CRAIG PAEPRER Chairman

ANTHONY GIANNICO Vice Chairman

BOARD MEMBERS
RAYMOND COTE
ROBERT FRENKEL
VICTORIA CAUSA
JOHN NUCULOVIC

TOWN OF CARMEL PLANNING BOARD



60 McAlpin Avenue Mahopac, New York 10541 Tel. (845) 628-1500 – Ext.190 www.ci.carmel.ny.us MICHAEL CARNAZZA

Director of Code

Enforcement

RICHARD FRANZETTI, P.E. Town Engineer

> PATRICK CLEARY, AICP,CEP, PP, LEED AP Town Planner

PLANNING BOARD AGENDA APRIL 13, 2023-7:00 P.M.

REVISION #1

TAX MAP # PUB. HEARING MAP DATE COMMENTS

RESOLUTION

1.	Glenacom Lake Cell Tower – Walton Drive	87.5-1-90		3/3/23	Special Permit & Site Plan
2.	Gateway Summit Multi-Family – Lot 6 2054 Route 6	552-24.6-1, 552-24.6-2		1/28/22	Corrected Resolutions
3.	The Fairways Multi-Family – Lot 7 2054 Route 6	552-24.8-1, 552-24.8-2		1/28/22	Corrected Resolutions
<u>Pl</u>	JBLIC HEARING				
4.	Platinum Propane – 1035 Route 6	65.10-2-11	04/13/23	3/30/23	Site Plan
SI	TE PLAN				

SHE PLAN

5. NYCDEP West Branch Auxiliary Dam – 65.-1-5 3/31/23 Site Plan 34 Drewville Road

MISCELLANEOUS

6. Minutes - 02/09/23



April 3, 2023

Town of Carmel Planning Board 60 McAlpin Avenue Mahopac, New York 10541

RE: 1035 Rt 6 - Platinum Propane

Town of Carmel TM# 65.10-2-11

Dear Chairman Paeprer and Members of the Board:

Please find enclosed the following plans and documents in support of an application for site plan approval for the above referenced project:

Architectural Rendering by Michael Piccirillo Architecture PLLC, dated March 15, 2023.

All comments from the Town's consultants to this point have been satisfied.

With regard to comments raised at the March 9, 2023 meeting of the Planning Board by the Chairman and other members, regarding the proposed materials for the lean to building, we offer the enclosed architectural rendered elevation, which includes material swatches. The architect will also make samples available for distribution at the April 13 meeting.

Please place the project on the April 13, 2023 Planning Board agenda for a public hearing and discussion of the project with the Board. Should you have any questions or comments regarding this information, please feel free to contact our office.

Very truly yours,

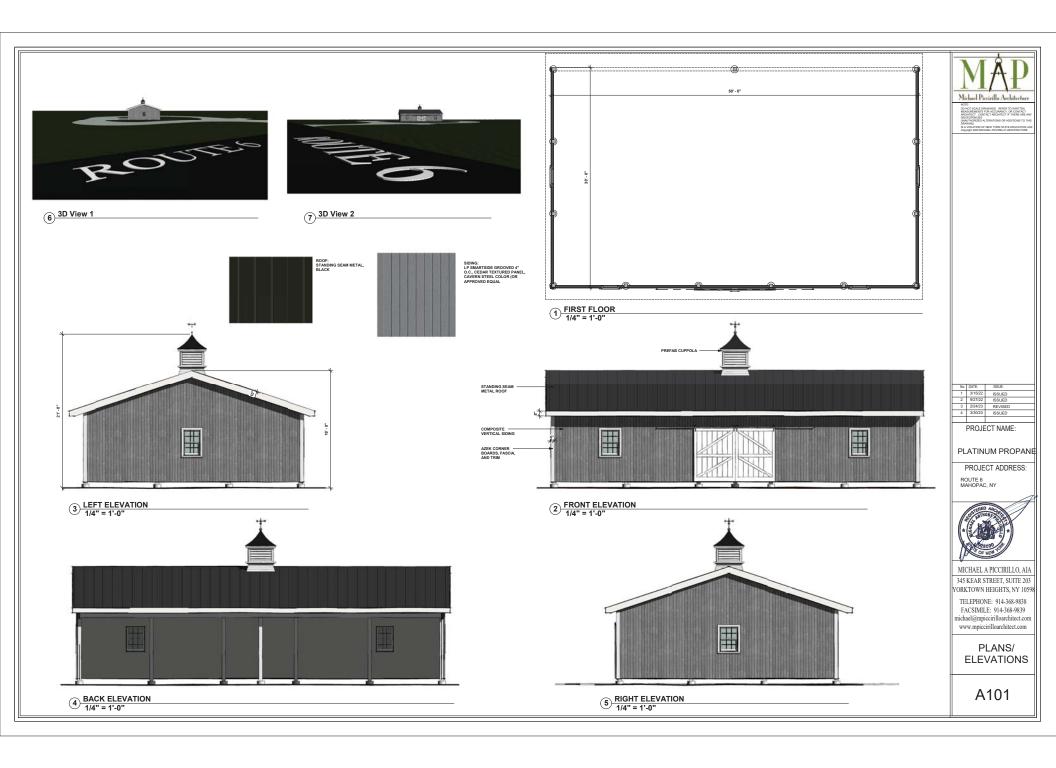
INSITE ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE, P.C.

Zachary M. Pearson, PE Principal Engineer

ZMP/adt

Enclosures

cc: (All via email only) Joseph Covais, Michael Velardo, Stacy Silvers, Mahopac Fire Department





Rohit T. Aggarwala
Commissioner

Ana Barrio

Deputy Commissioner
Bureau of Engineering
Design & Construction

Sean McAndrew, P.E. *Executive Director*Water System Capital
Program

16 Little Hollow Road Grahamsville, NY 12740

Tel. (845) 334-7195 Fax (845) 985-2282 mcandrews@dep.nyc.gov April 5, 2023

Town of Carmel Environmental Conservation Board Attn: Rose Trombetta 60 McAlpin Avenue Mahopac, NY 10541

RE: CRO-534: West Branch Reservoir Auxiliary Dam (Putnam County) Slope Improvement Project

New York City Department of Environmental Protection Bureau of Engineering, Design and Construction

Dear Planning Board Members,

The New York City Department of Environmental Protection (DEP) have met with the Town of Carmel's Environmental Conservation Board (ECB) and have addressed their comments. The Thirty (30) days public notice will end in mid-April. We are anticipating that we will receive the permit from ECB on April 20, 2023.

The DEP is requesting to be added to the Planning Board's next available meeting agenda.

Should there be questions or additional information required to process this application, please contact Linda Singh (Accountable Manager) at 917-207-9477 or via e-mail at LindaSi@dep.nyc.gov.

Very truly yours,

Paul Costa, P.E.

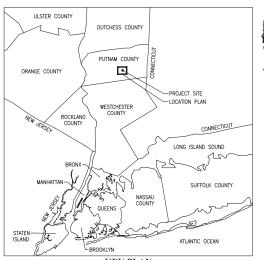
Portfolio Manager



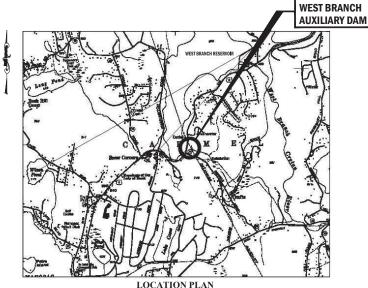
NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF ENGINEERING DESIGN AND CONSTRUCTION

WEST BRANCH AUXILIARY DAM SLOPE SAFETY IMPROVEMENTS CONTRACT CRO-534

PUTNAM COUNTY, NEW YORK MAY 2022



KEY PLAN



100% SUBMISSION



ANA BARRIO DEPUTY COMMISSIONER BUREAU OF ENGINEERING DESIGN AND CONSTRUCTION ROHIT T. AGGARWALA COMMISSIONER DEPARTMENT OF ENVIRONMENTAL PROTECTION



PROJECT SITE

SHEET#	DRAWING #	SHEET TITLE
1	G-000.00	COVER SHEET
2	G-001.00	INDEX
3	G-002.00	LEGEND & ABBREVIATIONS
4	G-003.00	GENERAL NOTES
5	G-004.00	SITE PLAN OVERVIEW
6	V-001.00	EXISTING CONDITIONS PLAN (1 OF 5)
7	V-002.00	EXISTING CONDITIONS PLAN (2 OF 5)
8	V-003.00	EXISTING CONDITIONS PLAN (3 OF 5)
9	V-004.00	EXISTING CONDITIONS PLAN (4 OF 5)
10	V-005.00	EXISTING CONDITIONS PLAN (5 OF 5)
11	C-001.00	PROPOSED SITE PLAN (1 OF 5)
12	C-002.00	PROPOSED SITE PLAN (2 OF 5)
13	C-003.00	PROPOSED SITE PLAN (3 OF 5)
14	C-004.00	PROPOSED SITE PLAN (4 OF 5)
15	C-005.00	PROPOSED SITE PLAN (5 OF 5)
16	C-006.00	GENERAL SITE GRADING PLAN (1 OF 2)
17	C-007.00	GENERAL SITE GRADING PLAN (2 OF 2)
18	C-008.00	FINAL SITE GRADING PLAN - TEMPORARY ACCESS ROAD
19	C-009.00	PROPOSED DAM SECTIONS (1 OF 2)
20	C-010.00	PROPOSED DAM SECTIONS (2 OF 2)
21	C-011.00	ROADWAY PLAN (1 OF 3)
22	C-012.00	ROADWAY PLAN (2 OF 3)
23	G-013.00	ROADWAY PLAN (3 OF 3)
24	C-014.00	ROADWAY PROFILES
25	C-015.00	SITE ACCESS ROAD PROFILE (1 OF 2)
26	C-016.00	SITE ACCESS ROAD PROFILE (2 OF 2)
27	C-017.00	TYPICAL ROADWAY SECTIONS (1 OF 2)
28	C-018.00	TYPICAL ROADWAY SECTIONS (1 OF 2)
29	C-019.00	WORK ZONE TRAFFIC CONTROL NOTES
30	C-020.00	WORK ZONE TRAFFIC CONTROL PLAN - STAGE I
31	C-021.00	WORK ZONE TRAFFIC CONTROL PLAN - STAGE II
32	C-021.00	WORK ZONE TRAFFIC CONTROL PLAN - STAGES III-A, IV-A & VI-A
32	C-022.00	WORK ZONE TRAFFIC CONTROL PLAN - STAGES III-A, IV-B & VI-B
34	C-024.00	WORK ZONE TRAFFIC CONTROL PLAN - STAGES IND, IVID & VID
34	C-024.00 C-025.00	WORK ZONE TRAFFIC CONTROL PLAN - STAGE V WORK ZONE TRAFFIC CONTROL PLAN - STAGE VI-C
36	C-025.00	WORK ZONE TRAFFIC CONTROL PLAN - STAGE VI-D
37	C-027.00	WORK ZONE TRAFFIC CONTROL - TEMPORARY TRAFFIC SIGNAL PLAN
38	C-028.00	WORK ZONE TRAFFIC CONTROL - MISCELLANEOUS DETAILS
39	C-029.00	WORK ZONE TRAFFIC CONTROL STAGING SECTIONS (1 OF 2)
40	C-030.00	WORK ZONE TRAFFIC CONTROL STAGING SECTIONS (2 OF 2)
41	C-031.00	DRAINAGE & PIPING PLAN (1 OF 2)
42	C-031.00	DRAINAGE & PIPING PLAN (1 OF 2)
42	C-032.00	BIORETENTION SWALE PLAN & DETAILS
44	C-034.00	STORM DRAIN PIPING PROFILE
44	C-034.00	TOE DRAIN PIPING PROFILE
45	C-035.00	
46	C-036.00 C-037.00	DRAINAGE DETAILS (1 OF 2) DRAINAGE DETAILS (2 OF 2)
47	C-037.00 C-038.00	DRAINAGE DETAILS (2 OF 2)
48	C-038.00 C-039.00	SEEPAGE CHAMBER DETAILS
50	C-039.00 C-040.00	INTERMEDIATE VAULT DETAILS (1 OF 2)
50	C-040.00 C-041.00	
51	C-041.00 C-042.00	INTERMEDIATE VAULT DETAILS (2 OF 2) PHASE 0 SOIL EROSION & SEDIMENT CONTROL PLAN (1 OF 2)
52	C-042.00 C-043.00	
53		PHASE 0 SOIL EROSION & SEDIMENT CONTROL PLAN (2 OF 2)
54	C-044.00 C-045.00	PHASE I SOIL EROSION & SEDIMENT CONTROL PLAN (1 OF 2)
55	C-045.00 C-046.00	PHASE I SOIL EROSION & SEDIMENT CONTROL PLAN (2 OF 2)
		PHASE II SOIL EROSION & SEDIMENT CONTROL PLAN (1 OF 2)
57	C-047.00	PHASE II SOIL EROSION & SEDIMENT CONTROL PLAN (2 OF 2)
58	C-048.00	SOIL EROSION & SEDIMENT CONTROL DETAILS (1 OF 2)
59	C-049.00	SOIL EROSION & SEDIMENT CONTROL DETAILS (2 OF 2)
60	C-050.00	GUIDE RAIL PLAN (1 OF 3)
61	C-051.00	GUIDE RAIL PLAN (2 OF 3)
62	C-052.00	GUIDE RAIL PLAN (3 OF 3)
63	C-053.00	GUIDE RAIL DETAILS (1 OF 6)
64	C-054.00	GUIDE RAIL DETAILS (2 OF 6)
65	C-055.00	GUIDE RAIL DETAILS (3 OF 6)
66	C-056.00	GUIDE RAIL DETAILS (4 OF 6)

INDEX OF DRAWINGS

	IN	IDEX OF DRAWINGS
SHEET#	DRAWING#	SHEET TITLE
69	C-059.00	SIGN & PAVEMENT MARKING PLAN (1 OF 3)
70	C-060.00	SIGN & PAVEMENT MARKING PLAN (2 OF 3)
71	C-061.00	SIGN & PAVEMENT MARKING PLAN (3 OF 3)
72	L-001.00	TREE REMOVAL PLAN (1 OF 4)
73	L-002.00	TREE REMOVAL PLAN (2 OF 4)
74	L-003.00	TREE REMOVAL PLAN (3 OF 4)
75	L-004.00	TREE REMOVAL PLAN (4 OF 4)
76	GI-001.00	INSTRUMENTATION LEGEND
77	I-001.00	INSTRUMENTATION PLAN
78	I-002.00	CONTROL SYSTEM ARCHITECTURE
79	I-003.00	AUXILIARY DAM MONITORING P&ID
80	1-004.00	INSTALLATION DETAILS (1 OF 2)
81	1-005.00	INSTALLATION DETAILS (2 OF 2)

NYSDOT ITEM #	DESCRIPTION	UNIT
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CY
203.03	EMBANKMENT IN PLACE	CY
203.21	SELECT STRUCTURAL FILL	CY
206.0201	TRENCH AND CULVERT EXCAVATION	CY
207.20	GEOTEXTILE BEDDING	SY
207.21	GEOTEXTILE SEPARATION	SY
209.110601	CHECK DAM (DITCH BOTTOM WIDTH 0.0FT TO 3FT) - PERMANENT	EA
209.13	SILT FENCE – TEMPORARY	LF
209.1501	TURBIDITY CURTAIN – TEMPORARY	LF
209.1801	ROLLED EROSION CONTROL PRODUCT, CLASS I TYPE A, SHORT TERM	SY
209.22	CONSTRUCTION ENTRANCE	SY
304.11	SUBBASE COURSE, TYPE 1	CY
304.15	SUBBASE COURSE, OPTIONAL TYPE	CY
402.097204	9.5 F2 TOP COURSE HMA, 70 SERIES COMPACTION	TON
402.197904	19 F9 BINDER COURSE HMA, 70 SERIES COMPACTION	TON
402.377904	37.5 F9 BASE COURSE HMA, 70 SERIES COMPACTION	TON
407.0103	STRAIGHT TACK COAT	GAL
416.10000018	COLD RECYCLING ASPHALT CONCRETE - COARSE	SY
416.20000018	ASPHALT EMULSION	GAL
416.22000018	PERFORMANCE GRADED BINDER	GAL
416.30000018	FOG SEAL	GAL
418.7603	ASPHALT PAVEMENT JOINT ADHESIVE	LF
490.30	MISCELLANEOUS COLD MILLING	SY
520.09000010	SAW CUTTING ASPHALT CONCRETE	LF
552.17	SHIELDS AND SHORING	SF
603.171116	GALVANIZED STEEL END SECTIONS – PIPE (2-2/3" X 1/2" CORRUGATIONS) 15 INCH DIAMETER, 16 GAUGE	EA
603.171216	GALVANIZED STEEL END SECTIONS – PIPE (2-2/3" X ½" CORRUGATIONS) 18 INCH DIAMETER, 16 GAUGE	EA
603.171614	GALVANIZED STEEL END SECTIONS – PIPE (2-2/3" X ½" CORRUGATIONS) 30 INCH DIAMETER, 16 GAUGE	EA
603.98060005	POLYVINYL CHLORIDE PRESSURE PIPE (SEWER) 6 NPS	LF
603.98100402	SMOOTH INTERIOR PERFORATED CORRUGATED POLYETHYLENEN UNDERDRAIN PIPE - 4 INCH	LF
603.9812	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN PIPE (12")	LF
603.9815	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN PIPE (15")	LF
603.9824	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN PIPE (24")	LF
604.10	PREFABRICATED ADJUSTMENT RINGS FOR MANHOLES	EA
604.300203	RECTANGULAR DRAINAGE STRUCTURE - STRUCTURE TYPE 02 - FRAME NO. 03	LF
604.301873	RECTANGULAR DRAINAGE STRUCTURE - STRUCTURE TYPE R FOR CAST IRON R3 FRAME	LF
604.4048	4FT DIAMETER PRECAST MANHOLE	LF
604.4072	6FT DIAMETER PRECAST MANHOLE	LF
605.0901	UNDERDRAIN FILTER, TYPE I	CY
605.1602	PERFORATED POLYVINYL CHLORIDE UNDERDRAIN PIPE (6")	LF

SUMMARY OF PROPOSED WORK & CONSTRUCTION SEQUENCE

- 1. PROVIDE REQUIRED SUBMITTALS & OBTAIN APPROVALS
 2. MOBILLET TO PROJECT SITE
 3. MPLEMENT SWEPP & INSTALL SOL & WATER POLLUTION CONTROL MEASURES
 4. INSTALL WORK ZONE TRAFFIC CONTROL SYSTEMS
 5. COMPITEET THEE REMOVALS
 6. CONSTRUCT TEMPORARY SITE ACCESS ROAD & ENTRANCE WIDENING
 7. INSTALL BURBANKMENT TOO BORAIN & SEPAGE INSTRUMENTATION
 8. CONSTRUCT BURBANKMENT TOO BORAIN & SEPAGE INSTRUMENTATION
 9. INSTALL SLOPE MONTORING INSTRUMENTATION
 10. ACCESS LOW LEVEL OUTLET TUNNEL & REMOVE OUTLET PIPE
 1. CONSTRUCT ROLL TEMPORARY SITE ACCESS ROAD
 15. RESURFACE EXISTING SITE ACCESS ROAD
 16. RESURFACE EXISTING SITE ACCESS ROAD
 17. CONTRACT CLOSEOUT
 17. CONTRACT CLOSEOUT

NYSDOT ITEM #	DESCRIPTION	UNIT
606.10	BOX BEAM GUIDE RAILING	LF
606.100002	BOX BEAM GUIDE RAILING (SHOP BENT OR SHOP MITERED)	LF
606.120101	BOX BEAM END ASSEMBLY, TYPE I	EA
606.18	WEAK-POST, CORRUGATED BEAM GUIDE RAIL	LF
606.180001	WEAK-POST, CORRUGATED BEAM GUIDE RAIL (SHOP CURVED)	LF
606.22	ANCHORAGE UNITS FOR CORRUGATED BEAM GUIDE RAILING	EA
606.71	REMOVING AND DISPOSING CORRUGATED BEAM GUIDE RAILING	LF
606.73	REMOVING AND DISPOSING BOX BEAM GUIDE RAILING	LF
606.7910	REMOVING AND DISPOSING ANCHORAGE UNITS FOR CORRUGATED BEAM GUIDE RAILING AND MEDIAN BARRIER	EA
606.8101	GUIDE RAIL TRANSITION WEAK-POST CORRUGATED BEAM TO BOX BEAM GUIDE RAIL (ONE OR TWO WAY OPERATION)	EA
609.0401	CAST-IN-PLACE CONCRETE CURB	LF
610.1402	TOPSOIL - ROADSIDE	CY
610.1601	TURF ESTABLISHMENT – ROADSIDE	SY
619.01	BASIC WORK ZONE TRAFFIC CONTROL	LS
619.1301	TEMPORARY TRAFFIC SIGNALS	ELO
619.1302	TEMPORARY TRAFFIC SIGNALS	ELO
619.1303	TEMPORARY TRAFFIC SIGNALS	ELO
619.1304	TEMPORARY TRAFFIC SIGNALS	ELO
619.1305	TEMPORARY TRAFFIC SIGNALS	ELO
619.1712	TEMPORARY POSITIVE BARRIER - CATEGORY 2 (PINNING PERMITTED)	LF
619.24	NIGHTTIME OPERATIONS	LS
619.25	TRAFFIC CONTROL SUPERVISOR	MO
620.03	LIGHT STONE FILL	CY
620.04	MEDIUM STONE FILL	CY
620.0801	BEDDING MATERIAL, TYPE 1	CY
623.03	CRUSHED STONE (BY WEIGHT)	TON
625.01	SURVEY OPERATIONS	LS
645.5202	GROUND MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 30 SQ FT, WITH Z-BARS, HIGH VISIBILITY SHEETING	SF
645.81	TYPE A SIGN POSTS	EA
645.81090003	RETROREFLECTIVE SIGN POST STRIP	EA
646.22	DELINEATOR, SNOWPLOWING MARKER, SUPPLEMENTARY SNOWPLOWING MARKER PANELS	EA
646.31	STEEL POST, 1.1 LB/FT	EA
647.51	REMOVE AND DISPOSE SIGN PANEL, SIGN PANEL ASSEMBLY SIZE 1 (UNDER 30 SQ FT)	EA
647.83001002	REMOVE AND DISPOSE OF DELINEATORS AND/OR REFERENCE MARKERS WITH OR WITHOUT POSTS	EA
655.0706	CAST FRAME F3, UNMOUNTABLE CURB BOX CU3 & RETICULINE GRATE G3	EA
655.1003	WELDED FRAME & RECTANGULAR GRATE 3	EA
655.1202	MANHOLE FRAME AND COVER	EA
685.01	WHITE EPOXY REFLECTORIZED PAVEMENT STRIPES - 15 MILS	LF
685 02	YELLOW EPOXY REFLECTORIZED PAVEMENT STRIPES – 15 MILS	LE

100% SUBMISSION DATE SUBMITTED: 5/26/2022

Ī				DESIGNED BY:	DRAWN BY:
Ī				M. POWELL	M. POWELL
+				CHECKED BY:	ODA!
				E. LECLAIR	GUW
				DESIGN LEAD:	Smith
ī				S. MURPHY	11 British American Blvd. Suite 2
T				SECTION MANAGER:	Letham, NY 12110
Э.	DATE	REVISIONS/DESCRIPTION	APPR'D.	E. LECLAIR	Tel: (518) 782-4500

C-057.00

C-058.00

GUIDE RAIL DETAILS (5 OF 6)

GUIDE RAIL DETAILS (6 OF 6)





PROVED FOR THE CITY OF NEW YORK	YORK STATE EDUCATION LAW, SEC 7209.2, FOR ANY PERSON, UNLESS
SINGH CCOUNTABLE MANAGER	IS ACTING UNDER THE DIRECTION I LICENSED PROFESSIONAL ENGINE ALTER THIS DOCUMENT IN ANY WA ALTERED, THE ALTERING PERSON
COSTA DRIFFOLIO MANAGER	COMPLY WITH THE REQUIREMENTS NEW YORK EDUCATION, LAW, SECT 7209.2."

THE NEW ECTION, S (S)HE N OF A EER, TO /AY, IF N SHALL ITS OF CTION, NEW YORK CITY ENVIRONMENTAL PROTECTION

BUREAU OF ENGINEERING DESIGN & CONSTRUCTION 96-05 HORACE HARDING EXPRESSWAY 5th FLOOR CORONA, NEW YORK 11368 www.nyc.gov/dep

WEST BRANCH AUXILIARY DAM SLOPE SAFETY IMPROVEMENTS PUTNAM COUNTY, NEW YORK

INDEX

DATE: 3/31/2023
SCALE: N/A
SHEET NO:
2 OF 81
DRAWING NO.
G-001.00

ABBREVIATIONS

APPROXIMATE

RR

RT

SAN

SICPP

SMH

SQ

ST

STA

TEMP

TGL

TW

TYP

XFMR

UG

UNO

UP

w

RAILROAD

RIGHT

SANITARY

SQUARE

STORM

STATION TANGENT

TEMPORARY

TOP OF WALL

WIDE/WIDTH

TRANSFORMER

UNDERGROUND

UTILITY POLE

VERTICAL

DIAMETER

DELTA

BASELINE CENTERLINE

TYPICAL

THEORETICAL GRADE LINE

UNLESS NOTED OTHERWISE

SANITARY MANHOLE

SMOOTH INTERIOR CORRUGATED POLYETHYLENE PIPE

ALLINOX	ALTROAMATE
ASPH	ASPHALT
В	BORING
BIT	BITUMINOUS CONCRETE
BW	BOTTOM OF WALL
CB	CATCH BASIN
CC	CONCRETE CURB
CLF	CHAIN LINK FENCE
CMP	CORRUGATED METAL PIPE
co	CLEAN OUT
COMM	COMMUNICATION
CONC	CONCRETE
CONST	CONSTRUCTION
CR	COUNTY ROUTE
DIP	DUCTILE IRON PIPE
DMH	DRAINAGE MANHOLE
EHS	ENVIRONMENTAL HEALTH & SAFETY
EOP	EDGE OF PAVEMENT
E	EASTING
ELEC	ELECTRIC
EL	ELEVATION
ELEV	ELEVATION
EX, EXIST	EXISTING
FNC	FENCE
FND	FOUND
FO	FIBER-OPTIC
GRES	GEOSYNTHETIC REINFORCED EARTH SYSTEM
Н	HORIZONTAL
HDPE	HIGH-DENSITY POLYETHYLENE
HMA	HOT-MIX ASPHALT
IN	INCHES
INV	INVERT
L	LENGTH
LT	LEFT
MAX	MAXIMUM
N	NORTHING
N/A	NOT APPLICABLE / NOT AVAILABLE
N/F	NOW/FORMERLY
NYCDEP	NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION
NYSDEC	NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
NYSDOT	NEW YORK STATE DEPARTMENT OF TRANSPORTATION
NYSEG	NEW YORK STATE ELECTRIC & GAS
ОН	OVERHEAD
PI	POINT OF INTERSECTION
PL	PROPERTY LINE
PROP	PROPOSED
PVI	POINT OF VERTICAL INTERSECTION
PVC	POLYVINYL CHLORIDE PIPE
PVMT	PAVEMENT
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
REC	RECORD
ROW	RIGHT OF WAY

100% SUBMISSION DATE SUBMITTED: 5/26/2022

ocation	П				DESIGNED BY:	DRAWN BY:
찡	П				M. POWELL	M. POWELL
ادّ	Н				CHECKED BY:	
	ш				E. LECLAIR	GUW
Name:					DESIGN LEAD:	Smith
g	П				S, MURPHY	11 British American Blvd. Suite 2
rawing	NΩ	DATE	REVISIONS/DESCRIPTION	APPR'D.	SECTION MANAGER:	Latham, NY 12110 Tel: (518) 782-4500
Š	NU.	DATE	REVISIONS/DESCRIPTION	APPRID.	E. LECLAIR	Tal: (516) 782-4500





	APPROVED FOR THE CITT OF NEW YORK
7	L. SINGH ACCOUNTABLE MANAGER
	P. COSTA PORTFOLIO MANAGER

WARNINGJITIS A VIOLATION, OF THE NEW YORK STATE EDUCATION LAW, SECTION, 2008, FOR AMP PERSON, URLESS (SYME IS ACTINO UNDER THE DIRECTION OF A UNDE

NEW YORK CITY ENVIRONMENTAL PROTECTION BUREAU OF ENGINEERING DESIGN & CONSTRUCTION

BUREAU OF ENGINEERING DESIGN & CONSTRUCTION 96-05 HORACE HARDING EXPRESSWAY 5th FLOOR CORONA, NEW YORK 11368 www.nyc.gov/dep WEST BRANCH AUXILIARY DAM SLOPE SAFETY IMPROVEMENTS PUTNAM COUNTY, NEW YORK

LEGEND & ABBREVIATIONS

DATE: 3/31/2023
SCALE: N/A
SHEET NO:
3 OF 81
DRAWING NO.
G-005 00

LEGEND EXISTING

GENERAL NOTES

- THE CONTRACTOR SHALL NOTIFY THE ACCOUNTABLE MANAGER AT THE NYC ENVIRONMENTAL PROTECTION, BUREAU OF ENGINEERING DESIGN & CONSTRUCTION AT LEAST 20 DAYS BEFORE THE START OF CONSTRUCTION TO SCHEDULE A PRE-CONSTRUCTION MEETING.
- PRIOR TO ANY WORK PERMITS BRING ISSUED, A PRE-CONSTRUCTION MEETING WILL BE HELD TWENTY (20) DAYS IN ADVANCE WITH THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT). THE CONTRACTOR SHALL PROVIDE A CONSTRUCTION SCHEDULE TO THE NYCDEP TWENTY (20) DAYS IN ADVANCE TO THE NYSDOT MEETING. THE ARRANGEMENTS FOR THE MEETING WILL BE COORDINATED BY THE NYCDER
- CONTRACTOR SHALL PROVIDE ACCESS FOR EMERGENCY TRAFFIC AT ALL TIMES UPON DEMAND. THE CONTRACTOR SHALL BE REQUIRED TO MOVE AND RESTORE BARRICADES AS ORDERED BY THE ENGINEER FOR EMERGENCY ACCESS AT NO DIRECT PAYMENT, CONTRACTOR SHALL MAINTAIN AT ALL TIMES A MINIMUM OF TEN (10) FEET OF ROADWAY ACCESS ON US ROUTE 6 FOR EMERGENCY VEHICLES
- 4. ELEVATIONS SHOWN ON THIS DRAWING REFER TO VERTICAL DATUM NAVD 1988. TO CONVERT FROM NAVD 1988 TO NGVD 1929 ADD
- THE CONTRACTOR SHALL FIELD VERIFY EXISTING LOCATIONS, DIMENSIONS AND ELEVATIONS PRIOR TO THE START OF WORK IN ACCORDANCE TO NYSDOT STANDARD SPECIFICATION SECTION 625. SURVEY OPERATIONS.
- REFER TO WORK ZONE TRAFFIC CONTROL PLANS FOR TRAFFIC RELATED NOTES
- THE CONTRACTOR SHALL PROVIDE THREE (3) VARIABLE MESSAGE SIGN (VMS) BOARDS DURING CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT PROPOSED SIGN LOCATIONS AND MESSAGES TO BE DISPLAYED FOR REVIEW AND APPROVAL BY THE ENGINEER. THE CONTRACTOR IS HEREIN ADVISED THAT INITIALLY APPROVED LOCATION OF SIGNS AND MESSAGES TO BE DISPLAYED CAN BE REVISED AS NEEDED BASED ON ACTUAL FIELD CONDITIONS IN COORDINATION WITH THE ENGINEER AT NO ADDITIONAL COST. THE REPOSITIONING OF SIGNS AND CHANGES TO ITS VARIABLE MESSAGE LIBRARY SHALL BE DEEMED INCLUDED IN THE CONTRACTOR'S
- BEFORE LEAVING THE CONSTRUCTION AREA. PROVISIONS MUST BE MADE TO REMOVE EXCESS SOIL. DUST AND DIRT FROM VEHICLES IN ORDER TO KEEP THE PUBLIC STREETS CLEAN, ADDITIONALLY, STREETS MAY NEED TO BE CLEANED PERIODICALLY OR EVERYDAY TO REMOVE SAID DUST/DIRT
- CONTRACTOR SHALL FREQUENTLY DAMPEN SOIL IN WORK AREA TO REDUCE DUST FROM THE WORK, THE COST FOR DUST CONTROL SHALL BE DEEMED INCLUDED IN THE CONTRACTOR'S BID PRICE FOR ITEM 619.01.
- 10. MATERIALS USED FOR THE TEMPORARY ACCESS ROAD SHALL CREATE A DURABLE SURFACE (CRUSHED STONE OR EQUAL) AND SHALL LIMIT TRACKING OF SEDIMENT ONTO ADJACENT ROADWAYS OR SURFACES, THE CONTRACTORS ATTENTION IS DIRECTED TO THE STEEP SLOPE OF THE TEMPORARY ACCESS ROAD, AND THIS ROAD SHALL BE MAINTAINED THROUGHOUT THE CONTRACT
- 11. ALL REQUIRED PERMITS LISTED IN SPECIFICATION 01 41 00 REGULATORY REQUIREMENTS MUST BE APPROVED PRIOR TO INITIATION OF WORK (CLEARING AND GRUBBING), THIS INCLUDES PERMITS TO BE OBTAIN BOTH BY THE CONTRACTOR AND THE OWNER (ON BEHALF OF THE CONTRACTOR),

GENERAL CONDITIONS

- LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE ONLY, AND ARE NOT WARRANTED TO BE CORRECT. ALL EXISTING LITH THE SHALL BE VERIFIED FOR SERVICE. SIZE, INVERTIFIED AND LOCATIONS FTC, PRIOR TO THE START OF ANY WORK IN THE GENERAL AREA. CONTRACTOR MUST NOTIFY "DIG SAFELY, NEW YORK" AT 1-800-962-7962 OR 811 WITHIN NEW YORK, AT LEAST 72 HOURS PRIOR TO ANY CONSTRUCTION. NOTIFY ENGINEER IN WRITING OF ANY AND ALL DISCREPANCIES PRIOR TO COMMENCING
- THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING AND MAINTAINING THE EXISTING OVERHEAD AND BURIED LITH ITIES. HROUGHOUT THE DURATION OF THE PROJECT
- THE DESIGNATED COMPETENT PERSON FOR EXCAVATION SHALL HAVE A CERTIFIED EXCAVATOR CERTIFICATION AS PROVIDED FOR IN NEW YORK STATE
- THE RESPONSIBILITY FOR SAFETY IN, ON OR ABOUT THE JOBSITE SHALL BE THAT OF THE CONSTRUCTION CONTRACTOR. THESE DRAWINGS DO NOT INCLUDE COMPONENTS WHICH MAY BE NECESSARY FOR CONSTRUCTION SAFETY. REFER TO EHS
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION, EXCEPT WHERE SPECIFICALLY DETAILED IN THE PLANS, SPECIFICATIONS, SWPPP, PERMIT REQUIREMENTS AND WORK RESTRICTIONS. LIKEWISE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SEQUENCE OF THE WORK, EXCEPT WHERE SPECIFICALLY DETAILED IN THE PLANS AND
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SURFACE AND GROUNDWATER CONTROL DURING THE WORK OF THE CONTRACT. TEMPORARY WATER CONTROL MEASURES SHALL BE, AT MINIMUM, AS REQUIRED BY THE PROJECT PLANS, SPECIFICATIONS, AND PERMIT CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ADDITIONAL MEASURES NECESSARY FOR WATER CONTROL NECESSARY TO EXECUTE THE WORK OF THE CONTRACT IN THE DRY. CONTRACTOR'S METHODS OF WATER CONTROL ARE SUBJECT TO LIMITS AND CONDITIONS AS DESCRIBED IN THE PLANS AND SPECIFICATIONS. THE RESERVOIR WATER LEVEL IS CONTROLLED BY THE NYCDEP AT THEIR SOLE DISCRETION

- 7 THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY SEDIMENT AND EROSION CONTROL DURING THE WORK OF THE CONTRACT. TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE, AT MINIMUM, AS REQUIRED BY THE PROJECT PLANS, DETAILS AND SPECIFICATIONS, AND PERMIT CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADDITIONAL MEASURES NECESSARY FOR THE PREVENTION OF SEDIMENT DISCHARGE OR EROSION AT THE SITE. WORK SHALL BE DONE IN ACCORDANCE WITH NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION SPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITY PERMIT NUMBER GP-0-20-001 & SWPPP, SEE DRAWINGS C-042.00 TO
- THE CONTRACTOR SHALL RESTORE AREAS DISTURBED BY CONSTRUCTION PER THE PLANS AND SPECIFICATIONS. WHERE NO SPECIFIC INSTRUCTION IS GIVEN, RESTORATION SHALL BE TO THE ORIGINAL CONDITION AND AT NO ADDITIONAL COST TO THE
- THE CONTRACTOR IS SPECIFICALLY INFORMED THAT THE RESTORATION REQUIREMENT APPLIES TO ALL AREAS DISTURBED AS A
- 10. IN THE EVENT OF THE DISCOVERY OF THE PRESENCE OF AN ENDANGERED PLANT OR ANIMAL IN THE WORK AREA OR STAGING AREAS, ALL WORK IN THE IMMEDIATE AREA OF THE FIND SHALL STOP AND THE OWNER AND ENGINEER SHALL BE NOTIFIED IMMEDIATELY. WORK IN THE IMMEDIATE AREA SHALL BE DISCONTINUED UNTIL CLEARANCE IS GRANTED BY THE OWNER. REFER TO SPECIFICATION SECTION 01 14 00 - WORK RESTRICTIONS
- 11. IN THE EVENT OF THE DISCOVERY OF A PREVIOUSLY UNKNOWN ARCHEOLOGICAL SITE, POTENTIAL CULTURAL ARTIFACTS OR RESOURCES, OR ANY OTHER UNUSUAL ITEMS OR CONDITIONS, ALL WORK IN THE IMMEDIATE AREA OF THE FIND SHALL STOP AND THE OWNER AND ENGINEER WILL BE NOTIFIED IMMEDIATELY. WORK IN THE IMMEDIATE AREA SHALL BE DISCONTINUED UNTIL CLEARANCE IS GRANTED BY THE OWNER, REFER TO SPECIFICATION SECTION 01 14 00 - WORK RESTRICTIONS
- THE CONTRACTOR IS HEREBY NOTIFIED THERE IS LIMITED WORK AREA AND LIMITED AREAS FOR STAGING AS NOTED ON DRAWING G-004.00. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING MEANS AND METHODS WHICH ACCOUNT FOR THESE SITE CONSTRAINTS, NO STOCKPILES WILL BE ALLOWED IN WORK AREAS.
- 13. THE CONTRACTOR IS HEREBY NOTIFIED THAT NO CONCRETE WASHOUT IS ALLOWED ON THE PROJECT SITE
- 14. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY SECURITY GATES, AND SHALL REMOVE, STORE AND RESET THE EXISTING SECURITY GATE TO THE CURRENT CONDITION. THE SUCCESSFUL BIDDER WILL COORDINATE WITH NYCDEP BUREAU OF POLICE AND SECURITY
- 15. THE CONTRACTOR SHALL PROVIDE A SAFETY FENCE ALONG THE EDGE OF THE TREE CLEARING LINE TO PREVENT ACCESS INTO THE WETLANDS
- 16 THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A STABLE AND DRY EXCAVATION USING DEWATERING SYSTEMS DEWATERING MUST BE CONTROLLED AND MONITORED TO ENSURE SOIL/SLOPE STABILITY. SLOPE STABILIZING MATERIALS (I.E. SAND, STONE, FILTER FABRIC, ETC.) MUST BE AVAILABLE ON SITE AND READY FOR USE, THE CONTRACTOR MUST BE PREPARED TO FILL AND STABILIZE ANY EXCAVATION EXHIBITING SIGNS OF POTENTIAL SLOPE FAILURE.
- 17 THE CONTRACTOR SHALL PREPARE A CONSTRUCTION PROTECTION PLAN MEETING MYS OFFICE OF PARKS, RECREATION & HISTORIC PRESERVATION (OPRHP) REQUIREMENTS SPECIFIC TO AVOIDING IMPACT TO THE WEST BRANCH AUXILIARY DAM GATEHOUSE LOCATED ALONG US ROUTE 6
- 18 THE CONTRACTOR SHALL MAINTAIN THE PERMANENT ACCESS ROAD THROUGHOUT THE DURATION OF THE WORK INCLUDING IMPORTING GRAVEL SUBBASE AS REQUIRED TO ACCOMMODATE TRUCK TRAFFIC. NO ADDITIONAL PAYMENT WILL BE MADE FOR MAINTAINING THE ACCESS ROAD.
- THE CONTRACTOR SHALL MILL A PORTION OF THE EXISTING PAVEMENT WITHIN THE FULL DEPTH RECONSTRUCTION AREA SHOWN ON THE PLANS IN ADDITION TO THE PAVEMENT MILLING AND OVERLAY AREA SHOWN ON THE PLANS. CONTRACTOR SHALL MILL PAVEMENT TO PRODUCE THE REQUIRED QUANTITIES OF MILLINGS FOR RESURFACING THE ACCESS ROAD. PAYMENT FOR THE MILLING IS INCLUDED UNDER ITEM 490.30. ALL REMAINING PAVEMENT TO BE REMOVED IS INCLUDED UNDER ITEM 203.02
- 20. THE GENERAL SCOPE OF WORK FOR THIS PROJECT IS TO CONSTRUCT SLOPE IMPROVEMENTS TO THE WEST BRANCH AUXILIARY DAM AND RECONSTRUCT PORTIONS OF US ROUTE 6 WITHIN PROJECT LIMITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL MATERIAL, EQUIPMENT, AND LABOR NECESSARY TO CONSTRUCT THE PROJECT IN ACCORDANCE WITH THE PLANS NOTES, AND DETAILS, AS SHOWN ON THE FINAL CONDITIONS PLAN
- 21. TREE CUTTING SHALL ONLY OCCUR BETWEEN NOVEMBER 1ST AND MARCH 31ST IN CONSIDERATION OF THE NORTHERN LONG EARED BAT AND THE INDIANA BAT

RECOMMENDED HIGHWAY CONSTRUCTION STAGING

THE FOLLOWING HIGHWAY CONSTRUCTION STAGING IS RECOMMENDED BASED ON COORDINATION WITH THE TOWN OF CARMEL AND NYCDEP, CONTRACTOR MAY PROPOSE REVISIONS TO HIGHWAY CONSTRUCTION STAGING FOR APPROVAL BY THE ENGINEER PRIOR TO IMPLEMENTING ANY WORK ZONE TRAFFIC CONTROL MEASURES.

PLACE EMBANKMENT FILL FROM BASE OF DAM TO TOP OF PROPOSED SUBBASE COURSE, MAINTAIN EXISTING TRAFFIC PATTERNS ON US ROUTE 6 AS SHOWN ON SHEET C-020.00.

INSTALL PROPOSED DRAINAGE PIPES AND CATCH BASINS, DRAINAGE STRUCTURES TO BE SET TO TOP OF SUBBASE GRADE, COVER

EXISTING STRUCTURES WITH STEEL PLATING. INSTALL SUBBASE COURSE WITHIN THE LIMITS OF THE DRAINAGE TRENCH TO THE FINAL SUBBASE LIMITS TO THE EAST. MAINTAIN EXISTING TRAFFIC PATTERNS ON US ROUTE 6 AS SHOWN ON SHEET C-021.00

STAGE III

REMOVE EXISTING PAVEMENT STRUCTURE AND INSTALL SUBBASE COURSE FROM EXISTING CENTERLINE TO LIMITS OF DRAINAGE TRENCH INSTALLED DURING STAGE II. REMOVE EXISTING GUIDE RAILING AND PLACE TEMPORARY CONCRETE BARRIER ALONG SHOULDER.
ESTABLISH WORK ZONE TRAFFIC CONTROL WITH TEMPORARY TRAFFIC SIGNALS FOR ONE-LANE TWO-WAY ALTERNATING TRAFFIC AS SHOWN ON SHEETS C-022.00 TO C-023.00. REMOVE EXISTING PAVEMENT AND CONSTRUCT SUBBASE IN TWO PHASES TO ALLOW ONE TRAVEL LANE OPEN TO TRAFFIC AT ALL TIMES.

STAGE IV

INSTALL BASE COURSE AND BINDER COURSE PAVEMENT. PROVIDE TEMPORARY EMBANKMENT AT EDGE OF PAVEMENT TO ENSURE STABILITY OF PAVEMENT COURSES. ADJUST DRAINAGE STRUCTURES TO FINISHED GRADE. ESTABLISH WORK ZONE TRAFFIC CONTROL WITH TEMPORARY TRAFFIC SIGNALS FOR ONE-LANE TWO-WAY ALTERNATING TRAFFIC AS SHOWN ON SHEETS C-022.00 TO C-023.00. PAVING OPERATIONS SHALL OCCUR IN TWO PHASES TO ALLOW ONE TRAVEL LANE OPEN TO TRAFFIC AT ALL TIMES

STAGE V

INSTALL CURBING USING A CONCRETE BASE WITHIN THE PAVEMENT LIMITS. CONTRACTOR MAY ELECT TO USE BASE AND BINDER COURSES IN LIEU OF CONCRETE BASE IF PAVED WIDTH FOR CURB INSTALLATION IS 4' WIDE MINIMUM. BACKFILL BEHIND CURB USING EMBANKMENT AND TOPSOIL & SEEDING TO FINISHED GRADE. INSTALL GUIDE RAILING ON EAST AND WEST SIDES OF THE ROADWAY. INSTALL PROPOSED SIGNAGE. ESTABLISH WORK ZONE TRAFFIC CONTROL WITH SHOULDER CLOSURE AS SHOWN ON SHEET C-024.00, MAINTAINING ONE LANE OF TRAFFIC IN EACH DIRECTION, ESTABLISH WORK ZONE TRAFFIC CONTROL WITH TEMPORARY TRAFFIC SIGNALS FOR ONE-LANE TWO WAY ALTERNATING TRAFFIC AS SHOWN ON SHEETS C-022 00 TO C-023 00 IF REQUIRED FOR GUIDE RAILING INSTALLATION

INSTALL TOP COURSE PAVEMENT TO FINISHED GRADE, ESTABLISH WORK ZONE TRAFFIC CONTROL WITH FLAGGING OPERATION FOR ONE-LANE TWO-WAY ALTERNATING TRAFFIC AS SHOWN ON SHEET C-028.00 FOR WORK AREAS OUTSIDE THE TEMPORARY TRAFFIC SIGNAL LIMITS, AND WITH TEMPORARY TRAFFIC SIGNALS FOR ONE-LANE TWO-WAY ALTERNATING TRAFFIC AS SHOWN ON SHEETS C-022.00 TO C-023.00 AND C-025.00 TO C-026.00 FOR WORK AREAS WITHIN THE SIGNAL LIMITS. PAVING OPERATIONS SHALL OCCUR IN ONE LANE AT A TIME TO MAINTAIN TRAFFIC IN ONE LANE AT ALL TIMES.

COMPLETE STRIPING OPERATIONS AND FINAL CLEANING OF THE SITE, ESTABLISH WORK ZONE TRAFFIC CONTROL WITH WITH FLAGGING OPERATION FOR ONE-LANE TWO-WAY ALTERNATING TRAFFIC AS SHOWN ON SHEET C-028.00 FOR WORK AREAS OUTSIDE THE TEMPORARY TRAFFIC SIGNAL LIMITS, AND WITH TEMPORARY TRAFFIC SIGNALS FOR ONEJ AND TWO-WAY ALTERNATING TRAFFIC AS SHOWN ON SHEETS. C-022.00 TO C-023.00 AND C-025.00 TO C-026.00 FOR WORK AREAS WITHIN THE SIGNAL LIMITS. STRIPING OPERATIONS SHALL OCCUR IN ONE LANE AT A TIME TO MAINTAIN TRAFFIC IN ONE LANE AT ALL TIMES.

PAYMENT NOTES

- 1. NYSDOT STANDARD PAYMENT ITEMS ARE USED FOR MEASUREMENT AND PAYMENT OF VARIOUS WORK ITEMS AS LABELED WITHIN THE PLANS. WITHIN PAYMENT LIMITS OF THE ROADWAY (US ROUTE 6 AND DREWVILLE ROAD) ARE IDENTIFIED WITH NYSDOT PAYMENT ITEM NUMBERS AND SHALL BE PAID BY UNIT PRICE. SPECIFIC ITEMS OF WORK WITHIN THE PROJECT SITE (OUTSIDE OF THE ROADWAY) WHICH ARE LABELED WITH NYSDOT ITEM NUMBERS SHALL ALSO BE PAID BY UNIT PRICE, ALL WORK NOT SPECIFICALLY IDENTIFIED WITH NYSDOT STANDARD PAY ITEM NUMBERS OR AS UNIT PRICE ITEMS IN THE BID ITEM LIST SHALL BE INCLUDED AND PAID UNDER THE LUMP SUM PAYMENT ITEMS LS-1 TO LS-5,
- 2. INSTALLATION AND MAINTENANCE OF TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL MEASURES IN ACCORDANCE WITH THE SWPPP SHALL BE PAID UNDER LUMP SUM LS-3. EXCEPT WITHIN THE ROADWAY WORK LIMITS WHERE THEY ARE SPECIFICALLY IDENTIFIED FOR PAYMENT UNDER A NYSDOT UNIT PRICE PAYMENT ITEM NUMBER,
- 3. FOR ADDITIONAL PAYMENT DETAILS REFER TO SPECIFICATION 01 27 00 MEASUREMENT AND PAYMENT.

SURVEY DETAILS:

- 1. FIELD SURVEY PERFORMED BY RYAN BIGGS CLARK DAVIS ENGINEERING & SURVEYING IN DECEMBER 2016 AND SUPPLEMENTED IN MAY 2021
- 2. BATHYMETRIC SURVEY PERFORMED BY SHUMAKER CONSULTING ENGINEERING & LAND SURVEYING IN SEPTEMBER 2016.
- 3. WETLAND DELINEATION FLAGGING WAS COMPLETED BY CDM SMITH IN AUGUST, 2016

UTILITY POLE RELOCATION:

ALL UTILITY POLE AND OVERHEAD LINE RELOCATIONS SHOWN ON THE PLANS ARE TO BE COMPLETED BY THE UTILITY OWNERS AT THEIR EXPENSE, THE CONTRACTOR SHALL COORDINATE HIS/HER WORK WITH EACH UTILITY OWNER TO AVOID CONSTRUCTION DELAY, ANY COSTS TO THE CONTRACTOR FOR COORDINATION WITH UTILITY OWNERS OR ACCOMMODATIONS MADE FOR SITE ACCESS BY THE UTILITY OWNERS SHALL BE INCLUDED IN THE PRICE BID FOR PAYMENT ITEMS LS-2 AND LS-3. THE CONTRACTOR SHALL NOT BE ENTITLED TO ANY ADDITIONAL PAYMENT RESULTING FROM DELAYS RESULTING FROM THE UTILITY RELOCATIONS.

> 100% SUBMISSION DATE SUBMITTED: 5/26/2022

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Н			_	CHECKED BY:	ODA!
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		DEL MOIONO/DECODIDETION		SECTION MANAGER:	Latham, NY 12110
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96-05 HORACE HARDING EXPRESSWAY 5th FLOOR CORONA, NEW YORK 11368

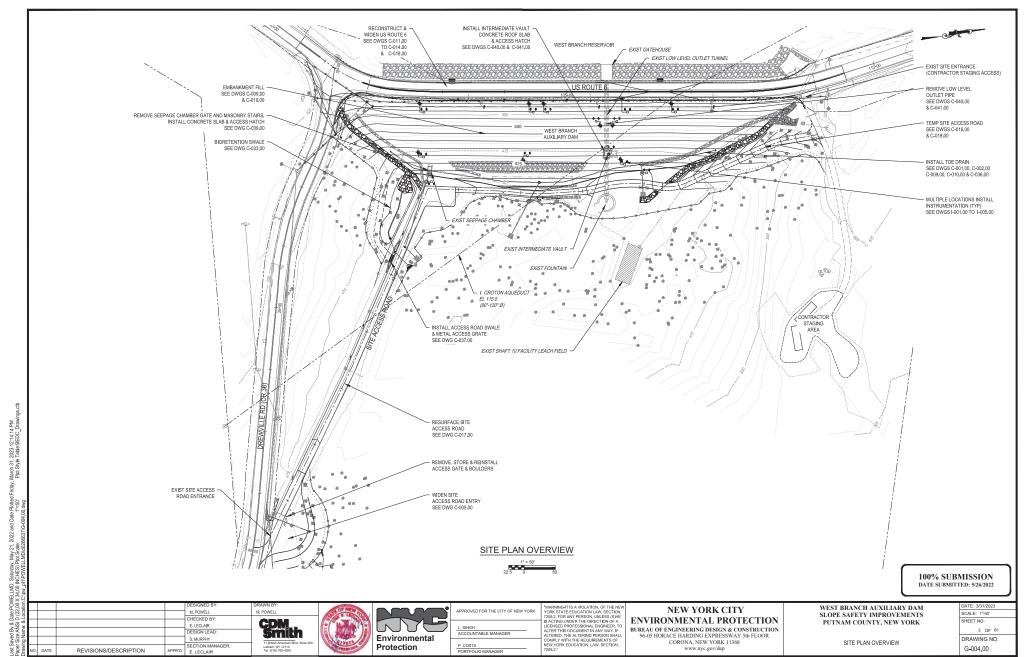
WEST BRANCH AUXILIARY DAM SLOPE SAFETY IMPROVEMENTS PUTNAM COUNTY, NEW YORK

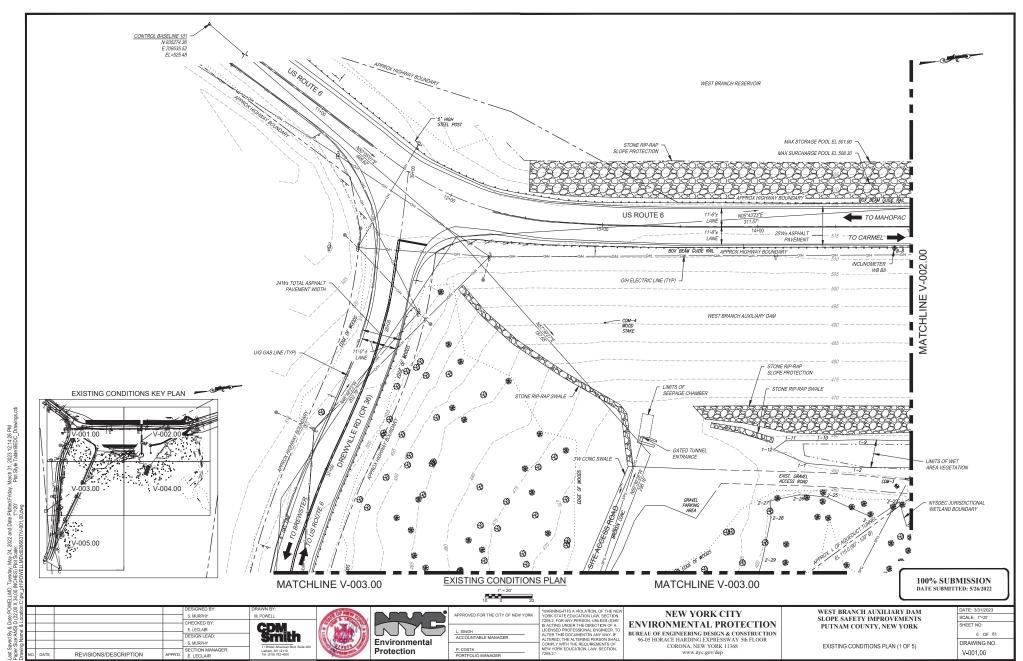
GENERAL NOTES

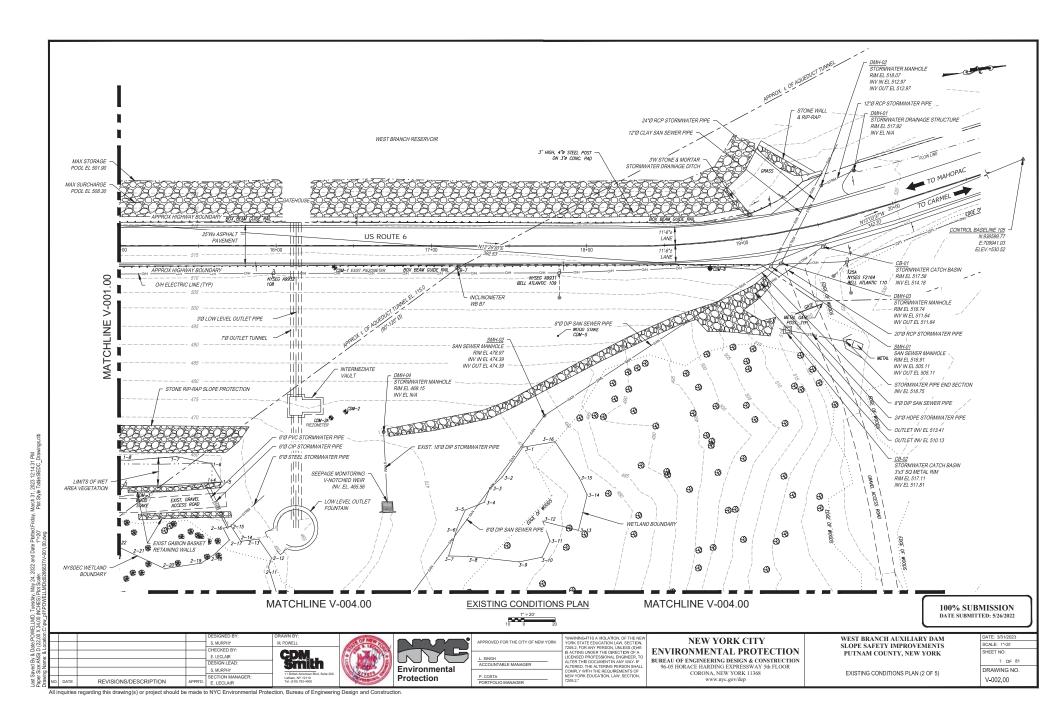
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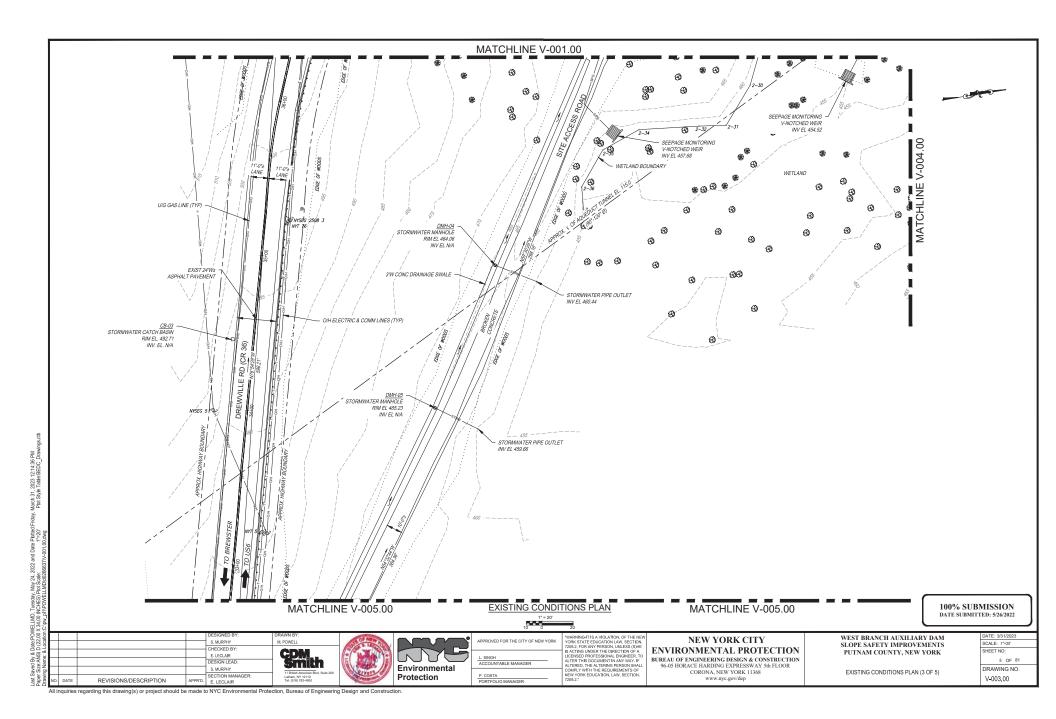
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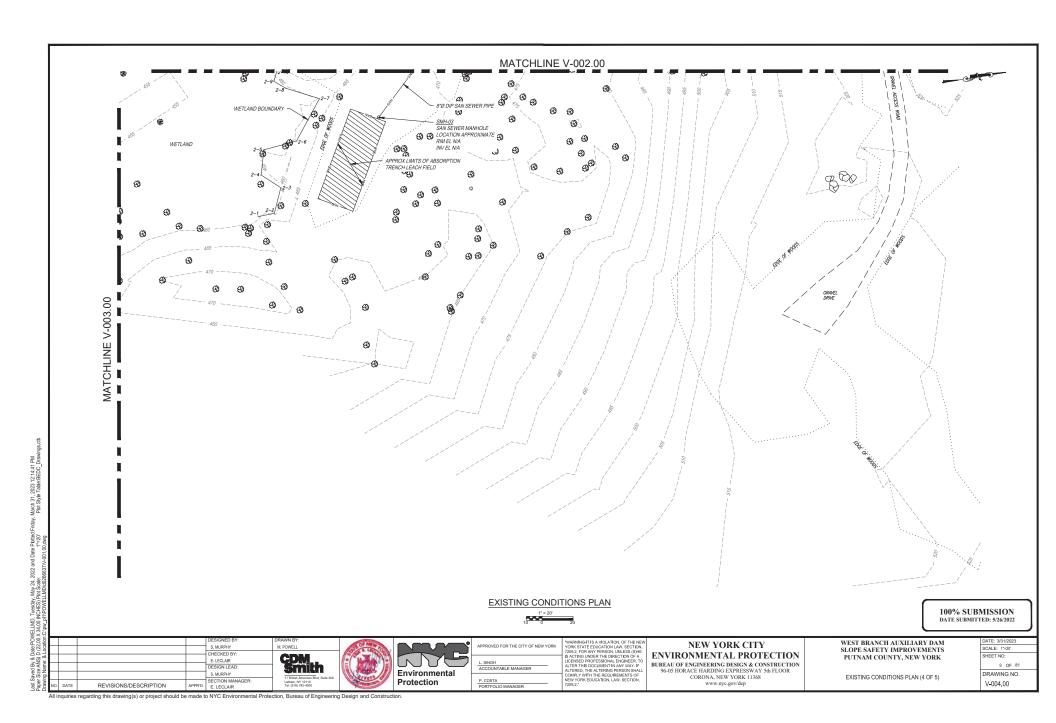
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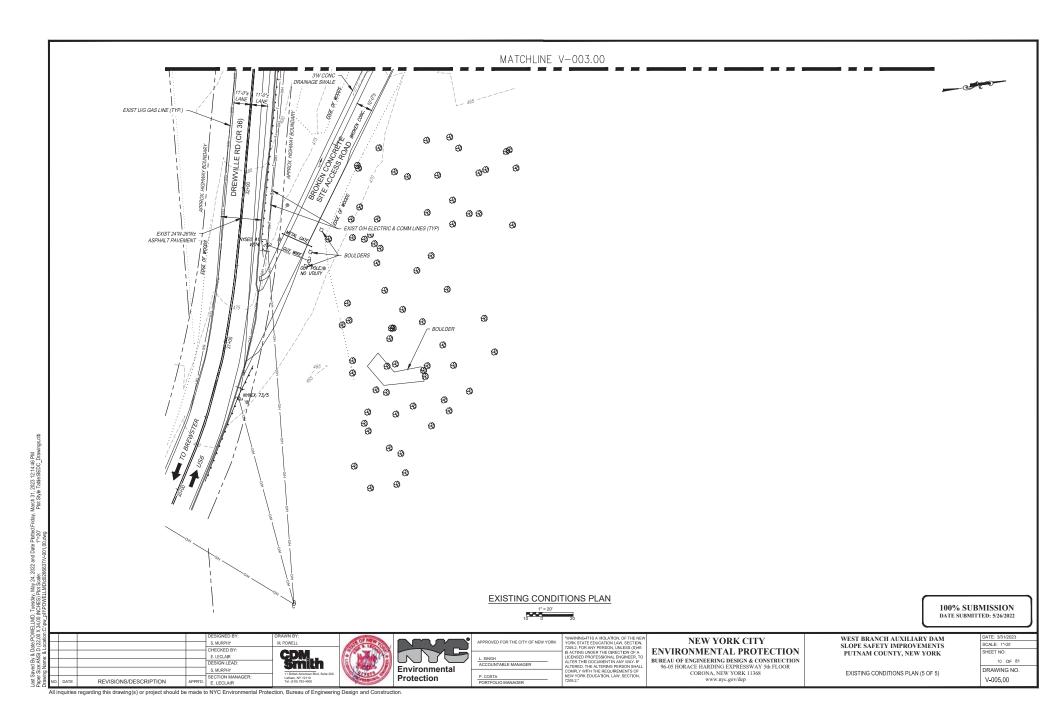


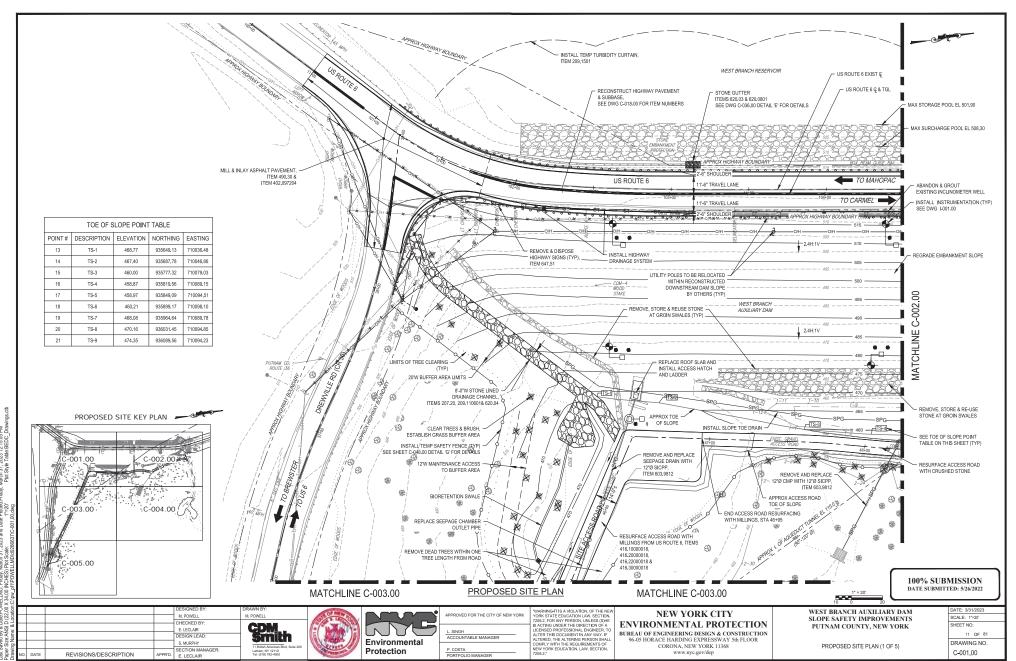


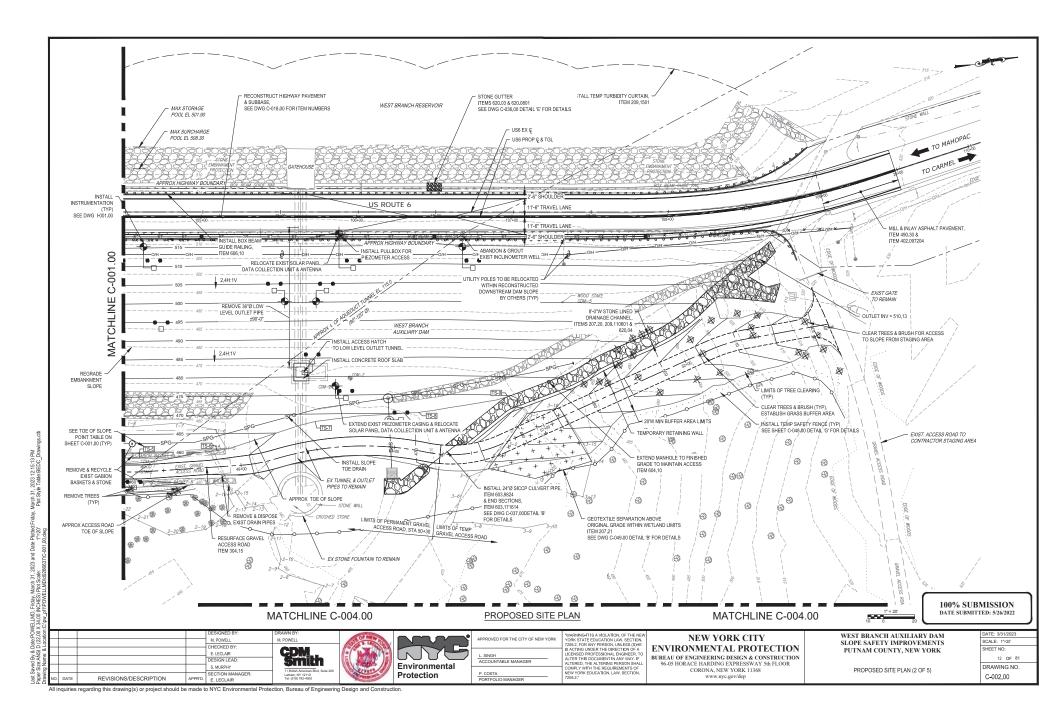


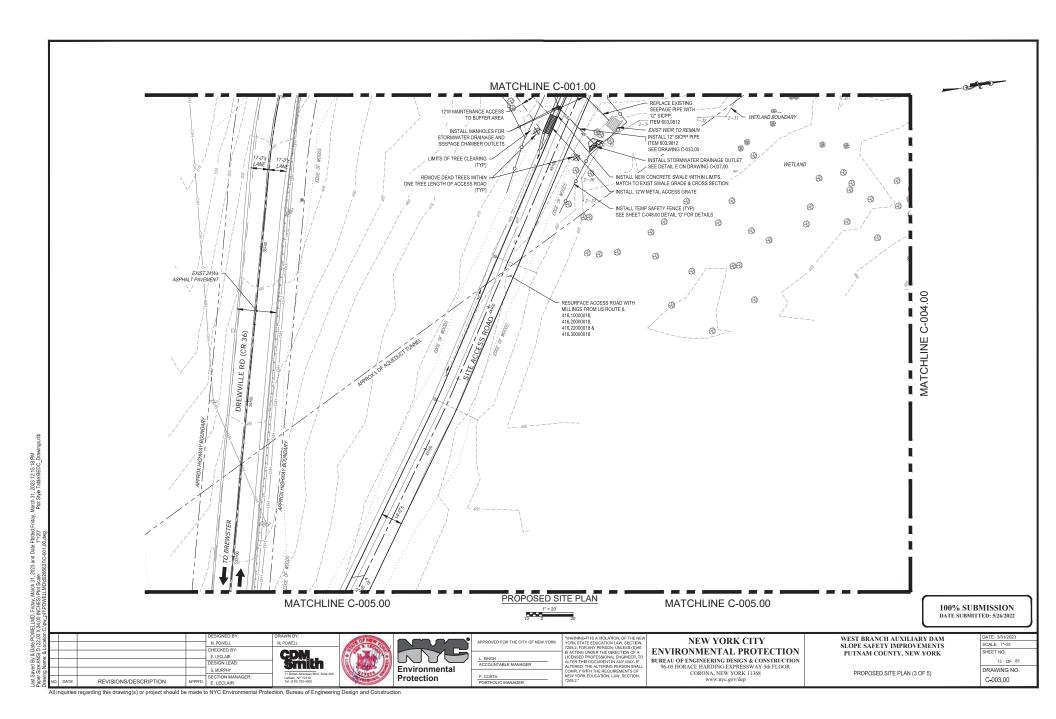


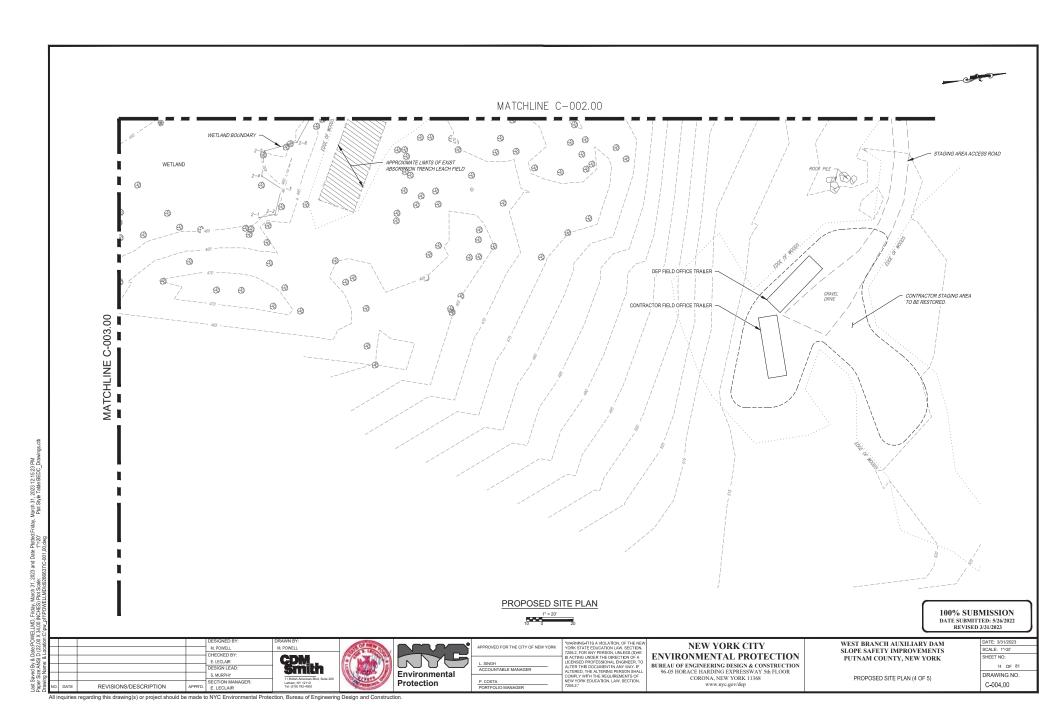




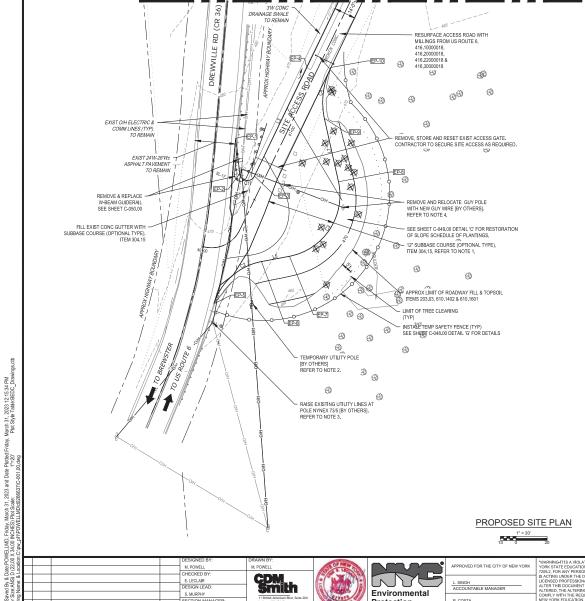








MATCHLINE C-003.00



NOTE:

- CONTRACTOR SHALL RESTORE SITE ENTRANCE AT THE COMPLETION OF WORK BY REMOVING 6" OF SUBBASE COURSE AND REPLACING WITH 6" TOPSOIL & SEED, ITEMS 203.02, 610.1402 & 610.1601 SEE DWG C-049.00 DETAILS 'C' & 'D'
- 2. A TEMPORARY UTILITY POLE SHALL BE INSTALLED BY NYSEG TO RAISE THE NEUTRAL WIRE TO HIGHEST PRACTICAL EXTENT TO OBTAIN INCREASED VERTICAL CLEARANCE AT ENTANCE,
- 3. OVERHEAD UTILITIES ON POLE NYNEX 73/5 [DIRECTLY EAST OF THE DREWVILLE RD CONSTRUCTION ENTRANCE] TO BE RASIED TO HIGHEST PRACTICAL EXTENT TO OBTAIN INCREASED VERTICAL CLEARANCE AT ENTRANCE.
- 4. GUY POLE SHALL BE RELOCATED BY NYSEG, OUTSIDE OF THE WIDENED CONSTRUCTION ENTRANCE,

EDGE OF PAVEMENT LINE & CURVE TABLE			
ID#	BEARING / DELTA	RADIUS	LENGTH
C1	148°03'51"	5.00'	12.92'
L1	N87°06′09"W		22.84'
C4	037"28'08"	50,00"	32,70'
L7	S86°46'53"W		41.87'
C3	091°48'47"	40,00'	64.10"
L5	N01°24'44"W		18.34'
C2	061°41'03"	40.00'	43.06'
L3	\$54°53'28"E		77,52

EDGE OF PAVEMENT POINT TABLE				
POINT#	DESCRIPTION	NORTHING	EASTING	
3	EP-1	935329.09	710524.03	
4	EP-2	935327,94	710546.84	
5	EP-3	935337.04	710549.95	
6	EP-4	935381.62	710486.54	
7	EP-5	935297.87	710626.91	
8	EP-6	935332,56	710605.02	
9	EP-7	935350,89	710604,57	
10	EP-8	935389.84	710562.33	
11	EP-9	935387,48	710520,53	
12	EP-10	935396.49	710488.97	

100% SUBMISSION DATE SUBMITTED: 5/26/2022

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ď	APPROVED FOR THE CITY OF NEW YORK
	L. SINGH ACCOUNTABLE MANAGER
	P. COSTA PORTFOLIO MANAGER

PROPOSED SITE PLAN

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NEW YORK CITY ENVIRONMENTAL PROTECTION

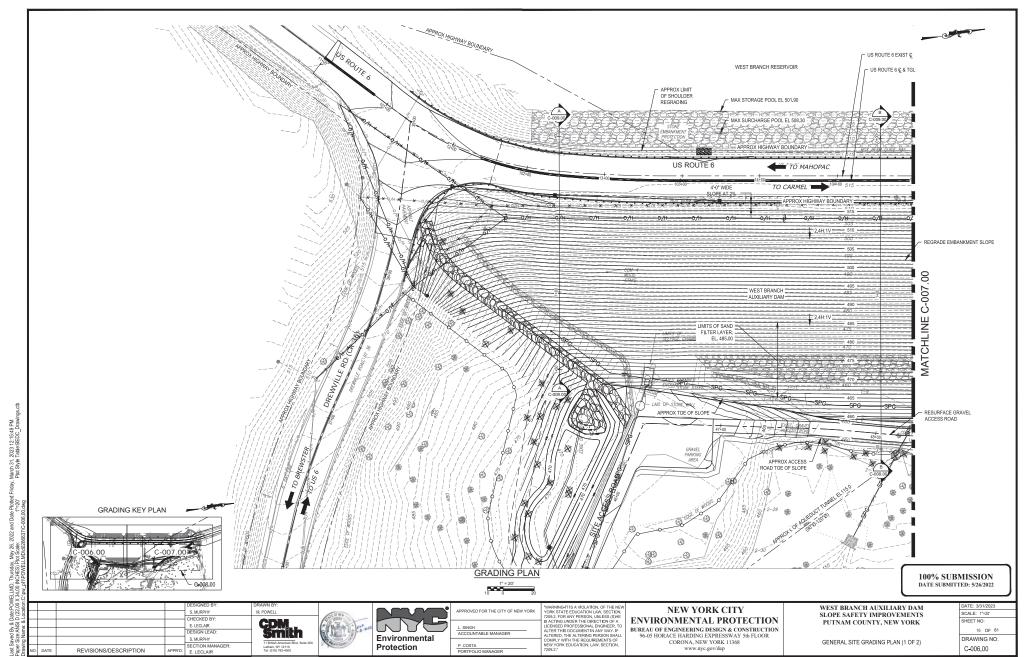
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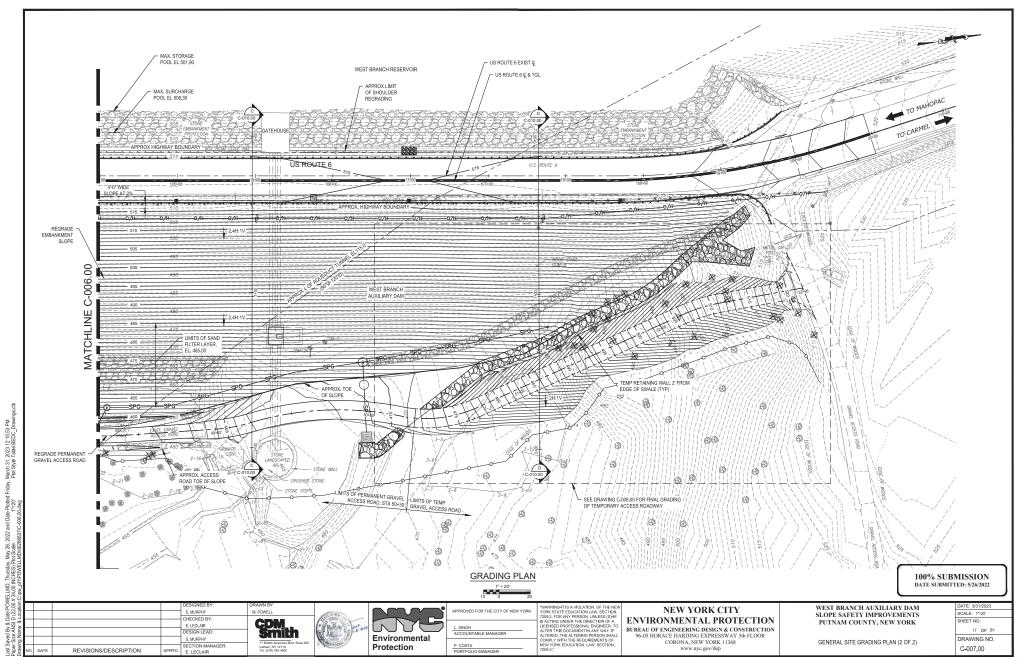
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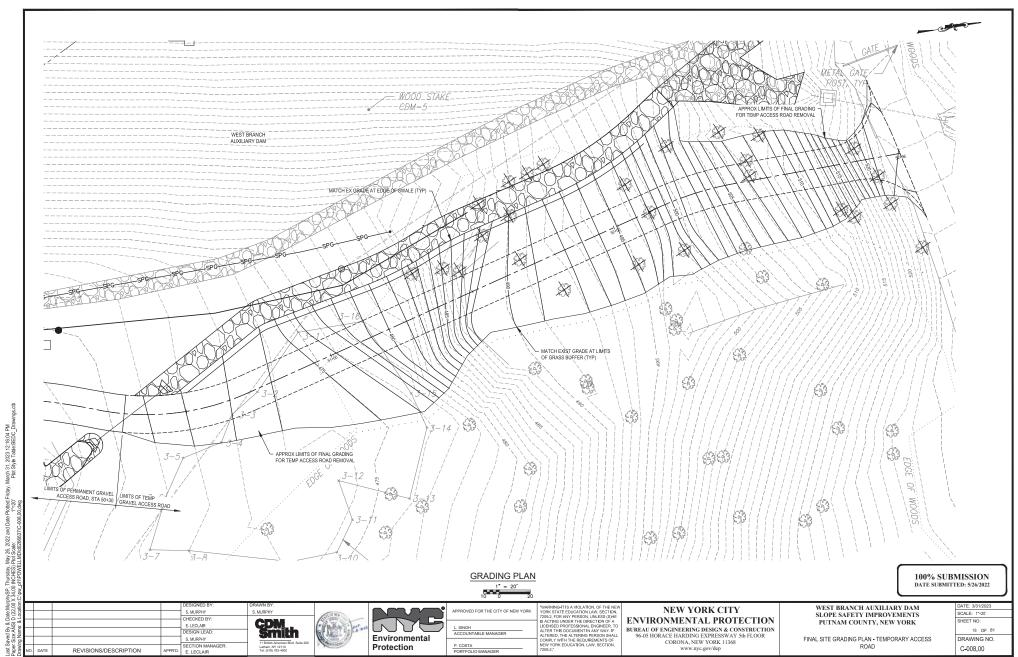
PROPOSED SITE PLAN (5 OF 5)

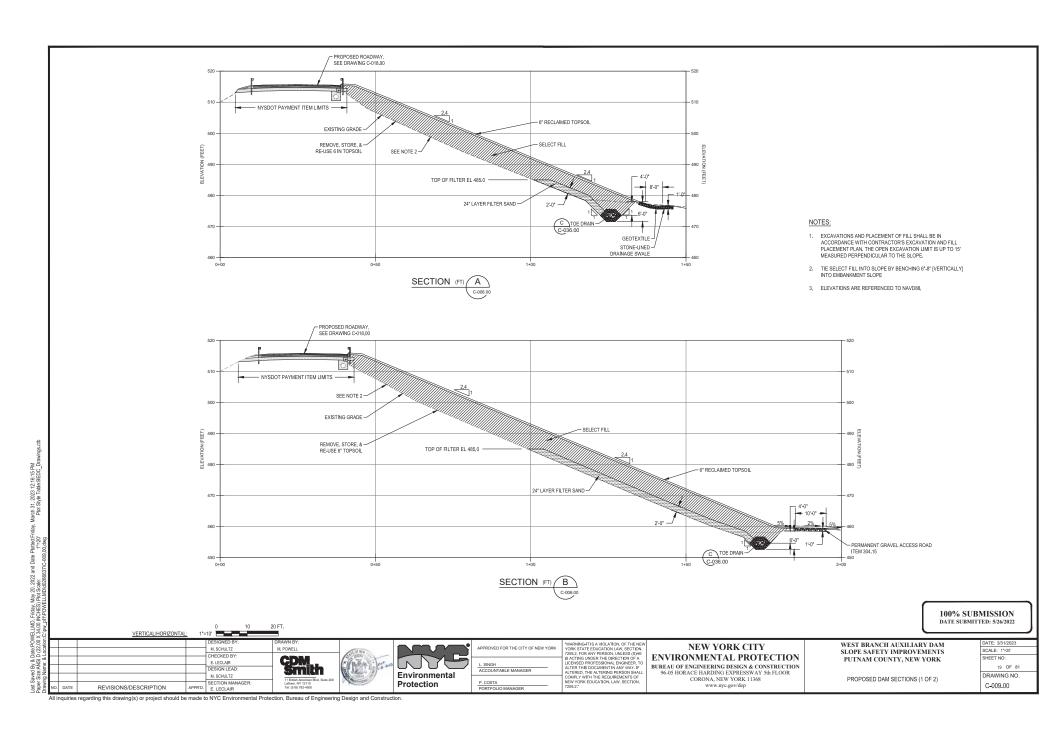
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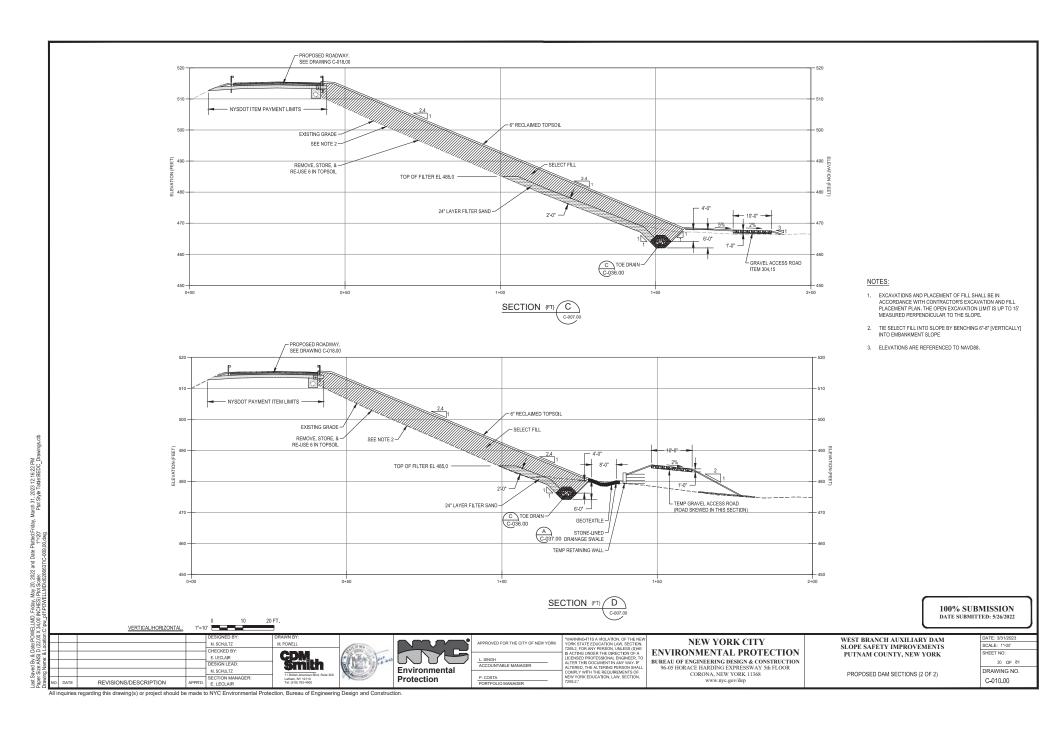
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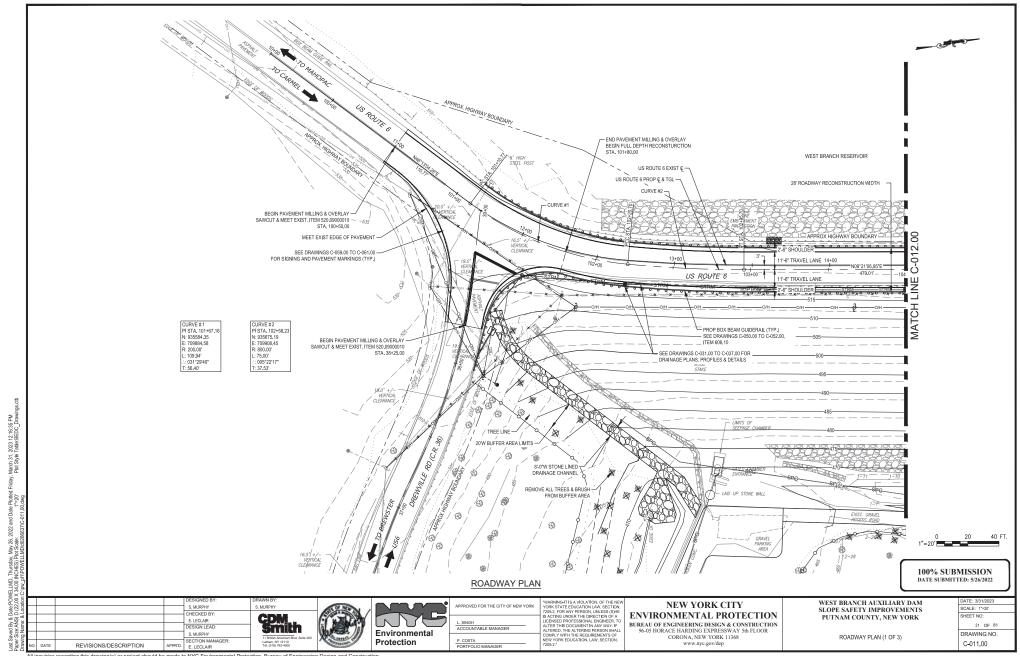


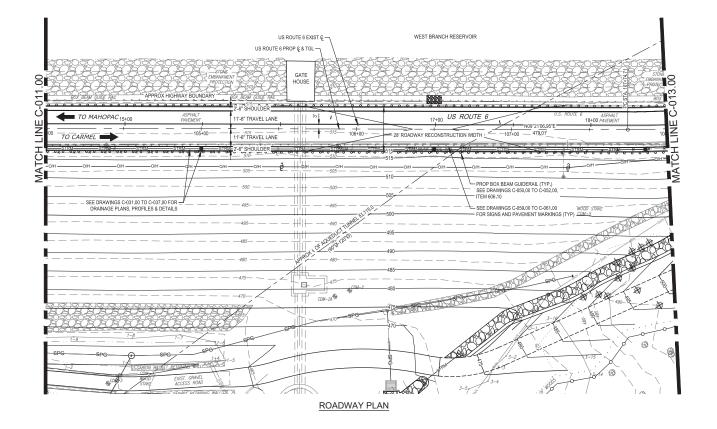












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100% SUBMISSION DATE SUBMITTED: 5/26/2022

Е				DESIGNED BY: S. MURPHY	DRAWN BY: S. MURPHY
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BUREAU OF ENGINEERING DESIGN & CONSTRUCTION 96-05 HORACE HARDING EXPRESSWAY 5th FLOOR CORONA, NEW YORK 11368 www.nyc.gov/dep WEST BRANCH AUXILIARY DAM SLOPE SAFETY IMPROVEMENTS PUTNAM COUNTY, NEW YORK

ROADWAY PLAN (2 OF 3)

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ROADWAY PLAN (3 OF 3)

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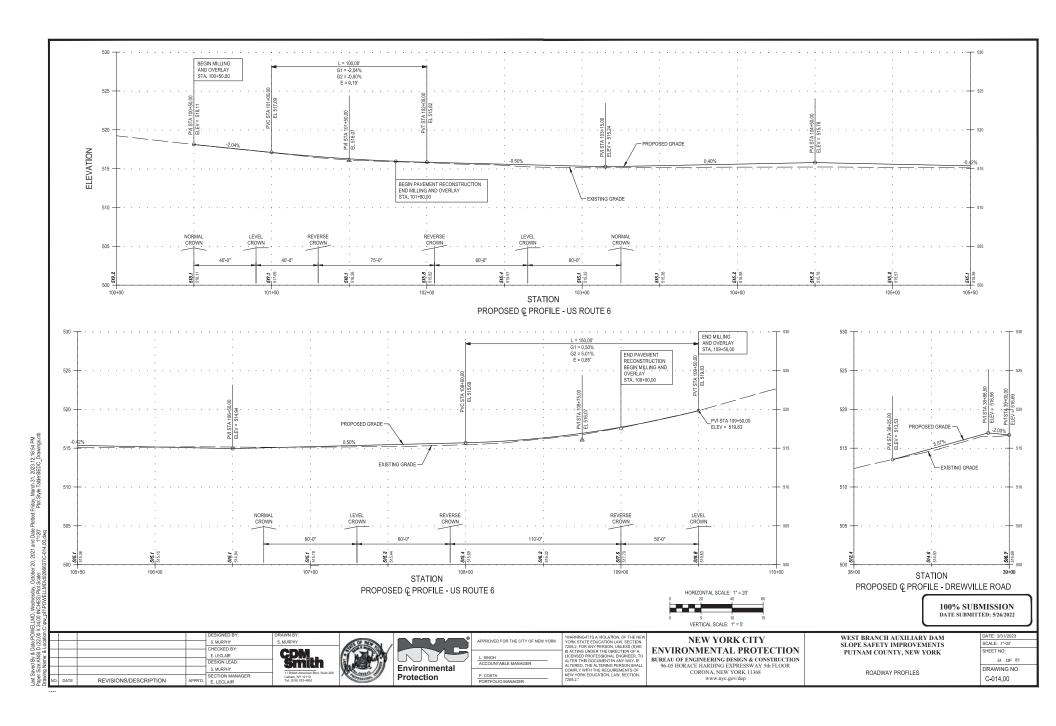
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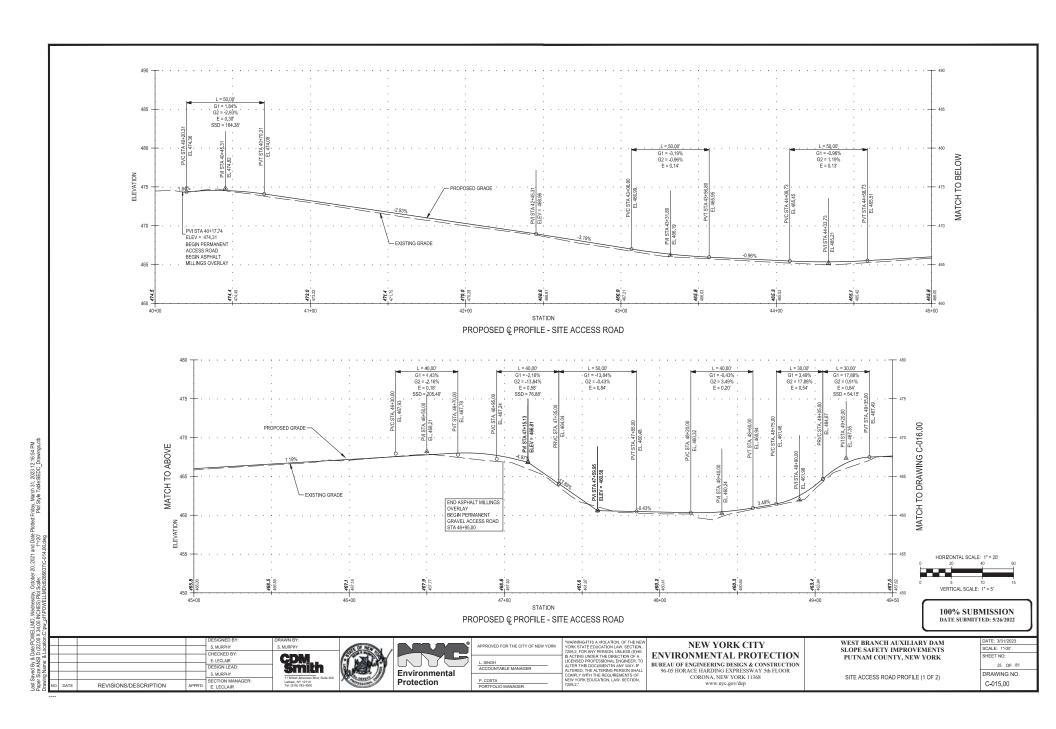
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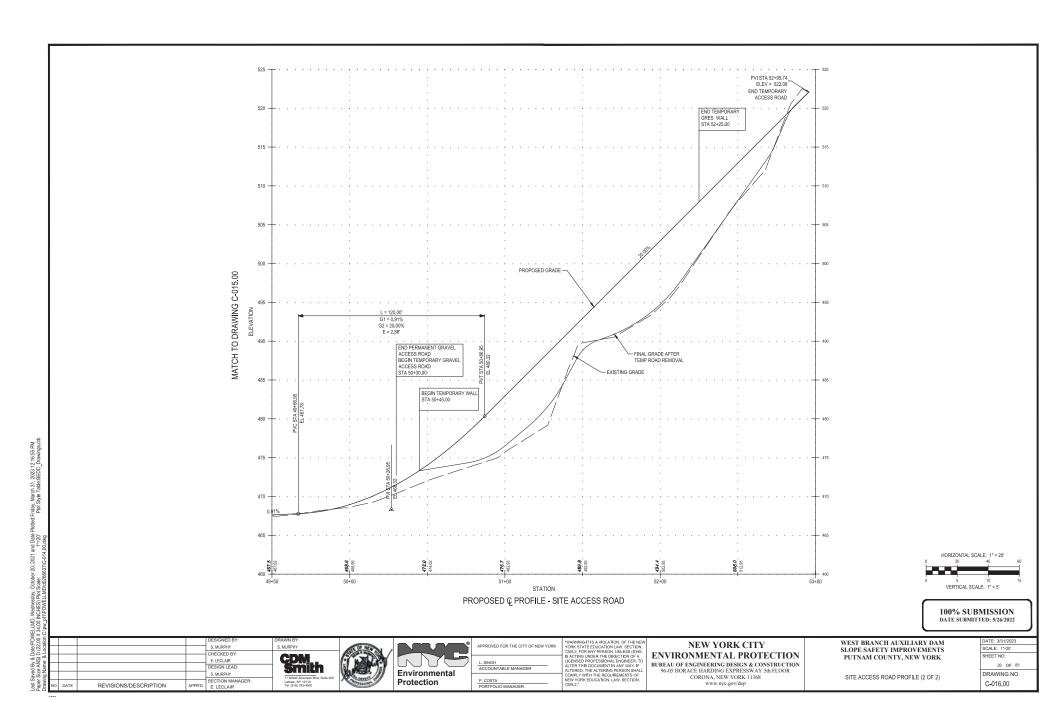
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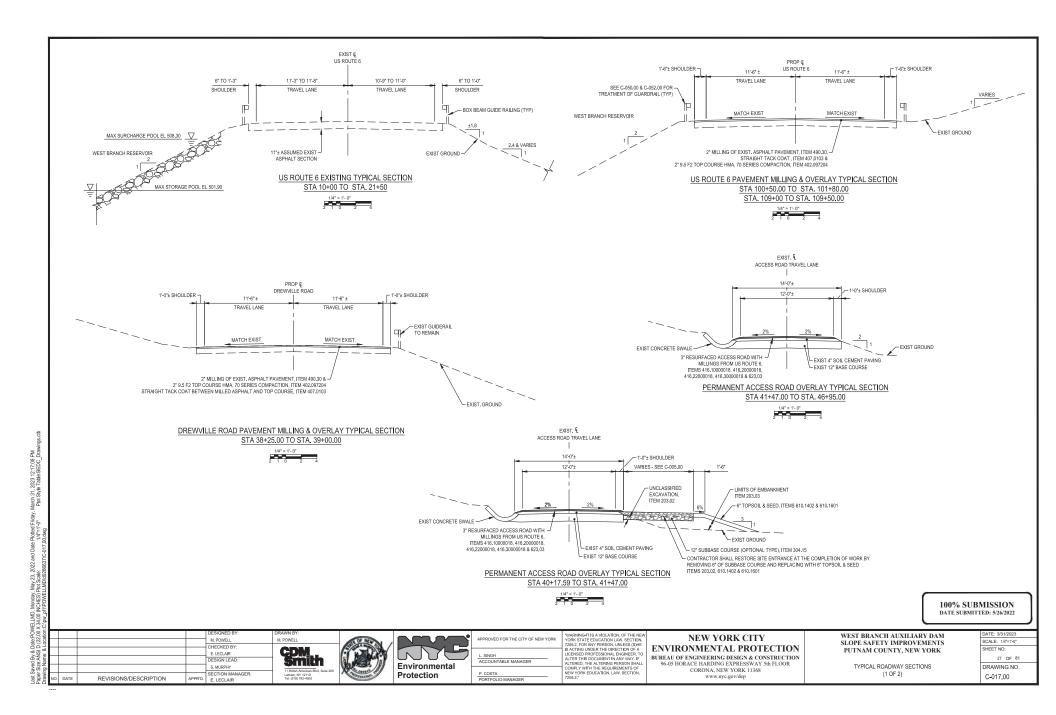
APPR'D. E. LECLAIR

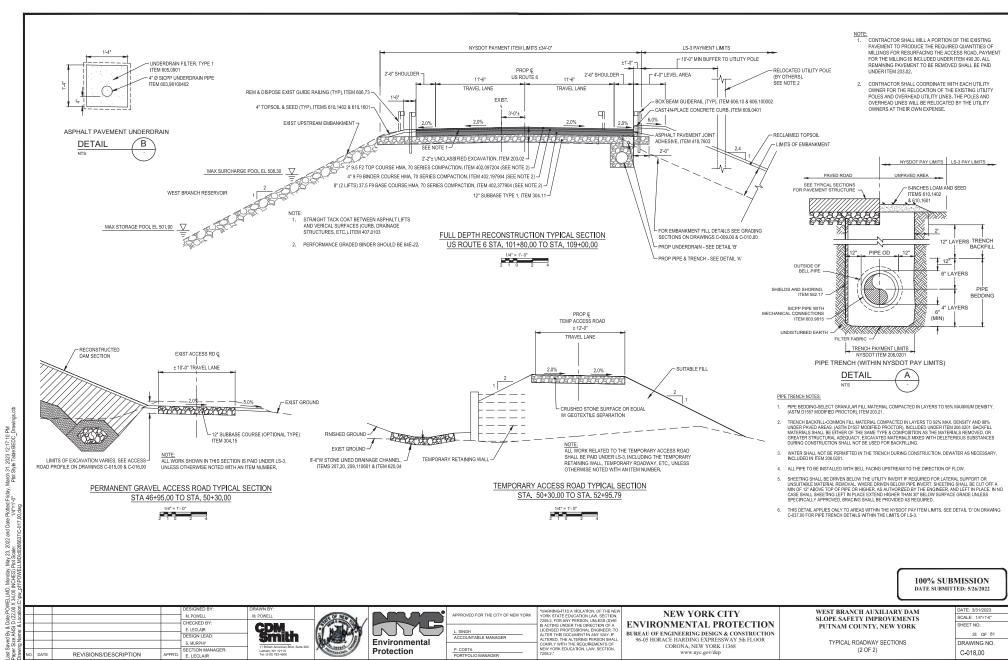
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Drawing	NO.	DATE	REVISIONS/DESCRIPTION	APPR'D.	SECTION MANAGER: E. LECLAIR	Latham, NY 12110 Tel: (518) 782-4500	•





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BUREAU OF ENGINEERING DESIGN & CONSTRUCTION 96-05 HORACE HARDING EXPRESSWAY 5th FLOOR CORONA, NEW YORK 11368

WEST BRANCH AUXILIARY DAM SLOPE SAFETY IMPROVEMENTS PUTNAM COUNTY, NEW YORK

TYPICAL ROADWAY SECTIONS

DATE: 3/31/2023
SCALE: 1/4"=1'-0"
SHEET NO:
28 OF 81
DRAWING NO.
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- THE CONTRACTOR SHALL MAINTAIN TRAFFIC THROUGHOUT THE LENGTH AND DURATION OF THE CONTRACT IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 919 OF THE NEW YORK STATE STANDARD SPECIFICATIONS. THE NATIONAL MANULA ON UNFORM THAFFIC CONTROL OF LOVICES (INJUTCIO) AND IN'S SUPPLEMENT, AND THE BASIC WORK ZONE TRAFFIC CONTROL DETAILS IN THE PLANS OR AS ORDERED BY ENGINEER (AOBE)
- FOR TYPICAL APPLICATIONS OF TRAFFIC CONTROL DEVICES IN CONSTRUCTION AREAS NOT SPECIFIED ON THE PLANS, THE PROVISIONS OF PART 6 OF THE NATIONAL MUTCO AND NYS SUPPLEMENT SHALL APPLY. THE STANDARDS OF APPLICATION NOTED THEREIN AND ON THE PLANS ARE TO BE CONSIDERED MINIMUM. STANDARDS WHERE OPTIONS EXIST FOR SIGN SHAPE THE DIAMOND SHAPE SHALL BE USED.
- FLAGGERS MILIST RE ARLE TO COMMUNICATE WITH EACH OTHER IN THE SAME LANGUAGE AND MUST BE ABLE TO UNDERSTAND AND TAKE INSTRUCTIONS/DIRECTIONS FROM ENGINEER OR INSPECTOR

- THE CONTRACTOR SHALL SCHEDULE WORK SO THAT ALL TRAVEL LANES IN EACH DIRECTION ARE OPEN WHEN THE CONTRACTOR'S OPERATIONS ARE CLOSED DOWN OR SUBSTANTIALLY CLOSED DOWN THE MINIMUM WIDTH OF A TRAVELED LANE SHALL BE 10 FEET UNLESS OTHERWISE SHOWN ON THE PLANS
- THE CONTRACTOR SHALL MAINTAIN TRAFFIC AND SHALL PROVIDE FLAGGERS AS SHOWN ON THE PLANS OR AGBE TO CONTROL TRAFFIC MOVEMENT AT THE SITE OF WORK OPERATIONS REQUIRING TEMPORAR CLOSING OF PORTIONS OF THE TRAVELED WAY.
- THE CONTRACTOR SHALL PERFORM ALL ROADWAY RECONSTRUCTION DUBING NIGHTTIME WORK HOURS OF 800 PM. TO 800 AM. CONTRACTOR SHALL FULLY OPEN THE ROADWAY TO UNRESTRICTED TWO-MAY TRAFFIC AT THE END OF EACH WORK SHIFT. NO LANE CLOSURES ARE PERMITTED FROM 800 AM. TO 800 P.M, UNLESS APPROVED IN ADVANCE BY NYCDEP AND NYSDOT.
- THE OWNER AND/OR NYCDEP RESERVES THE RIGHT TO PRECLUDE LANE OR SHOULDER OLDSLIRES DURING PERIODS OF INCLEMENT WEATHER, WET OR ICY PAVEMENT, REDUCED VISIBILITY, TRAFFIC ACCIDENTS OF OTHER EMERGENCIES
- THE OWNIER AND/OR NYCDEP MAY ALTER ANY LANE OR SHOULDER CLOSURES SHOULD TRAFFIC CONDITIONS OR OTHER UNFORESEEN CIRCUMSTANCES ARISE WHICH WOULD ADVERSELY AFFECT TFLOW.
- THE CONTRACTOR IS ALERTED TO THE FACT THAT INCIDENT MANAGEMENT OR TRAFFIC CONDITIONS MIGHT FORCE HIS/HER CONSTRUCTION OPERATION TO STOP, EVEN DURING TIME WHERE SUCH OPERATION WOULD NORMALLY BE PERMITTED.
- THE CONTRACTOR SHALL HAVE NO CLAIM AGAINST NYCHER OR ANY OTHER MUNICIPAL ENTITY FOR ANY DELAYS OR EXTRA COSTS INCURRED IN COMPLYING WITH THESE RESTRICTIONS
- LANE OR SHOULDER CLOSURES THAT WILL BE HIGHLY DISRUPTIVE TO TRAFFIC REQUIRE A ONE-WEEK ADVANCE ADVERTISMO THROUGH MIS (VARIABLE MESSAGE SIGNS) TO FOREWARN LOCAL AND REGULAR HIGHWAY USERS OF THE EXPECTED DELAYS.
- THE NYSDOT REGION 8 TRAFFIC MANAGEMENT CENTER MUST BE NOTIFIED AT: (914) 742-6100
 - 1) AT LEAST TWO DAYS BEFORE SCHEDULED LANE OR SHOULDER CLOSURES AND IF THE SCHEDULE IS CANCELED OR DELAYED
 - 2) EACH OCCURENCE WHEN A LANE OR SHOULDER CLOSURE IS SETUP (BY TELEPHONE ONLY FROM
 - EACH OCCURENCE WHEN A LANE OR SHOULDER CLOSURE IS REMOVED AND NORMAL HIGHWAY OPERATION RESUMES (BY TELEPHONE ONLY FROM THE FIELD SITE.)

WORK RESTRICTIONS FOR HOLIDAYS AND OTHER EVENTS

THE CONTRACTOR WILL NOT BE ALLOWED TO PERFORM ANY WORK DISRUPTIVE TO TRAFFIC, INCLUDING. BUT NOT LIMITED TO LANE OR SHOULDER OLD SURES ON THE FOLLOWING HOLDAYS: NEW YEAR'S DAY BUT NOT UMBED TO JANE ON SHOULDER CLOSURES ON THE PLOCUMEN SHOULDATS. NEW TEARS DAY MEMORRAL DAY, INDEPENDENCE DAY, LABOR DAY, THANKSGIVING, CHRISTINS DAY AND THE RELIGIOUS HOLIDAYS LISTED IN SPECIFICATION SECTION OF 14 00 - WORK RESTRICTIONS, CONSTRUCTION ACTIVITIES THAT WILL RESULT IN TEMPORARY LOWESHOULDER CLOSURES SHALL BE SUSPENDED TO MINIMIZE TRAVEL DELAYS ASSOCIATED WITH ROAD WORK FOR THESE HOLIDAYS AS FOLLOWS:

HOLIDAY	FALLS ON	TEMPORARY LANE CLOSURES ARE NOT ALLOWED FROM
	SUNDAY OR MONDAY	6:00 AM FRIDAY BEFORE TO 6:00 AM TUESDAY AFTER
	TUESDAY	6:00 AM SATURDAY BEFORE TO 6:00 AM WEDNESDAY AFTER (STARTING AT 6:00 AM FRIDAY BEFORE TO 6:00 AM WEDNESDAY AFTER FOR CHRISTMAS DAY)
NEW YEAR'S DAY INDEPENDENCE DAY CHRISTMAS DAY	WEDNESDAY	6:00 AM TUESDAY BEFORE TO 6:00 AM THURSDAY AFTER (STARTING AT 6:00 AM SATURDAY BEFORE TO 6:00 AM THURSDAY AFTER FOR CHRISTMAS DAY)
	THURSDAY	6:00 AM THURSDAY TO 6:00 AM MONDAY AFTER (STARTING AT 6:00 AM WEDNESDAY BEFORE TO 6:00 AM MONDAY AFTER FOR CHRISTMAS DAY)
	FRIDAY OR SATURDAY	6:00 AM THURSDAY BEFORE TO 6:00 AM MONDAY AFTER
MEMORIAL DAY LABOR DAY	MONDAY	6:00 AM FRIDAY BEFORE TO 6:00 AM TUESDAY AFTER
THANKSGIVING DAY	THURSDAY	6:00 AM WEDNESDAY BEFORE TO 6:00 AM MONDAY AFTER
RELIGIOUS HOLIDAYS	N/A	4:00 PM DAY BEFORE TO 8:00 AM DAY AFTER

- WHEN TWO OR MORE WORK AREAS ARE AD JACENT, OVERLAP, OR ARE IN CLOSE PROXIMITY AS WHEN I'VO ON MORE WORK AREAS ARE ASSAURED, OVERLAY, OR ARE IN CLOSE FACADINI I AS DEFERMINED BY THE ENGINEER, THE CONTRACTOR SHALL ENSURE THERE IS NO CONFLICT IN SIGNING AND THAT LANE CONTINUITY IS MAINTAINED THROUGHOUT ALL WORK AREAS.
- THE CONTRACTOR SHALL COORDINATE ALL CONTRACT WORK WITH ANY UTILITY WORK, SUBCONTRACT WORK, PUBLIC MAINTENANCE OPERATIONS OR OTHER CONSTRUCTION ACTIVITIES IN THE AREA TO ENSURE THAT THERE ARE NO BASIC WORK ZONE TRAFFIC CONTROL CONFLICTS.
- OUTSIDE THE PERMANENT CLOSURE AREA ALL VEHICLES. EQUIPMENT, WORKERS, AND ACTIVITIES SHALL BE RESTRICTED TO ONE SIDE OF THE ROADWAY AT A TIME

CONES, DRUMS, BARRICADES AND MARKERS

- ALL CHANNELIZING/DELINEATION DEVICES ARE TO BE PLACED SO AS TO PROVIDE A MINIMUM OF 2 FEET CLEARANCE TO THE TRAVELED WAY UNLESS OTHERWISE SHOWN ON THE PLANS. THE CONTRACT MAKE CERTAIN THAT PLACEMENT OF CONES, DRUMS AND MARKERS OR BARRICADES SHALL NOT INTERFERE WITH SIGHT DISTANCE.
- 2. LONGITUDINAL SPACING SHALL BE 1 FOOT FOR EVERY 1 MPH OF THE SPEED LIMIT. BUT NOT MORE THAN 40 FEET, (IE: 30 MPH = 30 FOOT SPACING), REDUCED SPACING MAY BE REQUIRED AS SHOWN ON THE PLANS OR AOBE. INTERSECTIONS AND DRIVEWAYS SHALL BE CHANNELIZED AT 5 FOOT SPACING.
- A DRUM MOUNTED WITH A TYPE B PLASHING HIGH INTENSITY WARNING LIGHT SHALL BE PLACED ON ALL APPROACHES TO A BUMP OR DIE IN THE PAVEMENT (A PAVEMENT CONDITION CONSIDERED BY THE REGIRER TO BE SPICIENTLY ABRUP ENOUGH TO CAUSE CONSIDERABLE BOSOMFORT, CARSO THE SIGHT OF THE PROVED BY THE STATE OF THE PAVEMENT OF THE SPICE OF THE STATE ZONE TRAFFIC CONTROL.
- 4 PROVIDE A LATERAL BUFFER SPACE OF 1 FOOT BETWEEN THE WORK ZONE AND THE LINE OF DELINEATION.
- 5 FOR CLARITY THE BASIC WORK ZONE TRAFFIC CONTROL DRAWINGS MAY NOT SHOW ALL CHANNELIZING DEVICES, CHANNELIZING DEVICES SHALL BE PLACED FROM THE BEGINNING OF THE TAPER, AND CONTINUE THROUGH THE ACTIVITY AREA ADJACENT TO TRAFFIC.
- THE COST OF ANY DELINEATION AND GUIDING DEVICES (CONES, DRUMS, ETC.) SHALL BE INCLUDED IN THE PRICE FOR BID ITEM TRAFFIC CONTROL
- DRUMS ARE THE PREFERRED CHANNELIZING DEVICES TO BE USED DURING THE HOURS OF DARKNESS TYPE A LIGHTS SHALL BE REQUIRED ON THE FIRST TWO DRUMS AND ON THE FIRST TWO DRUMS AFTER EACH INTERSECTION. CONES AND VERTICLE PANELS MAY BE USED IN WELL LIT AREAS.
- 8. CONTRACTOR SHALL MAINTAIN LANE WIDTHS OF 10 FT OR GREATER AT ALL TIMES.

PRELIMINARY WORK

PRIOR TO THE START OF ANY WORK OPERATIONS, ALL RELATED WORK FOR PROPOSED WORK ZONE TRAFFIC CONTROL, AS DETERMINED BY THE ENGINEER, SHALL BE COMPLETE. THIS INCLUDES, BUT IS NOT LIMITED TO, ALL SIGNS, SIGNALS, PAVEMENT MARKINGS, BARRIERS, DELINEATION (CONES, DRUMS, ETC.), FLAGGERS, PAVEMENT MODIFICATIONS, AND ANY OTHER RELATED WORK

SIGNS

- THE CORRECT SEQUENCE AND SPACING OF APPROPRIATE SIGNS MUST BE MAINTAINED AT ALL TIMES IN ACCORDANCE WITH THE NATIONAL MUTCD AND NYS SUPPLEMENT, THE PROPOSAL, AND AS DIRECTED BY THE ENGINEER OR GOVERNING AGENCY
- COLORS USED FOR CONSTRUCTION SIGNING (INCLUDING TEMPORARY OR MODIFIED GUIDE SIGNS) SHALL BE BLACK LEGEND ON ORANGE BACKGROUND WITH THE FOLLOWING EXCEPTIONS: EMERGENCY SERVICE MARKERS, ROUTE MARKERS AND THEIR CORRESPONDING AUXILIARY SIGNS SHALL EMERGENCY SERVICE MARKERS, DOUTE MARKERS ON DETRICATION DE THE CORPERSPONDING AUXILIARY SIGNS SWINCH

 AREA THE CONTENT OF THE CONTENT ON THE CONTENT OF THE
- THE CONTRACTOR SHALL INSTALL GUIDE SIGN G20-1 AT THE LIMITS OF THE PROJECT AND ROAD WORK AHEAD' INITIAL WARNING SIGN W20-1 ON ALL SIDE ROADS (EXCEPT DEAD END STREETS) WHENEVER A CONSTRUCTION CONDITION EXISTS AT OR NEAR THE INTERSECTION, SIGN PLACEMENT SHALL BE IN ACCORDANCE WITH NATIONAL MUTCH AND MYS SUPPLEMENT. THESE SIGNS SHALL BE COVERED OR REMOVED WHEN THERE IS NO CONSTRUCTION CONDITION IN EFFECT.
- 4 DURING WINTER SHUTDOWN IF APPLICABLE EXISTING SIGNS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND/OR LOCATION. ALL INAPPROPRIATE CONSTRUCTION SIGNS SHALL BE REMOVED COVERED AOBE, AND THE ENTIRE HIGHWAY SYSTEM OPEN TO TRAFFIC.
- W6-1 'BUMP' SIGNS SHALL BE PLACED ON ALL APPROACHES 200 FEET AHEAD OF A BUMP OR DIP IN AVEMENT CAUSED BY CONSTRUCTION OPERATIONS SUCH AS ROAD PLATES, ETC. NUMEROUS BUMPS O DIPS SHALL WARRANT THE USE OF W8-8 'ROUGH ROAD' SIGNS INSTEAD OF W8-1 'BUMP' SIGNS. THE COST OF THE SIGNS SHALL BE INCLUDED IN THE PRICE BID FOR ITEM TRAFFIC CONTROL
- 6 THE CONTRACTOR SHALL TAKE ALL ACTION AS DIRECTED BY THE ENGINEER OR GOVERNING AGENCY TO ELIMINATE BUMPS. ONLY WHEN IT IS NOT POSSIBLE OR FEASIBLE, IN THE OPINION OF THE ENGINEER, TO ELIMINATE A BUMP SHALL IT BE ALLOWED TO REMAIN.
- IF ADVANCE SIGNING OBSTRUCTS THE VISIBILITY OF THE FLAGGER OR CONFLICTS WITH DRIVEWAYS OR SIDEROADS, SIGNS SHOULD BE MOVED UPSTREAM AS DIRECTED BY THE ENGINEER OR GOVERNING
- 8. THE CONTRACTOR SHALL TRIM ANY FOLIAGE OBSTRUCTING THE VISIBILITY OF SIGNS, WHETHER PERMANENT OR TEMPORARY, NEEDED FOR THE WORK ZONE TRAFFIC CONTROL AS DETERMINED BY THE ENGINEER, THE COST SHALL BE INCLUDED IN THE PRICE FOR BID ITEM 619.01 - BASIC WORK ZONE TRAFFIC
- ANY CONSTRUCTION SIGNS DEEMED NECESSARY BY THE ENGINEER AND NOT ON THE PLANS SHALL BE INCLUDED IN THE PRICE FOR BID ITEM TRAFFIC CONTROL.

- 10. ALL SIGNS NECESSARY FOR THE BASIC WORK ZONE TRAFFIC CONTROL (INCLUDING RELOCATION AND/OF MODIFICATION AND/OR RESTORATION OF EXISTING SIGN PANELS) AS NOTED IN THE PLANS. STA SPECIFICATIONS, NATIONAL MUTCD AND NYS SUPPLEMENT, OR AGBE SHALL BE INCLUDED IN THE PRICE
- ANY DAMAGE TO EXISTING SIGNS IS TO BE DOCUMENTED AND ANY SUBSEQUENT DAMAGE REMEDIED. THE CONTRACTOR SHALL BE LIABLE FOR ANY DAMAGE DOES, DUE TO THE CONTRACTORS METHODS. TO TEMPORARILY REMOVE, RELOCATE OR COVER SIGN PANELS OR SIGN TEXT, REFER TO SECTION 945-5.09 "COVERING SIGN PANELS", IN THE NYSDOT STANDARD SPECIFICATIONS,
- 12. ALL SIGNS SHALL BE MOUNTED AT A HEIGHT PER THE NATIONAL MUTCO AND NYS SUPPLEMENT

PUBLIC INGRESS AND EGRESS

- THE CONTRACTOR SHALL NOTIFY PROPERTY OWNERS AT LEAST ONE DAY IN ADVANCE OF CLOSING DRIVEWAYS AND SHALL PROVIDE PROPERTY OWNERS WITH PROPER ACCESS ADBE TO HEIR DRIVEWAYS AND SHALL IMANTAIN THEM THROUGH ALL WORK AREAS AND SHALL IDELINEATE THEM BY MEANS OF SIGNS. CONES, AND/OR DRUMS AGRE. THE COSTS FOR SIGNS AND ANY OTHER DELINEATION AND GUIDING DEVICES (CONES, DRUMS, ETC.) SHALL BE INCLUDED IN THE PRICE FOR BID ITEM TRAFFIC CONTROL
- WHERE DIRECT ACCESS TO DRIVEWAYS IS NOT POSSIBLE DUE TO NECESSARY CONSTRUCTION. WHERE DIRECT ACCESS TO DRIVEWAYS IS NOT POSSIBLE DUE TO RESULT OF ACCESS AND SUBMIT SUCH PLANS TO THE ENGINEER FOR APPROVAL. OCCUPANT SHALL HAVE 24 HOURS NOTICE OF ANY CHANGES. COST OF THIS WORK SHALL BE INCLUDED IN THE PRICE FOR BID ITEM TRAFFIC CONTROL.
- SIGNS DENOTING COMMERCAL. ESTABLISHMENTS SHALL BE PROVIDED AND PLACED NEXT TO COMMERCAL. DRIVEWAYS, SIGNS SHALL BE AS SHOWN IN THE PLANS AND/OR AS APPROVED BY THE ENGINEER. THE COST FOR THESE SIGNS SHALL BE INCLUDED IN THE PRICE FOR BID ITEM TRAFFIC CONTROL. SIGNS SHALL NOT BE PLACED IN A LOCATION THAT OBSTRUCTS SIGHT DISTANCES.
- 4 WHEN A SIDE ROAD OR DRIVEWAY INTERSECTS THE HIGHWAY WITHIN THE TEMPORARY TRAFFIC CONTROL ZONE, ADDITIONAL TRAFFIC CONTROL DEVICES SHALL BE ERECTED AND ELAGGERS POSTED A APPROPRIATE LOCATIONS OR AGRE. ALL COSTS INVOLVED SHALL BE INCLUDED IN THE PRICE FOR BID ITEM TRAFFIC CONTROL

CONSTRUCTION INGRESS AND EGRESS

- 1. VEHICLES, MATERIALS, AND/OR EQUIPMENT, INCLUDING OUT OF SERVICE SIGNS, SHALL NOT BE PARKED OR STORED WITHIN 30 FEET OF A ROADWAY USED BY THE GENERAL PUBLIC OR ANY OTHER AREAS DEEMED. HAZARDOUS BY THE ENGINEER.
- 2. THE CONTRACTOR SHALL KEEP TO A MINIMUM MOVEMENT OF CONSTRUCTION VEHICLES AND FOLLOWERT IN AND OUT OF DESIGNATED TRAVEL LANES.

PAVEMENT MARKINGS

- PRIOR TO THE BEGINNING OF ANY WORK, THE CONTRACTOR SHALL INVENTORY ALL EXISTING PAVEMENT MARKINGS SO THAT THE PAVEMENT MARKINGS CAN BE LAID OUT AND REPLACED IN KIND BY THE CONTRACTOR UPON COMPLETION OF WORK. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR TRAFFIC CONTROL
- 2. WHERE PAVEMENT MARKINGS ARE REMOVED THEY SHALL BE REMOVED BY A METHOD, SUBJECT TO APPROVAL BY THE ENGINEER, WHICH WILL FULLY REMOVE THE MARKINGS AND CAUSE NO SIGNIFICANT DAMAGE TO THE PAVEMENT, PAVEMENT MARKINGS WHICH ARE COVERED SHALL BE COVERED UTILIZING AN DAMAGE TO THE PAYEMENT MARKING COVERING TAPE, SPECIFICALLY DESIGNED FOR THE PURPOSE O COVERING PAYEMENT MARKINGS, AND APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL PROVIDE PAVEMENT MARKINGS AT ALL TIMES ON ALL PAVEMENT, WHETHER EXISTING, TEMPORARY OR NEW, UNTIL PERMANENT MARKINGS ARE INSTALLED OR RESTORED. THIS SHALL INCLUDE AT ALL APPROPRIATE LOCATIONS, EDGE LINES, LANE LINES (SOLID OR BROKEN), CHANNELIZING LINES, DOTTED LINES, PLUS ANY MARKINGS ORDERED BY THE ENGINEER. ALL MARKINGS SHALL BI APPLIED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND THE NATIONAL MUTCO AND NYS. SUPPLEMENT AND SHALL INDICATE ACTUAL CONDITIONS AT ALL TIMES

FLAGGERS

- ALL FLAGGERS MUST BE ADEQUATELY TRAINED IN FLAGGING OPERATIONS BY NYSDOT RECOGNIZED TRAINING PROGRAMS. THE CONTRACTOR SHALL SUBMIT A LIST OF CERTIFIED FLAGGERS TO THE ENGINEER FOR REVIEW AND APPROVAL IN ADVANCE OF ANY FLAGGING OPERATIONS.
- 2 WHEN FLAGGERS ARE BEING LISED FOR TRAFFIC CONTROL PURPOSES. FLAGGER SIGNS W20-7A SHALL BE PLACED AS SHOWN IN THE PROPOSAL OR AGRE ON ALL APPROACHES TO THE AREAS BEING FLAGGED. THE COST OF FLAGGER SIGNS SHALL BE INCLUDED IN THE PRICE BID FOR ITEM TRAFFIC CONTROL. FLAGGER SIGNS SHALL NOT BE USED FOR BRIEF PERIODS OF INCIDENTAL FLAGGING. FLAGGER SIGNS SHALL NOT BE
- STOP/SLOW PADDLES SHALL BE USED FOR FLAGGING AND SHALL CONFORM TO THE REQUIREMENTS IN THE NATIONAL MUTCO AND NYS SUPPLEMENT BUT SHALL BE A MINIMUM OF 24 INCH, THE COST OF THESE PADDLES AND ALL FLAGGERS SHALL BE INCLUDED IN THE PRICE FOR BID ITEM TRAFFIC CONTROL.
- 4 FLAGGERS SHALL NOT POSITION THEMSELVES DIRECTLY IN THE PATH OF ONCOMING TRAFFIC. THE LAGGER SHOULD STAND EITHER ON THE SHOULDER ADJACENT TO THE TRAFFIC BEING CONTROLLED OR IN THE CLOSEDICHANNELIZED LANE. AT ALL TIMES, THE CONTRACTOR SHALL PROVIDE FLAGGERS WITH A CLEAR ESCAPE PATH, FREE OF PARKED VEHICLES, EQUIPMENT OR OTHER OBSTACLES.
- 5. THE CONTRACTOR SHALL PROVIDE FLAGGERS WHERE SIGHT DISTANCES ARE IMPAIRED BY THE OPERATION OR IN ANY OTHER SITUATION AGE.
- 6. FLAGGERS SHALL BE REQUIRED TO USE TWO-WAY RADIOS, WALKIE-TALKIES, OR OTHER FORMS OF ENHANCED COMMUNICATION WHEN ONE FLAGGER IS NOT VISIBLE TO THE OTHER OR IF THE ENGINEER DEEMS IT NECESSARY, ALL COSTS SHALL BE INCLUDED IN THE PRICE FOR BID ITEM TRAFFIC CONTROL
- 7 FLAGGERS SHALL LISE THE FREE HAND FOR EMPHASIS AS SHOWN IN THE NATIONAL MUTCO AND MYS SUPPLEMENT. EACH FLAGGER SHALL CONTROL NO MORE THAN ONE APPROACH OF TRAFFIC UNLESS THE APPROACHES PRESENT UNUSUALLY LOW SPEEDS AND/OR UNUSUALLY LOW VOLUMES, WITH ADEQUATE SIGHT DISTANCE FOR THE SAFE HANDLING OF TRAFFIC, AS DETERMINED BY THE ENGINEER

- THE ENGINEER SHALL DETERMINE THE NUMBER OF FLAGGERS NEEDED FOR EACH WORK ZONE, UNDER PERTAIN GEOMETRIC AND TRAFFIC SITUATIONS, MORE THAN ONE FLAGGER STATION MAY BE REQUIRED Certain (gome inican) trapho situations, more than one larger station may be required for each direction of trapho. Tat you may, unsupelly to myoquide amoider unsubly Low-speed short lang closings, where adequate sight distance is available for safe Handling of trapho. The use of one flagger may be sufficient in this situation, a position may have to be trans opposite the work to operate effectively.
- 9. FLAGGER STATIONS SHOULD BE VISIBLE FAR ENOUGH AHEAD TO PERMIT ALL VEHICLES TO STOP. THE FLAGGER SHOULD BE STATIONED FAR ENOUGH AHEAD OF THE WORK FORCE TO WARN THEM (FOR EXAMPLE WITH HORNS WHISTLES ETC.) OF APPROACHING DANGER SUCH AS VEHICLES OUT OF CONTROL
- 10. WHEN A SIDE ROAD OR DRIVEWAY INTERSECTS THE HIGHWAY WITHIN THE TEMPORARY TRAFFIC CONTROL ZONE, ADDITIONAL TRAFFIC CONTROL DEVICES AND FLAGGERS SHALL BE PROVIDED.

NIGHTTIME OPERATIONS AND LIGHTING PLAN

1. THE CONTRACTOR IS TO SUBMIT A NIGHTTIME OPERATIONS AND LIGHTING PLAN TO THE ENGINEER FOR APPROVAL. THE PLAN SHALL BE UPDATED AS NECESSARY AND INCLUDE ALL DETAILS FOR TRAFFIC CONTROL AND LIGHTING PLAN AS IN ACCORDANCE WITH SECTION 619 OF THE NYSDOT STANDARD SPECIFICATIONS (US CUSTOMARY UNITS) DATED JANUARY 1, 2020 WITH CURRENT ADDITIONS AND MODIFICATIONS

PAVEMENT EDGE DROP-OFF

- THE CONTRACTOR SHALL SUBMIT ALTERNATE TRAFFIC CONTROL PLANS TO THE ENGINEER FOR APPROVAL AT LEAST 30 CALENDAR DAYS PRIOR TO PROPOSED WORK WHICH WILL OREATE A DROP-OFF OF OVER 24-INCHES WITHIN 10 FEET FROM THE EDGE OF THE TRAVELED WAY FOR DURATIONS LONGER THAN ONE
- 2 THE CONTRACTOR SHALL PROVIDE PAVEMENT EDGE DROP-OFF PROTECTION IN ACCORDANCE WITH THE TABLE BELOW. CHANNELIZING DEVICES USED TO MARK DROP-OFFS SHALL BE PLACED AS PRACTICABLE TO NOT REDUCE THE AVAILABLE TRAVEL LANE WIDTH AT THE ELEVATION OF THE OPEN TRAVEL LANE IN ORDER TO PROVIDE MAXIMUM TARGET VALUE AND VISIBILITY FOR MOTORISTS.
- A DROP-OFF OF GREATER THAN 244NCHES WITHIN 10 FEET FROM THE EDGE OF THE TRAVELED WAY TO REMAIN AT THE END OF A WORK SHIFT SHALL BE SEPARATED FROM TRAFFIC WITH TEMPORARY BARRIER FOR POSTED SPEED LIMITS OF 45 MIPH AND LESS, A DROP-OFF OF GREATER THAN 24-NCHES WITHIN 10 FEET FROM THE EDGE OF THE TRAVELED WAY THAT IS 100-FEET OR LESS IN LENGTH WILL BE ALLOWED WITH CHANNELIZING DEVICES CONSISTING OF DRUMS, EXTRA TALL CONES OR OVERSIZED VERTICAL PANELS ONLY AT A MAXIMUM SPACING OF 20 FEET FOR SHORT DURATIONS NOT TO EXCEED ONE WORK
- CONTRACTOR SHALL BEGIN WORK TO ELIMINATE UNRROTECTED DROP-OFFS CREATED BY CONTRACT WORK WITHIN 7 CALENDAR DAYS OF THE COMPLETION OF THE WORK CREATING THE DROP-OFF. WORK SHALL CONTROL IN A TIMELY MANNER UNTIL SUCH TIME AS THE UNPROTECTED DROP-OFF CONDITION IS
- 5. WHERE PAVEMENT EDGE LINES ARE NOT PROVIDED, CHANNELIZING DEVICES SHALL BE PRECEDED BY A "NO SHOULDER" W8-23 SIGN, REPEATED AT ALL INTERSECTIONS. WHERE PAVEMENT EDGE LINES ARE PROVIDED, CHANNELIZING DEVICES SHALL BE PRECEDED BY "SHOULDER DROP-OFF" W8-17 SIGNS, REPEATED AT ALL INTERSECTIONS.

PAVEMENT EDGE DROP-OFF PROTECTION TABLE						
DROP-OFF HEIGHT	DRUM / VERTICAL PANEL SPACING (FT)	TUBULAR MARKER SPACING (FT)	TALL CONE SPACING (FT)	SIGNS		
DROP-OFF	DROP-OFF AT OR WITHIN SHOULDER AREA					
WITHIN 4 FT.	FROM TRAVEL LANE					
2-6 IN	100	N/A	N/A	SHOULDER DROP-OFF		
6-24 IN	40	N/A	N/A	SHOULDER DROP-OFF		
MORE THAN	4 FT. FROM TRAVEL LAN	E				
2-6 IN	200	100	100	SHOULDER DROP-OFF		
6-24 IN	40	N/A	N/A	SHOULDER DROP-OFF		
DROP-OFF OUTSIDE OF SHOULDER EDGE						
SHOULDER V	WIDTH ≤ TO 4 FT.					
2-6 IN	100	N/A	N/A	SHOULDER DROP-OFF		
6-24 IN	40	N/A	N/A	SHOULDER DROP-OFF		
SHOULDER WIDTH > 4 FT.						
2-6 IN	200	100	100	SHOULDER DROP-OFF		
6-24 IN	100	40	40	SHOULDER DROP-OFF		

100% SUBMISSION DATE SUBMITTED: 5/26/2022

WORK AREA COORDINATION

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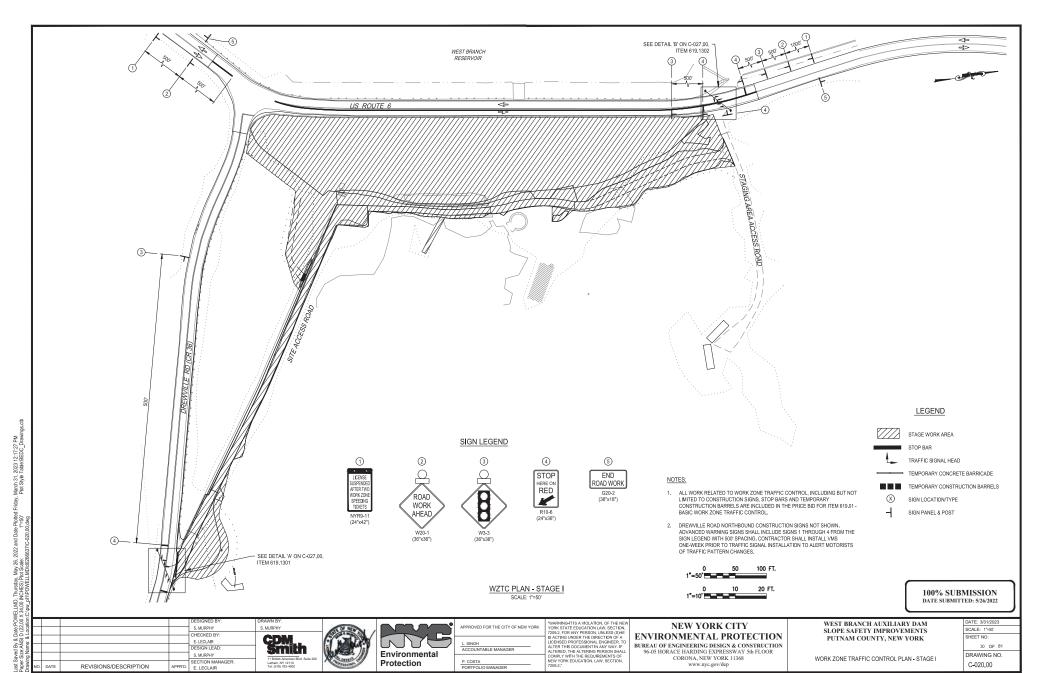
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WEST BRANCH AUXILIARY DAM SLOPE SAFETY IMPROVEMENTS PUTNAM COUNTY, NEW YORK

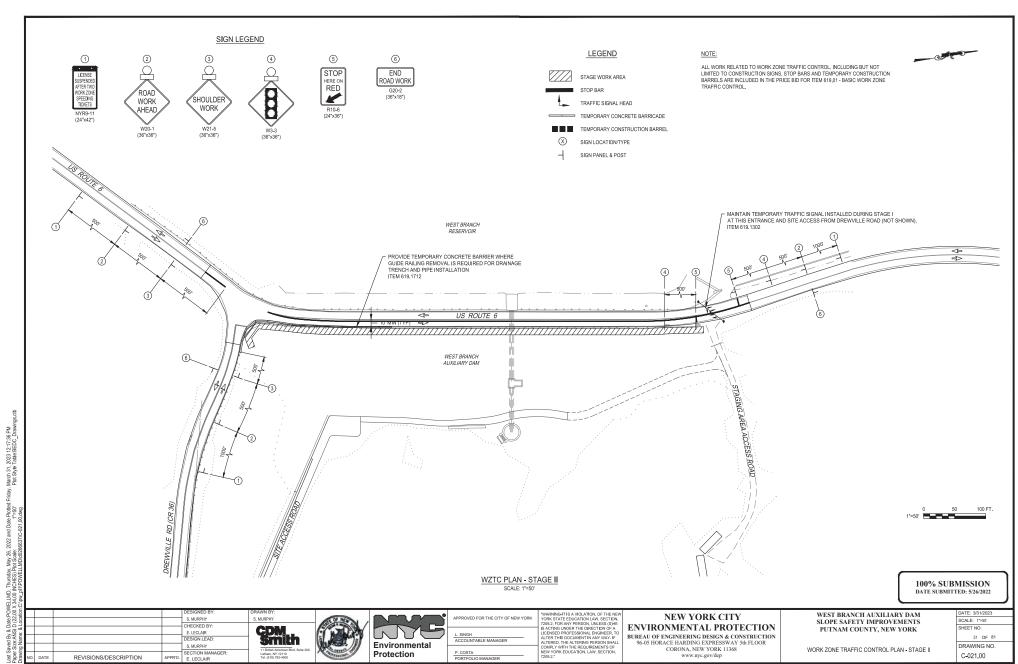
WORK ZONE TRAFFIC CONTROL NOTES

DATE: 3/31/2023 SCALE: N/A SHEET NO 29 OF 81 DRAWING NO. C-019.00

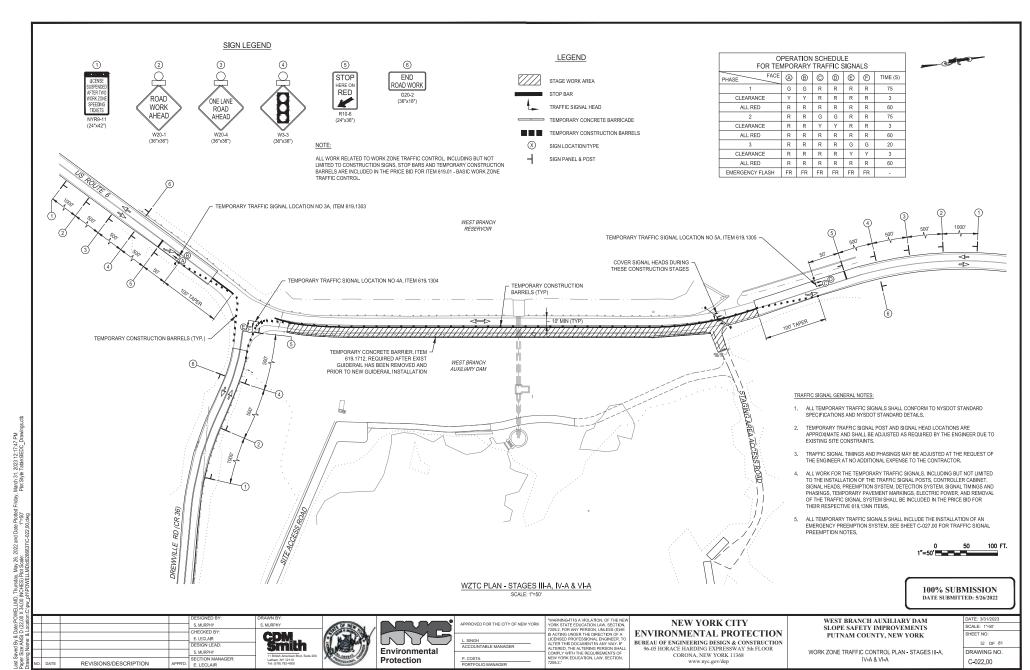
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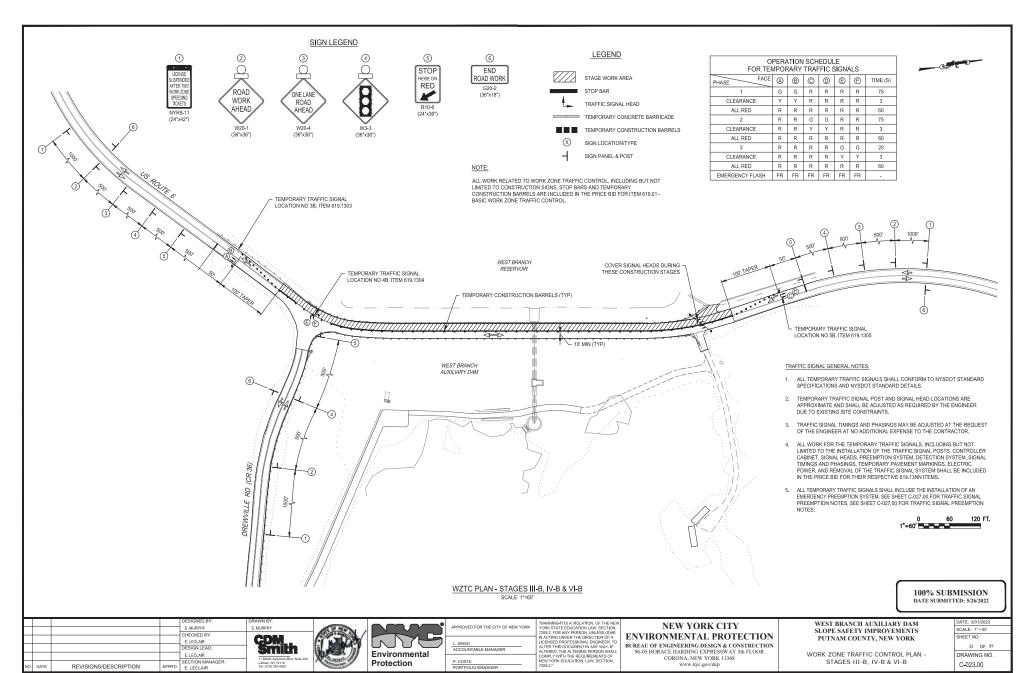


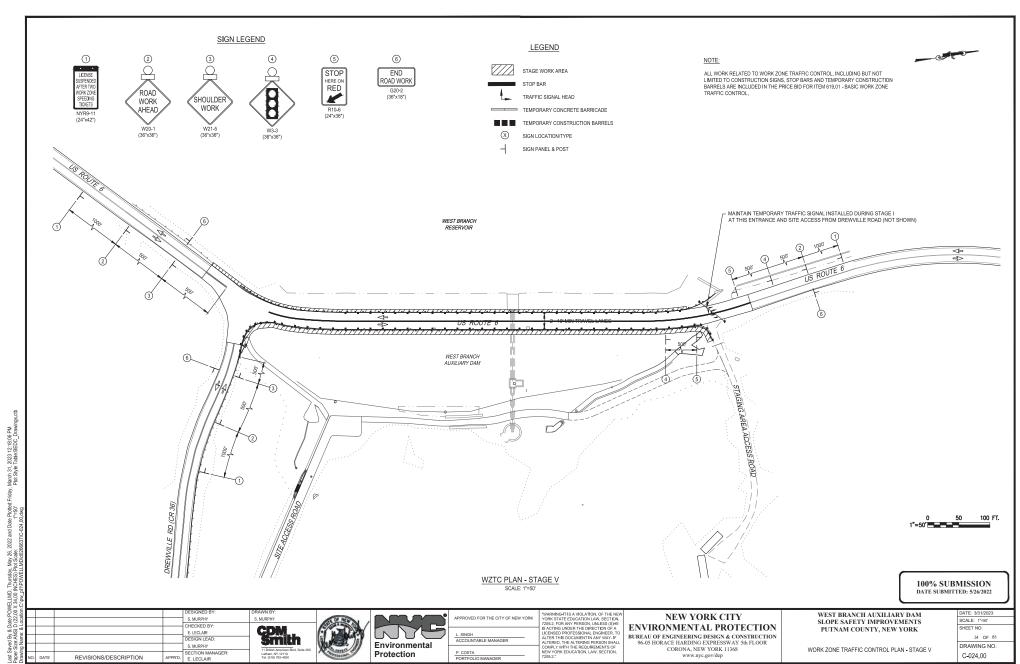
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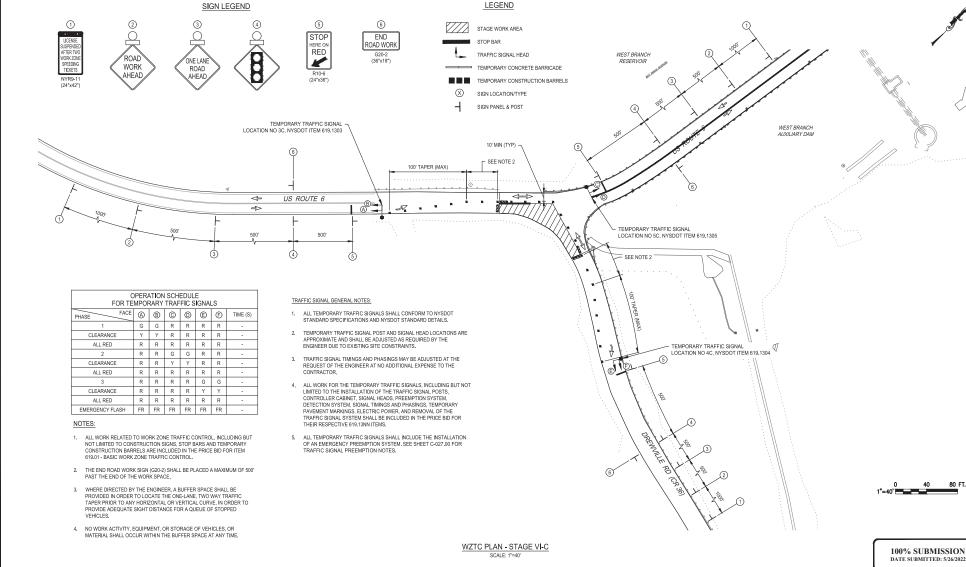
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L. SINGH ACCOUNTABLE MANAGER

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WEST BRANCH AUXILIARY DAM

SLOPE SAFETY IMPROVEMENTS

PUTNAM COUNTY, NEW YORK

WORK ZONE TRAFFIC CONTROL PLAN - STAGE VI-C

CALE: 1"=50"

35 OF 81

DRAWING NO.

C-025.00

NEW YORK CITY

ENVIRONMENTAL PROTECTION

BUREAU OF ENGINEERING DESIGN & CONSTRUCTION

96-05 HORACE HARDING EXPRESSWAY 5th FLOOR

CORONA, NEW YORK 11368

www.nyc.gov/dep

S MURPHY

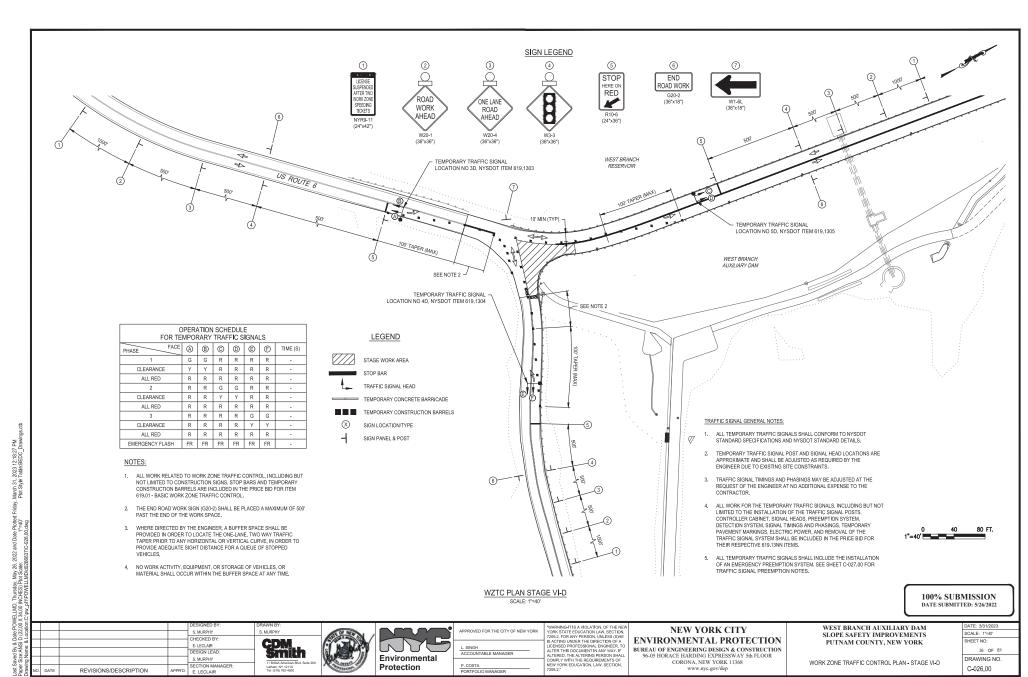
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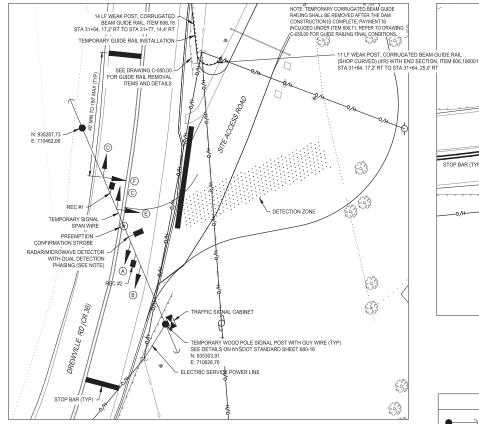
FIFCIAIR

S. MURPHY

REVISIONS/DESCRIPTION

S. MURPHY





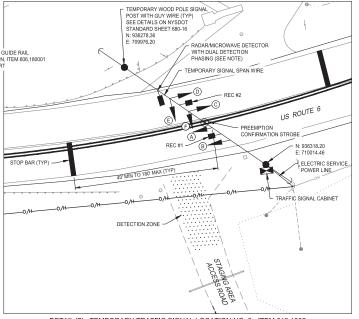


TRAFFIC SIGNAL GENERAL NOTES:

- 1. ALL TEMPORARY TRAFFIC SIGNALS SHALL CONFORM TO NYSDOT STANDARD SPECIFICATIONS AND NYSDOT STANDARD DETAILS.
- TEMPORARY TRAFFIC SIGNAL POST AND SIGNAL HEAD LOCATIONS ARE APPROXIMATE AND SHALL BE ADJUSTED AS REQUIRED BY THE ENGINEER DUE TO EXISTING SITE CONSTRAINTS.
- 3. TRAFFIC SIGNAL TIMINGS AND PHASINGS MAY BE ADJUSTED AT THE REQUEST OF THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER
- 4. ALL WORK FOR THE TEMPORARY TRAFFIC SIGNALS, INCLUDING BUT NOT LIMITED TO THE INSTALLATION OF THE TRAFFIC SIGNAL POSTS, CONTROLLER CABINET, SIGNAL HEADS, DETECTION SYSTEM, SIGNAL THININGS AND PHASINGS, TEMPORARY PAVEMENT MARKINGS, ELECTRIC POWER, AND REMOVAL OF THE TRAFFIC SIGNAL SYSTEM SHALL BE INCLUDED IN THE PRICE BIT OF THEIR RESPECTIVE 619.13NNI TEMPORARY.

TRAFFIC SIGNAL DETECTION NOTES:

- 5. CONTRACTOR SHALL INSTALL DETECTION SYSTEM USING CONTRACTOR'S OPTION OF RADIO OR MICROWAVE DETECTION. CONTRACTOR MAY ELECT TO USE VIDEO DETECTION AT NO ADDITIONAL COST. LOOP DETECTION IS NOT ACCEPTABLE.
- DETECTION SHALL HAVE DELAY FEATURE WITH DELAY DETECTION OF 10 SECONDS AFTER INITIAL DETECTION (DREWVILLE ROAD SITE ACCESS) AND 5.0 SECONDS (US ROUTE 6
 CONTRACTOR STAGING AREA ENTRANCE).



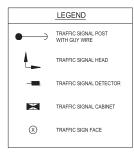
DETAIL 'B' - TEMPORARY TRAFFIC SIGNAL LOCATION NO. 2 - ITEM 619.1302

SCALE: 1"=10"



EMERGENCY VEHICLE PREEMPTION NOTES

- 1. THE BERECENDY VEHICLE PRESENTION SYSTEM SHALL BE INSTALLED IN THE SAME CABBET AS THE CONTROLLER THE MARK HAN MODEL OF THE PRESENTION SYSTEM FOR THIS PROJECT SHALL BE FULLY COMPATIBLE WITH THE LOCAL BERECENDES SYSTEM. THE CONTRACTOR SHALL COORDINATE WILL ALL LOCAL EMERICEN'S SERVICES TO SELECT THE PROPERTY MAKE AND MODEL OF THE PRESENTION COUPTION THE PROPERTY MAKE AND MODEL OF THE PRESENTION COUPTION THE PRESENTION SYSTEM SHALL BE SEPARATE FROM THE CABLE ASSOCIATED WITH THE TRAFFEE SONAL SYSTEM.
- 2. THE EMERGENCY VEHICLE PREEMPTION CONTROL SYSTEM SHALL CONSIST OF A DATA-ENCODED PHASE SELECTION TO BE INSTALLED WITHIN THE TRAPPIC CONTROL CASHIT. THIS UNIT WILL SERVE TO VALIDATE IDENTIFY. CLASSIFY AND RECORD THE SERVAL FROM THE OPTICAL DETECTIONS LOCATED ON SUPPORT STRUCTURES AT THE OPTICAL DETECTIONS LOCATED ON SUPPORT STRUCTURES AT THE THE PHASE SELECTION SHALL GENERATE A PREEMPT CALL TO THE CONTROLLER INTRITANCE A PREEMPT CALL TO THE CONTROLLER INTRITANCE A PREEMPT CALL TO THE HAS DESCRIBED TO SHALL STATT UP IN THE MAIN LINE GREEN PHASE.
- THE OPTICAL DETECTORS SHALL BE SINGLE INPUT, SINGLE OUTPUT UNITS
 USED TO CONTROL ONE APPROACH. ALL TRAFFIC SIGNAL INSTALLATIONS
 SHALL BE SUPPLIED WITH A MINIMUM OF TWO OPTICAL DETECTORS.
- 4. THE PHASE SELECTOR SHALL BE A PACKAGUNITED BLUGAIN TWO OR FOR CHAMBLE UILDA PRIGHTED FORCE. THE PHASE SELECTOR SHALL PLUG NTO A SHEEL-MOUNTED SHAGE CARD SLOT CHASSIS. PROGRAMMON THE PHASE SELECTOR SHALL BE VAN A PEGASED COMPUTER UTLIZING UINT SPECIFIC SOFTWARE. A HARD COPY OF INHAL PROGRAMMON COTA SHALL BEFIT IN THE CONTROL CABRET. THE CONTRACTOR SHALL SUPELY A COMPLETE SET OF INTERFACE CABLES FOR PHASE SELECTOR TO LADRO CONNECTION.
- 5. THE CONTRACTOR SHALL INSTALL A CONFIRMATION STROBE AT THE TRAFFIC SIGNAL, LOCATION AS SHOWN ON THE PLANS. THE CONFIRMATION STROBE SHALL SERVE TO YOULD ET OT THE DRIVER OF THE EMERGENCY VEHICLE THAT THE TRAFFIC SIGNAL HAS RECOGNIZED THE PRESEMPTION CALL AND MILL INTITIET THE PROFER PRESEMPTION SEQUENCE. THE CONFIRMATION STROBE SHALL HAVE A CLEARWHITE LENS.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER PROCESSION OF THE PROPER PROCESSION OF THE PLANS SELECTION, ORIENTATION OF THE OPTICAL COMPLETE AND OPERATION SELECTION. COMPLETE AND OPERATION SEMESTICS OF THE CONTRACTOR MAY BE REQUIRED TO FIELD ADJUST THE LOCATION OF THE OPTICAL DIFFERENCE FOR THE PRESENCE OF THE ENGINEER TO PROPERLY DETECTION FOR THE PRESENCE OF THE ENGINEER TO PROPERLY DETECTION OF THE PRESENCE OF THE ENGINEER TO PROPERLY DETECTION OF THE PRESENCE OF THE ENGINEER TO PROPERLY DETECTION OF THE PROPERLY SELECTION OF THE PROPERLY SELECTI
- CONTRACTOR SHALL INSTALL EMERGENCY PREEMPTION CONTROL SYSTEM AS DESCRIBED IN THE ABOVE NOTES FOR EACH OF THE TEMPORARY TRAFFIC SIGNALS RELATED TO ITEMS 619.1303, 619.1304, 619.1305



OPERATION SCHEDULE FOR TEMPORARY TRAFFIC SIGNALS - LOCATION NO. 1							
PHASE FACE A B C D E F TIME (S)							
1	G	G	G	G	R	R	-
CLEARANCE	Υ	Υ	Υ	Υ	R	R	3
ALL RED	R	R	R	R	R	R	3
2	R	R	R	R	G	G	20
CLEARANCE	R	R	R	R	Υ	Υ	3
ALL RED	R	R	R	R	R	R	3
EMERGENCY FLASH	FR	FR	FR	FR	FR	FR	-

OPERATION SCHEDULE FOR TEMPORARY TRAFFIC SIGNALS - LOCATION NO. 2							
PHASE FACE	A	®	©	0	(E)	(Ē)	TIME (S)
1	G	G	G	G	R	R	-
CLEARANCE	Υ	Υ	Υ	Υ	R	R	3
ALL RED	R	R	R	R	R	R	3
2	R	R	R	R	G	G	12
CLEARANCE	R	R	R	R	Υ	Υ	3
ALL RED	R	R	R	R	R	R	3
EMERGENCY FLASH	FR	FR	FR	FR	FR	FR	-



100% SUBMISSION DATE SUBMITTED: 5/26/2022

ocation:				DESIGNED BY: E. LECLAIR	DRAWN BY: S. MURPHY
Name: & Lo				CHECKED BY: E. LECLAIR DESIGN LEAD:	CDM Smith
orawing P	DATE	REVISIONS/DESCRIPTION	APPR'D.	S. MURPHY SECTION MANAGER: E. LECLAIR	11 British American Blvd, Suite 200 Latham, NY 12110 Tel: (518) 782–4500



MAN.	APPROVE
Environmental	L. SINGH
Protection	P. COST

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WEST BRANCH AUXILIARY	DAN
SLOPE SAFETY IMPROVEMI	ENT
PHTNAM COUNTY NEW YO)RK

WORK ZONE TRAFFIC CONTROL - TEMPORARY TRAFFIC SIGNAL PLAN

DATE: 3/31/2023					
SCALE: 1"=10"					
SHEET NO:					
37 OF 81					
DRAWING NO.					
C-027.00					

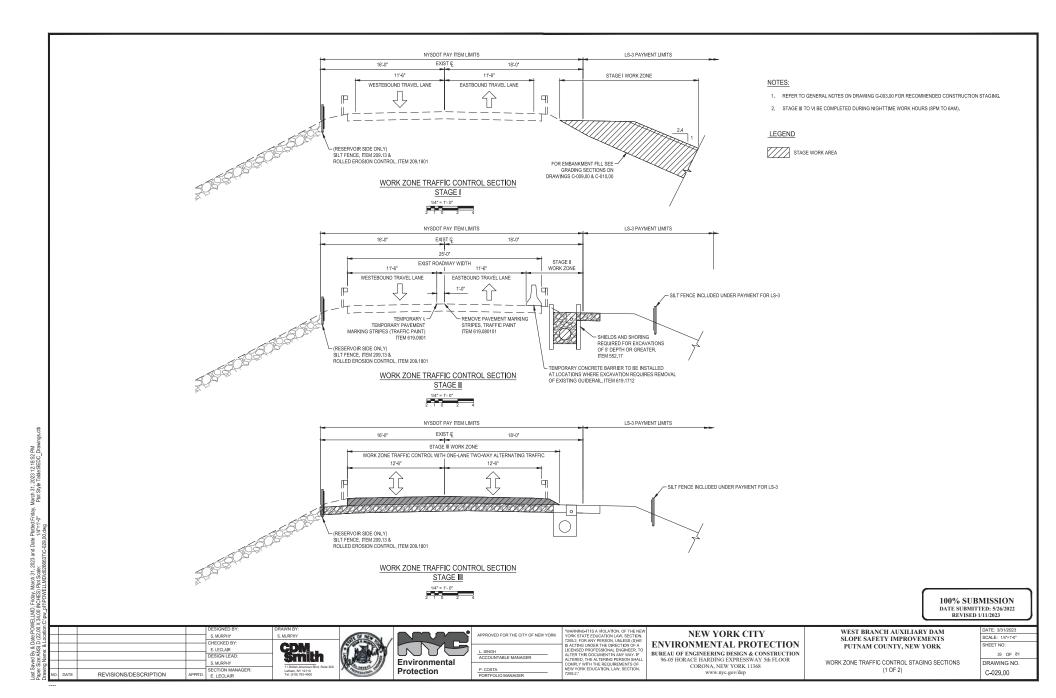
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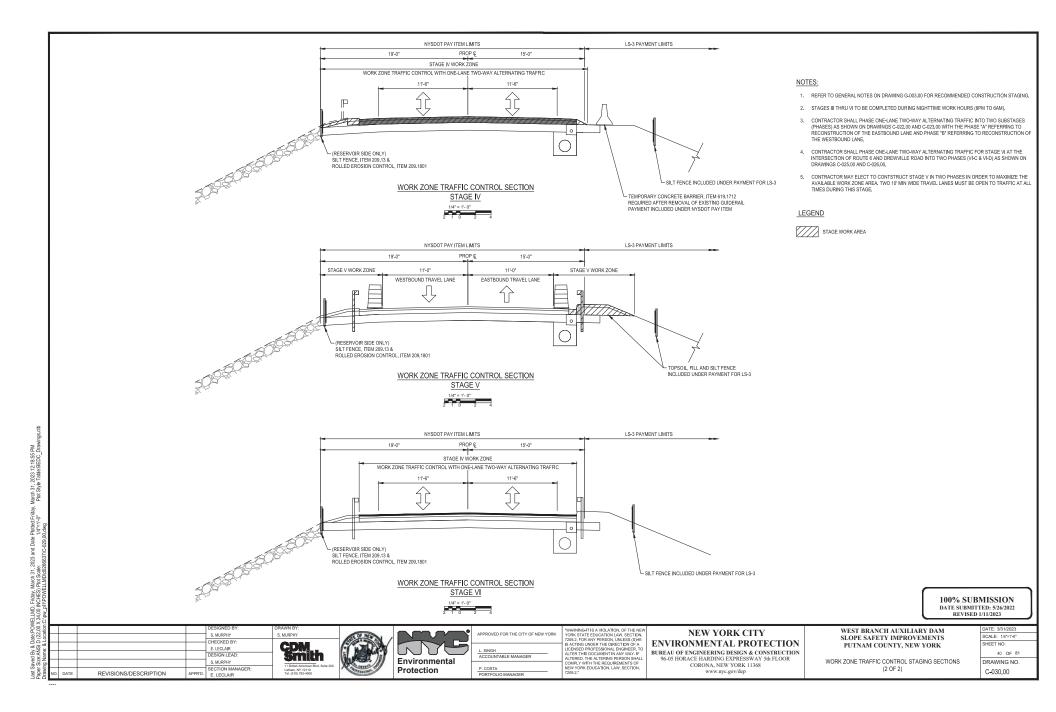
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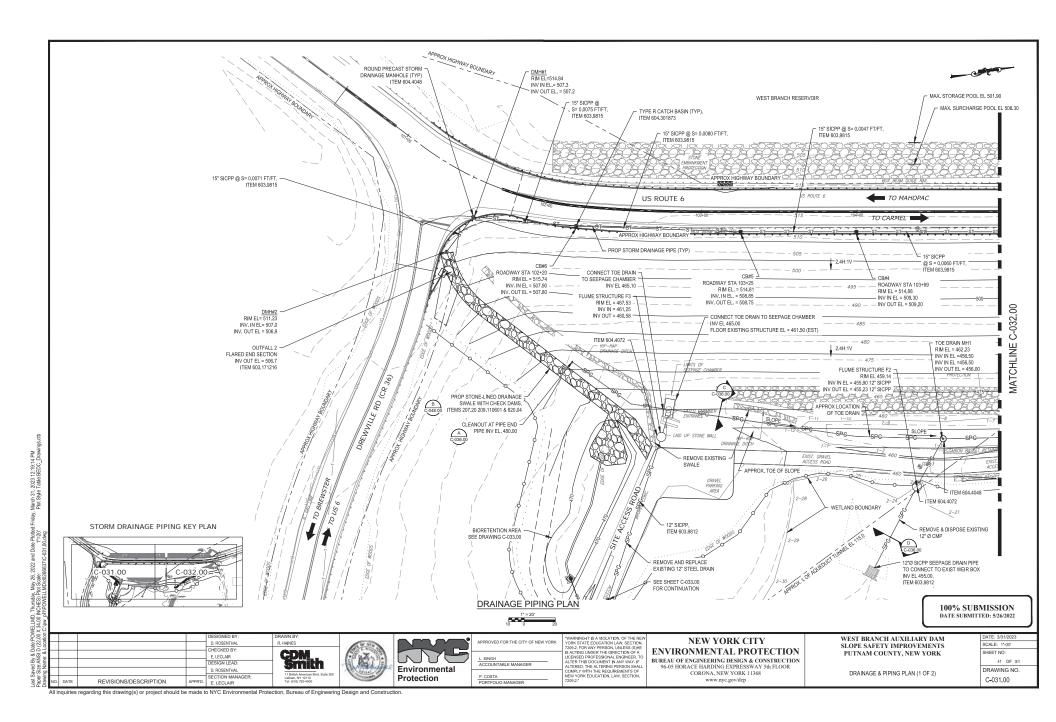
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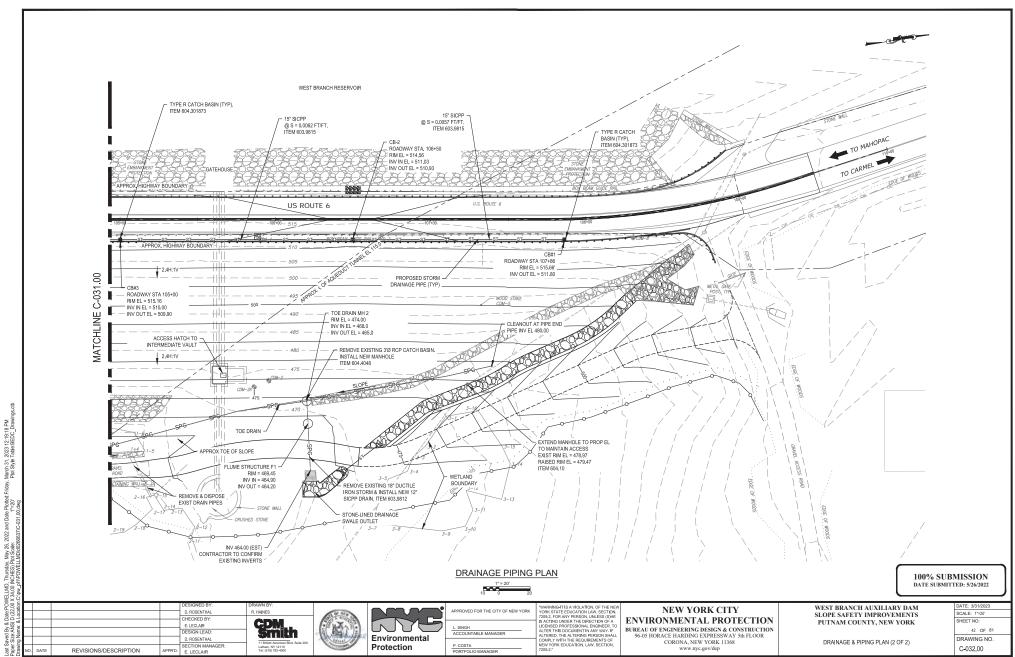
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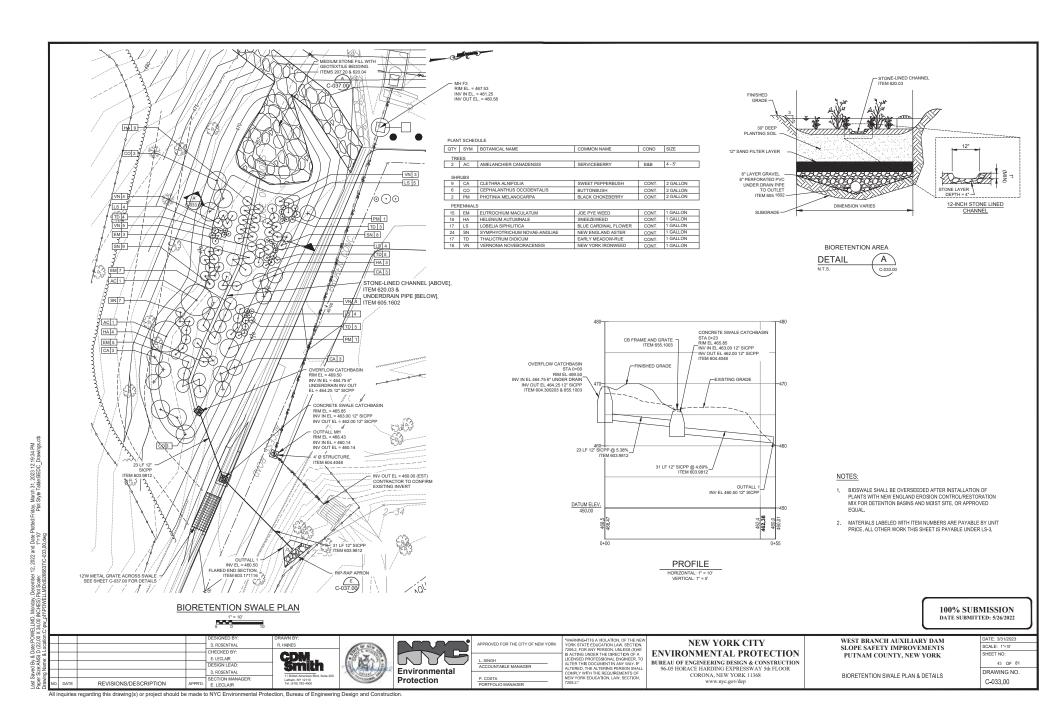


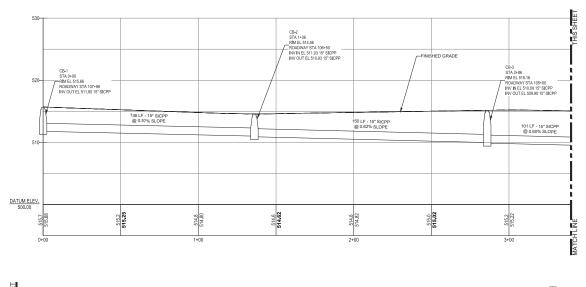






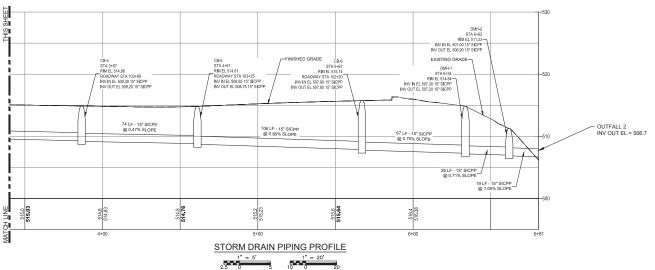
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PAYMENT NOTES:

- 1. ALL 15" SICPP SHOWN ARE ITEM 603.9815
- ALL CATCHBASINS [CB'] SHOWN ARE ITEM 604 301873, WITH FRAMES AND GRATES ITEM 655 0706
- ALL MANHOLES ['DMH'] SHOWN ARE ITEM 604.4048, WITH FRAME AND COVER ITEM 655.1202.



Last Sawed By & Dese POWELLIND, Thursday, May UG, 2022 and Dase Potend Friday, March 31, 2023 12:19:49 PM Paper Steach Not 17 (200 NY, 400) (HOHES IP) follow Steach (1900) (HOHES) follows Post Steach Steach Steach (1900) (HOHES) follows Steach (1900) (HOHES) (HO

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			D. ROSENTHAL	R. HAINES	
			CHECKED BY:		ı
			E. LECLAIR	CDM_	
			DESIGN LEAD:	Smith	
			D. ROSENTHAL	11 British American Blot Suite 200	l
DATE	REVISIONS/DESCRIPTION	APPR'D.	SECTION MANAGER: E. LECLAIR	Latham, NY 12110 Tel: (518) 782-4500	
	DATE	DATE REVISIONS/DESCRIPTION	DATE REVISIONS/DESCRIPTION APPRO.	CHECKED BY: ELECUAR DESIGN LEAD: 0. ROSENTHAL SECTION MANAGER:	D. ROSENTMAL R. HANNES CHECKED BY: E. I.ECUAR DESIGN LEAD: D. ROSENTMAL SECTION MANAGER: Lather Manager Bird, Suite 200 Lather, NY 2015



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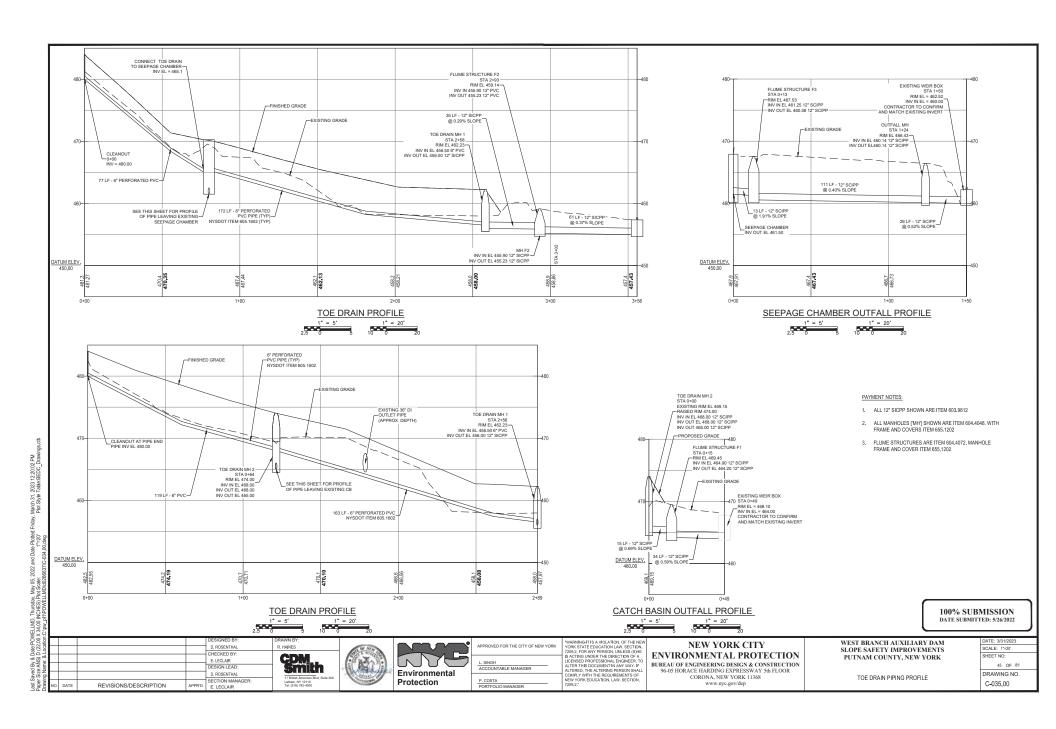
BUREAU OF ENGINEERING DESIGN & CONSTRUCTION 96-05 HORACE HARDING EXPRESSWAY 5th FLOOR CORONA, NEW YORK 11368 www.nyc.gov/dep

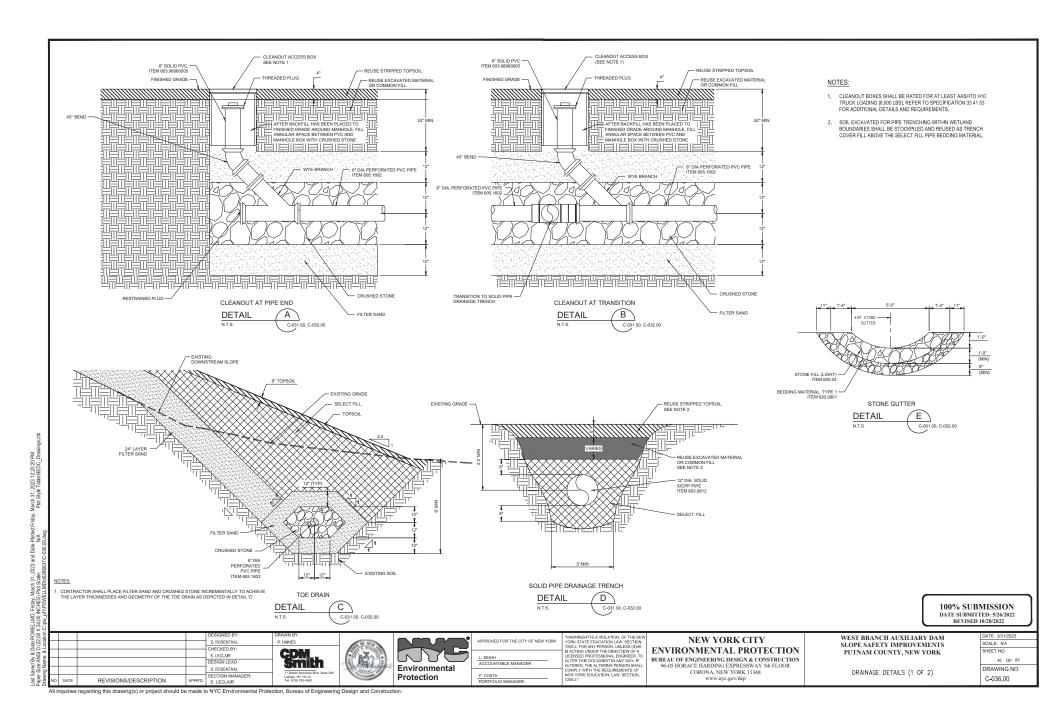
WEST BRANCH AUXILIARY DAM SLOPE SAFETY IMPROVEMENTS PUTNAM COUNTY, NEW YORK

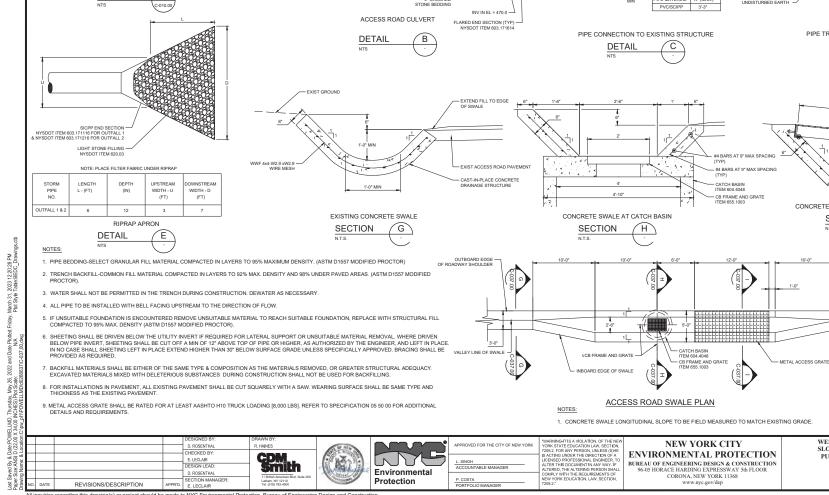
STORM DRAIN PIPING PROFILE

DATE: 3/31/2023
SCALE: 1"=20"
SHEET NO:
44 OF 81
DRAWING NO.
C_034.00

100% SUBMISSION DATE SUBMITTED: 5/26/2022







12" MIN COVER TO BOTTOM OF SUBBASE (TYP)

4" CRUSHED -

- 24" SICPP

NYSDOT ITEM 603 9824

S-INCHES LOAM AND SEED

SICPP PIPE

SEE DETAIL 'J'

#4 BARS AT 9" MAX SPACING

#4 BAR AT 9" MAX SPACING

- L5x3xg x 12' [LLV]

WELDED TO MAIN BAR

PL #" x 1}"

DATE: 3/31/2023

47 OF 81

DRAWING NO.

C-037.00

SCALE: N/A

DETAIL 'J'

N.T.S.

100% SUBMISSION DATE SUBMITTED: 5/26/2022

2" x 1" HEADED CONCRETE ANCHOR STUD W/ 1' MAX SPACING

POURED OR HAND PACKED NON-SHRINK GROUT. HALLEMITE, WATERPLUG, EMBECO OR APPROVED EQUA

CONCRETE ENCASEMENT TO 12" EACH SIDE OF PIPE

MANHOLE WATER STOP GASKET AND #316

STAINLESS STEEL CLAMP

MAXIMUM STUB LENGTH

PIPE MATERIAL "A" (MAX.)

FLOW

FILTER FABRIC

PIPE TRENCH (OUTSIDE NYSDOT PAY LIMITS)

CONCRETE SWALE AT METAL ACCESS GRATE

SECTION

D

METAL ACCESS GRATE SEE NOTE 9

½" DIA BOLT x 1" LONG W/ MAX 3' SPACING. NUT TO BE TACK WELDED TO ANGLE

WEST BRANCH AUXILIARY DAM

SLOPE SAFETY IMPROVEMENTS

PUTNAM COUNTY, NEW YORK

DRAINAGE DETAILS (2 OF 2)

DETAIL

SHIFLDS AND SHORING

UNDISTURBED EARTH

CORE DRILLED

NOTES

THE STONE FILLING

All inquiries regarding this drawing(s) or project should be made to NYC Environmental Protection, Bureau of Engineering Design and Construction.

GEOTEXTII E ING. ITEM 207.20 (SEE NOTE 2)

STONE FILLING SHALL BE RECOVERED RIP-RAP FROM EXISTING SITE SUPPLEMENTED WITH MEDIUM STONE FILLING, ITEM 620.04.THE

EXISTING RIP-RAP SHALL BE BROKEN DOWN INTO SIZES ACCEPTABLE WITH ITEM 620.04.

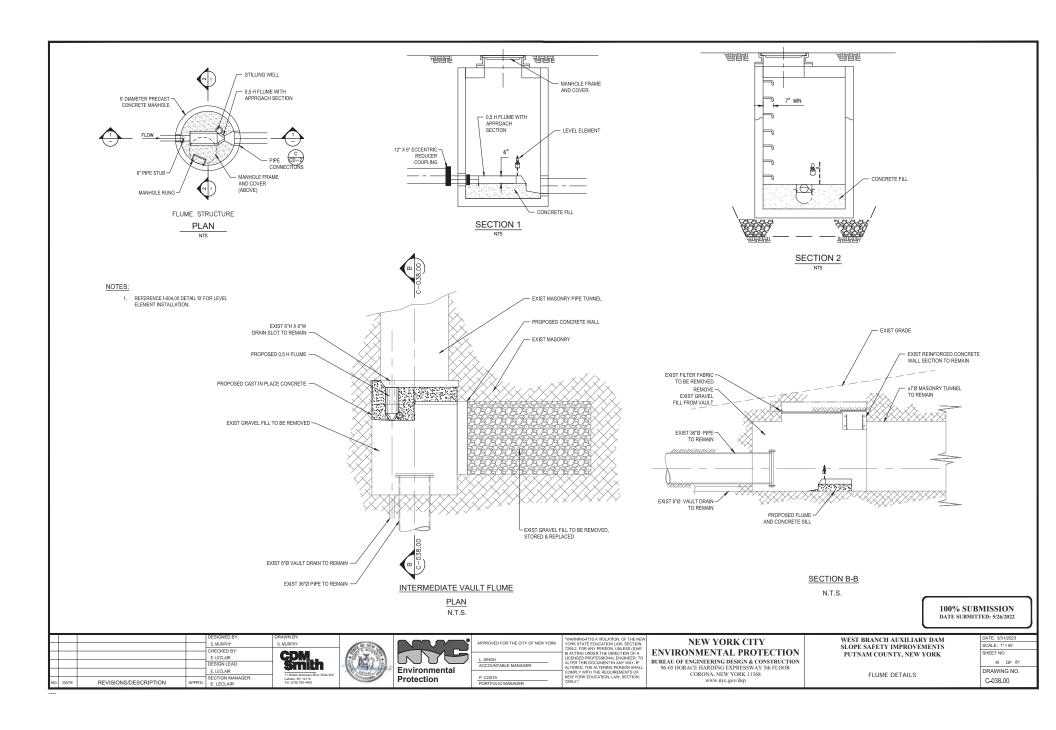
SWALE

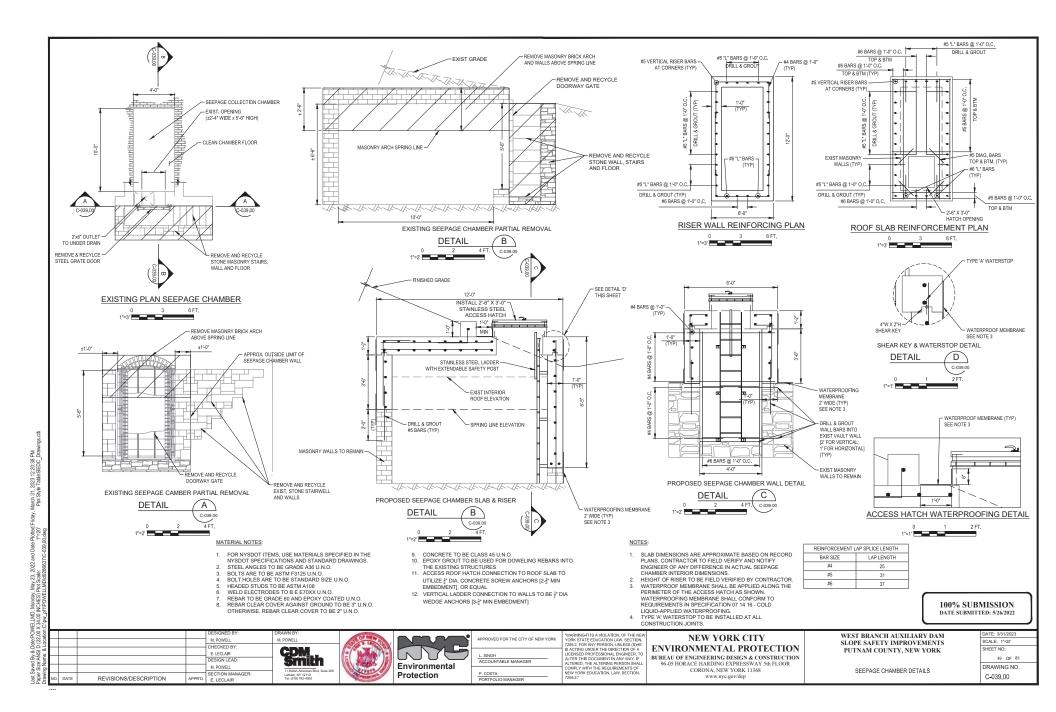
DETAIL

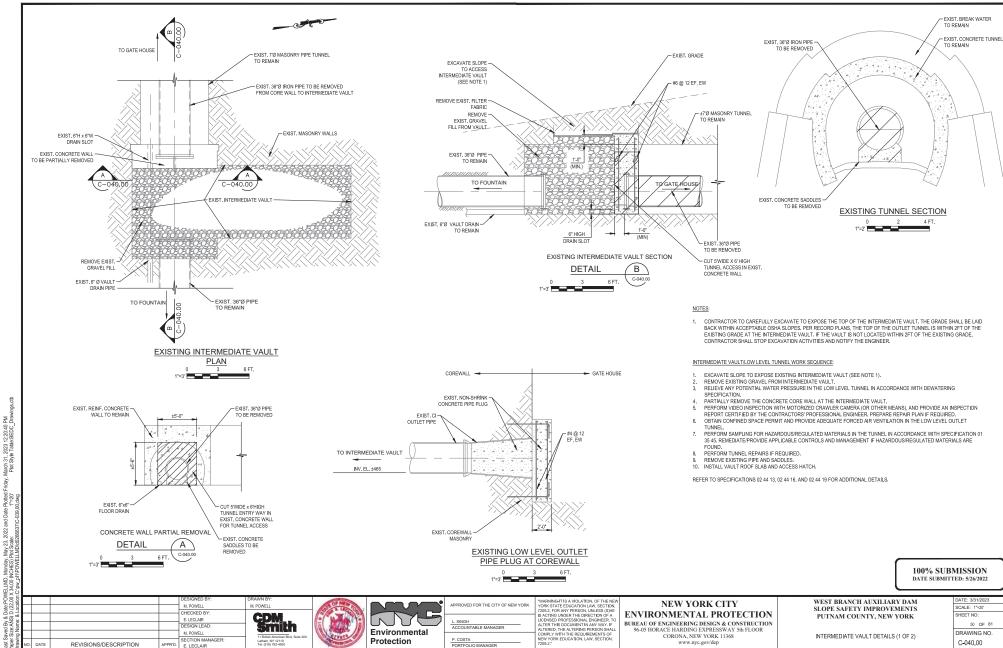
GEOTEXTILE BEDDING SHALL EXTEND 1' MIN BEYOND THE EDGE OF

STONE FILLING (SEE NOTE 1)

INV OUT EL = 467.0 -







CORONA, NEW YORK 11368

DRAWING NO.

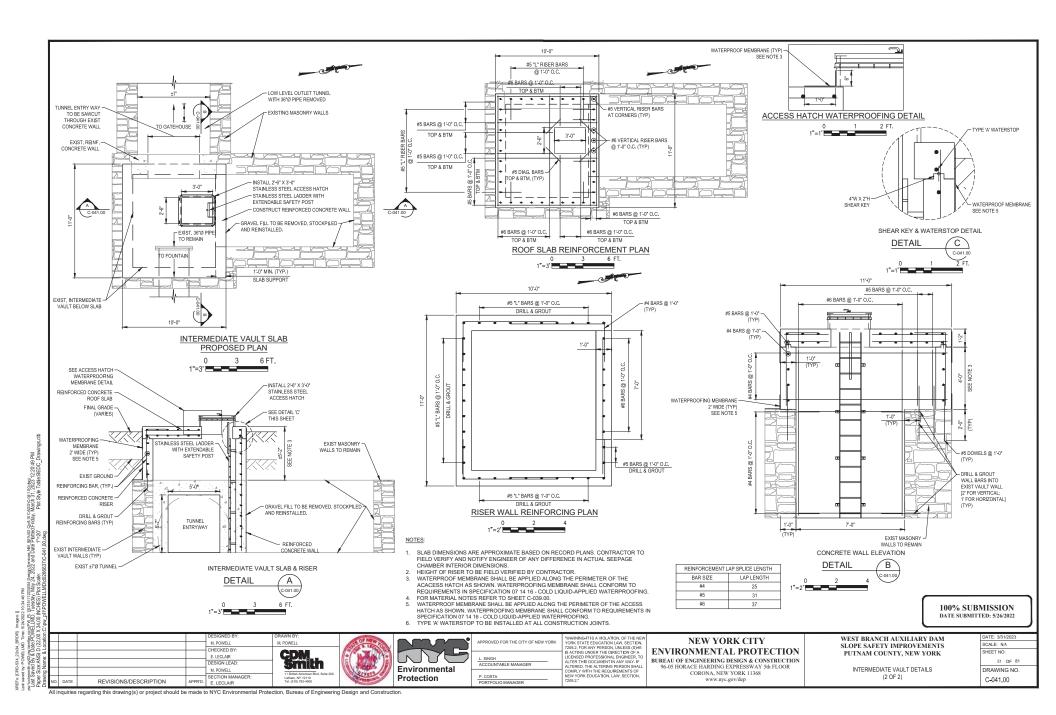
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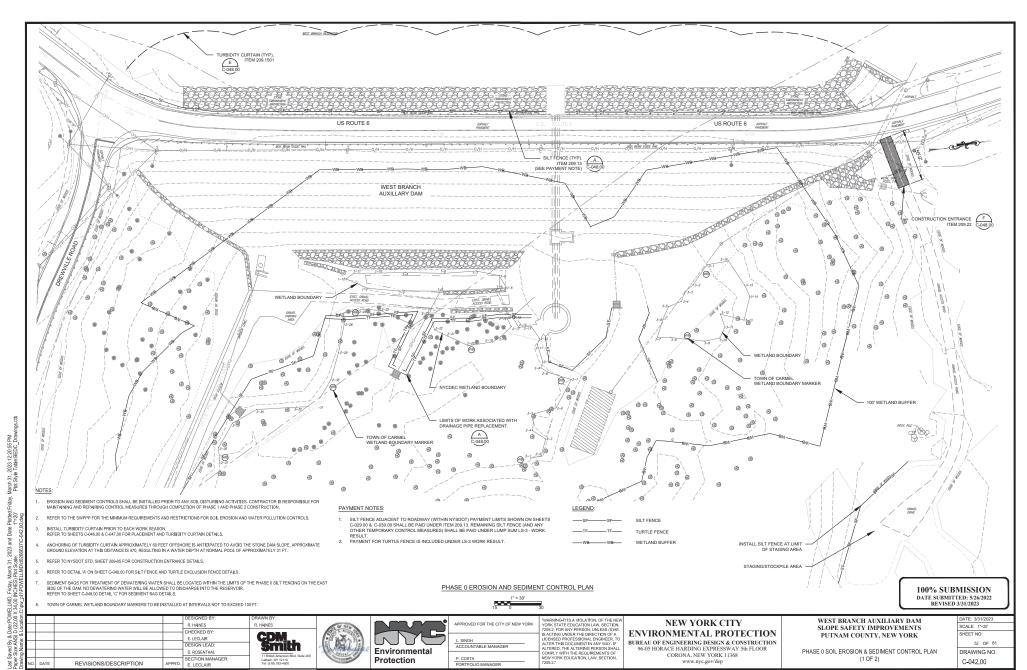
INTERMEDIATE VAULT DETAILS (1 OF 2)

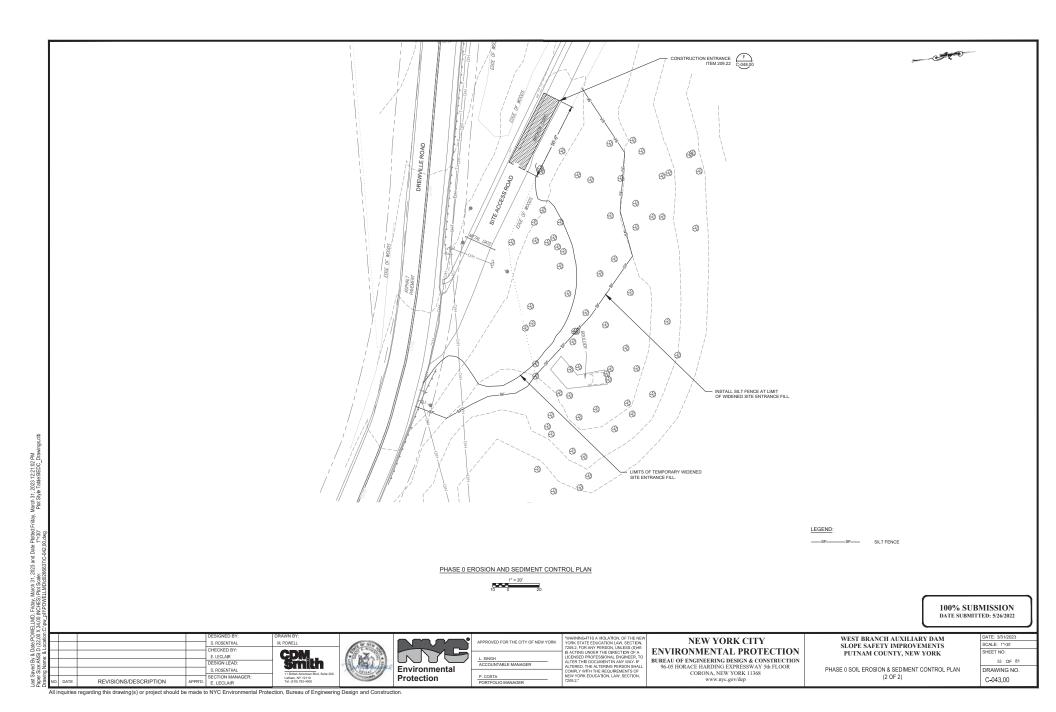
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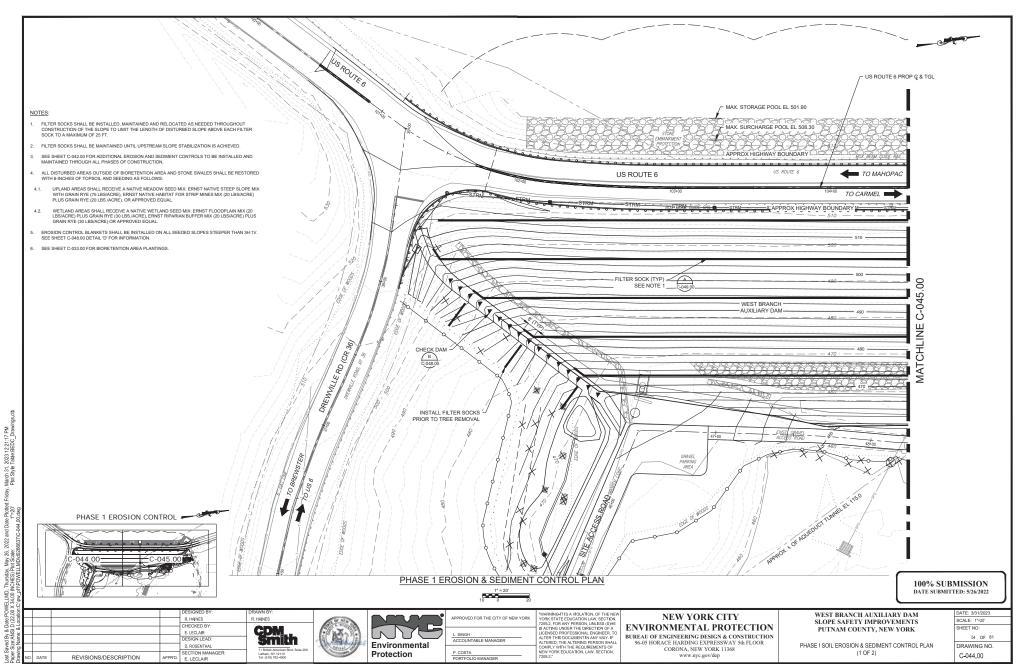
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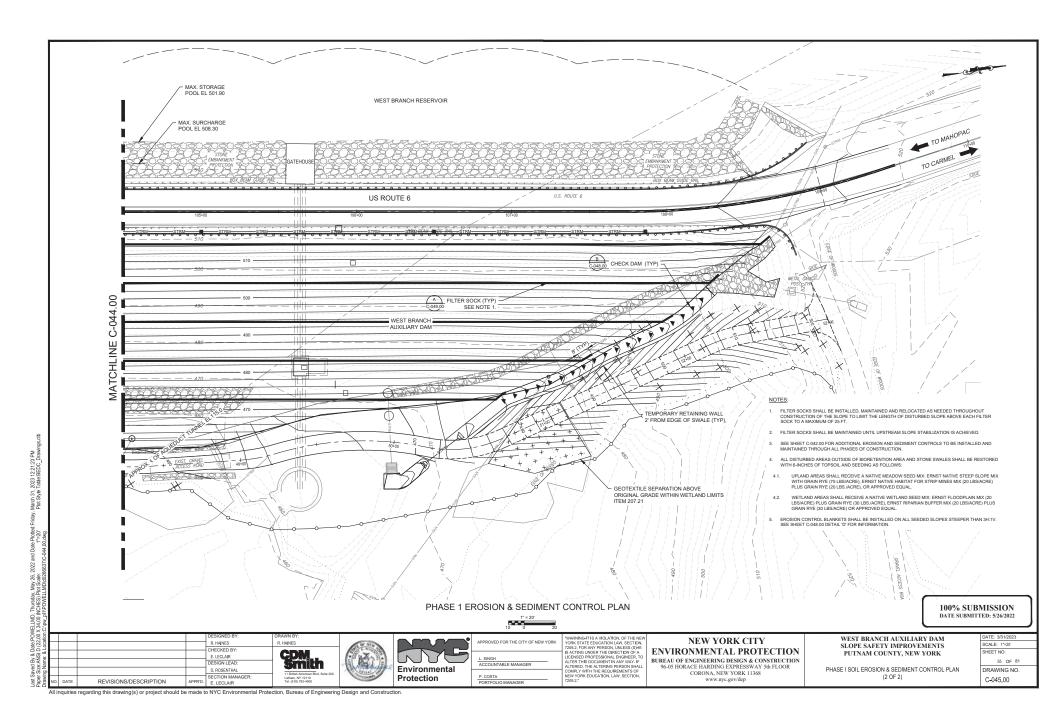
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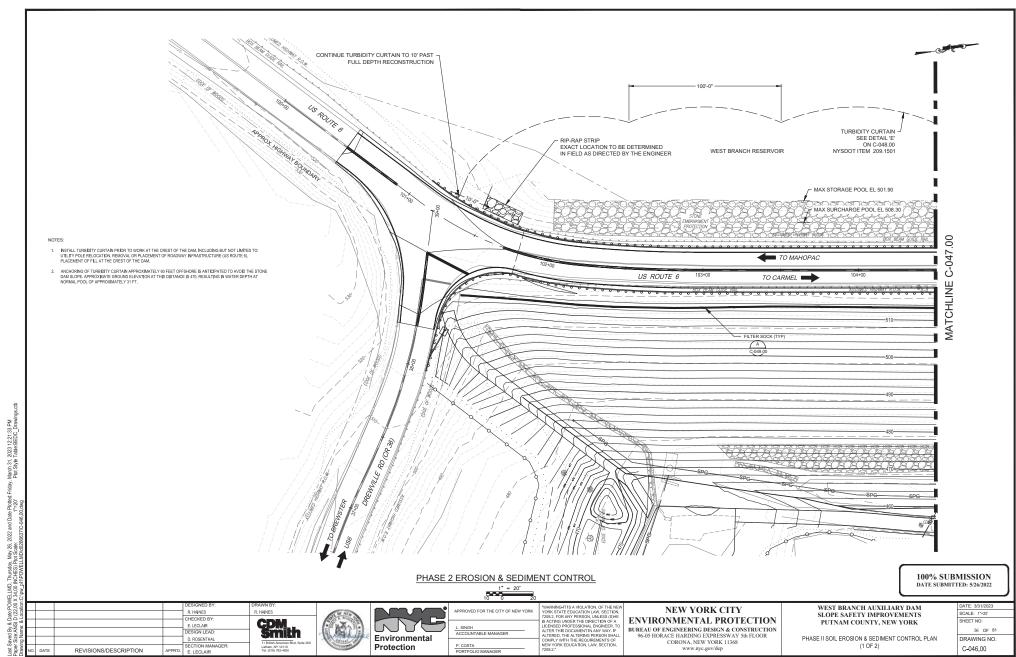


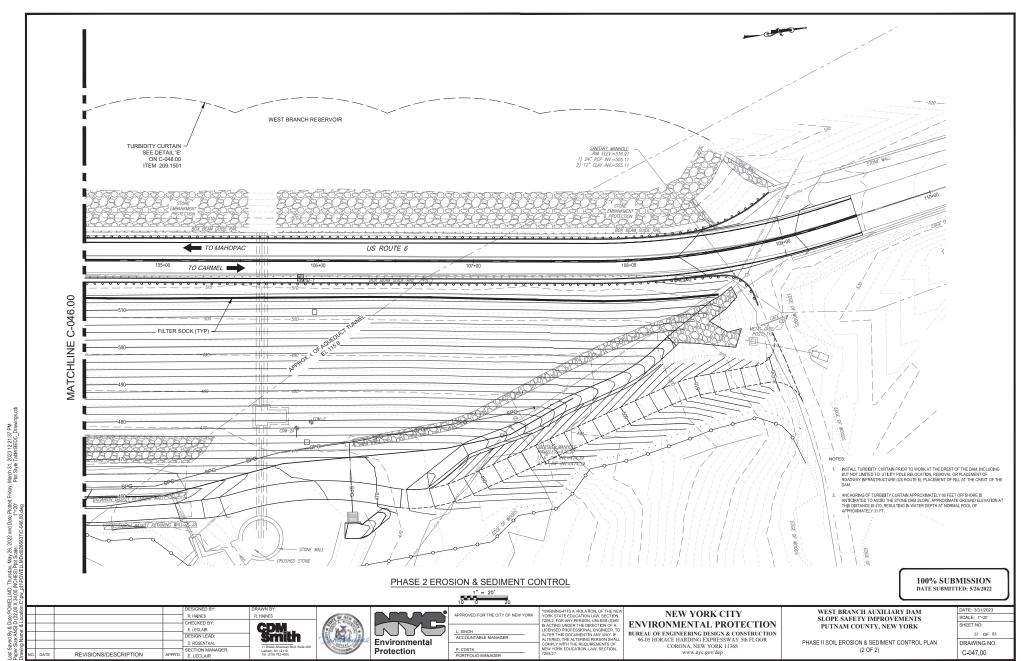




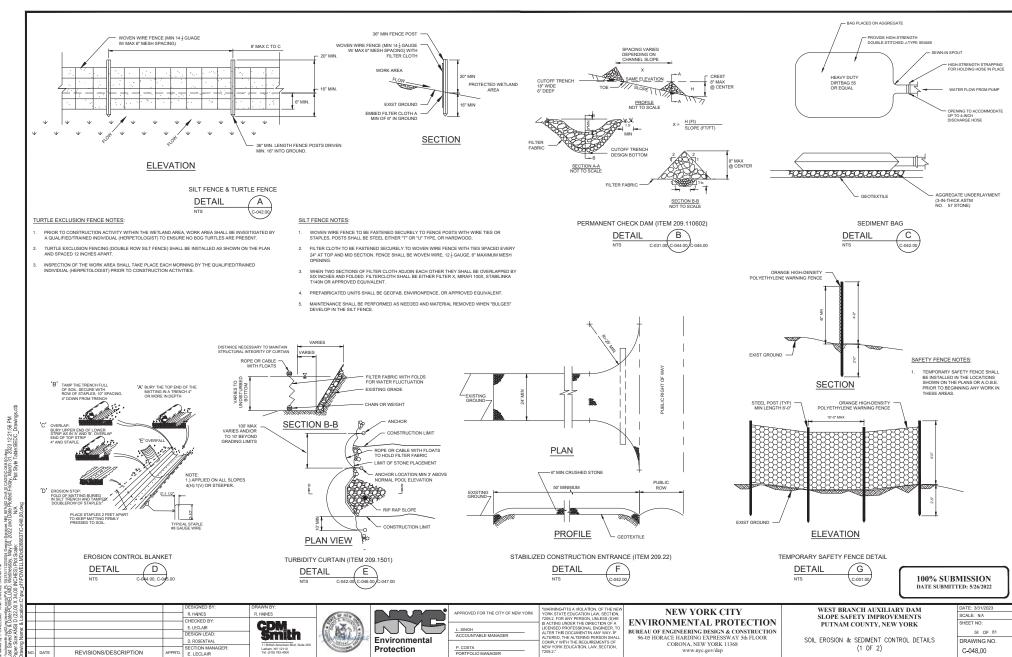








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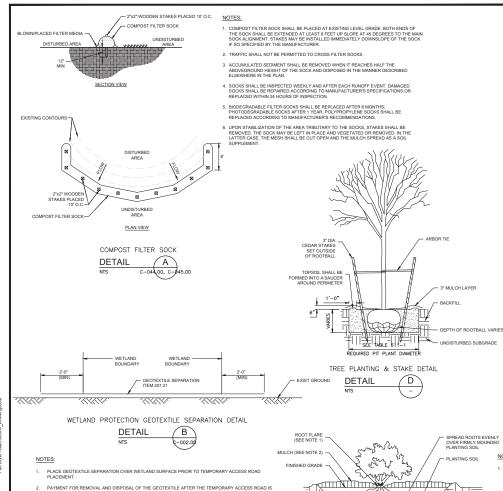
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CORONA, NEW YORK 11368

(1 OF 2)

C-048.00

APPR'D. E. LECLAIR



> TABLE 611-1 - REQUIRED PLANT PIT DIAMETER PLANT PIT DIAMETER ROOT SPREAD / ROOT BALL DIAMETER UNDER 2'-0" FROM 2'-0" TO 4'-0 3X THE ROOT SPREAD OR ROOT BALL DIAMETER 2X THE ROOT SPREAD OR ROOT BALL DIAMETER

C-005.00

SITE ENTRANCE RESTORATION PLANTINGS

DETAIL

NTS

PLANT SCHEDULE - UPPER FLATTENED AREA DOTANICAL NAME

Q I I	DOT/WIO/LIVIIL	COMMINDITION	OUTTAINETT OILE (OFFICIONO)
TRE	ES		
3	QUERCUS ALBA	WHITE OAK	#5 OR LARGER
3	QUERCUS RUBRA	RED OAK	#5 OR LARGER
3	ACER SACCHARUM	SUGAR MAPLE	#5 OR LARGER
3	ACER RUBRUM	RED MAPLE	#5 OR LARGER
3	LIRIODENDRON TULIPIFERA	TULIP POPLAR	#5 OR LARGER
4	BETULA LENTA	SWEET BIRCH	#5 OR LARGER

COMMON NAME

CONTAINER SIZE (GALLONS)

ь	VIBURNUM DENTATUM	SOUTHERN ARROWWOOD	(3) #2 & (3) #3
6	CORNUS FLORIDA	FLOWING DOGWOOD	(3) #2 & (3) #3
6	VIBURNUM PRUNIFOLIUM	BLACKHAW VIBURNUM	(3) #2 & (3) #3
6	HAMAMELIS VIRGINIANA	AMERICAN WITCH HAZEL	(3) #2 & (3) #3
5	AMELANCHIER CANADENSIS	SERVICEBERRY	(3) #2 & (2) #3
SEE	D MIX		

PLANT SCHEDULE - LOWER SLOPED FILL AREA

QTY BOTANICAL NAME

ERNMX-123 NATIVE UPLAND FORAGE & COVER MI

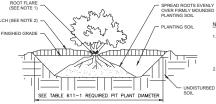
9	VIBURNUM DENTATUM	SOUTHERN ARROWWOOD	(5) #2 & (4) #3		
9	CORNUS FLORIDA	FLOWING DOGWOOD	(5) #2 & (4) #3		
6	VIBURNUM PRUNIFÓLIUM	BLACKHAW VIBURNUM	(5) #2 & (4) #3		
9	HAMAMELIS VIRGINIANA	AMERICAN WITCH HAZEL	(5) #2 & (4) #3		
9	AMELANCHIER CANADENSIS	SERVICEBERRY	(5) #2 & (4) #3		

HERBACEOUS SHRUBS					

NOTES:

- THE PLANTING SCHEDULE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. NYCOEP BWS NATURAL RESOURCES STAFF TO PROVIDE PLANTINGS LOCATION IN THE FIELD AT TIME OF INSTALLATION.
- THE PLANTINGS ARE BROKEN INTO TWO SEPARATE AREAS: THE UPPER FLATTENED AREA OF THE WIDENED ENTRANCE, AND THE LOWER SLOPED FILL AREA.
- TREES WITHIN 15' OF THE WORK SHALL BE PROTECTED AS OUTLINED IN SPECIFICATION 31 10 10 SITE CLEARING.
- ALL PLANTINGS SHALL BE VERIFIED BY THE TOWN OF CARMEL WETLANDS INSPECTOR PRIOR TO INSTALLATION.
- ALL PLANTINGS SHALL BE INSTALLED PER §142 OF THE TOWN OF CARMEL TOWN CODE.

- PAYMENT FOR REMOVAL AND DISPOSAL OF THE GEOTEXTILE AFTER THE TEMPORARY ACCESS ROAD IS REMOVED IS INCLUDED UNDER LS-3, WORK RESULT.
- 3. PLACEMENT AND REMOVAL OF THE GEOTEXTILE SHALL BE COMPLETE WITH MINIMAL DISTURBANCE TO



MULCH SHALL BE A MAXIMUM OF 3" DEEP AND TAPERED DOWN TO LEAVE THE ROOT FLARE EXPOSED. WHEN PLANTING ON SLOPES, DOWNHILL SIDE MUST BE STABILIZED APPROPRIATELY OR SEEDING ON DOWNHILL SIDE MAY BE SPECIFIED. THE ROOT FLARE SHALL BE VISIBLE AND LEVEL WITH

100% SUBMISSION DATE SUBMITTED: 5/26/2022

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5	П				DESIGNED BY:	DRAWN BY:	Г
3					R. HAINES	R. HAINES	
Q LC					CHECKED BY:		
9	\mathbf{L}				E. LECLAIR	GDW	
Ē					DESIGN LEAD:	Smith	
6					D. ROSENTHAL	11 British American Blvd. Suite 200	
Urawir	NO.	DATE	REVISIONS/DESCRIPTION	APPR'D.	SECTION MANAGER: E. LECLAIR	Latham, NY 12110 Tel: (518) 782-4500	L



DETAIL

Environmental
Protection

SHRUB PLANTING DETAIL

1	APPROVED FOR THE CITY OF NEW YORK	YOR 7209
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L	ACCOUNTABLE MANAGER	ALTE
Γ	D COSTA	COM

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BUREAU OF ENGINEERING DESIGN & CONSTRUCTION 96-05 HORACE HARDING EXPRESSWAY 5th FLOOR CORONA, NEW YORK 11368

WEST BRANCH AUXILIARY DAM SLOPE SAFETY IMPROVEMENTS PUTNAM COUNTY, NEW YORK

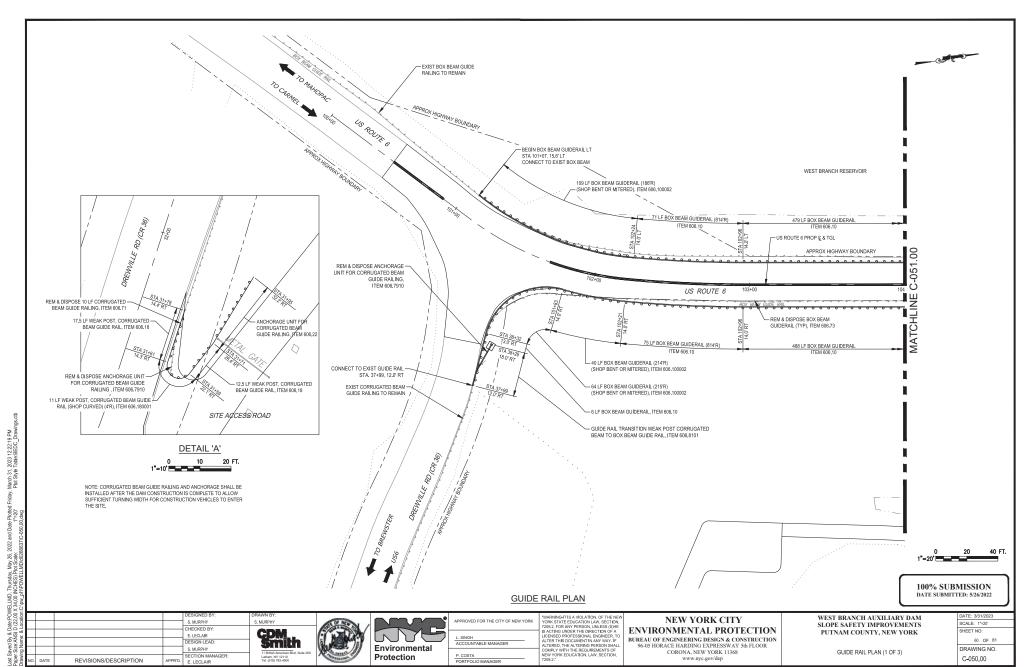
SOIL EROSION & SEDIMENT CONTROL DETAILS (2 OF 2)

SCALE: 1"=20" SHEET NO 59 OF 81 DRAWING NO. C-049.00

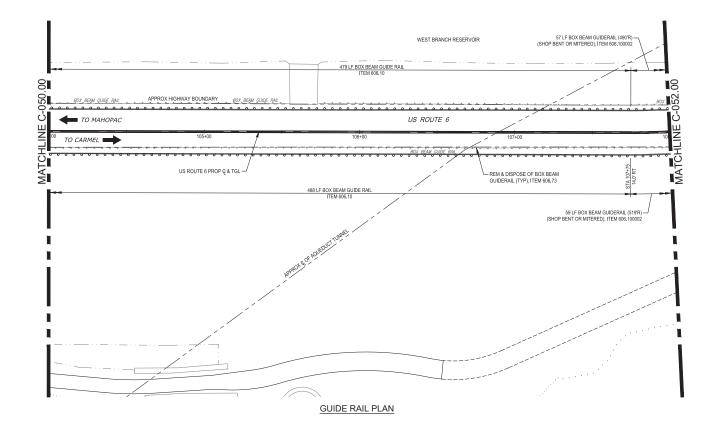
DATE: 3/31/2023

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, 2023 and Date Plotted:F 1"=20'









100% SUBMISSION DATE SUBMITTED: 5/26/2022

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ı					DESIGNED BY:	DRAWN BY:
1					S. MURPHY	S. MURPHY
1	_			_	CHECKED BY:	
1					E. LECLAIR	GDW
ı					DESIGN LEAD:	Smith
6					S. MURPHY	11 British American Blvd. Suite 200
I			DEL MOIONO DECODIDATION		SECTION MANAGER:	Letham, NY 12110
1	NO.	DATE	REVISIONS/DESCRIPTION	APPR'D.	E. LECLAIR	Tel: (518) 782-4500

Last Saved By & Date:POWELLMD. Thursday, May 26, 2022 and Date Plotted Friday, March 31, 2023 12.22.22 PM Paper Star-ANSI) DLG X3.400 (WHOUT STAR SPEC) PIOR Start Programmer, Programmer, Plot Style Table:BEDC_Drawn Dawng Numes, & Location:Chow pill POWELLMAN TO Start Programmer, Programmer, Plot Style Table:BEDC_Drawn Programmer, & Location:Chow pill Power Plot Style Table:BEDC_Drawn Plotter P

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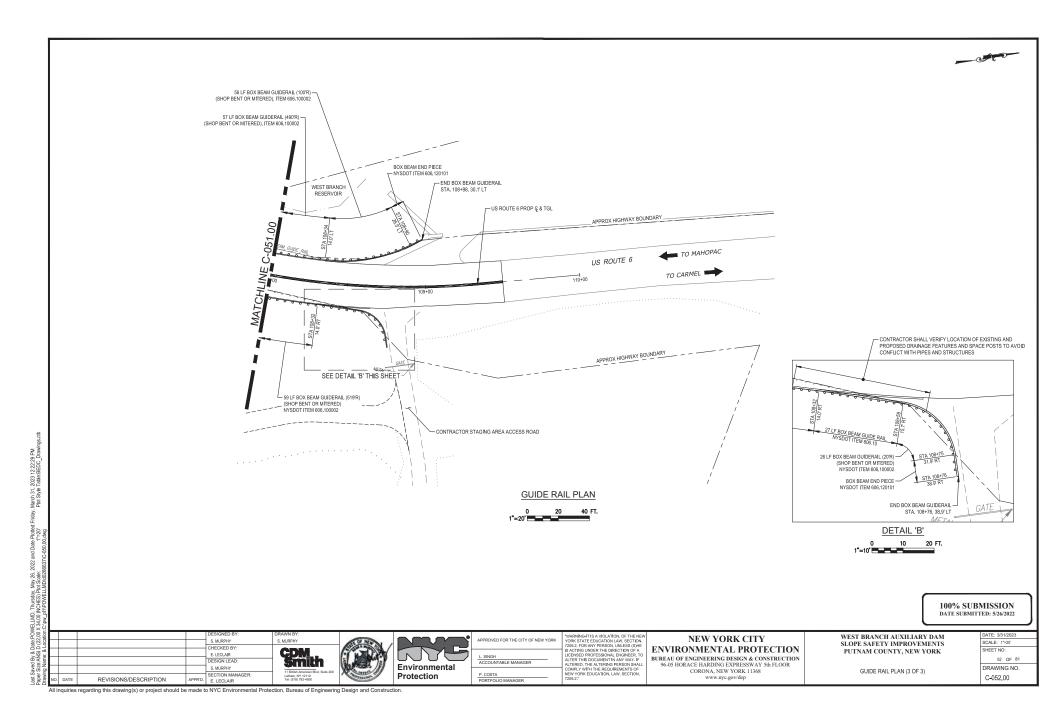
"WARNINGLITIS A VIOLATION, OF THE NEW YORK STATE EDUCATION LAW, SECTION, 7209.2, FOR ANY PERSON, LINESS (SHE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER HIS DOCUMENT HE PROVINCE, TO ALTER HIS DOCUMENT HE PROVINCE, TO ALTER HIS DOCUMENT HE PROVINCE, TO ALTER HIS DOCUMENT HE REQUIREMENTS OF NEW YORK EDUCATION, LAW, SECTION, 7208.2."

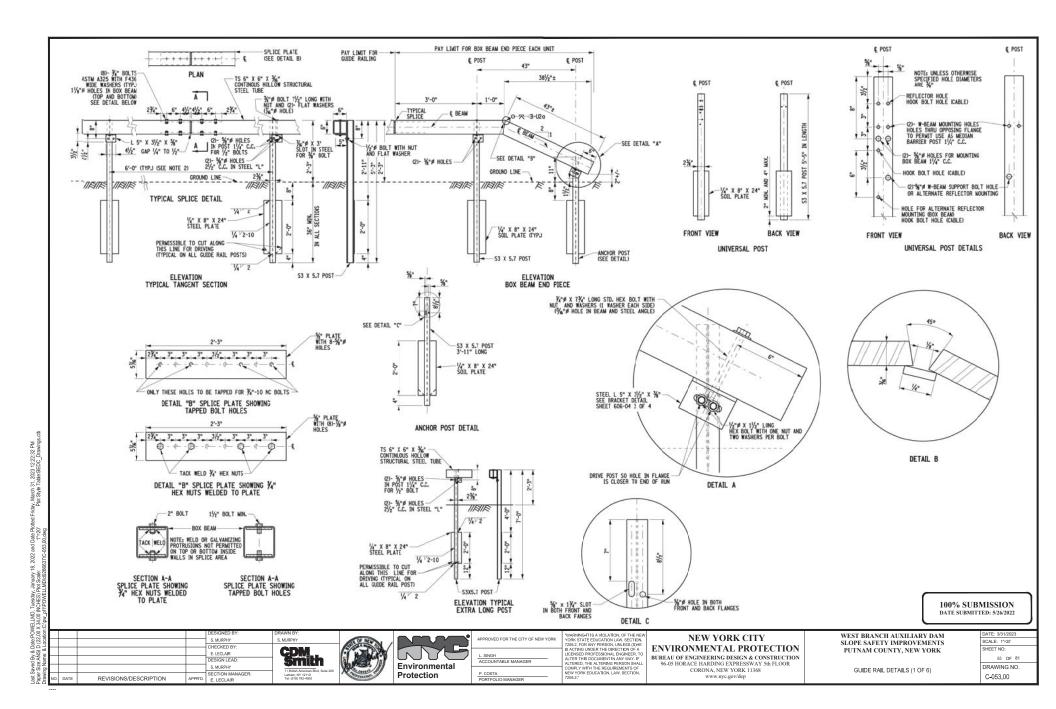
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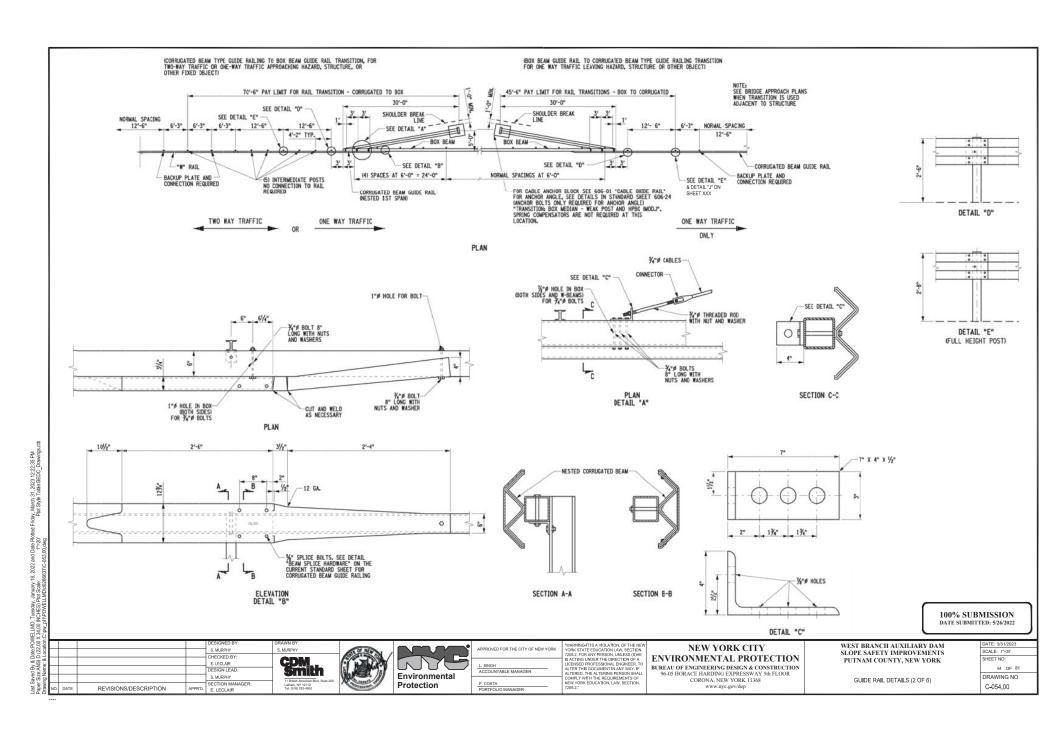
BUREAU OF ENGINEERING DESIGN & CONSTRUCTION 96-05 HORACE HARDING EXPRESSWAY 5th FLOOR CORONA, NEW YORK 11368 www.nyc.gov/dep WEST BRANCH AUXILIARY DAM SLOPE SAFETY IMPROVEMENTS PUTNAM COUNTY, NEW YORK

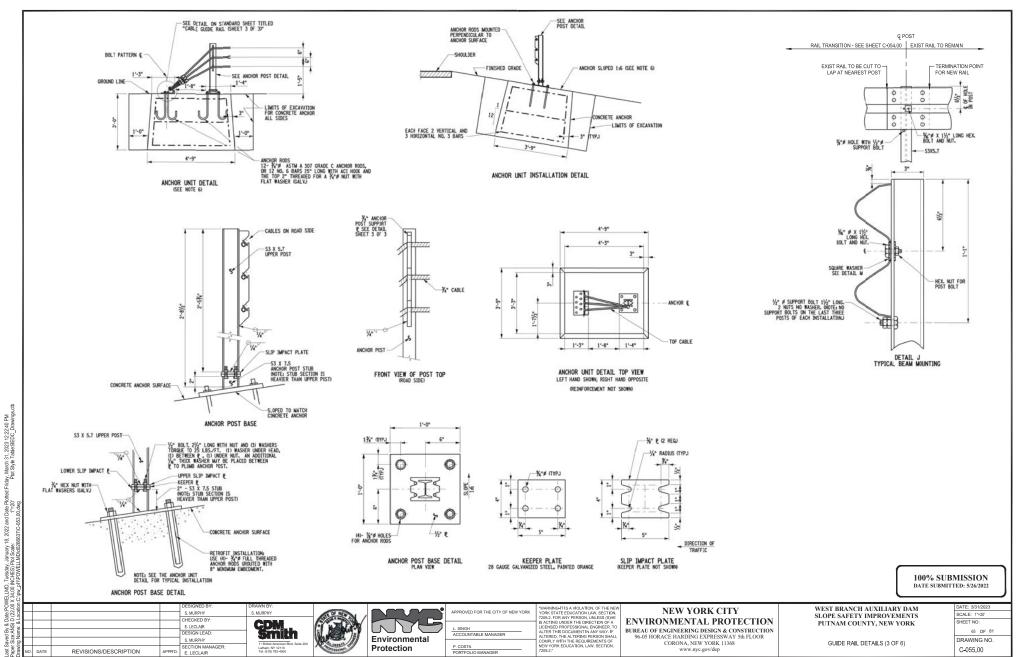
GUIDE RAIL PLAN (2 OF 3)

DATE: 3/31/2023
SCALE: 1"=20"
SHEET NO:
61 OF 81
DRAWING NO.
C-051 00









CORONA, NEW YORK 11368

DRAWING NO.

C-055.00

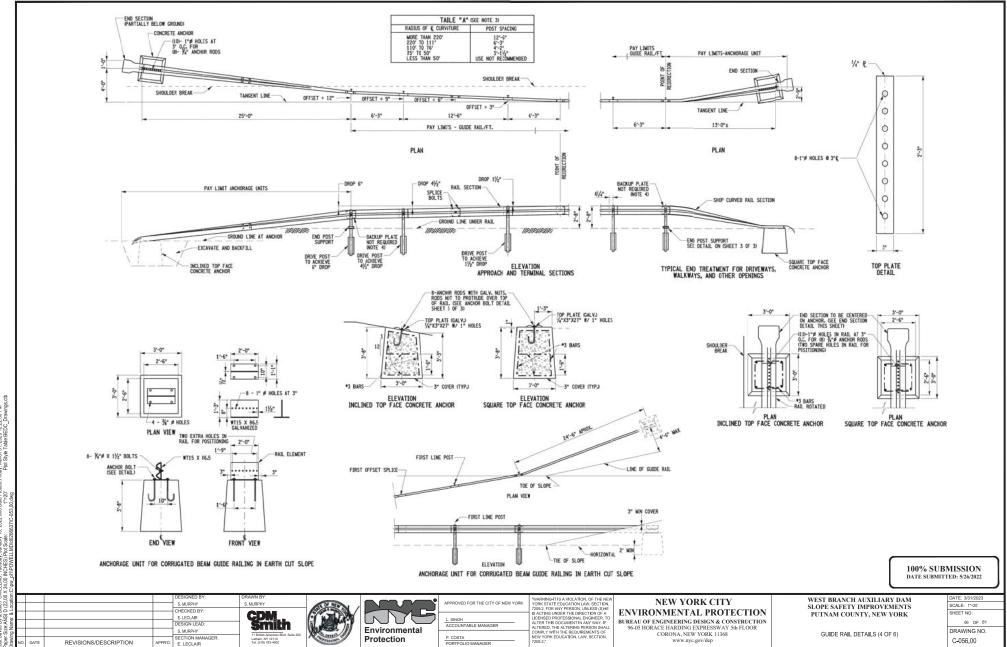
GUIDE RAIL DETAILS (3 OF 6)

Environmental

Protection

S, MURPHY

APPR'D. SECTION MAI E. LECLAIR



L. SINGH ACCOUNTABLE MANAGER

CORONA, NEW YORK 11368

Environmental

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66 OF 81

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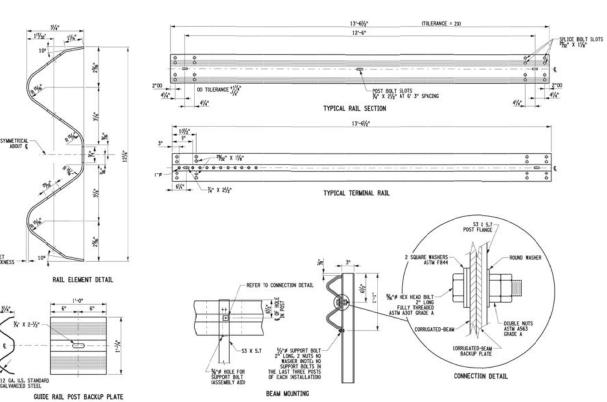
GUIDE RAIL DETAILS (4 OF 6)

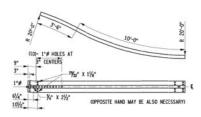
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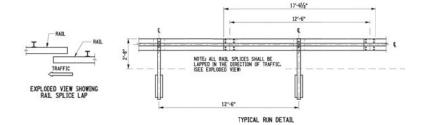




NOTE: OTHER RADII CONFIGURATIONS WHICH CAN BE DEMONSTRATED TO PROVIDE THE INSTALLATION SHOWN IN TYPICAL DRIVEWAY AND OPENING SECTION MAY BE APPROVED.

SHOP CURVED RAIL

- BEAMS TO BE ERECTED ON A RADIUS OF 150' OR LESS SHALL BE SHOP WORKED TO THE REQUIRED CURVATURE, AND PAYMENT FOR SUCH CURVED INCHIT WILL BE MADE LINIER THE APPROPRIATE ITEM. SEE SHOP CURVED RAIL, SEE TABLE "A" FOR POST SPACING.
- THE BALL MOUNTING WEIGHT OF ALL CUIDE RAIL PLACED BEHIND CLUBB RECARDLESS OF CURB HEIGHT OR SPEEDI SHALL BE MEASURED FROM THE PAYMENT SURFACE WHEN THE FFSET IS 12" OR LESS OR FROM THE GROUND SURFACE UNDER THE FACE OF THE MAIL WHEN THE GFSET IS GREATER THAM 12".
- ADDITIONAL POSTS REQUIRED TO REDUCE DEFLECTION DISTANCE OR BECAUSE OF HORIZONTAL CURVATURE SHALL NOT BE ATTACHED TO THE RUL ELEMENT, PAYMENT FOR ADDITIONAL POSTS WILL BE MADE IN ACCORDANCE WITH THE PAYMENT FACTORS FOR REDUCED POST SPACING FOR CORRUGATED BEAM IN TABLE 606-2 IN SECTION 606-5.01 OF THE STANDARD SPECIFICATIONS.
- 4. BACKUP PLATES ARE NOT REQUIRED AT END POST CONNECTIONS.



100% SUBMISSION DATE SUBMITTED: 5/26/2022

				DESIGNED BY:	DRAWN BY:
				S. MURPHY	S. MURPHY
Н				CHECKED BY:	
				E. LECLAIR	CDM_
				DESIGN LEAD:	Smith
				S, MURPHY	11 British American Blvd, Suite 200
NO.	DATE	REVISIONS/DESCRIPTION	APPR'D.	SECTION MANAGER: E. LECLAIR	Latham, NY 12110 Tel: (518) 782-4500





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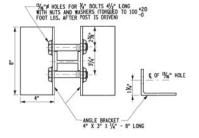
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WEST BRANCH AUXILIARY DAM SLOPE SAFETY IMPROVEMENTS PUTNAM COUNTY, NEW YORK

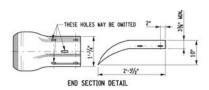
GUIDE RAIL DETAILS (5 OF 6)

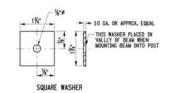
DATE: 3/31/2023
SCALE: 1"=20"
SHEET NO:
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DRAWING NO.
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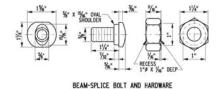


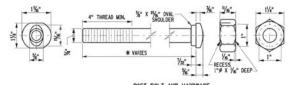


END POST SUPPORT DETAIL.









POST BOLT AND HARDWARE

* PO	ST	BOLT	LENGT	H A	IRE.	SHOWN	08
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100% SUBMISSION DATE SUBMITTED: 5/26/2022

BEAM-SPLICE BOLT AND HARDWARE BEAM-SPLICE BOLT AND HARDWARE BEAM-SPLICE BOLT AND HARDWARE SIMILARITY CHECKED BY: S. MURRHY CHECKED BY: S. MURRH	_							Ŧ
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S. MURPHY		MITHER	S. MURPHY					$^{+}$
11 Bitish American Blot, Sul 27 de 54 NO. DATE REVISIONS/DESCRIPTION APPRD. E. LECLAIR Luthers, NY 12/10 106 (518) 782-4500	ne 200	Letham, NY 12110	SECTION MANAGER:	APPR'D	ESCRIPTION	DATE REVISIONS/DES	DATE	+



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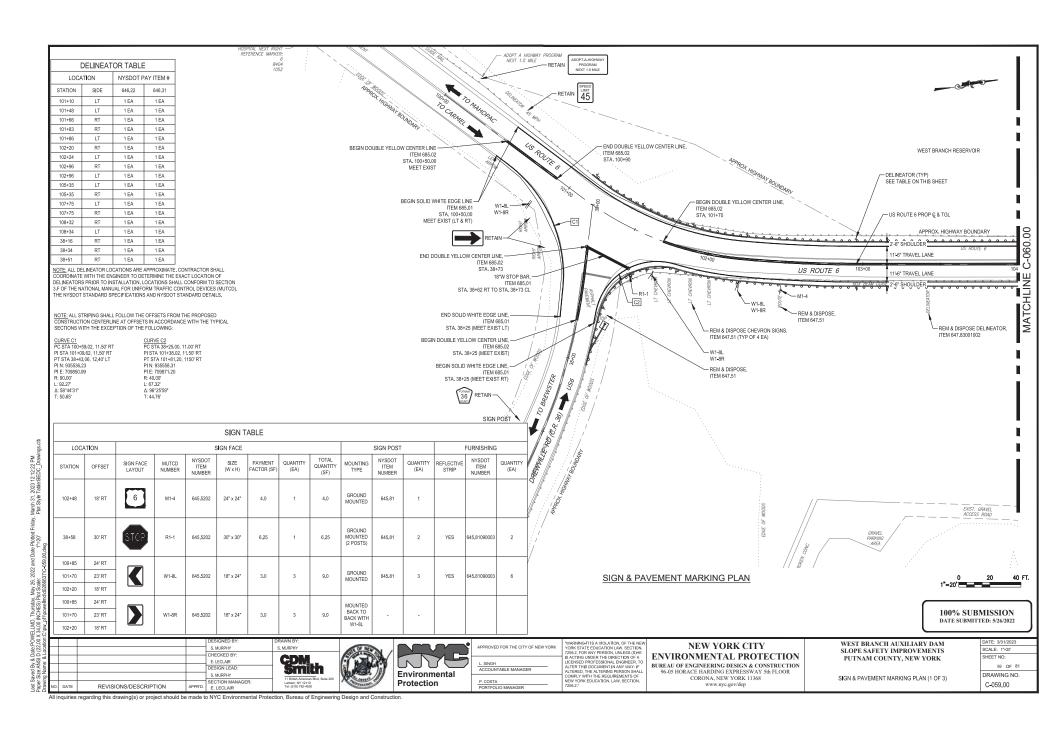
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ENVIRONMENTAL PROTECTION
BUREAU OF ENGINEERING DESIGN & CONSTRUCTION

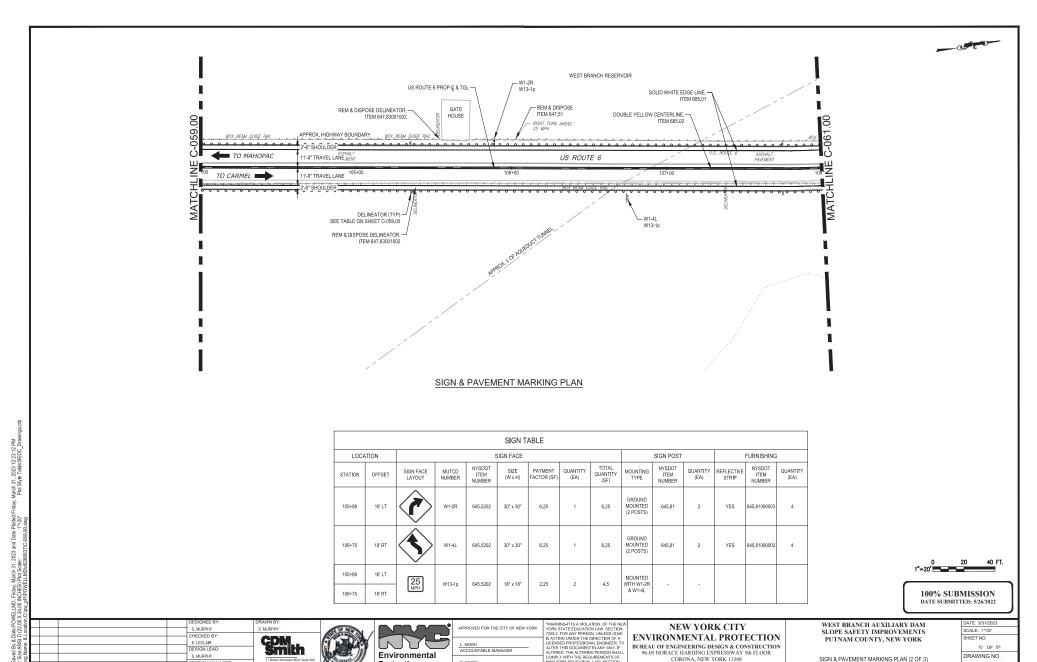
CORONA, NEW YORK 11368 www.nyc.gov/dep

WEST BRANCH AUXILIARY DAY
SLOPE SAFETY IMPROVEMENT
PUTNAM COUNTY, NEW YORK

GUIDE RAIL DETAILS (6 OF 6)

DATE: 3/31/2023
SCALE: 1"=20"
SHEET NO:
68 OF 81
DRAWING NO.
C-058.00





S. MURPHY CHECKED BY S, MURPHY APPR'D. SECTION MAN

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CORONA, NEW YORK 11368 www.nyc.gov/dep

WEST BRANCH AUXILIARY	DAM
SLOPE SAFETY IMPROVEMI	ENTS
PUTNAM COUNTY, NEW YO	DRK

SIGN & PAVEMENT MARKING PLAN (2 OF 3)

DATE: 3/31/2023
SCALE: 1"=20"
SHEET NO:
70 OF 81
DRAWING NO.
C-060.00

S MURPHY

100% SUBMISSION DATE SUBMITTED: 5/26/2022

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			S. MURPHY	DRAWN BY: S. MURPHY
			S. MURPHY CHECKED BY:	
			S. MURPHY	
NO NO			S. MURPHY CHECKED BY: E. LECLAIR	



ď	APPROVED FOR THE CITY OF NEW YORK
7	L. SINGH ACCOUNTABLE MANAGER
	P COSTA

SIGN & PAVEMENT MARKING PLAN

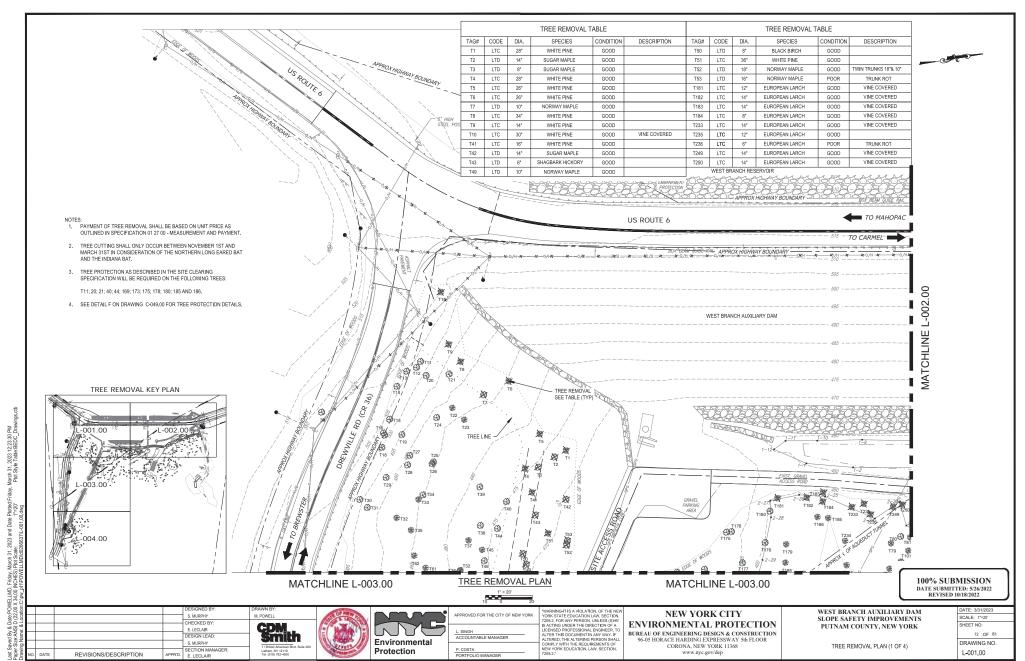
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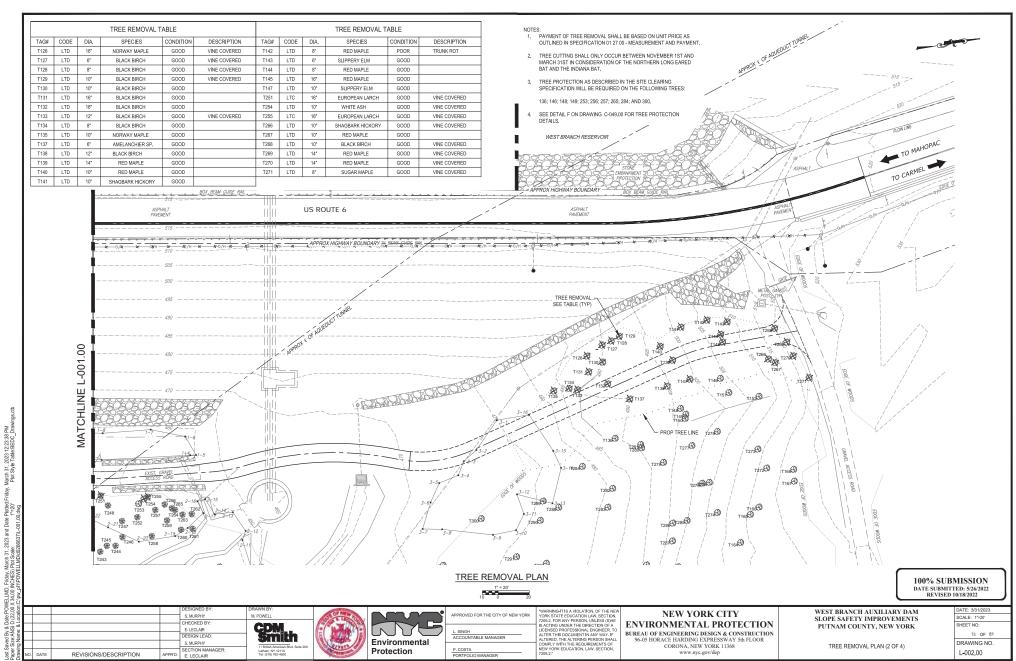
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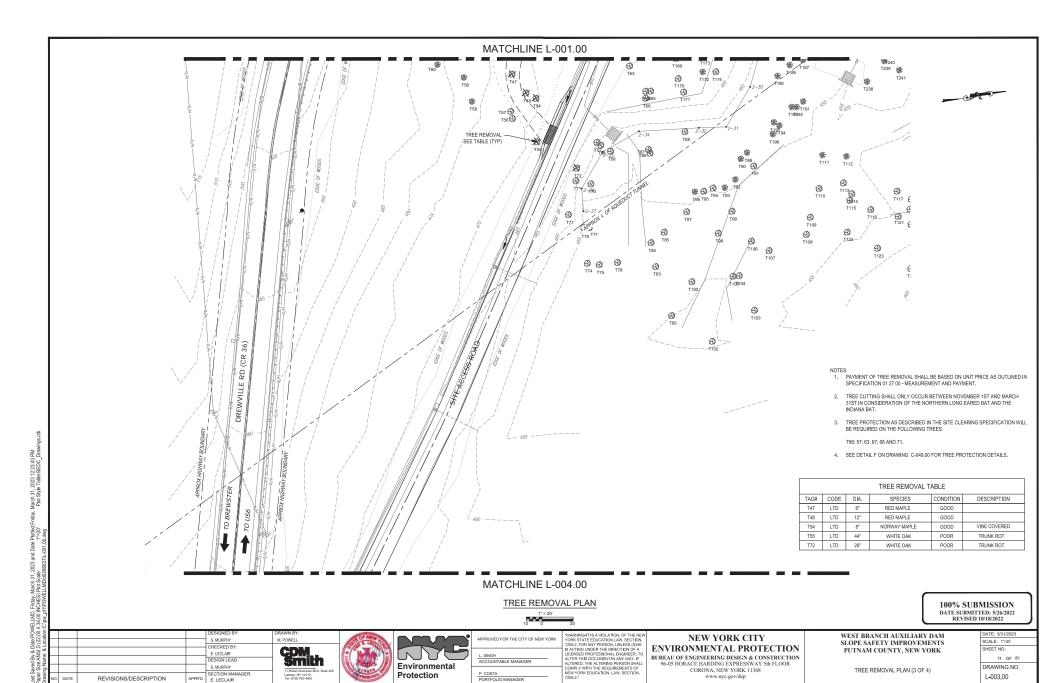
WEST BRANCH AUXILIARY DAM SLOPE SAFETY IMPROVEMENTS PUTNAM COUNTY, NEW YORK

SIGN & PAVEMENT MARKING PLAN (3 OF 3)

DATE: 3/3/1/2023
SCALE: 1"=20"
SHEET NO:
71 OF 81
DRAWING NO.
C-061.00







L. SINGH ACCOUNTABLE MANAGER

DRAWING NO.

L-003.00

TREE REMOVAL PLAN (3 OF 4)

Environmental

Protection

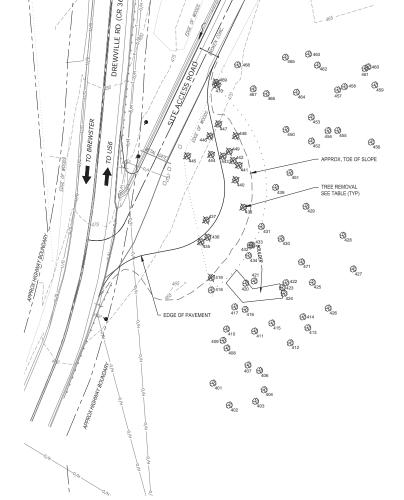
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S, MURPHY

APPR'D. E. LECLAIR

REVISIONS/DESCRIPTION

MATCHLINE L-003.00



TREE REMOVAL TABLE						
TAG#	CODE	DIA.	SPECIES	CONDITION	DESCRIPTION	
T419	LTD	15"	SUGAR MAPLE	GOOD		
T435	LTD	6*	SUGAR MAPLE	GOOD		
T436	LTD	28"	SUGAR MAPLE	POOR	TRUNK ROT	
T437	LTD	5"	SUGAR MAPLE	GOOD		
T438	LTD	5*	SUGAR MAPLE	GOOD		
T440	LTD	8"	RED MAPLE	GOOD		
T441	LTD	16"	WHITE ASH	GOOD		
T442	LTD	5*	HOP HORNBEAM	GOOD		
T443	LTD	4"	SUGAR MAPLE	GOOD		
T444	LTD	9*	SUGAR MAPLE	GOOD		
T445	LTD	7*	AMERICAN ELM	GOOD		
T446	LTD	8"	HOP HORNBEAM	GOOD		
T447	LTD	8*	SUGAR MAPLE	GOOD		
T448	LTD	11"	RED MAPLE	GOOD		
T449	LTD	23"	WHITE ASH	GOOD		
T469	LTD	6*	AMERICAN ELM	GOOD		
T470	LTD	10"	RED MAPLE	GOOD		

- PAYMENT OF TREE REMOVAL SHALL BE BASED ON UNIT PRICE AS OUTLINED IN SPECIFICATION 01 27 00 MEASUREMENT AND PAYMENT.
- 2. TREE CUTTING SHALL ONLY OCCUR BETWEEN NOVEMBER 1ST AND MARCH 31ST IN CONSIDERATION OF THE NORTHERN LONG EARED BAT AND THE INDIANA BAT.
- 3. TREE PROTECTION AS DESCRIBED IN THE SITE CLEARING SPECIFICATION WILL BE REQUIRED ON THE FOLLOWING TREES:

T418; 420; 421; 431; 432; 433; 434; 439; 450; 451; 466; 467 AND 468.

4. SEE DETAIL F ON DRAWING C-049.00 FOR TREE PROTECTION DETAILS.

TREE REMOVAL PLAN



100% SUBMISSION DATE SUBMITTED: 5/26/2022 REVISED 10/18/2022

\circ						
Location					DESIGNED BY:	DRAWN BY:
S					S. MURPHY	M. POWELL
š	Н				CHECKED BY:	ADM
	ш				E. LECLAIR	GPWI
Name:					DESIGN LEAD:	smith
ď					S, MURPHY	11 British American Blvd. Suite 200
Drawing	NO.	DATE	REVISIONS/DESCRIPTION	APPR'D.	SECTION MANAGER: E. LECLAIR	Latham, NY 12110 Tel: (518) 782-4500





ď	APPROVED FOR THE CITY OF NEW YORK
7	L. SINGH ACCOUNTABLE MANAGER
	P. COSTA

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BUREAU OF ENGINEERING DESIGN & CONSTRUCTION 96-05 HORACE HARDING EXPRESSWAY 5th FLOOR CORONA, NEW YORK 11368 www.nyc.gov/dep

WEST BRANCH AUXILIARY DAM SLOPE SAFETY IMPROVEMENTS PUTNAM COUNTY, NEW YORK

TREE REMOVAL PLAN (4 OF 4)

DATE: 3/31/2023
SCALE: 1"=20"
SHEET NO:
75 OF 81
DRAWING NO.
L-004.00

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GENERAL INSTRUMENT OR FUNCTION SYMBOLS

SHARED SHARED	DISPLAY/ CONTROL			
PRIMARY SECONDARY CHOICE		COMPUTER SOFTWARE	DISCRETE	LOCATION AND ACCESSIBILITY
			\bigcirc	FIELD MOUNTED AND NORMALLY OPERATOR ACCESSIBLE
		\ominus	\ominus	PRIMARY CONTROL PANEL MOUNTED AND NORMALLY OPERATOR ACCESSIBLE
		⟨-}	\bigcirc	PRIMARY CONTROL PANEL MOUNTED AND NOT NORMALLY OPERATOR ACCESSIBLE
		\ominus	\ominus	SECONDARY CONTROL PANEL MOUNTED AND NORMALLY OPERATOR ACCESSIBLE
		⟨⟩	\odot	SECONDARY CONTROL PANEL MOUNTED AND NOT NORMALLY OPERATOR ACCESSIBLE

INSTRUMENTS SHARING COMMON HOUSING

PILOT LIGHT

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INSTRUMENT LINE SYMBOLS

----- ELECTRICAL SIGNAL -----V----V-----VENDOR SUPPLIED CABLE

______ COMMUNICATION LINK - RADIO COMMUNICATION LINK - CELLULAR

ELECTRICAL SOURCES

ES--- ELECTRICAL SOURCE (SOLAR POWER)

INSTRUMENTATION FUNCTION CODE

	FIRST	LETTERS		SUCCEEDING LETTERS	
_	COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5
_	MEASURED/INITIATING VARIABLE	VARIABLE MODIFIER	READOUT/PASSIVE FUNCTION	OUTPUT/ACTIVE FUNCTION	FUNCTION MODIFIER
Α	ANALYSIS		ALARM		
	BURNER, COMBUSTION		USER'S CHOICE	USER'S CHOICE	USER'S CHOICE
c	USER'S CHOICE		002110 0110102	CONTROL	CLOSED
D	USER'S CHOICE	DIFFERENCE, DIFFERENTIAL			DEVIATION
Ε	VOLTAGE		SENSOR, PRIMARY ELEMENT		
F	FLOW, FLOW RATE	RATIO			
G	USER'S CHOICE		GLASS, GAUGE, VIEWING DEVICE		
Н	HAND				HIGH
Т	CURRENT		INDICATE		
	POWER		SCAN		
K	TIME, SCHEDULE	TIME RATE OF CHANGE		CONTROL STATION	
	LEVEL		LIGHT		LOW
	MOISTURE				MIDDLE, INTERMEDIATE
N	USER'S CHOICE		USER'S CHOICE	USER'S CHOICE	USER'S CHOICE
0	USER'S CHOICE		ORIFICE, RESTRICTION		OPEN
Р	PRESSURE		POINT (TEST CONNECTION)		
0	QUANTITY	INTEGRATE, TOTALIZE	INTEGRATE, TOTALIZE		
R	RADIATION	,	RECORD		RUN
S	SPEED, FREQUENCY	SAFETY		SWITCH	STOP
Ť	TEMPERATURE			TRANSMIT	
Ü	MULTIVARIABLE		MULTIFUNCTION	MULTIFUNCTION	
٧	VIBRATION, MECHANICAL, ANALYSIS			VALVE, DAMPER, LOUVER	
w	WEIGHT, FORCE		WELL, PROBE		
х	UNCLASSIFIED (1)	X-AXIS	ACCESSORY DEVICES, UNCLASSIFIED (1)	UNCLASSIFIED (1)	UNCLASSIFIED (1)
Υ	EVENT, STATE, PRESENCE	Y-AXIS	, ,	AUXILIARY DEVICES	
z	POSITION, DIMENSION	Z-AXIS, SAFETY INSTRUMENT SYSTEM		DRIVER, ACTUATOR, UNCLASSIFIED, FINAL CONTROL ELEMENT	
_		TABLE NOTES:			

(1) WHEN USED SYMBOL OR SIGNAL LINE IS ANNOTATED.

PRIMARY ELEMENTS



WEIR LEVEL FLOW MONITOR



FLUME LEVEL FLOW MONITOR



LEVEL MONITOR



VIBRATING WIRE PIEZOMETER

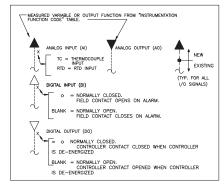


VIBRATING WIRE INCLINOMETER

TEMPERATURE ELEMENT (TYPE AS SHOWN)

RESISTANCE TEMPERATURE DETECTOR THERMISTOR THERMOCOUPLE

I/O SIGNALS



SYSTEM ARCHITECTURE SYMBOLS

DL

PS	POWER SUPPLY
СМ	CELLULAR MODEM
RADIO	RADIO
**	YAGI ANTENNA

DATALOGGER

 $((\bullet))$ OMNI DIRECTIONAL ANTENNA

SOLAR PANEL

GENERAL NOTES

1. THIS LEGEND APPLIES TO P&IDS ONLY AND MAY DIFFER FROM LEGENDS FOR OTHER SHEETS.

2. IN GENERAL THIS LEGEND SHEET AND THE PAUDS ARE BASED ON THE INTERNATIONAL SOCIETY OF AUTOMATION (ISA) STANDARDS AND RECOMMENDED PRACTICES FOR INSTRUMENTATION AND CONTROL. SOME MODIFICATIONS, ADDITIONS AND ALTERATIONS HAVE BEEN MADE AS REQUIRED TO ACCOMMODALE PROLECT REQUIREMENTS.

3. SOME PROCESS ITEMS SUCH AS EQUIPMENT ISOLATION VALVES, BYPASS LINES, ETC., WHICH ARE NOT CRITICAL FOR AN UNDERSTANDING OF THE INSTRUMENTATION FUNCTIONS ARE NOT SHOWN ON THE P&IDS.

4. SEE ELECTRICAL AND MECHANICAL SHEETS AND SPECIFICATIONS FOR ADDITIONAL CONTROL AND INTERLOCK REQUIREMENTS.

GENERAL ABBREVIATIONS

ACK	ACKNOWLEDGE
ADH	HARDWARE ALARM DIALER
Al	ANALOG INPUT
AO	ANALOG OUTPUT
ATS	AUTOMATIC TRANSFER SWITCH
CNV	PROTOCOL CONVERTER
	CENTRAL PROCESSING UNIT
DI	DIGITAL OR DISCRETE INPUT
DO FC	DIGITAL OR DISCRETE OUTPUT
FDES	FAIL CLOSED FIELD DEVICE ETHERNET SWITCH
	FIBER OPTIC MEDIA CONVERTER
	FAIL OPEN OR FIBER OPTIC
	FIBER OPTIC PATCH PANEL
HIM	HUMAN INTERFACE MODULE
HMI	HUMAN MACHINE INTERFACE
IT	INFORMATION TECHNOLOGY
LCP	LOCAL CONTROL PANEL
MCC	MOTOR CONTROL CENTER
MDI	INTERNET MODEM
MDR	RADIO MODEM
MDV	VOICE MODEM
MES	MANAGED ETHERNET SWITCH
MS	MOTOR STARTER
NC NC	MASTER TELEMETRY UNIT NORMALLY CLOSED
NO NO	NORMALLY OPEN
OIT	OPERATOR INTERFACE TERMINAL
	OPEN PLATFORMS COMMUNICATIONS
	OPERATOR WORKSTATION
PLC	PROGRAMMABLE LOGIC CONTROLLER
PS	POWER SUPPLY
RIO	REMOTE INPUT/OUTPUT
RTR	ROUTER
RTU	REMOTE TERMINAL UNIT
	SUPERVISORY CONTROL AND DATA ACQUISITION
SPD	SURGE PROTECTION DEVICE
SRV	SERVER
TEX	TELEPHONE EXCHANGE
UES	UNMANAGED ETHERNET SWITCH UNINTERRUPTIBLE POWER SUPPLY
	UNIVERSAL SERIAL BUS
UA O2B	ULTRA VIOLET
VFD	VARIABLE FREQUENCY DRIVE
VI D	VARIABLE TREGOENOT DRIVE

100% SUBMISSION DATE SUBMITTED: 5/26/2022

P. JENKINS IENKINS. CHECKED B' J. LAROSA DESIGN LEAD P. JENKINS APPR'D. E. LECLAIR REVISIONS/DESCRIPTION



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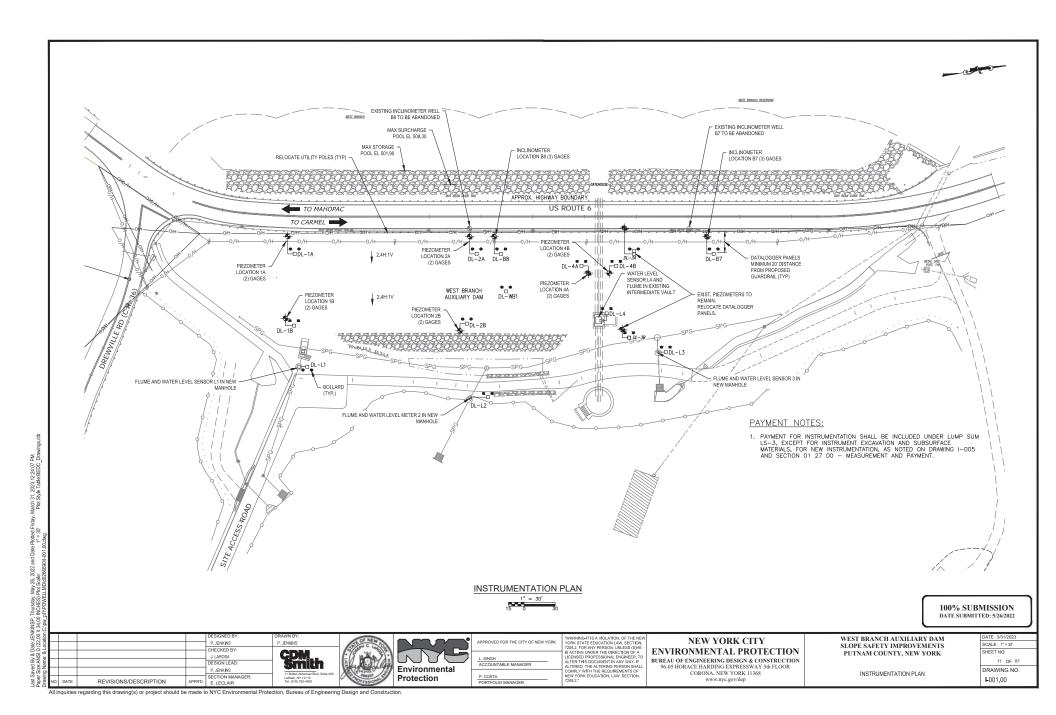
NEW YORK CITY ENVIRONMENTAL PROTECTION

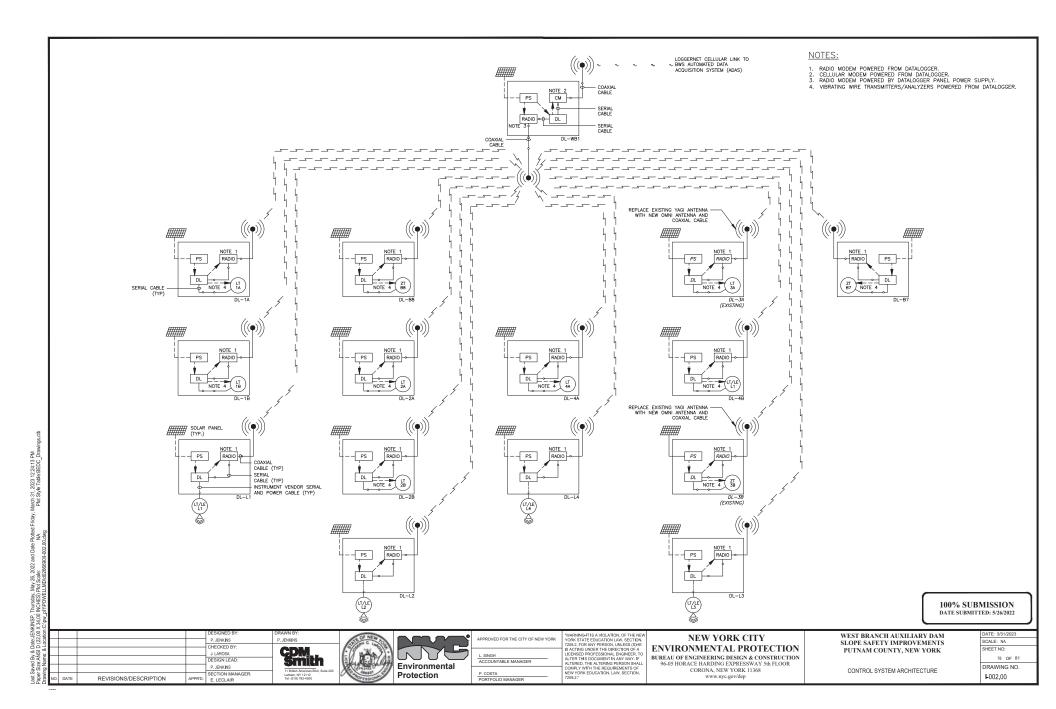
BUREAU OF ENGINEERING DESIGN & CONSTRUCTION 96-05 HORACE HARDING EXPRESSWAY 5th FLOOR CORONA, NEW YORK 11368

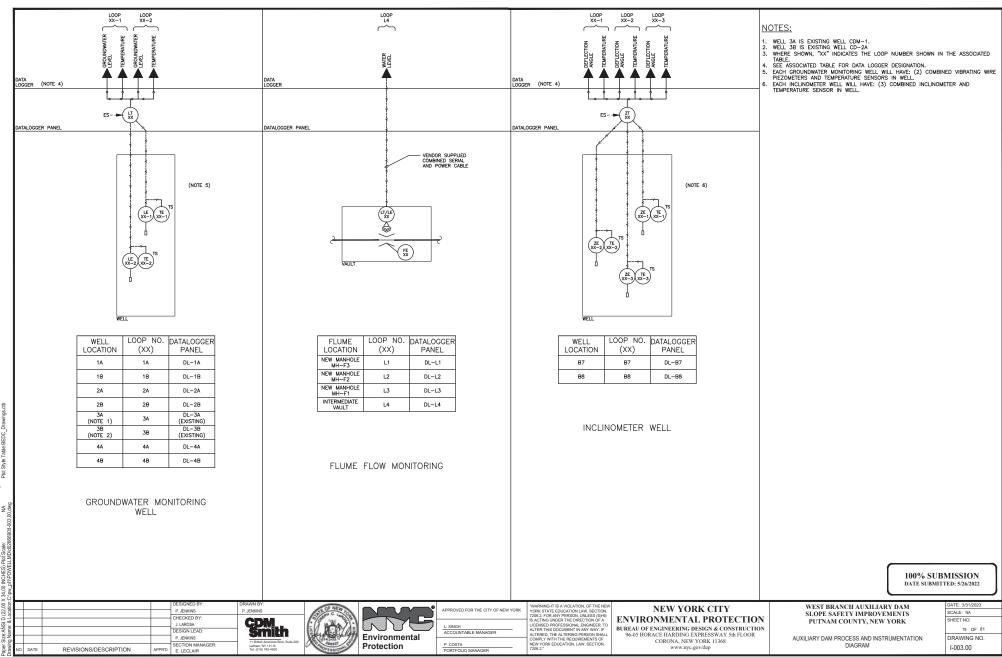
WEST BRANCH AUXILIARY DAM SLOPE SAFETY IMPROVEMENTS PUTNAM COUNTY, NEW YORK

INSTRUMENTATION LEGEND

*
DATE: 3/31/2023
SCALE: NA
SHEET NO:
76 OF 81
DRAWING NO.
GI-001.00





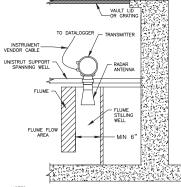


Sawed By & Date. JENKINSP, Thursday, May 28, 2022 and Date Plotted Friday, March 31, 2023 12:24:17 PM Staze Money B, Date 200 X 34, UNIVEES IPE Staze Money B, Local Control C

- SOLAR PANEL (20 WATT MIN) SHALL BE RATED HIGH ENOUGH TO PROVIDE THE PROPER POWER TO SUFFICIENTLY CHARGE THE BATTERY AND POWER THE MISTALLED EQUIPMENT.
 HIGH DON-SIENT SURGE ARRESTOR MODULE SHALL BE RATED FOR MINISTRY SURGE POWERSTOR SHALL BE USED IN ANY LOCATIONS WHERE A CABLE EXISTS OR ENTERS CONDUIT OR WEATHER PROOF ENCLOSURES.
 DATALOGGER ENCLOSURE SHALL HOUSE THE DEVICES SHOWN ON THE CONTROL SYSTEM ARCHITECTURE AND PAID.

WELL INSTRUMENTATION, CASING, AND DATALOGGER DETAIL





NOTES:

- MOUNT SENSOR IN STILLING WELL LEAVING WELL OPEN TO ATMOSPHERE.
 FLUME STILLING WELL TO BE METAL PLATED.
 SEE CIVIL DRAWINGS FOR FLUME DETAIL.

RADAR LEVEL (FLUME STILLING WELL INSTALL)



100% SUBMISSION DATE SUBMITTED: 5/26/2022

		WELL	OUTDOOR USE: OU
		DESIGNED BY:	DRAWN BY:
		P. JENKINS	P. JENKINS
	_	CHECKED BY:	CDM
	+	J. LAROSA	
		DESIGN LEAD:	
	_		3111161
		P. JENKINS SECTION MANAGER:	11 British American Blvd, Suite 200 Latham, NY 12110



ď	APPROVED FOR THE CITY OF NEW YORK
7	L. SINGH ACCOUNTABLE MANAGER
	P. COSTA

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NEW YORK CITY ENVIRONMENTAL PROTECTION

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WEST BRANCH AUXILIARY DAM SLOPE SAFETY IMPROVEMENTS PUTNAM COUNTY, NEW YORK

INSTRUMENTATION DETAILS 1

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80 OF 81
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COVERS FOR NEW STANDPIPES SHALL ACCOMODATE A PADLOCK AND SHALL INCLUDE A RUBBER GASKET OR BE OTHERWISE SEALED AGAINST THE EXTERNAL ENVIRONMENT.

PROTECTIVE STELL CASHONS SHALL BE A SCHEDULE 40 PIPE, AND BE COATED WITH RUST—INHIBITING PRIMER AND PAINT, OR OTHERWISE PROTECTED AGAINST CORROSION.

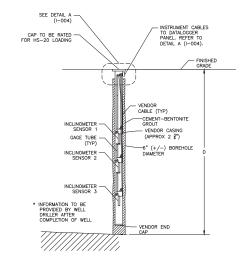
NELL DEPTHS SHOWN ARE APPROXIMATE BASED ON ELEVATIONS SHOWN ON THE CIVIL DRAWINGS. VALIDATE ELEVATION AND ADUST CORP. AND AMERICAN INSTRUMENT INSTALLATION ELEVATIONS

NIVO (2) BOLLARDS REQUIRED PER WELL LOCATION. BOLLARD TO BE SET 2 FEET TO THE UPHILL SIDE OF 3" WELL PIPE.

WELL	WELL DEPTH D (FT)	PIEZOMETER 1 DEPTH (FT)	PIEZOMETER 2 DEPTH (FT)
1A	47	35	45
1B	23	15	20
2A	45	35	43
2B	20	12	17
3A	EXISTING	EXISTING	EXISTING
3B	EXISTING	EXISTING	EXISTING
4A	35	25	33
4B	35	25	33

PAYMENT NOTES:

1. PAYMENT FOR INSTRUMENT EXCAVATION AND SUBSURFACE MATERIALS, FOR NEW INSTRUMENTS, SHALL BE PAID BY UNIT PRICE AS DETAILED IN SECTION 01 27 00 — MEASUREMENT AND PAYMENT. THE REMAINING INSTRUMENTATION WORK, INCLUDING WORK AND MATERIALS FOR THE EXISTING INSTRUMENTATION, SHALL BE PAID BY LUMP SUM LS-3.



NOTES:

WELL DEPTHS SHOWN ARE APPROXIMATE BASED ON ELEVATIONS SHOWN ON THE CIVIL DRAWINGS. VALIDATE ELEVATION AND ADJUST DEPTH TO MAINTAIN INSTRUMENT INSTALLATION ELEVATIONS.

INCLINOMETER	CASING DEPTH D (FT)	SENSOR 1 DEPTH (FT)	SENSOR 2 DEPTH (FT)	SENSOR 3 DEPTH (FT)
B7	50	10	25	40
B8	50	10	25	40



100% SUBMISSION DATE SUBMITTED: 5/26/2022

Jraw Draw			1A	47	35	
4:29 F			1B	23	15	
23 12:2 able:Bl			2A	45	35	_
31, 20; Style T			2B	20	12	_
March Plot			3A	EXISTING	EXISTING	_
riday.			3B	EXISTING	EXISTING	_
lotted:F VA dwg			4A	35	25	_
Date P			4B	35	25	_
Last Sawd By & Dele JENKINSP, Thursday, May 26, 2022 and Date Plothed Friday, March 31, 2023 12.24.29 PM Pagnet StackNIS D (22.00 X 54.00 INCNES) PMC Scale: NA PROPERTY OF THE POWELLIND 01/2006/500-0409					CR MONITORING ELL C	
te:JE 22.01 ocatio				P. JENKINS	P. JENKINS	
aved By & Da Size:ANSI D I ig Name: & Lo				CHECKED BY: J. LAROSA DESIGN LEAD: P. JENKINS	CDM Smith	
Last S Paper Drawir	NO. DATE	REVISIONS/DESCRIPTIO	N APPR'D.	SECTION MANAGER: E. LECLAIR	Latham, NY 12110 Tel: (518) 782-4500	



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Environmental	L. SING
Protection	P. COS

OVED FOR THE CITY OF NEW YORK	WARNING-IT IS A VIOLATION, OF THE IN- YORK STATE EDUCATION LAW, SECTION 7208.2, FOR MAY PERSON, UNLESS (SYME IS ACTING UNDER THE DIRECTION OF A LICENSED PROCESSIONAL ENDINGER: TO ALTER THIS DOCUMENT AND ANY ANY ALTER THIS DOCUMENT AND ANY ANY COMPLY WITH THE REQUIREMENTS OF NEW YORK EDUCATION, LAW, SECTION, 2003 279
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WEST BRANCH AUXILIARY DAM	1
SLOPE SAFETY IMPROVEMENTS	S
PUTNAM COUNTY, NEW YORK	

INSTRUMENTATION DETAILS 2

DATE: 3/31/2023
SCALE: NA
SHEET NO:
81 OF 81
DRAWING NO.
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