ADDITIONAL SOIL EROSION AND SEDIMENT CONTROLS MAY BE REQUIRED TO ADEQUATELY PROTECT THESE SITES.
39. ALL DROP INLETS ON AND ADJACENT TO THE SITE MUST HAVE A SEDIMENT TRAPPING OR CONTAINMENT DEVICE INSTALLED DURING CONSTRUCTION ACTIVITIES. FILTER FABRIC ON ITS OWN IS NOT AN APPROVED METHOD. A MANUFACTURER'S SPEC SHOULD BE USED FOR PREFABRICATED DROP INLET PROTECTION AND SHOULD BE AS RESTRICTIVE AS THE ILLINOIS URBAN MANUAL STANDARD 861 FOR INLET PROTECTION.
40. ALL DEWATERING OPERATIONS SHALL FOLLOW ILLINOIS URBAN MANUAL PRACTICE STANDARD 813.

"I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT (LR10) THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION."

CONTRACTOR SIGNATURE _____



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2416 GALEN DRIVE
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**WEST BRANCH DuPAGE RIVER
STABILIZATION
NAPERVILLE PARK DISTRICT**

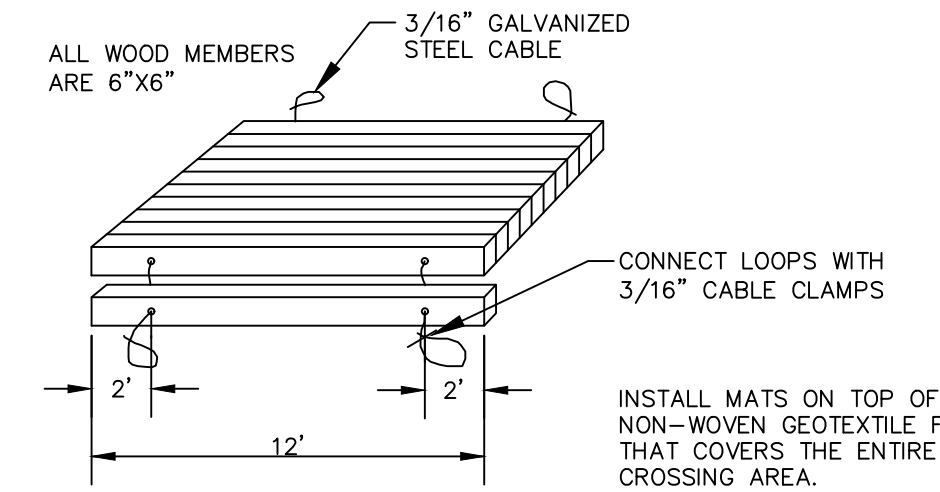
TITLE:
**STORMWATER POLLUTION PREVENTION PLAN
GENERAL NOTES AND DETAILS**

SCALE: N.T.S.
DATE: July, 2024
JOB NO: W23198
SHEET 14 OF 14

USACE Requirements for In-Stream Construction Activities

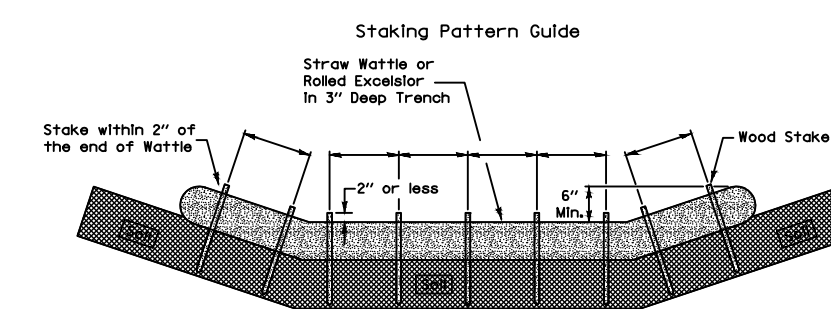
Work within a waterway must meet the following standards:

1. Work in the waterway should be timed to take place during low or no-flow conditions. Low flow conditions are flow at or below the normal water elevation.
2. The plan will be designed to allow for the conveyance of the 2-year peak flow past the work area without overlapping the cofferdam. The Corps has the discretion to reduce this requirement if documented by the applicant to be infeasible or unnecessary.
3. Water shall be isolated from the in-stream work area using a cofferdam constructed of nonerodible materials (steel sheets, aqua barriers, rip rap and geotextile liner, etc.). Earthen cofferdams are not permissible.
4. The cofferdam must be constructed from the upland area and no equipment may enter flowing water at any time. If the installation of the cofferdam cannot be completed from shore and access is needed to reach the area to be coffered, other measures, such as the construction of a causeway, will be necessary to ensure that equipment does not enter the waterway. Once the cofferdam is in place and the isolated area is dewatered, equipment may enter the coffered area to perform the required work.
5. If bypass pumping is necessary, the intake hose shall be placed on a stable surface or floated to prevent sediment from entering the hose. The bypass discharge shall be placed on a nonerodible, energy dissipating surface prior to rejoining the stream flow and shall not cause erosion. Filtering of bypass water is not necessary unless the bypass water has become sediment-laden as a result of the current construction activities.
6. During dewatering of the coffered work area, all sediment-laden water must be filtered to remove sediment. Possible options for sediment removal include baffle systems, anionic polymers systems, dewatering bags, or other appropriate methods. Water shall have sediment removed prior to being re-introduced to the downstream waterway. A stabilized conveyance from the dewatering device to the waterway must be identified in the plan. Discharge water is considered clean if it does not result in a visually identifiable degradation of water clarity.
7. The area from the toe to the top of the side slope shall be temporarily stabilized during construction to reduce the potential for erosion. All areas disturbed due to construction activities shall be restored to proposed conditions and fully stabilized prior to accepting flows.

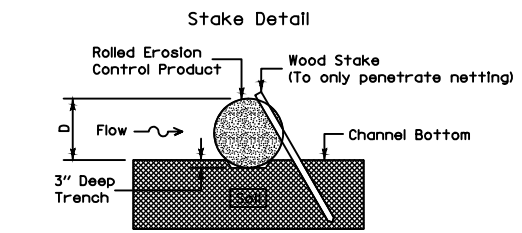


WOOD MAT ACCESS DETAIL
N.T.S.

ROLLED EROSION CONTROL PRODUCTS



- Notes:
1. Overlap minimum is the diameter of the roll.
 2. Spacing for wattle.
 3. 2" spacing for rolled excelsior.
 4. Or space according to manufacturer's specifications.



- Notes:
1. Drawings are not to scale.
 2. Ends of wattle or rolled excelsior shall be turned at least 60° upslope.
 3. Recommended stakes are 1 1/2" wide x 1 1/2" thick x 30" long.
 4. Stakes shall not extend above the straw wattle more than 2".
 5. Spacing: The toe of the upstream ditch check shall create a horizontal line with the top of the downstream ditch check.

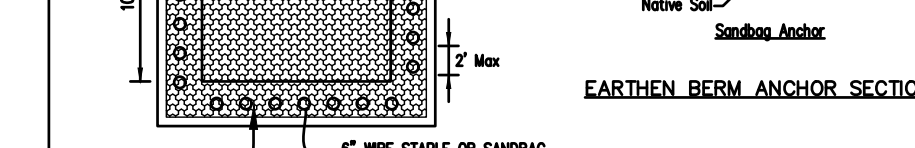
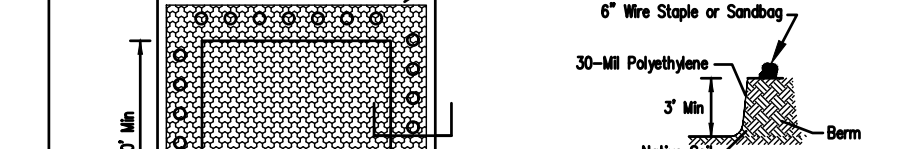
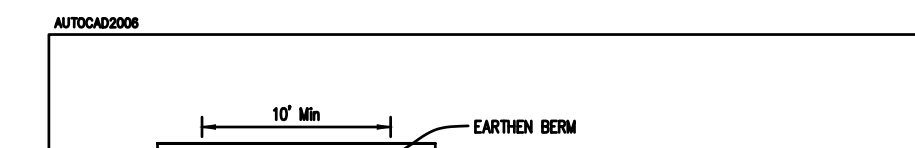
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_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____



STANDARD DWG. NO.	ILUM-514
PROJECT	WEST BRANCH DUPAGE RIVER STABILIZATION
DESIGNED	DATE 2-18-18
CHECKED	
APPROVED	

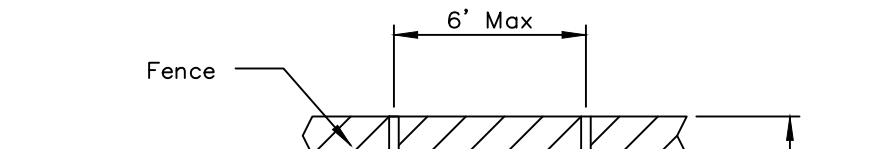
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_____	_____	_____	_____
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_____	_____	_____	_____

STANDARD DWG. NO.	ILUM-627
PROJECT	WEST BRANCH DUPAGE RIVER STABILIZATION
DESIGNED	DATE 7-20-24
CHECKED	
APPROVED	



- NOTES:
1. Maintaining temporary concrete washout facilities shall include removing and disposing of brackish concrete and/or slurry and returning the facilities to a functional condition.
 2. Facility shall be cleaned or reconstructed in a new area once washout becomes too-thin/silt.

TEMPORARY CONCRETE WASHOUT FACILITY - EARTHEN TYPE	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____



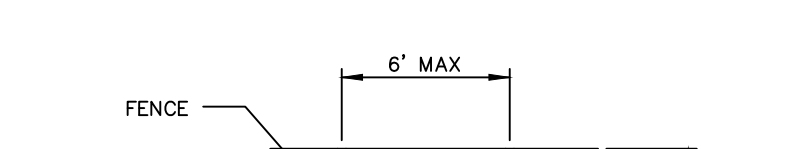
CONSTRUCTION FENCE DETAIL
N.T.S.

- NOTES:
1. FENCE POSTS SHALL BE EITHER STANDARD STEEL POSTS OR WOOD POSTS WITH A MINIMUM CROSS SECTIONAL AREA OF 3.0 SQ. IN.
 2. THE FENCE MAY BE EITHER 40" HIGH SNOW FENCE, 40" PLASTIC WEB FENCING OR ANY OTHER MATERIAL AS APPROVED BY THE ENGINEER/INSPECTOR.



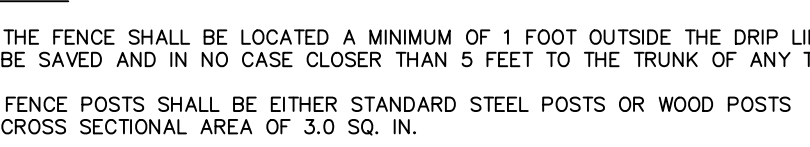
TREE PROTECTION
N.T.S.

- NOTES:
1. THE FENCE SHALL BE LOCATED A MINIMUM OF 1 FOOT OUTSIDE THE DRIP LINE OF THE TREE TO BE SAVED AND IN NO CASE CLOSER THAN 5 FEET TO THE TRUNK OF ANY TREE.
 2. FENCE POSTS SHALL BE EITHER STANDARD STEEL POSTS OR WOOD POSTS WITH A MINIMUM CROSS SECTIONAL AREA OF 3.0 SQ. IN.
 3. THE FENCE MAY BE EITHER 40" HIGH SNOW FENCE, 40" PLASTIC WEB FENCING OR ANY OTHER MATERIAL AS APPROVED BY THE PROJECT MANAGER.
 4. SURROUND TRUNK WITH 2"x8"x8" BOARDS PER DOT SECTION 201.06.b



POST AND FENCE DETAIL
N.T.S.

- NOTES:
1. THE FENCE SHALL BE LOCATED A MINIMUM OF 1 FOOT OUTSIDE THE DRIP LINE OF THE TREE TO BE SAVED AND IN NO CASE CLOSER THAN 5 FEET TO THE TRUNK OF ANY TREE.
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 4. SURROUND TRUNK WITH 2"x8"x8" BOARDS PER DOT SECTION 201.06.b



POST AND FENCE DETAIL
N.T.S.

REVISIONS:	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

DRAWN BY:	RT
CHECKED BY:	EP
APPROVED BY:	MM



35701 WEST AVENUE, SUITE 150
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FAX (630) 393-2152

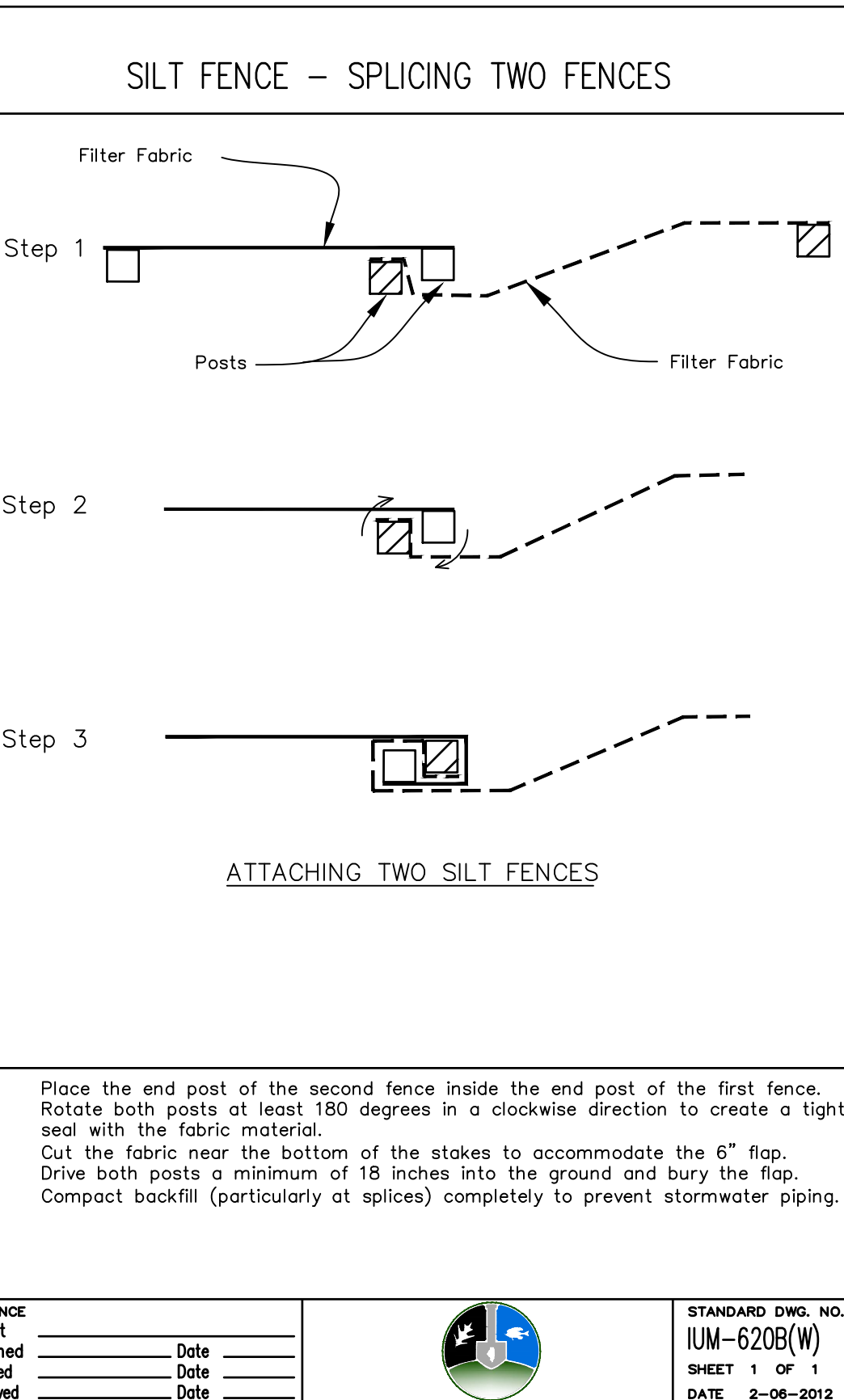
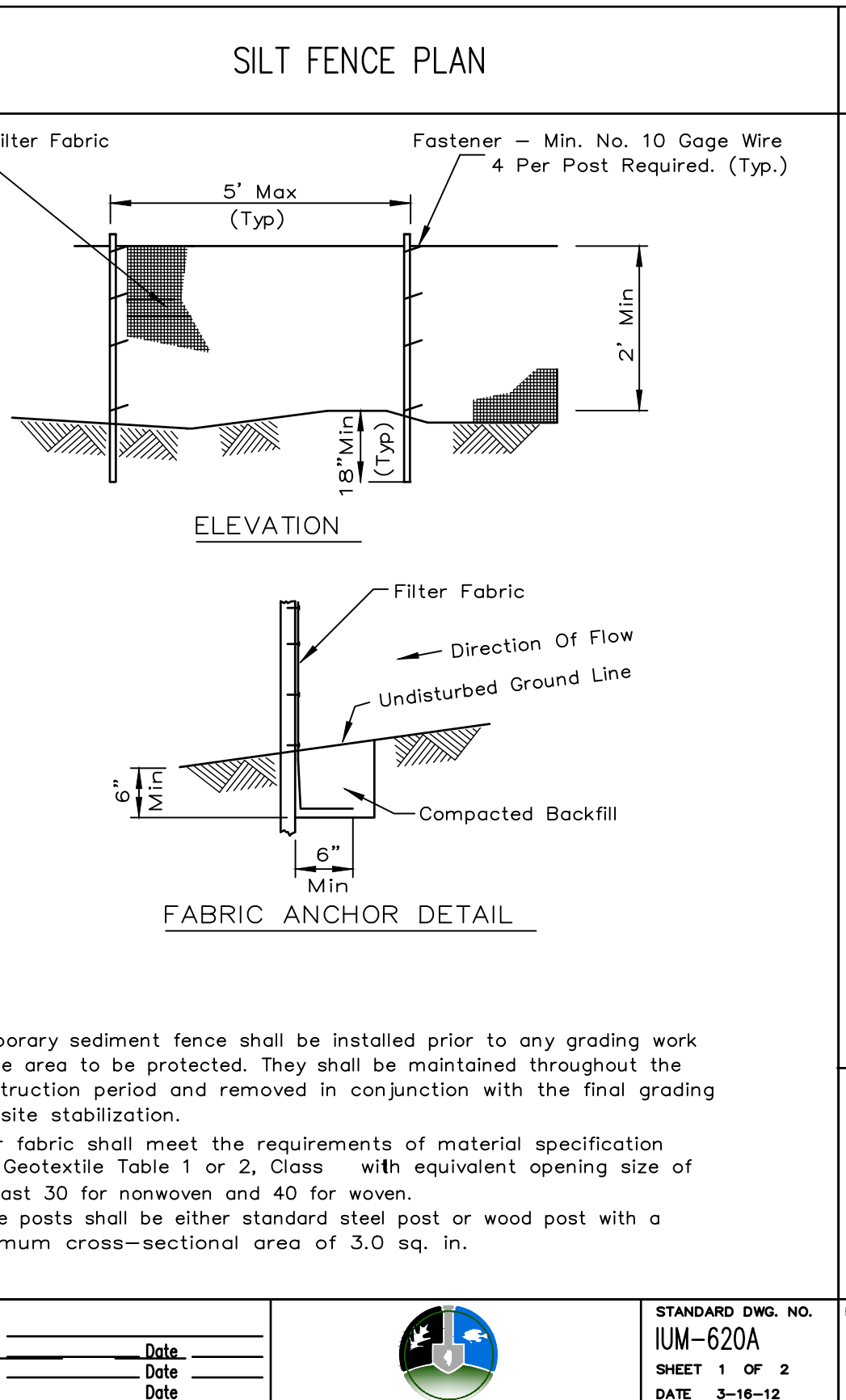
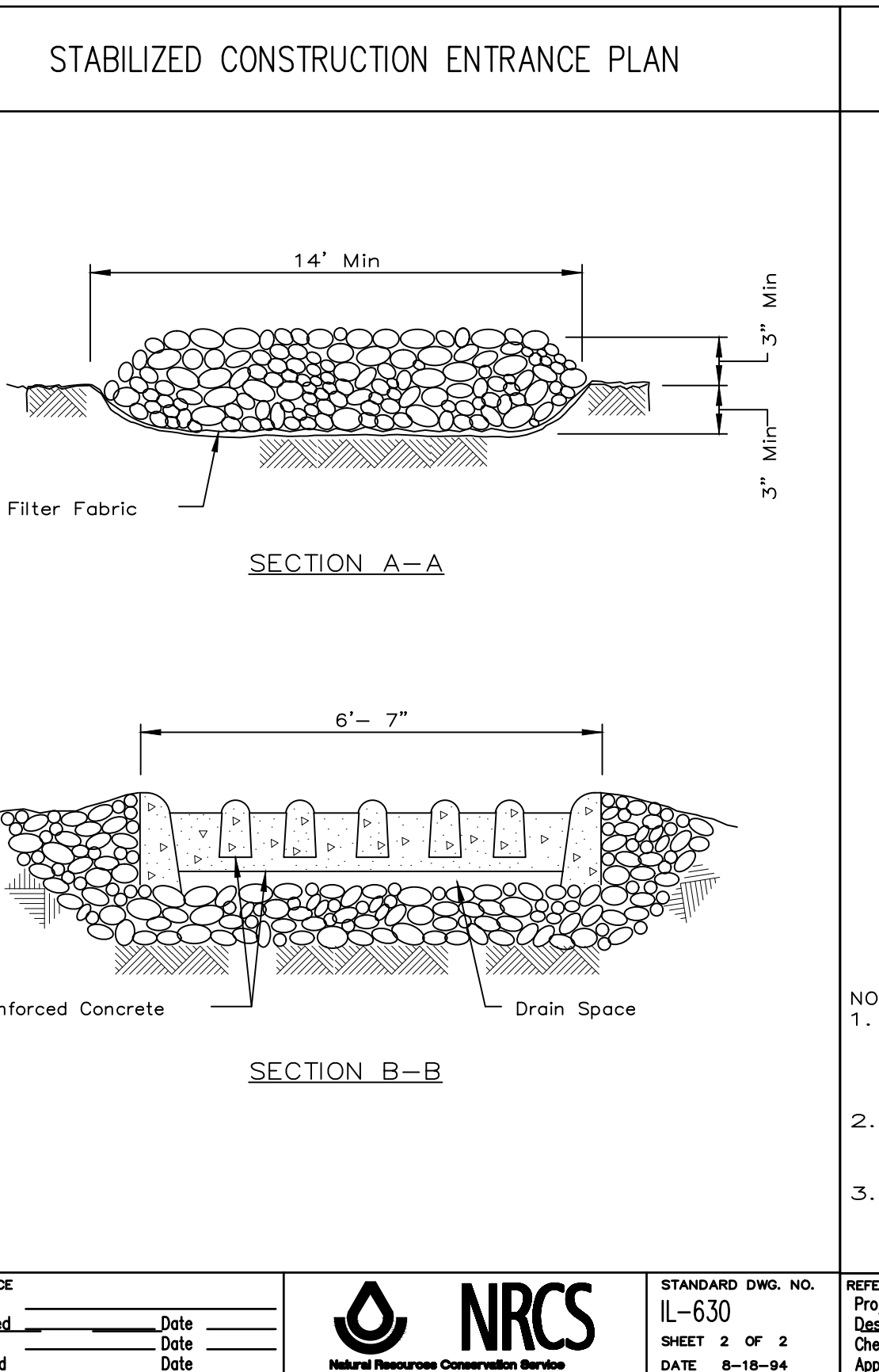
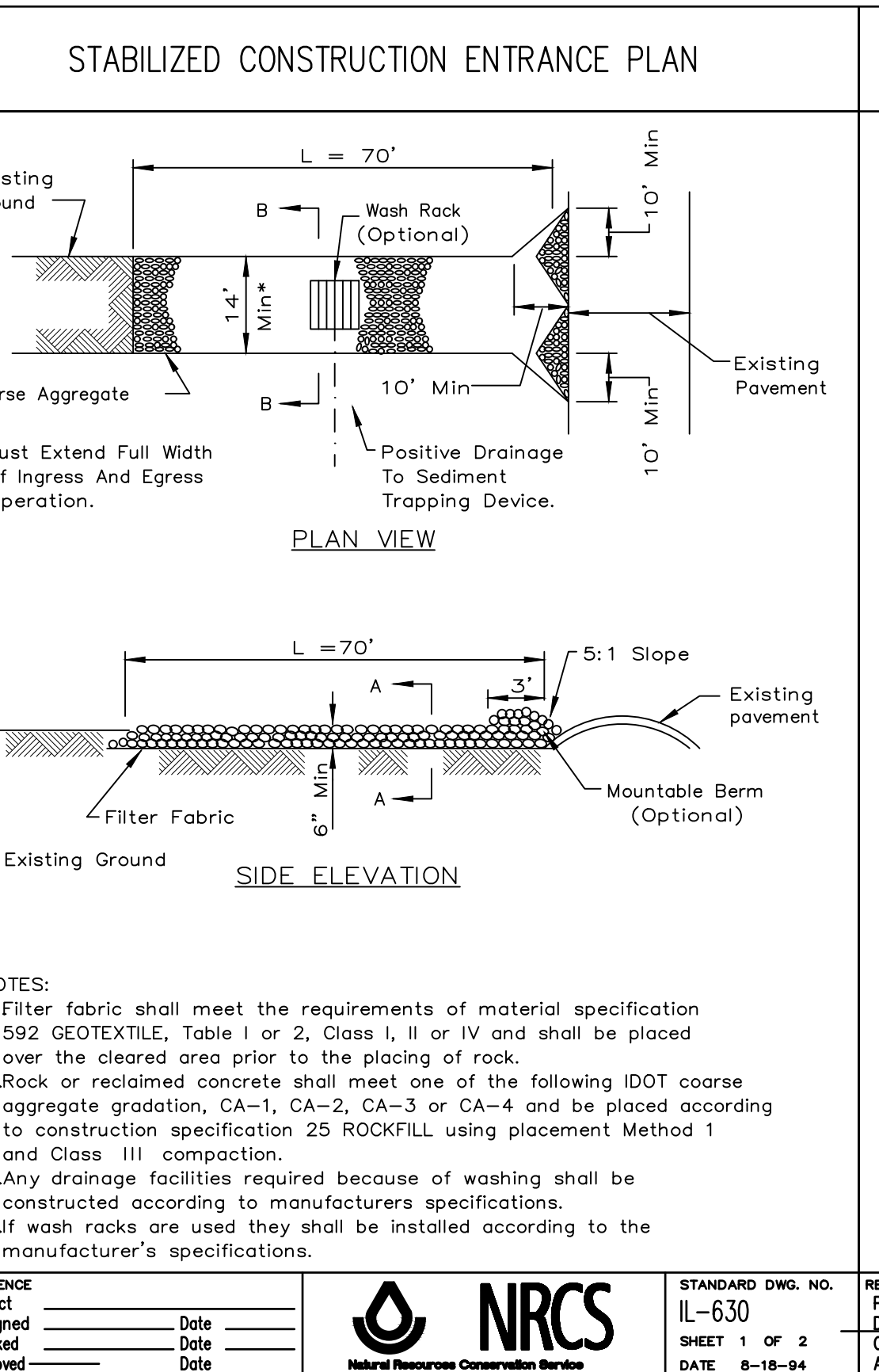
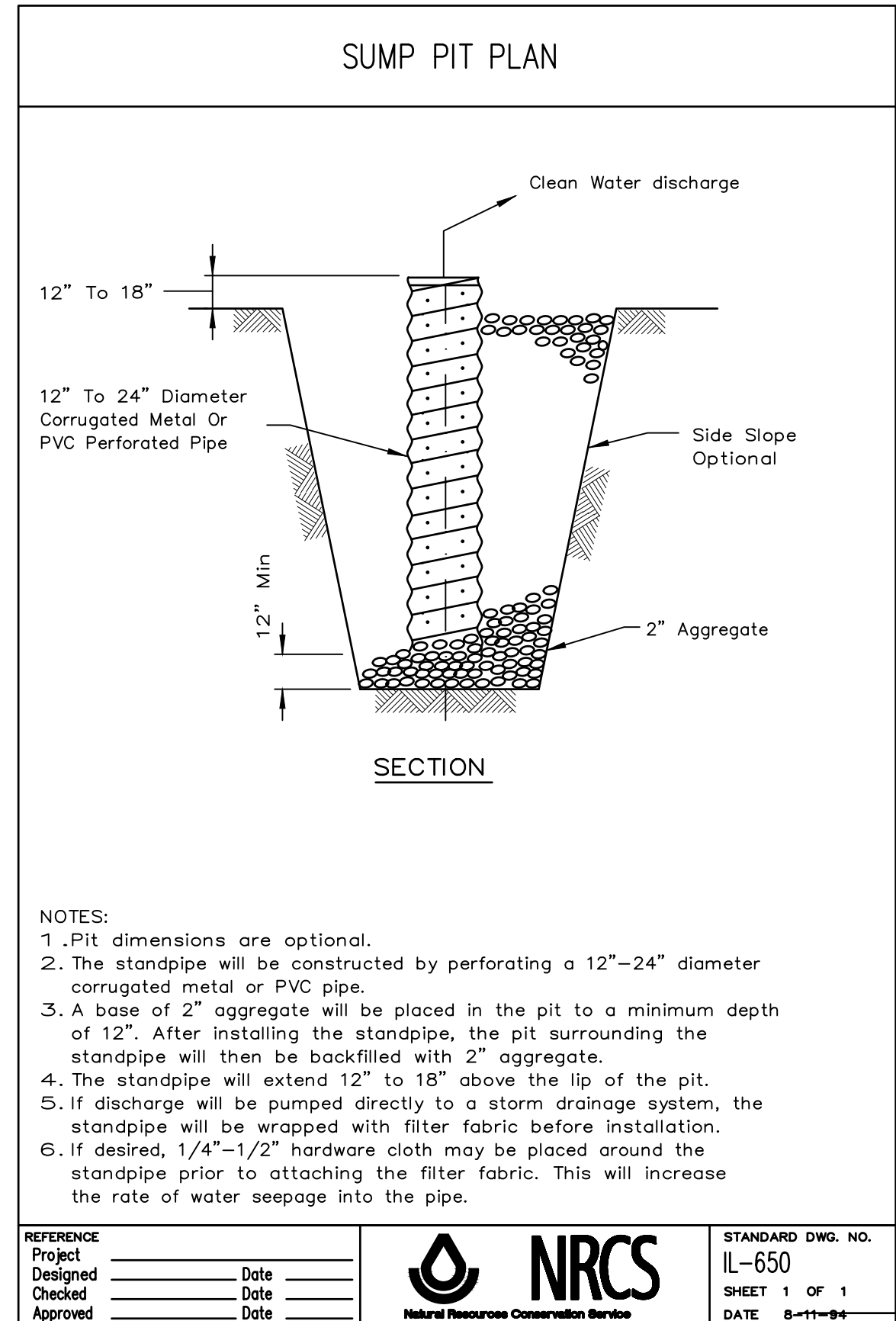
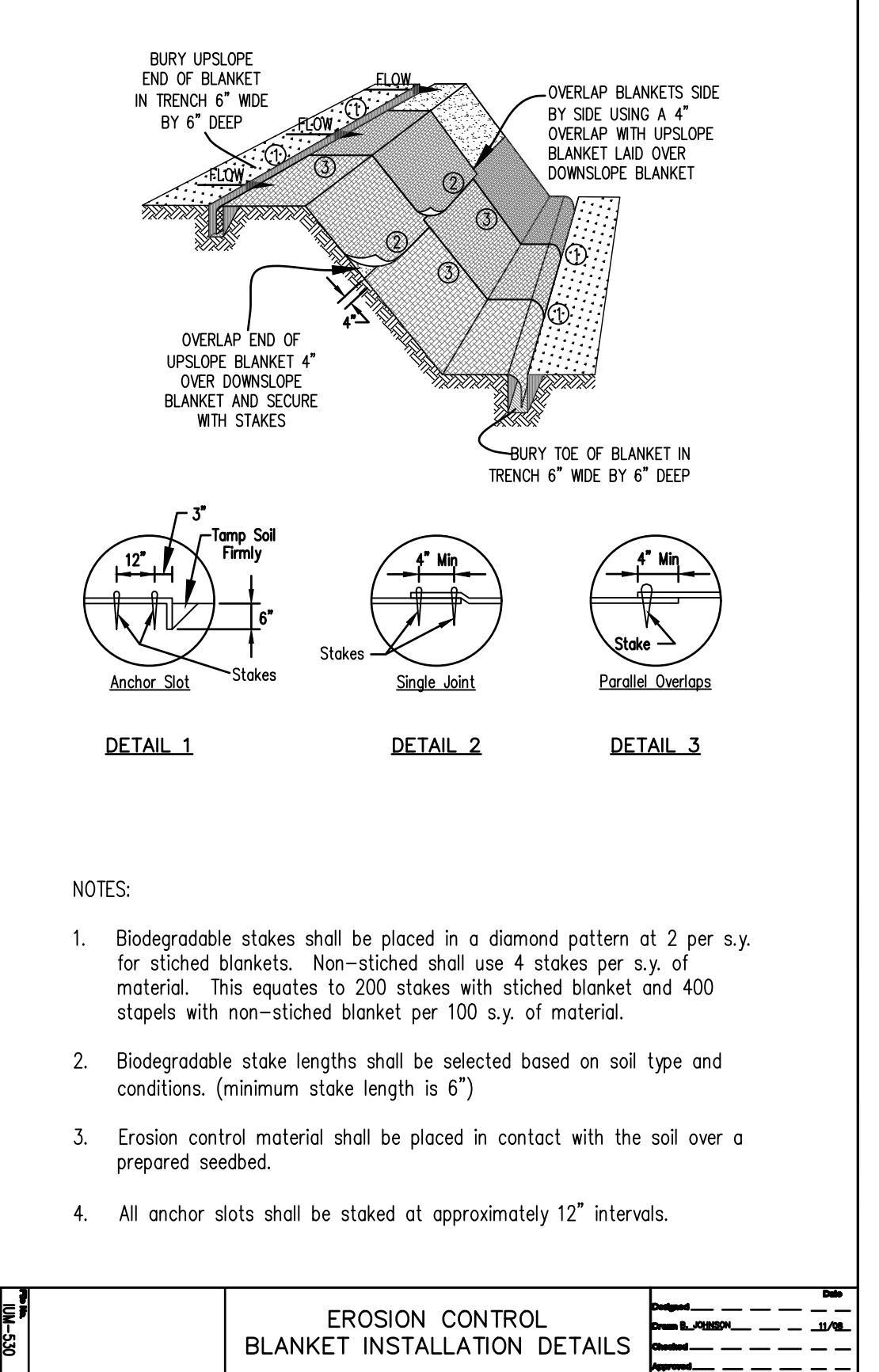
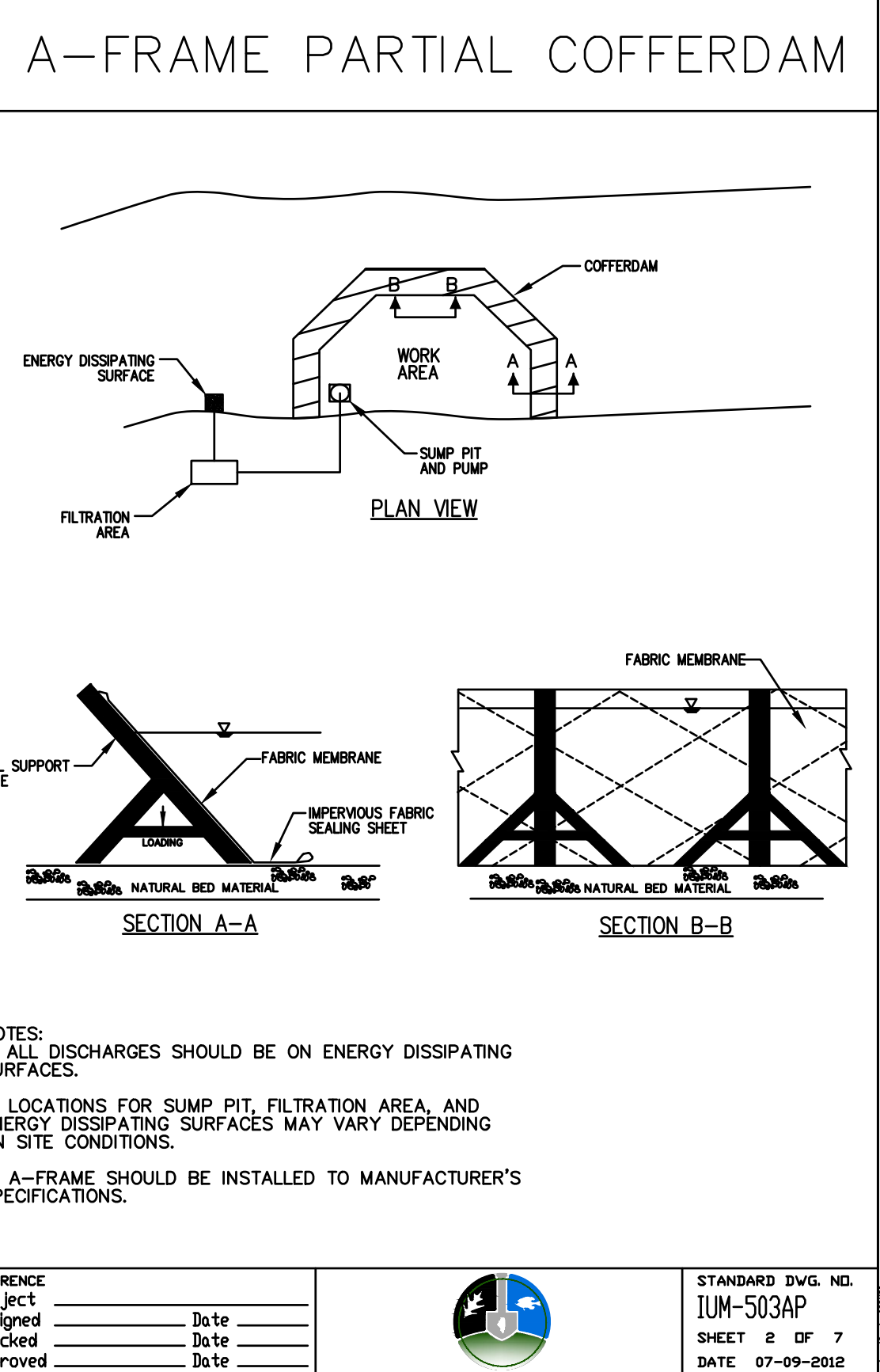
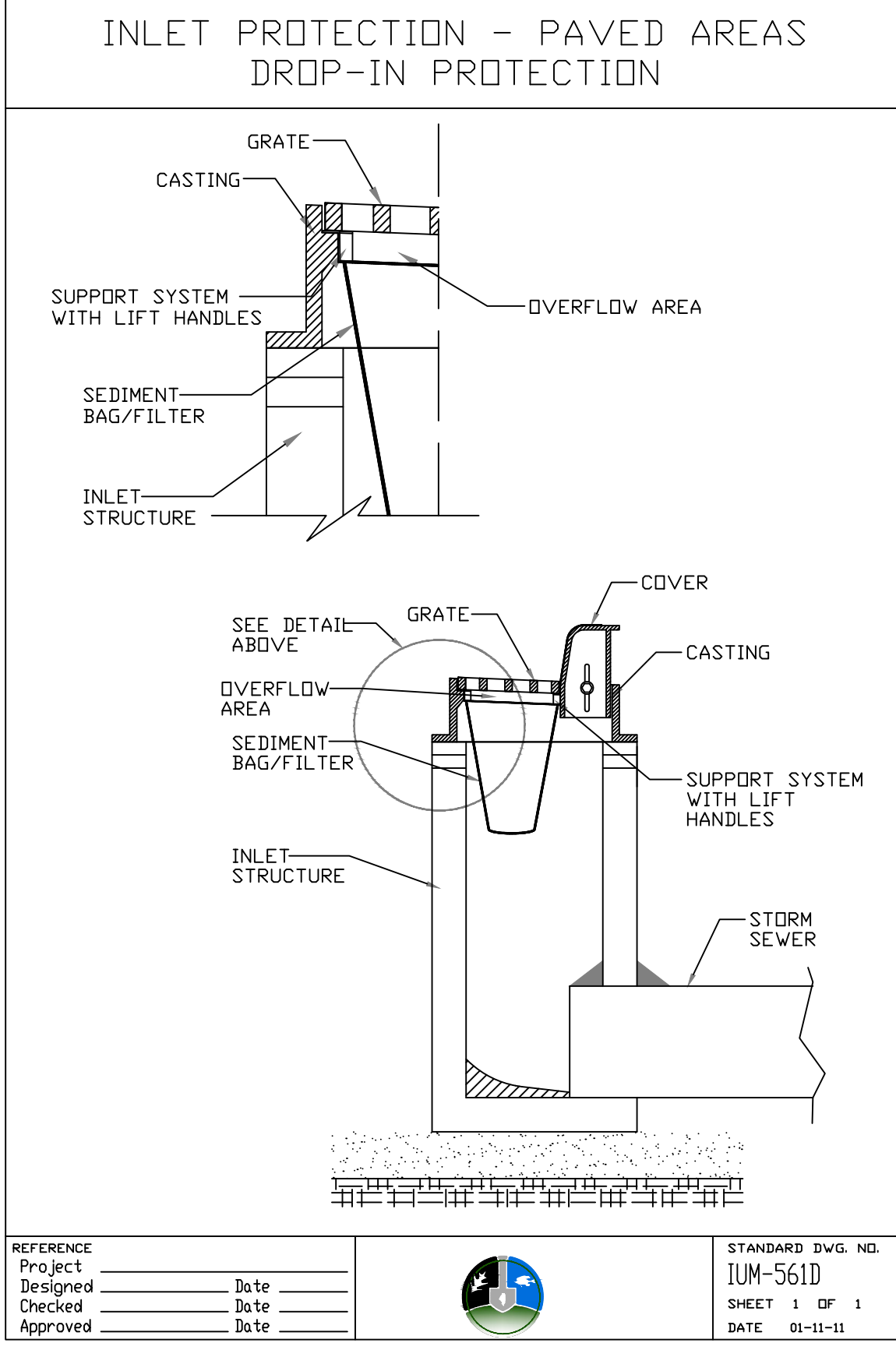
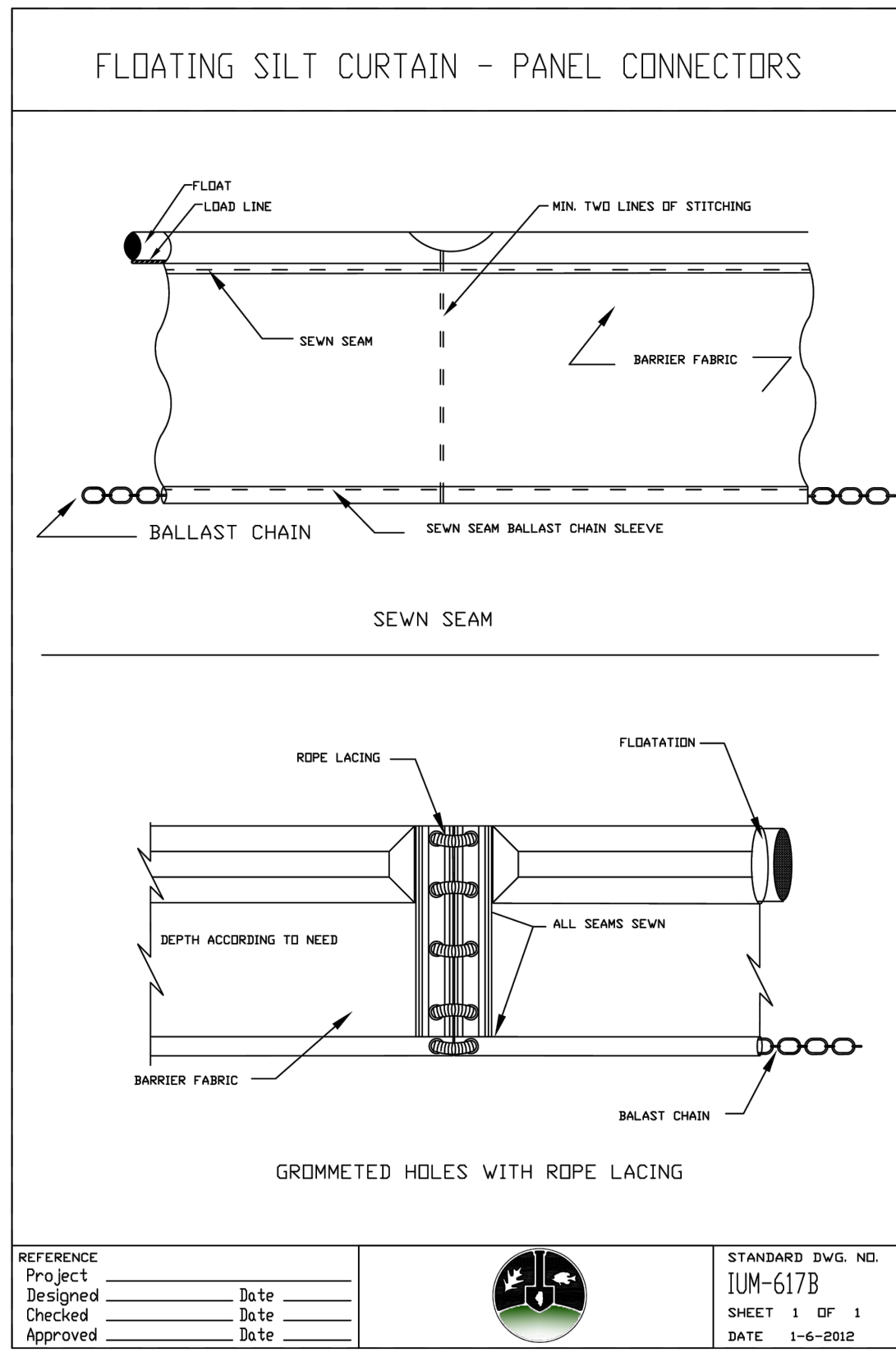
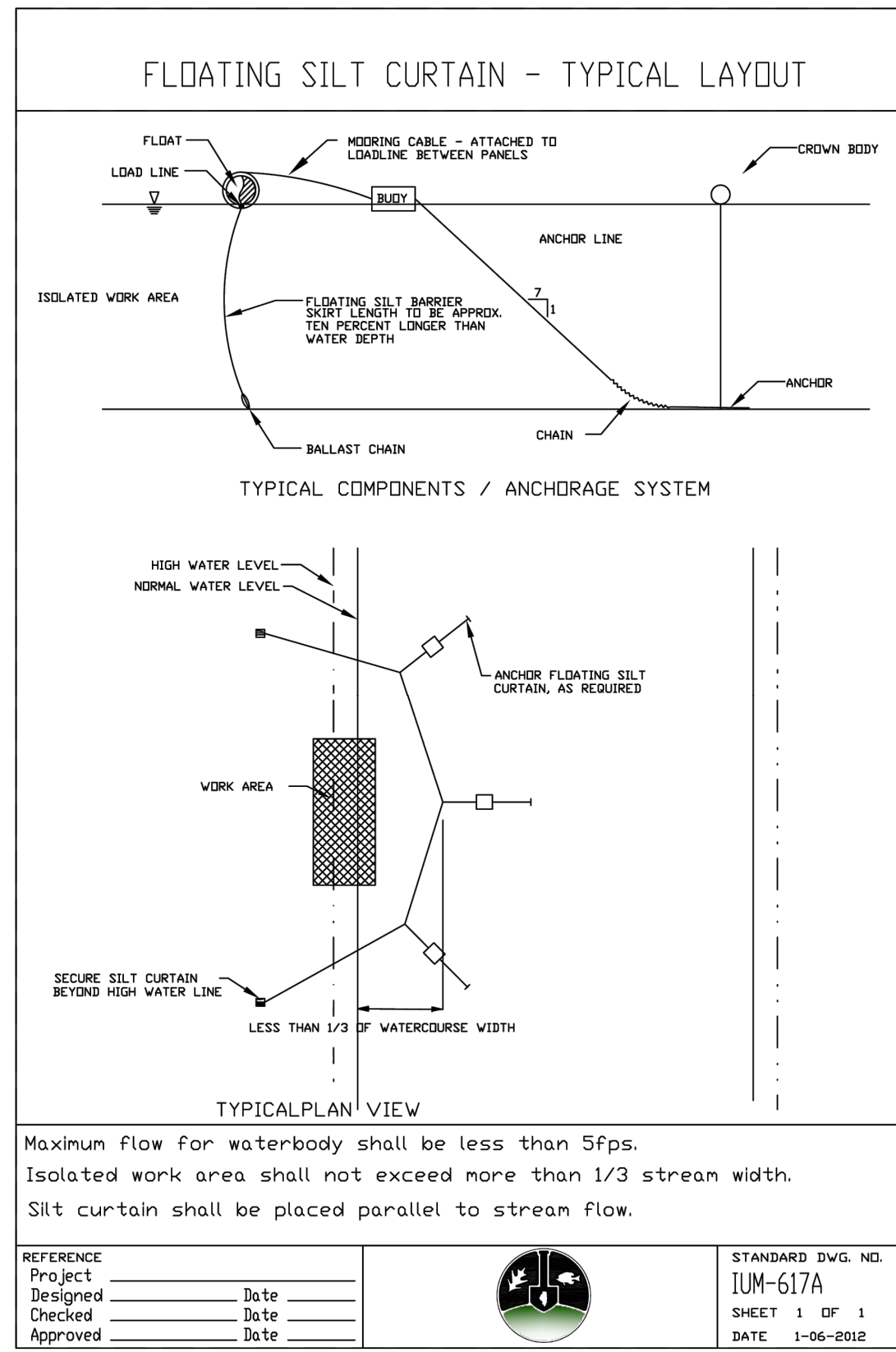
10 S. RIVERSIDE PLAZA, SUITE 875
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PHONE (312) 474-7841
FAX (312) 474-6099

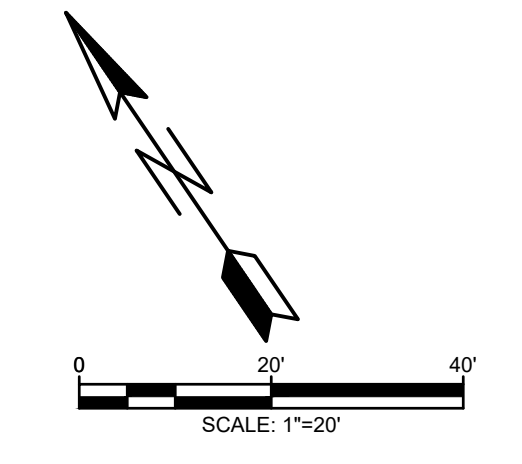
2416 GALEN DRIVE
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FAX (217) 355-1902

**WEST BRANCH DuPAGE RIVER
STABILIZATION
NAPERVILLE PARK DISTRICT**

TITLE:
**STORMWATER POLLUTION PREVENTION PLAN
GENERAL NOTES AND DETAILS**

SCALE: N.T.S.
DATE: July, 2024
JOB NO: W23198
SHEET 14 OF 14

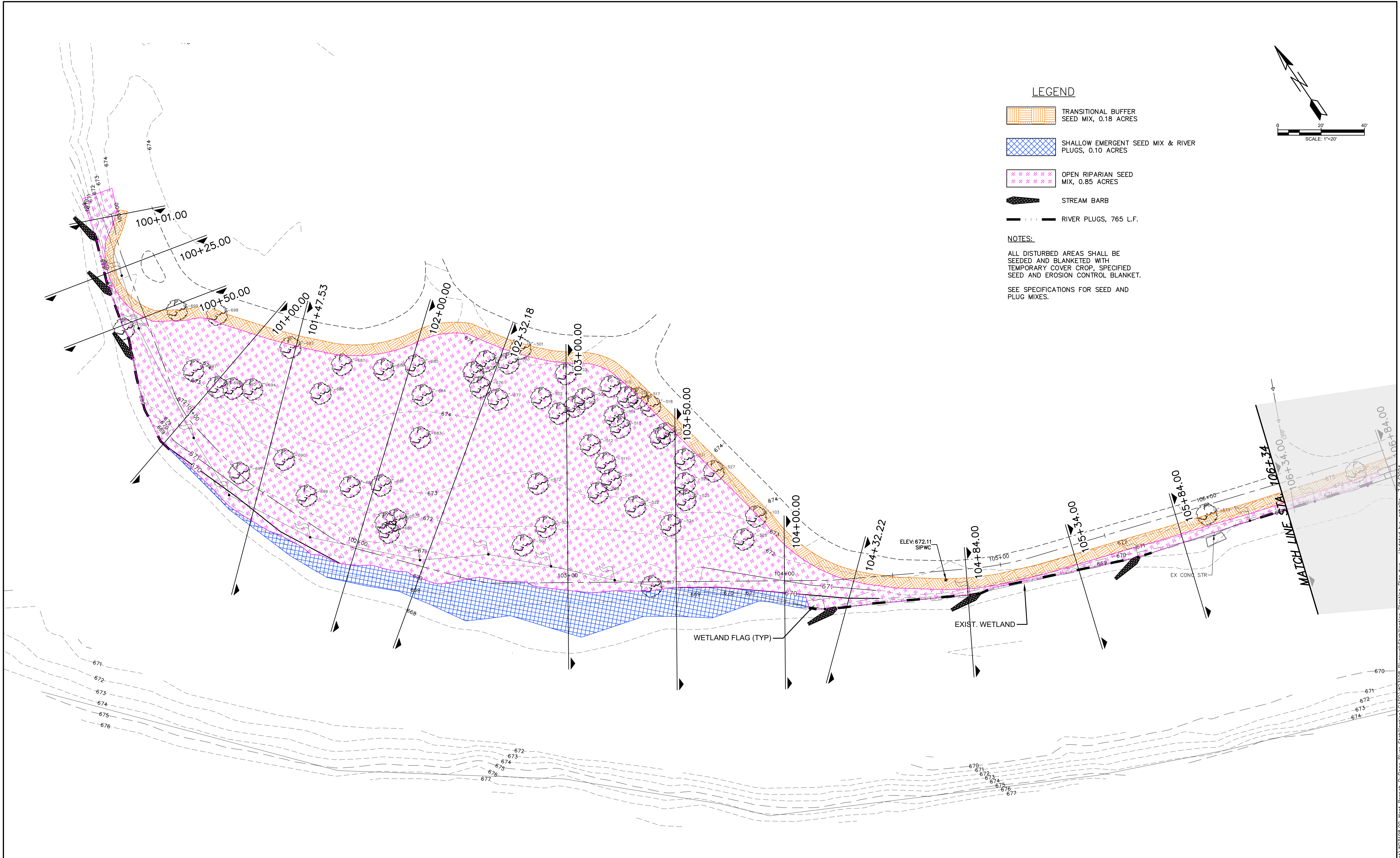




LEGEND

- TRANSITIONAL BUFFER
SEED MIX, 0.18 ACRES
- SHALLOW EMERGENT SEED MIX & RIVER
PLUGS, 0.10 ACRES
- OPEN RIPARIAN SEED
MIX, 0.85 ACRES
- STREAM BARB
- RIVER PLUGS, 765 L.F.

NOTES:
 ALL DISTURBED AREAS SHALL BE SEEDED AND BLANKETED WITH TEMPORARY COVER CROP, SPECIFIED SEED AND EROSION CONTROL BLANKET.
 SEE SPECIFICATIONS FOR SEED AND PLUG MIXES.



REVISIONS:					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

DRAWN BY: RT
 CHECKED BY: EP
 APPROVED BY: MM



3S701 WEST AVENUE, SUITE 150
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 FAX (630) 393-2152

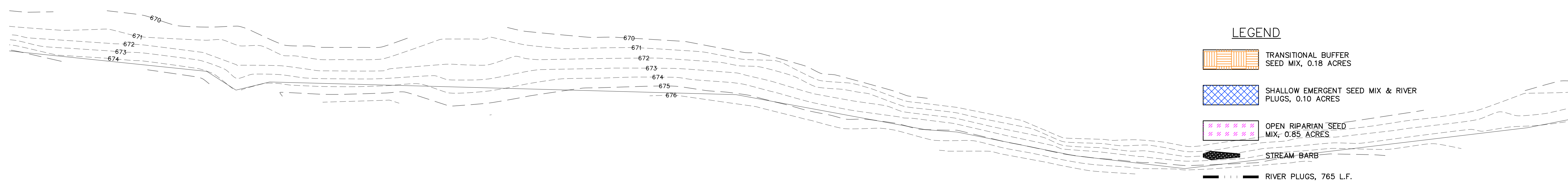
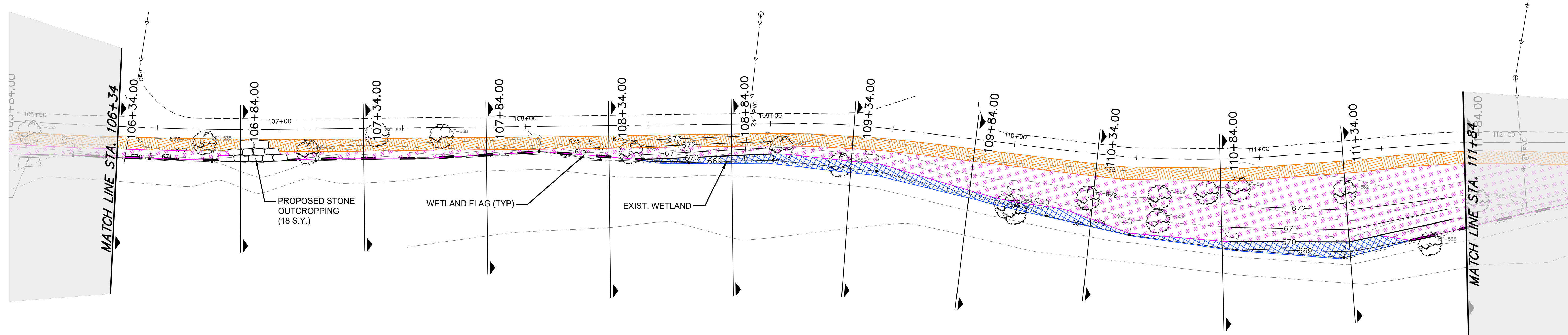
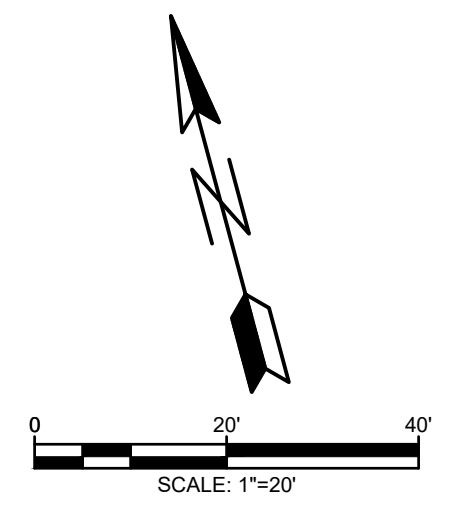
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**WEST BRANCH DuPAGE RIVER
 STABILIZATION
 NAPERVILLE PARK DISTRICT**

TITLE:	PLANTING PLAN STA. 100+00 TO STA. 105+00
SCALE:	1" = 20'
DATE:	July, 2024
JOB NO:	W23198
SHEET:	16 OF 16

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LEGEND

- TRANSITIONAL BUFFER SEED MIX, 0.18 ACRES
- SHALLOW EMERGENT SEED MIX & RIVER PLUGS, 0.10 ACRES
- OPEN RIPARIAN SEED MIX, 0.85 ACRES
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- RIVER PLUGS, 765 L.F.

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 SEE SPECIFICATIONS FOR SEED AND PLUG MIXES.

REVISIONS:					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

DRAWN BY: RT
 CHECKED BY: _____
 APPROVED BY: _____



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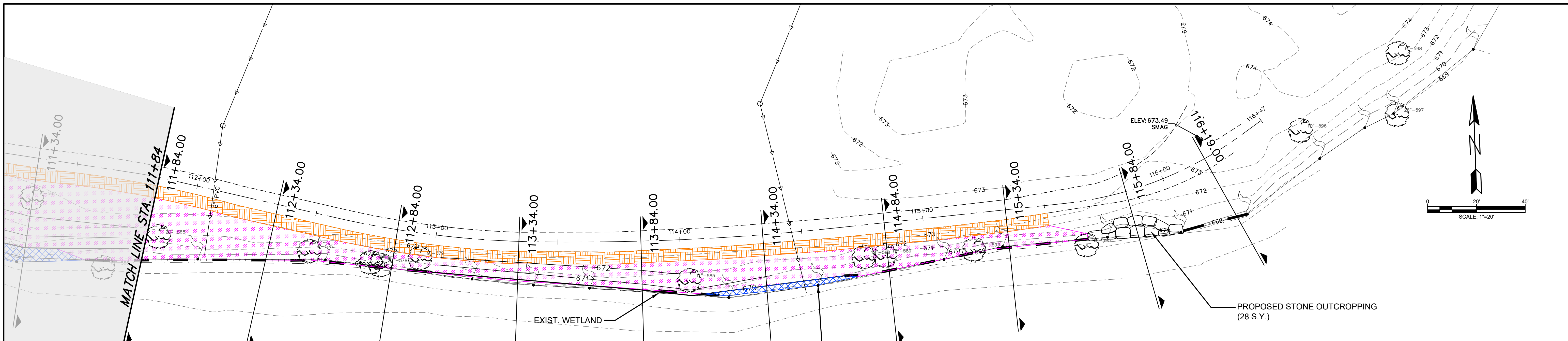
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**WEST BRANCH DuPAGE RIVER
 STABILIZATION
 NAPERVILLE PARK DISTRICT**

TITLE:	PLANTING PLAN STA. 105+00 TO STA. 110+50
SCALE:	1" = 20'
DATE:	July, 2024
JOB NO:	W23198
SHEET:	17 OF 17

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Temporary Cover Crop		
Scientific Name	Common Name	Lbs./Acre
<i>Avena sativa</i>	Common Oat	32,000
	Wheat/Wheatgrass Hybrid, Regreen or eq.	10,000

Shallow Emergent Seed Mix		
Botanical Name	Common Name	Lbs./Acre
<i>Acorus americanus</i>	Sweet Flag	0.313
<i>Agrostis stolonifera</i>	Bent Grass	1.250
<i>Alisma subcordatum</i>	Water Plantain	0.313
<i>Ammannia robusta</i>	Scarlet Loosestrife	0.039
<i>Asclepias incarnata</i>	Swamp Milkweed	0.117
<i>Bidens cernua</i>	Nodding Burmarigold	0.079
<i>Boltonia asteroides</i>	False Asterwort	0.156
<i>Bulboschoenus fluviatilis</i>	River Bulrush	0.156
<i>Carex bebbii</i>	Bebb's Sedge	1.250
<i>Carex comosa</i>	Bottlebrush Sedge	0.469
<i>Carex hystericina</i>	Porcupine Sedge	0.313
<i>Carex lacustris</i>	Common Lake Sedge	0.020
<i>Carex lurida</i>	Bottlebrush Sedge	0.313
<i>Carex scoparia</i>	Pointed Broom Sedge	1.250
<i>Carex vulpinoidea</i>	Brown Fox Sedge	0.469
<i>Cephalanthus occidentalis</i>	Buttonbush	0.039
<i>Eleocharis erythropoda</i>	Redrooted Spikerush	0.039
<i>Eleocharis obtusa</i>	Blunt Spikerush	0.156
<i>Eleocharis ovata</i>	Blunt Spike Rush	0.039
<i>Eleocharis palustris major</i>	Marsh Spikerush	0.039
<i>Elymus canadensis</i>	Canada Rye	1.250
<i>Elymus virginicus</i>	Virginia Rye	1.250
<i>Eupatorium maculatum</i>	Spotted Joe-Pye Weed	0.039
<i>Eupatorium perfoliatum</i>	Thoroughwort	0.039
<i>Glyceria striata</i>	Fowl Manna Grass	0.313
<i>Hibiscus laevis</i>	Halberdleaf Rose Mallow	0.234
<i>Iris virginica</i>	Blue Flag	0.469
<i>Juncus balticus littoralis</i>	Lake Shore Rush	0.156
<i>Juncus effusus</i>	Soft Rush	0.156
<i>Juncus torreyi</i>	Torreys Rush	0.235
<i>Leersia oryzoides</i>	Rice Cut Grass	0.625
<i>Lobelia cardinalis</i>	Cardinal Flower	0.020
<i>Lycopus americanus</i>	Common Water Horehound	0.020
<i>Mimulus ringens</i>	Monkey Flower	0.078
<i>Penthorum sedoides</i>	Ditch Stonecrop	0.039
<i>Pontederia cordata</i>	Pickereel Weed	0.781
<i>Sagittaria latifolia</i>	Common Arrowhead	0.625
<i>Schoenoplectus acutus</i>	Hardstem Bulrush	0.195
<i>Schoenoplectus pungens</i>	Chairmakers Rush	0.313
<i>Schoenoplectus tabernaemontani</i>	Great Bulrush	0.469
<i>Sparganium americanum</i>	American Bur Reed	0.078
<i>Spartina pectinata</i>	Cord Grass	0.469
<i>Symphotrichum lanceolatum</i>	Panicled Aster	0.156
<i>Symphotrichum puniceum</i>	Swamp Aster	0.156
TOTAL		14,980

Open Riparian Seed Mix		
Scientific Name	Common Name	Lbs./Acre
<i>Andropogon gerardii</i>	Big Bluestem	1,500
<i>Asclepias incarnata</i>	Swamp Milkweed	0.125
<i>Asclepias syriaca</i>	Common Milkweed	0.125
<i>Baptisia leucantha</i>	Wild White Indigo	0.250
<i>Bouteloua curtipendula</i>	Side Oats Gramma	1,500
<i>Calamagrostis canadensis</i>	Blue Joint Grass	0.250
<i>Carex annectens xanthocarpa</i>	Small Yellow Fox Sedge	0.125
<i>Carex bebbii</i>	Bebb's Sedge	0.125
<i>Carex brevior</i>	Shorter Sedge	0.125
<i>Carex cristatella</i>	Crested Sedge	0.125
<i>Carex normalis</i>	Normal Sedge	0.125
<i>Carex scoparia</i>	Pointed Broom Sedge	0.125
<i>Carex vulpinoidea</i>	Fox Sedge	0.125
<i>Coreopsis tripteris</i>	Tall Coreopsis	0.125
<i>Dalea candida</i>	White Prairie Clover	0.125
<i>Dalea purpurea</i>	Purple Prairie Clover	0.250
<i>Desmodium canadense</i>	Showy Tick Trefoil	0.150
<i>Echinacea pallida</i>	Pale Purple Coneflower	0.375
<i>Echinacea purpurea</i>	Purple Coneflower	0.500
<i>Elymus virginicus</i>	Virginia Wild Rye	1,500
<i>Eryngium yuccifolium</i>	Rattlesnake Master	0.500
<i>Eupatorium maculatum</i>	Spotted Joe Pye Weed	0.250
<i>Eupatorium perfoliatum</i>	Thoroughwort	0.063
<i>Glyceria striata</i>	Fowl Manna Grass	0.250
<i>Helenium autumnale</i>	Sneezeweed	0.188
<i>Helopsis helianthoides</i>	Early Sunflower	0.250
<i>Iris virginica shrevei</i>	Blue Flag	0.125
<i>Juncus dudleyi</i>	Dudley's Rush	0.031
<i>Juncus torreyi</i>	Torreys Rush	0.063
<i>Leersia oryzoides</i>	Rice Cut Grass	1,000
<i>Liatris pycnostachya</i>	Prairie Blazing Star	0.031
<i>Liatris spicata</i>	Marsh Blazing Star	0.031
<i>Lobelia siphilitica</i>	Great Blue Lobelia	0.031
<i>Lycopus americanus</i>	Water Horehound	0.063
<i>Monarda fistulosa</i>	Bergamont	0.250
<i>Oligoneuron rigidum</i>	Stiff Goldenrod	0.125
<i>Panicum virgatum</i>	Switch Grass	1,000
<i>Physostegia virginiana</i>	False Dragonhead	0.063
<i>Pycnanthemum virginianum</i>	Common Mountain Mint	0.160
<i>Ratibida pinnata</i>	Yellow Coneflower	0.250
<i>Rudbeckia hirta</i>	Black-Eyed Susan	0.250
<i>Rudbeckia laciniata</i>	Wild Golden Glow	0.063
<i>Rudbeckia subtomentosa</i>	Sweet Coneflower	0.250
<i>Schizachyrium scoparium</i>	Little Bluestem	1,500
<i>Scirpus atrovirens</i>	Dark Green Rush	0.125
<i>Silphium integrifolium</i>	Rosinweed	0.250
<i>Silphium laciniatum</i>	Compass Plant	0.125
<i>Silphium perfoliatum</i>	Cup Plant	0.250
<i>Silphium terebinthinaceum</i>	Prairie Dock	0.250
<i>Spartina pectinata</i>	Cord Grass	0.250
<i>Symphotrichum laeve</i>	Smooth Blue Aster	0.125
<i>Symphotrichum novae-angliae</i>	New England Aster	0.250
<i>Symphotrichum oolentangiense</i>	Sky Blue Aster	0.125
<i>Verbena hastata</i>	Blue Vervain	0.250
<i>Vernonia fasciculata</i>	Common Ironweed	0.063
<i>Veronicastrum virginicum</i>	Culver's Root	0.063
<i>Zizia aurea</i>	Golden Alexander	0.063
TOTAL		16,626

Transitional Buffer Seed Mix		
Scientific Name	Common Name	Lbs./Acre
<i>Bouteloua curtipendula</i>	Side-Oats gramma	15,000
<i>Buchloe dactyloides BOWIEI</i>	Bowie Buffalo Grass	2,000
<i>Carex annectens</i>	Yellow-fruited Sedge	0.063
<i>Carex bicknellii</i>	Bicknells Sedge	0.125
<i>Carex brevior</i>	Shorter Sedge	0.125
<i>Carex molesta</i>	Field Oval Sedge	0.125
<i>Carex vulpinoidea</i>	Brown fox Sedge	0.125
<i>Elymus Canadensis</i>	Canada Wild Rye	3,000
<i>Schizachyrium scoparium</i>	Little Bluestem	20,000
TOTAL		40,563

River Plugs (14,000/ACRE)*					
Scientific Name	Common Name	Quantity%	2024	2025	IOBE 2026
<i>Acorus calamus</i>	Sweet Flag	5.0%	100	50	0
<i>Carex aquatilis</i>	Water Sedge	5.0%	100	50	0
<i>Carex lacustris</i>	Common Lake Sedge	5.0%	100	50	0
<i>Carex trichocarpa</i>	Hairy-Fruited Sedge	10.0%	150	50	50
<i>Eleocharis palustris</i>	Great Spike Rush	5.0%	100	50	0
<i>Hibiscus laevis</i>	Halberd-Leaved Rose Mallow	7.0%	100	50	50
<i>Iris virginica shrevei</i>	Blue Flag	5.0%	100	50	0
<i>Juncus effusus</i>	Common Rush	5.0%	100	50	0
<i>Justicia americana</i>	Water Willow	5.0%	100	50	0
<i>Schoenoplectus acutus</i>	Hardstem Bulrush	5.0%	100	50	0
<i>Schoenoplectus fluviatilis</i>	River Bulrush	5.0%	100	50	0
<i>Schoenoplectus pungens</i>	Chairmaker's Bulrush	8.0%	100	50	50
<i>Schoenoplectus tabernaemontani</i>	Softstem Bulrush	5.0%	100	50	0
<i>Scirpus atrovirens</i>	Dark Green Rush	5.0%	100	50	0
<i>Scirpus cyperinus</i>	Wool Grass	5.0%	100	50	0
<i>Sparganium eurycarpum</i>	Common Bur Reed	5.0%	100	50	0
<i>Spartina pectinata</i>	Prairie Cord Grass	10.0%	150	50	50
TOTAL PLUGS		100%	1800	850	200

TREES AND SHRUBS				
Scientific Name	WI	Common Name	Size	Quantity
TREES				
<i>Betula nigra</i>	(FACW)	River Birch	1.5" Caliper	2
<i>Carpinus caroliniana</i>	(FAC)	Blue Beech	1.5" Caliper	3
<i>Carya cordiformis</i>	(FACU)	Bittemut Hickory	1.5" Caliper	2
<i>Carya ovata</i>	(FACU)	Shagbark Hickory	1.5" Caliper	3
<i>Cercis canadensis</i>	(FACU)	Redbud	1.5" Caliper	3
<i>Crataegus mollis</i>	(FACU-)	Downy Hawthorn	1.5" Caliper	2
<i>Gymnocladus dioica</i>	(UPL)	Kentucky Coffee Tree	1.5" Caliper	3
<i>Ostrya virginiana</i>	(FACU-)	Ironwood	1.5" Caliper	2
<i>Platanus occidentalis</i>	(FACW)	Sycamore	1.5" Caliper	2
<i>Quercus alba</i>	(FAC)	White Oak	1.5" Caliper	2
<i>Quercus bicolor</i>	(FACW+)	Swamp White Oak	1.5" Caliper	3
<i>Quercus macrocarpa</i>	(FAC)	Bur Oak	1.5" Caliper	3
TOTAL				30
SHRUBS				
<i>Amorpha fruticosa</i>	(FACW+)	Indigo Bush	5 gal	9
<i>Cephalanthus occidentalis</i>	(OBL)	Buttonbush	5 gal	9
<i>Cornus obliqua</i>	(FACW+)	Silky Dogwood	5 gal	6
<i>Cornus stolonifera</i>	(FACW+)	Red Osier Dogwood	5 gal	6
<i>Corylus americana</i>	(FACU-)	American Filbert	5 gal	6
<i>Hamamelis virginiana</i>	(FACU)	Common Witchhazel	5 gal	9
<i>Lindera benzoin</i>	(FACW-)	Spicebush	5 gal	6
<i>Physocarpus opulifolius</i>	(FACW-)	Ninebark	5 gal	7
<i>Ribes americanum</i>	(FACW-)	Wild Black Currant	5 gal	6
<i>Rosa palustris</i>	(OBL)	Swamp Rose	5 gal	7
<i>Sambucus canadensis</i>	(FACW)	Common Elderberry	5 gal	6
<i>Viburnum lentago</i>	(FAC+)	Nannyberry	5 gal	7
<i>Viburnum prunifolium</i>	(FACU)	Blackhaw	5 gal	6
TOTAL				90

ALL TREES AND SHRUBS SHALL BE FIELD LOCATED UPON DELIVERY. AN AS-BUILT OF PLANTED LOCATIONS ALONG THE BANK AND WITHIN THE FLOODPLAIN ADJACENT TO THE PATH WILL BE PROVIDED.

LEGEND

- TRANSITIONAL BUFFER SEED MIX, 0.18 ACRES
- SHALLOW EMERGENT SEED MIX & RIVER PLUGS, 0.10 ACRES
- OPEN RIPARIAN SEED MIX, 0.85 ACRES
- STREAM BARB
- RIVER PLUGS, 765 L.F.

NOTES:

ALL DISTURBED AREAS SHALL BE SEEDED AND BLANKETED WITH TEMPORARY COVER CROP, SPECIFIED SEED AND EROSION CONTROL BLANKET.

SEE SPECIFICATIONS FOR SEED AND PLUG MIXES.

REVISIONS:					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

DRAWN BY: RT
 CHECKED BY: EP
 APPROVED BY: MM



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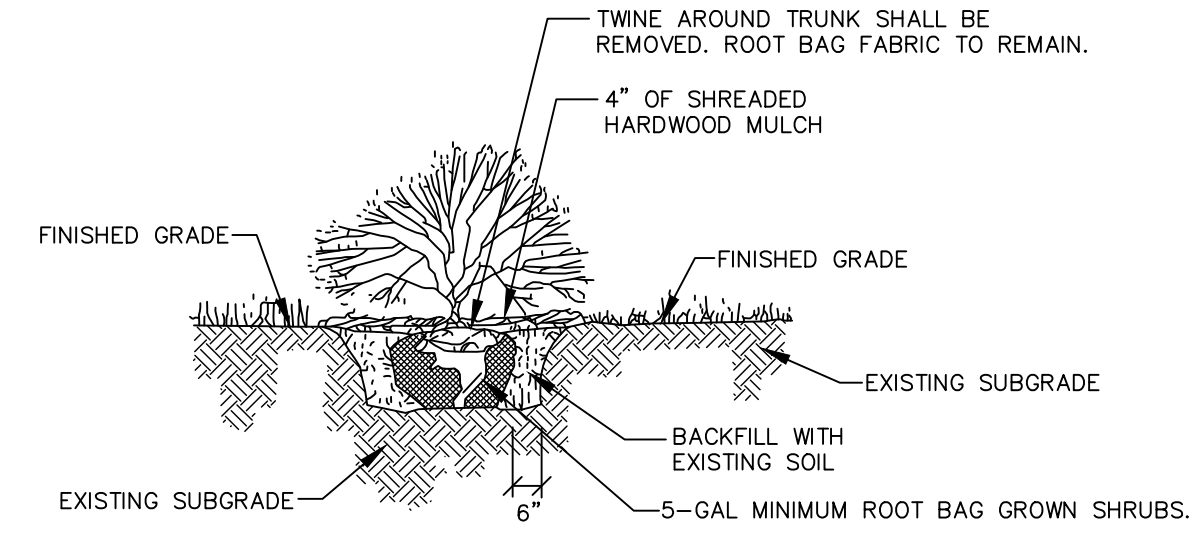
2416 GALEN DRIVE
 CHAMPAIGN, ILLINOIS 61821
 PHONE (217) 351-6268
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**WEST BRANCH DuPAGE RIVER
 STABILIZATION
 NAPERVILLE PARK DISTRICT**

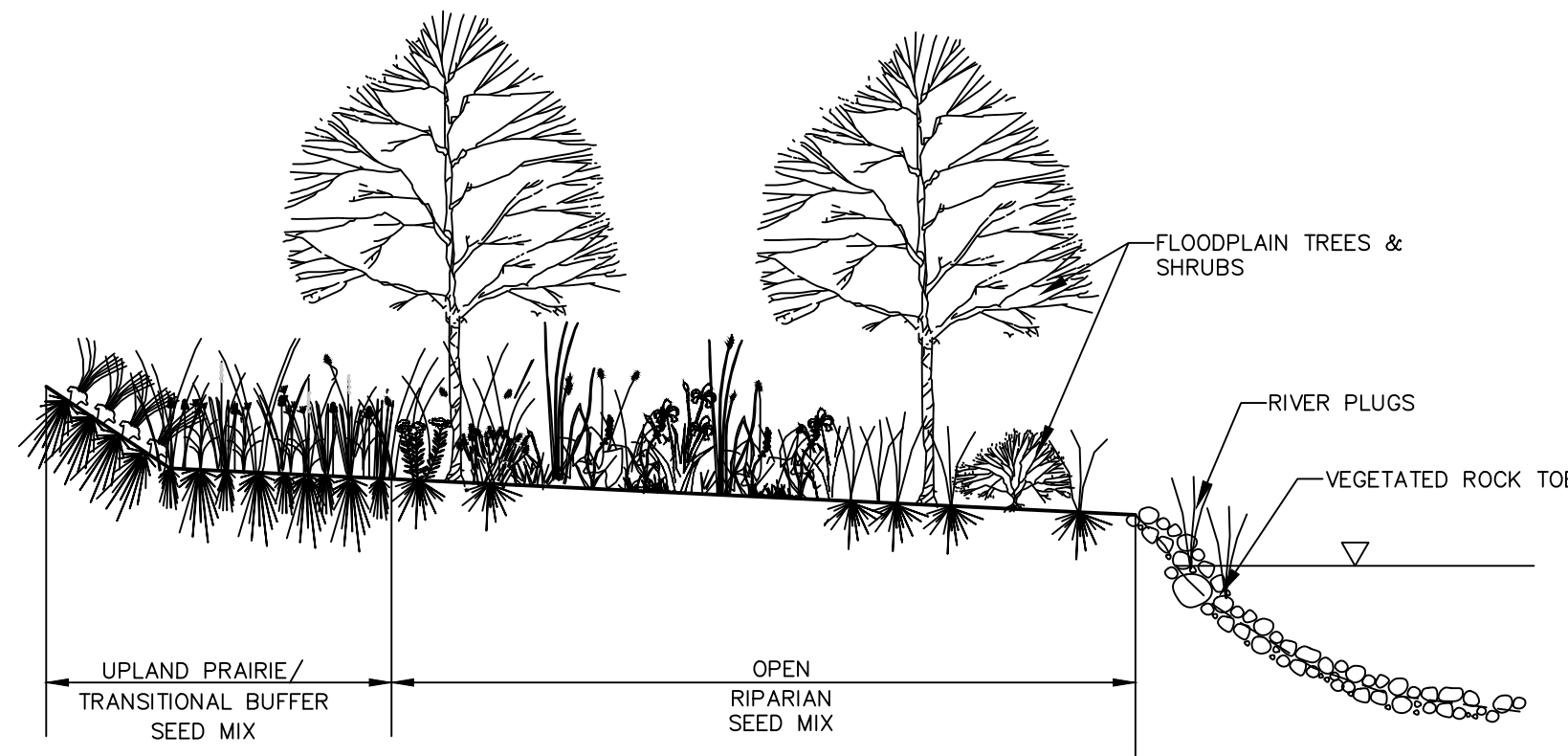
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**PLANTING PLAN
 STA. 110+50 TO STA. 116+13**

SCALE: 1"=20'
 DATE: July, 2024
 JOB NO: W23198
 SHEET 18 OF 18

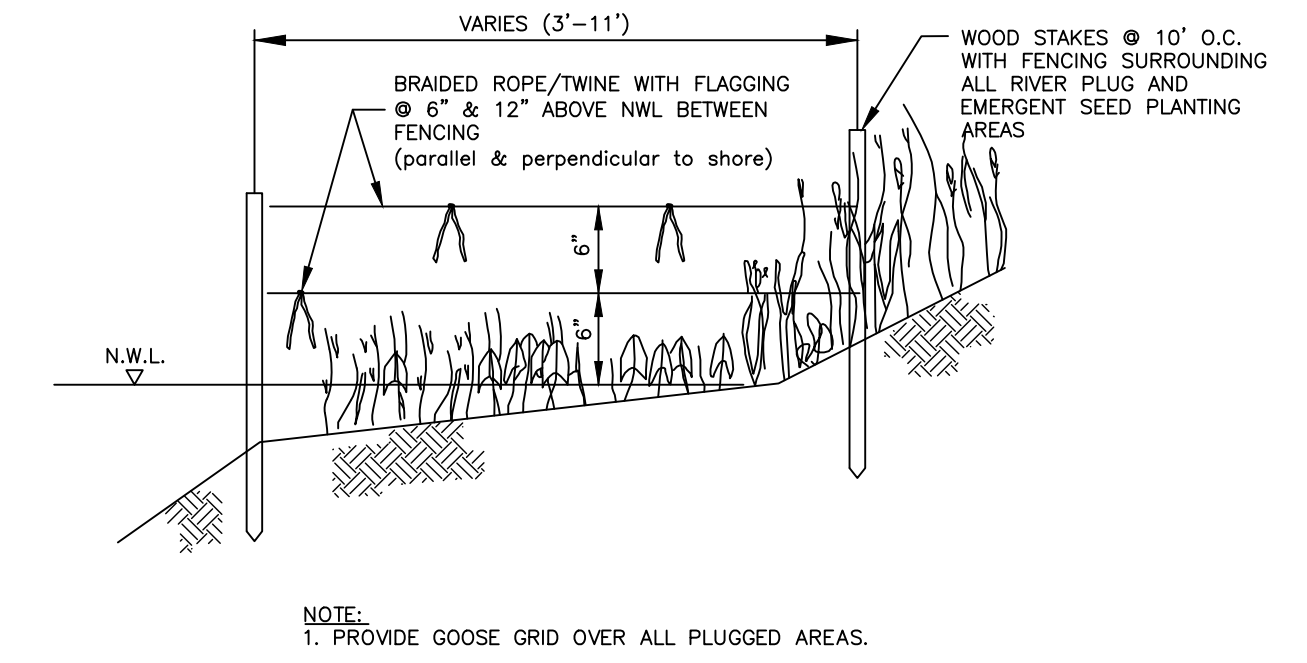
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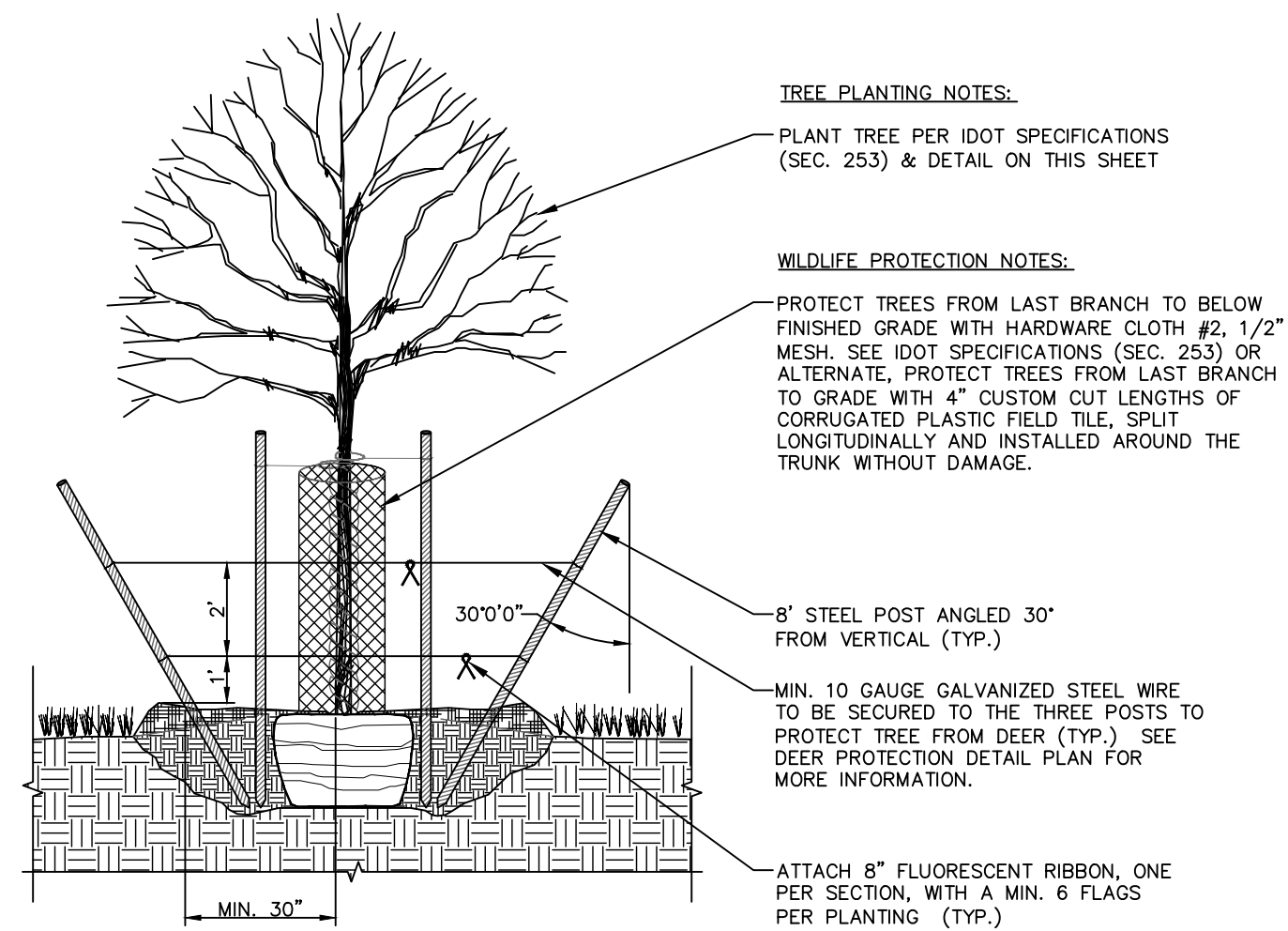
SHRUB DETAIL
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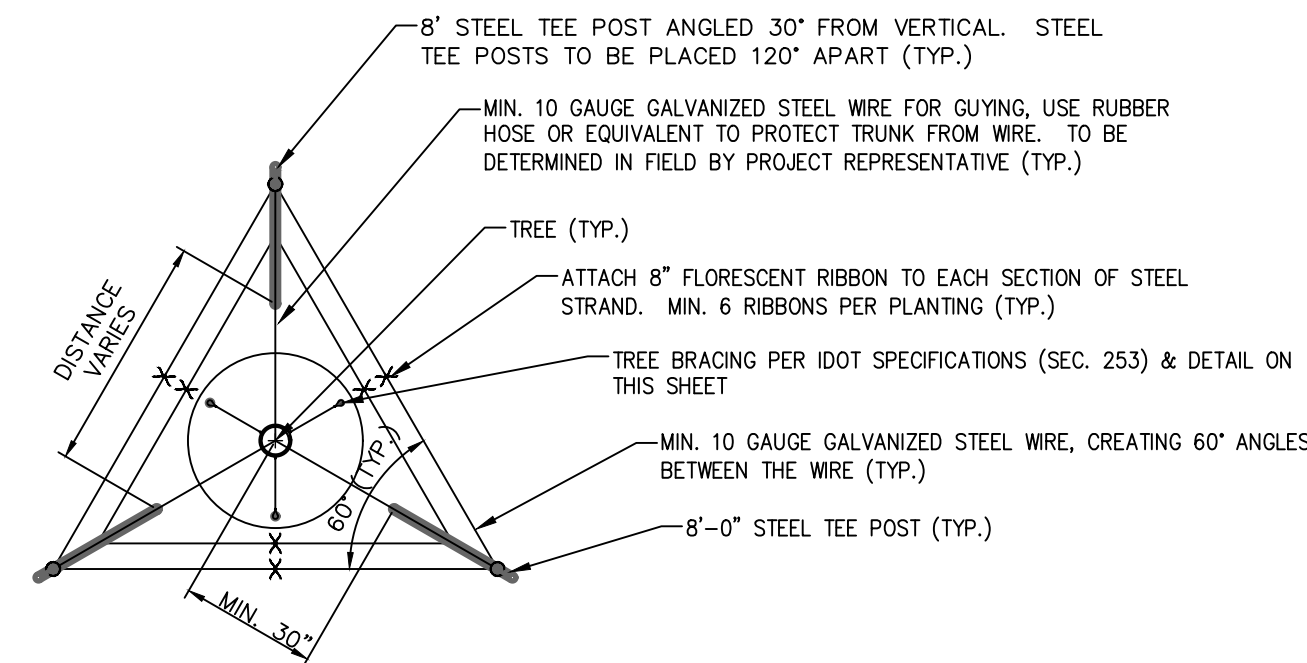
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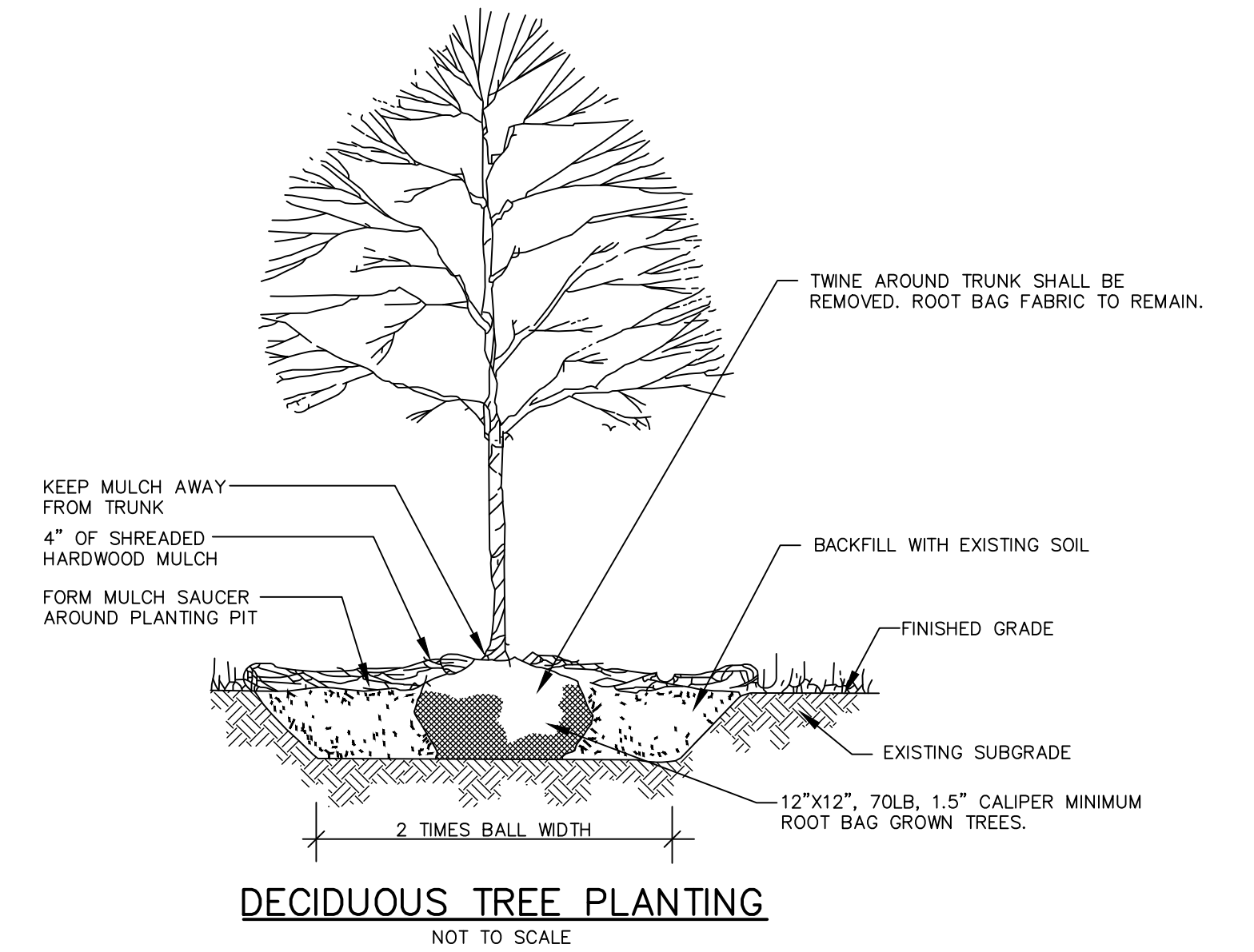
GOOSE GRID BARRIER DETAIL
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WILDLIFE TREE PROTECTION DETAIL (SECTION)
NOT TO SCALE



WILDLIFE TREE PROTECTION DETAIL (PLAN VIEW)
NOT TO SCALE



DECIDUOUS TREE PLANTING
NOT TO SCALE

REVISIONS:					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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CHECKED BY: EP
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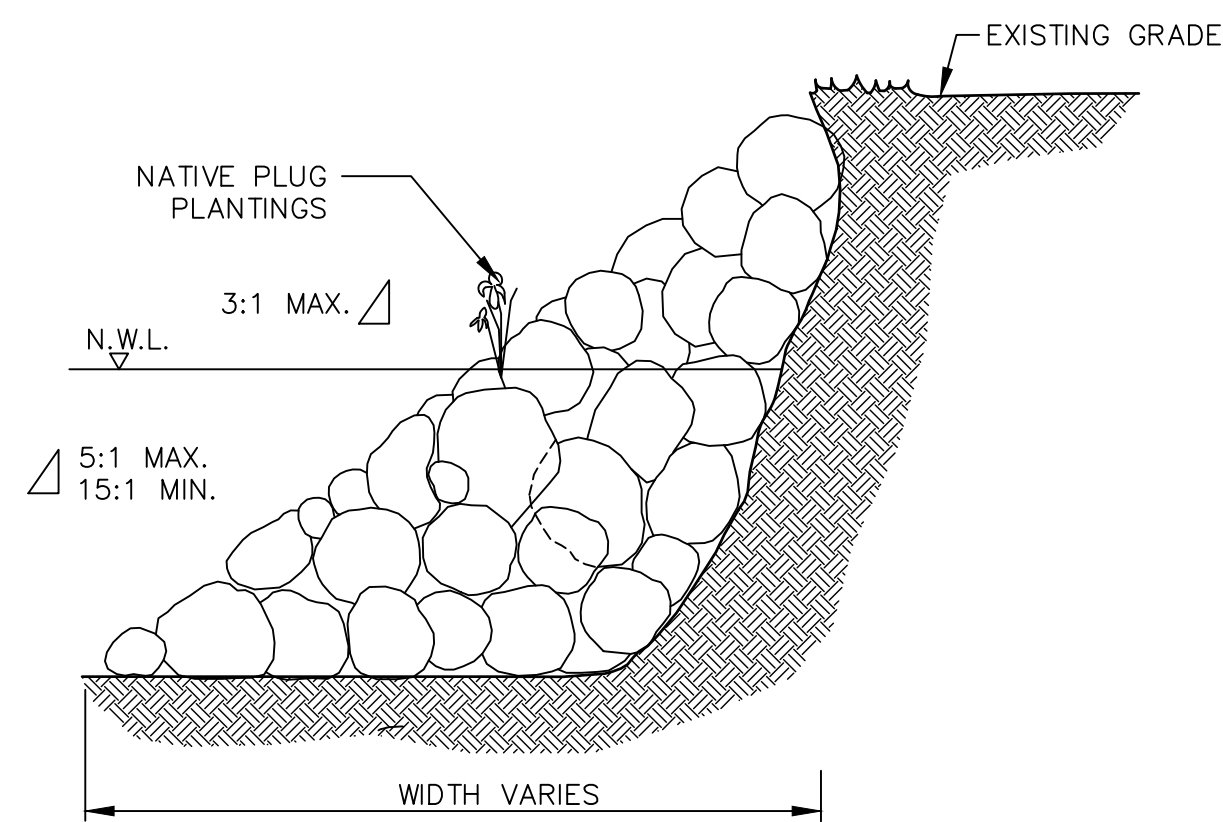
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**WEST BRANCH DuPAGE RIVER
STABILIZATION
NAPERVILLE PARK DISTRICT**

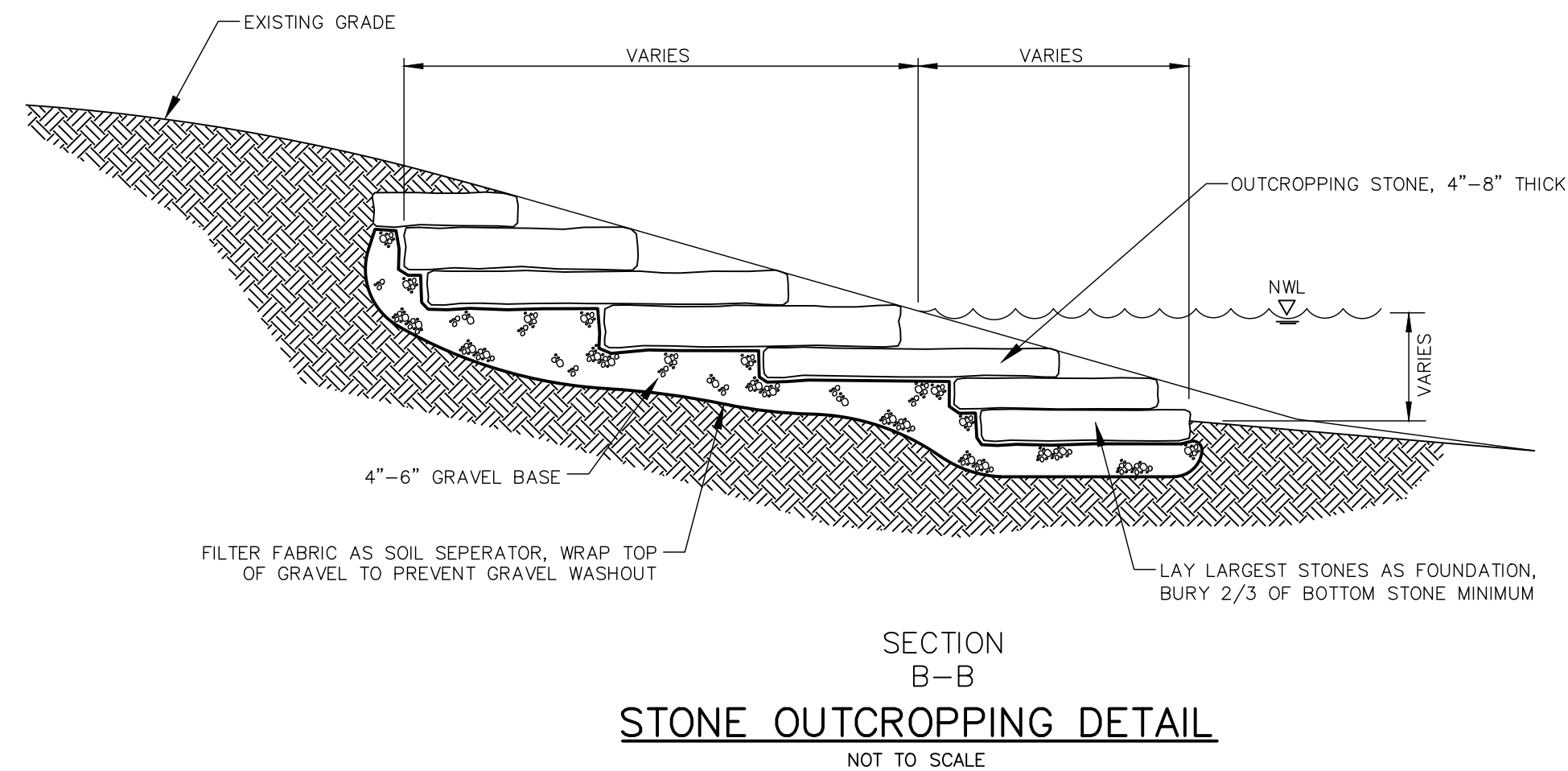
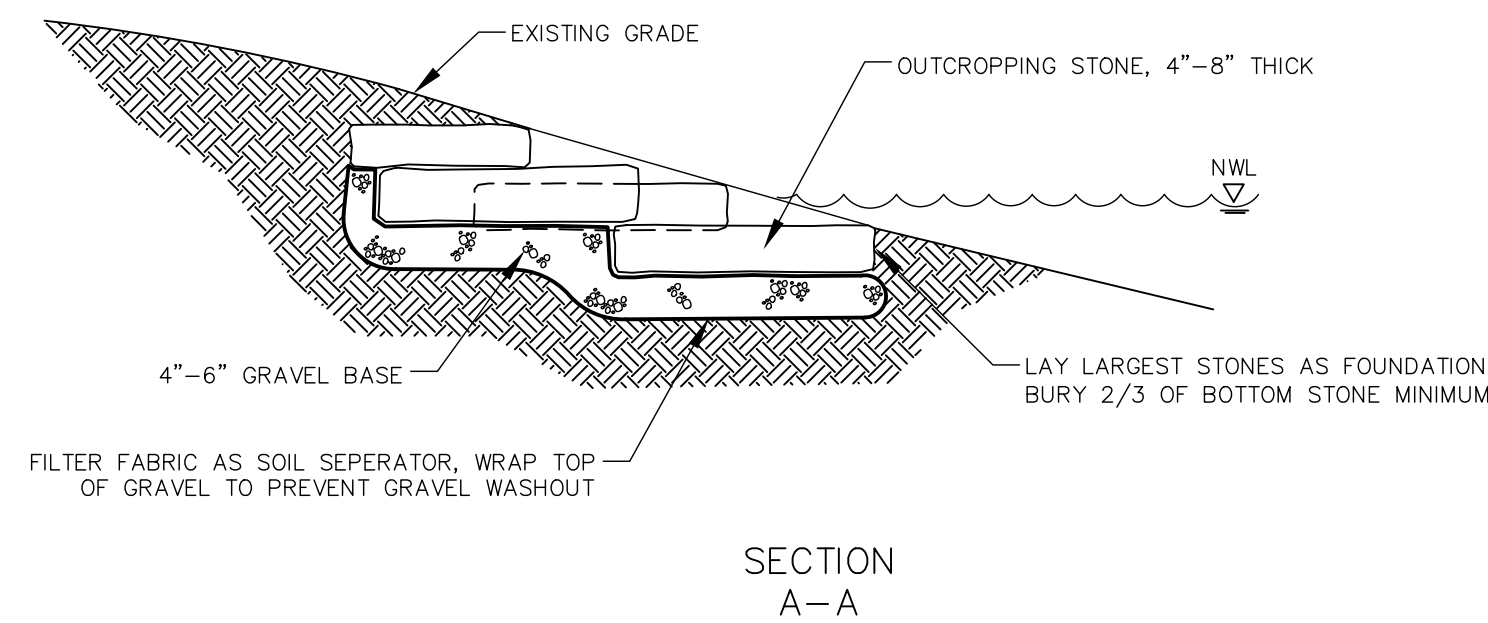
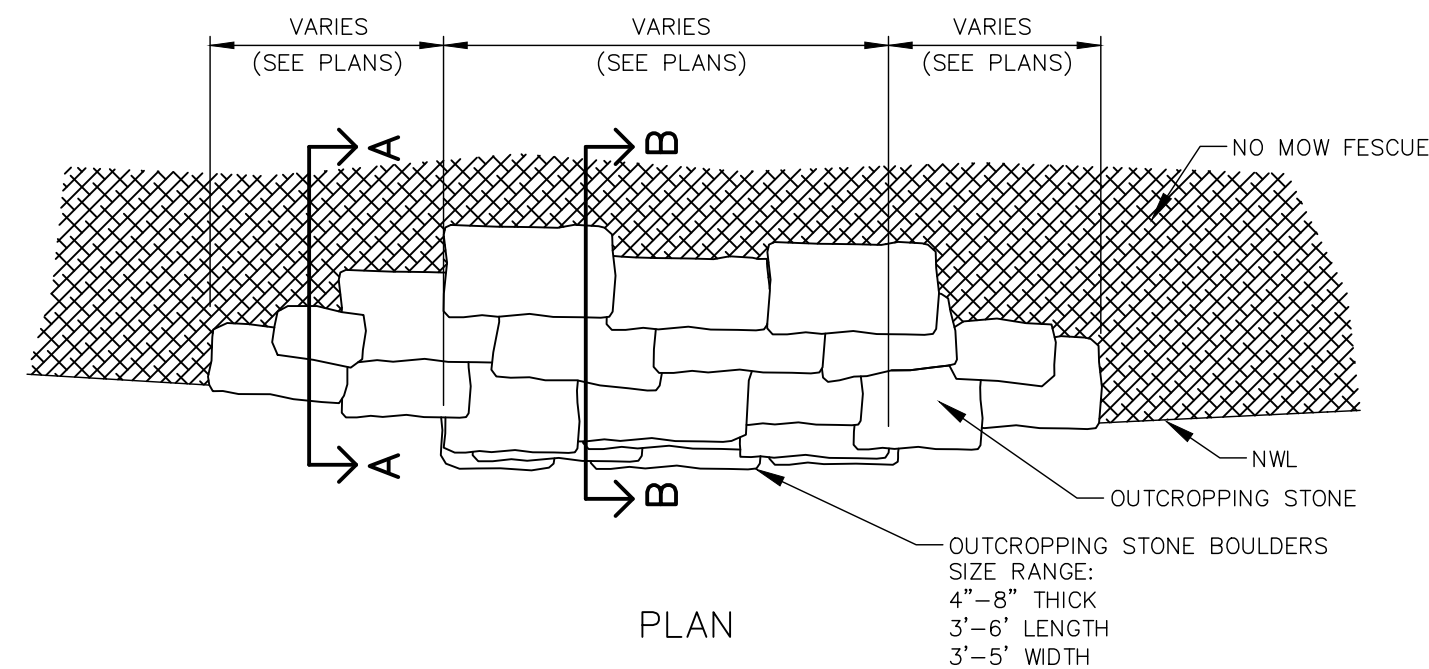
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SCALE:	N.T.S.
DATE:	July, 2024
JOB NO:	W23198
SHEET:	19 OF 19

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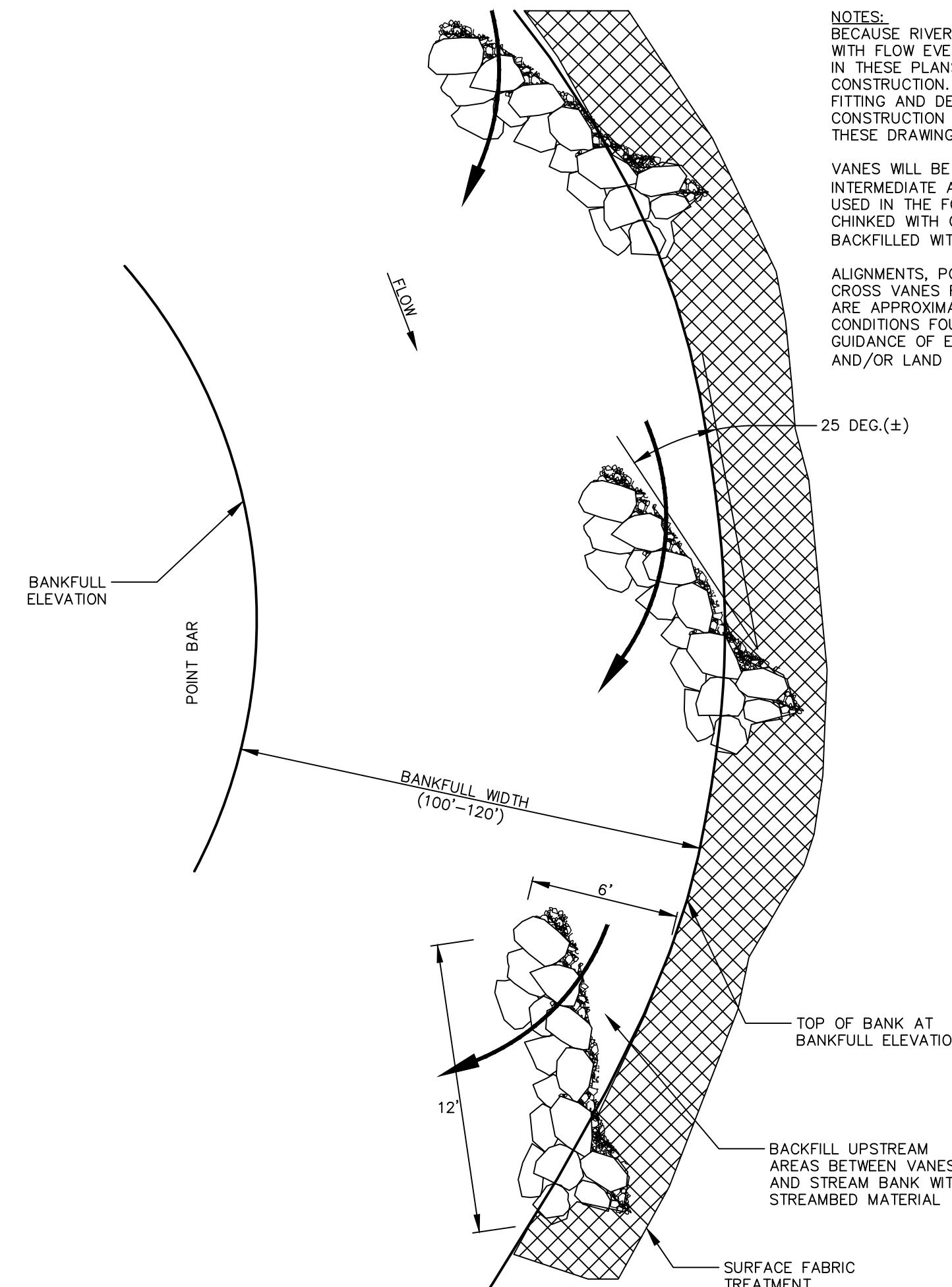
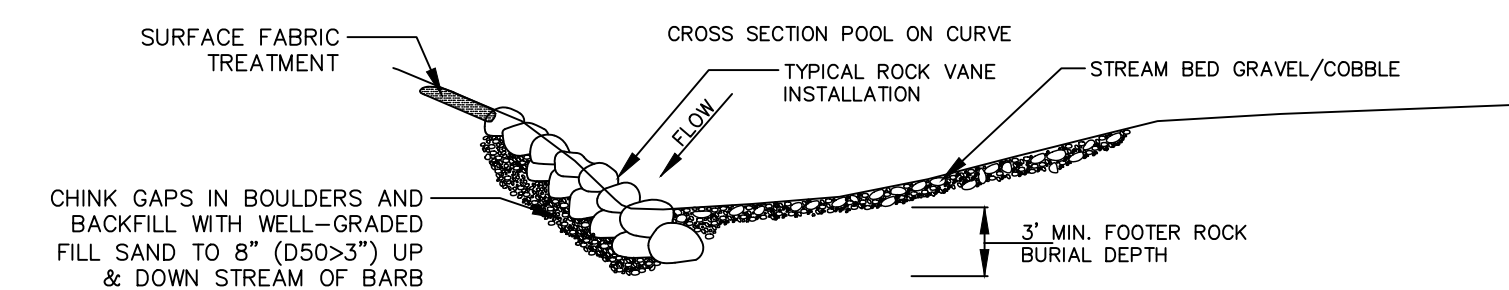


- NOTES:**
- ROCK SLOPE SHALL BE CONSTRUCTED ON STABLE BASE MATERIAL.
 - ROCK SHALL BE 3"-9" DIAMETER COBBLE.
 - ROCK SHALL BE INSTALLED IN AN OSCULATING PATTERN TO CREATE HABITAT.
 - RIVER PLUG PLANTINGS IN ROCK 6" BELOW AND UP TO NORMAL WATER LEVEL.
 - INSTALL SC150BN OR EQUIVALENT ALONG DISTURBED AREAS FROM THE TOE OF SLOPE TO TOP OF BANK.
 - INSTALL S75BN OR EQUIVALENT ALONG DISTURBED AREAS BEYOND TOP OF BANK.

VEGETATED ROCK TOE
NOT TO SCALE



STONE OUTCROPPING DETAIL
NOT TO SCALE



STREAM BARB
NOT TO SCALE

- NOTES:**
- BECAUSE RIVER CHANNEL SHAPE AND DIMENSION CHANGE OVER TIME AND WITH FLOW EVENTS, THE EXISTING TOPOGRAPHY AND CONDITIONS SHOWN IN THESE PLANS MAY NOT REFLECT CONDITIONS FOUND AT THE TIME OF CONSTRUCTION. IT SHOULD BE RECOGNIZED THAT SOME DEGREE OF FIELD FITTING AND DESIGN ADJUSTMENT WILL LIKELY OCCUR DURING CONSTRUCTION THAT MAY SLIGHTLY DEVIATE FROM WHAT IS SHOWN ON THESE DRAWINGS.
- VANES WILL BE CONSTRUCTED OF BOULDER MATERIALS WITH AN INTERMEDIATE AXIS DIAMETER OF 24" (+/-) WITH 36" DIAMETER ROCKS USED IN THE FOOTERS. THE UPSTREAM SIDE OF ALL VANES WILL BE CHINKED WITH COBBLE MATERIALS TO FILL GAPS BETWEEN BOULDERS AND BACKFILLED WITH A WELL GRADED MIX OF SAND TO 8" COBBLE.
- ALIGNMENTS, POINTS OF BANK TIE-IN AND BANK TIE-IN ELEVATIONS OF CROSS VANES RELATIVE TO THE STREAM CHANNEL SHOWN IN DRAWINGS ARE APPROXIMATE ONLY AND MUST BE FIELD-FIT ACCORDING TO SITE CONDITIONS FOUND AT THE TIME OF INSTALLATION PER ON-SITE GUIDANCE OF ENGINEER AND/OR LAND OWNER.

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**WEST BRANCH DuPAGE RIVER
STABILIZATION
NAPERVILLE PARK DISTRICT**

TITLE:	BANK STABILIZATION DETAILS
SCALE:	N.T.S.
DATE:	July, 2024
JOB NO:	W23198
SHEET:	20 OF 20