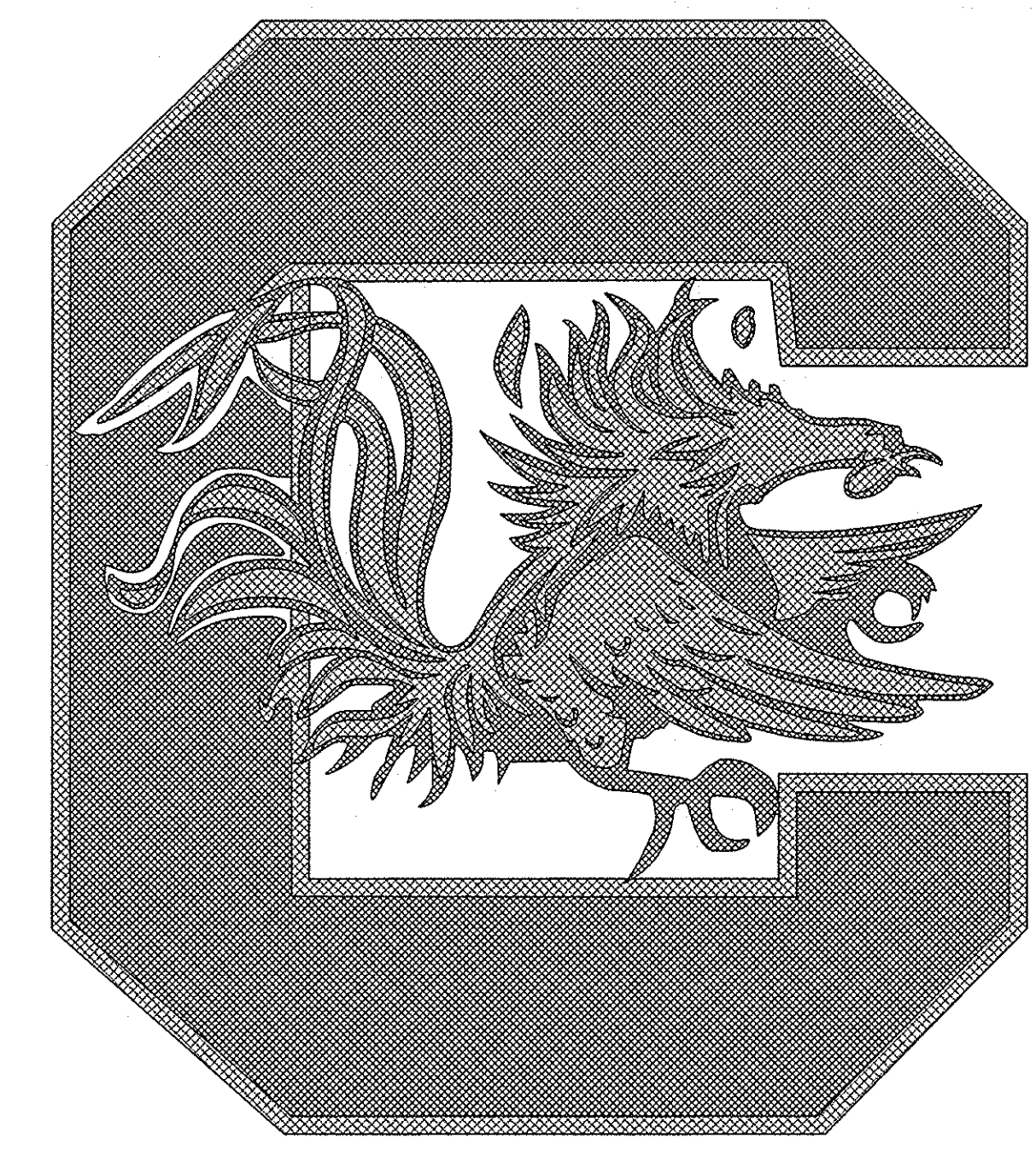
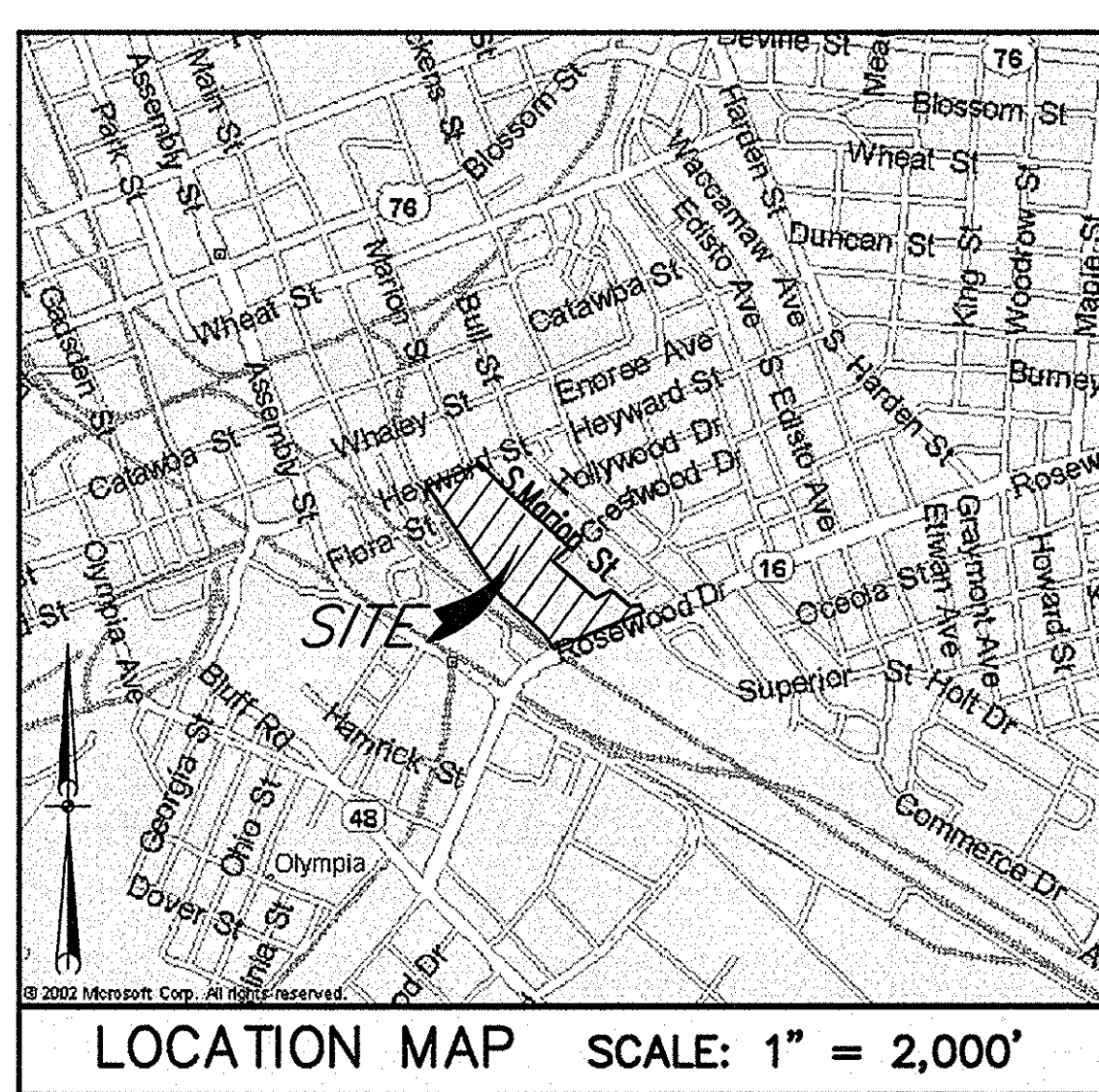


# PARKING, CURB AND SIDEWALK IMPROVEMENT HEYWARD & MARION STREETS FOR UNIVERSITY OF SOUTH CAROLINA PROJECT NO. H27-1985



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IRRIGATION PLAN	L2
PLANTING AND IRRIGATION DETAILS	L3
ELECTRICAL SITE PLAN	E1
ELECTRICAL LEGEND, DETAILS AND SCHEDULES	E2



RMF ENGINEERING, INC.  
474 WANDO PARK BLVD  
SUITE 100  
MT. PLEASANT, SC 29464  
PHONE: 843-971-9639  
FAX: 843-971-9641  
www.rmf.com

GRIMBALL  
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LANDSCAPE ARCHITECTS & LAND PLANNERS  
500 BELLEVUE BOULEVARD  
COLUMBIA, SC 29203

**URS**  
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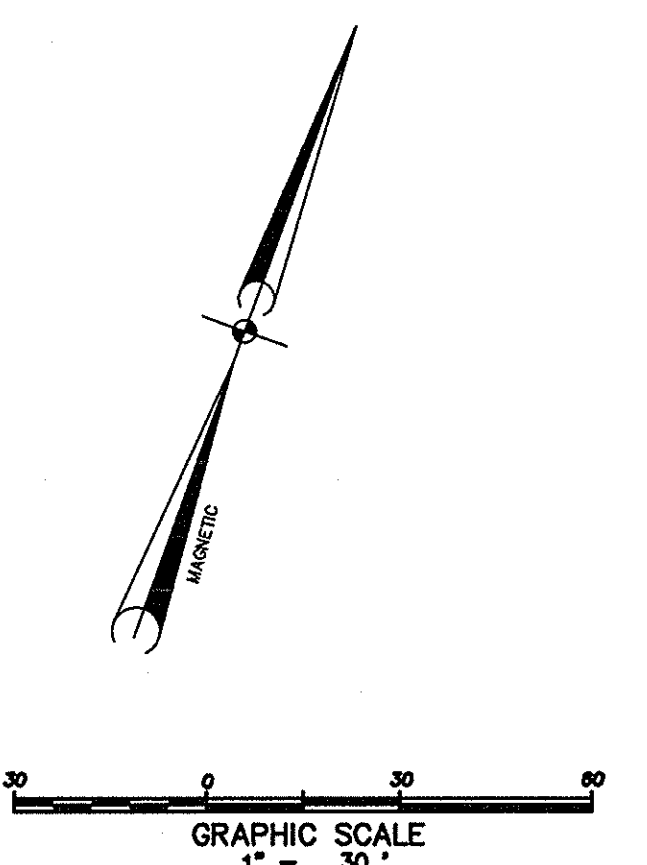
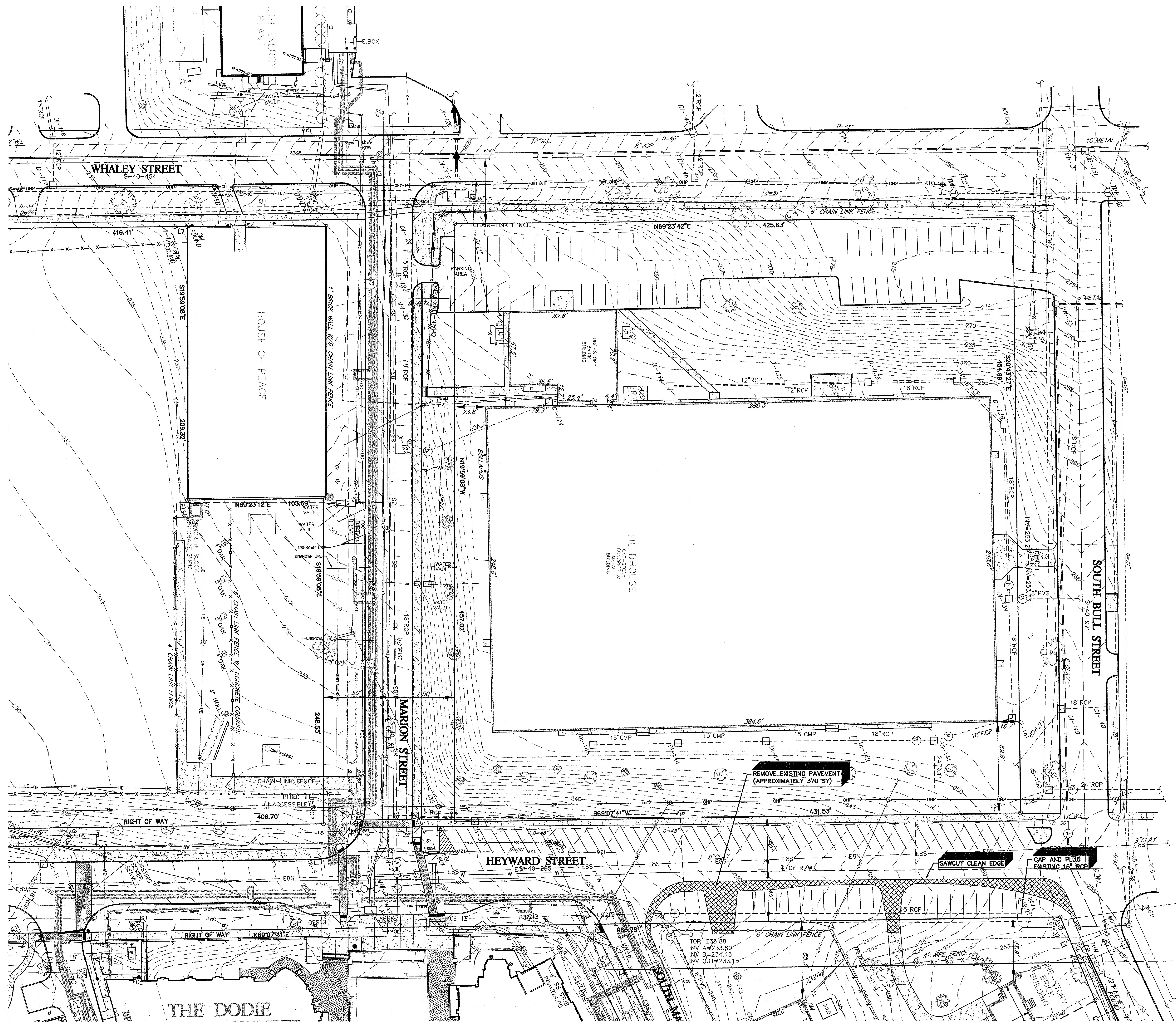
OWNER/DEVELOPER  
UNIVERSITY OF SOUTH CAROLINA  
743 GREENE STREET  
COLUMBIA, SC 29208  
TELE: 803-777-5811  
FAX: 803-777-3126  
MS. ANN DERRICK

MAY 21, 2012  
PROJECT NO.  
46422191  
FILE NO.  
35,927-B89

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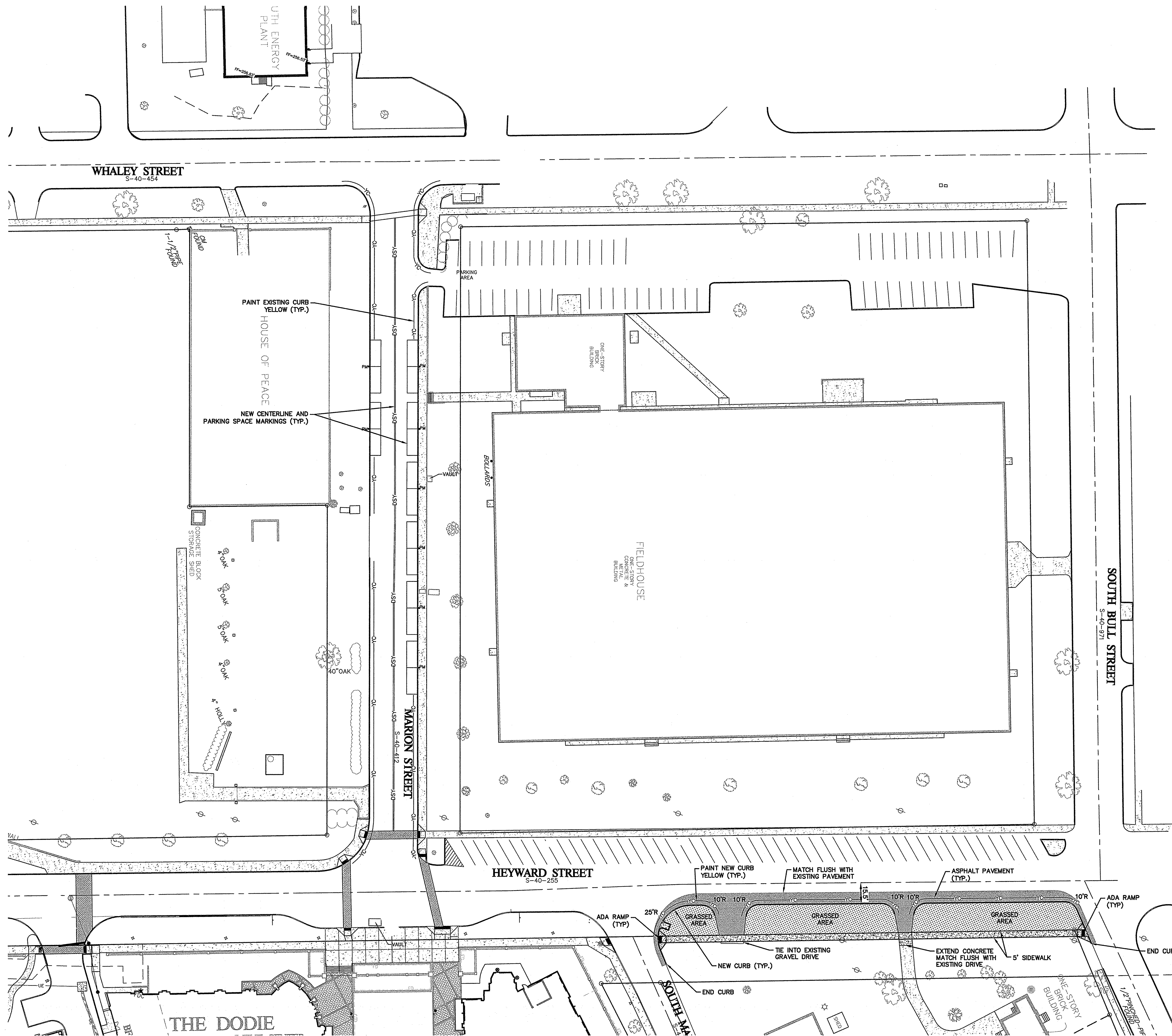
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<b>EXISTING CONDITIONS AND DEMOLITION PLAN</b>	
<p> <b>URS</b>          101 Research Drive          Columbia, South Carolina 29203          Telephone (803) 254-4400 • Fax (803) 771-6676          www.urscorp.com       </p>	<p>         PROJECT: PARKING, CURB AND SIDEWALK IMPROVEMENTS HEYWARD &amp; MARION STREETS          FOR: UNIVERSITY OF SOUTH CAROLINA IN THE CITY OF COLUMBIA RICHLAND COUNTY, S.C.       </p>
<p>         SHEET TITLE: EXISTING CONDITIONS AND DEMOLITION PLAN          DATE: MAY 21, 2012          SCALE: 1"=30'       </p>	<p>         SHEET: C1          OF: 4          FILE NO. 35,927-889       </p>
<p>         APPROVALS: PROJECT ENG: [Signature] DATE: [ ] BY: [ ]          DESIGNED BY: [Signature] DATE: [ ] BY: [ ]          CHECKED BY: [Signature] DATE: [ ] BY: [ ]          APPROVED BY: [Signature] DATE: [ ] BY: [ ]       </p>	
<p>         CAROLINA POLYZEONALITY OF URS CORPORATION          LICENSE NO. 10088          CERTIFICATE NO. 10088          DATE 6-11-72       </p>	



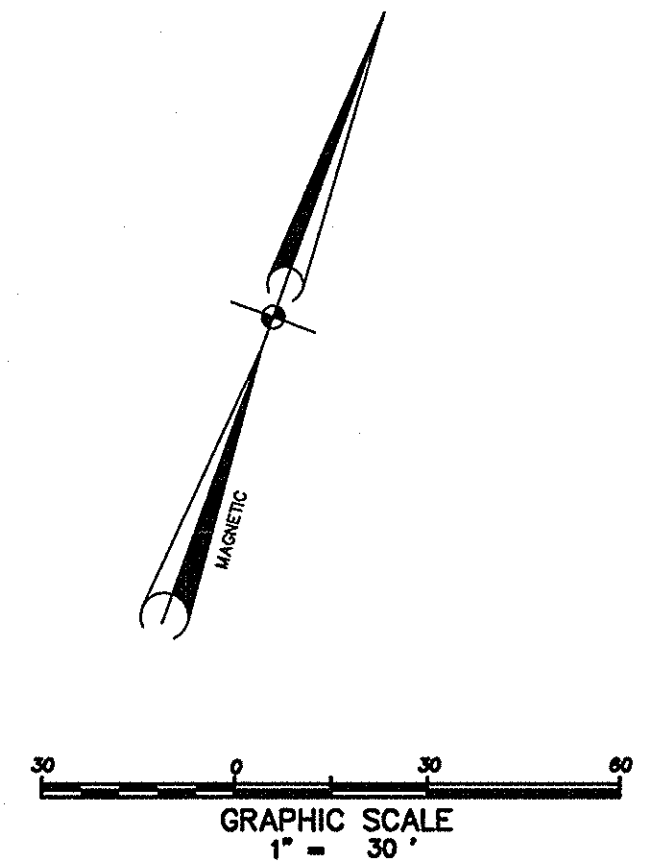
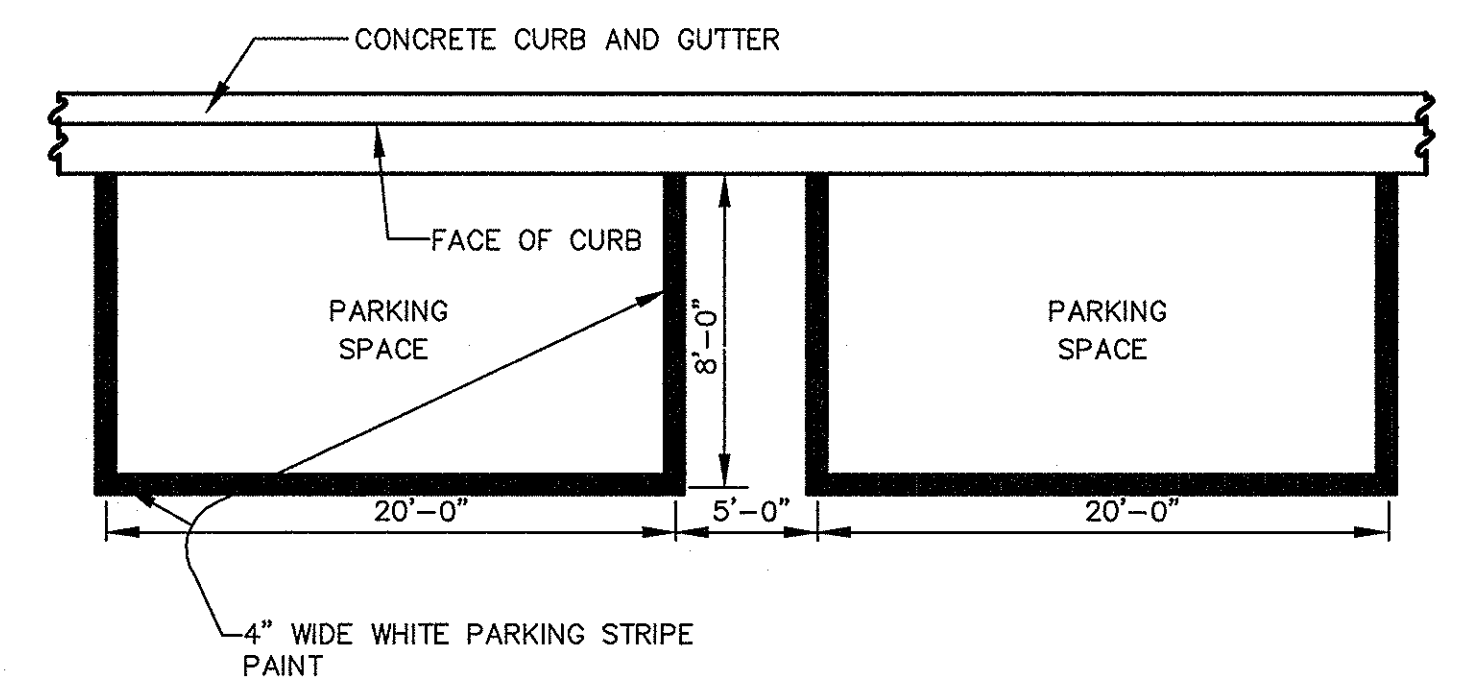
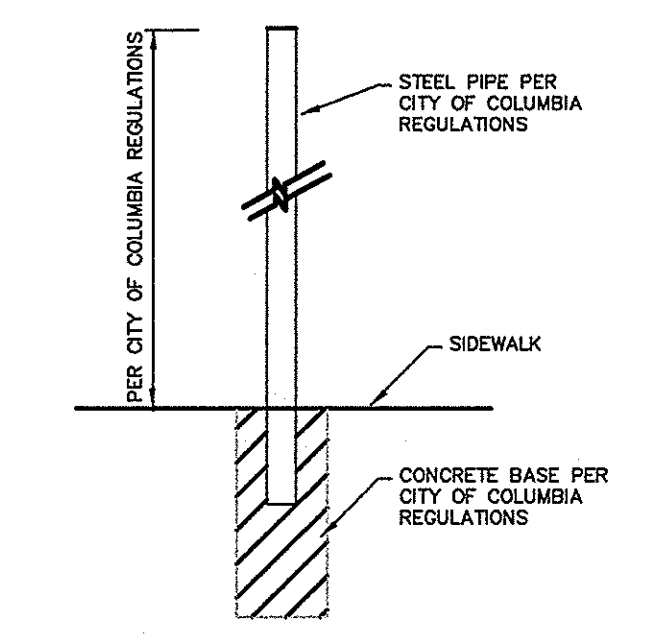
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**LEGEND**

	EXISTING	NEW
SIDEWALK	[Pattern]	[Pattern]
PAVEMENT	[Pattern]	[Pattern]
GRASS AREA	[Pattern]	[Pattern]
YELLOW CURB	[Pattern]	[Pattern]
PARKING SPACE	[Pattern]	[Pattern]
PARKING METER	[Pattern]	[Pattern]
CURBING	[Pattern]	[Pattern]
DOUBLE SOLID YELLOW (CENTERLINE)	[Pattern]	[Pattern]

NOTE: ALL PAVEMENT STRIPING SHALL BE PLACED IN COMPLIANCE WITH CURRENT CITY OF COLUMBIA AND SCOT REGULATIONS. USE THERMOPLASTIC MATERIALS FOR ALL PAVEMENT MARKINGS.

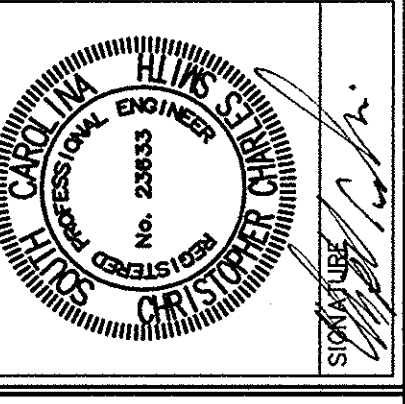
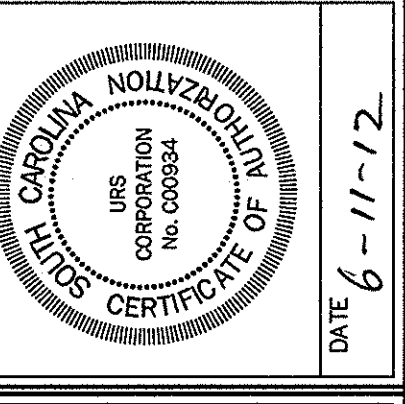


**REVISIONS**

NO.	DATE	DESCRIPTION

**APPROVALS**

PROJECT ENG.	DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED



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Columbia, South Carolina 29203  
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**SITE LAYOUT PLAN**  
SHEET TITLE  
DATE: MAY 21, 2012  
SCALE: 1" = 30'

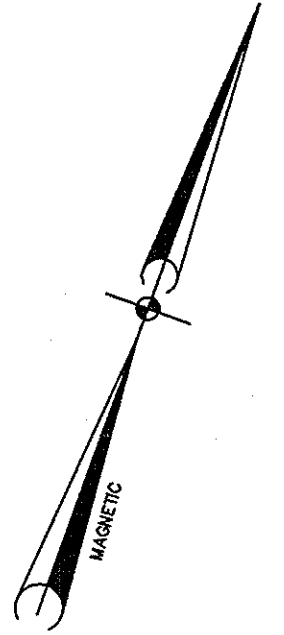
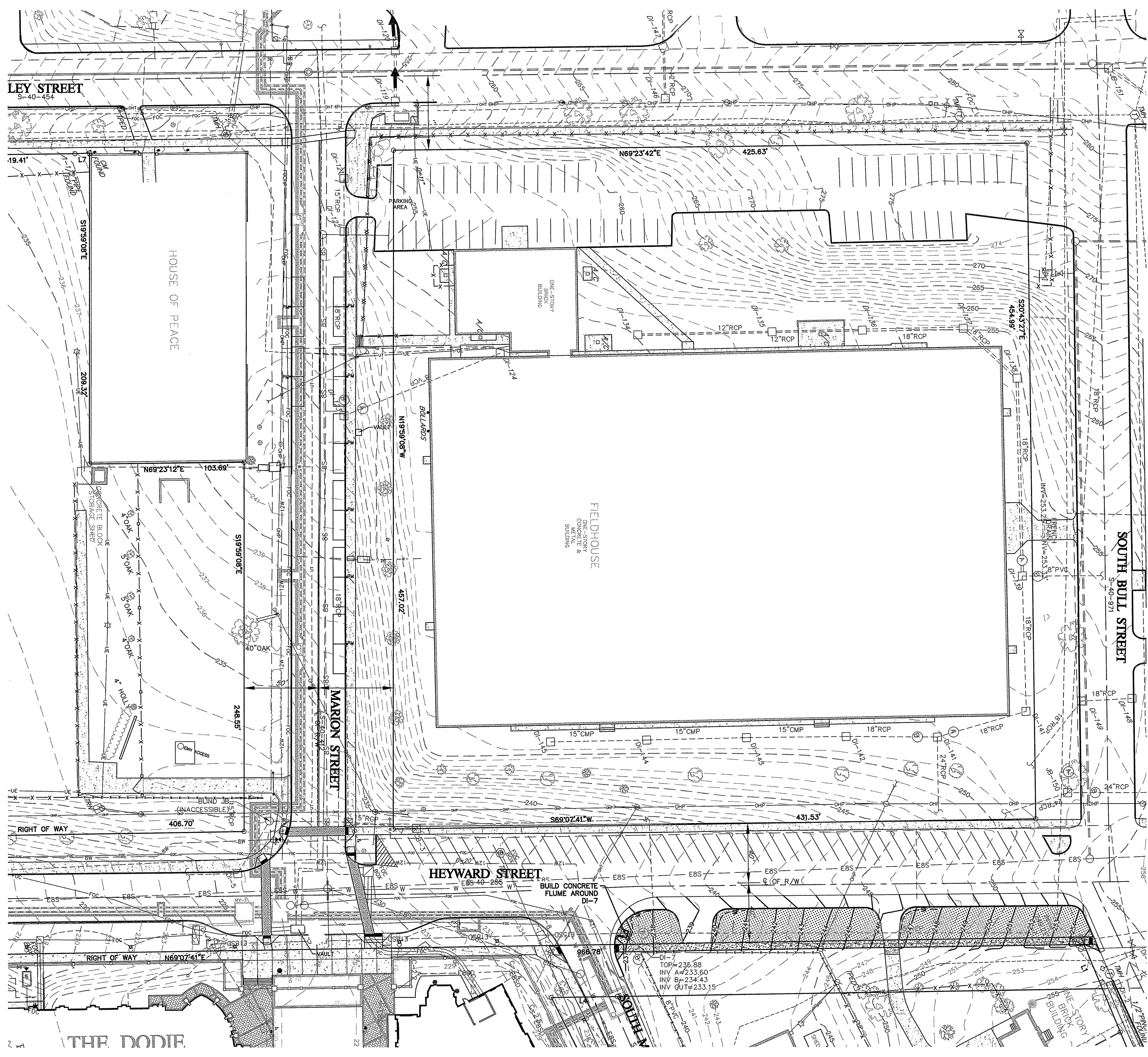
**PARKING, CURB AND SIDEWALK IMPROVEMENTS HEYWARD & MARION STREETS**  
FOR  
**UNIVERSITY OF SOUTH CAROLINA**  
RICHLAND COUNTY, S.C.  
IN THE CITY OF COLUMBIA

DWG. NAME	SHEET
N.B. NO. 2103, 2039	C2
REF. 34,357-B82	OF 4
PROJECT NO. 46422191	

FILE NO. 35,927-B89



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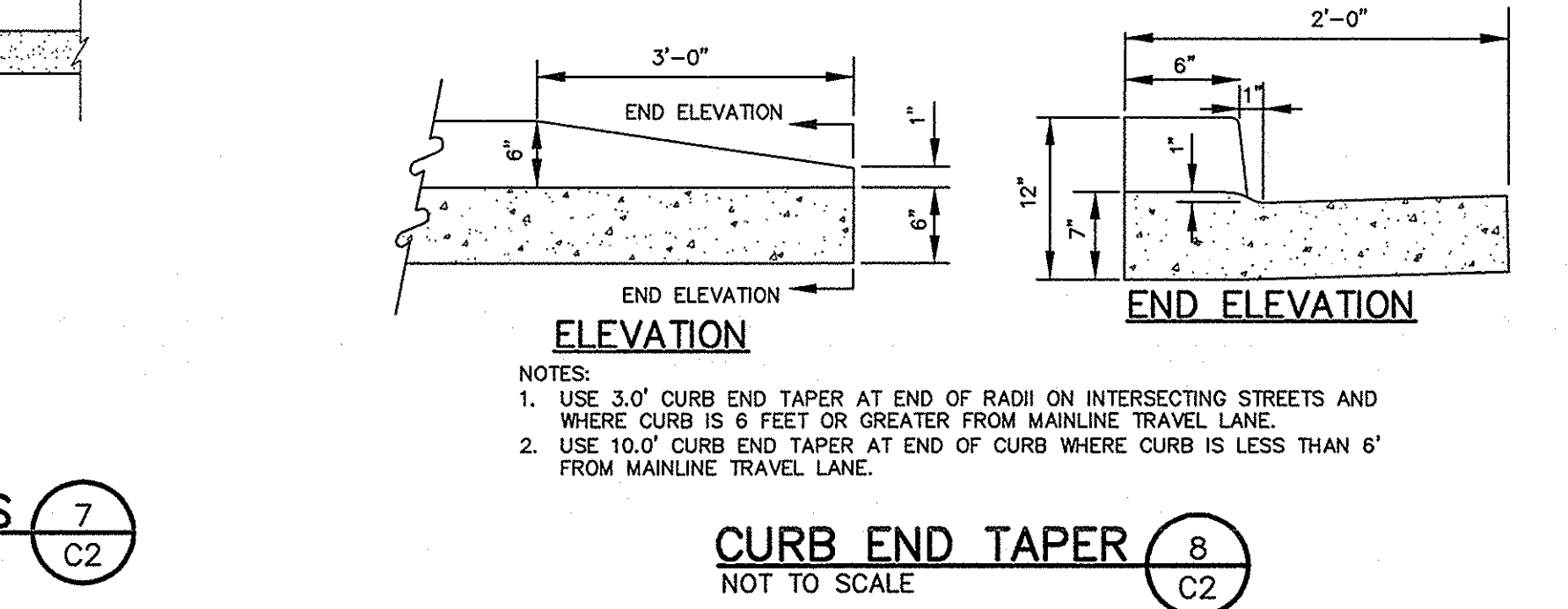
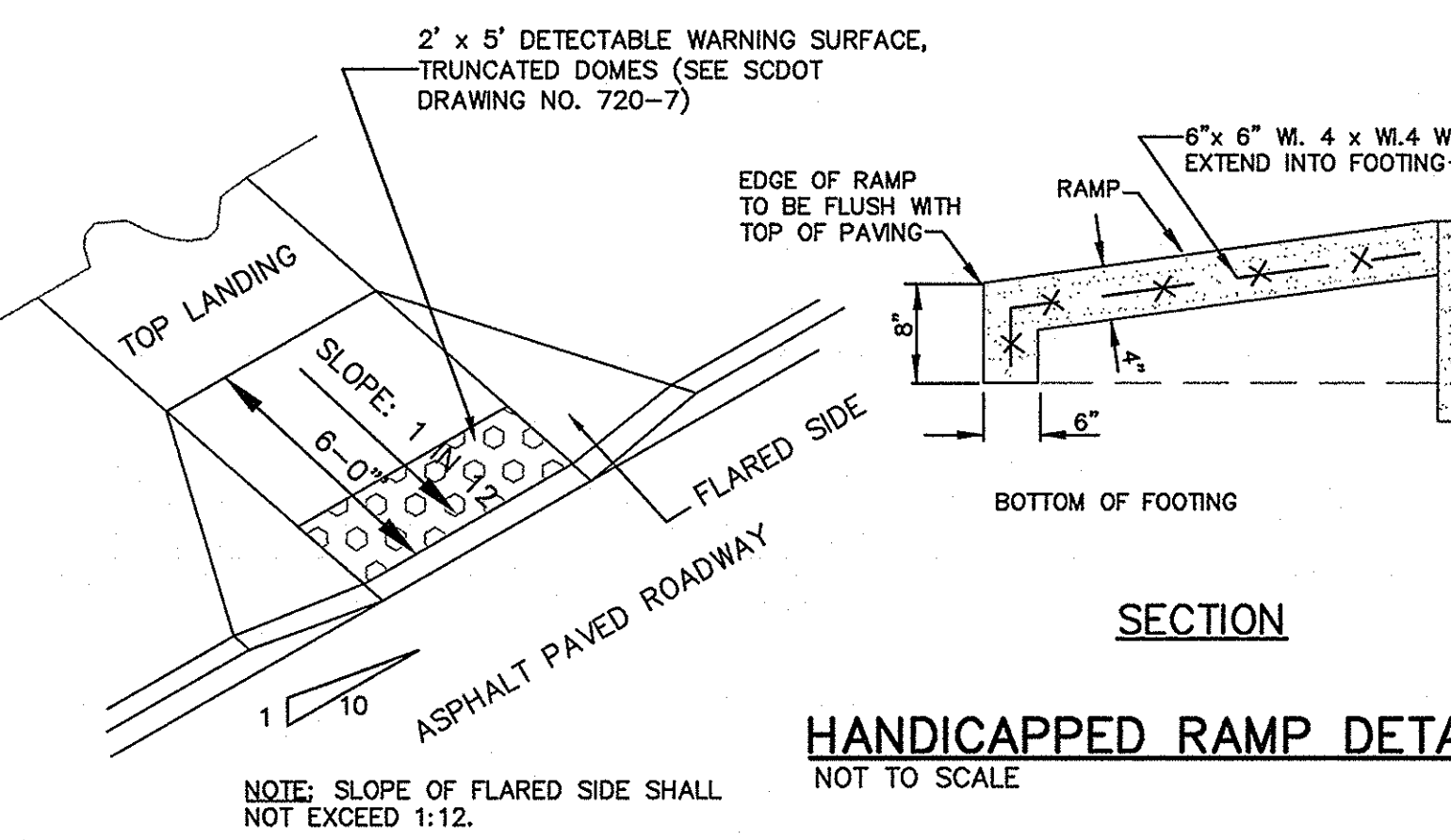
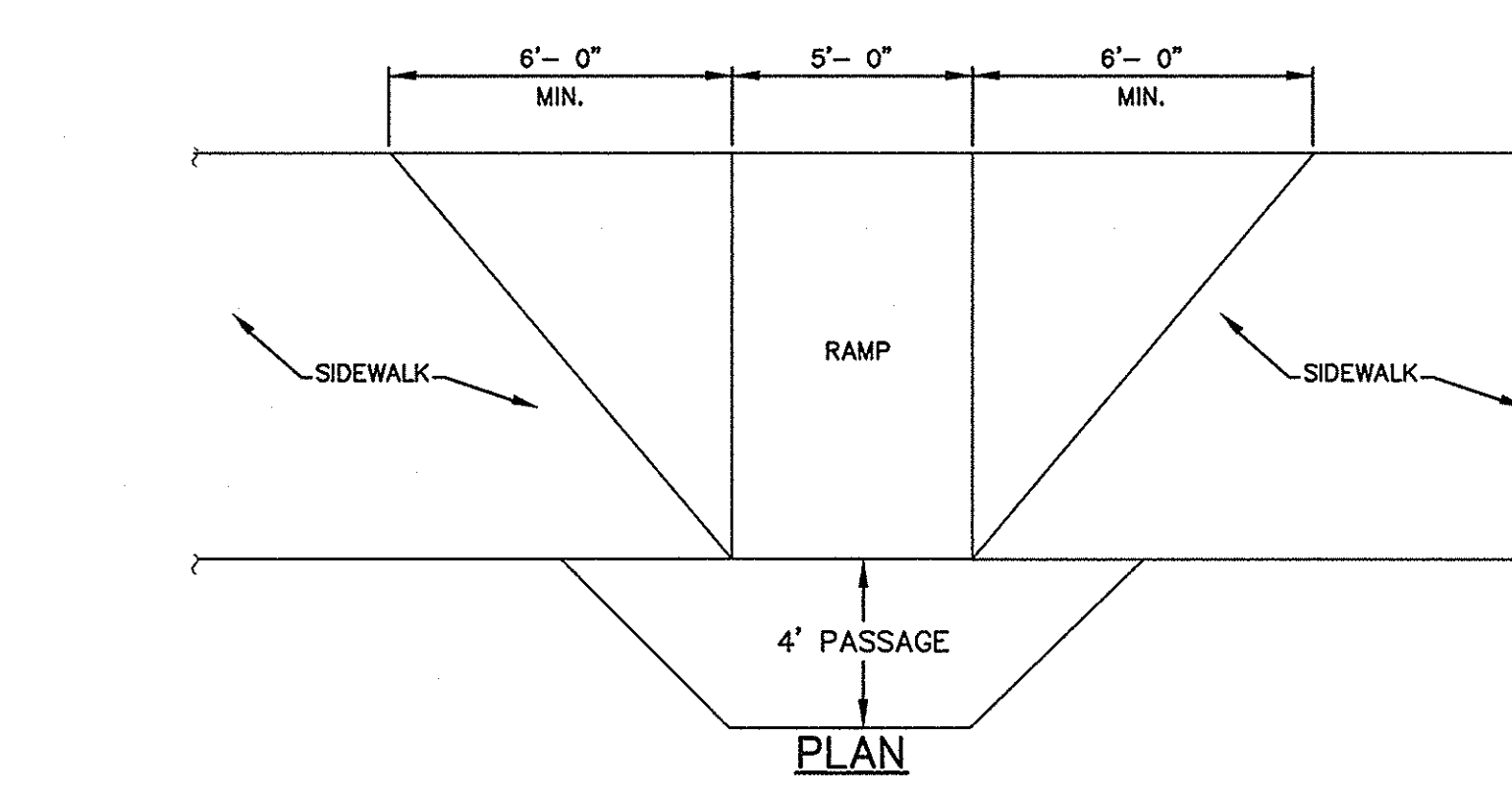
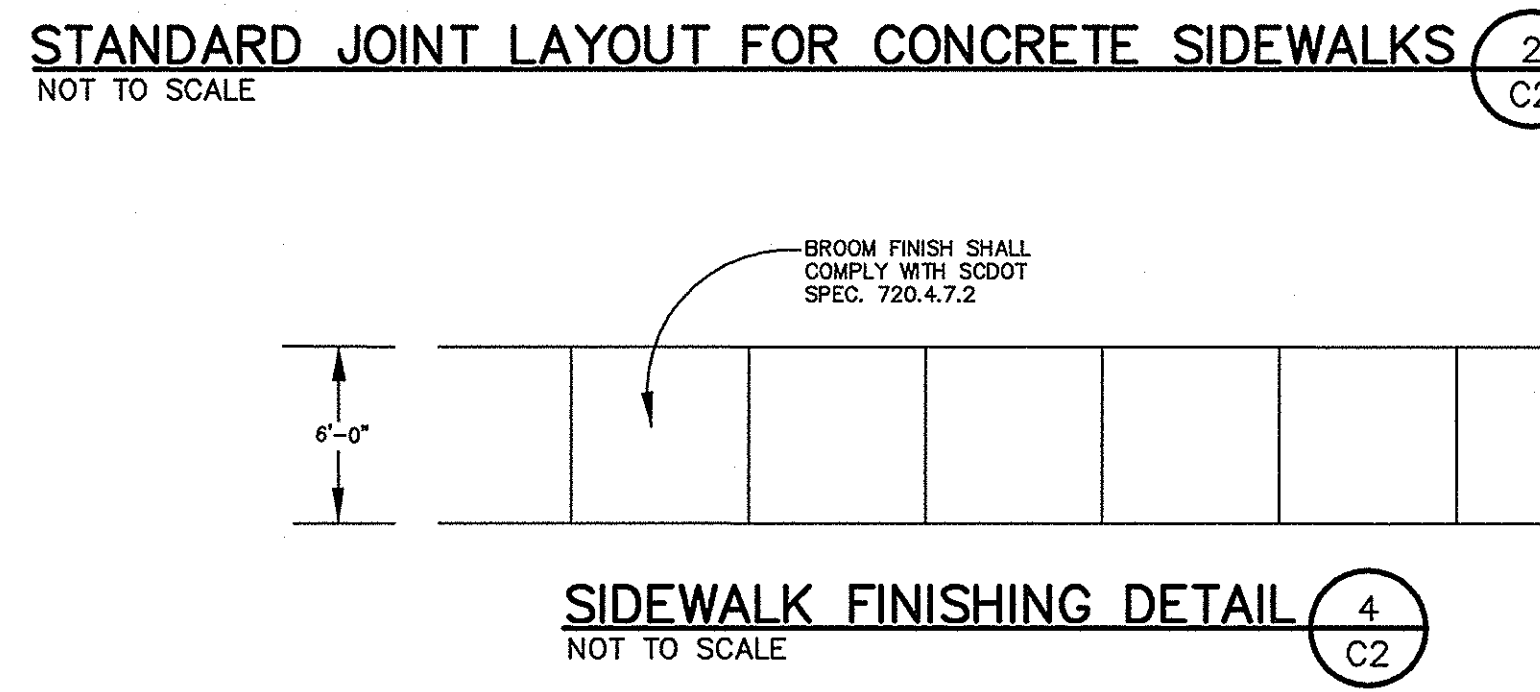
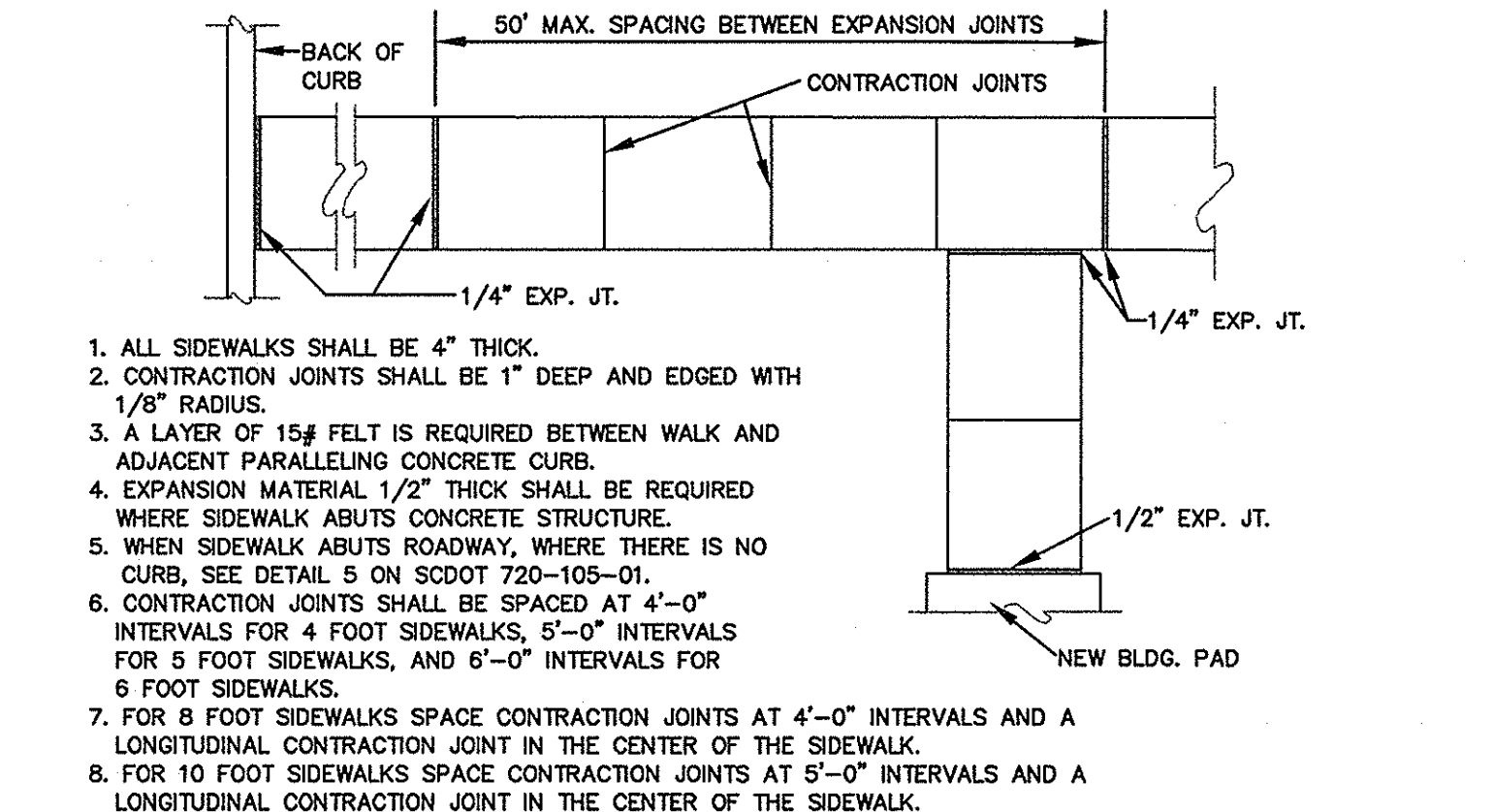
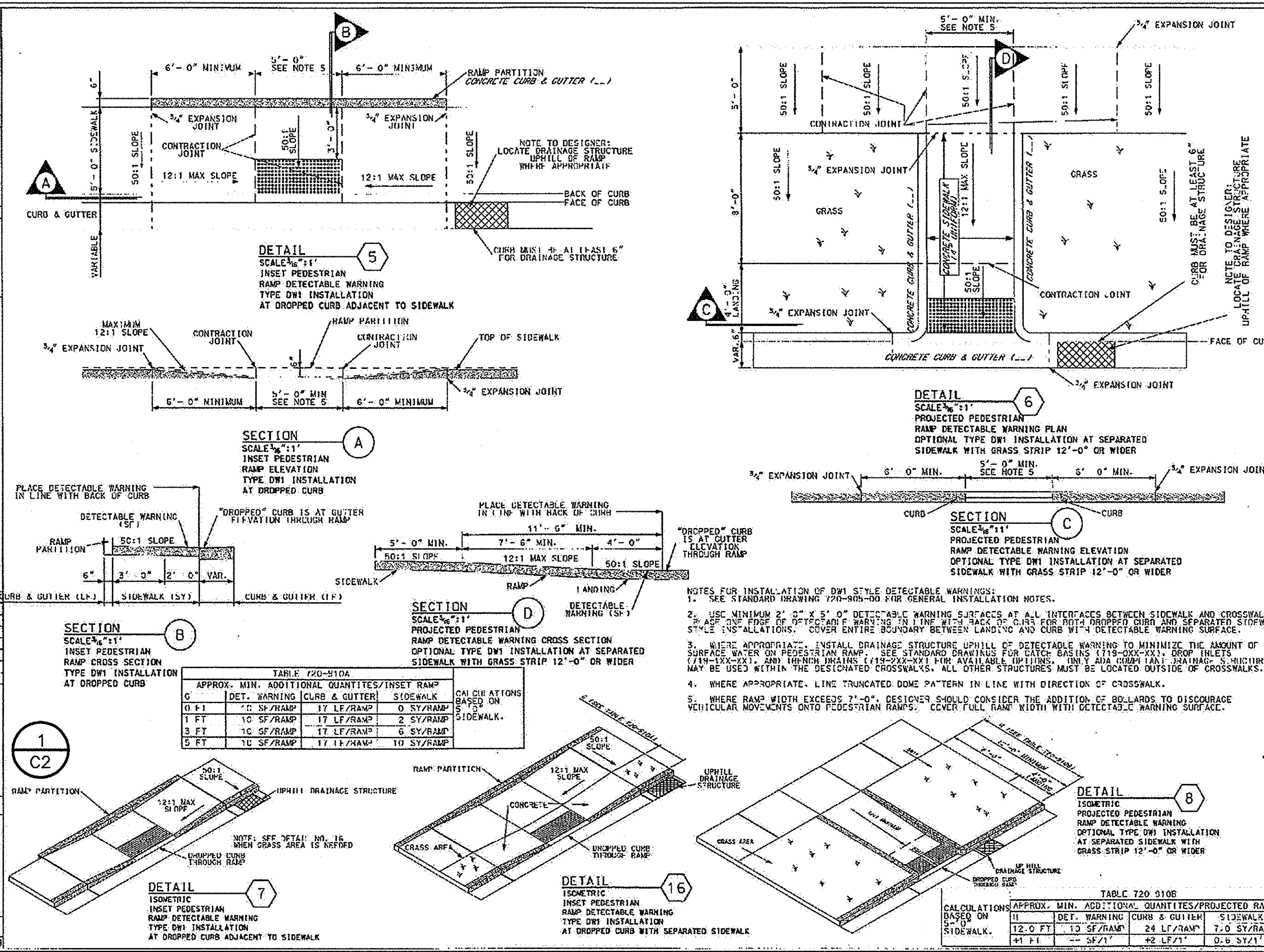
**LEGEND**

- INLET PROTECTION
- SILT FENCE
- STORM DRAINAGE
- SPOT ELEVATION
- PROPOSED CONTOUR
- EXISTING CONTOUR

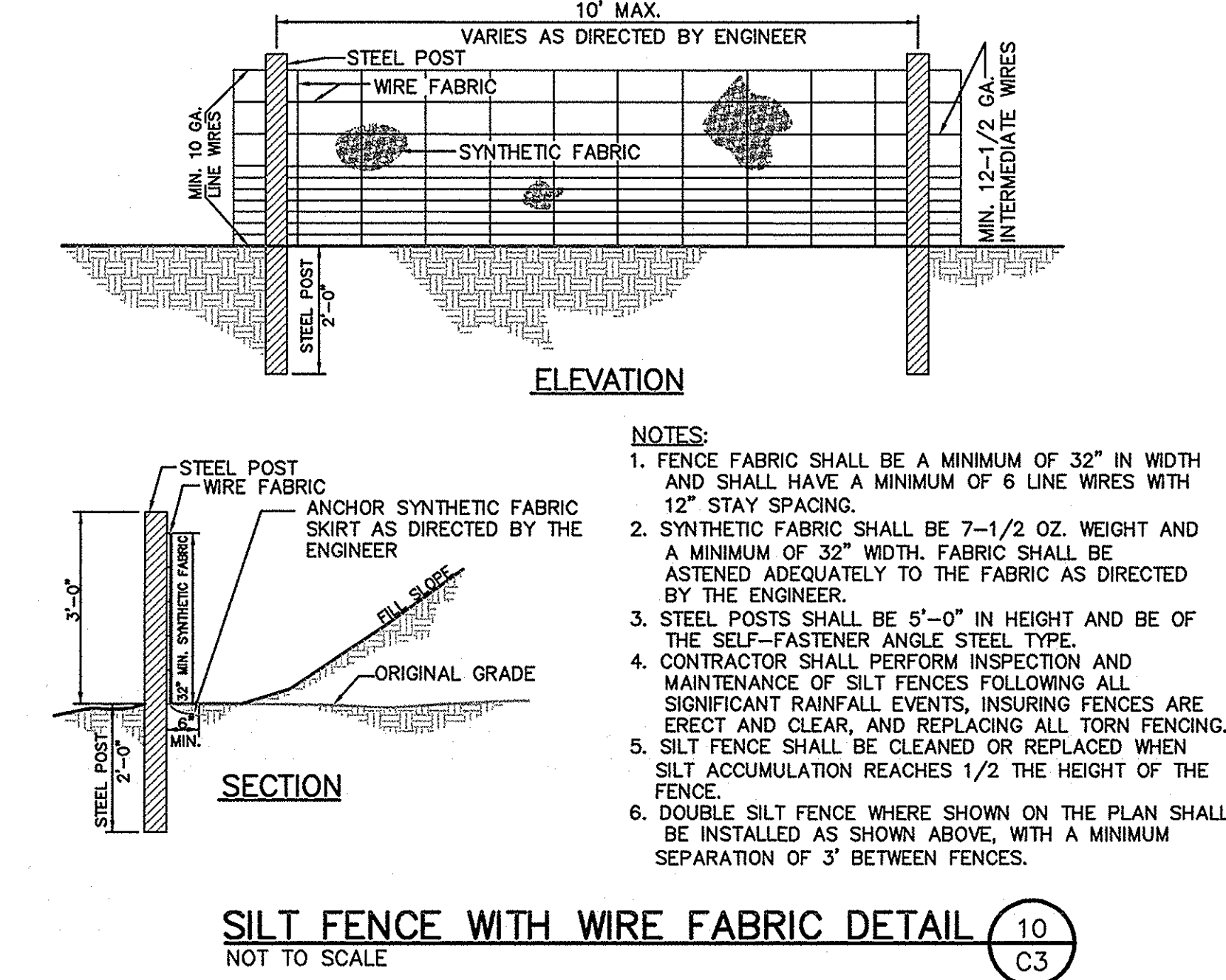
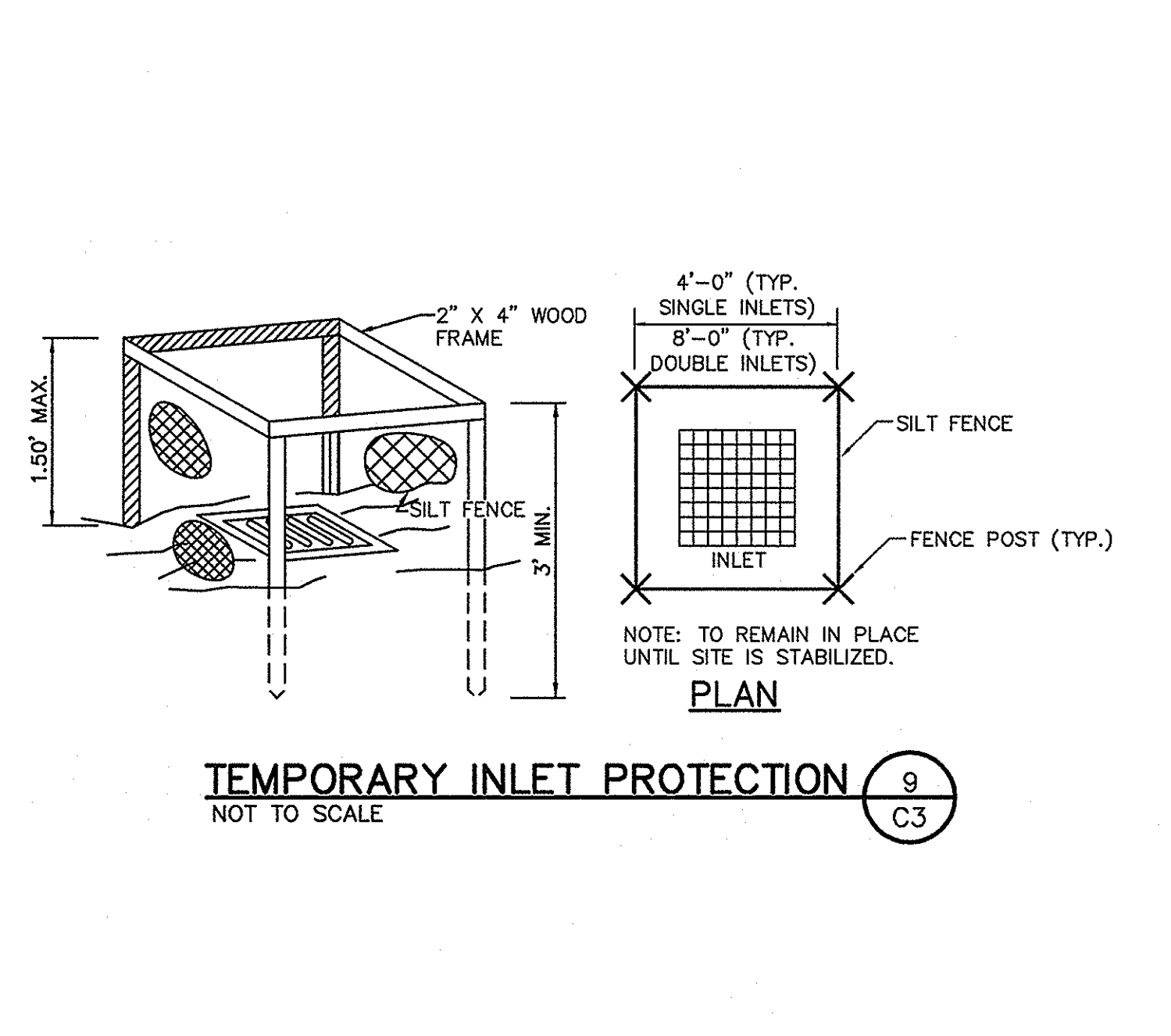
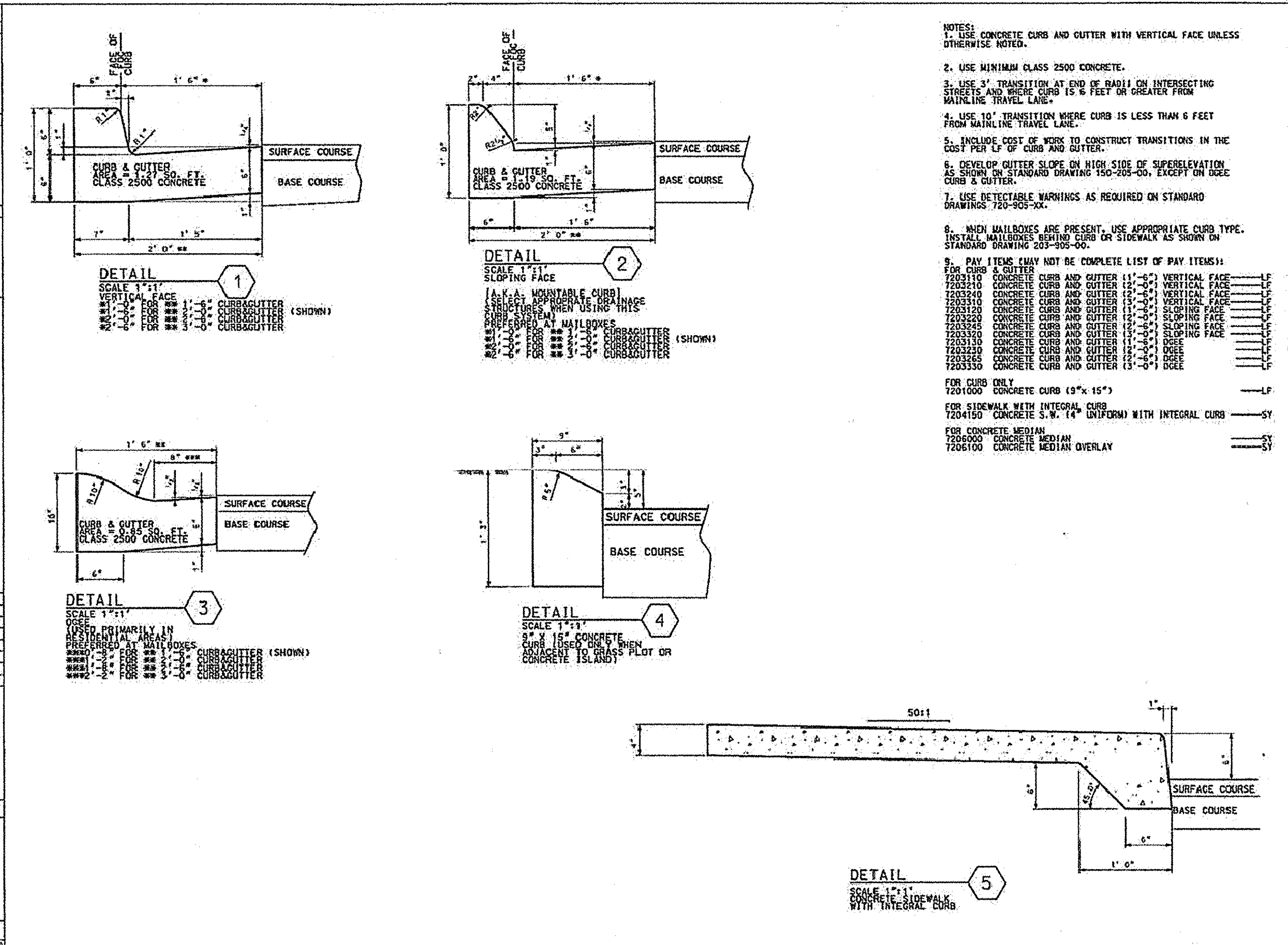
<b>PROJECT</b> PARKING, CURB AND SIDEWALK IMPROVEMENTS HEYWARD & MARION STREETS UNIVERSITY OF SOUTH CAROLINA <small>RICHLAND COUNTY, S.C.</small>		<b>SHEET</b> <b>C3</b> <small>OF</small> <b>4</b>																
<small>FILE NO. 35,927-889</small>		<small>DATE: MAY 21, 2012</small>																
<b>GRADING, STORM DRAINAGE AND EROSION CONTROL PLAN</b>																		
<b>URS</b> 101 Research Drive Columbia, South Carolina 29203 Telephone (803) 254-4400 • Fax (803) 771-6676 <small>www.urscorp.com</small>																		
<small>APPROVALS</small> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;"><small>PROJECT ENG.</small></td> <td style="width: 25%;"><small>DESIGNED BY:</small></td> <td style="width: 25%;"><small>DRAWN BY:</small></td> <td style="width: 25%;"><small>CHECKED BY:</small></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><small>PROJECT MGR.</small></td> <td><small>APP. BY:</small></td> <td><small>DATE:</small></td> <td></td> </tr> <tr> <td></td> <td></td> <td>6-11-12</td> <td></td> </tr> </table>			<small>PROJECT ENG.</small>	<small>DESIGNED BY:</small>	<small>DRAWN BY:</small>	<small>CHECKED BY:</small>					<small>PROJECT MGR.</small>	<small>APP. BY:</small>	<small>DATE:</small>				6-11-12	
<small>PROJECT ENG.</small>	<small>DESIGNED BY:</small>	<small>DRAWN BY:</small>	<small>CHECKED BY:</small>															
<small>PROJECT MGR.</small>	<small>APP. BY:</small>	<small>DATE:</small>																
		6-11-12																
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NO.	DESCRIPTION	DATE																



**REFERENCES**  
MEDIAN DIVIDERS  
REFER TO SPECIFICATIONS FOR ACCESSIBLE PUBLIC ROUTES OF 401, NOVEMBER 25, 2005  
SLOPE DIMENSIONS  
QUALIFIED PERMIT LIST 41  
RELATED DRAWINGS & REVISIONS  
100-700-00, 700-105-01  
PRECONSTRUCTION SUPPORT ENGINEER  
**SCDOT**  
DESIGN STANDARDS OFFICE  
955 PARK STREET  
COLUMBIA, SC 29201  
COLUMBIA, SC 29201  
DETECTABLE WARNINGS  
TYPE DW1  
INSTALLATION  
720-105-01  
EFFECTIVE DATE: JUNE 1, 2011



**REFERENCES**  
MEDIAN DIVIDERS  
REFER TO SPECIFICATIONS FOR ACCESSIBLE PUBLIC ROUTES OF 401, NOVEMBER 25, 2005  
SLOPE DIMENSIONS  
QUALIFIED PERMIT LIST 41  
RELATED DRAWINGS & REVISIONS  
100-700-00, 700-105-01  
PRECONSTRUCTION SUPPORT ENGINEER  
**SCDOT**  
DESIGN STANDARDS OFFICE  
955 PARK STREET  
COLUMBIA, SC 29201  
COLUMBIA, SC 29201  
STANDARD DRAWING  
CURB & GUTTER (CONCRETE)  
720-105-01  
EFFECTIVE DATE: JUNE 1, 2011



APPROVALS  
PROJECT ENG: [ ]  
DESIGNER: [ ]  
CHECKED BY: [ ]  
DATE: [ ]

NO. [ ]  
DESCRIPTION [ ]  
DATE [ ]

SCDOT  
DESIGN STANDARDS OFFICE  
COLUMBIA, SC 29201

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**PROJECT**  
PARKING, CURB AND SIDEWALK IMPROVEMENTS HEYWARD & MARION STREETS

**SHEET**  
C4 OF 4

**FOR**  
UNIVERSITY OF SOUTH CAROLINA  
RICHLAND COUNTY, S.C.

**SITE DETAILS**  
SCALE: AS NOTED  
DATE: MAY 21, 2012

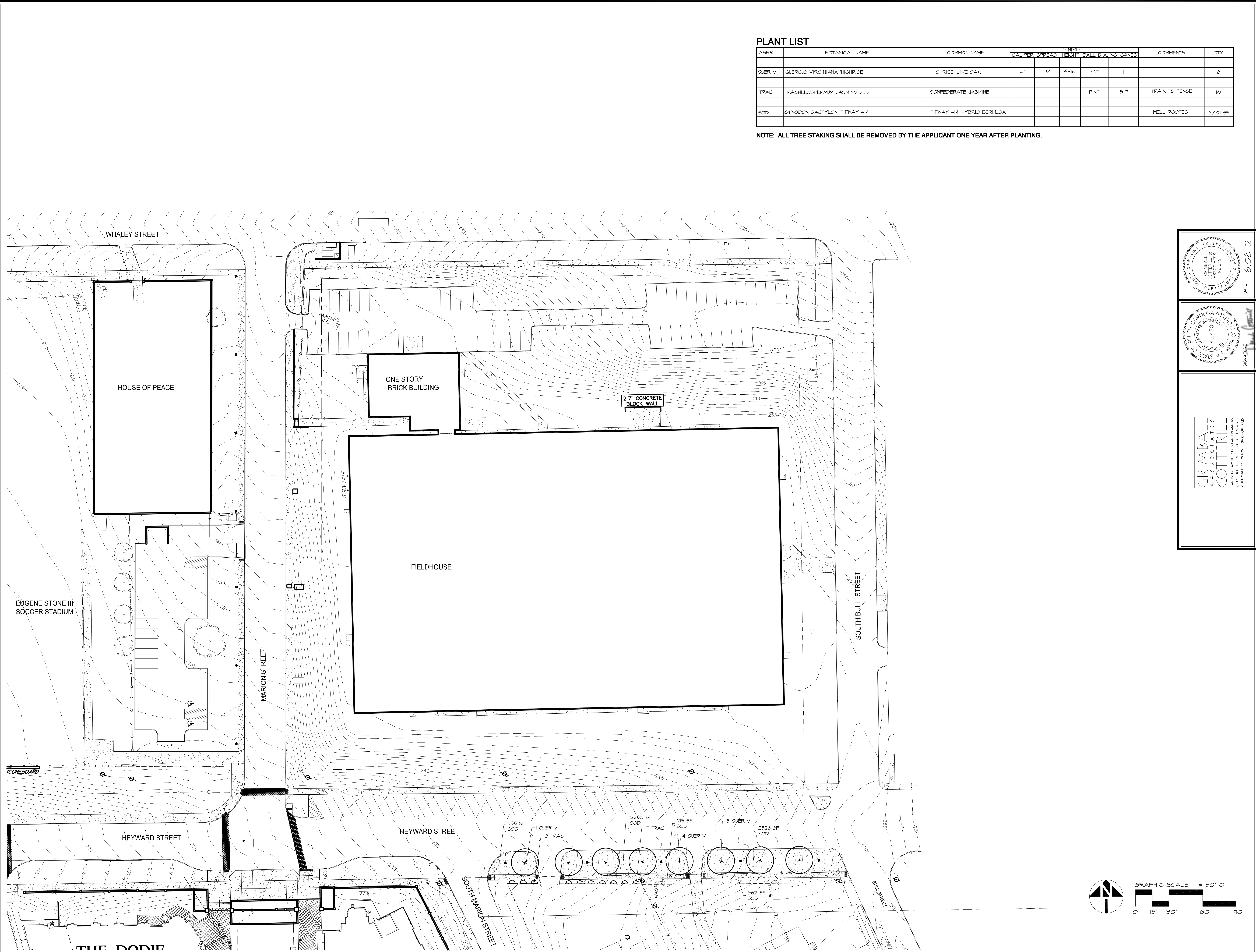
**PROJECT**  
PARKING, CURB AND SIDEWALK IMPROVEMENTS HEYWARD & MARION STREETS

**SHEET**  
C4 OF 4

**FOR**  
UNIVERSITY OF SOUTH CAROLINA  
RICHLAND COUNTY, S.C.



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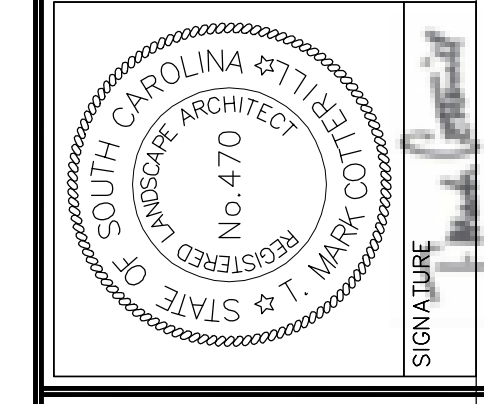
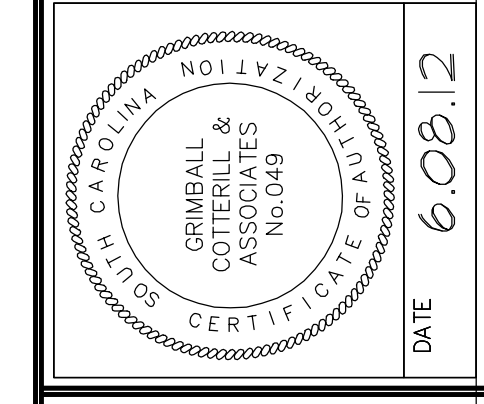
**PLANT LIST**

ABBR.	BOTANICAL NAME	COMMON NAME	MINIMUM			COMMENTS	QTY.		
			CALIPER	SPREAD	HEIGHT				
QUER V	QUERCUS VIRGINIANA 'HIGHRISE'	'HIGHRISE' LIVE OAK	4"	6'	14'-16'	32"	1		8
TRAC	TRACHELOSPERMUM JASMINOIDES	CONFEDERATE JASMINE				PINT	5-7	TRAIN TO FENCE	10
SOD	CYNODON DACTYLON 'TIFWAY 419'	'TIFWAY 419' HYBRID BERMUDA						WELL ROOTED	6,401 SF

**NOTE: ALL TREE STAKING SHALL BE REMOVED BY THE APPLICANT ONE YEAR AFTER PLANTING.**

NO.	DESCRIPTION	DATE	BY

PROJECT ENG:	DATE:	6.08.12
DESIGNED BY:	CAC:	
DRAWN BY:	EHM:	
CHECKED BY:	CCS:	
APPROVED:	CCS:	



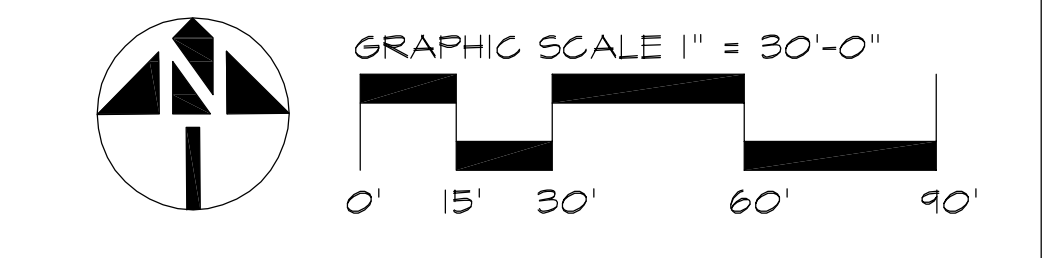
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 www.URS.com

**PLANTING PLAN**

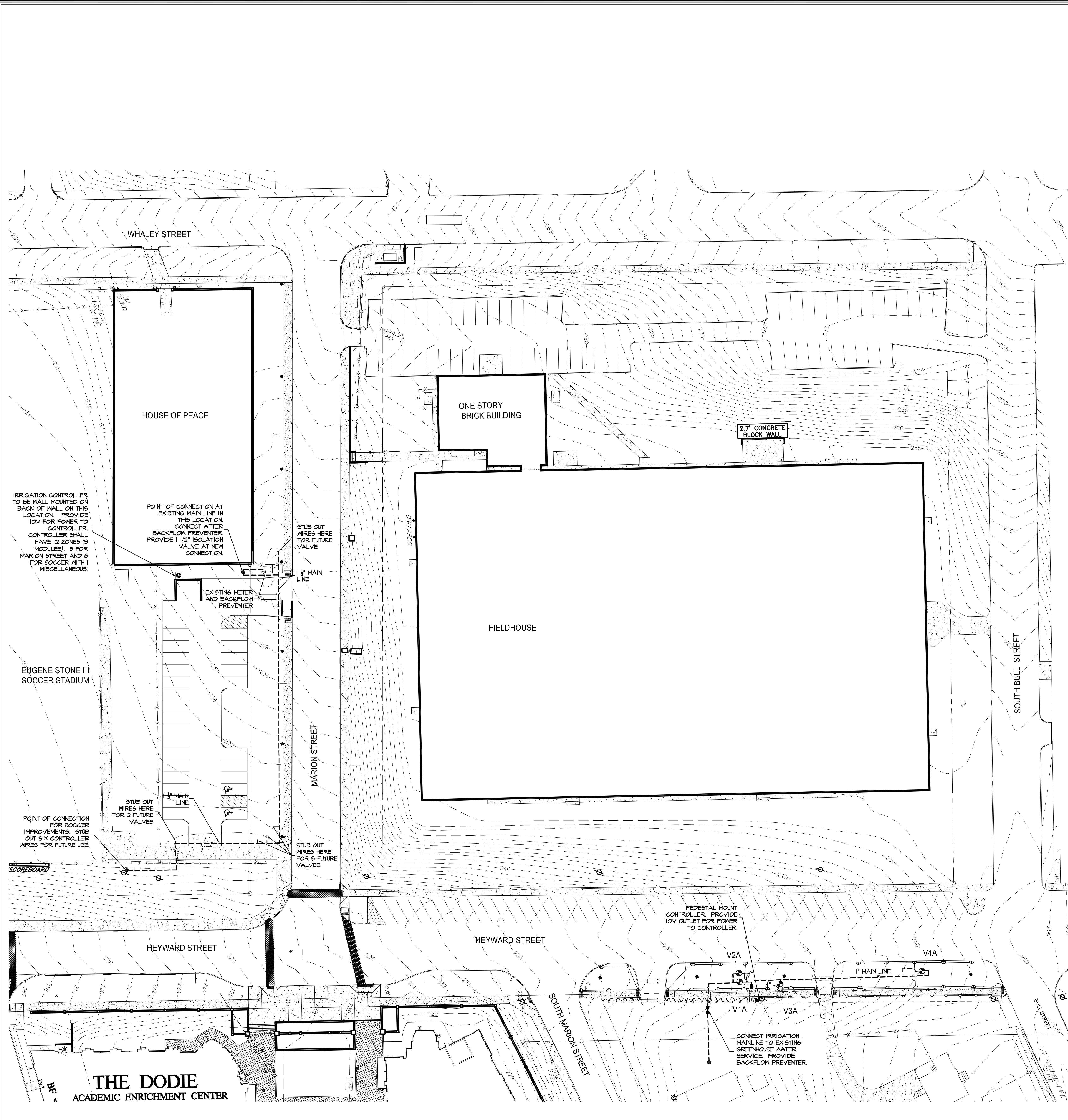
**PARKING, CURB AND SIDEWALK IMPROVEMENTS HEYWARD & MARION STREETS UNIVERSITY OF SOUTH CAROLINA**  
 IN THE CITY OF COLUMBIA RICHLAND COUNTY, S.C.

DWG NAME:	SHEET:
N.B. NO. 2103, 2039	L-1
REF. 34,357-B82	OF
PROJECT NO. 46422191	3
FILE NO. 35,927-B89	





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**IRRIGATION LEGEND**

- POINT OF CONNECTION
- Ⓢ RAINBIRD ESP-LXM CONTROLLER WITH NR2-RFC RAINFREEZE SENSOR
- Ⓢ 1" DOUBLE CHECK VALVE BACKFLOW PREVENTER
- Ⓢ RAINBIRD PSA-100 SERIES ELECTRIC VALVE
- Ⓢ XGZ-100-B-COM
- RAINBIRD SERIES POP-UP SPRAY HEAD
  - 100 ○ 10H
- Ⓢ MPROTATOR SERIES POP-UP ROTOR HEAD
- Ⓢ MP2000
- MAINLINE (SIZE AS NOTED)
- CLASS 160 OR 200 PVC PIPING (SIZE AS NOTED)
- Ⓢ RAINBIRD DRIP TUBING WITH RAIN-BUS EMITTERS
- Ⓢ 4" SCH. 40 PVC SLEEVING

**VALVE SCHEDULE**

VALVE	SIZE	TYPE	QPM
V1	1"	DRIP	3±
V2	1"	1804	12.35
V3	1"	1804	9.96
V4	1"	1804	12.62

**IRRIGATION NOTES**

1. ALL IRRIGATION TO BE AS SPECIFIED OR APPROVED EQUAL.
2. SYSTEM DESIGNED TO RUN AT 20 GPM WITH 65 PSI.
3. CONTRACTOR TO COORDINATE WITH OWNER CONCERNING IRRIGATION METER PRIOR TO COMMENCEMENT OF WORK SO AS NOT TO DELAY COMPLETION OF IRRIGATION.
4. CONTRACTOR SHALL PERFORM PRESSURE AND FLOW TESTS AT PROPOSED POINT OF CONNECTION PRIOR TO INSTALLATION TO VERIFY THAT ADEQUATE DESIGN CRITERIA IS PRESENT.
5. ADJUSTMENT OF SPRINKLER HEADS AND DRIP LINES WILL BE NECESSARY IN THE FIELD.
6. DRIP TUBE SYMBOLS AND IRRIGATION PIPING LAYOUT PROVIDED FOR GENERAL LOCATIONS IN THE FIELD ONLY, SYMBOLS DO NOT NECESSARILY PORTRAY AN ACCURATE QUANTITY. THE DESIGN INTENT IS TO PROVIDE 100% HEAD TO HEAD COVERAGE. IF THIS CANNOT BE ACHIEVED, NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY.
7. UTILIZE EMITTER DISTRIBUTION TUBING AS DETAILED.
8. INSTALL AUTO FLUSH VALVES ON DRIP TUBE AT ENDS AS NEEDED TO DRAIN DRIP TUBE AFTER EACH USE.
9. ALL DRIP TUBE TO BE INSTALLED UNDER MULCH.
10. WHERE IRRIGATION PIPING CROSSES SIDEWALKS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING A SLEEVE 2 SIZES LARGER THAN THE CROSSING PIPE.
11. IRRIGATION CONTRACTOR TO ADJUST SPRAY PATTERNS TO SURROUNDING PLANT BEDS. OVERSPRAY ONTO BUILDINGS AND SIDE WALKS SHALL BE AVOIDED AS MUCH AS POSSIBLE.

DATE: 6.08.12

DATE: 6.08.12

DATE: 6.08.12

DATE: 6.08.12

DATE: 6.08.12

DATE: 6.08.12

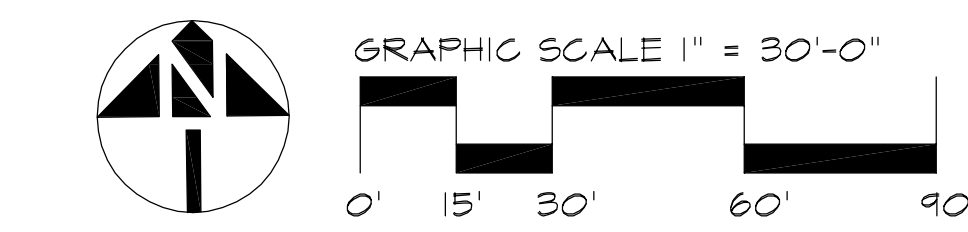
DATE: 6.08.12

DATE: 6.08.12

DATE: 6.08.12

DATE: 6.08.12

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101 Research Drive  
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<p>PROJECT: PARKING, CURB AND SIDEWALK IMPROVEMENTS HEYWARD &amp; MARION STREETS UNIVERSITY OF SOUTH CAROLINA</p> <p>IN THE CITY OF COLUMBIA RICHLAND COUNTY, S.C.</p> <p>DATE: MAY 21, 2012 SCALE: 1"=30'</p>	<p style="text-align: center;"><b>IRRIGATION PLAN</b></p> <p style="text-align: center;">SHEET L-2 OF 3</p> <p>PROJECT NO. 46422191</p> <p>FILE NO. 35,927-B89</p>
<p>DWG NAME: 2103_2039</p> <p>REF: 34,357-B82</p> <p>PROJECT NO. 46422191</p>	<p>SHEET L-2 OF 3</p> <p>PROJECT NO. 46422191</p>



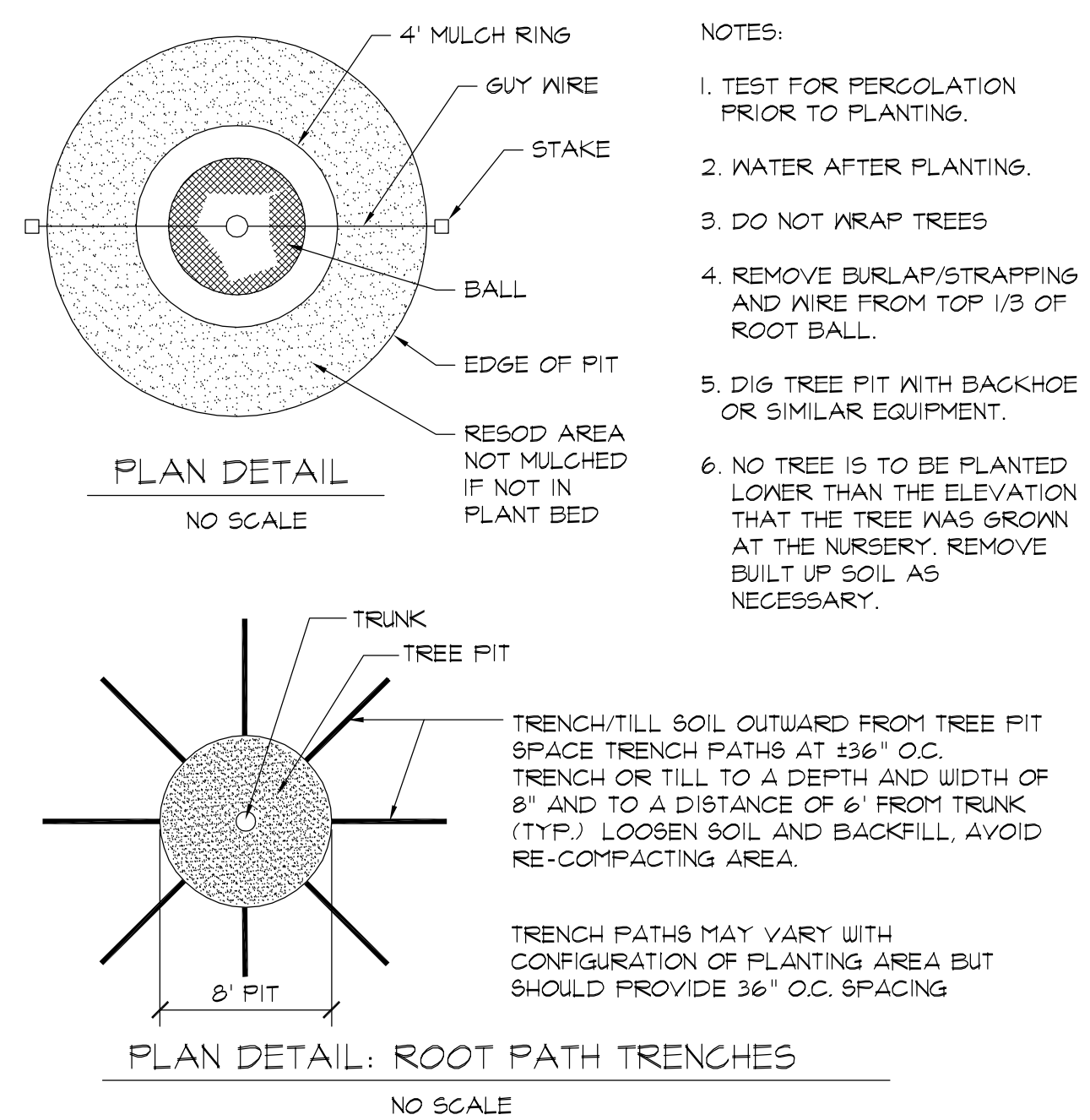
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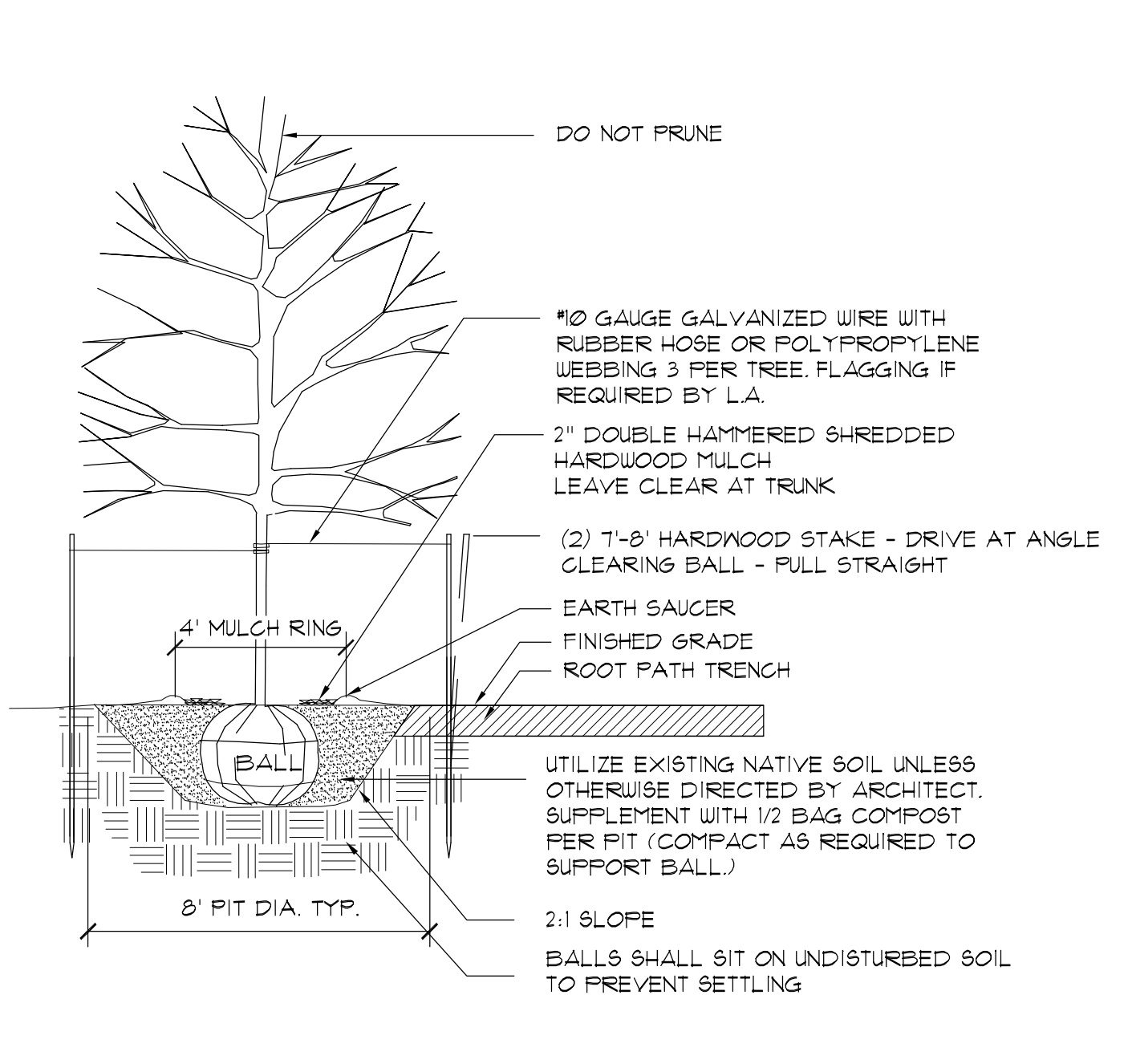
DESIGNED AND DRAWN BY: URS CORP. PROJECT NO. 2103-2039 DATE: 6/20/12

CHECKED BY: J. H. B. PROJECT NO. 2103-2039 DATE: 6/20/12

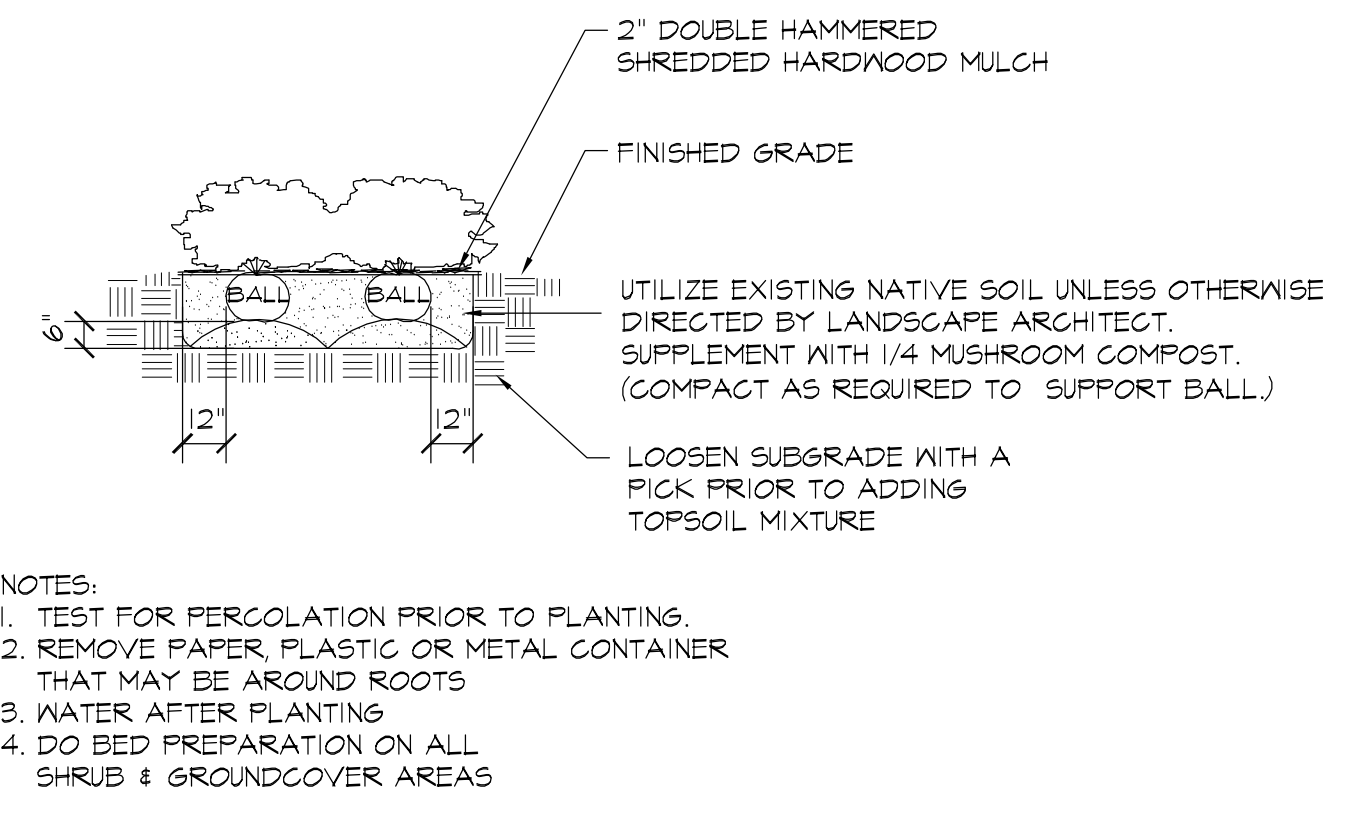
APPROVED BY: J. H. B. PROJECT NO. 2103-2039 DATE: 6/20/12



**A TREE PLANTING AND STAKING**  
SECTION  
L-3 NOT TO SCALE

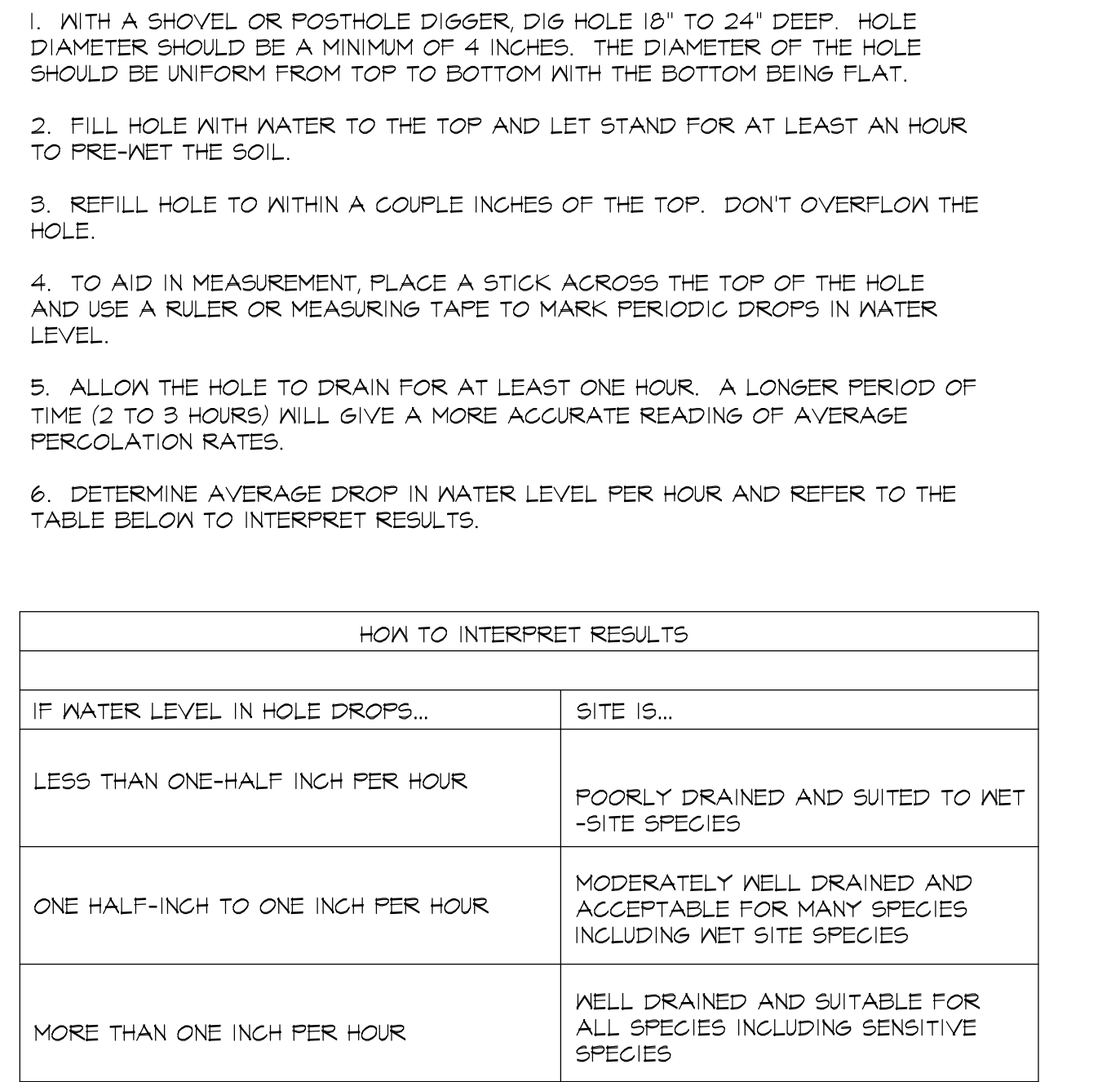


**B SHRUB PLANTING**  
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L-3 NOT TO SCALE

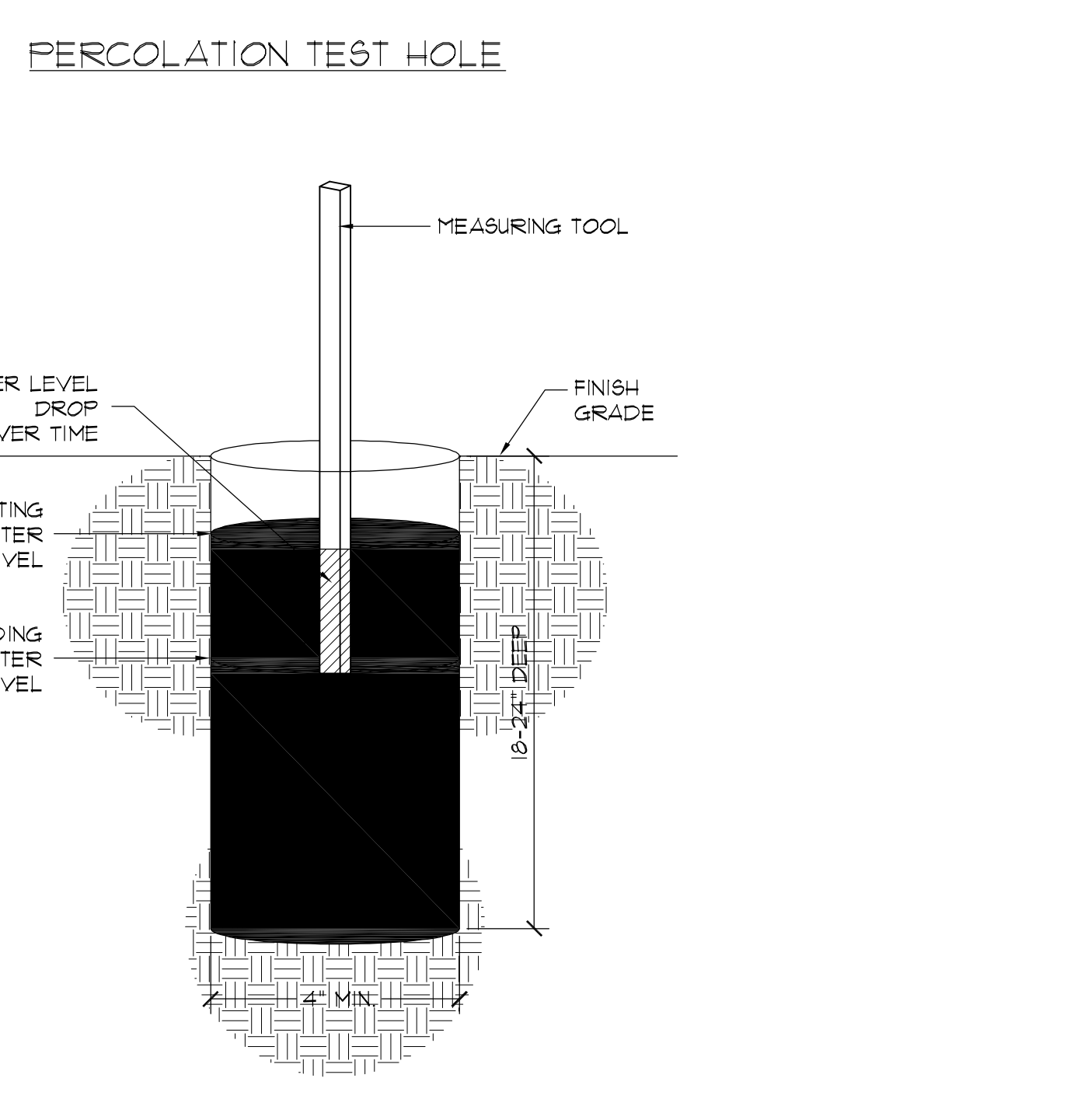


**C TYPICAL GROUNDCOVER PLANTING**  
SECTION  
L-3 NOT TO SCALE

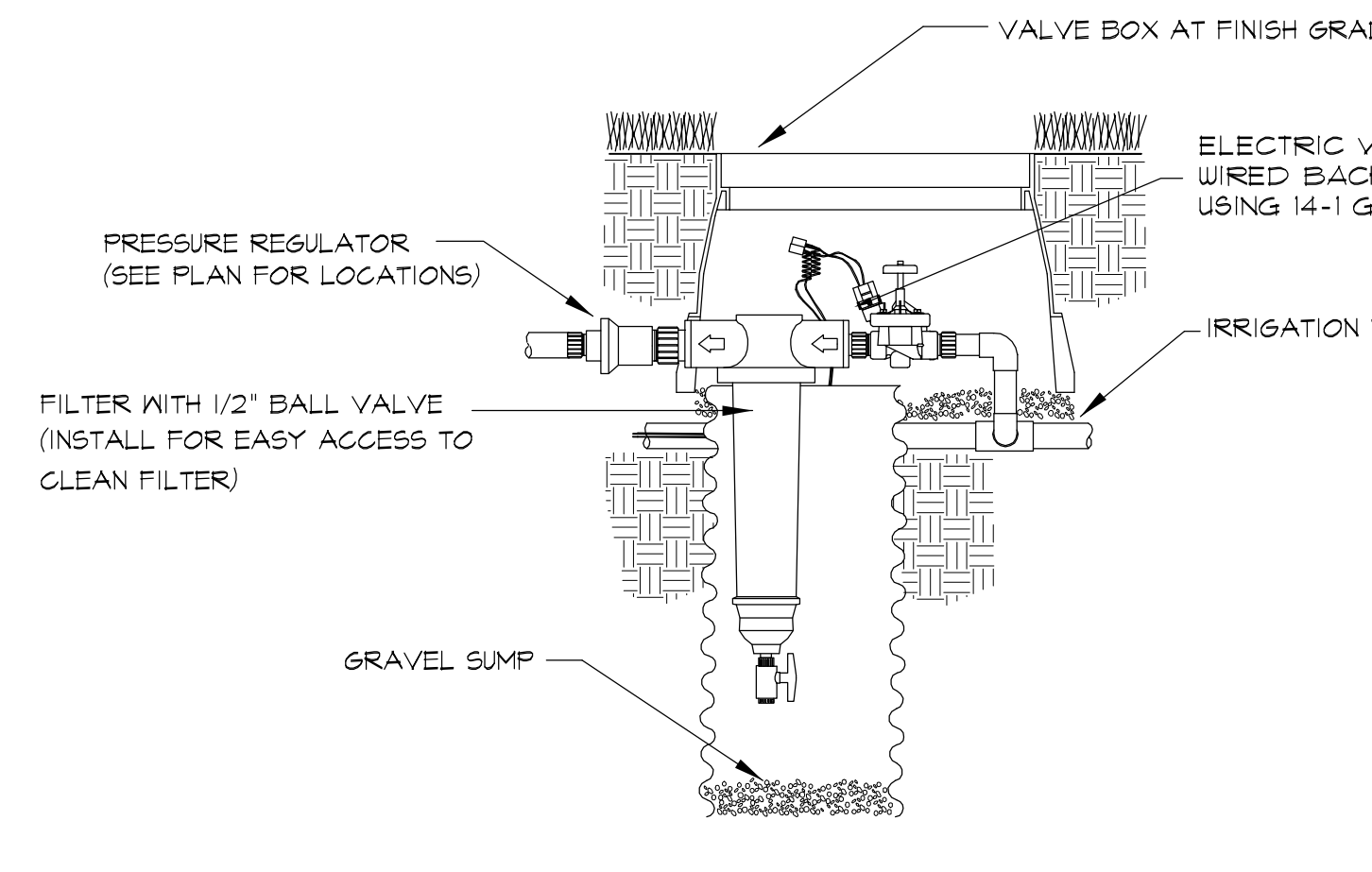
**INSTRUCTIONS FOR PERFORMING A PERCOLATION TEST**



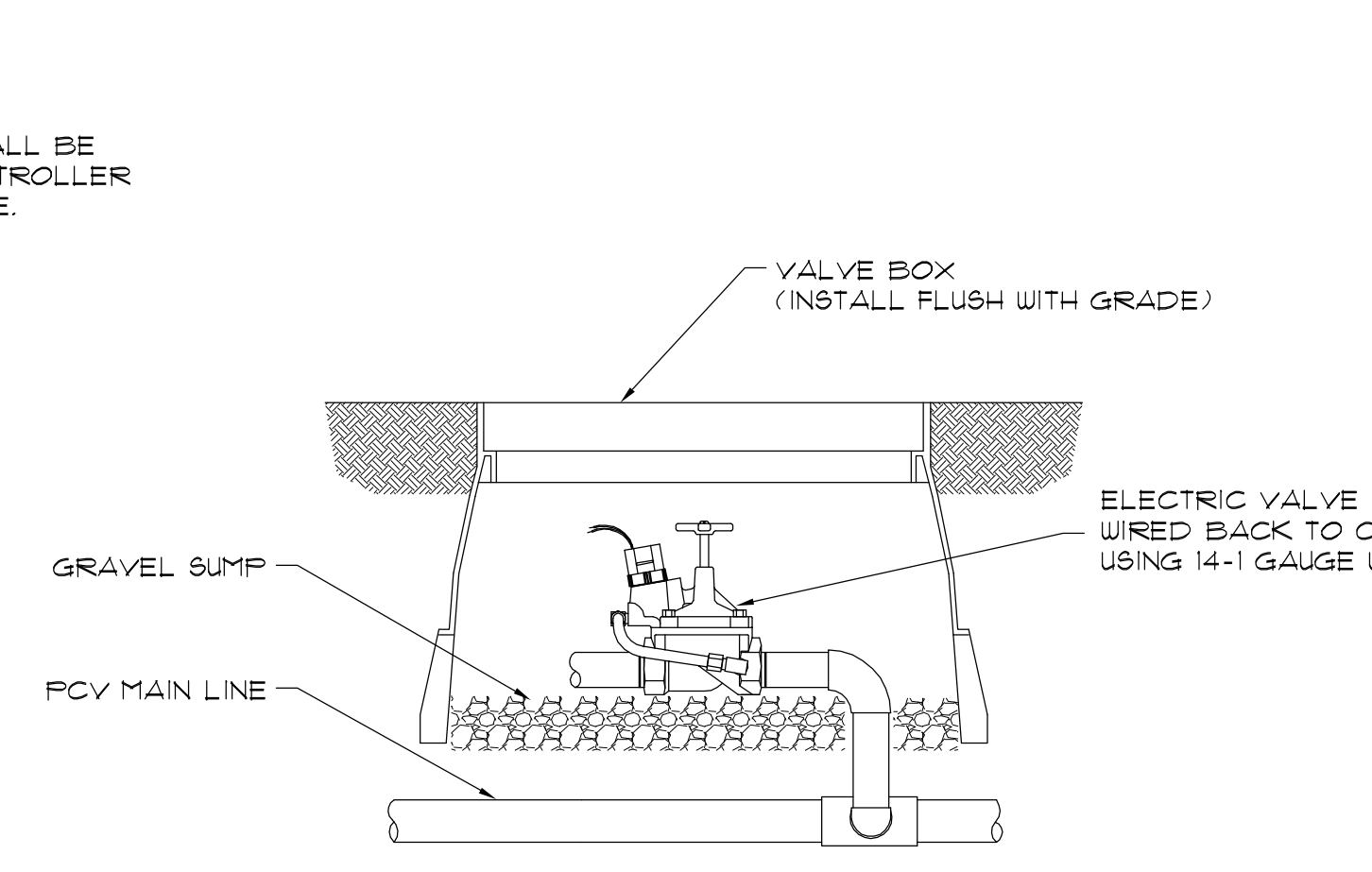
**D PERCOLATION TEST**  
ISOMETRIC  
L-3 NOT TO SCALE



**E BACKFLOW PREVENTER**  
SECTION  
L-3 NOT TO SCALE



**F ELECTRIC VALVE-DRIP ZONE**  
SECTION  
L-3 NOT TO SCALE



**G ELECTRIC VALVE**  
SECTION  
L-3 NOT TO SCALE

**IRRIGATION NOTES**

1. ALL PLASTIC PIPE FITTINGS TO BE MINIMUM SCHEDULE 40 PVC.
2. ALL MAIN LINES TO BE SCHEDULE 40 PVC OR SCHEDULE 200 PVC.
3. ALL LATERAL LINES TO BE SCHEDULE 200 PVC OR SCHEDULE 160 PVC.
4. COORDINATE WITH GENERAL CONTRACTOR FOR INSTALLATION OF SCHEDULE 40 PVC PIPE UNDER PAVED SURFACES AS NOTED ON THE DRAWINGS TO BE UTILIZED FOR IRRIGATION SLEEVINGS. THE LOCATION OF SLEEVING IS MARKED ON THE IRRIGATION PLAN. DEVIATIONS MAY OCCUR DURING CONSTRUCTION.
5. TRENCHES FOR PVC PIPE MAINLINES SHALL BE EXCAVATED TO SUFFICIENT DEPTH OF 18\"/>
- 6. ALL CONTROL VALVES SHALL BE INSTALLED IN A VALVE BOX IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- 7. ALL WIRING TO BE USED FOR CONNECTING THE AUTOMATIC REMOTE CONTROL VALVE TO THE AUTOMATIC CONTROLLERS SHALL BE TYPE "UF", 14-1 STRANDED OR SOLID COPPER, SINGLE CONDUCTION WIRE WITH PVC INSULATION AND BEAR UL APPROVAL FOR DIRECT UNDERGROUND BURIAL FEEDER CABLE. WIRE CONNECTIONS TO REMOTE CONTROL ELECTRIC VALVES AND SPLICES OF WIRE IN THE FIELD SHALL BE PEN-TITE WIRE CONNECTORS OR APPROVED EQUAL AND SCALING GEMT.
- 8. THE IRRIGATION CONTRACTOR SHALL CONNECT ALL VALVE WIRING TO A SPECIFIED CONTROLLER LOCATED AS NOTED ON THIS PLAN.
- 9. ALL CONTROL VALVE CABLES SHALL BE INSTALLED BY DIRECT BURIAL AT A MINIMUM DEPTH OF 12\"/>
- 10. AFTER COMPLETION OF THE PIPING INSTALLATION, THE CONTRACTOR SHALL FURNISH AN "AS-BUILT" DRAWING SHOWING ALL SPRINKLER HEADS, VALVES, DRAINS AND PIPE LINES TO SCALE WITH DIMENSIONS WHERE REQUIRED. INSTRUCTION SHEETS AND PARTS LISTS COVERING ALL OPERATING EQUIPMENT WILL BE BOUND INTO A FOLDER AND FURNISHED TO THE OWNER IN DUPLICATE.
- 11. FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK PERFORMED UNDER THIS CONTRACT, THE CONTRACTOR SHALL PROMPTLY FURNISH WITHOUT COST TO THE OWNER ANY AND ALL PARTS AND LABOR WHICH PROVE DEFECTIVE IN MATERIAL OR WORKMANSHIP.
- 12. DURING THE LAST MONTH OF THE GUARANTEE PERIOD, THE LANDSCAPE ARCHITECT AND CONTRACTOR SHALL INSPECT THE INSTALLATION TO DETERMINE THE CONDITION OF THE COMPLETE SYSTEM. A LIST OF DEFECTIVE MATERIALS OR INSTALLATIONS TO BE REPLACED SHALL BE MADE BY THE CONTRACTOR WITHIN THIRTY DAYS OF RECEIVING WRITTEN NOTIFICATION. REPLACED MATERIALS AND INSTALLATION SHALL BE IN ACCORD WITH THESE SPECIFICATIONS, DRAWINGS AND OR SCHEDULES.

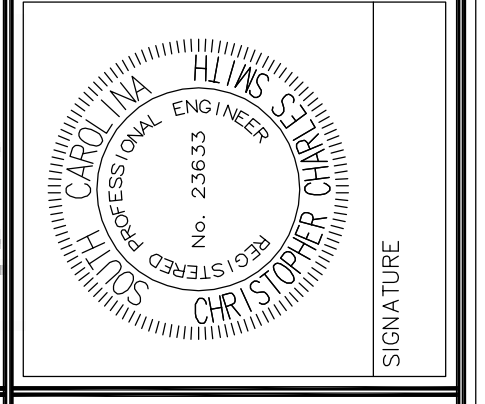
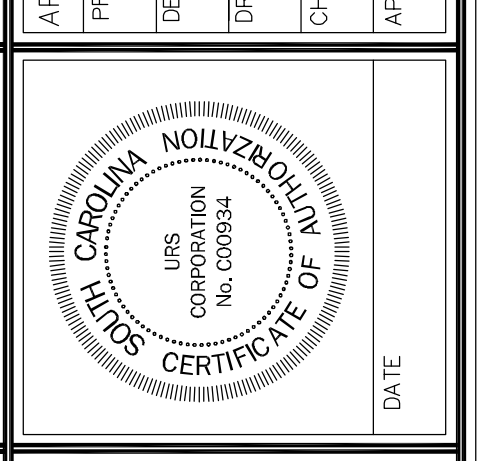
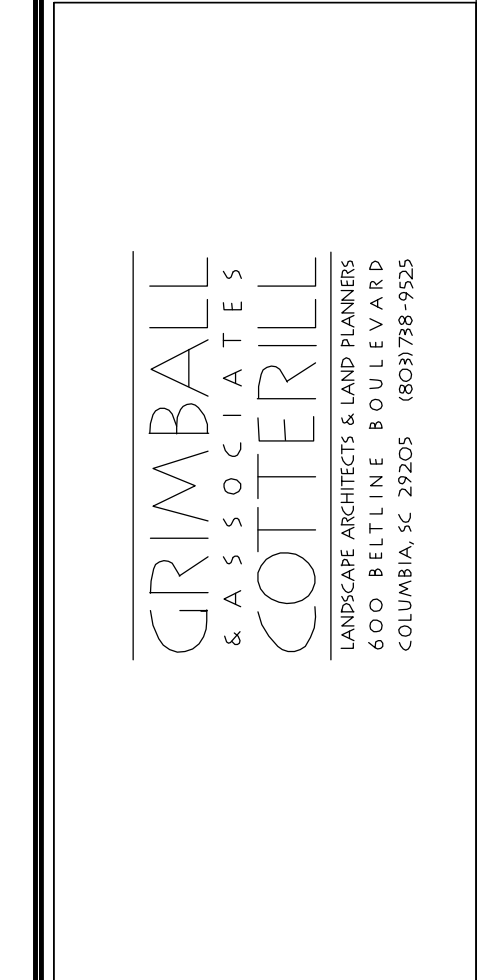
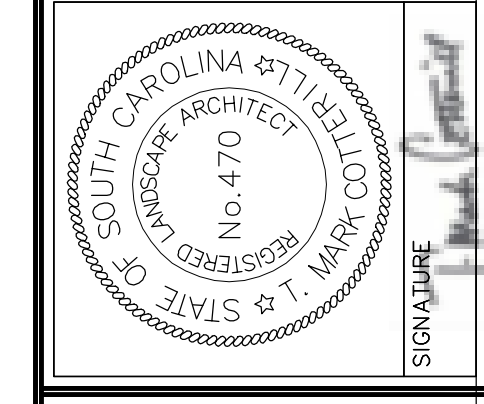
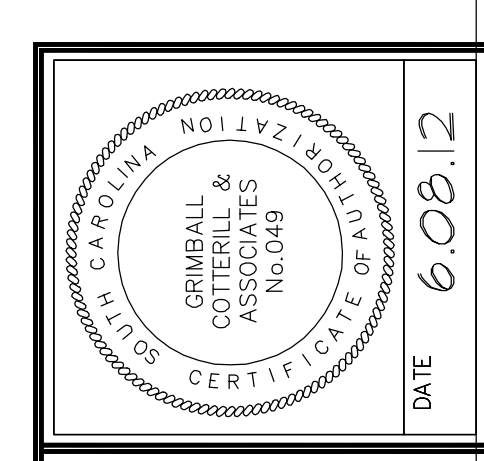
**H POP-UP SPRAY SPRINKLER**  
SECTION  
L-3 NOT TO SCALE

**I DRIPLINE IN SHRUBS**  
PLAN  
L-3 NOT TO SCALE

**J DRIPLINE IN GROUNDCOVER**  
PLAN  
L-3 NOT TO SCALE

**PLANTING NOTES**

1. PLANTS LABELED NIC ARE NOT IN CONTRACT AND ARE NOT A PART OF THIS PHASE OF WORK.
2. REQUIREMENTS FOR THE MEASUREMENTS, BRANCHING, GRADING, QUALITY, BALLING AND BURLAPPING OF PLANTS IN THE PLANT LIST GENERALLY FOLLOWS OR EXCEEDS A CODE OF STANDARDS CURRENTLY RECOMMENDED BY THE AMERICAN ASSOCIATION OF NURSERMEN, INC. IN THE AMERICAN STANDARD FOR NURSERY STOCKS. SEE THE PLANT LIST FOR MORE RESTRICTIVE REQUIREMENTS.
3. ALL PLANTS SHALL HAVE A WELL FORMED HEAD WITH MINIMUM CALIPER HEIGHT AND SPREAD OF THE SIDE BRANCHES AS SHOWN ON THE PLANT LIST. TRUNKS SHALL BE UN Damaged AND SHAPE SHALL BE TYPICAL OF THE SPECIES.
4. MEASUREMENT OF CONIFER HEIGHT SHALL INCLUDE NOT MORE THAN FIFTY (50) PER CENT OF THIS YEAR'S VERTICAL GROWTH (TOP CANDLE).
5. THE LANDSCAPE CONTRACTOR IS HEREBY NOTIFIED OF THE EXISTENCE OF UNDERGROUND UTILITIES WITHIN THE LIMITS OF THE PROJECT AREA. THE CONTRACTOR SHOULD VERIFY THE EXACT LOCATION OF ALL UTILITY LINES PRIOR TO COMMENCEMENT OF DIGGING OPERATIONS.
6. THE CONTRACTOR WILL BE RESPONSIBLE FOR STAKING AND LAYOUT OF PLANTINGS ON THIS PROJECT. THE LANDSCAPE ARCHITECT OR OWNER SHALL BE ADVISED WHEN STAKES ARE READY FOR INSPECTION ON VARIOUS PLANTING AREAS. ALL LAYOUT WORK SHALL BE INSPECTED AND APPROVED BY THE LANDSCAPE ARCHITECT AND OWNER PRIOR TO OPENING ANY PLANTING PITS.
7. IT IS THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO VERIFY THAT EACH EXCAVATED TREE OR SHRUB PIT WILL PERCOLATE (DRAIN) PRIOR TO ADDING TOPSOIL AND INSTALLING TREES OR SHRUBS. THE CONTRACTOR SHALL DO PERCOLATION TEST AS DETAILED ON DETAIL HL-102. THE OWNER OR LANDSCAPE ARCHITECT SHALL VERIFY ACCURACY AND EFFECT OF PERCOLATION TESTS. IF THE SOIL AT GIVEN AREA DOES NOT DRAIN PROPERLY, A PVC DRAIN OR GRAVEL SUMP SHALL BE INSTALLED OR THE PLANTINGS RELOCATED.
8. SHOULD THE LANDSCAPE CONTRACTOR ENCOUNTER UNSATISFACTORY SURFACE OR SUBSURFACE DRAINAGE CONDITIONS, SOIL DEPTH, LATENT SOILS, HARD PANS, STEAM OR OTHER UTILITY LINES OR OTHER CONDITIONS THAT WILL JEOPARDIZE THE HEALTH AND VIGOR OF THE PLANTS, HE MUST ADVISE THE LANDSCAPE ARCHITECT IN WRITING OF THE CONDITIONS PRIOR TO INSTALLING THE PLANTS. OTHERWISE THE LANDSCAPE CONTRACTOR WARRANTS THAT THE PLANTING AREAS ARE SUITABLE FOR PROPER GROWTH AND DEVELOPMENT OF THE PLANTS TO BE INSTALLED.
9. PLANTING PITS FOR TREE AND SHRUBS SHALL BE PREPARED AS PER DETAILS.
10. DOUBLE HAMMERED SHREDDED HARDWOOD MULCH SHALL BE APPLIED TO ALL SHRUB BEDS BY THE CONTRACTOR. BEDS SHALL BE TREATED WITH PREEMERGENT HERBICIDE BY THE CONTRACTOR BEFORE MULCH IS APPLIED. SHREDDED HARDWOOD MULCH SHALL BE TWO INCHES DEEP. A SAMPLE OF SHREDDED HARDWOOD MULCH SHALL BE PRESENTED TO THE LANDSCAPE ARCHITECT FOR APPROVAL.
11. ALL TREES ARE TO BE STAKED IMMEDIATELY AFTER PLANTING AS DETAILED. CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF STAKING HOSES, ETC. AT THE END OF THE ONE YEAR GUARANTEE PERIOD.
12. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING UP THE SITE AT THE COMPLETION OF THE PROJECT AND SHALL MAINTAIN THE SITE IN A REASONABLY NEAT AND CLEAN STATE THROUGHOUT THE INSTALLATION PROCESS. STREETS AND PAVED AREAS SHALL BE CLEANED REGULARLY TO REMOVE CONSTRUCTION MATERIALS AND OTHER DEBRIS RESULTING FROM WORK OF THE PROJECT.
13. PLANTS SHALL BE GUARANTEED FOR THE DURATION OF ONE (1) FULL YEAR AFTER THE FINAL ACCEPTANCE OF THE PLANTING BY THE OWNER AND SHALL BE ALIVE AND IN SATISFACTORY GROWTH AT THE END OF THE GUARANTEE PERIOD. ANY PLANT NOT IN A HEALTHY AND VIGOROUS STATE AT THE END OF THE GUARANTEE PERIOD SHALL BE REPLACED AT NO COST TO THE OWNER. PLANTS SEVERELY DAMAGED BY VANDALS ARE NOT SUBJECT TO REPLACEMENT BY THE CONTRACTOR DURING THE ONE YEAR GUARANTEE PERIOD.
14. REPLACEMENTS OF DEAD OR UNSATISFACTORY MATERIAL SHALL BE MADE AS SPECIFIED IN THE PLANT LIST. THE OWNER OR LANDSCAPE ARCHITECT SHALL INSPECT REPLACED PLANTS WHEN ALL REPLACEMENTS HAVE BEEN MADE. REPLACEMENTS ARE TO BE ALIVE AND IN A HEALTHY CONDITION WHEN THE REPLACEMENTS ARE COMPLETE, AND SHALL BE SUBJECT TO A ONE (1) YEAR GUARANTEE FROM THE DATE OF SATISFACTORY REPLACEMENT.
15. SHOULD THE CONTRACTOR NOT MAKE REPLACEMENTS IN A SATISFACTORY AND TIMELY FASHION IN ACCORD WITH THE PLANTING NOTES, THE OWNER, AFTER PROPER NOTIFICATION TO THE CONTRACTOR MAY UTILIZE THE FUNDS OF THE RETAINAGE TO HAVE THE REPLACEMENTS MADE IN ACCORD WITH THE SPECIFICATIONS BY ANOTHER CONTRACTOR.
16. NO EXCAVATION OR PLANTING PIT SHALL BE LEFT OPEN OR UNATTENDED OVERNIGHT.
17. PLANT MATERIAL QUANTITIES PROVIDED IN THE PLANT LIST ARE FOR REFERENCE ONLY AND THE CONTRACTOR IS RESPONSIBLE FOR THE ACTUAL PLANT MATERIAL COUNTS. DISCREPANCIES BETWEEN QUANTITIES SHOWN ON THE PLANTING PLAN AND THOSE IN THE PLANT LIST SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR CLARIFICATION. IF CLARIFICATION OR DISCREPANCIES FROM THE LANDSCAPE ARCHITECT IS NOT POSSIBLE, THEN QUANTITIES SHOWN ON THE PLANTING PLAN SHALL TAKE PRECEDENCE.



**URS**  
101 Research Drive  
Columbia, South Carolina 29203  
Telephone (803) 254-4400 - Fax (803) 771-4676  
www.URS.com

**PLANTING AND IRRIGATION DETAILS**

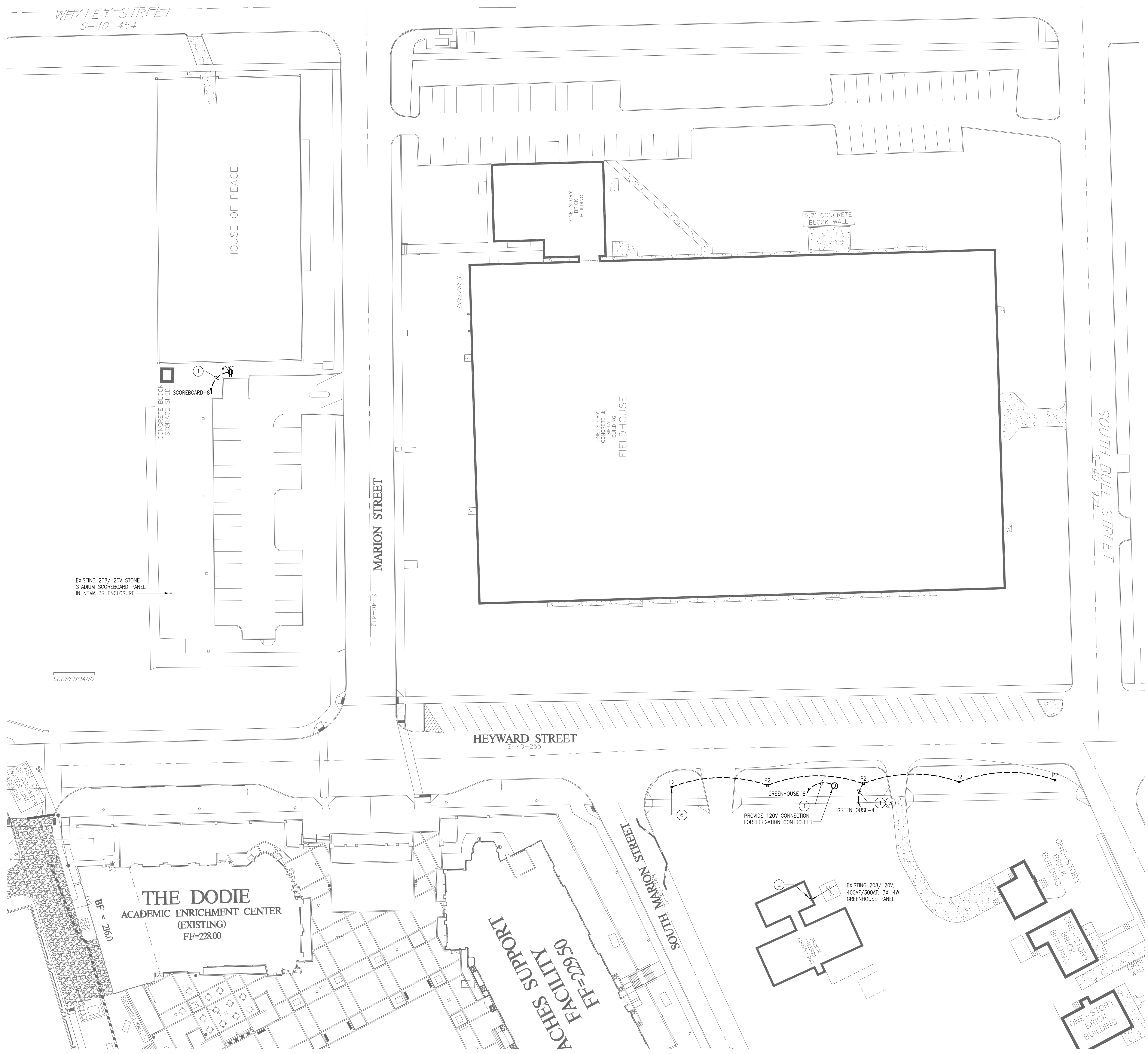
PROJECT: PARKING, CURB AND SIDEWALK IMPROVEMENTS HEYWARD & MARION STREETS FOR UNIVERSITY OF SOUTH CAROLINA  
SHEET TITLE: PLANTING AND IRRIGATION DETAILS  
SCALE: NOT TO SCALE  
DATE: MAY 21, 2012  
RICHLAND COUNTY, S.C.  
IN THE CITY OF COLUMBIA

DWG. NAME	SHEET
2103-2039	L-3
REF: 34,357-B82	OF
PROJECT NO. 46422191	3

FILE NO. 35,927-B89



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- DRAWING NOTES:**
- SEE PANEL SCHEDULE FOR WIRE AND CONDUIT SIZE. PROVIDE SAME WIRE AND CONDUIT SIZE FOR ENTIRE LENGTH OF CIRCUIT RUN.
  - PROVIDE 365 DAY ASTRONOMICAL TIMECLOCK BY INTERMATIC, ET SERIES OR APPROVED EQUAL.
  - ROUTE LIGHTING CIRCUIT THROUGH TIME CLOCK LOCATED IN GREENHOUSE.
  - NOT USED.
  - NOT USED.
  - LIGHTING POLE AND FIXTURE HEADS PROVIDED BY THE OWNER. PROVIDE OFFLOADING FROM DELIVERY TRUCK AT THE SITE AND INSTALLATION OF POLES AND LIGHTING FIXTURES, TYPICAL OF ALL FIXTURE TYPES P1 AND P2.

REGISTERED ENGINEER  
STATE OF SOUTH CAROLINA  
No. 20335

REGISTERED ENGINEER  
STATE OF SOUTH CAROLINA  
No. 20335

**R.M.F. ENGINEERING, INC.**  
194 SEVEN FARMS DRIVE  
SUITE G  
CHARLESTON, SC 29492  
PHONE: 843-971-9639  
FAX: 843-971-9641  
www.rmf.com  
RMF #312070.AO

NO.	DESCRIPTION	DATE	BY

APPROVALS	DESCRIPTION	DATE	SIGNATURE
PROJECT ENG <b>BAC</b>	DESIGNED BY		
DRAWN <b>PAM</b>	DRAWN		
CHECKED BY <b>BAC</b>	CHECKED BY		
APPROVED <b>BAC</b>	APPROVED		

**URS**  
101 Research Drive  
Columbia, South Carolina 29203  
Telephone (803) 254-4400 ; Fax (803) 771-6676  
www.URS Corp.

ELECTRICAL SITE PLAN

SCALE: 1"=20'-0"

DATE: MAY 21, 2012

**PARKING, CURB AND SIDEWALK IMPROVEMENT HEYWARD & MARION STREETS FOR UNIVERSITY OF SOUTH CAROLINA**

IN THE CITY OF COLUMBIA      RICHLAND COUNTY, S.C.

DWG NAME	SHEET
N.B. NO. 2103, 2039	E 1
REV. 34,357-B82	OF
PROJECT NO. 46422191	2

FILE NO. 35,803-B88



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<b>PANEL NO.:</b> SCOREBOARD	<b>CLIENT:</b> USC	<b>USAGE:</b> SURFACE
<b>LOCATION:</b> SCOREBOARD	<b>MOUNTING:</b> LIGHTING AND APPLIANCE	<b>PHASES:</b> BAC
<b>L-L VOLTS:</b> 208	<b>PANEL TYPE:</b> RMF PROJECT NO.: 312070.A0	<b>ENGINEER:</b> BAC
<b>L-G VOLTS:</b> 120		<b>ENGINEER:</b> BAC
<b>BUS AMPS:</b> 225		<b>ENGINEER:</b> BAC
<b>AIC RATING:</b> EXISTING		<b>ENGINEER:</b> BAC
<b>MAIN CB AMPS:</b> 125		<b>ENGINEER:</b> BAC

**PANEL NOTES:**  
 1. EXISTING SQUARE D PANELBOARD.  
 2. PROVIDE 1P, 20A CB IN EXISTING SPACE TO MATCH EXISTING PANELBOARD.

CND SIZE	CND. SIZE	PHASE/NEUT. SIZE	CKT AMPS	LOAD DESCRIPTION	CB BKR. RATING (AMPS)/POLES	CIRCUIT NUMBER A B C	CB BKR. RATING (AMPS)/POLES	LOAD DESCRIPTION	CKT AMPS	PHASE/NEUT. SIZE	CND. SIZE	CND SIZE
			0.00	EXISTING	20/1	1 A 2	20/1	EXISTING	0.00			
			0.00	EXISTING	20/1	3 B 4	20/1	EXISTING	0.00			
			0.00	EXISTING	20/1	5 C 6	20/1	EXISTING	0.00			
			0.00	EXISTING	20/1	7 A 8	20/1 (2)	SECURITY GATE/IRR RECEPT	4.17	#10	#10	1"
			0.00	EXISTING	30/2	9 B 10	-	SPACE	0.00			
			0.00	EXISTING	30/2	11 C 12	-	SPACE	0.00			
			0.00	EXISTING	30/2	13 A 14	-	SPACE	0.00			
			0.00	EXISTING	20/1	15 B 16	-	SPACE	0.00			
			0.00	EXISTING	30/2	17 C 18	-	SPACE	0.00			
			0.00	EXISTING	20/1	19 A 20	-	SPACE	0.00			
			0.00	EXISTING	20/1	21 B 22	-	SPACE	0.00			
			0.00	EXISTING	20/1	23 C 24	-	SPACE	0.00			
			0.00	EXISTING	20/3	25 A 26	-	SPACE	0.00			
			0.00	EXISTING	20/3	27 B 28	-	SPACE	0.00			

LOADS	CONNECTED (KVA)	DIVERSITY FACTOR %	DEMAND (KVA)
LIGHTING	0.00	100%	0.00
HVAC COOLING*	0.00	100%	0.00
HVAC HEATING*	0.00	100%	0.00
MOTORS	0.00	100%	0.00
KITCHEN EQUIPMENT	0.00	100%	0.00
RECEPTACLES (1st 10 KVA)	0.00	100%	0.00
RECEPTACLES (>10 KVA)	0.00	50%	0.00
MISCELLANEOUS	0.50	100%	0.50

\* LOAD VALUES HAVE BEEN ADJUSTED TO REFLECT WORST CASE LOADING FOR EQUIPMENT WITH BOTH COOLING AND HEATING SYSTEMS.

PHASE	CONNECTED (KVA)	DEMAND (KVA)	DEMAND (AMPS)
A	0.50	0.50	4.17
B	0.00	0.00	0.00
C	0.00	0.00	0.00
A,B,C TOTALS	0.50	0.50	1.39

<b>PANEL NO.:</b> GREEN HOUSE	<b>CLIENT:</b> USC	<b>USAGE:</b> SURFACE
<b>LOCATION:</b> GREEN HOUSE	<b>MOUNTING:</b> LIGHTING AND APPLIANCE	<b>PHASES:</b> BAC
<b>L-L VOLTS:</b> 208	<b>PANEL TYPE:</b> RMF PROJECT NO.: 312070.A0	<b>ENGINEER:</b> BAC
<b>L-G VOLTS:</b> 120		<b>ENGINEER:</b> BAC
<b>BUS AMPS:</b> 400		<b>ENGINEER:</b> BAC
<b>AIC RATING:</b> EXISTING		<b>ENGINEER:</b> BAC
<b>MAIN CB AMPS:</b> 300		<b>ENGINEER:</b> BAC

**PANEL NOTES:**  
 1. EXISTING GE A SERIES PANELBOARD.  
 2. REMOVE EXISTING 1P, 20A SPARE CB AND INSTALL NEW 2P, 20A CB TO MATCH EXISTING PANELBOARD.  
 3. USE EXISTING 1P, 20A SPARE CB.

CND SIZE	CND. SIZE	PHASE/NEUT. SIZE	CKT AMPS	LOAD DESCRIPTION	CB BKR. RATING (AMPS)/POLES	CIRCUIT NUMBER A B C	CB BKR. RATING (AMPS)/POLES	LOAD DESCRIPTION	CKT AMPS	PHASE/NEUT. SIZE	CND. SIZE	CND SIZE
			0.00	EXISTING	70/3	1 A 2	20/1	EXISTING	0.00			
			0.00	EXISTING	70/3	3 B 4	20/2 (2)	POLE LTC - HEYWARD ST.	3.50	#10	#10	1"
			0.00	EXISTING	70/3	5 C 6	20/1 (3)	IRRIGATION CONTROLLER	4.17	#10	#10	1"
			0.00	SPARE	20/1	7 A 8	20/1 (3)	SPACE	0.00			
			0.00	SPARE	20/1	9 B 10	20/1	SPACE	0.00			
			0.00	SPARE	20/1	11 C 12	20/1	SPACE	0.00			
			0.00	SPARE	20/1	13 A 14	20/1	SPACE	0.00			
			0.00	SPARE	20/1	15 B 16	20/1	SPACE	0.00			
			0.00	SPARE	20/1	17 C 18	20/1	SPACE	0.00			
			0.00	SPARE	20/1	19 A 20	20/1	SPACE	0.00			
			0.00	SPARE	20/1	21 B 22	20/1	SPACE	0.00			
			0.00	SPARE	20/1	23 C 24	20/1	SPACE	0.00			
			0.00	SPARE	20/1	25 A 26	20/1	SPACE	0.00			
			0.00	SPARE	20/1	27 B 28	20/1	SPACE	0.00			
			0.00	SPARE	20/1	29 C 30	20/1	SPACE	0.00			
			0.00	SPARE	20/1	31 A 32	20/1	SPACE	0.00			
			0.00	SPARE	20/1	33 B 34	20/1	SPACE	0.00			
			0.00	SPARE	20/1	35 C 36	20/1	SPACE	0.00			
			0.00	SPARE	20/1	37 A 38	20/1	SPACE	0.00			
			0.00	SPARE	20/1	39 B 40	20/1	SPACE	0.00			
			0.00	SPARE	20/1	41 C 42	20/1	SPACE	0.00			

LOADS	CONNECTED (KVA)	DIVERSITY FACTOR %	DEMAND (KVA)
LIGHTING	0.84	100%	0.84
HVAC COOLING*	0.00	100%	0.00
HVAC HEATING*	0.00	100%	0.00
MOTORS	0.00	100%	0.00
KITCHEN EQUIPMENT	0.00	100%	0.00
RECEPTACLES (1st 10 KVA)	0.00	100%	0.00
RECEPTACLES (>10 KVA)	0.00	50%	0.00
MISCELLANEOUS	0.50	100%	0.50

\* LOAD VALUES HAVE BEEN ADJUSTED TO REFLECT WORST CASE LOADING FOR EQUIPMENT WITH BOTH COOLING AND HEATING SYSTEMS.

PHASE	CONNECTED (KVA)	DEMAND (KVA)	DEMAND (AMPS)
A	0.42	0.42	3.50
B	0.42	0.42	3.50
C	0.00	0.00	0.00
A,B,C TOTALS	1.34	1.34	3.72

FIXTURES AND POLES TO BE PROVIDED BY USC, INSTALLED BY THE CONTRACTOR. SCHEDULE BELOW IS FOR REFERENCE ONLY.

FIXTURE TYPE	DESCRIPTION	LOUVER/ LENS	LAMPS		BALLAST		VOLTAGE	INPUT WATTAGE	MOUNTING	REMARKS	MANUFACTURER	FIXTURE TYPE		
			TYPE	WATTAGE	QTY.	COLOR TEMP.							TYPE	QTY.
P1	POLE MOUNTED LIGHTING FIXTURE	-	MH	150	1	3500K	ELECTRONIC PULSE START	1	277	168	POLE	MOUNTED ON 14' POLE, SINGLE HEAD WITH IES CUT OFF OPTION. PROVIDE POLE BY STERNBERG, CATALOG NUMBER 5214FPS WITH CUSTOM FINISH RAL #7026.	STERNBERG# MS805B-3-R05-FHC-150PSMH-MED-277-CA-CM-RAL7026	P1
P2	POLE MOUNTED LIGHTING FIXTURE	-	MH	150	1	3500K	ELECTRONIC PULSE START	1	208, 19	168	POLE	MOUNTED ON 14' POLE, SINGLE HEAD WITH IES CUT OFF OPTION. PROVIDE POLE BY STERNBERG, CATALOG NUMBER 5214FPS WITH CUSTOM FINISH RAL #7026.	STERNBERG# MS805B-3-R05-FHC-150PSMH-MED-208-CA-CM-RAL7026	P2

**POWER SYMBOLS**

**SYMBOL**      **DESCRIPTIONS**

NON-FUSED DISCONNECT SWITCH, 30A, 3P (UNLESS OTHERWISE NOTED)

PANELBOARD

DISTRIBUTION PANELBOARD

TRANSFORMER

CIRCUIT CONCEALED IN WALLS OR CEILING SPACE. CONDUCTORS SHALL BE MINIMUM 2#12 AWG AND 1#12 AWG GROUND IN 3/4" CONDUIT, (UNLESS OTHERWISE NOTED)

RACEWAY CONCEALED IN SLAB OR BELOW GRADE.

BRANCH CIRCUIT HOMERUN TO PANELBOARD. QUANTITY OF CIRCUITS INDICATED BY ARROWS (4#12). NUMBER OF CONDUCTORS SHALL BE MINIMUM 4#12 AWG AND 1#12 AWG GROUND IN 3/4" CONDUIT, (UNLESS OTHERWISE NOTED)

RACEWAY RUN EXPOSED. CONDUCTORS SHALL BE MINIMUM 2#12 AWG AND 1#12 AWG IN 3/4" CONDUIT, (UNLESS OTHERWISE NOTED)

**SYMBOL**      **DESCRIPTIONS**

POLE MOUNTED LIGHTING FIXTURE- SINGLE, POLE TOP

**CIRCUIT DESIGNATIONS**

**LIGHTING**

FIXTURE TYPE

\*CIRCUIT DESIGNATION

SWITCH DESIGNATION

**POWER**

\*CIRCUIT DESIGNATION

\* SEE NOTES FOR PANEL DESIGNATIONS FOR EACH AREA.

**EQUIPMENT DESIGNATIONS**

DESIGNATION	DESCRIPTIONS
SWGR	SWITCHGEAR
SWBD	SWITCHBOARD
PNL	PANELBOARD
MCC	MOTOR CONTROL CENTER
XFMR	TRANSFORMER

**ELECTRICAL DRAWING PRESENTATION**

**SYMBOL**      **DESCRIPTIONS**

REVISION NUMBER 2

DRAWING NOTE NUMBER 2

EQUIPMENT TAG NUMBER - REFER TO EQUIPMENT SCHEDULE

SECTION/ELEVATION IDENTIFICATION

PART PLAN AND DETAIL IDENTIFICATION

EXISTING LINE TYPE

NEW ELECTRICAL WORK LINE TYPE

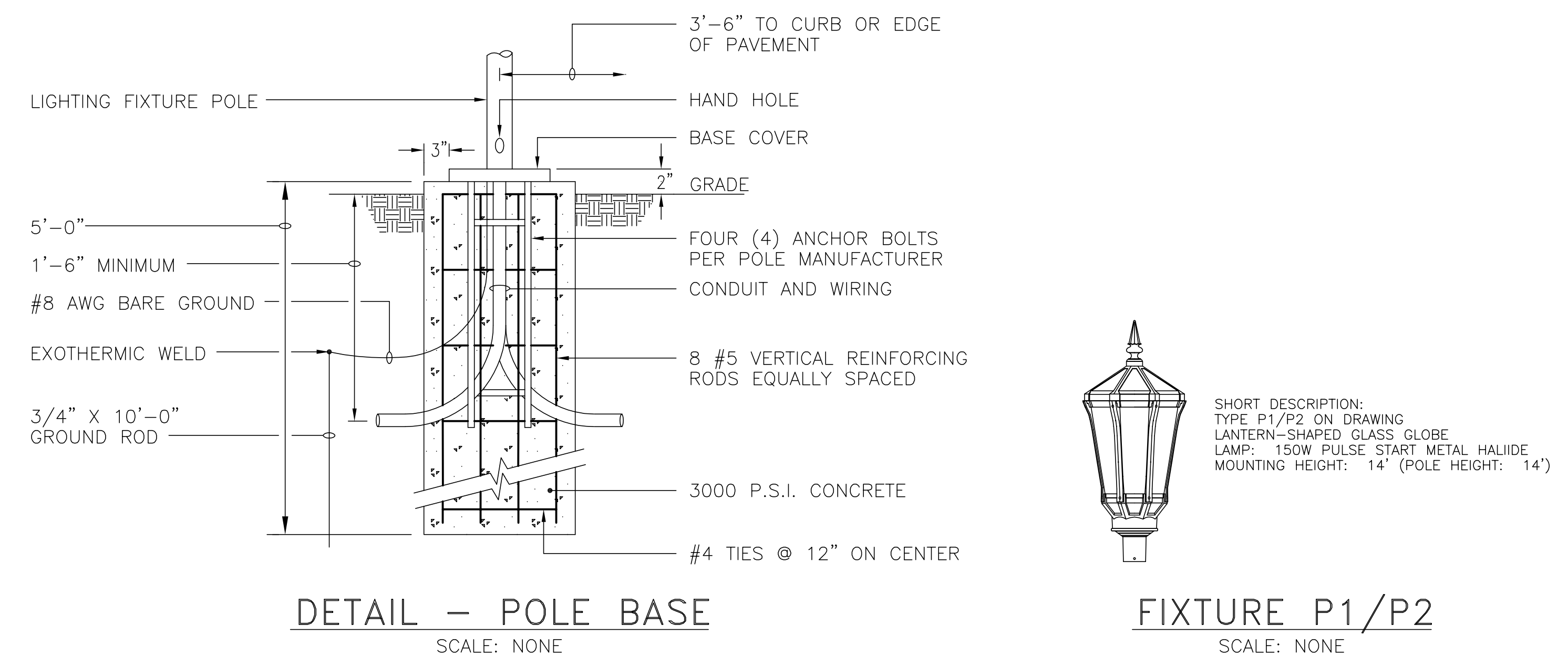
FUTURE ELECTRICAL WORK LINE TYPE

DEMOLITION LINE TYPE ON DEMOLITION DRAWINGS

**GENERAL NOTES:**

1. THIS IS A STANDARD SYMBOL LIST, SOME SYMBOLS MAY NOT APPEAR ON THE ACCOMPANYING DRAWINGS.

2. REFER TO SPECIFICATIONS FOR DETAILED REQUIREMENTS.



**APPROVALS**

PROJECT ENG: BAC

DESIGNED BY: PAM

DRAWN BY: PAM

CHECKED BY: BAC

APPROVED BY: BAC

**REGISTERED PROFESSIONAL ENGINEER**

STATE OF SOUTH CAROLINA

NO. 20355

DATE: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_

**RMF ENGINEERING, INC.**

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**ELECTRICAL LEGEND, DETAILS AND SCHEDULES**

SHEET TITLE

DATE: MAY 21, 2012

SCALE: NONE

**PROJECT**

PARKING, CURB AND SIDEWALK IMPROVEMENT HEYWARD & MARION STREETS FOR UNIVERSITY OF SOUTH CAROLINA

IN THE CITY OF COLUMBIA RICHLAND COUNTY, S.C.

**DWG NAME**      **SHEET**

N.B. NO. 2103, 2039      E2

REV. 34,357-B82      OF

PROJECT NO. 46422191      2

FILE NO. 35,803-B88