

NOTE:
IT IS CONTRACTORS RESPONSIBILITY TO VERIFY THAT
THEY AND THEIR SUBCONTRACTORS HAVE THE
CORRECT/MOST UP-TO-DATE PLANS AVAILABLE.



UNIVERSITY OF
SOUTH CAROLINA

SITE CONSTRUCTION DRAWINGS FOR

UNIVERSITY OF SOUTH CAROLINA

NORTH CAMPUS BLVD. REPAIR/IMPROVEMENTS

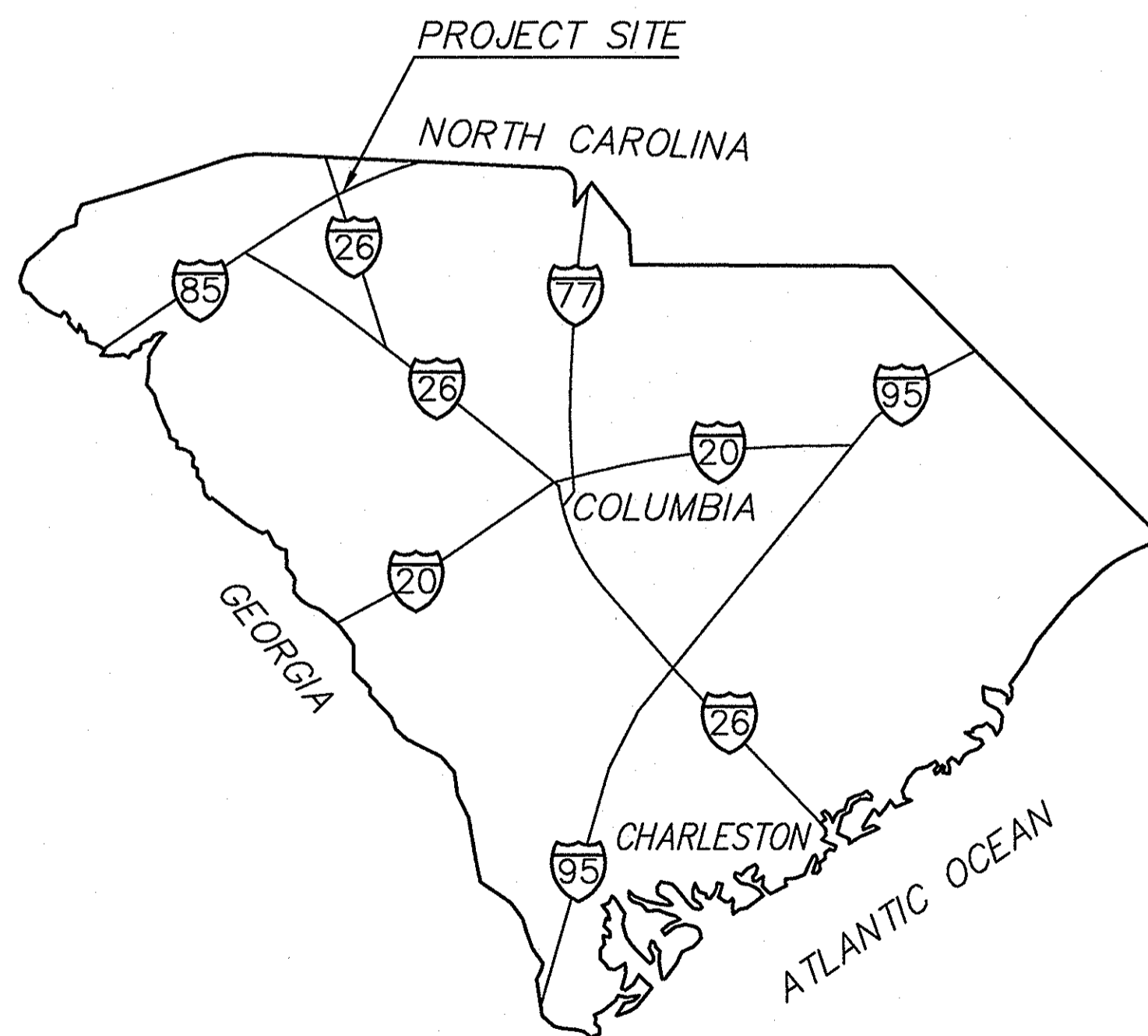
H34-I360

PREPARED FOR:

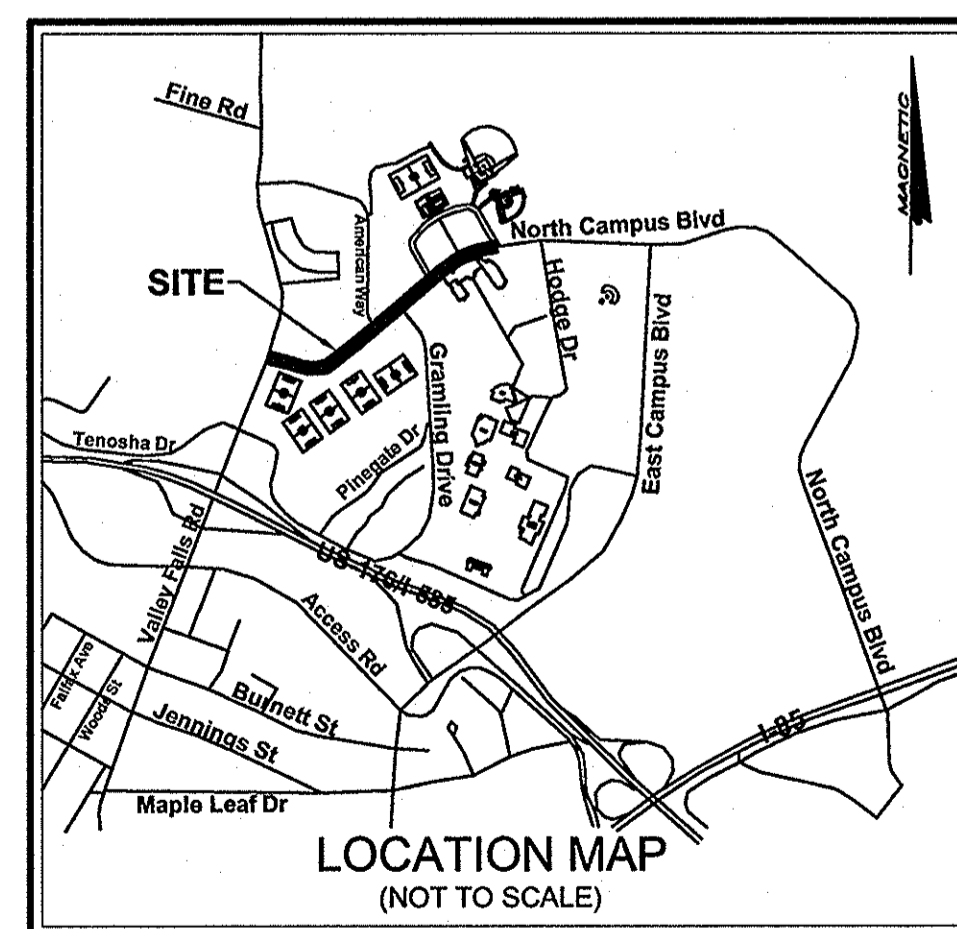
UNIVERSITY OF SOUTH CAROLINA
FACILITIES DESIGN AND CONSTRUCTION
743 GREENE STREET
COLUMBIA, SOUTH CAROLINA 29208
803.777.3126

SHEET INDEX:

C0	COVER AND INDEX SHEET
C1	REPAVING/REHABILITATION PLAN
C2	REPAVING/REHABILITATION PLAN
C3	REPAVING/REHABILITATION PLAN
C4	REPAVING/REHABILITATION PLAN
C5	DETAIL SHEET



STATE OF SOUTH CAROLINA MAP
NOT TO SCALE

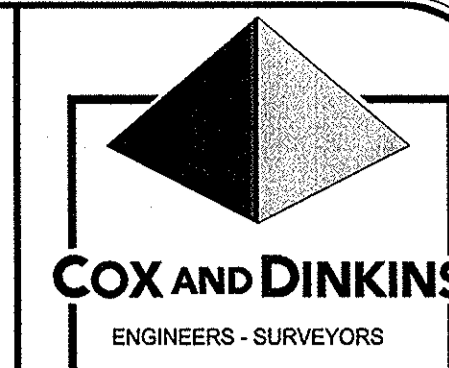


NOTE TO CONTRACTOR:
CONTRACTOR SHALL NOTIFY PUPS, METROPOLITAN
WATER DISTRICT (864-503-0822) AND USC UPSTATE
FACILITIES MANAGEMENT (864-503-5500) A MINIMUM
THREE(3) DAYS PRIOR TO DIGGING.

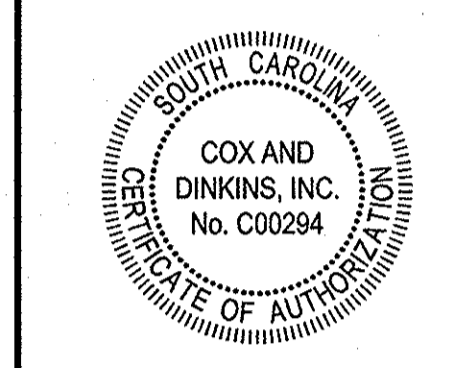
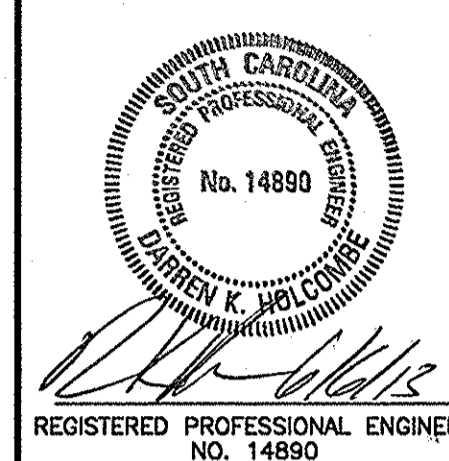
The Palmetto Utility Protection Service, Inc.
100 South River Road, Suite 100 Columbia, South Carolina 29201 (803) 939-1117

3 DAYS BEFORE DIGGING IN SOUTH CAROLINA
CALL 811
CONTRACTOR SHALL CONTACT THE UNDERGROUND LOCATORS EVERY
10 DAYS FOR AN UPDATE TO UTILITY LOCATIONS.

NOTE:
INFORMATION REGARDING THE REPUTED PRESENCE, SIZE, CHARACTER AND LOCATION OF
EXISTING UNDERGROUND UTILITIES AND STRUCTURES WAS OBTAINED FROM LOCAL UTILITY
COMPANIES AND AVAILABLE BY THE OWNER AND IS SHOWN HEREON. THERE
IS NO CERTAINTY OF THE ACCURACY OF THIS INFORMATION AND IT SHALL BE CONSIDERED IN THAT
LIGHT BY THOSE USING THIS DRAWING. HOWEVER, COX AND DINKINS, INC. HAS NO NOTICE OR
KNOWLEDGE OF ANY FACTS THAT WOULD LEAD US TO CONCLUDE THAT THE INFORMATION IS NOT
ACCURATE. BUT UTILITIES AND STRUCTURES NOT SHOWN MAY BE ENCOUNTERED. THE OWNER,
HIS EMPLOYEES, HIS CONSULTANTS, HIS ASSIGNS AND HIS CONTRACTORS SHALL HEREBY
DISTINCTLY UNDERSTAND THAT COX AND DINKINS, INC. IS NOT RESPONSIBLE FOR THE
CORRECTNESS OR SUFFICIENCY OF THE UNDERGROUND INFORMATION. INFORMATION WITH
RESPECT TO ABOVE GROUND MONUMENTS OF SUCH UTILITIES IS BASED UPON ACTUAL FIELD
MEASUREMENTS AND OBSERVATIONS, AND IS SHOWN HEREON.



COX AND DINKINS, INC.
ENGINEERS - SURVEYORS
724 BELTLINE BLVD.
COLUMBIA, SC 29205
803-254-0518
Fax: 803-765-0993
Email: cdinc@coxanddinkins.com



CERTIFICATE OF AUTHORIZATION SEAL

REVISIONS	DATE	DESCRIPTION
No. 1	6-6-13	Addendum no. 1

DEVELOPER:
UNIVERSITY OF SOUTH CAROLINA
Facilities Design and Construction
743 Green Street
Columbia, SC 29208
803.777.5811
PROJECT CONTACT:
Fred Scott
864.503.5538

BID SET
UNIVERSITY OF SOUTH CAROLINA UPSTATE
NORTH CAMPUS BOULEVARD REPAIR / IMPROVEMENTS
STATE PROJECT H34-I360
LOCATED IN SPARTANBURG
SPARTANBURG COUNTY, SOUTH CAROLINA
COVER

TMS	6-08-00-010.01	SF NO.	N/A
BOOK	Y-58-24	SHEET NO.	C0 of 6
PROJECT NO.	1703	DATE	5/10/2013

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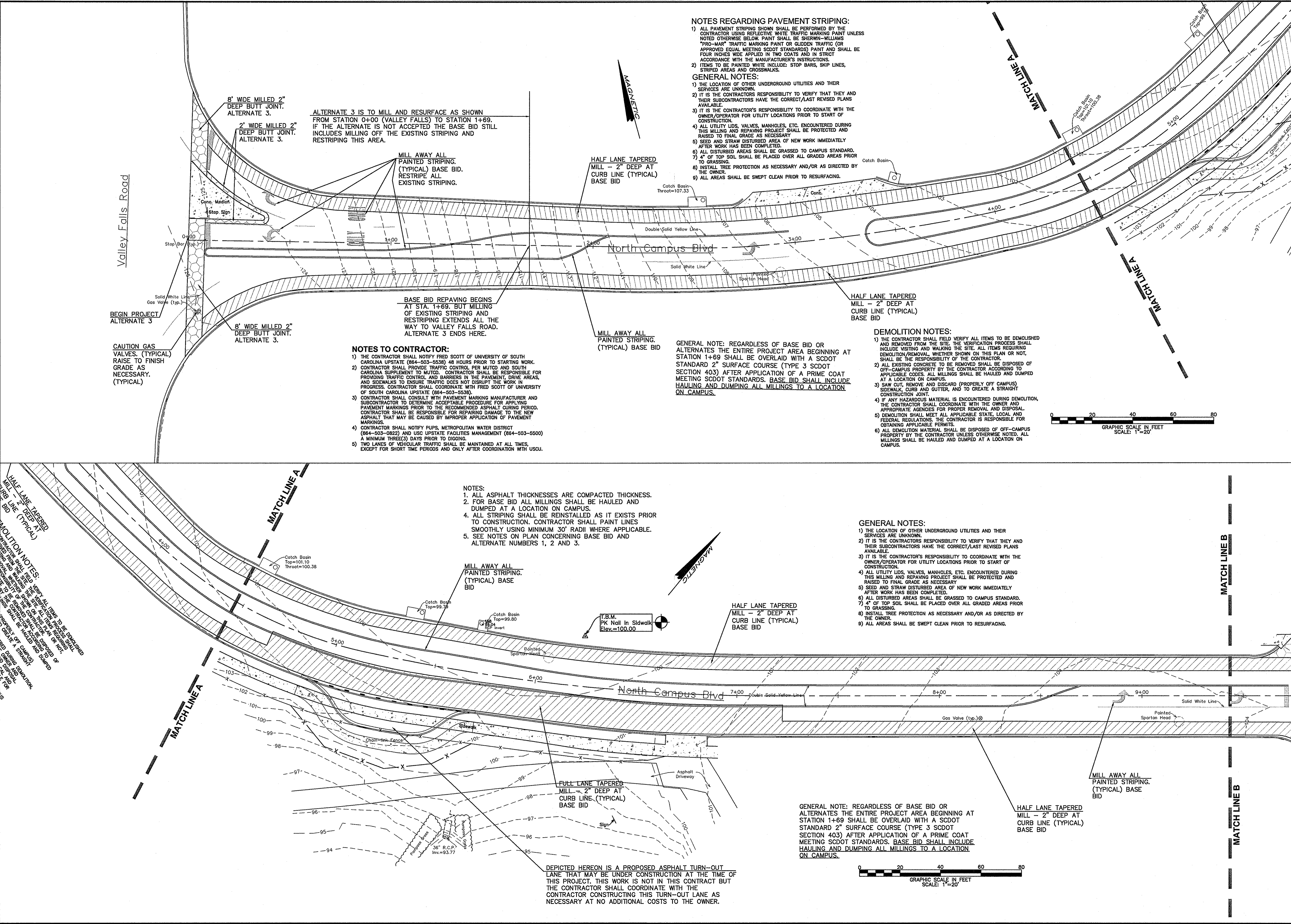
REVISIONS	DESCRIPTION	DATE
No. 1	Addendum no. 1	6-6-13

DEVELOPER:
UNIVERSITY OF SOUTH CAROLINA
Facilities Design and Construction
743 Green Street
Columbia, SC 29208
803.777.5811
PROJECT CONTACT:
Fred Scott
864.503.5538

BID SET
UNIVERSITY OF SOUTH CAROLINA UPSTATE
NORTH CAMPUS BOULEVARD REPAIR / IMPROVEMENTS
STATE PROJECT H34-1360
LOCATED IN SPARTANBURG
SPARTANBURG COUNTY, SOUTH CAROLINA
REPAVING/REHABILITATION PLAN

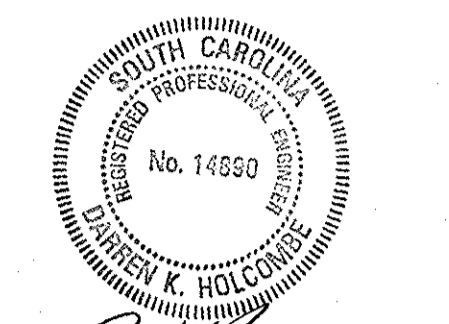
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BOOK	Y-58-24	SHEET NO.	
PROJECT NO.	1703	C1 of 6	
DATE	5/10/2013		

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COX AND DINKINS, INC.
724 BELTLINE BLVD.
COLUMBIA, SC 29205
803-254-0518
Fax: 803-765-0993
Email: cdinc@coxanddinkins.com



REGISTERED PROFESSIONAL ENGINEER
No. 14880



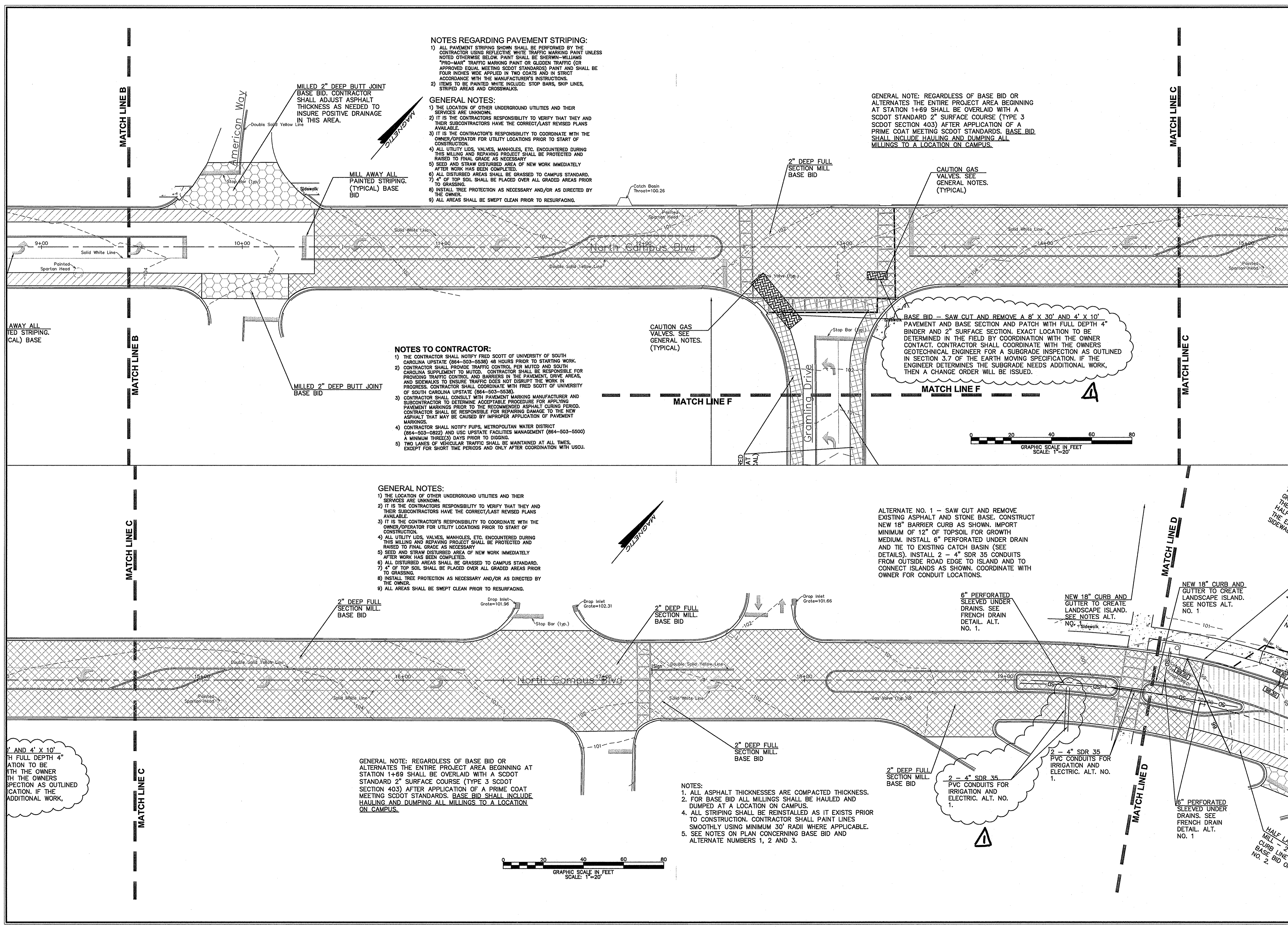
CERTIFICATE OF AUTHORIZATION SEAL

REVISIONS	DESCRIPTION	DATE
1	Addendum No. 1	6-8-13

DEVELOPER:
UNIVERSITY OF SOUTH CAROLINA
Facilities Design and Construction
743 Green Street
Columbia, SC 29208
803.777.5811
PROJECT CONTACT:
Fred Scott
864.503.5538

BID SET
UNIVERSITY OF SOUTH CAROLINA UPSTATE
NORTH CAMPUS BOULEVARD REPAIR / IMPROVEMENTS
STATE PROJECT H34-I360
LOCATED IN SPARTANBURG
SPARTANBURG COUNTY, SOUTH CAROLINA
REPAVING/REHABILITATION PLAN

TMS 6-08-00-010.01	BOOK Y-58-24	SF NO. N/A
PROJECT NO. 1703	SHEET NO. C2 of 6	
DATE 5/10/2013		



NOTES REGARDING PAVEMENT STRIPING:

- 1) ALL PAVEMENT STRIPING SHOWN SHALL BE PERFORMED BY THE CONTRACTOR USING REFLECTIVE WHITE TRAFFIC MARKING PAINT UNLESS NOTED OTHERWISE BELOW. PAINT SHALL BE SHERWIN-WILLIAMS "PRO-MARK" TRAFFIC MARKING PAINT OR GILDEN TRAFFIC (OR APPROVED EQUAL MEETING SCODOT STANDARDS) PAINT AND SHALL BE FOUR INCHES WIDE APPLIED IN TWO COATS AND IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- 2) ITEMS TO BE PAINTED WHITE INCLUDE: STOP BARS, SKIP LINES, STRIPED AREAS AND CROSSWALKS.

GENERAL NOTES:

- 1) THE LOCATION OF OTHER UNDERGROUND UTILITIES AND THEIR SERVICES ARE UNKNOWN.
- 2) IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT THEY AND THEIR SUBCONTRACTORS HAVE THE CORRECT/LAST REVISED PLANS AVAILABLE.
- 3) IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE OWNER/OPERATOR FOR UTILITY LOCATIONS PRIOR TO START OF CONSTRUCTION.
- 4) ALL UTILITY LIDS, VALVES, MANHOLES, ETC. ENCOUNTERED DURING THIS MILLING AND REPAVING PROJECT SHALL BE PROTECTED AND RAISED TO FINAL GRADE AS NECESSARY.
- 5) SEED AND STRAW DISTURBED AREA OF NEW WORK IMMEDIATELY AFTER WORK HAS BEEN COMPLETED.
- 6) ALL DISTURBED AREAS SHALL BE GRASSED TO CAMPUS STANDARD.
- 7) 4" OF TOP SOIL SHALL BE PLACED OVER ALL GRADED AREAS PRIOR TO GRASSING.
- 8) INSTALL TREE PROTECTION AS NECESSARY AND/OR AS DIRECTED BY THE OWNER.
- 9) ALL AREAS SHALL BE SWEEP CLEAN PRIOR TO RESURFACING.

GENERAL NOTE: REGARDLESS OF BASE BID OR ALTERNATES THE ENTIRE PROJECT AREA BEGINNING AT STATION 1+69 SHALL BE OVERLAID WITH A SCODOT STANDARD 2" SURFACE COURSE (TYPE 3 SCODOT SECTION 403) AFTER APPLICATION OF A PRIME COAT MEETING SCODOT STANDARDS. BASE BID SHALL INCLUDE HAULING AND DUMPING ALL MILLINGS TO A LOCATION ON CAMPUS.

NOTES TO CONTRACTOR:

- 1) THE CONTRACTOR SHALL NOTIFY FRED SCOTT OF UNIVERSITY OF SOUTH CAROLINA UPSTATE (864-503-5538) 48 HOURS PRIOR TO STARTING WORK.
- 2) CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL PER MUTCD AND SOUTH CAROLINA SUPPLEMENT TO MUTCD. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TRAFFIC CONTROL AND BARRIERS IN THE PAVEMENT, DRIVE AREAS, AND SIDEWALKS TO ENSURE TRAFFIC DOES NOT DISRUPT THE WORK IN PROGRESS. CONTRACTOR SHALL COORDINATE WITH FRED SCOTT OF UNIVERSITY OF SOUTH CAROLINA UPSTATE (864-503-5538).
- 3) CONTRACTOR SHALL CONSULT WITH PAVEMENT MARKING MANUFACTURER AND SUBCONTRACTOR TO DETERMINE ACCEPTABLE PROCEDURE FOR APPLYING PAVEMENT MARKINGS PRIOR TO THE RECOMMENDED ASPHALT CURING PERIOD. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING DAMAGE TO THE NEW ASPHALT THAT MAY BE CAUSED BY IMPROPER APPLICATION OF PAVEMENT MARKINGS.
- 4) CONTRACTOR SHALL NOTIFY PUP, METROPOLITAN WATER DISTRICT (864-503-0822) AND USC UPSTATE FACILITIES MANAGEMENT (864-503-5500) A MINIMUM THREE(3) DAYS PRIOR TO DIGGING.
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ALTERNATE NO. 1 - SAW CUT AND REMOVE EXISTING ASPHALT AND STONE BASE. CONSTRUCT NEW 18" BARRIER CURB AS SHOWN. IMPORT MINIMUM OF 12" OF TOPSOIL FOR GROWTH MEDIUM. INSTALL 6" PERFORATED UNDER DRAIN AND TIE TO EXISTING CATCH BASIN (SEE DETAILS). INSTALL 2 - 4" SDR 35 CONDUITS FROM OUTSIDE ROAD EDGE TO ISLAND AND TO CONNECT ISLANDS AS SHOWN. COORDINATE WITH OWNER FOR CONDUIT LOCATIONS.

GENERAL NOTE: REGARDLESS OF BASE BID OR ALTERNATES THE ENTIRE PROJECT AREA BEGINNING AT STATION 1+69 SHALL BE OVERLAID WITH A SCODOT STANDARD 2" SURFACE COURSE (TYPE 3 SCODOT SECTION 403) AFTER APPLICATION OF A PRIME COAT MEETING SCODOT STANDARDS. BASE BID SHALL INCLUDE HAULING AND DUMPING ALL MILLINGS TO A LOCATION ON CAMPUS.

NOTES:

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3. ALL STRIPING SHALL BE REINSTALLED AS IT EXISTS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL PAINT LINES SMOOTHLY USING MINIMUM 30' RADI WHERE APPLICABLE.
5. SEE NOTES ON PLAN CONCERNING BASE BID AND ALTERNATE NUMBERS 1, 2 AND 3.

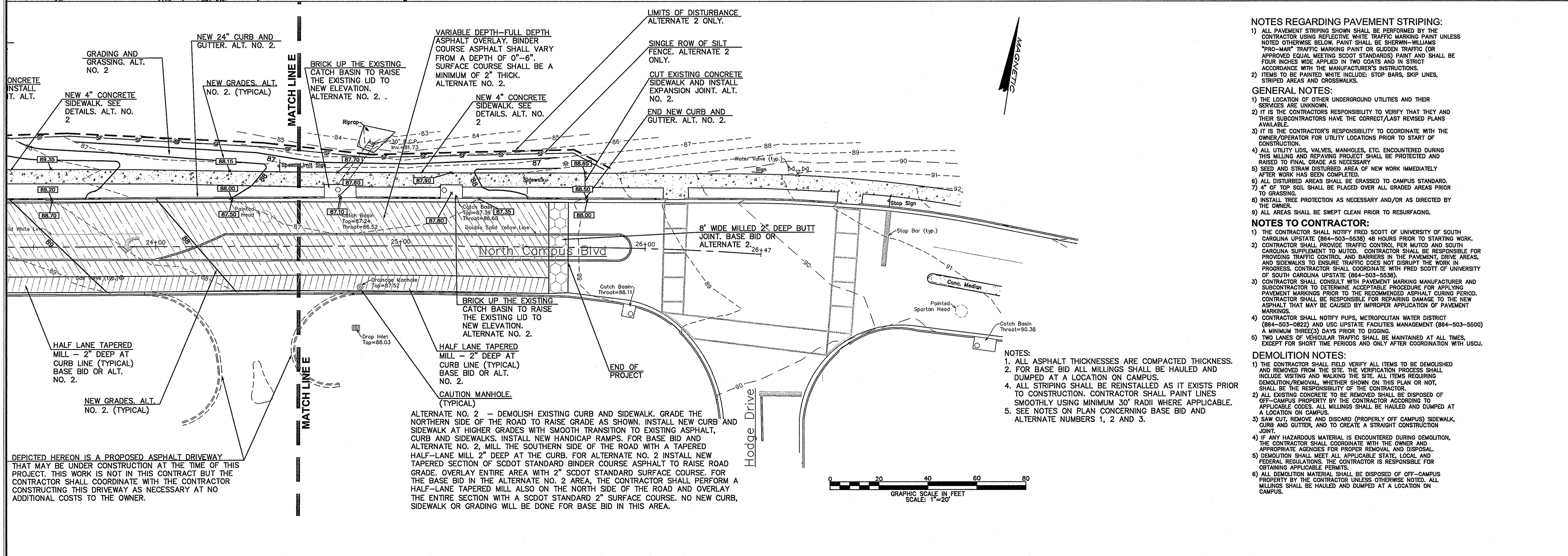
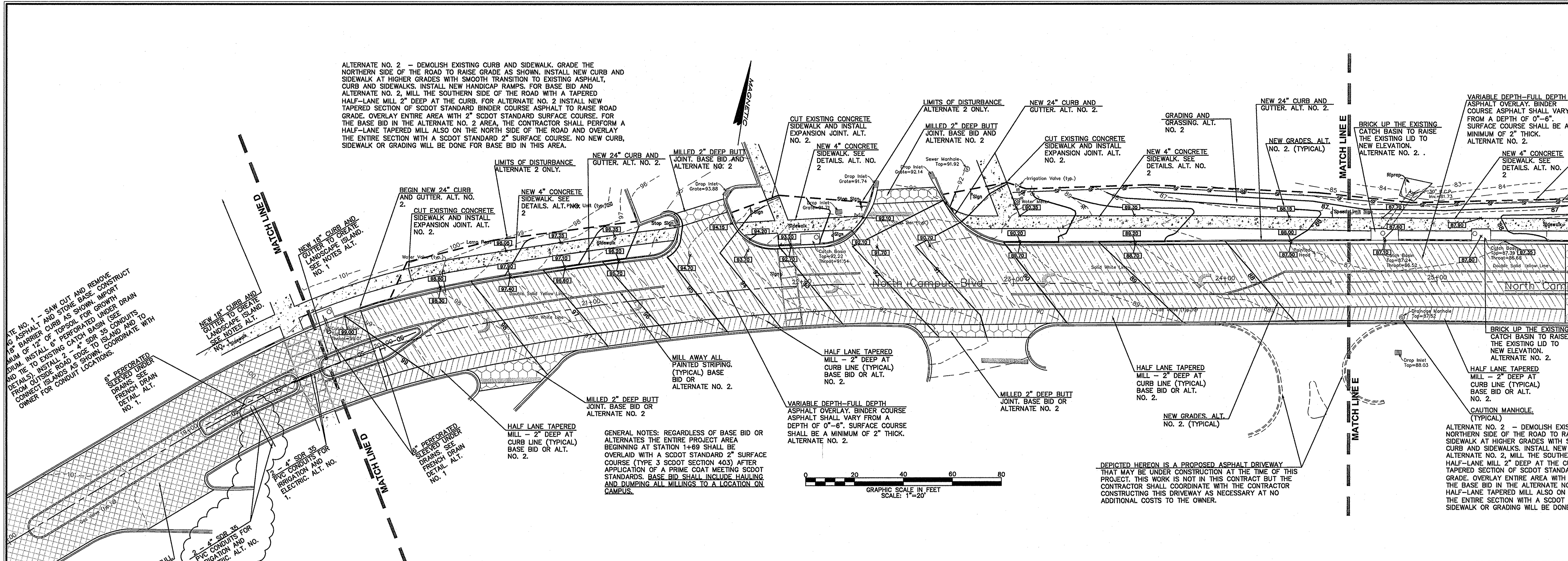
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REVISIONS	DATE	DESCRIPTION
1	6-6-13	As shown on 1

DEVELOPER:
UNIVERSITY OF SOUTH CAROLINA
Facilities Design and Construction
743 Green Street
Columbia, SC 29208
803.777.5811
PROJECT CONTACT:
Fred Scott
864.503.5538

BID SET
UNIVERSITY OF SOUTH CAROLINA UPSTATE
NORTH CAMPUS BOULEVARD REPAIR / IMPROVEMENTS
STATE PROJECT H34-1360
LOCATED IN SPARTANBURG
SPARTANBURG COUNTY, SOUTH CAROLINA
REPAVING/REHABILITATION PLAN

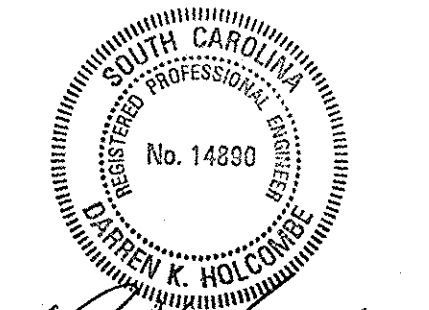
TMS	6-08-00-010.01	SF NO.	N/A
BOOK	Y-58-24	SHEET NO.	
PROJECT NO.	1703	C3 of 6	
DATE	5/10/2013		



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COX AND DINKINS, INC.
ENGINEERS - SURVEYORS
724 BELTLINE BLVD.
COLUMBIA, SC 29205
803-254-2518
Fax: 803-785-0993
Email: cdinc@coxanddinkins.com



REGISTERED PROFESSIONAL ENGINEER
No. 14890



CERTIFICATE OF AUTHORIZATION SEAL

REVISIONS	DESCRIPTION	DATE
1	Addendum no. 1	6-6-13

DEVELOPER:
UNIVERSITY OF SOUTH CAROLINA
Facilities Design and Construction
743 Green Street
Columbia, SC 29208
803.777.5811
PROJECT CONTACT:
Fred Scott
864.503.5538

BID SET
UNIVERSITY OF SOUTH CAROLINA UPSTATE
NORTH CAMPUS BOULEVARD REPAIR / IMPROVEMENTS
STATE PROJECT H34-I360
LOCATED IN SPARTANBURG
SPARTANBURG COUNTY, SOUTH CAROLINA
REPAVING/REHABILITATION PLAN

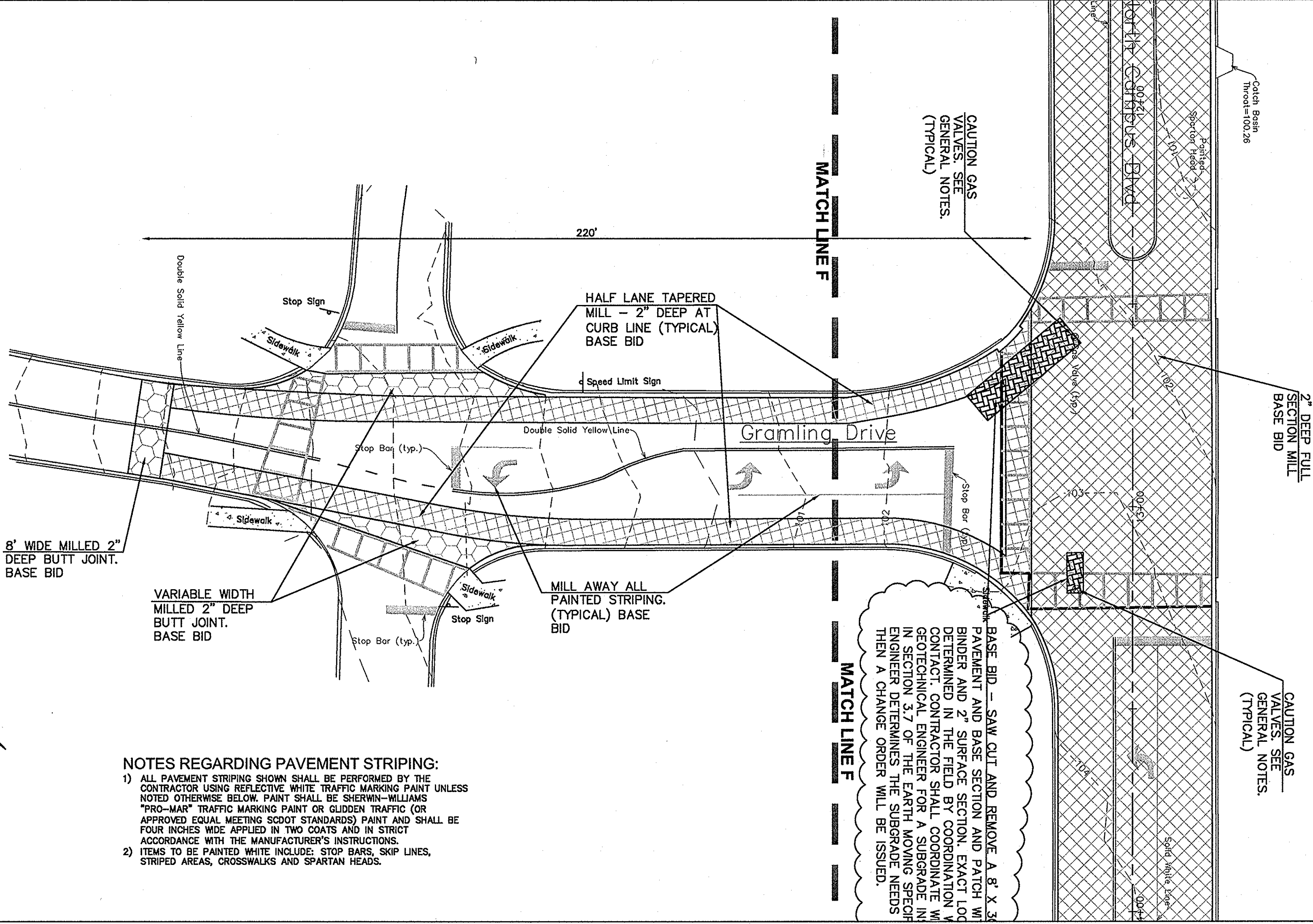
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BOOK	Y-58-24	PROJECT NO.	1703
DATE	5/10/2013	SHEET NO.	C4 of 6

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GENERAL NOTES:

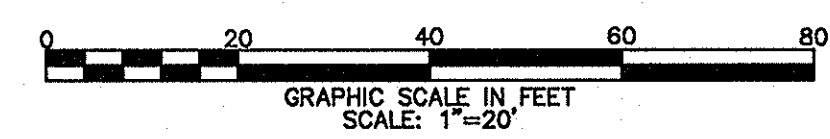
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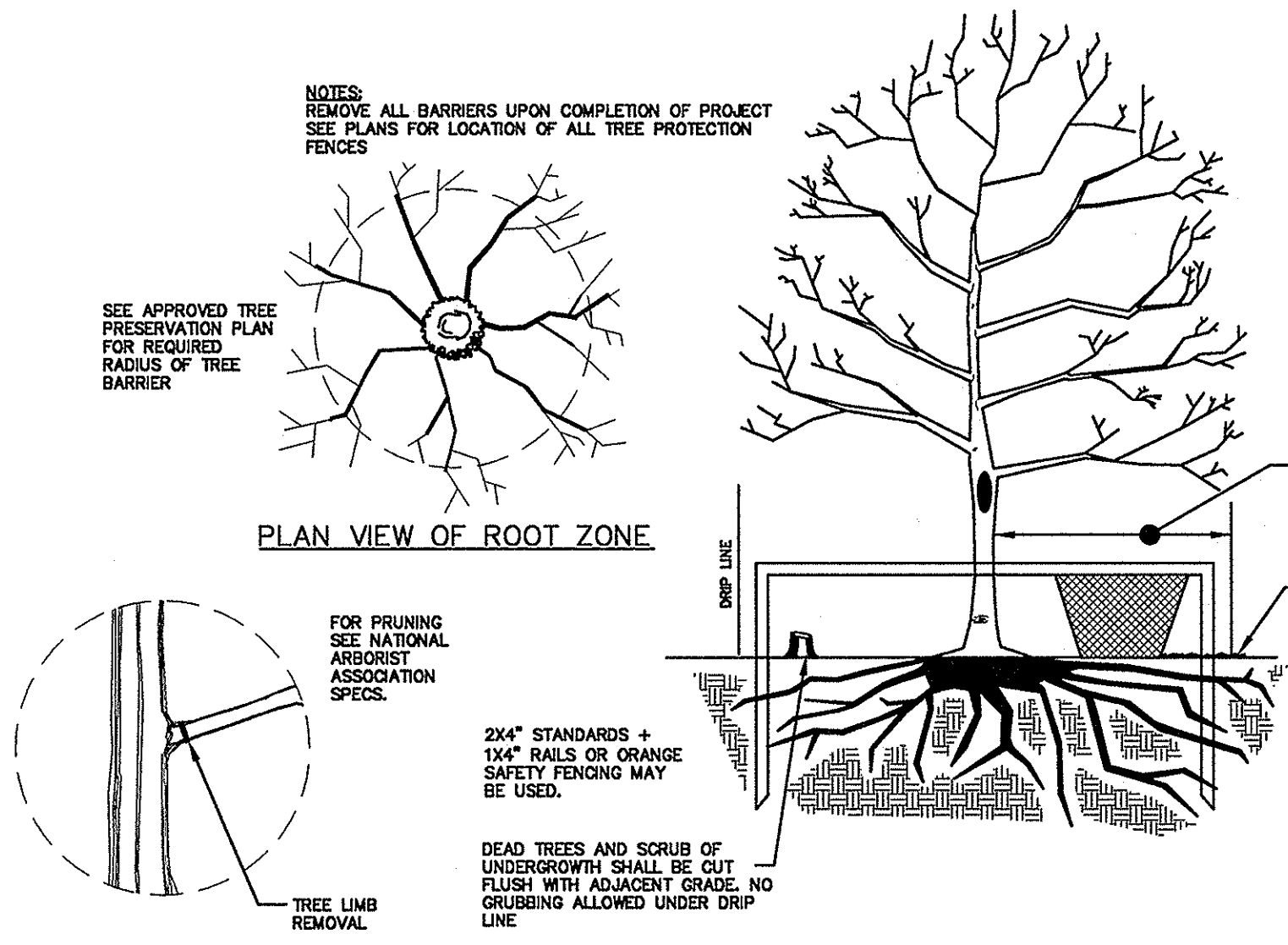
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- 2) ITEMS TO BE PAINTED WHITE INCLUDE: STOP BARS, SKIP LINES, STRIPED AREAS, CROSSWALKS AND SPARTAN HEADS.

GENERAL NOTE: REGARDLESS OF BASE BID OR ALTERNATES THE ENTIRE PROJECT AREA BEGINNING AT STATION 1+69 SHALL BE OVERLAIN WITH A SCOT'S STANDARD 2" SURFACE COURSE (TYPE 3 SCOT'S SECTION 403) AFTER APPLICATION OF A PRIME COAT MEETING SCOT'S STANDARDS. BASE BID MILLINGS TO A LOCATION ON CAMPUS.

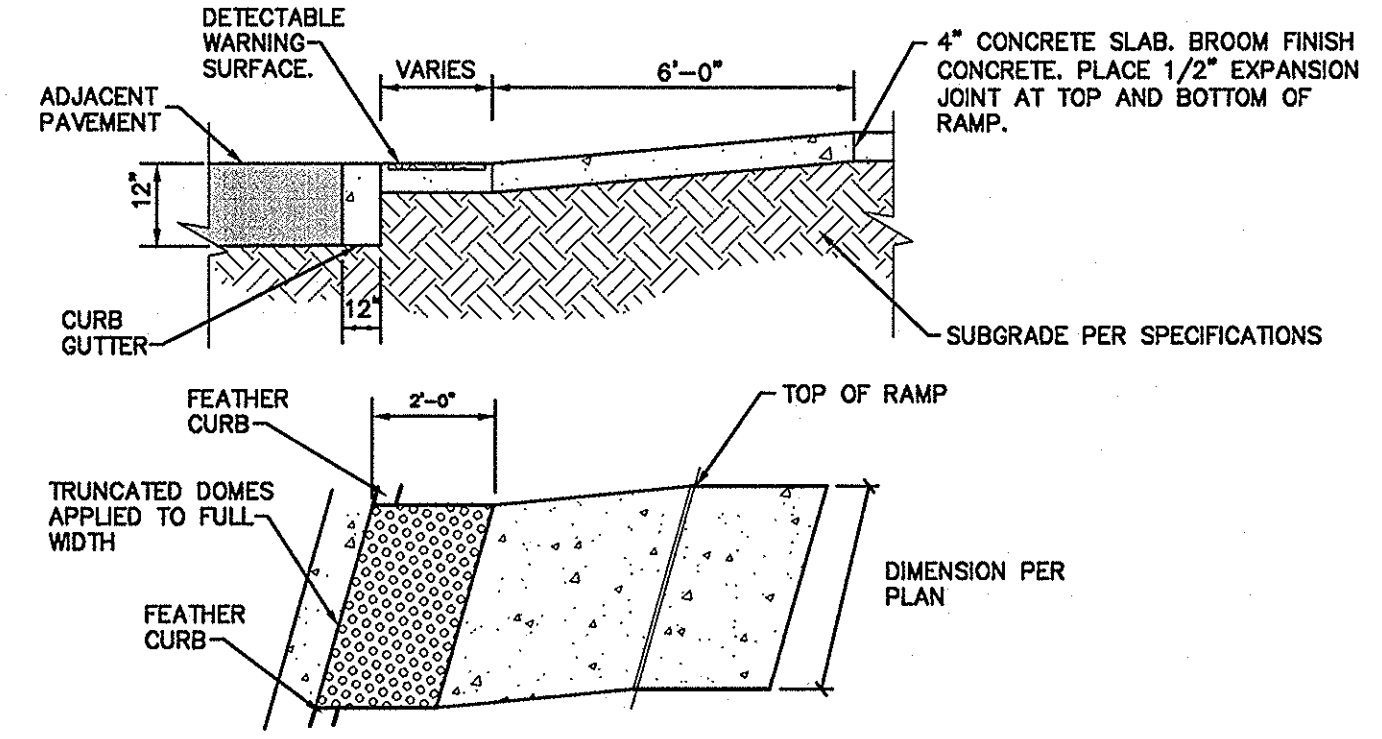
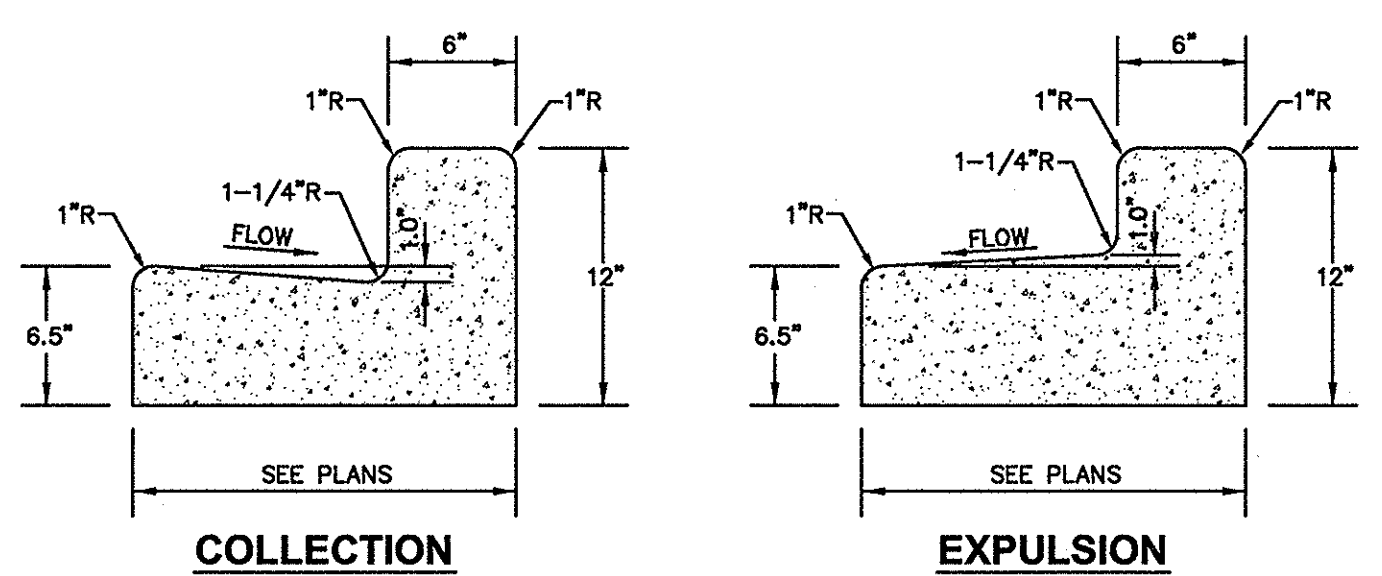


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TREE PROTECTION DETAIL

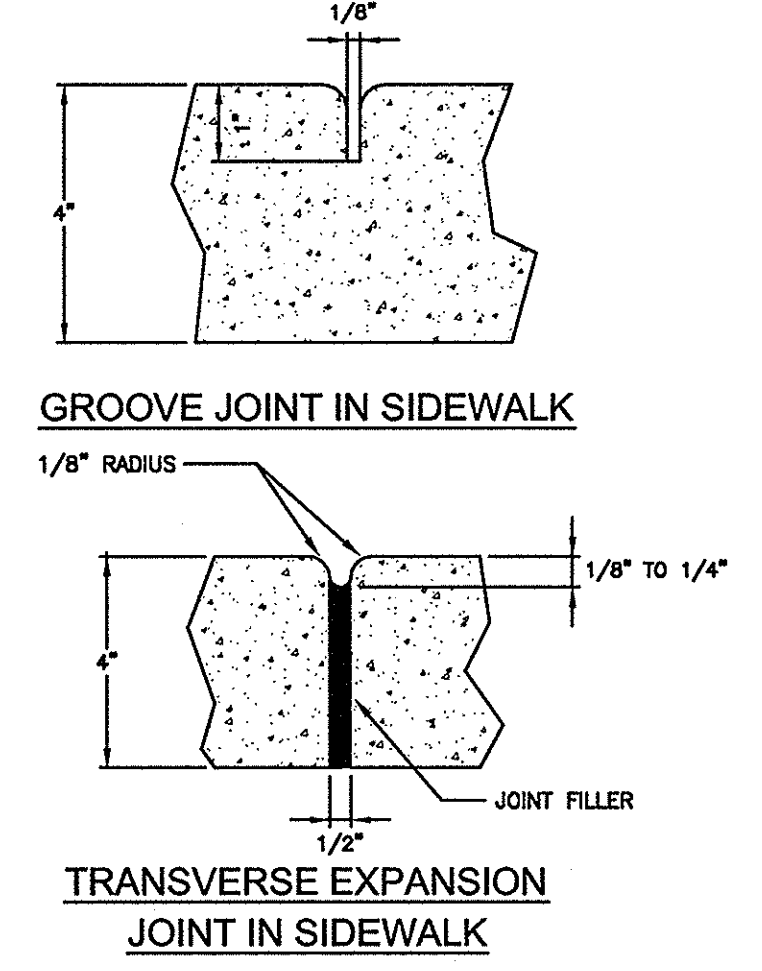
NTS



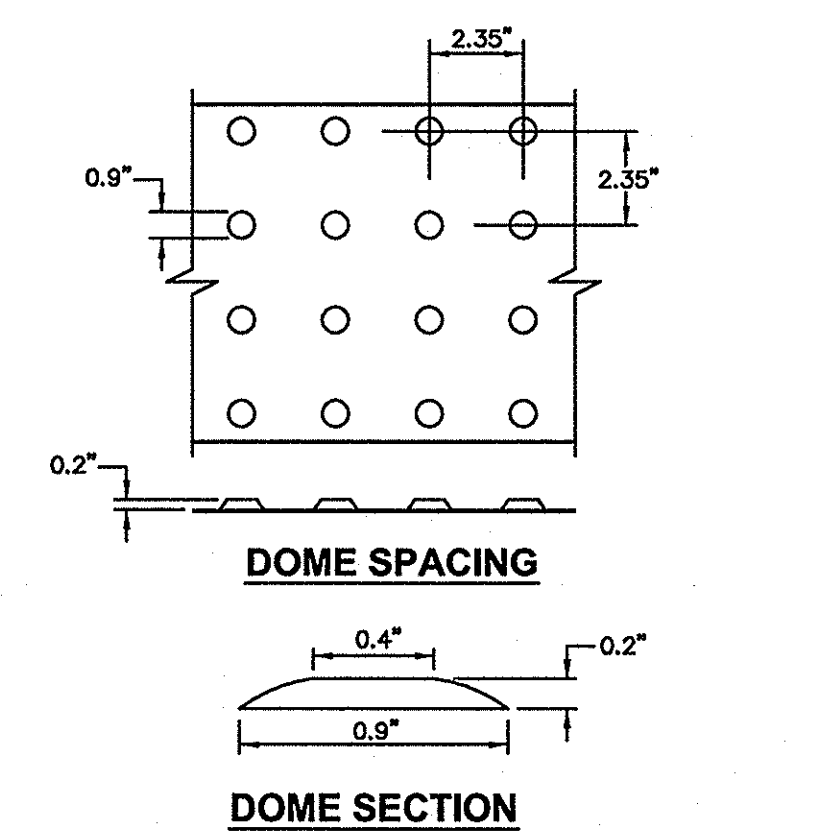
NOTES:
1. PER FEDERAL REGULATION 28 CFR PART 36, RAMP TO HAVE MAXIMUM RUNNING SLOPE OF 1:12 AND MAXIMUM CROSS SLOPE OF 1:50 IN AS-BUILT CONDITION. SEE GRADING PLAN FOR DESIGN SLOPE AND SPOT ELEVATIONS.
2. CONTRACTOR SHALL VERIFY AND USE CAMPUS STANDARD PRIOR TO CONSTRUCTION.

ACCESSIBLE CURB RAMP

NTS

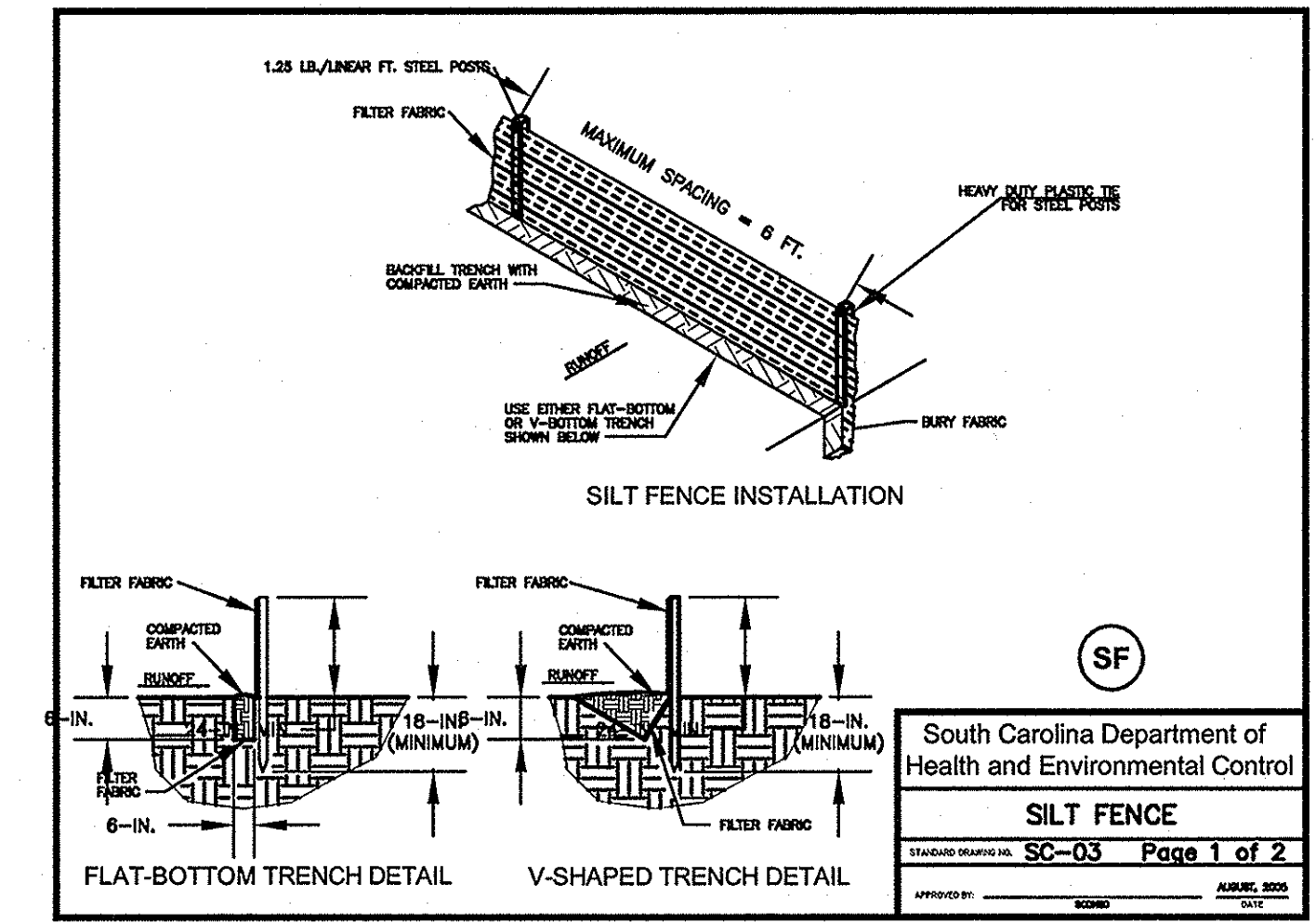
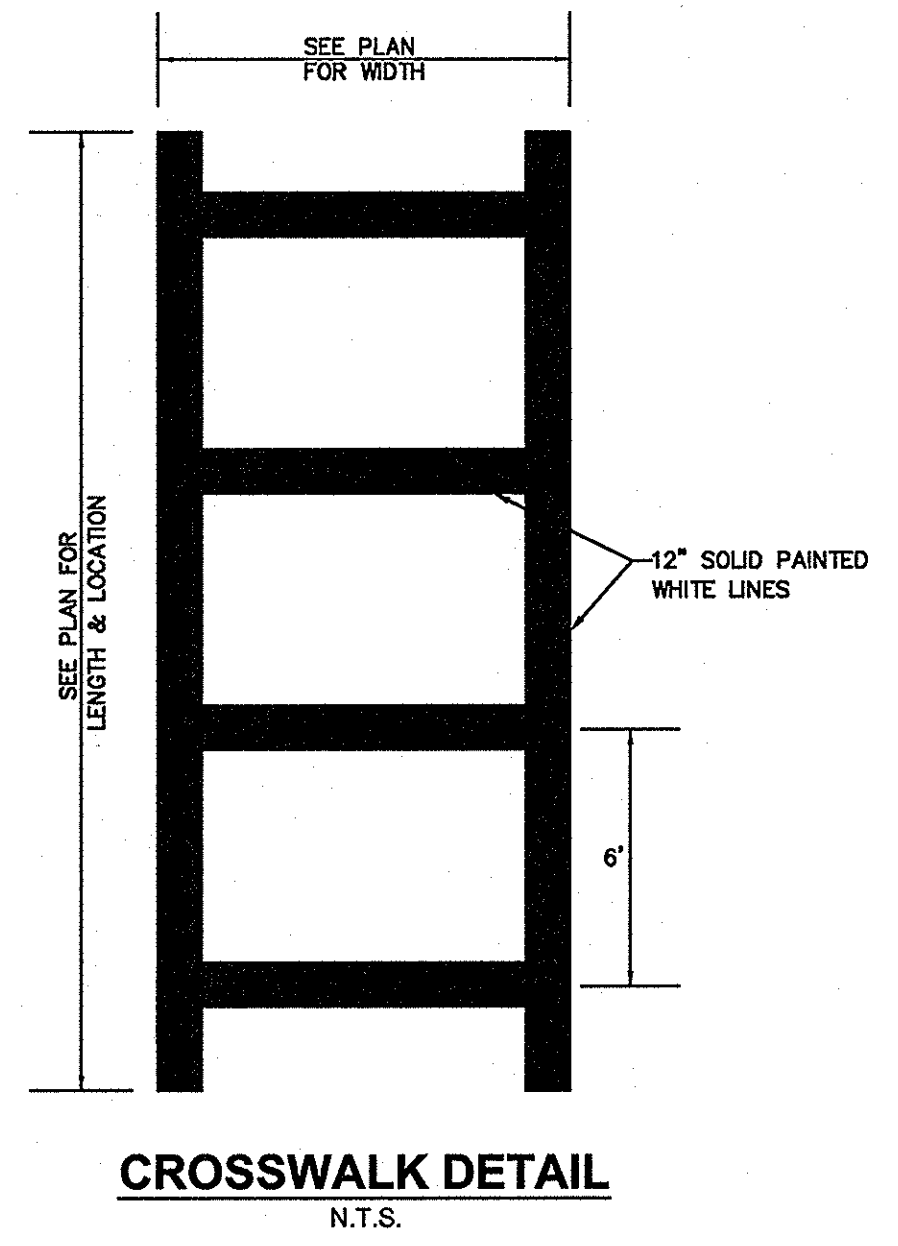


- GENERAL NOTES:**
- A GROOVE JOINT 1" DEEP WITH 1/8" RADI SHALL BE REQUIRED IN THE CONCRETE SIDEWALK AT 6' INTERVALS. ONE 1/2" EXPANSION JOINT WILL BE REQUIRED AT 30' INTERVALS NOT TO EXCEED 50' AND MATCHING EXPANSION/CONSTRUCTION JOINT IN ADJACENT CURB. A SEALED 1/2" EXPANSION JOINT WILL BE REQUIRED WHERE THE SIDEWALK JOINS ANY RIGID STRUCTURE.
 - SIDEWALK AT DRIVEWAY ENTRANCES TO BE 6" THICK.
 - CONCRETE COMPRESSIVE STRENGTH SHALL BE 3000 PSI. IN 28 DAYS.



NOTE: DETECTABLE WARNING SURFACE SHALL CONTRAST VISUALLY WITH THE ADJOINING SURFACE, AND SHALL BE INTEGRAL TO THE WALKING SURFACE. DETECTABLE SURFACES SHALL DIFFER FROM ADJACENT SURFACES IN RESILIENCY OR SOUND-ON-GAME CONTACT.

FOR ADDITIONAL INFORMATION ON ADA DETECTABLE WARNING DOME, CONTRACTOR CAN REFER TO THE FOLLOWING WEB SITE FOR MANUFACTURERS INFORMATION:
www.accessforblind.org/dw_manufacturers.html



SILT FENCE DETAIL

When and Where to Use It:
Silt fence is applicable in areas:
Where the maximum sheet or overlaid flow path length to the fence is 100'-feet.
Where the maximum slope steepness (normal [perpendicular] to fence line) is 2:1.
That do not receive concentrated flows greater than 0.5 cfs.
Do not place silt fence across channels or use it as a velocity control BMP.

Materials

Steel Posts
Use 48-inch long steel posts that meet the following minimum physical requirements:
Composed of high strength steel with minimum yield strength of 50,000 psi.
Have a standard "I" section with a nominal face width of 1.38-inches and nominal "I" length of 1.48-inches.
Have a soil stabilization plate with a minimum cross section area of 17-square inches attached to the steel posts.
Painted with a water based boiled enamel paint.

**Use steel posts with a minimum length of 4'-feet, weighing 1.25 pounds per linear foot (± 8%) with projections to aid in fastening the fabric. Except when heavy city soils are present on site, steel posts will have a metal soil stabilization plate welded near the bottom such that when the post is driven to the proper depth, the plate will be below the ground level for added stability. The soil plates should have the following characteristics:
Be composed of minimum 15 gauge steel.
Have a minimum cross section area of 17-square inches.**

Geotextile Filter Fabric
Filter fabric is composed of fibers consisting of long chain synthetic polymers composed of at least 85% by weight of polypropylene, polyesters, or polyamides. Formed into a network such that the filaments or yarns retain dimensional stability relative to each other. Free of any treatment or coating which might adversely affect its physical properties after installation. Free of defects or flaws that significantly affect its physical and/or filtering properties. Cut to a minimum width of 36 inches.

Installation
Excavate a trench approximately 6-inches wide and 6-inches deep when placing fabric by hand. Place 12-inches of geotextile fabric into the 6-inch deep trench, extending the remaining 6-inches towards the upslope side of the trench. Backfill the trench with soil or gravel and compact. Bury 12-inches of fabric into the ground when pneumatically installing silt fence with a silt fence machine. Purchase fabric in continuous rolls and cut to the length of the barrier to avoid joints. When joints are necessary, overlap the fabric together at a support post with both ends fastened to the post, with a 6-inch minimum overlap. Install posts to a minimum depth of 18-inches. Install posts a minimum of 1- to 2- inches above the fabric, with no more than 3'-feet of this post above the ground. Space posts to maximum 6-foot centers. Attach fabric to the steel posts using heavy-duty plastic ties that are evenly spaced and placed in a manner to prevent sagging or tearing of the fabric. In all cases, the should be affixed in no less than 4 places. Install the fabric a minimum of 24-inches above the ground. When necessary, the height of the fence above ground may be greater than 24-inches. In local areas, extra silt fence height may be required. The post height will be twice the exposed post height. Post spacing will remain the same and extra height fabric will be 4- to 5- or 6-foot tall. Locate silt fence checks every 100 feet minimum and at low points. Install the fence perpendicular to the direction of flow and place the fence the proper distance from the toe of steep slopes to provide sediment storage and access for maintenance and cleanout.

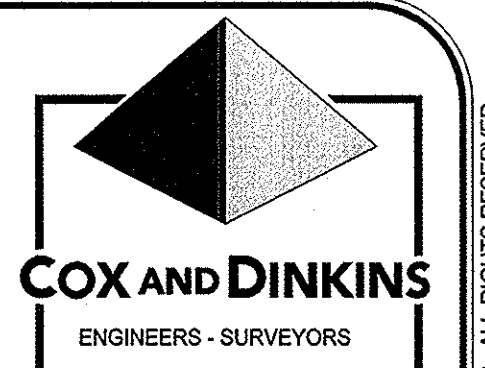
Inspection and Maintenance
Inspect every seven calendar days and within 24-hours after each rainfall event that produces 1/4-inch or more of precipitation. Check for sediment buildup and fence integrity. Check where runoff has eroded a channel beneath the fence, or where the fence has sagged or collapsed by fence overlapping. If the fence fabric begins to decompose, or in any way becomes ineffective, replace the section of fence immediately. Remove sediment accumulated along the fence when it reaches 1/3 the height of the fence, especially if heavy rains are expected. Remove trapped sediment from the site or stabilize it on site. Remove silt fence within 30 days after final stabilization is achieved or after temporary best management practices (BMPs) are no longer needed. Permanently stabilize disturbed areas resulting from fence removal.

Use only fabric appearing on SCDOT Approval Sheet #34 meeting the requirements of the most current edition of the SCDOT Standard Specifications for Highway Construction.

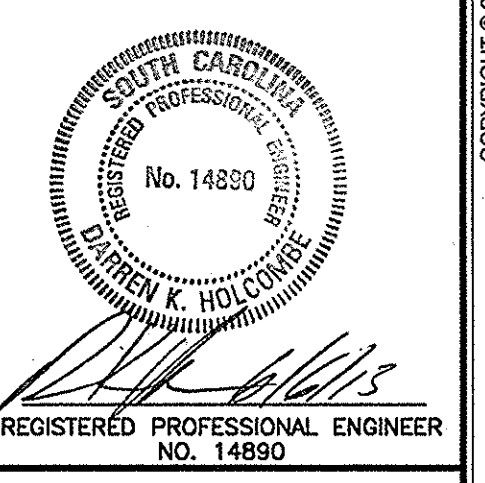
South Carolina Department of Health and Environmental Control

SILT FENCE

SC-03 Page 2 of 2



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CERTIFICATE OF AUTHORIZATION SEAL

REVISIONS	DESCRIPTION	DATE
No. 1	Addendum no. 1	6-6-13

DEVELOPER:

UNIVERSITY OF SOUTH CAROLINA
Facilities Design and Construction
743 Green Street
Columbia, SC 29208
803.777.5811

PROJECT CONTACT:
Fred Scott
864.503.5538

BID SET

UNIVERSITY OF SOUTH CAROLINA UPSTATE
NORTH CAMPUS BOULEVARD REPAIR / IMPROVEMENTS
STATE PROJECT H34-I360
LOCATED IN SPARTANBURG
SPARTANBURG COUNTY, SOUTH CAROLINA

DETAIL SHEET

TMS	6-08-00-010.01	BOOK	Y-58-24	SF NO.	N/A
PROJECT NO.	1703	SHEET NO.	C5 of 6		
DATE	5/10/2013				

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