

CATTARAUGUS COUNTY

DEPARTMENT OF PUBLIC WORKS

ADDENDUM NO. 1

FOR

COUNTY ROAD 2 (Cottage Rd & Edwards Corners Rd) - RESURFACING FROM NASHVILLE ROAD TO STATE ROUTE 39

ADDENDUM DATE: 18 MAY 2023

Changes to the plans and bid proposal booklet:

Plans: Sheet 5 superseded by Sheet 5 A1 of 37: GNN-01 project phasing updated to reflect binder course over deep milled area

Plans: Sheet 6 superseded by Sheet 6 A1 of 37: TYP-01 changes made to typical sections, addition of binder layer over deep milled area

Plans: Sheet 37 superseded by Sheet 37 A1 of 37: In the Estimate of Quantities, the following pay item changes have been made:

ITEM NO.	DESCRIPTION	UNIT	OLD QTY	NEW QTY
304.15	SUBBASE COURSE, OPTIONAL TYPE	CY	2,073	19
404.198901	19 F9 BINDER COURSE ASPHALT, 80 SERIES COMPACTION	TON	8.76	2,695.43
407.0103	STRAIGHT TACK COAT	GAL	2,450	3,330

General Provisions & Bid Proposal Booklet: BIDDERS ARE INSTRUCTED TO REPLACE THE FOLLOWING BID SHEETS:

- Pages A-3 and A-4 are replaced by **A3 R1 – A4 R1**.
Update quantities for 304.15, 404.198901 and 407.0103 as noted in the table above.

**REPLACE SHEETS 5, 6, 37 IN YOUR PLAN SET, AND THE ABOVE PROPOSAL PAGES.
PLEASE BE GOVERNED ACCORDINGLY WHEN SUBMITTING BIDS**

**ALL BIDDERS MUST RETURN THIS ADDENDUM WITH THE BID AND RECORD THIS ADDENDUM
IN SECTION B ON SHEET B-2 IN THE BID PROPOSAL BOOK.**

**IN ADDITION, PLEASE ACKNOWLEDGE RECEIPT OF ADDENDUM 1 IMMEDIATELY BY
PROVIDING THE INFORMATION BELOW AND FAXING THIS SHEET TO:**

Cattaraugus County
Department of Public Works
(716) 938-2754

Company Name: _____ Signed: _____

Date: _____ Printed Name of Signatory: _____

**CATTARAUGUS COUNTY
COUNTY ROAD 2 - TOWNS OF DAYTON AND PERRYSBURG**

A-3 R1

ITEM NUMBER	ESTIMATE OF QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT OF BID	
			DOLLARS	CENTS	DOLLARS	CENTS
206.0201	426 CY	TRENCH AND CULVERT EXCAVATION FOR: _____ DOLLARS _____ CENTS				
209.100101	111 SY	MULCH - TEMPORARY FOR: _____ DOLLARS _____ CENTS				
209.2301	184 LF	SEDIMENT FILTER LOG-TEMPORARY, 12" FOR: _____ DOLLARS _____ CENTS				
304.15	19 CY	SUBBASE COURSE, OPTIONAL TYPE FOR: _____ DOLLARS _____ CENTS				
404.098301	4,233.78 TON	9.5 F3 TOP COURSE WMA, 80 SERIES COMPACTION FOR: _____ DOLLARS _____ CENTS				
404.198901	2,695.43 TON	19 F9 BINDER COURSE WMA, 80 SERIES COMPACTION FOR: _____ DOLLARS _____ CENTS				

**CATTARAUGUS COUNTY
COUNTY ROAD 2 - TOWNS OF DAYTON AND PERRYSBURG**

A-4 R1

ITEM NUMBER	ESTIMATE OF QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT OF BID	
			DOLLARS	CENTS	DOLLARS	CENTS
407.0103	3,330 GAL	STRAIGHT TACK COAT FOR: _____ DOLLARS _____ CENTS				
418.7603	16,640 LF	ASPHALT PAVEMENT JOINT ADHESIVE FOR: _____ DOLLARS _____ CENTS				
490.10	14,833 SY	PRODUCTION COLD MILLING OF BITUMINOUS CONCRETE FOR: _____ DOLLARS _____ CENTS				
552.17	70 SF	SHIELDS AND SHORING FOR: _____ DOLLARS _____ CENTS				
553.030001	1 EACH	TEMPORARY WATERWAY DIVERSION STRUCTURE FOR: _____ DOLLARS _____ CENTS				
553.030002	1 EACH	TEMPORARY WATERWAY DIVERSION STRUCTURE FOR: _____ DOLLARS _____ CENTS				

County Route 2 Resurfacing

Edward Corners/
Cottage Road
S.R. 39 to Nashville Rd.

Cattaraugus County DPW

Engineering Division
8810 Route 242
Little Valley, NY 14755



Bergmann Associates, Architects, Engineers,
Landscape Architects & Surveyors, D.P.C.

Waterfront Village Center
40 LaRiviere Drive
Suite 200
Buffalo, NY 14202

office: 716.852.3211

www.bergmannpc.com

REVISIONS			
NO.	DATE	DESCRIPTION	REV. CK'D



05/17/2023
Date

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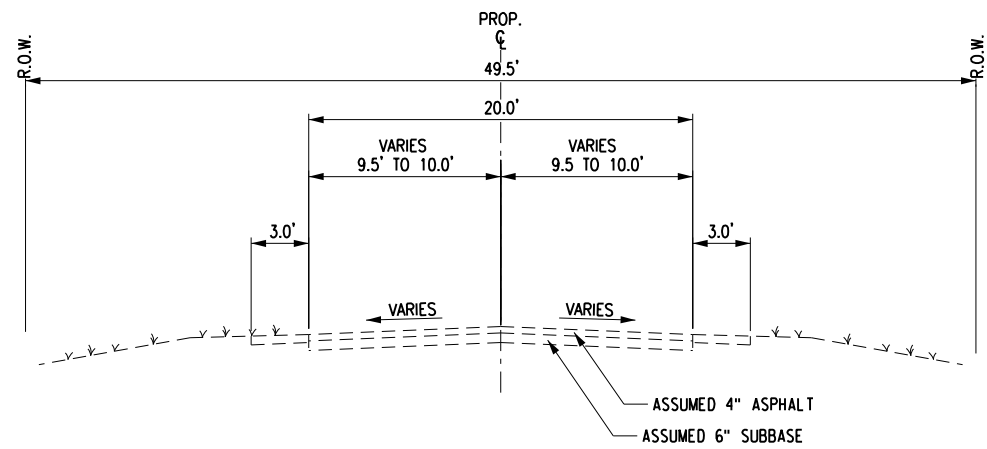
Project Manager: J.M.D.	Checked By: C.E.B.
Designed By: S.F.S.	Drawn By: S.F.S.
Date Issued: April, 2023	Scale: AS SHOWN
Project Number: BA 016211.04	

TYPICAL SECTIONS

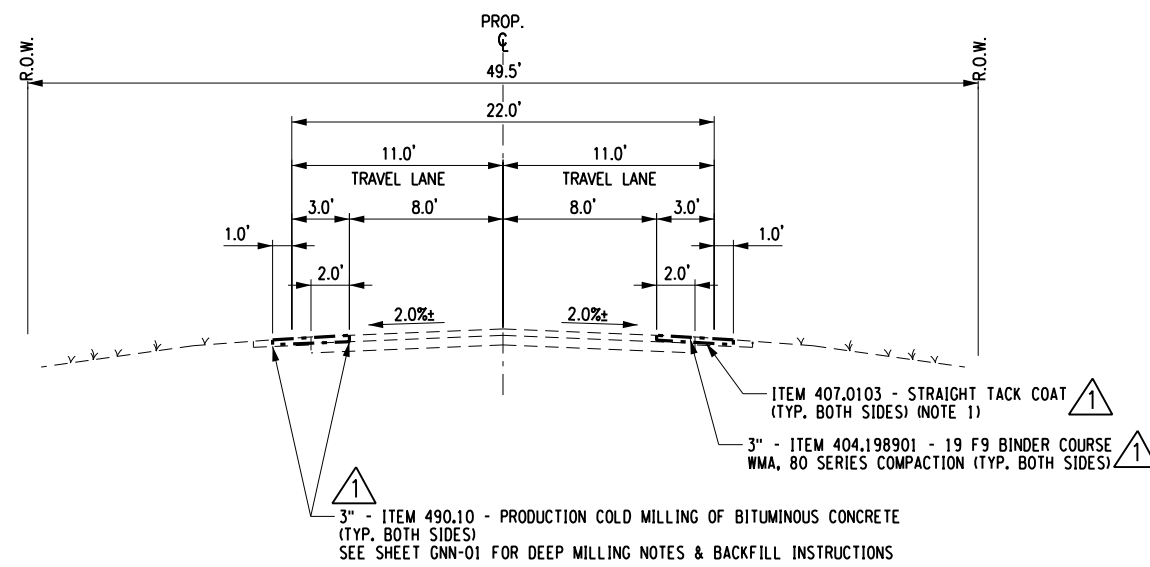
Drawing Number:

TYP-01

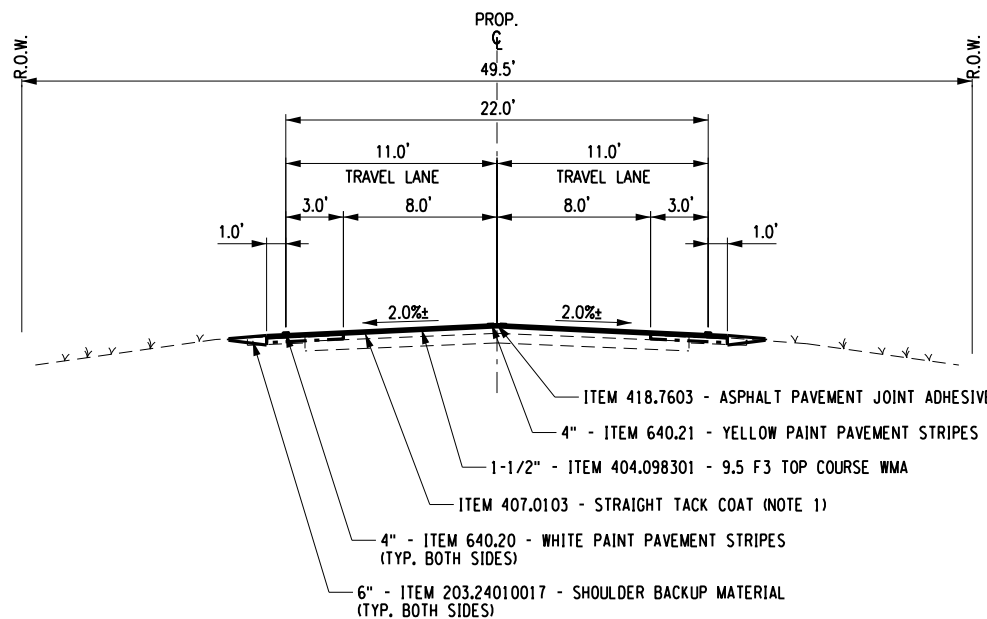
5 A1 of 37



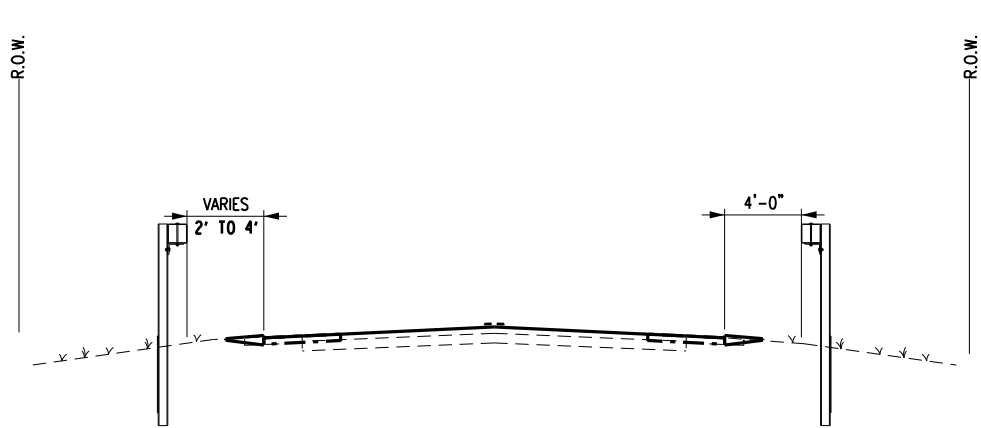
EDWARD CORNERS/COTTAGE ROAD
EXISTING CONDITIONS



EDWARD CORNERS/COTTAGE ROAD
PHASE 1 - DEEP SHOULDER MILLING



EDWARD CORNERS/COTTAGE ROAD
PHASE 2 - ASPHALT PLACEMENT



EDWARD CORNERS/COTTAGE ROAD
GUIDERRAIL OFFSETS - SEE NOTE 2

NOTES:

1. TACK COAT SHALL BE PLACED BETWEEN ALL ASPHALT LAYERS AND BETWEEN NEW ASPHALT AND EXISTING AND MILLED ASPHALT A.O.B.E.
2. SEE MST-01 FOR GUIDERRAIL OFFSET AT EACH GUIDERRAIL LOCATION.
3. SEE SHEET GNN-01 FOR PROJECT PHASING NOTES

THIS SHEET SUPERSEDES SHEET 5

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S.R. 39 to Nashville Rd.

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Project Manager:	Checked By:
J.M.D.	C.E.B.
Designed By:	Drawn By:
S.F.S.	S.F.S.
Date Issued:	Scale:
April, 2023	AS SHOWN
Project Number:	
BA 016211.04	

GENERAL NOTES

Drawing Number:
GNN-01
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GENERAL NOTES:

GUIDERAIL LOCATIONS:

1. THE PROJECT DOES NOT INCLUDE ALL RAIL RUNS WITHIN THE PROJECT LIMITS. ONLY DESIGNATED RUNS OF RAIL AS NOTED ON THE PLAN AND GUIDERAIL TABLE SHALL BE WORKED ON AS PART OF THIS PROJECT.
2. RAIL REPRESENTATION ON THE GENERAL PLANS IS APPROXIMATE. TYPICAL RAIL PLACEMENT IS 4 FT. FROM THE EDGE OF TRAVEL WAY TO THE FACE OF RAIL. WHERE EXCEPTIONS TO TYPICAL PLACEMENT EXIST THEY ARE NOTED ON THE PLANS AND GUIDERAIL TABLE.

PHASING:

PHASE 1

1. COMPLETE ALL DRAINAGE MODIFICATIONS AND SITE-SPECIFIC PAVEMENT RESTORATION.



2. DEEP MILLING (ITEM 490.10): A 4' WIDE BOX OUT EACH SIDE OF THE ROAD (3" DEEP) CONSISTING OF 2' SHOULDER AND THE OUTER 2' OF THE PAVEMENT AREA SHALL BE MILLED. A 3" LIFT OF BINDER, ITEM 404.198901, SHALL BE INSTALLED (SEE TYPICAL SECTIONS).

PHASE 2

3. A ONE COURSE OVERLAY OF 1 1/2" TOP COURSE SHALL BE APPLIED WITH FINAL PAVEMENT WIDTH OF 24' (2-11' LANES AND 1' SHOULDER EACH SIDE). AT THE COMPLETION OF THE TOP LAYER, 2 FT OF SHOULDER BACKUP/GRAVEL WEDGE SHALL BE APPLIED TO EACH SIDE OF THE PAVEMENT

4. GUIDERAIL AND SNOW PLOW MARKER INSTALLATION SHALL BE COMPLETED

WORK ZONE TRAFFIC CONTROL NOTES:

SEE NYSDOT STANDARD SHEET 619-10 FOR WORK ZONE TRAFFIC CONTROL GENERAL NOTES, SUPPLEMENTED BY THE FOLLOWING

1. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE, ERECT, AND MAINTAIN NECESSARY TEMPORARY TRAFFIC CONTROL DEVICES, DELINEATORS, SIGNS, AND BARRICADES IN ACCORDANCE WITH THE 2009 EDITION OF THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", THE NEW YORK STATE SUPPLEMENT TO THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES". SECTION 619 OF THE NYSDOT STANDARD SPECIFICATIONS AND NYSDOT 619 STANDARD SHEETS.
2. THE WORK ZONE TRAFFIC CONTROL SCHEMES SHOWN IN THESE PLANS DESCRIBE THE RECOMMENDED METHODS AND CONTROL DEVICES NECESSARY. THE ENGINEER MAY ORDER ADDITIONAL DEVICES AND/OR METHODS TO MEET FIELD CONDITIONS.
3. THE CONTRACTOR SHALL TAKE EVERY PRECAUTION TO AVOID DAMAGING EXISTING PAVEMENT, CURBS AND SIDEWALKS WHEN IT IS NECESSARY TO MOVE EQUIPMENT THROUGH LOCAL STREETS. THE CONTRACTOR SHALL OBSERVE ALL OF THE RULES AND REGULATIONS, AND DIRECTIONS OF THE LOCAL MUNICIPALITIES RELATIVE TO SUCH HANDLING OF EQUIPMENT, AND TAKE SUCH PROTECTIVE MEASURES AS THEY DEEM NECESSARY OR A.O.B.E. LOCAL STREET PAVEMENTS, CURBS, VEGETATION, SIDEWALKS, AND OTHER APPURTENANCES LOCATED WITHIN THE CONTRACT LIMITS THAT ARE NOT SCHEDULED TO BE REPLACED, AND ARE DAMAGED BY THE CONTRACTOR, SHALL BE RESTORED, REPLACED OR REPAIRED (TO THE SATISFACTION OF THE ENGINEER) AT THEIR SOLE COST AND EXPENSE.
4. ALL DROP OFFS SHALL BE PROTECTED AS OUTLINED IN SECTION 619 OF THE STANDARD SPECIFICATIONS
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THEIR CONSTRUCTION OPERATIONS SO AS TO BE IN CONFORMANCE WITH THE TRAFFIC CONTROL PLANS, AND WITH THAT OF THE AFFECTED UTILITY COMPANIES.
6. PROGRESS WITH THE INSTALLATION OF PERMANENT SIGNING AND PAVEMENT MARKINGS AS APPROPRIATE. ALL SIGNS AND MARKINGS MUST BE IN PLACE BEFORE THE OPENING OF ANY PORTIONS OF THE PROJECT. TO ACCOMMODATE FINAL AND/OR DETOUR PATTERNS, CARE MUST BE TAKEN TO ENSURE THAT FINAL SIGNING AND PAVEMENT MARKINGS WILL NOT BE CONTRADICTORY TO PROPOSED OPERATIONS DURING ANY ONE PHASE. FINAL SIGNS IN PLACE BUT NOT IN USE FOR DIRECTING TRAFFIC SHALL BE COVERED.
7. DELINEATION DEVICES CONFORMING TO NYSDOT REQUIREMENTS SHALL BE SPACED AT A DISTANCE OF 30 FEET. THE CONTRACTOR SHALL REDUCE THE SPACING TO 15 FEET THROUGH ALL HORIZONTAL CURVES AND TAPERS WITHIN THE PROJECT. CLOSER SPACING MAY BE REQUIRED IN OTHER AREAS, A.O.B.E.

EROSION AND SEDIMENT CONTROL NOTES:

1. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MUST BE IMPLEMENTED, INSPECTED, MONITORED, AND MAINTAINED AS SPECIFIED IN SECTION 209 OF THE NYSDOT STANDARD SPECIFICATIONS AND STANDARD SHEETS 209-1 THROUGH 209-7.
2. THE LOCATIONS OF EROSION AND SEDIMENT CONTROL MEASURES, AS INDICATED IN THE CONTRACT DOCUMENTS, MAY REQUIRE FIELD ADJUSTMENTS DEPENDING ON THE SEQUENCE OF CONSTRUCTION ACTIVITIES, CONSTRUCTION METHODS AND/OR ACTUAL FIELD CONDITIONS.
3. THE ENGINEER SHALL BE NOTIFIED OF ANY SIGNIFICANT CHANGES TO THE EROSION AND SEDIMENT CONTROL MEASURES INDICATED IN THE CONTRACT DOCUMENTS.
4. AT THE PRECONSTRUCTION MEETING, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL TO THE ENGINEER THEIR WRITTEN SCHEDULE AND PROPOSED MEASURES FOR TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL WORK AND SCHEDULE OF OPERATIONS AS REQUIRED BY SECTION 209 OF THE NYSDOT STANDARD SPECIFICATIONS.
5. ALL DREGGED AND EXCAVATED MATERIAL THAT IS DISPOSED OF IN AN UPLAND SITE SHALL BE SUITABLY STABILIZED WITH SEED AND MULCH IN ACCORDANCE WITH SECTION 209 OF THE NYSDOT STANDARD SPECIFICATIONS SO THAT IT CANNOT REASONABLY RE-ENTER ANY WATER BODY OR WETLAND AREA.
6. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE PLACED PRIOR TO STARTING EARTH WORK OPERATIONS AND SHALL REMAIN IN PLACE UNTIL THE NEW SLOPES ARE STABILIZED WITH SEEDING, MULCH AND/OR SLOPE PROTECTION IN ACCORDANCE WITH SECTION 209 OF THE NYSDOT STANDARD SPECIFICATIONS.
7. THE CONTRACTOR SHALL CONSTRUCT A CONSTRUCTION ENTRANCE IN ACCORDANCE WITH NYSDOT STANDARD SHEET 209-05, AT THE ACCESS OF ALL STAGING AREAS TO A PUBLIC ROADWAY AND AT THE PROJECT WORK LIMITS WITH VEHICLES ARE HEADED OFFSITE FROM AN UN-STABILIZED AREA. WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO ADJACENT ROADWAYS. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE. ALL COSTS SHALL BE INCLUDED IN EXCAVATION ITEMS AND ITEM 619.01.
8. ALL PRECAUTIONS SHALL BE TAKEN TO PREVENT CONTAMINATION OF ANY STREAM OF WATERWAY BY SILT, SEDIMENT, FUELS, SOLVENTS, LUBRICANTS, EPOXY COATINGS, CONCRETE LEACHING OR ANY OTHER POLLUTION ASSOCIATED WITH CONSTRUCTION AND CONSTRUCTION PROCEDURES.
9. DURING CONSTRUCTION, NO WET OR FRESH CONCRETE OR LEACHATE SHALL BE ALLOWED TO ESCAPE INTO ANY WATERS, NOR SHALL WASHING FROM CONCRETE TRUCKS, MIXERS OR OTHER DEVICES BE ALLOWED TO ENTER ANY WETLAND OR WATERS.
10. DUMP TRUCK HAULING FROM CONSTRUCTION SITE WHICH ARE PRONE TO BLOWING FROM THE WIND WILL BE COVERED BY A TARPULIN.
11. IF CONSTRUCTION ACTIVITIES ARE DISCONTINUED IN AREAS OF SOIL DISTURBANCE BEFORE FINAL GRADING IS COMPLETE, THEN TEMPORARY MULCH (ITEM 209.100101) WILL BE APPLIED WITHIN 14 DAYS OF EXPOSURE OR ABOVE. THIS PAY ITEM IS ESTIMATED AND THE QUANTITY MAY VARY BASED ON ACTUAL CONSTRUCTION CONDITIONS. THE CONTRACTOR SHALL HAVE TEMPORARY MULCH AVAILABLE TO STABILIZE THE SITE THROUGHOUT THE DURATION OF CONSTRUCTION.
12. STAGING AREAS SHALL BE IDENTIFIED BY THE CONTRACTOR AND SHALL BE IN AN UPLAND LOCATION THAT DOES NOT DESTROY FORESTED HABITAT. UPON COMPLETION OF WORK, THE SITE SHALL BE RESTORED IN ACCORDANCE WITH SECTION 107 OF THE NYSDOT STANDARD SPECIFICATIONS. PAYMENT FOR STAGING AREAS IS INCLUDED IN MOBILIZATION.
13. WHEN THE PROJECT IS COMPLETED AND STABILIZED, REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES.
14. EXCAVATED MATERIAL MUST BE TAKEN TO A PERMANENT SPOIL AREA OR IMMEDIATELY USED WITHIN THE PROJECT. NO EXCAVATED MATERIAL MAY BE STOCKPILED WITHIN THE PROJECT LIMITS.
15. THE CONTRACTOR IS STRICTLY PROHIBITED FROM USING ON-SITE SOIL TO DAM, DIVERT, OR OTHERWISE BLOCK STREAM FLOW.
16. ALL AREAS SHALL BE PERMANENTLY SEEDED BY OCTOBER 1.

THIS SHEET SUPERSEDES SHEET 6

ESTIMATE OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
201.06	CLEARING AND GRUBBING	LS	1
203.01920007	WETLAND RESTORATION	CY	35
203.03	EMBANKMENT IN PLACE	CY	31
203.07	SELECT GRANULAR FILL	CY	186
203.24010017	SHOULDER BACKUP MATERIAL	TON	1,673
206.01	STRUCTURE EXCAVATION	CY	26
206.0201	TRENCH AND CULVERT EXCAVATION	CY	426
209.100101	MULCH - TEMPORARY	SY	111
209.2301	SEDIMENT FILTER LOG-TEMPORARY,12"	LF	184
304.15	SUBBASE COURSE, OPTIONAL TYPE	△ CY	19
404.098301	9.5 F3 TOP COURSE WMA, 80 SERIES COMPACTION	TON	4,233.78
404.198901	19 F9 BINDER COURSE WMA, 80 SERIES COMPACTION	△ TON	2,695.43
407.0103	STRAIGHT TACK COAT	△ GAL	3,330
418.7603	ASPHALT PAVEMENT JOINT ADHESIVE	LF	16,640
490.10	PRODUCTION COLD MILLING OF BITUMINOUS CONCRETE	SY	14,833
552.17	SHIELDS AND SHORING	SF	70
553.030001	TEMPORARY WATERWAY DIVERSION STRUCTURE	EACH	1
553.030002	TEMPORARY WATERWAY DIVERSION STRUCTURE	EACH	1
553.030003	TEMPORARY WATERWAY DIVERSION STRUCTURE	EACH	1
555.0105	CONCRETE FOR STRUCTURES, CLASS A	CY	1.6
603.171416	GALVANIZED STEEL END SECTIONS-PIPE (2-2/3" X 1/2" CORRUGATIONS) 24 INCH DIAMETER, 16 GAUGE	EACH	6
603.171614	GALVANIZED STEEL END SECTIONS-PIPE (2-2/3" X 1/2" CORRUGATIONS) 30 INCH DIAMETER, 14 GAUGE	EACH	2
603.6105	REINFORCED CONCRETE PIPE CLASS IV, 24 INCH DIAMETER	LF	45
603.6107	REINFORCED CONCRETE PIPE CLASS IV, 30 INCH DIAMETER	LF	50
603.63050315	PRECAST CONCRETE BOX CULVERT, 5 FOOT SPAN, 3 FOOT RISE	LF	18
603.63050515	PRECAST CONCRETE BOX CULVERT, 5 FOOT SPAN, 5 FOOT RISE	LF	7
603.67000101	PRECAST CONCRETE WINGWALL UNITS FOR BOX CULVERTS	SY	23
603.7305	REINFORCED CONCRETE PIPE END SECTIONS 24 INCH DIAMETER	EACH	2
603.7307	REINFORCED CONCRETE PIPE END SECTIONS 30 INCH DIAMETER	EACH	2
603.9818	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORMDRAIN 18 INCH DIAMETER	LF	60
603.9824	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORMDRAIN 24 INCH DIAMETER	LF	65
606.10	BOX BEAM GUIDE RAILING	LF	2,513
606.100002	BOX BEAM GUIDE RAILING (SHOP BENT OR SHOP MITERED)	LF	116
606.120101	BOX BEAM END PIECE	EACH	1
606.120201	BOX BEAM GUIDE RAILING END ASSEMBLY, TYPE IIA	EACH	16
606.71	REMOVING AND DISPOSING CORRUGATED BEAM GUIDE RAILING	LF	509
606.7910	REMOVING AND DISPOSING ANCHORAGE UNITS FOR CORRUGATED BEAMGUIDE RAILING AND MEDIAN BARRIER	EACH	8
607.41010010	TEMPORARY PLASTIC BARRIER FENCE	LF	348
609.0801	PRECAST CONCRETE CURB TYPE PVF6	LF	14

ESTIMATE OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
610.16010020	TURF ESTABLISHMENT - PERFORMANCE	SY	461
613.04000001	STOCKPILING AND PLACING EXISTING STREAM BED MATERIALS	CY	2
617.11000024	EQUIPMENT CLEANING FOR INVASIVE PLANT SPECIES	LS	1
619.01	BASIC WORK ZONE TRAFFIC CONTROL	LS	1
620.02	STONE FILLING (FINE)	CY	4
620.04	STONE FILLING (MEDIUM)	CY	164
620.0802	BEDDING MATERIAL, TYPE 2	CY	46
623.12	CRUSHED STONE (IN-PLACE MEASURE)	CY	46
625.01	SURVEY OPERATIONS	LS	1
627.50140008	CUTTING PAVEMENT	LF	142
633.14	REMOVAL AND REPAIR OF DETERIORATED ASPHALT PAVEMENT	SY	149
637.11	ENGINEER'S FIELD OFFICE - TYPE 1	MNTH	6
637.34	OFFICE TECHNOLOGY AND SUPPLIES	DC	500
640.20	WHITE PAINT REFLECTORIZED PAVEMENT STRIPES - 20 MILS	LF	33,510
640.21	YELLOW PAINT REFLECTORIZED PAVEMENT STRIPES - 20 MILS	LF	33,576
646.22	DELINEATOR, SNOWPLOWING MARKER, SUPPLEMENTARY SNOWPLOWING MARKER PANELS	EACH	33
646.32	STEEL POST, 2.0 LB/FT	EACH	21
698.04	ASPHALT PRICE ADJUSTMENT	DC	100
698.05	FUEL PRICE ADJUSTMENT	DC	100
698.06	STEEL/IRON PRICE ADJUSTMENT	DC	100

Print Date: 5/17/2023 3:47:40 PM
File Name: 016211.04_CPH_EOQ_01.DGN

THIS SHEET SUPERSEDES SHEET 37

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ESTIMATE OF QUANTITIES

Drawing Number:
EQQ-01
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