

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

GENERAL NOTES CONTINUED

GUARDRAIL & CONCRETE BARRIER (CONT.):

INSTALL PRECAST REINFORCED CONCRETE BARRIERS ON THE US 15-501 SHOULDERS ADJACENT TO THE COLUMNS OF THE SR 1803 (VASS CARTHAGE ROAD) OVERPASS. SEE STD. DWG. NO. 857.01 (SHEET 2 OF 10) FOR DETAILS.

RELOCATIONS OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.

RIGHT-OF-WAY MARKERS: ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT WILL BE PLACED BY THE CONTRACTOR.

UTILITIES:

NO SUBSURFACE INVESTIGATIONS OR PLANS ARE AVAILABLE FOR THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.

EROSION CONTROL:

THE FINAL SIZE AND LOCATION OF ALL EROSION CONTROL DEVISES MAY BE ADJUSTED BY THE ENGINEER IN THE FIELD. THE CONTRACTOR SHOULD CONSULT WITH THE ENGINEER PRIOR TO PLACING EROSION CONTROL MEASURES.

PAVEMENT PATCHING AND MILLING:

US 15-501: THE QUANTITY FOR MILLING SHOWN IN THESE PLANS IS A RESULT OF FIELD INVESTIGATIONS AT THE TIME OF DESIGN. MILLING QUANTITIES HAVE BEEN CALCULATED BASED ON FIELD RECONNAISSANCE IDENTIFYING VARIOUS LOCATIONS SHOWING EXTREME DISTRESS WITHIN THE PROJECT LIMITS. THE ENGINEER WILL DETERMINE FINAL MILLING LOCATIONS AND LIMITS AT THE TIME OF CONSTRUCTION, SEE DETAIL WY SHEET 2C FOR DETAIL,

LITTLE RIVER BRIDGE: THE RIVER BRIDGE:
PRIOR TO PLACING THE RESURFACING COURSE, THE CONTRACTOR SHALL
MILL 2" OF EXISTING ASPHALT OFF THE LITTLE RIVER BRIDGE, ALSO,
2" MILLING SHALL BE PERFORMED 50" BACK FROM THE BRIDGE IN BOTH
DIRECTIONS, MILLING SHALL BE FEATHERED BACK TO EXISTING GRADE
TO ALLOW FOR A SMOOTH GRADE TRANSITION OVER THE BRIDGE ON THE
FINAL WEARING SURFACE.

EXISTING MEDIAN ISLANDS:

EXISTING MEDIAN ISLANDS ARE TO BE REMOVED OR REPLACED IN ACCORDANCE WITH DETAILS W5 & W6 (SEE SHEET 2C). EXISTING MEDIAN ISLANDS ARE TO BE REMOVED OR REPLACED AS FOLLOWS:

- 1. US 15-501 SOUTH OF THE SR 1845 (SPRING LAKE DRIVE)
 INTERSECTION REMOVE EXISTING 12' WIDE MONOLITHIC
 ISLAND.REPLACE WITH 8' MONOLITHIC ISLAND IN THE SAME LOCATION. SEE DETAIL W5 SHEET 20
- 2. SR 1208 (PAGE ROAD) REMOVE GRASSED ISLAND AND PAVE SEE DETAIL W6 SHEET 2C
- REMOVE THE EXISTING MONOLITHIC ISLAND AND PAVE SEE DETAIL WE SHEET 2C
- 4. SR 1251 (BRINKLY ROAD) REMOVE GRASSED ISLAND AND PAVE SEE DETAIL WG SHEET 2C
- NC 22 (NORTH) REMOVE GRASSED ISLAND AND REPLACE WITH CONCRETE MONOLITHIC SEE DETAIL W5 SHEET 2C
- US 15-501(HILLCREST)SOUTHERN-MOST ISLAND
 REMOVE GRASSED ISLAND AND REPLACE WITH CONCRETE
 MONOLITHIC.SEE DETAIL W5 SHEET 2C
- 7. US 15-501 (HILLCREST) NORTHERN-MOST ISLAND REMOVE GRASSED ISLAND AND PAVE SEE DETAIL W6 SHEET 2C

RESURFACING LIMITS:

REFER TO SHEET 2C (DETAILS W7 & W8) FOR STREET AND DRIVEWAY RESURFACING LIMITS. THE FINAL LIMITS OF RESURFACING MAY BE ADJUSTED BY THE ENGINEER IN THE FIELD.

NORTH CAROLINA MOVING AHEAD SIGNAGE:

THE DEPARTMENT WILL FURNISH THE CONTRACTOR WITH THE NORTH CAROLINA MOVING AHEAD (NCMA) LOGO SIGNS, THE CONTRACTOR WILL PROCURE THESE SIGNS FROM EITHER THE LOCAL TRAFFIC SERVICES OFFICE OR DIRECTLY FROM THE BUNN SIGN PLANT, THESE SIGNS ARE TO BE INSTALLED AS REQUIRED AND ARE LEFT TO BE IN PLACE AT THE COMPLETION OF THE PROJECT, AT SUCH TIME AS THE DIVISION ENGINEER OR CHIEF ENGINEER DECIDES THEY SHOULD BE REMOVED, DIVISION FORCES WILL REMOVE THE NCMA LOGO SIGNS AND WILL STOCKPILE THEM FOR FUTURE DISPOSITION, THE NCMA SIGNS AND SUPPORTS SHALL REMAIN PROPERTY OF THE NCDOT, PAYMENT WILL BE INCIDENTAL TO THE COST OF OTHER ITFMS IN THE CONTRACT. 1632.03 1633.02 1634.02 ITEMS IN THE CONTRACT. 1635.02

LIST OF ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" — ROADWAY DESIGN UNIT — NC DEPARTMENT OF TRANSPORTATION— RALEIGH, N.C., DATED JULY 2006 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREIN ARE CONSIDERED A PART OF THESE PLANS.

CONSIDEREL	D A PART OF THESE PLANS.
STD.NO.	<u>DESCRIPTION</u>
200.02	METHOD OF CLEARING - METHOD II
225.02	GUIDE FOR GRADING SUBGRADE - SECONDARY AND LOCAL
225.06	METHOD OF GRADING SIGHT DISTANCE AT INTERSECTION
300.01	METHOD OF PIPE INSTALLATION - METHOD 'A'
310,02	PARALLEL PIPE END SECTION
310,10	DRIVEWAY PIPE CONSTRUCTION - USING NO SPECIAL END SECTIONS
560,01	METHOD OF SHOULDER CONSTRUCTION - HIGH SIDE OF SUPERELEVATED CURVE
610,01	GUIDE FOR PAVING SHOULDERS UNDER BRIDGES - METHOD I
700.05	TYING PROPOSED PAVEMENT TO EXISTING PAVEMENT
806.DI	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
840J4	CONCRETE DROP INLET
840J5	BRICK DROP INLET
840J6	DROP INLET FRAME AND GRATE
840J8	CONCRETE GRATED DROP INLET TYPE 'B'
840.27	BRICK GRATED DROP INLET TYPE 'B'
840.29	FRAMES AND NARROW SLOT FLAG GRATES
840.34	TRAFFIC BEARING JUNCTION BOX
840.45	PRECAST DRAINAGE STRUCTURE
840.46	TRAFFIC BEARING PRECAST DRAINAGE STRUCTURE
840.66	DRAINAGE STRUCTURE STEPS
840.72	PIPE COLLAR
846.DI	CONCRETE CURB. GUTTER. AND CURB & GUTTER
846.04	DROP INLET INSTALLATION IN SHOULDER BERM GUTTER
<i>852.01</i>	CONCRETE ISLANDS
857.DI	PRECAST REINFORCED CONCRETE BARRIER - 4F SINGLE FACED
862.DI	GUARDRAIL PLACEMENT
862.02	GUARDRAIL INSTALLATION
862.03	GUARDRAIL ANCHOR UNITS
862.04	ANCHORING END OF GUARDRAIL
<i>8</i> 76.02	GUIDE FOR RIP RAP AT PIPE OUTLETS
IOLOI	WORK ZONE ADVANCED WARNING SIGNS
1101,02	TEMPORARY LANE CLOSURES
IIOIJI	TRAFFIC CONTROL DESIGN TABLES
1110,011	STATIONARY WORK ZONE SIGNS - MOUNTING HEIGHT & LATERAL CLEARANCE
1110.02	PORTABLE WORK ZONE SIGNS
III5DI	FLASHING ARROW PANELS DRUMS
1130,01 1135,01	CONES
1150,01 1165,01	FLAGGERS TRUCK MOUNTED IMPACT ATTENUATOR
1205DI	PAVEMENT MARKINGS
1205,02	PAVEMENT MARKINGS - TWO LANE.TWO-WAY ROADWAYS
1205.03	PAVEMENT MARKINGS - INTERCHANGE ENTRANCE AND EXIT RAMPS
1205,04	PAVEMENT MARKINGS - NON-SIGNALIZED AND SIGNALIZED INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.06	PAVEMENT MARKINGS - THRU-LANE DROPS
1205.08	PAVEMENT MARKINGS - SYMBOL AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1250.01	PAVEMENT MARKER SPACING
1251DI	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY
1261.01	GUARDRAIL AND BARRIER DELINEATOR SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATOR TYPES
1262.01	GUARDRAIL END DELINEATION
1605,01	TEMPORARY SILT FENCE
1630,02	SILT BASIN TYPE 'B'
1632.02	ROCK INLET SEDIMENT TRAP TYPE 'B'
<i>1632.03</i>	ROCK INLET SEDIMENT TRAP TYPE 'C'

INDEX OF SHEETS

SHEET NUMBER	DESCRIPTION
1	TITLE SHEET
I-A	INDEX OF SHEETS,GENERAL NOTES,AND LIST OF STANDARDS
r-B	CONVENTIONAL SYMBOLS
2-2D	TYPICAL SECTIONS, PAVEMENT SCHEDULE, AND MISCELLANEOUS DETAILS
2-E , 2-F	DETAIL TO CONVERT DITO TBJB
3-3B	SUMMARY OF QUANTITIES
3-c	SUMMARY OF GUARDRAIL
3-D	SUMMARY OF DRAINAGE
3-E	SUMMARY OF EARTHWORK
3-F	RIGHT-OF-WAY DATA SHEET
4-13	PLAN SHEETS
<i>14-1</i> 9	PROFILE SHEETS
20	BARRIER WALL PROFILES
NCMA-1, TCP-1	NCMA WORKZONE SIGNING, WZ Signs
PM-ITHRU PM-10	PAVEMENT MARKING PLANS
ERO-ITHRU ERO-IO	EROSION CONTROL PLANS
SIG-1 - SIG-4	SIGNAL PLANS
UC-1 - UC-5	UTILITY CONSTRUCTION PLANS
x-1 - x-2	CROSS SECTION SUMMARY SHEETS
X-3 THRU X-87	CROSS SECTIONS

GENERAL NOTES

STATEMENT OF WORK:

STATE PROJECT WBS 37620 CONSISTS OF GENERAL WIDENING OF 2-FEET ON EACH SIDE OF US 15-501 PLUS A 2-INCH RESURFACING COURSE ON US 15-501, ALSO INCLUDED ARE SPECIFIC IMPROVEMENTS AT SEVEN INTERSECTIONS DETAILED

CONSTRUCTION SURVEYING:

ALL SURVEYING WORK REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT WILL BE PERFORMED BY STATE FORCES.

GRADING, RESURFACING, AND WIDENING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED OR FUTURE SURFACE 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 PROPOED RESURFACING WILL BE PLACED. GRADE LINES MAY BE ADJUSTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

ADDITIONAL BORROW COULD BE OBTAINED FROM THE LEFT SIDE OF THE PROJECT AS DIRECTED BY THE ENGINEER.

CLEARING:

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.

SUPERELEVATION:

ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED TO MATCH THE EXISTING ROADWAY CROSS SLOPE, SUPERELEVATION IS TO BE REVOLVED ABOUT THE EXISTING CROWN POINTS AS SHOWN ON THE

SHOULDER CONSTRUCTION AND RECONSTRUCTION:

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

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

GUARDRAIL & CONCRETE BARRIER:

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

TEMPORARY ROCK SILT CHECK TYPE 'B'

TEMPORARY ROCK SEDIMENT DAM TYPE 'B'

ROCK PIPE INLET SEDIMENT TRAP TYPE 'B'

*S.U.E. = Subsurface Utility Engineering

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:	•	RAILROADS:	
State Line		Standard Guage ······	-+
County Line		RR Signal Milepost	
Township Line		Switch ·····	. 🖂
City Line	* * * *********************************	RR Abandoned ·····	SWITCH
Reservation Line		RR Dismantled	
Property Line ·····			
Existing Iron Pin	<u>o</u>	RIGHT OF WAY:	
Property Corner	×	Baseline Control Point	. ◆
Property Monument ······		Existing Right of Way Marker	\triangle
Parcel/Sequence Number ······		Existing Right of Way Line	
Existing Fence Line		Proposed Right of Way Line	
Proposed Woven Wire Fence		Proposed Right of Way Line with Iron Pin and Cap Marker	→
Proposed Chain Link Fence		Proposed Right of Way Line with	
Proposed Barbed Wire Fence	· · · · · · · · · · · · · · · · · · ·	Concrete or Granite Marker	*************************************
Existing Wetland Boundary		Existing Control of Access	(§)
Proposed Wetland Boundary		Proposed Control of Access	
Existing High Quality Wetland Boundary		Existing Easement Line	E
Existing Endangered Animal Boundary	EAB	Proposed Temporary Construction Easement	E
Existing Endangered Plant Boundary		Proposed Temporary Drainage Easement	TDE
		Proposed Permanent Drainage Easement	PDE
BUILDINGS AND OTHER CULT	,	Proposed Permanent Utility Easement	PUE
Gas Pump Vent or U/G Tank Cap		DOADS AND DELATED FEATUR	erc.
Sign	-	ROADS AND RELATED FEATURE Existing Edge of Pavement	
Small Mine		Existing Curb	
· ·			
Foundation		Proposed Slope Stakes Cut	
Area Outline		Proposed Slope Stakes Fill	
Cemetery		Proposed Wheel Chair Ramp	₩CB
Building ·····		Curb Cut for Future Wheel Chair Ramp	
School		Existing Metal Guardrail	
Church		Proposed Guardrail ·····	
Dam	• • • • • • • • • • • • • • • • • • • •	Existing Cable Guiderail	
HYDROLOGY:		Proposed Cable Guiderail	
Stream or Body of Water	•	Equality Symbol	•
Hydro, Pool or Reservoir	* **	Pavement Removal ·····	
River Basin Buffer		VEGETATION:	
Flow Arrow	•	Single Tree	- &
Disappearing Stream	->	Single Shrub ······	
Spring		Hedge ·····	
Swamp Marsh		Woods Line	
Proposed Lateral, Tail, Head Ditch		Orchard ·····	
False Sump	PM	Vineyard ·····	
	~	• * * *	

EXISTING STRUCTURES: Bridge, Tunnel or Box Culvert ----- CONC Bridge Wing Wall, Head Wall and End Wall --) CONC *** MINOR: Head and End Wall Pipe Culvert Drainage Box: Catch Basin, DI or JB Paved Ditch Gutter -----Storm Sewer Manhole -----**UTILITIES:** POWER: Existing Power Pole -----Proposed Power Pole -----Existing Joint Use Pole Proposed Joint Use Pole -----Power Manhole -----Power Line Tower ····· Power Transformer -----U/G Power Cable Hand Hole -----H-Frame Pole ····· Recorded U/G Power Line -----Designated U/G Power Line (S.U.E.*) ------TELEPHONE: Existing Telephone Pole ····· Proposed Telephone Pole -----Telephone Manhole-----Telephone Booth -----Telephone Pedestal Telephone Cell Tower U/G Telephone Cable Hand Hole Recorded U/G Telephone Cable Designated U/G Telephone Cable (S.U.E.*) ------Recorded U/G Telephone Conduit Designated U/G Telephone Conduit (S.U.E.*) -----

WATER:	
Water Manhole	®
Water Meter ·····	0
Water Valve ·····	8
Water Hydrant	•
Recorded U/G Water Line ·····	
Designated U/G Water Line (S.U.E.*)	
Above Ground Water Line	
r∨ :	
TV Satellite Dish	K
TV Pedestal ·····	
TV Tower ·····	\otimes
U/G TV Cable Hand Hole ·····	<u>)</u>
Recorded U/G TV Cable ······	
Designated U/G TV Cable (S.U.E.*)	
Recorded U/G Fiber Optic Cable	
Designated U/G Fiber Optic Cable (S.U.E.*)	
,	
GAS:	
Gas Valve ·····	\Q
Gas Meter	ò
Recorded U/G Gas Line	· ·
Designated U/G Gas Line (S.U.E.*)	
Above Ground Gas Line	
	•
ANITARY SEWER:	
Sanitary Sewer Manhole	●
Sanitary Sewer Cleanout	•
U/G Sanitary Sewer Line	
Above Ground Sanitary Sewer	A/G Sanitary Sewer
Recorded SS Forced Main Line	F85
Designated SS Forced Main Line (S.U.E.*)	rss
AISCELLANEOUS:	
Utility Pole	•
Utility Pole with Base	
Utility Located Object	<u>□</u>
Utility Traffic Signal Box	. [5]
Utility Unknown U/G Line	
U/G Tank; Water, Gas, Oil	
A/G Tank; Water, Gas, Oil	
U/G Test Hole (S.U.E.*)	
Abandoned According to Utility Records	A ATLID
End of Information	AATUR E.O.L
	C.V.J.L.

NOTES:

- * 1. PAVEMENT EDGE SLOPES ARE 1:1 UNLESS OTHERWISE NOTED
- 4. SEE DETAIL W3 AND W4 (SHEET 2C) FOR PAVEMENT EDGE TREATMENT DETAILS ADJACENT TO EXISTING CURB.
- 2. PAVEMENT DESIGN PROVIDED BY NCDOT DIVISION 8
- ** 3. SEE PARTIAL SECTIONS 1A 1C FOR EXCEPTIONS TO STATION LIMITS



Kimley-Horn and Associates, Inc.

P.O. BOX 33068 RALEIGH, N.C. 27636–3068

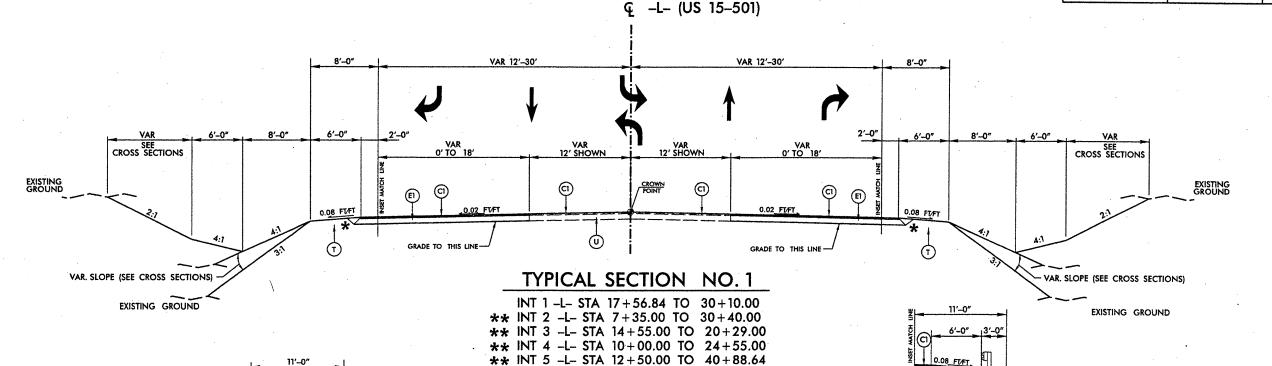
CARO SEAL VI 1911 029876 VI 1911 1911 VI 191

WBS 37620

ROADWAY DESIGN

RW SHEET NO.

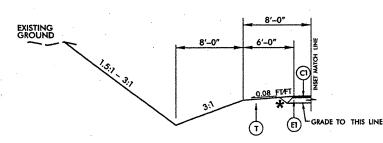
SEAL O26480



EXISTING COUND TO THIS LINE

TYPICAL SECTION NO. 1A-LT

INT 2 -L- STA 21+50.00 TO 30+40.00 INT 6 -L- STA 16+50.00 TO 23+53.06



TYPICAL SECTION NO. 1B-LT

INT 5 -L- STA 27+00.00 TO 31+50.00 INT 5A -L- STA 21+80.00 TO 27+00.00

PAVEMENT SCHEDULE

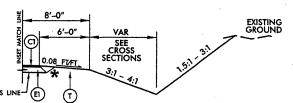
** INT 5A -L- STA 14+20.00 TO 28+90.00 ** INT 6 -L- STA 12+70.00 TO 23+53.06

	CI	PROPOSED APPROX. 2 ASPHALT CONCRETE SURFACE COURSE TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SO. YD.			
	EI PROPOSED APPROX. 8° ASPHALT CONCRETE BASE COURSE, TYPE B25. AN AVERAGE RATE OF 456 LBS.PER SO YARD.IN EACH OF TWO LAY				
	J	8 COMPACTED AGGREGATE BASE COURSE			
	RI -	8" X 12" CONCRETE CURB			
	R2	5" MONOLITHIC CONCRETE ISLAND (KEYED IN)			
E	Т	EARTH MATERIAL			
	U	VARIABLE WIDTH EXISTING PAVEMENT			

TYPICAL SECTION NO. 1A-RT

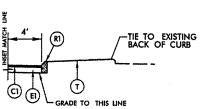
INE (E)

INT 2 -L- STA 22+00.00 TO 29+00.00 INT 6 -L- STA 16+50.00 TO 20+50.00



TYPIČAL SECTION NO. 1B-RT

INT 2 -L- STA 14+00.00 TO 19+50.00 INT 3 -L- STA 15+50.00 TO 20+00.00 INT 4 -L- STA 14+50.00 TO 22+50.00 INT 5 -L- STA 20+00.00 TO 21+00.00 INT 5 -L- STA 26+50.00 TO 32+00.00 INT 5A -L- STA 21+50.00 TO 24+35.00

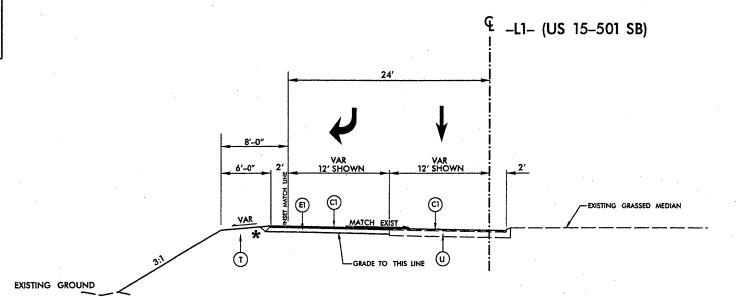


TYPICAL SECTION NO. 1C-RT

INT 2 -L- STA 19+50.00 TO 21+50.00 (AT ISLANDS)

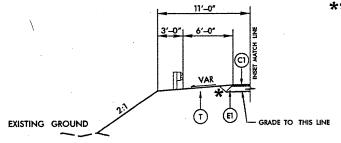


1. 1-10-2005 - Typical section #2 Added. Sheet 2C required.



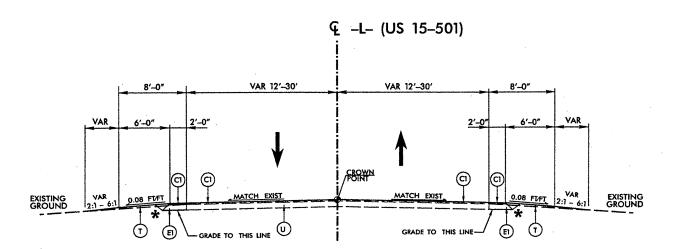
TYPICAL SECTION NO. 2

** INT 6 -L1- STA 19+50.00 TO STA. 28.35.72



TYPICAL SECTION NO. 2A-LT

INT 6 -L- STA 23+53.06 TO -L1- STA 27+50.00



TYPICAL SECTION NO. 3

US 15-501 FROM MEMORIAL DRIVE IN PINEHURST TO BEGIN WIDENING OF INTERSECTION # 6 IN CARTHAGE. TO BE USED OUTSIDE OF THE LIMITS OF THE INDIVIDUAL INTERSECTION IMPROVEMENTS.



Kimley-Horn and Associates, Inc.

P.O. BOX 33068 RALEIGH, N.C. 27636-3066

C. SEA 0298

PROJECT REFERENCE NO.

WBS 37620

RW SHEET NO.

HYDRAULICS ENGINEER CAA SEAL 026480

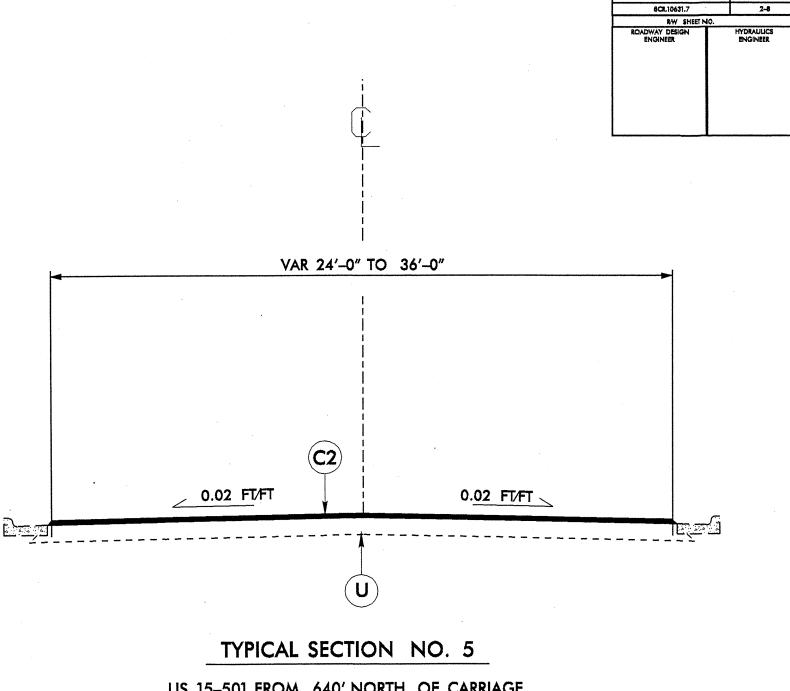
SHEET NO.

2A

NOTES:

- * 1. PAVEMENT EDGE SLOPES ARE 1:1 UNLESS OTHERWISE NOTED
- 2. PAVEMENT DESIGN PROVIDED BY NCDOT DIVISION 8.
- 3. SEE DETAIL W3 AND W4 (SHEET 2C) FOR PAVEMENT EDGE TREATMENT DETAILS ADJACENT TO EXISTING CURB.
- ** 4. SEE PARTIAL SECTIONS 2A FOR EXCEPTIONS TO STATION LIMITS.

	PAVEMENT SCHEDULE
CI	PROPOSED APPROX. 2º ASPHALT CONCRETE SURFACE COURSE TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ.YD.
ΕI	PROPOSED APPROX.8" ASPHALT CONCRETE BASE COURSE, TYPE B25.DC, AT AN AVERAGE RATE OF 456 LBS.PER SQ YARD.IN EACH OF TWO LAYERS.
J	8° COMPACTED AGGREGATE BASE COURSE
RI	8° X 12° CONCRETE CURB
R2	5' MONOLITHIC CONCRETE ISLAND (KEYED IN)
Т	EARTH MATERIAL
U	VARIABLE WIDTH EXISTING PAVEMENT





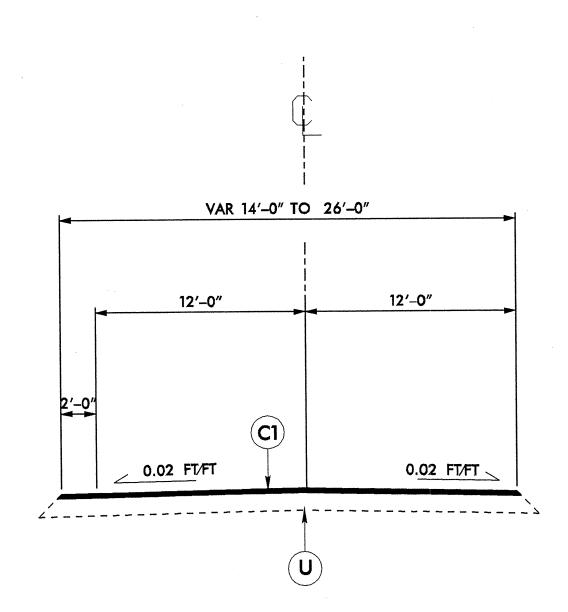
PAVEMENT SCHEDULE

C1 PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C,
AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.

C2 PROP. APPROX. 1 1/2 " ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C,
AT AN AVERAGE RATE OF 188 LBS. PER SQ. YD.

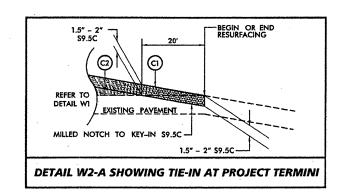
U EXISTING PAVEMENT.

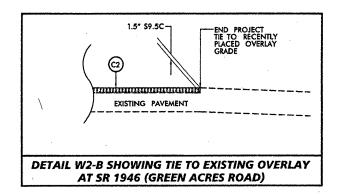
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

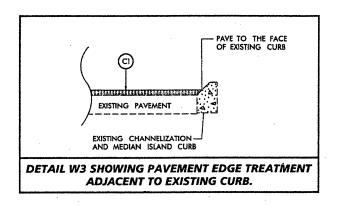


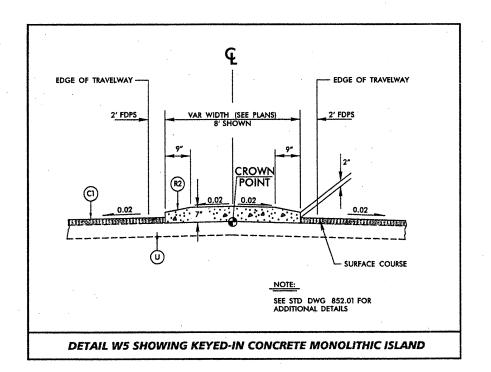
TYPICAL SECTION NO. 4

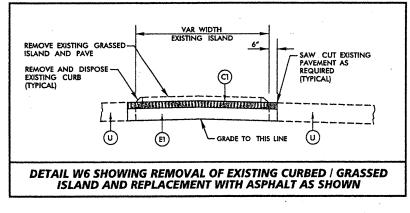
US 15-501 FROM CONSTRUCTION JOINT SOUTH OF PINEHURST TRAFFIC CIRCLE TO MEMORIAL DRIVE (INCLUDING TRAFFIC CIRCLE)

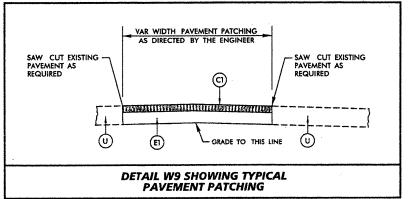






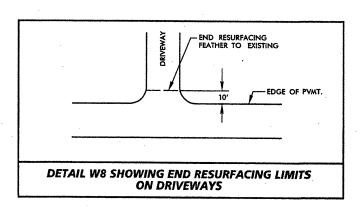


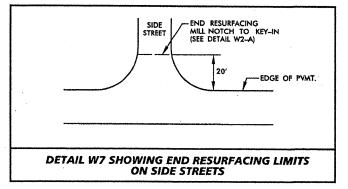






	PAVEMENT SCHEDULE
CI	PROPOSED APPROX. 2º ASPHALT CONCRETE SURFACE COURSE TYPE S9.5C. AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
ΕI	PROPOSED APPROX. 8° ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS.PER SO YARD.IN EACH OF TWO LAYERS.
J	8° COMPACTED AGGREGATE BASE COURSE
RI	8° X IZ° CONCRETE CURB
R2	5° MONOLITHIC CONCRETE ISLAND (KEYED IN)
Т	EARTH MATERIAL
U	VARIABLE WIDTH EXISTING PAVEMENT

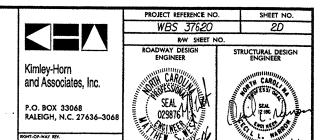


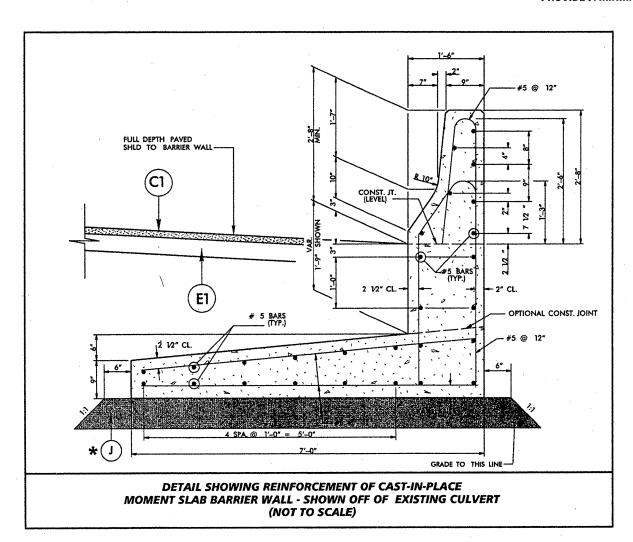


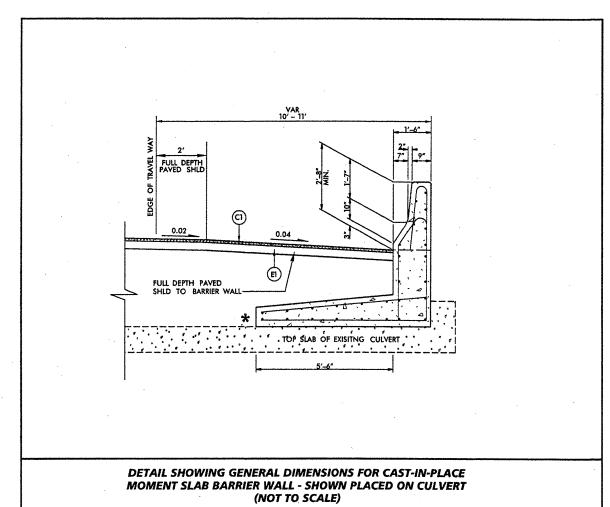
DE	VIS	NIC.	

GENERAL NOTES:

- 1. CONSTRUCT CONCRETE BARRIER OF CLASS 'AA' CONCRETE. (SEE SPECIFICATIONS SECTION 854).
- 2. VERTICAL GROOVED CONSTRUCTION JOINTS, 1/2 INCH IN DEPTH, SHALL BE TOOLED IN ALL EXPOSED FACES OF THE BARRIER RAIL AND IN ACCORDANCE WITH ARTICLE 825-10(B) OF THE STANDARD SPECIFICATION. A JOINT SHALL BE LOCATED AT SPACING NOT TO EXCEED 15 FEET.
- 3. SEE SHEET 20 FOR TOP OF BARRIER WALL PROFILES
- 4. SEE SHEET 6 AND GEO-3 FOR PLAN ADDITIONAL BARRIER WALL DETAILS
- * 5. WHERE BARRIER WALL IS NOT BEARING DIRECTLY ON TOP OF THE EXISTING CULVERT PROVIDE A MINIMUM OF 8" COMPACTED AGGREGATE BASE COURSE AS SHOWN.

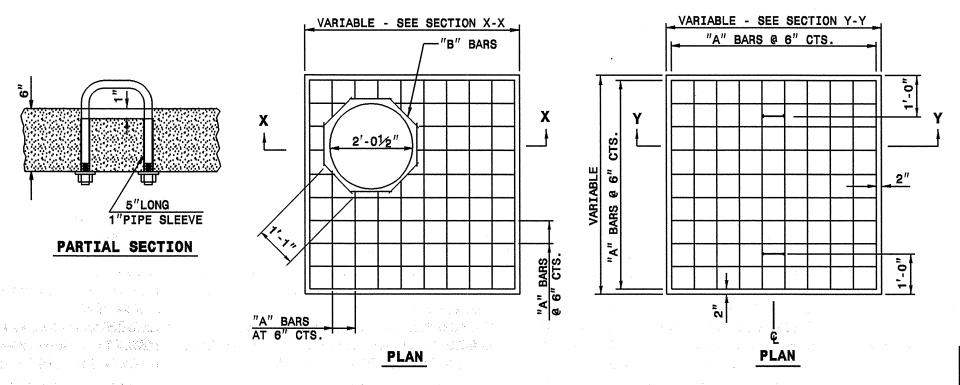






·	PAVEMENT SCHEDULE			
CI	PROPOSED APPROX. 2" ASPHALT CONCRETE SURFACE COURSE TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.	J	8 COMPACTED AGGREGATE BASE COURSE	
C2	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE \$9.5C, AT AN AVERAGE RATE OF 112 LBS. PER SO. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 11/2" IN DEPTH OR GREATER THAN 2" IN DEPTH.	RI	8" X 12" CONCRETE CURB	
ΕI	PROPOSED APPROX. 8' ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS.PER SO YARD.IN EACH OF TWO LAYERS.	R2	5° MONOLITHIC CONCRETE ISLAND (KEYED IN)	
E2	PROP, VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 114 LBS. PER SO. YD. PER I DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 3'OR GREATER THAN 5.5' IN DEPTH.	Т	EARTH MATERIAL	
(U	VARIABLE WIDTH EXISTING PAVEMENT	

PROJECT REFERENCE NO. SHEET NO. 2-E

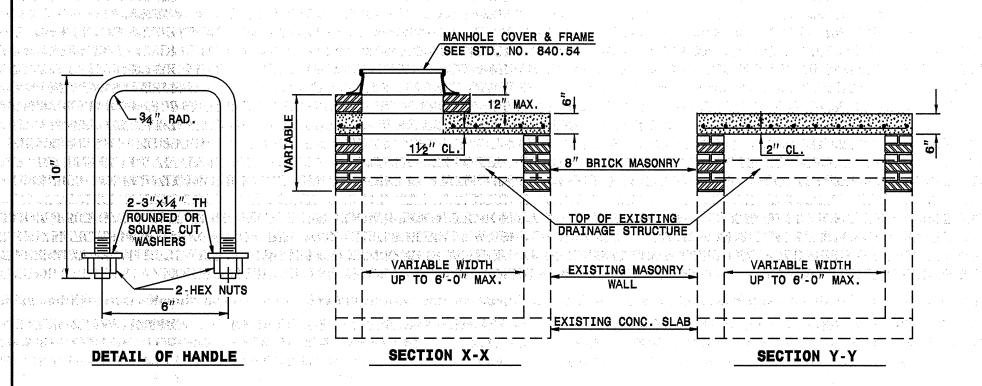


GENERAL NOTES:

CONSTRUCT IN ACCORDANCE WITH SECTION 859 OF THE STANDARD SPECIFICATIONS.

FIELD VERIFY THE DIMENSIONS FOR THE EXISTING BOXES

DETAIL INTENDED FOR NON-TRAFFIC BEARING DRAINAGE STRUCTURES.



BILL OF MATERIALS					
	, RE	INFORCING	STEEL		
CODE	SIZE	QTY.	LENGTH	REINF. STEEL LBS.	
Α	#4	20	4'-6"	60.12	
В	#4	8	1'-1"	5.79	
	TOTAL 65.				
:					
	MASONRY CU YDS				
TOP	TOP SLAB CONCRETE CLASS "B" .433 *				
BRI	BRICK MASONRY PER FT HT (MIN) .4111				

* NOTE:

QUANTITIES BASED ON 3'-6" X 3'-6"
DRAINAGE STRUCTURE. ADJUST QUANTITIES
FOR LARGER STRUCTURES AND MANHOLE
CONSTRUCTION.

PROJECT SERVICES UNIT STANDARDS AND SPECIAL DESIGN Office 919-250-4128 FAX 919-250-4119

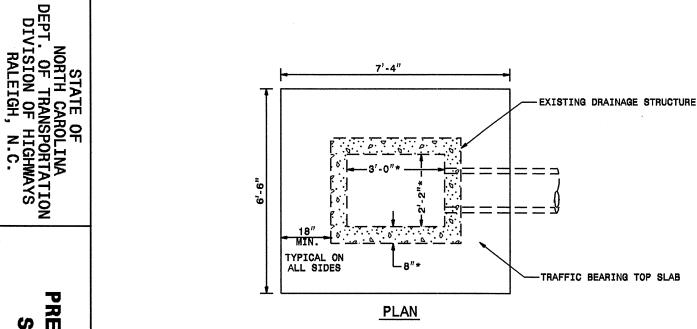
DETAIL TO CONVERT EXISTING DROP INLET OR CATCH BASIN TO JUNCTION BOX (MANHOLE OPTIONAL)

ORIGINAL BY	T.S.S.	DATE:	NOV.1997
MODIFIED BY		DATE:	8-28-02
CHECKED BY:		DATE:	
FILE SPEC .:	/usr/details/stand	1/boxto	ibe don

-EB-2007 |5:33

PROJECT REFERENCE NO. SHEET NO. 2-F

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



-#5 BARS @ 12" CTS EACH WAY/EACH FACE

EXISTING DRAINAGE STRUCTURE

TRAFFIC BEARING TOP SLAB

-1" MINIMUM GROUT BED Entire Width of Slab

1'-0" MAX.

ELEVATION

OPTIONAL MANHOLE FRAME AND COVER SEE METRIC STD.NO. 840.54

2" CLR. TYP.

BILL OF MATERIAL

TRAFFIC BEARING TOP SLAB

BAR NO. SIZE LENGTH WEIGHT

\$1 8 #5 6'-6" 54.2

\$2 7 #5 7'-4" 53.5

TOTAL REINF. STEEL (lbs.) 107.7

CLASS "B" CONC. (cu.yds.) 1.2

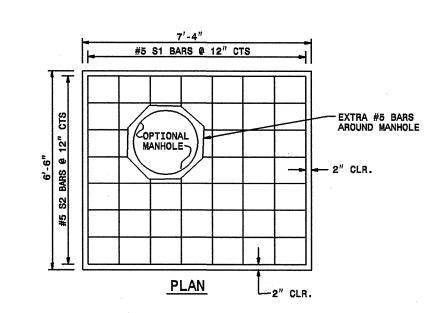
GENERAL NOTES:

QUANTIES FOR TRAFFIC BEARING TOP SLAB ARE CALCULATED FOR A TYPICAL SIZE CATCH BASIN HOUSING 12" THROUGH 36" PIPES

USE 4000 PSI COMPRESSIVE STRENGTH CONCRETE.

ADJUST QUANTIES FOR MANHOLE CONSTRUCTION

* DIMENSIONS MAY VARY AND SHOULD BE FIELD CONFIRMED



PRECAST TRAFFIC BEARING TOP SLAB FOR EXISTING BOXES

SHEET 1 OF 1 trficbearslab

PROJECT SERVICES UNIT STANDARDS AND SPECIAL DESIGN Office 919-250-4128 FAX 919-250-4119

SEE PLATE FOR TITLE

ORIGINAL BY: E.E. WARD DATE: 11-98
MODIFIED BY: DATE: DATE: DATE: TILE SPEC.: ds172:\usr\datail\stand\trichearslab.dgn

RECAST TRAFFIC BEARING FOR SLAB FOR EXISTING BOXES

SHEET 1 OF 1 trficbearslab

I2-JAN-2007 III5 stycomytects (compage 2012) stycomytects (compage 2012) stycomytects (compage 2012)

PROJECT NO.	SHEET NO,
37620, ETC.	3

							SUM	MAR	YO	F Q	UAN	TITI	ES							
PROJECT	COUNT	Y MAP	ROUTE	DESCRIPTION	ТҮР	LENGTH	WIDTH	SUPP.	UNDERCUT EXCAVATION	GRADING (LUMP SUM)		FOUNDATION COND. MATL.,	15" SIDE	18" SIDE DRAIN PIPE	15" PIPE	18" PIPE	36" PIPE	15" PARALLEL PIPE END SECTIONS	PIPE REMOVAL	AGGREGATE BASE COURSE
NO		NO			NO	MI	FT	AC	CY	LS	СУ	TON	LF	LF	LF	LF	LF	EA	LF	TONS
37620	Moore	. 1		FROM MEMORIAL DRIVE TO 640' NORTH OF CARRIAGE OAKS DRIVE	1,2,3	10.80	24 - 60	1	150	1.00	100	538	64	240	1,080	92	16	2	236	25
	FOR PRO				17.17.	10.80		1	150	1.00	100	538	64	240	1,080	92	16	2	236	25
40869	Moore		US 15/501	SIGNAL INSTALLATIONS ON US 15/501 AT SR 1838 (MCCASKILL ROAD) AND NC 73																
TOTAL	FOR PR	OJ NO.	40869			L			1		<u> </u>	<u> </u>	I	<u> </u>				1	<u> </u>	
8CR.10631.7	Moore	3		FROM CJ SOUTH OF TRAFFIC CIRCLE TO MEMORIAL DRIVE (TO INCLUDE ICIRCLE)	4	2.10	14 - 26													
8CR.10631.7				FROM 640' NORTH OF CARRIAGE OAKS DRIVE TO 280' WEST OF SR 1946	5	1.31	24 - 36													
TOTAL FO						3.41													<u> </u>	
	GRAND 1	TOTAL		T T		14.21	<u> </u>	1	150	1.00	100	538	64	240	1,080	92	16	2	236	25

PROJECT	COUNT		ROUTE	DESCRIPTION	SHOULDER RECONSTRUCTION		INCIDENTAL MILLING	BASE COURSE, B25.0C	SURFACE COURSE, S9.5C	PG 64-22 PLANT MIX TONS	PG 70-22 PLANT MIX TONS	ASPHALT PLANT MIX, PAVEMENT REPAIR TONS	PATCHING EXISTING PAVEMENT TONS	MILLED RUMBLE STRIPS, 16"	MILLED RUMBLE STRIPS, 12"	RIGHT OF WAY MARKER EA	PIPE COLLAR	MASONRY DRAINAGE STRUCTURE	FRAME W/GRATE, STD. 840.16	FRAME W/GRATE STD. 840.29
NO		NO			SMI	SY	SY	TONS	TONS	IONS	IONS	IUNS	IONS	L.F	LF	EA	<u> </u>	EA	EA .	EA
37620	Moore	. 1		FROM MEMORIAL DRIVE TO 640' NORTH OF CARRIAGE OAKS DRIVE	14.36		2,900	20,225	24,275	881	1,457	60	1,720			3	5	5	4	11
TOTAL	FOR PR	OJ NO.	37620		14.36		2,900	20,225	24,275	881	1,457	60	1,720			3	5	5	4	1
40869 TOTAL	Moore FOR PR		US 15/501	SIGNAL INSTALLATIONS ON US 15/501 AT SR 1838 (MCCASKILL ROAD) AND NC 73																
8CR.10631.7	Moore	3		FROM CJ SOUTH OF TRAFFIC CIRCLE TO MEMORIAL DRIVE (TO INCLUDE CIRCLE)		1,494	622		3,605		216		154	3,360	2,000					
8CR.10631.7				FROM 640' NORTH OF CARRIAGE OAKS DRIVE TO 280' WEST OF SR 1946		·	156		1,975		118		125							
TOTAL FO						1,494	778		5,580		334		279	3,360	2,000					
				L																
	GRAND	ΤΩΤΔΙ			14.36	1,494	3,678	20,225	29,855	881	1,791	60	1,999	3,360	2,000	3	5	5	4	1

PROJECT	COUNTY	MAP	ROUTE	DESCRIPTION	8" X 12" CONCRETE CURB	SHOULDER BERM GUTTER		5" MONOLITHIC CONCRETE ISLAND (KEYED IN)	CONCRETE BARRIER, TYPE T-77	METER OR VALVE BOX	ТО ЈВ	STEEL BEAM GUARDRAIL	GUARDRAIL, SHOP CURVED	GUARDRAIL POSTS	GUARDRAIL ANCHOR UNIT, TYPE AT-1	UNIT, TYPE 350		PLAIN RIP RAP, CLASS B	FILTER FABRIC FOR DRAINAGE	BREAKDOWN & REBUILD EXISTING MANHOLE
NO		NO			LF	LF	SY	SY	LF	EA	EA	LF	LF	EA	EA	EA	EA	TON	SY	<u>EA</u>
37620	Moore		US 15/501	FROM MEMORIAL DRIVE TO 640' NORTH OF CARRIAGE OAKS DRIVE	130	25	18	420	90	1	1	3062.5	112.5	5	44	10 10	8	51 51	150 150	11
TOTAL	. FOR PRO) NO. 3	7620		130	25	18	420	90	1 1	11	3062.5	112.5	3	4	10	. •	31	1 190	
40869 TOTAL	Moore FOR PRO		US 15/501 10869	SIGNAL INSTALLATIONS ON US 15/501 AT SR 1838 (MCCASKILL ROAD) AND NC 73																
8CR.10631.7	7 Moore	3		FROM CJ SOUTH OF TRAFFIC CIRCLE TO MEMORIAL DRIVE (TO INCLUDE CIRCLE)																
			US 15/501	FROM 640' NORTH OF CARRIAGE OAKS DRIVE TO 280' WEST OF SR 1946				·												
TOTAL FO	OK PROJ I	NO. Res	urracing	<u>L</u>	<u> </u>	<u> </u>			L	I	<u></u>	L			L	L	L			
	GRAND T	OTAL			130	25	18	420	90	1	1	3062.5	112.5	5	4	10	8	51	150	1

PROJECT NO.	SHEET NO.
37620, ETC.	3-A

													PROJEC	CT NO.	SHEET NO.
													37620,	ETC.	3-A
						SUMMA	ARY O	F QU	ANTIT	IES					
PROJECT	COUNTY	MAP	ROUTE	DESCRIPTION	10" WATER LINE	10" VALVE	ABANDON 10" UTILITY PIPE (AC WATER)	TEMPORARY SILT FENCE	EROSION CONTROL STONE, CLASS A	EROSION CONTROL STONE, CLASS B	SEDIMENT CONTROL STONE	SILT EXCAVATION	MATTING (EROSION CONTROL)	PERMANENT SOIL REINFORCEMENT MAT	SEEDING & MULCHING
· NO		NO						LF	TON	TON	TON	CY	SY	SY	AC
37620	Moore	1		FROM MEMORIAL DRIVE TO 640' NORTH OF CARRIAGE OAKS DRIVE	3,528	2	3,528	12,328	70	140	80	1,050	6,460	30	8
TOTAL	FOR PRO				3,528	2	3,528	12,328	70	140	80	1,050	6,460	30	8
40869	Moore	2	US 15/501	SIGNAL INSTALLATIONS ON US 15/501 AT SR 1838 (MCCASKILL ROAD) AND NC 73							,	·		-	
TOTAL	FOR PRO									·					
8CR.10631.7	Moore	3	US 15/501	FROM CJ SOUTH OF TRAFFIC CIRCLE TO MEMORIAL DRIVE (TO INCLUDE CIRCLE)											
8CR.10631.7		1		FROM 640' NORTH OF CARRIAGE OAKS DRIVE TO 280' WEST OF SR 1946			·								
TOTAL FO	OR PROJ N									1			<u> </u>	<u> </u>	
	GRAND TO	OTAL		T	3,528	7	3,528	12,328	70	140	80	1,050	6,460	30	8

PROJECT	COUNTY	MAD	ROUTE	DESCRIPTION	SEED FOR REPAIR	FERTILIZER FOR	RESIDENTIAL	FURNISH &	INSTALL VEHICLE	INSTALL VEHICLE	FURNISH &	TRENCHING	FURNISH & INSTALL	FURNISH &	FURNISH &
PROJECT	COONT	IAIWL	ROUTE	DESORT FIOR	SEEDING	REPAIR SEEDING	SEEDING	INSTALL 14-7	SIGNAL HEAD	SIGNAL HEAD (12",	INSTALL 3/8"	(UNPAVED)	12" X 18" LOOP	INSTALL 40' CLASS	INSTALL
				· ·	OLLO III O	THE THIR GEEDING		TRAFFIC	(12", 3 SECT.)	5 SECT.)	EXTRA HIGH	` ,	DETECTOR	3 WOOD POLE, TO	REGULAR
,								SIGNALCABLE			STRENGTH GALV. SPAN WIRE		PULL/SPLICE BOX IN THE NATURAL GROUND	INCLUDE GROUNDING	ANCHOR W/GUY GUARD
NO		NO			LB	TON	ACR	LF	EA	EA	LF	LF	EA	EA	EA
		1		FROM MEMORIAL DRIVE TO 640' NORTH								•			•
37620	Moore	1	US 15/501	OF CARRIAGE OAKS DRIVE	61	0.25	1 '					60	11		
TOTAL	FOR PRO	J NO.	37620		61	0.25	1					60	11		
										.,				· ·	T
40869	Moore	2		SIGNAL INSTALLATIONS ON US 15/501 AT SR 1838 (MCCASKILL ROAD) AND NC 73				900	11	3	800	1,650	15	14	14
	FOR PRO							900	11	3	800	1,650	15	14	14
				1				·						<u></u>	
8CR.10631.7	Moore	3		FROM CJ SOUTH OF TRAFFIC CIRCLE TO MEMORIAL DRIVE (TO INCLUDE CIRCLE)											,
8CR.10631.7	Moore	4	1	FROM 640' NORTH OF CARRIAGE OAKS DRIVE TO 280' WEST OF SR 1946				·			·				
TOTAL FO	R PROJ N	IO. Re	surfacing											<u></u>	1
													·		
	GRAND TO	OTAL			61	0.25	1	900	11	3	800	1,710	16	14	14
									,		•		4		
PROJECT	COUNTY	MAF	ROUTE	DESCRIPTION	FURNISH & INSTALL	FURNISH & INSTALL	FURNISH &	FURNISH &	FURNISH &	INSTALL BASE	MOMENT SLAB				

PRO	OJECT	COUNTY	MAP	ROUTE	DESCRIPTION	FURNISH & INSTALL 1" RIGID GALV. CONDUIT W/WEATHERHEAD	FURNISH & INSTALL 2" RIGID GALV. CONDUIT WWEATHERHEAD	FURNISH & INSTALL LOOP DETECTORS AND LEAD-INS	FURNISH & INSTALL 14/2 SHIELDED CABLE FOR LOOP DETECTOR LEAD-IN	CONCRETE	INSTALL BASE MOUNTED CABINET & CONTROLLER (TO BE GROUNDED PER NCDOT SPECS.	1
	NO		NO		·	EA	EA	LF	LF	. EA	EA	LF
	7620	Moore			FROM MEMORIAL DRIVE TO 640' NORTH OF CARRIAGE OAKS DRIVE			200	270			110
		FOR PROJ						200	270			110
											T	T
4	0869	Moore	2	1	SIGNAL WORK ON US 15/501 AT SR 1838 (MCCASKILL ROAD) AND NC 73	4	9	1,300	3,300	2	2	
<u>-</u>		FOR PROJ		·		4	9	1,300	3,300	2	2	
									*	·	·	T
		Moore	3		FROM CJ SOUTH OF TRAFFIC CIRCLE TO MEMORIAL DRIVE (TO INCLUDE CIRCLE)							
		Moore			FROM 640' NORTH OF CARRIAGE OAKS DRIVE TO 280' WEST OF SR 1946		·	100	300			
T	OTAL FO	OR PROJ NO						100	300			
		GRAND TO	ΤΔΙ			4	9	1,600	3,870	2	2	110

PROJECT NO.	SHEET NO.
37620, ETC.	3-B

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				THERMOPL	ASTI	CA	ND	PAI	NT	QUA	NTI	TIES			
PROJECT	COUNTY	MAP	ROUTE	DESCRIPTION	TEMPORARY WORK ZONE TRAFFIC CONTROL	4" X 90 M WHITE THERMO	4" X 90 M YELLOW THERMO	4" X 120 M WHITE THERMO	4" X 120 M YELLOW THERMO	8" X 90 M WHITE THERMO	8" X 90 M YELLOW THERMO	8" X 120 M WHITE THERMO	8" X 120 M YELLOW THERMO	12" X 90 M WHITE THERMO	24" X 120 M WHITE THERMO
NO		NO			LS	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF
37620	Moore	1		FROM MEMORIAL DRIVE TO 640' NORTH OF CARRIAGE OAKS DRIVE	1.00 1.00	109,000 109.000	1,000 1,000	8,000 8,000	111,000 111,000	1,500 1,500		`	·		220 220
TOTAL	FOR PRO	J NO. 3	37620		1.00		.000	1	9.000		500		L		
		1					ĺ		l						
40869	Moore	2		SIGNAL INSTALLATIONS ON US 15/501 AT SR 1838 (MCCASKILL ROAD) AND NC 73	·										
TOTAL	FOR PRO	J NO.	40869				<u> </u>				1				·
				FROM CJ SOUTH OF TRAFFIC CIRCLE TO								·			
8CR.10631.7	Moore	3	US 15/501	MEMORIAL DRIVE (TO INDLUDE CIRCLE)		8,500	4,550	1,830	1,200	900	2,500	3,840		500	150
8CR.10631.7	Moore	4	US 15/501	FROM 640' NORTH OF CARRIAGE OAKS DRIVE TO 280' WEST OF SR 1946		3,600	1,800	500	5,500			300	1,155		120
TOTAL FO	P PPO IA	IO Par	urfacing			12,100	6,350	2,330	6,700	900	2,500	4,140	1,155	500	270
TOTALTO	1. 1.100 1	T. Nes	r		<u> </u>	18	,450	s	,030	3	400	5	,295		-
	<u> </u>	<u></u>	L	· · · · · · · · · · · · · · · · · · ·	1.00	121,100	7,350	10,330	117,700	2,400	2,500	4,140	1,155	500	490
•	GRAND T	OTAL			1		3,450		28,030	4	,900	5	,295		

NO NO FROM MEMORIAL DRIVE TO 640' NORTH 8 FROM MEMORIAL DRIVE TO 640' NORTH 8 8 10 135 100 NORTH 1 US 15/501 OF CARRIAGE OAKS DRIVE 8 100 NORTH 1 US 15/501 OF CARRIAGE OAKS DRIVE 8 100 NORTH 1 US 15/501 OF CARRIAGE OAKS DRIVE 8 100 NORTH 1 US 15/501 OF CARRIAGE OAKS DRIVE 8 100 NORTH 1 US 15/501 OF CARRIAGE OAKS DRIVE 8 100 NORTH 1 US 15/501 OF CARRIAGE OAKS DRIVE 8 100 NORTH 1 US 15/501 OF CARRIAGE OAKS DRIVE 8 100 NORTH 1 US 15/501 OF CARRIAGE OAKS DRIVE 1 NORTH 1 US 15/501 OF CARRIAGE OAKS DRIVE 1 NORTH 1 NORT	RT STR & LT PLOWA DW ARROW MARKI	THERMO LT STR RT ARROW 90 M	THERMO MERGE ARROW 90 M	THERMO STR & RT ARROW 90 M	THERMO STR ARROW 90 M	THERMO RT ARROW 90 M	THERMO LT ARROW 90 M	THERMO MSG AHEAD 120 M	THERMO MSG YIELD 120 M	THERMO MSG LANE 120 M	THERMO MSG NC211 120 M	THERMO MSG NC2 120 M	THERMO MSG RIGHT 120 M	THERMO MSG ONLY 120 M	DESCRIPTION	ROUTE	Y MAP	COUNTY	PROJECT
37620 Moore 1 US 15/501 OF CARRIAGE OAKS DRIVE 8 8 3 3 3	EA EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA			NO		NO
3/620 Moore 1 US 15/501 OF CARRIAGE CIARS DRIVE 5 8 34 29 16 3 3 3 TOTAL FOR PROJ NO. 37620 8 5 1335 SIGNAL INSTALLATIONS ON US 15/501 AT SIGNAL INSTALLATIONS	1,50							•											
TOTAL FOR PROJ NO. 37620 8 135 40869 Moore 2 US 15/501 SR 1838 (MCCASKILL ROAD) AND NC 73 TOTAL FOR PROJ NO. 40869 8CR.10631.7 Moore 3 US 15/501 MEMORIAL DRIVE (TO INDLUDE CIRCLE) 36 10 3 5 8 3 18 4 15 1 8CR.10631.7 Moore 4 US 15/501 DRIVE TO 280 WEST OF SR 1946	1,50			<u> </u>				<u> </u>	 				<u></u>	8	OF CARRIAGE OAKS DRIVE	US 15/501	1	Moore	37620
40869 Moore 2 US 15/501 SIGNAL INSTALLATIONS ON US 15/501 AT TOTAL FOR PROJ NO. 40869 BCR.10631.7 Moore 3 US 15/501 MEMORIAL DRIVE (TO INDLUDE CIRCLE) 36 10 3 5 8 3 18 4 15 1 BCR.10631.7 Moore 4 US 15/501 DRIVE TO 280' WEST OF SR 1946	1,30	1		<u> </u>	16	29	84	1	<u> </u>	<u> </u>		<u> </u>	1	8		37620	O.I NO	FOR PRO	TOTAL
40869 Moore 2 US 15/501 SR 1838 (MCCASKILL ROAD) AND NC 73 TOTAL FOR PROJ NO. 40869 8CR.10631.7 Moore 3 US 15/501 MEMORIAL DRIVE (TO INDLUDE CIRCLE) 36 10 3 5 8 3 18 4 15 1 8CR.10631.7 Moore 4 US 15/501 FROM 640' NORTH OF CARRIAGE OAKS DRIVE TO 280' WEST OF SR 1946		T		135	Т	T				T	- 8	·				07020			TOTAL
40869 Moore 2 US 15/501 SR 1838 (MCCASKILL ROAD) AND NC 73 TOTAL FOR PROJ NO. 40869 8CR.10631.7 Moore 3 US 15/501 MEMORIAL DRIVE (TO INDLUDE CIRCLE) 36 10 3 5 8 3 18 4 15 1 8CR.10631.7 Moore 4 US 15/501 FROM 640' NORTH OF CARRIAGE OAKS DRIVE TO 280' WEST OF SR 1946		1		 	 					ļ					Anna anna anna anna anna anna anna anna				
TOTAL FOR PROJ NO. 40869 SCR.10631.7 Moore 3 US 15/501 FROM CJ SOUTH OF TRAFFIC CIRCLE TO MEMORIAL DRIVE (TO INDLUDE CIRCLE) 36 10 3 5 8 3 18 4 15 1																			40000
8CR.10631.7 Moore 3 US 15/501 MEMORIAL DRIVE (TO INDLUDE CIRCLE) 36 10 3 5 8 3 18 4 15 1 8CR.10631.7 Moore 4 US 15/501 DRIVE TO 280' WEST OF SR 1946 5 5 5 23 2 1 4		<u></u>	<u> </u>			· L	-			L					SK 1030 (MCCASKILL KOAD) AND NO 13	05 15/501	1 2	Ivioore	40809
8CR.10631.7 Moore 3 US 15/501 MEMORIAL DRIVE (TO INDLUDE CIRCLE) 36 10 3 5 8 3 18 4 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								T	T		T	T	T			40869	OJ NO.	FOR PRO	TOTAL
8CR.10631.7 Moore 3 US 15/501 MEMORIAL DRIVE (TO INDLUDE CIRCLE) 36 10 3 5 8 3 18 4 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1														i			T		
8CR.10631.7 Moore 4 US 15/501 DRIVE TO 280' WEST OF SR 1946 5 5 23 2 1 4	1 193	1		15	4	18	3			8	. 5	3	10				3	Moore	8CR.10631.7
	103		4	1	2		23	5	5					·	FROM 640' NORTH OF CARRIAGE OAKS				
	1 29	<u></u>	1 4		6	18	26	5	5	8	5	3	10	36		<u> </u>		1	
TOTAL FOR PROJ NO. Resurfacing 72				72							72					surracing	NO. Re	K PKUJ	IUIALFO
	1 1,79	+	 	40	 	<u> </u>			<u> </u>									,	
GRAND TOTAL 44 10 3 5 8 5 5 110 47 22 19 7 1 80 207	1,73		1		22	4/	110	5	5	<u> 8</u>		3	10	44			TOTAL	GRANDT	

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

Kimley-Horn and Associates, Inc.

PROJECT REFERENCE NO. WBS 37620

SHEET NO.

"N" — DISTANCE FROM EDGE OF LANE TO FACE OF GUARDRAIL

TOTAL SHOULDER WIDTH — DISTANCE FROM EDGE OF TRAVEL LANE TO SHOULDER BREAK POINT.

FLARE LENGTH — DISTANCE FROM LAST SECTION OF PARALLEL GUARDRAIL TO END OF GUARDRAIL

W — TOTAL WIDTH OF FLARE FROM BEGINNING OF TAPER TO END OF GUARDRAIL

G — GATING IMPACT ATTENUATOR TYPE 350

NG — NON-GATING IMPACT ATTENUATOR TYPE 350

GUARDRAIL SUMMARY

STRAIGHT CHIVED COUNTY END SHOT END SHO			30-37							UL			MA.	L	36	IV	LIVI			<u> </u>								
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1	SURVEY LINE	BEG. STA.	END STA.	LOCATION	STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END	FROM E.O.L.	SHOULDER WIDTH	APPROACH END	TRAILING END	APPROACH END	TRAILING END	TYPE 350	111	AT-1	MOD	B-77								REMAULS
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STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

Kimley-Hom	PROJECT REFERENCE
Kimley-Hom and Associates, Inc.	WBS 37620

ROJECT REFERENCE NO. SHEET
WBS 37620 3-

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NOTE

APPROXIMATE QUANTITIES ONLY. UNCLASSIFIED EXCAVATION, BORROW EXCAVATION, SHOULDER BORROW, FINE GRADING, CLEARING & GRUBBING, BREAKING OF EXISTING PAVEMENT, AND REMOVAL OF EXISTING PAVEMENT WILL BE PAID FOR AT THE LUMP SUM PRICE FOR "GRADING".

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

SUMMARY OF EARTHWORK

IN CUBIC YARDS

LOCATION	STATION	STATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT+%	BORROW	WASTE
INTERSECTION #	 						
L_	17+56.84	30+10.00	388		445	57	
-Y1-	11+74.53	12+87.35	3		10	7	
TOTAL INTERSECT	ри #1 ————————————————————————————————————		391		455	64	
INTERSECTION #							
-L-	11+60.00	30+40.00	1282		2768	1486	
INTERSECTION #	8						
	14+55.00	20+29.00	426		595	169	
INTERSECTION #	10+00.00	24+55.00	3297		1104		2193
<u>-Y1</u> -	10+66.87	11+76.07	2		5	3	
TOTAL INTERSECT	 		3299		1109	3	2193
-							
INTERSECTION #	ā						
-L-	12+50.00	40+88.64	3447		2185	,	1262
INTERSECTION #	SA						
-	14+20.00	28+90.00	619		1049	430	
INTERSECTION #	5						
-L-	12+70.00	19+43.56	233		588	355	
	19+43.56	28+35.72	162		1696	1534	
TOTAL INTERSECT	ЮN #6		395		2284	1889	
							_
SUB TOTAL			9859		10445	4041	3455
ADJUSTMENTS:		·					
EST. LOSS DUE TO	CLEARING &	GRUBBING	-1500			+1500	
EARTH TO REPL						- 3455	- 3455
REPLACING TOPS	OIL ON BORRO	PITS				114	
PROJECT TOTAL			8359			2200	0
GRAND TOTAL		1	8359			2200	0

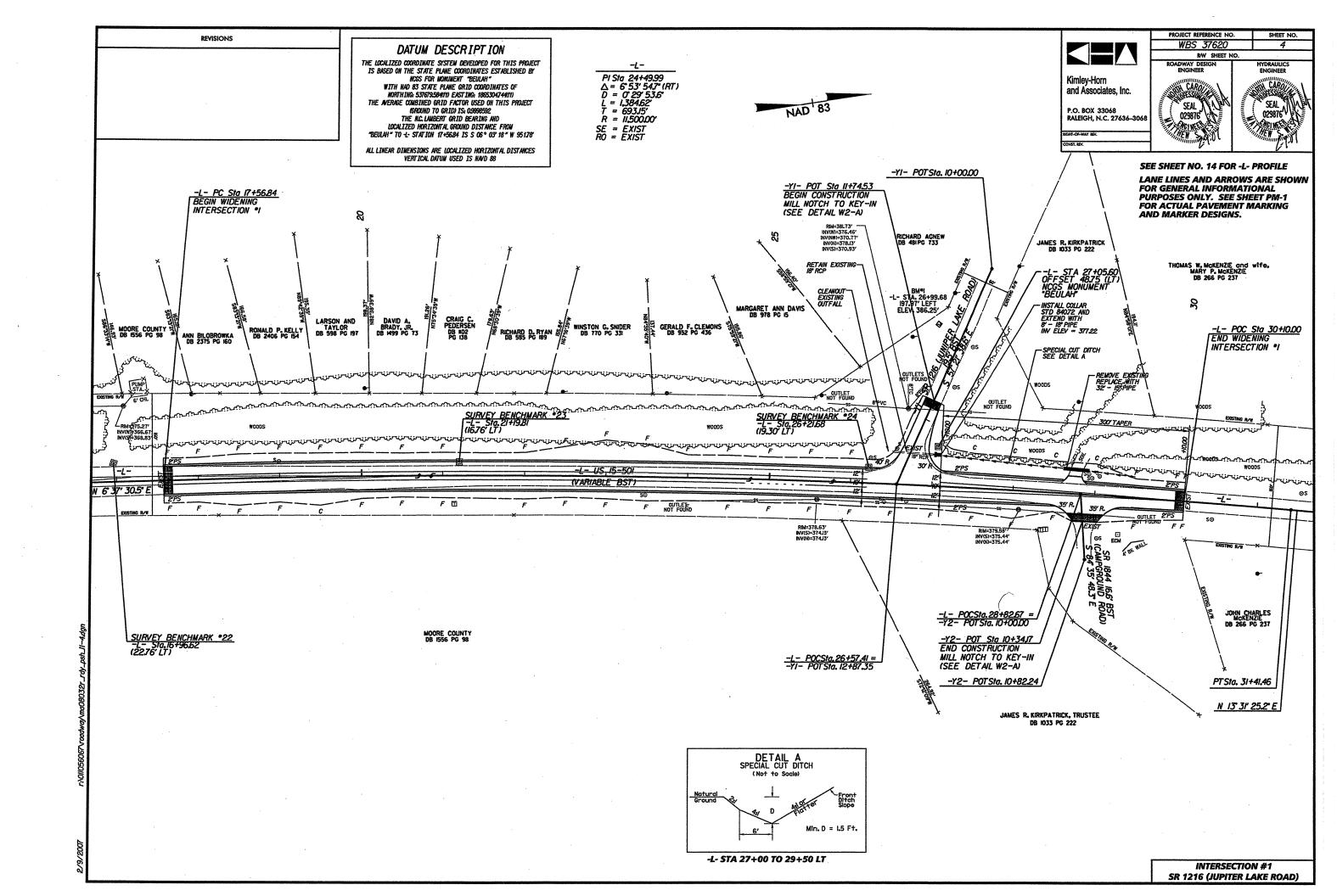
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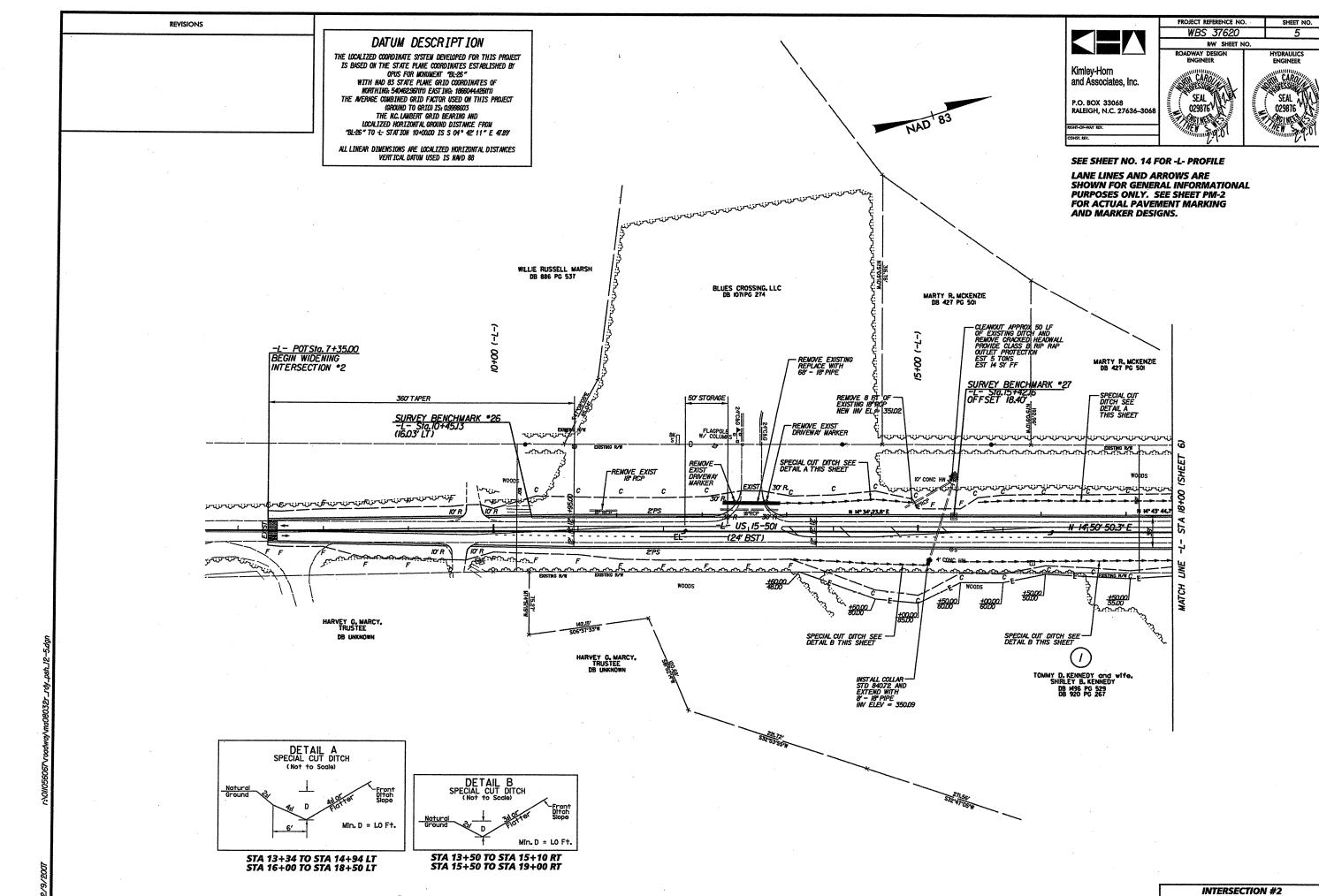
STATE OF NORTH CAROLINA . DIVISION OF HIGHWAYS

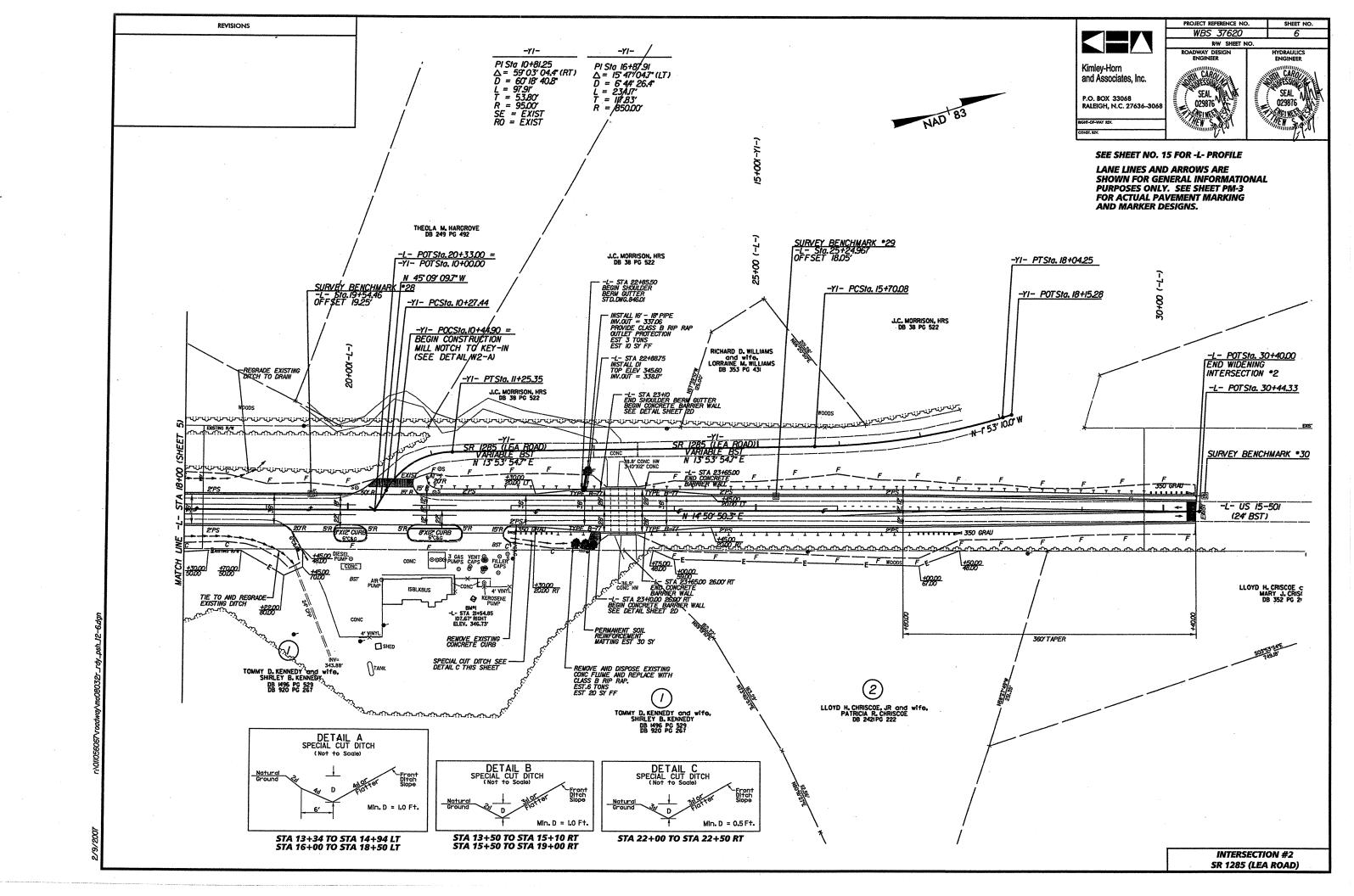
Kimley-Horn and Associates, inc.	PROJECT REFERENCE NO.	
distribution, inc.	WRS 37620	i

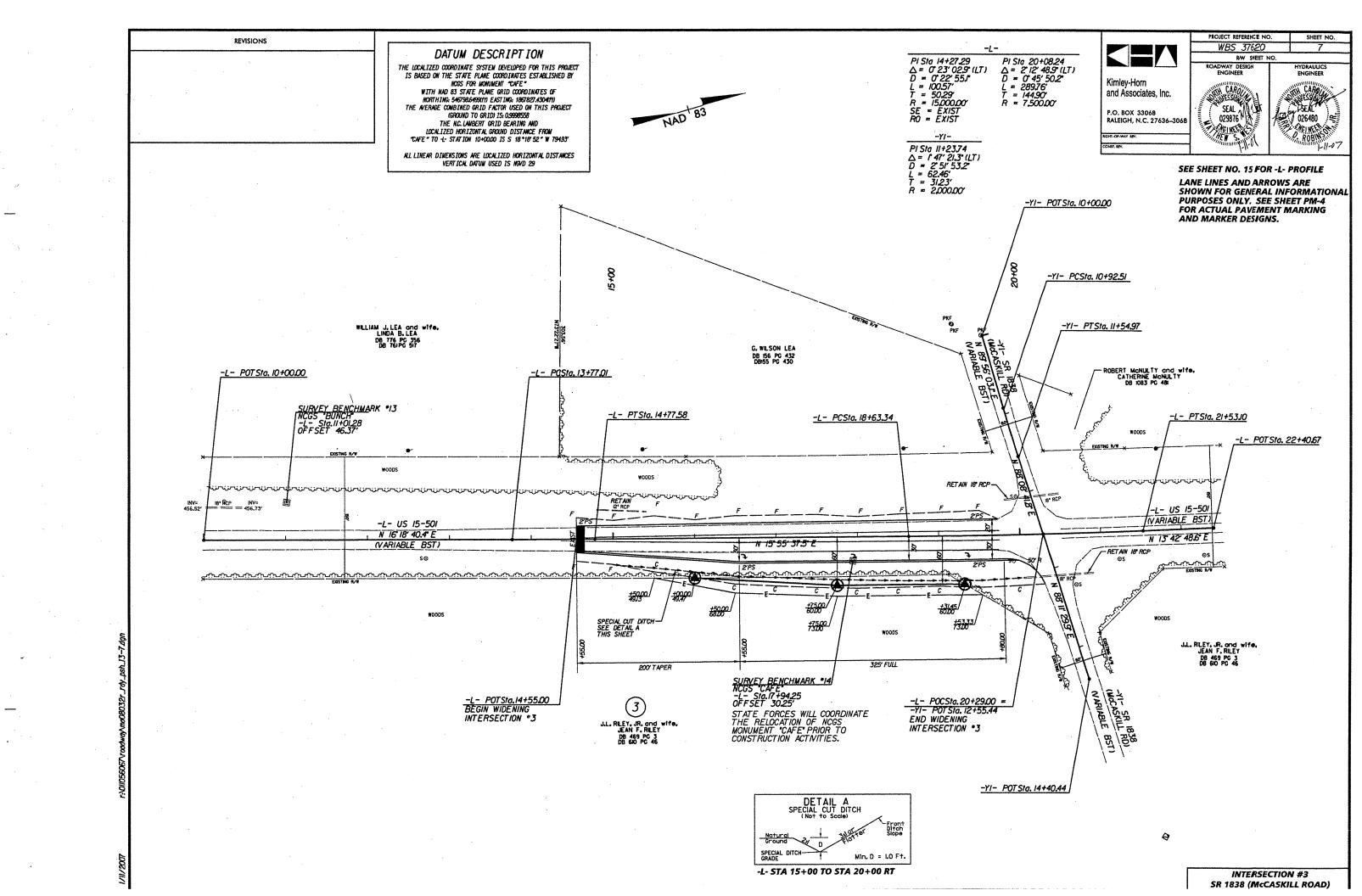


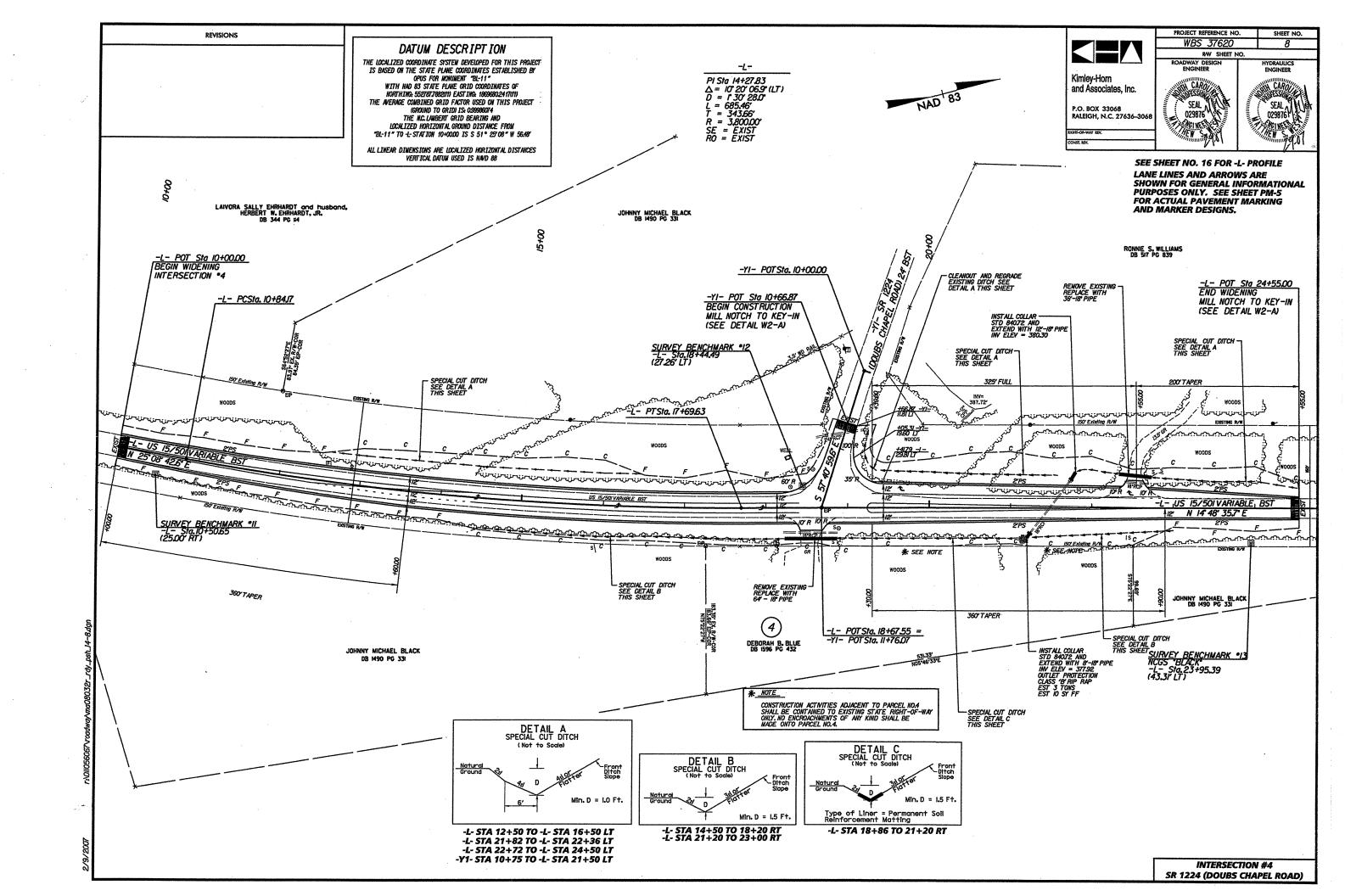
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CEL NO.	PROPERTY OWNERS NAME	TOTAL ACREAGE	AREA TAKEN	AREA REMAINING RIGHT	AREA REMAINING LEFT	CONSTR.	PERMANENT DRAINAGE EASEMENT	TEMPORARY DRAINAGE EASEMENT		PARCEL NO.	PROPERTY OWNERS NAME	TOTAL	AREA TAKEN	AREA REMAINING RIGHT	AREA REMAINING LEFT	CONSTR.	PERMANENT DRAINAGE EASEMENT	1	1
1	Tommy D. Kennedy and wife, Shirley B. Kennedy	10.08 AC				8259.94 SF													
2	Lloyd H. Chriscoe, Jr and wife, Patricia R. Chriscoe	3.08 AC				5112.46 SF													
3	J.L. Riley, Jr and wife, Jean F. Riley	58.28 AC	2696.12 SF	58.22 AC		4779.99 SF													\perp
4	Deborah B. Blue	1.75 AC																	_
5	Ronald K. Frye	1.01 AC																	_
6	Denton H. Frye	0.25 AC																	+
7	James Donald Black	1.25 AC																	
8	Larry H. Flinchum	0.65 AC				299.13 SF													_
9	R.H. Hendricks	11.23 AC				1135.00 SF	1080.00 SF												
10	Moore County Economic Development Corp.	13.46 AC				2062.27 SF													<u> </u>
11	Ralph Cox and Wife, Mollie B. Cox	1.13 AC				2463.76 SF													
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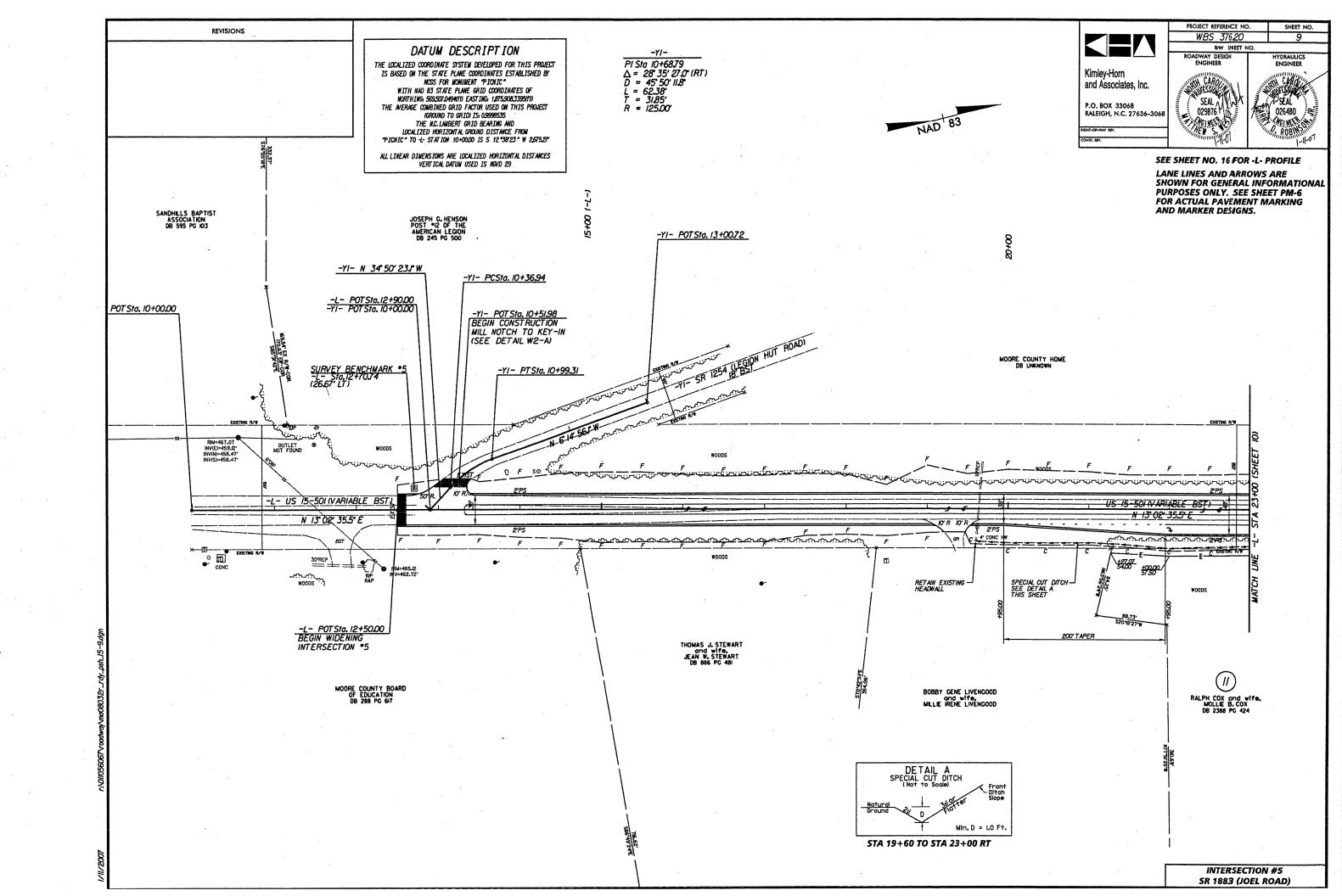


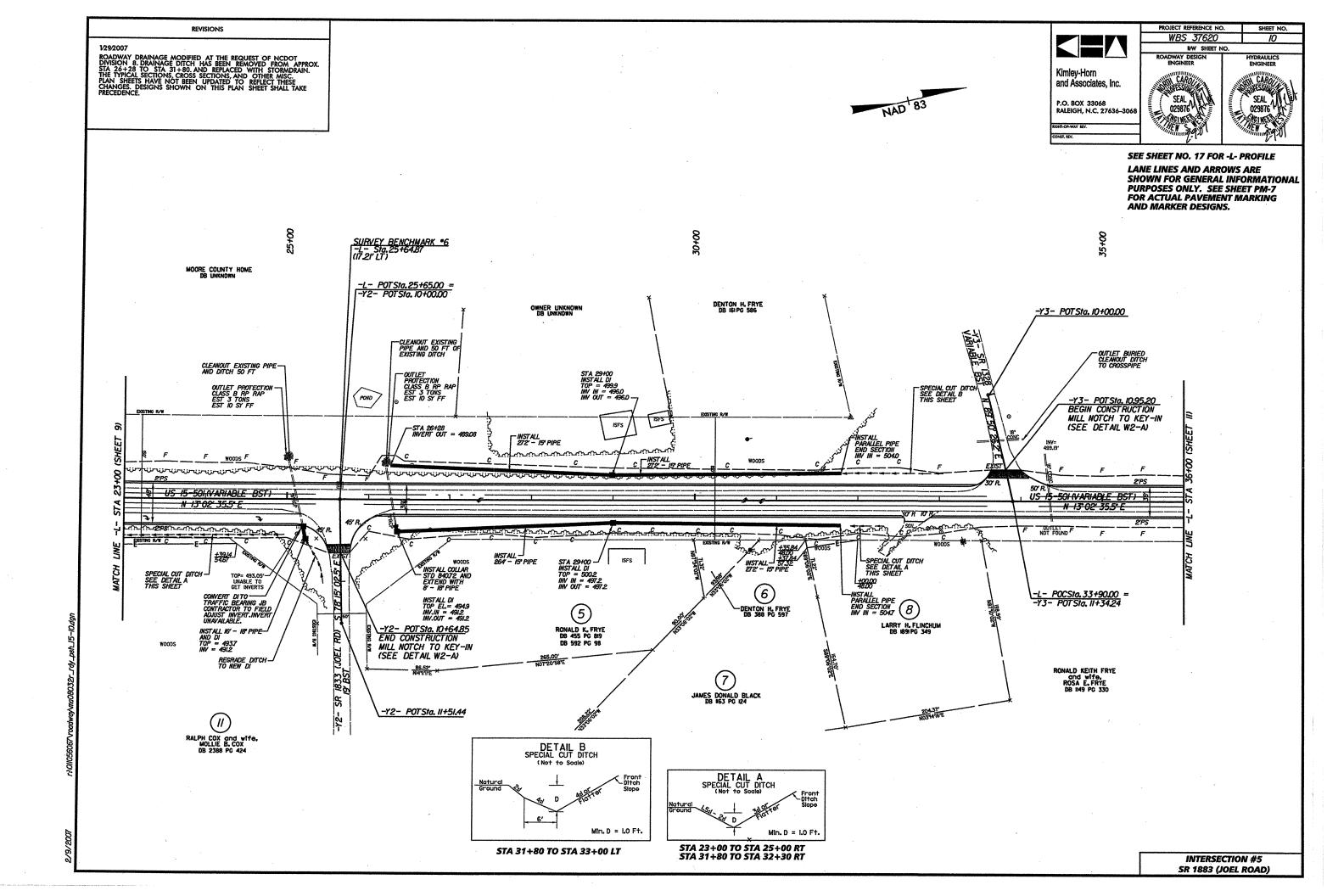


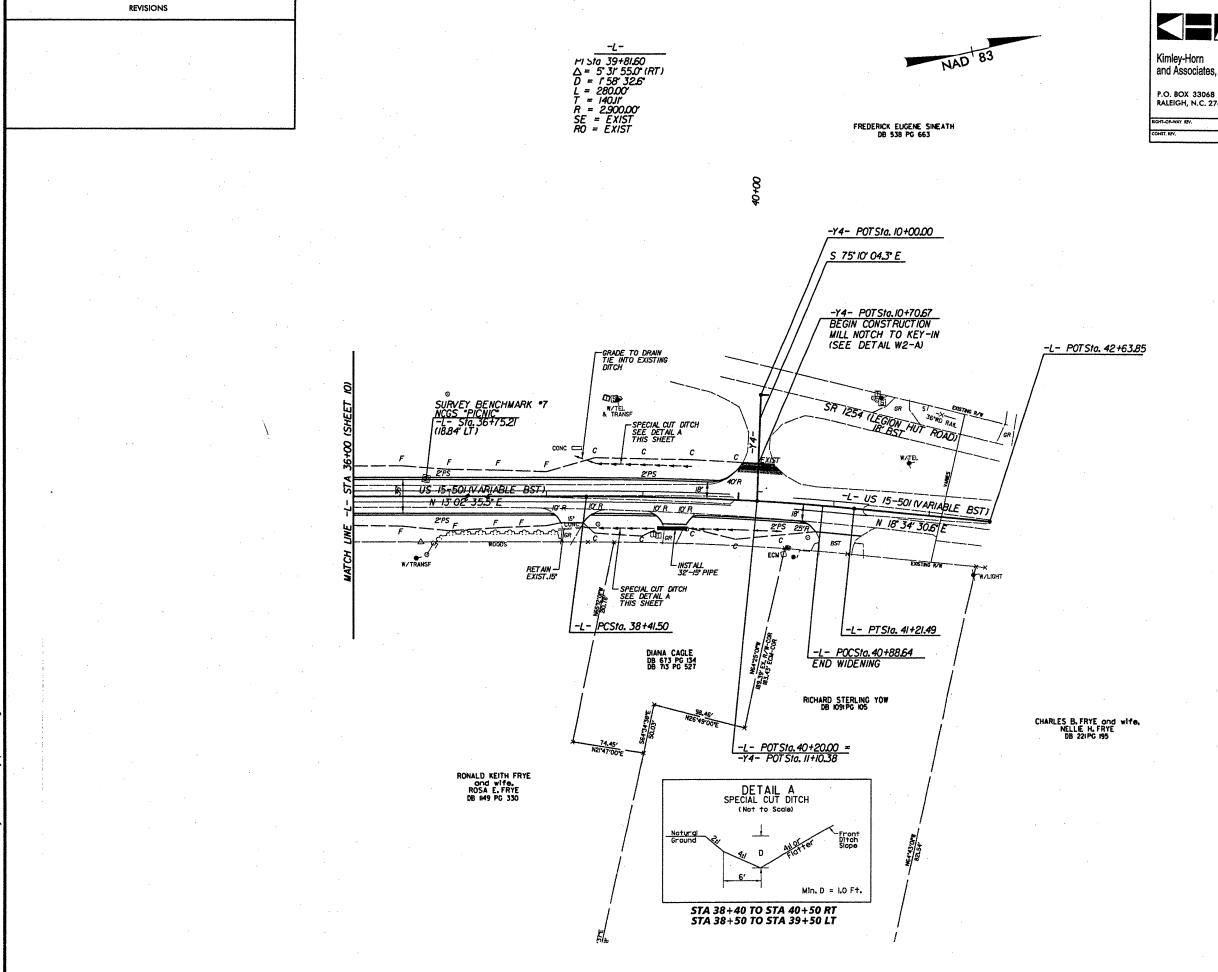












PROJECT REFERENCE NO. SHEET NO. WBS 37620 RW SHEET NO. HYDRAULICS ENGINEER ROADWAY DESIGN ENGINEER Kimley-Horn and Associates, Inc. SEAL MARIE OCCUPANTAL SEAL 026480 S POBMEN P.O. BOX 33068 RALEIGH, N.C. 27636-3068

SEE SHEET NO. 17 FOR -L- PROFILE

LANE LINES AND ARROWS ARE SHOWN FOR GENERAL INFORMATIONAL PURPOSES ONLY. SEE SHEET PM-8 FOR ACTUAL PAVEMENT MARKING AND MARKER DESIGNS.

