

**ADDENDUM No. 2**  
**UNC CHARLOTTE CAMPUS CIRCULATION IMPROVEMENTS**  
**THE UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE**  
**CHARLOTTE, NORTH CAROLINA**  
**SCO PROJECT ID #: 16-14055**  
**CODE 41526; ITEM 310**  
**MARCH 28, 2017**

**ADDENDUM NO. 2**

This Addendum, issued prior to receipt of bids, shall and does hereby become part of the Contract Documents for the referenced Project. All Prime Contractors shall be responsible for ensuring that their Subcontractors are properly apprised of the contents of this Addendum. All information contained in this Addendum shall take precedence over any conflicting information in the original Drawings and Specifications, dated March 8, 2017.

**RESPONSE TO QUESTIONS**

1. *Detail 9/C800 shows a paver used on the steps. It was our understanding from previous work at UNCC that Pine Hall has an ADA Step Tread to meet ADA Standards. Is this what you want us to use?*

Response

The brick stair tread will need to meet ADA requirements. The Pine Hall step tread or similar product may be used.

2. *Alternate #1 has us installing pavers down to Lot 11. It is my understanding that beyond Lot 11, the brick paver sidewalk is under another contract. Do we stop at the end of Lot 11?*

Response

Follow the construction limits shown on the drawings.

3. *Note 5. of the Demolition Notes requires 8' Chain Link around all demolition. While this seems to be reasonable for the Base Bid and Alternate #2, does this apply to Alternate #1 and 4?*

Response

All construction areas shall be secured to prevent inadvertent entry by non-construction personnel. Orange safety fencing may be used in locations where temporary chain link fencing is impractical, but at a minimum, all construction laydown areas shall be fenced with temporary chain link fencing. All work areas shall be secured during non-work hours.

4. *Would the Owner consider an additional 45 days for Alternate #1 & 2? (Not including long lead items)?*

Response

All work to be completed under Owner's \$800K construction budget shall be completed within the specified 90 calendar days, including any Alternates selected within this budget. A contract extension may be granted for completion of additional Alternates if additional funding becomes available and such additional Alternates are selected by Owner.

UNC Charlotte Campus Circulation Improvements

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Page 2

5. *There is a considerable list of long lead items: precast, blue lights, lights poles, signage poles, Identification sign and galvanized handrail. How will the Owner handle time extension for these items?*

Response

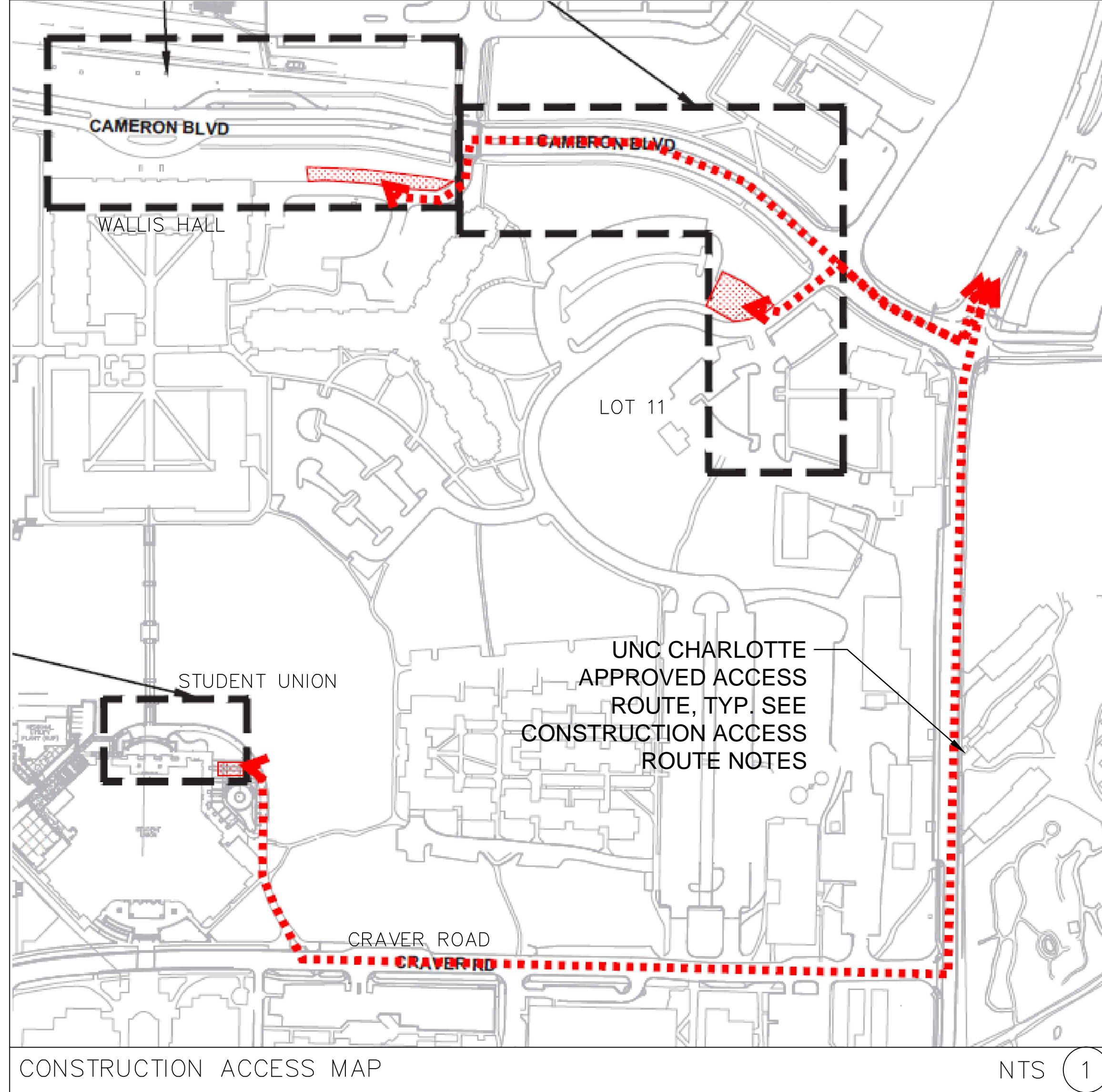
Refer to Response #4 above. Reasonable requests for contract time extensions may be considered on a case-specific basis in accordance with the contract provisions for time extensions.

**DRAWINGS**

1. Update existing tree and utility survey (background change).

**ATTACHMENTS**

1. Drawing Sheets:
  - a. C-100, revised March 28, 2017.
  - b. C-101, revised March 28, 2017.
  - c. C-103, revised March 28, 2017.
  - d. C-400, revised March 28, 2017.
  - e. C-401, revised March 28, 2017.
  - f. C-403, revised March 28, 2017.



**CONSTRUCTION ACCESS ROUTES**

**WALLIS HALL:**  
CONTRACTOR SHALL ONLY USE THE FOLLOWING ACCESS ROUTE:  
MALLARD CREEK CHURCH RD., MARY ALEXANDER RD., CAMERON BLVD., POPULAR LANE (DO NOT BLOCK POPULAR LANE).

**CAMERON BLVD./LOT 11 - ALTERNATE #1:**  
CONTRACTOR SHALL ONLY USE THE FOLLOWING ACCESS ROUTE:  
MALLARD CREEK CHURCH RD., MARY ALEXANDER RD., CAMERON BLVD., POPULAR TERRACE DR., LOT 21 ENTRANCE DRIVE.

**STUDENT UNION - ALTERNATE #2:**  
CONTRACTOR SHALL ONLY USE THE FOLLOWING ACCESS ROUTE:  
MALLARD CREEK CHURCH RD., MARY ALEXANDER RD., CRAVER RD., FIRE ACCESS LANE TO STUDENT UNION (MUST REMAIN OPEN AT ALL TIMES).

\*ANY DEVIATION MUST BE APPROVED BY UNCC BY CONSTRUCTION MANAGER

**ADD ALTERNATE #4 - ADD BUS DROP-OFF AND WIDEN SIDEWALK AT MAIN STATION**

WORK TO INCLUDE ADDING HEAVY-DUTY CONCRETE PAVING, WIDENING EXISTING BRICK WALK TO 8', ADDING ADDITIONAL CURB AND GUTTER, REMOVAL OF TREES, PLANTING NEW TREES, NEW EMERGENCY BLUE LIGHT AND ADDITIONAL PEDESTRIAN LIGHT RELOCATIONS.

**ADD ALTERNATE #5 - ADD SIGNALIZED INTERSECTION AT THE MAIN STATION**

WORK TO INCLUDE ADDING THE SIX (6) PEDESTRIAN AND TRAFFIC SIGNAL POLES, BASES, ELECTRICAL BOXES AND PANELS, WIRING AND SIGNAL HEADS. THE CONDUIT FOR THE WIRING (INCLUDING THE CAPS FOR THE CONDUIT AND PULL STRINGS) WILL BE INCLUDED IN THE BASE BID.

**ADD ALTERNATE #6A - LANDSCAPE AT MAIN STATION**

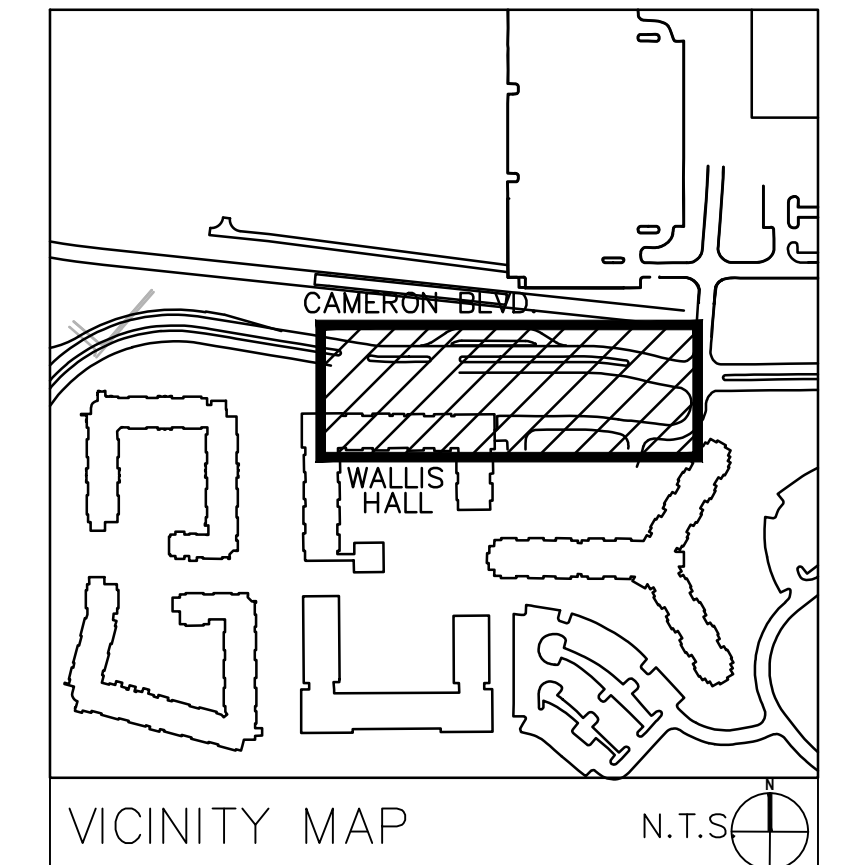
WORK TO INCLUDE INSTALLATION OF PROPOSED PLANT MATERIAL (PLANTS AND SOO) TO BE LOCATED IN EXISTING AND PROPOSED PLANTING BEDS IN FRONT OF WALLIS HALL. ADDITIONALLY, TWO (2) STREET TREES ARE TO BE INSTALLED ALONG CAMERON BLVD., IN FRONT OF WALLIS HALL.

**ADD ALTERNATE #6B - LANDSCAPE AT MAIN STATION**

WORK TO INCLUDE INSTALLATION OF PROPOSED PLANT MATERIAL (PLANTS AND SOO) TO BE LOCATED IN EXISTING AND PROPOSED PLANTING BEDS IN FRONT OF WALLIS HALL. ADDITIONALLY, SOO FOR ALL DISTURBED AREAS AS PART OF ALTERNATE #4, THREE (3) STREET TREES, AND FIVE (5) EVERGREEN TREES ARE TO BE INSTALLED ALONG CAMERON BLVD., IN FRONT OF WALLIS HALL.

**DEMOLITION NOTES**

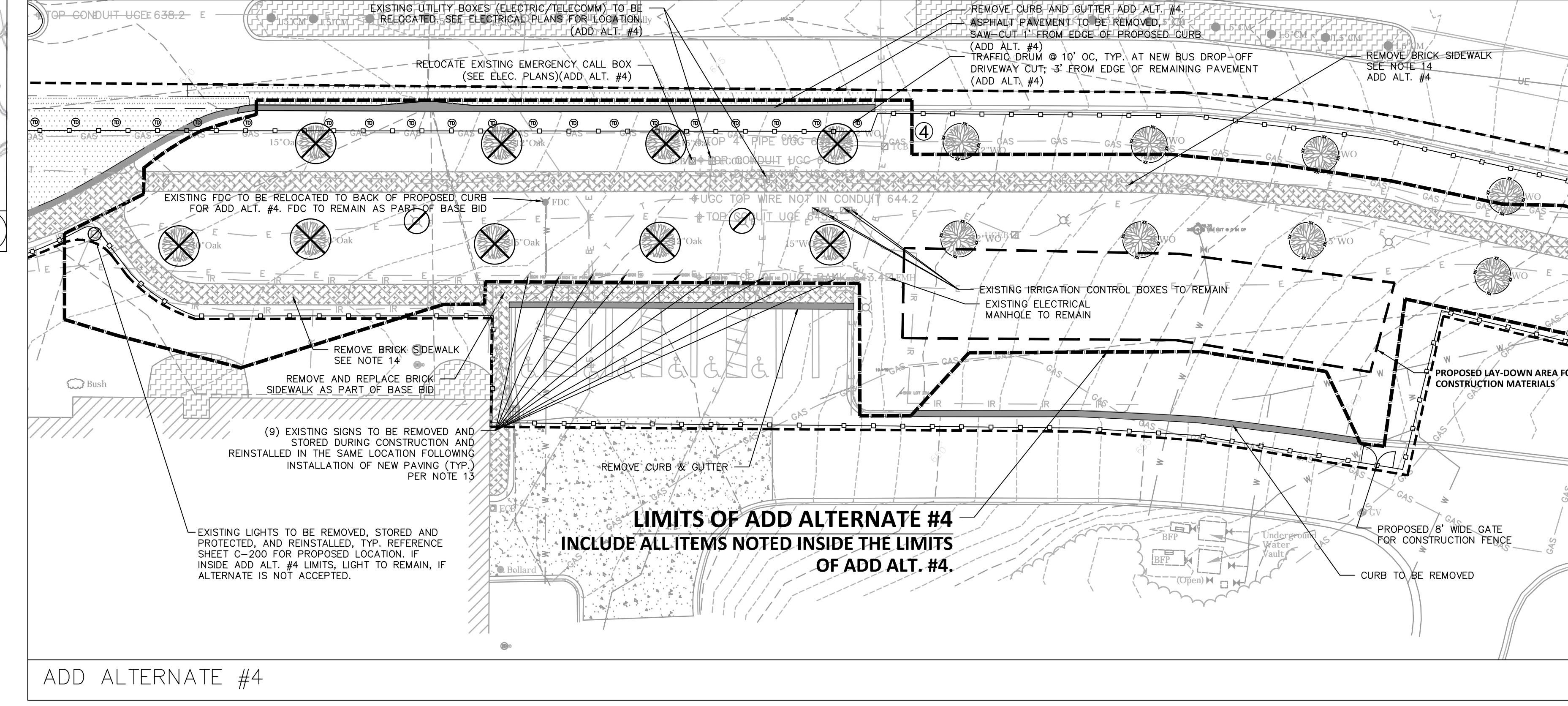
- CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION AND SEQUENCING OF DEMOLITION AS DESCRIBED BY THESE DOCUMENTS AND SPECIFICATIONS. CONTRACTOR IS TO OBTAIN ALL PERMITS.
- THE CONTRACTOR SHALL VERIFY THE EXISTENCE, LOCATION, AND DEPTH OF ALL BURIED UTILITIES (ELECTRICAL, MECHANICAL, WATER, SEWER, TELECOMMUNICATION, GAS, ETC.) WITHIN THE CONSTRUCTION AREA PRIOR TO ANY EXCAVATION. UTILITIES ARE ILLUSTRATED FOR INFORMATION PURPOSES ONLY. THE OMISSION OF, OR INCLUSION OF, UTILITY LOCATIONS ON THE PLANS IS NOT TO BE CONSIDERED AS THE NON-EXISTENCE OR DEFINITE LOCATION OF EXISTING UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY AND MEET WITH ALL UTILITY OWNERS WHOSE FACILITIES WILL BE AFFECTED TO DETERMINE UTILITY LOCATIONS. THE CONTRACTOR SHALL PROTECT ALL UTILITIES FROM DAMAGE CAUSED BY HIS OPERATIONS OR THOSE OF HIS AGENTS. ANY DAMAGE TO EXISTING UNDERGROUND UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ANY REQUIRED UTILITY DEMOLITION OR RELOCATION WITH THE APPLICABLE UTILITY OWNER. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH THE RESPECTIVE UTILITY OWNER'S SCHEDULE.
- ALL MATERIAL GENERATED BY THE DEMOLITION WILL BE HAULED FROM THE SITE AND DISPOSED OF PER LOCAL ORDINANCES.
- INSTALL 8' CHAIN LINK FENCE AROUND PERIMETER OF PROJECT AREA DURING DEMOLITION AND CONSTRUCTION.
- ALL EXISTING ASPHALT PAVEMENT SHALL BE SAW-CUT AT THE LIMIT OF DEMOLITION WHERE CONSTRUCTION PLANS SHOW TIE-INS. SAW-CUT JOINT SHALL BE ONE FOOT FROM THE EXISTING EDGE OF PAVEMENT, MINIMUM.
- ALL EXISTING CONCRETE PAVEMENT, SIDEWALK AND/OR CURB AND GUTTER SHALL BE REMOVED TO THE NEAREST EXISTING CONTROL JOINT BEYOND THE LIMIT OF DEMOLITION SHOWN ON THE PLAN. WHERE NO EXISTING CONTROL JOINTS ARE PRESENT WITHIN FIVE FEET OF THE LIMIT OF DEMOLITION, CONCRETE PAVEMENTS SHALL BE SAW-CUT.
- ADA COMPLIANT PEDESTRIAN ACCESS TO WALLIS HALL AND THE STUDENT UNION, AND ONE LANE OF CAMERON BLVD. SHALL REMAIN OPEN AND UNOBSTRUCTED TO TRAFFIC AT ALL TIMES.
- CONTRACTOR IS RESPONSIBLE FOR TRAFFIC CONTROL DURING CONSTRUCTION PER WORK AREA TRAFFIC CONTROL HANDBOOK STANDARDS. (W.A.T.C.H.)
- DEMOLITION OF STORM DRAINAGE AND SANITARY SEWER SYSTEM(S) BY CONTRACTOR SHALL ALLOW FOR CONTINUOUS USE OF THE SYSTEM(S).
- CONTRACTOR SHALL REPAIR OR REPLACE ANY ADJACENT CONCRETE CURBING AND/OR SIDEWALK DAMAGED AS PART OF DEMOLITION PROCESS.
- FOR THE RENOVATION OR DEMOLITION OF BUILDINGS OR OTHER STRUCTURES, FEDERAL AND/OR LOCAL REGULATIONS REQUIRE THAT A THOROUGH INSPECTION BE CONDUCTED FOR ASBESTOS-CONTAINING MATERIALS. PRIOR TO CONDUCTING A RENOVATION OR DEMOLITION ACTIVITY, THE ASBESTOS INSPECTION MUST BE CONDUCTED BY A NORTH CAROLINA ACCREDITED ASBESTOS INSPECTOR. ALL REGULATED AND/OR FRIABLE ASBESTOS-CONTAINING MATERIALS IDENTIFIED DURING THE SURVEY, WHICH WILL BE DISTURBED, MUST BE PROPERLY REMOVED BY ACCREDITED INDIVIDUALS BEFORE BEGINNING THE RENOVATION OR DEMOLITION ACTIVITY.
- REMOVAL, STORAGE, AND REINSTALLMENT OF EXISTING SIGNS FOR PARKING SHALL BE COORDINATED WITH CONSTRUCTION MANAGER.
- BRICK PAVERS TO BE REMOVED SHALL BE SAVED AND STACKED NEATLY TO THE SIDE FOR REINSTALLATION. WHEN REINSTALLED, SALVAGED PAVERS SHALL BE MIXED INTERMITTENTLY WITH NEW BRICK PAVERS FOR INCREASED SIDEWALK, RAMP AND STAIR WIDTHS. CONTRACTOR SHALL CONFIRM EACH EXISTING PAVEMENT TYPE AND ENSURE THAT SIMILAR PAVERS (VEHICULAR AND PEDESTRIAN) ARE STORED TOGETHER AND LABELED FOR EASE OF IDENTIFICATION. PAVERS SHALL BE REINSTALLED IN THE CORRECT APPLICATION (VEHICULAR FOR VEHICULAR AREAS, PEDESTRIAN FOR PEDESTRIAN PAVERS) FOLLOWING DEMOLITION AND GRADING PHASES OF WORK.
- CONTRACTOR SHALL COORDINATE ALL UTILITY LOCATES WITH THE UNC CHARLOTTE CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.
- PROVIDE 48" SAFETY FENCE AROUND PEDESTRIAN AREAS (SEE SUPPLEMENTARY GENERAL CONDITIONS 2-01A)
- PRIOR TO CONSTRUCTION OR TREE REMOVAL, THE CONTRACTOR SHALL COORDINATE WITH THE UNC CHARLOTTE CONSTRUCTION MANAGER TO DETERMINE WHICH EXISTING TREES SHALL BE TRANSPORTED BY OWNER. ALL REMAINING TREES NOTED TO BE REMOVED WILL BE REMOVED.
- FOR NEW TREE PLANTING AREAS, CONTRACTOR SHALL REMOVE ALL PAVEMENT, GRAVEL, SUB-BASE AND CONSTRUCTION DEBRIS, REMOVE COMPACTED SOIL AND ADD 24" NEW TOPSOIL, OR AMEND THE TOP 24" OF EXISTING SOIL, TO MEET SPECIFIED TOPSOIL/PLANTING STANDARDS FOR TREES, INCLUDE IN BASE BID



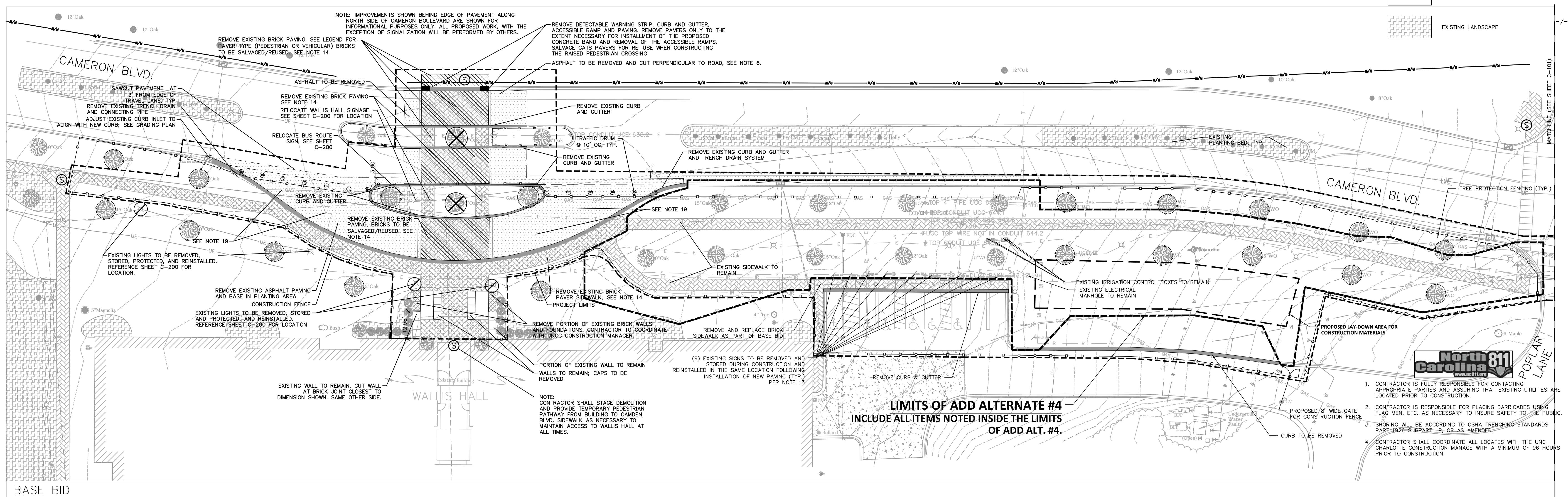
**SURVEY DISCLAIMER**  
TOPOGRAPHIC SURVEY ISSUE DATE NOVEMBER 7, 2016.  
PROVIDED BY ALLEN GEOMATICS, P.C., PO BOX 89 ADVANCE, NC, 27006 336-998-0218

**LEGEND**

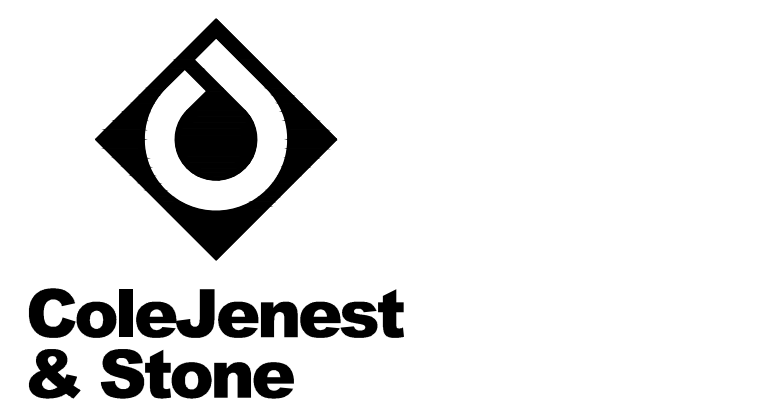
	ASPHALT TO BE REMOVED	-/-
	PEDESTRIAN PAVERS TO BE REMOVED SEE NOTE 14	-/-
	VEHICULAR PAVERS TO BE REMOVED	-/-
	CURB TO BE REMOVED	-/-
	VEGETATION TO BE REMOVED	-/-
	TREE TO BE REMOVED (SEE NOTE 18)	-/-
	EXISTING TREE (APPROXIMATE LOCATION)	-/-
	EXISTING PEDESTRIAN LIGHT POLE	-/-
	LIGHT FIXTURE TO BE RELOCATED	-/-
	TREE PROTECTION FENCING	18/C-101
	PROJECT LIMIT	-/-
	CONSTRUCTION FENCE	-/-
	SIDEWALK CLOSED SIGN	-/-
	TRAFFIC DRUM	-/-
	ADD ALTERNATE LIMITS	-/-
	EXISTING LANDSCAPE	-/-



ADD ALTERNATE #4



BASE BID



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p: 704.376.1555 f: 704.376.7851  
url: www.colejeneststone.com

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**CAMPUS CIRCULATION IMPROVEMENTS**

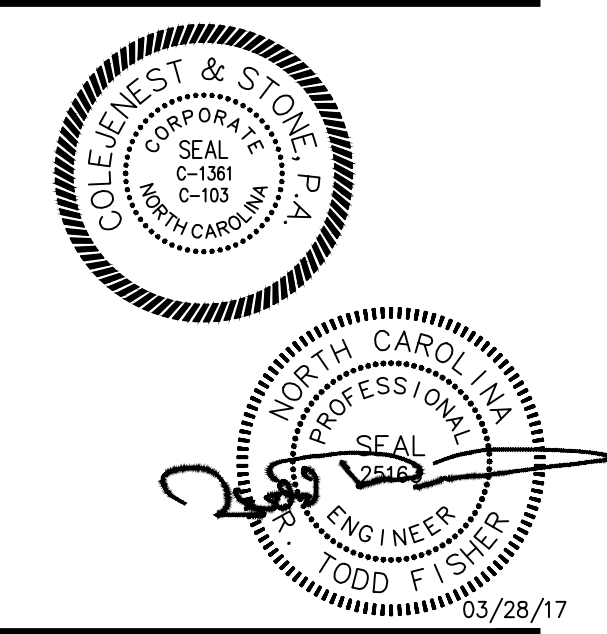
SCO ID# 16-14055  
CODE 41526 ITEM 310

**MAIN STATION - DEMOLITION PLAN**

Project No.  
4496

Issued  
03/08/2017 - BID SET

Revised  
3/17/17 - ADDENDUM #1  
3/28/17 - ADDENDUM #2

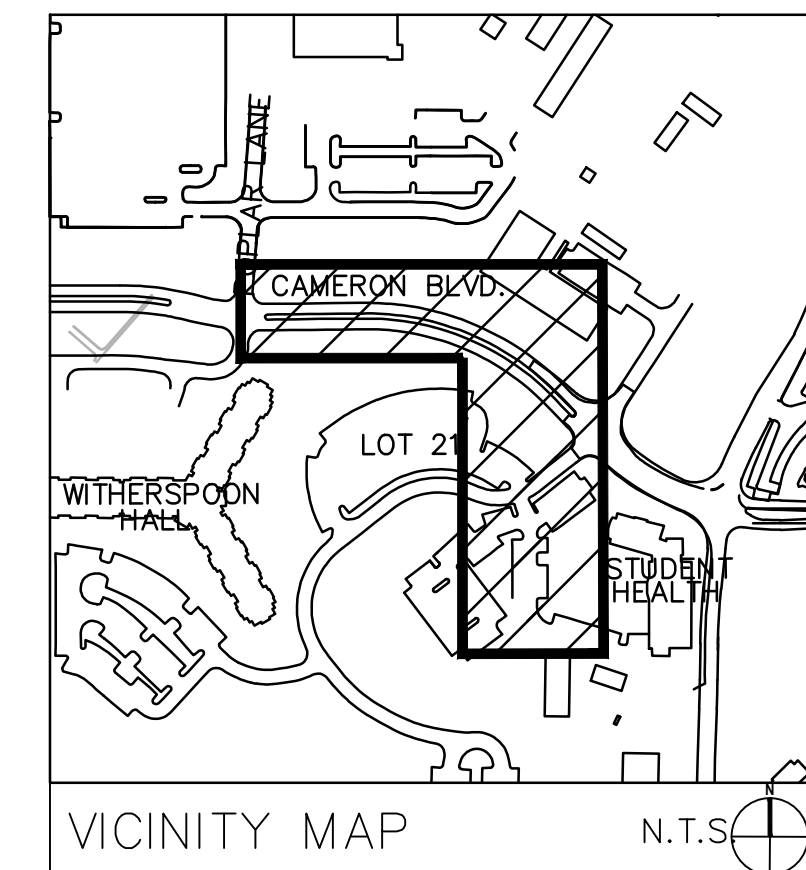
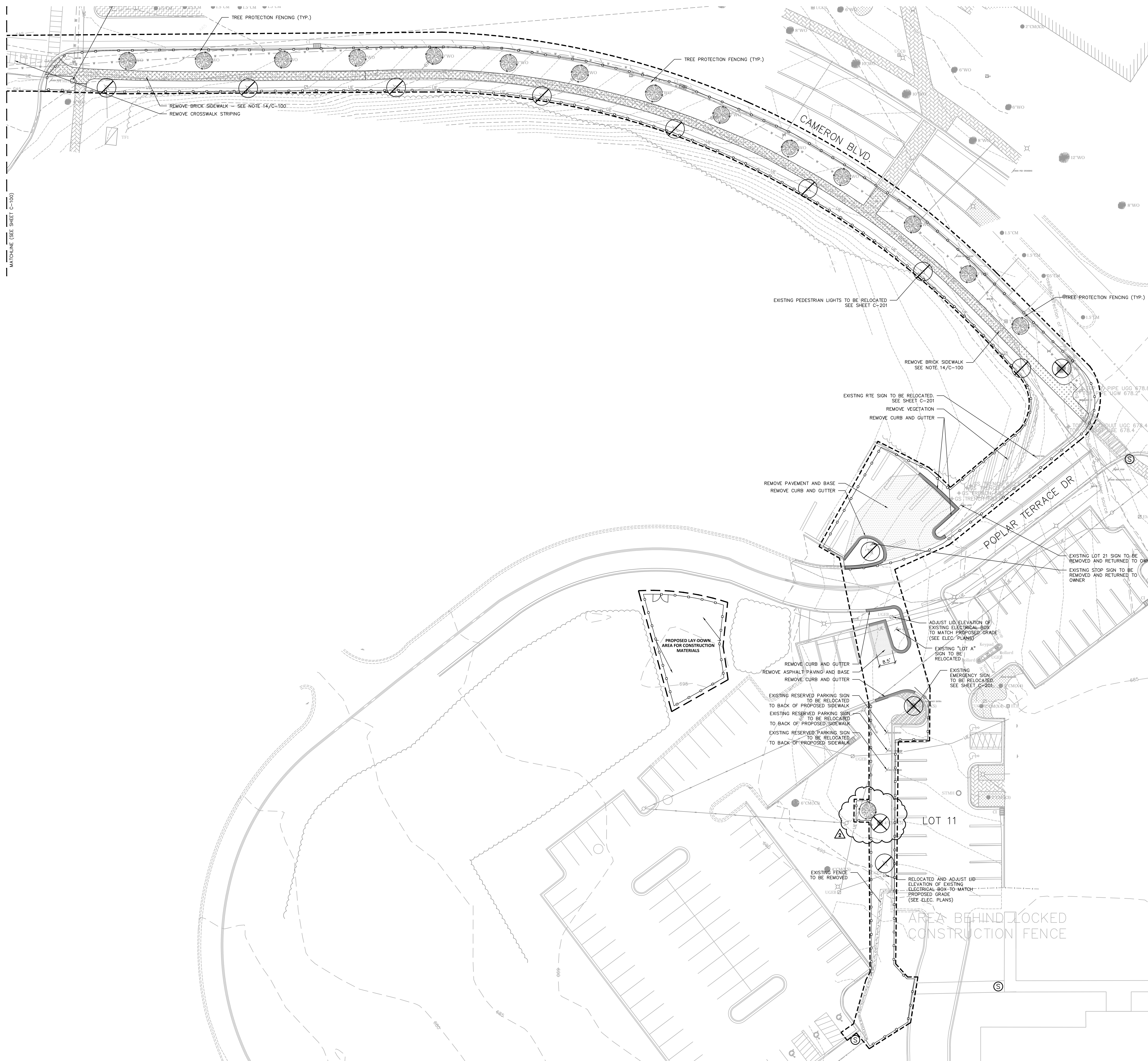


SCALE: 1"=20'  
0 10 20 40

**C-100**  
(BASE BID / ALT #4)

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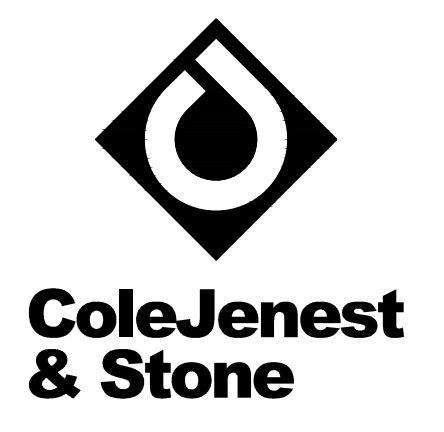


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 NC, 27006 336-998-0218

**LEGEND**

SYMBOL	DESCRIPTION	SCALE
[Pattern]	ASPHALT TO BE REMOVED	-/-
[Pattern]	PAVERS TO BE REMOVED	-/-
[Pattern]	CURB TO BE REMOVED	-/-
[Pattern]	VEGETATION TO BE REMOVED	-/-
[Symbol]	TREE TO BE REMOVED	-/-
[Symbol]	LIGHT FIXTURE TO BE RELOCATED	-/-
[Symbol]	TREE PROTECTION FENCING	18/C-801
[Symbol]	PROJECT LIMIT	-/-
[Symbol]	CONSTRUCTION FENCE	-/-
[Symbol]	SIDEWALK CLOSED SIGN	-/-
[Symbol]	EXISTING LANDSCAPE	-/-

SEE SHEET C-100 FOR DEMOLITION NOTES



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**CAMPUS CIRCULATION IMPROVEMENTS**

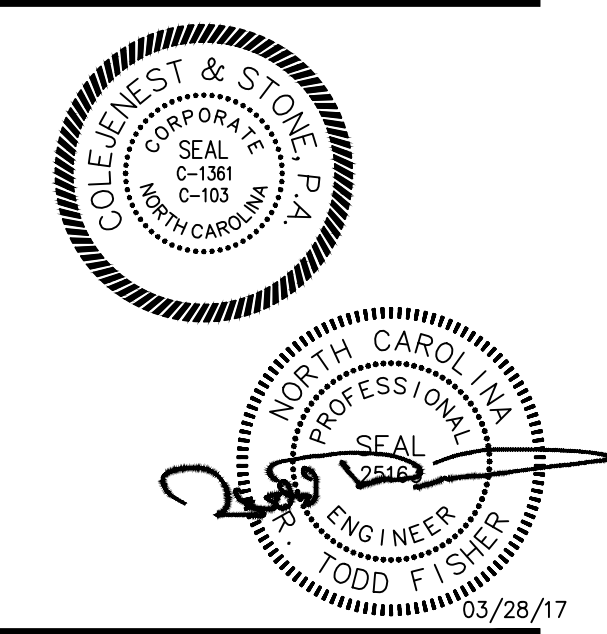
SCO ID# 16-14055  
 CODE 41526 ITEM 310

**CAMERON BLVD DEMOLITION PLAN**

Project No.  
 4496

Issued  
 03/08/2017 - BID SET

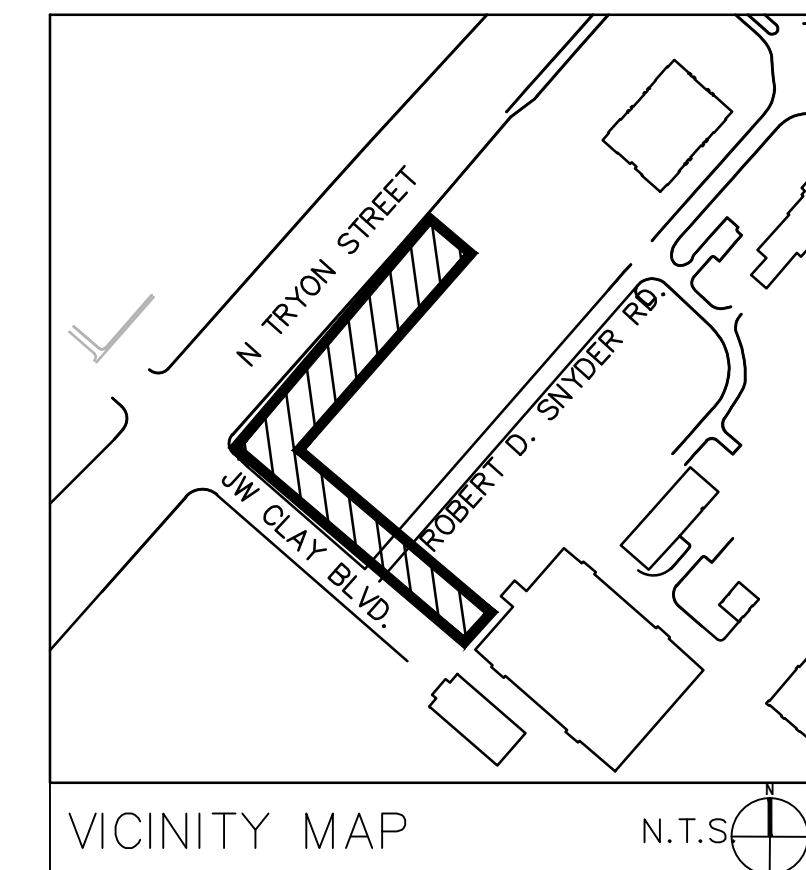
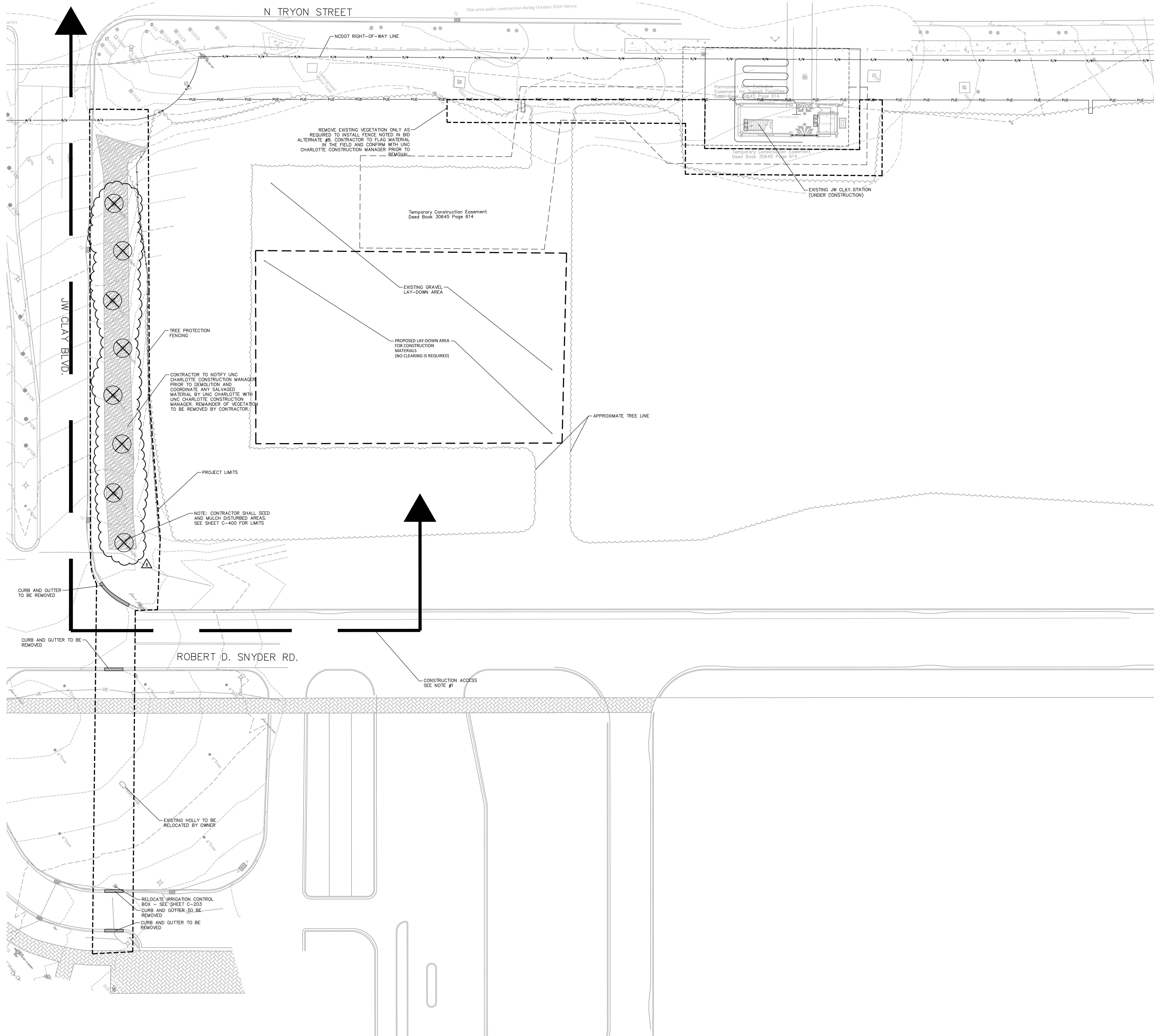
Revised  
 3/17/17 - ADDENDUM #1  
 3/28/17 - ADDENDUM #2



**C-101 (ADD ALTERNATE #1)**

- CONTRACTOR IS FULLY RESPONSIBLE FOR CONTACTING APPROPRIATE PARTIES AND ASSURING THAT EXISTING UTILITIES ARE LOCATED PRIOR TO CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR PLACING BARRICADES USING FLAG MEN, ETC. AS NECESSARY TO INSURE SAFETY TO THE PUBLIC.
- SHORING WILL BE ACCORDING TO OSHA TRENCHING STANDARDS PART 1926 SUBPART P, OR AS AMENDED.
- CONTRACTOR SHALL COORDINATE ALL LOCATES WITH THE UNC CHARLOTTE CONSTRUCTION MANAGE WITH A MINIMUM OF 96 HOURS PRIOR TO CONSTRUCTION.

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**LEGEND**

SYMBOL	DESCRIPTION	SCALE
[Symbol: Dotted pattern]	PAVERS TO BE REMOVED	-/-
[Symbol: Solid grey bar]	CURB TO BE REMOVED	-/-
[Symbol: Diagonal hatching]	VEGETATION TO BE REMOVED	-/-
[Symbol: Circle with X]	TREE PROTECTION FENCING	18/C-801
[Symbol: Dashed line]	PROJECT LIMIT	-/-
[Symbol: Solid line with square]	CONSTRUCTION FENCE	-/-
[Symbol: Circle with S]	SIDEWALK CLOSED SIGN	-/-
[Symbol: Stippled pattern]	EXISTING LANDSCAPE	-/-

**NOTES:**  
 1. CONTRACTOR SHALL ONLY USE THE FOLLOWING ACCESS ROUTE: N. TRYON ST., ROBERT D. SNYDER, EXISTING GRAVEL ROAD TO LAY DOWN/STORAGE AREA.

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**CAMPUS CIRCULATION IMPROVEMENTS**

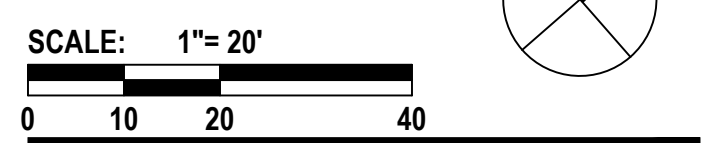
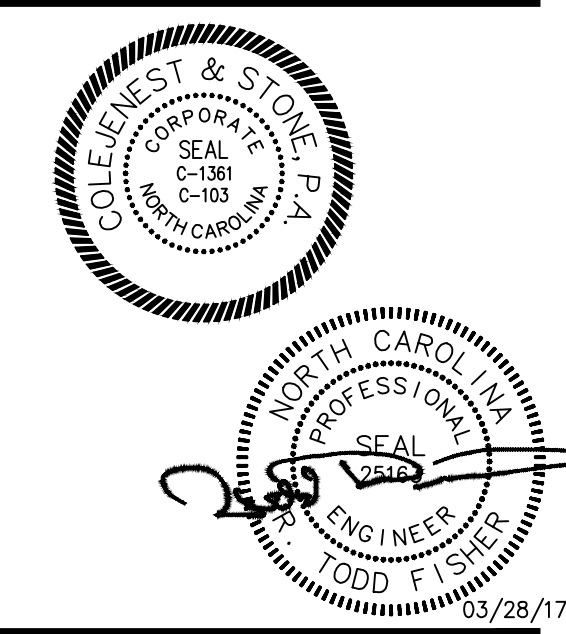
SCO ID# 16-14055  
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**J.W. CLAY STATION DEMOLITION PLAN**

Project No.  
**4496**

Issued  
 03/08/2017 - BID SET

Revised  
 3/28/17 - ADDENDUM #2

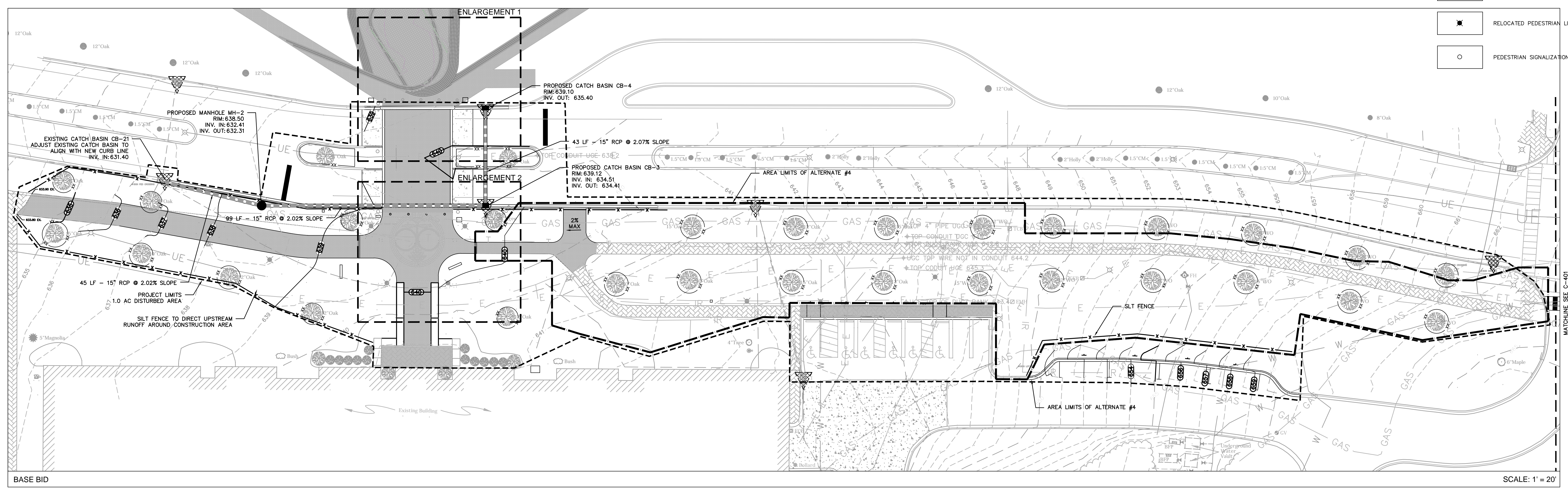
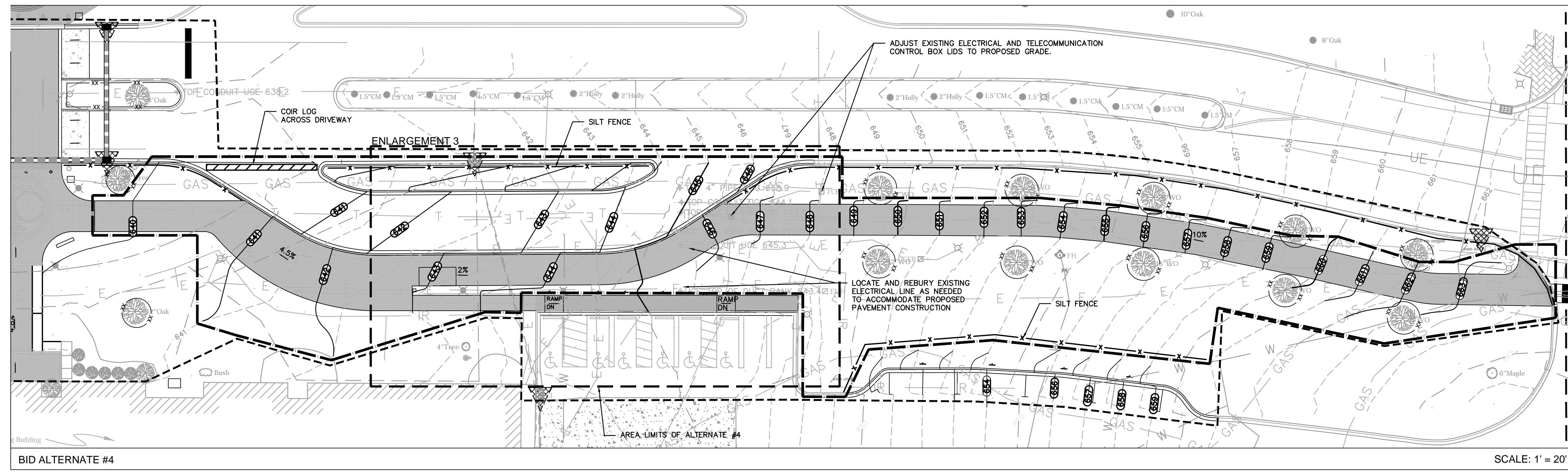
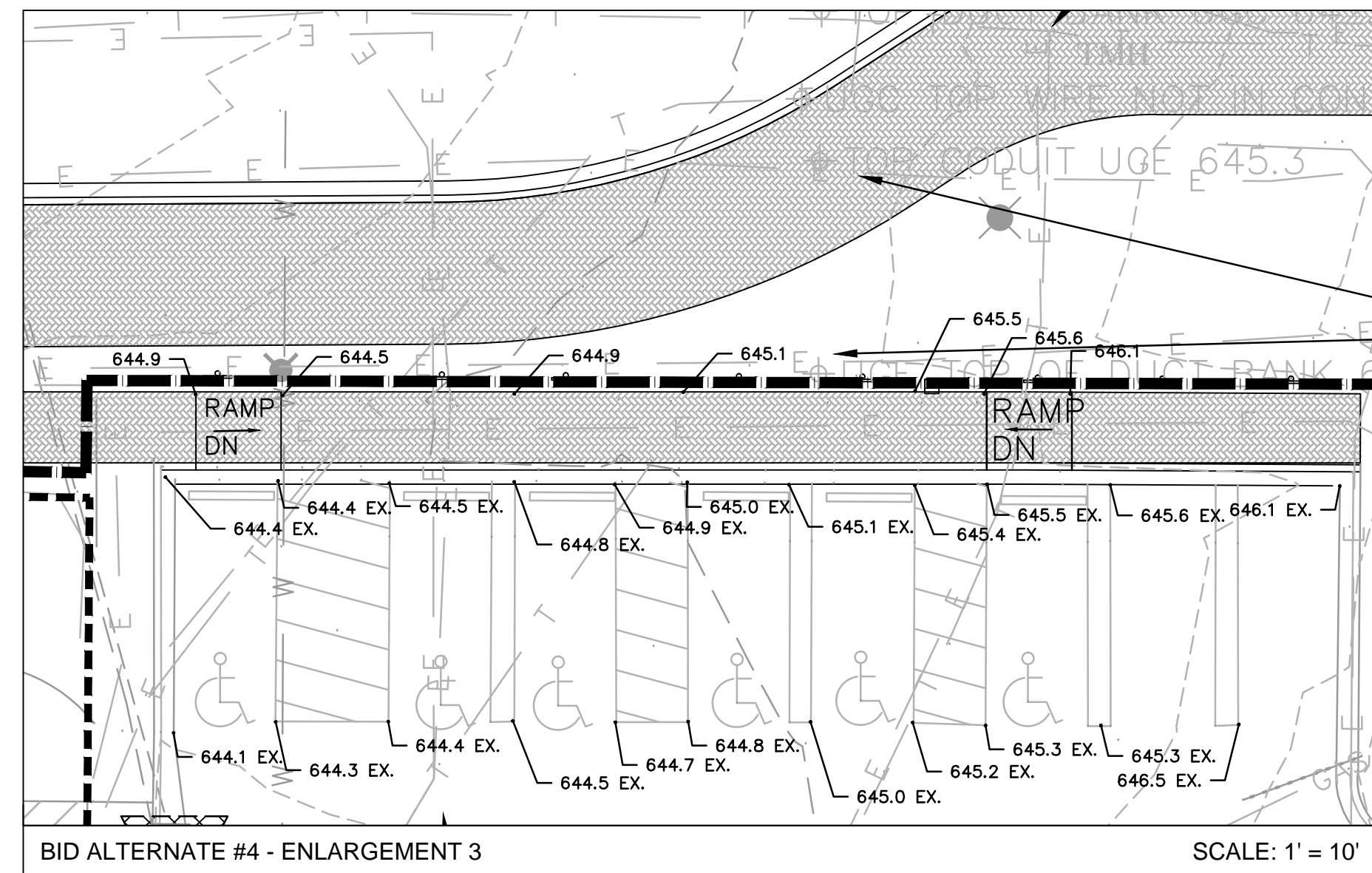
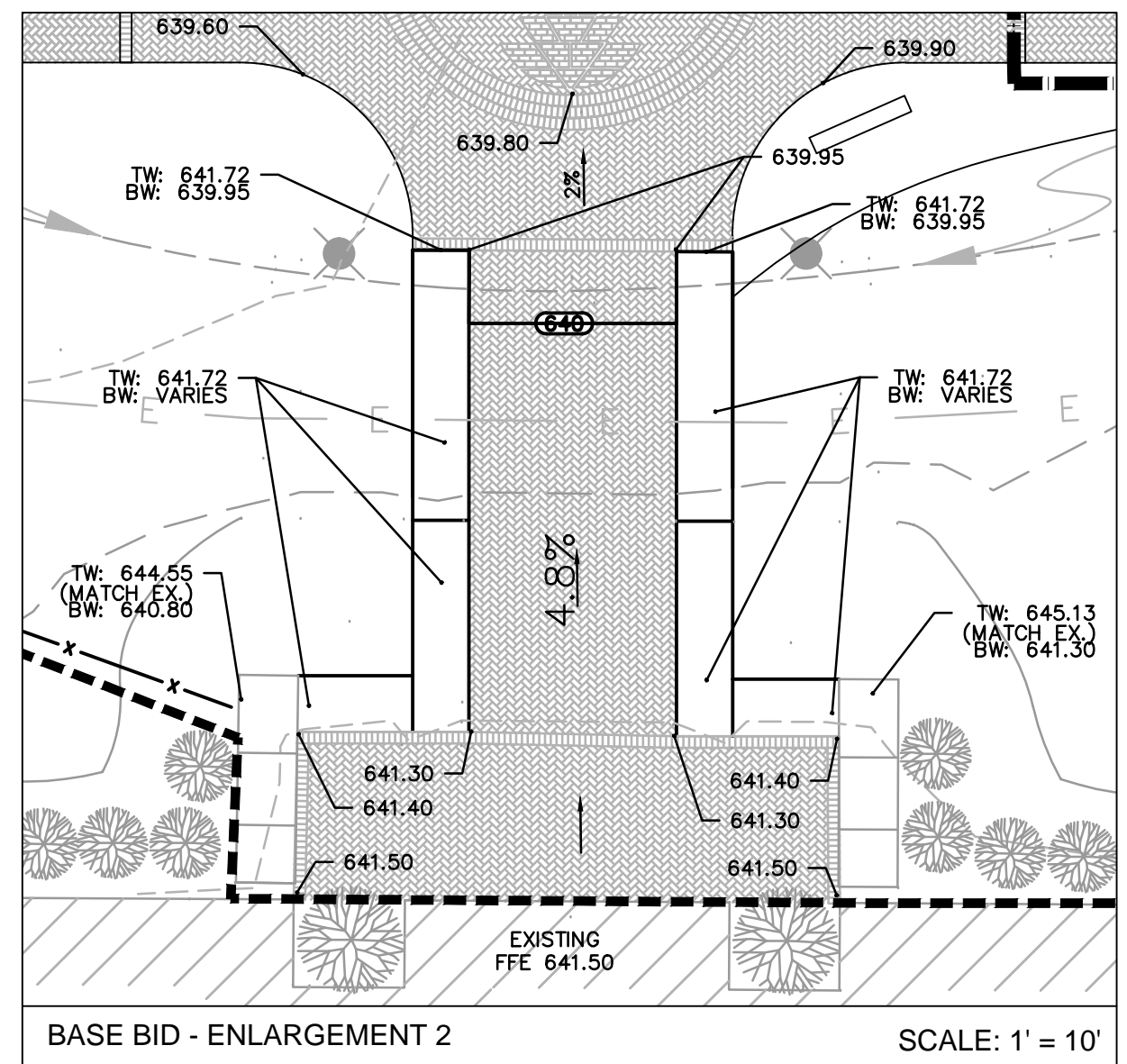
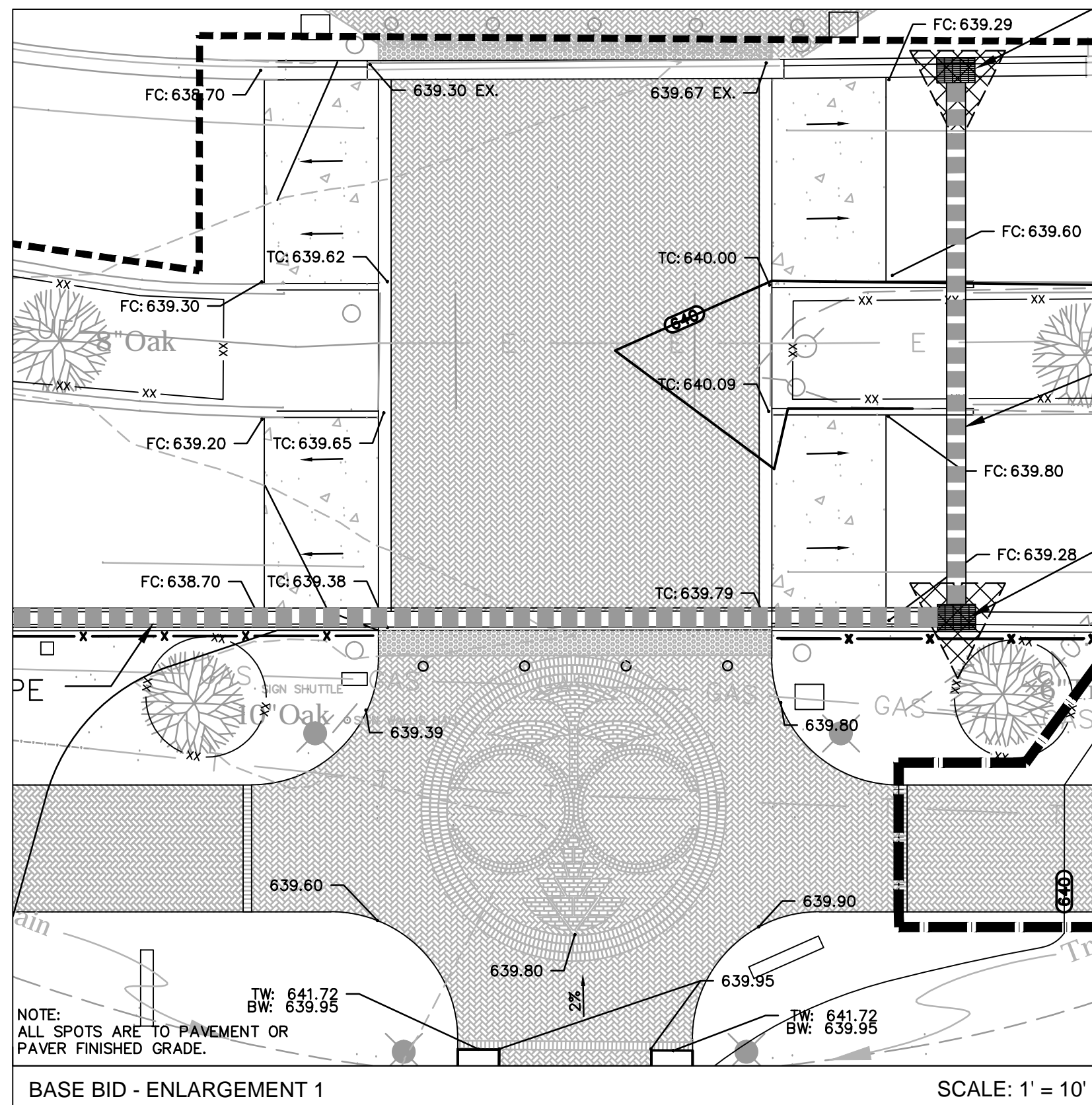


**C-103**  
 (BASE BID/ADD ALT. #7,8)

- CONTRACTOR IS FULLY RESPONSIBLE FOR CONTACTING APPROPRIATE PARTIES AND ASSURING THAT EXISTING UTILITIES ARE LOCATED PRIOR TO CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR PLACING BARRICADES USING FLAG MEN, ETC. AS NECESSARY TO INSURE SAFETY TO THE PUBLIC.
- SHORING WILL BE ACCORDING TO OSHA TRENCHING STANDARDS PART 1926 SUBPART P, OR AS AMENDED.
- CONTRACTOR SHALL COORDINATE ALL LOCATES WITH THE UNC CHARLOTTE CONSTRUCTION MANAGER WITH A MINIMUM OF 96 HOURS PRIOR TO CONSTRUCTION.

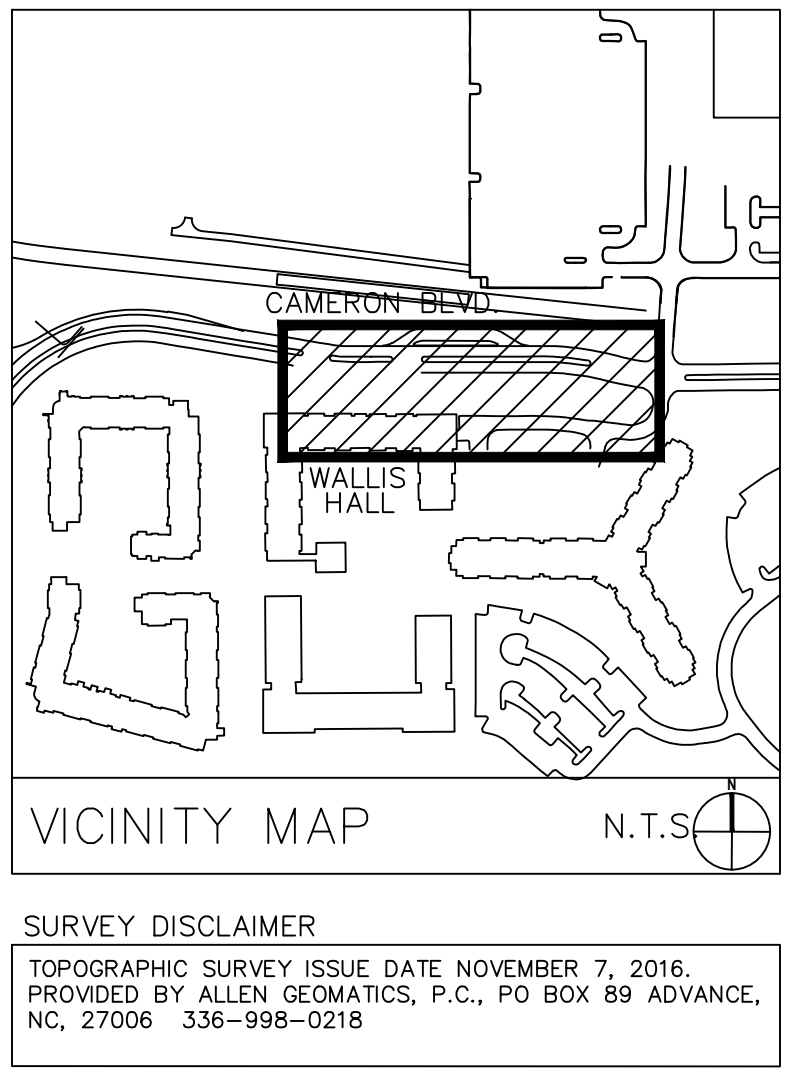
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**GRADING AND EARTHWORK NOTES**

- REFER TO THE UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE DESIGN AND CONSTRUCTION MANUAL, DIVISION 31 FOR ALL EARTHWORK CONSTRUCTION GUIDELINES.
- ON-SITE BURIAL PITS REQUIRE A PERMIT.
- ANY GRADING BEYOND THE DENUDED LINES INDICATED ON THE CONSTRUCTION DOCUMENTS IS A VIOLATION OF EROSION CONTROL ORDINANCES AND IS SUBJECT TO A FINE.
- GRADING MORE THAN ONE ACRE WITHOUT AN APPROVED EROSION CONTROL PLAN IS A VIOLATION OF EROSION CONTROL ORDINANCES AND IS SUBJECT TO A FINE.
- APPROVAL OF THIS PLAN IS NOT AN AUTHORIZATION TO GRADE ON ADJACENT PROPERTIES. WHEN FIELD CONDITIONS WARRANT OFF-SITE GRADING, PERMISSION MUST BE OBTAINED FROM THE AFFECTED PROPERTY OWNER(S).
- THE CONTRACTOR SHALL IMMEDIATELY REPORT TO OWNER ANY DISCREPANCIES FOUND BETWEEN ACTUAL FIELD CONDITIONS AND CONSTRUCTION DOCUMENTS AND SHALL WAIT FOR INSTRUCTION PRIOR TO PROCEEDING.
- CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES IN THE FIELD PRIOR TO BEGINNING CONSTRUCTION.
- LIMITS OF CLEARING SHOWN ON GRADING PLAN ARE BASED UPON THE APPROXIMATE CUT AND FILL SLOPE LIMITS, OR OTHER GRADING REQUIREMENTS.
- ALL ELEVATIONS ARE IN REFERENCE TO THE SITE BENCHMARK. CONTRACTOR SHALL VERIFY THE BENCHMARK PRIOR TO GROUND BREAKING.
- THE PROPOSED CONTOURS AND SPOT ELEVATIONS SHOWN WITHIN ROADWAYS, PARKING LOTS, AND SIDEWALK AREAS REFLECT FINISHED ELEVATIONS INCLUDING PAVEMENT. REFER TO PAVEMENT CROSS SECTION DATA TO ESTABLISH CORRECT SUBBASE OR ADEQUATE BASE COURSE ELEVATIONS TO BE COMPLETED UNDER THIS CONTRACT.
- GRADES SHALL BE ESTABLISHED TO PROVIDE A SMOOTH SURFACE, FREE FROM IRREGULAR SURFACE CHANGES. GRADING SHALL COMPLY WITH COMPACTOR REQUIREMENTS AND GRADE CROSS SECTIONS, LINES, AND ELEVATIONS INDICATED. WHERE NO SPOT GRADES ARE INDICATED, THE GRADE SHALL BE ESTABLISHED BASED ON INTERPOLATION OF THE ELEVATIONS BETWEEN ADJACENT SPOT GRADES WHILE MAINTAINING APPROPRIATE TRANSITION AT STRUCTURES AND PAVING, AND UNINTERRUPTED DRAINAGE FLOW INTO INLETS.
- CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE SUCH THAT RUNOFF WILL DRAIN BY GRAVITY FLOW ACROSS NEW GRADED AREAS TO NEW OR EXISTING DRAINAGE INLETS, OR SHEET OVERLAND.
- ALL SIDEWALKS, STAIRS, TERRACES AND OTHER PAVED AREAS SHALL SLOPE AWAY FROM BUILDING(S) AT 2.0% MAXIMUM.
- COLEJENEST AND STONE, P.A. HAS NOT PERFORMED ANY GEOTECHNICAL EVALUATIONS OF THE SUBJECT PROPERTY AND HAS NOT MADE ANY DETERMINATIONS AS TO THE SUITABILITY OF SOILS PLANNED FOR THESE SLOPES AND FOLLOW RECOMMENDATIONS SET FORTH BY THE GEOTECHNICAL ENGINEER FOR SLOPE CONSTRUCTION. ALL SUCH SLOPES SHALL BE TRACKED TOP TO BOTTOM AND STABILIZED WITH A ROLLED EROSION CONTROL BLANKET CONSISTING OF POLYPROPYLENE NETTING AND A STRAW/COCONUT FIBER MATRIX, STAKED TO MANUFACTURER'S RECOMMENDATIONS. TOP SOIL PLACEMENT ON SLOPES SHALL BE INSTALLED IN A BENCHED PATTERN.
- ALL PROJECT SUBGRADE SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER. IF THE GEOTECHNICAL ENGINEER DETERMINES THAT UNSATISFACTORY SOIL IS PRESENT, THE UNSATISFACTORY MATERIAL SHALL BE REMOVED AND REPLACED WITH COMPACTED BACKFILL. SUCH ADDITIONAL AUTHORIZED EXCAVATION SHALL BE PAID FOR ACCORDING TO THE CONTRACT PROVISIONS FOR UNIT PRICES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL FILL AND BACKFILL MATERIAL WITHIN 3 PERCENT OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D 698. SOIL MATERIAL THAT EXCEEDS THE OPTIMUM MOISTURE CONTENT BY 3 PERCENT OR MORE, AND IS TOO MET TO COMPACT TO THE SPECIFIED DRY UNIT WEIGHT, SHALL BE SCARIFIED AND AIR DRIED, LIME STABILIZED, OR REMOVED AND REPLACED.
- CONTRACTOR SHALL PROVIDE ALL DEWATERING MEASURES NECESSARY, INCLUDING WELL POINTS, SUMP PUMPS, TEMPORARY SHORING, ETC., TO ENSURE COMPLETION OF STABLE EXCAVATION AND BACKFILL OPERATIONS. GROUNDWATER SHALL BE MAINTAINED A MINIMUM OF 2 FT. BELOW THE BOTTOM OF ALL EXCAVATIONS.
- CONTRACTOR SHALL CONSULT WITH THE GEOTECHNICAL ENGINEER AND PROVIDE ANY AND ALL SHORING DETERMINED TO BE NECESSARY TO PROTECT EXISTING BUILDING FOUNDATIONS OR OTHER ADJACENT IMPROVEMENTS.
- OWNER SHALL ENGAGE A QUALIFIED INDEPENDENT GEOTECHNICAL ENGINEERING TESTING AGENCY TO PERFORM FIELD QUALITY CONTROL TESTING. TESTING AGENCY SHALL TEST COMPACTION OF SOILS IN PLACE ACCORDING TO ASTM D2922 AND ASTM D2937, AS APPLICABLE. TEST SHALL BE PERFORMED AT EACH COMPACTED BACKFILL LAYER AT A RATE OF NOT LESS THAN ONE TEST FOR EACH 2500 SF OF FILL AREA OR ONE TEST PER EACH 100 LF OF WALL OR TRENCH LENGTH.
- ALL GRADED OR DISTURBED AREAS BEYOND THE LIMITS OF PAVING, SIDEWALKS, BUILDINGS, ETC., THAT ARE NOT OTHERWISE LANDSCAPED PER THE LANDSCAPE PLAN, SHALL BE STABILIZED WITH A NEW LAWN SEEDING IN ACCORDANCE WITH THE SEEDING SPECIFICATION, SEE SHEET C-403. CONTRACTOR SHALL MAINTAIN SEEDING AREAS UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED.
- THE TOTAL DENUDED AREA FOR ALL PROJECT AREAS IS 1.96 ACRES. THE TOTAL DENUDED AREA FOR BASE BID IS 1.32 ACRES (NON-ADJOINING).  
 DENUDED AREA FOR MAIN STATION WORK AREA IS 1.0 ACRES.  
 DENUDED AREA FOR CAMERON BLVD. WORK AREA IS 0.56 ACRES.  
 DENUDED AREA FOR STUDENT UNION WORK AREA IS 0.08 ACRES.  
 DENUDED AREA FOR W. CLAY BLVD WORK AREA IS 0.32 ACRES.
- SEE SHEET C-403 FOR EROSION CONTROL NOTES & CONSTRUCTION SEQUENCE.



**LEGEND**

	PROPOSED CONTOUR
	PROPOSED INDEX CONTOUR
	PROPOSED SPOT ELEVATION
	PROPOSED HIGH POINT
	PROPOSED DRAINAGE SWALE
	PROPOSED STORM DRAINAGE 11/C-802
	PROPOSED AREA DRAIN 8/C-802
	SILT FENCE 7/C-802
	TREE PROTECTION FENCING 18/C-801
	CATCH BASIN INLET PROTECTION 6/C-802
	PROJECT LIMIT -/-
	PROPOSED CATCH BASIN 10,11/C-801
	PROPOSED MANHOLE 20/C-801
	ADD ALTERNATE LIMITS
	EXISTING PEDESTRIAN LIGHTING -/-
	RELOCATED PEDESTRIAN LIGHTING -/-
	PEDESTRIAN SIGNALIZATION -/-

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200 South Tryon Street, Suite 1400  
 Charlotte, North Carolina 28202

PH 704.376.1555 F 704.376.7851  
 URL www.colejeneststone.com

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 Charlotte, NC 28223

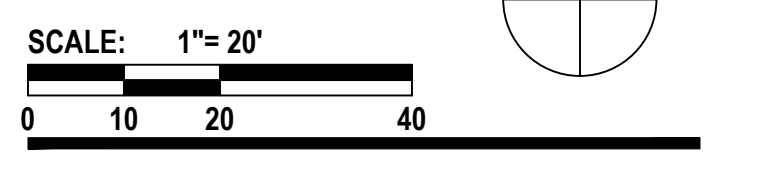
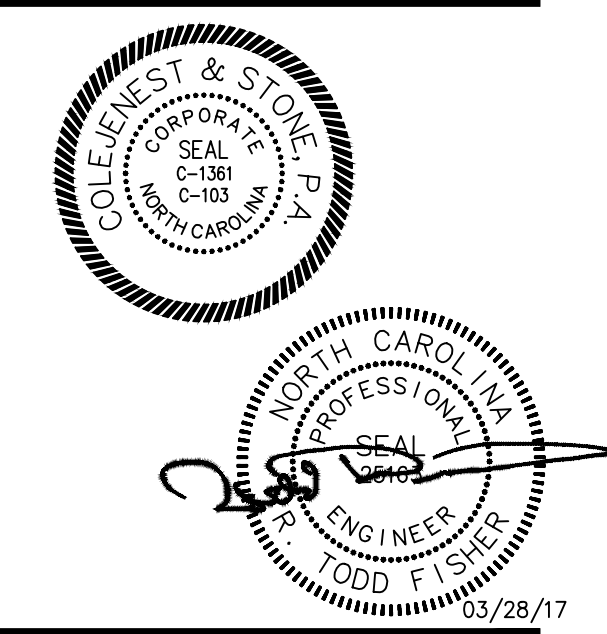
**CAMPUS CIRCULATION IMPROVEMENTS**

SCO ID# 16-14055  
 CODE 41526 ITEM 310

**MAIN STATION - GRADING, DRAINAGE AND EROSION CONTROL PLAN**

Project No. 4496  
 Issued 03/08/2017 - BID SET

Revised  
 3/17/17 - ADDENDUM #1  
 3/28/17 - ADDENDUM #2



**C-400 (BASE BID/ALT. #4.5)**

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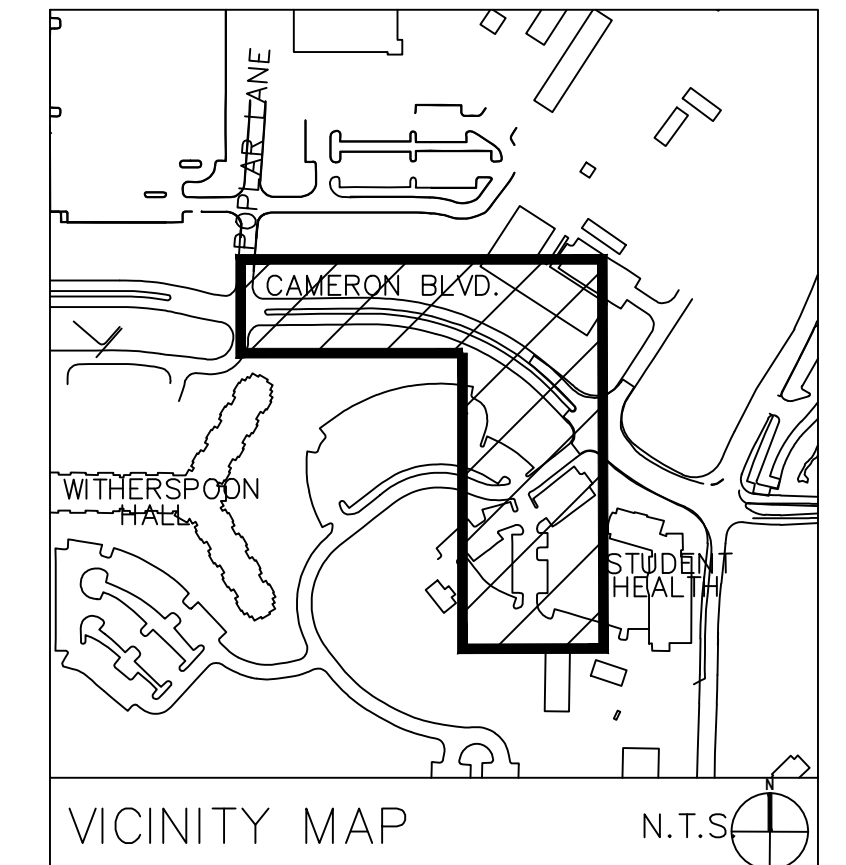
ColeJenest & Stone, P.A. 2016 ©



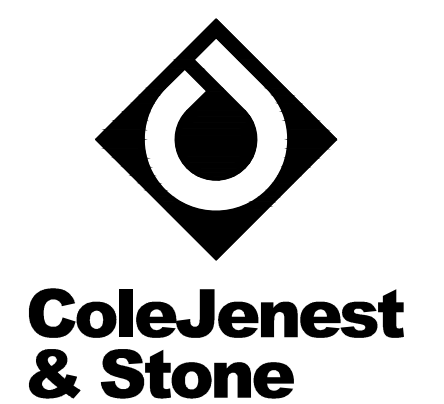
MATCHLINE SEE C-400

LOT 21

LOT 11



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 TOPOGRAPHIC SURVEY ISSUE DATE NOVEMBER 7, 2016.  
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 Charlotte, North Carolina 28202  
 p+ 704 376 1555 f+ 704 376 7851  
 url+ www.colejeneststone.com

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9201 University City Blvd  
 Charlotte, NC 28223

## CAMPUS CIRCULATION IMPROVEMENTS

SCO ID# 16-14055  
 CODE 41526 ITEM 310

## CAMERON BLVD. GRADING, DRAINAGE, AND EROSION PLAN

Project No.  
**4496**

Issued  
 03/08/2017 - BID SET

Revised  
 3/17/17 - ADDENDUM #1  
 3/28/17 - ADDENDUM #2

### LEGEND

SYMBOL	DESCRIPTION	DETAIL
	PROPOSED CONTOUR	
	PROPOSED INDEX CONTOUR	
	PROPOSED SPOT ELEVATION	
	PROPOSED HIGH POINT	
	PROPOSED DRAINAGE SWALE	
	PROPOSED STORM DRAINAGE	6/C-802
	PROPOSED AREA DRAIN	5/C-802
	SILT FENCE	19/C-801
	TREE PROTECTION FENCING	18/C-801
	CATCH BASIN INLET PROTECTION	3/C-802
	PROJECT LIMIT	-/-
	PROPOSED MANHOLE	NCDDOT STD. 840.52
	PROPOSED CATCH BASIN	10, 11/C-801
	EXISTING PEDESTRIAN LIGHTING	-/-
	RELOCATED PEDESTRIAN LIGHTING	-/-

SEE SHEET C-400 FOR GRADING & EARTHWORK NOTES.  
 SEE SHEET C-403 FOR EROSION CONTROL NOTES AND CONSTRUCTION SEQUENCE.



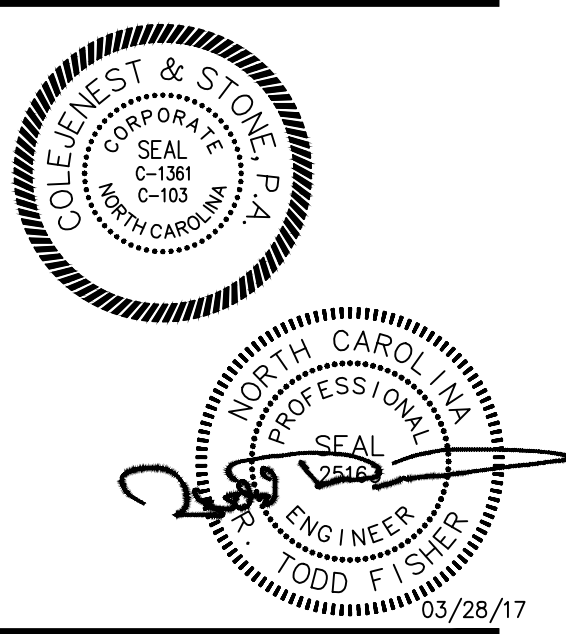
- CONTRACTOR IS FULLY RESPONSIBLE FOR CONTACTING APPROPRIATE PARTIES AND ASSURING THAT EXISTING UTILITIES ARE LOCATED PRIOR TO CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR PLACING BARRICADES USING FLAG MEN, ETC. AS NECESSARY TO INSURE SAFETY TO THE PUBLIC.
- SHORING WILL BE ACCORDING TO OSHA TRENCHING STANDARDS PART 1926 SUBPART P, OR AS AMENDED.
- CONTRACTOR SHALL COORDINATE ALL LOCATES WITH THE UNC CHARLOTTE CONSTRUCTION MANAGE WITH A MINIMUM OF 96 HOURS PRIOR TO CONSTRUCTION.

SCALE: 1"= 20'  
 0 10 20 40

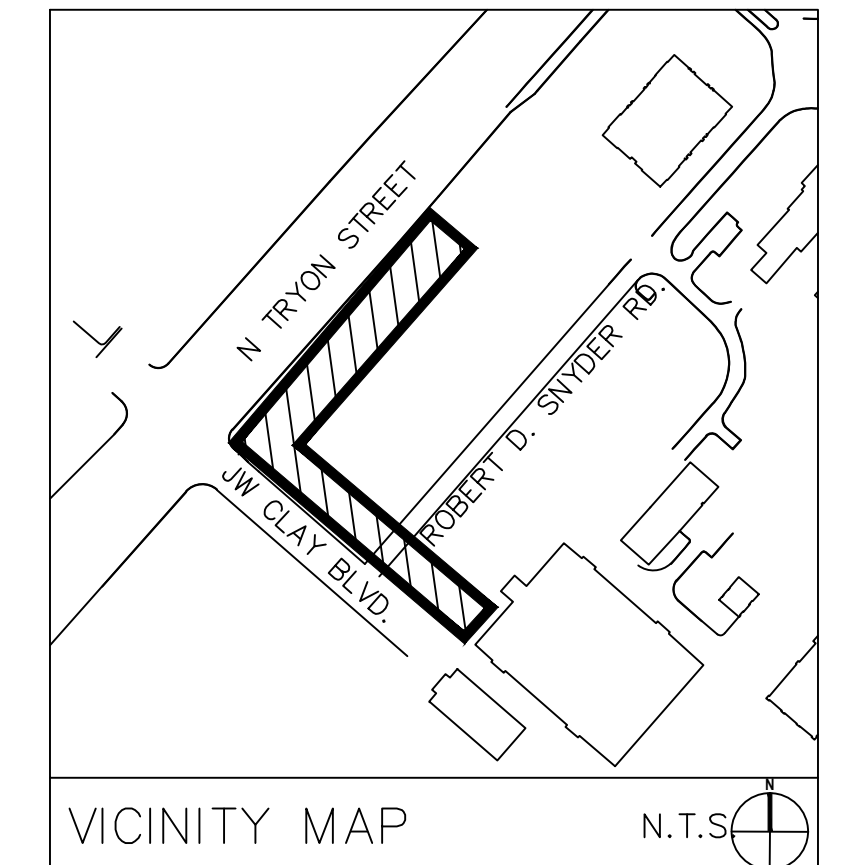
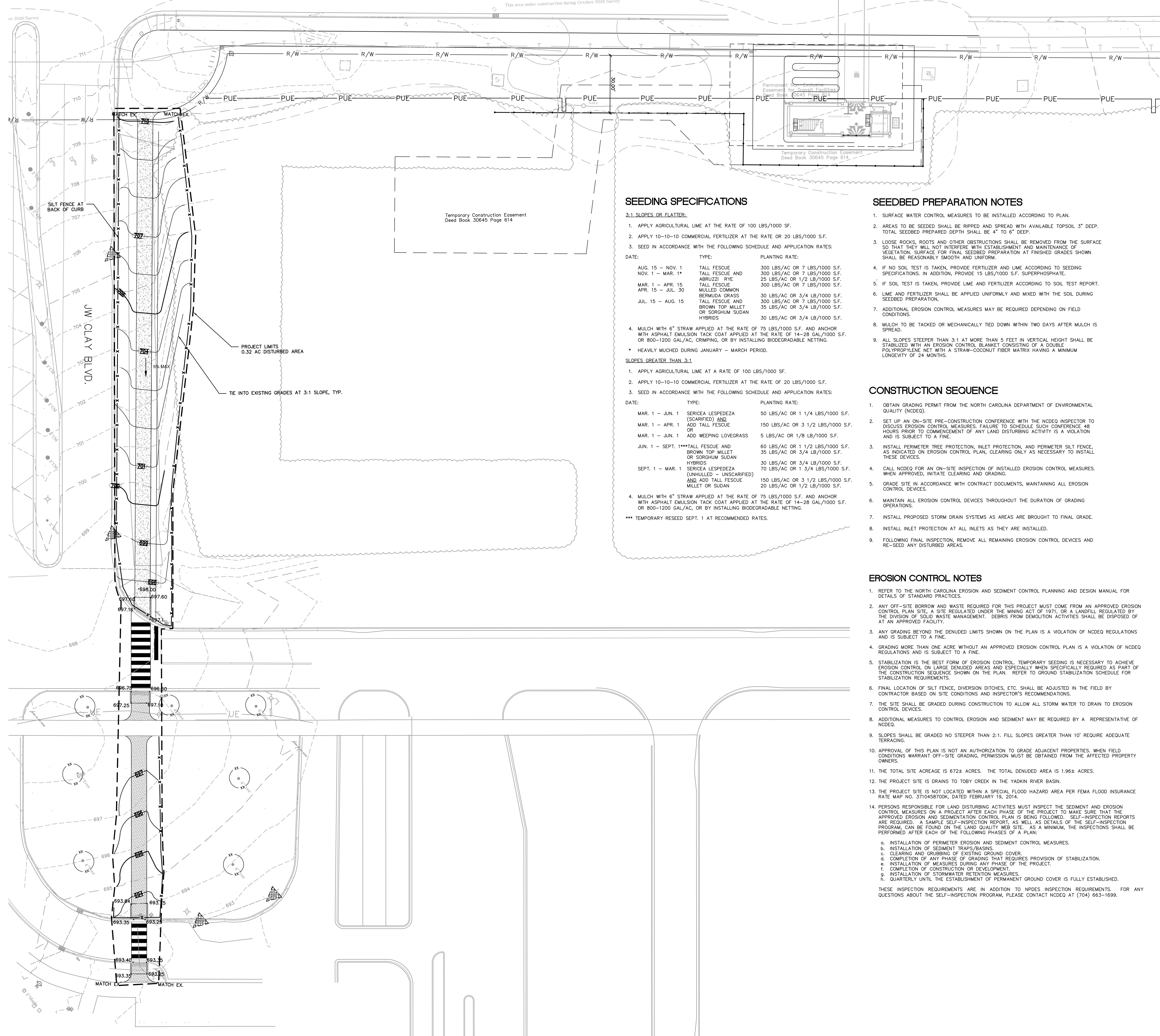
### C-401 (ADD ALTERNATE #1)

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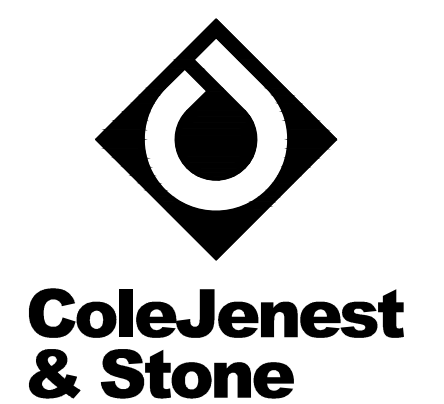
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## CAMPUS CIRCULATION IMPROVEMENTS

SCO ID# 16-14055  
CODE 41526 ITEM 310

# J.W. CLAY STATION GRADING, DRAINAGE, AND EROSION PLAN

Project No.  
4496

Issued

03/08/2017 - BID SET

Revised

3/28/17 - ADDENDUM #2

### SEEDING SPECIFICATIONS

- 3:1 SLOPES OR FLATTER:**
- APPLY AGRICULTURAL LIME AT THE RATE OF 100 LBS/1000 SF.
  - APPLY 10-10-10 COMMERCIAL FERTILIZER AT THE RATE OR 20 LBS/1000 S.F.
  - SEED IN ACCORDANCE WITH THE FOLLOWING SCHEDULE AND APPLICATION RATES:
- | DATE:             | TYPE:   | PLANTING RATE:                |
|-------------------|---|-------------------------------|
| AUG. 15 - NOV. 1  | TALL FESCUE   | 300 LBS/AC OR 7 LBS/1000 S.F. |
| NOV. 1 - MAR. 1*  | TALL FESCUE AND ABRUZZI RYE                               | 300 LBS/AC OR 7 LBS/1000 S.F. |
| MAR. 1 - APR. 15  | TALL FESCUE   | 25 LBS/AC OR 1/2 LB/1000 S.F. |
| APR. 15 - JUL. 30 | MULLED COMMON BERMUDA GRASS                               | 300 LBS/AC OR 7 LBS/1000 S.F. |
| JUL. 15 - AUG. 15 | TALL FESCUE AND BROWN TOP MILLET OR SORGHUM SUDAN HYBRIDS | 30 LBS/AC OR 3/4 LB/1000 S.F. |
- MULCH WITH 6" STRAW APPLIED AT THE RATE OF 75 LBS/1000 S.F. AND ANCHOR WITH ASPHALT EMULSION TACK COAT APPLIED AT THE RATE OF 14-28 GAL/1000 S.F. OR 800-1200 GAL/AC, CRIMPING, OR BY INSTALLING BIODEGRADABLE NETTING.
    - \* HEAVILY MULCHED DURING JANUARY - MARCH PERIOD.

- SLOPES GREATER THAN 3:1**
- APPLY AGRICULTURAL LIME AT A RATE OF 100 LBS/1000 SF.
  - APPLY 10-10-10 COMMERCIAL FERTILIZER AT THE RATE OF 20 LBS/1000 S.F.
  - SEED IN ACCORDANCE WITH THE FOLLOWING SCHEDULE AND APPLICATION RATES:
- | DATE:            | TYPE:  | PLANTING RATE:  |
|------------------|--|---|
| MAR. 1 - JUN. 1  | SERICEA LESPEDEZA (SCARIFIED) AND ADD TALL FESCUE OR ADD WEeping LOVEGRASS     | 50 LBS/AC OR 1 1/4 LBS/1000 S.F.<br>150 LBS/AC OR 3 1/2 LBS/1000 S.F.<br>5 LBS/AC OR 1/8 LB/1000 S.F.                                   |
| JUN. 1 - SEPT. 1 | *****TALL FESCUE AND BROWN TOP MILLET OR SORGHUM SUDAN HYBRIDS                 | 60 LBS/AC OR 1 1/2 LBS/1000 S.F.<br>35 LBS/AC OR 3/4 LB/1000 S.F.   |
| SEPT. 1 - MAR. 1 | SERICEA LESPEDEZA (UNMULLED - UNSCARIFIED) AND ADD TALL FESCUE MILLET OR SUDAN | 30 LBS/AC OR 3/4 LB/1000 S.F.<br>70 LBS/AC OR 1 3/4 LBS/1000 S.F.<br>150 LBS/AC OR 3 1/2 LBS/1000 S.F.<br>20 LBS/AC OR 1/2 LB/1000 S.F. |
- MULCH WITH 6" STRAW APPLIED AT THE RATE OF 75 LBS/1000 S.F. AND ANCHOR WITH ASPHALT EMULSION TACK COAT APPLIED AT THE RATE OF 14-28 GAL/1000 S.F. OR 800-1200 GAL/AC, OR BY INSTALLING BIODEGRADABLE NETTING.
- \*\*\* TEMPORARY RESEED SEPT. 1 AT RECOMMENDED RATES.

### SEEDBED PREPARATION NOTES

- SURFACE WATER CONTROL MEASURES TO BE INSTALLED ACCORDING TO PLAN.
- AREAS TO BE SEEDD SHALL BE RIPPED AND SPREAD WITH AVAILABLE TOPSOIL 3" DEEP. TOTAL SEEDBED PREPARED DEPTH SHALL BE 4" TO 6" DEEP.
- LOOSE ROCKS, ROOTS AND OTHER OBSTRUCTIONS SHALL BE REMOVED FROM THE SURFACE SO THAT THEY WILL NOT INTERFERE WITH ESTABLISHMENT AND MAINTENANCE OF VEGETATION. SURFACE FOR FINAL SEEDBED PREPARATION AT FINISHED GRADES SHOWN SHALL BE REASONABLY SMOOTH AND UNIFORM.
- IF NO SOIL TEST IS TAKEN, PROVIDE FERTILIZER AND LIME ACCORDING TO SEEDING SPECIFICATIONS. IN ADDITION, PROVIDE 15 LBS/1000 S.F. SUPERPHOSPHATE.
- IF SOIL TEST IS TAKEN, PROVIDE LIME AND FERTILIZER ACCORDING TO SOIL TEST REPORT.
- LIME AND FERTILIZER SHALL BE APPLIED UNIFORMLY AND MIXED WITH THE SOIL DURING SEEDBED PREPARATION.
- ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DEPENDING ON FIELD CONDITIONS.
- MULCH TO BE TACKED OR MECHANICALLY TIED DOWN WITHIN TWO DAYS AFTER MULCH IS SPREAD.
- ALL SLOPES STEEPER THAN 3:1 AT MORE THAN 5 FEET IN VERTICAL HEIGHT SHALL BE STABILIZED WITH AN EROSION CONTROL BLANKET CONSISTING OF A DOUBLE POLYPROPYLENE NET WITH A STRAW-COCONUT FIBER MATRIX HAVING A MINIMUM LONGEVITY OF 24 MONTHS.

### CONSTRUCTION SEQUENCE

- OBTAIN GRADING PERMIT FROM THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY (NCEQ).
- SET UP AN ON-SITE PRE-CONSTRUCTION CONFERENCE WITH THE NCEQ INSPECTOR TO DISCUSS EROSION CONTROL MEASURES. FAILURE TO SCHEDULE SUCH CONFERENCE 48 HOURS PRIOR TO COMMENCEMENT OF ANY LAND DISTURBING ACTIVITY IS A VIOLATION AND IS SUBJECT TO A FINE.
- INSTALL PERIMETER TREE PROTECTION, INLET PROTECTION, AND PERIMETER SILT FENCE, AS INDICATED ON EROSION CONTROL PLAN, CLEARING ONLY AS NECESSARY TO INSTALL THESE DEVICES.
- CALL NCEQ FOR AN ON-SITE INSPECTION OF INSTALLED EROSION CONTROL MEASURES. WHEN APPROVED, INITIATE CLEARING AND GRADING.
- GRADE SITE IN ACCORDANCE WITH CONTRACT DOCUMENTS, MAINTAINING ALL EROSION CONTROL DEVICES.
- MAINTAIN ALL EROSION CONTROL DEVICES THROUGHOUT THE DURATION OF GRADING OPERATIONS.
- INSTALL PROPOSED STORM DRAIN SYSTEMS AS AREAS ARE BROUGHT TO FINAL GRADE.
- INSTALL INLET PROTECTION AT ALL INLETS AS THEY ARE INSTALLED.
- FOLLOWING FINAL INSPECTION, REMOVE ALL REMAINING EROSION CONTROL DEVICES AND RE-SEED ANY DISTURBED AREAS.

### EROSION CONTROL NOTES

- REFER TO THE NORTH CAROLINA EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL FOR DETAILS OF STANDARD PRACTICES.
- ANY OFF-SITE BORROW AND WASTE REQUIRED FOR THIS PROJECT MUST COME FROM AN APPROVED EROSION CONTROL PLAN SITE, A SITE REGULATED UNDER THE MINING ACT OF 1971, OR A LANDFILL REGULATED BY THE DIVISION OF SOLID WASTE MANAGEMENT. DEBRIS FROM DEMOLITION ACTIVITIES SHALL BE DISPOSED OF AT AN APPROVED FACILITY.
- ANY GRADING BEYOND THE DENUDED LIMITS SHOWN ON THE PLAN IS A VIOLATION OF NCEQ REGULATIONS AND IS SUBJECT TO A FINE.
- GRADING MORE THAN ONE ACRE WITHOUT AN APPROVED EROSION CONTROL PLAN IS A VIOLATION OF NCEQ REGULATIONS AND IS SUBJECT TO A FINE.
- STABILIZATION IS THE BEST FORM OF EROSION CONTROL. TEMPORARY SEEDING IS NECESSARY TO ACHIEVE EROSION CONTROL ON LARGE DENUDED AREAS AND ESPECIALLY WHEN SPECIFICALLY REQUIRED AS PART OF THE CONSTRUCTION SEQUENCE SHOWN ON THE PLAN. REFER TO GROUND STABILIZATION SCHEDULE FOR STABILIZATION REQUIREMENTS.
- FINAL LOCATION OF SILT FENCE, DIVERSION DITCHES, ETC. SHALL BE ADJUSTED IN THE FIELD BY CONTRACTOR BASED ON SITE CONDITIONS AND INSPECTOR'S RECOMMENDATIONS.
- THE SITE SHALL BE GRADED DURING CONSTRUCTION TO ALLOW ALL STORM WATER TO DRAIN TO EROSION CONTROL DEVICES.
- ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BY A REPRESENTATIVE OF NCEQ.
- SLOPES SHALL BE GRADED NO STEEPER THAN 2:1. FILL SLOPES GREATER THAN 10' REQUIRE ADEQUATE TERRACING.
- APPROVAL OF THIS PLAN IS NOT AN AUTHORIZATION TO GRADE ADJACENT PROPERTIES. WHEN FIELD CONDITIONS WARRANT OFF-SITE GRADING, PERMISSION MUST BE OBTAINED FROM THE AFFECTED PROPERTY OWNERS.
- THE TOTAL SITE ACREAGE IS 672± ACRES. THE TOTAL DENUDED AREA IS 1.96± ACRES.
- THE PROJECT SITE IS NOT LOCATED WITHIN A SPECIAL FLOOD HAZARD AREA PER FEMA FLOOD INSURANCE RATE MAP NO. 370458700K, DATED FEBRUARY 19, 2014.
- PERSONS RESPONSIBLE FOR LAND DISTURBING ACTIVITIES MUST INSPECT THE SEDIMENT AND EROSION CONTROL MEASURES ON A PROJECT AFTER EACH PHASE OF THE PROJECT TO MAKE SURE THAT THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN IS BEING FOLLOWED. SELF-INSPECTION REPORTS ARE REQUIRED. A SAMPLE SELF-INSPECTION REPORT, AS WELL AS DETAILS OF THE SELF-INSPECTION PROGRAM, CAN BE FOUND ON THE LAND QUALITY WEB SITE. AS A MINIMUM, THE INSPECTIONS SHALL BE PERFORMED AFTER EACH OF THE FOLLOWING PHASES OF A PLAN:
  - INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROL MEASURES.
  - INSTALLATION OF SEDIMENT TRAPS/BASINS.
  - CLEARING AND GRUBBING OF EXISTING GROUND COVER.
  - COMPLETION OF ANY PHASE OF GRADING THAT REQUIRES PROVISION OF STABILIZATION.
  - INSTALLATION OF MEASURES DURING ANY PHASE OF THE PROJECT.
  - COMPLETION OF CONSTRUCTION OR DEVELOPMENT.
  - INSTALLATION OF STORMWATER RETENTION MEASURES.
  - QUARTERLY UNTIL THE ESTABLISHMENT OF PERMANENT GROUND COVER IS FULLY ESTABLISHED.

THESE INSPECTION REQUIREMENTS ARE IN ADDITION TO NPDES INSPECTION REQUIREMENTS. FOR ANY QUESTIONS ABOUT THE SELF-INSPECTION PROGRAM, PLEASE CONTACT NCEQ AT (704) 663-1699.

### LEGEND

- | SYMBOL | DESCRIPTION                  | DETAIL   |
|--------|------------------------------|----------|
|        | PROPOSED CONTOUR             |          |
|        | PROPOSED INDEX CONTOUR       |          |
|        | PROPOSED SPOT ELEVATION      |          |
|        | PROPOSED HIGH POINT          |          |
|        | PROPOSED DRAINAGE SWALE      |          |
|        | PROPOSED STORM DRAINAGE      | 6/C-802  |
|        | PROPOSED AREA DRAIN          | 5/C-802  |
|        | SILT FENCE                   | 19/C-801 |
|        | TREE PROTECTION FENCING      | 18/C-801 |
|        | CATCH BASIN INLET PROTECTION | 3/C-802  |
|        | PROJECT LIMIT                | -/-      |

SEE SHEET C-400 FOR GRADING & EARTHWORK NOTES.

Site Area Description	Stabilization Time Frame	Stabilization Time Frame Exceptions
Perimeter dikes, swales, ditches and slopes	7 days	None
High Quality Water (HQW) Zones	7 days	None
Slopes steeper than 3:1	7 days	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed.
Slopes 3:1 or flatter	14 days	7-days for slopes greater than 50 feet in length
All other areas with slopes flatter than 4:1	14 days	None (except for perimeters and HQW Zones)

\*Extensions of time may be approved by the permitting authority based on weather or other site-specific conditions that make compliance impracticable." (Section II.B(2)(b))



- CONTRACTOR IS FULLY RESPONSIBLE FOR CONTACTING APPROPRIATE PARTIES AND ASSURING THAT EXISTING UTILITIES ARE LOCATED PRIOR TO CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR PLACING BARRICADES USING FLAG MEN, ETC. AS NECESSARY TO INSURE SAFETY TO THE PUBLIC.
- SHORING WILL BE ACCORDING TO OSHA TRENCHING STANDARDS PART 1926 SUBPART P, OR AS AMENDED.
- CONTRACTOR SHALL COORDINATE ALL LOCATES WITH THE UNC CHARLOTTE CONSTRUCTION MANAGE WITH A MINIMUM OF 96 HOURS PRIOR TO CONSTRUCTION.

SCALE: 1"= 20'  
0 10 20 40

### C-403 (BASE BID/ALT #7.8)

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