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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

LIST OF ROADWAY
STANDARDS

EFF. 01-16-2024
REV.

2024 ROADWAY STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Contracts Standards and Development Unit - N. C. Department of Transportation - Raleigh, N. C., Dated January 16, 2024 are applicable to this project and by reference here by are considered a part of these plans:

STD. NO.	TITLE
DIVISION 8 - INCIDENTALS	
862.01	Guardrail Placement (Use Details in Lieu of Standards for Sheets 4, 6, 12, and 14 of 15)
862.02	Guardrail Installation (Use Details in Lieu of Standards for Sheets 5 of 9)
876.03	Drainage Ditches with Class 'A' Rip Rap
876.04	Drainage Ditches with Class 'B' Rip Rap

CONTRACT: DN01116

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
GEOTECHNICAL ENGINEERING UNIT

HELENE
EMERGENCY REPAIRS

COUNTY TRANSYLVANIA
PROJECT DESCRIPTION 1 SITE ON NC 215

ROUTE	SITE #	SITE LATITUDE	SITE LONGITUDE	REPAIR OPTION 1	REPAIR OPTION 2	REPAIR OPTION 3
NC 215	707	35.15729254	-82.83155174	Shotcrete Slope Stabilization		

WHEN MULTIPLE REPAIR OPTIONS ARE AVAILABLE AT A SITE LOCATION, THE CONTRACTOR SHALL PROCEED IN SEQUENTIAL ORDER AND CHOOSE THE FIRST OPTION THAT FITS WITHIN SITE CONSTRAINTS

PRIOR TO CONSTRUCTING THE GEOTECHNICAL REPAIRS, AN ON-SITE MEETING WITH THE PRIME CONTRACTOR, THE GEOTECHNICAL SPECIALTY SUBCONTRACTOR (IF APPLICABLE), THE DIVISION CONSTRUCTION REPRESENTATIVE AND THE GEOTECHNICAL OPERATIONS GROUP REPRESENTATIVE SHALL BE CONDUCTED



Signed by:
J. Dean Hardister
06970DAF0000403...

04/15/2025

SIGNATUREDATE

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



- 1) FOR SHOTCRETE SLOPE STABILIZATION, SEE PROVISION.
- 2) SOIL NAIL AVERAGE LENGTH = 40 FEET.
- 3) SOIL NAIL SHALL BE #8 GRADE 75 EPOXY COATED STEEL BAR OR 40/16 HOLLOW BAR.
- 4) DESIGN FACING FOR MAXIMUM T_o OF 39 KIPS.
- 5) FOR TESTING, REQUIRED PROOF TEST LOAD = BONDED LENGTH (FT) x 2.4 KIPS/FT x 0.75.
- 6) IF GUARDRAIL IS CLOSER THAN SHOWN, CONTACT THE ENGINEER.



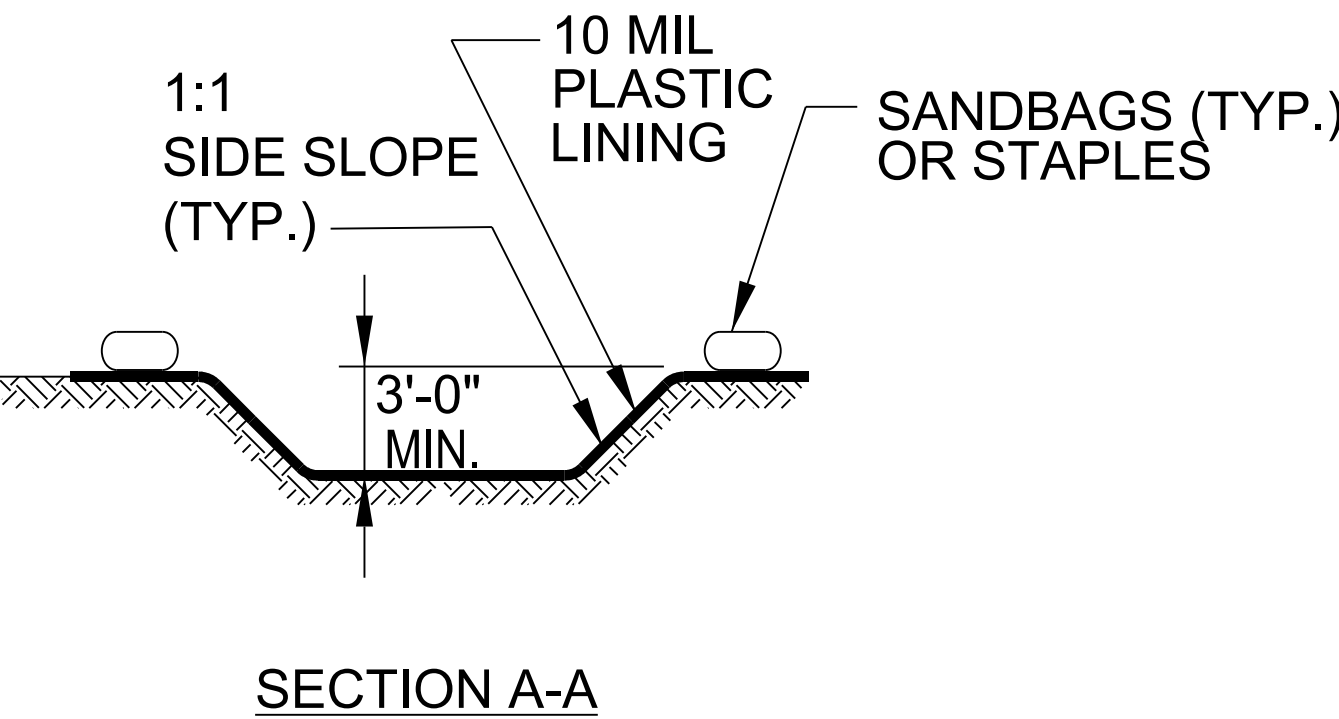
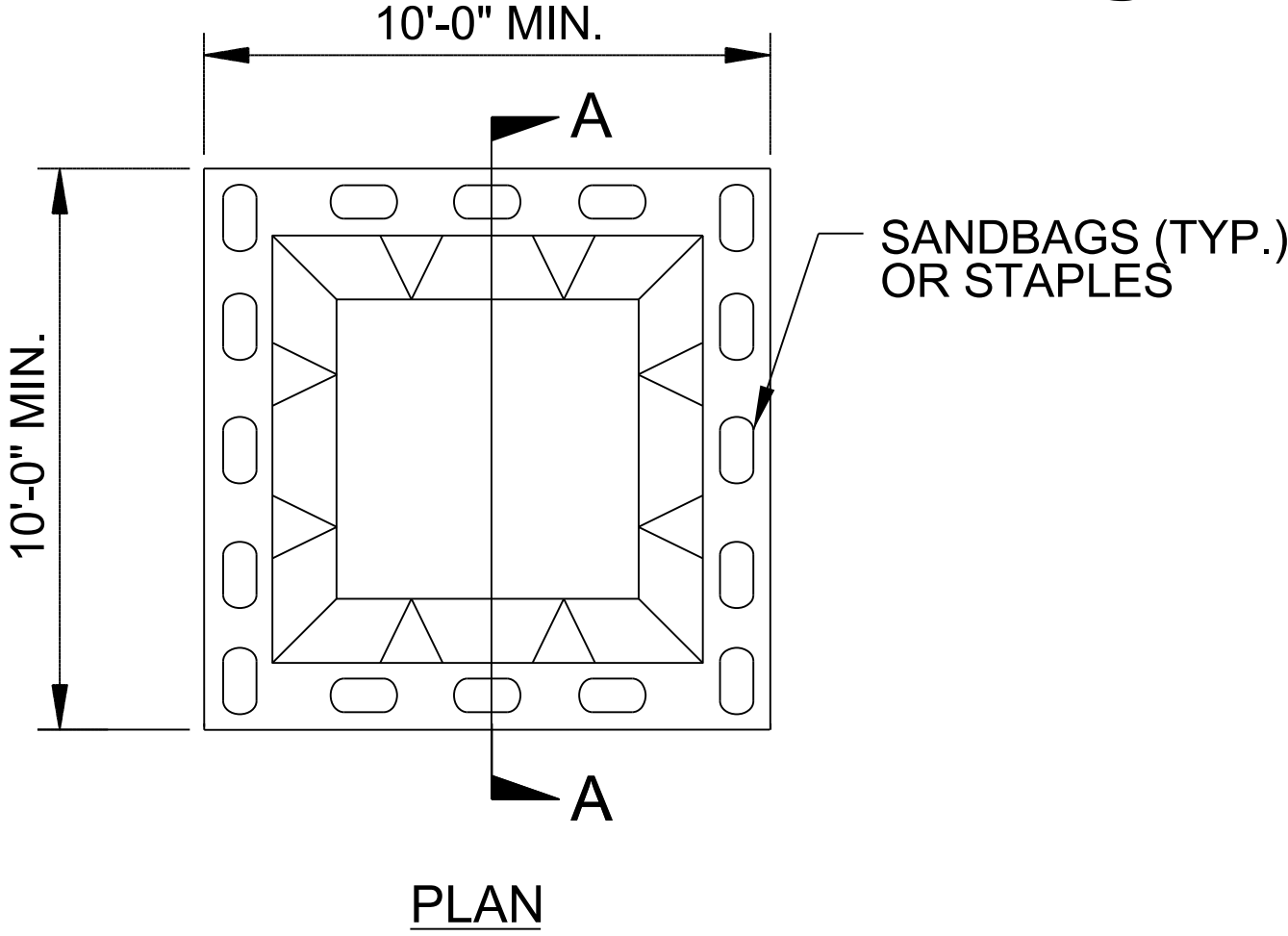
HURRICANE HELENE EMERGENCY REPAIRS

SHOTCRETE SLOPE STABILIZATION

SHEET
NO.
1 OF 1

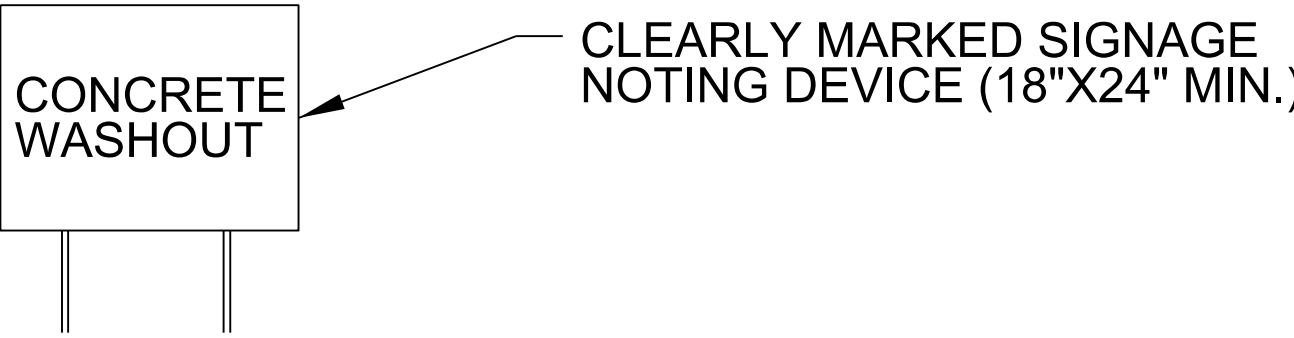
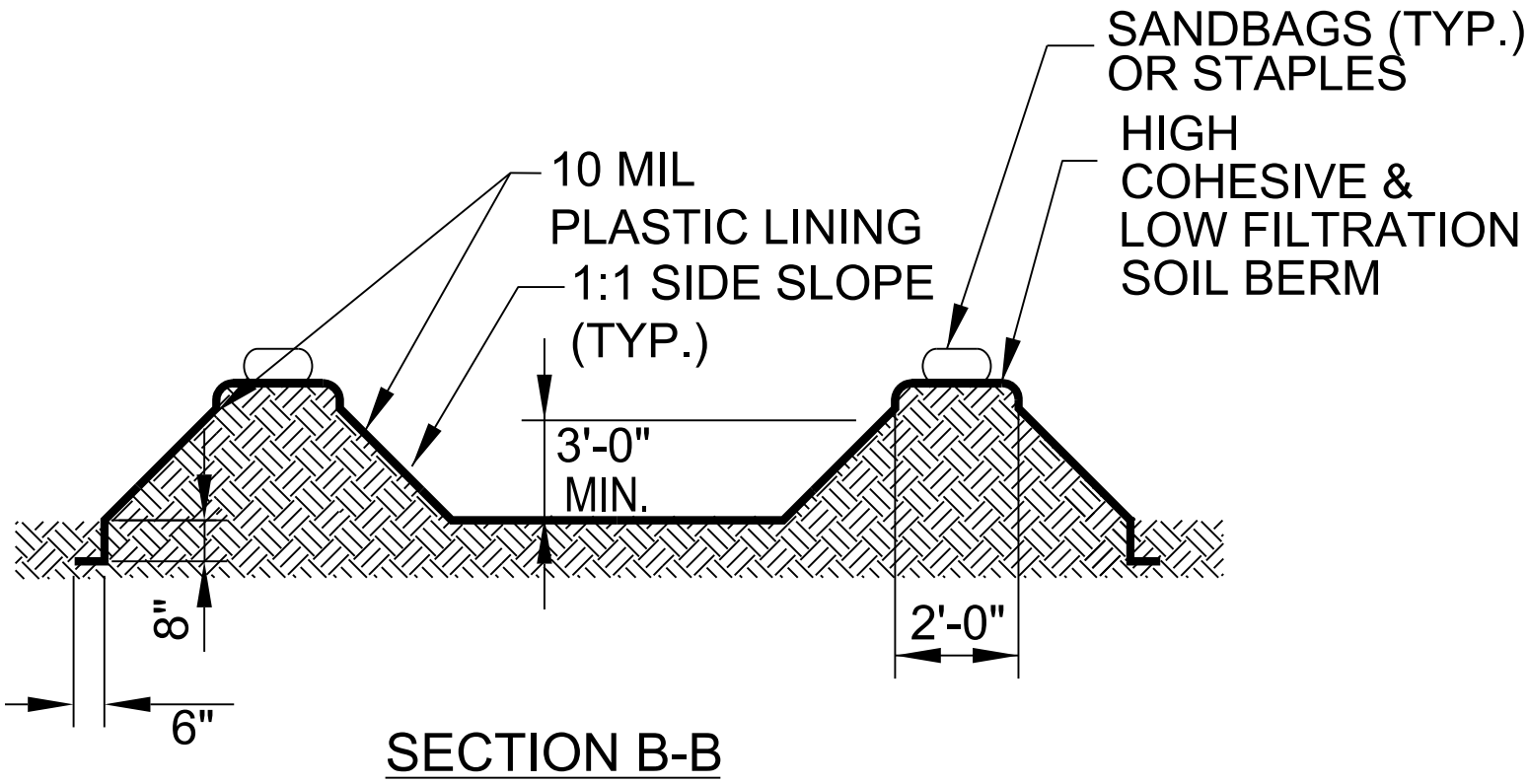
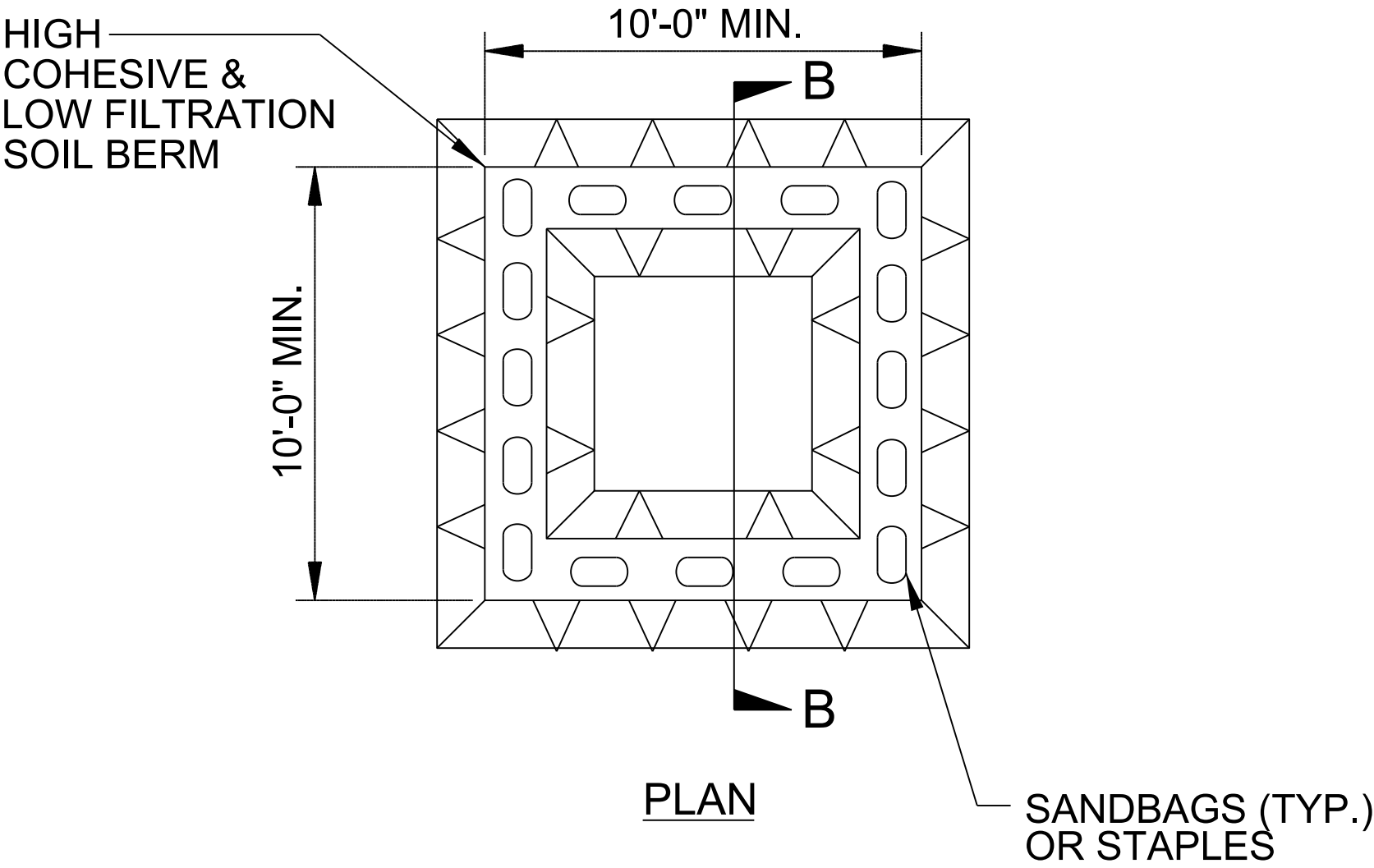
ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER

PROJECT REFERENCE NO.		SHEET NO.
X-XXXX		EC-XX
RW SHEET NO.		
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER



BELOW GRADE WASHOUT STRUCTURE
NOT TO SCALE

- NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
 2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
 3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.



ABOVE GRADE WASHOUT STRUCTURE
NOT TO SCALE

- NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
 2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
 3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

Sheet No: 6

SUMMARY OF QUANTITIES

[illegible]

SUMMARY OF QUANTITIES

								6000000000-E	6006000000-E	6009000000-E	6012000000-E	6029000000-E	6036000000-E	6042000000-E	6071010000-E	6084000000-E	6096000000-E	6108000000-E	6117000000-N	6117500000-N
PROJECT NO	COUNTY	MAP NO	ROUTE	LENGTH	WIDTH	BEGIN MP	END MP	TEMPORARY SILT FENCE	STONE FOR EROSION CONTROL, CLASS A	STONE FOR EROSION CONTROL, CLASS B	SEDIMENT CONTROL STONE	SAFETY FENCE	MATTING FOR EROSION CONTROL	1/4" HARDWARE CLOTH	WATTLE	SEED & MULCHING	SEED FOR SUPPLEMENTAL SEEDING	FERTILIZER TOPDRESSING	RESPONSE FOR EROSION CONTROL	CONCRETE WASHOUT STRUCTURE
				MI	FT			LF	TON	TON	TON	LF	SY	LF	LF	AC	LB	TON	EA	EA
18314.1088015	Transylvania	2	US-64	0.05	22	6.58	6.63	150	20	20	20		100	20	50	0.1	50.0	0.1	1	1
TOTAL FOR MAP NO. 2				0.05				150	20	20	20		100	20	50	0.1	50.0	0.1	1	1
TOTAL FOR PROJ NO. 18314.1088015				0.05				150	20	20	20		100	20	50	0.1	50.0	0.1	1	1
18314.1088038	Transylvania	3	NC-215	0.06	20	1.32	1.38	100				100							1	1
TOTAL FOR MAP NO. 3				0.06				100				100							1	1
TOTAL FOR PROJ NO. 18314.1088038				0.06				100				100							1	1
GRAND TOTAL				0.11				250	20	20	20	100	100	20	50	0.1		0.1	2	2

THERMOPLASTIC AND PAINT QUANTITIES

									4457000000-N	4424500000-N	4688000000-E	4688000000-E
PROJECT NO	COUNTY	MAP NO	ROUTE	LANES	LENGTH	WIDTH	BEGIN MP	END MP	TEMPORARY TRAFFIC CONTROL	TEMPORARY PORTABLE TRAFFIC SIGNAL SYSTEM	6" X 90 M WHITE THERMO	6" X 90 M YELLOW THERMO
					MI	FT						
18314.1088015	Transylvania	2	US-64	2	0.05	22	6.58	6.63	0.50	0.50	250	250
TOTAL FOR MAP NO. 2					0.05				0.50	0.50	250	250
TOTAL FOR PROJ NO. 18314.1088015					0.05				0.50	0.50	250	250
18314.1088038	Transylvania	3	NC-215	2	0.06	20	1.32	1.38	0.50	0.50		
TOTAL FOR MAP NO. 3					0.06				0.50	0.50		
TOTAL FOR PROJ NO. 18314.1088038					0.06				0.50	0.50		
GRAND TOTAL					0.11				1	1	250	250