



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

PAT MCCRORY
GOVERNOR

NICHOLAS J. TENNYSON
SECRETARY

August 11, 2015

Addendum No. 1

RE: Contract ID C203513

WBS # 35781.3.FD1

F. A. # STP-0220(72)

Pitt County (U-3315)

Stantonsburg Road/10th Street Connector From Memorial Drive
To SR-1702 (Evans Street)

August 18, 2015 Letting

To Whom It May Concern:

Reference is made to the plans and proposal form furnished to you on this project.

The following revisions have been made to the Roadway plans:

Sheet No.	Revisions
3D-1 thru 3D-14	Revise drainage summary to add 64" DIP as noted below and change a column heading from "Sealed Structure with Boots" to "Boots for Sealed Structures" and revised quantity of Boots
5	Revised to change 66" RCP to 64"DIP (Sealed) between drainage structure #0523 and #0527A
9	Added note "Not to Disturb Building" on Parcels # 210 and #211
11	Revised to remove "Sealed" from drainage structure #1111
TMP-3	Revised Step 4A from 30 days to 60 days and shortened the limits of drainage structure installation before the portable concrete barrier is removed
TMP-5	Showed drums where portable concrete barrier was removed

Please void the above listed sheets in your plans and staple the revised sheets thereto.

MAILING ADDRESS:
NC DEPARTMENT OF TRANSPORTATION
CONTRACT STANDARDS AND DEVELOPMENT UNIT
1591 MAIL SERVICE CENTER
RALEIGH NC 27699-1591

TELEPHONE: 919-707-6900
FAX: 919-250-4119

WEBSITE: www.ncdot.gov

LOCATION:
CENTURY CENTER COMPLEX
ENTRANCE B-2
1020 BIRCH RIDGE DRIVE
RALEIGH NC 27610

The following revisions have been made to the proposal:

Page No.	Revisions
Proposal Cover	Note added that reads "Includes Addendum No. 1 Dated August 11, 2015".
G-4	Revised the project special provision entitled "Intermediate Contract Time Number 5 and Liquidated Damages" from 30 days duration to 60 days
R-62	Added the project special provision entitled "Material Transfer Vehicle"
GV-1	Added a sentence to the second paragraph of the project special provision entitled "Contaminated Water and Soil"
GV-2	Changed "The" to "Each" in the second to last sentence of the second paragraph on this page
GV-3	In the section titled "Contaminated Soil" revised wording in first paragraph that states that the Department will obtain preapproval of temporary off-site stockpile locations
GV-11	Revised the last pay item in the list of pay items to read "Boots for Sealed Structures"

Please void the above listed pages in your proposal and staple the revised pages thereto.

On the item sheets the following pay item changes have been made:

<u>Item</u>	<u>Description</u>	<u>Old Quantity</u>	<u>New Quantity</u>
035-0448000000-E-310	66" RC Pipe Culverts, Class IV	568 LF	256 LF
057-0992000000-E-SP	Change "Structure Sealed with Boots" to " Boots for Sealed Structures "	27 EA	51 EA
100-2473000000-N-SP	Masonry Drainage Structures (Sealed)	17 EA	16 EA
366-0986000000-E-SP	64" Ductile Iron Pipe, Class 150 (Sealed)	NEW ITEM	321 LF

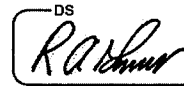
The Contractor's bid must include these pay item changes. The contract will be prepared accordingly.

The Expedite File has been updated to reflect these revisions. Please download the Expedite Addendum File and follow the instructions for applying the addendum. Bid Express will not accept your bid unless the addendum has been applied.

C203513

U-3315
Pitt County

Sincerely,



R. A. Garris, PE
Contract Officer

RAG/jag
Attachments

cc: Mr. Ron Hancock, PE
Mr. John Rouse, PE
Ms. D. M. Barbour, PE
Mr. Rodger Rochelle, PE
Mr. Mike Gwyn
Ms. Marsha Sample
Ms. Penny Higgins
Project File (2)

Mr. Ray Arnold, PE
Ms. Theresa Canales, PE
Mr. Glenn Mumford, PE
Mr. R.E. Davenport, PE
Mr. Ken Kennedy, PE
Ms. Jaci Kincaid
Ms. Lori Strickland

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH, N.C.

PROPOSAL

INCLUDES ADDENDUM No. 1 DATED 08-11-15

DATE AND TIME OF BID OPENING: **AUGUST 18, 2015 AT 2:00 PM**

CONTRACT ID C203513
WBS 35781.3.FD1

FEDERAL-AID NO. STP-0220(72)

COUNTY PITT

T.I.P. NO. U-3315

MILES 1.447

ROUTE NO.

LOCATION STANTONBURG RD/10TH ST CONNECTOR FROM MEMORIAL DR TO
SR-1702 (EVANS ST).

TYPE OF WORK GRADING, DRAINAGE, PAVING, SIGNING, SIGNALS, AND STRUCTURE.

NOTICE:

ALL BIDDERS SHALL COMPLY WITH ALL APPLICABLE LAWS REGULATING THE PRACTICE OF GENERAL CONTRACTING AS CONTAINED IN CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA WHICH REQUIRES THE BIDDER TO BE LICENSED BY THE N.C. LICENSING BOARD FOR CONTRACTORS WHEN BIDDING ON ANY NON-FEDERAL AID PROJECT WHERE THE BID IS \$30,000 OR MORE, EXCEPT FOR CERTAIN SPECIALTY WORK AS DETERMINED BY THE LICENSING BOARD. BIDDERS SHALL ALSO COMPLY WITH ALL OTHER APPLICABLE LAWS REGULATING THE PRACTICES OF ELECTRICAL, PLUMBING, HEATING AND AIR CONDITIONING AND REFRIGERATION CONTRACTING AS CONTAINED IN CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA. NOTWITHSTANDING THESE LIMITATIONS ON BIDDING, THE BIDDER WHO IS AWARDED ANY FEDERAL - AID FUNDED PROJECT SHALL COMPLY WITH CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA FOR LICENSING REQUIREMENTS WITHIN 60 CALENDAR DAYS OF BID OPENING.

BIDS WILL BE RECEIVED AS SHOWN BELOW:

THIS IS A ROADWAY & STRUCTURE PROPOSAL

5% BID BOND OR BID DEPOSIT REQUIRED

INTERMEDIATE CONTRACT TIME NUMBER 4 AND LIQUIDATED DAMAGES:

(2-20-07) (Rev. 6-18-13)

108

SPI G14 H

The Contractor shall complete the work required of **Phase I, Step #2** as shown on Sheet **TMP- 3** and shall place and maintain traffic on same.

The date of availability for this intermediate contract time is the date the Contractor elects to begin the work.

The completion date for this intermediate contract time is the date which is **thirty (30)** consecutive calendar days after and including the date the Contractor begins this work.

The liquidated damages are **Two Thousand Dollars (\$ 2,000.00)** per calendar day.

INTERMEDIATE CONTRACT TIME NUMBER 5 AND LIQUIDATED DAMAGES:

(2-20-07) (Rev. 6-18-13)

108

SPI G14 H

The Contractor shall complete the work required of **Phase I, Step #4A** as shown on **Sheet TMP- 3**.

The date of availability for this intermediate contract time is the date the Contractor elects to begin the work.

The completion date for this intermediate contract time is the date which is **sixty (60)** consecutive calendar days after and including the date the Contractor begins this work.

The liquidated damages are **Five Hundred Dollars (\$ 500.00)** per calendar day.

INTERMEDIATE CONTRACT TIME NUMBER 6 AND LIQUIDATED DAMAGES:

(2-20-07) (Rev. 6-18-13)

108

SPI G14 H

The Contractor shall complete the work required of **Phase I, Step #6** as shown on Sheet **TMP- 3** and shall place and maintain traffic on same.

The date of availability for this intermediate contract time is the date the Contractor elects to begin the work.

The completion date for this intermediate contract time is the date which is **forty-five (45)** consecutive calendar days after and including the date the Contractor begins this work.

The liquidated damages are **One Thousand Dollars (\$ 1,000.00)** per calendar day.

INTERMEDIATE CONTRACT TIME NUMBER 7 AND LIQUIDATED DAMAGES:

(2-20-07) (Rev. 6-18-13)

108

SPI G14 H

The Contractor shall complete the work required of **Phase II, Step #3** as shown on Sheet **TMP- 3** and shall place and maintain traffic on same.

Percentage of elapsed contract time is defined as the number of calendar days from the date of availability of the contract to the date the permanent seeding and mulching is acceptably completed divided by the total original contract time.

MATERIAL TRANSFER VEHICLE:

(5-27-09) (Rev. 07-19-13)

SPI 6-07A

Revise the *2012 Standard Specifications* as follows:

Page 6-26, Article 610-8 SPREADING AND FINISHING, delete the fourth paragraph and replace with the following:

Use a Materials Transfer Vehicle (MTV) when placing the final asphalt concrete plant mix surface course pavement unless otherwise approved by the Engineer. Use a MTV meeting Section 9.5(E) of the HMA/QMS Manual.

**PROJECT SPECIAL PROVISIONS
GEOENVIRONMENTAL**

CONTAMINATED WATER AND SOIL (8/6/2015)

The Contractor's attention is directed to the fact that groundwater and soil contaminated with petroleum hydrocarbon and chlorinated solvent compounds are documented to exist within the project area. The documented areas of groundwater and soil contamination are indicated on corresponding plan sheets. Workers in areas of concern with chlorinated solvent contaminated groundwater and/or soil are required to be trained in Hazardous Waste Operations and Emergency Response (HAZWOPER) according to OSHA 29 CFR1910.120. Information relating to these contaminated areas, sample locations, and investigation reports are available at the following web address by navigating to the correct letting year and month then selecting, "Plans and Proposals", "Pitt U-3315", "GeoEnv Postings":

<http://dotw-xfer01.dot.state.nc.us/dsplan/>

Non-Hazardous Contaminated Soil and Groundwater, and Hazardous Contaminated Soil and Groundwater may be encountered during any earthwork activities on the project. The Contractor shall develop a Health and Safety Plan and a Hazard Communication Plan in accordance with OSHA 29 Code of Federal Regulations and any other applicable Federal, State, or local regulations with regards to the known contaminated groundwater and soil. These plans shall be reviewed by the Engineer and Safety Engineer prior to any work being performed on the project. The Contractor is responsible for appropriate engineering controls and/or personal protective equipment for their employees and subcontractors. The Contractor shall only excavate those contaminated soils that the Engineer designates necessary to complete a particular task. Undisturbed soil shall remain in place, whether contaminated or not. If unusual odor or soil staining is discovered in areas not previously identified on the plans, the Contractor shall stop work and notify the Department's GeoEnvironmental Section.

Personnel working on the parcels shown in Table 1 below, with the potential for contact with the soil and groundwater, shall be HAZWOPER trained.

Parcel	12	Parcel	83	Parcel	103	Parcel	193
Parcel	13	Parcel	84	Parcel	104	Parcel	194
Parcel	52	Parcel	85	Parcel	105	Parcel	195
Parcel	53	Parcel	87	Parcel	106	Parcel	205
Parcel	55	Parcel	88	Parcel	110	Parcel	206
Parcel	75	Parcel	89	Parcel	171	Parcel	210
Parcel	77	Parcel	90	Parcel	186	Parcel	211
Parcel	79	Parcel	91	Parcel	187	Parcel	215
Parcel	80	Parcel	92	Parcel	190Z	Parcel	216
Parcel	81	Parcel	102	Parcel	191		

DEWATERING CONTAMINATED GROUNDWATER

The Contractor and Engineer shall determine if groundwater is contaminated as shown on the corresponding plan sheets and at the direction of the Department's specialty consultant. A total

of seven (7) Groundwater Source Zones will be established as shown in *U-3315 Provision Sheet 1* found in the link above. If dewatering is required in areas of documented groundwater contamination, then the Contractor shall discharge potentially contaminated dewatering effluent into storage vessels provided by the Department at the direction of the Department's specialty consultant. The Contractor shall provide the piping and choose the pathways from each site to the storage vessels. The Contractor shall be responsible for protecting the pipes between the sites and the storage vessel. The Contractor shall be responsible for any leaks or line ruptures between the site and the storage vessels. In the event of a potential for a spill or emergency, DOT retains the right to halt the Contractor's dewatering activities at any sites. The Department's specialty consultant shall be responsible for the sampling, treatment (if necessary), and disposal of the water.

Non-Hazardous Source Zones

A total of five (5) Non-Hazardous Source Zones will be established as shown in *U-3315 Provision Sheet 1*. The Department will supply two (2) mobile Groundwater Treatment Systems. The Contractor shall provide an area in each zone suitable for the Department's specialty consultant to setup, operate, and maintain a Groundwater Treatment System. Refer to *U-3315 Provision Sheet 2*, found in the link above, for the Groundwater Treatment System details and dimensions. Each of these systems will be designed to treat 100 gallons per minute. They can be used in two different zones or in series in a single zone to treat up to 200 gallons per minute. The Contractor shall limit their dewatering operations to either 100 gallons per minute or 200 gallons per minute, accordingly. The Contractor shall provide the Department's specialty consultant a minimum two-week notice prior to beginning excavation/dewatering activities in Non-Hazardous Source Zones and a minimum two-week prior notice before moving between Non-Hazardous Source Zones. Each mobile Groundwater Treatment System will require one (1) week to mobilize between sites. Prior to disposal, containerized water may require sampling and/or pre-treatment by the Department's specialty consultant before acceptance by the receiving facility.

Hazardous Source Zones

Two (2) Hazardous Source Zones will be established for the project as shown in *U-3315 Provision Sheet 1*. If dewatering is required in Hazardous Source Zones, then the Contractor shall utilize trench dewatering in lieu of well point dewatering. The Contractor shall provide sufficient area for storage operation and maintenance in these zones for two (2) 21,000-gallon storage tanks with an approximate footprint of 8.5'x 45' each. One tank is anticipated to be sufficient to receive the water from a single day of dewatering. The Contractor's dewatering shall be limited to 21,000 gallons per day for each storage tank. The second tank is anticipated to be used for holding previously accumulated water awaiting disposal. The storage tanks will be supplied by the Department. The Contractor shall provide the Department's specialty consultant a minimum two-week notice prior to beginning excavation/dewatering activities in either of the Hazardous Source Zones. The storage tanks will require one (1) week to set up on each site. Prior to disposal, containerized water may require sampling by the Department's specialty consultant before acceptance by the receiving facility.

Drainage Anti-Seep Collars

The Contractor shall construct Drainage Anti-Seep Collars of excavatable flowable fill with a minimum 35 PSI strength in locations shown on the plans and as indicated on the Anti-Seep Collar detail in the plans.

CONTAMINATED SOIL

Non-Hazardous Source Zones

The Engineer shall determine the presence of contaminated soil based upon petroleum odors and unusual soil staining and at the direction of the Department's specialty consultant. The Contractor shall stockpile all Non-Hazardous Contaminated Soil excavated from the project in a location approved by the Engineer. The Non-Hazardous Contaminated Soil stockpile shall be created within the property boundaries of the source material and in accordance with the Stockpile Detail found in the plans. The Department will obtain preapproval for temporary off site stockpile locations in the event the volume of Non-Hazardous Contaminated Soil exceeds available space on site. The Engineer shall notify the Department's specialty consultant of the Non-Hazardous Contaminated Soil stockpile and the Department's specialty consultant shall arrange for the testing and disposal of the contaminated stockpiled soil within two (2) weeks of notification.

Hazardous Source Zones

The Engineer shall determine the presence of contaminated soil in Hazardous Source Zones by the labeled contamination line type(s) on the corresponding plan sheets and at the direction of the Department's specialty consultant. Contaminated soil from these zones that requires excavation shall be loaded by the Contractor directly into covered, lined, 25 cubic yard roll-off boxes supplied by the Department and staged on site, at the direction of the Department's specialty consultant. The Hazardous Source Zone Contaminated Soil shall be stored on the site of origin until the contents are sampled and properly disposed by the Department's specialty consultant. The Contractor shall provide sufficient area for storage operation and maintenance in these zones for multiple roll-off boxes awaiting soil disposal which is estimated to be two (2) weeks. Each roll-off box is estimated to have an 8' x 23' footprint.

MEASUREMENT AND PAYMENT

Dewatering of contaminated groundwater shall be incidental to the project. Handling contaminated groundwater shall be incidental to the project. Petroleum Contaminated Soil and Chlorinated Solvent Contaminated Soil shall be determined to be either *Non-Hazardous Contaminated Soil* or *Hazardous Contaminated Soil* by the Department's specialty consultant. The excavation of contaminated soil shall be incidental to the project. Stockpiling Non-Hazardous Contaminated Soil and Loading Hazardous Contaminated Soil into roll-off containers will be paid as noted below.

The stockpiling of Non-Hazardous Contaminated Soil shall be the actual number of cubic yards of material, measured in a manner acceptable to the Engineer. Include in the unit bid price for *Stockpiling Non-Hazardous Contaminated Soil* all costs associated with this activity including stockpile construction material, and personal protective equipment.

U-3315

GV-11

Pitt County

The quantity of Ductile Iron Pipe (DIP) for the Special Sealed Drainage System measured as provided above and accepted will be paid for at the contract unit prices per linear foot for the various sizes.

The quantity of precast drainage structures for the Special Sealed Drainage System measured as provided above and accepted will be paid for at the contract unit price per each for the various diameters and at the contract unit price per vertical linear foot of depth for that portion of the drainage structure from a height of 5 feet to 10 feet. For that portion of the drainage structure above a height of 10 feet, payment will be made at 1.3 times the contract unit price per vertical linear foot.

Such prices and payments will be full compensation for all work covered by these special provisions, including, but not limited to: materials, labor, equipment, backfilling, compaction, testing, pumping, Portland Cement Concrete admixtures, Xypex, neoprene exterior with stainless sealing fastening bands, Nitrile Teflon O-Ring gaskets, and incidentals necessary to complete the work as required.

Payment will be made under:

Pay Items

- 16" Ductile Iron Pipe, Class 250 (Sealed)
- 18" Ductile Iron Pipe, Class 250 (Sealed)
- 24" Ductile Iron Pipe, Class 250 (Sealed)
- 30" Ductile Iron Pipe, Class 150 (Sealed)
- 36" Ductile Iron Pipe, Class 150 (Sealed)
- 42" Ductile Iron Pipe, Class 150 (Sealed)
- 48" Ductile Iron Pipe, Class 150 (Sealed)
- 54" Ductile Iron Pipe, Class 150 (Sealed)
- 54" Ductile Iron Pipe, Class 150 (Sealed, Under RR)
- 60" Ductile Iron Pipe, Class 150 (Sealed)
- Masonry Drainage Structure (Sealed)
- Masonry Drainage Structure (Sealed)
- Masonry Drainage Structure (Sealed)
- Boots for Sealed Structures

Pay Units

- Linear Foot
- Linear Foot
- Linear Foot
- Linear Foot
- Linear Foot
- Linear Foot
- Linear Foot
- Linear Foot
- Linear Foot
- Linear Foot
- Each
- Cubic Yard
- Linear Feet
- Each



DocuSigned by: *Vance William Blanton*

9F92B55744EC...

8/7/2015

County : Pitt

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
ROADWAY ITEMS						
0001	0000100000-N	800	MOBILIZATION	Lump Sum	L.S.	
0002	0000400000-N	801	CONSTRUCTION SURVEYING	Lump Sum	L.S.	
0003	0000700000-N	SP	FIELD OFFICE	Lump Sum	L.S.	
0004	0000910000-N	SP	GENERIC MISCELLANEOUS ITEM EXPLORATORY EXCAVATION - STANDARD	700 HR		
0005	0000910000-N	SP	GENERIC MISCELLANEOUS ITEM EXPLORATORY EXCAVATION - VACUUM	150 HR		
0006	0015000000-N	205	SEALING ABANDONED WELLS	4 EA		
0007	0036000000-E	225	UNDERCUT EXCAVATION	5,000 CY		
0008	0050000000-E	226	SUPPLEMENTARY CLEARING & GRUB- BING	1 ACR		
0009	0063000000-N	SP	GRADING	Lump Sum	L.S.	
0010	0106000000-E	230	BORROW EXCAVATION	102,000 CY		
0011	0127000000-N	SP	EMBANKMENT SETTLEMENT GAUGES	19 EA		
0012	0192000000-N	260	PROOF ROLLING	5 HR		
0013	0195000000-E	265	SELECT GRANULAR MATERIAL	5,000 CY		
0014	0196000000-E	270	GEOTEXTILE FOR SOIL STABILIZA- TION	8,000 SY		
0015	0199000000-E	SP	TEMPORARY SHORING	5,420 SF		
0016	0234000000-E	SP	GENERIC GRADING ITEM LOADING HAZARDOUS CONTAMINATED SOIL	2,500 CY		
0017	0234000000-E	SP	GENERIC GRADING ITEM STOCKPILING NON-HAZARDOUS CONTAMINATED SOIL	5,500 CY		
0018	0318000000-E	300	FOUNDATION CONDITIONING MATE- RIAL, MINOR STRUCTURES	4,130 TON		

County : Pitt

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0019	0320000000-E	300	FOUNDATION CONDITIONING GEO-TEXTILE	8,100	SY	
0020	0331000000-E	SP	GENERIC DRAINAGE ITEM DRAINAGE ANTI-SEEP COLLAR	200	CY	
0021	0366000000-E	310	15" RC PIPE CULVERTS, CLASS III	2,204	LF	
0022	0372000000-E	310	18" RC PIPE CULVERTS, CLASS III	708	LF	
0023	0378000000-E	310	24" RC PIPE CULVERTS, CLASS III	652	LF	
0024	0384000000-E	310	30" RC PIPE CULVERTS, CLASS III	300	LF	
0025	0390000000-E	310	36" RC PIPE CULVERTS, CLASS III	376	LF	
0026	0396000000-E	310	42" RC PIPE CULVERTS, CLASS III	576	LF	
0027	0402000000-E	310	48" RC PIPE CULVERTS, CLASS III	1,540	LF	
0028	0408000000-E	310	54" RC PIPE CULVERTS, CLASS III	780	LF	
0029	0414000000-E	310	60" RC PIPE CULVERTS, CLASS III	208	LF	
0030	0426000000-E	310	72" RC PIPE CULVERTS, CLASS III	160	LF	
0031	0432000000-E	310	78" RC PIPE CULVERTS, CLASS III	412	LF	
0032	0448000000-E	310	***** RC PIPE CULVERTS, CLASS IV (48")	248	LF	
0033	0448000000-E	310	***** RC PIPE CULVERTS, CLASS IV (54")	24	LF	

County : Pitt

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0034	0448000000-E	310	***** RC PIPE CULVERTS, CLASS IV (60")	572	LF	
0035	0448000000-E	310	***** RC PIPE CULVERTS, CLASS IV (66")	256	LF	
0036	0448000000-E	310	***** RC PIPE CULVERTS, CLASS IV (72")	392	LF	
0037	0448000000-E	310	***** RC PIPE CULVERTS, CLASS IV (84")	28	LF	
0038	0448200000-E	310	15" RC PIPE CULVERTS, CLASS IV	5,880	LF	
0039	0448300000-E	310	18" RC PIPE CULVERTS, CLASS IV	1,352	LF	
0040	0448400000-E	310	24" RC PIPE CULVERTS, CLASS IV	1,256	LF	
0041	0448500000-E	310	30" RC PIPE CULVERTS, CLASS IV	1,520	LF	
0042	0448600000-E	310	36" RC PIPE CULVERTS, CLASS IV	700	LF	
0043	0448700000-E	310	42" RC PIPE CULVERTS, CLASS IV	104	LF	
0044	0986000000-E	SP	GENERIC PIPE ITEM 16" DUCTILE IRON PIPE, CLASS 250 (SEALED)	412	LF	
0045	0986000000-E	SP	GENERIC PIPE ITEM 18" DUCTILE IRON PIPE, CLASS 250 (SEALED)	88	LF	
0046	0986000000-E	SP	GENERIC PIPE ITEM 24" DUCTILE IRON PIPE, CLASS 250 (SEALED)	236	LF	
0047	0986000000-E	SP	GENERIC PIPE ITEM 30" DUCTILE IRON PIPE, CLASS 150 (SEALED)	365	LF	
0048	0986000000-E	SP	GENERIC PIPE ITEM 36" DUCTILE IRON PIPE, CLASS 150 (SEALED)	216	LF	

County : Pitt

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0049	0986000000-E	SP	GENERIC PIPE ITEM 42" DUCTILE IRON PIPE, CLASS 150 (SEALED)	152 LF		
0050	0986000000-E	SP	GENERIC PIPE ITEM 48" DUCTILE IRON PIPE, CLASS 150 (SEALED)	168 LF		
0051	0986000000-E	SP	GENERIC PIPE ITEM 54" DUCTILE IRON PIPE, CLASS 150 (SEALED)	1,452 LF		
0052	0986000000-E	SP	GENERIC PIPE ITEM 54" DUCTILE IRON PIPE, CLASS 150 (SEALED, UNDER RR)	56 LF		
0053	0986000000-E	SP	GENERIC PIPE ITEM 54" RC PIPE CULVERTS, CLASS V (JACK, UNDER RR)	108 LF		
0054	0986000000-E	SP	GENERIC PIPE ITEM 60" DUCTILE IRON PIPE, CLASS 150 (SEALED)	556 LF		
0055	0987000000-E	310	GENERIC PIPE ITEM 48" RC PIPE CULVERTS, CLASS V (UNDER RR)	52 LF		
0056	0992000000-E	SP	GENERIC PIPE ITEM ROOF DRAIN SYSTEM	3 EA		
0057	0992000000-E	SP	GENERIC PIPE ITEM BOOTS FOR SEALED STRUCTURES	51 EA		
0058	0995000000-E	340	PIPE REMOVAL	11,485 LF		
0059	1099500000-E	505	SHALLOW UNDERCUT	5,750 CY		
0060	1099700000-E	505	CLASS IV SUBGRADE STABILIZA- TION	10,000 TON		
0061	1111000000-E	SP	CLASS IV AGGREGATE STABILIZA- TION	13,000 TON		
0062	1115000000-E	SP	GEOTEXTILE FOR PAVEMENT STA- BILIZATION	6,720 SY		
0063	1220000000-E	545	INCIDENTAL STONE BASE	1,000 TON		

County : Pitt

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0064	1297000000-E	607	MILLING ASPHALT PAVEMENT, **** DEPTH (1-1/2")	10,900 SY		
0065	1308000000-E	607	MILLING ASPHALT PAVEMENT, **** TO ***** (0" TO 3")	17,300 SY		
0066	1330000000-E	607	INCIDENTAL MILLING	11,800 SY		
0067	1489000000-E	610	ASPHALT CONC BASE COURSE, TYPE B25.0B	2,390 TON		
0068	1491000000-E	610	ASPHALT CONC BASE COURSE, TYPE B25.0C	13,620 TON		
0069	1498000000-E	610	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0B	2,820 TON		
0070	1503000000-E	610	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C	20,330 TON		
0071	1519000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	2,750 TON		
0072	1523000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5C	14,470 TON		
0073	1575000000-E	620	ASPHALT BINDER FOR PLANT MIX	2,835 TON		
0074	1693000000-E	654	ASPHALT PLANT MIX, PAVEMENT REPAIR	200 TON		
0075	2022000000-E	815	SUBDRAIN EXCAVATION	575 CY		
0076	2033000000-E	815	SUBDRAIN FINE AGGREGATE	430 CY		
0077	2044000000-E	815	6" PERFORATED SUBDRAIN PIPE	2,550 LF		
0078	2070000000-N	815	SUBDRAIN PIPE OUTLET	6 EA		
0079	2077000000-E	815	6" OUTLET PIPE	36 LF		
0080	2190000000-N	828	TEMPORARY STEEL PLATE COVERS FOR MASONRY DRAINAGE STRUCTURE	7 EA		

County : Pitt

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0081	2253000000-E	840	PIPE COLLARS	1 CY		
0082	2264000000-E	840	PIPE PLUGS	1 CY		
0083	2275000000-E	SP	FLOWABLE FILL	135 CY		
0084	2286000000-N	840	MASONRY DRAINAGE STRUCTURES	260 EA		
0085	2297000000-E	840	MASONRY DRAINAGE STRUCTURES	273 CY		
0086	2308000000-E	840	MASONRY DRAINAGE STRUCTURES	176 LF		
0087	2364000000-N	840	FRAME WITH TWO GRATES, STD 840.16	39 EA		
0088	2364200000-N	840	FRAME WITH TWO GRATES, STD 840.20	2 EA		
0089	2365000000-N	840	FRAME WITH TWO GRATES, STD 840.22	1 EA		
0090	2366000000-N	840	FRAME WITH TWO GRATES, STD 840.24	17 EA		
0091	2367000000-N	840	FRAME WITH TWO GRATES, STD 840.29	5 EA		
0092	2374000000-N	840	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (E)	68 EA		
0093	2374000000-N	840	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (F)	94 EA		
0094	2374000000-N	840	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)	79 EA		
0095	2396000000-N	840	FRAME WITH COVER, STD 840.54	25 EA		
0096	2418000000-E	SP	FRAME WITH GRATES, DRIVEWAY DROP INLET	20 LF		
0097	2440000000-N	852	CONCRETE TRANSITIONAL SECTION FOR CATCH BASIN	5 EA		

County : Pitt

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0098	2451000000-N	852	CONCRETE TRANSITIONAL SECTION FOR DROP INLET	10 EA		
0099	2473000000-N	SP	GENERIC DRAINAGE ITEM CONCRETE FLUME IN 2'-0" CURB & GUTTER	1 EA		
0100	2473000000-N	SP	GENERIC DRAINAGE ITEM MASONRY DRAINAGE STRUCTURES (SEALED)	16 EA		
0101	2484000000-E	SP	GENERIC DRAINAGE ITEM MASONRY DRAINAGE STRUCTURES (SEALED)	26 LF		
0102	2495000000-E	SP	GENERIC DRAINAGE ITEM MASONRY DRAINAGE STRUCTURES (SEALED)	63 CY		
0103	2535000000-E	846	***X*** CONCRETE CURB (8" X 12")	170 LF		
0104	2538000000-E	846	***.*** CONCRETE CURB & GUTTER (2'-0")	490 LF		
0105	2542000000-E	846	1'-6" CONCRETE CURB & GUTTER	7,420 LF		
0106	2549000000-E	846	2'-6" CONCRETE CURB & GUTTER	25,715 LF		
0107	2591000000-E	848	4" CONCRETE SIDEWALK	17,550 SY		
0108	2605000000-N	848	CONCRETE CURB RAMP	140 EA		
0109	2612000000-E	848	6" CONCRETE DRIVEWAY	4,220 SY		
0110	2655000000-E	852	5" MONOLITHIC CONCRETE ISLANDS (KEYED IN)	2,410 SY		
0111	2738000000-E	SP	GENERIC PAVING ITEM BRICK PAVER CROSSWALK	460 SY		
0112	2738000000-E	SP	GENERIC PAVING ITEM BRICK PAVER SIDEWALK	330 SY		
0113	2738000000-E	SP	GENERIC PAVING ITEM SCORED CONCRETE SIDEWALK	1,280 SY		
0114	2800000000-N	858	ADJUSTMENT OF CATCH BASINS	4 EA		

County : Pitt

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0115	2815000000-N	858	ADJUSTMENT OF DROP INLETS	1 EA		
0116	2830000000-N	858	ADJUSTMENT OF MANHOLES	46 EA		
0117	2845000000-N	858	ADJUSTMENT OF METER BOXES OR VALVE BOXES	34 EA		
0118	3030000000-E	862	STEEL BM GUARDRAIL	2,650 LF		
0119	3105000000-N	862	STEEL BM GUARDRAIL TERMINAL SECTIONS	20 EA		
0120	3150000000-N	862	ADDITIONAL GUARDRAIL POSTS	15 EA		
0121	3215000000-N	862	GUARDRAIL ANCHOR UNITS, TYPE III	4 EA		
0122	3270000000-N	SP	GUARDRAIL ANCHOR UNITS, TYPE 350	4 EA		
0123	3572000000-E	867	CHAIN LINK FENCE RESET	510 LF		
0124	3575000000-E	SP	GENERIC FENCING ITEM ORNAMENTAL FENCE (ROADWAY)	2,350 LF		
0125	3656000000-E	876	GEOTEXTILE FOR DRAINAGE	1,600 SY		
0126	4025000000-E	901	CONTRACTOR FURNISHED, TYPE *** SIGN (D)	53 SF		
0127	4025000000-E	901	CONTRACTOR FURNISHED, TYPE *** SIGN (E)	1,074 SF		
0128	4025000000-E	901	CONTRACTOR FURNISHED, TYPE *** SIGN (F)	77 SF		
0129	4072000000-E	903	SUPPORTS, 3-LB STEEL U-CHANNEL	1,876 LF		
0130	4096000000-N	904	SIGN ERECTION, TYPE D	4 EA		
0131	4102000000-N	904	SIGN ERECTION, TYPE E	196 EA		
0132	4108000000-N	904	SIGN ERECTION, TYPE F	7 EA		

County : Pitt

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0133	4116100000-N	904	SIGN ERECTION, RELOCATE, TYPE **** (GROUND MOUNTED) (D)	2 EA		
0134	4116100000-N	904	SIGN ERECTION, RELOCATE, TYPE **** (GROUND MOUNTED) (E)	1 EA		
0135	4154000000-N	907	STOCKPILE SIGN SYSTEM, U-CHANNEL	10 EA		
0136	4155000000-N	907	DISPOSAL OF SIGN SYSTEM, U- CHANNEL	89 EA		
0137	4158000000-N	907	DISPOSAL OF SIGN SYSTEM, WOOD	8 EA		
0138	4192000000-N	907	DISPOSAL OF SUPPORT, U-CHANNEL	2 EA		
0139	4238000000-N	907	DISPOSAL OF SIGN, D, E OR F	2 EA		
0140	4360000000-N	SP	GENERIC SIGNING ITEM DISPOSAL OF SIGN SYSTEM ON SPAN WIRE	2 EA		
0141	4400000000-E	1110	WORK ZONE SIGNS (STATIONARY)	1,800 SF		
0142	4405000000-E	1110	WORK ZONE SIGNS (PORTABLE)	717 SF		
0143	4410000000-E	1110	WORK ZONE SIGNS (BARRICADE MOUNTED)	766 SF		
0144	4415000000-N	1115	FLASHING ARROW BOARD	4 EA		
0145	4420000000-N	1120	PORTABLE CHANGEABLE MESSAGE SIGN	4 EA		
0146	4422000000-N	1120	PORTABLE CHANGEABLE MESSAGE SIGN (SHORT TERM)	60 DAY		
0147	4430000000-N	1130	DRUMS	333 EA		
0148	4445000000-E	1145	BARRICADES (TYPE III)	868 LF		
0149	4455000000-N	1150	FLAGGER	180 DAY		
0150	4465000000-N	1160	TEMPORARY CRASH CUSHIONS	1 EA		

County : Pitt

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0151	4470000000-N	1160	RESET TEMPORARY CRASH CUSHION	2 EA		
0152	4480000000-N	1165	TMA	2 EA		
0153	4485000000-E	1170	PORTABLE CONCRETE BARRIER	780 LF		
0154	4500000000-E	1170	RESET PORTABLE CONCRETE BARRIER	340 LF		
0155	4510000000-N	SP	LAW ENFORCEMENT	180 HR		
0156	4650000000-N	1251	TEMPORARY RAISED PAVEMENT MARKERS	517 EA		
0157	4685000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)	15,635 LF		
0158	4686000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)	36,922 LF		
0159	4695000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)	1,051 LF		
0160	4697000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (8", 120 MILS)	3,199 LF		
0161	4710000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS)	1,943 LF		
0162	4721000000-E	1205	THERMOPLASTIC PAVEMENT MARKING CHARACTER (120 MILS)	37 EA		
0163	4725000000-E	1205	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)	260 EA		
0164	4770000000-E	1205	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (4") (II)	810 LF		
0165	4810000000-E	1205	PAINT PAVEMENT MARKING LINES (4")	83,561 LF		
0166	4820000000-E	1205	PAINT PAVEMENT MARKING LINES (8")	1,736 LF		
0167	4835000000-E	1205	PAINT PAVEMENT MARKING LINES (24")	9,358 LF		

County : Pitt

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0168	4845000000-N	1205	PAINT PAVEMENT MARKING SYMBOL	282	EA	
0169	4850000000-E	1205	REMOVAL OF PAVEMENT MARKING LINES (4")	24,889	LF	
0170	4860000000-E	1205	REMOVAL OF PAVEMENT MARKING LINES (8")	175	LF	
0171	4900000000-N	1251	PERMANENT RAISED PAVEMENT MARKERS	699	EA	
0172	4915000000-E	1264	7' U-CHANNEL POSTS	18	EA	
0173	5155000000-E	1409	ELECTRICAL DUCT, TYPE BD, SIZE ***** (2")	15,840	LF	
0174	5255000000-N	1413	PORTABLE LIGHTING	Lump Sum	L.S.	
0175	5325200000-E	1510	2" WATER LINE	11	LF	
0176	5325600000-E	1510	6" WATER LINE	3,480	LF	
0177	5325800000-E	1510	8" WATER LINE	6,111	LF	
0178	5326000000-E	1510	10" WATER LINE	440	LF	
0179	5326200000-E	1510	12" WATER LINE	3,282	LF	
0180	5326600000-E	1510	16" WATER LINE	145	LF	
0181	5536000000-E	1515	2" VALVE	1	EA	
0182	5540000000-E	1515	6" VALVE	23	EA	
0183	5546000000-E	1515	8" VALVE	25	EA	
0184	5552000000-E	1515	10" VALVE	6	EA	
0185	5558000000-E	1515	12" VALVE	9	EA	
0186	5571600000-E	1515	6" TAPPING VALVE	2	EA	

County : Pitt

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0187	5571800000-E	1515	8" TAPPING VALVE	1 EA		
0188	5572200000-E	1515	12" TAPPING VALVE	2 EA		
0189	5572600000-E	1515	16" TAPPING VALVE	3 EA		
0190	5643200000-E	1515	2" WATER METER	5 EA		
0191	5648000000-N	1515	RELOCATE WATER METER	41 EA		
0192	5649000000-N	1515	RECONNECT WATER METER	8 EA		
0193	5666000000-E	1515	FIRE HYDRANT	4 EA		
0194	5672000000-N	1515	RELOCATE FIRE HYDRANT	14 EA		
0195	5691200000-E	1520	6" SANITARY GRAVITY SEWER	20 LF		
0196	5691300000-E	1520	8" SANITARY GRAVITY SEWER	795 LF		
0197	5691400000-E	1520	10" SANITARY GRAVITY SEWER	283 LF		
0198	5768000000-N	1520	SANITARY SEWER CLEAN-OUT	47 EA		
0199	5775000000-E	1525	4' DIA UTILITY MANHOLE	9 EA		
0200	5781000000-E	1525	UTILITY MANHOLE WALL, 4' DIA	16 LF		
0201	5800000000-E	1530	ABANDON 6" UTILITY PIPE	2,435 LF		
0202	5801000000-E	1530	ABANDON 8" UTILITY PIPE	5,847 LF		
0203	5802000000-E	1530	ABANDON 10" UTILITY PIPE	270 LF		
0204	5804000000-E	1530	ABANDON 12" UTILITY PIPE	2,730 LF		
0205	5815000000-N	1530	REMOVE WATER METER	1 EA		
0206	5828000000-N	1530	REMOVE UTILITY MANHOLE	6 EA		
0207	5835000000-E	1540	*** ENCASEMENT PIPE (8")	10 LF		

County : Pitt

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0208	5835600000-E	1540	12" ENCASEMENT PIPE	10 LF		
0209	5835700000-E	1540	16" ENCASEMENT PIPE	322 LF		
0210	5835800000-E	1540	18" ENCASEMENT PIPE	15 LF		
0211	5836000000-E	1540	24" ENCASEMENT PIPE	200 LF		
0212	5879000000-E	SP	*** GAS LINE (3/4")	115 LF		
0213	5879000000-E	SP	*** GAS LINE (5/8")	5 LF		
0214	5879200000-E	SP	2" GAS LINE	5,062 LF		
0215	5879400000-E	SP	4" GAS LINE	1,158 LF		
0216	5879800000-E	SP	8" GAS LINE	1,016 LF		
0217	5880000000-E	SP	*** GAS VALVE (3/4")	8 EA		
0218	5880000000-E	SP	*** GAS VALVE (5/8")	1 EA		
0219	5880200000-E	SP	2" GAS VALVE	10 EA		
0220	5880400000-E	SP	4" GAS VALVE	2 EA		
0221	5882000000-N	SP	GENERIC UTILITY ITEM 10" VITON GASKET	2 EA		
0222	5882000000-N	SP	GENERIC UTILITY ITEM 12" VITON GASKET	78 EA		
0223	5882000000-N	SP	GENERIC UTILITY ITEM 6" VITON GASKET	95 EA		
0224	5882000000-N	SP	GENERIC UTILITY ITEM 8" VITON GASKET	43 EA		
0225	6000000000-E	1605	TEMPORARY SILT FENCE	41,500 LF		

County : Pitt

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0226	6006000000-E	1610	STONE FOR EROSION CONTROL, CLASS A	500 TON		
0227	6009000000-E	1610	STONE FOR EROSION CONTROL, CLASS B	1,100 TON		
0228	6012000000-E	1610	SEDIMENT CONTROL STONE	4,000 TON		
0229	6015000000-E	1615	TEMPORARY MULCHING	26.5 ACR		
0230	6018000000-E	1620	SEED FOR TEMPORARY SEEDING	1,300 LB		
0231	6021000000-E	1620	FERTILIZER FOR TEMPORARY SEED- ING	6.5 TON		
0232	6024000000-E	1622	TEMPORARY SLOPE DRAINS	1,200 LF		
0233	6029000000-E	SP	SAFETY FENCE	100 LF		
0234	6030000000-E	1630	SILT EXCAVATION	900 CY		
0235	6036000000-E	1631	MATTING FOR EROSION CONTROL	5,000 SY		
0236	6042000000-E	1632	1/4" HARDWARE CLOTH	17,500 LF		
0237	6071010000-E	SP	WATTLE	600 LF		
0238	6071030000-E	1640	COIR FIBER BAFFLE	680 LF		
0239	6084000000-E	1660	SEEDING & MULCHING	24 ACR		
0240	6087000000-E	1660	MOWING	21 ACR		
0241	6090000000-E	1661	SEED FOR REPAIR SEEDING	300 LB		
0242	6093000000-E	1661	FERTILIZER FOR REPAIR SEEDING	1 TON		
0243	6096000000-E	1662	SEED FOR SUPPLEMENTAL SEEDING	550 LB		
0244	6108000000-E	1665	FERTILIZER TOPDRESSING	16.5 TON		
0245	6114500000-N	1667	SPECIALIZED HAND MOWING	50 MHR		

County : Pitt

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0246	6117000000-N	SP	RESPONSE FOR EROSION CONTROL	100 EA		
0247	6132000000-N	SP	GENERIC EROSION CONTROL ITEM CONCRETE WASHOUT STRUCTURE	15 EA		
0248	6138000000-E	SP	GENERIC EROSION CONTROL ITEM LANDSCAPE TOP SOIL	12,500 CY		
0249	6144000000-E	SP	GENERIC EROSION CONTROL ITEM TIF BLAIR CENTIPEDE GRASS SEED	130 LB		
0250	6147000000-E	SP	GENERIC EROSION CONTROL ITEM BULLNOSE BRICK BORDER EDGE	240 LF		
0251	6147000000-E	SP	GENERIC EROSION CONTROL ITEM LANDSCAPE WALL WITH BRICK VENEER	165 LF		
0252	6640000000-N	1670	GENERIC PLANTING ITEM ACER BUERGERIANUM, TRIDENT MAPLE (B&B 2" CAL. 14')	9 EA		
0253	6640000000-N	1670	GENERIC PLANTING ITEM ACER BUERGERIANUM, TRIDENT MAPLE (B&B 3 1/2" CAL. 16')	2 EA		
0254	6640000000-N	1670	GENERIC PLANTING ITEM ACER PALMATUM, BLOODGOOD JAPANESE MAPLE (B&B 2" CAL. 10')	9 EA		
0255	6640000000-N	1670	GENERIC PLANTING ITEM ASTER OBLONGIFOLIUS, OCTOBER SKIES AROMATIC ASTER (CONT. 12")	754 EA		
0256	6640000000-N	1670	GENERIC PLANTING ITEM AZALEA ENCORE, AUTUMN ANGEL (CONT. 24")	44 EA		
0257	6640000000-N	1670	GENERIC PLANTING ITEM BUDDLEIA DAVIDII PETITE INDIGO BUTTERFLY BUSH (CONT. 24" W)	127 EA		
0258	6640000000-N	1670	GENERIC PLANTING ITEM CEPHALOTAXUS HARRINGTONIA, DUKE'S GARDEN PLUM YEW (CONT. 24" W)	87 EA		

County : Pitt

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0259	6640000000-N	1670	GENERIC PLANTING ITEM CHASMANTHIUM LATIFOLIUM, RIVER MIST VARIEGATED NORTHERN SEA OATS (CONT 24")	147	EA	
0260	6640000000-N	1670	GENERIC PLANTING ITEM CLETHRA ALNIFOLIA, SIXTEEN CANDLES SUMMERSWEET (CONT. 24")	227	EA	
0261	6640000000-N	1670	GENERIC PLANTING ITEM FORSYTHIA X INTERMEDIA, MINDOR SHOW OFF (CONT. 30")	54	EA	
0262	6640000000-N	1670	GENERIC PLANTING ITEM GAURA LINDHEIMERI, WHIRLING BUTTERFLIES (CONT. 18")	29	EA	
0263	6640000000-N	1670	GENERIC PLANTING ITEM HEMEROCALLIS, STELLA DE ORO DAYLILLY (CONT. 18")	925	EA	
0264	6640000000-N	1670	GENERIC PLANTING ITEM ILEX CRENATA, STEEDS JAPANESE HOLLY (CONT. 36")	30	EA	
0265	6640000000-N	1670	GENERIC PLANTING ITEM ILEX GLABRA, CHAMZIN NORDIC HOLLY (CONT. 24")	167	EA	
0266	6640000000-N	1670	GENERIC PLANTING ITEM ILEX OPACA, GREENLEAF HOLLY (B&B 8')	3	EA	
0267	6640000000-N	1670	GENERIC PLANTING ITEM ILEX VERTICILLATA, SOUTHERN GENTLEMAN WINTERBERRY HOLLY (CONT. 36")	5	EA	
0268	6640000000-N	1670	GENERIC PLANTING ITEM ILEX VERTICILLATA, WINTER RED HOLLY (CONT. 36")	31	EA	
0269	6640000000-N	1670	GENERIC PLANTING ITEM ILEX VOMITORIA, NANA DWARF YAUPON HOLLY (CONT. 18")	698	EA	
0270	6640000000-N	1670	GENERIC PLANTING ITEM ILEX X ATTENUATA, FOSTER NO 2 HOLLY (B&B 8')	11	EA	

County : Pitt

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0271	6640000000-N	1670	GENERIC PLANTING ITEM ITEA VIRGINICA, VIRGINIA WILLOW (CONT. 24")	18	EA	
0272	6640000000-N	1670	GENERIC PLANTING ITEM LAGERSTROEMIA, CRAPE MYRTLE MIAMI CRAPE MYRTLE (B&B 10')	75	EA	
0273	6640000000-N	1670	GENERIC PLANTING ITEM LAGERSTROEMIA, INDICA, DWARF VICTOR CRAPE MYRTLE (B&B 36" MIN.)	14	EA	
0274	6640000000-N	1670	GENERIC PLANTING ITEM LAGERSTROEMIA, MUSKOGEE CRAPE MYRTLE (B&B 10')	84	EA	
0275	6640000000-N	1670	GENERIC PLANTING ITEM LAGERSTROEMIA, NATCHEZ CRAPE MYRTLE (B&B 10')	127	EA	
0276	6640000000-N	1670	GENERIC PLANTING ITEM LIRIOPE MUSCARI, BIG BLUE LILYTURF (1 GAL 12")	571	EA	
0277	6640000000-N	1670	GENERIC PLANTING ITEM PANICUM VIRGATUM, DALLAS BLUES SWITCH GRASS (CONT. 24")	48	EA	
0278	6640000000-N	1670	GENERIC PLANTING ITEM PENNISETUM ALOPECUROIDES, HAMELN DWARF FOUNTAIN GRASS (CONT. 12")	39	EA	
0279	6640000000-N	1670	GENERIC PLANTING ITEM QUERCUS NUTTALLII, NUTTALL OAK (B&B 2" CAL. 14')	22	EA	
0280	6640000000-N	1670	GENERIC PLANTING ITEM QUERCUS PHELLOS, HIGHTOWER WILLOW OAK (B&B 2" CAL. 14')	15	EA	
0281	6640000000-N	1670	GENERIC PLANTING ITEM RHAPHIOLEPIS INDICA, CONOR (CONT. 24")	421	EA	
0282	6640000000-N	1670	GENERIC PLANTING ITEM ROSA, X RADSUNNY SUNNY KNOCKOUT ROSE (CONT. 12"-15")	91	EA	

County : Pitt

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0283	6640000000-N	1670	GENERIC PLANTING ITEM ROSMARINUS OFFICIANALIS, ARP ROSEMARY (CONT. 18")	36 EA		
0284	6640000000-N	1670	GENERIC PLANTING ITEM TAXODIUM DISTICHUM, AUTUMN GOLD BLAD CYPRESS (B&B 2" CAL. 14')	16 EA		
0285	6640000000-N	1670	GENERIC PLANTING ITEM ULMUS PARVIFOLIA, ATHENA ELM (B&B 2" CAL. 14')	40 EA		
0286	6645000000-N	SP	GENERIC PLANTING ITEM PRECAST COLUMN	9 EA		
0287	6645000000-N	SP	GENERIC PLANTING ITEM PRECAST COLUMN SIGN	9 EA		
0288	6645000000-N	SP	GENERIC PLANTING ITEM REMOVE & RESET COLUMN	4 EA		
0289	6650000000-E	1670	MULCH FOR PLANTING	700 CY		
0290	6675000000-E	SP	GENERIC PLANTING ITEM TIF BLAIR CENTIPEDE GRASS SOD	13,852 SY		
0291	7048500000-E	1705	PEDESTRIAN SIGNAL HEAD (16", 1 SECTION W/COUNTDOWN)	38 EA		
0292	7060000000-E	1705	SIGNAL CABLE	31,380 LF		
0293	7120000000-E	1705	VEHICLE SIGNAL HEAD (12", 3 SECTION)	101 EA		
0294	7132000000-E	1705	VEHICLE SIGNAL HEAD (12", 4 SECTION)	14 EA		
0295	7144000000-E	1705	VEHICLE SIGNAL HEAD (12", 5 SECTION)	9 EA		
0296	7216000000-N	1705	MODIFY EXISTING VEHICLE SIGNAL HEAD	2 EA		
0297	7264000000-E	1710	MESSENGER CABLE (3/8")	3,565 LF		
0298	7276000000-E	1715	BORE & JACK (***** (1, 5")	65 LF		

County : Pitt

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0299	7279000000-E	1715	TRACER WIRE	940	LF	
0300	7300000000-E	1715	UNPAVED TRENCHING (*****) (1, 2")	4,005	LF	
0301	7300100000-E	1715	UNPAVED TRENCHING FOR TEMP- ORARY LEAD-IN	1,265	LF	
0302	7301000000-E	1715	DIRECTIONAL DRILL (*****) (2, 2")	1,470	LF	
0303	7324000000-N	1716	JUNCTION BOX (STANDARD SIZE)	90	EA	
0304	7348000000-N	1716	JUNCTION BOX (OVER-SIZED, HEA- VY DUTY)	6	EA	
0305	7360000000-N	1720	WOOD POLE	11	EA	
0306	7372000000-N	1721	GUY ASSEMBLY	32	EA	
0307	7408000000-E	1722	1" RISER WITH WEATHERHEAD	3	EA	
0308	7420000000-E	1722	2" RISER WITH WEATHERHEAD	6	EA	
0309	7430000000-N	1722	HEAT SHRINK TUBING RETROFIT KIT	1	EA	
0310	7432000000-E	1722	2" RISER WITH HEAT SHRINK TUBING	4	EA	
0311	7444000000-E	1725	INDUCTIVE LOOP SAWCUT	17,462	LF	
0312	7456000000-E	1726	LEAD-IN CABLE (*****) (14-2)	36,195	LF	
0313	7516000000-E	1730	COMMUNICATIONS CABLE (**FIBER) (12)	1,820	LF	
0314	7541000000-N	1731	MODIFY SPLICE ENCLOSURE	2	EA	
0315	7552000000-N	1731	INTERCONNECT CENTER	4	EA	
0316	7564100000-N	1732	FIBER-OPTIC TRANSCEIVER, SELF- HEALING RING	4	EA	

County : Pitt

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0317	7575160000-E	1734	REMOVE EXISTING COMMUNICATIONS CABLE	1,500	LF	
0318	7576000000-N	SP	METAL STRAIN SIGNAL POLE	2	EA	
0319	7588000000-N	SP	METAL POLE WITH SINGLE MAST ARM	3	EA	
0320	7613000000-N	SP	SOIL TEST	16	EA	
0321	7614100000-E	SP	DRILLED PIER FOUNDATION	128	CY	
0322	7630000000-N	SP	METAL STRAIN POLE DESIGN	6	EA	
0323	7631000000-N	SP	MAST ARM WITH METAL POLE DESIGN	8	EA	
0324	7636000000-N	1745	SIGN FOR SIGNALS	24	EA	
0325	7642100000-N	1743	TYPE I POST WITH FOUNDATION	3	EA	
0326	7642200000-N	1743	TYPE II PEDESTAL WITH FOUNDATION	30	EA	
0327	7684000000-N	1750	SIGNAL CABINET FOUNDATION	4	EA	
0328	7828000000-N	1751	CONTROLLER WITH CABINET (NEMA TS-2, TYPE 2 CONTROLLER, TYPE 1 CABINET, BASE MOUNTED)	4	EA	
0329	7852000000-N	1751	DETECTOR CARD (NEMA TS-2)	42	EA	
0330	7960000000-N	SP	METAL POLE FOUNDATION REMOVAL	9	EA	
0331	7972000000-N	SP	METAL POLE REMOVAL	9	EA	
0332	7980000000-N	SP	GENERIC SIGNAL ITEM CCTV WOOD POLE	2	EA	
0333	7980000000-N	SP	GENERIC SIGNAL ITEM DIGITAL CCTV CAMERA ASSEMBLY	2	EA	
0334	7980000000-N	SP	GENERIC SIGNAL ITEM FIELD ETHERNET SWITCH	2	EA	

County : Pitt

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0335	7980000000-N	SP	GENERIC SIGNAL ITEM METAL POLE WITH SINGLE MAST ARM AND LUMINAIRE ARM	5 EA		
0336	7980000000-N	SP	GENERIC SIGNAL ITEM METAL STRAIN SIGNAL POLE WITH LUMINAIRE ARM	6 EA		
0337	7980000000-N	SP	GENERIC SIGNAL ITEM POWDER COAT FOR PUSH BUTTON POST (BLACK)	3 EA		
0338	7980000000-N	SP	GENERIC SIGNAL ITEM POWDER COAT FOR SIGNAL PEDESTAL (BLACK)	30 EA		
0339	7980000000-N	SP	GENERIC SIGNAL ITEM POWDER COAT FOR SINGLE MAST ARM POLE (BLACK)	8 EA		
0340	7980000000-N	SP	GENERIC SIGNAL ITEM POWDER COAT FOR STRAIN POLE (BLACK)	8 EA		
0341	7990000000-E	SP	GENERIC SIGNAL ITEM BACK PULL FIBER OPTIC CABLE	600 LF		
0342	7990000000-E	SP	GENERIC SIGNAL ITEM CCTV UNIFIED CABLE	200 LF		
0366	0986000000-E	SP	GENERIC PIPE ITEM 64" DUCTILE IRON PIPE, CLASS 150 (SEALED)	321 LF		
WALL ITEMS						
0343	8801000000-E	SP	MSE RETAINING WALL NO **** (1)	21,430 SF		
0344	8801000000-E	SP	MSE RETAINING WALL NO **** (2)	27,710 SF		
0345	8832000000-N	SP	GENERIC RETAINING WALL ITEM BRICK FACADE @ MSE WALL NO 1	Lump Sum	L.S.	
0346	8832000000-N	SP	GENERIC RETAINING WALL ITEM BRICK FACADE @ MSE WALL NO 2	Lump Sum	L.S.	

County : Pitt

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0347	8839000000-E	SP	GENERIC RETAINING WALL ITEM ORNAMENTAL FENCE FOR RETAINING WALL	261 LF		
0348	8847000000-E	SP	GENERIC RETAINING WALL ITEM CIP CANTILEVER RET WALL NO 3	565 SF		
0349	8847000000-E	SP	GENERIC RETAINING WALL ITEM CIP CANTILEVER RET WALL NO 4	1,005 SF		

STRUCTURE ITEMS

0350	8112730000-N	450	PDA TESTING	2 EA		
0351	8147000000-E	420	REINFORCED CONCRETE DECK SLAB	13,932 SF		
0352	8161000000-E	420	GROOVING BRIDGE FLOORS	12,330 SF		
0353	8182000000-E	420	CLASS A CONCRETE (BRIDGE)	72.4 CY		
0354	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (65+56.61 -L-)	Lump Sum	L.S.	
0355	8217000000-E	425	REINFORCING STEEL (BRIDGE)	11,778 LB		
0356	8280000000-E	440	APPROX LBS STRUCTURAL STEEL	646,000 LS		
0357	8387000000-E	450	PP 18 X 0.50 GALVANIZED STEEL PILES	2,800 LF		
0358	8392000000-N	450	PIPE PILE PLATES	28 EA		
0359	8393000000-N	450	PILE REDRIVES	28 EA		
0360	8505000000-E	460	VERTICAL CONCRETE BARRIER RAIL	356.7 LF		
0361	8531000000-E	462	4" SLOPE PROTECTION	54 SY		
0362	8657000000-N	430	ELASTOMERIC BEARINGS	Lump Sum	L.S.	

County : Pitt

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0363	8727000000-N	SP	ELECTRICAL CONDUIT SYSTEM FOR SIGNALS AT STA***** (65+56.61 -L-)	Lump Sum	L.S.	
0364	8860000000-N	SP	GENERIC STRUCTURE ITEM APPLICATION OF BRIDGE COATING	Lump Sum	L.S.	
0365	8867000000-E	SP	GENERIC STRUCTURE ITEM ORNAMENTAL FENCE	356.7 LF		
0922/Aug11/Q1579466.3/D1699979650000/E366			Total Amount Of Bid For Entire Project :			

03/20/15

COMPUTED BY: DLS DATE: 5/10/15
CHECKED BY: EK DATE: 5/10/15

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO. U-3315 SHEET NO. 3D-2

Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout. See "Standard Specifications For Roads and Structures, Section 300-5".

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER)

Table with columns for Line & Station, Offset, Structure Number, Invert Elevation, Pipe Class (III, IV, V), Quantities for sealed drainage structures, Frame, Grates, and Hoop, and Remarks. Includes a SHEET TOTALS row at the bottom.

COMPUTED BY: DLS DATE: 5/10/15
CHECKED BY: EK DATE: 5/10/15

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO. U-3315 SHEET NO. 3D-3

Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout. See "Standard Specifications For Roads and Structures, Section 300-5".

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER)

Table with columns for LINE & STATION, OFFSET, STRUCTURE NUMBER, DIP PIPE SEEALED PIPE SYSTEM, R. C. PIPE CLASS III, IV, V, QUANTITIES FOR SEALED DRAINAGE STRUCTURES, QUANTITIES FOR DRAINAGE STRUCTURES, FRAME, GRATES, AND HOOD, CONCRETE TRANSITIONAL SECTION, and REMARKS. Includes sub-columns for pipe sizes (16-48 inches) and grate types (E, F, G).

SHEET TOTALS

538

DB6626

COMPUTED BY: DLS DATE: 5/10/15
CHECKED BY: EK DATE: 5/10/15

PROJECT NO. U-3315 SHEET NO. 3D-4

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout. See "Standard Specifications For Roads and Structures, Section 300-5".

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER)

Table with columns for LINE & STATION, OFFSET, STRUCTURE NUMBER, TOP ELEVATION, INVERT ELEVATION, MINIMUM REQUIRED SLOPE, DIP PIPE SEALED PIPE SYSTEM, R. C. PIPE CLASS III, IV, V, QUANTITIES FOR SEALED DRAINAGE STRUCTURES, QUANTITIES FOR DRAINAGE STRUCTURES, FRAME, GRATES, AND HOOD, CONCRETE TRANSITIONAL SECTION, and REMARKS. Includes a SHEET TOTALS row at the bottom.

DD4628

COMPUTED BY: DLS DATE: 5/10/15
CHECKED BY: EK DATE: 5/10/15

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO. U-3315 SHEET NO. 3D-6

Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout. See "Standard Specifications For Roads and Structures, Section 300-5".

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER)

Table with columns for LINE & STATION, OFFSET, STRUCTURE NUMBER, INVERT ELEVATION, DIP PIPE SEALED PIPE SYSTEM, R. C. PIPE CLASS III, IV, V, QUANTITIES FOR SEALED DRAINAGE STRUCTURES, QUANTITIES FOR DRAINAGE STRUCTURES, FRAME, GRATES, AND HOOD, CONCRETE TRANSITIONAL SECTION, and REMARKS. Includes a SHEET TOTALS row at the bottom.

03/06/2015

COMPUTED BY: DLS DATE: 5/10/15
CHECKED BY: EK DATE: 5/10/15

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO. U-3315 SHEET NO. 3D-7

Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout. See "Standard Specifications For Roads and Structures, Section 300-5".

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER)

Table with columns for Line & Station, Structure Number, Invert Elevation, Pipe Class (III, IV, V), Quantities for Sealed Drainage Structures, Frame, Grates, and Hood, and Remarks. Includes a summary row at the bottom labeled 'SHEET TOTALS'.

DOB2025

COMPUTED BY: DLS DATE: 5/10/15
CHECKED BY: EK DATE: 5/10/15

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO. U-3315 SHEET NO. 3D-8

Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout. See "Standard Specifications For Roads and Structures, Section 300-5".

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER)

Table with columns for Line & Station, Offset, Structure Number, Top Elevation, Invert Elevation, Minimum Required Slope, Dip Pipe Sealed Pipe System, R.C. Pipe Class III, IV, V, Drainage Structure, Frame, Grates, and Hood, and Abbreviations. Includes a SHEET TOTALS row at the bottom.

DS-6428

COMPUTED BY: DLS DATE: 5/10/15
CHECKED BY: EK DATE: 5/10/15

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO. U-3315 SHEET NO. 3D-9

Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout. See "Standard Specifications For Roads and Structures, Section 300-5".

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER)

Table with columns for LINE & STATION, STRUCTURE NUMBER, SIZE, THICKNESS OR GAUGE, INVERT ELEVATION, MINIMUM REQUIRED SLOPE, DIP PIPE SEALED PIPE SYSTEM, QUANTITIES FOR SEALED DRAINAGE STRUCTURES, R. C. PIPE CLASS III, IV, V, QUANTITIES FOR DRAINAGE STRUCTURES, FRAME, GRATES, AND HOOD, CONCRETE TRANSITIONAL SECTION, and REMARKS. Includes a SHEET TOTALS row at the bottom.

DOBAG20

COMPUTED BY: DLS DATE: 5/10/15
CHECKED BY: EK DATE: 5/10/15

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO. U-3315 SHEET NO. 3D-10

Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout. See "Standard Specifications For Roads and Structures, Section 300-5".

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER)

Main data table with columns for Line & Station, Structure Number, Invert Elevation, Pipe Class (III, IV, V), Quantities for Sealed Drainage Structures, Frame/Grate types, and Remarks. Includes a 'SHEET TOTALS' row at the bottom.

ABBREVIATIONS table listing symbols for materials like C.A.A. (Corrugated Aluminum Alloy), C.B. (Catch Basin), C.S. (Corrugated Steel), etc.

REMARKS

082499

COMPUTED BY: DLS DATE: 5/10/15
CHECKED BY: EK DATE: 5/10/15

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO. U-3315 SHEET NO. 3D-11

Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout. See "Standard Specifications For Roads and Structures, Section 300-5".

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER)

Table with columns for Line & Station, Structure Number, Invert Elevation, Pipe Class (III, IV, V), Quantities for Sealed Drainage Structures, Drainage Structures, Frame, Grates, and Hood, and Remarks. Includes a summary row at the bottom labeled 'SHEET TOTALS'.

DD84829

COMPUTED BY: DLS DATE: 5/10/15
CHECKED BY: EK DATE: 5/10/15

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO. U-3315 SHEET NO. 3D-12

Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout. See "Standard Specifications For Roads and Structures, Section 300-5".

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER)

Main data table with columns for Line & Station, Structure Number, Invert Elevation, Pipe Class (III, IV, V), Quantities for Sealed Drainage Structures, R.C. Pipe Class III/IV/V, Drainage Structure, Frame, Grates, and Hood, and Remarks. Includes sub-totals for Sheet and Project/Say Totals.

08/20/09

COMPUTED BY: DLS DATE: 5/10/15
CHECKED BY: EK DATE: 5/10/15

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO. U-3315 SHEET NO. 3D-13

Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout. See "Standard Specifications For Roads and Structures, Section 300-5".

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 54 INCHES & OVER)

Table with columns for LINE & STATION, OFFSET, STRUCTURE NUMBER, ELEVATIONS, PIPE CLASS (54, 60, 64, 66, 72, 78, 84), QUANTITIES FOR SEALED DRAINAGE STRUCTURES, R.C. PIPE CLASS III/IV, QUANTITIES FOR DRAINAGE STRUCTURES, FRAME, GRATES, AND HOOD, GRADE TYPE, and REMARKS. Includes a SHEET TOTALS row at the bottom.

ABBREVIATIONS table listing terms like C.A.A., C.B., C.S., D.I., G.D.I., H.D.P.E., J.B., M.H., N.S., P.V.C., R.C., T.B.D.I., T.B.J.B., W.S. and their corresponding material descriptions.

DB6262

COMPUTED BY: DLS DATE: 5/10/15
CHECKED BY: EK DATE: 5/10/15

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO. U-3315 SHEET NO. 3D-14

Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout. See "Standard Specifications For Roads and Structures, Section 300-5".

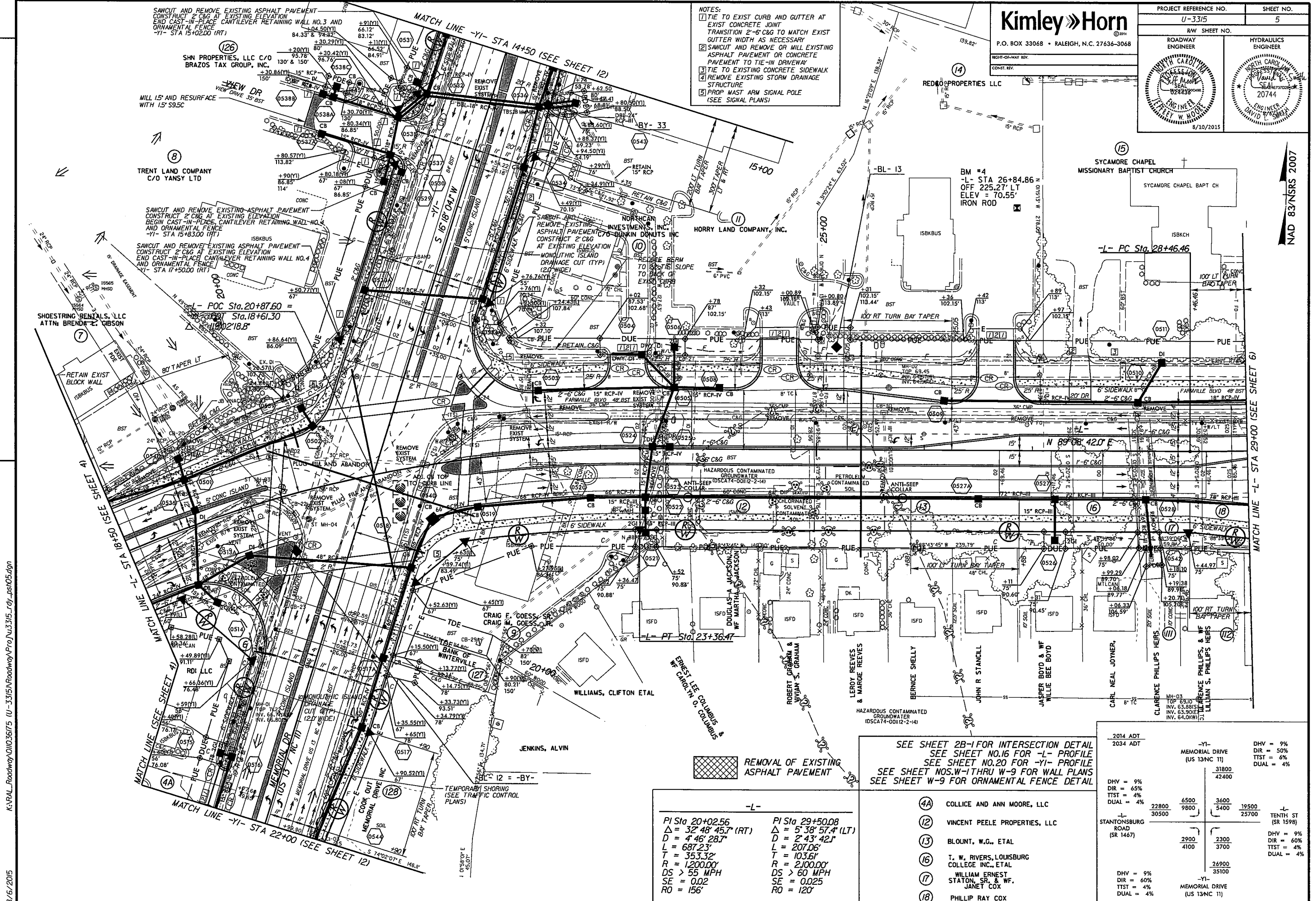
LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 54 INCHES & OVER)

Table with columns for LINE & STATION, OFFSET, STRUCTURE NUMBER, TOP ELEVATION, INVERT ELEVATION, MINIMUM REQUIRED SLOPE, DIP PIPE SEALED PIPE SYSTEM, QUANTITIES FOR SEALED DRAINAGE STRUCTURES, R.C. PIPE CLASS V, III, IV, DRAINAGE STRUCTURE, QUANTITIES FOR DRAINAGE STRUCTURES, FRAME, GRATES, AND HOOD, CONCRETE TRANSITIONAL SECTION, and REMARKS. Includes summary rows for SHEET TOTALS and PROJECT/SAY TOTALS.

Kimley Horn
 P.O. BOX 33068 • RALEIGH, N.C. 27636-3068

PROJECT REFERENCE NO. U-3315	SHEET NO. 5
ROADWAY ENGINEER	HYDRAULICS ENGINEER
8/10/2015	

NOTES:
 1) TIE TO EXIST CURB AND GUTTER AT EXIST CONCRETE JOINT
 TRANSITION 2'-6" C&G TO MATCH EXIST GUTTER WIDTH AS NECESSARY
 2) SAWCUT AND REMOVE OR MILL EXISTING ASPHALT PAVEMENT OR CONCRETE PAVEMENT TO TIE-IN DRIVEWAY
 3) TIE TO EXISTING CONCRETE SIDEWALK
 4) REMOVE EXISTING STORM DRAINAGE STRUCTURE
 5) PROP MAST ARM SIGNAL POLE (SEE SIGNAL PLANS)



REVISIONS

NAD 83 NSRS 2007

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8/6/2015

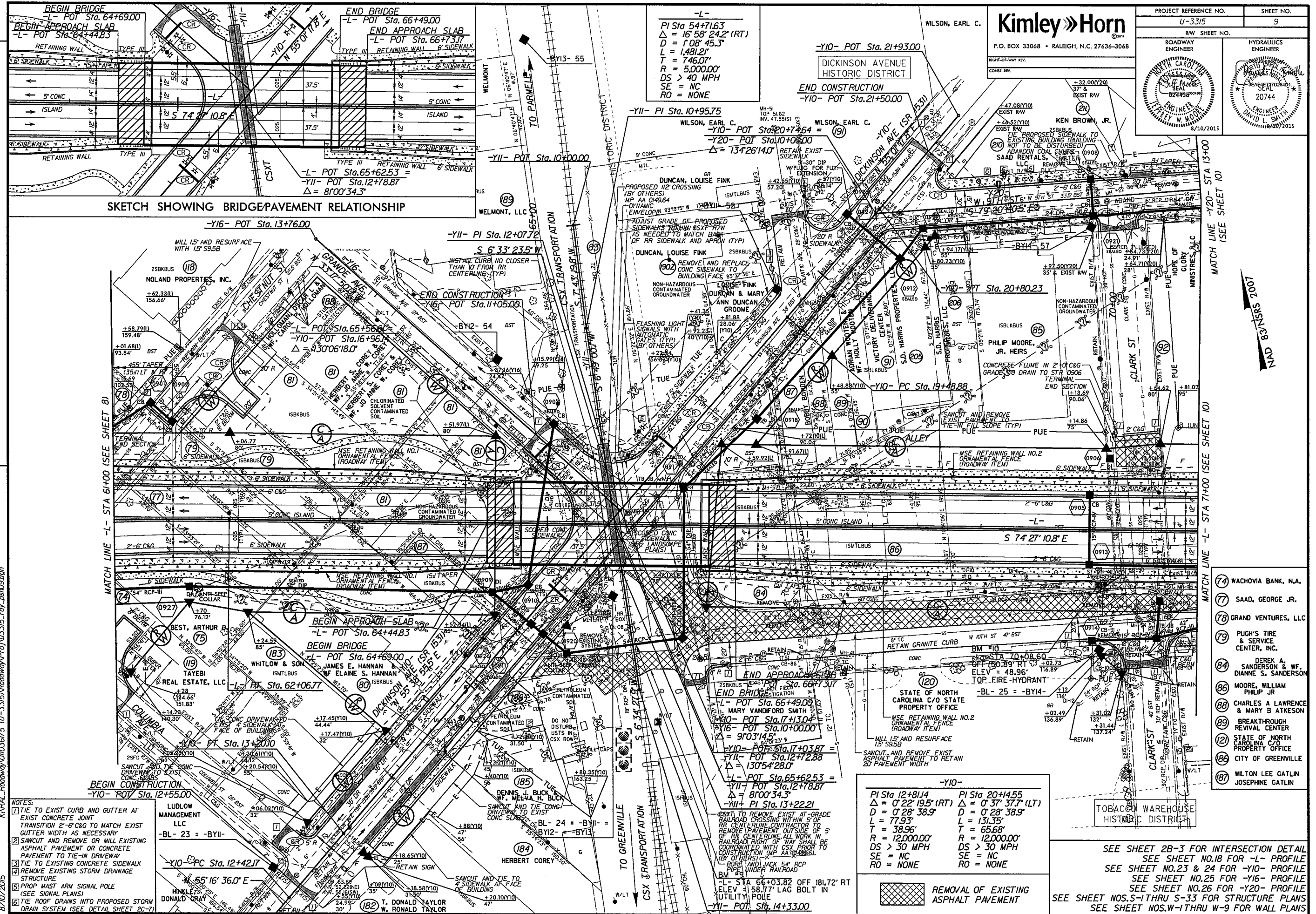
REMOVAL OF EXISTING ASPHALT PAVEMENT

SEE SHEET 2B-1 FOR INTERSECTION DETAIL
 SEE SHEET NO.16 FOR -L- PROFILE
 SEE SHEET NO.20 FOR -YI- PROFILE
 SEE SHEET NOS.W-1 THRU W-9 FOR WALL PLANS
 SEE SHEET W-9 FOR ORNAMENTAL FENCE DETAIL

-L- PI Sta 20+02.56 Δ = 32° 48' 45.7" (RT) D = 4' 46" 28.7" L = 687.23' T = 353.32' R = 1,200.00' DS > 55 MPH SE = 0.02 RO = 156'	-L- PI Sta 29+50.08 Δ = 5° 38' 57.4" (LT) D = 2' 43' 42.7" L = 207.06' T = 103.61' R = 2,100.00' DS > 60 MPH SE = 0.025 RO = 120'
--	--

- ④A COLLICE AND ANN MOORE, LLC
- ⑫ VINCENT PEELE PROPERTIES, LLC
- ⑬ BLOUNT, W.G., ETAL
- ⑭ T. W. RIVERS, LOUISBURG COLLEGE INC., ETAL
- ⑰ WILLIAM ERNEST STATION, SR. & WF. JANET COX
- ⑱ PHILLIP RAY COX

2014 ADT 2034 ADT	-YI- MEMORIAL DRIVE (US 13NC 11)	DHV = 9% DIR = 50% TTST = 6% DUAL = 4%
	31800 42400	
DHV = 9% DIR = 65% TTST = 4% DUAL = 4%	22800 30500	6500 9800
	STANTONSURB ROAD (SR 1467)	3600 5400
	2900 4100	2300 3700
		26900 35100
DHV = 9% DIR = 60% TTST = 4% DUAL = 4%	-YI- MEMORIAL DRIVE (US 13NC 11)	TENTH ST (SR 1598)
		DHV = 9% DIR = 60% TTST = 4% DUAL = 4%



NOTES:

- TIE TO EXIST CURB AND GUTTER AT EXIST CONCRETE JOINT
- GUTTER WIDTH AS NECESSARY
- REMOVE EXISTING ASPHALT PAVEMENT OR CONCRETE PAVEMENT TO TIE-IN DRIVEWAY
- TIE TO EXISTING CONCRETE SIDEWALK
- REMOVE EXISTING STORM DRAINAGE STRUCTURE
- PROP MAST ARM SIGNAL POLE (SEE SIGNAL PLANS)
- TIE ROOF DRAINS INTO PROPOSED STORM DRAIN SYSTEM (SEE DETAIL SHEET 2C-7)

-L-
 PI Sta 54+71.63
 $\Delta = 16^{\circ} 58' 24.2''$ (RT)
 $D = 1^{\circ} 08' 45.3''$
 $L = 1,481.21'$
 $T = 746.07'$
 $R = 5,000.00'$
 $DS > 40$ MPH
 SE = NC
 RO = NONE

-Y10- POT Sta. 21+93.00
 DICKINSON AVENUE
 HISTORIC DISTRICT
 END CONSTRUCTION
 -Y10- POT Sta. 21+50.00

-Y10-
 PI Sta 12+81.4
 $\Delta = 0^{\circ} 22' 19.5''$ (RT)
 $D = 0^{\circ} 28' 38.9''$
 $L = 77.93'$
 $T = 38.96'$
 $R = 12,000.00'$
 $DS > 30$ MPH
 SE = NC
 RO = NONE

PI Sta 20+14.55
 $\Delta = 0^{\circ} 37' 37.7''$ (LT)
 $D = 0^{\circ} 28' 38.9''$
 $L = 131.35'$
 $T = 65.68'$
 $R = 12,000.00'$
 $DS > 30$ MPH
 SE = NC
 RO = NONE

Kimley Horn
 P.O. BOX 33068 • RALEIGH, N.C. 27636-3068
 ROADWAY ENGINEER
 HYDRAULICS ENGINEER

PROJECT REFERENCE NO. U-3315
 SHEET NO. 9
 ROADWAY ENGINEER
 HYDRAULICS ENGINEER
 NORTH CAROLINA PROFESSIONAL ENGINEER
 20744
 8/10/2015

REVISIONS

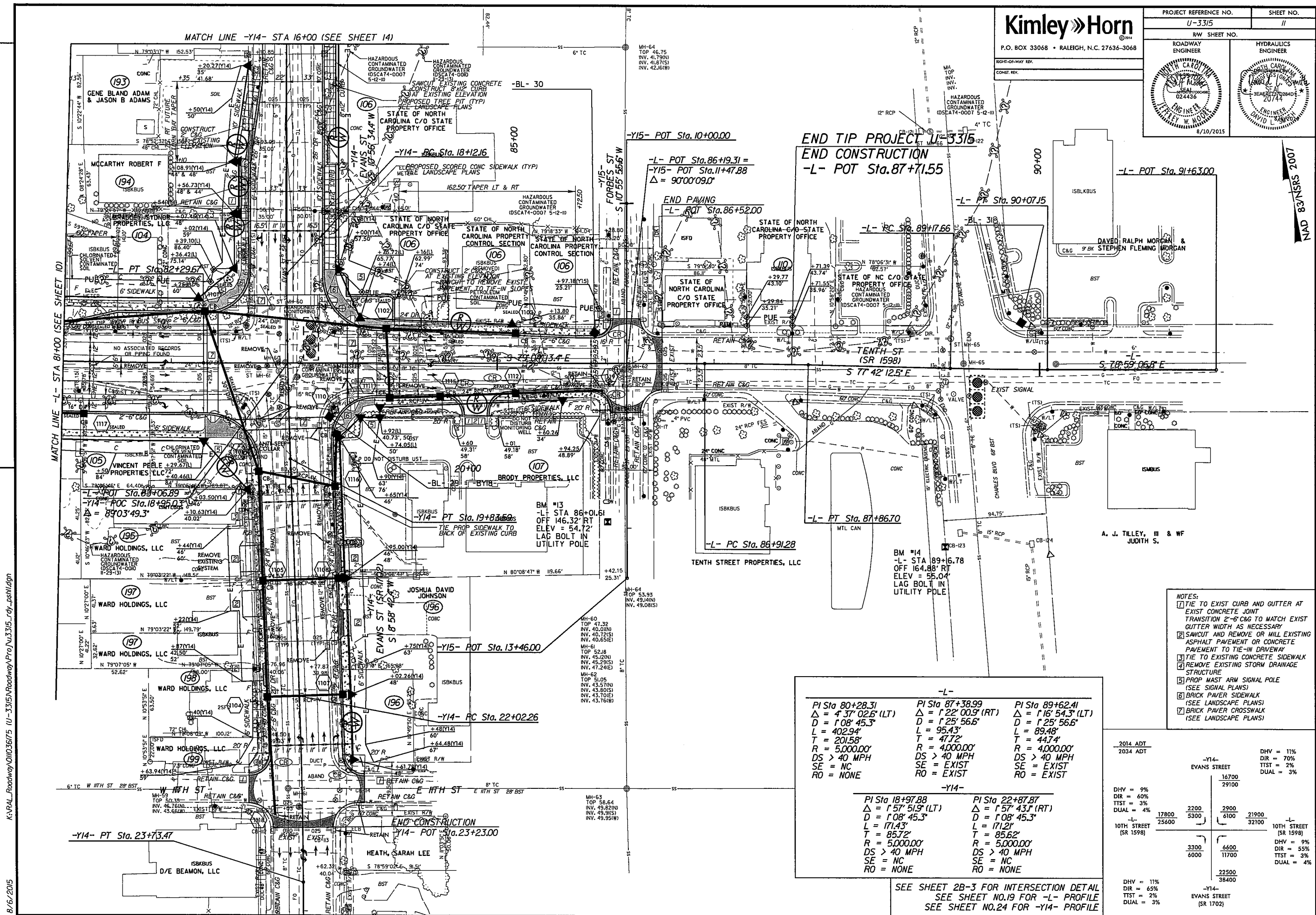
NAD 83 DATUM 2007

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8/10/2015

- (74) WACHOVIA BANK, N.A.
- (77) SAAD, GEORGE JR.
- (78) GRAND VENTURES, LLC
- (79) PUGH'S TIRE & SERVICE CENTER, INC.
- (84) DEREK A. SANDERSON & WF. DIANNE S. SANDERSON
- (86) MOORE, WILLIAM PHILIP JR
- (88) CHARLES A LAWRENCE & MARY B ATKESON
- (89) BREAKTHROUGH REVIVAL CENTER
- (121) STATE OF NORTH CAROLINA C/O PROPERTY OFFICE
- (126) CITY OF GREENVILLE
- (187) WILTON LEE GATLIN JOSEPHINE GATLIN

SEE SHEET 2B-3 FOR INTERSECTION DETAIL
 SEE SHEET NO.14 FOR -L- PROFILE
 SEE SHEET NO.23 & 24 FOR -Y10- PROFILE
 SEE SHEET NO.25 FOR -Y16- PROFILE
 SEE SHEET NO.26 FOR -Y20- PROFILE
 SEE SHEET NOS.S-1THRU S-33 FOR STRUCTURE PLANS
 SEE SHEET NOS.W-1THRU W-9 FOR WALL PLANS

PROJECT REFERENCE NO. U-3315	SHEET NO. 11
R/W SHEET NO. ROADWAY ENGINEER	HYDRAULICS ENGINEER
8/10/2015	



REVISIONS

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8/6/2015

END TIP PROJECT U-3315
END CONSTRUCTION
-L- POT Sta. 87+71.55

END PAVING
-L- POT Sta. 86+52.00

-L- POT Sta. 86+19.31 =
-Y15- POT Sta. 11+47.88
Δ = 90'00"09.0"

-L- PT Sta. 87+86.70

-L- PC Sta. 86+91.28

-L-		
PI Sta 80+28.31 Δ = 4' 37' 02.6" (LT) D = 1' 08' 45.3" L = 402.94' T = 201.58' R = 5,000.00' DS > 40 MPH SE = NC RO = NONE	PI Sta 87+38.99 Δ = 1' 22' 00.9" (RT) D = 1' 25' 56.6" L = 95.43' T = 47.72' R = 4,000.00' DS > 40 MPH SE = EXIST RO = EXIST	PI Sta 89+62.41 Δ = 1' 16' 54.3" (LT) D = 1' 25' 56.6" L = 89.48' T = 44.74' R = 4,000.00' DS > 40 MPH SE = EXIST RO = EXIST
-Y14-		
PI Sta 18+97.88 Δ = 1' 57' 51.9" (LT) D = 1' 08' 45.3" L = 171.43' T = 85.72' R = 5,000.00' DS > 40 MPH SE = NC RO = NONE	PI Sta 22+87.87 Δ = 1' 57' 43.1" (RT) D = 1' 08' 45.3" L = 171.21' T = 85.62' R = 5,000.00' DS > 40 MPH SE = NC RO = NONE	

- NOTES:
- TIE TO EXIST CURB AND GUTTER AT EXIST CONCRETE JOINT. TRANSITION 2'-6" C&G TO MATCH EXIST GUTTER WIDTH AS NECESSARY.
 - SAWCUT AND REMOVE OR MILL EXISTING ASPHALT PAVEMENT OR CONCRETE PAVEMENT TO TIE-IN DRIVEWAY.
 - TIE TO EXISTING CONCRETE SIDEWALK.
 - REMOVE EXISTING STORM DRAINAGE STRUCTURE.
 - PROP MAST ARM SIGNAL POLE (SEE SIGNAL PLANS).
 - BRICK PAVEMENT SIDEWALK (SEE LANDSCAPE PLANS).
 - BRICK PAVEMENT CROSSWALK (SEE LANDSCAPE PLANS).

2014 ADT		2034 ADT		-Y14- EVANS STREET		-L- 10TH STREET (SR 1598)	
DHV = 9%	17800	DHV = 11%	16700	DHV = 11%	16700	DHV = 9%	17800
DIR = 60%	5300	DIR = 70%	2900	DIR = 65%	2900	DIR = 55%	5300
TTST = 3%	25600	TTST = 2%	6100	TTST = 2%	6100	TTST = 3%	25600
DUAL = 4%	25600	DUAL = 3%	21900	DUAL = 4%	21900	DUAL = 4%	25600

SEE SHEET 28-3 FOR INTERSECTION DETAIL
SEE SHEET NO.19 FOR -L- PROFILE
SEE SHEET NO.24 FOR -Y14- PROFILE

CONSTRUCTION PHASING

PHASE 1

STEP 1
PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL INSTALL WORK ZONE ADVANCE WARNING SIGNS AS SHOWN ON RSD. 1101.01.

THE CLOSURE OF FIFTH STREET SHALL NOT EXCEED A PERIOD OF 30 CONSECUTIVE DAYS. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

STEP 2
INSTALL CMS AND DETOUR SIGNS AND CLOSE 5TH STREET AS SHOWN ON TMP-37. COMPLETE ROADWAY CONSTRUCTION AND INSTALL 60" RCP AS SHOWN ON THE ROADWAY PLANS. UPON COMPLETION REOPEN 5TH STREET TO TRAFFIC.

STEP 3
INSTALL DETOUR SIGNS AND CLOSE MYRTLE STREET AND PENNSYLVANIA AVENUE AS SHOWN ON TMP-32.

CLOSE SPRUCE STREET, COLUMBIA AVENUE, CLARK STREET AND CHESTNUT STREET AS SHOWN ON TMP-7 THRU TMP-9.

BEGIN WORK ON NEW LOCATION -L- TENTH STREET FROM EAST OF 14TH STREET TO WEST OF DICKINSON AVENUE AS SHOWN ON TMP-7 THRU TMP-9.

NOTE: PHASE 1, STEPS 2 THRU 4A MAY BE PERFORMED CONCURRENTLY.

STEP 4
USING RSD 1101.02 SHEETS 1, 3, AND 8 FOR TEMPORARY LANE CLOSURES, PERFORM THE FOLLOWING AS SHOWN ON TMP-4 THRU TMP-7A, TMP-12, TMP-13:

- INSTALL TRAFFIC CONTROL DEVICES AND TEMPORARY SIGNALS AT THE STANTONSBURG/MEMORIAL, FARMVILLE/BANCROFT, AND FARMVILLE/14TH STREET INTERSECTIONS. ACTIVATE THE TEMPORARY SIGNALS.
- INSTALL DETOUR SIGNS AND CLOSE PARIS AVENUE AND RALEIGH AVENUE AS SHOWN ON TMP-33 AND COMPLETE ASSOCIATED CONSTRUCTION.
- INSTALL TEMPORARY SIDEWALK ALONG 14TH STREET.

BEGIN CONSTRUCTION AS SHOWN ON TMP-4 THRU TMP-7A, TMP-12, AND TMP-13.

COMPLETE THE WORK OF STEP 4A IN 60 CONSECUTIVE CALENDER DAYS. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

STEP 4A
INSTALL PCB, CRASH CUSHION, AND TEMPORARY SHORING ALONG MEMORIAL DR. AS SHOWN ON TMP-5 AND 12.

NOTE: SEQUENCE THE INSTALLATION OF PCB AND SHORING SUCH THAT A MINIMUM OF ONE DRIVEWAY ACCESS IS MAINTAINED FOR THE HESS GAS STATION AND ONE DRIVEWAY ACCESS IS MAINTAINED FOR THE COOKOUT RESTAURANT AT ALL TIMES.

INSTALL DRAINAGE STRUCTURES AND RCP BETWEEN STR. NO. 1210 AND NO. 0517.

REMOVE TEMPORARY SHORING AND PCB.

STEP 5
UPON COMPLETION OF 5TH STREET WORK, INSTALL DETOUR SIGNS AND CLOSE TENTH STREET AS SHOWN ON TMP-30.

BEGIN WORK ON -L- TENTH STREET FROM EAST OF DICKINSON AVENUE TO WEST OF EVANS STREET AS SHOWN ON TMP-9 THRU TMP-11.

THE CLOSURE OF DICKINSON AVENUE AND GRANDE AVENUE SHALL NOT EXCEED A PERIOD OF 45 CONSECUTIVE DAYS. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

STEP 6
INSTALL DETOUR SIGNS AND CLOSE DICKINSON AVENUE/GRANDE AVENUE INTERSECTION AS SHOWN ON TMP-31.

AWAY FROM TRAFFIC AND MAINTAINING PEDESTRIANS AS SHOWN ON TMP-46, PERFORM THE FOLLOWING AS SHOWN ON TMP-9:

- COMPLETE REPLACEMENT OF DICKINSON AVENUE
- COMPLETE AT GRADE RAIL CROSSING AT INTERSECTION
- REMOVE SOUTHERN LEG OF GRANDE AVENUE
- UPON COMPLETION REOPEN DICKINSON AVENUE/GRANDE AVENUE TO TRAFFIC.

NOTE:
PHASE 1, STEPS 5 THRU 7 MAY BE PERFORMED CONCURRENTLY.
PHASE 1, STEPS 3 AND 5 MAY CONTINUE THROUGHOUT PHASE 1 AND PHASE 2.

PHASE 1 (CONT'D)

STEP 7
USING RSD 1101.02 SHEETS 1, 3, AND 8 FOR TEMPORARY LANE CLOSURES, PERFORM THE FOLLOWING AS SHOWN ON TMP-11:

- INSTALL TRAFFIC CONTROL DEVICES AND TEMPORARY SIGNAL AT TENTH ST/ EVANS ST INTERSECTION.
- PLACE TEMPORARY PAVEMENT MARKINGS (PAINT), REMOVE CONFLICTING MARKINGS, ACTIVATE SIGNALS, AND PLACE TRAFFIC ONTO NEW PATTERN.

COMPLETE CONSTRUCTION AS SHOWN ON TMP-4 THRU TMP-13.

NOTE:
IN THE EVENT THAT DRAINAGE CONSTRUCTION CANNOT BE COMPLETED WHILE MAINTAINING TRAFFIC OR WITHIN GENERAL LANE CLOSURE TIME RESTRICTIONS, TEMPORARY NIGHTTIME ROAD CLOSURES SHALL BE USED IN ACCORDANCE WITH GENERAL NOTE C. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

PHASE 2

NOTE: PHASE 1, STEPS 3 AND 4 MAY CONTINUE THROUGHOUT PHASE 2 CONSTRUCTION.

USING RSD 1101.02 SHEETS 1, 3, AND 8 FOR TEMPORARY LANE CLOSURES, PERFORM THE FOLLOWING AS SHOWN ON TMP-14 THRU TMP-23:

- STEP 1:**
- INSTALL TEMPORARY SIGNALS AND TRAFFIC CONTROL DEVICES.
 - PLACE TEMPORARY PAVEMENT MARKINGS (PAINT), REMOVE CONFLICTING MARKINGS, ACTIVATE SIGNALS, AND PLACE TRAFFIC ONTO NEW PATTERN.

STEP 2:
COMPLETE CONSTRUCTION AS SHOWN ON TMP-14 THRU TMP-23. IN THE EVENT THAT DRAINAGE CONSTRUCTION CANNOT BE COMPLETED WHILE MAINTAINING TRAFFIC OR WITHIN GENERAL LANE CLOSURE TIME RESTRICTIONS, TEMPORARY NIGHTTIME ROAD CLOSURES SHALL BE USED IN ACCORDANCE WITH GENERAL NOTE C. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

THE CLOSURE OF DICKINSON AVENUE AND GRANDE AVENUE SHALL NOT EXCEED A PERIOD OF 15 CONSECUTIVE DAYS. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

- STEP 3:**
- INSTALL DETOUR SIGNS AND CLOSE THE DICKINSON AVENUE/GRANDE AVENUE INTERSECTION
 - INSTALL GIRDERS ON THE NEW BRIDGE OVER INTERSECTION
 - UPON COMPLETION REOPEN DICKINSON AVENUE/GRANDE AVENUE TO TRAFFIC.

NOTE: PHASE 2, STEPS 2 AND 3 MAY BE PERFORMED CONCURRENTLY.

PHASE 3

USING RSD 1101.02 SHEETS 1, 3, AND 8 FOR TEMPORARY LANE CLOSURES, PERFORM THE FOLLOWING AS SHOWN ON TMP-24 THRU TMP-29:

- STEP 1:**
- INSTALL TEMPORARY SIGNALS AND TRAFFIC CONTROL DEVICES.
 - PLACE TEMPORARY PAVEMENT MARKINGS (PAINT), REMOVE CONFLICTING MARKINGS, ACTIVATE SIGNALS, AND PLACE TRAFFIC ONTO NEW PATTERN.

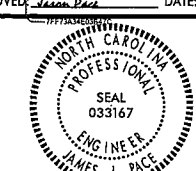
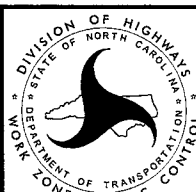
STEP 2:
COMPLETE THE MEDIAN CONSTRUCTION AS SHOWN ON THE PLANS.

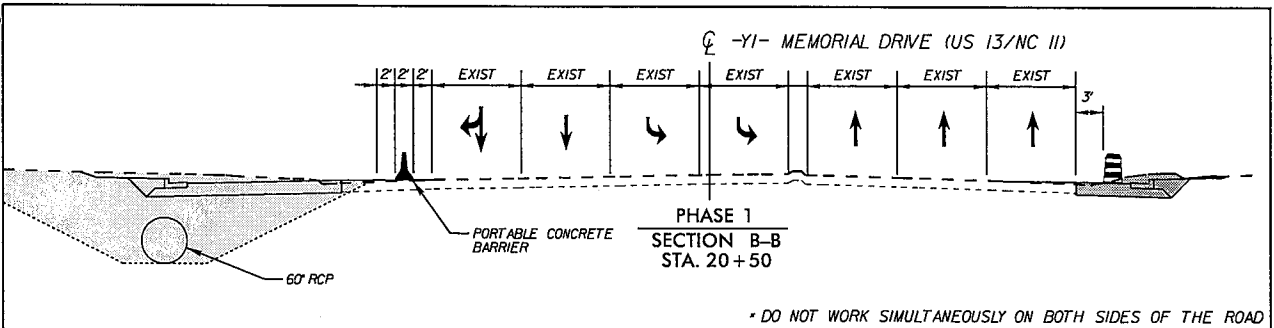
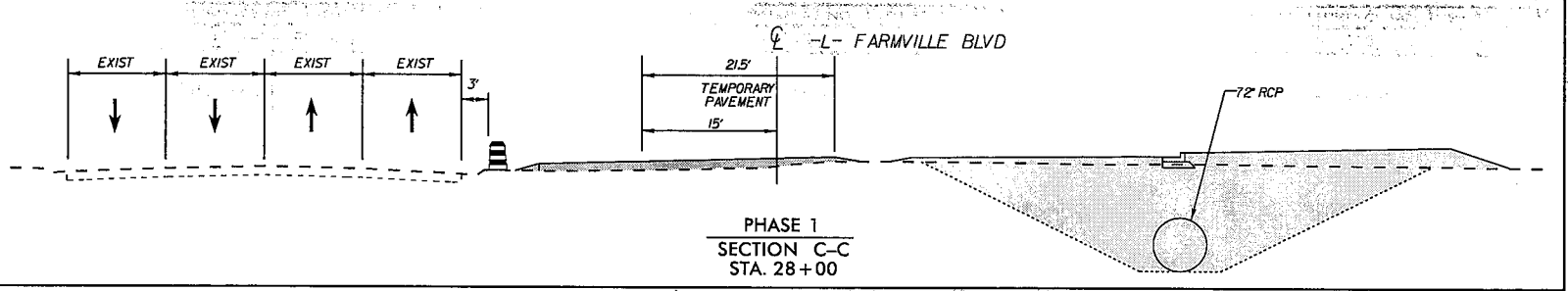
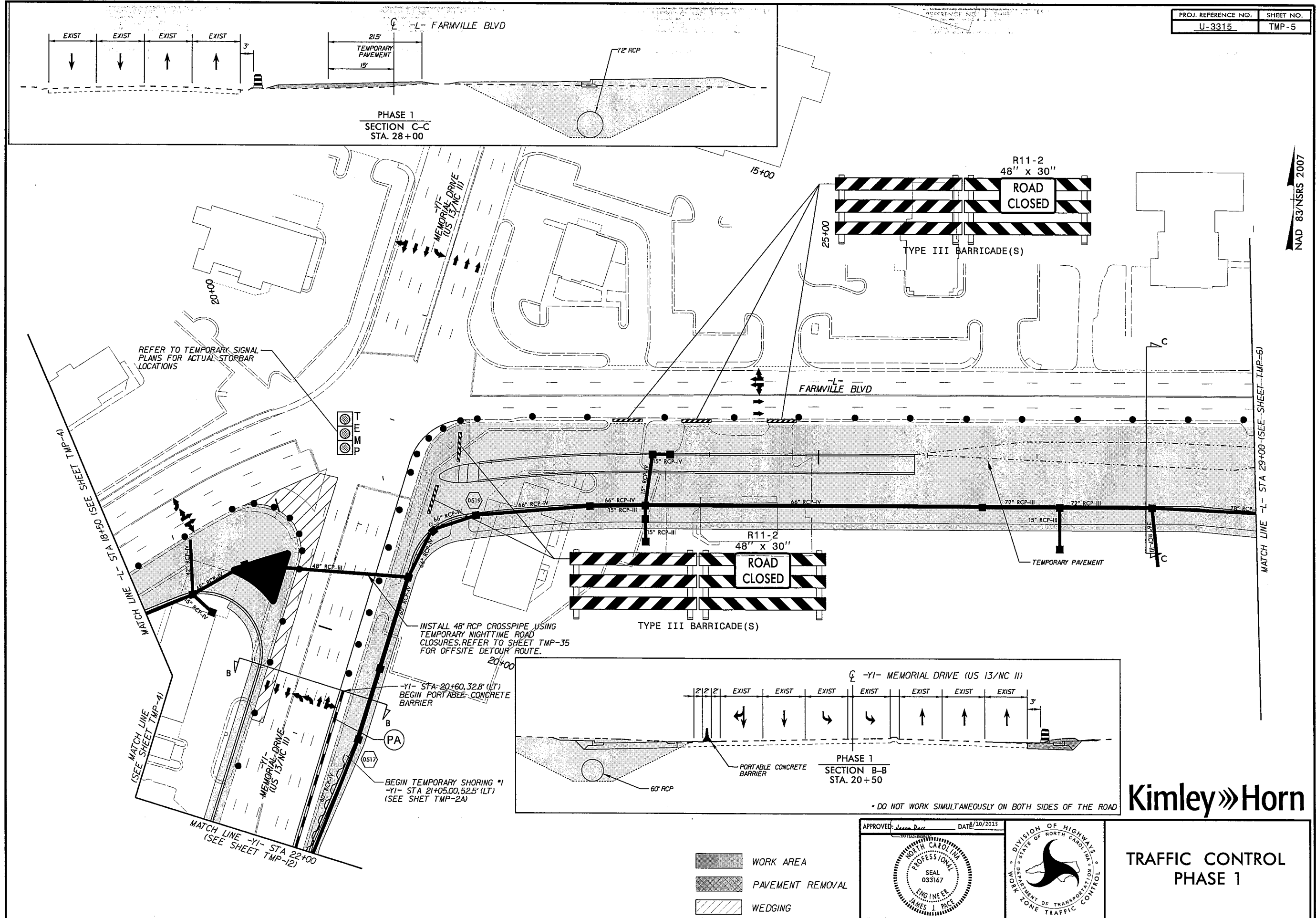
- STEP 3:**
- INSTALL FINAL SIGNALS AND MAINTAIN TEMPORARY SIGNALS.
 - PLACE FINAL LAYER OF ASPHALT, FINAL PAVEMENT MARKINGS AND SIGNS AS SHOWN ON THE PAVEMENT MARKING AND SIGNING PLANS.

- STEP 4:**
- ACTIVATE FINAL SIGNALS AND PLACE TRAFFIC ONTO FINAL PATTERN.
 - OPEN ALL LANES TO TRAFFIC AND REMOVE ALL TRAFFIC CONTROL DEVICES.

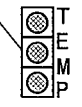
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Kimley»Horn

APPROVED: <u>Jason Doss</u> DATE: <u>8/10/2015</u> 		<h1 style="margin: 0;">PHASING</h1>
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REFER TO TEMPORARY SIGNAL PLANS FOR ACTUAL STOPBAR LOCATIONS



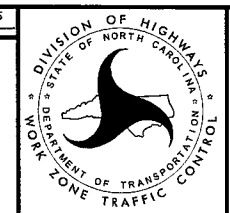
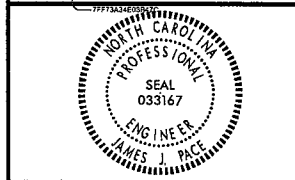
INSTALL 48" RCP CROSSPIPE USING TEMPORARY NIGHTTIME ROAD CLOSURES. REFER TO SHEET TMP-35 FOR OFFSITE DETOUR ROUTE.

-Y1- STA-20+60.328' (LT) BEGIN PORTABLE CONCRETE BARRIER

BEGIN TEMPORARY SHORING *1 -Y1- STA 21+05.00, 52.5' (LT) (SEE SHET TMP-2A)

- WORK AREA
- PAVEMENT REMOVAL
- WEDGING

APPROVED: Jason Duce DATE: 10/2015



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TRAFFIC CONTROL PHASE 1

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NAD 83/NSRS 2007