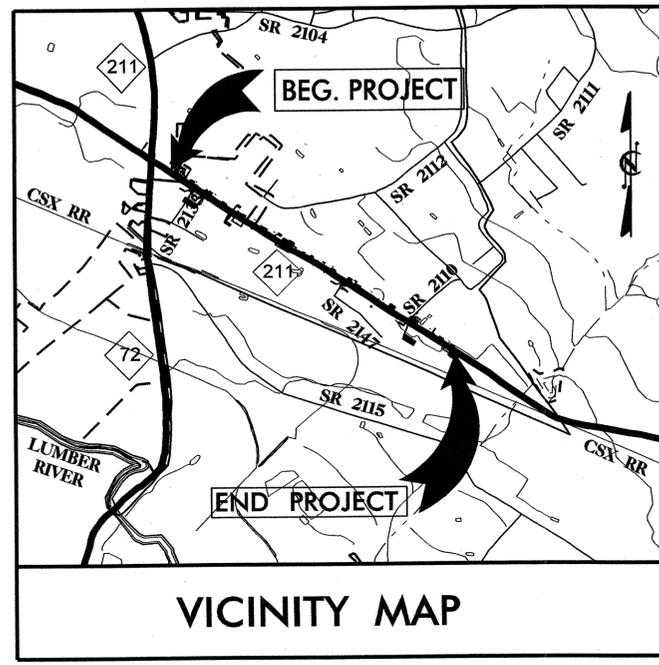


09/08/99

TIP: R-5018

CONTRACT: C201810

See Sheet 1-A For Index of Sheets  
See Sheet 1-B For Conventional Symbols



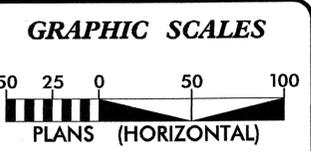
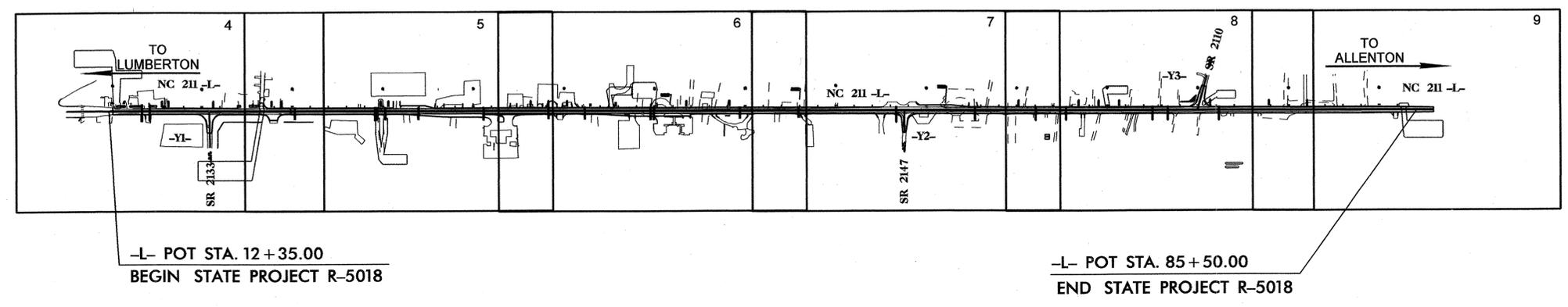
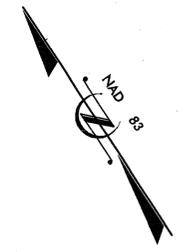
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**ROBESON COUNTY**

LOCATION: NC 211 FROM EAST OF NC 72  
TO EAST OF SNAKE RD. (SR. 2110)

TYPE OF WORK: WIDENING, GRADING, PAVING, AND DRAINAGE

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5018	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
41521.2.1	N/A	PE, R/W	
41521.3.1	N/A	CONST.	



DESIGN DATA

ADT 2000 =	26,300
ADT 2025 =	37,300
DHV =	10 %
D =	55 %
T =	17 % *
V =	50 MPH
* TTST 12%	DUAL 5%

PROJECT LENGTH

LENGTH ROADWAY STATE PROJECT R-5018 =	1.385 MILES
TOTAL LENGTH STATE PROJECT R-5018 =	1.385 MILES

**PARSONS BRINCKERHOFF**  
100 YEARS

2006 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:  
03/01/07

LETTING DATE:  
OCTOBER 21, 2008

DANIEL H. BRIDGES, P.E.  
PROJECT ENGINEER

DAVID B. GOURLEY, P.E.  
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SEAL 023924  
ENGINEER

Signature: Daniel H. Bridges  
7/3/08 P.E.

ROADWAY DESIGN ENGINEER

SEAL 023924  
ENGINEER

Signature: David B. Gourley  
7/3/08 P.E.

DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

P.E.

STATE DESIGN ENGINEER

DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION

APPROVED  
DIVISION ADMINISTRATOR

DATE

# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

## INDEX OF SHEETS

SHEET NO.	SHEET DESCRIPTION
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES AND LIST OF STANDARDS
1B	CONVENTIONAL SYMBOLS
2	TYPICAL SECTIONS
2A	ANCHORAGE FOR FRAMES
3	SUMMARY OF QUANTITIES
3A THRU 3B	DRAINAGE SUMMARY SHEET
3C	EARTHWORK SUMMARY
4 THRU 9	PLAN SHEETS
TCP-1	TRAFFIC CONTROL PLANS
EC-1 THRU EC-7	EROSION CONTROL PLANS
UC-1 THRU UC-11	UTILITY CONSTRUCTION PLANS
UO-1 THRU UO-7	UTILITIES BY OTHERS PLANS
XS TITLE	CROSS SECTION INDEX
X-0	CROSS SECTION SUMMARY SHEET
X-1 THRU X-34	CROSS SECTIONS
2-B	Contaminated Soil

## GENERAL NOTES

GENERAL NOTES: ENGLISH 2006 SPECIFICATIONS  
EFFECTIVE 07-18-06

GRADE LINE:  
GRADING AND SURFACING OR RESURFACING AND WIDENING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. WHERE NO GRADE LINES ARE SHOWN, THE PROFILES SHOWN DENOTE THE TOP ELEVATION OF THE EXISTING PAVEMENT ALONG THE CENTER LINE OF SURVEY ON WHICH THE PROPOSED RESURFACING WILL BE PLACED. GRADE LINES MAY BE ADJUSTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

CLEARING:

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II  
THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE AREAS IN THE PLANS DESIGNATED SAFETY CLEARING. THE LIMITS ARE AS SHOWN AND THE CLEARING AND GRUBBING IS CONSIDERED A PART OF THE LUMP SUM ITEM FOR CLEARING AND GRUBBING.

SHOULDER CONSTRUCTION:

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

SIDE ROADS:

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

DRIVEWAYS:

DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAILS IN PLANS USING 3' RADII OR RADII AS SHOWN ON THE PLANS. LOCATIONS OF DRIVES WILL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

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 City of Lumberton (Power + Water Sewer)  
Process Energy, AT+T, Time Warner Cable, DeltaCom,  
Palmetto Net, Piedmont Natural Gas

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

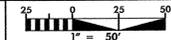
RIGHT-OF-WAY MARKERS:

ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY CONTRACT.

## ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" HIGHWAY DESIGN BRANCH - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JULY 18, 2008 AND THE LATEST REVISION THERETO ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS

STD NO.	TITLE
200.02	Method of Clearing - Method II
225.02	Guide for Grading Subgrade - Secondary and Local
225.04	Method of Obtaining Superelevation - Two Lane Pavement
225.06	Method of Grading Sight Distance at Intersections
300.01	Method of Pipe Installation - Method 'A'
310.10	Driveway Pipe Construction
560.01	Method of Shoulder Construction - High Side of Superelevated Curve - Method I
654.01	Pavement Repairs
806.01	Concrete Right-of-Way Marker
806.02	Granite Right-of-Way Marker
816.04	Markers for Drainage Structure and Concrete Pad
840.00	Concrete Base Pad for Drainage Structures
840.17	Concrete Median Drop Inlet Type 'A' - 12" thru 72" Pipe
840.18	Concrete Median Drop Inlet Type 'B' - 12" thru 72" Pipe
840.19	Concrete Median Drop Inlet Type 'D' - 12" thru 72" Pipe
840.24	Frames and Narrow Slot Sag Grates
840.26	Brick Median Drop Inlet Type 'A' - 12" thru 72" Pipe
840.27	Brick Median Drop Inlet Type 'B' - 12" thru 72" Pipe
840.28	Brick Median Drop Inlet Type 'D' - 12" thru 72" Pipe
840.45	Precast Drainage Structure
840.66	Drainage Structure Steps
840.71	Concrete and Brick Pipe Plug
840.72	Pipe Collar
846.01	Concrete Curb, Gutter and Curb Gutter
876.02	Guide for Rip Rap at Pipe Outlets
1605.01	Temporary Silt Fence
1606.01	Special Sediment Control Fence
1622.01	Guide for Temporary Berms and Slope Drains
1630.02	Silt Basin Type 'B'
1632.03	Rock Inlet Sediment Trap Type 'C'
1633.02	Temporary Rock Silt Check Type 'B'
1635.02	Rock Pipe Inlet Sediment Trap Type 'A'

PROJECT REFERENCE NO. <b>R-5018</b>	SHEET NO. <b>1A</b>
R / W SHEET NO.	
	
	
	

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

\*S.U.E = SUBSURFACE UTILITY ENGINEER

# CONVENTIONAL SYMBOLS

## ROADS & RELATED ITEMS

Edge of Pavement	-----
Curb	-----
Prop. Slope Stakes Cut	----- <sup>C</sup>
Prop. Slope Stakes Fill	----- <sup>F</sup>
Prop. Woven Wire Fence	○-----○
Prop. Chain Link Fence	□-----□
Prop. Barbed Wire Fence	◇-----◇
Prop. Wheelchair Ramp	⊕ <sup>WCR</sup>
Curb Cut for Future Wheelchair Ramp	⊕ <sup>CCFR</sup>
Exist. Guardrail	-----
Prop. Guardrail	-----
Equality Symbol	⊕
Pavement Removal	⊗

## RIGHT OF WAY

Baseline Control Point	◆
Existing Right of Way Marker	△
Exist. Right of Way Line w/Marker	-----△-----
Prop. Right of Way Line with Proposed	-----▲-----
R/W Marker (Iron Pin & Cap)	▲
Prop. Right of Way Line with Proposed	-----▲-----
(Concrete or Granite) R/W Marker	⊕
Exist. Control of Access Line	⊕ <sup>C</sup>
Prop. Control of Access Line	⊕ <sup>C</sup>
Exist. Easement Line	----- <sup>E</sup> -----
Prop. Temp. Construction Easement Line	----- <sup>E</sup> -----
Prop. Temp. Drainage Easement Line	----- <sup>TDE</sup> -----
Prop. Perm. Drainage Easement Line	----- <sup>PDE</sup> -----

## HYDROLOGY

Stream or Body of Water	-----
River Basin Buffer	----- <sup>RBB</sup> -----
Flow Arrow	→
Disappearing Stream	-----
Spring	⊕
Swamp Marsh	⊕
Shoreline	-----
Falls, Rapids	-----
Prop Lateral, Tail, Head Ditches	----- <sup>FLW</sup> -----

## STRUCTURES

<b>MAJOR</b>	
Bridge, Tunnel, or Box Culvert	----- <sup>CONC</sup> -----
Bridge Wing Wall, Head Wall and End Wall	⊕ <sup>CONC WW</sup>

<b>MINOR</b>	
Head & End Wall	----- <sup>CONC HW</sup> -----
Pipe Culvert	=====
Footbridge	-----
Drainage Boxes	□ <sup>CB</sup>
Paved Ditch Gutter	-----

## UTILITIES

Exist. Pole	•
Exist. Power Pole	•
Prop. Power Pole	○
Exist. Telephone Pole	○
Prop. Telephone Pole	○
Exist. Joint Use Pole	○
Prop. Joint Use Pole	○
Telephone Pedestal	⊕
UG Telephone Cable Hand Hold	⊕
Cable TV Pedestal	⊕
UG TV Cable Hand Hold	⊕
UG Power Cable Hand Hold	⊕
Hydrant	⊕
Satellite Dish	⊕
Exist. Water Valve	⊕
Sewer Clean Out	⊕
Power Manhole	⊕
Telephone Booth	⊕
Cellular Telephone Tower	⊕
Water Manhole	⊕
Light Pole	⊕
H-Frame Pole	⊕
Power Line Tower	⊕
Pole with Base	⊕
Gas Valve	⊕
Gas Meter	⊕
Telephone Manhole	⊕
Power Transformer	⊕
Sanitary Sewer Manhole	⊕
Storm Sewer Manhole	⊕
Tank; Water, Gas, Oil	⊕
Water Tank With Legs	⊕
Traffic Signal Junction Box	⊕
Fiber Optic Splice Box	⊕
Television or Radio Tower	⊕
Utility Power Line Connects to Traffic Signal Lines Cut Into the Pavement	----- <sup>TS</sup> -----

Recorded Water Line	----- <sup>W</sup> -----
Designated Water Line (S.U.E.*)	----- <sup>W</sup> -----
Sanitary Sewer	----- <sup>SS</sup> -----
Recorded Sanitary Sewer Force Main	----- <sup>FSS</sup> -----
Designated Sanitary Sewer Force Main(S.U.E.*)	----- <sup>FSS</sup> -----
Recorded Gas Line	----- <sup>G</sup> -----
Designated Gas Line (S.U.E.*)	----- <sup>G</sup> -----
Storm Sewer	----- <sup>S</sup> -----
Recorded Power Line	----- <sup>P</sup> -----
Designated Power Line (S.U.E.*)	----- <sup>P</sup> -----
Recorded Telephone Cable	----- <sup>T</sup> -----
Designated Telephone Cable (S.U.E.*)	----- <sup>T</sup> -----
Recorded U/G Telephone Conduit	----- <sup>TC</sup> -----
Designated U/G Telephone Conduit (S.U.E.*)	----- <sup>TC</sup> -----
Unknown Utility (S.U.E.*)	----- <sup>UTL</sup> -----
Recorded Television Cable	----- <sup>TV</sup> -----
Designated Television Cable (S.U.E.*)	----- <sup>TV</sup> -----
Recorded Fiber Optics Cable	----- <sup>FO</sup> -----
Designated Fiber Optics Cable (S.U.E.*)	----- <sup>FO</sup> -----
Exist. Water Meter	⊕
U/G Test Hole (S.U.E.*)	⊕
Abandoned According to U/G Record	ATTUR
End of Information	E.O.I.

## BOUNDARIES & PROPERTIES

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Property Line Symbol	⊕
Exist. Iron Pin	⊕
Property Corner	⊕
Property Monument	⊕
Property Number	⊕
Parcel Number	⊕
Fence Line	----- <sup>WW &amp; ISBW</sup> -----
Existing Wetland Boundaries	----- <sup>WLB</sup> -----
High Quality Wetland Boundary	----- <sup>HQ WLB</sup> -----
Medium Quality Wetland Boundaries	----- <sup>MQ WLB</sup> -----
Low Quality Wetland Boundaries	----- <sup>LQ WLB</sup> -----
Proposed Wetland Boundaries	----- <sup>WLB</sup> -----
Existing Endangered Animal Boundaries	----- <sup>EAB</sup> -----
Existing Endangered Plant Boundaries	----- <sup>EPB</sup> -----

## BUILDINGS & OTHER CULTURE

Buildings	⊕
Foundations	⊕
Area Outline	⊕
Gate	⊕
Gas Pump Vent or U/G Tank Cap	⊕
Church	⊕
School	⊕
Park	⊕
Cemetery	⊕
Dam	⊕
Sign	⊕
Well	⊕
Small Mine	⊕
Swimming Pool	⊕

## TOPOGRAPHY

Loose Surface	-----
Hard Surface	-----
Change in Road Surface	-----
Curb	-----
Right of Way Symbol	R/W
Guard Post	⊕
Paved Walk	-----
Bridge	-----
Box Culvert or Tunnel	-----
Ferry	-----
Culvert	-----
Footbridge	-----
Trail, Footpath	-----
Light House	⊕

## VEGETATION

Single Tree	⊕
Single Shrub	⊕
Hedge	-----
Woods Line	-----
Orchard	⊕
Vineyard	⊕

## RAILROADS

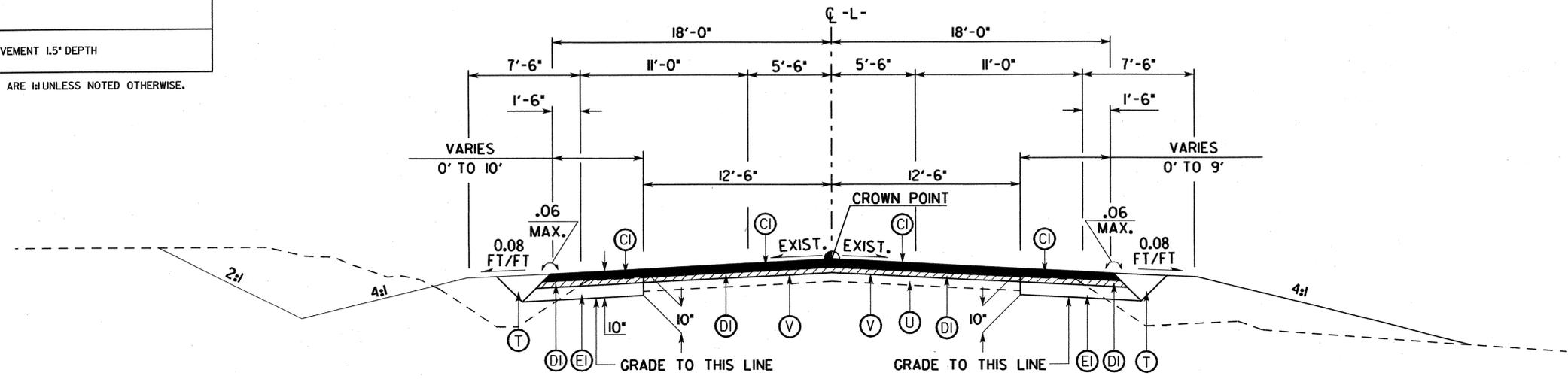
Standard Gauge	-----
RR Signal Milepost	⊕
Switch	⊕

# PAVEMENT SCHEDULE

CI	PROPOSED APPROXIMATELY 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS PER SQ. YARD IN EACH OF 2 LAYERS
DI	PROPOSED APPROXIMATELY 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I9.0B, AT AN AVERAGE RATE OF 285 LBS PER SQ. YARD IN ONE LAYER
EI	PROPOSED APPROXIMATELY 4.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 513 LBS PER SQ. YARD IN ONE LAYER
RI	8"X12" CONCRETE CURB NCDOT STD 846.01
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V	MILLING BITUMINOUS PAVEMENT 1.5" DEPTH

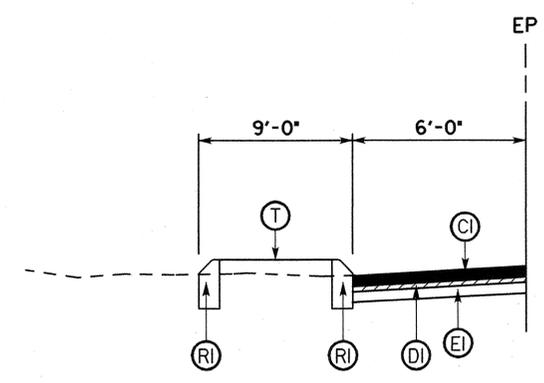
NOTE: ALL PAVEMENT EDGE SLOPES ARE 1:1 UNLESS NOTED OTHERWISE.

PROJECT REFERENCE NO. <b>R-5018</b>	SHEET NO. <b>2</b>
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



## TYPICAL SECTION No. 1

-L- STA. 12+57.80 TO 82+00.00  
 -L- STA. 82+00 TO PROJECT END TAPER TO EXISTING



## PARTIAL TYPICAL SECTION No. 1A

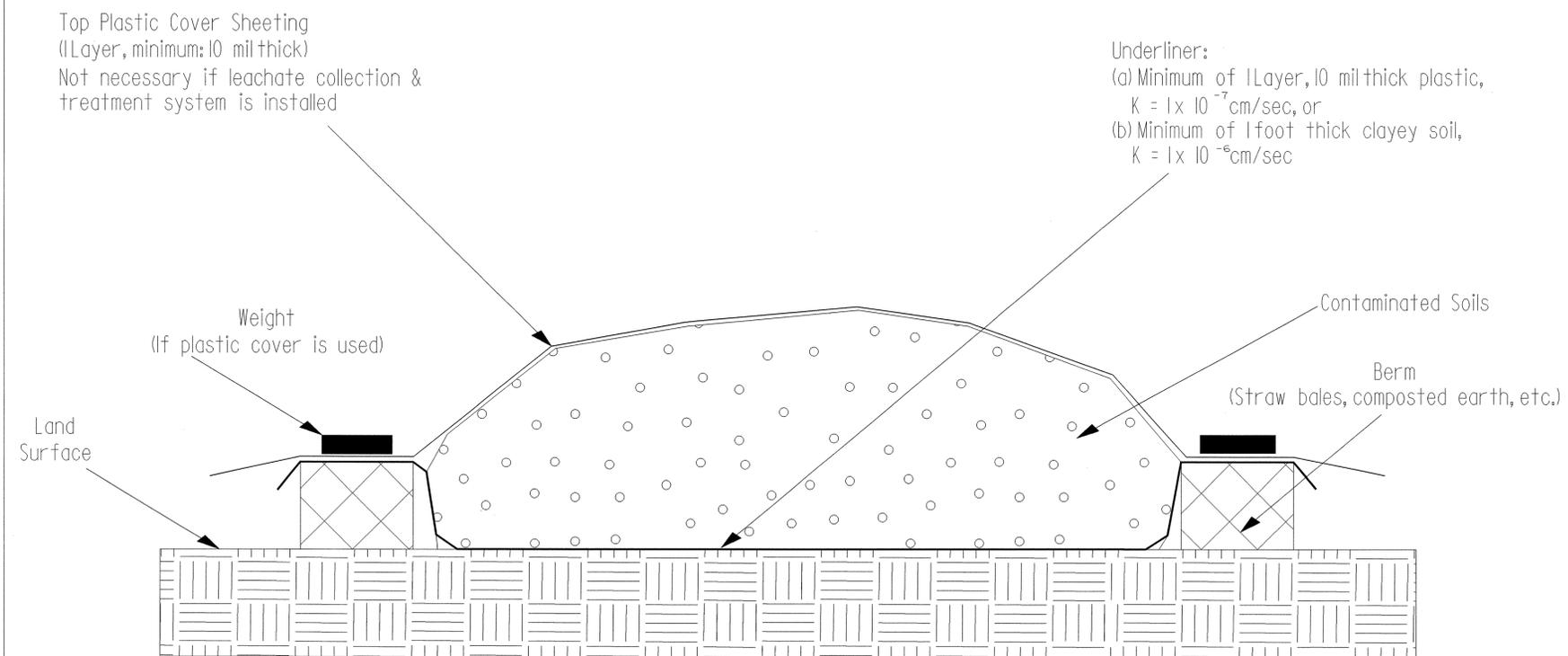
USE IN CONJUNCTION WITH TYPICAL SECTION NO. 1  
 -L- STA. 12+80.50 TO 13+27.50  
 -L- STA. 13+51.50 TO 14+12.00  
 -L- STA. 14+57.50 TO 15+00.00



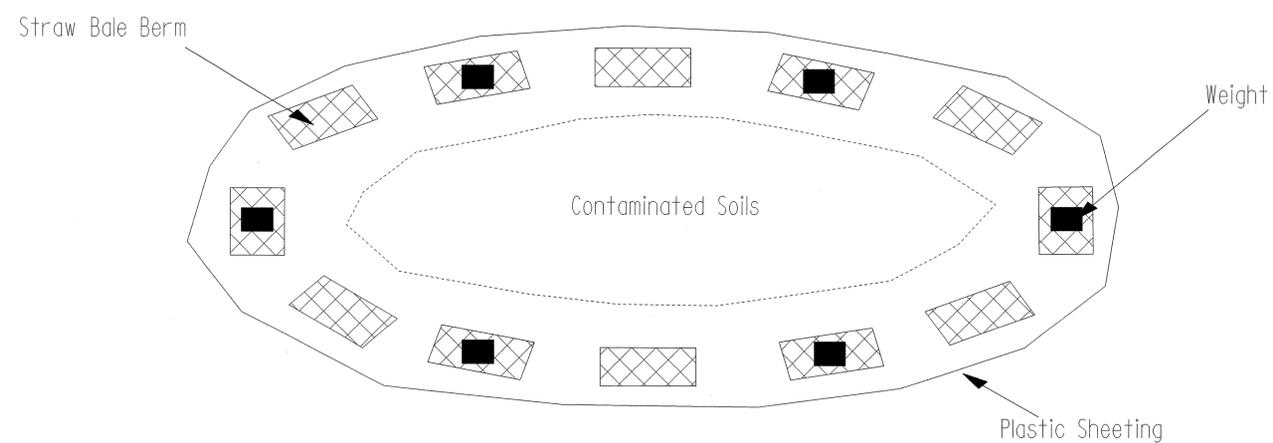
<b>PROJECT REFERENCE NO.</b>	<b>SHEET</b>
R-5018	2-B

## Detail for Temporary Containment of Petroleum Contaminated Soil

### Cross-Section View



### Map View



STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS  
ROADWAY SUMMARY OF QUANTITIES FOR CONTRACT - C201810

ItemNumber	Sec #	Quantity	Unit	Description
0000100000-N	800	Lump Sum		MOBILIZATION
0001000000-E	200	Lump Sum		CLEARING & GRUBBING .. ACRE(S)
0008000000-E	200	1	ACR	SUPPLEMENTARY CLEARING & GRUBBING
0022000000-E	225	10,100	CY	UNCLASSIFIED EXCAVATION
0156000000-E	250	140	SY	REMOVAL OF EXISTING ASPHALT PAVEMENT
0192000000-N	260	3.5	HR	PROOF ROLLING
0255000000-E	SP	100	TON	GENERIC GRADING ITEM EXCAVATION AND STOCKPILING OF CONTAMINATED SOIL
0318000000-E	300	1,160	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRS
0344000000-E	310	2,480	LF	18" SIDE DRAIN PIPE
0345000000-E	310	84	LF	24" SIDE DRAIN PIPE
0366000000-E	310	32	LF	15" RC PIPE CULVERTS, CLASS III
0372000000-E	310	860	LF	18" RC PIPE CULVERTS, CLASS III
0378000000-E	310	312	LF	24" RC PIPE CULVERTS, CLASS III
0384000000-E	310	132	LF	30" RC PIPE CULVERTS, CLASS III
0390000000-E	310	272	LF	36" RC PIPE CULVERTS, CLASS III
0995000000-E	340	3,440	LF	PIPE REMOVAL
1011000000-N	500	Lump Sum		FINE GRADING
1297000000-E	607	23,980	SY	MILLING ASPHALT PAVEMENT, *** DEPTH (1-1/2")
1489000000-E	610	2,220	TON	ASPHALT CONC BASE COURSE, TYPE B25.0B
1498000000-E	610	4,660	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0B
1519000000-E	610	5,490	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5B
1560000000-E	620	645	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22
2000000000-N	806	26	EA	RIGHT OF WAY MARKERS

ItemNumber	Sec #	Quantity	Unit	Description
2253000000-E	840	0.9	CY	PIPE COLLARS
2264000000-E	840	0.209	CY	PIPE PLUGS
2286000000-N	840	14	EA	MASONRY DRAINAGE STRUCTURES
2308000000-E	840	0.31	LF	MASONRY DRAINAGE STRUCTURES
2366000000-N	840	1	EA	FRAME WITH TWO GRATES, STD 840.24
2367000000-N	840	13	EA	FRAME WITH TWO GRATES, STD 840.29
2535000000-E	846	510	LF	***X *** CONCRETE CURB (8" X 12")
2612000000-E	848	220	SY	6" CONCRETE DRIVEWAY
3649000000-E	876	19	TON	RIP RAP, CLASS B
3656000000-E	876	53	SY	FILTER FABRIC FOR DRAINAGE
4400000000-E	1110	300	SF	WORK ZONE SIGNS (STATIONARY)
4405000000-E	1110	100	SF	WORK ZONE SIGNS (PORTABLE)
4420000000-N	1120	2	EA	CHANGEABLE MESSAGE SIGN
4430000000-N	1130	200	EA	DRUMS
4685000000-E	1205	15,000	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)
4686000000-E	1205	21,000	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)
4725000000-E	1205	65	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)
4810000000-E	1205	60,000	LF	PAINT PAVEMENT MARKING LINES (4")
4845000000-N	1205	130	EA	PAINT PAVEMENT MARKING SYMBOL
4900000000-N	1251	325	EA	PERMANENT RAISED PAVEMENT MARKERS
5325600000-E	1510	10	LF	6" WATER LINE
5325800000-E	1510	48	LF	8" WATER LINE
5326200000-E	1510	7,200	LF	12" WATER LINE
5540000000-E	1515	1	EA	6" VALVE
5558000000-E	1515	7	EA	12" VALVE
5572200000-E	1515	2	EA	12" TAPPING VALVE

ItemNumber	Sec #	Quantity	Unit	Description
5589200000-E	1515	3	EA	2" AIR RELEASE VALVE
5648000000-N	1515	33	EA	RELOCATE WATER METER
5649000000-N	1515	10	EA	RECONNECT WATER METER
5672000000-N	1515	8	EA	RELOCATE FIRE HYDRANT
5801000000-E	1530	50	LF	ABANDON 8" UTILITY PIPE
5804000000-E	1530	7,145	LF	ABANDON 12" UTILITY PIPE
6000000000-E	1605	530	LF	TEMPORARY SILT FENCE
6006000000-E	1610	610	TON	STONE FOR EROSION CONTROL, CLASS A
6009000000-E	1610	45	TON	STONE FOR EROSION CONTROL, CLASS B
6012000000-E	1610	310	TON	SEDIMENT CONTROL STONE
6015000000-E	1615	0.5	ACR	TEMPORARY MULCHING
6018000000-E	1620	50	LB	SEED FOR TEMPORARY SEEDING
6021000000-E	1620	0.25	TON	FERTILIZER FOR TEMPORARY SEEDING
6024000000-E	1622	50	LF	TEMPORARY SLOPE DRAINS
6027000000-N	1622	2	EA	INLET PROTECTION AT TEMPORARY SLOPE DRAINS
6030000000-E	1630	625	CY	SILT EXCAVATION
6036000000-E	1631	4,500	SY	MATting FOR EROSION CONTROL
6042000000-E	1632	320	LF	1/4" HARDWARE CLOTH
6084000000-E	1660	4	ACR	SEEDING & MULCHING
6087000000-E	1660	0.5	ACR	MOWING
6090000000-E	1661	50	LB	SEED FOR REPAIR SEEDING
6093000000-E	1661	0.25	TON	FERTILIZER FOR REPAIR SEEDING
6096000000-E	1662	50	LB	SEED FOR SUPPLEMENTAL SEEDING
6108000000-E	1665	0.25	TON	FERTILIZER TOPDRESSING
6114000000-N	SP	2	HR	SPECIALIZED HAND MOWING
6117000000-N	SP	12	EA	RESPONSE FOR EROSION CONTROL





DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

## SUMMARY OF EARTHWORK

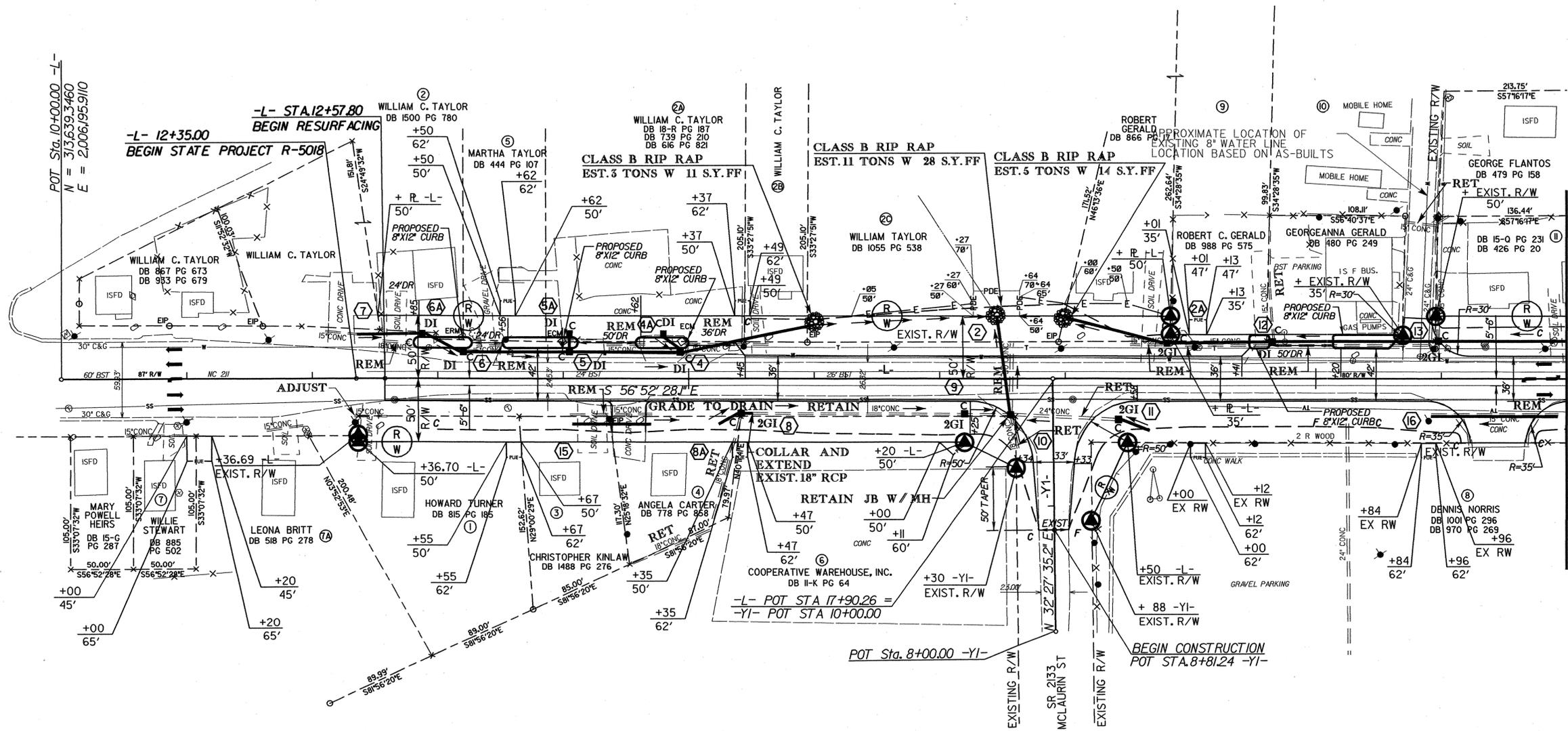
IN CUBIC YARDS

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT + %	BORROW	WASTE
10+00 TO 40+00	3464		2571		893
40+00 TO 70+00	4725		3059		1666
70+00 TO 84+00	1900		1463		437
<b>TOTAL</b>	<b>10089</b>		<b>7093</b>		<b>3000</b>
<i>SAY</i>	<i>10,100</i>				

<small>PROJECT REFERENCE NO.</small> <b>R-5018</b>	<small>SHEET NO.</small> <b>3C</b>
<small>R / W SHEET NO.</small>	
<small>ROADWAY DESIGN ENGINEER</small>	<small>HYDRAULICS ENGINEER</small>
	
<b>PB PARSONS BRINCKERHOFF</b>	
	

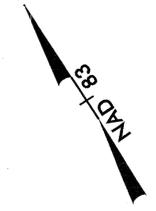
PROJECT REFERENCE NO. <b>R-5018</b>	SHEET NO. <b>4</b>
R / W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REGISTERED ENGINEER  
7/3/2008

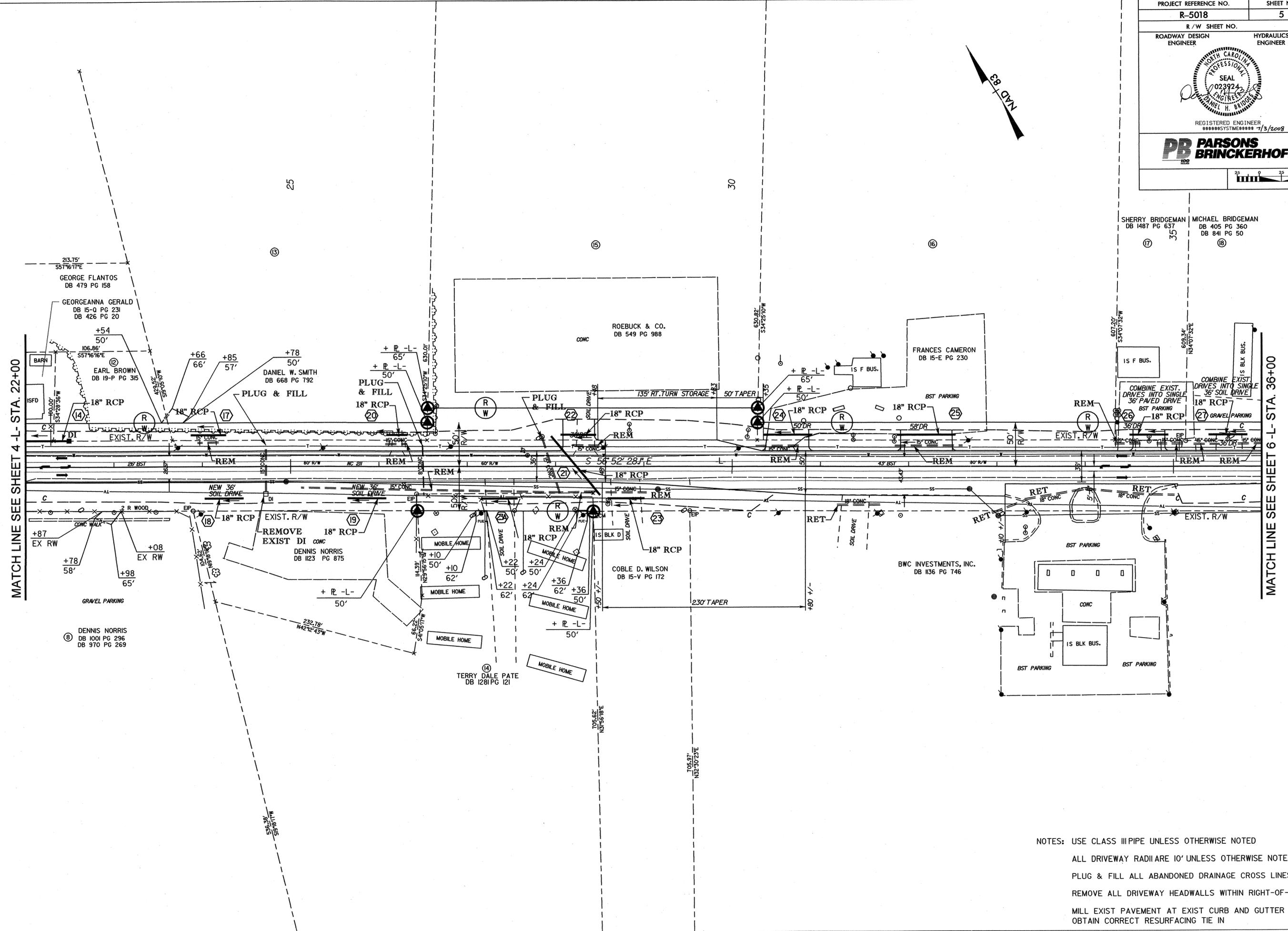


MATCH LINE SEE SHEET 5 - L - STA. 22+00

NOTES: USE CLASS III PIPE UNLESS OTHERWISE NOTED  
 ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED  
 PLUG & FILL ALL ABANDONED DRAINAGE CROSS LINES  
 REMOVE ALL DRIVEWAY HEADWALLS WITHIN RIGHT-OF-WAY



SHERRY BRIDGEMAN DB 1487 PG 637  
 MICHAEL BRIDGEMAN DB 405 PG 360 DB 841 PG 50



MATCH LINE SEE SHEET 4 - L - STA. 22+00

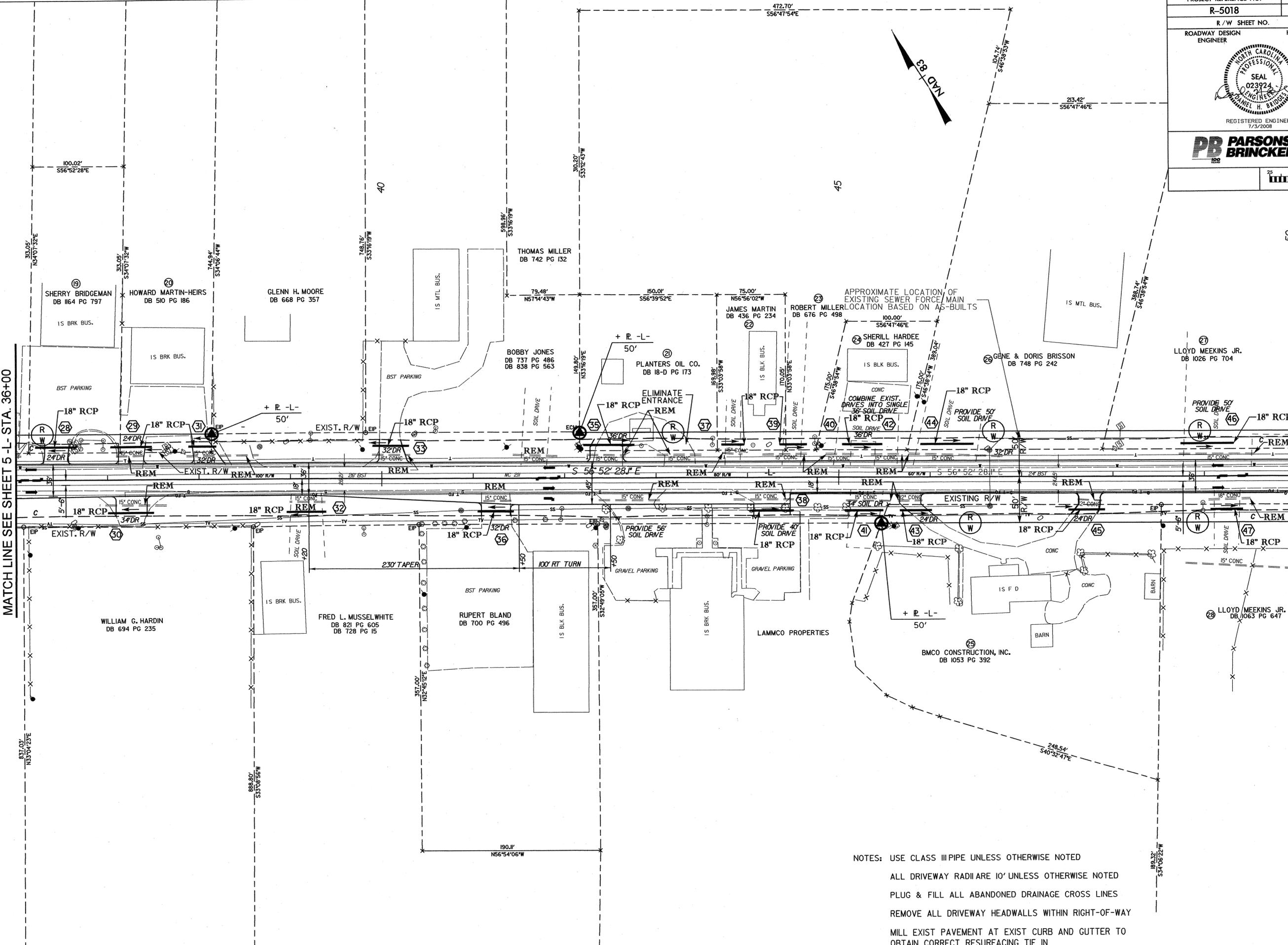
MATCH LINE SEE SHEET 6 - L - STA. 36+00

- NOTES: USE CLASS III PIPE UNLESS OTHERWISE NOTED
- ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED
- PLUG & FILL ALL ABANDONED DRAINAGE CROSS LINES
- REMOVE ALL DRIVEWAY HEADWALLS WITHIN RIGHT-OF-WAY
- MILL EXIST PAVEMENT AT EXIST CURB AND GUTTER TO OBTAIN CORRECT RESURFACING TIE IN

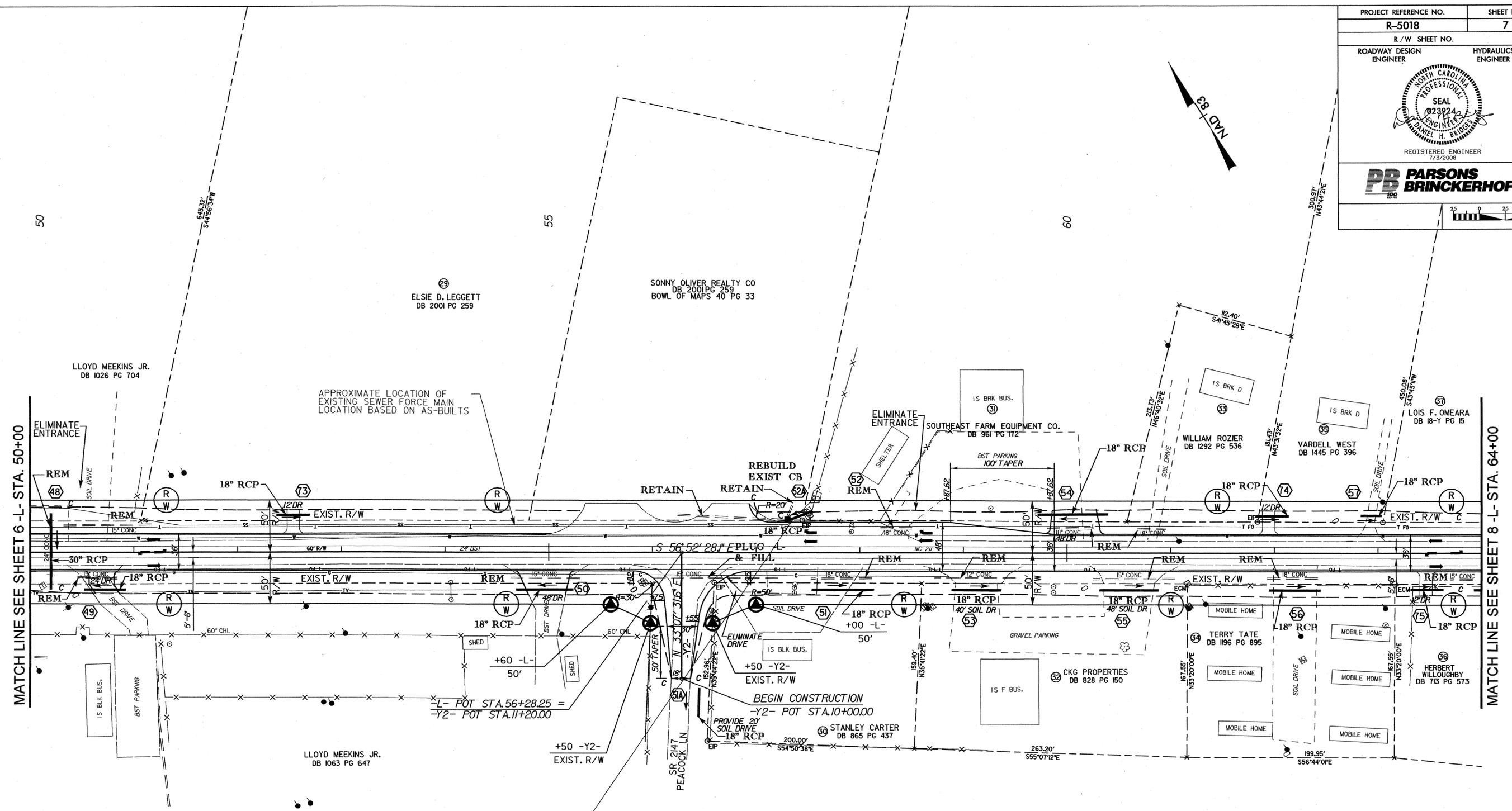
\*\*CMT\*\*  
 \*\*Drf\*\*  
 \*\*DATE\*\*

MATCH LINE SEE SHEET 5 - L - STA. 36+00

MATCH LINE SEE SHEET 7 - L - STA. 50+00



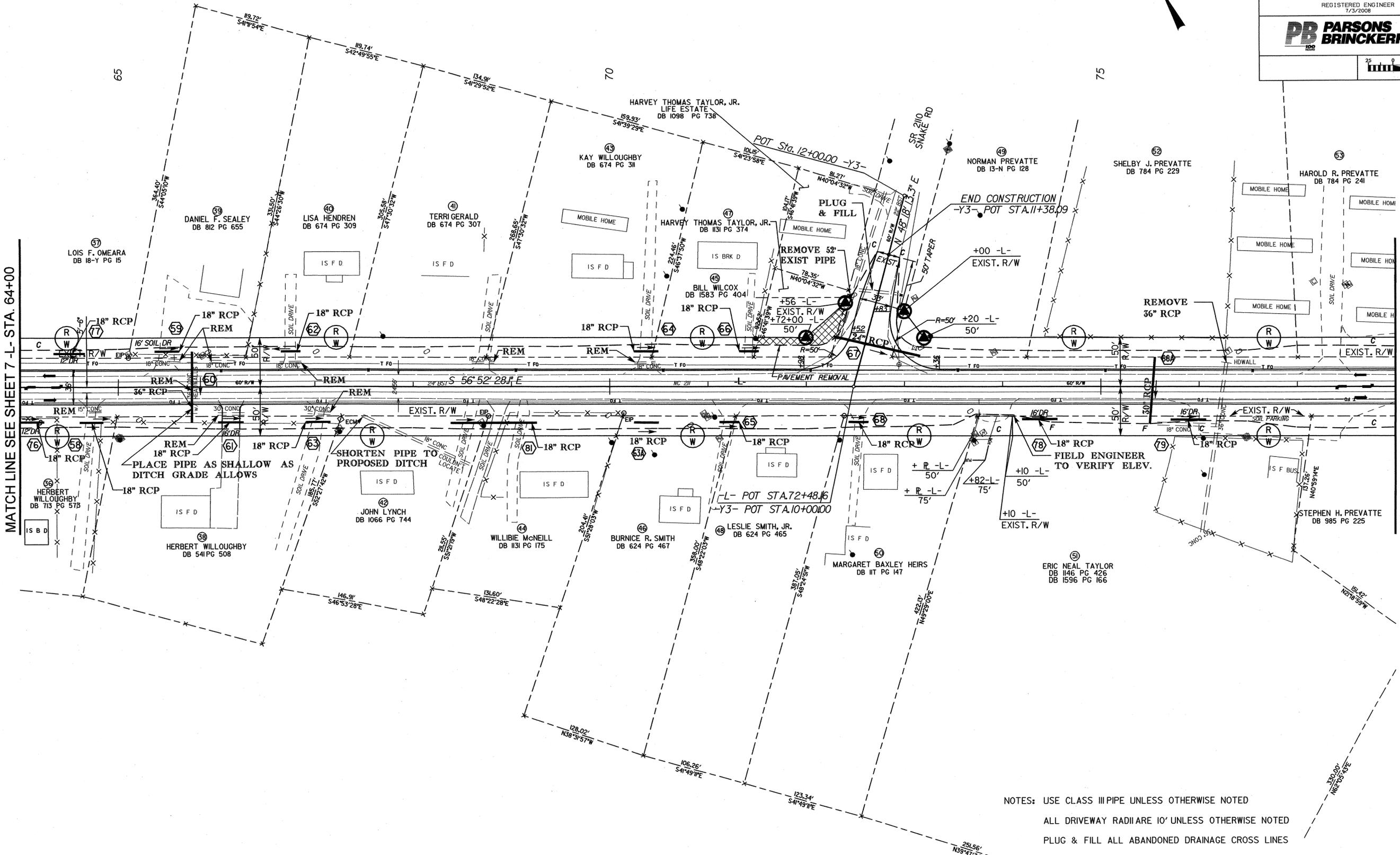
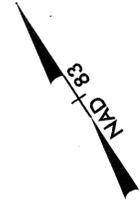
- NOTES: USE CLASS III PIPE UNLESS OTHERWISE NOTED
- ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED
- PLUG & FILL ALL ABANDONED DRAINAGE CROSS LINES
- REMOVE ALL DRIVEWAY HEADWALLS WITHIN RIGHT-OF-WAY
- MILL EXIST PAVEMENT AT EXIST CURB AND GUTTER TO OBTAIN CORRECT RESURFACING TIE IN



MATCH LINE SEE SHEET 6 - L - STA. 50+00

MATCH LINE SEE SHEET 8 - L - STA. 64+00

- NOTES: USE CLASS III PIPE UNLESS OTHERWISE NOTED
- ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED
- PLUG & FILL ALL ABANDONED DRAINAGE CROSS LINES
- REMOVE ALL DRIVEWAY HEADWALLS WITHIN RIGHT-OF-WAY
- MILL EXIST PAVEMENT AT EXIST CURB AND GUTTER TO OBTAIN CORRECT RESURFACING TIE IN

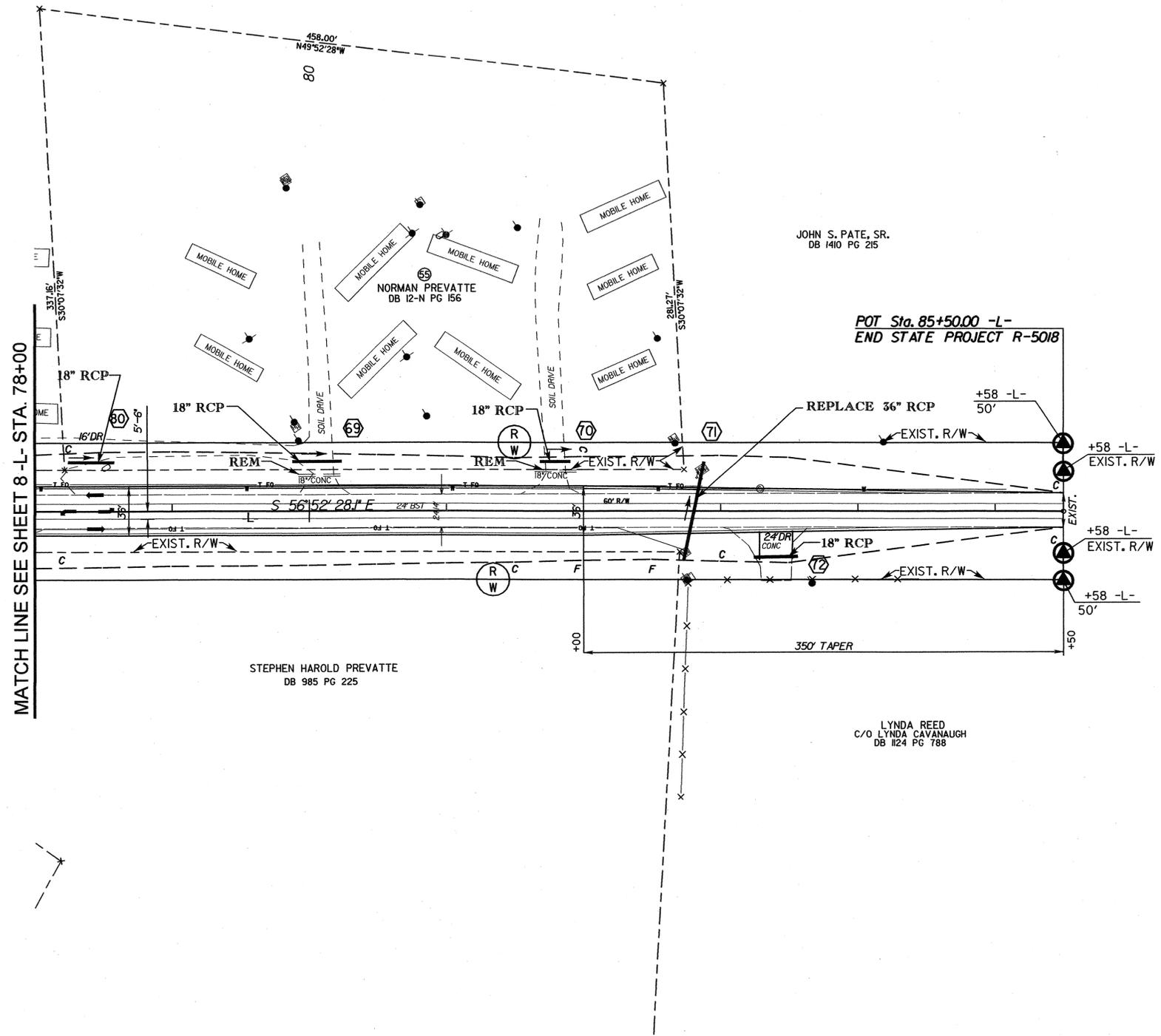


MATCH LINE SEE SHEET 7 - L- STA. 64+00

MATCH LINE SEE SHEET 9 - L- STA. 78+00

NOTES: USE CLASS III PIPE UNLESS OTHERWISE NOTED  
 ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED  
 PLUG & FILL ALL ABANDONED DRAINAGE CROSS LINES  
 REMOVE ALL DRIVEWAY HEADWALLS WITHIN RIGHT-OF-WAY

PROJECT REFERENCE NO. <b>R-5018</b>	SHEET NO. <b>9</b>
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
	
	
	



MATCH LINE SEE SHEET 8-L- STA. 78+00

POT Sta. 85+50.00 -L-  
END STATE PROJECT R-5018

- NOTES: USE CLASS III PIPE UNLESS OTHERWISE NOTED  
 ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED  
 PLUG & FILL ALL ABANDONED DRAINAGE CROSS LINES  
 REMOVE ALL DRIVEWAY HEADWALLS WITHIN RIGHT-OF-WAY