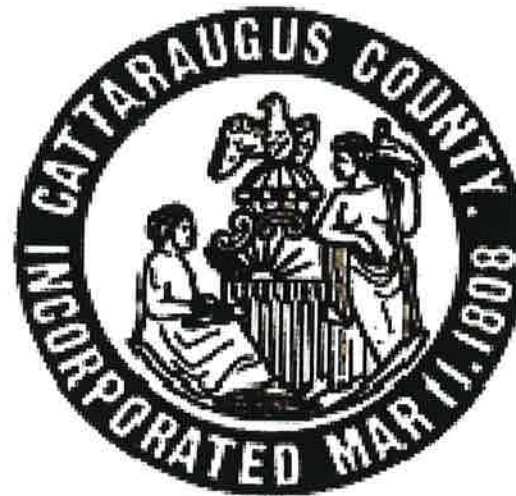


TOWN OF ASHFORD

LINING OF 3 CULVERTS ON COUNTY ROAD 85: ASHFORD 22, C85-24569, AND C85-24439



DESCRIPTION OF WORK TO BE PERFORMED:
CULVERT LINING

ALL WORK CONTEMPLATED UNDER THIS CONTRACT TO BE COVERED BY AND IN CONFORMITY WITH THE SPECIFICATIONS OF THE STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION, ADOPTED MAY 1, 2018 WITH CURRENT ADDITIONS AND MODIFICATIONS AND WITH SUBSEQUENT MODIFICATIONS ON THESE PLANS AND IN THE ITEMIZED PROPOSAL AND INSTRUCTIONS TO BIDDERS.

STANDARD SHEETS:
209-01
209-06
619-01
619-02
619-10
619-11
619-20
619-21
619-60



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

PREPARED AND RECOMMENDED BY:

Brian J. Carlson
BRIAN J. CARLSON, P.E.
GREENMAN-PEDERSEN, INC.

6/20/18
DATE

APPROVED BY:

Kathleen M. Ellis
KATHLEEN M. ELLIS
COMMISSIONER
CATTARAUGUS COUNTY DPW

6/20/18
DATE

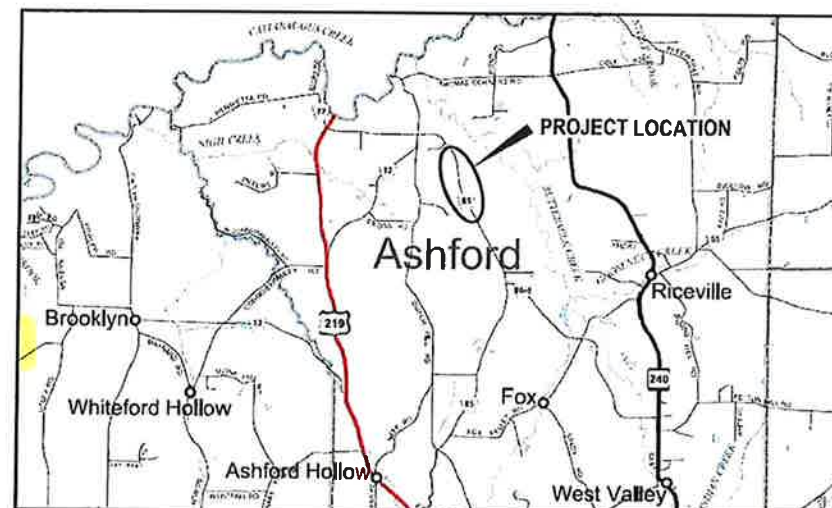
APPROVED BY:

Mark C. Burr
MARK C. BURR, P.E.
DIRECTOR OF ENGINEERING
CATTARAUGUS COUNTY DPW

6/20/2018
DATE

INDEX OF SHEETS

- C-1 COVER SHEET
- C-2 GENERAL NOTES
- C-3 DETOUR PLAN
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- C-5 GENERAL PLAN (ASHFORD 22)
- C-6 LONGITUDINAL SECTION (ASHFORD 22)
- C-7 GENERAL PLAN (CULVERTS C85-24569 AND C85-24439)
- C-8 LONGITUDINAL SECTIONS (CULVERTS C85-24569 AND C85-24439)



LOCATION MAP
NOT TO SCALE

Greenman-Pedersen, Inc.
Engineering and Construction Services
4950 Genesee Street, Buffalo, NY 14225
Tel: (716) 633-4844 Fax: (716) 633-4840

GPI

WARNING: ALTERATIONS TO THIS DOCUMENT NOT CONFORMING TO SECTION 2205, SUBDIVISION 2, STATE EDUCATION LAW, ARE PROHIBITED

SCALE	DATE	DWG NO.	NO	REVISIONS	BY	DATE
NONE	MAY 2018	2017081.00_PL_C041.DWG				

COVER SHEET	CR-85 CULVERT LININGS TOWN OF ASHFORD, CATTARAUGUS COUNTY, NY
SHEET NO.	C-1

GENERAL NOTES

- CONSTRUCTION AND MATERIAL SPECIFICATIONS: STANDARD SPECIFICATIONS, CONSTRUCTION AND MATERIALS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, OFFICE OF ENGINEERING, DATED MAY 1, 2018 WITH CURRENT ADDITIONS AND MODIFICATIONS.
- DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS FOR WHICH NO SCALE IS SHOWN ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.
- ALL SHOP DRAWINGS SUBMITTED FOR THIS PROJECT SHALL BE IN US CUSTOMARY UNITS.
- SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL. AT LEAST TWO WORKING DAYS PER DRAWING WITH A MINIMUM OF TEN WORKING DAYS MUST BE ALLOWED FOR EACH SET OF DRAWINGS SUBMITTED FOR REVIEW. NO WORK MAY BEGIN UNTIL THE RESPECTIVE SUBMITTALS ARE APPROVED. ALL COSTS FOR PREPARING THESE PLANS AND CALCULATIONS SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE CONTRACT.
- WELDING SHALL CONFORM TO THE NEW YORK STATE STEEL CONSTRUCTION MANUAL., INCLUDING ALL ADDENDA.
- NO DIRECT PAYMENT SHALL BE MADE FOR WORK INDICATED ON THE DRAWINGS OR THE SPECIFICATIONS FOR WHICH NO ITEM NUMBER IS INDICATED. THE COST FOR SUCH WORK SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE CONTRACT.
- THE CONTRACTOR WILL BE ALLOWED TO STAGE HIS OPERATIONS WITHIN THE LIMITS OF THE EXISTING ROADWAY SHOULDERS. EXISTING GROUND SURFACES OUTSIDE OF THE PROPOSED WORK LIMITS SHALL NOT BE DISTURBED. ANY DAMAGE TO THE EXISTING ROADWAY AND SHOULDERS SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AT NO COST TO THE COUNTY.

EARTHWORK / EXCAVATION NOTES

- CARE SHALL BE TAKEN TO RETAIN NATURAL GROWTH AND PREVENT DAMAGE TO TREES WITHIN AND OUTSIDE THE LIMITS OF CONSTRUCTION, AND NOT SCHEDULED FOR REMOVAL. ANY DAMAGE CAUSED TO THIS NATURAL GROWTH SHALL BE RESTORED AT THE EXPENSE OF THE CONTRACTOR AS DIRECTED BY THE ENGINEER.
- DEWATERING MAY BE REQUIRED FOR THE INSTALLATION. THE COST OF DEWATERING IS TO BE INCLUDED IN THE VARIOUS EXCAVATION ITEMS.
- THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY SUPPORTS, BRACING AND OTHER DEVICES REQUIRED OR DIRECTED BY THE ENGINEER TO PROTECT THE SAFETY OF THE ADJACENT STRUCTURES, ROADWAY AND UTILITIES.
- FILL COMPACTION: ALL PLACEMENTS OF SELECT GRANULAR FILL, ITEM 203.07, AND SELECT STRUCTURE FILL, ITEM 203.21, SHALL BE COMPACTED TO 95 PERCENT MAXIMUM DENSITY.
- THE COST OF WATER USED FOR THE COMPACTION OF SELECT FILL ITEMS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 203.21 – SELECT STRUCTURE FILL.
- MATERIALS EXCAVATED UNDER ITEM 203.02 AND 206.0201 MAY BE USED AS BORROW MATERIAL IF THE ENGINEER JUDGES SUCH MATERIALS TO BE SUITABLE. THESE EXCAVATIONS ITEMS ARE NOT REFLECTED IN THE EMBANKMENT ITEMS.
- THE TOP PAYMENT LIMIT UNDER ITEM 206.01 STRUCTURE EXCAVATION SHALL BE THE SUBGRADE ESTABLISHED UNDER ITEM 203.02 UNCLASSIFIED EXCAVATION AND DISPOSAL. SEE DWGS TS-1, EXC-1, AND EXC-2.
- THE CONTRACTOR SHALL STRICTLY ADHERE TO ALL PERMIT CONDITIONS AND REQUIREMENTS, AS ENUMERATED IN THE SPECIAL INSTRUCTIONS SECTION OF THE PROPOSAL BOOK. AT ANY TIME THE ENGINEER DETERMINES THAT WORK IS NOT IN COMPLIANCE WITH THE PERMIT REQUIREMENTS OR IS ADVERSELY IMPACTING THE CREEK OR ADJACENT PROPERTIES, HE SHALL ORDER SUCH OPERATIONS BE TERMINATED, AND THE CONTRACTOR MUST PROVIDE THE NECESSARY MITIGATION MEASURES PRIOR TO CONTINUING.
- WORK IN FLOWING WATER IS STRICTLY PROHIBITED. STREAM FLOW SHALL BE DIVERTED, PUMPED, OR OTHERWISE PREVENTED FROM ENTERING THE WORK AREA AS APPROVED BY THE ENGINEER. PAID FOR UNDER ITEM 553.03000N, TEMPORARY WATERWAY DIVERSION STRUCTURE.

STRUCTURE NOTES

- ALL PRECAST AND CAST-IN-PLACE CONCRETE SHALL UTILIZE THE CORROSION-INHIBITING ADMIXTURE DCI IN THE PROPORTIONS RECOMMENDED BY THE MANUFACTURER W.R. GRACE INC., OR APPROVED EQUAL. THE COST SHALL BE INCLUDED IN THE UNIT PRICE FOR THE CONCRETE ITEMS. UNCOATED REINFORCING BARS SHALL BE USED.
- ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED 1" UNLESS OTHERWISE NOTED.
- ALL CONCRETE SURFACES EXPOSED TO VIEW SHALL HAVE ALL PROJECTIONS AND IRREGULARITIES CAREFULLY REMOVED AND ALL CAVITIES NEATLY FILLED WITH MORTAR OF THE PROPORTION USED IN CONCRETE.
- MINIMUM COMPRESSIVE STRENGTH OF CONCRETE (f'c) SHALL BE 3000 PSI (CAST-IN-PLACE) AND 5000 PSI (PRECAST UNITS).

UTILITY NOTES

- LOCATION OF UTILITIES, PUBLIC AND/OR PRIVATE, INDICATED AS EXISTING AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THEIR EXACT LOCATION SHALL BE DETERMINED IN THE FIELD. ADDITIONAL UTILITY LINES, WHETHER ABANDONED OR IN SERVICE, MAY EXIST AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONDUCT HIS OPERATIONS AND TAKE THE NECESSARY PRECAUTIONS TO PREVENT INTERFERENCE WITH OR DAMAGE TO THESE OR OTHER FACILITIES DURING THE COURSE OF CONSTRUCTION.
- IN THE EVENT THE CONTRACTOR DAMAGES AN EXISTING UTILITY SERVICE CAUSING AN INTERRUPTION IN SAID SERVICE, HE SHALL IMMEDIATELY COMMENCE WORK TO RESTORE SERVICE AND MAY NOT CEASE HIS WORK OPERATION UNTIL SERVICE IS RESTORED.
- THE METHOD OF REMOVAL OF EXISTING ROADWAY OR SHOULDER PAVEMENT IN THE IMMEDIATE VICINITY OF UNDERGROUND UTILITIES SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
- HIGH VOLTAGE LINES ARE LOCATED IN PROXIMITY TO THE CULVERT. REFER TO THE ELECTRICAL SAFETY NOTE CONTAINED IN SECTION 107-05 J OF THE STANDARD SPECIFICATIONS FOR SPECIAL CONTRACTOR SAFETY REQUIREMENTS.
- THE CONTRACTOR IS ADVISED THAT EXISTING UTILITIES MAY INTERFERE WITH THE INSTALLATION OF THE PROPOSED CULVERT LINERS. WHERE EXISTING UTILITIES ARE REQUIRED TO BE SUPPORTED BRACED, OR RELOCATED, THE CONTRACTOR SHALL MAKE THE NECESSARY ARRANGEMENTS WITH THE AFFECTED UTILITY COMPANY REGARDING SUPPORT, BRACING OR RELOCATION. ALL WORK REQUIRED TO SUPPORT, BRACE OR RELOCATE A UTILITY SHALL BE PERFORMED BY THE AFFECTED UTILITY AT THEIR OWN EXPENSE. ANY DELAYS TO THE CONTRACTOR'S SCHEDULE AS A RESULT OF UTILITY RELOCATION WILL NOT BE COUNTED TOWARDS THE TOTAL NUMBER OF DAYS ALLOWED UNDER THE LIQUIDATED DAMAGES SECTION IN THE PROPOSAL BOOK.

UTILITIES AND CONTACTS			
UTILITY	OWNER	CONTACT	PHONE NO.
ELECTRIC	NATIONAL GRID	KEVIN URBANSKI	(716) 831-7496
NATURAL GAS	NATIONAL FUEL	TIM NUGENT	(716) 857-7431
COMMUNICATIONS	FRONTIER COMMUNICATIONS	THOMAS THORNTON	(585) 657-9235

MISCELLANEOUS NOTES

- THE CONTRACTOR IS TO VISIT THE SITE BEFORE BIDDING, TO FAMILIARIZE HIMSELF WITH THE FIELD CONDITIONS AND TO JUDGE FOR HIMSELF THE EXTENT AND NATURE OF THE WORK TO BE DONE UNDER THIS CONTRACT. NO EXTRA COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR BECAUSE OF THE CONTRACTOR'S FAILURE TO INCLUDE IN HIS BID ALL ITEMS AND MATERIALS WHICH HE IS REQUIRED TO FURNISH IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- UNIT BID PRICES SHALL INCLUDE ANY ADDITIONAL COST INCURRED TO MEET ARMY CORPS OF ENGINEERS, NYSDEC, USEPA AND OSHA REGULATIONS.
- WHENEVER ITEMS IN THE CONTRACT REQUIRE MATERIALS TO BE REMOVED AND DISPOSED, THE COST OF SUPPLYING A DISPOSAL AREA AND TRANSPORTATION TO THE AREA SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THOSE ITEMS.
- ALL WORK AREAS AT THE STRUCTURE SHALL BE COMPLETELY FENCED, CONFORMING WITH OSHA REGULATIONS, TO THE SATISFACTION OF THE ENGINEER, TO PROTECT THE PUBLIC AND PREVENT UNAUTHORIZED ENTRY. SEE SECTION 107 OF THE NYSDOT STANDARD SPECIFICATIONS DATED MAY 1, 2018 INCLUDING CURRENT ADDITIONS AND MODIFICATIONS.
- THE CONTRACTOR SHALL PROTECT HIS WORKERS AT ALL TIMES IN CONFORMANCE WITH APPLICABLE OSHA REGULATIONS AND ALL OTHER SAFETY REQUIREMENTS.
- IT WILL BE THE CONTRACTOR'S OBLIGATION AND RESPONSIBILITY TO USE METHODS AND EQUIPMENT WHICH WILL INSURE THE SATISFACTORY COMPLETION OF THE REQUIRED WORK WITH A MINIMUM OF DELAY.
- THE DETAILS SHOWN FOR THE CULVERT PIPES ARE BASED ON THE ASSUMPTION THAT THE WATER IN THE STREAM CHANNEL WILL BE DIVERTED DURING THE ENTIRE CONSTRUCTION OF THE PIPE. SHOULD THE CONTRACTOR DESIRE TO DIVERT THE WATER THROUGH THE PIPE BEFORE COMPLETION OF THE ENTIRE PIPE, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL.
- DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL CONDUCT OPERATIONS IN SUCH A MANNER AS TO PREVENT OR REDUCE TO A MINIMUM ANY DAMAGE TO ANY STREAM FROM POLLUTION BY DEBRIS, SEDIMENT OR OTHER FOREIGN MATERIAL, OR FROM MANIPULATION OF EQUIPMENT AND/OR MATERIALS IN OR NEAR SUCH STREAMS. THE CONTRACTOR SHALL NOT RETURN DIRECTLY TO A STREAM ANY WATER WHICH HAS BEEN USED FOR WASH PURPOSES OR OTHER SIMILAR OPERATIONS WHICH CAUSE THIS WATER TO BECOME POLLUTED WITH SAND, SILT, CEMENT, OIL OR OTHER IMPURITIES. IF THE CONTRACTOR USES WATER FROM A STREAM, THE CONTRACTOR SHALL CONSTRUCT AN INTAKE OR TEMPORARY DAM REQUIRED TO PROTECT AND MAINTAIN WATER RIGHTS AND TO SUSTAIN FISH DOWNSTREAM.
- GRASSED AREAS DISTURBED BY THE CONTRACTOR, AS PART OF WORK TO BE PERFORMED UNDER THIS CONTRACT, SHALL BE RESTORED AS SPECIFIED, TO THE SATISFACTION OF THE ENGINEER. ALL DISTURBED GRASS AREAS SHALL BE GRADED IN A MANNER APPROVED BY THE ENGINEER, TOPSOILED UNDER ITEM 610.1401, TOPSOIL, AND SEEDED UNDER ITEM 610.1601, ESTABLISHING TURF. TOPSOIL SHALL ONLY BE PLACED AT EXISTING LAWN AREAS AS APPROVED BY THE ENGINEER. DISTURBED AREAS BEYOND THE GRADING LIMITS SHOWN ON THE DRAWINGS SHALL BE RESTORED AS NOTED ABOVE AT NO ADDITIONAL COST TO THE CITY.
- THE CONTRACTOR SHALL EXAMINE AND VERIFY, IN THE FIELD, ALL CONDITIONS AND DIMENSIONS. DIMENSIONS OF THE EXISTING STRUCTURES SHOWN ON THESE PLANS ARE FOR GENERAL REFERENCE ONLY. THE CONTRACTOR SHALL TAKE ALL SUCH FIELD MEASUREMENTS TO ASSURE PROPER FIT OF THE FINISHED WORK, AND THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR THEIR ACCURACY. IF FIELD CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL USE THE FIELD CONDITIONS AND DIMENSIONS AND HAVE APPROPRIATE CHANGES TO THOSE SHOWN ON THE PLANS, AS APPROVED BY THE ENGINEER. WHEN SHOP DRAWINGS BASED ON FIELD MEASUREMENTS ARE SUBMITTED FOR APPROVAL, THE FIELD MEASUREMENTS MADE SHALL BE INDICATED ON THE SHOP DRAWINGS SUBMITTED FOR REFERENCE OF THE REVIEWER.
- RECORD PLANS FOR THESE STRUCTURES ARE AVAILABLE.

MAINTENANCE AND PROTECTION OF TRAFFIC

FOR TEMPORARY DETOUR PLAN, SEE DWG WZTC-1

- PROTECTION OF THE PUBLIC: THE CONTRACTOR SHALL MAINTAIN AND PROTECT TRAFFIC IN ACCORDANCE WITH ITEM 619.01, THE TRAFFIC CONTROL DRAWINGS AND PERTINENT PROVISIONS OF THE NATIONAL MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (2009 EDITION) INCLUDING NEW YORK STATE SUPPLEMENT (17 NYCRR CHAPTER V) 2011 EDITION INCLUDING REVISIONS #1 AND ALL CURRENT ADDITIONS AND MODIFICATIONS. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE REQUIREMENTS OF SECTION 107, LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC, OF THE STANDARD SPECIFICATIONS DATED MAY 1, 2018 INCLUDING CURRENT ADDITIONS AND MODIFICATIONS.
- MAINTENANCE AND PROTECTION OF TRAFFIC FOR COUNTY ROUTE 85, FOR THE WORK ZONE TRAFFIC CONTROL WHEN ROAD IS NOT CLOSED, REFER TO THE NYSDOT WORK ZONE TRAFFIC CONTROL MANUAL.
- REFER TO THE SPECIAL NOTES SECTION OF THE PROPOSAL BOOK FOR ADDITIONAL WORK ZONE TRAFFIC CONTROL NOTES.

ESTIMATE OF QUANTITIES				
ITEM NO	DESCRIPTION	UNIT	ESTIMATED QUANTITY	ACTUAL QUANTITY
201.06	CLEARING AND GRUBBING	LS	NEC	
C205.01	NYSERDA COORDINATION	LS	NEC	
C205.02	NYSERDA WORK STOPPAGE	DAY	5	
C205.03	NYSERDA TRAINING	D-C	2500	
209.13	SILT FENCE - TEMPORARY	LF	60	
209.1501	TURBIDITY CURTAIN - TEMPORARY	LF	30	
553.030001	TEMPORARY WATERWAY DIVERSION STRUCTURE	EA	1	
553.030002	TEMPORARY WATERWAY DIVERSION STRUCTURE	EA	1	
553.030003	TEMPORARY WATERWAY DIVERSION STRUCTURE	EA	1	
602.3642	LINING WITH CURED IN PLACE PIPE (CIPP) - 42"	LF	346	
602.3660	LINING WITH CURED IN PLACE PIPE (CIPP) - 60"	LF	350	
619.01	BASIC WORK ZONE TRAFFIC CONTROL	LS	NEC	
619.04	TYPE III CONSTRUCTION BARRICADES	EA	40	
625.01	SURVEY OPERATIONS	LS	NEC	
697.03	FIELD CHANGE PAYMENT	D-C	38000	
699.040001	MOBILIZATION (4% MAX)	LS	NEC	

Greenman-Pedersen, Inc.
Engineering and Construction Services

4850 Genesee Street, Buffalo, NY 14225
Tel: (716) 633-4844 Fax: (716) 633-4940



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SCALE: AS NOTED	DRAWN BY: NDB	CHECKED BY: BJC	DATE: MAY 2018
DWG NO.: 2017081.00	PL: GN-01.DWG	JOB NO.:	REVISED: NO.
DATE: MAY 2018	BY: BUJ-2017081.00	DATE:	

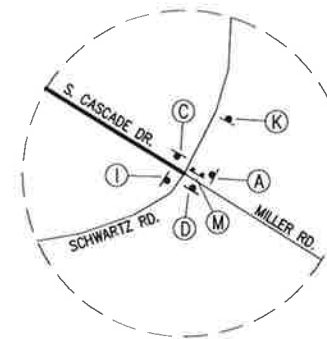
GENERAL NOTES

CR-85 CULVERT LININGS
TOWN OF ASHFORD, CATTARAUGUS COUNTY, NY

SHEET NO.

C-2

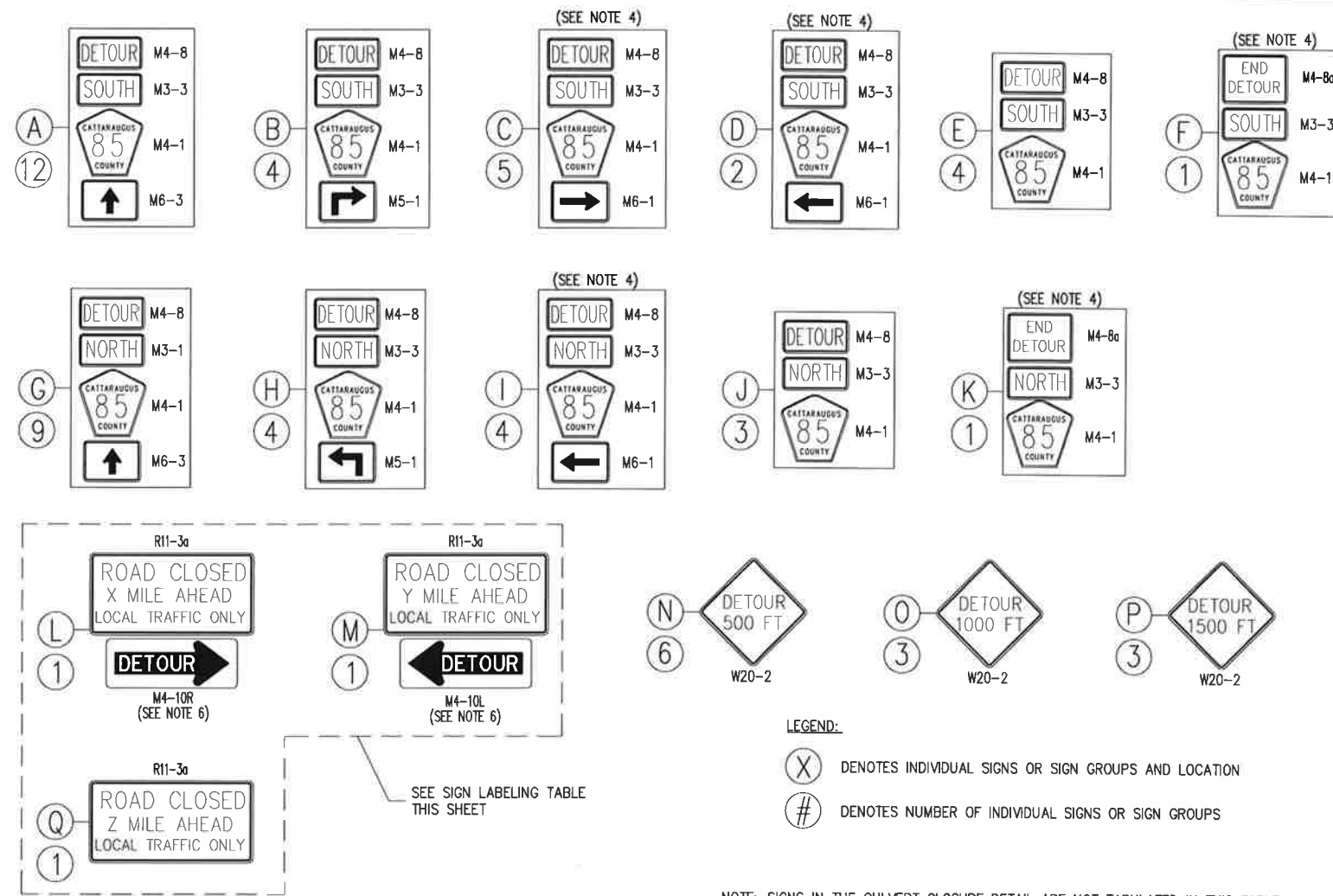
THIS PROJECT HAS BEEN SPLIT INTO TWO SEPARATE PROJECTS: A LINING PROJECT AND A REPLACEMENT PROJECT. SOME NOTES ON THIS SHEET MAY NOT APPLY TO THE LINING PROJECT.



1. REFER TO SHEET C-4 FOR NOTES

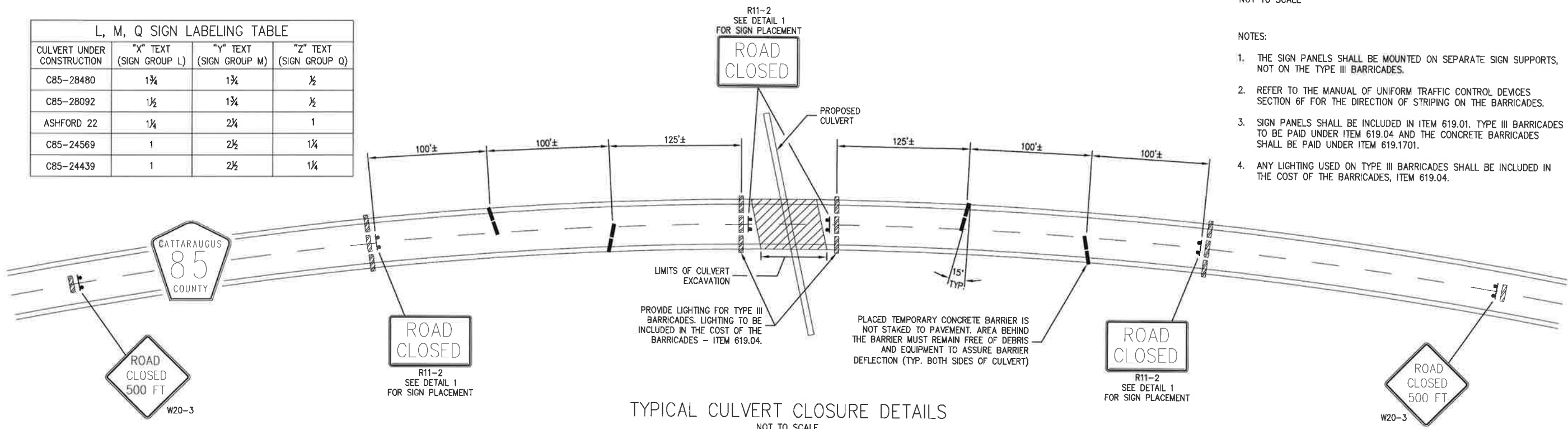
N:\2017\ref-2017091.00 addford solvent 22 and 4 additional\C400\Design Plans\2017091.00_PL_WTCG-01_RUN.dwg Thursday, 21 June 2018 9:32AM

DETOUR SIGN SCHEDULE



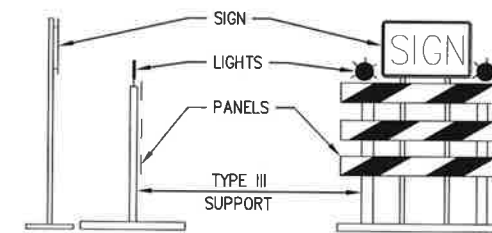
NOTE: SIGNS IN THE CULVERT CLOSURE DETAIL ARE NOT TABULATED IN THIS TABLE.

CULVERT UNDER CONSTRUCTION	"X" TEXT (SIGN GROUP L)	"Y" TEXT (SIGN GROUP M)	"Z" TEXT (SIGN GROUP Q)
C85-28480	1¾	1¾	½
C85-28092	1½	1¾	½
ASHFORD 22	1¼	2¼	1
C85-24569	1	2½	1¼
C85-24439	1	2½	1¼



NOTES:

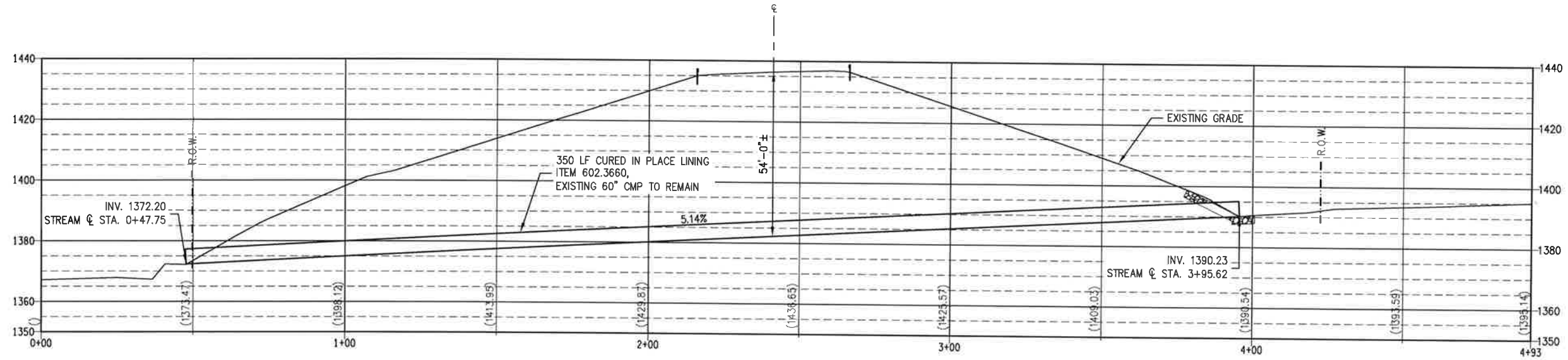
1. MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 619—MAINTENANCE AND PROTECTION OF TRAFFIC OF THE SPECIFICATIONS, THE NATIONAL MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (2009 EDITION AND ALL CURRENT REVISIONS) AND THE NEW YORK STATE SUPPLEMENT (2011 EDITION), AND ANY PROVISIONS CONTAINED IN THE PLANS AND/OR PROPOSAL OF CONTRACT.
2. THE SIGN LOCATIONS ARE APPROXIMATE ONLY, THE EXACT LOCATIONS SHALL BE DETERMINED BY THE E.I.C. THE LATERAL AND LONGITUDINAL PLACEMENT OF SIGNS SHALL BE IN CONFORMANCE WITH THE NATIONAL M.U.T.C.D. AND THE N.Y.S. SUPPLEMENT.
3. THE COST OF FURNISHING AND INSTALLING ALL SIGNS RELATING TO THE ROAD CLOSURE AND TEMPORARY DETOUR SHALL BE PAID UNDER ITEM 619.01 – BASIC WORK ZONE TRAFFIC CONTROL.
4. SIGN GROUPINGS (C), (D), (F), (I), AND (K) SHALL ALWAYS BE POSTED A MAXIMUM OF 50' FROM AN INTERSECTION.
5. THE CONTRACTOR WILL PLACE ALL SIGNS FOR THE DETOUR PRIOR TO ROAD CLOSURE.
6. IF THE ROAD IS OPENED FOR SOME DISTANCE BEYOND THE INTERSECTION AND/OR THERE ARE SIGNIFICANT ORIGIN/DESTINATION POINTS BEYOND THE INTERSECTION, THE R11-2 AND R11-3A ROAD CLOSED SIGNS AND THE M4-10(L/R) "DETOUR" SIGN MOUNTED ON TYPE III BARRICADES ARE TO BE LOCATED AT THE EDGE OF THE TRAVELED WAY.
7. ANY EXISTING SIGNS WHICH CONFLICT WITH THE TEMPORARY TRAFFIC CONTROL LAYOUT SHALL BE COVERED, REMOVED, STORED OR RESET A.O.B.E. BLANK COVERS USED TO COVER PORTIONS OF EXISTING SIGNS SHALL BE OF A COLOR AND REFLECTORIZED MATERIAL MATCHING THAT OF THE SIGN BEING PARTIALLY COVERED. THE CONTRACTOR SHALL BE LIABLE FOR ANY DAMAGE TO SIGNS CAUSED BY THE METHODS USED TO TEMPORARILY REMOVE, REPLACE, RELOCATE OR COVER SIGN PANELS OR SIGN TEXT, AT NO ADDITIONAL COST TO THE STATE. ALL APPROPRIATE EXISTING SIGNS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND/OR LOCATION UNLESS OTHERWISE REPLACED IN THE CONTRACT DOCUMENTS.
8. THE DETOUR PLAN SHOWN IS CONSIDERED TO BE THE MINIMUM REQUIREMENTS. ADDITIONAL SIGNS AND/OR CONTROL DEVICES MAY BE REQUIRED, A.O.B.E.
9. THE CONTRACTOR WILL MAINTAIN ALL SIGNS AND/OR CONTROL DEVICES FOR THE DURATION OF THE DETOUR. THE CONTRACTOR SHALL NOT BE RESPONSIBLE FOR ROADWAY MAINTENANCE.
10. WHEN TYPE III BARRICADES ARE USED NEAR DRIVEWAYS OR INTERSECTIONS, THEY SHALL BE PLACED IN SUCH A WAY AS TO NOT OBSCURE SIGHT DISTANCE.
11. THE CONTRACTOR SHALL PROVIDE PROPERTY OWNERS WITH PROPER ACCESS TO THEIR DRIVEWAYS AT ALL TIMES. ALL WORK TO BE APPROVED BY THE ENGINEER.



DETAIL 1
NOT TO SCALE

NOTES:

1. THE SIGN PANELS SHALL BE MOUNTED ON SEPARATE SIGN SUPPORTS, NOT ON THE TYPE III BARRICADES.
2. REFER TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES SECTION 6F FOR THE DIRECTION OF STRIPING ON THE BARRICADES.
3. SIGN PANELS SHALL BE INCLUDED IN ITEM 619.01. TYPE III BARRICADES TO BE PAID UNDER ITEM 619.04 AND THE CONCRETE BARRICADES SHALL BE PAID UNDER ITEM 619.1701.
4. ANY LIGHTING USED ON TYPE III BARRICADES SHALL BE INCLUDED IN THE COST OF THE BARRICADES, ITEM 619.04.



CULVERT LONGITUDINAL SECTION

ASHFORD 22

SCALE: 1" = 20'-0"



Greenman-Pedersen, Inc.
Engineering and Construction Services

Buffalo • Rochester • Jamestown
(716) 633-4844 • (585) 486-4859 • (716) 486-2803

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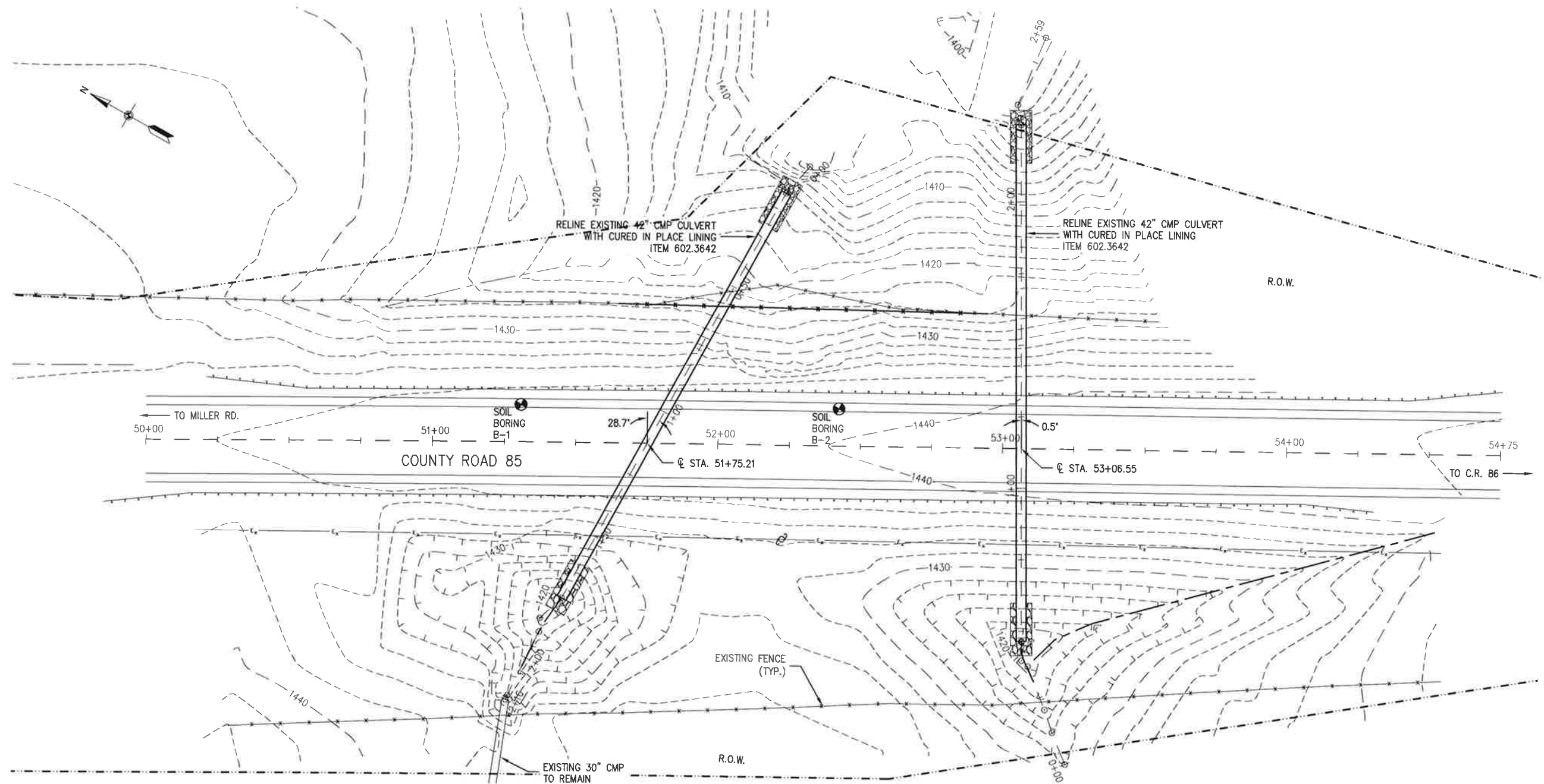
SCALE	AS NOTED	DRAWN BY:	NDB	CHECKED BY:	BJC	DATE
DATE:	MAY 2018	JOB NO.:	BUF-2017051.00	BY:	DATE	
DWG NO.:	2017091.00_PL_GP-01.DWG	REVISIONS:				
NO.						

LONGITUDINAL SECTION
ASHFORD 22

CR-85 CULVERT LININGS
TOWN OF ASHFORD, CATTARAUGUS COUNTY, NY

SHEET NO.

C-6



GENERAL PLAN
CULVERTS C85-24569 AND C85-24439

SCALE: 1" = 20'-0"
0 20' 40'
SCALE IN FEET

NOTES:

1. CLEAR AND GRUB AT THE INLET AND OUTLET OF CULVERTS TO PROVIDE ACCESS FOR THE RELINING EQUIPMENT, PAID UNDER ITEM 201.06.
2. A TEMPORARY WATERWAY DIVERSION STRUCTURE - ITEM 553.030002 (C85-24569) AND 552.030003 (C85-24439) TO DIVERT THE STREAM CHANNELS DURING CULVERT LINING.
3. IF THE CONTRACTOR'S LINING OPERATIONS REQUIRE DISTURBANCE OF THE GROUND AROUND THE STREAM, A SILT FENCE - ITEM 209.13 AND TURBIDITY CURTAIN - ITEM 209.1501 SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER.

Greenman-Pedersen, Inc.
Engineering and Construction Services
In Western New York
BUFFALO • ROCHESTER • JAMESTOWN
(716) 633-4844 • (585) 486-4859 • (716) 586-2803

GPI

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SCALE: AS NOTED	DRAWN BY: NDB	CHECKED BY: BJC	DATE: MAY 2018	DWG NO: 2017091.00_PL_GP-01.DWG	JOB NO:	NO.	BY	DATE

GENERAL PLAN
CULVERTS C85-24569 & C85-24439
CR-85 CULVERT LININGS
TOWN OF ASHFORD, CATTARAUGUS COUNTY, NY

SHEET NO.

C-7

