

ADDENDUM NO. 1

10th Avenue Roadway Improvements Project
The City of Tuscaloosa, Alabama
City of Tuscaloosa Project No. 2016.129.001
Neel-Schaffer Project No. NS 12329.000
Date: June 18, 2018

Please acknowledge receipt of Addendum No.1 on page 14 of the Proposal. The following shall be added to the contract documents and shall carry the same weight as though they were included in the original contract documents:

ITEM NO. 1. – Pre-Bid

- a. A mandatory pre-bid meeting was held at 2:00 p.m. on Wednesday, June 13, 2018. The agenda meeting minutes and sign in sheet are attached.

ITEM NO. 2. –Revised Bid Schedule:

- a. A revised bid schedule is attached and an electronic version will be provided to prospective bidders.

ITEM NO. 3. –Revised Page 6 of Contract Documents:

- a. Revised page has been updated to replace \$50,000 with \$10,000.

ITEM NO. 4. –Clarification Geometric Controls:

- a. Geometric Controls will be to cover any items not staked by Neel-Schaffer. Neel-Schaffer shall perform a onetime staking of items listed in the agenda attached to this addendum. Any other items the contractor requires to be staked or re-staked, due to being disturbed by construction, will be covered in this pay item. Blue topping is not covered in Neel-Schaffer's construction staking for the project.

ITEM NO. 5. – Revision Plan Sheet No. 3C

- a. Added Item No. 2723-1 Manhole Height Adjustments
 - i. Quantity 6 Each
- b. Added Item No. 15106-1 Valve Height Adjustments
 - i. Quantity 13 Each
- c. Revised Item No. 2600-4 from Class 52 to Class 50

ITEM NO. 6. – Revision to Contact Document Specifications

- a. Added Specification 02723 Manhole Height Adjustment
 - i. Attached to Addendum
- b. Added Specification 015106 Valve Height Adjustment
 - i. Attached to Addendum

- ITEM NO. 7. -Clarification and Revision Sheet 27 Gate Valves and Detail
- a. Leave Gate Valves paid for as shown on plans: One Existing 6” Gate Valve in detail 2/27 and a REQD 16x6 Tapping Sleeve and Valve in detail 3/27.
 - b. Revise sheet no. 27 detail 3/27 from “Existing 6” Water to Remain in Service” to “Existing 6” Water Abandon in Place”

ITEM NO. 8. - Clarification PVC and HDPE will not be allowed as a substitute for Ductile Iron for either water or sanitary sewer pipes.

- ITEM NO. 9. - Clarification Domestic Products
- a. Domestic products are required and addressed on page 11 of the specifications.

- ITEM NO. 10. – Revision to Specification 02600
- a. Add Section 7 to Paragraph 2.2.A:
7. Restrained joint ductile iron pipe and fitting shall be “Flex-Ring” as manufactured by American Cast Iron Pipe or “TR-Flex” as manufactured by U.S. Pipe.

- ITEM NO. 11. - Revision Plan Sheet No. 3:
- a. Revised Item No. 2203-1 from Lump Sum to Cubic Yard
 - b. Revised Item No. 2203-2 from Lump Sum to Cubic Yard
 - c. Revised Quantity for Item No. 2240-2 from 1201 to 3593.

- ITEM NO. 12. - Clarification ARTICLE VII SECTION C:
- a. As-Built drawings are waived and Neel-Schaffer will prepare “Record Drawings” for the Owner.
 - b. Per the Agenda the Contractor shall coordinate any deviation from the plans with the Owner’s Representative.

ITEM NO. 13. - Soil Boring Records are attached to this addendum.

ITEM NO. 14. - An electronic copy of the Cross Sections will be provided in DGN format.

ITEM NO. 15. - The Asphalt Index as described in ALDOT Standard Specifications for Highway Construction, 2018 Edition will apply to this project.

- ITEM NO. 16. - Clarification Road Closure
- a. The Contractor is expected to maintain at least one lane of traffic in each direction when flaggers are not present.
 - b. A sketch is provided showing a possible lane configuration for maintaining one lane in each direction for the bore pit located at approximate station 32+50.

- ITEM NO. 17. -Revision Plan Sheet No. 2B
- a. Added Note 700: Alabama Football Game Day: The Contractor shall not have a lane closure during the following period unless otherwise directed by the Owner: From 10:00 PM on Thursday through to 6:00 AM the following Monday when a University of Alabama football game is scheduled in Tuscaloosa.
- ITEM NO. 18. -The Drainage Inlet Details (Sheet 2M thru 2R) are stamped by an Alabama PE for use in construction.
- ITEM NO. 19. - Concrete Safety Barrier is paid for by Linear Feet of barrier and not each time it is moved.
- ITEM NO. 20. - Clarification Utility Service Fee
- a. Specification 3600 describe how the fee will be paid.
- ITEM NO. 21. - Clarification Under Cut
- a. An Under Cut Item is already setup for the project.
- ITEM NO. 22. - Clarification Reorganize Bid Schedule:
- a. We will not reorganize the bid schedule to group like items of work.
- ITEM NO. 23. - Water Meter Replacement – If a replacement water meter is need the city will provide the meter to the contractor at no additional charge. The contractor will contact the city to determine pick up of the meter.
- ITEM NO. 24. - Revision to Specification 02250 Section 1.4 Payment:
- a. Backfill under REQD Bituminous Asphalt shall be paid for as 2240-2
- ITEM NO. 25. – Revision to Plan Sheet No. 2F
- a. Revised Trench Detail to add dimension of width of 2' to trench on either side of drainage pipe.
- ITEM NO. 26. – Revision to Plan Sheet No. 2I
- a. Revised Trench Details from ALDOT No. 57 stone to Section 825, Type A stone.
- ITEM NO. 27. - Clarification Asphalt Patching
- a. Asphalt patching is paid for as shown on plans sheets 2F and 2I.
- ITEM NO. 28. – Clarification Borrow Excavation
- a. Borrow Excavation will be paid for as described in the plans and specifications.
- ITEM NO. 29. – Revision to Specification 02800 Section 1.04 Payment.

a. Revised Section 1.04 Payment to the following:

1.04 Measurement and Payment:

A. Measurement for Traffic Control shall be based on ALDOT Standard Specifications for Highway Construction Latest Edition, Section 740.

B. Payment for Traffic Control shall be at the contract unit price which shall be full compensation for Materials, installation, equipment, tools, labor and incidentals necessary to complete the work.

END OF ADDENDUM NO. 1



Wyman D. Turner, P.E.
No. 30102

10TH AVENUE ROADWAY IMPROVEMENTS PROJECT

CITY OF TUSCALOOSA PROJECT NO. 2016.129.001

NEEL-SCHAFFER PROJECT NO. NS.12329.000

PRE-BID AGENDA

Wednesday, June 13th, 2018, 2:00 p.m.

General:

- Welcome (Please Silence all Radios and Phones)
- Pre-Bid Conference is **MANDATORY** for all Bidders; Sign-In Sheet (Complete for Record) will be included with Addendum. Be sure to legibly write email address as all Addenda will be issued electronically via email.
- Name and Location of Project: 10th Avenue Roadway Improvements Tuscaloosa, AL - Roadway Improvements and City Walk along 10th Ave from 31 Street to Hargrove Road.
- Introduce Owner and Owner's Representatives

Project Summary:

- Base Bid includes overlaying 10th Ave from 29th Street to Hargrove Road, constructing an Asphalt multi-use path, storm sewer drainage, concrete sidewalks, concrete retaining wall, curb and gutter, utility duct bank, and street lighting. Also included is municipal utility work for required ductile iron water main and ductile iron sanitary sewer.
- Additive Alternate Bid No. 1 includes planning and overlay of 10th Avenue between 31st Street and 29th Street.

Receipt of Bids:

- Bids shall be received Wednesday, June 20th, 2018 at 2:00 p.m. at City Hall in the Council Chambers.
- Proposal Form and Unit Price Bid Schedule and acknowledge receipt of all addenda (submit one copy with bid)
- Bid Bond with power of Attorney
- Proposal Envelope must have Project Name, Owner Name, City Project Number, Contractor Name, Contractor State License Number shown on the outside envelope containing the bid

Contractual Requirements:

- City of Tuscaloosa Contract Documents.
- Davis-Bacon Wage Rates apply and begin on page 89 of the Contract Specifications. These wage rates apply to the General Contractor and all subcontractors.

- Contractors are encouraged to utilize minority subcontractors where applicable. The City of Tuscaloosa maintains a database which identifies eligible minority contractors and subcontractors. Information regarding the City MBE/DBE/WBE policy is included in the Contract documents beginning on page 93. The City goal for use of MBE/DBE/WBE entities is 10-20%. Database information can be obtained by calling Ms. Caramyl Drake at 205-248-5275. Contractors are required to submit certain forms associated with the City's program at various times throughout the project. These forms are located on pages 97 thru 109 of the Contract Documents. Forms 1 and 2 are due today.
- The Contractor shall be required to comply with the Alabama Immigration Law and by submission of a bid and acceptance of a contract certify compliance with this law.
- The Contractor shall be required to comply with the Affordable Health Care Act and by submission of a bid and acceptance of a contract certify compliance with this law.
- Payment and Performance Bonds will be required for this project.
- Insurance Requirements for this project are as specified beginning on page 39 of the City's Standard Contract Documents. The successful contractor shall be required to submit insurance certificates indicating insurance coverage meeting these requirements and the AGENT'S VERIFICATION OF CONTRACTOR INSURANCE form shown on page 64 of the Contract Documents.
- Project Staking Controls are shown on the drawings. Neel-Schaffer will be responsible for staking proposed sidewalk, curb and gutter, retaining walls, storm sewer, sanitary sewer, light poles and conduit, water lines (no irrigation) with a 48-hour notice. Any construction stake out services desired by the contractor in addition to that shown shall be the responsibility of the contractor at no additional cost to the Owner.
- Construction Observation Services will be provided by the Owner full time and performed by Neel-Schaffer, Inc.
- Time for Completion will be 360 **consecutive calendar days**.
- Liquidated Damages will be **\$1000.00 per day beyond the stated completion date**.
- Record Drawings will be prepared by the Owner's Representative. The Contractor shall coordinate any deviation from the plans with the Owner's Representative.
- Unit Price Contract – Bid Schedule can be found in the Contract Documents. As part of the addendum, an electronic copy of the bid schedule will be provided.
- Bidders should include Sales and Use Taxes in their unit prices. Materials for this project are not exempt.

Project Coordination:

- Public – Pedestrian and Residence Access: Contractor must maintain access to residences at all times. This work is being performed on public streets. Any street closures required must be coordinated with Tuscaloosa Police and Fire departments.
- Public Notifications and Traffic Control (Advertisements, Door Hangers, Letters of Notification to Owners, etc.). It is important to talk with the property Owners to notify them of approximate schedule for when you will be working in their area. Notification at the beginning of work will not suffice for work performed months later. 7-days notice is recommended and should be done in writing to each home owner as noted above. A copy of the notification shall also be provided to the Owner's Representative. Traffic Control Work Zones and Details are provided in the plans but a detailed traffic control plan must be submitted by the contractor and approved by the City of Tuscaloosa prior to any work starting. This is further detailed in the traffic control notes in the plans. The traffic control plan must take into account school buses must traverse the work area during week days.

Project Conditions:

- A project sign will be required. The sign shall be paid for under the constructions sign pay item.
- Erosion Control and Clean up (During and Post Construction). Much of this work is located on City right-of—way, but in front of residences. Keep the job site clean of debris, with no open ditches left over night, unless they are properly marked and barricaded.

Miscellaneous:

- Contractor will be allowed to bid an alternative design in lieu of the cast-in-place retaining wall. The unit price shall be based on the cost per square foot of exposed face.
 - The Contractor shall be responsible for the alternative design. Drawings must be prepared under the direction of the licensed professional engineer.
 - Alternative wall designs must be constructed within the previously acquired right of way easement.
 - Retaining wall design and product sample shall be submitted to the Engineer for approval.
- Neel-Schaffer has prepared the CBMPP and the storm water permit application for the City.
- Clarification Requests **WILL NOT** be accepted after Monday, June 18, 2018 at 2:00 p.m. to allow time for addendum preparation, if required. All questions and clarification request shall be submitted in writing or by email to the Project Engineer on or before this date and time.
- Pay Applications (Review and Submittal): Upon submittal of pay request, the Owner's Representative has 10 days to review pay application. Preferred method of pay application submittal process would be to meet on a predetermined quantity cut-off date to review and agree upon the quantities for that month's pay application. The Contractor will then prepare the pay application and all required supporting documentation (certified payroll, stored materials, etc.) and submit to the Owner's Representative. If all required items are not submitted, then the pay application will be returned for corrections. Upon receipt of a completed, approved pay application, it will then be forwarded to the City for final approval and payment.
- Material Submittals: All submittals shall be reviewed by the contractor prior to submission and this review shall be noted on each submittal. Electronic Copies of submittals will be acceptable as long as a transmittal summarizing the submittal is included.
- Lead Time on Material Items. Coordinate with all subs regarding material lead time. Material delays will not be a valid excuse for project delays and failure to complete on time.
- Due to the residential nature of the work area, no work after 6:00 p.m. or before 7:00 a.m. will be permitted except for emergency repairs.

Proposed Addenda:

- Addendum No. 1: Pre-Bid Meeting Minutes and Sign-In Sheet
Electronic copy of the Bid Schedule

Questions/Comments:

- Owner
- Bidders



City of Tuscaloosa
 10th Avenue City Walk and Roadway Improvements
 Project No. 2016.129.001



BASE BID
 Contract Schedule

The following represents the bidder's schedule of contract unit prices for this proposal (bidder to complete below):

City of
TUSCALOOSA

Item No.	Quantity	Unit	Description	Unit Cost	Amount Bid
1026-1	1	LUMP SUM	MOBILIZATION		
1060-1	250	LINEAR FOOT	CONSTRUCTION SAFETY FENCE		
15105-1	2	EACH	8" GATE VALVE AND BOX		
15106-1	13	EACH	VALVE HEIGHT ADJUSTMENT		
15300-1	1	EACH	FIRE HYDRANT ASSEMBLY		
2104-1	1,076	SQUARE YARD	REMOVING CONCRETE SIDEWALK		
2104-2	916	SQUARE YARD	REMOVING CONCRETE DRIVEWAY		
2104-3	2,223	LINEAR FOOT	REMOVING PIPE		
2104-4	3,062	LINEAR FOOT	REMOVING CURB AND GUTTER		
2104-5	1,821	LINEAR FOOT	REMOVING FENCE		
2104-6	2	EACH	REMOVING HEADWALLS		
2104-7	20	EACH	REMOVING INLETS		
2104-8	1	EACH	REMOVING JUNCTION BOXES		
2104-9	2	EACH	REMOVING MANHOLES		
2104-10	4	EACH	REMOVING MAILBOXES (INCLUDING RESET WITH A NEW TIMBER POST)		
2104-11	1	EACH	REMOVING METAL POLE WITH LIGHT AND BASE (PEDESTRIAN CAUTION LIGHT)		
2110-1	1	LUMP SUM	CLEARING AND GRUBBING (MAXIMUM ALLOWABLE BID \$ 4000 PER ACRE)(APPROX 2 ACRES)		
2203-1	1,924	CUBIC YARD	UNCLASSIFIED EXCAVATION		
2203-2	82	CUBIC YARD	BORROW EXCAVATION (A-4(0) OR BETTER)		
2203-3	1,450	CUBIC YARD	UNCLASSIFIED EXCAVATION (UNDERCUT MATERIAL)		
2203-4	1,450	CUBIC YARD	BORROW EXCAVATION (UNDERCUT)		
2233-1	3,266	SQUARE YARD	ROADBED PROCESSING		
2240-1	6,715	SQUARE YARD	CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 5" COMPACTED THICKNESS		
2240-2	3,593	TON	CRUSHED AGGREGATE, SECTION 825, TYPE A, FOR MISCELLANEOUS USE (AS DIRECTED BY THE ENGINEER)		
2260-1	320	LINEAR FOOT	8" SCH 40 PVC CONDUIT		
2290-1	80	EACH	SAND BAGS		
2290-2	2,690	LINEAR FOOT	SILT FENCE		
2290-3	2,690	LINEAR FOOT	SILT FENCE REMOVAL		
2290-4	37	EACH	INLET PROTECTION, STAGE 3 OR 4		
2290-5	200	LINEAR FOOT	WATTLE		
2350-1	9,100	SQUARE YARD	SOLID SODDING		
2350-2	4	ACRE	TEMPORARY SEEDING		
2350-3	4	ACRE	TEMPORARY MULCHING		
2400-1	1,872	SQUARE YARD	PLANING EXISTING PAVEMENT (APPROXIMATELY 0.00" THRU 1.0" THICK)		
2433-1	672	LINEAR FOOT	18" ROADWAY PIPE (CLASS 3 R.C.)		
2433-2	403	LINEAR FOOT	24" ROADWAY PIPE (CLASS 3 R.C.)		
2433-3	136	LINEAR FOOT	30" ROADWAY PIPE (CLASS 3 R.C.)		
2433-4	1,022	LINEAR FOOT	36" ROADWAY PIPE (CLASS 3 R.C.)		
2433-5	99	LINEAR FOOT	42" ROADWAY PIPE (CLASS 3 R.C.)		
2433-6	150	LINEAR FOOT	48" ROADWAY PIPE (CLASS 3 R.C.)		
2433-7	124	LINEAR FOOT	88" SPAN, 54" RISE ROADWAY PIPE (CLASS 3 R.C.)		
2500-1	3,646	SQUARE YARD	BITUMINOUS TREATMENT A		
2500-2	2,212	GALLON	TACK COAT		
2500-3	396	TON	SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 3/8" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE A/B (220 LB/SY)		
2500-4	1,421	TON	SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (135 LB/SY)		
2500-5	674	TON	SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER, 3/4" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (225 LB/SY)		
2500-6	1,218	TON	SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER, PATCHING, 3/4" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (550 LB/SY)		
2500-7	1,349	TON	SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER, LEVELING, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (135-1190 LB/SY)		
2528-1	634	LINEAR FOOT	CONCRETE GUTTER (VALLEY) (INCLUDES 22 LF OF 3' MODIFIED VALLEY GUTTER)		
2528-2	3,180	LINEAR FOOT	COMBINATION CURB & GUTTER, TYPE C (MODIFIED)		
2529-1	355	SQUARE FOOT	RETAINING WALL (CAST IN PLACE)		
2540-1	22	CUBIC YARD	SLOPE PAVING		
2550-1	1,506	SQUARE YARD	CONCRETE SIDEWALK, 4" THICK		
2550-2	215	SQUARE YARD	CONCRETE DRIVEWAY, 6" THICK (INCLUDES WIRE MESH)		
2560-1	1	CUBIC YARD	MINOR STRUCTURE CONCRETE		
2560-2	2	EACH	BUS SHELTER FOUNDATION		
2575-1	1	LUMP SUM	GEOMETRIC CONTROLS		
2580-1	1	LUMP SUM	CONSTRUCTION FUEL (MAXIMUM BID LIMITED TO \$ 162237)		
2585-1	1	MILE	BROKEN YELLOW, CLASS 2T, TYPE A TRAFFIC STRIPE (5" WIDE)		
2585-2	1	MILE	SOLID WHITE, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)		
2585-3	2	MILE	SOLID YELLOW, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)		
2585-4	2	MILE	BROKEN WHITE, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)		
2585-5	187	LINEAR FOOT	DOTTED, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)		
2585-6	4	MILE	SOLID TEMPORARY TRAFFIC STRIPE		
2585-7	1,486	SQUARE FOOT	TRAFFIC CONTROL MARKINGS, CLASS 2, TYPE A		
2585-8	113	SQUARE FOOT	TRAFFIC CONTROL LEGENDS, CLASS 2, TYPE A		
2585-9	79	EACH	PAVEMENT MARKERS, CLASS A-H, TYPE 1-B		
2585-10	94	EACH	PAVEMENT MARKERS, CLASS A-H, TYPE 2-D		



City of Tuscaloosa
 10th Avenue City Walk and Roadway Improvements
 Project No. 2016.129.001



BASE BID
 Contract Schedule

The following represents the bidder's schedule of contract unit prices for this proposal (bidder to complete below):

City of
TUSCALOOSA

Item No.	Quantity	Unit	Description	Unit Cost	Amount Bid
2585-11	27	EACH	PAVEMENT MARKERS, CLASS A-H, TYPE 2-E		
2590-1	23	SQUARE FOOT	CLASS 4, ALUMINUM FLAT SIGN PANELS 0.08" THICK OR STEEL FLAT SIGN PANELS 14 GAUGE (TYPE III OR TYPE IV BACKGROUND)		
2590-2	75	SQUARE FOOT	CLASS 8, ALUMINUM FLAT SIGN PANELS 0.08" THICK OR STEEL FLAT SIGN PANELS 14 GAUGE (TYPE IX BACKGROUND)		
2590-3	182	LINEAR FOOT	ROADWAY SIGN POST (#3 U CHANNEL, GALVANIZED STEEL OR 2", 14 GA SQUARE TUBULAR STEEL)		
2600-1	130	LINEAR FOOT	6" DI, CLASS 52 WATER MAIN		
2600-2	30	LINEAR FOOT	8" DI, CLASS 52 WATER MAIN		
2600-3	60	LINEAR FOOT	12" DI, CLASS 52 WATER MAIN		
2600-4	310	LINEAR FOOT	16" DI, CLASS 50 WATER MAIN		
2600-5	325	LINEAR FOOT	16" DI, CLASS 50 RESTRAINED JOINT WATER MAIN		
2602-1	2	EACH	JUNCTION BOXES, TYPE 1 OR 1P		
2602-2	1	EACH	JUNCTION BOXES, TYPE SPECIAL STRUCTURE NO. 88		
2602-3	1	EACH	JUNCTION BOXES, TYPE SPECIAL STRUCTURE NO. 105		
2602-4	1	EACH	JUNCTION BOXES, TYPE SPECIAL STRUCTURE NO. 140		
2602-5	1	EACH	JUNCTION BOXES, TYPE SPECIAL STRUCTURE NO. 122		
2602-6	1	EACH	JUNCTION BOXES, TYPE SPECIAL STRUCTURE NO. 123		
2602-7	11	EACH	INLETS, TYPE S1 OR S3 (1 WING)		
2602-8	10	EACH	INLETS, TYPE S2 OR S4 (1 WING)		
2602-9	2	EACH	INLETS, TYPE S1 OR S3 (2 WING)		
2602-10	3	EACH	INLETS, TYPE S2 OR S4 (2 WING)		
2602-11	8	EACH	INLETS, TYPE "SPECIAL" (YARD INLET)		
2660-1	5	EACH	CUT AND CAP 6" WATER MAIN		
2660-3	2	EACH	16" X 16" TAPPING VALVE AND SLEEVE		
2660-4	112	LINEAR FOOT	16" DI CLASS 52 RESTRAINED JOINT WATER MAIN W/ 36" STEEL CASING		
2660-5	12,100	POUND	DI FITTINGS		
2660-6	53	LINEAR FOOT	2"PVC, CLASS 200 WATER MAIN		
2660-7	4	EACH	TIE TO EXISTING WATER MAIN		
2660-8	1	EACH	2" SERVICE TAP		
2660-9	2	EACH	RELOCATE WATER METER WITH NEW METER BOX		
2660-10	1	EACH	16" X 6" TAPPING VALVE AND SLEEVE		
2700-1	200	LINEAR FOOT	CONCRETE MEDIAN OR SAFETY BARRIER, TYPE 6		
2705-1	3,912	LINEAR FOOT	DUCT BANK		
2706-1	5	EACH	48"x72"x48" VAULT		
2706-2	10	EACH	36"x48"x36" VAULT		
2722-1	2	EACH	4' DIAMETER PRE-CAST MH DOG HOUSE (12'-14' CUT) (EPOXY LINED)		
2722-2	4	EACH	4' DIAMETER PRE-CAST MH DOG HOUSE (10'-12' CUT) (EPOXY LINED)		
2722-3	4	EACH	4' DIAMETER PRE-CAST MH (12'-14' CUT) (EPOXY LINED)		
2722-4	181	LINEAR FOOT	18" DIAMETER DI, CL.52 EPOXY LINED SANITARY SEWER (12' - 14' CUT)		
2722-5	243	LINEAR FOOT	12" DIAMETER DI, CL.52 EPOXY LINED SANITARY SEWER (12' - 14' CUT)		
2722-6	30	LINEAR FOOT	12" DIAMETER DI, CL.52 EPOXY LINED SANITARY SEWER (10' - 12' CUT)		
2722-7	134	LINEAR FOOT	8" DIAMETER DI, CL.52 EPOXY LINED SANITARY SEWER (10' - 12' CUT)		
2722-8	4	VERTICAL FOOT	8" DIA. MEMPHIS TEE CONNECTION RISER, DI, EPOXY LINED		
2722-9	1	LUMP SUM	BYPASS PUMPING		
2722-10	588	LINEAR FOOT	POST CONSTRUCTION CAMERA INSPECTION		
2723-1	6	EACH	MANHOLE HEIGHT ADJUSTMENT		
2744-1	372	LINEAR FOOT	INDUSTRIAL FENCE, 4 FEET HIGH		
2744-2	510	LINEAR FOOT	INDUSTRIAL FENCE, 6 FEET HIGH (P.V.C. COATED)		
2744-3	1	EACH	GATE, 14 FEET WIDE, COMPLETE WITH FITTINGS (WITHOUT BARBED WIRE)		
2744-4	1	EACH	GATE, 20 FEET WIDE, COMPLETE WITH FITTINGS (WITHOUT BARBED WIRE)		
2744-5	1	EACH	GATE, 4 FEET WIDE, COMPLETE WITH FITTINGS (WITHOUT BARBED WIRE)		
2744-6	120	LINEAR FOOT	FENCE SET 4' ALUMINUM ORNAMENTAL		
2744-7	714	LINEAR FOOT	PRIVACY FENCE		
2800-1	660	SQUARE FOOT	CONSTRUCTION SIGNS		
2800-2	250	EACH	CHANNELIZING DRUMS		
2800-3	50	EACH	CONES (36 INCHES HIGH)		
2800-4	10	EACH	BARRICADES, TYPE III		
2800-5	6	EACH	WARNING LIGHTS, TYPE B		
2800-6	50	EACH	BALLAST FOR CONE		
2800-7	1	EACH	PILOT CAR		
2800-8	2	EACH	PORTABLE SEQUENTIAL ARROW AND CHEVRON SIGN UNIT		
2800-9	2	EACH	PORTABLE CHANGEABLE MESSAGE SIGN, TYPE 2		
2940-1	1,050	CUBIC YARD	TOPSOIL		
2940-3	9	EACH	TREE PLANTING, CHINESE PISTACHE (30 G)		
2940-4	50	EACH	TREE PLANTING, CRAPE MYRTLE 'TUSCARORA' (30 G)		
2940-5	19	EACH	TREE PLANTING, ELM 'PRINCETON' (30 G)		
2940-6	12	EACH	TREE PLANTING, RED MAPLE 'OCTOBER GLORY' (30 G)		
2940-7	62	EACH	TREE PLANTING, CRAPE MYRTLE 'SARAH'S FAVORITE' (30 G)		
2940-8	20	EACH	SHRUB PLANTING, LOROPETALUM (3 G)		
2940-9	104	EACH	SHRUB PLANTING, DRIFT ROSE 'CORAL' (3 G)		
2940-10	190	EACH	SHRUB PLANTING, ABELIA 'KALEIDOSCOPE' (3 G)		
2940-11	4,210	SQUARE FOOT	BED PREPARATION		
2940-12	982	EACH	FERTILIZER FOR WOODY PLANT MATERIAL, TABLET, 21 GRAM		
2940-13	476	EACH	FERTILIZER FOR WOODY PLANT MATERIAL, TABLET, 10 GRAM		



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 10th Avenue City Walk and Roadway Improvements
 Project No. 2016.129.001



BASE BID
 Contract Schedule

The following represents the bidder's schedule of contract unit prices for this proposal (bidder to complete below):

City of
TUSCALOOSA

Item No.	Quantity	Unit	Description	Unit Cost	Amount Bid
2960-1	100	EACH	SPRINKLER HEAD, 1812-PRS-8		
2960-2	150	EACH	SPRINKLER HEAD, 1812-PRS-5		
2960-3	1,500	LINEAR FOOT	PIPING, 1.5" DIAMETER		
2960-4	9,450	LINEAR FOOT	PIPING, 1" DIAMETER		
2960-5	8,100	LINEAR FOOT	VALVE CONTROL WIRE		
2960-7	5	EACH	ELECTRIC CONTROL VALVE, 1"		
2960-8	3	EACH	ELECTRIC CONTROL VALVE, 1.5"		
2960-10	650	LINEAR FOOT	SLEEVES, 4" PVC		
2960-11	2	EACH	ELECTRIC CONTROLLER, 8 STATION		
2960-12	2	EACH	WEATHER SENSOR		
2960-13	2	EACH	1.5" MASTER VALVE		
3441-1	1,579	LINEAR FOOT	LOOP WIRE		
3500-1	5	EACH	PEDESTRIAN LIGHTING "P2" (LED) INSTALLATION		
3500-2	54	EACH	STREET LIGHT POLE FOUNDATION "P1"		
3500-3	11,170	LINEAR FOOT	6#6 & 1#12 GND - IN 2" C.		
3500-4	2	EACH	LIGHTING CONTROL FEEDER		
3500-5	2	EACH	LIGHTING CONTROL PANEL WITH CONCRETE PAD		
3500-6	200	LINEAR FOOT	2 - 3" C WITH PULL STRING		
3500-7	5	EACH	PEDESTRIAN LIGHTING "P2" (LED) FOUNDATION		
3500-8	54	EACH	STREET LIGHT POLE "P1" INSTALLATION		
3500-9	22	EACH	IT CABINET INSTALLATION		
3600-1	1	LUMP SUM	UTILITY SERVICE FEE ALLOWANCE (MAXIMUM BID LIMITED TO \$ 10,000.00)		
Total Base Bid Amount					



City of Tuscaloosa
 10th Avenue City Walk and Roadway Improvements
 Project No. 2016.129.001
ADDITIVE ALTERNATE BID NO.1
Contract Schedule



City of
TUSCALOOSA

The following represents the bidder's schedule of contract unit prices for this proposal (bidder to complete below):

Item No.	Quantity	Unit	Description	Unit Cost	Amount Bid
2104-11	1	EACH	REMOVING METAL POLE WITH LIGHT AND BASE (PEDESTRIAN CAUTION LIGHT)		
2400-1	670	SQUARE YARD	PLANING EXISTING PAVEMENT (APPROXIMATELY 0.00" THRU 1.0" THICK)		
2500-4	208	TON	SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (135 LB/SY)		
2290-5	60	LINEAR FOOT	WATTLE		
2585-3	1	MILE	SOLID YELLOW, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)		
2585-4	1	MILE	BROKEN WHITE, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)		
2585-6	1	MILE	SOLID TEMPORARY TRAFFIC STRIPE		
2585-7	95	SQUARE FOOT	TRAFFIC CONTROL MARKINGS, CLASS 2, TYPE A		
2585-10	15	EACH	PAVEMENT MARKERS, CLASS A-H, TYPE 2-D		
3441-1	659	LINEAR FOOT	LOOP WIRE		
Total Alternate Bid No.1 Amount					

SECTION 02723 – Manhole Height Adjustment

PART 1 - GENERAL

1.01 Related Documents:

- A. Drawings and general provisions of the contract, including General and Supplementary Conditions and Front End Bid Documents, apply to this section.

1.02 Summary:

- A. This section shall cover the work of furnishing and installing manhole height adjustments to finished grade of asphalt pavement.

1.03 Materials:

- A. Materials shall be those necessary to adjust manhole cover to be flush with finished grade of asphalt pavement.

1.04 Measurement and Payment

- A. Measurement of Manhole Height Adjustment shall be each.
- B. Payment for Manhole Height Adjustment shall be at the contract unit price which shall be full compensation for materials, installation, equipment, tools, labor, and incidentals necessary to complete the work.

END OF SECTION 02723

SECTION 015106 – Valve Height Adjustment

PART 1 - GENERAL

1.01 Related Documents:

- A. Drawings and general provisions of the contract, including General and Supplementary Conditions and Front End Bid Documents, apply to this section.

1.02 Summary:

- A. This section shall cover the work of furnishing and installing valve height adjustments to finished grade of asphalt pavement.

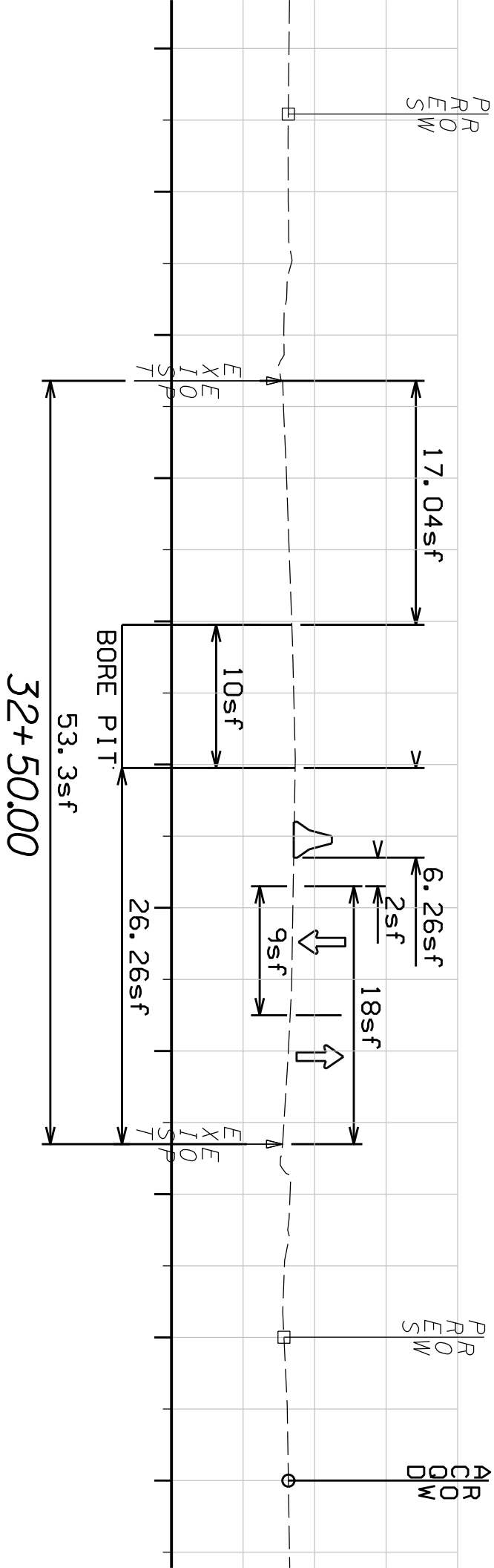
1.03 Materials:

- A. Materials shall be those necessary to adjust valve to be flush with finished grade of asphalt pavement.

1.04 Measurement and Payment

- A. Measurement of Valve Height Adjustment shall be each.
- B. Payment for Valve Height Adjustment shall be at the contract unit price which shall be full compensation for materials, installation, equipment, tools, labor, and incidentals necessary to complete the work.

END OF SECTION 015106





BORING LOCATION SCHEMATIC

Neel Schaffer, Inc.
10th Avenue Improvements
City of Tuscaloosa Project No. A15-1211
Tuscaloosa County

DRAWING PATH: \\s16.1.1.8\Tuscaloosa Projects\2013\100113\065 10th Avenue City WalkDrawings\13-065 PLN 2014.dwg		
DATE CREATED: 03/08/2016	CREATED BY: mjc	CHECKED BY: HKE
DATE REVISED: N/A	REVISION NO.: N/A	REVISOR: N/A
TTL PROJECT NO.: 100113065	SCALE: 1" = 100'	SHEET: PLN-01 OF 4
GEOTECHNICAL ENGINEER: Harvey F. Upchurch, Jr., P.E.		MODIFIED FROM ORIGINAL DRAWING BY: Neel Schaffer, Inc.

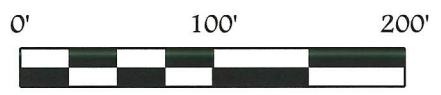
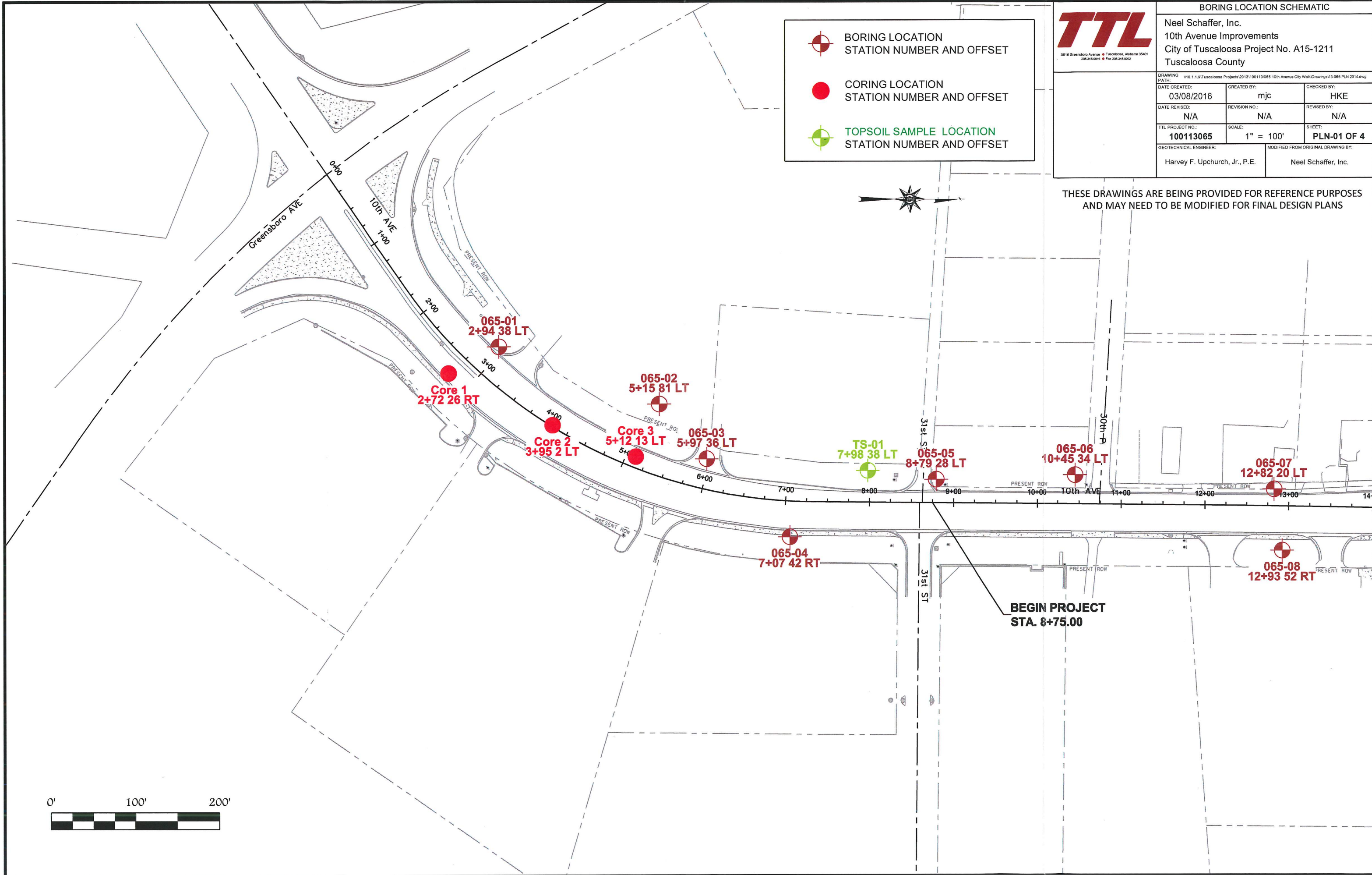
BORING LOCATION
STATION NUMBER AND OFFSET

CORING LOCATION
STATION NUMBER AND OFFSET

TOPSOIL SAMPLE LOCATION
STATION NUMBER AND OFFSET



THESE DRAWINGS ARE BEING PROVIDED FOR REFERENCE PURPOSES
AND MAY NEED TO BE MODIFIED FOR FINAL DESIGN PLANS





BORING LOCATION SCHEMATIC

Neel Schaffer, Inc.
10th Avenue Improvements
City of Tuscaloosa Project No. A15-1211
Tuscaloosa County


DRAWING PATH: \\10.1.1\Tuscaloosa Projects\2013\100113\085 10th Avenue City Walk\Drawings\13-085 PLN 2014.dwg


DATE CREATED: 03/08/2016 CREATED BY: mjc CHECKED BY: HKE

DATE REVISED: N/A REVISION NO.: N/A REVISED BY: N/A

TTL PROJECT NO.: 100113065 SCALE: 1" = 100' SHEET: PLN-02 OF 4

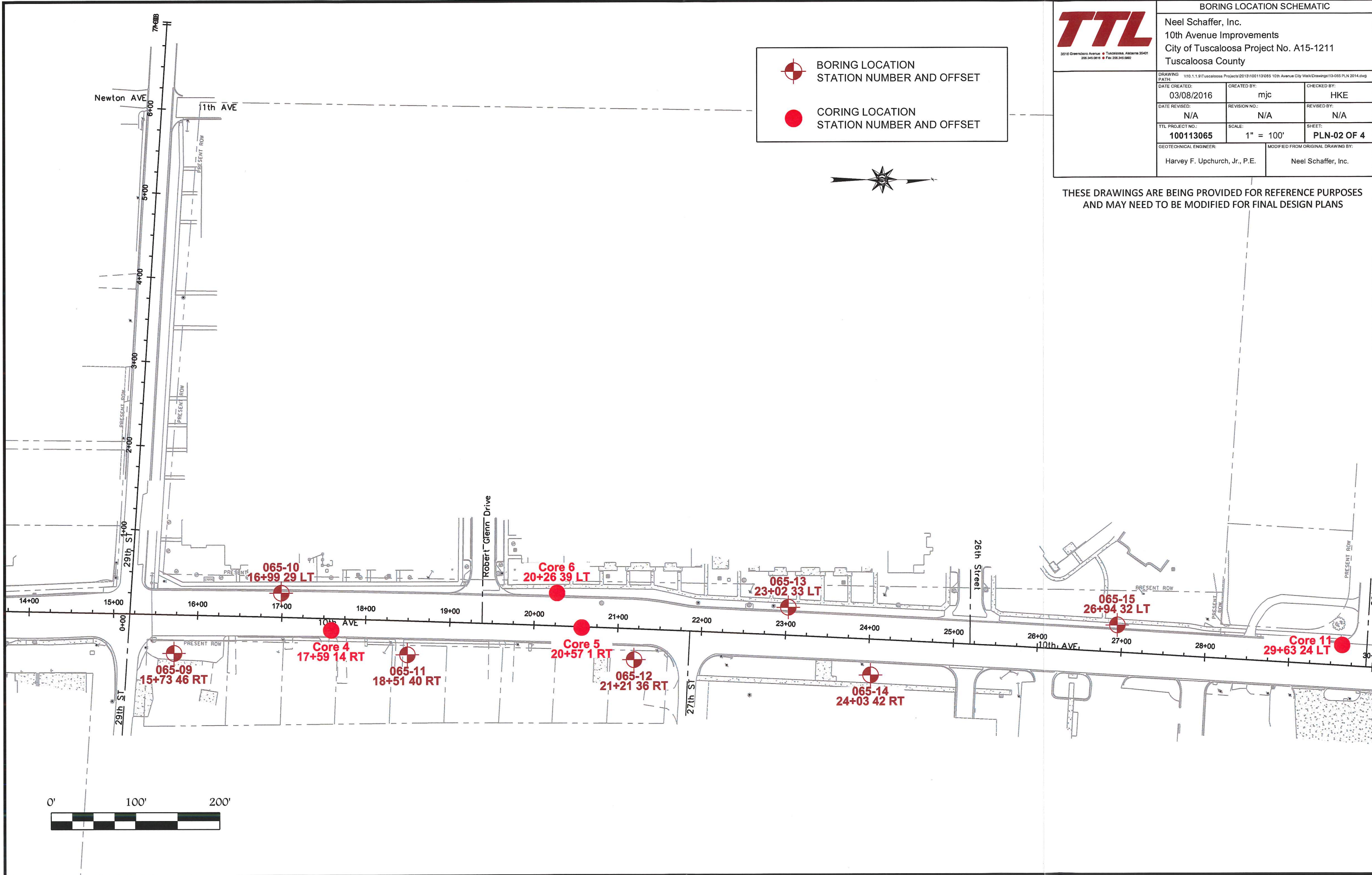
GEOTECHNICAL ENGINEER: Harvey F. Upchurch, Jr., P.E. MODIFIED FROM ORIGINAL DRAWING BY: Neel Schaffer, Inc.

 BORING LOCATION
STATION NUMBER AND OFFSET

 CORING LOCATION
STATION NUMBER AND OFFSET



THESE DRAWINGS ARE BEING PROVIDED FOR REFERENCE PURPOSES
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BORING LOCATION SCHEMATIC

Neel Schaffer, Inc.
10th Avenue Improvements
City of Tuscaloosa Project No. A15-1211
Tuscaloosa County

DRAWING PATH: \\10.1.911.tuscaloosa.projects\2013\100113\065 10th Avenue City Walk\Drawings\13-065 PLN 2014.dwg

DATE CREATED: 03/08/2016
CREATED BY: mjc
CHECKED BY: HKE

DATE REVISED: N/A
REVISION NO.: N/A
REVISED BY: N/A

TTL PROJECT NO.: 100113065
SCALE: 1" = 100'
SHEET: PLN-03 OF 4

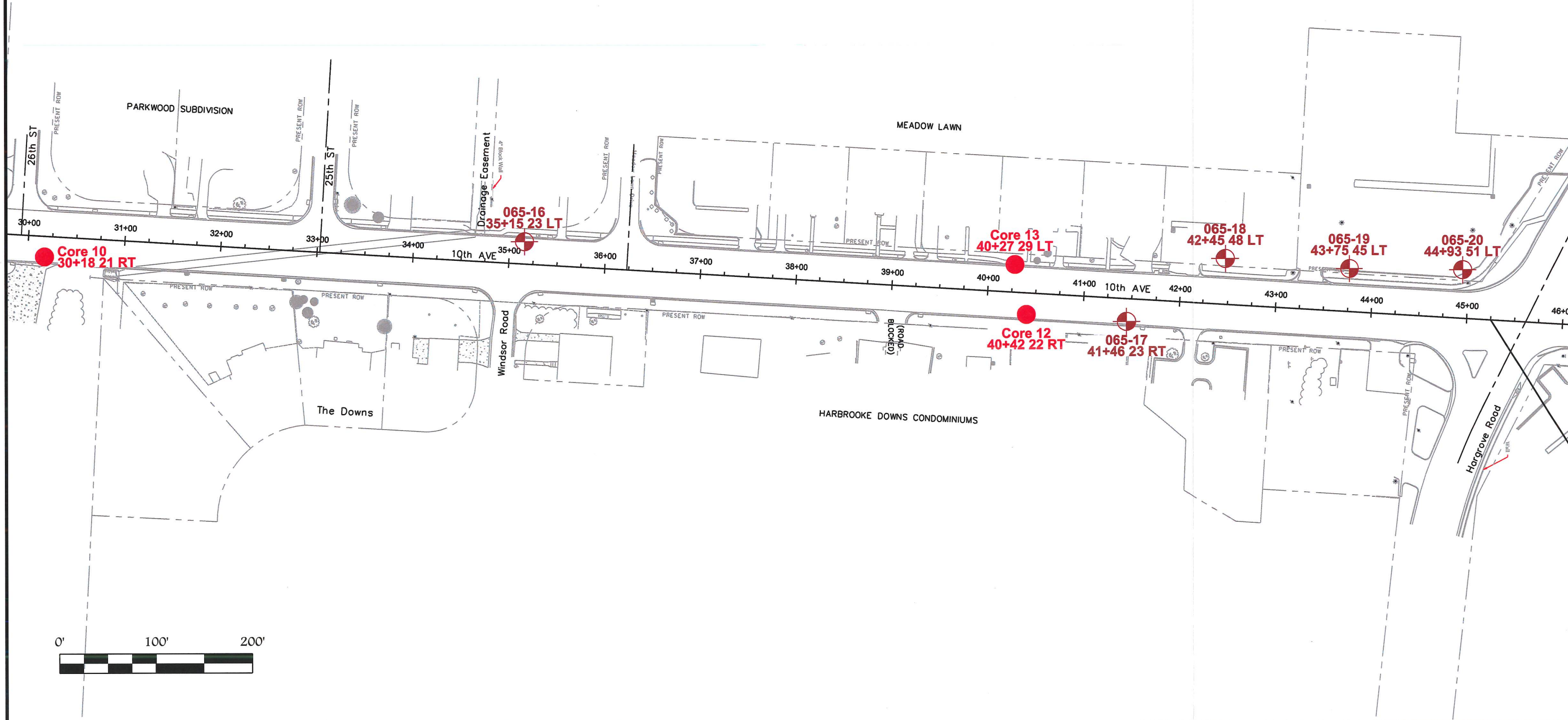
GEOTECHNICAL ENGINEER: Harvey F. Upchurch, Jr., P.E.
MODIFIED FROM ORIGINAL DRAWING BY: Neel Schaffer, Inc.

BORING LOCATION
STATION NUMBER AND OFFSET

CORING LOCATION
STATION NUMBER AND OFFSET



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AND MAY NEED TO BE MODIFIED FOR FINAL DESIGN PLANS





BORING LOCATION SCHEMATIC

Neel Schaffer, Inc.
10th Avenue Improvements
City of Tuscaloosa Project No. A15-1211
Tuscaloosa County

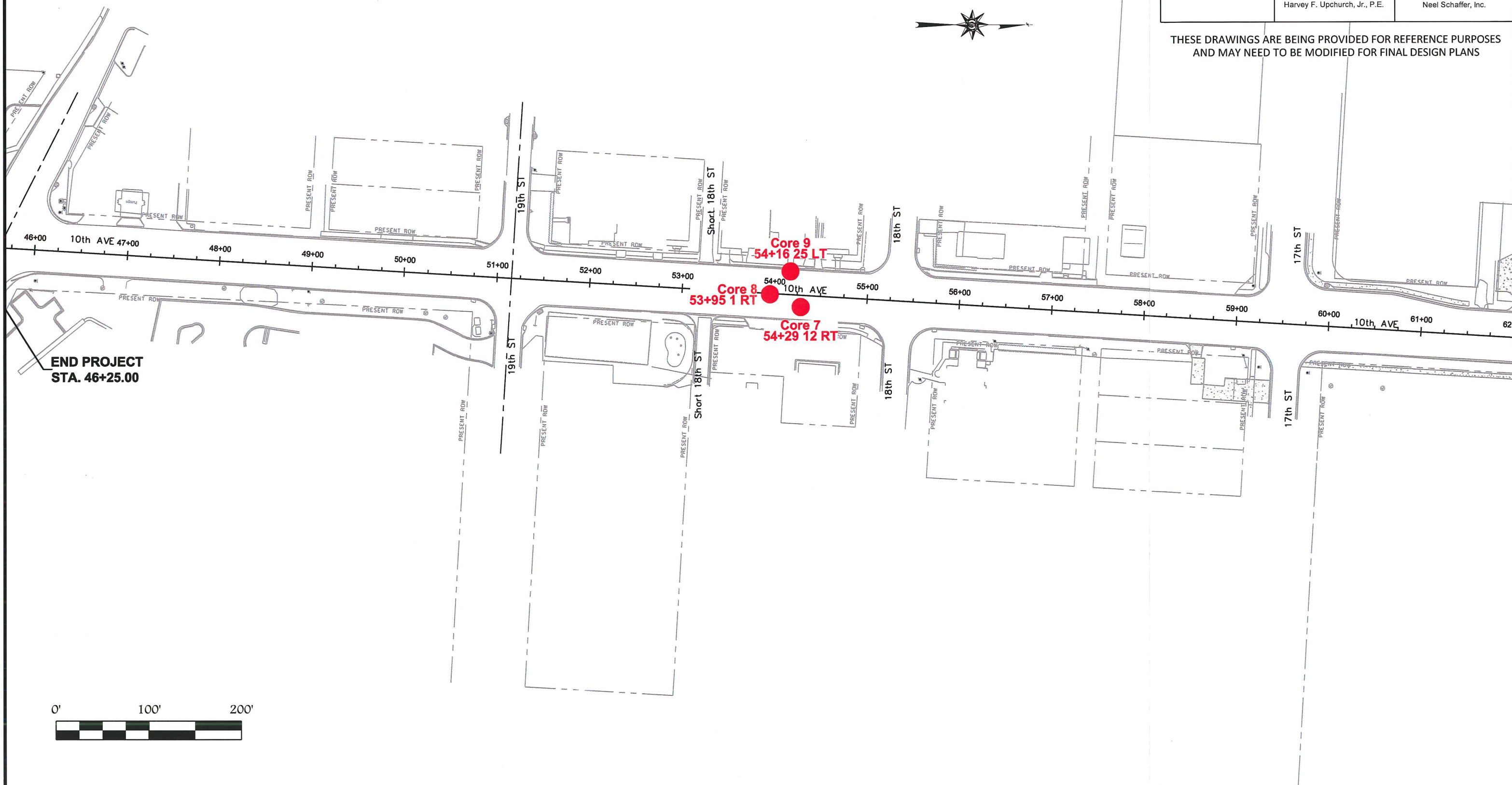
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DATE REVISED: N/A	REVISION NO.: N/A	REVISED BY: N/A
TTL PROJECT NO.: 100113065	SCALE: 1" = 100'	SHEET: PLN-04 OF 4
GEOTECHNICAL ENGINEER: Harvey F. Upchurch, Jr., P.E.		MODIFIED FROM ORIGINAL DRAWING BY: Neel Schaffer, Inc.

BORING LOCATION
STATION NUMBER AND OFFSET

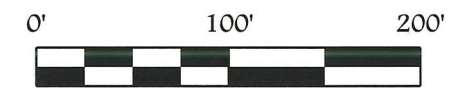
CORING LOCATION
STATION NUMBER AND OFFSET



THESE DRAWINGS ARE BEING PROVIDED FOR REFERENCE PURPOSES
AND MAY NEED TO BE MODIFIED FOR FINAL DESIGN PLANS



END PROJECT
STA. 46+25.00



Soil (AASHTO Classification)

	A-1	WELL GRADED GRAVEL OR SAND; MAY INCLUDE FINES
	A-1a	LARGELY GRAVEL BUT CAN INCLUDE SAND AND FINES
	A-1b	GRAVELLY SAND OR GRADED SAND; MAY INCLUDE FINES
	A-2	SANDS AND GRAVELS WITH FINES
	A-2-4	SANDS, GRAVELS WITH ELASTIC SILT FINES LL<=40, PI<=10
	A-2-5	SANDS, GRAVELS WITH ELASTIC SILT FINES LL>=41, PI<=10
	A-2-6	SANDS, GRAVELS WITH CLAY FINES LL<=40, PI>=11
	A-2-7	SANDS, GRAVELS WITH HIGHLY PLASTIC CLAY FINES LL>=41, PI>=11
	A-3	FINE SANDS
	A-4	LOW COMPRESSIBILITY SILTS
	A-5	HIGH COMPRESSIBILITY SILTS, MICACEOUS SILTS
	A-6	LOW-TO-MEDIUM COMPRESSIBILITY CLAYS
	A-7	HIGH COMPRESSIBILITY CLAYS
	A-7-5	HIGH COMPRESSIBILITY SILTY CLAYS PI<=LL-30
	A-7-6	HIGH COMPRESSIBILITY, HIGH VOLUME-CHANGE CLAYS PI>LL-30
	A-8	PEAT, HIGHLY ORGANIC SOILS

Rock

	CHALK
	COAL
	DOLOMITE
	GNEISS
	GRANITE
	LIMESTONE
	QUARTZITE
	SANDSTONE
	SAPROLITE
	SCHIST
	SHALE
	SILTSTONE

Other Materials

	BITUMINOUS CONCRETE
	BOULDERS & COBBLES
	CONCRETE
	CRUSHED STONE
	DEBRIS
	FILL
	TOPSOIL

Samplers

	AUGER CUTTINGS
	BULK SAMPLE
	CONTINUOUS SAMPLER
	DYNAMIC CONE PENETROMETER
	PITCHER SAMPLER or PRESSUREMETER
	ROCK CORE
	SHELBY TUBE
	SPLIT SPOON WITH NO RECOVERY

Water Level Symbols

	WATER LEVEL AT TIME OF DRILLING
	DELAYED WATER LEVEL
	CAVE-IN DEPTH

Existing Profile

Future Grade

General Notes:

N = Penetration in blows per foot (AASHTO T-206) (ASTM D 1586)

RQD/REC = Rock Quality Designation (RQD) / Recovery (REC)

A horizontal solid line in the material description column of the test boring record indicates a change in the AASHTO classification of the material. A dashed line indicates a significant change in color, moisture, consistency or additional materials within the same AASHTO classification.

Project Notes:

The subsurface investigation for this project was conducted on 02/10/2015 and 02/11/2015 by personnel from TTL, Inc.

 <small>2016 Greenboro Avenue • Tuscaloosa, Alabama 35401 205.343.0818 • Fax: 205.343.0807</small>	Neel Schaffer, Inc. 10th Avenue Improvements Tuscaloosa County
	APPROVED: Harvey F. Upchurch, Jr., P.E. GEOTECHNICAL ENGINEER DATE: 03/08/2016

STATION 2+94 38 FT LEFT OF CENTERLINE

Logged by: B. Wysock	Date Drilled: 2/10/2015	Remarks: TTL Boring No. 065-01									
Equipment: CME 45	Boring Depth: 6.0 feet	Water not encountered at time of drilling.									
Hammer Type: Automatic	Boring Elevation: 188.4 feet	Coordinates: N 1157288 E 1952504									
Drilling Method: Hollow Stem Auger w/SPT Sampling											
		SAMPLE DATA					REMARKS				
DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	AASHTO	MATERIAL DESCRIPTION	W.C. (%)	SAMPLE INTERVAL (ft) & NUMBER	TYPE	N	PPV (tsf)	CORE ROD % REC	
0			A-6	Very stiff, moist, brown sandy lean CLAY		0-1.5		16			
			A-2	Firm, moist, reddish-brown clayey SAND		1.5-3		19			
185			A-6	Soft, very moist, gray sandy lean CLAY		3-4.5		3			
5				Very stiff, moist, gray and brown sandy lean CLAY		4.5-6		19			
Topsoil = 0.3 ft											

Boring terminated at 6.0 feet

STATION 5+15 81 FT LEFT OF CENTERLINE

Logged by: B. Wysock	Date Drilled: 2/10/2015	Remarks: TTL Boring No. 065-02									
Equipment: CME 45	Boring Depth: 8.5 feet	Water not encountered at time of drilling.									
Hammer Type: Automatic	Boring Elevation: 189.1 feet	Coordinates: N 1157478 E 1952572									
Drilling Method: Hollow Stem Auger w/SPT Sampling											
		SAMPLE DATA					REMARKS				
DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	AASHTO	MATERIAL DESCRIPTION	W.C. (%)	SAMPLE INTERVAL (ft) & NUMBER	TYPE	N	PPV (tsf)	CORE ROD % REC	
0			A-6	Firm, moist to very moist, brown sandy lean CLAY		0-1.5		6			
						1.5-3		8			
185				Stiff, moist, gray and brown sandy lean CLAY		3-4.5		10			
5						4.5-6		12			
						7-8.5		13			
Topsoil = 0.3 ft											

Boring terminated at 8.5 feet

STATION 5+97 36 FT LEFT OF CENTERLINE

Logged by: B. Wysock	Date Drilled: 2/10/2015	Remarks: TTL Boring No. 065-03									
Equipment: CME 45	Boring Depth: 8.5 feet	Water not encountered at time of drilling.									
Hammer Type: Automatic	Boring Elevation: 189.1 feet	Coordinates: N 1157535 E 1952637									
Drilling Method: Hollow Stem Auger w/SPT Sampling											
		SAMPLE DATA					REMARKS				
DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	AASHTO	MATERIAL DESCRIPTION	W.C. (%)	SAMPLE INTERVAL (ft) & NUMBER	TYPE	N	PPV (tsf)	CORE ROD % REC	
0			A-2	Asphaltic CONCRETE (1")		0-1.5		10			
			A-6	Loose, moist, red clayey SAND with gravel (fill)		1.5-3		9			
				Stiff, moist, gray and brown sandy lean CLAY		3-4.5		10			
185						4.5-6		10			
5						7-8.5		15			
Group Index:(3) Percent Passing #200 sieve=55 LL=26 PI=11											

Boring terminated at 8.5 feet

STATION 7+07 42 FT RIGHT OF CENTERLINE

Logged by: B. Wysock	Date Drilled: 2/10/2015	Remarks: TTL Boring No. 065-04									
Equipment: CME 45	Boring Depth: 6.0 feet	Water not encountered at time of drilling.									
Hammer Type: Automatic	Boring Elevation: 190.1 feet	Coordinates: N 1157634 E 1952730									
Drilling Method: Hollow Stem Auger w/SPT Sampling											
		SAMPLE DATA					REMARKS				
DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	AASHTO	MATERIAL DESCRIPTION	W.C. (%)	SAMPLE INTERVAL (ft) & NUMBER	TYPE	N	PPV (tsf)	CORE ROD % REC	
0	190		A-2-4	Very loose to firm, moist, brown and red silty, clayey SAND	10	0-1.5		4			
						1.5-3		12			
			A-6	Firm, moist, brown and gray sandy lean CLAY		3-4.5		6			
5	185					4.5-6		7			
Topsoil = 0.5 ft Group Index:(0) Percent Passing #200 sieve=32 LL=17 PI=5											

Boring terminated at 6.0 feet

STATION 8+79 28 FT LEFT OF CENTERLINE

Logged by: B. Wysock	Date Drilled: 2/10/2015	Remarks: TTL Boring No. 065-05									
Equipment: CME 45	Boring Depth: 8.5 feet	Water not encountered at time of drilling.									
Hammer Type: Automatic	Boring Elevation: 188.8 feet	Coordinates: N 1157808 E 1952662									
Drilling Method: Hollow Stem Auger w/SPT Sampling											
		SAMPLE DATA					REMARKS				
DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	AASHTO	MATERIAL DESCRIPTION	W.C. (%)	SAMPLE INTERVAL (ft) & NUMBER	TYPE	N	PPV (tsf)	CORE ROD % REC	
0			A-6	Firm, moist, brown sandy lean CLAY		0-1.5		7			
				Firm to soft, wet, yellowish-brown sandy lean CLAY		1.5-3		5			
185						3-4.5		2			
5				Firm, wet, yellowish-brown sandy lean CLAY		4.5-6		7			
				Very stiff, moist, brown and gray sandy lean CLAY		7-8.5		18			
Topsoil = 0.3 ft											

Boring terminated at 8.5 feet

STATION 10+45 34 FT LEFT OF CENTERLINE

Logged by: B. Wysock	Date Drilled: 2/10/2015	Remarks: TTL Boring No. 065-06									
Equipment: CME 45	Boring Depth: 6.0 feet	Water not encountered at time of drilling.									
Hammer Type: Automatic	Boring Elevation: 186.4 feet	Coordinates: N 1157974 E 1952657									
Drilling Method: Hollow Stem Auger w/SPT Sampling											
		SAMPLE DATA					REMARKS				
DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	AASHTO	MATERIAL DESCRIPTION	W.C. (%)	SAMPLE INTERVAL (ft) & NUMBER	TYPE	N	PPV (tsf)	CORE ROD % REC	
0			A-2	Loose, moist, grayish-brown clayey SAND		0-1.5		8			
			A-6	Stiff, moist, yellowish-brown sandy lean CLAY		1.5-3		10			
185						3-4.5		9			
5				Stiff to firm, moist, brown and gray sandy lean CLAY		4.5-6		8			
Topsoil = 0.2 ft											

Boring terminated at 6.0 feet

STATION 12+82 20 FT LEFT OF CENTERLINE


Logged by: B. Wysock	Date Drilled: 2/11/2015	Remarks: TTL Boring No. 065-07									
Equipment: CME 45	Boring Depth: 6.0 feet	Water not encountered at time of drilling.									
Hammer Type: Automatic	Boring Elevation: 186.1 feet	Coordinates: N 1158211 E 1952674									
Drilling Method: Hollow Stem Auger w/SPT Sampling											
		SAMPLE DATA					REMARKS				
DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	AASHTO	MATERIAL DESCRIPTION	W.C. (%)	SAMPLE INTERVAL (ft) & NUMBER	TYPE	N	PPV (tsf)	CORE ROD % REC	
0			A-2-4	Very loose, moist, brown silty, clayey SAND with gravel	13	0-1.5		4			
			A-6	Firm, wet, gray lean CLAY with sand		1.5-3		7			
						3-4.5		7			
185						4.5-6		8			
5				Firm, moist, gray and brown sandy lean CLAY							
Group Index:(0) Percent Passing #200 sieve=34 LL=20 PI=7											

Boring terminated at 6.0 feet

STATION 12+93 52 FT RIGHT OF CENTERLINE

Logged by: B. Wysock	Date Drilled: 2/10/2015	Remarks: TTL Boring No. 065-08									
Equipment: CME 45	Boring Depth: 6.0 feet	Water not encountered at time of drilling.									
Hammer Type: Automatic	Boring Elevation: 185.6 feet	Coordinates: N 1158221 E 1952747									
Drilling Method: Hollow Stem Auger w/SPT Sampling											
		SAMPLE DATA					REMARKS				
DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	AASHTO	MATERIAL DESCRIPTION	W.C. (%)	SAMPLE INTERVAL (ft) & NUMBER	TYPE	N	PPV (tsf)	CORE ROD % REC	
0			A-2	Loose, moist, brown clayey SAND		0-1.5		10			
			A-6	Very stiff, moist, gray lean CLAY with sand		1.5-3		17			
				Firm to stiff, moist, brown and gray sandy lean CLAY		3-4.5		9			
185						4.5-6		12			
5											
Topsoil = 0.2 ft											

Boring terminated at 6.0 feet

	Neel Schaffer, Inc.
	10th Avenue Improvements Tuscaloosa County
APPROVED: Harvey F. Upchurch, Jr., P.E.	City of Tuscaloosa Project No. A15-1211
DATE: 03/08/2016	TEST BORING RECORD SHEET LOG-02 OF 4

STATION 15+73 46 FT RIGHT OF CENTERLINE

Logged by: B. Wysock	Date Drilled: 2/10/2015	Remarks: TTL Boring No. 065-09									
Equipment: CME 45	Boring Depth: 6.0 feet	Water not encountered at time of drilling.									
Hammer Type: Automatic	Boring Elevation: 186.5 feet	Coordinates: N 1158500 E 1952745									
Drilling Method: Hollow Stem Auger w/SPT Sampling											
DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	ASHTO	MATERIAL DESCRIPTION	SAMPLE DATA						
					W.C. (%)	SAMPLE INTERVAL (ft) & NUMBER	TYPE	N	PPV (tsf)	CORE ROD % REC	REMARKS
0			A-6	Firm, moist, yellowish-brown lean CLAY with sand		0-1.5		7			
185				Soft, very moist, brown and gray lean CLAY with sand		1.5-3		4			
				Stiff to firm, moist, brown and gray sandy lean CLAY		3-4.5		11			
5						4.5-6		8			

Boring terminated at 6.0 feet

STATION 16+99 29 FT LEFT OF CENTERLINE

Logged by: B. Wysock	Date Drilled: 2/10/2015	Remarks: TTL Boring No. 065-10									
Equipment: CME 45	Boring Depth: 6.0 feet	Water not encountered at time of drilling.									
Hammer Type: Automatic	Boring Elevation: 186.2 feet	Coordinates: N 1158628 E 1952674									
Drilling Method: Hollow Stem Auger w/SPT Sampling											
DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	ASHTO	MATERIAL DESCRIPTION	SAMPLE DATA						
					W.C. (%)	SAMPLE INTERVAL (ft) & NUMBER	TYPE	N	PPV (tsf)	CORE ROD % REC	REMARKS
0				Asphaltic CONCRETE (4")							
			A-2	Crushed AGGREGATE (2")							
185			A-6	Firm, moist, red clayey SAND with gravel		0-1.5		12			
				Stiff, moist, gray lean CLAY with sand		1.5-3		11			
				Stiff, moist, brown and gray sandy lean CLAY		3-4.5		14			
5						4.5-6		15			

Boring terminated at 6.0 feet

STATION 18+51 40 FT RIGHT OF CENTERLINE

Logged by: B. Wysock	Date Drilled: 2/10/2015	Remarks: TTL Boring No. 065-11									
Equipment: CME 45	Boring Depth: 6.0 feet	Water not encountered at time of drilling.									
Hammer Type: Automatic	Boring Elevation: 186.1 feet	Coordinates: N 1158778 E 1952748									
Drilling Method: Hollow Stem Auger w/SPT Sampling											
DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	ASHTO	MATERIAL DESCRIPTION	SAMPLE DATA						
					W.C. (%)	SAMPLE INTERVAL (ft) & NUMBER	TYPE	N	PPV (tsf)	CORE ROD % REC	REMARKS
0			A-6	Soft, very moist, yellowish-brown lean CLAY with sand		0-1.5		4			
185				Firm, moist, brown and gray sandy lean CLAY with brick debris		1.5-3		6			Group Index(4) Percent Passing #200 sieve=56 LL=26 PI=12
				Stiff to very stiff, moist, gray and brown sandy lean CLAY		3-4.5		12			
5						4.5-6		16			

Boring terminated at 6.0 feet

STATION 21+21 36 FT RIGHT OF CENTERLINE

Logged by: B. Wysock	Date Drilled: 2/10/2015	Remarks: TTL Boring No. 065-12									
Equipment: CME 45	Boring Depth: 6.0 feet	Water not encountered at time of drilling.									
Hammer Type: Automatic	Boring Elevation: 184.5 feet	Coordinates: N 1159047 E 1952754									
Drilling Method: Hollow Stem Auger w/SPT Sampling											
DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	ASHTO	MATERIAL DESCRIPTION	SAMPLE DATA						
					W.C. (%)	SAMPLE INTERVAL (ft) & NUMBER	TYPE	N	PPV (tsf)	CORE ROD % REC	REMARKS
0			A-6	Firm, moist to wet, yellowish-brown sandy lean CLAY		0-1.5		6			Topsoil = 0.5 ft
180				Stiff, moist, brown and gray sandy lean CLAY		1.5-3		5			Group Index(5) Percent Passing #200 sieve=64 LL=26 PI=13
						3-4.5		10			
5						4.5-6		13			

Boring terminated at 6.0 feet

STATION 23+02 33 FT LEFT OF CENTERLINE

Logged by: B. Wysock	Date Drilled: 2/11/2015	Remarks: TTL Boring No. 065-13									
Equipment: CME 45	Boring Depth: 6.0 feet	Water not encountered at time of drilling.									
Hammer Type: Automatic	Boring Elevation: 182.9 feet	Coordinates: N 1159232 E 1952693									
Drilling Method: Hollow Stem Auger w/SPT Sampling											
DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	ASHTO	MATERIAL DESCRIPTION	SAMPLE DATA						
					W.C. (%)	SAMPLE INTERVAL (ft) & NUMBER	TYPE	N	PPV (tsf)	CORE ROD % REC	REMARKS
0			A-2	Loose, moist, red clayey SAND		0-1.5		7			
180			A-6	Firm to very stiff, moist, brown and gray sandy lean CLAY		1.5-3		5			
						3-4.5		13			
5						4.5-6		16			

Boring terminated at 6.0 feet

STATION 24+03 42 FT RIGHT OF CENTERLINE

Logged by: B. Wysock	Date Drilled: 2/10/2015	Remarks: TTL Boring No. 065-14									
Equipment: CME 45	Boring Depth: 6.0 feet	Water not encountered at time of drilling.									
Hammer Type: Automatic	Boring Elevation: 182.6 feet	Coordinates: N 1159329 E 1952773									
Drilling Method: Hollow Stem Auger w/SPT Sampling											
DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	ASHTO	MATERIAL DESCRIPTION	SAMPLE DATA						
					W.C. (%)	SAMPLE INTERVAL (ft) & NUMBER	TYPE	N	PPV (tsf)	CORE ROD % REC	REMARKS
0			A-6	Stiff, moist, brown lean CLAY with sand		0-1.5		13			
180				Firm to stiff, very moist, to moist, gray and brown sandy lean CLAY		1.5-3		10			
						3-4.5		6			
5						4.5-6		11			

Boring terminated at 6.0 feet

STATION 26+94 32 FT LEFT OF CENTERLINE


Logged by: B. Wysock	Date Drilled: 2/11/2015	Remarks: TTL Boring No. 065-15									
Equipment: CME 45	Boring Depth: 6.0 feet	Water not encountered at time of drilling.									
Hammer Type: Automatic	Boring Elevation: 179.4 feet	Coordinates: N 1159623 E 1952714									
Drilling Method: Hollow Stem Auger w/SPT Sampling											
DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	ASHTO	MATERIAL DESCRIPTION	SAMPLE DATA						
					W.C. (%)	SAMPLE INTERVAL (ft) & NUMBER	TYPE	N	PPV (tsf)	CORE ROD % REC	REMARKS
0			A-6	Firm, moist, gray lean CLAY with gravel		0-1.5		6			Topsoil = 0.2 ft
				Stiff, moist, gray and brown sandy lean CLAY		1.5-3		12			
				Soft, wet, gray lean CLAY with sand		3-4.5		2			
175				Stiff, moist, gray lean CLAY with sand		4.5-6		11			

Boring terminated at 6.0 feet

STATION 35+15 23 FT LEFT OF CENTERLINE

Logged by: B. Wysock	Date Drilled: 2/11/2015	Remarks: TTL Boring No. 065-16									
Equipment: CME 45	Boring Depth: 6.0 feet	Water not encountered at time of drilling.									
Hammer Type: Automatic	Boring Elevation: 178.1 feet	Coordinates: N 1160442 E 1952773									
Drilling Method: Hollow Stem Auger w/SPT Sampling											
DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	ASHTO	MATERIAL DESCRIPTION	SAMPLE DATA						
					W.C. (%)	SAMPLE INTERVAL (ft) & NUMBER	TYPE	N	PPV (tsf)	CORE ROD % REC	REMARKS
0				Asphaltic CONCRETE (4")							
			A-2	Crushed AGGREGATE (2")							
				Firm, moist, red clayey SAND with gravel		0-1.5		18			
				Loose, moist, red clayey SAND		1.5-3		13			
175			A-6	Soft to firm, moist, gray lean CLAY with sand		3-4.5		4			
5						4.5-6		7			

Boring terminated at 6.0 feet

 <p>3516 Greenboro Avenue • Tuscaloosa, Alabama 35401 205.343.8818 • Fax: 205.343.0801</p>	Neel Schaffer, Inc.
	10th Avenue Improvements
	Tuscaloosa County
	APPROVED: Harvey F. Upchurch, Jr., P.E.
GEOTECHNICAL ENGINEER	City of Tuscaloosa Project No. A15-1211
DATE: 03/08/2016	TEST BORING RECORD SHEET LOG-03 OF 4

STATION 41+46 23 FT RIGHT OF CENTERLINE

Logged by: B. Wysock	Date Drilled: 2/10/2015	Remarks: TTL Boring No. 065-17									
Equipment: CME 45	Boring Depth: 6.0 feet	Water not encountered at time of drilling.									
Hammer Type: Automatic	Boring Elevation: 186.3 feet	Coordinates: N 1161069 E 1952858									
Drilling Method: Hollow Stem Auger w/SPT Sampling											
DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	ASTM	MATERIAL DESCRIPTION	SAMPLE DATA						
					W.C. (%)	SAMPLE INTERVAL (ft) & NUMBER	TYPE	N	PPV (tsf)	CORE ROD # & REC.	REMARKS
0				Asphaltic CONCRETE (4")							
			A-2	Crushed AGGREGATE (2")		0-1.5		7			
			A-6	Loose, moist, red clayey SAND with gravel		1.5-3		8			
				Firm to stiff, wet, to moist, gray and brown sandy lean CLAY		3-4.5		7			
						4.5-6		10			

Boring terminated at 6.0 feet

STATION 42+45 48 FT LEFT OF CENTERLINE

Logged by: B. Wysock	Date Drilled: 2/11/2015	Remarks: TTL Boring No. 065-18									
Equipment: CME 45	Boring Depth: 6.0 feet	Water not encountered at time of drilling.									
Hammer Type: Automatic	Boring Elevation: 190.6 feet	Coordinates: N 1161173 E 1952793									
Drilling Method: Hollow Stem Auger w/SPT Sampling											
DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	ASTM	MATERIAL DESCRIPTION	SAMPLE DATA						
					W.C. (%)	SAMPLE INTERVAL (ft) & NUMBER	TYPE	N	PPV (tsf)	CORE ROD # & REC.	REMARKS
0				Asphaltic CONCRETE (1")							
			A-2	Loose, moist, red clayey SAND with gravel		0-1.5		9			
				Loose, moist, brown clayey SAND		1.5-3		8			
				Firm, wet, brown and gray clayey SAND		3-4.5		14			
				Loose, moist, to wet, gray clayey SAND		4.5-6		9			

Boring terminated at 6.0 feet

STATION 43+75 45 FT LEFT OF CENTERLINE


Logged by: B. Wysock	Date Drilled: 2/11/2015	Remarks: TTL Boring No. 065-19									
Equipment: CME 45	Boring Depth: 16.0 feet	Coordinates: N 1161302 E 1952803									
Hammer Type: Automatic	Boring Elevation: 197.2 feet										
Drilling Method: Hollow Stem Auger w/SPT Sampling											
DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	ASTM	MATERIAL DESCRIPTION	SAMPLE DATA						
					W.C. (%)	SAMPLE INTERVAL (ft) & NUMBER	TYPE	N	PPV (tsf)	CORE ROD # & REC.	REMARKS
0				Asphaltic CONCRETE (1")							
			A-2	Loose, moist, red clayey SAND with gravel		0-1.5		6			
						1.5-3		9			
						3-4.5		12			
			A-6	Stiff, moist, brown lean CLAY with sand		4.5-6		11			
				Very stiff, moist, brown and gray sandy lean CLAY		7-8.5		18			
						9.5-11		19			
			A-2	Dense to firm, wet, brown clayey SAND with gravel		12-13.5		32			
						14.5-16		13			

Boring terminated at 16.0 feet

STATION 44+93 51 FT LEFT OF CENTERLINE

Logged by: B. Wysock	Date Drilled: 2/11/2015	Remarks: TTL Boring No. 065-20									
Equipment: CME 45	Boring Depth: 16.0 feet	Coordinates: N 1161420 E 1952805									
Hammer Type: Automatic	Boring Elevation: 199.4 feet										
Drilling Method: Hollow Stem Auger w/SPT Sampling											
DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	ASTM	MATERIAL DESCRIPTION	SAMPLE DATA						
					W.C. (%)	SAMPLE INTERVAL (ft) & NUMBER	TYPE	N	PPV (tsf)	CORE ROD # & REC.	REMARKS
0				Asphaltic CONCRETE (2")							
			A-2	Loose, moist, red clayey SAND with gravel		0-1.5		5			
				Dense to very dense, moist, red clayey SAND with gravel		1.5-3		34			
						3-4.5		47			
						4.5-6		54			
				Loose, moist, red clayey SAND		7-8.5		10			
			A-3	Firm, moist to wet, brown poorly-graded SAND		9.5-11		12			
						12-13.5		12			
						14.5-16		17			

Boring terminated at 16.0 feet

 <small>3510 Overland Avenue • Tuscaloosa, Alabama 35401 256.543.2816 • Fax: 256.543.2807</small>	Neel Schaffer, Inc. 10th Avenue Improvements Tuscaloosa County
	APPROVED: Harvey F. Upchurch, Jr., P.E. GEOTECHNICAL ENGINEER DATE: 03/08/2016