

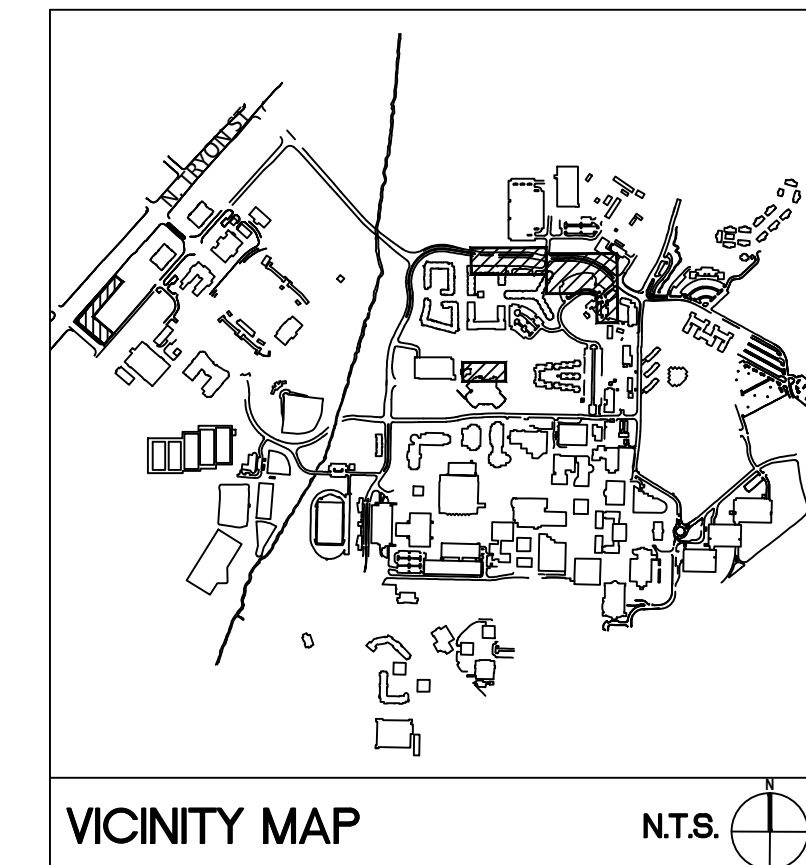
J.W. CLAY STATION
IMPROVEMENT AREA
(BASE BID & ALTERNATES #7,#8)

2 CAMERON BLVD.
IMPROVEMENT AREA
(ALTERNATE #1)

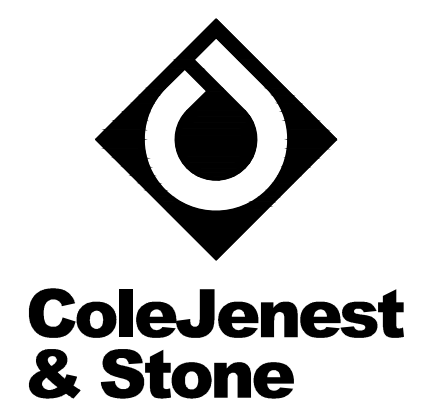
1 MAIN STATION
IMPROVEMENT AREA
(BASE BID & ALTERNATES #4,#5,#6)

3 STUDENT UNION
IMPROVEMENT AREA
(ALTERNATE #2)

- 4 PROJECT AREAS:**
- 1) MAIN STATION
 - 2) CAMERON BLVD
 - 3) STUDENT UNION
 - 4) JW CLAY



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 TOPOGRAPHIC SURVEY ISSUE DATE NOVEMBER 7, 2016.
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CAMPUS CIRCULATION IMPROVEMENTS

SCO ID# 16-14055
CODE 41526 ITEM 310

COVER SHEET

Project No.
4496

Issued
03/08/2017 - BID SET

Revised

SCOPE

BASE BID/ALT.#4
ADD ALT. #1
ADD ALT. #2
BASE BID/ALT. #7,8
BASE BID/ALT. #3,4,5
ADD ALT. #1
ADD ALT. #2
BASE BID/ALT. #7,8
BASE BID/ALT. #4,5

ADD ALT. #1

ADD ALT. #2

BASE BID/ALT. #7,8

BASE BID/ALT.#4
BASE BID/ALT. #6A/6B
ADD ALT. #1
ADD ALT. #2
ADD ALT. #6C
BASE BID/ALTS.
BASE BID/ALTS.
BASE BID/ALTS.

SHEET INDEX

COMPANY: COLE JENEST & STONE	
SHEET NUMBER	SHEET TITLE
C-000	COVER SHEET
C-001	APPENDIX B
V-100	CAMERON BLVD - EXISTING CONDITIONS
V-101	CAMERON BLVD - EXISTING CONDITIONS
V-102	LOT 11 - EXISTING CONDITIONS
V-103	STUDENT UNION - EXISTING CONDITIONS
V-104	J.W. CLAY - EXISTING CONDITIONS
V-105	MAIN STATION - EXISTING CONDITIONS
C-100	MAIN STATION - DEMOLITION PLAN
C-101	CAMERON BLVD - DEMOLITION PLAN
C-102	STUDENT UNION - DEMOLITION PLAN
C-103	J.W. CLAY - DEMOLITION PLAN
C-200	MAIN STATION - STAKING & MATERIALS PLAN
C-201	CAMERON BLVD - STAKING & MATERIALS PLAN
C-202	STUDENT UNION - STAKING & MATERIALS PLAN
C-203	J.W. CLAY - STAKING & MATERIALS PLAN
C-400	MAIN STATION - GRADING, DRAINAGE AND EROSION CONTROL PLAN
C-401	CAMERON BLVD - GRADING, DRAINAGE AND EROSION CONTROL PLAN
C-402	STUDENT UNION - GRADING, DRAINAGE AND EROSION CONTROL PLAN
C-403	J.W. CLAY - GRADING, DRAINAGE, AND EROSION CONTROL PLAN
C-500	MAIN STATION - UTILITY PLAN
C-700	MAIN STATION - PLANTING PLAN
C-701	CAMERON BLVD - PLANTING PLAN
C-702	STUDENT UNION - PLANTING PLAN
C-703	J.W. CLAY - PLANTING PLAN
C-800	SITE DETAILS
C-801	SITE DETAILS
C-802	SITE DETAILS

COMPANY: ALTA PLANNING AND DESIGN	
SHEET NUMBER	SHEET TITLE
C-900	MAIN STATION - SIGNAGE AND PAVEMENT MARKING PLAN
C-901	MAIN STATION - SIGNAL PLAN

COMPANY: ELM ENGINEERING	
SHEET NUMBER	SHEET TITLE
E-100	ELECTRICAL COVER SHEET
E-101	EXISTING ELECTRICAL POWER RISER DIAGRAM
E-102	ELECTRICAL DETAILS
E-103	PANELBOARD SCHEDULE AND DETAILS
E-200	MAIN STATION - SITE PLAN
E-201	CAMERON BLVD - SITE PLAN
E-202	STUDENT UNION - SITE PLAN

COMPANY: IRRIGATION INNOVATIONS	
SHEET NUMBER	SHEET TITLE
I-100	MAIN STATION - IRRIGATION PLAN
I-101	MAIN STATION - IRRIGATION DETAILS

BASE BID/ALT.#5

ADD ALT. #5

BASE BID/ALTS.
BASE BID/ALTS.
BASE BID/ALTS.
BASE BID/ALTS.
BASE BID/ALT.#4,5
ADD ALT. #1
ADD ALT. #2

BASE BID/ALTS.
BASE BID/ALTS.

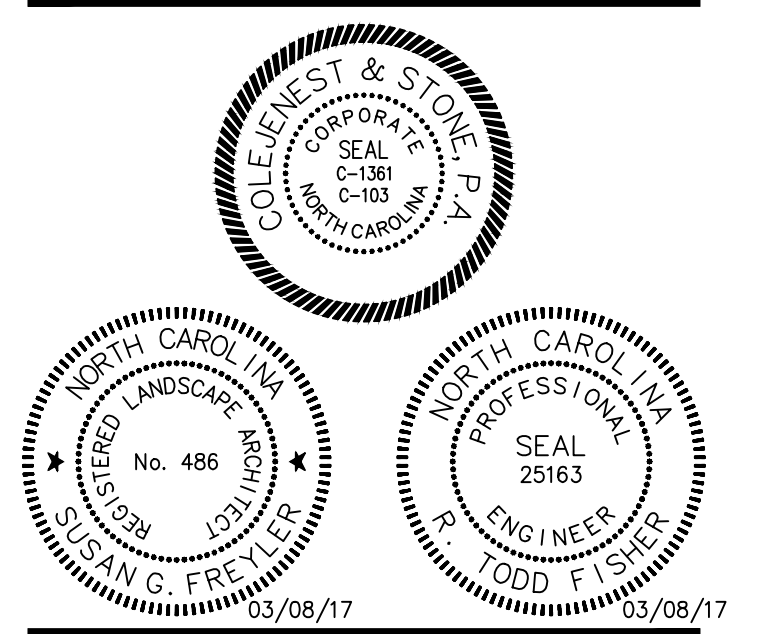
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ELM ENGINEERING
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(704) 335-0396

IRRIGATION INNOVATIONS
4218 CAHNNAS WAY
WAXHAW, NC 28173
(704) 256-4873

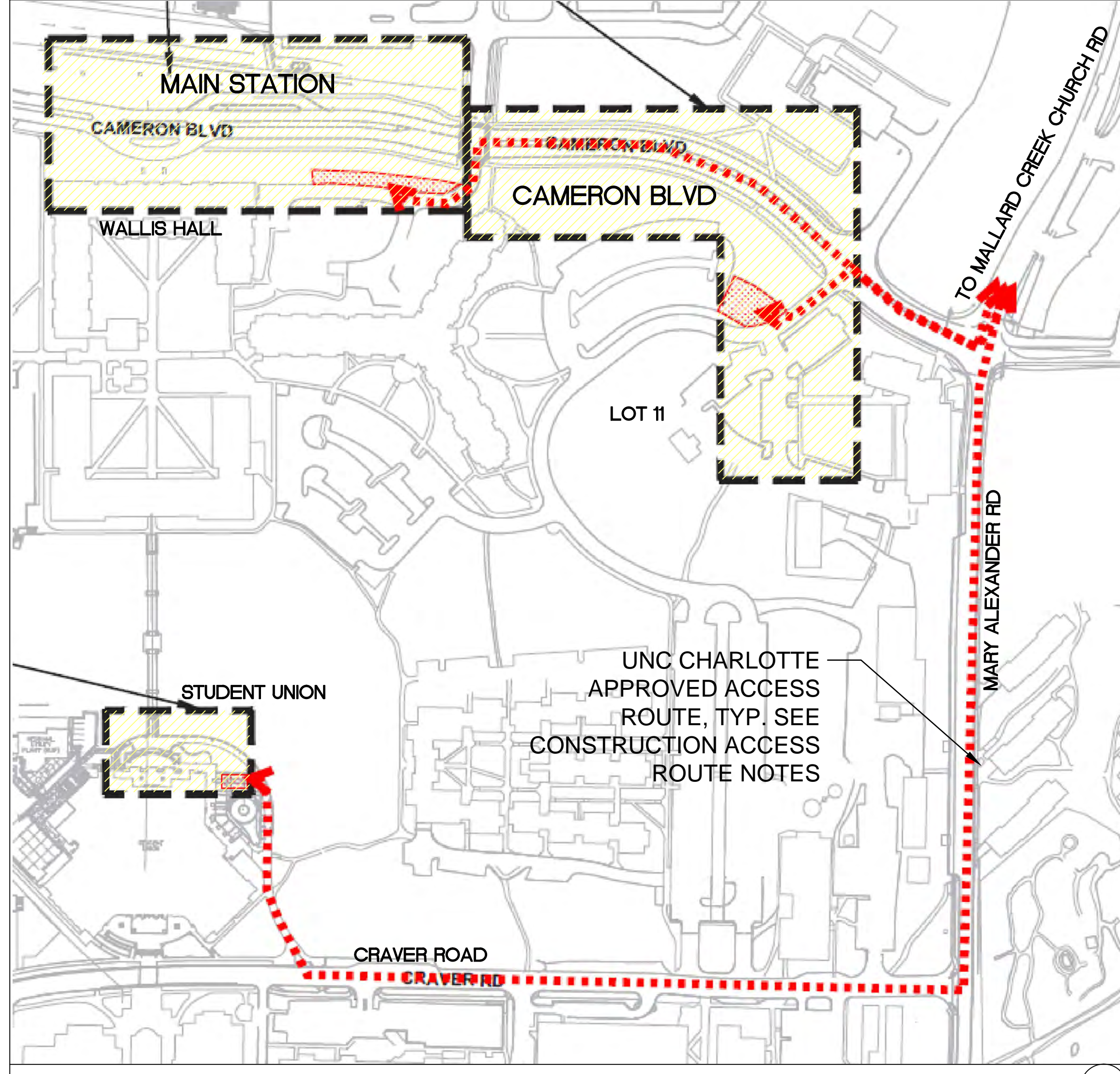
ALTA PLANNING & DESIGN
108 S MAIN ST
DAVIDSON, NC 28036
(704) 255-6200

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



C-000

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CONSTRUCTION ACCESS ROUTES

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

CAMERON BLVD./LOT 11 - ALTERNATE #1:
CONTRACTOR SHALL ONLY USE THE FOLLOWING ACCESS ROUTE: MALLARD CREEK CHURCH RD., MARY ALEXANDER RD., CAMERON BLVD., POPLAR 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

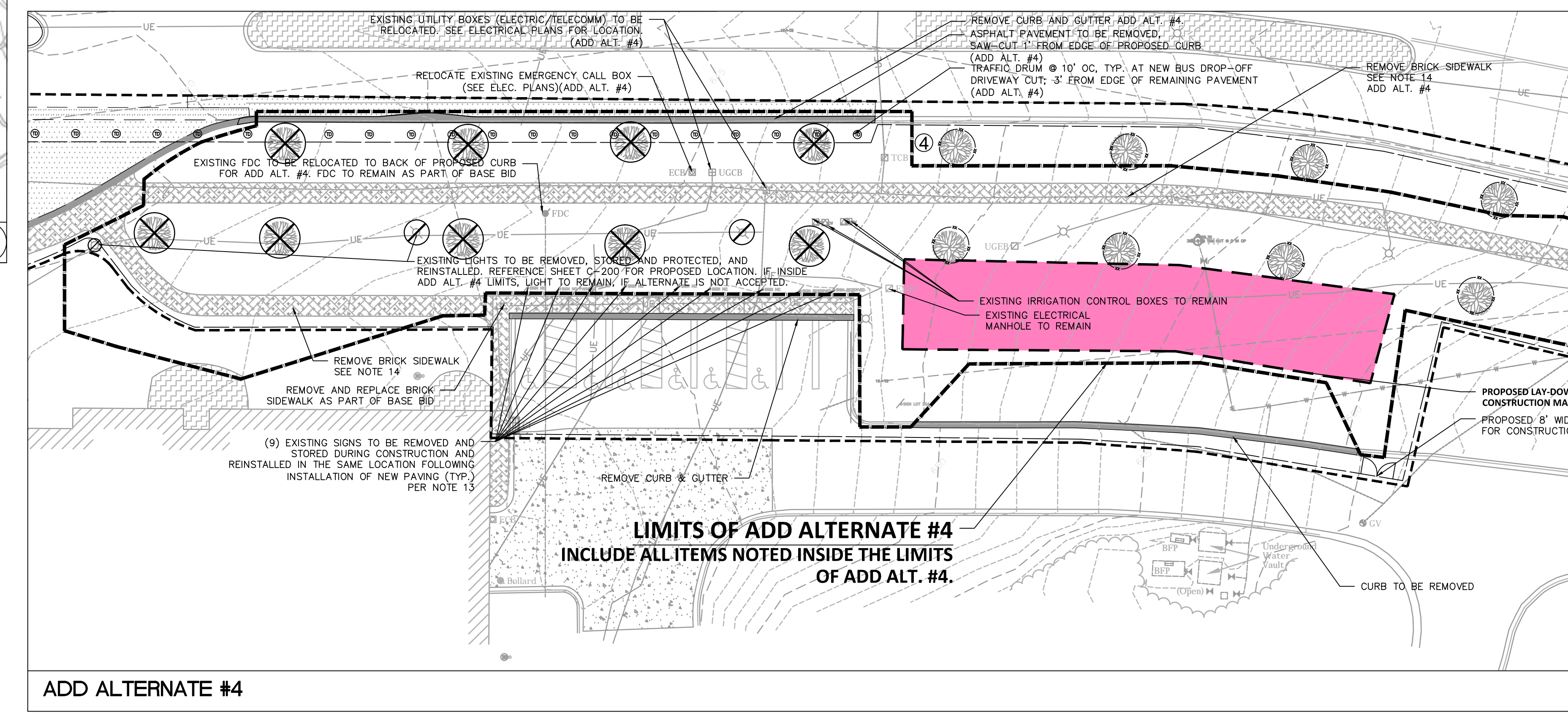
WORK TO INCLUDE INSTALLATION OF PROPOSED PLANT MATERIAL (PLANTS AND SOD) TO BE LOCATED IN EXISTING AND PROPOSED PLANTING BEDS IN FRONT OF WALLIS HALL. ADDITIONALLY, TWO (2) STREET TREES ARE TO BE INSTALLED ALONG CAMERON BLVD., IN FRONT OF WALLIS HALL.

ADD ALTERNATE #6B - LANDSCAPE AT MAIN STATION

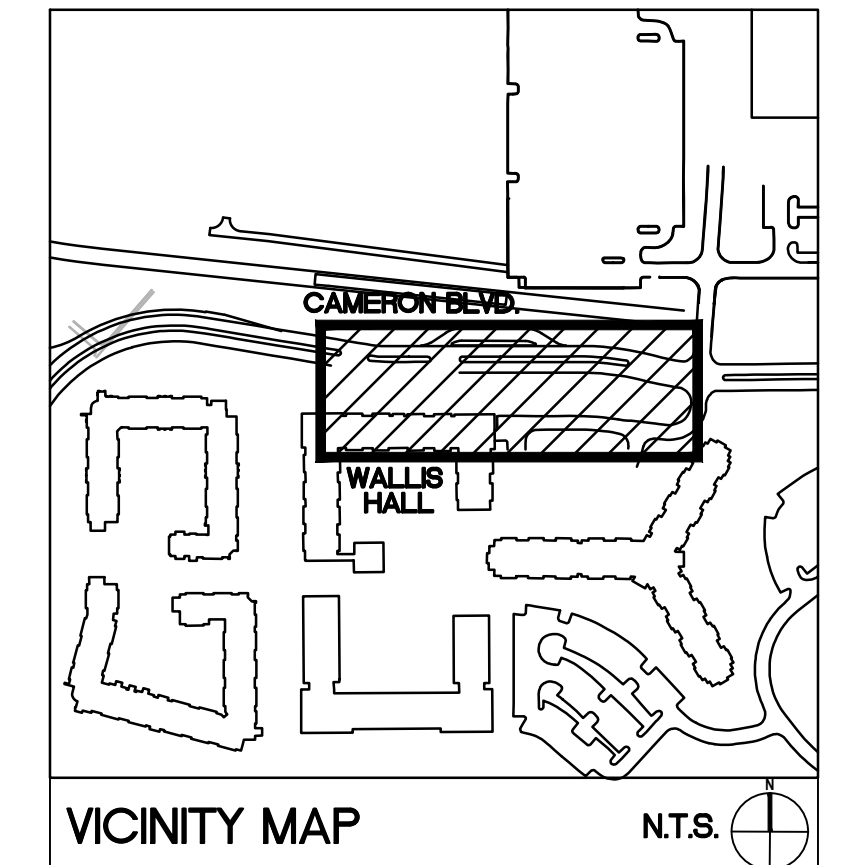
WORK TO INCLUDE INSTALLATION OF PROPOSED PLANT MATERIAL (PLANTS AND SOD) TO BE LOCATED IN EXISTING AND PROPOSED PLANTING BEDS IN FRONT OF WALLIS HALL. ADDITIONALLY, SOD FOR ALL DISTURBED AREAS AS PART OF ALTERNATE #4, THREE (3) STREET TREES, AND FIVE (5) EVERGREEN TREES ARE TO BE INSTALLED ALONG CAMERON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

CONSTRUCTION ACCESS MAP NTS 1

- 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 AND AS NOT TO ADVERSELY AFFECT THE PROJECT 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.
 - ALL PLANT MATERIAL THAT IS IDENTIFIED TO BE TRANSPORTED MATERIAL (TREES) SHALL BE REMOVED BY THE CONTRACTOR. CONTRACTOR AND TRANSPORTED TO A HOLDING AREA DETERMINED BY UNCC CONSTRUCTION MANAGER. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE PLANT MATERIAL DURING CONSTRUCTION (UNC CHARLOTTE WILL PROVIDE WATER TO PLANT MATERIAL). CONTRACTOR IS RESPONSIBLE TO REINSTALL/RELOCATE PLANT MATERIAL. FOR TREES TO BE TRANSPORTED, AT THE MAIN STATION PROJECT AREA, SEE SHEET C-700 FOR LOCATIONS.
 - CONTRACTOR SHALL COORDINATE ALL UTILITY LOCATES WITH THE UNCC 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 UNCC CHARLOTTE CONSTRUCTION MANAGER TO DETERMINE WHICH EXISTING TREES SHALL BE TRANSPORTED BY OWNER. ALL REMAINING TREES NOT TO BE REMOVED WILL BE REMOVED.



ADD ALTERNATE #4

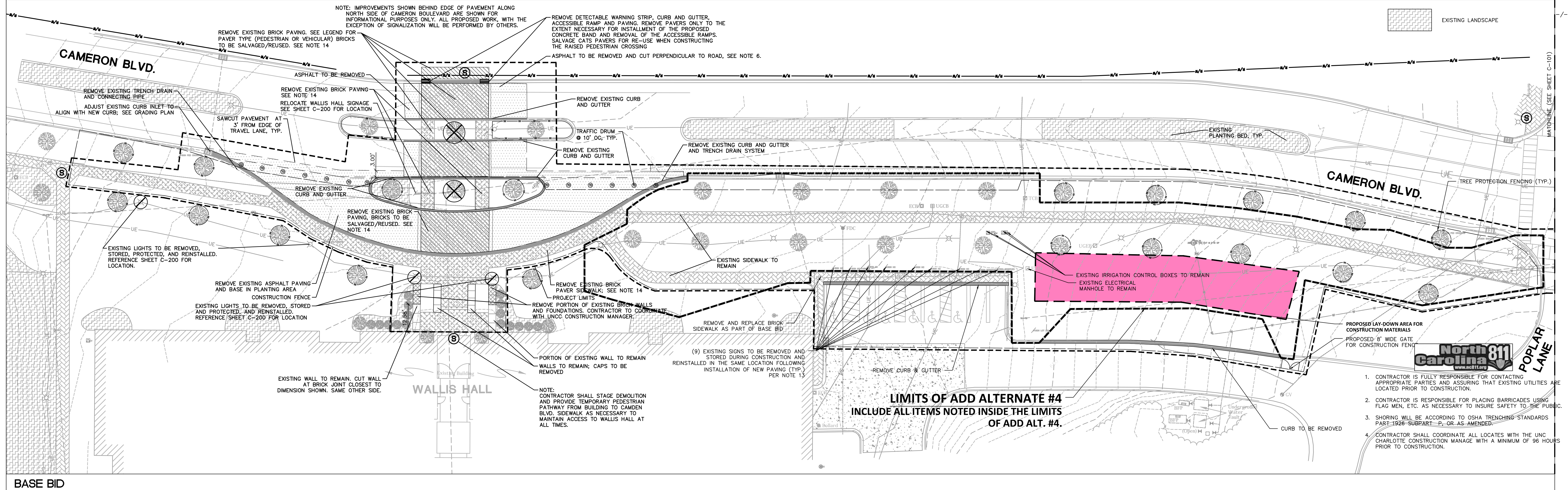


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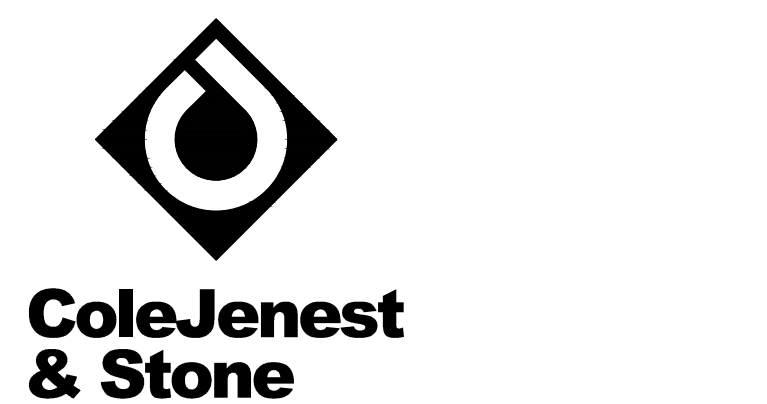
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LEGEND

[Symbol]	ASPHALT TO BE REMOVED	-/-
[Symbol]	PEDESTRIAN PAVERS TO BE REMOVED SEE NOTE 14	-/-
[Symbol]	VEHICULAR PAVERS TO BE REMOVED	-/-
[Symbol]	CURB TO BE REMOVED	-/-
[Symbol]	VEGETATION TO BE REMOVED	-/-
[Symbol]	TREE TO BE REMOVED (SEE NOTE 18)	-/-
[Symbol]	EXISTING TREE (APPROXIMATE LOCATION)	-/-
[Symbol]	EXISTING PEDESTRIAN LIGHT POLE	-/-
[Symbol]	LIGHT FIXTURE TO BE RELOCATED	-/-
[Symbol]	TREE PROTECTION FENCING	18/C-801
[Symbol]	PROJECT LIMIT	-/-
[Symbol]	CONSTRUCTION FENCE	-/-
[Symbol]	SIDEWALK CLOSED SIGN	-/-
[Symbol]	TRAFFIC DRUM	-/-
[Symbol]	ADD ALTERNATE LIMITS	-/-
[Symbol]	EXISTING LANDSCAPE	-/-



BASE BID



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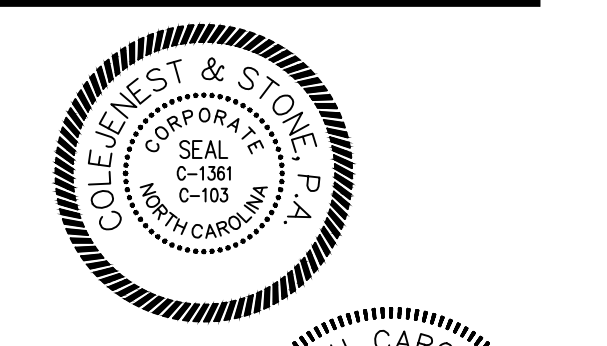
SCO ID# 16-14055
CODE 41526 ITEM 310

MAIN STATION - DEMOLITION PLAN

Project No.
4496

Issued
03/08/2017 - BID SET

Revised

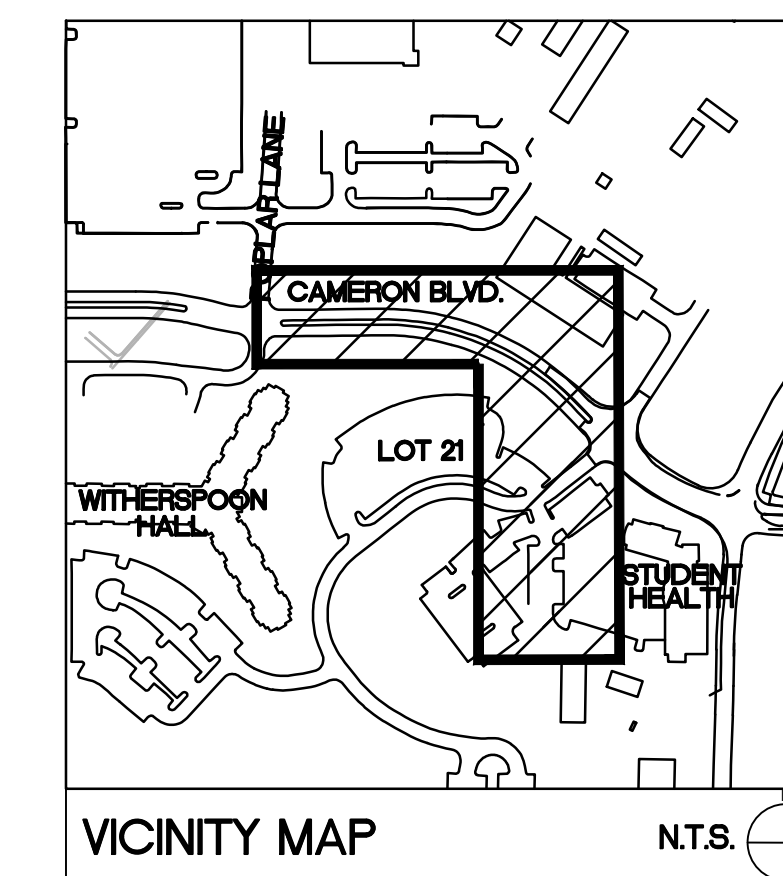
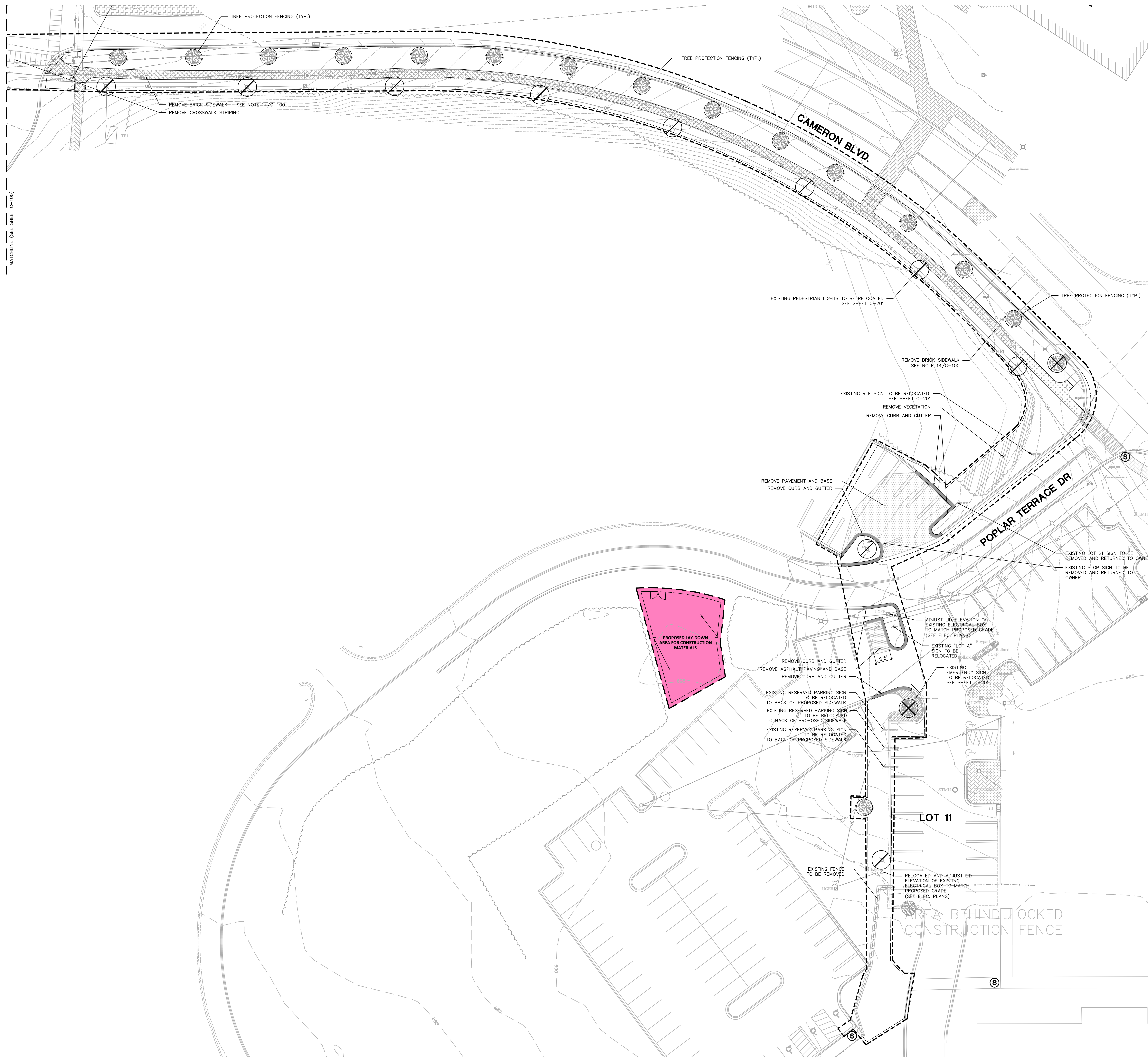


SCALE: 1"=20'
0 10 20 40

C-100
(BASE BID / ALT #4)

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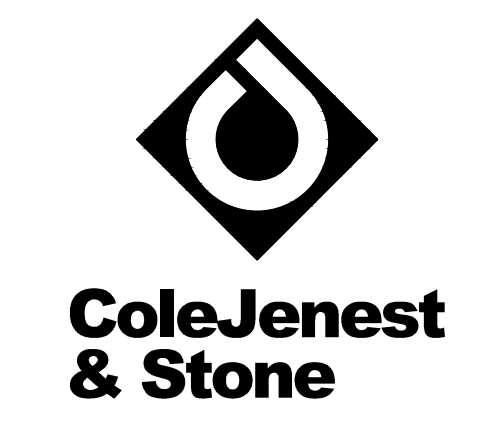


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LEGEND

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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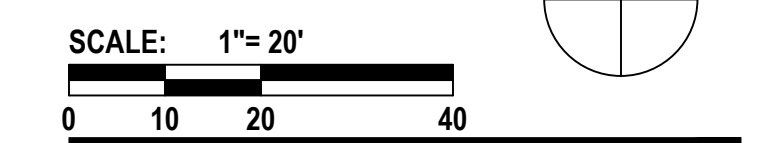
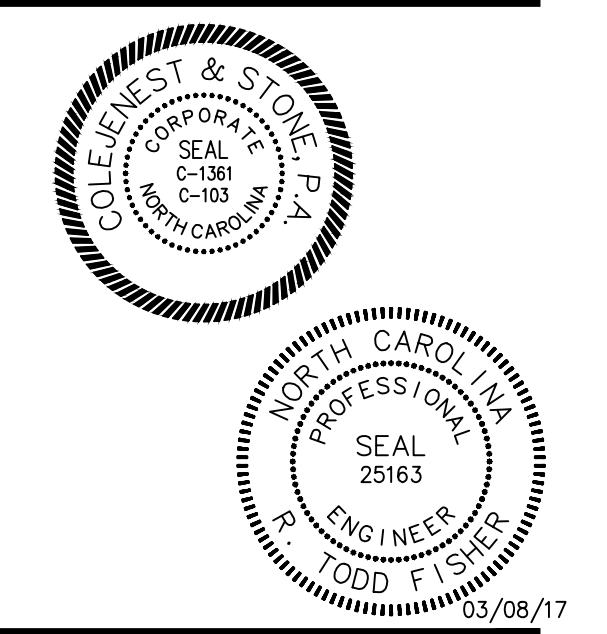
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CAMERON BLVD DEMOLITION PLAN

Project No.
 4496

Issued
 03/08/2017 - BID SET

Revised

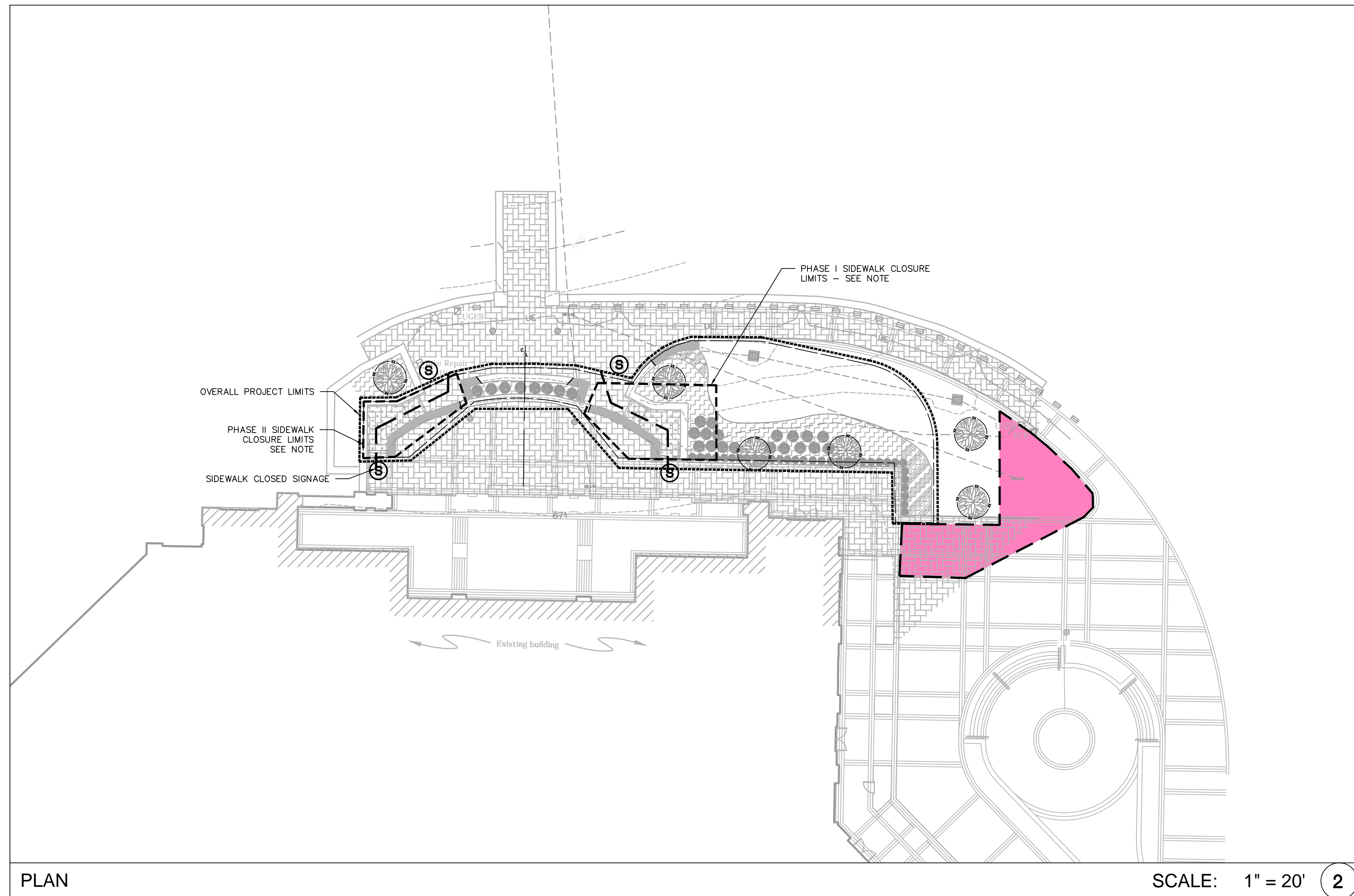


C-101
 (ADD ALTERNATE #1)

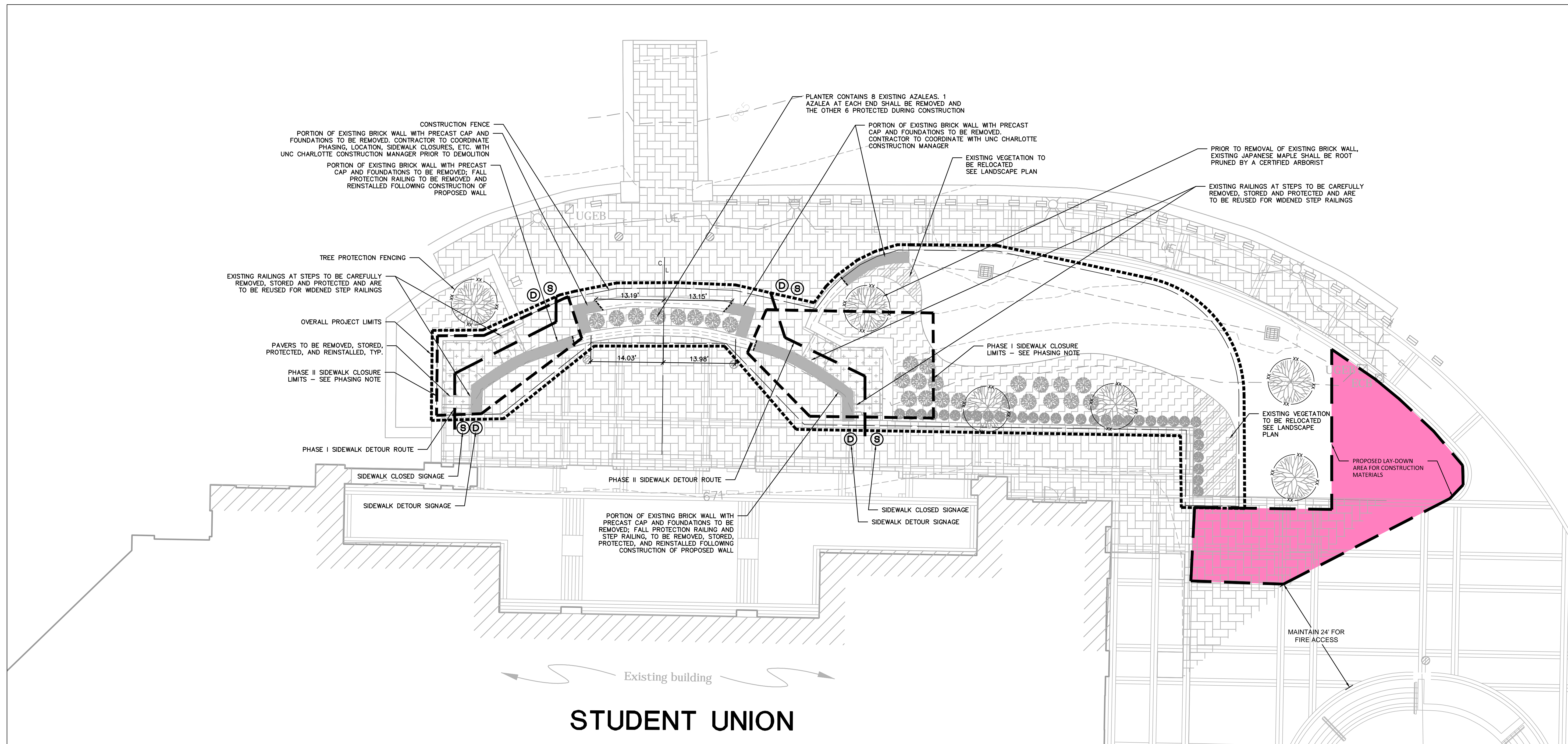
1. CONTRACTOR IS FULLY RESPONSIBLE FOR CONTACTING APPROPRIATE PARTIES AND ASSURING THAT EXISTING UTILITIES ARE LOCATED PRIOR TO CONSTRUCTION.
2. CONTRACTOR IS RESPONSIBLE FOR PLACING BARRICADES USING FLAG MEN, ETC. AS NECESSARY TO INSURE SAFETY TO THE PUBLIC.
3. SHORING WILL BE ACCORDING TO OSHA TRENCHING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

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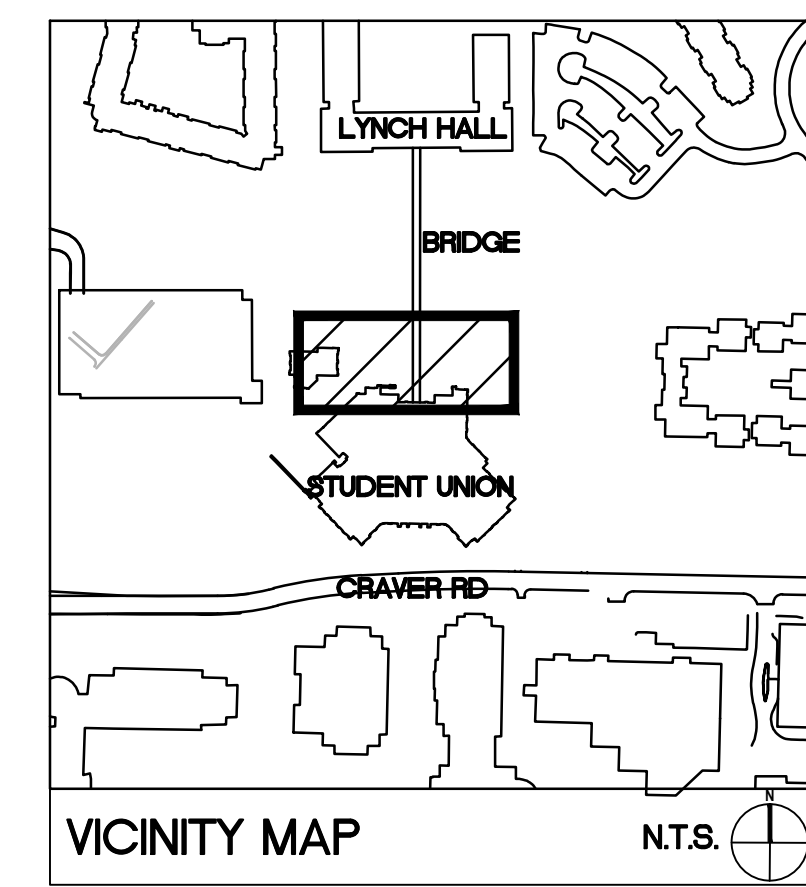
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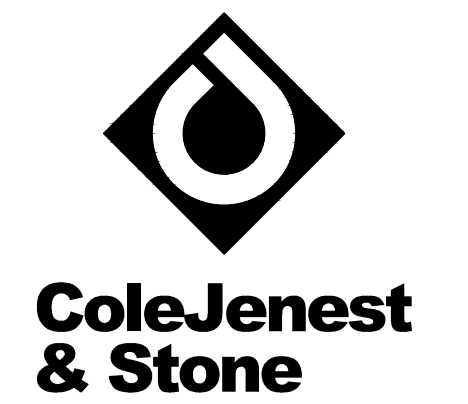
PLAN SCALE: 1" = 20' 2



ENLARGEMENT SCALE: 1" = 10' 1



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 url# www.colejeneststone.com

LEGEND

SYMBOL	DESCRIPTION	SCALE
[Symbol: Dotted pattern]	PAVERS TO BE REMOVED	-/-
[Symbol: Solid grey fill]	WALL TO BE REMOVED	-/-
[Symbol: Diagonal hatching]	VEGETATION TO BE RELOCATED	-/-
[Symbol: Dashed line]	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: Circle with D]	SIDEWALK DETOUR SIGN	-/-
[Symbol: Stippled pattern]	EXISTING LANDSCAPE	-/-

SEE SHEET C-100 FOR DEMOLITION NOTES

PHASING NOTES:

1. ONLY ONE SIDE OF STAIRWAY TO BE CLOSED AT ANY GIVEN TIME DURING CONSTRUCTION. REMAINING STAIR TO REMAIN OPEN TO PEDESTRIAN TRAFFIC.
2. ALL SIDEWALK CLOSURES SHALL BE ACCOMPANIED WITH A DETOUR SIGN AND ROUTE (SEE PLAN FOR DETAILS).

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CAMPUS CIRCULATION IMPROVEMENTS

SCO ID# 16-14055
 CODE 41526 ITEM 310

STUDENT UNION-DEMOLITION PLAN

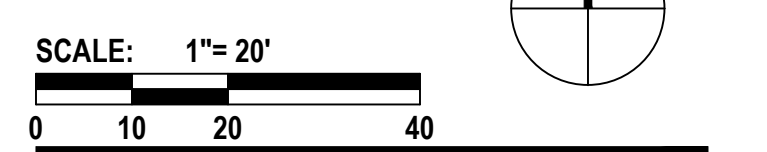
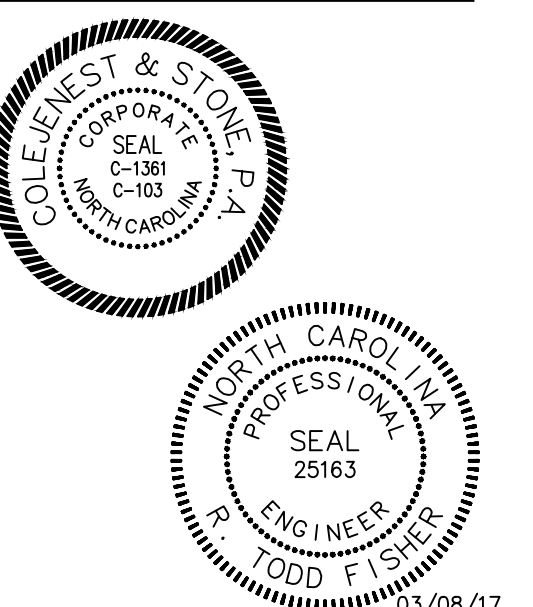
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03/08/2017 - BID SET

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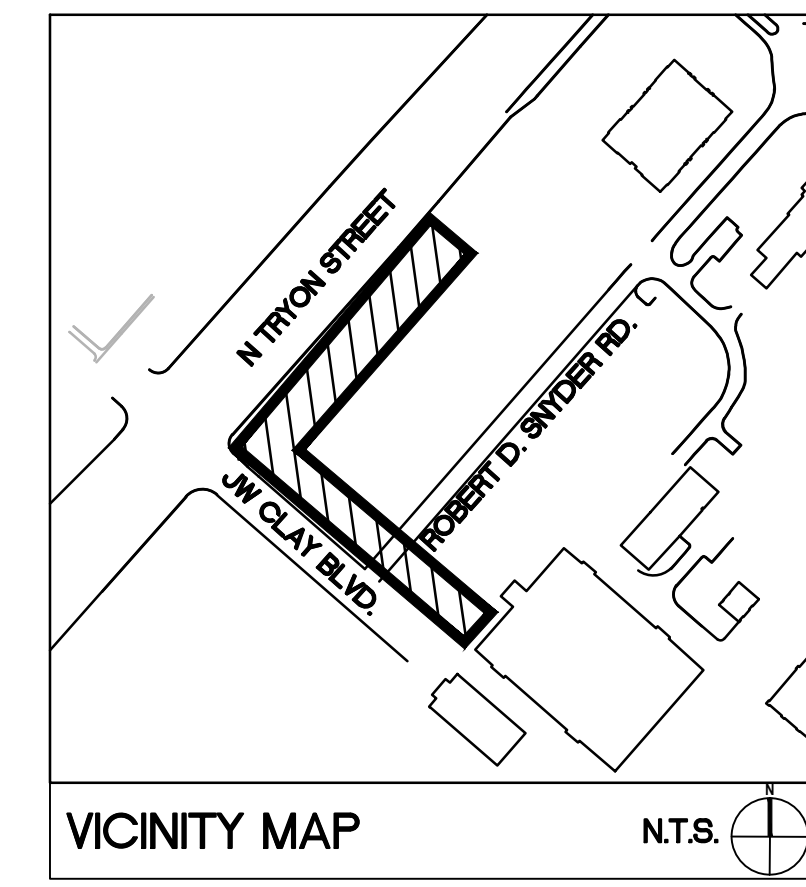
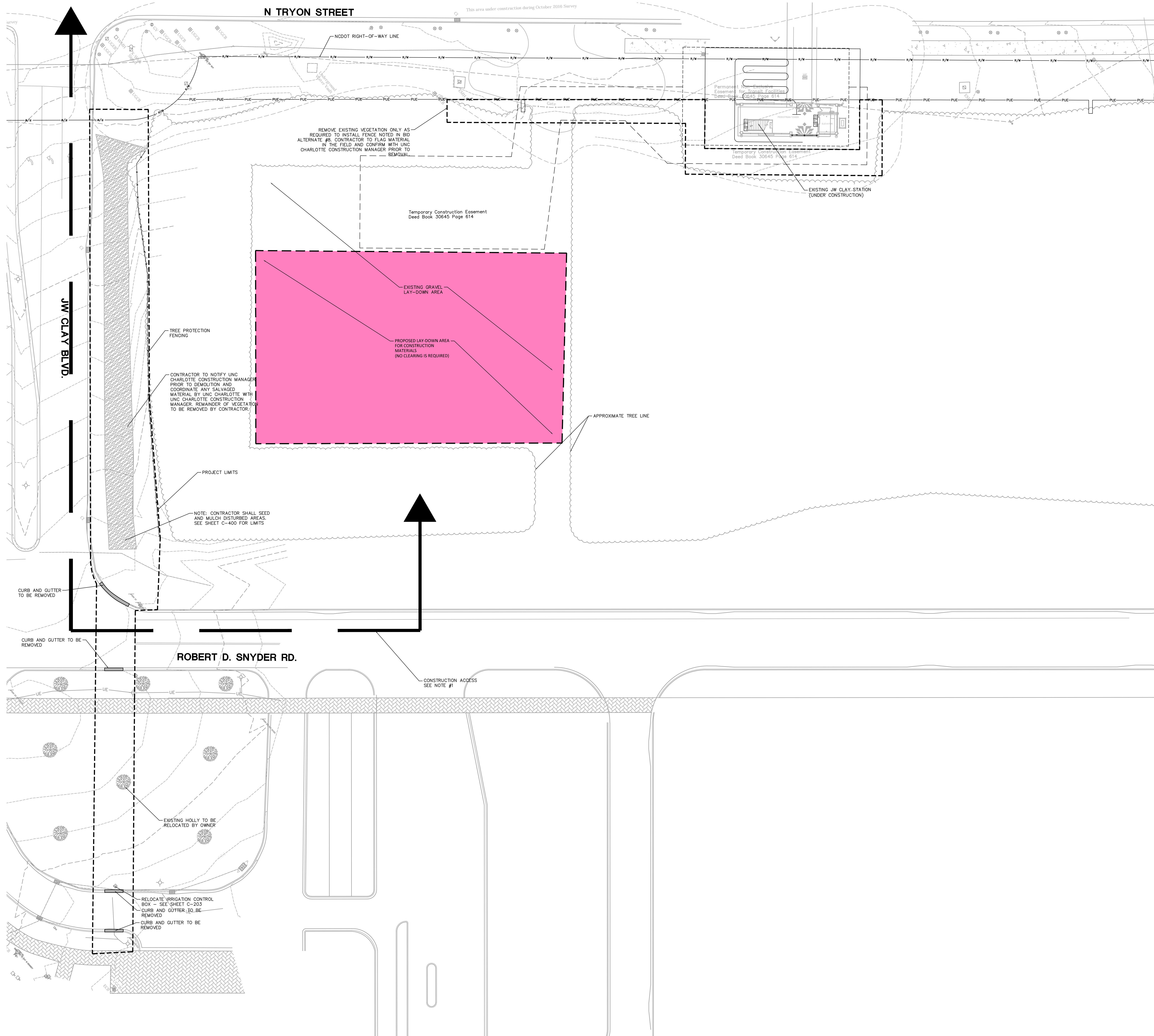


C-102
 (ADD ALTERNATE #2)

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

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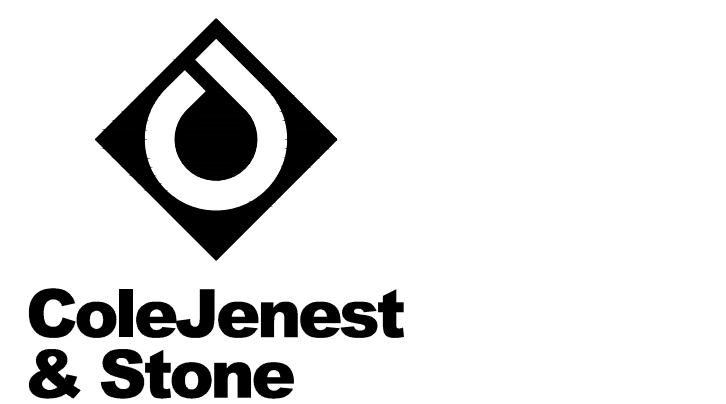


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 NC, 27006 336-998-0218.

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: Dashed line 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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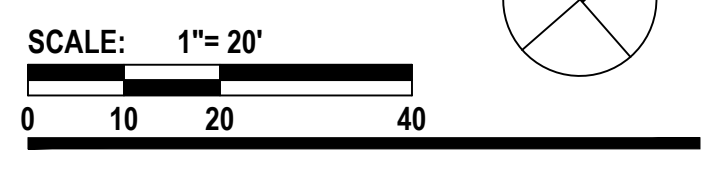
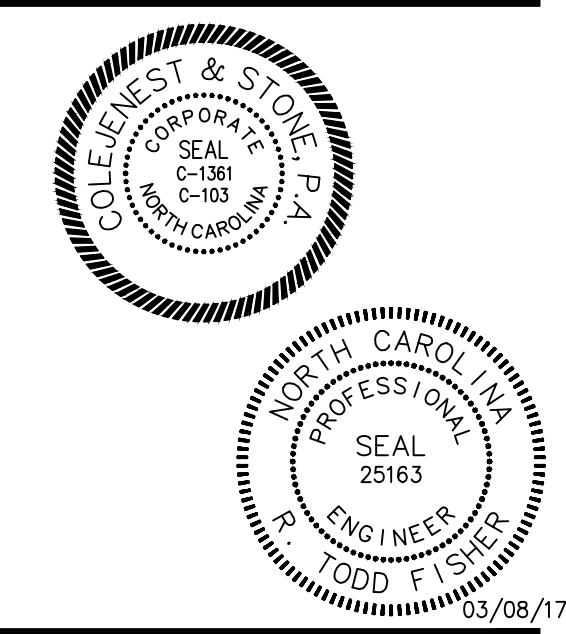
SCO ID# 16-14055
 CODE 41526 ITEM 310

J.W. CLAY STATION DEMOLITION PLAN

Project No.
4496

Issued
 03/08/2017 - BID SET

Revised



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.
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BASE BID
BID ALTERNATE

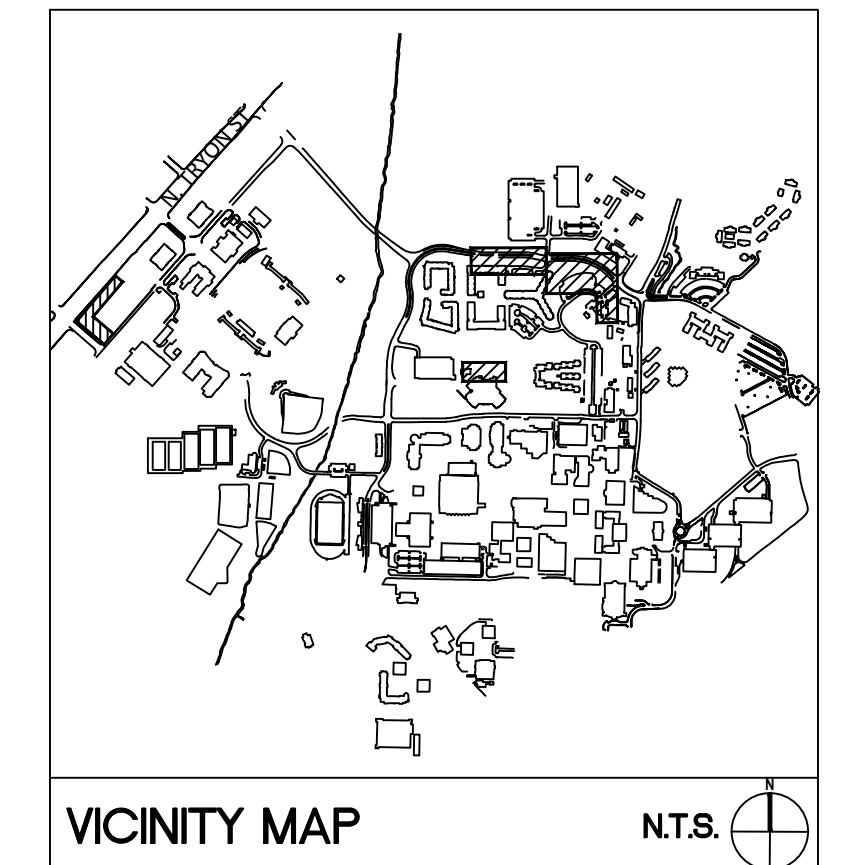
J.W. CLAY STATION IMPROVEMENT AREA
(BASE BID & ALTERNATES #7, #8)

2 CAMERON BLVD. IMPROVEMENT AREA
(ALTERNATE #1)

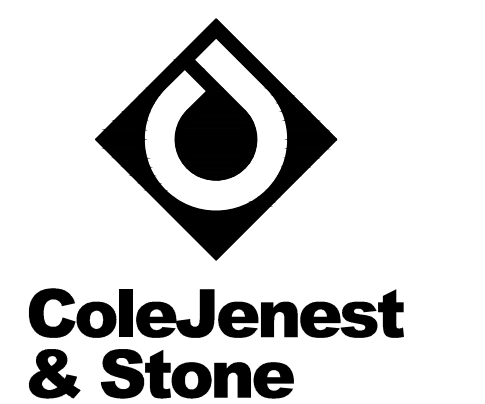
1 MAIN STATION IMPROVEMENT AREA
(BASE BID & ALTERNATES #4, #5, #6)

3 STUDENT UNION IMPROVEMENT AREA
(ALTERNATE #2)

4 PROJECT AREAS:
1) MAIN STATION
2) CAMERON BLVD
3) STUDENT UNION
4) JW CLAY



VICINITY MAP N.T.S.
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CAMPUS CIRCULATION IMPROVEMENTS

SCO ID# 16-14055
CODE 41526 ITEM 310

COVER SHEET

Project No.
4496

Issued
03/08/2017 - BID SET

Revised

SCOPE

BASE BID/ALT.#4
ADD ALT. #1
ADD ALT. #2
BASE BID/ALT. #7,8
BASE BID/ALT. #3,4,5
ADD ALT. #1
ADD ALT. #2
BASE BID/ALT. #7,8
BASE BID/ALT. #4,5
ADD ALT. #1
ADD ALT. #2
BASE BID/ALT. #7,8
C-403
BASE BID/ALT.#4
BASE BID/ALT. #6A/6B
ADD ALT. #1
ADD ALT. #2
ADD ALT. #6C
BASE BID/ALTS.
BASE BID/ALTS.
BASE BID/ALTS.

SHEET INDEX

COMPANY: COLE JENEST & STONE	
SHEET NUMBER	SHEET TITLE
C-000	COVER SHEET
C-001	APPENDIX B
V-100	CAMERON BLVD - EXISTING CONDITIONS
V-101	CAMERON BLVD - EXISTING CONDITIONS
V-102	LOT 11 - EXISTING CONDITIONS
V-103	STUDENT UNION - EXISTING CONDITIONS
V-104	J.W. CLAY - EXISTING CONDITIONS
V-105	MAIN STATION - EXISTING CONDITIONS
C-100	MAIN STATION - DEMOLITION PLAN
C-101	CAMERON BLVD - DEMOLITION PLAN
C-102	STUDENT UNION - DEMOLITION PLAN
C-103	J.W. CLAY - DEMOLITION PLAN
C-200	MAIN STATION - STAKING & MATERIALS PLAN
C-201	CAMERON BLVD - STAKING & MATERIALS PLAN
C-202	STUDENT UNION - STAKING & MATERIALS PLAN
C-203	J.W. CLAY - STAKING & MATERIALS PLAN
C-400	MAIN STATION - GRADING, DRAINAGE AND EROSION CONTROL PLAN
C-401	CAMERON BLVD - GRADING, DRAINAGE AND EROSION CONTROL PLAN
C-402	STUDENT UNION - GRADING, DRAINAGE AND EROSION CONTROL PLAN
C-403	J.W. CLAY - GRADING, DRAINAGE, AND EROSION CONTROL PLAN
C-500	MAIN STATION - UTILITY PLAN
C-700	MAIN STATION - PLANTING PLAN
C-701	CAMERON BLVD - PLANTING PLAN
C-702	STUDENT UNION - PLANTING PLAN
C-703	J.W. CLAY - PLANTING PLAN
C-800	SITE DETAILS
C-801	SITE DETAILS
C-802	SITE DETAILS

BASE BID/ALT.#5
ADD ALT. #5

COMPANY: ALTA PLANNING AND DESIGN	
SHEET NUMBER	SHEET TITLE
C-900	MAIN STATION - SIGNAGE AND PAVEMENT MARKING PLAN
C-901	MAIN STATION - SIGNAL PLAN

BASE BID/ALTS.
E-100
E-101
E-102
E-103
E-200
E-201
E-202

COMPANY: ELM ENGINEERING	
SHEET NUMBER	SHEET TITLE
E-100	ELECTRICAL COVER SHEET
E-101	EXISTING ELECTRICAL POWER RISER DIAGRAM
E-102	ELECTRICAL DETAILS
E-103	PANELBOARD SCHEDULE AND DETAILS
E-200	MAIN STATION - SITE PLAN
E-201	CAMERON BLVD - SITE PLAN
E-202	STUDENT UNION - SITE PLAN

BASE BID/ALTS.
I-100
I-101

COMPANY: IRRIGATION INNOVATIONS	
SHEET NUMBER	SHEET TITLE
I-100	MAIN STATION - IRRIGATION PLAN
I-101	MAIN STATION - IRRIGATION DETAILS

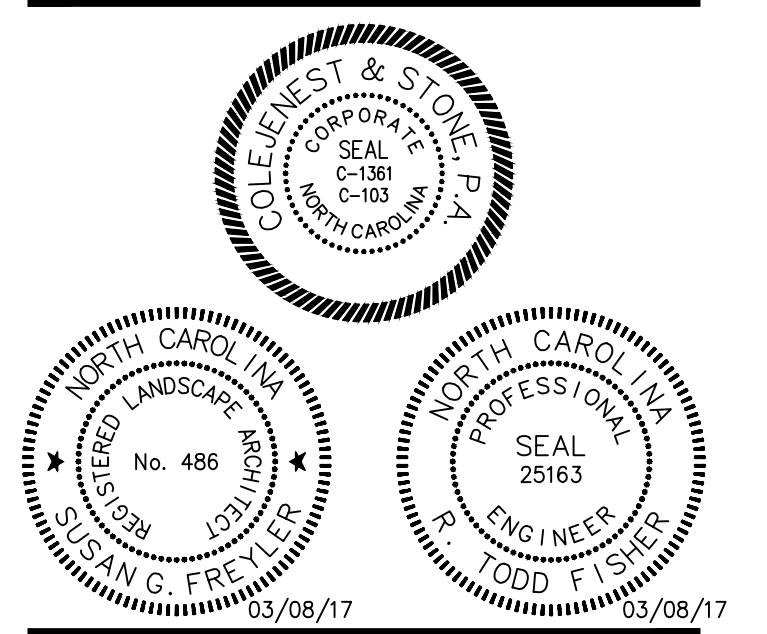
ELM ENGINEERING
900 CENTER PARK DR.
CHARLOTTE, NC 28217
(704) 335-0396

IRRIGATION INNOVATIONS
4218 CAHNNAS WAY
WAXHAW, NC 28173
(704) 256-4873

ALTA PLANNING & DESIGN
108 S MAIN ST
DAVIDSON, NC 28036
(704) 255-6200



- CONTRACTOR IS FULLY RESPONSIBLE FOR CONTACTING APPROPRIATE PARTIES AND ASSURING THAT EXISTING UTILITIES ARE LOCATED PRIOR TO CONSTRUCTION.
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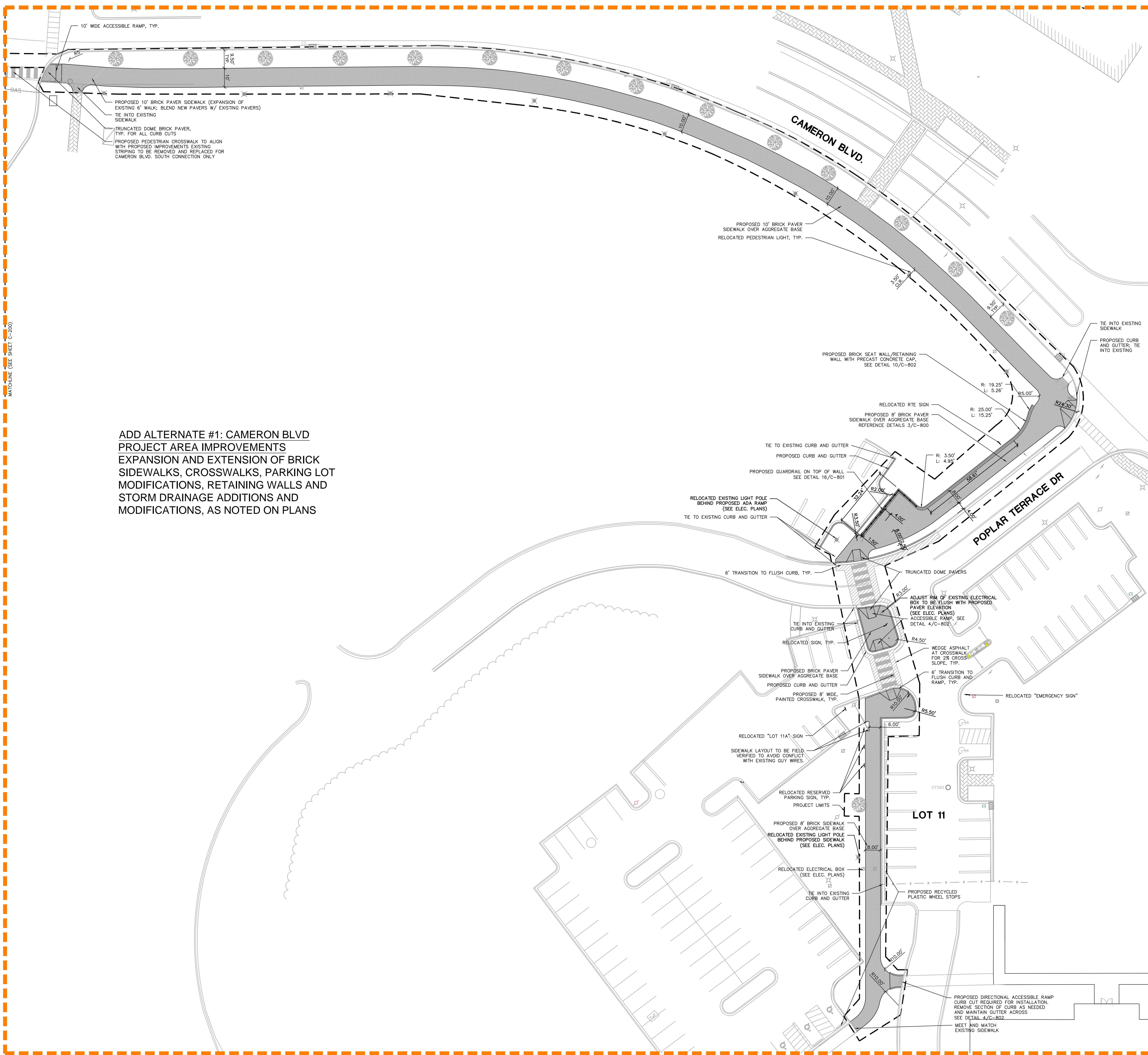


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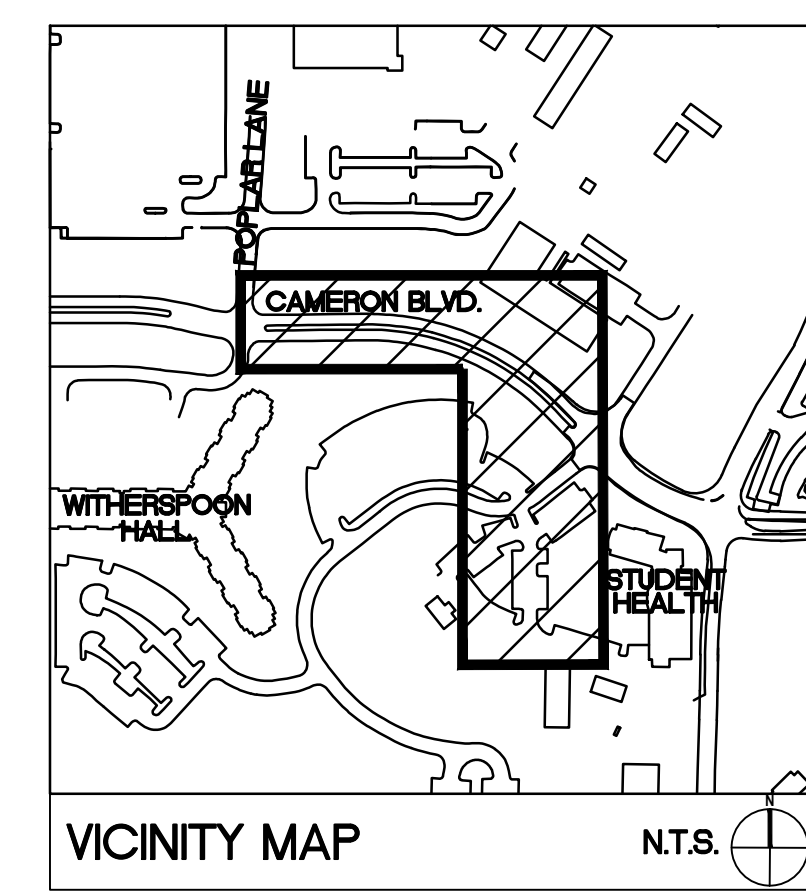
C-000

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MATCHLINE (SEE SHEET C-200)



ADD ALTERNATE #1: CAMERON BLVD PROJECT AREA IMPROVEMENTS
 EXPANSION AND EXTENSION OF BRICK SIDEWALKS, CROSSWALKS, PARKING LOT MODIFICATIONS, RETAINING WALLS AND STORM DRAINAGE ADDITIONS AND MODIFICATIONS, AS NOTED ON PLANS



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SYMBOL	DESCRIPTION	DETAIL
[Pattern]	PROPOSED BRICK SIDEWALK	1-4/C-800
[Pattern]	PROPOSED ACCESSIBLE RAMP	4/C-802
[Pattern]	PROPOSED 1'-6" CURB & GUTTER	10/C-800
[Symbol]	EXISTING PEDESTRIAN LIGHTING	-/-
[Symbol]	RELOCATED PEDESTRIAN LIGHTING	-/-
[Symbol]	PROJECT LIMIT	-/-
[Pattern]	PROPOSED ASPHALT PATCH	3/C-801

SEE SHEET C-200 FOR STAKING NOTES



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SCO ID# 16-14055
 CODE 41526 ITEM 310

CAMERON BLVD - STAKING AND MATERIALS PLAN

Project No.

4496

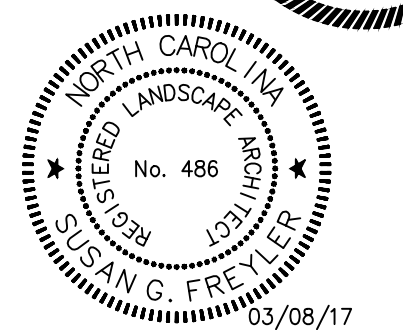
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ALT #1

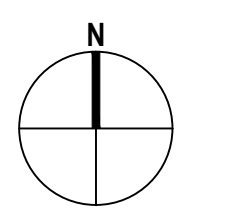
ALL WORK SHOWN ON THIS PLAN INCLUDING:
 DEMOLITION - C-101
 GRADING & DRAINAGE - C-401
 PLANTING - C-701
 ELECTRICAL - E-201



03/08/17



SCALE: 1"= 20'
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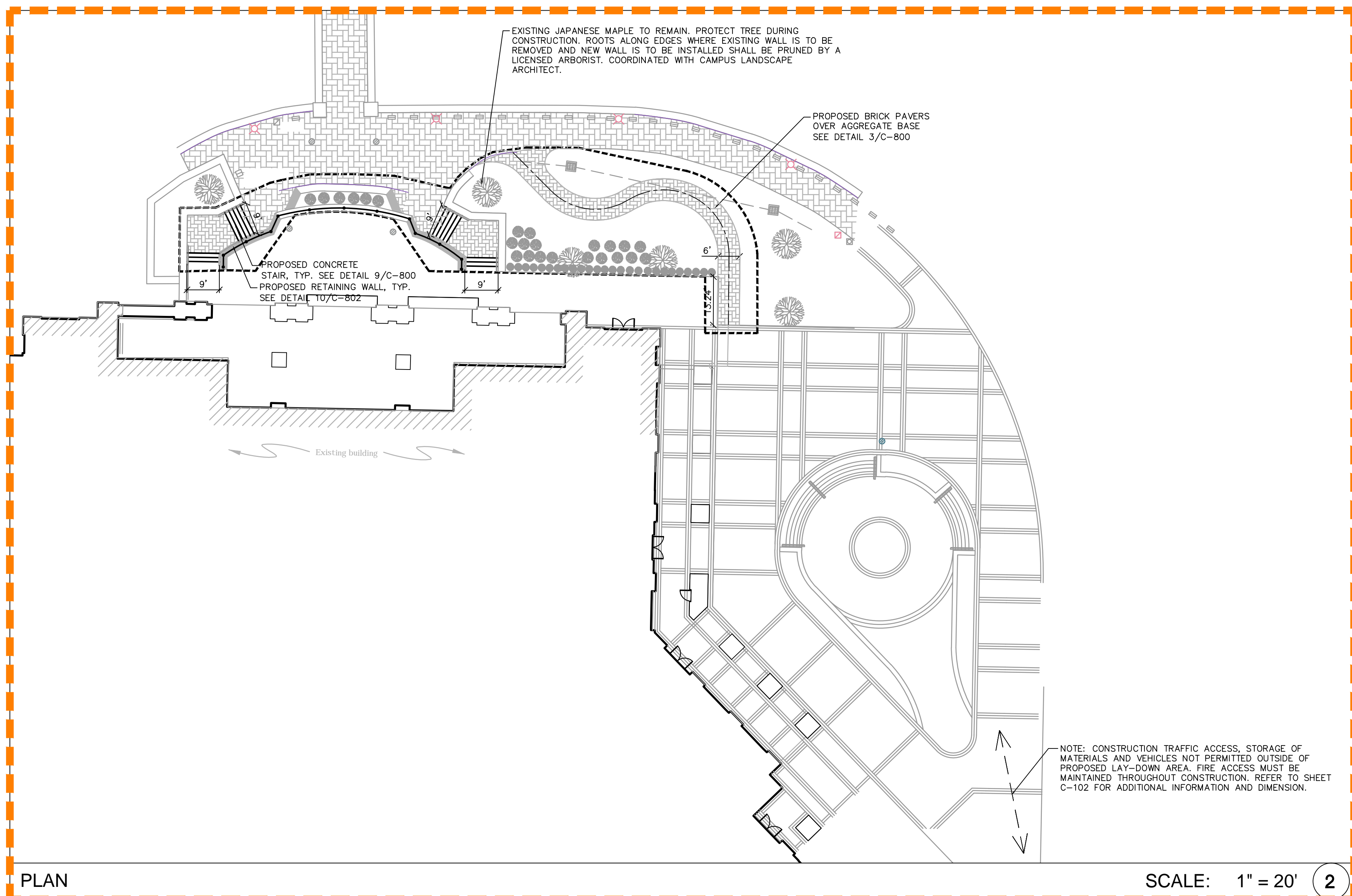


C-201 (ADD ALTERNATE #1)

- CONTRACTOR IS FULLY RESPONSIBLE FOR CONTACTING APPROPRIATE PARTIES AND ASSURING THAT EXISTING UTILITIES ARE LOCATED PRIOR TO CONSTRUCTION.
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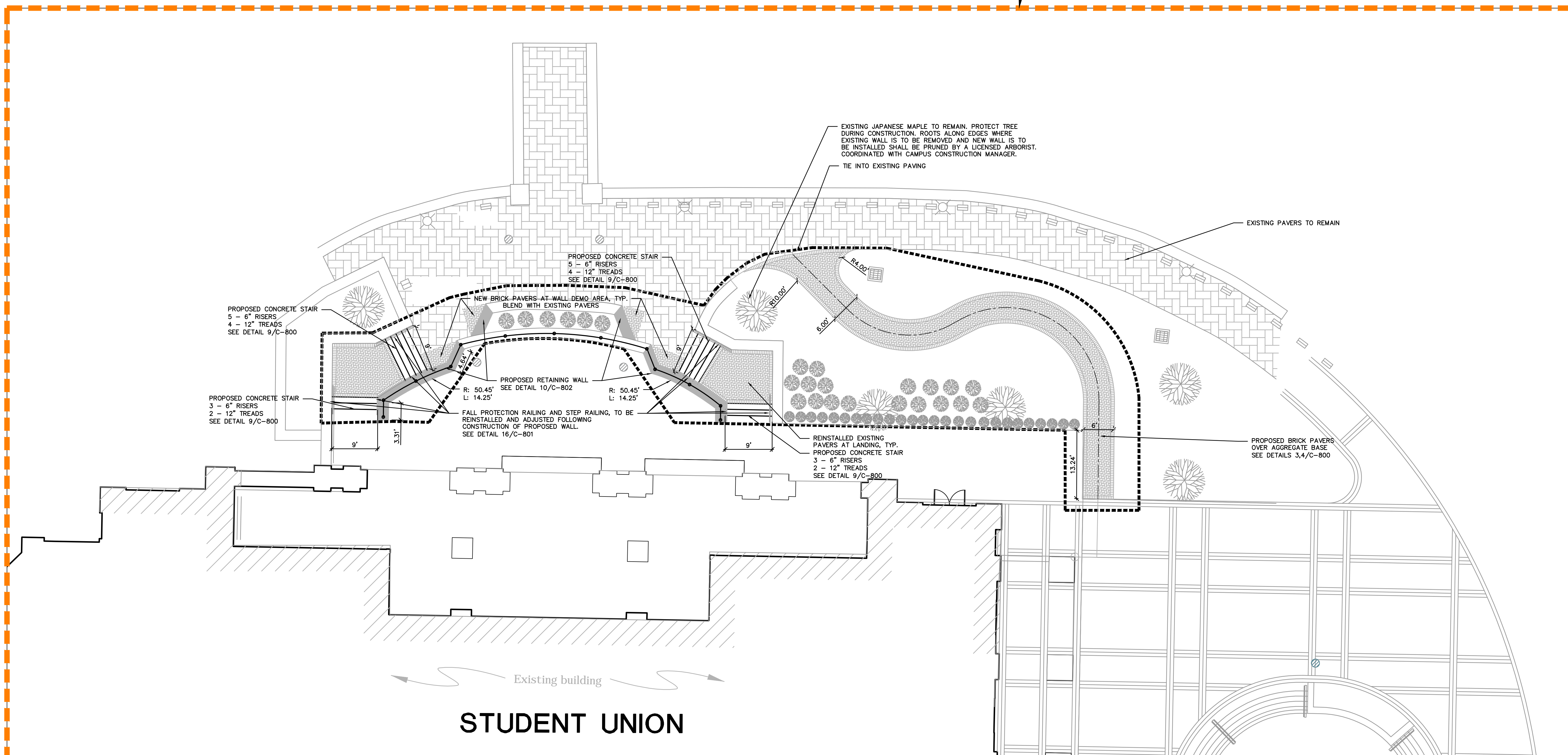
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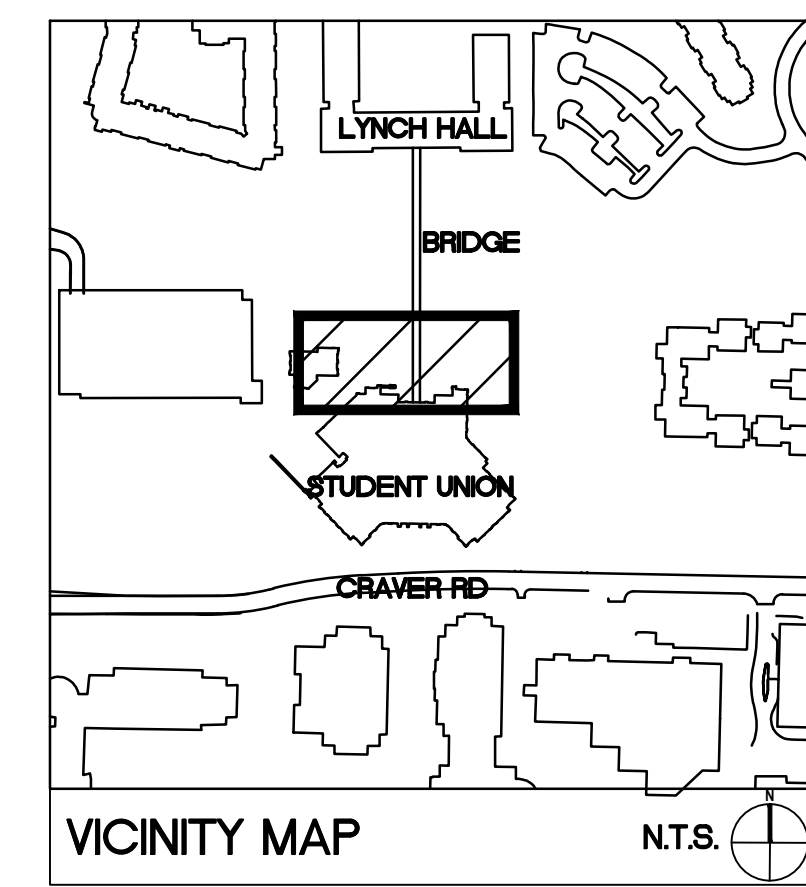
PLAN

ALT #2

ADD ALTERNATE #2: STUDENT UNION PROJECT AREA IMPROVEMENTS EXPANSION AND EXTENSION OF BRICK SIDEWALKS, STAIRS, RETAINING WALLS AND RAILINGS AS NOTED ON PLANS



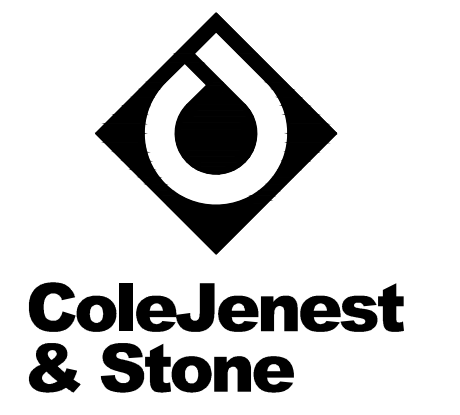
ENLARGEMENT



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SYMBOL	DESCRIPTION	DETAIL
[Pattern]	PROPOSED BRICK SIDEWALK	1-4/C-800
[Pattern]	EXISTING BRICK SIDEWALK	-/-
[Symbol]	PROPOSED LIGHTING	-/-
[Symbol]	PROJECT LIMIT	-/-

SEE SHEET C-200 FOR STAKING NOTES



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 CODE 41526 ITEM 310

STUDENT UNION - STAKING AND MATERIALS PLAN

Project No.

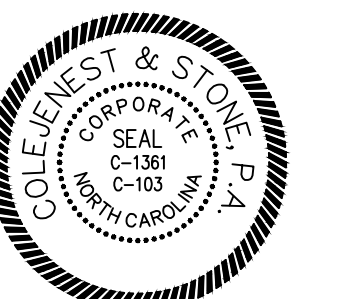
4496

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03/08/2017 - BID SET

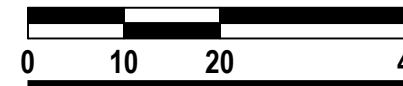
Revised

ADD ALTERNATE #2:
 ALL WORK SHOWN ON THIS PLAN INCLUDING:
 DEMOLITION - C-102
 GRADING & DRAINAGE - C-402
 PLANTING - L-702
 ELECTRICAL - E-202



03/08/17

SCALE: 1" = 20'



C-202
 (ADD ALTERNATE #2)

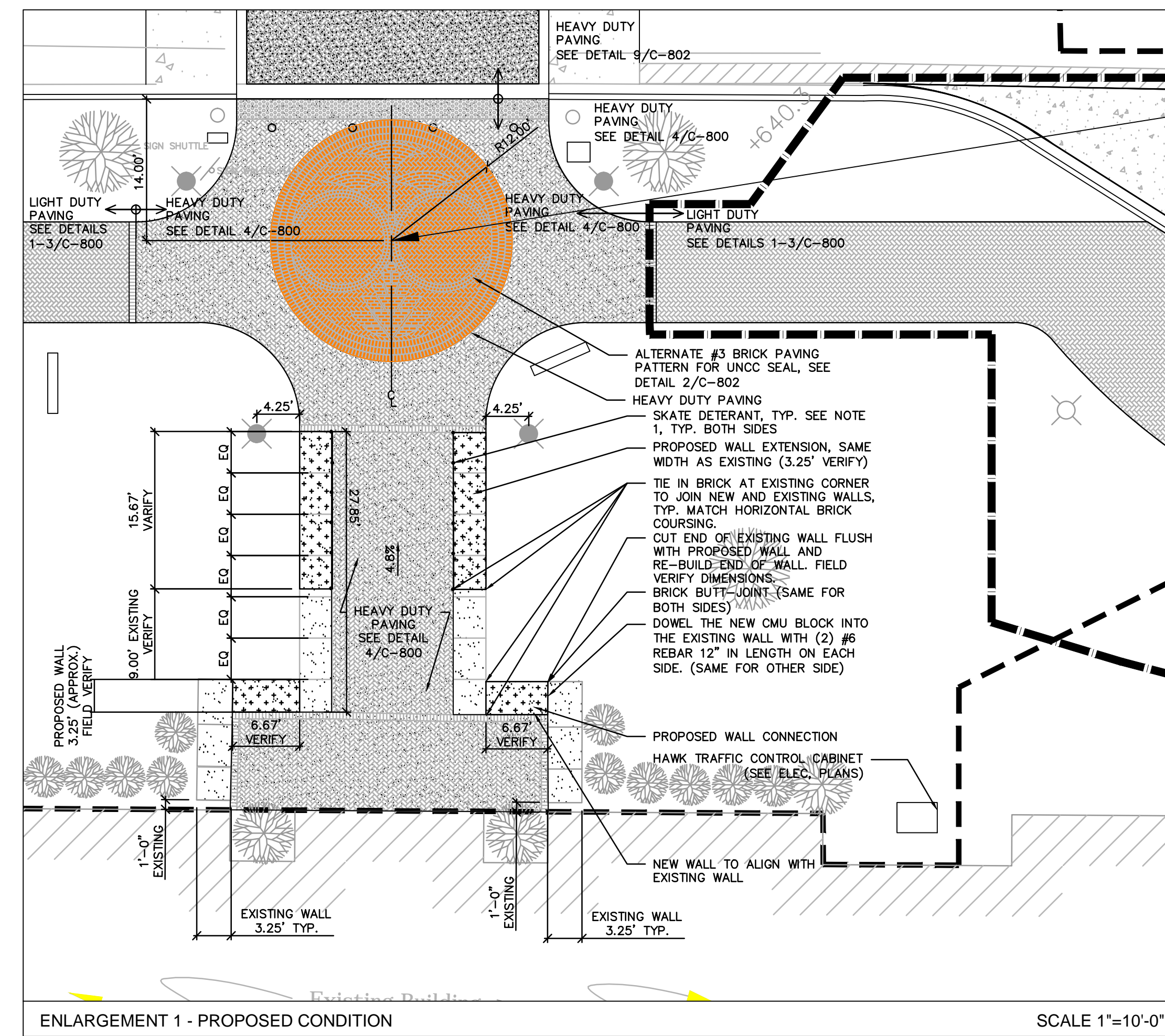
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STAKING AND MATERIALS NOTES

1. ALL DIMENSIONS ARE TO BACK OF CURB, FACE OF BUILDING, OR CENTERLINE UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS ARE AT 90 DEGREES UNLESS OTHERWISE NOTED.
3. ALL BACK OF CURB RADI AT PARKING LOT ISLANDS ARE 4.5- FEET UNLESS OTHERWISE NOTED.
4. PARKING STALL DIMENSIONS ARE 18.0' (TO FACE OF CURB) X 9.0' WIDE UNLESS OTHERWISE NOTED.
5. ALL BACK OF CURB RADI AT ROADWAY INTERSECTIONS SHALL BE 20- FEET UNLESS OTHERWISE NOTED.
6. NOT USED.
7. ANY DISCREPANCIES BETWEEN THE CONTRACT DOCUMENTS AND ACTUAL FIELD CONDITIONS SHALL BE CALLED TO THE ATTENTION OF THE UNC CHARLOTTE CONSTRUCTION MANAGER AND DESIGNER PRIOR TO PROCEEDING WITH THE WORK.
8. THE CONTRACTOR SHALL CONTACT ALL OWNERS OF UTILITIES, EASEMENTS, AND RIGHTS-OF-WAY, PUBLIC AND PRIVATE, PRIOR TO WORKING IN THESE AREAS.
9. ALL ASPHALT PAVING SHALL CONFORM TO THE APPLICABLE PROVISIONS OF THE NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES, LATEST EDITION.
10. CONTRACTOR SHALL FURNISH AND INSTALL ALL PAVEMENT MARKINGS AS SHOWN ON THE PLANS.
11. ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
12. ALL PARKING STALLS SHALL BE CONSTRUCTED PER THE UNC CHARLOTTE CAMPUS STANDARD PARKING SPACE DIMENSIONS AND STRIPING.
13. STOP SIGNS SHALL BE R1-1, 30"x30". SEE SHEET C-900 FOR ADDITIONAL DETAIL.
14. SIGHT TRIANGLES SHOWN ARE THE MINIMUM REQUIRED.
15. NO DEMOLITION LANDFILLS ALLOWED ON SITE.
16. ALL RELOCATED PEDESTRIAN LIGHT POLES, LOCATED ALONG THE PEDESTRIAN SIDEWALKS, SHALL BE INSTALLED 18" CLEAR, MEASURED FROM BASE OF FIXTURE TO EDGE OF PEDESTRIAN SIDEWALK.
17. FOR RELOCATED WALLS HALL SIGN, USE FOOTING DETAIL SIMILAR TO DIRECTIONAL SIGNAGE DETAIL ON SHEET C-900. STAKE IN FIELD, FOR REVIEW BY CONSTRUCTION MANAGER PRIOR TO INSTALLATION.



- NOTES:
1. REMOVE AND REPLACE WITH NEW PRECAST CAP AND SKATE DETERRENTS TO MATCH EXISTING. PLACE +/- 3' O.C. ON RAMP SIDE OF PRECAST CONCRETE CAP. SEE DETAIL.
 2. REMOVE PEDESTRIAN PAVERS AND REPLACE WITH VEHICULAR PAYER.
 3. SEE GRADING PLAN C-400 FOR PAVEMENT AND WALL ELEVATIONS.

ALT #3

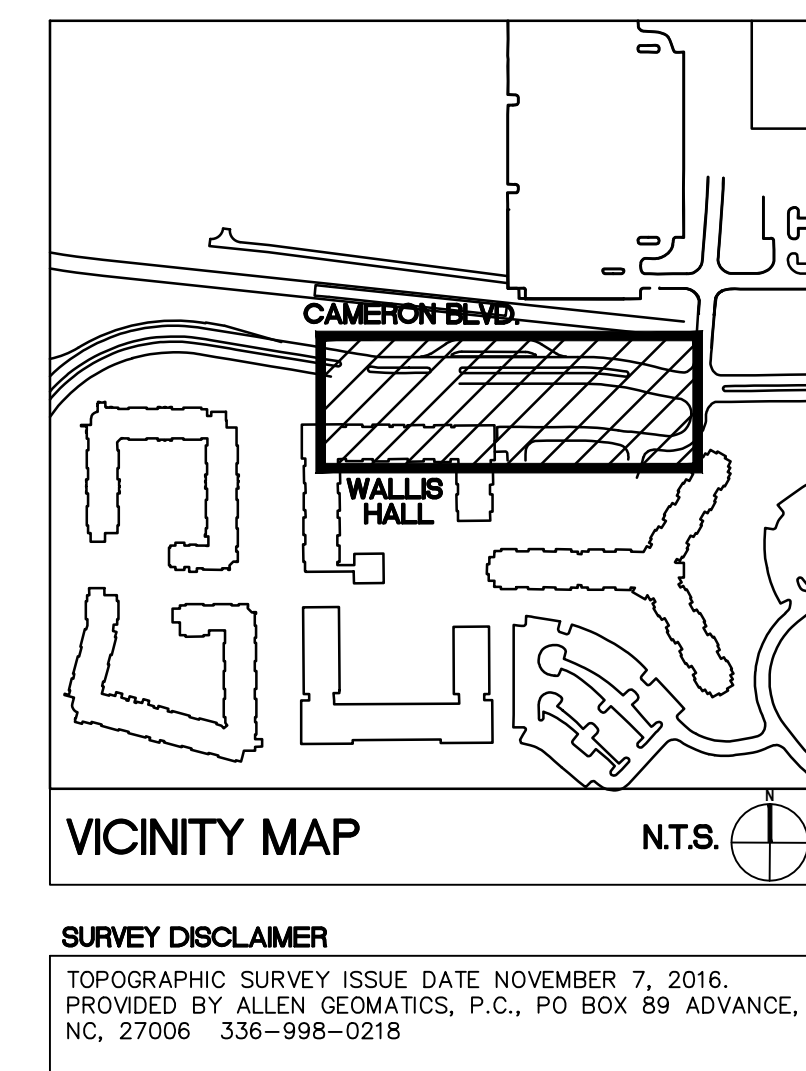
ALTERNATE #3: BRICK SEAL PAVING PATTERN IN SIDEWALK
CONSTRUCTION OF BRICK UNC-CHARLOTTE SEAL PAVING

ALTERNATE #4: ADD BUS DROP-OFF AND WIDEN SIDEWALK AT THE MAIN STATION
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. NOT INCLUDING LANDSCAPE OTHER THAN TREES; LANDSCAPE IS PRICED UNDER ALTERNATE 6B.
SEED

ALSO SEE: IRRIGATION - MAIN STATION
ELECTRICAL - MAIN STATION

ALTERNATE #5: ADD SIGNALIZED INTERSECTION AT THE MAIN STATION
ADD PEDESTRIAN AND TRAFFIC SIGNAL POLES, BASES, ELECTRICAL BOXES AND PANELS, WIRING AND SIGNAL HEADS

ALSO SEE: ELECTRICAL - MAIN STATION
SIGNAL PLAN - MAIN STATION



LEGEND

SYMBOL	DESCRIPTION	DETAIL
[Pattern]	EXISTING BRICK SIDEWALK	-/-
[Pattern]	PROPOSED ACCESSIBLE RAMP	4/C-802
[Pattern]	PROPOSED 1'-6" CURB & GUTTER	10/C-800
[Symbol]	EXISTING PEDESTRIAN LIGHTING	-/-
[Symbol]	RELOCATED PEDESTRIAN LIGHTING	-/-
[Symbol]	PEDESTRIAN SIGNALIZATION	-/-
[Pattern]	PROPOSED CONCRETE PAVING	11/C-800
[Pattern]	PROPOSED ASPHALT PATCH	13/C-801
[Pattern]	LIGHT DUTY BRICK PAVING	4/C-800
[Pattern]	HEAVY DUTY BRICK PAVING	4/C-800
[Symbol]	PROJECT LIMIT	-/-
[Symbol]	ADD ALTERNATE LIMITS	-/-
[Pattern]	PROPOSED HEAVY DUTY CONCRETE PAVING (ADD ALT. #4)	5/C-801
[Pattern]	PROPOSED LIGHT DUTY ASPHALT PAVING	1/C-801
[Symbol]	EXISTING BRICK PAVING TO REMAIN	-/-
[Symbol]	WHEEL STOP	9/C-801

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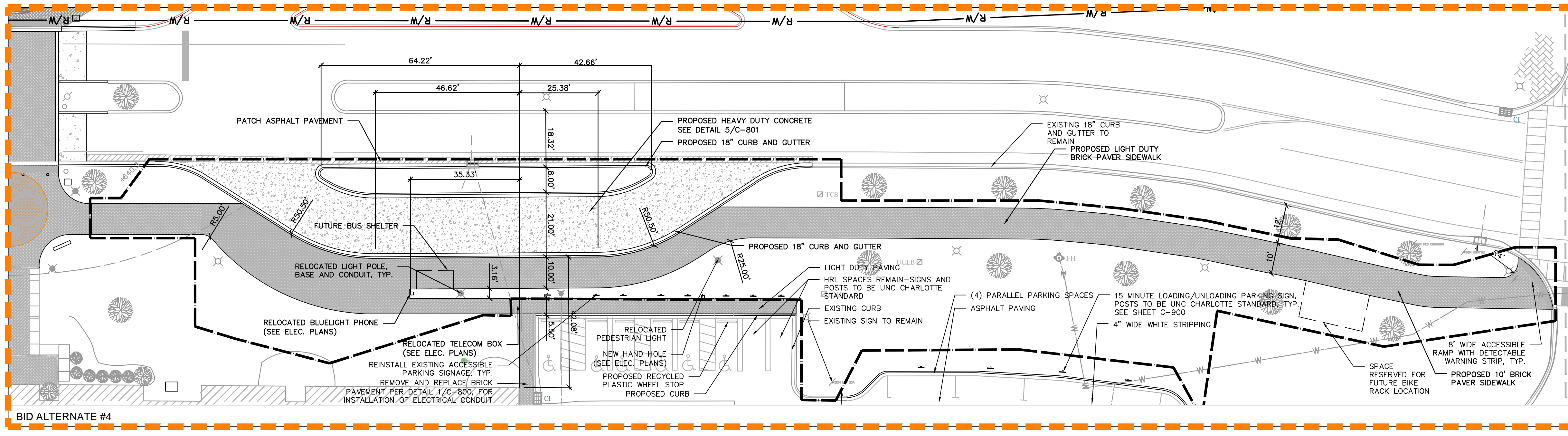
SCO ID# 16-14055
CODE 41526 ITEM 310

MAIN STATION - STAKING AND MATERIALS PLAN

Project No. 4496

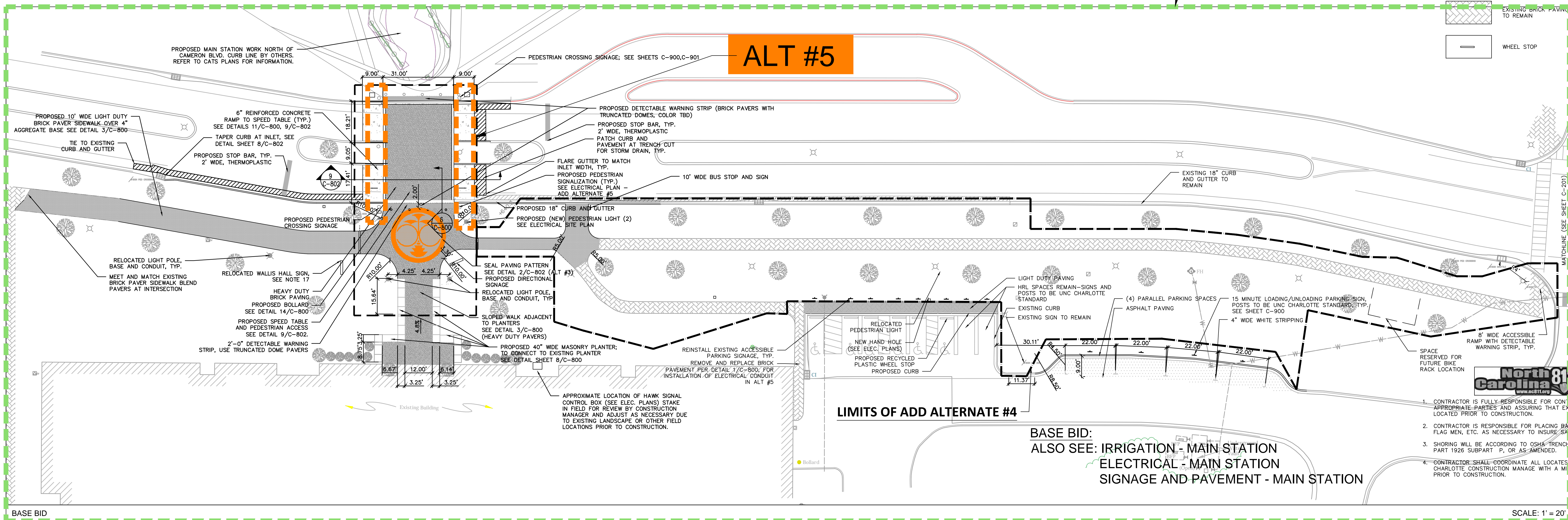
Issued 03/08/2017 - BID SET

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**ALT #4
BASE BID**

- ADD ALTERNATE #3 - BRICK SEAL PAVING PATTERN IN WALK
- WORK TO INCLUDE THE CONSTRUCTION OF THE BRICK UNCC SEAL PAVING PATTERN AT WALLIS HALL.
- ADD ALTERNATE #4 - BUS DROP-OFF LANE AND SIDEWALK EXPANSION EAST OF WALLIS HALL
- 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 - SIGNALIZED PEDESTRIAN CROSSING
- WORK TO INCLUDE ADDING THE PEDESTRIAN AND TRAFFIC SIGNAL POLES, BASES, ELECTRICAL BOXES, WIRING AND SIGNAL HEADS. THE CONDUIT FOR THE WIRING (INCLUDING THE CAPS FOR THE CONDUIT) WILL BE INCLUDED IN THE BASE BID.



ALT #5

LIMITS OF ADD ALTERNATE #4

BASE BID:
ALSO SEE: IRRIGATION - MAIN STATION
ELECTRICAL - MAIN STATION
SIGNAGE AND PAVEMENT - MAIN STATION

Professional Engineer Seal for ColeJenest & Stone, P.A., No. 486, State of North Carolina, expires 12/31/17.

SCALE: 1" = 20'

C-200
(BASE BID/ALT #3,4,5)

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PLANT SCHEDULE BASE BID

QUANTITY	PROPOSED PLANT TYPE	PROPOSED PLANT SIZE	PLANT SPACING
5,259 SQ. FT.	SEED (SEE SPECIFICATIONS)	-	-

PLANT SCHEDULE ALTERNATE #6A

QUANTITY	PROPOSED PLANT TYPE	PROPOSED PLANT SIZE	PLANT SPACING
2	LIVE OAK	4" CAL.	AS SHOWN
2	CAMELLIA 'MAGNOLIAEFLORA'	36"-48" HT.	AS SHOWN
50	LEUCOTHOE 'RAINBOW'	18"-24" SPR.	AS SHOWN
160	'WHITE PEARL' LENTEN ROSE	8"-12" HT.	AS SHOWN
5,259 SQ. FT.	SOD (SEE SPECIFICATIONS)	-	-

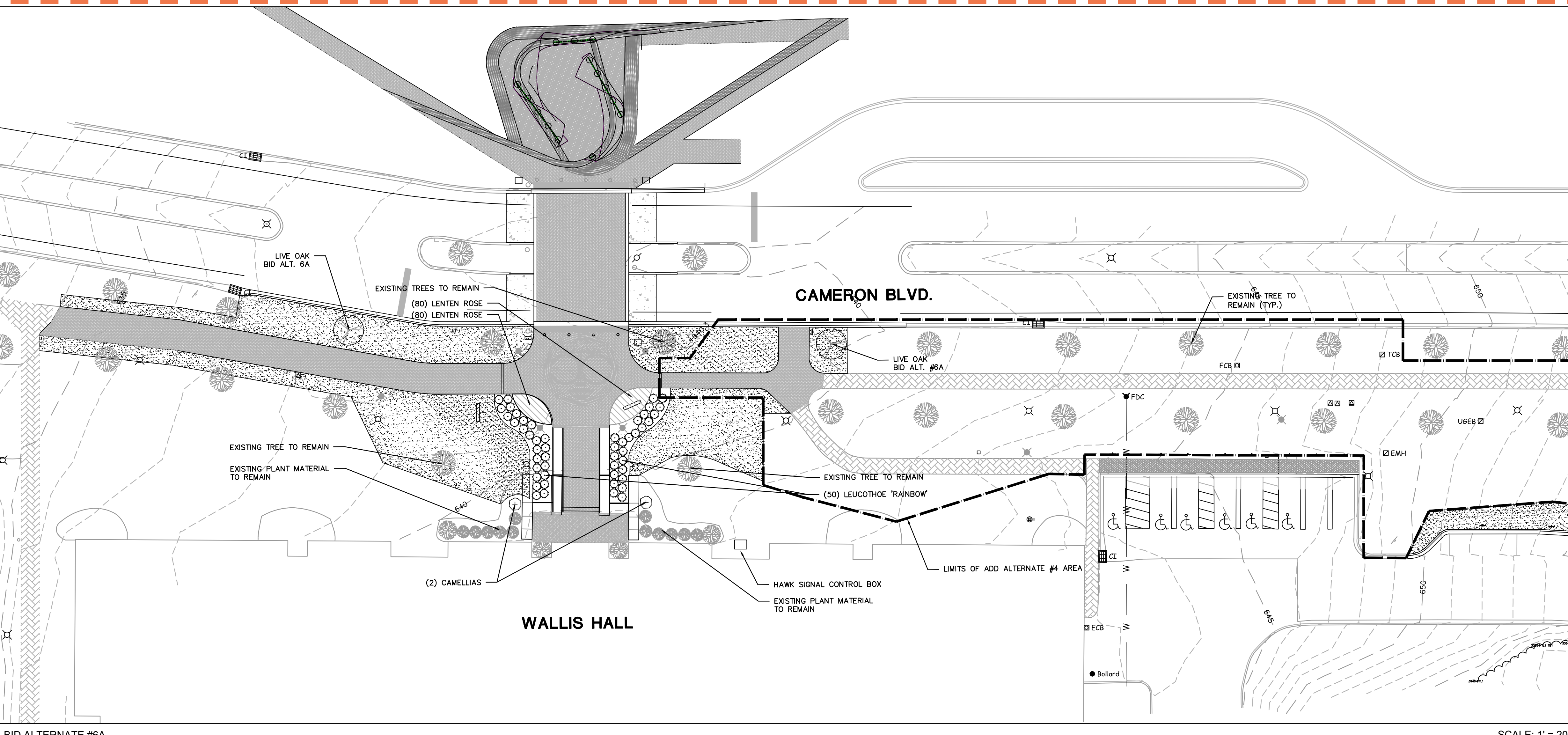
PLANT SCHEDULE ALTERNATE #6B

QUANTITY	PROPOSED PLANT TYPE	PROPOSED PLANT SIZE	PLANT SPACING
5	'WIRT L. WNN' HOLLY	7"-8" HT.	AS SHOWN
3	LIVE OAK	4" CAL.	AS SHOWN
2	CAMELLIA 'MAGNOLIAEFLORA'	36"-48" HT.	AS SHOWN
50	LEUCOTHOE 'RAINBOW'	18"-24" SPR.	AS SHOWN
160	'WHITE PEARL' LENTEN ROSE	8"-12" HT.	AS SHOWN
364	LIRIOPE SPICATA	8"-12" HT.	AS SHOWN
9,857 SQ. FT.	SOD (SEE SPECIFICATIONS)	-	-

ADD ALT #6A

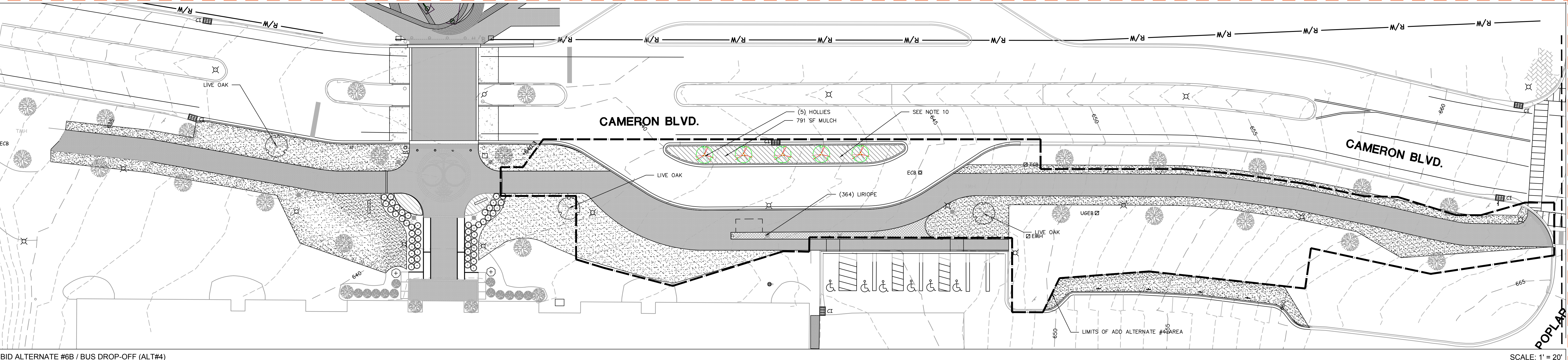
ADD ALT #6B

BASE BID



BID ALTERNATE #6A

SCALE: 1" = 20'



BID ALTERNATE #6B / BUS DROP-OFF (ALT#4)

SCALE: 1" = 20'

BASE BID: DOES NOT INCLUDE ANY PLANT MATERIAL OTHER THAN SEEDING/MULCHING DISTURBED AREAS

BASE BID

PLANTING NOTES

- SIZE AND GRADING STANDARDS OF PLANT MATERIAL SHALL CONFORM TO THE LATEST EDITION OF "USA STANDARDS FOR NURSERY STOCK," BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC.
- HEIGHT AND WIDTH SPECIFICATIONS INDICATED ON PLAN SHALL TAKE PRECEDENCE OVER CONTAINER SIZE AND CALIPER.
- CONTRACTOR SHALL MULCH ALL SHRUB BEDS WITH 4" AGED SHREDDED HARDWOOD BARK. CONTRACTOR SHALL MULCH ALL ANNUAL/PERENNIAL BEDS WITH 1" PINE BARK FINES.
- ALL DISTURBED AREAS NOT OTHERWISE PLANTED SHALL BE SEED BY THE CONTRACTOR (BASE BID) OR SODDED BY THE CONTRACTOR (BID ALT 6A/6B).
- CONTRACTOR SHALL REMOVE ALL HARD LUMPS OF CLAY, STONES OVER 1" IN DIAMETER, AND ALL CONSTRUCTION DEBRIS INCLUDING GRAVEL, ROOTS, LIMBS AND OTHER DELETERIOUS MATTER WHICH WOULD BE HARMFUL, OR PREVENT PROPER ESTABLISHMENT AND/OR MAINTENANCE OF LAWN AND PLANTING AREAS.
- IN AREAS WHERE CONSTRUCTION GRAVEL IS EMBEDDED IN THE SOIL, CONTRACTOR SHALL REMOVE CONTAMINATED SOIL TO A DEPTH OF 18" AND FILL WITH CLEAN TOPSOIL. CONTRACTOR SHALL IMPORT TOPSOIL AT NO CHARGE TO OWNER IF REQUIRED TO FILL THESE EXCAVATIONS.
- CONTRACTOR SHALL RESOD LAWN AREAS DAMAGED DUE TO PLANT MATERIAL INSTALLATION.
- ALL STRAPPING AND TOP 2/3 OF WIRE BASKET SHALL BE CUT AWAY AND REMOVED BY THE CONTRACTOR FROM ROOT BALL PRIOR TO BACKFILLING PLANTING PIT. CONTRACTOR SHALL REMOVE TOP 1/3 OF THE BURLAP FROM ROOT BALL.
- 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 MIX STANDARDS FOR TREES, INCLUDE IN BASE BID.
- LARGE MATURING TREES SHALL BE A MINIMUM 25 TO 30 FEET FROM OVERHEAD DISTRIBUTION OR TRANSMISSION LINES. IF TREES CONFLICT WITH POWER LINES OR SIGNS, CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT TO RESOLVE BEFORE PLANTING.
- MINIMUM TREE SIZE AT PLANTING SHALL BE 3 INCH CALIPER FOR LARGE MATURING TREES AND 2 INCH CALIPER FOR SMALL MATURING TREES. ALL MULTI-STEM PLANTS SHALL BE TREE FORM, MAXIMUM THREE TO FIVE TRUNKS, AND A MINIMUM EIGHT FEET TALL.
- INSTALLER SHALL BE RESPONSIBLE TO REPAIR OR REPLACE PLANTINGS THAT FAIL IN MATERIALS, WORKMANSHIP, OR GROWTH WITHIN SPECIFIED WARRANTY PERIOD (ONE YEAR FROM DATE OF FINAL ACCEPTANCE BY OWNER).
- FOR SEEDED AREAS, AN ACCEPTABLE LAWN AT THE END OF THE MAINTENANCE PERIOD SHALL CONSIST OF A HEALTHY, UNIFORM, CLOSE STAND OF GRASS, FREE OF WEEDS AND SURFACE IRREGULARITIES, WITH TOTAL GRASS COVERAGE EXCEEDING 80 PERCENT OVER ANY 10 SQ. FT. AND BARE SPOTS NOT EXCEEDING 5 BY 5 INCHES, WITH AT LEAST 80% OF THE TOTAL GRASS COVERAGE CONSISTING OF THE SPECIFIED GRASS SPECIES.
- ANY AND ALL DAMAGE TO EXISTING IRRIGATION SYSTEM IS THE CONTRACTOR'S RESPONSIBILITY TO REPAIR. CONTRACTOR TO COORDINATE WITH CONSTRUCTION MANAGER TO ENSURE IRRIGATION TEAM INSPECTS THE REPAIR WORK BEFORE IT IS COVERED UP.

TREE PROTECTION NOTES

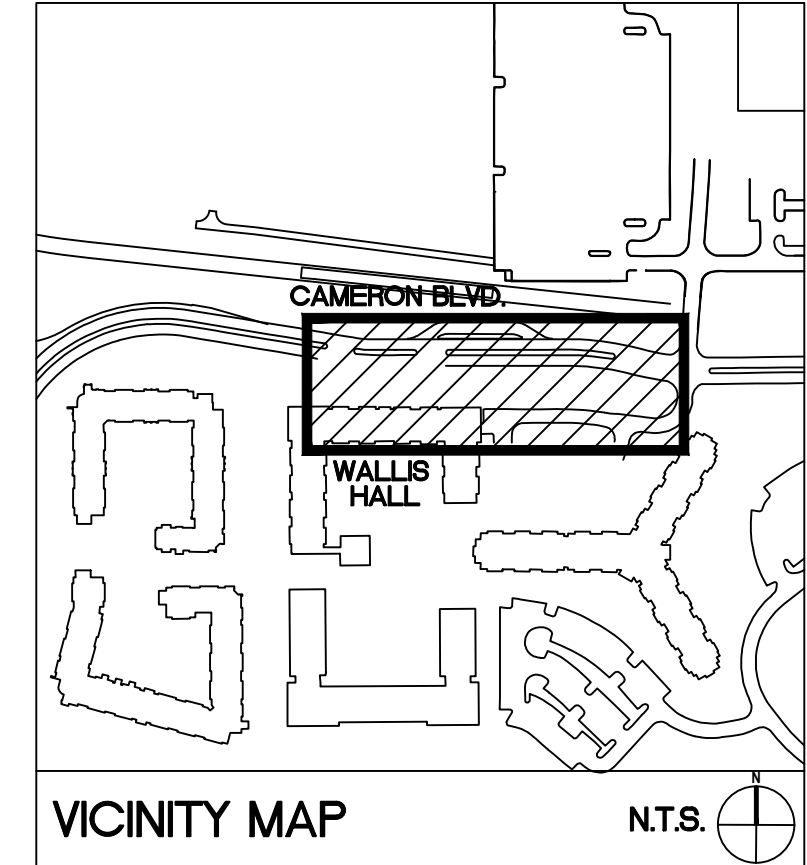
- TREE PROTECTION FENCING MUST BE INSTALLED BEFORE ANY DEMOLITION, CLEARING OR GRADING BEGINS, AND NOT REMOVED UNTIL FINAL INSPECTION.
- THE TREE PROTECTION FENCE SHALL BE LOCATED ALONG THE PERIMETER OF THE TREE SAVE AREA (DRAIN LINE PLUS 5 FEET). TREE PROTECTION FENCING FOR A FOREST CANOPY STAND AREA IS TO BE LOCATED ALONG THE PERIMETER OF THE TREE SAVE AREA AROUND THE FOREST EDGE. TREE PROTECTION FENCING SHALL CONSIST OF ORANGE SAFETY FENCING OR A COMBINATION OF ORANGE SAFETY FENCING WITH SILT FENCING AT A MINIMUM OF 4 FEET IN HEIGHT ON METAL OR WOOD POSTS.
- NO SOIL DISTURBANCE OR CONSTRUCTION, STOCK PILING OF SOIL OR OTHER CONSTRUCTION MATERIAL, VEHICULAR TRAFFIC, OR STORAGE OF EQUIPMENT AND MATERIALS ARE ALLOWED WITHIN THE TREE SAVE AREA.
- NO ROPES, SIGNS, WIRES, UNPROTECTED ELECTRICAL INSTALLATION OR OTHER DEVICE OR MATERIAL, SHALL BE SECURED OR FASTENED AROUND OR THROUGH A TREE OR SHRUB.
- ALL PROTECTIVE MEASURES SHALL BE MAINTAINED THROUGHOUT THE LAND DISTURBING AND CONSTRUCTION PROCESS, AND SHALL NOT BE REMOVED UNTIL FINAL LANDSCAPING IS INSTALLED.

LEGEND

SYMBOL	DETAIL
(Wavy line symbol)	EXISTING TREELINE --/
(Dashed wavy line symbol)	PROPOSED TREELINE --/
(Circle with cross symbol)	EXISTING TREE --/
(Circle with dot symbol)	PROPOSED TREE 17/C-801
(Circle with cross-hatch symbol)	PROPOSED SHRUBS 17/C-801
(Stippled area symbol)	PROPOSED GROUNDCOVER --/
(Dotted area symbol)	PROPOSED SOD --/
(Square with dot symbol)	PROPOSED LIGHT FIXTURE SEE ELECTRICAL PLAN --/

ADD ALT #6A

ADD ALT #6B



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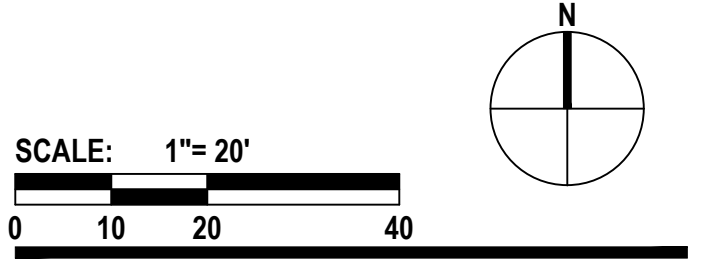
CAMPUS CIRCULATION IMPROVEMENTS

SCO ID# 16-14055
 CODE 41526 ITEM 310

MAIN STATION - PLANTING PLAN (WALLIS HALL)

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

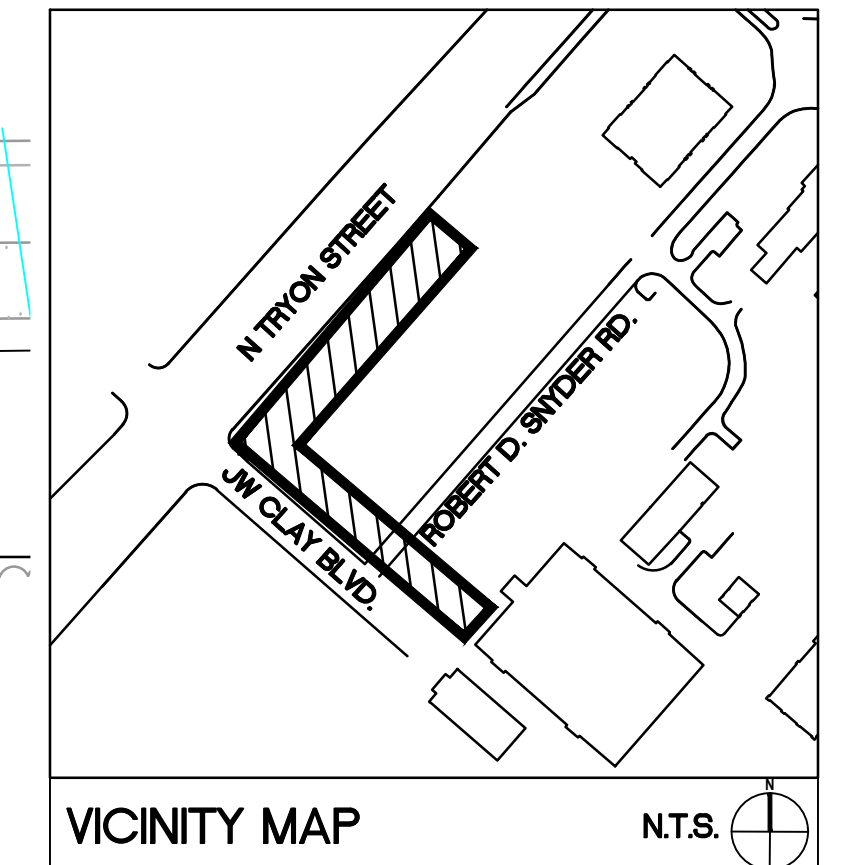
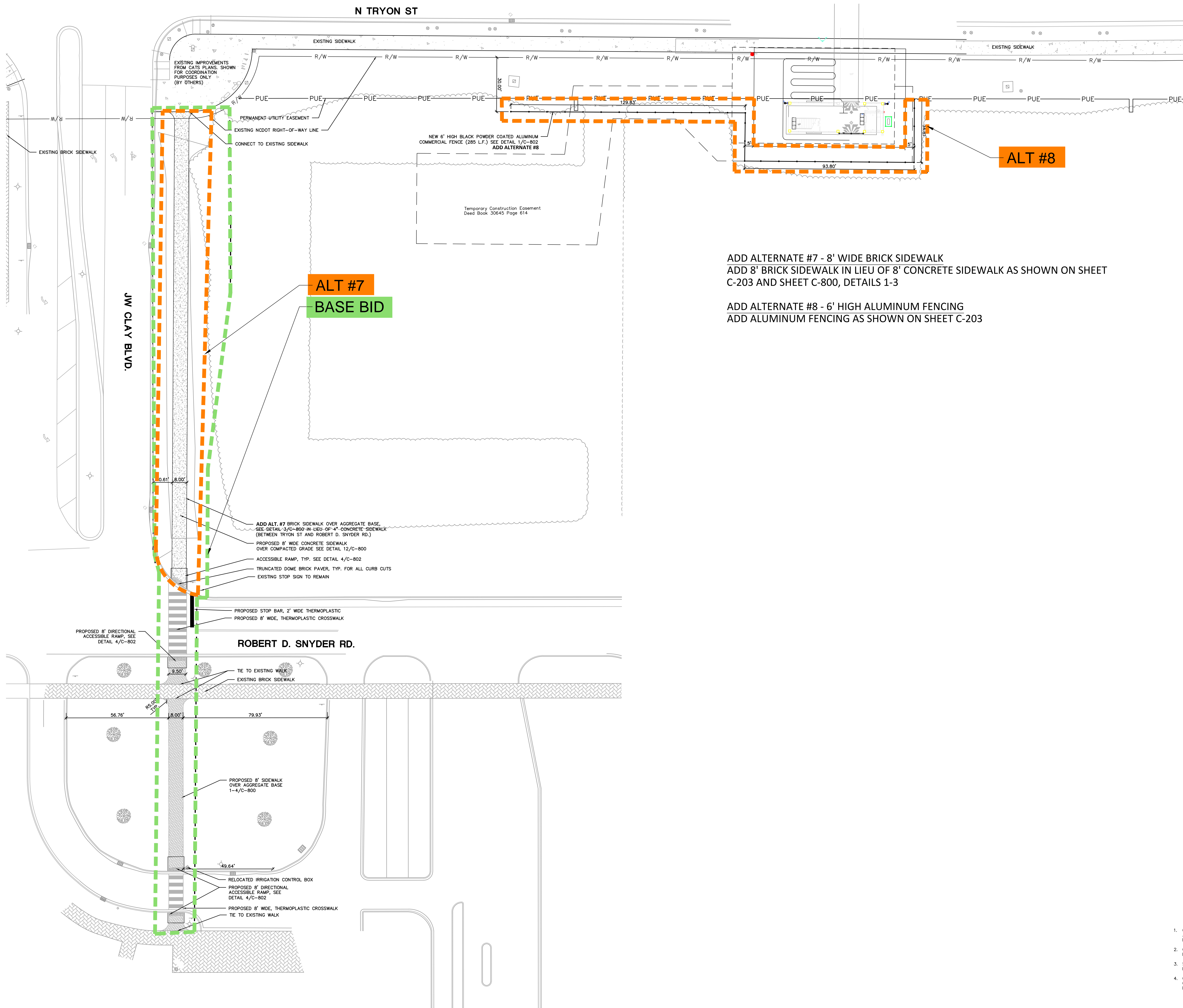
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C-700 (BASE BID/ALT. #6A/6B)

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- 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.

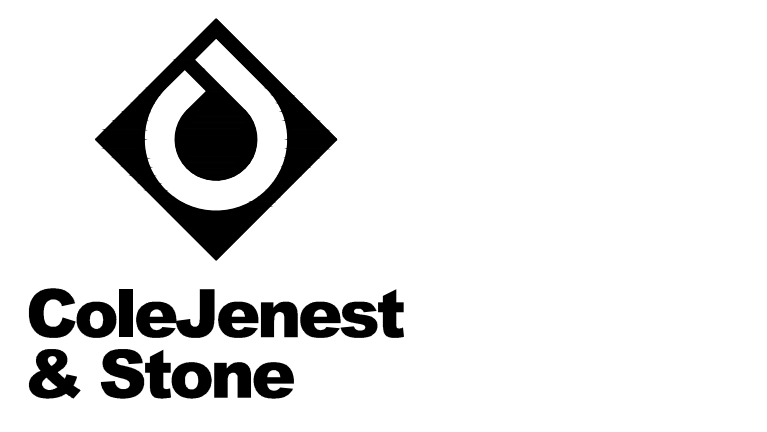


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LEGEND

SYMBOL	DETAIL
[Pattern: Diagonal lines]	EXISTING BRICK SIDEWALK -/-
[Pattern: Stippled]	PROPOSED BRICK SIDEWALK 1-4/C-800
[Pattern: Horizontal lines]	PROPOSED ACCESSIBLE RAMP 16/C-801
[Symbol: Square with 'x']	PROPOSED LIGHTING -/-
[Symbol: Square with 'x']	EXISTING LIGHTING -/-
[Pattern: Stippled]	PROPOSED CONCRETE SIDEWALK 12/C-800
[Symbol: Dashed line]	PROJECT LIMIT -/-

SEE SHEET C-200 FOR STAKING NOTES



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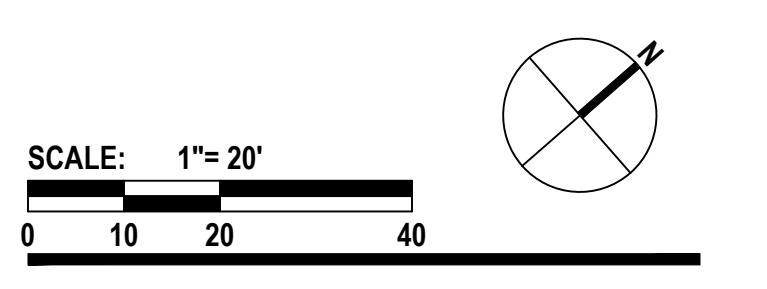
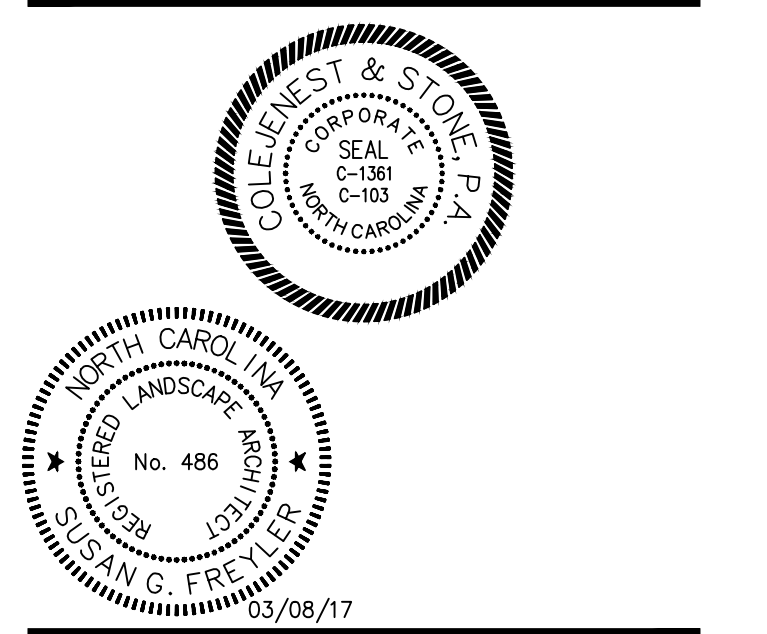
SCO ID# 16-14055
 CODE 41526 ITEM 310

J.W. CLAY - STAKING AND MATERIALS PLAN

Project No.
 4496

Issued
 03/08/2017 - BID SET

Revised

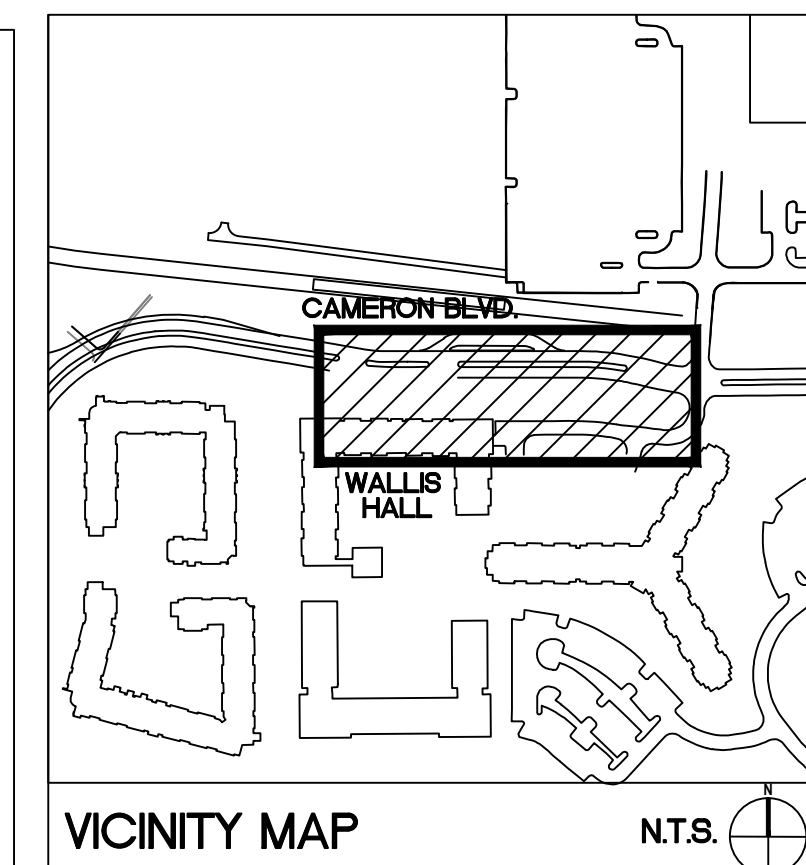
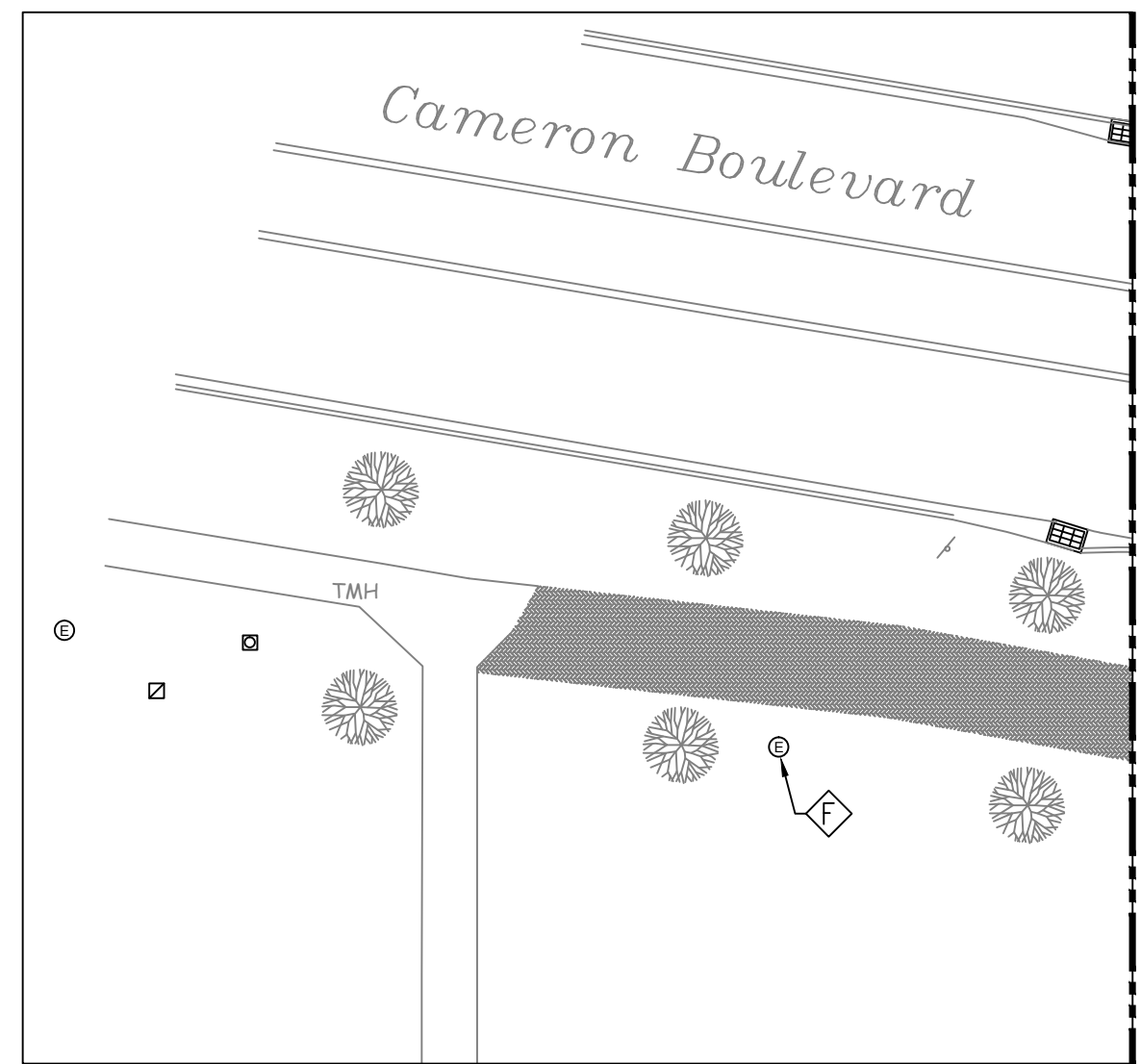


- CONTRACTOR IS FULLY RESPONSIBLE FOR CONTACTING APPROPRIATE PARTIES AND ASSURING THAT EXISTING UTILITIES ARE LOCATED PRIOR TO CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR PLACING BARRICADES USING FLAG MEN, ETC. AS NECESSARY TO INSURE SAFETY TO THE PUBLIC.
- SHORING WILL BE ACCORDING TO OSHA TRENCHING 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.

C-203 (BASE BID/ALT.#7,8)

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- GENERAL NOTES:**
- ALL ELECTRICAL LINES SERVING NEW PEDESTRIAN AND TRAFFIC CONTROLS SHALL BE LOCATED UNDERGROUND.
 - PROVIDE TRAFFIC RATED HAND HOLES AS NECESSARY FOR ROUTING CONDUITS UNDER GROUND AND RECONNECT EXISTING SITE LIGHTING.
 - SEE PLANTING PLAN FOR TREE LOCATIONS
 - REFER TO CIVIL PLANS FOR EXISTING POLES TO REMAIN, BE RELOCATED, OR TO BE REMOVED. PROVIDE NEW WIRING (2#10, 1#10, 1" C) TO EXTEND EXISTING CIRCUITS TO NEW LIGHT POLE LOCATIONS.
 - PROVIDE STAINLESS STEEL LOCKABLE GASKETED ENCLOSURE TO PROTECT EQUIPMENT & CONTROLS FOR EACH TRAFFIC CONTROL CABINET.
 - COORDINATE AND CONFIRM FINAL LOCATION OF LIGHTS WITH UNCC CONSTRUCTION MANAGER IN THE EVENT A PROPOSED LIGHT POLE LOCATION IS IN CONFLICT WITH AN EXISTING OR PROPOSED UTILITY.
 - CONTRACTOR SHALL BE FULLY RESPONSIBLE TO CALL NORTH CAROLINA ONE-CALL CENTER (1-800-632-4949) AND UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE AT LEAST 48 HOURS PRIOR TO UNDERGROUND WORK TO HAVE EXISTING UTILITIES LOCATED. REPORT ANY DISCREPANCIES TO THE ENGINEER.
 - CONTRACTOR SHALL BE FULLY RESPONSIBLE TO CONTRACT WITH PRIVATE UTILITY LOCATOR TO HAVE ALL EXISTING UTILITIES LOCATED.
 - ALL EXISTING UTILITIES ARE SHOWN AT APPROXIMATE LOCATIONS. CONTRACTOR IS FULLY RESPONSIBLE TO FIELD VERIFY ACTUAL LOCATION AND DEPTH OF EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION.
 - THE CONTRACTOR SHALL ENSURE THAT ALL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS AND STANDARDS ARE FOLLOWED DURING ALL PHASES OF THE CONSTRUCTION PROJECT. SHEETING OR BRACING SHALL BE USED WHENEVER NECESSARY TO PREVENT FAILURE OF THE TRENCH BANKS. ALL SHEETING SHALL CONFORM TO AASHTO AND OSHA SAFETY STANDARDS.
 - THE CONTRACTOR SHALL BE FULLY RESPONSIBLE TO PROVIDE SIGNS, BARRICADES, WARNING LIGHTS, GUARD RAILS, AND EMPLOY FLAGGERS AS NECESSARY WHEN CONSTRUCTION ENDANGERS EITHER VEHICULAR OR PEDESTRIAN TRAFFIC. THESE DEVICES SHALL REMAIN IN PLACE UNTIL THE TRAFFIC MAY PROCEED NORMALLY AGAIN.
 - CONSTRUCTION WORK ZONE SIGNS AND SIGNING PROCEDURES SHALL CONFORM TO THE MUTCD AND SUPPLEMENTS AND TO ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES.
 - SEE SHEET C-900 FOR LOCATION OF PEDESTRIAN SIGNAL POLES.
 - ADJUST ALL EXISTING ELECTRICAL HAND HOLES VERTICALLY AND HORIZONTALLY AS REQUIRED TO AVOID NEW CONDITIONS, FLUSH WITH SURROUNDING SURFACES AND COORDINATE WITH CIVIL DRAWINGS AND OWNER FINAL LOCATIONS.
- KEY NOTES**
- NEW 12" X 12" HAND HOLE FOR SITE LIGHTING CIRCUITS PROVIDE NEW 2#10, 1#10G, 1" C TO RECONNECT EXISTING CIRCUIT.
 - LOCATION FOR RELOCATED EXISTING SITE LIGHTING POLE. SEE DETAIL FOR PAVEMENT MOUNTING. PROVIDE NEW POLE BASE. EXTEND CONDUIT AND RECONNECT TO EXISTING SITE LIGHTING CIRCUIT WITH 2#12, 1#12G, 1" C.
 - NEW SIGNAL LIGHT AND POLE, DECORATIVE TO MATCH PEDESTRIAN LIGHTING POLES. SEE SHEET C-900 & C-901, SEE DETAIL 12/E-102, COORDINATE FINAL STYLE, HEIGHT, FINISH, LOCATION, ETC. WITH C.M.
 - PROVIDE CONDUIT SLEEVES TO ENCLOSE EXISTING EXPOSED WIRING INTO ENCLOSURES
 - PROVIDE NEW 24"x24"x18" D HAND HOLE FOR POWER DISTRIBUTION
 - PROVIDE UL LISTED LED RETROFIT KIT FROM ORIGINAL EQUIPMENT MANUFACTURER
 - EXISTING SITE STREET LIGHT TO REMAIN.
 - PROVIDE (4) 20A-120V NEMA 5-20R GFCI RECEPTACLES FOR TRAFFIC CONTROL SYSTEM.
 - PROVIDE NEW STAINLESS STEEL PANELBOARD ENCLOSURE, ON 60"x36" CONCRETE PAD. SEE DETAIL.
 - EXISTING BLUE LIGHT TO REMAIN UNDER BASE POLE. REMOVE EXISTING BLUE LIGHT PHONE, ASSOCIATED CONDUIT, WIRE AND HAND HOLES UNDER ALTERNATE #4.
 - LOCATION FOR NEW BLUE LIGHT PHONE AND ASSOCIATED EQUIPMENT. PROVIDE NEW 2#10, 1#10G IN 1" C TO NEW LOCATION. COORDINATE WITH UNCC I.T. STAFF FOR NEW TELECOM CABLE. PROVIDE 1/2" C TO WALLS BLOC I.T. ROOM. PROVIDE ONE 12" X 12" HAND HOLE FOR POWER AND ONE 12" X 12" HAND HOLE FOR TELECOM.
 - EXTEND EXISTING CIRCUIT TO NEW PEDESTRIAN LIGHT POLE LOCATION.
 - NEW PEDESTRIAN LIGHT POLE LOCATION, PROVIDE NEW BASE, POLE AND LIGHT TO MATCH EXISTING SURROUNDING PEDESTRIAN DECORATIVE 'AMP' FIXTURES AND POLES. SEE DETAIL 6/E-102 PROVIDE UL LISTED LED KIT TO MATCH RETROFIT FIXTURES. COORDINATE WITH OWNER.
 - EXISTING PEDESTRIAN LIGHT POLE LOCATION, PROVIDE NEW POLE AND LIGHT TO MATCH EXISTING SURROUNDING PEDESTRIAN DECORATIVE 'AMP' FIXTURES AND POLES. MOUNT TO EXISTING BASE AND CONNECT TO EXISTING CIRCUIT. PROVIDE UL LISTED LED KIT TO MATCH RETROFIT FIXTURES. COORDINATE WITH OWNER.

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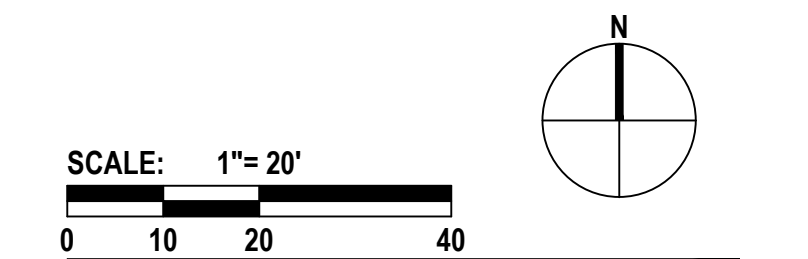
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MAIN STATION - SITE PLAN

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

Revised

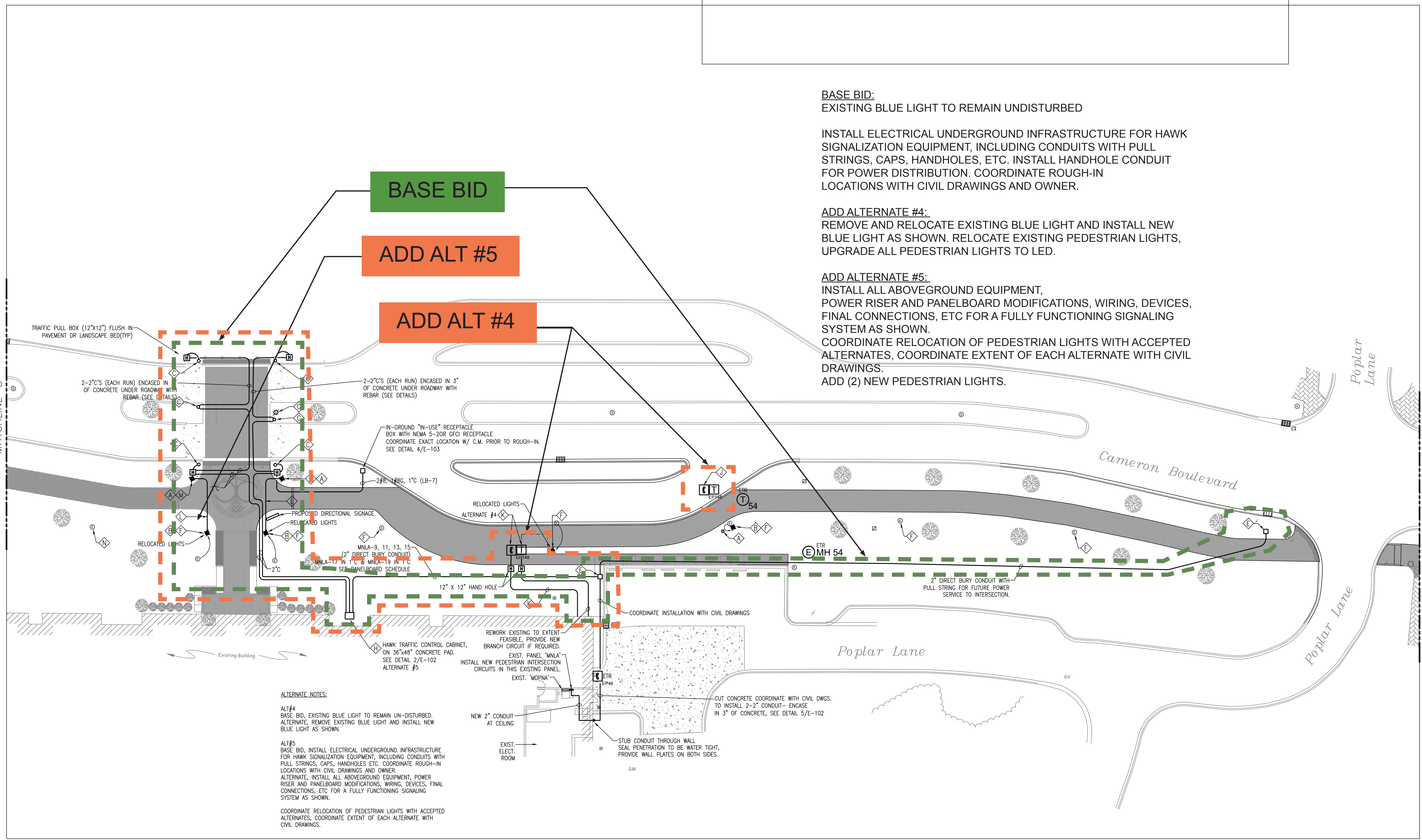
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E-200

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- ALTERNATE NOTES:**
- ALT#4**
 BASE BID, EXISTING BLUE LIGHT TO REMAIN UN-DISTURBED. ALTERNATE, REMOVE EXISTING BLUE LIGHT AND INSTALL NEW BLUE LIGHT AS SHOWN.
 - ALT#5**
 BASE BID, INSTALL ELECTRICAL UNDERGROUND INFRASTRUCTURE FOR HAWK SIGNALIZATION EQUIPMENT, INCLUDING CONDUITS WITH PULL STRINGS, CAPS, HANDHOLES, ETC. COORDINATE ROUGH-IN LOCATIONS WITH CIVIL DRAWINGS AND OWNER.
 ALTERNATE, INSTALL ALL ABOVEGROUND EQUIPMENT, POWER RISER AND PANELBOARD MODIFICATIONS, WIRING, DEVICES, FINAL CONNECTIONS, ETC FOR A FULLY FUNCTIONING SIGNALING SYSTEM AS SHOWN.
 COORDINATE RELOCATION OF PEDESTRIAN LIGHTS WITH ACCEPTED ALTERNATES, COORDINATE EXTENT OF EACH ALTERNATE WITH CIVIL DRAWINGS.

BASE BID:
 EXISTING BLUE LIGHT TO REMAIN UNDISTURBED

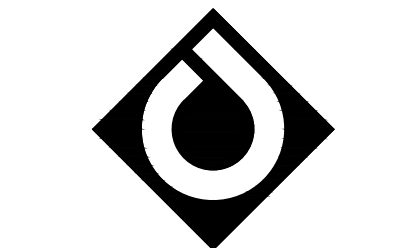
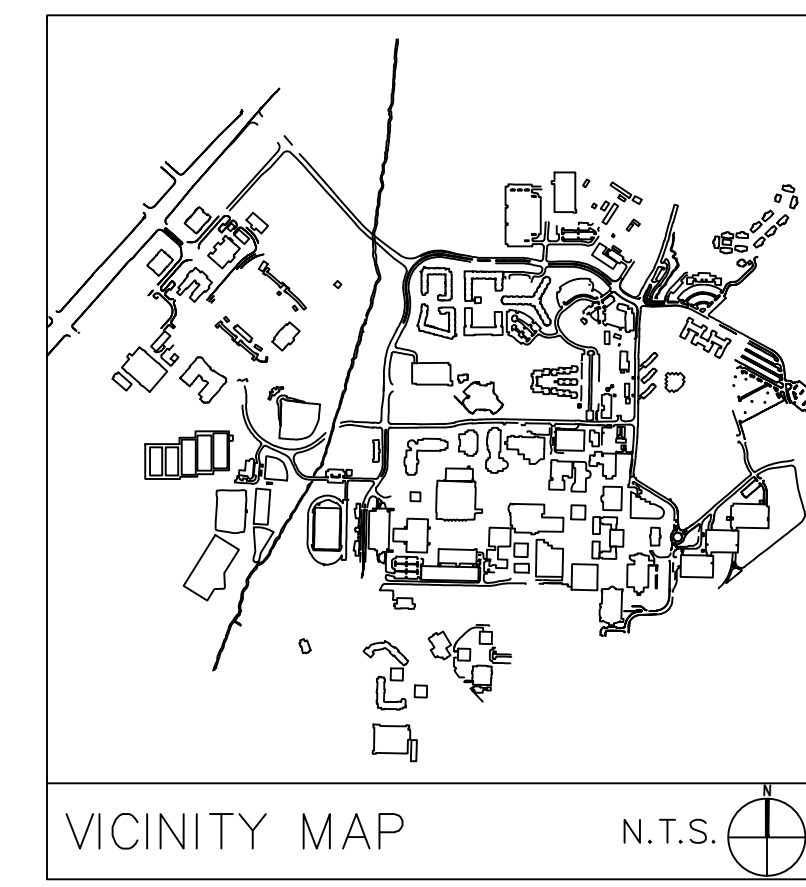
INSTALL ELECTRICAL UNDERGROUND INFRASTRUCTURE FOR HAWK SIGNALIZATION EQUIPMENT, INCLUDING CONDUITS WITH PULL STRINGS, CAPS, HANDHOLES, ETC. INSTALL HANDHOLE CONDUIT FOR POWER DISTRIBUTION. COORDINATE ROUGH-IN LOCATIONS WITH CIVIL DRAWINGS AND OWNER.

ADD ALTERNATE #4:
 REMOVE AND RELOCATE EXISTING BLUE LIGHT AND INSTALL NEW BLUE LIGHT AS SHOWN. RELOCATE EXISTING PEDESTRIAN LIGHTS, UPGRADE ALL PEDESTRIAN LIGHTS TO LED.

ADD ALTERNATE #5:
 INSTALL ALL ABOVEGROUND EQUIPMENT, POWER RISER AND PANELBOARD MODIFICATIONS, WIRING, DEVICES, FINAL CONNECTIONS, ETC FOR A FULLY FUNCTIONING SIGNALING SYSTEM AS SHOWN.
 COORDINATE RELOCATION OF PEDESTRIAN LIGHTS WITH ACCEPTED ALTERNATES, COORDINATE EXTENT OF EACH ALTERNATE WITH CIVIL DRAWINGS.
 ADD (2) NEW PEDESTRIAN LIGHTS.

MATCHLINE 'B'

MATCHLINE SEE E-201



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SCO ID# 16-14055
 CODE 41526 ITEM 310

MAIN STATION - IRRIGATION PLAN

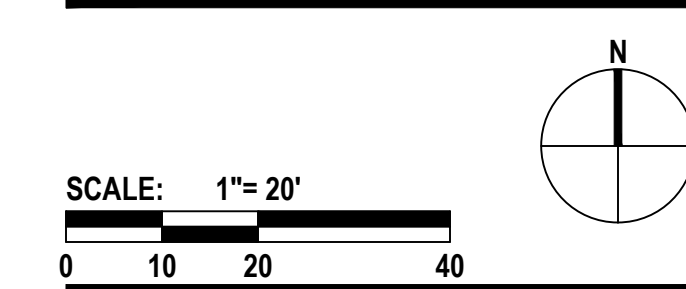
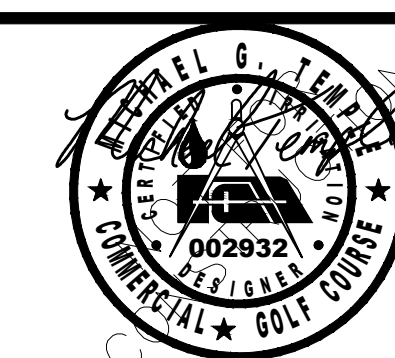
Project No.

4496

Issued

02/27/2017 - CD SCO SUBMITTAL

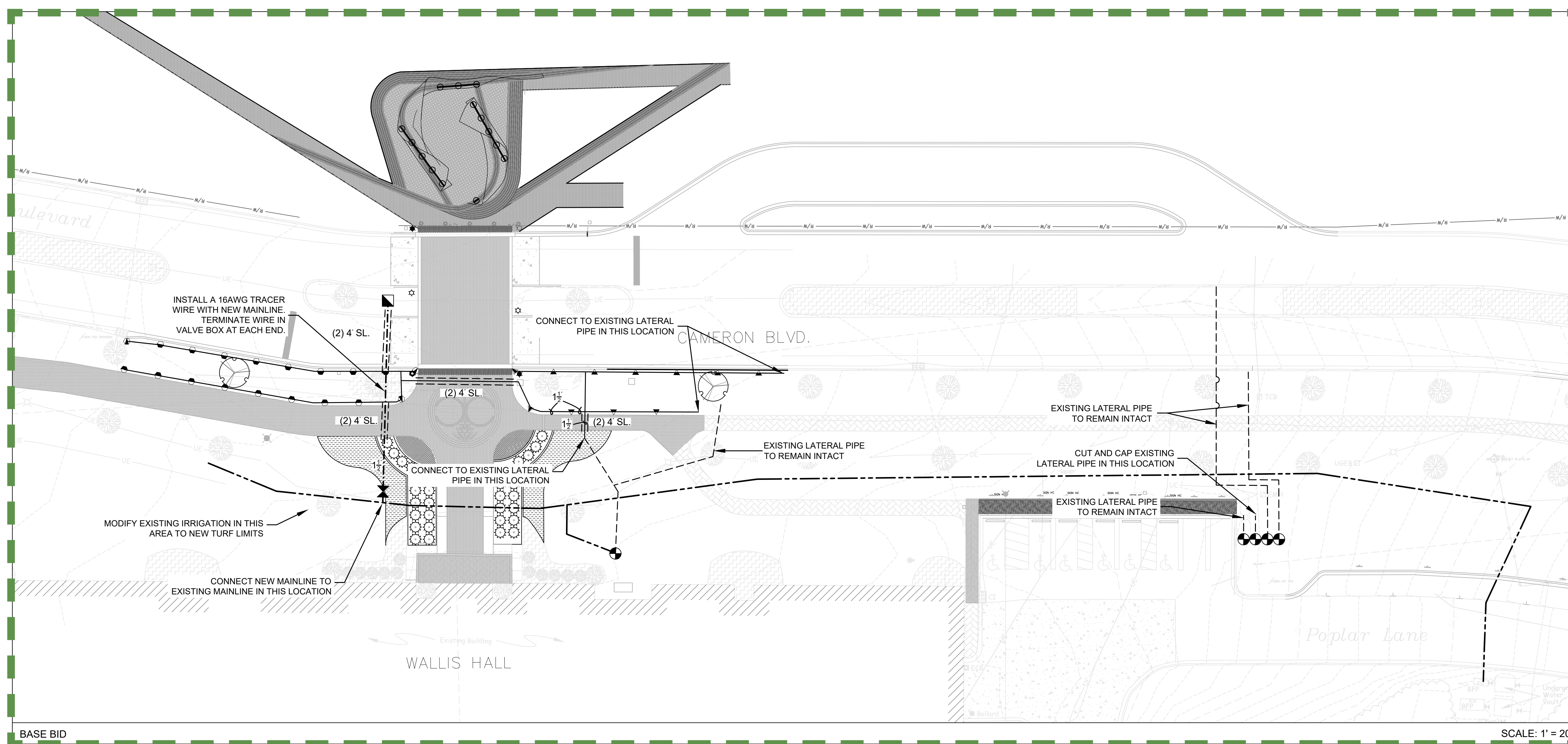
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I-100
 (BASE BID/ALT. #6A/6B)

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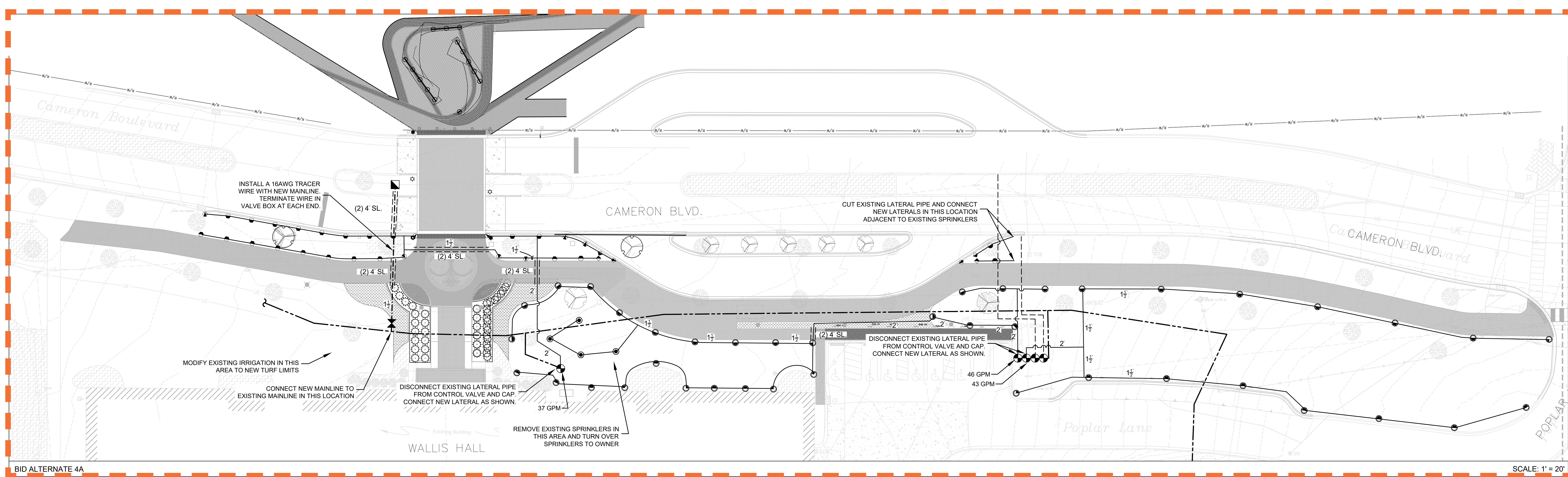
BASE BID

IRRIGATION LEGEND

SYMBOL	MAX. SPACING	DESCRIPTION
	15'	TORO 570Z-6P PRX-COM SPRAY SPRINKLER WITH PRECISION SERIES SPRAY NOZZLES
	12'	
	10'	
	8'	
	20'	TORO PRN-TA ROTARY NOZZLE
	20'	TORO PRN-TF ROTARY NOZZLE
	35'	TORO TSP-CK ROTARY SPRINKLER
		EXISTING 24 VOLT ELECTRIC ZONE VALVE
		ISOLATION GATE VALVE (LINE SIZE)
		1" QUICK COUPLING VALVE
		CLASS-200 PVC LATERAL PIPING (SIZE AS INDICATED. ALL UNLABELLED PIPE TO BE 1 INCH)
		EXISTING PVC LATERAL PIPING TO REMAIN
		CLASS-200 PVC MAINLINE PIPING
		EXISTING PVC MAINLINE PIPING TO REMAIN
		SCHEDULE 40 PVC PIPE SLEEVE (SIZE AS INDICATED)
		INSTALL SCH-40 PVC ELECTRICAL CONDUIT ADJACENT TO ALL MAINLINE PIPE SLEEVES. MINIMUM WIRE CONDUIT SIZE TO BE 2-INCH, UNLESS OTHERWISE NOTED. SEE SLEEVING DETAIL.

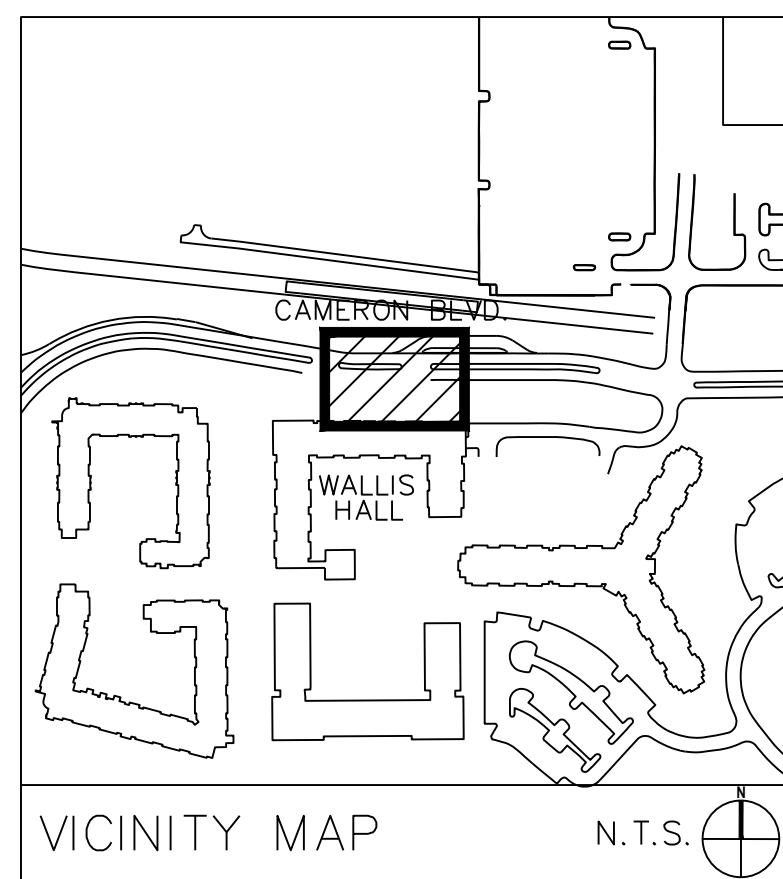
VALVE DESIGNATION:
 F - FLOW
 S - STATION NO.
 V - VALVE SIZE

SLEEVING/CONDUIT DESIGNATION:
 S - SIZE
 SL - SLEEVE/CONDUIT INDICATOR
 SL=SLEEVE WC=WIRE CONDUIT



ADD ALT #4

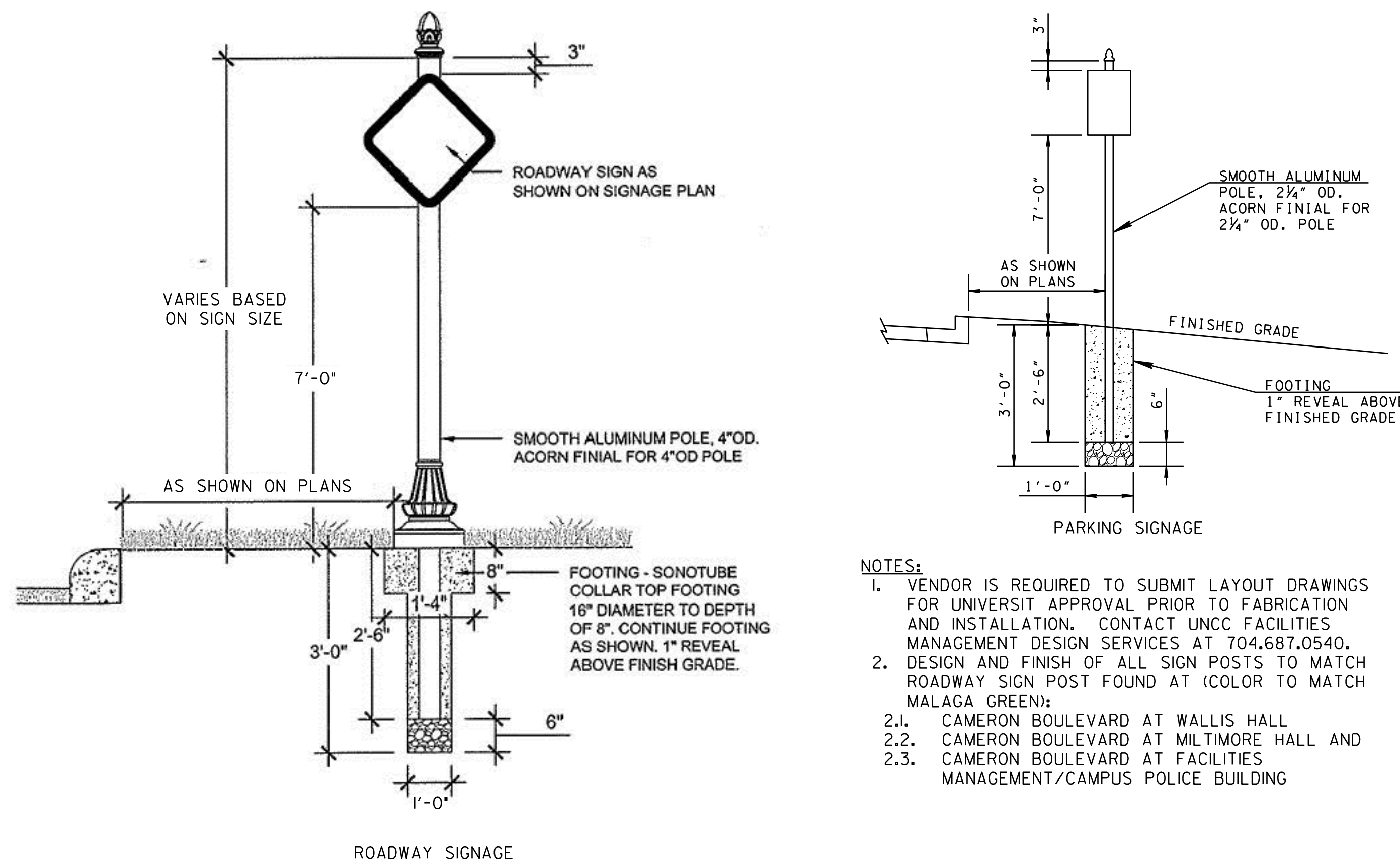
- CONTRACTOR IS FULLY RESPONSIBLE FOR CONTACTING APPROPRIATE PARTIES AND ASSURING THAT EXISTING UTILITIES ARE LOCATED PRIOR TO CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR PLACING BARRICADES USING FLAG MEN, ETC. AS NECESSARY TO INSURE SAFETY TO THE PUBLIC.
- SHORING WILL BE ACCORDING TO OSHA TRENCHING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



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



- 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.
- ALL PAVEMENT CUTS, CONCRETE OR ASPHALT, ARE TO BE REPLACED ACCORDING TO STANDARDS OF THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION AND CHARLOTTE-MECKLENBURG UTILITIES SPECIFICATIONS.
- 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 PRIOR TO CONSTRUCTION.



SIGNAGE DETAILS

- NOTES:**
- VENDOR IS REQUIRED TO SUBMIT LAYOUT DRAWINGS FOR UNIVERSITY APPROVAL PRIOR TO FABRICATION AND INSTALLATION. CONTACT UNCC FACILITIES MANAGEMENT DESIGN SERVICES AT 704.687.0540.
 - DESIGN AND FINISH OF ALL SIGN POSTS TO MATCH ROADWAY SIGN POST FOUND AT (COLOR TO MATCH MALAGA GREEN):
 - CAMERON BOULEVARD AT WALLIS HALL
 - CAMERON BOULEVARD AT MILTMORE HALL AND CAMERON BOULEVARD AT FACILITIES MANAGEMENT/CAMPUS POLICE BUILDING

LEGEND	SIZE	SIGN FACE				STEEL DESIGN		MINIMUM VERTICAL CLEARANCE	QUANTITY
		LENGTH	HEIGHT	COPY	BACKGROUND	MATERIAL	SUPPORT TYPE		
W11-15	30"	30"	BLACK	FLUOR. YELLOW GREEN (REF.)	0.080" SHEET ALUMINUM	SEE ROADWAY SIGNAGE DETAIL	8'-3"	2	
W16-7PL	24"	12"	BLACK	FLUOR. YELLOW GREEN (REF.)	0.080" SHEET ALUMINUM	MOUNTED WITH W11-15	7'-0"	2	
R7-5 (MOD.) * *OWNER TO APPROVE TEXT PRIOR TO FABRICATION	12"	18"	WHITE	GREEN (REF.)	0.080" SHEET ALUMINUM	SEE PARKING SIGNAGE DETAIL	7'-0"	4	
R7-7	12"	18"	RED	WHITE (REF.)	0.080" SHEET ALUMINUM	SEE PARKING SIGNAGE DETAIL	7'-0"	1	

SIGN SCHEDULE DETAIL

GENERAL NOTES:

- SIGNAGE SHOULD COMPLY WITH UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE DESIGN AND CONSTRUCTION MANUAL SECTION 3, ANNEX D CAMPUS EXTERIOR SIGNAGE STANDARDS
- POST STOCK - ALUMINUM 3"x4" SQUARE TUBE WELDED AT 45 DEGREE CUT JOINT INTERSECTION WITH INTERNAL REINFORCED SUPPORTS.
- HEADER BOARD - ASSEMBLY PAINTED IN CAMPUS GREEN, AND AFFIXED WITH BOTH MECHANICAL FASTENERS AND ADHESIVE SYSTEMS.
- CROWN ASSEMBLY - AFFIXED TO BAND AS FEATURE, WITH GOLD AREA BEING 04 GOLD VINYL OR PAINT EQUAL, AND DARK GREEN AREA PAINTED TO MATCH SIGN BODY AND POSTS
- SIGN BODY - ALUMINUM WITH CHANNEL EDGE (SEE DETAIL SHEET), AFFIXED WITH MECHANICAL FASTENERS, AND FILLER FINISH FOR BLENDING WITH PAINTED SURFACES. STAINLESS STEEL HINGE. LED INTERIOR CABINET LIGHTING.
- FOOTER SUPPORT - 3"x12" 'C' CHANNEL STEEL METAL FOOTING BAR. 3/8" DIAMETER STAINLESS STEEL HARDWARE ASSEMBLY AND #4 REBAR CROSS PINS.
- FASTENERS - 3/8" SS BOLT ASSEMBLY AND 1" ACCESS HOLES OPPOSITE OF (E) FASTENERS MUST BE PLUGGED WITH PAINTED "SNAP IN" CAP.
- FOOTING IS 12" DIAMETER POST HOLE 42" IN DEPTH POURED 1" FINISHED GRADE

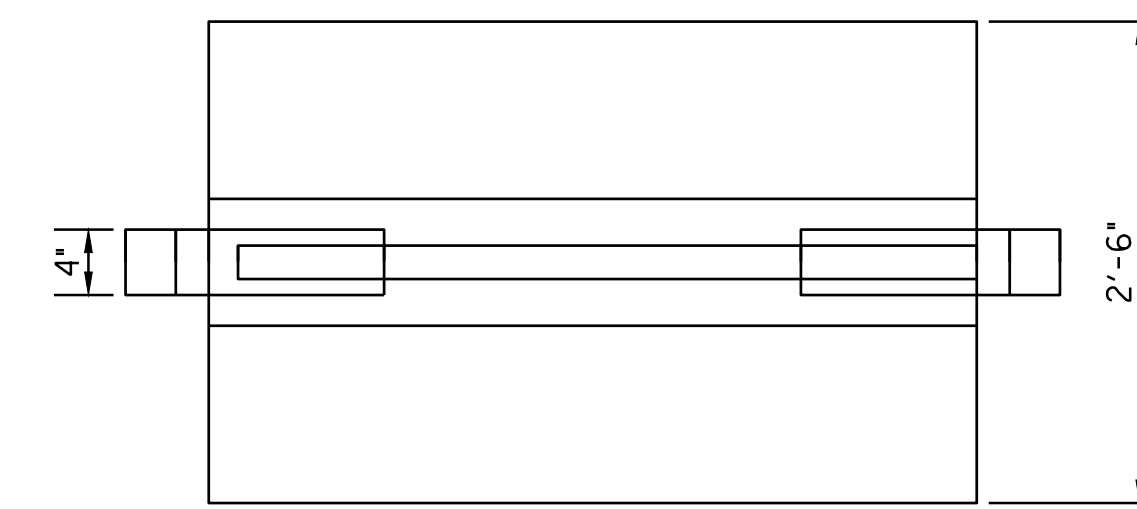
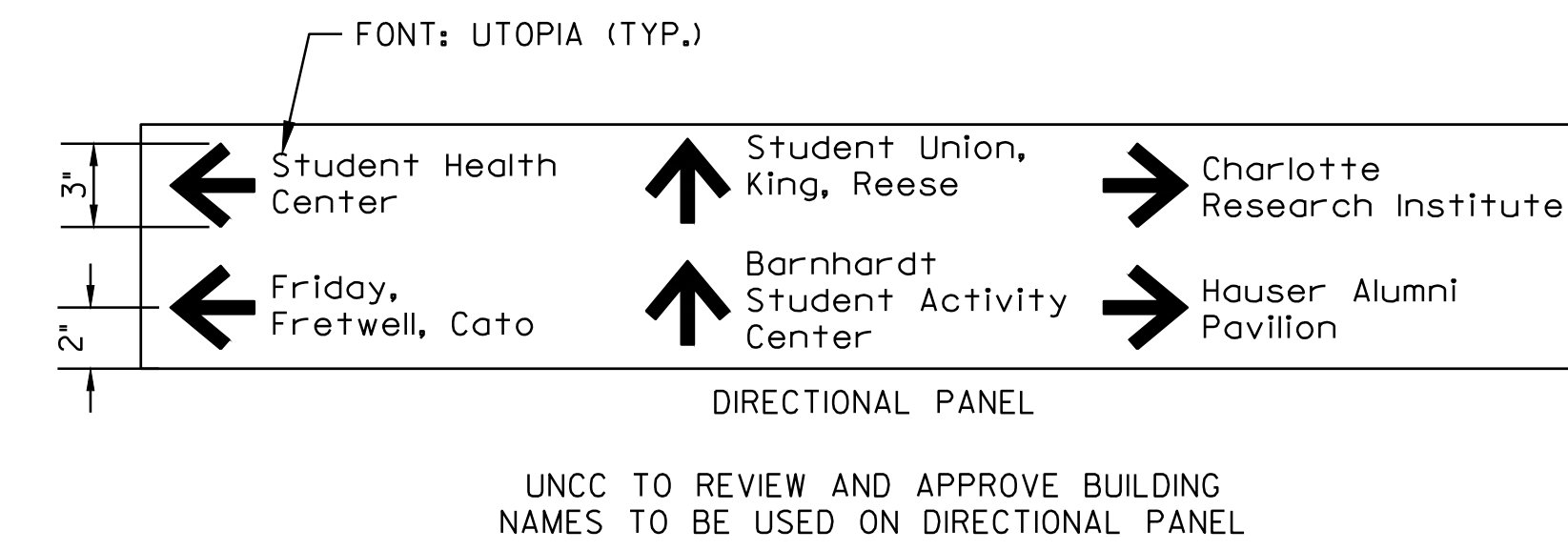
FINISH NOTES:

- POSTS AND SIGN BODY: 'BLACK GREEN' MATTHEWS PAINT CO. MP21337 R91290 - SATIN FINISH AND SATIN CLEAR COAT TO SEAL. ALTERNATE - RAL 6012 BLACK GREEN
- HEADER ASSEMBLY: CAMPUS GREEN PMS 349 MATTHEWS PAINT CO. MP00457 R91290 SATIN FINISH AND SATIN CLEAR COAT TO SEAL.
- CANOPY ASSEMBLY: 'NATURAL WHITE LRV' MATTHEWS PAINT CO. MP42202SP R2822045P SATIN FINISH AND SATIN CLEAR COAT TO SEAL. ALTERNATE RAL 9003 SIGNAL WHITE
- TEXT GRAPHICS/LETTERING: 3M DIAMOND GRADE PRISMATIC OR EQUAL WHITE HIGH PERFORMANCE VINYL.
- LOGO: GOLD CROWN ARLON 04 OR EQUAL. INSET OR SECOND COLOR TO MATCH SIGN BODY PAINT CODE.

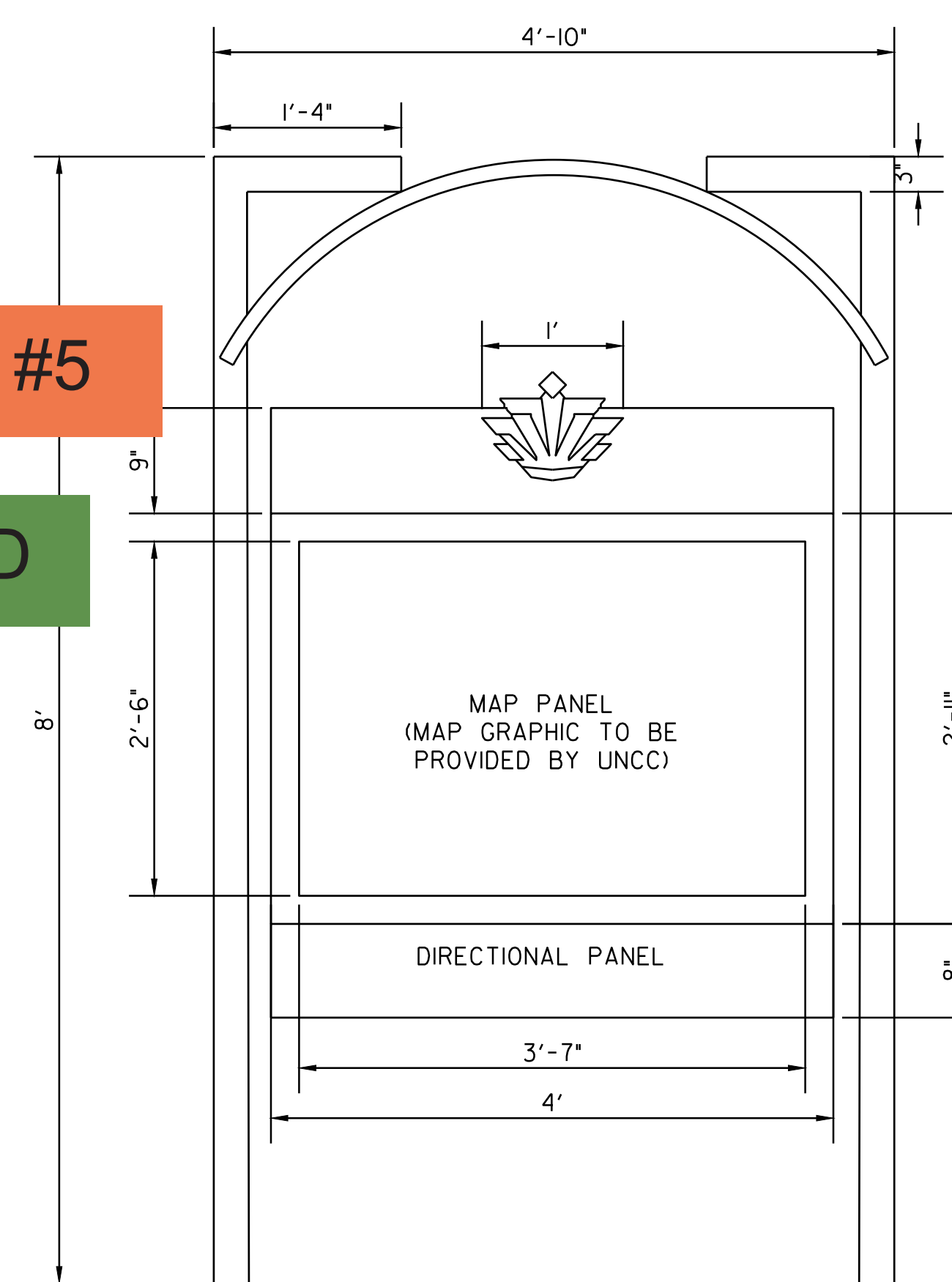
ALL SURFACES TO BE SMOOTH AND FREE OF OBVIOUS DEFECTS; VOIDS FILLED WHERE NECESSARY. ALUMINUM TO BE PRIME COATED TO ACCEPT FINISHES.

FOR ALL LAYOUTS ON EXTERIOR SIGNAGE, THE VENDOR MUST PROVIDE SUBMITTAL DRAWINGS WITH LAYOUT AND CHARACTER SIZING, INCLUDING COMPRESSION AND SPACING SIZES USED TO CREATE READABLE SIGNAGE FOR MOVING VEHICULAR TRAFFIC.

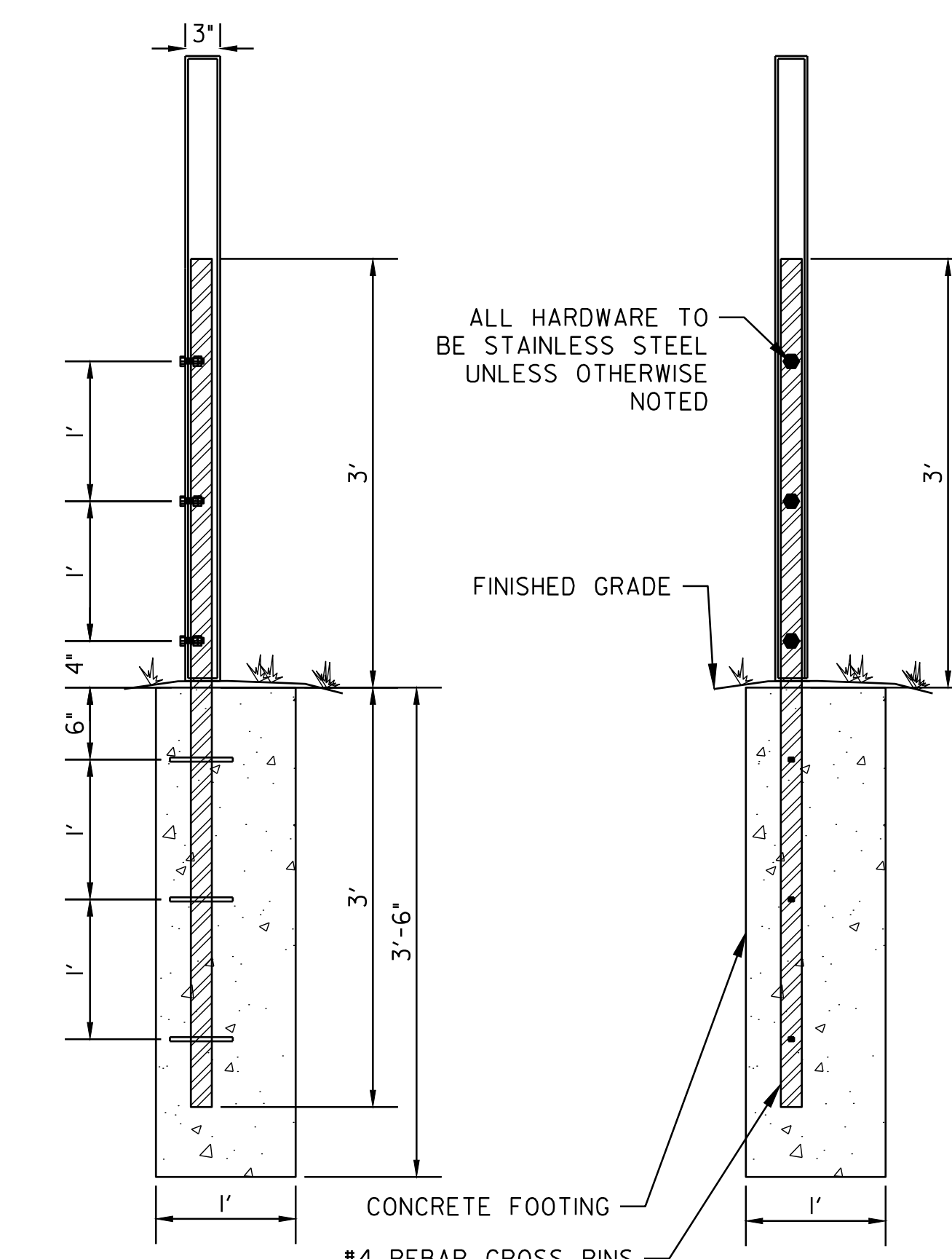
LOGO INFORMATION AT:
[HTTP://WWW.PUBLICRELATIONS.UNCC.EDU/LOGO/MAIN-LOGO.HTML](http://www.publicrelations.uncc.edu/logo/main-logo.html)



FRONT VIEW

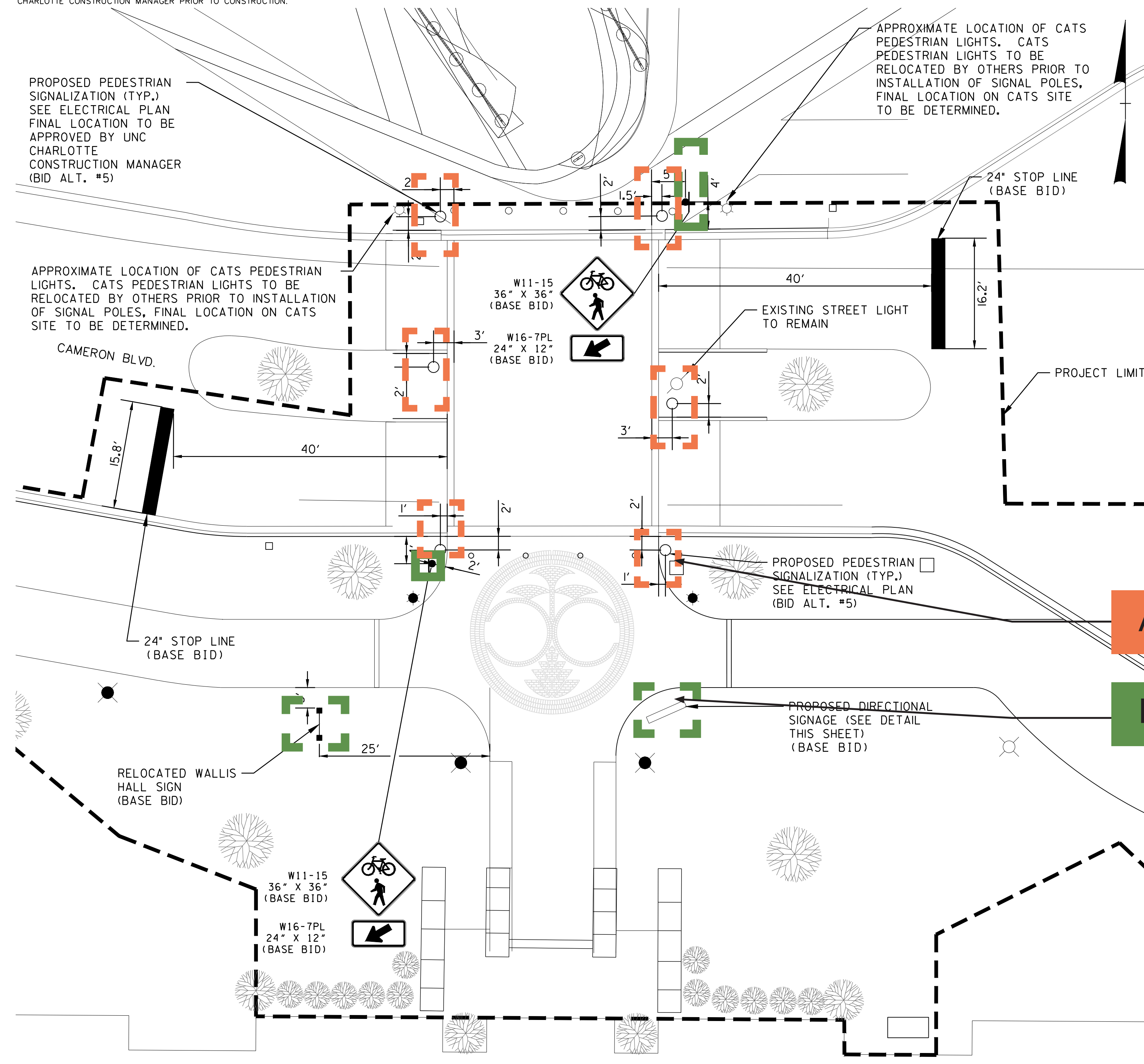


DIRECTIONAL SIGNAGE DETAIL

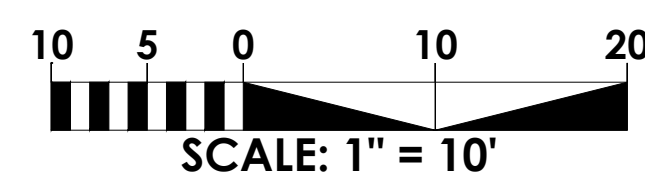


FOOTING DETAIL

FOOTING SIDE VIEW

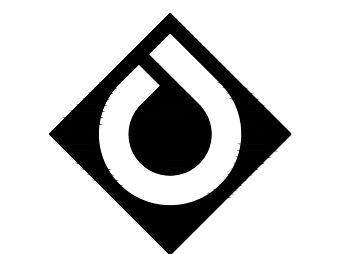


PLAN VIEW



ADD ALT #5

BASE BID



ColeJenest & Stone
 200 South Tryon Street, Suite 1400
 Charlotte, North Carolina 28202
 p+ 704 376 1555 (+ 704 376 7851)
 url+ www.colejeneststone.com



108 S. Main Street, Suite B (Physical)
 PO Box 2453 (Mailing)
 Davidson, NC 28036
 P: 704.255.6200
 NC License #P-1301

UNC-CHARLOTTE

9201 University City Blvd
 Charlotte, NC 28223

CAMPUS CIRCULATION IMPROVEMENTS

SIGNAGE AND PAVEMENT MARKING PLAN

Project No.

4496

Issued

03/08/2017 - BID SET

Revised

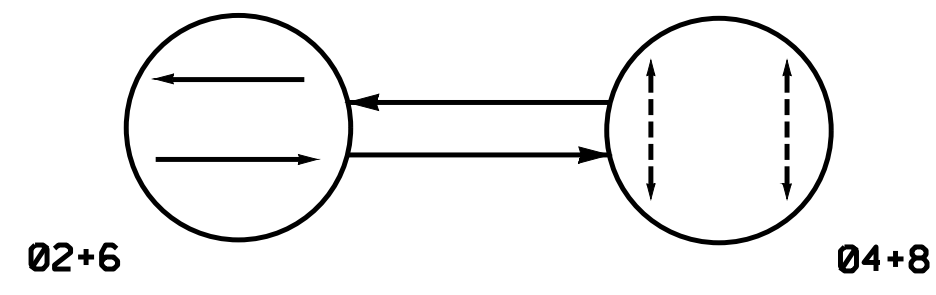


C-900

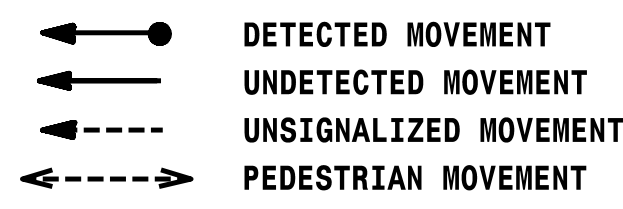
The drawings, the project manual and the design shown thereon are instruments of ColeJenest & Stone, P.A. The reproduction or unauthorized use of the documents without consent of ColeJenest & Stone, P.A. is prohibited.

ColeJenest & Stone, P.A. 2016

PHASING DIAGRAM

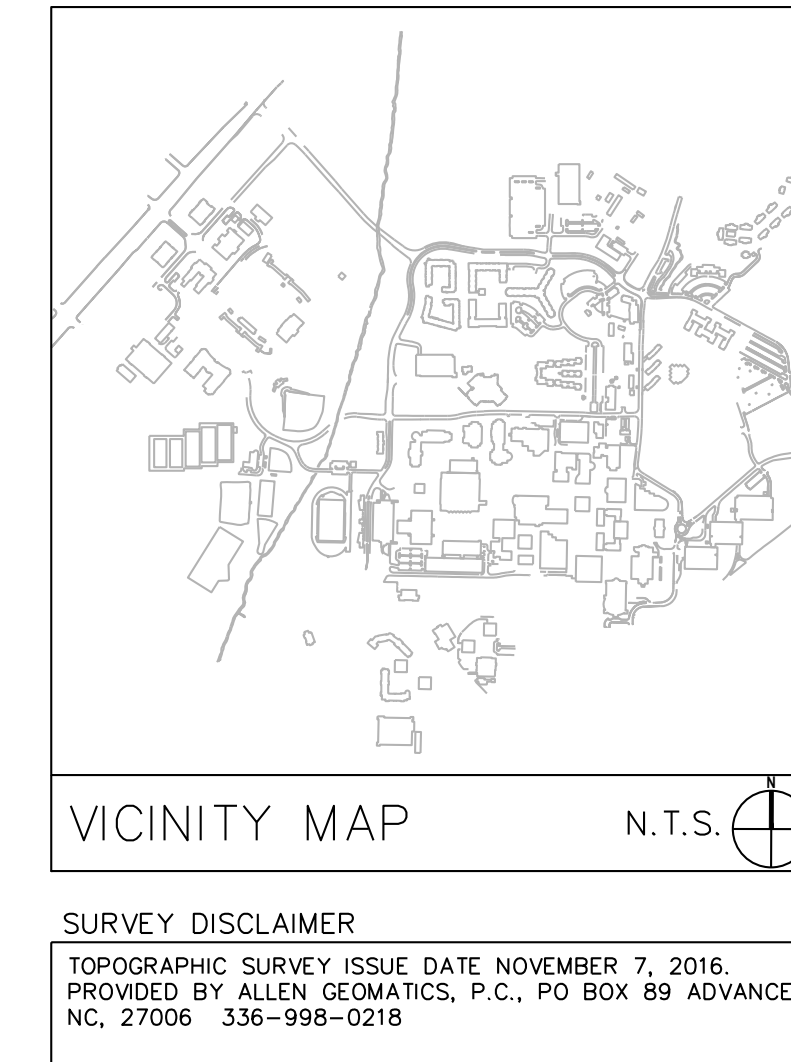
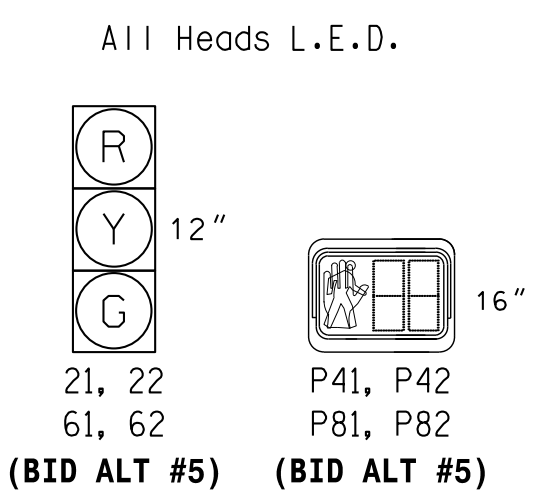


PHASING DIAGRAM DETECTION LEGEND

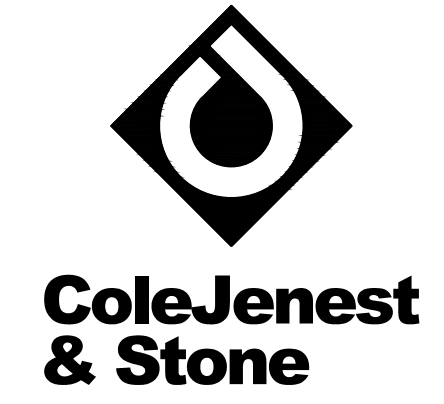


SIGNAL FACE	PHASE		
	Ø+4	Ø+4	Ø+4
21, 22	G	R	Y
61, 62	G	R	Y
P41, P42	DW	W	DRK
P81, P82	DW	W	DRK

**(BID ALT #5)
SIGNAL FACE I.D.**



SURVEY DISCLAIMER
TOPOGRAPHIC SURVEY ISSUE DATE NOVEMBER 7, 2016,
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NC, 27006 336-998-0218



ColeJenest & Stone
200 South Tryon Street, Suite 1400
Charlotte, North Carolina 28202
p+ 704 376 1555 f+ 704 376 7851
url+ www.colejeneststone.com



108 S. Main Street, Suite B (Physical)
PO Box 2453 (Mailing)
Davidson, NC 28036
p 704-255-6200
NC License #P-1301

UNC-CHARLOTTE

9201 University City Blvd
Charlotte, NC 28223

**CAMPUS
CIRCULATION
IMPROVEMENTS**

SIGNAL PLAN

Project No.
4496

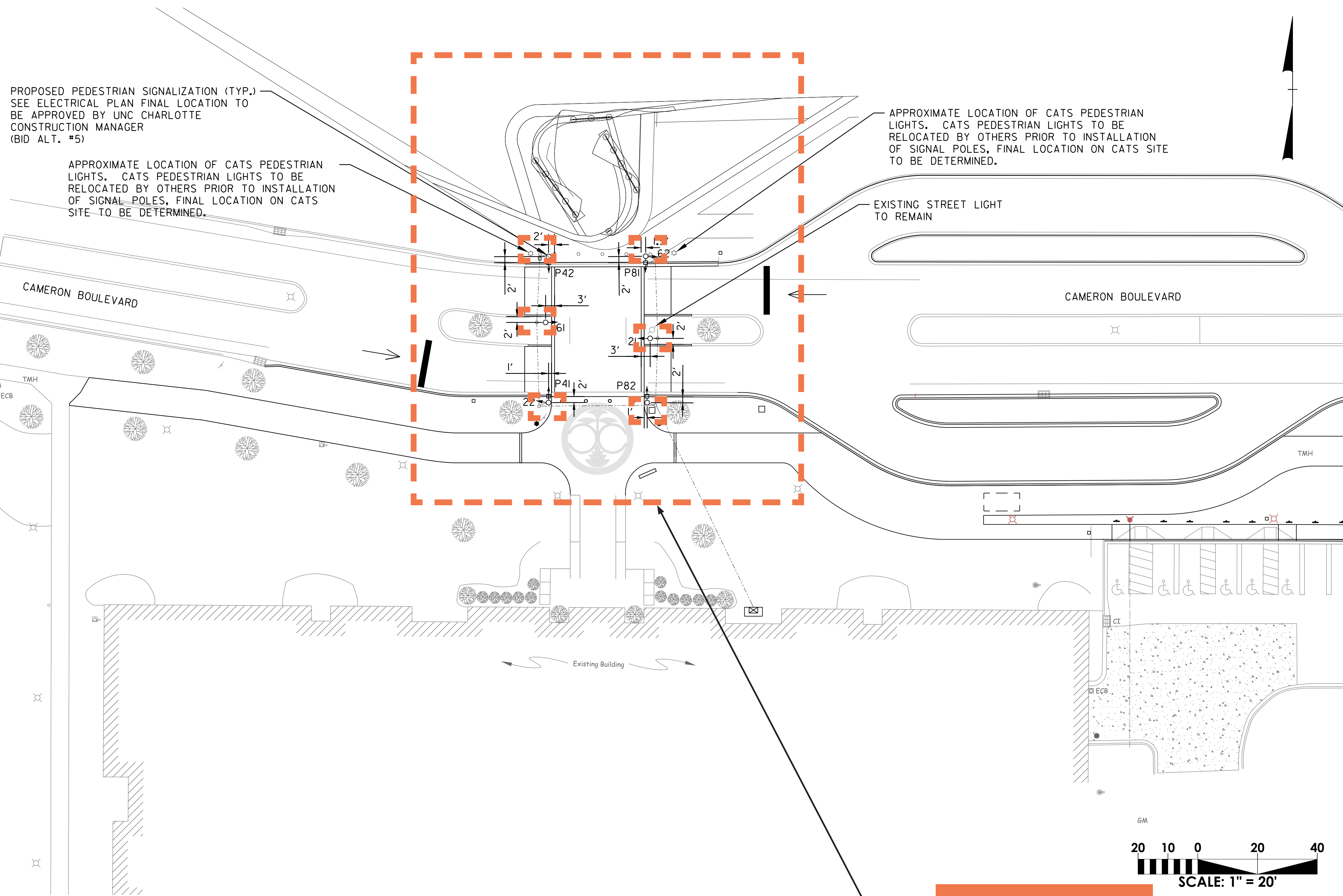
Issued
03/08/2017 - BID SET

Revised



**C-901
ADD ALTERNATE #5**

The drawings, the project manual and the design shown thereon are instruments of ColeJenest & Stone, P.A. The reproduction or unauthorized use of the documents without consent of ColeJenest & Stone, P.A. is prohibited.
ColeJenest & Stone, P.A. 2016



NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.

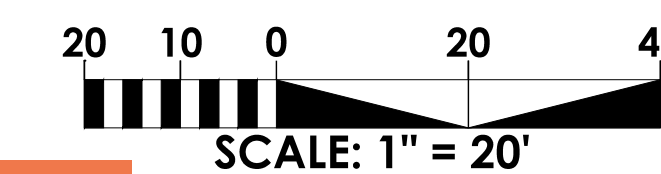
Vendors - Signal Head, Vehicular
MoboTrex Inc.
Econolite Control Products
General Traffic Equipment Corp.
McCain Traffic Supply
or Approved Equal

Vendors - Signal Head, Pedestrian
MoboTrex Inc.
Econolite Control Products
General Traffic Equipment Corp.
McCain Traffic Supply
or Approved Equal

- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- Pedestrian pedestals are conceptual and shown for reference only. See NCDOT special detail sheets 1705D01 for pushbutton location details.
- All signal equipment shall be dark green "black green" in color per UNCC Design Standards.

APPLICABLE NCDOT STANDARD DETAILS

STD.NO.	TITLE
1700.01	Electrical Service Options
1700.02	Electrical Service Grounding
1705.02	Signal Heads
1705.03	Signal Heads
1715.01	Underground Conduit-Trenching
1716.01	Junction Boxes
1743.02	Pedestals
1743.04	Pedestals
1751.01	Controllers and Cabinets
1751.02	Controllers and Cabinets



ADD ALT #5

ALSO SEE SHEET E-200

FEATURE	PHASE			
	2	4	6	8
Min Green 1 *	-	-	-	-
Extension 1 *	-	-	-	-
Max Green 1 *	-	-	-	-
Yellow Clearance	-	-	-	-
Red Clearance	-	-	-	-
Red Revert	-	-	-	-
Walk 1 *	-	7	-	7
Don't Walk 1	-	13	-	13
Seconds Per Actuation *	-	-	-	-
Max Variable Initial *	-	-	-	-
Time Before Reduction *	-	-	-	-
Time To Reduce *	-	-	-	-
Minimum Gap	-	-	-	-
Recall Mode	-	-	-	-
Vehicle Call Memory	-	-	-	-
Dual Entry	-	-	-	-
Simultaneous Gap	-	-	-	-

* These values may be field adjusted. Do not adjust Min Green and Extension times for phases 2 and 4 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

PRE-BID MEETING SIGN-IN SHEET



Project: UNC Charlotte – Campus Circulation Improvements

Meeting Date: March 15, 2017

Facilitator: ColeJenest & Stone / UNC Charlotte

Place/Room: Cone Center 112A

Name	Company	Phone	E-Mail
SUZIE FRIZLER	CJS	704.376.1555	sfrizler@colejeneststone.com
ANNA WALKER	CJS	"	awalker "
TODD FISHER	CJS	"	tfisher "
MARVIN K. FERGUSON	LITTLE MOUNTAIN BUILDERS	704.400.5605	littlemtnbldr@yahoo.com
VICTOR ARIZA	ARMEN CONSTRUCTION	704.953.7459	armencontractors@aol.com
ELIZABETH FRENE	UNC CHARLOTTE	704.687.0558	efrene@uncc.edu
DOROTHY VICK	UNC CHARLOTTE	704-687-0527	dlvick@uncc.edu
CRIS COOK	SITE ONE	336 688-8103	ccook@SITEONE.COM

NOTICE TO BIDDERS

Sealed proposals will be received by The University of North Carolina in Charlotte, NC, in Room 119 of the Facilities Management & Police building (#55 on the campus map – <http://facilities.uncc.edu/maps>) until **2:00 pm on Tuesday, April 4, 2017** and immediately thereafter publicly opened and read for the furnishing of labor, material and equipment entering into the construction of:

Campus Circulation Improvements The University of North Carolina at Charlotte

Campus Circulation Improvements are intended to enhance pedestrian and vehicular circulation on the UNC Charlotte campus with new connection to the CATS Lynx light rail line. Work includes the installation of new brick paver sidewalks, bus drop-off with parking, raised crosswalk with pedestrian signalization, and associated wall, stair, planter, drainage, and landscape improvements.

Bids will be received for single prime contract. All proposals shall be lump sum.

Visitor parking is available in Lot 26. Visitors will need to obtain a parking pass from the FM reception area on the first floor and return to their car prior to the bid opening. Campus map is available for review at <http://maps.uncc.edu/>.

Non-Mandatory Pre-Bid Meeting

A **non-mandatory** pre-bid meeting will be held for all interested bidders on Wednesday, March 15, 2017 at 2:00 pm in Room 112A of the Cone University Center (#5 on the campus map). The meeting will address project specific questions, issues, bidding procedures, and bid forms. After the prebid meeting there will be a site visit to go over the project scope and locations. **This will be the only opportunity for contractors and their subcontractors to visit the site, so please have all interested parties in attendance.**

Visitor parking is located in the Cone Deck adjacent the Cone University Center.

The meeting will address project specific questions, issues, bidding procedures, and bid forms. The meeting is also to identify preferred brand alternates and their performance standards that the Owner will consider for approval on this project. A walk of the site will be conducted immediately following the meeting.

The meeting is also to identify preferred brand alternates and their performance standards that the owner will consider for approval on this project.

In accordance with General Statute GS 133-3, Specifications may list one or more preferred brands as an alternate to the base bid in limited circumstances. Specifications containing a

preferred brand alternate under this section must identify the performance standards that support the preference. Performance standards for the preference must be approved in advance by the owner in an open meeting. Any alternate approved by the owner shall be approved only where (i) the preferred alternate will provide cost savings, maintain or improve the functioning of any process or system affected by the preferred item or items, or both, and (ii) a justification identifying these criteria is made available in writing to the public.

In accordance with GS133-3 and SCO procedures the following preferred brand items are being considered as Alternates by the owner for this project:

A. Face Brick: "Morrocroft Special" #02-79-1 manufactured by Forterra Brick.

B. Brick Pavers (Pedestrian, Vehicular, and ADA): Pine Hall Brick Company.

Justification of any approvals will be made available to the public in writing no later than seven (7) days prior to bid date.

Bidders questions will be entertained in writing until 5:00 pm on Wednesday, March 22, 2017. Address all questions to the designer, ColeJenest & Stone - Attn: Susan G. Freyler, sfreyler@colejeneststone.com.

Final addenda will be issued Tuesday, March 28, 2017 to all plan holders/bidders of record.

Complete plans, specifications, and contract documents will be open for inspection at:

ColeJenest & Stone
200 South Tryon Street, Suite 1400
Charlotte, NC 28202
(704) 376-1555

UNC Charlotte
Hickory Hall
Room 02E – Capital Projects Design Plan Review
Charlotte, NC 28223
(704) 687-0615

Metrolina Minority Contractors Association (MMCA) Plan Room
2848 Queen City Drive, Suite B
Charlotte, NC 28208
(877) 526-6205
mmca@mmcaofcharlotte.org

Or may be obtained from ColeJenest & Stone, upon deposit of fifty dollars (\$50) in cash or certified check. The full plan deposit will be returned to those bidders provided all documents are returned in good, usable condition within ten (10) days after the bid date.

Electronic copies of the plans, specifications and contract documents will also be provided electronically to all interested bidders. Contact for electronic plans and specifications is Susan Freyler at (704) 376-1555 or sfreyler@colejeneststone.com.

Electronic copies of the plans, specifications and contract documents are available at the following:

1. Construct Connect at content@constructconnect.com – 800-364-2059.
2. North Carolina Offices of McGraw-Hill Dodge Corporation – (877) 784-9556 or (800) 393-6343; <http://construction.com/dodge>
3. Metrolina Minority Contractors Association – (877) 526-6205; mmca@mmcaofcharlotte.org

NOTE: The bidder shall include with the bid proposal the form *Identification of Minority Business Participation* identifying the minority business participation it will use on the project and shall include either *Affidavit A* or *Affidavit B* as applicable. Forms and instructions are included within the Proposal Form in the bid documents. Failure to complete these forms is grounds for rejection of the bid. (GS143-128.2c Effective 1/1/2002.)

All contractors are hereby notified that they must have proper license as required under the state laws governing their respective trades.

General contractors are notified that Chapter 87, Article 1, General Statutes of North Carolina, will be observed in receiving and awarding general contracts. General contractors submitting bids on this project must have license classification for Building Contractor with an unlimited license required by the NC General Contractors Licensing Board under [G.S. 87-1](#).

NOTE--SINGLE PRIME CONTRACTS: Under GS 87-1, a contractor that superintends or manages construction of any building, highway, public utility, grading, structure or improvement shall be deemed a “general contractor” and shall be so licensed. Therefore a single prime project that involves other trades will require the single prime contractor to hold a proper General Contractors license.

Each proposal shall be accompanied by a cash deposit or a certified check drawn on some bank or trust company, insured by the Federal Deposit Insurance Corporation, of an amount equal to not less than five percent (5%) of the proposal, or in lieu thereof a bidder may offer a bid bond of five percent (5%) of the bid executed by a surety company licensed under the laws of North Carolina to execute the contract in accordance with the bid bond. Said deposit shall be retained by the owner as liquidated damages in event of failure of the successful bidder to execute the contract within ten days after the award or to give satisfactory surety as required by law.

A performance and payment bond will be required for one hundred percent (100%) of the contract price.

Payment will be made based on ninety-five percent (95%) of monthly estimates and final payment made upon completion and acceptance of work.

No bid may be withdrawn after the scheduled closing time for the receipt of bids for a period of 30 days.

The owner reserves the right to reject any or all bids and to waive informalities.

Bidders who will not attend the Bid Opening need to ensure their sealed bids are delivered no later than **1:00 pm on Tuesday, April 4, 2017** to the following:

Mailed Proposals:

Attn: Ms. Joyce Clay, Hickory Hall, Room 35B
The University of North Carolina at Charlotte
Facilities Management – Capital Projects
9201 University City Boulevard
Charlotte, NC 28223-0001

Or

Hand Delivered:

Attn: Ms. Joyce Clay – Capital Projects, Room 35B
Hickory Hall (#536 on the campus map)
Charlotte, NC 28223
(704) 687-0615

Designer:

ColeJenest & Stone
200 South Tryon Street, Suite 1400
Charlotte, NC 28202
(704) 376-1555

Owner:

The University of North Carolina at Charlotte
Hickory Hall, FM - Capital Projects
9201 University City Blvd
Charlotte, NC 28223
(704) 687-0615

STATE OF NORTH CAROLINA STANDARD FORM OF PROPOSAL

FOR

The University of North Carolina at Charlotte
Campus Circulation Improvements
Charlotte, NC
SCO# 16-14055
Code 41526, Item 310

BID/ACCEPTANCE FORM

for

Campus Circulation Improvements

The project scope includes the pedestrian and vehicular Improvements for the UNC Charlotte Campus including new sidewalks, bus drop-off, raised pedestrian crosswalk, signalized intersection and other landscape and hardscape improvements. The improvements are located at Wallis Hall, across from the Main Station, Cameron Blvd., Student Union and the J.W. Clay Station on the campus of the University of North Carolina at Charlotte.

The undersigned, as bidder, proposes and agrees if this bid is accepted to contract with the State of North Carolina through the University of North Carolina at Charlotte for the furnishing of all materials, equipment, and labor necessary to complete the construction of the work described in these documents in full and complete accordance with plans, specifications, and contract documents, and to the full and entire satisfaction of the University of North Carolina at Charlotte and ColeJenest & Stone, P.A. for the sum of:

BASE BID: _____ **Dollars \$**

Add Alternate #	Add Alternate Bid Price	Accepted (OWNER INITIALS)
1 Cameron Boulevard Project Area Improvements		
2 Student Union Project Area Improvements		
3 Brick Seal Paving Pattern in Sidewalk		
4 Add Bus Drop-off and widen sidewalk at the Main Station		
5 Add Signalized Intersection at the Main Station		
6A Landscape at Main Station		
6B Landscape at Main Station – ALT #4		
6C Landscape at J.W. Clay Station		
7 8' Brick Sidewalk at J.W. Clay Station		
8 6' Decorative Aluminum Fence at J.W. Clay Station		
9 Preferred Brand – Face Brick (Forterra Brick)		
10 Preferred Brand – Paver Brick (Pine Hall Brick Company)		

UNIT PRICES

Unit prices quoted and accepted shall apply throughout the life of the contract, except as otherwise specifically noted. Unit prices shall be applied, as appropriate, to compute the total value of changes in the base bid quantity of the work, all in accordance with the contract documents.

Unit Price A – Unsatisfactory Soil	\$ _____/C.Y.
Unit Price B – Trench Rock	\$ _____/C.Y.
Unit Price C – Pedestrian Brick Paver Sidewalk	\$ _____/S.F.
Unit Price D – Vehicular Brick Paver	\$ _____/S.F.
Unit Price E – Sod	\$ _____/S.F.
Unit Price F – Decorative Fence	\$ _____/L.F.

Addendum received and used in computing bid:

- Addendum No. 1 _____
- Addendum No. 2 _____
- Addendum No. 3 _____
- Addendum No. 4 _____

Respectively submitted this _____ day of _____ 20____

(Contractor's Name)

Federal ID#: _____

By: _____

Witness: _____

Title: _____

(Owner, partner, corp. Pres. Or Vice President)

(Proprietorship or Partnership)

Address: _____

Attest: (corporation)

Email Address: _____

(Corporate Seal)

By: _____ License #: _____

Title: _____

(Corporation, Secretary./Ass't Secretary.)

ACCEPTED by the STATE OF NORTH CAROLINA
through the University of North Carolina at Charlotte

Total amount of accepted by the owner, included base bid and bid alternates: _____

(Agency/Institution)

BY: _____ TITLE: _____

SECTION 01 23 00 - ALTERNATES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes administrative and procedural requirements for alternates.

1.2 DEFINITIONS

- A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the bidding requirements that may be added to or deducted from the base bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
 - 1. Alternates described in this Section are part of the Work only if enumerated in the Agreement.
 - 2. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

1.3 PROCEDURES

- A. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
 - 1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
- B. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated revisions to alternates.
- C. Execute accepted alternates under the same conditions as other work of the Contract.
- D. Schedule: A schedule of alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

PART 2 - PRODUCTS (Not Used)

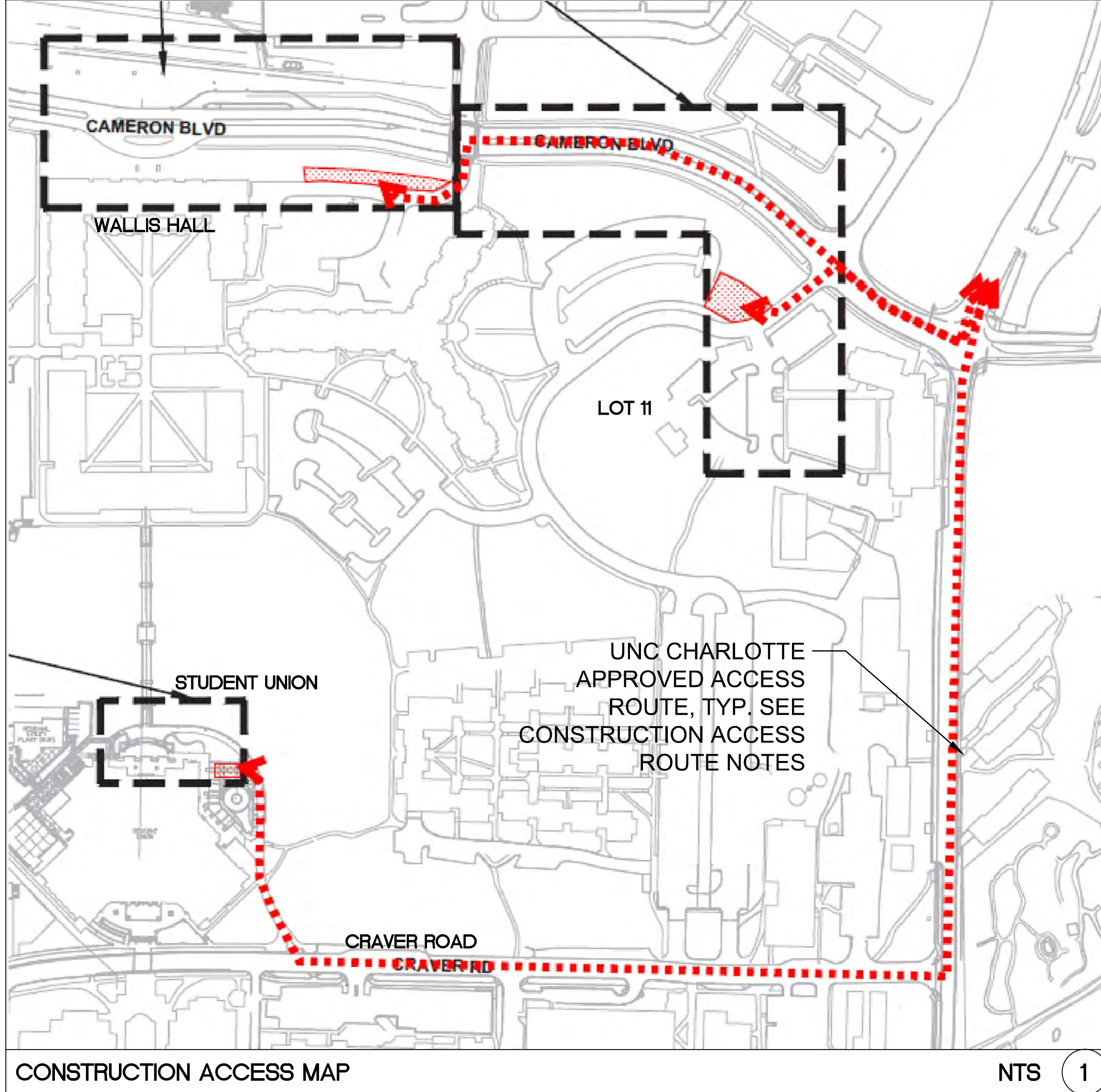
PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES

- A. Alternate No.1 : Cameron Boulevard Project Area Improvements
1. Description: Work to include the expansion and extension of brick sidewalks, crosswalks, parking lot modifications, retaining walls, and storm drainage additions and modifications, as noted on the plans.
 2. Base Bid: No work.
 3. Alternate: All work shown on drawings.
- B. Alternate No.2 : Student Union Project Area Improvements.
1. Description: Work to include the expansion and extension of brick sidewalks, stairs, retaining walls, railings as noted on the plans.
 2. Base Bid: No work.
 3. Alternate: All work shown on drawings.
- C. Alternate No.3 : Brick Seal Paving Pattern in Sidewalk
1. Description: Work to include the construction of the brick UNC Charlotte seal paving pattern at Wallis Hall.
 2. Base Bid: herringbone field
 3. Alternate: addition of seal pattern
- D. Alternate No. 4: Add Bus Drop-off and widen sidewalk at the Main Station
1. Description: Work to include adding heavy-duty concrete paving, widening existing brick walk to 8', adding additional curb and gutter, removal of trees, new emergency blue light and additional pedestrian light relocations. **Not including landscape; landscape is priced under Alternate 6B.**
 2. Base bid: As described on drawings.
 3. Alternate: As described on drawings.
- E. Alternate No.5: Add Signalized Intersection at the Main Station
1. Description: Work to include adding the pedestrian and traffic signal poles, bases, electrical boxes and panels, wiring and signal heads.
 2. Base Bid: Install conduit for the wiring only (including the caps for the conduit and pull strings) as indicated on drawings.
 3. Alternate: Complete signal system.
- F. Alternate 6A: Landscape at Main Station
1. Description: Work will include installation of proposed plant material (plants and sod) 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.
 2. Base Bid: **Planting bed and soil preparation/topsoil installation per Specification 329200 and 329300, with seed and mulch only.**
 3. Alternate: **Complete landscape per drawings.**

- G. Alternate 6B: Landscape at Main Station – ALT #4
1. Description: Work will include installation of proposed plant material (plants and sod) to be located in existing and proposed planting beds in front of Wallis Hall. Additionally, sod 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.
 2. Base Bid: Planting bed and soil preparation/topsoil installation per Specification 329200 and 329300, with seed and mulch only.
 3. Alternate: Complete landscape per drawings.
- H. Alternate 6C: Landscape at J.W. Clay Station
1. Description: Work will include installation of sod between existing back of curb on JW Clay Blvd. and edge of sidewalk.
 2. Base Bid: Planting bed and soil preparation/topsoil installation per Specification 329200 and 329300, with seed and mulch only.
 3. Alternate: Complete landscape per drawings.
- I. Alternate No.7: 8' Brick Sidewalk at J.W. Clay Station
1. Description: Work to include adding the 8' brick sidewalk in lieu of the 8' concrete sidewalk. See Sheet C-203 and Details 1-3 on Sheet C-800.
 2. Base Bid: Concrete walk.
 3. Alternate: Brick walk per drawings.
- J. Alternate No.8: 6' Decorative Aluminum Fence at J.W. Clay Station
1. Description: Work to include adding aluminum fencing as shown on Sheet C-203 and on Detail 1 on Sheet C-802.
 2. Base Bid: No fence.
 3. Alternate: Install fence per drawings.
- K. Preferred Brand Alternate No.9: Face Brick
1. Description: Utilize Owner's preferred brand: "Morrocroft Special" #02-79-1 manufactured by Forterra Brick for all face brick per Specification 042000.
- L. Preferred Brand Alternate No.10: Paver Brick
1. Description: Utilize Owner's preferred brand: "Pine Hall Brick Company" for all paver brick (pedestrian, vehicular and ADA) per Specification 321400.

END OF SECTION



CONSTRUCTION ACCESS MAP

NTS 1

CONSTRUCTION ACCESS ROUTES

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

CAMERON BLVD./LOT 11 - ALTERNATE #1
CONTRACTOR SHALL ONLY USE THE FOLLOWING ACCESS ROUTE: MALLARD CREEK CHURCH RD., MARY ALEXANDER RD., CAMERON BLVD., POPLAR 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.

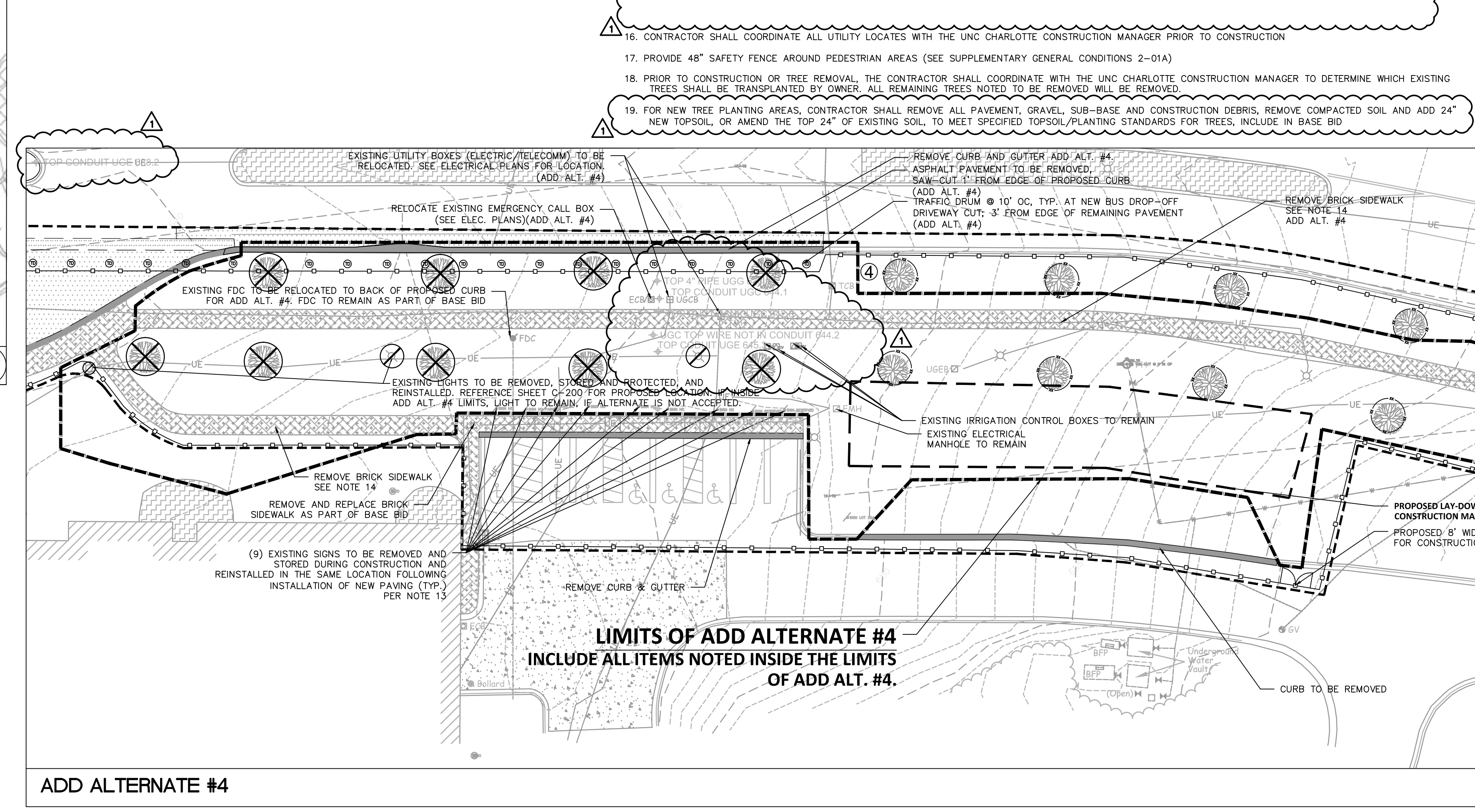
ADD ALTERNATE #6B - LANDSCAPE AT MAIN STATION

WORK WILL 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.

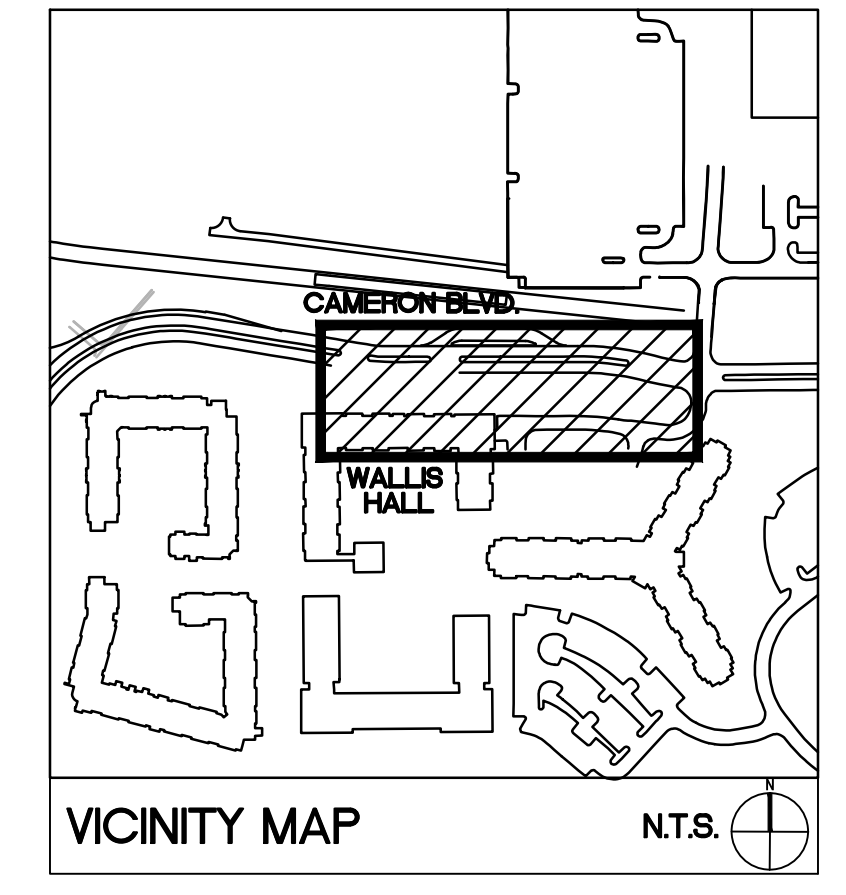
UNC CHARLOTTE APPROVED ACCESS ROUTE, TYP. SEE CONSTRUCTION ACCESS ROUTE NOTES

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 OWNERS SO AS NOT TO ADVERSELY AFFECT THE PROJECT 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 REINSTALLATION 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.



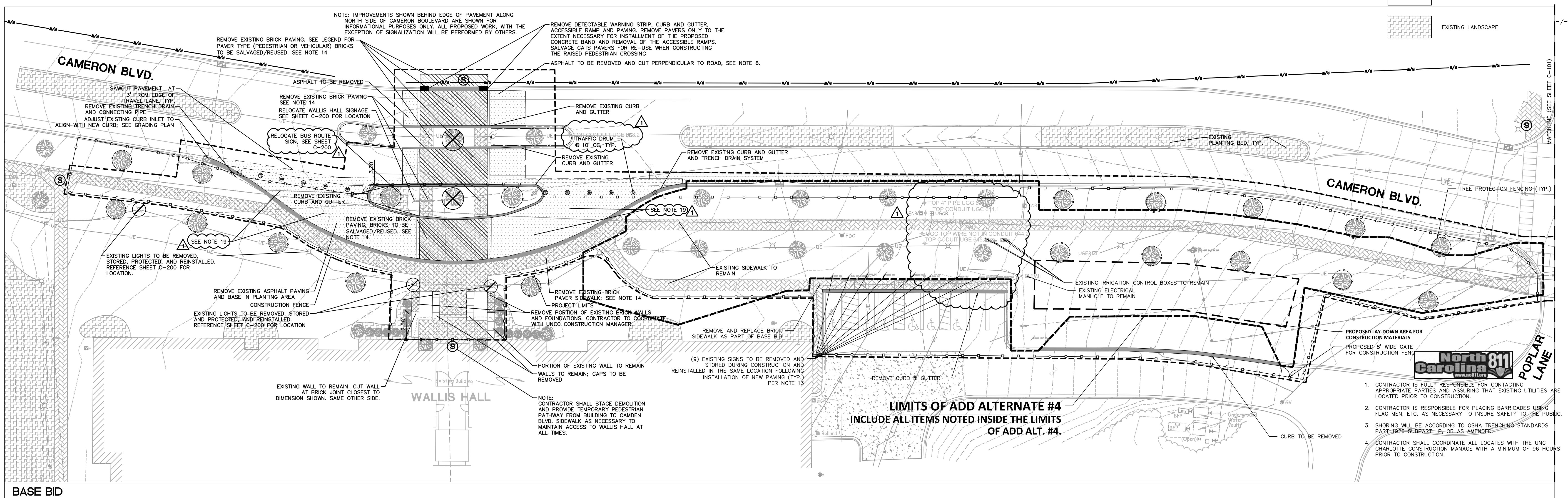
ADD ALTERNATE #4



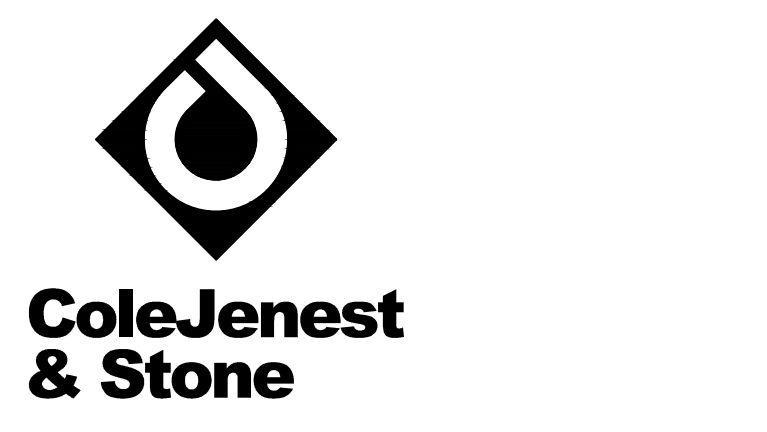
SURVEY DISCLAIMER
TOPOGRAPHIC SURVEY ISSUE DATE NOVEMBER 7, 2016.
PROVIDED BY ALLEN GEOMATICS, P.C., PO BOX 89 ADVANCE, NC, 27006 336-998-0218.

LEGEND

SYMBOL	DESCRIPTION	SCALE
[Pattern]	ASPHALT TO BE REMOVED	-/-
[Pattern]	PEDESTRIAN PAVERS TO BE REMOVED SEE NOTE 14	-/-
[Pattern]	VEHICULAR PAVERS TO BE REMOVED	-/-
[Pattern]	CURB TO BE REMOVED	-/-
[Pattern]	VEGETATION TO BE REMOVED	-/-
[Symbol]	TREE TO BE REMOVED (SEE NOTE 18)	-/-
[Symbol]	EXISTING TREE (APPROXIMATE LOCATION)	-/-
[Symbol]	EXISTING PEDESTRIAN LIGHT POLE	-/-
[Symbol]	LIGHT FIXTURE TO BE RELOCATED	-/-
[Symbol]	TREE PROTECTION FENCING	18/C-801
[Symbol]	PROJECT LIMIT	-/-
[Symbol]	CONSTRUCTION FENCE	-/-
[Symbol]	SIDEWALK CLOSED SIGN	-/-
[Symbol]	TRAFFIC DRUM	-/-
[Symbol]	ADD ALTERNATE LIMITS	-/-
[Pattern]	EXISTING LANDSCAPE	-/-



BASE BID



Shaping the Environment
Realizing the Possibilities

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9201 University City Blvd
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CAMPUS CIRCULATION IMPROVEMENTS

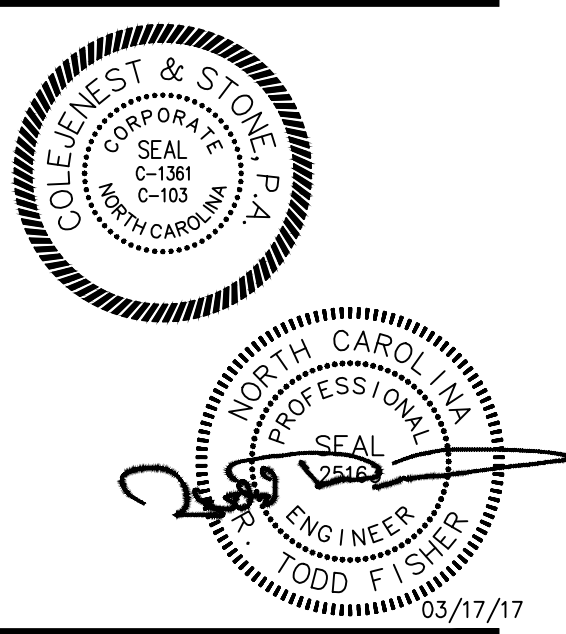
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CODE 41526 ITEM 310

MAIN STATION - DEMOLITION PLAN

Project No.
4496

Issued
03/08/2017 - BID SET

Revised
3/17/17 - ADDENDUM #1

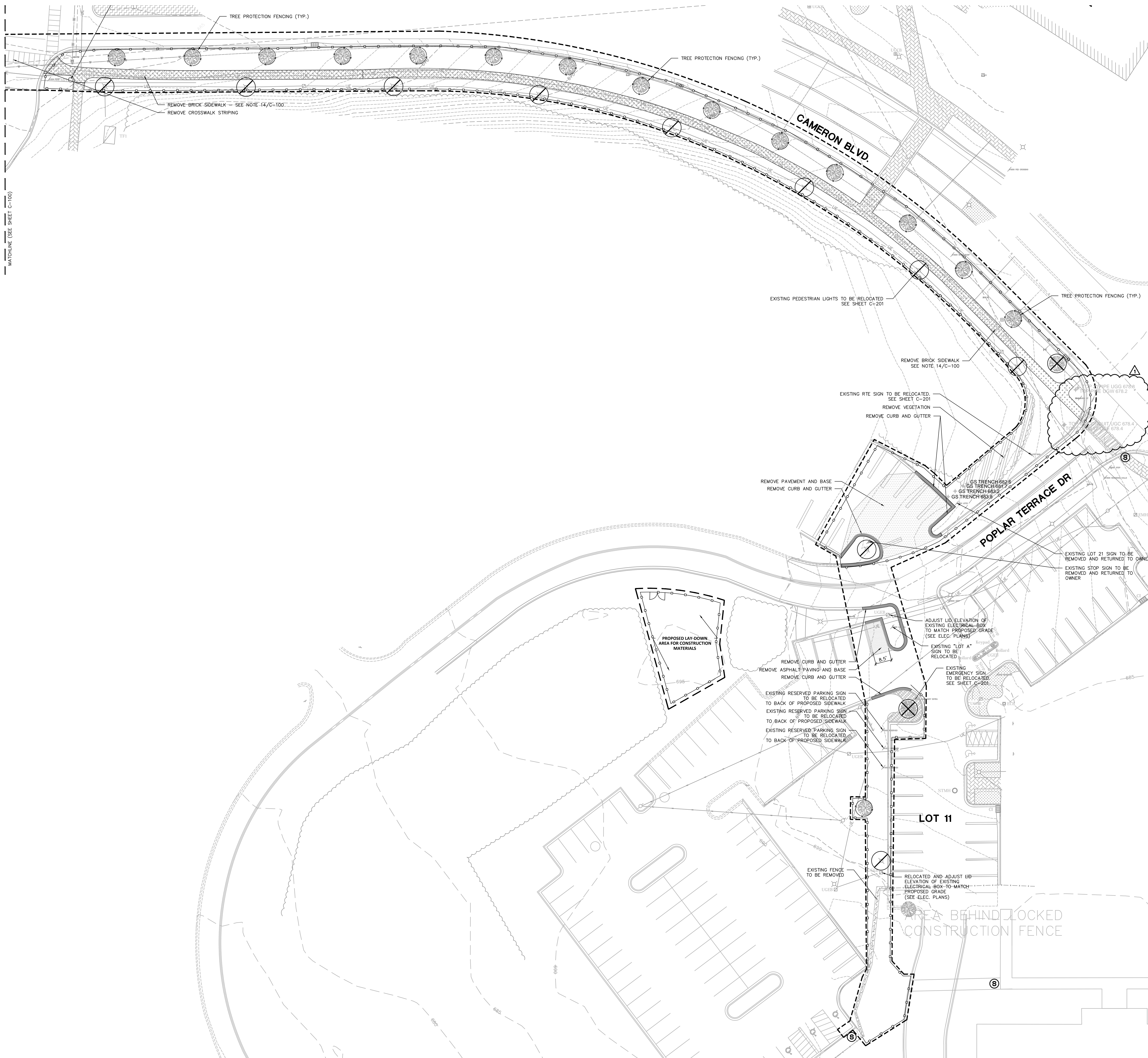


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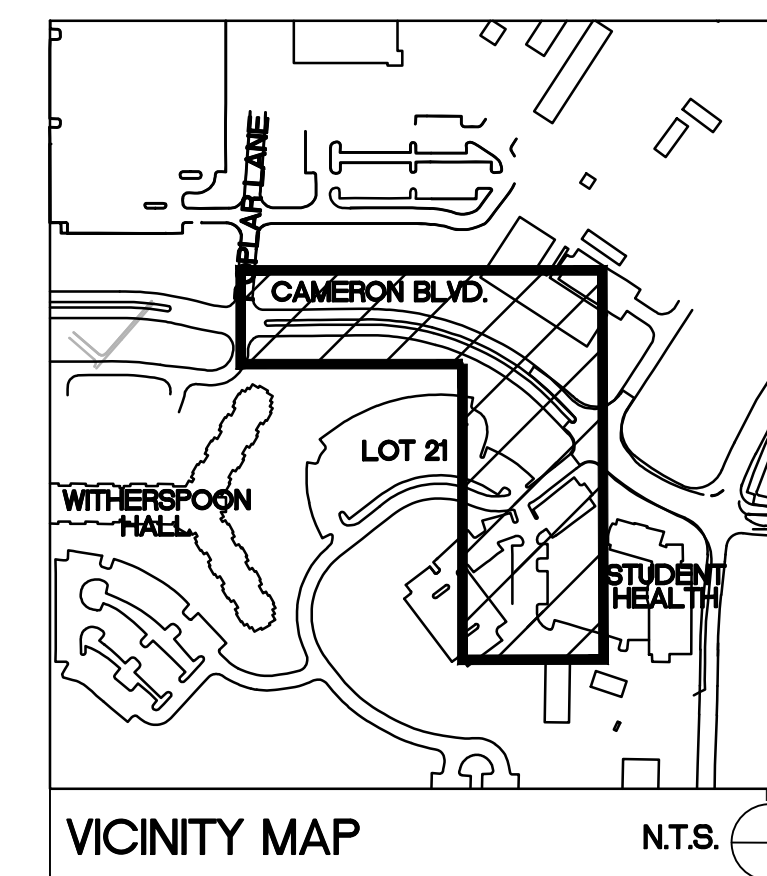
C-100
(BASE BID / ALT #4)

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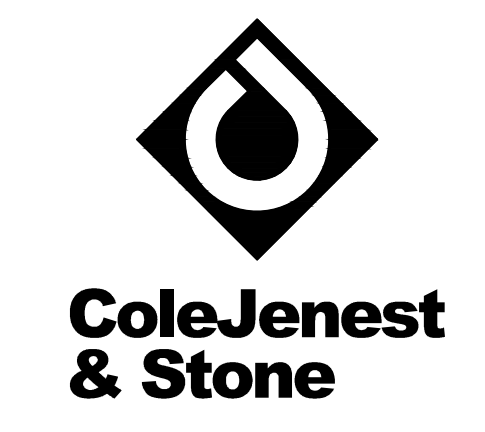
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MATCHLINE (SEE SHEET C-100)



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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

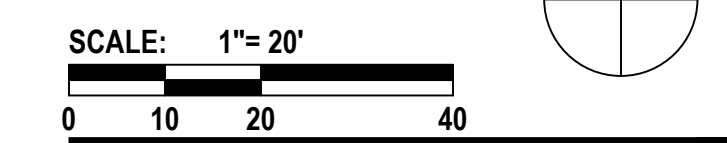
LEGEND

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



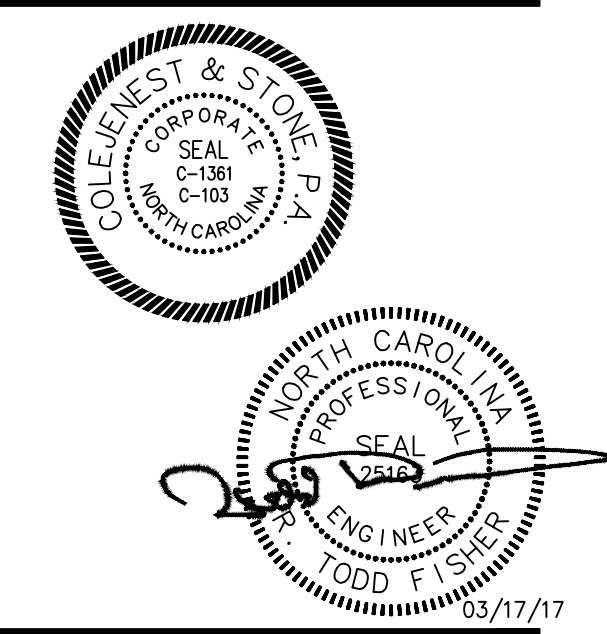
- CONTRACTOR IS FULLY RESPONSIBLE FOR CONTACTING APPROPRIATE PARTIES AND ASSURING THAT EXISTING UTILITIES ARE LOCATED PRIOR TO CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR PLACING BARRICADES USING FLAG MEN, ETC. AS NECESSARY TO INSURE SAFETY TO THE PUBLIC.
- SHORING WILL BE ACCORDING TO OSHA TRENCHING 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.

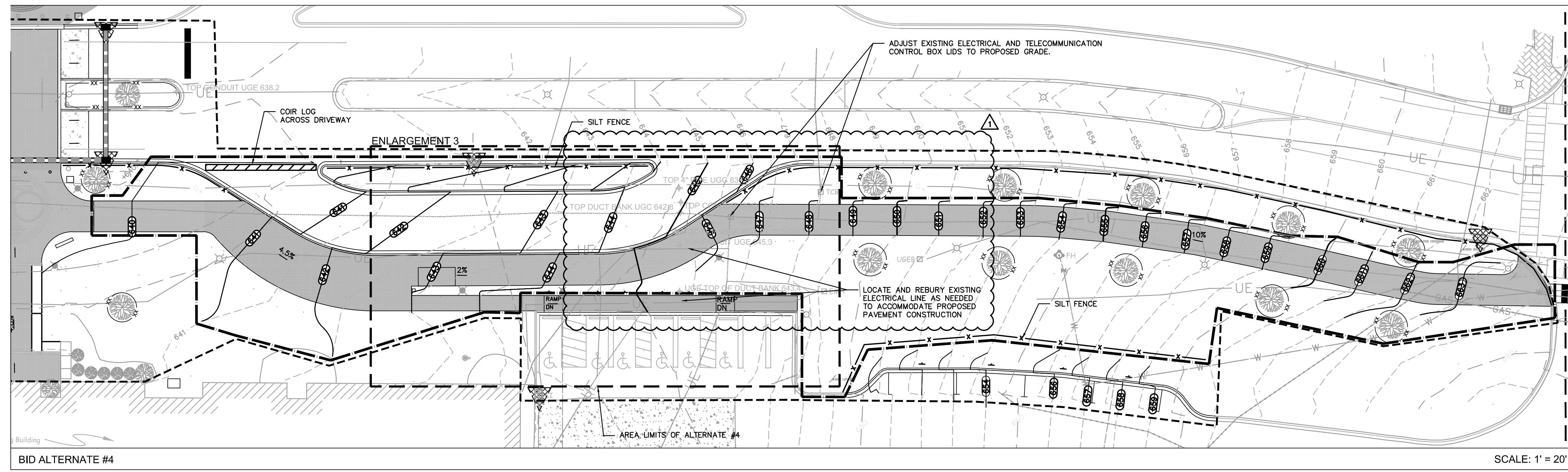
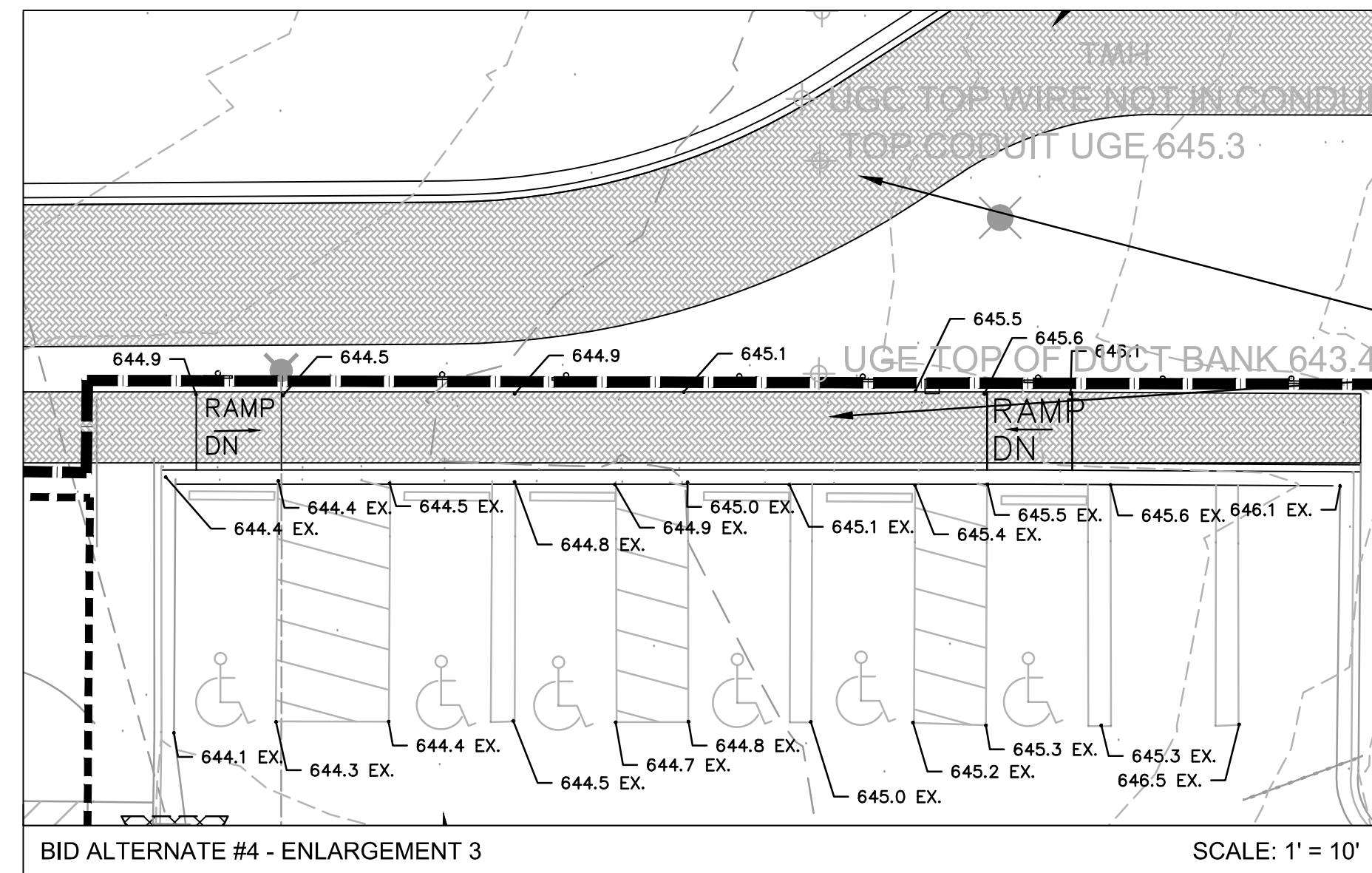
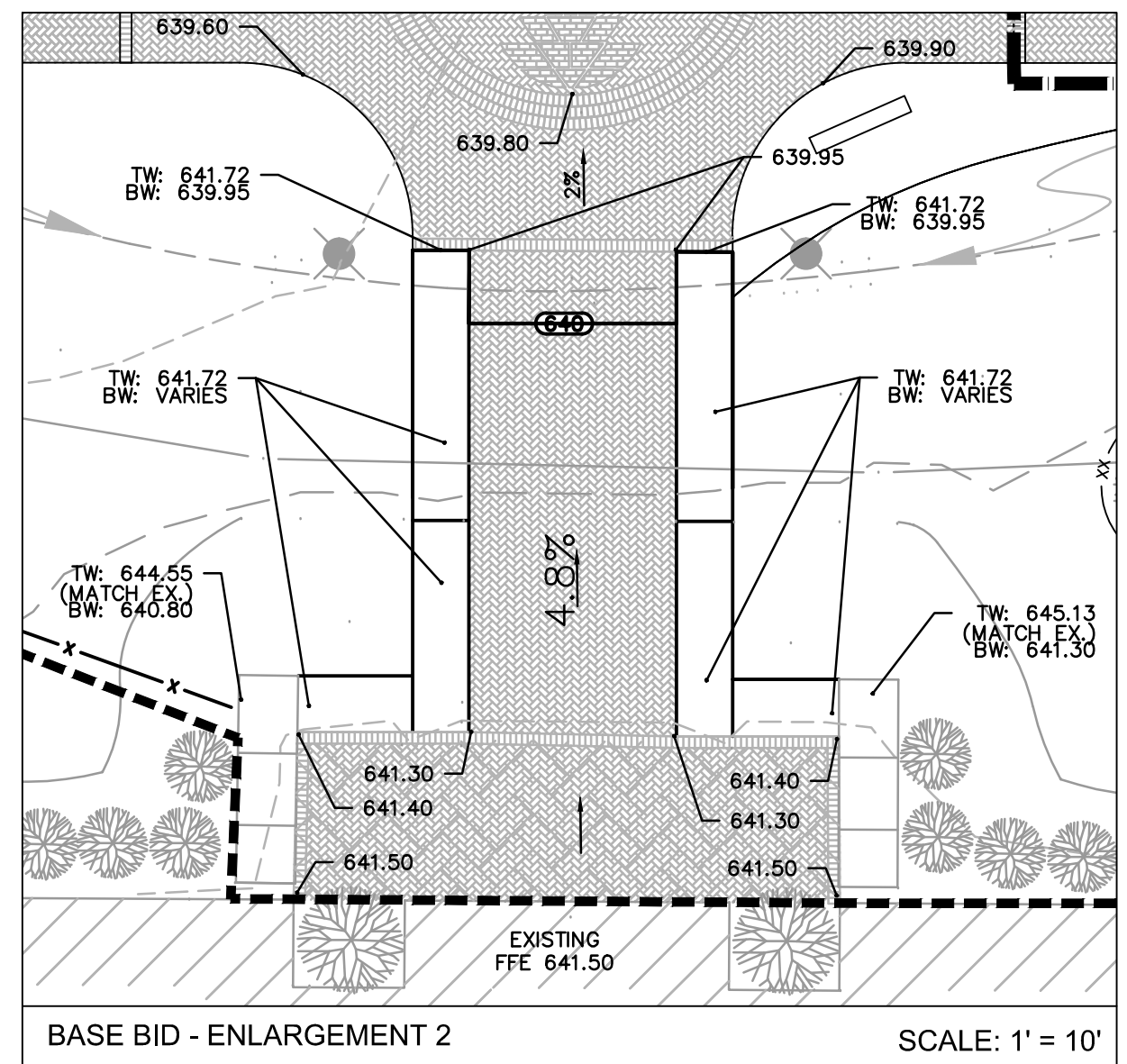
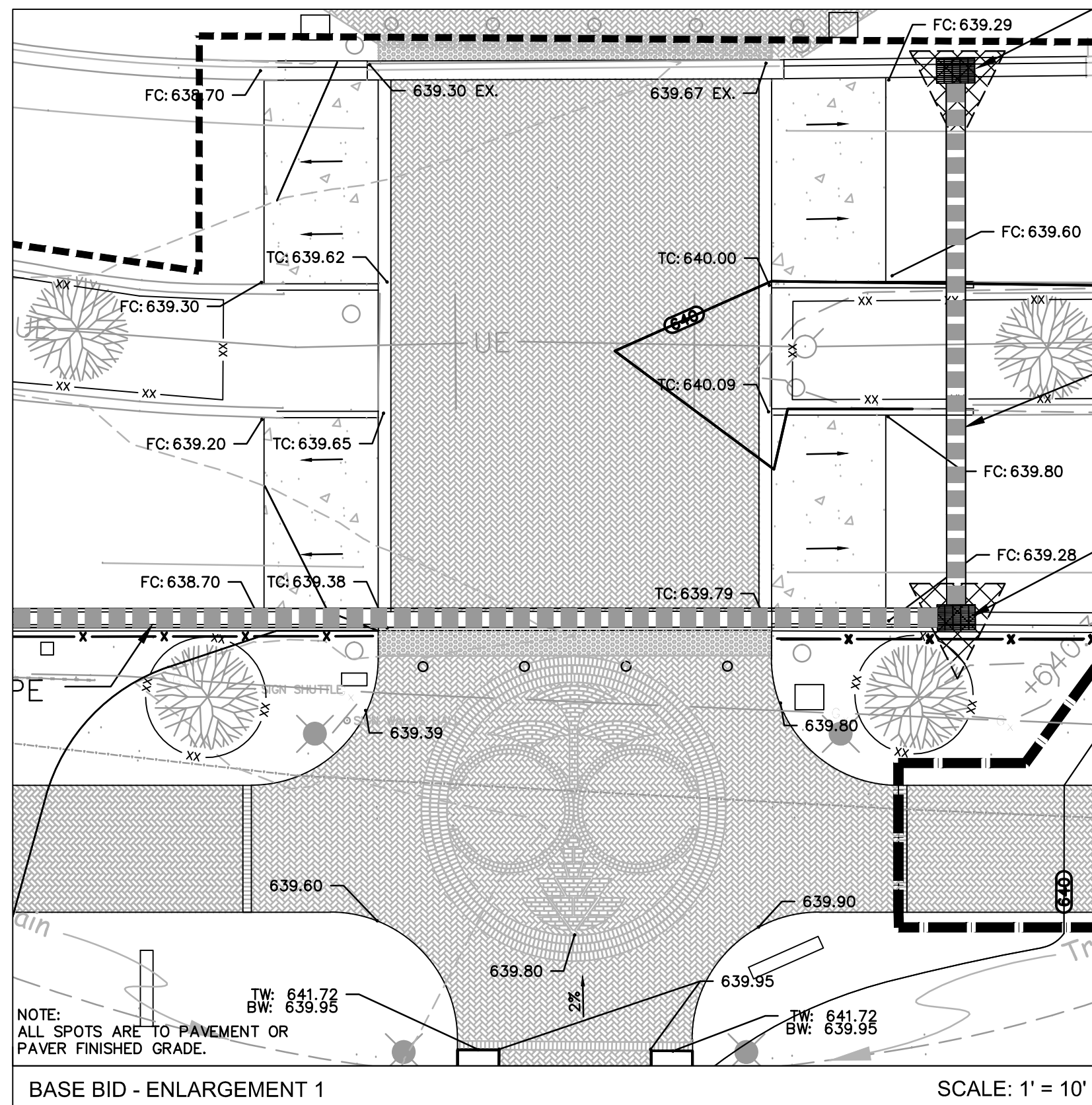


**C-101
 (ADD ALTERNATE #1)**

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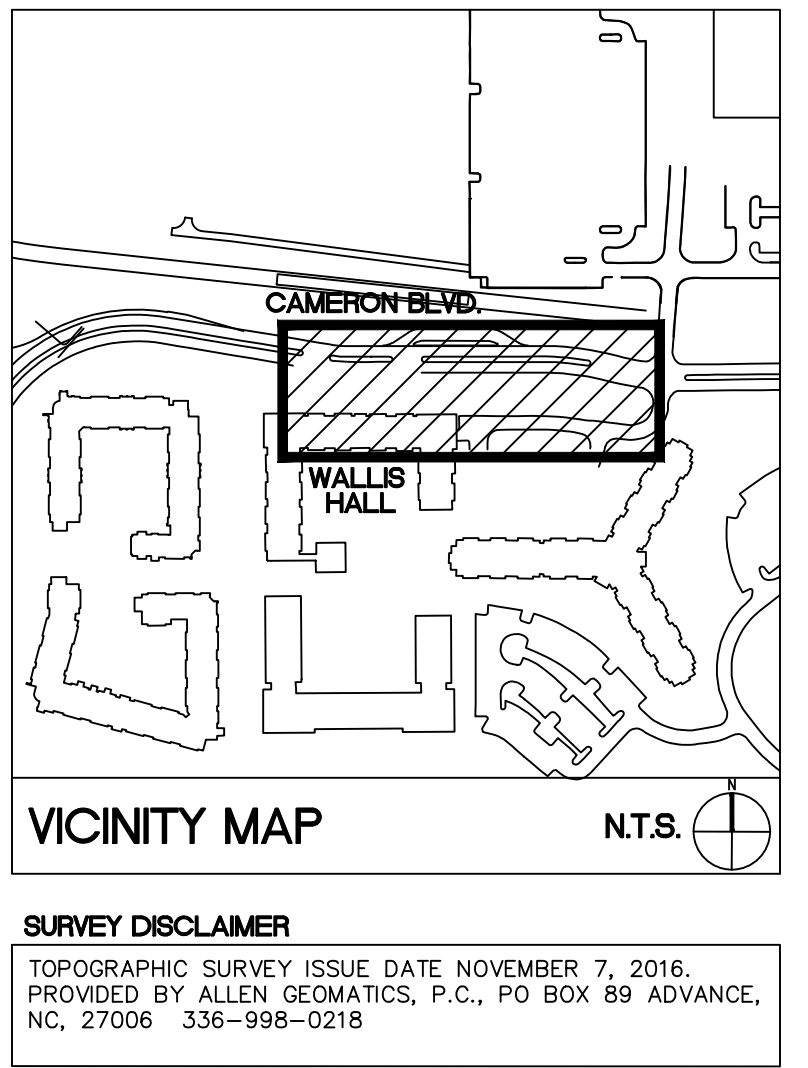
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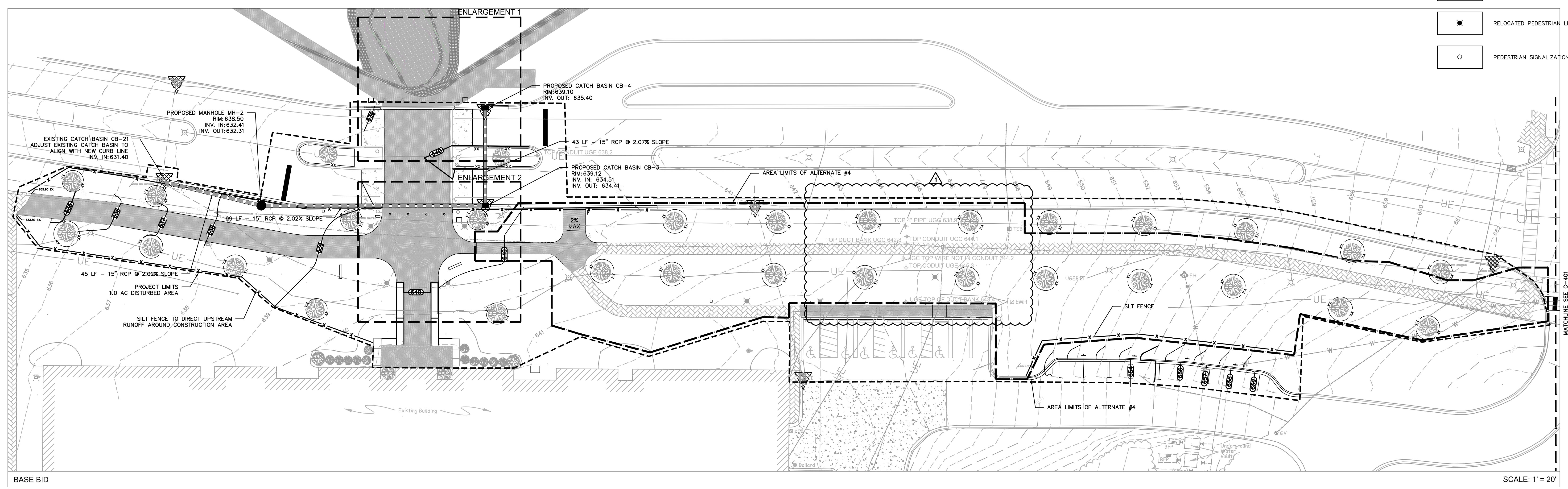
GRADING AND EARTHWORK NOTES

- 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 COMPACTION 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 SITE SOILS FOR USE AS FILL BENEATH PROPOSED BUILDINGS, DRIVEWAYS, PARKING AREAS, OR FOR OTHER USES. ALL EARTHWORK SHALL BE COMPLETED IN ACCORDANCE WITH THE RECOMMENDATIONS OF A QUALIFIED GEOTECHNICAL ENGINEER WHO SHALL BE RETAINED BY THE OWNER.
- ALL FILL SHALL BE PLACED IN MAXIMUM 8-INCH LIFTS AND COMPACTED. ALL FILL WITHIN LIMITS OF BUILDING AND PAVEMENT AREAS SHALL BE COMPACTED TO 100% OF MAXIMUM STANDARD PROCTOR DENSITY WITHIN THE TOP 12 INCHES AND A MINIMUM 90% OF MAXIMUM STANDARD PROCTOR DENSITY BELOW 12-INCH DEPTH. FILL WITHIN LANDSCAPED AREAS SHALL BE COMPACTED TO MINIMUM 90% OF MAXIMUM STANDARD PROCTOR DENSITY. MAXIMUM STANDARD PROCTOR DENSITY SHALL BE DETERMINED IN ACCORDANCE WITH ASTM D 698. REFER TO GEOTECHNICAL ENGINEER'S REPORT FOR ADDITIONAL EARTHWORK SPECIFICATIONS AND REQUIREMENTS.
- FOR SLOPE CONSTRUCTION 3:1 AND STEEPER AND EXCEEDING 5 FEET IN VERTICAL HEIGHT, THE CONTRACTOR SHALL COORDINATE WITH A GEOTECHNICAL ENGINEER ON 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, STAINED 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 MOIST 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 FEET 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 LANDING 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.
 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

SYMBOL	DESCRIPTION	NOTES
(Solid line)	PROPOSED CONTOUR	
(Dashed line)	PROPOSED INDEX CONTOUR	
(Number in circle)	PROPOSED SPOT ELEVATION	100.00
(Arrow pointing up)	PROPOSED HIGH POINT	
(Arrow pointing down)	PROPOSED DRAINAGE SWALE	
(Dashed line with 'AD')	PROPOSED STORM DRAINAGE	11/C-802
(Dashed line with 'AD')	PROPOSED AREA DRAIN	8/C-802
(Line with 'x')	SILT FENCE	7/C-802
(Line with 'x')	TREE PROTECTION FENCING	18/C-801
(Triangle in circle)	CATCH BASIN INLET PROTECTION	6/C-802
(Dashed line)	PROJECT LIMIT	-/-
(Line with 'CB')	PROPOSED CATCH BASIN	10,11/C-801
(Line with 'MH')	PROPOSED MANHOLE	20/C-801
(Dashed line)	ADD ALTERNATE LIMITS	
(Square with 'X')	EXISTING PEDESTRIAN LIGHTING	-/-
(Square with 'X')	RELOCATED PEDESTRIAN LIGHTING	-/-
(Circle with 'O')	PEDESTRIAN SIGNALIZATION	-/-



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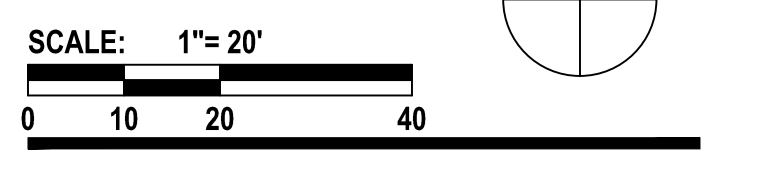
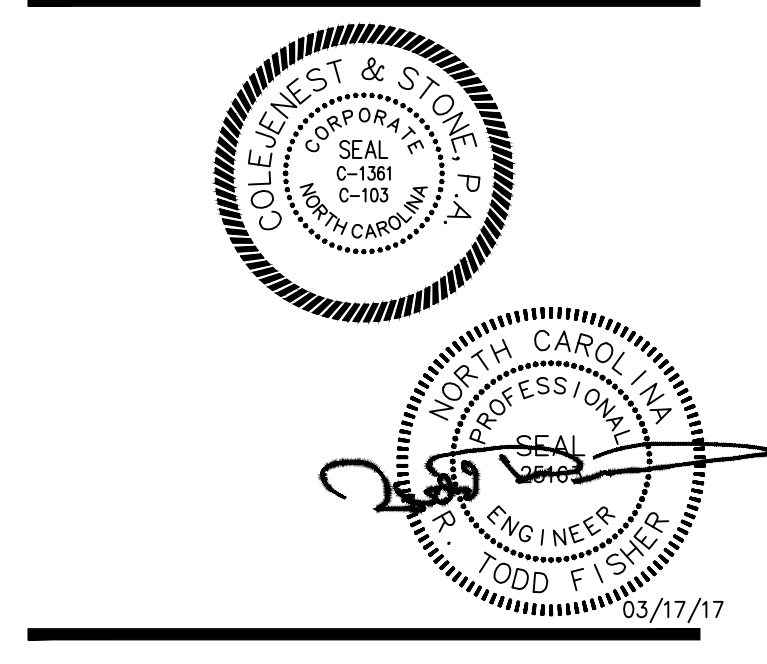
CAMPUS CIRCULATION IMPROVEMENTS

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

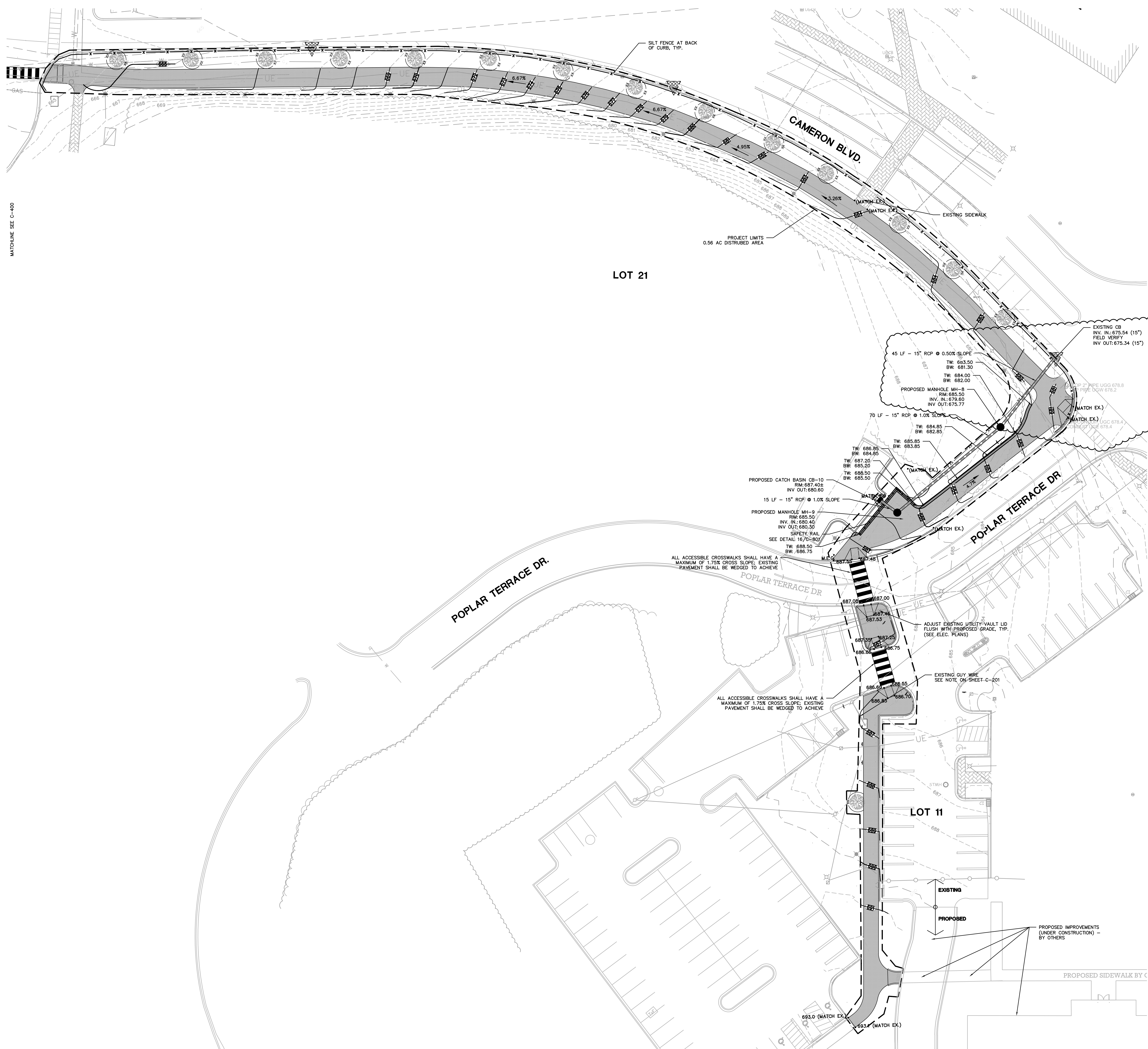
Revised 3/17/17 - ADDENDUM #1



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

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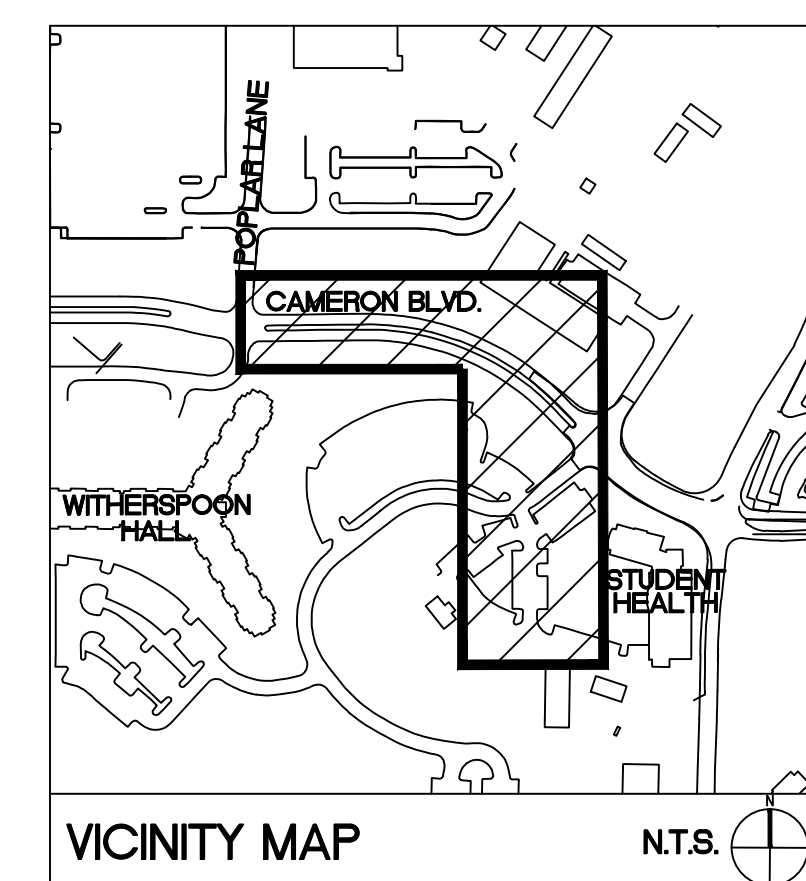
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MATCHLINE SEE C-400

LOT 21

LOT 11



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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	NC DOT 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.

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CAMPUS CIRCULATION IMPROVEMENTS

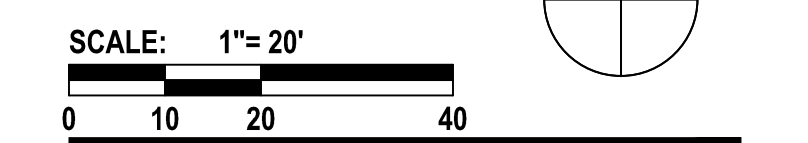
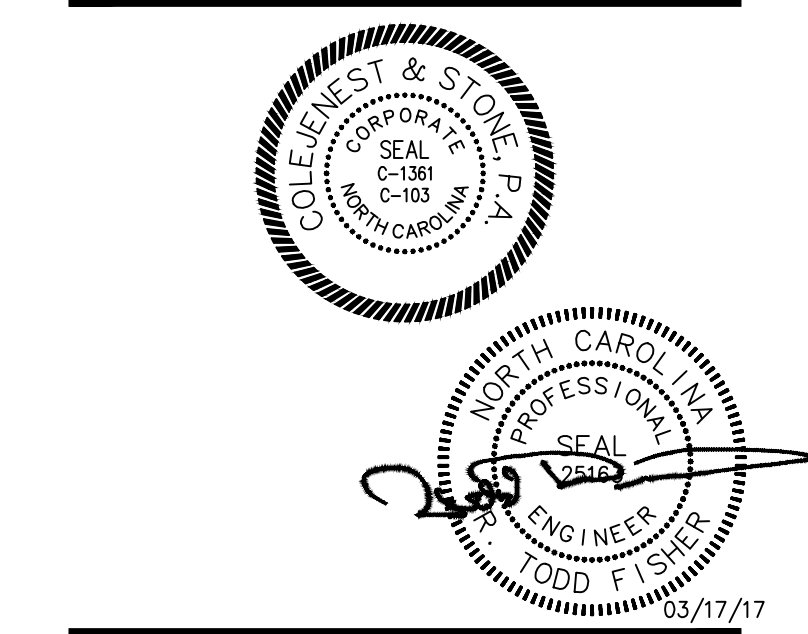
SCO ID# 16-14055
 CODE 41526 ITEM 310

CAMERON BLVD. GRADING, DRAINAGE, AND EROSION PLAN

Project No. **4496**

Issued 03/08/2017 - BID SET

Revised 3/17/17 - ADDENDUM #1



C-401 (ADD ALTERNATE #1)

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- 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.

PLANT SCHEDULE BASE BID

QUANTITY	PROPOSED PLANT TYPE	PROPOSED PLANT SIZE	PLANT SPACING
5,259 SQ. FT.	SEED (SEE SPECIFICATIONS)	-	

PLANT SCHEDULE ALTERNATE #6A

QUANTITY	PROPOSED PLANT TYPE	PROPOSED PLANT SIZE	PLANT SPACING
2	LIVE OAK	4" CAL	AS SHOWN
2	CAMELLIA 'MAGNOLIAEFLORA'	36"-48" HT	AS SHOWN
50	LEUCODHÆ 'RAINBOW'	18"-24" SPR.	AS SHOWN
160	'WHITE PEARL' LENTEN ROSE	8"-12" HT.	AS SHOWN
5,259 SQ. FT.	SOD (SEE SPECIFICATIONS)	-	

PLANT SCHEDULE ALTERNATE #6B

QUANTITY	PROPOSED PLANT TYPE	PROPOSED PLANT SIZE	PLANT SPACING
5	'WIRT L. WINN' HOLLY	7"-8" HT.	AS SHOWN
3	LIVE OAK	4" CAL	AS SHOWN
2	CAMELLIA 'MAGNOLIAEFLORA'	36"-48" HT	AS SHOWN
50	LEUCODHÆ 'RAINBOW'	18"-24" SPR.	AS SHOWN
160	'WHITE PEARL' LENTEN ROSE	8"-12" HT.	AS SHOWN
364	LIRIOPE SPICATA	8"-12" HT.	AS SHOWN
9,857 SQ. FT.	SOD (SEE SPECIFICATIONS)	-	

PLANTING NOTES

1. SIZE AND GRADING STANDARDS FOR PLANT MATERIAL SHALL CONFORM TO THE LATEST EDITION OF "USA STANDARDS FOR NURSERY STOCK", BY THE AMERICAN ASSOCIATION OF NURSERMAN, INC.
2. HEIGHT AND WIDTH SPECIFICATIONS INDICATED ON PLAN SHALL TAKE PRECEDENCE OVER CONTAINER SIZE AND CALIPER.
3. CONTRACTOR SHALL MULCH ALL SHRUB BEDS WITH 4" AGED SHREDDED HARDWOOD BARK. CONTRACTOR SHALL MULCH ALL ANNUAL/PERENNIAL BEDS WITH 1" PINE BARK FINES.
4. ALL DISTURBED AREAS NOT OTHERWISE PLANTED SHALL BE SEED BY THE CONTRACTOR (BASE BID) OR SODDED BY THE CONTRACTOR (BD ALT #A/#B).
5. CONTRACTOR SHALL REMOVE ALL HARD LUMPS OF CLAY, STONES OVER 1" IN DIAMETER, AND ALL CONSTRUCTION DEBRIS INCLUDING GRAVEL, ROOTS, LIMBS AND OTHER DILETTIOUS MATTER WHICH WOULD BE HARMFUL OR PREVENT PROPER ESTABLISHMENT AND/OR MAINTENANCE OF LAWN AND PLANTING AREAS.
6. IN AREAS WHERE CONSTRUCTION GRAVEL IS EMBEDDED IN THE SOIL, CONTRACTOR SHALL REMOVE CONTAMINATED SOIL TO A DEPTH OF 18" AND FILL WITH CLEAN TOPSOIL. CONTRACTOR SHALL IMPORT TOPSOIL AT NO CHARGE TO OWNER IF REQUIRED TO FILL THESE EXCAVATIONS.
7. CONTRACTOR SHALL RESOD LAWN AREAS DAMAGED DUE TO PLANT MATERIAL INSTALLATION.
8. ALL STRAPPING AND TOP 2/3 OF WIRE BASKET SHALL BE CUT AWAY AND REMOVED BY THE CONTRACTOR FROM ROOT BALL PRIOR TO BACKFILLING PLANTING PIT. CONTRACTOR SHALL REMOVE TOP 1/3 OF THE BURLAP FROM ROOT BALL.
9. LARGE MATURING TREES SHALL BE A MINIMUM 25 TO 30 FEET FROM OVERHEAD DISTRIBUTION OR TRANSMISSION LINES. IF TREES CONFLICT WITH POWER LINES OR SIGNS, CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT TO RESOLVE BEFORE PLANTING.
10. MINIMUM TREE SIZE AT PLANTING SHALL BE 3 INCH CALIPER FOR LARGE MATURING TREES AND 2 INCH CALIPER FOR SMALL MATURING TREES. ALL MULTI-STEM PLANTS SHALL BE TREE FORM, MAXIMUM THREE TO FIVE TRUNKS, AND A MINIMUM EIGHT FEET TALL.
11. INSTALLER SHALL BE RESPONSIBLE TO REPAIR OR REPLACE PLANTINGS THAT FAIL IN MATERIALS, WORKMANSHIP, OR GROWTH WITHIN SPECIFIED WARRANTY PERIOD (ONE YEAR FROM DATE OF FINAL ACCEPTANCE BY OWNER).
12. FOR SEEDING AREAS, AN ACCEPTABLE LAWN AT THE END OF THE MAINTENANCE PERIOD SHALL CONSIST OF A HEALTHY, UNIFORM, CLOSE STAND OF GRASS, FREE OF WEEDS AND SURFACE IRREGULARITIES, WITH TOTAL GRASS COVERAGE EXCEEDING 90 PERCENT OVER ANY 10 SQ. FT. AND BARE SPOTS NOT EXCEEDING 3 BY 3 INCHES, WITH AT LEAST 50% OF THE TOTAL GRASS COVERAGE CONSISTING OF THE SPECIFIED GRASS SPECIES.
13. ANY AND ALL DAMAGE TO EXISTING IRRIGATION SYSTEM IS THE CONTRACTOR'S RESPONSIBILITY TO REPAIR. CONTRACTOR TO COORDINATE WITH CONSTRUCTION MANAGER TO ENSURE IRRIGATION TEAM INSPECTS THE REPAIR WORK BEFORE IT IS COVERED UP.

TREE PROTECTION NOTES

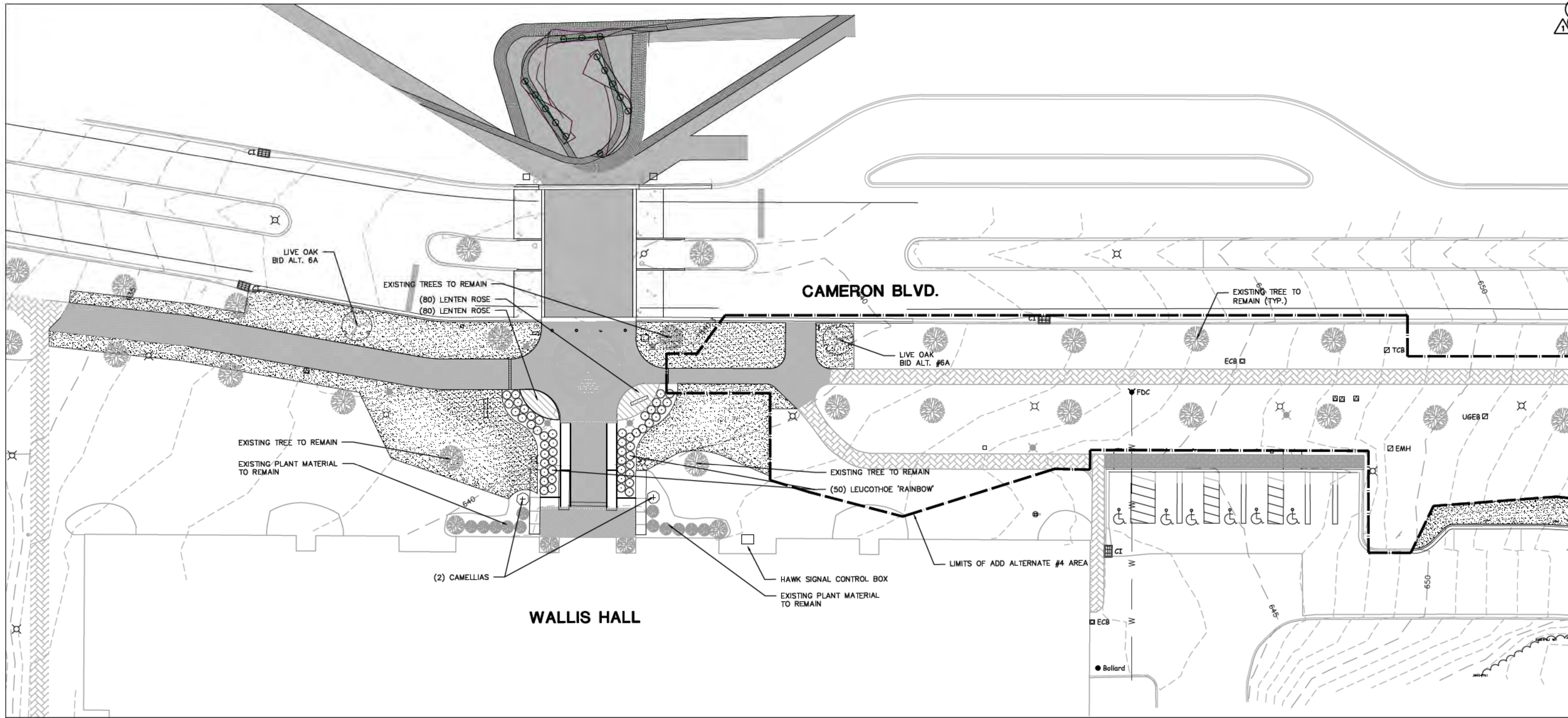
1. TREE PROTECTION FENCING MUST BE INSTALLED BEFORE ANY DEMOLITION, CLEARING OR GRADING BEGINS, AND NOT REMOVED UNTIL FINAL INSPECTION.
2. THE TREE PROTECTION FENCE SHALL BE LOCATED ALONG THE PERIMETER OF THE TREE SAVE AREA (TRIP LINE PLUS 5 FEET). TREE PROTECTION FENCING FOR A FOREST CANOPY STAND AREA IS TO BE LOCATED ALONG THE PERIMETER OF THE TREE SAVE AREA AROUND THE FOREST EDGE. TREE PROTECTION FENCING SHALL CONSIST OF ORANGE SAFETY FENCING OR A COMBINATION OF ORANGE SAFETY FENCING WITH SILT FENCING AT A MINIMUM OF 4 FEET IN HEIGHT ON METAL OR WOOD POSTS.
3. NO SOIL DISTURBANCE OR COMPACTION, STOCK PILING OF SOIL OR OTHER CONSTRUCTION MATERIAL, VEHICULAR TRAFFIC, OR STORAGE OF EQUIPMENT AND MATERIALS ARE ALLOWED WITHIN THE TREE SAVE AREA.
4. NO ROPES, SIGNS, WIRES, UNPROTECTED ELECTRICAL INSTALLATION OR OTHER DEVICE OR MATERIAL SHALL BE SECURED OR FASTENED AROUND OR THROUGH A TREE OR SHRUB.
5. ALL PROTECTIVE MEASURES SHALL BE MAINTAINED THROUGHOUT THE LAND DISTURBING AND CONSTRUCTION PROCESS, AND SHALL NOT BE REMOVED UNTIL FINAL LANDSCAPING IS INSTALLED.

LEGEND

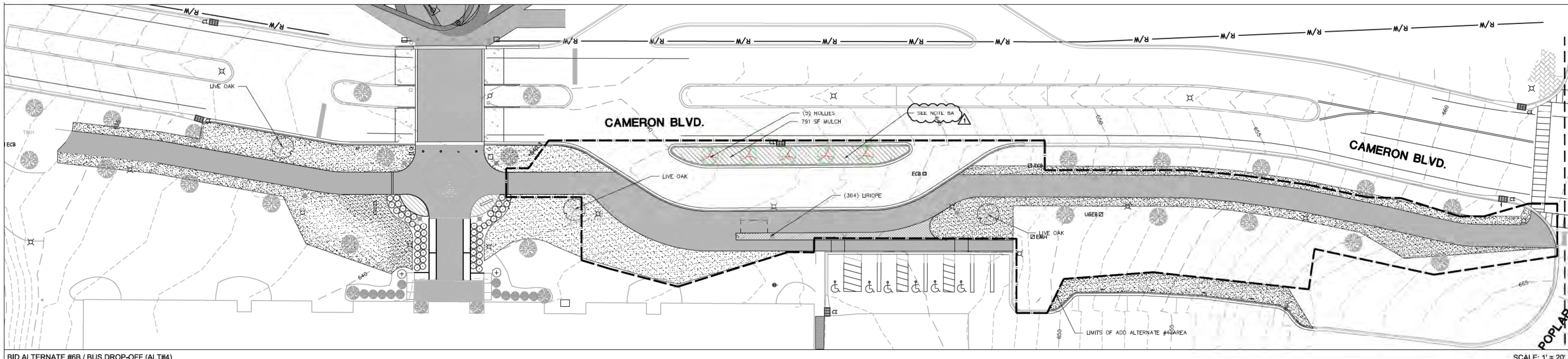
SYMBOL	DESCRIPTION	DETAIL
	EXISTING TREELINE	-/-
	PROPOSED TREELINE	-/-
	EXISTING TREE	-/-
	PROPOSED TREE	17/C-801
	PROPOSED SHRUBS	17/C-801
	PROPOSED GROUNDCOVER	-/-
	PROPOSED SOD	-/-
	PROPOSED LIGHT FIXTURE SEE ELECTRICAL PLAN	-/-

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VICINITY MAP N.T.S.



BID ALTERNATE #6A SCALE: 1" = 20'



BID ALTERNATE #6B / BUS DROP-OFF (ALT#4) SCALE: 1" = 20'

BASE BID: INCLUDES PLANTING BED AND SOIL PREPARATION/TOPSOIL INSTALLATION PER SPECIFICATION 329000 AND 329300, WITH SEED AND MULCH ONLY. ALL PLANT MATERIAL OTHER THAN SEED AND MULCH IS BID AS ALTERNATE.

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

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SCO ID# 16-14055
 CODE 41526 ITEM 310

MAIN STATION - PLANTING PLAN (WALLIS HALL)

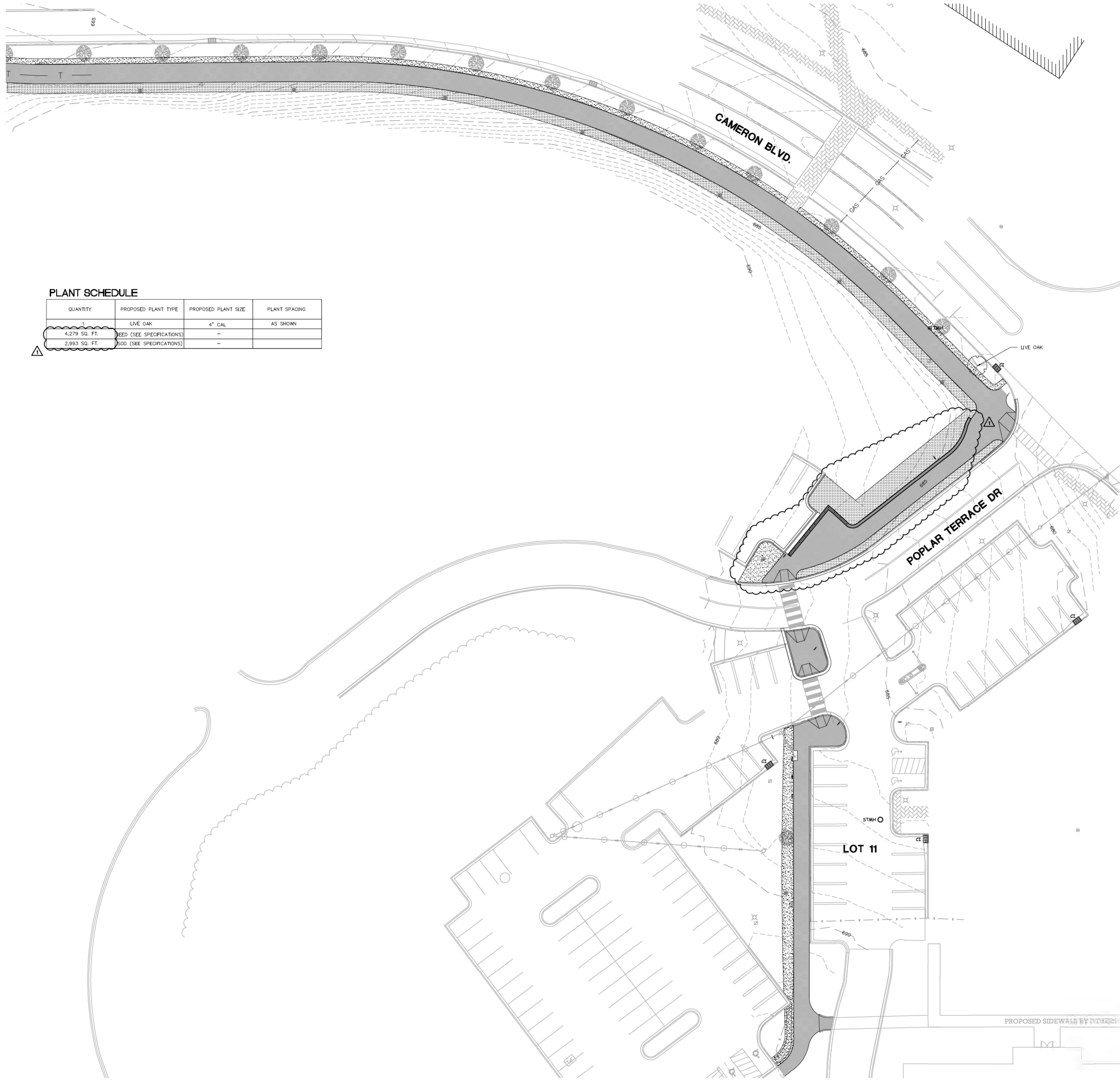
Project No. 4496
 Issued 03/08/2017 - BID SET

Revised 03/17/17 - ADDENDUM #1

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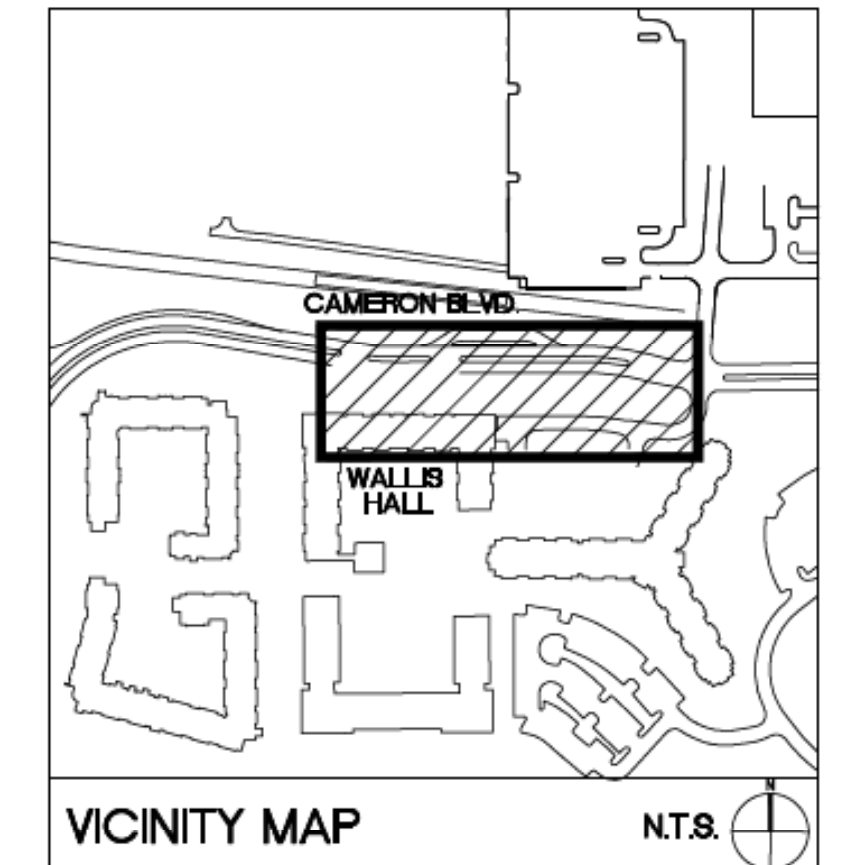
SCALE: 1" = 20'
 0 10 20 40
 NORTH

C-700
 (BASE BID/ALT. #6A/#B)
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PLANT SCHEDULE

QUANTITY	PROPOSED PLANT TYPE	PROPOSED PLANT SIZE	PLANT SPACING
1	LIVE OAK	4" CAL	AS SHOWN
4,279 SQ. FT.	SEED (SEE SPECIFICATIONS)	-	-
2,993 SQ. FT.	SOD (SEE SPECIFICATIONS)	-	-



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LEGEND

SYMBOL	DETAIL
	EXISTING TREELINE -/-
	PROPOSED TREELINE -/-
	EXISTING TREE -/-
	PROPOSED TREE (TRANSPLANTED) 17/C-801
	PROPOSED SHRUBS 17/C-801
	PROPOSED GROUNDCOVER -/-
	PROPOSED SEED/SOD -/-
	PROPOSED LIGHT FIXTURE SEE ELECTRICAL PLAN -/-



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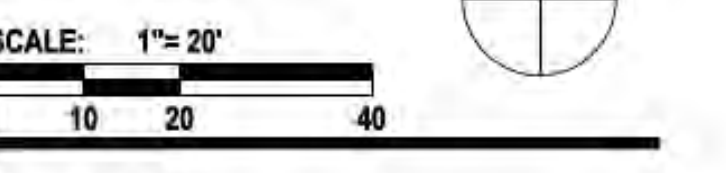
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 CODE 41526 ITEM 310

CAMERON BLVD PLANTING PLAN

Project No.
 4496

Issued
 03/08/2017 - BID SET

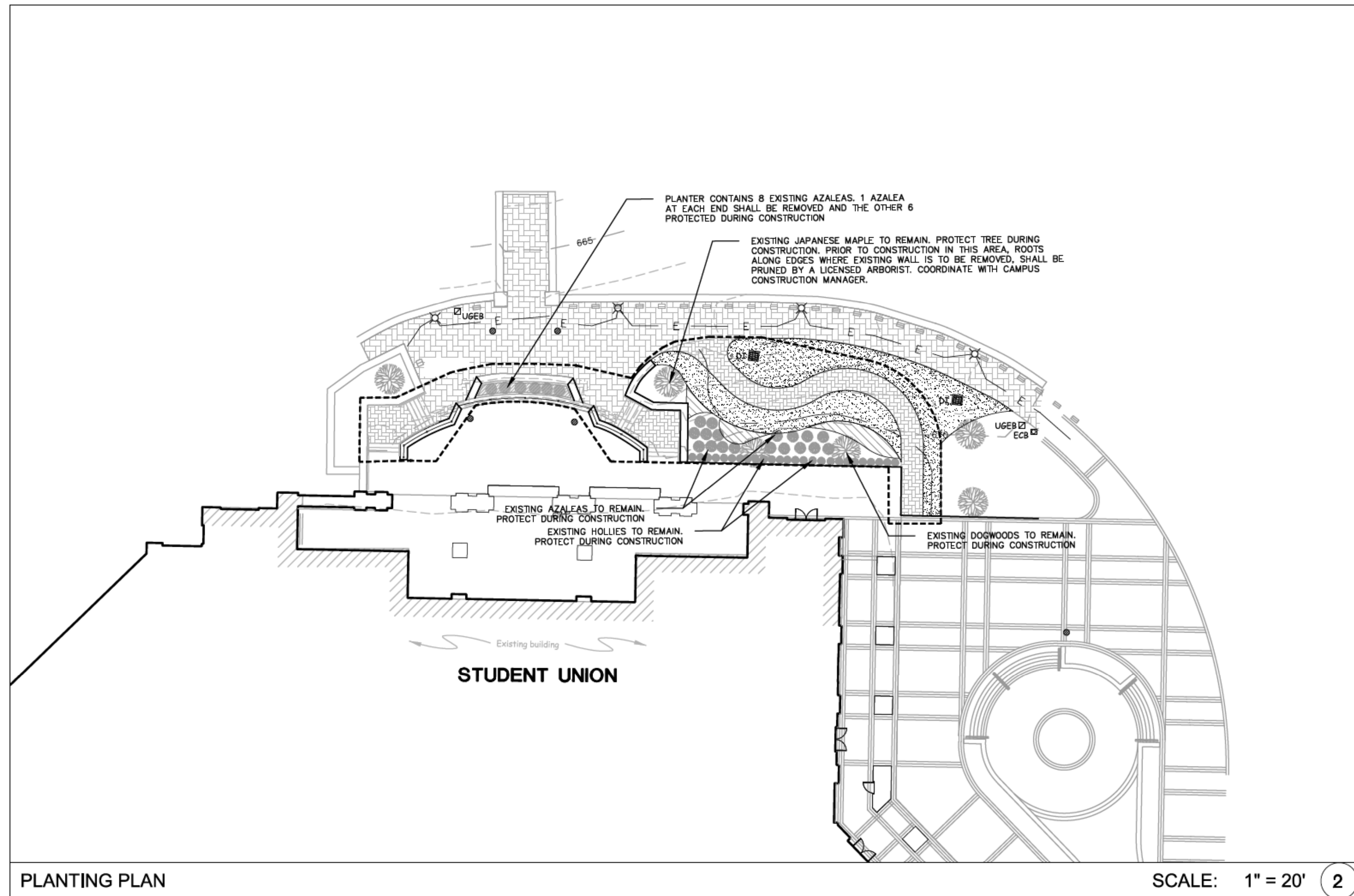
Revised
 03/17/17 - ADDENDUM #1



C-701
 (ADD ALTERNATE #1)

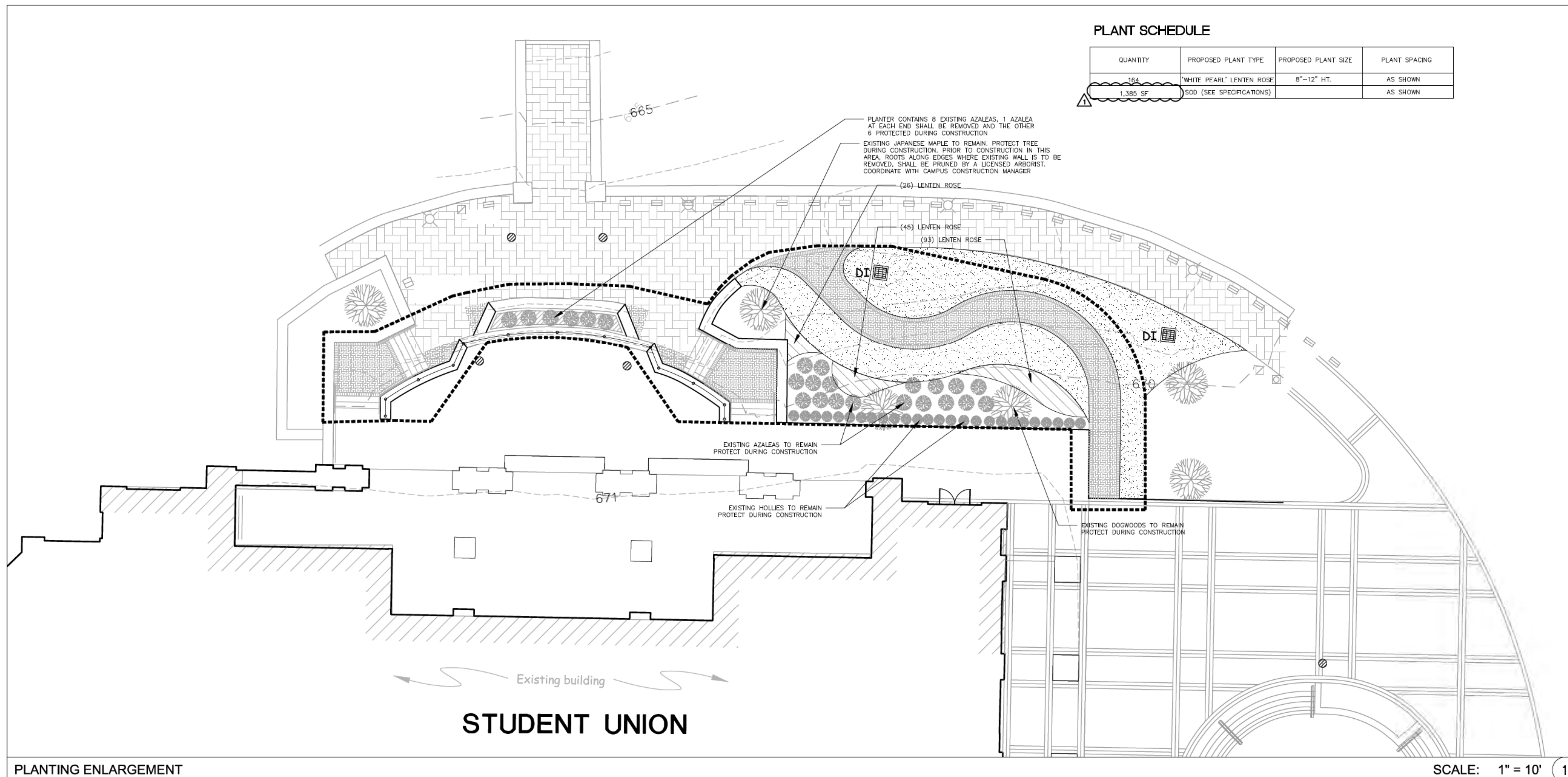
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- CONTRACTOR IS RESPONSIBLE FOR PLACING BARRICADES USING FLAG MEN, ETC. AS NECESSARY TO INSURE SAFETY TO THE PUBLIC.
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- CONTRACTOR SHALL COORDINATE ALL LOCATES WITH THE UNC CHARLOTTE CONSTRUCTION MANAGE WITH A MINIMUM OF 96 HOURS PRIOR TO CONSTRUCTION.

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PLANTING PLAN

SCALE: 1" = 20' 2

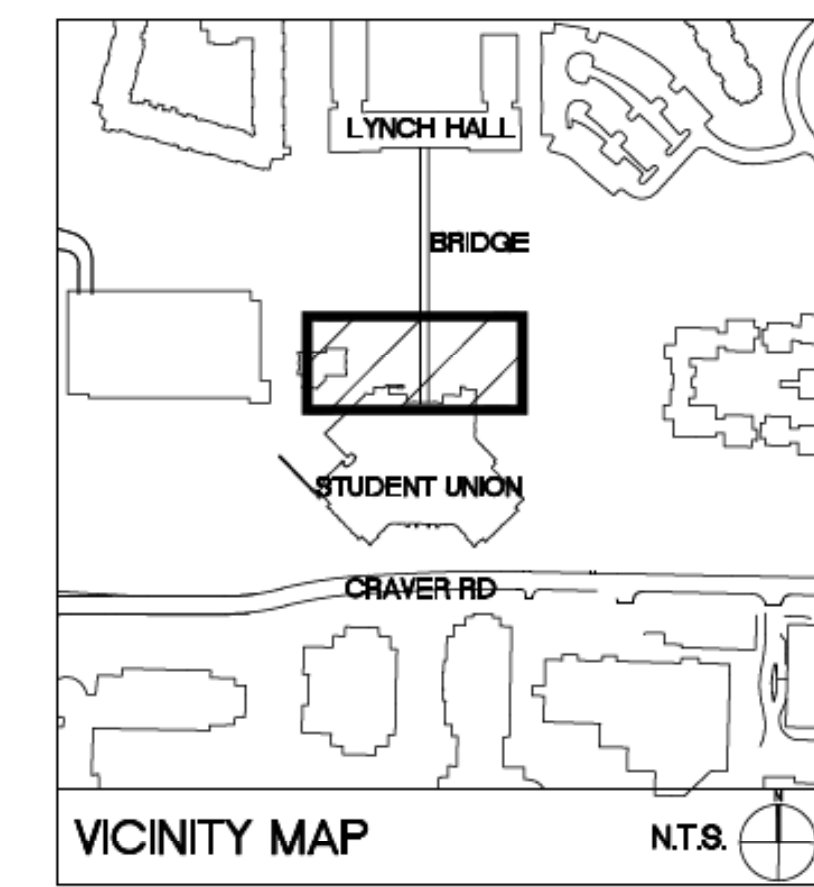


PLANTING ENLARGEMENT

SCALE: 1" = 10' 1

PLANT SCHEDULE

QUANTITY	PROPOSED PLANT TYPE	PROPOSED PLANT SIZE	PLANT SPACING
154	"WHITE PEARL" LENTEN ROSE	8"-12" HT.	AS SHOWN
1,385 SF	SOD (SEE SPECIFICATIONS)		AS SHOWN



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LEGEND

SYMBOL	DETAIL
[Symbol: Dashed line]	EXISTING TREELINE -/-
[Symbol: Solid line]	PROPOSED TREELINE -/-
[Symbol: Circle with dot]	EXISTING TREE -/-
[Symbol: Circle with cross]	PROPOSED TREE 17/C-801
[Symbol: Circle with horizontal lines]	PROPOSED SHRUBS 17/C-801
[Symbol: Stippled area]	PROPOSED GROUNDCOVER -/-
[Symbol: Wavy line]	PROPOSED SEED/SOD -/-

SEE SHEET C-700 FOR LANDSCAPE NOTES



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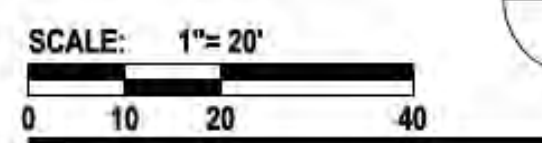
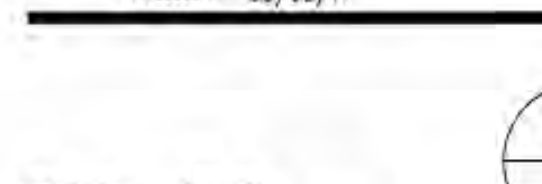
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 CODE 41526 ITEM 310

STUDENT UNION - PLANTING PLAN

Project No.
 4496

Issued
 03/08/2017 - BID SET

Revised
 03/17/17 - ADDENDUM #1



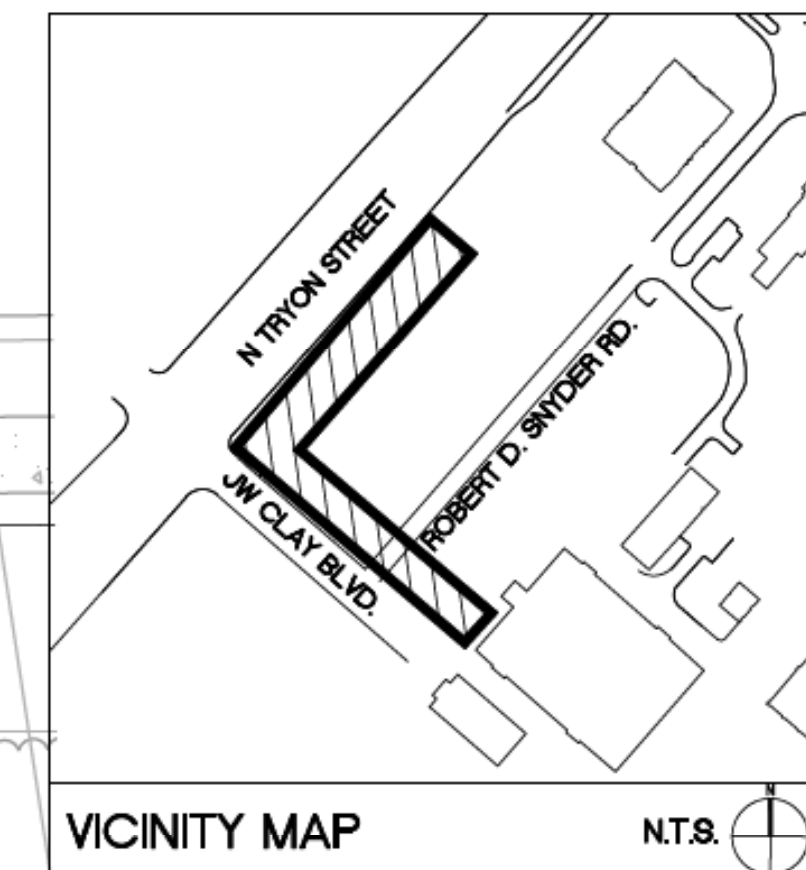
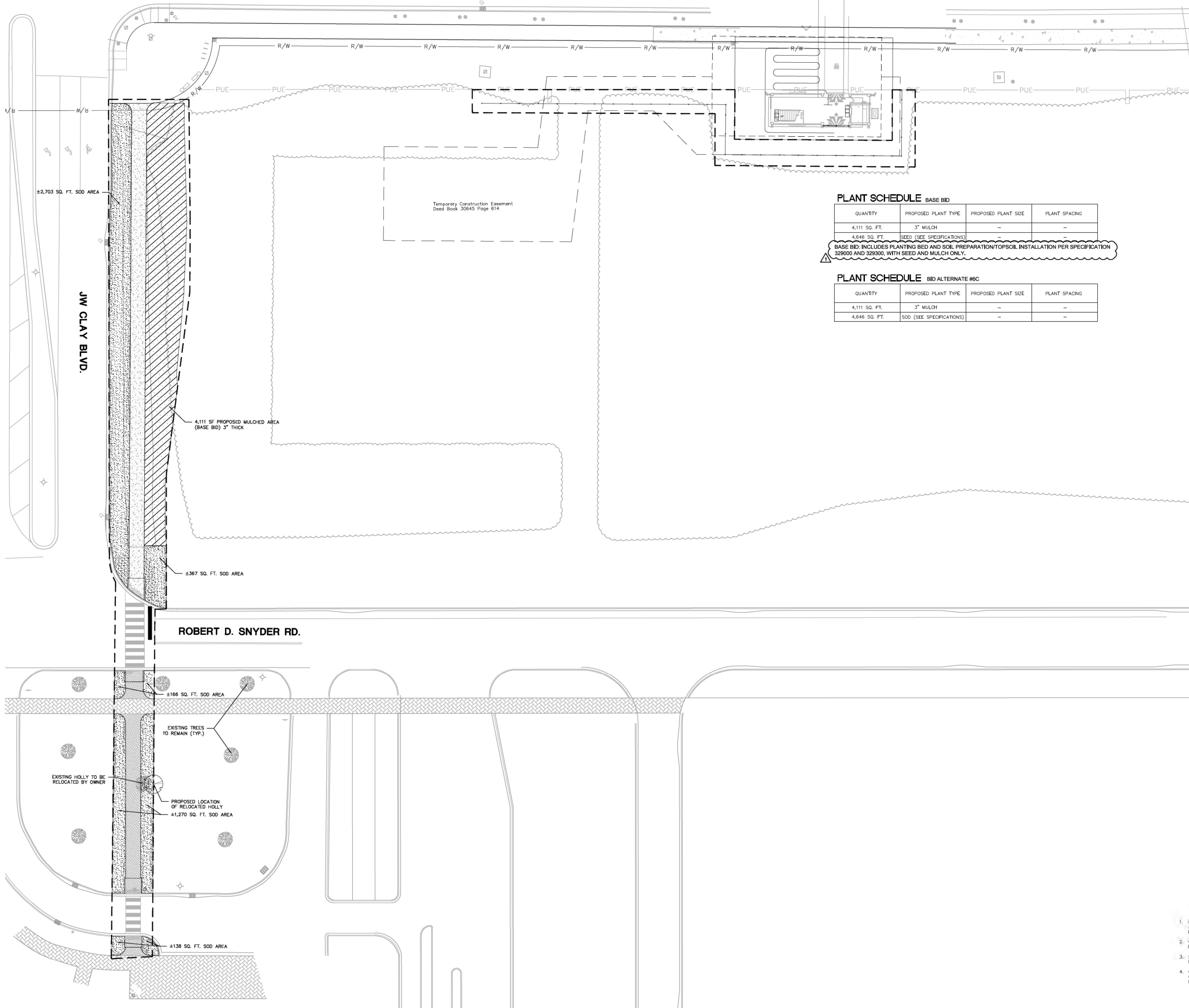
C-702
 (ADD ALTERNATE #2)

- 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.
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PLANT SCHEDULE BASE BID

QUANTITY	PROPOSED PLANT TYPE	PROPOSED PLANT SIZE	PLANT SPACING
4,111 SQ. FT.	3" MULCH	-	-
4,646 SQ. FT.	SEED (SEE SPECIFICATIONS)	-	-

BASE BID INCLUDES PLANTING BED AND SOIL PREPARATION/TOPSOIL INSTALLATION PER SPECIFICATION 329300 AND 329300, WITH SEED AND MULCH ONLY.

PLANT SCHEDULE BID ALTERNATE #6C

QUANTITY	PROPOSED PLANT TYPE	PROPOSED PLANT SIZE	PLANT SPACING
4,111 SQ. FT.	3" MULCH	-	-
4,646 SQ. FT.	SOD (SEE SPECIFICATIONS)	-	-

LEGEND

- SYMBOL
- EXISTING TREELINE
- EXISTING TREE
- PROPOSED TREE
- PROPOSED SEED/SOD AREA
- PROPOSED MULCHED AREA

SEE SHEET C-700 FOR LANDSCAPE NOTES



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CAMPUS CIRCULATION IMPROVEMENTS

SCO ID# 16-14055
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JW CLAY - PLANTING PLAN

Project No.
 4496

Issued
 03/08/2017 - BID SET

Revised
 03/17/17 - ADDENDUM #1

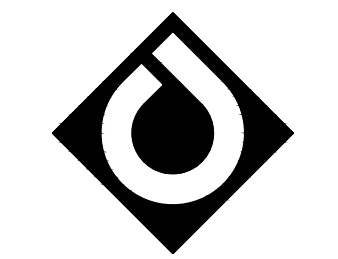


SCALE: 1"=20'
 0 10 20 40

C-703 (BID ALTERNATE #6C)

- 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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CAMPUS CIRCULATION IMPROVEMENTS

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MAIN STATION - SITE PLAN

Project No.

4496

Issued

03/08/2017 - BID SET

Revised

03.17.17 ADDENDUM #1



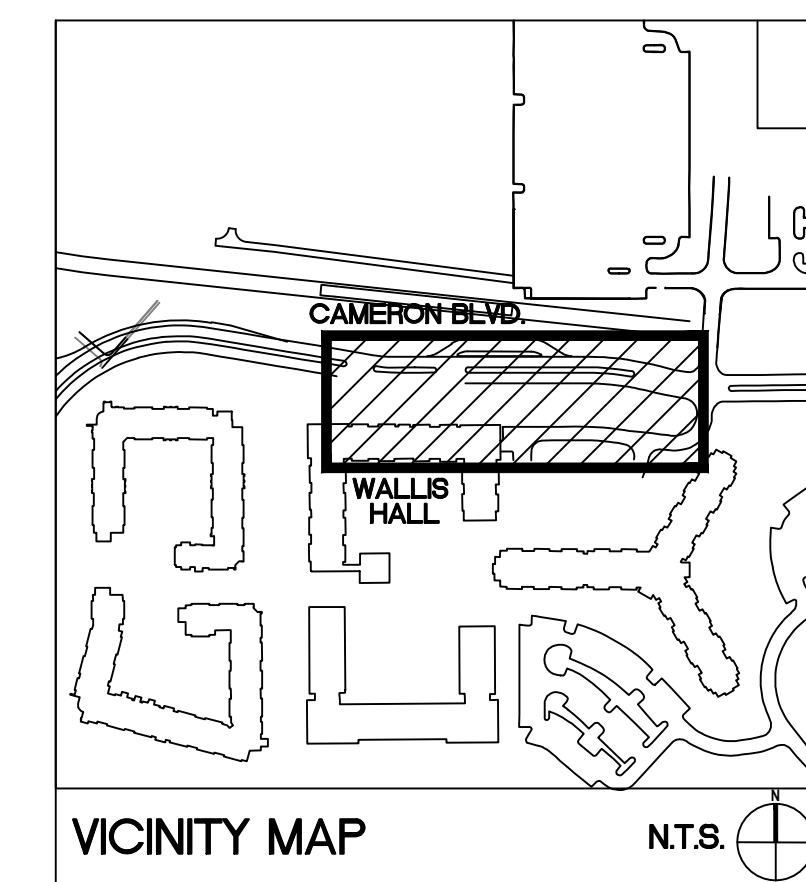
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Fax 704.335.0399
www.elmengr.com
NC Corporation #: C-2703

SCALE: 1"=20'
0 10 20 40

E-200

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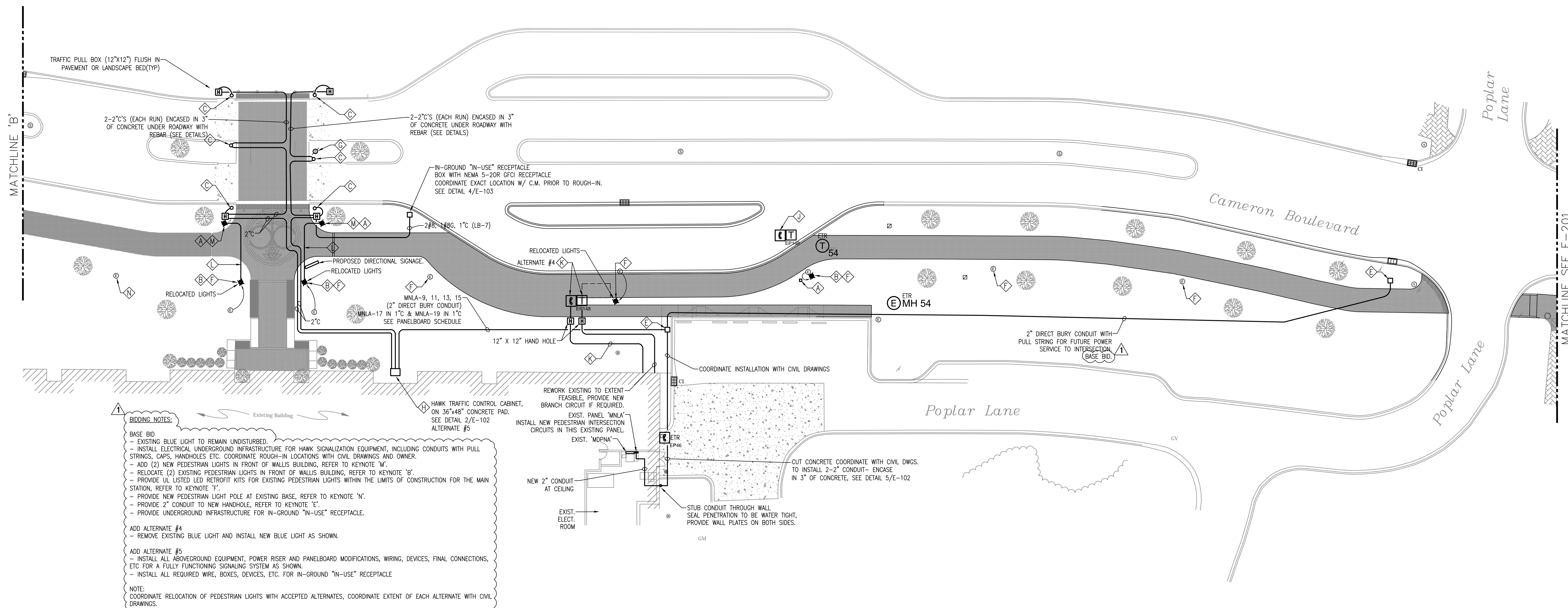
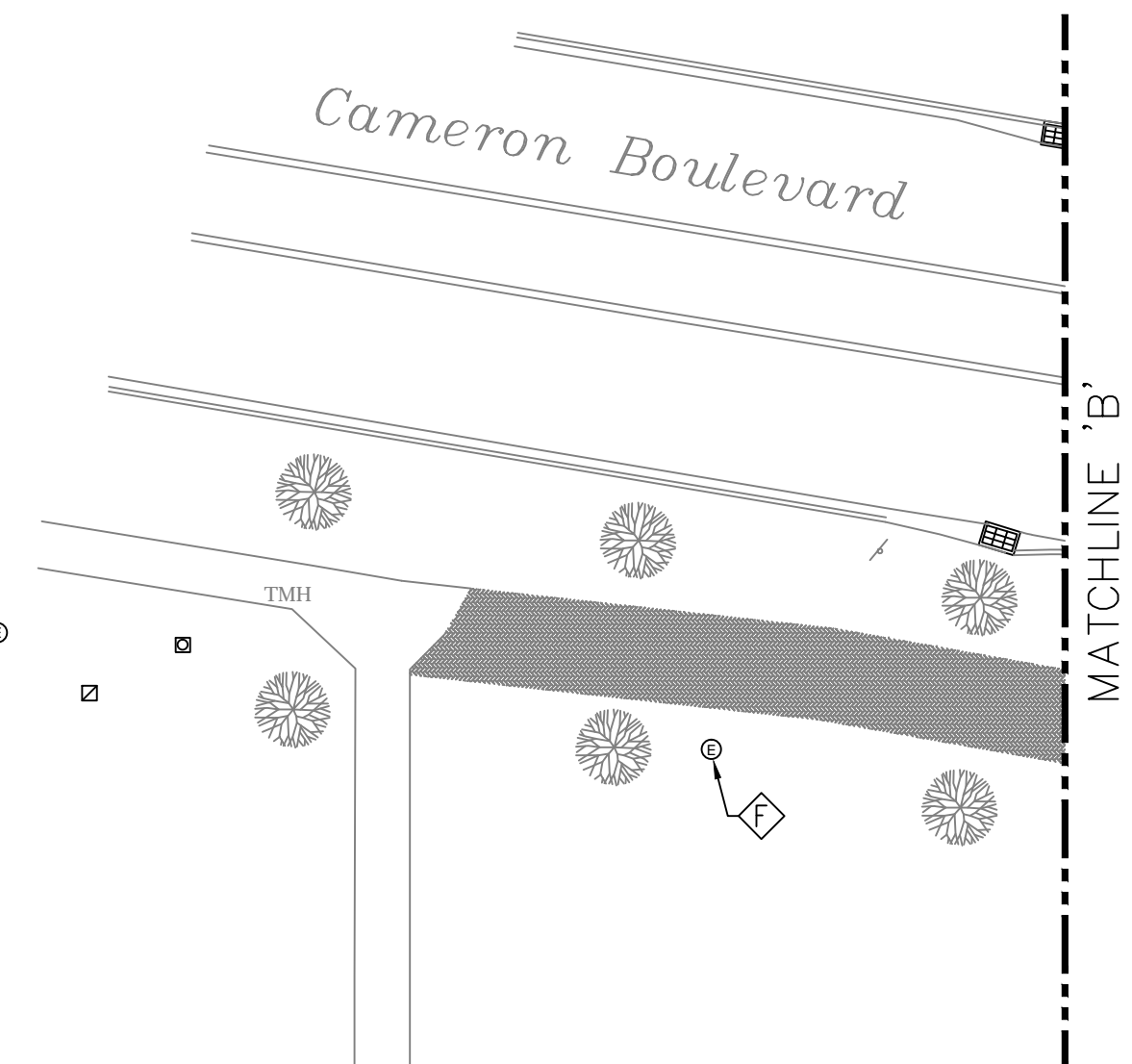
SURVEY DISCLAIMER
TOPOGRAPHIC SURVEY ISSUE DATE NOVEMBER 7, 2016.
PROVIDED BY ALLEN GEOMATICS, P.C., PO BOX 89 ADVANCE, NC, 27006 336-998-0218

GENERAL NOTES:

- ALL ELECTRICAL LINES SERVING NEW PEDESTRIAN AND TRAFFIC CONTROLS SHALL BE LOCATED UNDERGROUND.
- PROVIDE TRAFFIC RATED HAND HOLES AS NECESSARY FOR ROUTING CONDUITS UNDER GROUND AND RECONNECT EXISTING SITE LIGHTING.
- SEE PLANTING PLAN FOR TREE LOCATIONS
- REFER TO CIVIL PLANS FOR EXISTING POLES TO REMAIN, BE RELOCATED, OR TO BE REMOVED. PROVIDE NEW WIRING (2#10, 1#10, 1" C) TO EXTEND EXISTING CIRCUITS TO NEW LIGHT POLE LOCATIONS.
- PROVIDE STAINLESS STEEL LOCKABLE GASKETED ENCLOSURE TO PROTECT EQUIPMENT & CONTROLS FOR EACH TRAFFIC CONTROL CABINET.
- COORDINATE AND CONFIRM FINAL LOCATION OF LIGHTS WITH UNCC CONSTRUCTION MANAGER IN THE EVENT A PROPOSED LIGHT POLE LOCATION IS IN CONFLICT WITH AN EXISTING OR PROPOSED UTILITY.
- CONTRACTOR SHALL BE FULLY RESPONSIBLE TO CALL NORTH CAROLINA ONE-CALL CENTER (1-800-632-4849) AND UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE AT LEAST 48 HOURS PRIOR TO UNDERGROUND WORK TO HAVE EXISTING UTILITIES LOCATED. REPORT ANY DISCREPANCIES TO THE ENGINEER.
- CONTRACTOR SHALL BE FULLY RESPONSIBLE TO CONTRACT WITH PRIVATE UTILITY LOCATOR TO HAVE ALL EXISTING UTILITIES LOCATED.
- ALL EXISTING UTILITIES ARE SHOWN AT APPROXIMATE LOCATIONS. CONTRACTOR IS FULLY RESPONSIBLE TO FIELD VERIFY ACTUAL LOCATION AND DEPTH OF EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL ENSURE THAT ALL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS AND STANDARDS ARE FOLLOWED DURING ALL PHASES OF THE CONSTRUCTION PROJECT. SHEETING OR BRACING SHALL BE USED WHENEVER NECESSARY TO PREVENT FAILURE OF THE TRENCH BANKS. ALL SHEETING SHALL CONFORM TO AASHTO AND OSHA SAFETY STANDARDS.
- THE CONTRACTOR SHALL BE FULLY RESPONSIBLE TO PROVIDE SIGNS, BARRICADES, WARNING LIGHTS, GUARD RAILS, AND EMPLOY FLAGGERS AS NECESSARY WHEN CONSTRUCTION ENDANGERS EITHER VEHICULAR OR PEDESTRIAN TRAFFIC. THESE DEVICES SHALL REMAIN IN PLACE UNTIL THE TRAFFIC MAY PROCEED NORMALLY AGAIN.
- CONSTRUCTION WORK ZONE SIGNS AND SIGNING PROCEDURES SHALL CONFORM TO THE MUTCD AND SUPPLEMENTS AND TO ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES.
- SEE SHEET C-900 FOR LOCATION OF PEDESTRIAN SIGNAL POLES.
- ADJUST ALL EXISTING ELECTRICAL HAND HOLES VERTICALLY AND HORIZONTALLY AS REQUIRED TO AVOID NEW CONDITIONS. FLUSH WITH SURROUNDING SURFACES AND COORDINATE WITH CIVIL DRAWINGS AND OWNER FINAL LOCATIONS.

KEY NOTES

- ◆ NEW 12" X 12" HAND HOLE FOR SITE LIGHTING CIRCUITS PROVIDE NEW 2#10, 1#10G, 1" C TO RECONNECT EXISTING CIRCUIT.
- ◆ LOCATION FOR RELOCATED EXISTING SITE LIGHTING POLE. SEE DETAIL FOR PAVEMENT MOUNTING. PROVIDE NEW POLE BASE. EXTEND CONDUIT AND RECONNECT TO EXISTING SITE LIGHTING CIRCUIT WITH 2#12, 1#12G, 1" C.
- ◆ NEW SIGNAL LIGHT AND POLE, DECORATIVE TO MATCH PEDESTRIAN LIGHTING POLES. SEE SHEET C-900 & C-901, SEE DETAIL 12/E-102, COORDINATE FINAL STYLE, HEIGHT, FINISH, LOCATION, ETC. WITH C.M.
- ◆ PROVIDE CONDUIT SLEEVES TO ENCLOSE EXISTING EXPOSED WIRING INTO ENCLOSURES
- ◆ PROVIDE NEW 24"x24"x18" D HAND HOLE FOR POWER DISTRIBUTION
- ◆ PROVIDE UL LISTED LED RETROFIT KIT FROM ORIGINAL EQUIPMENT MANUFACTURER
- ◆ EXISTING SITE STREET LIGHT TO REMAIN.
- ◆ PROVIDE (4) 20A-120V NEMA 5-20R GFCI RECEPTACLES FOR TRAFFIC CONTROL SYSTEM.
- ◆ PROVIDE NEW STAINLESS STEEL PANELBOARD ENCLOSURE, ON 60"x36" CONCRETE PAD, SEE DETAIL.
- ◆ EXISTING BLUE LIGHT TO REMAIN UNDER BASE BID. REMOVE EXISTING BLUE LIGHT PHONE, ASSOCIATED CONDUIT, WIRE AND HAND HOLES UNDER ALTERNATE #4.
- ◆ LOCATION FOR NEW BLUE LIGHT PHONE AND ASSOCIATED EQUIPMENT. PROVIDE NEW 2#10, 1#10G IN 1" C TO NEW LOCATION. COORDINATE WITH UNCC I.T. STAFF FOR NEW TELECOM CABLE. PROVIDE 1/2" C TO WALLS BLDG I.T. ROOM. PROVIDE ONE 12" X 12" HAND HOLE FOR POWER AND ONE 12" X 12" HAND HOLE FOR TELECOM.
- ◆ EXTEND EXISTING CIRCUIT TO NEW PEDESTRIAN LIGHT POLE LOCATION.
- ◆ NEW PEDESTRIAN LIGHT POLE LOCATION, PROVIDE NEW BASE, POLE AND LIGHT TO MATCH EXISTING SURROUNDING PEDESTRIAN DECORATIVE 'ANP' FIXTURES AND POLES. SEE DETAIL 6/E-102 PROVIDE UL LISTED LED KIT TO MATCH RETROFIT FIXTURES. COORDINATE WITH OWNER.
- ◆ EXISTING PEDESTRIAN LIGHT POLE LOCATION, PROVIDE NEW POLE AND LIGHT TO MATCH EXISTING SURROUNDING PEDESTRIAN DECORATIVE 'ANP' FIXTURES AND POLES. MOUNT TO EXISTING BASE AND CONNECT TO EXISTING CIRCUIT. PROVIDE UL LISTED LED KIT TO MATCH RETROFIT FIXTURES. COORDINATE WITH OWNER.



BIDDING NOTES:

- BASE BID
 - EXISTING BLUE LIGHT TO REMAIN UNDISTURBED.
 - INSTALL ELECTRICAL UNDERGROUND INFRASTRUCTURE FOR HAWK SIGNALIZATION EQUIPMENT, INCLUDING CONDUITS WITH PULL STRINGS, CAPS, HANDHOLES ETC. COORDINATE ROUGH-IN LOCATIONS WITH CIVIL DRAWINGS AND OWNER.
 - ADD (2) NEW PEDESTRIAN LIGHTS IN FRONT OF WALLIS BUILDING, REFER TO KEYNOTE 'M'.
 - RELOCATE (2) EXISTING PEDESTRIAN LIGHTS IN FRONT OF WALLIS BUILDING, REFER TO KEYNOTE 'B'.
 - PROVIDE UL LISTED LED RETROFIT KITS FOR EXISTING PEDESTRIAN LIGHTS WITHIN THE LIMITS OF CONSTRUCTION FOR THE MAIN STATION, REFER TO KEYNOTE 'F'.
 - PROVIDE NEW PEDESTRIAN LIGHT POLE AT EXISTING BASE, REFER TO KEYNOTE 'N'.
 - PROVIDE 2" CONDUIT TO NEW HANDHOLE, REFER TO KEYNOTE 'E'.
 - PROVIDE UNDERGROUND INFRASTRUCTURE FOR IN-GROUND "IN-USE" RECEPTACLE.
- ADD ALTERNATE #4
 - REMOVE EXISTING BLUE LIGHT AND INSTALL NEW BLUE LIGHT AS SHOWN.
- ADD ALTERNATE #5
 - INSTALL ALL ABOVEGROUND EQUIPMENT, POWER RISER AND PANELBOARD MODIFICATIONS, WIRING, DEVICES, FINAL CONNECTIONS, ETC FOR A FULLY FUNCTIONING SIGNALING SYSTEM AS SHOWN.
 - INSTALL ALL REQUIRED WIRE, BOXES, DEVICES, ETC. FOR IN-GROUND "IN-USE" RECEPTACLE

NOTE:
COORDINATE RELOCATION OF PEDESTRIAN LIGHTS WITH ACCEPTED ALTERNATES, COORDINATE EXTENT OF EACH ALTERNATE WITH CIVIL DRAWINGS.

