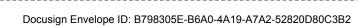
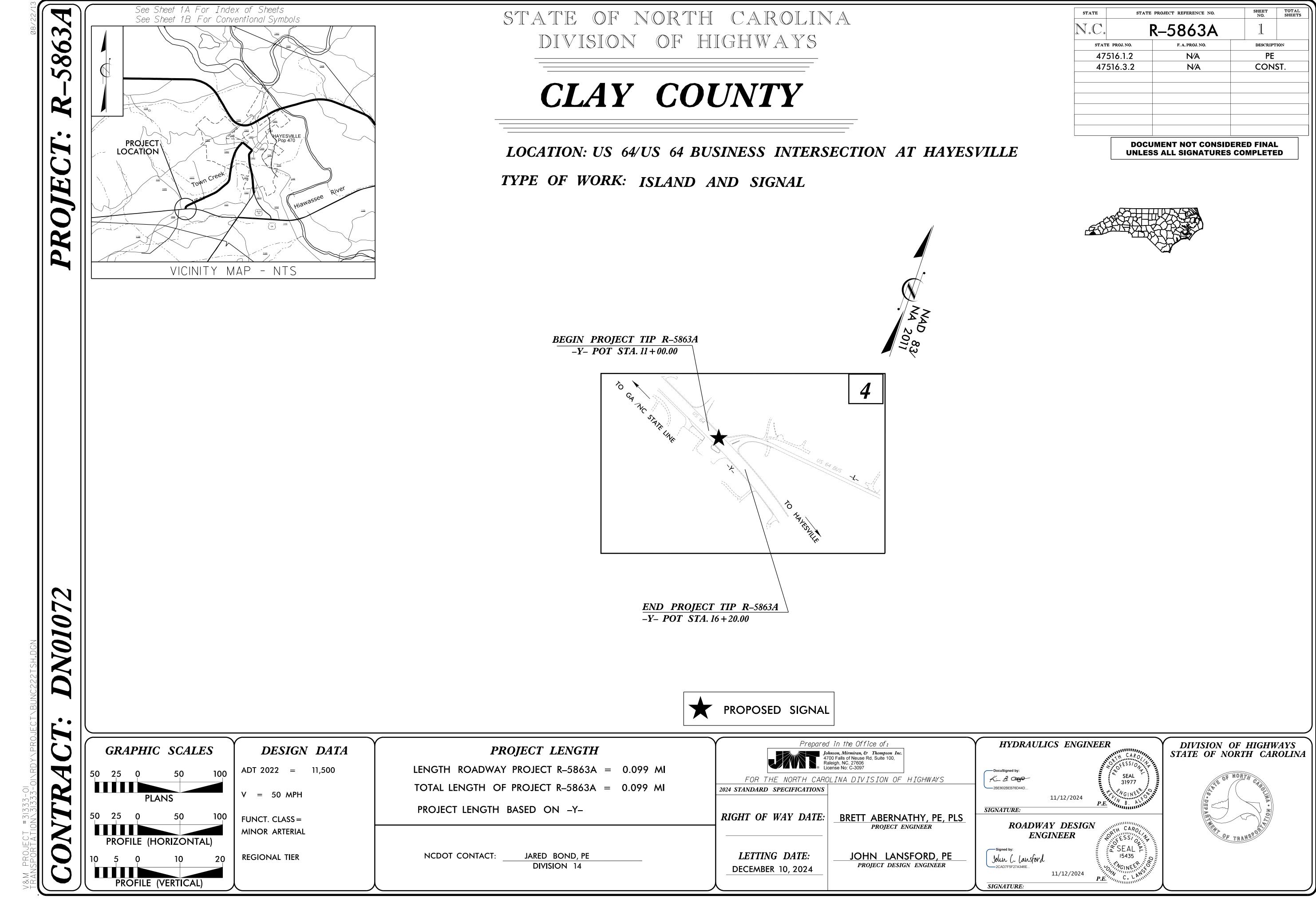
# This electronic collection of documents is provided for the convenience of the user and is Not a Certified Document -

The documents contained herein were originally issued and sealed by the individuals whose names and license numbers appear on each page, on the dates appearing with their signature on that page. This file or an individual page shall not be considered a certified document.





STATE	STATE	PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
$\mathbb{N}.\mathbb{C}.$		R-5863A	1	
	E PROJ. NO.	F. A. PROJ. NO.	DESCRIPT	ION
	516.1.2	N/A	PE	
47	516.3.2	N/A	CON	ST.
		JMENT NOT CONSID SS ALL SIGNATURES		
F				

### INDEX OF SHEETS

### SHEET NUMBER

SHEET

EROSION CONTROL PLANS

UTILITIES BY OTHERS

1	TITLE SHEET
1 A	INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS
1 B	CONVENTIONAL SYMBOLS
2B-1 THRU 2B-2	PIPE INSTALLATION DETAILS
3D-1	DRAINAGE SUMMARY SHEET
4 THRU 5	PLAN AND PROFILE SHEETS
TMP-1 THRU TMP-4	TRANSPORTATION MANAGEMENT PLANS
PMP-1 THRU PMP-2	PAVEMENT MARKING PLANS

EC-1 THRU EC-5 SIG-1 THRU SIG-2.2 SIGNAL PLANS UO-1 THRU UO-4

GENERAL NOTES:

## 2024 SPECIFICATIONS EFFECTIVE: 01-16-2024 REVISED:

SUBSURFACE PLANS:

NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS. UTILITIES:

UTILITY OWNERS ON THIS PROJECT ARE CLAY COUNTY WATER AND SEWER DISTRICT, BLUE RIDGE MOUNTAIN EMC, FRONTIER, & WINDSTREAM

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS, EXCEPT AS SHOWN ON THE PLANS.

EFF. 01-16-2024 REV.

### 2024 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, 2018 are applicable to this project and by reference hereby are considered a part of these plans:

### STD.NO.

### TITLE

DIVISION 3 - PIPE CULVERTS 310.10 Driveway Pipe Construction DIVISION 6 - ASPHALT BASES AND PAVEMENTS DIVISION 6 - ASPHALT BASES AND PAVEMENTS 654.01 Pavement Repairs DIVISION 8 - INCIDENTALS 840.00 Concrete Base Pad for Drainage Structures 840.24 Frames and Narrow Slot Flat Grates 840.31 Concrete Junction Box - 12" thru 66" Pipe 840.32 Brick Junction Box - 12" thru 66" Pipe 840.35 Traffic Bearing Grated Drop Inlet - for Cast Iron Double Frame and Grates 840.45 Precast Drainage Structure 840.46 Traffic Bearing Precast Drainage Structure 840.54 Manbole Frame and Cover 840.54 Manhole Frame and Cover 840.66 Drainage Structure Steps 846.01 Concrete Curb, Gutter, and Curb and Gutter 852.01 852.06 852.06 852.06 Guide for Rip Rap at Pipe Outlets

Johnson, Mirmiran, & Thompson Inc.	PROJECT REFERENCE NO.	SHEET NO.
4700 Falls of Neuse Rd. Suite 100.	R-5863A	I/A
Raleigh, NC, 27606 License No: C-3097	R/W SHEET NO.	
	ROADWAY DESIGN ENGINEER	
	DOCUMENT NOT CONSI UNLESS ALL SIGNATURE	

Wetland

False Sump-

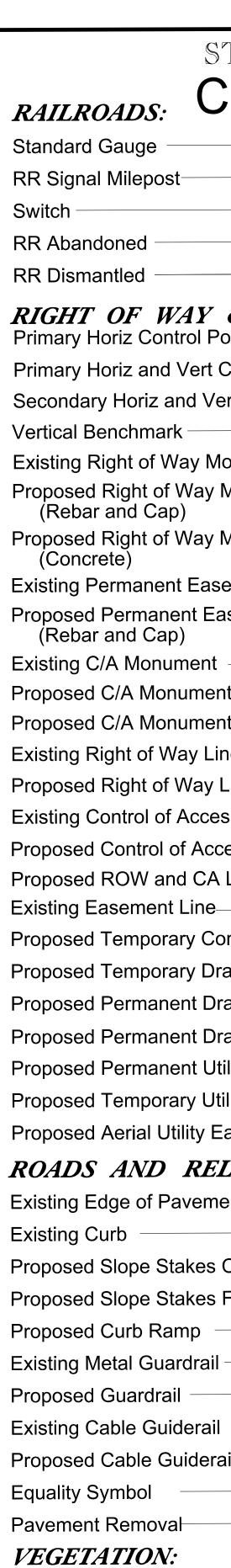
Proposed Lateral, Tail, Head Ditch

11/14/23

### Note: Not to Scale

### **BOUNDARIES AND PROPERTY:**

DOUNDAMILS MAD INOLLAII.	
State Line	
County Line	
Township Line	
City Line	
Reservation Line	
Property Line	
Existing Iron Pin (EIP)	O
Computed Property Corner	— ×
Existing Concrete Monument (ECM)	ECM
Parcel / Sequence Numbe <del>r</del>	— (123)
Existing Fence Line	XXX-
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 — 💓 — s —
Potential Contamination Area: Soil	— - X – s – X – s –
Known Contamination Area: Water	— - 😿 — w — 😿 — w —
Potential Contamination Area: Water	— - X - w - X - w -
Contaminated Site: Known or Potential	- 22
BUILDINGS AND OTHER CULT	
Gas Pump Vent or U/G Tank Cap	— 0
Sign —	③
Well	O
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	-0



Single Tree \_\_\_\_\_ Single Shrub \_\_\_\_\_ Hedge \_\_\_\_

FLOW

 $\diamondsuit$ 

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

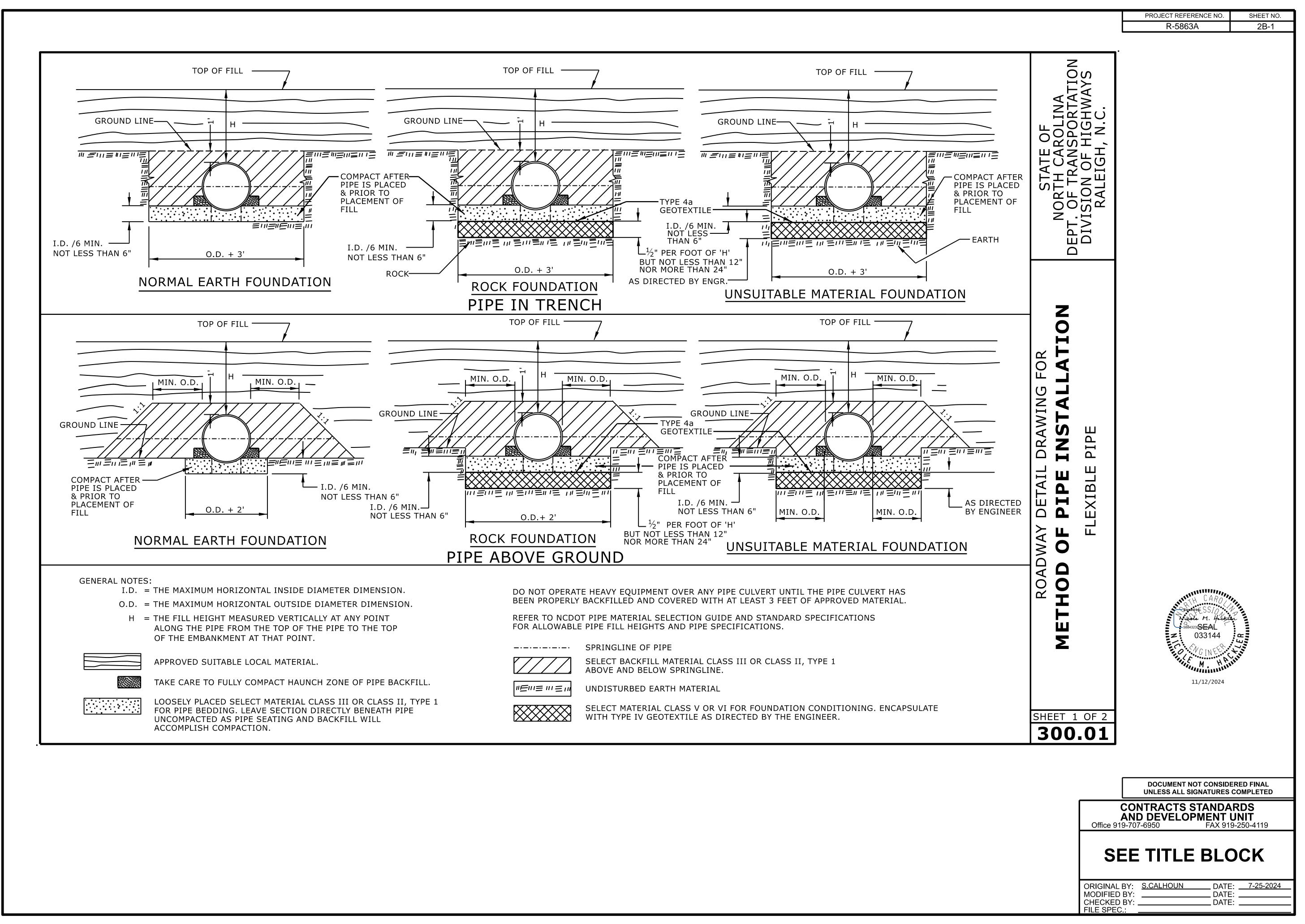
CSX TRANSPORTATION

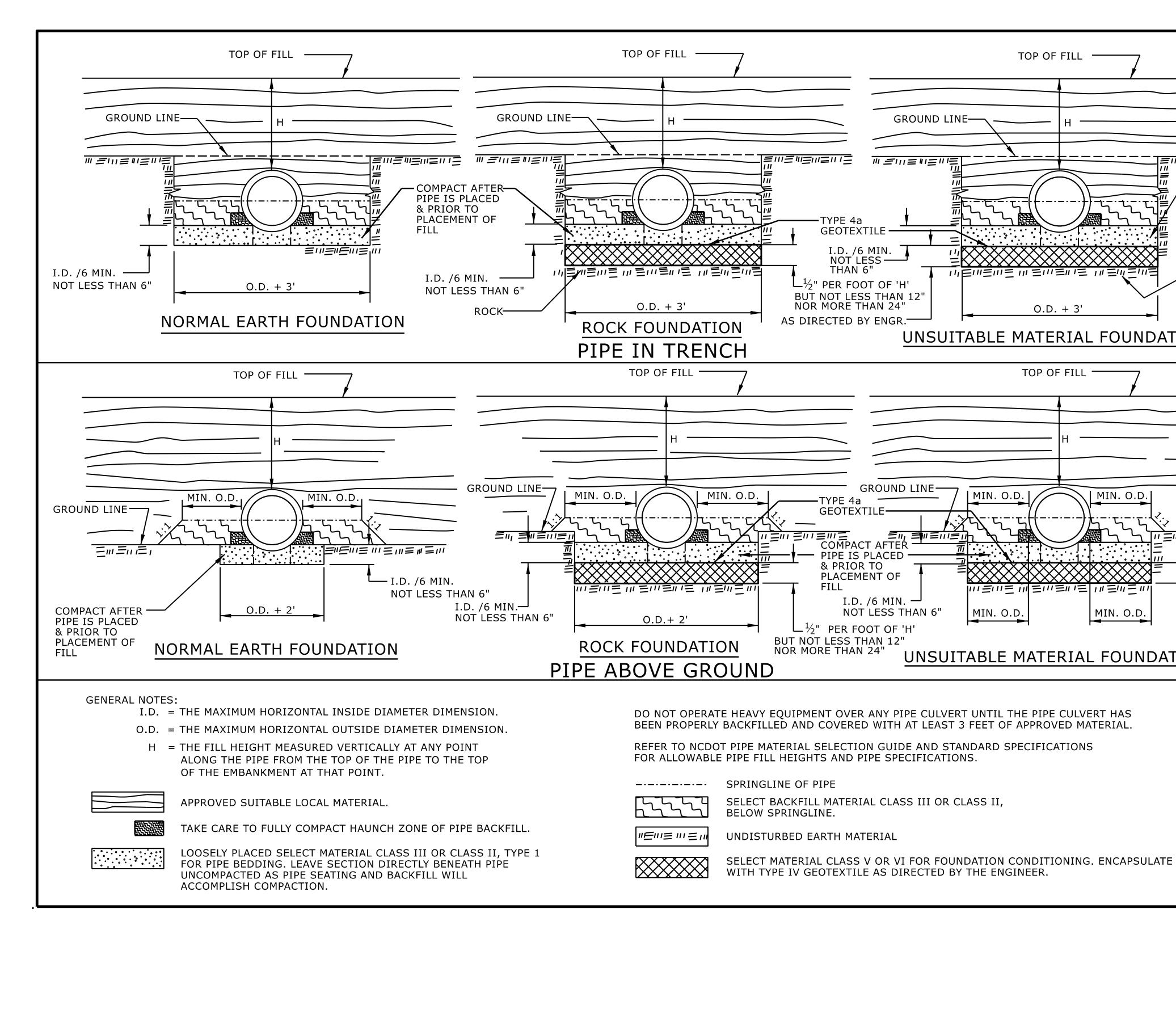
⊙ MILEPOST 35

	SWITCH
& PROJECT CON	NTROL:
Control Point	
ert Control Point ——	
lonument	$\bigtriangleup$
Monument	
Monument	
ement Monument	$\langle \cdot \rangle$
asement Monumen <del>t</del>	
	$\bigwedge$
nt (Rebar and Cap)—	
nt (Concrete)	$\widehat{\mathbf{A}}$
ne	
Line	
ess Line	( <u>Ĉ</u> ),
cess Line	
Line — ·	RW CA
	E
onstruction Easement	
rainage Easement	
rainage Easement	
rainage/Utility Easement	
tility Easement	
tility Easement	
asement	AUE
LATED FEATURE.	S:-
ent	
Cut	
Fill	
	CR
	<u> </u>
ail ———	
	÷
	с ¢

Woods Line	
Orchard	
Vineyard	- Vineyard
EXISTING STRUCTURES:	
MAJOR:	
Bridge, Tunnel or Box Culvert	CONC
Bridge Wing Wall, Head Wall and End Wall	- ) CONC WW (
MINOR: Head and End Wall	CONC HW
Pipe Culvert	
Footbridge ————————————————————————————————————	СВ
Paved Ditch Gutter	
Storm Sewer Manhole	S
	_
	5
<i>VTILITIES:</i> * SUE - Subsurface Utility Engineering LOS - Level of Service - A,B,C or D (/ POWER:	Accuracy)
Existing Power Pole	-
Proposed Power Pole	6
Existing Joint Use Pole	
Proposed Joint Use Pole	1
Power Manhole	
Power Line Tower	-
Power Transformer	-
U/G Power Cable Hand Hole	- H <sub>H</sub>
H-Frame Pole	- •-•
U/G Power Line Test Hole (SUE - LOS A)* $-$	-
U/G Power Line (SUE - LOS B)*	
U/G Power Line (SUE - LOS C)*	
U/G Power Line (SUE - LOS D)*	
TELEPHONE:	
Existing Telephone Pole	
Proposed Telephone Pole	
Telephone Manhole	
Telephone Pedestal	
Telephone Cell Tower	
U/G Telephone Cable Hand Hole	
U/G Telephone Test Hole (SUE - LOS A)* —	
U/G Telephone Cable (SUE - LOS B)*	
U/G Telephone Cable (SUE - LOS C)*	
U/G Telephone Cable (SUE - LOS D)*	
U/G Telephone Conduit (SUE - LOS B)*	
U/G Telephone Conduit (SUE - LOS C)*	
U/G Telephone Conduit (SUE - LOS D)*	
U/G Fiber Optics Cable (SUE - LOS B)*	
U/G Fiber Optics Cable (SUE - LOS C)*	
U/G Fiber Optics Cable (SUE - LOS D)*	

	R-5863A
	OOIB
WATER:	
Water Manhole	(W)
Water Meter	
Water Valve	$\otimes$
Water Hydrant	÷
U/G Water Line Test Hole (SUE - LOS A)* —	
	w w
U/G Water Line (SUE - LOS C)*	
U/G Water Line (SUE - LOS D)*	
Above Ground Water Line	
TV:	
TV Pedestal	
TV Tower	
U/G TV Cable Hand Hole	н
U/G TV Test Hole (SUE - LOS A)*	
	— — — TV — — –
	Tv
U/G TV Cable (SUE - LOS D)*	
U/G Fiber Optic Cable (SUE - LOS B)*	
U/G Fiber Optic Cable (SUE - LOS C)*	
U/G Fiber Optic Cable (SUE - LOS D)*	TV FO
GAS:	$\wedge$
Gas Valve	↓ A
Gas Meter — Gas Line Test Hele (SUE LOS A)* —	$\forall$
U/G Gas Line Test Hole (SUE - LOS A)*	S→
U/G Gas Line (SUE - LOS B)* U/G Gas Line (SUE - LOS C)*	
U/G Gas Line (SUE - LOS D)*	A/G Gas
SANITARY SEWER: Sanitary Sewer Manhole	$\oplus$
Sanitary Sewer Manhole Sanitary Sewer Cleanout	$\oplus$
U/G Sanitary Sewer Cleanout	~
Above Ground Sanitary Sewer Line	
SS Force Main Line Test Hole (SUE - LOS A)*	
	— — — — FSS — — — –
SS Force Main Line (SUE - LOS C)*	
SS Force Main Line (SUE - LOS D)*	
MISCELLANEOUS:	
Utility Pole	•
Utility Pole with Base	
Utility Located Object	$\odot$
Utility Traffic Signal Box	S
Utility Unknown U/G Line (SUE - LOS B)* —	
U/G Tank; Water, Gas, Oil	
Underground Storage Tank, Approx. Loc.	(UST)
A/G Tank; Water, Gas, Oil	
Geoenvironmental Boring	
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.





ION     INCLUSERE ACTIONNUMBER     INCLUSER				PROJECT R	EFERENCE NO.	SHEET NO.
			Ľ			
AS DIRECTED BY ENGINEER TION BY ENGINEER BY ENGINEER B	PIPE IS PLACED & PRIOR TO PLACEMENT OF FILL	TATE OF H CAROLINA FRANSPORTATI V OF HIGHWAY	RALEIGH, N.C.			
HIEFTINE ALIGONATURES COMPLETED HIEFTINE ALIGONATURES COMPLETED HIEFTINE ALIGNATURES COMPLETED SHEET 2 OF 2 300.01 DICLEMENT NOT CONSIDERED FINAL UNLESS ALIGNATURES COMPLETED DICLESS TANDARDS AND DEVELOPMENT UNIT Office 91:9:707:0950 FAX 919-250-4119 SEE TITLE BLOCK	ΓΙΟΝ	Z				
<b>300.01</b> DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED <b>CONTRACTS STANDARDS</b> AND DEVELOPMENT UNIT Office 919-707-6950 FAX 919-250-4119 <b>SEE TITLE BLOCK</b> ORIGINAL BY:       S.CALHOUN         DATE:       7-25-2024		Y DETAIL DRAWING FOR <b>PIPE INSTALLAT</b>			033144	
UNLESS ALL SIGNATURES COMPLETED  CONTRACTS STANDARDS AND DEVELOPMENT UNIT Office 919-707-6950 FAX 919-250-4119  SEE TITLE BLOCK  ORIGINAL BY: S.CALHOUN DATE: 7-25-2024 MODIFIED BY: DATE: 7-25-2024						
		OF	Office 919 SE	UNLESS AL ONTRACT ND DEVEL 707-6950 E TITL Y: S.CALHOUI	S STANDA OPMENT U FAX 919	сомріетер RDS JNIT 9-250-4119 DCK : <u>7-25-2024</u>
CHECKED BY: DATE: FILE SPEC.:		CH	HECKED B	Y:	DATE	·

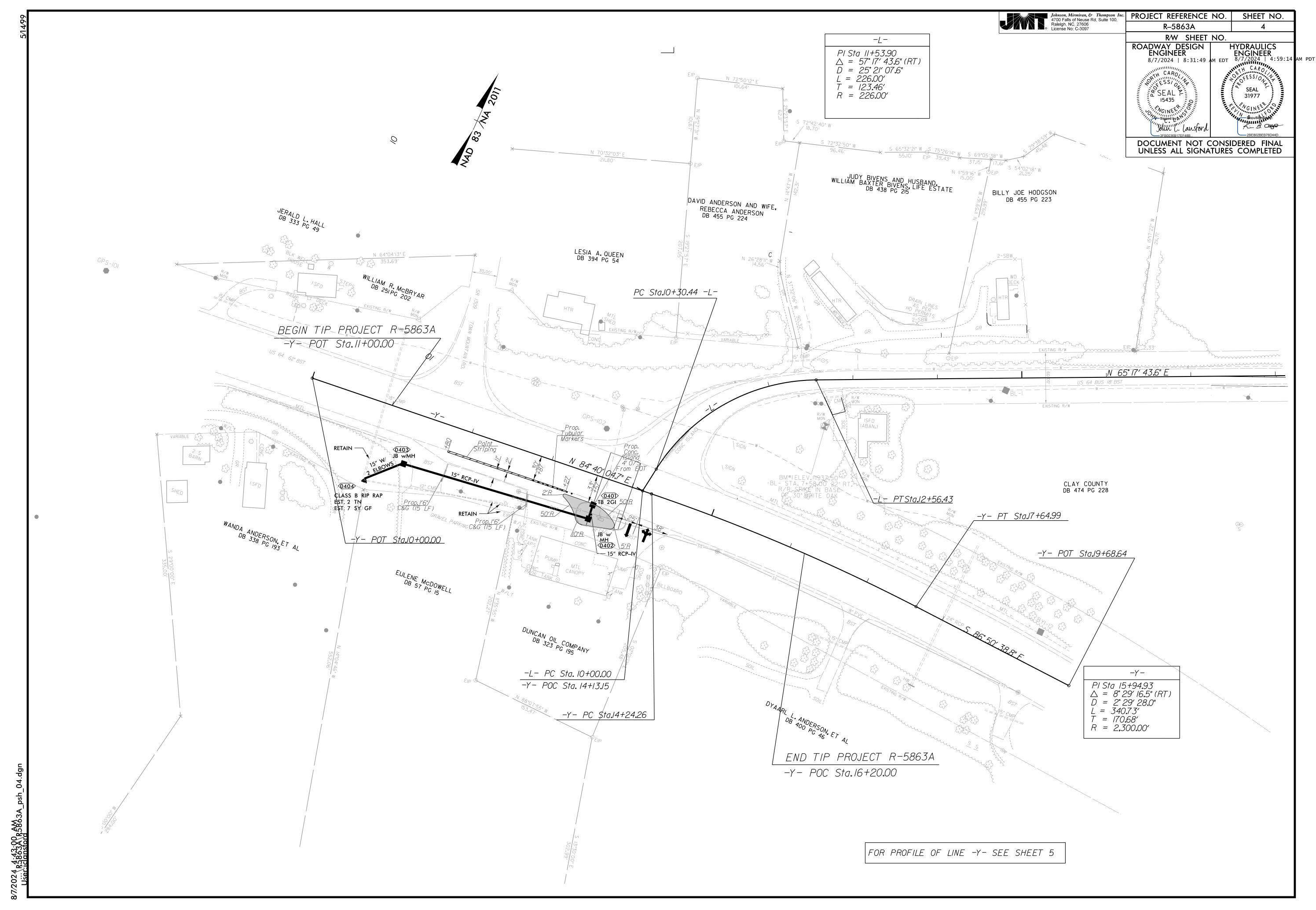
\_\_\_\_\_

PUTED BY:	JCL	DATE:7/22/2024																							ROJECT REFERENCE NO.	SHEET NO
(ED BY:	CJY	DATE: <u>8⁄2/2024</u>													H CA										R-5863A	3D-
		s are for Bid Purpose Specifications For Roo							construction stakeout. LIST OF	PIPI	SUB-	-RE(	GION	AL E	HIGH FOR	GIO	NAL	'& UNI	DER)							
	STRUCTURE NO.	VATION VATION		(RCF	DRAIN, P, CSP, CA4	AGE PIPE NP, HDPE,	or PVC)		C.S. PIPE		R.C. PIPE (CLASS III)		R.C. P (CLASS	PE IV)	NTRACTOR DESIGN PIPE	TOR DESIGN	ENDWALLS STD. 838.01, STD. 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE)	A COLUMATITIES QUANTITIES FOR DRAINAGE STRUCTURES * TOTAL L.F. FOR PA QUANTITY SHALL BE 'A' + (1.3 X COL.'I 'A' - (1.3 X COL.'I	FRAME, GRATES AND HOOD STANDARD 840.03	CONCRETE TRANSITIONAL SECTION	GRATE STD. 840.24 TWO GRATES STD. 840.24	40.54	40. & SIZE	, C.Y. STD. 840.71	<u>ABBREVIATIC</u> C.B. CATCH BASI N.D.I. NARROW D D.I. DROP INLET G.D.I. GRATED DRO G.D.I. (N.S.) GRATED DRO (NARROW S	IN ROP INLET OP INLET
SIZE ZO		TOP ELEVAT	5 12″ 1!	5″ 18″ 2	24″ 30″ 3	86″ 42″	RCP	CSP	на 12" 15" 18" 24" 36" 42" 48	″ 15″ 18″	24" 30" 36" 42" 4	48″ 12″ 15	" 18" 24" 3	0" 36" 42"	1 % % % % % % % % % % % % % % % % % % %	ULVERTS, CO	CU. YDS.	- () *FT. ()			340.35 RAME WITH C	OR 840.3 COVER STE	E ELBOWS N	K PIPE PLUG	J.B. JUNCTION I M.H. MANHOLE T.B.D.I. TRAFFIC BEA	вох
CKNESS GAUGE	FROM							NOT NOT	<ul> <li>NOT USE</li> <li>.064</li> <li>.064</li> <li>.064</li> <li>.064</li> <li>.079</li> <li>.109</li> </ul>						R. C. PIPE (C R. C. PIPE C	R. C. PIPE C SIDE DRAIN SIDE DRAIN	R.C.P. C.S.P.	THRU STD	TYPE OF GRATE	TCH BASIN	.D.I. STD. 84 D.I. (N.S.) FR	STD.	AINAGE PIP	INC. & BRIC	T.B.J.B. TRAFFIC BEA	
															* *	**" 15″ 18″		5.0 <sup>′</sup>	E F G	DR CA	C.I. C.I.		Ď		REMARKS	
.00 _Y_ R			4	B'																			2 – 15″			
		1948.20 1944.06																1				1 1				
	0403 0402											22	3'													
		1949.60 1945.19																1				1 1	_			
	T 0402 0401											16	/										_			
8.00 –Y– R	Г 0401	1948.44 1945.27		_		_		_																		
TOTAL				8'								24										2 2	2 – 15″			

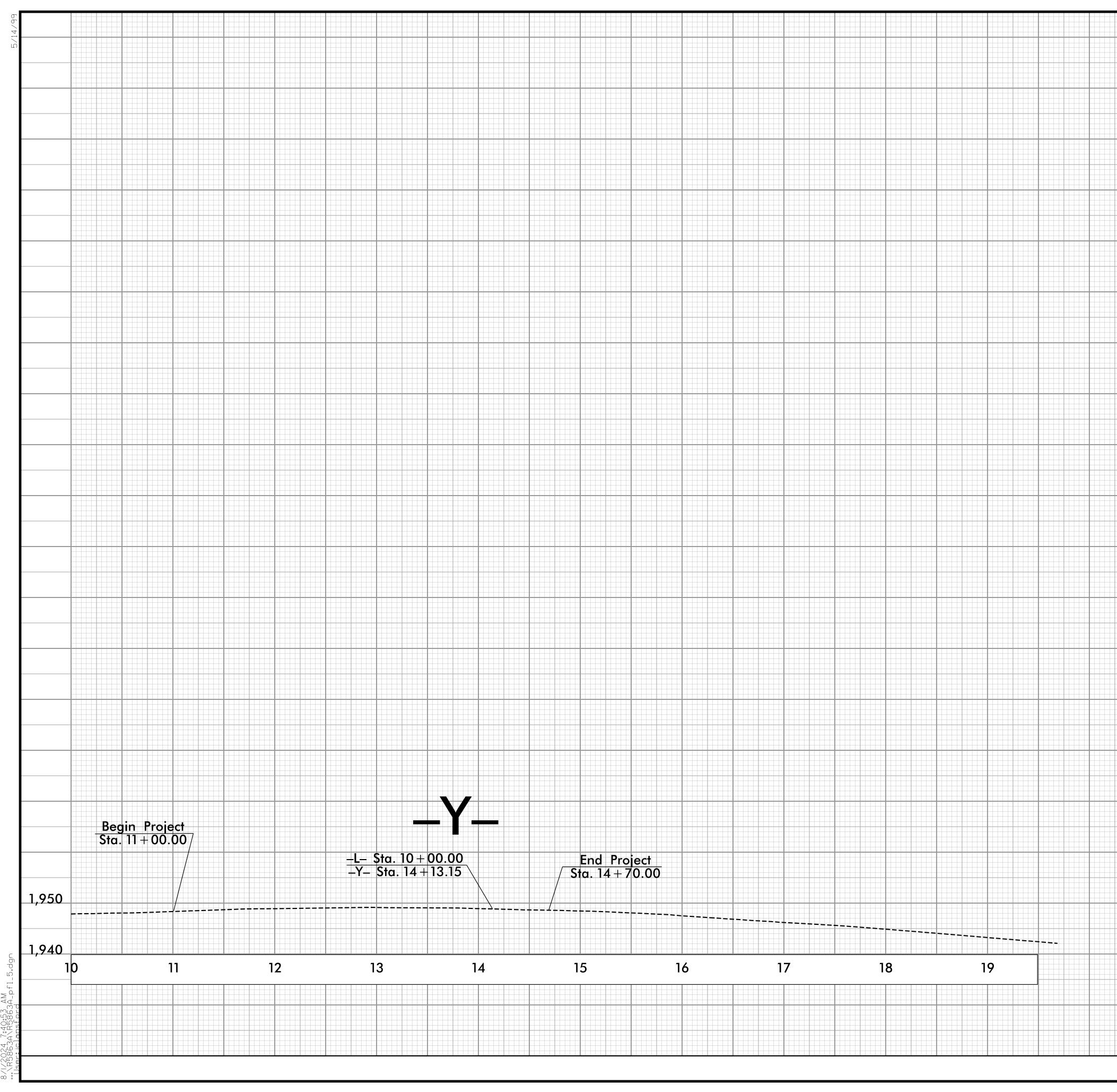
ED BY: D BY:	CJY JCL		re: 7/2 re: 8/2										STAI	'E OF	NORT	'H CAI	ROLI	NA										PRC	JECT REFERENCE NO. R-5863A	SHEET NO
OTE: Invert See "S						nd shall na Structures,			oject cor			PIPE	$\mathbb{D}$ ]	IVISIC <b>REGI</b>	N OF DNAL	HIGHW S <b>RE(</b>	AYS GION	AL	& UN	<b>NDER</b>	2)									
ZO ↓ (LT,RT, OR CL)	STRUCTURE NO.	NJION	EVATION	EVATION	ITICAL	DRA (RCP, CSP, C	INAGE PIPE CAAP, HDPE, 1	or PVC)			C.S. PIPE		R.C. PIPE (CLASS III)		R.C. PIPE (CLASS IV)	ONTRACTOR DESIGN PIPE		ENDWALLS STD. 838.01, STD. 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE)	QUANTITIES FOR DRAINAGE STRUCTURES * TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B')		FRAME, GRATES AND HOOD FANDARD 840.03	CONCRETE TRANSITIONAL SECTION		GRATE STD. 840.24		NO. & SIZE	G, C.Y. STD. 840.71		ABBREVIATIO C.B. CATCH BASI N.D.I. NARROW D D.I. DROP INLET G.D.I. GRATED DRO G.D.I. (N.S.) GRATED DRO (NARROW S	IN PROP INLET OP INLET
ZE ZOLFY CNESS GAUGE	FROM TO	TOP ELEVA	INVERT ELE	INVERT ELE	аларана 2018 12″ 15	18" 24" 30"	36" 42" 4	USE RCP		.064		48" 15" 18" 2 6 <u>.</u>	4" 30" 36" 42" 48'	12″ 15″ 18′	24" 30" 36" 42'	**" R. C. PIPE (CLASS V) **" R. C. PIPE (CLASS V) **" R. C. PIPE CULVERTS, CC		CU. YDS.	PER EACH (0' THRU 5.0') 5.0' THRU 10.0' > 10.0' AND ABOVE 🔤 .T <u>4</u>	STD	TYPE OF GRATE	CATCH BASIN DROP INLET	T.B.D.L. STD. 840.35	0.1. (N.S.) FRAW	J.B. STD. 840.31 OR 840. M.H. FRAME & COVER STI	DRAINAGE PIPE ELBOWS	CONC. & BRICK PIPE PLUC	PIPE REMOVAL LIN.FT.	J.B. JUNCTION M.H. MANHOLE T.B.D.I. TRAFFIC BEA	BOX ARING DROP I ARING JUNCTI
.00 –Y– RT	0404 040	3	1928.30	1944.06	48																					2 - 15	5″			
00 –Y– RT	0403		-																1						1 1					
0 _Y_ RT	0403 040	2	1944.06	1945.19										228′																
D _Y_ RT	0402	1949.60	1945.19																1						1 1					
D –Y– RT	0402 040	1	1945.19	1945.27										16′																
00 _Y_ RT	0401	1948.44	1945.27																1				1							
AL					48	,								244′					3				1	1	2 2	2 - 15	5″			

24 8:30:0

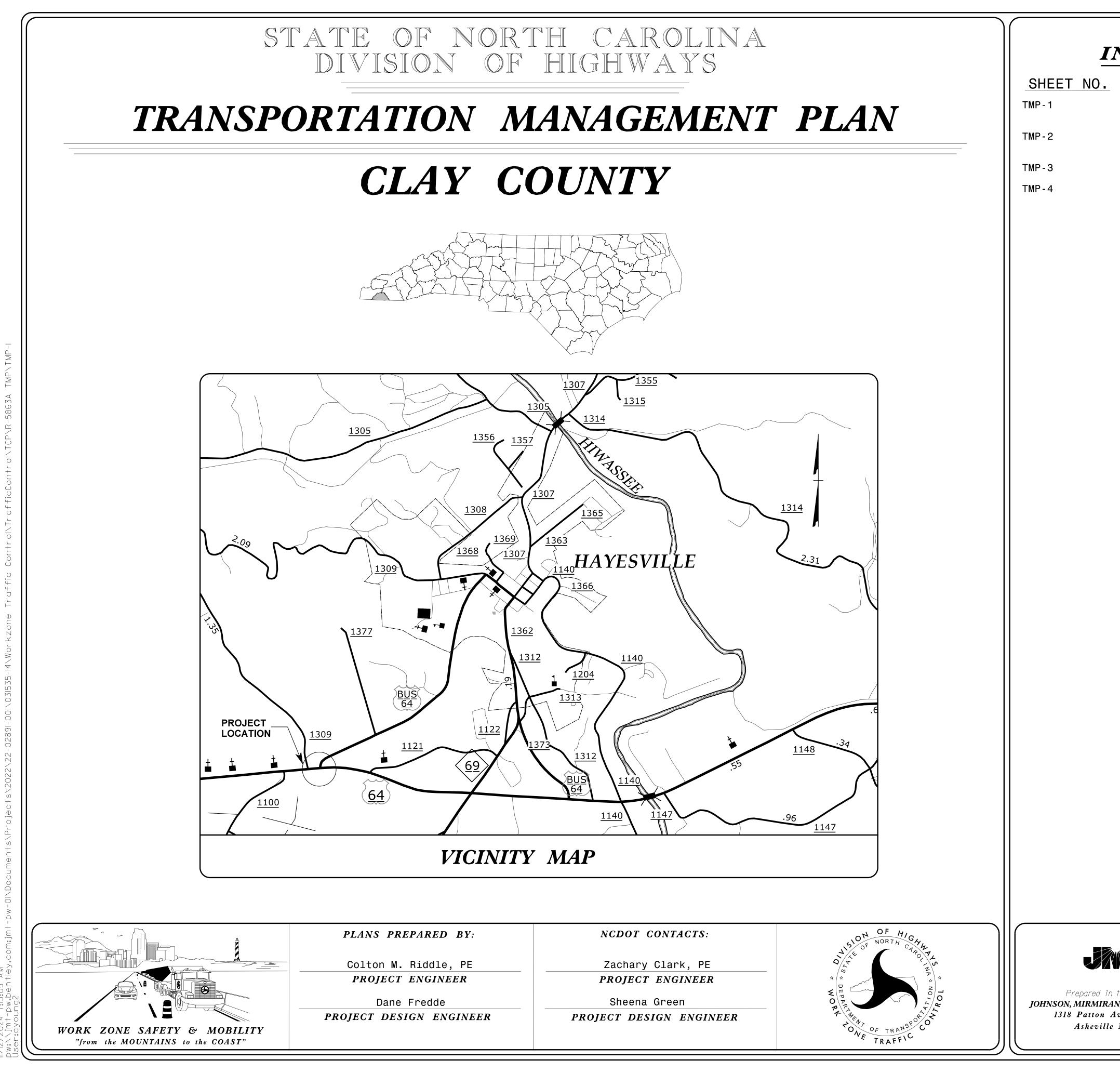
Docusign Envelope ID: A8A06515-3DF1-4FA7-9FA0-888FBEB46D11



### Docusign Envelope ID: A4D62106-2AFF-4348-9634-C3C1903213F8



		1			-
ROADWAY DESIGN ENGINEER IS435 IS435 BOCUMENT NOT CONSIDERED FINAL			Johnson, Mirmiran, & Thompson Inc. 4700 Falls of Neuse Rd, Suite 100, Raleigh, NC, 27606	PROJECT REFERENCE NO. $R-5863A$	SHEET NO.
CAROLINI CAROLINI 15435 15435 8/6/2024 DOCUMENT NOT CONSIDERED FINAL				ROADWAY DESIGN	
BOCUMENT NOT CONSIDERED FINAL					
BOCUMENT NOT CONSIDERED FINAL				and hed by the second s	
DOCUMENT NOT CONSIDERED FINAL					
DOCUMENT NOT CONSIDERED FINAL				NGINEE S	
DOCUMENT NOT CONSIDERED FINAL					
				67 07 2024	



TITLE SHEET LIST DRAWI TRANS	<b>DE SHEETS LITLE</b> SHEET, VICINITY MAP, AND INDEX OF SMEET, VICINITY MAP, AND INDEX OF SMEETS         OF APPLICABLE ROADWAY STANDARD MAGS, & LEGEND         SPORTATION OPERATIONS PLAN         TC CONTROL DETAIL	SHEET NO. TMP-1
		DN01072
	DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	PROJECT:
the Office of: N,& THOMPSON, INC. venue, Suite F, NC, 28806	APPROVED: Colton M. Riddle 522959EA0B3F497 DATE: 11/12/2024 SEAL 057712 11/12/2024 SEAL 057712 11/12/2024	LIP

## ROADWAY STANDARD DRAWINGS

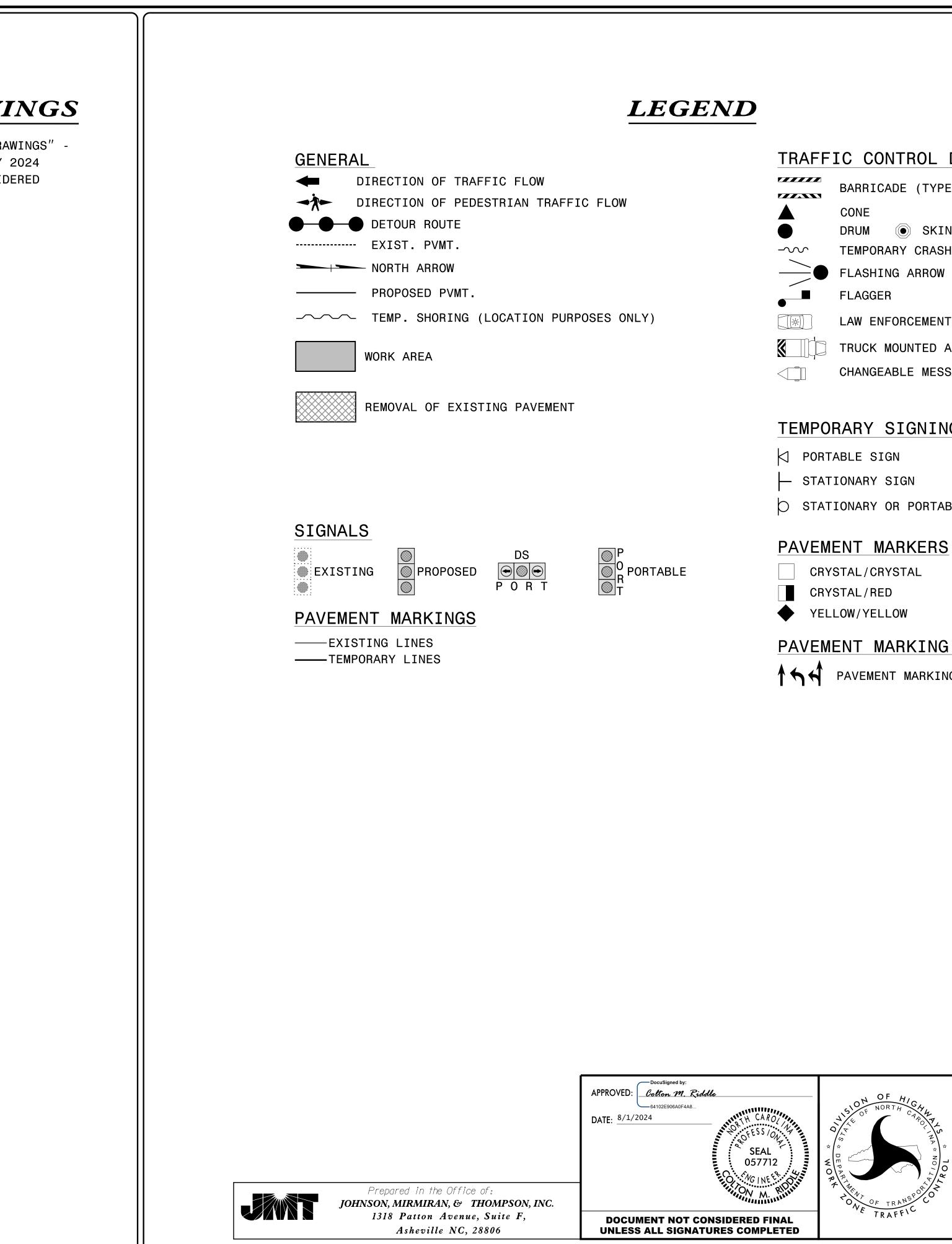
THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" -N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2024 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.

### TITLE

WORK ZONE ADVANCE WARNING SIGNS 1101.01 1101.02 TEMPORARY LANE CLOSURES TEMPORARY SHOULDER CLOSURES 1101.04 TRAFFIC CONTROL DESIGN TABLES 1101.11 STATIONARY WORK ZONE SIGNS 1110.01 PORTABLE WORK ZONE SIGNS 1110.02 1130.01 DRUMS CONES 1135.01 1145.01 BARRICADES SKINNY - DRUMS 1180.01

000



		R-5863A	TMP-2
IKAFF	IC CONTROL DEVICES		
	BARRICADE (TYPE III)		
	BARRICADE (THE III)		
	CONE		
	DRUM 💿 SKINNY DRUM 🎯 '	TUBULAR MARKER	
-~~	TEMPORARY CRASH CUSHION		
	FLASHING ARROW BOARD		
	FLAGGER		
	LAW ENFORCEMENT		

CHANGEABLE MESSAGE SIGN

### TEMPORARY SIGNING

- STATIONARY OR PORTABLE SIGN

### PAVEMENT MARKING SYMBOLS

PAVEMENT MARKING SYMBOLS

### ROADWAY STANDARD DRAWINGS, & LEGEND

## MANAGEMENT STRATEGIES

### CONSTRUCTION

ADDING MONOLITHIC ISLAND AT THE HOT SPOT GAS STATION ON US 64.

TMP DESIGN PARAMETERS

THIS PROJECT CONTAINS DAILY LANE. HOLIDAYS, AND SPECIAL EVENTS RESTRICTIONS.

GENERAL SEQUENCE OF CONSTRUCTION

THIS PROJECT CONSIST OF LANE CLOSURES TO CONSTRUCT PROPOSED MONOLITHIC ISLAND ON US 64.

TRAFFIC MANAGEMENT STRATEGIES

LANE SHIFTS OR CLOSURES SHOULDER CLOSURES

## **GENERAL NOTES**

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR DIRECTED BY THE ENGINEER.

### TIME RESTRICTIONS

A) DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND SPECIAL E) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER EVENTS, EXCEPT AS DIRECTED IN PHASING (SEE TMP-4), AS FOLLOWS: ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE. CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD ROAD NAME DRAWINGS NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

US 64 (-Y-)

### HOLIDAY

- 1. FOR ANY UNEXPECTED OCCURENCE THAT CREATES UNUSALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- 2. FOR NEW YEAR'S, BETWEEN THE HOURS OF 7:00 A.M. DECEMBER 31st TO 6:00 P.M. JANUARY 2nd. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 6:00 P.M. THE FOLLOWING TUESDAY.
- 3. FOR EASTER, BETWEEN THE HOURS OF 7:00 A.M. THURSDAY AND 6:00 P.M. MONDAY.
- 4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 7:00 A.M. FRIDAY TO 6:00 P.M. TUESDAY.
- 5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 7:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 6:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN BETWEEN THE HOURS OF 7:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 6:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.

- 6. FOR LABOR DAY, BETWEEN THE HOURS OF 7:00 A.M. FRIDAY AND 6:00 P.M. TUESDAY.
- 7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 7:00 A.M. TUESDAY TO 6:00 P.M. MONDAY.
- 8. FOR CHRISTMAS, BETWEEN THE HOURS OF 7:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 6:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.
- B) DO NOT CONDUCT ANY HAULING OPERATIONS AGAINST THE FLOW OF TRAFFIC OF AN OPEN TRAVELWAY UNLESS THE HAULING OPERATION IS PROTECTED BY BARRIER OR GUARDRAIL OR AS DIRECTED BY THE ENGINEER.

### LANE AND SHOULDER CLOSURE REQUIREMENTS

- C) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.
- D) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWINGS NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.

WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWINGS NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

F) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.

### LOCAL NOTES:

- 1) EMERGENCY VEHICLE ACCESS MUST BE MAINTAINED AT ALL TIMES.
- 2) NOTIFY THE FIRE DEPT, E.M.S., AND CLAY COUNTY SCHOOL BOARD 30 DAYS PRIOR TO ROAD CLOSURE.
- 3) LOCAL ACCESS TO ALL RESIDENCES AND BUSINESSES WILL BE MAINTAINED BETWEEN CLOSURE POINTS AT ALL TIMES DURING CONSTRUCTION.

### PAVEMENT EDGE DROP OF

H) BACKFILL AT A 6:1 PAVEMENT IN AREAS EDGE OF PAVEMENT D

> BACKFILL DROP-OFF POSTED SPEED LIMI

> BACKFILL DROP-OFF POSTED SPEED LIMI

BACKFILL WITH SUI ENGINEER, AT NO E

I) DO NOT EXCEED A DI OF TRAFFIC FOR NOM "UNEVEN LANES" SIG OF EVERY HALF MILE

### TRAFFIC PATTERN ALTER

J) NOTIFY THE ENGINEE TRAFFIC PATTERN AL

### SIGNING

- K) INSTALL ADVANCE WC 40 FT FROM THE EDG (3) DAYS PRIOR TO
- L) ENSURE ALL NECESSA TRAFFIC PATTERN.
- M) INSTALL BLACK ON O (W8-1) 175 FT IN A THE ENGINEER.

### TRAFFIC CONTROL DEVIC

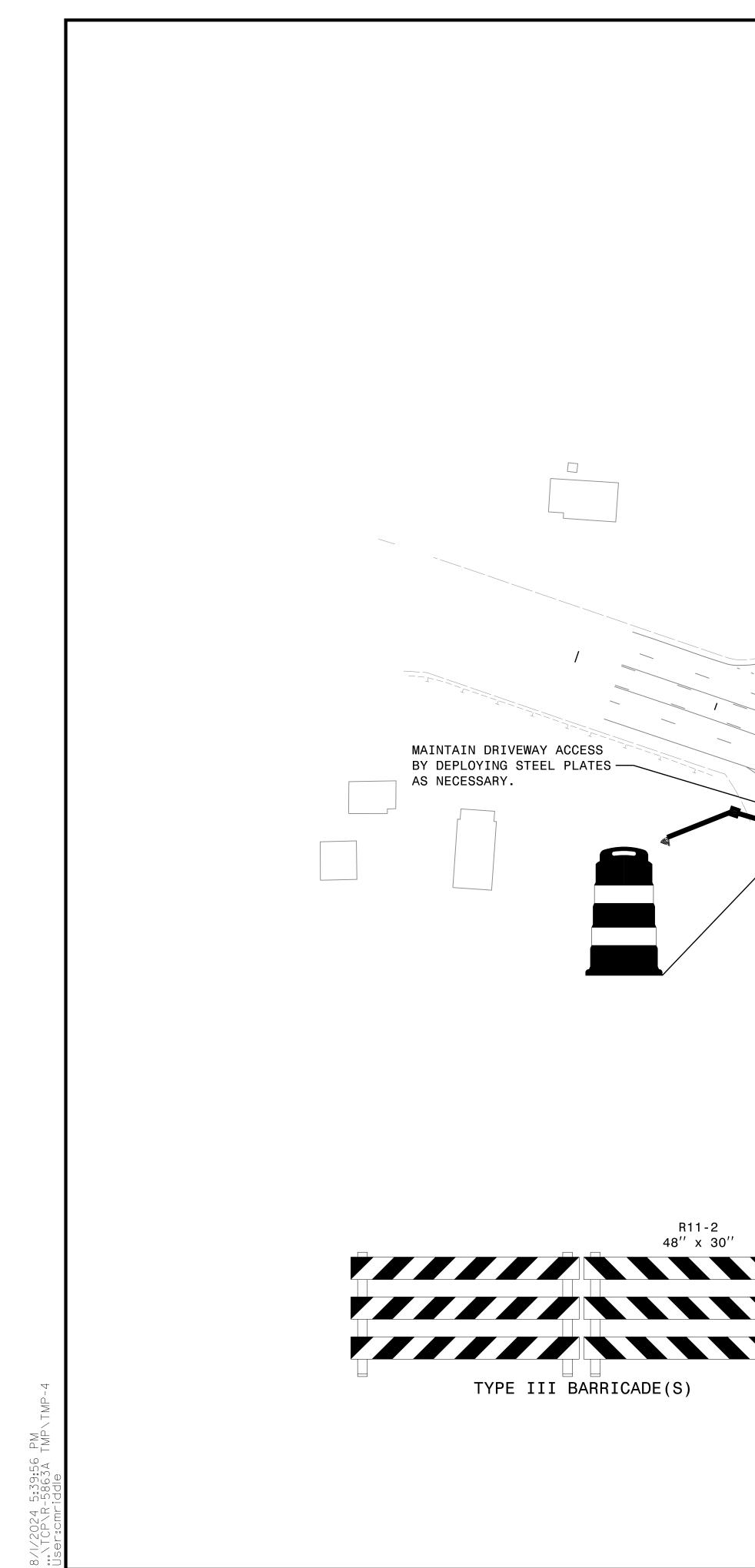
- N) WHEN LANE CLOSURES AREAS NO GREATER T AND NO GREATER THA TO 45 (MPH) EXCEPT OPEN TRAVELWAY. F SECTIONS 1130 (DRL REQUIREMENTS.
- 0) PLACE TYPE III BAR ATTACHED, OF SUFFI

### MISCELLANEOUS

- P) IN THE EVENT A TIE AREA TO AN APPROP: BLACK ON ORANGE "I SIGNS (W8-3) 350 F USE DRUMS TO DELIN
- Q) ALL STATIONS ARE (

APPROVED: Collon M. Riddle 64102E906A0F4A8
DATE: 8/1/2024
DOCUMENT NOT CONSIDER

	PROJ. REFERENCE NO.	SHEET NO.
FF REQUIREMENTS	R-5863A	TMP-3
SLOPE UP TO THE EDGE AND ELEVATION OF ADJACENT TO AN OPENED TRAVEL LANE THA DROP-OFF AS FOLLOWS:		
FS THAT EXCEED 2 INCHES ON ROADWAYS WI ITS OF 45 MPH OR GREATER.	ITH	
FS THAT EXCEED 3 INCHES ON ROADWAYS WI ITS LESS THAN 45 MPH.	ITH	
ITABLE COMPACTED MATERIAL, AS APPROVED EXPENSE TO THE DEPARTMENT.	D BY THE	
IFFERENCE OF 2 INCHES IN ELEVATION BE MINAL LIFTS OF 1.5 INCHES. INSTALL AD GNS (W8-11) IN ADVANCE AND A MINIMUM E THROUGHOUT THE UNEVEN AREA.		
RATIONS		
ER THIRTY (30) CALENDAR DAYS PRIOR TO LTERATION.	ANY	
ORK ZONE WARNING SIGNS WHEN WORK IS WI GE OF TRAVEL LANE AND NO MORE THAN THF THE BEGINNING OF CONSTRUCTION.		
ARY SIGNING IS IN PLACE PRIOR TO ALTEP	RING ANY	
ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMF ADVANCE OF THE UNEVEN AREA, OR AS DIRE		
CES		
S ARE NOT IN EFFECT SPACE CHANNELIZING THAN 40 FT FOR POSTED SPEED LIMITS LES AN 80 FT FOR POSTED SPEED LIMITS GREAT T, 10 FT ON-CENTER IN RADII, AND 3 FT REFER TO STANDARD SPECIFICATIONS FOR F UMS), 1135 (CONES) AND 1180 (SKINNY DF	SS THAN 45 (MPH) FER THAN OR EQUAL OFF THE EDGE OF AN ROADS AND STRUCTURES	
RRICADES, WITH "ROAD CLOSED" SIGN R11- ICIENT LENGTH TO CLOSE ENTIRE ROADWAY.		
E-IN CANNOT BE MADE IN ONE DAY'S TIME, IATE ROADWAY ELEVATION AS DETERMINED LOOSE GRAVEL" SIGNS (W8-7) AND BLACK ( FT/MI AND 350 FT/MI RESPECTIVLEY IN A NEATE THE EDGE OF ROADWAY ALONG PAVED CONSIDERED +/- UNLESS OTHERWISE SHOWN	BY THE ENGINEER. PLA ON ORANGE "PAVEMENT   DVANCE OF THE UNEVEN AREAS.	ENDS"
	Prepared in the Office of: NSON, MIRMIRAN, & THOMPS 1318 Patton Avenue, Suite Asheville NC, 28806	
SEAL 057712	TRANSPORTATION OPERATIONS PLAN	S



you way and the second se	PROJ. REFERENCE NO.       SHEET NO.         RFEDT       -       ERECT WORK ZONE ADVANCED WARNING SIGNS USING DETAIL DRAWINGS FOR WORK ZONE SIGNS USING ROADWAY STANDARD DRAWING NO. 1101.01, SHEET 3 OF 3.         NOTE:       STEP 2 SHALL BE COMPLETED IN A CONTINUOUS OPERATION.         STEP 2:       -       USING FLAGGERS AS NECESSARY, PLACE TRAFFIC CONTROL DEVICES, AND CLOSE TURN LANE AND WESTERN ENTRANCE OF HOT SPOT GAS STATION.         STEP 3:       -       USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 OF 19, REMOVE EXISTING ISLAND, INSTALL PROPOSED DRAINAGE, AND INSTALL PROPOSED SIGNALS AND COVER THEM (SEE DETAILS BELOW).         STEP 4:       -       USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 OF 19, CONSTRUCT PROPOSED CONCRETE ISLAND, PLACE NECESSARY PAVEMENT, AND INSTALL TUBULAR MARKERS (SEE DETAILS BELOW).         NOTE:       STEP 5 SHALL BE COMPLETED IN A CONTINUOUS OPERATION.         STEP 5:       -       USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 OF 19, REMOVE EXISTING PAVEMENT MARKINGS AS NECESSARY, PAVEMENT, AND INSTALL TUBULAR MARKERS (SEE DETAILS BELOW).         NOTE:       STEP 5 SHALL BE COMPLETED IN A CONTINUOUS OPERATION.         STEP 5:       -       USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 OF 19, REMOVE EXISTING PAVEMENT MARKINGS AS NECESSARY, AND PLACE FINAL PAVEMENT MARKINGS (THERMOPLASTIC); PLACE TRAFFIC IN TARKINGS AS NECESSARY, AND PLACE FINAL PAVEMENT MARKINGS (THERMOPLASTIC); PLACE TRAFFIC IN TARFIC PATTERN; UNCOVER AND ACTIVATE NEWLY INSTALLED SIGNAL PLANS).
59 100 WOUNT ON FOR 10 100 100 100 100 100 100 100 100 100	
	DATE: 8/1/2024 DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

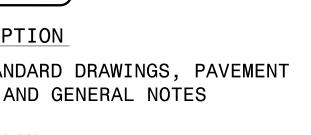
			DEI
5863			PAVE
			]
	SHEET NO	DESCRIPTIO	N
••	PMP - 1	INDEX, ROADWAY STANDARI MARKING SCHEDULE, AND (	-
	PMP-2	PAVEMENT MARKING PLAN	
	THE FOLLOWING ROADWA PROJECT SERVICES UNI	WAY STANDARDS AS APPEAR IN "ROAD AY STANDARDS AS APPEAR IN "ROAD IT - N.C. DEPARTMENT OF TRANSPO ARE APPLICABLE TO THIS PROJECT F THESE PLANS:	WAY STANDARD DRAWINGS' RTATION - RALEIGH, N.(
	STD. NO.	TITLE	
01072	1205.04 PA 1205.05 PA 1205.08 PA	VEMENT MARKINGS - LINE TYPES VEMENT MARKINGS - INTERSECTIO VEMENT MARKINGS - TURN LANES VEMENT MARKINGS - SYMBOLS AND ISED PAVEMENT MARKERS - INSTA	NS WORD MESSAGES
<b>10</b>			

PLAN SUBMITTED TO: NCDOT DIVISION 14

JARED BOND, PE

## STATE OF NORTH CAROLINA PARTMENT OF TRANSPORTATION

## EMENT MARKING PLAN CLAY COUNTY

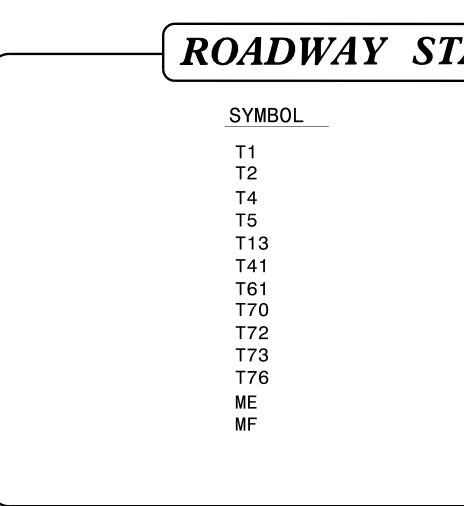


### THE FOLLOWING GENERAL NOTES THE CONSTRUCTION PROJECT, EX OR DIRECTED BY THE ENGINEER

A) INSTALL PAVEMENT MARKINGS AND AS FOLLOWS:

> ROAD NAME US 64

- THER
- B) TIE PROPOSED PAVEMENT MARKING
- C) REMOVE/REPLACE ANY CONFLICTIN



С., EBY ARE

OF NORTH CRACK
----------------

PLAN PREPARED BY:	
-------------------	--

PLAN PREPARED BY:		
CHARLES YOUNG, PE DANE FREDDE	SENIOR ENGINEER DESIGN ENGINEER	Johnson, Mirmiran, & Thompson Inc. 4700 Falls of Neuse Rd, Suite 100, Raleigh, NC, 27606 License No: C-3097

DIVISION PROJECT ENGINEER

		TIP NO.	SHEET NO.
		R-5863A	PMP - 1
_		APPROVED:	
		DATE: <u>11/12/2024</u>	
		SEAL	11,
IN		SEAL 046062 Charles J. Weiner	
		DOCUMENT NOT CONS UNLESS ALL SIGNATUR	
GENERAL NOTES	}		
ERAL NOTES APPLY AT ALL TIMES FO PROJECT, EXCEPT WHEN OTHERWISE N E ENGINEER.			
ARKINGS AND PAVEMENT MARKERS ON	THE FINAL SURFACE		
MARKING THERMOPLASTIC	MARKER SNOWPLOWABLE		
ENT MARKING LINES TO EXISTING PA	VEMENT MARKING LI	NES.	
CONFLICTING/DAMAGED PAVEMENT MA	RKINGS AND MARKER	IS.	
AY STANDARD D	RAWING		
DESCRIP	TION		

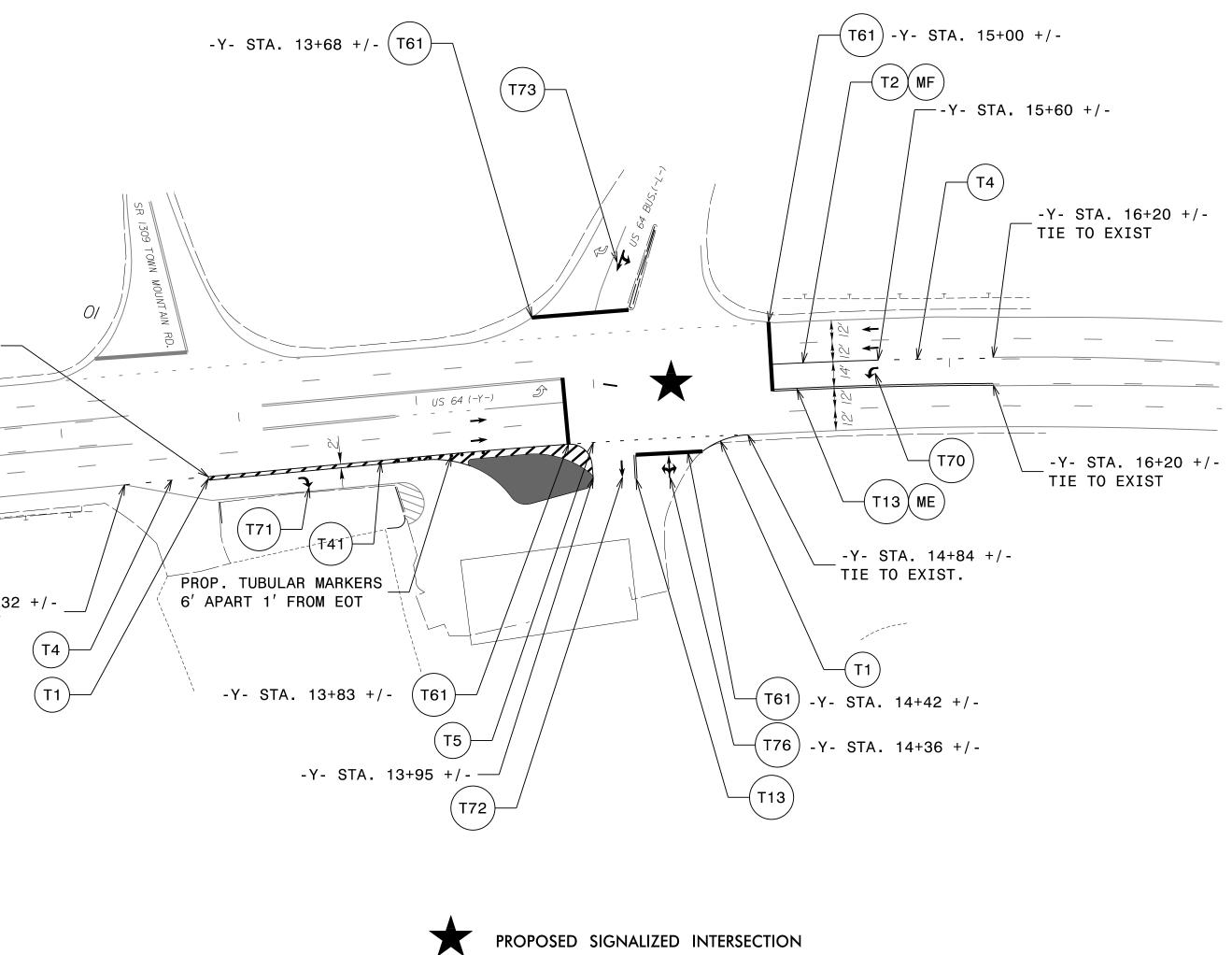
### WHITE EDGELINE (4", 90 MIL) WHITE SOLID LANE LINE (4", 90 MIL) 3 FT.-9 FT./SP WHITE MINISKIP (4", 90 MIL) 2 FT.-6 FT./SP WHITE MINISKIP (4", 90 MIL) YELLOW DOUBLE CENTER (4", 90 MIL) WHITE DIAGONAL (8", 90 MIL) WHITE STOPBAR (24", 90 MIL) LEFT TURN ARROW (90 MIL) STRAIGHT ARROW (90 MIL) COMBO. LEFT/STRAIGHT ARROW (90 MIL) COMBO. LEFT/RIGHT/STRAIGHT ARROW (90 MIL) SNOWPLOWABLE MARKER

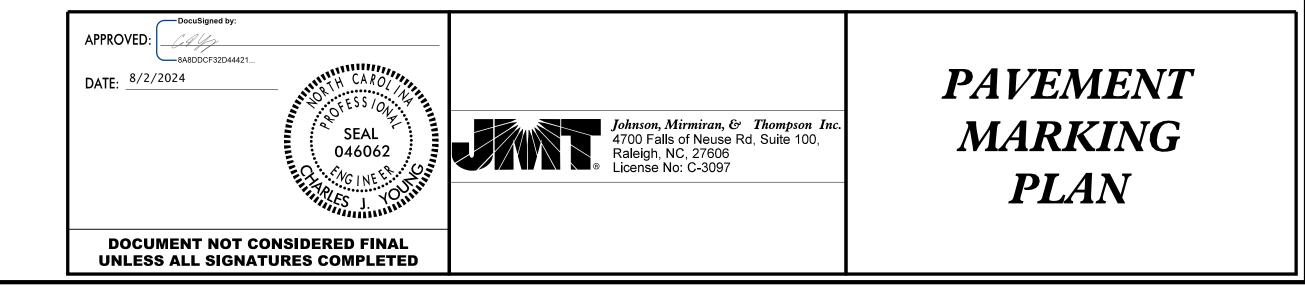
SNOWPLOWABLE MARKER

8/2/2024 pw:\\jmt-

-Y- STA. 11+80 +/--

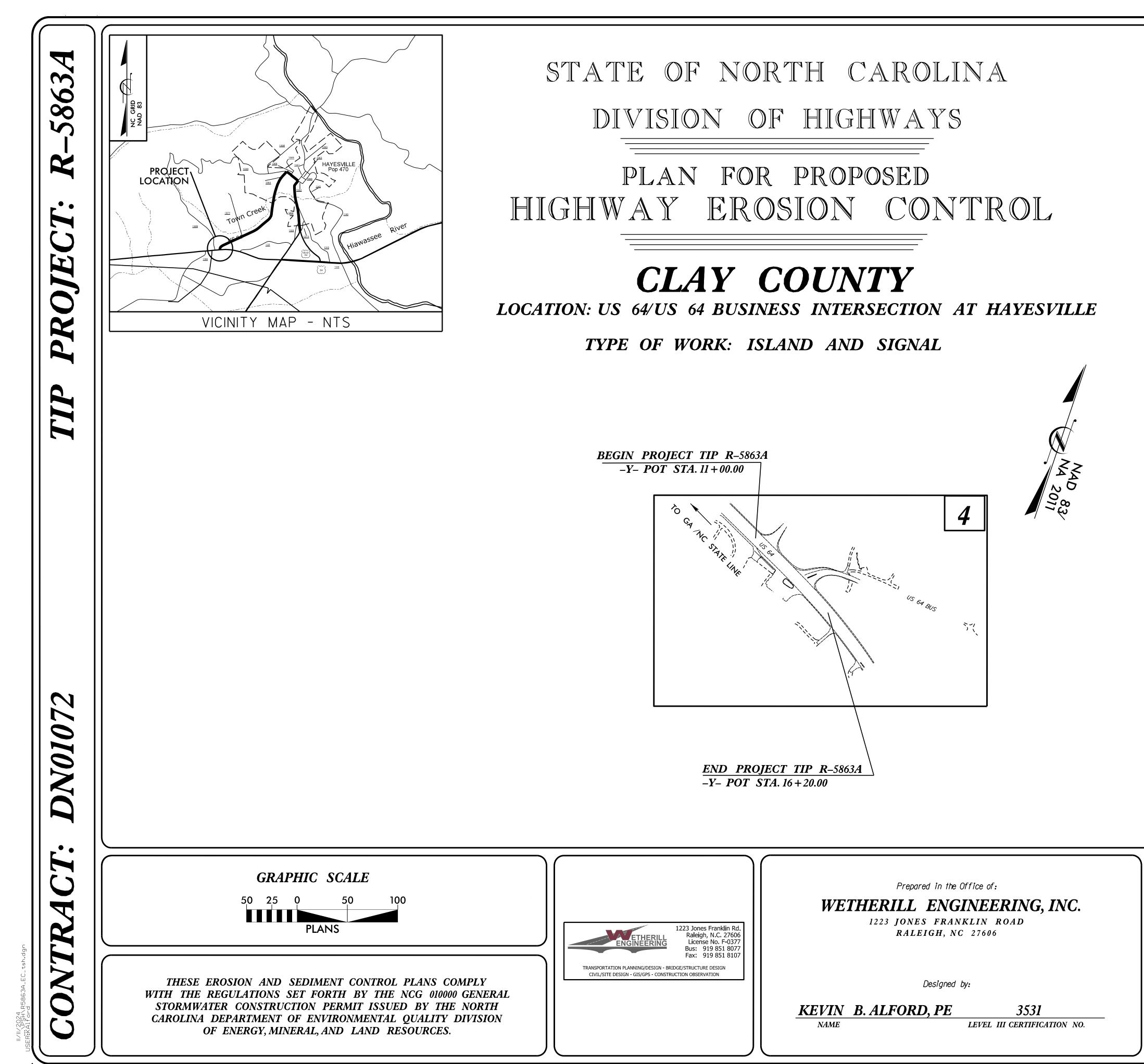
-Y- STA. 11+32 +/- \_\_/ TIE TO EXIST

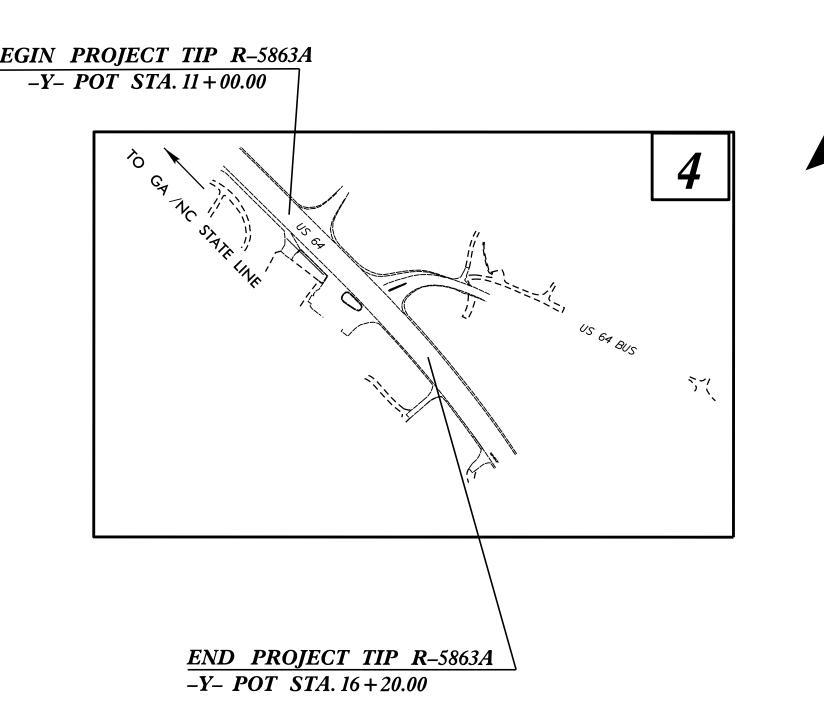




R-5863A PMP-2







STATE	STATE PROJECT REFERENCE NO.		SHEET NO.	TOTAL SHEETS
N.C.	R-5863A		EC-1	
STAT	E PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	
475	16.1.2	N⁄A	PE	
47516.3.2		N⁄A	CONST.	

### THIS PROJECT CONTAINS **EROSION CONTROL PLANS** FOR CLEARING AND **GRUBBING PHASE OF** CONSTRUCTION.

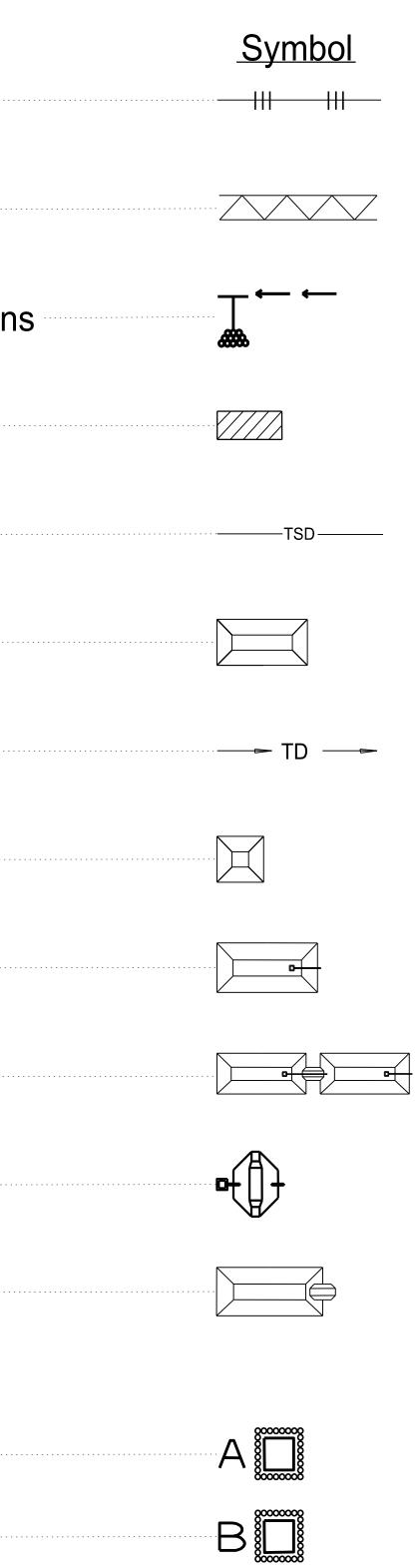
### Roadway Standard Drawings

The "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2024 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

# EROSION & SEDIMENT CONTROL LEGEND

<u>Std. #</u>	Description
1605.01	Temporary Silt Fence
1606.01	Special Sediment Control Fence
1622.01	Temporary Berms and Slope Drain
1630.02	Silt Basin Type B
1630.03	Temporary Silt Ditch
1630.04	Stilling Basin
1630.05	Temporary Diversion
1630.06	Special Stilling Basin
1630.07	Skimmer Basin
1630.08	Tiered Skimmer Basin
1630.09	Earthen Dam with Skimmer
	Infiltration Basin
	Rock Inlet Sediment Trap:
1632.01	Type A
1632.02	Туре В
1632.03	Type C

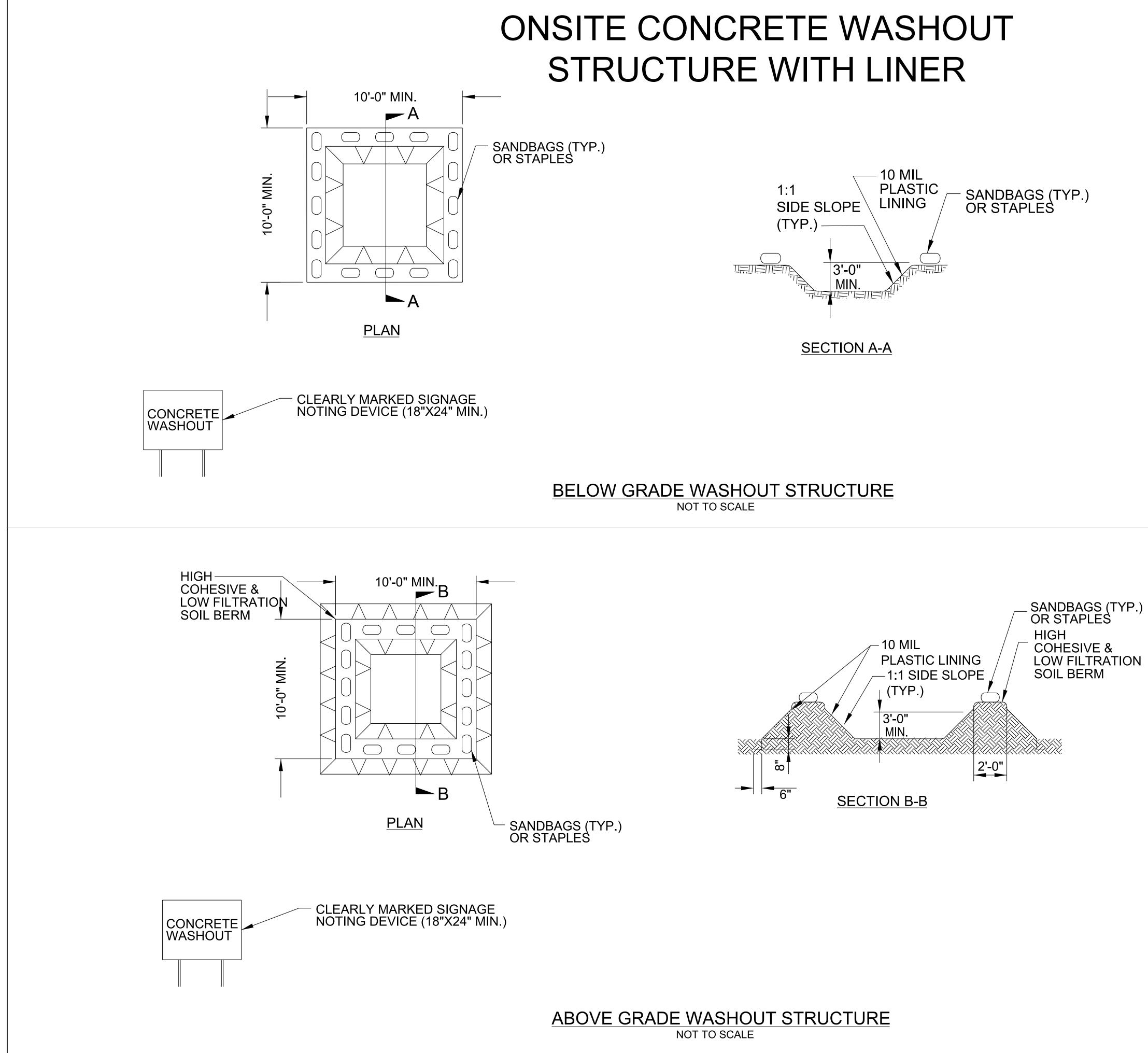
## **DIVISION OF HIGHWAYS** STATE OF NORTH CAROLINA



C

	IROL LEGEND	
<u>Std. #</u> 1633.01	Description Temporary Rock Silt Check Type A	<u>Symbol</u>
		XXXXX
1633.02	Temporary Rock Silt Check Type B	
1633.03	Temporary Rock Silt Check Type A with Excelsior Matting and Flocculant	
1634.01	Temporary Rock Sediment Dam Type A	
1634.02	Temporary Rock Sediment Dam Type B	
1635.01	Rock Pipe Inlet Sediment Trap Type A	
1635.02	Rock Pipe Inlet Sediment Trap Type B	B
1636.01	Excelsior Wattle Check	
1636.01	Excelsior Wattle Check with Flocculant	
1636.01	Coir Fiber Wattle Check	
1636.01	Coir Fiber Wattle Check with Flocculant	
1636.02	Silt Fence Excelsior Wattle Break	<b>├-</b> EW <b>- </b>
	Silt Fence Coir Fiber Wattle Break	<b>F</b> CFW
1636.03	Excelsior Wattle Barrier	EW-EW-EW-
1636.03	Coir Fiber Wattle Barrier	CFW—CFW—CFW—

PROJECT REFERENC	SHEET NO.					
R-5863A	R-5863A					
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER				



	PROJECT REFERENCE NO	).	SHEET NO.
	R-5863A	EC-2A	
	R/W SHEET N		
	ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER
<u>NOTES:</u> 1. ACTUAL LOCATION DETERM	/INED IN FIELD		
2. THE CONCRETE WASHOUT MAINTAINED WHEN THE LIQUII 75% OF THE STRUCTURES CA ADEQUATE HOLDING CAPACIT INCHES OF FREEBOARD.	D AND/OR SOLID RE PACITY TO PROVIDE	ACHE E	S
3.CONCRETE WASHOUT STRU CLEARY MARKED WITH SIGNA			

NOTES: 1. ACTUAL LOCATION DETERMINED IN FIELD

2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.

3.CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARY MARKED WITH SIGNAGE NOTING DEVICE.

## SITE DESCRIPTION

PERIMETER DIKES, SWALES, DITCHES AND

HIGH QUALITY WATER (HQW) ZONES

SLOPES STEEPER THAN 3:1

SLOPES 3:1 TO 4:1

ALL OTHER AREAS WITH SLOPES FLATTER

## DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

## SOIL STABILIZATION TIMEFRAMES

	STABILIZATION TIME	7//	
SLOPES	7 DAYS	NONE	
	7 DAYS	NONE	
	7 DAYS	IF SLOPES Not stee	
		7 DAYS F Length W	
	I4 DAYS		
ER THAN 4:1	14 DAYS	7 DAYS F PERIMETEI	

PROJECT REFERENCE NO	D. SHEET NO.
R-5863A	EC-3
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

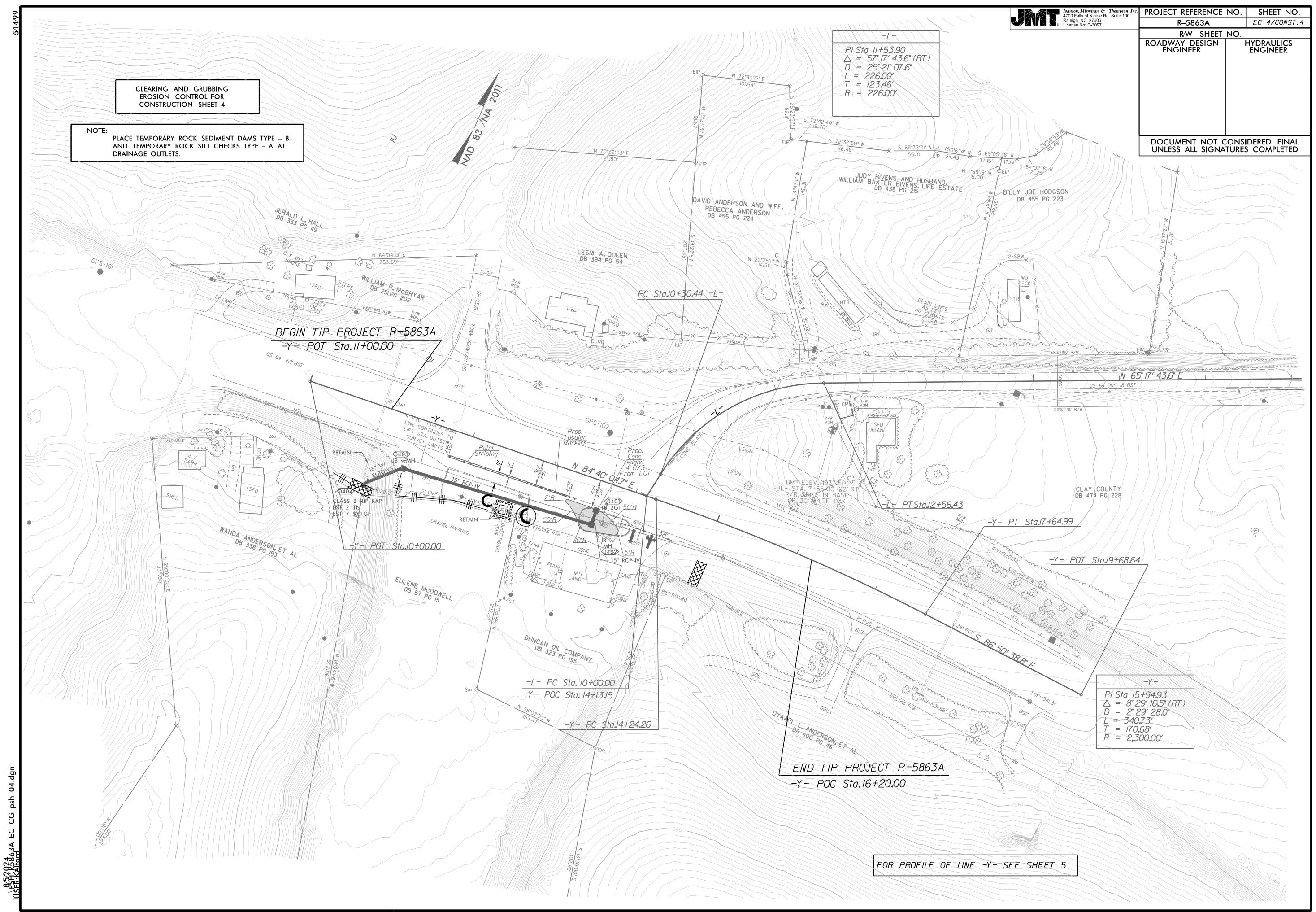
## IMEFRAME EXCEPTIONS

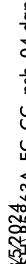
## ES ARE IO'OR LESS IN LENGTH AND ARE EPER THAN 2:1, 14 DAYS ARE ALLOWED.

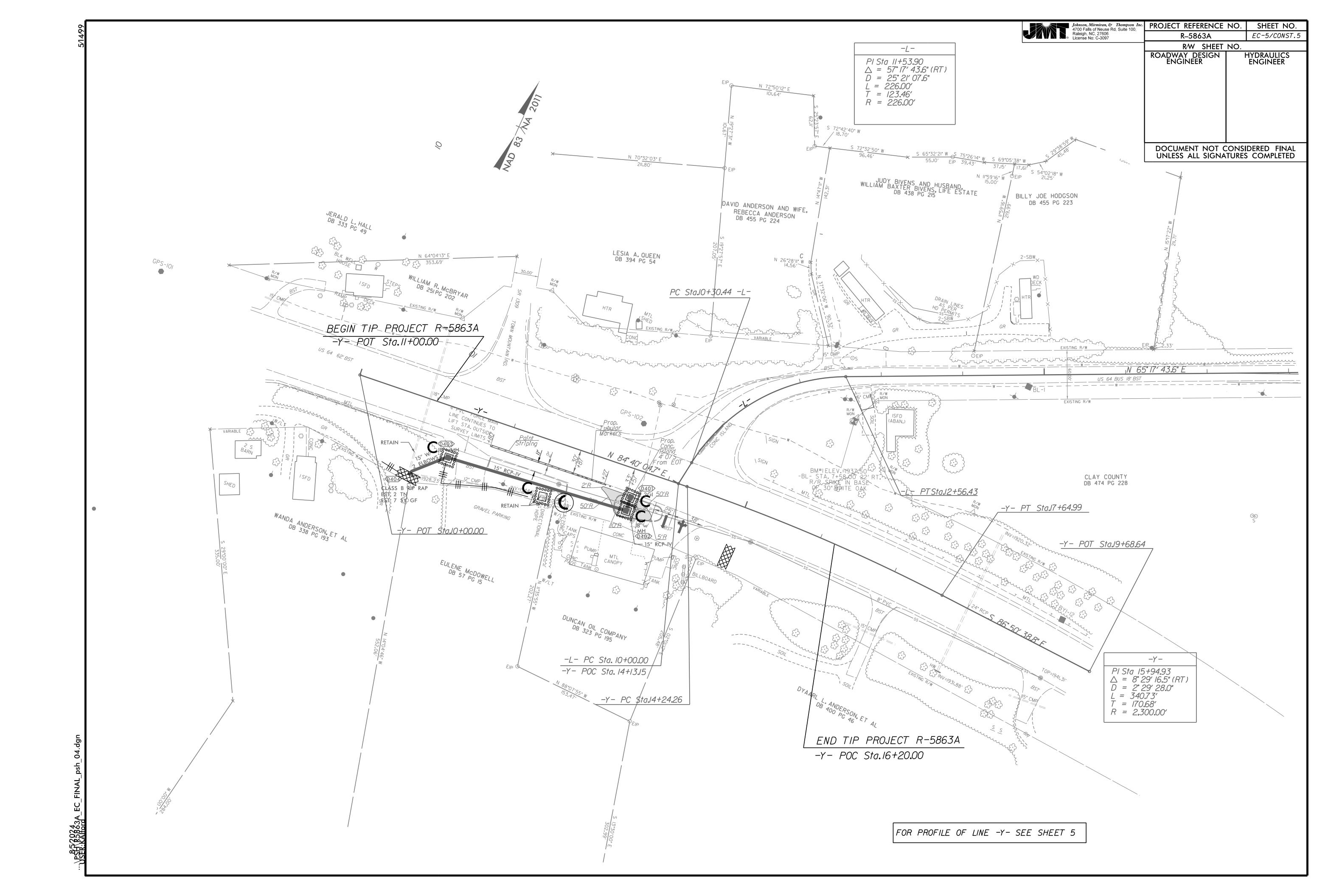
FOR SLOPES GREATER THAN 50' IN WITH SLOPES STEEPER THAN 4:1.

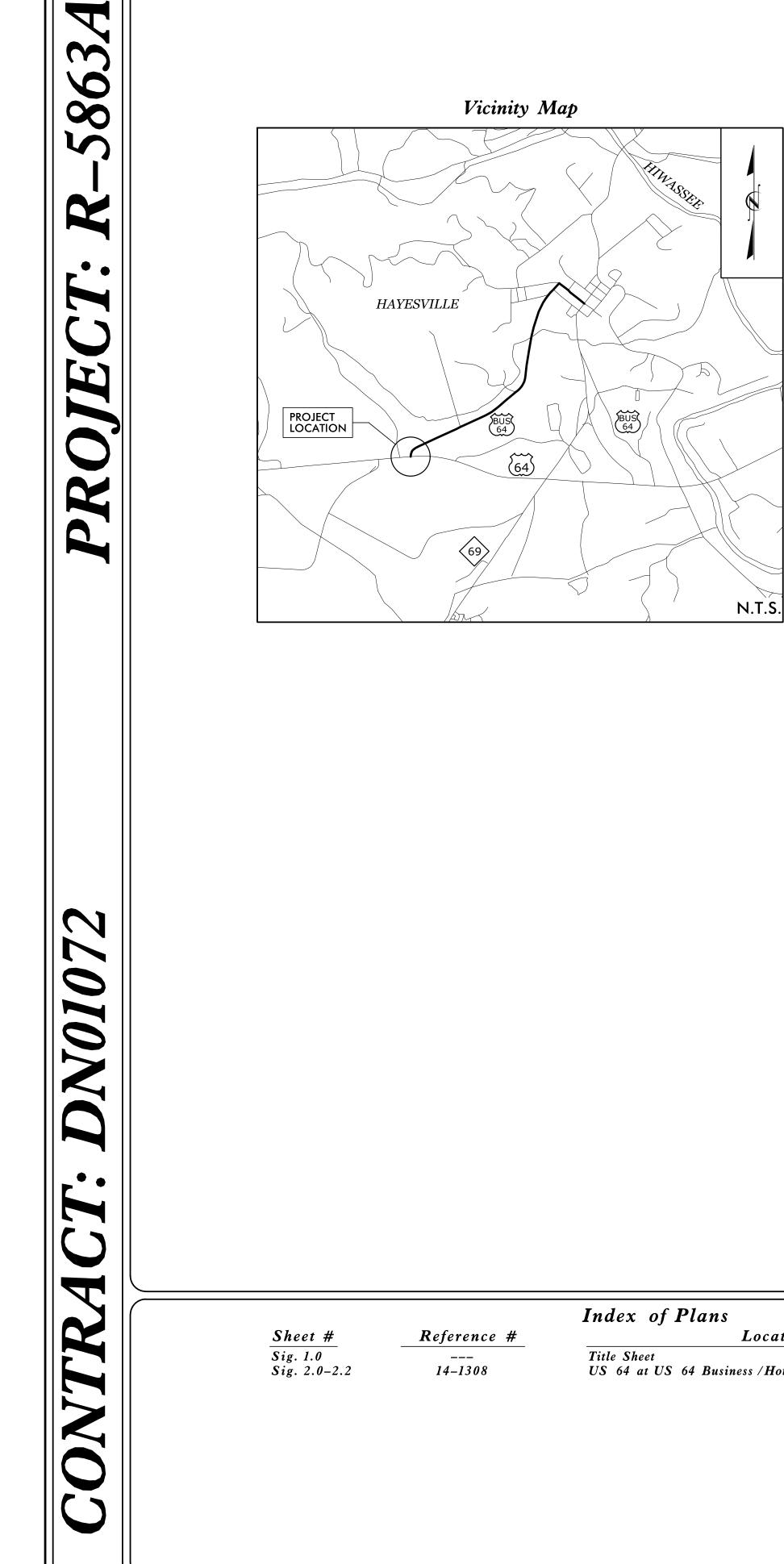
FOR PERIMETER DIKES, SWALES, DITCHES ER SLOPES, AND HQW ZONES

FOR PERIMETER DIKES, SWALES, DITCHES ER SLOPES, AND HQW ZONES



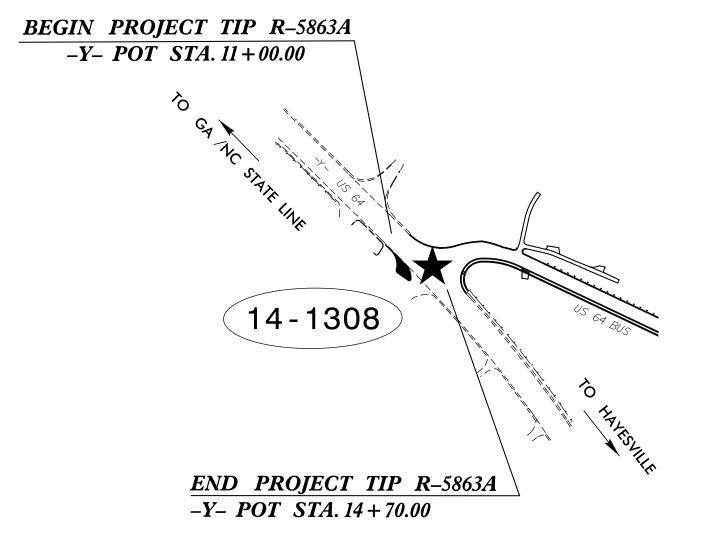




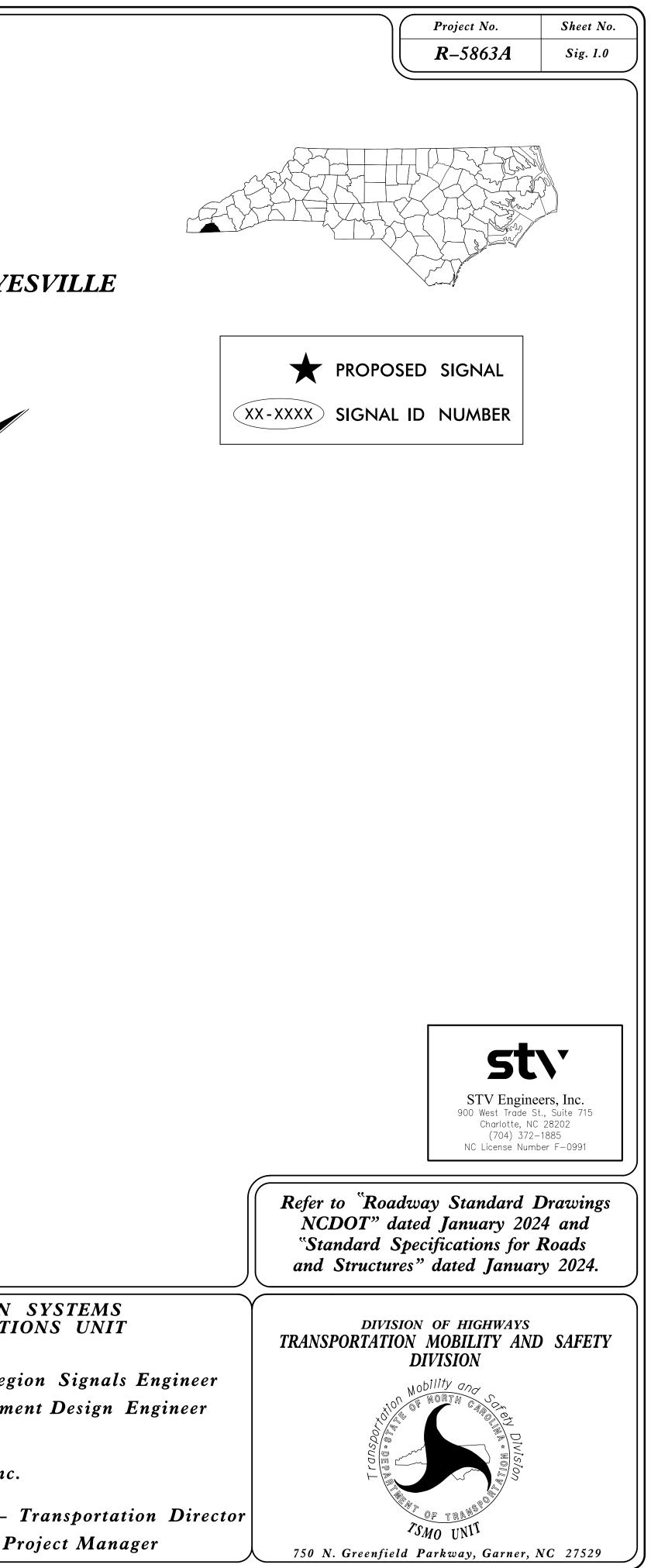


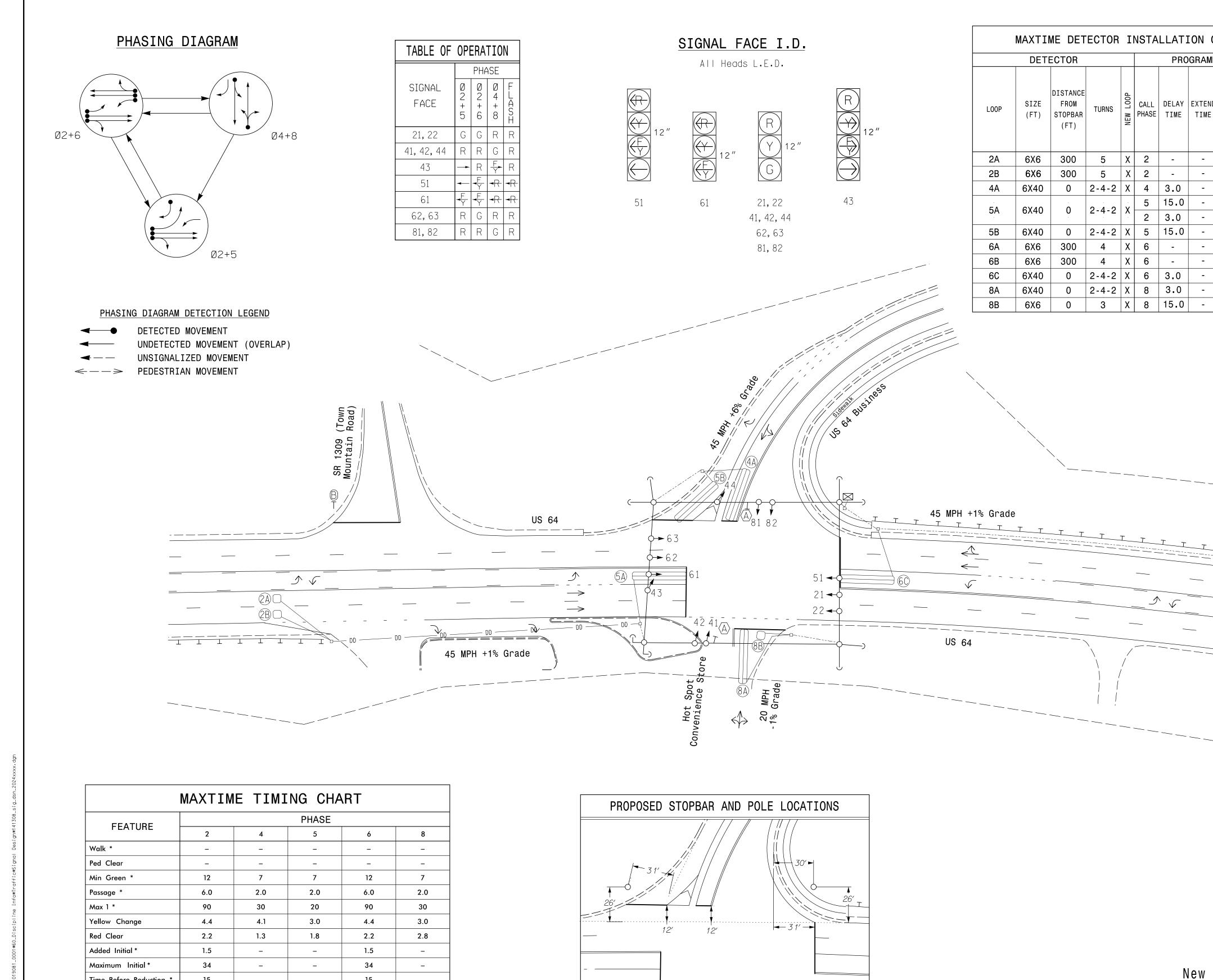
## CLAY COUNTY

LOCATION: US 64/US 64 BUSINESS INTERSECTION IN HAYESVILLE TYPE OF WORK: TRAFFIC SIGNAL



Location/Description	NCDOT TRANSPORTATION MANAGEMENT & OPERAT Contacts:
ss /Hot Spot Convenience Store	R. Nicholas Zinser, P.E. – Western Reg
	Keith M. Mims, P.E. – Signal Equipm
	STV Engineers, Inc
	Contacts: Trent M. Moody, P.E. – Senior Associate –
	Hemang M. Surti, P.E. – Senior I





\_\_\_\_

**→** 12′

- 38' -

**\_\_\_**▼

	MAXTIM	E TIMI	NG CHA	RT						
		PHASE								
FEATURE	2	4	5	6	8					
Walk *	-	-	_	-	-					
Ped Clear	-	_	_	-	-					
Min Green *	12	7	7	12	7					
Passage *	6.0	2.0	2.0	6.0	2.0					
Max 1 *	90	30	20	90	30					
Yellow Change	4.4	4.1	3.0	4.4	3.0					
Red Clear	2.2	1.3	1.8	2.2	2.8					
Added Initial *	1.5	-	-	1.5	-					
Maximum Initial *	34	_	_	34	-					
Time Before Reduction *	15	_	-	15	-					
Time To Reduce *	30	-	-	30	-					
Minimum Gap	3.0	-	-	3.0	-					
Advance Walk	-	_	_	-	-					
Non Lock Detector	_	Х	Х	-	Х					
Vehicle Recall	MIN RECALL	-	—	MIN RECALL	_					
Dual Entry	_	Х	_	_	Х					

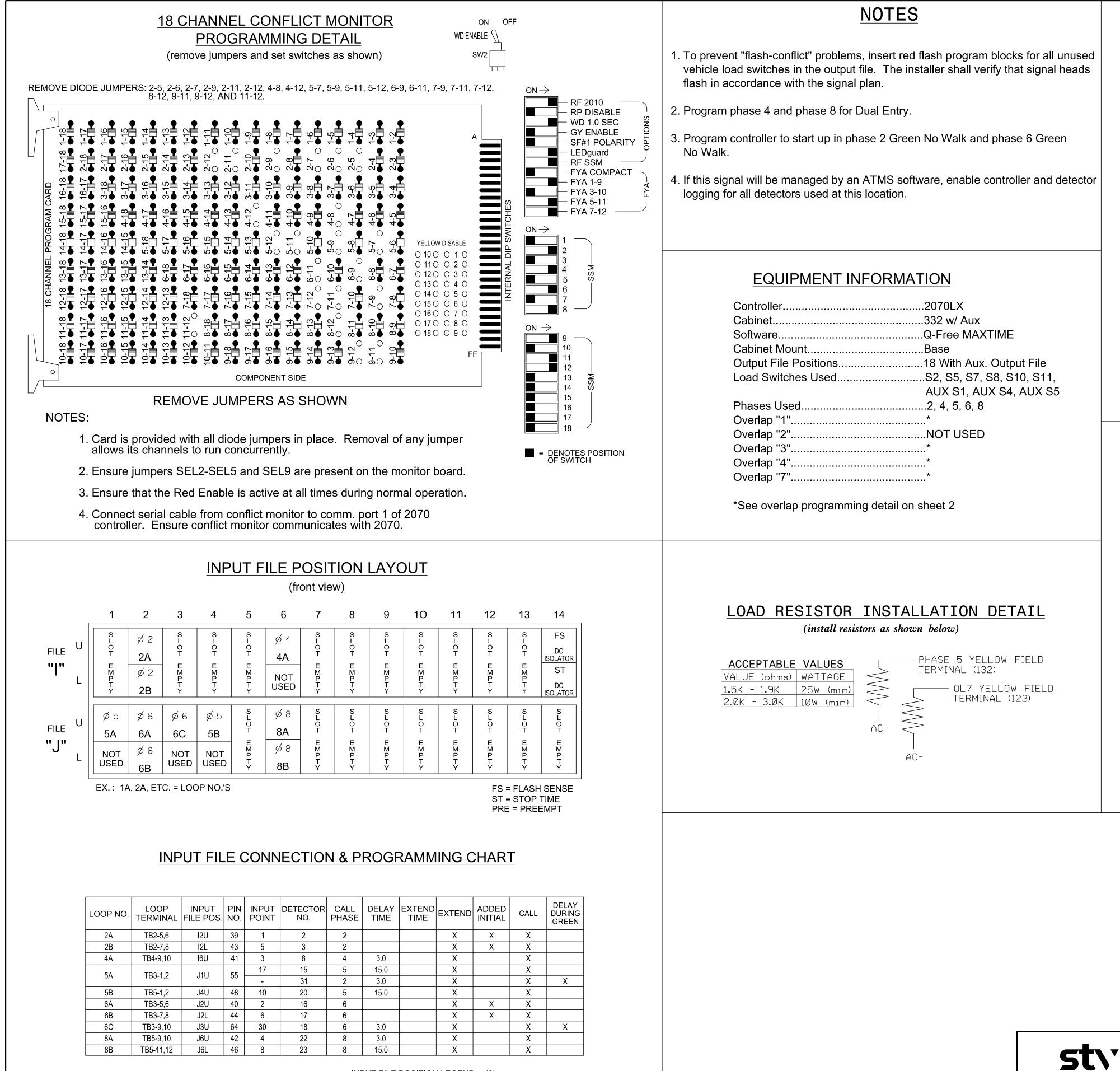
\* These values may be field adjusted. Do not adjust Min Green and Extension times for phases 2 and 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

stv **STV Engineers, Inc.** 900 West Trade St., Suite 715 Charlotte, NC 28202 (704) 372-1885 NC License Number F-0991

														PR		SEFERENCE NO.	SHEET NO. Sig. 2.0
ΤI	ON CI	HAI	RT														
RO	GRAMM	IN	G										Phase	누고식			
			٨L		GREEN							•	y Actua <sup>.</sup> solated	lea			
IY E	EXTEND TIME	EXTEND	ED INITIAL	CALL	DURING G	NEW CARD							NOTES				
			ADDED		DELAY	2			1.	Pof	or to		vay Star	ndara		awinas	
) 0 ) 0	- - - - -	X X X X X X X	X - -		- - - X	X X X X X X X			2.	NCD Spe Str Do nig	OT" d ecific uctur not p pht fl	ated Jo ations es" dat rogram ashing		2024 Jds d Jary for Ion L	and and 2024 Tate unles	"Stando 1. e ss	ırd
-	-	X	Х	X	-	X			3. 4.			-	lagged.		DEOG	sopoo ma	
<u> </u>	-	X X	Х -	X X	- X	X X			4. 5.						•	sence ma to obstr	
, )	-	^ Х		^ Х	-	^ X					iht di iht on		of vehi	icles	s tur	ning	
0	-	Х	-	Х	-	Х			6.	Con	itract	or to c				U+ili+y	,
													per ove conform			Dwer	
					_												
Т	Ŧ																
				-				I									
				$\bigcirc ($	B												
			6	$\Box 6$	À		_	_									
	_			_				=									
								_									
										PRO	POSED		LEGEND			EXISTING	
										<u>- no</u>		Traf	- ic Signal	Head			
										C	)->		ied Signa			N/A	
— .				_						$\frown$	ر 	Siana	Sign I Pole wi	th Guy	V	<b>b</b>	
				_			-			0			le with Si				
													ive Loop D oller & C				
													unction B		I	لد^∟	
													erground ectional D		it ·		_
													ight of W			N/A 	-
											> N/A	Dire	ectional A Guardrail			$\rightarrow$	
											_	"I FFI	TURN YIE				
											$\langle A \rangle$	GREEN"	● Sign (F	710-12	2)	(A)	
										·	 B>	210	⊃″Sign (	(ri-1)	J	B	
								[	Th÷	s nlo	n euror	readar +h	e nlan				
										-	-	rsedes th ed on 4/1			DC	CUMENT NOT	CONSIDERED
N	ew I	n	st	al	18	at:	ior	۱ 								FINAL UNLE SIGNATURES C	SS ALL
	Prepa		for the			s of:						64				SEAL	
1	XU X	10/10	NORI	IN CA	Sale	Ż			110	C / 「	-	it acc/4a	+ 0~~+				01111
	Transport				N NO	Vision						ess/Ho nce St	t Spot ore			SEAI	OVE
			OF T	RANS	12 Profile CTION	-		Divisi	on 14		Clay	County	Науе	esvill	e	04032	• •
75	) N.Green		Desig Pkw			NC 2	27529	PLAN DATE PREPARED		August L. Ari	2024 istondo	REVIEWED BY: REVIEWED BY:	<u>Н.М. Su</u> Т.М. Мо			cuSigned fue	MORIN
		$\overline{1}$	0	-	CALE		40			EVISIONS			INIT.	DATE		nt Moody	8/2/2024
	N			1'	=40		-			· · · · · · · · · · · · · · · · · · ·						signature	DATE
	y y			I	רו	-									310		UJUU FI

PROJECT REFERENCE NO.

SHEET NO.



INPUT FILE POSITION LEGEND: J2L

FILE J

SLOT 2

LOWER -

STV Engineers, Inc.

900 West Trade St., Suite 715

Charlotte, NC 28202

(704) 372–1885

NC License Number F-0991

	PROJECT REFERENCE NO. R-5863A	SHEET NO. Sig. 2.1
SIGNAL HEAD HOOK-UP CHART		

S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	AUX S1	AUX S2	AUX S3	AUX S4	AUX S5	AUX S6
1	2	13	3	4	14	5	6	15	7	8	16	9	10	17	11	12	18
1	2	2 PED	3	4	4 PED	5	6	6 PED	OL7	8	8 PED	OL1	OL2	SPARE	OL3	OL4	SPARE
NU	21,22	NU	NU	41,42 44	NU	★ 51	62,63	NU	<b>★</b> 43	81,82	NU	61 <b>★</b>	NU	NU	★ 51	<b>★</b> 43	NU
·	128			101			134			107			-			A101	
	129			102		*	135		*	108							
-	130			103	-		136			109			-		-		÷
												A121			A114		
					-			-		-		A122	-		A115	A102	
								-				A123			A116	A103	
						133			124								

### NU = Not Used

LOAD SWITCH NO

CMU CHANNEL NO.

PHASE

SIGNAL

HEAD NO

RED

YELLOW

GREEN

RED ARROW

YELLOW

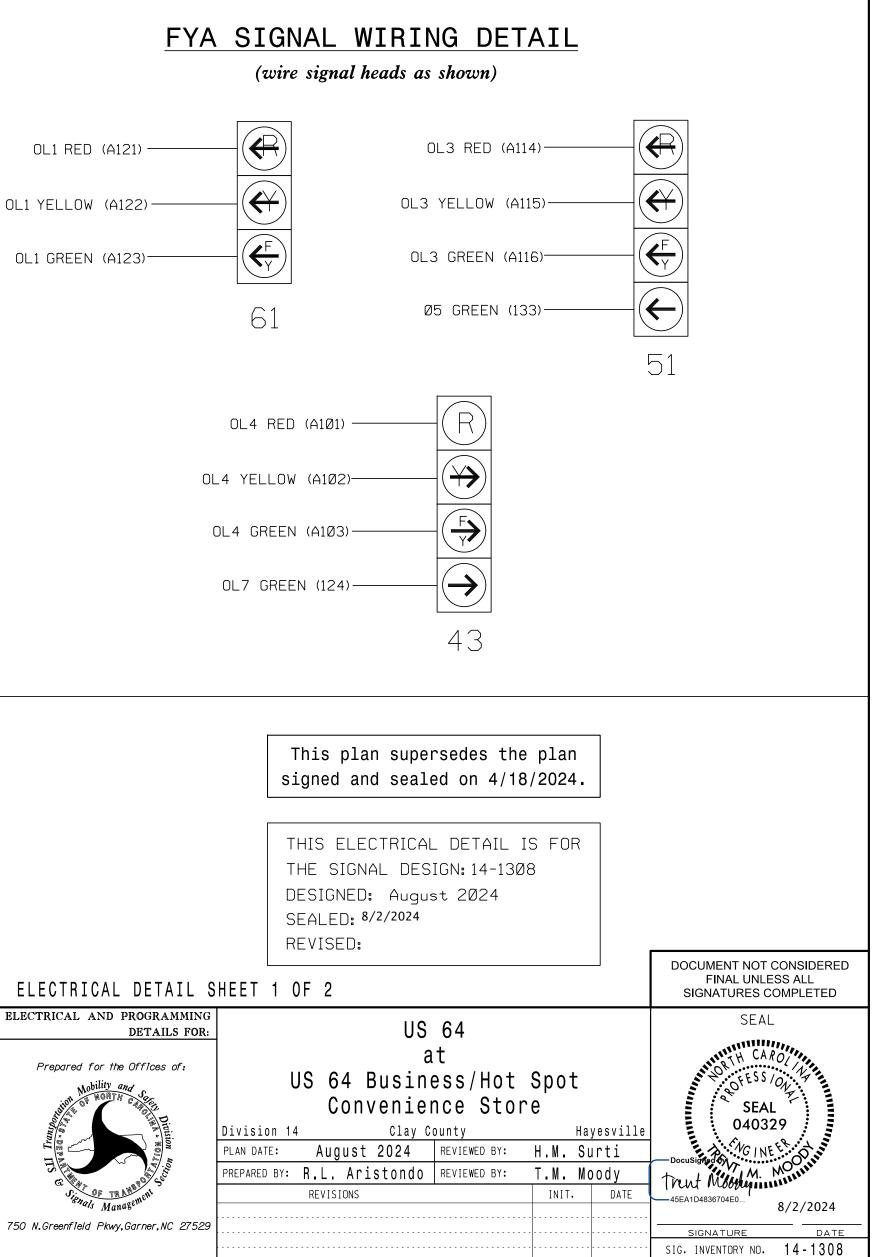
ARROW FLASHING

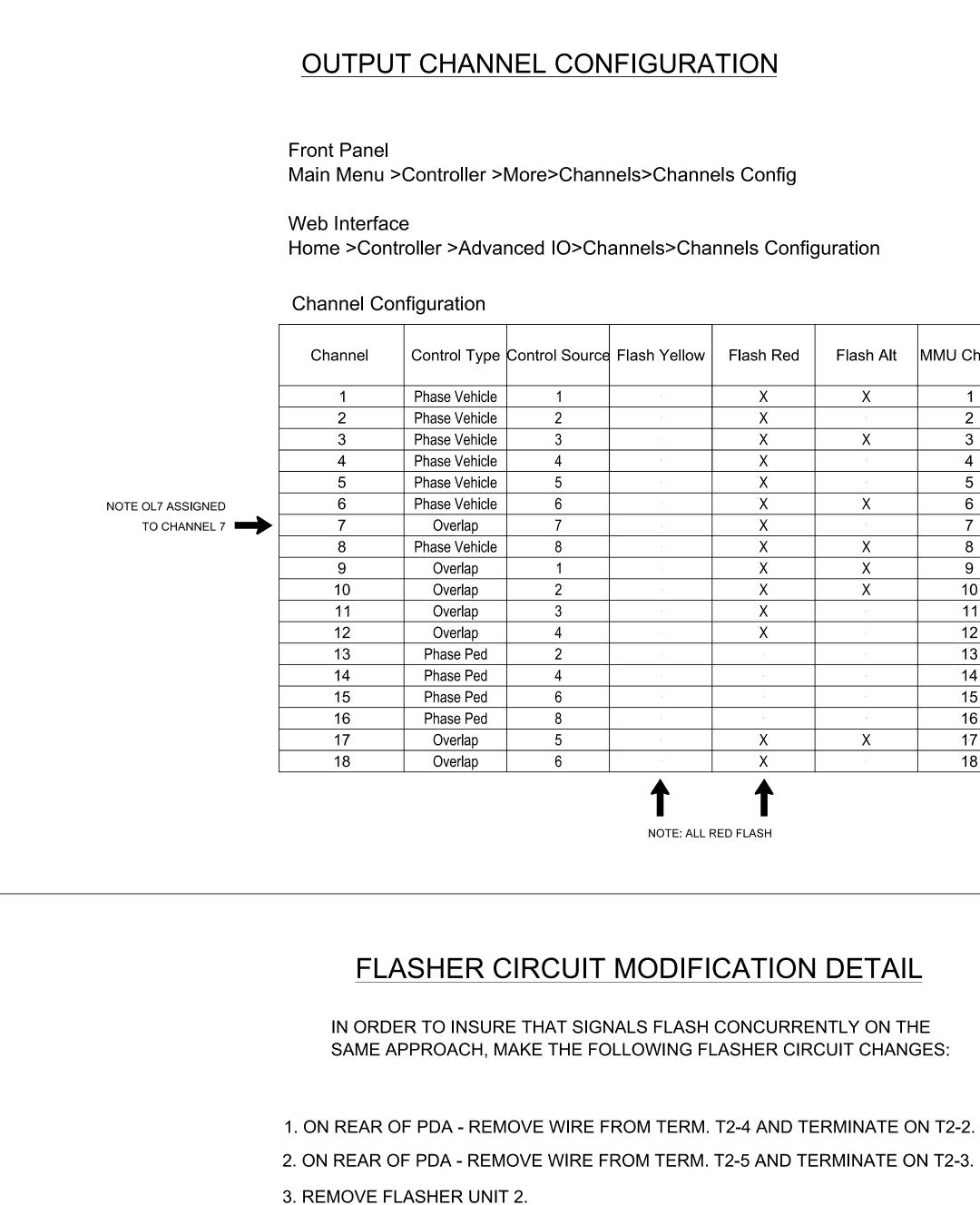
YELLOW ARROW

GREEN

ARROW

\* Denotes install load resistor. See load resistor installation detail this sheet.  $\star$  See pictorial of head wiring in detail this sheet.





THE CHANGES LISTED ABOVE TIES ALL PHASES AND OVERLAPS TO FLASHER UNIT 1.

### MAXTIME STARTUP AND SOFTWARE FLASH **PROGRAMMING DETAIL**

Front Panel Main Menu >Controller >Unit

Web Interface Home >Controller >Unit

Modify parameters as shown below and save changes.

Start Up Parameters StartUp Clearance Hold 6

Unit Flash Parameters All Red Flash Exit Time 6

ed	Flash Alt	MMU Channel
	Х	1
	Х	2 3
		4
		5
	Х	6
		7
	Х	8
	Х	9
	Х	10
		11
		12
		13
		14
		15
		16
	Х	17
		18

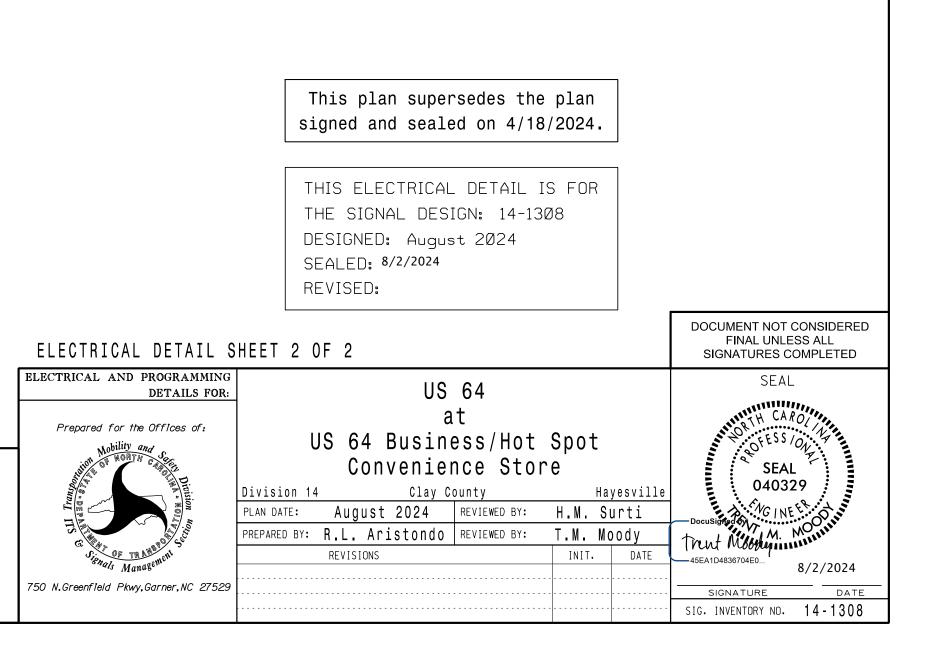
Front Panel

Web Interface Home >Controller >Overlap Configuration >Overlaps

### **Overlap Plan 1**

		l		
Overlap	1	3	4	7
Туре	FYA 4 - Section	FYA 4 - Section	FYA 4 - Section	Normal
Included Phases	2	6	4	5
Modifier Phases	-	5	-	-
Modifier Overlaps	<u>-</u>	÷	7	÷
Trail Green	0	0	0	0
Trail Yellow	0.0	0.0	0.0	0.0
Trail Red	0.0	0.0	0.0	0.0

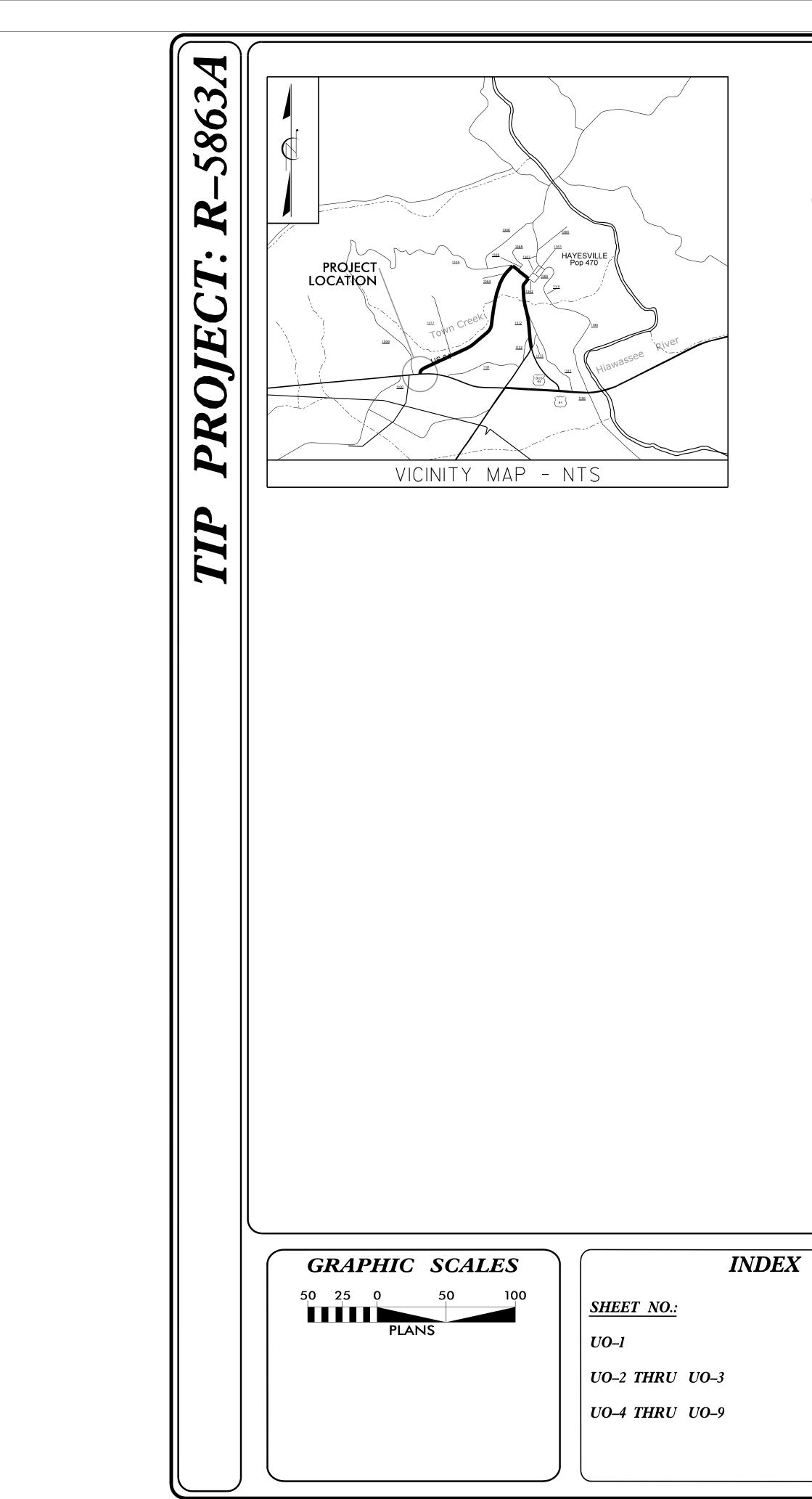




PROJECT REFERENCE NO.	SHEET NO.
R - 5863A	Sig. 2.2

### MAXTIME OVERLAP PROGRAMMING DETAIL

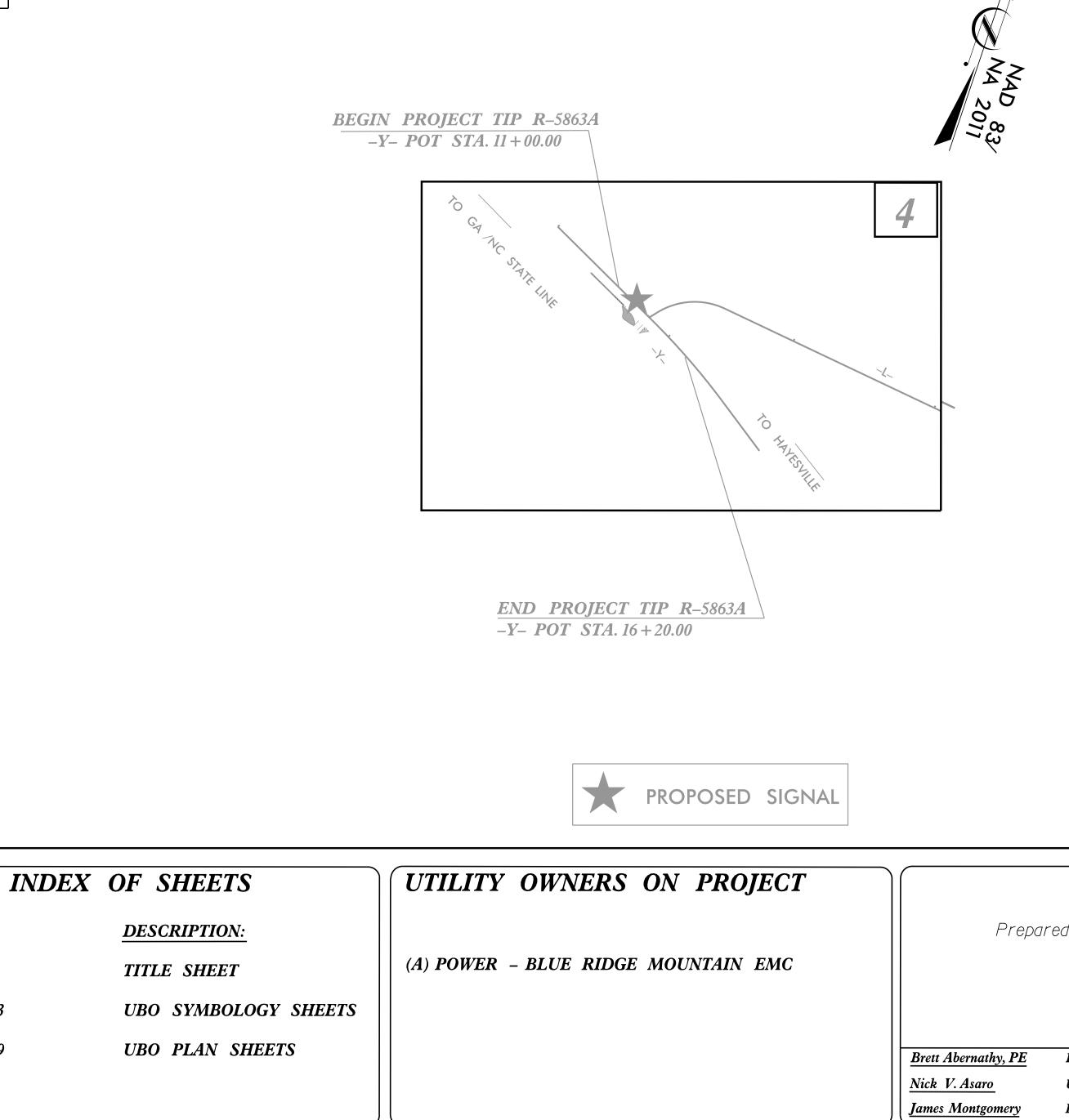
### Main Menu >Controller >Overlap >Overlap Parameters/Overlap Timings



STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

## UTILITIES BY OTHERS PLANS CLAY COUNTY

## LOCATION: US 64 US 64 BUSINESS INTERSECTION AT HAYESVILLE TYPE OF WORK: RELOCATION OF POWER





SHEET NO.

### R-5863A

UO-1

NOTE:

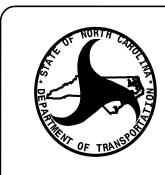
ALL UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR UTILITY WORK SHOWN ON THIS SHEET.



PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION

Prepared in the Office of:

ROADWAY PROJECT MANAGER UTILITY PROJECT MANAGER PROJECT UTILITY COORDINATOR



DIVISION OF HIGHWAYS DIVISION 14

253 WEBSTER ROAD SYLVA, NC 28779

Jared Bond Bob Golding Lynn Kieselhorst DIVISION PROJECT MANAGER DIV UTILITY ENGINEER DIV UTILITY COORDINATOR

## UTILI

## PROPOSED WATER SYMBOLS

Water Line (Sized as Shown)	12" WL
11 <sup>1</sup> ⁄4 Degree Bend	+++
221⁄2 Degree Bend	+*
45 Degree Bend	. <b>∔-</b> ×
90 Degree Bend	ц <b>4</b>
Plug	
Тее	<b>•</b>
Cross	<b>+</b>
Reducer	- <b>)</b>
Gate Valve	GV
Butterfly Valve	- H
Tapping Valve	
Line Stop	•
Line Stop with Bypass	LS/BP
Blow Off	80 • •
Fire Hydrant	PEH .
Relocate Fire Hydrant	
Remove Fire Hydrant	REM FH
Water Meter	• ●
Relocate Water Meter	
Remove Water Meter	REM WM
Water Pump Station	
RPZ Backflow Preventer	
DCV Backflow Preventer	PBEP ► ► ► ► ► ► ► ► ► ► ► ► ► ► ► ► ► ► ►
Relocate RPZ Backflow Preventer	RRPZ

## PROPOSED SEWER SYMBOLS

Gravity Sewer Line (Sized as Shown)	12" SS
Force Main Sewer Line (Sized as Shown)	12" FSS
Manhole (Sized per Note)	
Sewer Pump Station	

REV: 2/1/2012

\_\_\_\_\_

# 

			PROJECT REFERENCE NO.	SHEET NO.
STATE OF NO	ORTH CAROLI		R-5863A	U0-2
DIVISION	OF HIGHWAYS			
ΙΤΙΕς ΡΙΑλ	<b>SHEET S</b>	VMROLS		
	PROPOSED MISCEL	LLANOUS UTILITIES SYMBOLS		
Power Pole		Thrust Block		
Telephone Pole	······	Air Release Valve	AR •	
Joint Use Pole		Utility Vault	UV	
Telephone Pedestal		Concrete Pier	<u></u>	
			SP	
Utility Line by Others (Type as Shown)	PROP O/H POW LINES	Steel Pier		
Trenchless Installation	12" TL INSTALL	Plan Note		
Encasement by Open Cut	24" ENCAS BY OC	Pay Item Note		
Encasement	24" ENCASEMENT		PAY ITEM	

## EXISTING UTILITIES SYMBOLS

Power Pole	*Underground Power Line
Telephone Pole	*Underground Telephone Cable
Joint Use Pole	*Underground Telephone Conduit
Utility Pole •	*Underground Fiber Optics Telephone Cable —————
Utility Pole with Base	*Underground TV Cable
H-Frame Pole	*Underground Fiber Optics TV Cable
Power Transmission Line Tower	*Underground Gas Pipeline
Water Manhole 🚥 🛛	Aboveground Gas Pipeline A/G Gas
Power Manhole	*Underground Water Line
Telephone Manhole	Aboveground Water Line
Sanitary Sewer Manhole	*Underground Gravity Sanitary Sewer Line
Hand Hole for Cable	Aboveground Gravity Sanitary Sewer Line
Power Transformer	*Underground SS Forced Main Line
Telephone Pedestal 🗉	Underground Unknown Utility Line
CATV Pedestal	SUE Test Hole
Gas Valve 🗠 📀	Water Meter
Gas Meter 🔶	Water Valve
Located Miscellaneous Utility Object $\cdots \circ$	Fire Hydrant
Abandoned According to Utility Records	Sanitary Sewer Cleanout
End of Information <b>E.O.I</b> .	

\*For Exis Utility I (Type as Designate (Type as

sting Utilit	ties	
Line Drawn s Shown)	from Record	W
ted Utility s Shown)	Line	W

### **BOUNDARIES AND PROPERTY:**

County Line	
City Line	
Reservation Line Property Line	
Property Line	
Computed Property Corner	——×
Property Monument	
Parcel/Sequence Number (123)	
Existing Fence Line ————————————————————————————————————	—×—
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	
Potential Contamination Area: Soil?	
Known Contamination Area: Water $-\infty$	
Potential Contamination Area: Water - 2	
Contaminated Site: Known or Potential	
BUILDINGS AND OTHER CULTURE:	5
Gas Pump Vent or U/G Tank Cap 0	
Sign	
Well	
Small Mine — ×	
Foundation	
Area Outline	
Cemetery † † Building	
School	
Church	
Dam	
HYDROLOGY:	
Stream or Body of Water	
Hydro, Pool or Reservoir	
Jurisdictional Stream	
Buffer Zone 2 BZ 2	
Flow Arrow	
Disappearing Stream	
Spring	
- L	
Wetland	
Wetland * Proposed Lateral Tail Head Ditch *	$\geq$
Wetland	$\geq$

# RAILRO

### RIGHT

Secondary Primary H Primary H Exist Permo New Pern Vertical Be Existing Ri Existing Ri New Righ New Righ New Righ Concre New Con Concre Existing Co New Con Existing Ec New Tem New Tem 

### **ROADS AND RELATED FEATURES:**

RAILROADS: Note: Not to S	cale *S	S.U.E. = Subsurface Utility Engineering	
Standard Gauge	CSX TRANSPORTATION	Hedge	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
RR Signal Milepost	⊙ MILEPOST 35	Woods Line	
Switch	SWITCH	Orchard	ස් හි හි හි 
RR Abandoned	_++++_	Vineyard	Vineyard
RR Dismantled		EXISTING STRUCTURES:	
		MAJOR:	
RIGHT OF WAY & PROJECT CO	ONTROL:	Bridge, Tunnel or Box Culvert	CONC
Secondary Horiz and Vert Control Point ——	$\blacklozenge$	Bridge Wing Wall, Head Wall and End Wall –	) CONC WW (
Primary Horiz Control Point		MINOR:	
Primary Horiz and Vert Control Point	٠	Head and End Wall	CONC HW
Exist Permanent Easment Pin and Cap ———	$\langle \cdot \rangle$	Pipe Culvert	
New Permanent Easement Pin and Cap ——	$\diamond$	Footbridge	×
Vertical Benchmark		Drainage Box: Catch Basin, DI or JB	СВ
Existing Right of Way Marker	$\bigtriangleup$	Paved Ditch Gutter	
Existing Right of Way Line		Storm Sewer Manhole	S
New Right of Way Line		Storm Sewer	s
New Right of Way Line with Pin and Cap —		UTILITIES:	
New Right of Way Line with		POWER:	
Concrete or Granite R/W Marker		Existing Power Pole	
New Control of Access Line with Concrete C/A Marker		Proposed Power Pole	6
Existing Control of Access		Existing Joint Use Pole	
New Control of Access		Proposed Joint Use Pole	-0-
Existing Easement Line	►	Power Manhole	P
New Temporary Construction Easement –	F	Power Line Tower	$\boxtimes$
New Temporary Drainage Easement	TDE	Power Transformer	$\square$
New Permanent Drainage Easement		U/G Power Cable Hand Hole	
	PDE		

H–Frame Pole ——

### New Permanent Utility Easement - PUE ------\_\_\_\_\_ New Aerial Utility Easement \_\_\_\_\_\_AUE\_\_\_\_\_

Existing Edge of Pavement	
Existing Curb	
Proposed Slope Stakes Cut	<u>C</u>
Proposed Slope Stakes Fill	F
Proposed Curb Ramp	CR
Existing Metal Guardrail	<u> </u>
Proposed Guardrail	<u> </u>
Existing Cable Guiderail	<u> </u>
Proposed Cable Guiderail	
Equality Symbol	$\bullet$
Pavement Removal	
VEGETATION:	
Single Tree	සි
Single Shrub	Ę

### **TELEPHONE**: Existing Telephone Pole —— --Proposed Telephone Pole -0-Telephone Manhole — $\bigcirc$ Telephone Pedestal $\top$ , T U/G Telephone Cable Hand Hole ——— Н<sub>Н</sub> U/G Telephone Conduit LOS D (S.U.E.\*) \_\_\_\_\_\_ U/G Fiber Optics Cable LOS C (S.U.E.\*) - - - T FO - - -

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.\*) \_\_\_\_\_

-	PROJECT REFERENCE NO. R - 5863A
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 Wate
TV: TV: Pedestal	
TV Tower	$\bigtriangledown$
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.*)	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.*	<b>k)</b> ————————————————————————————————————
GAS:	
Gas Valve	◊
Gas Meter	<b>\blacksquare</b>
U/G Gas Line LOS B (S.U.E.*)	G G
U/G Gas Line LOS C (S.U.E.*)	G 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 S
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. Lo	<b>C.</b> <u>UST</u>
A/G Tank; Water, Gas, Oil	
Geoenvironmental Boring	
U/G Test Hole LOS A (S.U.E.*)	
	ls — AATUR
Abandoned According to Utility Record	

•---•

