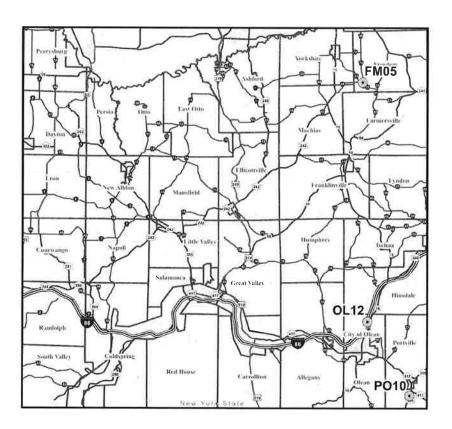
# CATTARAUGUS COUNTY DEPARTMENT OF PUBLIC WORKS

## PLANS FOR THE REPLACEMENT AND REPAIR OF BRIDGE JOINTS AT THREE LOCATIONS THROUGHOUT THE COUNTY.

P.I.N. 5762.50

B.I.N 3321550 - PIGEON HILL ROAD OVER ELTON CREEK, TOWN OF FREEDOM - FM05 B.I.N 3322840 - HASTINGS ROAD OVER OLEAN CREEK, TOWN OF OLEAN - OL12 B.I.N 3323050 - WEST RIVER ROAD OVER ALLEGHANY RIVER, TOWN OF PORTVILLE - P010

F SHEETS
DESCRIPTION
COVER SHEET
GENERAL NOTES
LOCATION MAPS
TRAFFIC CONTROL
TRAFFIC CONTROL
TRAFFIC CONTROL
JOINT DETAIL
JOINT DETAIL
JOINT DETAIL
CONCRETE REPAIR





DESCRIPTION OF WORK TO BE PERFORMED: BRIDGE JOINT REPLACEMENT, DECK, AND BACKWALL CONCRETE WORK

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, 2019 WITH CURRENT ADDITIONS AND MODIFICATIONS AND WITH SUBSEQUENT MODIFICATIONS ON THESE PLANS AND IN THE ITEMIZED PROPOSAL AND INSTRUCTIONS TO BIDDERS.

STANDARD SHEETS: 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 ALTERNO 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 BY

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

....

RECOMMENDED BY

KATHLEEN M. ELLIS COMMISSIONER CATTARAUGUS COUNTY DPW

MARK C. BURR, P.E. DIRECTOR OF ENGNEERING CATTARAUGUS COUNTY DPW

JAMES J. SNYDER CHAIRMAN CATTARAUGUS COUNTY LEGISLATURE

Cropus Bodoro	Greenman-Pederse Engineering and Construction In Western New York: ROCHESTER (716) 633-4844 (365) 486-4859											
			こう									
		ш										
BUC	BUF-2019044 00	BY DATE										
37:												

CATTARAUGUS COUNTY

BRIDGE JOINT REPAIR PROGRAM

CO - 1

### GENERAL NOTES

- CONSTRUCTION AND MATERIALS SPECIFICATIONS: STANDARD SPECIFICATIONS, CONSTRUCTION AND MATERIALS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, OFFICE OF ENGINEERING, US CUSTOMARY UNITS EDITION, DATED MAY 1, 2019, WITH CURRENT ADDITIONS AND MODIFICATIONS
- 2. ALL SHOP DRAWINGS SUBMITTED FOR THIS PROJECT SHALL USE US CUSTOMARY UNITS.
- 3 EXISTING LITHLITIES ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR IS REQUIRED TO VISIT INDIVIDIAL SITES TO SURVEY EXISTING OVERHEAD UTILITIES AND INDICATIONS OF BURIED UTILITIES PRIOR TO BIDDING.
- 4. THE CONTRACTOR SHALL CONTACT THE APPROPRIATE UNDERGROUND LOCATOR AGENCY TO FACILITATE THE MARKING OF ANY UNDERGROUND FACILITIES WITHIN THE WORK ZONE PRIOR TO THE START OF WORK AT EACH
- THE CONTRACTOR IS TO VISIT THE SITE BEFORE BIDDING, TO FAMILIARIZE THEMSELVES WITH THE FIELD CONDITIONS AND TO JUDGE FOR THEMSELVES 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/HER BID ALL ITEMS AND MATERIALS WHICH HE/SHE IS REQUIRED TO FURNISH IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 6. THE CONTRACTOR SHALL PROTECT HIS WORKERS AT ALL TIME IN CONFORMACE WITH APPLICABLE OHSA
- 7. IT WILL BE THE CONTRACTOR'S OBLIGATION AND RESPONSIBILTY TO USE METHODS AND EQUIPMENT WHICH WILL INSURE THE SATISFACTORY COMPLETION OF THE REQUIRED WORK WITH A MINIMUM OF DELAY.
- 8. ALL BRIDGES HAVE THE POTENTIAL OF BEING SUMMER ROOSTING HABITAT FOR THE NORTHERN LONG-EARED BAT (NLEB). THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 10 DAYS PRIOR TO THE START OF WORK AT THE BRIDGE. A BRIDGE/BAT SURVEY WILL BE CONDUCTED BY THE ENGINEER OF THE PRESENCE OF THE NLEB FOR ANY BRIDGE WORK THAT WILL TAKE PLACE BETWEEN MARCH 31 AND OCTOBER 1 AND/OR INVOLVED ACCESS TO THE UNDERSIDE OF THE BRIDGE OR DRILLING DOWN TO THE UNDERSIDE OF THE BRIDGE, INCLUDING BRIDGE PAINTING AND WASHING. THE SURVEY WILL BE CONDUCTED AND RESULTS PROVIDED WITHIN SEVEN (7) DAY OF THE CONTRACTOR'S NOTIFICATION. NO WORK ON THAT BRIDGE CAN COMMENCE UNTIL THE BRIDGE IS CLEARED THROUGH THE ENGINEER

### JOINT RECONSTRUCTION NOTES

- THE CONTRACTOR SHALL PERFORM ALL WORK WITH CARE SO THAT ANY MATERIALS WHICH ARE TO REMAIN IN PLACE, OR WHICH ARE TO REMAIN THE PROPERTY OF THE COUNTY, WILL NOT BE DAMAGED. IF THE CONTRACTOR DAMAGES ANY MATERIALS WHICH ARE TO REMAIN IN PLACE OR WHICH ARE TO REMAIN THE PROPERTY OF THE COUNTY, THE DAMAGED MATERIALS SHALL BE REPAIRED OR REPLACED IN A MANNER SATISFACTORY TO THE ENGINEER AT NO COST TO THE COUNTY
- WHENEVER ITEMS IN THE CONTRACT REQUIRE MATERIALS TO BE REMOVED AND DISPOSED OF. THE COST OF SUPPLYING A DISPOSAL AREA AND TRANSPORTATION TO THAT AREA SHALL BE INCLUDED IN THE UNIT PRICES RID FOR THOSE ITEMS.
- DURING REMOVAL OPERATIONS, THE CONTRACTOR SHALL NOT BE ALLOWED TO DROP WASTE CONCRETE, DEBRIS AND OTHER MATERIAL TO THE AREA BELOW THE BRIDGE. PLATFORMS, NETS SCREENS OR OTHER PROTECTIVE DEVICES SHALL BE USED TO CATCH THE MATERIAL. IF THE ENGINEER DETERMINES THAT ADQUEATE PROTECTIVE DEVICES ARE NOT BEING EMPLOYED, THE WORK SHALL BE SUSPENDED UNTIL ADQUEATE PROTECTION IS
- 4. ALL MATERIAL FALLING ON THE AREA BELOW AND ADJACENT TO THE BRIDGE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AT NO COST TO THE COUNTY.
- THE COST OF FURNISHING, INSTALLING, MAINTAINING, REMOVING AND DISPOSING OF ALL PLATFORMS, NETS, SCREENS OR OTHER PROTECTIVE DEVICES SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE APPROPRIATE
- 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,

### WORK ZONE TRAFFIC CONTROL NOTES

- 1. THE CONTRACTOR SHALL MAINTAIN TRAFFIC THROUGHOUT ALL SITES.
- 2. THE WORK ZONE TRAFFIC CONTROL PLANS SHOWN ARE TO BE CONSIDERED MINIMUM REQUIREMENTS. ADDITIONAL SIGNS AND/OR TRAFFIC CONTROL DEVICES MAY BE REQUIRED AS DETERMINED BY THE ENGINEER.
- 3. AT THE END OF EACH DAY'S OPERATIONS, THE JOINTS REQUIRING CURE TIME SHALL BE COVERED WITH STEEL ROADWAY PLATES AND THE ROADWAY OPENED TO NORMAL TWO-WAY TRAFFIC. LANE CLOSURES WILL ONLY BE ALLOWED FROM 7:00 AM TO 7:00 PM, MONDAY THRU FRIDAY. NO OVERNIGHT LANE CLOSURES WILL BE PERMITTED. ALL TRAFFIC CONTROL SIGNS AND DEVICES SHALL BE BAGGED OR TURNED AWAY FROM TRAFFIC DURING NON WORKING HOURS, EXCEPT FOR SIGNS THAT ALERT MOTORISTS TO THE PRESENCE OF A BUMP AT THE STEEL PLATES. ALL WORK ASSOCIATED WITH FURNISHING, PLACING AND MOVING THE STEEL PLATES AS WELL AS THE MANIPULATION OF THE TRAFFIC DEVICES SHALL BE INCLUDED IN THE ITEM 619.0101 "BASIC WORK ZONE TRAFFIC CONTROL (DAILY OPERATIONS)".
- TRAFFIC CONTROL DEVICES SHALL BE KEPT IN PROPER POSITION, CLEAN AND LEGIBLE. ALL DEVICES SHALL BE IN ACCORDANCE WITH THE FEDERAL MUTCO AND THE NYS SUPPLEMENT.
- THE CONTRACTOR MAY SUBMIT TO THE ENGINEER, IN WRITING, FOR REVIEW AND APPROVAL, PROPOSED REVISIONS TO THE WORK ZONE TRAFFIC CONTROL PLANS.
- ANY EXISTING SIGNS WHICH CONFLICT WITH THE TEMPORARY TRAFFIC CONTROL LAYOUT SHALL BE COVERED AS DIRECTED BY THE ENGINEER.
- SIGNS AND DELINEATION DEVICES AT OR NEAR INTERSECTIONS AND DRIVEWAYS SHALL BE PLACED SO THAT THEY DO NOT OBSTRUCT A MOTORIST'S LINE OF SITE.
- 8. THE MINIMUM LANE WIDTH FOR WORK ZONE TRAVEL LANES SHALL BE 10 FEET.
- VEHICLES BELONGING TO THE CONTRACTOR OR HIS EMPLOYEES SHALL NOT BE PARKED IN A MANNER WHICH OBSTRUCTS MOTORIST'S VIEW OF SIGNS BARRIERS BARRICADES OR OTHER TRAFFIC CONTROL DEVICES.
- 10. THE LOCATIONS OF THE SIGNS AND OTHER DEVICES SHOWN ON THE TRAFFIC CONTROL PLANS IN THE CONTRACT DOCUMENTS ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD AND AS DIRECTED BY THE ENGINEER.
- 11. ACCESS TO RESIDENTIAL AND COMMERCIAL DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES.
- 12. THE CONTRACTOR IS REQUIRED TO CONTACT THE APPROPRIATE SCHOOL AND EMERGENCY SERVICES ORGANIZATIONS WITH RESPECT TO THE TRAVEL LANE RESTRICTIONS AND DETOURS. THIS CONTACT SHALL BE MADE TWO WEEKS PRIOR TO IMPLEMENTING THE TRAFFIC CONTROL TO ALLOW ADQUEATE TIME FOR ORGANIZATIONS TO COORDINATE AND MAKE THE NECESSARY CHANGES TO SCHEDULES AND ROUTES.
- 13. THE CONTRACTOR SHALL MAINTAIN ONE LANE, TWO-WAY ALTERNATING TRAFFIC EXCEPT AS NOTED ON THE PLANS. CONTROL OF THE TRAFFIC FLOW SHALL BE DIRECTED BY THE USE OF FLAGGERS.
- 14. ALL FLAGGING OPERATIONS SHALL BE IN ACCORDANCE WITH PART 6, CHAPTER 6H OF THE FEDERAL MUTCD, NYS SUPPLEMENT, CONTRACT DOCUMENTS AND SECTION 619 OF THE NYS STANDARD SPECIFICATIONS.
- 15. ALL FLAG TREES SHALL HAVE A MINIMUM OF THREE (3) FLAGS.
- 16. AT ALL TIMES, THE CONTRACTOR SHALL PROVIDE FLAGGERS WITH A CLEAR ESCAPE ROUTE, FREE OF PARKED VEHICLES OR OTHER OBSTACLES. THE STATION SHALL BE LOCATED FAR ENOUGH AHEAD OF THE WORK SPACE TO ALLOW APPROACHING TRAFFIC SUFFICIENT DISTANCE TO STOP PRIOR TO ENTERING THE WORK AREA.
- 17. DURING NON-WORKING HOURS WHEN THE ROADWAY IS OPEN TO NORMAL TWO-WAY TRAFFIC AND STEEL PLATES ARE IN PLACE, A W8-1 "BUMP" SIGN SHALL BE PLACED ON ALL APPROACHES WHERE A BUMP IS PRESENT IN THE ROADWAY. A DRUM MOUNTED WITH A TYPE "A" FLASHING WARNING LIGHT SHALL BE PLACED ADJACENT TO THE BUMP. THE COST OF THESE ITEMS SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS WORK ZONE TRAFFIC CONTROL ITEMS.

### RIGHT OF WAY

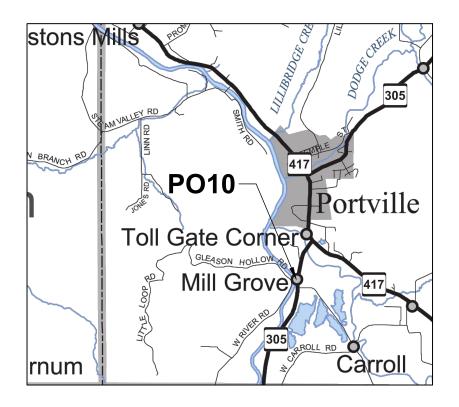
- ALL WORK TO BE PERFORMED UNDER THIS CONTRACT WILL BE WITHIN THE PUBLIC RIGHT-OF-WAY (ROW) IN ACCORDANCE WITH SECTION 105-15 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR IS TO ASSURE HIMSELF THAT ALL WORK IS BEING PERFORMED WITHIN THE ROW, INCLUDING BUT NOT LIMITED TO VEHICLE ACCESS; STORAGE OF EQUIPMENT, MATERIALS, DEBRIS AND WASTE; LANDSCAPING; VEGETATION REMOVAL AND MANAGEMENT; GRADING, SEEDING AND THE INSTALLATION OF TURF; AND THE INSTALLATION OF ANY FENCES OR PROTECTIVE BARRIER
- 2. IF CONTRACTOR IS UNABLE TO IDENTIFY THE LIMITS OF THE RIGHTS-OF-WAY WHEN THE CONTRACT CALLS FOR WORK IN THOSE VICINITIES, THE CONTRACTOR MUST CONTRACT THE ENGINEER IN CHARGE FOR DEFINITIVE BOUNDARY DETERMINATIONS BEFORE ANY WORK MAY BE INITIATED AT THOSE LOCATIONS (STANDARD SPECIFICATIONS SECTIONS 105-10 AND 625).
- 3. IN ACCORDANCE WITH SECTION 105-15 OF THE STANDARD SPECIFICATIONS, RELEASES FOR ANY NON-ESSENTIAL CONTRACT WORK OUTSIDE OF THE EXISTING RIGHTS-OF-WAY, INCLUDING PLANTINGS, LANDSCAPING OR DRIVEWAY ENHANCEMENT, WILL BE PROVIDED BY THE PROJECT ENGINEER AND IN NO INSTANCE ARE TO BE SECURED BY THE CONTRACTOR. THE CONTRACTOR SHALL NOT INVADE UPON PRIVATE PROPERTIES, LANDS OR BUILDINGS OUTSIDE OF THE RIGHTS-OF-WAY FOR ANY REASON WITHOUT FIRST SECURING WRITTEN PERMISSION FROM THE PROPERTY OWNER (STANDARD SPECIFICATIONS SECTION 105-15).
- THE CONTRACTOR WILL BE HELD LIABLE FOR ANY DAMAGES DONE. ANY SUCH INJURIES OR DAMAGES SHALL BE SATISFACTORILY REPAIRED OR ITEMS REPLACED AT THE CONTRACTOR'S EXPENSE (STANDARD SPECIFICATIONS SECTION 107-08).

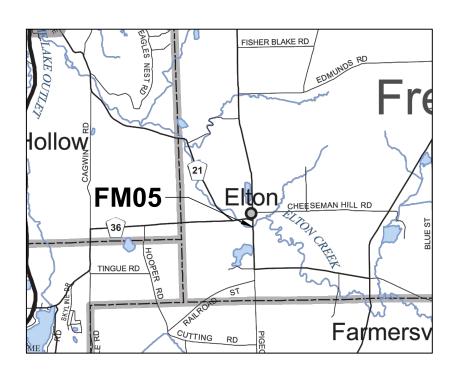
	ESTIMATE OF QUANT	TITIES	)
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
567.60	ARMORLESS BRIDGE JOINT SYSTEM	LF	124
567.64000116	REPLACING COMPRESSION SEAL FOR EXISTING BRIDGE JOINTS	LF	29
567.64000216	REPLACING COMPRESSION SEAL FOR EXISTING BRIDGE JOINTS	LF	29
580.01	REMOVAL OF STRUCTURAL CONCRETE	CY	4.5
582.06	REMOVAL OF STRUCTURAL CONCRETE — REPLACEMENT WITH CLASS D CONCRETE	SF	10
619.0101	BASIC WORK ZONE TRAFFIC CONTROL (DAILY OPERATIONS)	LS	1
627.50140008	CUTTING PAVEMENT	LF	196
697.03	FILED CHANGE PAYMENT	D-C	7300
699.040001	MOBILIZATION (4%)	LS	1

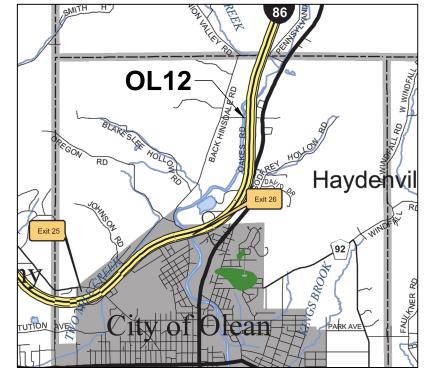
Inc JAME (716) Greenman-Pedersen, Engineering and Construction Ser BUFFALO 16) 633-484

		DATE:	DATE: 7/3/2019	CHECKED BY: BJC	BJC	
SH	GENERAL NOTES	DWG N	DWG NO.: BUF-2019044.00_GN	JOB NO.: BUF-2019044.00	BUF-20	019044.00
EE.		Ö.	REVISIONS:		ВУ	DATE
ΤN	\\ \tau \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\					
Ο.	CALLARAGEOS COUNTY REJOSE LOINT BEBAID BEOCEAM					

GN-1







WEST RIVER ROAD OVER ALLEGHANY RIVER - PO10
B.I.N 3323050
NOT TO SCALE

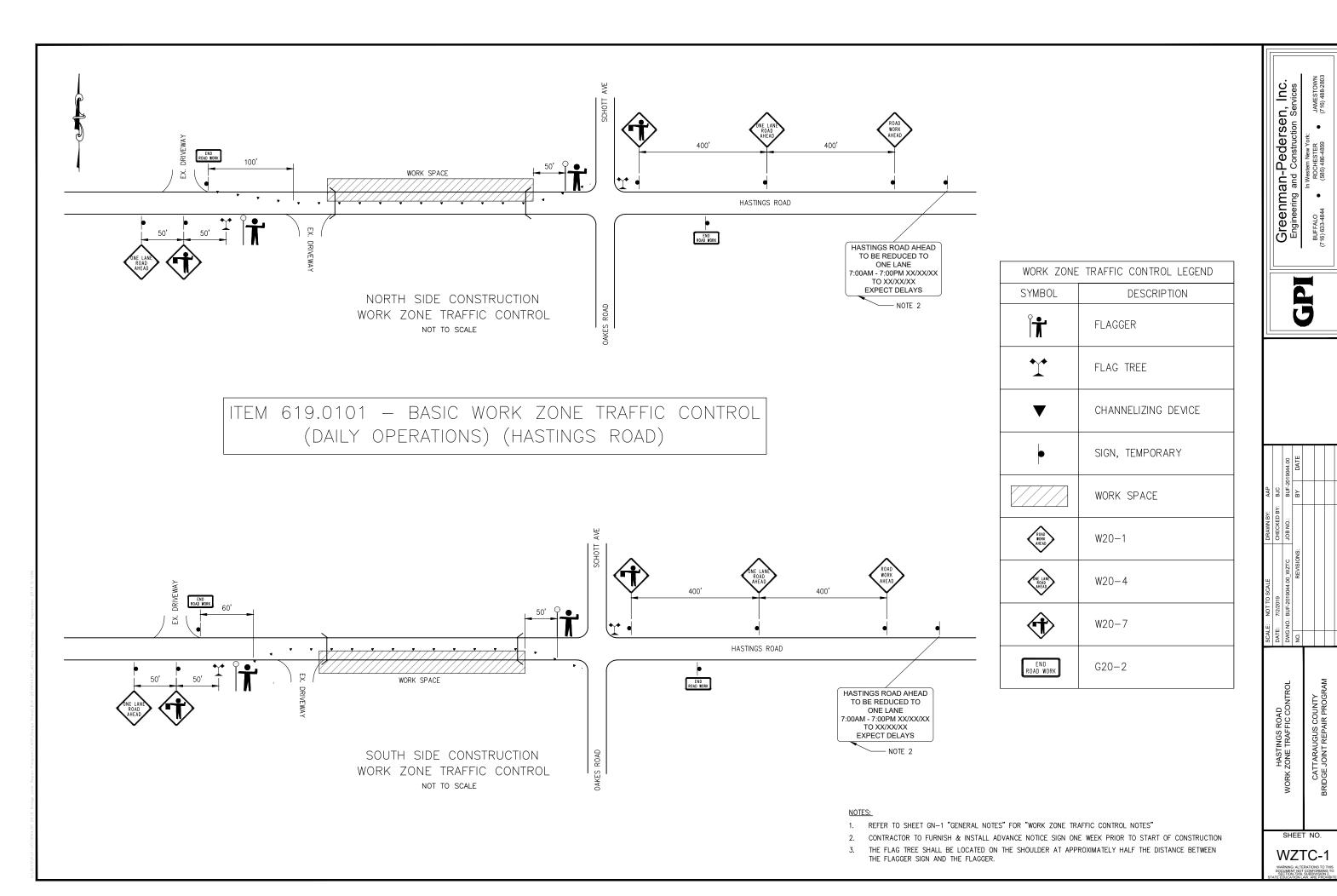
PIGEON HILL ROAD OVER ELTON CREEK — FM05

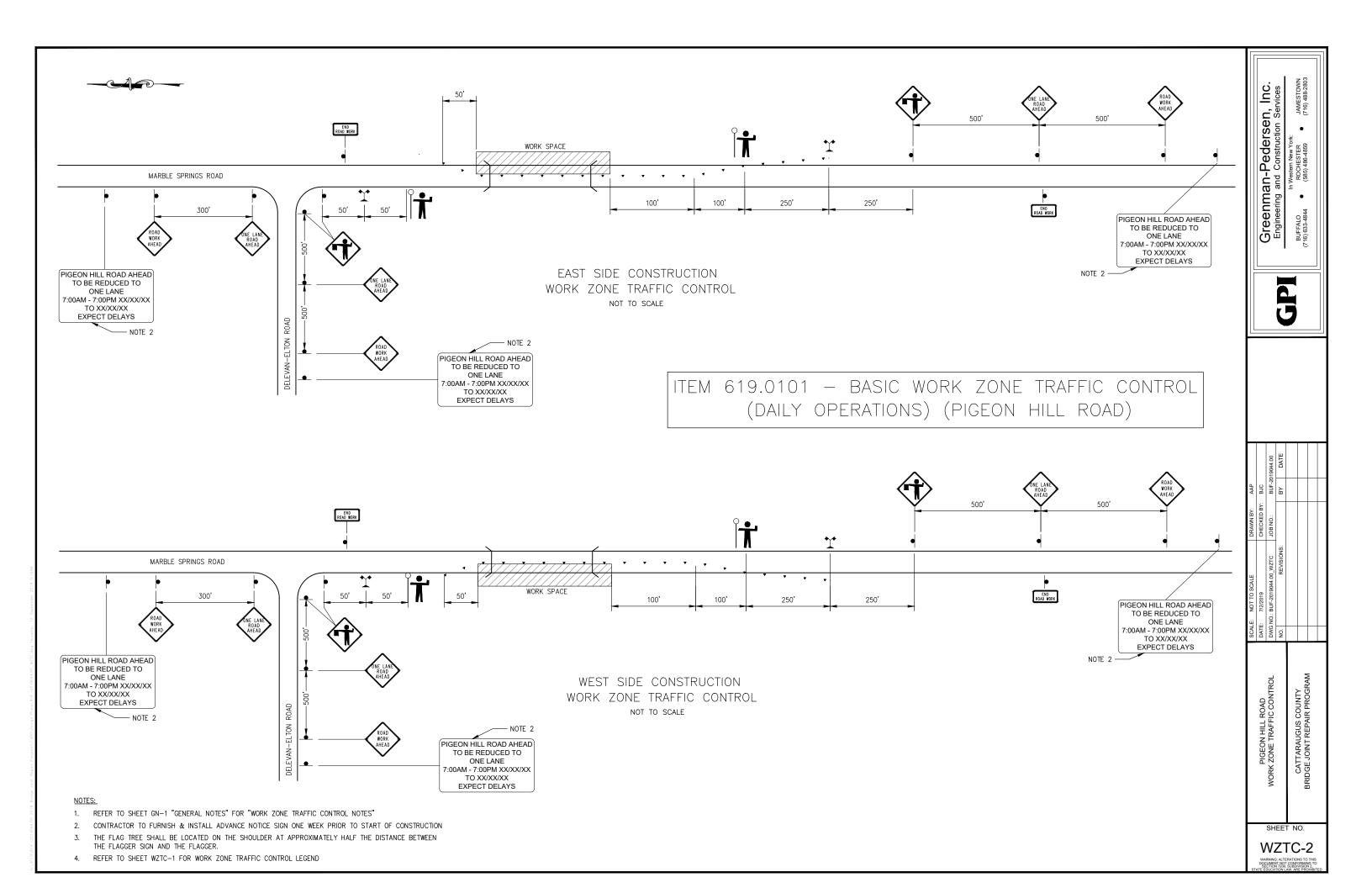
B.I.N 3321550

NOT TO SCALE

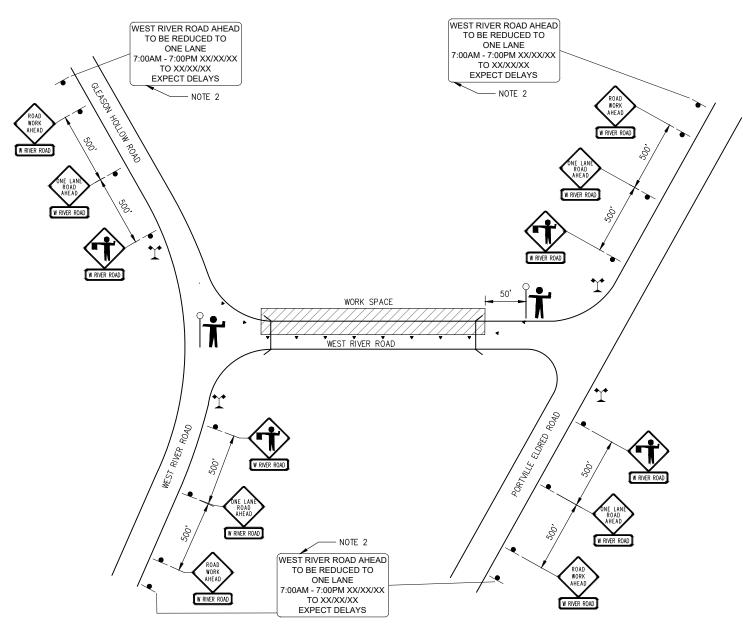
HASTINGS ROAD OVER OLEAN CREEK — OL12 B.I.N 3322840 NOT TO SCALE

	Crooman Dodoron Inc	Glecilliali-r edelsell, Illo.	Engineering and Construction Services	In Western New York:	(716) 633-484 (585) 486-4859 (716) 488-2803		
				こう			
DRAWIN BY: AAP	CHECKED BY: BJC	D.: BUF-2019044.00	BY DATE				
SCALE: NOT TO SCALE DRAY	DATE: 7/3/2019 CHEC	DWG NO.: BUF-2019044.00_LM JOB NO.:	NO. REVISIONS:				
	C F	LOCATION MAPS		\F! # 100 01 01 14 E # F # # 0	CALLARAGEOS COUNTY	MENDORY METAL MINISTER INCOME	
ŞJ	WA DOO SE ATE E	RNING	_N	T N	O.  1  NS TO ORMINITED PROVISION REPRO	THIS NG TO N 2, DHIBIT	ED



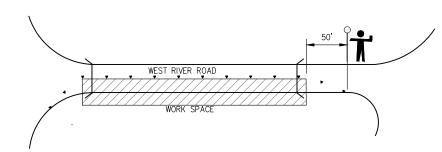






NORTH SIDE CONSTRUCTION
WORK ZONE TRAFFIC CONTROL
NOT TO SCALE

ITEM 619.0101 — BASIC WORK ZONE TRAFFIC CONTROL (DAILY OPERATIONS) (WEST RIVER ROAD)



SOUTH SIDE CONSTRUCTION

WORK ZONE TRAFFIC CONTROL (NOTE 3)

NOT TO SCALE

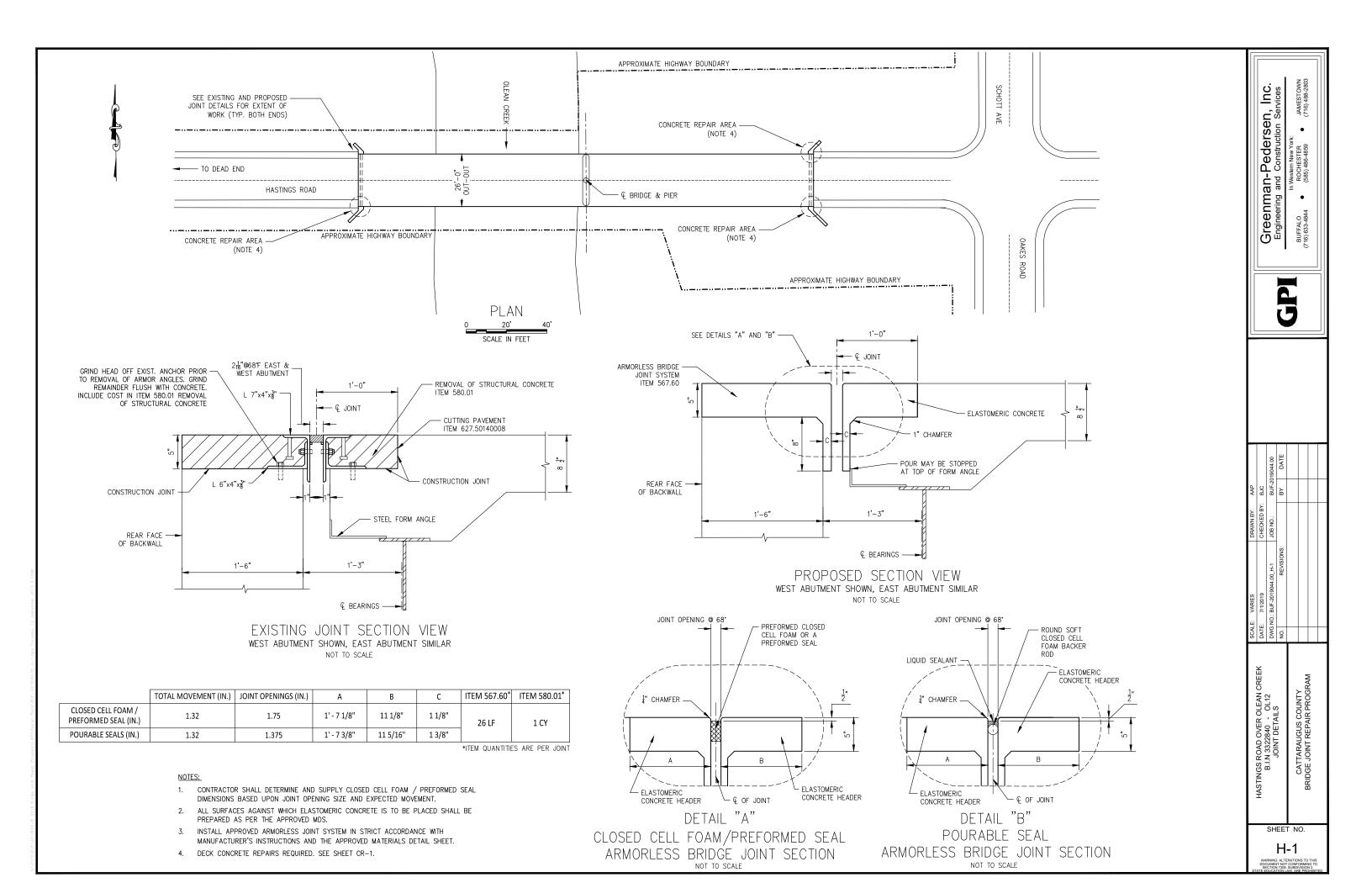
### NOTE

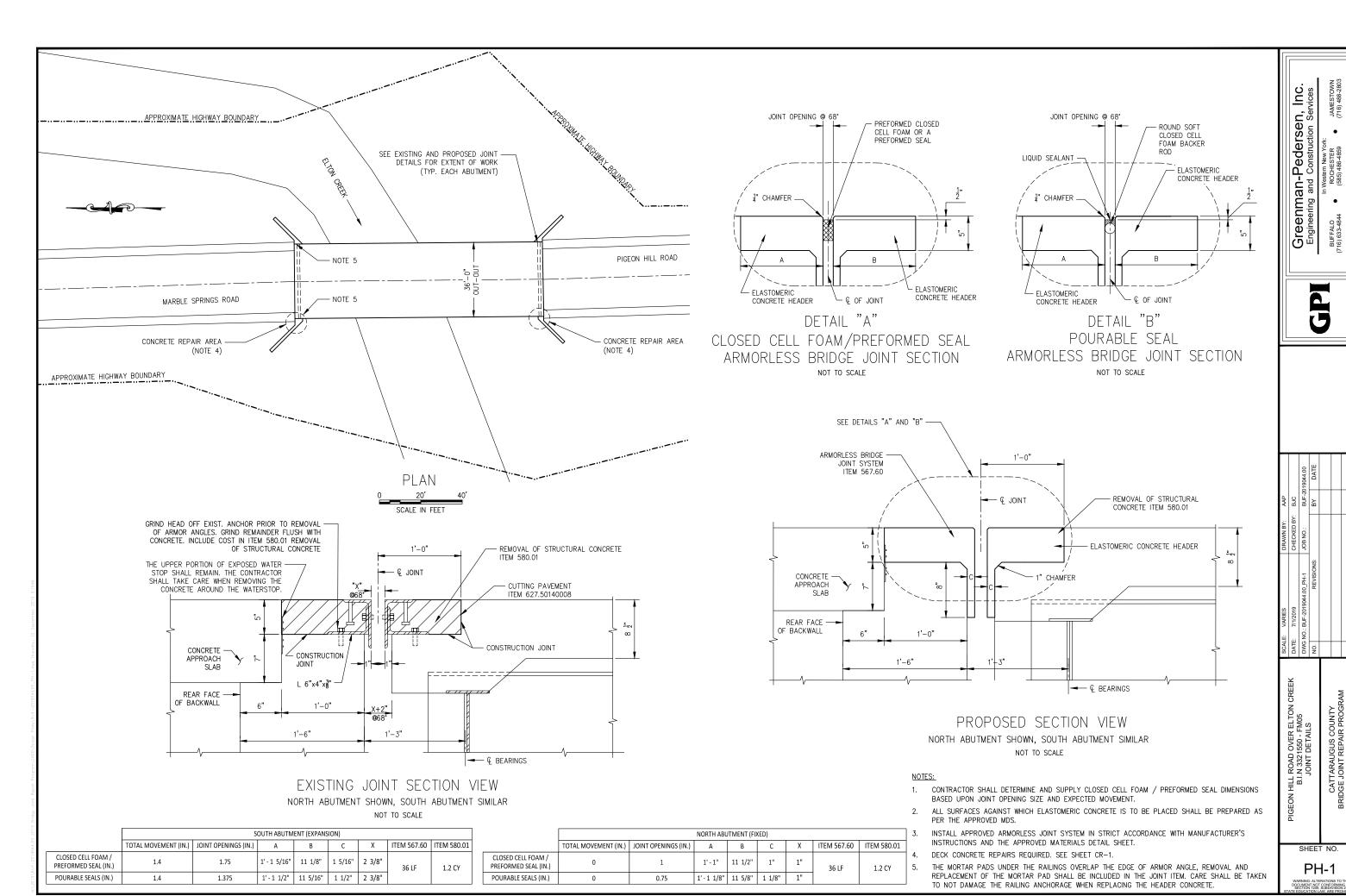
- 1. REFER TO SHEET GN-1 "GENERAL NOTES" FOR "WORK ZONE TRAFFIC CONTROL NOTES"
- CONTRACTOR TO FURNISH & INSTALL ADVANCE NOTICE SIGN ONE WEEK PRIOR TO START OF CONSTRUCTION
- SOUTHSIDE CONSTRUCTION WORK ZONE TRAFFIC CONTROL SHALL BE IDENTICAL TO NORTHSIDE CONSTRUCTION WITH THE EXCEPTION OF CHANNELING DEVICE PLACEMENT
- 4. THE FLAG TREE SHALL BE LOCATED ON THE SHOULDER AT APPROXIMATELY HALF THE DISTANCE BETWEEN THE FLAGGER SIGN AND THE FLAGGER.
- 5. REFER TO SHEET WZTC-1 FOR WORK ZONE TRAFFIC CONTROL LEGEND

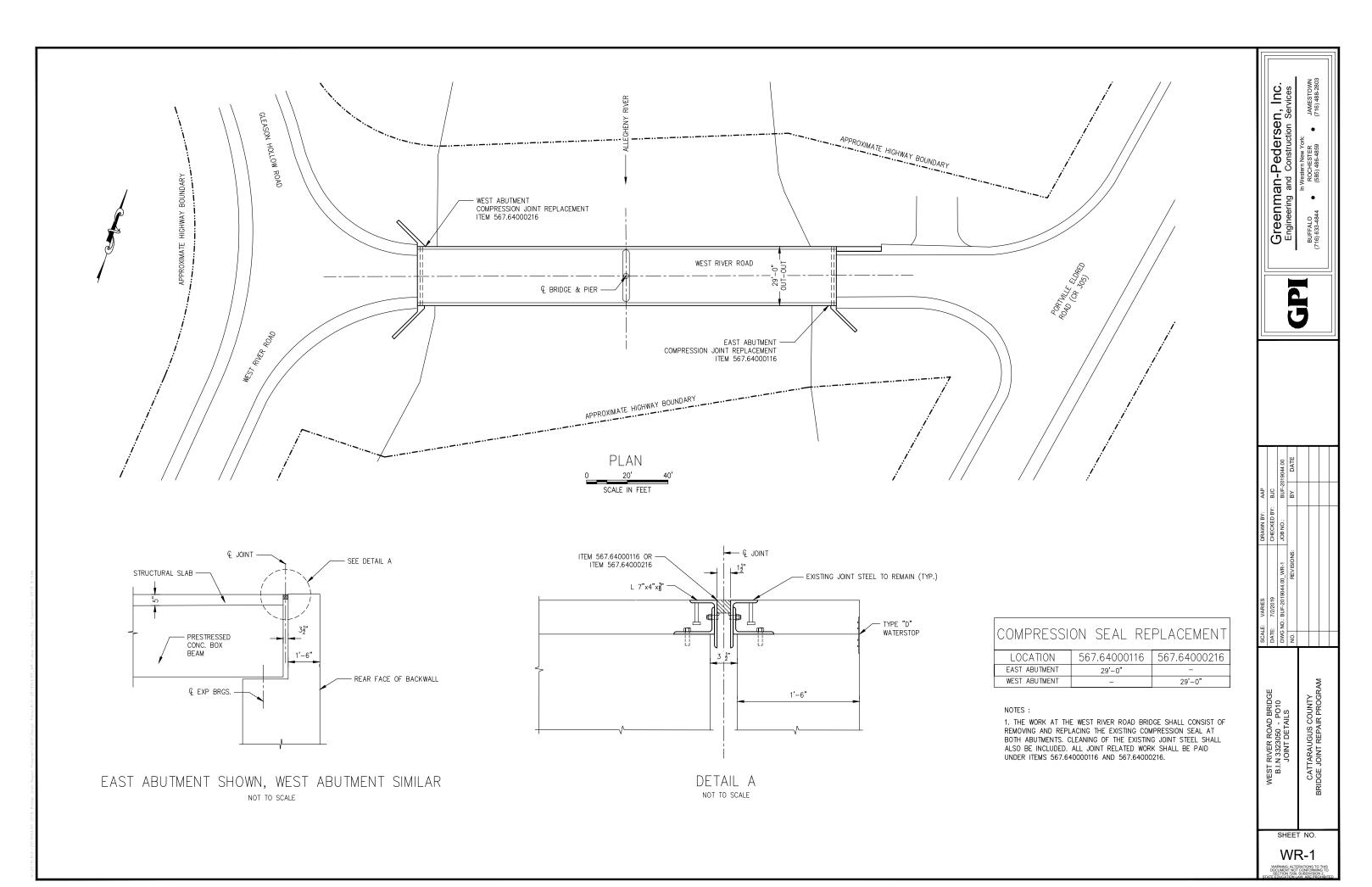
7	Greenma Engineering a	Engineering and Construction In Western New York:
	Z	Greenma Engineering a BUFFALO

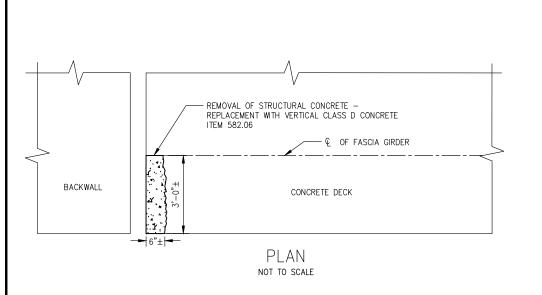
	SCALE	SCALE: NOT TO SCALE	DRAWN BY: AAP	AAP	
WEST RIVER ROAD	DATE:	DATE: 7/2/2019	CHECKED BY: BJC	BJC	
WORK ZONE TRAFFIC CONTROL	DWG NO.	DWG NO.: BUF-2019044.00_WZTC	JOB NO.:	BUF-20	BUF-2019044.00
	ON	REVISIONS:		ВУ	DATE
VEINI CO OI CITA DA TERA					
CALLARAGEDS COONTY					

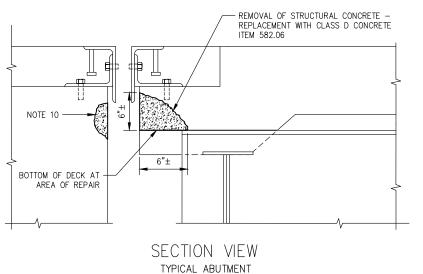
SHEET NO.
WZTC-3



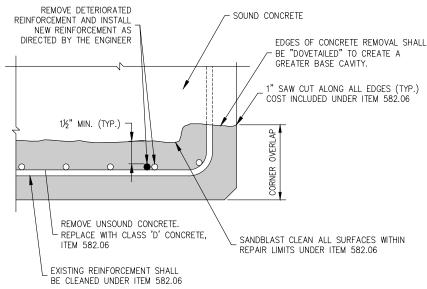








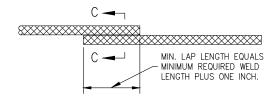
NOT TO SCALE



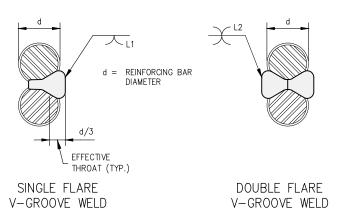
TYPICAL CONCRETE REPAIR SECTION, ITEM 582.06 SECTION A-A, SECTION B-B SIMILAR

### MIN. SPLICE LENGTH = 30 d THE BARS SHALL BE WIRED TOGETHER FOR THE LENGTH OF THE SPLICE

PLAN - LAPPED & TIED SPLICE



PLAN - WELDED SPLICE



SECTION C-C TYPICAL WELD DETAILS

		CC	ONCRETE DECK F	REPAIR TABLE (N	IOTE 11)	
	PIGEON F	HILL ROAD				
ITEMS	NORTHWEST	SOUTHWEST	SOUTHWEST	NORTHEAST	SOUTHEAST	SOUTHEAST ABUTMENT
ITEM 582.06 (SF)	1.5	1.5	1.5	1.5	1.5	1

### CONCRETE REPAIR NOTES:

- 1. DECK DETERIORATION ADJACENT TO THE JOINTS HAS BEEN DETERMINED BY A FIELD INSPECTION. ALL OF THE MAJOR AREAS KNOWN TO EXIST AT THE TIME HAVE BEEN SHOWN TO INDICATE THE APPROXIMATE EXTENT OF DETERIORATION THAT WILL HAVE TO BE REPAIRED BY THE CONTRACTOR.
- 2. AT ALL SUBSTRUCTURE CONCRETE REMOVAL LOCATIONS, THE MINIMUM DEPTH OF REMOVAL SHALL BE A DEPTH NO LESS THAN 1½" FROM THE REARMOST POINT OF EXPOSED REINFORCEMENT BAR, OR TO SOUND CONCRETE, WHICHEVER IS GREATER.
- 3. WHEN REMOVING CONCRETE, CARE SHALL BE TAKEN TO PROTECT AND PRESERVE ALL EXISTING REINFORCEMENT TO REMAIN TO THE SATISFACTION OF THE ENGINEER.
- 4. WHERE CONCRETE REMOVAL AND REPLACEMENT NECESSITATES ADJACENT SEPARATE CONCRETE PLACEMENTS, CONCRETE REMOVAL SHALL EXTEND A MINIMUM OF ONE FOOT BEYOND THE LIMIT OF THE FIRST CONCRETE PLACEMENT. THIS CLEAR SPACE WILL MINIMIZE THE NEGATIVE IMPACT OF ADJACENT CONCRETE REMOVAL OPERATION ON THE RECENTLY COMPLETED REPAIR.
- 5. IN SEQUENCING WORK, THE CONTRACTOR SHALL NOT BEGIN CONCRETE REMOVAL AT A LOCATION ADJACENT TO A COMPLETED REPAIR UNTIL A MINMUM OF 7 CURING DAYS HAVE PASSED.
- 6. AT CORNERS, WHERE HORIZONTAL AND VERTICAL SURFACES OR TWO VERTICAL SURFACES INTERSECT, PAYMENT WILL BE MADE FOR TOTAL REPAIR AREA, LESS THE CORNER OVERLAP AREA.
- 7. DETERIORATED REINFORCEMENT, AS DETERMINED BY THE ENGINEER, SHALL BE REPLACED IN-KIND, AND SPLICE USING A LAPPED AND TIED SPLICE AS SHOWN, WELDED SPLICE AS SHOWN, OR MECHANICAL COUPLERS AS APPROVED BY THE ENGINEER. ALL NEW REINFORCEMENT SHALL BE BLACK STEEL. COST OF THE REINFORCEMENT AND SPLICE INCLUDED UNDER ITEM 556.0201.
- 8. IF WELDED SPLICES ARE USED, WELDERS SHALL BE QUALIFIED IN ACCORDANCE WITH THE "NEW YORK STATE STEEL CONSTRUCTION MANUAL". FOR WELDING DETAILS, REFER TO SECTION 7 OF THE NEW YORK STATE STEEL CONSTRUCTION MANUAL.
- . DUE TO THE CONFINED AREAS REQUIRING REPAIR, THE CONTRACTOR MAY SUBSTITUTE SELF-CONSOLIDATING CONCRETE FOR CLASS D AT NO ADDITIONAL COST TO THE COUNTY.
- 10. THERE IS A SPALL ON THE SOUTHEAST CORNER OF THE ABUTMENT STEM DIRECTLY BELOW THE HEADER THAT SHALL BE REPAIRED UNDER ITEM 582.06.
- 11. THE DECK REPAIR AREAS IN THE TABLE ARE BASED ON DIMENSIONS ON THE UNDERSIDE OF THE DECK.

	Green Dederson	קופפוווומוו-ד מספואפון, ו	Engineering and Construction Serv	In Western New York:	(716) 633-4844 (585) 486-4859 (716)		
			בו	こう			
		4.00	DATE				
AAP	BUC	BUF-2019044.00	BY D				
DRAWN BY:	CHECKED BY: BJC	JOB NO.:					
E: VARIES		DWG NO.: BUF-2019044.00_CR	REVISIONS:				
SCALE	DATE	DWG	Ö				
		CONCRETE REPAIR DETAILS			CALLARAUGUS COUNTY		
H		SH	EE.	T N	0. <b>1</b>		
s	WA DOC SE STATE E	RNING CUMEN COTION DUCA	S: ALTE NT NOT N 7209, TION L	RATIO CONF SUBD AW, AF	NS TO ORMII IVISIOI RE PRO	THIS NG TO N 2, DHIBIT	ED