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STANDARDS

- 000001 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
- 280001 TEMPORARY EROSION CONTROL SYSTEMS
- 701901 TRAFFIC CONTROL DEVICES

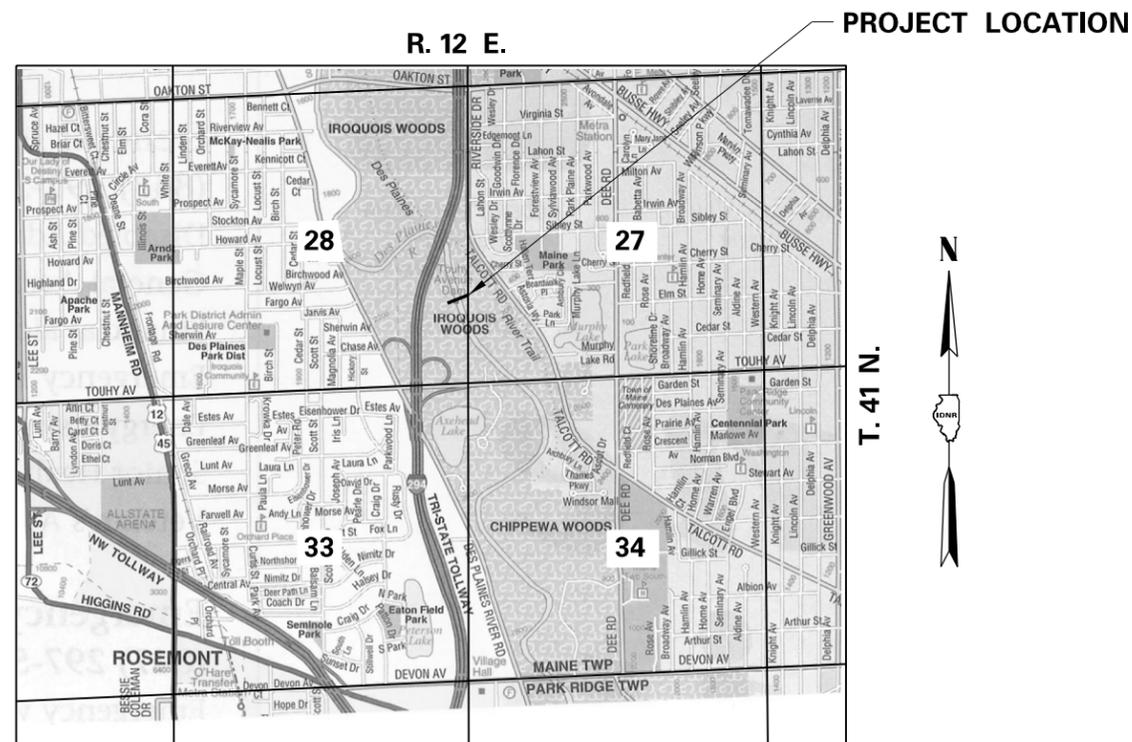
STATE OF ILLINOIS
DEPARTMENT OF NATURAL RESOURCES
OFFICE OF WATER RESOURCES

TOUHY AVENUE DAM REMOVAL

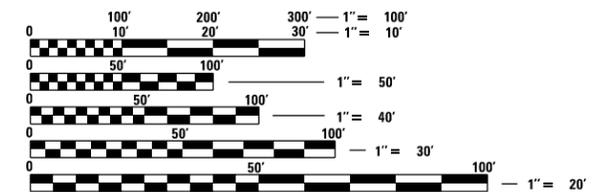
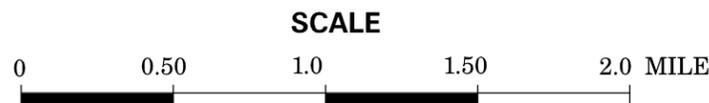
DES PLAINES RIVER
PARK RIDGE, ILLINOIS
COOK COUNTY
FR-439
2021



REGIONAL MAP



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.

J.U.L.I.E.
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
 1-800-892-0123
 OR 811



Ted Montrey 4/23/21

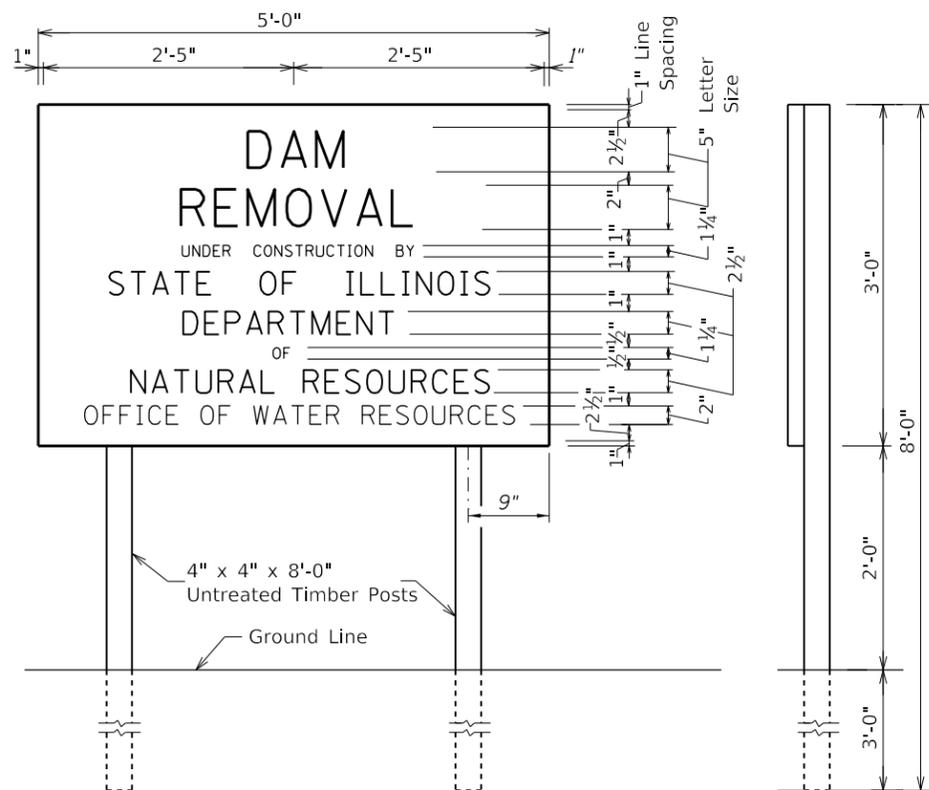
ILLINOIS REGISTERED PROFESSIONAL ENGINEER NO. 062-049591
 LICENSE EXPIRES 11-30-21

SUBMITTED BY: *[Signature]* DATE 4-23-2021
 MANAGER, DIVISION OF CAPITOL PROGRAMS

APPROVED BY: *[Signature]* DATE 4-23-2021
 DIRECTOR, OFFICE OF WATER RESOURCES

SUMMARY OF QUANTITIES			
CODE NO.	PAY ITEM	UNIT	QUANTITY
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNITS	123
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNITS	64
20101100	TREE TRUNK PROTECTION	EACH	37
20300100	CHANNEL EXCAVATION	CU YD	128
25000115	SEEDING, CLASS 1B	ACRE	0.77
25100105	MULCH, METHOD 1	ACRE	0.77
28000400	PERIMETER EROSION BARRIER	FOOT	3142
28100805	STONE DUMPED RIPRAP, CLASS A3	TON	130
28200200	FILTER FABRIC	SQ YD	280
* 50102400	CONCRETE REMOVAL	L SUM	1
67100100	MOBILIZATION	L SUM	1
* NR105001	CONSTRUCTION STAKING	L SUM	1
* NR280005	FLOATING SILT CURTAIN, TYPE 3	L SUM	1
* NR281000	CAUSEWAY	L SUM	1
* NR281001	AGGREGATE FOR TEMPORARY ACCESS	L SUM	1
* NR513000	TIMBER MATTING	L SUM	1
* NR704001	TRAFFIC CONTROL AND PROTECTION, SPECIAL	L SUM	1
* NR720001	WOOD INFORMATION SIGNS	EACH	3

* INDICATES NON-STANDARD ITEM COVERED BY SPECIAL PROVISIONS



SIGN NOTES

SIGN SHALL BE MADE OF 3/4" PLYWOOD, OXBOARD, OR OF METAL (18 GA.). THE CONTRACTOR SHALL FURNISH ALL MATERIAL AND LABOR FOR CONSTRUCTING AND ERECTING THE SIGN. THE SIGN SHALL BE PLACED PRIOR TO THE STARTING OF ACTUAL CONSTRUCTION OPERATIONS AS DIRECTED BY THE ENGINEER. BEFORE ANY SIGN IS ERECTED, IT SHALL BE APPROVED BY THE ENGINEER AS TO ITS APPEARANCE AND QUALITY OF CONSTRUCTION. THE SIGN SHALL REMAIN IN PLACE AND SHALL BE MAINTAINED IN SATISFACTORY CONDITION UNTIL THE PROJECT IS ACCEPTED BY THE DEPARTMENT. THE CONTRACTOR SHALL THEN REMOVE THE SIGN AND THE MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

THE LETTERS ON THE SIGN SHALL BE BLACK MECHANICAL STYLE ON A WHITE BACKGROUND AND APPROPRIATE BORDER LINES.

PAID AS WOOD INFORMATION SIGNS.

GENERAL NOTES

- ALL ELEVATIONS REFER TO N.G.V.D. (NATIONAL GEODETIC VERTICAL DATUM) 1929. ALL COORDINATES ARE NAD (NORTH AMERICAN DATUM) 1983 COORDINATES.
- THE CONTRACTOR SHALL FURNISH, ERECT, AND WHEN DIRECTED BY THE ENGINEER, COMPLETELY REMOVE THREE WOOD INFORMATION SIGNS. THE EXACT LOCATION OF THE SIGN SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD. SEE SHEET 3 FOR APPROXIMATE LOCATIONS.
- ALL LATERAL DRAINAGE THAT EXISTS PRIOR TO CONSTRUCTION SHALL BE RESTORED TO PRECONSTRUCTION CONDITION AND AS DIRECTED BY THE ENGINEER. UNLESS OTHERWISE SPECIFIED ALL COSTS OF RESTORATION SHALL BE CONSIDERED INCLUDED IN THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
- ALL CONSTRUCTION OPERATIONS SHALL BE CONTAINED WITHIN THE PROPERTY LINES OR WORK LIMITS AS INDICATED ON THE PLANS AND AS DIRECTED AND ACCEPTABLE TO THE ENGINEER. IT SHALL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR TO SECURE ALL RIGHTS OF INGRESS AND EGRESS TO SAID RIGHT-OF-WAY INCLUDING THE SATISFACTORY PROTECTION AND RESTORATION OF PROPERTY AS REQUIRED IN ART. 107.20 AND 107.23 OF THE STANDARD SPECIFICATIONS. COST OF RESTORATION IS INCLUDED IN AGGREGATE FOR TEMPORARY ACCESS.
- THE CONTRACTOR SHALL CALL J.U.L.I.E. (800-892-0123) FOR THE LOCATION OF EXISTING UTILITIES 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
- ALL EXCAVATION AND UNSUITABLE MATERIALS INCLUDING ROCK EXCAVATION IN CHANNEL SHALL BE DISPOSED OF AT LOCATIONS PROVIDED BY THE CONTRACTOR AT CONTRACTORS EXPENSE AND AT LOCATIONS INSPECTED AND APPROVED BY THE ENGINEER.
- THE CONTRACTOR IS REMINDED TO PROTECT AND RESTORE AT THE CONTRACTOR'S EXPENSE, IN ACCORDANCE WITH ARTICLE 107.20 OF THE STANDARD SPECIFICATIONS, ANY PRIVATE OR PUBLIC PROPERTY, INCLUDING ACCESS ROADS, UTILITIES AND WETLANDS, WHICH MAY BE DAMAGED OR DESTROYED DUE TO CONSTRUCTION OPERATIONS.
- ALL MATERIAL EXCAVATED, EXCEPT ROCK, FROM THE EXISTING CHANNEL MUST BE DEPOSITED IN A SELF-CONTAINED AREA IN COMPLIANCE WITH ALL STATE STATUTES, REGULATIONS AND PERMIT REQUIREMENTS WITH NO DISCHARGE TO PUBLIC WATERS UNLESS A PERMIT HAS BEEN ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY.
- OVERHEAD WIRE CLEARANCE SHALL BE VERIFIED BY CONTRACTOR IN FIELD PRIOR TO MOBILIZING.
- IT IS RECOMMENDED THE DAM REMOVAL BE CONDUCTED DURING PERIODS OF LOW FLOW. HISTORICALLY, LOW FLOW PERIODS OCCUR FROM JULY TO JANUARY.
- SITE TOPOGRAPHIC CONDITIONS SHOWN ON THESE DRAWINGS ARE FROM LIDAR AND FIELD SURVEY AND REPRESENT CONDITIONS EXISTING AT THAT TIME. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING STRUCTURES ARE FROM SURVEY DATA AND EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT BID PRICE FOR THE WORK.
- ALL CONSTRUCTION ACTIVITIES SHALL FOLLOW ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- ALL CONSTRUCTION ENTRANCES, STAGING AREAS & ACCESS ROADWAYS WILL BE MAINTAINED SUCH THAT IT WILL PREVENT TRACKING OR FLOW OF SEDIMENT ON PUBLIC ROADS. THIS MAY REQUIRE A STABILIZED CONSTRUCTION ENTRANCE AND OR PERIODIC TOP DRESS OF THE CONSTRUCTION ENTRANCES AS NEEDED AND AS DIRECTED BY THE ENGINEER.
- CLEARING AND TREE REMOVAL WORK SHALL BE LIMITED TO THE FOLLOWING TIME FRAME: AUGUST 1 THROUGH MAY 31.

BENCHMARKS

- BM# V2 CHISELED "□" RIGHT DOWNSTREAM WALKWAY CORNER ON TOUHY AV. BRIDGE OVER DES PLAINES RIVER. N 1949349.75 E 1111154.22 ELEV. 634.48
- BM# V3 CHISELED "□" LEFT DOWNSTREAM ABUTMENT/WING ON TOUHY AV. DAM, DES PLAINES RIVER. N 1947812.68 E 1111531.76 ELEV. 620.94
- BM# V4 TOLLWAY DISK IN N.W. CORNER OF A CONCRETE VAULT LID (6'x6'), ±35' FROM LEFT BANK DES PLAINES RIVER ±125' DOWNSTREAM OF I-294 BRIDGE OVER DES PLAINES RIVER. N 1949174.29 E 1111254.82 ELEV. 637.83

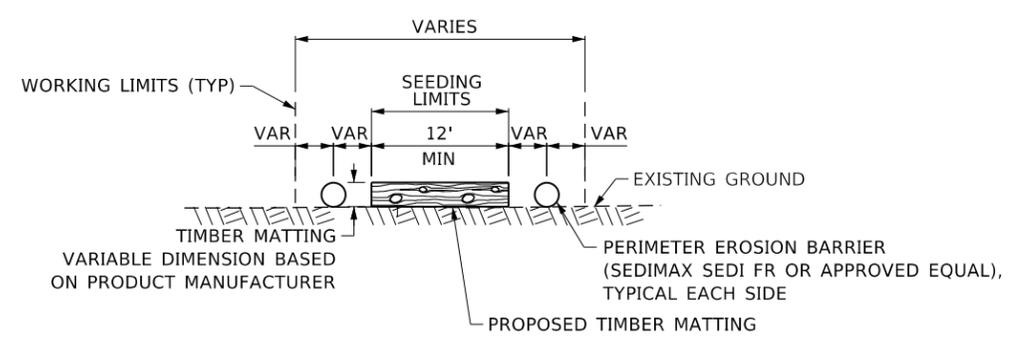
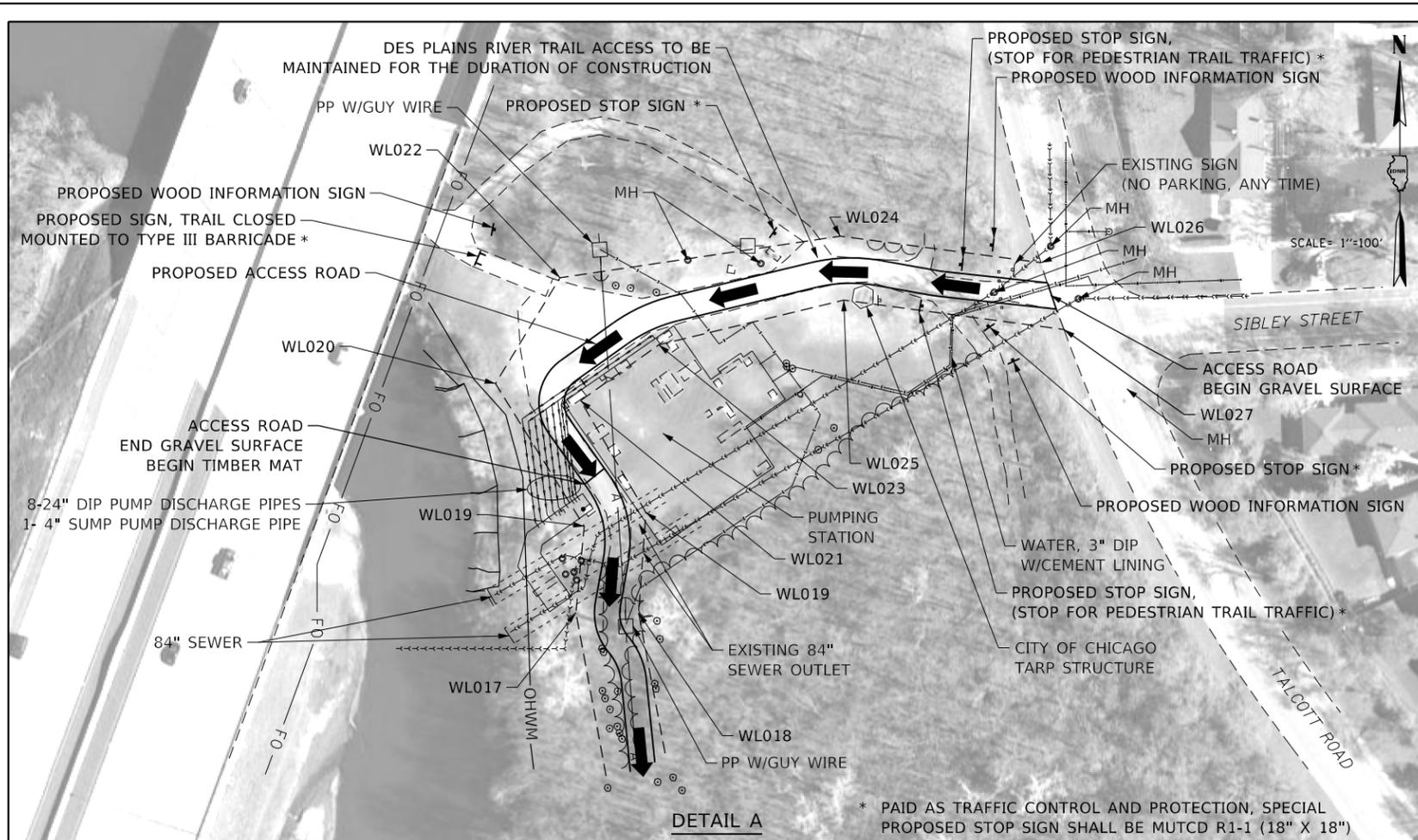
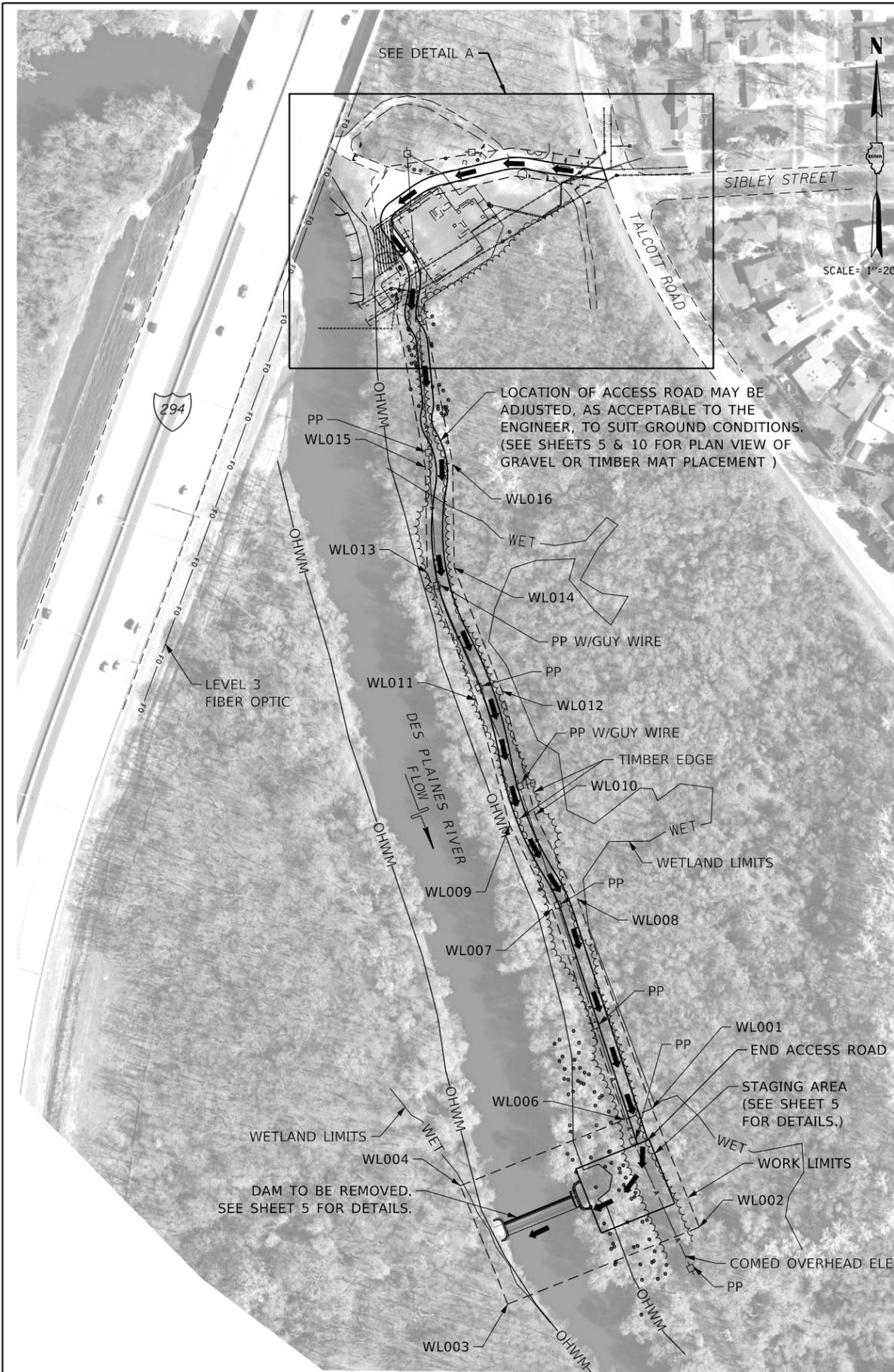
UTILITY REFERENCE TABLE

J.U.L.I.E.	CALL 48 HOURS PRIOR TO CONSTRUCTION	(800) 892-0123
CABLE TELEVISION/ TELEPHONE	WIDE OPEN WEST PAUL FLINKOW	(630) 536-3139
TELEPHONE	AT&T/DISTRIBUTION SHARON TILJAK	(630) 437-2212 (708) 709-2523
TELEPHONE	MCI DEAN BOYERS	(972) 729-6322
TELEPHONE	SPRINT JAMES BURTON	(708) 955-6659
ELECTRICITY	COMED/JOLIET	(630) 576-7094
CABLE TELEVISION	COMCAST MARTHA GIERAS	(630) 600-6352
CITY	CITY OF DES PLAINES TIM OAKLEY	(847) 391-5390
FIBER OPTICS	G4S TECHNOLOGY, LLC	(847) 391-5390
FIBER OPTICS	LEVEL 3 COMMUNICATIONS NETWORK RELOCATIONS	(877) 366-8344 X2
FIBER OPTICS	ATT / T-TCG JIM EVERETT	(770) 750-6181
INTERNET	WINDSTREAM KDL, INC. JOEL SCHROEDER	(800) 289-1901
WATER & SEWER	METROPOLITAN WATER RECLAMATION DISTRICT CHICAGO JOE SCHUESSLER	(312) 751-3184
GAS	NICOR GAS UTILITY CONSULTANT GO3W	(630) 388-2362
CITY	CITY OF PARK RIDGE SARAH MITCHELL	(847) 318-5455
UTILITY LOCATE	USIC LOCATING SERVICE-ROCKFORD	INFORMATION NOT PROVIDED

MEDIAN MONTHLY FLOW VALUES FOR THE USGS GAGE #05529000 (CALCULATION PERIOD: 1979-01-01 TO 2019-01-31)

MONTH	MEDIAN MONTHLY FLOW (CFS)
JANUARY	315
FEBRUARY	438
MARCH	733
APRIL	793
MAY	589
JUNE	441
JULY	308
AUGUST	233
SEPTEMBER	220
OCTOBER	243
NOVEMBER	302
DECEMBER	397

2 YEAR HW ELEV= 622.72, VELOCITY= 2.76 FT/S



TYPICAL SECTION OF TIMBER MAT ACCESS ROAD
(NOT DRAWN TO SCALE)

LEGEND

— WET —	WETLAND LIMITS
~ ~ ~	TREE LINE
□	POWER POLE (PP)
→	SITE ACCESS TRAFFIC
— OHWM —	ORDINARY HIGH WATER MARKS

WORK LIMITS
COORDINATE TABLE

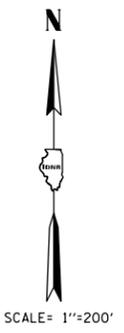
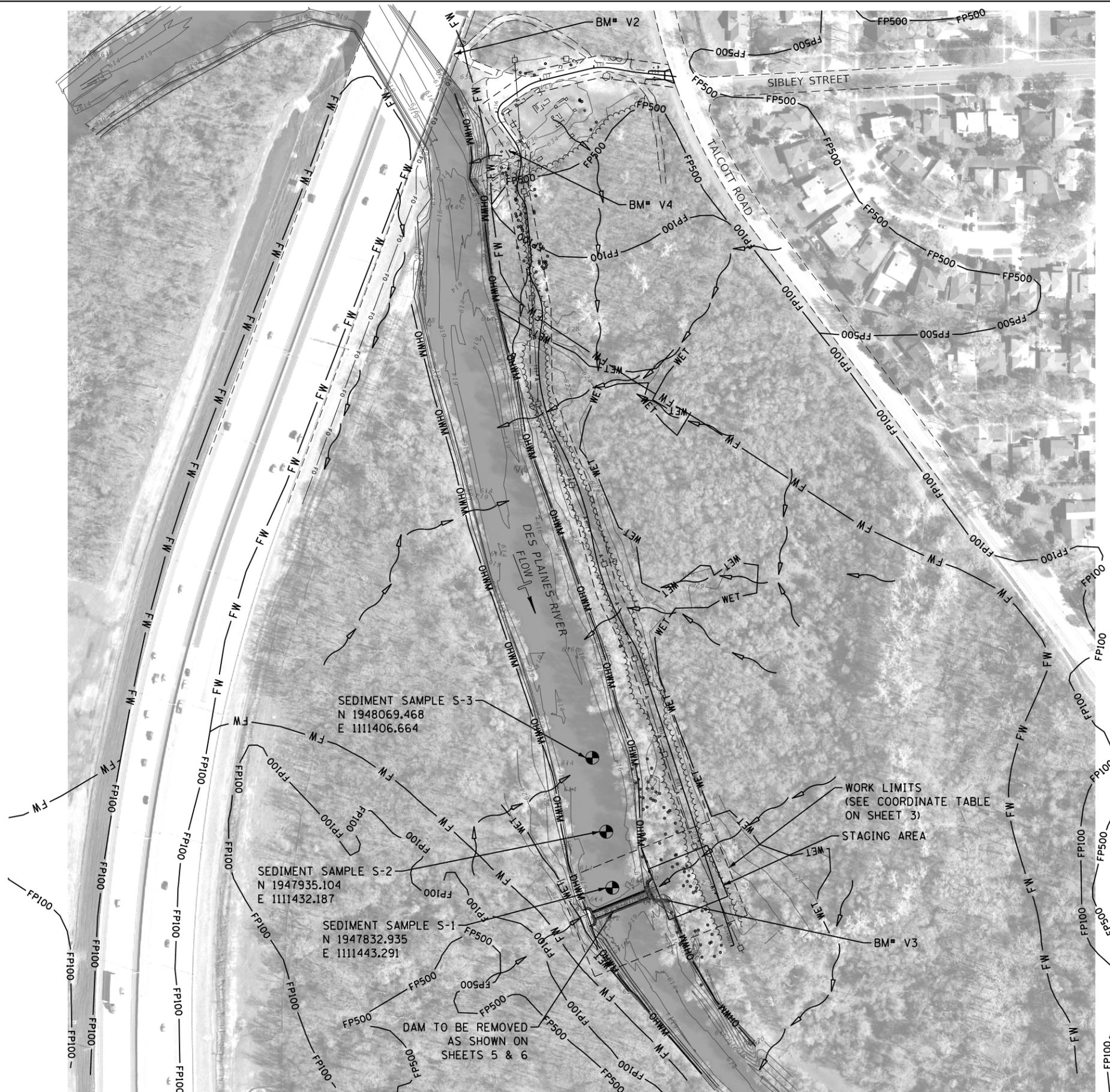
POINT NUMBER	NORTHING	EASTING
WL001	1947954.91	1111620.81
WL002	1947783.21	1111689.70
WL003	1947671.51	1111411.27
WL004	1947843.21	1111342.39
WL005	1947938.89	1111580.88
WL006	1948244.40	1111475.47
WL007	1948258.62	1111512.86
WL008	1948365.97	1111414.10
WL009	1948380.96	1111451.19
WL010	1948547.17	1111365.48
WL011	1948560.11	1111403.33
WL012	1948731.96	1111294.36
WL013	1948739.17	1111333.71
WL014	1948884.63	1111291.65
WL015	1948888.86	1111331.42
WL016	1949108.80	1111250.08
WL017	1949108.42	1111290.08
WL018	1949163.61	1111255.49
WL019	1949172.27	1111294.54
WL020	1949253.95	1111199.08
WL021	1949243.22	1111253.03
WL022	1949321.06	1111240.01
WL023	1949278.58	1111302.78
WL024	1949347.52	1111418.17
WL025	1949306.89	1111420.31
WL026	1949330.66	1111545.64
WL027	1949288.38	1111560.28

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9:59:49 AM	DRAWN - JTC	REVISED
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200.0000' / in.	DATE - 04-28-2021	REVISED

STATE OF ILLINOIS
DEPARTMENT OF NATURAL RESOURCES
OFFICE OF WATER RESOURCES

TOUHY AVENUE DAM REMOVAL
SITE ACCESS PLAN

COUNTY	TOTAL SHEETS	SHEET NO.
COOK	15	3
PROJECT FR-439		



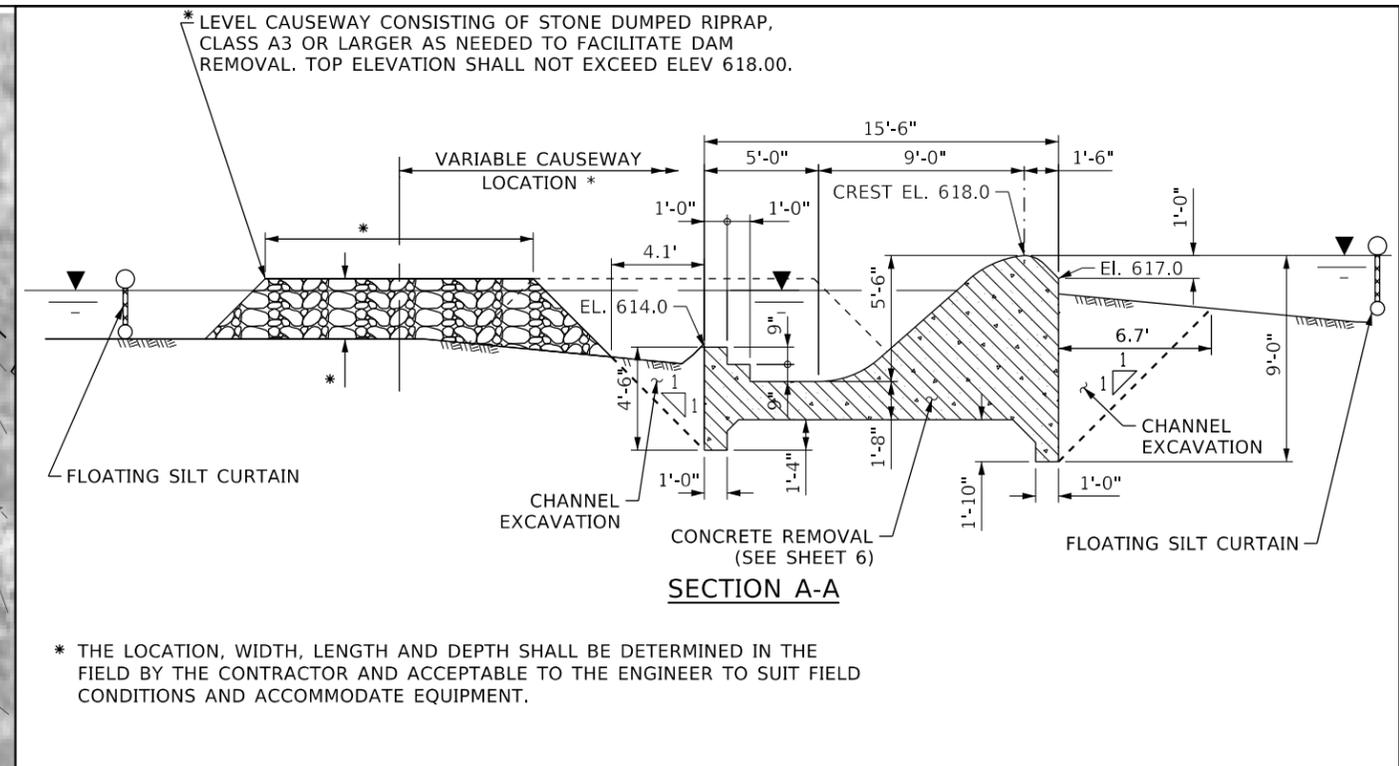
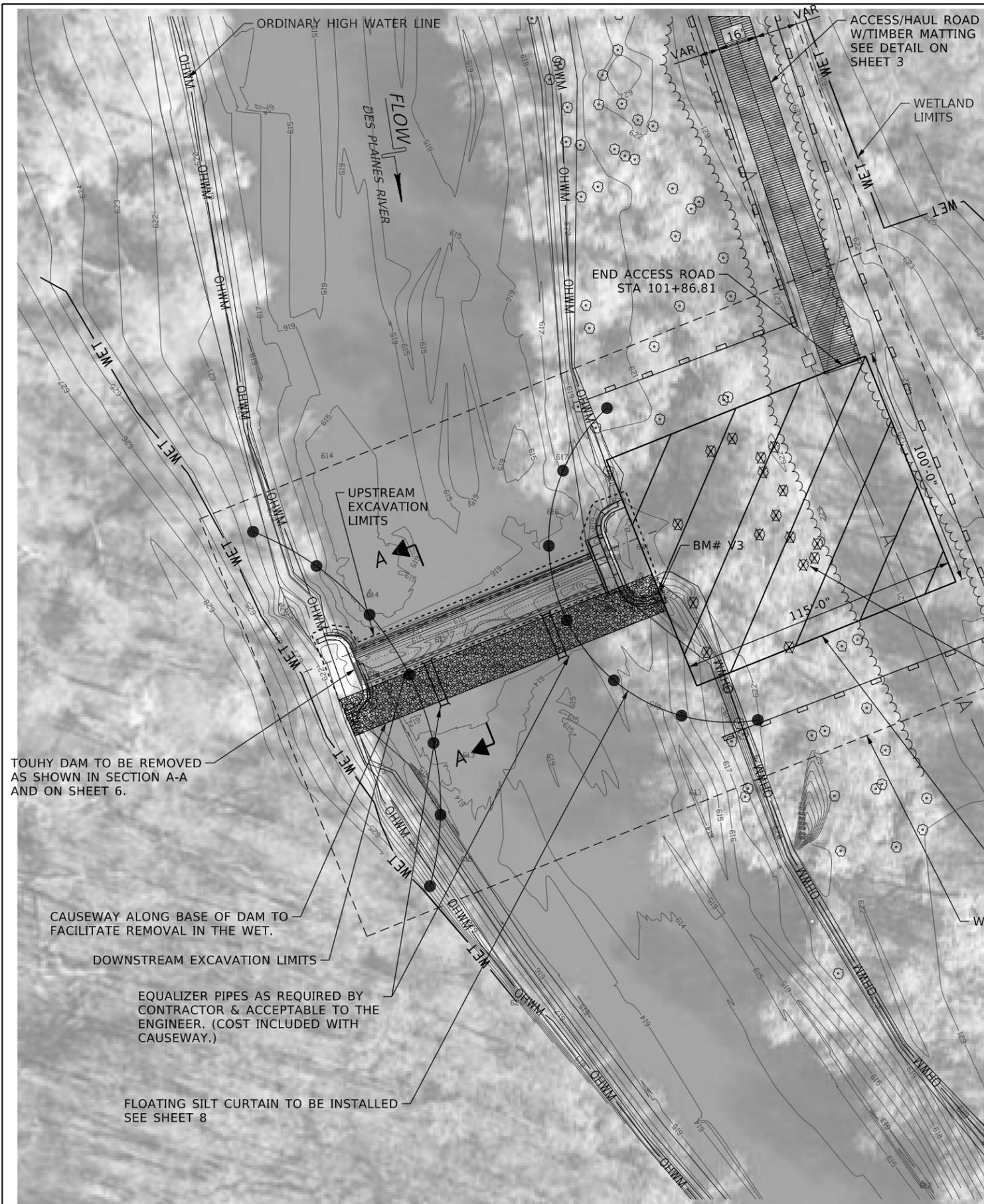
- LEGEND**
- RIVER FLOW DIRECTION
 - WATER FLOW ARROWS
 - FW FLOODWAY BOUNDARY
 - FP100 100 YEAR FLOODPLAIN BOUNDARY
 - FP500 500 YEAR FLOODPLAIN BOUNDARY
 - 630 EXISTING CONTOURS
 - WORK LIMITS
 - SEDIMENT SAMPLE (SEE SPECIAL PROVISIONS)

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200.0000' / in.	DATE - 04-28-2021	REVISED

STATE OF ILLINOIS
DEPARTMENT OF NATURAL RESOURCES
OFFICE OF WATER RESOURCES

TOUHY AVENUE DAM REMOVAL
EXISTING SITE PLAN

COUNTY	TOTAL SHEETS	SHEET NO.
COOK	15	4
PROJECT FR-439		



* THE LOCATION, WIDTH, LENGTH AND DEPTH SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR AND ACCEPTABLE TO THE ENGINEER TO SUIT FIELD CONDITIONS AND ACCOMMODATE EQUIPMENT.

CAUSEWAY NOTES :
 A TEMPORARY CAUSEWAY IS FOR CONTRACTOR'S USE ONLY AND SHALL BE CONSTRUCTED ON THE DOWNSTREAM SIDE OF THE DAM TO ALLOW ACCESS FOR REMOVAL EQUIPMENT. EQUIPMENT SHALL BE AVAILABLE AT ALL TIMES TO BREACH CAUSEWAY SHOULD HIGH WATER OCCUR, TO ENSURE OVERBANK FLOW DOES NOT OCCUR WITHIN THE WORK ZONE. REGRADE AND STABILIZE CAUSEWAY AREAS ONCE REMOVED. THE CAUSEWAY SHALL BE CONSTRUCTED OF CLEAN ROCK. CAUSEWAY MATERIAL CAN BE USED TO FILL DEMOLISHED ABUTMENT VOIDS. EXCESS CAUSEWAY MATERIAL SHALL BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR AND PROPERLY DISPOSED OF IN ACCORDANCE WITH ALL STATE AND FEDERAL GUIDELINES.

BILL OF MATERIAL

CAUSEWAY	L	SUM	1
TIMBER MATTING	L	SUM	1
CHANNEL EXCAVATION	CU	YD	128

- NOTES:**
1. FLAGMEN TO BE PROVIDED BY THE CONTRACTOR WHEN CONTRACTOR OR SUB-CONTRACTOR VEHICLES ENTER OR EXIT WORK AREAS. COST INCLUDED IN TRAFFIC CONTROL AND PROTECTION, SPECIAL.
 2. NO EARTHEN FILL SHALL BE PLACED INTO THE RIVER OR ON CAUSEWAY.
 3. ALL BANK WORK SHALL BE DONE INSIDE OF FLOATING SILT CURTAIN.

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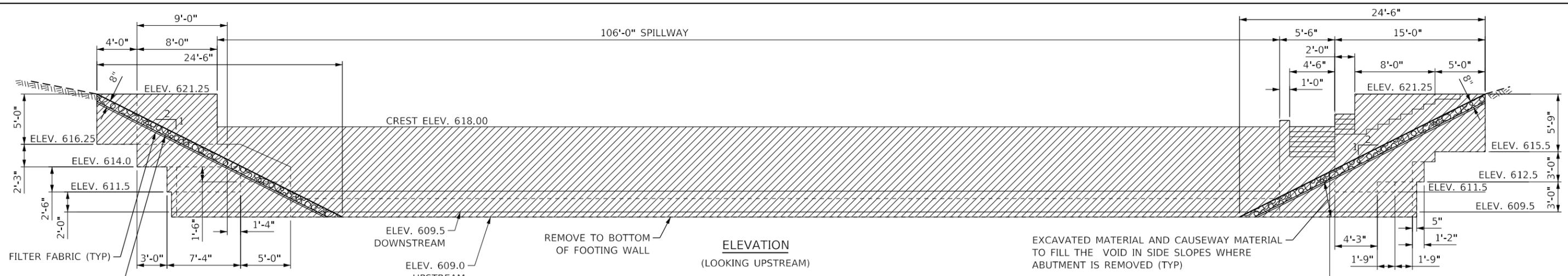
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**STATE OF ILLINOIS
 DEPARTMENT OF NATURAL RESOURCES
 OFFICE OF WATER RESOURCES**

**TOUHY AVENUE DAM REMOVAL
 DAM REMOVAL PLAN**

COUNTY	TOTAL SHEETS	SHEET NO.
COOK	15	5

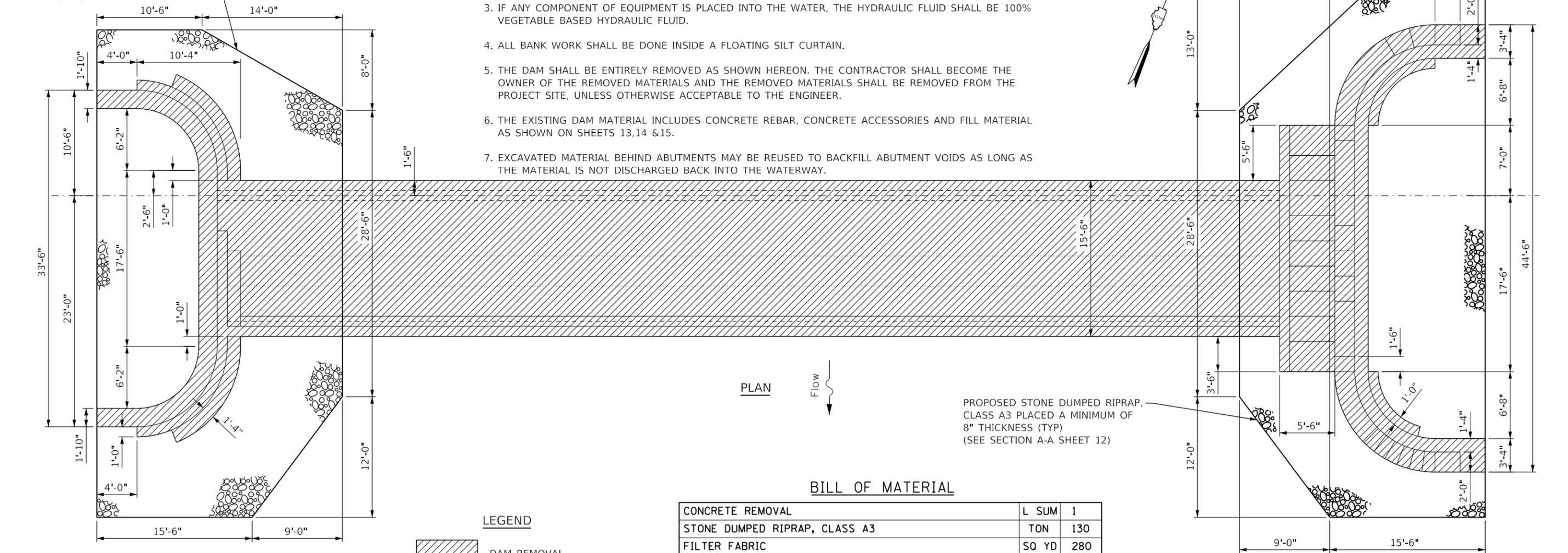
PROJECT FR-439



FILTER FABRIC (TYP)
 STONE DUMPED RIPRAP, CLASS A3 PLACED A MINIMUM OF 8" THICKNESS (TYP)

- NOTES:**
1. A SMALL NOTCH CAN BE MADE IN THE DAM TO STOP THE FLOW OVER THE DAM CREST. PROPOSED NOTCH DIMENSIONS SHALL BE ACCEPTABLE TO THE ENGINEER.
 2. DAM MATERIAL REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR, AND SHALL BE REMOVED FROM PROJECT SITE AND PROPERLY DISPOSED OF IN ACCORDANCE WITH ALL STATE AND FEDERAL GUIDELINES.
 3. IF ANY COMPONENT OF EQUIPMENT IS PLACED INTO THE WATER, THE HYDRAULIC FLUID SHALL BE 100% VEGETABLE BASED HYDRAULIC FLUID.
 4. ALL BANK WORK SHALL BE DONE INSIDE A FLOATING SILT CURTAIN.
 5. THE DAM SHALL BE ENTIRELY REMOVED AS SHOWN HEREON. THE CONTRACTOR SHALL BECOME THE OWNER OF THE REMOVED MATERIALS AND THE REMOVED MATERIALS SHALL BE REMOVED FROM THE PROJECT SITE, UNLESS OTHERWISE ACCEPTABLE TO THE ENGINEER.
 6. THE EXISTING DAM MATERIAL INCLUDES CONCRETE REBAR, CONCRETE ACCESSORIES AND FILL MATERIAL AS SHOWN ON SHEETS 13,14 & 15.
 7. EXCAVATED MATERIAL BEHIND ABUTMENTS MAY BE REUSED TO BACKFILL ABUTMENT VOIDS AS LONG AS THE MATERIAL IS NOT DISCHARGED BACK INTO THE WATERWAY.

PROPOSED STONE DUMPED RIPRAP, CLASS A3 PLACED A MINIMUM OF 8" THICKNESS (TYP)



SW ABUTMENT

LEGEND
 DAM REMOVAL

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
CONCRETE REMOVAL	L	SUM 1
STONE DUMPED RIPRAP, CLASS A3	TON	130
FILTER FABRIC	SQ YD	280

4/28/2021
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DESIGNED - TMM
 DRAWN - JTC
 CHECKED - LEL
 DATE - 04-28-2021

STATE OF ILLINOIS
DEPARTMENT OF NATURAL RESOURCES
OFFICE OF WATER RESOURCES

TOUHY AVENUE DAM REMOVAL
DAM REMOVAL DETAILS

COUNTY TOTAL SHEETS SHEET NO.
 COOK 15 6
 PROJECT FR-439

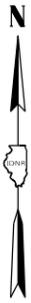
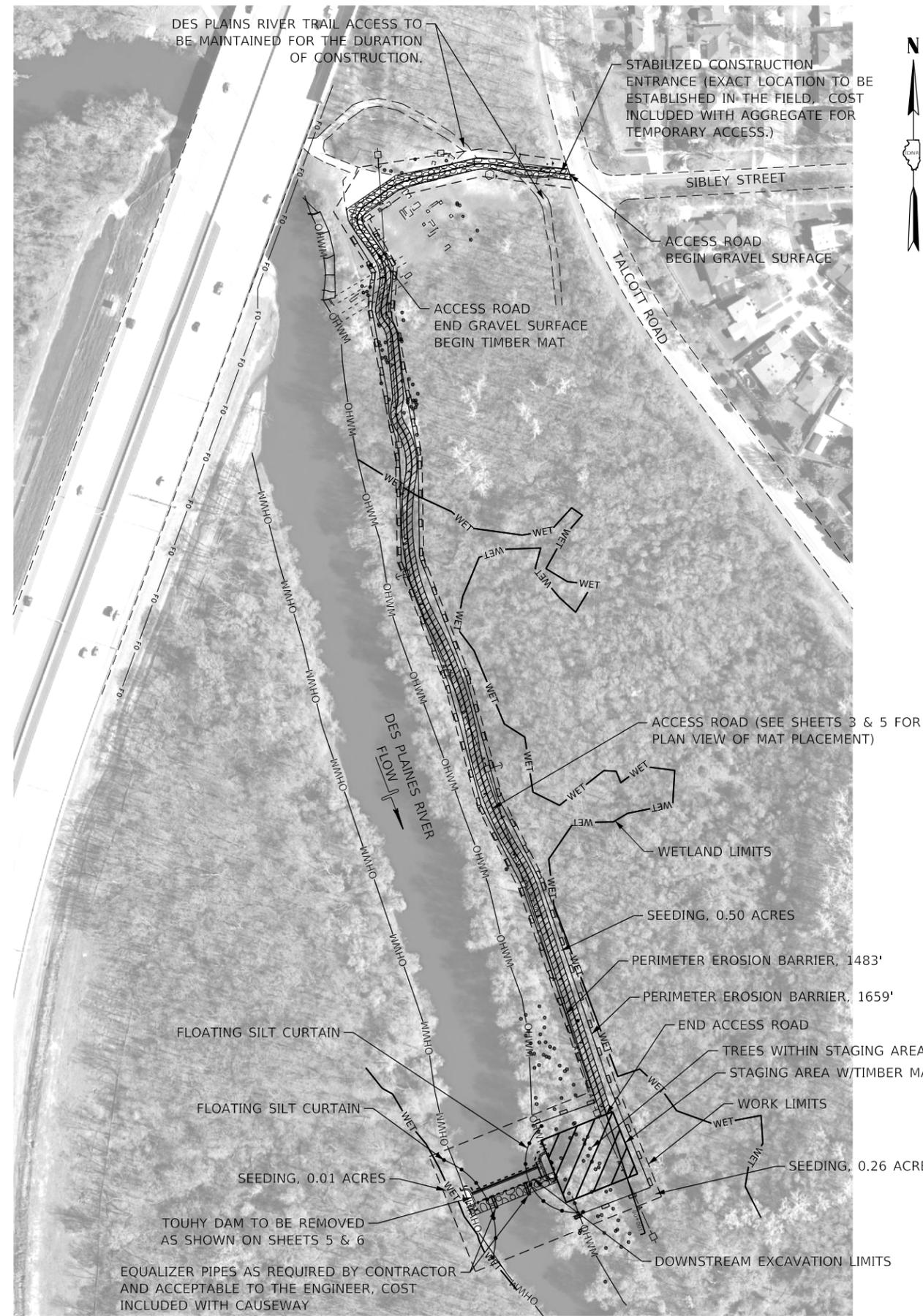
NOTES:

1. ALL EROSION CONTROL ITEMS SHALL BE FURNISHED AND MAINTAINED BY THE CONTRACTOR FOR THE ENTIRE DURATION OF THE PROJECT, AS DIRECTED BY THE ENGINEER.
2. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN THE MOST CURRENT ILLINOIS URBAN MANUAL, THESE PLAN SHEETS AND THE CURRENT IDOT STANDARD SPECIFICATIONS AND SUPPLEMENTAL SPECIFICATIONS.
3. THE NORTH COOK COUNTY SOIL AND WATER CONSERVATION DISTRICT (NCCSWCD) MUST BE NOTIFIED BY CONTRACTOR 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.
4. A COPY OF THE APPROVED SEDIMENT AND EROSION CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES WHEN THE CONTRACTOR IS ON SITE.
5. 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 ENGINEER FOR REVIEW.
6. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ALL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE ENGINEER AND NCCSWCD. EXACT SIZES AND LOCATIONS MAY BE ADJUSTED IN THE FIELD. ALL INSTALLATIONS SHALL BE MAINTAINED TO ENSURE THEY ARE FUNCTIONING PROPERLY.
7. ALL ADJACENT STREETS MUST BE KEPT CLEAR OF DEBRIS, INSPECTED DAILY AND CLEANED WHEN NECESSARY.
8. ALL EROSION CONTROL MEASURES MUST BE INSPECTED WEEKLY AND AFTER EACH 1/2" RAIN EVENT.
9. MULCH SHALL BE INSTALLED ON ALL SEEDED SLOPES AND IN CRITICAL AREAS IMMEDIATELY UPON FINAL GRADING AND SEEDED.
10. THE PRIORITY SHALL BE GIVEN TO THE COMPLETION AND STABILIZATION OF THE DISTURBED AREAS. WORK IN THESE AREAS SHALL NOT BE PROLONGED SO THAT ALL FINAL GRADING AND STABILIZATION CAN TAKE PLACE AT ONE TIME.
11. STOCKPILES OF SOIL AND OTHER MATERIALS TO REMAIN IN PLACE MORE THAN THREE (3) DAYS SHALL BE FURNISHED WITH EROSION AND SEDIMENT CONTROL MEASURES (I.E. PERIMETER EROSION BARRIER). STOCKPILES TO REMAIN IN PLACE FOR 21 DAYS OR MORE SHALL RECEIVE TEMPORARY SEEDING. COST INCLUDED IN CONTRACT. TEMPORARY SEEDING SHALL COMPLY WITH CODE 965 OF THE ILLINOIS URBAN MANUAL.
12. IN AREAS WHERE WORK IS COMPLETE, PERMANENT STABILIZATION SHALL OCCUR WITHIN 7 DAYS OF COMPLETION, AND IN AREAS WHERE WORK WILL TEMPORARILY CEASE FOR 21 DAYS OR MORE, TEMPORARY STABILIZATION SHALL OCCUR BY THE 14TH DAY AFTER WORK HAS CEASED.
13. COMPLETED SLOPES SHALL BE SEEDED AND MULCHED 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 SEEDED AT ONE TIME.
14. THE CONTRACTOR SHALL AMEND THE PLANS (CREATE AS-BUILTS) AS NEEDED TO SHOW CHANGES IN CONSTRUCTION. THESE SHALL BE KEPT UP TO DATE THROUGHOUT CONSTRUCTION AND PROVIDED TO THE ENGINEER FOR REVIEW UPON REQUEST.
15. ALL NON-PROJECT AREAS THAT ARE DISTURBED SHALL BE RETURNED TO THEIR PRE-CONSTRUCTION CONDITION TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE CONTRACT.
16. DEWATERING OF THE PROJECT AREA IS NOT PROPOSED FOR THIS PROJECT. OPTIONALLY, THE CONTRACTOR MAY SUBMIT DEWATERING PLANS TO THE ENGINEER AND PERMITTING AGENCIES FOR APPROVAL.
17. ALL CONSTRUCTION ENTRANCES, STAGING AREAS & ACCESS ROADWAYS WILL BE MAINTAINED SUCH THAT IT WILL PREVENT TRACKING OR FLOW OF SEDIMENT ON PUBLIC ROADS. THIS MAY REQUIRE PERIODIC TOP DRESS OF THE CONSTRUCTION ENTRANCES AS NEEDED AND AS DIRECTED BY THE ENGINEER.

INSPECTION AND MAINTENANCE SCHEDULE

ACTIVITY	RESPONSIBLE PARTY	DURATION
STABILIZATION DURING CONSTRUCTION MAINTENANCE	CONTRACTOR	WEEKLY AND AFTER EVERY 1/2" OF RAINFALL
INSPECTION OF STABILIZATION DURING CONSTRUCTION	ENGINEER	WEEKLY AND AFTER EVERY 1/2" OF RAINFALL
VEGETATION MAINTENANCE	CONTRACTOR	COMPLETION OF CONTRACT
VEGETATION AND STABILIZATION MAINTENANCE	FOREST PRESERVES OF COOK COUNTY	ONGOING AFTER CONSTRUCTION COMPLETION

4/28/2021	DESIGNED - TMM	REVISED	STATE OF ILLINOIS DEPARTMENT OF NATURAL RESOURCES OFFICE OF WATER RESOURCES	TOUHY AVENUE DAM REMOVAL	COUNTY	TOTAL SHEETS	SHEET NO.
10:00:19 AM	DRAWN - JTC	REVISED			COOK	15	7
0:\0w\Proj\Imp\Projects\Touhy Avenue Dam Removal\Plan_Sheets\7 Erosion_Control_General_Notes.dwg	CHECKED - LEL	REVISED			EROSION CONTROL GENERAL NOTES		
40.0000 ' / in.	DATE - 04-28-2021	REVISED			PROJECT FR-439		



LEGEND

- RIVER FLOW DIRECTION
- PERIMETER EROSION BARRIER (SEDIMAX SEDI FR OR APPROVED EQUAL)
- WORK LIMITS
- FLOATING SILT CURTAIN
- STAGING AREA-TIMBER MAT
- ACCESS ROAD-AGGREGATE
- ACCESS ROAD-TIMBER MAT
- CAUSEWAY
- ORDINARY HIGH WATER MARKS
- WETLAND LIMITS

- NOTES:**
1. ALL SEEDED AREAS SHALL RECEIVE MULCH, METHOD 1 IN ACCORDANCE WITH SECTION 251 OF THE STANDARD SPECIFICATIONS.
 2. IF HYDRAULIC EQUIPMENT IS PLACED INTO THE RIVER, THEN THE HYDRAULIC FLUID SHALL BE 100% VEGETABLE BASED.
 3. CONTRACTOR SHALL INSTALL, INSPECT, AND MAINTAIN ALL REQUIRED SEDIMENT AND EROSION CONTROL MEASURES INCLUDING, BUT NOT LIMITED TO, PERIMETER EROSION BARRIER, DUST CONTROL, AND CLEANING CONSTRUCTION EQUIPMENT TIRES BEFORE LEAVING THE SITE.
 4. SEEDING SHALL BE APPLIED IMMEDIATELY AFTER THE TIMBER MATTING IS REMOVED. THE SEED BED SHALL BE PREPARED IN ACCORDANCE WITH SECTION 250 OF THE STANDARD SPECIFICATIONS.

PROJECT WORK AREA LIMITS TABLE

WORK LIMIT AREA = 2.96 ACRES
IMPERVIOUS AREA = 0.05 ACRES
PERVIOUS AREA = 2.91 ACRES
WATERS OF THE U.S.: *
PERMANENT IMPACTS = 0.11 ACRES
TEMPORARY IMPACTS = 0.05 ACRES
DISTURBED AREA ** = 0.92 ACRES
UNDISTURBED AREA = 2.04 ACRES
WETLANDS TEMPORARY IMPACTS ***= 0.63 ACRES

* PERMANENT IMPACTS ARE AREAS OF GRADING OR PERMANENT DISCHARGE OF FILL BELOW O.H.W.M.. TEMPORARY IMPACTS ARE TEMPORARY FILLS THAT WILL BE RESTORED TO ORIGINAL CONTOURS UPON COMPLETION OF WORK.
 ** DISTURBED AREA INCLUDES ACCESS ROAD, STAGING AND DAM REMOVAL AREAS.
 *** WETLANDS TEMPORARY IMPACTS INCLUDES THE PLACEMENT OF TIMBER MATS FOR ACCESS THAT WILL BE REMOVED UPON COMPLETION OF WORK.

BILL OF MATERIALS

PERIMETER EROSION BARRIER	FOOT	3,142
FLOATING SILT CURTAIN, TYPE 3	L SUM	1
SEEDING, CLASS 1B	ACRE	0.77

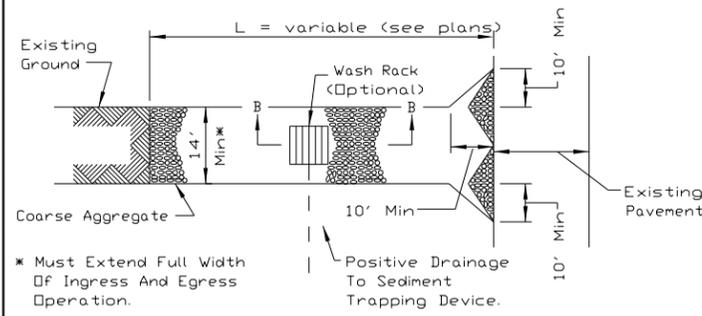
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**STATE OF ILLINOIS
DEPARTMENT OF NATURAL RESOURCES
OFFICE OF WATER RESOURCES**

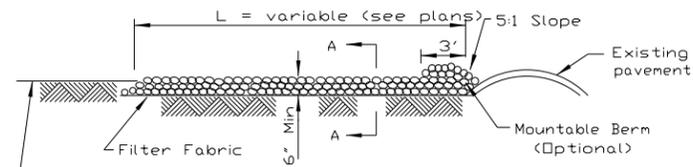
**TOUHY AVENUE DAM REMOVAL
SEDIMENT AND EROSION CONTROL PLAN**

COUNTY	TOTAL SHEETS	SHEET NO.
COOK	15	8
PROJECT FR-439		

STABILIZED CONSTRUCTION ENTRANCE PLAN



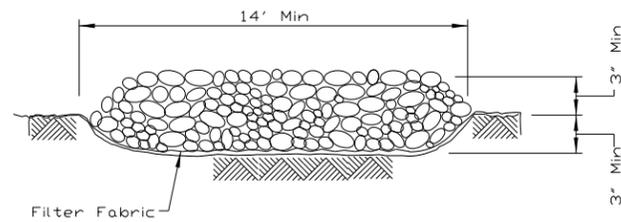
PLAN VIEW



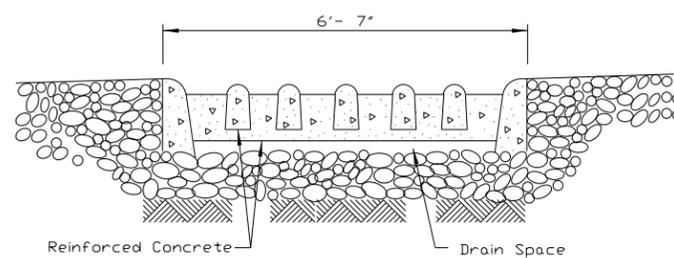
SIDE ELEVATION

- NOTES:
1. Filter fabric shall meet the requirements of material specification 592 GEOTEXTILE, Table I or 2, Class IV, and shall be placed over the cleared area prior to the placing of rock.
 2. 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.
 3. Any drainage facilities required because of washing shall be constructed according to manufacturers specifications.
 4. If wash racks are used they shall be installed according to the manufacturer's specifications.

STABILIZED CONSTRUCTION ENTRANCE PLAN

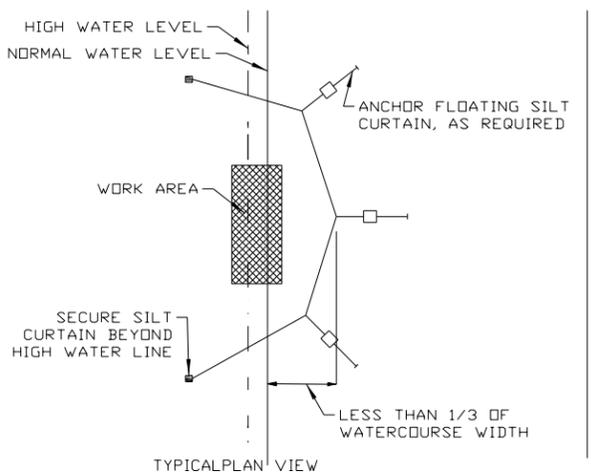
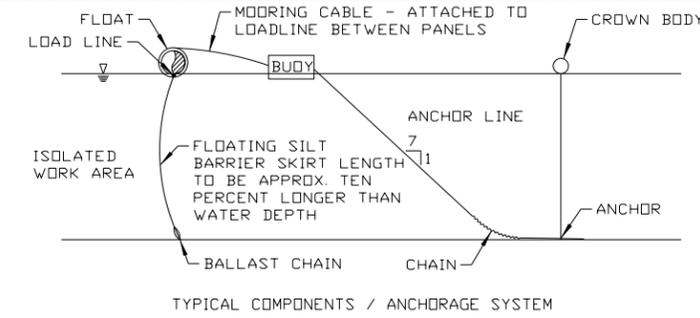


SECTION A-A



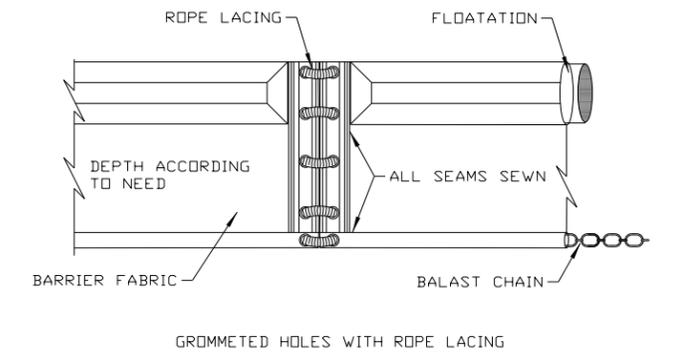
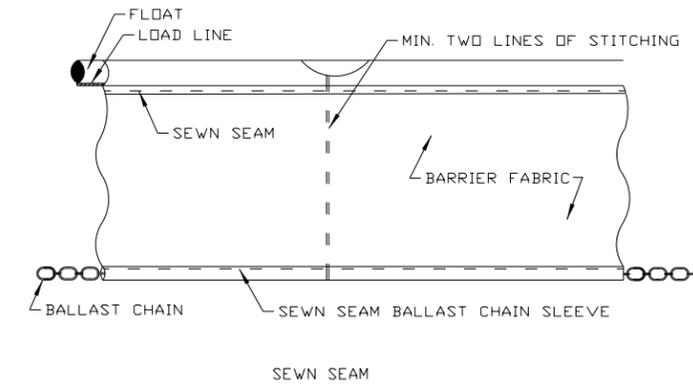
SECTION B-B

FLOATING SILT CURTAIN - TYPICAL LAYOUT



- MAXIMUM FLOW FOR WATERBODY SHALL BE LESS THAN 5FPS.
ISOLATED WORK AREA SHALL NOT EXCEED MORE THAN 1/3 STREAM WIDTH.
SILT CURTAIN SHALL BE PLACED PARALLEL TO STREAM FLOW.

FLOATING SILT CURTAIN - PANEL CONNECTORS



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

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

REFERENCE Project	DESIGNED _____ Date _____		STANDARD DWG. NO. IUM-617A
Checked _____ Date _____	SHEET 1 OF 1		
Approved _____ Date _____	DATE 1-06-2012		

REFERENCE Project	DESIGNED _____ Date _____		STANDARD DWG. NO. IUM-617B
Checked _____ Date _____	SHEET 1 OF 1		
Approved _____ Date _____	DATE 1-6-2012		

NOTES:

1. THE CURTAIN SHALL BE SUPPLIED, INSTALLED AND MAINTAINED IN ACCORDANCE WITH CODE 917 OF THE ILLINOIS URBAN MANUAL.
2. THE TYPE OF CURTAIN USED SHALL BE A TYPE III RATED FOR WATER VELOCITIES UP TO 5 FPS AND ONE FOOT WAVE ACTION. THE CURTAIN DEPTH SHALL BE 10% GREATER THAN THE 2 YEAR STORM EVENT, CONTRACTOR SHALL DETERMINE DEPTH OF CURTAIN.
3. FILTER FABRIC SHOWN ON THIS SHEET SHALL NOT BE MEASURED FOR PAYMENT. THE COST SHALL BE INCLUDED IN AGGREGATE FOR TEMPORARY ACCESS.

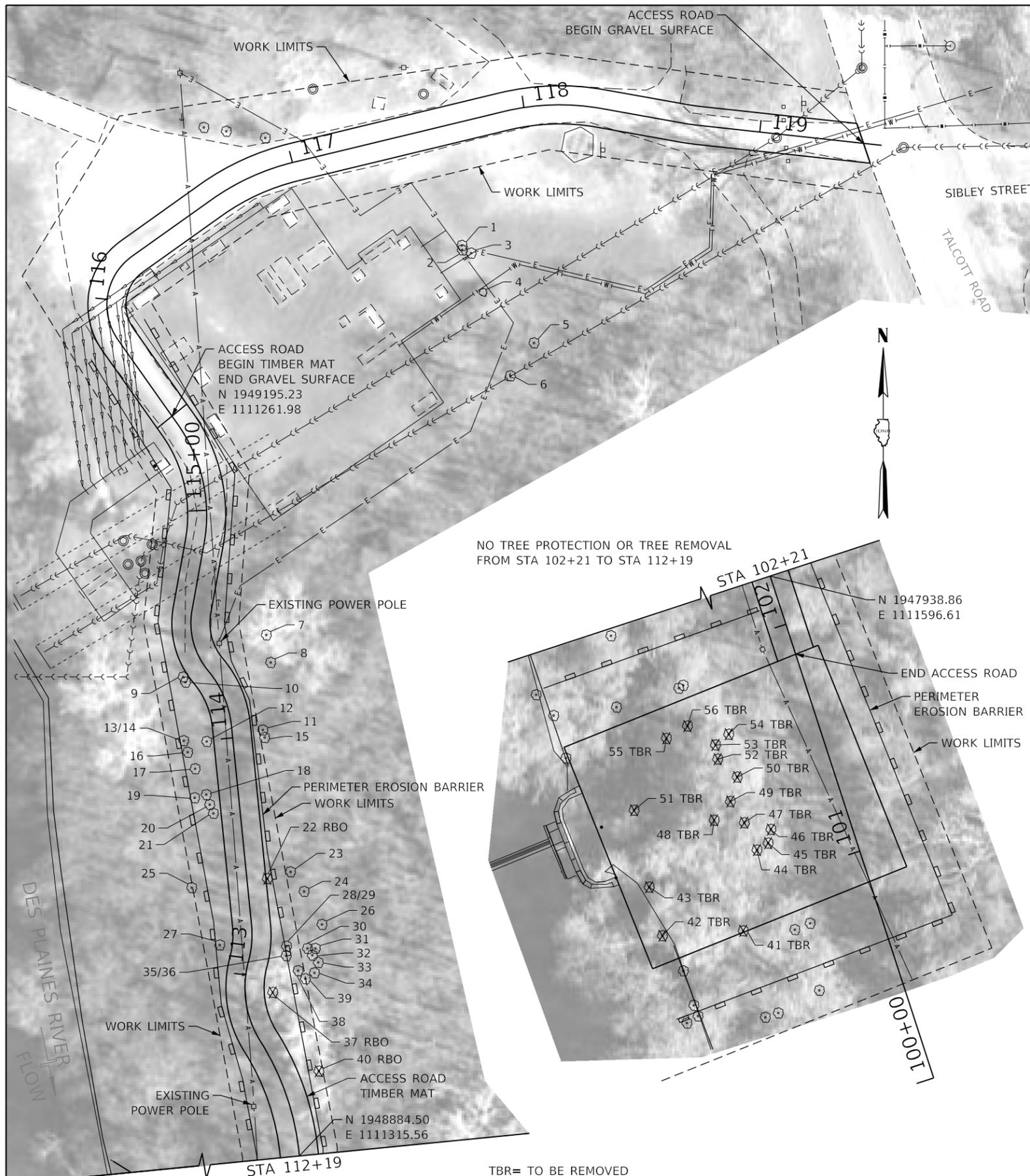
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2:0000 / in.	DATE - 04-28-2021	REVISED

DESIGNED - TMM	REVISED
DRAWN - JTC	REVISED
CHECKED - LEL	REVISED
DATE - 04-28-2021	REVISED

STATE OF ILLINOIS
DEPARTMENT OF NATURAL RESOURCES
OFFICE OF WATER RESOURCES

TOUHY AVENUE DAM REMOVAL
EROSION CONTROL DETAILS

COUNTY	TOTAL SHEETS	SHEET NO.
COOK	15	9
PROJECT FR-439		



TREE SCHEDULE								
TREE NUMBER	TYPE	DIAMETER (MEAS. 2015)	NORTHING	EASTING	TREE TRUNK PROTECTION	TREE REMOVAL (6 TO 15 UNITS DIA.)	TREE REMOVAL (OVER 15 UNITS DIA.)	
1	MULBERRY	8"	1949266.75	1111383.84	X			
2	ELM	7"	1949264.86	1111383.96	X			
3	ELM	5"	1949263.52	1111387.68	X			
4	WALNUT	13"	1949247.10	1111392.78	X			
5	WALNUT	18"	1949225.91	1111414.10	X			
6	ELM	5"	1949212.12	1111404.17	X			
7	WALNUT	4"	1949103.51	1111301.60	X			
8	WALNUT	10"	1949091.96	1111303.45	X			
9	BUR OAK	7"	1949085.88	1111266.69	X			
10	BUR OAK	8"	1949083.70	1111267.64	X			
11	WALNUT	15"	1949063.68	1111300.17	X			
12	WALNUT	4"	1949058.84	1111276.58	X			
13	BUR OAK	3"	1949059.19	1111266.92	X			
14	BUR OAK	3"	1949059.19	1111266.92	X			
15	WALNUT	4"	1949060.52	1111300.93	X			
16	BUR OAK	5"	1949054.34	1111268.58	X			
17	BUR OAK	4"	1949047.41	1111271.71	X			
18	BUR OAK	2"	1949036.58	1111276.38	X			
19	RED OAK	10"	1949035.26	1111271.50	X			
20	BUR OAK	2"	1949032.38	1111277.86	X			
21	BUR OAK	3"	1949028.75	1111279.37	X			
22	HACKBERRY	4"	1949001.36	1111302.05				
23	WALNUT	12"	1949004.22	1111311.81	X			
24	WALNUT	10"	1948996.00	1111317.49	X			
25	RED OAK	10"	1948997.59	1111270.28	X			
26	WALNUT	14"	1948982.17	1111325.00	X			
27	RED OAK	12"	1948973.57	1111282.06	X			
28	BUR OAK	2"	1948973.05	1111310.09	X			
29	BUR OAK	1"	1948973.05	1111310.09	X			
30	BUR OAK	2"	1948972.10	1111318.90	X			
31	BUR OAK	3"	1948972.13	1111322.23	X			
32	BUR OAK	6"	1948969.24	1111320.95	X			
33	BUR OAK	3"	1948966.26	1111323.42	X			
34	WALNUT	13"	1948961.89	1111321.86	X			
35	BUR OAK	2"	1948969.07	1111309.98	X			
36	BUR OAK	1"	1948969.07	1111309.98	X			
37	WALNUT	7"	1948953.72	1111304.40				
38	BUR OAK	2"	1948962.80	1111314.98	X			
39	BUR OAK	3"	1948959.43	1111318.04	X			
40	RED OAK	20"	1948920.71	1111323.73				
41	NA	20"	1947790.42	1111585.21				X
42	NA	20"	1947788.35	1111551.25				X
43	NA	11"	1947808.72	1111545.70		X		
44	NA	8"	1947824.28	1111591.00		X		
45	NA	6"	1947827.17	1111595.69		X		
46	NA	10"	1947832.91	1111596.86		X		
47	NA	11"	1947835.72	1111585.66		X		
48	NA	11"	1947836.77	1111573.00		X		
49	NA	11"	1947844.62	1111579.81		X		
50	NA	13"	1947854.87	1111582.68		X		
51	NA	8"	1947840.94	1111539.36		X		
52	NA	10"	1947862.37	1111574.48		X		
53	NA	6"	1947868.33	1111573.56		X		
54	NA	6"	1947872.80	1111579.12		X		
55	NA	12"	1947871.06	1111552.94		X		
56	NA	24"	1947876.27	1111561.78				X
TOTAL					37	123	64	

* TREE HAS BEEN REMOVED BY OTHERS.

TBR= TO BE REMOVED
RBO= REMOVED BY OTHERS

4/28/2021
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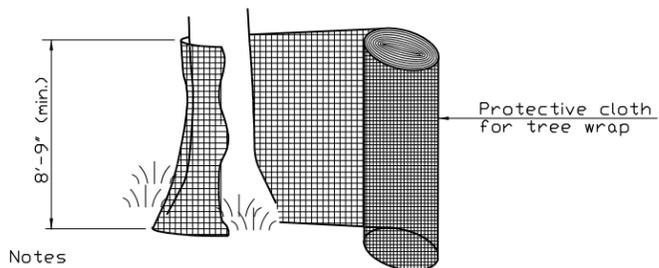
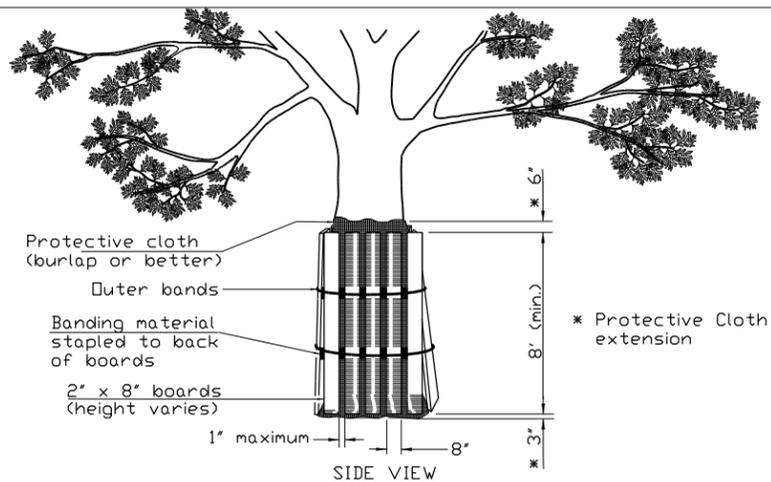
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DRAWN - JTC
CHECKED - LEL
DATE - 04-28-2021

STATE OF ILLINOIS
DEPARTMENT OF NATURAL RESOURCES
OFFICE OF WATER RESOURCES

TOUHY AVENUE DAM REMOVAL
TREE PROTECTION AND REMOVAL PLAN

COUNTY COOK
TOTAL SHEETS 15
SHEET NO. 10
PROJECT FR-439

TREE TRUNK PROTECTION



Notes

1. The contractor shall provide 2" x 8" boards banded continuously around each trunk with a protective cloth (such as burlap or better) placed between the boards and the tree to prevent scarring of the tree being protected. The height of the boards is variable due to height of tree being protected. Trees to be protected shall be shown in the plans or designated by the Professional Forester or Certified Arborist.
2. The protective cloth shall extend past both the top and bottom of the boards as shown in the detail. Width of wrap material varies. For fabric that does not meet the required height, fabric shall overlap a minimum of 6" and shall be spliced to avoid slippage.

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



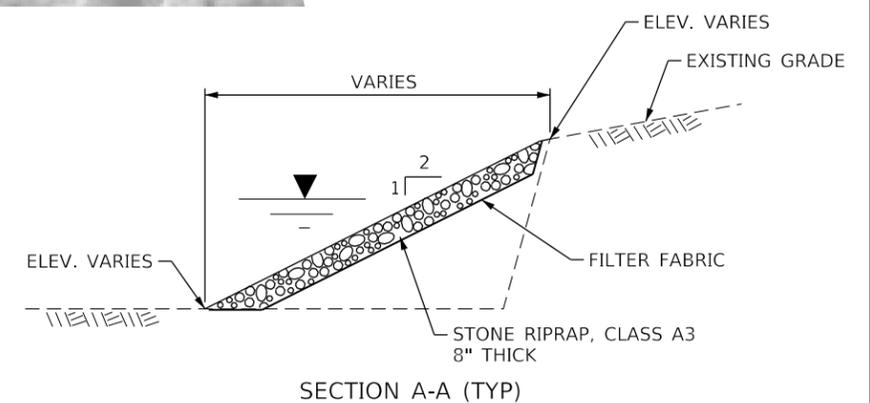
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IUM-690-C
SHEET 1 OF 1
DATE 09-14-2017

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2.0000' / in.	DATE - 04-28-2021	REVISED

STATE OF ILLINOIS
DEPARTMENT OF NATURAL RESOURCES
OFFICE OF WATER RESOURCES

TOUHY AVENUE DAM REMOVAL
TREE PROTECTION DETAIL

COUNTY	TOTAL SHEETS	SHEET NO.
COOK	15	11
PROJECT FR-439		



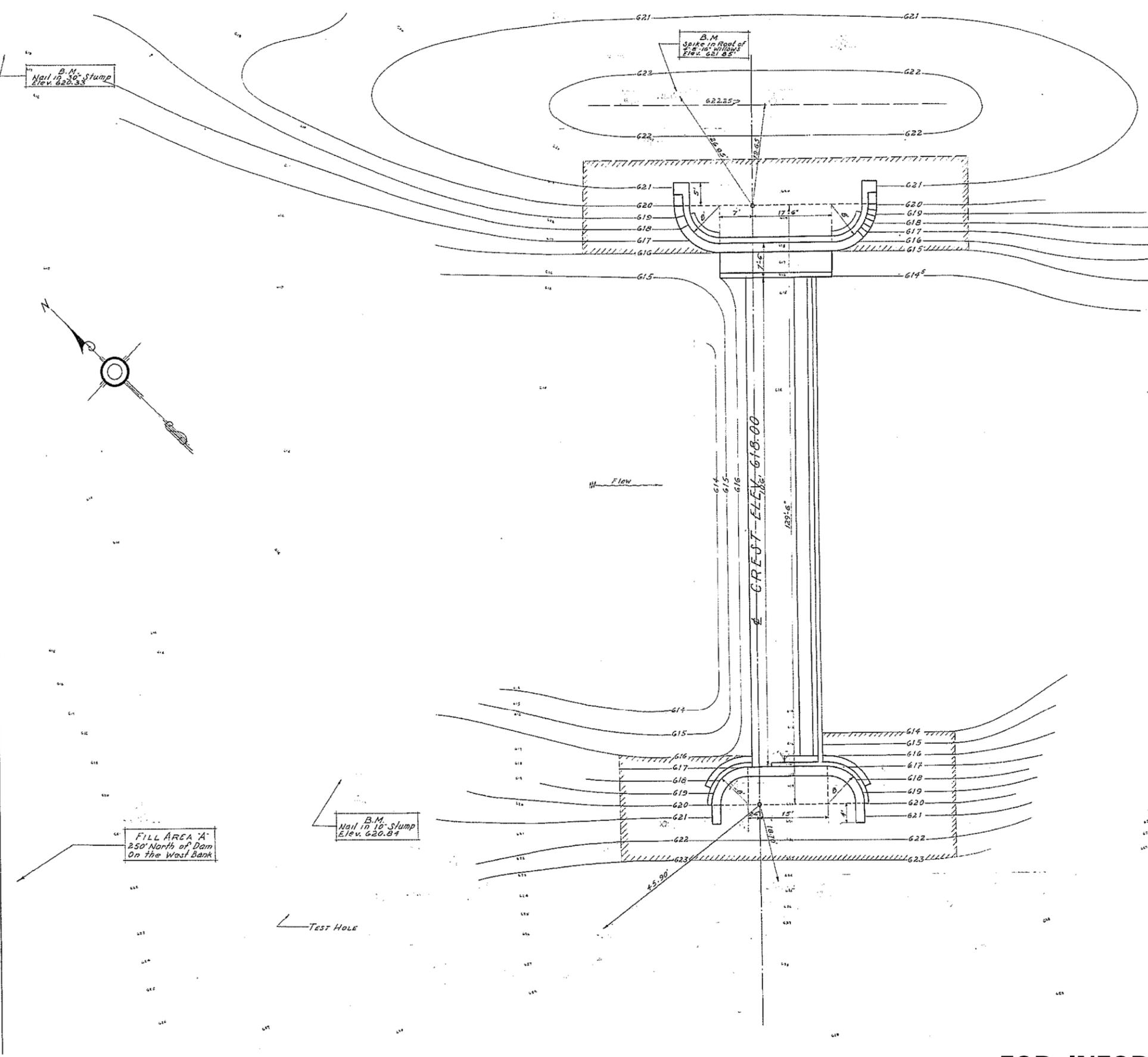
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50.0000 ' / in.	DATE - 04-28-2021	REVISED

DESIGNED - TMM	REVISED
DRAWN - JTC	REVISED
CHECKED - LEL	REVISED
DATE - 04-28-2021	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF NATURAL RESOURCES
OFFICE OF WATER RESOURCES**

**TOUHY AVENUE DAM REMOVAL
POST CONSTRUCTION SITE PLAN**

COUNTY	TOTAL SHEETS	SHEET NO.
COOK	15	12
PROJECT FR-439		

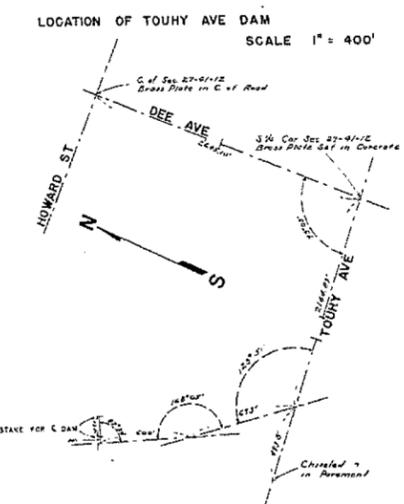


NOTE:
 All waste earth may be disposed of at the location designed as Fill Area A. Any fill made in this area shall not exceed two (2) feet in depth and shall be shaped to a smooth surface to the satisfaction of the Forest Preserve District.

TABLATION OF QUANTITIES
 (APPROXIMATE)

ITEM NO.	DESCRIPTION	UNIT	TOUHY AVE
1	COFFERDAM	LUMP SUM	
2	EXCAVATION	CU. YD.	800
3	PORTLAND CEMENT	BU.	57.0
4	REINFORCING STEEL	LB.	54.00
5	REINFORCED CONCRETE	CU. YD.	37.0
6	BOAT ROLLERS	LUMP SUM	
7	SODDING	SQ. YD.	3.50
8	STEEL SHEET PILING	SQ. FT.	

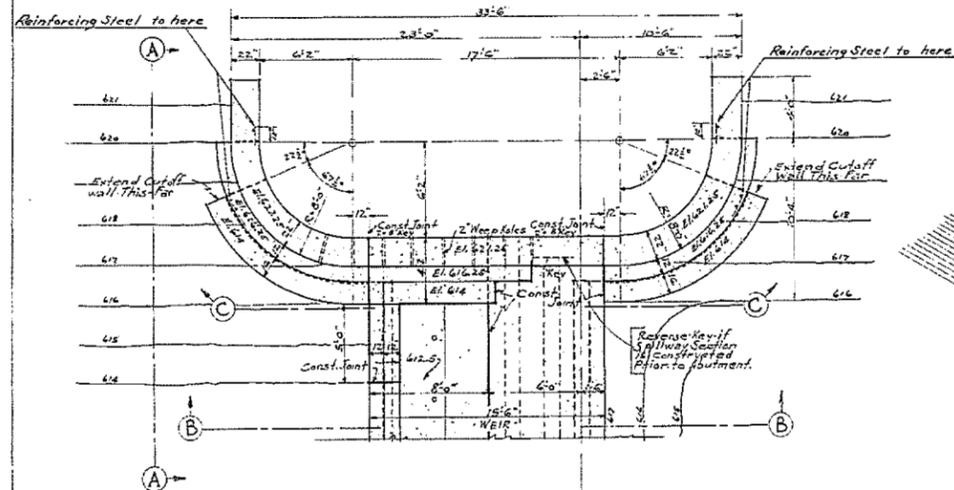
- LEGEND
- CONTOURS OF EXISTING GROUND SURFACE
 - CONTOURS OF PROPOSED GROUND SURFACE
 - INDICATES TREES TO BE REMOVED
 - INDICATES LIMITS OF SODDING



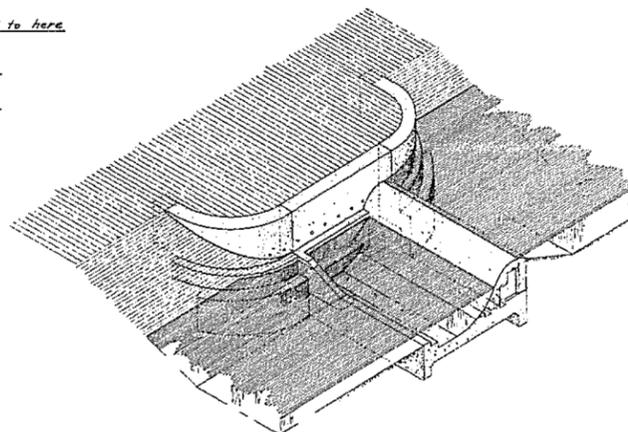
STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
 DIVISION OF WATERWAYS
 TOUHY AVE DAM
 DES PLAINES RIVER-COOK COUNTY, ILL.
 LOCATION & GRADING PLAN
 DATE: 8-1-66
 DESIGNED BY: [Name]
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 REVISIONS: [List]
 SCALE: 1/8" = 1' 0"
 FILE NO.: 727-D
 CLASSIFICATION: 5-C3
 SHEET NO.: 6
 APPROVED: [Signature] CHIEF ENGINEER

FOR INFORMATION ONLY

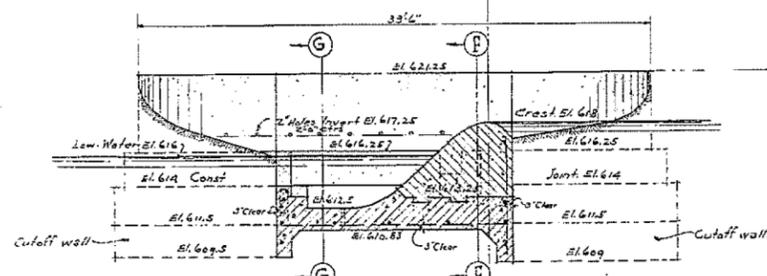
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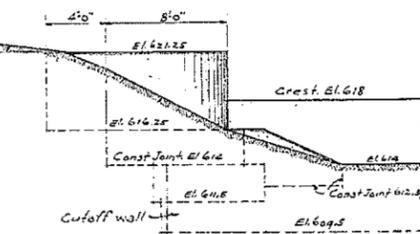
•• PLAN of ABUTMENT of WEIR ••
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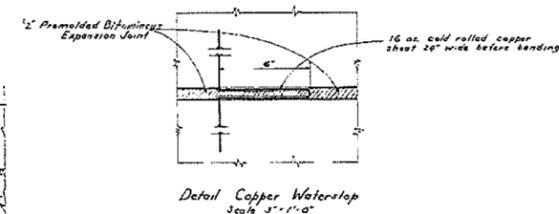
•• ISOMETRIC VIEW ••



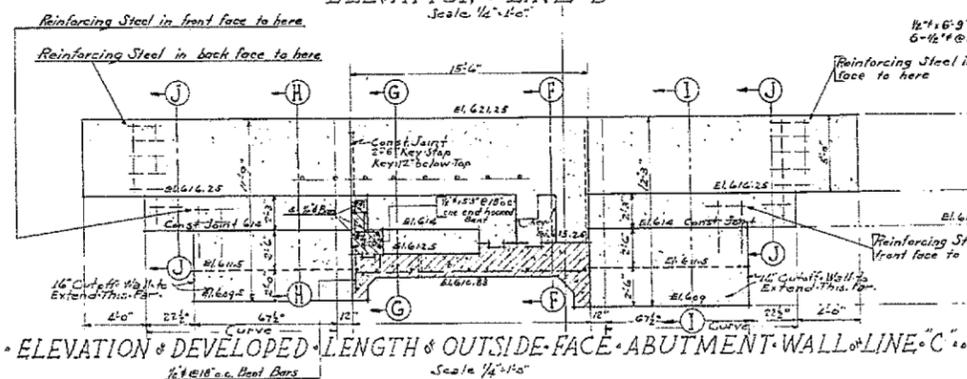
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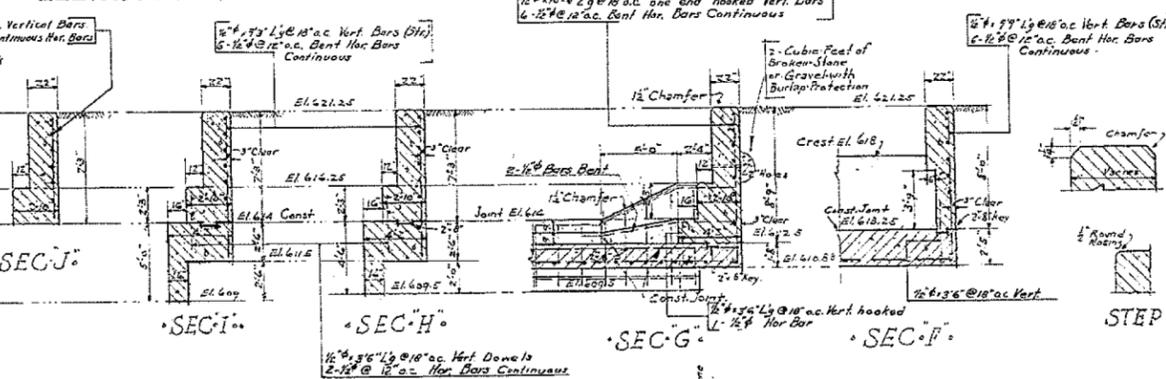
•• ELEVATION of LINE A ••
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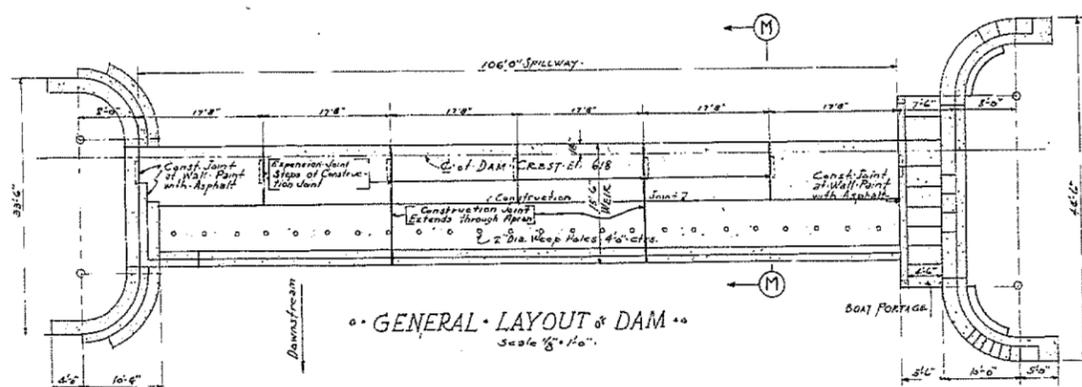
Detail Copper Waterstop
Scale 3"=1'-0"



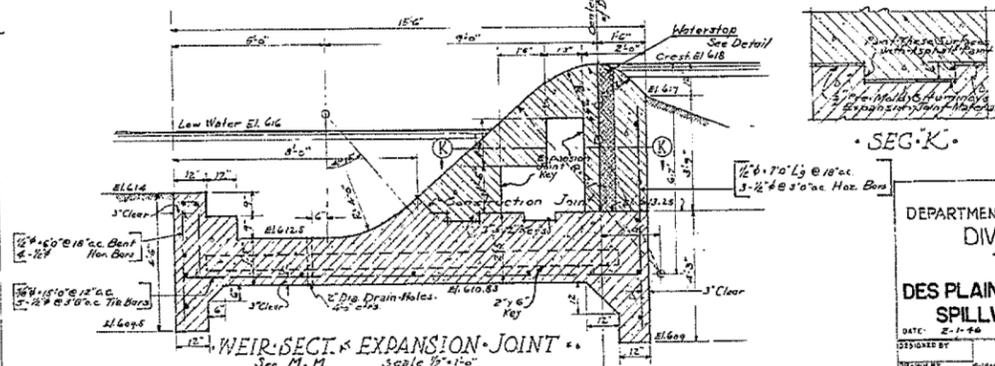
•• ELEVATION of DEVELOPED LENGTH & OUTSIDE-FACE ABUTMENT WALL of LINE C ••
Scale 1/4"=1'-0"



•• WALL of STEP ••
DETAILS ••



•• GENERAL LAYOUT of DAM ••
Scale 1/8"=1'-0"



WEIR SECTION EXPANSION JOINT
Scale 1/2"=1'-0"

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF WATERWAYS
TOUHY AVE DAM
DES PLAINES RIVER-COOK COUNTY, ILL
SPILLWAY & ABUTMENT DETAILS

DATE: 2-1-96 SCALE AS SHOWN

DESIGNED BY	TMM	FILE NO.	727-D
DRAWN BY	JTC	DATE	5-63
CHECKED BY	LEL	REVISIONS	7
REVIEWED BY	R.R. 3-7-96	APPROVED	DATE

FOR INFORMATION ONLY

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