

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

NORTHAMPTON COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5758	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
44682.3.1		MAP 1	
44682.3.1		MAP 2	
44682.3.1		MAP 3	
44682.3.1		MAP 4	
44682.3.1		MAP 5	

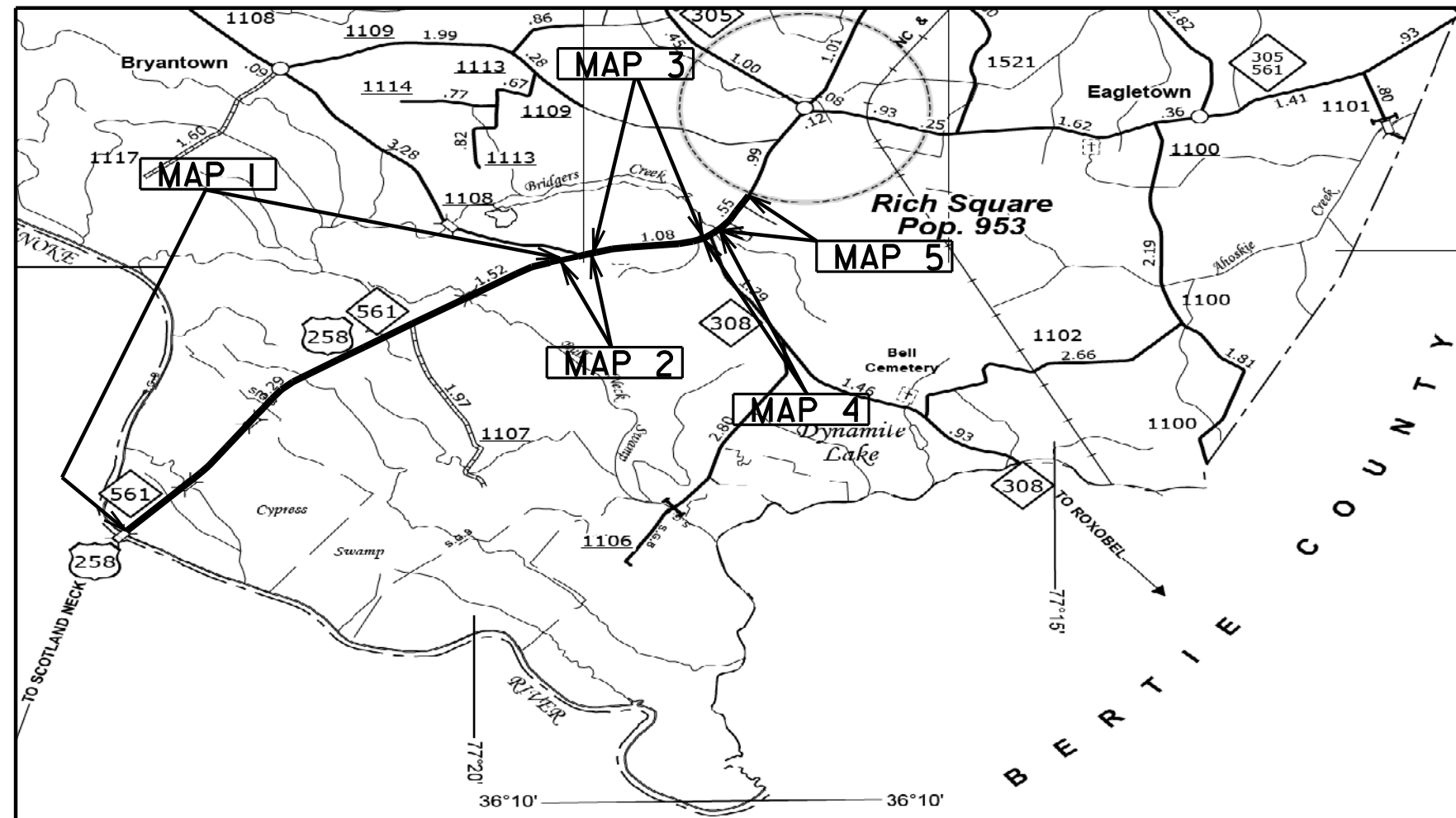
TIP PROJECT: R-5758

CONTRACT: DA00347



LOCATION: MAP 1 US 258 FROM HALIFAX COUNTY LINE (10+00.00) TO APPROX. STA. 255+46
 MAP 2 US 258 FROM APPROX. STA. 255+46 TO APPROX. STA. 266+23
 MAP 3 US 258 FROM APPROX. STA. 266+23 TO BEGINNING OF CURB AND GUTTER
 MAP 4 US 258 FROM BEGINNING OF CURB AND GUTTER TO END OF CURB AND GUTTER
 MAP 5 US 258 FROM END OF CURB AND GUTTER TO RICH SQUARE CITY LIMITS

TYPE OF WORK: MILLING, RESURFACING, WIDENING, GUARDRAIL REPLACEMENT, PIPE REPLACEMENT AND LONG-LIFE PAVEMENT MARKINGS



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PROJECT LENGTH

- LENGTH OF ROADWAY PROJECT MAP 1 = 4.65 MI.
- LENGTH OF ROADWAY PROJECT MAP 2 = 0.20 MI.
- LENGTH OF ROADWAY PROJECT MAP 3 = 1.00 MI.
- LENGTH OF ROADWAY PROJECT MAP 4 = 0.09 MI.
- LENGTH OF ROADWAY PROJECT MAP 5 = 0.50 MI.

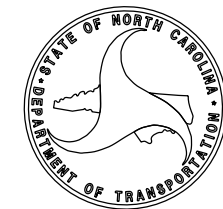
Prepared in the Office of:
DIVISION OF HIGHWAYS
113 Airport Dr., Edenton NC, 27932

2012 STANDARD SPECIFICATIONS

LETTING DATE:

W.B. HOBBS, P.E.
DIVISION PROJECT MANAGER

C.E. SLACHTA
DIVISION PROPOSALS ENGINEER



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SHEET NUMBER	INDEX OF SHEETS SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
2 THRU 2C	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
2D	PIPE AND GUARDRAIL SUMMARIES
3	SUMMARY OF QUANTITIES
4 THRU 5	PLAN SHEETS
6	SHOULDER WEDGE DETAIL
7	TRAFFIC MANAGEMENT PLANS
EC-1 THRU EC-4	EROSION CONTROL DETAILS

2012 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated January, 2012 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO.	TITLE
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation
DIVISION 6 - ASPHALT BASES AND PAVEMENTS	
654.01	Pavement Repairs
DIVISION 7 - CONCRETE PAVEMENTS AND SHOULDERS	
700.05	Tying Proposed Pavement to Existing
DIVISION 8 - INCIDENTALS	
852.01	Concrete Islands
862.01	Guardrail Placement
862.02	Guardrail Installation
862.03	Structure Anchor Units

GENERAL NOTES:

2012 SPECIFICATIONS
EFFECTIVE: 01-17-12
REVISED: 11/01/11

SHOULDER CONSTRUCTION:

ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01.

SIDE ROADS:

THE CONTRACTOR WILL BE REQUIRED TO DO ALL NECESSARY WORK TO PROVIDE SUITABLE CONNECTIONS WITH ALL ROADS, STREETS, AND DRIVES ENTERING THIS PROJECT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PARTICULAR ITEMS INVOLVED.

GUARDRAIL:

THE GUARDRAIL LOCATIONS SHOWN ON THE PLANS MAY BE ADJUSTED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHOULD CONSULT WITH THE ENGINEER PRIOR TO ORDERING GUARDRAIL MATERIAL.

UTILITIES:

UTILITY OWNERS ON THIS PROJECT ARE:

Century Link - Telephone and Fiber Optic

Mediacom - Cable Television

Electric - Roanoke Electric Cooperative

Water and Sewer - Northampton County

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	○ EP
Computed Property Corner	-----
Property Monument	□ ECM
Parcel/Sequence Number	②③
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	-----
Proposed Wetland Boundary	-----
Existing Endangered Animal Boundary	-----
Existing Endangered Plant Boundary	-----
Existing Historic Property Boundary	-----
Known Contamination Area: Soil	☠-s-☠
Potential Contamination Area: Soil	☠-s-☠
Known Contamination Area: Water	☠-w-☠
Potential Contamination Area: Water	☠-w-☠
Contaminated Site: Known or Potential	☠☠

BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	○
Sign	○
Well	○
Small Mine	✕
Foundation	□
Area Outline	□
Cemetery	↑
Building	□
School	□
Church	□
Dam	-----

HYDROLOGY:

Stream or Body of Water	-----
Hydro, Pool or Reservoir	-----
Jurisdictional Stream	----- JS
Buffer Zone 1	----- BZ 1
Buffer Zone 2	----- BZ 2
Flow Arrow	←
Disappearing Stream	-----
Spring	○
Wetland	-----
Proposed Lateral, Tail, Head Ditch	-----
False Sump	-----

RAILROADS:

Standard Gauge	-----
RR Signal Milepost	○
Switch	□
RR Abandoned	-----
RR Dismantled	-----

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

RIGHT OF WAY & PROJECT CONTROL:

Secondary Horiz and Vert Control Point	◆
Primary Horiz Control Point	○
Primary Horiz and Vert Control Point	◆
Exist Permanent Easement Pin and Cap	◇
New Permanent Easement Pin and Cap	◆
Vertical Benchmark	⊠
Existing Right of Way Marker	△
Existing Right of Way Line	-----
New Right of Way Line	-----
New Right of Way Line with Pin and Cap	-----
New Right of Way Line with Concrete or Granite RW Marker	-----
New Control of Access Line with Concrete CA Marker	-----
Existing Control of Access	-----
New Control of Access	-----
Existing Easement Line	-----
New Temporary Construction Easement	-----
New Temporary Drainage Easement	-----
New Permanent Drainage Easement	-----
New Permanent Drainage / Utility Easement	-----
New Permanent Utility Easement	-----
New Temporary Utility Easement	-----
New Aerial Utility Easement	-----

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	-----
Proposed Slope Stakes Fill	-----
Proposed Curb Ramp	-----
Existing Metal Guardrail	-----
Proposed Guardrail	-----
Existing Cable Guiderail	-----
Proposed Cable Guiderail	-----
Equality Symbol	⊕
Pavement Removal	-----

VEGETATION:

Single Tree	☼
Single Shrub	☼

Hedge	-----
Woods Line	-----
Orchard	-----
Vineyard	-----

EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	-----
Bridge Wing Wall, Head Wall and End Wall	-----
MINOR:	
Head and End Wall	-----
Pipe Culvert	-----
Footbridge	-----
Drainage Box: Catch Basin, DI or JB	□ CB
Paved Ditch Gutter	-----
Storm Sewer Manhole	⊙
Storm Sewer	-----

UTILITIES:

POWER:	
Existing Power Pole	●
Proposed Power Pole	○
Existing Joint Use Pole	●
Proposed Joint Use Pole	○
Power Manhole	⊙
Power Line Tower	⊠
Power Transformer	⊠
U/G Power Cable Hand Hole	-----
H-Frame Pole	-----
U/G Power Line LOS B (S.U.E.*)	-----
U/G Power Line LOS C (S.U.E.*)	-----
U/G Power Line LOS D (S.U.E.*)	-----

TELEPHONE:

Existing Telephone Pole	●
Proposed Telephone Pole	○
Telephone Manhole	⊙
Telephone Pedestal	⊠
Telephone Cell Tower	⊠
U/G Telephone Cable Hand Hole	-----
U/G Telephone Cable LOS B (S.U.E.*)	-----
U/G Telephone Cable LOS C (S.U.E.*)	-----
U/G Telephone Cable LOS D (S.U.E.*)	-----
U/G Telephone Conduit LOS B (S.U.E.*)	-----
U/G Telephone Conduit LOS C (S.U.E.*)	-----
U/G Telephone Conduit LOS D (S.U.E.*)	-----
U/G Fiber Optics Cable LOS B (S.U.E.*)	-----
U/G Fiber Optics Cable LOS C (S.U.E.*)	-----
U/G Fiber Optics Cable LOS D (S.U.E.*)	-----

WATER:

Water Manhole	⊙
Water Meter	○
Water Valve	⊗
Water Hydrant	⊙
U/G Water Line LOS B (S.U.E.*)	-----
U/G Water Line LOS C (S.U.E.*)	-----
U/G Water Line LOS D (S.U.E.*)	-----
Above Ground Water Line	-----

TV:

TV Pedestal	⊠
TV Tower	⊗
U/G TV Cable Hand Hole	-----
U/G TV Cable LOS B (S.U.E.*)	-----
U/G TV Cable LOS C (S.U.E.*)	-----
U/G TV Cable LOS D (S.U.E.*)	-----
U/G Fiber Optic Cable LOS B (S.U.E.*)	-----
U/G Fiber Optic Cable LOS C (S.U.E.*)	-----
U/G Fiber Optic Cable LOS D (S.U.E.*)	-----

GAS:

Gas Valve	◇
Gas Meter	⊙
U/G Gas Line LOS B (S.U.E.*)	-----
U/G Gas Line LOS C (S.U.E.*)	-----
U/G Gas Line LOS D (S.U.E.*)	-----
Above Ground Gas Line	-----
SANITARY SEWER:	
Sanitary Sewer Manhole	⊙
Sanitary Sewer Cleanout	⊙
U/G Sanitary Sewer Line	-----
Above Ground Sanitary Sewer	-----
SS Forced Main Line LOS B (S.U.E.*)	-----
SS Forced Main Line LOS C (S.U.E.*)	-----
SS Forced Main Line LOS D (S.U.E.*)	-----

MISCELLANEOUS:

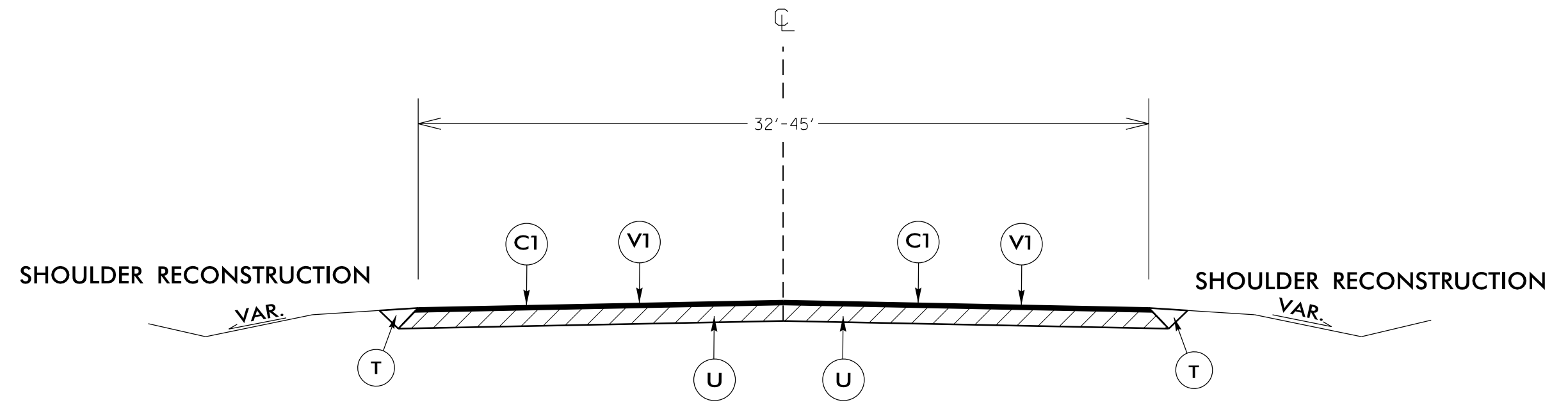
Utility Pole	●
Utility Pole with Base	⊠
Utility Located Object	○
Utility Traffic Signal Box	⊠
Utility Unknown U/G Line LOS B (S.U.E.*)	-----
U/G Tank; Water, Gas, Oil	-----
Underground Storage Tank, Approx. Loc.	⊠
A/G Tank; Water, Gas, Oil	-----
Geoenvironmental Boring	⊙
U/G Test Hole LOS A (S.U.E.*)	-----
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
U	EXISTING PAVEMENT.
V1	MILLING BITUMINOUS PAVEMENT. 1.5" DEPTH.
T	EARTH MATERIAL.

NOTES:

- *ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII., OR AS DIRECTED BY THE ENGINEER.
- *EDGES, PAVEMENT WIDENING, INTERSECTIONS, AND BRIDGE FLARES ARE INCLUDED IN THE SUMMARY OF QUANTITIES.
- *AT STATIONS 223+00 LT. - 235+50 LT. CONTRACTOR SHALL GRADE BACK-SLOPE TO PROVIDE A UNIFORM AND ADEQUATE SURFACE FOR GRASS SEED GROWTH AND SLOPE STABILITY. SLOPES ARE TO BE MATTED, SEEDED, AND MULCHED TO ENSURE STABILITY OF SLOPE.
- *NO SHOULDER RECONSTRUCTION NEEDED FOR MAP # 5
- *SHOULDER RECONSTRUCTION ON MAP #1 AND MAP #3 IS FOR AREAS WITH EXISTING LOW SHOULDERS OR AS DIRECTED BY ENGINEER.



TYPICAL SECTION NO. 1
 USE WITH MAP 1, 3, & 5

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PAVEMENT SCHEDULE

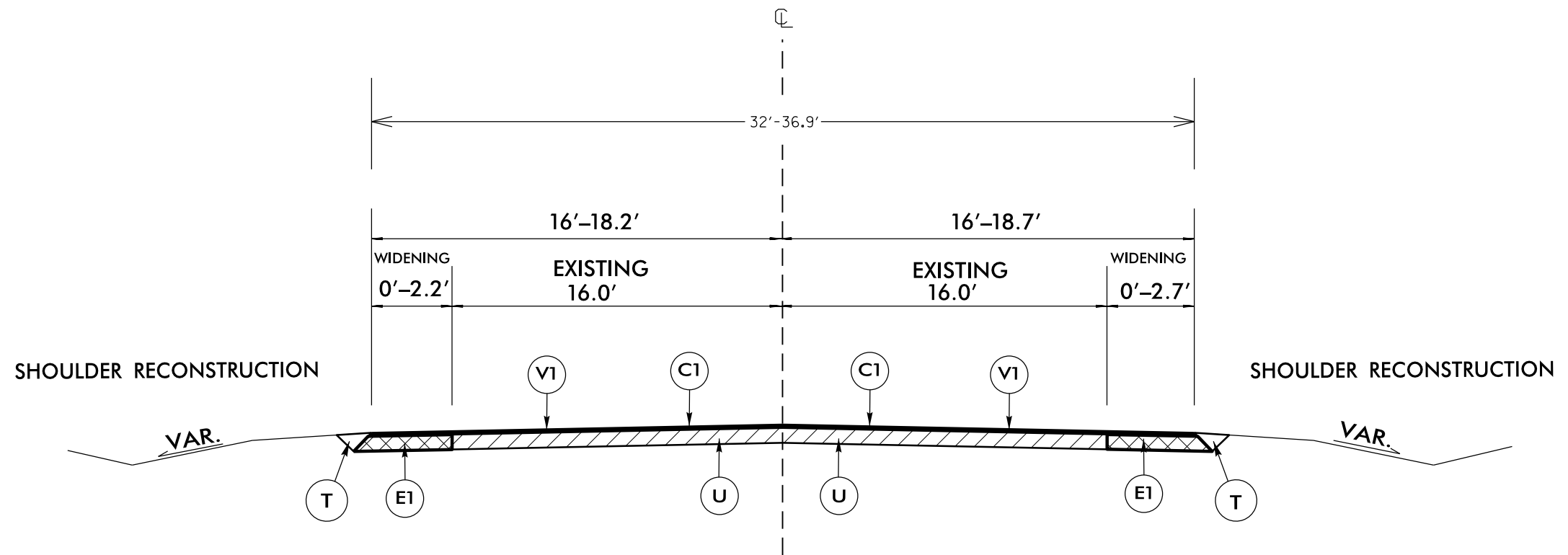
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
E1	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
V1	MILLING BITUMINOUS PAVEMENT. 1.5" IN DEPTH.
U	EXISTING PAVEMENT.
T	EARTH MATERIAL.

NOTES:

*ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII., OR AS DIRECTED BY THE ENGINEER.

*EDGES, PAVEMENT WIDENING, INTERSECTIONS, AND BRIDGE FLARES ARE INCLUDED IN THE SUMMARY OF QUANTITIES.

*SEE PLAN SHEETS 4 AND 5 FOR LOCATION OF WIDENING.



TYPICAL SECTION NO. 2

USE WITH MAP 2

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P A V E M E N T S C H E D U L E

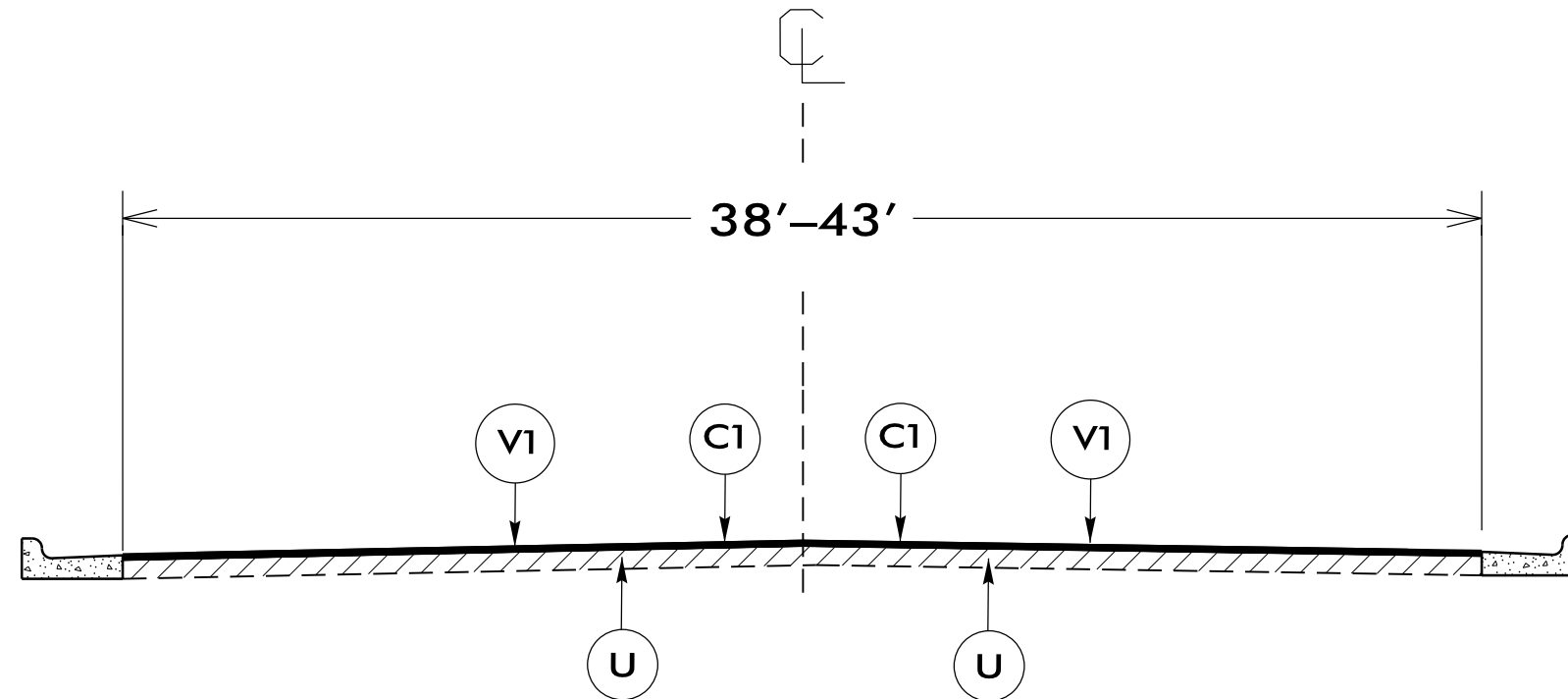
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
V1	MILLING BITUMINOUS PAVEMENT. 1.5" IN DEPTH.
U	EXISTING PAVEMENT.

NOTES:

*ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII., OR AS DIRECTED BY THE ENGINEER.

*EDGES, PAVEMENT WIDENING, INTERSECTIONS, AND BRIDGE FLARES ARE INCLUDED IN THE SUMMARY OF QUANTITIES.

*CONTRACTOR SHALL MILL 1.5" BELOW EXISTING EDGE OF CONC. CURB & GUTTER.



TYPICAL SECTION NO. 3

USE WITH MAP 4

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PAVEMENT SCHEDULE

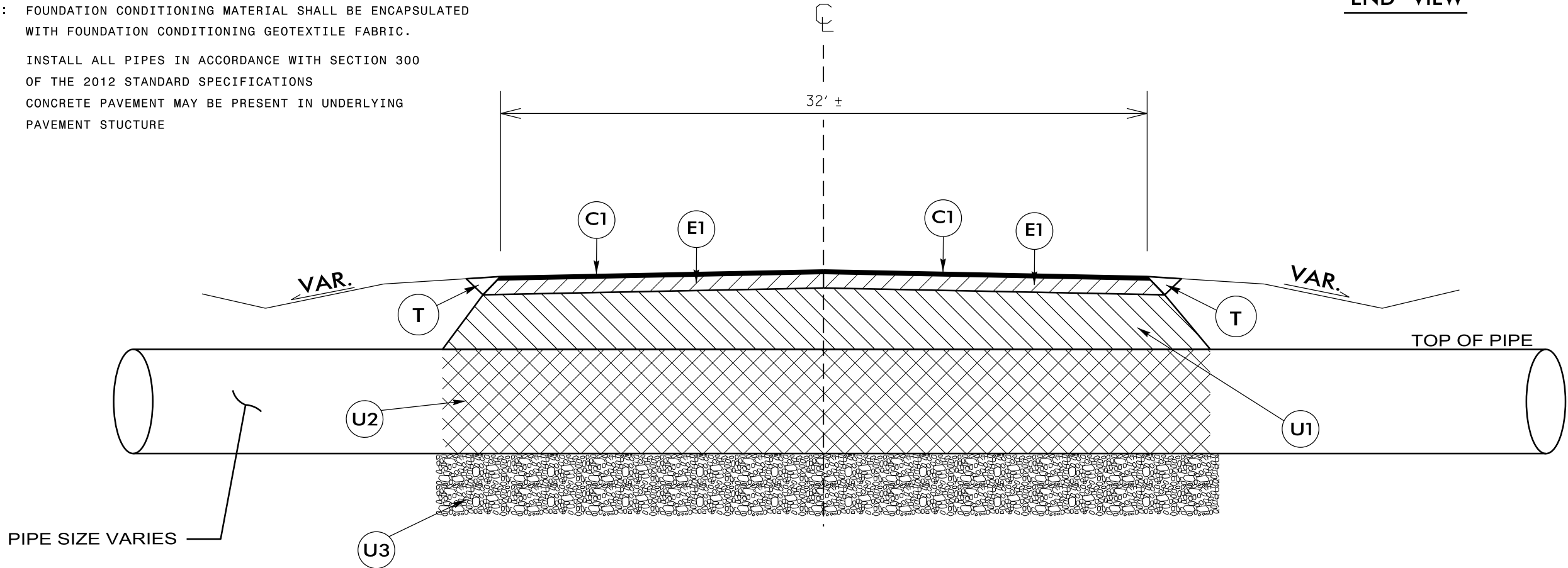
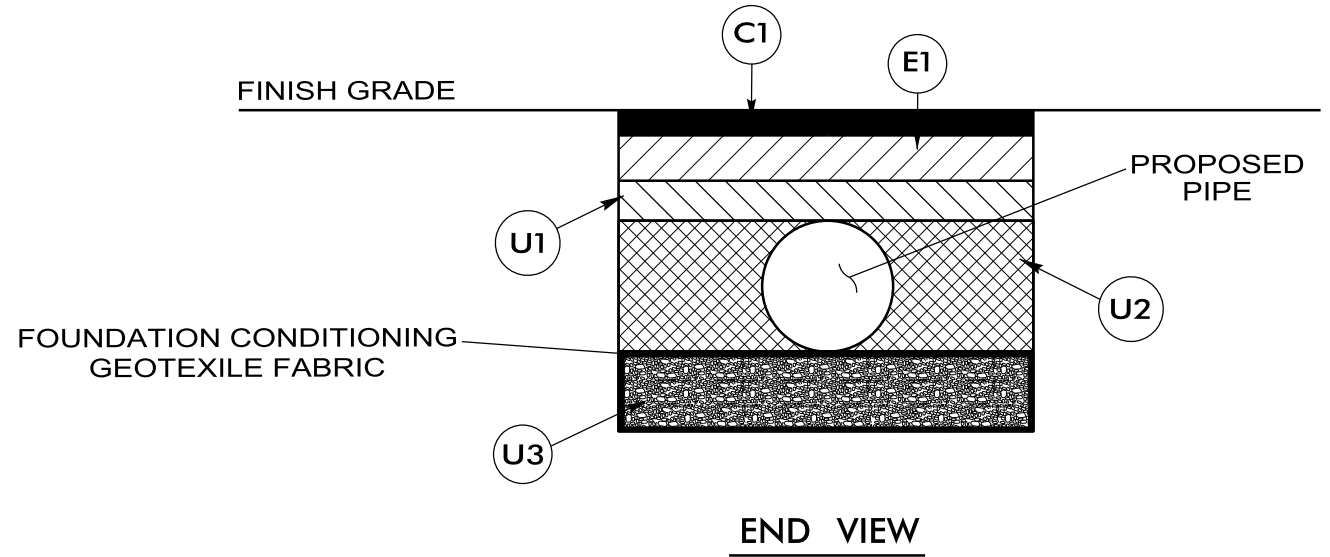
PROJECT REFERENCE NO.	SHEET NO.
R-5758	2C

C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
E1	PROP. APPROX. 5½" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
U1	SUBGRADE MATERIAL (ABC STONE)
U2	FILL MATERIAL (SELECT GRANULAR MATERIAL)
U3	FOUNDATION CONDITIONING MATERIAL
T	EARTH MATERIAL.

NOTES: FOUNDATION CONDITIONING MATERIAL SHALL BE ENCAPSULATED WITH FOUNDATION CONDITIONING GEOTEXTILE FABRIC.

INSTALL ALL PIPES IN ACCORDANCE WITH SECTION 300 OF THE 2012 STANDARD SPECIFICATIONS

CONCRETE PAVEMENT MAY BE PRESENT IN UNDERLYING PAVEMENT STRUCTURE



TYPICAL SECTION NO. 4
USE AT PIPE TRENCHES ONLY

NTS

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

NOTE: Invert Elevations are for Bid Purposes only and shall not be used for project construction stakeout.
See "Standard Specifications For Roads and Structures, Section 300-5".

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & UNDER)

STATION	LOCATION (L.T. OR C.U.)		STRUCTURE NO.	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION SLOPE CRITICAL	DRAINAGE PIPE (RCP, CSP, CAAP, HDPE, or PVC)								C.S. PIPE								R.C. PIPE (CLASS III)								R.C. PIPE (CLASS IV)								ENDWALLS STD. 838.01, STD. 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE)	QUANTITIES FOR FRAME STRUCTURES * TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. "A" + [(1/3 X COL. "B")]	FRAME, GRATES AND HOOD STANDARD 840.03	CONCRETE TRANSITIONAL SECTION		G.D.I. FRAME WITH GRATE STD. 840.22	G.D.I. FRAME WITH TWO GRATES STD. 840.24	G.D.I. (N.S.) FRAME WITH GRATE STD. 840.24	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24	J.B. STD. 840.31 OR 840.32	CORR. STEEL ELBOWS NO. & SIZE	CONC. COLLARS CL. "B" C.Y. STD. 840.72	CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71	PIPE REMOVAL LIN.FT.	REMARKS
	FROM	TO					DO NOT USE RCP	DO NOT USE CSP	DO NOT USE PVC	DO NOT USE HDPE	12"	15"	18"	24"	30"	36"	42"	48"	12"	15"	18"	24"	30"	36"	42"	48"	12"	15"	18"	24"	30"	36"	42"	48"	R.C.P.	C.S.P.	CATCH BASIN	DROP INLET				E	F										
236+95									54'																															REPLACE EXISTING 18" X 54' RCP													
245+75																																							REPLACE EXISTING 30" X 58' RCP														
248+85																																						REPLACE EXISTING 3.5' X 3' X 78' RCBC															
271+50									54'																													REPLACE EXISTING 24" X 54' RCP															
276+70									54'																													REPLACE EXISTING 24" X 54' RCP															
TOTALS:									54'	108'	58'		78'																																								

"N" = DISTANCE FROM EDGE OF LANE TO FACE OF GUARDRAIL.
TOTAL SHOULDER WIDTH = DISTANCE FROM EDGE OF TRAVEL LANE TO SHOULDER BREAK POINT.
FLARE LENGTH = DISTANCE FROM LAST SECTION OF PARALLEL GUARDRAIL TO END OF GUARDRAIL.
W = TOTAL WIDTH OF FLARE FROM BEGINNING OF TAPER TO END OF GUARDRAIL.
G = GATING IMPACT ATTENUATOR TYPE 350
NG = NON-GATING IMPACT ATTENUATOR TYPE 350

GUARDRAIL SUMMARY

SURVEY LINE	BEG. STA.	END STA.	LOCATION	LENGTH			WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHOULDER WIDTH	FLARE LENGTH		W		ANCHORS									IMPACT ATTENUATOR TYPE 350			STEEL BEAM GUARDRAIL	REMOVE EXISTING GUARDRAIL	REMOVE AND RESET EXISTING GUARDRAIL	REMARKS											
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	XI MOD	TYPE III	GREU TL-3	B-83	XIII	CAT-1	VI MOD	BIC	AT-1	NO.	PERMITTED	NG.															
-L-	3+75	5+85	RT	210										1.00'								1	1											160	210		REMOVE EX. GUARDRAIL, INSTALL NEW GR, GREU TL-3 & B-83				
-L-	3+75	5+85	LT	210										1.00'								1	1										160	210		REMOVE EX. GUARDRAIL, INSTALL NEW GR, GREU TL-3 & B-83					
-L-	10+00	45+92	RT	3,592																				2										3,542	3,592		REMOVE EX. GUARDRAIL, INSTALL NEW GR & 2 B-83				
-L-	10+00	43+44	LT	3,344							50.00'		1.00'										1	1										3,284	3,334		REMOVE EX. GUARDRAIL, INSTALL NEW GR, GREU TL-3 & B-83				
-L-	43+88	45+92	LT	204								50.00'	1.00'	1.00'									1	1										154	204		REMOVE EX. GUARDRAIL, INSTALL NEW GR, GREU TL-3 & B-83				
-L-	47+43	49+46	LT	203							50.00'		1.00'										1	1										153	203		REMOVE EX. GUARDRAIL, INSTALL NEW GR, GREU TL-3 & B-83				
-L-	47+43	49+46	RT	203								50.00'	1.00'	1.00'									1	1										153	203		REMOVE EX. GUARDRAIL, INSTALL NEW GR, GREU TL-3 & B-83				
-L-	49+95	63+73	RT	1,378								50.00'	50.00'	1.00'	1.00'								2												1,328	1,378		REMOVE EX. GUARDRAIL, INSTALL NEW GR & 2 GREU TL-3			
-L-	54+44	61+82	LT	738								50.00'	50.00'	1.00'	1.00'								2												688	738		REMOVE EX. GUARDRAIL, INSTALL NEW GR & 2 GREU TL-3			
-L-	87+50	90+34	RT	284								50.00'	1.00'	1.00'									1	1											234	284		REMOVE EX. GUARDRAIL, INSTALL NEW GR, GREU TL-3 & B-83			
-L-	87+68	90+34	LT	266									50.00'	1.00'	1.00'								1	1											216	266		REMOVE EX. GUARDRAIL, INSTALL NEW GR, GREU TL-3 & B-83			
-L-	93+15	95+79	RT	264									50.00'	1.00'	1.00'								1	1											214	264		REMOVE EX. GUARDRAIL, INSTALL NEW GR, GREU TL-3 & B-83			
-L-	93+15	95+79	LT	264								50.00'	1.00'	1.00'									1	1											214	264		REMOVE EX. GUARDRAIL, INSTALL NEW GR, GREU TL-3 & B-83			
-L-	122+40	128+36	RT	596									50.00'	50.00'	1.00'	1.00'							2													546	596		REMOVE EX. GUARDRAIL, INSTALL NEW GR & 2 GREU TL-3		
-L-	122+40	131+09	LT	869									50.00'	50.00'	1.00'	1.00'							2													819	869		REMOVE EX. GUARDRAIL, INSTALL NEW GR & 2 GREU TL-3		
-L-	128+77	131+12	RT	235									50.00'	50.00'	1.00'	1.00'							2													185	235		REMOVE EX. GUARDRAIL, INSTALL NEW GR & 2 GREU TL-3		
-L-	165+55	173+36	RT	781									50.00'	50.00'	1.00'	1.00'							2													731	781		REMOVE EX. GUARDRAIL, INSTALL NEW GR & 2 GREU TL-3		
-L-	165+64	173+22	LT	758									50.00'	50.00'	1.00'	1.00'							2													708	758		REMOVE EX. GUARDRAIL, INSTALL NEW GR & 2 GREU TL-3		
TOTALS:																																						13,489	14,389		

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SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	MATERIAL TRANSFER VEHICLE REQUIRED	LENGTH MI	WIDTH FT	MOBILIZATION LS	BORROW CY	SELECT GRANULAR MATERIAL CY	GENERIC GRADING ITEM (GRADE BACK SLOPES) AC	FND CONDIT MATL, MINOR STRS TON	FND CONDIT GEOTEXTILE SY	24" DRAINAGE PIPE LF	30" DRAINAGE PIPE LF	36" DRAINAGE PIPE LF	48" DRAINAGE PIPE LF	AGGREGATE BASE COURSE TONS	INCIDENTAL STONE BASE TONS	SHOULDER RECONSTRUCTION SMI	1 1/2" MILLING SY	BASE COURSE, B25.0B TONS	SURFACE COURSE, S9.5C TONS	ASPHALT BINDER FOR PLANT MIX TONS
44682.3.1	Northampton	1	US 258	FROM HALIFAX COUNTY LINE TO SR 1108	1	2	2WU	NO	NO	YES	4.65	32	1	303	80	0.26	100	500	54		58	78	90	175	2.70	90,000		8,325	491
44682.3.1	Northampton	2	US 258	AT SR 1108 (CHAPEL HILL CHURCH RD)	2	2	2WU	NO	NO	YES	0.20	35	*	30										25	0.40	4,800	60	450	29
44682.3.1	Northampton	3	US 258	FROM SR 1108 TO BEGINNING OF CURB AND GUTTER	1	2	2WU	NO	NO	YES	1.00	32	*	40	70		100	500		108			60	100	0.50	19,000		1,800	106
44682.3.1	Northampton	4	US 258	CURB AND GUTTER SECTION	3	2	2WU	NO	NO	YES	0.09	40	*	10										0.10	4,500		425	25	
44682.3.1	Northampton	5	US 258	FROM END OF CURB AND GUTTER SECTION TO RICH SQUARE CITY LIMITS	1	2	2WU	NO	NO	YES	0.50	32	*											50		10,500		1,000	59
GRAND TOTAL											6.45		1	383	150	0.26	200	1,000	54	108	58	78	150	350	3.70	128,800	60	12,000	710

SUMMARY OF QUANTITIES

PROJECT NO.	COUNTY	MAP NO.	ROUTE	DESCRIPTION	TYP NO.	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	MATERIAL TRANSFER VEHICLE REQUIRED	LENGTH MI	WIDTH FT	ASPHALT PLANT MIX (REPAIR) TONS	PATCHING EXISTING PAVEMENT TONS	5" MONO CONC ISLAND (KEY IN) SY	ADJ. OF MANHOLES EA	STL BM GUARDRAIL LF	GREU TL-3 EA	GR ANCHOR TYPE B-83 EA	REMOVE EXISTING GUARDRAIL LF	RIP RAP, CLASS B TON	TEMPORARY SILT FENCE LF	SEDIMENT CONTROL STONE TON	SAFETY FENCE LF	MATting FOR EROSION CONTROL SY	1/4" HARDWARE CLOTH LF	COIR FIBER WATTLE LF	SEED & MULCHING AC	RESPONSE FOR EROSION CONTROL EA	GENERIC EROSION CONTROL ITEM (COMPOST SEEDING) ACR
44682.3.1	Northampton	1	US 258	FROM HALIFAX COUNTY LINE TO SR 1108	1	2	2WU	NO	NO	YES	4.65	32	90	100			13,489	24	12	14,389	60	1,500	140	250	1,275	300	150	5.64	10	0.26
44682.3.1	Northampton	2	US 258	AT SR 1108 (CHAPEL HILL CHURCH RD)	2	2	2WU	NO	NO	YES	0.20	35			70								250	10		20	30	0.25	2	
44682.3.1	Northampton	3	US 258	FROM SR 1108 TO BEGINNING OF CURB AND GUTTER	1	2	2WU	NO	NO	YES	1.00	32	60	50							40	200	60			100	60	1.22	8	
44682.3.1	Northampton	4	US 258	CURB AND GUTTER SECTION	3	2	2WU	NO	NO	YES	0.09	40		50		4												0.07		
44682.3.1	Northampton	5	US 258	FROM END OF CURB AND GUTTER SECTION TO RICH SQUARE CITY LIMITS	1	2	2WU	NO	NO	YES	0.50	32		25								100	25			100	40	0.61	5	
GRAND TOTAL											6.45		150	225	70	4	13,489	24	12	14,389	100	2,050	235	250	1,275	520	280	7.79	25	0.26

THERMOPLASTIC AND PAINT QUANTITIES

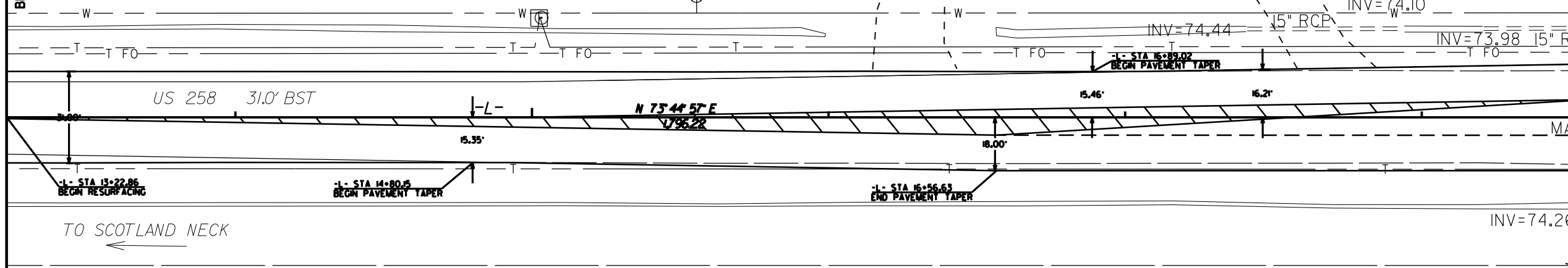
PROJECT NO.	COUNTY	MAP NO.	ROUTE	DESCRIPTION	TYP NO.	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	MATERIAL TRANSFER VEHICLE REQUIRED	LENGTH MI	WIDTH FT	WORK ZONE ADV/GEN WARN SIGN SF	TEMP TRAFFIC CONTROL LS	4" X 90 M WHITE THERMO LF	4" X 120 M YELLOW THERMO LF	4" X 120 M WHITE THERMO LF	8" X 120 M YELLOW THERMO LF	24" X 120 M WHITE THERMO LF	THERMO LT ARROW-90 M EA	THERMO STR ARROW-90 M EA	4" YELLOW PAINT LF	4" WHITE PAINT LF	PAINT LT ARROW EA	PAINT STR ARROW EA	SNOW PLOWABLE MARKERS EA	
44682.3.1	Northampton	1	US 258	FROM HALIFAX COUNTY LINE TO SR 1108	1	2	2WU	NO	NO	YES	4.65	32	524	1	50,023	30,683							30,683	50,023			315
44682.3.1	Northampton	2	US 258	AT SR 1108 (CHAPEL HILL CHURCH RD)	2	2	2WU	NO	NO	YES	0.20	35	24	*	2,195	2,500	125	250	25	2	2	2,500	2,195	2	2	25	
44682.3.1	Northampton	3	US 258	FROM SR 1108 TO BEGINNING OF CURB AND GUTTER	1	2	2WU	NO	NO	YES	1.00	32	120	*	10,803	6,626		150				6,626	10,803			67	
44682.3.1	Northampton	4	US 258	CURB AND GUTTER SECTION	3	2	2WU	NO	NO	YES	0.09	40	24	*	1,000	1,500	125	100	25	2	2	1,500	1,000	2	2	12	
44682.3.1	Northampton	5	US 258	FROM END OF CURB AND GUTTER SECTION TO RICH SQUARE CITY LIMITS	1	2	2WU	NO	NO	YES	0.50	32	60	*	5,402	3,313		250				3,313	5,402			35	
GRAND TOTAL											6.45		752	1	69,423	44,622	250	750	50	4	4	44,622	69,423	4	4	454	

8/17/99

REVISIONS

03-APR-2017 08:47
 \uticad\213661\user\8\dstk\top\Current Projects\R-5758-US 258-D00347-Nor-thampton\44682.1.1.D01.pah4.dgn
 11/11/2017 10:25:31

END MAP IBACK STA. 255+46
 BEGIN MAP 2 AHEAD STA. 13+22.86



BM "A"
 ELEV. 78.28
 N 914520
 E 2495737
 21.36' LT
 CHISLED X ON BONNET BOLT

WD POST
 R22W

BENNETT HEIRS, LLC
 DB 1009 PG 491
 PB 19 PG 15

GUY POLE

GVL

11' POT

1- STA 13+22.86
 BEGIN RESURFACING

1- STA 14+80.5
 BEGIN PAVEMENT TAPER

1- STA 15+56.63
 END PAVEMENT TAPER

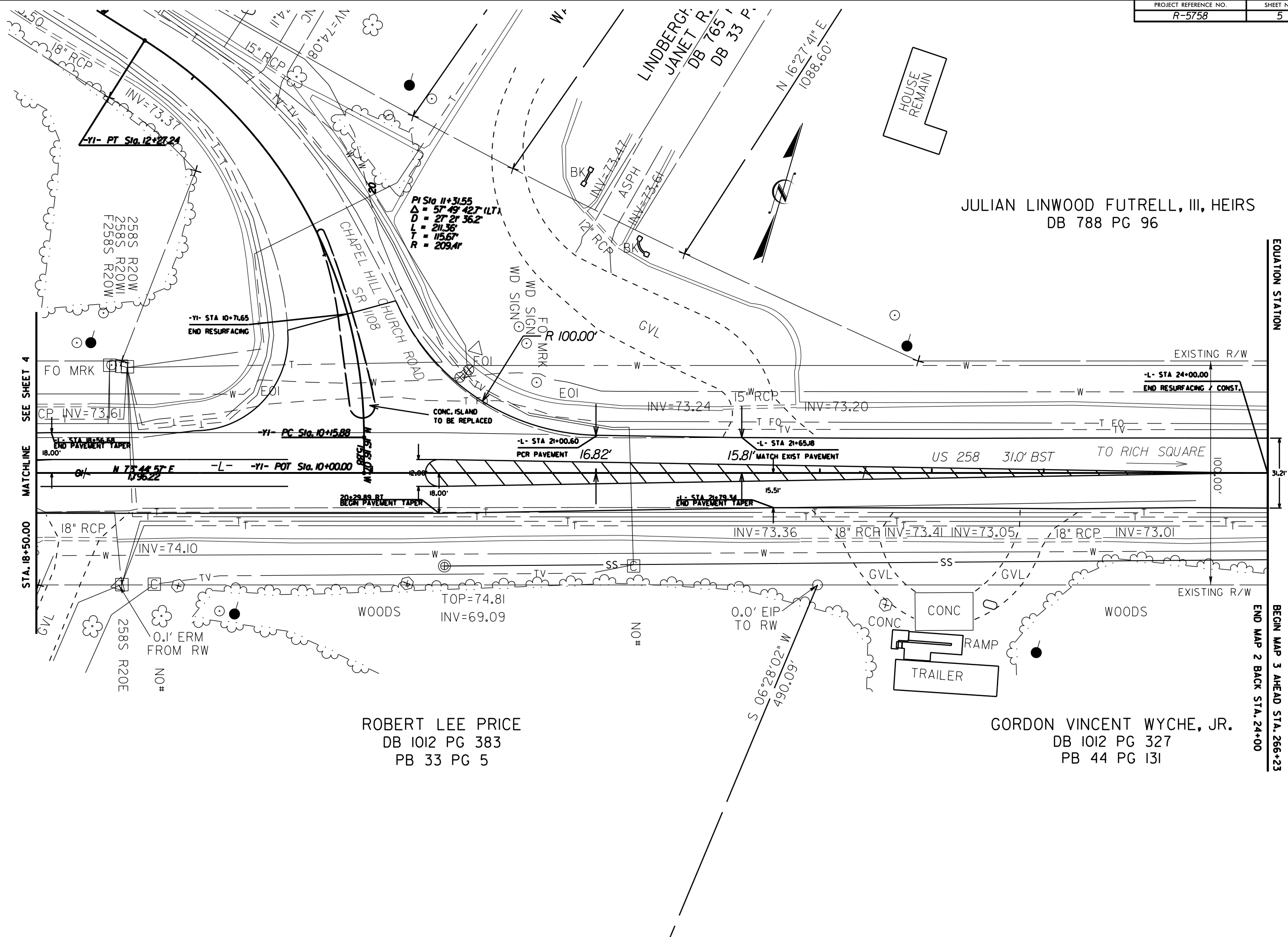
1- STA 16+89.02
 BEGIN PAVEMENT TAPER

TO SCOTLAND NECK
 ←

C. R. TURNER HEIRS
 DB 343 PG 590
 MB 1PG 56

S 06°28'04" W
 356.48'

STA. 18+50.00
 MATCHLINE
 SHEETS 5



JULIAN LINWOOD FUTRELL, III, HEIRS
DB 788 PG 96

ROBERT LEE PRICE
DB 1012 PG 383
PB 33 PG 5

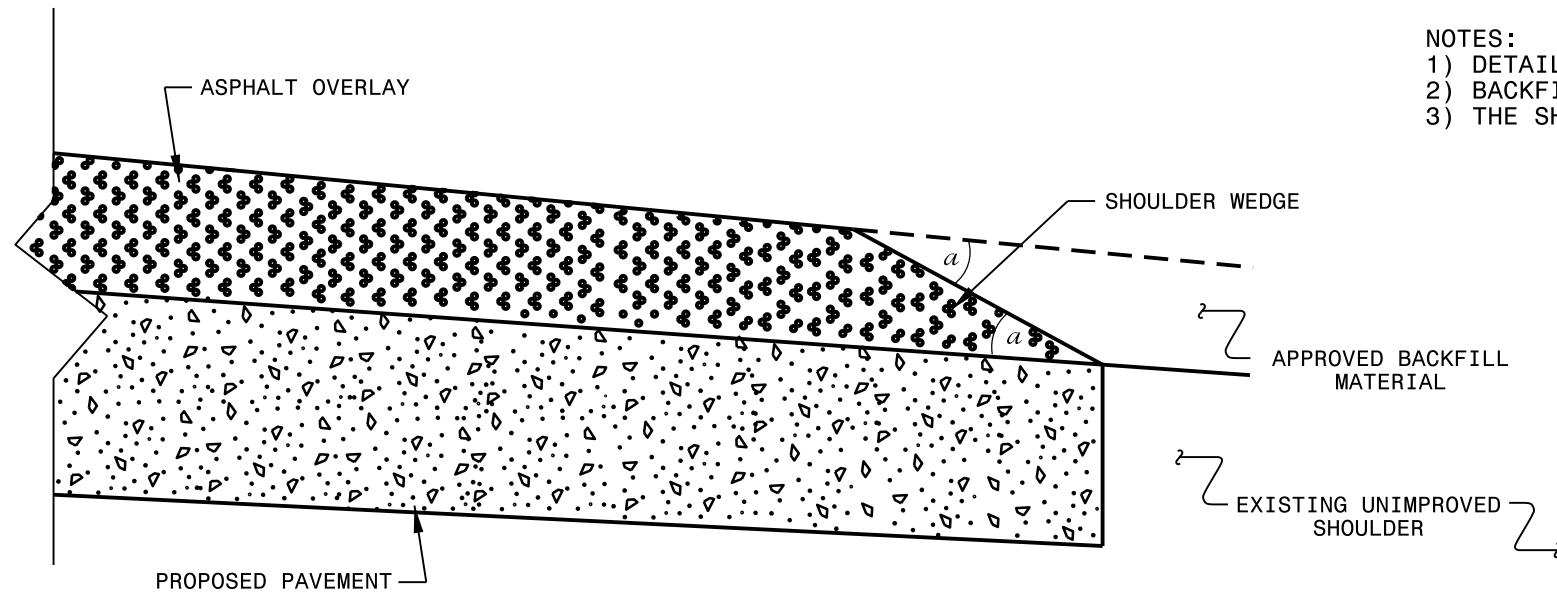
GORDON VINCENT WYCHE, JR.
DB 1012 PG 327
PB 44 PG 131

EQUATION STATION
BEGIN MAP 3 AHEAD STA. 266+23
END MAP 2 BACK STA. 24+00

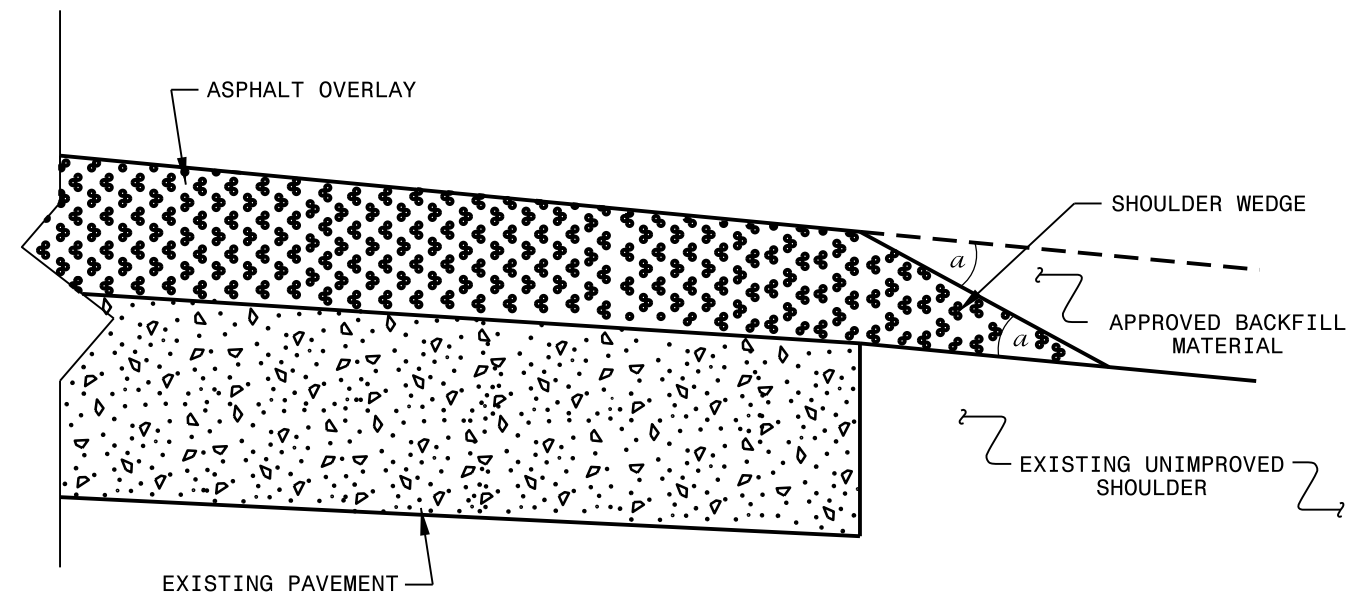
REVISIONS

8/17/99
03-APR-2017 08:41
\\utccad2\3661\user\8\dest\top\Current Projects\R-5758-US 258-D000347-Nor-thampton\44682.1.1.D01.ph5.dgn

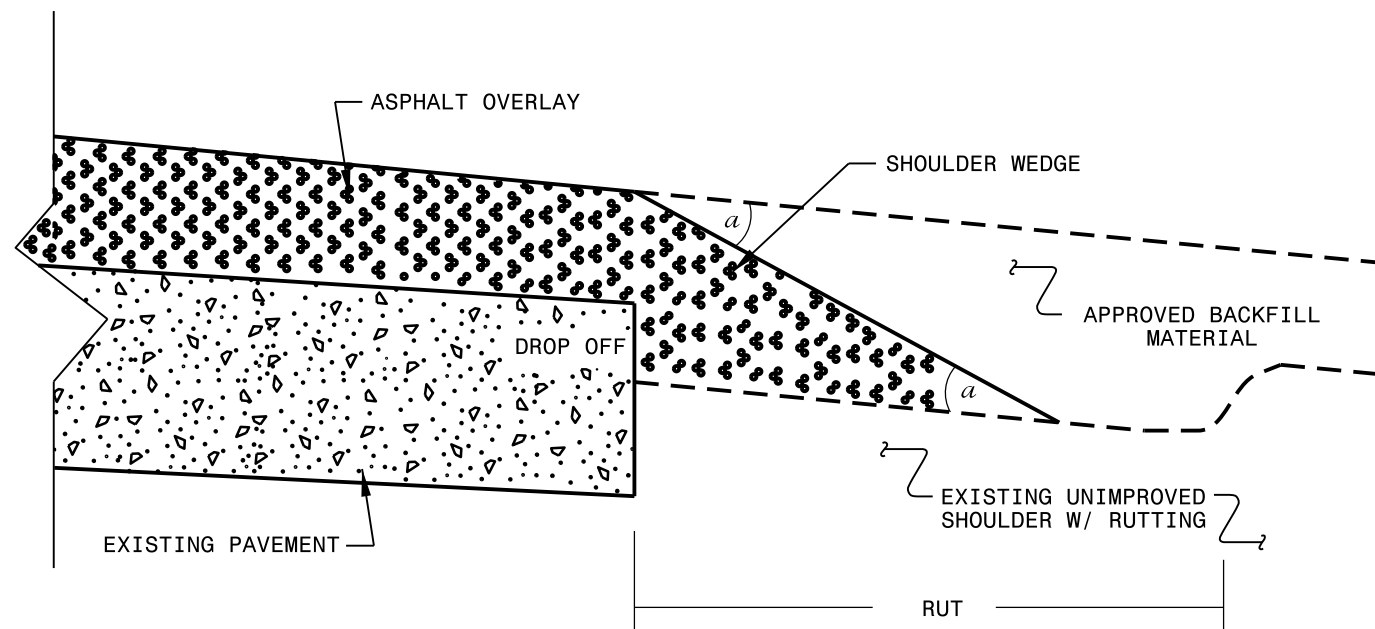
- NOTES:
 1) DETAIL DOES NOT APPLY TO OGAFC AND ULTRA-THIN BONDED WEARING COURSE.
 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



SHOULDER WEDGE DETAIL
 (Resurfacing Projects w/ Widening or
 with Existing Paved Shoulder having no dropoffs)



SHOULDER WEDGE DETAIL
 (Resurfacing Projects w/ NO Widening)

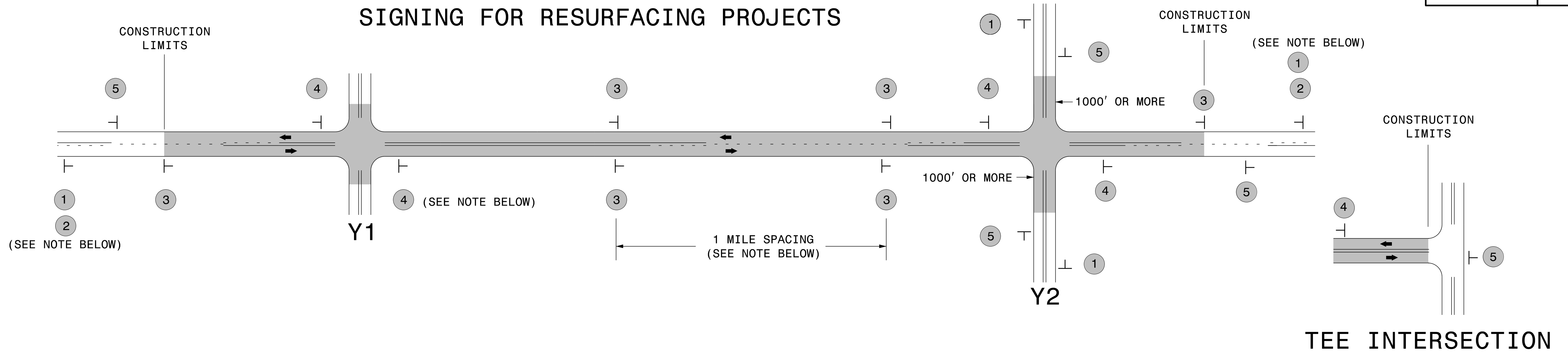


SHOULDER WEDGE DETAIL
 (Resurfacing Adjacent to
 Rutted Shoulder)

- SHOULDER WEDGE ANGLE = 30°

CONTRACT STANDARDS AND DEVELOPMENT UNIT	
Office 919-707-6950 FAX 919-250-4119	
SHOULDER WEDGE DETAILS	
ORIGINAL BY: T.SPELL	DATE: 7-19-11
MODIFIED BY:	DATE: 10/16/12
CHECKED BY:	DATE:
FILE SPEC.: s:\usr\details\stand\shoulderwedgedetail.dgn	

SIGNING FOR RESURFACING PROJECTS



LEGEND	
┆	STATIONARY SIGN
←	DIRECTION OF TRAFFIC FLOW

MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	1	ROAD WORK AHEAD W20-1 48" X 48"	PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.
	2	NEXT XX MILES W7-3aP 24" X 18"	#2 SIGN ONLY USED WHEN RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER. (NO FRACTIONAL OR DECIMAL NUMBERS)
	3	LOW/SOFT SHOULDER SP 13107 48" X 48"	- PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACE 1 MILE APART THEREAFTER. - AT TEE INTERSECTIONS INSTALL INITIALLY 0.5 MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER.
	4	ROAD UNDER CONST SP 13106 48" X 48"	- THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS. DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS. - INSTALL 500' +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE. - FOR MULTIPLE -Y- LINES THAT ARE SEPARATED BY 0.25 MILES OR LESS, TREAT AS A SINGLE UNIT AND INSTALL WITHIN 500' OF EACH APPROACH. - A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN. - FOR TEE INTERSECTIONS, INSTALL WITHIN 500' +/- OF THE INTERSECTION ALONG -L- LINE.
	5	END ROAD WORK G20-2 A 48" X 24"	PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.

NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:

- 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE
- 2) SUBDIVISION ROADS
- 3) DEAD END ROADS

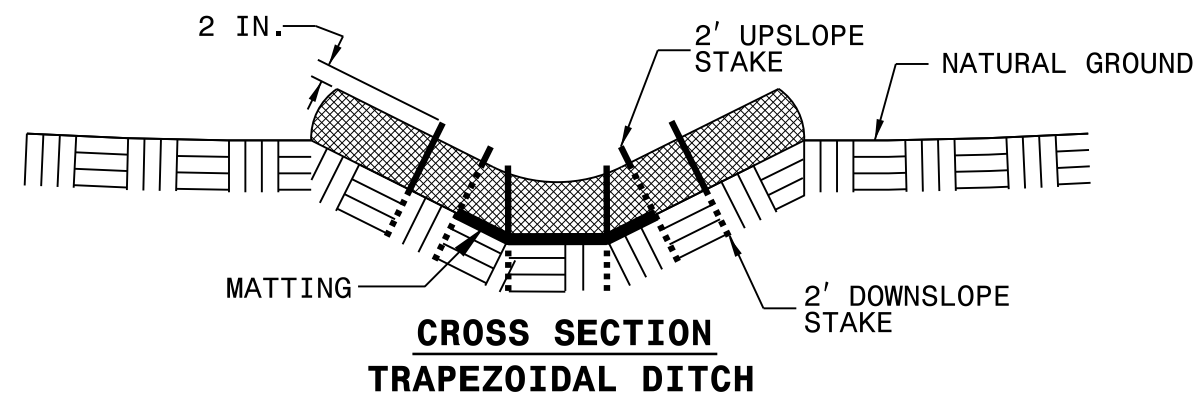
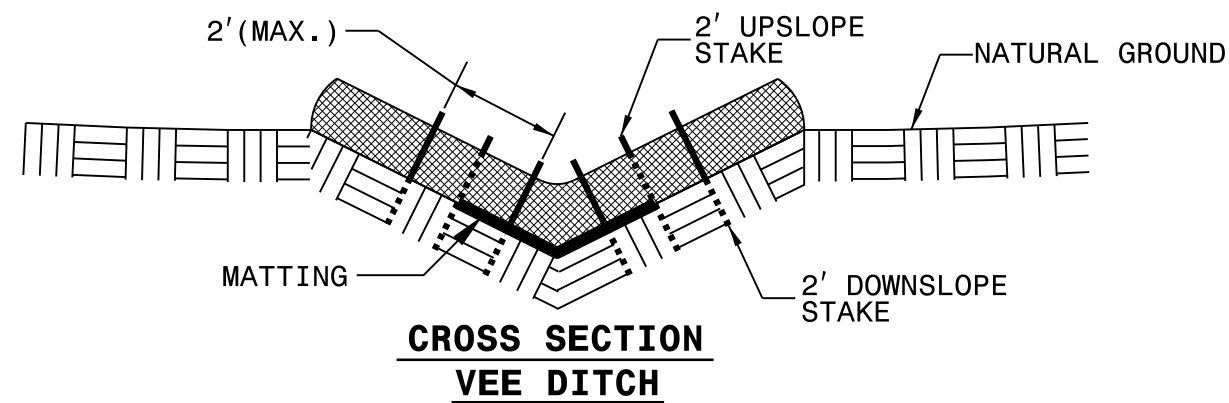
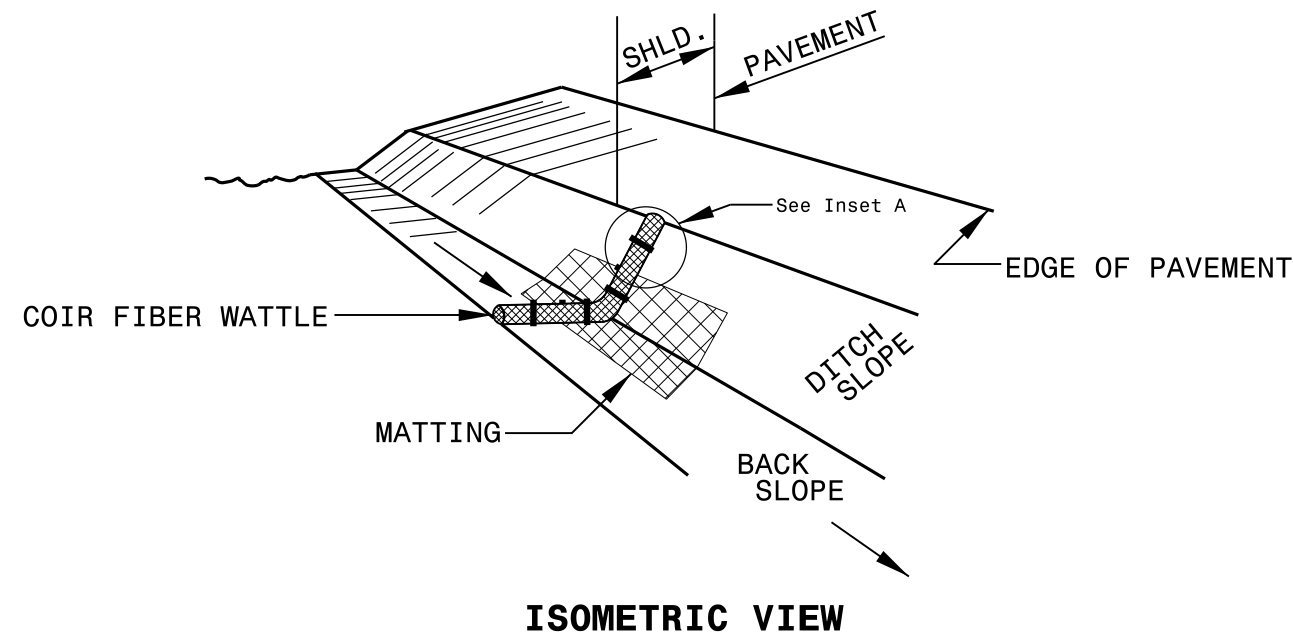
WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, ADVANCE WARNING PORTABLE SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.



PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.

	<p>RESURFACING ADVANCE WARNING SIGNS FOR RURAL AND SUBURBAN 2 LANE ROADWAYS</p>
--	--

COIR FIBER WATTLE DETAIL



NOTES:

USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

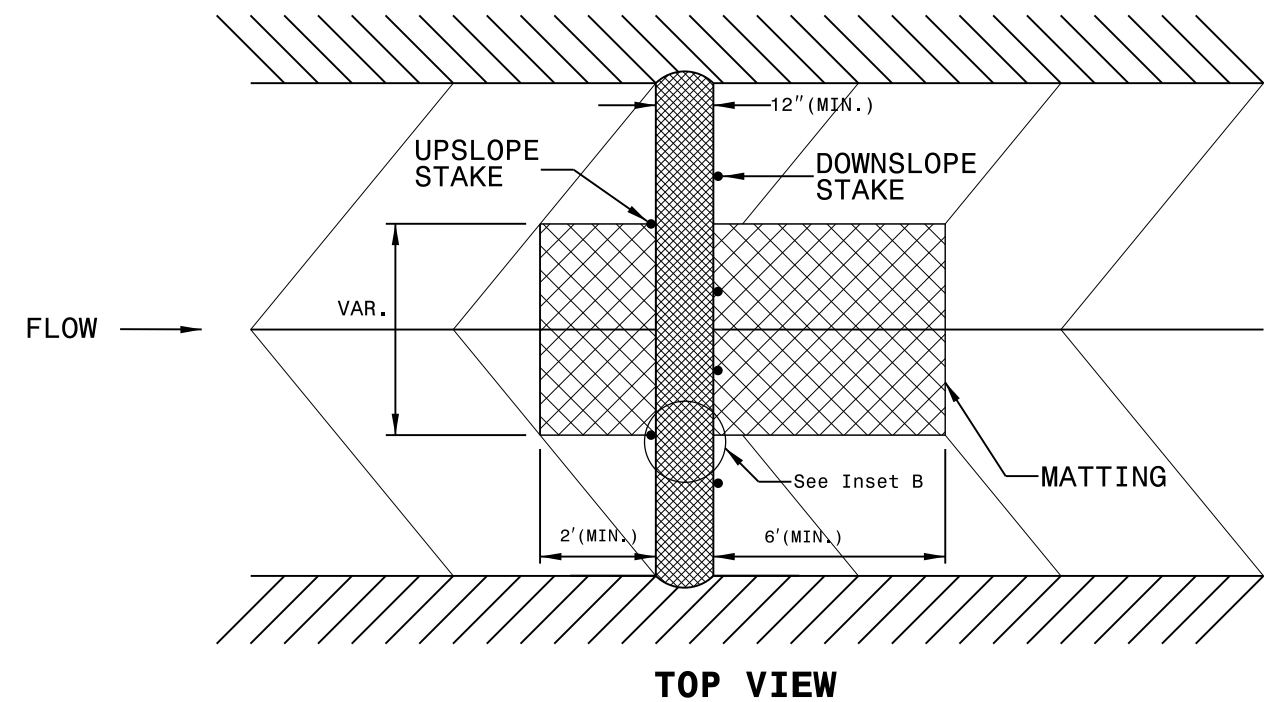
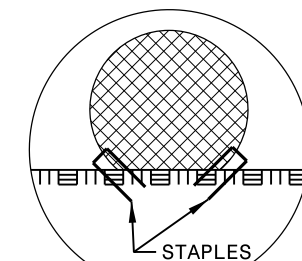
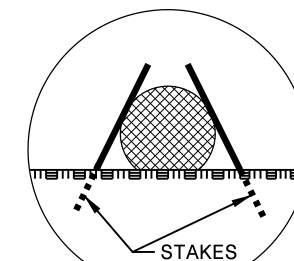
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

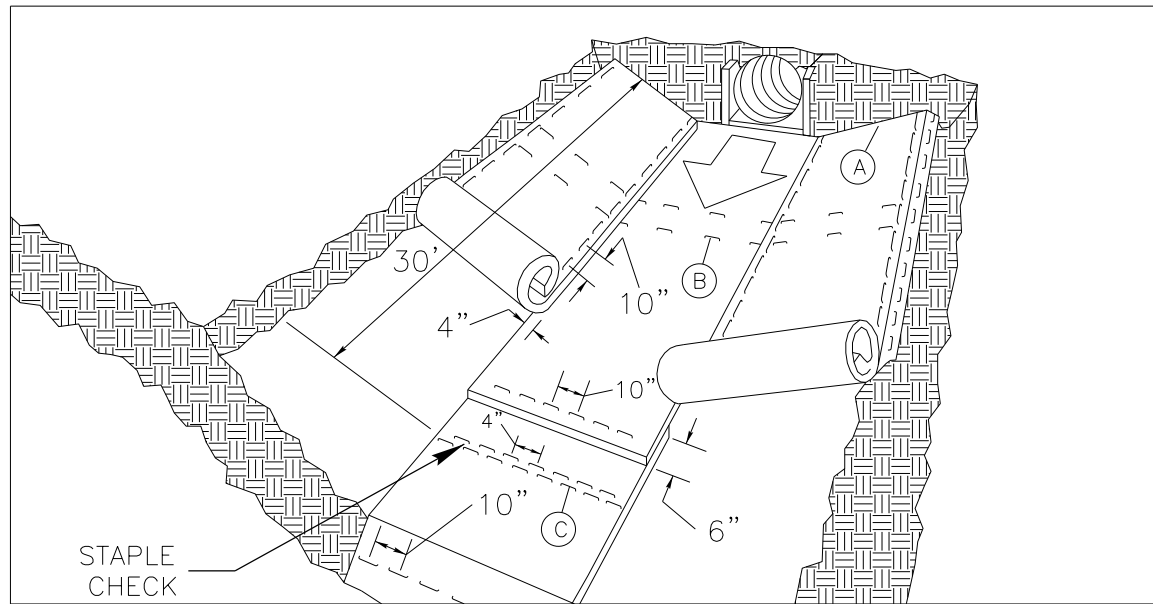
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.



MATTING INSTALLATION DETAIL



MATTING IN DITCHES

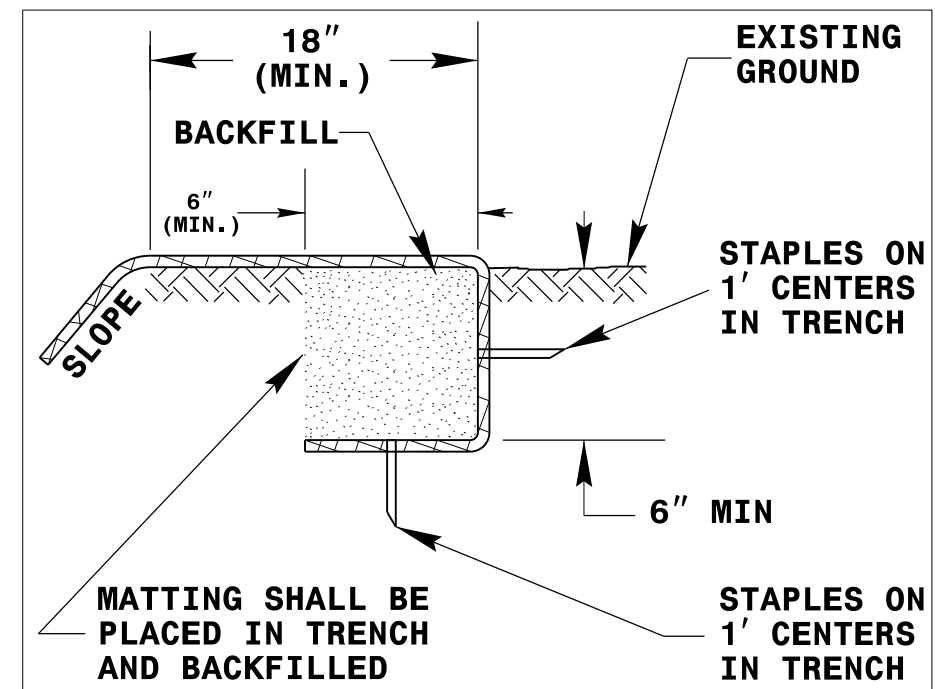
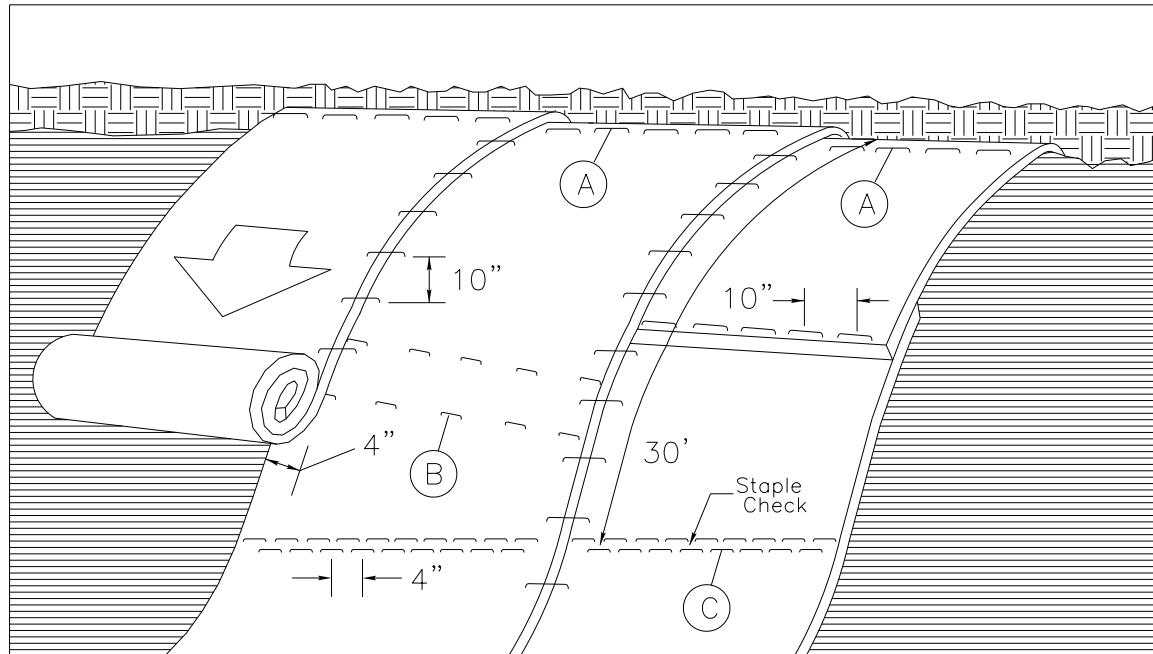


DIAGRAM (A)



MATTING ON SLOPES

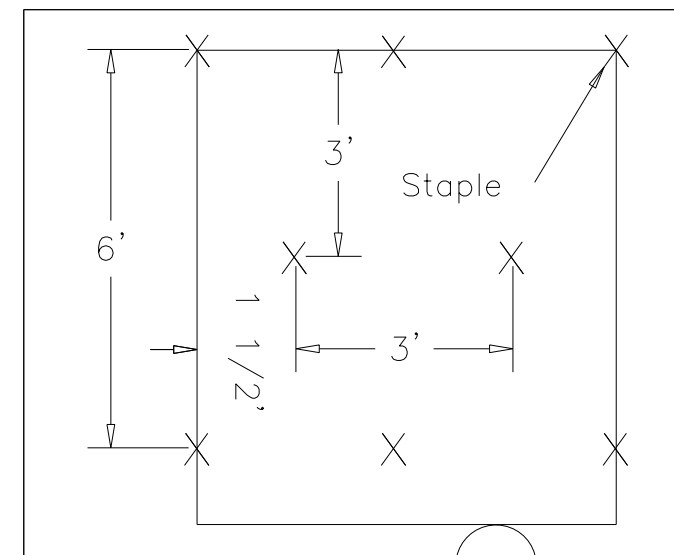


DIAGRAM B

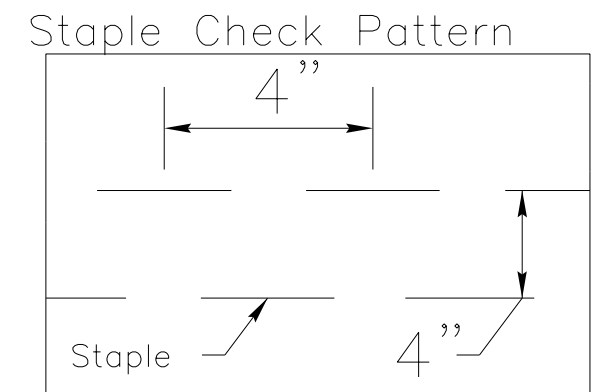


DIAGRAM (C)

NOTES:

THIS DETAIL APPLIES TO STRAW, EXCELSIOR, AND PERMANENT SOIL REINFORCEMENT MAT (PSRM) INSTALLATION.

STAPLES SHALL BE NO. 11 GAUGE STEEL WIRE FORMED INTO A "U" SHAPE WITH A MINIMUM THROAT WIDTH OF 1 INCH AND NOT LESS THAN 6 INCHES IN LENGTH.

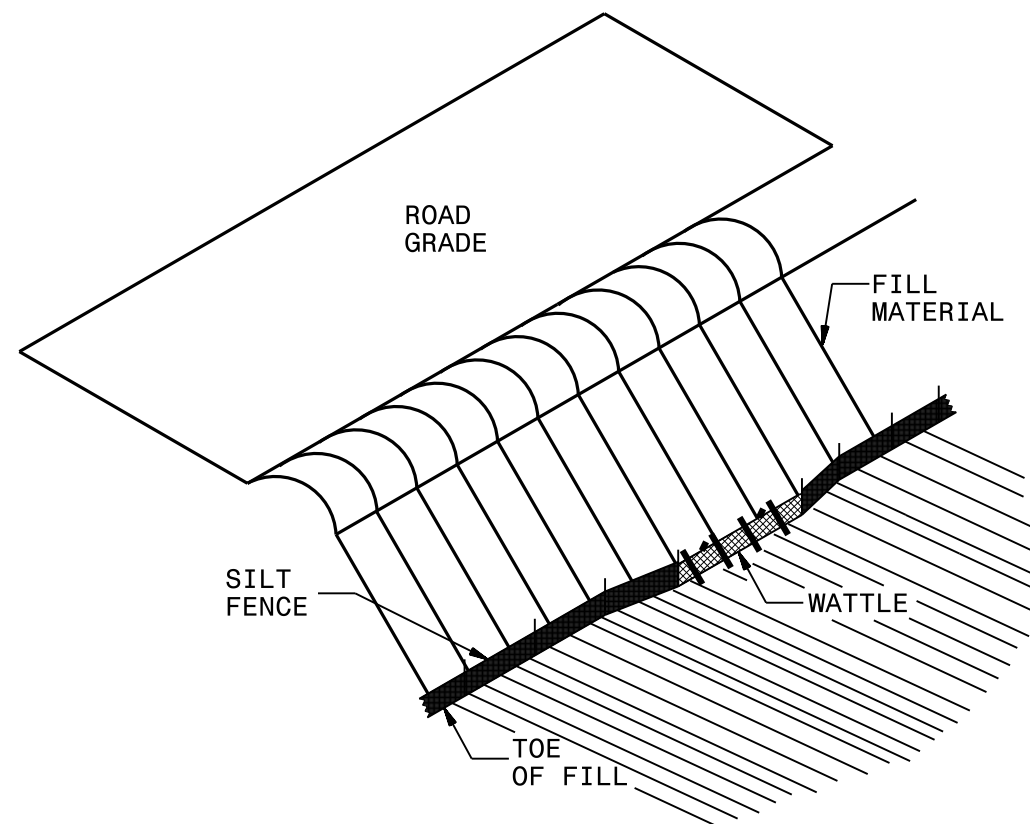
NOT TO SCALE

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

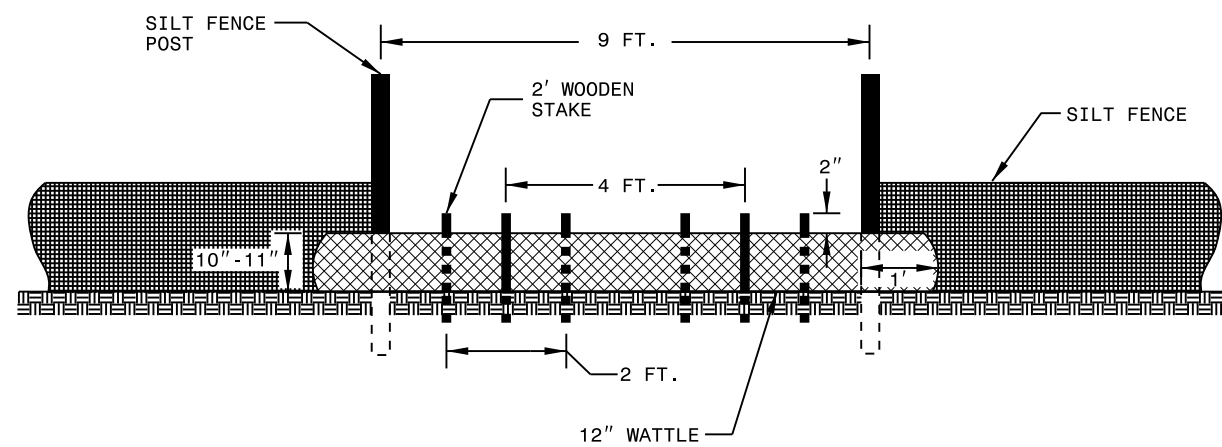
SOIL STABILIZATION TIMEFRAMES

<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HOW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HOW ZONES.

SILT FENCE COIR FIBER WATTLE BREAK DETAIL



ISOMETRIC VIEW

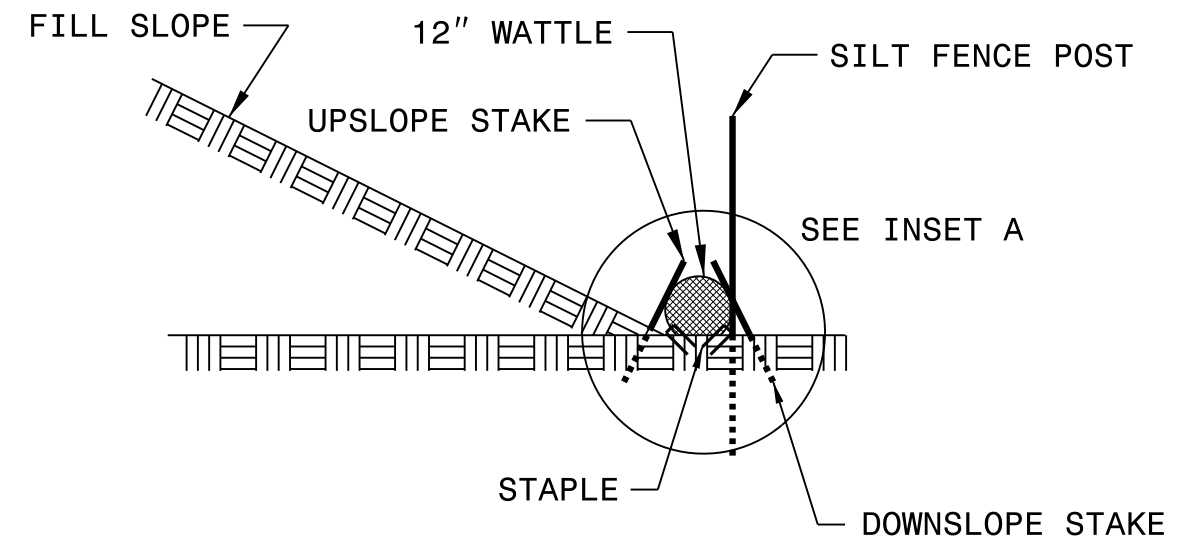
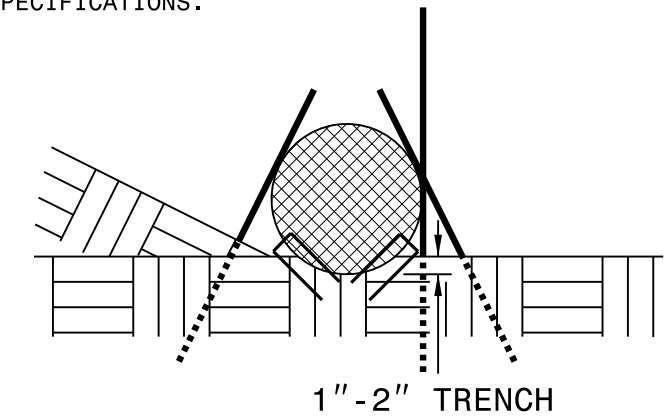


VIEW FROM SLOPE

NOTES:

- USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE AND LENGTH OF 10 FT.
- EXCAVATE A 1 TO 2 INCH TRENCH FOR WATTLE TO BE PLACED.
- DO NOT PLACE WATTLE ON TOE OF SLOPE.
- USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
- INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO GROUND.
- PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.
- INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.
- WATTLE INSTALLATION CAN BE ON OUTSIDE OF THE SILT FENCE AS DIRECTED.
- INSTALL TEMPORARY SILT FENCE IN ACCORDANCE WITH SECTION 1605 OF THE STANDARD SPECIFICATIONS.

INSET A



SIDE VIEW