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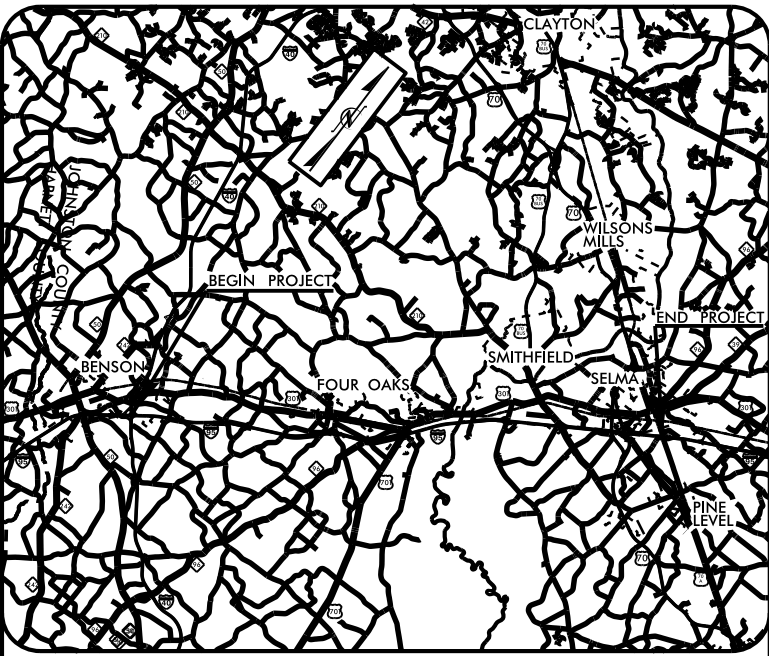
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03/08/19

**TIP PROJECT: I-6043**

**CONTRACT: DD00298**



**VICINITY MAP**

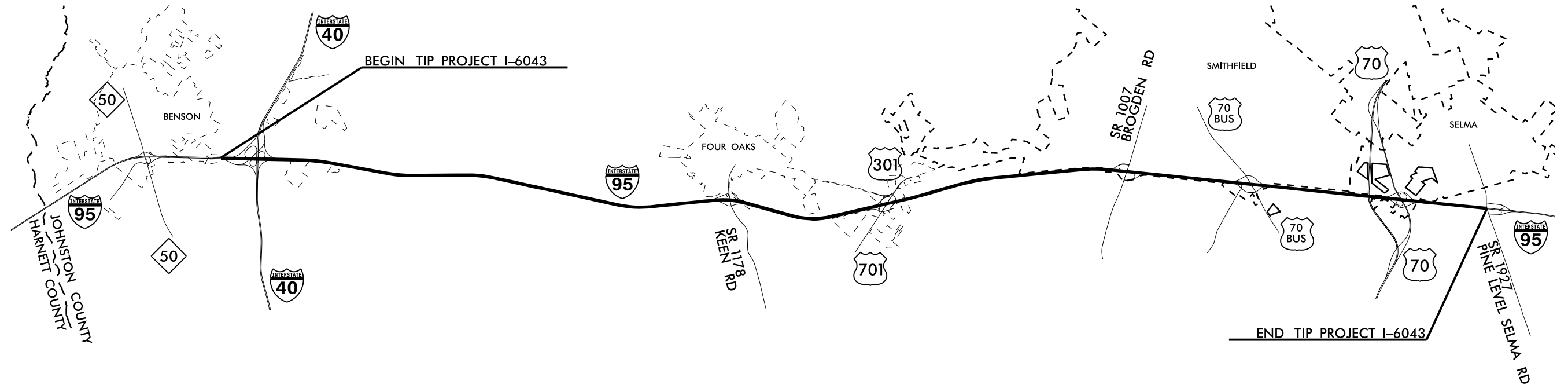
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**JOHNSTON COUNTY**

**LOCATION: I-95 FROM HARNETT COUNTY LINE TO SR 1927  
(PINE LEVEL SELMA ROAD)**

**TYPE OF WORK: DRAINAGE & GUARDRAIL**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-6043	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
47992.1.1	NHPIM-0095(054)	PE	
47992.3.1	NHPIM-0095(054)	CONST	



25-JAN-2019 16:27  
D:\PROJECTS\I-6043-DDC4-TSH.dgn  
USER:RSM

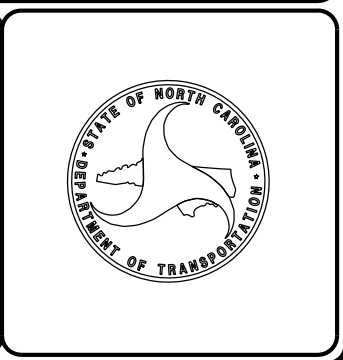
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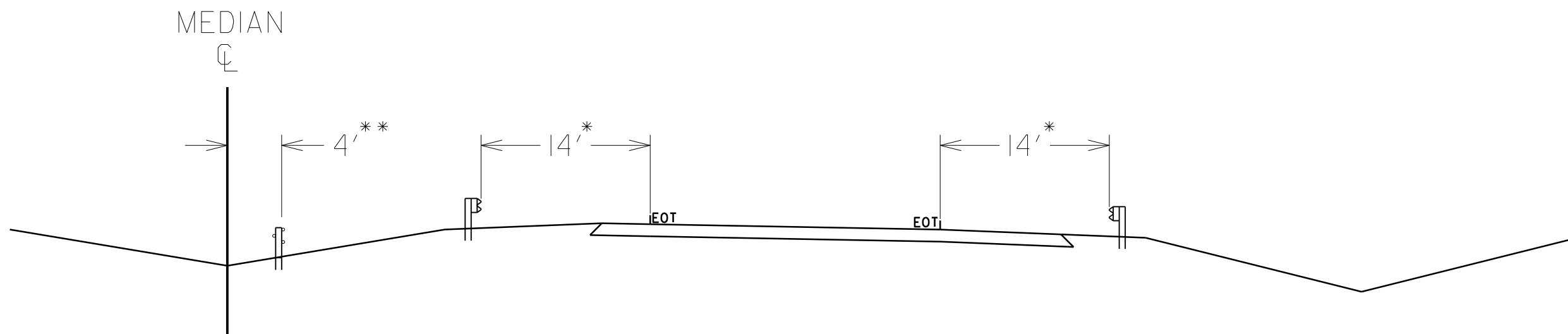
<b>DESIGN DATA</b>
ADT 2016 = 45,000
V = 70 MPH
FUNC CLASS = INTERSTATE

<b>PROJECT LENGTH</b>
LENGTH ROADWAY TIP PROJECT I-6043 SBL = 17.00 MI
LENGTH ROADWAY TIP PROJECT I-6043 NBL = 17.00 MI

Prepared In the Office of: <b>DIVISION OF HIGHWAYS</b> DIVISION 4 DDC 509 Ward Blvd., Wilson NC, 27895	
2018 STANDARD SPECIFICATIONS	
RIGHT OF WAY DATE: N/A	R.L. KEETER, PE PROJECT ENGINEER
LETTING DATE: MARCH 12, 2019	N.A. GAINY, PE PROJECT DESIGN ENGINEER

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## GUARDRAIL/CABLE GUIDERAIL DETAIL

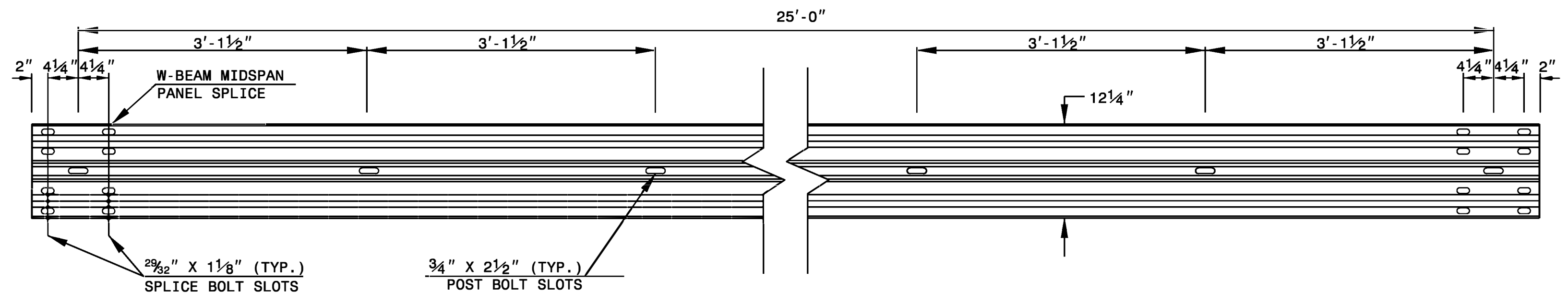
SEE SUMMARY OF QUANTITIES FOR GUIDERAIL  
AND GUARDRAIL LOCATIONS

- \* IF 14' OFFSET FROM EDGE OF TRAVEL IS NOT FEASIBLE  
PLACE GUARDRAIL AS DIRECTED BY THE ENGINEER
- \*\* PLACE DOUBLE FACED CABLE GUIDERAIL PER THE ROADWAY STANDARD  
DRAWINGS AND AS DIRECTED BY THE ENGINEER

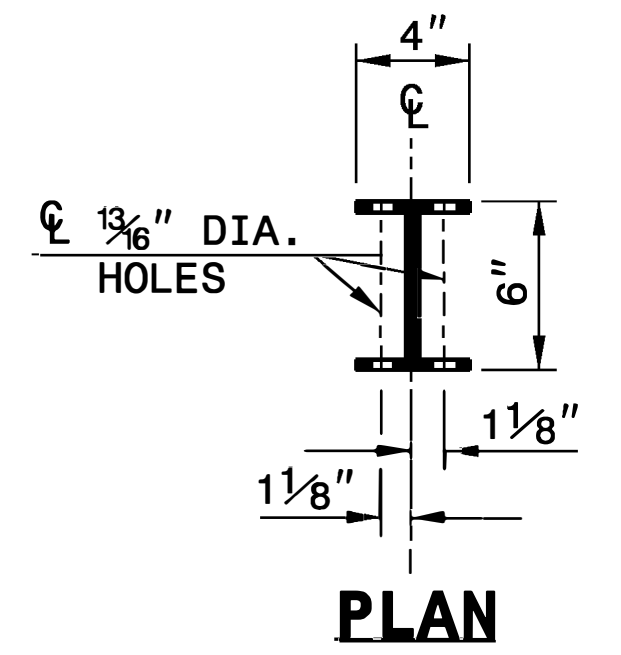
STATE OF NORTH CAROLINA  
 DEPT. OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR  
**GUARDRAIL INSTALLATION**

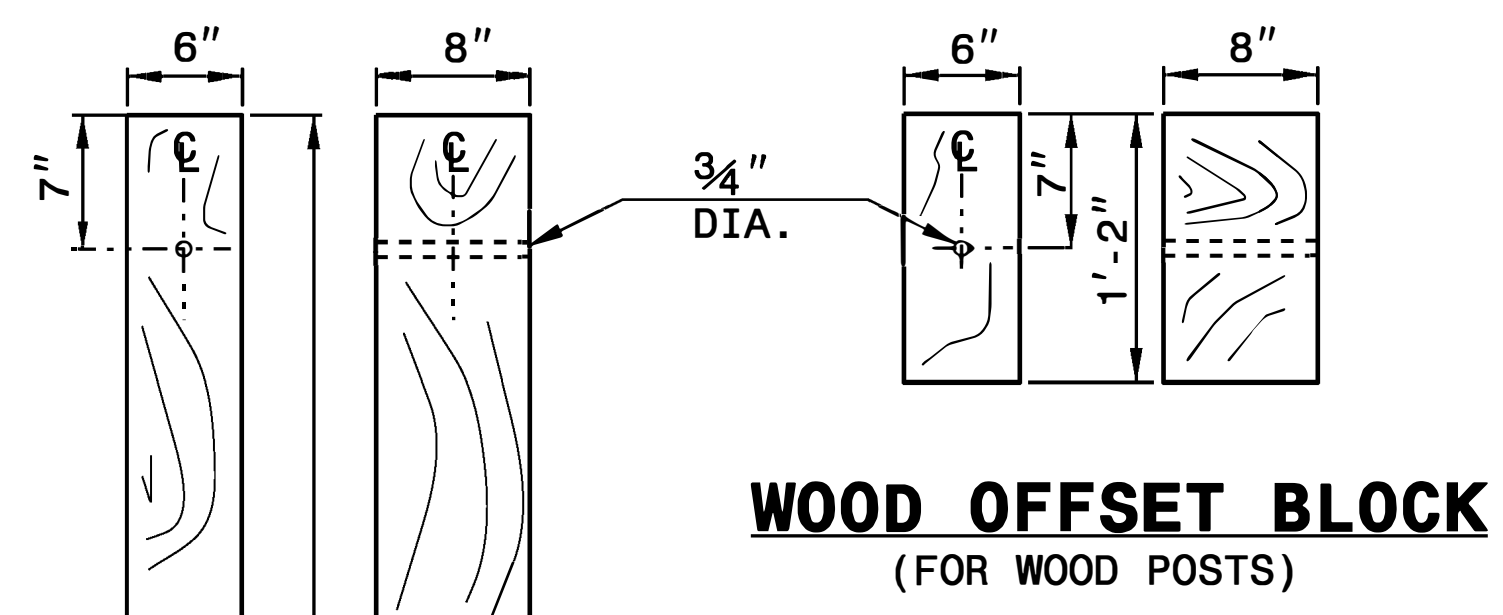
SHEET 6 OF 8  
**862D02**



**STANDARD W-BEAM GUARDRAIL**



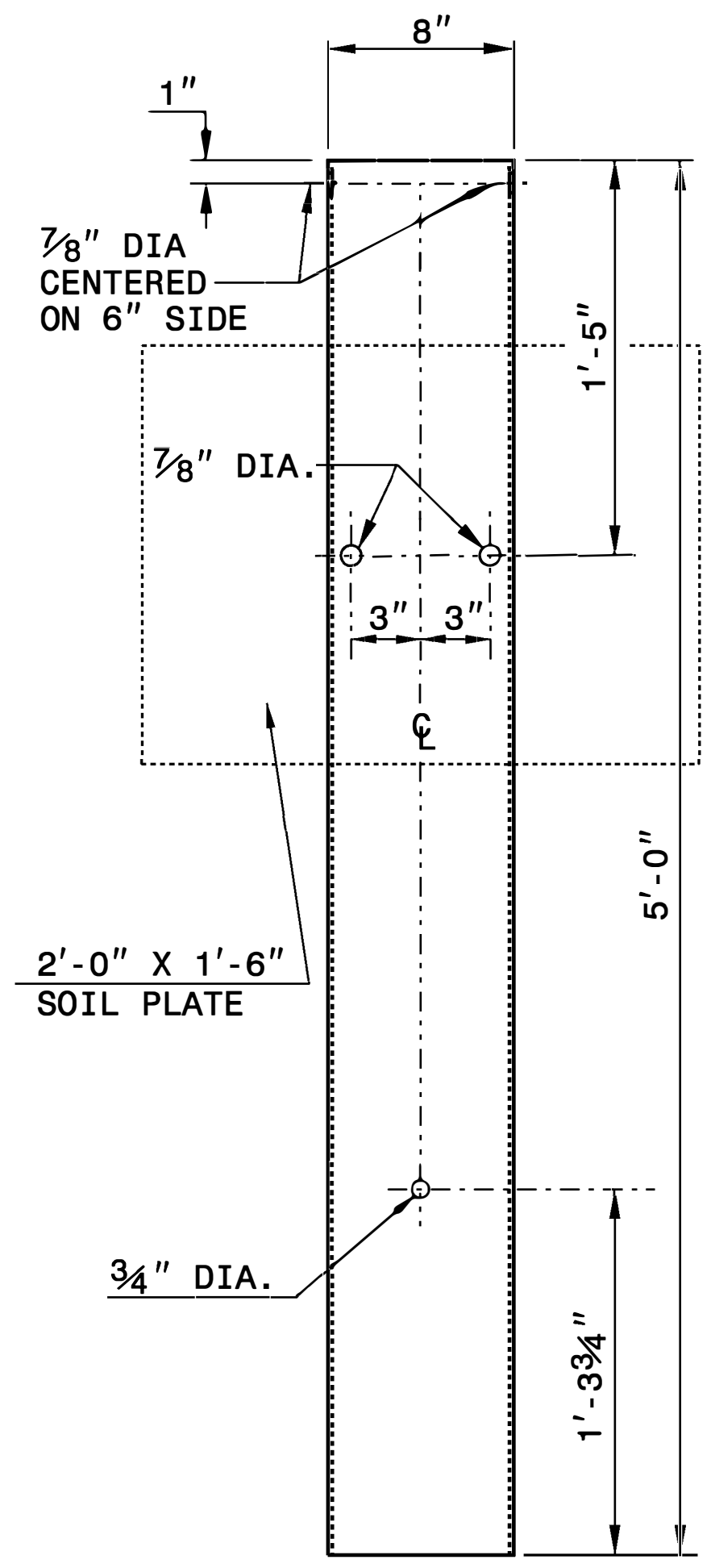
**PLAN**



**WOOD OFFSET BLOCK  
(FOR WOOD POSTS)**

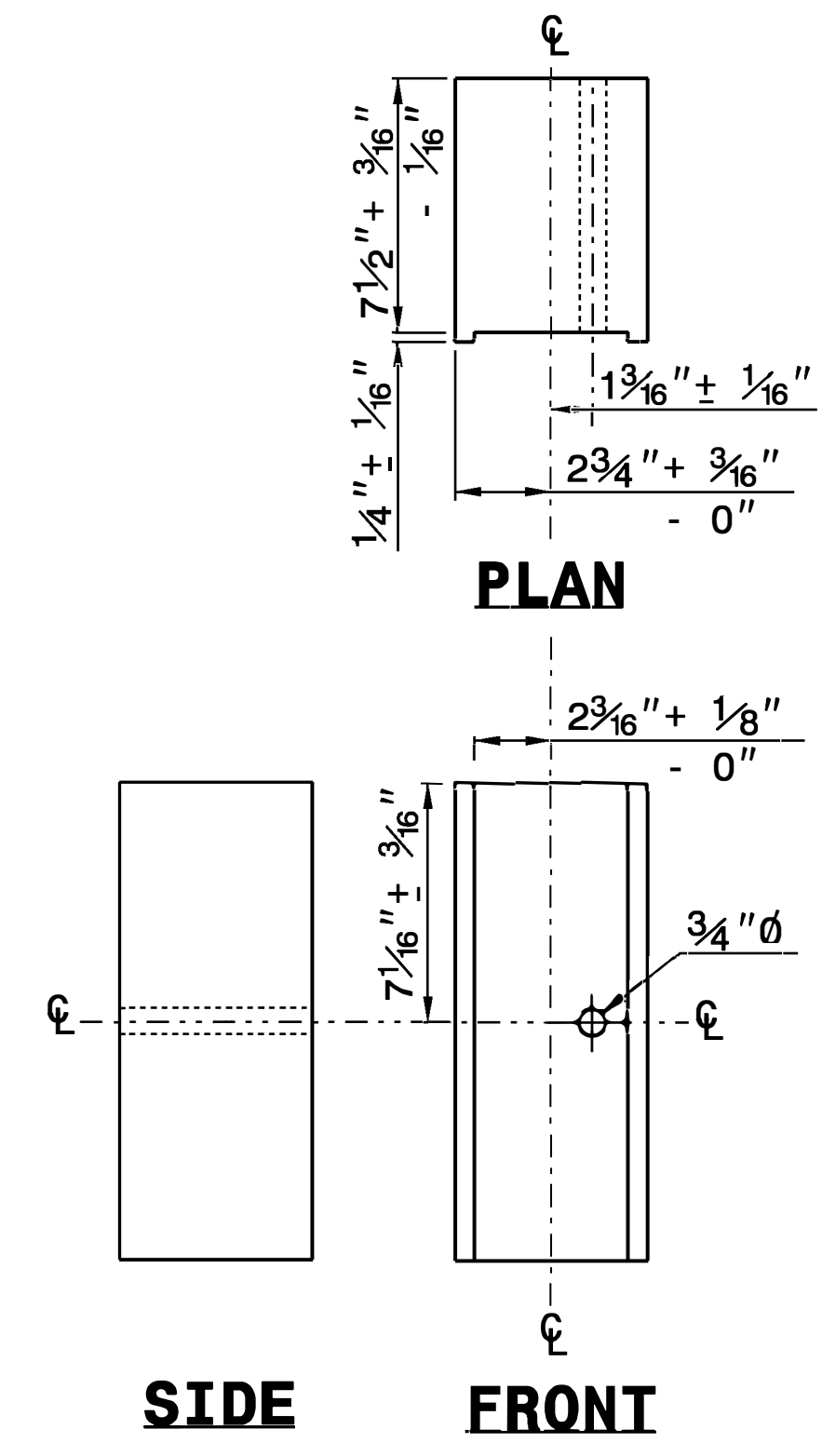
**STANDARD  
LINE POST**

**SHORT WOOD  
BREAKAWAY POST**



**STEEL TUBE  
TS 6"x8"x0.1875"**

**SYSTEM PARTS**

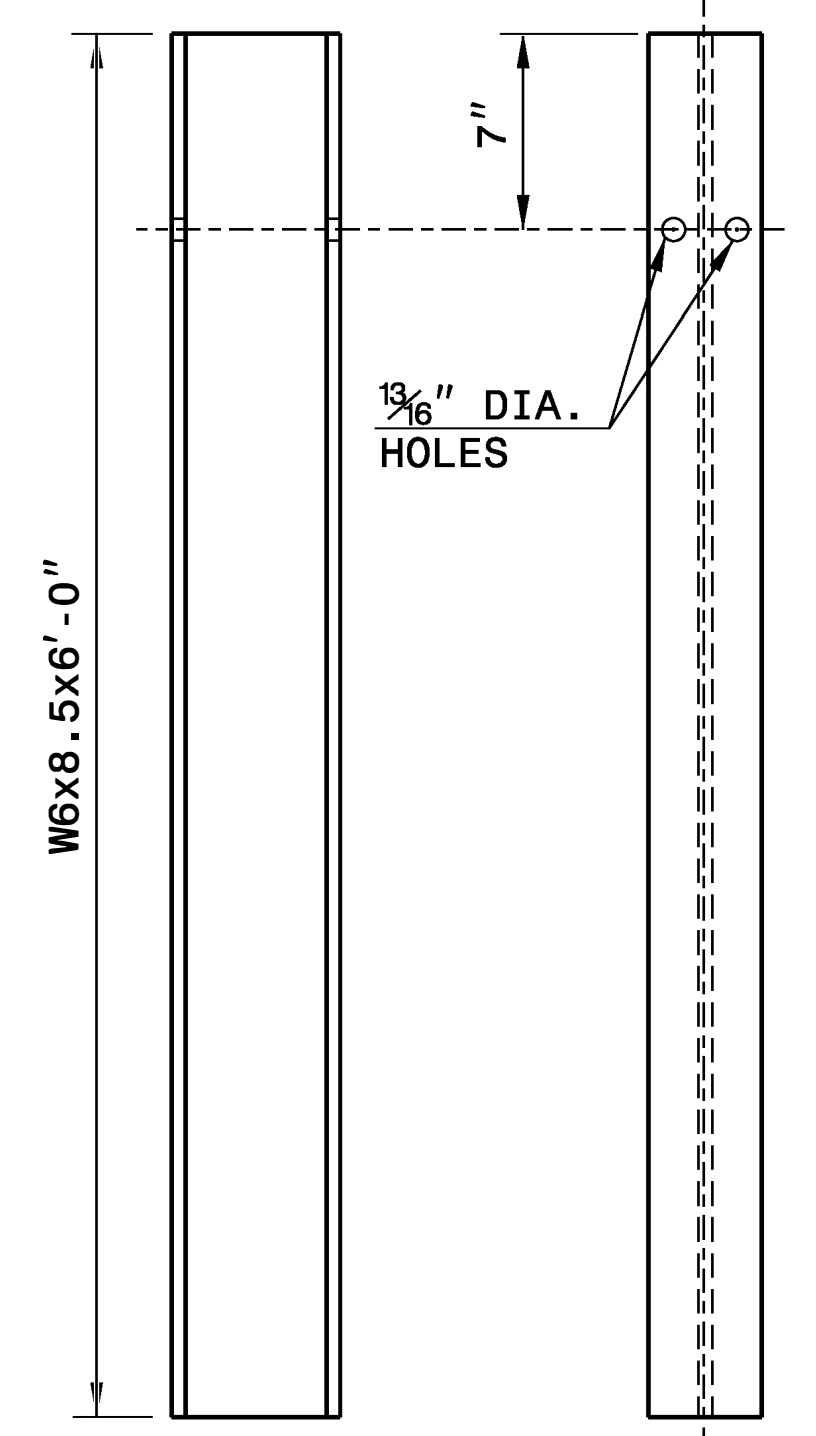


**PLAN**

**SIDE**

**FRONT**

**ROUTED  
OFFSET BLOCK**



**SIDE**

**FRONT**

**"W6" STEEL POST**

STATE OF NORTH CAROLINA  
 DEPT. OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR  
**GUARDRAIL INSTALLATION**

SHEET 6 OF 8  
**862D02**

1/30/2019



DocuSigned by:  
 Joel S. Howerton  
 873F3D17DCDC45F

**CONTRACTS STANDARDS  
 AND DEVELOPMENT UNIT**  
 Office 919-707-6950 FAX 919-250-4119

**SEE TITLE BLOCK**

ORIGINAL BY: J. HOWERTON	DATE: 3-7-2018
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC.:	



I4-DEC-2017 10:36 S:\Contracts\Projects\Special Details\Standard Drawings\Division 8\0862d0301.dgn Jhowerton AT\_CSD-292595

STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR  
**STRUCTURE ANCHOR UNITS**  
GUARDRAIL ANCHOR UNIT, TYPE III  
FOR ATTACHMENT TO RAIL ON BRIDGE

SHEET 1 OF 7  
**862D03**

SHEET 1 OF 7  
**862D03**

**ELEVATION**

**PLAN VIEW**

**GUARDRAIL ANCHOR UNIT, TYPE III  
FOR ATTACHMENT TO RAIL ON BRIDGE**

STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR  
**STRUCTURE ANCHOR UNITS**  
GUARDRAIL ANCHOR UNIT, TYPE III FOR ATTACHMENT TO  
RAIL ON BRIDGE - SUB REGIONAL TIER

SHEET 2 OF 7  
**862D03**

SHEET 2 OF 7  
**862D03**

**ELEVATION**

**PLAN VIEW**

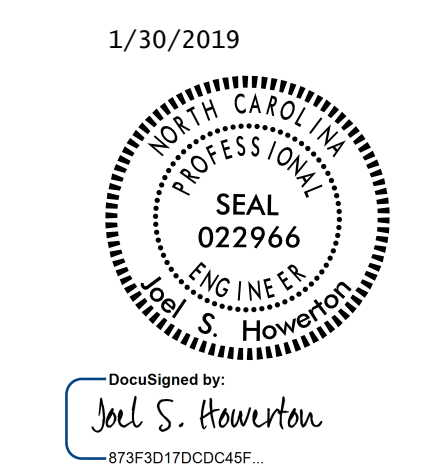
**GUARDRAIL ANCHOR UNIT, TYPE III FOR ATTACHMENT TO  
RAIL ON BRIDGE - SUB REGIONAL TIER**

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

**CONTRACT STANDARDS  
AND DEVELOPMENT UNIT**  
Office 919-707-6950 FAX 919-250-4119

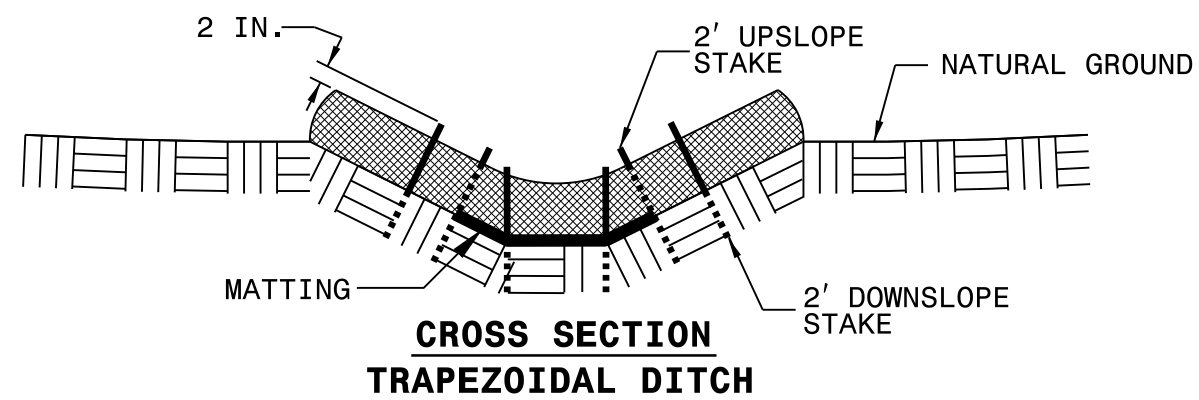
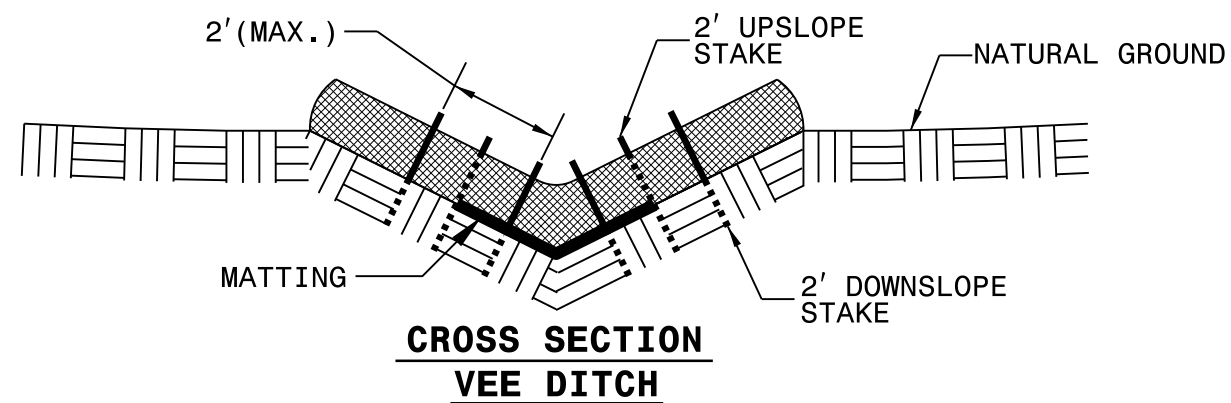
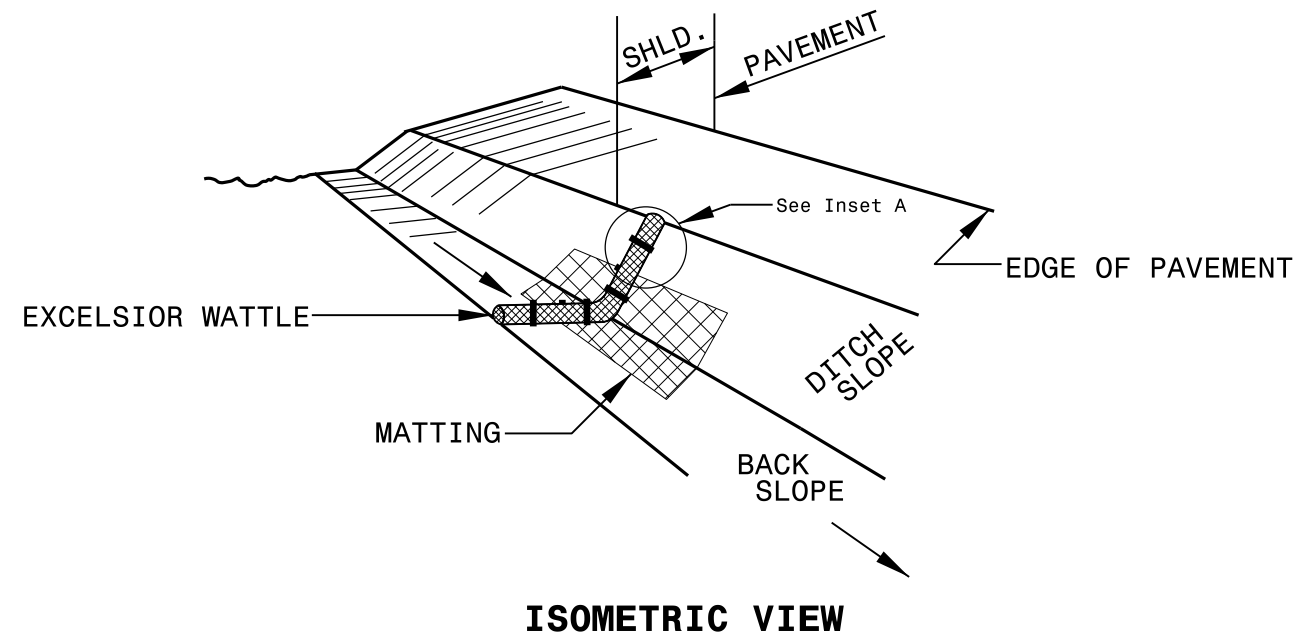
SEE TITLE BLOCK

ORIGINAL BY: J HOWERTON	DATE: 06-22-12
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC.:	



1/30/2019

# WATTLE DETAIL



**NOTES:**

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

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

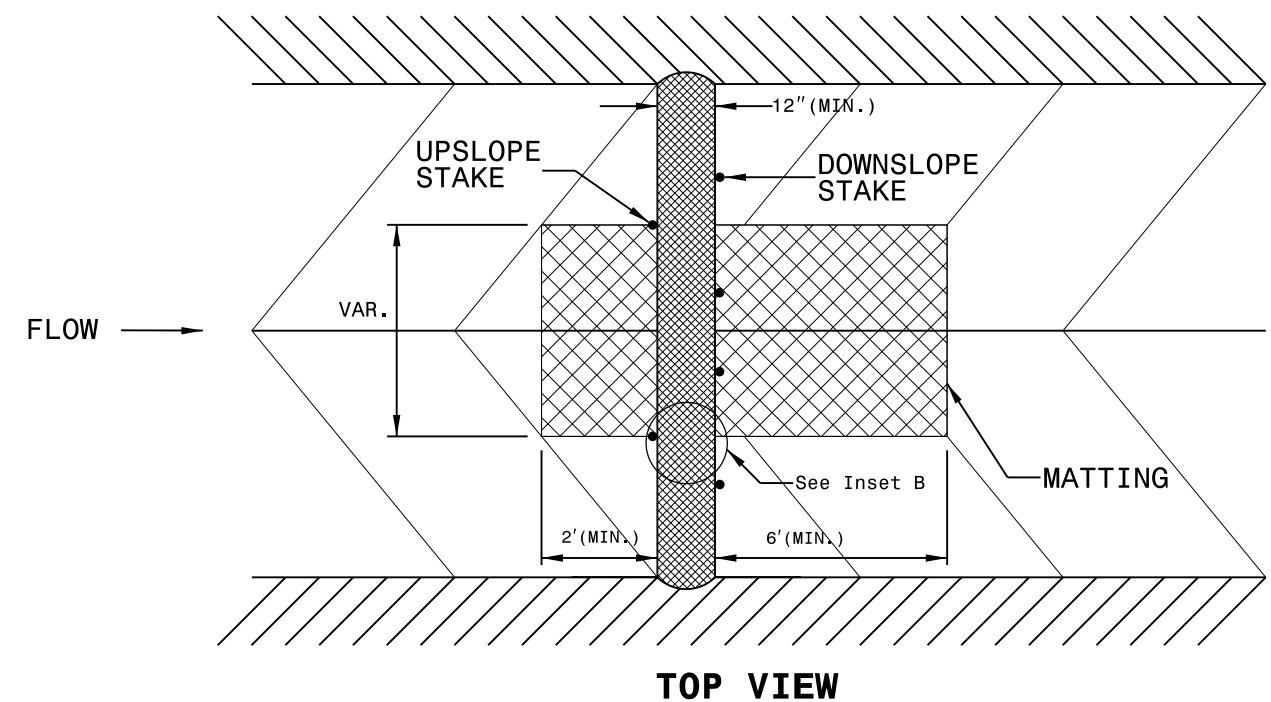
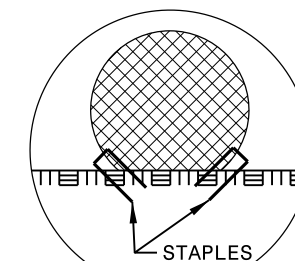
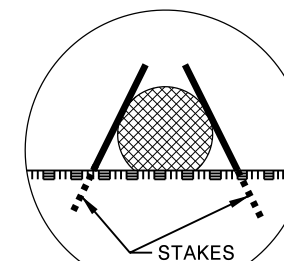
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

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.

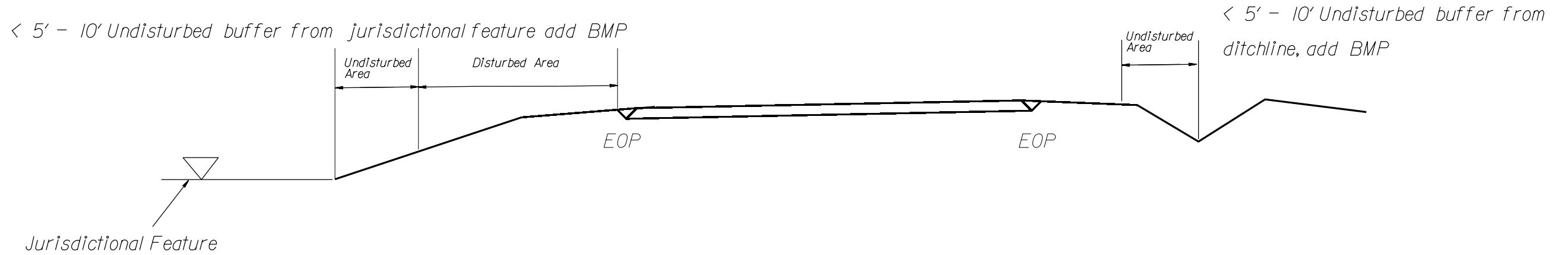
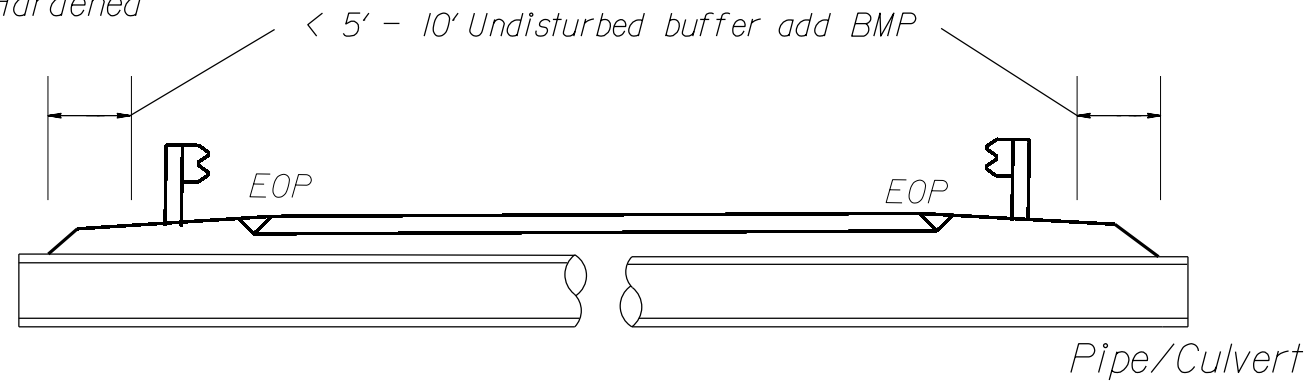
INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.



NOTES: Less than 5' - 10' undisturbed buffer from ROW, ditchline, water feature, or drainage inlet, add BMP.

BMP Options: Wattle, Silt Fence or Hardened Aggregate.

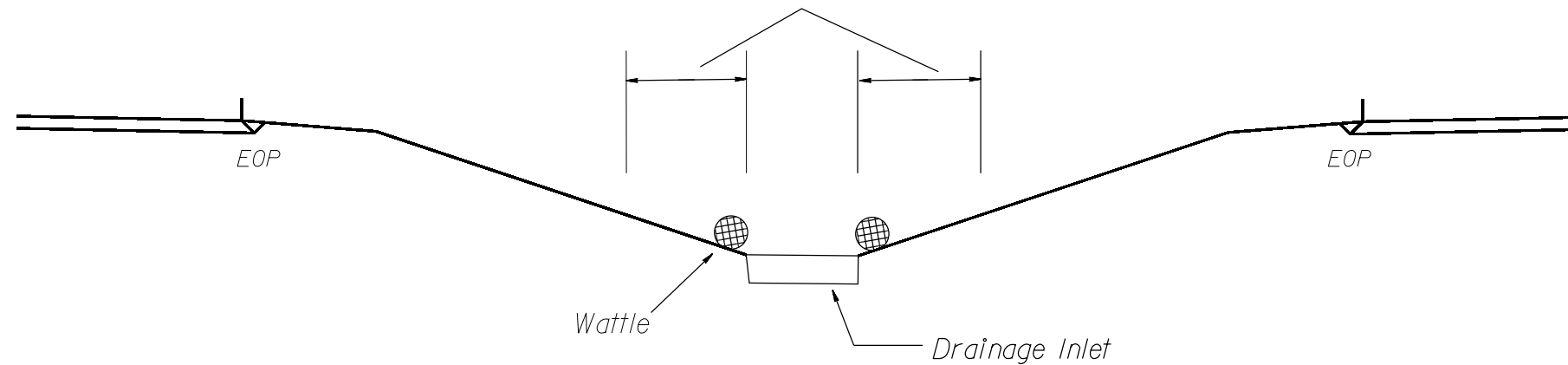
# EROSION CONTROL DETAIL



Use BMP's if shoulders and/or frontslopes and/or ditchline and/or backslopes are disturbed



< 5' - 10' Undisturbed buffer from inlet, add wattle



NOT TO SCALE

### SUMMARY OF QUANTITIES

PROJECT NUMBER	COUNTY	BOX NUMBER	ROUTE	LONG	LAT	DESCRIPTION	UNCLASSIFIED EXCAVATION	BORROW EXCAVATION	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES	FOUNDATION CONDITIONING GEOTEXTILE	15" RC PIPE CULVERTS, CLASS III	18" RC PIPE CULVERTS, CLASS III	24" RC PIPE CULVERTS, CLASS III	30" RC PIPE CULVERTS, CLASS III	PIPE REMOVAL	INCIDENTAL STONE BASE	PIPE COLLARS	FLOWABLE FILL		
							CY 0022000000-E	CY 0106000000-E	TON 0318000000-E	SY 0320000000-E	LF 0366000000-E	LF 0372000000-E	LF 0378000000-E	LF 0384000000-E	LF 0995000000-E	TON 1220000000-E	CY 2253000000-E	CY 2275000000-E		
I-6043	JOHNSTON	1	I-95 CL	-78.524	35.386	REPLACE DRAINAGE STRUCTURE		3	4	11	16				16		0.399	8		
		2	I-95 CL	-78.522	35.387	REPLACE DRAINAGE STRUCTURE		3	3	8	24					24		1.197	8	
		3	I-95 CL	-78.520	35.389	REPLACE DRAINAGE STRUCTURE		6	2	6	16					16		0.798	16	
		4	I-95 RT	-78.519	35.389	REPLACE CONCRETE APRON		3												8
		5	I-95 CL	-78.517	35.390	REPLACE DRAINAGE STRUCTURE		3	2	6		16				16		0.893	8	
		6	I-95 CL	-78.515	35.391	REPLACE DRAINAGE STRUCTURE		6	2	6					16	16		1.312	16	
		7	I-95 CL	-78.514	35.392	REPLACE DRAINAGE STRUCTURE		8	2	6	16					16		0.798	24	
		8	I-95 CL	-78.513	35.393	REPLACE DRAINAGE STRUCTURE		3	2	6	16					16		0.798	8	
		9	I-95 CL	-78.510	35.395	REPLACE CONCRETE APRON														
		10	I-95 RT	-78.506	35.396	REPLACE PIPE				2	6	16				16		0.798		
		11	I-95 CL	-78.504	35.398	REPLACE DRAINAGE STRUCTURE		6	2	6	16					16		0.798	16	
		12	I-95 CL	-78.500	35.399	REPLACE DRAINAGE STRUCTURE		3	2	6	16					16		0.798	8	
		13	I-95 LT	-78.499	35.400	REPLACE CONCRETE APRON		3												8
		14	I-95 CL	-78.498	35.400	REPLACE DRAINAGE STRUCTURE		3	2	6	16					16		0.798	8	
		15	I-95 CL	-78.497	35.401	REPLACE DRAINAGE STRUCTURE		3	2	6	16					16		0.798	8	
		16	I-95 LT	-78.497	35.401	REPLACE CONCRETE APRON		3												8
		17	I-95 RT	-78.495	35.401	REPLACE DRAINAGE STRUCTURE		3	2	6	16					16		0.798	8	
		18	I-95 CL	-78.495	35.401	REPLACE DRAINAGE STRUCTURE				2	6	16				16		0.798		
		19	I-95 CL	-78.489	35.404	REPLACE DRAINAGE STRUCTURE		3	2	6	16					16		0.798	8	
		20	I-95 CL	-78.483	35.407	REPLACE DRAINAGE STRUCTURE		3	2	6	16					16		0.798	8	
		21	I-95 CL	-78.478	35.411	REPLACE DRAINAGE STRUCTURE		3	2	6	16					16		0.798	8	
		22	I-95 CL	-78.475	35.412	REPLACE DRAINAGE STRUCTURE		3	2	6	16					16		0.798	8	
		23	I-95 RT	-78.475	35.412	REPLACE DRAINAGE STRUCTURE		8	2	6	16					16		0.798	24	
TOTAL								79	41	121	280	16		16	312		15.771	216		
SAY							200	100	45	125	280	16	16	16	400	500	16	250		



### SUMMARY OF QUANTITIES

PROJECT NUMBER	COUNTY	BOX NUMBER	ROUTE	LONG	LAT	DESCRIPTION	MASONRY DRAINAGE STRUCTURES	MASONRY DRAINAGE STRUCTURES	MASONRY DRAINAGE STRUCTURES	FRAME WITH TWO GRATES, STD 840.22	GENERIC DRAINAGE ITEM - CONCRETE APRON	WORK ZONE SIGNS (STATIONARY)	PORTABLE CHANGEABLE MESSAGE SIGN	WORK ZONE PRESENCE LIGHTING	SEQUENTIAL FLASHING WARNING LIGHTS	WORK ZONE DIGITAL SPEED LIMIT SIGNS	LAW ENFORCEMENT	GENERIC TRAFFIC CONTROL ITEM - LANE CLOSURE			
							EA 2286000000-N	CY 2297000000-E	LF 2308000000-E	EA 2365000000-N	EA 2473000000-N	SF 4400000000-E	EA 4420000000-N	EA 4424000000-N	EA 4434000000-N	EA 4423000000-N	HR 4510000000-N	EA 4600000000-N			
I-6043	JOHNSTON	1	I-95 CL	-78.524	35.386	REPLACE DRAINAGE STRUCTURE	1			1											
		2	I-95 CL	-78.522	35.387	REPLACE DRAINAGE STRUCTURE	1			1											
		3	I-95 CL	-78.520	35.389	REPLACE DRAINAGE STRUCTURE	1			1											
		4	I-95 RT	-78.519	35.389	REPLACE CONCRETE APRON						1									
		5	I-95 CL	-78.517	35.390	REPLACE DRAINAGE STRUCTURE	1		1	1											
		6	I-95 CL	-78.515	35.391	REPLACE DRAINAGE STRUCTURE	1		0.5	1											
		7	I-95 CL	-78.514	35.392	REPLACE DRAINAGE STRUCTURE	1			1											
		8	I-95 CL	-78.513	35.393	REPLACE DRAINAGE STRUCTURE	1			1											
		9	I-95 CL	-78.510	35.395	REPLACE CONCRETE APRON						1									
		10	I-95 RT	-78.506	35.396	REPLACE PIPE															
		11	I-95 CL	-78.504	35.398	REPLACE DRAINAGE STRUCTURE	1			1											
		12	I-95 CL	-78.500	35.399	REPLACE DRAINAGE STRUCTURE	1			1											
		13	I-95 LT	-78.499	35.400	REPLACE CONCRETE APRON						1									
		14	I-95 CL	-78.498	35.400	REPLACE DRAINAGE STRUCTURE	1			1											
		15	I-95 CL	-78.497	35.401	REPLACE DRAINAGE STRUCTURE	1			1											
		16	I-95 LT	-78.497	35.401	REPLACE CONCRETE APRON						1									
		17	I-95 RT	-78.495	35.401	REPLACE DRAINAGE STRUCTURE	1			1											
		18	I-95 CL	-78.495	35.401	REPLACE DRAINAGE STRUCTURE	1		1.5	1											
		19	I-95 CL	-78.489	35.404	REPLACE DRAINAGE STRUCTURE	1			1											
		20	I-95 CL	-78.483	35.407	REPLACE DRAINAGE STRUCTURE	1			1											
		21	I-95 CL	-78.478	35.411	REPLACE DRAINAGE STRUCTURE	1			1											
		22	I-95 CL	-78.475	35.412	REPLACE DRAINAGE STRUCTURE	1			1											
		23	I-95 RT	-78.475	35.412	REPLACE DRAINAGE STRUCTURE						1									
TOTAL							17		3	17	5										
SAY							17	10	5	17	5	670	4	15	42	10	900	200			

### SUMMARY OF QUANTITIES

PROJECT NUMBER	COUNTY	BOX NUMBER	ROUTE	LONG	LAT	DESCRIPTION	GENERIC TRAFFIC CONTROL ITEM - RAMP/LOOP CLOSURE	PORTABLE LIGHTING	TEMPORARY SILT FENCE	SEDIMENT CONTROL STONE	1/4" HARDWARE CLOTH	WATTLE								
							EA 4600000000-N	LS 5255000000-N	LF 6000000000-E	TON 6012000000-E	LF 6042000000-E	LF 6071010000-E								
I-6043	JOHNSTON	1	I-95 CL	-78.524	35.386	REPLACE DRAINAGE STRUCTURE				5	40	40								
		2	I-95 CL	-78.522	35.387	REPLACE DRAINAGE STRUCTURE				5	40	40								
		3	I-95 CL	-78.520	35.389	REPLACE DRAINAGE STRUCTURE				5	40	40								
		4	I-95 RT	-78.519	35.389	REPLACE CONCRETE APRON			100	5	40	40								
		5	I-95 CL	-78.517	35.390	REPLACE DRAINAGE STRUCTURE				5	40	40								
		6	I-95 CL	-78.515	35.391	REPLACE DRAINAGE STRUCTURE				5	40	40								
		7	I-95 CL	-78.514	35.392	REPLACE DRAINAGE STRUCTURE				5	40	40								
		8	I-95 CL	-78.513	35.393	REPLACE DRAINAGE STRUCTURE				5	40	40								
		9	I-95 CL	-78.510	35.395	REPLACE CONCRETE APRON				5	40	40								
		10	I-95 RT	-78.506	35.396	REPLACE PIPE			100	5	40	40								
		11	I-95 CL	-78.504	35.398	REPLACE DRAINAGE STRUCTURE				5	40	40								
		12	I-95 CL	-78.500	35.399	REPLACE DRAINAGE STRUCTURE				5	40	40								
		13	I-95 LT	-78.499	35.400	REPLACE CONCRETE APRON			100	5	40	40								
		14	I-95 CL	-78.498	35.400	REPLACE DRAINAGE STRUCTURE				5	40	40								
		15	I-95 CL	-78.497	35.401	REPLACE DRAINAGE STRUCTURE				5	40	40								
		16	I-95 LT	-78.497	35.401	REPLACE CONCRETE APRON			100	5	40	40								
		17	I-95 RT	-78.495	35.401	REPLACE DRAINAGE STRUCTURE			100	5	40	40								
		18	I-95 CL	-78.495	35.401	REPLACE DRAINAGE STRUCTURE				5	40	40								
		19	I-95 CL	-78.489	35.404	REPLACE DRAINAGE STRUCTURE				5	40	40								
		20	I-95 CL	-78.483	35.407	REPLACE DRAINAGE STRUCTURE				5	40	40								
		21	I-95 CL	-78.478	35.411	REPLACE DRAINAGE STRUCTURE				5	40	40								
		22	I-95 CL	-78.475	35.412	REPLACE DRAINAGE STRUCTURE				5	40	40								
		23	I-95 RT	-78.475	35.412	REPLACE DRAINAGE STRUCTURE			100	5	40	40								
		TOTAL					10	1	600	115	920	920								
		SAY					10	1	600	115	920	920								

PROJECT NO.	SHEET NO.	TOTAL NO.
I-6043-47992.3.1	10	

## GUARDRAIL SUMMARY OF QUANTITIES

PROJECT NUMBER	COUNTY	ROUTE	MILE MARKERS		DESCRIPTION	IMPACT ATTENUATOR UNITS, TYPE TL-3	STEEL BEAM GUARDRAIL	ADDITIONAL GUARDRAIL POSTS	GUARDRAIL END UNITS, TYPE CAT-1	GUARDRAIL ANCHOR UNITS, TYPE III	GUARDRAIL END UNITS, TYPE TL-3	REMOVE EXISTING GUARDRAIL	DOUBLE FACED CABLE GUIDERAIL	ADDITIONAL GUIDERAIL POSTS	CABLE GUIDERAIL ANCHOR UNITS
			EA	LF		EA	EA	EA	EA	LF	LF	EA	EA		
			FROM	TO		3001000000-N	3030000000-E	3150000000-N	3210000000-N	3215000000-N	3287000000-N	3360000000-E	3389400000-E	3389500000-N	3389600000-N
		I-95 MED	80.469	80.886	REMOVE EXISTING DOUBLE FACED GUARDRAIL AND END UNITS							2205			
		I-95 MED	80.469	81.016	INSTALL TWO RUNS OF GUARDRAIL	1	5725								
		I-95 RT	80.821	80.846	REMOVE EXISTING GUARDRAIL AND INSTALL NEW GUARDRAIL AND END UNITS		81.25		1		1	137.5			
		I-95 MED	80.860	80.997	REMOVE EXISTING DOUBLE FACED GUARDRAIL AND END UNITS							725			
		I-95 LT	80.911	80.925	REMOVE EXISTING GUARDRAIL AND INSTALL NEW GUARDRAIL AND END UNITS		6.25			1	1	75			
		I-95 RT	80.932	80.958	REMOVE EXISTING GUARDRAIL AND INSTALL NEW GUARDRAIL AND END UNITS		81.25		1		1	137.5			
		I-95 MED	80.957	81.237	REMOVE EXISTING DOUBLE FACED GUARDRAIL AND END UNITS							1480			
		I-95 LT	80.997	81.024	REMOVE EXISTING GUARDRAIL AND INSTALL NEW GUARDRAIL AND END UNITS		93.75		1		1	150			
		I-95 MED	81.020	81.209	INSTALL DOUBLE FACED CABLE GUIDERAIL AND ANCHOR UNITS								1000	6	2
		I-95 MED	81.213	81.259	INSTALL GUARDRAIL AND IMPACT ATTENUATORS AT OVERHEAD SIGN	2	375								
		I-95 LT	81.231	81.243	REMOVE EXISTING GUARDRAIL AND INSTALL NEW GUARDRAIL AND END UNITS		6.25		1		1	62.5			
		I-95 MED	81.235	81.620	REMOVE EXISTING DOUBLE FACED GUARDRAIL AND END UNITS							2035			
		I-95 MED	81.263	81.619	INSTALL DOUBLE FACED CABLE GUIDERAIL AND ANCHOR UNITS								1885	3	2
		I-95 RT	81.359	81.442	REMOVE EXISTING GUARDRAIL AND INSTALL NEW GUARDRAIL AND END UNITS		381.25		1		1	437.5			
		I-95 LT	81.385	81.454	REMOVE EXISTING GUARDRAIL AND INSTALL NEW GUARDRAIL AND END UNITS		306.25		1		1	362.5			
		I-95 MED	81.626	82.177	REMOVE EXISTING DOUBLE FACED GUARDRAIL AND END UNITS							2910			
		I-95 MED	81.627	82.141	INSTALL DOUBLE FACED CABLE GUIDERAIL AND ANCHOR UNITS								2715	3	3
		I-95 RT	81.990	82.163	REMOVE EXISTING GUARDRAIL AND INSTALL NEW GUARDRAIL AND END UNITS		843.75			1	1	912.5			
		I-95 MED	82.145	82.196	INSTALL GUARDRAIL AND IMPACT ATTENUATORS AT BRIDGE	2	450								
		I-95 MED	82.168	82.815	REMOVE EXISTING DOUBLE FACED GUARDRAIL AND END UNITS							3415			
		I-95 LT	82.179	82.238	REMOVE EXISTING GUARDRAIL AND INSTALL NEW GUARDRAIL AND END UNITS		243.75			1	1	312.5			
		I-95 MED	82.200	82.812	INSTALL DOUBLE FACED CABLE GUIDERAIL AND ANCHOR UNITS								3235	3	3
		I-95 LT	82.504	82.540	REMOVE EXISTING GUARDRAIL AND INSTALL NEW GUARDRAIL AND END UNITS		131.25		1		1	187.5			
		I-95 MED	82.818	84.005	REMOVE EXISTING DOUBLE FACED GUARDRAIL AND END UNITS							6270			
		I-95 MED	82.820	84.000	INSTALL DOUBLE FACED CABLE GUIDERAIL AND ANCHOR UNITS								6235		5
		I-95 LT	83.250	83.291	REMOVE EXISTING GUARDRAIL AND INSTALL NEW GUARDRAIL AND END UNITS		156.25		1		1	212.5			
		I-95 RT	83.252	83.293	REMOVE EXISTING GUARDRAIL AND INSTALL NEW GUARDRAIL AND END UNITS		156.25		1		1	212.5			
		I-95 RT	83.883		REMOVE & REPLACE EXISTING END UNIT		50				1	100			
		I-95 LT	84.137		REMOVE & REPLACE EXISTING END UNIT		50				1	100			
		I-95 MED RT	84.500		REMOVE & REPLACE EXISTING END UNIT		50				1	100			
		I-95 RT	84.601		REMOVE & REPLACE EXISTING END UNIT		50				1	100			
		I-95 LT	84.708		REMOVE & REPLACE EXISTING END UNIT		50				1	100			
		I-95 MED LT	84.800		REMOVE & REPLACE EXISTING END UNIT		50				1	100			
		I-95 RT	85.088		REMOVE & REPLACE EXISTING END UNIT		50				1	100			
		I-95 LT	85.272		REMOVE & REPLACE EXISTING END UNIT		50				1	100			
		I-95 MED RT	86.000		REMOVE & REPLACE EXISTING END UNIT		50				1	100			
		I-95 LT	86.688		REMOVE & REPLACE EXISTING END UNIT		50				1	100			
		I-95 RT	87.030		REMOVE & REPLACE EXISTING END UNIT		50				1	100			
		I-95 MED LT	87.100		REMOVE & REPLACE EXISTING END UNIT		50				1	100			
		I-95 LT	87.239		REMOVE & REPLACE EXISTING END UNIT		50				1	100			
		I-95 MED	87.500		REMOVE & REPLACE EXISTING IMPACT ATTENUATOR AT END OF GR	1	100					200			
		I-95 LT	87.843		REMOVE & REPLACE EXISTING END UNIT		50				1	100			
		I-95 RT	88.369		REMOVE & REPLACE EXISTING END UNIT		50				1	100			
		I-95 LT	88.416		REMOVE & REPLACE EXISTING END UNIT		50				1	100			
		I-95 MED RT	88.800		REMOVE & REPLACE EXISTING END UNIT		50				1	100			
		I-95 RT	89.344		REMOVE & REPLACE EXISTING END UNIT		50				1	100			
		I-95 RT	89.686		REMOVE & REPLACE EXISTING END UNIT		50				1	100			
SHEET 10 OF TOTAL						6	10087.5		9	3	31	24340	15070	15	15

### GUARDRAIL SUMMARY OF QUANTITIES

PROJECT NUMBER	COUNTY	ROUTE	MILE MARKERS		DESCRIPTION	IMPACT ATTENUATOR UNITS, TYPE TL-3	STEEL BEAM GUARDRAIL	ADDITIONAL GUARDRAIL POSTS	GUARDRAIL END UNITS, TYPE CAT-1	GUARDRAIL ANCHOR UNITS, TYPE III	GUARDRAIL END UNITS, TYPE TL-3	REMOVE EXISTING GUARDRAIL	DOUBLE FACED CABLE GUIDERAIL	ADDITIONAL GUIDERAIL POSTS	CABLE GUIDERAIL ANCHOR UNITS
			FROM	TO		EA 3001000000-N	LF 3030000000-E	EA 3150000000-N	EA 3210000000-N	EA 3215000000-N	EA 3287000000-N	LF 3360000000-E	LF 3389400000-E	EA 3389500000-N	EA 3389600000-N
I-6043	JOHNSTON	I-95 MED LT	89.700		REMOVE & REPLACE EXISTING END UNIT		50				1	100			
		I-95 LT	89.776		REMOVE & REPLACE EXISTING END UNIT		50				1	100			
		I-95 MED LT	89.900		REMOVE & REPLACE EXISTING END UNIT		50				1	100			
		I-95 RT	90.032		REMOVE & REPLACE EXISTING END UNIT		50				1	100			
		I-95 RT	90.427		REMOVE & REPLACE EXISTING END UNIT		50				1	100			
		I-95 MED LT	90.558		REMOVE & REPLACE EXISTING END UNIT		50				1	100			
		I-95 LT	90.582		REMOVE & REPLACE EXISTING END UNIT		50				1	100			
		I-95 MED LT	90.600		REMOVE & REPLACE EXISTING END UNIT		50				1	100			
		I-95 MED RT	91.300		REMOVE & REPLACE EXISTING END UNIT		50				1	100			
		I-95 RT	91.333		REMOVE & REPLACE EXISTING END UNIT		50				1	100			
		I-95 MED LT	91.700		REMOVE & REPLACE EXISTING END UNIT		50				1	100			
		I-95 LT	91.717		REMOVE & REPLACE EXISTING END UNIT		50				1	100			
		I-95 MED RT	92.400		REMOVE & REPLACE EXISTING END UNIT		50				1	100			
		I-95 MED LT	92.800		REMOVE & REPLACE EXISTING END UNIT		50				1	100			
		I-95 MED RT	92.900		REMOVE & REPLACE EXISTING END UNIT		50				1	100			
		I-95 RT	93.006		REMOVE & REPLACE EXISTING END UNIT		50				1	100			
		I-95 MED LT	93.200		REMOVE & REPLACE EXISTING END UNIT		50				1	100			
		I-95 MED LT	94.000		REMOVE & REPLACE EXISTING END UNIT		50				1	100			
		I-95 MED RT	94.500		REMOVE & REPLACE EXISTING END UNIT		50				1	100			
		I-95 MED LT	94.900		REMOVE & REPLACE EXISTING END UNIT		50				1	100			
I-95 MED RT	95.500		REMOVE & REPLACE EXISTING END UNIT		50				1	100					
I-95 MED RT	96.200		REMOVE & REPLACE EXISTING END UNIT		50				1	100					
I-95 MED LT	96.800		REMOVE & REPLACE EXISTING END UNIT		50				1	100					
SHEET 11 OF TOTAL							1150				23	2300			
SHEET 10 OF TOTAL						6	10087.5		9	3	31	24340	15070	15	15
<b>GRAND TOTAL</b>						<b>6</b>	<b>11237.5</b>	<b>20</b>	<b>9</b>	<b>3</b>	<b>54</b>	<b>26640</b>	<b>15070</b>	<b>15</b>	<b>15</b>
<b>SAY</b>						<b>6</b>	<b>11300</b>	<b>20</b>	<b>9</b>	<b>3</b>	<b>54</b>	<b>26700</b>	<b>15100</b>	<b>15</b>	<b>15</b>