TRANSPORTATION MANAGEMENT PLAN - DESIGNATED TRAINED PERSON

ENSURE ALL INDIVIDUALS CONTRACTED BY, SECURED BY, DIRECTED BY OR EMPLOYED BY THE CONTRACTOR WHOM ARE INVOLVED IN THE DEVELOPMENT. DESIGN. IMPLEMENTATION. **OPERATION. INSPECTION AND ENFORCEMENT OF WORK ZONE** RELATED TRANSPORTATION MANAGEMENT AND TRAFFIC CONTROL HAVE BEEN TRAINED APPROPRIATE TO THE JOB DECISIONS EACH INDIVIDUAL IS REQUIRED TO MAKE. REPEAT TRAINING IN INTERVALS OF NO MORE THAN 5 YEARS TO REFLECT CHANGING PRACTICES.

DESIGNATE A TRAINED PERSON AT THE PROJECT LEVEL THAT HAS THE PRIMARY RESPONSIBILITY AND SUFFICIENT AUTHORITY FOR IMPLEMENTING AND MAINTAINING THE TRANSPORTATION MANEGEMENT PLAN (TMP) AND OTHER SAFETY AND MOBILITY ASPECTS OF THE PROJECT. FOR INFORMATION AND REQUIREMENTS REGARDING TMPs AND RELATED COMPONENTS SEE ODOT TRAFFIC MANAGEMENT IN WORK ZONE POLICY (21-008(P)) AND STANDARD PROCEDURE (123-001(SP)). MAINTAIN A 24-HOUR CONTACT FOR THE DESIGNATED TRAINED PERSON AND PROVIDE THIS CONTACT INFORMATION TO THE ENGINEER AT THE PRECONSTRUCTION CONFERENCE. THE DESIGNATED TRAINED PERSON SHALL BE PRESENT ON SITE FOR, AND INVOLVED WITH. EACH TEMPORARY TRAFFIC CONTROL SET UP/TAKE DOWN AND EACH PHASE CHANGE

THE DUTIES OF THE DESIGNATED TRAINED PERSON ARE AS FOLLOWS:

- 1. BE AVAILABLE ON A 24-HOUR PER DAY BASIS IN ACCORDANCE WITH C&MS 614.03.
- 2. BE AWARE OF ALL EXISTING AND PROPOSED TTC OPERATONS OF THE CONTRACTOR, SUBCONTRACTORS AND SUPPLIERS, AND ENSURE COORDINATION OCCURS BETWEEN THEM TO ELIMINATE CONFLICTING TEMPORARY AND/OR PERMANENT TRAFFIC CONTROL.
- 3. BE PRESENT. ON SITE FOR. AND INVOLVED WITH. EACH TEMPORARY TRAFFIC CONTROL (TTC) SET UP/TAKE DOWN AND EACH PHASE CHANGE IN ACCORDANCE WITH C&MS 614.03.
- 4. ENSURE THAT THE TTC ZONE AND ALL RELATED DEVICES ARE INSTALLED, MAINTAINED AND REMOVED IN COMPLIANCE WITH THE CONTRACT DOCUMENTS.
- 5. FACILITATE CORRECTIVE ACTION(S) NECESSARY TO BRING DEFICIENT TTC ZONES AND ALL RELATED DEVICES INTO COMPLIANCE WITH CONTRACT DOCUMENTS IN THE TIMEFRAME DETERMINED BY THE ENGINEER.

THE DEPARTMENT WILL DEDUCT:

- A. THE PRORATED DAILY AMOUNT OF ITEM 614 MAINTAINING TRAFFIC FOR ANY DAY IN WHICH THE DESIGNATED TRAINED PERSON FAILS TO PERFORM THE DUTIES SET FORTH ABOVE. THE PRORATED DAILY AMOUNT WILL BE EQUAL TO THE ORIGINAL BID AMOUNT FOR ITEM 614 MAINTAINING TRAFFIC DIVIDED BY THE DIFFERENCE BETWEEN THE ORIGINAL COMPLETION DATE AND THE FIRST DAY OF WORK. IN CALENDAR DAYS.
- B. 1% OF THE ORIGINAL BID AMOUNT FOR ITEM 614 MAINTAINING TRAFFIC FOR ANY DAY THAT A TTC ISSUE IS IDENTIFIED IN THE FIELD AND IS NOT CORRECTED IN THE GIVEN TIMEFRAME PER THE ENGINEER. DEDUCTION B SHALL NOT APPLY TO SITUATIONS COVERED BY DEDUCTION C.
- C. 1% OF THE ORIGINAL BID AMOUNT FOR ITEM 614 MAINTAINING TRAFFIC FOR ANY DAY THAT A LANE OR RAMP IS BLOCKED (FULLY OR PARTIALLY) WITHOUT TTC, AS DETERMINED BY THE ENGINEER. THIS DEDUCTION SHALL BE IN ADDITION TO ANY OTHER DISINCENTIVES ESTABLISHED FOR UNAUTHORIZED LANE USE.

FOR DAYS IN WHICH MORE THAN ONE DEDUCTION LISTED ABOVE OCCUR, THE HIGHEST DEDUCTION AMOUNT WILL APPLY.

PAYMENT FOR THE ABOVE REQUIREMENTS, RESPONSIBILITIES AND DUTIES SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614, MAINTAINING TRAFFIC.

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF C&MS 614 AND THE OMUTCD. A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

 DURING THE ENTIRE ADVANCE PREPARATION AND TRAFFIC IS REQUIRED.

IN ADDITION TO THE REQUIREMENTS OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHOULD BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS AS APPROVED BY THE ENGINEER:

- THE FOLLOWING CRITERIA:
- EXPRESSWAY; AND
- PERCENT TRUCKS)

"WITHOUT POSITIVE PROTECTION" MEANS USE OF DRUMS. CONES, SHADOW VEHICLE, ETC, WITHOUT PROTECTION FROM PORTABLE BARRIER OR OTHER RIGID BARRIER ALONG THE WORK AREA. THIS PHRASE DOES NOT APPLY TO CASES WHERE POSITIVE PROTECTION IS REQUIRED. MOBILE **OPERATIONS ARE REGARDED AS "WITHOUT POSITIVE** PROTECTION". FOR WORK ZONES USING A COMBINATION OF BARRIER AND TEMPORARY TRAFFIC CONTROL DEVICES (CONES, DRUMS, ETC), THE DESIGNATION SHALL BE BASED UPON THE TYPE OF DEVICES USED IN THE AREA THAT WORKERS ARE LOCATED.

IF MULTIPLE ACTIVE LOCALIZED QUALIFYING WORK AREAS OCCUR WITHOUT POSITIVE PROTECTION. PER MAINLINE TRAFFIC DIREC-TION. PROVIDE A UNIFORMED LEO AND OFFICIAL PATROL CAR IN ADVANCE OF:

- ENCOUNTER: OR
- OPEN TRAVELED LANE; OR

THE UNIFORMED LEO AND OFFICIAL PATROL CAR MAY RELOCATE AMONG THE LISTED LOCATIONS AS APPROPRIATE AS THE OPERATIONS PROCEED IN THE LOCALIZED QUALIFYING WORK AREAS.

3 9 S $\left| \mathbf{Q} \right|$ ш

4

ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS

CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF

• FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP).

 FOR OPERATIONS WITHOUT POSITIVE PROTECTION OCCURRING WITHIN 10 FEET OF AN OPEN TRAVELED LANE THAT MEET ALL OF

• ON A MULTI-LANE DIVIDED INTERSTATE. OTHER FREEWAY OR

○ AN AUTHORIZED SPEED LIMIT OF 45 MPH OR GREATER THAT IS IN EFFECT AT THE TIME OF THE OPERATION; AND, • AADT OF 50,000 (OR AADT OF 30,000 WITH 25% OR HIGHER

• THE FIRST ACTIVE WORK AREA THAT DRIVERS WILL

• THE ACTIVE WORK AREA LATERALLY CLOSEST TO THE OTHER LOCATIONS AS APPROVED BY THE ENGINEER.

ITEM 614. LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS (CONTINUED)

IN GENERAL. LEOS SHOULD BE POSITIONED IN ADVANCE OF AND ON THE SAME SIDE AS THE LANE RESTRICTION (OR AT THE POINT OF ROAD CLOSURE), AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH SIGNALIZED INTERSECTIONS IN WORK ZONES.

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL **RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE** TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS. THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT. AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

ENSURE PROVIDED LEOS HAVE BEEN TRAINED APPROPRIATE TO THE JOB DECISIONS THEY ARE REQUIRED TO MAKE WHILE ON THE PROJECT. IN ACCORDANCE WITH C&MS 614.03.

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT. IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE THAT SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

LEOS WITH PATROL CAR REQUIRED BY THE TRAFFIC MAINTEN-ANCE TASKS ABOVE SHALL BE PAID FOR ON AN HOURLY BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE ----- 500 HOURS

THE HOURS PAID SHALL INCLUDE ANY MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF A LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614. LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

ITEM 619, FIELD OFFICE, TYPE C THE LOCATION OF THE FIELD OFFICE WILL NEED TO BE APPROVED BY THE ENGINEER PRIOR TO LEASING. THE OFFICE SHALL NOT BE LEASED UNTIL CONSTRUCTION BEGINS OR AT THE DISCRETION OF THE ENGINEER.



INTERIM COMPLETION REQUIREMENTS

THE PROJECT HAS AN INTERIM COMPLETION DATE OF NOVEMBER 1. 2026. ON OR BEFORE THE INTERIM COMPLETION DATE, ALL WORK INCLUDING FENCE SHALL BE COMPLETED, EXCEPT BRIDGE PAINTING.

THE CONTRACTOR SHALL BE ASSESSED A DAILY DISINCENTIVE IN THE AMOUNT OF \$3,500 PER DAY FOR FAILURE TO COMPLETE ALL THE REQUIRED WORK AND ASSOCIATED INCIDENTALS RELATED TO THE WORK. DAILY DISINCENTIVES ARE APPLICABLE TO THE WORK REQUIRED TO THE INTERIM COMPLETION DATE ONLY. THE CONTRACTOR IS STILL SUBJECT TO LIQUIDATED DAMAGES AS OUTLINED IN C&MS 108.07 FOR THE REMAINDER OF THE CONTRACT.

escription or Location	Completion	Time	Disincentive \$
of Critical Work	Date	Period	per Time Period
ALL WORK EXCEPT BRIDGE PAINTING	11/1/2026	Day	\$3,500

S ш NOT ENERAL വ FIC TRAFI LL Ο Ш NTENANC È

DESIGN AGE	
	<u>×</u>
6 1	Ď
<u>ک</u>	Ś
<u>ب</u> ا	
L L	
DEGIONED	
	/A N/
	/AJV
REVI	EWER
JPC C)2/22/24
PROJECT ID	
102	2753
	TOTAL
SHEET	TOTAL

							S	HEET NUN	1.		
		P.07	P.08	P.09	P.16	P.18	P.19				
		10 10		500							
							1,550 4				
		10					33				
			8				33 608				
		0.11 0.22					1,550				
			LS								
	rison										
	27 PM USER: bga)2753_GG002.dgn										
	/2025 TIME: 3:47:: 80adway\Sheets\10										
	(in.) DATE: 3/13/ 400-Engineering\F										
-0.43	ERSIZE: 34x22 (ODOT\102753\2										
75	et PAPI 27\CAD [\]										
Ē-2	IEL: She 22\2208:										
[]	MOD Z:\20:										

		GRAND	ITEM		PART.		
DES	UNIT	TOTAL	EXT	ITEM	01/IMS/13		
STRUCTURFS							
FOR CLE-00275-0043 ESTIMATED QUANTITIES							
MAINTEN							
TRAFFIC COMPACTED SURFACE, TYPE A OR B	СҮ	10	12000	410	10		
TRAFFIC COMPACTED SURFACE, TYPE C	СҮ	10	13000	410	10		
LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTA	HOUR		11110	614			
WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UN	EACH	4	11030	614	4		
		10	13000	614			
BARKIER REFLECTOR, TYPE 1, UNIDIRECTIONAL		33	13310	614	33		
MAINTAINING TRAFFIC MISC MON-REINFORCED CONCRETE		55 608	18010	61/	55 608		
PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	SNMT	8	18601	614	8]
WORK ZONE CENTER LINE, CLASS III, 642 PAINT	MILE	0.11	21550	614	0.11		
PORTABLE BARRIER, UNANCHORED	FT	1,550	41100	614	0.22		
			11000	617			
	MNTH	12	16020	619	12		
CONSTRUCTION LAYOUT STAKES AND SURVEYING		LS	10020	623			
MOBILIZATION		LS	10000	624	LS]
MAINTAINING ITS DURING CONSTRUCTION		LS	70000	809	LS		
I	1	1	1			1	

DESCRIPTION	SEE SHEET NO.	
STRUCTURES OVER 20 FOOT SPAN ED QUANTITIES	P.32	
MAINTENANCE OF TRAFFIC E, TYPE A OR B		
, TYPE C M/ITH PATROL CAR FOR ASSISTANCE		
TOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)		
ITAINING TRAFFIC INIDIRECTIONAL		
NON-REINFORCED CONCRETE LEVELING PAD, 6" THICK AGE SIGN, AS PER PLAN	P.08 P.08	
ASS III, 642 PAINT 5 III, 4", 642 PAINT DRED		
		≿
INCIDENTALS		AR
ES AND SURVEYING		MML
NSTRUCTION		SL
		AL
		R,
		Z
		GE
		DESIGN AGENCY
)e(
		;ht
		ΞĴ
		designer JBT
		PROJECT ID 102753
		SHEET TOTAL P.15 70

MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR BLACK REBAR PUBLISHED IN THE ICC-ES REPORTS LISTED BELOW.

THE HOLES FOR THE DOWEL BARS SHALL BE DRILLED WITH A HAMMER DRILL AND CARBIDE BIT. PRIOR TO THE INSTALLATION OF THE ANCHORS, THE HOLES SHALL BE CLEANED AND DRIED IN A MANNER CONSISTENT WITH THE NAUMUFACTURER'S REQUIREMENTS FOR DRY CONCRETE.

SELECT FROM ONE OF THE FOLLOWING APPROVED PRODUCTS:

HILTI HIT-HY 200 ADHESIVE ANCHORS (ICC-ES REPORT ESR-3187)

DEWALT PURE110+ EPOXY ADHESIVE ANCHOR SYSTEM (ICC-ES REPORT ESR-3298)

SIMPSON STRONG-TIE SET-3G EPOXY ADHESIVE ANCHORS (ICC-ES REPORT ESR-4057)

ATC ULTRABOND HS-1CC ADHESIVE ANCHOR SYSTEM (ICC-ES REPORT ESR-4094)

THE MANUFACTURER'S INSTALLATION INSTRUCTIONS PUBLISHED IN THE ICC-ES REPORTS FOR ACCEPTABLE PRODUCTS ARE AVAILABLE AT: WWW.ICC-ES.ORG/EVALUATION-REPORT-PROGRAM/REPORTS-

DIRECTORY

PRIOR TO DRILLING HOLES, LOCATE EXISTING REINFORCING STEEL BARS IN THE AREA OF THE HOLE WITH THE AID OF A REINFORCING STEEL BAR LOCATOR (PACHOMETER). IF AN EXISTING BAR IS ENCOUNTERED AT THE SAME LOCATION AS A PROPOSED DOWEL HOLE. MOVE THE DOWEL TO EITHER SIDE OF THE EXISTING BAR. THE DEPARTMENT WILL PAY FOR DOWEL HOLES AND GROUTING WITH ITEM 510 - DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN.

ITEM 511, CLASS QC SCC CONCRETE, SUPERSTRUCTURE, AS PER PLAN

THIS PAY ITEM INCLUDES CONCRETE BRIDGE RAILING ON AND ABOVE THE UPPER SURFACE OF THE APPROACH SLABS ONLY AND OTHER ITEMS SPECIFIED IN STANDARD DRAWINGS SBR-1-20 AND BR-2-15. LIGHTWEIGHT CONCRETE SHALL NOT BE USED FOR THE BRIDGE RAILING ON THE APPROACH SLABS. ALL STEEL REINFORCEMENT SHALL BE PAID FOR SEPARATELY.

ITEM 511, CLASS QC3 CONCRETE, MISC.: LIGHTWEIGHT, SIDEWALK GENERAL REQUIREMENTS: THE PROVISIONS OF CMS 511 SHALL APPLY EXCEPT AS NOTED BELOW.

THE CONCRETE FOR THE SIDEWALK SHALL HAVE A MAXIMUM DRY WEIGHT OF 120 LBS/CF. THE AGGREGATE SHALL BE WELL-GRADED AND MEET THE REQUIREMENTS OF ASTM C330. COMPRESSIVE STRENGTH SHALL BE 4500 PSI AT 28 DAYS. DESIGN PERMEABILITY SHALL BE LESS THAN 1500 COULOMBS. AIR CONTENT SHALL BE 7±2% FOR CONCRETE WITH A 1 INCH NOMINAL MAXIMUM SIZE AGGREGATE OR 8±2% FOR CONCRETE WITH A 3/8 INCH NOMINAL MAXIMUM AGGREGATE SIZE. ALL COARSE AGGREGATE SHALL HAVE AN ABSORPTION OF 1.00% OR GREATER AS DEFINED PER ASTM C127. SUBMIT THE MIX DESIGN FOR REVIEW AND APPROVAL AS PER SUPPLEMENT 1126 PRIOR TO USE. THIS LIGHTWEIGHT CONCRETE WILL ONLY BE USED ON THE SIDEWALK ON THE BRIDGE DECK. LIGHTWEIGHT CONCRETE SHALL NOT BE USED ON THE SIDEWALK ON THE APPROACH SLABS.

ALL STEEL REINFORCEMENT WILL BE PAID FOR SEPARATELY.

ITEM 511, CLASS QC SCC CONCRETE, BRIDGE DECK (PARAPET), AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ODOT CLASS QC SCC. THE CONCRETE FOR THE CONCRETE BRIDGE RAILINGS SHALL HAVE A MAXIMUM DRY WEIGHT OF 120 LBS/CF AND THE AGGREGATE SHALL MEET THE REQUIREMENTS OF ASTM 330. COMPRESSIVE STRENGTH SHALL BE 4500 PSI AT 28 DAYS. DESIGN PERMEABILITY SHALL BE LESS THAN 1500 COULOMBS. AIR CONTENT SHALL BE 7±2% FOR CONCRETE WITH A 1 INCH NOMINAL MAXIMUM SIZE AGGREGATE OR 8±2% FOR CONCRETE WITH A 3/8 INCH NOMINAL MAXIMUM AGGREGATE SIZE. ALL COARSE AGGREGATE SHALL HAVE AN ABSORPTION OF 1.00% OR GREATER AS DEFINED PER ASTM C127. SUBMIT THE MIX DESIGN FOR REVIEW AND APPROVAL AS PER SUPPLEMENT 1126 PRIOR TO USE. THIS LIGHTWEIGHT CONCRETE WILL ONLY BE USED ON THE CONCRETE BRIDGE RAILINGS ON THE BRIDGE DECK. LIGHTWEIGHT CONCRETE SHALL NOT BE USED FOR THE BRIDGE RAILINGS ON THE APPROACH SLABS.

ALL STEEL REINFORCEMENT WILL BE PAID FOR SEPARATELY.

ITEM 511, CONCRETE, MISC.: FORMLINER THE FOLLOWING REQUIREMENTS APPLY TO AREAS LABELED "TEXTURE TYPE A" AS SHOWN IN THE PLANS. WHERE "TEXTURE A" IS NOT INDICATED. THE CONCRETE IS TO BE FINISHED IN ACCORDANCE WITH C&MS 511.

FORMLINERS ARE TO BE MADE OF PLASTICIZED POLYVINYL CHLORIDE HAVING THE PROPERTY OF LONG-TERM FORM-RELEASE CAPABILITY FOR REUSE AND DURABILITY. THE MATERIAL IS TO HAVE SUFFICIENT FIRMNESS TO RESIST DEFORMATION FROM FRESHLY PLACED CONCRETE AND HAVE SUFFICIENT PLIABILITY TO PERMIT REMOVAL WITHOUT DAMAGE TO THE FORMLINERS OR TO EARLY AGE CONCRETE.

FORMLINERS ARE TO HAVE A SHORE A FIRMNESS OF **APPROXIMATELY 25.**

THE MAXIMUM THICKNESS OF THE DEEPEST UNDERCUTS IN THE TEXTURED FORMLINERS IS TO BE 1" IN DEPTH.

FORMLINER PANELS ARE TO BE A MINIMUM OF 4'-0" IN LENGTH AND PROVIDE CONTINUOUS LINERS FOR VERTICAL DIMENSIONS. IF DIMENSIONS TO BE FORMED ARE SMALLER THAN 4'-0" IN LENGTH, THE FORMLINER PANEL IS TO MATCH THAT OF THE AREA TO WHICH IT IS BEING APPLIED.

FORMLINERS ARE TO BE INSTALLED IN THE FORMS TO PROVIDE THE DIMENSIONAL RELATIONSHIP BETWEEN THE TEXTURED AND FLAT CONCRETE SURFACES AS SHOWN IN THE PLANS. FORMLINERS ARE TO BE ATTACHED FIRMLY TO PRIMARY FORM ELEMENTS TO ENSURE THAT THE FORMLINERS WILL BE TRUE AND STRAIGHT IN THE VERTICAL POSITION. ADJACENT EDGES OF FORMLINER PANELS ARE TO BE OVERLAPPED BY 1/16" ON EITHER SIDE OF EACH PANEL.

AFTER FORMS ARE STRIPED, IMPERFECTIONS IN THE FINISHED CONCRETE IS TO BE PATCHED WITH THE SAME MATERIALS AND MIX USED IN THE CONCRETE POUR TO RESTORE FULLY THE TEXTURED SURFACES TO THE SATISFACTION OF THE ENGINEER. "TEXTURE TYPE A" IS TO BE AS FOLLOWS:

TEXTURES TO BE OBTAINED THROUGH THE USE OF FORMLINERS ARE TO BE A SLIGHTLY ROUGH. GRANULAR SURFACE SIMILAR TO THE FOLLOWING STANDARD FORMLINER TEXTURE PATTERN, OR APPROVED EQUAL:

PATTERN NO.	DESCRIPT
17027	ASHLAR
F70621	AGED ASH
2025	ASHLAR

4

Q

S

 \mathbf{N}

Ш

TON	MANUFACTURER
	FITZGERALD FORMLINERS
ILAR	SYMONS (DAYTON SUPERIOR)
	CUSTOM ROCK FORMLINER

ITEM 511, CONCRETE, MISC.: FORMLINER (CONTINUED) FORMLINER MANUFACTURER INFORMATION: FITZGERALD FORMLINERS 1500 EAST CHESTNUT AVENUE SANTA ANA, CA 92701 PHONE: (714)547-6710

DAYTON SUPERIOR CORPORATION 1125 BYERS ROAD MIAMISBURG, OH 45342 PHONE: (937)866-0711

CUSTOM ROCK FORMLINER 2020 WEST 7TH STREET ST. PAUL, MN 55116 PHONE: (651)699-1345

PRIOR TO BEGINNING ANY WORK, REPRESENTATIVE SHOP DRAWINGS DETAILING THE LAYOUT OF THE FINISHED PATTERN AND JOINT LOCATIONS, FORM TIE LOCATIONS, AND END, EDGE AND OTHER SPECIAL CONDITIONS ARE TO BE SUBMITTED TO THE FIELD ENGINEER FOR APPROVAL A MINIMUM OF FOURTEEN (14) DAYS PRIOR TO BEGINNING WORK.

A PRE-INSTALLATION MEETING IS TO BE SCHEDULED WITH THE FIELD ENGINEER, CONTRACTOR, AND MANUFACTURER TO ASSURE THE UNDERSTANDING OF FORMLINER USE. AND REQUIREMENTS AND COORDINATION OF THE WORK. A REPRESENTATIVE FROM THE MANUFACTURER IS TO BE PRESENT FOR THE INITIAL SETUP. CONCRETE PLACEMENT, AND STRIPPING OF THE FORMLINERS.

PAYMENT FOR FORMLINERS AND AESTHETIC TREATMENTS. INCLUDING ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO PROVIDE THE FINAL PRODUCT. TO BE MADE UNDER ITEM 511, CONCRETE MISC .: FORMLINER.

ITEM 512. SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) ALL EXPOSED SURFACES AS SHOWN IN THE PLANS SHALL BE SEALED WITH EPOXY-URETHANE SEALER. THE COLOR SHALL BE FEDERAL COLOR NUMBER 17778 (LIGHT NEUTRAL). THE SURFACES TO BE SEALED SHALL HAVE SURFACE PREPARATION PER C&MS 512.03(F). THE SURFACE AREA PAY QUANTITY IS BASED ON A FLAT SURFACE. ANY ADDITIONAL SEALING COSTS DUE TO THE FORMLINER SHALL BE INCLUDED IN THE UNIT BID FOR THIS ITEM.

ITEM 514, SURFACE PREPARATION OF EXISTING STRUCUTRAL STEEL ITEM 514, FIELD PAINTING OF EXISTING STRUCTURAL STEEL THE ENDS OF BEAMS 1 THROUGH 5 TO BE ENCASED WITHIN THE ABUTMENT DIAPHRAGMS ARE TO BE BLASTED PER 514.13 AND PAINTED WITH ORGANIC ZINC PRIME COAT PRIOR TO ENCASEMENT. THE PRIME COAT SHALL BE 708.02B. ALL SURFACE PREPARATION OF THE EXISTING STRUCTURAL STEEL FOR FIELD PAINTING WILL BE PAID FOR UNDER ITEM 514. SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL. ALL PRIME COAT APPLICATION ON THE EXISTING STRUCTURAL STEEL WILL BE PAID FOR UNDER ITEM 514, FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT.

ITEM 514, FIELD PAINTING OF EXISTING STRUCTURAL STEEL EXISTING STEEL SHALL BE CLEANED AND PAINTED WITH A PRIME. INTERMEDIATE AND FINISH COAT OF PAINT IN THE FIELD USING OZEU. THE COLOR OF THE FINISHED COAT SHALL BE GREEN. FEDERAL COLOR NUMBER FS-595C-14277.

ITEM 516, JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN THIS WORK CONSISTS OF RAISING OR RE-POSITIONING EXISTING STRUCTURES TO THE DIMENSIONS AND REQUIREMENTS DEFINED IN THE PROJECT PLANS. SUBMIT CONSTRUCTION PLANS IN ACCORDANCE WITH C&MS 501.05. IF. DURING THE JACKING OPERATIONS. DAMAGE TO THE STRUCTURE IS VISUALLY OBSERVED. IMMEDIATELY CEASE THE JACKING OPERATION AND INSTALL SUPPORTS TO THE SATISFACTION OF THE ENGINEER. ANALYZE THE DAMAGE AND SUBMIT A METHOD OF CORRECTION TO THE ENGINEER FOR APPROVAL. THE DEPARTMENT WILL NOT PAY FOR THE COST OF REQUIRED REPAIRS. THE BRIDGE BEARINGS SHALL BE FULLY SEATED AT ALL CONTACT AREAS. IF FULL SEATING IS NOT ATTAINED. SUBMIT A REPAIR PLAN TO THE ENGINEER. THE DEPARTMENT WILL NOT PAY FOR THE REPAIR COSTS TO ENSURE FULL SEATING ON BEARINGS. THE DEPARTMENT WILL MEASURE THIS WORK ON A LUMP SUM BASIS. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES AT THE CONTRACT PRICE FOR ITEM 516, JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE. AS PER PLAN.

ITEM 519. PATCHING CONCRETE STRUCTURE. AS PER PLAN THE QUANTITY GIVEN IN THE ESTIMATED QUANTITY TABLE HAS BEEN ESTIMATED FROM FIELD INSPECTION AND ORIGINAL PLANS. THE ACTUAL AREA OF PATCHING SHALL BE DETERMINED BY THE FIELD ENGINEER. PAYMENT SHALL BE MADE PER SQ. FT. AT THE PRICE BID FOR THE ACTUAL AREA PATCHED AND SHALL INCLUDE ALL COST FOR LABOR. MATERIALS AND EQUIPMENT.

PRIOR TO THE SURFACE CLEANING SPECIFIED IN C&MS 519.04 AND WITHIN 24 HOURS OF PLACING PATCHING MATERIAL, BLAST CLEAN ALL SURFACES TO BE PATCHED INCLUDING THE EXPOSED STEEL REINFORCEMENT. ACCEPTABLE METHODS INCLUDE HIGH-PRESSURE WATER BLASTING WITH OR WITHOUT ABRASIVES IN THE WATER. ABRASIVE BLASTING WITH CONTAINMENT, OR VACUUM ABRASIVE BLASTING.

REMOVE THE FORMS WITHIN 24 HOURS AFTER PLACING CONCRETE AND FINISH ALL EXPOSED SURFACES BY RUBBING TO MATCH THE SURROUNDING SURFACE. APPLY MEMBRANE CURING ACCORDING TO C&MS 511.14, METHOD B, IMMEDIATELY AFTER RUBBING THE SURFACES.

AS PER PLAN THE CONCRETE REINFORCEMENT IN THE APPROACH SLABS AND SLEEPER SLABS SHALL BE GALVANIZED STEEL REINFORCEMENT PER CMS 709.16. PAYMENT FOR THE GALVANIZED STEEL REINFORCEMENT IN THE APPROACH SLABS AND SLEEPER SLABS SHALL BE INCLUDED WITH ITEM 526. THE APPROACH SLAB AND SLEEPER SLAB CONCRETE SHALL UTILIZE THE SAME MIX DESIGN AS THE BRIDGE DECK CONCRETE REQUIRED PER ITEM 511, CLASS QC2 CONCRETE, WITH QC/QA, BRIDGE DECK.

ITEM 526. REINFORCED CONCRETE APPROACH SLABS (T=15").

ALL EQUIPMENT. LABOR AND MATERIALS NEEDED TO CONSTRUCT THE APPROACH SLABS AS SHOWN IN THESE PLANS SHALL BE INCLUDED IN THE UNIT PRICE FOR ITEM 526 - REINFORCED CONCRETE APPROACH SLABS, AS PER PLAN. THIS SHALL INCLUDE, BUT NOT LIMITED TO, ALL CONCRETE AND STEEL REINFORCEMENT IN THE APPROACH SLAB AND APPROACH SLAB SIDEWALK. BRIDGE RAILING CONCRETE AND STEEL REINFORCEMENT WITHIN THE RAILING SHALL BE PAID FOR SEPARATELY. SEALING OF CONCRETE SURFACES SHALL BE INCLUDED WITH ITEM 512 FOR PAYMENT. THE ADDITIONAL APPROACH SLAB SIDEWALK STEEL REINFORCEMENT NOT COVERED IN AS-1-15 IS DETAILED AND INCLUDED IN THE STEEL REINFORCEMENT BAR LIST.

S 27 2 30 ER Ш 4 > \mathcal{O} Ó 00 ЦО \square 24 (2 O \mathbf{N} $\mathbf{\mathcal{L}}$ Ш Ш O \mathbf{O} Ž RAL AMI Ο Ż GEN G Σ HILL Ш RD C Ш Т BRANC 1305352 ESIGN AGENCY υ Ð shb Ŧ DESIGNER CHECKEF BMG TLC REVIEWER JPC 03/07/25 PROJECT ID 102753 SUBSET TOTAL S.03 44 SHEET TOTAL P.29 70



4

-275-0

Ш

TION FENCE, 6' STRAIGHT, COATED	ITEM SPECIAL, STRUCTURES, AESTHETIC LETTERING	PR
TION FENCE 12' CURVED COATED	EORMINER FOR AESTHETIC I ETTERING IS TO BE MADE OF	1
	PLASTICIZED POLYVINYL CHLORIDE. THE MATERIAL IS TO HAVE	2. F
THE FENCING SYSTEM FABRICATE	SUFFICIENT FIRMNESS TO RESIST DEFORMATION FROM FRESHLY	(
I ENGTH AGREEABLE TO THE ENGINEER	PLACED CONCRETE AND HAVE SUFFICIENT PLIABILITY TO PERMIT	ŀ
T. ALL HARDWARE. INCIDENTALS AND	REMOVAL WITHOUT DAMAGE TO THE FORMLINERS OR TO EARLY	
VILL USE THIS SAMPLE PANEL TO	AGE CONCRETE.	3
E FABRICATION. COATINGS AND QUALITY		4. H
R THE REVIEW OF THIS SAMPLE, THE	FORMLINERS ARE TO HAVE A SHORE A FIRMNESS OF	5 1
TRACTOR MAY AGREE UPON ANY	APPROXIMATELY 25.	J. 1
ALITY CONTROL OR INSTALLATION		6. (
ON TO THESE NOTES. THE FABRICATION	LETTERING FORMLINER IS TO BE INSTALLED IN THE FORMS TO	١
TER THE ACCEPTANCE OF THIS SAMPLE	PROVIDE THE DIMENSIONAL RELATIONSHIP BETWEEN LETTERS	7. I
MAY BE INCORPORATED INTO THE	AS SHOWN IN THE PLANS. FORMLINERS ARE TO BE ATTACHED	8. I
CRETION OF THE ENGINEER.	TO THE PRIMARY FORM ELEMENTS TO ENSURE THAT THE	9. (
	FORMLINERS WILL BE TRUE AND STRAIGHT IN THE VERTICAL	10. (11. (
	POSITION.	12 9
THE ODOT STANDARD 6' AND 12' CURVED		, <u> </u>
OTECTION EENCING AS DED DI AN	AFTER FORMS ARE STRIPPED, IMPERFECTIONS IN THE FINISHED	- 13. F
OTECTION FENCING, AS PER PLAN.	CONCRETE ARE TO BE PATCHED WITH THE SAME MATERIALS	(
ARE INCLUDED WITH THE PROJECT COST	AND MIX USED IN THE CONCRETE PLACEMENT TO RESTORE	14. I
	FULLY THE TEXTURED SURFACES TO THE SATISFACTION OF THE	Ι
	ENGINEER.	15. H
	DRIOD TO RECININING ANY WORK REPRESENTATIVE SHOP	, And
HE GALVANIZED STEEL REINFORCEMENT	PRIOR TO BEGINNING ANY WORK, REPRESENTATIVE SHOP	r
RMLINER FOR CUSTOM "MIAMI TOWNSHIP"	AND IOINT LOCATIONS FORM THE LOCATIONS AND END EDGE	
RAILING AND CUSTOM COLORED SEALING	AND OTHER SPECIAL CONDITIONS ARE TO BE SUBMITTED TO	AB
ETTERING. THE ADDITIONAL COST OF THE	THE FIELD ENGINEER FOR APPROVAL A MINIMUM OF FOURTEEN	
RALIERNATIVE 1 COST SHALL BE PAID	(14) DAYS PRIOR TO BEGINNING WORK.	
	THE CONTRACTOR SHALL ALSO SUBMIT SHOP DRAWINGS FOR	
: AESTHETIC TEST PANEL (ALTERNATIVE 2)	APPROVAL TO MIAMI TOWNSHIP. ALL PRODUCT INFORMATION	
E FINAL PRODUCT OF "TEXTURE A", FLAT	AND SHOP DRAWINGS SHALL BE SUBMITTED PRIOR TO	
SET, WITH APPROPRIATE SEALING	BEGINNING ANY WORK.	
E PROVIDED FOR ACCEPTANCE PRIOR		
ANELS ARE TO BE A MINIMUM OF	MIAMI TOWNSHIP CONTACT INFORMATION:	
S NEEDED TO PROVIDE A CLEAR	STEVE KELLY	С
ESTHETIC TREATMENTS. ONE TEST SLAB	5888 McPICKEN DRIVE	
HE BRIDGE RAILING SEALING COLORS,	MIAMI TOWNSHIP, OH 45150	
XTURE A". THE TEST PANEL IS TO BE	(513) 248-3700	
AME MATERIALS, EQUIPMENT, AND		CM
USED FOR THE FINAL PRODUCT.	A PRE-INSTALLATION MEETING IS TO BE SCHEDULED WITH THE	
	FIELD ENGINEER, CONTRACTOR, AND MANUFACTURER TO	
INCLUDING ALL LABOR, EQUIPMENT,	ASSURE THE UNDERSTANDING OF FORMLINER USE, AND	
LS TO BE PAID UNDER ITEM 511,	REQUIREMENTS AND COURDINATION OF THE WORK. A	
IC TEST PANEL.	EOR THE INITIAL SETUR CONCRETE BLACEMENT AND STRIPPING	
	OF THE INITIAL SETUP, CONCRETE FLACEMENT, AND STRIFFING	
CRETE SURFACES (EPOXY-URETHANE),	OF THE FORMEINERS.	
E 2)	AESTHETIC LETTERING INCLUDING ALL LABOR FOLUPMENT AND	
HE SEALING OF THE "MIAMI TOWNSHIP"	MATERIALS REQUIRED TO PRODUCE THE FINISHED PRODUCT IS	
	TO BE PAID FOR UNDER ITEM 530. SPECIAL. STRUCTURES.	
	AESTHETIC LETTERING.	
THE CONCRETE BRIDGE RAILING, AS		
L BE SEALED WITH EPOXY-URETHANE		
2. THE SURFACE TO BE SEALED SHALL		
ON PER C&MS 512.03(F). THE COLOR IS		
OR NUMBER FS-595C-17038.		
ANTITY IS BASED ON A FLAT SURFACE. ANY		
S DUE TO THE LETTER RELIEFS SHALL BE		
-OR THIS ITEM.		

ROPOSED WORK	
REMOVE TREES WITHIN 20 FEET OF THE BRIDGE. REMOVE THE EXISTING CONCRETE DECK, APPROACH SLABS, CONCRETE BRIDGE RAILING, FENCE, AND EXPANSION JOINTS. REMOVE THE ABUTMENT BACKWALLS, WINGWALLS AND BEAM SEATS TO THE LIMITS SHOWN IN THE PLANS. JACK SUPERSTRUCTURE AND REMOVE EXISTING PIER BEARINGS. REMOVE EXISTING SEALER ON EXPOSED CONCRETE SURFACES TO REMAIN. PATCH ALL AREAS WHERE UNSOUND CONCRETE IS LOCATED ON ABUTMENTS AND PIERS. CONSTRUCT THE NEW PORTIONS OF THE ABUTMENTS AND WINGWALLS. INSTALL NEW PIER ELASTOMERIC BEARING ASSEMBLIES. WELD NEW SHEAR STUDS TO EXISTING BEAMS. CONSTRUCT SEMI-INTEGRAL ABUTMENT DIAPHRAGMS. CONSTRUCT SEMI-INTEGRAL ABUTMENT DIAPHRAGMS. CONSTRUCT NEW DECK AND APPROACH SLABS. CONSTRUCT NEW BRIDGE FAILING AND SIDEWALK. SEAL CONCRETE SURFACES WITH NON-EPOXY AND EPOXY-URETHANE SEALER TO THE LIMITS SHOWN IN THE PLANS. PREPARE SURFACES AND PAINT EXISTING BEAMS AND CROSSFRAMES. INSTALL NEW VANDAL PROTECTION FENCE TO THE LIMITS SHOWN IN THE PLANS. REMOVE AND REPLACE APPROACH GUARDRAIL, END TERMINAL ASSEMBLIES AND BRIDGE TERMINAL ASSEMBLIES. SEE ROADWAY PLANS FOR MORE DETAILS. BEREVIATIONS ABUT ABUTMENT APPR APPROACH ADT - AVERAGE DAILY TRAFFIC ADT - AVERAGE DAILY TRAFFIC ADT - AVERAGE DAILY TRAFFIC MD - BENCHMARK BOT BOITOM BRG BEARING BTWN BETWEIN CONSTRUCTION JOINT & CENTERLINE UR CONSTRUCTION MATERIAL SPECIFICATIONS DWG DIAMETER # O DRAWING E.F EACH FACE EL ELEVATION EQ EQUAL EX EXISTING F.F FAR FACE I.T LEFT MSC - MICRO-SILICA MODIFIED CONCRETE MGS - MICRO-SILICA MODIFIED CONCRETE MGS - MICRO-SILICA MODIFIED CONCRETE MGS - MIDWEST GUARDRAIL SYSTEM MINI MINIMUM MIN MINIMUM	GENERAL NOTES (3 OF 3) BRIDGE NO. CLE-00275-00.430 BRANCH HILL MIAMIVILLE ROAD OVER I.R. 275
NPCPP - NON-PERFORATED CORRUGATED PLASTIC PIPE 0/0 - OUT TO OUT	SFN
PCPP - PERFORATED CORRUGATED PLASTIC PIPE PEJF - PREFORMED EXPANSION JOINT FILLER PROP PROPOSED	1305352 DESIGN AGENCY
R.A REAR ABUTMENT RT RIGHT SHLDR SHOULDER	shbe
SPA SPACES STA STATION	Ë
TYP TYPICAL	DESIGNER CHECKER
<i>T/T - TOE TO TOE U.N.O UNLESS NOTED OTHERWISE</i>	REVIEWER JPC 03/07/25
	102753 SUBSET TOTAL

P.30 70

CHE	CKED BY: BMG	DATE:	1/26/2024	
ITEM	EXTENSION	01/IMS/13	UNIT	
202	11203	LUMP		PORTIONS OF STRUCTURE REMOVED. OVER 20 FOOT SPAN.
202	22901	343	SY	APPROACH SLAB REMOVED, AS PER PLAN
503	21301	LUMP		UNCLASSIFIED EXCAVATION, AS PER PLAN
509	26000	97,742	LB	GALVANIZED STEEL REINFORCEMENT
510	10001	554	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS
511	33501	2	EACH	SEMI-INTEGRAL DIAPHRAGM GUIDE, AS PER PLAN
511	34417	9	CY	CLASS QC SCC CONCRETE, SUPERSTRUCTURE, AS PER PLA
511	34446	339	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK
511	34461	92	CY	CLASS QC SCC CONCRETE, BRIDGE DECK (PARAPET), AS PE
511	43210	27	CY	CLASS QC1 CONCRETE, PIER
511	45710	42	CY	CLASS QC1 CONCRETE, ABUTMENT
511	53014	37	CY	CLASS QC3 CONCRETE, MISC.: LIGHTWEIGHT, SIDEWALK
512	10050	210	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)
512	10100	1,184	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
512	10600	3	FT	CONCRETE REPAIR BY EPOXY INJECTION
512	74000	242	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFAC
513	20000	2.445	EACH	WELDED STUD SHEAR CONNECTORS
513	95030	30	EACH	STRUCTURAL STEEL, MISC.: DRILLED HOLES
514	00050	14,204	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL
514	00056	14.204	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL. PRIME C
514	00060	14,204	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT
514	00066	14,204	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT
514	00504	23	MNHR	GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL
514	10000	7	EACH	FINAL INSPECTION REPAIR
516	10010	67	FT	ARMORLESS PREFORMED JOINT SEAL
516	13600	24	SF	1" PREFORMED EXPANSION JOINT FILLER
516	13900	148	SF	2" PREFORMED EXPANSION JOINT FILLER
516	14020	183	FT	SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL
516	44101	15	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LO
516	47001	LUMP		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE
518	21200	30	СҮ	POROUS BACKFILL WITH GEOTEXTILE FABRIC
518	40000	82	FT	6" PERFORATED CORRUGATED PLASTIC PIPE
518	40012	51	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE
519	11101	54	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN
526	25001	196	SY	REINFORCED CONCRETE APPROACH SLABS (T=15") AS PER
526	90030	68	FT	TYPE C INSTALLATION
607	39901	275	FT	VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC,
607	39931	281	FT	VANDAL PROTECTION FENCE, 12' CURVED, COATED FABRIC,
625	25500	765	FT	CONDUIT, 3", 725.04
625	29002	200	FT	TRENCH, 24" DEEP
625	29940	6	EACH	BARRIER JUNCTION BOX
625	30700	4	EACH	PULL BOX, 725.08, 18"
625	33000	1	EACH	STRUCTURE GROUNDING SYSTEM
625	36010	200	FT	UNDERGROUND WARNING/MARKING TAPE
020				

EL: Sheet PAPERSIZE: 34x22 (in.) DATE: 3/13/2025 TIME: 3:47:45 PM USER: bgarrison 022\220827\CAD\0D0T\102753\400-Engineering\Structures\SFN_1305352\Sheets\102753_SFN_1305352_SQ001.d

CLE-275-0.43

ESTIMATED QUANTITIES		
DESCRIPTION	ABUT.	PII
PAN, AS PER PLAN		
	5,225	2,6
T. AS PER PLAN	356	19
PLAN	2	
S PER DI AN		
		2
<	42	
	103	20
	3	20
RFACES	19	22
DAT		
IRAL STEEL		
	183	
D LOAD PLATE (NEOPRENE), AS PER PLAN (15"x14.5"x2.648" BEARING WITH 16"x15.5"x2" LOAD PLATE)		
URE, AS PER PLAN		
	30	
	51	
	20	3
		0
PER PLAN		
RIC, AS PER PLAN RIC, AS PER PLAN		
NATERIALS		

R	SUPER.	GEN.	REFERENCE SHEET NO
		LUMP	S.02/44
		343	S.02/44
			0.00///
		LUMP	S.02/44
21	89,896		
	-		
3			S.03/44
			S 17/AA
		9	S.03/44
	339	-	
	92		S.03/44
			S.18/44
	37		S 03/44
	01		0.00/77
	210		
1	790		S.03/44
)			
)			
	2,445		
	30		S.21/44
	14,204		S.03/44
	14,204		<u> </u>
	14,204		S.03/44
	23		
	7		
		67	
	24		
	148		
	· -		
	15		S.20/44
		LUMP	J.U3/44
			S 03/44
			0.00/11
		196	S.03/44
		68	
	275		S 01/11
	281		S.04/44
		765	
		200	
		0 <u>1</u>	
		1	
		200	
		LUMP	



СНІ	MADE BY: CAS ECKED BY: BMG	DATE: DATE:	1/3/2024 1/26/2024	ESTIMATED QUANTITIES			STRUCTURAL FILE NUMBER: 1305352		
ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	PIER	SUPER.	GEN.	REFERENCE SHEET NO.	
				ALTERNATIVE 1					
509	26000	16,455	LB	GALVANIZED STEEL REINFORCEMENT (ALTERNATIVE 1)			16,455		
509	30020	4,719	FT	NO. 4 DEFORMED GFRP REINFORCEMENT (ALTERNATIVE 1)			4,719		
511	71200	2,119	SF	CONCRETE, MISC.: FORMLINER (GENERIC) (ALTERNATIVE 1)			2,119		S.03/44
		E		ALTERNATIVE 2					
509	26000	17,328	LB	GALVANIZED STEEL REINFORCEMENT (ALTERNATIVE 2)			17,328		
509	30020	4,806	FT	NO. 4 DEFORMED GFRP REINFORCEMENT (ALTERNATIVE 2)			4,806		
511	71200	1,204	SF	CONCRETE, MISC.: FORMLINER (LETTERING ENHANCED) (ALTERNATIVE 2)			1,204		S.03/44
511	81300	1	EACH	CONCRETE, MISC.: AESTHETIC TEST PANEL (LETTERING ENHANCED) (ALTERNATIVE 2)			1		S.04/44
512	10101	4	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN (BLACK) (LETTERING ENHANCED) (ALTERNATIVE 2)			4		S.04/44
SPECIAL	53000200	LUMP		STRUCTURES: AESTHETIC LETTERING (LETTERING ENHANCED) (ALTERNATIVE 2)			LUMP		S.04/44







- 1. FOR ADDITIONAL DETAILS AND NOTES, SEE ODOT STD
- 2. FOR APPROACH SLAB DETAILS, SEE SHEETS S.32/44
- 3. FOR BRIDGE TERMINAL ASSEMBLY, SEE ROADWAY PLA
- 4. LEFT SIDE BRIDGE RAILING CONCRETE ON THE APPRO ITEM 511 - CLASS QC SCC CONCRETE SUPERSTRUCTU
- 5. FOR CONDUIT DETAILS AT EACH ABUTMENT END OF TH

	BRIDGE RAILING DETAILS (2 OF 4) BRIDGE NO. CLE-00275-00.430 BRANCH HILL MIAMIVILLE ROAD OVER I.R. 275	
9. DWG. BR-2-15. AND <u>S.33/44</u> . AND S.33/44. ANS AND ODOT DACH SLABS SHALL BE INCLUDED WITH JRE, AS PER PLAN FOR PAYMENT. BRIDGE J9 - GALVANIZED STEEL REINFORCEMENT. HE BRIDGE, REFER TO STD. DWG. HL-30.31.	SFN 1305352 DESIGN AGENCY SOOGSS DESIGNER TLC DESIGNER TLC CHECKER BMG REVIEWER JPC 02/22/24 PROJECT ID 102753 SUBSET TOTAL S.29 44 SHEET TOTAL P.55 70	

RAILING REINFORCING TO BE INCLUDED WITH ITEM 50



BRIDGE DECK REINFORCING AND VANDAL PROTECTION FENCE NOT SHOW FOR CLARITY



BARS TO BE CUT AT DEFLECTION JOINT. PROVIDE A 2" GAP IN THE BARS BEING CUT

CONTINUOUS BARS

CLE-275-0.43

 \geq

18:01

m. TIME:

DATE: 3/I3/2025 Fnaineerina/S+

(in.)

(22 75



APPROACH SLAB REINFORCING NOT SHOWN FOR CLARITY



DEFLECTION JOINT DETAIL



LEGEND:



2" WIDE PREFORMED JOINT MATERIAL 3" WIDE PREFORMED JOINT MATERIAL 5" WIDE PREFORMED JOINT MATERIAL

NOTES:

- 1. FOR ADDITIONAL BRIDGE RAILIN
- 2. FOR LOCATION OF SECTIONS N-3. DEFLECTION JOINTS ARE TO BE STRIPS. THE EXCESS MATERIAL MATERIAL USED NEEDS TO NOT SIGNIFICANTLY MOVE DURING IS TO BE 0.5" IN THICKNESS AND OR SIMILAR PRODUCT APPROV 4 FOR CONDUIT DETAILS AT EACH
- 5. THE FACE OF BRIDGE RAILING S LOCATION AS SHOWN. BASE PL HEIGHT OF BRIDGE RAILING AT

	_
	BRIDGE RAILING DETAILS (4 OF 4) BRIDGE NO. CLE-00275-00.430 BRANCH HILL MIAMIVILLE ROAD OVER I.R. 275
NG DETAILS NOT SHOWN, SEE ODOT STD. DWG. SBR-1-20. -N THROUGH R-R AND ADDITIONAL NOTES, SEE SHEET [5.30/44]. E CAST INTO THE BRIDGE RAILING AND HELD IN WITH CHAMFER - WILL BE TRIMMED TO THE BASE OF THE CHAMFER. THE T ABSORB WATER AND HAVE SUFFICIENT RIGIDITY TO NOT THE CASTING OF THE BRIDGE RAILING. THE JOINT MATERIAL D WILL BE NOMAFLEX BY NOMACO OR FIBER LITE BY W.R. MEADOWS ED BY THE ENGINEER. - ABUTMENT END OE THE BRIDGE, REFER TO STD. DWG. HL-30.31. SHALL BE SMOOTH WITHOUT FORMLINER AT EACH BASE PLATE ATE AREA IS 11" TALL x 15" WIDE. FORMLINER SHALL EXTEND FULL ALL OTHER LOCATIONS.	SFN 1305352 DESIGN AGENCY YOOGUSSE DESIGNER TLC DESIGNER TLC CHECKER BMG REVIEWER JPC 02/22/24 PROJECT ID 102753 SUBSET TOTAL S.31 44 SHEET TOTAL P.57 70









SECTION T-T APPROACH SLAB REINFORCING NOT SHOWN FOR CLARITY

APPROACH SLAB SIDEWALK PLAN

(REAR ABUTMENT SHOWN, FORWARD ABUTMENT OPPOSITE HAND)

 $\tilde{\gamma}$







FACES	■ APPROACH SLAB DETAILS (2 OF 2) BRIDGE NO. CLE-00275-00.430 BRANCH HILL MIAMIVILLE ROAD OVER I.R. 275
	оги 1305352
S507	
	lbe
	List
RCING ITY	DESIGNER CHECKER
	CAS BMG REVIEWER
	JPC 02/22/24 PROJECT ID
TES:	102753 SUBSET TOTAL
OR APPROACH SLAB PLAN AND NOTES, SEE SHEET [S.32/ 44].	S.33 44 SHEET TOTAL
	P.59 70

	NUMBER		TOTAL	Lu				DIMENSION	S			
MARK	ΤΟΤΑΙ	LENGTH LENGTH	H LENGTH		ENGTH LENGTH		LENGTH LENGTH					
					A	B	C	D	E			
	BRIDGE R	AILING - ALI	TERNATIVE 1	I (GLA	SS FIBER	REINFORC	ED POLYM	ER REINFO	RCEMENT	-		
R401	99	30'-0"	2970'-0"	STR								
R402	11	21'-11"	241'-1"	STR								
R403	104	10'-0"	1040'-0"	STR								
R404	8	11'-4"	90'-8"	STR								
R405	24	10'-0"	240'-0"	STR								
R406	12	5'-1"	61'-0"	STR								
R407	12	6'-4"	76'-0"	25	2'-6"	2'-5"	1'-4"	0'-1 ¹ / ₂ "	0'-5"			
		TOTAL	4718'-9"									

	NUMBER		DIMENSION	DIMENSIONS						
MARK	LENGTH	TOTAL LENGTH	LYPE							
	TOTAL				A	B	С	D	E	
	BRIDGE	RAILING - AL	TERNATIVE	2 (GLA	SS FIBER	REINFORCE	D POLYME		CEMENT -	Gl
R401	99	30'-0"	2970'-0"	STR						
R402	11	21'-11"	241'-1"	STR						
R404	8	11'-4"	90'-8"	STR						
R405	24	10'-0"	240'-0"	STR						
R406	12	5'-1"	61'-0"	STR						
R407	12	6'-4"	76'-0"	25	2'-6"	2'-5"	1'-4"	0'-1 ½"	0'-5"	
R408	208	5'-5"	1126'-8"	STR						
		TOTAL	4805'-5"							

	NUMBER			111			L	DIMENSION	S	
MARK	τοται	LENGTH	WEIGHT	ТУРЕ						Т
	TOTAL				Α	В	C	D	Ε	
	B	RIDGE RAILIN	NG - ALTERN	ATIVE	1 ONLY (GA	ALVANIZED S	STEEL REII	NFORCEME	NT - GSR)	1
R501	342	11'-10"	4,221	30	1'-6"	0'-8"	4'-5"	4'-3"		
R502	60	30'-0"	1,877	STR						
R503	6	13'-0"	81	STR						
R504	20	10'-11"	228	STR						
R505	200	6'-2"	1,286	STR						
R506	100	12'-8"	1,321	STR						
R507	14	13'-7"	198	19	12'-2"	1'-4"	0'-5"			
R508	14	13'-8"	200	STR						
R509	10	5'-3"	55	1	1'-6"	3'-10"				
R510	10	5'-1"	53	1	1'-6"	3'-8"				
R511	4	11'-7"	48	STR						
R512	4	6'-1"	25	99	3'-5"	2'-11"				_
D 004	0.40	71.04	0.050			01.01				+
R601	310	7'-0"	3,259	23	0'-6"	3'-3"	3'-3"	41.01	~ 7"	+
R602	310	/-2"	3,337	37	0'-9"	0'-9 '2"	1'-5"	1'-0"	0'-7"	╞
D 000	2	4'-5"	(00		(1.0#	3'-/"				+
R603	<u>S.O.</u>	10	160	1	1'-0"	10				+
	11	5'-3"				4'-5"				+
R604	16	4'-5"	106	1	1'-0"	3'-7"				+
	 BRIDGE RAIL	INGS TOTAL	16,455 LBS							+
										T

TIME: 3:48:03 PM USER: bgarrison uctures/SFN_1305352/Sheets/10275 DATE: 3/13/2025 -Engineering\Str (in.) 3\400 IZE: 34×22 DOT\I02753

CLE-275-0.43



MADK	NUMBER		WEIGHT	PE				DIMENSIONS	;					
WARA	TOTAL	LENGIH	WEIGHT	L	Α	В	С	D	E	R	INC			
	B	RIDGE RAIL II	NG - AITERN				STEEL REI							
R501	374	11'-10"	4.616	30	1'-6"	0'-8"	4'-5"	4'-3"						
R502	60	30'-0"	1,877	STR										
R503	6	13'-0"	81	STR										
R521	20	10'-11"	228	STR										
R522	520	4'-8"	2,531	STR										
														F 2 :75
R507	14	1.3'-7"	198	19	12'-2"	1'-4"	0'-5"							.5 0
R508	14	13'-8"	200	STR										.R
R509	10	5'-3"	55	1	1'-6"	3'-10"								
R510	10	5'-1"	53	1	1'-6"	3'-8"								-IS 13(
R511	4	11'-7"	48	STR										1 % Γ 2.0
R512	4	6'-1"	25	99	3'-5"	2'-11"								5-0 D (0
R601	336	7'-0"	3.533	23	0'-6"	3'-3"	3'-3"			0'-2"				Г Е 275 ОА
R602	336	7'-2"	3,617	37	0'-9"	0'-9 ½"	1'-5"	1'-0"	0'-7"	<u> </u>				
	2	4'-5"				3'-7"								
R603	S.O.	TO	160	1	1'-0"	TO					0'-1"			
R604	16	5-3 4'-5"	106	1	1'-0"	4-5 3'-7"								S . <
														AN TO AN
	BRIDGE RAIL	INGS TOTAL	17,328 LBS											NШΣ
		<u> </u>	l											L DO
	A A		о				B	A			A			CRETE BR NCH H
A	<u> </u>					A		<u>TYPE</u>	-16	<u>7</u>	<u> YPE-17</u>	<u>TYPE-18</u>		:ONC
TYPE	<u>-1</u>	<u></u>	<u>E-2</u>		<u> </u>	► PE-3					B	1		0 –
				&_/					4					
		ן עד 1			Ā			_ u						
	O							D	U C				ENT	
				B									DM	
	▼					A	B	C						
				, ,	<u> </u>					Α				
		A	-	↓		<u></u>	<u> PE-25</u>		-		► A		۲	
							A	- 1			▶			
	<u></u>	<u> </u>	<u>TYP</u>	<u>E-24</u>						<u></u>	<u>YPE-30</u>	<u>TYPE-37</u>		1305352
	1	A	B				<i>── I.R. = 4</i> ³ ⁄ ₈	,11						
						В								e
														qų
						<u> </u>		~						fis
	<u> </u>	<u> </u>					<u>IYPE-99</u>	<u>1</u>						
						<u></u>	ENDING	G DIAGR	<u>AMS</u>					BMG TLC
									NOT	ES:				JPC 03/07/25
									1. Bl	RIDGE RAI	LING STEE	L REINFORCEMENT VARIES BL	ETWEEN	PROJECT ID 102753
									Al 2 T	TERNATIN	/ES 1 AND 2 ARS MAY P	AS SHOWN ON THIS SHEET.	STEEI	SUBSET TOTAL
									2. 11 Ri	EINFORCE	EMENT IF G	RP FABRICATED SHAPE IS NO	OT AVAILABLE.	S.35 44
									3. F0	JR ADDITI	UNAL NOTE	S, SEE SHEET <u> </u> S.34 / 44 .		P.61 70





















3 4 9 Ω. N N Ш \cup



SECTION Y-Y APPROACH SLAB REINFORCING NOT SHOWN FOR CLARITY





NOTES:

- OR SIMILAR PRODUCT APPROVED BY THE ENGINEER.

BRIDGE RAILING DETAILS (3 OF 3) - ALTERNATIVE 2	BRIDGE NO. CLE-00275-00.430	BRANCH HILL MIAMIVILLE ROAD OVER I.R. 275
SFN 13 DESIGN /		52 Y
DESIGNE BMV	ER C	HECKER BMG
	EVIEWE 03/	er 07/25
	0275	55
S.38		44
P.64		70

2" WIDE PREFORMED JOINT MATERIAL 3" WIDE PREFORMED JOINT MATERIAL 5" WIDE PREFORMED JOINT MATERIAL

1. FOR ADDITIONAL BRIDGE RAILING DETAILS NOT SHOWN, SEE ODOT STD. DWG. SBR-1-20. 2. FOR LOCATION OF SECTIONS W-W THROUGH Z-Z AND ADDITIONAL NOTES, SEE SHEET S.36/44 3. DEFLECTION JOINTS ARE TO BE CAST INTO THE BRIDGE RAILING AND HELD IN WITH CHAMFER STRIPS. THE EXCESS MATERIAL WILL BE TRIMMED TO THE BASE OF THE CHAMFER. THE MATERIAL USED NEEDS TO NOT ABSORB WATER AND HAVE SUFFICIENT RIGIDITY TO NOT SIGNIFICANTLY MOVE DURING THE CASTING OF THE BRIDGE RAILING. THE JOINT MATERIAL IS TO BE 0.5" IN THICKNESS AND WILL BE NOMAFLEX BY NOMACO OR FIBER LITE BY W.R. MEADOWS

4 FOR CONDUIT DETAILS AT EACH ABUTMENT END OF THE BRIDGE, REFER TO STD. DWG. HL-30.31.









3 4

9

Ω.

Ш

U

)DEL: Sheet PAPERSIZE: 34×22 (in.) DATE: 3/13/2025 TIME: 3:48:07 PM USER: bgarrison \2022\220827\CAD\0D01\102753\400-Engineering\Structures\SEN_1305352\Sheets\102753_SEN_1305352_SA0(



JDEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 3/13/2025 TIME: 3:48:07 PM USER: bgarrison



 \geq

)DEL: Sheet PAPERSIZE: 34×22 (in.) DATE: 3/13/2025 TIME: 3:48:07 PM USER: bgarrison \2022\220827\6AD\0D0T\102753\400-Engineering\Structures\SFN_1305352\Sheets\102753_SFN_1



 \geq

JDEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 3/13/2025 TIME: 3:48:08 PM USER: bgarrison A2022/220827/CADA0D0TA102753/400-Engineering/Structures/SFN-1305352/Sheets/102753_SFN-13C

