

9/26/2017 4:14:00 PM Z:\Raleigh\Production\Division-6\ESC\Division-1\Task3-US17_Resurfacing\Roadway\MAP-2_PASQUOTANK\100_L_DAO0374_RDY_TSH_KEY_SHEET_PASQUOTANK.dgn
 USER: TKU

CONTRACT NO.: DA00374 WBS ELEMENT: 2018CPT.01.05.10701.1

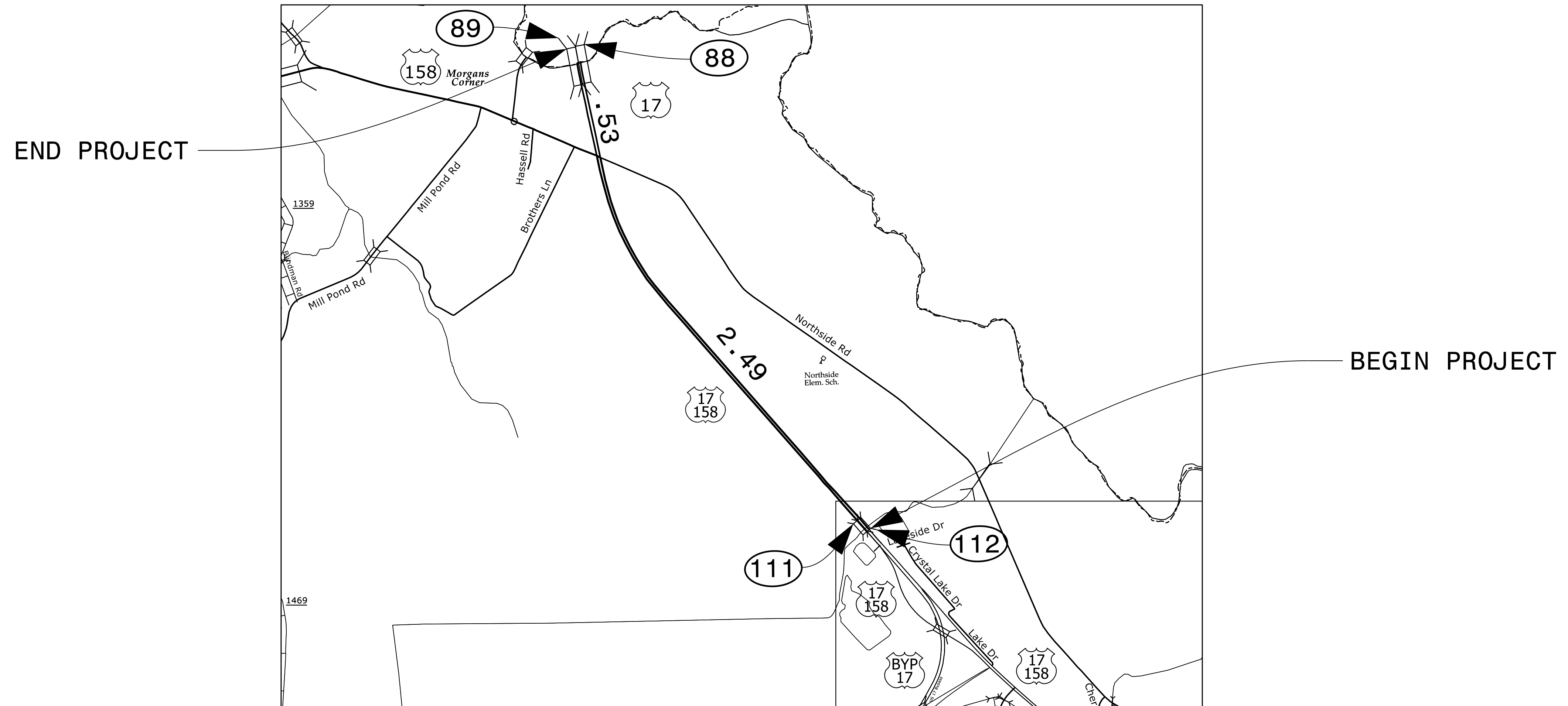
STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

PASQUOTANK COUNTY

LOCATION: US 17 FROM PASQUOTANK BRIDGE #111 & #112 TO PASQUOTANK BRIDGE #88 & #89

TYPE OF WORK: MILLING, RESURFACING, SHOULDER RECONSTRUCTION & PAVEMENT MARKINGS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	2018CPT.01.05.10701.1	1	1
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	



NTS

PROJECT LENGTH

LENGTH OF ROADWAY PROJECT = 3.02 MI.



NC FIRM LICENSE No: C-1506
 4800 Six Forks Rd.,
 Suite 120
 Raleigh, NC 27609
 (919)882-7839

Prepared for the Office of:
DIVISION OF HIGHWAYS
 113 Airport Dr., Edenton NC, 27032

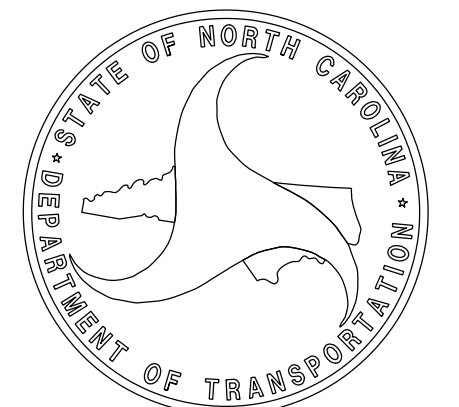
2012 STANDARD SPECIFICATIONS

LETTING DATE:

W. B. HOBBS, PE
 DIVISION PROJECT MANAGER

C. E. SLACHTA
 DIVISION PROPOSALS ENGINEER

DIVISION OF HIGHWAYS
 STATE OF NORTH CAROLINA



5/28/99
9/26/2017
Z:\Projects\Production\Division-GESC\Division-1\Task3-US17_Resurfacing\Roadway\Map-2_PASQUOTANK\100_2_D000374_RDY_GENERAL_NOTES_PASQUOTANK.dgn
USER:tkl

SHEET NUMBER	INDEX OF SHEETS SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
2A-1	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
2B-1	ROADWAY DETAILS
3B-1	SUMMARY OF QUANTITIES
TMP-1 THRU TMP-2	TRANSPORTATION MANAGEMENT PLANS

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 6 - ASPHALT BASES AND PAVEMENTS 654.01	PAVEMENT REPAIRS
DIVISION 7 - CONCRETE PAVEMENTS AND SHOULDERS 700.05	TYING PROPOSED PAVEMENT TO EXISTING

GENERAL NOTES:

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

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.

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	○ EIP
Computed Property Corner	-----
Property Monument	□ ECM
Parcel/Sequence Number	① 23
Existing Fence Line	-----
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	----- WLB
Proposed Wetland Boundary	----- WLB
Existing Endangered Animal Boundary	----- EAB
Existing Endangered Plant Boundary	----- EPB
Existing Historic Property Boundary	----- HPB
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	○ MILEPOST 35
Switch	□ 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 Easment Pin and Cap	◇
New Permanent Easment Pin and Cap	◆
Vertical Benchmark	⊠
Existing Right of Way Marker	△
Existing Right of Way Line	-----
New Right of Way Line	----- R/W
New Right of Way Line with Pin and Cap	----- R/W ▲
New Right of Way Line with Concrete or Granite R/W Marker	----- ▲ R/W
New Control of Access Line with Concrete C/A Marker	----- ▲ C/A
Existing Control of Access	----- C/A
New Control of Access	----- C/A
Existing Easement Line	----- E
New Temporary Construction Easement	----- E
New Temporary Drainage Easement	----- TDE
New Permanent Drainage Easement	----- PDE
New Permanent Drainage / Utility Easement	----- DUE
New Permanent Utility Easement	----- PUE
New Temporary Utility Easement	----- TUE
New Aerial Utility Easement	----- AUE

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	----- C
Proposed Slope Stakes Fill	----- F
Proposed Curb Ramp	----- CR
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	----- Vineyard

EXISTING STRUCTURES:

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

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.*)	----- P
U/G Power Line LOS C (S.U.E.*)	----- P
U/G Power Line LOS D (S.U.E.*)	----- P

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.*)	----- T
U/G Telephone Cable LOS C (S.U.E.*)	----- T
U/G Telephone Cable LOS D (S.U.E.*)	----- T
U/G Telephone Conduit LOS B (S.U.E.*)	----- TC
U/G Telephone Conduit LOS C (S.U.E.*)	----- TC
U/G Telephone Conduit LOS D (S.U.E.*)	----- TC
U/G Fiber Optics Cable LOS B (S.U.E.*)	----- T FO
U/G Fiber Optics Cable LOS C (S.U.E.*)	----- T FO
U/G Fiber Optics Cable LOS D (S.U.E.*)	----- T FO

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	----- A/G Water

TV:

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

GAS:

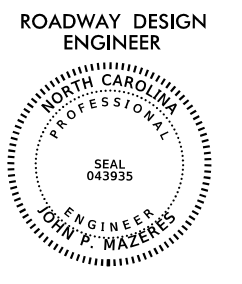
Gas Valve	◇
Gas Meter	⊕
U/G Gas Line LOS B (S.U.E.*)	----- G
U/G Gas Line LOS C (S.U.E.*)	----- G
U/G Gas Line LOS D (S.U.E.*)	----- G
Above Ground Gas Line	----- A/G Gas

SANITARY SEWER:

Sanitary Sewer Manhole	⊕
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	----- SS
Above Ground Sanitary Sewer	----- A/G Sanitary Sewer
SS Forced Main Line LOS B (S.U.E.*)	----- FSS
SS Forced Main Line LOS C (S.U.E.*)	----- FSS
SS Forced Main Line LOS D (S.U.E.*)	----- FSS

MISCELLANEOUS:

Utility Pole	●
Utility Pole with Base	□
Utility Located Object	○
Utility Traffic Signal Box	⊠
Utility Unknown U/G Line LOS B (S.U.E.*)	----- UTL
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.

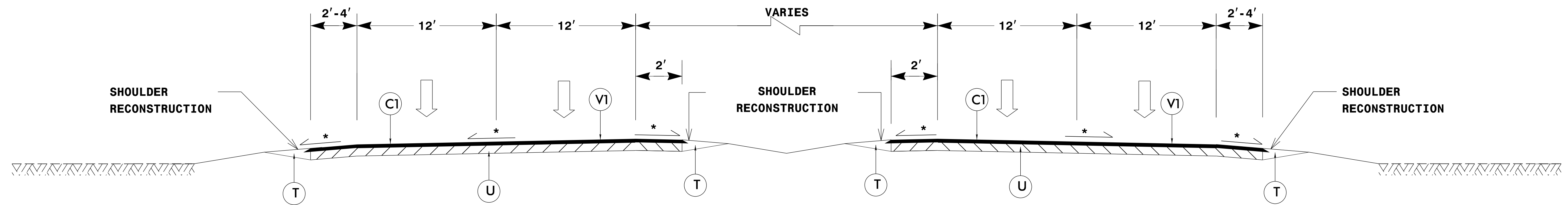


DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PAVEMENT SCHEDULE	
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" DEPTH.
U	EXISTING PAVEMENT.
T	EARTH MATERIAL

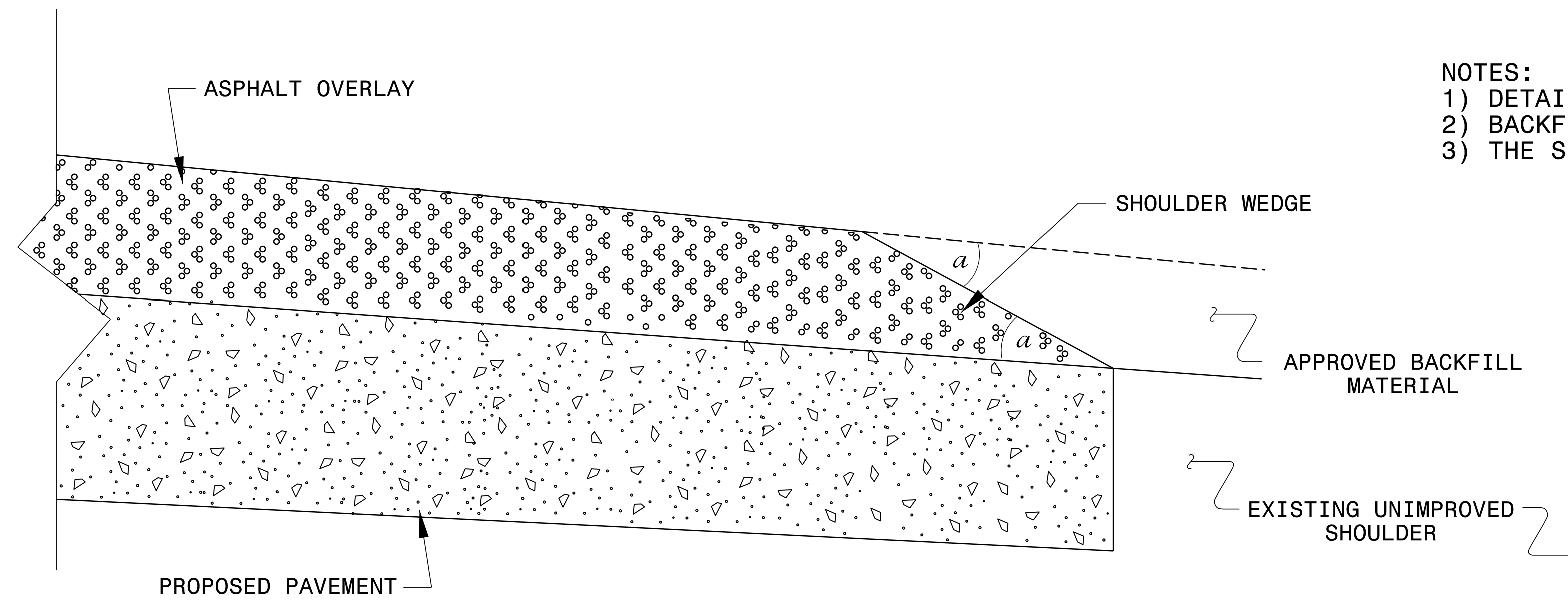
NOTES:

1. ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII., OR AS DIRECTED BY THE ENGINEER.
2. EDGES, PAVEMENT WIDENING, INTERSECTIONS, AND BRIDGE FLARES ARE INCLUDED IN THE SUMMARY OF QUANTITIES.
3. CONTRACTOR SHALL MILL 1.5" BELOW EXISTING PAVEMENT.
4. INDUCTIVE LOOPS SHALL BE INSTALLED PRIOR TO FINAL LIFT OF SURFACE BEING INSTALLED.
5. PAVEMENT WIDTH VARIES BASED ON SHOULDER WIDTH.
6. * MATCH EXISTING CROSS SLOPE.

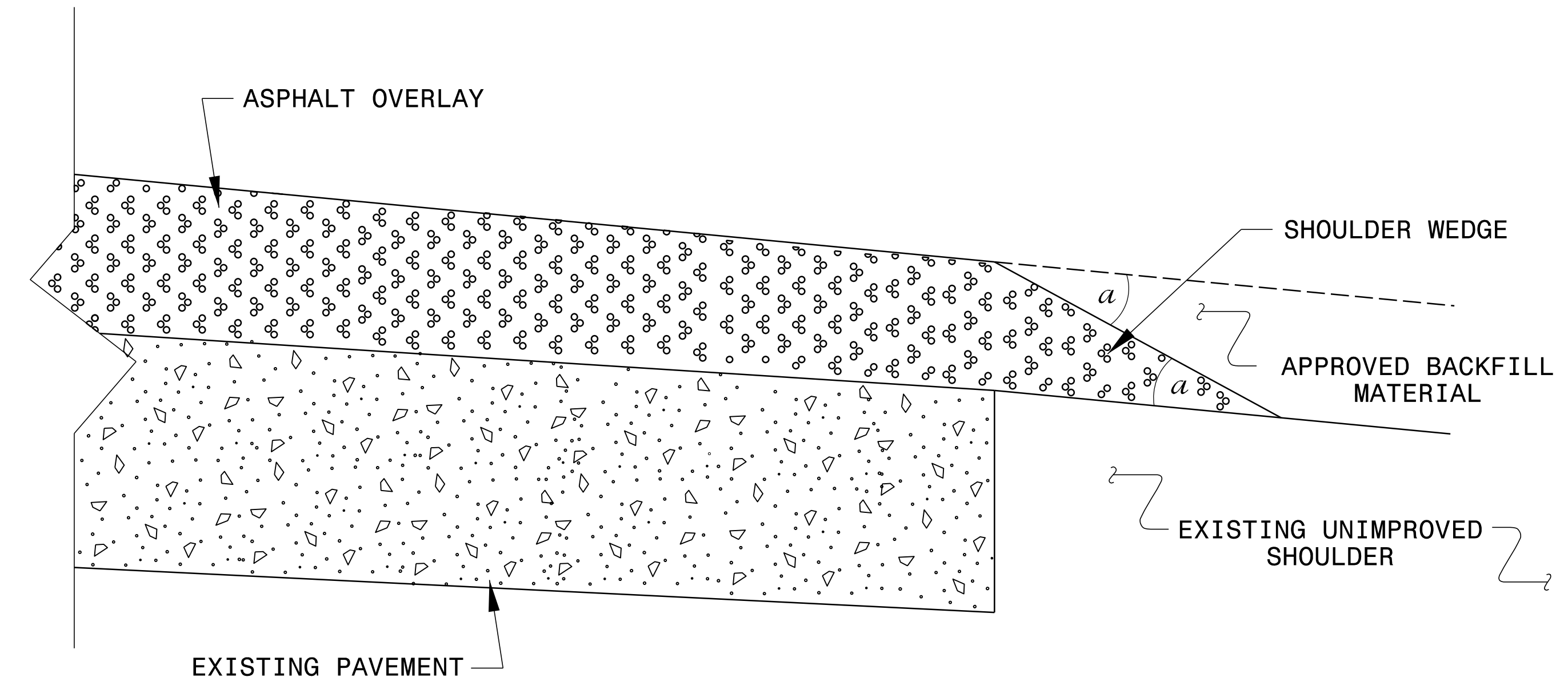


TYPICAL SECTION #1

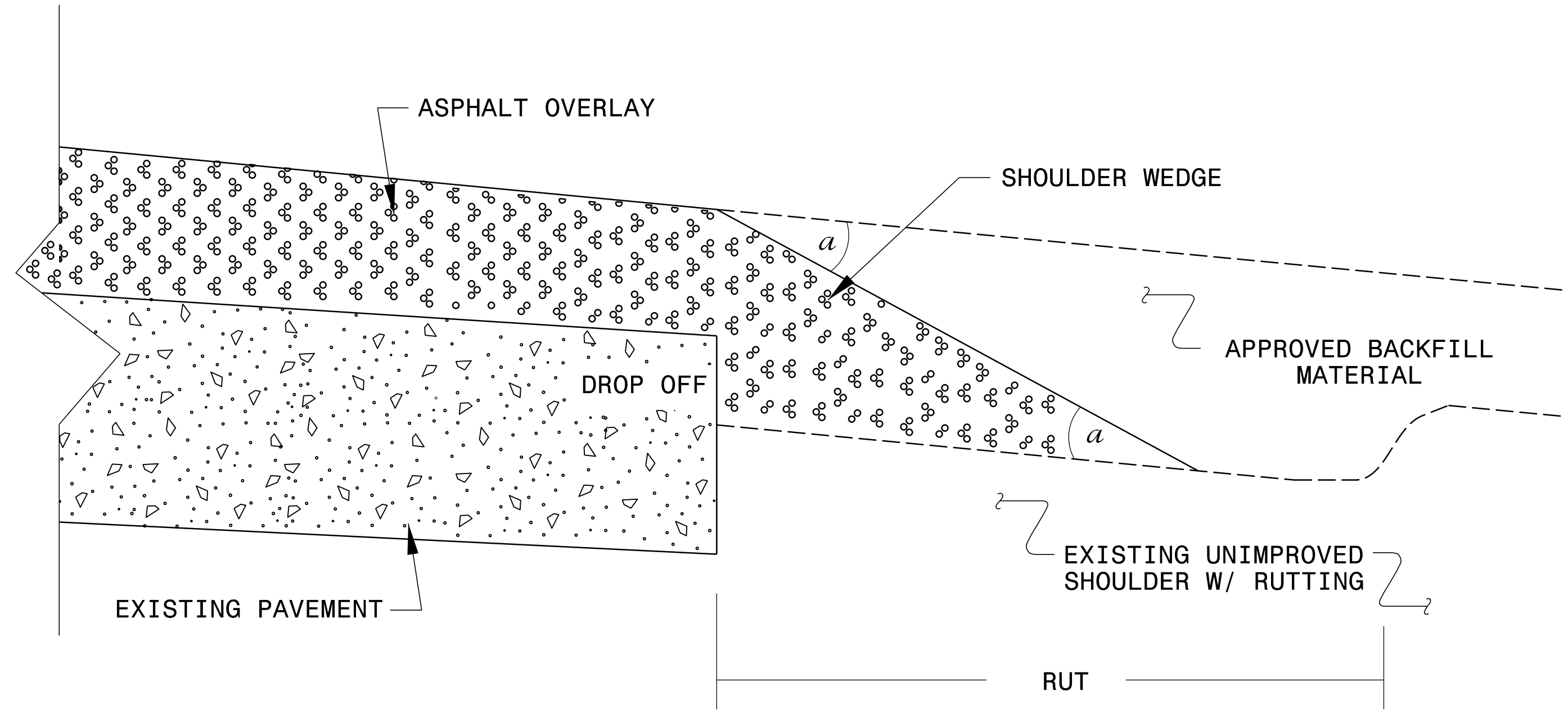
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFB AND ULTRA-THIN BONDED WEARING COURSE.
 - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



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	

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 USER: TSP

SUMMARY OF QUANTITIES

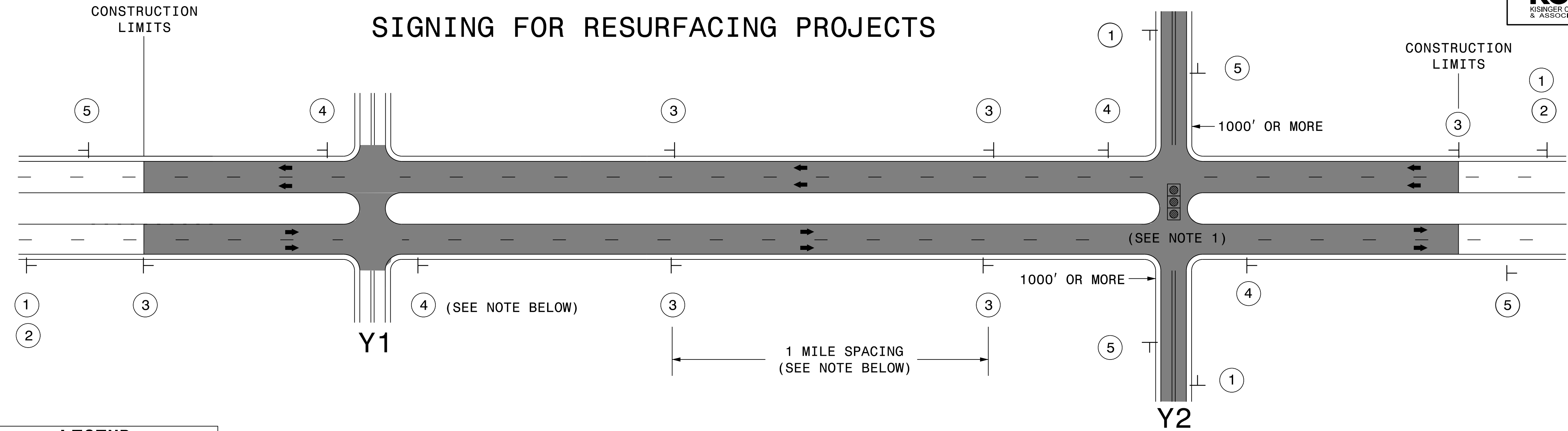
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	MATERIAL TRANSFER VEHICLE REQUIRED	LENGTH	WIDTH	TEMPORARY TRAFFIC CONTROL	MOBILIZATION	1 1/2" MILLING	SURFACE COURSE, 59.5B	WORK ZONE SIGNS (STATIONARY)	ASPHALT BINDER FOR PLANT MIX	INDUCTIVE LOOP SAWCUT	LEAD-IN CABLE (14-2)	JUNCTION BOX (STANDARD SIZE)	BORROW EXCAVATION	SHOULDER RECONSTRUCTION	SEEDING AND MULCHING	UNPAVED TRENCHING (1-2")	UNPAVED TRENCHING (1-1")	
																											MI
2018CPT.01.05.10701.1	Pasquotank	1	US 17 NB	FROM BRIDGE #112 TO US 158/ NORTHSIDE RD	1	2	MD	NO	NO	YES	2.49	29	1	1	47,826	4,033	139	242	2,900	750	10	498	4.98	2.41	300	100	
2018CPT.01.05.10701.1	Pasquotank	1	US 17 NB	FROM US 158/ NORTHSIDE RD TO BRIDGE #88	1	2	MD	NO	NO	YES	0.53	29	*	*	9,044	763	*	46	*	*	*	106	1.06	0.51	*	*	
2018CPT.01.05.10701.1	Pasquotank	1	US 17 SB	FROM BRIDGE #89 PLUS 205' TO US 158/ NORTHSIDE RD	1	2	MD	NO	NO	YES	2.49	29	*	*	14,576	1,227	*	74	*	*	*	498	4.98	2.41	*	*	
2018CPT.01.05.10701.1	Pasquotank	1	US 17 SB	FROM US 158/ NORTHSIDE RD TO BRIDGE #111	1	2	MD	NO	NO	YES	0.53	29	*	*	42,363	3,574	*	213	*	*	*	106	1.06	0.51	*	*	
GRAND TOTAL FOR PROJ NO. 2018CPT.01.05.10701.1					MAINLINE							6.04		1	1	113,810	9,600	139	580	2,900	750	10	1,208	12	6	300	100


THERMOPLASTIC PAVEMENT MARKING LINES QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	LENGTH	WIDTH	WHITE THERMO	YELLOW THERMO	WHITE THERMO	YELLOW THERMO	WHITE GORELINE	WHITE DIAGONAL	WHITE THERMO STOP BAR	THERMO LEFT TURN ARROW	THERMO RIGHT TURN ARROW	THERMO STRAIGHT ARROW	THERMO MERGE ARROW	THERMO COMBO, RIGHT/ STRAIGHT ARROW	SNOWPLOWABLE CRYSTAL & RED MARKERS	SNOWPLOWABLE YELLOW & YELLOW MARKERS		
										(4", 90 MILS) LF	(4", 90 MILS) LF	(4", 120 MILS) LF	(4", 120 MILS) LF	(8", 90 MILS) LF	(12", 90 MILS) LF	(24", 120 MILS) LF	(90 MILS) EA	(90 MILS) EA	(90 MILS) EA	(90 MILS) EA	(90 MILS) EA	EA	EA		
2018CPT.01.05.10701.1	Pasquotank	1	US 17 NB	FROM BRIDGE #112 TO US 158/ NORTHSIDE RD	1	2	MD	2.49	29	13,147	12,983	5,399	92	802	504	144	8	2	14	3	1	422	3		
2018CPT.01.05.10701.1	Pasquotank	1	US 17 NB	FROM US 158/ NORTHSIDE RD TO BRIDGE #88	1	2	MD	0.53	29	2,721	2,726	700	*	*	*	*	*	*	*	*	35	*			
2018CPT.01.05.10701.1	Pasquotank	1	US 17 SB	FROM BRIDGE #89 PLUS 205' TO US 158/ NORTHSIDE RD	1	2	MD	2.49	29	13,354	12,903	5,259	115	901	663	160	7	4	15	*	*	164	3		
2018CPT.01.05.10701.1	Pasquotank	1	US 17 SB	FROM US 158/ NORTHSIDE RD TO BRIDGE #111	1	2	MD	0.53	29	2,774	2,695	700	*	*	*	*	*	*	*	*	35	*			
TOTAL FOR PROJ NO. 2018CPT.01.05.10701.1					MAIN LINE							31,996	31,307	12,058	207	1,703	1,167	304	15	6	29	3	1	656	6
GRAND TOTAL					MAIN LINE					6.04		63,303		12,265		1,703	1,167	304		54			662		

PAINT PAVEMENT MARKING LINES QUANTITIES


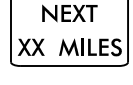


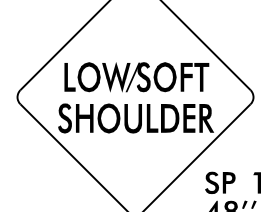
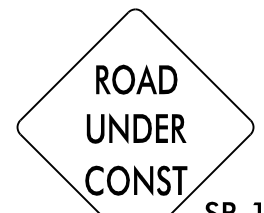
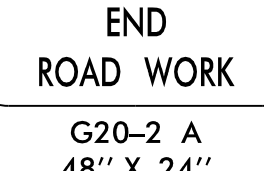
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	LENGTH	WIDTH	WHITE	YELLOW	WHITE GORELINE	WHITE DIAGONAL	WHITE STOP BAR	LEFT TURN ARROW	RIGHT TURN ARROW	STRAIGHT ARROW	MERGE ARROW	COMBO, RIGHT/ STRAIGHT ARROW		
										(4") LF	(4") LF	(8") LF	(12") LF	(24") LF	EA	EA	EA	EA	EA		
2018CPT.01.05.10701.1	Pasquotank	1	US 17 NB	FROM BRIDGE #112 TO US 158/ NORTHSIDE RD	1	2	MD	2.49	29	18,546	13,075	802	504	144	8	2	14	3	1		
2018CPT.01.05.10701.1	Pasquotank	1	US 17 NB	FROM US 158/ NORTHSIDE RD TO BRIDGE #88	1	2	MD	0.53	29	3,421	2,726	*	*	*	*	*	*	*			
2018CPT.01.05.10701.1	Pasquotank	1	US 17 SB	FROM BRIDGE #89 PLUS 205' TO US 158/ NORTHSIDE RD	1	2	MD	2.49	29	18,613	13,018	901	663	160	7	4	15	*	*		
2018CPT.01.05.10701.1	Pasquotank	1	US 17 SB	FROM US 158/ NORTHSIDE RD TO BRIDGE #111	1	2	MD	0.53	29	3,474	2,695	*	*	*	*	*	*	*			
TOTAL FOR PROJ NO. 2018CPT.01.05.10701.1					MAIN LINE							44,054	31,514	1,703	1,167	304	15	6	29	3	1
GRAND TOTAL					MAIN LINE					6.04		75,568		1,703	1,167	304		54			

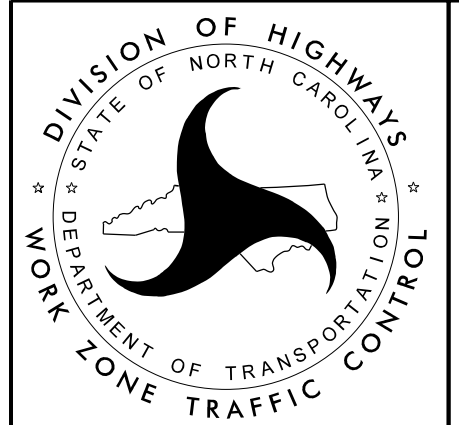


LEGEND	
	STATIONARY SIGN
	DIRECTION OF TRAFFIC FLOW

MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

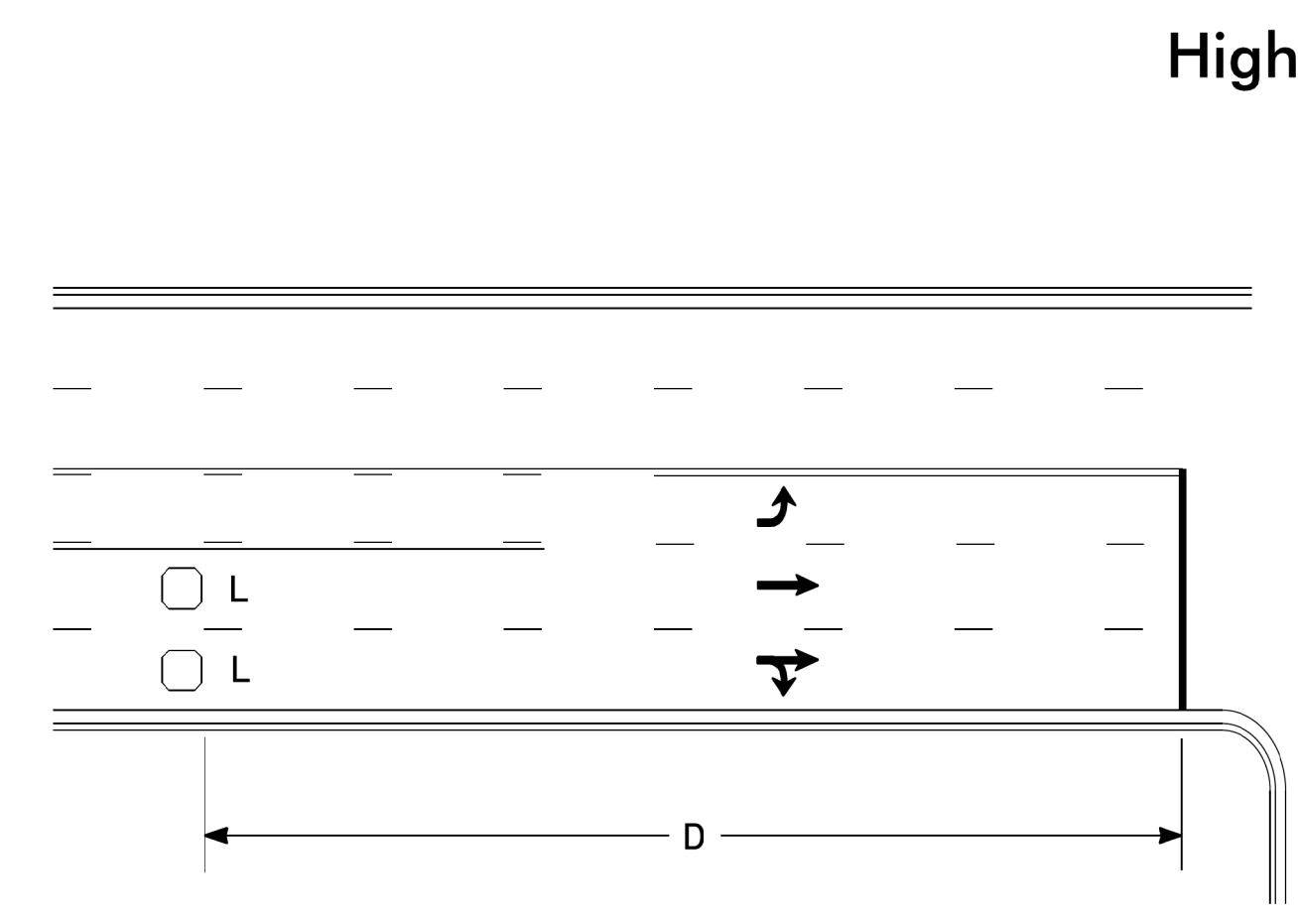
SIGNING NOTES AND PLACEMENT PER DIRECTION	 1  2	<p>PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.</p> <p>#2 SIGN ONLY USED WHEN RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER. (NO FRACTIONAL OR DECIMAL NUMBERS)</p>	<p>NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</p> <ol style="list-style-type: none"> 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE 2) SUBDIVISION ROADS 3) DEAD END ROADS <p>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.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  W20-1 48" X 48" </div> <div style="text-align: center;">  W20-7 A 48" X 48" </div> </div> <p>PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.</p> <p>NOTES:</p> <ol style="list-style-type: none"> 1) MAY USE LAW ENFORCEMENT TO CONTROL TRAFFIC AT SIGNALIZED INTERSECTIONS AS DIRECTED BY THE ENGINEER. PROVIDE PORTABLE "ROAD WORK AHEAD" (W20-1) SIGNS 500' IN ADVANCE ALONG BOTH APPROACHES FROM THE SIDE STREETS WHEN PAVING PROCEEDS THROUGH THE INTERSECTION.
	 3	<p>PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER. IF NO -Y- LINES EXIST, PLACE 2ND SET 1/2 MILE FROM THE CONSTRUCTION LIMITS AND THEN SPACE 1 MILE THEREAFTER.</p>	
	 4	<p>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.</p>	
	 5	<p>PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.</p>	



**RESURFACING
ADVANCE WARNING SIGNS
FOR RURAL AND SUBURBAN
MULTI-LANE ROADWAYS
W/ SHOULDER SECTIONS**

5/28/99
 9/26/2017
 2:15 PM
 C:\Users\jtki\Production\Division-GESC\Division-1\Task3-US17_Resurfacing\Roadway\Map-2_PASQUOTANK\200_1_DA00374_TMP_Signing_Placement_PASQUOTANK.dgn
 USER: jtki

5/28/99
 9/26/2017
 Z:\Projects\Production\Division-GESC\Division-1\Task3-US17_Resurfacing\Roadway\Map-2_PASQUOTANK\200-2_DA00374_TMP_Loop_Locations_PASQUOTANK.dgn
 USER:tkl

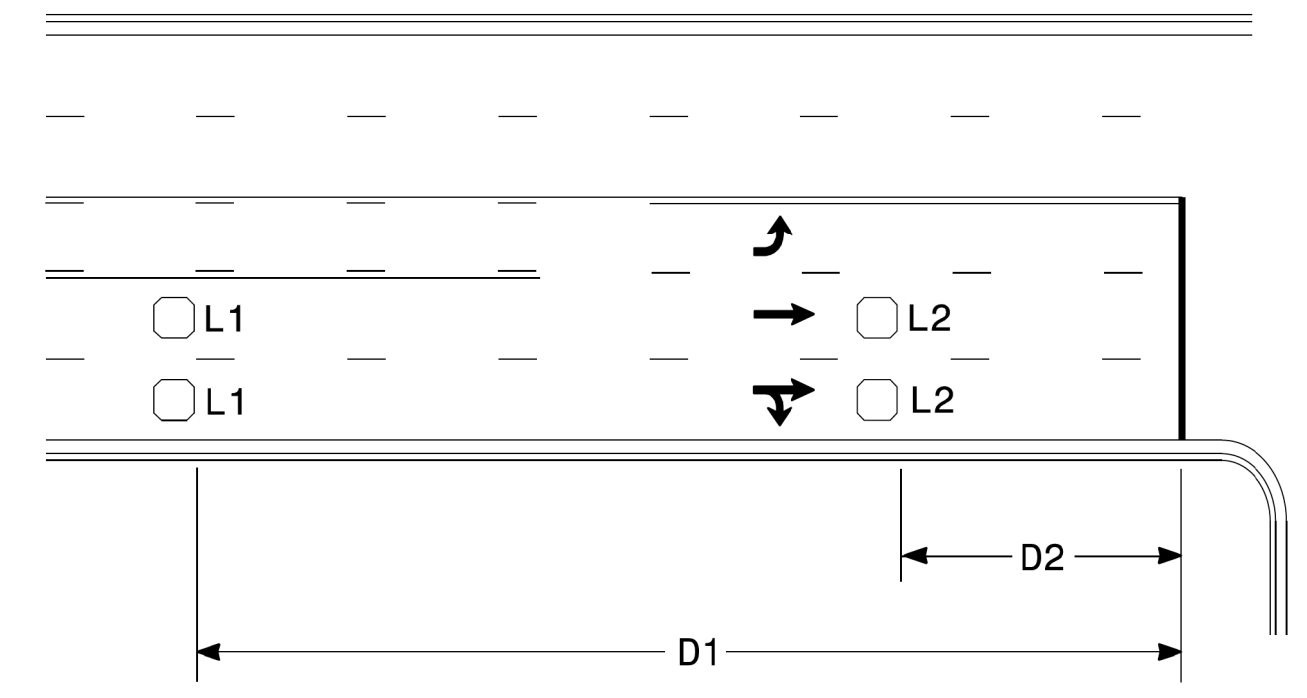


Speed Limit mph	D ft
40	250
45	300
50	355
55	420

L = 6ft X 6ft
 Wired in series for TS1
 Controllers
 Wired separately for TS2,
 170, and 2070L Controllers

Volume Density Operation

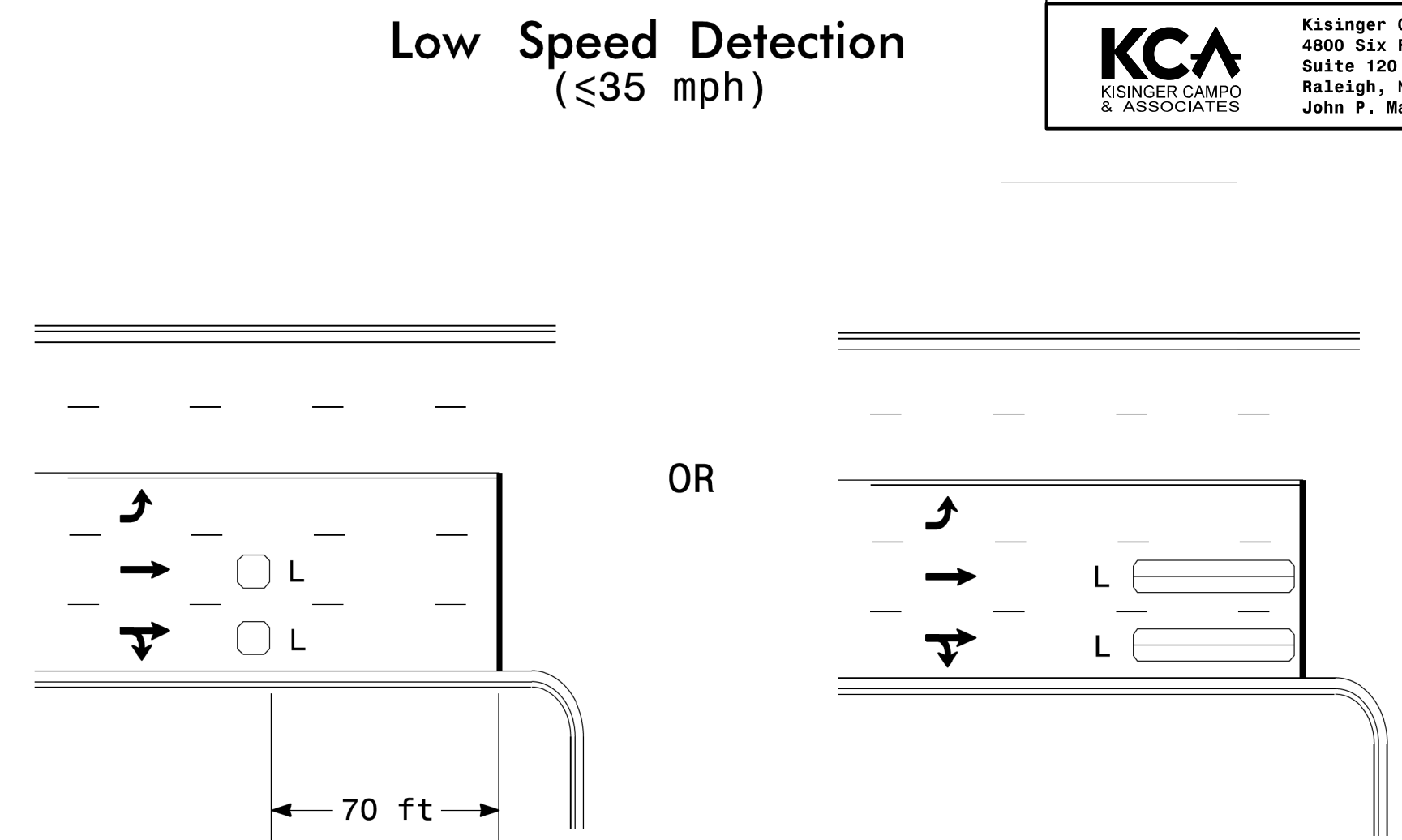
OR



Speed Limit mph	D1 ft	D2 ft
40	250	80
45	300	90
50	355	100
55	420	110

L1 = 6ft X 6ft
 Wired in series
 L2 = 6ft X 6ft
 Wired in series

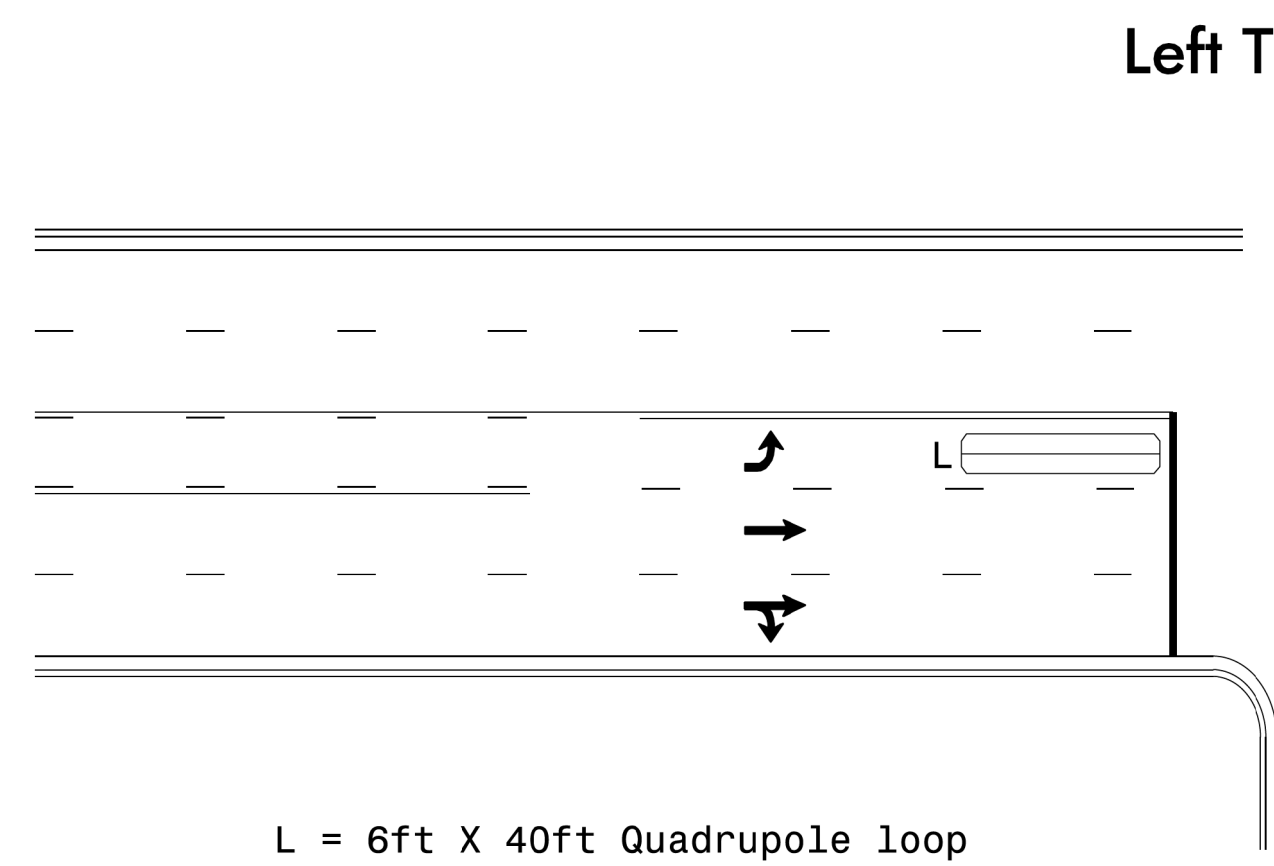
"Stretch" Operation



L = 6ft X 6ft
 Wired in series

L = 6ft X 40ft
 Quadrupole loop, wired separately

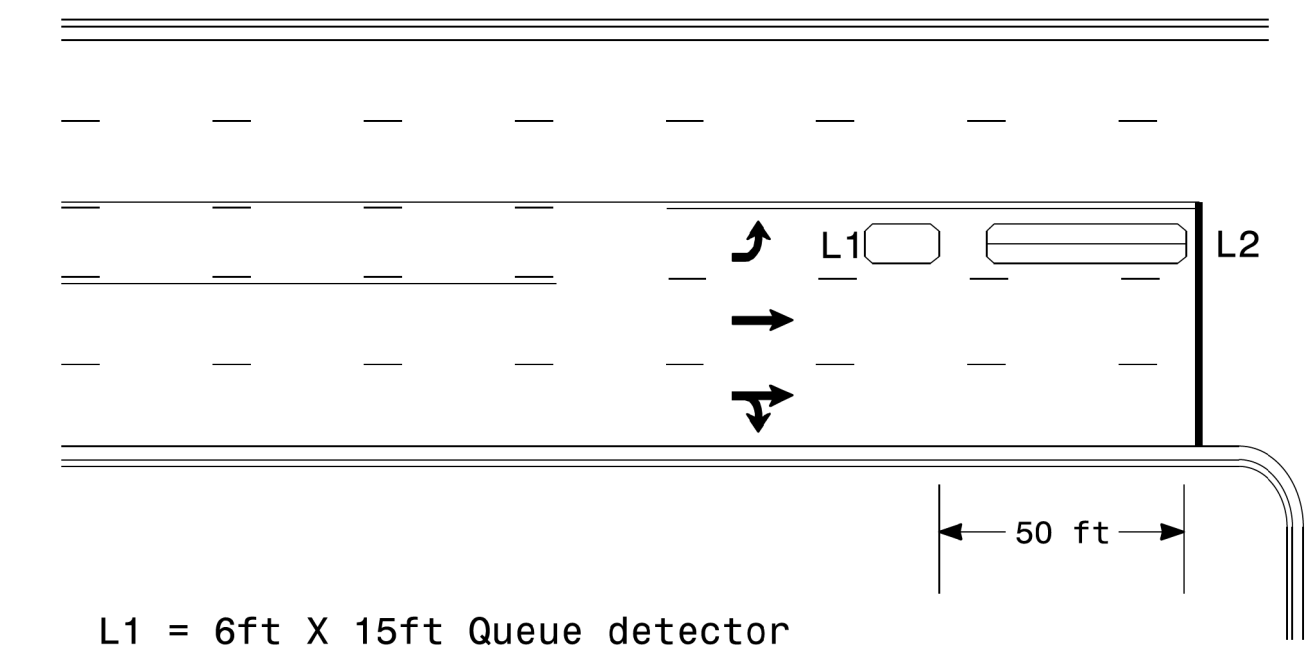
Low Speed Detection
 (≤35 mph)



L = 6ft X 40ft Quadrupole loop

Presence Loop Detection

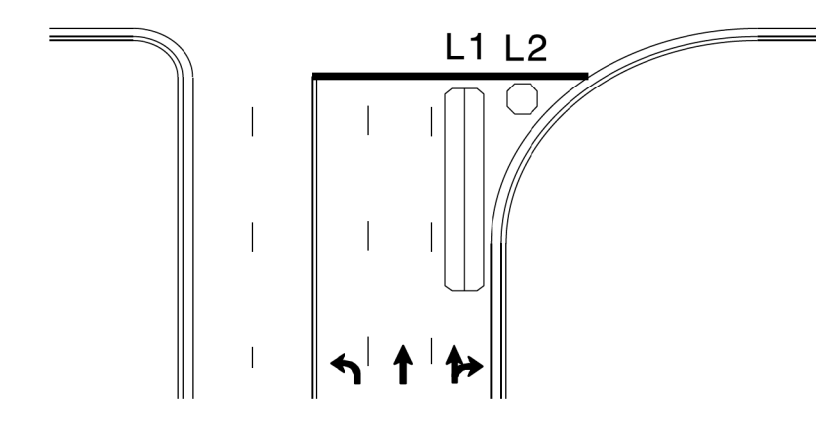
OR



L1 = 6ft X 15ft Queue detector
 L2 = 6ft X 40ft Quadrupole loop

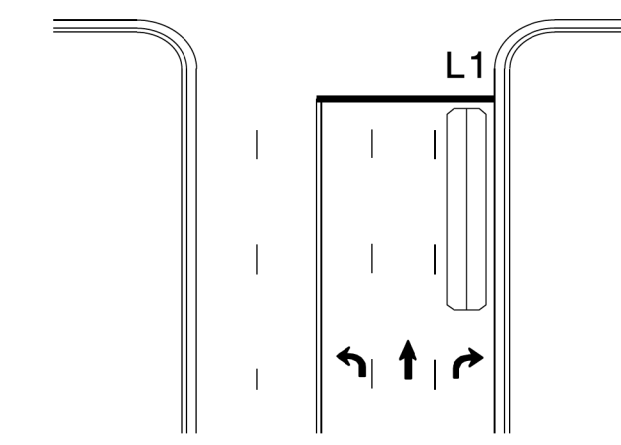
Queue Loop Detection

Left Turn Lane Detection

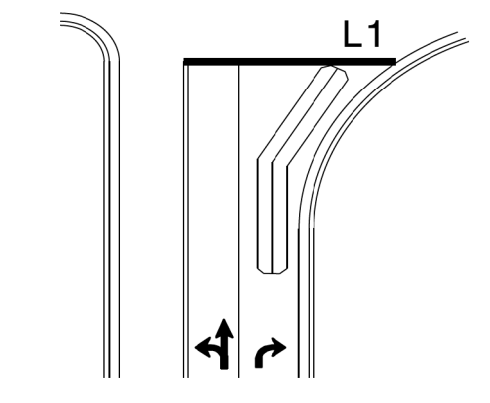


L1 = 6ft X 40ft Quadrupole loop
 L2 = 6ft X 6ft [Minimum] Presence loop
 Wired separately

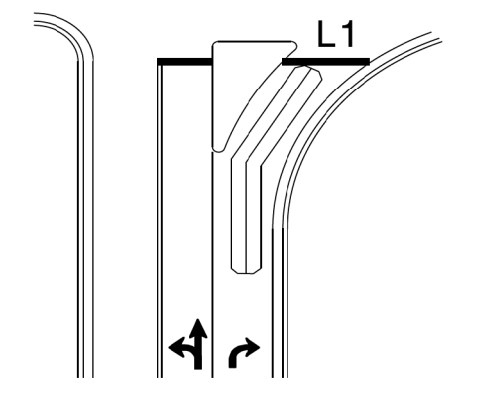
Shared Lane/
 Wide Radius Turn



Standard Turn



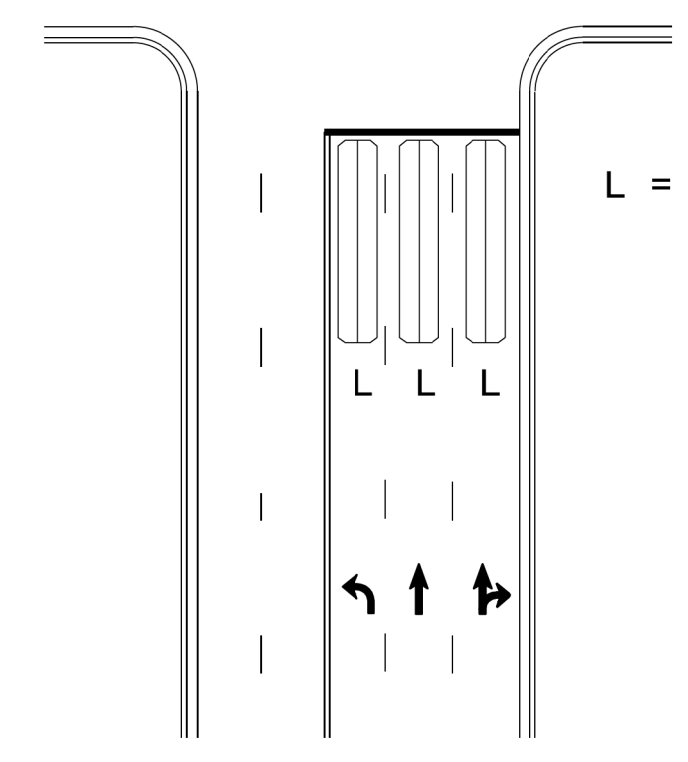
Wide Radius Turn



Channelized Turn

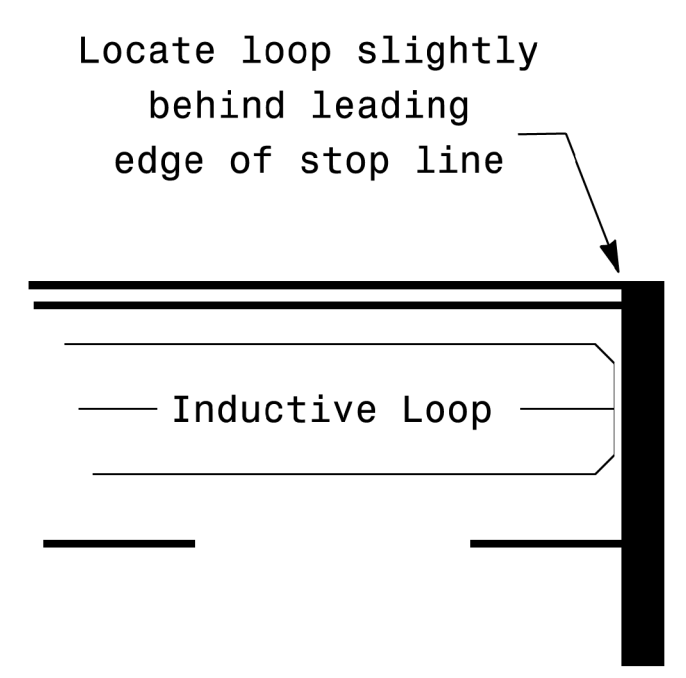
Right Turn Lane Detection

Side Street Detection



L = 6ft X 40ft
 Quadrupole loop
 Wired to separate
 detectors/channels

Presence Loop Placement at Stop Lines



- Note:
 Loop may be located in advance
 of stop line under any of the
 following conditions:
- 1) stop line is greater than 15' from edge of intersecting roadway
 - 2) loop detects a permissive or protected/permissive left turn
 - 3) for an exclusive right turn lane

Recommended Number of Turns

Single 6' X 6' loop
 (when wired separately):

Length of Lead-in ft	Number of Turns
< 250	3
250-375	4
375-525	5
> 525	6

Quadrupole loops: Use 2-4-2 turns

6' X 15' Loops:
 Lead-in < 150', use 2 turns
 Lead-in > 150', use 3 turns

	Typical Signal Loop Locations		
	PLAN DATE: January 2015 PREPARED BY: PLA	REVIEWED BY: JPG REVIEWED BY:	
750 N. Greenfield Pkwy, Garner, NC 27529		REVISIONS:	INIT. DATE:
DATE:		DATE:	DATE:
SIG. INVENTORY NO.		1/30/2015	

9/26/2017 4:10:00 PM Z:\Raleigh\Production\Division-6\ESC\Division-1\Task3-US17_Resurfacing\Roadway\MAP-1_PERQUIMANS\100_1_DA00374_PDY_TSH_KEY SHEET_PERQUIMANS.dgn
 USER: TKU

CONTRACT NO.: DA00374 WBS ELEMENT: 2018CPT.01.05.10721.1

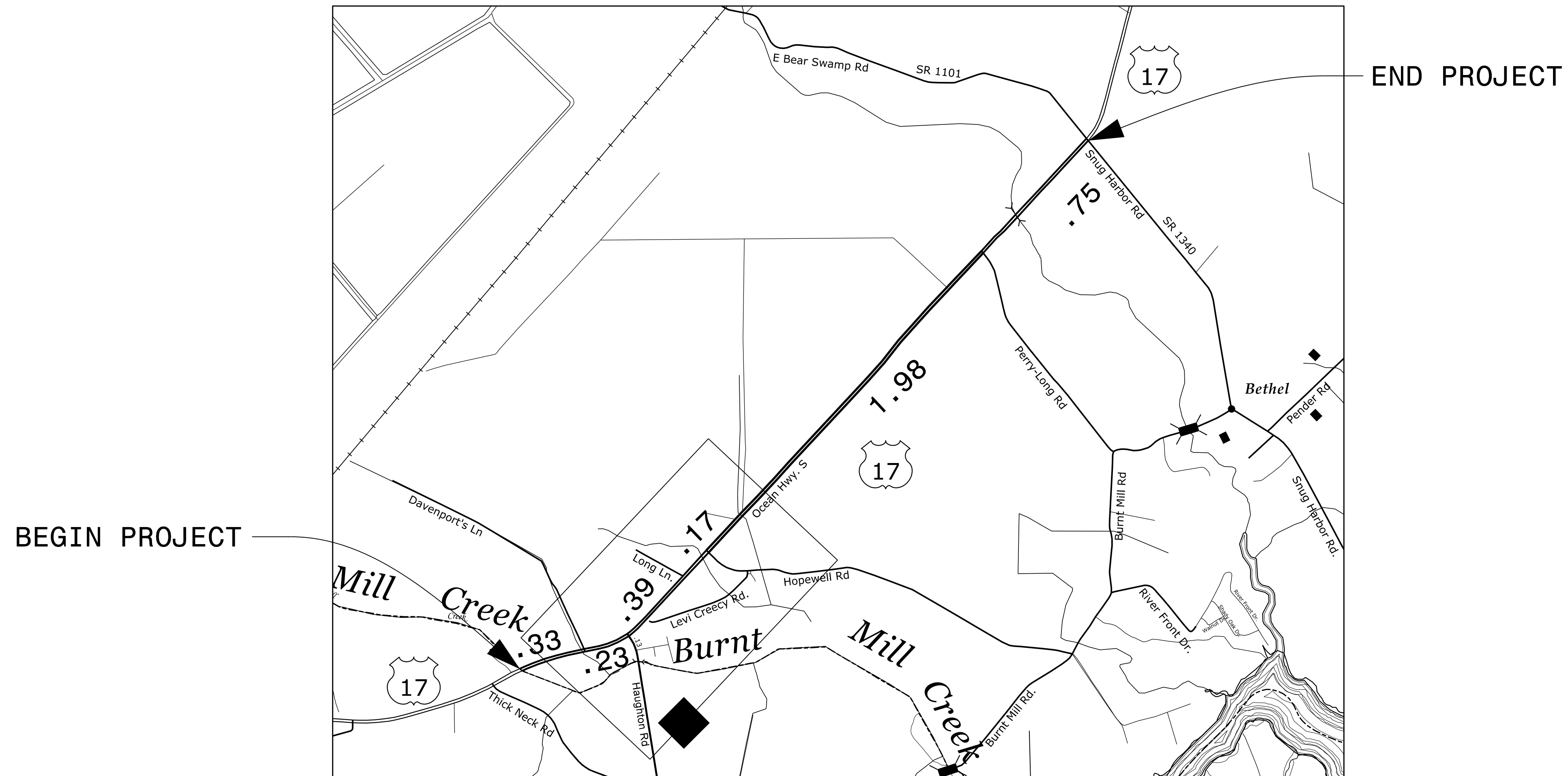
STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

PERQUIMANS COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	2018CPT.01.05.10721.1	1	1
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

LOCATION: US 17 FROM CHOWAN COUNTY LINE TO SR 1101 (E. BEAR SWAMP RD.)/SR 1340 (SNUG HARBOR RD.)

TYPE OF WORK: MILLING, RESURFACING, SHOULDER RECONSTRUCTION & PAVEMENT MARKINGS



NTS

PROJECT LENGTH

LENGTH OF ROADWAY PROJECT = 3.75 MI.



NC FIRM LICENSE No: C-1506
 4800 Six Forks Rd.,
 Suite 120
 Raleigh, NC 27609
 (919)882-7839

Prepared for the Office of:
DIVISION OF HIGHWAYS
 113 Airport Dr., Edenton NC, 27032

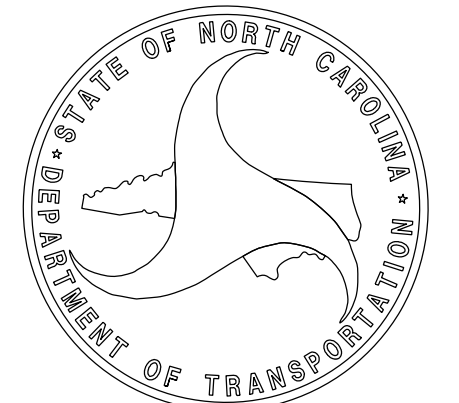
2012 STANDARD SPECIFICATIONS

LETTING DATE:

W. B. HOBBS, PE
 DIVISION PROJECT MANAGER

C. E. SLACHTA
 DIVISION PROPOSALS ENGINEER

DIVISION OF HIGHWAYS
 STATE OF NORTH CAROLINA



SHEET NUMBER	INDEX OF SHEETS SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
2A-1	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
2B-1	ROADWAY DETAILS
3B-1	SUMMARY OF QUANTITIES
TMP-1	TRANSPORTATION MANAGEMENT PLANS

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 6 - ASPHALT BASES AND PAVEMENTS 654.01	PAVEMENT REPAIRS
DIVISION 7 - CONCRETE PAVEMENTS AND SHOULDERS 700.05	TYING PROPOSED PAVEMENT TO EXISTING

GENERAL NOTES:

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

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.

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	⊙ EIP
Computed Property Corner	⊗
Property Monument	⊠ ECM
Parcel/Sequence Number	Ⓜ 123
Existing Fence Line	---x---x---x---
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	⊠
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	---WLB---
Proposed Wetland Boundary	---WLB---
Existing Endangered Animal Boundary	---EAB---
Existing Endangered Plant Boundary	---EPB---
Existing Historic Property Boundary	---HPB---
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	⊙ W
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	---FDW---
False Sump	⊠

RAILROADS:

Standard Gauge	-----
RR Signal Milepost	⊙ MILEPOST 35
Switch	⊠ 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 Easment Pin and Cap	◇
New Permanent Easment 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 R/W Marker	▲ Ⓜ
New Control of Access Line with Concrete C/A Marker	Ⓜ Ⓜ
Existing Control of Access	Ⓜ
New Control of Access	Ⓜ
Existing Easement Line	---E---
New Temporary Construction Easement	---E---
New Temporary Drainage Easement	---TDE---
New Permanent Drainage Easement	---PDE---
New Permanent Drainage / Utility Easement	---DUE---
New Permanent Utility Easement	---PUE---
New Temporary Utility Easement	---TUE---
New Aerial Utility Easement	---AUE---

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	---C---
Proposed Slope Stakes Fill	---F---
Proposed Curb Ramp	Ⓜ
Existing Metal Guardrail	---T---
Proposed Guardrail	---T---
Existing Cable Guiderail	---T---
Proposed Cable Guiderail	---T---
Equality Symbol	⊠
Pavement Removal	⊠

VEGETATION:

Single Tree	⊙
Single Shrub	⊙

Hedge	~~~~~
Woods Line	~~~~~
Orchard	⊙ ⊙ ⊙ ⊙
Vineyard	⊠ Vineyard

EXISTING STRUCTURES:

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

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.*)	---P---
U/G Power Line LOS C (S.U.E.*)	---P---
U/G Power Line LOS D (S.U.E.*)	---P---

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.*)	---T---
U/G Telephone Cable LOS C (S.U.E.*)	---T---
U/G Telephone Cable LOS D (S.U.E.*)	---T---
U/G Telephone Conduit LOS B (S.U.E.*)	---TC---
U/G Telephone Conduit LOS C (S.U.E.*)	---TC---
U/G Telephone Conduit LOS D (S.U.E.*)	---TC---
U/G Fiber Optics Cable LOS B (S.U.E.*)	---T FO---
U/G Fiber Optics Cable LOS C (S.U.E.*)	---T FO---
U/G Fiber Optics Cable LOS D (S.U.E.*)	---T FO---

WATER:

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

TV:

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

GAS:

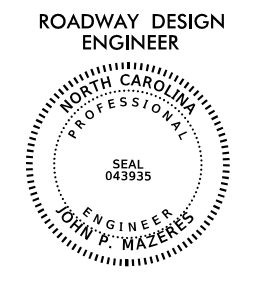
Gas Valve	◇
Gas Meter	◇
U/G Gas Line LOS B (S.U.E.*)	---G---
U/G Gas Line LOS C (S.U.E.*)	---G---
U/G Gas Line LOS D (S.U.E.*)	---G---
Above Ground Gas Line	---A/G Gas---

SANITARY SEWER:

Sanitary Sewer Manhole	⊙
Sanitary Sewer Cleanout	⊙
U/G Sanitary Sewer Line	---SS---
Above Ground Sanitary Sewer	---A/G Sanitary Sewer---
SS Forced Main Line LOS B (S.U.E.*)	---FSS---
SS Forced Main Line LOS C (S.U.E.*)	---FSS---
SS Forced Main Line LOS D (S.U.E.*)	---FSS---

MISCELLANEOUS:

Utility Pole	●
Utility Pole with Base	⊠
Utility Located Object	○
Utility Traffic Signal Box	⊠
Utility Unknown U/G Line LOS B (S.U.E.*)	---TU---
U/G Tank; Water, Gas, Oil	⊠
Underground Storage Tank, Approx. Loc.	⊠ UST
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.

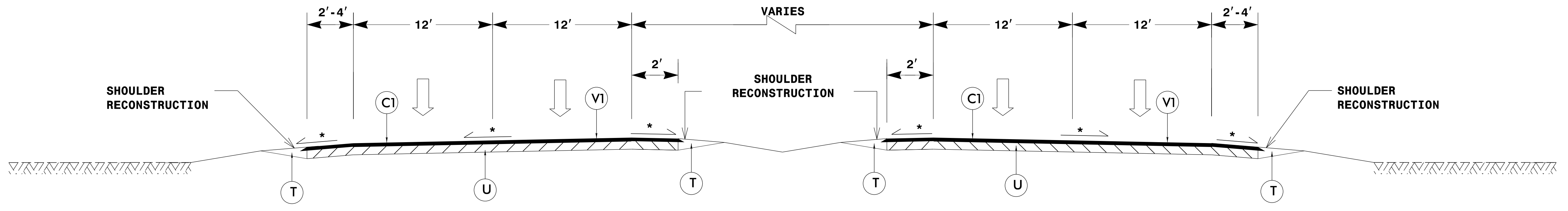


**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

PAVEMENT SCHEDULE	
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" DEPTH.
U	EXISTING PAVEMENT.
T	EARTH MATERIAL

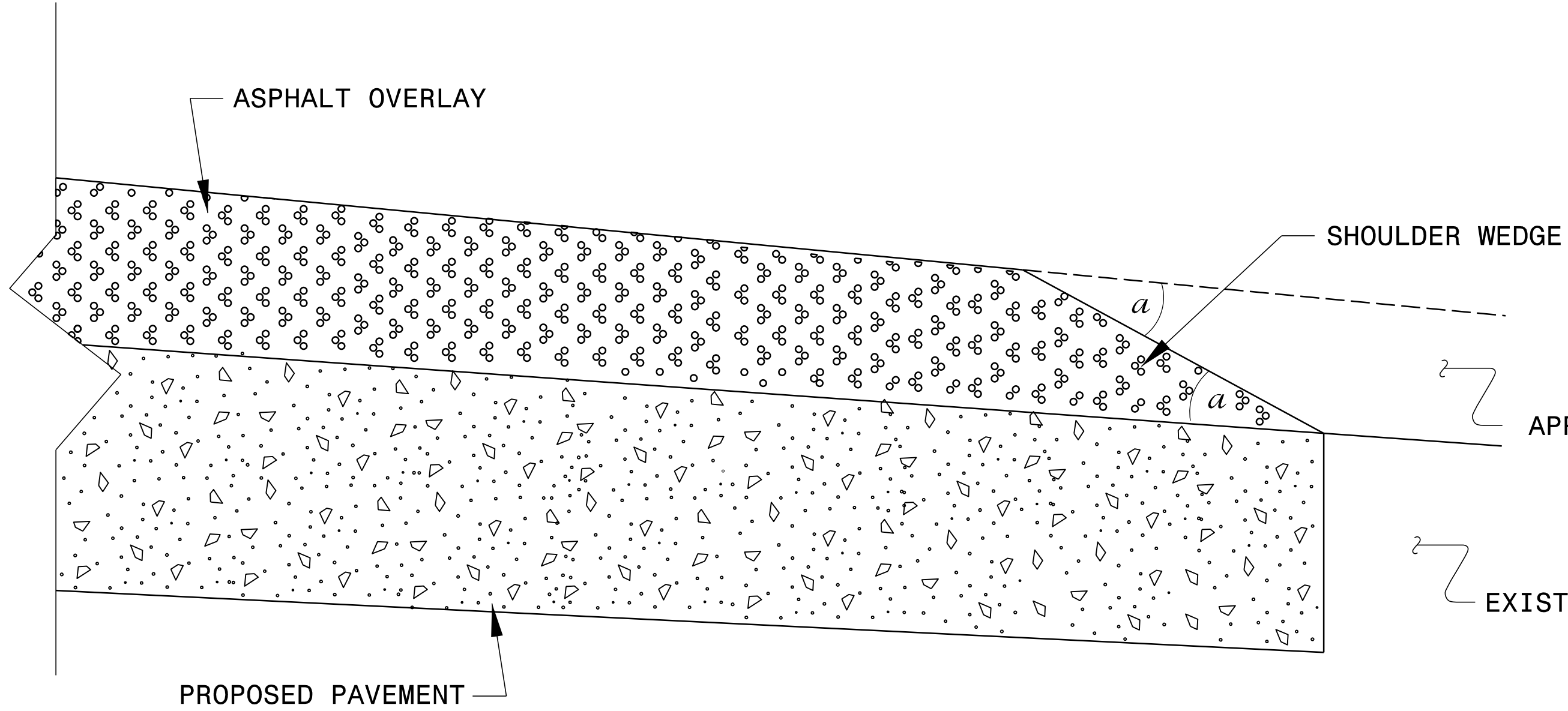
NOTES:

1. ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII., OR AS DIRECTED BY THE ENGINEER.
2. EDGES, PAVEMENT WIDENING, INTERSECTIONS, AND BRIDGE FLARES ARE INCLUDED IN THE SUMMARY OF QUANTITIES.
3. CONTRACTOR SHALL MILL 1.5" BELOW EXISTING PAVEMENT.
4. PAVEMENT WIDTH VARIES BASED ON SHOULDER WIDTH.
5. * MATCH EXISTING CROSS SLOPE.



TYPICAL SECTION #1

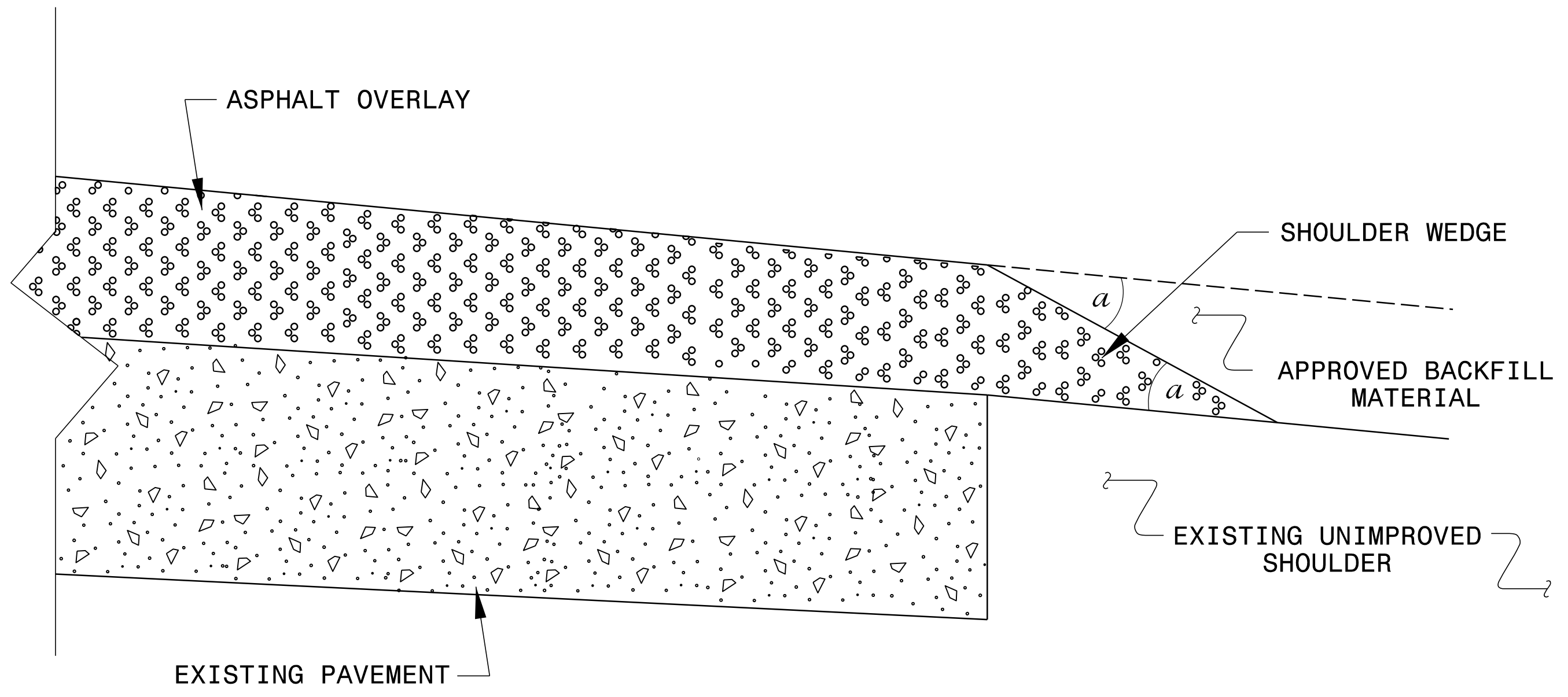
5/28/99
 9/25/2017
 2:15 PM
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 USER: jtki



- NOTES:**
- 1) DETAIL DOES NOT APPLY TO OGAFCC 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.

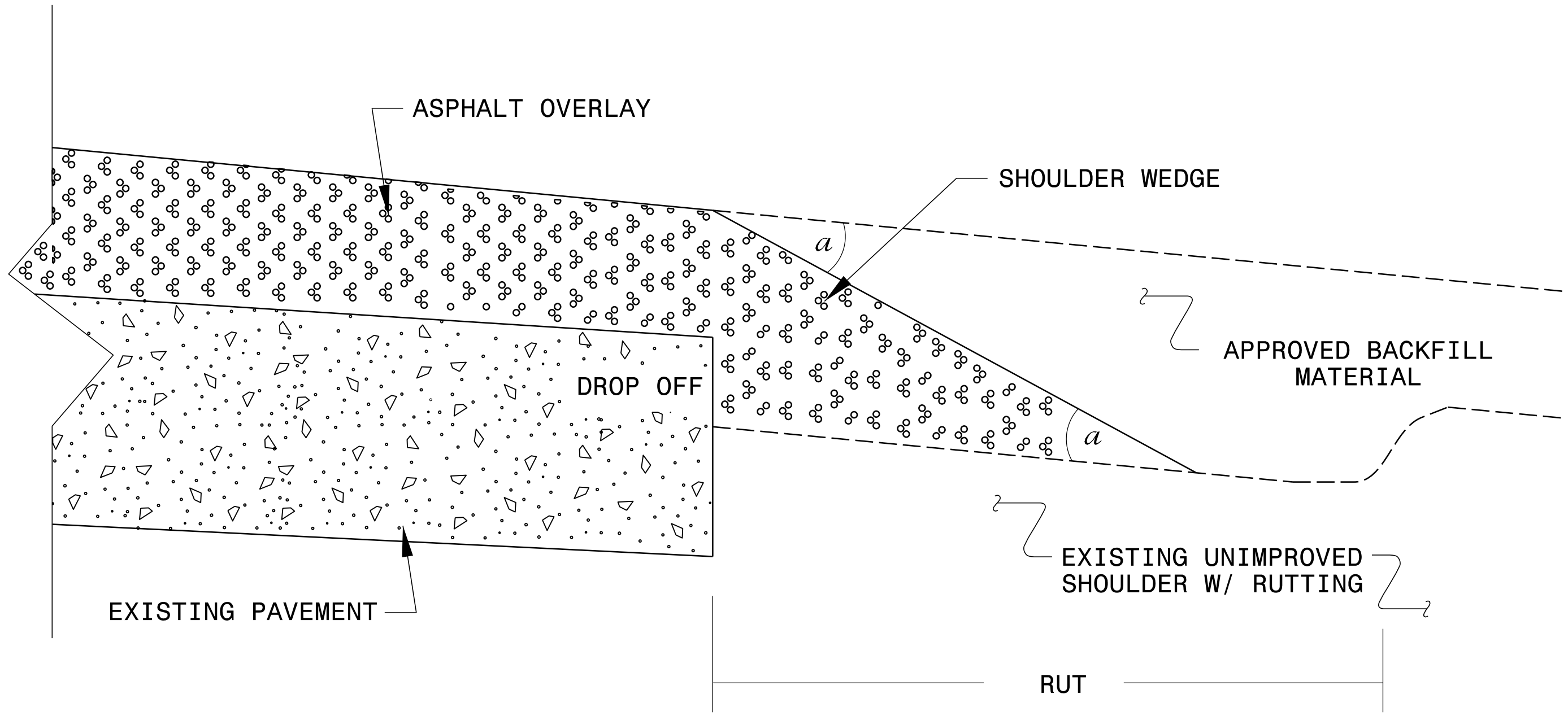
SHOULDER WEDGE DETAIL

(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	

SUMMARY OF QUANTITIES

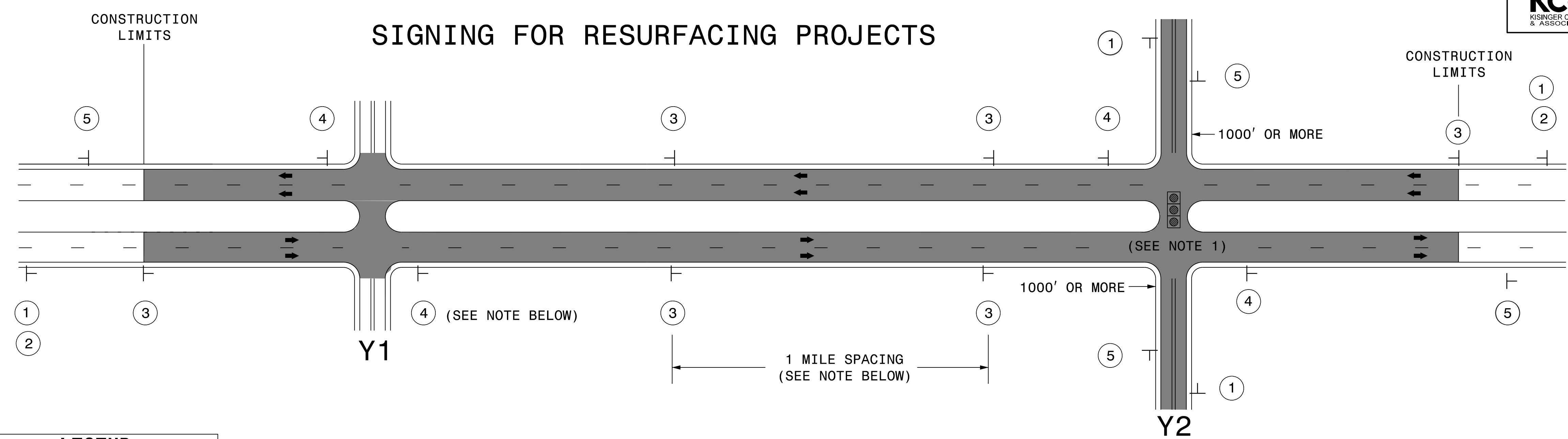
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	MATERIAL TRANSFER VEHICLE REQUIRED	LENGTH MI	WIDTH FT	MOBILIZATION LS	1 1/2" MILLING SY	SURFACE COURSE, 59.5B TONS	TEMPORARY TRAFFIC CONTROL LS	WORK ZONE SIGNS (STATIONARY) SF	ASPHALT BINDER FOR PLANT MIX TONS	BORROW EXCAVATION CY	SHOULDER RECONSTRUCTION SMI	SEEDING AND MULCHING ACR	
2018CPT.01.05.10721.1	Perquimans	1	US 17 NB	FROM CHOWAN COUNTY LINE TO DAVENPORTS LN	1	2	MD	NO	NO	YES	0.33	29	1	7,138	538	1	339	32	66	0.66	0.32	
2018CPT.01.05.10721.1	Perquimans	1	US 17 NB	FROM DAVENPORTS LN TO US 37	1	2	MD	NO	NO	YES	0.23	29	*	6,522	440	*	*	26	46	0.46	0.22	
2018CPT.01.05.10721.1	Perquimans	1	US 17 NB	FROM US 37 TO HOPEWELL RD	1	2	MD	NO	NO	YES	0.56	29	*	13,142	951	*	*	57	112	1.12	0.54	
2018CPT.01.05.10721.1	Perquimans	1	US 17 NB	FROM HOPEWELL RD TO PERRY-LONG RD	1	2	MD	NO	NO	YES	1.98	29	*	41,618	3,188	*	*	191	396	3.96	1.92	
2018CPT.01.05.10721.1	Perquimans	1	US 17 NB	FROM PERRY-LONG RD TO SNUG HARBOR RD	1	2	MD	NO	NO	YES	0.75	29	*	16,500	1,234	*	*	74	150	1.50	0.73	
2018CPT.01.05.10721.1	Perquimans	1	US 17 SB	FROM E BEAR SWAMP TO PERRY-LONG RD	1	2	MD	NO	NO	YES	0.33	29	*	8,154	2,949	*	*	177	66	0.66	0.32	
2018CPT.01.05.10721.1	Perquimans	1	US 17 SB	FROM PERRY-LONG RD TO HOPEWELL RD	1	2	MD	NO	NO	YES	0.23	29	*	5,315	863	*	*	52	46	0.46	0.22	
2018CPT.01.05.10721.1	Perquimans	1	US 17 SB	FROM HOPEWELL RD TO US 37	1	2	MD	NO	NO	YES	0.56	29	*	13,594	975	*	*	59	112	1.12	0.54	
2018CPT.01.05.10721.1	Perquimans	1	US 17 SB	FROM US 37 TO DAVENPORTS LN	1	2	MD	NO	NO	YES	1.98	29	*	40,188	3,115	*	*	187	396	3.96	1.92	
2018CPT.01.05.10721.1	Perquimans	1	US 17 SB	FROM DAVENPORTS LN TO CHOWAN COUNTY LINE	1	2	MD	NO	NO	YES	0.75	29	*	14,847	1,164	*	*	70	150	1.50	0.73	
GRAND TOTAL				MAIN LINE								7.70		1	167,020	15,420	1	339	930	1,540	15	8

THERMOPLASTIC PAVEMENT MARKING LINES QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	LENGTH MI	WIDTH FT	WHITE EDGE LINE (4", 90 MILS) LF	YELLOW EDGE LINE (4", 90 MILS) LF	WHITE LANE LINE (4", 120 MILS) LF	YELLOW LANE LINE (4", 120 MILS) LF	WHITE STOP BAR (24", 120 MILS) LF	THERMO LEFT TURN ARROW (90 MILS) EA	THERMO RIGHT TURN ARROW (90 MILS) EA	THERMO STRAIGHT ARROW (90 MILS) EA	SNOWPLOWABLE CRYSTAL & RED MARKERS EA	SNOWPLOWABLE YELLOW & YELLOW MARKERS EA
2018CPT.01.05.10721.1	Perquimans	1	US 17 NB	FROM CHOWAN COUNTY LINE TO DAVENPORTS LN	1	2	MD	0.33	29	29	1,703	988	161	*	3	1	6	54	1
2018CPT.01.05.10721.1	Perquimans	1	US 17 NB	FROM DAVENPORTS LN TO US 37	1	2	MD	0.23	29	1,153	1,260	804	*	3	*	6	39	4	
2018CPT.01.05.10721.1	Perquimans	1	US 17 NB	FROM US 37 TO HOPEWELL RD	1	2	MD	0.56	29	2,857	2,796	1,924	*	32	6	1	6	92	*
2018CPT.01.05.10721.1	Perquimans	1	US 17 NB	FROM HOPEWELL RD TO PERRY-LONG RD	1	2	MD	1.98	29	10,401	10,124	5,515	*	27	15	2	3	263	*
2018CPT.01.05.10721.1	Perquimans	1	US 17 NB	FROM PERRY-LONG RD TO SNUG HARBOR RD	1	2	MD	0.75	29	3,881	3,841	2,606	20	*	4	1	4	124	1
2018CPT.01.05.10721.1	Perquimans	1	US 17 SB	FROM E BEAR SWAMP TO PERRY-LONG RD	1	2	MD	0.33	29	1,703	1,703	1,165	183	31	3	*	6	62	2
2018CPT.01.05.10721.1	Perquimans	1	US 17 SB	FROM PERRY-LONG RD TO HOPEWELL RD	1	2	MD	0.23	29	1,121	1,135	768	*	*	3	*	6	37	*
2018CPT.01.05.10721.1	Perquimans	1	US 17 SB	FROM HOPEWELL RD TO US 37	1	2	MD	0.56	29	2,863	2,802	1,924	*	32	6	1	6	92	*
2018CPT.01.05.10721.1	Perquimans	1	US 17 SB	FROM US 37 TO DAVENPORTS LN	1	2	MD	1.98	29	10,454	10,106	5,104	*	*	15	*	3	246	*
2018CPT.01.05.10721.1	Perquimans	1	US 17 SB	FROM DAVENPORTS LN TO CHOWAN COUNTY LINE	1	2	MD	0.75	29	3,926	3,831	1,699	*	18	2	*	*	83	*
TOTAL FOR PROJ NO. 2018CPT.01.05.10721.1				MAIN LINE						38,388	39,301	22,497	364	140	60	6	46	1,092	8
GRAND TOTAL				MAIN LINE				7.70		77,689		22,861		140		112		1,100	

PAINT PAVEMENT MARKING LINES QUANTITIES


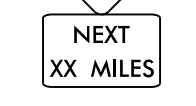
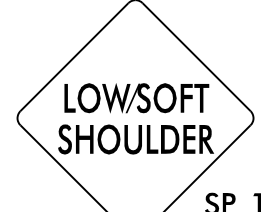
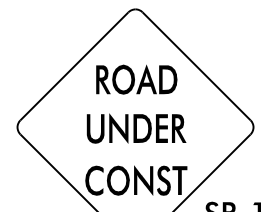
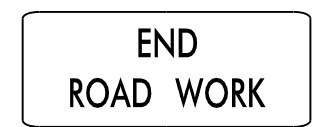
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	LENGTH MI	WIDTH FT	WHITE (4") LF	YELLOW (4") LF	WHITE STOP BAR (24") LF	LEFT TURN ARROW EA	RIGHT TURN ARROW EA	STRAIGHT ARROW EA
2018CPT.01.05.10721.1	Perquimans	1	US 17 NB	FROM CHOWAN COUNTY LINE TO DAVENPORTS LN	1	2	MD	0.33	29	1,017	1,864	*	3	1	6
2018CPT.01.05.10721.1	Perquimans	1	US 17 NB	FROM DAVENPORTS LN TO US 37	1	2	MD	0.23	29	1,957	1,260	*	3	*	6
2018CPT.01.05.10721.1	Perquimans	1	US 17 NB	FROM US 37 TO HOPEWELL RD	1	2	MD	0.56	29	4,781	2,796	32	6	1	6
2018CPT.01.05.10721.1	Perquimans	1	US 17 NB	FROM HOPEWELL RD TO PERRY-LONG RD	1	2	MD	1.98	29	15,916	10,124	27	15	2	3
2018CPT.01.05.10721.1	Perquimans	1	US 17 NB	FROM PERRY-LONG RD TO SNUG HARBOR RD	1	2	MD	0.75	29	6,487	3,861	*	4	1	4
2018CPT.01.05.10721.1	Perquimans	1	US 17 SB	FROM E BEAR SWAMP TO PERRY-LONG RD	1	2	MD	0.33	29	2,868	1,886	31	3	*	6
2018CPT.01.05.10721.1	Perquimans	1	US 17 SB	FROM PERRY-LONG RD TO HOPEWELL RD	1	2	MD	0.23	29	1,889	1,135	*	3	*	6
2018CPT.01.05.10721.1	Perquimans	1	US 17 SB	FROM HOPEWELL RD TO US 37	1	2	MD	0.56	29	4,787	2,802	32	6	1	6
2018CPT.01.05.10721.1	Perquimans	1	US 17 SB	FROM US 37 TO DAVENPORTS LN	1	2	MD	1.98	29	15,558	10,106	*	15	*	3
2018CPT.01.05.10721.1	Perquimans	1	US 17 SB	FROM DAVENPORTS LN TO CHOWAN COUNTY LINE	1	2	MD	0.75	29	5,625	3,831	18	2	*	*
TOTAL FOR PROJ NO. 2018CPT.01.05.10721.1				MAIN LINE						60,885	39,665	140	60	6	46
GRAND TOTAL				MAIN LINE				7.70		100,550		140		112	



LEGEND
 | STATIONARY SIGN
 ← DIRECTION OF TRAFFIC FLOW

MAINLINE (-L-) SIGNING


-Y- LINE SIGNING


SIGNING NOTES AND PLACEMENT PER DIRECTION	①	 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	 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	 SP 13107 48" X 48"	PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER. IF NO -Y- LINES EXIST, PLACE 2ND SET 1/2 MILE FROM THE CONSTRUCTION LIMITS AND THEN SPACE 1 MILE THEREAFTER.
	④	 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.
	⑤	 G20-2 A 48" X 24"	PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.

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.



 W20-1
 48" X 48"


 W20-7 A
 48" X 48"

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

NOTES:

- 1) MAY USE LAW ENFORCEMENT TO CONTROL TRAFFIC AT SIGNALIZED INTERSECTIONS AS DIRECTED BY THE ENGINEER. PROVIDE PORTABLE "ROAD WORK AHEAD" (W20-1) SIGNS 500' IN ADVANCE ALONG BOTH APPROACHES FROM THE SIDE STREETS WHEN PAVING PROCEEDS THROUGH THE INTERSECTION.



**RESURFACING
 ADVANCE WARNING SIGNS
 FOR RURAL AND SUBURBAN
 MULTI-LANE ROADWAYS
 W/ SHOULDER SECTIONS**

5/28/99
 9/26/2017
 2:15 PM
 C:\p\production\Division-GESC\Division-1\Task3-US17_Resurfacing\Roadway\Map-1_PEROUIMANS\2001_1_0A00374_TMP_SIGNING_PLACEMENT_PEROUIMANS.dgn
 USER:tkl