

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

# UPSTATE CAMPUS ENTRANCE AND INFRASTRUCTURE

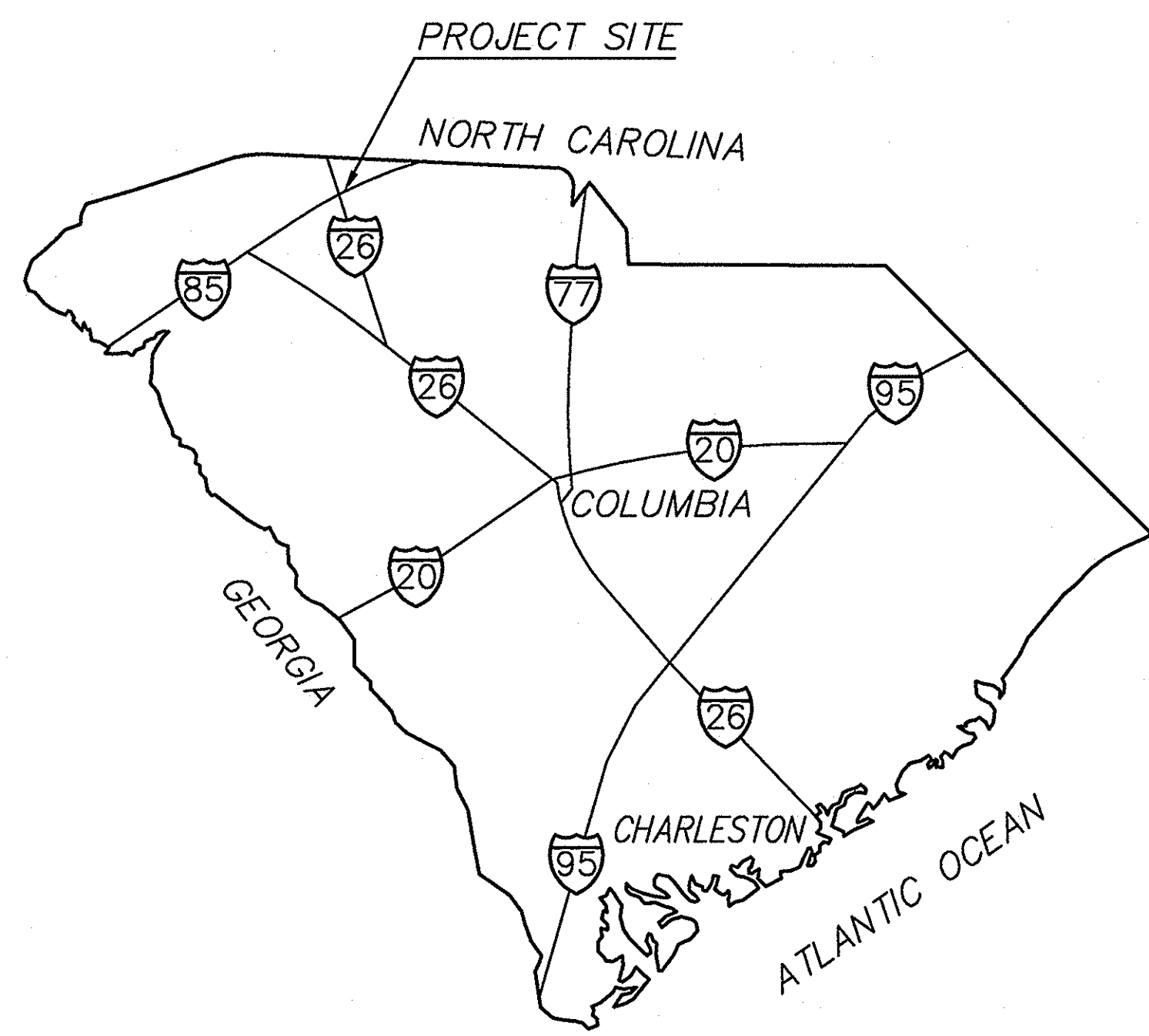
## H34-9530

PREPARED FOR:

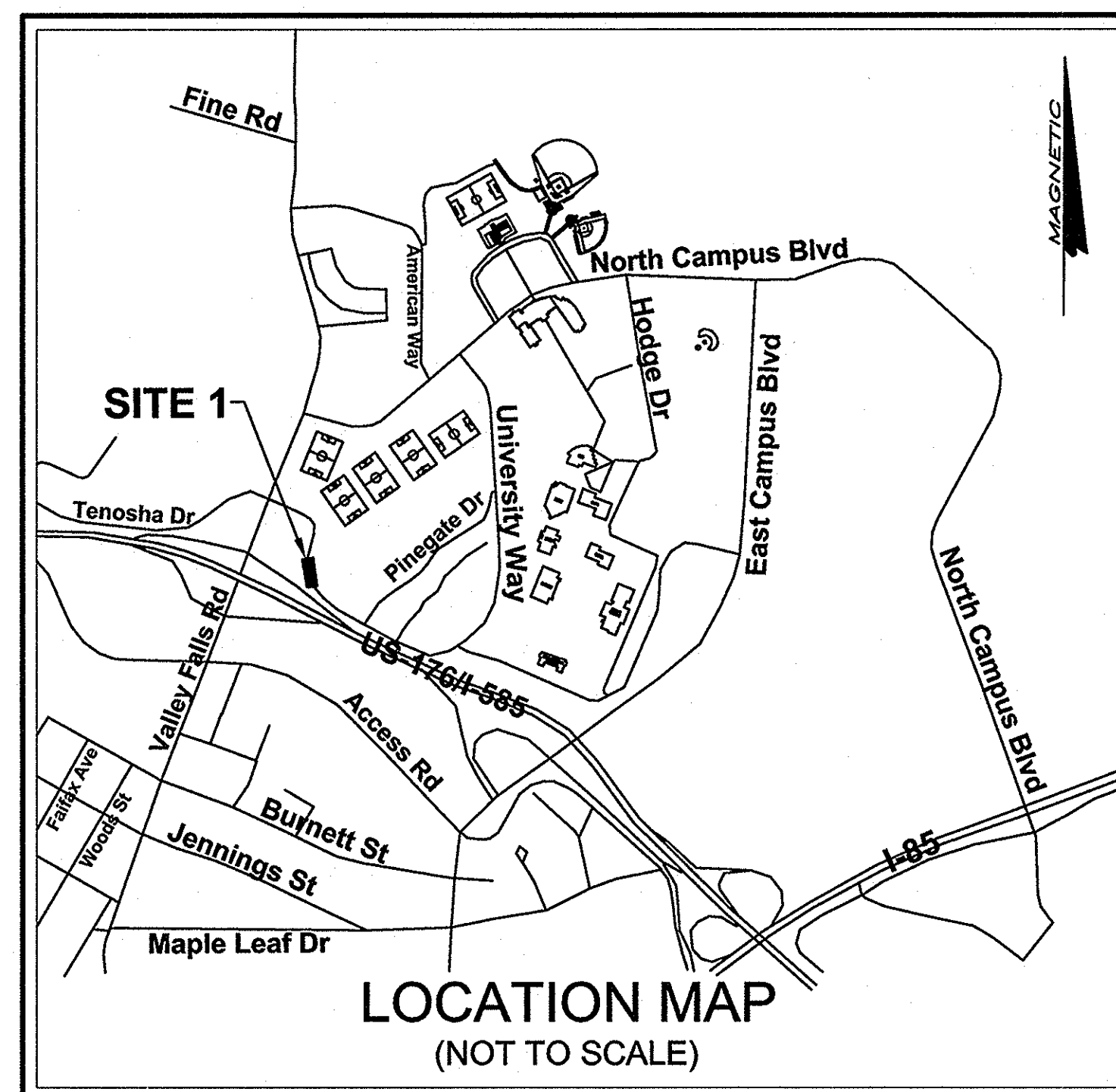
UNIVERSITY OF SOUTH CAROLINA  
FACILITIES DESIGN AND CONSTRUCTION  
743 GREENE STREET  
COLUMBIA, SOUTH CAROLINA 29208  
803.777.3126

**SHEET INDEX:**

C1	COVER AND INDEX SHEET
C2	SITE 1 PLAN
C3	DETAIL SHEET



STATE OF SOUTH CAROLINA MAP  
NOT TO SCALE



LOCATION 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.  
117 South Green Street, Suite 200 Columbia, South Carolina 29201 (803) 733-1117

Call 811 Before you Dig

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 DRAWINGS SUPPLIED 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 AGENTS 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**  
ENGINEERS - SURVEYORS

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

No. 29053  
Jesse McNeal  
REGISTERED PROFESSIONAL ENGINEER  
No. 29053

COX AND DINKINS, INC.  
No. C00294  
CERTIFICATE OF AUTHORIZATION

CERTIFICATE OF AUTHORIZATION SEAL

REVISIONS	DESCRIPTION	DATE	NO.

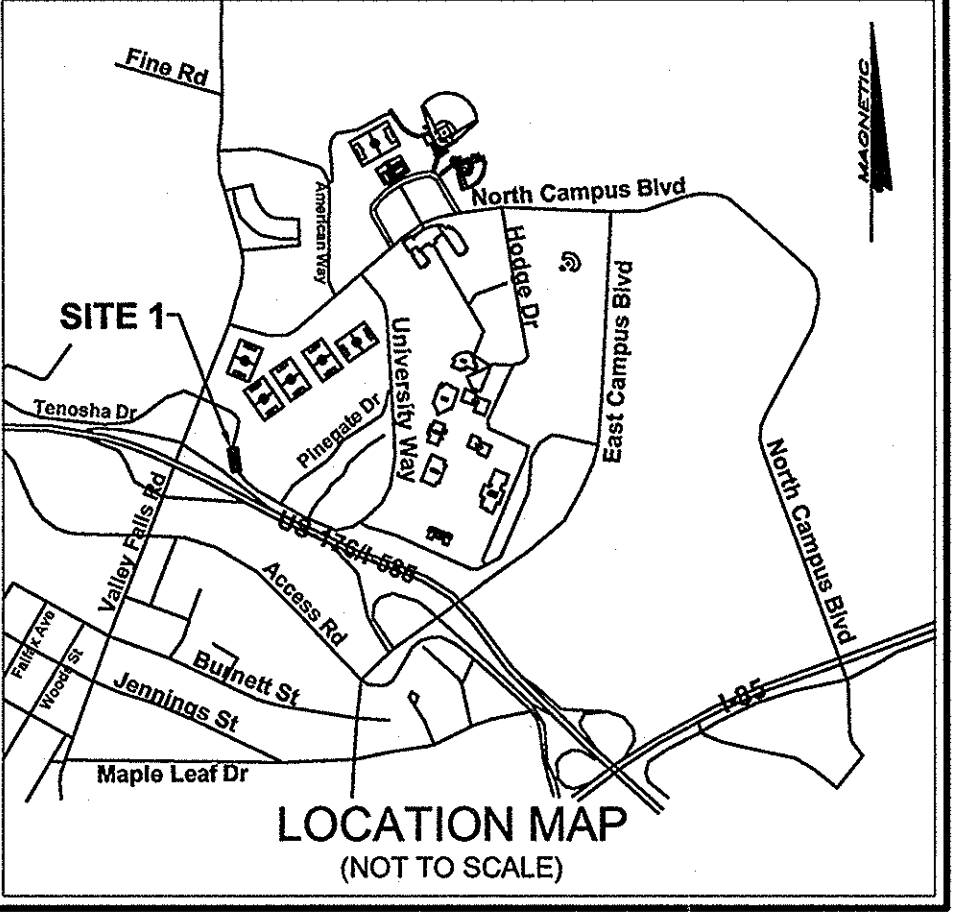
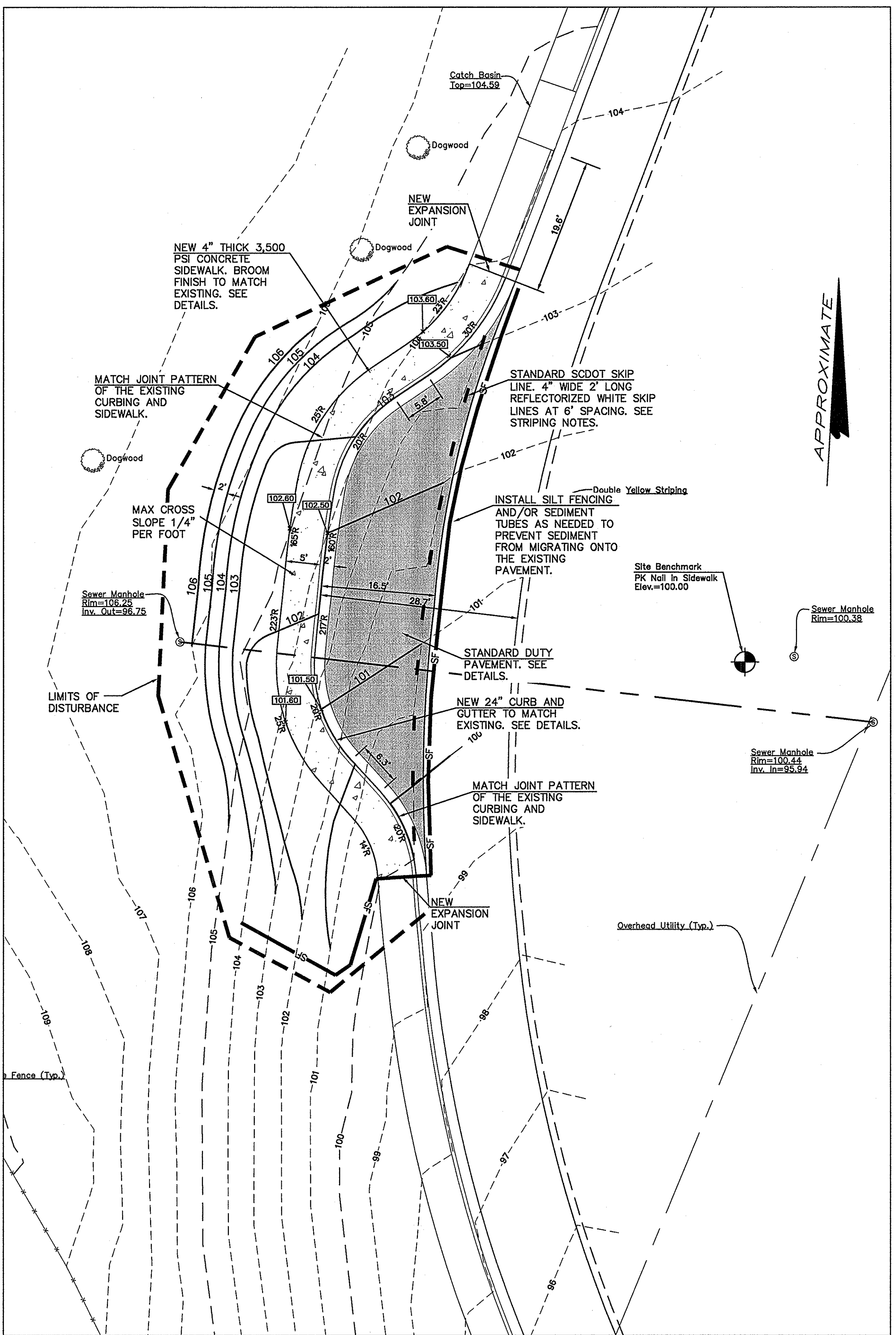
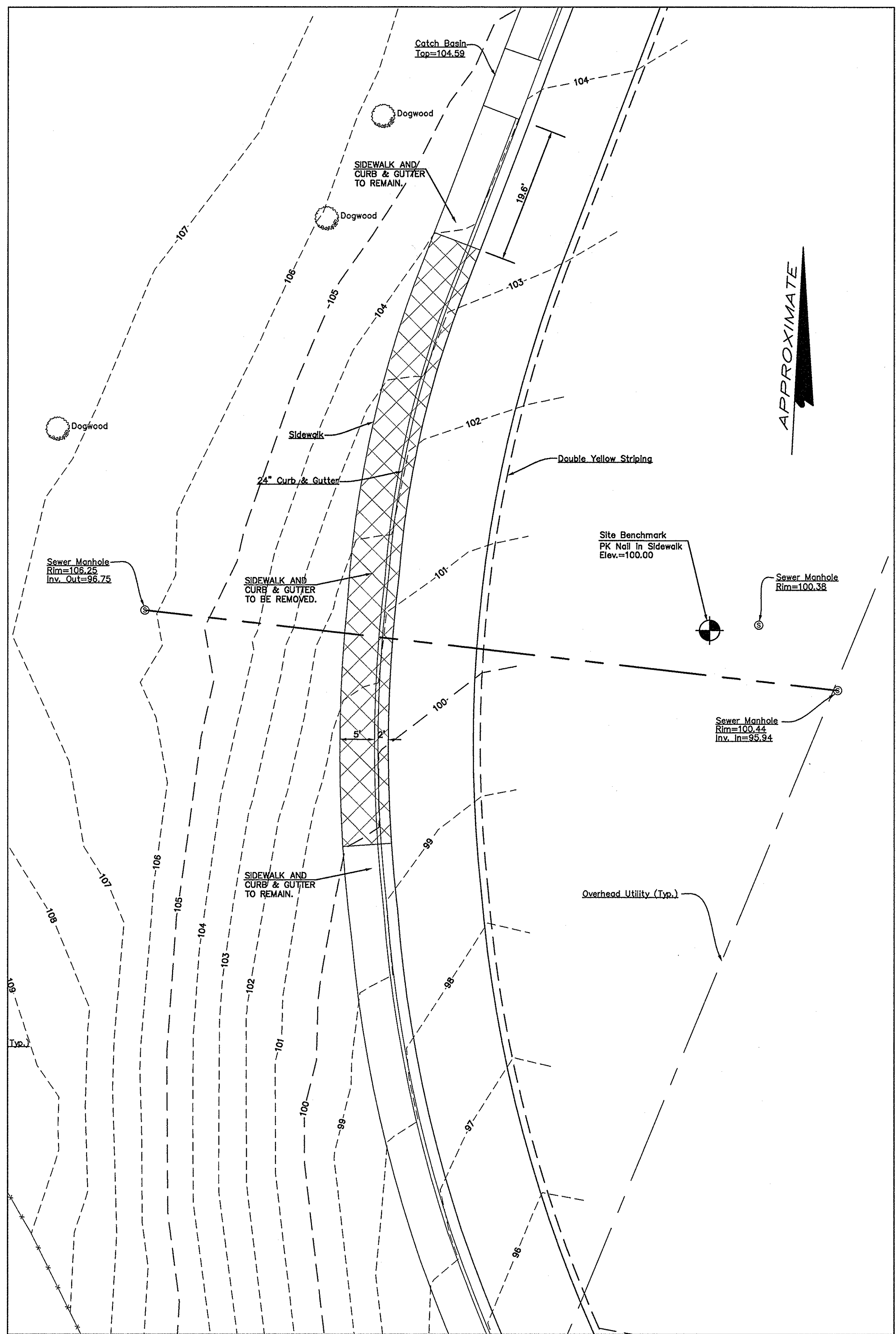
DEVELOPER:  
UNIVERSITY OF SOUTH CAROLINA  
Facilities Design and Construction  
743 Greene Street  
Columbia, SC 29208  
803.777.5811  
PROJECT CONTACT:  
Ben Coonrod  
803.530.5386

PROJECT:  
**UNIVERSITY OF SOUTH CAROLINA - UPSTATE  
CAMPUS ENTRANCE AND INFRASTRUCTURE**  
H34-9530

LOCATED NEAR SPARTANBURG  
SPARTANBURG COUNTY, SOUTH CAROLINA

**COVER AND INDEX SHEET**

TMS	BOOK	Y58-24-27	SF NO.
	PROJECT NO.	1693	SHEET NO.
	DATE	03/24/2014	<b>C1 of 3</b>



**COX AND DINKINS**  
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No.	DATE

**DEMOLITION NOTES:**

- 1) THE CONTRACTOR SHALL FIELD VERIFY ALL ASPHALT TO BE DEMOLISHED AND REMOVE FROM THE SITE. THE VERIFICATION PROCESS SHALL INCLUDE VISITING AND WALKING THE SITE. ALL ITEMS REQUIRING DEMOLITION/REMOVAL, WHETHER SHOWN ON THIS PLAN OR NOT, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 2) ALL EXISTING CONCRETE AND/OR ASPHALT PAVEMENT TO BE REMOVED SHALL BE DISPOSED OF OFF-CAMPUS PROPERTY BY THE CONTRACTOR ACCORDING TO APPLICABLE CODES.
- 3) SAW CUT, REMOVE AND DISCARD (PROPERLY OFF CAMPUS) SIDEWALK, CURB AND GUTTER, AND ASPHALT TO CREATE A STRAIGHT CONSTRUCTION JOINT.
- 4) IF ANY HAZARDOUS MATERIAL IS ENCOUNTERED DURING DEMOLITION, THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND APPROPRIATE AGENCIES FOR PROPER REMOVAL AND DISPOSAL.
- 5) DEMOLITION SHALL MEET ALL APPLICABLE STATE, LOCAL AND FEDERAL REGULATIONS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING APPLICABLE PERMITS.
- 6) ALL DEMOLITION MATERIAL SHALL BE DISPOSED OF OFF-CAMPUS PROPERTY BY THE CONTRACTOR.

**NOTES REGARDING PAVEMENT STRIPING:**

- 1) ALL PAVEMENT STRIPING SHOWN SHALL BE PERFORMED BY THE CONTRACTOR USING WHITE TRAFFIC MARKING PAINT UNLESS NOTED OTHERWISE BELOW. PAINT SHALL BE SHERWIN-WILLIAMS "PRO-MAR" TRAFFIC MARKING PAINT OR EQUIVALENT TRAFFIC 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: SKIP LINES

**GENERAL NOTES:**

- 1) THE LOCATION OF OTHER UNDERGROUND UTILITIES AND THEIR SERVICES ARE UNKNOWN.
- 2) IT IS THE CONTRACTORS 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) PROVIDE SIGNAGE AND FLAGMEN AS REQUIRED FOR TRAFFIC CONTROL DURING WORK.
- 5) GRADE TURN-OUT LANE TO MATCH SLOPE OF EXISTING ROADWAY TO ENSURE PROPER DRAINAGE. PROVIDE EROSION CONTROL WHERE REQUIRED TO CONTROL EROSION.
- 6) 4" OF TOP SOIL SHALL BE PLACED OVER ALL GRADED AREAS.
- 7) COORDINATE WITH OWNER WHO WILL INSTALL GRASS AND/OR SOD.
- 8) INSTALL TREE PROTECTION AS NECESSARY AND/OR AS DIRECTED BY THE OWNER.

**SITE 1 NOTE:**

COORDINATE FINE GRADING WITH OWNER. HAUL AND STORE EXCESS SOIL ON CAMPUS WHERE DIRECTED BY THE PROJECT MANAGER.

**BID QUANTITIES**

THE QUANTITIES SHOWN BELOW ARE APPROXIMATE. CONTRACTOR SHALL DETERMINE ALL QUANTITIES AND INCLUDE THEM IN THE BASE BID. OWNER IS NOT RESPONSIBLE FOR DISCREPANCIES BETWEEN ESTIMATED AND ACTUAL QUANTITIES.

ITEM	QUANTITIES
24" CURB & GUTTER	100 L.F.
ASPHALT PAVEMENT	820 S.F.
CONCRETE SIDEWALK	510 S.F.

DEVELOPER:  
UNIVERSITY OF SOUTH CAROLINA  
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Ben Conrod  
803.530.5386

PROJECT:  
**UNIVERSITY OF SOUTH CAROLINA - UPSTATE  
CAMPUS ENTRANCE AND INFRASTRUCTURE**  
H34-9530  
LOCATED NEAR SPARTANBURG  
SPARTANBURG COUNTY, SOUTH CAROLINA  
**SITE 1 PLAN**

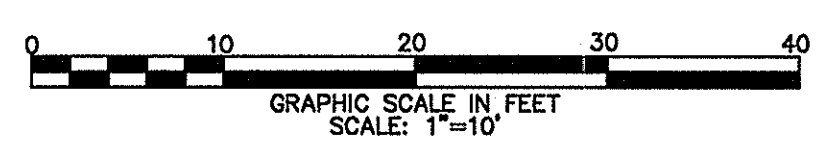
The Palmetto Utility Protection Service, Inc.  
811  
**South Carolina 811**  
CALL 811 Before you Dig  
3 DAYS BEFORE DIGGING IN SOUTH CAROLINA  
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**NOTE:**  
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**NOTES TO CONTRACTOR:**

- 1) THE CONTRACTOR SHALL NOTIFY BEN CONROD OF UNIVERSITY OF SOUTH CAROLINA UPSTATE (803-530-5386) 48 HOURS PRIOR TO STARTING WORK.
- 2) CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL. 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 BEN CONROD OF UNIVERSITY OF SOUTH CAROLINA UPSTATE (803-530-5386).
- 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 PUPS, METROPOLITAN WATER DISTRICT (864-503-0822) AND USC UPSTATE FACILITIES MANAGEMENT (803-530-5386) A MINIMUM THREE(3) DAYS PRIOR TO DIGGING.

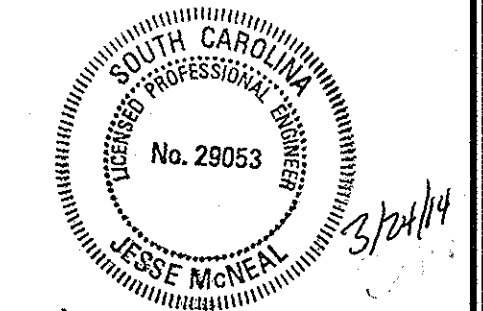


TMS

BOOK	Y58-24-27	SF NO.
PROJECT NO.	1693	SHEET NO.
DATE	03/24/2014	<b>C2 of 3</b>

COPYRIGHT © 2011 COX AND DINKINS, INC. ALL RIGHTS RESERVED. G:\Proj\1693 USC Upstate Turnouts\DRAWINGS\SITE ONE\1693-SITE1.dwg, Plotted By: SBD, Plotted: Apr 01, 2014 - 10:20am





Jesse McNeil  
REGISTERED PROFESSIONAL ENGINEER  
No. 29053



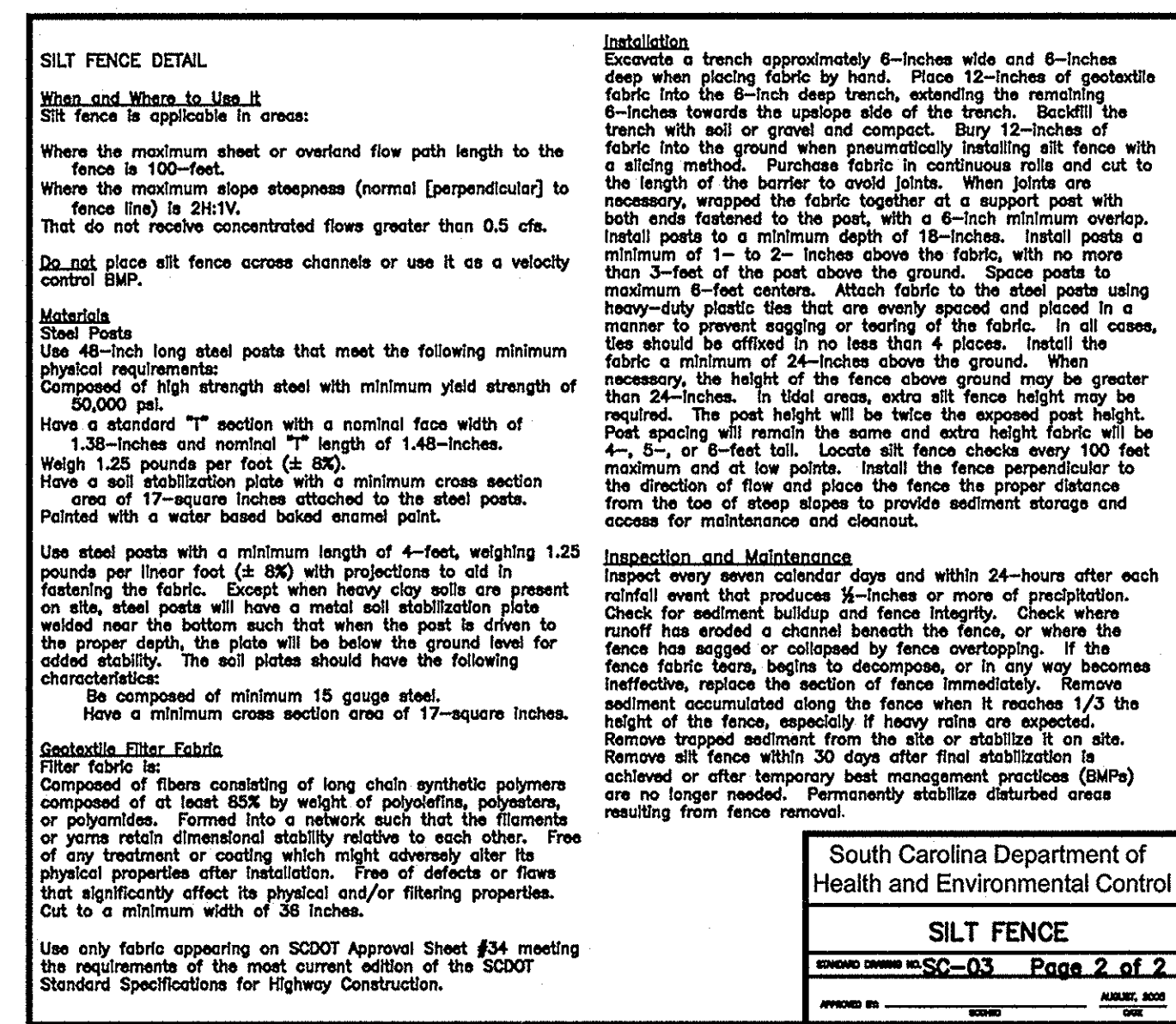
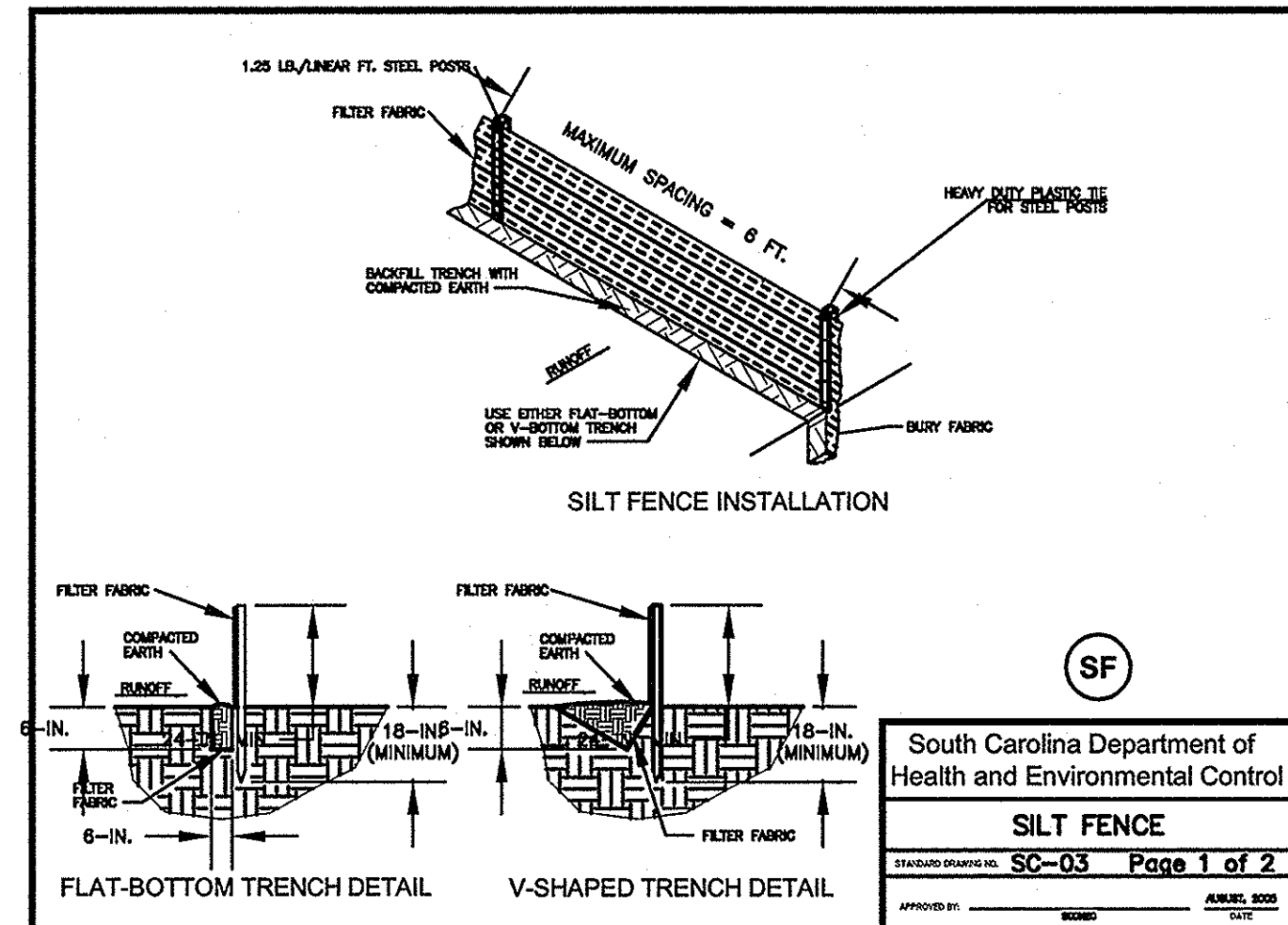
CERTIFICATE OF AUTHORIZATION SEAL

NO.	DATE	REVISIONS	DESCRIPTION

DEVELOPER:  
UNIVERSITY OF SOUTH CAROLINA  
Facilities Design and Construction  
743 Greene Street  
Columbia, SC 29208  
803.777.5811  
PROJECT CONTACT:  
Ben Conrod  
803.530.5386

PROJECT:  
**UNIVERSITY OF SOUTH CAROLINA - UPSTATE  
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H34-9530  
LOCATED NEAR SPARTANBURG  
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**DETAIL SHEET**

TMS	BOOK	Y58-24-27	SF NO.
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**PERMANENT GRASSING:**  
PERMANENT GRASS PLANTINGS BY SEASON WITH THE REQUIRED AMOUNTS OF FERTILIZER AND LIMESTONE PER 1,000 SQUARE FEET.

FROM MAY 1 - AUGUST 31

- 1 LB. BROWN TOP MILLET
- 2 LBS. HULLED BERMUDA
- 25 LBS. 10-10-10 FERTILIZER
- 75 LBS. LIMESTONE

OR

- 1 LB. BROWN TOP MILLET
- 1 LB. HULLED BERMUDA
- \*2 LB. BAHIA GRASS
- 25 LBS. 10-10-10 FERTILIZER
- 75 LBS. LIMESTONE

OR

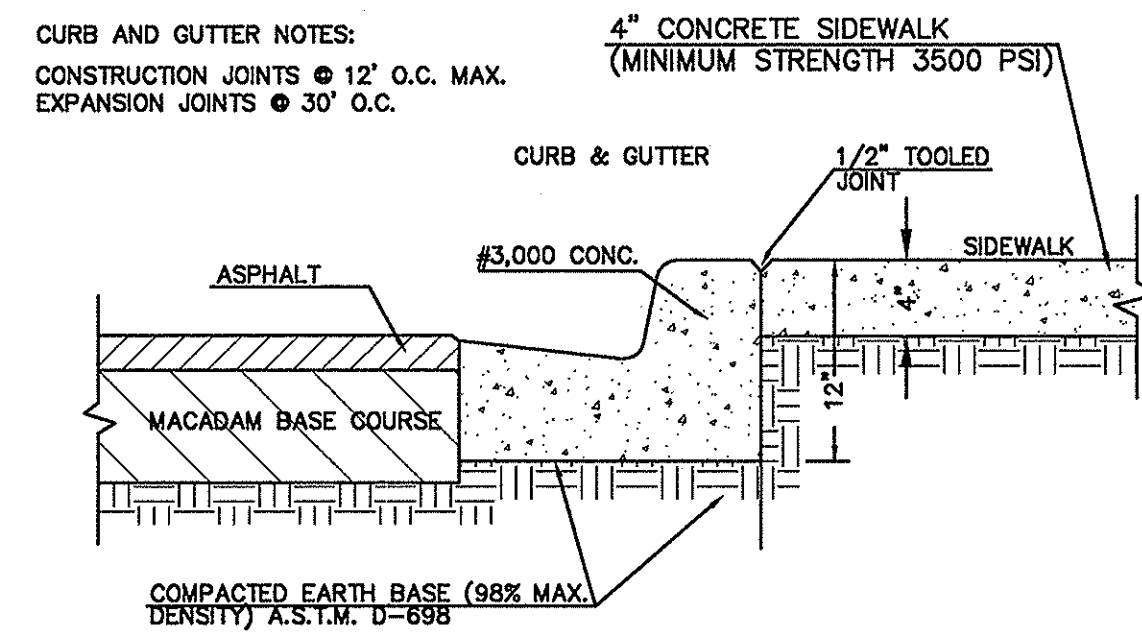
- DEEP SANDY SOILS
- 2 LBS. BROWN TOP MILLET
- \*3 LBS. BAHIA GRASS
- 25 LBS. 10-10-10 FERTILIZER
- 75 LBS. LIMESTONE

\*BAHIA GRASS IS A GOOD EROSION CONTROL GRASS. HOWEVER IT PRODUCES MANY SEED HEADS WHICH SCATTER TO OTHER AREAS. BAHIA GRASS IS HARD TO MOW. HOWEVER IT DOES NOT REQUIRE THE CARE THAT OTHER GRASSES REQUIRE. AROUND OFFICE BUILDINGS AND WITHIN SUBDIVISIONS USE 4 TO 6 OZS. CENTIPEDE GRASS IN LIEU OF BAHIA GRASS OR IN COMBINATION WITH BERMUDA GRASS.

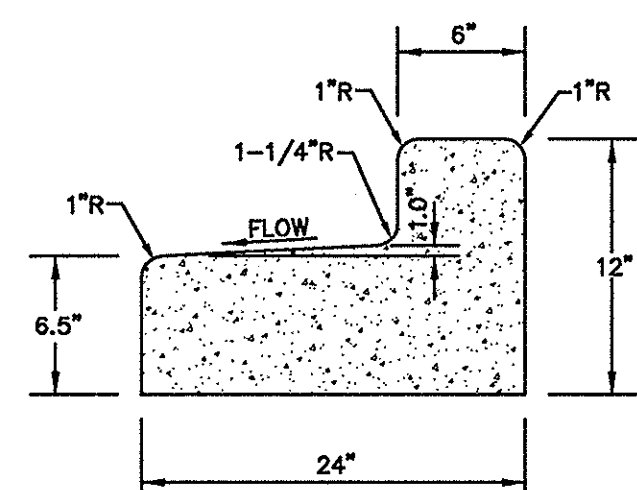
\*\*FOR SOILS WITH CLAY SUBSOIL. DO NOT PLANT IN SANDY SOILS.

ALL VEGETATED SWALES AND DITCHES WITH SIDE SLOPES (CUT OR FILL) STEEPER THAN 2:1 ADD 4 TO 6 OUNCES/1,000 SQUARE FEET OF WEEPING LOVE GRASS SEED TO ANY OF THE ABOVE MIXTURES. SWALE AND DITCH BOTTOMS SHOULD BE DOUBLE SEEDED. ALSO ALL SIDE SLOPES STEEPER THAN 2:1 SHALL BE HYDROSEEDED. GROWTH OF RYE GRASS IN EARLY SPRING MUST BE SUPPRESSED TO PREVENT RYE FROM CHOKING OUT PERMANENT GRASS SUCH AS BERMUDA, BAHIA OR FESCUE.

NOTE: CONTRACTOR SHALL VERIFY AND USE CAMPUS STANDARD PRIOR TO INSTALLATION.



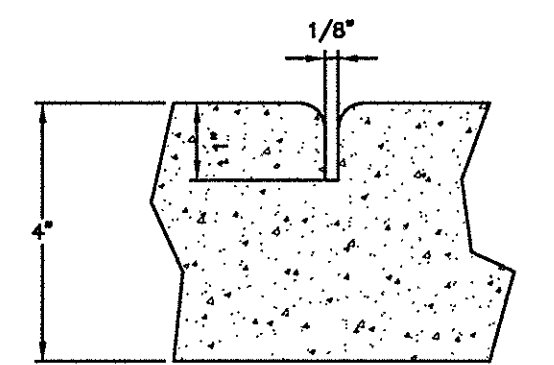
**TYPICAL CURB AND SIDEWALK DETAIL**  
NTS



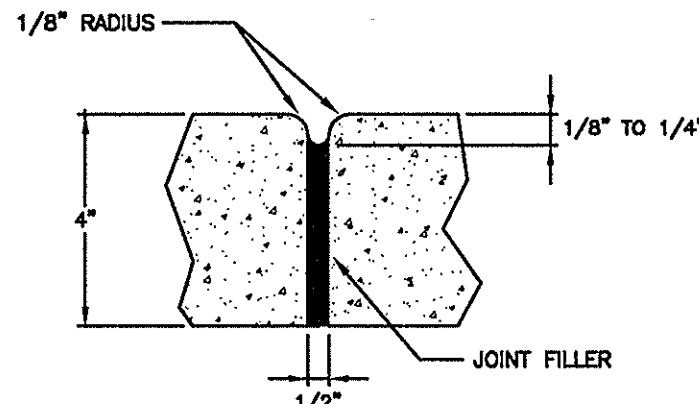
**EXPULSION**

**"L" TYPE CURB AND GUTTER**  
NTS

Min. Concrete Strength = 3000 p.s.i.



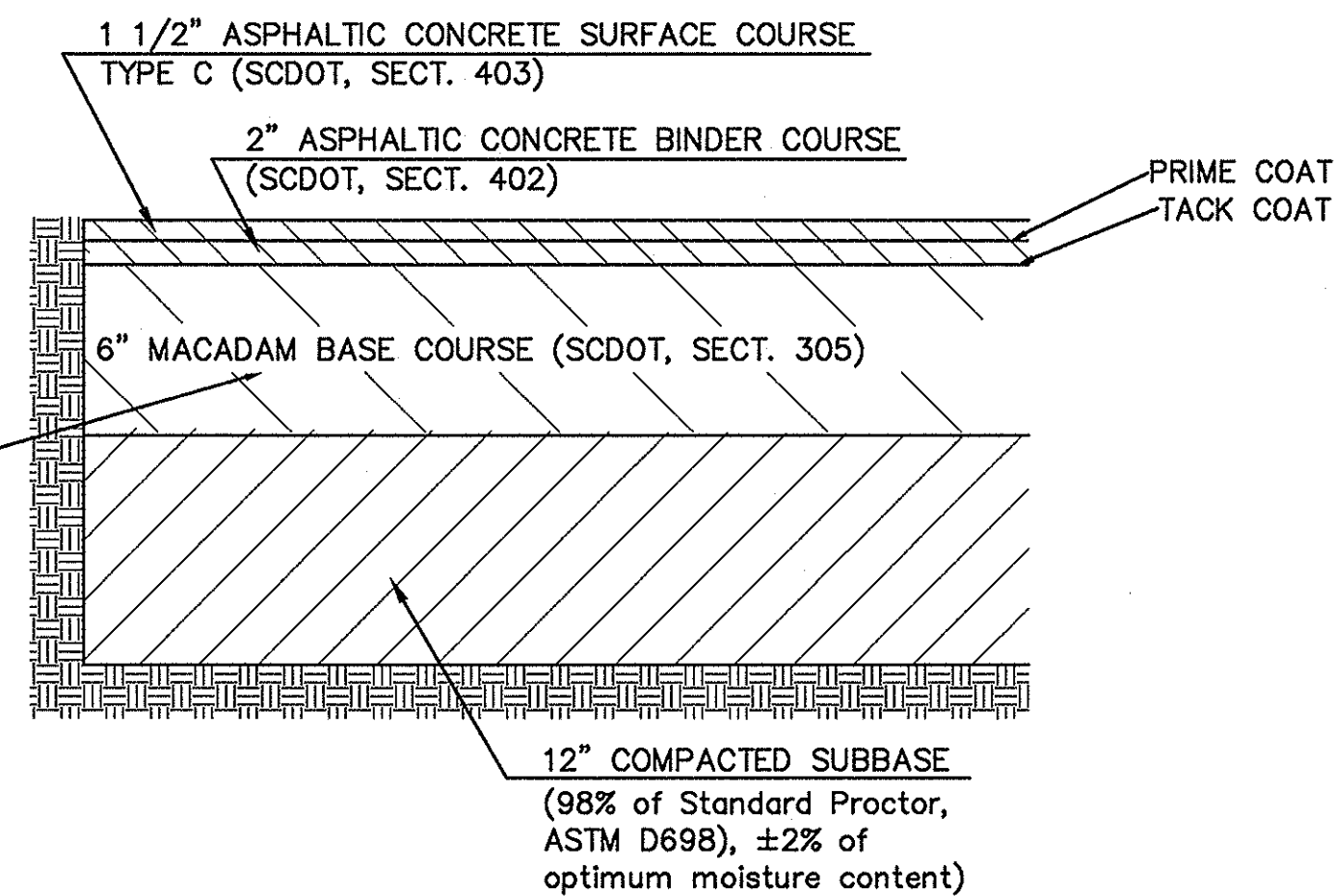
**GROOVE JOINT IN SIDEWALK**



**TRANSVERSE EXPANSION JOINT IN SIDEWALK**

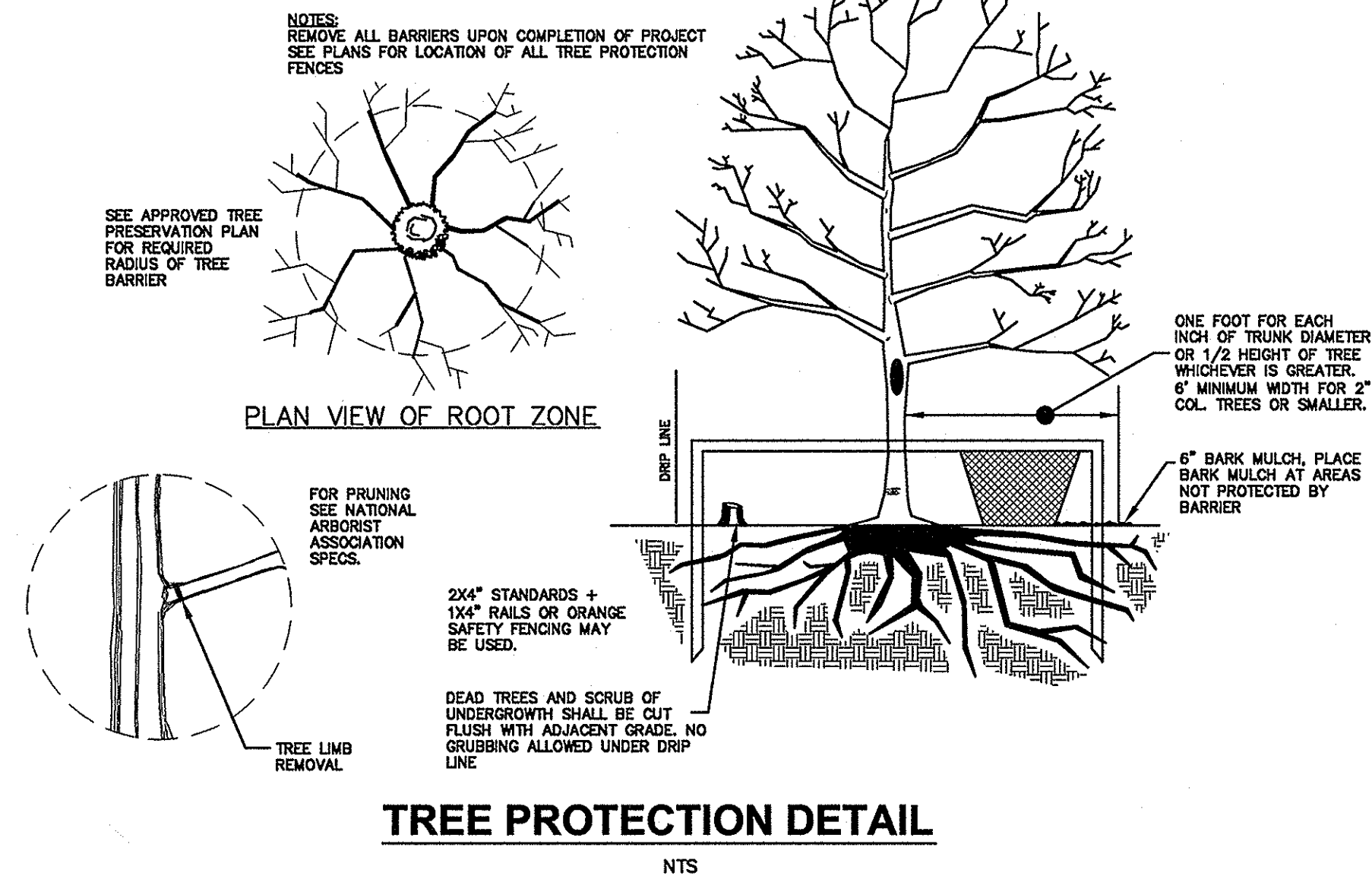
**GENERAL NOTES:**

- 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.



**STANDARD DUTY ASPHALT PAVEMENT SECTION**

CONTRACTOR TO VERIFY WITH OWNER'S GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION  
NTS



**TREE PROTECTION DETAIL**  
NTS