

NEW YORK STATE CANAL CORPORATION
EASTERN REGION, UTICA SECTIONPLANS FOR
CULVERT REPLACEMENT 1,400 FEET WEST OF THOMAS ROAD
AND EMPIRE STATE TRAIL REPAIRS BETWEEN REBER ROAD
AND THOMAS ROAD ON THE OLD ERIE CANAL
IN THE
TOWN OF WHITESTOWN AND CITY OF ROME, ONEIDA COUNTY
34 SHEETS

TYPE OF CONSTRUCTION:

CULVERT REPLACEMENT AND CANALWAY TRAIL REPAIRS

STANDARD SHEETS:

THE LATEST REVISIONS OF THE STANDARD SHEETS MAINTAINED BY NYSOT, WHICH ARE CURRENT ON THE DATE OF ADVERTISEMENT FOR BIDS, SHALL BE CONSIDERED TO BE IN EFFECT. ALL PAY ITEMS AND WORK CONTAINED IN THE CONTRACT AND ANY ADDITIONAL PAY ITEMS AND WORK ENCOUNTERED DURING THE COURSE OF THE CONTRACT SHALL BE SUBJECT TO THE APPLICABLE STANDARD SHEETS UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS.

NOTES:

ALL WORK CONTEMPLATED UNDER THIS CONTRACT IS TO BE COVERED BY AND IN CONFORMITY WITH THE STANDARD SPECIFICATIONS (U.S. CUSTOMARY) REFERENCED IN THE CONTRACT PROPOSAL, EXCEPT AS MODIFIED BY THESE PLANS OR CHANGES SET FORTH IN THE CONTRACT PROJECT PROPOSAL.

CONTRACT PLANS HAVE BEEN DESIGNED IN ACCORDANCE WITH NEW YORK STATE CANAL CORPORATION POLICIES AND GUIDELINES.

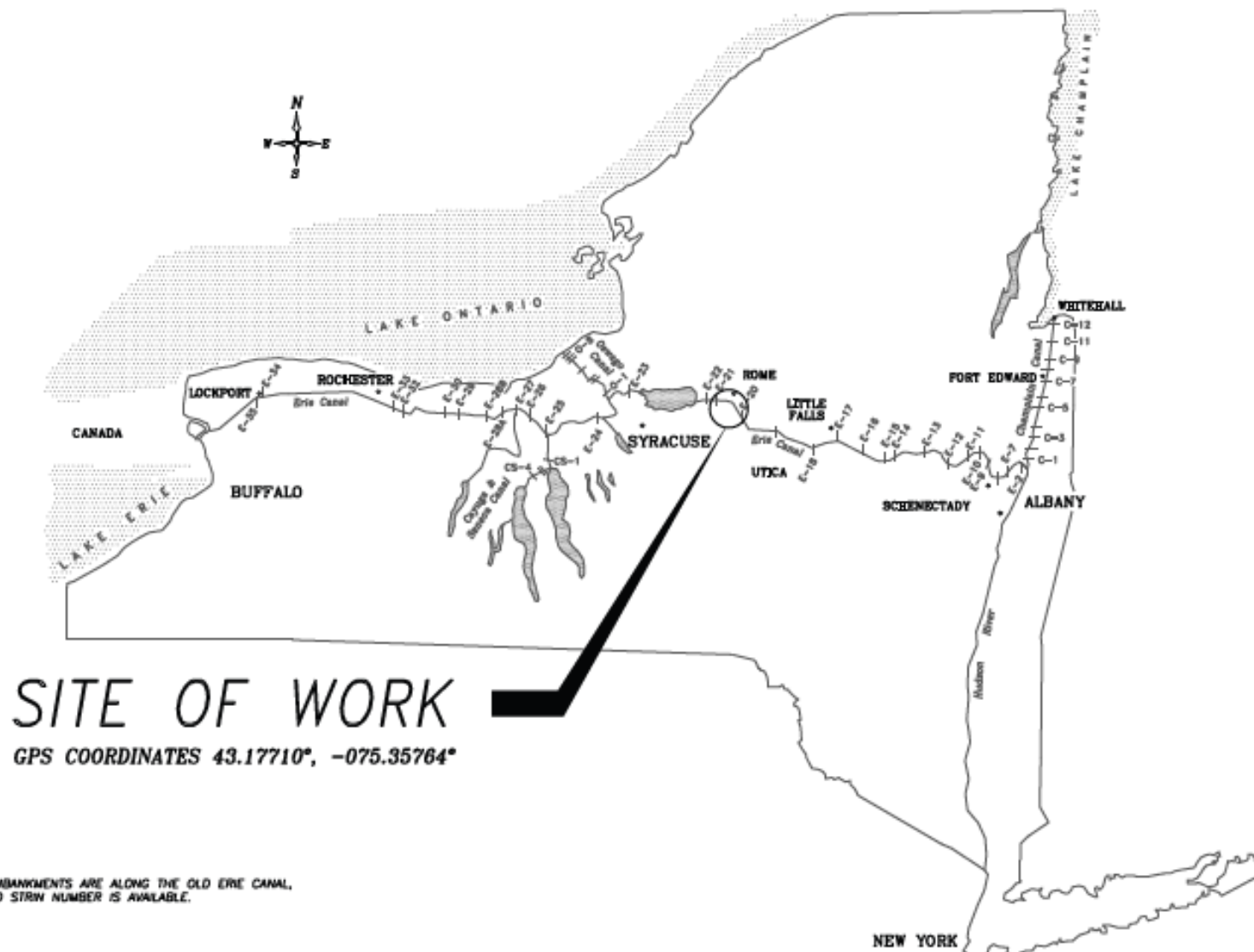
UDG NY
UNDERGROUND FACILITIES PROTECTION ORGANIZATION
CALL 811

PREPARED AND RECOMMENDED BY:

Luke M. Momenus

DATE 9/24/2024

CHA CONSULTING INC.
LUKE M. MOMENUS PE
LICENSE NUMBER 079357



SITE OF WORK

GPS COORDINATES 43.17710°, -075.35764°

CONTRACTOR'S NAME:

INSPECTION FIRM'S NAME:

CANAL PROJECT ENGINEER:

AWARD DATE

COMPLETION DATE

FINAL ACCEPTANCE DATE

LOW BID AMOUNT

FINAL CONTRACT AMOUNT

NOTE: EMBANKMENTS ARE ALONG THE OLD ERIE CANAL.
NO STRIP NUMBER IS AVAILABLE.

RECOMMENDED BY:

Joseph Savino

DIRECTOR, DESIGN

09/26/2024

DATE

RECOMMENDED BY:

Edwin Lawson

Edwin Lawson (Sep 26, 2024 14:30 EDT)

09/26/2024

DATE

RECOMMENDED BY:

Joseph Moloughney

REGIONAL CANAL ENGINEER

09/27/2024

DATE

RECOMMENDED BY:

Ambrose Barbuto

DIRECTOR, WATERWAYS MAINTENANCE

09/27/2024

DATE

APPROVED BY:

*David Mollen*David Mollen (Sep 26, 2024 14:10 EDT)
NYPA REGIONAL MANAGER - CANALS

09/30/2024

DATE

FILE NAME : V:\Projects\ANY\K6\073183.000\091.Design\Drawings\Hwy\Package 3 - Culvert Replacement near Thomas Road\073183.cph.ind.01.thomas.culvert.dgn
DATE/TIME : 03-OCT-2024
USER : 7558
DESIGN SUPERVISOR: LMM

CHECKED BY: LMM

DRAFTED BY: JLC

CHECKED BY:

DESIGNED BY: JLC

DESIGN SUPERVISOR: LMM

ALIGNMENT	
ABBR.	DESCRIPTION
AH	AHEAD
AZ	AZIMUTH
BK	BACK
B	BASELINE
BRG	BEARING
C	CENTERLINE
CS	CURVE TO SPIRAL
e	SUPERELEVATION RATE (CROSS SLOPE)
EQ	EQUALITY
EXT	EXTERNAL
HCL	HORIZONTAL CONTROL LINE
HSD	HEADLIGHT SIGHT DISTANCE
L	LENGTH OF CIRCULAR CURVE
LS	LENGTH OF SPIRAL
LVC	LENGTH OF VERTICAL CURVE
E	CENTER CORRECTION OF VERTICAL CURVE
M	MAIN LINE
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
POL	POINT ON LINE
PSD	PASSING SIGHT DISTANCE
PT	POINT OF TANGENT
PVC	POINT OF VERTICAL CURVE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENT
R	RADIUS
SC	SPIRAL TO CURVE
SSD	STOPPING SIGHT DISTANCE
ST	SPIRAL TO TANGENT
STA	STATION
T	TANGENT LENGTH
TGL	THEORETICAL GRADE LINE
TS	TANGENT TO SPIRAL
VC	VERTICAL CURVE
UTILITIES	
ABBR.	DESCRIPTION
E	ELECTRIC
EMH	ELECTRIC MANHOLE
G	GAS
GP	GUY POLE
GSB	GAS SERVICE BOX (HOUSE LINE)
GV	GAS VALVE (MAIN LINE)
HYD	HYDRANT
LP	LIGHT POLE
LPG	LOW PRESSURE GAS
PP	POWER POLE
SA	SANITARY SEWER
SMH	SANITARY MANHOLE
ST	STORM SEWER
T	TELEPHONE
TCB	TRAFFIC CONTROL BOX
TELBOX	TELEPHONE BOX
TEL P	TELEPHONE POLE
TMH	TELEPHONE MANHOLE
CTV	CABLE TELEVISION
W	WATER
WSB	WATER SERVICE BOX (HOUSE LINE)
WV	WATER VALVE (MAIN LINE)

TOPOGRAPHY (MISCELLANEOUS)	
ABBR.	DESCRIPTION
ABUT	ABUTMENT
AOBE	AS ORDERED BY ENGINEER
ASPH	ASPHALT
BCD	BARGE CANAL DATUM
BDY	BOUNDARY
BLDG	BUILDING
BM	BENCH MARK
CC	CENTER TO CENTER
CONC	CONCRETE
CR	COUNTY ROAD
D	DEED DISTANCE
DWY	DRIVEWAY
EP	EDGE OF PAVEMENT
ES	EDGE OF SHOULDER
FEE	FEE ACQUISITION
FEE WO/A	FEE ACQUISITION WITHOUT ACCESS
FP	FENCE POST
FD	FOUNDATION
FL	FENCE LINE
GAR	GARAGE
GR	GRAVEL
HWY	HIGHWAY
N&W	NAIL AND WASHER
NYSCC	NEW YORK STATE CANAL CORPORATION
OG	ORIGINAL GROUND
O/H	OVERHEAD
P	PARCEL
PAV'T	PAVEMENT
PE	PERMANENT EASEMENT
PED POLE	PEDESTRIAN POLE
P	PROPERTY LINE
POR	PORCH
RR	RAILROAD
RTE	ROUTE
ROW	RIGHT OF WAY
RW	RETAINING WALL
SH	STATE HIGHWAY
SHLDR	SHOULDER
SPK	SPIKE
ST	STREET
STK	STAKE
STY	STORY
SW	SIDEWALK
TE	TEMPORARY EASEMENT
TO	TEMPORARY OCCUPANCY
U/G	UNDERGROUND
WW	WING WALL
TOPOGRAPHY (DRAINAGE)	
ABBR.	DESCRIPTION
BO	BOTTOM OF OPENING
STRM	CENTERLINE OF STREAM
CULV	CULVERT
DIA	DIAMETER
DMH	DRAINAGE MANHOLE
DS	DRAINAGE STRUCTURE PIPE
D'XING	DITCH CROSSING
EL	ELEVATION
ELEV	ELEVATION
ES	END SECTION
INV	INVERT
MH	MANHOLE
RCP	REINFORCED CONCRETE PIPE
TB	TOP OF BANK (STREAM)
TC	TOP OF CURB
TG	TOP OF GRATE
SICPP	SMOOTH INTERIOR CORRUGATED POLYETHYLENE PIPE

ESTIMATE OF QUANTITIES (THOMAS ROAD - CULVERT REPLACEMENT)				
ITEM	DESCRIPTION	UNIT	ESTIMATED QUANTITY	FINAL QUANTITY
201.06	CLEARING AND GRUBBING	LS	1	
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CY	504	
203.02000012	UNCLASSIFIED EXCAVATION AND DISPOSAL OF SEDIMENT	CY	50	
203.03	EMBANKMENT IN PLACE	CY	1304	
203.07	SELECT GRANULAR FILL	CY	274	
206.01	STRUCTURE EXCAVATION	CY	1997	
206.0201	TRENCH & CULVERT EXCAVATION	CY	97	
207.20	GEOTEXTILE BEDDING	SY	115	
207.26	PREFABRICATED COMPOSITE STRUCTURAL DRAIN	SY	50	
209.13	SILT FENCE-TEMPORARY	LF	329	
209.1003	SEED AND MULCH - TEMPORARY	SY	1501	
304.07010012	CRUSHER RUN LIMESTONE COURSE	CY	487	
304.11	SUBBASE COURSE, TYPE 1	CY	8	
304.12	SUBBASE COURSE, TYPE 2	CY	75	
553.010001	COFFERDAMS (TYPE 1)	EA	1	
553.010002	COFFERDAMS (TYPE 1)	EA	1	
553.010003	COFFERDAMS (TYPE 1)	EA	1	
556.0203	GALVANIZED BAR REINFORCEMENT FOR STRUCTURES	LB	113	
586.0201	DRILLING AND GROUTING BOLTS OR REINFORCING BARS	EA	68	
595.50000018	SHEET APPLIED WATERPROOFING MEMBRANE	SF	854	
603.63161015	PRECAST CONCRETE BOX CULVERT, 16 FOOT SPAN, 10 FOOT RISE	LF	38	
603.67000001	PRECAST CONCRETE WINGWALL UNITS FOR BOX CULVERTS	SY	71	
607.41010010	TEMPORARY PLASTIC BARRIER FENCE	LF	365	
607.43----12	WOOD RAIL FENCE (3 RAIL)	LF	628	
610.1403	TOPSOIL - LAWN	CY	275	
610.1602	TURF ESTABLISHMENT - LAWN	SY	3294	
613.04000001	STOCKPILING AND PLACING EXISTING STREAM BED MATERIALS	CY	54	
614.060102	TREE REMOVAL OVER 4 INCHES TO 6 INCHES DIAMETER BREAST HEIGHT - STUMPS CUT FLUSH	EA	9	
614.060202	TREE REMOVAL OVER 6 INCHES TO 12 INCHES DIAMETER BREAST HEIGHT - STUMPS CUT FLUSH	EA	59	
614.060302	TREE REMOVAL OVER 12 INCHES TO 18 INCHES DIAMETER BREAST HEIGHT - STUMPS CUT FLUSH	EA	55	
614.060402	TREE REMOVAL OVER 18 INCHES TO 24 INCHES DIAMETER BREAST HEIGHT - STUMPS CUT FLUSH	EA	13	
614.060502	TREE REMOVAL OVER 24 INCHES TO 36 INCHES DIAMETER BREAST HEIGHT - STUMPS CUT FLUSH	EA	11	
614.060602	TREE REMOVAL OVER 36 INCHES TO 48 INCHES DIAMETER BREAST HEIGHT - STUMPS CUT FLUSH	EA	5	
615.01010108	MATERIAL FOR STREAM BED ESTABLISHMENT	CY	55	
619.01	BASIC WORK ZONE TRAFFIC CONTROL	LS	1	
620.05	STONE FILLING (HEAVY)	CY	563	
620.0801	BEDDING MATERIAL, TYPE 1	CY	94	
623.12	CRUSHED STONE (IN-PLACE MEASURE)	CY	31	
625.110001	SURVEY GRADE GPS INSPECTION UNIT	EA	1	
637.11----12	ENGINEER'S FIELD OFFICE - TYPE 1	MNTH	8	
645.5101	GROUND-MOUNTED SIGN PANELS WITHOUT Z-BARS	SF	5	
645.81	TYPE A SIGN POSTS	EA	2	
697.03	FIELD CHANGE PAYMENT	DC	49900	
698.05	FUEL PRICE ADJUSTMENT	DC	1000	
699.040001	MOBILIZATION	LS	1	

INDEX		TOTAL NUMBER OF SHEETS: 34
SHEET NUMBER	DESCRIPTION	DRAWING NUMBER
1	COVER	COV
2	INDEX, ABBREVIATIONS, AND ESTIMATE OF QUANTITIES	IND-1
3	LEGEND	L-1
4 - 5	GENERAL NOTES	GN-1 TO GN-2
6	TYPICAL SECTIONS	TYP-1
7 - 9	WORK ZONE TRAFFIC CONTROL PLANS	WZTC-1 TO WZTC-3
10	HORIZONTAL AND VERTICAL CONTROL	HVC-1
11 - 12	MISCELLANEOUS DETAILS	MD-1 TO MD-2
13	MISCELLANEOUS TABLES	MT-1
14	EXISTING CONDITIONS	EX-1
15 - 23	GENERAL PLANS	GP-1 TO GP-9
24	CULVERT PLAN	PL-1
25	PROFILE	PR-1
26	EARTHWORK SUMMARY	ES-1
27	CULVERT, GENERAL PLAN AND SECTION	ST-1
28	LONGITUDINAL CULVERT ELEVATION	ST-2
29	BORING LOGS (1 OF 2)	ST-3
30	BORING LOGS (2 OF 2)	ST-4
31	EXCAVATION AND EMBANKMENT PLAN	ST-5
32	EXCAVATION AND EMBANKMENT SECTIONS	ST-6
33	CLOSURE POUR AND MISCELLANEOUS DETAILS	ST-7
34	WINGWALL AND HEADWALL DETAILS	ST-8

STANDARD SYMBOL (PLANS)	ITEM PAYMENT UNIT: ESTIMATE OF QUANTITIES SHEET	EQUIVALENT NOMENCLATURE: (SPECS/PROPOSAL)
	LF	LINEAR FEET
SF	SF	SQUARE FEET
YD	CY	CUBIC YARD
m	MI	MILES
AC	AC	ACRES
#	LB	POUND
TON	TON	TON
GAL	GAL	GALLON

THE LEGEND ILLUSTRATES MAPPING FEATURES (EXISTING AND PROPOSED).
FEATURES ARE SHOWN AS EITHER LINEAR (ROADWAY GUIDERAIL, ROADWAY SIDEWALK, UTILITY LINES, ETC.) OR POINT (SIGN, UTILITY POLE, ETC.).
FEATURES SHOWN ON THE LEGEND AS EXISTING FEATURES ALSO HAVE CORRESPONDING PROPOSED FEATURES.
PROPOSED FEATURE SYMBOLOGY IS IDENTICAL TO EXISTING FEATURE SYMBOLOGY EXCLUDING LINE WEIGHT. LINE WEIGHT FOR PROPOSED FEATURES IS THICKER (0.015 in ON B SIZE DRAWINGS).
MAPPING FEATURES NOT INCLUDED ON THE LEGEND SHEET DO NOT HAVE A UNIQUE SYMBOLOGY (SUCH AS THE PAVEMENT EDGE, PAVEMENT EDGE OF TRAVEL WAY) AND SHOULD BE LABELED ON THE PLANS.
FEATURES SHOWN AT THE HEAVIER WEIGHT ARE PROPOSED ONLY AND DO NOT HAVE CORRESPONDING EXISTING FEATURES.

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE. THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.	REVISIONS				 NEW YORK STATE OF OPPORTUNITY.  Canal Corporation	TITLE OF PROJECT THOMAS ROAD CULVERT REPLACEMENT		CONTRACT NUMBER: K24-10359171-NF
	DATE	DESCRIPTION	BY	SYM.		LOCATION OF PROJECT OLD ERIE CANAL TOWN OF WHITESTOWN, ONEIDA COUNTY	DATE: 09/24/2024	
							DRAWING NUMBER: IND-1	

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FILE NAME : V:\Projects\NY\K5\073183.000\091.Design\Drawings\Hwy\Package 3 - Culvert Replacement near Thomas Road\073183.cph leg.01.thomas.culvert.dgn
DATE / TIME : 03-OCT-2024
USER : 7558
DESIGN SUPERVISOR: LMM

CHECKED BY: LMM

DRAFTED BY: JLC

CHECKED BY:

DESIGNED BY: JLC

DESIGN SUPERVISOR: LMM

ALIGNMENT			ALIGNMENT			DRAINAGE			SIGNS			UTILITIES			
STYLE	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION	+	DINV	INVERT		S	SINGLE POST	CELL	NAME	DESCRIPTION	
	AC	CONTROL (CENTERLINE)		ACC	CENTER OF CURVATURE		DS	STRUCTURE, RECTANGULAR		S P	SINGLE POST, PROPOSED		UEPT	ELECTRIC, POLE, TRANS.	
	BR	RAIL	+	ACOG0	COGO	+	DSI	STRUCTURE, INVERT		SB P	BACK TO BACK, PROPOSED		UGLM	GAS, LINE MARKER	
	CB	BASELINE		ACS	CURVE TO SPIRAL		DSM	STRUCTURE, MANHOLE		SDEL	DELINEATORS		UGP	GAS/FUEL PUMP	
	DCP	CULVERT PIPE		ADPL.P	DETOUR, POINT OF INTERSECT.		DSMTXX.P	STRUCTURE, MANHOLE, TYPE "XX" "XX" = 48, 60, 72, 96	TRAFFIC				UGVT	GAS, VENT	
	DCP.P	CULVERT PIPE (DIR)		ADPL.P	DETOUR, POINT ON LINE		DSR	STRUCTURE, ROUND					ULPM	LIGHTING, POLE, MEDIAN	
	DFL.P	FLOW LINE		AEQN	EQUATION		DSR	STRUCTURE, ROUND					ULPP	LIGHTING, POLE, PED.	
	EFNS	FENCE, SILT		AEQNAHD	EQUATION AHEAD		DSR	STRUCTURE, ROUND					UMFC	MISC. FILLER CAP	
	LABL	AREA, BRUSH LINE		AEQNBK	EQUATION BACK		DST"X"CB P	STRUCTURE, RECT., WITH CURB TYPE "X" "X" = F, G, N, O, P, R		TCBJ	BOX, JUNCTION		UOLM	OIL, LINE MARKER	
	LAW	AREA, WATERS EDGE		AEVT	EVENT STATION		DST"X" P	STRUCTURE, RECT., TYPE "X" "X" = I, K, L, M, O, P, U		TCBP	BOX, PULL BOX		UP	POLE, WITH UTILITY	
	LCUT.P	CUT LIMIT		APC	POINT OF CURVATURE		GEOTECHNICAL				TCBS	BOX, SPLICE		UPD	POLE, DEAD (NO UTILITY)
	LFILL.P	FILL LIMIT		APCC	POINT OF COMPOUND CURVATURE		LANDSCAPE				TCMC	MICROCOMPUTER CABINET		UPL	POLE, WITH LIGHT
	LFNC	WOOD RAIL FENCE		API	POINT OF INTERSECTION						GDH	DRILL HOLE/ BORING		TCPP	PED POLE
	LSF	PLASTIC BARRIER FENCE		APOB	POINT OF BEGINNING		CELL			ROW MAPPING				UTLM	TELEPHONE, LINE MARKER
	MEE	EASEMENT, EXISTING		APOC	POINT OF CURVATURE					NAME	DESCRIPTION		NAME	DESCRIPTION	
	MHB	HIGHWAY BOUNDARY		APOE	POINT OF END		+	LELS	ELEVATION, SPOT		MEPAP.P	EASEMENT, PERM., APPROX.		UTVLM	CABLE TV, LINE MARKER
	RG	GUIDE RAIL, MISCELLANEOUS		APOL	POINT ON LINE			LFP	FLAG POLE		MEPP.P	EASEMENT, PERM., BACK LINE		UTVPB	CABLE TV, PULL BOX
	RGB	GUIDE RAIL, BOX BEAM		APOS	POINT ON SPIRAL			LMB	MAILBOX		MEPSP.P	EASEMENT, PERM., SHAPE		UUB	UNKNOWN, BOX
	RGC	GUIDE RAIL, CABLE		APOT	POINT ON TANGENT			LPB	PAPER BOX		MFAP.P	FEE ACQUISITION, APPROX.		UUJB	UNKNOWN, JUNCTION BOX
	RGW	GUIDE RAIL, W BEAM		APOV	POINT ON VERTICAL CURVE			LPB	PAPER BOX		MFP.P	FEE ACQUISITION, BACK LINE		UUMH	UNKNOWN, MANHOLE
	NYS CANAL RIGHT-OF-WAY			APOV	POINT ON VERTICAL TANGENT			LPST	POST, SINGLE		MFSP.P	FEE ACQUISITION, SHAPE		UUPB	UNKNOWN, PULL BOX
ENVIRONMENTAL				APORC	POINT ON REVERSE CURVE			LRB	ROCK, BOULDER		MHBAP	HIGHWAY BNDRY., APPROX.		UUVL	UNKNOWN, VALVE
				APT	POINT OF TANGENCY			LSHC	SHRUB, CONIFEROUS		MHBCP	HISTORICAL, BLDG. CORNERS		UUVT	UNKNOWN, VENT
	EBLHS	BALE, STRAW		APVC	POINT OF VERTICAL CURVATURE			LSHD	SHRUB, DECIDUOUS		MHBP	HIGHWAY BNDRY, PT.		UUW	UNKNOWN, WELL
	ECT	CURTAIN, TURBIDITY		APVCC	POINT OF VERT. CMPND CURVE			LTC	TREE, CONIFEROUS	ROW ACQUISITION				UWFH	WATER, FIRE HYDRANT
	EDMC	DAM, COFFER		APVI	POINT OF VERT. INTERSECTION			LTD	TREE, DECIDUOUS					UWM	WATER, METER
	EDMEC.P	DAM, EARTHEN CHECK		APVRC	POINT OF VERT. REVERSE CURVE			LTS	TREE, STUMP					UWMH	WATER, MANHOLE
	EDMGSC.P	DAM, GRAVEL BAG/SAND BAG CHECK		APVT	POINT OF VERTICAL TANGENCY			LTW P	TREE, WELL OR WALL					UWV	WATER, VALVE
	EDMPC.P	DAM, PREFABRICATED CHECK	CONTROL				+	LUKP	UNKNOWN POINT		UWW	WATER, WELL			
	EDMSC.P	DAM, STONE CHECK		CBP	BASELINE, POINT	ROADWAY			FEE WO/A						
	EFNS	FENCE, SILT		CBPOL	BASELINE, POINT ON LINE	CELL	NAME	DESCRIPTION							
	EFNSV	FENCE, SILT & VEGETATION		CBSP	BASELINE, SPUR POINT		RES P	ELEVATION, SPOT							
	EFNV	FENCE, VEGETATION		CBTP	BASELINE, TIE POINT		RGA	GUIDE RAIL, ANCHOR							
	EWAA.P	WETLAND, ADJACENT AREA		CPBM	BENCHMARK		RGP	GUIDE POST, SINGLE							
	EWf	WETLAND, FEDERAL		CPH	POINT, HORIZ. PHOTOGRAMMETRY										
	EWFS	WETLAND, FEDERAL AND STATE		CPSM	POINT, SURVEY MARKER, PERM.										
	EWM	WETLAND, MITIGATION AREA		CPSV	POINT, VERT., PHOTOGRAMMETRY										
	EWS	WETLAND, STATE													

NOTES:
1. THE LEGEND ILLUSTRATES MAPPING FEATURES (EXISTING OR PROPOSED) FOR ROADWAY, SIDEWALK, UTILITY LINES, ETC.) OR POINT (SIGN, UTILITY, ETC.) FEATURES.
2. FEATURES ARE SHOWN AS EITHER LINEAR (ROADWAY, SIDEWALK, UTILITY LINES, ETC.) OR POINT (SIGN, UTILITY, ETC.) FEATURES.
3. FEATURES SHOWN ON THE LEGEND AS EXISTING FEATURES ARE SHOWN AS EXISTING FEATURES. FEATURES SHOWN AS PROPOSED ARE SHOWN AS PROPOSED FEATURES.

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DESIGN SUPERVISOR:

CHECKED BY:

DRAFTED BY:

CHECKED BY:

DESIGNED BY:

DESIGN SUPERVISOR:

GENERAL NOTES:

- MATERIAL AND CONSTRUCTION SPECIFICATIONS: NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS (U.S. CUSTOMARY) DATED AS SHOWN ON THE FRONT COVER OF THE PROPOSAL, EXCEPT AS MODIFIED IN THESE PLANS AND THE PROPOSAL.
- UNLESS NOTED OTHERWISE, PAVEMENT AND UNPAVED TRAIL SURFACES DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED "IN-KIND", A.O.B.E., SEE TRAIL REPAIR DETAIL ON DWG. TYP-1.
- CARE SHALL BE TAKEN TO RETAIN NATURAL GROWTH AND PREVENT DAMAGE TO TREES WITHIN AND OUTSIDE THE LIMITS OF CONSTRUCTION THAT IS NOT SCHEDULED FOR REMOVAL. ANY DAMAGE CAUSED TO THIS NATURAL GROWTH SHALL BE RESTORED AT THE EXPENSE OF THE CONTRACTOR AS DIRECTED BY THE ENGINEER.
- ALL ELEVATIONS SHOWN ARE BASED ON NAVD 88.
- EXISTING NEARBY STREETS DISTURBED BY THE CONTRACTOR'S OPERATIONS UNDER THIS CONTRACT SHALL BE RESTORED TO AN ACCEPTABLE CONDITION, AS SPECIFIED BY, AND SATISFACTORY TO THE ENGINEER AT NO ADDITIONAL COST.
- THE CONTRACTOR SHALL PROVIDE ONE TYPE 1 ENGINEER'S OFFICE FOR THE DURATION OF THIS CONTRACT. IT SHALL BE PLACED IN A LOCATION APPROVED BY THE ENGINEER AND PAID FOR UNDER ITEM 637.11 ----12.
- ANY ROADWAYS, TRAIL, OR PAVED AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED "IN-KIND", A.O.B.E. AT NO COST TO THE NYSCC.
- THE CONTRACTOR SHALL PREPARE AND SUBMIT A SITE-SPECIFIC HEALTH AND SAFETY PLAN (HASP) TO THE ENGINEER FOR REVIEW. CONTRACTOR SHALL MAINTAIN PLAN ON-SITE FOR ENGINEER AND WORKERS REFERENCE. PLAN SHALL BE UPDATED FOR NEW AND CHANGING CONDITIONS AS THEY ARE RECOGNIZED. THE HASP SHALL ADDRESS THAT CONTAMINATED SOIL MAY BE ENCOUNTERED AS PART OF THE TASK-HAZARD-CONTROL BREAKDOWN. SOIL TESTING HAS BEEN PERFORMED - RESULTS HAVE BEEN PROVIDED AS SUPPLEMENTAL INFORMATION.
- WORK THAT VIOLATES EITHER LOCAL GOVERNMENT, COUNTY GOVERNMENT, OR CANAL CORPORATION WORK RESTRICTIONS WILL NOT BE ALLOWED. PERMISSIBLE WORK HOURS AND NOISE LIMITS SHALL COMPLY WITH ALL APPLICABLE LOCAL REGULATIONS AND ORDINANCES.

EARTHWORK NOTES:

- THE CONTRACTOR SHALL PERFORM ALL WORK WITH CARE SO THAT ANY MATERIALS THAT ARE TO REMAIN IN PLACE, OR WHICH ARE TO REMAIN THE PROPERTY OF THE NYSCC, WILL NOT BE DAMAGED. IF THE CONTRACTOR DAMAGES ANY SUCH MATERIAL, THE DAMAGED MATERIALS SHALL BE REPAIRED OR REPLACED IN A MANNER SATISFACTORY TO THE ENGINEER WITHOUT COST TO THE NYSCC.
- NO SPOIL AREAS AVAILABLE ON NYSCC ROW - THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT THERE ARE NO SPOIL AREAS AVAILABLE FOR THIS CONTRACT WITHIN THE CANAL CORPORATION'S RIGHT-OF-WAY. THEREFORE, ALL SURPLUS MATERIAL GENERATED UNDER THIS CONTRACT MUST BE REMOVED BY THE CONTRACTOR AND PROPERLY DISPOSED OF OFF-SITE AT A 6 NYCRR PART 360 (PART 360) REGISTERED OR PERMITTED CONSTRUCTION AND DEMOLITION (C&D) RECYCLING FACILITY OR PART 360 PERMITTED LANDFILL. DISPOSAL OF MATERIAL ON THIRD PARTY PROPERTY OTHER THAN A PART 360 DISPOSAL FACILITY IS NOT PERMITTED UNDER THIS CONTRACT.

THE CONTRACTOR SHALL SUBMIT A DISPOSAL PLAN TO THE PROJECT ENGINEER FOR REVIEW AND APPROVAL BY THE NYSCC ENVIRONMENTAL ENGINEER, PRIOR TO THE TRANSPORTATION AND DISPOSAL OF THE MATERIAL. THE DISPOSAL PLAN SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:

- NAME OF PART 360 DISPOSAL FACILITY, ADDRESS, TELEPHONE NUMBER AND CONTACT PERSON;
- COPY OF APPLICABLE PART 360 PERMITS, REGISTRATIONS AND/OR LICENSES HELD BY THE DISPOSAL FACILITY;
- SIGNED LETTER FROM THE DISPOSAL FACILITY STATING IT IS AUTHORIZED UNDER LAW TO ACCEPT THE TYPE OF WASTE BEING GENERATED, THEIR INTENT TO ACCEPT THE MATERIAL GENERATED BY THIS CONTRACT, AND A LIST OF THE LABORATORY TESTS REQUIRED BY THE FACILITY. THE CONTRACTOR SHALL PERFORM ANY SAMPLING AND ANALYSIS AS REQUIRED BY THE DISPOSAL FACILITY AT NO ADDITIONAL COST TO THE NYSCC; AND
- NAME OF WASTE TRANSPORTER, ADDRESS, TELEPHONE NUMBER AND CONTRACT PERSON AND ALL COPIES OF ALL WASTE TRANSPORTER PERMITS AND/OR LICENSE PLATE NUMBERS FOR VEHICLES THAT WILL BE USED FOR TRANSPORT OF MATERIAL FROM THE SITE TO THE INTENDED DISPOSAL FACILITY.
- AN EXAMPLE OF THE WASTE MANIFEST TRACKING FORM THAT WILL BE PROVIDED BY THE WASTE TRANSPORTER.

COMMINGLING OF SPOILS/MATERIAL GENERATED FROM NYSCC PROJECTS AND THIRD PARTY SOURCES SHALL NOT OCCUR EXCEPT AS ALLOWED AT A PART 360 DISPOSAL FACILITY. A COPY OF NYPA'S SPOIL DISPOSAL PROCEDURE ENV-PD-53-09 CAN BE PROVIDED UPON REQUEST. DISPOSAL OF THE MATERIAL SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

ALL COSTS ASSOCIATED WITH THE REMOVAL AND DISPOSAL OF SPOIL MATERIAL SHALL BE INCLUDED IN THIS BID AMOUNT OF THE APPROPRIATE EXCAVATION AND DISPOSAL ITEMS.

- SOIL TESTING FOR IMPORTED BACKFILL - TESTING WILL BE REQUIRED FOR ALL IMPORTED BACKFILL MATERIAL BEING UTILIZED AT A NYSCC PROJECT REGARDLESS OF RIGHT OF WAY OWNERSHIP ACCORDING TO 6 NYCRR PART 375, ENVIRONMENTAL REMEDIATION PROGRAMS, PRIOR TO THE MATERIAL BEING BROUGHT ON-SITE. IMPORTED MATERIAL SHALL NOT CONTAIN FOREIGN MATERIALS OF ANY KIND.

THE SAMPLING AND TESTING WILL BE PERFORMED AT THE DIRECTION OF THE NYSCC CANAL PROJECT ENGINEER (ENGINEER) AND THE ANALYTICAL TESTING RESULTS WILL BE PROVIDED TO THE NYSCC ENVIRONMENTAL REPRESENTATIVE FOR REVIEW AND APPROVAL FOR ALL PROPOSED IMPORTED BACKFILL MATERIAL TO VERIFY IT IS ENVIRONMENTALLY CLEAN FILL. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH THE SOURCE OF THE MATERIAL AT LEAST FOURTEEN (14) WORKING DAYS IN ADVANCE OF IMPORTING MATERIAL TO THE SITE. THE ENGINEER WILL DIRECT THE COLLECTION AND ANALYSIS OF SAMPLES AT THE FREQUENCY SPECIFIED BELOW FOR EACH TYPE AND SOURCE OF IMPORTED BACKFILL UTILIZED AT A NYSCC PROJECT:

REQUIRED NUMBER OF SOIL SAMPLES FOR SOIL UTILIZED AT A NYSCC PROJECT			
CONTAINMENT	VOCS	SVOCs, INORGANIC PCBS/PESTICIDES	
SOIL QUANTITY (CY)	DISCRETE SAMPLES	COMPOSITE	DISCRETE SAMPLES/COMPOSITE
0 - 100	1	1	3 - 5 DISCRETE SAMPLES FROM DIFFERENT LOCATIONS ON THE FILL BEING PROVIDED WILL COMPRISE A COMPOSITE SAMPLE FOR ANALYSIS
100 - 500	3	2	
EVERY 1,000 CUBIC YARDS AFTER	ADD AN ADDITIONAL 2 DISCRETE AND 1 COMPOSITE FOR EACH ADDITIONAL 1,000 CUBIC YARDS		

SAMPLE ANALYSIS WILL INCLUDE THE COMPLETE LIST OF 6 NYCRR PART 375 PARAMETERS AND IMPORTED BACKFILL MATERIAL MUST MEET 6 NYCRR PART 375-6.8(b) RESTRICTED RESIDENTIAL USE SOIL CLEANUP OBJECTIVES AS REFERENCED ON THIS SHEET.

ANALYTICAL TESTING WILL BE PERFORMED BY NEW YORK STATE DEPARTMENT OF HEALTH ENVIRONMENTAL LABORATORY APPROVAL PROGRAM (ELAP) CERTIFIED LABORATORY.

FOR STONE, GRAVEL, AND ROCK, THE CONTRACTOR SHALL PROVIDE CERTIFICATION TO THE ENGINEER THAT THE SOURCE OF STONE CONSIST OF PROCESSED VIRGIN MATERIAL FROM A PERMITTED QUARRY OR MINE. STONE, GRAVEL AND ROCK FROM AN APPROVED SOURCE MAY BE IMPORTED WITHOUT CHEMICAL TESTING PROVIDED THAT IT CONTAINS LESS THAN 10% BY WEIGHT MATERIAL WHICH WOULD PASS THROUGH A SIZE 200 SIEVE.

IF "QUESTIONABLE" IN-SITU SOILS ARE ENCOUNTERED DURING WORK OPERATIONS, THE CONTRACTOR SHALL STOP WORK AT THIS LOCATION AND IMMEDIATELY NOTIFY THE ENGINEER. UPON NOTIFICATION, THE ENGINEER SHALL IMMEDIATELY INFORM THE NYPA MANAGER OF ENVIRONMENTAL OPERATIONS OF THE ISSUE FOR GUIDANCE. TESTING OF SUCH IN-SITU MATERIAL MAY BE REQUIRED BY THE NYSCC, AS ORDERED BY THE ENGINEER.

THE COST OF ALL SAMPLING, TESTING AND/OR ANALYSIS REQUIRED UNDER THIS NOTE SHALL BE BORNE BY THE NYSCC THROUGH THE CONSTRUCTION INSPECTION CONTRACT.

- SEDIMENT REMOVAL - THE CONTRACTOR IS ADVISED THAT SEDIMENT IS REGULATED AS SOLID WASTE AND IS SUBJECT TO 6 NYCRR PART 360 REGULATIONS. ALL EXCAVATED MATERIAL BELOW THE ORDINARY HIGH WATER MARK (OHWM) AS SHOWN ON THE PLANS SHALL BE CONSIDERED SEDIMENT UNDER THIS CONTRACT AND SHALL BE PROPERLY HANDLED AND DISPOSED OF IN A 6 NYCRR PART 360 (PART 360) PERMITTED DISPOSAL FACILITY. THE COST OF REMOVING AND DISPOSING OF THE EXISTING SEDIMENT SHALL BE PAID FOR UNDER ITEM 203.020000012.

UTILITY NOTES:

- THE CONTRACTOR SHALL CONTACT UDIG NY IN ADVANCE OF ANY DIGGING TO AVOID INTERRUPTION OF SERVICE PROVIDED BY UNDERGROUND UTILITIES. THE PHONE NUMBER IS 811. IN ADDITION, THE CONTRACTOR SHALL CALL THE NYSCC SECTION SUPERVISOR PRIOR TO DIGGING.
- SHOULD UTILITIES BE ENCOUNTERED DURING CONSTRUCTION WHICH INTERFERE WITH THE WORK AND FOR WHICH PROVISIONS ARE NOT PROVIDED ON THE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF THEIR EXISTENCE AND EXTENT OF CONFLICT WITH THE WORK. THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE OWNING AGENCY TO MODIFY ITS FACILITY IN ORDER TO ALLOW THE WORK TO PROGRESS.
- LOCATION OF UTILITIES, PUBLIC AND/OR PRIVATE, SHALL BE DETERMINED BY THE CONTRACTOR UTILIZING UDIG NY - UNDERGROUND FACILITIES PROTECTION ORGANIZATION (UFPD). CALL 811. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONDUCT THE CONTRACTOR'S OPERATIONS, AND TAKE THE NECESSARY PRECAUTIONS TO PREVENT INTERFERENCE WITH, OR DAMAGE TO THESE OR OTHER FACILITIES DURING THE COURSE OF OPERATIONS.

RESTRICTED RESIDENTIAL USE SOIL CLEANUP OBJECTIVES:

CONTAINMENT	RESTRICTED RESIDENTIAL SCOs (PARTS PER MILLION)	CONTAINMENT	RESTRICTED RESIDENTIAL SCOs (PARTS PER MILLION)
METALS		PCB's	
ARSENIC	16	2,4,5-TP ACID (SILVEX)	100
BARIUM	400	4,4'-DDE	8.9
BERYLLIUM	72	4,4'-DDT	7.9
CADMIUM	4.3	4,4'-DDD	13
CHROMIUM, HEXAVALENT	110	ALDRIN	0.097
CHROMIUM, TRIVALENT	180	ALPHA-BHC	0.48
COPPER	270	BETA-BHC	0.36
TOTAL CYANIDE	27	CHLORDANE (ALPHA)	4.2
LEAD	400	DELTA-BHC	100
MANGANESE	2,000	DIBENZOFURAN	59
TOTAL MERCURY	0.81	DIELDRIN	0.2
NICKEL	310	ENDOSULFAN I	24
SELENIUM	180	ENDOSULFAN II	24
SILVER	180	ENDOSULFAN SULFATE	24
ZINC	10,000	ENDRIN	11
		HEPTACHLOR	2.1
		LINDANE	1.3
		POLYCHLORINATED BIPHENYLS	1
SEMIVOLATILES		VOLATILES	
ACENAPHTHENE	100	1,1-TRICHLOROETHANE	100
ACENAPHTHENE	100	1,1-DICHLOROETHANE	26
ANTHRACENE	100	1,1-DICHLOROETHENE	100
BENZ(A)ANTHRACENE	1	1,2-DICHLOROBENZENE	100
BENZO(A)PYRENE	1	1,2-DICHLOROTHANE	3.1
BENZO(B)FLUORANTHENE	1	CIS-1,2-DICHLOROETHENE	100
BENZO(G,H,I)PERYLENE	100	TANS-1,2-DICHLOROETHENE	100
BENZOK(FLUORANTHENE)	3.9	1,3-DICHLOROBENZENE	49
CHRYSENE	3.9	1,4-DICHLOROBENZENE	13
DIBENZ(A,H)ANTHRACENE	0.33	1,4-DIOXANE	13
FLUORANTHENE	100	ACETONE	100
FLUORENE	100	BENZENE	4.8
INDENO(1,2,3-CD)PYRENE	0.5	BUTYLBENZENE	100
M-CRESOL	100	CARBON TETRACHLORIDE	2.4
NAPHTHALENE	100	CHLOROFORM	100
O-CRESOL	100	ETHYLBENZENE	49
P-CRESOL	100	HEXACHLOROBENZENE	41
PENTACHLOROPHENOL	6.7	METHYL ETHYL KETONE	1.2
PHENANTHRENE	100	METHYL TERT-BUTYL ETHER	100
PHENOL	100	METHYLENE CHLORIDE	100
PYRENE	100	N-PROPYLBENZENE	100
		SEC-BUTYLBENZENE	100
		TERT-BUTYLBENZENE	100
		TETRACHLOROETHENE	19
		TOLUENE	100
		TRICHLOROETHENE	21
		1,2,4-TRIMETHYLBENZENE	52
		1,3,5-TRIMETHYLBENZENE	52
		VINYL CHLORIDE	0.9
		XYLENE (MIXED)	100

STAGING AND ACCESS NOTES:

- THE CONTRACTOR SHALL SUBMIT A STAGING, PHASING, AND CONSTRUCTION ACCESS PLAN FOR APPROVAL BY THE ENGINEER.
- THE CONTRACTOR SHALL ADHERE TO THE NYSCC SPECIAL NOTE, ENTITLED "REQUIREMENTS FOR CONTRACTOR'S UTILIZATION OF AREAS OUTSIDE OF THE RIGHT-OF-WAY" IN REGARDS TO ENCROACHMENTS ON PRIVATE LANDS.
- ALL EQUIPMENT, STOCKPILES AND CONSTRUCTION MATERIAL LOCATIONS SHALL BE APPROVED BY THE ENGINEER.

CONSTRUCTION ENTRANCE NOTES:

- STABILIZED CONSTRUCTION ENTRANCES SHALL BE ESTABLISHED PRIOR TO OTHER SITE CONSTRUCTION ACTIVITIES TO PREVENT THE TRACKING, SPILLING, AND DROPPING OF SEDIMENTS OUTSIDE OF THE WORK AREA BY CONSTRUCTION VEHICLES. IF WASHING IS PERFORMED, THE WASHING AREA SHALL BE LOCATED IN AN AREA WHICH WILL DRAIN INTO AN APPROVED SEDIMENT CONTROL MEASURE. THE COST OF INSTALLATION, MATERIALS, MAINTENANCE, AND STABILIZATION OF AREAS USED FOR WASHING SHALL BE INCLUDED IN THE PRICE BID FOR THE CONSTRUCTION ENTRANCE (ITEM 209.22).
- CONTRACTOR SHALL FOLLOW NYSDOT STANDARDS AND DETAILS FOR CONSTRUCTION ENTRANCES, AND SHALL SUBMIT A STAGING PLAN TO THE ENGINEER FOR APPROVAL.
- CONTRACTOR SHALL PROVIDE PERIODIC INSPECTION AND NEEDED MAINTENANCE AFTER EACH RAIN.
- THE PROFILE OF THE ACCESS ROAD SHALL MATCH THAT OF THE EXISTING GROUND.
- DETAILS AND REQUIREMENTS OF CONSTRUCTION ENTRANCE ARE DETAILED ON NYSDOT STANDARD SHEET 209-05. DIMENSIONS AND SHAPE OF THE CONSTRUCTION ENTRANCE SHALL BE MODIFIED FROM THE STANDARD SHEET, AS NEEDED, TO PERFORM THE INTENDED FUNCTION OF REDUCING THE TRACKING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY.
- UPON COMPLETION OF WORK CONTRACTOR SHALL REMOVE CONSTRUCTION ENTRANCE AND RESTORE SITE TO ORIGINAL CONDITION.

AFFIXED ON:
9/24/2024

SIGNATURE:
STAMP:

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE. THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REVISIONS			
DATE	DESCRIPTION	BY	SYM.

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TITLE OF PROJECT
THOMAS ROAD CULVERT REPLACEMENT

LOCATION OF PROJECT
OLD ERIE CANAL
TOWN OF WHITESTOWN, ONEIDA COUNTY

TITLE OF DRAWING
GENERAL NOTES

CONTRACT NUMBER:
K24-10359171-NF

DATE:
09/24/2024

DRAWING NUMBER:
GN-1

FILE NAME : V:\Projects\NY\K6\073183\000\091.Design\Drawings\Hwy\Package 3 - Culvert Replacement near Thomas Road\073183.cph.gn02.thomas.culvert.dgn
DATE/TIME : 03-OCT-2024
USER :
DESIGN SUPERVISOR:

CHECKED BY:

DRAFTED BY:

CHECKED BY:

DESIGNED BY:

DESIGN SUPERVISOR:

EROSION AND SEDIMENT CONTROL NOTES:

- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MUST BE IMPLEMENTED, INSPECTED, MONITORED, AND MAINTAINED AS SPECIFIED IN THE NYSDOT SPECIFICATIONS, THE PROJECT STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND IN ACCORDANCE WITH THE SPDES GENERAL PERMIT FOR CONSTRUCTION ACTIVITY GP-0-20-001 (GENERAL PERMIT). WHERE THERE ARE INCONSISTENCIES BETWEEN THE REQUIREMENTS OF THE SPECIFICATIONS, THE GENERAL PERMIT, AND THE SWPPP, THE MORE STRINGENT REQUIREMENTS SHALL BE FOLLOWED.
- IN ACCORDANCE WITH SECTIONS 107-12 AND 209 OF THE NYSDOT STANDARD SPECIFICATIONS, THE CONTRACTOR SHALL DESIGNATE AN "EROSION AND SEDIMENT CONTROL SUPERVISOR" FOR THE PROJECT. THE SUPERVISOR SHALL BE RESPONSIBLE FOR IMPLEMENTING THE EROSION AND SEDIMENT CONTROL PLAN AND FOR INSPECTING AND MAINTAINING THE CONTROL MEASURES. THE NAME AND QUALIFICATIONS (TRAINING AND EXPERIENCE INCLUDING NYSDEC 4 HOURS TRAINING CERTIFICATE) OF THIS INDIVIDUAL SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO STARTING EARTHWORK.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ADEQUATE EROSION AND SEDIMENT CONTROL FOR THE SITE. MODIFICATIONS TO AND/OR ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED DEPENDING ON THE ACTUAL SITE CONDITIONS AND WORK PERFORMED. THE CONTRACTOR SHALL MODIFY THE CONTROLS AS NECESSARY TO ACCOMMODATE THEIR OPERATIONS AND OBTAIN APPROVAL BY THE ENGINEER PRIOR TO IMPLEMENTING ANY CHANGES.
- THE CONTRACTOR SHALL MODIFY THE EROSION AND SEDIMENT CONTROLS AS NECESSARY TO ACCOMMODATE THEIR OPERATIONS AND OBTAIN APPROVAL BY THE ENGINEER PRIOR TO IMPLEMENTING ANY CHANGES. THE DESIGNATED "EROSION AND SEDIMENT CONTROL SUPERVISOR" SHALL NOTIFY THE ENGINEER IN ADVANCE OF ANY FIELD CHANGES TO THE EROSION AND SEDIMENT CONTROL MEASURES INDICATED ON THE CONTRACT DOCUMENTS. THE ENGINEER MAY REQUIRE THE CONTRACTOR TO SUBMIT A MODIFIED EROSION AND SEDIMENT CONTROL PLAN FOR APPROVAL PRIOR TO IMPLEMENTING FIELD CHANGES.
- THE CONTRACTOR SHALL SUBMIT FOR APPROVAL TO THE ENGINEER A WRITTEN SCHEDULE AND PROPOSED MEASURES FOR TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL WORK AND SCHEDULE OF OPERATIONS AS REQUIRED BY SECTION 209 OF THE NYSDOT STANDARD SPECIFICATIONS. THE COST OF INSTALLING, MAINTAINING, CLEANING AND REMOVING TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL DEVICES SHALL BE PAID FOR UNDER THE EROSION AND CONTROL RELATED ITEMS INCLUDED IN THE CONTRACT.
- INSPECTION, PERIODIC CLEANING, AND MAINTENANCE OF TEMPORARY EROSION CONTROL MEASURES SHALL BE PERFORMED ON A SCHEDULED BASIS IN ACCORDANCE WITH SECTION 209 OF THE NYSDOT STANDARD SPECIFICATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHMENT OF STAGING AND ACCESS AREAS AS NECESSARY TO PERFORM THE WORK, WITH THE APPROVAL OF THE ENGINEER. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DEPENDING ON THE LOCATIONS IDENTIFIED, INCLUDING CONSTRUCTION ENTRANCES, SILT FENCE, SEEDING AND MULCHING, ETC.
- INSTALL TEMPORARY CRUSHED STONE, STABILIZED CONSTRUCTION ENTRANCE WHEREVER A CONSTRUCTION ACCESS INTERSECTS AND PAVED SURFACE. ENTRANCE SHALL BE CLEAN, CRUSHED STONE, 6-INCH THICK, AND SHALL BE AT LEAST 12 FEET WIDE BY 50 FEET LONG. IF IT IS NOT PRACTICAL TO INSTALL A STABILIZED CONSTRUCTION ENTRANCE, AN ALTERNATE METHOD TO PREVENT SOIL AND SEDIMENT FROM BEING TRACKED OFF THE PROJECT SITE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
- THE CONTRACTOR IS RESPONSIBLE FOR THE CLEARING OF ANY SEDIMENT TRACKED ON TO PUBLIC ROADWAYS, OTHER PAVED AREAS, AND UNPAVED TRAIL AREAS. WASHING OF THE SEDIMENT INTO ADJACENT WATERWAYS, DRAINAGE SWALES, OR WETLANDS IS NOT PERMITTED.
- DUMP TRUCKS HAULING MATERIAL TO AND FROM THE CONSTRUCTION SITE SHALL BE COVERED WITH A TARPULIN.
- THE CONTRACTOR IS RESPONSIBLE FOR THE CLEARING OF ANY SEDIMENT TRACKED ON TO PUBLIC ROADWAYS, OTHER PAVED AREAS, AND UNPAVED TRAIL AREAS. WASHING OF THE SEDIMENT INTO ADJACENT WATERWAYS, DRAINAGE SWALES, OR WETLANDS IS NOT PERMITTED.
- THE CONTRACTOR SHALL COVER TEMPORARY STOCKPILES OF ERODIBLE MATERIAL (SUCH AS TOPSOIL OR EARTH FILL) WITH POLY SHEETING, OR RING THE STOCKPILES WITH SILT FENCE TO CONTROL EROSION. POLY SHEETING SHALL COMPLETELY COVER THE STOCKPILE AND BE SECURELY ANCHORED AT ALL TIMES. ANY POLY SHEETING OR SILT FENCE THAT IS DAMAGED SHALL BE PROMPTLY REPAIRED OR REPLACED AS DIRECTED BY THE ENGINEER. RINGED STOCKPILES EXPOSED OR EXPECTED TO BE EXPOSED FOR LONGER THAN 14 CALENDAR DAYS SHALL IMMEDIATELY BE STABILIZED WITH APPROPRIATE MEASURES.
- EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE FOR WHICH THEY ARE INTENDED AND SHALL REMAIN IN PLACE UNTIL SOILS ARE PERMANENTLY STABILIZED.
- THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORM WATER RUNOFF FROM DISTURBED AREAS IS DIVERTED TO APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL DEVICES BEFORE ENTERING A WATER BODY OR WETLAND.
- INSTALL TEMPORARY SILT FENCE AS DETAILED ON THE CONSTRUCTION DRAWINGS. SILT FENCE SHALL BE INSTALLED ALONG THE SAME CONTOUR LINE AND LENGTH.

- CLEARING AND GRUBBING AND TREE REMOVALS SHALL BE LIMITED TO NO MORE THAN THOSE INDICATED ON THE PLANS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- GROUND PROTECTION MATS SHALL BE REQUIRED FOR ANY EQUIPMENT ACCESS TO WETLAND AREAS NOT PERMANENTLY IMPACTED BY THE PROPOSED WORK. ALL WETLAND AREAS TEMPORARILY DISTURBED BY GROUND PROTECTION MATS SHALL BE RESTORED TO ORIGINAL CONDITION OR AS DIRECTED BY ENGINEER.
- THE CONTRACTOR SHALL INSTALL TEMPORARY STABLE HAUL PATHS WHERE INDICATED ON THE PLANS FOR INGRESS/EGRESS TO AREAS OF PROPOSED WORK. TEMPORARY HAUL PATHS MUST BE REMOVED AND REGRADED AND THE AREA STABILIZED AND RESTORED IMMEDIATELY AFTER PATH IS NO LONGER NEEDED.
- UNDER NO CONDITION SHALL DISCONTINUED CONSTRUCTION ACTIVITIES IN AREAS WITH SOIL DISTURBANCES BE LEFT FOR A PERIOD OF GREATER THAN 14 DAYS WITHOUT TEMPORARILY STABILIZING THOSE AREAS WITH TEMPORARY SEED AND MULCH, ITEM 209.1003. MULCH SHALL BE MAINTAINED UNTIL SUITABLE VEGETATIVE COVER IS ESTABLISHED.
- ALL DISTURBED AREAS WHICH ARE NOT SUBJECT TO FURTHER DISTURBANCE OR CONSTRUCTION TRAFFIC SHALL BE ESTABLISHED WITH PERMANENT VEGETATIVE COVER, AS PER CONTRACT SPECIFICATIONS, WITHIN 14 DAYS OF FINAL GRADING.
- WHEN THE PROJECT IS COMPLETED AND FULLY STABILIZED, REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES. ALL SEDIMENT REMOVED FROM EROSION CONTROL DEVICES SHALL BE DISPOSED OF ON AN APPROVED SITE WHERE IT CANNOT BE WASHED INTO ANY WATERS. DISPOSAL SITES WILL BE IDENTIFIED PRIOR TO SURFACE DISTURBANCE AND SHALL BE APPROVED BY THE ENGINEER.
- FINAL STABILIZATION MEANS THAT ALL SOIL DISTURBANCE ACTIVITIES HAVE CEASED AND A UNIFORM, PERENNIAL VEGETATIVE COVER WITH A DENSITY OF EIGHTY (80) PERCENT OVER THE ENTIRE PVIOUS SURFACE HAS BEEN ESTABLISHED, OR OTHER EQUIVALENT STABILIZATION MEASURES, SUCH AS PERMANENT LANDSCAPE MULCHES, ROCK RIP-RAP, OR WASHED/CRUSHED STONE HAVE BEEN APPLIED ON ALL DISTURBED AREAS THAT ARE NOT COVERED BY PERMANENT STRUCTURE, CONCRETE, OR PAVEMENT.
- OTHER EROSION CONTROL MEASURES MAY BE REQUIRED AOE IN ADDITION TO THE METHODS SHOWN ON THE PLANS.
- REFER TO NYSDOT STANDARD SHEETS 209-1 THRU 209-7 FOR SOIL EROSION AND SEDIMENT CONTROL DETAILS.

ENVIRONMENTAL PROTECTION NOTES:

- THE CONTRACTOR SHALL CONDUCT THEIR OPERATIONS TO THE SATISFACTION OF THE PROJECT ENGINEER TO PREVENT ANY DAMAGE TO ANY STREAM FROM POLLUTION BY DEBRIS, SEDIMENT, OR OTHER FOREIGN MATERIAL, OR FROM THE MANIPULATION OF EQUIPMENT AND/OR MATERIALS IN OR NEAR THE WATERWAYS. NO HEAVY EQUIPMENT IS ALLOWED IN ANY STREAM OR WATERWAY. THE CONTRACTOR SHALL NOT RETURN DIRECTLY TO A STREAM, OR TO A DITCH IMMEDIATELY FLOWING INTO A STREAM, ANY WATER WHICH HAS BEEN USED FOR WASH PURPOSES OR OTHER SIMILAR OPERATIONS WHICH COULD CAUSE THIS WATER TO BECOME POLLUTED WITH SAND, SILT, CEMENT, OIL, OR OTHER IMPURITIES.

IF THE CONTRACTOR USES WATER FROM A STREAM, AN INTAKE OR TEMPORARY DAM SHALL BE CONSTRUCTED TO PROTECT AND MAINTAIN WATER RIGHTS AND TO SUSTAIN FISH LIFE DOWNSTREAM. THE CONTRACTOR S OPERATIONS MUST BE CONDUCTED IN A MANNER THAT MAINTAINS DOWNSTREAM FLOW CONSISTENT WITH AMBIENT CONDITIONS. NO VISIBLE CONTRAST BETWEEN UPSTREAM AND DOWNSTREAM WATER QUALITY SHALL BE ALLOWED. THE NYSCE ENVIRONMENTAL ENGINEER MUST BE CONSULTED PRIOR TO ANY WATER WITHDRAWAL. ALL TEMPORARY MEASURES SHALL BE REMOVED AND THE AREA RESTORED AT THE COMPLETION OF THE WORK.
- VISIBLY TURBID DISCHARGES FROM DEWATERING OPERATIONS OR EXCAVATION ACTIVITIES SHALL NOT BE ALLOWED TO ENTER ANY WATERWAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEASURES NECESSARY TO ELIMINATE THE TURBIDITY PRIOR TO AND DURING DISCHARGE. ENERGY DISSIPATION MEASURES TO PREVENT SCOUR WILL BE NECESSARY.
- DISCHARGE OF OIL AND HAZARDOUS SUBSTANCES IS PROHIBITED BY SECTION 311 OF THE CLEAN WATER ACT. APPROPRIATE SPILL PREVENTION AND CONTROL PROCEDURES SHALL BE IMPLEMENTED PRIOR TO ANY CONSTRUCTION ACTIVITIES TO PREVENT OIL AND OTHER SUCH MATERIALS FROM DISCHARGING TO THE GROUND, DRAINS, DITCHES, SURFACE WATERS, WETLANDS AND/OR GROUNDWATER. THESE PROCEDURES SHALL INCLUDE, BUT ARE NOT LIMITED TO, PROPER MAINTENANCE OF CONSTRUCTION EQUIPMENT, DESIGNATION OF FUEL/HAZARDOUS SUBSTANCES HANDLING AREAS, USE OF APPROPRIATE CONTAINMENT AND AVAILABILITY OF SPILL RESPONSE RESOURCE FOR PREVENTION OF ANY SPILLS FROM ENTERING THE ENVIRONMENT. IF DESPITE SUCH PLANNING AND CONTROL, OIL OR HAZARDOUS SUBSTANCES ARE RELEASED TO THE ENVIRONMENT, IMMEDIATE NOTIFICATION SHALL BE GIVEN TO PROJECT ENGINEER, THE NYSCE EMERGENCY CALL CENTER (CECC) AT 1-833-538-1042, THE NYSDEC AT 1 800-457-7362 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 PER SPILL REPORTING REQUIREMENTS. AN EMERGENCY RESPONSE CONTAINMENT KIT INCLUDING OIL ABSORBENT BROOMS AND PADS SHALL BE RETAINED ON SITE FOR RAPID DEPLOYMENT TO SOAK UP ANY POSSIBLE SPILLAGE, PENDING NYSDEC ARRIVAL ON THE SCENE. THE USE OF CHEMICAL DISPERSING AGENTS AND EMULSIFIERS IS NOT AUTHORIZED WITHOUT PRIOR SPECIFIC FEDERAL OR STATE APPROVAL. THE COST OF SUCH MEASURES SHALL BE PAID FOR UNDER THE VARIOUS ITEMS OF THE CONTRACT.
- THE CONTRACTOR SHALL COMPLY WITH THE PROVISIONS OF ALL ENVIRONMENTAL PERMITS AND REGULATORY REQUIREMENTS FOR THIS PROJECT. THESE PLANS AND CONTRACT DOCUMENTS REFLECT THE ENVIRONMENTAL PROVISIONS AND REGULATORY REQUIREMENTS. ENVIRONMENTAL PERMIT(S) WILL BE PROVIDED TO THE CONTRACTOR BY THE ENGINEER PRIOR TO THE START OF CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH THESE PERMITS AND TO CONDUCT HIS OPERATIONS IN A MANNER THAT COMPLIES WITH THE REGULATORY REQUIREMENTS. A COPY OF THESE PERMITS SHALL BE MAINTAINED ON SITE.
- THE CONTRACTOR SHALL CONSULT THE ENGINEER PRIOR TO COMMENCING ACTIVITIES REGULATED BY THE SAID PERMIT(S). ANY ALTERATIONS OR DEVIATIONS FROM THESE PLANS AND CONTRACT DOCUMENTS MAY REQUIRE ADDITIONAL APPROVALS AND/OR PERMIT MODIFICATIONS FROM THE NYSCE OR REGULATORY AGENCIES. PRIOR TO COMMENCING ALTERATIONS OR DEVIATIONS FROM THESE PLANS AND CONTRACT DOCUMENTS, THE NYSCE ENVIRONMENTAL REPRESENTATIVE SHALL BE NOTIFIED, AND THE PROPER APPROVALS OBTAINED.

- CONTRACTOR IS PERMITTED TO WORK WITHIN WETLANDS ONLY AS INDICATED IN DRAWINGS. NO DISTURBANCE OF ANY OTHER WETLANDS SHALL BE PERMITTED.
- DURING CONSTRUCTION, NO WET OR FRESH CONCRETE SHALL BE ALLOWED TO ESCAPE DIRECTLY OR INDIRECTLY INTO ANY WATERBODY (I.E. STREAM, WETLAND, DITCH, POND, ETC.) OR DRAINAGE STRUCTURE. ALL WASHINGS FROM CONCRETE TRUCKS, MIXERS, OR OTHER DEVICES SHALL BE CONTAINERIZED IN A LINED CONCRETE WASHOUT DISPOSAL AREA AS SHOWN ON THE PLANS. UNDER NO CIRCUMSTANCES SHALL WASHINGS BE DIRECTLY PLACED ON SOIL OR BE ALLOWED TO ENTER DIRECTLY OR INDIRECTLY INTO ANY WATERBODY OR DRAINAGE STRUCTURE. ALL CONCRETE WASHOUT DISPOSAL AREAS UTILIZED BY THE CONTRACTOR SHALL BE PRE-APPROVED BY THE PROJECT ENGINEER AND LOCATED AT LEAST 50 FEET FROM ANY WATERBODY OR DRAINAGE STRUCTURE. IF THE 50-FOOT DISTANCE FROM ANY WATERBODY OR DRAINAGE STRUCTURE CANNOT BE ACHIEVED AT THE SITE THEN THE LOCATION OF THE CONCRETE WASHOUT DISPOSAL AREA MUST BE APPROVED BY THE NYSCE ENVIRONMENTAL ENGINEER.

CULVERT NOTES

- DESIGN SPECIFICATIONS: NYSDOT LRFD BRIDGE DESIGN SPECIFICATIONS WITH ALL PROVISIONS IN EFFECT AS OF MARCH 2023 (FOR DESIGN PURPOSES, COMPRESSIVE STRENGTH OF CONCRETE FOR SUBSTRUCTURES AND DECK SLABS AT 28 DAYS: f'c = 3000 psi.)
- LIVE LOAD: AASHTO HL - 93 WITH A MINIMUM LRFR RATING OF 1.2.
- DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS FOR WHICH NO SCALE IS SHOWN ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.
- ALL SHOP DRAWINGS SUBMITTED FOR THIS PROJECT SHALL BE IN US CUSTOMARY UNITS.
- THIS CULVERT SHALL BE MAINTAINED IN ACCORDANCE WITH THE GUIDELINES CONTAINED IN THE CURRENT EDITION OF THE AASHTO MAINTENANCE MANUAL FOR ROADWAYS AND BRIDGES.
- THE LOAD RATINGS ARE TO BE IN ACCORDANCE WITH THE AASHTO MANUAL FOR BRIDGE EVALUATION.
- RECORD PLANS FOR THE EXISTING PIPE CULVERTS ARE NOT AVAILABLE.

COFFERDAM & HYDRAULIC NOTES

- DESIGN HIGH WATER IS ESTIMATED TO BE 424.4 UPSTREAM AND 418.5 DOWNSTREAM. THIS IS DEFINED AS THE WATER SURFACE ELEVATION FOR THE MEAN ANNUAL FLOOD, WHICH IS THE FLOOD THAT HAS A RECURRENCE INTERVAL OF 2.33 YEARS.
- ORDINARY WATER IS ESTIMATED TO BE 422.0 UPSTREAM AND 418.3 DOWNSTREAM. THIS IS DEFINED AS THE HIGHEST SURFACE WATER ELEVATION LIKELY TO BE ENCOUNTERED DURING ONE CONSTRUCTION SEASON (OTHER THAN MAJOR FLOODS). IT IS ALWAYS LESS THAN THE DESIGN HIGH WATER ELEVATION AND IT IS USUALLY AN OBSERVED ELEVATION RATHER THAN A COMPUTED ONE.
- LOW WATER IS ESTIMATED TO BE 418.5 UPSTREAM AND 417.9 DOWNSTREAM. THIS WATER ELEVATION IS THE NORMAL LOW WATER ELEVATION PREVALENT DURING ONE CONSTRUCTION SEASON FOR MORE THAN 25% OF THE TIME. IT IS AN OBSERVED ELEVATION RATHER THAN A COMPUTED ONE.
- SHOULD THE CONTRACTOR ELECT TO LAY BACK A PORTION OF THE EXISTING EARTH ADJACENT TO AN EXCAVATION REQUIRING A COFFERDAM, ANY REQUIRED EXTENSIONS OF THE COFFERDAM NECESSARY TO KEEP WATER FROM ENTERING THE EXCAVATION SHALL BE FURNISHED AND PLACED AT NO COST TO THE OWNER.
- WHERE A COFFERDAM IS USED, THE COST OF DEWATERING THE ENTIRE EXCAVATION, REGARDLESS OF THE SOURCE OF WATER, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE COFFERDAM ITEM.
- SHOULD FIELD CONDITIONS REQUIRE A CHANGE FROM THE TYPE OF COFFERDAM SYSTEM CALLED FOR IN THE PLANS, THE ENGINEER SHALL CONTACT THE OWNER FOR COORDINATION WITH APPROPRIATE AGENCIES TO APPROVE THE CHANGE.
- IF MULTIPLE COFFERDAMS ARE REPLACED BY A SINGLE SYSTEM, WHEN APPROVED BY THE ENGINEER, PAYMENT SHALL BE BASED ON ALL OF THE APPLICABLE COFFERDAM ITEMS INDICATED IN THE PLANS.
- DEWATER THE COFFERDAM BY PUMPING THE WATER TO AN APPROVED UPLAND VEGETATED AREA OUTSIDE THE STREAMBED AS SHOWN ON THE PLANS AND/OR APPROVED BY THE ENGINEER. TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL, SUCH AS STRAW BALES OR APPROVED EQUAL, MAY BE REQUIRED AS DETERMINED BY THE ENGINEER. NO SETTLEMENT BASIN SHALL BE CONSTRUCTED.
- THE WATER LEVELS NOTED ON THE BORING LOGS INCLUDED IN THE CONTRACT PLANS FOR THIS STRUCTURE MAY NOT BE INDICATIVE OF ACTUAL WATER CONDITIONS AT THE TIME OF CONSTRUCTIONS.

MISCELLANEOUS NOTES

- THREADED INSERTS (WHERE DETAILED) SHALL BE DESIGNED FOR USE WITH NUMBER 5 AND NUMBER 6 REINFORCING BARS. INSERTS SHALL BE NON-CORROSIVE AND ABLE TO RESIST MINIMUM PULL-OUT LOADS OF 11,000 LB FOR NUMBER 5 REINFORCEMENT OR 16,000 LB FOR NUMBER 6 REINFORCEMENT WHEN USED IN F'c=3000 PSI CONCRETE
- PROCESS/SEQUENCE FOR CONSTRUCTION OF THE STONE APRONS:
 - NATIVE STREAMBED MATERIAL EXCAVATED FOR THE INSTALLATION OF THE STONE APRONS UNDER ITEM 206.0201 SHALL BE STOCK PILED AT THE SITE AND STAGED IN THE DEWATERING AREA.
 - STONE FILL AND CRUSHED STONE SHALL BE PLACED UNDER ITEMS 620.05 & 623.12, RESPECTIVELY, IN ACCORDANCE WITH THE DETAILS.
 - ITEM 613.04000001 - STOCKPILE AND PLACING EXISTING STREAMBED MATERIALS, SHALL BE USED TO COMPLETELY FILL THE VOIDS OF THE PROPOSED STONE APRONS.
 - ITEM 615.01010108 - MATERIAL FOR STREAMBED ESTABLISHMENT, WITH A TYPE 2 GRADATION, SHALL BE USED TO SUPPLEMENT THE EXCAVATED NATIVE STREAMBED MATERIAL AS NEEDED TO COMPLETE THE WORK.
- THE CONTRACTOR SHALL PROVIDE A SURVEY-GRADE GPS FOR FIELD LOCATIONS, PAID FOR UNDER ITEM 625.110001.
- THE CONTRACTOR IS REFERRED TO THE CONTRACT PROPOSAL FOR ADDITIONAL NOTES AND INFORMATION NOT CONTAINED ON THESE PLANS.

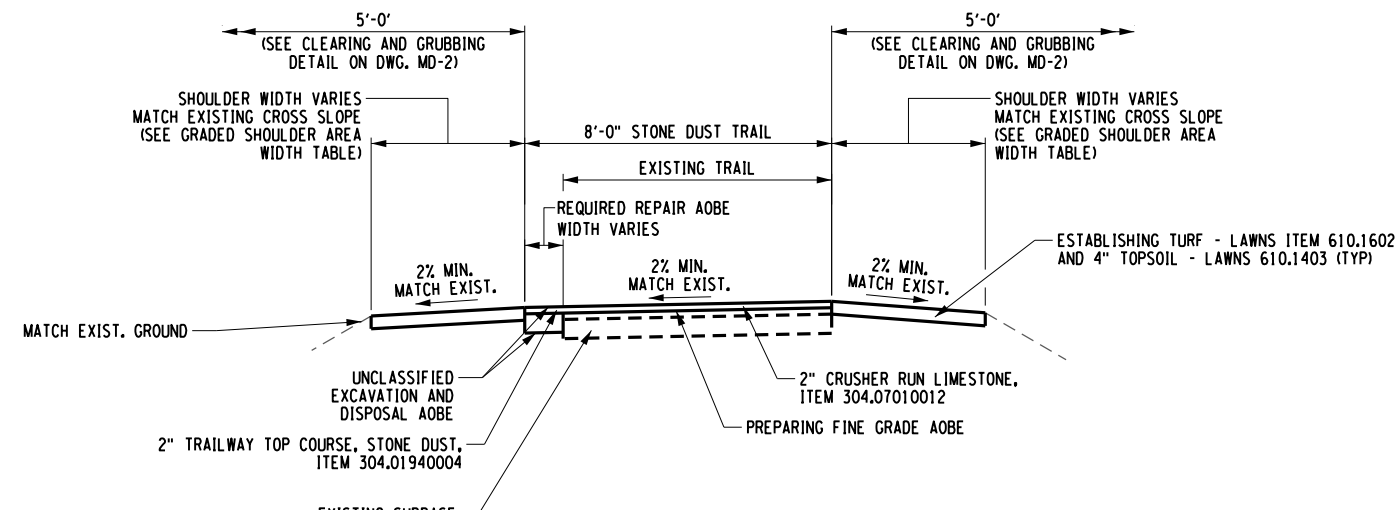
AFFIXED ON:
9/24/2024

SIGNATURE:
STAMP:

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REVISIONS			
DATE	DESCRIPTION	BY	SYM.

 Canal Corporation	TITLE OF PROJECT THOMAS ROAD CULVERT REPLACEMENT	CONTRACT NUMBER: K24-10359171-NF
	LOCATION OF PROJECT OLD ERIE CANAL TOWN OF WHITESTOWN, ONEIDA COUNTY	DATE: 09/24/2024
 Drawing Copyright © 2023 18 Whittier Circle, PO Box 1240 Whitney, NY 13294-0240 615.452.4550 - www.cmaa4k.com	TITLE OF DRAWING GENERAL NOTES	DRAWING NUMBER: GN-2

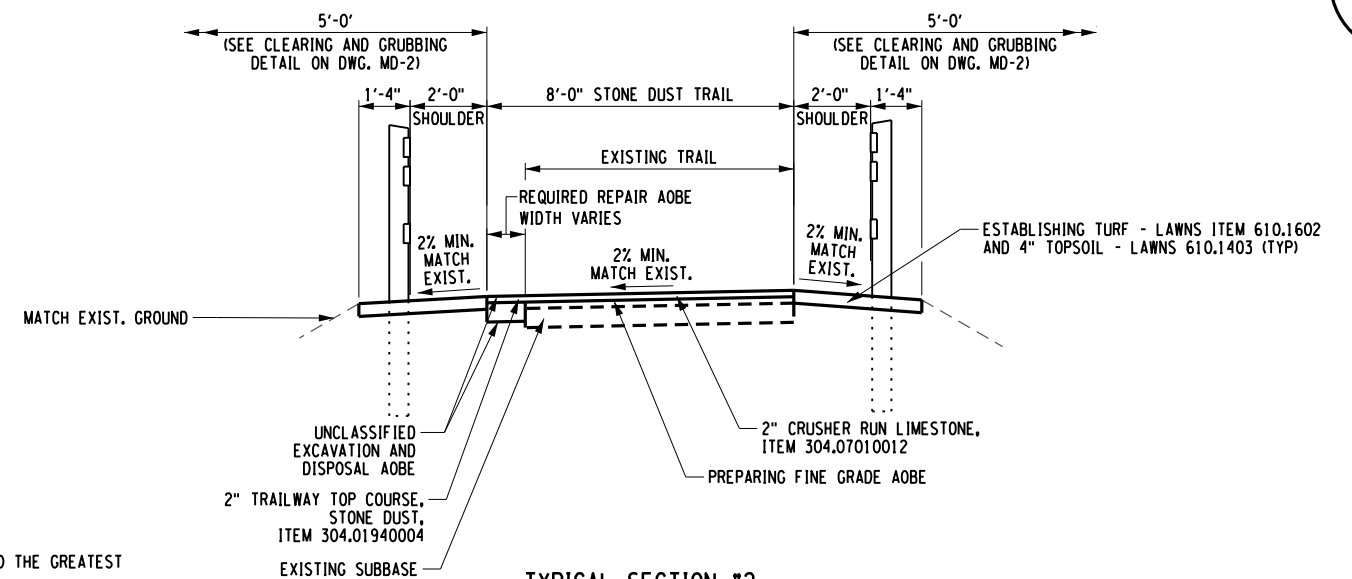


TYPICAL SECTION #1
EXISTING OLD CANAL TRAIL REPAIR

N.T.S.
LOCATIONS:
STA D 142+43.00 TO STA D 160+98.00
STA D 161+62.00 TO STA D 218+30.00

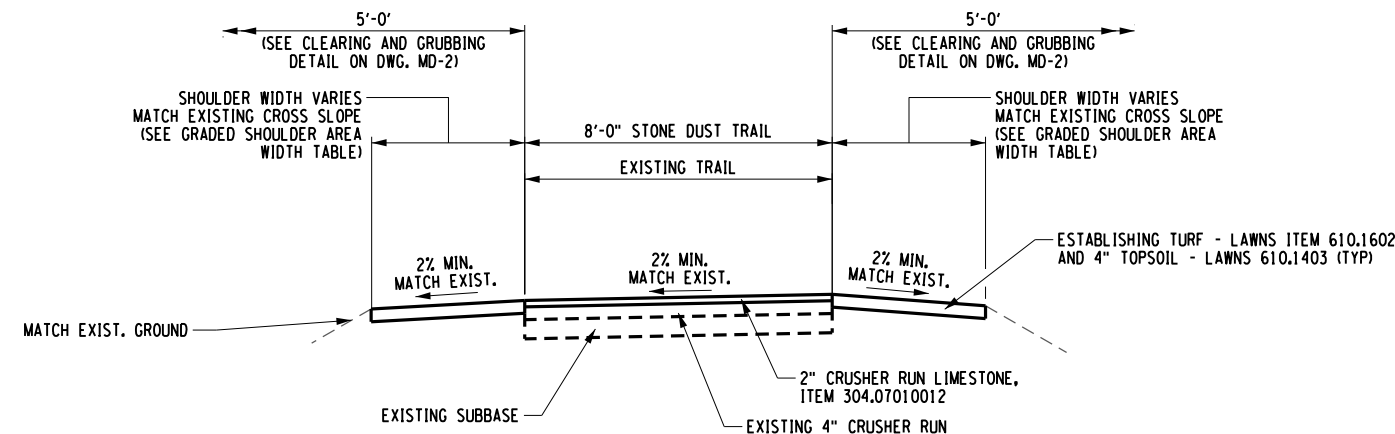
TRAIL REPAIR NOTES:

1. THE CONTRACTOR SHALL LIMIT TRAIL DAMAGE AND DISTURBANCE TO THE GREATEST EXTENT POSSIBLE.
2. CONTRACTOR SHALL MEASURE EXISTING TRAIL SECTIONS PRIOR TO DISTURBANCE SO AS TO BE AWARE OF EXISTING TRAIL AND SHOULDER WIDTHS AND CROSS SLOPES.



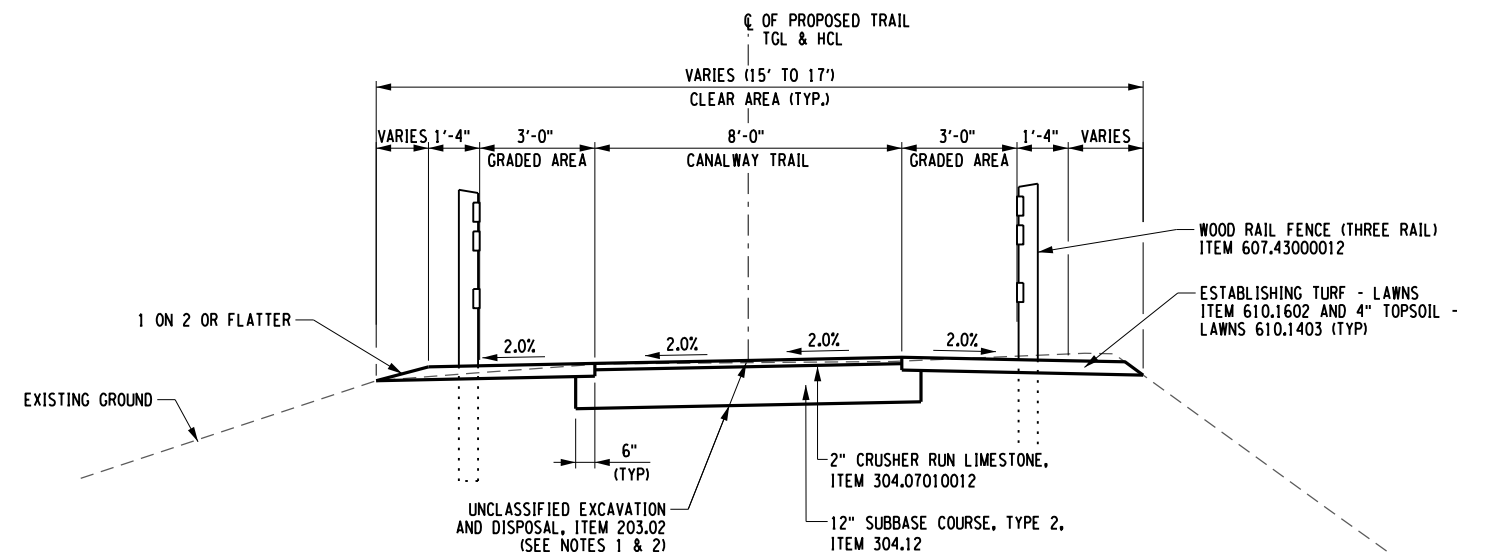
TYPICAL SECTION #2
EXISTING OLD CANAL TRAIL REPAIR - AT 2' SHOULDERS WITH RAIL

N.T.S.
LOCATIONS:
STA D 160+98.00 TO STA D 161+62.00



TYPICAL SECTION #3
EXISTING OLD CANAL TRAIL REPAIR - DUST STONE OVERLAY ON CRUSHER RUN

N.T.S.
LOCATIONS:
STA D 218+30.00 TO STA D 226+60.00
STA D 228+75.00 TO STA D 240+93.70



TYPICAL SECTION #4
PROPOSED OLD CANAL TRAIL - RAILING AT CULVERT AREA

N.T.S.
LOCATIONS:
STA D 226+60.00 TO STA D 227+49.33
STA D 227+66.67 TO STA D 228+75.00
(SEE DWG. ST-2 FOR CULVERT SECTION)

NOTES:

1. ALL EXISTING EXPOSED GEOTEXTILE FABRIC SHALL BE CUT AND REMOVED.
2. EXISTING GROUND SHALL BE GRADED AND PROOF ROLLED PRIOR TO PLACING ANY EMBANKMENT-IN-PLACE AND/OR SUBBASE MATERIAL.
3. EMBANKMENT MATERIAL SHALL BE APPROVED BY CANAL CORP. REPRESENTATIVE PRIOR TO PLACEMENT. FOR ALL PLACED MATERIALS, LIFTS (WHERE APPROPRIATE) SHALL BE BROUGHT UP USING SMALL COMPACTION EQUIPMENT.
4. SUITABLE EXCAVATED MATERIAL TO BE RE-USED FOR EMBANKMENT IN PLACE.
5. ALL EXCAVATED SPOIL MATERIAL MUST BE PROPERLY DISPOSED OF AT A PART 360 DISPOSAL FACILITY. CONTRACTOR SHALL COORDINATE DISPOSAL OF SOILS WITH THE CANAL CORPORATION PROJECT REPRESENTATIVE.
6. ALL DISTURBED AREAS SHALL BE SEEDED AND STABILIZED AS DIRECTED BY CANAL CORP. PROJECT ENGINEER.

ITEM	DESCRIPTION	UNIT
201.06	CLEARING AND GRUBBING	LS
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CY
203.03	EMBANKMENT IN PLACE	CY
304.07010012	CRUSHER RUN LIMESTONE	CY
304.12	SUBBASE COURSE, TYPE 2	CY
607.43000012	WOOD RAIL FENCE (THREE RAIL)	LF
610.1403	TOPSOIL - LAWNS	CY
610.1602	ESTABLISHING TURF - LAWNS	SY

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REVISIONS			
DATE	DESCRIPTION	BY	SYM.

GRADED SHOULDER AREA WIDTHS TABLE			
STATION	SIDE	LENGTH (FT)	GRADED AREA WIDTH (FT)
D 142+43 TO D 160+98	LT	1,855	5
D 142+43 TO D 155+42	RT	1,299	5
D 155+42 TO D 156+12	RT	70	3
D 156+12 TO D 160+98	RT	486	5
D 160+98 TO D 161+62	LT & RT	64	2
D 161+62 TO D 218+30	LT	5,668	5
D 161+62 TO D 218+30	RT	5,668	4
D 218+30 TO D 220+75	LT & RT	245	4
D 220+75 TO D 226+60	LT	585	5
D 220+75 TO D 226+60	RT	585	4
D 226+60 TO D 228+75	LT & RT	215	3
D 228+75 TO D 241+04	LT	1,229	5
D 228+75 TO D 241+04	RT	1,229	4

AFFIXED ON:
9/24/2024

SIGNATURE:
STAMP:



TITLE OF PROJECT THOMAS ROAD CULVERT REPLACEMENT	CONTRACT NUMBER: K24-10359171-NF
LOCATION OF PROJECT OLD ERIE CANAL TOWN OF WHITESTOWN, ONEIDA COUNTY	DATE: 09/24/2024
TITLE OF DRAWING TYPICAL SECTIONS	DRAWING NUMBER: TYP-1

FILE NAME : V:\Projects\NY\K5\073183\000\09\Design\Drawings\Hwy\Package 3 - Culvert Replacement near Thomas Road\073183.cph,aztc01.thomas.culvert.dgn
DATE/TIME : 03-OCT-2024
USER : 7558

CHECKED BY:

DRAFTED BY:

CHECKED BY:

DESIGNED BY:

DESIGN SUPERVISOR:

AFFIXED ON:
9/24/2024

SIGNATURE:
STAMP:

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REVISIONS			
DATE	DESCRIPTION	BY	SYM.

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STATE OF
OPPORTUNITY

Canal
Corporation

CMAA

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TITLE OF PROJECT THOMAS ROAD CULVERT REPLACEMENT	CONTRACT NUMBER: K24-10359171-NF
LOCATION OF PROJECT OLD ERIE CANAL TOWN OF WHITESTOWN, ONEIDA COUNTY	DATE: 09/24/2024
TITLE OF DRAWING WORK ZONE TRAFFIC CONTROL DETOUR PLAN	DRAWING NUMBER: WZTC-1

R11-3a (MODIFIED)

CLOSED FOR REPAIRS

Trail Work Underway
by NYS Canal Corp

See What's
Happening
www.nyscanal.com



R11-3a (MODIFIED)

CLOSED FOR REPAIRS

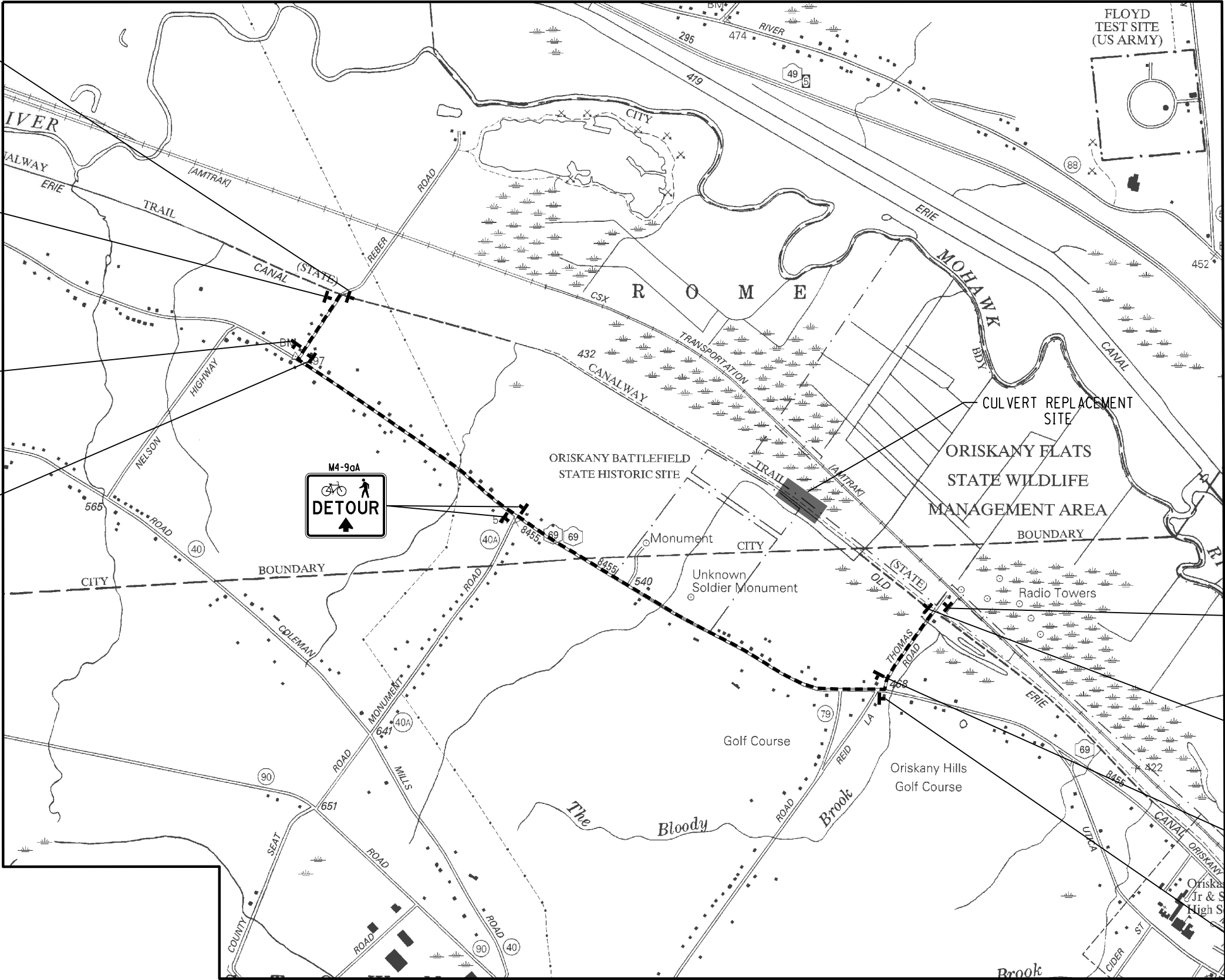
Trail Work Underway
by NYS Canal Corp

See What's
Happening
www.nyscanal.com



- WORK ZONE TRAFFIC CONTROL NOTES:
- CONTRACTOR SHALL PROVIDE WARNING SIGNS AT ALL ENTRANCES ALONG PUBLIC ROADWAYS WHERE CONSTRUCTION VEHICLES WILL BE REGULARLY ENTERING AND LEAVING THE CONSTRUCTION SITE. PROVIDE "TRUCKS ENTERING AND LEAVING HIGHWAY" WARNING SIGNS THAT ARE 36" X 36" MINIMUM WITH A BLACK LEGEND AND BORDER ON AN ORANGE BACKGROUND, OR APPROVED EQUAL. TWO SIGNS SHALL BE INSTALLED AT EACH ENTRANCE WITH ONE SIGN FACING EACH DIRECTION OF TRAFFIC.
 - CONTRACTOR SHALL PROVIDE AND MAINTAIN TRAIL CLOSURE SIGNAGE AND CONSTRUCTION FENCING AT TRAIL INTERSECTIONS WITH THOMAS ROAD, REBER ROAD, AND AOE. TRAIL CLOSURE SIGNAGE SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL APPROVED FOR REMOVAL BY NYSCC. NYSCC SHALL PROVIDE SIGN FACE LAYOUTS.
 - CONTRACTOR SHALL PROVIDE AND MAINTAIN ADVANCED WARNING SIGNAGE INFORMING TRAIL USERS OF THE TRAIL CLOSURE FOR THE DURATION OF THE WORK. ADVANCED WARNING SIGNAGE SHALL BE PLACED AT THE TRAIL HEAD PARKING AREAS NEAR STANWIX AVE AND RIVER STREET, OR AOE. CONTRACTOR SHALL SUBMIT PROPOSED SIGNAGE TO NYSCC FOR APPROVAL.

0 125 250 FEET
SCALE



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DRAFTED BY: JLC

CHECKED BY: JLC

DESIGNED BY: JLC

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REVISIONS			
DATE	DESCRIPTION	BY	SYMBOL



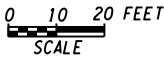
Canal Corporation



TITLE OF PROJECT THOMAS ROAD CULVERT REPLACEMENT	CONTRACT NUMBER: K24-10359171-NF
LOCATION OF PROJECT OLD ERIE CANAL TOWN OF WHITESTOWN, ONEIDA COUNTY	DATE: 09/24/2024
TITLE OF DRAWING THOMAS ROAD TRAILHEAD ACCESS PLAN	DRAWING NUMBER: WZTC-2



TRAILHEAD INFORMATION AT THOMAS ROAD PLAN



- NOTES:**
- 2017 NYS GIS ORTHOIMAGERY DISPLAYED FOR REFERENCE.
 - ARCGIS LIDAR APPROXIMATE HIGHWAY AND PROPERTY BOUNDARIES DISPLAYED FOR REFERENCE.
 - PROPERTY OWNER INFORMATION IS BASED ON ONEIDA COUNTY TAX INFORMATION.
 - CONTRACTOR MUST OBTAIN APPROVAL FOR STAGING, PHASING, AND STORAGE (SEE DWG. GN-1).

CHECKED BY: LMM

DRAFTED BY: JLC

CHECKED BY: JLC

DESIGNED BY: JLC

DESIGN SUPERVISOR: LMM

AFFIXED ON:
9/24/2024

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REVISIONS			
DATE	DESCRIPTION	BY	SYMBOL



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TITLE OF PROJECT THOMAS ROAD CULVERT REPLACEMENT
LOCATION OF PROJECT OLD ERIE CANAL TOWN OF WHITESTOWN, ONEIDA COUNTY
TITLE OF DRAWING REBER ROAD TRAILHEAD ACCESS PLAN

CONTRACT NUMBER: K24-10359171-NF
DATE: 09/24/2024
DRAWING NUMBER: WZTC-3

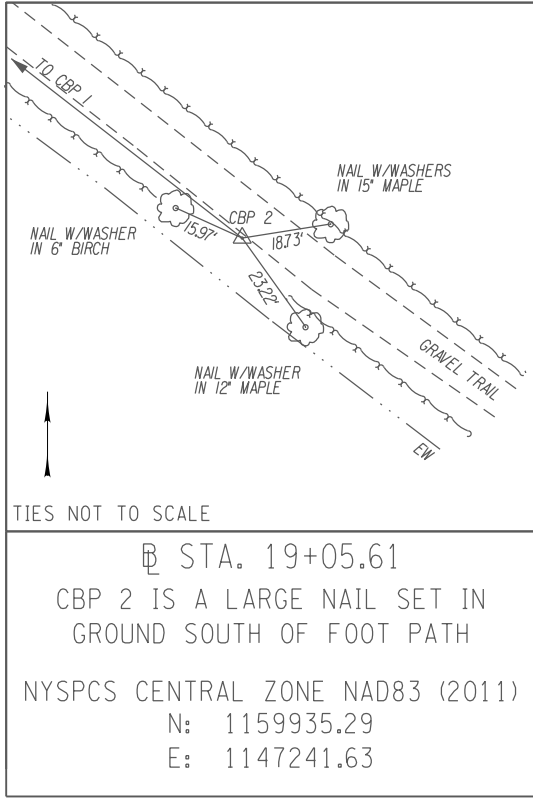
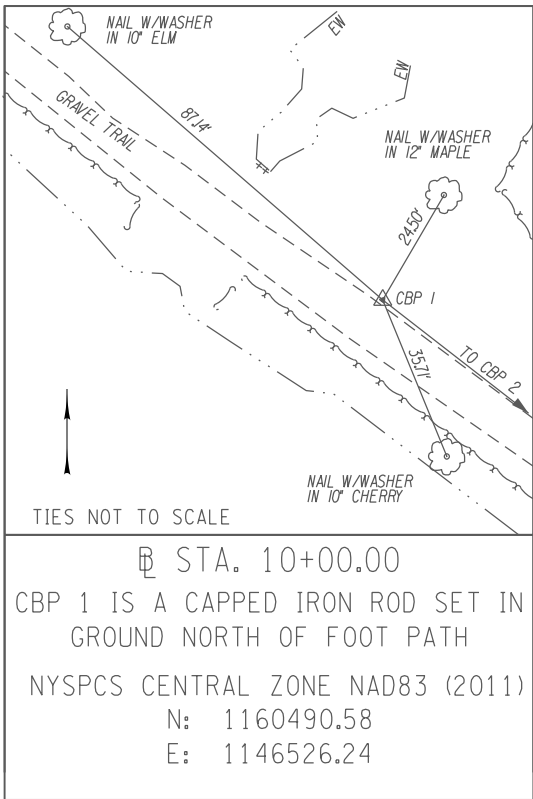


TRAILHEAD INFORMATION AT REBER ROAD PLAN

- NOTES:**
- 2017 NYS GIS ORTHOIMAGERY DISPLAYED FOR REFERENCE.
 - ARCGIS LIDAR APPROXIMATE HIGHWAY AND PROPERTY BOUNDARIES DISPLAYED FOR REFERENCE.
 - PROPERTY OWNER INFORMATION IS BASED ON ONEIDA COUNTY TAX INFORMATION.
 - CONTRACTOR MUST OBTAIN APPROVAL FOR STAGING, PHASING, AND STORAGE (SEE DWG. GN-1).

SURVEY BY: PRUDENT ENGINEERING
AGENCY/COUNTY: NYS CC ERIE CANALWAY TRAIL (ORISKANY TO STANWIX) ONEIDA COUNTY, NEW YORK
CULVERT (STRIN *4X0867E) REPLACEMENT
SURVEY COMPLETION DATE: FEBRUARY/2022
HORIZONTAL DATUM IS NAD83 (2011).
COORDINATES ARE NEW YORK STATE PLANE COORDINATE SYSTEM - CENTRAL ZONE.
THE COMBINED SCALE FACTOR IS 1.0000362525.
VERTICAL DATUM IS NAVD88.

- NOTES:
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY UDIG NY FOR ALL UNDERGROUND UTILITY LOCATIONS PRIOR TO ANY EXCAVATION.
 - ALL SUBSURFACE LOCATIONS SHOWN ARE APPROXIMATE AND SHALL BE USED FOR PRELIMINARY ENGINEERING ONLY.
 - UTILITY INFORMATION HAS BEEN PLOTTED FROM AVAILABLE SOURCES AND THEIR PURPOSE, LOCATIONS AND SIZE SHOULD BE CONSIDERED APPROXIMATE ONLY.
 - THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING EXACT UTILITY LOCATIONS, SIZES, AND ELEVATIONS PRIOR TO COMMENCING CONSTRUCTION. IF UNCHARTED OR MISPLOTTED UTILITIES ARE ENCOUNTERED, THE CONTRACTOR IS REQUIRED TO NOTIFY THE OWNER IMMEDIATELY.
 - PRIOR TO BEGINNING ANY WORK, THE CONTRACTOR IS RESPONSIBLE FOR THE VERIFICATION OF SURVEY CONTROL POINTS USED IN THE VERTICAL AND HORIZONTAL POSITIONING OF DESIGNED IMPROVEMENTS AND FOR IMMEDIATELY NOTIFYING THE EJC. OF ANY DISCREPANCIES FOUND.



HORIZONTAL CONTROL TABLE				
H.C.L. POINT	H.C.L. STATION	COORDINATES		DESCRIPTION
		NORTH	EAST	
OLD ERIE CANAL TRAIL				
P.O.B.	D 225+75.00	1160125.7153	1147000.8844	BEGIN ALIGNMENT
P.I.	D 226+61.44	1160073.7566	1147069.9660	P.I.
P.I.	D 227+57.42	1160016.0623	1147146.6735	P.I.
P.O.E.	D 229+00.00	1159928.0243	1147258.8226	END ALIGNMENT

TABLE OF BENCHMARKS					
BM NO.	STATION	OFFSET	LT/RT	ELEVATION	DESCRIPTION
2	D 228+94.7	8.8'	LT	430.39	NAIL WITH WASHERS IN 15" MAPLE

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	DATE	DESCRIPTION	BY	SYN.		LOCATION OF PROJECT OLD ERIE CANAL TOWN OF WHITESTOWN, ONEIDA COUNTY		DATE: 09/24/2024
						TITLE OF DRAWING THOMAS ROAD CULVERT HORIZONTAL AND VERTICAL CONTROL		DRAWING NUMBER: HVC-1

0 10 20 FEET
SCALE

GRID
NORTH

FILE NAME = V:\Projects\NY\K5\073183\000\09\Design\Drawings\Hwy\Package 3 - Culvert Replacement near Thomas Road\073183.cph.mdi.01.thomas.culvert.dgn
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USER = 7558
DESIGN SUPERVISOR: LMM

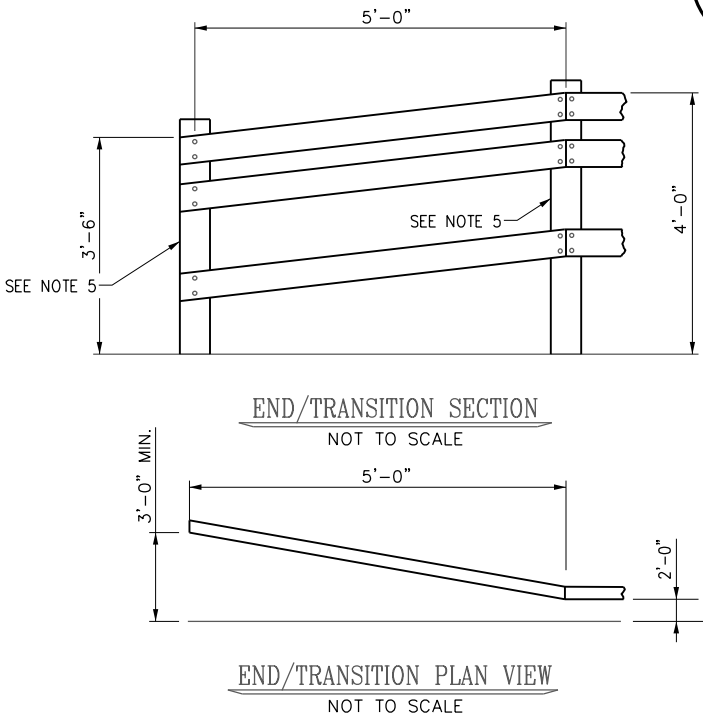
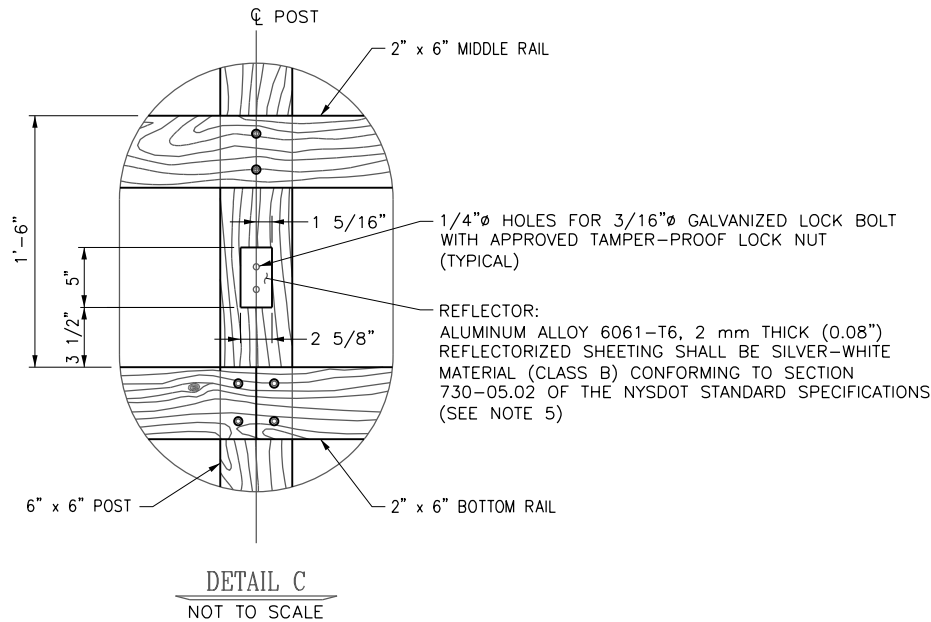
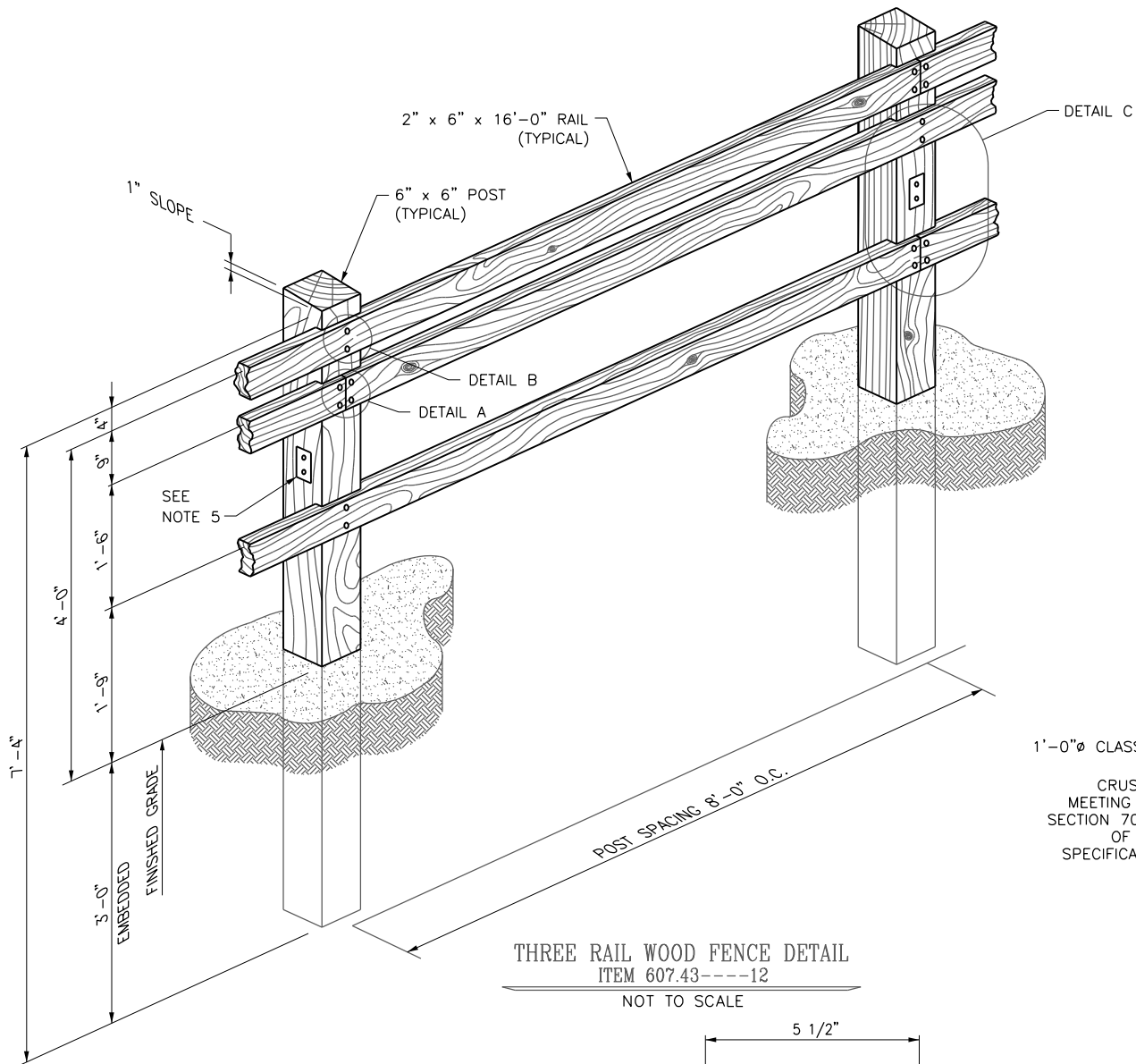
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CHECKED BY: JLC

DESIGNED BY: JLC

DESIGN SUPERVISOR: LMM



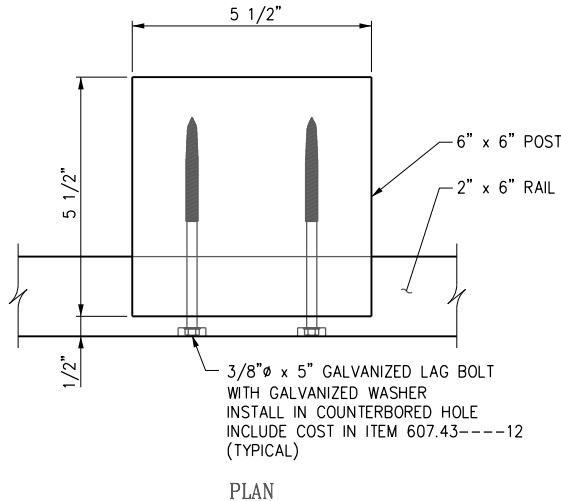
NOTES:

- RAIL SHALL BE PROVIDED IN 16'-0" LENGTHS. INSTALLATION OF ENTIRE POST AND RAIL FENCE SHALL BE PAID FOR UNDER ITEM 607.43----12.
- SPLICES SHALL BE STAGGERED SO THAT NO MORE THAN TWO RAILS ARE DISCONTINUOUS AT ANY GIVEN POST.
- ALL WOOD SHALL MEET SECTION 710-13 OF THE NYSDOT STANDARD SPECIFICATIONS.
- ONLY ONE WOOD TYPE SHALL BE USED IN THE FENCE.
- THE CONTRACTOR SHALL INSTALL REFLECTORS ON THE END FACE (FACING TRAIL TRAFFIC) OF ALL WOOD FENCE POSTS THAT ARE PART OF THE FLARED END/TRANSITION SECTION. REFLECTORS SHALL ALSO BE INSTALLED ON THE INTERIOR FACE OF EACH WOOD FENCE POST THAT IS BORDERING, AND ON A CURVE. ALL REFLECTOR COSTS TO BE INCLUDED UNDER ITEM 607.43----12.
- POST AND RAIL SIZES ARE INDICATED IN NOMINAL SIZES.
- FASTENERS USED IN PRESERVATIVE TREATED WOOD SHALL BE HOT-DIP ZINC COATED GALVANIZED STEEL, STAINLESS STEEL, SILICONE BRONZE, OR COPPER. THE COATING WEIGHTS FOR ZINC COATED FASTENERS SHALL BE IN ACCORDANCE WITH ASTM SPECIFICATION A153.

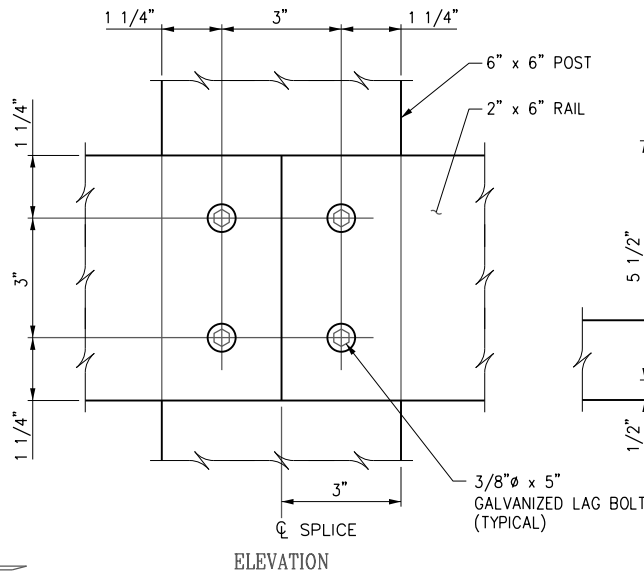
NOTE: INCLUDE THE COST OF CONCRETE FOOTING WORK IN THE COST BID FOR ITEM 607.43----12

FENCE POST FOOTING DETAIL NOT TO SCALE

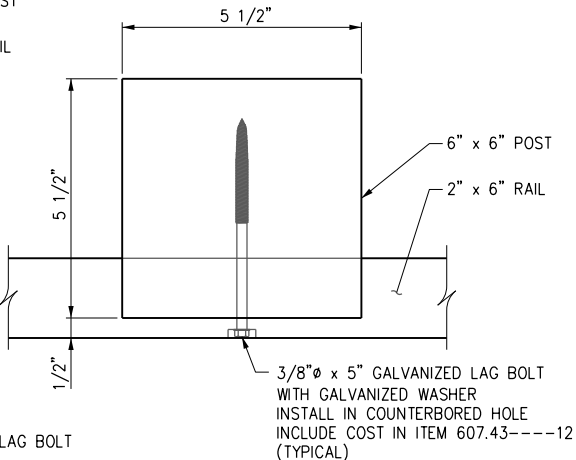
1'-0"Ø CLASS A CONCRETE FOOTING
CRUSHED BEDDING MATERIAL MEETING THE REQUIREMENTS OF SECTION 703-0201 OR 703-0202 OF THE NYSDOT STANDARD SPECIFICATIONS, WITH A PRIMARY SIZE DESIGNATION OF 1



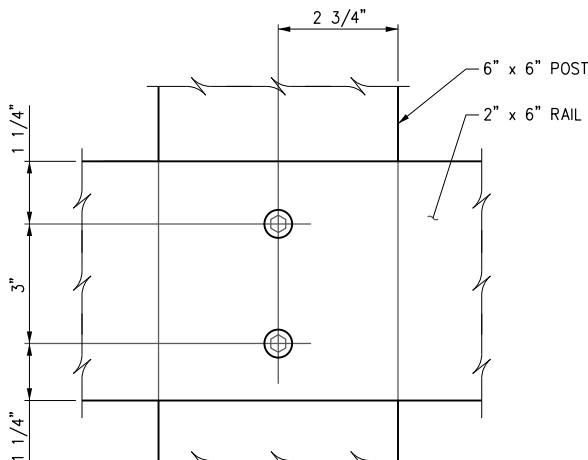
DETAIL A NOT TO SCALE



PLAN



DETAIL B NOT TO SCALE



ELEVATION



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE. THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REVISIONS			
DATE	DESCRIPTION	BY	SYM.
12/4/23	REVISED FENCING DETAILS SHEET		



TITLE OF PROJECT THOMAS ROAD CULVERT REPLACEMENT	CONTRACT NUMBER: K24-10359171-NF
LOCATION OF PROJECT OLD ERIE CANAL TOWN OF WHITESTOWN, ONEIDA COUNTY	DATE: 09/24/2024
TITLE OF DRAWING MISCELLANEOUS DETAILS	DRAWING NUMBER: MD-1

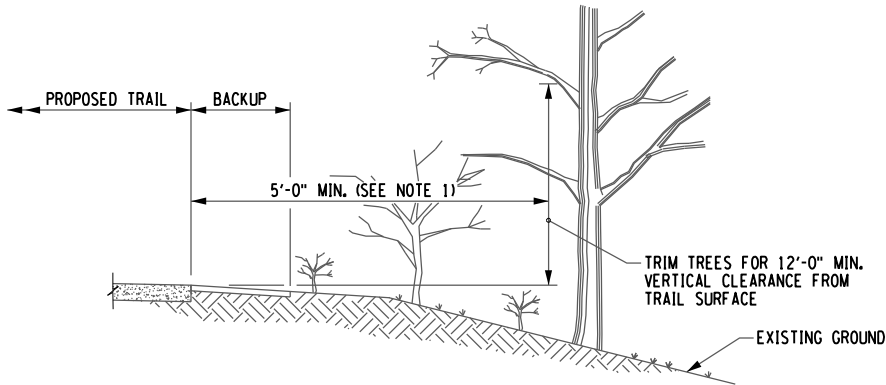
FILE NAME : V:\Projects\NY\K5\073183\000\091.Design\Drawings\Hwy\Package 3 - Culvert Replacement near Thomas Road\073183.cph.md.02.thomas.culvert.dgn
DATE/TIME : 03-OCT-2024 12:34:34
USER : 7558
DESIGN SUPERVISOR: LMM

CHECKED BY: LMM

DRAFTED BY: JLC

CHECKED BY:

DESIGNED BY: JLC

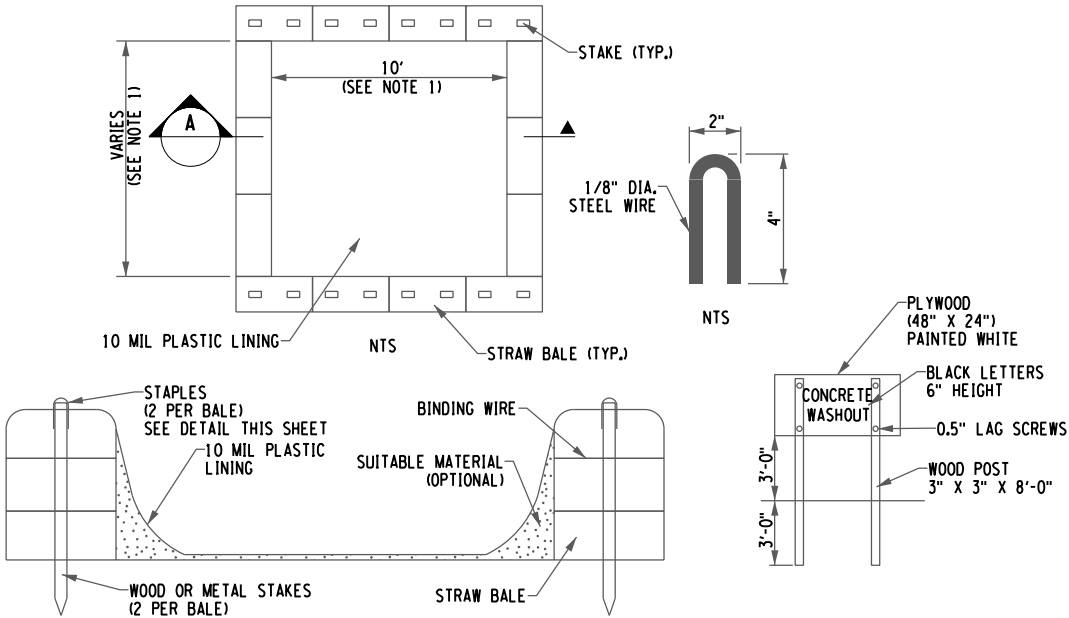


TYPICAL DETAIL - CLEARING AND GRUBBING

NTS
PAID FOR UNDER ITEM 201.06

CLEARING AND GRUBBING NOTES:

1. THE CONTRACTOR SHALL CLEAR AND GRUB ALL VEGETATION WITH A 5'-0" HORIZONTAL DISTANCE FROM THE EDGE OF TRAIL, OR AS INSTRUCTED BY THE ENGINEER. IN ADDITION, THE CONTRACTOR SHALL PRUNE OR REMOVE ALL VEGETATION WITHIN A 12' VERTICAL DISTANCE FROM THE TRAIL SURFACE, OR AS INSTRUCTED BY THE ENGINEER.
2. TREES TO BE REMOVED HAVE BEEN MARKED WITH PINK PAINT, AS LISTED ON DWG MT-1.
3. ALL BRANCHES TRIMMED WITHIN THE HORIZONTAL AND VERTICAL OFFSET DISTANCE SHALL BE PRUNED AS CLOSE TO THE TRUNK'S GROWTH COLLAR AS POSSIBLE.
4. CONTRACTOR IS RESPONSIBLE FOR LIMITING DISTURBED AREAS DURING ALL CLEARING AND GRUBBING/TRIM CANOPY (TREE PRUNING) OPERATIONS. THESE PROPOSED AREAS ARE NOT EVALUATED AS DISTURBED AREAS FOR A NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL (SPDES) GENERAL PERMIT FOR STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES. ALL DISTURBED AREAS RESULTING FROM CLEARING AND GRUBBING CONSTRUCTION ACTIVITIES SHALL BE RESTORED AS DIRECTED BY THE ENGINEER. COST FOR THIS WORK IS TO BE INCLUDED IN THE CLEARING AND GRUBBING ITEM.
5. TREE REMOVAL SHALL BE COMPLETED BY EITHER CLEARING AND GRUBBING OR CLEARING, FLUSH CUTTING METHODS, AS DIRECTED BY ENGINEER. WHOLESALE CLEARING AND GRUBBING OF TREES SHALL NOT BE ALLOWED IN STATE PROTECTED WETLANDS, AND SHOULD BE AVOIDED AND MINIMIZED IN FEDERALLY PROTECTED WETLANDS WHENEVER POSSIBLE. THE CONTRACTOR SHALL TAKE CARE NOT TO FURTHER IMPACT STATE AND FEDERAL WETLANDS BEYOND WHAT IS REASONABLY NECESSARY TO CONDUCT CLEARING AND GRUBBING AND SELECTIVE TREE REMOVAL ACTIVITIES. ALL WETLAND AREAS SHOWN ON PLANS ADJACENT TO AND OUTSIDE OF CLEARING AND GRUBBING ZONES AND SELECTIVE TREE LOCATIONS SHALL BE LEFT UNDISTURBED TO PREVENT FURTHER IMPACTS, UNLESS OTHERWISE ALLOWED BY A PROJECT SPECIFIC ARMY CORP OF ENGINEERS OR NYSDEC WETLAND PERMIT. ACTIVITIES NOT TO ENCROACH ON ADJACENT WETLANDS INCLUDE, BUT NOT LIMITED TO, MOVEMENT OF VEHICLES, CONSTRUCTION STAGING, DISPOSAL OF WOOD CHIPPINGS, PLACEMENT OF EROSION CONTROL FEATURES, AND SPREADING OF SPOILED SOIL. VEGETATION PROTECTION BARRIER FENCING, MAY BE NECESSARY IF THE ADJACENT AREAS ARE DEEMED ENVIRONMENTALLY SENSITIVE, A.O.B.E.
6. ALL PROVISIONS OF SECTION 201 - CLEARING AND GRUBBING, NOT MODIFIED BY THIS DRAWING, SHALL APPLY.
7. INDIVIDUAL TREE REMOVAL LISTED IN THE CONTRACT DOCUMENTS WILL BE PAID AS INDICATED ON DWG MT-1. STUMPS LISTED FOR REMOVAL SHALL BE BACKFILLED TO FINISHED GRADE WITH TOPSOIL UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS (SEE DWG. MT-1 FOR TREE REMOVALS).



SECTION A-A

SECTION

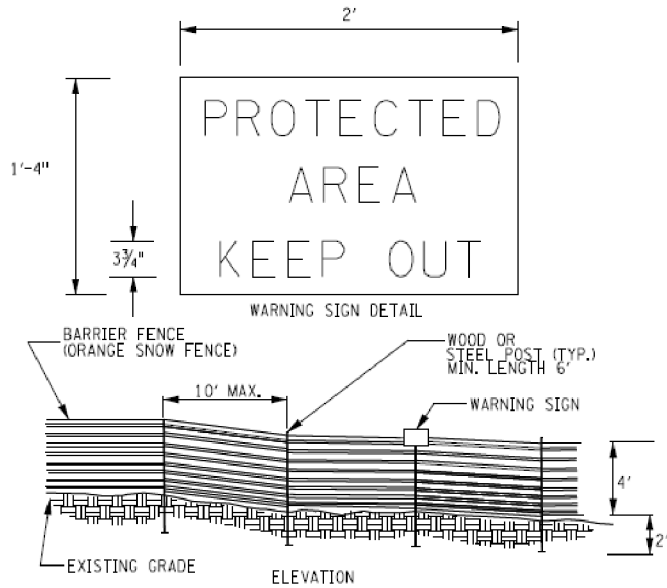
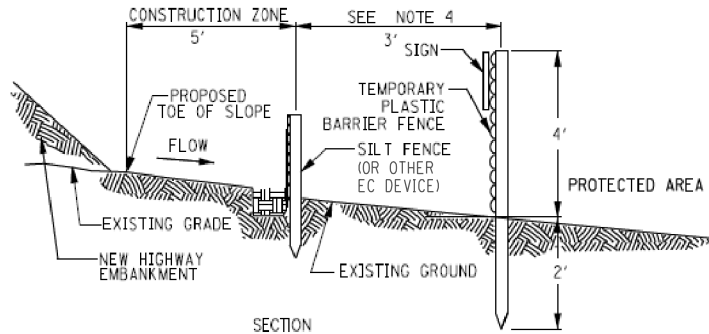
NTS

CONCRETE WASHOUT SIGN DETAIL

NTS

CONCRETE WASHOUT NOTES:

1. ACTUAL LAYOUT AND LOCATION TO BE DETERMINED IN FIELD, AS APPROVED BY THE ENGINEER.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 5 FEET OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. LOCATE WASHOUT AREA AT LEAST 50 FEET FROM STORM DRAINS, OPEN DITCHES, OR WATER BODIES. DO NOT ALLOW RUNOFF FROM THIS AREA BY CONSTRUCTING A TEMPORARY PIT OR BERMED AREA LARGE ENOUGH FOR LIQUID OR SOLID WASTE.
4. WASH OUT WASTES INTO THE TEMPORARY PIT WHERE THE CONCRETE CAN SET, BE BROKEN UP, AND THEN DISPOSED PROPERLY.
5. TEMPORARY CONCRETE WASHOUT FACILITY (TYPE ABOVE GRADE) SHALL BE CONSTRUCTED AS SHOWN ON THE DETAILS WITH A RECOMMENDED MINIMUM LENGTH AND MINIMUM WITH 0 10 FEET, BUT WITH SUFFICIENT QUANTITY AND VOLUME TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.
6. STRAW BALES, WOOD STAKES, AND SANDBAG MATERIALS SHALL CONFORM TO THE PROVISIONS IN THE EROSION AND SEDIMENT CONTROL SPECIFICATIONS.
7. PLASTIC LINING MATERIAL SHALL BE A MINIMUM OF 10 MIL IN POLYETHYLENE SHEETING AND SHOULD BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.
8. WHEN TEMPORARY CONCRETE WASHOUT FACILITIES ARE NO LONGER REQUIRED FOR THE WORK, THE HARDENED CONCRETE SHALL BE REMOVED AND DISPOSED FROM THE SITE OF WORK.
9. HOLES, DEPRESSIONS, OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE BACKFILLED AND REPAIRED.
10. TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE MAINTAINED TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM FREEBOARD OF 4 INCHES. MAINTAINING TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD INCLUDE REMOVING AND DISPOSING OF HARDENED CONCRETE AND RETURNING THE FACILITIES TO A FUNCTIONAL CONDITION. HARDENED CONCRETE MATERIALS SHOULD BE REMOVED AND DISPOSED.
11. WASHOUT FACILITIES SHALL BE CLEANED, OR NEW FACILITIES SHALL BE CONSTRUCTED AND READY FOR USE ONCE THE WASHOUT IS 75% FULL.
12. THE COST FOR THE CONCRETE WASHOUTS SHALL BE INCLUDED IN THE PRICE BID FOR ALL CONCRETE ITEMS.



TEMPORARY PLASTIC BARRIER FENCE

NTS
ITEM 607.41010010

TEMPORARY PLASTIC BARRIER NOTES:

1. SIGNS SHALL BE PLACED EVERY 50 FEET OR A.O.B.E.
2. FENCE SHALL BE ATTACHED TO POSTS PER MANUFACTURERS RECOMMENDATIONS.
3. TREE / VEGETATION PROTECTION BARRIER SHALL BE INSTALLED A.O.B.E. PRIOR TO BEGINNING ANY WORK IN THESE AREAS.
4. IN AREAS ADJACENT TO OR WITHIN A WETLAND, THE ENGINEER IN CHARGE MAY REQUIRE THE TREE / VEGETATION BARRIER TO BE PLACED IN COMBINATION WITH THE SILT FENCE OR OTHER EROSION CONTROL DEVICES.
5. THE ENGINEER IN CHARGE MAY EXTEND THE DISTANCE BETWEEN THE PROPOSED TOE-OF-SLOPE AND SILT FENCE PROVIDING IT DOES NOT TAKE PLACE IN A WETLAND / WATERBODY AND DOES NOT REQUIRE THE REMOVAL OF EXISTING VEGETATION.
6. THE CONTRACTOR SHALL INSTALL AT THE BEGINNING OF THE CONTRACT, AND MAINTAIN THROUGHOUT ITS DURATION, THE TREE / VEGETATION PROTECTION BARRIER AROUND THE EXISTING WETLAND AREAS / STREAM COURSE AREAS AS SHOWN. THE CONTRACTOR SHALL NOT DISTURB EXISTING WETLAND AREAS / STREAM COURSE AREAS WITHIN THE FENCED AREAS.
7. SIGN BACKGROUND WILL BE ORANGE WITH BLACK LETTERING. SIGN SHALL BE 3/4" OUTDOOR RATED PLYWOOD OR SIMILAR MATERIAL.



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REVISIONS			
DATE	DESCRIPTION	BY	SYM.



Canal Corporation



TITLE OF PROJECT THOMAS ROAD CULVERT REPLACEMENT	CONTRACT NUMBER: K24-10359171-NF
LOCATION OF PROJECT OLD ERIE CANAL TOWN OF WHITESTOWN, ONEIDA COUNTY	DATE: 09/24/2024
TITLE OF DRAWING MISCELLANEOUS DETAILS	DRAWING NUMBER: MD-2

FILE NAME : V:\Projects\NY\K5\073183.000\091.Design\Drawings\Hwy\Package 3 - Culvert Replacement near Thomas Road\073183.cph.mt.01.thomas.culver.t.dgn
DATE/TIME : 03-OCT-2024
USER :
DESIGN SUPERVISOR: LMM
DESIGNED BY: JLC
CHECKED BY: JLC
DRAFTED BY: JLC
CHECKED BY: LMM

ITEM 201.06 - CLEARING AND GRUBBING TABLE				
STATION	OFFSET	LENGTH (FT)	WIDTH (FT)	AREA (ACRE)
D 142+43 TO D 240+94	LT	9606	5	1.10
D 142+43 TO D 240+94	RT	9606	3	0.66
TOTAL				1.76

ITEM 209.13 - SILT FENCE (TEMPORARY) TABLE			
STATION TO STATION	SIDE	LENGTH (FEET)	REMARKS
D 226+60 TO D 227+06	RT	26	
D 226+99 TO D 227+14	RT	15	
D 228+03 TO D 228+18	RT	15	
D 228+10 TO D 228+75	RT	65	
D 226+60 TO D 227+36	LT	76	
D 227+33 TO D 227+53	LT	20	
D 227+76 TO D 227+88	LT	12	
D 227+75 TO D 228+75	RT	100	
TOTAL		329	

ITEM 607.41010010 - TEMPORARY PLASTIC BARRIER FENCE TABLE			
STATION TO STATION	SIDE	LENGTH (FEET)	REMARKS
D 226+60 TO D 227+00	RT	40	
D 228+15 TO D 228+75	RT	60	
D 226+60 TO D 228+75	LT	265	
TOTAL		365	

ITEM 607.43----12 - WOOD RAIL FENCE (THREE RAIL)			
STATION	OFFSET	LENGTH (FT)	REMARKS
D 155+42 TO D 156+12	RT	70	
D 160+98 TO D 161+62	LT	64	
D 160+98 TO D 161+62	RT	64	
D 226+60 TO D 228+75	LT	215	
D 226+60 TO D 228+75	RT	215	
TOTAL:		628	

AFFIXED ON:
9/24/2024

SIGNATURE:
STAMP:

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ITEM 614.060X02 - TREE REMOVAL TABLE							
LOCATION		QUANTITY					
		ITEM 614.060102	ITEM 614.060202	ITEM 614.060302	ITEM 614.060402	ITEM 614.060502	ITEM 614.060602
LATITUDE	LONGITUDE	EACH	EACH	EACH	EACH	EACH	EACH
43° 10' 29.54980"	75° 21' 13.66890"		2				
43° 10' 29.64150"	75° 21' 13.84320"		1				
43° 10' 30.51380"	75° 21' 15.14070"				1		
43° 10' 30.40830"	75° 21' 15.22860"				2		
43° 10' 30.55390"	75° 21' 15.30450"			1			
43° 10' 30.63220"	75° 21' 15.51380"			1			
43° 10' 31.24490"	75° 21' 16.75220"		1				
43° 10' 31.52440"	75° 21' 16.86010"		1				
43° 10' 31.62010"	75° 21' 17.08220"		1				
43° 10' 31.72510"	75° 21' 17.23440"						1
43° 10' 32.05130"	75° 21' 17.84260"						1
43° 10' 32.18340"	75° 21' 18.07090"		1				
43° 10' 32.25690"	75° 21' 18.19920"		1				
43° 10' 32.57030"	75° 21' 19.04470"			1			
43° 10' 32.71520"	75° 21' 19.23300"			3			
43° 10' 32.76280"	75° 21' 19.42330"			1			
43° 10' 32.76420"	75° 21' 19.35450"			2			
43° 10' 33.24200"	75° 21' 19.89120"		1				
43° 10' 33.07500"	75° 21' 19.93730"		1				
43° 10' 33.10950"	75° 21' 19.98000"	3					
43° 10' 33.50640"	75° 21' 20.47990"		1				
43° 10' 33.38550"	75° 21' 20.50560"			2			
43° 10' 33.38080"	75° 21' 20.48470"			2			
43° 10' 33.39830"	75° 21' 20.45300"		1				
43° 10' 33.61710"	75° 21' 20.90880"			1			
43° 10' 34.03060"	75° 21' 21.54070"			3			
43° 10' 34.21460"	75° 21' 21.74570"		2				
43° 10' 35.19020"	75° 21' 23.66640"			1			
43° 10' 35.49780"	75° 21' 24.02980"		1				
43° 10' 36.36480"	75° 21' 25.87320"			1			
43° 10' 36.68570"	75° 21' 26.03520"						1
43° 10' 36.89500"	75° 21' 26.62050"			1			
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43° 10' 38.02480"	75° 21' 28.54330"					1	
43° 10' 38.12090"	75° 21' 28.73330"				1		
43° 10' 38.16420"	75° 21' 28.79400"		1				
43° 10' 38.23970"	75° 21' 28.86730"		1				
43° 10' 38.28660"	75° 21' 28.90030"		1				
43° 10' 38.33260"	75° 21' 29.05750"		1				
43° 10' 38.35750"	75° 21' 29.16330"					2	
43° 10' 38.34120"	75° 21' 29.14660"			1			
43° 10' 38.40760"	75° 21' 29.30520"		1				
43° 10' 38.47360"	75° 21' 29.36020"		1				
43° 10' 38.67610"	75° 21' 29.75470"			1			
43° 10' 38.94080"	75° 21' 30.14370"			1			
43° 10' 38.99780"	75° 21' 30.36620"		1				
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43° 10' 39.53250"	75° 21' 31.10600"		1				
43° 10' 39.64520"	75° 21' 31.34470"				1		
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43° 10' 40.20850"	75° 21' 32.43900"	1					
43° 10' 40.24660"	75° 21' 32.38670"		1				
43° 10' 40.24100"	75° 21' 32.42870"		2				
43° 10' 40.47160"	75° 21' 32.98720"		1				
43° 10' 40.62250"	75° 21' 33.08250"				1		
43° 10' 40.88000"	75° 21' 33.62090"		1				
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43° 10' 41.89670"	75° 21' 35.49180"				1		
43° 10' 42.68670"	75° 21' 36.79980"			1			
43° 10' 42.84570"	75° 21' 36.98970"		1				
43° 10' 42.87750"	75° 21' 37.10900"		4				
43° 10' 42.99760"	75° 21' 37.37240"				1		
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43° 10' 43.80550"	75° 21' 38.54520"			1			
43° 10' 45.86530"	75° 21' 42.36900"			1			
43° 10' 46.18090"	75° 21' 42.99490"		1				

REVISIONS			
DATE	DESCRIPTION	BY	SYM.

ITEM 614.060X02 - TREE REMOVAL TABLE							
LOCATION		QUANTITY					
		ITEM 614.060102	ITEM 614.060202	ITEM 614.060302	ITEM 614.060402	ITEM 614.060502	ITEM 614.060602
LATITUDE	LONGITUDE	EACH	EACH	EACH	EACH	EACH	EACH
43° 10' 46.32310"	75° 21' 43.48670"			1			
43° 10' 47.26500"	75° 21' 45.29350"			1			
43° 10' 47.25390"	75° 21' 45.32250"				1		
43° 10' 47.24620"	75° 21' 45.58750"				1		
43° 10' 51.61070"	75° 21' 55.62210"			1			
43° 10' 51.76710"	75° 21' 55.82170"			1			
43° 10' 51.69910"	75° 21' 55.90730"			1			
43° 10' 52.43340"	75° 21' 57.40200"			1			
43° 10' 52.75530"	75° 21' 58.16200"		1				
43° 10' 52.80310"	75° 21' 58.27410"			1			
43° 10' 52.83530"	75° 21' 58.34950"		1				
43° 10' 52.91970"	75° 21' 58.82970"		1				
43° 10' 52.94270"	75° 21' 58.74360"		1				
43° 10' 53.26630"	75° 21' 59.36330"			1			
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43° 10' 53.86510"	75° 22' 1.04670"	1					
43° 10' 53.96280"	75° 22' 1.12270"	1					
43° 10' 54.14900"	75° 22' 1.41430"			1			
43° 10' 54.99400"	75° 22' 3.58550"		1				
43° 10' 55.30730"	75° 22' 4.14990"		2				
43° 10' 55.37380"	75° 22' 4.29790"		1				
43° 10' 55.67680"	75° 22' 5.01060"		1				
43° 10' 56.59280"	75° 22' 7.46340"		2				
43° 10' 57.23110"	75° 22' 9.09710"		1				
43° 10' 57.42100"	75° 22' 9.23280"		1				
43° 10' 58.01400"	75° 22' 10.37830"		1				
43° 10' 58.35590"	75° 22' 11.23660"					1	
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43° 11' 0.95970"	75° 22' 17.61620"		1				
43° 11' 1.08130"	75° 22' 17.59630"		1				
43° 11' 6.01810"	75° 22' 30.46390"			1			
43° 11' 6.00770"	75° 22' 30.61510"			1			
43° 11' 6.26460"	75° 22' 30.98700"			1			
43° 11' 6.80410"	75° 22' 33.56240"	1					
43° 11' 6.96360"	75° 22' 34.50250"		1				
43° 11' 7.45780"	75° 22' 36.77160"					1	
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43° 11' 8.43790"	75° 22' 41.83440"					1	
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43° 11' 8.85740"	75° 22' 44.00460"			1			
43° 11' 8.92120"	75° 22' 44.48850"			1			
43° 11' 9.32940"	75° 22' 46.29290"		1				
43° 11' 9.31850"	75° 22' 46.37060"		1				
43° 11' 9.34650"	75° 22' 46.50970"		1				
43° 11' 9.39880"	75° 22' 46.84560"			1			
43° 11' 9.37800"	75° 22' 47.06500"		1				
43° 11' 10.01260"	75° 22' 50.41120"	1					
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43° 11' 10.60640"	75° 22' 53.21140"		1				
43° 11' 10.84810"	75° 22' 54.51290"						1
43° 11' 11.06720"	75° 22' 55.64360"			2			
43° 11' 11.50880"	75° 22' 57.85750"		1				
43° 11' 11.61010"	75° 22' 58.19670"		1				
43° 11' 11.58150"	75° 22' 58.24160"		1				
43° 11' 11.71130"	75° 22' 58.74210"		1				
43° 11' 11.87450"	75° 22' 59.90070"			1			
43° 11' 12.76180"	75° 23' 4.72370"			1			
TOTALS		9	59	55	13	11	5
ITEM 614.060102 - TREE REMOVAL OVER 4 INCHES TO 6 INCHES DIAMETER BREAST HEIGHT - STUMPS CUT FLUSH							
ITEM 614.060202 - TREE REMOVAL OVER 6 INCHES TO 12 INCHES DIAMETER BREAST HEIGHT - STUMPS CUT FLUSH							
ITEM 614.060302 - TREE REMOVAL OVER 12 INCHES TO 18 INCHES DIAMETER BREAST HEIGHT - STUMPS CUT FLUSH							
ITEM 614.060402 - TREE REMOVAL OVER 18 INCHES TO 24 INCHES DIAMETER BREAST HEIGHT - STUMPS CUT FLUSH							
ITEM 614.060502 - TREE REMOVAL OVER 24 INCHES TO 36 INCHES DIAMETER BREAST HEIGHT - STUMPS CUT FLUSH							
ITEM 614.060602 - TREE REMOVAL OVER 36 INCHES TO 48 INCHES DIAMETER BREAST HEIGHT - STUMPS CUT FLUSH							

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DATE/TIME = 03-OCT-2024
USER = 7558

CHECKED BY: LMM

DRAFTED BY: JLC

CHECKED BY:

DESIGNED BY: JLC

DESIGN SUPERVISOR: LMM

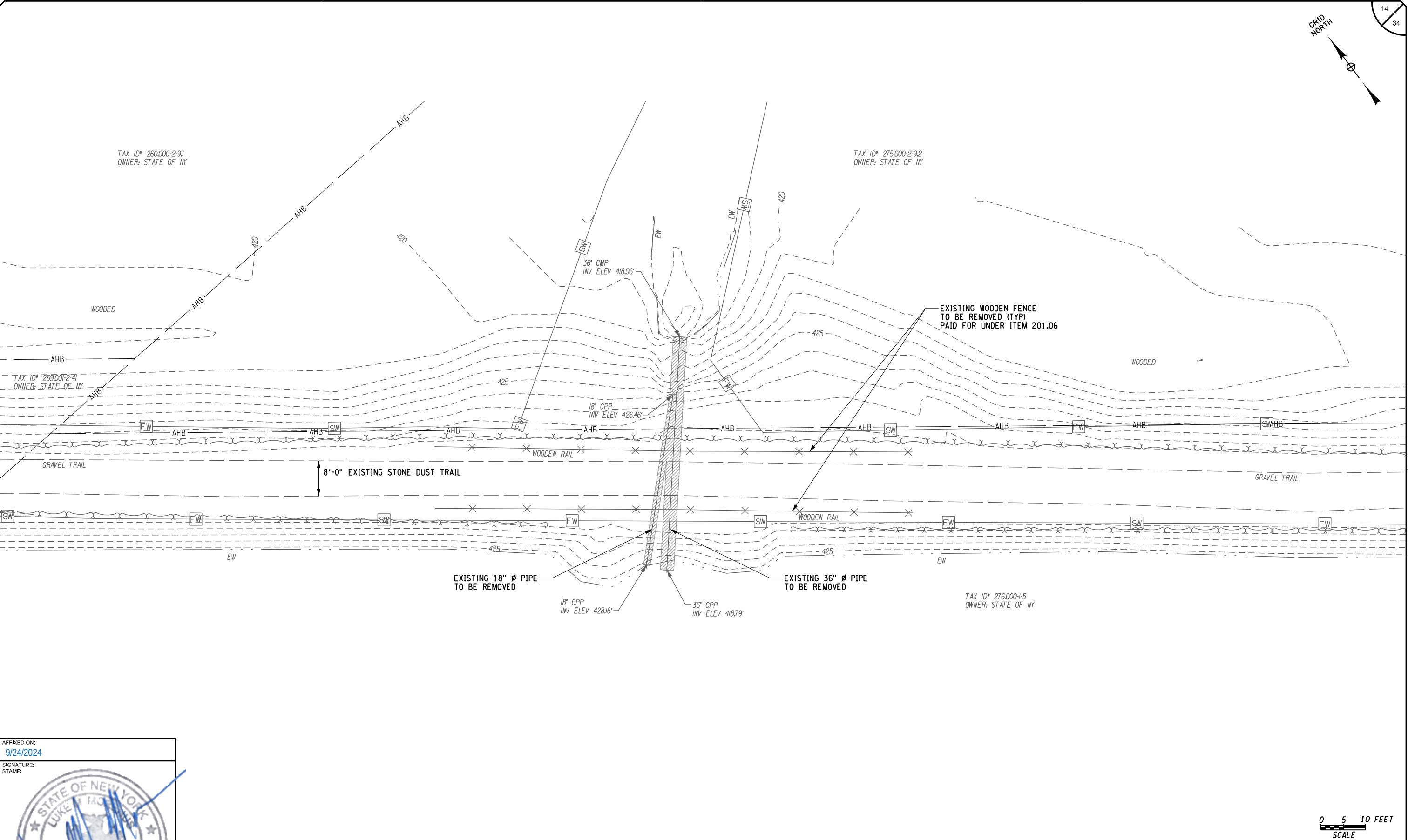
AFFIXED ON:
9/24/2024

SIGNATURE:
STAMP:

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE. THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REVISIONS			
DATE	DESCRIPTION	BY	SYMBOL

TITLE OF PROJECT THOMAS ROAD CULVERT REPLACEMENT	CONTRACT NUMBER: K24-10359171-NF
LOCATION OF PROJECT OLD ERIE CANAL TOWN OF WHITESTOWN, ONEIDA COUNTY	DATE: 09/24/2024
TITLE OF DRAWING THOMAS ROAD CULVERT EXISTING CONDITIONS	DRAWING NUMBER: EX-1



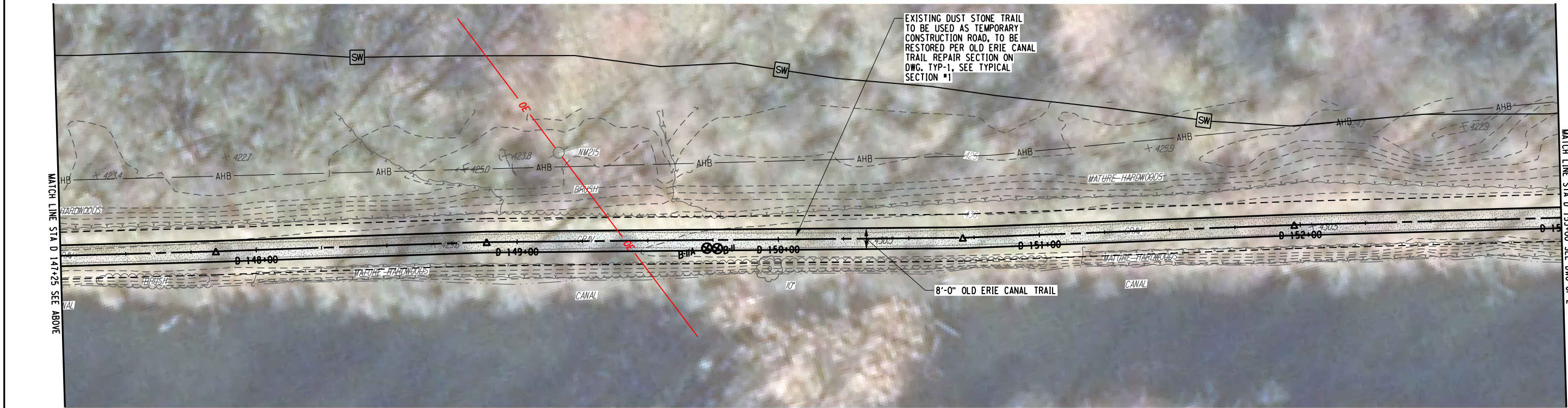
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DATE/TIME : 07-OCT-2024
USER : 7558
DESIGN SUPERVISOR: LMM

CHECKED BY: LMM

DRAFTED BY: JLC

CHECKED BY: JLC

DESIGNED BY: JLC



AFFIXED ON: 9/24/2024

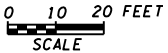
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LEGEND	
	SHOULDER GRADED LINE (SEE TABLE ON DWG. TYP-1)
	CRUSHER RUN LIMESTONE TRAIL, ITEM 304.07010012
	SHOULDER GRADED LINE (SEE TABLE ON DWG. TYP-1)

NOTES:

- THE CONTRACTOR SHALL BE AWARE THAT THE ENTIRE TRAIL REPAIR AREA IS WITHIN THE NY STATE REGULATED WETLAND CHECKZONE.
- CLEARING AND GRUBBING OPERATIONS SHALL TAKE PLACE WITHIN THE TRAIL SHOULDER BREAKS, AND AOB.



REVISIONS			
DATE	DESCRIPTION	BY	SYM.

 Canal Corporation	TITLE OF PROJECT THOMAS ROAD CULVERT REPLACEMENT	CONTRACT NUMBER: K24-10359171-NF
	LOCATION OF PROJECT OLD ERIE CANAL TOWN OF WHITESTOWN, ONEIDA COUNTY	DATE: 09/24/2024
	TITLE OF DRAWING GENERAL PLAN STA D 142+00 TO STA D 153+00	DRAWING NUMBER: GP-1

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DATE/TIME : 07-OCT-2024
USER : 7558
DESIGN SUPERVISOR: LMM

CHECKED BY: LMM

DRAFTED BY: JLC

CHECKED BY: JLC

DESIGNED BY: JLC

AFFIXED ON:
9/24/2024

SIGNATURE:
STAMP:

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LEGEND

SHOULDER GRADED LINE
(SEE TABLE ON DWG. TYP-1)

CRUSHER RUN LIMESTONE TRAIL,
ITEM 304.07010012

SHOULDER GRADED LINE
(SEE TABLE ON DWG. TYP-1)

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REVISIONS			
DATE	DESCRIPTION	BY	SYM.

NEW YORK

STATE OF OPPORTUNITY

Canal Corporation

TITLE OF PROJECT
THOMAS ROAD CULVERT REPLACEMENT

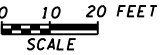
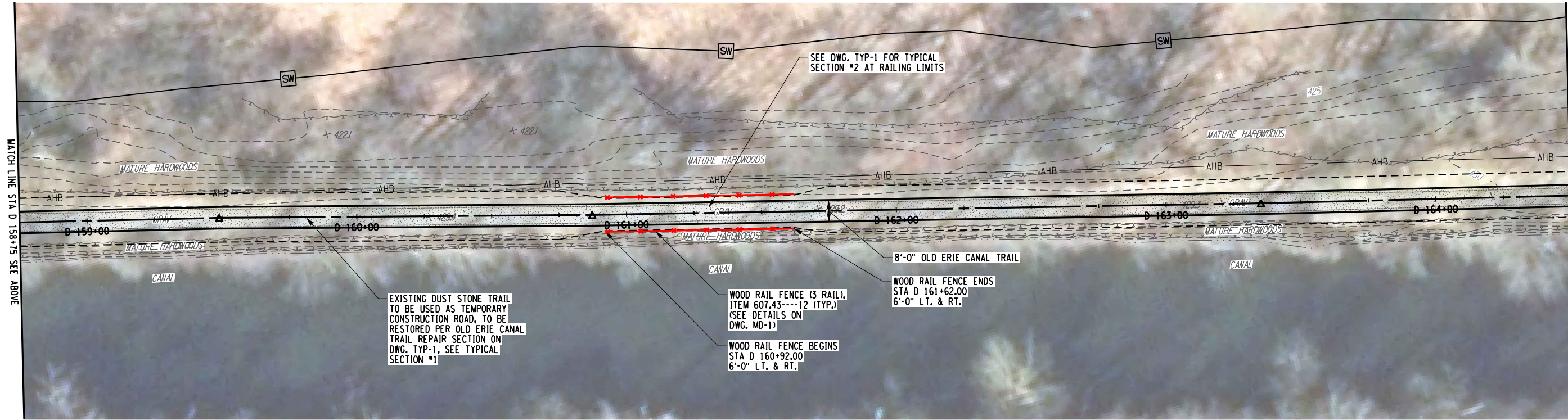
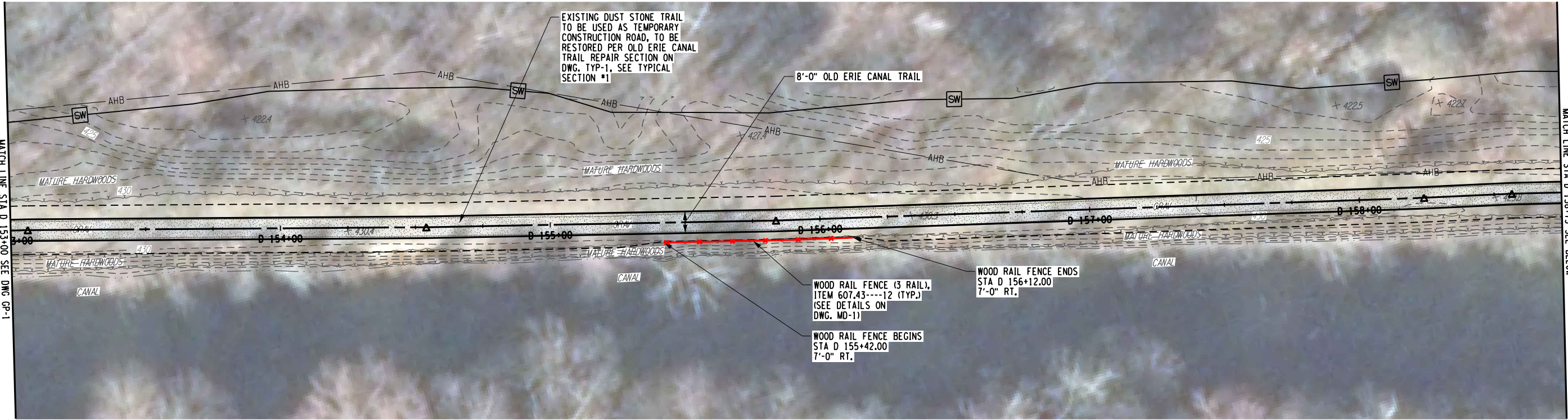
LOCATION OF PROJECT
OLD ERIE CANAL
TOWN OF WHITESTOWN, ONEIDA COUNTY

TITLE OF DRAWING
GENERAL PLAN
STA D 153+00 TO STA D 164+50

CONTRACT NUMBER:
K24-10359171-NF

DATE:
09/24/2024

DRAWING NUMBER:
GP-2



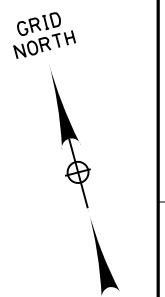
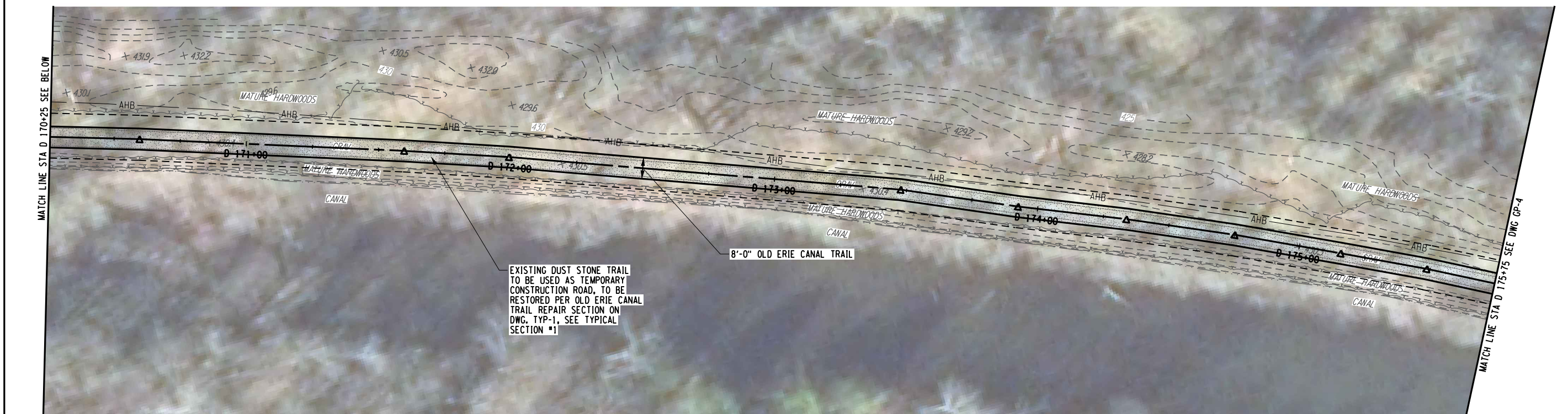
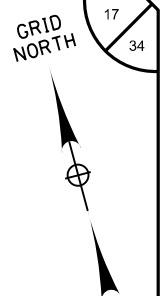
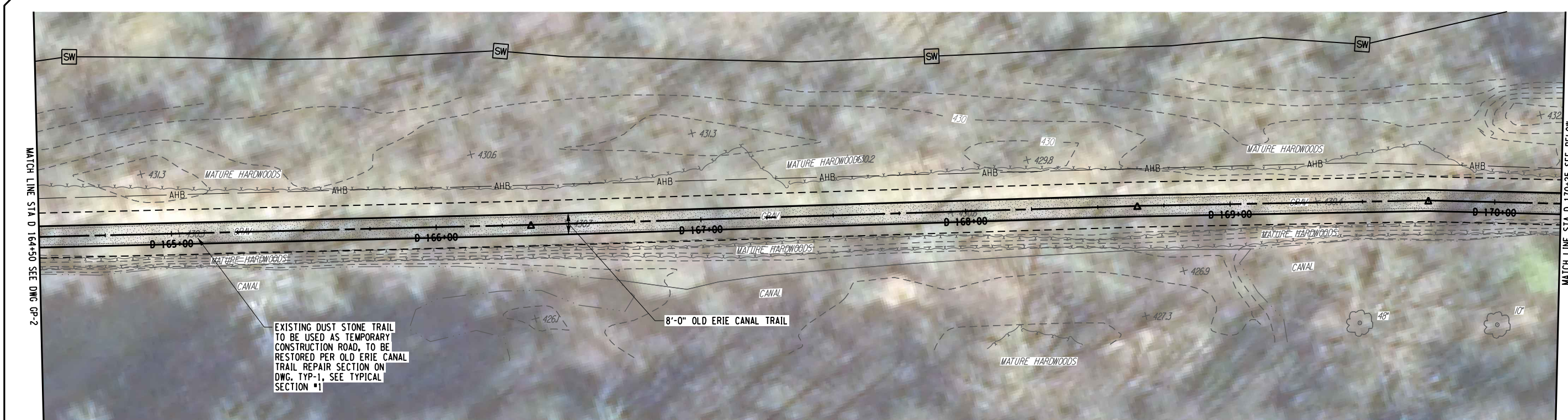
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DATE/TIME : 07-OCT-2024
USER :
DESIGN SUPERVISOR: LMM

CHECKED BY: LMM

DRAFTED BY: JLC

CHECKED BY: JLC

DESIGNED BY: JLC



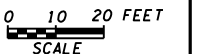
AFFIXED ON:
9/24/2024

SIGNATURE:
STAMP:

LEGEND

- SHOULDER GRADED LINE (SEE TABLE ON DWG. TYP-1)
- CRUSHER RUN LIMESTONE TRAIL, ITEM 304.07010012
- SHOULDER GRADED LINE (SEE TABLE ON DWG. TYP-1)

- NOTES:**
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	DATE	DESCRIPTION	BY	SYMBOL		LOCATION OF PROJECT OLD ERIE CANAL TOWN OF WHITESTOWN, ONEIDA COUNTY	DATE: 09/24/2024
						TITLE OF DRAWING GENERAL PLAN STA D 164+50 TO STA D 175+75	DRAWING NUMBER: GP-3

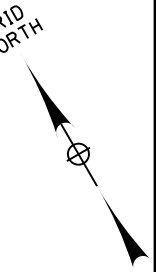
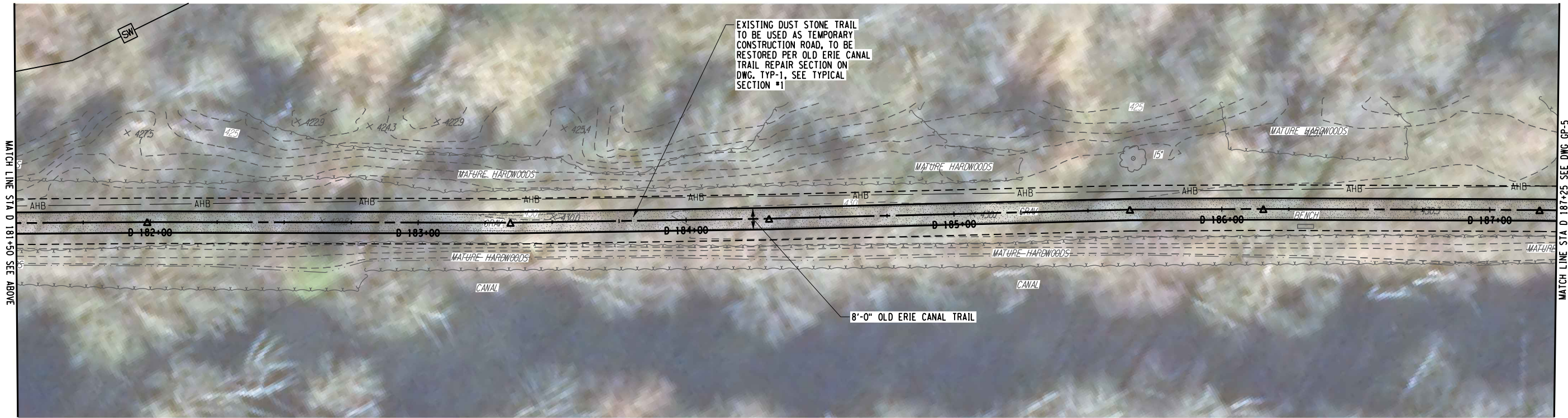
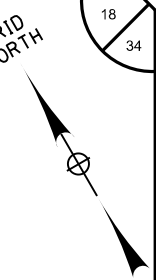
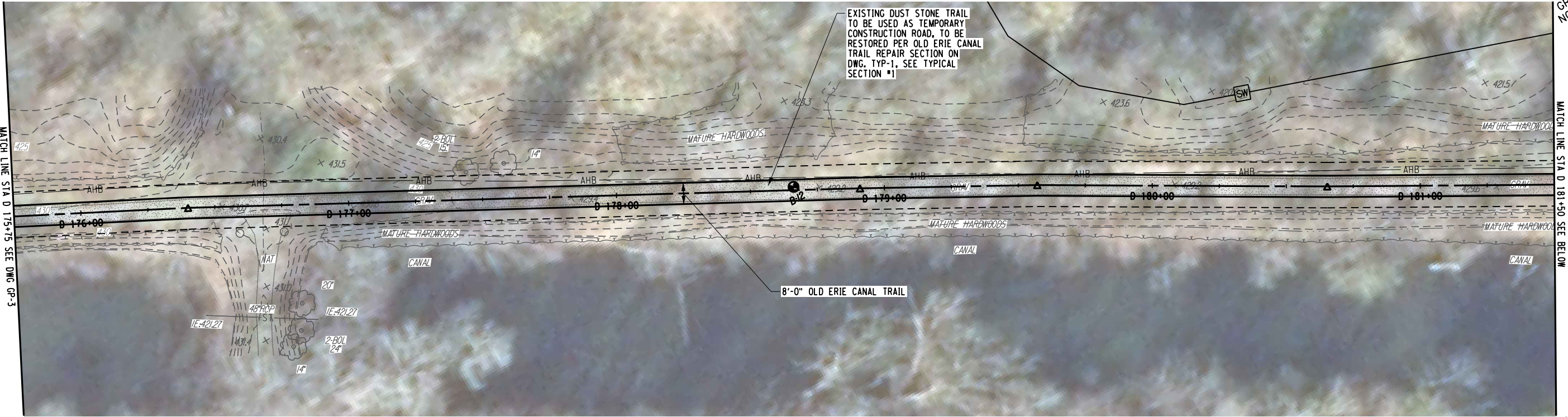
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DATE/TIME : 07-OCT-2024
USER : 7558
DESIGN SUPERVISOR: LMM

CHECKED BY: LMM

DRAFTED BY: JLC

CHECKED BY: JLC

DESIGNED BY: JLC



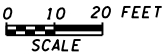
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STAMP: [Professional Engineer Seal for Luke J. Macdonald, State of New York, License No. 079357]

LEGEND	
	SHOULDER GRADED LINE (SEE TABLE ON DWG. TYP-1)
	CRUSHER RUN LIMESTONE TRAIL, ITEM 304.07010012
	SHOULDER GRADED LINE (SEE TABLE ON DWG. TYP-1)

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REVISIONS			
DATE	DESCRIPTION	BY	SYM.

 Canal Corporation	TITLE OF PROJECT THOMAS ROAD CULVERT REPLACEMENT	CONTRACT NUMBER: K24-10359171-NF
	LOCATION OF PROJECT OLD ERIE CANAL TOWN OF WHITESTOWN, ONEIDA COUNTY	DATE: 09/24/2024
	TITLE OF DRAWING GENERAL PLAN STA D 175+75 TO STA D 187+25	DRAWING NUMBER: GP-4

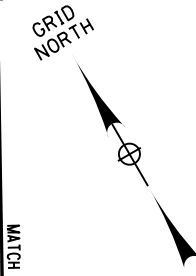
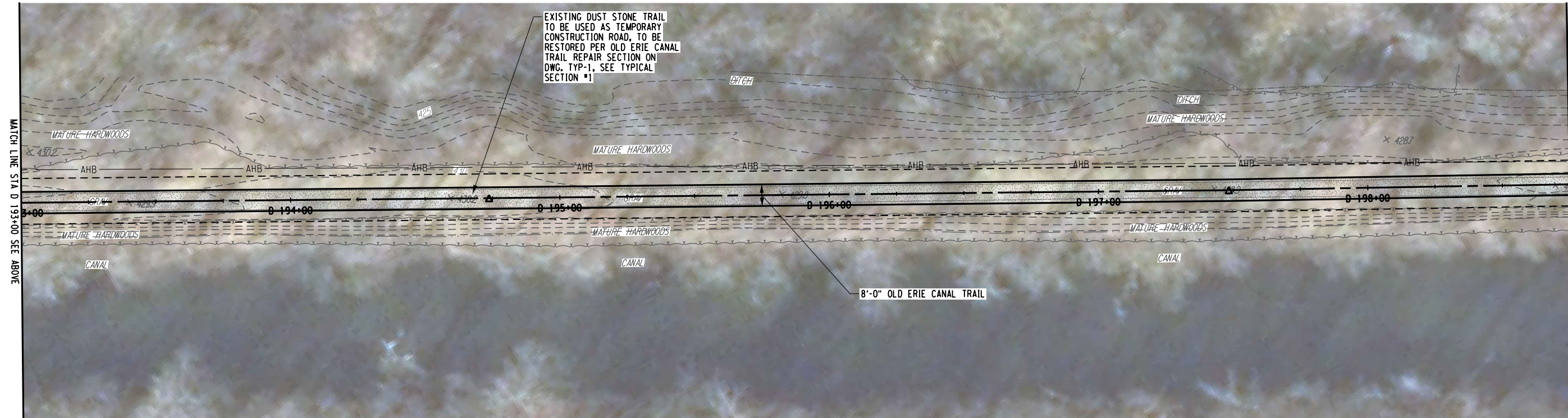
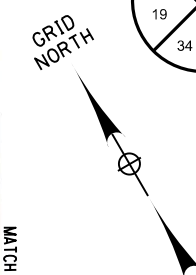
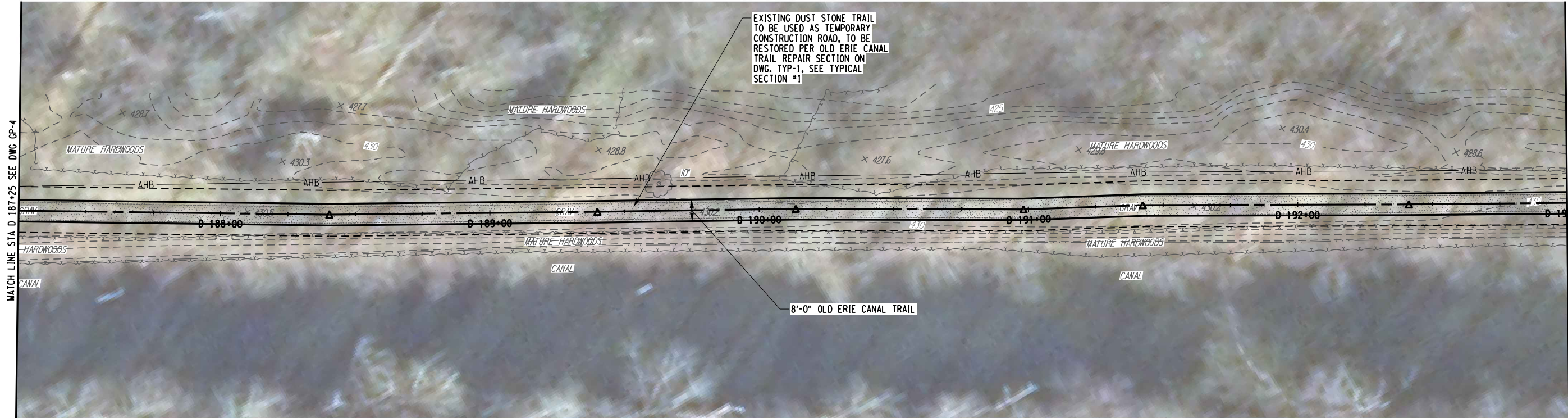
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USER : 7568
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CHECKED BY: LMM

DRAFTED BY: JLC

CHECKED BY:

DESIGNED BY: JLC



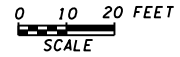
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LEGEND	
	SHOULDER GRADED LINE (SEE TABLE ON DWG. TYP-1)
	CRUSHER RUN LIMESTONE TRAIL, ITEM 304.07010012
	SHOULDER GRADED LINE (SEE TABLE ON DWG. TYP-1)

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REVISIONS			
DATE	DESCRIPTION	BY	SYM.

TITLE OF PROJECT THOMAS ROAD CULVERT REPLACEMENT	CONTRACT NUMBER: K24-10359171-NF
LOCATION OF PROJECT OLD ERIE CANAL TOWN OF WHITESTOWN, ONEIDA COUNTY	DATE: 09/24/2024
TITLE OF DRAWING GENERAL PLAN STA D 187+25 TO STA D 198+75	DRAWING NUMBER: GP-5

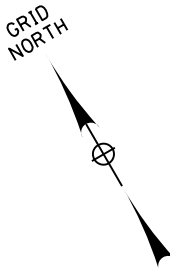
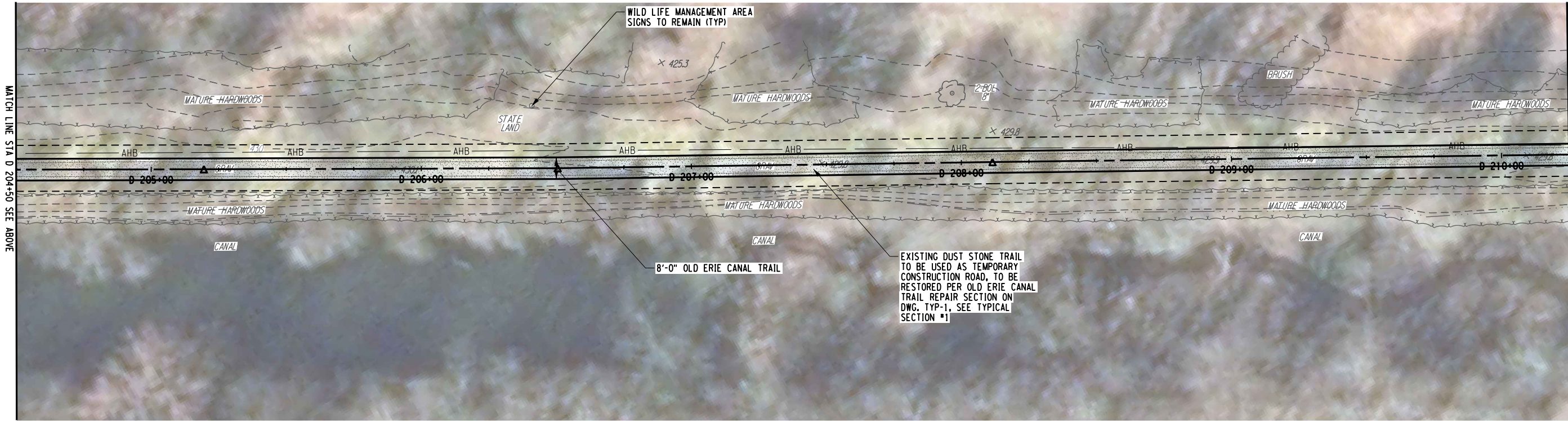
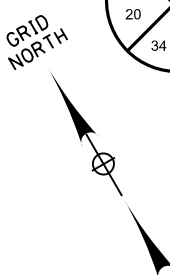
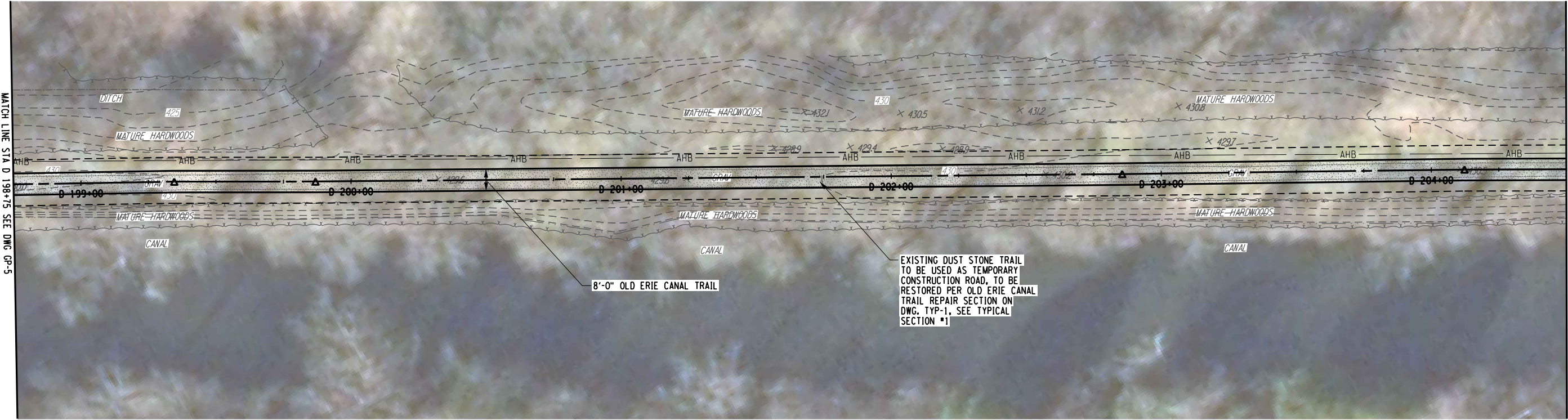
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DATE/TIME : 07-OCT-2024
USER : 7558
DESIGN SUPERVISOR: LMM

CHECKED BY: LMM

DRAFTED BY: JLC

CHECKED BY:

DESIGNED BY: JLC



AFFIXED ON: 9/24/2024

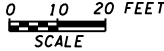
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LEGEND	
	SHOULDER GRADED LINE (SEE TABLE ON DWG. TYP-1)
	CRUSHER RUN LIMESTONE TRAIL, ITEM 304.07010012
	SHOULDER GRADED LINE (SEE TABLE ON DWG. TYP-1)

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REVISIONS			
DATE	DESCRIPTION	BY	SYM.

 Canal Corporation	TITLE OF PROJECT THOMAS ROAD CULVERT REPLACEMENT	CONTRACT NUMBER: K24-10359171-NF
	LOCATION OF PROJECT OLD ERIE CANAL TOWN OF WHITESTOWN, ONEIDA COUNTY	DATE: 09/24/2024
	TITLE OF DRAWING GENERAL PLAN STA D 198+75 TO STA D 210+25	DRAWING NUMBER: GP-6

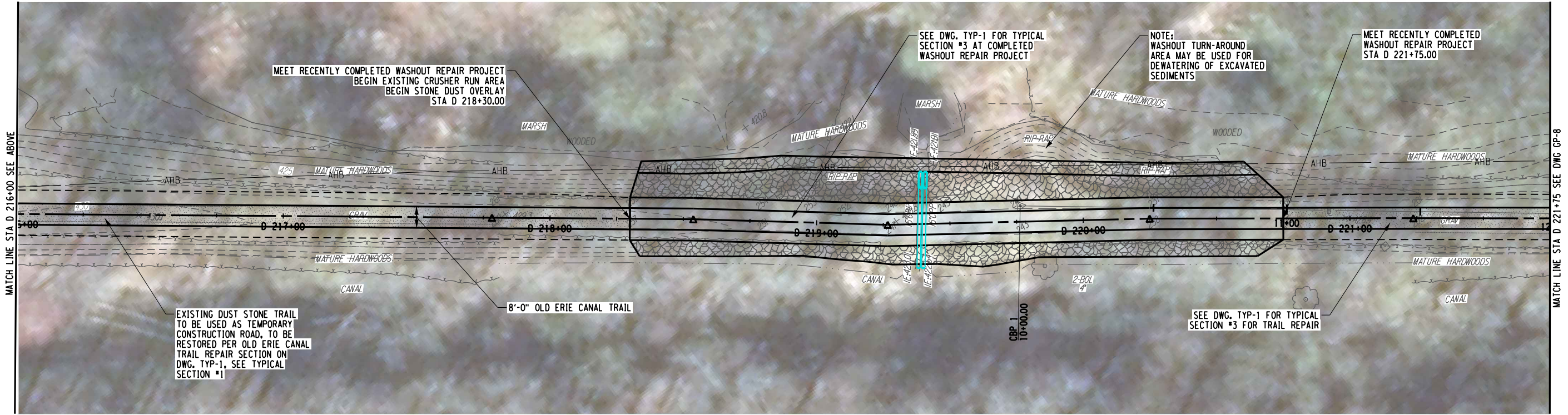
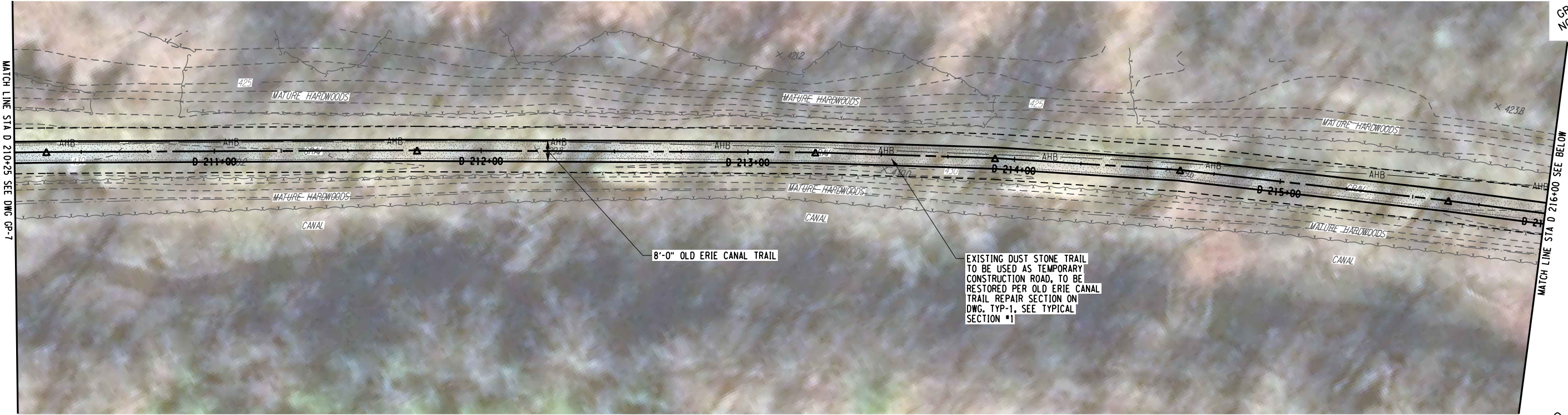
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CHECKED BY: LMM

DRAFTED BY: JLC

CHECKED BY: JLC

DESIGNED BY: JLC



AFFIXED ON: 9/24/2024

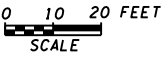
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LEGEND

- SHOULDER GRADED LINE (SEE TABLE ON DWG. TYP-1)
- CRUSHER RUN LIMESTONE TRAIL, ITEM 304.07010012
- SHOULDER GRADED LINE (SEE TABLE ON DWG. TYP-1)

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REVISIONS			
DATE	DESCRIPTION	BY	SYM.

Canal Corporation

TITLE OF PROJECT THOMAS ROAD CULVERT REPLACEMENT	CONTRACT NUMBER: K24-10359171-NF
LOCATION OF PROJECT OLD ERIE CANAL TOWN OF WHITESTOWN, ONEIDA COUNTY	DATE: 09/24/2024
TITLE OF DRAWING GENERAL PLAN STA D 210+25 TO STA D 221+75	DRAWING NUMBER: GP-7

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DATE/TIME : 07-OCT-2024
USER : 7558

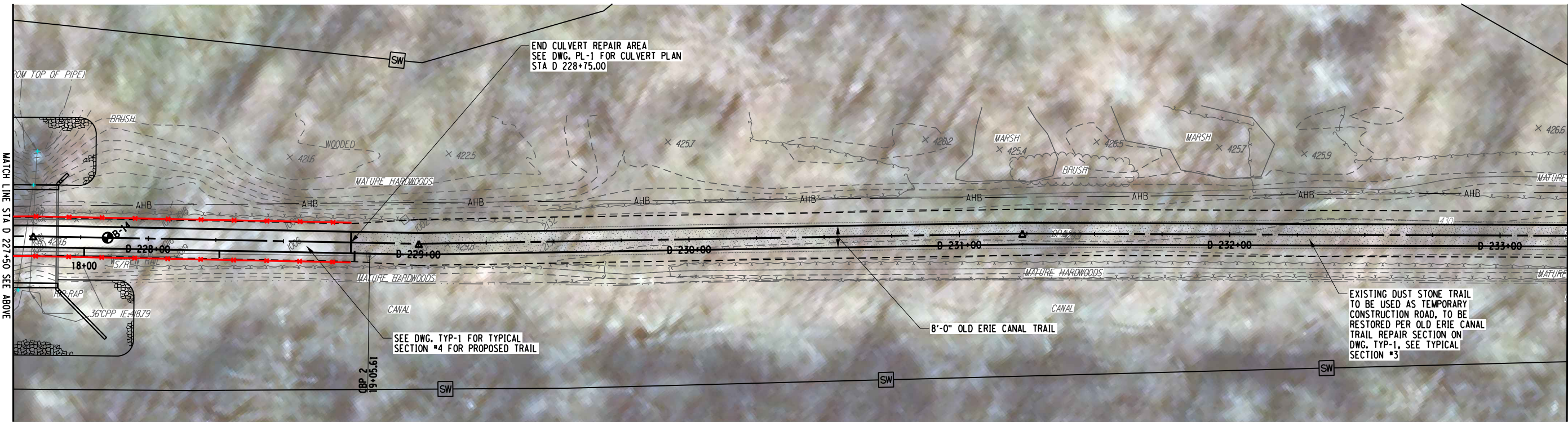
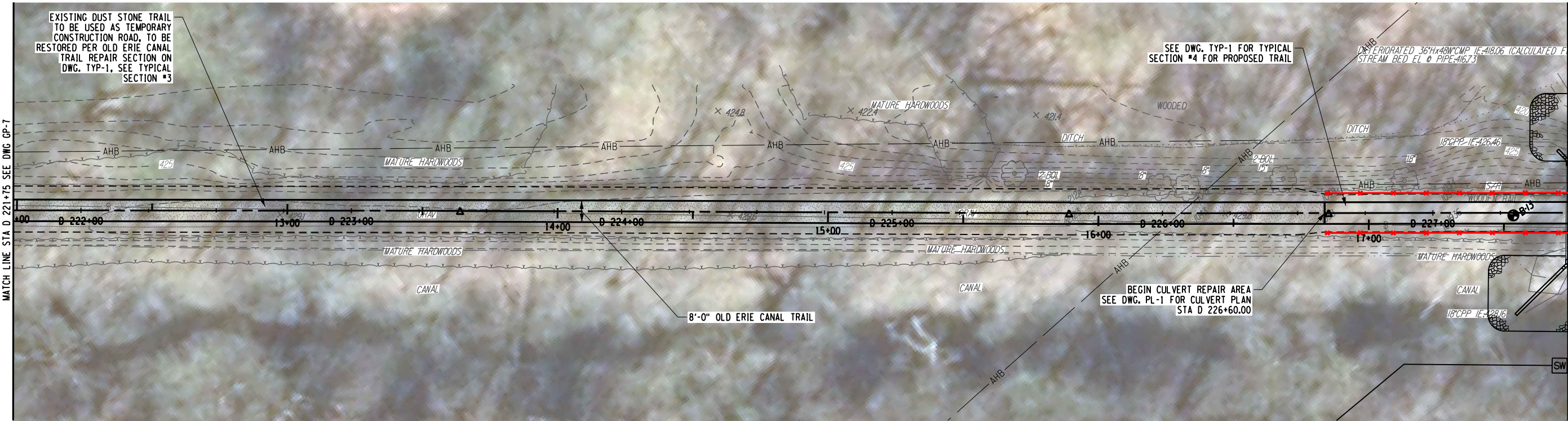
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DESIGN SUPERVISOR: LMM



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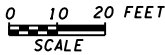
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LEGEND

- SHOULDER GRADED LINE (SEE TABLE ON DWG. TYP-1)
- CRUSHER RUN LIMESTONE TRAIL, ITEM 304.07010012
- SHOULDER GRADED LINE (SEE TABLE ON DWG. TYP-1)

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	DATE	DESCRIPTION	BY	SYMBOL		LOCATION OF PROJECT OLD ERIE CANAL TOWN OF WHITESTOWN, ONEIDA COUNTY	DATE: 09/24/2024
						TITLE OF DRAWING GENERAL PLAN STA D 221+75 TO STA D 233+25	DRAWING NUMBER: GP-8

FILE NAME : V:\Projects\NY\K5\073183.000\09.Design\Drawings\Hwy\Package 3 - Culvert Replacement near Thomas Road\073183.sph_large.plt_09_reber-to-thomas.dgn
DATE/TIME : 07-OCT-2024
USER : 7558
DESIGN SUPERVISOR: LMM

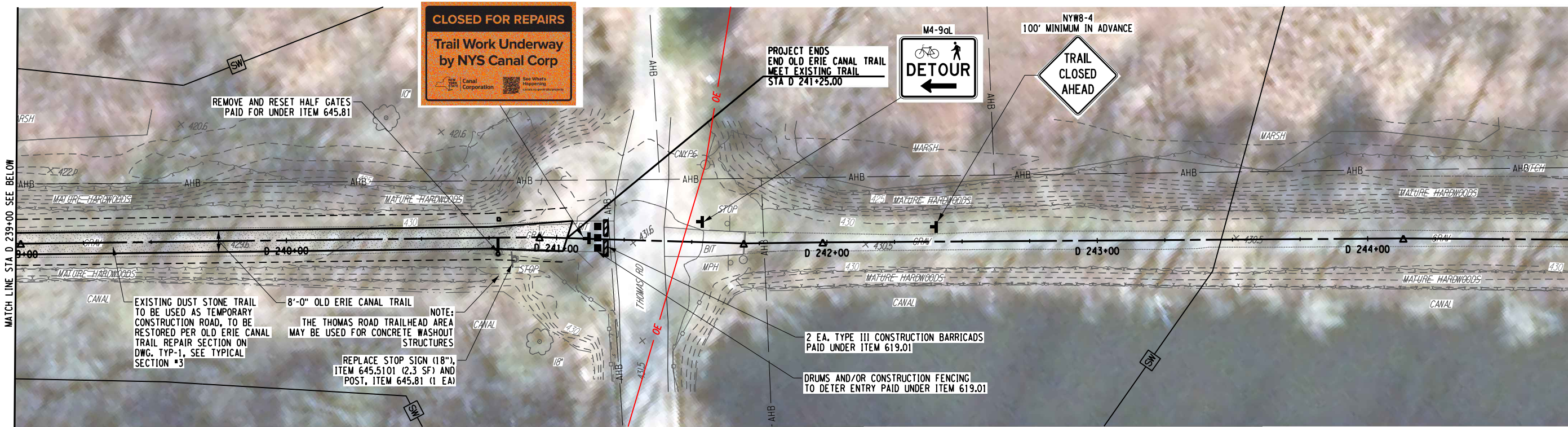
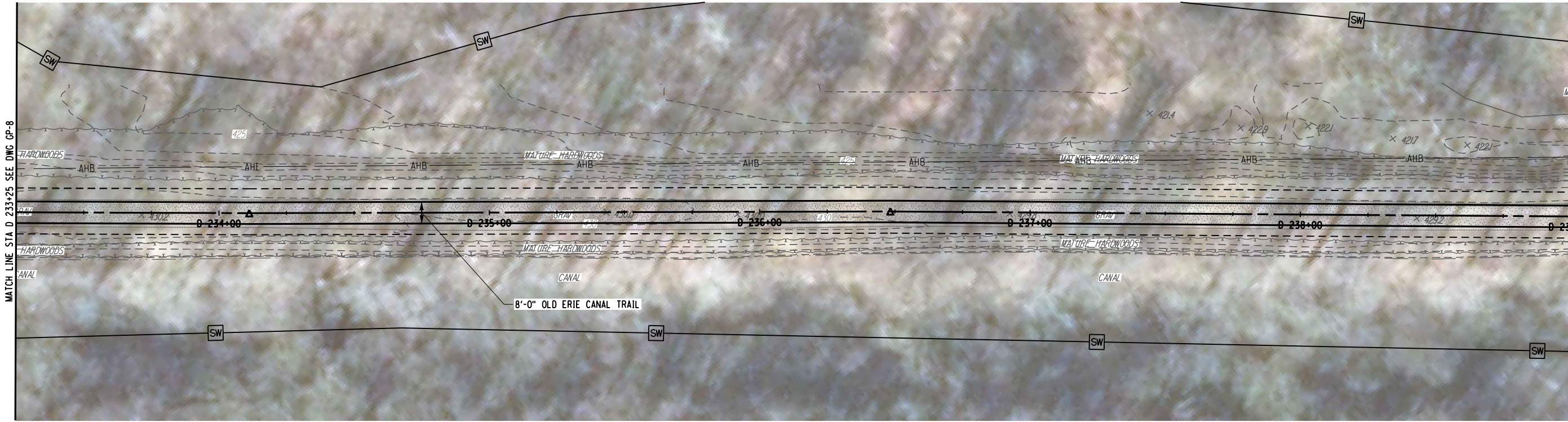
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DESIGNED BY: JLC

DESIGN SUPERVISOR: LMM



AFFIXED ON: 9/24/2024

SIGNATURE: [Signature]

STAMP: [Professional Engineer Seal]

LEGEND

- SHOULDER GRADED LINE (SEE TABLE ON DWG. TYP-1)
- CRUSHER RUN LIMESTONE TRAIL, ITEM 304.07010012
- SHOULDER GRADED LINE (SEE TABLE ON DWG. TYP-1)

- NOTES:**
- THE CONTRACTOR SHALL BE AWARE THAT THE ENTIRE TRAIL REPAIR AREA IS WITHIN THE NY STATE REGULATED WETLAND CHECKZONE.
 - CLEARING AND GRUBBING OPERATIONS SHALL TAKE PLACE WITHIN THE TRAIL SHOULDER BREAKS, AND AOB.

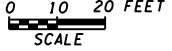
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REVISIONS			
DATE	DESCRIPTION	BY	SYM.

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TITLE OF PROJECT THOMAS ROAD CULVERT REPLACEMENT	CONTRACT NUMBER: K24-10359171-NF
LOCATION OF PROJECT OLD ERIE CANAL TOWN OF WHITESTOWN, ONEIDA COUNTY	DATE: 09/24/2024
TITLE OF DRAWING GENERAL PLAN STA D 233+25 TO STA D 244+75	DRAWING NUMBER: GP-9



FILE NAME : V:\Projects\NY\K5\073183\000\091\Design\Drawings\Hwy\Package 3 - Culvert Replacement near Thomas Road\073183.sph.plt.01.thomas.culvert.dgn
DATE/TIME : 03-OCT-2024 15:58
USER : 7558
DESIGN SUPERVISOR: LMM

CHECKED BY: LMM

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REVISIONS			
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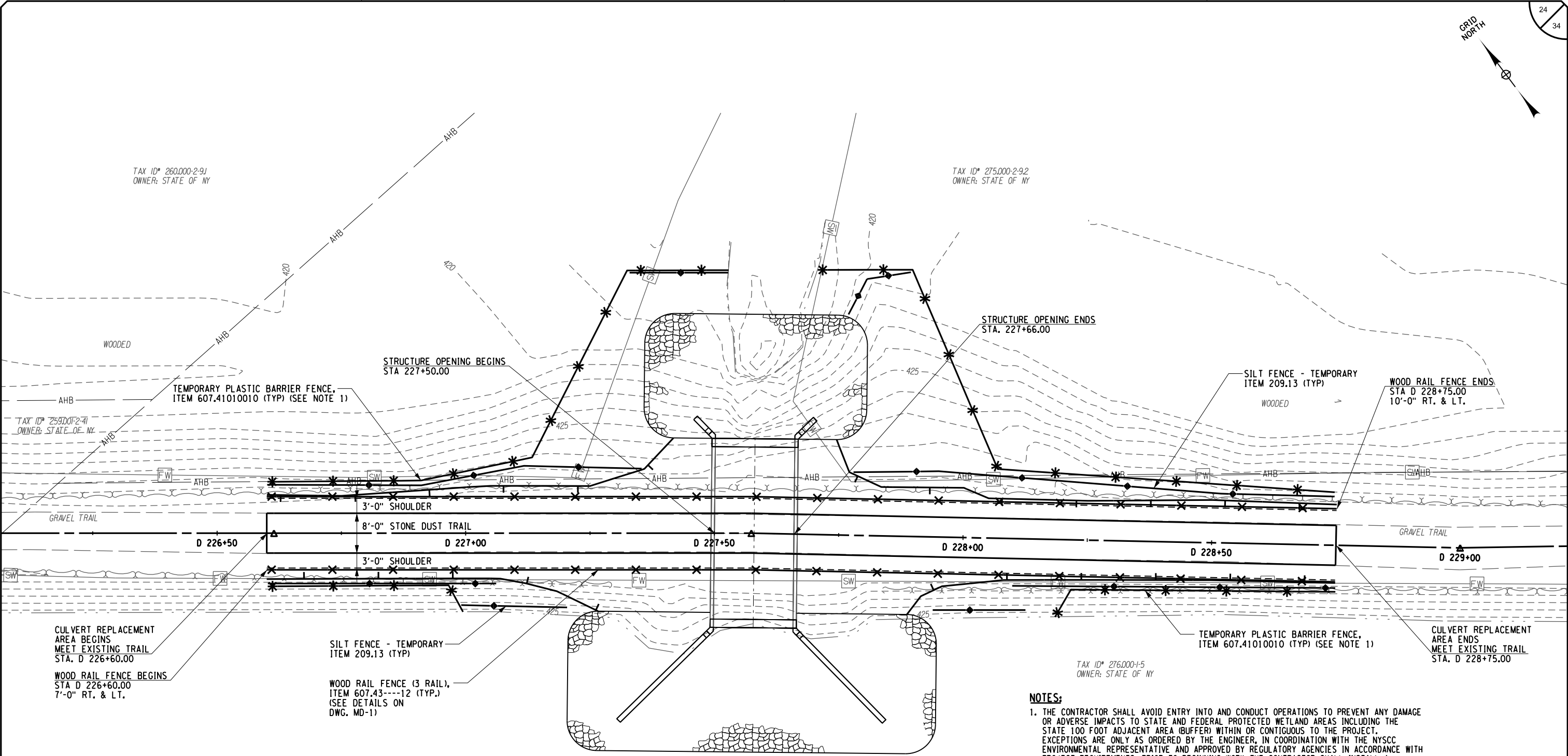


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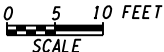


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TITLE OF PROJECT THOMAS ROAD CULVERT REPLACEMENT	CONTRACT NUMBER: K24-10359171-NF
LOCATION OF PROJECT OLD ERIE CANAL TOWN OF WHITESTOWN, ONEIDA COUNTY	DATE: 09/24/2024
TITLE OF DRAWING CULVERT PLAN	DRAWING NUMBER: PL-1



- NOTES:**
1. THE CONTRACTOR SHALL AVOID ENTRY INTO AND CONDUCT OPERATIONS TO PREVENT ANY DAMAGE OR ADVERSE IMPACTS TO STATE AND FEDERAL PROTECTED WETLAND AREAS INCLUDING THE STATE 100 FOOT ADJACENT AREA (BUFFER) WITHIN OR CONTIGUOUS TO THE PROJECT. EXCEPTIONS ARE ONLY AS ORDERED BY THE ENGINEER, IN COORDINATION WITH THE NYSCC ENVIRONMENTAL REPRESENTATIVE AND APPROVED BY REGULATORY AGENCIES IN ACCORDANCE WITH PROJECT REQUIREMENTS. PRIOR TO BEGINNING WORK THE CONTRACTOR SHALL INSTALL A DEMARCATION BARRIER (E.G., ORANGE SNOW FENCE) AND PROTECTED AREA SIGNS BETWEEN WETLANDS NOT TO BE DISTURBED AND THE AREA OF WORK AS SHOWN ON THE PLANS OR AS NEEDED BASED ON FIELD CONDITIONS, WHICHEVER PROVIDES THE MOST EFFECTIVE CONTROL AS DETERMINED BY THE ENGINEER IN COORDINATION WITH THE NYSCC ENVIRONMENTAL REPRESENTATIVE. EXAMPLES OF ACTIVITIES WHICH ARE NOT TO ENCROACH ON WETLANDS INCLUDE, BUT ARE NOT LIMITED TO, MOVEMENT OF VEHICLES, CONSTRUCTION STAGING, IMPLEMENTATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PLACEMENT OF ANY FILL MATERIAL. THE PROTECTIVE FENCE SHALL BE MAINTAINED UNTIL PROJECT COMPLETION AND THEN REMOVED. FENCING SHALL ADHERE TO NYSDOT SPECIFICATIONS FOR ITEM 607.41010010.
 2. SEE DWG. ST-5 FOR STRUCTURAL EXCAVATION AND CULVERT EROSION CONTROL.
 3. THE CONTRACTOR SHALL BE AWARE THAT THE ENTIRE CULVERT REPLACEMENT WORK AREA IS WITHIN THE 100-FOOT WETLAND BUFFER AREA.
 4. DOWNSTREAM FLOWS MUST BE MAINTAINED THROUGHOUT THE PROJECT AND ANY BYPASS PUMPING WILL NEED TO DISCHARGE AT THE DOWNSTREAM END OF THE WORK AREA AND NOT CREATE SCOUR OR SEDIMENT TRANSPORT.



FILE NAME : V:\Projects\NY\K5\073183\000\09\Design\Drawings\Hwy\Package 3 - Culvert Replacement near Thomas Road\073183.cph.pro.01.thomes.culvert.dgn
DATE/TIME : 03-OCT-2024
USER : 7558

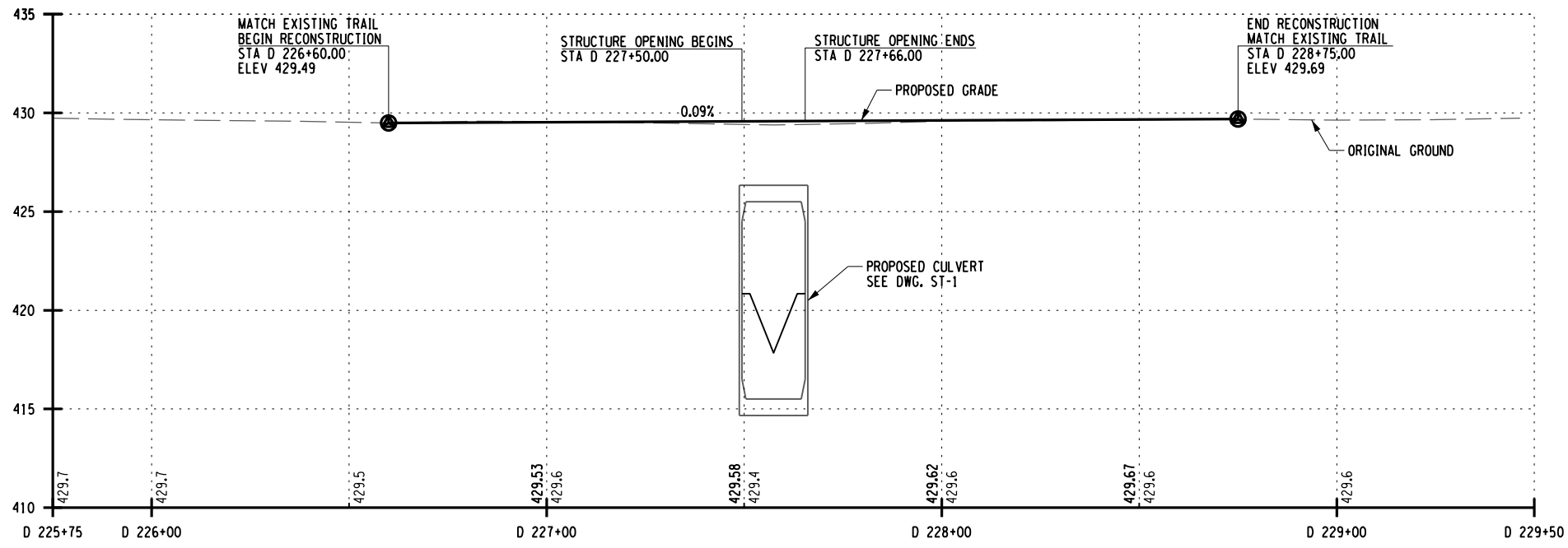
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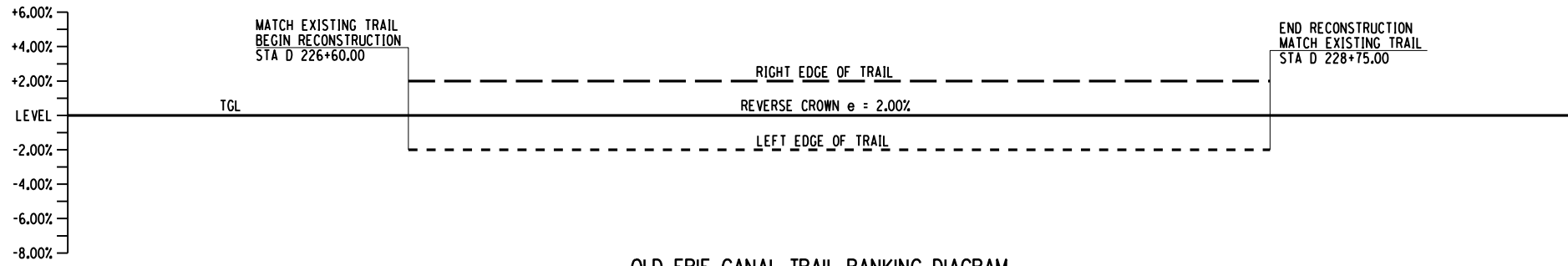
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DESIGN SUPERVISOR:



OLD ERIE CANAL TRAIL (THOMAS ROAD CULVERT) PROFILE



OLD ERIE CANAL TRAIL BANKING DIAGRAM

AFFIXED ON:
9/24/2024

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REVISIONS			
DATE	DESCRIPTION	BY	SYMBOL

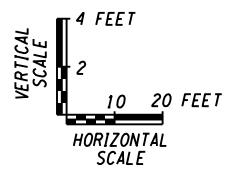


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TITLE OF PROJECT THOMAS ROAD CULVERT REPLACEMENT	CONTRACT NUMBER: K24-10359171-NF
LOCATION OF PROJECT OLD ERIE CANAL TOWN OF WHITESTOWN, ONEIDA COUNTY	DATE: 09/24/2024
TITLE OF DRAWING PROFILE	DRAWING NUMBER: PR-1



FILE NAME : V:\Projects\ANY\K5\073183.000\091.Design\Drawings\Hwy\Package 3 - Culvert Replacement near Thomas Road\073183.cph.es.01.thomas.culvert.dgn
DATE/TIME : 03-OCT-2024
USER : 7558
DESIGN SUPERVISOR: LMM

CHECKED BY: LMM

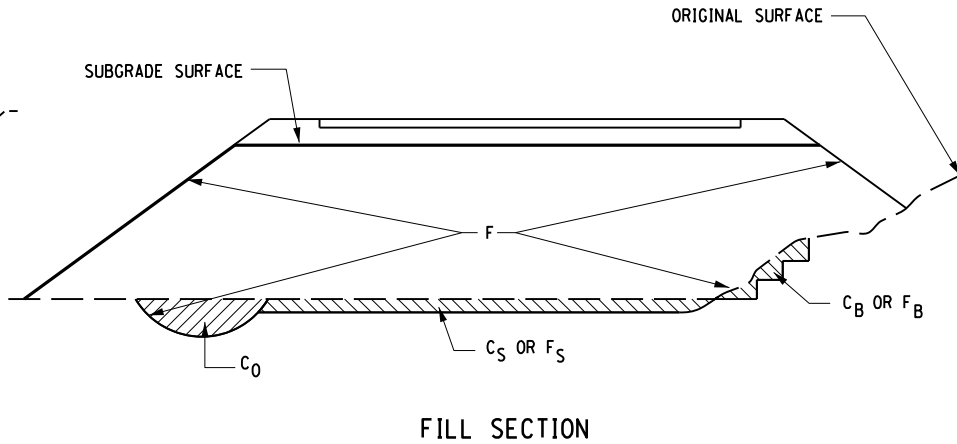
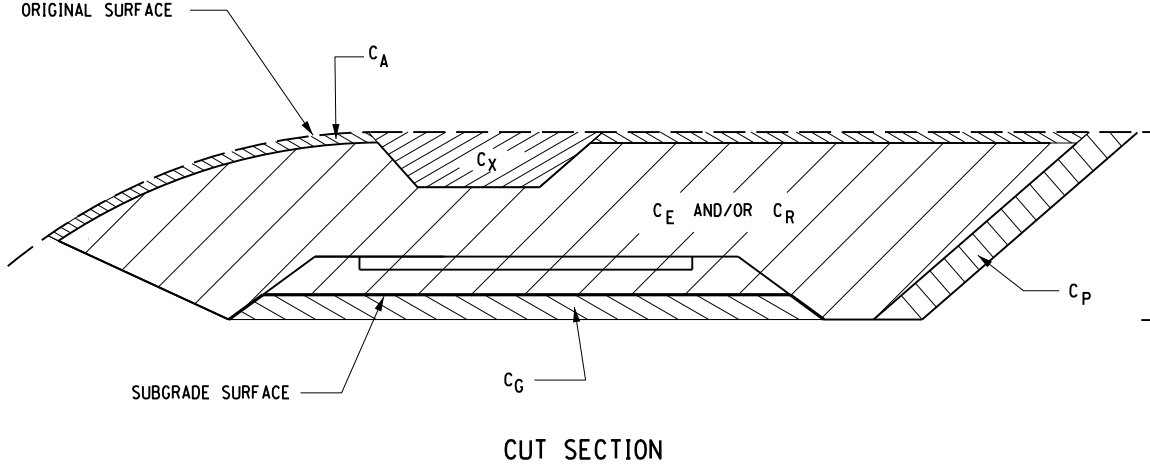
DRAFTED BY: JLC

CHECKED BY:

DESIGNED BY: JLC

SUMMARY OF EARTHWORK (ITEMS 203.02 AND 203.03 ONLY)					
SOURCE	EXCAVATION			ITEM 203.02	ITEM 203.03
	T _E	C _G	T _U	C _T	F _T
BEFORE CULVERT STA. 226+60 TO STA. 227+15		24		24	
AFTER CULVERT STA. 228+00 TO STA. 228+75		26		26	
WINGWALLS					1,428
ABOVE CULVERT					15
TOTALS		50		50	1,443

SUMMARY OF TRENCH AND CULVERT EXCAVATION (ITEM 206.0201 ONLY)			
SOURCE	EXCAVATION		ITEM 206.0201
	ROCK	NON-ROCK	
CULVERT		97	97
TOTALS		97	97



DEFINITIONS:

- C_B - EXCAVATION FOR REQUIRED BENCHING, (BOTH LONGITUDINAL AND TRANSVERSE).
C_G - EXCAVATION FOR SUBGRADE IMPROVEMENT.
C_P - EXCAVATION FROM CUT SLOPE NECESSARY TO PLACE SLOPE PROTECTION.
C_E - PORTION OF CUT ASSUMED TO BE EARTH SUITABLE FOR EMBANKMENT CONSTRUCTION, EXCLUDING C_G AND C_P.
T_E - (C_B + C_G + C_P + C_E) TOTAL EARTH EXCAVATION ASSUMED SUITABLE FOR EMBANKMENT CONSTRUCTION.
C_A - EXCAVATION OF TOPSOIL (UNSUITABLE MATERIAL) IN CUT.
C_S - EXCAVATION OF TOPSOIL (UNSUITABLE MATERIAL) UNDER EMBANKMENT.
C_X - EXCAVATION OF UNSUITABLE MATERIAL IN CUT: SWAMP OR DUMP
C₀ - EXCAVATION OF UNSUITABLE MATERIAL BENEATH EMBANKMENT: SWAMP OR DUMP
T_U - (C_A + C_S + C_X + C₀) TOTAL EXCAVATION ASSUMED UNSUITABLE FOR EMBANKMENT CONSTRUCTION.
C_R - PORTION OF CUT ASSUMED TO BE ROCK, INCLUDING C_G IF APPLICABLE.
C_T - (T_E + T_U + C_R) TOTAL EXCAVATION.

DEFINITIONS:

- F_B - FILL REQUIRED TO REPLACE BENCHES.
F_S - FILL REQUIRED TO REPLACE TOPSOIL REMOVED BENEATH EMBANKMENTS.
F - FILL REQUIRED TO COMPLETE EMBANKMENT TO SUBGRADE SURFACE AND SIDE-SLOPES AFTER FOUNDATION IS PREPARED.
F_T - (F_B + F_S + F) TOTAL FILL REQUIRED.
T_A - (T_E × F_E + C_R × F_R) THE VOLUME WHICH THE SUITABLE EXCAVATED MATERIAL COULD OCCUPY IN EMBANKMENT.
F_E - SHRINKAGE FACTOR FOR EARTH
F_R - SWELL FACTOR FOR ROCK

NOTES:

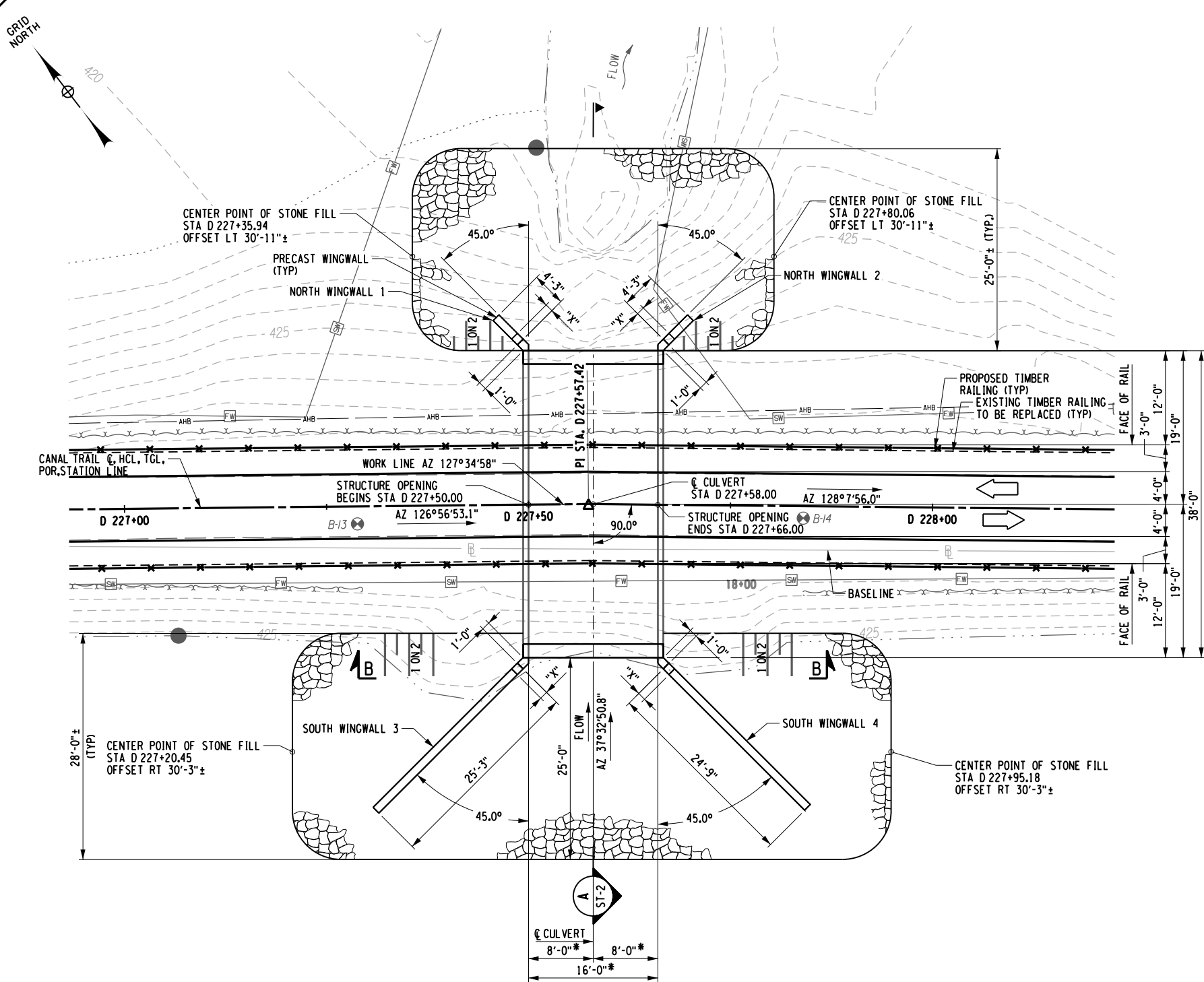
- THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT THESE TABLES ARE ESTIMATED, AND ARE PROVIDED FOR THE PURPOSE OF PREPARING AN ESTIMATE. THEY ARE NOT TO BE CONSTRUED AS BEING EXACT. THEY ARE INTENDED TO QUANTIFY AND QUALIFY THE NATURE OF THE WORK TO BE PERFORMED. SIGNIFICANT DIFFERENCE FROM THIS REPRESENTATION, WHEN ENCOUNTERED DURING THE ACTUAL WORK, WILL BE HANDLED ACCORDING TO THE SPECIFICATIONS GOVERNING THIS PROJECT.
- 203.02 UNCLASSIFIED EXCAVATION AND DISPOSAL
203.02000001 UNCLASSIFIED EXCAVATION AND DISPOSAL, OTHER LOCATIONS (AOBE)
203.03 EMBANKMENT IN PLACE
206.0201 TRENCH AND CULVERT EXCAVATION

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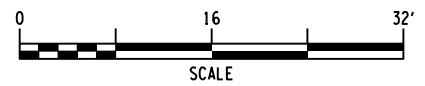
REVISIONS			
DATE	DESCRIPTION	BY	SYMBOL

 Canal Corporation	TITLE OF PROJECT THOMAS ROAD CULVERT REPLACEMENT	CONTRACT NUMBER: K24-10359171-NF
	LOCATION OF PROJECT OLD ERIE CANAL TOWN OF WHITESTOWN, ONEIDA COUNTY	DATE: 09/24/2024
	TITLE OF DRAWING EARTHWORK SUMMARY	DRAWING NUMBER: ES-1

FILE NAME : V:\Projects\NY\K5\073183\000\091\Drawings\Tr-Struc\Package 3 - Culvert Replacement near Thomas Road\073183.cpb.gen.01.dgn
DATE/TIME : 03-OCT-2024 12:58
DESIGNED BY: AOD
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THOMAS RD CULVERT PLAN



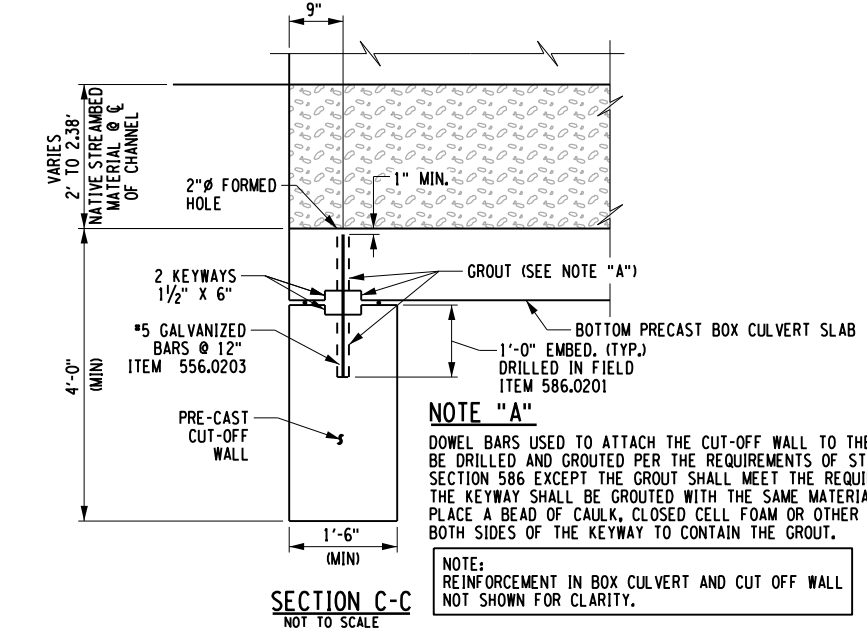
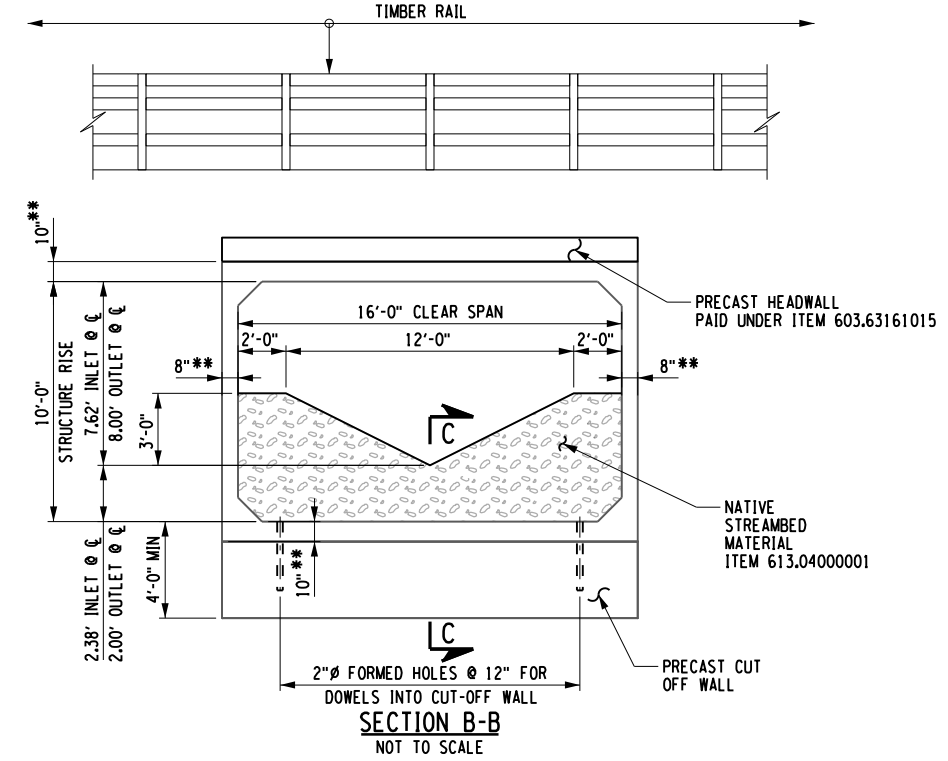
HYDRAULIC DATA

DRAINAGE AREA = 3.38 SQ MILES	BASIC FLOOD	DESIGN FLOOD
REQUENCY INTERVALS (YEARS)	100	50
PEAK DISCHARGE (FT ³ /SEC)	512.0	446.0
HIGH WATER ELEVATION AT POINT OF MAX BACKWATER (FT)	EXISTING 429.0	PROPOSED 428.9
AVG VELOCITY THRU STRUCTURE	12.2	11.7

MINIMUM HYDRAULIC OPENING IS 92 SF.

LOAD RATING			
(LRFR)		(LFD)	
INVENTORY	HL-93	INVENTORY	HS-
OPERATING	HL-93	OPERATING	HS-

THE LOAD RATING TABLE SHALL BE FILLED IN BY THE EIC FROM INFORMATION RECEIVED FROM THE CONTRACTOR AFTER REVIEW AND APPROVAL BY THE DCES. THE SUBMITTED LOAD RATING INFORMATION SHALL BE IN ACCORDANCE WITH THE AASHTO "MANUAL FOR BRIDGE EVALUATION" WITH ALL INTERIM PROVISIONS IN EFFECT. THE CONTRACTOR SHALL PROVIDE LOAD RATINGS IN BOTH THE LOAD FACTOR RATING (LFR) METHOD AND THE LOAD AND RESISTANCE FACTOR RATING (LRFR) METHOD. THE CONTRACTOR SHALL ALSO PROVIDE ALL LOAD RATING COMPUTATIONS TO THE REGIONAL STRUCTURES ENGINEER.



BOX CULVERT DESIGN DATA

CLEAR SPAN, ft.	16.0
STRUCTURE RISE, ft.	10.0
* MIN. FILL HEIGHT, ft.	0.5
* MAX. FILL HEIGHT, ft.	3.3
SKUEW ANGLE J TO C OF ROADWAY, DEG.	0.0
LIVE LOAD	HL93 WITH MINIMUM INVENTORY LRFR RATING OF 1.2
RAILING / BARRIER TEST LEVEL	TL-2 BRIDGE RAIL

* BASED ON ASSUMED TOP SLAB THICKNESS OF 10". FABRICATOR SHALL ADJUST BASED ON ACTUAL TOP SLAB THICKNESS.

LEGEND

- ⊗ - DENOTES SOIL BORING LOCATION.
- * - DIMENSION MEASURED PERPENDICULAR TO SKEW.
- ** - DIMENSION ASSUMED. ACTUAL DIMENSION TO BE DETERMINED BY FABRICATOR.

NOTES:

1. THE LENGTH OF EACH CULVERT SEGMENT SHALL BE DETERMINED BY THE CONTRACTOR.
2. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1".
3. SEE DWG. ST-2 FOR WINGWALL DATA TABLE.
4. EXISTING PIPE CULVERTS SHALL BE REMOVED IN THEIR ENTIRETY WITHIN THE PLY LIMITS SHOWN IN THE PLANS. REMOVAL COST SHALL BE INCLUDED UNDER ITEM 206.01.

AFFIXED ON: 9/24/2024
SIGNATURE: [Signature]
STAMP: [Professional Engineer Seal]

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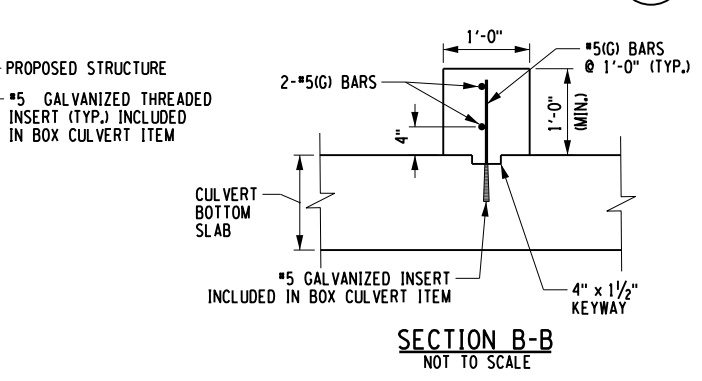
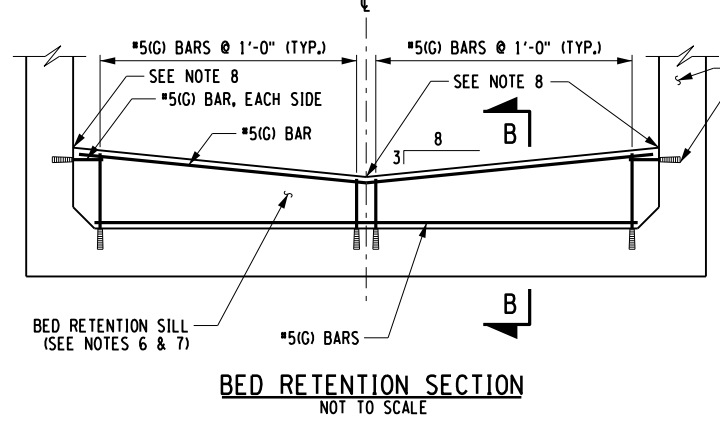
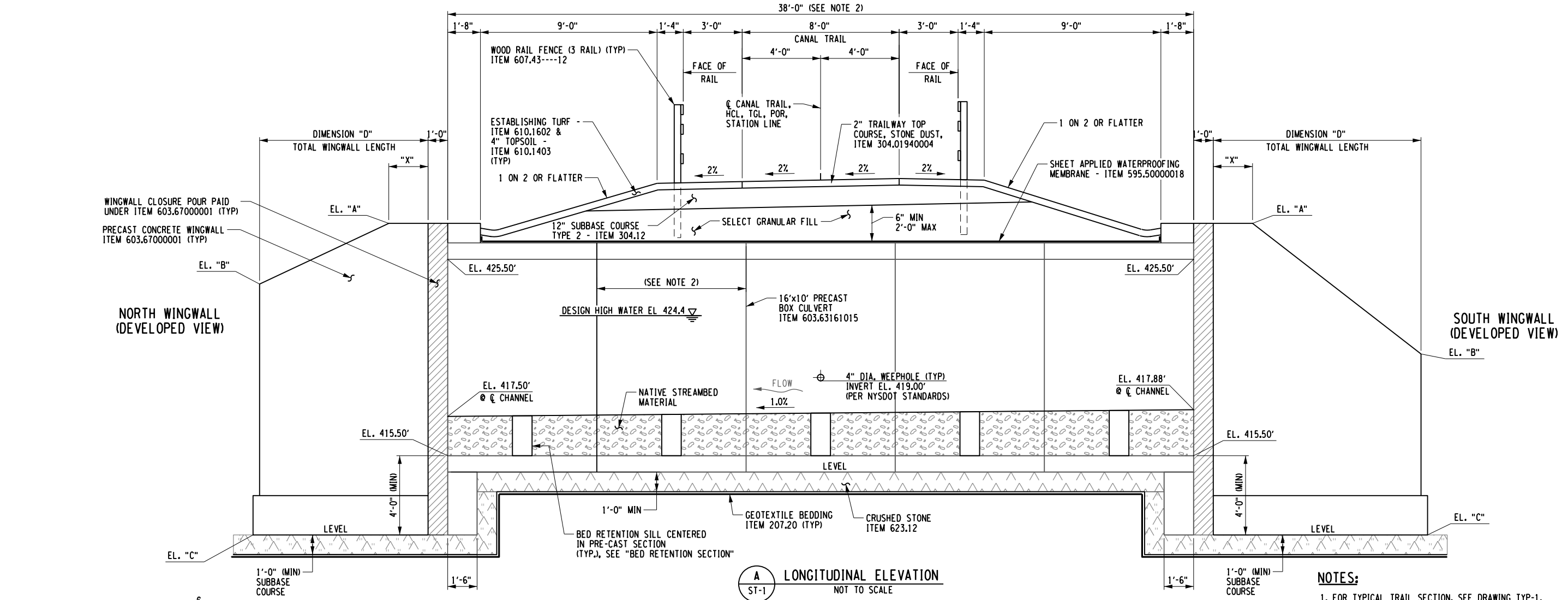
REVISIONS			
DATE	DESCRIPTION	BY	SYM.

Canal Corporation

TITLE OF PROJECT THOMAS ROAD CULVERT REPLACEMENT	CONTRACT NUMBER: K24-10359171-NF
LOCATION OF PROJECT OLD ERIE CANAL TOWN OF WHITESTOWN, ONEIDA COUNTY	DATE: 09/24/2024
TITLE OF DRAWING CULVERT GENERAL PLAN AND SECTION	DRAWING NUMBER: ST-1

FILE NAME : V:\Projects\NY\073183.000\091.Design\Drawings\Tr-Struc\Package 3 - Culvert Replacement near Thomas Road\073183.cpb-gen.02.dgn
DATE/TIME : 03-OCT-2024
USER : 7558

CHECKED BY: AOD
DRAFTED BY: JLC
DESIGNED BY: AOD
DESIGN SUPERVISOR: LMM



WINGWALL DATA					
LOCATION	ELEVATION "A"	ELEVATION "B"	ELEVATION "C"	DIMENSION "D"	DIMENSION "X"
NORTH WINGWALL 1	427.08	423.36	411.50	4'-3"	1'-0"
NORTH WINGWALL 2	427.08	423.36	411.50	4'-3"	1'-0"
SOUTH WINGWALL 3	427.08	416.17	411.50	25'-3"	1'-0"
SOUTH WINGWALL 4	427.08	416.17	411.50	24'-9"	1'-0"

GEOTECHNICAL WINGWALL DESIGN DATA						
FRICTION ANGLE OF SOIL RETAINED BY THE WALL (DEGREES)	FRICTION ANGLE OF FOUNDATION SOIL (DEGREES)	TOTAL SOIL UNIT WEIGHT (lb/ft ³)	MAXIMUM SERVICE LIMIT STATE BEARING RESISTANCE (lb/ft ²)	NOMINAL COEFFICIENT OF FRICTION FOR SLIDING	STRENGTH LIMIT STATE RESISTANCE FACTOR FOR SLIDING	STRENGTH LIMIT STATE RESISTANCE FACTOR FOR BEARING
37	36	130	6000	0.40	0.90	0.45

- FOR THE SLIDING AND ECCENTRICITY ANALYSES, ASSUME A GROUND WATER ELEVATION OF CHANNEL ELEVATION.
- FOR THE BEARING ANALYSES, ASSUME A GROUNDWATER ELEVATION AT CHANNEL ELEVATION.
- USE SUBMERGED UNIT WEIGHTS BELOW THE GROUNDWATER ELEVATIONS PROVIDED.
- ASSUME NO WALL FRICTION FOR DETERMINATION OF K₀.
- ASSUME A SURCHARGE LOAD OF 250 POUNDS PER SQUARE FOOT.

- LEGEND:**
- * - DIMENSION MEASURED PERPENDICULAR TO WORKLINE.
 - ** - DIMENSION MEASURED ALONG SKEW.
 - NATIVE STREAMBED MATERIAL (ITEM 613.04000001 & ITEM 615.01010108)
 - CRUSHED MATERIAL MEETING THE REQUIREMENTS OF MATERIAL DESIGNATION 703-0201, 703-0202 OR 703-0204 WITH A PRIMARY SIZE DESIGNATION AS INDICATED IN THE FOUNDATION DESIGN REPORT.. (ITEM 623.12)
 - SUBBASE COURSE, TYPE 1 (ITEM 304.11)

- NOTES:**
- FOR TYPICAL TRAIL SECTION, SEE DRAWING TYP-1.
 - THE LENGTH OF EACH CULVERT SEGMENT SHALL BE DETERMINED BY THE CONTRACTOR. IF STAGED CONSTRUCTION IS EMPLOYED, THE PRECAST BOX CULVERT SEGMENT LENGTH MUST BE COMPATIBLE WITH STAGING REQUIREMENTS.
 - ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1".
 - DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS, FOR WHICH NO SCALE IS SHOWN, ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.
 - DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS, FOR WHICH NO SCALE IS SHOWN, ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.
 - A 6" THICK PROTECTIVE LAYER OF CONCRETE SAND, MEETING THE REQUIREMENTS OF §703-07 CONCRETE SAND, SHALL BE PLACED ON THE WATERPROOFING MEMBRANE.
 - ALL COSTS ASSOCIATED WITH THE INSTALLATION OF A RETENTION SILL, WHEN NECESSARY, SHALL BE INCLUDED IN THE PRICE BID FOR THE PRECAST BOX UNITS.
 - THE TOP OF THE RETENTION SILL SHALL HAVE A SLOPE OF 3 ON 8 UNLESS OTHERWISE NOTED.
 - NATIVE STREAMBED MATERIAL SHALL BE INSTALLED FLUSH WITH THE TOP OF EACH RETENTION SILL AT STREAM CL AND AT WALLS OF CULVERT.
 - THE DETAILS SHOWN FOR THE CULVERT BARREL ARE BASED ON THE ASSUMPTION THAT THE WATER IN THE STREAM CHANNEL WILL BE DIVERTED OR CARRIED IN A FLUME DURING THE ENTIRE CONSTRUCTION OF THE BARREL. SHOULD THE CONTRACTOR DESIRE TO DIVERT THE WATER THROUGH ONE OF THE CELLS BEFORE COMPLETION OF THE ENTIRE BARREL, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL, THE CONSTRUCTION PROCEDURE AND SKETCHES SHOWING THE LOCATION OF THE PROPOSED CONSTRUCTION AND CONTRACTION JOINTS AND THE CHANGES IN THE BAR REINFORCEMENT DETAILS.



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REVISIONS			
DATE	DESCRIPTION	BY	SYM.

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TITLE OF PROJECT
THOMAS ROAD CULVERT REPLACEMENT

LOCATION OF PROJECT
OLD ERIE CANAL
TOWN OF WHITESTOWN, ONEIDA COUNTY

TITLE OF DRAWING
LONGITUDINAL CULVERT ELEVATION

CONTRACT NUMBER:
K24-10359171-NF

DATE:
09/24/2024

DRAWING NUMBER:
ST-2

FILE NAME = V:\Projects\ANY\K6\073183\000\091\Drawings\Tr-Struc\Package 3 - Culvert Replacement near Thomas Road\073183.cpb-geo-bor-01.dgn
DATE/TIME = 03-OCT-2024 15:56
DESIGN SUPERVISOR: LMM

CHECKED BY: AOD

DRAFTED BY: JLC

CHECKED BY:

DESIGNED BY: AOD

AFFIXED ON:
9/24/2024

SIGNATURE:
STAMP:

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REVISIONS			
DATE	DESCRIPTION	BY	SYM.

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TITLE OF PROJECT
THOMAS ROAD CULVERT REPLACEMENT

LOCATION OF PROJECT
OLD ERIE CANAL
TOWN OF WHITESTOWN, ONEIDA COUNTY

TITLE OF DRAWING
BORING LOGS
(1 OF 2)

CONTRACT NUMBER:
K24-10359171-NF

DATE:
09/24/2024

DRAWING NUMBER:
ST-3

NOTE:
1. FOR BORING LOCATION, SEE DWG. ST-1.

PROJECT NUMBER: 073183				Canalway Trail Utica to Stanwix SUBSURFACE LOG HOLE NUMBER B-13							Page 1 of 2	
LOCATION: Utica to Stanwix, NY, New York				DRILL FLUID: None		DRILLING METHOD: 3.25" HSA			ROD SIZE: AWJ			
CLIENT: NYSOC				HAMMER TYPE: Automatic			DRILL RIG: Rubber Tire ATV					
CONTRACTOR: CME Associates, Inc.				START: 6/17/2022 10:25:00 AM			FINISH: 6/20/2022 10:40:00 AM					
DRILLER: B. Fletcher		INSPECTOR: M. Horan		WATER LEVEL OBSERVATIONS	DATE	TIME	READING TYPE	WATER DEPTH (ft)	CASING BOTTOM (ft)	HOLE BOTTOM (ft)		
CHECKED BY: CWS					6-17-22	10:53 AM	During Drilling	13	14	16		
COORDS. NORTHING: 1160031.56		EASTING: 1147122.51			6-20-22	9:35 AM	Start of Day	6	29	29		
SURFACE ELEV: 429.8 (ft; Estimated)		DATUM: NAD83 / NAVD88			6-20-22	10:40 AM	Completion	22.5	39	39.7		
SAMP. CORE NUMBER	SAMP. ADV. LEN. CORE (ft)	RECOVERY (ft)	Blows Per 6" on Split Spoon Sampler	"N" Value or RQD%	SAMPLE DEPTH (Feet)	GRAPHICS	DESCRIPTION AND CLASSIFICATION	ELEVATION (Feet)	Remarks on Character of Drilling, Water Return, etc.	WATER LEVELS AND/OR WELL DATA		
S-1	2	1.3	7-12-8-8	20			TOPSOIL f.c. GRAVEL, And f.m.c. Sand, trace silt, gray, m. compact, moist (FILL) f.m. SAND, Some f.c. Gravel, trace silt, tan, m. compact, moist (FILL)		Borehole drilled through stone dust on trail surface. Upper portion of sample S-1 labeled as S-1A; Lower portion labeled as S-1B. Laboratory moisture content testing performed on all soil samples and other testing performed on select samples. Noted grinding from 4'-7'.			
S-2	2	1.3	6-5-4-5	9	5		f.m. SAND, Some Silt, Some f.c. Gravel, tan/orange, loose, moist (FILL)	425	Water level observations during drilling may not represent static groundwater conditions.	▽		
S-3	2	0.9	2-5-5-6	10	10		f. GRAVEL, Some clayey Silt, Some f.m.c. Sand, trace roots, trace decomposed wood, tan/gray, loose, wet (FILL)	420	Noted grinding from 12'-18'.			
S-4	2	0.9	11-6-8-23	14	15		f.m.c. SAND, And clayey Silt, Some f. Gravel, gray, m. compact, wet (SM)	415	Noted 0.1' thick layer of f.m.c. sand, trace silt, gray, wet at 14.5' within sample S-4.			
S-5	2	0.8	7-6-5-10	11			f.c. GRAVEL, Some clayey Silt, little f.m.c. sand, gray, m. compact, wet (GM)					
S-6	2	0.9	6-13-22-62	35			f.c. GRAVEL, Some clayey Silt, little f.m.c. sand, gray, compact, wet (GM-TILL)		Noted grinding and slow drilling from 18'-29'			
S-7	1.8	0.7	36-43-80-50/0.25'	R			Becomes v. compact, moist (GM-TILL)	410				
S-8	1.8	1.6	23-22-40-50/0.3'	62			f.c. GRAVEL, Some clayey Silt, little f.m.c. sand, gray, v. compact, moist (GM-TILL)					
S-9	2	2	25-46-57-69	R	25		f.m. SAND, little clayey silt, little f.c. gravel, gray, v. compact, moist (SM-TILL)	405				

PROJECT NUMBER: 073183						Canalway Trail Utica to Stanwix SUBSURFACE LOG HOLE NUMBER B-13					Page 2 of 2
SAMP. CORE NUMBER	SAMP. ADV. (ft)	SAMP. LEN. CORE (ft)	RECOVERY (ft)	Blows Per 6" on Split Spoon Sampler	"N" Value or RQD%	SAMPLE DEPTH (feet)	GRAPHICS	DESCRIPTION AND CLASSIFICATION	ELEVATION (Feet)	Remarks on Character of Drilling, Water Return, etc.	WATER LEVELS AND/OR WELL DATA
S-10	1.7	1.4		23-44-46-50/0.2'	90	30		f.m.c. SAND , And f.c. Gravel, trace silt, gray, v. compact, wet (SP-TILL)	400	Noted grinding and slow drilling from 31'-32'.	
S-11	0.7	0.7		36-100/0.2'	R	35		Clayey SILT , Some f.m.c. Sand, little f. gravel, gray, hard, moist (ML-TILL)	395	Noted slow drilling with intermittent grinding from 32'-39'.	
S-12	0.7	0.7		97-50/0.15'	R	40		f.m.c. SAND , Some clayey Silt, little f. gravel, gray, v. compact, moist (SM-TILL) End of Boring at 39.7 ft	390	Borehole tremie grouted and patched with concrete mix upon completion.	
						45			385		
						50			380		
						55			375		
						60			370		

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DESIGN SUPERVISOR: LMM

CHECKED BY: AOD

DRAFTED BY: JLC

CHECKED BY:

DESIGNED BY: AOD

AFFIXED ON:
9/24/2024

SIGNATURE:
STAMP:

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE. THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REVISIONS			
DATE	DESCRIPTION	BY	SYMBOL

NEW YORK
STATE OF
OPPORTUNITY

Canal
Corporation

Canalway Trail Utica to Stanwix
SUBSURFACE LOG
HOLE NUMBER B-14

TITLE OF PROJECT
THOMAS ROAD CULVERT REPLACEMENT

LOCATION OF PROJECT
OLD ERIE CANAL
TOWN OF WHITESTOWN, ONEIDA COUNTY

TITLE OF DRAWING
BORING LOGS
(2 OF 2)

CONTRACT NUMBER:
K24-10359171-NF

DATE:
09/24/2024

DRAWING NUMBER:
ST-4

Canalway Trail Utica to Stanwix
SUBSURFACE LOG
HOLE NUMBER B-14

Page 1 of 2

PROJECT NUMBER: 073183

LOCATION: Utica to Stanwix, NY, New York

CLIENT: NYSOC

CONTRACTOR: CME Associates, Inc.

DRILLER: B. Fletcher

INSPECTOR: M. Horan

CHECKED BY: CWS

COORDS. NORTHING: 1159998.49 EASTING: 1147166.69

SURFACE ELEV: 429.8 (ft; Estimated) DATUM: NAD83 / NAVD88

DRILL FLUID: Water at 35' DRILLING METHOD: 3.25" HSA ROD SIZE: AWJ

HAMMER TYPE: Automatic

DRILL RIG: Rubber Tire ATV

START: 6/16/2022 1:10:00 PM FINISH: 6/17/2022 8:55:00 AM

	DATE	TIME	READING TYPE	WATER DEPTH (ft)	CASING BOTTOM (ft)	HOLE BOTTOM (ft)
WATER LEVEL OBSERVATIONS	6-16-22	1:55 PM	During Drilling	13.4	14	16
	6-16-22	3:55 PM	End of Day	23.5	35	34.5
	6-17-22	8:15 AM	Start of Day	22.2	35	34.9

SAMP. CORE NUMBER	SAMP. ADV. LEN. CORE (ft)	RECOVERY (%)	Blows Per 6" on Split Spoon Sampler	"N" Value or RQD%	SAMPLE DEPTH (Feet)	GRAPHICS	DESCRIPTION AND CLASSIFICATION	ELEVATION (Feet)	Remarks on Character of Drilling, Water Return, etc.	WATER LEVELS AND/OR WELL DATA
S-1	2	1.4	10-9-8-12	17			f.m.c. SAND, Some f. Gravel, trace silt, trace decomposed wood, brown, m. compact, moist (FILL) f.m. SAND, trace silt, trace f. gravel, tan, m. compact, moist (FILL)		Borehole drilled through stone dust on trail surface. Upper portion of sample S-1 labeled as S-1A; Lower portion labeled as S-1B. Laboratory moisture content testing performed on all soil samples and other testing performed on select samples. Noted grinding from 2'-4'.	
S-2	2	1.4	3-3-2-3	5	5		f.m.c. SAND, Some Silt, Some f. gravel, trace roots, light tan, loose, moist (FILL)	425		
S-3	2	0.8	2-2-2-3	4	10		Becomes v. loose (FILL) f.c. GRAVEL, Some silty Clay, Some f.m.c. Sand, light tan, v. loose, wet (FILL)	420	Noted a thin, black organic layer at 9.5' within sample S-3. Noted grinding from 9'-14'.	
S-4	2	1.7	9-11-22-8	33	15		f.c. GRAVEL, little silt, little f.m.c. sand, light tan/gray, compact, moist (GM)	415	Water level observations during drilling may not represent static groundwater conditions.	
S-5	2	0.2	7-9-8-12	17			Insufficient Recovery f.m.c. SAND, Some clayey Silt, Some f.c. Gravel, light tan/gray, m. compact, wet (SM)			
S-6	2	0.4					f.c. GRAVEL, Some clayey Silt, Some f.m.c. Sand, gray, loose, wet (GM)			
S-7	2	0.8	3-3-2-8	5	20		f.c. GRAVEL, And f.m.c. Sand, little clayey silt, gray, v. compact, wet (GM-TILL)	410		
S-8	2	1.4	16-29-44-38	73			f.m.c. SAND, Some clayey Silt, Some f.c. Gravel, gray, compact, moist (SM-TILL)		Noted grinding from 21'-34'	
S-9	2	1.5	19-19-29-44	48			Becomes v. compact (SM-TILL) f.m. SAND, little silt, little f.c. gravel, gray, v. compact, wet (SM-TILL)	405	Noted 0.6' of soil entered augers when casing reached 22'. Drillers used split spoon to clear the borehole before sampling.	
S-10	2	1.7	33-38-47-44	85	25					

Canalway Trail Utica to Stanwix
SUBSURFACE LOG
HOLE NUMBER B-14

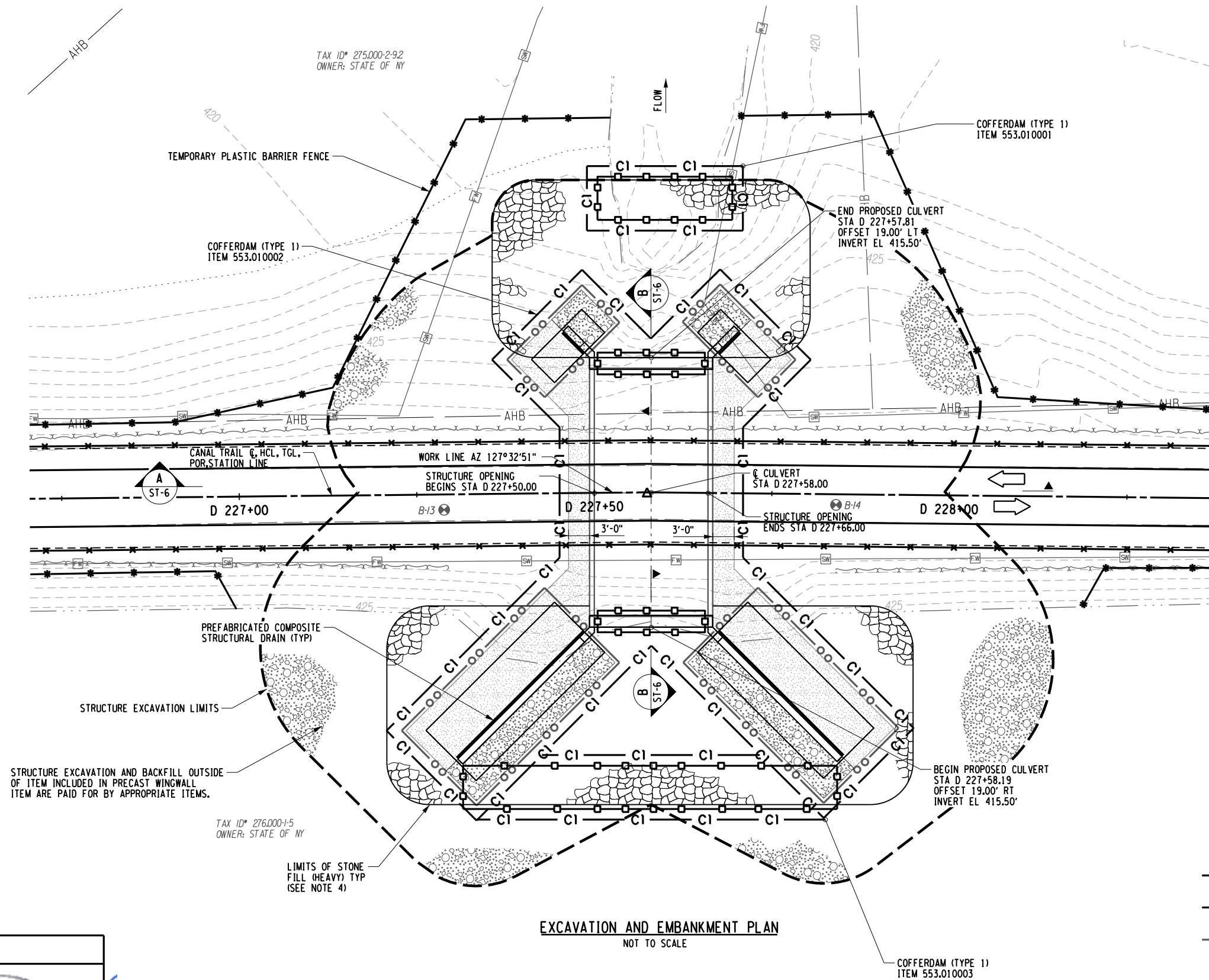
Page 2 of 2

PROJECT NUMBER: 073183

SAMP. CORE NUMBER	SAMP. ADV. LEN. CORE (ft)	RECOVERY (%)	Blows Per 6" on Split Spoon Sampler	"N" Value or RQD%	SAMPLE DEPTH (Feet)	GRAPHICS	DESCRIPTION AND CLASSIFICATION	ELEVATION (Feet)	Remarks on Character of Drilling, Water Return, etc.	WATER LEVELS AND/OR WELL DATA
S-11	2	2	45-61-53-50	R	30		f.c. GRAVEL, Some Silt, Some f.m.c. Sand, gray, v. compact, moist (GM-TILL) f.m. SAND, little f.c. gravel, trace silt, gray, v. compact, moist (SP-TILL)	400	Upper portion of sample S-11 labeled as S-11A; Lower portion labeled as S-11B. Auger refusal at 34'. Noted 3' of soil entered augers when casing reached 34'. Drillers used split spoons to clear the borehole before sampling. Noted consistent grinding from 34'-35'.	
S-12	0.2	0.1	100/0.15'	R	35		Insufficient Recovery f.c. GRAVEL, little silt, little f.m.c. sand, gray, moist (GM-TILL)	395	R-1 recovery consisted of one 3.5" and one 2.5" size rock fragments, and soil.	
R-1	5	1.1		0%	40		End of Boring at 40 ft	390	Borehole tremie grouted and patched with concrete mix upon completion.	

NOTE:
1. FOR BORING LOCATION, SEE DWG. ST-1.

FILE NAME : V:\Projects\NY\K5\073183\000\091\Drawings\Tr-Struc\Package 3 - Culvert Replacement near Thomas Road\073183.cpb.ernw.pln.01.dgn
DATE/TIME : 03-OCT-2024 11:15:58
USER : LMM
DESIGN SUPERVISOR: LMM
DESIGNED BY: AOD
CHECKED BY: JLC
DRAFTED BY: JLC
CHECKED BY: AOD



NOTES:

1. PRECAST WINGWALLS ARE TO BE DESIGNED BY THE CONTRACTOR/VENDOR, WITH CALCULATIONS SUBMITTED TO THE ENGINEER FOR APPROVAL. EXCAVATION LIMITS FOR THE PRECAST WINGWALLS TO BE INCLUDED IN ITEM BID FOR PRECAST WINGWALL (TYP).
2. THE EXISTING SUBSTRUCTURE SHALL BE REMOVED ENTIRELY. REMOVAL TO BE PAID UNDER STRUCTURE EXCAVATION, ITEM 206.01.
3. DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS, FOR WHICH NO SCALE IS SHOWN, ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.
4. HEAVY STONE FILL SHALL BE INSTALLED TO ELEVATION 428, OR AS APPROVED BY THE ENGINEER.
5. COFFERDAM AND DEWATERING ITEMS SHALL ADHERE TO NYSDOT STANDARD SPECIFICATIONS AND DETAILS. PROPOSED DEWATERING AREAS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

LEGEND

- DENOTES SOIL BORING LOCATION.
- LIMITS OF SUBSTRUCTURE REMOVAL, TO BE INCLUDED UNDER ITEM 206.01
- SELECT GRANULAR FILL (ITEM 203.07)
- EMBANKMENT IN PLACE (ITEM 203.03)
- NATIVE STREAMBED MATERIAL (ITEM 613.04000001 AND ITEM 615.01010108)
- CRUSHED MATERIAL MEETING THE REQUIREMENTS OF MATERIAL DESIGNATION 703-0201, 703-0202 OR 703-0204 WITH A PRIMARY SIZE DESIGNATION AS INDICATED IN THE FOUNDATION DESIGN REPORT. (ITEM 623.12)
- SUBBASE COURSE, TYPE 1 (ITEM 304.11)
- STONE FILLING (HEAVY) (ITEM 620.05)
- BEDDING MATERIAL (ITEM 620.0801)
- AREA ENCLOSED WITHIN THESE LINES DESIGNATES PAYMENT LINES FOR STRUCTURE EXCAVATION (ITEM 206.01 - BRIDGE ESTIMATE)
- AREA ENCLOSED WITHIN THESE LINES DESIGNATES PAYMENT LINES FOR TRENCH & CULVERT EXCAVATION - (ITEM 206.0201)
- WITHIN THESE LINES, EXCAVATE AND BACKFILL IN ACCORDANCE WITH THE ITEMS INDICATED. PAYMENT FOR ALL ITEMS WITHIN THESE LINES SHALL BE INCLUDED IN THE PRICE BID FOR THE WINGWALL ITEM.
- C1 - DESIGNATES COFFERDAM (TYPE 1) ITEMS 553.010001, 553.010002 & 553.010003
- PREFABRICATED COMPOSITE STRUCTURAL DRAIN (ITEM 207.26)
- DENOTES TEMPORARY PLASTIC BARRIER FENCE (ITEM 607.41010010)

EXCAVATION AND EMBANKMENT PLAN NOT TO SCALE



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REVISIONS			
DATE	DESCRIPTION	BY	SYM.



Canal Corporation



TITLE OF PROJECT THOMAS ROAD CULVERT REPLACEMENT	CONTRACT NUMBER: K24-10359171-NF
LOCATION OF PROJECT OLD ERIE CANAL TOWN OF WHITESTOWN, ONEIDA COUNTY	DATE: 09/24/2024
TITLE OF DRAWING EXCAVATION AND EMBANKMENT PLAN	DRAWING NUMBER: ST-5

CHECKED BY: AOD

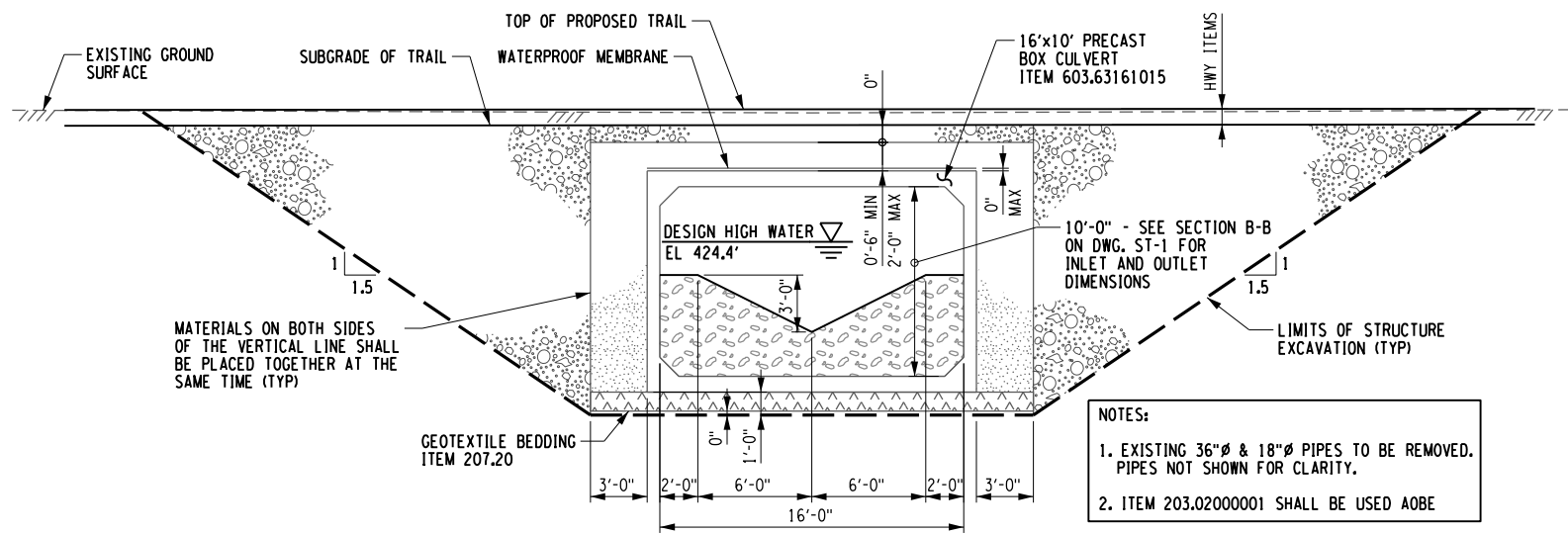
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CHECKED BY: AOD

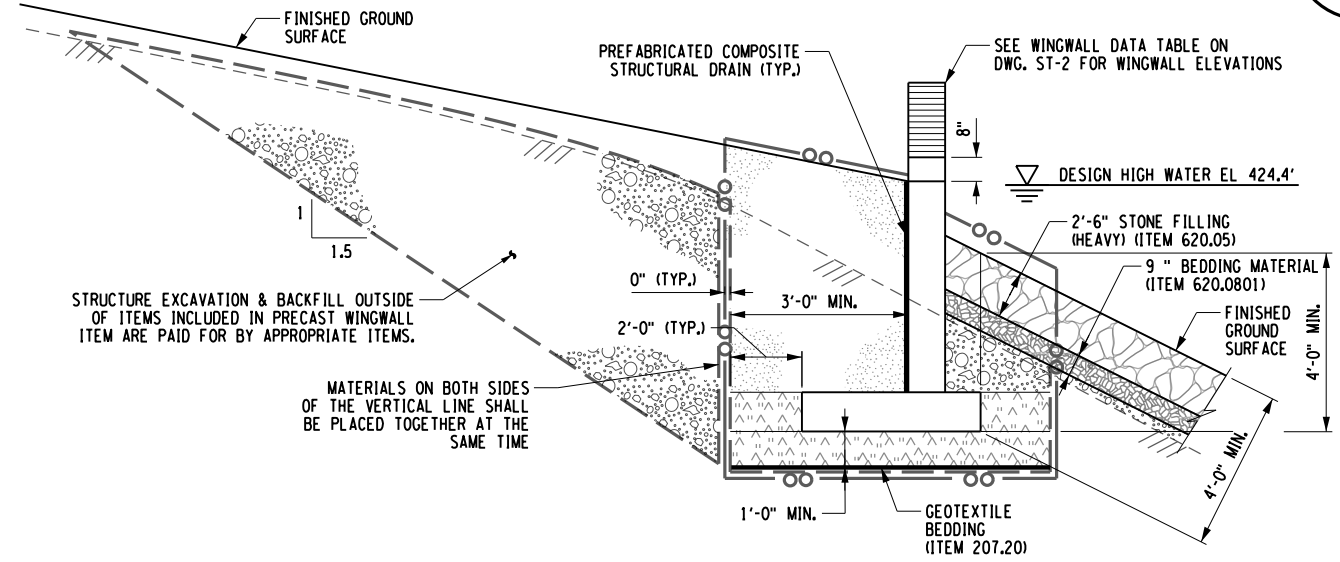
DESIGNED BY: AOD

DESIGN SUPERVISOR: LMM

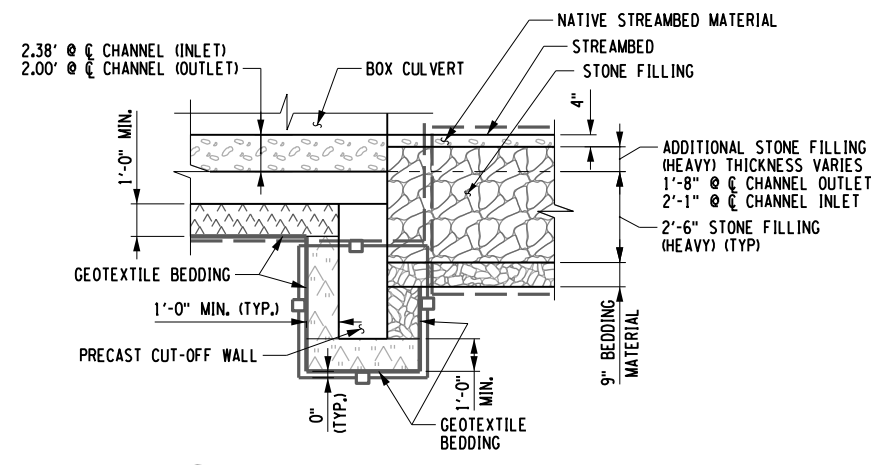
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DATE/TIME : 03-OCT-2024
USER : 7558



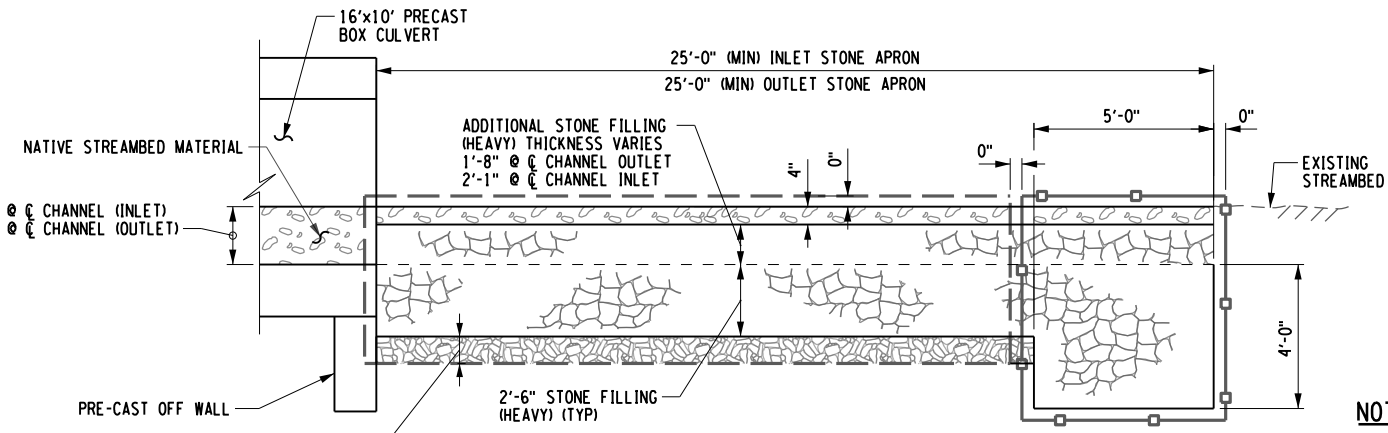
A CULVERT EXCAVATION SECTION
ST-5
NOT TO SCALE



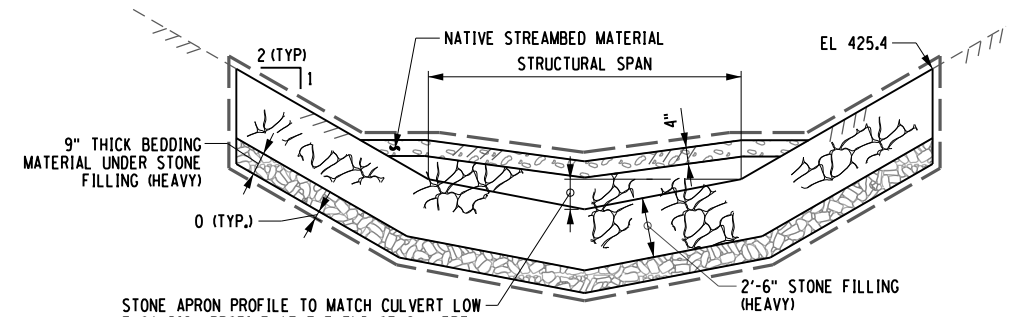
TYPICAL WINGWALL EXCAVATION SECTION
NOT TO SCALE



B PRECAST CUT OFF WALL SECTION
ST-5
NOT TO SCALE



TYPICAL INLET/OUTLET STONE APRON SECTION
NOT TO SCALE



TYPICAL STONE APRON AT STRUCTURE INLET/OUTLET
NOT TO SCALE

- NOTES:**
- EMBANKMENT IN PLACE, ITEM 203.03 AND SELECT GRANULAR FILL, ITEM 203.07, SHALL BE PLACED SIMULTANEOUSLY, IN CONTACT, ON BOTH SIDES OF THE VERTICAL PAYMENT LINE.
 - THE COST OF WATER USED FOR COMPACTION OF SELECT FILL ITEMS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 203.07 - SELECT GRANULAR FILL.

- LEGEND**
- - - - - EXISTING GROUND SURFACE
 - [Pattern] - SELECT GRANULAR FILL (ITEM 203.07), COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DENSITY (BRIDGE ESTIMATE)
 - [Pattern] - EMBANKMENT IN PLACE (ITEM 203.03)
 - [Pattern] - NATIVE STREAMBED MATERIAL ITEM 613.04000001 & ITEM 615.01010108
 - [Pattern] - CRUSHED MATERIAL MEETING THE REQUIREMENTS OF MATERIAL DESIGNATION 703-0201, 703-0202 OR 703-0204 WITH A PRIMARY SIZE DESIGNATION AS INDICATED IN THE FOUNDATION DESIGN REPORT. (ITEM 623.12)
 - [Pattern] - SUBBASE COURSE, TYPE 1 (ITEM 304.11)
 - [Pattern] - STONE FILLING (HEAVY) (ITEM 620.05)
 - [Pattern] - BEDDING MATERIAL, TYPE 1 (ITEM 620.0801)
 - - - - - AREA ENCLOSED WITHIN THESE LINES DESIGNATES PAYMENT LINES FOR STRUCTURE EXCAVATION (ITEM 206.01)
 - - - - - AREA ENCLOSED WITHIN THESE LINES DESIGNATES PAYMENT LINES FOR TRENCH & CULVERT EXCAVATION - (ITEM 206.0201)
 - - - - - WITHIN THESE LINES, EXCAVATE AND BACKFILL IN ACCORDANCE WITH THE ITEMS INDICATED. PAYMENT FOR ALL ITEMS WITHIN THESE LINES SHALL BE INCLUDED IN THE PRICE BID FOR THE WINGWALL ITEM.
 - - - - - PREFABRICATED COMPOSITE STRUCTURAL DRAIN (ITEM 207.26)

AFFIXED ON: 9/24/2024

SIGNATURE: [Signature]

STAMP: [Professional Engineer Seal]

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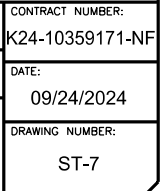
REVISIONS			
DATE	DESCRIPTION	BY	SYM.

Canal Corporation

TITLE OF PROJECT THOMAS ROAD CULVERT REPLACEMENT	CONTRACT NUMBER: K24-10359171-NF
LOCATION OF PROJECT OLD ERIE CANAL TOWN OF WHITESTOWN, ONEIDA COUNTY	DATE: 09/24/2024
TITLE OF DRAWING EXCAVATION AND EMBANKMENT SECTIONS	DRAWING NUMBER: ST-6

DESIGN SUPERVISOR: LMM

DESIGN S



REVISIONS			
DATE	DESCRIPTION	BY	SYM.

TITLE OF PROJECT THOMAS ROAD CULVERT REPLACEMENT		CONTRACT NUMBER: K24-10359171-NF	
LOCATION OF PROJECT OLD ERIE CANAL TOWN OF WHITESTOWN, ONEIDA COUNTY		DATE: 09/24/2024	
TITLE OF DRAWING CLOSURE POUR AND MISCELLANEOUS DETAILS		DRAWING NUMBER: ST-7	

CHECKED BY: AOD

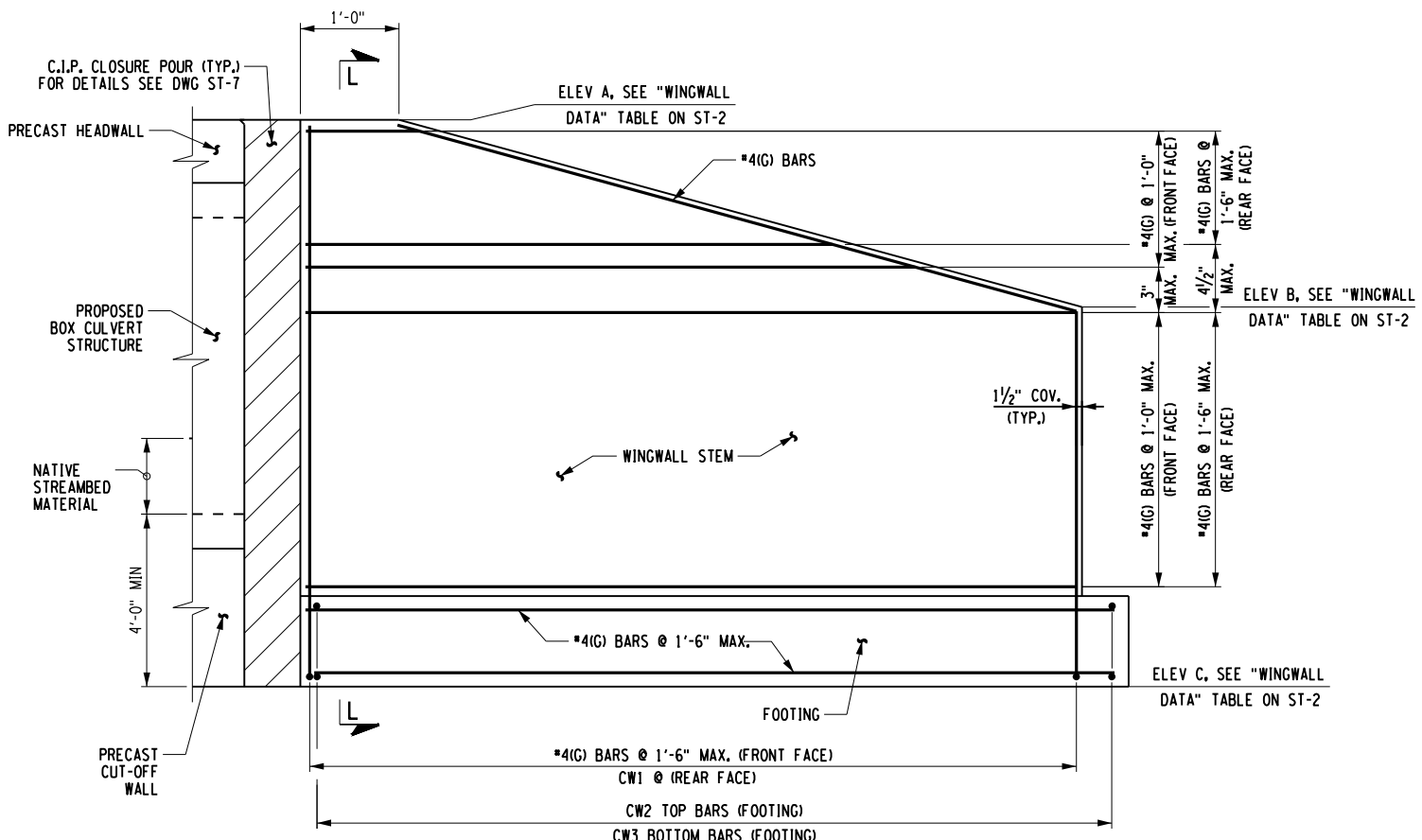
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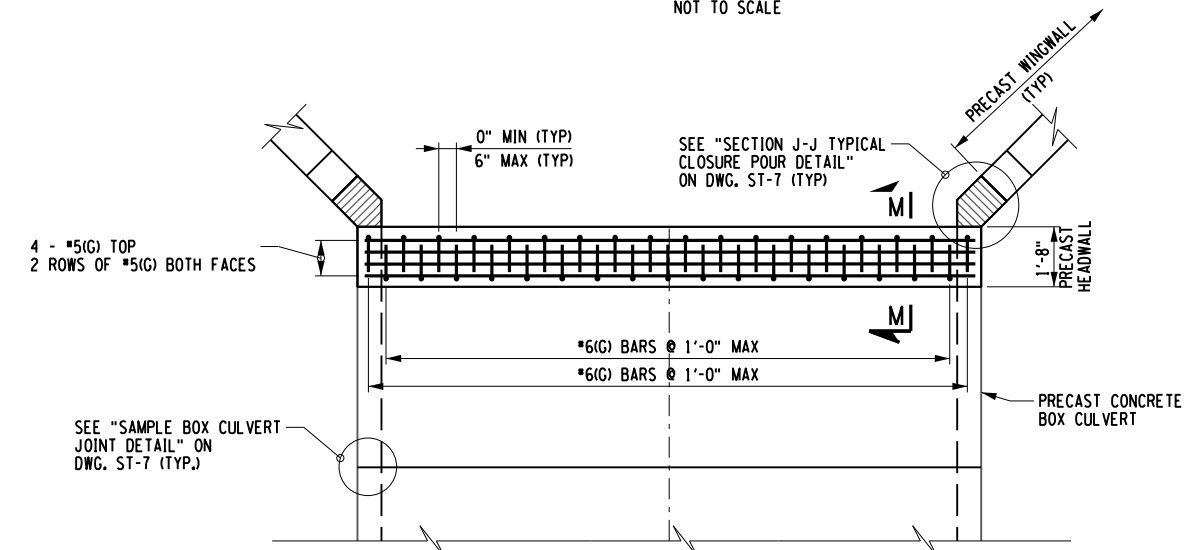
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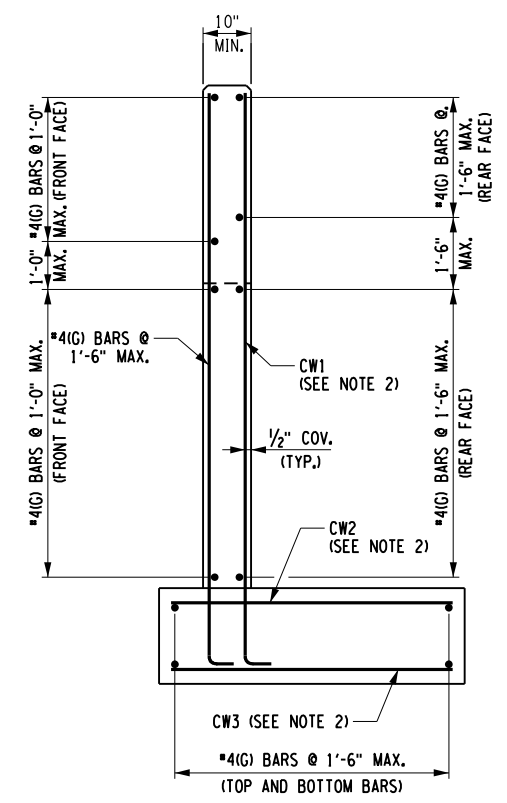
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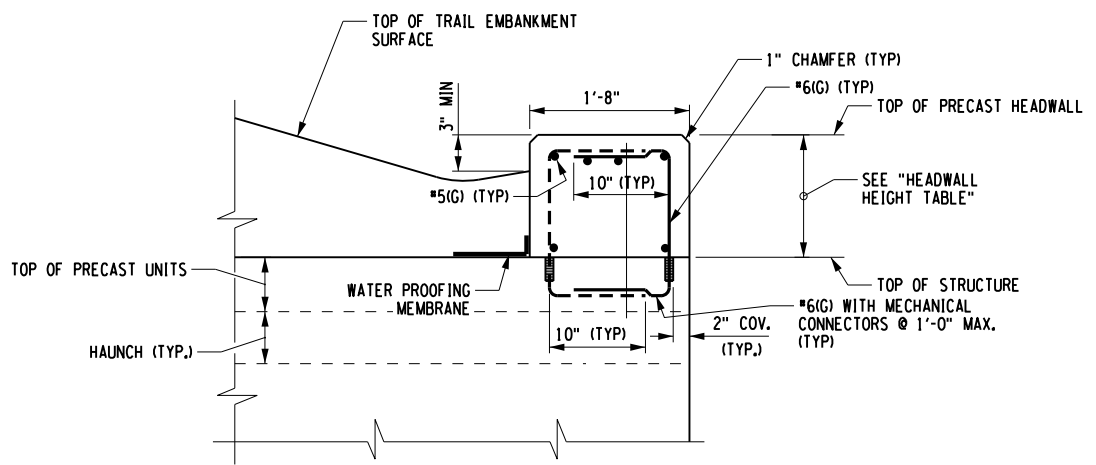
PRECAST WINGWALL UNIT REINFORCEMENT ELEVATION
NOT TO SCALE



PRECAST HEADWALL PLAN
NOT TO SCALE



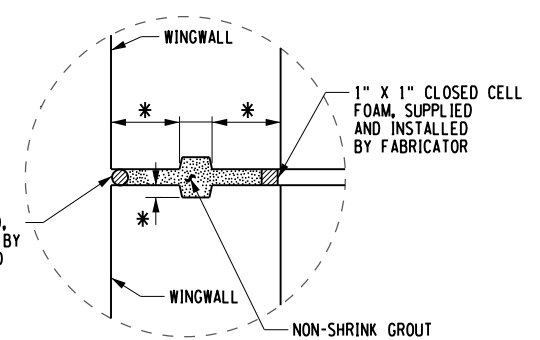
SECTION L-L
TYPICAL WINGWALL UNIT REINFORCEMENT
NOT TO SCALE



SECTION M-M
NOT TO SCALE

WINGWALL NOTES:

1. TALL WALLS MAY USE A DOWEL BAR LAPPED TO A VERTICAL BAR.
2. BAR SIZE AND SPACING TO BE DETERMINED BY CONTRACTOR.
3. ACTUAL WALL THICKNESS AND FOOTING DIMENSIONS TO BE DETERMINED BY CONTRACTOR.
4. BASED ON HANDLING AND SHIPPING CONSTRAINTS, THE CONTRACTOR MAY ELECT TO USE MULTIPLE WINGWALL UNITS TO SATISFY WALL LENGTH REQUIRED ON THE PLANS. THE JOINT DETAIL BETWEEN WINGWALL UNITS SHALL BE IN ACCORDANCE WITH DETAILS PRESENTED ON THIS SHEET.
5. SEE DRAWING ST-2 FOR WINGWALL DATA TABLE.
6. TEMPERATURE/SHRINKAGE REINFORCEMENT PROVIDED SHALL BE CHECKED BY THE CONTRACTOR TO BE IN COMPLIANCE WITH THE CURRENT DESIGN SPECIFICATIONS.
7. PRECAST CANTILEVER WINGWALL IS SHOWN AS AN EXAMPLE. CONTRACTOR MAY ELECT TO USE A PRECAST BINWALL WINGWALL SYSTEM.
8. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1".
9. REINFORCEMENT IN PRECAST UNIT IS NOT SHOWN.
10. ALL COVER SHALL BE 2" UNLESS NOTED OTHERWISE.
11. ALL REINFORCING BARS AND THREADED INSERTS SHALL BE GALVANIZED.



* DIMENSIONS TO BE DETERMINED BY FABRICATOR

1" DIA. FOAM BACKER ROD, SUPPLIED AND INSTALLED BY CONTRACTOR IN THE FIELD

1" X 1" CLOSED CELL FOAM, SUPPLIED AND INSTALLED BY FABRICATOR

NON-SHRINK GROUT CONFORMING TO N.Y.S. D.O.T. 701-06, SUPPLIED AND INSTALLED BY THE CONTRACTOR IN THE FIELD

JOINT DETAIL (SEE NOTE 4)
NOT TO SCALE

HEADWALL HEIGHT TABLE			
LOCATION	TOP OF HEADWALL ELEV. (FT)	TOP OF STRUCTURE ELEV. (FT)	HEADWALL HEIGHT (FT)
NORTH WINGWALL 1	427.08	* 426.33	0.75
NORTH WINGWALL 2	427.08	* 426.33	0.75
SOUTH WINGWALL 3	427.08	* 426.33	0.75
SOUTH WINGWALL 4	427.08	* 426.33	0.75

* TOP OF PRECAST STRUCTURE ELEVATION ASSUMED BASED ON ROOF THICKNESS OF 10"

AFFIXED ON: 9/24/2024

SIGNATURE: [Signature]

STAMP: [Professional Engineer Seal]

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE. THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REVISIONS			
DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE OF OPPORTUNITY

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Albany, NY 12205-0260
518.483.4500 • www.canal.ny.gov

TITLE OF PROJECT THOMAS ROAD CULVERT REPLACEMENT	CONTRACT NUMBER: K24-10359171-NF
LOCATION OF PROJECT OLD ERIE CANAL TOWN OF WHITESTOWN, ONEIDA COUNTY	DATE: 09/24/2024
TITLE OF DRAWING WINGWALL AND HEADWALL DETAILS	DRAWING NUMBER: ST-8