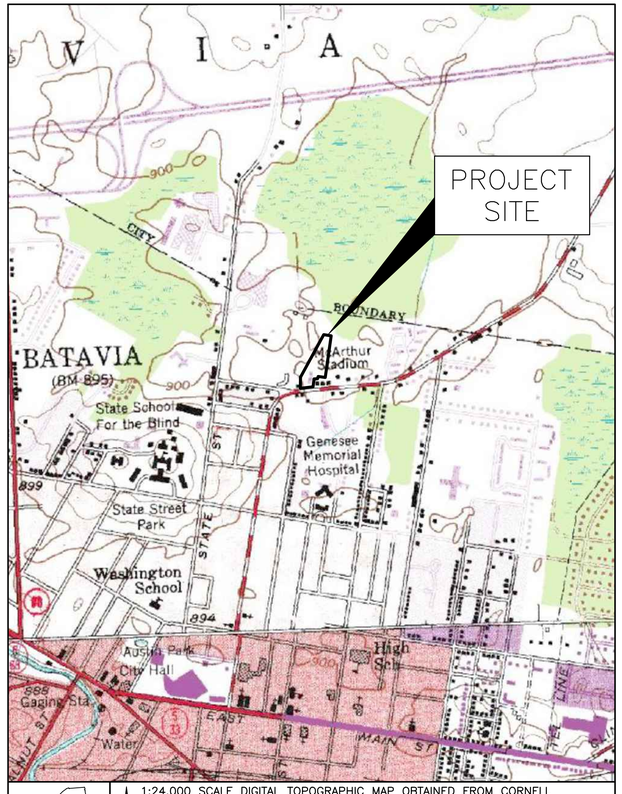
REMEDIAL ACTION PLAN – 100% DESIGN – ISSUED FOR BID
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
BATAVIA IRON AND METAL, SITE NO. 819018
BATAVIA, NEW YORK
JUNE 2022
CONTRACT NO. D011945



QUADRANGLE LOCATION

1:24,000 SCALE DIGITAL TOPOGRAPHIC MAP OBTAINED FROM CORNELL UNIVERSITY GEOSPATIAL INFORMATION REPOSITORY (CUGIR) AT: HTTP://CUGIR.MANNLIB.CORNELL.EDU

PROJECT SITE: 301 BANK STREET, COUNTY OF GENESEE, BATAVIA, NEW YORK

LOCUS MAP

0 500 1000 2000
SCALE IN FEET

DRAWING INDEX

INCLUDED THIS SUBMITTAL	SHEET NUMBER	DISCIPLINE NUMBER	DRAWING TITLE
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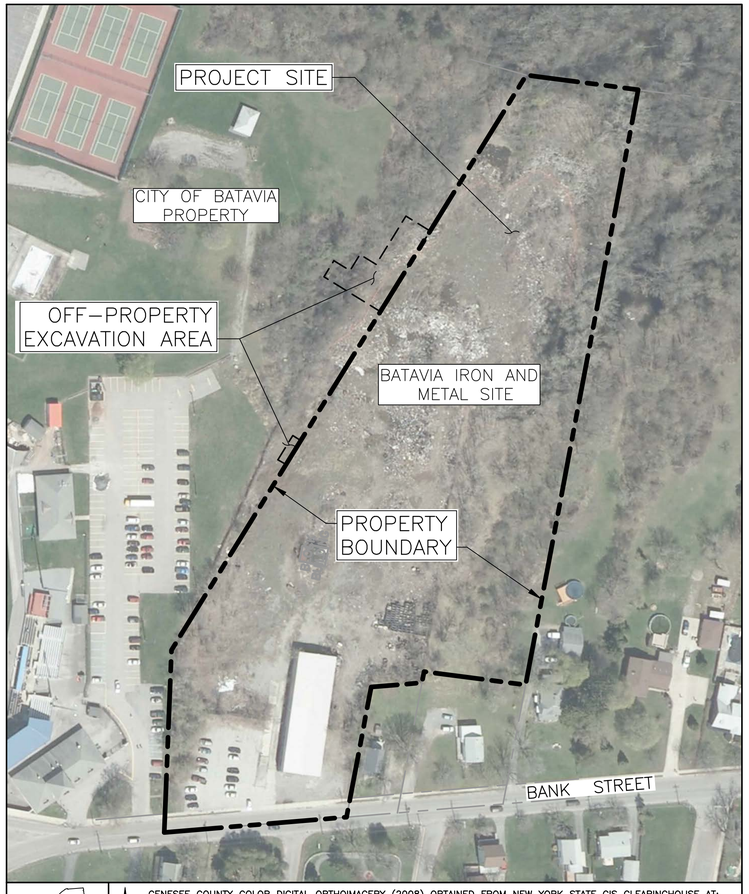
●	17	C-502	SOIL EROSION AND SEDIMENT CONTROL DETAILS
●	18	C-503	CIVIL DETAILS
●	19	C-504	RESTORATION DETAILS



NEW YORK

GENESEE COUNTY

GENESEE COUNTY COLOR DIGITAL ORTHOIMAGERY (2008) OBTAINED FROM NEW YORK STATE GIS CLEARINGHOUSE AT: HTTP://WWW.NYSGIS.STATE.NY.US

PROJECT SITE: 301 BANK STREET, COUNTY OF GENESEE, BATAVIA, NEW YORK

SITE MAP

0 50 100 200
SCALE IN FEET

STATE OF NEW YORK ★ RICHARD S EGAN ★ 097713 ★ LICENSED PROFESSIONAL ENGINEER
6-25-22

NO.	DATE	REVISION	BY	APVD
D	6/25/22	100% DESIGN - ISSUED FOR BID	MAP	RSE
C	5/20/22	RE-ISSUED 95% DESIGN SUBMISSION	MAP	RSE
B	12/17/20	95% DESIGN SUBMISSION	MAP	MJS
A	04/30/20	30% DESIGN SUBMISSION	MAP	MJS

DSGN M. PETERS | DRWN W. WHITTEN | CHK J. WELCH | APVD R. EGAN

NEW YORK STATE Department of Environmental Conservation

REMEDIAL ACTION PLAN
BATAVIA IRON AND METAL SITE
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NYSDEC SITE NO. 819018
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MACTEC Engineering and Consulting, P.C.
P.O. Box 7050, 511 Congress Street
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MACTEC

COVER SHEET

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"

DATE	JUNE 2022
PROJ	3617-20-75081
DWG	G-001
SHEET	1 OF 19

GENERAL NOTES:

1. DRAWING REFERENCES:
   - A. SUPPLEMENTAL BASE MAP TOPOGRAPHICAL INFORMATION (LIDAR SURVEY DATA) OBTAIN FROM NEW YORK STATE GEOGRAPHICAL INFORMATION SYSTEM (GIS) DATA, MAY 2017.
   - B. UPDATED TOPOGRAPHICAL SURVEY: "FINAL GRADING AND SITE RESTORATION MAP, 301 BANK STREET, BATAVIA IRON & METAL SITE, CITY OF BATAVIA, GENESEE COUNTY, NEW YORK"; PREPARED BY GPI ENGINEERING, LANDSCAPE ARCHITECTURE & SURVEYING, LLP; DATED AUGUST 4, 2018.
   - C. UPDATED BOUNDARY SURVEY: "SURVEY OF, 301 BANK STREET, PART OF LOTS 26 & 28, CITY OF BATAVIA, GENESEE COUNTY, NEW YORK"; PREPARED BY GPI ENGINEERING, LANDSCAPE ARCHITECTURE & SURVEYING, LLP; DATED JUNE 5, 2019.
2. SURVEY INFORMATION:
   - A. MAPPING COORDINATES ARE REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (COORS) – NEW YORK STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE.
   - B. ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
   - C. MAPPING UNITS ARE SHOWN IN U.S. SURVEY FEET.
   - D. THE CONTOUR INTERVAL IS 1 FOOT.
   - E. UTILITIES SHOWN HEREON ARE BASED ON VISIBLE EVIDENCE. THE LOCATION OF ALL UTILITIES SHOWN HEREON SHOULD BE CONSIDERED APPROXIMATE.
3. REFER TO THE "LIMITED SITE DATA DOCUMENT" PREPARED BY MACTEC ENGINEERING AND CONSULTING, P.C. FOR HISTORICAL SITE INVESTIGATION DATA.
4. THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION IS RESPONSIBLE FOR COORDINATING PERMISSIONS AND SECURING ACCESS AGREEMENTS TO PERMIT WORK AND CONSTRUCTION SUPPORT ACTIVITIES ON THE CITY OWNED AND ADJACENT ABUTTER PROPERTIES.
5. THE CONTRACTOR IS RESPONSIBLE FOR CONDUCTING ALL WORK IN COMPLIANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS.
6. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING DIG SAFELY NEW YORK 811 (CALL BEFORE YOU DIG) AT LEAST 3 FULL WORKING DAYS (NOT INCLUDING THE DAY OF THE CALL) PRIOR TO CONDUCTING ANY EXCAVATION OR SUBSURFACE ACTIVITIES. DIG SAFELY NEW YORK CAN BE REACHED BY CALLING 811 OR ONLINE AT WWW.DIGSAFELYNEWYORK.COM
7. SELECT A CONSTRUCTION SEQUENCE AND METHODOLOGY THAT MINIMIZES IMPACTS TO BUSINESSES AND PUBLIC AREAS IN THE VICINITY OF THE WORK.
8. THE LOCATION OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES SHOULD BE CONSIDERED APPROXIMATE. OTHER UNIDENTIFIED UNDERGROUND FEATURES MAY BE PRESENT. VERIFY THE LOCATION OF ALL EXISTING UTILITIES OR STRUCTURES WITHIN THE LIMIT OF WORK PRIOR TO THE COMMENCEMENT OF EARTH DISTURBING ACTIVITIES. DIG SAFELY NEW YORK: 811 OR 1–800–962–7962.
9. SHOULD UNCHARTED OR INCORRECTLY CHARTED PIPING OR OTHER UTILITIES BE ENCOUNTERED DURING EARTH DISTURBING ACTIVITIES, CONSULT THE ENGINEER IMMEDIATELY FOR DIRECTION. REPAIR OR COORDINATE REPAIR OF CONTRACTOR–DAMAGED UTILITIES TO THE SATISFACTION OF THE UTILITY OWNER, PROPERTY OWNER, AND ENGINEER.
10. DO NOT INTERRUPT EXISTING UTILITIES WITHOUT ADVANCED NOTIFICATION TO THE DEPARTMENT AND THE UTILITY OWNER. PROVIDE COORDINATION AND TIMELY NOTIFICATION TO THE AFFECTED UTILITY OWNER FOR SHUT–OFF AND RE–CONNECTION OF SERVICES FOR TEMPORARY REMOVAL AND REPLACEMENT DURING AND FOLLOWING EARTH DISTURBING ACTIVITIES.
11. CONTROL DUST GENERATION THROUGHOUT THE DURATION OF THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. IN ADDITION TO IMPLEMENTING THE AIR MONITORING PROGRAM DESCRIBED IN THE CONTRACT DOCUMENTS, DUST MONITORING WILL CONSIST OF CONTINUOUS PARTICULATE/DUST VISUAL OBSERVATION FOR DUST GENERATION DURING EXCAVATION/CONSTRUCTION ACTIVITIES. DURING NON–WORKING HOURS, LEAVE THE SITE IN A CONDITION THAT WILL PREVENT DUST FROM BEING GENERATED. MONITOR WEATHER REPORTS FOR DRY AND/OR WINDY CONDITIONS AND PREPARE THE SITE ACCORDINGLY.
12. SEGREGATE CLEAN/RE–USABLE MATERIALS, MATERIALS TO BE AMENDED DUE TO HIGH LEAD CONTENT, NON–TSCA PCB IMPACTED (PCBs <50PPM) MATERIALS, AND TSCA PCB IMPACTED (PCBs >50PPM) MATERIALS, AND STOCKPILE SEPARATELY.
13. COVER STOCKPILES WITH TARPS AND SANDBAG DURING NON–WORKING PERIODS.
14. DEWATER AND/OR STABILIZE STOCKPILED EXCAVATED SOIL TO MEET THE REQUIREMENTS FOR OVER–ROAD TRANSPORT AND ACCEPTANCE REQUIREMENTS OF THE FACILITY CHOSEN FOR OFF–SITE DISPOSAL.
15. COLLECT ALL CONSTRUCTION WATER, INCLUDING SURFACE WATER ENTERING THE SOIL/SEDIMENT STOCKPILE AND PROCESSING AREAS, WATER FROM DECONTAMINATION OF VEHICLES AND EQUIPMENT, AND WATER FROM EXCAVATION DEWATERING. CONSTRUCTION WATER MAY BE TREATED ON–SITE AND DISCHARGED TO SURFACE WATER IF AVAILABLE PERMIT CRITERIA ARE MET, TRANSPORTED OFF–SITE FOR TREATMENT OR DISCHARGED TO THE LOCAL PUBLICLY OWNED TREATMENT WORKS (POTW) IF PRETREATMENT STANDARDS ARE MET. SUBMIT CONSTRUCTION WATER MANAGEMENT PLAN TO ENGINEER FOR APPROVAL.
16. PROVIDE APPROPRIATE PROTECTION FOR SITE WORKERS AND TRESPASSERS WHEN THERE IS DANGER OF FALLING INTO AN OPEN EXCAVATION IN ACCORDANCE WITH OSHA REQUIREMENTS.
17. THE CONTRACTOR SHALL REFER TO SPECIFICATION SECTION 01 76 50, NUISANCE CONTROLS.

EXCAVATED SOIL MATERIALS REMOVAL NOTES:

1. REMOVE EXCAVATED SOIL MATERIALS TO ESTIMATED LIMITS DEPICTED ON CONTRACT DRAWINGS. LIMITS REPRESENT THE BOUNDARY BETWEEN CONTAMINATED SOIL AND UNDERLYING CLEAN MATERIAL DETERMINED FROM FIELD SAMPLING. AS DETERMINED BY VERIFICATION SAMPLING AND AS DIRECTED BY THE ENGINEER, ADDITIONAL REMOVAL OF SOIL MATERIALS MAY BE REQUIRED PRIOR TO ACHIEVING COMPLETE REMOVAL OF CONTAMINATED SOIL MATERIAL.
2. DETERMINE FINAL HORIZONTAL AND VERTICAL EXCAVATION LIMITS THROUGH SURVEY AND CONFIRMATION SAMPLING. SAMPLE THE EXCAVATION BOTTOM AND SIDEWALLS TO CONFIRM THAT SOIL CLEANUP OBJECTIVES FOR TOTAL PCBS AND FOR METALS HAVE BEEN MET. REFER TO THE SOIL CLEANUP OBJECTIVES PROVIDED IN SPECIFICATION SECTION 01 45 28 – CHEMICAL SAMPLING AND ANALYSIS. IF THE CONFIRMATION SAMPLE RESULTS INDICATE THE CLEANUP OBJECTIVES HAVE NOT BEEN MET, REMOVE AN ADDITIONAL 6 INCHES TO THE LIMITS DEFINED BY ADJACENT TESTING AS AGREED TO BY THE ENGINEER. REPEAT EXCAVATION AND CONFIRMATION TESTING SEQUENCE UNTIL TESTING VERIFIES THE CLEANUP OBJECTIVES HAVE BEEN ACHIEVED, OR ENGINEER CONFIRMS THAT BEDROCK HAS BEEN ENCOUNTERED.
3. CONSIDER ADJACENT SAMPLING LOCATIONS WITH BOTTOM EXCAVATION ELEVATION DIFFERENCES OF 6 INCHES OR LESS TO NOT HAVE AN EXCAVATION SIDEWALL BETWEEN THEM AND THAT NO SIDEWALL CONFIRMATION TESTING BETWEEN THE LOCATIONS IS REQUIRED. OTHERWISE, PERFORM SIDEWALL CONFIRMATION TESTING.
4. USE THE ELEVATIONS INDICATED ON THE DRAWINGS AS THE MINIMUM VERTICAL EXCAVATION LIMIT. DEEPER EXCAVATIONS MAY BE REQUIRED AS DETERMINED BY CONFIRMATION SAMPLING. PROVIDE NECESSARY SLOPE CUTBACK TO SUPPORT THE REQUIRED FINAL DEPTH OF EXCAVATION IN CONSIDERATION OF SLOPE STABILITY.
5. IN THE EVENT THAT REFUSAL IS MET USING TRADITIONAL EXCAVATION METHODS, CONTRACTOR SHALL CONFIRM THAT THE BOTTOM OF THE EXCAVATION IS BEDROCK BY ENSURING A DRY, CLEAN SURFACE THROUGHOUT THE EXTENTS OF THE EXCAVATION GRID. IF BEDROCK CANNOT BE CONFIRMED, CONTRACTOR SHALL USE AN EXCAVATOR HAMMER ATTACHMENT OR OTHER VIABLE EXCAVATION TECHNIQUE TO LOOSEN AND REMOVE BOULDERS TO REACH THE EXCAVATION LIMITS.
6. CONDUCT SOIL EXCAVATION TO THE MAXIMUM EXTENT PRACTICAL CONTAINING RE–USABLE SOIL, NON–TSCA PCB, TSCA PCB, AND TSCA AND NON–TSCA PCB IMPACTED SOIL WITH HIGH LEAD CONCENTRATIONS THAT REQUIRES AMENDING IN A MANNER THAT ALLOWS SEGREGATION OF RE–USABLE AND DIFFERENT WASTE DISPOSAL STREAMS.
7. IF THE HORIZONTAL OR VERTICAL EXCAVATION LIMITS ARE CONSTRAINED BY FACTORS INCLUDING STRUCTURE STABILITY, PROXIMITY TO STRUCTURES, AND ACCESS AGREEMENTS, CONSULT ENGINEER FOR DIRECTION AND RECORD FINAL PCB AND/OR METAL CONCENTRATIONS THROUGH DOCUMENTATION SAMPLING.

GENERAL CONSTRUCTION SEQUENCE:

1. DEVELOP AND SUBMIT PRE–CONSTRUCTION WORK PLANS AND SUBMITTALS.
2. CONDUCT CONSTRUCTION MONITORING THROUGH THE DURATION OF THE WORK AS SPECIFIED.
3. PERFORM FIELD VERIFICATION SURVEY AND CONSTRUCTION LAYOUT. PERFORM ADDITIONAL SURVEY THROUGHOUT CONSTRUCTION FOR LAYOUT, MEASUREMENT FOR PAYMENT, AND FINAL AS–BUILT RECORD.
4. MOBILIZE EQUIPMENT AND INSTALL TEMPORARY FACILITIES AND CONTROLS INCLUDING BUT NOT LIMITED TO VEHICLE DECONTAMINATION PAD, STOCKPILE CONTAINMENT, DEWATER STAGING AREA, TRAFFIC AND ACCESS CONTROLS, AND EROSION AND SEDIMENTATION CONTROLS.
5. SCHEDULE ALL WORK IN GRID AREA WITHIN THE CITY OF BATAVIA PROPERTY CONCURRENTLY TO LIMIT THE AMOUNT OF TIME THAT WORK IS BEING CONDUCTED OFF–PROPERTY. DO NOT SETUP ANY STAGING AREAS ON THE CITY OF BATAVIA PROPERTY AND MOVE ALL TEMPORARY FENCING AND SILT FENCING OFF THE PROPERTY AS SOON AS THE WORK IN THE AREA IS COMPLETE.
6. CLEAR TREES AND SHRUBS WITHIN THE LIMIT OF WORK AS NEEDED TO PROVIDE OR IMPROVE SITE ACCESS. TRANSPORT AND DISPOSE OF CLEARING DEBRIS OFF–SITE AT AN APPROVED LICENSED TREATMENT, STORAGE, AND DISPOSAL FACILITY (TSDF). COORDINATE CLEARING WITH INSTALLATION OF EROSION AND SEDIMENT CONTROLS.
7. ESTABLISH THE ACTIVE EXCLUSION ZONE FOR THE PLANNED PHASE OF WORK. INSTALL ACCESS CONTROLS TO SEPARATE REMEDIAL ACTION WORK FROM THE ADJACENT OFF–SITE PROPERTY OWNERS AND GENERAL PUBLIC. INSTALL CONTROLS TO SEPARATE AREAS CONTAINING HAZARDOUS AND NON–HAZARDOUS WASTES. CONSTRUCT TEMPORARY ENGINEERED CONTROLS AS NEEDED WITHIN THE EXCLUSION ZONE TO MANAGE CLEAN WASTE HANDLING ACTIVITIES SEPARATE FROM CONTAMINATED MATERIAL HANDLING. RELOCATE, SUPPLEMENT, OR REMOVE CONTROLS TO COORDINATE WITH THE PROGRESSION OF THE WORK. CHANGE THE EXCLUSION ZONE BOUNDARY TO COORDINATE WITH PHASE OF WORK BEING PERFORMED.
8. INSTALL, OPERATE, AND MAINTAIN A CONSTRUCTION WATER MANAGEMENT SYSTEM THAT IS CAPABLE OF COMPLYING WITH APPLICABLE PERMITS FOR ON–SITE DISCHARGE OR THE REQUIREMENTS OF AN APPROVED TSDF FOR OFF–SITE DISPOSAL.
9. SEGREGATE CLEAN/RE–USABLE MATERIALS, MATERIALS AMENDED DUE TO HIGH LEAD CONTENT, NON TSCA PCB IMPACTED MATERIALS, AND TSCA PCB IMPACTED MATERIALS. REMOVE CONTAMINATED MATERIALS FROM EXCAVATION CELLS BEFORE PLACING IMPORTED OR RE–USE MATERIALS.
10. SAMPLE THE EXCAVATION LIMITS TO CONFIRM THE SOIL CLEANUP OBJECTIVE OF TOTAL PCBS AND/OR METALS HAS BEEN MET. IF NOT, REFER TO NOTE 2 UNDER EXCAVATED SOIL MATERIALS REMOVAL NOTES.
11. PREPARE SITE FOR WINTER SHUTDOWN AS INDICATED IN THE SPECIFICATIONS AND CONDUCT INSPECTIONS AND MAINTENANCE AS NEEDED DURING WINTER MONTHS.
12. INSTALL NEW MONITORING WELLS. EXACT DEPTHS OF WELL SCREENS WIL LBE DETERMINED IN THE FIELD. SOIL CUTTINGS SHALL BE PROPERLY DISPOSED OFFSITE WITH EXCAVATED SOIL. WATER FOR WELL DEVELOPMENT SHALL FOLLOW PROTOCOLS IN THE CONSTRUCTION WATER MANAGEMENT SPECIFICATION.
13. RESTORE THE SITE AS SHOWN IN THE RESTORATION PLANS AND DETAILS.
14. RELOCATE AND REINSTALL TEMPORARY FACILITIES AND CONTROLS AS NEEDED TO EXECUTE SUBSEQUENT PHASES OF WORK AS DESCRIBED ABOVE.
15. UPON COMPLETION OF ALL PHASES OF EXCAVATION AND RESTORATION, REMOVE TEMPORARY FACILITIES AND CONTROLS, ACCESS CONTROLS, AND EROSION AND SEDIMENT CONTROLS. PERFORM FINAL SITE CLEANUP.
16. DEMOBILIZE EQUIPMENT FROM SITE.
17. MODIFY THE ACTUAL SEQUENCE OF CONSTRUCTION TO ACCOMMODATE CHANGING CONDITIONS OR COORDINATION REQUIREMENTS.

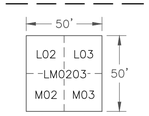
ABBREVIATIONS:

AC	ACRE
APPROX	APPROXIMATELY
AVE	AVERAGE
BM	BENCHMARK
BTTM	BOTTOM OF EXCAVATION
℄	CENTER LINE
CM	CENTIMETER
C.O.	CLEAN OUT
CONC	CONCRETE
CP	CONTROL POINT (SURVEY)
D	DEPTH
(D)	DEED
D∞	MEDIAN STONE SIZE
DEPT	DEPARTMENT
DIA. ø	DIAMETER
E	EASTING, EAST, END
EG.	EXISTING GRADE
EL. ELEV	ELEVATION
E.O.G.	EDGE OF WATER
EZ	EXCLUSION ZONE
FND.	FOUND
'	FOOT, FEET, MINUTES
G	GAS
GW	GROUNDWATER
H	HORIZONTAL
HDPE	HIGH DENSITY POLYETHYLENE
HR	HOUR
ID	IDENTIFICATION, INSIDE DIAMETER
"	INCHES, SECONDS
INV	INVERT
IRM	INTERIM REMEDIAL MEASURE
L.	LIBER
LB	POUND
LF	LINEAR FEET
LOW	LIMIT OF WORK
LTD.	LIMITED
M	MEASURED
MAG	MAGNETIC
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
MM	MILLIMETER
MW	MONITORING WELL
N	NORTHING, NORTH
NE	NORTHEAST
NO.	NUMBER
NTS	NOT TO SCALE
NW	NORTHWEST
NYSDEC	NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, DEPARTMENT
NYSDOT	NEW YORK STATE DEPARTMENT OF TRANSPORTATION
OC	ON CENTER
OD	OUTSIDE DIAMETER
O.H.	OVER HEAD
OHE	OVERHEAD ELECTRIC
OS	OFFSET
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
OZ	OUNCE
P.	PAGE
PCB	POLYCHLORINATED BIPHENYLS
ℙ	PROPERTY LINE
PPM	PARTS PER MILLION
PSI	POUNDS PER SQUARE INCH
PT	POINT, PRESSURE TREATED
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
S	SOUTH, SLOPE, START
SCO	SOIL CLEANUP OBJECTIVE
SD	STORM DRAIN
SE	SOUTHEAST
SF	SQUARE FEET OR SILTATION FENCE
SQ.	SQUARE
SS	STANDARD SPECIFICATIONS, SANITARY SEWER
ST	STORM
SW	SOUTHWEST
TC	TURBIDITY CURTAIN
TCLP	TOXICITY CHARACTERISTIC LEACHING PROCEDURE
T.M.	TAX MAP
TSCA	TOXIC SUBSTANCE CONTROL ACT
TSDF	TREATMENT, STORAGE AND DISPOSAL FACILITIES
TYP	TYPICAL
UD	UNDER DRAIN
U.G.	UNDERGROUND
V	VERTICAL
W	WIDTH, WEST
YR	YEAR

LEGEND:

EXISTING		PROPOSED
	PROPERTY LINE	
	EASEMENT LINE	
900	TOPOGRAPHIC CONTOUR (MAJOR, 5' INTERVAL)	900
899	TOPOGRAPHIC CONTOUR (MINOR, 1' INTERVAL)	899
	EDGE OF PAVEMENT	
o	CHAIN LINK FENCE	o
	WOOD FENCE	
	BUILDING	
	TREE LINE	
ST	STORM DRAIN PIPE	
OHU OHE	OVERHEAD UTILITY/OVERHEAD WIRE	
G	GAS LINE	
	CATCH BASIN	
S	SANITARY SEWER MH	
	UTILITY POLE	
690.22+	SPOT ELEVATION	
	SIGN	
	WATER GATE VALVE	
	MAILBOX	
MW–106	MONITORING WELL	MW–201
	MONITORING WELL TO BE ABANDONED	MW–106
GM	GAS METER	
	SILTATION FENCE	SF
	APPROXIMATE LIMIT OF WORK	LOW
	TEMPORARY CHAIN LINK FENCE	
	FEDERAL WETLAND	
WET	DELINEATED WETLAND	
	50' WETLAND BUFFER	
	BOTTOM OF EXCAVATION	

50–FOOT AND 25–FOOT GRID EXCAVATION CELL



12.5 EXCAVATION GRID CELL
BTTM=BOTTOM OF EXCAVATION

>=50 PPM PCB SAMPLE LOCATION	
>=25 PPM PCB & <50 PPM PCB SAMPLE LOCATION	
>=1 PPM PCB & <25 PPM PCB SAMPLE LOCATION	
<1 PPM PCB SAMPLE LOCATION	
NON–DETECT SAMPLE LOCATION	
<50 PPM PCB EXCAVATION MATERIAL BTTM=BOTTOM ELEVATION AVG.D=AVERAGE DEPTH	LM1011 BTTM 897.0 AVG.D=5.0
>50 PPM PCB EXCAVATION MATERIAL TSCA BTTM=BOTTOM OF PCB >50 PPM	LM1011 TSCA BTTM 899.4
>50 PPM PCB ABOVE <50 PPM PCB EXCAVATION MATERIAL TSCA BTTM=BOTTOM OF PCB >50 PPM EXC BTTM=BOTTOM OF PCB <50 PPM	M08 TSCA BTTM 897.0 EXC. BTTM 895.4
CELL SAMPLE LOCATION WITH LEAD >5,000 PPM SOIL TO BE AMENDED TO RENDER NON–LEACHABLE	K40
WETLAND RESTORATION	
UPLAND RESTORATION	
GRAVEL RESTORATION	
BITUMINOUS PAVEMENT RESTORATION	

REFERENCE LEGEND:

A1 / C–103 — DETAIL IDENTIFICATION / DRAWING DETAIL LOCATED

STATE OF NEW YORK ★ ENGINEER ★ RICHARD S EGAN 097713 LICENSED PROFESSIONAL 6-25-22

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LEGEND, ABBREVIATIONS, AND GENERAL NOTES

VERIFY SCALE
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		30% DESIGN SUBMISSION			

BY	APVD
MAP	RSE
MAP	RSE
MAP	MJS
MAP	MJS

STATE OF NEW YORK ★ RICHARD S EGAN ★ 097713 ★ LICENSED PROFESSIONAL ENGINEER
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OVERALL EXISTING CONDITIONS AND KEY SHEET PLAN

VERIFY SCALE
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SHEET	3 OF 19

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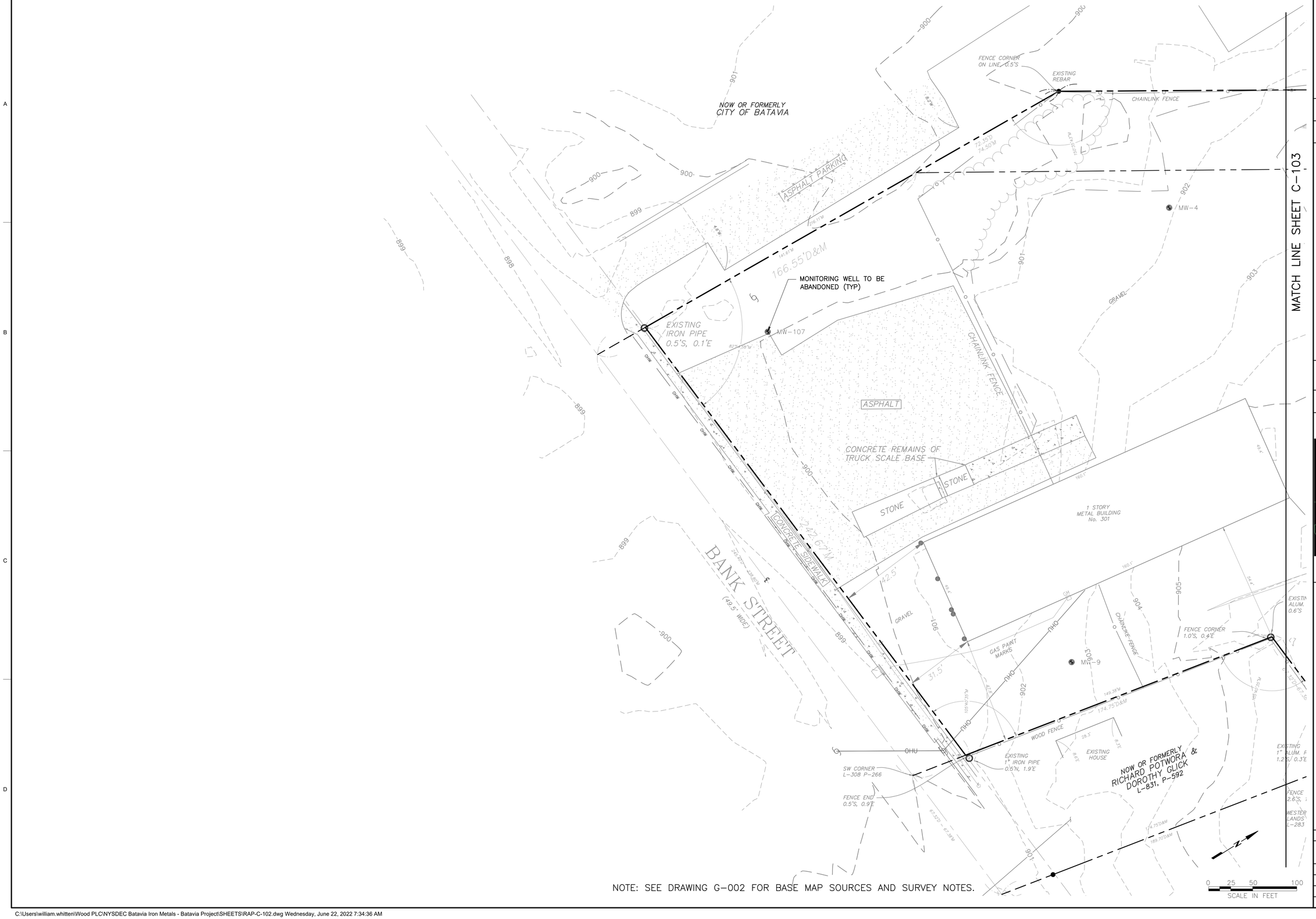

NOTE: SEE DRAWING G-002 FOR BASE MAP SOURCES AND SURVEY NOTES.

STATE OF NEW YORK RICHARD S EGAN 097713 LICENSED PROFESSIONAL ENGINEER
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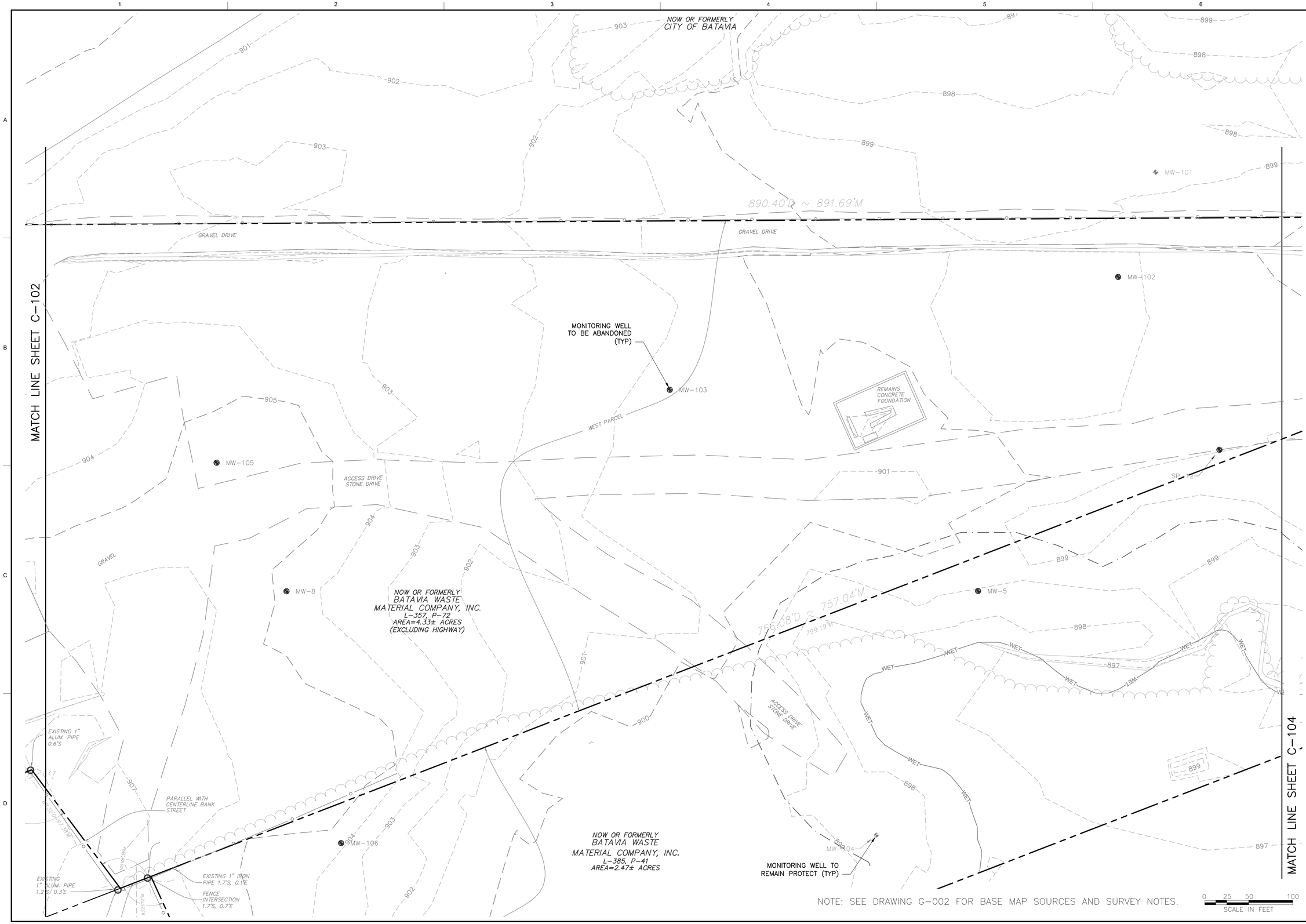
EXISTING CONDITIONS
PLAN 1

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"

DATE	JUNE 2022
PROJ	3617-20-75081
DWG	C-102
SHEET	4 OF 19



STATE OF NEW YORK
RICHARD S EGAN
097113
LICENSED PROFESSIONAL ENGINEER
6-25-22

NO.	DATE	DSGN	DRWN	CHK	APVD
D	6/25/22	M. PETERS	W.WHITTEN	J.WELCH	R.EGAN
C	5/20/22	100& DESIGN - ISSUED FOR BID	MAP	RSE	
B	12/17/20	RE-ISSUED 95% DESIGN SUBMISSION	MAP	RSE	
A	4/30/20	95% DESIGN SUBMISSION	MAP	MJS	
		30% DESIGN SUBMISSION	MAP	MJS	
		REVISION	BY	APVD	

Department of Environmental Conservation
NEW YORK STATE

REMEDIAL ACTION PLAN
BATAVIA IRON AND METAL SITE
BATAVIA, NEW YORK
NYSDEC SITE NO. 819018
NYSDEC CONTRACT NO. D011945

MACTEC Engineering and Consulting, P.C.
P.O. Box 5075, 511 Congress Street
Portland, Maine 04112-7050
(207) 775-5401

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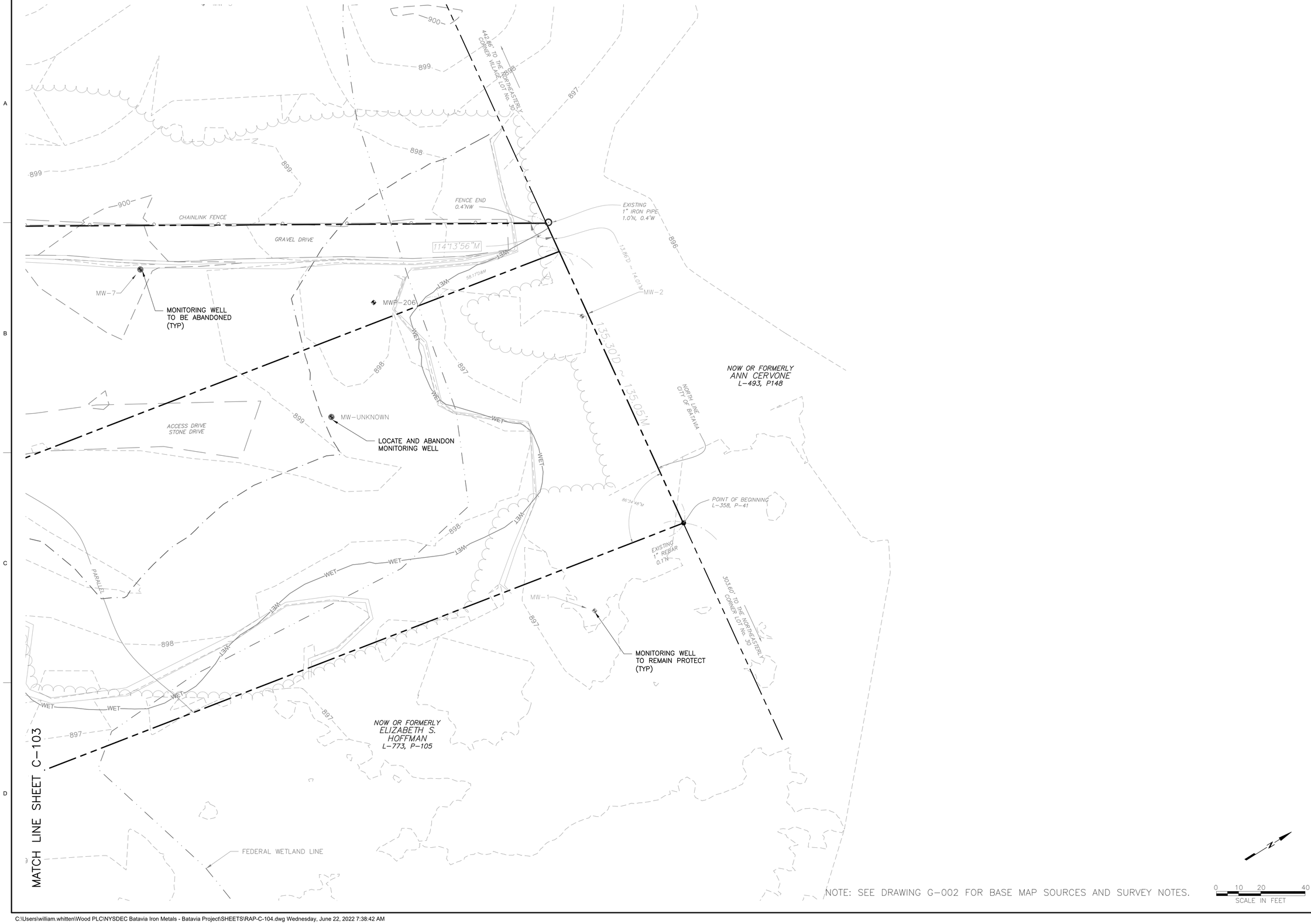
EXISTING CONDITIONS
PLAN 2

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"

DATE	JUNE 2022
PROJ	3617-20-75081
DWG	C-103
SHEET	5 OF 19

C:\Users\william.whitten\Wood PLC\NYSDEC Batavia Iron Metals - Batavia Project\SHEETS\RAP-C-103.dwg Wednesday, June 22, 2022 7:36:49 AM



NOTE: SEE DRAWING G-002 FOR BASE MAP SOURCES AND SURVEY NOTES.

0 10 20 40
SCALE IN FEET

STATE OF NEW YORK
RICHARD S EGAN
097113
LICENSED PROFESSIONAL ENGINEER
6-25-22

NO.	DATE	DSGN	DRWN	CHK	APVD
D	6/25/22	M. PETERS	W. WHITTEN	J. WELCH	R. EGAN
C	5/20/22				
B	12/17/20				
A	04/30/20				

REVISION	BY	APVD
100% DESIGN - ISSUED FOR BID	MAP	RSE
RE-ISSUED 95% DESIGN SUBMISSION	MAP	RSE
95% DESIGN SUBMISSION	MAP	MJS
30% DESIGN SUBMISSION	MAP	MJS

NEW YORK STATE Department of Environmental Conservation

REMEDIAL ACTION PLAN
BATAVIA IRON AND METAL SITE
BATAVIA, NEW YORK
NYSDEC SITE NO. 819018
NYSDEC CONTRACT NO. D011945

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EXISTING CONDITIONS
PLAN 3

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"

DATE	JUNE 2022
PROJ	3617-20-75081
DWG	C-104
SHEET	6 OF 19

SILTATION FENCE B1 / C-502

INLET FILTER D5 / C-502

REMEDIATED CLEAN LINE BY OTHERS

50-FOOT GRID LINE

25-FOOT GRID LINE

C2 / C-502 STOCKPILE CONTAINMENT AREA FOR WASTE SEGREGATION, WATER TREATMENT AND DECONTAMINATION

CONSTRUCTION BASELINE (SEE PROFILE ON DRAWING C-201)

EXISTING FOUNDATION TO BE REMOVED

EXISTING MONITORING WELL TO BE ABANDONED

CONTRACTOR STAGING AND STORAGE AREA

CHAIN LINK FENCE DOUBLE GATE B3 / C-503

EXISTING PAVED ROAD

STABILIZED CONSTRUCTION ENTRANCE B5 / C-502

EXISTING BUILDING FOR CONTRACTOR USE FOR WATER TREATMENT AREA

VEHICLE DECONTAMINATION PAD D3 / C-502

SILTATION FENCE B1 / C-502

AUGMENTED SILTATION FENCE B3 / C-502

TREE CLEARING LIMIT

AUGMENTED SILTATION FENCE OR TURBIDITY CURTAIN ALONG WETLAND AS APPROPRIATE. (AUGMENTED SILTATION FENCE LINETYPE SHOWN, SEE DETAIL D1 ON C-502 FOR TURBIDITY CURTAIN DETAIL)

NOTE: SEE DRAWING G-002 FOR BASE MAP SOURCES AND SURVEY NOTES.

0 25 50 100
SCALE IN FEET

STATE OF NEW YORK RICHARD S EGAN LICENSED PROFESSIONAL ENGINEER 097113
6-25-22

NO.	DATE	DSGN	DRWN	CHK	APVD
D	6/25/22	M. PETERS	W. WHITTEN	J. WELCH	R. EGAN
C	5/20/22				
B	12/17/20				
A	04/30/20				

REVISION	BY	APVD
100% DESIGN - ISSUED FOR BID	MAP	RSE
RE-ISSUED 95% DESIGN SUBMISSION	MAP	RSE
95% DESIGN SUBMISSION	MAP	MJS
30% DESIGN SUBMISSION	MAP	MJS

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Department of Environmental Conservation
NEW YORK STATE

REMEDIAL ACTION PLAN
BATAVIA IRON AND METAL SITE
BATAVIA, NEW YORK
NYSDEC SITE NO. 819018
NYSDEC CONTRACT NO. D011945

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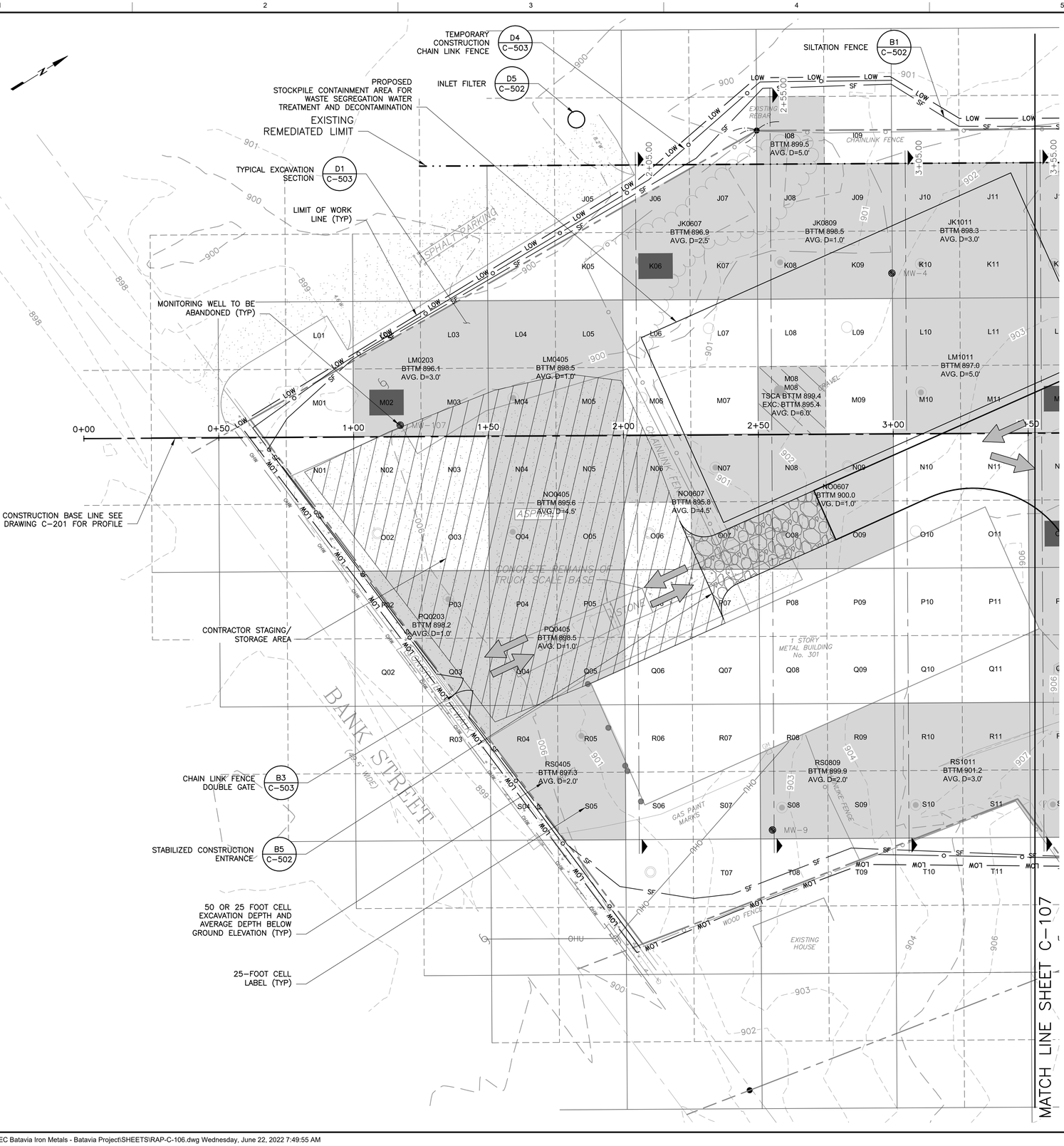
MACTEC

SITE LAYOUT AND SOIL EROSION AND SEDIMENT CONTROL PLAN

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"

DATE	JUNE 2022
PROJ	3617-20-75081
DWG	C-105
SHEET	7 OF 19



NOTES: (APPLICABLE TO SHEETS C–106 THROUGH C–108)

1. SEE DRAWING G–002 FOR GENERAL NOTES, LEGEND, AND ABBREVIATIONS.
2. EACH GRID CELL IDENTIFIED WITH A UNIQUE ALPHANUMERIC LABEL IS AN APPROXIMATE 625 SQUARE FOOT AREA (25 FEET X 25 FEET) OR REPRESENTATIVE QUADRANT ON THE CITY OF BATAVIA PROPERTY, WHERE INVESTIGATION OR PREVIOUS INVESTIGATION HAS CONFIRMED THAT THE SOIL WITHIN CONTAINS, OR IS LIKELY TO CONTAIN, PCB REMEDIATION WASTE. REMEDIATION REQUIRES EXCAVATION OF THE SOIL WITHIN THE CELL AND PROPER SEGREGATION AND OFF–SITE DISPOSAL. GRIDS IDENTIFIED WITH HATCHING INDICATES THAT SOIL WITHIN THE GRID (THE ENTIRE DEPTH OR A PORTION THEREOF) CONTAINS PCB CONCENTRATIONS GREATER THAN 50 PPM WILL REQUIRE OFF–SITE DISPOSAL AT A TSCA PERMITTED FACILITY.
3. ACTUAL EXCAVATION LIMITS (HORIZONTAL AND VERTICAL) SHALL BE DETERMINED THROUGH FIELD SURVEY AND CONFIRMATION TESTING. THE CELL'S EXCAVATED BOTTOM AND SIDEWALL SHALL BE SAMPLED AND TESTED TO VERIFY THAT THE SOIL CLEANUP OBJECTIVE (SCO), FOR TOTAL PCBS AND/OR METALS HAS BEEN ACHIEVED. IF THE CONFIRMATION TEST RESULTS INDICATE THE SCO HAS NOT BEEN ACHIEVED, AN ADDITIONAL 6 INCHES (0.5 FEET) SHALL BE REMOVED WITHIN THE APPROXIMATE 156.25 SQUARE FOOT SUBPART (12.5' X 12.5' GRID QUADRANT) OR TO THE LIMITS DEFINED BY ADJACENT TESTING AS AGREED TO BY THE ENGINEER. THE EXCAVATION AND CONFIRMATION SEQUENCE SHALL BE REPEATED UNTIL CONFIRMATION TESTING VERIFIES THAT THE SCO HAS BEEN ACHIEVED.
4. ADJACENT CELLS WITH BOTTOM EXCAVATION ELEVATION DIFFERENCES OF 0.5 FEET OR LESS SHALL BE CONSIDERED NOT TO HAVE AN EXCAVATION SIDEWALL BETWEEN THEM. THEREFORE, NO EXCAVATION SIDEWALL TESTING BETWEEN THE CELLS IS REQUIRED; OTHERWISE, EXCAVATION SIDEWALL TESTING BETWEEN CELLS IS REQUIRED.
5. THE VERTICAL EXCAVATION LIMIT FOR ALL CELLS SHALL BE TO THE ELEVATIONS INDICATED ON THE DRAWINGS AT A MINIMUM. DEEPER EXCAVATIONS MAY BE REQUIRED AS DETERMINED BY SURVEY AND CONFIRMATION TESTING. THE CONTRACTOR SHALL PROVIDE NECESSARY SHEETING AND SHORING AND/OR SHALL SLOPE AND BENCH THE EXCAVATION TO PERFORM THE WORK IN A SAFE MANNER AND TO SUPPORT THE REQUIRED FINAL DEPTH OF EXCAVATION.
6. EXCAVATION DEPTHS (D=X') NOTED IN EACH EXCAVATION CELL ARE PROVIDED FOR GENERAL REFERENCE ONLY. ALL VERTICAL EXCAVATIONS LIMITS SHALL BE BASED ON THE ELEVATIONS PROVIDED AND THE RESULTS OF CONFIRMATION TEST RESULTS. PROPOSED VERTICAL EXCAVATION LIMITS OF GRID CELLS ENCOMPASSING INVESTIGATION SAMPLE LOCATIONS ARE 0.5 FEET BELOW THE KNOWN ELEVATION OF IMPACTED SOIL. PROPOSED VERTICAL EXCAVATION LIMITS OF GRID CELLS WITHOUT PREVIOUS INVESTIGATION SAMPLE LOCATIONS ARE 0.5 FEET BELOW THE MEAN ELEVATION CALCULATED WITHIN EACH GRID CELL BASED ON SURFACE ANALYSIS OF EXISTING CONDITIONS BASE SURVEY.
7. SOILS FROM CELLS DELINEATED WITH >5,000 PPM OF LEAD SHALL BE STOCKPILED AND SEGREGATED IN ACCORDANCE WITH THEIR TSCA WASTE STREAM DESIGNATION. COMPOSITE SAMPLES SHALL BE COLLECTED FROM THE STOCKPILED SOIL TO DETERMINE SUITABILITY FOR DISPOSAL. THE CONTRACTOR SHALL, AS NECESSARY, AMEND LEAD CONTAINING SOILS TO RENDER NON–HAZARDOUS IN ACCORDANCE WITH TSDF REQUIREMENTS.

STATE OF NEW YORK RICHARD S EGAN 097113 LICENSED PROFESSIONAL ENGINEER 6-25-22

NO.	DATE	DSGN	DRWN	CHK	APVD	BY
D	6/25/22	M. PETERS	W. WHITTEN	J. WELCH	R. EGAN	MAP
C	5/20/22					MAP
B	12/17/20					MAP
A	04/30/20					MAP

REVISION

100% DESIGN - ISSUED FOR BID
RE-ISSUED 95% DESIGN SUBMISSION
95% DESIGN SUBMISSION
30% DESIGN SUBMISSION

RSE RSE MJS MJS

NEW YORK STATE Department of Environmental Conservation

REMEDIAL ACTION PLAN
BATAVIA IRON AND METAL SITE
BATAVIA, NEW YORK
NYSDEC SITE NO. 819018
NYSDEC CONTRACT NO. D011945

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(207) 775–5401

MACTEC

EXCAVATION PLAN 1

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"

DATE	JUNE 2020
PROJ	3617-20-75081
DWG	C-106
SHEET	8 OF 19

NOTES:

1. SEE DRAWING G-002 FOR GENERAL NOTES, LEGEND, AND ABBREVIATIONS.
2. SEE EXCAVATION NOTES ON DRAWING C-106.

C1 C-502 PROPOSED STOCKPILE CONTAINMENT AREA FOR WASTE SEGREGATION WATER TREATMENT AND DECONTAMINATION

D3 C-502 VEHICLE DECONTAMINATION PAD

MONITORING WELL TO BE ABANDONED (TYP)

CONSTRUCTION BASE LINE SEE DRAWING C-201 FOR PROFILE

SILTATION FENCE B1 C-502

TYPICAL EXCAVATION SECTION D1 C-503

EXISTING REMEDIATED LIMIT

25-FOOT CELL LABEL (TYP)

50 OR 25 FOOT CELL EXCAVATION DEPTH AND AVERAGE DEPTH BELOW GROUND ELEVATION (TYP)

EXISTING CONCRETE FOUNDATION TO BE DEMOLISHED

GRAVEL DRIVE

ACCESS DRIVE STONE DRIVE

CHAINLINK FENCE

REMAINS CONCRETE FOUNDATION

TREE CLEARING LIMIT (TYP)

B1 C-502 SILTATION FENCE

D4 C-503 TEMPORARY CONSTRUCTION CHAIN LINK FENCE

MATCH LINE SHEET C-106

MATCH LINE SHEET C-108

N/F ELIZABETH S. HOFFMAN L-773, P-105

SCALE IN FEET 0 10 20 40

C:\Users\william.whitten\Wood PLC\NYSDEC Batavia Iron Metals - Batavia Project\SHEETS\RAP-C-107.dwg Wednesday, June 22, 2022 7:52:41 AM

STATE OF NEW YORK RICHARD S EGAN 097113 LICENSED PROFESSIONAL ENGINEER 6-25-22

NO.	DATE	DSGN	DRWN	CHK	APVD	BY	APVD
D	6/25/22	M. PETERS	W. WHITTEN	J. WELCH		MAP	RSE
C	5/20/22					MAP	RSE
B	12/17/20					MAP	MJS
A	03/01/20					MAP	MJS

REVISION

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95% DESIGN SUBMISSION
30% DESIGN SUBMISSION

R. EGAN

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NEW YORK STATE

REMEDIAL ACTION PLAN
BATAVIA IRON AND METAL SITE
BATAVIA, NEW YORK
NYSDEC SITE NO. 819018
NYSDEC CONTRACT NO. D011945

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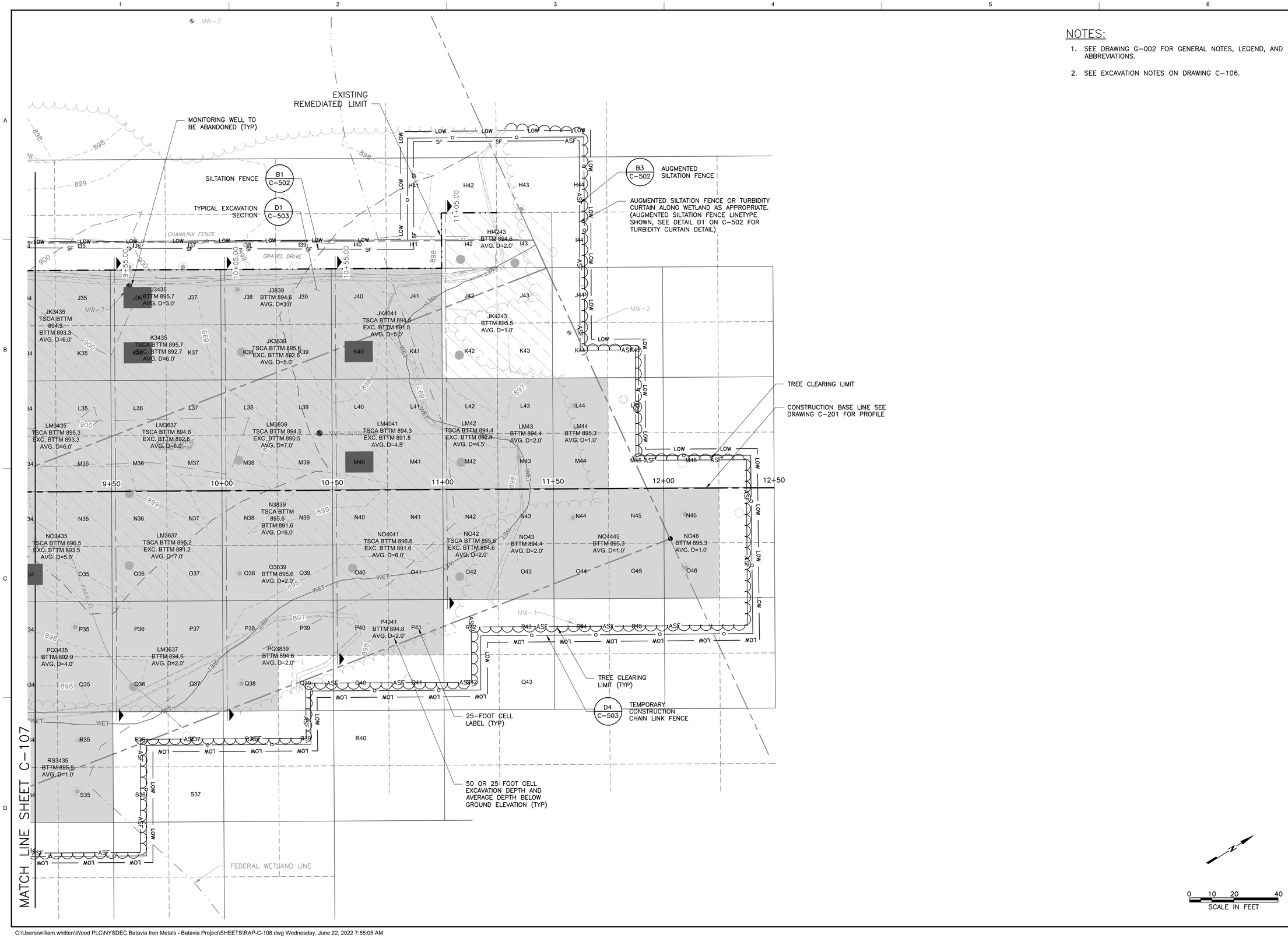
EXCAVATION PLAN 2

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"

DATE	JUNE 2022
PROJ	3617-20-75081
DWG	C-107
SHEET	9 OF 19



NOTES:

1. SEE DRAWING G-002 FOR GENERAL NOTES, LEGEND, AND ABBREVIATIONS.
2. SEE EXCAVATION NOTES ON DRAWING C-106.

NO.	DATE	DRWN	REVISION	CHK	APVD
D	6/25/22	W. WHITEN	100% DESIGN - ISSUED FOR BID	J. WELCH	R. EGAN
C	5/20/22		RE-ISSUED 95% DESIGN SUBMISSION		
B	12/17/20		95% DESIGN SUBMISSION		
A	03/01/20		30% DESIGN SUBMISSION		

DSGN: M. PETERS

STATE OF NEW YORK RICHARD S EGAN 097113 LICENSED PROFESSIONAL ENGINEER 6-25-22

NEW YORK STATE Department of Environmental Conservation

REMEDIAL ACTION PLAN
BATAVIA IRON AND METAL SITE
BATAVIA, NEW YORK
NYSDEC SITE NO. 819018
NYSDEC CONTRACT NO. D011945

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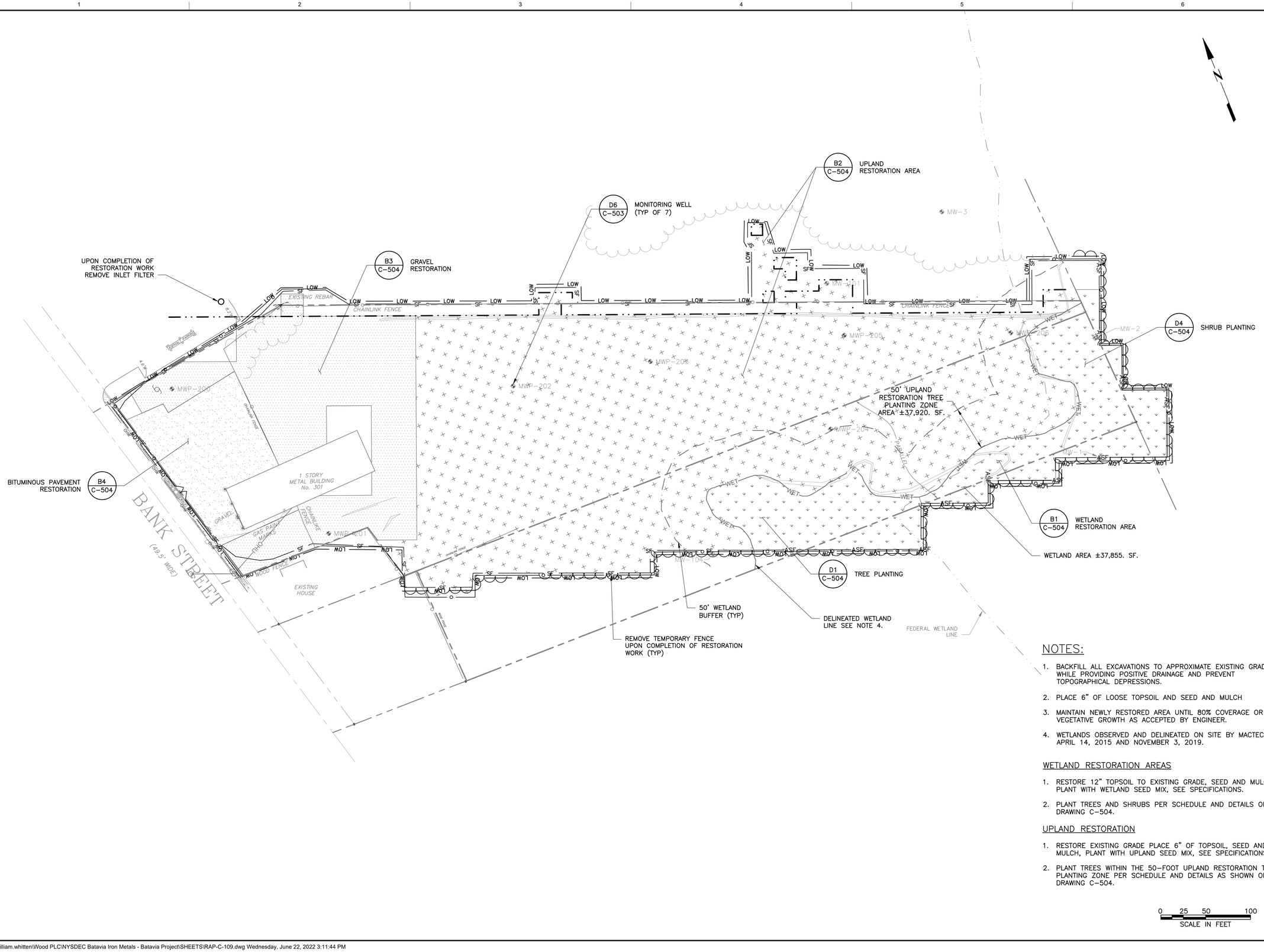
EXCAVATION PLAN 3

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"

0 10 20 40
SCALE IN FEET

DATE	JUNE 2022
PROJ	3617-20-75081
DWG	C-108
SHEET	10 OF 19



NOTES:

1. BACKFILL ALL EXCAVATIONS TO APPROXIMATE EXISTING GRADES WHILE PROVIDING POSITIVE DRAINAGE AND PREVENT TOPOGRAPHICAL DEPRESSIONS.
2. PLACE 6" OF LOOSE TOPSOIL AND SEED AND MULCH
3. MAINTAIN NEWLY RESTORED AREA UNTIL 80% COVERAGE OR VEGETATIVE GROWTH AS ACCEPTED BY ENGINEER.
4. WETLANDS OBSERVED AND DELINEATED ON SITE BY MACTEC ON APRIL 14, 2015 AND NOVEMBER 3, 2019.

WETLAND RESTORATION AREAS

1. RESTORE 12" TOPSOIL TO EXISTING GRADE, SEED AND MULCH, PLANT WITH WETLAND SEED MIX, SEE SPECIFICATIONS.
2. PLANT TREES AND SHRUBS PER SCHEDULE AND DETAILS ON DRAWING C-504.

UPLAND RESTORATION

1. RESTORE EXISTING GRADE PLACE 6" OF TOPSOIL, SEED AND MULCH, PLANT WITH UPLAND SEED MIX, SEE SPECIFICATIONS.
2. PLANT TREES WITHIN THE 50-FOOT UPLAND RESTORATION TREE PLANTING ZONE PER SCHEDULE AND DETAILS AS SHOWN ON DRAWING C-504.

STATE OF NEW YORK · RICHARD S EGAN · 097113 · LICENSED PROFESSIONAL ENGINEER
6-25-22

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C	5/20/22					MAP	RSE
B	12/17/20					MAP	MJS
A	4/30/20					MAP	MJS

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RE-ISSUED 95% DESIGN SUBMISSION
95% DESIGN SUBMISSION
30% DESIGN SUBMITTLE
REVISION

Department of Environmental Conservation
NEW YORK STATE

REMEDIAL ACTION PLAN
BATAVIA IRON AND METAL SITE
BATAVIA, NEW YORK
NYSDEC SITE NO. 819018
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MACTEC Engineering and Consulting, P.C.
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(207) 775-5401

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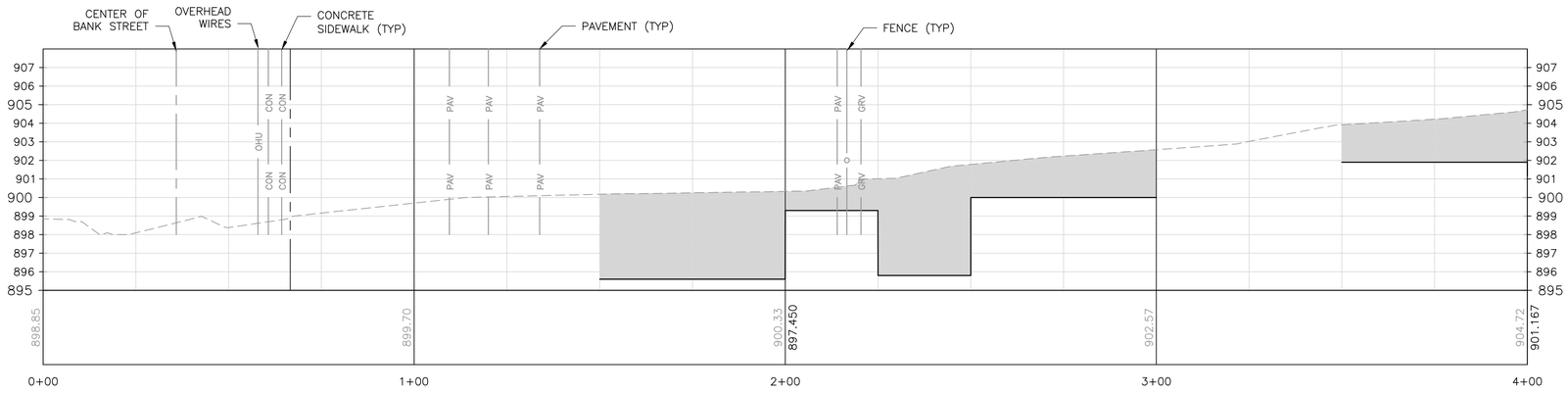
SITE RESTORATION PLAN

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"

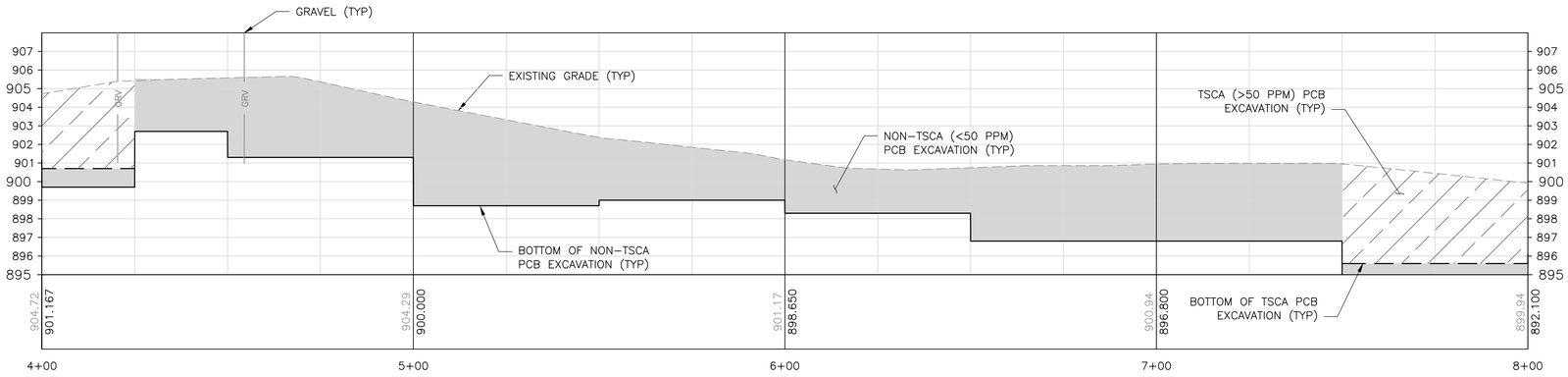
DATE	JUNE 2022
PROJ	3617-20-75081
DWG	C-109
SHEET	11 OF 19



CONSTRUCTION BASE LINE

CONTINUE BELOW

CONTINUE ABOVE



CONSTRUCTION BASE LINE

CONTINUE BELOW

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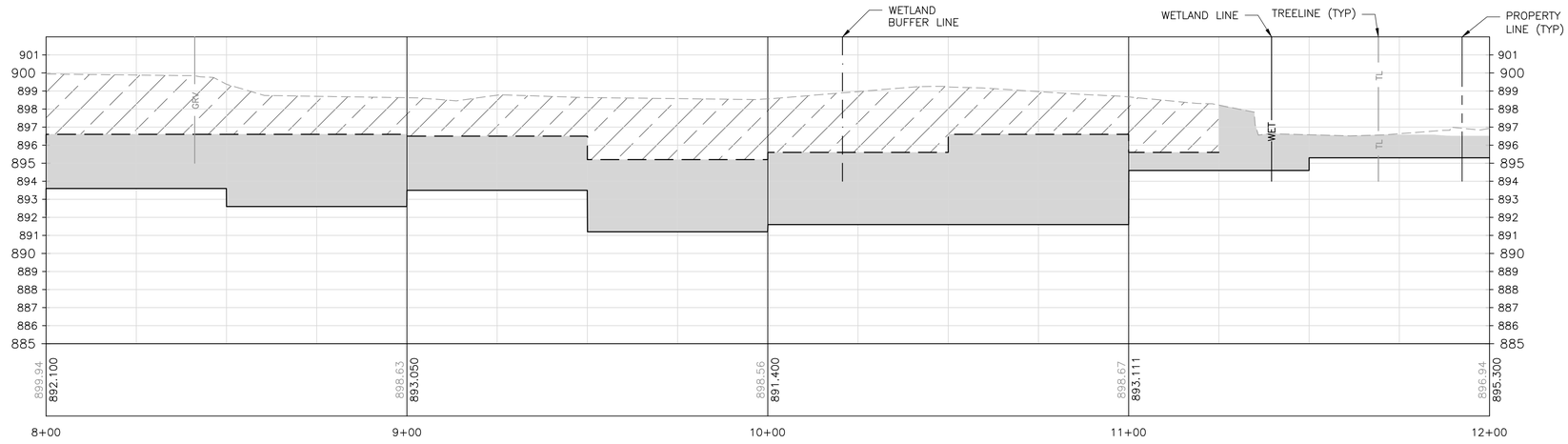

CONSTRUCTION BASE LINE

0 10 20 40
SCALE IN FEET
HORIZONTAL SCALE: 1" = 20'

0 2 4 8
SCALE IN FEET
VERTICAL SCALE: 1" = 4'

STATE OF NEW YORK ★ RICHARD S EGAN ★ 097113 ★ LICENSED PROFESSIONAL ENGINEER
6-25-22

NO.	DATE	DSGN	DRWN	CHK	APVD	BY	APVD
D	6/25/22	M. PETERS	W.WHITTEN	J. WELCH		MAP	RSE
C	5/20/22					MAP	RSE
B	12/17/20					MAP	MJS
A	4/30/20					MAP	MJS

REVISION — R.EGAN

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95% DESIGN SUBMISSION
30% DESIGN SUBMISSION

Department of Environmental Conservation
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REMEDIAL ACTION PLAN
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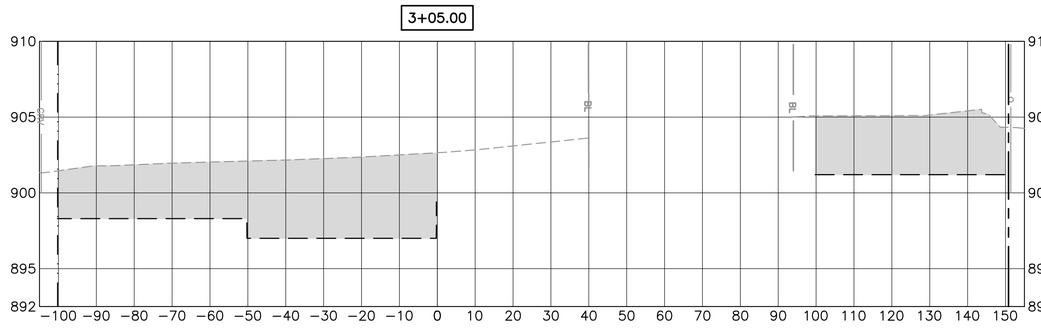
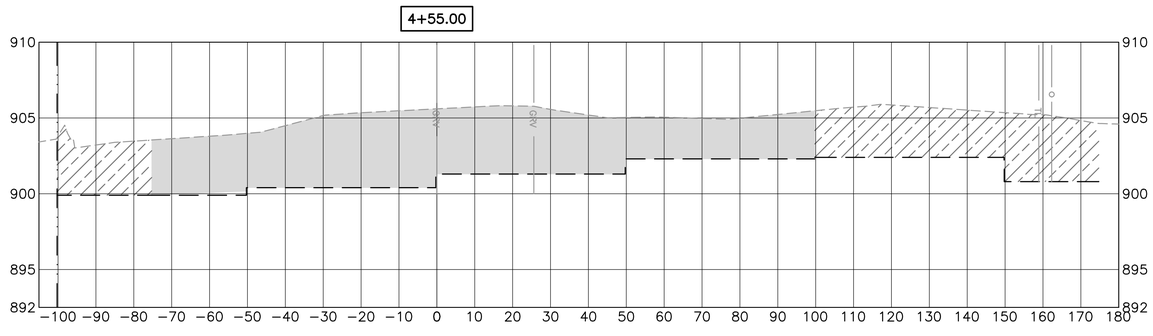
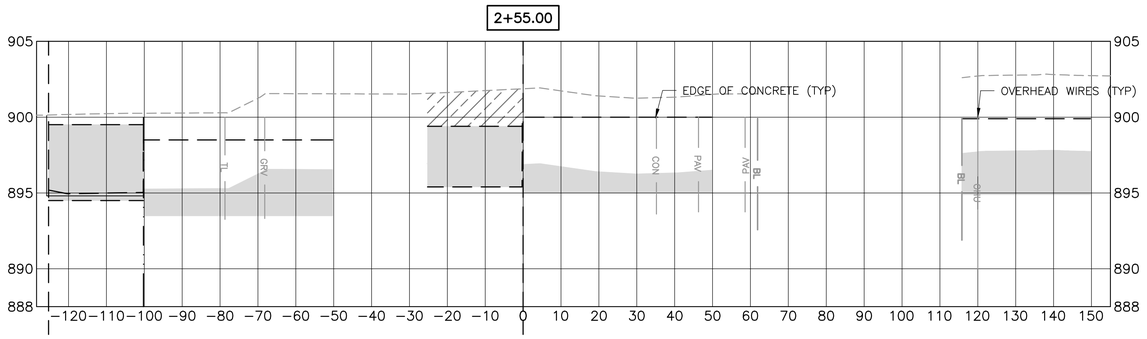
BASELINE PROFILE

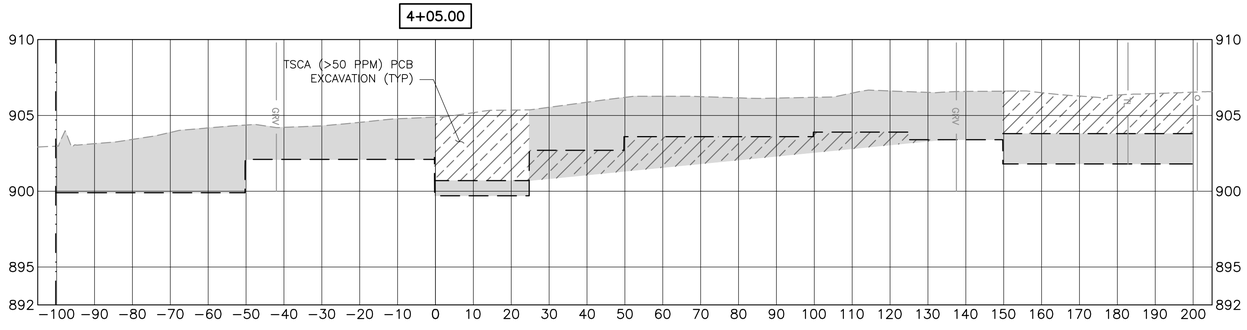
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"

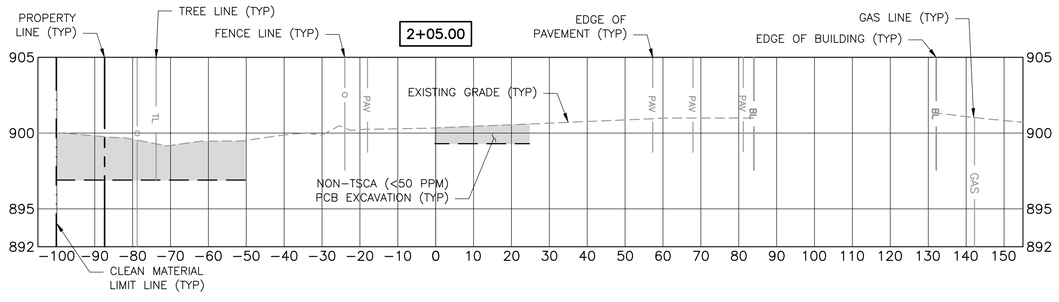
DATE	JUNE 2022
PROJ	3617-20-75081
DWG	C-201
SHEET	12 OF 19

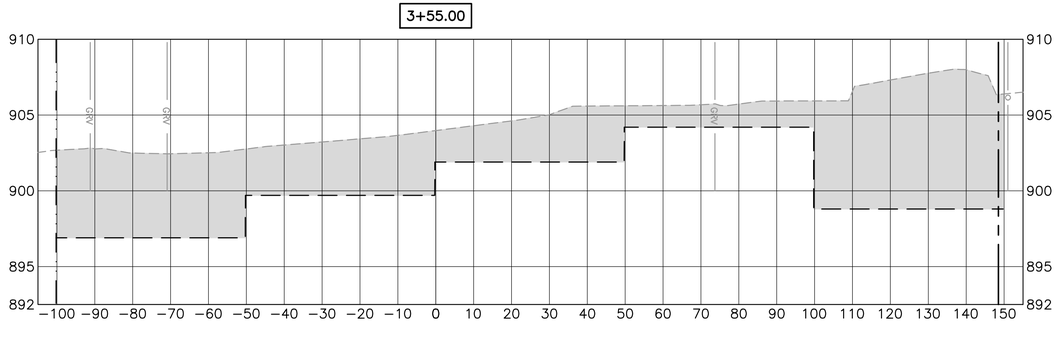












NOTE:
DUE TO EXCAVATION GRID SIZES FOR EXCAVATION AREAS NORTH OF THE SITE BOUNDARY, NOT ALL OF THE GRIDS ARE DEPICTED ON THESE SECTIONS WHICH GENERALLY DEPICT 50' X 50' GRIDS.

0 10 20 40
SCALE IN FEET
HORIZONTAL SCALE: 1" = 20'

0 2 4 8
SCALE IN FEET
VERTICAL SCALE: 1" = 4'

STATE OF NEW YORK ★ RICHARD S EGAN ★ 097713 ★ LICENSED PROFESSIONAL ENGINEER
6-25-22

NO.	DATE	DSGN	DRWN	CHK	APVD
D	6/25/22	M. PETERS	W. WHITTEN	J. WELCH	R. EGAN
C	5/20/22				
B	12/17/20				
A	04/30/20				

NO.	REVISION	BY	APVD
D	100% DESIGN - ISSUED FOR BID	MAP	RSE
C	RE-ISSUED 95% DESIGN SUBMISSION	MAP	RSE
B	95% DESIGN SUBMISSION	MAP	MJS
A	30% DESIGN SUBMISSION	MAP	MJS

Department of Environmental Conservation
NEW YORK STATE

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NYSDEC SITE NO. 819018
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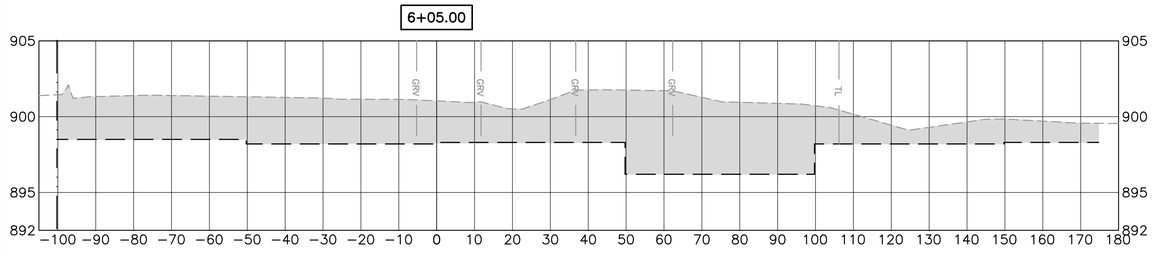
P.O. Box 1063, 511 Congress Street
Portland, Maine 04112-7050
(207) 775-5401

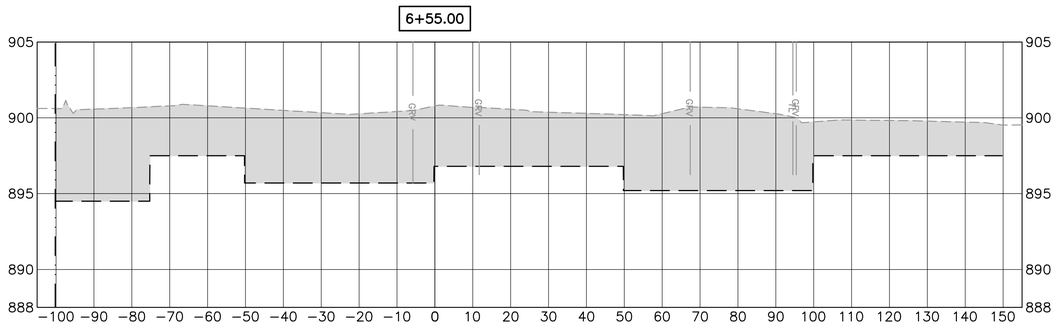
MACTEC

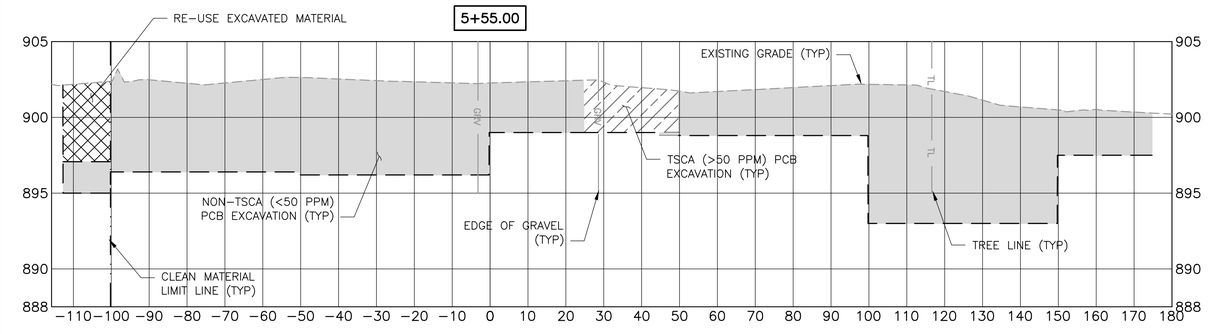
CROSS SECTIONS 1

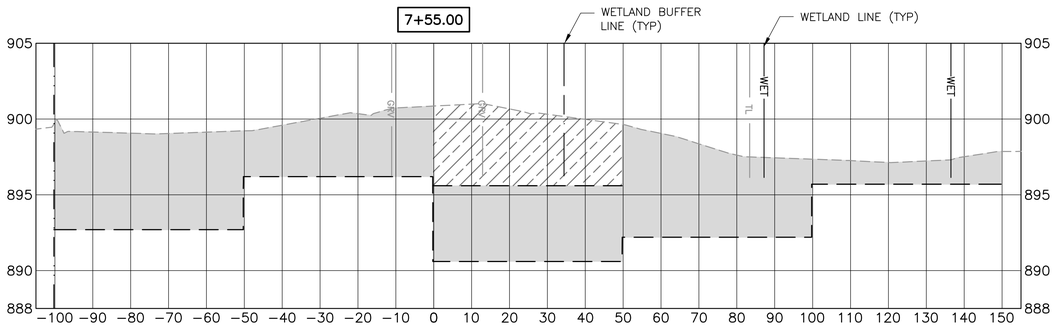
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"

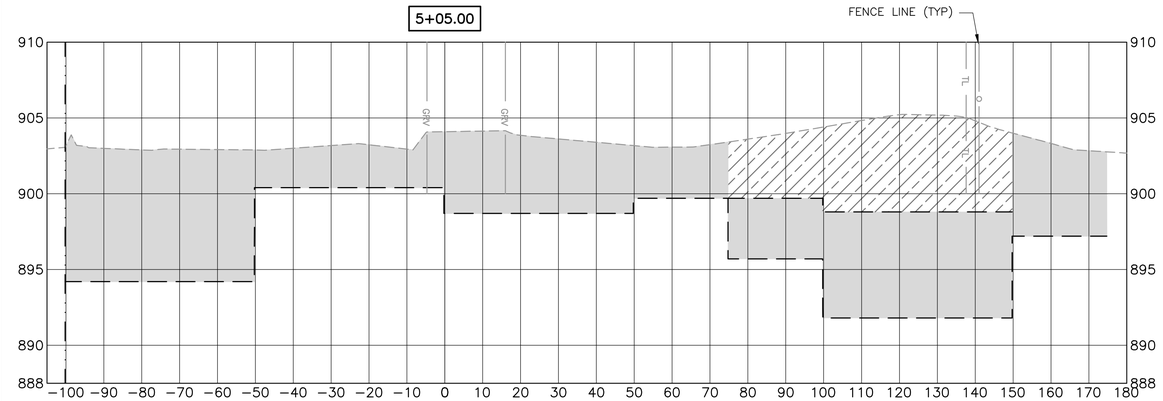
DATE	JUNE 2022
PROJ	3617-20-75081
DWG	C-301
SHEET	13 OF 19

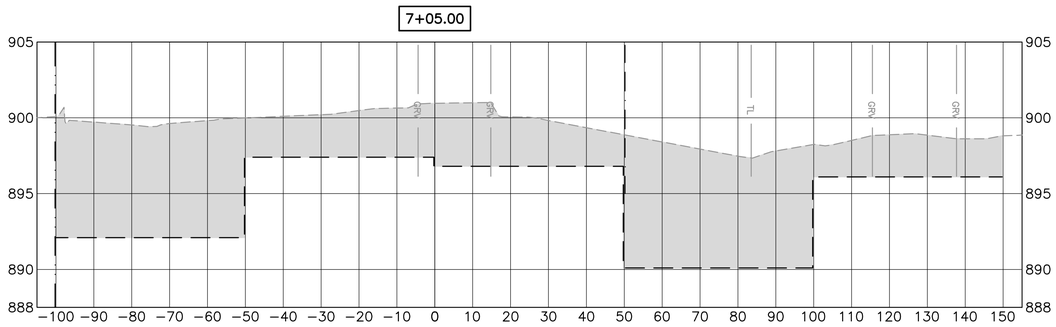












NOTE:
DUE TO EXCAVATION GRID SIZES FOR EXCAVATION AREAS NORTH OF THE SITE BOUNDARY, NOT ALL OF THE GRIDS ARE DEPICTED ON THESE SECTIONS WHICH GENERALLY DEPICT 50' X 50' GRIDS.

0 10 20 40
SCALE IN FEET
HORIZONTAL SCALE: 1" = 20'

0 2 4 8
SCALE IN FEET
VERTICAL SCALE: 1" = 4'

STATE OF NEW YORK ★ RICHARD S EGAN ★ 097113 ★ LICENSED PROFESSIONAL ENGINEER
6-25-22

NO.	DATE	DSGN	DRWN	CHK	APVD	BY	APVD
D	6/25/22	M. PETERS	W. WHITTEN	J. WELCH	R. EGAN	MAP	RSE
C	5/20/22					MAP	RSE
B	12/17/20					MAP	MJS
A	04/30/20					MAP	MJS

REVISION

100% DESIGN - ISSUED FOR BID
RE-ISSUED 95% DESIGN SUBMISSION
95% DESIGN SUBMISSION
30% DESIGN SUBMISSION

Department of Environmental Conservation
NEW YORK STATE

REMEDIAL ACTION PLAN
BATAVIA IRON AND METAL SITE
BATAVIA, NEW YORK
NYSDEC SITE NO. 819018
NYSDEC CONTRACT NO. D011945

MACTEC Engineering and Consulting, P.C.
P.O. Box 1026, 511 Congress Street
Portland, Maine 04112-7050
(207) 775-5401

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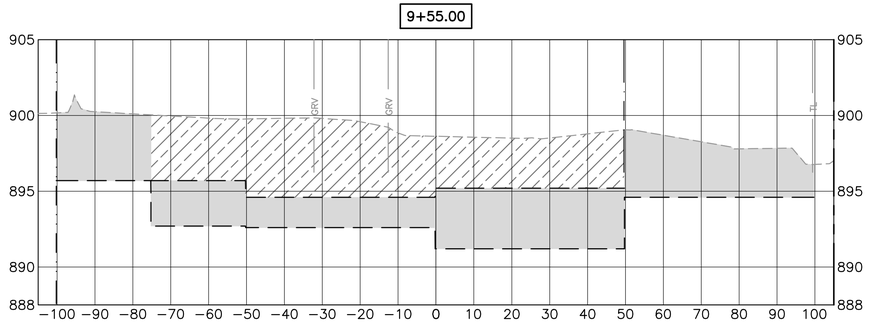
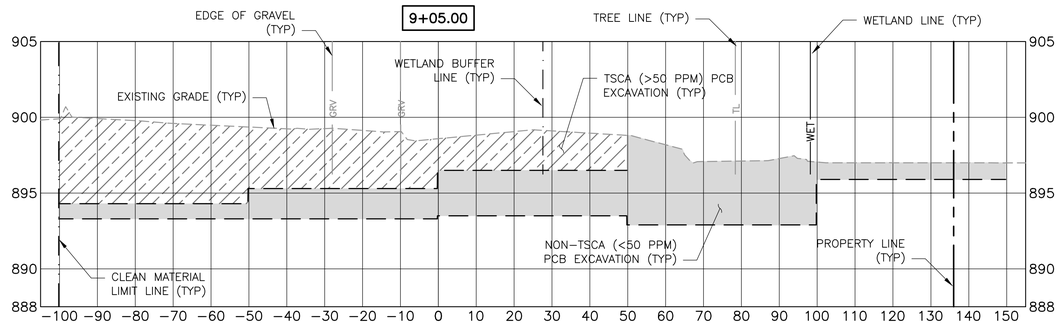
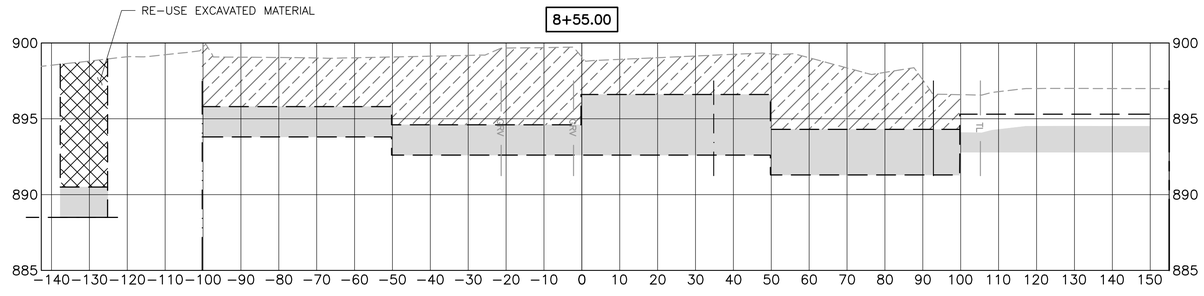
CROSS SECTIONS 2

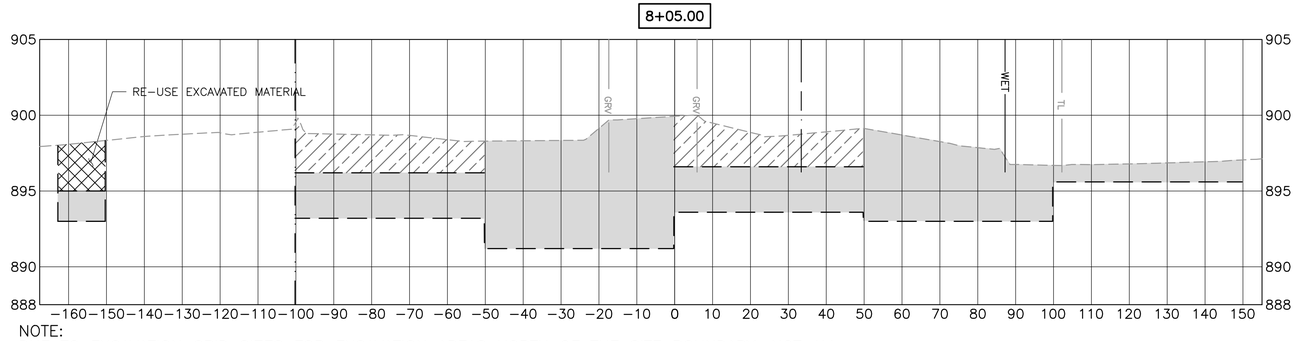
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"

DATE	JUNE 2022
PROJ	3617-20-75081
DWG	C-302
SHEET	14 OF 19









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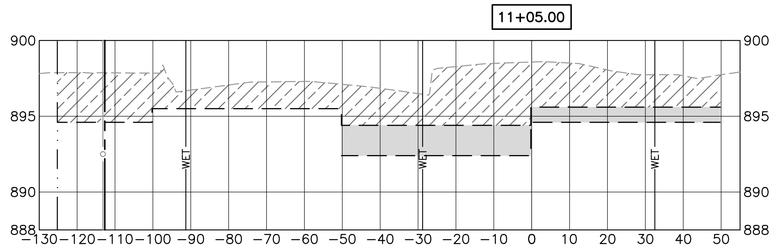

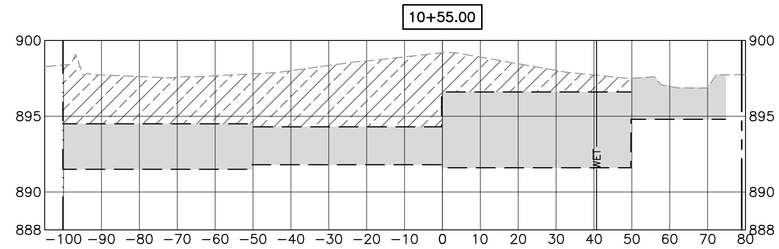

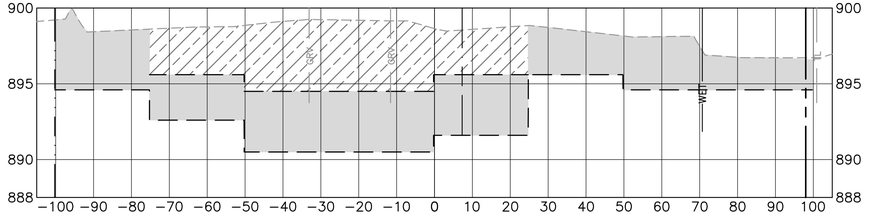

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BY APVD

STATE OF NEW YORK ★ RICHARD S EGAN ★ 097113 ★ LICENSED PROFESSIONAL ENGINEER
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CROSS SECTIONS 3

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DATE	JUNE 2022
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DWG	C-303
SHEET	15 OF 19

GENERAL EROSION AND SEDIMENT CONTROL NOTES:

1. ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL (STATE STANDARDS) AND THE CONTRACT DOCUMENTS, SPECIFICALLY:

   - SPECIFICATION SECTION 312500 "EROSION AND SEDIMENTATION CONTROL";
   - DRAWING C–105 "SITE LAYOUT AND SOIL EROSION AND SEDIMENT CONTROL PLAN";
   - DRAWING C–501 "EROSION AND SEDIMENT CONTROL NOTES"; AND
   - DRAWING C–502 "EROSION AND SEDIMENT CONTROL DETAILS".

   IF A DISCREPANCY EXISTS BETWEEN THE STATE STANDARDS AND THE CONTRACT DOCUMENTS, THE STATE STANDARDS SHALL TAKE PRECEDENCE.

2. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.

3. EROSION AND SEDIMENTATION CONTROLS SHALL BE AUGMENTED OR SUPPLEMENTED IF THE INSTALLED MEASURES DO NOT PROVIDE ADEQUATE PROTECTION OF DOWNSTREAM RESOURCES AS DETERMINED BY THE ENGINEER OR DEPARTMENT.

4. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN FOURTEEN (14) DAYS, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE TEMPORARY SEEDING AND MULCHING. IF THE SEASON PREVENTS THE ESTABLISHMENT OF TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED WITH HAY OR STRAW, OR EQUIVALENT MATERIAL, AT A RATE OF 2 TONS PER ACRE, ACCORDING TO STATE STANDARDS.

5. IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION (I.E. STEEP SLOPES AND TRIBUTARY/CREEK BANKS) WILL RECEIVE TEMPORARY SEEDING IN COMBINATION WITH HAY OR STRAW MULCH OR A SUITABLE EQUIVALENT, AT A RATE OF 2 TONS PER ACRE, ACCORDING TO STATE STANDARDS.

6. ANY STEEP SLOPES (I.E. SLOPES GREATER THAN 3:1) WILL BE COMPLETELY GRADED AND STABILIZED DAILY, AS CONSTRUCTION PROGRESSES.

7. THE STANDARD FOR STABILIZED CONSTRUCTION ENTRANCE REQUIRES THE INSTALLATION OF A PAD OF CLEAN CRUSHED STONE AT POINTS WHERE TRAFFIC WILL BE EGRESSING AND ACCESSING THE CONSTRUCTION SITE.

8. ALL SOIL WASHED, DROPPED, SPILLED, OR TRACKED OUTSIDE THE LIMIT OF WORK OR ONTO PUBLIC RIGHT–OF–WAYS SHALL BE REMOVED IMMEDIATELY.

9. PERMANENT VEGETATION IS TO BE SEEDED OR SODDED ON ALL EXPOSED AREAS AS SOON AS POSSIBLE AFTER FINAL GRADING. IF SEEDING IS NOT PERFORMED WITHIN 48 HOURS OF COMPLETION OF FINAL GRADING, ADDITIONAL SURFACE SCARIFICATION SHALL BE COMPLETED PRIOR TO SEEDING.

10. AT THE TIME THAT SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS TO BE UNDERTAKEN, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROWTH SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE TO SUSTAIN VEGETATIVE GROWTH. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NON–VEGETATIVE MEANS OF PERMANENT STABILIZATION SHALL BE EMPLOYED.

11. DEWATERING OPERATIONS SHALL BE UNDERTAKEN IN A MANNER TO MINIMIZE SEDIMENT TRANSFER. ANY DEWATERING METHODS USED MUST BE IN ACCORDANCE WITH THE SPECIFICATIONS.

12. SHOULD THE CONTROL OF DUST AT THE SITE BE NECESSARY, THE SITE WILL BE SPRINKLED WITH WATER UNTIL THE SURFACE IS WET. TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED OR MULCH SHALL BE APPLIED PER THE STATE STANDARDS. CALCIUM CHLORIDE SHALL ONLY BE USED FOR DUST CONTROL DURING FREEZING CONDITIONS.

13. STOCKPILE AND STAGING LOCATIONS ESTABLISHED IN THE FIELD SHALL BE PLACED WITHIN THE LIMIT OF WORK WITH APPROPRIATE PROTECTIVE EROSION AND SEDIMENTATION CONTROLS.

14. ALL SOIL STOCKPILES ARE TO BE TEMPORARILY STABILIZED IN ACCORDANCE WITH GENERAL EROSION AND SEDIMENT CONTROL NOTE NO. 4.

SOIL EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE:

1. STABILIZED CONSTRUCTION ENTRANCE

   A. STABILIZED CONSTRUCTION ENTRANCES SHALL, AT A MINIMUM, BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT THAT PRODUCES 0.5 INCHES OF RAIN OR MORE DURING A 24–HOUR PERIOD.

   B. STABILIZED CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OF SEDIMENT ONTO PAVED SURFACES. CHECK FOR DAMAGE/DETERIORATION/CLOGGING AND IMMEDIATELY REPAIR OR RECONSTRUCT AS NECESSARY.

   C. THE PERFORMANCE OF STABILIZED CONSTRUCTION ENTRANCES SHALL BE MAINTAINED BY LENGTHENING, SCRAPING, OR TOP–DRESSING WITH ADDITIONAL AGGREGATE.

   D. STABILIZED CONSTRUCTION ENTRANCES SHALL HAVE A 6–INCH MINIMUM THICKNESS.

   E. INSPECT ADJACENT IMPERVIOUS SURFACES DAILY (MINIMUM). IMMEDIATELY REMOVE VISIBLE ACCUMULATED SEDIMENT DEPOSITED ON PAVED SURFACES VIA SWEEPING, VACUUMING, OR WASHING. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH AGGREGATE, WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE. PROPERLY DISPOSE OF SEDIMENT.

2. SEDIMENT BARRIERS

   A. SILTATION FENCE

      A.1. SILTATION FENCES SHALL, AT A MINIMUM, BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT THAT PRODUCES 0.5 INCHES OF RAIN OR MORE DURING A 24–HOUR PERIOD.

      A.2. REMOVE THE SEDIMENT DEPOSITS OR INSTALL A SECONDARY BARRIER UPSLOPE FROM THE EXISTING BARRIER WHEN SEDIMENT DEPOSITS REACH ONE HALF THE HEIGHT OF THE FENCE. PROPERLY DISPOSE OF SEDIMENT.

      A.3. REPLACE OR REPAIR FENCES WITHIN 24 HOURS OF OBSERVED FAILURE (E.G., DAMAGE OR DECOMPOSITION; FENCE MOVED OUT OF POSITION; UNDERCUTTING, OVERTOPPING, OR FLOW CHANNELS AROUND THE END OF FENCES).

      A.4. MAINTAIN SILTATION FENCES UNTIL THE CONTRIBUTING AREA IS STABILIZED.

   B. AUGMENTED SILTATION FENCE

      B.1. AUGMENTED SILTATION FENCES SHALL, AT A MINIMUM, BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT THAT PRODUCES 0.5 INCHES OF RAIN OR MORE DURING A 24–HOUR PERIOD.

      B.2. REMOVE THE SEDIMENT DEPOSITS OR INSTALL A SECONDARY BARRIER UPSLOPE FROM THE EXISTING BARRIER WHEN SEDIMENT DEPOSITS REACH ONE HALF THE HEIGHT OF THE FENCE. PROPERLY DISPOSE OF SEDIMENT.

      B.3. REPLACE OR REPAIR FENCES WITHIN 24 HOURS OF OBSERVED FAILURE (E.G., DAMAGE OR DECOMPOSITION; FENCE MOVED OUT OF POSITION; UNDERCUTTING, OVERTOPPING, OR FLOW CHANNELS AROUND THE END OF FENCES).

      B.4. RESHAPE, ADD ADDITIONAL MATERIAL, OR REPLACE FILTER BERM WHEN DISTURBED BY CONSTRUCTION ACTIVITIES OR SIGNIFICANT STORM EVENTS.

      B.5. MAINTAIN AUGMENTED SILTATION FENCES UNTIL THE CONTRIBUTING AREA IS STABILIZED.

   C. INLET FILTER CATCH BASIN PROTECTION

      C1. CATCH BASIN INLET PROTECTION SHALL, AT A MINIMUM, BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT THAT PRODUCES 0.5 INCHES OF RAIN OR MORE DURING A 24–HOUR PERIOD.

      C2. MAINTAIN CATCH BASIN INLET PROTECTION UNTIL THE CONTRIBUTING AREA IS STABILIZED.

3. TURBIDITY CURTAIN

   A. TURBIDITY CURTAIN SHALL, AT A MINIMUM, BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT THAT PRODUCES 0.5 INCHES OF RAIN OR MORE DURING A 24 HOUR PERIOD.

   B. REPLACE OR REPAIR TURBIDITY CURTAIN WITHIN 24 HOURS OF OBSERVED FAILURE (E.G., MOVED STONE, ERODED SOIL AROUND OR UNDER THE CHECK DAM, TRAPPED SEDIMENTS OVERTOPPING CHECK DAM).

   C. UNLESS INCORPORATED INTO A PERMANENT STORMWATER MANAGEMENT SYSTEM, TURBIDITY CURTAIN SHALL BE REMOVED ONCE THE FINAL GRADING AND CHANNEL STABILIZATION IS APPLIED.

   D. SEDIMENT DEPOSITS SHALL BE REMOVED WHEN DEPOSITS REACH HALF THE HEIGHT OF THE TURBIDITY CURTAIN. REMOVAL OF SEDIMENT MAY REQUIRE REPLACEMENT OF STONE. PROPERLY DISPOSE OF SEDIMENT.

4. TEMPORARY SEEDING AND MULCHING

   A. AREAS RECEIVING TEMPORARY SEEDING AND MULCHING SHALL, AT A MINIMUM, BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT THAT PRODUCES 0.5 INCHES OF RAIN OR MORE DURING A 24–HOUR PERIOD.

   B. WHERE SEED/MULCH HAS MOVED OR SOIL EROSION HAS OCCURRED, REPAIR THE AREA APPROPRIATELY AND RE–APPLY SEED AND/OR MULCH. APPLY NETTING, TACKIFIER, OR OTHER ANCHORING TECHNIQUES AS NECESSARY TO PREVENT FAILURE. ADDITIONAL TEMPORARY MEASURES MAY ALSO BE INSTALLED TO CONTROL STORMWATER RUNOFF AND SEDIMENT MOVEMENT.

   C. CONTINUE INSPECTION AND MAINTENANCE OF AREAS RECEIVING TEMPORARY SEEDING AND MULCHING UNTIL AT LEAST 90% OF THE SOIL SURFACE IS BE COVERED BY MATURE, ESTABLISHED VEGETATION CAPABLE OF CONTROLLING SOIL EROSION AND SURVIVING SEVERE WEATHER.

5. DUST CONTROL

   A. THE PROJECT SITE AND ADJACENT RESIDENTIAL AND COMMERCIAL PROPERTIES SHALL, AT A MINIMUM, BE INSPECTED DAILY.

   B. APPLY DUST CONTROL MEASURES WHEN FUGITIVE DUST BECOMES EVIDENT.

6. ALL TEMPORARY EROSION AND SEDIMENT CONTROLS SHALL BE REMOVED ONCE UPGRADIENT AREAS ARE STABILIZED WITH ESTABLISHED VEGETATION, PAVEMENT OR GRAVEL.

GENERAL CONSTRUCTION SEQUENCE:

1. INITIATE CONSTRUCTION MONITORING AND CONTINUE THROUGHOUT THE DURATION OF THE WORK AS SPECIFIED.

2. PERFORM FIELD VERIFICATION SURVEY AND CONSTRUCTION LAYOUT. PERFORM ADDITIONAL SURVEY THROUGHOUT CONSTRUCTION FOR LAYOUT, MEASUREMENT FOR PAYMENT, AND FINAL AS–BUILT RECORD.

3. MOBILIZE EQUIPMENT AND INSTALL TEMPORARY FACILITIES AND CONTROLS INCLUDING VEHICLE DECONTAMINATION PAD; SOIL/SEDIMENT STOCKPILE CONTAINMENT; DEWATER STAGING AREA; TRAFFIC AND ACCESS CONTROLS; EROSION AND SEDIMENTATION CONTROLS, ETC.

4. CLEAR TREES AND SHRUBS WITHIN THE LIMIT OF CLEARING. TRANSPORT AND DISPOSE OF CLEARED DEBRIS OFF–SITE AT AN APPROVED LICENSED TREATMENT, STORAGE, AND DISPOSAL FACILITY (TSDF). COORDINATE CLEARING WITH INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS INCLUDING SILTATION FENCE AND AUGMENTED SILTATION FENCE.

5. REMOVE SURFICIAL DEBRIS PILES AND WASTE. TRANSPORT AND DISPOSE BULKY METAL WASTE; CONSTRUCTION AND DEMOLITION DEBRIS; AND TIRES OFF–SITE AT APPROVED LICENSED TSDFs.

6. ESTABLISH THE ACTIVE EXCLUSION ZONE FOR PLANNED PHASE OF WORK. INSTALL ACCESS CONTROLS TO SEPARATE REMEDIAL ACTION WORK FROM THE ADJACENT OFF–SITE PROPERTY OWNERS AND GENERAL PUBLIC. INSTALL CONTROLS TO SEPARATE AREAS CONTAINING DIFFERENT WASTE DISPOSAL CHARACTERIZATIONS. CONSTRUCT TEMPORARY ACCESS ROADS AND OTHER ENGINEERED CONTROLS, AS REQUIRED, WITHIN THE EXCLUSION ZONE TO MANAGE CLEAN WASTE HANDLING ACTIVITIES SEPARATE FROM CONTAMINATED WASTE/MATERIAL HANDLING. RE–LOCATE, SUPPLEMENT, OR REMOVE CONTROLS TO COORDINATE WITH THE PROGRESSION OF THE WORK. ADJUST/MODIFY THE EXCLUSION ZONE BOUNDARY TO ACCOMMODATE THE PHASE OF WORK BEING PERFORMED.

7. INSTALL, OPERATE, AND MAINTAIN A CONSTRUCTION WATER MANAGEMENT SYSTEM THAT IS CAPABLE OF DEMONSTRATING COMPLIANCE WITH THE APPLICABLE PERMITS FOR ON–SITE DISPOSAL AND/OR THE REQUIREMENTS OF AN APPROVED LICENSED TSDF FOR OFF–SITE DISPOSAL.

8. FOR ALL EXCAVATIONS, SEGREGATE EXCAVATED SOIL BASED ON WASTE DISPOSAL CHARACTERIZATION AS WELL AS BURIED DEBRIS ENCOUNTERED SUCH AS DRUMS, TIRES, OR BULKY METAL WASTE. EACH CLASSIFICATION OF WASTE SHALL BE HANDLED AND MANAGED SEPARATELY INCLUDING WASTE CHARACTERIZATION AND OFF–SITE DISPOSAL.

9. EXCAVATE SOIL IN EACH IDENTIFIED EXCAVATION CELL TO THE ELEVATIONS SHOWN ON DRAWINGS C–106 TO C–108, C–201, AND C–301 TO C–303. DEWATER EXCAVATION AS NECESSARY AND COLLECT AS CONSTRUCTION WATER.

10. SCHEDULE ALL WORK IN GRID AREAS WITHIN THE CITY OF BATAVIA PROPERTY CONCURRENTLY TO LIMIT THE AMOUNT OF TIME THAT WORK IS BEING CONDUCTED OFF–PROPERTY. DO NOT SETUP ANY STAGING AREAS ON THE CITY OF BATAVIA PROPERTY AND MOVE ALL TEMPORARY FENCING AND SILT FENCING OFF THE PROPERTY AS SOON AS THE WORK IN THE AREA IS COMPLETE.

11. TEST THE EXCAVATION LIMITS OF THE UPLAND EXCAVATION CELLS TO CONFIRM THE SOIL CLEANUP OBJECTIVE HAS BEEN MET. IF NOT, EXCAVATE AN ADDITIONAL 6 INCHES AND RETEST. CONTINUE EXCAVATION AND TESTING UNTIL CLEANUP GOAL IS CONFIRMED.

12. IMPORT SUBGRADE FILL, PLACE IN UPLAND EXCAVATION, COMPACT, AND GRADE TO THE LINES AND GRADES TO RE–ESTABLISHED EXISTING GRADES UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

13. RESTORE UPLAND RIPARIAN AREA WITH TREE PLANTINGS AS SHOWN ON DRAWINGS C–109 AND C–504. SEED AND MULCH AS INDICATED ON DRAWING C–109.

14. SEED AND MULCH UPLAND VEGETATED AREAS AS SHOWN ON DRAWING C–109.

15. INSTALL GRAVEL AREAS, ASPHALT PAVEMENT AND CHAIN LINK FENCE AS SHOWN ON DRAWINGS C–502, C–503 AND C–504.

16. REMOVE TEMPORARY FACILITIES AND CONTROLS, ACCESS CONTROLS, AND EROSION AND SEDIMENT CONTROLS. PERFORM FINAL SITE CLEANUP.

17. DEMOBILIZE EQUIPMENT FROM THE SITE.

18. NOTE THAT THE ACTUAL SEQUENCE OF CONSTRUCTION MAY BE MODIFIED TO ACCOMMODATE CHANGING CONDITIONS OR COORDINATION REQUIREMENTS. ALTERNATELY, SOME IDENTIFIED TASKS MAY OCCUR CONCURRENTLY.

STATE OF NEW YORK · RICHARD S EGAN · 097113 · LICENSED PROFESSIONAL ENGINEER
6-25-22

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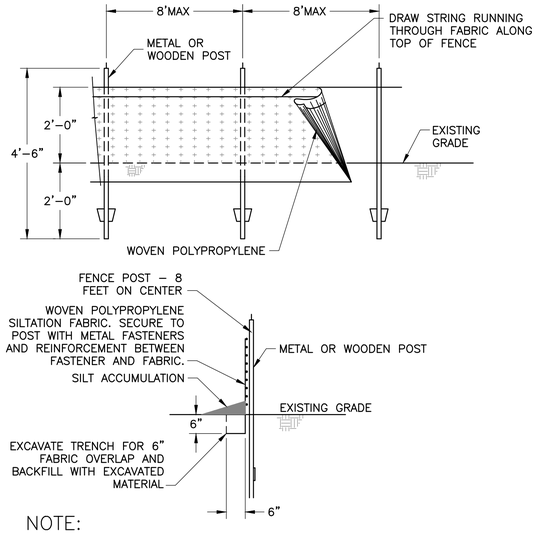
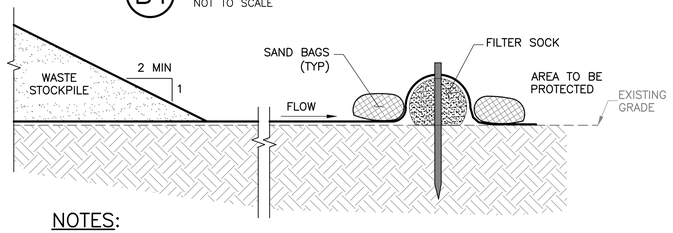


NOTE:

WHERE REQUIRED AT CRITICAL LOCATIONS, AUGMENTED SILTATION FENCE OR SILTATION FENCE REINFORCED WITH HOG OR CHICKEN WIRE OR INTEGRAL PLASTIC MESH REINFORCING MAY BE USED.

B1 SILTATION FENCE

NOT TO SCALE

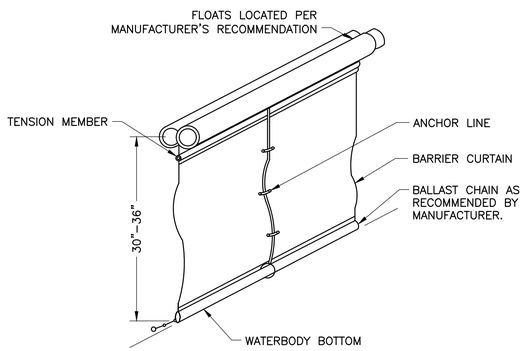


NOTES:

1. WASTE STOCKPILE SHALL BE COVERED TO THE EXTENT PRACTICABLE.
2. WASTE STOCKPILE MUST BE LOCATED WITHIN CONTAINMENT AREA.

C1 WASTE STOCKPILE

NOT TO SCALE

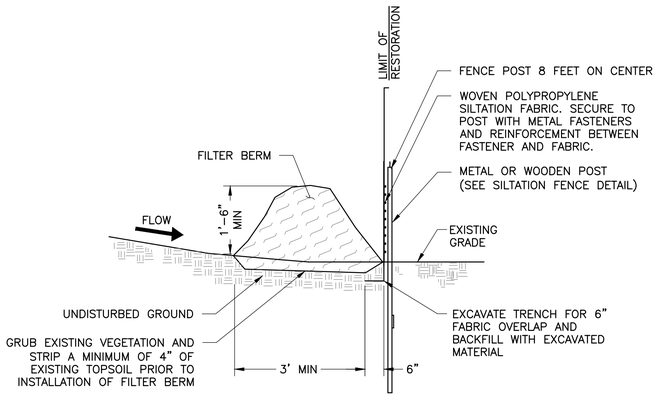


NOTES:

1. DEPLOY TURBIDITY CURTAIN BEFORE DISTURBING UPLAND SOILS ADJACENT TO SURFACE WATER.
2. USE OF A TURBIDITY CURTAIN VERSUS AUGMENTED SILTATION FENCE MAY BE REQUIRED IF WATER DEPTH IN WETLAND IS 2 FEET OR GRATER.

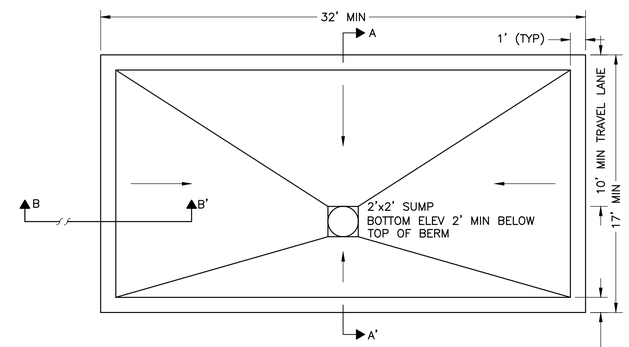
D1 TURBIDITY CURTAIN

NOT TO SCALE

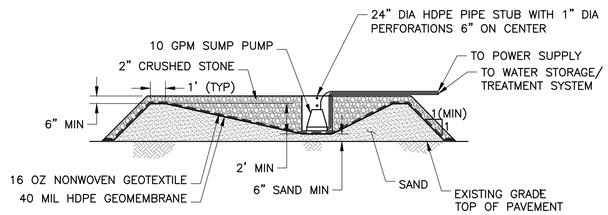


B3 AUGMENTED SILTATION FENCE

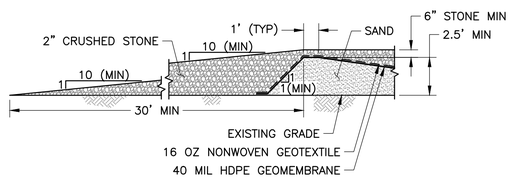
NOT TO SCALE



PLAN



SECTION A–A'



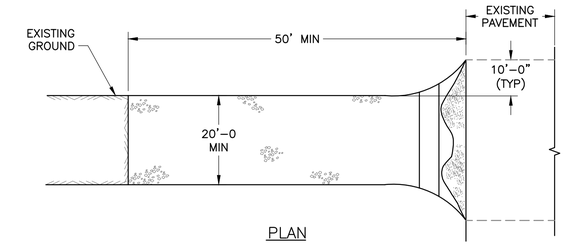
SECTION B–B'

NOTE:

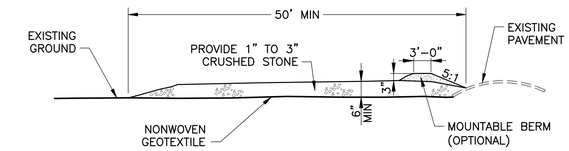
CONTRACTOR MAY PROPOSE ALTERNATE MEANS AND METHODS OF DECONTAMINATION FOR APPROVAL BY THE ENGINEER.

D3 VEHICLE DECONTAMINATION PAD

NOT TO SCALE



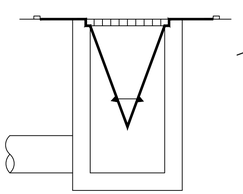
PLAN



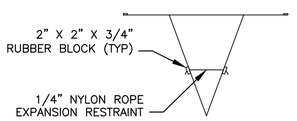
PROFILE

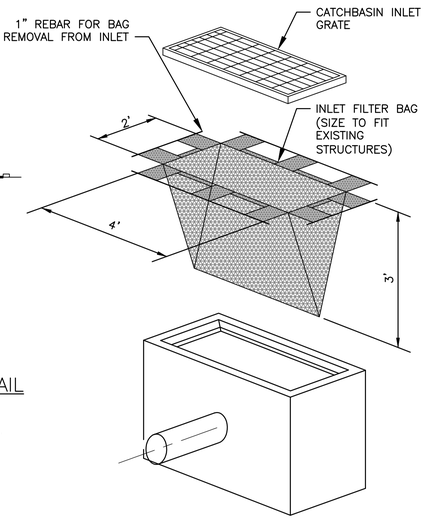
B5 STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE



INSTALLATION DETAIL





ISOMETRIC VIEW

NOTES:

1. AT A MINIMUM, INLET MUST SAFELY PASS FLOWS FOR A 1–YR, 24–HR STORM EVENT.
2. CONTRACTOR SHALL INSPECT AND CLEAN INLET FILTERS AFTER EVERY STORM.
3. CONTRACTOR SHALL REMOVE INLET FILTERS AT COMPLETION OF WORK.

D5 INLET FILTER

NOT TO SCALE

STATE OF NEW YORK · RICHARD S EGAN · 097113 · LICENSED PROFESSIONAL ENGINEER
6-25-22

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D	6/25/22	M. PETERS	W. WHITTEN	J. WELCH	R. EAGN
C	5/20/22				
B	12/17/20				
A	04/30/20				

BY	APVD	REVISION
MAP	RSE	100% DESIGN - ISSUED FOR BID
MAP	RSE	RE-ISSUED 95% DESIGN SUBMISSION
MAP	MJS	95% DESIGN SUBMISSION
MAP	MJS	30% DESIGN SUBMISSION

Department of Environmental Conservation
NEW YORK STATE

REMEDIAL ACTION PLAN
BATAVIA IRON AND METAL SITE
BATAVIA, NEW YORK
NYSDEC SITE NO. 819018
NYSDEC CONTRACT NO. D011945

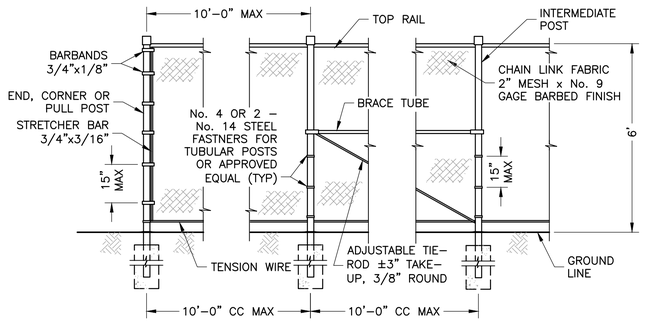
MACTEC Engineering and Consulting, P.C.
P.O. Box 1026, 1 Courthouse Street
Portland, Maine 04112–7050
(207) 775–5401

MACTEC

SOIL EROSION AND SEDIMENT CONTROL DETAILS

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"

DATE	JUNE 2022
PROJ	3617-20-75081
DWG	C-502
SHEET	17 OF 19



DESCRIPTION

END, CORNER AND PULL POSTS FOR FABRIC HEIGHT:
2.875"ø SCHEDULE 40 ROUND GALV. STEEL PIPE

INTERMEDIATE POSTS FOR FABRIC HEIGHTS:
ROUND 2.375"ø SCHEDULE 40 GALV. STEEL PIPE

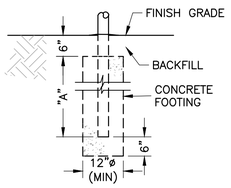
TOP RAIL:
1.66" OD SCHEDULE 40 GALVANIZED PIPE.

BRACE TUBES:
1.25" OD SCHEDULE 40 GALVANIZED PIPE.

STRETCHER BARS:
LENGTH TO BE 1" LESS THAN FULL HEIGHT OF FABRIC. ONE STRETCHER BAR FOR EACH GATE AND END POST. TWO STRETCHER BARS FOR CORNERS AND BRACING.

TENSION WIRE:
7 GA GALVANIZED

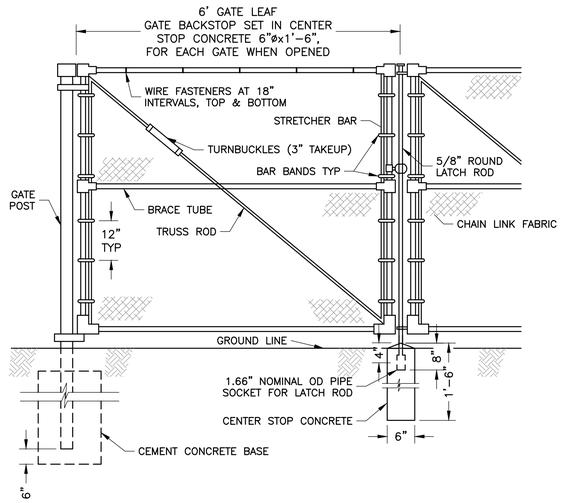
B1 PERMANENT CHAIN LINK FENCE
NOT TO SCALE



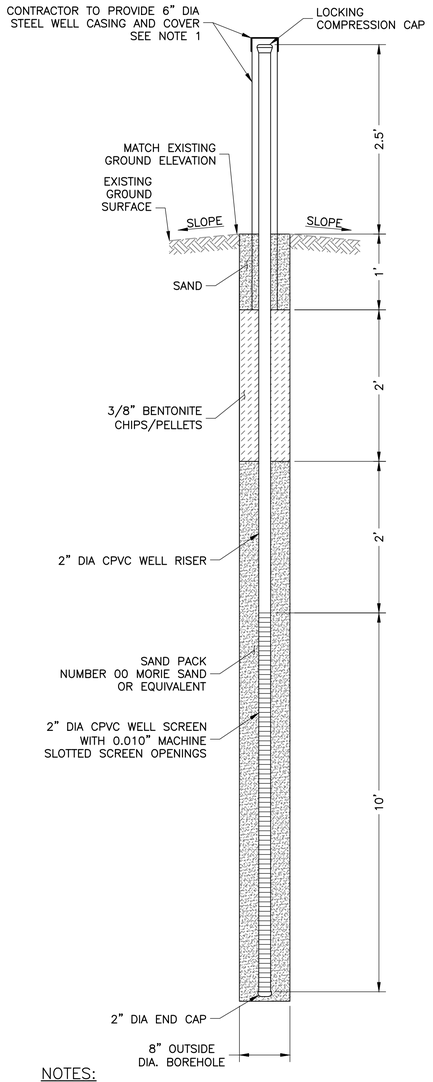
FOOTING DETAIL

GATE AND END POST BASE
"A" = 4'-0" FOR ALL END AND GATE POSTS
LINE POST MAY BE DRIVEN

NOTE:
POST DIMENSIONS SHOWN ARE OD NOMINAL



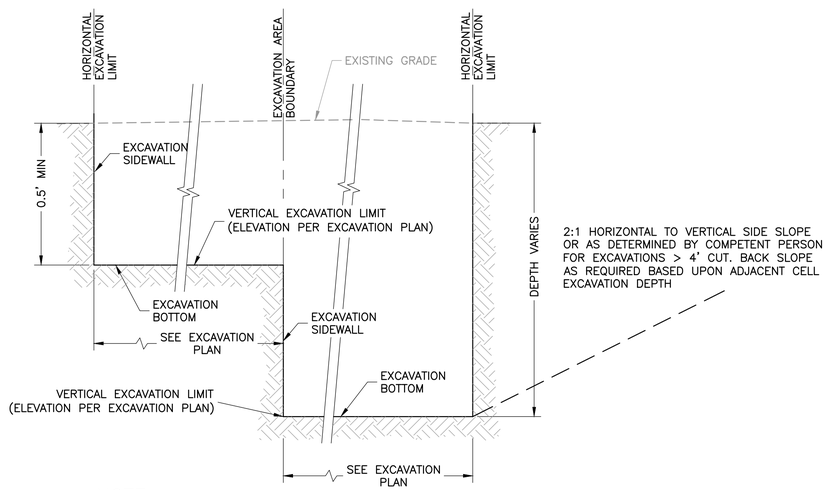
B3 CHAIN LINK FENCE DOUBLE GATE
NOT TO SCALE



NOTES:

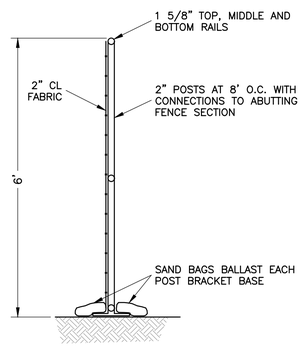
1. STEEL CASING CEMENTED IN PLACE AND PROVIDE LOCKING WELL CAP AND PADLOCK.
2. WELLS DRILLED TO A MAXIMUM DEPTH OF 15 FEET OR REFUSAL SEE SPECS.
3. INSTALL WELLS PRIOR TO PLACEMENT OF FINAL COVER MATERIAL. COORDINATE TIMING WITH ENGINEER.
4. SOIL CUTTING SHALL BE PROPERLY DISPOSED OFFSITE WITH EXCAVATED SOIL.
5. WATER FOR WELL DEVELOPMENT SHALL FOLLOW PROTOCAOL IN THE CONSTRUCTION WATER MANAGEMENT SPECIFICATION.

D6 MONITORING WELL
NOT TO SCALE



NOTE
1. FINAL EXCAVATION DEPTH BASED ON THE RESULTS OF CONFIRMATION TESTING AND SURVEY.
2. EXCAVATION CUT BACK SLOPE (1:X) CONTRACTORS COMPETENT PERSON SHALL COORDINATE WITH SOIL TYPE, GROUNDWATER CONDITION, AND THE REQUIREMENTS OF OSHA SAFETY STANDARDS.

D1 TYPICAL EXCAVATION
NOT TO SCALE



D4 TEMPORARY CONSTRUCTION CHAIN LINK FENCE
NOT TO SCALE

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		REVISION			

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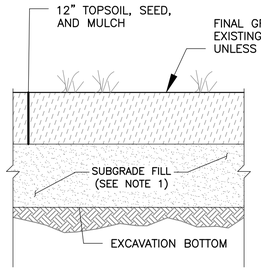
CIVIL DETAILS

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"

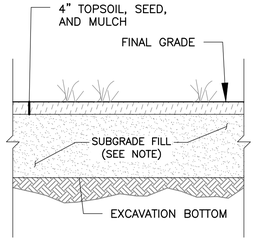
DATE	JUNE 2022
PROJ	3617-20-75081
DWG	C-503
SHEET	18 OF 19



NOTES:

1. DEPTHS OF SUBGRADE FILL VARIES BASED ON ACTUAL EXCAVATION BOTTOM AND FINAL GRADE ELEVATIONS.
2. INSTALL TREE AND SHRUB PLANTINGS AS SHOWN ON THIS DRAWING.

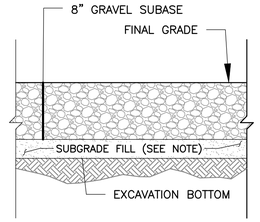
B1 WETLAND RESTORATION
NOT TO SCALE



NOTE:

DEPTHS OF SUBGRADE FILL VARIES BASED ON ACTUAL EXCAVATION BOTTOM AND FINAL GRADE ELEVATIONS.

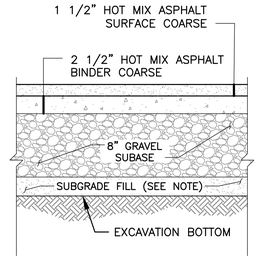
B2 UPLAND RESTORATION
NOT TO SCALE



NOTE:

DEPTHS OF SUBGRADE FILL VARIES BASED ON ACTUAL EXCAVATION BOTTOM AND FINAL GRADE ELEVATIONS.

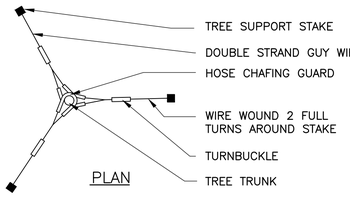
B3 GRAVEL RESTORATION
NOT TO SCALE



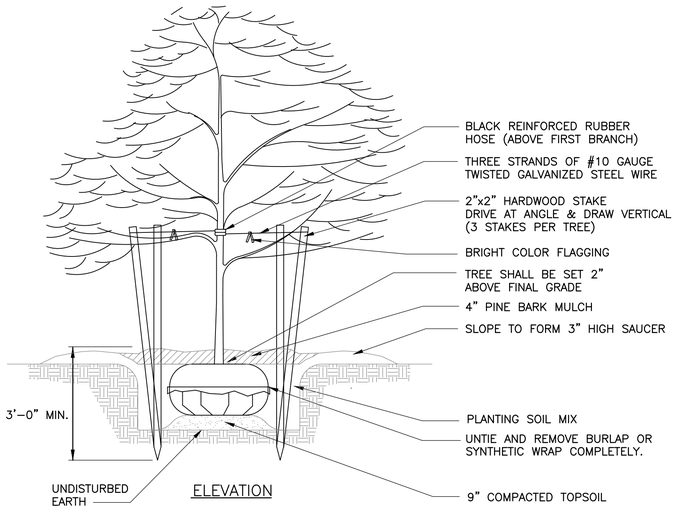
NOTE:

DEPTHS OF SUBGRADE FILL VARIES BASED ON ACTUAL EXCAVATION BOTTOM AND FINAL GRADE ELEVATIONS.

B4 BITUMINOUS PAVEMENT RESTORATION
NOT TO SCALE



PLAN



ELEVATION

NOTES:

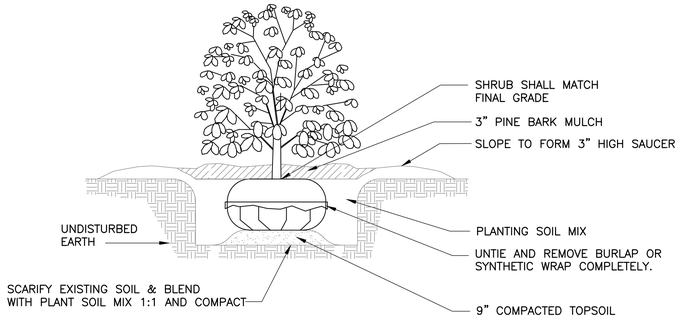
HEIGHT OF GUY WIRES BETWEEN 1/3 & 1/2 OF TREE HEIGHT

D1 TREE PLANTING
NOT TO SCALE

PLANTING SCHEDULE TREES (UPLAND)				
QUANTITY	COMMON NAME	BOTANICAL NAME	SIZE	DENSITY
25	GREEN ASH	FRAXINUS PENNSYLVANICA	18"-24"	15' ON CENTER
50	GRAY BIRCH	BETULA POPULIFOLIA	2'-3'	15' ON CENTER
25	COTTON WOOD	POPULUS DELTOIDES	3'-4'	15' ON CENTER
50	BLACK CHERRY	PRUNUS SEROTINA	3'-4'	15' ON CENTER

NOTES:

1. TREES TO BE TWO TO FOUR INCH CALIPER MEASURED SIX INCHES FROM THE GROUND.
2. THE TREE PLANTING LOCATIONS WILL BE DIRECTED IN THE FIELD BY THE ENGINEER.



NOTES:

PRUNE 1/5 OF LEAF AREA BUT RETAIN NATURAL FORM. DO NOT PRUNE LEADER. ALL WOUNDS OVER ONE HALF DIA. TREAT WITH WOUND DRESSING.

D4 SHRUB PLANTING
NOT TO SCALE

PLANTING SCHEDULE TREES & SHRUBS (WETLAND)				
QUANTITY	COMMON NAME	BOTANICAL NAME	SIZE	TYPE
140	RED MAPLE	ACER-RUBRUM	3'-4'	TREE
150	ALDER	ALMUS INCANA/RUGUSA	18"-24"	SHRUB
200	RED-OSIE-DOGWOOD	CORNUS SERIECA	18"-24"	SHRUB
90	COMMON ELDERBURY	SAMBUCUS CANADENSIS	18"-24"	SHRUB
500 SHRUBS PER ACRE				

NOTES:

1. SHRUBS TO BE POTTED OR BAILED & BALLED 1.5 TO TWO FEET IN HEIGHT, MEASURED FROM GROUND SURFACE.
2. THE SHRUB AND TREE PLANTING LOCATIONS WILL BE DIRECTED IN THE FIELD BY THE ENGINEER.

STATE OF NEW YORK RICHARD S EGAN 097113 LICENSED PROFESSIONAL ENGINEER 6-25-22

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	REVISION	BY	APVD
D	100% DESIGN - ISSUED FOR BID	MAP	RSE
C	RE-ISSUED 95% DESIGN SUBMISSION	MAP	RSE
B	95% DESIGN SUBMISSION	MAP	MJS
A	30% DESIGN SUBMITTAL	MAP	MJS

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RESTORATION DETAILS

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"

DATE	JUNE 2022
PROJ	3617-20-750B1
DWG	C-504
SHEET	19 OF 19