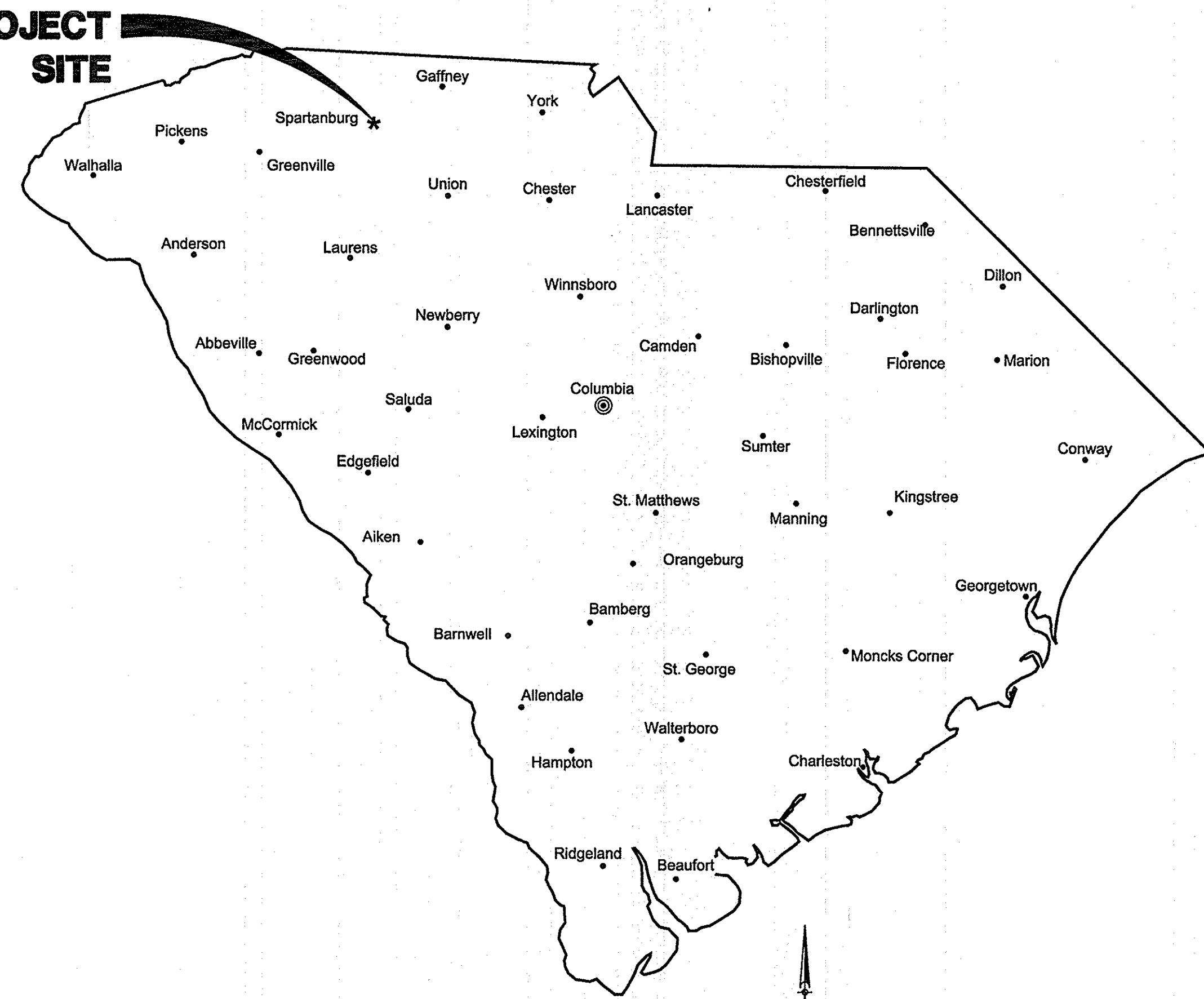
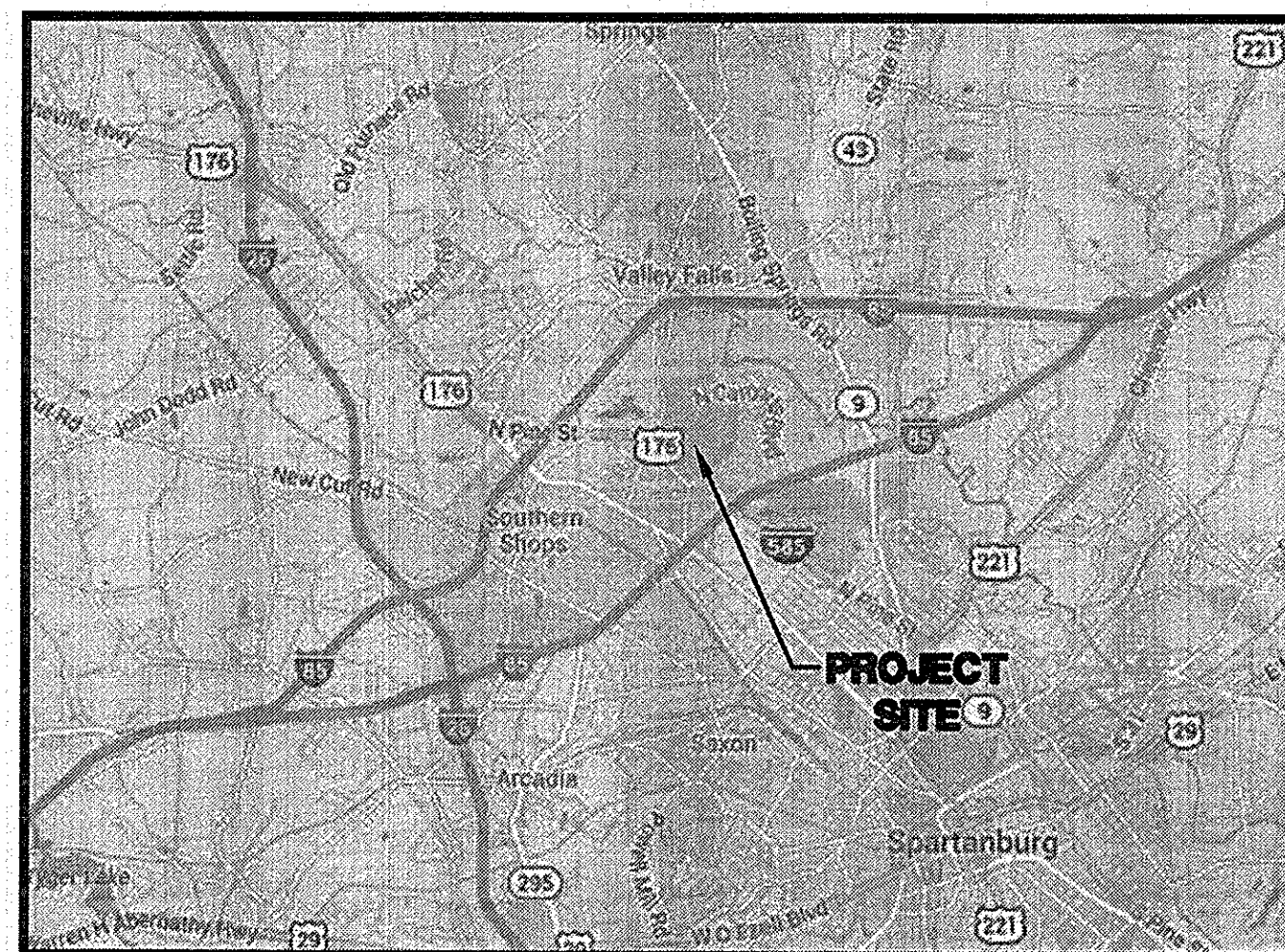


PROJECT SITE



VICINITY MAP



LOCATION MAP

SCALE: 1" = 2000'

**USC UPSTATE
PARKING IMPROVEMENTS
PREPARED FOR
UNIVERSITY OF SOUTH CAROLINA
SPARTANBURG COUNTY, SOUTH CAROLINA**

SHEET INDEX

<u>SHEET</u>	<u>SHEET No.</u>
GENERAL NOTES, LEGEND, SYMBOLS & ABBREVIATIONS	1
EXISTING CONDITIONS AND DEMOLITION PLAN	2-4
SITE IMPROVEMENT PLAN	5-7
GRADING, STORM DRAINAGE AND EROSION CONTROL PLAN	8-10
SITE DETAILS	11-13

3 DAYS BEFORE DIGGING AT USC UPSTATE CALL:



1. PALMETTO UTILITY PROTECTION SERVICE, INC. (PUPS)
2. METRO WATER: 1-864-503-0822

ALL UTILITIES MAY NOT BE A MEMBER OF PUPS,
COORDINATE WITH LOCAL UTILITY COMPANIES FOR
MARKING OF THEIR UTILITIES ALSO.

USC PROJECT NO.
CP00395003

BID DOCUMENTS

**THESE DOCUMENTS ARE FOR THE
PURPOSE OF SOLICITATION OF BIDS AND
ARE NOT FOR USE FOR CONSTRUCTION**

STARS

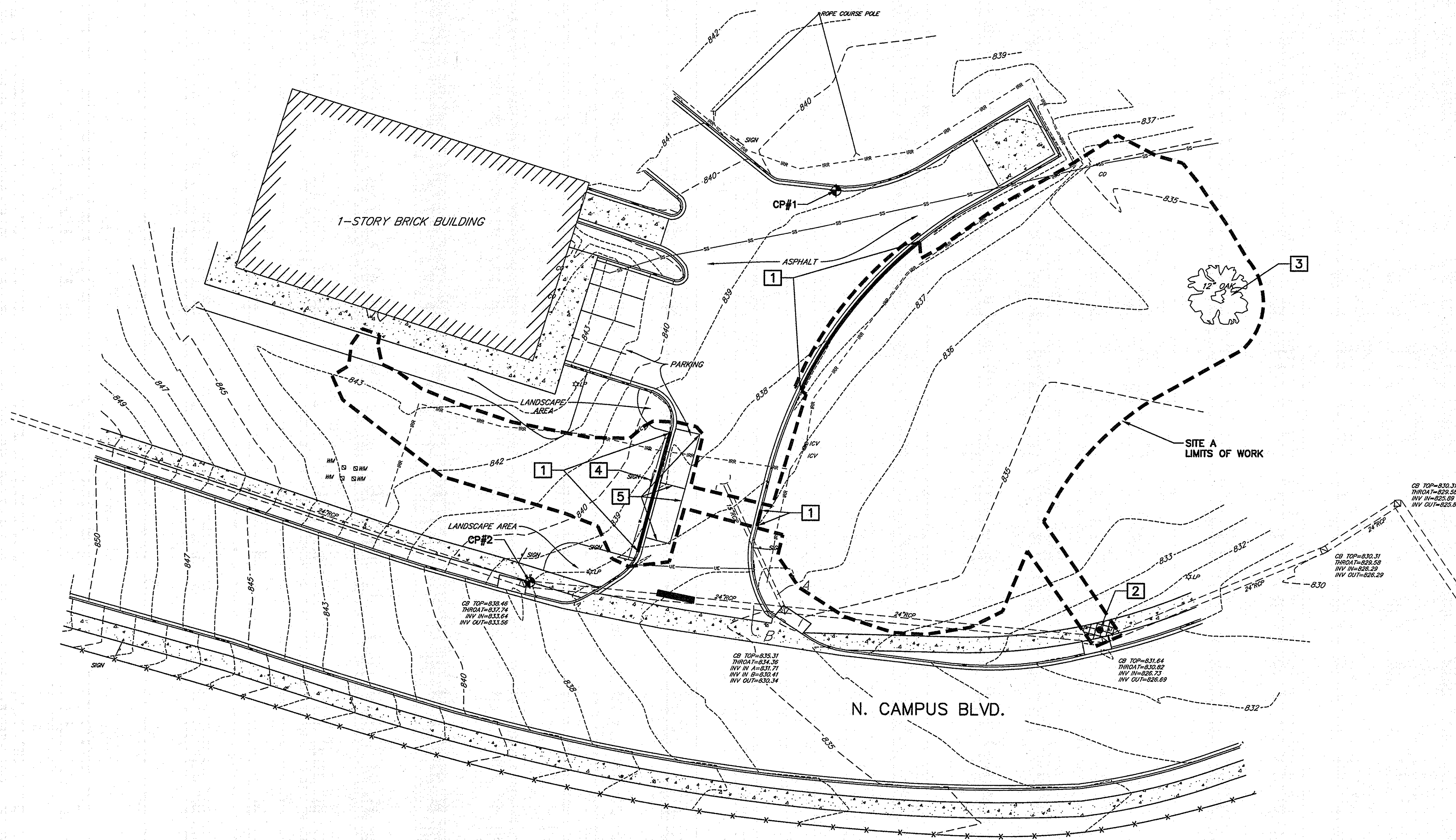
URS Corporation
101 Research Drive
Columbia, South Carolina 29203
Telephone (803) 254-4400 • Fax (803) 771-6676
www.URSCorp.com

MARCH 27, 2014

PROJECT NO.
46423271

FILE NO.
36,266-B90

N:\PROJECTS\46423271\DRAWINGS\BID DRAWINGS\SHEETS\S2-S4-46423271_EX.DWG 3/31/2014 10:36:13 AM



NOTES

1. BURNING OF ANY MATERIAL, DEBRIS, OR TRASH ON SITE WILL NOT BE PERMITTED.
2. ALL DEMOLITION DEBRIS SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS AND SPECIFICATIONS, LATEST REVISION.
3. IN ADDITION TO INFORMATION OBTAINED FROM SITE VISITS AND A FIELD SURVEY, THE EXISTING UNDERGROUND UTILITIES SHOWN HEREIN ARE BASED ON A COMBINATION OF AVAILABLE SOURCE INFORMATION PROVIDED BY OTHERS, INCLUDING AS-BUILT DRAWINGS AND EXISTING UTILITIES RECORDS AND/OR MAPS. A CONCERTED EFFORT TO LOCATE ALL EXISTING UTILITIES WAS MADE, HOWEVER, LOCATION OF UNDERGROUND UTILITIES AS SHOWN ARE APPROXIMATE AND FOR INFORMATION PURPOSES ONLY. THE EXISTING LOCATION OF UTILITIES SHOWN HEREIN MAY BE DIFFERENT FROM THE ACTUAL AND ALL DAMAGES RESULTING FROM THE FAILURE TO DO SO SHALL BE THE RESPONSIBILITY AND AT THE EXPENSE TO THE OWNER. CONTACT PALMETTO UTILITY PROTECTION SERVICE (PUPS) AND OTHER LOCAL AND REGIONAL UTILITY COMPANIES AT LEAST 72 HOURS PRIOR TO COMMENCING CONSTRUCTION FOR LOCATION OF UTILITIES.
4. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES WITHIN THE PROJECT LIMITS.
5. PROTECT FROM DAMAGE EXISTING STRUCTURES, UTILITIES, ETC. THAT ARE TO REMAIN OR TO BE SALVAGED. REPAIR ANY DAMAGE TO EXISTING STRUCTURES, UTILITIES, ETC. TO ORIGINAL CONDITION, AT NO ADDITIONAL COST TO THE OWNER.
6. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS WITH THE EXISTING CONDITIONS AND BE PREPARED TO ADEQUATELY CARE FOR AND SAFEGUARD HIMSELF AND THE OWNER FROM DAMAGE.
7. KEEP ALL ROADS ADJACENT TO THE SITE CLEAN DURING CONSTRUCTION.
8. ALL EXISTING INLETS, MANHOLES, ETC. WITHIN LIMITS OF WORK SHALL RECEIVE INLET PROTECTION SUITABLE FOR THE INLET TYPE.
9. CONTRACTOR SHALL COORDINATE WITH OWNER THE REMOVAL AND OR RELOCATION OF EXISTING SIGNAGE AND LIGHT POLES. STORE SALVAGEABLE EQUIPMENT ON APPROVED SITE AREA.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING AND OBTAINING APPROVAL OF ALL TRAFFIC CONTROL PLANS.

KEY NOTES

- 1** DEMOLISH CURB & GUTTER
- 2** SAWCUT AND DEMOLISH CONCRETE SIDEWALK/PAVEMENT
- 3** TREE TO BE SAVED
- 4** REMOVE SIGN (BY OWNER)
- 5** REMOVE EXISTING STRIPING, USE BLACKOUT PAINT

CONTROL POINTS

CP#1
MAGNAIL
ELEVATION = 838.889'
NORTHING = 1153555.53'
EASTING = 1707946.76

CP#2
HUBNAIL
ELEVATION = 838.538'
NORTHING = 1153429.47'
EASTING = 1707848.75'

3 DAYS BEFORE DIGGING AT USC UPSTATE CALL:



1. PALMETTO UTILITY PROTECTION SERVICE, INC. (PUPS)
2. METRO WATER: 1-864-503-0822

ALL UTILITIES MAY NOT BE A MEMBER OF PUPS,
COORDINATE WITH LOCAL UTILITY COMPANIES FOR
MARKING OF THEIR UTILITIES ALSO.

USC PROJECT NO.
CP00395003

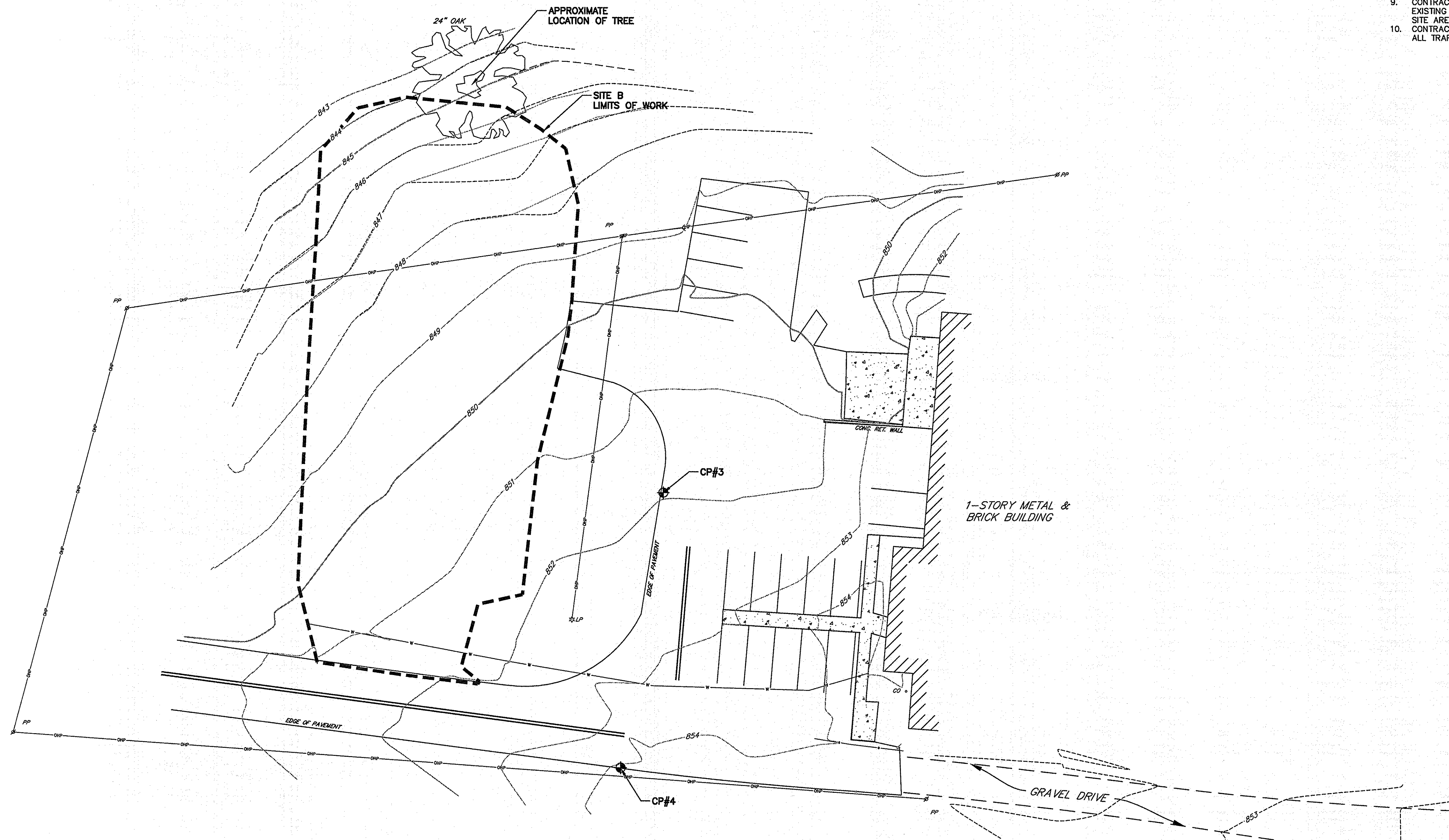
BID DOCUMENTS

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ARE NOT FOR USE FOR CONSTRUCTION**

PROJECT USC UPSTATE PARKING IMPROVEMENTS PREPARED FOR THE UNIVERSITY OF SOUTH CAROLINA SOUTH CAROLINA SPARTANBURG COUNTY		SHEET TITLE EXISTING CONDITIONS AND DEMOLITION PLAN SITE A		DATE: MARCH 27, 2014 SCALE: 1"=20' SOUTH CAROLINA	
.DWG NAME N.B. NO. REF. PROJECT NO. 46423271		SHEET 2 OF 13			
FILE NO. 36.266-B99					

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NA PROJECTS 46423271.DWG URS DRAWINGS SHEETS 35-64-46423271.DWG 3/31/2014 10:40:08 AM



SITE B - BASE BID
SCALE: 1"=20'

NOTES

- BURNING OF ANY MATERIAL, DEBRIS, OR TRASH ON SITE WILL NOT BE PERMITTED.
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- CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXACT LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES WITHIN THE PROJECT LIMITS.
- PROTECT FROM DAMAGE EXISTING STRUCTURES, UTILITIES, ETC. THAT ARE TO REMAIN OR TO BE SALVAGED. REPAIR ANY DAMAGE TO EXISTING STRUCTURES, UTILITIES, ETC. TO ORIGINAL CONDITION, AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND BE PREPARED TO ADEQUATELY CARE FOR AND SAFEGUARD HIMSELF AND THE OWNER FROM DAMAGE.
- KEEP ALL ROADS ADJACENT TO THE SITE CLEAN DURING CONSTRUCTION.
- ALL EXISTING INLETS, GRATES, ETC. WITHIN LIMITS OF WORK SHALL RECEIVE INLET PROTECTION SUITABLE FOR THE INLET TYPE.
- CONTRACTOR SHALL COORDINATE WITH OWNER THE REMOVAL AND OR RELOCATION OF EXISTING SIGNAGE AND LIGHT POLES. STORE SALVAGEABLE EQUIPMENT ON APPROVED SITE AREA.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING AND OBTAINING APPROVAL OF ALL TRAFFIC CONTROL PLANS.

CONTROL POINTS

CP#3
MAGNAIL
ELEVATION = 851.997'
NORTHING = 1155992.35'
EASTING = 1707772.73'

CP#4
MAGNAIL
ELEVATION = 853.677'
NORTHING = 1155899.84'
EASTING = 1707758.60'

3 DAYS BEFORE DIGGING AT USC UPSTATE CALL:



1. PALMETTO UTILITY PROTECTION SERVICE, INC. (PUPS)
2. METRO WATER: 1-864-803-0822

ALL UTILITIES MAY NOT BE A MEMBER OF PUPS.
COORDINATE WITH LOCAL UTILITY COMPANIES FOR
MARKING OF THEIR UTILITIES ALSO.

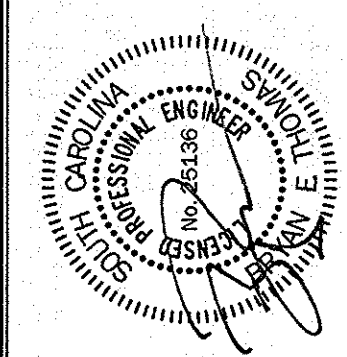
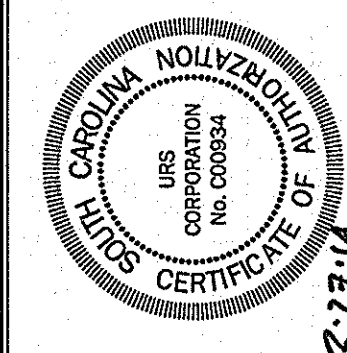
USC PROJECT NO.
CP00395003

BID DOCUMENTS

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ARE NOT FOR USE FOR CONSTRUCTION

REVISIONS

NO.	DESCRIPTION	DATE	BY



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Columbia, South Carolina 29203
Telephone (803) 254-4400 : Fax (803) 771-6676
www.URSCorp.com

EXISTING CONDITIONS
AND DEMOLITION PLAN
SITE B

DATE: MARCH 27, 2014 SCALE: 1"=20'

USC UPSTATE
PARKING IMPROVEMENTS
PREPARED FOR
THE UNIVERSITY OF
SOUTH CAROLINA

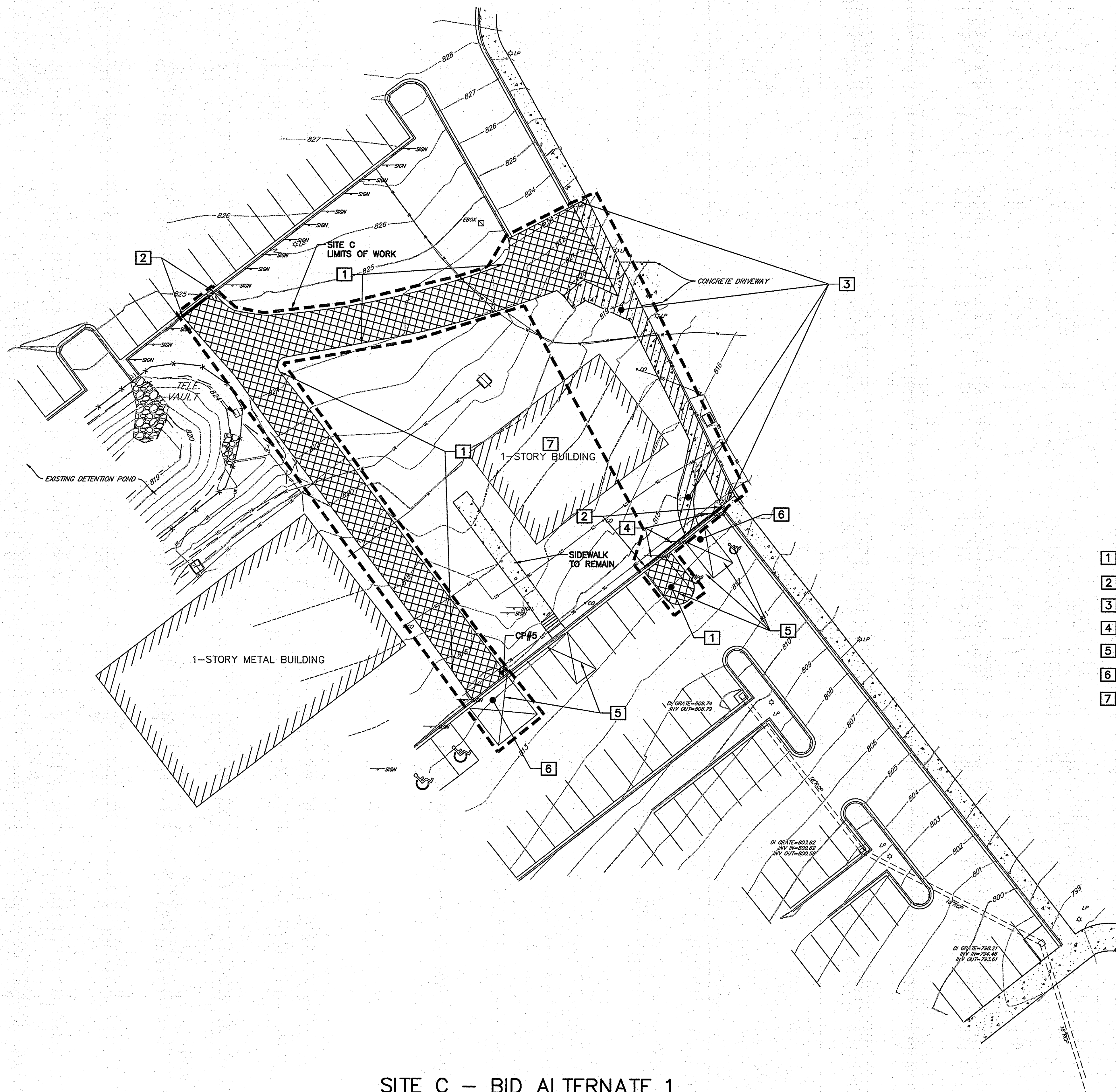
SPARTANBURG COUNTY SOUTH CAROLINA

DWG NAME	SHEET
N.B. NO.	3
REF.	OF
PROJECT NO.	13
46423271	

FILE NO. 36,266-B90

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NA PROJECTS 46423271 (UPSTATE) BID DRAWINGS SHEETS US-S-46423271-1.DWG 3/21/2014 10:35:14 AM



SITE C - BID ALTERNATE 1
SCALE: 1"=20'

NOTES

1. BURNING OF ANY MATERIAL, DEBRIS, OR TRASH ON SITE WILL NOT BE PERMITTED.
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7. KEEP ALL ROADS ADJACENT TO THE SITE CLEAN DURING CONSTRUCTION.
8. ALL EXISTING INLETS, GRATES, ETC. WITHIN LIMITS OF WORK SHALL RECEIVE INLET PROTECTION SUITABLE FOR THE INLET TYPE.
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10. CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING AND OBTAINING APPROVAL OF ALL TRAFFIC CONTROL PLANS.

KEY NOTES

- 1 SAWCUT AND DEMOLISH ASPHALT PAVEMENT FULL DEPTH
- 2 DEMOLISH CURB & GUTTER
- 3 SAWCUT AND DEMOLISH CONCRETE SIDEWALK/PAVEMENT
- 4 REMOVE SIGN AND REUSE ON SITE A (BY OWNER)
- 5 REMOVE EXISTING STRIPING, USE BLACKOUT PAINT
- 6 REMOVE ASPHALT PAVEMENT RAMP
- 7 EXISTING BUILDING TO BE DEMOLISHED BY OTHERS UNDER SEPARATE CONTRACT

CONTROL POINTS

CP#5
MAGNAIL
ELEVATION = 814.773'
NORTHING = 1153717.60'
EASTING = 1709173.93'

3 DAYS BEFORE DIGGING AT USC UPSTATE CALL:



1. PALMETTO UTILITY PROTECTION SERVICE, INC. (PUPS)
2. METRO WATER: 1-864-503-0822

ALL UTILITIES MAY NOT BE A MEMBER OF PUPS.
COORDINATE WITH LOCAL UTILITY COMPANIES FOR
MARKING OF THEIR UTILITIES ALSO.

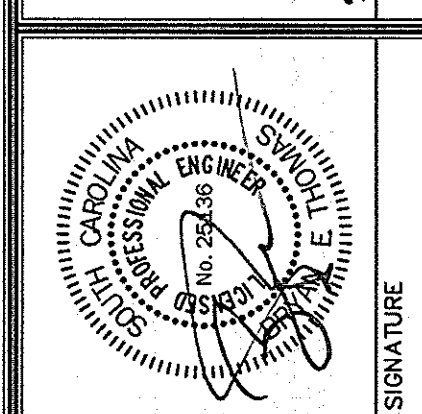
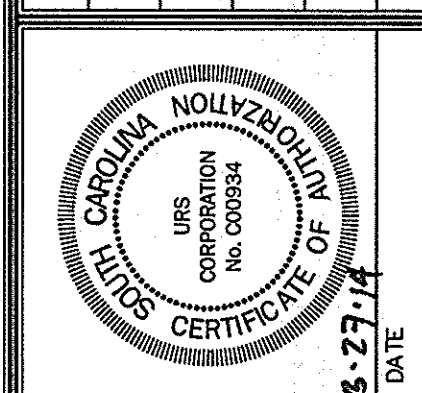
USC PROJECT NO.
CP00395003

BID DOCUMENTS

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REVISIONS			
NO.	DESCRIPTION	DATE	BY

APPROVALS			
PROJECT ENG.	DESIGNED BY:	MOJ	
	DRAWN BY:	EHM	
	CHECKED BY:	BET	
	APPROVED:	BET	



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SHEET TITLE
**EXISTING CONDITIONS
AND DEMOLITION PLAN
SITE C**

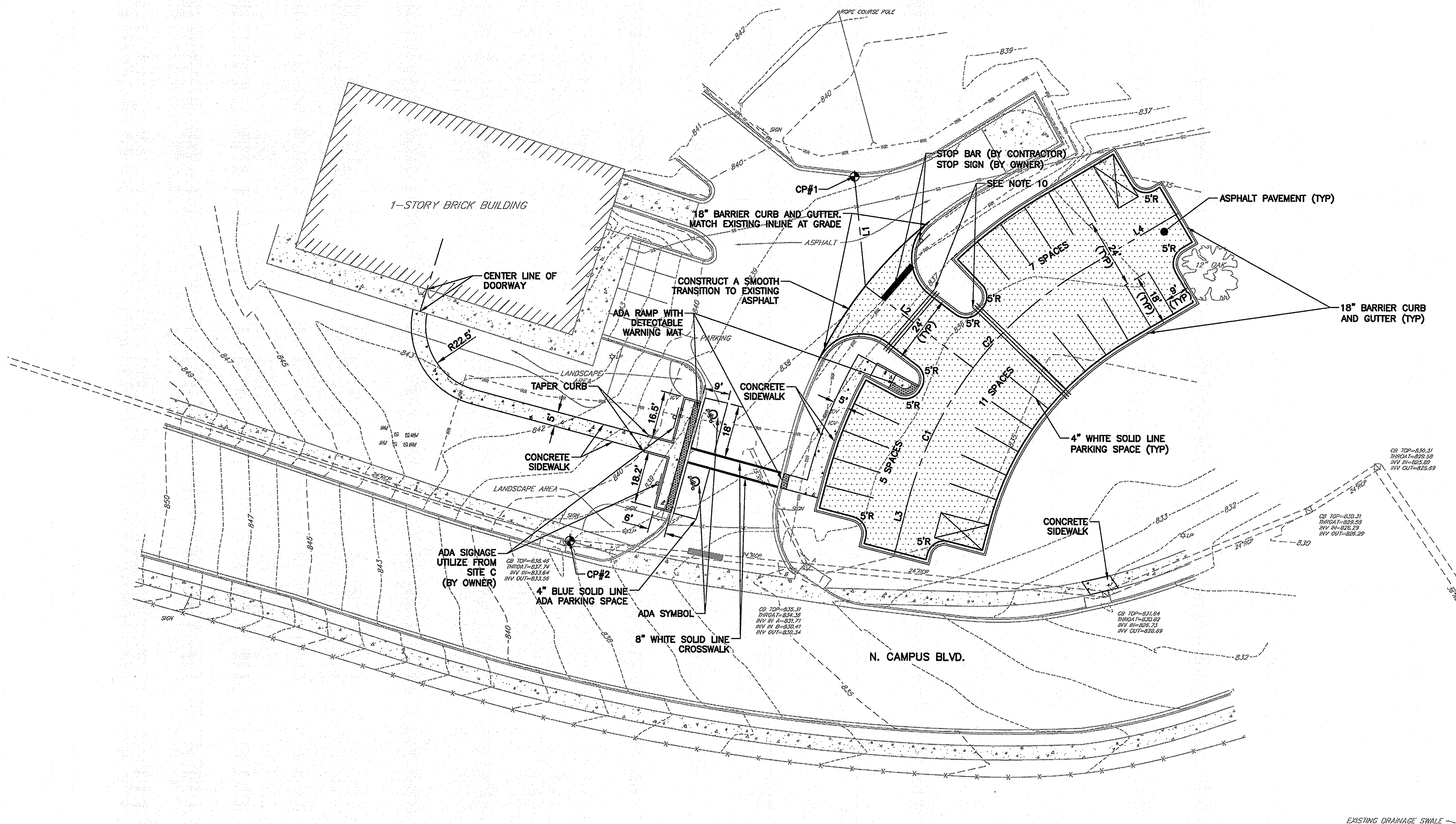
DATE: MARCH 27, 2014 | SCALE: 1"=20'

PROJECT
**USC UPSTATE
PARKING IMPROVEMENTS**
PREPARED FOR
**THE UNIVERSITY OF
SOUTH CAROLINA**
SPARTANBURG COUNTY SOUTH CAROLINA

.DWG NAME	SHEET
N.B. NO.	4
REF.	OF
PROJECT NO. 46423271	13
FILE NO. 36,266-B90	

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NA PROJECTS 46423271 USARMS/USC/ESTD US-57-46423271-SP.DWG 3/31/2014 10:36:48 AM



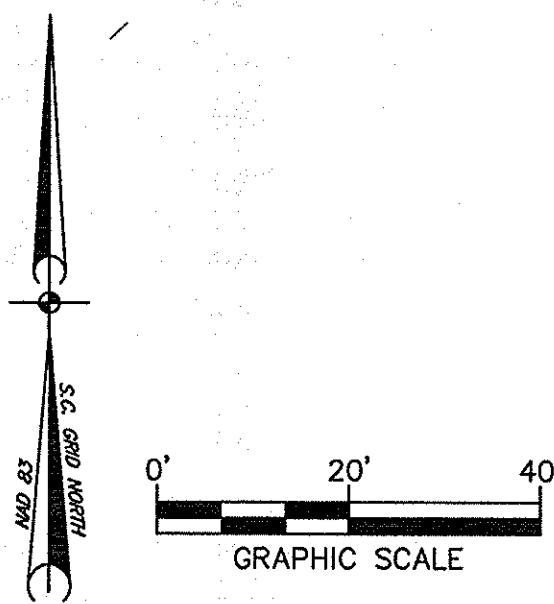
SITE A - BASE BID
SCALE: 1"=20'

NOTES

1. VERIFY FIELD CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER IF ANY DIFFERING SITE CONDITIONS ARE NOTED.
2. ALL TRAFFIC SIGNS AND PAVEMENT MARKINGS WITHIN PARKING AREA SHALL MEET ALL REQUIREMENTS OF THE SCDOT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, SPARTANBURG COUNTY AND USC UPSTATE REGULATIONS.
3. ALL WORK AND MATERIALS SHALL CONFORM TO SPARTANBURG COUNTY AND SCDOT REGULATIONS AND SPECIFICATIONS, LATEST REVISION AT BEGINNING OF CONSTRUCTION.
4. ALL DIMENSIONS AND RADII ARE TO FACE OF CURB, UNLESS OTHERWISE NOTED.
5. RADII ON ALL ISLANDS ARE 5' UNLESS OTHERWISE NOTED.
6. CONTRACTOR TO ENSURE POSITIVE DRAINAGE ON ALL FINISHED GRADE SURFACES.
7. REPAIR ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES ANY LOW AREAS OR "BIRD BATHS" AS DETERMINED BY THE ENGINEER THAT EXIST IN PAVED AREAS AT NO ADDITIONAL COST TO THE OWNER.
8. **PARKING SPACES TABULATION:**
PROPOSED SPACES: 23 SPACES
PROPOSED ADA SPACES: 2 SPACES
NET TOTAL: 25 SPACES
9. ALL PAVEMENT MARKINGS SHALL BE WHITE UNLESS OTHERWISE NOTED, ADA PAVEMENT MARKINGS SHALL BE BLUE.
10. 3-SCH 40 4" PVC CONDUITS, 12" O.C. MINIMUM. CONDUITS SHALL EXTEND 12" OFF BACK OF CURB AND/OR CONCRETE/PAVING EDGE AND THE CURB/PAVING SHALL HAVE AN "X" SAWCUT AT THE CONDUIT LOCATION AT EACH END OF THE GROUP. THE CONDUITS SHALL HAVE A MINIMUM OF 2' OF COVER AND HAVE TRACER WIRE OVER EACH INDIVIDUAL CONDUIT.
11. NEW SITE LIGHTING AND IRRIGATION SHALL BE COORDINATED AND INSTALLED BY THE OWNER.

LINE DATA		
LINE	LENGTH	DIRECTION
L1	37.94	S5°46'10"E
L2	46.63	S52°57'44"E
L3	18.27	N14°22'41"E
L4	35.87	N59°22'24"E

CURVE DATA						
CURVE	RADIUS	LENGTH	BEARING	CHORD	TANGENT	DELTA
C1	132.00'	52.20	N25°42'29"E	51.86'	26.45'	22.66
C2	132.00'	51.46	N48°12'20"E	51.13'	26.06'	22.34



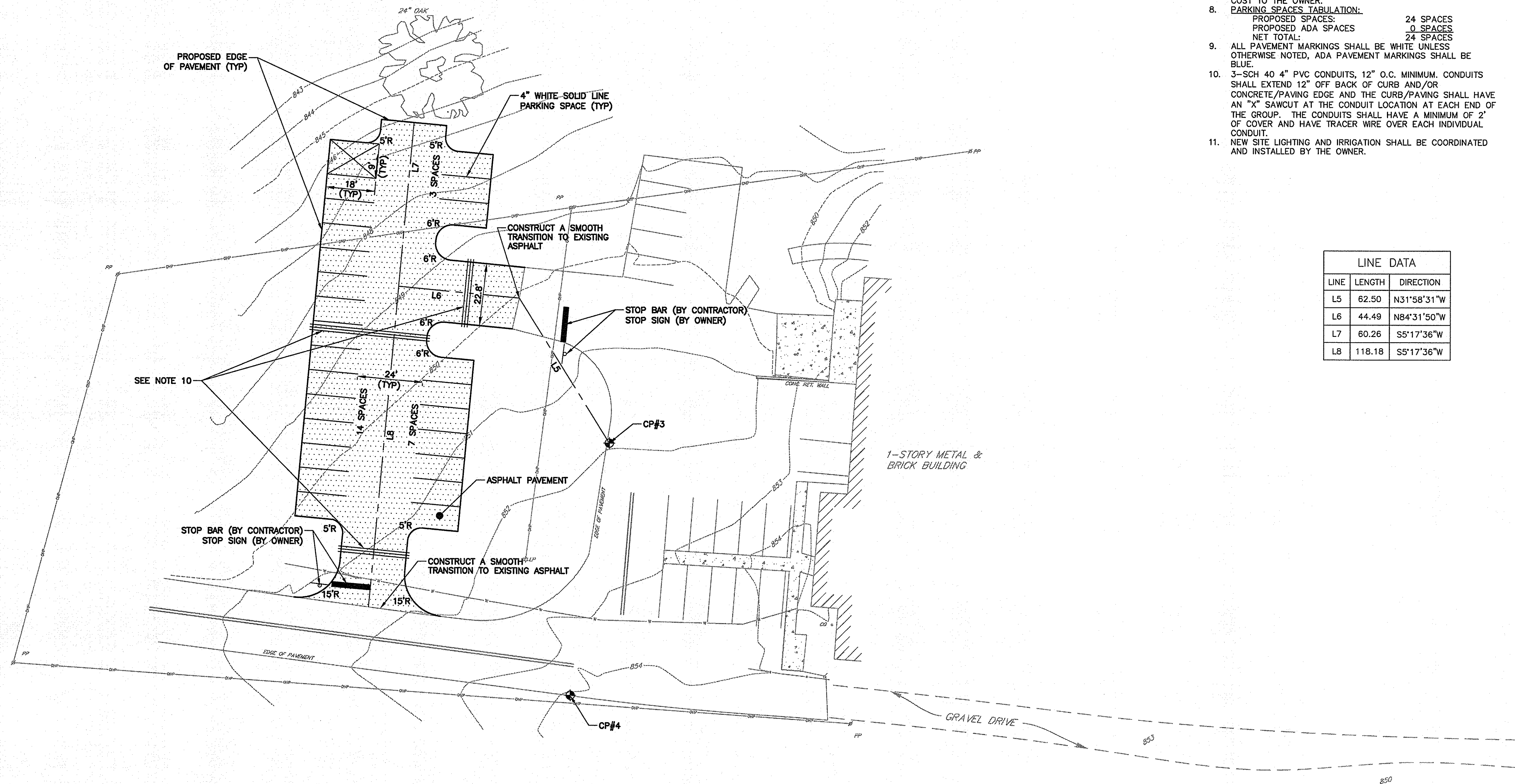
USC PROJECT NO.
CP00395003

BID DOCUMENTS
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ARE NOT FOR USE FOR CONSTRUCTION

REVISIONS		NO.	DESCRIPTION	DATE	BY
APPROVALS		PROJECT ENG:	DESIGNED BY:	DRAWN BY:	CHECKED BY:
PROJECT		U.S. CAROLINA	U.S. CAROLINA	U.S. CAROLINA	U.S. CAROLINA
SHEET TITLE		SITE IMPROVEMENTS PLAN SITE A			
PROJECT		USC UPSTATE PARKING IMPROVEMENTS PREPARED FOR THE UNIVERSITY OF SOUTH CAROLINA SPARTANBURG COUNTY SOUTH CAROLINA			
DATE		MARCH 27, 2014			
SCALE		1"=20'			
DWG NAME		N.B. NO.			
REF.		PROJECT NO.			
PROJECT NO.		46423271			
FILE NO.		36,266-B90			

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IN PROJECT 46423271 (DRAWINGS) BID DRAWINGS SHEETS SS-57-46423271-SP.DWG 3/20/2014 10:27:12 AM

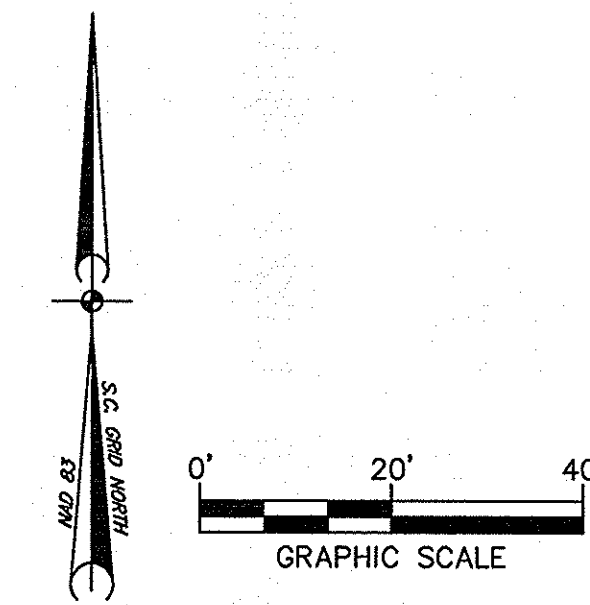


SITE B – BASE BID
SCALE: 1"=20'

NOTES

1. VERIFY FIELD CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER IF ANY DIFFERING SITE CONDITIONS ARE NOTED.
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3. ALL WORK AND MATERIALS SHALL CONFORM TO SPARTANBURG COUNTY AND SCDOT REGULATIONS AND SPECIFICATIONS, LATEST REVISION AT BEGINNING OF CONSTRUCTION.
4. ALL DIMENSIONS AND RADII ARE TO EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED.
5. RADII ON ALL ISLANDS ARE 5' UNLESS OTHERWISE NOTED.
6. CONTRACTOR TO ENSURE POSITIVE DRAINAGE ON ALL FINISHED GRADE SURFACES.
7. REPAIR ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES ANY LOW AREAS OR "BIRD BATHS" AS DETERMINED BY THE ENGINEER THAT EXIST IN PAVED AREAS AT NO ADDITIONAL COST TO THE OWNER.
8. PARKING SPACES TABULATION:
PROPOSED SPACES: 24 SPACES
PROPOSED ADA SPACES 0 SPACES
NET TOTAL: 24 SPACES
9. ALL PAVEMENT MARKINGS SHALL BE WHITE UNLESS OTHERWISE NOTED, ADA PAVEMENT MARKINGS SHALL BE BLUE.
10. 3-SCH 40 4" PVC CONDUITS, 12" O.C. MINIMUM. CONDUITS SHALL EXTEND 12" OFF BACK OF CURB AND/OR CONCRETE/PAVING EDGE AND THE CURB/PAVING SHALL HAVE AN "X" SAWCUT AT THE CONDUIT LOCATION AT EACH END OF THE GROUP. THE CONDUITS SHALL HAVE A MINIMUM OF 2' OF COVER AND HAVE TRACER WIRE OVER EACH INDIVIDUAL CONDUIT.
11. NEW SITE LIGHTING AND IRRIGATION SHALL BE COORDINATED AND INSTALLED BY THE OWNER.

LINE DATA		
LINE	LENGTH	DIRECTION
L5	62.50	N31°58'31"W
L6	44.49	N84°31'50"W
L7	60.26	S5°17'36"W
L8	118.18	S5°17'36"W



USC PROJECT NO.
CP00395003

BID DOCUMENTS
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ARE NOT FOR USE FOR CONSTRUCTION

REVISIONS

NO.	DESCRIPTION	DATE	BY

APPROVALS

PROJECT ENG.	DESIGNED BY:	DRAWN BY:	CHECKED BY:	APPROVED:
MOJ	MOJ	EHM	BET	BET

URS CORPORATION

REGISTERED PROFESSIONAL ENGINEER

STATE OF SOUTH CAROLINA

NO. 25636

DATE: 3/27/14

SIGNATURE

URS

101 Research Drive
Columbia, South Carolina 29203
Telephone (803) 254-4400 • Fax (803) 771-6676
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SHEET TITLE

SITE IMPROVEMENTS
PLAN
SITE B

DATE: MARCH 27, 2014 SCALE: 1"=20'

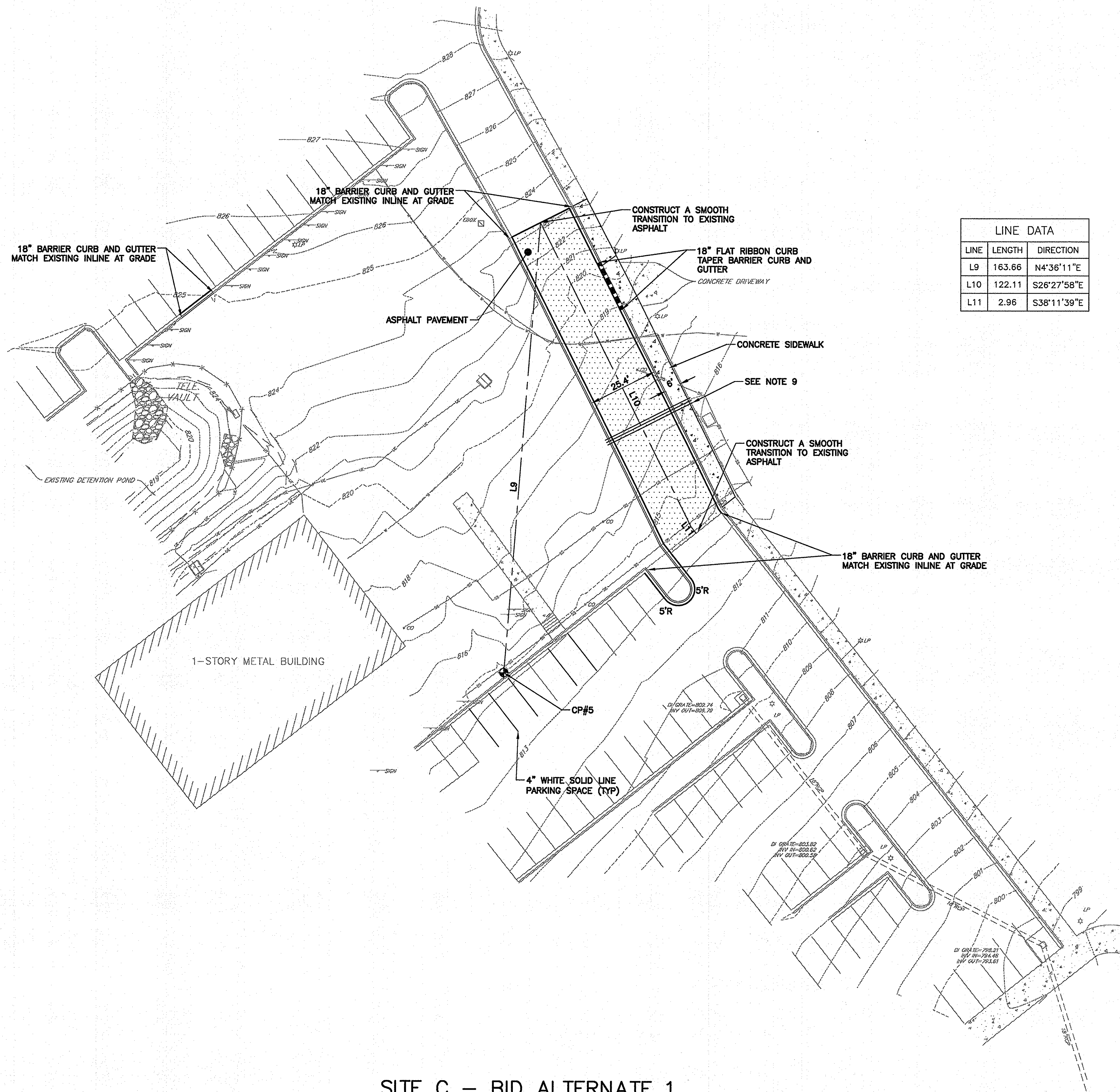
PROJECT

USC UPSTATE
PARKING IMPROVEMENTS
PREPARED FOR
THE UNIVERSITY OF
SOUTH CAROLINA
SPARTANBURG COUNTY SOUTH CAROLINA

.DWG NAME	SHEET
N.B. NO.	6
REF.	OF
PROJECT NO.	13
46423271	
FILE NO.	36,266-B90

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NA PROJECTS\4643271\UPSTATE\SHEDS\SS-57-4643271_SP.DWG 3/31/2014 10:38:43 AM

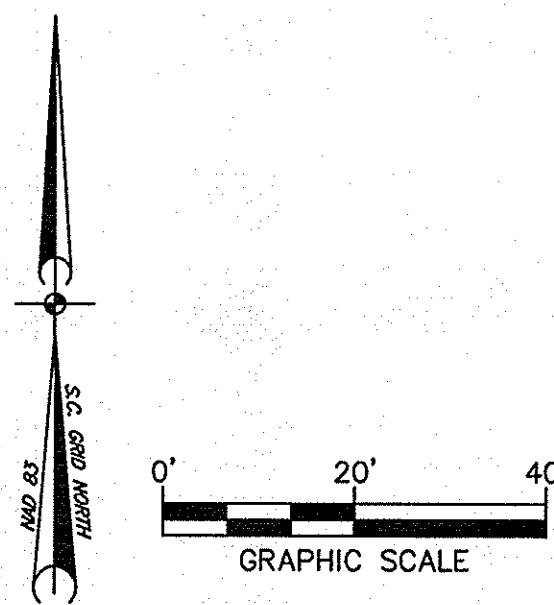


LINE DATA		
LINE	LENGTH	DIRECTION
L9	163.66	N4°36'11"E
L10	122.11	S26°27'58"E
L11	2.96	S38°11'39"E

NOTES

1. VERIFY FIELD CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER IF ANY DIFFERING SITE CONDITIONS ARE NOTED.
2. ALL TRAFFIC SIGNS AND PAVEMENTS MARKINGS SHALL MEET ALL REQUIREMENTS OF THE SCDOT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, SPARTANBURG COUNTY AND USC UPSTATE REGULATIONS.
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5. RADII ON ALL ISLANDS ARE 5' UNLESS OTHERWISE NOTED.
6. CONTRACTOR TO ENSURE POSITIVE DRAINAGE ON ALL FINISHED GRADE SURFACES.
7. REPAIR ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES ANY LOW AREAS OR "BIRD BATHS" AS DETERMINED BY THE ENGINEER THAT EXIST IN PAVED AREAS AT NO ADDITIONAL COST TO THE OWNER.
8. ALL PAVEMENT MARKINGS SHALL BE WHITE UNLESS OTHERWISE NOTED, ADA PAVEMENT MARKINGS SHALL BE BLUE.
9. 3-SCH 40 4" PVC CONDUITS, 12" O.C. MINIMUM. CONDUITS SHALL EXTEND 12" OFF BACK OF CURB AND/OR CONCRETE/PAVING EDGE AND THE CURB/PAVING SHALL HAVE AN "X" SAWCUT AT THE CONDUIT LOCATION AT EACH END OF THE GROUP. THE CONDUITS SHALL HAVE A MINIMUM OF 2' OF COVER AND HAVE TRACER WIRE OVER EACH INDIVIDUAL CONDUIT.
10. NEW SITE LIGHTING AND IRRIGATION SHALL BE COORDINATED AND INSTALLED BY THE OWNER.

SITE C - BID ALTERNATE 1
SCALE: 1"=20'



USC PROJECT NO.
CP00395003

BID DOCUMENTS

THESE DOCUMENTS ARE FOR THE
PURPOSE OF SOLICITATION OF BIDS AND
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REVISIONS

NO.	DESCRIPTION	DATE	BY

APPROVALS

PROJECT ENG.	DESIGNED BY:	DRAWN BY:	CHECKED BY:	APPROVED:
MDJ	MDJ	MDJ	MDJ	MDJ

URS CORPORATION
CERTIFICATE OF QUALITY
3-27-14
DATE

SEAL OF PROFESSIONAL ENGINEER
SOUTH CAROLINA
No. 26136
DATE: MARCH 27, 2014
SCALE: 1"=20'

URS
101 Research Drive
Columbia, South Carolina 29203
Telephone (803) 254-4400 : Fax (803) 771-6676
www.URSCorp.com

SITE IMPROVEMENTS
PLAN
SITE C

USC UPSTATE
PARKING IMPROVEMENTS
PREPARED FOR
THE UNIVERSITY OF
SOUTH CAROLINA
SPARTANBURG COUNTY

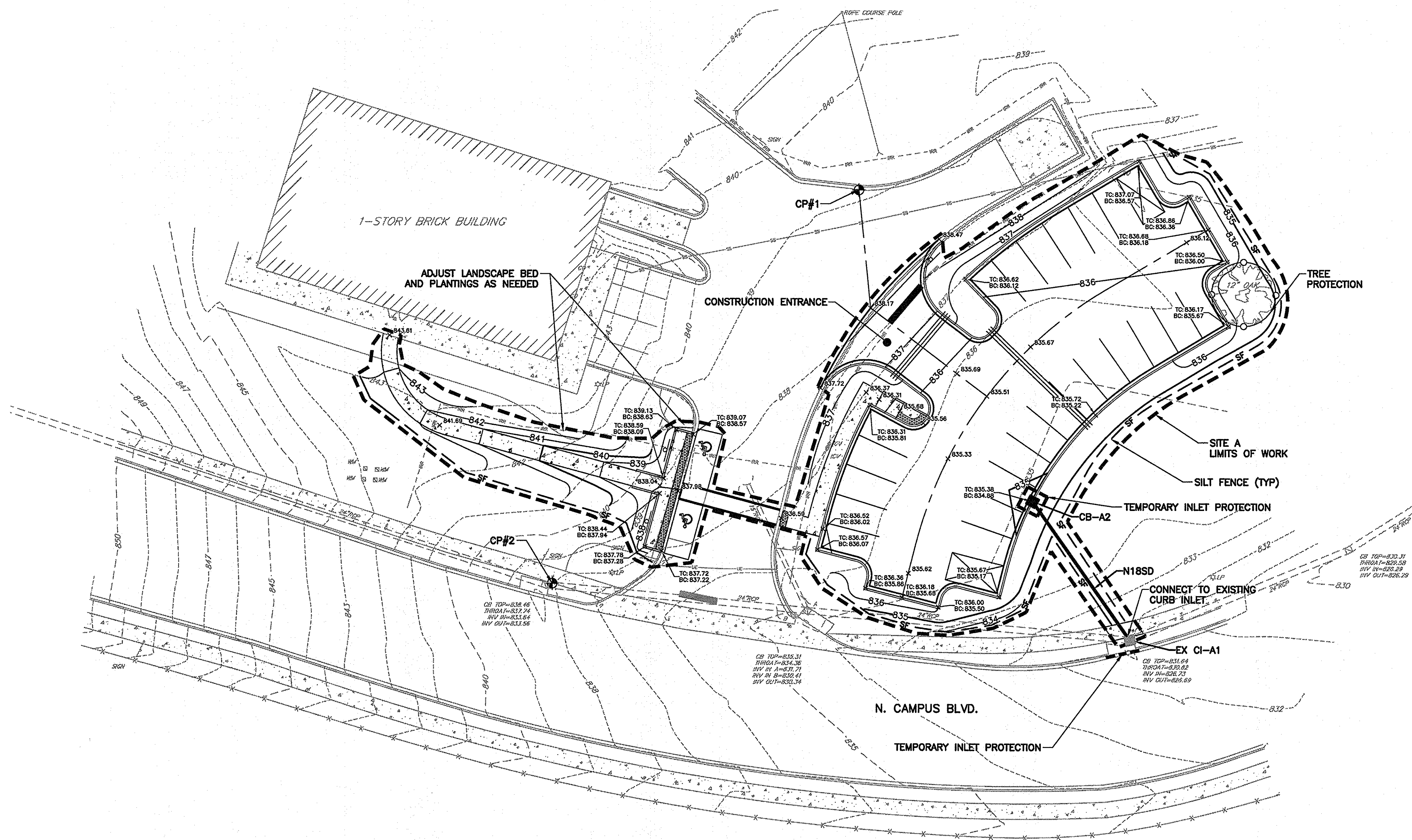
DATE: MARCH 27, 2014
SCALE: 1"=20'

DWG NAME
N.B. NO.
REF.
PROJECT NO.
46423271

SHEET
7
OF
13
FILE NO. 36,266-B90

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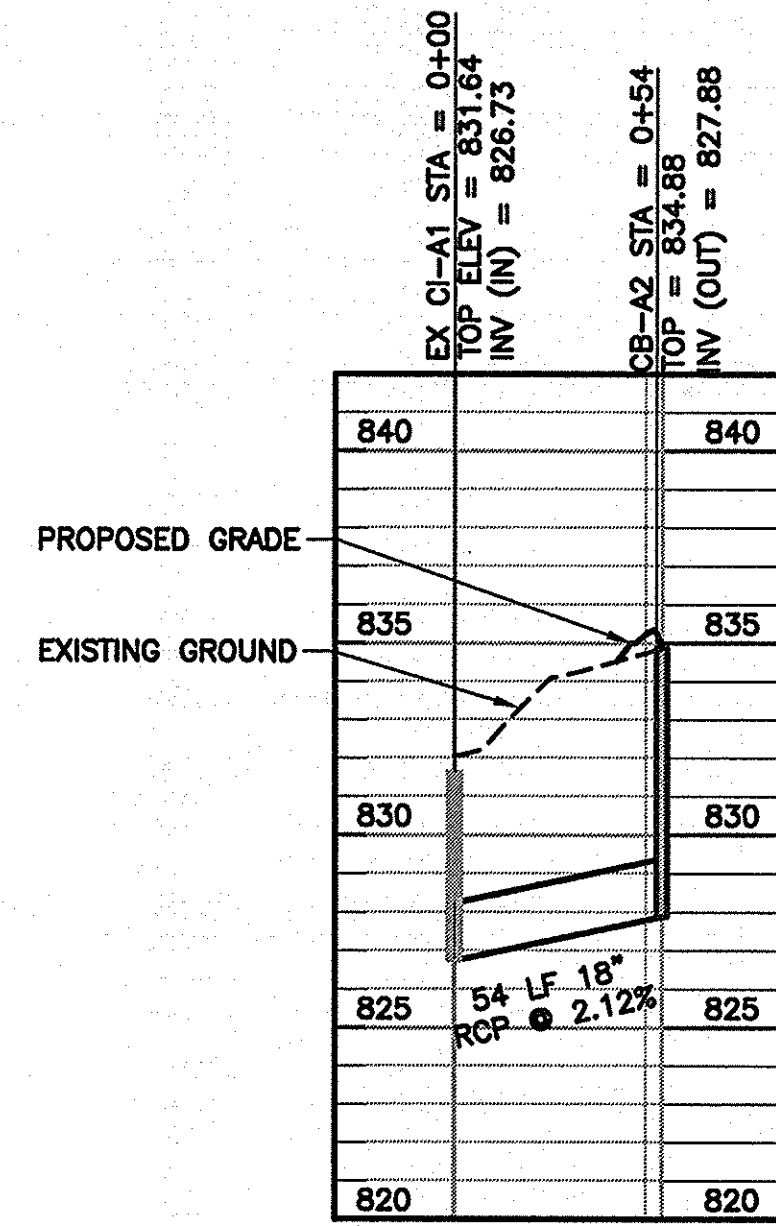


SITE A - BASE BID
SCALE: 1"=20'

NOTES

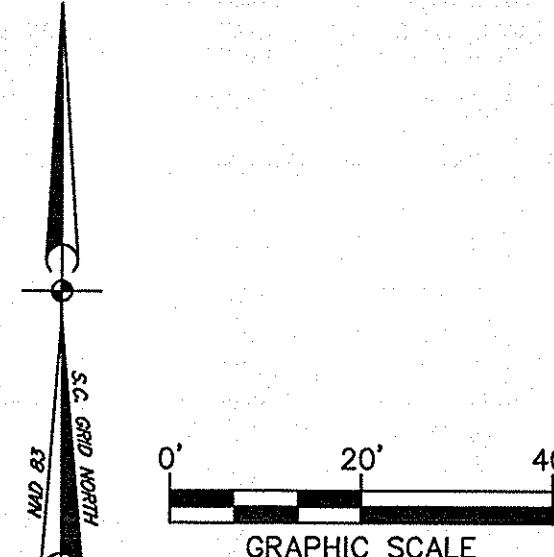
1. ALL ELEVATIONS ARE BASED ON REFERENCED BENCHMARK DATUM.
2. SPOT ELEVATIONS SHOWN ALONG CURB LINE ARE TO THE FACE OF CURB, BOTTOM OF CURB.
3. SPOT ELEVATION NOTATION IS DEFINED BY THE FOLLOWING: BC: BOTTOM OF CURB, TC: TOP OF CURB.
4. WHEN GRADING BETWEEN CONTOURS AND BETWEEN POINTS OF SPOT ELEVATIONS, GRADE ON A UNIFORM SLOPE.
5. BEFORE BEGINNING GRADING WORK ON SITE, STAKE SILT FENCE AS SHOWN ON THE PLANS. AS SEDIMENT BUILDS UP AROUND SILT FENCE, REMOVE SEDIMENT AND REPLACE WHERE EROSION HAS TAKEN PLACE.
6. INSTALL AND MAINTAIN TEMPORARY EROSION CONTROL MEASURES UNTIL STABILIZATION IS ACHIEVED.
7. PROMPTLY INFORM THE ENGINEER OF ANY ERROR OR DISCREPANCIES DISCOVERED IN THE DRAWINGS OR SPECIFICATIONS OR CONFLICT BETWEEN THE DRAWINGS OR SPECIFICATIONS IN ORDER FOR CORRECTIONS TO BE MADE.
8. ALL WORK AND MATERIALS MUST CONFORM TO SPARTANBURG COUNTY AND SCDHEC REGULATIONS AND SPECIFICATIONS, LATEST REVISION AT BEGINNING OF CONSTRUCTION.
9. CLEAR ALL BRUSH, STUMPS AND OTHER ORGANIC MATERIAL FROM AREAS TO BE FILLED.
10. REMOVE ALL UNSUITABLE MATERIAL (MUCK OR NON-COMPACTABLE MATERIAL) FROM AREAS TO BE FILLED AS DETERMINED BY ENGINEER.
11. GRADE BENEATH ROADWAYS AND PARKING SHALL BE COMPLETED TO FINAL GRADE AS SHOWN ON THE DRAWINGS LESS THE PAVEMENT SECTION THICKNESS. FINISH SURFACES TO WITHIN 0.10' ABOVE OR BELOW THE REQUIRED GRADE OR APPROVED CROSS SECTION FOR THE REMAINDER OF THE SITE REQUIRED.
12. FOR ALL GRASSED AREAS, BE RESPONSIBLE FOR REPLACING ERODED SOIL AND GRASS SEED UNTIL AN APPROVED STAND OF GRASS IS ESTABLISHED.
13. EACH SECTION OF PIPE SHALL BE LAID TO SPECIFIED GRADE AND LAID UPGRADE.
14. KEEP ALL ROADS ADJACENT TO SITE CLEAN DURING CONSTRUCTION.
15. BE AWARE OF EXISTING UTILITY LINES DURING PIPE LINE INSTALLATION. CONTRACTOR SHALL NOTIFY UTILITY COMPANIES SUCH AS THE LOCAL ELECTRIC COMPANY ETC. FOR LOCATION OF OTHER UTILITIES NOT SHOWN ON PLAN. CALL PALMETTO UTILITY PROTECTION SERVICES (PUPS) FOR UNDERGROUND UTILITY LINES LOCATION.
16. REPAIR ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES AND ANY LOW AREAS OR "BIRD BATHS" AS DETERMINED BY THE ENGINEER THAT EXIST IN PAVED AREAS, AT NO ADDITIONAL COST TO THE OWNER.
17. VERIFY ALL FIELD CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER IF ANY DIFFERING SITE CONDITIONS ARE NOTED.

18. ALL NEWLY CONSTRUCTED SLOPES WHICH ARE STEEPER THAN 3 TO 1 MUST BE STABILIZED BY INSTALLATION OF EROSION CONTROL MATTING. OTHER AREAS SUCH AS CHANNEL BOTTOMS, CHANNEL SIDESLOPES, AND SLOPES NEAR SENSITIVE WETLAND AREAS MAY ALSO REQUIRE EROSION CONTROL MATTING WHERE SHOWN ON PLANS. USE NORTH AMERICAN GREEN S150 OR APPROVED EQUAL.
19. ALL VEGETATION TOPSOIL SHALL BE STRIPPED AND STOCKPILED AT A LOCATION ON CAMPUS PROVIDED BY THE OWNER PRIOR TO LACING FILL. TOPSOIL SHALL BE SPREAD OVER AREAS NOT TO BE PAVED PRIOR TO FINAL GRASSING.
20. ANY TEMPORARY STOCKPILES SHALL HAVE PERIMETER SILT FENCE INSTALLED AT THE BASE OF THE STOCKPILE.
21. PROPOSED FILL SOILS SHALL BE FREE OF ORGANIC MATERIAL, RUBBLE, DEBRIS, HIGHLY PLASTIC CLAYS AND SILTS AND SHALL ADHERE TO THE FILL REQUIREMENTS AND RECOMMENDATIONS OF THE GEOTECHNICAL REPORT.
22. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AS NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE SITE.
23. REMOVE ALL DEBRIS AND OTHER MATERIAL RESULTING FROM DEMOLITION AND DISPOSE OF OFF SITE UNLESS OTHERWISE APPROVED BY OWNER.
24. CONTRACTOR SHALL FIELD VERIFY EXACT ELEVATIONS AT ALL TIE IN LOCATIONS WITH EXISTING FINISHED SURFACES AND SHALL MATCH EXISTING ROAD AND PAVEMENT GRADES AND ENSURE SMOOTH TRANSITION AT ROAD TIE IN LOCATIONS.
25. GRADES SHOWN ARE FINAL SURFACE ELEVATIONS.
26. ALL CATCH BASIN AND DROP INLET GRATES ARE TO BE STAMPED WITH "NO DUMPING-DRAINS TO WATERWAY" OR APPROVED EQUAL.
27. PRIOR TO CONSTRUCTION, REVIEW THESE CIVIL PLANS WITH PLANS FROM OTHER TRADES AND NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
28. ENSURE POSITIVE DRAINAGE OF ALL FINISHED GRADE SURFACES.
29. GRASSING SHALL BE APPLIED TO ALL DISTURBED AREAS NOT STABILIZED WITH ASPHALT, CONCRETE OR LANDSCAPED WITH PLANT MATERIALS.
30. ALL EXISTING UTILITY BOXES, MANHOLES, VALVES, METER BOXES, INLETS, CLEANOUTS, ETC. SHALL BE FIELD ADJUSTED TO MATCH FINISHED GRADE.



CONTRACTOR TO PROVIDE ON-SITE RESTROOM FACILITY AT A LOCATION DEEMED ACCEPTABLE BY THE OWNER.

CONTRACTOR TO PROVIDE ON-SITE CONCRETE WASHOUT AREA PER DETAIL ON SHEET 13 AND PROPERLY REMOVE AT PROJECT COMPLETION



USC PROJECT NO.
CP00395003

BID DOCUMENTS

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REVISIONS	
NO.	DESCRIPTION

APPROVALS	
PROJECT ENG.	DATE
DESIGNED BY:	BY
DRAWN BY:	
CHECKED BY:	
APPROVED:	

URS

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USC UPSTATE PARKING IMPROVEMENTS

PREPARED FOR
THE UNIVERSITY OF SOUTH CAROLINA

SPARTANBURG COUNTY SOUTH CAROLINA

GRADING, STORM DRAINAGE AND EROSION CONTROL PLAN-SITE A

DATE: MARCH 27, 2014 SCALE: 1"=20'

PROJECT

DWG NAME
N.B. NO.
REF.
PROJECT NO.
46423271

SHEET

8
OF
13

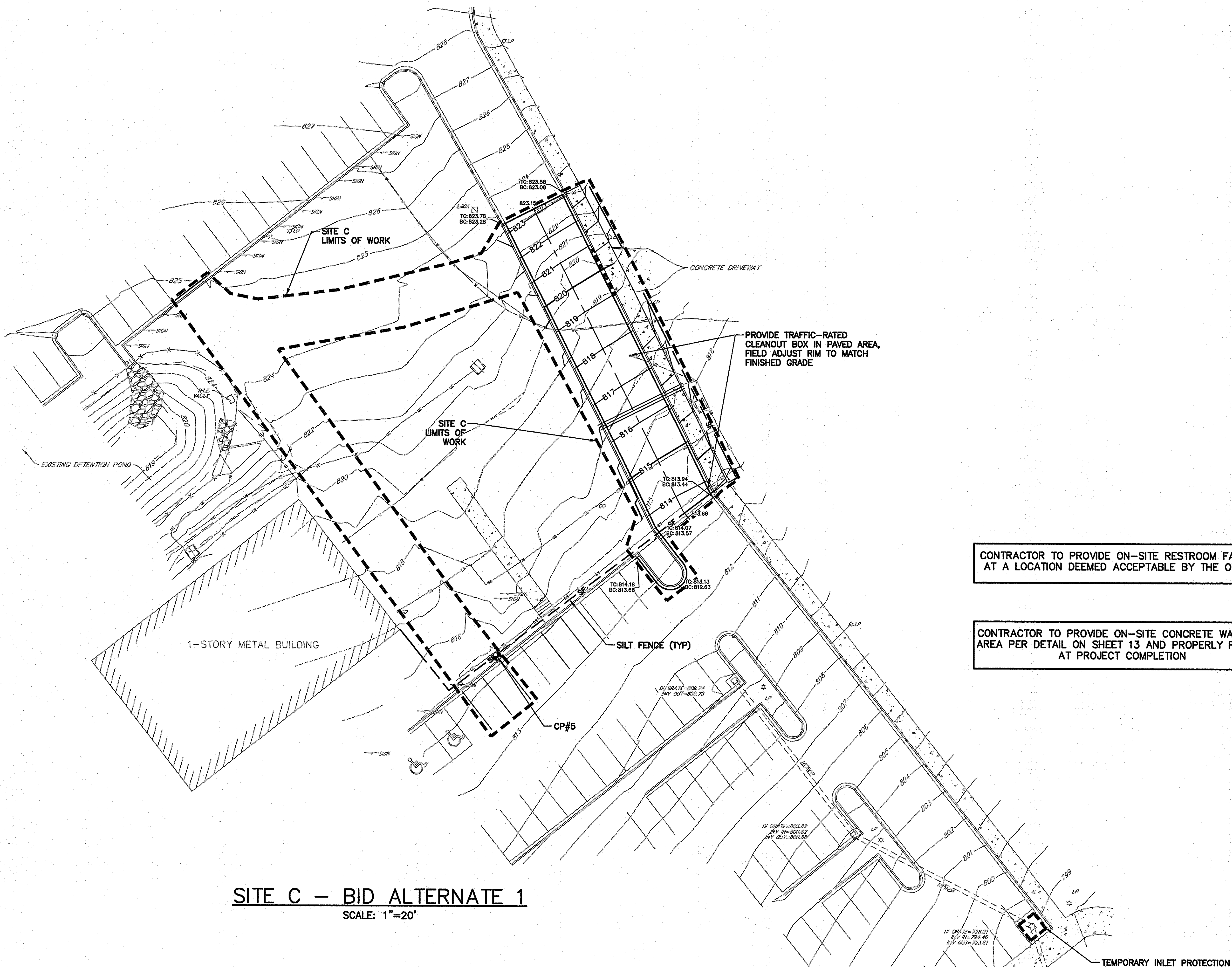
FILE NO. 36,266-B90

SITE B - BASE BID
SCALE: 1"=20'

FILE NO. 36,266-B9C

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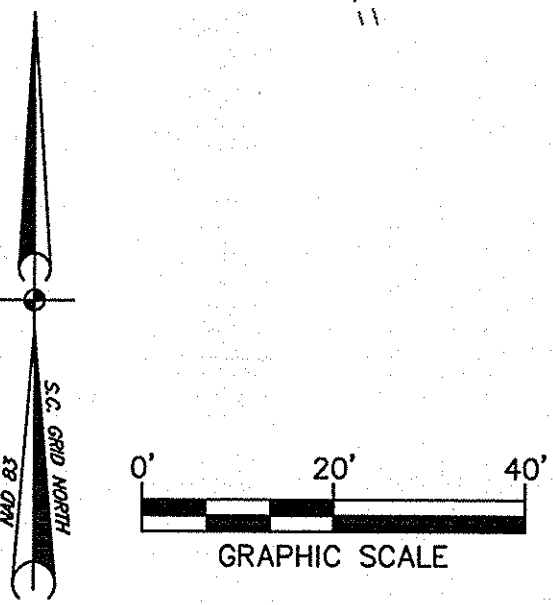
SITE C – BID ALTERNATE 1
SCALE: 1"=20'

NOTES

1. ALL ELEVATIONS ARE BASED ON REFERENCED BENCHMARK DATUM.
2. SPOT ELEVATIONS SHOWN ALONG CURB LINE ARE TO THE FACE OF CURB, BOTTOM OF CURB.
3. SPOT ELEVATION NOTATION IS DEFINED BY THE FOLLOWING: BC: BOTTOM OF CURB, TC: TOP OF CURB.
4. WHEN GRADING BETWEEN CONTOURS AND BETWEEN POINTS OF SPOT ELEVATIONS, GRADE ON A UNIFORM SLOPE.
5. BEFORE BEGINNING GRADING WORK ON SITE, STAKE SILT FENCE AS SHOWN ON THE PLANS. AS SEDIMENT BUILDS UP AROUND SILT FENCE, REMOVE SEDIMENT AND REPLACE WHERE EROSION HAS TAKEN PLACE.
6. INSTALL AND MAINTAIN TEMPORARY EROSION CONTROL MEASURES UNTIL STABILIZATION IS ACHIEVED.
7. PROMPTLY INFORM THE ENGINEER OF ANY ERROR OR DISCREPANCIES DISCOVERED IN THE DRAWINGS OR SPECIFICATIONS OR CONFLICT BETWEEN THE DRAWINGS OR SPECIFICATIONS IN ORDER FOR CORRECTIONS TO BE MADE.
8. ALL WORK AND MATERIALS MUST CONFORM TO SPARTANBURG COUNTY AND SCHEC REGULATIONS AND SPECIFICATIONS, LATEST REVISION AT BEGINNING OF CONSTRUCTION.
9. CLEAR ALL BRUSH, STUMPS AND OTHER ORGANIC MATERIAL FROM AREAS TO BE FILLED.
10. REMOVE ALL UNSUITABLE MATERIAL (MUCK OR NON-COMPACTABLE MATERIAL) FROM AREAS TO BE FILLED AS DETERMINED BY ENGINEER.
11. GRADE BENEATH ROADWAYS AND PARKING SHALL BE COMPLETED TO FINAL GRADE AS SHOWN ON THE DRAWINGS LESS THE PAVEMENT SECTION THICKNESS. FINISH SURFACES TO WITHIN 0.10' ABOVE OR BELOW THE REQUIRED GRADE OR APPROVED CROSS SECTION FOR THE REMAINDER OF THE SITE REQUIRED.
12. FOR ALL GRASSSED AREAS, BE RESPONSIBLE FOR REPLACING ERODED SOIL AND GRASS SEED UNTIL AN APPROVED STAND OF GRASS IS ESTABLISHED.
13. EACH SECTION OF PIPE SHALL BE LAID TO SPECIFIED GRADE AND LAID UPGRADE.
14. KEEP ALL ROADS ADJACENT TO SITE CLEAN DURING CONSTRUCTION.
15. BE AWARE OF EXISTING UTILITY LINES DURING PIPE LINE INSTALLATION. CONTRACTOR SHALL NOTIFY UTILITY COMPANIES SUCH AS THE LOCAL ELECTRIC COMPANY ETC. FOR LOCATION OF OTHER UTILITIES NOT SHOWN ON PLAN. CALL PALMETTO UTILITY PROTECTION SERVICES (PUPS) FOR UNDERGROUND UTILITY LINES LOCATION.
16. REPAIR ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES AND ANY LOW AREAS OR "BIRD BATHS" AS DETERMINED BY THE ENGINEER THAT EXIST IN PAVED AREAS, AT NO ADDITIONAL COST TO THE OWNER.
17. VERIFY ALL FIELD CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER IF ANY DIFFERING SITE CONDITIONS ARE NOTED.
18. ALL NEWLY CONSTRUCTED SLOPES WHICH ARE STEEPER THAN 3 TO 1 MUST BE STABILIZED BY INSTALLATION OF EROSION CONTROL MATTING. OTHER AREAS SUCH AS CHANNEL BOTTOMS, CHANNEL SIDESLOPES, AND SLOPES NEAR SENSITIVE WETLAND AREAS MAY ALSO REQUIRE EROSION CONTROL MATTING WHERE SHOWN ON PLANS. USE NORTH AMERICAN GREEN S150 OR APPROVED EQUAL.
19. ALL VEGETATION TOPSOIL SHALL BE STRIPPED AND STOCKPILED AT A LOCATION ON CAMPUS PROVIDED BY THE OWNER PRIOR TO PLACING FILL. TOPSOIL SHALL BE SPREAD OVER AREAS NOT TO BE PAVED PRIOR TO FINAL GRASSING.
20. ANY TEMPORARY STOCKPILES SHALL HAVE PERIMETER SILT FENCE INSTALLED AT THE BASE OF THE STOCKPILE.
21. PROPOSED FILL SOILS SHALL BE FREE OF ORGANIC MATERIAL, RUBBLE, DEBRIS, HIGHLY PLASTIC CLAYS AND SILTS AND SHALL ADHERE TO THE FILL REQUIREMENTS AND RECOMMENDATIONS OF THE GEOTECHNICAL REPORT.
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25. GRADES SHOWN ARE FINAL SURFACE ELEVATIONS.
26. ALL CATCH BASIN AND DROP INLET GRATES ARE TO BE STAMPED WITH "NO DUMPING-DRAINS TO WATERWAY" OR APPROVED EQUAL.
27. PRIOR TO CONSTRUCTION, REVIEW THESE CIVIL PLANS WITH PLANS FROM OTHER TRADES AND NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
28. ENSURE POSITIVE DRAINAGE OF ALL FINISHED GRADE SURFACES.
29. GRASSING SHALL BE APPLIED TO ALL DISTURBED AREAS NOT STABILIZED WITH ASPHALT, CONCRETE OR LANDSCAPED WITH PLANT MATERIALS.
30. ALL EXISTING UTILITY BOXES, MANHOLES, VALVES, METER BOXES, INLETS, CLEANOUTS, ETC. SHALL BE FIELD ADJUSTED TO MATCH FINISHED GRADE.

CONTRACTOR TO PROVIDE ON-SITE RESTROOM FACILITY AT A LOCATION DEEMED ACCEPTABLE BY THE OWNER.

CONTRACTOR TO PROVIDE ON-SITE CONCRETE WASHOUT AREA PER DETAIL ON SHEET 13 AND PROPERLY REMOVE AT PROJECT COMPLETION



USC PROJECT NO.
CP00395003

BID DOCUMENTS

THESE DOCUMENTS ARE FOR THE PURPOSE OF SOLICITATION OF BIDS AND ARE NOT FOR USE FOR CONSTRUCTION

REVISIONS			
NO.	DESCRIPTION	DATE	BY

APPROVALS			
PROJECT ENG:	DESIGNED BY:	DRAWN BY:	CHECKED BY:
MDJ	MDJ	MDJ	MDJ

DATE: 3-23-14

SIGNATURE

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USC UPSTATE PARKING IMPROVEMENTS

PREPARED FOR
THE UNIVERSITY OF SOUTH CAROLINA

SPARTANBURG COUNTY SOUTH CAROLINA

GRADING, STORM DRAINAGE AND EROSION CONTROL PLAN-SITE C

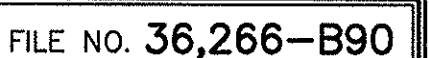
DATE: MARCH 27, 2014 SCALE: 1"=20'

PROJECT

DWG NAME: N.B. NO. 10 OF 13

REF. PROJECT NO. 46423271

FILE NO. 36,266-B90



STANDARD NOTES:

1. ALL ELEVATIONS ARE BASED ON MEAN SEA LEVEL DATUM.
2. CONTRACTOR SHALL, FOR ALL GRASSED AREAS, BE RESPONSIBLE FOR REPLACING ERODED SOIL AND GRASS SEED UNTIL AN APPROVED STAND OF GRASS IS ESTABLISHED.
3. CONTRACTOR SHALL, BEFORE BEGINNING GRADING WORK ON SITE, STAKE SILT FENCE AND INSTALL PERIMETER BARRIERS AS SHOWN ON THIS PLAN.
4. CONTRACTOR SHALL BE AWARE OF EXISTING UTILITY LINES DURING PIPE LINE INSTALLATION. CONTRACTOR SHALL NOTIFY UTILITY COMPANIES SUCH AS THE LOCAL ELECTRIC COMPANY, AT&T, ETC. FOR LOCATION OF OTHER UTILITIES NOT SHOWN ON PLAN. CALL PALMETTO UTILITIES PROTECTION SERVICES (888-721-7877) FOR UNDERGROUND UTILITY LINES LOCATION. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
5. PROJECT ENGINEER OR ENGINEER OF ANY ERROR OR DISCREPANCIES DISCOVERED IN THE DRAWINGS OR SPECIFICATIONS OR CONFLICTS BETWEEN THE DRAWING AND SPECIFICATIONS IN ORDER FOR CORRECTIONS TO BE MADE.
6. ALL WORK AND MATERIALS MUST CONFORM WITH SPARTANBURG COUNTY REGULATIONS AND SPECIFICATIONS, LATEST REVISIONS AT THE BEGINNING OF CONSTRUCTION.
7. ALL NEW CONSTRUCTED SLOPES WHICH ARE STEEPER THAN 2:1 TO 1 MUST BE STABILIZED BY INSTALLATION OF EROSION CONTROL MEASURES. THESE AREAS SUCH AS CHANNEL BOTTOMS, CHANNEL SIDESLOPES, AND SLOPES NEAR SENSITIVE WETLAND AREAS MAY ALSO REQUIRE EROSION CONTROL MATTING WHERE SHOWN ON PLANS. USE NORTH AMERICAN GREEN S150 OR APPROVED EQUAL. EQUAL PRODUCTS MUST BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
8. EROSION CONTROL TEMPORARY SOD PAD AT ALL FIRE HYDRANTS OR OTHER POINTS OF DISCHARGE DURING TESTING OF THE WATER DISTRIBUTION SYSTEM.
9. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES AS MAY BE REQUIRED TO CONTROL SOIL EROSION DURING OFF SITE UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION.
10. ALL AREAS WHICH ARE DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE SEEDED AT NO ADDITIONAL EXPENSE TO THE OWNER.
11. INSTALL PERMANENT VEGETATIVE COVER AND THE LONG-TERM EROSION PROTECTION MEASURES OR STRUCTURES AS SOON AS PRACTICAL IN THE DEVELOPMENT PROCESS.
12. PROVIDE FOR HANDLING OF THE INCREASED RUNOFF CAUSED BY CHANGED SOIL AND SURFACE CONDITIONS. USE EFFECTIVE MEASURES TO CONSERVE EXISTING ON-SITE SOIL INCLUDING THE USE OF EROSION DITCHES, GRASSED WATERWAYS AND STORM SEWERS.
13. PLACE SILT FENCE BARRIERS AT LOCATIONS SHOWN ON THE EROSION CONTROL PLAN. SILT BARRIERS SHALL BE MAINTAINED IN PLACE AND IN GOOD CONDITION UNTIL GROUND COVER IS ESTABLISHED. SILT FENCE SHALL BE CLEANED OR REPLACED WHEN SILT ACCUMULATION REACHES 1/3 THE HEIGHT OF THE FENCE. SEDIMENT SHALL BE RESPAED ONSITE.
14. ALL DISTURBED AREAS NOT PAVED SHALL BE GRASSED OR LANDSCAPED. USE TEMPORARY PLANT COVER, MULCHING, AND/OR STRUCTURES TO CONTROL RUNOFF AND PROTECT AREA FROM EROSION.
15. ALL SEDIMENT AND EROSION CONTROLS ARE TO BE INSPECTED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND AFTER ANY STORM EVENT OF GREATER THAN 0.5 INCHES OF PRECIPITATION DURING ANY 24-HOUR PERIOD. MAINTENANCE OF SEDIMENT TRAPPING SHALL BE PERFORMED AS NECESSARY PER THESE INSPECTIONS. DAMAGED OR INEFFECTIVE DEVICES SHALL BE REPAIRED OR REPLACED, AS NECESSARY.
16. ADDITIONAL EROSION CONTROL MEASURES WILL BE REQUIRED DURING CONSTRUCTION TO CONTROL EROSION AND/OR OFF SITE SEDIMENTATION. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE STABILITY OF ALL GRADED AND/OR CLEARED AREAS UNTIL PERMANENT GROUND COVER IS ESTABLISHED. ANY AREAS DAMAGED BY EROSION SHALL BE REPAIRED TO ITS ORIGINAL CONDITION AND PROTECTED FROM FURTHER EROSION AT NO ADDITIONAL COST TO THE OWNER.
17. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION. UPON THE COMPLETION OF CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED, ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETED AND THE SITE STABILIZED.

1. SEED THESE AREAS IMMEDIATELY UPON COMPLETION OF GRADING OR CONSTRUCTION AND CLEAN-UP OPERATIONS.
 - A. SLOPES GREATER THAN FOUR HORIZONTAL TO ONE VERTICAL.
 - B. UTILITY RIGHTS-OF-WAY ADJACENT TO STREAM BANKS.
2. AREAS READY FOR PLANTING BETWEEN AUGUST 16 AND FEBRUARY 28 SHALL BE PLANTED WITH A TEMPORARY COVER OF SCHEDULE NO. 2. AT THE ACCEPTABLE SEASONS FOR PLANTING SCHEDULE NO. 1, THE TURF SHALL BE DESTROYED BY REWORKING THE SOIL, AND SCHEDULE NO. 1 SEEDING ESTABLISHED AS SPECIFIED HEREIN.
3. VERTICAL IN HEIGHT AND US RATE B LBS. PER 1000 SQ. FT. ON SLOPES OVER 5' HORIZONTAL TO 1' VERTICAL IN HEIGHT AND US RATE B LBS. PER 1000 SQ. FT. ON SLOPES LESS THAN 5' HORIZONTAL TO 1' VERTICAL.
4. SEE GRASSING SPECIFICATIONS (SECTION 02930) FOR ADDITIONAL REQUIREMENTS.

GRASSING SCHEDULE NO. 1 - PLANTING DATES MARCH 1 TO AUGUST 15

GRASSING SCHEDULE NO. 2 - PLANTING DATES AUGUST 16 - FEBRUARY 28.

ALL DISTURBED AREAS WHICH ARE TO BE LEFT IDLE FOR A PERIOD OF 14 DAYS OR LONGER ARE TO RECEIVE TEMPORARY VEGETATION OR MULCH.

ALL SEDIMENT AND EROSION CONTROLS ARE TO BE INSPECTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS. CONTRACTOR TO DOCUMENT WITH SCDHEC APPROVED INSPECTION REPORTS AND LOGGED IN THE PROJECT SWPPP.

IF NECESSARY, SLOPES, WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.

STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW.

A. WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.

B. WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, & EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.

ALL SEDIMENT & EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK, IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY OR INCORRECTLY INSTALLED, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF BEING NOTICED.

PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION, ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION, FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS USED TO STABILIZE, THE WATER SHOULD BE FILTERED TO REMOVE ANY SEDIMENTS BEFORE BEING PUMPED BACK INTO ANY OF THE STATE'S WATERWAYS.

ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES & ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.

THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS & THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.

CONSTRUCTION OF ANY SUBSTANTIAL IMPROVEMENT TO EXISTING INFRASTRUCTURE, AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION, INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C. REG. 72-300 ET. SEQ. AND SCR100000.

TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO DIRECT FLOOD AREAS FROM SLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE AREAS OR STABLE OUTLETS.

ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CANNOT BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS.

LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, & BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) & CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.

CONSTRUCTION OF THE PROJECT, INCLUDING THE RAILROAD, DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR NEARBY LOCATION EASILY ACCESSIBLE FOR NOT LESS THAN 96 HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.

INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, & WILL NOT RETURN FOR PERIOD OF 14 CALENDAR DAYS.

MINIMIZE SOIL COMPACTION & UNLESS INEVITABLE, PRESERVE TOPSOIL.

MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT & VEHICLE WASHING, WHEEL WASH WATER & OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT TRAP OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE.

MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES & EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPS (SEDIMENT BASIN, FILTER BAG, ETC.)

THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:

A. WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY APPROPRIATE CONTROL;

B. WASTEWATER FROM WASHOUT/CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS & OTHER CONSTRUCTION MATERIALS;

C. FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE & EQUIPMENT OPERATION & MAINTENANCE;

D. SOAPS OR SOLVENTS USED IN VEHICLE & EQUIPMENT WASHING

AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK & MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.

IF EXISTING BMP IS USED OR IF ADDITIONAL BMPS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SC'S WATER QUALITY STANDARDS IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.

A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB 10 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.

FOR CONSTRUCTION AND RECONSTRUCTION PROJECTS THAT DISTURB CONSTRUCTION SITE AND THE RAIN TALLS DEMONSTRATED FOR REVIEW BY SPARTANBURG COUNTY AND SODHEC.

A PRE-CONSTRUCTION CONFERENCE MUST BE HELD WITH SPARTANBURG COUNTY AT LEAST 48 HOURS PRIOR TO BEGINNING ANY LAND DISTURBING ACTIVITIES. THE OWNER, DESIGN ENGINEER AND CONTRACTOR MUST BE PRESENT AND HAVE OBTAINED THE STORMWATER MANAGEMENT PERMIT BEFORE THE PROJECT BEGINS.

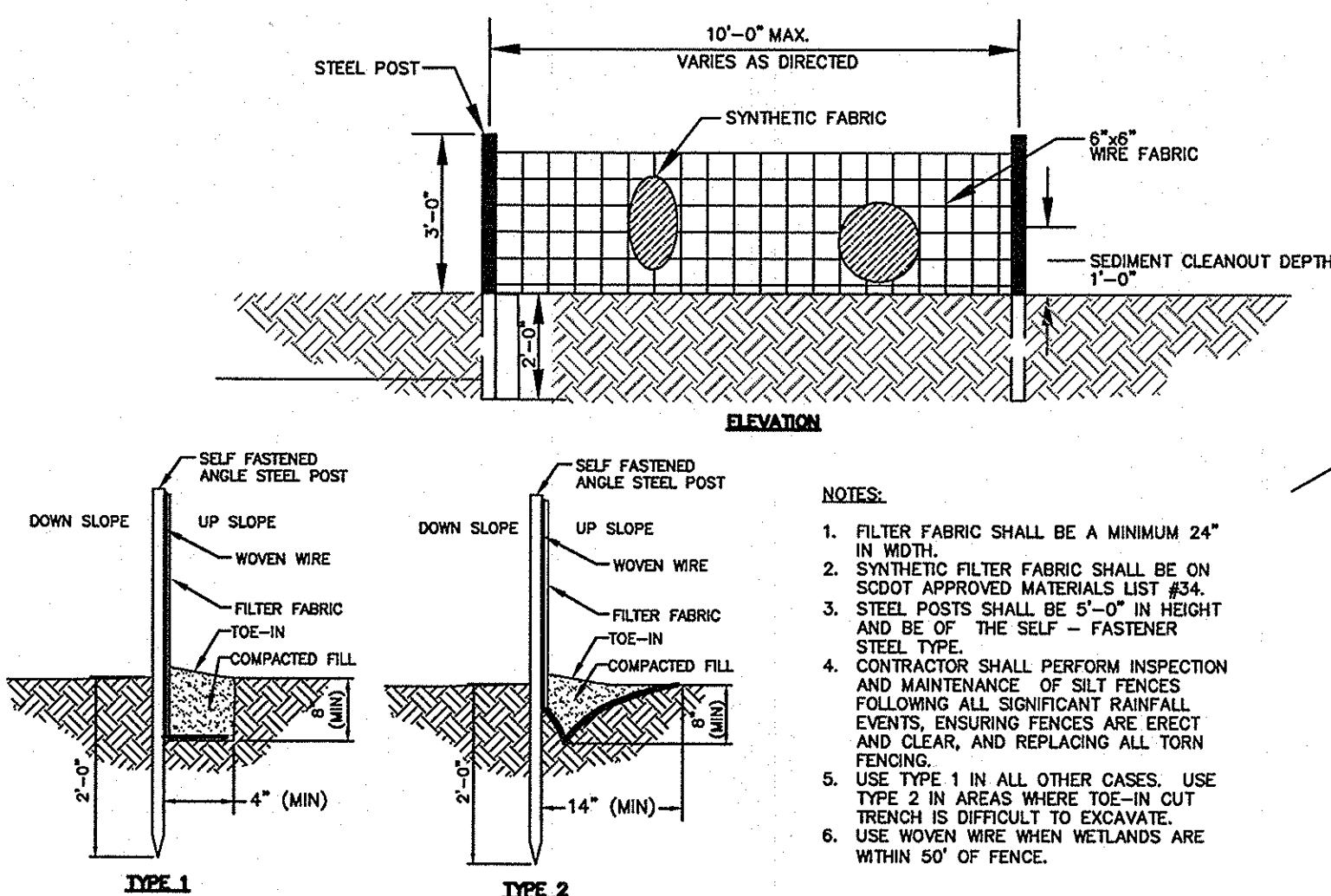
CALLING SPARTANBURG COUNTY AT 864-955-5320 TO SCHEDULE THIS MEETING.

1. RECEIVE NOTIFICATION OF NPDES COVERAGE FROM SPARTANBURG COUNTY AND SCDCHE. COORDINATE PRE-CONSTRUCTION MEETING ON-SITE AND NOTIFY SPARTANBURG COUNTY OFFICE AT LEAST 48 HOURS IN ADVANCE OF LAND DISTURBING ACTIVITIES.
2. INSTALL STABILIZED CONSTRUCTION ENTRANCE, SILT FENCE, RAIN GAUGE AND PERIMETER SOIL EROSION CONTROL MEASURES. BEGIN PERFORMING WEEKLY SCDCHE SWPPP INSPECTIONS UNTIL SITE IS PERMANENTLY STABILIZED.
3. PERFORM DEMOLITION OPERATIONS AS SHOWN ON THE PLANS AND CLEAR AND GRUB SITE IN THE AREAS TO BE DEVELOPED. REMOVE AND DISPOSE OF ITEMS OFFSITE AS APPROPRIATE.
4. STRIP AND STOCKPILE TOPSOIL AND STABILIZE STOCKPILES AS NOTED IN THE PLANS AND SPECIFICATIONS.
5. PERFORM GRADING OPERATIONS ON THE SITE. INSTALL STORM DRAINAGE IN CONJUNCTION WITH GRADING.
6. INSTALL EROSION CONTROL DEVICES AS REQUIRED OR NEEDED AS STORM DRAINAGE STRUCTURES AND THE SITE ARE EXTENDED TO FINISHED GRADE.
7. STOCKPILE UNUSED MATERIAL AND STABILIZE AS NOTED ON THE PLANS AS CONSTRUCTION PROGRESSES.
8. CONSTRUCT REMAINDER OF THE SITE IMPROVEMENTS.
9. APPLY TOPSOIL AND INITIATE PERMANENT VEGETATIVE STABILIZATION MEASURES AS FINAL GRADE IS REACHED IN AREAS DEVELOPED.
10. INSPECT AND MAINTAIN ALL STORMWATER CONTROLS AND SEDIMENT AND EROSION CONTROL MEASURES UNTIL THE SITE IS COMPLETELY STABILIZED.
11. UPON COMPLETE STABILIZATION OF SITE, REMOVE ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES AND REMOVE SEDIMENT BUILDUP FROM THE STORMWATER SYSTEM.
12. PERMIT TO THE FIELD OF CONSTRUCTION OF STORMWATER IMPROVEMENTS INCLUDING BUT NOT LIMITED TO PIPES, STRUCTURE LOCATIONS, INVERTS, RAIN/GATE ELEVATIONS, DETENTION/RETENTION PONDS, EMERGENCY SPILLWAYS AND OUTLET STRUCTURES.
13. SUBMIT NOTICE OF TERMINATION (NOT) TO SCDCHE AS APPROPRIATE. (BY ENGINEER).

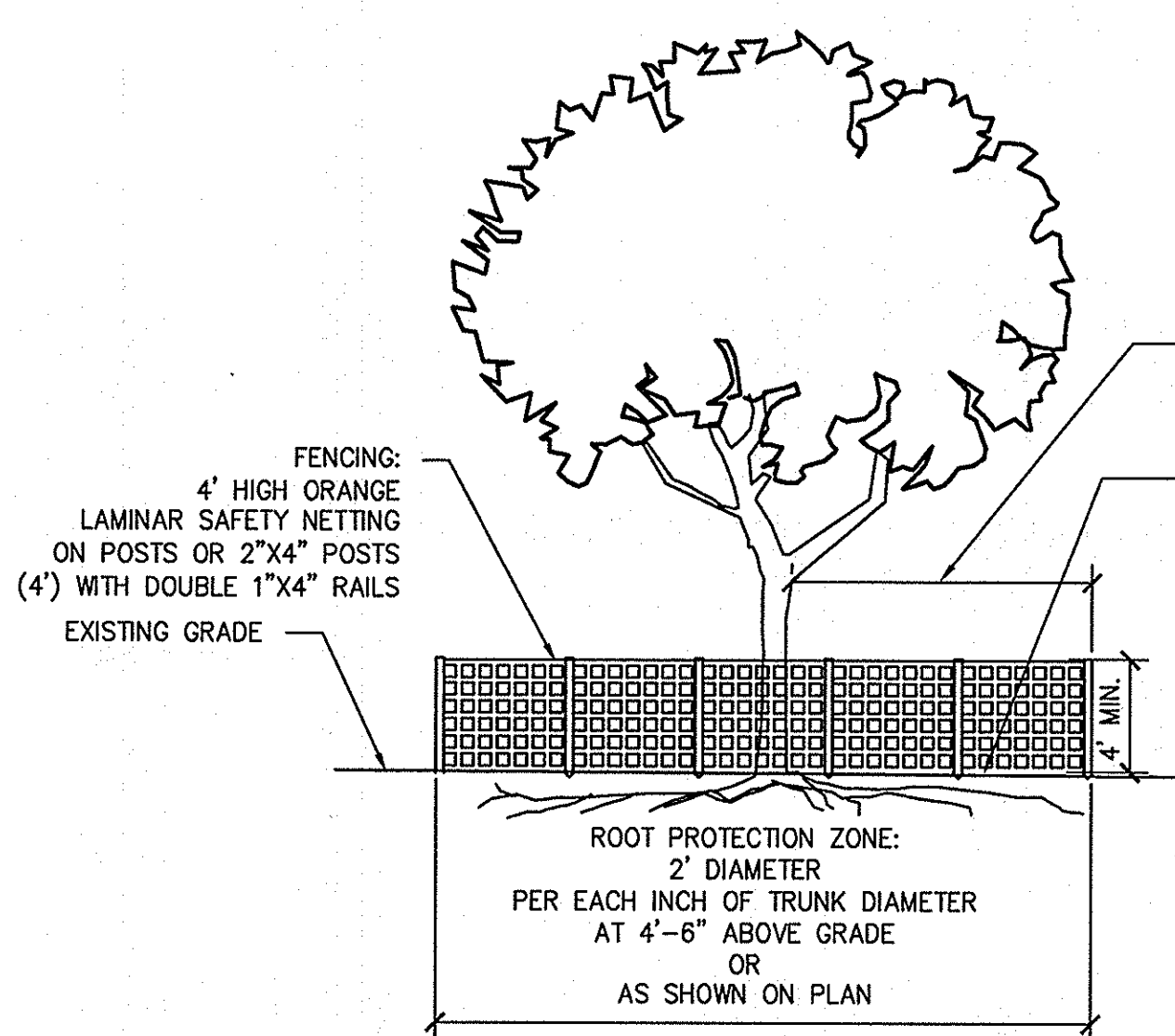


1. PLACE AN ADEQUATE NUMBER OF SEDIMENT TUBES AROUND AN INLET TO PROVIDE COMPLETE PROTECTION. LEAVE APPROXIMATELY 3"-6" BETWEEN THE SEDIMENT TUBE AND THE INLET OR GRATE.
2. ENDS SHOULD OVERLAP 12-18 INCHES. SIDES SHOULD BE PRESSED TIGHTLY TO CURB.
3. USE SMALL ROCKS TO HOLD TUBES IN PLACE IN PAVED AREAS. USE WOOD STAKES TO SECURE TUBES IN PLACE IN UNPAVED AREAS.
4. INSPECT INLET PROTECTION DEVICE BEFORE AND AFTER RAIN EVENTS, AND WEEKLY THROUGHOUT THE RAINY SEASON. DURING EXTENDED RAIN EVENTS, INSPECT AT LEAST ONCE EVERY 24 HOURS.
5. REMOVE AND PROPERLY DISPOSE OF ACCUMULATED SILT AND DEBRIS TO ALLOW FOR PROPER FUNCTION OF DEVICE.
6. COMPLY WITH ALL MANUFACTURERS SPECIFICATIONS AND INSTRUCTIONS.

DETAIL
SCALE: NONE



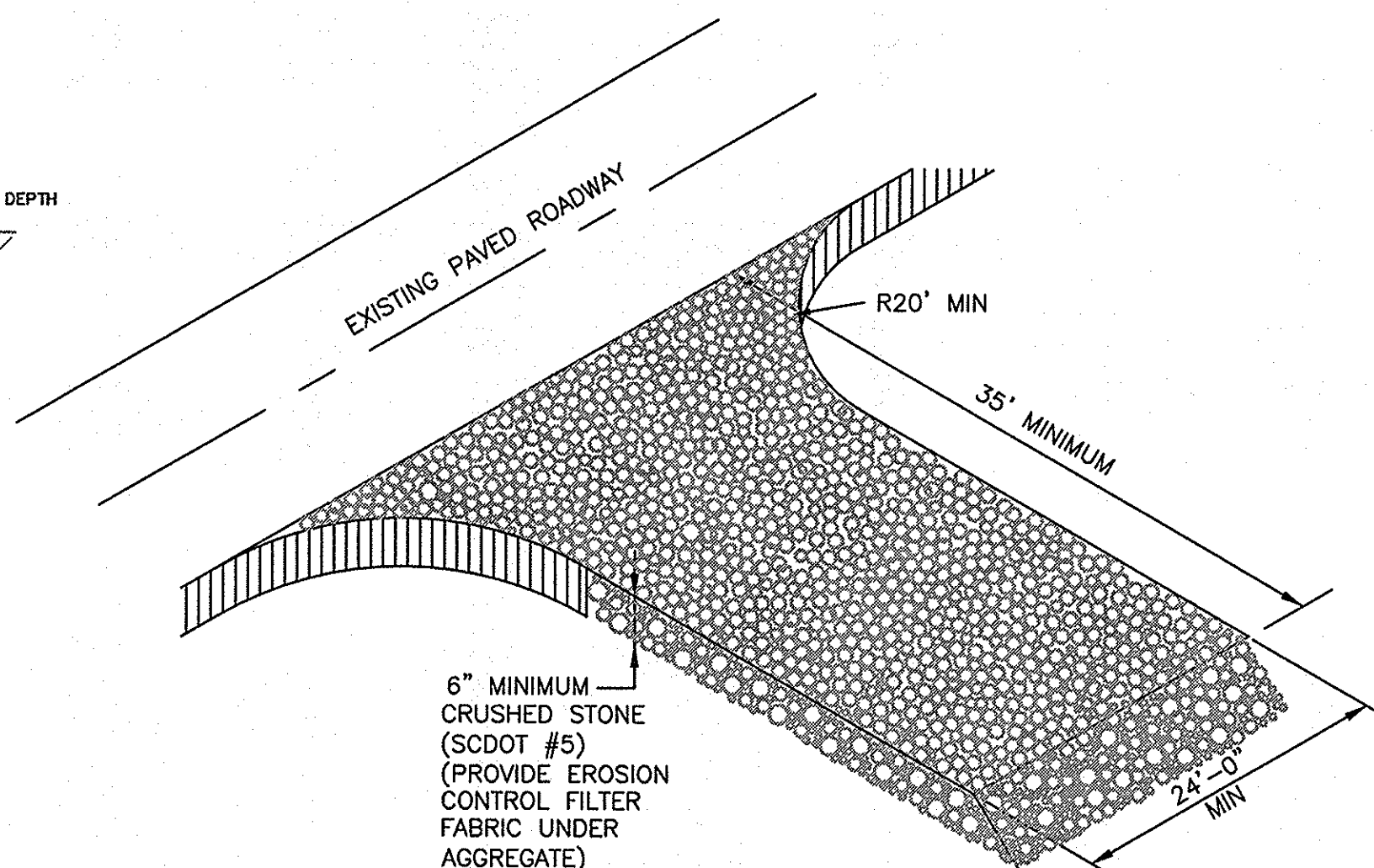
DETAIL 3
SCALE: NONE TYP



DETAIL SCALE: NONE 5 TYP

DETAIL
SCALE: NONE

2
TYP



DETAIL SCALE: NONE

ROOT PROTECTION ZONE:
1' RADIUS FOR EACH INCH OF
TRUNK DIAMETER AT 4'-6"
ABOVE GRADE (TYP.)

3" PINE BARK MULCH AT ROOT ZONE

1. PROVIDE PROTECTION FENCE FOR ALL TREES TO REMAIN. FENCES SHALL BE IN PLACE PRIOR TO BEGINNING CONSTRUCTION.
2. NO GRADING, CLEARING, EQUIPMENT OR MATERIALS STORAGE, PARKING OR OTHER ACTIVITIES THAT COULD DISTURB OR COMPACT THE SOIL SHALL BE ALLOWED WITHIN FENCED PROTECTION AREA.

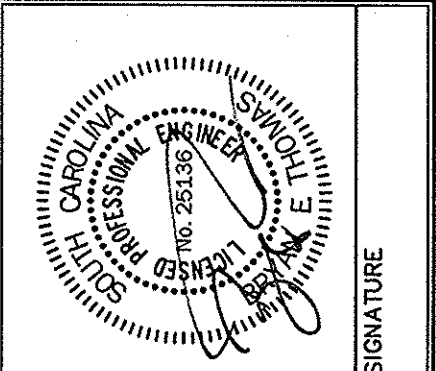
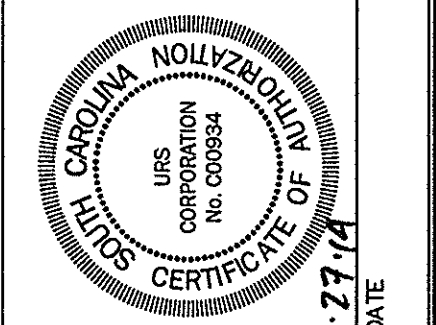
USC PROJECT NO.
CP00395003

BID DOCUMENTS

**THESE DOCUMENTS ARE FOR THE
PURPOSE OF SOLICITATION OF BIDS AND
ARE NOT FOR USE FOR CONSTRUCTION**

REVISIONS			
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APPROVALS
PROJECT ENG: MDJ
DESIGNED BY: MDJ
DRAWN BY: EHM
CHECKED BY: BET
APPROVED: BET



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SITE DETAILS
2 OF 3

DATE: MARCH 27, 2014 SCALE: AS SHOWN

PARTANBURG COUNTY SOUTH CAROLINA

USC UPDATE WORKING IMPROVEMENTS

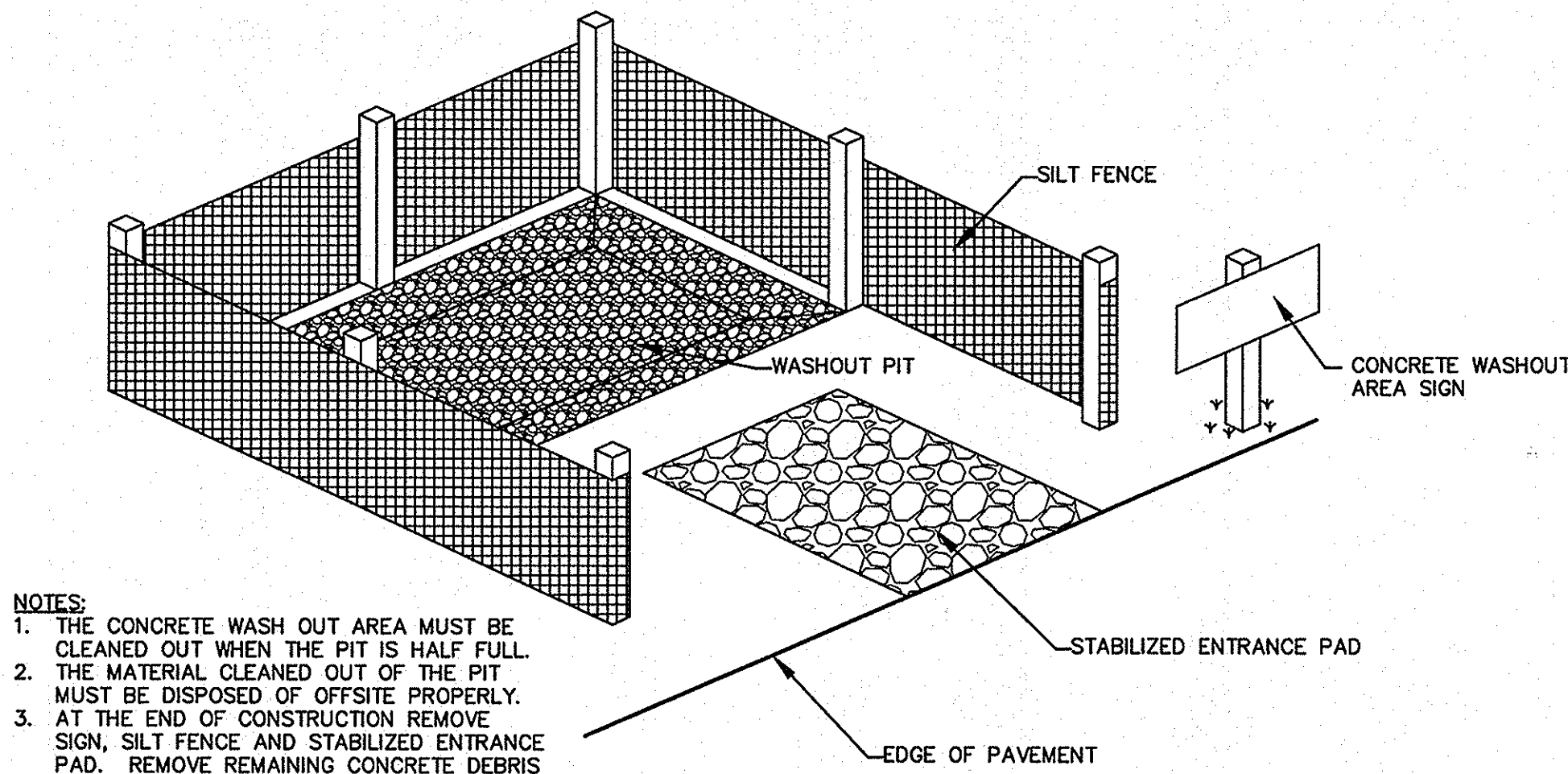
PREPARED FOR
THE UNIVERSITY OF
SOUTH CAROLINA

.DWG NAME	SHEET
N.B. NO.	<u>12</u>
REF.	OF
PROJECT NO. 46423271	<u>13</u>
FILE NO. 36,266-B90	

FILE NO. 36.266-B90

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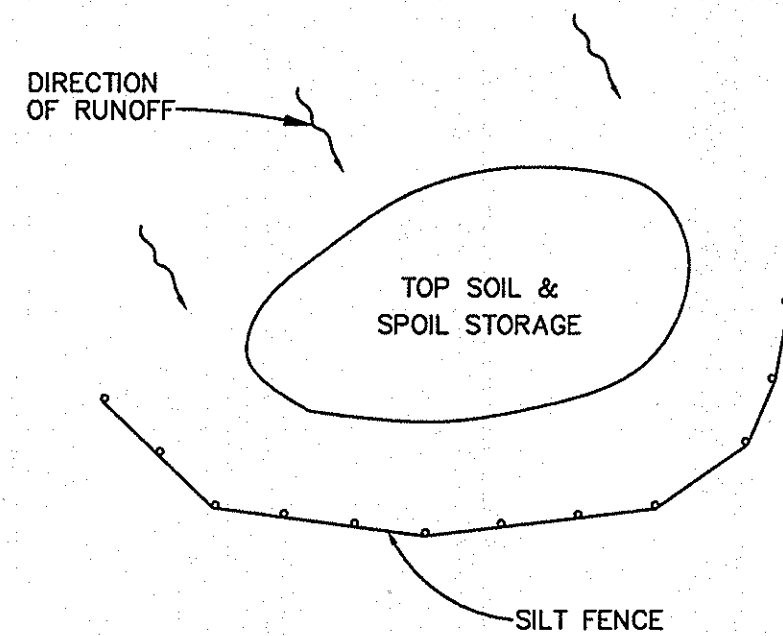
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- NOTES:
1. THE CONCRETE WASH OUT AREA MUST BE CLEANED OUT WHEN THE PIT IS HALF FULL.
 2. THE MATERIAL CLEANED OUT OF THE PIT MUST BE DISPOSED OF OFFSITE PROPERLY.
 3. AT THE END OF CONSTRUCTION REMOVE SIGN, SILT FENCE AND STABILIZED ENTRANCE PAD. REMOVE REMAINING CONCRETE DEBRIS FROM PIT, FILL PIT, COMPACT SOIL AND STABILIZE AREA.

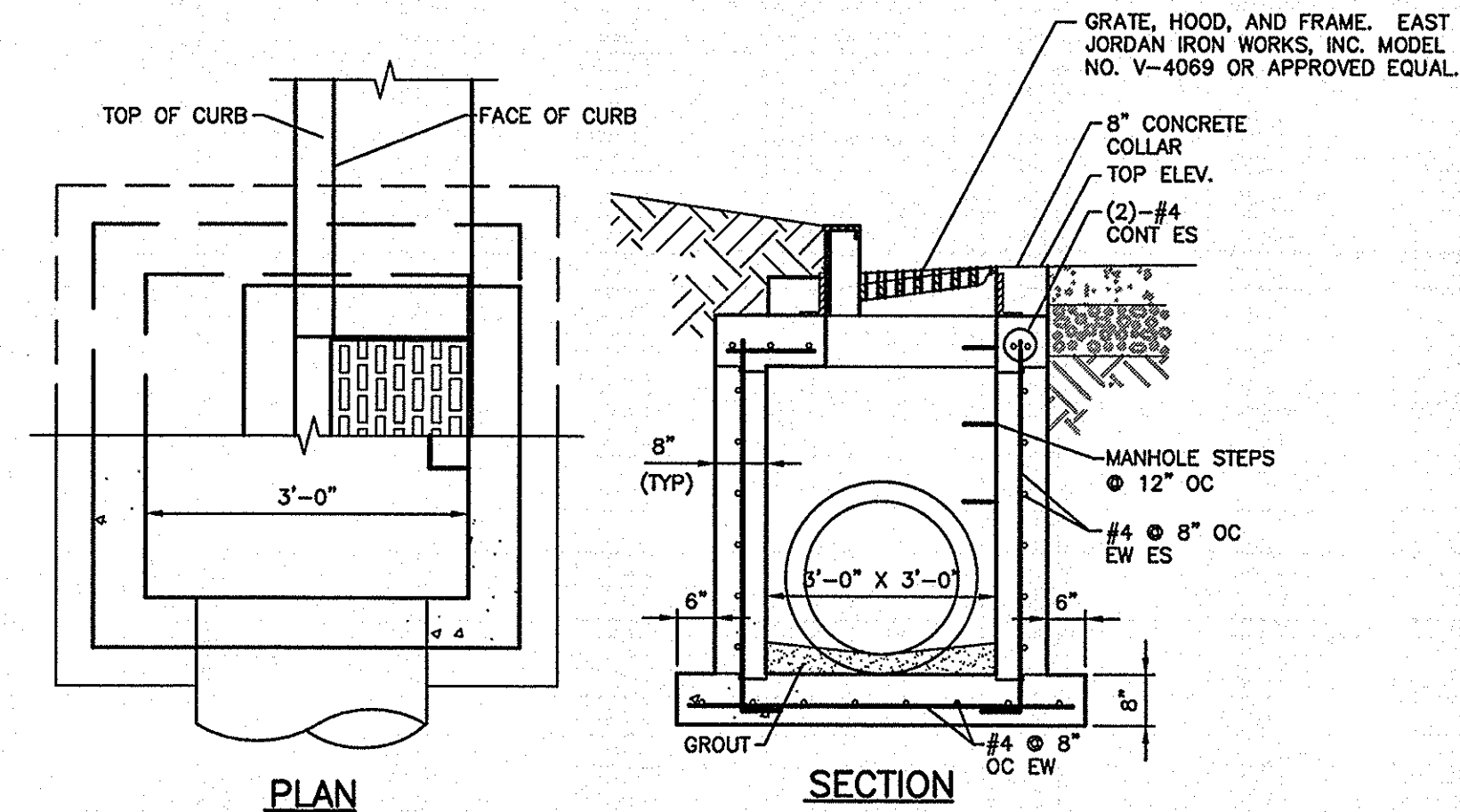
CONCRETE WASHOUT AREA

DETAIL 1
SCALE: NONE TYP



TOP SOIL & SPOIL STORAGE

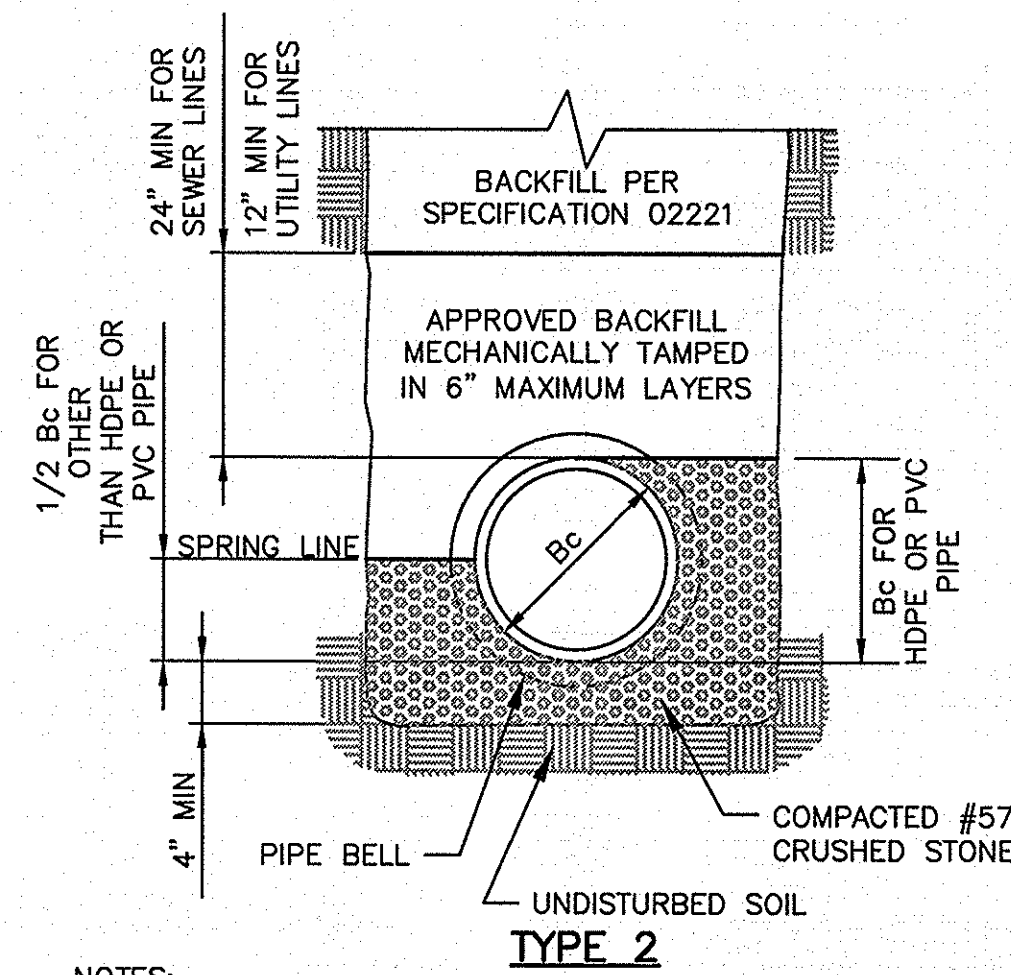
DETAIL 3
SCALE: NONE TYP



CATCH BASIN (CB)

DETAIL 2
SCALE: NONE TYP

NOTE:
FOR PIPES OVER 24" I.D.
MAKE LENGTH & WIDTH
OF DI = O.D. OF PIPE +
6" EACH SIDE.



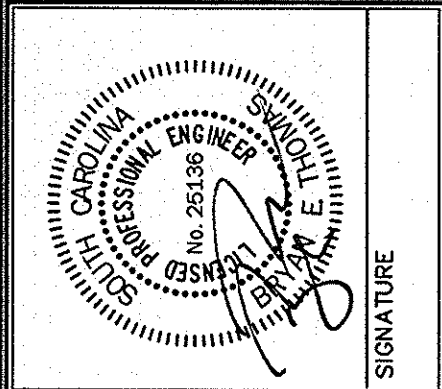
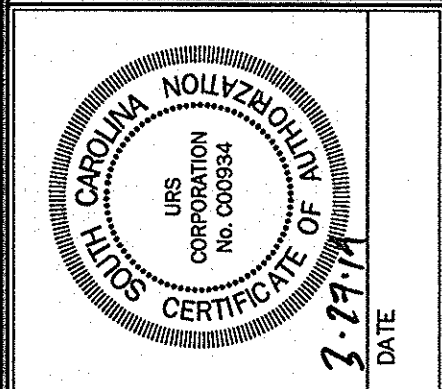
- NOTES:
1. 1/4 Bc HAND SHAPED BOTTOM - SHAPE BELL HOLES FOR USE IN DRY EARTH TRENCHES ONLY. APPLICABLE TO BOTH EARTH AND ROCK TRENCHES.

CLASS "B" BEDDING

DETAIL 4
SCALE: NONE TYP

REVISIONS			
NO.	DESCRIPTION	DATE	BY

APPROVALS					
PROJECT ENG:	DESIGNED BY:	DRAWN BY:	CHECKED BY:	APPROVED:	BET
MDJ	MDJ	MDJ	MDJ	BET	BET



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SHEET TITLE
SITE DETAILS
3 OF 3
DATE: MARCH 27, 2014 SCALE: AS SHOWN

PROJECT
**USC UPSTATE
PARKING IMPROVEMENTS**
PREPARED FOR
**THE UNIVERSITY OF
SOUTH CAROLINA**
SPARTANBURG COUNTY SOUTH CAROLINA

USC PROJECT NO.
CP00395003

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