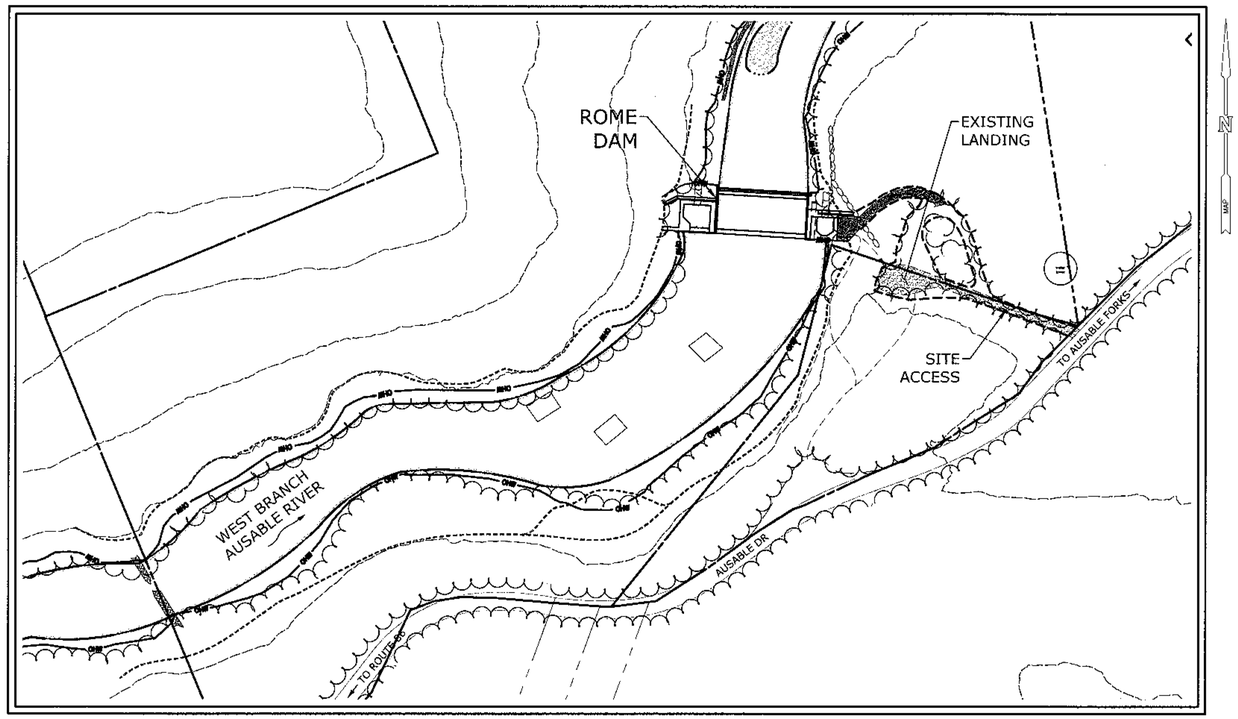
ROME DAM (NY ID #219-1082) REMOVAL

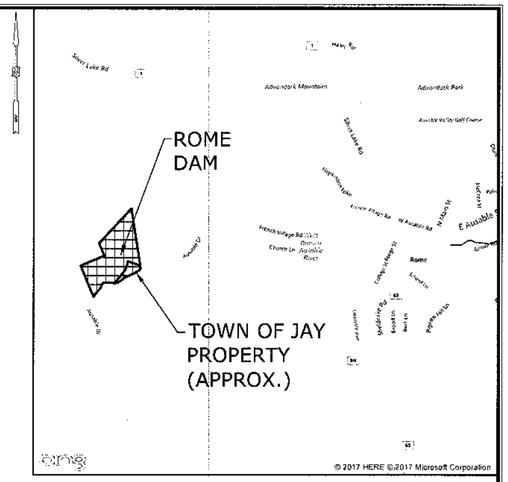
AUSABLE DRIVE
JAY, NEW YORK

FINAL DESIGN (90%)
MARCH 7, 2018



PROJECT SITE VICINITY MAP:

SCALE 1" = 80'



LOCATION MAP:

SCALE 1" = 1500'

PREPARED FOR:

ESSEX COUNTY, NEW YORK
GOVERNMENT CENTER
7551 COURT STREET
ELIZABETHTOWN, NEW YORK 12932

OWNER:

TOWN OF JAY, NEW YORK

IN PARTNERSHIP WITH:

NYS GOVERNOR'S OFFICE OF STORM RECOVERY

AUSABLE RIVER ASSOCIATION

US FISH & WILDLIFE SERVICE

LIST OF DRAWINGS

NO.	NAME	TITLE
01	--	TITLE SHEET
02	SP-1	SITE PLAN - EXISTING CONDITIONS
03	SP-2	SITE PLAN - PROPOSED CONDITIONS AND SITE RESTORATION
04	SP-3	SITE PLAN - CONSTRUCTION SEQUENCE
05	SP-4	SITE PLAN - TRAFFIC & PEDESTRIAN CONTROL
06	SP-5	SITE PLAN - CONSTRUCTION ACCESS, CLEARING & SEDIMENT CONTROL
07	SP-6	SITE PLAN - WATER CONTROL
08	CS-1	CROSS SECTIONS
09	PRO-1	PROFILE / LAYOUT PLAN
10	REM-1	REMOVALS
11	DET-1	DETAILS
12	DET-2	DETAILS - HISTORICAL

PREPARED BY:

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www.miloneandmacbroom.com

SEAL AND SIGNATURE

JAMES G. MACBROOM — P.E. NY# 086712-1

ROY K. SCHIFF — P.E. VT# 53825

811
Know what's below.
Call before you dig.
www.cbyd.com

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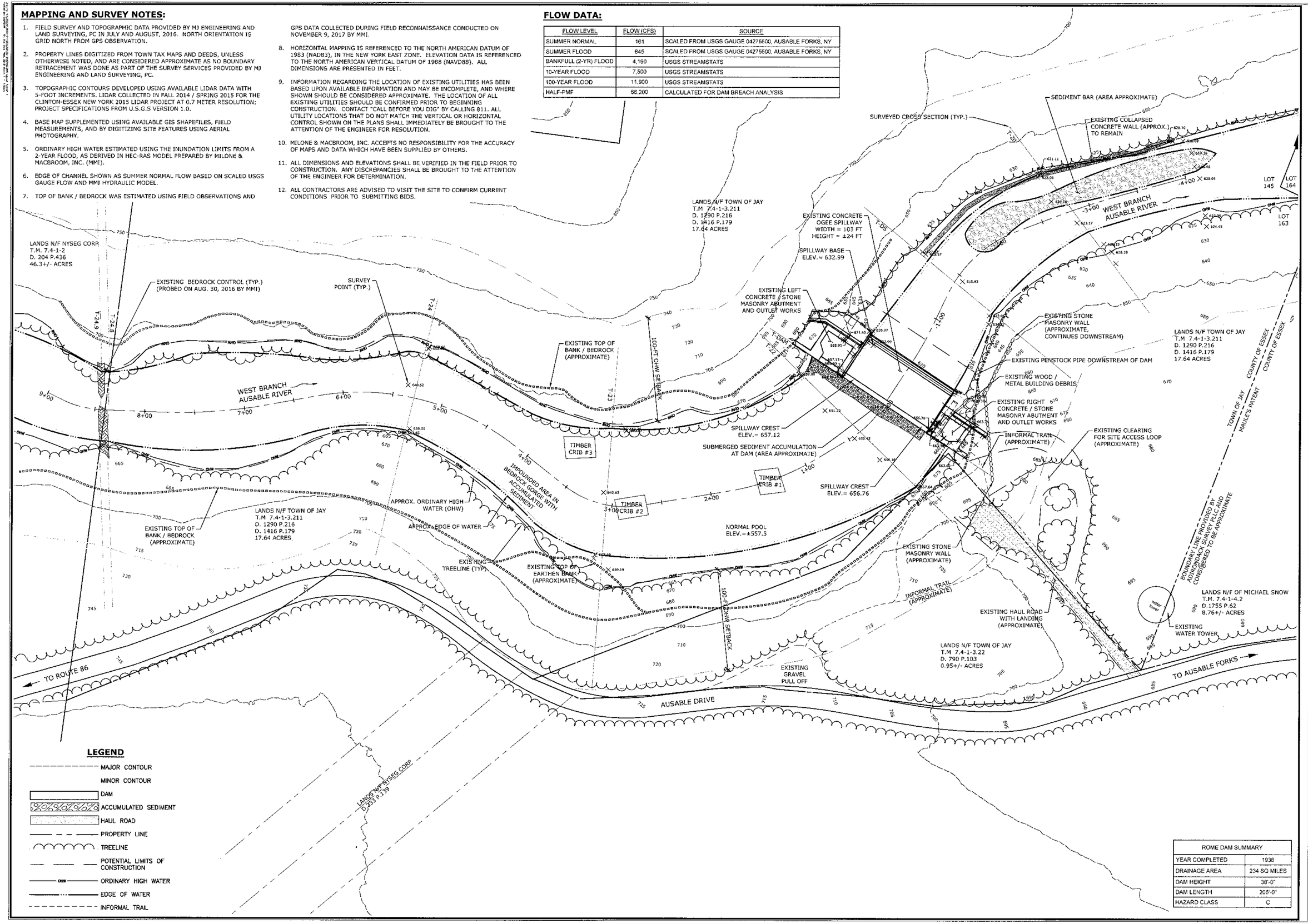
MAPPING AND SURVEY NOTES:

1. FIELD SURVEY AND TOPOGRAPHIC DATA PROVIDED BY MJ ENGINEERING AND LAND SURVEYING, PC IN JULY AND AUGUST, 2016. NORTH ORIENTATION IS GRID NORTH FROM GPS OBSERVATION.
2. PROPERTY LINES DIGITIZED FROM TOWN TAX MAPS AND DEEDS, UNLESS OTHERWISE NOTED, AND ARE CONSIDERED APPROXIMATE AS NO BOUNDARY RETRACEMENT WAS DONE AS PART OF THE SURVEY SERVICES PROVIDED BY MJ ENGINEERING AND LAND SURVEYING, PC.
3. TOPOGRAPHIC CONTOURS DEVELOPED USING AVAILABLE LIDAR DATA WITH 5-FOOT INCREMENTS. LIDAR COLLECTED IN FALL 2014 / SPRING 2015 FOR THE CLINTON-ESSEX NEW YORK 2015 LIDAR PROJECT AT 0.7 METER RESOLUTION; PROJECT SPECIFICATIONS FROM U.S.G.S VERSION 1.0.
4. BASE MAP SUPPLEMENTED USING AVAILABLE GIS SHAPEFILES, FIELD MEASUREMENTS, AND BY DIGITIZING SITE FEATURES USING AERIAL PHOTOGRAPHY.
5. ORDINARY HIGH WATER ESTIMATED USING THE INUNDATION LIMITS FROM A 2-YEAR FLOOD, AS DERIVED IN HEC-RAS MODEL PREPARED BY MILONE & MACBROOM, INC. (MMI).
6. EDGE OF CHANNEL SHOWN AS SUMMER NORMAL FLOW BASED ON SCALED USGS GAUGE FLOW AND MMI HYDRAULIC MODEL.
7. TOP OF BANK / BEDROCK WAS ESTIMATED USING FIELD OBSERVATIONS AND GPS DATA COLLECTED DURING FIELD RECONNAISSANCE CONDUCTED ON NOVEMBER 9, 2017 BY MMI.
8. HORIZONTAL MAPPING IS REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD83), IN THE NEW YORK EAST ZONE. ELEVATION DATA IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). ALL DIMENSIONS ARE PRESENTED IN FEET.
9. INFORMATION REGARDING THE LOCATION OF EXISTING UTILITIES HAS BEEN BASED UPON AVAILABLE INFORMATION AND MAY BE INCOMPLETE, AND WHERE SHOWN SHOULD BE CONSIDERED APPROXIMATE. THE LOCATION OF ALL EXISTING UTILITIES SHOULD BE CONFIRMED PRIOR TO BEGINNING CONSTRUCTION. CONTACT "CALL BEFORE YOU DIG" BY CALLING 811. ALL UTILITY LOCATIONS THAT DO NOT MATCH THE VERTICAL OR HORIZONTAL CONTROL SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
10. MILONE & MACBROOM, INC. ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF MAPS AND DATA WHICH HAVE BEEN SUPPLIED BY OTHERS.
11. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR DETERMINATION.
12. ALL CONTRACTORS ARE ADVISED TO VISIT THE SITE TO CONFIRM CURRENT CONDITIONS PRIOR TO SUBMITTING BIDS.

FLOW DATA:

FLOW LEVEL	FLOW (CFS)	SOURCE
SUMMER NORMAL	161	SCALED FROM USGS GAUGE 04275500, AUSABLE FORKS, NY
SUMMER FLOOD	645	SCALED FROM USGS GAUGE 04275500, AUSABLE FORKS, NY
BANKFULL (2-YR) FLOOD	4,190	USGS STREAMSTATS
10-YEAR FLOOD	7,500	USGS STREAMSTATS
100-YEAR FLOOD	11,900	USGS STREAMSTATS
HALF-PMF	68,200	CALCULATED FOR DAM BREACH ANALYSIS



LEGEND

- MAJOR CONTOUR
- MINOR CONTOUR
- DAM
- ACCUMULATED SEDIMENT
- HAUL ROAD
- PROPERTY LINE
- TREELINE
- POTENTIAL LIMITS OF CONSTRUCTION
- ORDINARY HIGH WATER
- EDGE OF WATER
- INFORMAL TRAIL

ROME DAM SUMMARY	
YEAR COMPLETED	1936
DRAINAGE AREA	234 SQ MILES
DAM HEIGHT	38'-0"
DAM LENGTH	205'-0"
HAZARD CLASS	C

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DESCRIPTION	DATE	BY

FINAL DESIGN (90%)

SITE PLAN - EXISTING CONDITIONS

ROME DAM (NY ID #219-1082) REMOVAL

AUSABLE DRIVE
JAY, NEW YORK

BMC	LAW	RKS
DESIGNED	DRAWN	CHECKED

SCALE: 1" = 40'

DATE: MARCH 7, 2018

PROJECT NO.: 5810-01

SHEET NO.: 02 OF 12

SHEET NAME: SP-1

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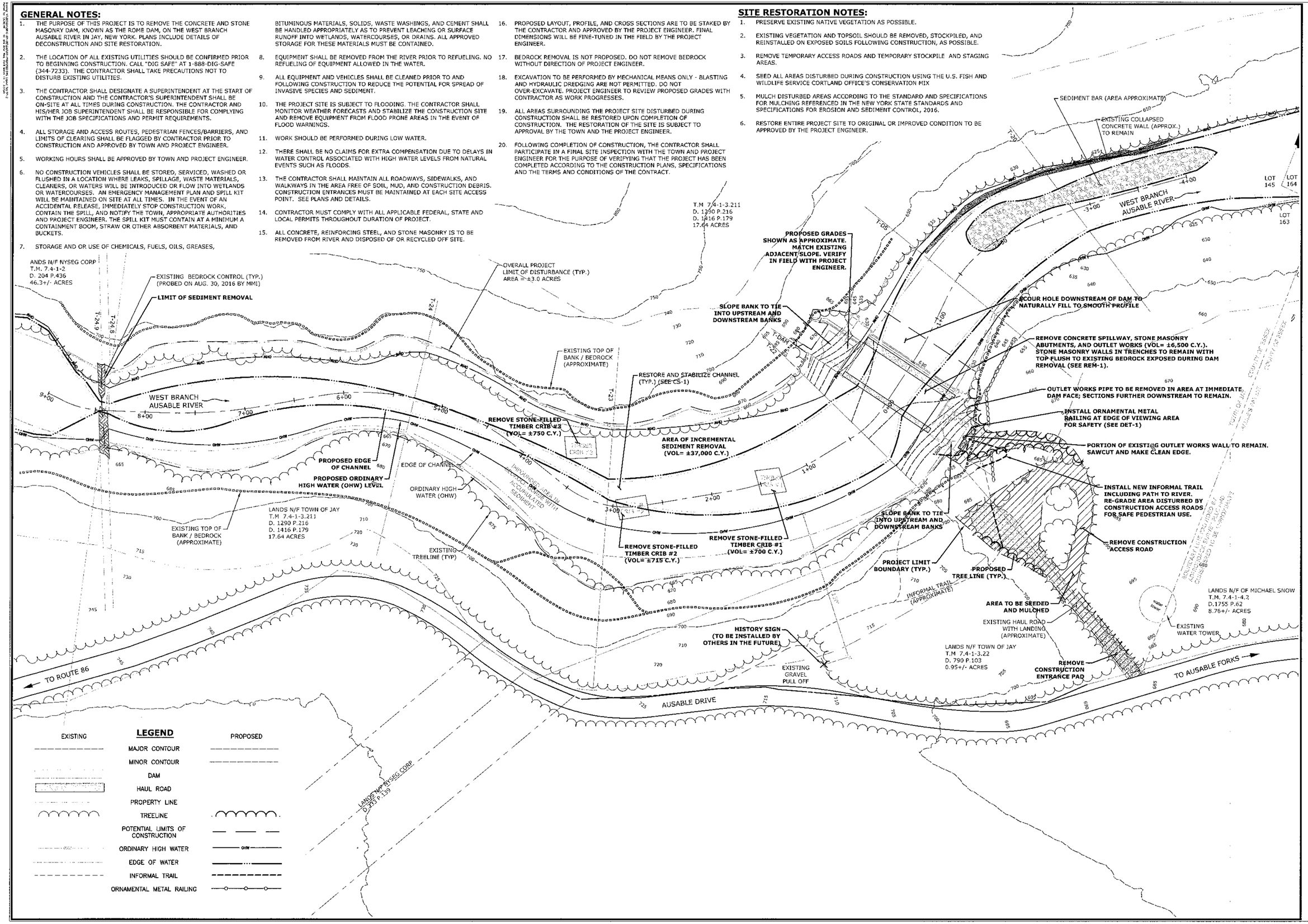
GENERAL NOTES:

1. THE PURPOSE OF THIS PROJECT IS TO REMOVE THE CONCRETE AND STONE MASONRY DAM, KNOWN AS THE ROME DAM, ON THE WEST BRANCH AUSABLE RIVER IN JAY, NEW YORK. PLANS INCLUDE DETAILS OF DECONSTRUCTION AND SITE RESTORATION.
2. THE LOCATION OF ALL EXISTING UTILITIES SHOULD BE CONFIRMED PRIOR TO BEGINNING CONSTRUCTION. CALL "DIG SAFE" AT 1-888-DIG-SAFE (344-7233). THE CONTRACTOR SHALL TAKE PRECAUTIONS NOT TO DISTURB EXISTING UTILITIES.
3. THE CONTRACTOR SHALL DESIGNATE A SUPERINTENDENT AT THE START OF CONSTRUCTION AND THE CONTRACTOR'S SUPERINTENDENT SHALL BE ON-SITE AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR AND HIS/HER JOB SUPERINTENDENT SHALL BE RESPONSIBLE FOR COMPLYING WITH THE JOB SPECIFICATIONS AND PERMIT REQUIREMENTS.
4. ALL STORAGE AND ACCESS ROUTES, PEDESTRIAN FENCES/BARRIERS, AND LIMITS OF CLEARING SHALL BE FLAGGED BY CONTRACTOR PRIOR TO CONSTRUCTION AND APPROVED BY TOWN AND PROJECT ENGINEER.
5. WORKING HOURS SHALL BE APPROVED BY TOWN AND PROJECT ENGINEER.
6. NO CONSTRUCTION VEHICLES SHALL BE STORED, SERVICED, WASHED OR FLUSHED IN A LOCATION WHERE LEAKS, SPILLAGE, WASTE MATERIALS, CLEANERS, OR WATERS WILL BE INTRODUCED OR FLOW INTO WETLANDS OR WATERCOURSES. AN EMERGENCY MANAGEMENT PLAN AND SPILL KIT WILL BE MAINTAINED ON SITE AT ALL TIMES. IN THE EVENT OF AN ACCIDENTAL RELEASE, IMMEDIATELY STOP CONSTRUCTION WORK, CONTAIN THE SPILL, AND NOTIFY THE TOWN, APPROPRIATE AUTHORITIES AND PROJECT ENGINEER. THE SPILL KIT MUST CONTAIN AT A MINIMUM A CONTAINMENT BOOM, STRAW OR OTHER ABSORBENT MATERIALS, AND BUCKETS.
7. STORAGE AND OR USE OF CHEMICALS, FUELS, OILS, GREASES, BITUMINOUS MATERIALS, SOLIDS, WASTE WASHINGS, AND CEMENT SHALL BE HANDLED APPROPRIATELY AS TO PREVENT LEACHING OR SURFACE RUNOFF INTO WETLANDS, WATERCOURSES, OR DRAINS. ALL APPROVED STORAGE FOR THESE MATERIALS MUST BE CONTAINED.
8. EQUIPMENT SHALL BE REMOVED FROM THE RIVER PRIOR TO REFUELING. NO REFUELING OF EQUIPMENT ALLOWED IN THE WATER.
9. ALL EQUIPMENT AND VEHICLES SHALL BE CLEANED PRIOR TO AND FOLLOWING CONSTRUCTION TO REDUCE THE POTENTIAL FOR SPREAD OF INVASIVE SPECIES AND SEDIMENT.
10. THE PROJECT SITE IS SUBJECT TO FLOODING. THE CONTRACTOR SHALL MONITOR WEATHER FORECASTS AND STABILIZE THE CONSTRUCTION SITE AND REMOVE EQUIPMENT FROM FLOOD PRONE AREAS IN THE EVENT OF FLOOD WARNINGS.
11. WORK SHOULD BE PERFORMED DURING LOW WATER.
12. THERE SHALL BE NO CLAIMS FOR EXTRA COMPENSATION DUE TO DELAYS IN WATER CONTROL ASSOCIATED WITH HIGH WATER LEVELS FROM NATURAL EVENTS SUCH AS FLOODS.
13. THE CONTRACTOR SHALL MAINTAIN ALL ROADWAYS, SIDEWALKS, AND WALKWAYS IN THE AREA FREE OF SOIL, MUD, AND CONSTRUCTION DEBRIS. CONSTRUCTION ENTRANCES MUST BE MAINTAINED AT EACH SITE ACCESS POINT. SEE PLANS AND DETAILS.
14. CONTRACTOR MUST COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL PERMITS THROUGHOUT DURATION OF PROJECT.
15. ALL CONCRETE, REINFORCING STEEL, AND STONE MASONRY IS TO BE REMOVED FROM RIVER AND DISPOSED OF OR RECYCLED OFF SITE.
16. PROPOSED LAYOUT, PROFILE, AND CROSS SECTIONS ARE TO BE STAKED BY THE CONTRACTOR AND APPROVED BY THE PROJECT ENGINEER. FINAL DIMENSIONS WILL BE FINE-TUNED IN THE FIELD BY THE PROJECT ENGINEER.
17. BEDROCK REMOVAL IS NOT PROPOSED. DO NOT REMOVE BEDROCK WITHOUT DIRECTION OF PROJECT ENGINEER.
18. EXCAVATION TO BE PERFORMED BY MECHANICAL MEANS ONLY - BLASTING AND HYDRAULIC DREDGING ARE NOT PERMITTED. DO NOT OVER-EXCAVATE. PROJECT ENGINEER TO REVIEW PROPOSED GRADES WITH CONTRACTOR AS WORK PROGRESSES.
19. ALL AREAS SURROUNDING THE PROJECT SITE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED UPON COMPLETION OF CONSTRUCTION. THE RESTORATION OF THE SITE IS SUBJECT TO APPROVAL BY THE TOWN AND THE PROJECT ENGINEER.
20. FOLLOWING COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL PARTICIPATE IN A FINAL SITE INSPECTION WITH THE TOWN AND PROJECT ENGINEER FOR THE PURPOSE OF VERIFYING THAT THE PROJECT HAS BEEN COMPLETED ACCORDING TO THE CONSTRUCTION PLANS, SPECIFICATIONS AND THE TERMS AND CONDITIONS OF THE CONTRACT.

SITE RESTORATION NOTES:

1. PRESERVE EXISTING NATIVE VEGETATION AS POSSIBLE.
2. EXISTING VEGETATION AND TOPSOIL SHOULD BE REMOVED, STOCKPILED, AND REINSTALLED ON EXPOSED SOILS FOLLOWING CONSTRUCTION, AS POSSIBLE.
3. REMOVE TEMPORARY ACCESS ROADS AND TEMPORARY STOCKPILE AND STAGING AREAS.
4. SEED ALL AREAS DISTURBED DURING CONSTRUCTION USING THE U.S. FISH AND WILDLIFE SERVICE CORTLAND OFFICE'S CONSERVATION MIX
5. MULCH DISTURBED AREAS ACCORDING TO THE STANDARD AND SPECIFICATIONS FOR MULCHING REFERENCED IN THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL, 2016.
6. RESTORE ENTIRE PROJECT SITE TO ORIGINAL OR IMPROVED CONDITION TO BE APPROVED BY THE PROJECT ENGINEER.



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DESCRIPTION	DATE	BY
RAILING LENGTH ADJUSTED	3/14/2018	LAW
SIGN MOVED	3/14/2018	LAW

FINAL DESIGN (90%)

SITE PLAN - PROPOSED CONDITIONS AND SITE RESTORATION

ROME DAM (NY ID #219-1082) REMOVAL

AUSABLE DRIVE
JAY, NEW YORK

BMK/RKS	LAW	RKS
DESIGNED	DRAWN	CHECKED

SCALE: 1" = 40'

DATE: MARCH 7, 2018

PROJECT NO: 5810-01

SHEET NO: 03 OF 12

SHEET NAME: SP-2

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CONSTRUCTION SEQUENCE NOTES:

THIS PROPOSED DAM REMOVAL SEQUENCE IS PROVIDED AS A RECOMMENDED APPROACH. THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING A PROPOSED SEQUENCE TO THE PROJECT ENGINEER FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION.

A STEP A: PRE-CONSTRUCTION ACTIVITIES:

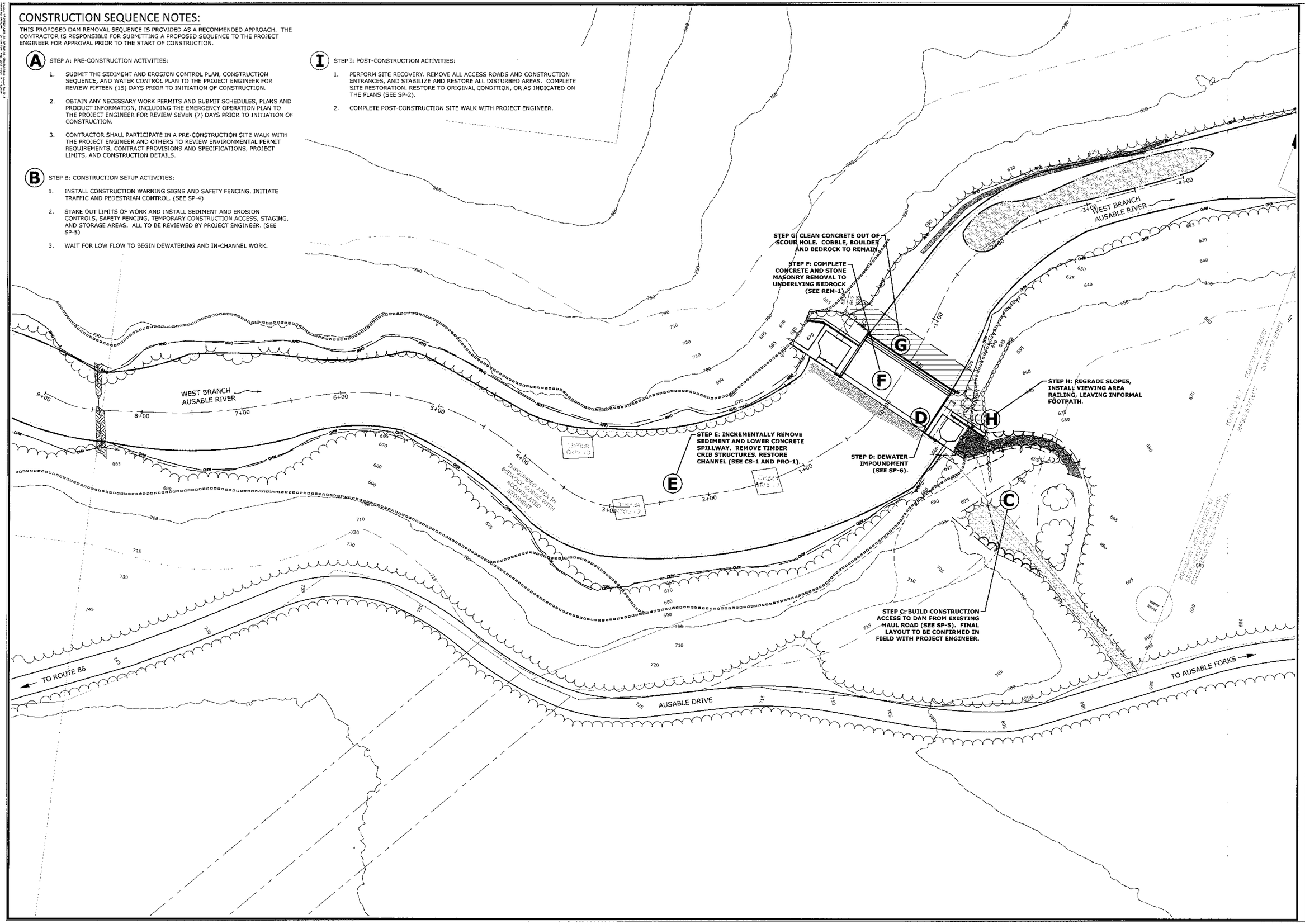
1. SUBMIT THE SEDIMENT AND EROSION CONTROL PLAN, CONSTRUCTION SEQUENCE, AND WATER CONTROL PLAN TO THE PROJECT ENGINEER FOR REVIEW FIFTEEN (15) DAYS PRIOR TO INITIATION OF CONSTRUCTION.
2. OBTAIN ANY NECESSARY WORK PERMITS AND SUBMIT SCHEDULES, PLANS AND PRODUCT INFORMATION, INCLUDING THE EMERGENCY OPERATION PLAN TO THE PROJECT ENGINEER FOR REVIEW SEVEN (7) DAYS PRIOR TO INITIATION OF CONSTRUCTION.
3. CONTRACTOR SHALL PARTICIPATE IN A PRE-CONSTRUCTION SITE WALK WITH THE PROJECT ENGINEER AND OTHERS TO REVIEW ENVIRONMENTAL PERMIT REQUIREMENTS, CONTRACT PROVISIONS AND SPECIFICATIONS, PROJECT LIMITS, AND CONSTRUCTION DETAILS.

B STEP B: CONSTRUCTION SETUP ACTIVITIES:

1. INSTALL CONSTRUCTION WARNING SIGNS AND SAFETY FENCING. INITIATE TRAFFIC AND PEDESTRIAN CONTROL. (SEE SP-4)
2. STAKE OUT LIMITS OF WORK AND INSTALL SEDIMENT AND EROSION CONTROLS, SAFETY FENCING, TEMPORARY CONSTRUCTION ACCESS, STAGING, AND STORAGE AREAS. ALL TO BE REVIEWED BY PROJECT ENGINEER. (SEE SP-5)
3. WAIT FOR LOW FLOW TO BEGIN DEWATERING AND IN-CHANNEL WORK.

I STEP I: POST-CONSTRUCTION ACTIVITIES:

1. PERFORM SITE RECOVERY. REMOVE ALL ACCESS ROADS AND CONSTRUCTION ENTRANCES, AND STABILIZE AND RESTORE ALL DISTURBED AREAS. COMPLETE SITE RESTORATION. RESTORE TO ORIGINAL CONDITION, OR AS INDICATED ON THE PLANS (SEE SP-2).
2. COMPLETE POST-CONSTRUCTION SITE WALK WITH PROJECT ENGINEER.



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DESCRIPTION	DATE	BY
RAILING LENGTH ADJUSTED	3/14/2019	LAW

FINAL DESIGN (90%)

SITE PLAN - CONSTRUCTION SEQUENCE

ROME DAM (NY ID #219-1082) REMOVAL

AUSABLE DRIVE
JAY, NEW YORK

RKS	LAW	RKS
DESIGNED	DRAWN	CHECKED

SCALE: 1" = 40'

DATE: MARCH 7, 2018

PROJECT NO: 5810-01

SHEET NO: 04 OF 12

SHEET NAME: SP-3

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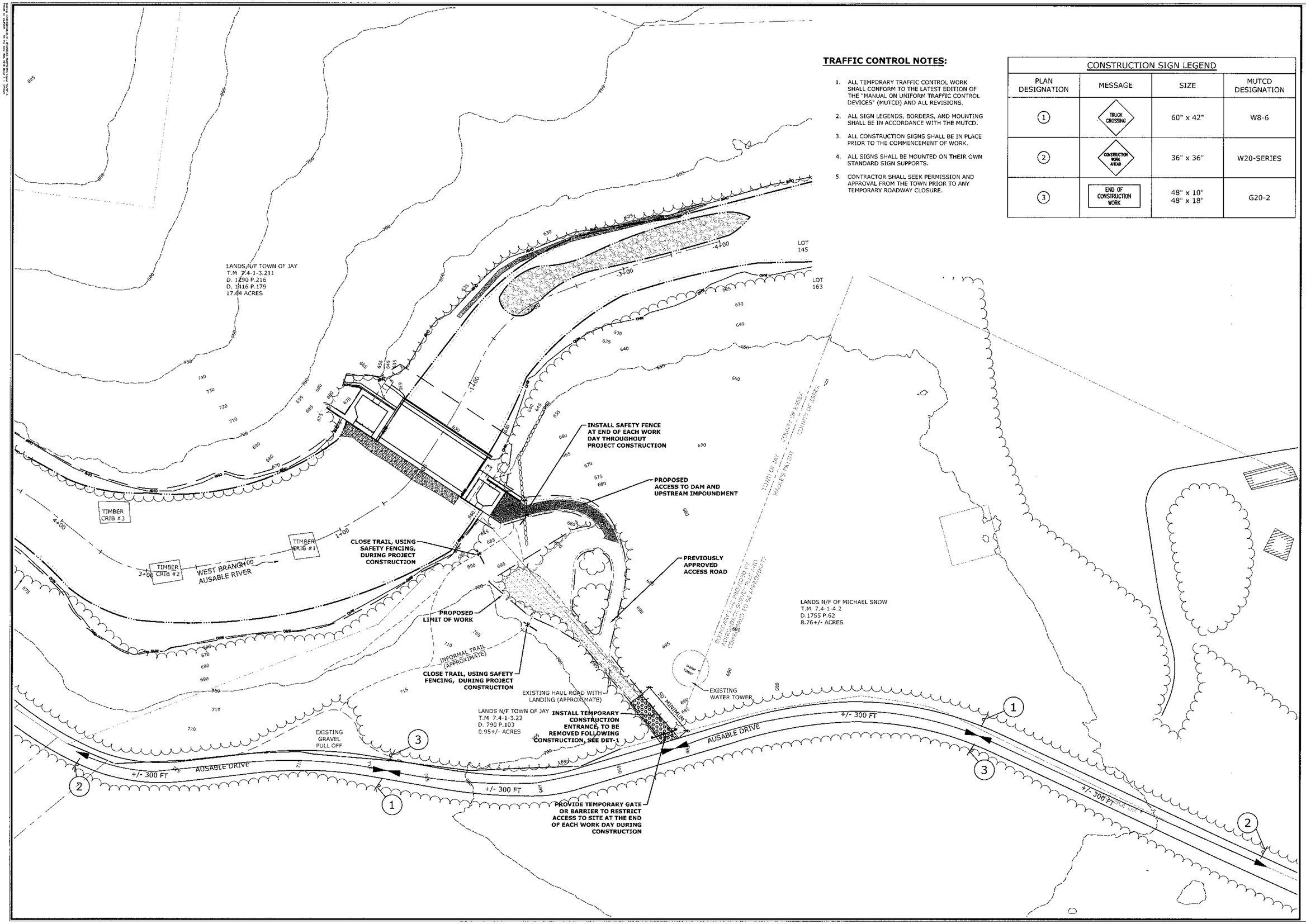

TRAFFIC CONTROL NOTES:

1. ALL TEMPORARY TRAFFIC CONTROL WORK SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND ALL REVISIONS.
2. ALL SIGN LEGENDS, BORDERS, AND MOUNTING SHALL BE IN ACCORDANCE WITH THE MUTCD.
3. ALL CONSTRUCTION SIGNS SHALL BE IN PLACE PRIOR TO THE COMMENCEMENT OF WORK.
4. ALL SIGNS SHALL BE MOUNTED ON THEIR OWN STANDARD SIGN SUPPORTS.
5. CONTRACTOR SHALL SEEK PERMISSION AND APPROVAL FROM THE TOWN PRIOR TO ANY TEMPORARY ROADWAY CLOSURE.

CONSTRUCTION SIGN LEGEND

PLAN DESIGNATION	MESSAGE	SIZE	MUTCD DESIGNATION
1	TRUCK CROSSING	60" x 42"	W8-6
2	CONSTRUCTION WORK AHEAD	36" x 36"	W20-SERIES
3	END OF CONSTRUCTION WORK	48" x 10" 48" x 18"	G20-2

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DESCRIPTION	DATE	BY

FINAL DESIGN (90%)

SITE PLAN - TRAFFIC & PEDESTRIAN CONTROL

ROME DAM (NY ID #219-1082) REMOVAL

AUSABLE DRIVE
JAY, NEW YORK

RKS	LAW	BMC
DESIGNED	DRAWN	CHECKED

SCALE: 1" = 40'

DATE: MARCH 7, 2018

PROJECT NO: 5810-01

SHEET NO: 5 OF 12

SHEET NAME: SP-4

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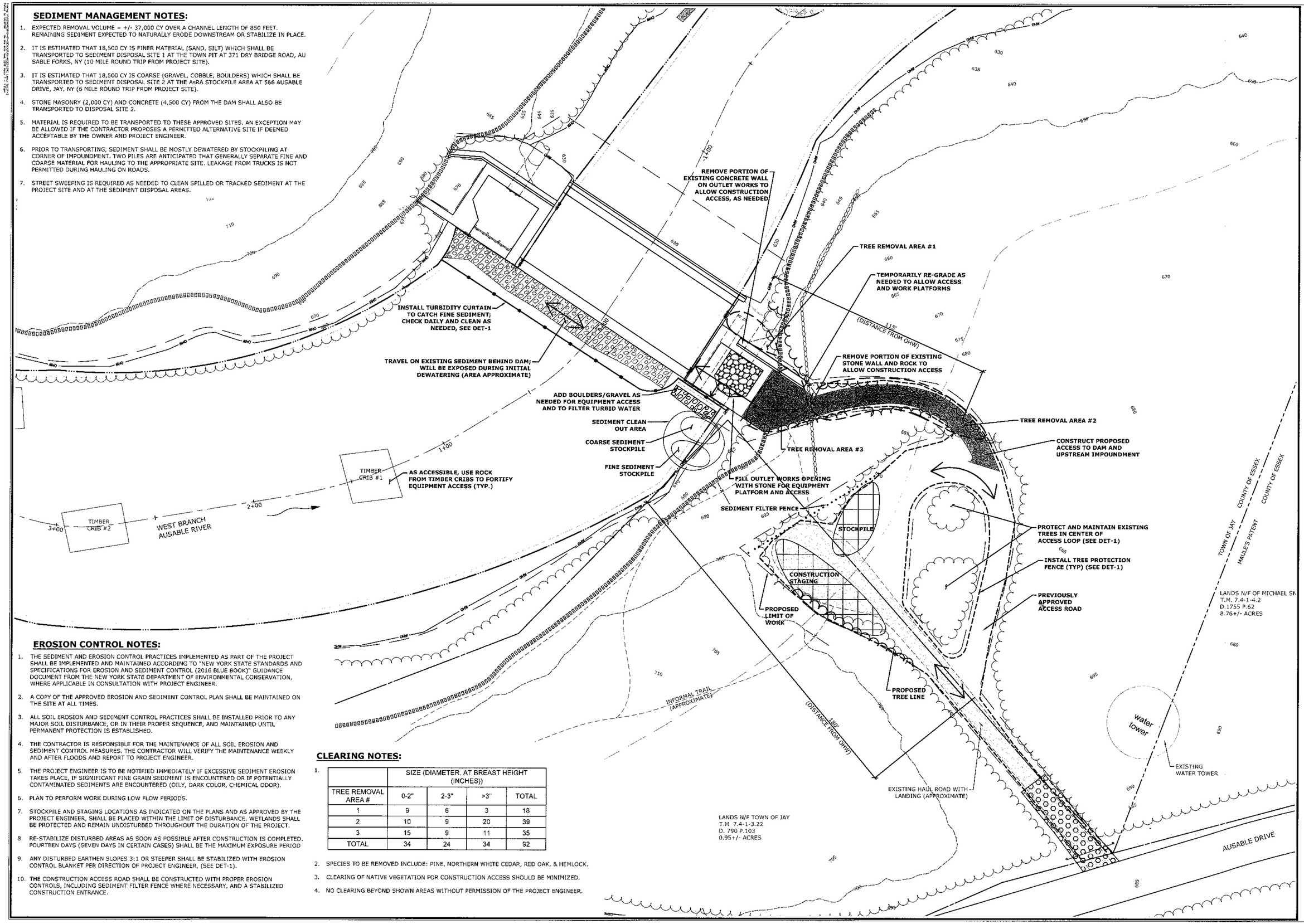
SEDIMENT MANAGEMENT NOTES:

1. EXPECTED REMOVAL VOLUME = +/- 37,000 CY OVER A CHANNEL LENGTH OF 850 FEET. REMAINING SEDIMENT EXPECTED TO NATURALLY ERODE DOWNSTREAM OR STABILIZE IN PLACE.
2. IT IS ESTIMATED THAT 18,500 CY IS FINER MATERIAL (SAND, SILT) WHICH SHALL BE TRANSPORTED TO SEDIMENT DISPOSAL SITE 1 AT THE TOWN PIT AT 371 DRY BRIDGE ROAD, AU SABLE FORKS, NY (10 MILE ROUND TRIP FROM PROJECT SITE).
3. IT IS ESTIMATED THAT 18,500 CY IS COARSE (GRAVEL, COBBLE, BOULDERS) WHICH SHALL BE TRANSPORTED TO SEDIMENT DISPOSAL SITE 2 AT THE AsRA STOCKPILE AREA AT 566 AUSABLE DRIVE, JAY, NY (6 MILE ROUND TRIP FROM PROJECT SITE).
4. STONE MASONRY (2,000 CY) AND CONCRETE (4,500 CY) FROM THE DAM SHALL ALSO BE TRANSPORTED TO DISPOSAL SITE 2.
5. MATERIAL IS REQUIRED TO BE TRANSPORTED TO THESE APPROVED SITES. AN EXCEPTION MAY BE ALLOWED IF THE CONTRACTOR PROPOSES A PERMITTED ALTERNATIVE SITE IF DEEMED ACCEPTABLE BY THE OWNER AND PROJECT ENGINEER.
6. PRIOR TO TRANSPORTING, SEDIMENT SHALL BE MOSTLY DEWATERED BY STOCKPILING AT CORNER OF IMPOUNDMENT. TWO PILES ARE ANTICIPATED THAT GENERALLY SEPARATE FINE AND COARSE MATERIAL FOR HAULING TO THE APPROPRIATE SITE. LEAKAGE FROM TRUCKS IS NOT PERMITTED DURING HAULING ON ROADS.
7. STREET SWEEPING IS REQUIRED AS NEEDED TO CLEAN SPILLED OR TRACKED SEDIMENT AT THE PROJECT SITE AND AT THE SEDIMENT DISPOSAL AREAS.



EROSION CONTROL NOTES:

1. THE SEDIMENT AND EROSION CONTROL PRACTICES IMPLEMENTED AS PART OF THE PROJECT SHALL BE IMPLEMENTED AND MAINTAINED ACCORDING TO "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL (2016 BLUE BOOK)" GUIDANCE DOCUMENT FROM THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, WHERE APPLICABLE IN CONSULTATION WITH PROJECT ENGINEER.
2. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
3. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
4. THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES. THE CONTRACTOR WILL VERIFY THE MAINTENANCE WEEKLY AND AFTER FLOODS AND REPORT TO PROJECT ENGINEER.
5. THE PROJECT ENGINEER IS TO BE NOTIFIED IMMEDIATELY IF EXCESSIVE SEDIMENT EROSION TAKES PLACE, IF SIGNIFICANT FINE GRAIN SEDIMENT IS ENCOUNTERED OR IF POTENTIALLY CONTAMINATED SEDIMENTS ARE ENCOUNTERED (OILY, DARK COLOR, CHEMICAL ODOR).
6. PLAN TO PERFORM WORK DURING LOW FLOW PERIODS.
7. STOCKPILE AND STAGING LOCATIONS AS INDICATED ON THE PLANS AND AS APPROVED BY THE PROJECT ENGINEER, SHALL BE PLACED WITHIN THE LIMIT OF DISTURBANCE. WETLANDS SHALL BE PROTECTED AND REMAIN UNDISTURBED THROUGHOUT THE DURATION OF THE PROJECT.
8. RE-STABILIZE DISTURBED AREAS AS SOON AS POSSIBLE AFTER CONSTRUCTION IS COMPLETED. FOURTEEN DAYS (SEVEN DAYS IN CERTAIN CASES) SHALL BE THE MAXIMUM EXPOSURE PERIOD
9. ANY DISTURBED EARTHEN SLOPES 3:1 OR STEEPER SHALL BE STABILIZED WITH EROSION CONTROL BLANKET PER DIRECTION OF PROJECT ENGINEER, (SEE DET-1).
10. THE CONSTRUCTION ACCESS ROAD SHALL BE CONSTRUCTED WITH PROPER EROSION CONTROLS, INCLUDING SEDIMENT FILTER FENCE WHERE NECESSARY, AND A STABILIZED CONSTRUCTION ENTRANCE.

CLEARING NOTES:

1.

	SIZE (DIAMETER. AT BREAST HEIGHT (INCHES))			
TREE REMOVAL AREA #	0-2"	2-3"	>3"	TOTAL
1	9	6	3	18
2	10	9	20	39
3	15	9	11	35
TOTAL	34	24	34	92

2. SPECIES TO BE REMOVED INCLUDE: PINE, NORTHERN WHITE CEDAR, RED OAK, & HEMLOCK.
3. CLEARING OF NATIVE VEGETATION FOR CONSTRUCTION ACCESS SHOULD BE MINIMIZED.
4. NO CLEARING BEYOND SHOWN AREAS WITHOUT PERMISSION OF THE PROJECT ENGINEER.

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DESCRIPTION	DATE	BY

SITE PLAN - CONSTRUCTION ACCESS, CLEARING & SEDIMENT CONTROL

ROME DAM (NY ID #219-1082) REMOVAL

AUSABLE DRIVE
JAY, NEW YORK

FINAL DESIGN (90%)

RKS	LAW	RKS
DESIGNED	DRAWN	CHECKED

SCALE: 1" = 20'

DATE: MARCH 7, 2018

PROJECT NO: 5810-01

SHEET NO: 6 OF 12

SHEET NAME: SP-5

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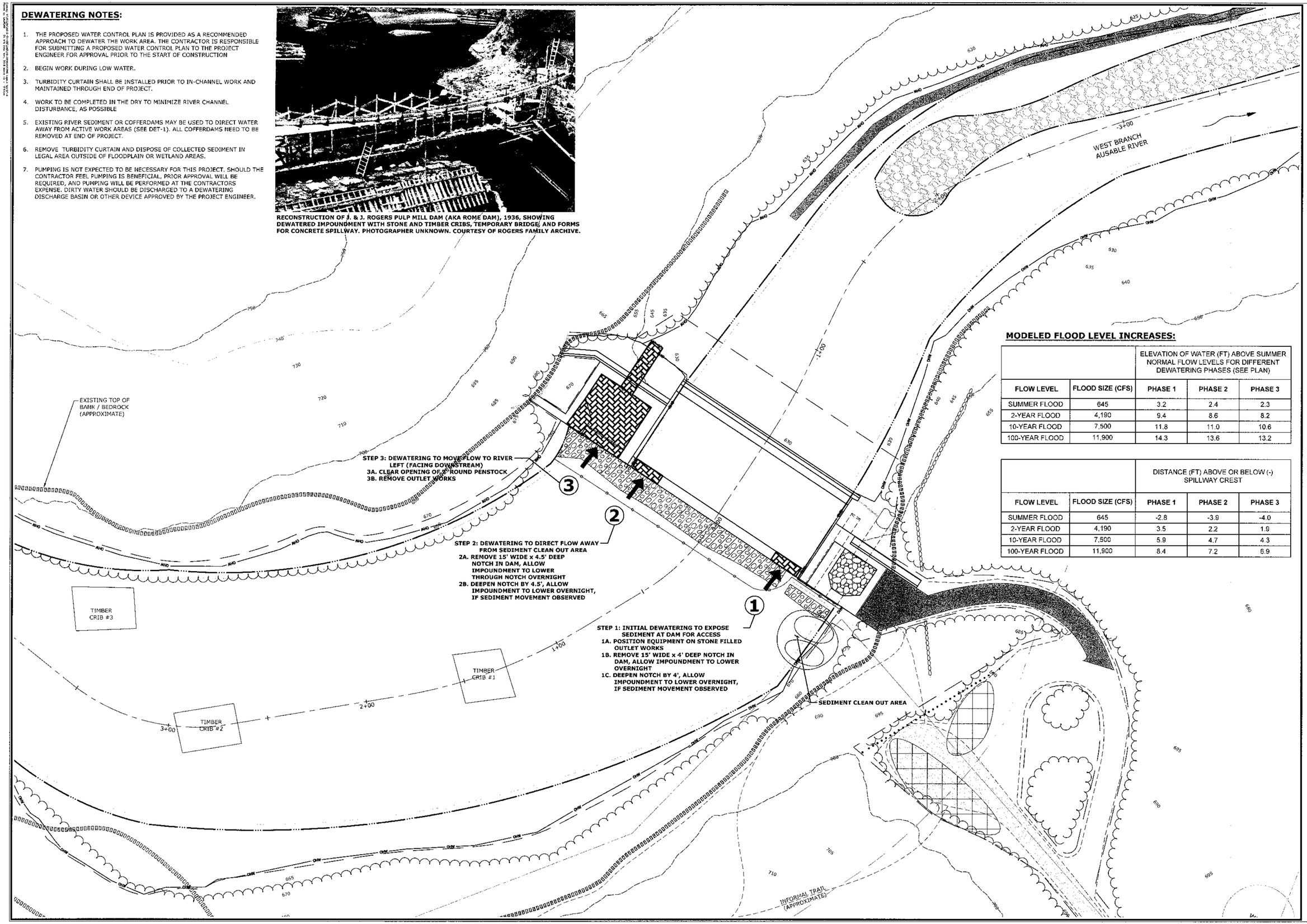
DEWATERING NOTES:

1. THE PROPOSED WATER CONTROL PLAN IS PROVIDED AS A RECOMMENDED APPROACH TO DEWATER THE WORK AREA. THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING A PROPOSED WATER CONTROL PLAN TO THE PROJECT ENGINEER FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION
2. BEGIN WORK DURING LOW WATER.
3. TURBIDITY CURTAIN SHALL BE INSTALLED PRIOR TO IN-CHANNEL WORK AND MAINTAINED THROUGH END OF PROJECT.
4. WORK TO BE COMPLETED IN THE DRY TO MINIMIZE RIVER CHANNEL DISTURBANCE, AS POSSIBLE
5. EXISTING RIVER SEDIMENT OR COFFERDAMS MAY BE USED TO DIRECT WATER AWAY FROM ACTIVE WORK AREAS (SEE DET-1). ALL COFFERDAMS NEED TO BE REMOVED AT END OF PROJECT.
6. REMOVE TURBIDITY CURTAIN AND DISPOSE OF COLLECTED SEDIMENT IN LEGAL AREA OUTSIDE OF FLOODPLAIN OR WETLAND AREAS.
7. PUMPING IS NOT EXPECTED TO BE NECESSARY FOR THIS PROJECT. SHOULD THE CONTRACTOR FEEL PUMPING IS BENEFICIAL, PRIOR APPROVAL WILL BE REQUIRED, AND PUMPING WILL BE PERFORMED AT THE CONTRACTORS EXPENSE. DIRTY WATER SHOULD BE DISCHARGED TO A DEWATERING DISCHARGE BASIN OR OTHER DEVICE APPROVED BY THE PROJECT ENGINEER.

RECONSTRUCTION OF J. & J. ROGERS PULP MILL DAM (AKA ROME DAM), 1936, SHOWING DEWATERED IMPOUNDMENT WITH STONE AND TIMBER CRIBS, TEMPORARY BRIDGE/ AND FORMS FOR CONCRETE SPILLWAY. PHOTOGRAPHER UNKNOWN. COURTESY OF ROGERS FAMILY ARCHIVE.



MODELED FLOOD LEVEL INCREASES:

		ELEVATION OF WATER (FT) ABOVE SUMMER NORMAL FLOW LEVELS FOR DIFFERENT DEWATERING PHASES (SEE PLAN)		
FLOW LEVEL	FLOOD SIZE (CFS)	PHASE 1	PHASE 2	PHASE 3
SUMMER FLOOD	645	3.2	2.4	2.3
2-YEAR FLOOD	4,190	9.4	8.6	8.2
10-YEAR FLOOD	7,500	11.8	11.0	10.6
100-YEAR FLOOD	11,900	14.3	13.6	13.2

		DISTANCE (FT) ABOVE OR BELOW (-) SPILLWAY CREST		
FLOW LEVEL	FLOOD SIZE (CFS)	PHASE 1	PHASE 2	PHASE 3
SUMMER FLOOD	645	-2.8	-3.9	-4.0
2-YEAR FLOOD	4,190	3.5	2.2	1.9
10-YEAR FLOOD	7,500	5.9	4.7	4.3
100-YEAR FLOOD	11,900	8.4	7.2	6.9

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DESCRIPTION	DATE	BY
PHOTO-CAPTION UPDATE	3/15/2018	LAW

FINAL DESIGN (90%)

SITE PLAN - WATER CONTROL

ROME DAM (NY ID #219-1082) REMOVAL

AUSABLE DRIVE
JAY, NEW YORK

RKS	LAW	RKS
DESIGNED	DRAWN	CHECKED

SCALE: 1" = 20'

DATE: MARCH 7, 2018

PROJECT NO: 5810-01

SHEET NO: 7 OF 12

SHEET NAME: SP-6

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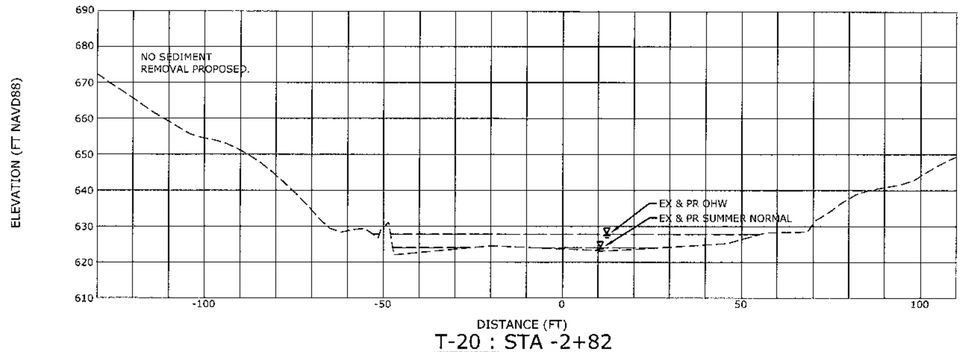
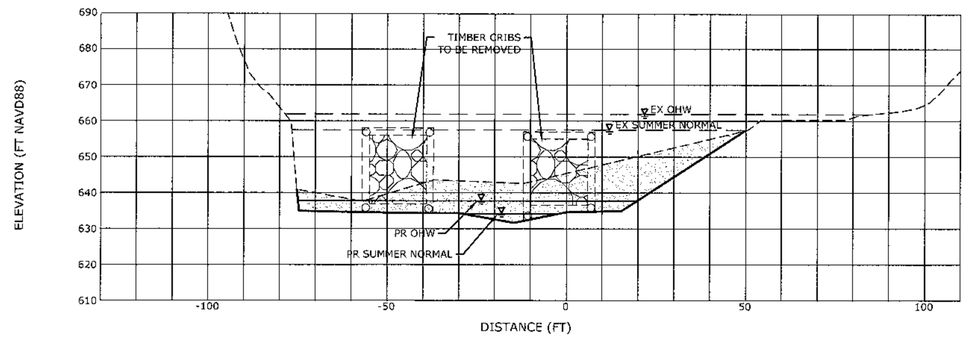
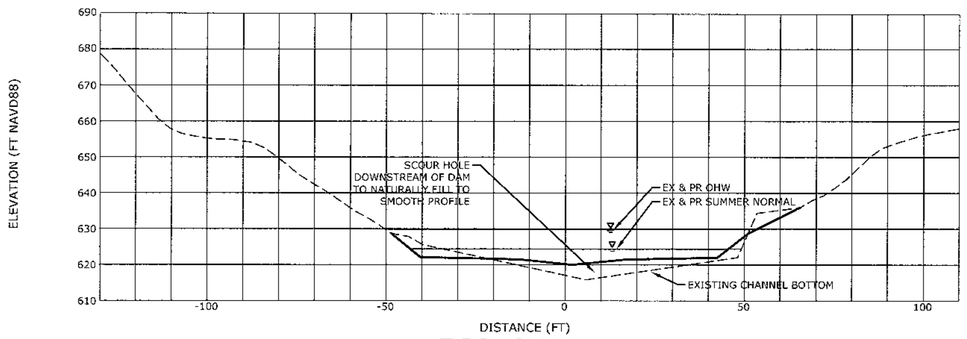
ALL CROSS SECTIONS VIEWED LOOKING DOWNSTREAM



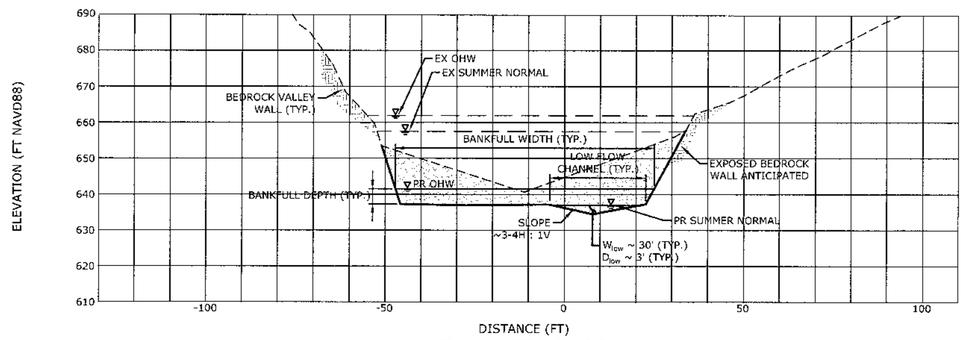
T-20 : STA -2+82



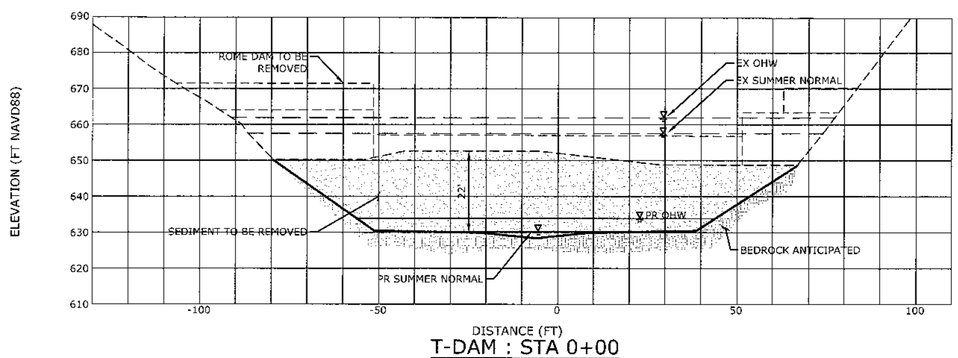
T-23 : STA 3+06



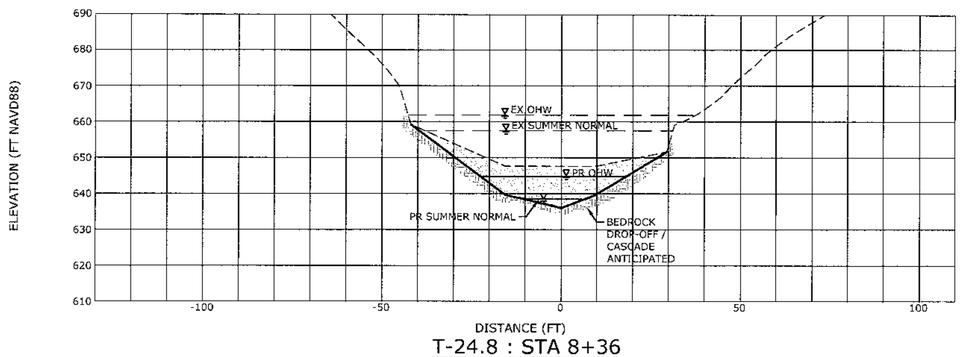
T-DS : STA -1+41



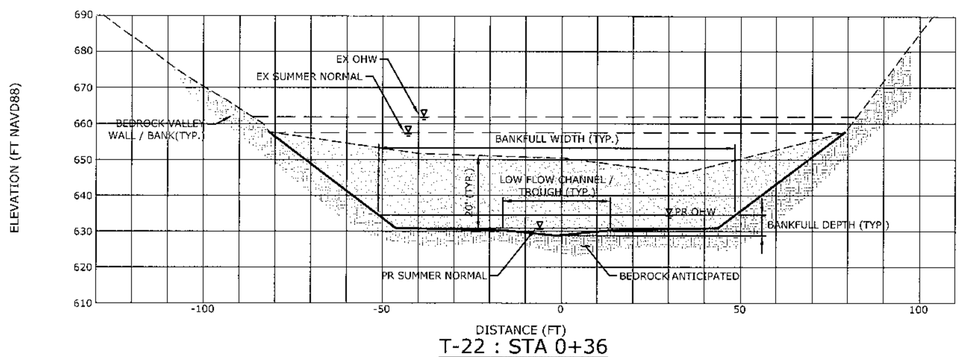
T-24 : STA 5+29
(TYPICAL RIVER SEDIMENT CHANNEL CROSS SECTION)



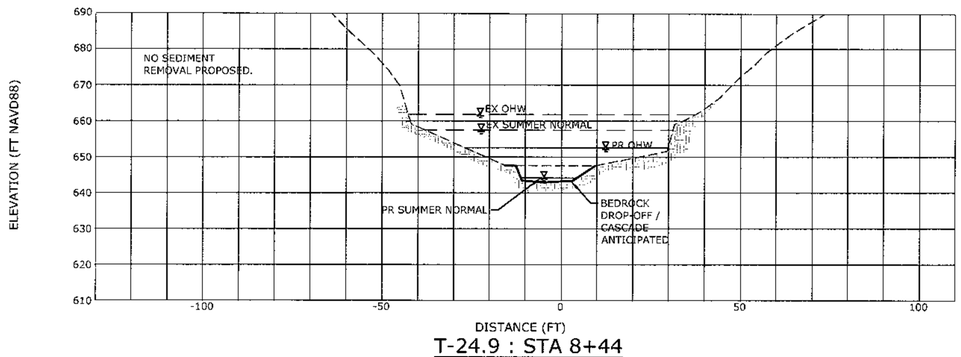
T-DAM : STA 0+00



T-24.8 : STA 8+36



T-22 : STA 0+36
(TYPICAL BEDROCK CHANNEL CROSS SECTION)



T-24.9 : STA 8+44

SECTION NOTES:

1. CROSS SECTIONS VIEWED LOOKING DOWNSTREAM.
2. PROPOSED CHANNEL TO BE CONSTRUCTED USING NATIVE CHANNEL BED MATERIAL, OR BE COMPOSED OF EXISTING BEDROCK.
3. CHANNEL TYPE (BEDROCK OR SEDIMENT) TO BE REFINED IN FIELD WITH PROJECT ENGINEER AFTER DEWATERING AND SEDIMENT REMOVAL.

4. BEDROCK CHANNEL SECTIONS

4A. DO NOT ATTEMPT TO MATCH PROPOSED GRADING IN AREAS WHERE BEDROCK IS ENCOUNTERED.

4B. BEDROCK NOT TO BE REMOVED.

4C. LOW FLOW CHANNEL SET BY BEDROCK.

5. RIVER SEDIMENT CHANNEL SECTIONS

5A. SET LOW FLOW CHANNEL WIDTH TO APPROXIMATELY ½ THE BANKFULL CHANNEL WIDTH.

5B. SET LOW FLOW CHANNEL DEPTH TO APPROXIMATELY ¼ THE BANKFULL CHANNEL DEPTH.

5C. TYPICAL DIMENSIONS:
BANKFULL CHANNEL WIDTH: 60-100';
BANKFULL CHANNEL DEPTH: 3-7'
LOW FLOW CHANNEL WIDTH: 20-30';
LOW FLOW CHANNEL DEPTH 1-4'

5D. ALIGNMENT OF THE LOW FLOW CHANNEL TO BE LOCATED IN THE FIELD DURING CONSTRUCTION BY THE PROJECT ENGINEER.

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DESCRIPTION	DATE	BY

FINAL DESIGN (90%)

CROSS SECTIONS - WEST BRANCH AUSABLE RIVER

ROME DAM (NY ID #219-1082) REMOVAL

AUSABLE DRIVE
JAY, NEW YORK

RKS	LAW	RKS
DESIGNED	DRAWN	CHECKED

SCALE: 1"=20' H, 1"=20' V

DATE: MARCH 7, 2018

PROJECT NO: 5810-01

SHEET NO.: 08 OF 12

SHEET NAME: CS-1

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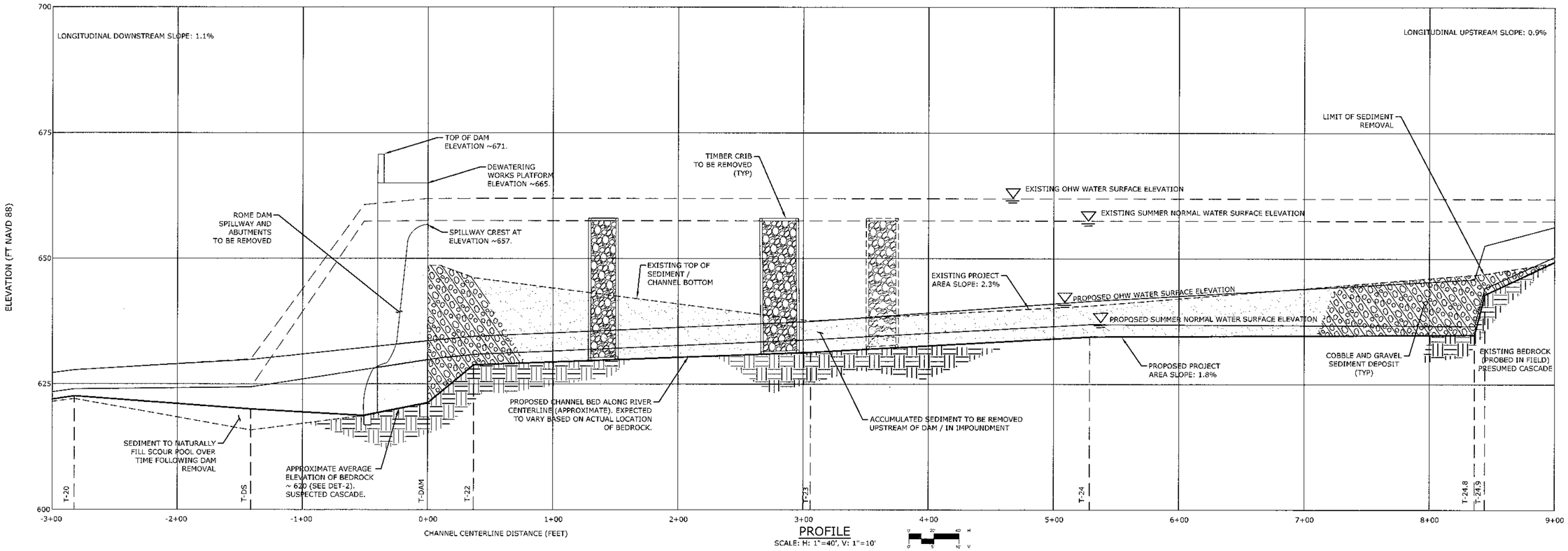
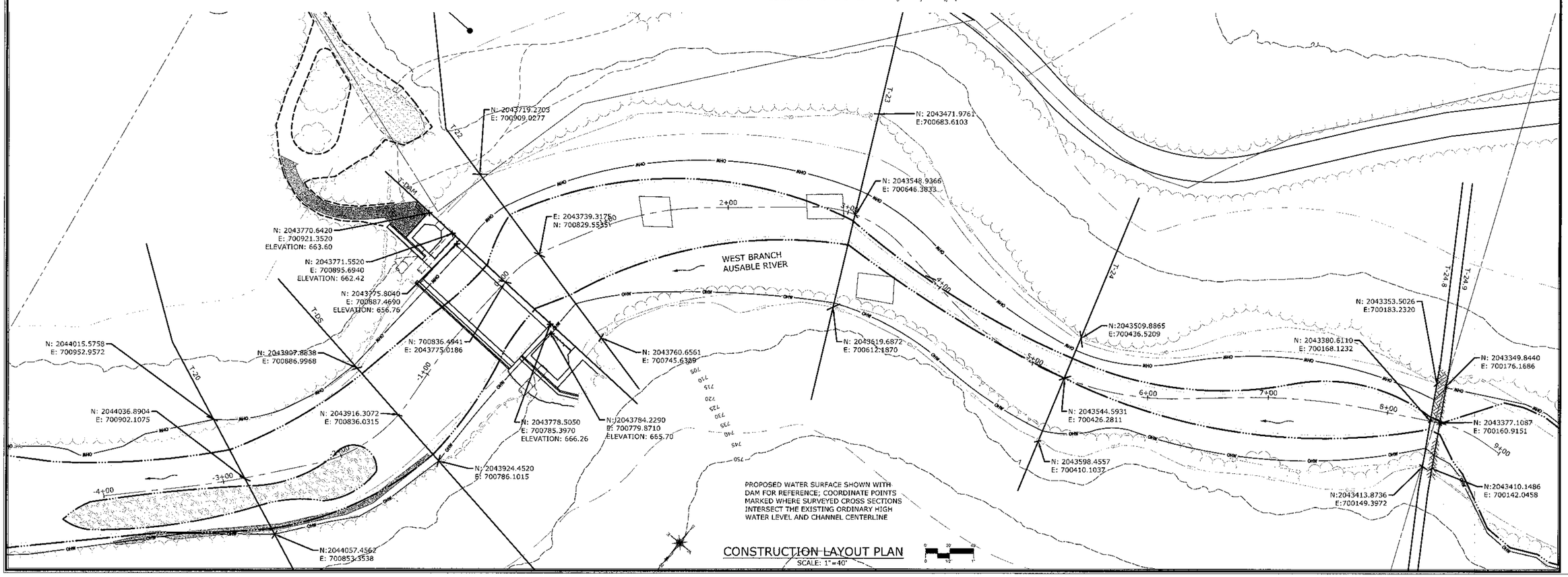


PROFILE

SCALE: H: 1"=40', V: 1"=10'



CONSTRUCTION LAYOUT PLAN

SCALE: 1"=40'

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DESCRIPTION	DATE	BY

FINAL DESIGN (90%)

PROFILE / LAYOUT PLAN - WEST BRANCH AUSABLE RIVER

ROME DAM (NY ID #219-1082) REMOVAL

AUSABLE DRIVE
JAY, NEW YORK

RKS	LAW	RKS
DESIGNED	DRAWN	CHECKED

SCALE: 1"=40' H, 1"=10' V

DATE: MARCH 7, 2018

PROJECT NO: 5810-01

SHEET NO: 09 OF 12

SHEET NAME: PRO-1

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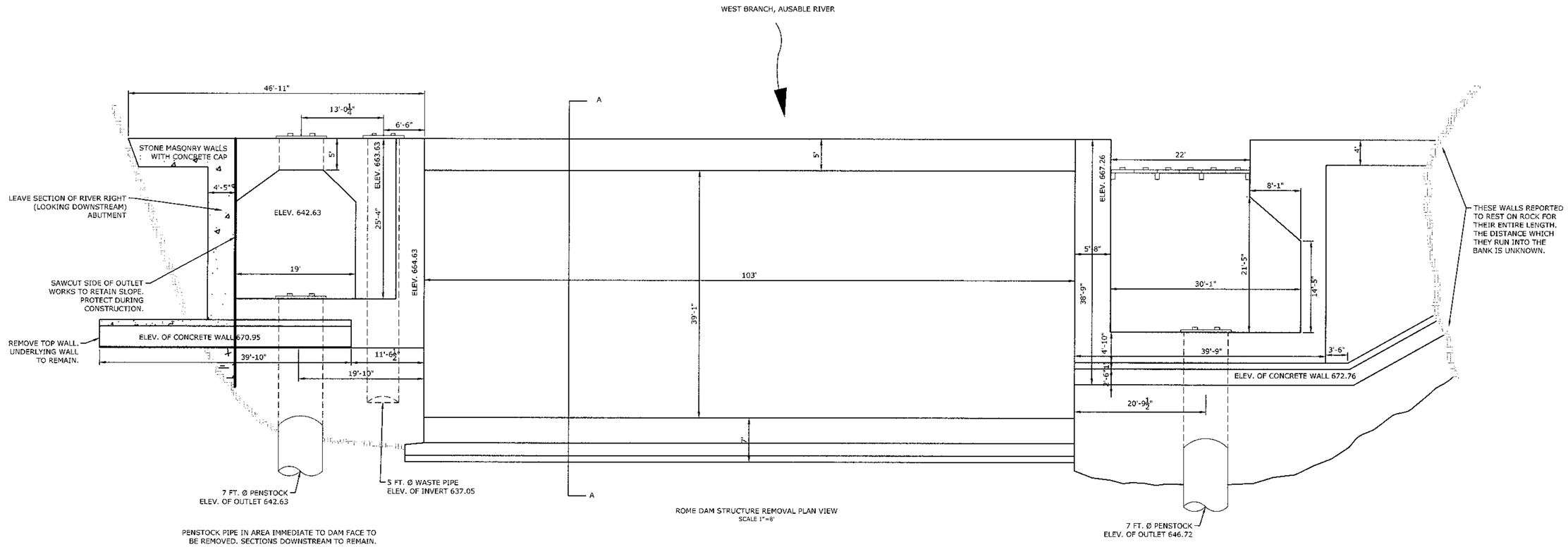
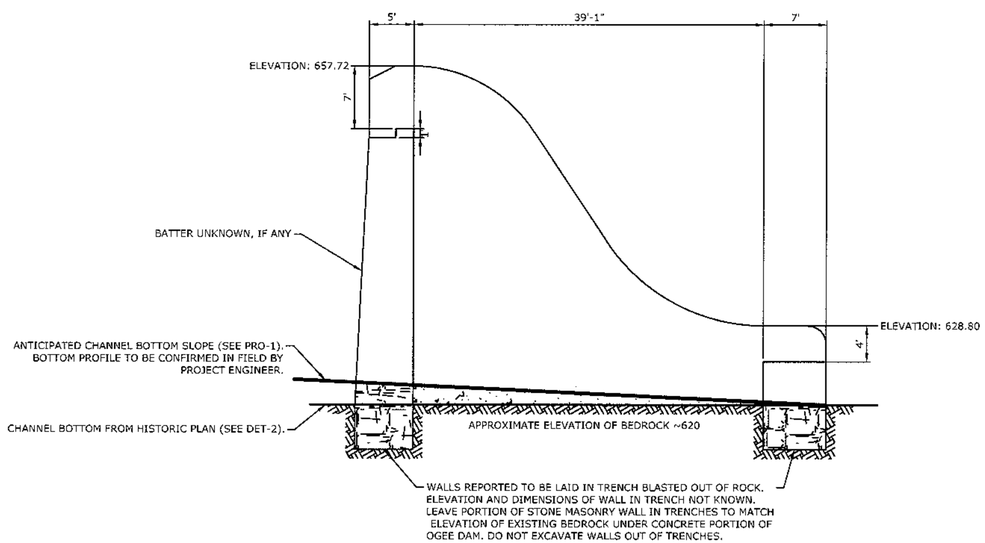


PENSTOCK PIPE IN AREA IMMEDIATE TO DAM FACE TO BE REMOVED. SECTIONS DOWNSTREAM TO REMAIN.

ROME DAM STRUCTURE REMOVAL PLAN VIEW
SCALE 1"=8'



PROFILE VIEW SECTION A-A
SCALE 1"=8'

STRUCTURE REMOVAL NOTES:

1. NO BEDROCK REMOVAL ANTICIPATED.
2. SEDIMENT AND DAM REMOVAL TO ESTABLISH UNIFORM PROFILE, EXCEPT AT BEDROCK FALLS.
3. COMPLETION OF REMOVALS TO BE VERIFIED IN FIELD BY PROJECT ENGINEER.

RECONSTRUCTION OF J. & J. ROGERS PULP MILL DAM (AKA ROME DAM), 1936, SHOWING MASONRY BUTTRESS WALL FROM PRIOR (1893) DAM ON THIS SITE WITH JAMES ROGERS JR. INSPECTING PROGRESS. PHOTOGRAPHER UNKNOWN. COURTESY OF ROGERS FAMILY ARCHIVE.

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DESCRIPTION	DATE	BY
PHOTO CAPTION UPDATE	3/16/2018	LAW

FINAL DESIGN (90%)

REMOVALS

ROME DAM (NY ID #219-1082) REMOVAL

AUSABLE DRIVE
JAY, NEW YORK

RKS	LAW	RKS
DESIGNED	DRAWN	CHECKED

SCALE: 1"=8'

DATE: MARCH 7, 2018

PROJECT NO: 5810-01

SHEET NO: 10 OF 12

SHEET NAME: **REM-1**

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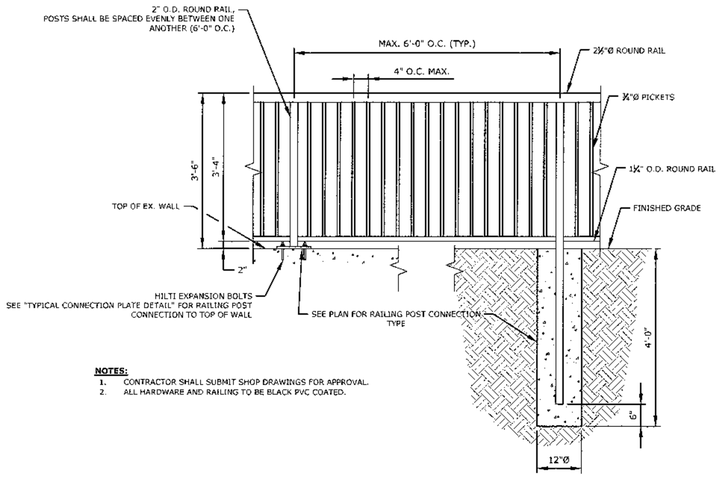
EROSION CONTROL MAINTENANCE INTERVALS

EROSION CONTROL MEASURE	CONTROL OBJECTIVE	INSPECTION/MAINTENANCE	FAILURE INDICATORS	REMOVAL
SILT FENCE	- INTERCEPT, AND REDIRECT/DETAIN SMALL AMOUNTS OF SEDIMENT FROM SMALL DISTURBED AREAS. - DECREASE VELOCITY OF SHEET FLOW. - PROTECT SENSITIVE SLOPES OR SOILS FROM EXCESSIVE WATER FLOW.	INSPECT AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL OF 0.5 INCHES OR MORE. ACCUMULATED SEDIMENT MUST BE REMOVED ONCE ITS DEPTH IS EQUAL TO ½ THE TRENCH HEIGHT. INSPECT FREQUENTLY DURING PUMPING OPERATIONS IF USED FOR DEWATERING OPERATIONS.	- PHYSICAL DAMAGE OR DECOMPOSITION - EVIDENCE OF OVERTOPPED OR UNDERCUT FENCE - EVIDENCE OF SIGNIFICANT FLOWS EVADING CAPTURE - REPETITIVE FAILURE	- SILT FENCE MAY BE REMOVED AFTER UPHILL AND SENSITIVE AREAS HAVE BEEN PERMANENTLY STABILIZED.
STABILIZED CONSTRUCTION ENTRANCE	- REDUCE THE TRACKING OF SEDIMENT OFF-SITE ONTO PAVED SURFACES.	INSPECT AT THE END OF EACH WORK DAY AND IMMEDIATELY REPAIR DAMAGES. PERIODIC ADDITION OF STONE, OR LENGTHENING OF ENTRANCE MAY BE REQUIRED AS CONDITIONS DEMAND. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PAVED SURFACES AS A RESULT OF INEFFICIENCY OF CONSTRUCTION ENTRANCE SHALL BE IMMEDIATELY REMOVED.	- SEDIMENT IN ROADWAY ADJACENT TO SITE	CONSTRUCTION ENTRANCE MAY BE REMOVED ONCE THE SITE HAS BEEN PERMANENTLY STABILIZED, AND ALL OTHER SECTIONS OF ROADWAY HAVE BEEN PERMANENTLY PAVED.
TURBIDITY CURTAIN	- TRAP FINE SEDIMENT IN WATERBODIES FROM REACHING DOWNSTREAM.	INSPECT DAILY AND REPAIR OR REPLACE IMMEDIATELY. IT IS NOT NORMALLY NECESSARY TO REMOVE SEDIMENT DEPOSITED BEHIND THE CURTAIN; BUT, WHEN NECESSARY, REMOVAL IS USUALLY DONE BY HAND PRIOR TO REMOVAL OF THE BARRIER. ALL REMOVED SILT IS STABILIZED AWAY FROM THE WATERBODY.	- PUNCTURES TO CURTAIN CAUSED BY DEBRIS -EXCESSIVE SEDIMENT DOWNSTREAM OF CURTAIN	ONCE INSTREAM WORK IS COMPLETED, BARRIER SHALL BE REMOVED BY CAREFULLY PULLING IT TOWARD THE RIVER BANK TO MINIMIZE THE RELEASE OF ATTACHED SEDIMENT.

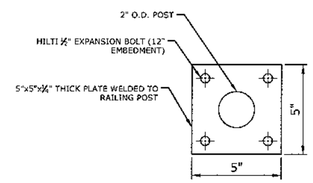
(NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL, 2016)



NOTES:
1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL.
2. ALL HARDWARE AND RAILING TO BE BLACK PVC COATED.

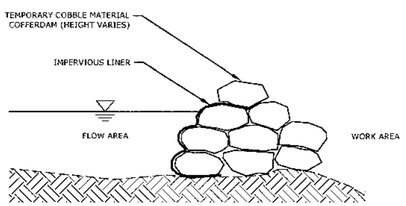
ORNAMENTAL METAL RAILING (42" HIGH)

NOT TO SCALE



TYPICAL CONNECTION PLATE DETAIL

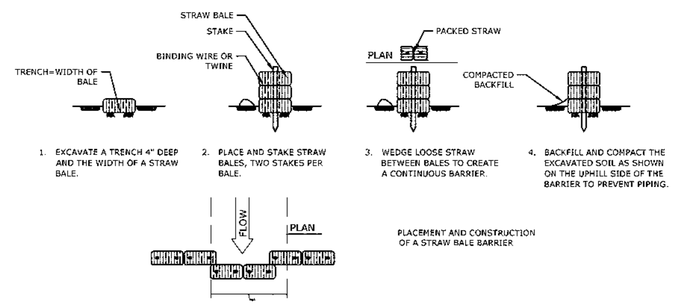
NOT TO SCALE



NOTES:
1. COFFER DAM AND PUMP SYSTEM TO BE SIZED FOR NORMAL FLOW CONDITIONS.

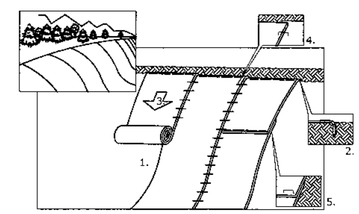
TEMPORARY COBBLE COFFERDAM

NOT TO SCALE



PLACEMENT & CONSTRUCTION OF A STRAW BALE BARRIER

NOT TO SCALE



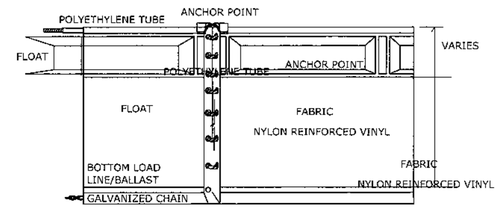
1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING S150, DO NOT SEED PREPARED AREA. S150 MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP BY 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
3. ROLL THE BLANKETS DOWN THE SLOPE IN THE DIRECTION OF THE WATER FLOW.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" OVERLAP.
5. WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 6" OVERLAP. STAPLE THROUGH OVERLAP AREA, APPROXIMATELY 12" APART.

REFER TO GENERAL STAPLE PATTERN GUIDE IN NORTH AMERICAN GREEN CATALOG FOR CORRECT STAPLE PATTERN RECOMMENDATIONS FOR SLOPE INSTALLATIONS.

NOTES:
TO BE PAID FOR UNDER ITEM 209.190301 ROLLED EROSION CONTROL PRODUCT, CLASS II, TYPE C, INTERMEDIATE

APPLICATION OF EROSION CONTROL BLANKET ON SLOPES

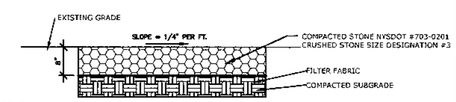
NOT TO SCALE



NOTES:
1. HEIGHT OF THE CURTAIN SHALL BE 20% GREATER THAN THE DEPTH OF WATER TO ALLOW FOR WATER LEVEL FLUCTUATIONS.
2. TURBIDITY CURTAIN IS EXPECTED TO FOLD AND BUNCH IN THE WATER COLUMN.
3. ALTERNATIVES MAY BE APPROVED BY THE PROJECT ENGINEER.

TURBIDITY CURTAIN

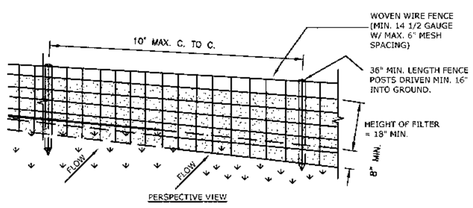
NOT TO SCALE

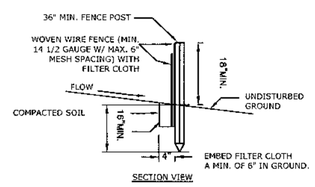


NOTES:
1. CRUSHED STONE #3 TO BE REMOVED UPON COMPLETION OF CONSTRUCTION, AND REPLACED WITH TOPSOIL. DISTURBED AREAS TO BE SEEDED AND MULCHED ACCORDING TO THE RESTORATION PLAN.

TEMPORARY CONSTRUCTION ACCESS ROAD

NOT TO SCALE

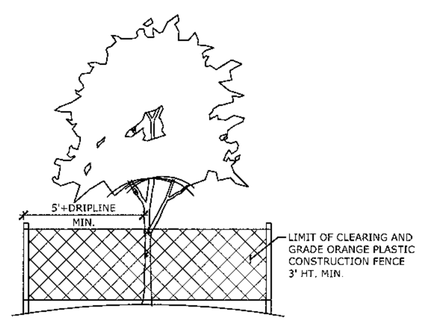




NOTES:
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
2. FILTER CLOTH TO BE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 12 1/2 GAUGE, 6" MAXIMUM MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
4. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

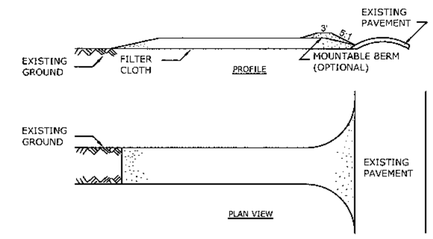
SEDIMENT FILTER FENCE

NOT TO SCALE



TREE PROTECTION DETAIL

NOT TO SCALE



NOTES:
1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACTED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

CONSTRUCTION ENTRANCE ANTI-TRACKING PAD

NOT TO SCALE

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Waterbury, Vermont 05676
(802) 882-8335
Fax (802) 882-8346
www.miloneandmacbroom.com

DESCRIPTION	DATE	BY

FINAL DESIGN (90%)

DETAILS

ROME DAM (NY ID #219-1082) REMOVAL

AUSABLE DRIVE
JAY, NEW YORK

RKS	LAW	RKS
DESIGNED	DRAWN	CHECKED

VARIES
SCALE

MARCH 7, 2018
DATE

5810-01
PROJECT NO

11 OF 12
SHEET NO.

DET-1
SHEET NAME

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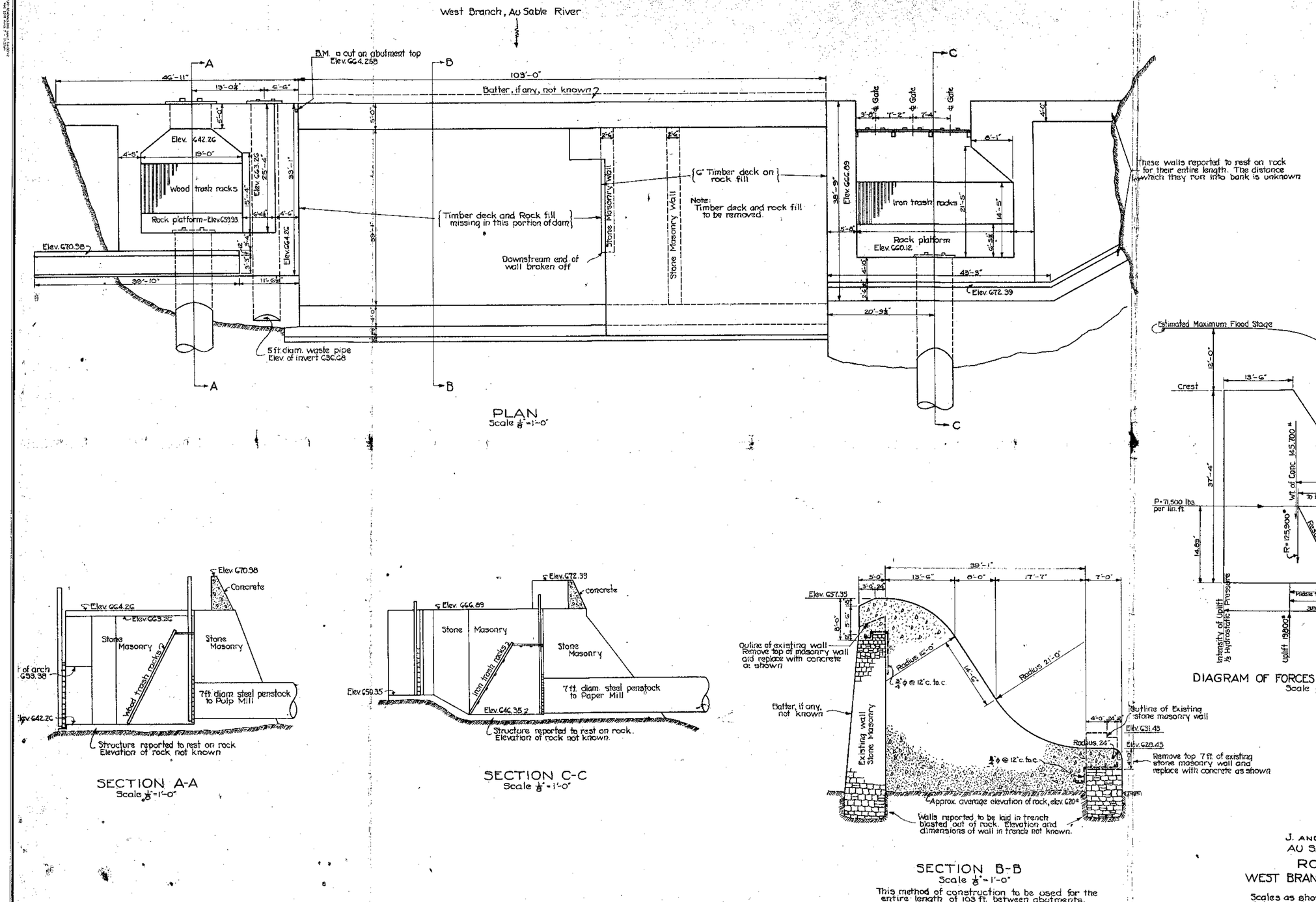

SCAN OF 1936 DAM REPAIR PLAN (FOR INFORMATIONAL PURPOSES ONLY)

NOT TO SCALE

ELEVATIONS SHOWN ON PLAN REFERENCE FT NGVD29. TO CONVERT TO FT NAVD88: FT NAVD88 = FT NVGD29 + 0.374 FT

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DESCRIPTION	DATE	BY

FINAL DESIGN (90%)

DETAILS - HISTORICAL

ROME DAM (NY ID #-219-1082) REMOVAL

AUSABLE DRIVE
JAY, NEW YORK

DESIGNED	DRAWN	CHECKED
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SCALE

DATE: MARCH 7, 2018

PROJECT NO: 5810-01

SHEET NO: 12 OF 12

SHEET NAME: DET-2

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