SHEET NO.	TOTAL SHEETS
1	56

INDEX OF SHEETS

SEE SHEET IL1

CITY OF WALTERBORO

PROPOSED PLANS FOR

COLLETON COUNTY

PROJECT ID 0041932

SC 63 (SOUTH JEFFERIES BLVD)

FROM: HAMPTON STREET (SC 63)

TO: BENSON ST (S-15-293)

Hydraulic Design Reference for these plans is the:

2009

Edition of SCDOT's "Requirements for Hydraulic Design Studies"

Design Reference for these plans is the:

2001

AASHTO "A Policy on Geometric Design of Highways and Streets"

NPDES PERMIT INFORMATION

Disturbed Area = 0.42 Acre(s)

Project Area = 2.42 Acre(s)

Approximate Location of Roadway is

Begin
Latitude 32° 54′ 6.48″N
Longitude 80° 40′ 1.92″W

End
Latitude 32° 54′ 14.74″N
Longitude 80° 40′ 1.36″W

PROJECT ID 0041932 PROJ. NO. 31588.00
SC 63
SURVEY STA. 62+65.75 TO STA. 71+40.51
SEE SHEETS 6-7

PROJECT ID 0041932 PROJ. NO. 31588.00
SC 63
SURVEY STA. 46+22.44 TO STA. 47+73.11
SEE SHEET TS1

LAYOUT

SCALE 1 INCH = 1250 FEET

CITY OF WALTERBORO

ENVIRONMENTAL PERMIT INFORMATION

USACE PERMIT	___ YES	X NO
NEPA DOCUMENT	X YES	___ NO
401 CERTIFICATION	___ YES	X NO
OCRM CAP	___ YES	X NO
NAVIGABLE WATERS	___ SC ___ USCG	___ USACE X N/A

SCDOT REVIEW	RIGHT-OF-WAY INITIAL	RIGHT-OF-WAY DATE	CONSTRUCTION INITIAL	CONSTRUCTION DATE
PRECONSTRUCTION SUPPORT - ROAD				
PRECONSTRUCTION SUPPORT - STRUCTURES				
RPG - DESIGN MANAGER				
RPG - PROGRAM MANAGER				

THE INITIALS ABOVE DO NOT RELIEVE THE ENGINEER OF RECORD OF THE RESPONSIBILITY TO DESIGN THIS PROJECT IN ACCORDANCE WITH ALL APPLICABLE CRITERIA.

3 DAYS BEFORE DIGGING IN SOUTH CAROLINA

CALL 811

SOUTH CAROLINA 811 (SC811)
WWW.SC811.COM
ALL UTILITIES MAY NOT BE A MEMBER OF SC811

For Right Of Way Acquisition:

Consultant Engineer of Record ___ Date ___

Regional Production Engineer ___ Date ___

RAILROAD INVOLVEMENT?
YES / (NO)

TRAFFIC DATA

2017 ADT 14,300

2037 ADT 15,879

TRUCKS 10 %

LANDSCAPE ARCHITECTURE FIRM

Wood+Partners Inc. WPi
Landscape Architects
Land Planners

612 S Copeland Street ■ Tallahassee, FL 32304
850.391.0360 ■ Fax 850.386.1010 ■ www.woodandpartners.com

NET LENGTH OF ROADWAY	0.166	MILES
NET LENGTH OF BRIDGES	0.000	MILES
NET LENGTH OF PROJECT	0.166	MILES
LENGTH OF EXCEPTIONS	0.000	MILES
GROSS LENGTH OF PROJECT	0.166	MILES

EQUALITIES IN STATIONING

NONE

NOTE: EXCEPT AS MAY OTHERWISE BE SPECIFIED ON THE PLANS OR IN THE SPECIAL PROVISIONS, ALL MATERIALS AND WORKMANSHIP ON THIS PROJECT SHALL CONFORM TO THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (2007 EDITION) AND THE STANDARD DRAWINGS FOR ROAD CONSTRUCTION IN EFFECT AT THE TIME OF LETTING.

CONSULTING ENGINEERING FIRM

DAVIS & FLOYD

SINCE 1954

WWW.DAVISFLOYD.COM

ENGINEER OF RECORD

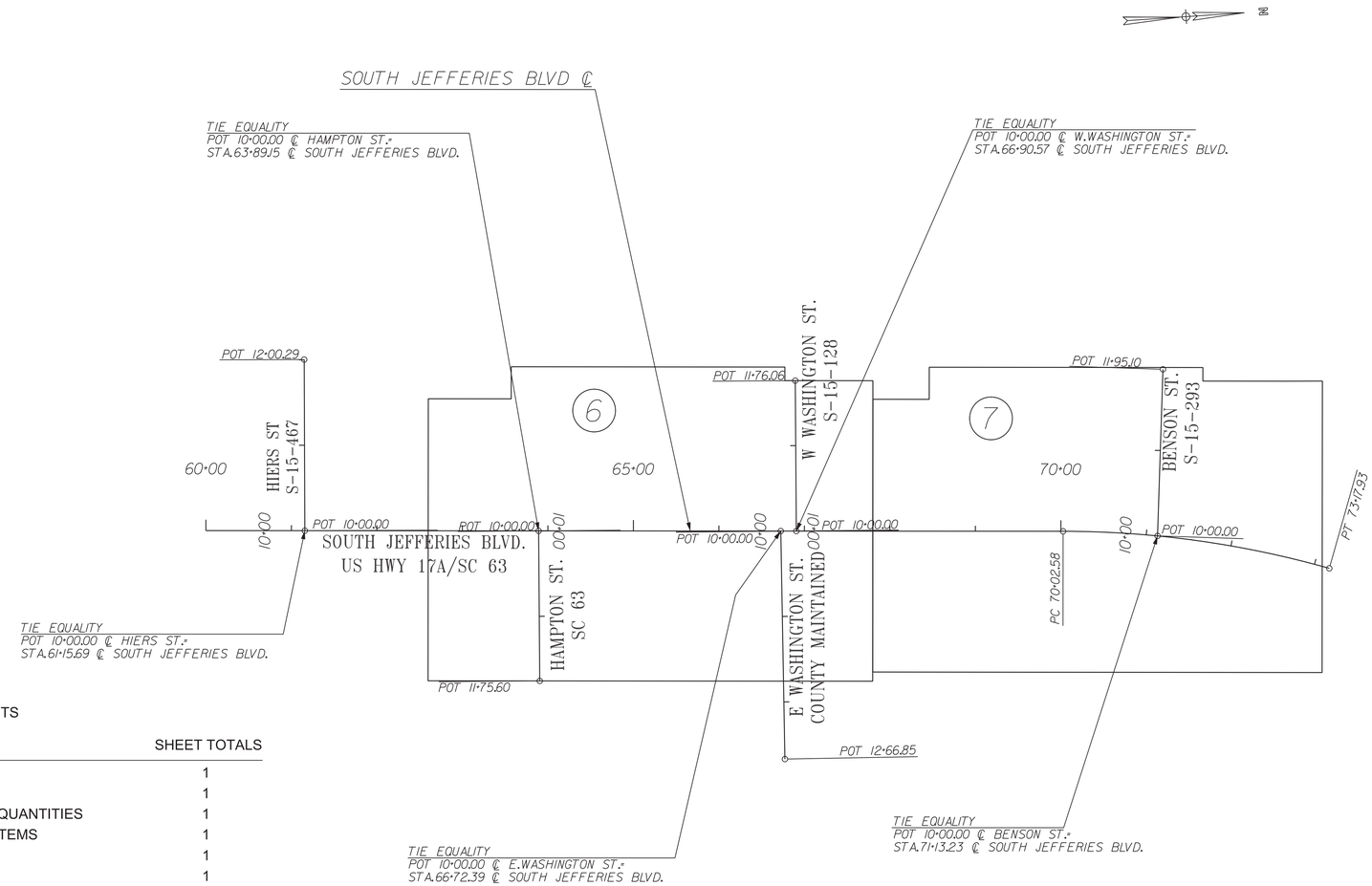
SOUTH CAROLINA DAVIS & FLOYD, INC. No. C00538 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 20214 GEORGE TILLEY BULL

FOR CONSTRUCTION : 08/03/2018
DATE

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	COLLETON	0041932	31588.00	SC 63	IL1	

SOUTH JEFFERIES BLVD



INDEX OF SHEETS

SHEET #	DESCRIPTION	SHEET TOTALS
1	TITLE SHEET	1
IL1	INDEX / LAYOUT SHEET	1
2	SUMMARY OF ESTIMATED QUANTITIES	1
2A	REMOVAL AND DISPOSAL ITEMS	1
3	TYPICAL SECTIONS	1
3A	DETAILS	1
4	RIGHT OF WAY DATA SHEET	1
4A	PROPERTY STRIP MAP	1
5	GENERAL CONSTRUCTION NOTES	1
5A	REFERENCE SHEET	1
6 - 7A	PLAN AND PROFILE SHEETS	4
L1 - L8	SITE FURNISHING PLANS AND DETAILS	8
L9-L12	LANDSCAPE PLANS AND DETAILS	4
L13-L19	IRRIGATION PLANS AND DETAILS	7
L20-L30	FOUNTAIN PLANS AND DETAILS	11
PM01 - PM02	PAVEMENT MARKING PLANS	2
TS1 - TS3	TRAFFIC SIGNAL PLANS	3
S1 - S2	STRUCTURE PLANS	2
EC01 - EC02	EROSION CONTROL PLANS	2
X1 - X3	CROSS SECTIONS	3
	TOTAL SHEETS	56

PREPARED FOR:

CITY OF WALTERBORO
242 HAMPTON STREET
WALTERBORO, SOUTH CAROLINA 29488

I-95 BUSINESS LOOP PHASE 1B SHEET INDEX

Walterboro, South Carolina

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 20214 8/3/2018 GEORGE TILLEY

SOUTH CAROLINA NOTARY PUBLIC DAVIS & FLOYD, INC. No. C005.58 CERTIFICATE OF AUTHORIZATION

DGN: LEK
R/W:
CHK: GTB

#	REVISION	DATE	BY

SHEET NUMBER

IL1

DAVIS & FLOYD
SINCE 1954
WWW.DAVISFLOYD.COM

3229 W. MONTAGUE AVENUE
CHARLESTON, SC 29418
(843) 554-8602

This drawing copy may have been reproduced at a size different than the original drawing. No responsibility is assumed for the use of incorrect scale. Drawings are not to be scaled.

South Carolina 811 Call 811 Before you Dig

Wood+Partners Inc. WPi
Landscape Architects
Land Planners
612 S Copeland Street ■ Tallahassee, FL 32304
850.391.0360 ■ Fax 850.386.1010 ■ www.woodandpartners.com

0 80 160 240 320
SCALE: 1"=80'

PLOTTED: 8/3/2018 11:39:20 AM FILE NAME: \\CHS-FS\Data\Jobs\Even\31588-00\CV_dgn\plns\1-Phase 1B (1B)\1-federal\31588-00-1B-IL-1-Index-layout.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	COLLETON	0041932	31588.00	SC 63	2	

SUMMARY OF ESTIMATED QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
1031000	MOBILIZATION	LS	NEC
1032010	BONDS AND INSURANCE	LS	1.000
1050800	CONSTRUCTION STAKES, LINES & GRADES	EA	1.000
1071000	TRAFFIC CONTROL	LS	NEC
1080300	CPM PROGRESS SCHEDULE	LS	NEC
1090200	AS-BUILT CONSTRUCTION PLANS	LS	1.000
2011000	CLEARING & GRUBBING WITHIN RIGHT OF WAY	LS	NEC
2023000	REMOVAL & DISPOSAL OF EXISTING PAVEMENT	SY	1,015.000
2031200	SITE EXCAVATION	LS	NEC
3069900	MAINTENANCE STONE	TON	50.000
6051120	PERMANENT CONSTRUCTION SIGNS (GROUND MOUNTED)	SF	272.000
6250015	8"WHITE SOLID LINES(CROSSWALK&CHANNELIZATION)FAST DRY PAINT	LF	860.000
6250025	24" WHITE SOLID LINES (STOP/DIAGONAL LINES)-FAST DRY PAINT	LF	200.000
6250110	4"YELLOW SOLID LINE(PVT.EDGE&NO PASSING ZONE)-FAST DRY PAINT	LF	95.000
6271015	8" WHITE SOLID LINES THERMOPLASTIC - 125 MIL.	LF	860.000
6271025	24" WHITE SOLID LINES (STOP/DIAG LINES)-THERMO.-125 MIL	LF	200.000
6271074	4" YELLOW SOLID LINES(PVT.EDGE LINES) THERMO-90 MIL.	LF	95.000
6319505	REMOVAL OF PAVEMENT MARKINGS	LF	770.000
6510105	FLAT SHEET, TYPE III, FIXED SZ. & MSG. SIGN	SF	69.000
6513020	MOUNTING ASSEMBLY FOR F.S. SIGN ERCTD ON MAST ARM	EA	10.000
6531210	U-SECTION POST FOR SIGN SUPPORTS - 3P	LF	44.000
6750275	FURNISH & INSTALL 1.0" SCHEDULE 80 PVC CONDUIT	LF	295.000
6750278	FURNISH & INSTALL 2.0" SCHEDULE 80 PVC CONDUIT	LF	860.000
675027C	FURNISH & INSTALL 3.0" SCHEDULE 80 PVC CONDUIT	LF	92.000
6760060	FURNISH & INSTALL 2" SCHEDULE 80 HDPE CONDUIT (TRENCHLESS)	LF	805.000
6770388	FURNISH & INSTALL NO. 14 COPPER WIRE, 4 CONDUCTOR - BLACK	LF	2,055.000
6770389	FURNISH & INSTALL NO. 14 COPPER WIRE, 4 CONDUCTOR - GRAY	LF	2,510.000
6770393	FURNISH & INSTALL NO. 14 COPPER WIRE, 8 CONDUCTOR (BLACK)	LF	3,000.000
6770394	FURNISH & INSTALL NO. 14 COPPER WIRE, 8 CONDUCTOR (GRAY)	LF	875.000
6770413	FURNISH & INSTL NO. 14 COPPER WIRE,1-CONDUCTOR FOR LOOP WIRE	LF	3,185.000
6780495	SAWCUT FOR LOOP DETECTOR	LF	1,295.000
6800500	MOD. EXIST ELECTRICAL SERVICE FOR TRAFFIC SIGNAL	EA	3.000
6800518	F&I-13"X24"X18"D.ELEC.FLUSH UNDGRD.ENCLOS-(STR.POLY.CONC.)HD	EA	15.000
6825118	21' STEEL POLE WITH 42' MAST ARM	EA	1.000
6825119	21' STEEL POLE WITH 44' MAST ARM	EA	2.000
S000001	21'STL.POLE W/90D.ARMS-30'X36'	EA	1.000
S000002	21'STL.POLE W/90D.ARMS-46'X56'	EA	1.000
S000003	21'STL.POLE W/90D.ARMS-46'X66'	EA	1.000
6825484	FURNISH & INSTALL 10' BREAK-AWAY ALUM PEDESTAL POLE AND BASE	EA	5.000
6845511	F&I - CONTR 332/336 CABINET ASSEMBLY - BASE MOUNTED	EA	3.000
6865710	F&I - 12" 1-WAY-5 SEC(R.Y.YA.G.GA)VEHICLE TRAFFIC SI	EA	2.000
6865722	F&I - 12" 1-WAY-4 SECTION(RA.YA.YAF.GA)VEH TRAFFIC SIGNAL	EA	3.000
6865723	F&I - 12" 1-WAY-3 SECTION(RA.YA.YAF)VEH TRAFFIC SIGNAL	EA	1.000
6865731	F&I - 12" 1-WAY-3 SECTION(R.Y.G.)VEHICLE TRAFFIC SIGNAL	EA	16.000
6865782	F&I - 1-WAY-1SECT.HAND/MAN COUNTDOWN PEDESTRIAN SIGNAL HEAD	EA	14.000
6865791	F&I -PEDESTRIAN PUSH BUTTON STATION ASSEM AND SIGN (R-10-3E)	EA	14.000
6865831	VEHICLE TRAFFIC SIGNAL HEAD MOUNTING ASSEMBLY FOR MAST. ARM	EA	22.000
6865834	BACKPLATE W/ RETROREFL.BORDERS FOR TRAFF. SIG.	EA	22.000
6865840	F&I-PEDESTRIAN TRAF. SIGNAL HEAD MOUNTING ASSEM FOR POST TOP	EA	2.000
6865841	F&I - PED TRAF. SIGNAL HEAD MOUNTING ASSEMBLY FOR SIDE POLE	EA	6.000
6865842	F&I-PED. TRAF. SIGNAL HEAD MOUNT. ASSY FOR DUAL POST TOP	EA	3.000
6885991	REMOVAL,SALVAGE,&DISP.OF EXISTING TRAF. SIGNAL EQUIPMENT	EA	3.000
6885992	TEMPORARY ADJUSTMENT OF TRAFFIC SIGNAL EQUIPMENT	LS	1.000
6887951	FURNISH & INSTALL CONCRETE CABINET FOUNDATION	EA	3.000
6888255	INSTALL LOOP DETECTOR AMPLIFIER	EA	22.000
S000004	F&I MAST ARM STYLE 56C LUMINAIRE ASSEMBLY	EA	6.000
7201100	CONCRETE CURB (TRANSITION)	LF	6.000
7203210	CONCRETE CURB AND GUTTER(2'-0") VERTICAL FACE	LF	81.000

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
7204110	CONCRETE SIDEWALK(4" UNIFORM) OYSTER SHELL FINISH	SY	1,015.000
7204900	DETECTABLE WARNING MATERIAL	SF	87.500
7209000	PEDESTRIAN RAMP CONSTRUCTION	SY	175.000
8021204	4" PERFORATED PIPE UNDERDRAIN	LF	192.000
8091010	RIGHT OF WAY MARKER(REBAR AND CAP)	EA	33.000
8091050	RIGHT OF WAY PLAT	LS	1.000
8100200	TEMPORARY COVER	ACRE	0.083
8109901	MOWING	ACRE	0.083
8131000	SODDING	SY	600.000
8151203	HYDRAULIC EROSION CONTROL PRODUCT (HECP) - TYPE 3	ACRE	0.083
8152004	INLET STRUCTURE FILTER - TYPE F (WEIGHTED)	LF	70.000
8153000	SILT FENCE	LF	550.000
8156219	INLET STRUCTURE FILTER - TYPE A	LF	56.000
S000005	CONCRETE DRIVEWAY (6" UNIFORM) OYSTER SHELL FINISH	EA	330.000
S000006	HISTORIC CONCRETE WALL	LF	190.000
S000007	FOUNTAIN UTILITY CONNECTIONS (WATER, SEWER, ELECTRICAL)	LS	1.000
S000008	Tree Protection Fencing	LF	940.000
S000009	Tree Mitigation	LS	1.000
S000010	Brick Paver Plaza - Herringbore Pattern w/ Double Row Soldier Course Edges	SF	1,936.000
S000011	Brick Bands - Double Row Soldier Course in Sidewalks	SF	1,019.000
S000012	Bluestone Pavers	SF	311.000
S000013	Brick Landscape Curb	LF	64.000
S000014	Brick Site Walls	LF	42.000
S000015	Brick Site Wall Columns	EA	4.000
S000016	Existing Wall End Rebuild (SW corner plaza)	EA	1.000
S000017	Bollard (to match those at SE corner of Washington St)	EA	14.000
S000018	Bench (to match those at SE corner of Washington St)	EA	7.000
S000019	Fountain Equipment (Sheets L20 thru L30)	LS	1.000
S000020	Fountain Structure (Sheets L7 & L8)	LS	1.000
S000021	Azalea Southern Indica Hybrid `Formosa` | Formosa Azalea	EA	15.000
S000022	Rosa x `Double Knockout` | Double Knockout Rose	EA	12.000
S000023	Viburnum davidii | David Viburnum	EA	30.000
S000024	ANNUALS (To be selected by City P&R Dept.)	SF	701.000
S000025	CU Structural Soil (12'x10'x2' per tree in tree well)	CY	89.000
2031100	ORGANIC TOPSOIL	CY	27.000
8110221	PINE STRAW MULCH, 3" DEPTH	SF	620.000
811114B	LAGERSTROEMIAXFAUREI"NATCHEZ"(CRAPE MYRTLE)10-12',45GAL	EA	11.000
8111182	SABAL PALMETTO 14" CAL 16' - 18' HEIGHT	EA	19.000
8161510	TRASH RECEPTACLE (OUTSIDE)	EA	2.000
8115510	Irrigation Meter	EA	1.000
8115510	Tap Fee	EA	1.000
8115510	Rain Bird ESP-16LXME Series Controller	EA	1.000
8115510	Irritrol Wireless Rain/Freeze Sensor	EA	1.000
8115510.1	Rain Bird 100-PEB Series Electric Valve	EA	7.000
8115510.1	Rain Bird #5RC Series 1" Quick-Coupling Valve	EA	2.000
8115510.1	Nibco 1" Gate Valve	EA	2.000
8115510.1	Wilkins Model 950-XL 1" Double Check Backflow Preventer	EA	1.000
8115510.1	10" NDS Pro Series Valve Box	EA	11.000
8115510.1	Jumbo NDS Pro Series Valve Box	EA	1.000
8115510.1	Rain Bird 1812 Series 12" Pop-up Sprayhead with Nozzle	EA	84.000
8115510.1	Hunter AFB Series Pressure Compensating Adjustable Bubbler	EA	30.000
8115510.1	14-1 P.E. Jacketed Control Wire	LF	3,500.000
8115510.1	1" Lateral PR-200 PVC Pipe	LF	1,620.000
8115510.2	1 1/4" Lateral PR-160 PVC Pipe	LF	80.000
8115510.2	1 1/2" Mainline PR-160 PVC Pipe	LF	420.000
8115510.2	2" Sleeve Schedule 40 PVC Pipe	LF	680.000
8115510.2	4" Sleeve Schedule 40 PVC Pipe	LF	180.000

PREPARED FOR:

CITY OF WALTERBORO
242 HAMPTON STREET
WALTERBORO, SOUTH CAROLINA 29488

I-95 BUSINESS LOOP
PHASE 1B
SUMMARY OF ESTIMATED QUANTITIES
Walterboro, South Carolina

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 20214 8/3/2018 GEORGE TILLEY

SOUTH CAROLINA NOTARY PUBLIC DAVIS & FLOYD, INC. No. C005.38 CERTIFICATE OF AUTHORIZATION

DGN: LEK
R/W:
CHK: GTB

#	REVISION	DATE	BY
1	UPDATE QUANTITIES	05/28/15	AMS

SHEET NUMBER
2

DAVIS & FLOYD
SINCE 1954
WWW.DAVISFLOYD.COM

3229 W. MONTAGUE AVENUE
CHARLESTON, SC 29418
(843) 554-8602

This drawing copy may have been reproduced at a size different than the original drawing. No responsibility is assumed for the use of incorrect scale. Drawings are not to be scaled.

South Carolina 811 Call 811 Before you Dig

Wood+Partners Inc. WPi
Landscape Architects
Land Planners
612 S Copeland Street ■ Tallahassee, FL 32304
850.391.0360 ■ Fax 850.386.1010 ■ www.woodandpartners.com

PLOTTED: 8/3/2018 11:39:27 AM FILE NAME: \\CHS-FS\Data\Jobs\Even\31588-00\CV_dgn\plnsht-Phase 1B (1B)\Federal\31588-00-1B1-02-sumquant.dgn

MOVING ITEMS

ITEM NO.	LOCATION FEET-RT.orLT.	LOCATION STATION	DESCRIPTION	WORK TO BE DONE	UNIT	OWNER
1	42' RT	64+44	DIRECTIONAL AND SPEED LIMIT SIGNS	RELOCATE TO SOUTHEAST CORNER OF		SCDOT
				INTERSECTION VERIFY LOCATION WITH		
				SCDOT DISTRICT 6		

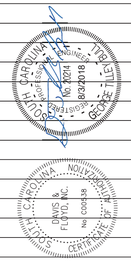
REMOVAL AND DISPOSAL ITEMS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	COLLETON	0041932	31588.00	SC 63	2A	

ITEM NO.	LOCATION FEET-RT.orLT.	LOCATION STATION	DESCRIPTION	WORK TO BE DONE	UNIT	OWNER
1	49' RT - 58' RT	64+29	CONCRETE WALL WITH CONCRETE COLUMNS	REMOVE WALL TO BACK OF PROPOSED		CITY OF WALTERBORO
				SIDEWALK & DISPOSE		
2	37' RT	64+57	LIGHT POLE	REMOVE & RETURN TO CITY OF WALTERBORO		CITY OF WALTERBORO
3	36' RT	64+40 - 65+11	CONCRETE WALL WITH CONCRETE COLUMNS	REMOVE & DISPOSE		CITY OF WALTERBORO
4	37' RT	65+23	LIGHT POLE	REMOVE & RETURN TO CITY OF WALTERBORO		CITY OF WALTERBORO
5	37' RT	65+85	LIGHT POLE	REMOVE & RETURN TO CITY OF WALTERBORO		CITY OF WALTERBORO
6	36' RT	65+17 - 66+20	CONCRETE WALL WITH CONCRETE COLUMNS	REMOVE & DISPOSE		CITY OF WALTERBORO
7	42' RT - 56' RT	66+38 - 66+52	BRICK WALL	REMOVE & DISPOSE		CITY OF WALTERBORO
8	32' RT	67+36	LIGHT POLE	REMOVE & RETURN TO CITY OF WALTERBORO		CITY OF WALTERBORO
9	36' LT	64+92	LIGHT POLE	REMOVE & RETURN TO CITY OF WALTERBORO		CITY OF WALTERBORO
10	36' LT	65+49	LIGHT POLE	REMOVE & RETURN TO CITY OF WALTERBORO		CITY OF WALTERBORO
11	36' LT	66+02	LIGHT POLE	REMOVE & RETURN TO CITY OF WALTERBORO		CITY OF WALTERBORO
12	36' LT - 42' LT	66+08	BRICK WALL	REMOVE WALL TO BACK OF PROPOSED		CITY OF WALTERBORO
				SIDEWALK & DISPOSE		
13	37' LT - 66' LT	66+08 - 66+24	BRICK WALL WITH CONCRETE COLUMNS	REMOVE & DISPOSE		CITY OF WALTERBORO
14	64' LT - 78' LT	66+19 - 66+62	BRICK WALL WITH CONCRETE COLUMNS	REMOVE & DISPOSE		CITY OF WALTERBORO
15	56' LT - 76' LT	67+36 - 67+56	BRICK WALL	REMOVE & DISPOSE		CITY OF WALTERBORO
16	36' RT	69+12	LIGHT POLE	REMOVE & RETURN TO CITY OF WALTERBORO		CITY OF WALTERBORO
17	36' RT	69+75	LIGHT POLE	REMOVE & RETURN TO CITY OF WALTERBORO		CITY OF WALTERBORO
18	36' LT	68+30	LIGHT POLE	REMOVE & RETURN TO CITY OF WALTERBORO		CITY OF WALTERBORO
19	36' LT	69+24	LIGHT POLE	REMOVE & RETURN TO CITY OF WALTERBORO		CITY OF WALTERBORO
20	36' LT	70+02	LIGHT POLE	REMOVE & RETURN TO CITY OF WALTERBORO		CITY OF WALTERBORO
21	36' LT	70+65	LIGHT POLE	REMOVE & RETURN TO CITY OF WALTERBORO		CITY OF WALTERBORO
22	57' LT	67+24	ELECTRONIC SIGN	REMOVE & DISPOSE		COLLETON COUNTY

NEW FENCES

STA. TO STA.		LT.orRT.	DESCRIPTION	LINEAR FT.

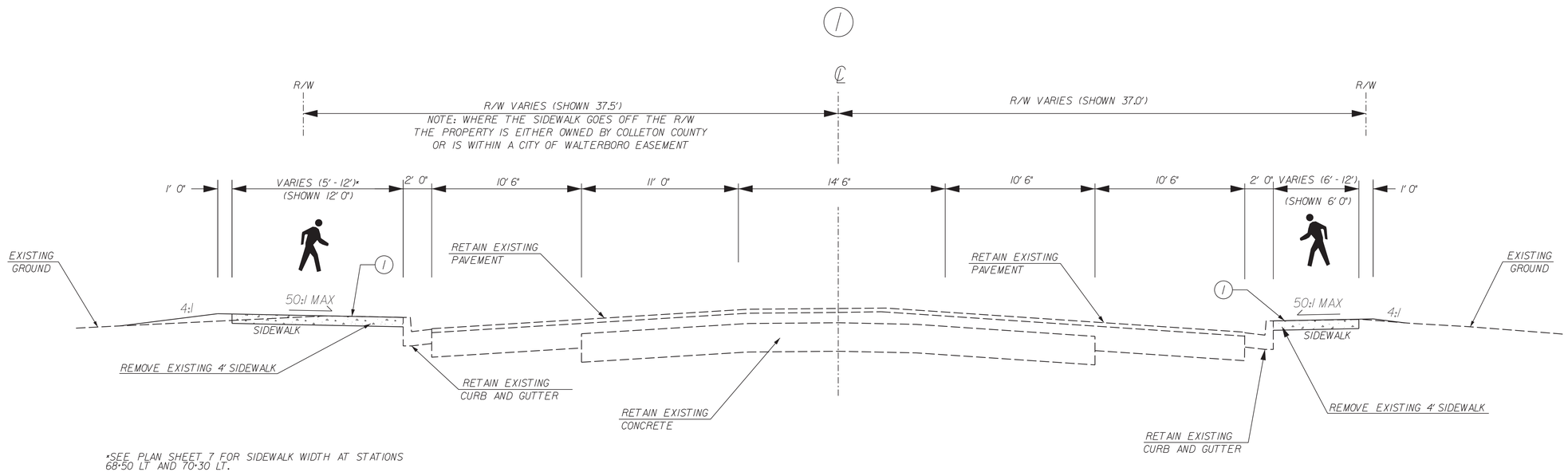


DEM1.DGN

PLOTTED: 8/3/2018 11:39:48 AM FILE NAME: \\CHS-FS\Data\Jobs\Even\31588-00\CV_dgn\plnsht-Phase IB (IB)\Federal\31588-00-IB-02A-moving-items.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	COLLETON	0041932	31588.00	SC 63	3	

TYPICAL SECTION



*SEE PLAN SHEET 7 FOR SIDEWALK WIDTH AT STATIONS 68+50 LT AND 70+30 LT.

USE THIS TYPICAL SECTION FROM
STA. 62+65.75 TO STA. 70+81.63 LEFT
STA. 64+13.43 TO STA. 70+30.00 RIGHT
(FROM HAMPTON ST. TO BENSON ST.)

NOTES
1. DRIVEWAYS SHALL COMPLY WITH SCDOT STANDARD DRAWINGS CHAPTER 720.
2. CURB RAMPS SHALL COMPLY WITH SCDOT STANDARD DRAWINGS CHAPTER 720.

PAVEMENT LEGEND

1 — 4" OYSTER SHELL CONCRETE SIDEWALK

SC 63 DESIGN SPEED		
MPH	FROM STA.	TO STA.
35	62+50	71+55
EXCEPTIONS TO DESIGN SPEED		

ROAD FUNCTIONAL CLASSIFICATION FOR THIS ROUTE IS URBAN MINOR ARTERIAL

PREPARED FOR:
CITY OF WALTERBORO
242 HAMPTON STREET
WALTERBORO, SOUTH CAROLINA 29488

I-95 BUSINESS LOOP
PHASE 1B
TYPICAL SHEET
Walterboro, South Carolina

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 20214 8/3/2018 GEORGE TILLEY

SOUTH CAROLINA NOTICE OF CERTIFICATE DAVIS & FLOYD, INC. No. C005.58

DGN: LEK
R/W:
CHK: GTB

#	REVISION	DATE	BY

SHEET NUMBER
3

DAVIS & FLOYD
SINCE 1954
WWW.DAVISFLOYD.COM
3729 W. MONTAGUE AVENUE
CHARLESTON, SC 29418
(843) 554-8602

This drawing copy may have been reproduced at a size different than the original drawing. No responsibility is assumed for the use of incorrect scale. Drawings are not to be scaled.

South Carolina 811 Call 811 Before you Dig

Wood+Partners Inc. WPi
Landscape Architects
Land Planners
612 S Copeland Street ■ Tallahassee, FL 32304
850.391.0360 ■ Fax 850.386.1010 ■ www.woodandpartners.com

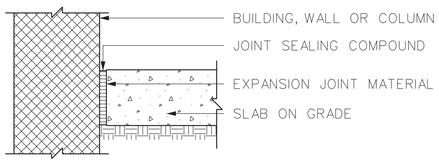
SCALE: 1"V=2' SCALE 1"H=4'

PLOTTED: 8/3/2018 11:39:50 AM FILE NAME: \\CHS-FS\Data\JobsEven\31588-00\CV_dgn\plnsht-Phase 1B (1B)\Federal\31588-00-1B-03-typical-1B.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	COLLETON	0041932	31588.00	SC 63	3A	

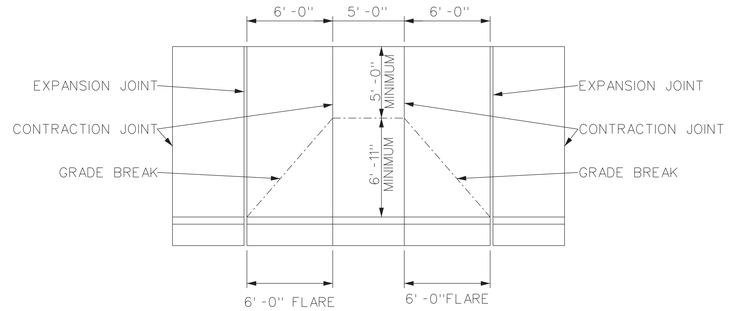
SOUTH JEFFERIES BLVD

SIDEWALK JOINT DETAIL (FOR USE BETWEEN SIDEWALK AND WALLS OR BUILDINGS)

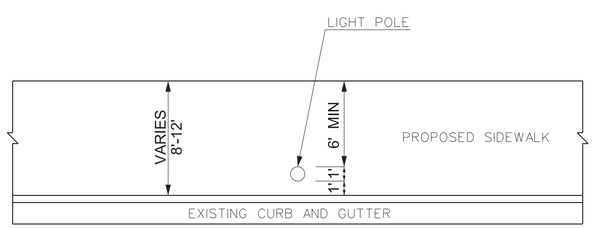


NOTES:
1. USE 1/2" THICK PREFORMED EXPANSION JOINT MATERIAL PER AASHTO M 213 (ASPHALT-SATURATED CELLULOSIC FIBER)
2. SEAL JOINT WITH SILICONE JOINT SEALANT (SCDOT QUALIFIED PRODUCT LIST 8) AT THE TOP OF THE JOINT
3. NO ADDITIONAL PAYMENT SHALL BE MADE FOR SIDEWALK JOINTS. ALL COSTS ASSOCIATED WITH SIDEWALK JOINTS SHALL BE INCLUDED IN UNIT COST OF SIDEWALK PER SY

STANDARD DRAWING 720-951-36 FLARE MODIFICATION



LIGHT POLE LOCATION WITHIN SIDEWALK DETAIL



NOTES:
1. DETAIL IS FOR INFORMATION ONLY TO DISPLAY MINIMUM WIDTHS BETWEEN LIGHT POLE AND BACK OF SIDEWALK. CONTRACTOR SHALL COORDINATE WITH SCE&G FOR LIGHT INSTALLATION.

PREPARED FOR:
CITY OF WALTERBORO
242 HAMPTON STREET
WALTERBORO, SOUTH CAROLINA 29488

I-95 BUSINESS LOOP PHASE 1B
DETAILS
Walterboro, South Carolina

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 20214 8/3/2018 GEORGE TILLEY

SOUTH CAROLINA NON-LICENSED DAVIS & FLOYD, INC. No. C00058 CERTIFICATE OF AUTHORIZATION

DGN: LEK
R/W:
CHK: GTB

#	REVISION	DATE	BY

SHEET NUMBER
3A

NTS

DAVIS & FLOYD
SINCE 1954
WWW.DAVISFLOYD.COM
3228 W. MONTAGUE AVENUE
CHARLESTON, SC 29418
(843) 554-8002

This drawing copy may have been reproduced at a size different than the original drawing. No responsibility is assumed for the use of incorrect scale. Drawings are not to be scaled.

South Carolina 811 Call 811 Before you Dig

Wood+Partners Inc. WPi
Landscape Architects
Land Planners
612 S Copeland Street ■ Tallahassee, FL 32304
850.391.0360 ■ Fax 850.386.1010 ■ www.woodandpartners.com

PLOTTED: 8/3/2018 11:39:52 AM FILE NAME: \\CHS-FS\Data\Jobs\Even\31588.00\CV_dgn\plnsht-Phase 1B (1B)\Federal\315880-1B)-03A-details.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	COLLETON	0041932	31588.00	SC 63	4	

RIGHT-OF-WAY DATA SHEET

TRACT NO.	PROPERTY OWNER	TAX MAP REFERENCE	TOTAL TRACT ACRES	A OBTAIN OUTFALL DITCH ACRES	A OBTAIN LEFT	A OBTAIN RIGHT	A OBTAIN TOTAL	REMAINDER LEFT ACRES B	REMAINDER RIGHT ACRES B	DATE ACQUIRED	TYPE OF INSTRUMENT	OUTFALL DITCH PERMISSION (YES)	SLOPE PERMISSION (YES)	DRAINAGE STRUCTURE PERMISSION (YES)	EROSION CONTROL PERMISSION (YES)	ENTRANCE CONSTRUCTION PERMISSION (YES)	REMARKS
1	CITY OF WATERBORO A SOUTH CAROLINA	163-11-00-223	1.41		75.0 SF (0.002) AC		75.0 SF (0.002) AC	1.408 AC		10/04/2017					YES		
2	COLLETON COUNTY	163-11-00-226	1.99												YES		
3	COLLETON COUNTY	163-11-00-227	3.42										YES		YES		
4	SOUTHERN PINES PLANTATIONS LLC	163-11-00-229	0.55														
5	GAIL REARDEN-MURRAY AND AUDREY REARDEN	163-11-00-005	0.12														
6	COLLETON COUNTY	163-11-00-001	1.26			237.5 SF (0.005) AC	237.5 SF (0.005) AC		1.255 AC	08/29/2017			YES				
7	PEDEN B MCLEOD	163-11-00-254	0.13										YES		YES		
8	PEDEN B MCLEOD	163-11-00-077	0.08														
9	PEDEN B MCLEOD	163-11-00-162	0.29												YES		
10	PEDEN B MCLEOD	163-11-00-077	0.15										YES		YES	YES	
11	JOHN PAUL DOWNEY	163-11-00-166	0.34										YES		YES		
12	WYMAN H SHARPE	163-11-00-279	0.57														
22	THE OAKS OF COLLETON LLC	163-11-00-221	1.31														
31	JOHN GREGORY KNIGHT	163-11-00-007	0.14														
32	BENJAMIN C P SAPP	163-11-00-006	0.14														

NOTES:

A TOTAL OBTAIN INCLUDES HIGHLAND, MARSH AND OUTFALL DITCHES. OBTAINS WILL BE SHOWN IN SQUARE FEET AND ACRES. ACRES WILL BE SHOWN IN PARENTHESES UNDER SQUARE FEET. IN RURAL AREAS OBTAINS MAY BE SHOWN IN ACRES ONLY. OUTFALL DITCHES WILL BE SHOWN IN ACRES ONLY.

B SHOW REMAINDER IN SQUARE FEET WHEN LESS THAN 0.25 ACRE.

DAVIS & FLOYD
SINCE 1954
WWW.DAVISFLOYD.COM

3229 W. MONTAGUE AVENUE
CHARLESTON, SC 29418
(843) 554-8602

This drawing copy may have been reproduced at a size different than the original drawing. No responsibility is assumed for the use of incorrect scale. Drawings are not to be scaled.

South Carolina 811 Call 811 Before you Dig

Wood+Partners Inc. WPi
Landscape Architects
Land Planners
612 S Copeland Street ■ Tallahassee, FL 32304
850.391.0360 ■ Fax 850.386.1010 ■ www.woodandpartners.com

PREPARED FOR:

CITY OF WATERBORO
242 HAMPTON STREET
WALTERBORO, SOUTH CAROLINA 29488

I-95 BUSINESS LOOP PHASE 1B R/W DATA SHEET

Walterboro, South Carolina

SOUTH CAROLINA PROFESSIONAL ENGINEER No 20214 REGISTERED 8/3/2018 GEORGE TILLEY JR.

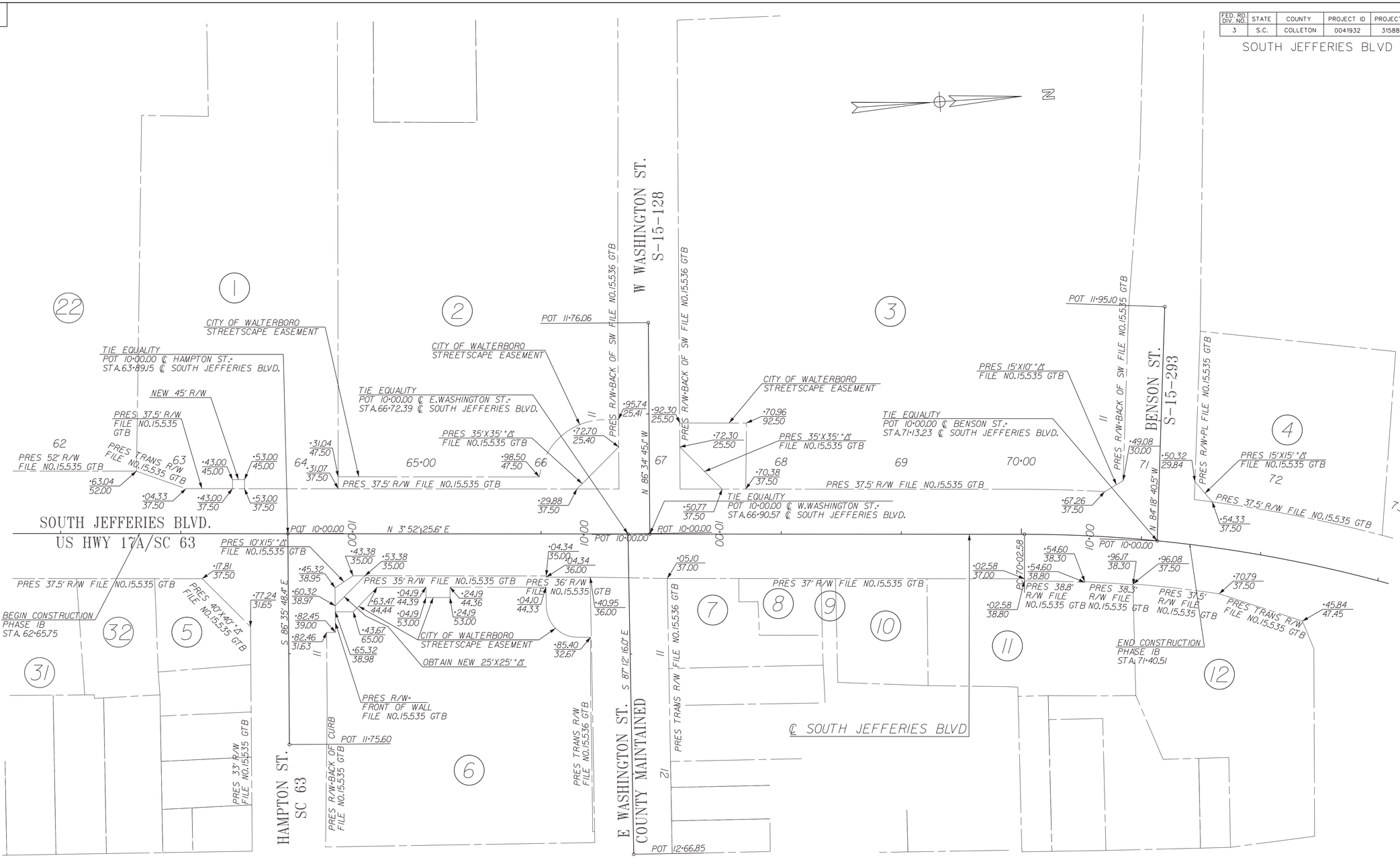
SOUTH CAROLINA DAVIS & FLOYD, INC. No. C005-38 CERTIFICATE OF AUTHORIZATION

DGN: LEK
R/W:
CHK: GTB

#	REVISION	DATE	BY

SHEET NUMBER
4

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	COLLETON	0041932	31588.00	SC 63	4A	



PREPARED FOR:

CITY OF WALTERBORO
242 HAMPTON STREET
WALTERBORO, SOUTH CAROLINA 29488

I-95 BUSINESS LOOP PHASE 1B PROPERTY STRIP MAP

Walterboro, South Carolina

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 22214 8/3/2018 GEORGE TILLEY JR.

SOUTH CAROLINA PROFESSIONAL LAND SURVEYOR No. C005.58 DAVIS & FLOYD, INC. CERTIFICATE OF AUTHORITY

DGN: LEK
R/W:
CHK: GTB

#	REVISION	DATE	BY

SHEET NUMBER
4A

PLOTTED: 8/3/2018 11:39:59 AM FILE NAME: \\CHS-FS\Data\Jobs\Even\31588.00\CV_dgn\plnsht-Phase IB (IB)\Federal\31588.00-IB1-4A-propstrlpmap-IB.dgn

DAVIS & FLOYD
SINCE 1954
WWW.DAVISFLOYD.COM

3229 W. MONTAGUE AVENUE
CHARLESTON, SC 29418
(843) 554-8602

This drawing copy may have been reproduced at a size different than the original drawing. No responsibility is assumed for the use of incorrect scale. Drawings are not to be scaled.

South Carolina 811 Call 811 Before you Dig

Wood+Partners Inc. WPi
Landscape Architects
Land Planners
612 S Copeland Street ■ Tallahassee, FL 32304
850.391.0360 ■ Fax 850.386.1010 ■ www.woodandpartners.com

0 40 80 120 160
SCALE: 1"=40'

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	COLLETON	0041932	31588.00	SC 63	5	

SOUTH JEFFERIES BLVD

GENERAL CONSTRUCTION NOTES:

THE CONTRACTOR MUST PERFORM ALL WORK IN ACCORDANCE WITH THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD DRAWINGS FOR ROAD CONSTRUCTION (LATEST EDITION), SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (LATEST EDITION), SCDOT TRAFFIC SIGNAL SPECIFICATIONS, THE MUTCD, 2009 EDITION, AND THE REVISED DRAFT GUIDELINES FOR PUBLIC RIGHT-OF-WAY (PROWAG) 2005 OF THE U.S. ACCESS BOARD.

THE CONTRACTOR SHALL IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES TO PREVENT THE TRANSFER OF SUSPENDED SOLIDS AND/OR CHEMICAL SOLUTIONS OFF-SITE, AND TO PREVENT EXCESSIVE SILTATION OF EXISTING DRAINAGE PIPES, CULVERTS, AND DITCHES. THE CONTRACTOR SHALL ROUTINELY INSPECT AND MAINTAIN THESE DEVICES. SEE SHEET EC01.

THE LOCATIONS OF EXISTING UTILITIES AND STORM DRAINAGE FACILITIES SHOWN ON THE PLANS ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE UTILITIES INFORMATION SHOWN ON THE DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE EXACT LOCATION OF ALL UTILITIES BEFORE CONSTRUCTION. PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM THAT THE PROPER COORDINATION WITH THE VARIOUS UTILITY OWNERS HAS BEEN PERFORMED. THE CONTRACTOR SHALL COOPERATE WITH THE UTILITY DURING RELOCATION OPERATIONS.

THE LOCATION OF UTILITIES SHOWN IN THE PLANS SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS DESIGNATED BY A TEST HOLE. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.

THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, STORM DRAINS, UTILITIES AND OTHER FACILITIES TO REMAIN AND SHALL REPAIR ANY DAMAGES DUE TO CONSTRUCTION ACTIVITIES AT NO ADDITIONAL COST TO THE OWNER.

THE CONTRACTOR SHALL NOT STORE ANY MATERIALS OR EQUIPMENT WITHIN 15 FT OF THE EDGE OF TRAVEL WAY.

PIPE LENGTHS THAT ARE SHOWN ON THE PLANS ARE CALCULATED ALONG THE PIPE SLOPE FROM CENTER OF BOX TO CENTER OF BOX. FIELD ADJUSTMENTS OF THE ACTUAL PIPE LENGTHS MAY BE NECESSARY.

FINAL SURFACE COURSE ON ALL ROADWAYS SHALL NOT BE PLACED UNTIL ALL DRAINAGE AND CURB AND GUTTER INSTALLATIONS ARE COMPLETE.

THE CONTRACTOR SHALL PROVIDE AND MAINTAIN PROPER DEWATERING PROCEDURES TO PREVENT THE FLOW AND ACCUMULATION OF SURFACE AND GROUND WATER IN EXCAVATED AREAS. ALL OF THE WATER PUMPED OR DRAINED SHALL BE DISPOSED OF WITHOUT UNDUE INTERFERENCE WITH OTHER WORK OR DAMAGE TO PAVEMENTS AND OTHER SURFACES OR PROPERTY. DISCHARGED WATER FROM ALL DEWATERING OPERATIONS SHALL BE FILTERED IN ACCORDANCE WITH SCDHEC REGULATIONS OR AS APPROVED BY THE ENGINEER.

THE CONTRACTOR SHALL PROVIDE A DETAILED STORM WATER POLLUTION PREVENTION PLAN TO THE RESIDENT CONSTRUCTION MANAGER FOR APPROVAL PRIOR TO COMMENCING ANY WORK ON THE PROJECT.

THE CONTRACTOR SHALL PROVIDE A DETAILED TRAFFIC CONTROL PLAN TO THE RESIDENT CONSTRUCTION MANAGER FOR APPROVAL BEFORE STARTING ANY WORK ON THE PROJECT. THIS PLAN SHALL INCLUDE DETAILS CONCERNING PLACEMENT OF REFLECTORIZED BARRELS, CONES, AND/OR TYPE 2 BARRICADES IN ACCORDANCE WITH THE 2009 MUTCD. THE PLAN SHALL ALSO INCLUDE DETAILS TO MAINTAIN PEDESTRIAN MOBILITY DURING CONSTRUCTION WITH NECESSARY SIGNAGE IN ACCORDANCE WITH THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD DRAWINGS FOR ROAD CONSTRUCTION (LATEST EDITION).

THE CONTRACTOR SHALL PRESERVE AND PROTECT FROM INJURY ALL TREES NOT INDICATED TO BE REMOVED. PRUNE AND PAINT ALL TREES DAMAGED IN A SATISFACTORY MANNER AS APPROVED BY THE ENGINEER. REASONABLE CARE SHALL BE TAKEN DURING CONSTRUCTION TO AVOID DAMAGE TO VEGETATION. ORNAMENTAL SHRUBBERY AND TREE BRANCHES SHALL BE TIED BACK, WHERE APPROPRIATE, TO MINIMIZE DAMAGE. TREES WHICH RECEIVE DAMAGE TO BRANCHES SHALL BE TRIMMED OF THOSE BRANCHES TO IMPROVE THE APPEARANCE OF THE TREE. TREE TRUNKS RECEIVING DAMAGE FROM EQUIPMENT SHALL BE TREATED WITH A TREE DRESSING. ALL TREE DRESSING AND REPAIRS SHALL BE PERFORMED BY OR UNDER THE DIRECT SUPERVISION OF A TREE ARBORIST.

THE CONTRACTOR SHALL PROVIDE ALL SHEETING, SHORING, AND BRACING REQUIRED TO PROTECT ADJACENT STRUCTURES AND UTILITIES OR TO MINIMIZE TRENCH WIDTH AS REQUIRED. PAYMENT FOR SUCH MEASURES IS INCLUDED IN THE BID PRICE FOR THE ITEM BEING CONSTRUCTED.

WHERE STORM PIPES AND STRUCTURES ARE IDENTIFIED TO BE ABANDONED IN PLACE, THE FOLLOWING PROCEDURES SHALL BE UTILIZED:

PIPES: PLUG END(S) WITH BRICK AND GROUT.
STRUCTURES: REMOVE RIM/COVER AND CONE OR TOP SLAB.
PLUG PIPE OPENINGS WITH BRICK AND GROUT.
FILL STRUCTURE WITH FLOWABLE FILL TO BOTTOM OF PAVEMENT SECTION.
TEMPORARY ASPHALT IF NEEDED.

THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS SHOWN ON THE PLANS AND REVIEW ALL FIELD CONDITIONS THAT MAY AFFECT CONSTRUCTION. SHOULD DISCREPANCIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO OBTAIN THE ENGINEER'S CLARIFICATION BEFORE COMMENCING CONSTRUCTION.

THE ENGINEER RESERVES THE RIGHT TO ADJUST THE LOCATION OF ALL PROPOSED IMPROVEMENTS TO MEET FIELD CONDITIONS IF NECESSARY.

THE FOLLOWING QUANTITIES ARE NOT SHOWN IN DETAIL ON THE PLANS BUT ARE INCLUDED IN THE SUMMARY OF ESTIMATED QUANTITIES AND MAY BE ADJUSTED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER.

INCLUSION ITEMS

INCLUSION ITEMS			
DESCRIPTION	UNIT	QUANTITY	DESCRIPTION
MOBILIZATION	LS	NEC	PER CONTRACT DOCUMENTS
BONDS AND INSURANCE	LS	1	PER CONTRACT DOCUMENTS
CONSTRUCTION STAKES, LINES & GRADES	EA	1	PER CONTRACT DOCUMENTS
CPM PROGRESS SCHEDULE	LS	NEC	PER CONTRACT DOCUMENTS
REMOVAL & DISPOSAL OF EXISTING PAVEMENT	SY	50	WHERE DIRECTED BY ENGINEER
MAINTENANCE STONE	TON	50	FOR TEMPORARY DRIVEWAYS
CONCRETE CURB AND GUTTER(2'-0") VERTICAL FACE	LF	27.000	WHERE DIRECTED BY ENGINEER
CONCRETE SIDEWALK(4" UNIFORM) OYSTER SHELL FINISH	SY	250.000	WHERE DIRECTED BY ENGINEER
CONCRETE DRIVEWAY (6" UNIFORM) OYSTER SHELL FINISH	SY	110.000	WHERE DIRECTED BY ENGINEER
SILT FENCE	LF	100.000	WHERE DIRECTED BY ENGINEER
U-SECTION POST FOR SIGN SUPPORTS - 3P	LF	44	WHERE DIRECTED BY ENGINEER
SODDING	SY	200	WHERE DIRECTED BY ENGINEER

SCDOT STANDARD DRAWING DETAILS

1. SEE SCDOT STANDARD DRAWING NO. 605-010-02 FOR PERMANENT CONSTRUCTION SIGNS DETAILS.
2. SEE SCDOT STANDARD DRAWING NO. 625-305-00 AND 625-410-00 FOR PAVEMENT MARKING DETAILS.
3. SEE SCDOT STANDARD DRAWING NO. 650-110-02 FOR SIGN INSTALLATION DETAILS.
4. SEE SCDOT STANDARD DRAWING NO. 720-105-01 AND 720-105-02 FOR CURB AND GUTTER DETAILS.
5. SEE SCDOT STANDARD DRAWING NO. 720-405-00 FOR CONCRETE DRIVEWAY DETAILS.
6. SEE SCDOT STANDARD DRAWING NO. 720-901-01, 720-901-02, 720-901-03 AND 720-929-01 FOR PEDESTRIAN RAMP DETAILS.
7. SEE SCDOT STANDARD DRAWING NO. 675-105-03, 675-110-00, 675-115-03, 675-120-00, 675-130-01 AND 675-130-03 FOR SIGNAL DETAILS.
8. SEE SCDOT STANDARD DRAWING NO. 809-105-00 FOR RIGHT-OF-WAY PLAT & REBAR CAP MARKER DETAILS.

PREPARED FOR:
CITY OF WALTERBORO
242 HAMPTON STREET
WALTERBORO, SOUTH CAROLINA 29488

I-95 BUSINESS LOOP
PHASE 1B
GENERAL CONSTRUCTION NOTES
Walterboro, South Carolina

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 22014 8/3/2018 GEORGE TILLEY III

SOUTH CAROLINA NON-EXPIRING CERTIFICATE OF AUTHORIZATION DAVIS & FLOYD, INC. No. C00538

DGN: LEK
R/W:
CHK: GTB

#	REVISION	DATE	BY

SHEET NUMBER
5

This drawing copy may have been reproduced at a size different than the original drawing. No responsibility is assumed for the use of incorrect scale. Drawings are not to be scaled.

South Carolina 811 Call 811 Before you Dig

NTS

PLOTTED: 8/3/2018 11:40:02 AM FILE NAME: \\CHS-FS\Data\JobsEven\31588.00\CV_dgn\plnsht-Phase 1B (1B)\Federal\31588.00-1B1-05-gcn.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	COLLETON	0041932	31588.00	SC 63	5A	

SOUTH JEFFERIES BLVD

PREPARED FOR:

CITY OF WALTERBORO
242 HAMPTON STREET
WALTERBORO, SOUTH CAROLINA 29488

I-95 BUSINESS LOOP PHASE 1B REFERENCE SHEET

Walterboro, South Carolina

DGN: LEK
R/W:
CHK: GTB

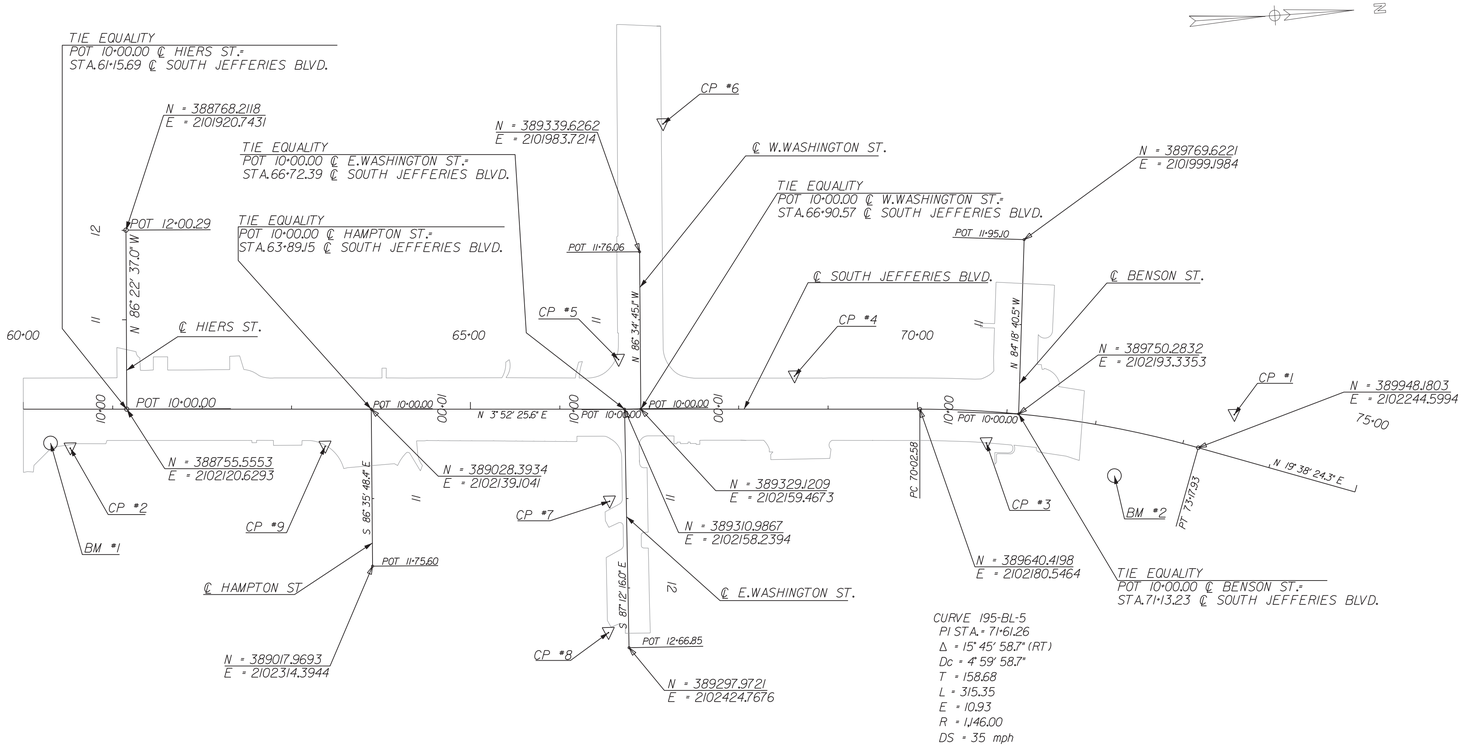
CONTROL POINTS

	NORTH	EAST	OFF.	STA.
CP1	389990.8390	2102210.4260	46.52' LT	73+46.62
CP2	388689.5610	2102159.8430	43.58' RT	60+52.50
CP3	389712.0603	2102223.2574	35.28' RT	70+79.36
CP4	389503.0448	2102134.2065	36.95' LT	68+62.39
CP5	389308.0471	2102102.4490	55.46' LT	66+65.69
CP6	389375.3417	2101842.8604	319.01' LT	67+15.30
CP7	389287.2330	2102259.9137	103.05' RT	66+55.56
CP8	389276.0814	2102406.4394	249.99' RT	66+54.34
CP9	388974.1192	2102177.1564	41.63' RT	63+37.58

BENCH MARKS (NAVD 88)

BM 1 SPIKE LP C-5901 21269 107, SOUTH JEFFERIES BLVD.
N = 388667.9650 E = 2102152.6193 Z = 72.82
STA. = 60+30.46 OFF. = 37.83' RT

BM 2 SPIKE LP 634427, SOUTH JEFFERIES BLVD.
N = 389852.5021 E = 2102269.4188 Z = 77.32
STA. = 72+32.16 OFF. = 52.47' RT



#	REVISION	DATE	BY

SHEET NUMBER
5A

DAVIS & FLOYD
SINCE 1954
WWW.DAVISFLOYD.COM

3228 W. MONTAGUE AVENUE
CHARLESTON, SC 29418
(843) 554-9002

This drawing copy may have been reproduced at a size different than the original drawing. No responsibility is assumed for the use of incorrect scale. Drawings are not to be scaled.

South Carolina 811 Call 811 Before you Dig

Wood+Partners Inc. WPi
Landscape Architects
Land Planners
612 S Copeland Street ■ Tallahassee, FL 32304
850.391.0360 ■ Fax 850.386.1010 ■ www.woodandpartners.com

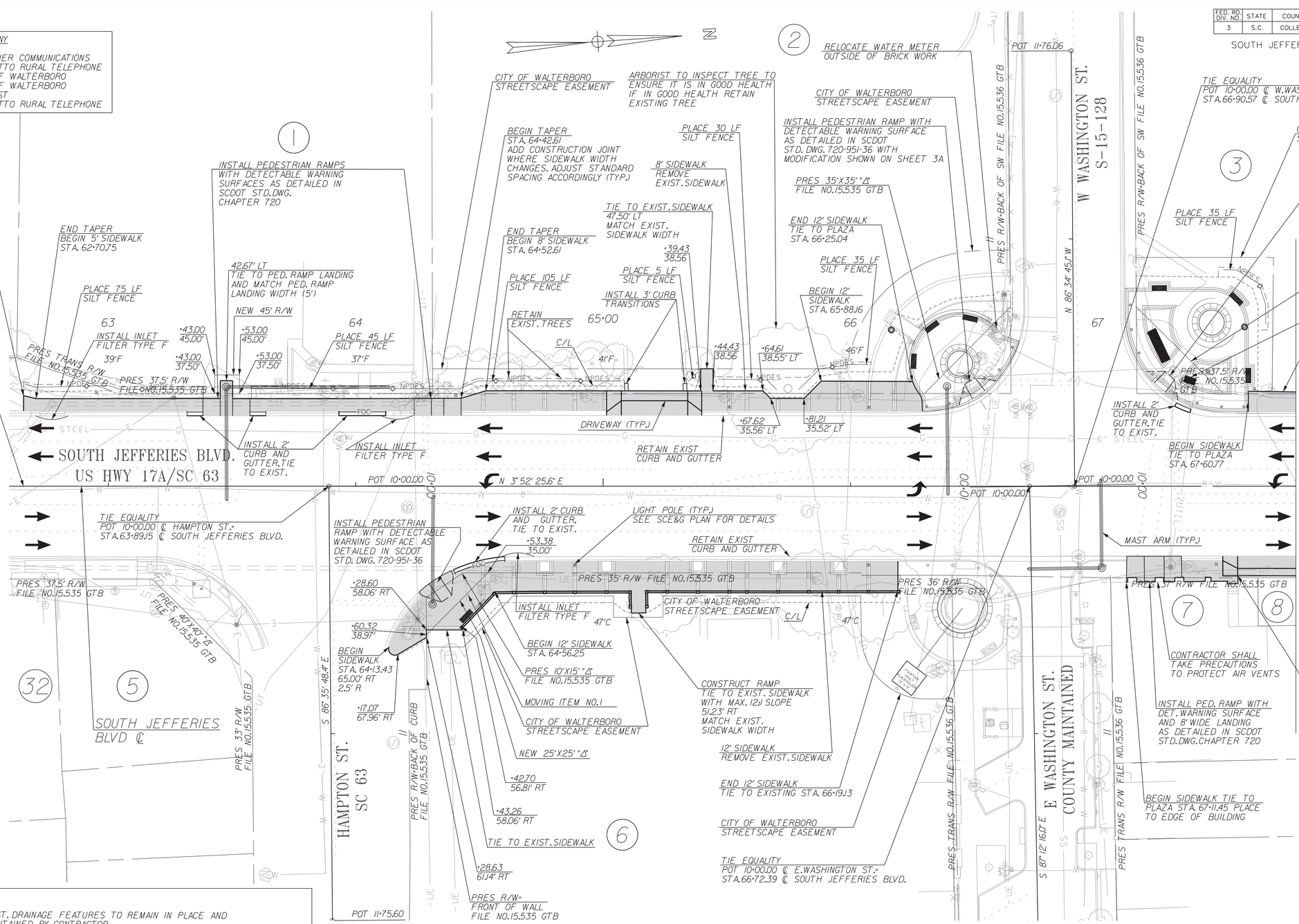
0 80 160 240 320
SCALE: 1"=80'

PLOTTED: 8/3/2018 11:40:09 AM FILE NAME: \\CHS-FS\Data\Jobs\Even\31588.00\CV_dgn\plnsht-Phase 1B (1B)\Federal\315880-1B\-05A-reference-1B.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	COLLETON	0041932	31588.00	SC 63	6	

SOUTH JEFFERIES BLVD

UTILITY	COMPANY
POWER	SCE&G
TELEPHONE	FRONTIER COMMUNICATIONS
TELEPHONE	PALMETTO RURAL TELEPHONE
SEWER	CITY OF WALTERBORO
WATER	CITY OF WALTERBORO
CABLE T.V.	COMCAST
CABLE T.V.	PALMETTO RURAL TELEPHONE



NOTES:

1. ALL EXIST. DRAINAGE FEATURES TO REMAIN IN PLACE AND BE MAINTAINED BY CONTRACTOR.
2. SEE SHEETS L1 AND L2 FOR LOCATIONS OF BRICK BANDS. TREE WELLS AND PLAZA DETAILS.
3. SEE SHEETS S1 AND S2 FOR WALL DETAILS AND UNDERDRAIN LOCATION. TIE UNDERDRAIN TO EXISTING CATCH BASIN AT STA. 64+65.
4. CONTRACTOR SHALL COORDINATE WITH SCE&G FOR LIGHTING INSTALLATION. FOR LIGHTS INSTALLED WITHIN THE SIDEWALK BEHIND CURB AND GUTTER, THERE SHALL BE A MINIMUM OF 6' BETWEEN THE LIGHT POLE AND BACK OF SIDEWALK. SEE DETAIL ON SHEET 3A.
5. CONTRACTOR IS RESPONSIBLE FOR TAP FEES AND CONNECTING FOUNTAIN TO POTABLE, SANITARY AND ELECTRIC. SEE SHEETS L7, L8 AND L20-L30 FOR FOUNTAIN DETAILS.

DAVIS & FLOYD
SINCE 1954
WWW.DAVISFLOYD.COM
3279 M. MONTAGUE AVENUE
CHARLESTON, SC 29418
(843) 554-8602

This drawing copy may have been reproduced at a size different than the original drawing. No responsibility is assumed for the use of incorrect scale. Drawings are not to be scaled.

South Carolina 811 Call 811 Before you Dig

Wood+Partners Inc. WPi
Landscape Architects
Land Planners
612 S Copeland Street ■ Tallahassee, FL 32304
850.391.0360 ■ Fax 850.386.1010 ■ www.woodandpartners.com

0 20 40 60 80
SCALE: 1"=20'

PREPARED FOR:
CITY OF WALTERBORO
242 HAMPTON STREET
WALTERBORO, SOUTH CAROLINA 29488

I-95 BUSINESS LOOP PHASE 1B PLAN SHEET

Walterboro, South Carolina

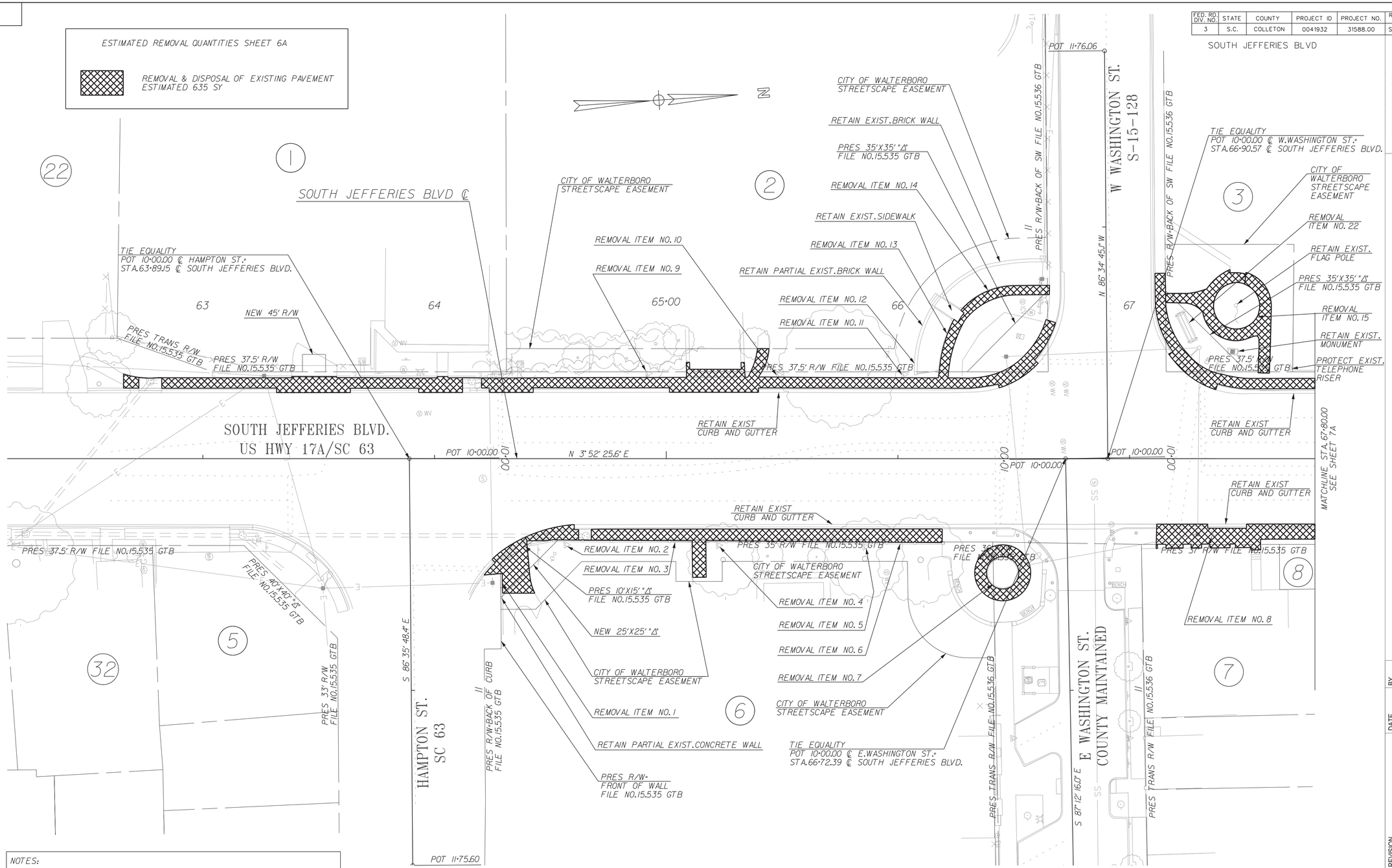
DGN: LEK
R/W:
CHK: GTB

#	REVISION	DATE	BY

SHEET NUMBER
6

PLOTTED: 8/31/2018 11:40:14 AM FILE NAME: \\CHS-FS1\Data\Jobs\Even\31588-00\CV_dgn\plnsht-Phase 1B (1B)\Federal\31588-00-1B-6-sht.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	COLLETON	0041932	31588.00	SC 63	6A	



NOTES:

1. ALL EXIST. DRAINAGE FEATURES TO REMAIN IN PLACE AND BE MAINTAINED BY CONTRACTOR.
2. ALL REMOVAL AREAS SHOWN TO BE PAID FOR AS REMOVAL & DISPOSAL OF EXISTING PAVEMENT.
3. REMOVAL & DISPOSAL OF EXISTING PAVEMENT INCLUDES REMOVAL AND DISPOSAL OF EXISTING SIDEWALK AND CURB AND GUTTER.
4. TREE PROTECTION FENCING SHALL BE PROVIDED AND PROPER MITIGATION PLAN PROVIDED AND IMPLEMENTED BY ISA CERTIFIED MASTER ARBORIST PRIOR TO ANY CONSTRUCTION. SEE "L" SERIES PLANS FOR ADDITIONAL INFORMATION.

DAVIS & FLOYD
SINCE 1954
WWW.DAVISFLOYD.COM
3229 W MONTEAGE AVENUE
CHARLESTON, SC 29486
(843) 534-8602

This drawing copy may have been reproduced at a size different than the original drawing. No responsibility is assumed for the use of incorrect scale. Drawings are not to be scaled.

South Carolina 811 Call 811 Before you Dig

Wood+Partners Inc. WPi
Landscape Architects
Land Planners
612 S Copeland Street ■ Tallahassee, FL 32304
850.391.0360 ■ Fax 850.386.1010 ■ www.woodandpartners.com

0 20 40 60 80
SCALE: 1"=20'

PREPARED FOR:
CITY OF WALTERBORO
242 HAMPTON STREET
WALTERBORO, SOUTH CAROLINA 29488

I-95 BUSINESS LOOP PHASE 1B REMOVAL SHEET

Walterboro, South Carolina

DGN: LEK
R/W:
CHK: GTB

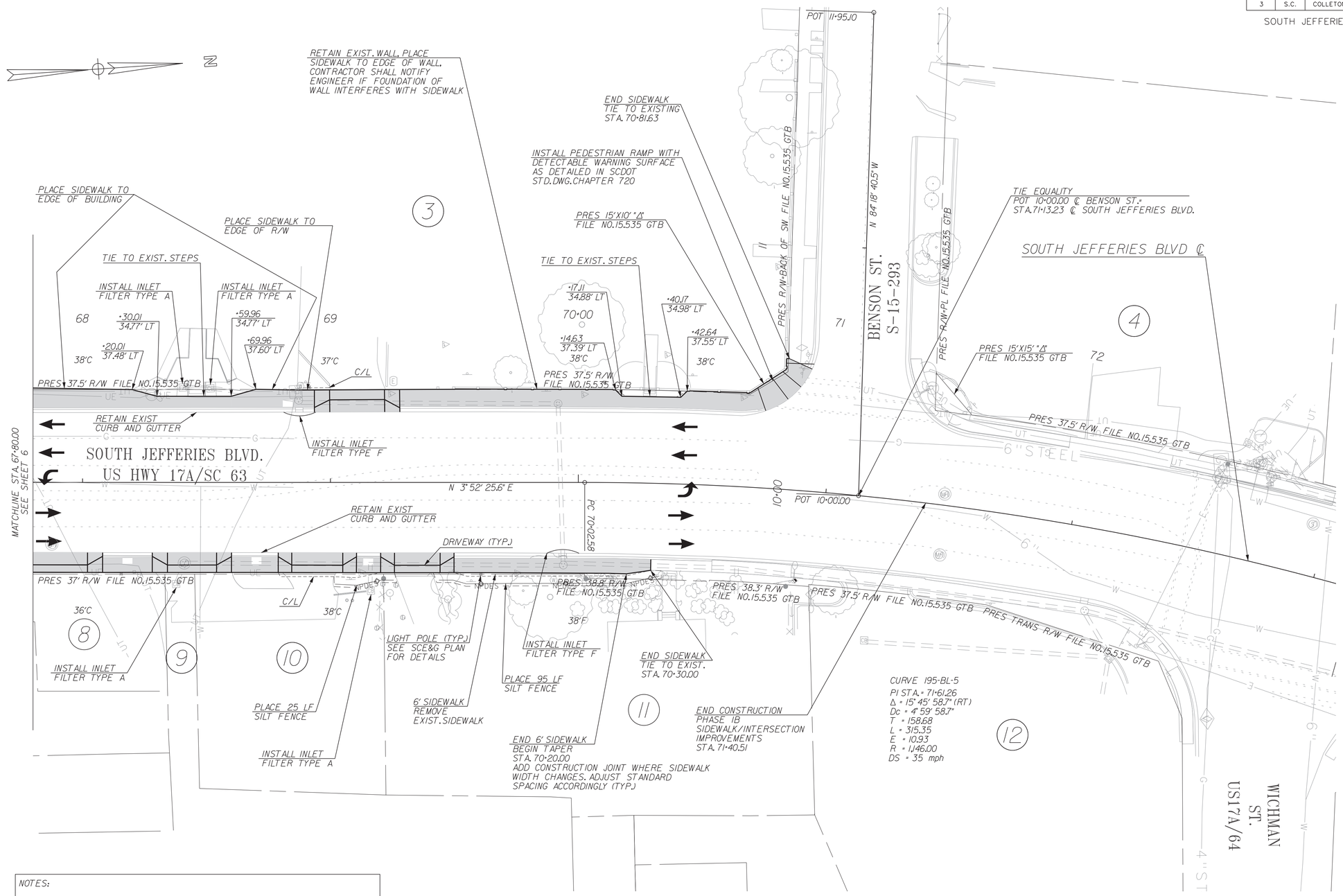
#	REVISION	DATE	BY

SHEET NUMBER
6A

PLOTTED: 8/3/2018 11:40:20 AM FILE NAME: \\CHS-FS\Data\Jobs\Even\31588-00\CV_dgn\plnsht-Phase 1B (1B)\Federal\31588-00-1B-6A-sht.dgn

FED. RD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	COLLETON	0041932	31588.00	SC 63	7	

SOUTH JEFFERIES BLVD



NOTES:

1. ALL EXIST. DRAINAGE FEATURES TO REMAIN IN PLACE AND BE MAINTAINED BY CONTRACTOR.
2. SEE SHEETS L1 AND L2 FOR LOCATIONS OF BRICK BANDS, TREE WELLS AND PLAZA DETAILS.
3. CONTRACTOR SHALL COORDINATE WITH SCE&G FOR LIGHTING INSTALLATION. FOR LIGHTS INSTALLED WITHIN THE SIDEWALK BEHIND CURB AND GUTTER, THERE SHALL BE A MINIMUM OF 6' BETWEEN THE LIGHT POLE AND BACK OF SIDEWALK. SEE DETAIL ON SHEET 3A.

DAVIS & FLOYD
SINCE 1954
WWW.DAVISFLOYD.COM
3729 B MONTAGUE AVENUE
CHARLESTON, SC 29418
(843) 554-8602

This drawing copy may have been reproduced at a size different than the original drawing. No responsibility is assumed for the use of incorrect scale. Drawings are not to be scaled.

South Carolina 811 Call 811 Before you Dig

Wood+Partners Inc. WPi
Landscape Architects
Land Planners
612 S Copeland Street ■ Tallahassee, FL 32304
850.391.0360 ■ Fax 850.386.1010 ■ www.woodandpartners.com

0 20 40 60 80
SCALE: 1"=20'

PREPARED FOR:
CITY OF WALTERBORO
242 HAMPTON STREET
WALTERBORO, SOUTH CAROLINA 29488

I-95 BUSINESS LOOP PHASE 1B PLAN SHEET

Walterboro, South Carolina

DGN: LEK
R/W:
CHK: GTB

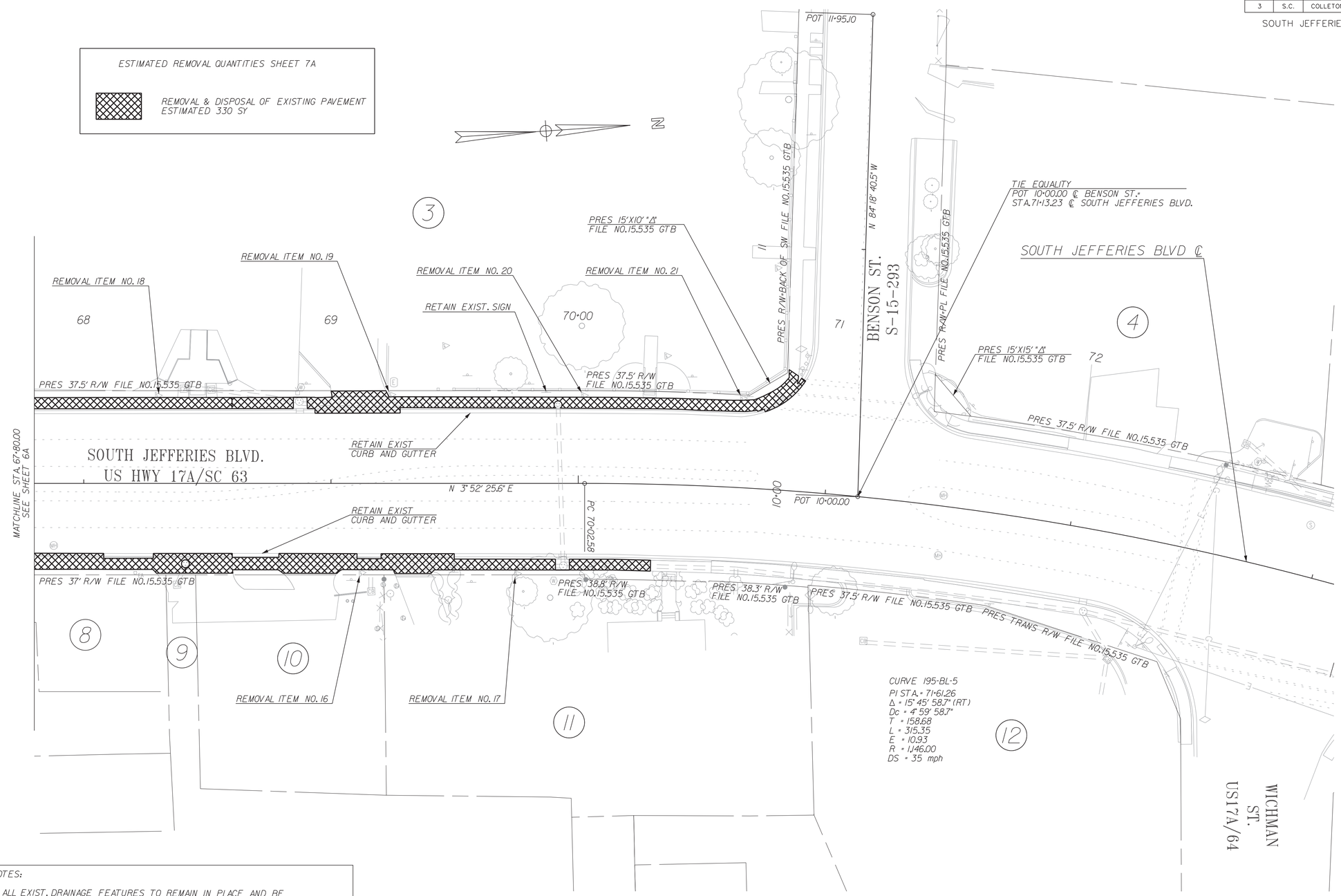
#	REVISION	DATE	BY

SHEET NUMBER
7

PLOTTED: 8/3/2018 11:40:22 AM FILE NAME: \\CHS-FS\Data\Jobs\Even\31588-00\CV_dgn\plnsht-Phase 1B (1B)\Federal\31588-00-1B-T-sht.dgn

FED. RD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	COLLETON	0041932	31588.00	SC 63	7A	

SOUTH JEFFERIES BLVD



NOTES:

1. ALL EXIST. DRAINAGE FEATURES TO REMAIN IN PLACE AND BE MAINTAINED BY CONTRACTOR.
2. ALL REMOVAL AREAS SHOWN TO BE PAID FOR AS REMOVAL & DISPOSAL OF EXISTING PAVEMENT.
3. REMOVAL & DISPOSAL OF EXISTING PAVEMENT INCLUDES REMOVAL AND DISPOSAL OF EXISTING SIDEWALK AND CURB AND GUTTER.
4. TREE PROTECTION FENCING SHALL BE PROVIDED AND PROPER MITIGATION PLAN PROVIDED AND IMPLEMENTED BY ISA CERTIFIED MASTER ARBORIST PRIOR TO ANY CONSTRUCTION. SEE "L" SERIES PLANS FOR ADDITIONAL INFORMATION.

DAVIS & FLOYD
SINCE 1954
WWW.DAVISFLOYD.COM
3228 W. MONTAGUE AVENUE
CHARLESTON, S.C. 29418
(843) 554-8602

This drawing copy may have been reproduced at a size different than the original drawing. No responsibility is assumed for the use of incorrect scale. Drawings are not to be scaled.

South Carolina 811 Call 811 Before you Dig

Wood+Partners Inc. WPi
Landscape Architects
Land Planners
612 S Copeland Street ■ Tallahassee, FL 32304
850.391.0360 ■ Fax 850.386.1010 ■ www.woodandpartners.com

0 20 40 60 80
SCALE: 1"=20'

PREPARED FOR:
CITY OF WALTERBORO
242 HAMPTON STREET
WALTERBORO, SOUTH CAROLINA 29488

I-95 BUSINESS LOOP PHASE 1B REMOVAL SHEET

Walterboro, South Carolina

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 20214 8/3/2018 GEORGE TILLEY, III

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL DAVIS & FLOYD, INC. No. C-0205.58 CERTIFICATE OF AUTHORITY

DGN: LEK
R/W:
CHK: GTB

#	REVISION	DATE	BY

SHEET NUMBER
7A

PLOTTED: 8/3/2018 11:40:25 AM FILE NAME: \\CHS-FS\Data\Jobs\Even\31588-00\CV_dgn\plnsht-Phase 1B (1B)\Federal\31588-00-1B-7A-sht.dgn

FED. RD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	COLLETON	00419032	02-14011	SC 63		

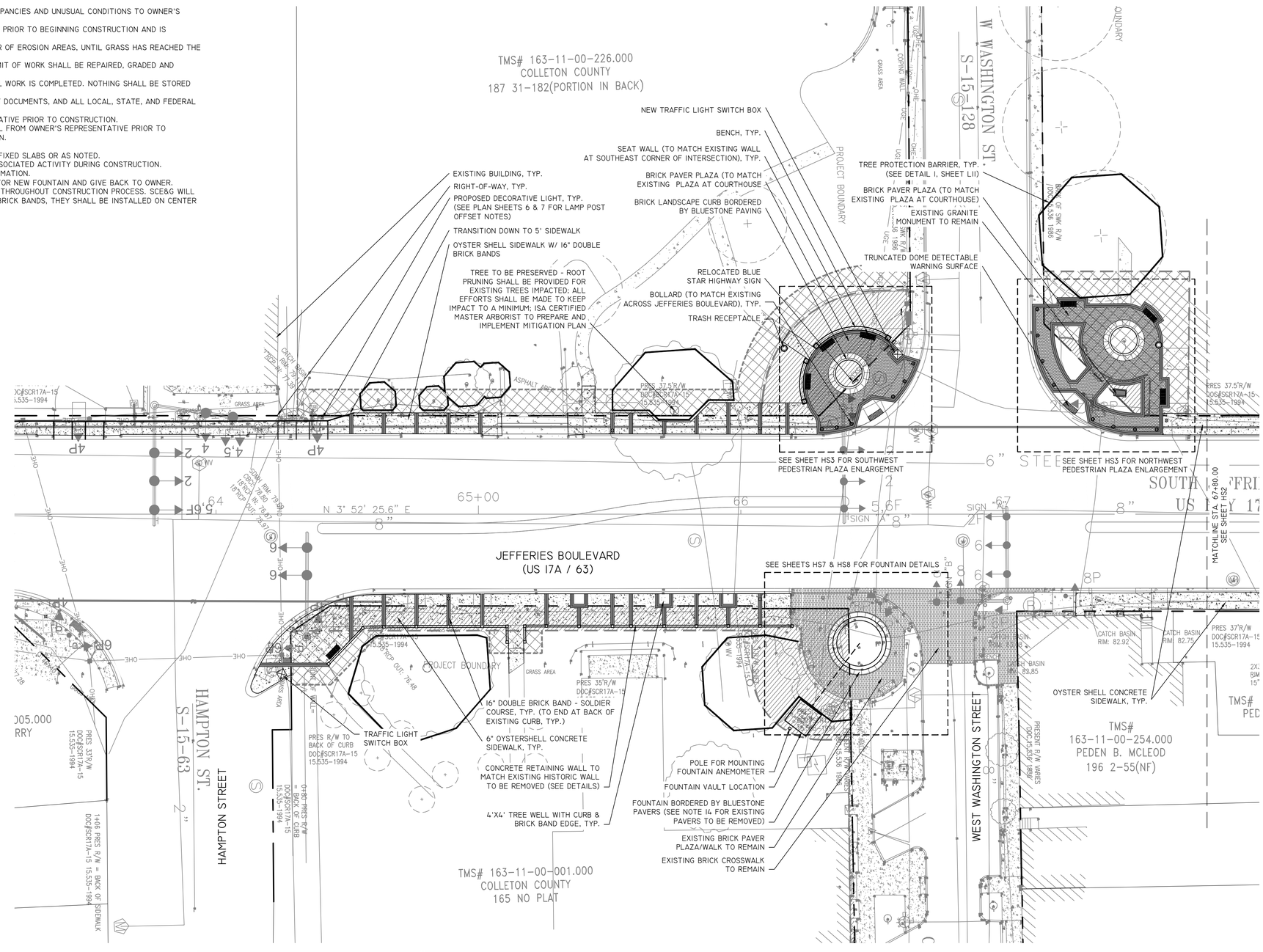
GENERAL SITE PLAN AND LAYOUT NOTES:

1. THE CONTRACTOR SHALL WORK CLOSELY WITH THE OWNER'S REPRESENTATIVE AND NOTIFY HIM AS ADDITIONAL INFORMATION IS NEEDED TO PROPERLY CONSTRUCT/INSTALL/BUILD ELEMENTS DEPICTED HEREIN.
2. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES AND UNUSUAL CONDITIONS TO OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
3. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND VERIFYING ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION AND IS RESPONSIBLE FOR ANY DAMAGE TO THEM DURING CONSTRUCTION.
4. THE CONTRACTOR SHALL MAINTAIN ALL GRASSED AREAS, INCLUDING THE REPAIR OF EROSION AREAS, UNTIL GRASS HAS REACHED THE LEVEL OF FINAL ACCEPTANCE.
5. ALL AREAS THAT ARE DISTURBED BY CONSTRUCTION INSIDE OR OUTSIDE THE LIMIT OF WORK SHALL BE REPAIRED, GRADED AND GRASSED AT THE CONTRACTOR'S EXPENSE.
6. TREE PROTECTION FENCES SHALL BE MAINTAINED IN PLACE AT ALL TIMES UNTIL WORK IS COMPLETED. NOTHING SHALL BE STORED WITHIN THE FENCES.
7. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, AND ALL LOCAL, STATE, AND FEDERAL AGENCIES AND REGULATIONS.
8. ALL FIELD ADJUSTMENTS SHALL RECEIVE APPROVAL FROM OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
9. CONTRACTOR SHALL STAKE ALL WORK TO BE COMPLETED AND OBTAIN APPROVAL FROM OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE RESOLVED PRIOR TO CONSTRUCTION.
10. ALL CONCRETE SHALL BE 3000 PSI UNLESS OTHERWISE NOTED.
11. CONSTRUCT EXPANSION JOINTS WHERE WALKS MEET CURBS, STEPS, WALLS, OR FIXED SLABS OR AS NOTED.
12. CONTRACTOR SHALL PROTECT THE PUBLIC FROM CONSTRUCTION AREAS AND ASSOCIATED ACTIVITY DURING CONSTRUCTION.
13. CONTRACTOR SHALL PROVIDE TREE PROTECTION. SEE DETAILS FOR MORE INFORMATION.
14. CONTRACTOR SHALL PRESERVE EXISTING BLUESTONE PAVERS TO BE REMOVED FOR NEW FOUNTAIN AND GIVE BACK TO OWNER.
15. CONTRACTOR SHALL COORDINATE LIGHTING CLOSELY WITH SCE&G BEFORE AND THROUGHOUT CONSTRUCTION PROCESS. SCE&G WILL BE INSTALLING DECORATIVE LIGHTING. WHERE STREET LIGHTS ARE PROPOSED ON BRICK BANDS, THEY SHALL BE INSTALLED ON CENTER OF BRICK BAND AND OFFSET PER NOTES ON PLAN SHEETS 6 & 7.

X — DETAIL NUMBER
XX — SHEET NUMBER

SCHEDULE OF ITEMS:

- TRASH RECEPTACLE (4/L6)
- BOLLARD (3/L6)
- BENCH (1/L6)
- BRICK COLUMN AND WALL (4/L6)
- HISTORIC CONCRETE WALL (2/L6)
- OYSTER SHELL SIDEWALK W/ 16" DOUBLE BRICK BANDS (3/L5) (5/L5)
- OYSTER SHELL SIDEWALK NO BRICK BANDS (4/L5)
- TREE WELL IN OYSTER SHELL SIDEWALK W/ BRICK BANDS (1/L5) (2/L11)
- TREE WELL IN OYSTER SHELL SIDEWALK NO BRICK BANDS (2/L5) (2/L11)
- BRICK PAVER PLAZA (2/L4) (3/L4)
- BRICK LANDSCAPE CURB & BLUESTONE PAVING (3/L4) (4/L4)
- TRUNCATED DOME DETECTABLE WARNING SURFACE, TYP.
- FOUNTAIN (SEE FOUNTAIN PLANS) (1/L7) (2/L7) (1/L8)
- TREE PROTECTION BARRIER (1/L7)
- DECORATIVE STREET LIGHT (SEE PLAN SHEETS 6 & 7 REGARDING LAMP POST OFFSET NOTES; REFERENCE SCE&G PLANS)



PREPARED FOR:
CITY OF WALTERBORO
242 HAMPTON STREET
WALTERBORO, SOUTH CAROLINA 29488

I-95 BUSINESS LOOP PHASES 1B

Walterboro, South Carolina

DGN: BH/KH
R/W: CJ
CHK: MB

#	REVISION	DATE	BY

SHEET NUMBER
LI

DAVIS & FLOYD
SINCE 1954
WWW.DAVISFLOYD.COM

NOT FOR CONSTRUCTION
This drawing copy may have been reproduced at a size different than the original drawing. No responsibility is assumed for the use of incorrect scale. Drawings are not to be scaled.

South Carolina 811 Call 811 Before you Dig

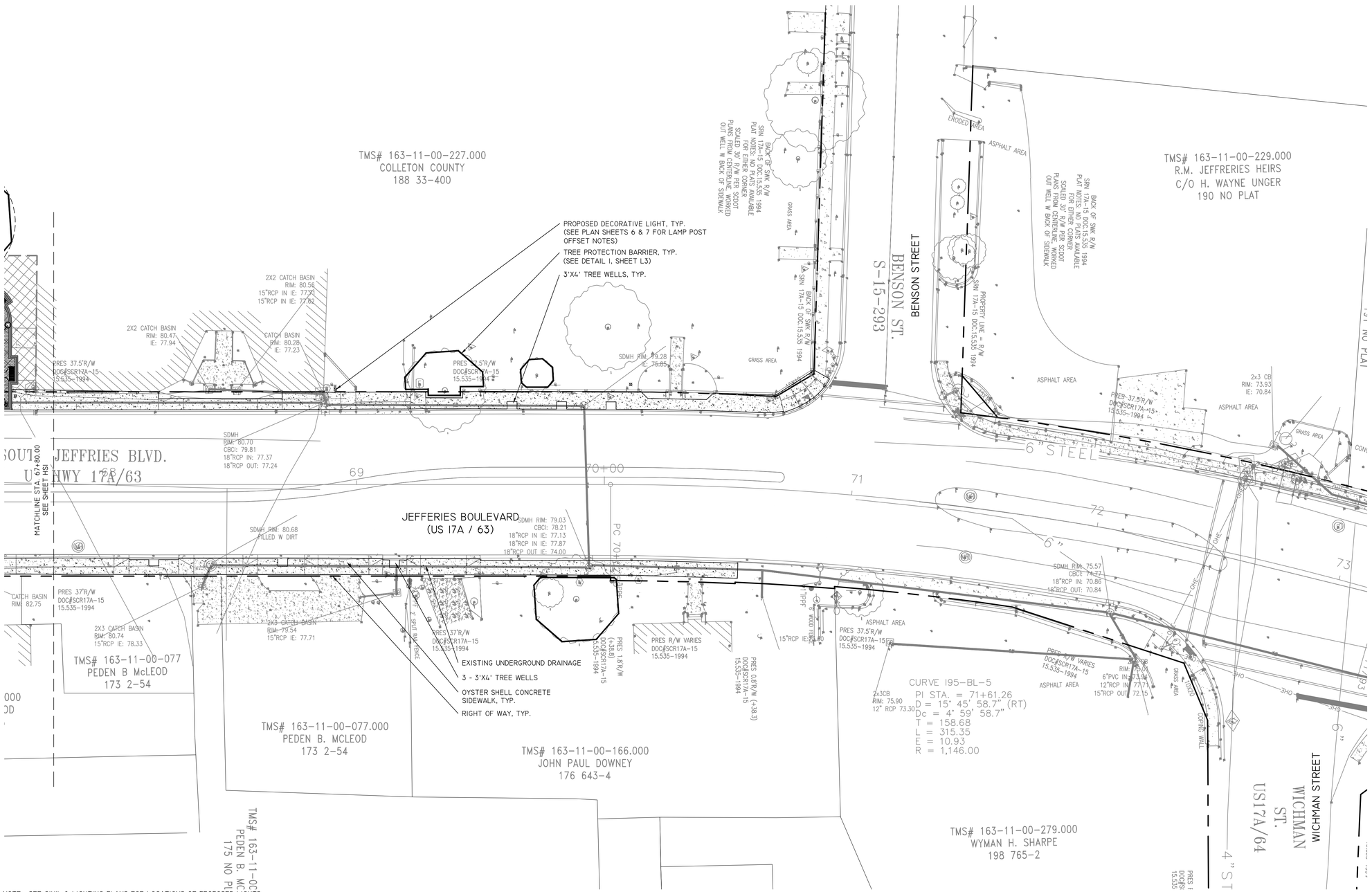
Wood+Partners Inc. WPi
Landscape Architects Land Planners
1211 Miccosukee Road ■ Tallahassee, FL 32308
850.391.0350 ■ Fax 850.386.1010 ■ www.woodandpartners.com

0 10' 20' 40' 60' 80'
SCALE: 1" = 20'

NORTH

Z:\Projects-TLH\URBAN\Walterboro\WalterboroBusLpImprvCD-021301\5\Production\Work CD\a021301\5_basePh1BMERGE.dwg 5/8/2018 4:10:46 PM BOBBY BOONE

FED. RD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	COLLETON	0041932	02-14011	SC 63		



NOTE: SEE CIVIL & LIGHTING PLANS FOR LOCATIONS OF PROPOSED LIGHTS.

DAVIS & FLOYD

SINCE 1954

WWW.DAVISFLOYD.COM

1728 W. MONTAGUE AVENUE
NORTH CHARLESTON, SC 29405-7416
(843) 554-8602

NOT FOR CONSTRUCTION

This drawing copy may have been reproduced at a size different than the original drawing. No responsibility is assumed for the use of incorrect scale. Drawings are not to be scaled.

South Carolina 811 — Call 811 Before you Dig

Wood+Partners Inc. WPi
Landscape Architects
Land Planners
1211 Miccosukee Road ■ Tallahassee, FL 32308
850.391.0360 ■ Fax 850.386.1010 ■ www.woodandpartners.com

0 10' 20' 40' 60' 80'
SCALE: 1" = 20'

NORTH

PREPARED FOR:
CITY OF WALTERBORO
242 HAMPTON STREET
WALTERBORO, SOUTH CAROLINA 29488

I-95 BUSINESS LOOP PHASES 1B

Walterboro, South Carolina

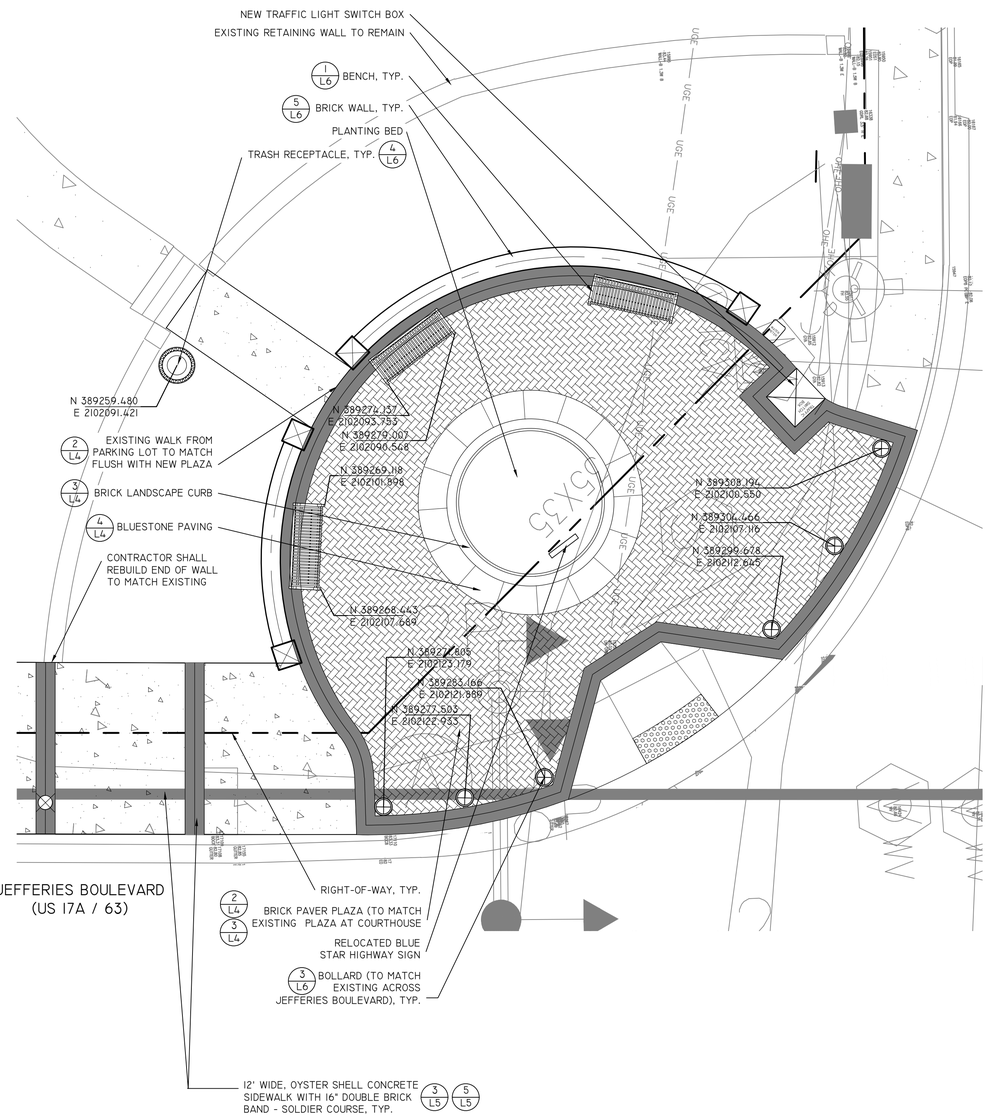
DGN: BH/KH
R/W: CJ
CHK: MB

#	REVISION	DATE	BY

SHEET NUMBER
L2

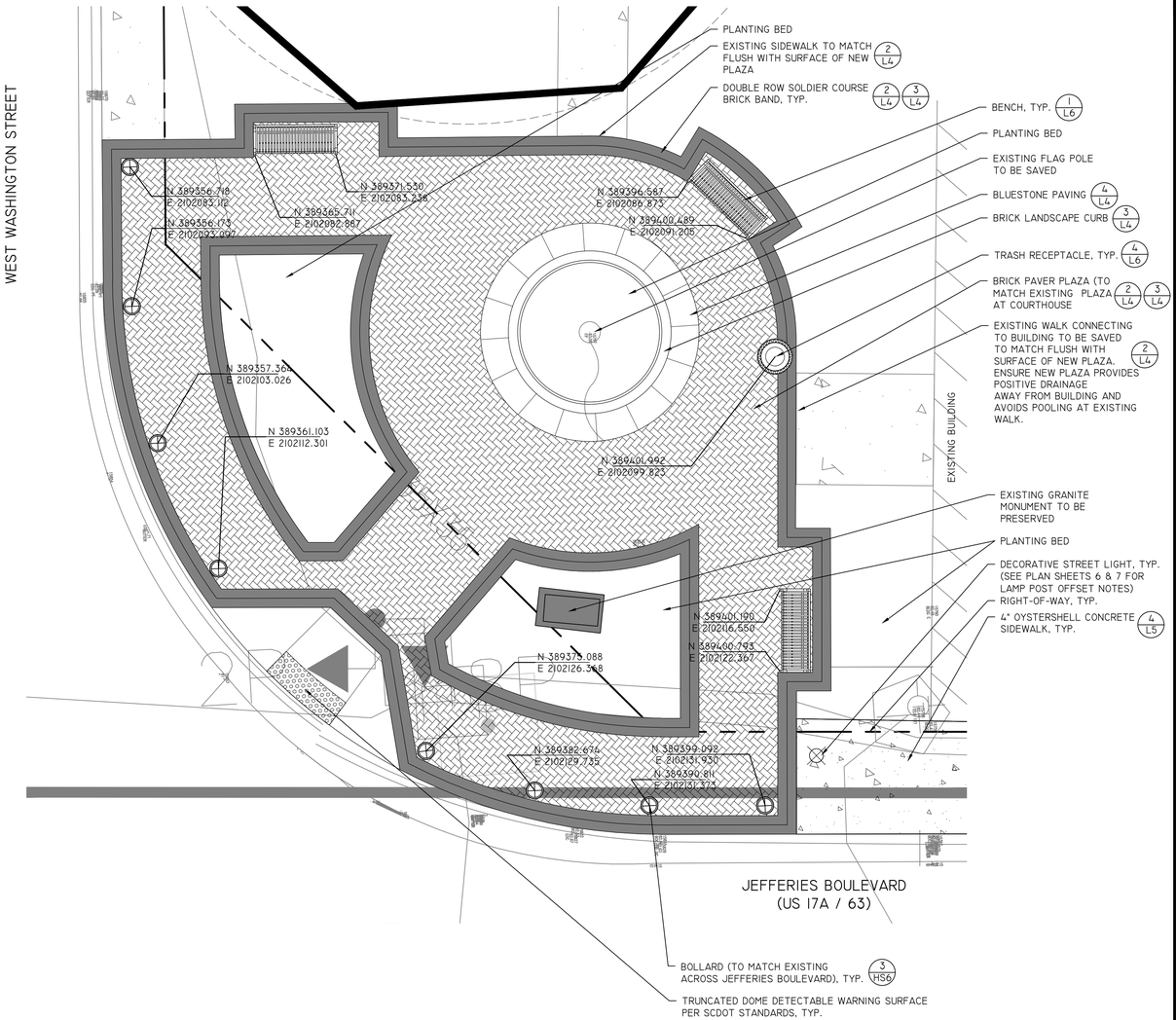
Z:\Projects-TL\HURBAN\Walterboro\WalterboroBusLpImprvCD-02\13015\Production\Work CD's\02\13015_basePh1BMERGE.dwg 5/8/2018 4:10:46 PM BOBBY BOONE

FED. RD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	COLLETON	0041932	02-14011	SC 63		



SOUTHWEST PEDESTRIAN PLAZA ENLARGEMENT

(SEE L4-L6 FOR DETAILS)



NORTHWEST PEDESTRIAN PLAZA ENLARGEMENT

(SEE L4-L6 FOR DETAILS)

PREPARED FOR:

CITY OF WALTERBORO
243 HAMPTON STREET
WALTERBORO, SOUTH CAROLINA 29488

I-95 BUSINESS LOOP PHASES 1B

Walterboro, South Carolina

DGN: BH/KH
R/W: CJ
CHK: MB

#	REVISION	DATE	BY

DAVIS & FLOYD
SINCE 1954
WWW.DAVISFLOYD.COM

1328 B. MONTAGUE AVENUE
CAYCE, S.C. 29033-4918
(843) 554-8602

NOT FOR CONSTRUCTION

This drawing copy may have been reproduced at a size different than the original drawing. No responsibility is assumed for the use of incorrect scale. Drawings are not to be scaled.

South Carolina 811 Call 811 Before you Dig

Wood+Partners Inc. WPi
Landscape Architects
Land Planners
1211 Miccosukee Road ■ Tallahassee, FL 32308
850.391.0360 ■ Fax 850.386.1010 ■ www.woodandpartners.com

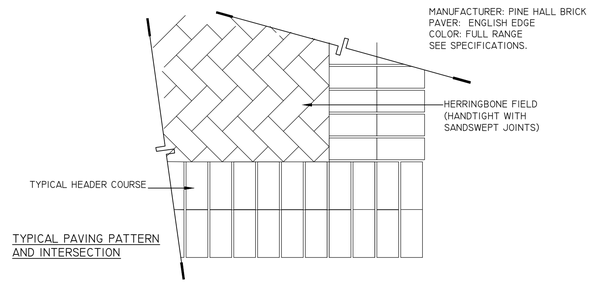
0 2.5' 5' 10' 15' 20'
SCALE: 1" = 5'

NORTH

SHEET NUMBER
L3

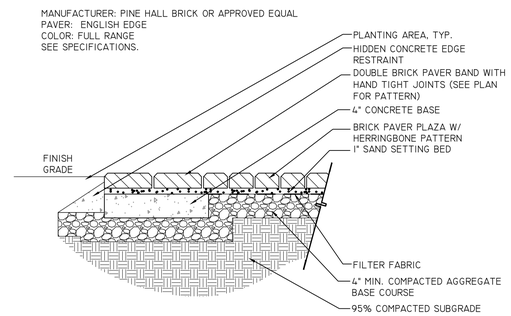
Z:\Projects-TLH\URBAN\Walterboro\WalterboroBusLp\mpr\CD-021301S\Production\Work CD's\021301S_basePh1BMERGE.dwg 5/8/2018 4:10:46 PM BOBBY BOONE

FED. RD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	COLLETON	0041932	02-14011	SC 63		



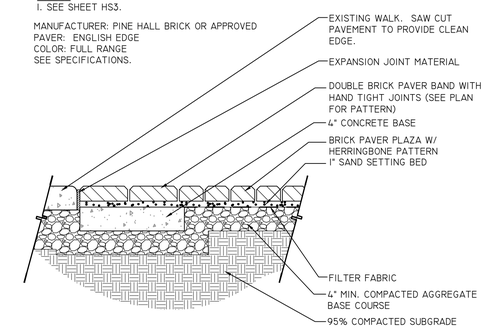
1 / L4 ADA FLUSH CURB AT PEDESTRIAN PLAZAS
SCALE: 3/8" = 1'-0"

NOTES:
1. SEE SHEET HS3.



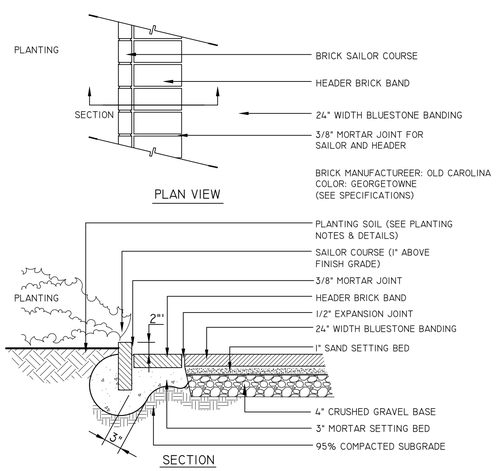
BRICK EDGE AT PLANTER

NOTES:
1. SEE SHEET HS3.

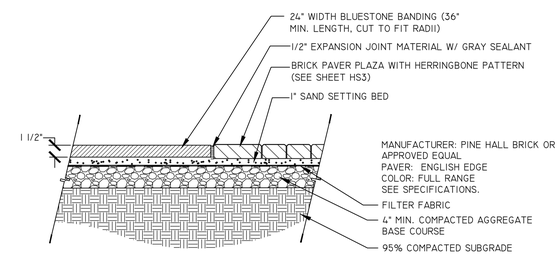


BRICK EDGE AT CONC. WALK/BLDG

2 / L4 PEDESTRIAN PLAZA PAVERS
SCALE: 3/4" = 1'-0"



3 / L4 BRICK LANDSCAPE CURB
SCALE: 1" = 1' - 0"



4 / L4 BLUESTONE PAVING IN PEDESTRIAN PLAZAS
SCALE: 3/4" = 1'-0"

PREPARED FOR:
CITY OF WALTERBORO
242 HAMPTON STREET
WALTERBORO, SOUTH CAROLINA 29488

I-95 BUSINESS LOOP PHASES 1B
Walterboro, South Carolina

SOUTH CAROLINA LANDSCAPE ARCHITECT REGISTERED No. 276 MARK BAKER

DGN: BH/KH
R/W: CJ
CHK: MB

#	REVISION	DATE	BY

SHEET NUMBER
L4

DAVIS & FLOYD
SINCE 1954
WWW.DAVISFLOYD.COM
3228 W. MONTAGUE AVENUE
CHARLESTON, SC 29418
(843) 554-8602

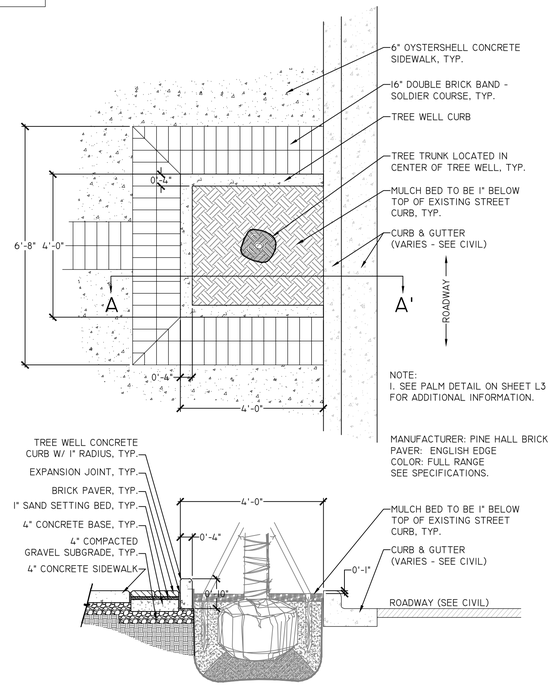
NOT FOR CONSTRUCTION
This drawing copy may have been reproduced at a size different than the original drawing. No responsibility is assumed for the use of incorrect scale. Drawings are not to be scaled.

South Carolina 811 Call 811 Before you Dig

Wood+Partners Inc. WPI
Landscape Architects
Land Planners
1211 Miccosukee Road ■ Tallahassee, FL 32308
850.391.0360 ■ Fax 850.386.1010 ■ www.woodandpartners.com

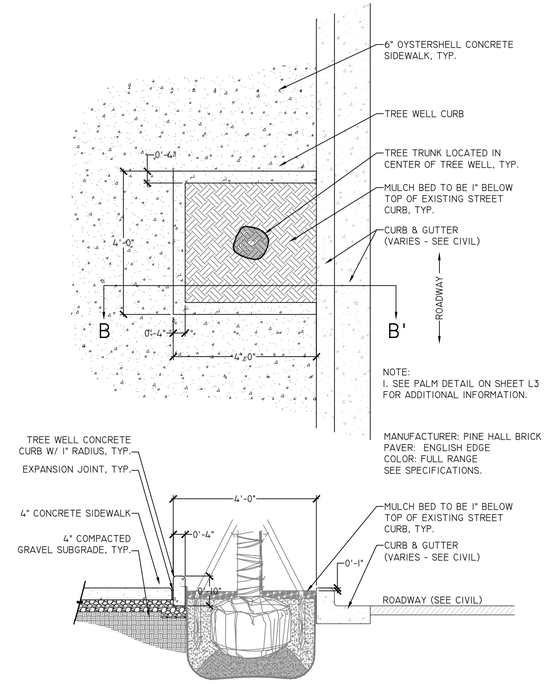
Z:\Projects-TL\HURBAN\Walterboro\WalterboroBus_plmprvCD-0213015\Production\Work CDs\0213015_basedetailsPh1B.dwg 3/19/2018 5:06:31 PM BOBBY BOONE

FED. RD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	COLLETON	0041932	02-14011	SC 63		



SECTION A-A'

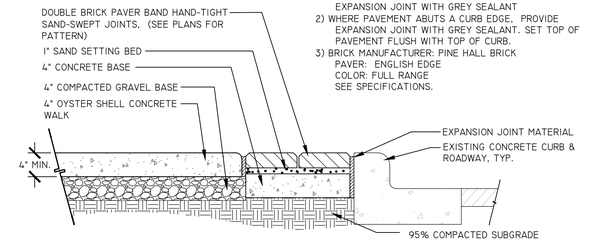
1 / L5 BRICK PAVING AT TREE WELL
SCALE: 1/2" = 1'-0"



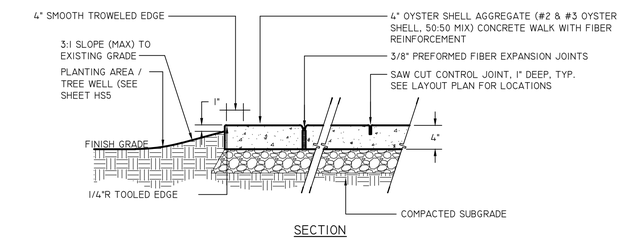
SECTION B-B'

2 / L5 CONCRETE PAVING AT TREE WELL
SCALE: 1/2" = 1'-0"

NOTES:
1) WHERE PAVEMENT ABUTS STRUCTURE, PROVIDE 1/2" EXPANSION JOINT WITH GREY SEALANT
2) WHERE PAVEMENT ABUTS A CURB EDGE, PROVIDE EXPANSION JOINT WITH GREY SEALANT. SET TOP OF PAVEMENT FLUSH WITH TOP OF CURB.
3) BRICK MANUFACTURER: PINE HALL BRICK
PAVER: ENGLISH EDGE
COLOR: FULL RANGE
SEE SPECIFICATIONS.

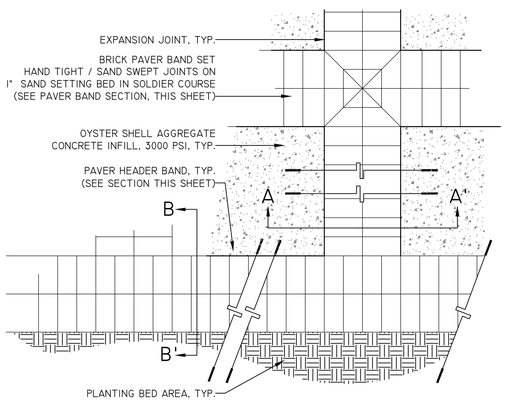


3 / L5 BRICK ACCENT BANDING
SCALE: 1" = 1'-0"



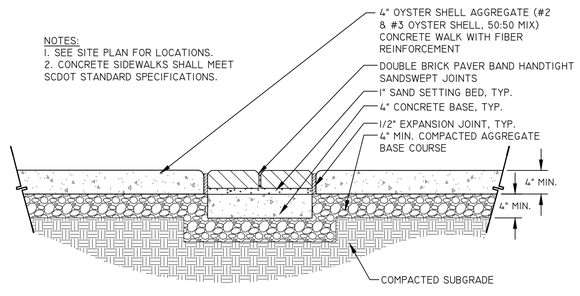
SECTION

4 / L5 OYSTER SHELL CONCRETE WALK
SCALE: 1" = 1'-0"



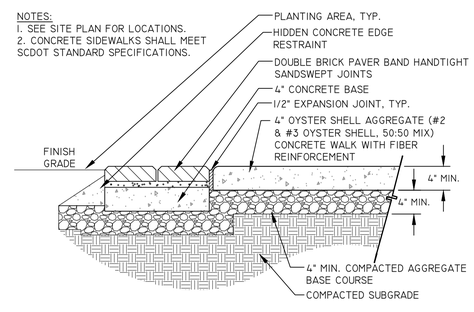
PLAN - PAVER BAND IN CONCRETE FIELD
SCALE: 1" = 1'-3"

NOTES:
1. SEE SITE PLAN FOR LOCATIONS.
2. CONCRETE SIDEWALKS SHALL MEET SCDOT STANDARD SPECIFICATIONS.



A-A' - PAVER BAND IN CONCRETE FIELD
SCALE: 1" = 1'-0"

NOTES:
1. SEE SITE PLAN FOR LOCATIONS.
2. CONCRETE SIDEWALKS SHALL MEET SCDOT STANDARD SPECIFICATIONS.



B-B' - PAVER HEADER BAND AT PLANTING AREA
SCALE: 1" = 1'-0"

SAMPLE IMAGE OF OYSTERSHELL CONCRETE WITH SOLDIER COURSE BRICK PAVERS (NOT TO SCALE)

NOTE: CONTRACTOR SHALL SUBMIT OYSTER SHELL CONCRETE MIX QUALITY SAMPLE TO OWNER FOR APPROVAL PRIOR TO CONSTRUCTION.

5 / L5 OYSTERSHELL CONCRETE AND BRICK PAVER BAND DETAILS
SCALE: SEE ABOVE

DAVIS & FLOYD
SINCE 1954
WWW.DAVISFLOYD.COM
3728 B. MONTAGUE AVENUE
CHARLESTON, SC 29418
(843) 554-8602

NOT FOR CONSTRUCTION

This drawing copy may have been reproduced at a size different than the original drawing. No responsibility is assumed for the use of incorrect scale. Drawings are not to be scaled.

South Carolina 811 Call 811 Before you Dig
Wood+Partners Inc. WPi
Landscape Architects Land Planners
1211 Miccosukee Road ■ Tallahassee, FL 32308
850.391.0360 ■ Fax 850.386.1010 ■ www.woodandpartners.com

PREPARED FOR:
CITY OF WALTERBORO
242 HAMPTON STREET
WALTERBORO, SOUTH CAROLINA 29488

I-95 BUSINESS LOOP PHASES 1B

Walterboro, South Carolina

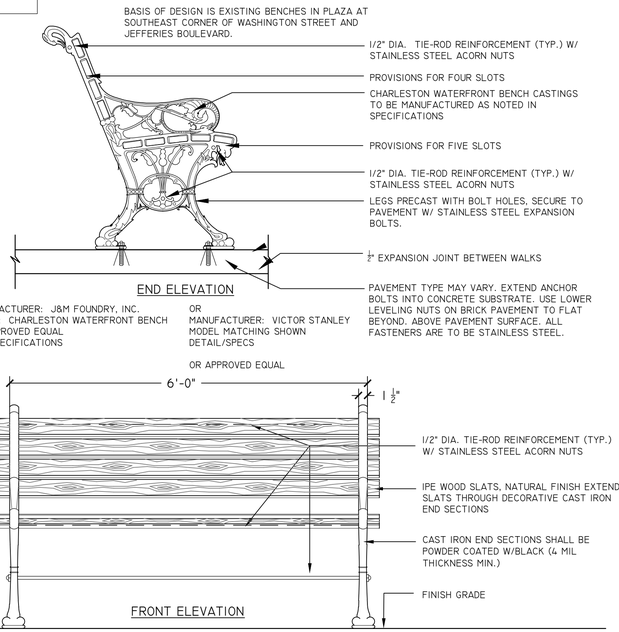
DGN: BH/KH
R/W: CJ
CHK: MB

#	REVISION	DATE	BY

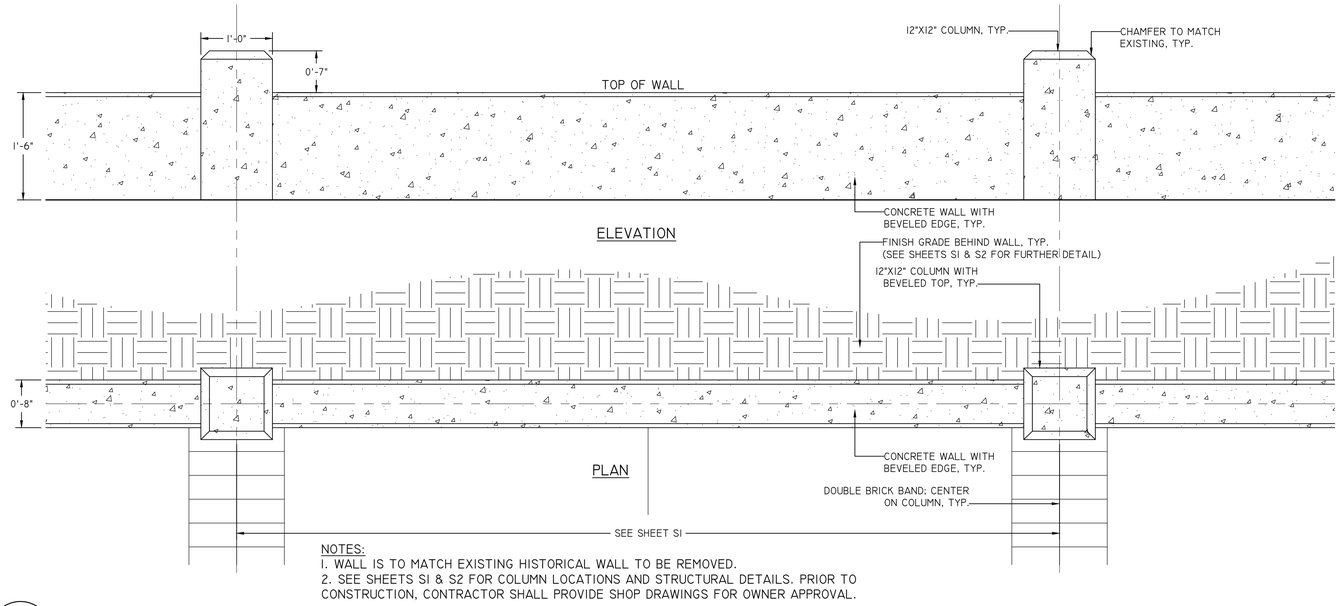
SHEET NUMBER
L5

Z:\Projects-TL\URBAN\Walterboro\WalterboroBusLpImprvCD-0213015\Production\Work CDs\0213015_basedetailsPh1B.dwg 3/19/2016 5:06:31 PM BOBBY BOONE

FED. RD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	COLLETON	0041932	02-14011	SC 63		

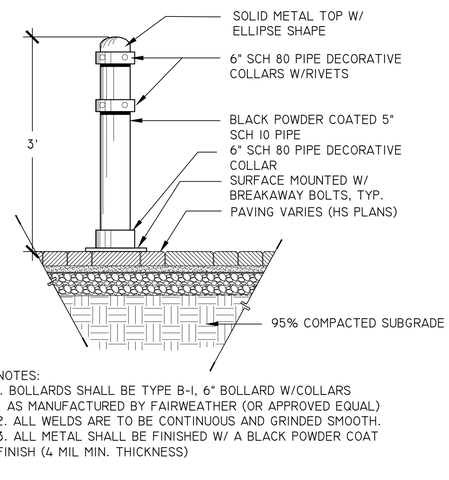


1 / L6 BENCH DETAIL
SCALE: 1" = 1'-0"



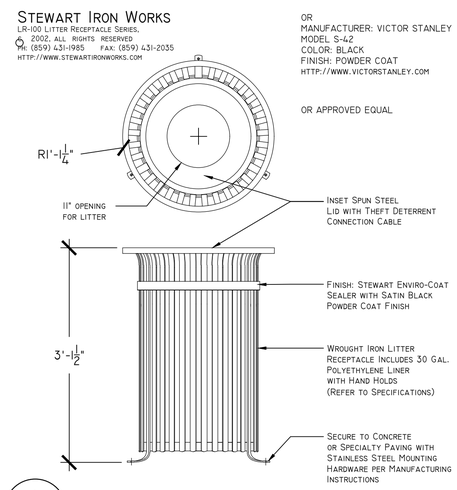
NOTES:
1. WALL IS TO MATCH EXISTING HISTORICAL WALL TO BE REMOVED.
2. SEE SHEETS S1 & S2 FOR COLUMN LOCATIONS AND STRUCTURAL DETAILS. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR OWNER APPROVAL.

2 / L6 HISTORIC CONCRETE WALL
SCALE: 1" = 1'-0"

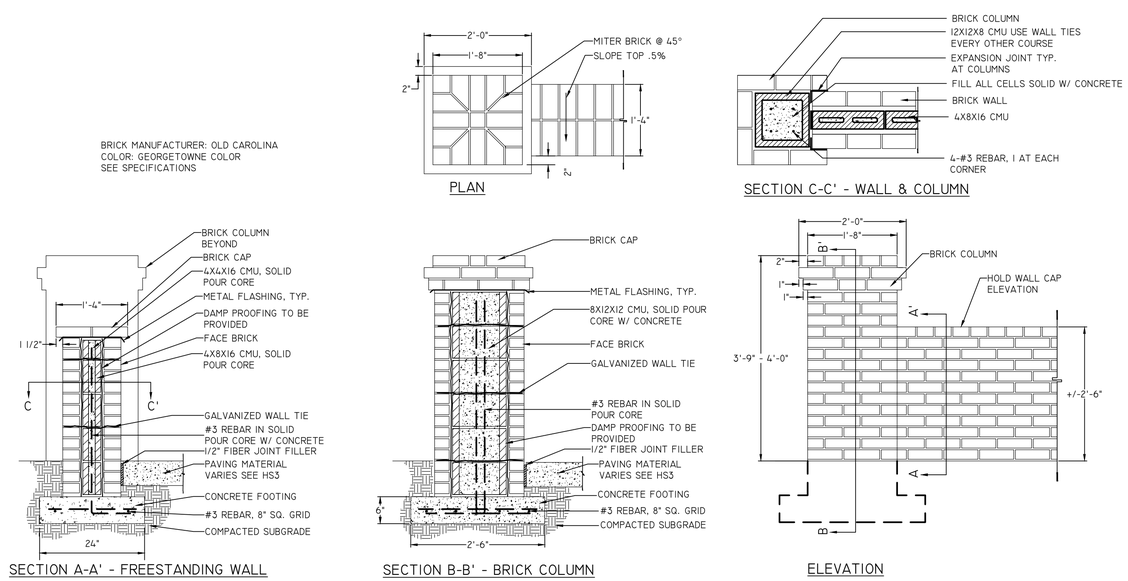


NOTES:
1. BOLLARDS SHALL BE TYPE B-1, 6" BOLLARD W/COLLARS AS MANUFACTURED BY FAIRWEATHER (OR APPROVED EQUAL)
2. ALL WELDS ARE TO BE CONTINUOUS AND GRINDED SMOOTH.
3. ALL METAL SHALL BE FINISHED W/ A BLACK POWDER COAT FINISH (4 MIL MIN. THICKNESS)

3 / L6 BOLLARD DETAIL
SCALE: 1" = 1'-0"



4 / L6 TRASH RECEPTACLE
SCALE: 1" = 1'-0"



5 / L6 BRICK COLUMN AND WALL
SCALE: 3/4" = 1'-0"

DAVIS & FLOYD
SINCE 1954
WWW.DAVISFLOYD.COM

1328 W. MONTAGUE AVENUE
CHARLESTON, SC 29405
(843) 554-8602

NOT FOR CONSTRUCTION
This drawing copy may have been reproduced at a size different than the original drawing. No responsibility is assumed for the use of incorrect scale. Drawings are not to be scaled.

South Carolina 811 Call 811 Before you Dig

Wood+Partners Inc. WPi
Landscape Architects
Land Planners
1211 Miccosukee Road ■ Tallahassee, FL 32308
850.391.0360 ■ Fax 850.386.1010 ■ www.woodlandpartners.com

PREPARED FOR:
CITY OF WALTERBORO
242 HAMPTON STREET
WALTERBORO, SOUTH CAROLINA 29488

I-95 BUSINESS LOOP PHASES 1B
Walterboro, South Carolina

DGN: BH/KH
R/W: CJ
CHK: MB

#	REVISION	DATE	BY

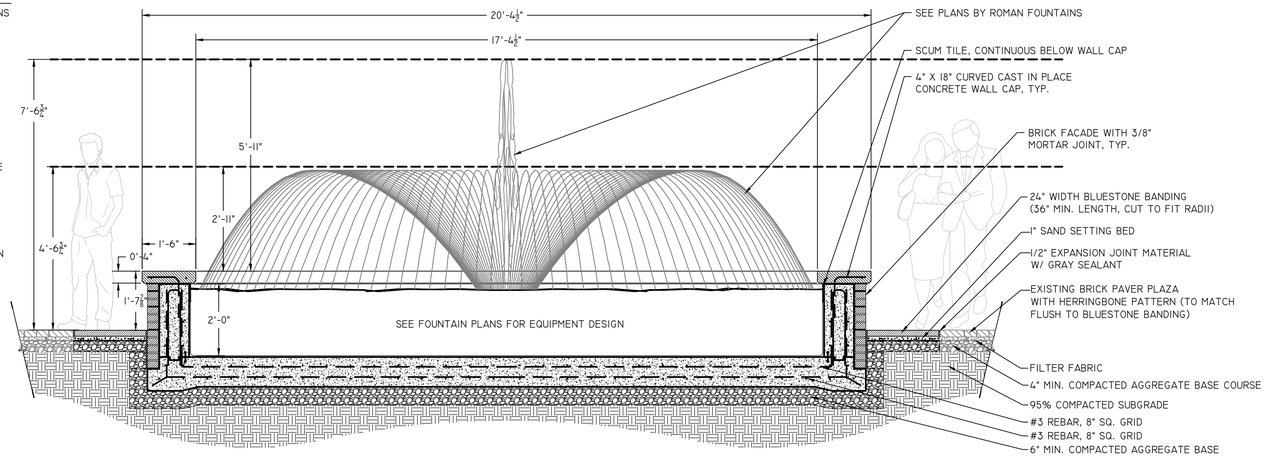
SHEET NUMBER
L6

Z:\Projects-TLH\URBAN\Walterboro\WalterboroBusLpImprCD-021301S\Production\Work CD's\02130 15_basedetailsPh1B.dwg 3/19/2018 5:06:31 PM BOBBY BOONE

FED. RD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	COLLETON	0041932	02-14011	SC 63		

GENERAL NOTES:

1. FOUNTAIN UTILITES. SEE FOUNTAIN PLANS BY ROMAN FOUNTAINS FOR:
   - APPROXIMATE LOCATION OF FOUNTAIN EQUIPMENT
   - FINAL VAULT & CONTROL PANEL LOCATION AND SIZE
   - UTILITY CONNECTIONS.
   - ALL REQUIRED PUMPS, FILTERS, MECHANICAL AND ELECTRICAL FOR 100% COMPLETE SYSTEM.
   - LIGHTS, FLOOR DRAINS, RECIRCULATING RETURNS
2. THE CONTRACTOR SHALL EMPLOY A STRUCTURAL ENGINEER TO PERFORM THE STRUCTURAL DESIGN OF THE FOUNTAIN. STRUCTURAL DESIGN OF THE FOUNTAIN SHALL BE PROVIDED BY A PROFESSIONAL ENGINEER CURRENTLY LICENSED IN THE STATE OF SOUTH CAROLINA. SUBMIT STAMPED SHOP DRAWINGS OF FOUNTAIN REINFORCING STEEL FOR REVIEW.
3. HOLD TOP OF WALL CONSISTENT FOR THE ENTIRE LENGTH OF THE FOUNTAIN WALL.
4. VENEER ANCHOR (14 GAUGE GLAVANIZED) SHALL BE REQUIRED AT MAXIMUMS OF 16" O.C. VERTICAL AND 12" O.C. HORIZONTAL IN A STAGGERED DIAMOND PATTERN FOR ALL CAST IN PLACE CONCRETE WALLS WITH BRICK VENEER.
5. PROVIDE MINIMUM 2% SLOPE OF FOUNTAIN FLOOR TO DRAIN.
6. REBAR SHALL NOT BE ANY LESS THAN 2" FROM FACE OF CONCRETE.
7. MOCK UPS AND SAMPLES OF PAVERS, TILES AND TOPCOATING SHALL BE PROVIDED TO OWNER BY CONTRACTOR. IN-PLACE MOCK UPS ARE ALLOWED.



1 / L7 FOUNTAIN SECTION
SCALE: 1/2" = 1'-0"

SCHEDULE OF ITEMS

*PROVIDE BELOW REQUESTED PRODUCTS OR APPROVED EQUAL.

FOUNTAIN BRICK FACADE MANUFACTURER:
OLD CAROLINA
COLOR: GEORGETOWNE COLOR

MORTAR
COLOR: GRAY
JOINTS: TO BE GRAPEVINE

VENT WEEPS
WEEPVENT BY MORTAR NET SOLUTIONS
COLOR: GRAY

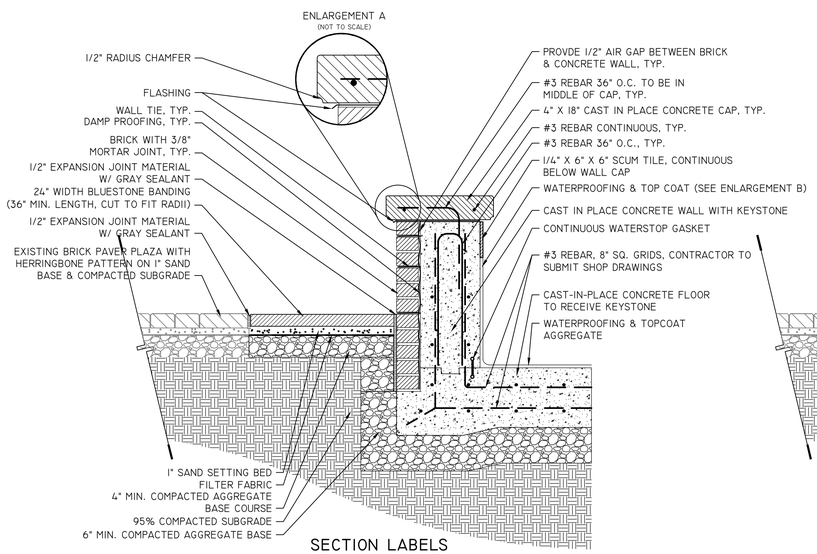
SCUM TILE:
SIMULATED POLISH TRAVERTINE, Noce SPT-NOCE BY NATIONAL POOL TILE GROUP

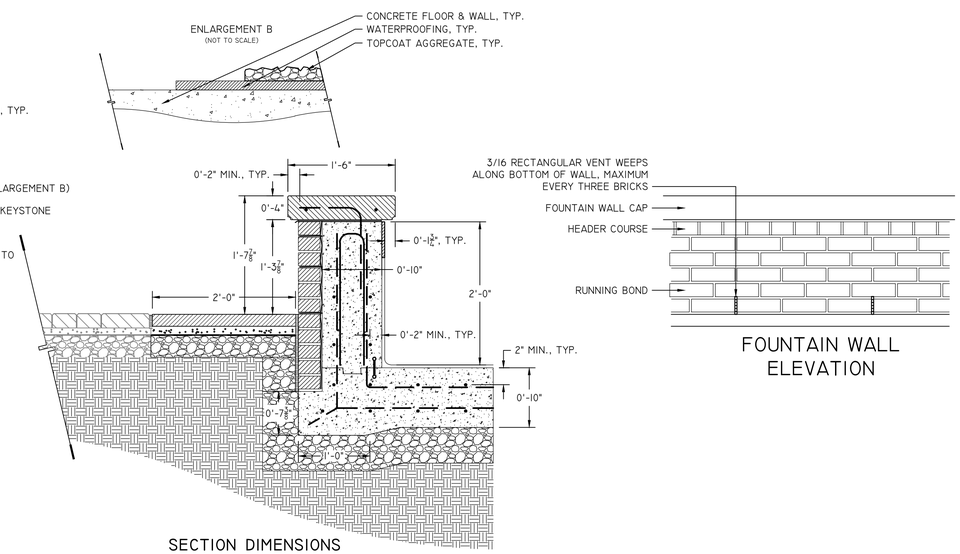
CAST IN PLACE CONCRETE CAP
COLOR: TO MATCH SW #7011 NATURAL CHOICE (SHERWIN WILLIAMS)

CAST IN PLACE CONCRETE CAP EXPANSION JOINTS
SHALL USE BACKER ROD AND CAULK SHALL MATCH CAP COLOR

WATERPROOFING
CIM 1000 BY CHASE INDUSTRIES
(APPLY PER MANUFACTURER RECOMMENDATIONS)

WATERPROOF TOPCOATING
PEBBLETEC MIDNIGHT BLUE BY PEBBLE TEC
(APPLY PER MANUFACTURER RECOMMENDATIONS)





2 / L7 FOUNTAIN WALL ENLARGEMENT
SCALE: 1" = 1'-0"

PREPARED FOR:
CITY OF WALTERBORO
242 HAMPTON STREET
WALTERBORO, SOUTH CAROLINA 29488

I-95 BUSINESS LOOP PHASES 1B

Walterboro, South Carolina

DGN: BH/KH
R/W: CJ
CHK: MB

#	REVISION	DATE	BY

SHEET NUMBER
L7

DAVIS & FLOYD
SINCE 1954
WWW.DAVISFLOYD.COM

1319 B. MONTAGUE AVENUE
CAYCE, SC 29033-2541
(843) 554-8602

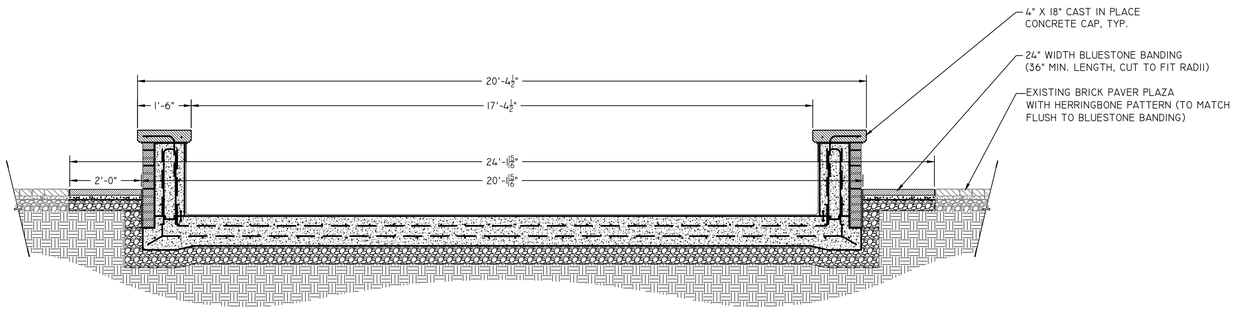
NOT FOR CONSTRUCTION
This drawing copy may have been reproduced at a size different than the original drawing. No responsibility is assumed for the use of incorrect scale. Drawings are not to be scaled.

South Carolina 811 Call 811 Before you Dig

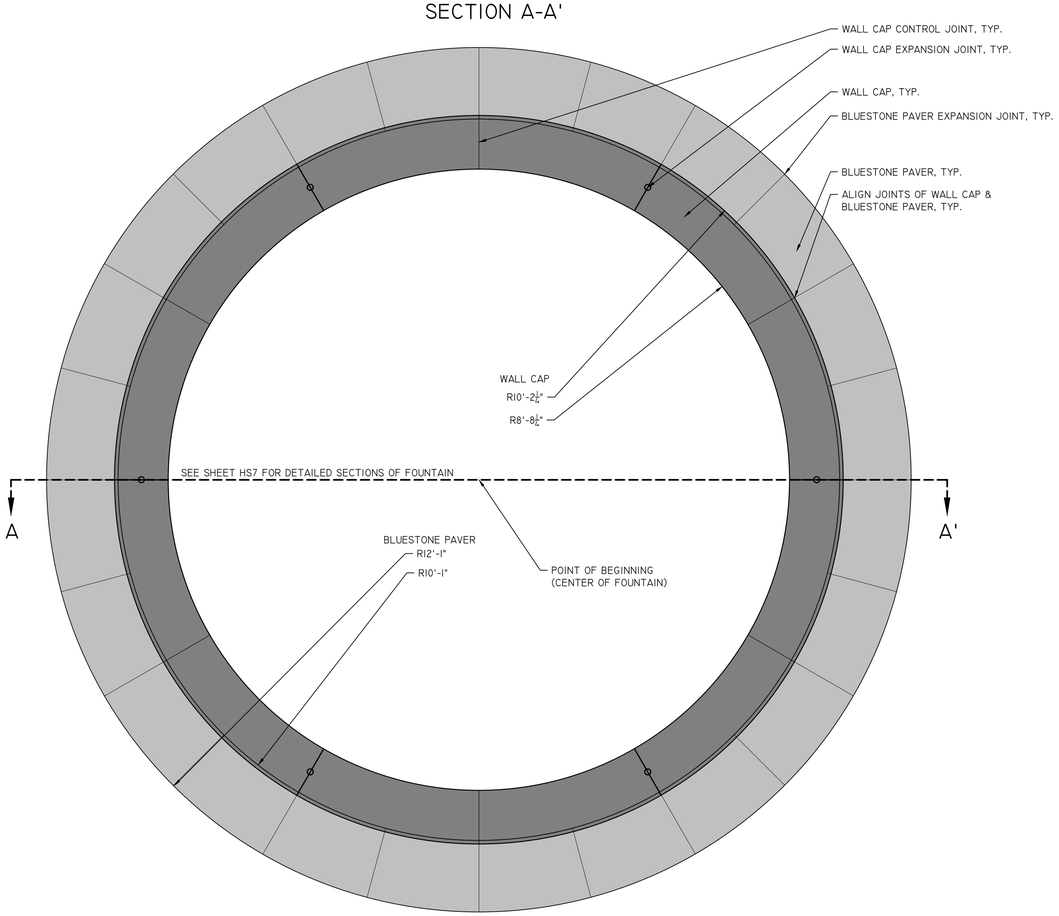
Wood+Partners Inc. WPi
Landscape Architects
Land Planners
1211 Miccosukee Road ■ Tallahassee, FL 32308
850.391.0360 ■ Fax 850.386.1010 ■ www.woodandpartners.com

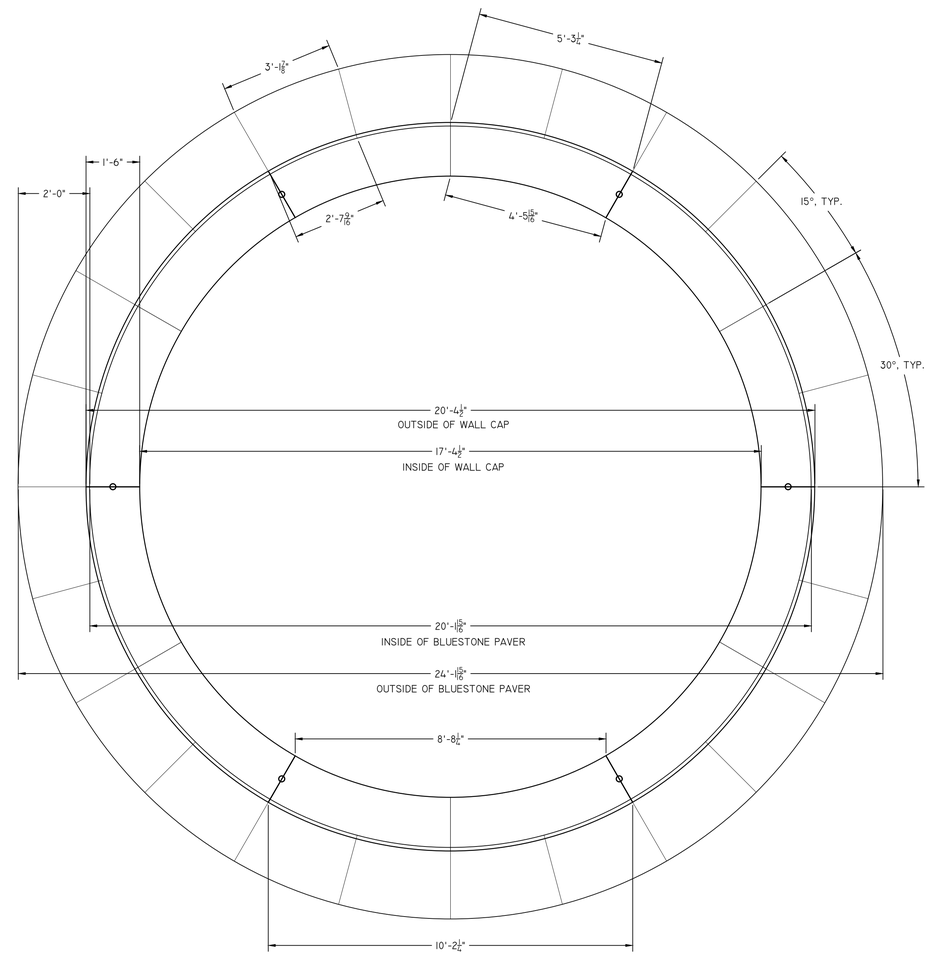
Z:\Projects-TL\HURBAN\Walterboro\WalterboroBusLpImprvCD-021301S\Production\Work CDs\021301S_basedetailsPh1B.dwg 3/19/2018 5:06:31 PM BOBBY BOONE

FED. RD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	COLLETON	0041932	02-14011	SC 63		



SECTION A-A'





1 / L8 FOUNTAIN CAP & BLUESTONE PAVER LAYOUT
SCALE: 1/2" = 1'-0"

PREPARED FOR:
CITY OF WALTERBORO
243 HAMPTON STREET
WALTERBORO, SOUTH CAROLINA 29488

I-95 BUSINESS LOOP PHASES 1B

Walterboro, South Carolina

SOUTH CAROLINA LANDSCAPE ARCHITECT REGISTERED No. 276 MARK BAKER

DGN: BH/KH
R/W: CJ
CHK: MB

#	REVISION	DATE	BY

SHEET NUMBER
L8

DAVIS & FLOYD
SINCE 1954
WWW.DAVISFLOYD.COM

3228 W. WINN ROAD
CHARLESTON, SC 29418
(843) 554-8602

NOT FOR CONSTRUCTION

This drawing copy may have been reproduced at a size different than the original drawing. No responsibility is assumed for the use of incorrect scale. Drawings are not to be scaled.

South Carolina 811 Call 811 Before you Dig

Wood+Partners Inc. WPi
Landscape Architects
Land Planners
1211 Miccosukee Road ■ Tallahassee, FL 32308
850.391.0360 ■ Fax 850.386.1010 ■ www.woodandpartners.com

Z:\Projects-TL\HURBAN\Walterboro\WalteboroBus_phIIIprv\CD-0213015\Production\Work CDs\0213015_basedetailsPh1B.dwg 3/19/2018 5:06:31 PM BOBBY BOONE

FED. RD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	COLLETON	0041932	02-14011	SC 63		

PHASE IB PLANT SCHEDULE

FLOWERING TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	HT	CRDT	REMARKS
	LAMA	11	LAGERSTROEMIA X FAURIEI `MUSKOGEE`	MUSKOGEE CRAPE MYRTLE	FG B&B	2" CAL.	12`-16`	1	SINGLE LEADER

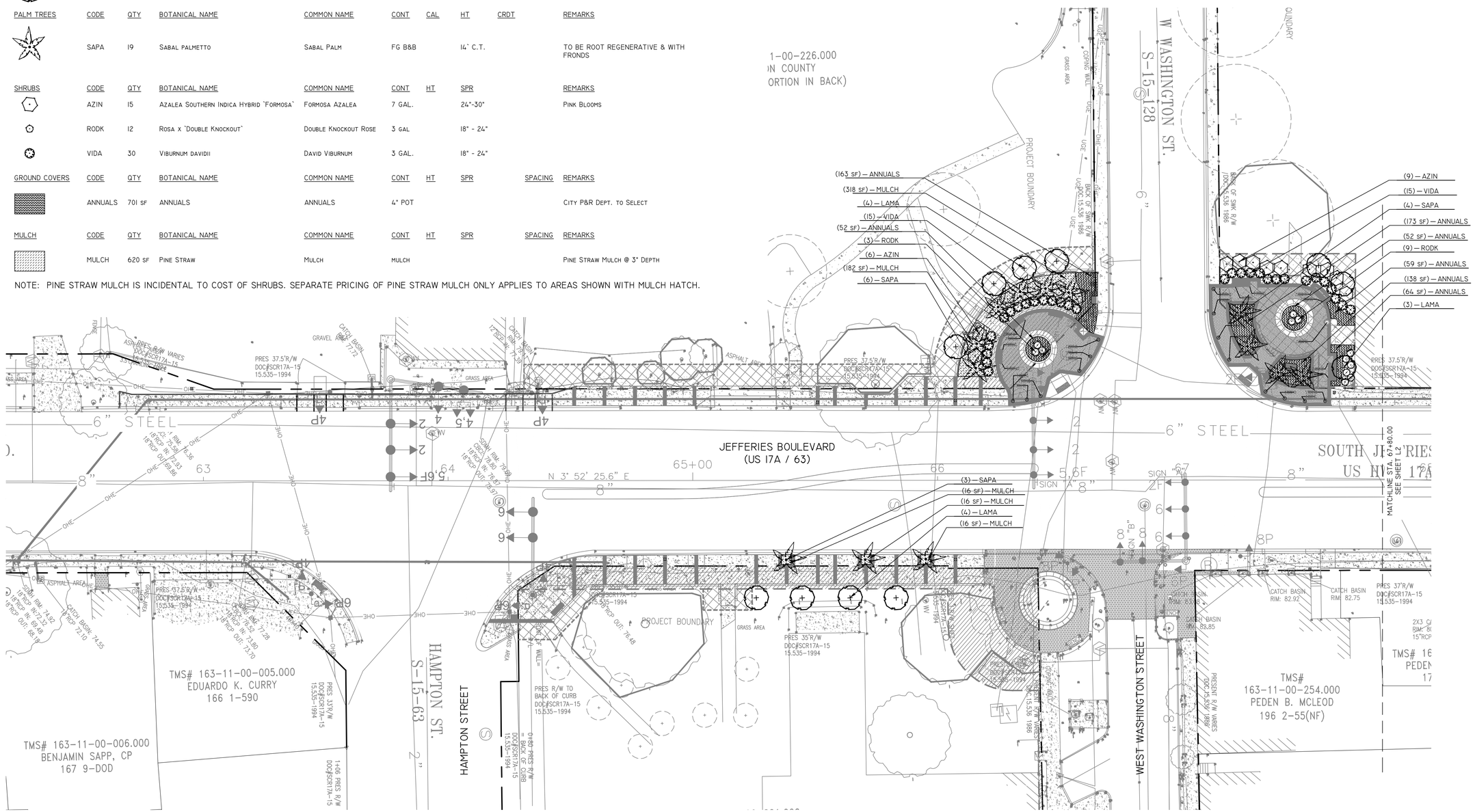
PALM TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	HT	CRDT	REMARKS
	SAPA	19	SABAL PALMETTO	SABAL PALM	FG B&B		14` C.T.		TO BE ROOT REGENERATIVE & WITH FRONDS

SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	HT	SPR	REMARKS
	AZIN	15	AZALEA SOUTHERN INDICA HYBRID `FORMOSA`	FORMOSA AZALEA	7 GAL.		24"-30"	PINK BLOOMS
	RODK	12	ROSA X `DOUBLE KNOCKOUT`	DOUBLE KNOCKOUT ROSE	3 GAL		18" - 24"	
	VIDA	30	VIBURNUM DAVIDII	DAVID VIBURNUM	3 GAL.		18" - 24"	

GROUND COVERS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	HT	SPR	SPACING	REMARKS
	ANNUALS	701 SF	ANNUALS	ANNUALS	4" POT				CITY P&R DEPT. TO SELECT

MULCH	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	HT	SPR	SPACING	REMARKS
	MULCH	620 SF	PINE STRAW	MULCH	MULCH				PINE STRAW MULCH @ 3" DEPTH

NOTE: PINE STRAW MULCH IS INCIDENTAL TO COST OF SHRUBS. SEPARATE PRICING OF PINE STRAW MULCH ONLY APPLIES TO AREAS SHOWN WITH MULCH HATCH.



PREPARED FOR:

CITY OF WALTERBORO
242 HAMPTON STREET
WALTERBORO, SOUTH CAROLINA 29488

I-95 BUSINESS LOOP PHASES 1B

Walterboro, South Carolina

SOUTH CAROLINA LANDSCAPE ARCHITECT REGISTRATION No. 276 MARK BOWEN

DGN: BH/KH
R/W: CJ
CHK: MB

#	REVISION	DATE	BY

SHEET NUMBER
L9

DAVIS & FLOYD
SINCE 1954
WWW.DAVISFLOYD.COM

1319 N. MONTAGUE AVENUE
CAYCE, SC 29033-3416
(843) 554-8602

NOT FOR CONSTRUCTION

This drawing copy may have been reproduced at a size different than the original drawing. No responsibility is assumed for the use of incorrect scale. Drawings are not to be scaled.

South Carolina 811 Call 811 Before you Dig

Wood+Partners Inc. WPi
Landscape Architects
Land Planners
1211 Miccosukee Road ■ Tallahassee, FL 32308
850.391.0380 ■ Fax 850.386.1010 ■ www.woodandpartners.com

0 10' 20' 40' 60' 80'
SCALE: 1" = 20'

NORTH

Z:\Projects-TLH\URBAN\Walterboro\WalterboroBusLp\Impv\CD-02\13015\Production\Work CD's\02\13015_plantingPh1BMERGE.dwg 3/23/2018 9:41:35 AM BOBBY BOONE

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	COLLETON	0041932	02-14011	SC 63		

PHASE IB PLANT SCHEDULE

FLOWERING TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	HT	CRDT	REMARKS
	LAMA	11	Lagerstroemia x fauriei `Muskogee`	Muskogee Crape Myrtle	FG B&B	2" CAL.	12'-16'	1	Single Leader

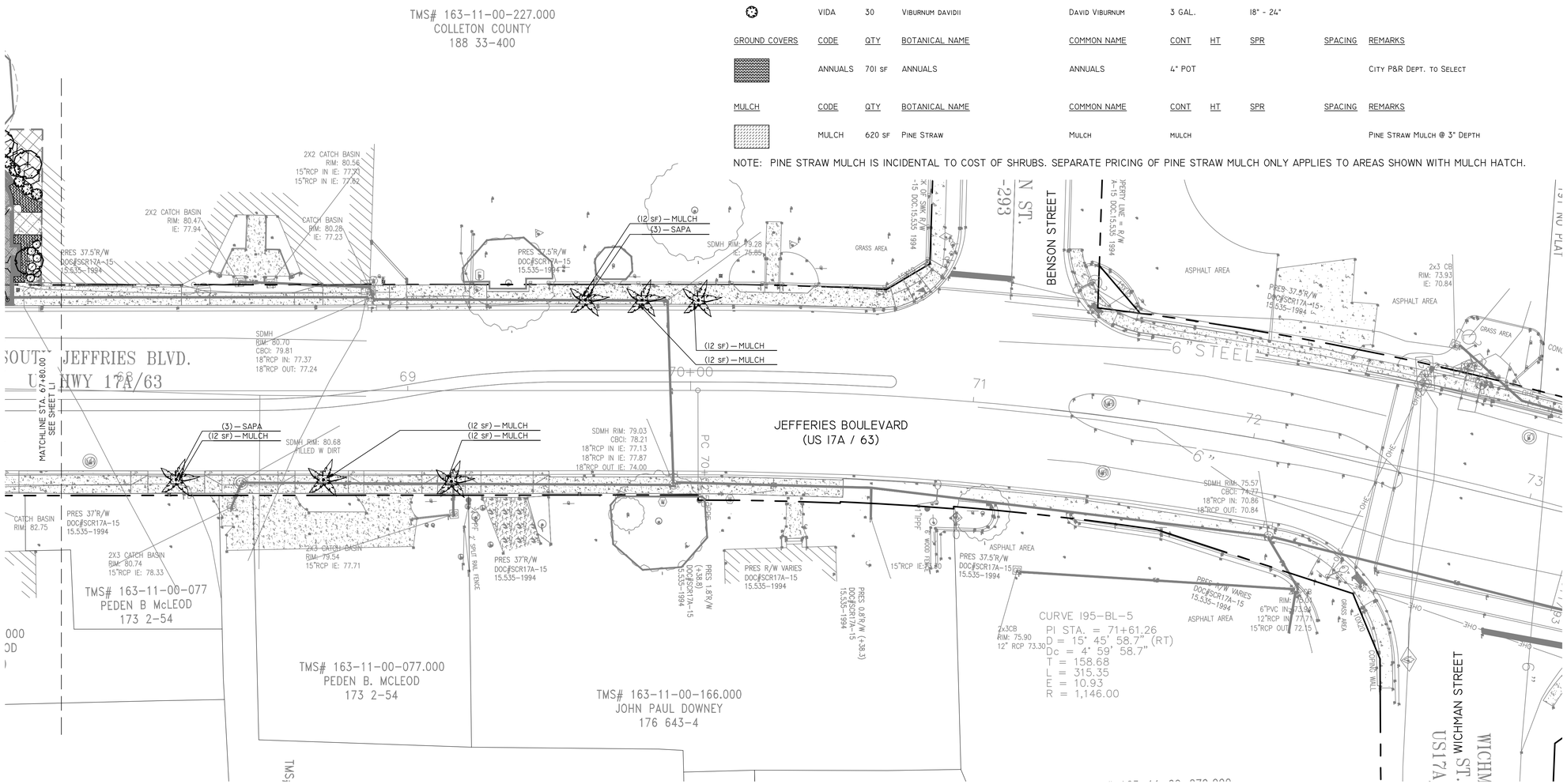
PALM TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	HT	CRDT	REMARKS
	SAPA	19	Sabal palmetto	Sabal Palm	FG B&B		14' C.T.		TO BE ROOT REGENERATIVE & WITH FRONDS

SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	HT	SPR	REMARKS
	AZIN	15	Azalea Southern Indica Hybrid `Formosa`	Formosa Azalea	7 GAL.		24"-30"	Pink Blooms
	RODK	12	Rosa x `Double Knockout`	Double Knockout Rose	3 gal		18" - 24"	
	VIDA	30	Viburnum davidii	David Viburnum	3 GAL.		18" - 24"	

GROUND COVERS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	HT	SPR	SPACING	REMARKS
	ANNUALS	701 sf	ANNUALS	ANNUALS	4" POT				City P&R Dept. to Select

MULCH	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	HT	SPR	SPACING	REMARKS
	MULCH	620 sf	Pine Straw	Mulch	mulch				Pine Straw Mulch @ 3" Depth

NOTE: PINE straw MULCH IS INCIDENTAL TO COST OF SHRUBS. SEPARATE PRICING OF PINE STRAW MULCH ONLY APPLIES TO AREAS SHOWN WITH MULCH HATCH.



PREPARED FOR:
CITY OF WALTERBORO
242 HAMPTON STREET
WALTERBORO, SOUTH CAROLINA 29488

I-95 BUSINESS LOOP PHASES 1B

Walterboro, South Carolina

SOUTH CAROLINA LANDSCAPE ARCHITECT REGISTERED No. 276 MARK BARCLAY

DGN: BH/KH
R/W: CJ
CHK: MB

#	REVISION	DATE	BY

DAVIS & FLOYD
SINCE 1954
WWW.DAVISFLOYD.COM

1123 W. HAMPTON AVENUE
CAYCE, SC 29033-3418
(843) 554-8602

NOT FOR CONSTRUCTION
This drawing copy may have been reproduced at a size different than the original drawing. No responsibility is assumed for the use of incorrect scale. Drawings are not to be scaled.

South Carolina 811 Call 811 Before you Dig

Wood+Partners Inc. WPi
Landscape Architects
Land Planners
1211 Miccosukee Road ■ Tallahassee, FL 32308
850.391.0360 ■ Fax 850.386.1010 ■ www.woodandpartners.com

0 10' 20' 40' 60' 80'
SCALE: 1" = 20'

NORTH

SHEET NUMBER
L10

Z:\Projects-TL\HUR\ANI\Walterboro\WalterboroBusLpImprvCD-0213015\Production\Work CDs\0213015_plantingPh1BMERGE.dwg 3/23/2018 9:41:35 AM BOBBY BOONE

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	COLLETON	0041932	02-14011	SC 63		

PLANTING NOTES:

1. CONTRACTOR SHALL FULLY REVIEW ALL PLANS AND SPECIFICATIONS PRIOR TO CONSTRUCTION / INSTALLATION. CONTRACTOR SHALL NOTIFY OWNER IF ANY DISCREPANCIES EXIST.

2. ANY DEVIATION FROM THESE PLANS MUST BE SPECIFICALLY APPROVED BY OWNER.

3. NOTIFY OWNER OF ANY SITE CONDITIONS WHICH MAY NECESSITATE MODIFICATION TO THE PLAN. OWNER SHALL, IF NECESSARY, MAKE "IN-FIELD MODIFICATIONS".

4. FINE GRADING SHALL CONSIST OF HAND RAKED SMOOTH, FREE OF DEBRIS, ALL AREAS TO RECEIVE LANDSCAPE PLANTING AND/OR PINE STRAW MULCH.

5. CONTRACTOR IS RESPONSIBLE FOR INSPECTION OF EXISTING CONDITIONS AND PROMPTLY REPORTING ANY DISCREPANCIES. CONTRACTOR TO PERFORM SOIL TESTS PER SCDOT SPECIFICATIONS TO ASSURE PLANT HEALTH AND GROWTH.

6. CONTRACTOR IS RESPONSIBLE FOR LOCATING EXISTING UTILITIES AND HE IS RESPONSIBLE FOR ANY DAMAGE THAT MAY OCCUR TO EXISTING UTILITIES.

7. THE CONTRACTOR SHALL APPLY SEED FREE/WEED FREE MULCH TO PLANTED AREAS AT A MINIMUM 3" COMPACTED THICKNESS WITH PINE STRAW MULCH. MULCH SHALL BE APPLIED IMMEDIATELY AFTER COMPLETION OF PLANTING OPERATIONS. LIMITS OF MULCHING SHALL BE AS SHOWN ON PLAN, OR FOR INDIVIDUAL PLANTS, THE AREA OF THE PLANTING PIT, SEE PLANTING DETAILS. MULCH SHALL BE REPLACED TWICE WITHIN THE 12 MONTH ESTABLISHMENT PERIOD.

8. CONTRACTOR VERIFIES THAT ALL PLANT MATERIAL IS DETERMINED AVAILABLE AS SPECIFIED WHEN BID/PROPOSAL IS SUBMITTED.

9. PLANT SCHEDULE WAS PREPARED FOR ESTIMATING PURPOSES. CONTRACTOR SHALL MAKE OWN QUANTITIES USING DRAWINGS TO DETERMINE QUANTITIES TO HIS SATISFACTION. REPORT PROMPTLY ANY DISCREPANCIES WHICH MAY AFFECT BIDDING.

10. CONTRACTOR SHALL PROVIDE A ONE YEAR ESTABLISHMENT PERIOD AND MAINTENANCE SCHEDULE ON ALL INSTALLED LANDSCAPE.

11. CONTRACTOR SHALL SUPPLY AUTOMATIC IRRIGATION SYSTEM, COMPLETE AND INSTALLED. SYSTEM TO INCLUDE ALL VALVES, PIPES, HEADS, FITTINGS AND BACKFLOW CONTROLLER, AND TO PROVIDE 100% COVERAGE OF ALL SOD, SEED AND PLANTING BEDS. CONTRACTOR SHALL IRRIGATE LANDSCAPE THROUGHOUT ONE YEAR ESTABLISHMENT PERIOD.

12. CONTRACTOR SHALL KEEP LANDSCAPE IN A HEALTHY VIABLE STATE THROUGHOUT ONE YEAR ESTABLISHMENT PERIOD. LANDSCAPE FOUND TO BE IN POOR HEALTH SHALL BE REJECTED AND REPLACED WITH VIABLE PLANT MATERIAL AT CONTRACTOR'S EXPENSE. THIS REPLACEMENT SHALL OCCUR WITHIN SEVEN (7) DAYS OF REJECTION.

13. CONTRACTOR SHALL KEEP LANDSCAPE AREAS FREE OF WEEDS AND PESTS THROUGHOUT ONE YEAR PERIOD.

14. CONTRACTOR SHALL PROVIDE LANDSCAPE IN ACCORDANCE WITH AMERICAN STANDARD FOR NURSERY STOCK, ANSI Z60.1, LATEST EDITION.

15. CONTRACTOR SHALL PROVIDE LANDSCAPE IN ACCORDANCE WITH SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, INCLUDING BUT NOT LIMITED TO SECTIONS 811 AND 813.

16. THE CONTRACTOR SHALL MAINTAIN ALL PLANTINGS INCLUDING WATERING, MOWING, MULCHING, WEED, PEST CONTROL, LITTER REMOVAL, REMOVAL OF UNDESIRABLE VEGETATION, MAINTENANCE AND EDGING OF BED LINES, ETC. UNTIL FINAL ACCEPTANCE BY THE OWNER'S REPRESENTATIVE.

17. IT MAY BE NECESSARY TO REMOVE SOIL FROM THE TOP OF THE ROOT BALL IN ORDER TO EXPOSE THE ROOT FLARE.

PLANTING DETAIL NOTES:

1. ALL DIMENSIONS PROVIDED FOR WOODEN MATERIALS ARE NOMINAL.

2. PLANT CONTAINERS SHALL BE REMOVED PRIOR TO PLANTING. IF PLANTS ARE NOT CONTAINER GROWN, REMOVE A MINIMUM OF THE TOP 1/3 OF BURLAP, FABRIC, OR WIRE MESH. WIRE BASKETS MUST BE COMPLETELY REMOVED PRIOR TO INSTALLATION.

3. ROOTFLARES SHALL BE SET 1" ABOVE FINISHED GRADE AND SET PLUMB TO THE HORIZON.

4. BACKFILL SHALL BE LOOSENED EXISTING SOIL. REMOVE ROCKS, STICKS, OR OTHER DELETERIOUS MATERIAL GREATER THAN 1" IN ANY DIRECTION PRIOR TO BACKFILLING. WATER AND TAMP TO REMOVE AIR POCKETS. IF EXISTING SOILS CONTAIN EXCESSIVE SAND, CLAY, OR OTHER MATERIAL NOT CONDUCIVE TO PROPER PLANT GROWTH CONTACT OWNER'S REPRESENTATIVE PRIOR TO PLANTING. A SOIL TEST TO CONFIRM ADHERENCE TO THE SPECIFICATIONS FOR ANY STOCKPILED OR IMPORTED SOIL WILL BE REQUIRED. SEE SPECIFICATIONS FOR REQUIRED TESTING DATA AND AMEND THE SOIL AS REQUIRED BY THE SOIL TEST.

5. SOIL BERMS SHALL BE CONSTRUCTED OF EXISTING SOIL AT THE OUTER EDGE OF THE PLANTING PIT WITH A HEIGHT AND WIDTH OF 6".

6. MULCH SHALL BE A 3" DEEP LAYER PLACED AROUND THE BASE OF SHRUB OR SOLIDLY AROUND GROUNDCOVER. MULCH SHALL BE AT A MINIMUM 4" CLEARANCE FROM TREE TRUNKS.

7. IT MAY BE NECESSARY TO REMOVE SOIL FROM THE TOP OF THE ROOT BALL IN ORDER TO EXPOSE THE ROOT FLARE.

8. STAPLING FOR ALL TREES SHALL BE KEPT WITHIN SCDOT RIGHT OF WAY.

9. ALL WORK CONDUCTED BY LANDSCAPE CONTRACTOR SHALL BE IN ACCORDANCE WITH THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION ACCESS AND ROADSIDE MANAGEMENT STANDARDS (ARMS MANUAL).

10. THE CONTRACTOR SHALL FERTILIZE ALL PLANT MATERIAL. FERTILIZATION WILL BE AS RECOMMENDED BY SOIL TESTS.

11. THE CONTRACTOR SHALL APPLY ORGANIC HERBICIDES ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS TO ALL PLANTING BEDS.

12. CONTAINER GROWN STOCK SHALL HAVE BEEN GROWN IN A CONTAINER LONG ENOUGH FOR THE ROOT SYSTEM TO HAVE DEVELOPED SUFFICIENTLY TO HOLD ALL THE SOIL TOGETHER FIRMLY, BUT NOT LONG ENOUGH TO HAVE BECOME POT BOUND.

13. FOR DISTURBED AREAS OF EXISTING SOD, CONTRACTOR TO INSTALL SOD OF THE SAME SPECIES. THE CONTRACTOR SHALL LAY SOD SOLIDLY IN ALL INDICATED OR DISTURBED AREAS WITH JOINTS IN CONTACT WITH EACH OTHER. PIN ALL SODDED SLOPES GREATER THAN 4:1 STEEL U PINS/SOD STAPLES.

14. ALL PLANTS, MATERIALS AND WORKMANSHIP ARE SUBJECT TO THE APPROVAL OF THE OWNER'S REPRESENTATIVE.

15. THE CONTRACTOR SHALL NOT MAKE SUBSTITUTIONS OR REVISIONS WITHOUT THE OWNER'S REPRESENTATIVE APPROVAL.

16. THE CONTRACTOR SHALL KEEP ALL AREAS OF WORK CLEAN, NEAT AND ORDERLY. ALL PAVED SURFACES ARE TO BE CLEANED OF SOIL AND DEBRIS AT THE CLOSE OF THE WORK DAY.

17. EACH TREE AND SHRUB SHALL BE PRUNED AS NEEDED TO REMOVE ALL DEAD WOOD, SUCKERS, OR BROKEN/DAMAGED BRANCHES. ALL PRUNING SHALL BE IN ACCORDANCE WITH ANSI A300 STANDARDS AND SHALL PRESERVE THE NATURAL HABIT AND CHARACTER OF THE PLANT.

18. PLANTS WITH BROKEN ROOT BALLS, BOUND ROOTS OR SUBSTANTIAL DAMAGE TO ANY PART SHALL BE REPLACED PRIOR TO PLANTING.

19. THE CONTRACTOR SHALL VERIFY ALL QUANTITIES IN THE PLANTING SCHEDULE AND INSTALL ALL PLANTS AND MATERIALS AS INDICATED ON THE PLANS. REPORT PROMPTLY ANY DISCREPANCIES WHICH MAY AFFECT BIDDING.

20. CONTRACTOR SHALL STAKE TREES FOR APPROVAL PRIOR TO INSTALLATION. ANY CONFLICTS OR DISCREPANCIES SHALL BE FIELD ADJUSTED AND APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.

21. SHRUBS, ORNAMENTAL GRASSES, AND GROUNDCOVERS SHALL BE LAID OUT ON THE GROUND FOR APPROVAL BY THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL ANTICIPATE THAT SOME RE-ARRANGEMENT OF MATERIAL WILL OCCUR.

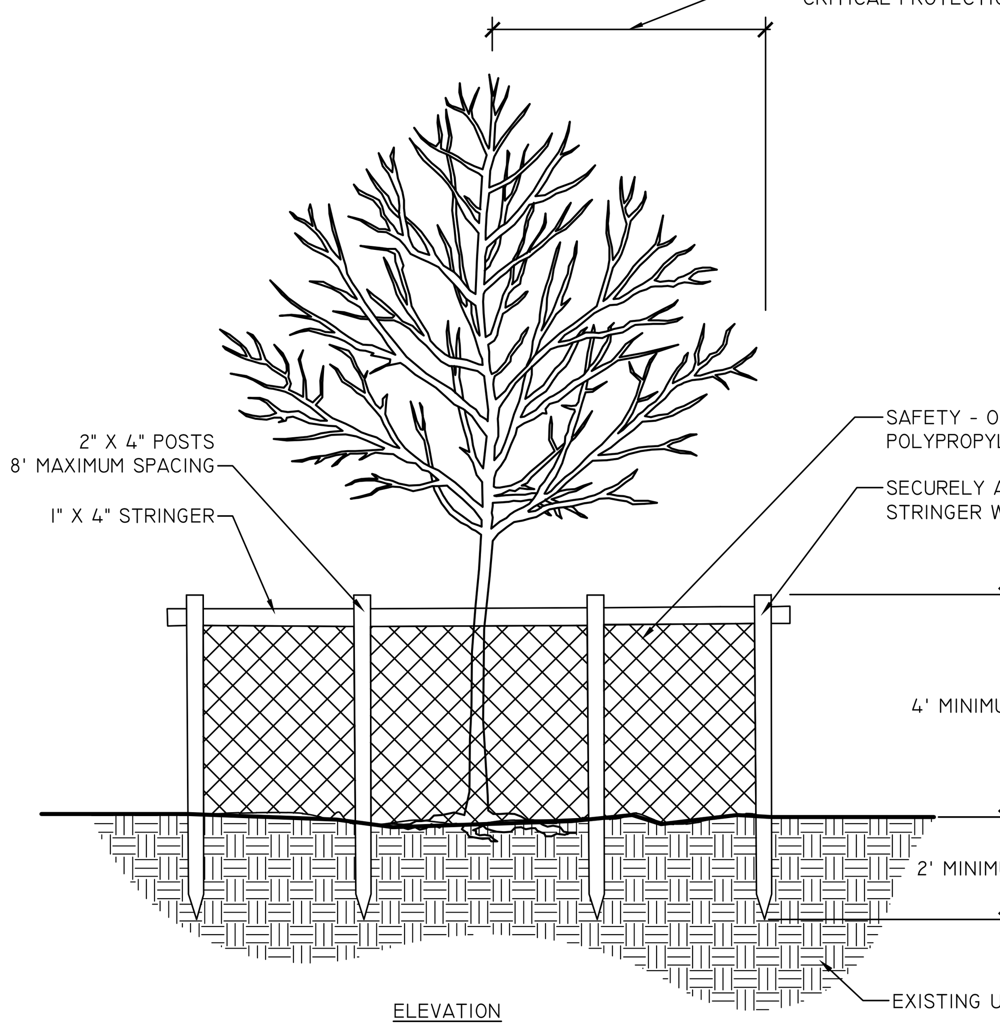
22. PROVIDE THE OWNER AND OWNER'S REPRESENTATIVE WITH SEVEN CALENDAR DAYS ADVANCE NOTICE OF COMPLETING INSTALLATION OF ALL PLANTS AND INCIDENTAL LANDSCAPING. THE ESTABLISHMENT PERIOD WILL BEGIN UPON ACCEPTANCE OF THE COMPLETE INSTALLATION OF ALL PLANTS, BY THE OWNER. NOT LESS THAN FORTY-FIVE DAYS PRIOR TO THE SCHEDULED COMPLETION OF THE INSTALLATION, SUBMIT A MAINTENANCE PLAN TO THE OWNER AND OWNER'S REPRESENTATIVE. THE MAINTENANCE PLAN IS SUBJECT TO REVIEW AND COMMENT BY THE OWNER AND OWNER'S REPRESENTATIVE. INSTALLATION WILL NOT BE CONSIDERED COMPLETE UNTIL THE MAINTENANCE PLAN HAS WRITTEN APPROVAL FROM THE OWNER. THE MAINTENANCE PLAN SHALL SPECIFICALLY DESCRIBE THE METHODS, ACTIVITIES, MATERIALS AND SCHEDULE TO ACHIEVE THE FOLLOWING AT ALL TIMES THROUGHOUT THE ESTABLISHMENT PERIOD:

   A. KEEP ALL PLANTS INSTALLED AS SPECIFIED IN THESE PLANS.
   B. KEEP ALL PLANTS UNDAMAGED, INCLUDING FREE OF PESTS AND DISEASE, PROPERLY HYDRATED AND NOURISHED, TO SUPPORT TO GROWTH AND MAINTAIN FORM AND HABIT SPECIFIED IN THESE PLANS.
   C. KEEP ALL PLANTS PRUNED TO MAINTAIN PLANT HEALTH, CLEAR VISIBILITY OF SIGNS, TRAFFIC SIGNALS, SAFE SIGHT DISTANCE AT INTERSECTIONS AND DRIVEWAYS, SAFE AND OPERATIONAL HORIZONTAL AND VERTICAL CLEARANCE FROM ROADWAYS, SIDEWALKS, UTILITIES, LIGHT POLES, MECHANICALS EQUIPMENT, FENCES, WALLS AND DRAINAGE STRUCTURES, AND UNOBSTRUCTED ACCESS FOR ALL AUTHORIZED USERS.
   D. KEEP THE INDIVIDUAL PLANT LOCATIONS AND PLANT BEDS FREE OF LITTER AND UNDESIRABLE VEGETATION.
   E. KEEP LANDSCAPE BEDS EDGING CORRECTLY LOCATED AND TRIMMED, AND THE MULCH GROOMED AND REPLENISHED AS SPECIFIED IN THESE PLANS
   F. OPERATE AND MAINTAIN ALL COMPONENTS OF ANY IRRIGATION SYSTEM AS SPECIFIED IN THE PLANS WHEN INSTALLED AS PART OF THE CONTRACT.
   G. CONTINUE MOWING AND LITTER PICK UP OF THE TURF AREAS.

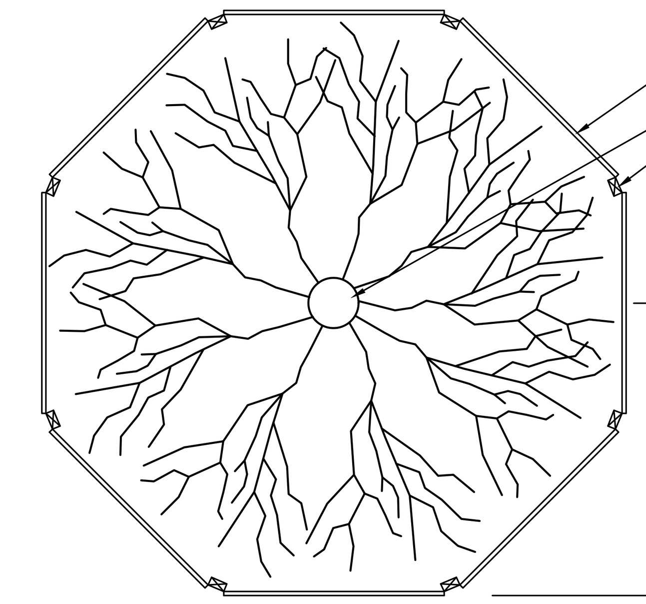
23. ALL PLANT MATERIAL SHALL BE WARRANTED FOR A 1-YEAR PERIOD AFTER FINAL ACCEPTANCE BY THE CONTRACTOR TO BE IN FLOURISHING CONDITION OF ACTIVE GROWTH AS INDICATED IN SPECIFICATIONS. AT THE END OF THE 1-YEAR PERIOD, ALL TREES AND PLANTS SHALL BE IN FLOURISHING CONDITION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MONITOR THE PROJECT DURING THE WARRANTY PERIOD AND INFORM THE OWNER IF PROBLEMS DEVELOP WITH THE PLANT MATERIAL. THE CONTRACTOR SHALL REMOVE DEAD AND UNHEALTHY PLANTS IMMEDIATELY AND REPLACE AT THE CONTRACTOR'S EXPENSE. WITHIN THE 1-YEAR PERIOD, THERE SHALL BE EVALUATION OF MAINTENANCE BY OWNER'S REPRESENTATIVE AND, IF NEEDED, CORRECTIVE ACTION TAKEN BY CONTRACTOR. OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO END THE MAINTENANCE SERVICES AT ANY POINT FOR ANY REASON.

24. PLANTS SHALL BE DEEMED DEAD IF THE TERMINAL LEADER DIES OR THE PLANT HAS LESS THAN 90% VIABLE LEAF SURFACE AREA.

25. WHEN CONFLICTS EXIST BETWEEN THE SPECIFICATIONS AND THESE PLANS, THE SPECIFICATIONS SHALL PREVAIL.



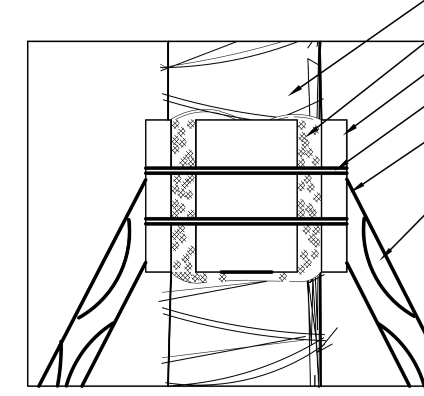
ELEVATION



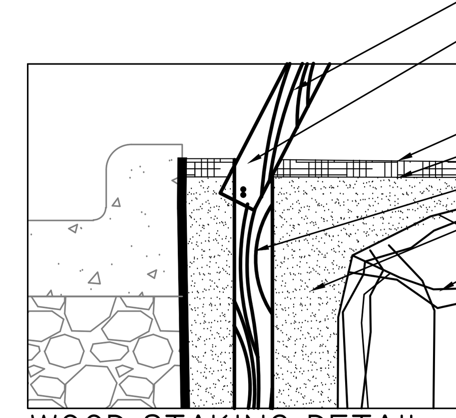
PLAN

NOTES:
1. CRITICAL PROTECTION ZONE: THE AREA SURROUNDING A TREE WITHIN A CIRCLE DESCRIBED BY A RADIUS OF ONE FOOT FOR EACH INCH OF THE TREE TRUNK DIAMETER AT 54" ABOVE FINISHED GRADE. FOR GROUPS OF TREES, PLACE BARRICADES BETWEEN TREES AND CONSTRUCTION ACTIVITY.
2. TREE PROTECTION BARRICADES SHALL BE LOCATED TO PROTECT A MINIMUM OF 75% OF THE CRITICAL PROTECTION ZONE.

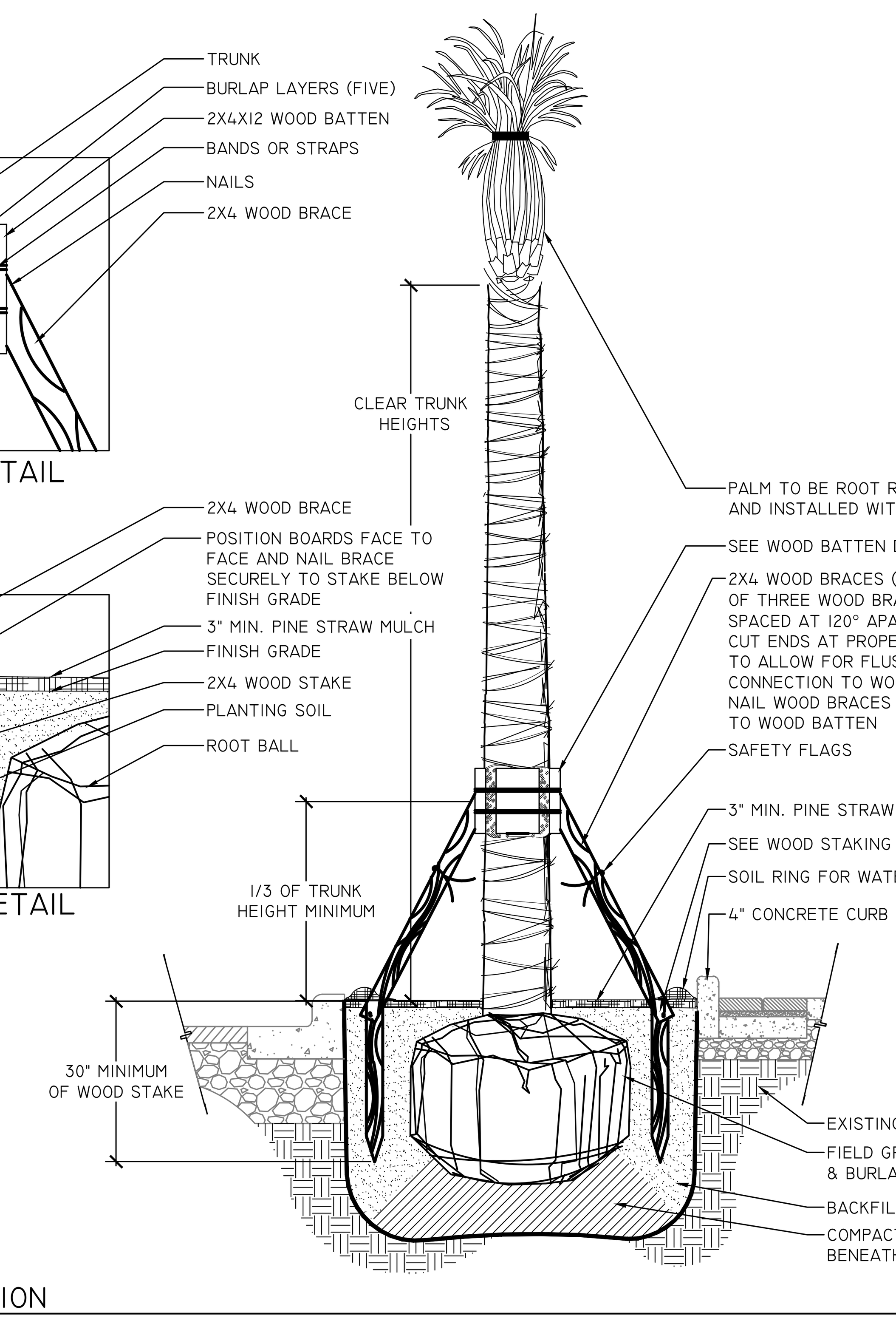
1 / L11 — TREE PROTECTION BARRICADE
NOT TO SCALE



WOOD BATTEN DETAIL



WOOD STAKING DETAIL
*STAKE FIRM INTO EXISTING SOIL.



2 / L11 — PALM IN TREE WELL SECTION
NOT TO SCALE

PREPARED FOR:
CITY OF WALTERBORO
242 HAMPTON STREET
WALTERBORO, SOUTH CAROLINA 29488

I-95 BUSINESS LOOP PHASES 1B
Walterboro, South Carolina

SOUTH CAROLINA REGISTERED LANDSCAPE ARCHITECT No. 276 MARK BAKER

DGN: BH/KH
R/W: CJ
CHK: MB

#	REVISION	DATE	BY

DAVIS & FLOYD
SINCE 1954
WWW.DAVISFLOYD.COM

3229 W. MONTAGUE AVENUE
CHARLESTON, SC 29418
(843) 554-8602

NOT FOR CONSTRUCTION
This drawing copy may have been reproduced at a size different than the original drawing. No responsibility is assumed for the use of incorrect scale. Drawings are not to be scaled.

South Carolina 811 — Call 811 Before you Dig

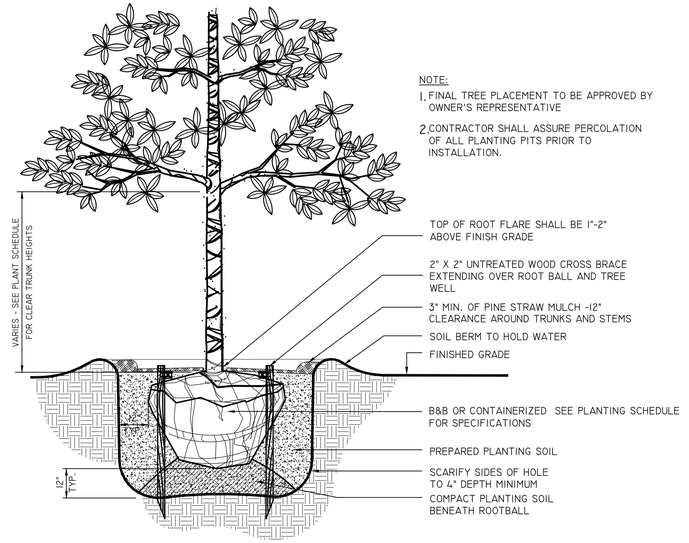
Wood+Partners Inc. WPi
Landscape Architects
Land Planners

1211 Miccosukee Road ■ Tallahassee, FL 32308
850.391.0360 ■ Fax 850.386.1010 ■ www.woodandpartners.com

SHEET NUMBER
L11

Z:\Projects-TLH\URBAN\Walterboro\WalterboroBusLpImprvCD-0213015\Production\Work CDs\0213015_plantingPh1BMERGE.dwg 3/23/2018 9:41:35 AM BOBBY BOONE

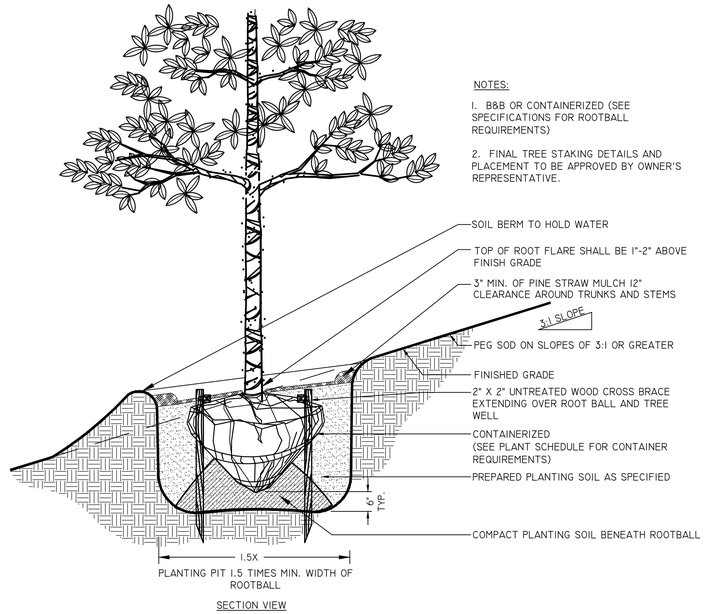
FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	COLLETON	0041932	02-14011	SC 63		



NOTE:

1. FINAL TREE PLACEMENT TO BE APPROVED BY OWNER'S REPRESENTATIVE
2. CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.

1 / L12 SHADE TREE PLANTING
NOT TO SCALE



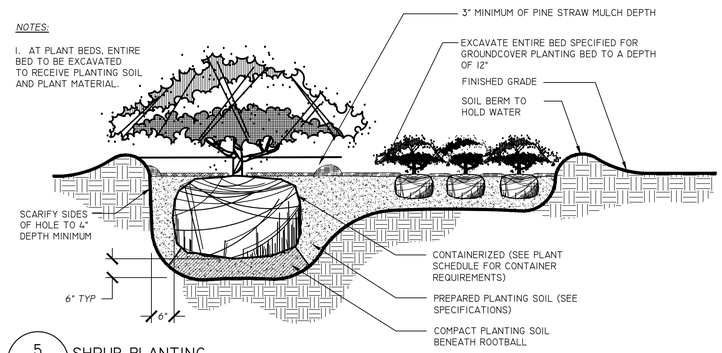
NOTES:

1. B&B OR CONTAINERIZED (SEE SPECIFICATIONS FOR ROOTBALL REQUIREMENTS)
2. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER'S REPRESENTATIVE.

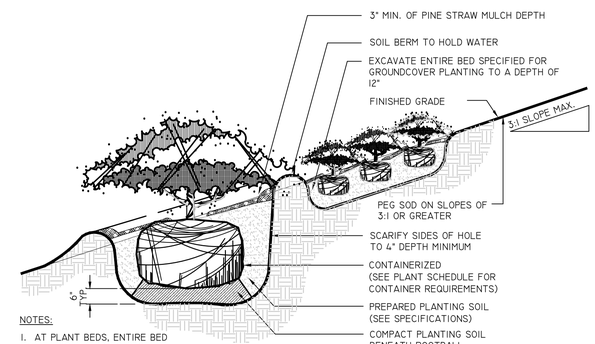
2 / L12 SHADE TREE PLANTING ON SLOPE
NOT TO SCALE

NOTES:

1. AT PLANT BEDS, ENTIRE BED TO BE EXCAVATED TO RECEIVE PLANTING SOIL AND PLANT MATERIAL.



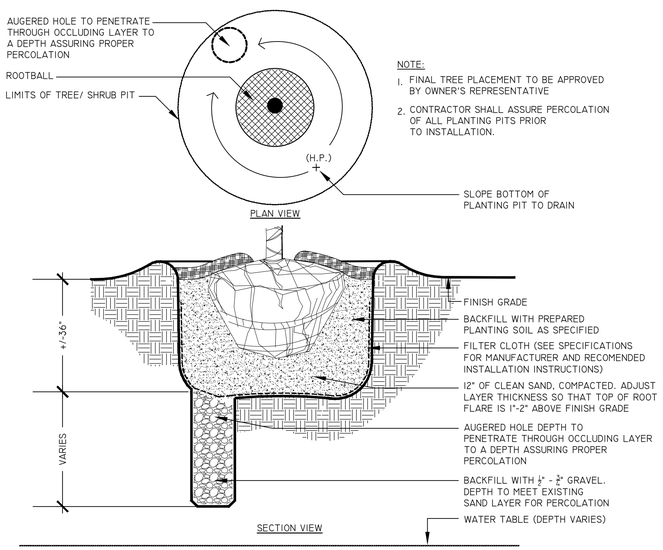
5 / L12 SHRUB PLANTING
NOT TO SCALE



NOTES:

1. AT PLANT BEDS, ENTIRE BED TO BE EXCAVATED TO RECEIVE PLANTING SOIL AND PLANT MATERIAL.

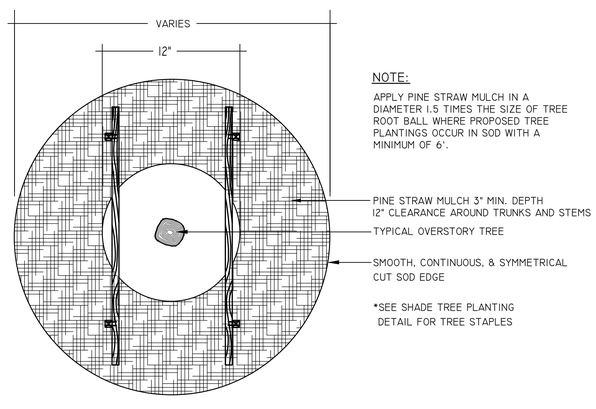
6 / L12 SHRUB PLANTING ON SLOPE
NOT TO SCALE



NOTE:

1. FINAL TREE PLACEMENT TO BE APPROVED BY OWNER'S REPRESENTATIVE
2. CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.

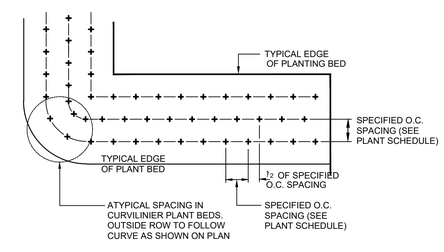
3 / L12 PLANTING IN POOR SOILS
NOT TO SCALE



NOTE:

APPLY PINE STRAW MULCH IN A DIAMETER 1.5 TIMES THE SIZE OF TREE ROOT BALL WHERE PROPOSED TREE PLANTINGS OCCUR IN SOD WITH A MINIMUM OF 6'.

4 / L12 TREE MULCH RING
NOT TO SCALE



7 / L12 TYPICAL GROUNDCOVER SPACING
NOT TO SCALE

PREPARED FOR:
CITY OF WALTERBORO
242 HAMPTON STREET
WALTERBORO, SOUTH CAROLINA 29488

I-95 BUSINESS LOOP PHASES 1B

Walterboro, South Carolina

DGN: BH/KH
R/W: CJ
CHK: MB

#	REVISION	DATE	BY

SHEET NUMBER
L12

DAVIS & FLOYD
SINCE 1954
WWW.DAVISFLOYD.COM
1226 N. MONTICELLO AVENUE
GREENWOOD, SC 29646
(843) 534-8602

NOT FOR CONSTRUCTION

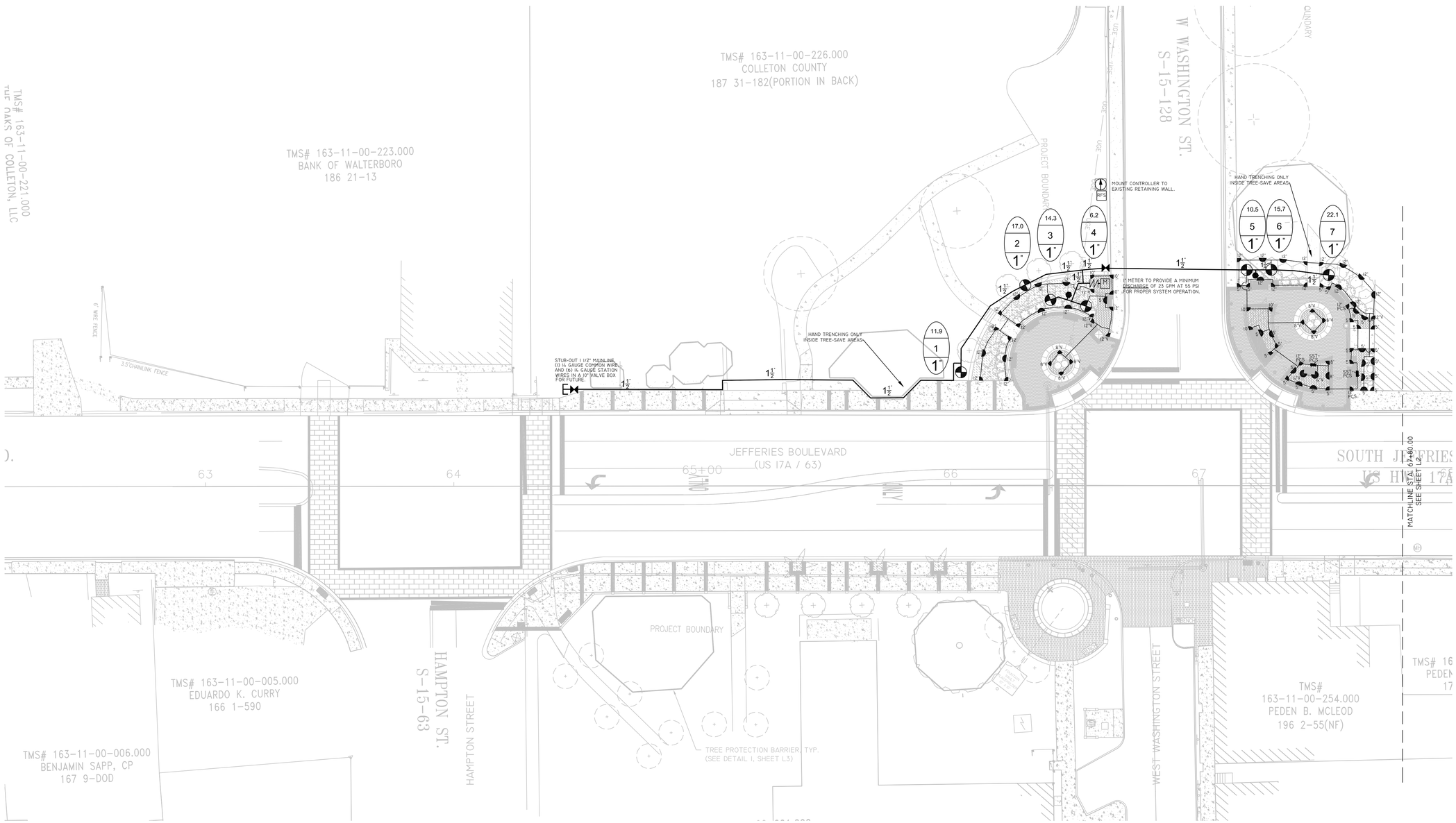
This drawing copy may have been reproduced at a size different than the original drawing. No responsibility is assumed for the use of incorrect scale. Drawings are not to be scaled.

South Carolina 811 Call 811 Before you Dig

Wood+Partners Inc. WPi
Landscape Architects Land Planners
1211 Miccosukee Road ■ Tallahassee, FL 32308
850.391.0360 ■ Fax 850.386.1010 ■ www.woodandpartners.com

Z:\Projects-TL\HURBAN\Walterboro\WalteboroBus\plmprvCD-0213015\Production\Work CDs\0213015_plantingPh1BMERGE.dwg 3/23/2018 9:41:35 AM BOBBY BOONE

FED. RD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	COLLETON	0041932	02-14011	SC 63		



PREPARED FOR:

CITY OF WALTERBORO SOUTH CAROLINA

95% PLANS
I-95 BUSINESS LOOP PHASES 1B
Walterboro, South Carolina

NASH LON R. SIMMONS III
REGISTERED LANDSCAPE ARCHITECT
NO. 2222
POSSE
Fl. Lic. No. LA0001

NOT FOR CONSTRUCTION

DGN: BH/KH
R/W: CJ
CHK: MB

#	REVISION	DATE	BY

Simmons Irrigation Supply
P.O. BOX 10
526 SIDNEYS ROAD
WALTERBORO, SC 29488
PH: (843)538-5566
FAX: (843)538-2068
sisinc@lowcountry.com

DAVIS & FLOYD
SINCE 1954
WWW.DAVISFLOYD.COM
3229 W. MONTAGUE AVENUE
NORTH CHARLESTON, SC 29418
(843) 554-8652

NOT FOR CONSTRUCTION

This drawing copy may have been reproduced at a size different than the original drawing. No responsibility is assumed for the use of incorrect scale. Drawings are not to be scaled.

South Carolina 811 Call 811 Before you Dig

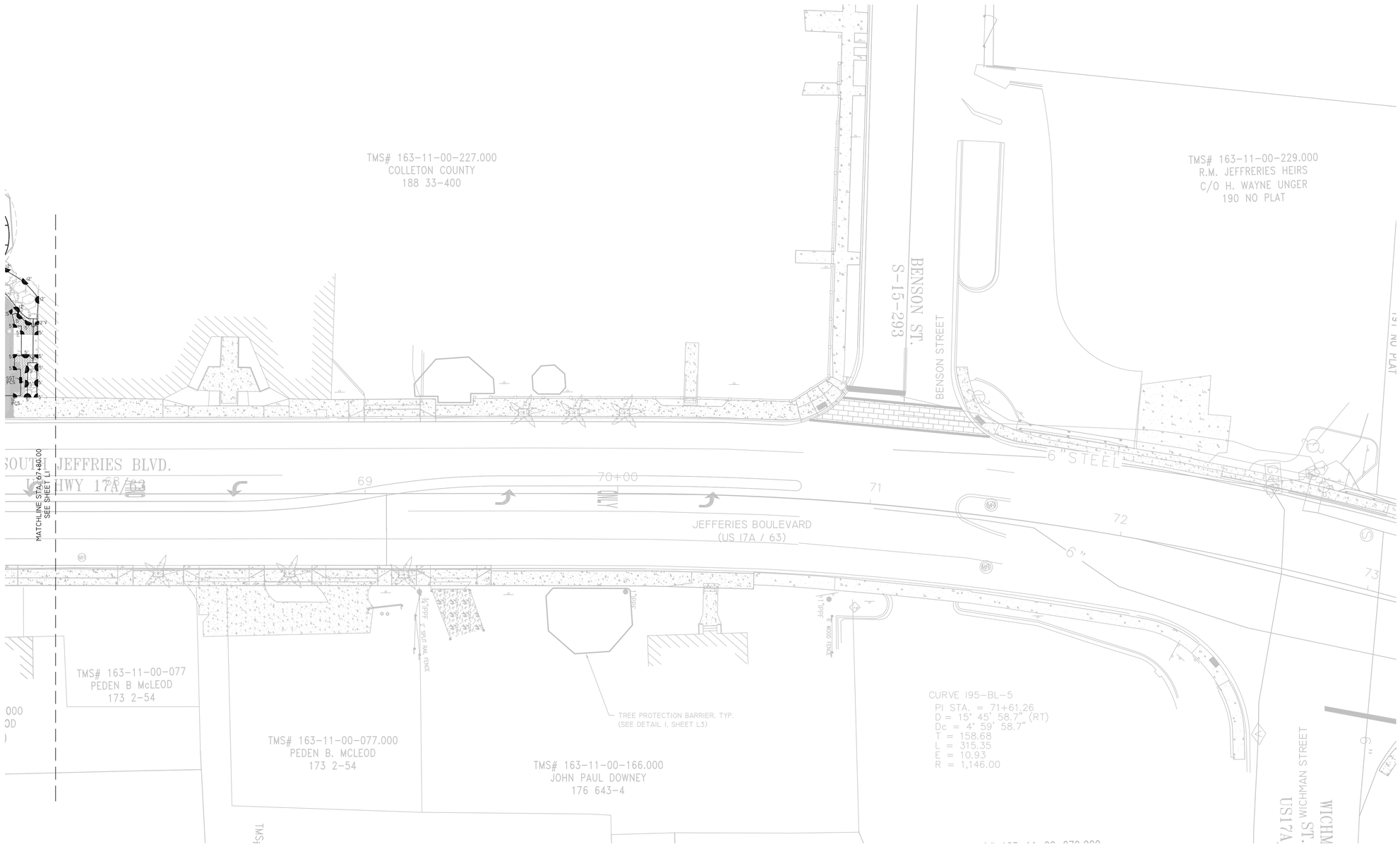
Wood+Partners Inc. WPi
Landscape Architects
Land Planners
1211 Miccosukee Road ■ Tallahassee, FL 32308
850.391.0360 ■ Fax 850.386.1010 ■ www.woodandpartners.com

0 10' 20' 40' 60' 80'
SCALE: 1" = 20'

NORTH

SHEET NUMBER
L13

FED. RD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	COLLETON	0041932	02-14011	SC 63		



Simmons Irigation Supply
P.O. BOX 10
526 SIDNEYS ROAD
WALTERBORO, SC 29488
PH: (843)538-5566
FAX: (843)538-2068
sisinc@lowcountry.com

DAVIS & FLOYD
SINCE 1954
WWW.DAVISFLOYD.COM
3229 W. MONTAGUE AVENUE
NORTH CHARLESTON, SC 29418
(843) 554-2408 FAX 554-5602

NOT FOR CONSTRUCTION

This drawing copy may have been reproduced at a size different than the original drawing. No responsibility is assumed for the use of incorrect scale. Drawings are not to be scaled.

South Carolina 811 Call 811 Before you Dig

Wood+Partners Inc. WPi
Landscape Architects
Land Planners
1211 Miccosukee Road ■ Tallahassee, FL 32308
850.391.0360 ■ Fax 850.386.1010 ■ www.woodandpartners.com

0 10' 20' 40' 60' 80'
SCALE: 1" = 20'

NORTH

PREPARED FOR:

95% PLANS
I-95 BUSINESS LOOP PHASES 1B
Walterboro, South Carolina

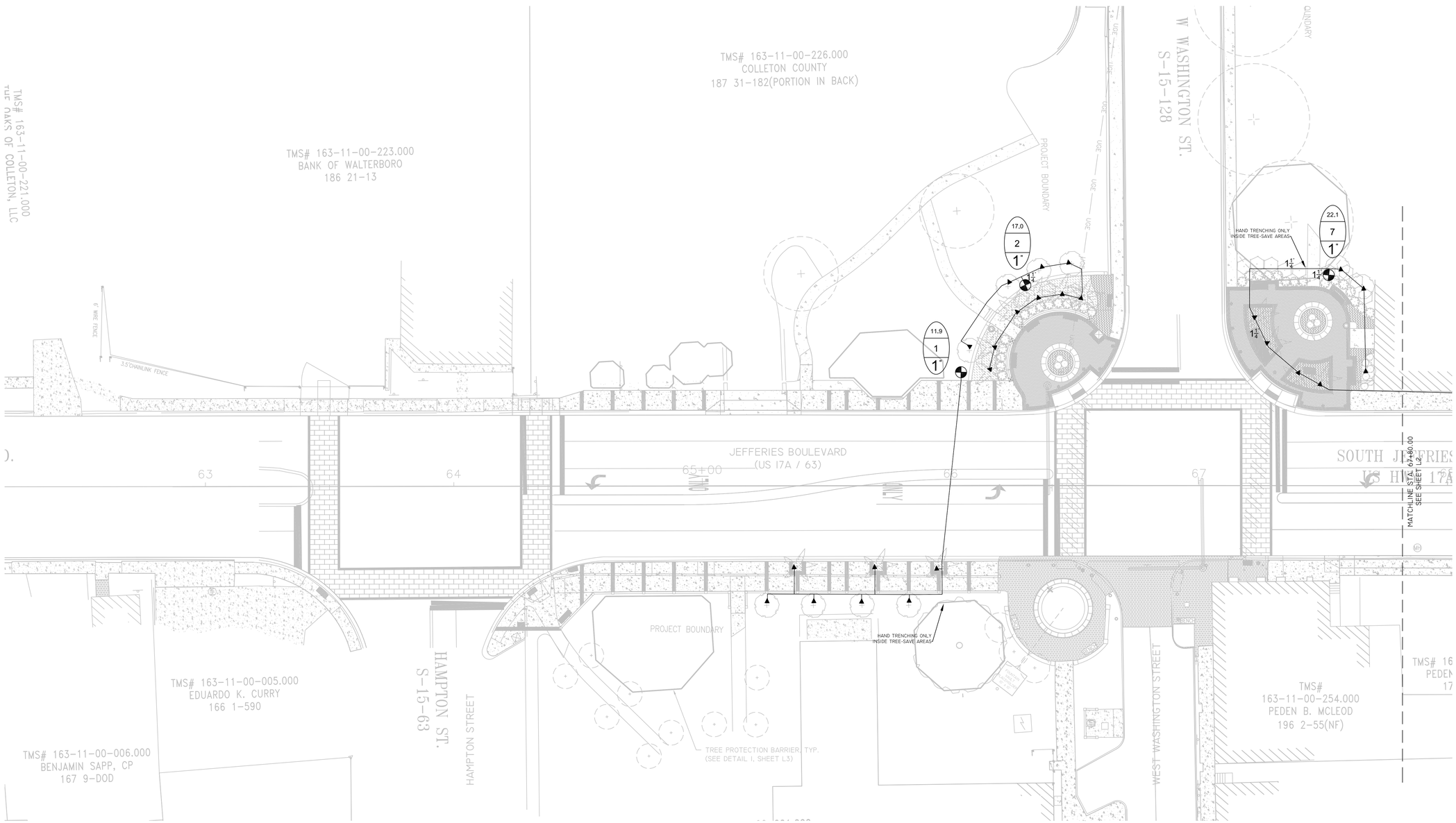
NOT FOR CONSTRUCTION

DGN: BH/KH
R/W: CJ
CHK: MB

#	REVISION	DATE	BY

SHEET NUMBER
L14

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	COLLETON	0041932	02-14011	SC 63		



PREPARED FOR:

CITY OF WALTERBORO SOUTH CAROLINA

95% PLANS

I-95 BUSINESS LOOP PHASES 1B

Walterboro, South Carolina

NOT FOR CONSTRUCTION

DGN: BH/KH
R/W: CJ
CHK: MB

#	REVISION	DATE	BY

Simmons Irrigation Supply
P.O. BOX 10
526 SIDNEYS ROAD
WALTERBORO, SC 29488
PH: (843)538-5566
FAX: (843)538-2068
sisinc@lowcountry.com

DAVIS & FLOYD
SINCE 1954
WWW.DAVISFLOYD.COM

3229 W. MONTAGUE AVENUE
NORTH CHARLESTON, SC 29418
(843) 554-8652

NOT FOR CONSTRUCTION

This drawing copy may have been reproduced at a size different than the original drawing. No responsibility is assumed for the use of incorrect scale. Drawings are not to be scaled.

South Carolina 811 Call 811 Before you Dig

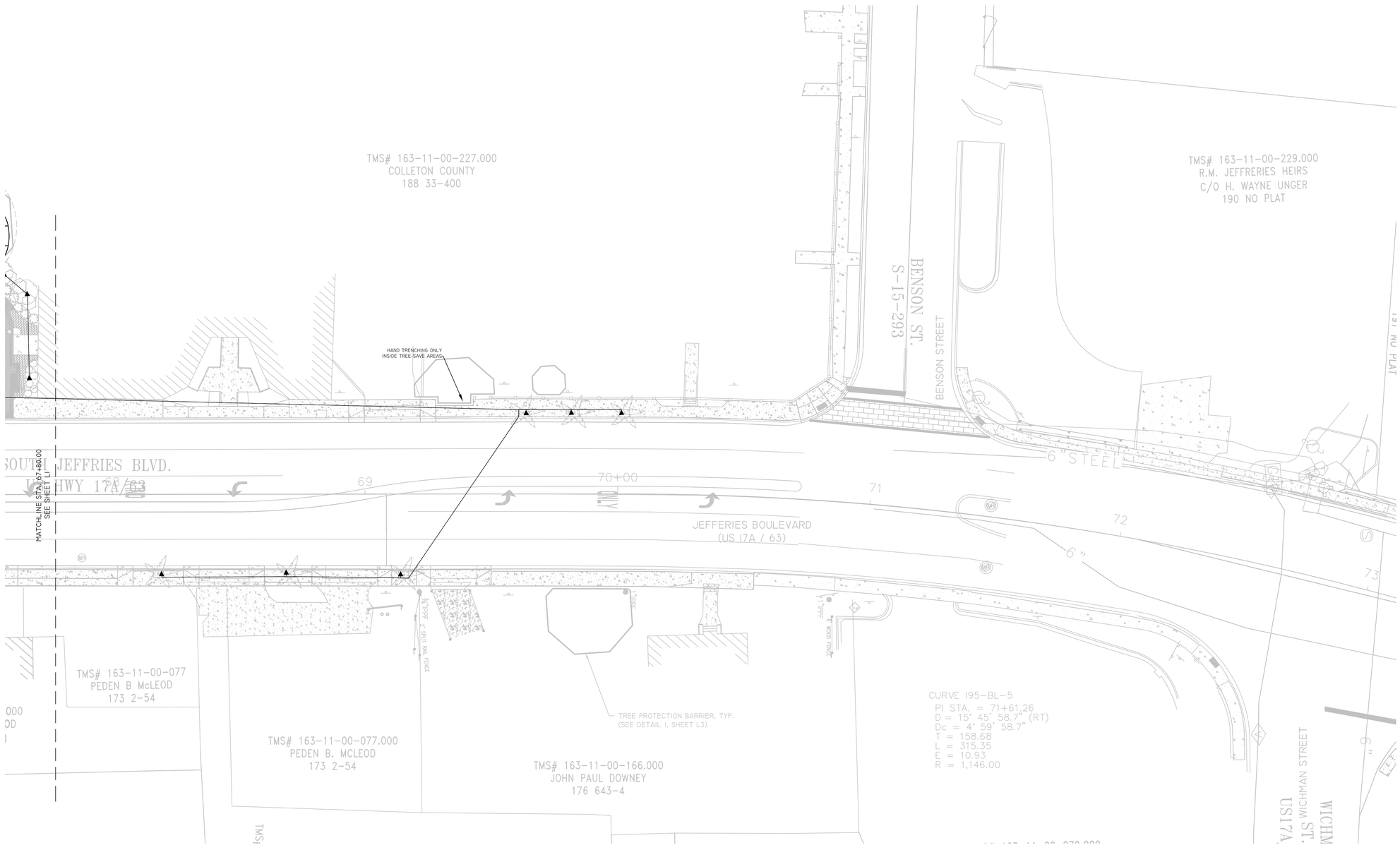
Wood+Partners Inc. WPi
Landscape Architects
Land Planners
1211 Miccosukee Road ■ Tallahassee, FL 32308
850.391.0360 ■ Fax 850.386.1010 ■ www.woodandpartners.com

0 10' 20' 40' 60' 80'
SCALE: 1" = 20'

NORTH

SHEET NUMBER
L15

FED. RD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	COLLETON	0041932	02-14011	SC 63		



PREPARED FOR:

95% PLANS

I-95 BUSINESS LOOP PHASES 1B

Walterboro, South Carolina

NOT FOR CONSTRUCTION

DGN: BH/KH
R/W: CJ
CHK: MB

#	REVISION	DATE	BY

Simmons Irrigation Supply
P.O. BOX 10
526 SIDNEYS ROAD
WALTERBORO, SC 29488
PH: (843)538-5566
FAX: (843)538-2068
sisinc@lowcountry.com

DAVIS & FLOYD
SINCE 1954
WWW.DAVISFLOYD.COM
3229 W. MONTAGUE AVENUE
NORTH CHARLESTON, SC 29418
(843) 554-8602

NOT FOR CONSTRUCTION

This drawing copy may have been reproduced at a size different than the original drawing. No responsibility is assumed for the use of incorrect scale. Drawings are not to be scaled.

South Carolina 811 Call 811 Before you Dig

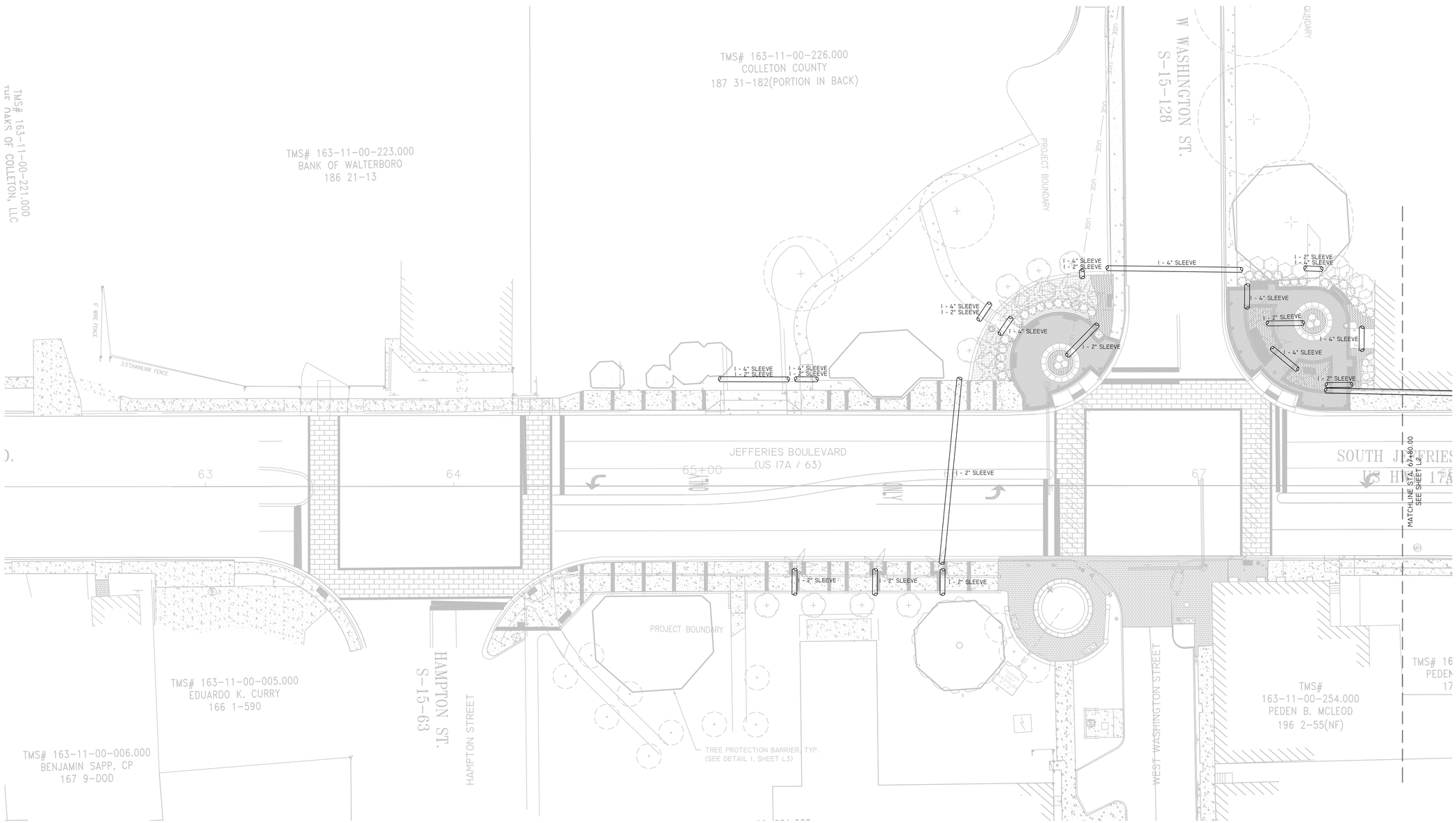
Wood+Partners Inc. WPi
Landscape Architects
Land Planners
1211 Miccosukee Road ■ Tallahassee, FL 32308
850.391.0360 ■ Fax 850.386.1010 ■ www.woodandpartners.com

0 10' 20' 40' 60' 80'
SCALE: 1" = 20'

NORTH

SHEET NUMBER
L16

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	COLLETON	0041932	02-14011	SC 63		



PREPARED FOR:

CITY OF WALTERBORO SOUTH CAROLINA

95% PLANS

I-95 BUSINESS LOOP PHASES 1B

Walterboro, South Carolina

NOT FOR CONSTRUCTION

DGN: BH/KH
R/W: CJ
CHK: MB

#	REVISION	DATE	BY

Simmons Irrigation Supply
P.O. BOX 10
526 SIDNEYS ROAD
WALTERBORO, SC 29488
PH: (843)538-5566
FAX: (843)538-2068
sisinc@lowcountry.com

DAVIS & FLOYD
SINCE 1954
WWW.DAVISFLOYD.COM

3229 W. MONTAGUE AVENUE
NORTH CHARLESTON, SC 29418
(843) 744-8622

NOT FOR CONSTRUCTION

This drawing copy may have been reproduced at a size different than the original drawing. No responsibility is assumed for the use of incorrect scale. Drawings are not to be scalled.

South Carolina 811 Call 811 Before you Dig

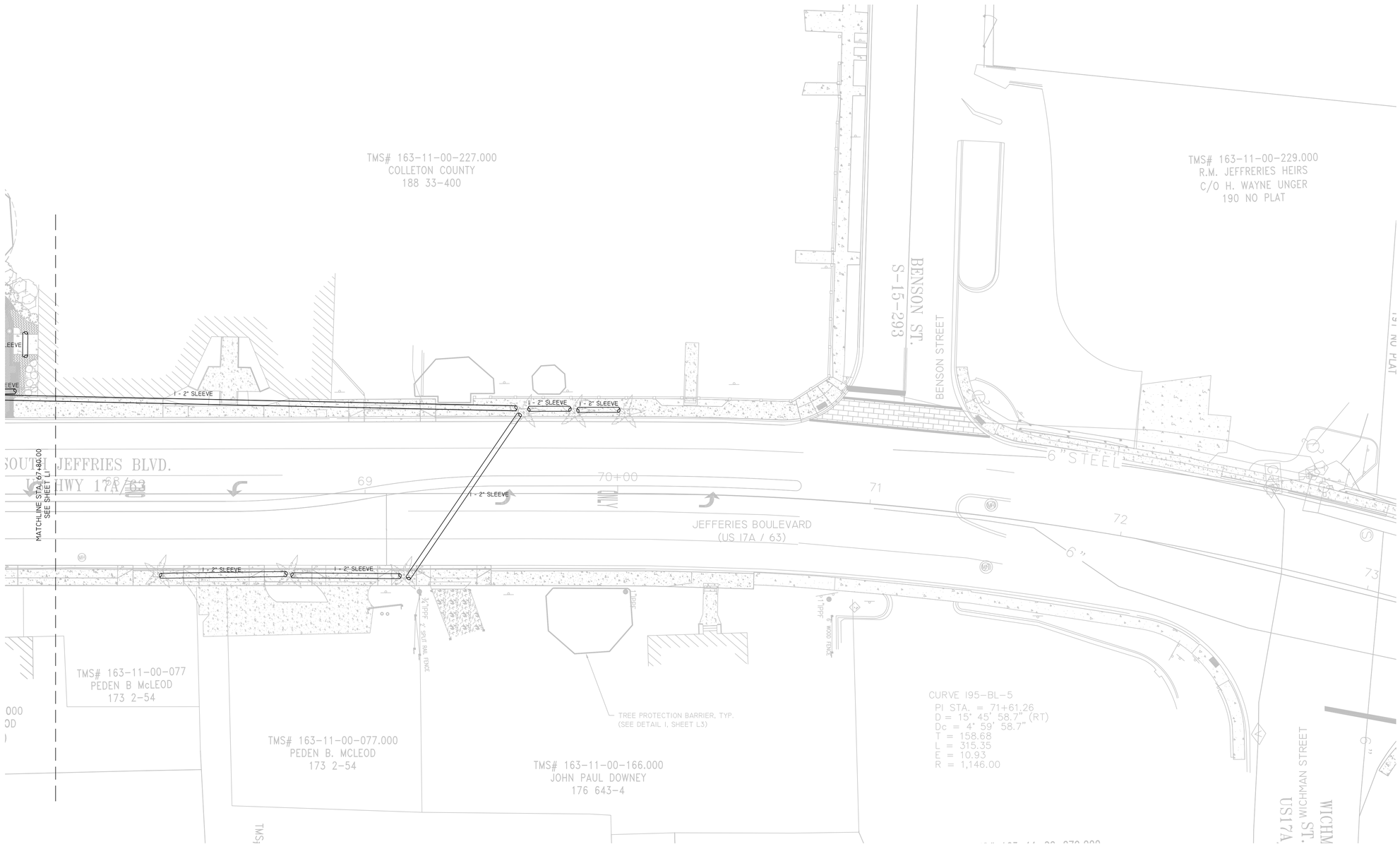
Wood+Partners Inc. WPi
Landscape Architects
Land Planners
1211 Miccosukee Road ■ Tallahassee, FL 32308
850.391.0360 ■ Fax 850.386.1010 ■ www.woodandpartners.com

0 10' 20' 40' 60' 80'
SCALE: 1" = 20'

NORTH

SHEET NUMBER
L17

FED. RD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	COLLETON	0041932	02-14011	SC 63		



PREPARED FOR:

95% PLANS

I-95 BUSINESS LOOP PHASES 1B

Walterboro, South Carolina

NOT FOR CONSTRUCTION

DGN: BH/KH
R/W: CJ
CHK: MB

#	REVISION	DATE	BY

Simmons Irrigation Supply
P.O. BOX 10
526 SIDNEYS ROAD
WALTERBORO, SC 29488
PH: (843)538-5566
FAX: (843)538-2068
sisinc@lowcountry.com

DAVIS & FLOYD
SINCE 1954
WWW.DAVISFLOYD.COM
3229 W. MONTAGUE AVENUE
NORTH CHARLESTON, SC 29418
(843) 554-2408 FAX 554-5602

NOT FOR CONSTRUCTION

This drawing copy may have been reproduced at a size different than the original drawing. No responsibility is assumed for the use of incorrect scale. Drawings are not to be scaled.

South Carolina 811 Call 811 Before you Dig

Wood+Partners Inc. WPi
Landscape Architects
Land Planners
1211 Miccosukee Road ■ Tallahassee, FL 32308
850.391.0360 ■ Fax 850.386.1010 ■ www.woodandpartners.com

0 10' 20' 40' 60' 80'
SCALE: 1" = 20'

NORTH

SHEET NUMBER
L18

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	COLLETON	0041932	02–14011	SC 63		

PRODUCTS

RAIN BIRD ESP–LXME SERIES CONTROLLER (OR APPROVED EQUAL)

- FLEXIBLE FEATURES AND MODULAR OPTIONS MAKIING CONTROLLER IDEAL FOR A WIDE VARIETY OF APPLICATIONS INCLUDING LIGHT COMMERCIAL, COMMERCIAL, AND INDUSTRIAL IRRIGATION SYSTEMS.
- MODULAR OPTIONS INCLUDE MODULAR STATION CAPAICITY, FLOW SENSING, METAL CASE AND PEDESTAL, ETC MANAGER SMART CARTRIDGE, AND IQ v2.0 CENTRAL CONTTROL COMMUNIICATION CARRTRIDGES. THESE OPTIONS FIELD INSTALLED AND CAN UPGRADE AND ENHANCE ESP–LXME AT ANY FUTURE TIME.
- CONTROLLER UTILIZES RAIN BIRD ESP EXTRA–SIMPLE PROGRAMMING USER INTERFACE.
- DIAL, SWITCHES, AND BUTTONS INTERFACE WITH RAIN BIRD STANDARD CONTROLLER INTERFACE FOR THE IRRIGATION INDUSTRY.
- LARGE LCD DISPLAY INCORPORATES SOFTKEY TEXT LABLELS FOR BUTTON FUNCTIONS RATHER THAN DEDICATED BUTTONS.
- THE ESP–LXME CONTRALLER IS EASY TO INSTALL WITH SPACIOUS CASE AND QUICK–CONNECT TERMINALS MAKING INSTALLATION FAST AND EASY. MULTIPLE SIZE WIRING KNOCKOUTS ARE PROVIDED ON BOTTOM AND BACK SIDE OF CASE TO ADAPT TO A WIDE VARIETY OF WIRING APPLICATIONS.
- DOOR AND FRONT PANEL ARE REMOVABLE SO CASE CAN BE EASILY MOUNTED TO WALL.
- PLASTIC, LOCKING, UV RESISTANT, WALL–MOUNT CASE.
- OPTIONAL METAL CASE OR PEDESTAL.
- 8–, OR 12–STATIONS BASE UNIT EXPANDABLE TO 48 STATIONS WITH 4–, 8–, AND 12–STATION MODULES.
- FLOW SMART MODULE FACTORY INSTALLED OR FIELD UPGRADABLE.
- LARGE LCD DISPLAY WITH EASY TO NAVIGET SOFTKEY USER INERFACE.
- HOT–SWAPPABLE MODULES, NO NEED TO POWER DOWN THE CONTROLLER TO ADD/REMOVE MODULES.
- DYNAMIC STATION NUMBERING ELIMINATES STATION NUMBERING GAPS.
- WEATHER SENSOR INPUT WITH OVERRIDE SWITCH.
- MASTER VALVE/PUMP START CIRCUIT.
- 6 USER–SELECTABLE LANGUAGES.
- NON–VOLITILE (100–YEAR) PROGRAM MEMORY.
- STANDARD 10kV SURGE PROTECTION.
- FRONT PANEL REMOVABLE AND PROGRAMMABLE UNDER BATTERY POWER.
- OPTIONAL FLOW SMART MODULE WITH LEARN FLOW UTILITY AND FLOW USAGE TOTALIZER. FLOWATCH PROTECTION FOR HIGH AND LOW FLOW CONDITIONS WITH USER DEFINED REACTIONS.
- FLOMANAGER MANAGES HYDRAULIC DEMEAND, MAKING FULL USE OF AVAILABLE WATER TO SHORTEN TOTAL WATERING TIME.
- SIMULSTATIONS ARE PROGRAMMABLE TO ALLOW UP TO 5 STATIONS TO OPERATE AT THE SAME TIME.
- WATER WINDOWS BY PROGRAM PLUS MANUAL MV WATER WINDOW.
- CYCLE+SOAK BY STATION.
- RAIN DELAY.
- 365–DAY CALENDAR DAY OFF.
- PROGRAMMABLE STATION DELAY BY PROGRAM.
- WEATHER SENSOR PROGRAMMABLE BY STATION TO PREVENT OR PAUSE WATERING.
- PROGRAM SEASONAL ADJUST
- GLOBAL MONTHLY SEASONAL ADJUST
- ALARM LIGHT WITH EXTERNAL CASE LENS.
- ELECTRIC DIAGNOSTIC CIRCUIT BREAKER.
- STATION TIMING: 0 MINS TO 12 HRS.
- SEASONAL ADJUST; 0% TO 300%
- 4 INDEPENDENT PROGRAMS (ABCD)
- ABCD PROGRAMS CAN OVERLAP
- 8 START TIMES PER PROGRAM
- PRGRAM DAY CYCLES INCLUDE CUSTOM DAYS OF THE WEEK, ODD, ODD31, EVEN, & CYCLINAL DATES.
- MANUAL STATION, PROGRAM, TEST PROGRAM.

RFS IRRITROL RFS WIRELESS RAIN/FREEZE SENSOR (OR APPROVED EQUAL)

- COMPATIBLE WITH NEARLY ALL CONTROLLERS.
- VISUAL SENSOR STATUS AND ALERT INDICATORS VERIFY CONSISTENT OPERATION.
- SLIDE/SNAP–ON COVER PROVIDES ADDITIONAL PROTECTION TO WEATHER–PROOF RECEIVER FROM THE ELEMENTS.
- POWER FAILURE MEMORY PROTECTION.
- THREE–YEAR WARRANTY.
- RAIN AND FREEZE SENSORS FULLY INTEGRATED INTO ONE UNIT.
- HIGHLY ACCURATE 41° F DIGITAL ACTIVATION POINT.
- RAIN AND FREEZE SENSORS FULLY INTEGRATED INTO ONE UNIT.
- SENSOR TYPE: INDUSTRY–STANDARD HYGROSCOPIC DISCS.
- RAIN SENSITIVITY: ADJUSTABLE NOMINAL 1/8" TO 3/4".
- OPERATING TEMPERATURE: 20° F TO 120° F.
- HOUSING MATERIAL: UV–RESISTANT ENGINEERED POLYMER.
- WIRELESS ONLY FEATURES: TRANSMISSION RANGE: OVER 300 FEET LINE–OF–SIGHT. BATTERY: TWO CR2032 3V CELLS, 5–YEAR LIFE (TYPICAL).
- RECEIVER POWER: 22–28 V/ac/V dc, 100mA TO BE USED WITH CLASS 2, UL–APPROVED (TRANSFORMER).
- LOAD RATING: NORMALLY OPEN OR NORMALLY CLOSED – 3A @24V ac.
- UL LISTED, FCC, CE, IC.

RAIN BIRD PEB SERIES ELECTRIC REMOTE–CONTROL VALVE (OR APPROVED EQUAL)

- 1", 1 1/2", 2"
- DURABLE GLASS–FILLED NYLON CONSTRUCTION FOR LONG LIFE AND RELIABLE PERFORMANCE.
- GLOBE CONFIGURATION.
- NORMALLY CLOSED, FORWARD FLOW DESIGN.
- SLOW CLOSING TO PREVENT WATER HAMMER AND SUBSEQUENT SYSTEM DAMAGE.
- ONE–PIECE SOLENOID WITH CAPTURED PLUNGER AND SPRING FOR EASY SERVICING. PREVENTS LOSS OF PARTS DURING FIELD SERVICE.
- FLOW CONTROL HANDLE ADJUSTS WATER FLOW AS NEEDED.
- MANUAL INTERNAL BLEED OPERATES THE VALVE WITHOUT ALLOWING WATER INTO THE VALVE BOX.
- PRESSURE: 20 TO 200 PSI.
- FLOW: 0.25 TO 200 GPM.
- POWER: 24 VAC.

RAIN BIRD 1800 SERIES POPUP SPRAYHEAD

- 2", 3", 4", 6" AND 12".
- EXCLUSIVE CO–MOLDED SEAL FEATURES AN ENCASED PLASTIC "CAGE" TO PROVIDE UNMATCHED RESISTANCE TO GRIT, PRESSURE AND THE ENVIRONMENT. ADDITIONALLY, THE PRESSURE–ACTIVATED, MULTI–FUNCTION SEAL DESIGN ASSURES A POSITIVE SEAL WITHOUT EXCESS "FLOW–BY" WHICH ENABLES MORE HEADS TO BE INSTALLED ON THE SAME VALVE.
- PRECISION CONTROLLED FLUSH AT POP–DOWN CLEARS DEBRIS FROM UNIT, ASSURING POSITIVE STEM RETRACTION IN ALL SOIL TYPES.
- STRONG STAINLESS STEEL SPRING PROVIDES RELIABLE STEM RETRACTION.
- TWO–PIECE RATCHET MECHANISM ON ALL MODELS ALLOWS EASY NOZZLE PATTERN ALIGNMENT AND PROVIDES ADDED DURABILITY.
- PRE–INSTALLED ORANGE 1800 POP–TOP FLUSH PLUG BLOCKS DEBRIS FROM ENTERING AFTER FLUSHING. ALLOWS FOR EASY NOZZLE INSTALLATION.
- CONSTRUCTED OF TIME–PROVEN UV–RESISTANT PLASTIC AND CORROSION RESISTANT STAINLESS STEEL PARTS, ASSURING LONG PRODUCT LIFE.
- ALL SPRINKLER COMPONENTS ARE REMOVABLE FROM THE TOP WITHOUT SPECIAL TOOLS, PROVIDING FOR QUICK AND EASY FLUSHING AND MAINTENANCE OF THE SPRINKLER.
- PRESSURE: 15 TO 70 PSI.
- SPACING: 3 TO 20 FEET.
- 1/2" NPT FEMALE THREADED INLET.

SST–PCS 12' PCS RAIN BIRD PRESSURE COMPENSATING SCREEN

- COMPENSATES FOR PRESSURE VARIATIONS.
- ELIMINATES FOGGING AND WATER WASTE CAUSED BY HIGH PRESSURES.
- NOZZLES CAN BE MATCHED WITH SCREENS TO CREATE SHORT–THROW, REDUCED–RADIUS PATTERNS AND/OR FLUSH–MOUNTED BUBBLERS.
- COLOR–CODED FOR EASY IDENTIFICATION.
- USE WITH ALL 1800 SERIES PLASTIC NOZZLES (MPR, VAN, U–SERIES, STRIPS, AND BUBBLERS).
- FLOW: 0.10 TO 3.70 GPM.
- PRESSURE: 15 TO 70 PSI.

▲ HUNTER AFB SERIES ADJUSTABLE FLOW BUBBLER (OR APPROVED EQUAL)

- PRESSURE COMPENSATES TO 2.0 GPM FLOW.
- CAN BE FINE–TUNED WITH A STAINLESS STEEL SCREW ADJUSTMENT.
- 1/2" FIPT.

RAIN BIRD QUICK–COUPLING VALVE (OR APPROVED EQUAL)

- RED BRASS CONSTRUCTION FOR LONG LIFE AND RUGGED PERFORMANCE.
- YELLOW THERMOPLASTIC COVER FOR DURABILITY. OPTIONAL LOCKING COVER ON MODELS 33DLRC, 44LRC, AND 5LRC (USE 2049 KEY TO UNLOCK). METAL COVER ON MODEL 7 ONLY.
- ONE–PIECE BODY DESIGN (MODELS 3RC, 5RC, AND 7).
- TWO–PIECE BODY DESIGN FOR EASY SERVICING (MODELS 33DRC, 44LRC, AND 44RC).
- STRONG CORROSION–RESISTANT STAINLESS STEEL SPRING PREVENTS LEAKAGE.
- PRESSURE: 5 TO 125 PSI.
- FLOW: 10 TO 125 GPM.
- MODELS:
- 3RC: 3/4" RUBBER COVER, 1–PIECE BODY.
- 33DRC: 3/4" DOUBLE TRACK KEY LUG, RUBBER COVER, 2–PIECE BODY.
- 33DLRC: 3/4" DOUBLE TRACK KEY LUG, LOCKING RUBBER COVER, 2–PIECE BODY.
- 44RC: 1" RUBBER COVER, 2–PIECE BODY.
- 44LRC: 1" LOCKING RUBBER COVER, 2–PIECE BODY.
- 5RC: 1" RUBBER COVER, 1–PIECE BODY.
- 5LRC–: 1" LOCKING RUBBER COVER, 1–PIECE BODY.
- 7: 1 1/2" METAL COVER, 1–PIECE BODY.

GENERAL NOTES

PROJECT CONDITIONS

- PERFORM SITE SURVEY, RESEARCH PUBLIC UTILITY RECORDS, AND VERIFY EXISTING UTILITY LOCATIONS. VERIFY THAT IRRIGATION SYSTEM PIPING MAY BE INSTALLED IN COMPLIANCE WITH ORIGINAL DESIGN AND REFERENCED STANDARDS.

WATER SOURCE

- INSTALLER SHOULD CONFIRM THE MINIMUM DISCHARGE REQUIREMENTS OF THE WATER SOURCE AS INDICATED ON THE DRAWING LEGEND PRIOR TO INSTALLATION.
- IF SOURCE IS LESS THAN MINIMUM REQUIREMENT, CONSULT WITH A DESIGNER FOR POSSIBLE HYDRAULIC CHANGES.

BACKFLOW PREVENTER

- DESIGN UTILIZES AN INLINE DOUBLE CHECK BACKFLOW PREVENTER DEVICE. INSTALLER MUST CONFIRM WITH THE LOCAL WATER AUTHORITY, THEIR APPROVED TYPE DEVICE AND INSTALLATION METHODS IN ORDER TO CONFORM WITH LOCAL CODES. IF A DIFFERENT TYPE DEVICE IS USED, CONSULT WITH A DESIGNER FOR POSSIBLE HYDRAULIC CHANGES.

SLEEVING

- A MINIMUM OF PR–200 PVC SLEEVES SHOULD BE USED UNDER ANY HARDSCAPING. (EXAMPLE: SIDEWALKS AND DRIVES).
- SLEEVES TO BE A MINIMUM OF (2) PIPE SIZES LARGER THAN THE PIPE RUNNING THROUGH IT.
- A SEPARATE SLEEVE IS RECOMMENDED FOR WIRE.
- WHERE MAINLINE AND WIRE ARE ROUTED THROUGH A COMMON SLEEVE/BORE, WIRE TO BE INSTALLED IN A SEPARATE INNER CONDUIT.

PIPE AND FITTINGS

- ALL PIPE 1" OR SMALLER TO BE PR–200 SDR–21 SOLVENT WELD PVC PIPE.
- ALL PIPE 1 1/4" OR LARGER TO BE PR–160 SDR–26 SOLVENT WELD PVC PIPE.
- ALL PVC PIPE FITTINGS TO BE SCHEDULE 40, SOCKET–TYPE.
- PVC PIPING AND FITTINGS SOLVENT–CEMENTED JOINTS TO BE CONSTRUCTED UTILIZING CLEANER, PURPLE PRIMER, AND SOLVENT CEMENTS.
- GENERAL LOCATIONS AND ARRANGEMENTS: DRAWINGS INDICATED GENERAL LOCATION AND ARRANGEMENT OF PIPING SYSTEMS. INDICATED LOCATIONS AND ARRANGEMENTS WERE USED FOR DESIGN LEGIBILITY, TO SIZE PIPE AND CALCULATE FRICTION LOSS, AND OTHER DESIGN CONSIDERATIONS.
- MINIMUM COVER: PROVIDE THE FOLLOWING MINIMUM COVER OVER TOP OF BURIED PIPING OR 12" BELOW THE AVERAGE LOCAL FROST DEPTH, WHICHEVER IS THE GREATER DEPTH.
  PRESSURE PIPING: 18" OF COVER FOR PIPE 2 1/2" AND SMALLER; 24" FOR PIPE 3" AND 4"; AND 30" FOR PIPE 6" AND LARGER.
  CIRCUIT PIPING: 18" OF COVER FOR CIRCUIT PIPE.
  DRAIN PIPING: 18" OF COVER FOR PIPE 4" AND SMALLER; 24" FOR PIPE 6" AND LARGER.
  SLEEVES: 24" OF COVER FOR PIPE 6" AND SMALLER; 30" FOR PIPE 8" AND LARGER.
- PRIOR APPROVAL BY LANDSCAPE ARCHITECT MUST BE OBTAINED FOR ALL TRENCHING AROUND EXISTING SPECIMEN/LARGE TREES.
- ONLY HAND TRENCHING WILL BE ALLOWED WITHIN THE "TREE SAVE" AREAS.

SCHEDULING

- ADJUST SETTINGS OF CONTROLLERS AND AUTOMATIC CONTROL VALVES, AND PROVIDE WRITTEN SCHEDULE TO OWNER.

WIRING

- SOLID COPPER CONDUCTOR, INSULATED CABLE, SUITABLE FOR DIRECT BURIAL.
- LOW–VOLTAGE, BRANCH CIRCUIT CABLES: TYPE PE, NO. 14 AWG MINIMUM, BETWEEN CONTROLLERS AND AUTOMATIC CONTROL VALVES. JACKET COLOR IS OTHER THAN FEEDER–CIRCUIT–CABLE JACKET COLOR.
- SPLICING MATERIALS: 3M DBRY OR APPROVED EQUAL.

VALVE/ZONE IDENTIFICATION

30.0 / 1 / 1½" — GALLONS PER MINUTE; 1 = ZONE #; VALVE SIZE

30.0 / 2D / 1½" — GALLONS PER MINUTE; 2 = ZONE #, d = DRIP ZONE; VALVE SIZE

SPRINKLER INSTALLATION

- LOCATION OF SPRINKLERS AND DEVICES: DESIGN LOCATION IS APPROXIMATE. MINOR FIELD ADJUSTMENTS MAY BE NECESSARY TO AVOID PLANTINGS AND OBSTRUCTIONS SUCH AS SIGNS AND LIGHT STANDARDS.
- SPRINKLERS TO BE SPACED NO GREATER THAN 50% – 55% OF DIAMETER OF THROW AT OPTIMUM PERFORMANCE PRESSURE. THIS WILL ACHIEVE "HEAD TO HEAD" COVERAGE PERFORMANCE.
- FLUSH CIRCUIT PIPING WITH FULL HEAD OF WATER AND INSTALL SPRINKLERS AFTER HYDROSTATIC TEST IS COMPLETE.
- INSTALL LAWN SPRINKLERS AT MANUFACTURE'S RECOMMENDED HEIGHTS.
- INSTALL SHRUBBERY SPRINKLERS AT HEIGHTS INDICATED.
- LOCATE PART–CIRCLE SPRINKLERS TO MAINTAIN A MINIMUM DISTANCE OF 6" FROM WALLS AND 3" FROM OTHER BOUNDARIES (SIDEWALKS, CURBS) UNLESS OTHERWISE INDICATED.
- CAREFULLY ADJUST LAWN SPRINKLERS SO THEY WILL BE FLUSH WITH, OR NOT MORE THAN 1/2" ABOVE, FINISH GRADE AFTER COMPLETION OF LANDSCAPE WORK.
- CAREFULLY ADJUST ALL SPRINKLERS IN MULCH AREAS SO THEY WILL BE PLUMB AND FLUSH WITH TOP OF MULCH GRADE.
- ALL SPRAYHEAD NOZZLES INDICATED ON PLAN.
- USE VANS (VARIABLE ARC NOZZLE) WHERE INDICATED ON PLAN.

VALVE INSTALLATION

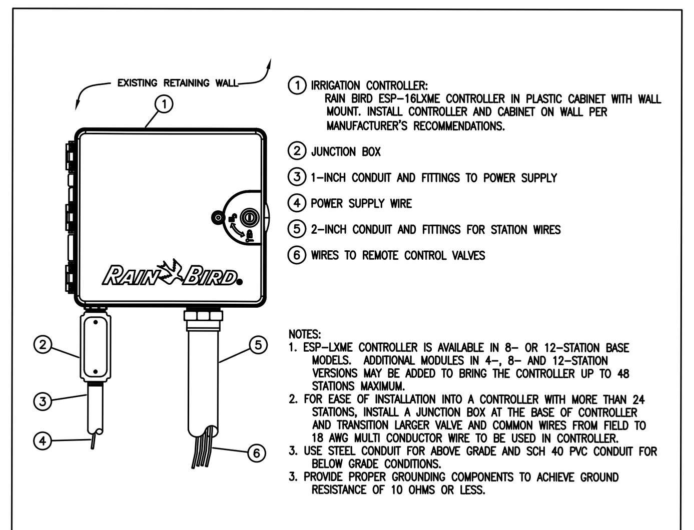
- ALL VALVES (MANUAL AND ELECTRIC) TO BE INSTALLED IN A NDS #212BC 10" ROUND PRO SERIES VALVE BOX WITH LID (UNLESS OTHERWISE NOTED).
- CONTRACTOR TO ADJUST THE FLOW CONTROL HANDLE IN ORDER TO ACHIEVE PROPER VALVE OPERATION AND OPTIMUM SPRINKLER PERFORMANCE.
- VALVES SHALL NOT BE PLACED WITHIN 5 FEET OF ANY DRIVEWAY, OR WHERE THEY CAN BE DAMAGED BY VEHICLES.

ELEVATION

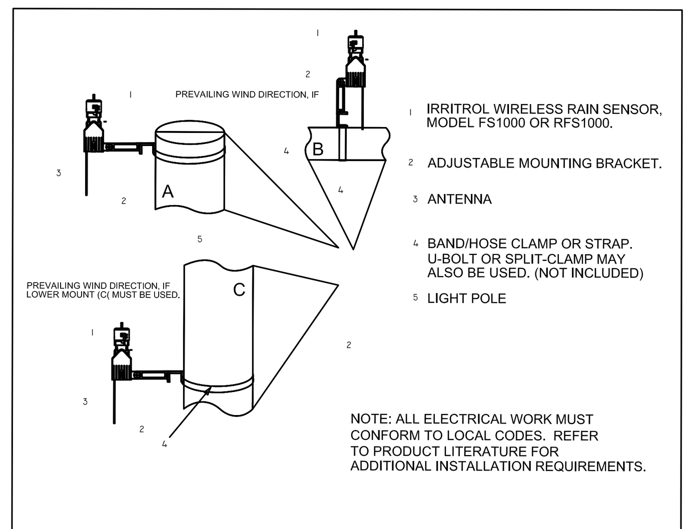
- THE PRESSURE REQUIREMENT OF THE WATER SOURCE IS BASED ON NO MORE THAN 5 FEET OF ELEVATION CHANGE THROUGHOUT THE IRRIGATION COVERAGE AREA. IF SITE HAS GREATER ELEVATION CHANGE, CONSULT WITH DESIGNER FOR POSSIBLE HYDRAULIC CHANGE.

BUBBLER INSTALLATION

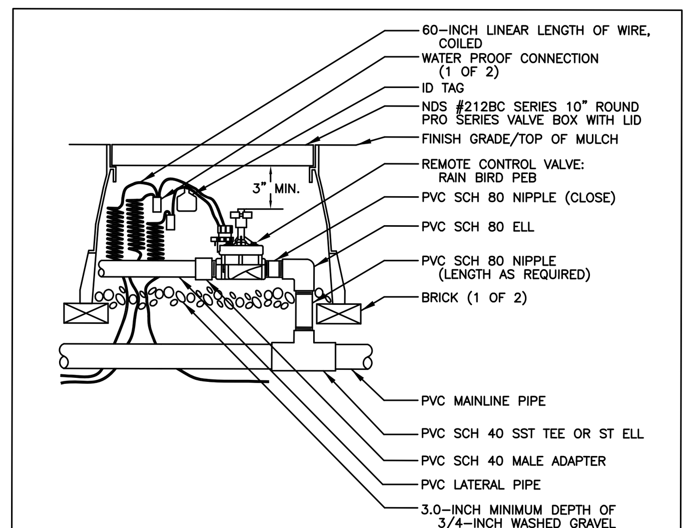
- IRRIGATION CONTRACTOR OR LANDSCAPE MANAGER TO ADJUST THE FLOW OF THE BUBBLER AND/OR CONTROLLER RUN TIME SCHEDULE IN ORDER TO ACHIEVE OPTIMUM GROWING CONDITIONS FOR EACH PLANT IN REGARD TO: PLANT SIZE, TYPE, MATURITY, SOIL CONDITIONS, SITE LOCATION, DRAINAGE, AND PLANTING SEASON.



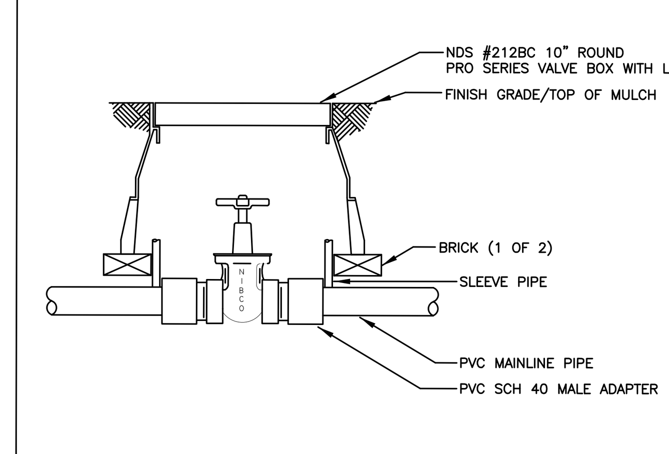
ESP–LXME SERIES CONTROLLER (OR APPROVED EQUAL)



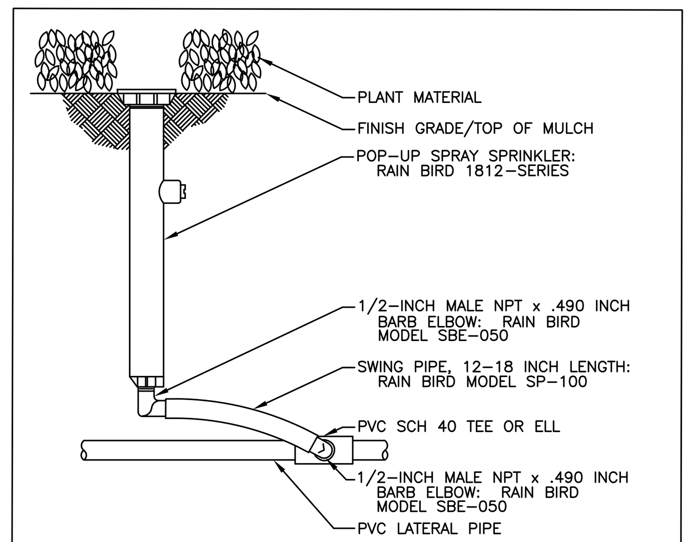
WIRELESS RAIN/FREEZE SENSOR (OR APPROVED EQUAL)



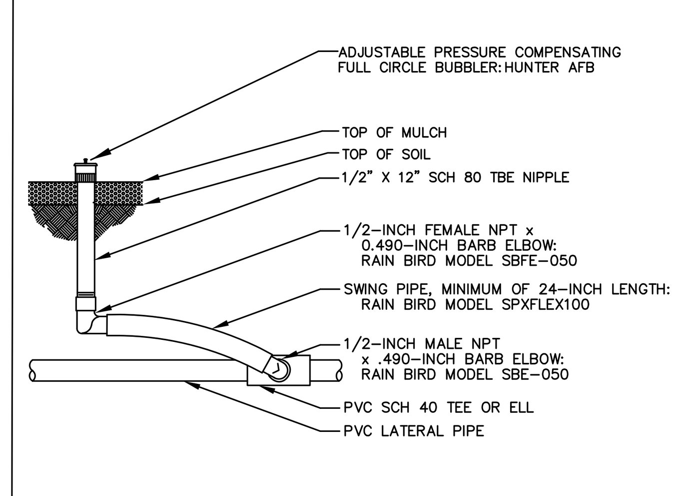
REMOTE CONTROL VALVE (OR APPROVED EQUAL)



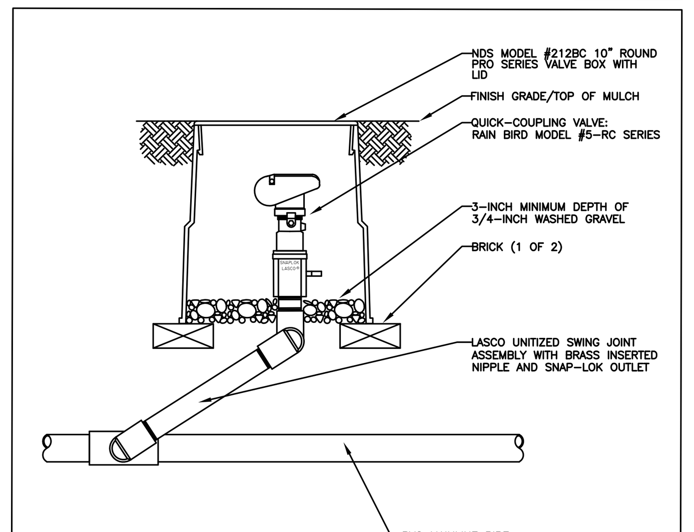
MANUAL GATE VALVE (OR APPROVED EQUAL)



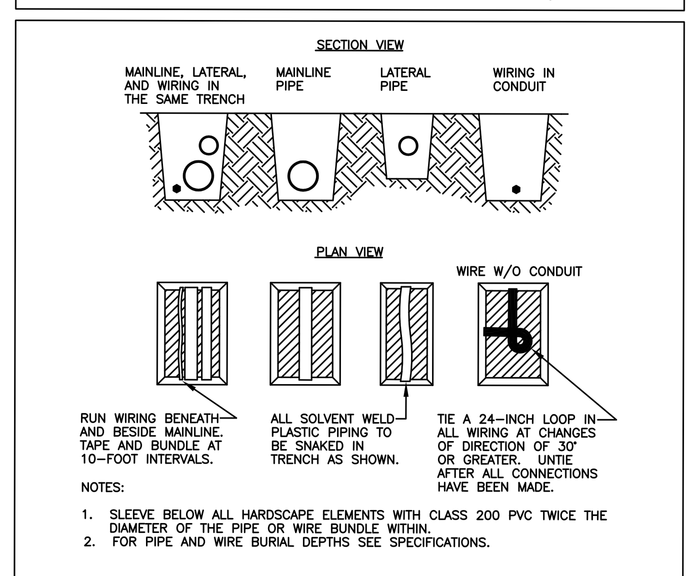
POP–UP SPRAY SPRINKLER (OR APPROVED EQUAL)



BUBBLER (OR APPROVED EQUAL)



QUICK–COUPLING VALVE (OR APPROVED EQUAL)



PIPE & WIRE TRENCHING

ITEM	SYMBOL	DESCRIPTION
1		RAIN BIRD ESP–16LXME SERIES MODULAR CONTROLLER (OR APPROVED EQUAL)
2	RFS	IRRITROL RFS1000 SERIES WIRELESS RAIN/FREEZE SENSOR (OR APPROVED EQUAL)
3		RAIN BIRD 100–PEB SERIES ELECTRIC VALVE (OR APPROVED EQUAL)
4		RAIN BIRD 1812 SERIES 12" POPUP SPRAYHEAD (OR APPROVED EQUAL)
5	SST–PCS	RAIN BIRD 1812 SERIES 12" POPUP SPRAYHEAD W/ 15SST–PCS–040 NOZZLE (OR APPROVED EQUAL)
6	12' PCS	RAIN BIRD 1812 SERIES 12" POPUP SPRAYHEAD W/ 12'Q–PCS–020 NOZZLE (OR APPROVED EQUAL)
7	▲	HUNTER AFB SERIES PRESSURE COMPENSATING ADJUSTABLE FLOW BUBBLER
8		WILKINS MODEL 950–XLT 1" BACKFLOW PREVENTER (OR APPROVED EQUAL)
9	M	1" METER
10	———	ALL LATERAL PIPE TO BE 1" PR–200 SOLVENT WELD PVC UNLESS OTHERWISE INDICATED
11	———	ALL MAINLINE PIPE TO BE PR–160 SOLVENT WELD PVC (SIZE AS INDICATED)
12		NIBCO T–113BHW BRONZE 200 W.O.G. 1" GATE VALVE (OR APPROVED EQUAL)
13		RAIN BIRD #5RC QUICK–COUPLING VALVE (OR APPROVED EQUAL)
WATER SOURCE:		1" METER TO PROVIDE A MINIMUM DISCHARGE OF 23 GPM AT 55 PSI FOR SYSTEM TO OPERATE PROPERLY.

PREPARED FOR: CITY OF WALTERBORO SOUTH CAROLINA

95% PLANS
I-95 BUSINESS LOOP PHASES 1B
Walterboro, South Carolina

MARION R. SIMMONS III CERTIFIED IRRIGATION DESIGNER #035882

NOT FOR CONSTRUCTION

DGN: BH/KH
R/W: CJ
CHK: MB

#	REVISION	DATE	BY

Simmons Irrigation Supply
P.O. BOX 10
526 SIDNEYS ROAD
WALTERBORO, SC 29488
PH: (843)538-5566
FAX: (843)538-2068
sisinc@lowcountry.com

DAVIS & FLOYD
SINCE 1954
WWW.DAVISFLOYD.COM
3229 W. MONTAGUE AVENUE
CHARLESTON, SC 29418
(843) 554–8602

NOT FOR CONSTRUCTION
This drawing copy may have been reproduced at a size different than the original drawing. No responsibility is assumed for the use of incorrect scale. Drawings are not to be scaled.

South Carolina 811 Call 811 Before you Dig

Wood+Partners Inc. WPi
Landscape Architects
Land Planners
1211 Miccosukee Road ■ Tallahassee, FL 32308
850.391.0360 ■ Fax 850.386.1010 ■ www.woodandpartners.com

NOT TO SCALE

SHEET NUMBER
L19

Irrigation-021418.dwg 2/14/2018 9:43:21 AM

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	COLLETON	0041932	02–14011	SC 63		

PREPARED FOR:

CITY OF WALTERBORO
242 HAMPTON STREET
WALTERBORO, SOUTH CAROLINA
29488

95% PLANS

I-95 BUSINESS LOOP PHASES 1B

Walterboro, South Carolina

NOT FOR CONSTRUCTION

DGN: MCT
R/W: CMB
CHK: MB

#	REVISION	DATE	BY

ELECTRICAL NOTES (RESPONSIBILITY OF INSTALLER) AS APPLICABLE TO THE SYSTEM

1. The installation of electrical equipment and wiring in water can produce extreme hazards. It is the responsibility of the installing contractor to consult and comply with all electrical codes and safety regulations prior to installation of electrical equipment. Local codes take precedence over the general notes where discrepancies or conflicts exist.
2. It is the responsibility of the installing contractor to verify all field dimensions critical to fountain equipment installation and performance and report any discrepancies, in writing, to Roman Fountains and the Architect/Engineer.
3. It is the responsibility of the installing contractor to insure that all electrical equipment is installed and wired by a QUALIFIED, LICENSED ELECTRICIAN experienced in fountain system wiring. Roman Fountains assumes no responsibility or liability whatsoever for installations not carried out by a qualified, licensed electrician in accordance with the approved shop drawings, and all provisions of the latest edition of NEC in general, Article 680 specifically, and local safety codes and regulations.
4. A Class 'A' ground fault circuit interrupter (GFCI) must be installed in each branch circuit supplying fountain equipment. Equipment operating at 15 volts or less must be protected by suitable transformer U.L. Listed and marked for the application.
5. Submersible lighting fixtures must be installed for operation at 150 volts or less between conductors. Submersible pumps must operate at 300 volts or less between conductors.
6. Submersible lighting fixtures must be installed with the top of the fixture lens a minimum of 2" below the normal operating water level and must have the lens adequately guarded to prevent contact by any person.
7. All electrical equipment which depends on submersion for safe operation must be protected against overheating by an independent low water cutoff device if the water level drops below normal operating level.
8. Per code, maximum length of exposed cord in the fountain is limited to 9 feet. Cords extending beyond fountain perimeter must be enclosed in approved wiring enclosures. Customer is responsible for any and all inspection issues resulting from requests or requirements for additional cord lengths.
9. All submersible niche lights must have sufficient cord length to allow removal from the water for relamping and normal maintenance. Fixtures cannot be permanently embedded in the fountain structure so that the water level must be reduced or the fountain drained for relamping, maintenance, or inspection.
10. Submersible equipment must be inherently stable or be securely fastened in place with non–corrosive fasteners suitable for the purpose (by installer).
11. Underwater junction boxes must be filled with an APPROVED RE–ENTERABLE ELECTRICAL POTTING COMPOUND (wax or paraffin is not acceptable) prior to filling pool and after all circuits have been checked to prevent the entry of moisture and be firmly attached to supports or directly to the fountain surface and bonded as required. All conduit stubbed up through pool floor must be red brass pipe, "Everdur", stainless steel or hard copper. PVC is not acceptable as a conduit support stub for submersible junction boxes. All conduit entries must be completely sealed prior to potting to prevent compound from entering conduit system.
12. All electrical conduit and conduit fittings between submersible light fixture niches, junction boxes and control panels shall be U.L. Listed rigid, nonmetallic, PVC Nema TC–2 max. 90°C, sunlight resistant for above and below ground use. All conduits shall be protected at all times from possible water ingress. Use only approved primer and PVC glue suitable for joining all PVC conduits and fittings per manufacturers instructions.
13. All underwater junction boxes must be equipped with threaded conduit entries and compression type cord connectors for cord entry. Strain relief connectors serving niche–mounted underwater lights shall be capable of sealing both the fixture cord and an AWG #8 insulated bonding wire which may be required by some local codes.
14. All electrical equipment must be properly bonded and grounded for safety, per the latest code requirements.
15. Use good quality thread sealant or PVC glue as required for conduit connections to eliminate all leaks. All conduit shall be sealed to prevent entry of moisture and to prevent water from draining into the fountain control panel.
16. All conduit connections between dissimilar metals must be made with dielectric fittings, and sealed with dielectric thread compound to prevent galvanic degradation.
17. Pull correct quantity and size conductors, wired with separate ground, through conduit into junction box. Make all splices and connections tight and well insulated. Connect ground wire to ground lug in junction box, or other suitable grounding location.
18 Insert each submersible cord through the brass cord seals provided on the junction box and tighten completely.
19. Do not operate submersible lights or pumps more than ten seconds unless completely submerged or damage will result and warranty will be void.
20. All starting and control equipment such as load centers, motor starters, GFCI's, conduit, fittings, brackets, pull boxes/condulets, etc. will be furnished by the installing contractor unless specifically quoted for and clearly labeled on blueprints as being furnished by Roman Fountains.

~~NOTE: Any & all costs associated in complying with the above are the~~ responsibility of installer.

NOTE
CONDUITS ENTERING FOUNTAIN SYSTEM CONTROL PANELS SHALL BE INSTALLED INTO BOTTOM OF ENCLOSURE IN THE EVENT WATER ENTERS CONDUIT AND FLOWS INTO PANEL THROUGH CONDUIT OPENINGS. DO NOT INSTALL ANY WATER LINES ABOVE THE CONTROL PANEL. A DRAIN OPENING MUST BE MADE IN BOTTOM OF ENCLOSURE PAN TO ALLOW DRAINAGE OF WATER FROM ENCLOSURE IN THE EVENT OF WATER INGRESS.

NOTE: WHERE CONFLICTS EXIST, WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED MEASUREMENTS.

NOTE
DUE TO OUR CONTINUING PRODUCT IMPROVEMENT, ROMAN FOUNTAINS RESERVES THE RIGHT TO CHANGE PRODUCT AND SYSTEM SPECIFICATIONS WITHOUT NOTICE.

NOTICE TO CLIENT:
ROMAN FOUNTAINS SHALL NOT BE RESPONSIBLE FOR WATER QUALITY AND WATER CHEMISTRY ISSUES WHICH MAY RESULT IN HARDWATER SCALING, HIGH IRON CONTENT, STAINING OR ANY OTHER CHEMICAL ACTION OR REACTION TO EQUIPMENT OR STRUCTURES THAT MAY OCCUR AS A RESULT OF WATER CHEMISTRY ISSUES.

CLIENT SHALL BE SOLELY RESPONSIBLE FOR PERFORMING ANY AND ALL TESTING DEEMED NECESSARY TO ASCERTAIN FOUNTAIN WATER QUALITY AND CHEMISTRY ISSUES PRIOR TO CONSTRUCTING THE FOUNTAIN, AND FOR SELECTING AND PROVIDING ALL WATER TREATMENT EQUIPMENT AND/OR CHEMICAL ADDITIVES WHICH MAY BE REQUIRED TO RENDER THE WATER SUITABLE FOR THE FOUNTAIN APPLICATION, INCLUDING HEALTH, WATER QUALITY AND SANITATION ISSUES.

WATER CHEMISTRY FOR ALL CHEMICALLY TREATED WATER FEATURES SHALL BE MAINTAINED AS FOLLOWS

Free Chlorine: 1.0-3.0 ppm
Combined Chlorine: None
Bromine: 2.0-4.0 (If used in lieu of Chlorine)
pH: 7.4-7.6
Total Alkalinity: 80-100 ppm
TDS: 1000-2000 ppm
Calcium Hardness: 200-400 ppm
Cyanuric Acid: 20 ppm MAX (0 ppm in Spas and Indoor Features)

ROMAN FOUNTAINS SHALL NOT BE RESPONSIBLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, DETERIORATION OR ANY OTHER ADVERSE EFFECTS TO SURROUNDING LANDSCAPE OR HARDSCAPE, FOUNTAIN STRUCTURE, PIPING OR ANY EQUIPMENT AS A RESULT OF WATER QUALITY AND CHEMISTRY ISSUES AND ASSUMES THAT PROPER WATER ANALYSIS AND APPROPRIATE TREATMENT HAS BEEN IMPLEMENTED PRIOR TO OBTAINING AND INSTALLING FOUNTAIN EQUIPMENT.

PIPING NOTES (RESPONSIBILITY OF INSTALLER) AS APPLICABLE TO THE SYSTEM

1. It is the installing contractor's responsibility to verify all field dimensions critical to fountain equipment installation and performance and report any discrepancies, in writing, to Roman Fountains and the Architect/Engineer.
2. It is the responsibility of the installing contractor to check and comply with all plumbing and building codes prior to installation of equipment, Local codes take precedence over general notes where discrepancies or conflicts exist.
3. All piping penetrations through any concrete wall or floor must be made with red brass, copper or Sch. 80 PVC pipe as specified for the installation, and must be flashed or fitted with waterstop flanges to prevent leakage.
4. Interconnecting piping between the pool and pump room must be PVC, copper or brass as suitable for the working pressure of the system specification requirements and local codes.
5. All pipe connections between dissimilar metals must be made with dielectric fittings, and dielectric thread sealing compound to prevent galvanic degradation.
6. Suction center line of pump must be located at or below lower pool floor elevation if flooded–end–suction type, and no more than 4 ft. above pool floor elevation if self–priming type. All reducing fittings must be concentric type on discharge line and eccentric type on suction line.
7. Suction line must be installed as a straight run into the pump suction connection of a least eight pipe diameters with no loops, high points or traps.
8. Use long radius elbows on all directional changes on suction and discharge lines where indicated on installation drawings. In some instances, piping diagrams are exaggerated for purposes of clarity. Make all suction and discharge pipe runs using the most direct routes possible and using the minimum number of fittings possible. Slope all lines down to pump, in all cases, with no loops, traps, or high points.
9. On suction lines use only butterfly, full–port or gate type valves. Never regulate or adjust flow from suction side of pump. Use suction valves for equipment isolation purposes only.
10. On discharge lines use only butterfly, globe, ball, plug or other low loss infinitely adjustable valves, for isolation and flow regulation (by installer unless otherwise specified).
11. An in–line basket strainer is recommended on the suction side of pumps, with basket perforations properly sized to protect the pump impeller, and fountain nozzle/jet orifices (by installer unless otherwise specified).
12. Provide adequate overflow drain and fill line capacity for the fountain system.
13. The piping system shall be water pressure tested for 4 hours prior to backfilling and shall then be buried and/or supported as required to protect the integrity of mechanical system. (Refer to PVC Installation Notes.)
14. Installer shall provide adequate access, lighting, drainage and ventilation in pump room to prevent flooding, condensation or overheating of equipment, and comply with all OSHA confined space regulations and requirements, before, during and after system installation.
15. Any pressurized city water lines supplying the fountain system shall be of Type K copper and shall be protected by an approved backflow prevention device and pressure reducing valve (by installer) set at 50 PSI maximum pressure and minimum of 30 PSI.
16. 'P' traps and vents shall be installed on any drain line connected to a sanitary sewer system, where and when required by plumbing code, regardless of whether shown on installation drawings (by installer).
17. When installing suction piping for self priming pump systems, the piping shall be installed in such a manner as to maintain a flooded suction pipe condition at all times until piping connects to the pump.
18. All piping is assumed to be buried below ground in all cases, and not installed on or above grade where an air trap, loop or high point could be created.

NOTE: Any & all costs associated in complying with above are responsibility of installer.

NOTICE TO CLIENT: ELECTRONIC FILE TRANSFER POLICY

As a courtesy, drawing files and other documents may be furnished to client, at clients request, in electronic format. Electronic file drawings and documents shall be used for general reference purposes only. The transfer and receipt of an electronic file from Roman Fountains does not constitute delivery of our work product. Only a printed/plotted hard copy issued from our office, as prepared by our staff for the specific project, and identified as such constitutes our work product, and shall be the operative document for all design, product detailing, product specification, layout and installation information and warranty and performance guaranty obligations.

Roman Fountains Corporation shall not be liable or responsible in any manner whatsoever for any modifications, revisions, alterations or other changes to electronic files not specifically originating from our company and our employees, or for any products, components, systems, equipment or services obtained through use of electronic files for which a printed hard copy has not been delivered, reviewed, formally approved under clients signature and on file at Roman Fountains Corporation, Albuquerque, New Mexico, prior to delivering any products, systems or services.

The recipient of any electronic file or document issued by Roman Fountains Corporation unconditionally agrees to and accepts this policy and further agrees to indemnify and hold harmless Roman Fountains Corporation for any and all irregularities, incomplete or illegible transfers, transcription defects, incidental or consequential damages or costs incurred in the use, misuse, revision, alteration or other manipulation of electronic files issued from Roman Fountains Corporation.

DEFINITIONS OF TERMINOLOGY APPEARING IN DOCUMENTS

The term "furnish" shall mean "to obtain and deliver to the jobsite". The term "install" shall mean "to fix in position and connect for use". The term "provide" shall mean "to furnish and install".

Where language indicates that one trade is to "install" and another trade is to "connect", the term "install" shall mean "to fix in position", and "connect" shall mean "to make plumbing, mechanical and electrical connections" as indicated on the construction plans.

Roman Fountains Corporation shall by definition "furnish" equipment, components, materials and documents to the job site.

DANGER

FATAL ELECTRICAL SHOCK CAN OCCUR IF FOUNTAIN ELECTRICAL EQUIPMENT IS NOT INSTALLED PROPERLY. THIS EQUIPMENT SHOULD ONLY BE INSTALLED BY QUALIFIED ELECTRICIANS WITH PROPER GROUNDING AND GROUND FAULT INTERRUPTION CIRCUIT BREAKERS IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE, SECTION 680, AND ALL OTHER APPLICABLE SECTIONS OF THE CODE.

DANGER

FATAL SUCTION ENTRAPMENT CAN OCCUR IF FOUNTAIN MECHANICAL EQUIPMENT & PIPING IS NOT INSTALLED CORRECTLY AS SHOWN. ANTI–VORTEX PLATES MUST BE SECURELY FASTENED TO SUMPS AND/OR POOL FLOOR USING SUITABLE VANDAL RESISTANT SAFETY FASTENERS AND ANCHORS AT ALL TIMES DURING OPERATION OF FOUNTAIN SYSTEM.

NOTE: CONTRACTOR/INSTALLER IS RESPONSIBLE FOR CONFIRMING AND CORRELATING ALL DIMENSIONS AT JOBSITE. ROMAN FOUNTAINS IS NOT RESPONSIBLE FOR CONSTRUCTION/INSTALLATION MEANS, METHODS, TECHNIQUES, SEQUENCES, STEPS OR PROCEDURES, OR FOR ANY SAFETY REQUIREMENTS, CODES, PRECAUTIONS, RULES, REGULATIONS OR PROGRAMS PERTAINING TO THE CONSTRUCTION PROJECT, INCLUDING BUT NOT LIMITED TO OSHA CONFINED SPACE REQUIREMENTS FOR PUMP ROOMS, VAULTS OR PITS.

SYSTEM PERFORMANCE (RESPONSIBILITY OF INSTALLER) AS APPLICABLE TO THE SYSTEM

TESTING

1. Perform tests in the presence of the owner, architect, or authorized representative for designated duration with no pressure loss or noticeable leaks.
2. Do not include equipment in tests which could be damaged by high pressure.
3. Flush out all pipes with clean water prior to performing leak tests.
4. Perform tests as follows:

System	Test Pressure	Medium
Water	75 psi	Water
Drainage	10 ft.	Water

5. Automatic make–up water systems shall be thoroughly tested and operative at the time of final observation. Do not exceed 50 PSI line pressure.
6. After the system has operated for one week, contractor and owner's representative shall inspect water make–up rates and agree that water usage is appropriate for system of this type, are within local ordinances or codes, and that such rates are not indicative of excessive leakage from system. A water meter shall be placed on the fill line for this purpose, if necessary to document precise water usage.

PVC INSTALLATION NOTES

1. Unless architects or fountain designers specifications, or building codes indicate otherwise, the suggested minimum piping and fitting standard recommended for this installation is Type 1 Schedule 80 PVC to ASTM #D–1784, D–2464 and D–3467. Schedule 40 PVC pipe may be substituted if it is acceptable to mechanical/civil engineer and does not conflict with any specifications or building codes. Installer is responsible for any/all interconnecting piping, fittings and connections between equipment.
2. Use only clear PVC cleaner meeting NSF, UPC, and ASTM standards for cleaning and repairing PVC pipe and fitting surfaces for solvent cementing (IPS Corporation "Weld–On" Type C–65 or equivalent). Follow all directions and instructions appearing on product label.
3. Use only purple PVC primer meeting NSF, UPC, and ASTM #F–656 standards for softening and preparing pipe and fitting surfaces for solvent cementing (IPS Corporation "Weld–On" Type P–70 or equivalent). Follow all directions and instructions appearing on product label.
4. Use only gray, heavy bodied, medium setting PVC cement meeting NSF, UPC and ASTM #D–2564, standards for solvent cementing PVC plastic pipe and fittings (IPS Corporation "Weld–On" Type 711 or equivalent). Follow all directions and instructions on product label.
5. Pressure test all water piping prior to commencing backfill operations. (See #4 above) Hydrostatic (water) testing shall be the only approved method. DO NOT PRESSURE TEST WITH COMPRESSED AIR as severe pipe damage and bodily injury can occur. Do not exceed the rated operational pressure of the piping and/or fittings carrying the lowest pressure rating. Locate and repair any leaks and retest (per #4 above) prior to completion of backfill operations.
6. Concrete "thrust" blocking is recommended at all directional changes (tee's, elbows, etc.), reducer fittings and line terminations (bushings, end caps, plugs, etc.).
7. Perform adequate trenching and backfill operations when installing PVC piping below grade. Trench width should be minimum of "pipe O.D. plus 12 inches" and deep enough to allow piping to be buried minimum 12" below the maximum expected frost penetration line to avoid freeze damage. Lay piping in horizontal, parallel and perpendicular manner and allow for expansion and contraction. Avoid vertical stacking of pipes. Space minimum of 3" apart on all parallel runs.
8. Use only clean, free–flowing, non–expansive backfill material (naturally rounded 1/4" pea gravel or sand) and backfill in 8"–12" lifts with adequate and complete compaction between lifts to 90% of maximum density per ASTM 1557–70. Compaction to excessive loads shall not be permitted. A second pressure test on the piping system must be made at this time to insure that piping has not been damaged during backfill operations (see #4 above).

NOTE: Any & all costs associated in complying with above are responsibility of installer.

LIABILITY DISCLAIMER NOTICE

Roman Fountains shall not be responsible or liable for any civil or structural design drawings, details, notations or any other aspects of the project regarding fountain layout, structure or construction/building practices, including, but not limited to, concrete design, specifications and slab pour methods, concrete reinforcements such as rebar type, size and locations, or concrete structural waterproofing specifications, materials and methods, etc.

Any structure depicted or appearing on our plans shall be shown solely for dimensional reference and general structural orientation in order to adequately identify, coordinate, orient, locate and install our equipment package, and shall not be relied on for any other purposes.

Client is advised to enlist the services of a licensed professional engineer familiar and experienced with such work when designing/constructing any fountain pool or pump room structure, who shall accept complete responsibility and liability for all structural and civil engineering details pertaining to the project.

REQUEST TO PHOTOGRAPH, RECORD AND PUBLISH

ROMAN FOUNTAINS RESERVES THE RIGHT TO TAKE (OR CAUSE TO HAVE TAKEN) PHOTO AND/OR VIDEO IMAGES OF ITS FOUNTAIN SYSTEM EQUIPMENT AND/OR FOUNTAIN OPERATING EFFECTS (PRINT FILM, DIGITAL IMAGES, VIDEOTAPE OR OTHERWISE) AND TO PUBLISH SAID IMAGES IN ANY OF ITS SALES AND MARKETING BROCHURES, ADVERTISEMENTS, PRESENTATION AND SEMINAR HAND–OUTS, NEWSLETTERS, TRADESHOW EXHIBITS, WEBSITES, OR USE FOR LEGAL DOCUMENTATION PURPOSES. THIS RIGHT INCLUDES PRE–INSTALLATION IMAGES, INSTALLATION SEQUENCE IMAGES, START–UP AND COMMISSIONING IMAGES AND POST INSTALLATION IMAGES. ROMAN FOUNTAINS MAY, BUT SHALL NOT BE OBLIGATED TO IDENTIFY THE PROJECT, OR ANY OF THE PARTICIPANTS IN THE PROJECT, INCLUDING BUT NOT LIMITED TO OWNERS, PARTNERS, CORPORATIONS, ARCHITECTS, ENGINEERS, LANDSCAPE ARCHITECTS, CONSULTANTS, SPECIFIERS, DEVELOPERS, ETC. ALL IMAGES AND RECORDINGS SHALL REMAIN THE PROPERTY OF ROMAN FOUNTAINS CORPORATION, ITS SUCCESSORS OR ASSIGNS.

08/07/03

WATERPROOFING NOTICE OF RESPONSIBILITY

ROMAN FOUNTAINS RECOMMENDS ALL FOUNTAINS BE PROPERLY WATERPROOFED AND ALL FOUNTAIN COMPONENTS BE PROPERLY SEALED WITH A SUITABLE WATERPROOF CAULKING COMPOUND TO INSURE A WATERTIGHT FOUNTAIN INSTALLATION.

ANY WATERPROOFING DETAILS OR SPECIFICATIONS THAT MAY APPEAR ON ROMAN FOUNTAINS PLANS OR EQUIPMENT DETAILS ARE FOR GENERAL REFERENCE ONLY AND SHALL NOT BE INTERPRETED OR RELIED UPON AS A FORMAL SPECIFICATION OR RECOMMENDATION. CONVERSELY, THE ABSENCE OF WATERPROOFING DETAILS OR SPECIFICATION ON ROMAN FOUNTAINS PLANS, DETAILS OR PRODUCT SHEETS DOES NOT IMPLY THAT WATERPROOFING IS NOT A PROJECT REQUIREMENT.

IT IS THE RESPONSIBILITY OF THE PROJECT ARCHITECT/ENGINEER TO SPECIFY ANY AND ALL WATERPROOFING REQUIREMENTS, PRODUCTS, INSTALLATION/APPLICATION METHODS, PROCEDURES AND OTHER DETAILS AS MAY BE NECESSARY AND REQUIRED FOR THE FOUNTAIN STRUCTURE AND FOUNTAIN COMPONENTS.

IT IS THE RESPONSIBILITY OF THE WATERPROOFING CONTRACTOR TO REVIEW THE PROJECT SPECIFICATIONS FOR WATERPROOFING REQUIREMENTS FOR THE FOUNTAIN AND RELATED COMPONENTS AND PROVIDE THE SPECIFIED WATERPROOFING PRODUCTS AND SYSTEMS TO INSURE WATERPROOF INTEGRITY OF THE FOUNTAIN SYSTEM.

IT IS THE RESPONSIBILITY OF THE FOUNTAIN EQUIPMENT INSTALLER TO COORDINATE ALL WATERPROOFING MATERIALS, SYSTEMS, APPLICATIONS, PROCEDURES AND METHODS WITH THE WATERPROOFING CONTRACTOR, IN STRICT ACCORDANCE WITH THE PROJECT SPECIFICATIONS.

ROMAN FOUNTAINS ASSUMES NO RESPONSIBILITY OR LIABILITY WHATSOEVER FOR ANY WATERPROOFING ISSUES RELATED TO ITS DESIGN PACKAGE, SCOPE OF WORK OR EQUIPMENT SUPPLY UNDER ANY CIRCUMSTANCES. IF THE FOUNTAINS CONTRACTOR/INSTALLER/WATERPROOFER HAS QUESTIONS PERTAINING TO WATERPROOFING, THE SHALL BE DIRECTED TO THE PROJECT ARCHITECT/ENGINEER WHO IS SOLELY RESPONSIBLE FOR SUCH MATTERS.

INTELLECTUAL PROPERTY AND COPYRIGHT NOTICE
All Rights Reserved

THIS IS AN ORIGINAL DESIGN CREATED BY ROMAN FOUNTAIN CORPORATION.

THE CONCEPTS, IDEAS, PLANS, NOTES AND DETAILS ARE THE INTELLECTUAL PROPERTY OF ROMAN FOUNTAINS CORPORATION.

NONE OF THE CONCEPTS, IDEAS, PLANS NOTES OR DETAILS SHALL BE USED OR DISCLOSED BY ANY INDIVIDUAL, ORGANIZATION OR CORPORATION FOR ANY PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT AND PERMISSION OF ROMAN FOUNTAINS CORPORATION, ALBUQUERQUE, NEW MEXICO.

NOTE: DRAWINGS, NOTES, DETAILS, EQUIPMENT LISTS, SPECIFICATIONS, INSTALLER REQUIREMENTS AND CALL–OUTS ARE "COMPLIMENTARY". WHAT IS INDICATED/REFERRED TO ON ANY DRAWING IN THE SET SHALL BE BINDING AS IF INDICATED/REFERRED TO ON ALL DRAWINGS IN THE SET, AS APPLICABLE.

NOTICE OF STATED AND INTENDED USE FOR DECORATIVE ARCHITECTURAL VIEWING PURPOSES ONLY UNLESS SPECIFICALLY REPRESENTED, IDENTIFIED, OR OTHERWISE SPECIFIED AND DESIGNED AS A "WATERPLAY" FOUNTAIN

It is hereby acknowledged, agreed and understood by specifier / purchaser / owner/ operator of this equipment and/or system that its stated and intended use is for decorative viewing purposes only, and not for public bathing, public entry or public recreational use. As such Roman Fountains Corporation assumes no responsibility or liability whatsoever for personal injury, sickness, illness, disease, or death which may occur as a result of the equipment/system being used, operated or otherwise maintained in a manner inconsistent with its stated and intended purpose. Specifier/Purchaser/Owner/Operator is solely responsible for notifying the public of the stated and intended use and operation of this decorative architectural fountain and for lawful enforcement thereof, including posting any and all signs, notices, warnings, instructions and barriers and providing personnel as necessary to enforce compliance with its intended use.

PURCHASER/OWNER INSTALLATION, MAINTENANCE & SERVICE RESPONSIBILITY

THIS FOUNTAIN SYSTEM IS DESIGNED, SPECIFIED, OFFERED AND SOLD UNDER THE ASSUMPTION AND UNDERSTANDING THAT THE PURCHASER/OWNER HAS REVIEWED, AND IS FAMILIAR WITH, THE FOUNTAIN PROJECT AND UNDERSTANDS THE COMPLEXITIES OF THE EQUIPMENT AND HAS, OR WILL CONTRACT WITH, COMPETENT AND EXPERIENCED INSTALLERS, AND THE PURCHASER/OWNER HAS, OR WILL CONTRACT WITH, COMPETENT AND EXPERIENCED OPERATION, MAINTENANCE AND SERVICE PERSONNEL FAMILIAR WITH SUCH EQUIPMENT TO PROPERLY CARE FOR THE EQUIPMENT. ROMAN FOUNTAINS SHALL IN NO WAY BE HELD RESPONSIBLE FOR DETERMINING WHETHER OR NOT PURCHASER/END USER HAS ADEQUATE KNOWLEDGE, RESOURCES, ABILITIES OR EXPERIENCED TRADES AND PERSONNEL TO INSTALL, MAINTAIN AND OPERATE THIS FOUNTAIN SYSTEM AND ITS ASSOCIATED EQUIPMENT PRIOR TO OFFER/PURCHASE AND AFTER SALE & INSTALLATION.

NOTICE TO INSTALLER

ALL FOUNTAIN SYSTEM EQUIPMENT & COMPONENTS FURNISHED BY ROMAN FOUNTAINS IS DESIGNED AND MANUFACTURED FOR USE IN FRESH WATER APPLICATIONS ONLY. DO NOT INSTALL OR OPERATE ANY EQUIPMENT IN SALT, BRINE OR BRACKISH WATER OR WARRANTY IS VOID.

RESPONSIBILITY FOR SPECIAL LABELING OR CERTIFICATION REQUIREMENTS

ALL COMPONENT ITEMS USED IN THE PRODUCTION OF OUR PRODUCTS ARE U.L. LISTED WHENEVER SUCH LABELING IS AVAILABLE FROM THE SOURCE EQUIPMENT OR MATERIAL.

SHOULD ANY PRODUCT REQUIRE A 'THIRD PARTY' LABEL OR CERTIFICATION AS AN ASSEMBLY (E.G. N.E.C., U.L. OR E.T.L. LISTING) SUCH REQUIREMENTS SHALL BE DETERMINED, CONTRACTED FOR, AND PAID BY OTHERS.

ROMAN FOUNTAINS SHALL NOT BE RESPONSIBLE OR LIABLE IN ANY MANNER WHATSOEVER FOR SPECIAL LABELING OR CERTIFICATION REQUIREMENTS, INCLUDING THIRD PARTY PRODUCT TESTING UNLESS SPECIFICALLY INCLUDED IN IT PROPOSALS, QUOTATIONS, DRAWING DESCRIPTIONS AND DETAILS, REGARDLESS OF PROJECT SPECIFICATION OR CODE REQUIREMENTS.

ELECTRONIC MEDIA USER ACCEPTANCE AGREEMENT

No warranties express or implied are made with respect to the electronic form of these drawings, including any implied warranties of merchantability or fitness for a particular purpose. It is understood the USER makes use of the electronic form of these drawings at USER's sole risk and that the drawings in electronic form are provided "as is" and "as received" without warranties of any kind. Roman Fountains shall have no obligation to or through the USER for use of the electronic form of these drawings, including any obligation or liability for the accuracy of the information furnished through the electronic form. In addition to and not withstanding the foregoing, in no event shall Roman Fountains be liable for any incidental, consequential or special damages or for any loss of profit sustained by user in connection with or arising out of the use of the electronic form of these drawings. January 1, 2003

OWNERS MAINTENANCE RESPONSIBILITY

For purposes of issuing this proposal and/or drawing package, Roman Fountains Corporation assumes client will commit the necessary manpower, equipment & financial resources necessary to properly, adequately & routinely maintain the fountain system in accordance with the Operation & Maintenance Manuals furnished by equipment supplier/manufacturer. Fountain system maintenance is the sole responsibility of the owner, not the fountain designer or system/equipment manufacturer/supplier.

NOTICE TO DRAWING RECIPIENT

Due diligence, good faith and care has been exercised in the preparation and production of these drawings, with reasonable and customary precautions, document quality control and redundant checking procedures having been taken to insure production of an accurate, informative, high quality drawing package.

However, in spite of these precautions and procedures, the possibility of errors and/or omissions always exists, as can be reasonably expected in the preparation of any complex technical drawing or document, regardless of circumstances. Therefore, the recipient is cautioned, and otherwise assumed to have carefully, completely and thoroughly examined all such drawings, including all details and notations incorporated herein, and shall immediately notify Roman Fountains Corporation in the event any errors or omissions are discovered or otherwise presumed.

All drawings are produced, prepared and submitted under the express condition and understanding that our contractual liability and responsibility is strictly limited to the correction and/or incorporation of information that has been determined or otherwise presumed to have been omitted, in error or otherwise excluded.

No liability or responsibility is assumed or otherwise accepted whatsoever by the company or its employees for any incidental or consequential damages or losses that occur as a result of possible, presumed or actual errors or omissions, whether we are notified or not.

NATURAL DISCOLORATION OF METALS

Discoloration of brass or copper fittings and components in fountains is a natural occurrence and is not considered by the company to be a product defect or warranty item. Water chemistry may turn the metal green or brown in appearance. Removal of the discoloration can be accomplished using a soft wire wheel brush and brass or copper cleaner if so desired. To minimize this natural occurrence, the material can be treated by owner with a clear epoxy spray coating or sealant.('Plasti–Kote' Clear Lacquer by Valspar or similar) prior to being installed into the fountain basin.

Roman Fountains is not responsible for any humidity, mold or mildew that may occur as a result of operating the fountain. Requirements for air dryers, de–humidifiers, and HVAC issues are the sole responsibility of others.

NOTICE REGARDING LINERS AND MEMBRANES

Equipment manufactured, supplied and otherwise furnished by Roman Fountains is primarily designed for embedment or casting directly into concrete or gunite structural material. It is not designed for natural or synthetic liner or membrane installation including fiberglass or metal liners, shells, covers or cladding. Any such requirement for liner or membrane installation or adaptation is the responsibility of the specifier, purchaser and installer, including but not limited to flanges, clamping devices, gaskets, fastening devices, coatings, adhesives or bonding agents.

CODE COMPLIANCE ISSUES ARE "BY OTHERS"

Sole responsibility and cost for ascertaining whether the fountain system design incorporated in this drawing package meets any/all building, civil, structural, mechanical, electrical or health/sanitation codes is "by others".

QUALIFICATIONS FOR BIDDERS/INSTALLERS

It is presumed that any/all entities bidding on this project are fully qualified and experienced to perform such work. It is not Roman Fountains responsibility to qualify bidders, or furnish installation instructions beyond what is furnished in these drawings. Architect/Owner is responsible for all contractor/installer qualifications and determinations as to suitability of bidders to perform the required work.

RESPONSIBILITY FOR OBTAINING PERMISSION AND PAYING ROYALTIES TO USE COPYRIGHTED MATERIALS IN MUSICAL FOUNTAIN SYSTEMS IS 'BY OTHERS'

Responsibility for obtaining any and all legal music licensing agreements, copyright permissions, royalty payments, playback or performance rights, etc. for the selection and use of any musical or other sound track recordings for use in musical fountain systems as may be required by BMI, ACSCAP, SESAC, by the artist or composer directly, or by any other permission or license granting body or organization is the sole responsibility of customer/client/owner of the fountain system. Roman Fountains does not quote, buy or sell music titles or licenses and bears no responsibility whatsoever, legally or finacially, for their use by owner. Roman Fountains accepts all music selections sent to us for programming into the musical fountain system with the sole understanding they are legally acquired, purchased, obtained and/or licensed by owner prior to sending them to Roman Fountains for incorporation into the fountain system. Roman Fountains accepts such material as "owners property".

LIMITED WARRANTY

THIS WARRANTY IS NOT IN FORCE UNTIL PAYMENT IS RECEIVED IN FULL FOR ALL MATERIALS ORDERED PER THE PURCHASE ORDER, INCLUDING CHANGE ORDERS AND/OR ADDENDUMS, AND FINAL APPROVED SHOP DRAWINGS.

Roman Fountains Corporation warrants its complete systems orders (systems designed and specified by Roman Fountains) to be free from defects in materials and workmanship, when properly installed and maintained, under normal use and service, for a period of one year from date of installation or eighteen (18) months from date of shipment, whichever occurs first. Component only (non–system) orders are warranted for a period of one year from date of sale. Equipment, components and items used by Roman Fountains, but manufactured by others, shall be warranted to the extent of the original manufacturer's warranty.

If any equipment furnished by Roman Fountains is found defective under this warranty, the Buyer must notify Roman Fountains, in writing, within the warranty period. After receipt of shipping advice and Return Materials authorization (RMA) number, the Buyer may return the product directly to Roman Fountains Corporation, Customer Service Dept., 8600 Paseo Alameda Dr. N.E., Albuquerque, New Mexico, U.S.A., 87113.

All equipment returned to Roman Fountains must be carefully and properly packed and freight and insurance charges must be prepaid. Replacements or repaired equipment will be returned to the sender freight prepaid, F.O.B. Factory. This Warranty does not cover, and Roman Fountains is not responsible for, the removal or replacement of equipment on the job site and will not honor charges for such work. This Warranty does not cover, and Roman Fountains is not responsible for, any loss of use, time, incidental, or consequential damages should any of the equipment fail during the warranty period, but agrees only to put into proper operating condition or at Roman Fountains' option replace such equipment, free of all charges except transportation. The correction of any defects by repairs or, at Roman Fountains' option, replacement by Roman Fountains shall constitute fulfillment of all obligations and liability of Roman Fountains to the buyer under this Warranty and the contract of sale. Warranty on replaced or repaired equipment shall be 90 days from date of return shipment or expiration of the original warranty period, whichever comes last.

Roman Fountains is not responsible for damage to its equipment through improper installation, maintenance, use, or attempts to operate equipment above its rated capacity or voltage, intentionally or otherwise, or for unauthorized repairs, or damage due to flooding due to mechanical, electrical, or structural failure.

Failure to notify Roman Fountains of unsatisfactory operation or any improper installation, unauthorized installation, maintenance, use, repairs, or adjustments shall terminate this Warranty and shall relieve Roman Fountains from any further responsibility or obligation.

Buyer's exclusive and sole remedy under this Warranty is limited to repair or replacement of defective equipment returned "freight pre–paid" to Roman Fountains. Roman Fountains shall not be liable for special, consequential, incidental or other damages in any claim, action, suit or proceeding arising under this Warranty or the contract of sale, nor shall there be any liability thereunder for claims for labor, loss of profits or goodwill, repairs or other expenses incidental to replacement. This Warranty does not cover lenses, lamps, ballasts, batteries, or other equipment that may be supplied or warranted directly to the user by their manufacturers.

EXCEPT AS SPECIFICALLY PROVIDED ABOVE, ROMAN FOUNTAINS MAKES NO OTHER WARRANTY OF ANY KIND WHATSOEVER, EXPRESS OR IMPLIED, AND NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE MADE, AND THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE FACE OF THIS DOCUMENT. NO REPRESENTATIVE OR EMPLOYEE OF ROMAN FOUNTAINS IS AUTHORIZED TO EXTEND, EXPAND, OR AMEND THIS WARRANTY IN ANY MANNER WHATSOEVER.

NOTICE

All shipments, unless otherwise noted, are sold F.O.B. factory, Albuquerque, New Mexico, U.S.A., freight collect.

The Buyer is advised to immediately inspect for shipping damage, apparent and /or hidden. If detected, notify the transportation company immediately and file your claim. The freight company is responsible for paying claims.

Buyer agrees that installation of all equipment shall be performed in strict accordance with Article 680 of the latest version of the NEC and in accordance with all national, state and local codes, by a licensed and experienced contractor / electrician qualified to perform such work.

01–01–13
(SUPERSEDES ANY AND ALL PRIOR WARRANTIES.)

SCOPE OF RESPONSIBILITY AND PERFORMANCE GUARANTEE

Roman Fountains will guarantee the decorative fountain system to perform to the specified operating heights, spray patterns, and water volumes, and to create the designed lighting effects, provided the entire equipment package as listed on our final submittal documents is supplied by Roman Fountains, and the installation, operation and maintenance of the equipment is in strict accordance with Roman Fountains installation and operating instructions, submittals, shop drawings and installation blueprints.

Roman Fountains will provide consultation and design services as they pertain to the fountain equipment package supplied, including the fountain display system, filtration system, water treatment system, overflow and drain system, water makeup and low level protection system, pump and lighting control system, lighting fixture and electrical junction box system, pump selection and pump room layout, electrical conduit and conductor sizing as it pertains to our equipment package, and suction and discharge sump design, as applicable.

The consultation and design information will be detailed on schematic, installation and submittal blueprints showing correct orientation and installation of Roman Fountains equipment as coordinated with the contract drawings. Upon receipt and acceptance of a bona–fide written purchase order with all terms and conditions satisfied, final installation drawings will be furnished to the owner/architect/engineer/contractor, as required by Roman Fountains as an integral part of its fountain equipment package. Any drawings or documents marked "preliminary" shall not be used for installation purposes.

Roman Fountains will not install, or accept responsibility for (1) the actual installation of the system equipment, (2) the design of the power distribution system, or (3) any other portion of the project not specifically enumerated, such as pool structure, hardscape design and construction and equipment room structural design and construction, or health code requirements.

Equipment not included in this scope of work: interconnecting piping, misc. plumbing and electrical fittings, filter media, water treatment chemicals, conduit, wiring, electrical load centers, electrical transformers, pipe hangers, pump and strainer supports or housekeeping pads, companion flanges, gaskets, fasteners, reducers, increasers and other equipment required to complete the installation unless specifically enumerated and identified as being furnished by Roman Fountains. This scope further does not include provisions for specially designed or fabricated waterstop equipment or penetrating sleeves, clamping or flashing rings, special sumps or other similar items unless specifically included in Roman Fountains system equipment lists and/or shop/installation drawings.

Engineer stamped or sealed drawings are not included in this scope and it shall be the responsibility of the client to obtain and pay the cost of such engineering certifications if so required.

DRAWING SUBMITTAL
NOT FOR CONSTRUCTION
FOR CLIENT REVIEW.

DAVIS & FLOYD
SINCE 1954
3229 W. MONTAGUE AVENUE
CHARLESTON, SC 29418
(843) 554-8602
WWW.DAVISFLOYD.COM

NOT FOR CONSTRUCTION
This drawing copy may have been reproduced at a size different than the original drawing. No responsibility is assumed for the use of incorrect scale. Drawings are not to be scaled.

HUMID

South Carolina 811
Call 811 Before you Dig

Wood+Partners Inc.
Landscape Architects
Land Planners
1211 Miccosukee Road ■ Tallahassee, FL 32308
850.391.0360 ■ Fax 850.386.1010 ■ www.woodandpartners.com

GENERAL INSTALLATION NOTES

ROMAN FOUNTAINS

SHEET NUMBER
L20

Y:\2015-Jobs\Walterboro (Wood + Partners, Inc) Design A\Drawings\Walterboro(Wood+Partners)Design.dwg 2/11/2016 6:13:41 PM CHRIS

FED. RD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	COLLETON	0041932	02-14011	SC 63		

FOUNTAIN PERFORMANCE CRITERIA

The water feature for the City of Walterboro consists of a single level pool with a central 2" cascade nozzle operating at a 6'-0" spray height which is surrounded by a spray ring operating with a maximum 4'-0" spray height. The fountain is illuminated by a series of 16 freestanding lights.

The mechanical equipment for the fountain consists of a preassembled and factory tested RDP-2H pump vault located behind the fountain, which incudes a 7-1/2 Horse-Power display pump, all the necessary pump valves, 75 Sq. Ft. cartridge filter, wind compensation system with 7-1/2HP VFD, 4" strainer, automatic fill manifold, ventilation fan, copper-silver ionizer, chemical feeder, and a U.L. Listed fountain control panel in a NEMA 4 enclosure.

(All calculations shown below are approximate. Actual field conditions and final feature dimensions may differ.)

Fountain Information

Area of Pool:	245 Square Feet
Depth of Pool:	1'-4" (1.33 feet)
Volume of Pool:	327 Cubic Feet (2,443 Gallons)
Spray Ring Nozzle Display Requirements (each):	1.5 GPM @ 5 Feet of Head
Spray Ring Display Requirements:	234 GPM @ 15 Feet of Head
Cascade Nozzle Display Requirements:	50 @ 24 Feet of Head
Display Requirement:	264 GPM @ 44 Feet of Head
Filtration Requirement	5 GPM @ 50 Feet of Head (4 Hour Turn-Over)
Actual Filtration Rate:	30 GPM @ 50 Feet of Head (1 Hour 21 Minute Turn-Over)
Fountain Pump Delivers:	315 GPM @ 57 Feet of Head 400 GPM @ 50 Feet of Head
Shut-Down Gain:	None

CLIENT NOTE

PLEASE READ THIS CRITERIA CAREFULLY. IF THIS IS NOT YOUR UNDERSTANDING AND EXPECTATION OF THE AESTHETICS, OPERATION AND PERFORMANCE OF THIS FOUNTAIN FEATURE, PLEASE NOTIFY US IN WRITING IMMEDIATELY, OTHERWISE THIS DESCRIPTION WILL BE THE BASIS FOR THE DESIGN, MANUFACTURE AND SUPPLY OF THIS SYSTEM.

PANEL ID: Walterboro **LOCATION:** RDP-2H **MOUNT:** Vault-Lid

City of Walterboro **VOLTAGE:** 120/208 3-PH **AMPS:** 60 **TYPE:** Snap-On

LOAD DESCRIPTION:	BKR Size	CKT No.	VA/Phase A	VA/Phase B	VA/Phase C	Duty Factor		LOAD	
Control Circuit:	15	CB1	96			1.25	=	120	VA
Fountain Pump - 7.5 HP (208V/60/3):	50	MP1	3,067	3,067	3,067	1.25	=	11,500	VA
Fountain Lighting W LED 12VDC (18W x 16, 20W x 1)	15	CB2*	308			1.25	=	385	VA
Sump Pump - 1/3 HP (115V/60/1):	20	CB3*			1,200	1.00	=	1,200	VA
Pump Station Support (120V/60/1):	20	CB4		1,200		1.25	=	1,500	VA
Load (Continuous Duty):						1.25	=	0	VA
Load (Non-Continuous Duty):						1.00	=	0	VA
VA/Phase TOTAL:			**3,471**	**4,267**	**4,267**			**14,705**	VA

NOTE: * GFI Breaker 5mA

TOTAL LOAD:	14,705 VA	/	208 V	/	1.73	=	**40.9** AMPS
REQ'D. FEED:							**60** AMPS
FEEDER CONDUIT:							**1** inch

CITY OF WALTERBORO (02/12/16)
Equipment List – By Roman Fountains

Item No.	Qty.	Component Number	Description
01	1	CSR-196 (Special)	16'-4' Dia. Copper Spray Ring, Type K hard copper construction, One Hundred Fifty Six (156) 3/16" orifice machined brass jets (adjustable to 15 deg. off vertical in a 360 deg. cone), six (6) 2" inlets, flush plugs, adjustable support legs with leg couplings, & vinyl foot protection caps. Four ring sections.
02	1	RCN-200	Cascade Nozzle; one-piece machined cast bronze construction with 2" (F) N.P.T. connection.
*03	7	RWS-200-S	Slab Penetration Fitting, machined cast brass, one-piece consruction, with integral waterstop flange, brass bonding screw and 2" (F) N.P.T. connections.
*04	2	RAVS-1600	16" Sq. Anti-Vortex Plate and Sump Assembly, constructed of heavy duty FRP sump with integral waterstop flange and 4" (slip) side, and 3" bottom (slip) connections (the 3" internal connection shall be provided with a 3" threaded male plug), 3/16" thick brass anti-vortex plate with brass spacers and TORX type stainless steel vandal resistant safety fasteners.
*05	1	RFD-300	Machined Cast Bronze Floor-Drain Fitting, with integral waterstop flange, bonding screw, threaded closure plug with recessed head and 3" (F) N.P.T. outlet connection.
*06	1	RCOM-WND	Wall-Mounted Combination Overflow/Water Make-up/Low Water Cutoff Sensor, consists of a housing of molded fiberglass niche sensor/overflow housing with brass cover plate, debris screen; stainless steel fasteners, sensor compression fitting, 3/4" (F) N.P.T. conduit entry and 2" adjustable overflow. Unit features multi-level float-type sensor of brass and Buna-N construction with a 1-3/4" adjustability range and includes 100 ft. of pre-attached 4-conductor, color-coded sensor cable.
07	16	RFL-CG-FS-LED-W	Freestanding LED Submersible Light Fixture, E.T.L. Listed, 12VDC, fully adjustable LED submersible light fixture for floor mounting, high output white LED diodes, stainless steel housing and fasteners, tempered glass lens, silicone lens gasket, chromed brass cord entrance fitting and 20 feet of 18/3 AWG SJOW cable.
08	4	RJB-4-100-C	Submersible Junction Box, E.T.L. Listed, Conduit/Mount, cast bronze construction with neoprene gasket, brass fasteners, one (1) 1" (F) N.P.T. bottom power conduit connection, and four (4) 3/4" N.P.T. side connection with brass cord seal fitting (shipped loose, installed in field). Junction box has a minimum volume of 40.0 cubic inches and includes an internal grounding lug.
*09	4	RWS-100-L	Slab Penetration Fitting, constructed of a Schedule 40 red brass pipe x 10" long body to ASTM-B-16 brass waterstop/concrete key, continuously welded to pipe at the midpoint, brass bonding screw and 1" (M) N.P.T. connections at each end.
10	4	RPC-2114-D	Potting Compound, re-enterable electrical insulating and potting compound, designed for use in RJB-Series junction boxes (required by NEC 680). 21.2 oz. size.
11	1	RWC-A-DUL	Anemometer, molded 3-cup ultraviolet protected polycarbonate anemometer. Rotor shaft is supported by a beryllium copper shaft sliding in Teflon bearings. Control wire (18/3 shielded cable) is by installer.
*12	2	RPS-150-FA-WS	Front Access Surface Skimmer W/Waterstop, body of injection molded black cycolac with removable floating weir / basket assembly; diverter adjustment plate; bronze waterstop fitting, natural finish brass faceplate, stainless steel fasteners and 1-1/2" (F) N.P.T. connection.
*13	2	REF-150-WS	Adjustable 'Eyeball' Inlet Fitting, machined cast brass construction with 3/4" orifice brass eyeball, retaining ring, integral waterstop flange, bonding screw and 1-1/2" (F) N.P.T. connection.
14	1	RDP-2H-750 (Special)	Series 2H Direct Burial Pump Vault, consisting of a 4'-0" x 4'-6" x 4'-2" deep heavy duty FRP vault with white gel-coat interior and brown gel-coat exterior, furnished with fiberglass reinforced plastic lid with stainless steel piano hinge attachment, containing a RSPP-750, 7.5 HP self-priming display pump with integral suction strainer; **7.5 HP VARIABLE FREQUENCY DRIVE**; RCCF-075, 75 sq. ft. cartridge filter unit; **4" IN-LINE STRAINER**; 4" vent connections with 510 CFM vent fan @ 0.2" S.P., **RCUAG-15 'COPPER/SILVER' IONIZER;** RMS-100-N, 1" copper water make-up/fill manifold, in-line brominator, sump well with 1/3 HP automatic sump pump; **RWC-SMDUL WND COMPENSATION CONTROL PANEL**; RPCP/RLCP, U.L. 508 listed control panel in a NEMA 4 enclosure, containing; main disconnect switch; motor starter with adjustable motor protector, 2-channel programmable timer for pump and lights, H.O.A. switches, lighting contactor, G.F.C.I. breakers, and water level/low level cutoff control circuitry. Unit is pre-wired, pre-plumbed (schedule 80 PVC) and factory tested prior to shipment. Power requirement: 120/208 V., 3-phase, 4-wire plus ground.
15	2	RPVC-800	6" PVC Vent Cap, Schedule 40 PVC construction and 1/4" stainless steel fasteners, corrosion resistant. Standard brown color.
16	1	RWD-18-B	Wave Dampener, 18" dia., brass and copper construction, three (3) adjustable copper legs, stainless steel set screws. Leg anchor tabs furnished with clearance holes for 1/4" anchoring hardware (By Installer). Natural brushed finish.

***NOTE: CONCRETE EMBED ITEM, REQUIRED FOR POUR.**

SYSTEM POWER REQUIREMENT:
120/208V., THREE PHASE, 4-WIRE FEEDER + GND. @ 60 AMPS
CONTACT FACTORY IMMEDIATELY IF NOT AVAILABLE.
(NOTE: SEE SHEET WF1-1 FOR POWER DIAGRAM)

NOTE:
POWER SHALL BE VERIFIED & CONFIRMED BY CONTRACTOR WITH APPROVED DRAWINGS. IF THERE ARE NO CHANGES, THE POWER REQUIREMENT LISTED ABOVE WILL APPLY.

DRAWING SUBMITTAL
NOT FOR CONSTRUCTION
FOR CLIENT REVIEW.

PREPARED FOR:
CITY OF WALTERBORO SOUTH CAROLINA
CITY OF WALTERBORO
242 HAMPTON STREET
WALTERBORO, SOUTH CAROLINA
29488

95% PLANS
I-95 BUSINESS LOOP
PHASES 1B
Walterboro, South Carolina

NOT FOR CONSTRUCTION

DGN: MCT
R/W: CMB
CHK: MB

#	REVISION	DATE	BY

DAVIS & FLOYD
SINCE 1954
WWW.DAVISFLOYD.COM
3209 W. MONTAGUE AVENUE
CHARLESTON, SC 29418
(843) 554-8602

NOT FOR CONSTRUCTION
This drawing copy may have been reproduced at a size different than the original drawing. No responsibility is assumed for the use of incorrect scale. Drawings are not to be scaled.

South Carolina 811 Call 811 Before you Dig

Wood+Partners Inc. WPi
Landscape Architects
Land Planners
1211 Miccosukee Road ■ Tallahassee, FL 32308
850.391.0380 ■ Fax 850.386.1010 ■ www.woodandpartners.com

FOUNTAIN EQUIPMENT LIST & PERFORMANCE CRITERIA

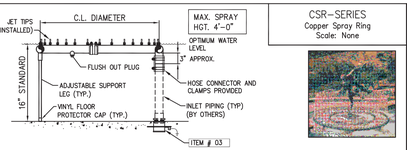
ROMAN FOUNTAINS

SHEET NUMBER
L21

Y:\2015-Jobs\Walterboro (Wood + Partners, Inc) Design A\Drawings\Walterboro(Wood+Partners)Design.dwg 2/11/2016 6:13:41 PM CHRIS

FED. RD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	COLLETON	0041932	02-14011	SC 63		

CSR-SERIES
Copper Spray Ring
Scale: None



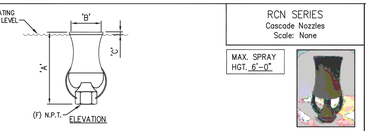
TECHNICAL AND HYDRAULIC DATA								
MODEL NO.	RING C/L DIA. (*)	APPROX. NUMBER OF JETS	APPROX. SPACING	JET ORIFICE DIA. (*)	PIPE DIA.	NUMBER SIZE OF INLETS	MAX. SPRAY HEIGHT HEAD	6'
CSR-60	60"	62	3" O.C.	0.125	1-1/2"	2 (1-1/2")	GPM	45
CSR-84	84"	88	3" O.C.	0.125	1-1/2"	2 (1-1/2")	GPM	52
CSR-96	96"	100	3" O.C.	0.125	2"	2 (2")	GPM	59
CSR-120	120"	96	4" O.C.	0.125	2"	4 (2")	GPM	68
CSR-196	196"	156	4" O.C.	0.188	2"	6 (2")	GPM	234

NOTE: Fine screening at pump to minimize nozzle clogging is recommended.
NOTE: Ring diameters 8' and larger ship in sections for on-site assembly.

SPECIFICATION DATA: Copper Spray Ring; type K hard copper construction, machined brass 3/16" orifice jets, adjustable to 15° off vertical in a 360° cone, hose & clamp inlets, flush plugs, adjustable copper support legs with leg couplings and vinyl floor protector caps, factory set for a 16" water depth.

TYP. (1) | ITEM # 01

RCN SERIES
Cascade Nozzles
Scale: None



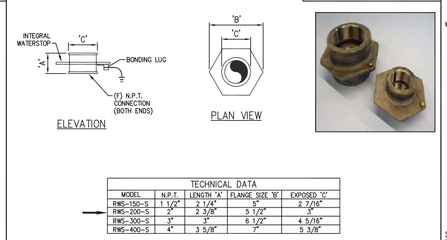
TECHNICAL AND HYDRAULIC DATA																					
DIMENSIONS					SPRAY HEIGHT																
MODEL No.	(F)N.P.T.	A	B	C		2'	3'	4'	5'	6'	8'	10'	12'	15'	20'	25'	30'				
RCN-125	1-1/4"	8"	3-1/2"	1/2"	GPM	16	21	23	26	29	34	38	40								
					HEAD	12	18	23	28	37	50	58	65								
RCN-150	1-1/2"	9"	3-3/4"	1/2"	GPM	23	29	33	36	42	49	53	58								
					HEAD	11	14	16	18	23	32	37	46	50	62						
RCN-200	2"	10-3/4"	4-1/2"	1/2"	GPM				42	47	52	61	67	71	75	92					
					HEAD				14	19	24	33	40	43	49	71					
RCN-300	3"	14-1/4"	6-1/2"	3/4"	GPM					88	90	93	112	118	144	166	187	205			
					HEAD					24	26	30	42	49	63	79	104	118			

NOTE: Fine screening at pump to minimize nozzle clogging is recommended.
NOTE: This is a water level dependent nozzle.
NOTE: Shaded area indicates optimum performance.

SPECIFICATION DATA: Cascade Nozzle; one-piece cast bronze construction, machined brass 3/16" orifice jets, adjustable to 15° off vertical in a 360° cone, hose & clamp inlets, flush plugs, adjustable copper support legs with leg couplings and vinyl floor protector caps, factory set for a 16" water depth.

TYP. (1) | ITEM # 02

RWS-S SERIES
Cast Bronze Fitting W/Integral Waterstop Flange
Scale: None

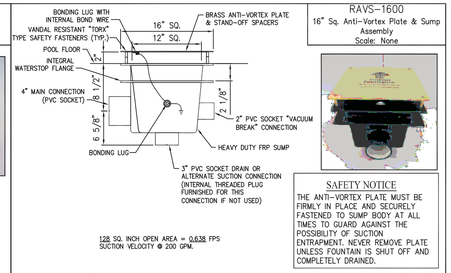


TECHNICAL DATA				
MODEL	N.P.T.	LENGTH 'A'	FLANGE SIZE 'B'	EXPOSED 'C'
RWS-150-S	1 1/2"	2 1/4"	5"	2 7/16"
RWS-200-S	2"	2 3/8"	5 1/2"	3"
RWS-300-S	3"	3"	6 1/2"	4 5/16"
RWS-400-S	4"	3 5/8"	7"	5 3/8"

SPECIFICATION DATA: Stainless steel construction, machined brass 3/16" orifice jets, adjustable to 15° off vertical in a 360° cone, hose & clamp inlets, flush plugs, adjustable copper support legs with leg couplings and vinyl floor protector caps, factory set for a 16" water depth.

TYP. (7) | ITEM # 03

RAVS-1600
16" Sq. Anti-Vortex Plate & Sump Assembly
Scale: None



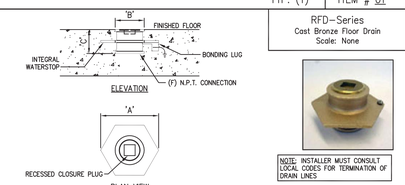
SAFETY NOTICE
THE ANTI-VORTEX PLATE MUST BE FIRMLY IN PLACE AND SECURELY FASTENED TO SUMP BODY AT ALL TIMES TO GUARD AGAINST THE POSSIBILITY OF SUCTION ENTRAPMENT. NEVER REMOVE PLATE UNLESS FOUNTAIN IS SHUT OFF AND COMPLETELY DRAINED.

SPECIFICATION DATA: 16" Square Anti-Vortex Plate & Sump Assembly; Heavy Duty FRP sump with integral waterstop flange, 4" side, 3" bottom and 2" "vacuum break" (socket) connections. (The 3" interior connection is provided with a 3" threaded male plug.) Solid brass 3/16" thick anti-vortex plate has brass spacers and "TORX" type S.S. vandal resistant safety fasteners and wrench.

RECOMMENDED MAXIMUM FLOW RATE: 200 GPM @ 16" WATER DEPTH

TYP. (2) | ITEM # 04

RFD-Series
Cast Bronze Floor Drain
Scale: None



NOTE: INSTALLER MUST CONSULT LOCAL CODES FOR TERMINATION OF DRAIN LINES

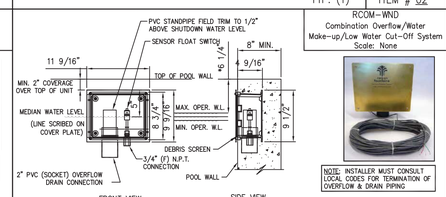
TECHNICAL DATA					
MODEL	CONNECTION SIZE	DIMENSION 'A'	DIMENSION 'B'	DIMENSION 'C'	SLAB THICKNESS
RFD-150	1 1/2"	4 7/8"	2 1/2"	3 9/16"	4" MIN.
RFD-200	2"	5 5/8"	3"	3 9/16"	6" MIN.
RFD-300	3"	6 1/2"	4 3/8"	3 1/8"	6" MIN.
RFD-400	4"	8 1/8"	5 1/2"	3 3/4"	6" MIN.

NOTE: A 'P'-TRAP MAY BE REQUIRED PER CODE; BY INSTALLER

SPECIFICATION DATA: Cast Bronze Floor Drain Fitting; with integral waterstop flange; bonding screw, threaded closure plug with recessed head and (F) N.P.T. outlet connection.

TYP. (1) | ITEM # 05

RCOM-WND
Combination Overflow/Water Make-up/Low Water Cut-Off System
Scale: None



NOTE: INSTALLER MUST CONSULT LOCAL CODES FOR TERMINATION OF OVERFLOW & DRAIN PIPING

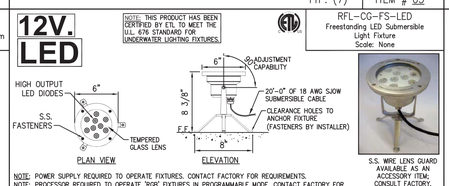
NOTES:
1. A normally closed, electrically actuated, 120V solenoid valve is required to operate water make-up function; specify RSV Series valve.
2. A lighting and/or motor contactor is required to operate the low level cut-off function; consult factory.
3. The 2" PVC overflow standpipe is removable and is furnished full height, to provide a 1/2" margin above the sensor 'high limits' position; trim as required, and re-insert.
4. Do not run sensor wire in conduit with any other conductors.

SPECIFICATION DATA: Wall-Mounted Combination Overflow/Water Make-up/Low Level Cutoff. Consists of a thermoplastic housing sensor/overflow with brass coverplate; debris screen; stainless steel fasteners; sensor compression fitting; 3/4" (F) N.P.T. conduit entry and 2" adjustable overflow. Unit features a multi-level float-type sensor of brass and Buna-N construction with a 1-3/4" adjustability range and includes 100 ft. of pre-attached, 4-conductor, color-coded sensor cable.

DO NOT OVER TIGHTEN BRASS COVER PLATE SCREWS INTO NICHE!

TYP. (1) | ITEM # 06

RFL-CG-FS-LED
Freestanding LED Submersible Light Fixture
Scale: None



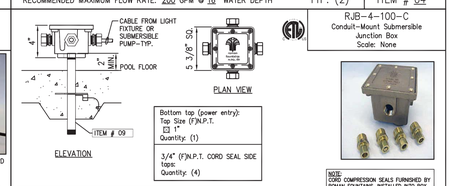
NOTE: POWER SUPPLY REQUIRED TO OPERATE FIXTURES. CONTACT FACTORY FOR REQUIREMENTS.
NOTE: PROCESSOR REQUIRED TO OPERATE 'RGB' FIXTURES IN PROGRAMMABLE MODE. CONTACT FACTORY FOR REQUIREMENTS.

TECHNICAL DATA							
MODEL NO.	LIGHT SOURCE	LIGHT COLOR	BEAM ANGLE	INPUT VOLTAGE	OUTPUT WATTS	CABLE TYPE	MAX. CABLE LENGTH	IP RATING
RFL-CG-FS-LED-W	(9) WHITE DIODES	COOL "WHITE"	25 DEG.	12V. DC	18.0	18-3 AWG SJOW	20'-0"	68
RFL-CG-FS-LED-RGB	(9) RGB DIODES	"RGB"	25 DEG.	12V. DC	15.0	18-5 AWG SJOW	20'-0"	68

SPECIFICATION DATA: ETL Listed Freestanding LED Submersible Light Fixture, fully adjustable, for floor mounting. Light has high output LED diodes, stainless steel housing, fixture base and fasteners, tempered glass lens, silicone lens gasket, chromed brass cord entrance fitting, and 20'-0" of 18 AWG SJOW cable.

TYP. (16) | ITEM # 07

RJB-4-100-C
Conduit-Mount Submersible Junction Box
Scale: None



NOTE: ONCE WIRING IS COMPLETED, FLASH LIGHTING CIRCUITS MOMENTARILY (10 SECONDS) TO VERIFY PROPER OPERATION. THEN CAULK OR PUTTY ALL CONDUIT CONNECTIONS IN J-BOX WITH (1) RPC-2114-D, ITEM #10 POTTING COMPOUND.

NOTE: CORD COMPRESSION SEALS FURNISHED BY ROMAN FOUNTAINS, INSTALLED INTO BOX BY ELECTRICIAN.

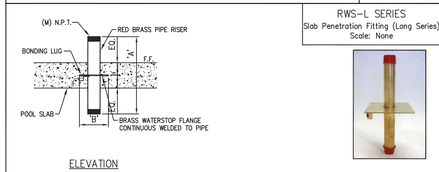
NOTE: NOT TO BE USED IN SWIMMING POOL OR SPA APPLICATIONS.

SPECIFICATION DATA: ETL Listed Conduit-Mount Submersible Junction Box, cast bronze construction, with neoprene gasket, stainless steel fasteners, one 1" (F) N.P.T. bottom power conduit connection, and (4) 3/4" N.P.T. side connections with brass cord seal fittings (shipped loose and installed in field). Junction box (j-box) has a minimum volume of 40.0 cubic inches and includes an internal grounding lug.

INSTALLATION: Roman Fountains recommends the following procedures be followed when installing underwater junction boxes.
1. Check local electrical code before installing. Must comply with NEC article 680.
2. Use only 'Everdur' or brass pipe for conduit where exposed to pool water.
3. After making and verifying all connections, use putty provided to seal all conduit entries into j-box.
4. Once conduits are sealed, pot junction box with #RPC-2114-D potting compound (Item #10).
5. Use good quality thread sealant on junction boxes.
6. Test conduit system to eliminate all leaks.

TYP. (4) | ITEM # 08

RWS-L SERIES
Slab Penetration Fitting (Long Series)
Scale: None



TECHNICAL DATA			
MODEL	N.P.T.	LENGTH 'A'	FLANGE SIZE 'B'
RWS-050-L	1/2"	10"	4" Sq.
RWS-075-L	3/4"	10"	4" Sq.
RWS-100-L	1"	10"	4" Sq.
RWS-125-L	1 1/4"	12"	4" Sq.
RWS-150-L	1 1/2"	12"	4" Sq.
RWS-200-L	2"	18"	6" Sq.
RWS-300-L	3"	24"	8" Sq.

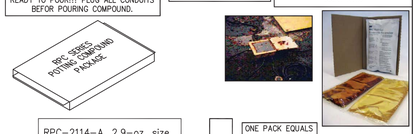
SPECIFICATION DATA: Slab Penetration Fitting (Long Style); Sch. 40 Red Brass pipe body to ASTM-B-16, brass waterstop flange/concrete key, continuous welded to pipe at the midpoint, brass threaded bond screw, N.P.T. male threads at each end.

TYP. (4) | ITEM # 09

RPC-2114 SERIES
Potting Compound
Scale: None

INSTALLER NOTE
DO NOT OPEN AND MIX CONTENTS UNTIL READY TO POUR!!! PLUG ALL CONDUITS BEFOR POURING COMPOUND.

NOTE: SEE ITEM # 08 FOR THIS ITEM'S APPLICATION.



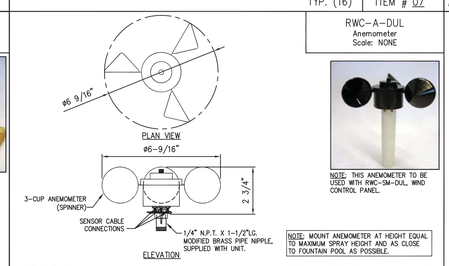
RPC-2114-A, 2.9-oz. size	ONE PACK EQUALS 5.24 CU. IN.
RPC-2114-C, 12.3-oz. size	ONE PACK EQUALS 22.19 CU. IN.
RPC-2114-D, 21.2-oz. size	ONE PACK EQUALS 38.24 CU. IN.

NOTE: ARTICLE 680-52(b) OF THE NATIONAL ELECTRICAL CODE (N.E.C.) REQUIRES THAT ALL UNDERWATER JUNCTION BOXES AND ALL UNDERWATER ENCLOSURES BE FILLED WITH AN APPROVED POTTING COMPOUND TO PREVENT THE ENTRY OF MOISTURE.

SPECIFICATION DATA: Potting Compound, re-enterable, electrical insulating and poting compound, designed for use in RJB-Series junction boxes (required by NEC 680).

TYP. (4) | ITEM # 10

RWC-A-DUL
Anemometer
Scale: NONE



NOTE: THIS ANEMOMETER TO BE USED WITH RWC-SM-DUL, WIND CONTROL PANEL.

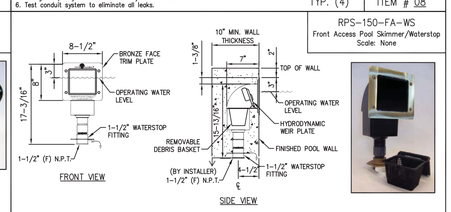
NOTE: MOUNT ANEMOMETER AT HEIGHT EQUAL TO MAXIMUM SPRAY HEIGHT AND AS CLOSE TO FOUNTAIN POOL AS POSSIBLE.

NOTE: 18-3 shielded cable is required (by installer) to connect anemometer to control. Limit run to 200' in its own dedicated conduit.
NOTE: Height reduction requires a control valve or variable frequency motor drive which are both available as accessory item; consult factory.

SPECIFICATION DATA: Molded 3-cup ultraviolet protected polycarbonate anemometer. Rotor shaft is supported by a beryllium copper shaft riding on Teflon bearings.

TYP. (1) | ITEM # 11

RPS-150-FA-WS
Front Access Pool Skimmer/Waterstop
Scale: None

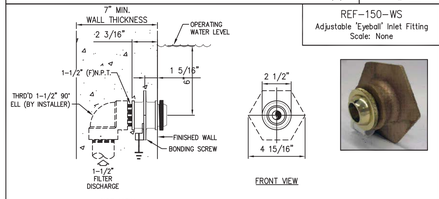


TECHNICAL AND HYDRAULIC DATA		
MODEL	CONNECTION SIZE	MAXIMUM FLOW RATE
RPS-150-FA-WS	1-1/2" (F) N.P.T.	30 GPM

SPECIFICATION DATA: Front Access Pool Skimmer; consisting of a black ABS body with removable nylon strainer basket and polypropylene hydrodynamic weir plate, brass face plate, integral bronze waterstop fitting and 1-1/2" (F) N.P.T. connection.

TYP. (2) | ITEM # 12

REF-150-WS
Adjustable 'Eyeball' Inlet Fitting
Scale: None

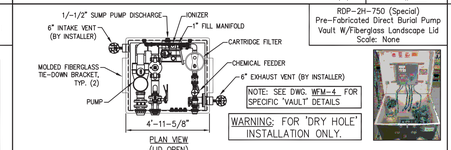


TECHNICAL AND HYDRAULIC DATA		
MODEL	CONNECTION SIZE	MAXIMUM FLOW RATE
REF-150-WS	1-1/2" (F) N.P.T.	30 GPM

SPECIFICATION DATA: Adjustable 'Eyeball' Inlet Fitting; consisting of a machined bronze body with integral waterstop flange, bonding screw, machined brass 'eyeball' with 3/4" orifice, retaining ring and 1-1/2" female threaded connection, standard natural brass finish.

TYP. (2) | ITEM # 13

RDP-2H-750 (Special)
Pre-Fabricated Direct Burial Pump Vault W/Fiberglass Landscape Lid
Scale: None



TECHNICAL AND HYDRAULIC DATA				
MODEL No.	HP	Suct./Disch. (F) Socket	Maximum Flow Rate	Power Req.
RDP-2H-300-S	3	3"x4"	150	208-230, 1ø
RDP-2H-500-S	5	*4"/ (2)4"	300	208-230/460, 3ø
RDP-2H-750-S	7.5	*4"/(2)4"	400	208-~~230/460~~, 3ø

*MUST BE INCREASED TO 6" IMMEDIATELY OUTSIDE VAULT.

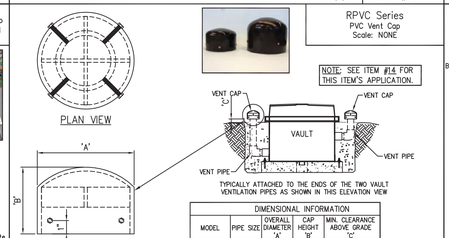
NOTES:
1. Hatch opening must be located in flood-safe area.
2. Slope finished grade away from pump module.
3. Protect pump module gravity drain from back flow and gas.
4. Top of pump module must be at, or below lowest pool water level.

SPECIFICATION DATA: Series 2H Direct Burial Pump Vault, consisting of a 4'-0" x 4'-6" x 4'-2" deep heavy duty FRP vault with white gel-coat interior and brown gel-coat exterior, furnished with fiberglass reinforced plastic lid with stainless steel piano hinge attachment, containing a RSPP-750, 7.5 HP self-priming display pump with integral suction strainer; 7.5 HP VARIABLE FREQUENCY DRIVE; RCCF-075, 75 sq. ft. cartridge filter unit; 4" in-line strainer ; 4" vent connections with 510 CFM vent fan @ 0.2" S.P., ROUAC-10 'Copper/Silver' Ionizer; RMS-100-N, 1" copper water make-up/fill manifold, in-line brominator, sump well with 1/3 HP automatic sump pump; RWC-SM-DUL WIND COMPENSATION CONTROL PANEL; RPCP/RLCP, U.L. 508 listed control panel in a NEMA 4 enclosure, containing: main disconnect switch; motor starter with adjustable motor protector, 2-channel programmable timer for pump and lights, H.O.A. switches, lighting contactor, G.F.C.I. breakers, and water level/low level cutoff control circuitry. Unit is pre-wired, pre-plumbed (schedule 80 PVC) and factory tested prior to shipment.

Power requirement: 120/208 V., 3-phase, 4-wire plus ground.

TYP. (1) | ITEM # 14

RPVC Series
PVC Vent Cap
Scale: NONE



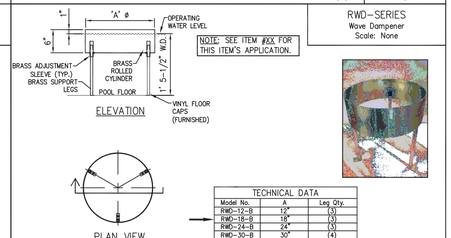
NOTE: SEE ITEM #14 FOR THIS ITEM'S APPLICATION.

DIMENSIONAL INFORMATION					
MODEL	PIPE SIZE	OVERALL DIAMETER 'A'	CAP HEIGHT 'B'	MIN. CLEARANCE ABOVE GRADE 'C'
RPVC-300	3"	6-5/32"	4-1/2"	2"
RPVC-400	4"	7-1/4"	5"	3"
RPVC-600	6"	9-5/16"	6-3/8"	6"
RPVC-800	8"	11-13/16"	5-1/4"	6"

SPECIFICATION DATA: PVC Vent Cap, Constructed of Schedule 40 PVC, and 1/4" stainless steel fasteners and internal safety stop. Low profile corrosion resistant design. Standard brown color.

TYP. (2) | ITEM # 15

RWD-SERIES
Wave Dampener
Scale: None



NOTE: SEE ITEM #XX FOR THIS ITEM'S APPLICATION.

TECHNICAL DATA		
Model No.	A	Leg Qty.
RWD-12-B	12"	(3)
RWD-18-B	18"	(3)
RWD-24-B	24"	(3)
RWD-30-B	30"	(4)
RWD-36-B	36"	(4)
RWD-48-B	48"	(4)
RWD-60-B	60"	(6)
RWD-72-B	72"	(6)

NOTE: Larger diameters available; consult factory.

SPECIFICATION DATA: Brass Wave Dampener; assembly shall consist of brass and copper construction. Adjustable legs travel in fixed locating sleeves and are held in place with stainless steel set screws. Leg anchor tabs contain clearance holes for 1/4" anchoring hardware. Unit furnished with natural brushed finish.

TYP. (1) | ITEM # 16

DRAWING SUBMITTAL
NOT FOR CONSTRUCTION
FOR CLIENT REVIEW.

PREPARED FOR:
CITY OF WALTERBORO, SOUTH CAROLINA
CITY OF WALTERBORO
242 HAMPTON STREET
WALTERBORO, SOUTH CAROLINA 29488
843-549-1021

95% PLANS
I-95 BUSINESS LOOP
PHASES 1B
Walterboro, South Carolina

NOT FOR CONSTRUCTION

DGN: MCT
R/W: CMB
CHK: MB

#	REVISION	DATE	BY

DAVIS & FLOYD
SINCE 1954
WWW.DAVISFLOYD.COM
3729 W. MONTAGUE AVENUE
CHARLESTON, SC 29418
(843) 554-8602

NOT FOR CONSTRUCTION
This drawing copy may have been reproduced at a size different than the original drawing. No responsibility is assumed for the use of incorrect scale. Drawings are not to be scaled.

South Carolina 811 Call 811 Before you Dig

Wood+Partners Inc. WPi
Landscape Architects Land Planners
1211 Miccosukee Road ■ Tallahassee, FL 32308
850.391.0360 ■ Fax 850.386.1010 ■ www.woodandpartners.com

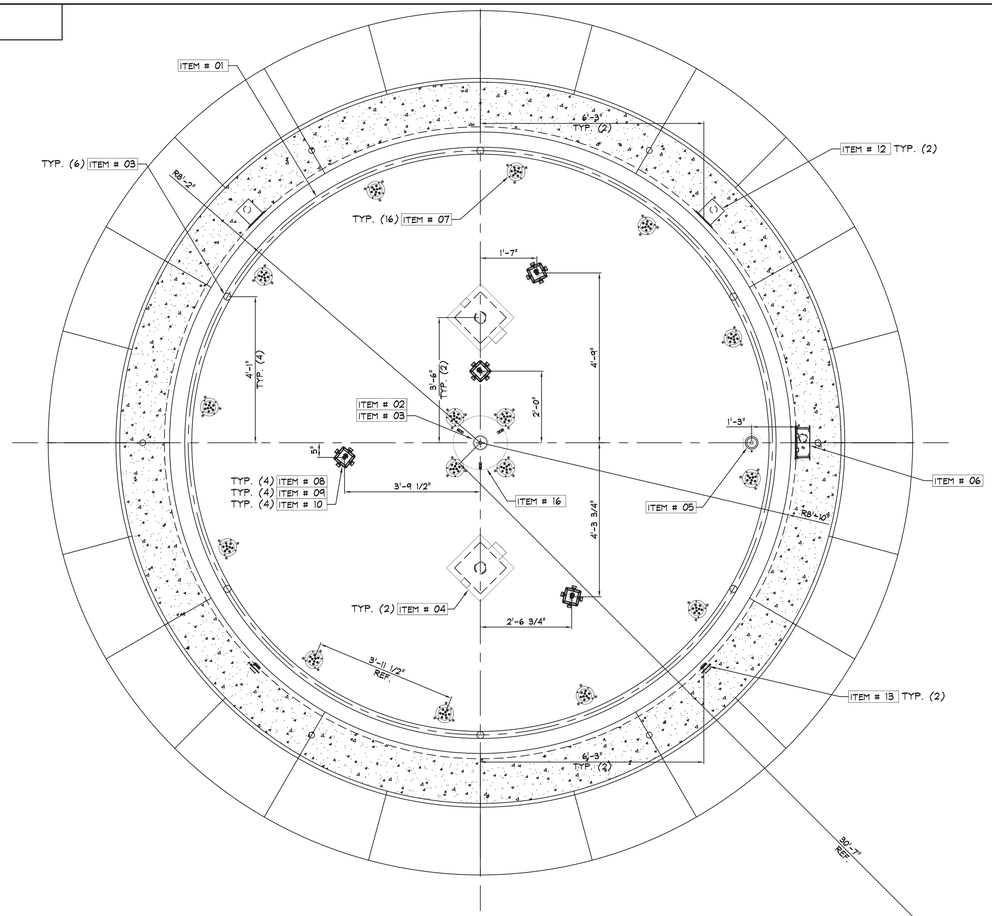
FOUNTAIN DETAILS SHEET

ROMAN FOUNTAINS

SHEET NUMBER
L22

Y:\2015-Jobs\Walterboro (Wood + Partners, Inc) Design A\Drawings\Walterboro(Wood+Partners)Design.dwg 2/11/2016 6:13:41 PM CHRIS

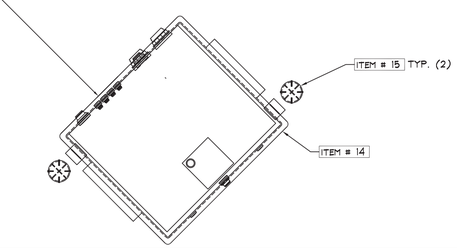
FED. RD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	COLLETON	0041932	02-14011	SC 63		



NOTE:
INSTALL ANEMOMETER WITHIN 200 FT. OF WIND CONTROL PANEL IN AN OPEN AREA THAT WILL EXPERIENCE THE SAME WIND CURRENTS AS THE WATER FEATURE.

ITEM # 11

NOTE:
INSTALLER TO COORDINATE EXACT LOCATION OF PUMP VAULT WITH LANDSCAPE ARCHITECT.



FOUNTAIN DIMENSION PLAN

SCALE: 1/2"=1'-0"

CITY OF WALTERBORO (02/12/16)

Equipment List – By Roman Fountains

Item No.	Qty.	Component Number	Description
01	1	CSR-196 (Special)	16'-4" Dia. Copper Spray Ring.
02	1	RCN-200	2" Cascade Nozzle.
*03	7	RWS-200-S	2" Slab Penetration Fitting.
*04	2	RAVS-1600	16" Sq. Anti-Vortex Plate and Sump Assembly.
*05	1	RFD-300	3" Machined Cast Bronze Floor-Drain Fitting.
*06	1	RCOM-WND	Overflow/Low Water Level Sensor.
07	16	RFL-CG-FS-LED-W	Freestanding LED Submersible Light Fixture.
08	4	RJB-4-100-C	Submersible Junction Box.
*09	4	RWS-100-L	1" Slab Penetration Fitting.
10	4	RPC-2114-D	Potting Compound.
11	1	RWC-A-DUL	Anemometer.
*12	2	RPS-150-FA-WS	Front Access Surface Skimmer W/Waterstop.
*13	2	REF-150-WS	Adjustable 'Eyeball' Inlet Fitting.
14	1	RDP-2H-750 (Special)	Series 2H Direct Burial Pump Vault. PWR. RQT.: 120/208V. 3-Phase
15	2	RPVC-600	6" PVC Vent Cap.

***NOTE: CONCRETE EMBED ITEM, REQUIRED FOR POUR.**
NOTE: SEE SHEET WFN-2 FOR FULL ITEM DESCRIPTIONS.

PREPARED FOR:
CITY OF WALTERBORO SOUTH CAROLINA
CITY OF WALTERBORO
242 HAMPTON STREET
WALTERBORO, SOUTH CAROLINA
29488

95% PLANS
I-95 BUSINESS LOOP
PHASES 1B
Walterboro, South Carolina

NOT FOR CONSTRUCTION

DGN: MCT
R/W: CMB
CHK: MB

#	REVISION	DATE	BY

DRAWING SUBMITTAL
NOT FOR CONSTRUCTION
FOR CLIENT REVIEW.

DAVIS & FLOYD
SINCE 1954
WWW.DAVISFLOYD.COM

3729 W. MONTAGUE AVENUE
CHARLESTON, SC 29418
(843) 554-8602

NOT FOR CONSTRUCTION
This drawing copy may have been reproduced at a size different than the original drawing. No responsibility is assumed for the use of incorrect scale. Drawings are not to be scaled.

South Carolina 811 Call 811 Before you Dig

Wood+Partners Inc. WPi
Landscape Architects
Land Planners
1211 Miccosukee Road ■ Tallahassee, FL 32308
850.391.0360 ■ Fax 850.386.1010 ■ www.woodandpartners.com

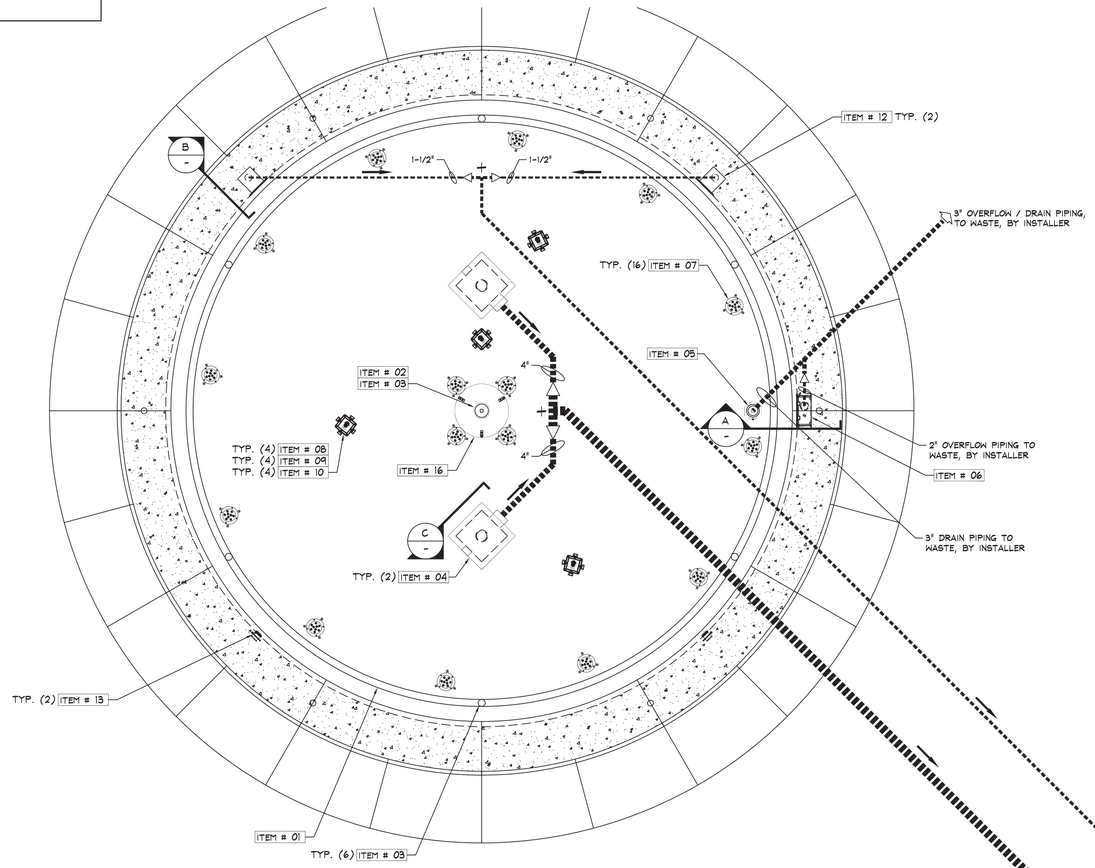
FOUNTAIN DIMENSION PLAN

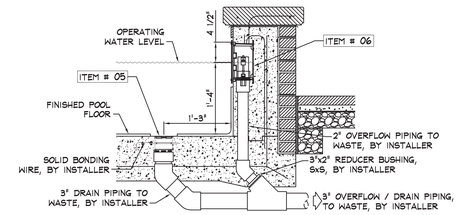
ROMAN FOUNTAINS

SHEET NUMBER
L23

Y:\2015-Jobs\Walterborro (Wood + Partners, Inc) Design A\Drawings\Walterborro\Wood+Partners\Design.dwg 2/11/2016 6:13:41 PM CHRIS

FED. RD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	COLLETON	0041932	02-14011	SC 63		



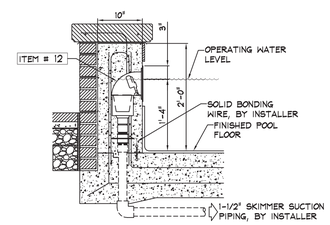


SECTION 'A'
SCALE: 3/4"=1'-0"

CITY OF WALTERBORO (02/12/16)
Equipment List – By Roman Fountains

Item No.	Qty.	Component Number	Description
01	1	CSR-196 (Special)	16'-4" Dia. Copper Spray Ring.
02	1	RCN-200	2" Cascade Nozzle.
*03	7	RWS-200-S	2" Slab Penetration Fitting.
*04	2	RAVS-1600	16" Sq. Anti-Vortex Plate and Sump Assembly.
*05	1	RFD-300	3" Machined Cast Bronze Floor-Drain Fitting.
*06	1	RCOM-WND	Overflow/Low Water Level Sensor.
07	16	RFL-CG-FS-LED-W	Freestanding LED Submersible Light Fixture.
08	4	RJB-4-100-C	Submersible Junction Box.
*09	4	RWS-100-L	1" Slab Penetration Fitting.
10	4	RPC-2114-D	Potting Compound.
11	1	RWC-A-DUL	Anemometer.
*12	2	RPS-150-FA-WS	Front Access Surface Skimmer W/Waterstop.
*13	2	REF-150-WS	Adjustable 'Eyeball' Inlet Fitting.
14	1	RDP-2H-750 (Special)	Series 2H Direct Burial Pump Vault. PWR. RQT.: 120/208V. 3-Phase
15	2	RPVC-600	6" PVC Vent Cap.

***NOTE: CONCRETE EMBED ITEM, REQUIRED FOR POUR.**
NOTE: SEE SHEET WFN-2 FOR FULL ITEM DESCRIPTIONS.

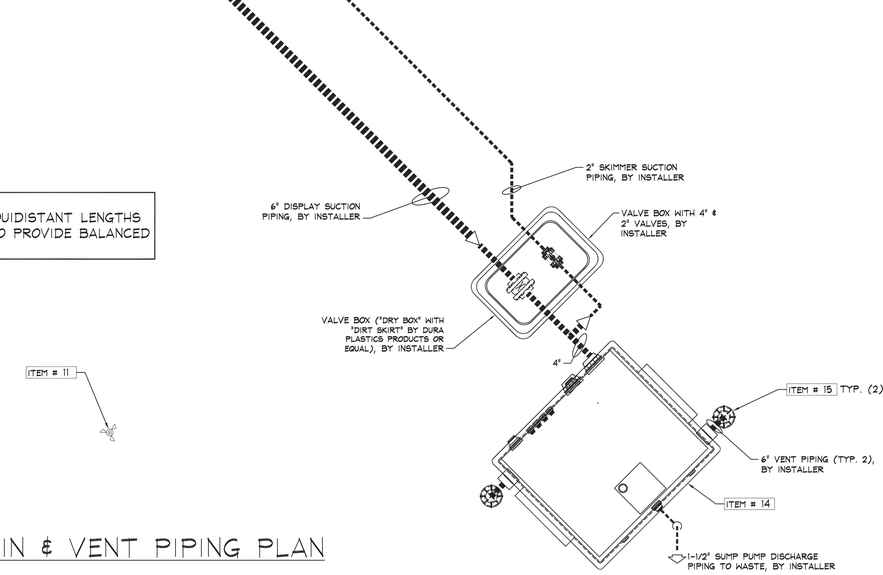


SECTION 'B'
SCALE: 3/4"=1'-0"

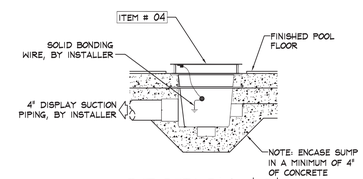
PIPING SCHEMATIC SYMBOL LEGEND

Symbol	Description
	A reducer fitting, by installer, is required at this location to change the pipe size.
	Piping turning downward in plan view via a 90 degree elbow. This allows another 90 degree elbow, located directly below the shown schematic elbow, to change the pipe direction to any angle.
	Piping turning downward in plan view or directly away from the viewer in section view via a 90 degree elbow.
	Piping turning upward in plan view or directly towards the viewer in section view via a 90 degree elbow.
	Direction of water flow.

+ IMPORTANT NOTE:
INSTALL PIPING IN EQUIDISTANT LENGTHS WHERE INDICATED, TO PROVIDE BALANCED FLOW DISTRIBUTION.



FOUNTAIN SUCTION, DRAIN & VENT PIPING PLAN
SCALE: 1/2"=1'-0"



SECTION 'C'
SCALE: 3/4"=1'-0"

DRAWING SUBMITTAL
NOT FOR CONSTRUCTION
FOR CLIENT REVIEW.

PREPARED FOR:
CITY OF WALTERBORO
242 HAMPTON STREET
WALTERBORO, SOUTH CAROLINA
29488

95% PLANS
I-95 BUSINESS LOOP
PHASES 1B
Walterboro, South Carolina

NOT FOR CONSTRUCTION

DGN: MCT
R/W: CMB
CHK: MB

#	REVISION	DATE	BY

DAVIS & FLOYD
SINCE 1954
WWW.DAVISFLOYD.COM
3209 W. MONTAGUE AVENUE
CHARLESTON, SC 29418
(843) 554-8022

NOT FOR CONSTRUCTION
This drawing copy may have been reproduced at a size different than the original drawing. No responsibility is assumed for the use of incorrect scale. Drawings are not to be scaled.

South Carolina 811 Call 811 Before you Dig

Wood+Partners Inc. WPi
Landscape Architects
Land Planners
1211 Miccosukee Road ■ Tallahassee, FL 32308
850.391.0350 ■ Fax 850.386.1010 ■ www.woodandpartners.com

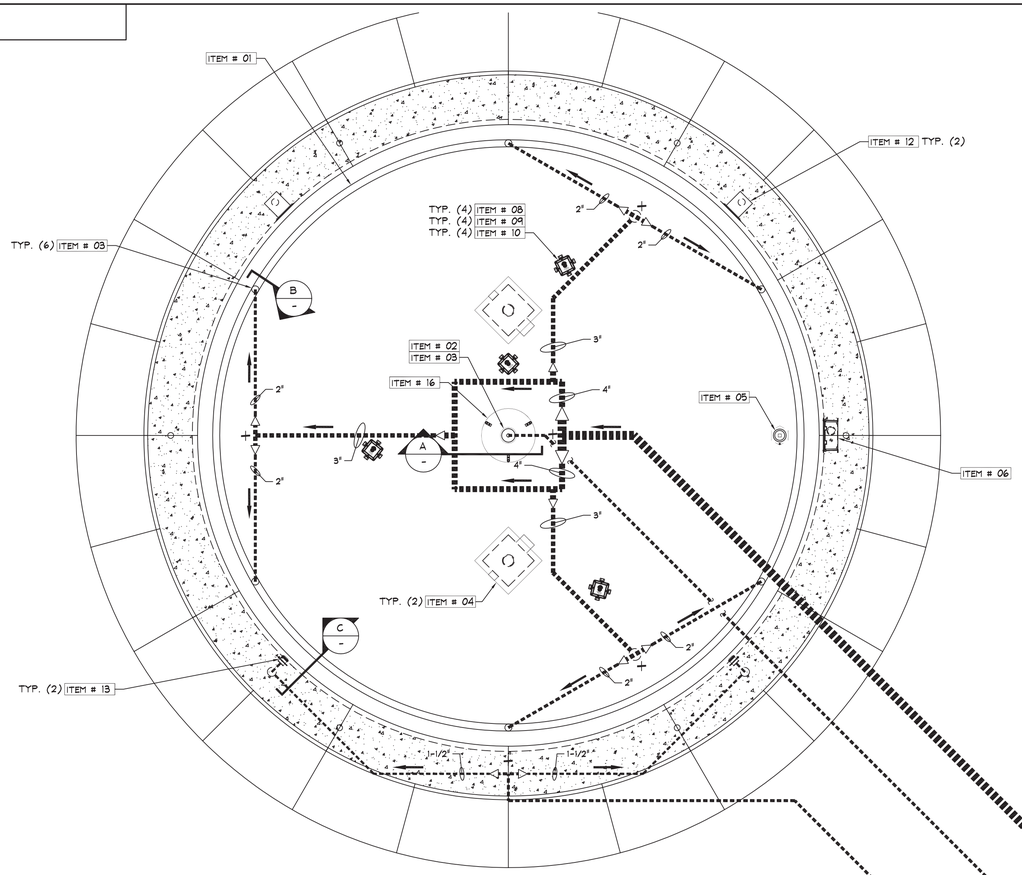
FOUNTAIN SUCTION, DRAIN & VENT PIPING PLAN

ROMAN FOUNTAINS

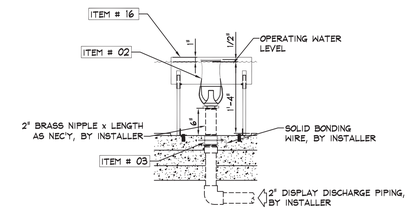
SHEET NUMBER
L24

X:\2015-Jobs\Walterboro (Wood + Partners, Inc) Design A\Drawings\Walterboro(Wood+Partners)Design.dwg 2/11/2016 6:13:41 PM CHRIS

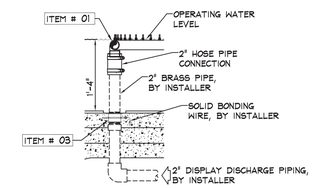
FED. RD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	COLLETON	0041932	02-14011	SC 63		



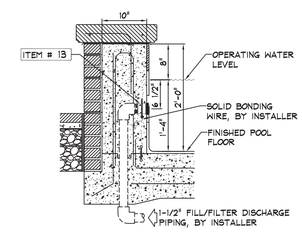
+IMPORTANT NOTE:
INSTALL PIPING IN EQUIDISTANT LENGTHS WHERE INDICATED, TO PROVIDE BALANCED FLOW DISTRIBUTION.



SECTION 'A'
SCALE: 3/4"=1'-0"



SECTION 'B'
SCALE: 3/4"=1'-0"



SECTION 'C'
SCALE: 3/4"=1'-0"

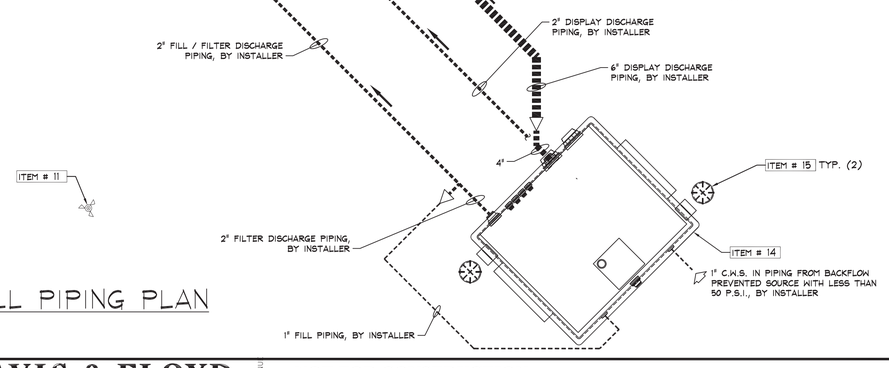
CITY OF WALTERBORO (02/12/16)
Equipment List – By Roman Fountains

Item No.	Qty.	Component Number	Description
01	1	CSR-196 (Special)	16'-4" Dia. Copper Spray Ring.
02	1	RCN-200	2" Cascade Nozzle.
*03	7	RWS-200-S	2" Slab Penetration Fitting.
*04	2	RAVS-1600	16" Sq. Anti-Vortex Plate and Sump Assembly.
*05	1	RFD-300	3" Machined Cast Bronze Floor-Drain Fitting.
*06	1	RCOM-WND	Overflow/Low Water Level Sensor.
07	16	RFL-CG-FS-LED-W	Freestanding LED Submersible Light Fixture.
08	4	RJB-4-100-C	Submersible Junction Box.
*09	4	RWS-100-L	1" Slab Penetration Fitting.
10	4	RPC-2114-D	Potting Compound.
11	1	RWC-A-DUL	Anemometer.
*12	2	RPS-150-FA-WS	Front Access Surface Skimmer W/Waterstop.
*13	2	REF-150-WS	Adjustable 'Eyeball' Inlet Fitting.
14	1	RDP-2H-750 (Special)	Series 2H Direct Burial Pump Vault. PWR. RQT.: 120/208V. 3-Phase
15	2	RPVC-600	6" PVC Vent Cap.

*NOTE: CONCRETE EMBED ITEM, REQUIRED FOR POUR.
NOTE: SEE SHEET WFN-2 FOR FULL ITEM DESCRIPTIONS.

PIPING SCHEMATIC SYMBOL LEGEND

Symbol	Description
	A reducer fitting, by installer, is required at this location to change the pipe size.
	Piping turning downward in plan view via a 90 degree elbow. This allows another 90 degree elbow, located directly below the shown schematic elbow, to change the pipe direction to any angle.
	Piping turning downward in plan view or directly away from the viewer in section view via a 90 degree elbow.
	Piping turning upward in plan view or directly towards the viewer in section view via a 90 degree elbow.
	Direction of water flow.



FOUNTAIN DISCHARGE & FILL PIPING PLAN
SCALE: 1/2"=1'-0"

DRAWING SUBMITTAL
NOT FOR CONSTRUCTION
FOR CLIENT REVIEW.

PREPARED FOR:
CITY OF WALTERBORO SOUTH CAROLINA
CITY OF WALTERBORO
242 HAMPTON STREET
WALTERBORO, SOUTH CAROLINA
SCALE:

95% PLANS
I-95 BUSINESS LOOP
PHASES 1B
Walterboro, South Carolina

NOT FOR CONSTRUCTION

DGN: MCT
R/W: CMB
CHK: MB

#	REVISION	DATE	BY

DAVIS & FLOYD
SINCE 1954
WWW.DAVISFLOYD.COM
3228 W. MONTAGUE AVENUE
CHARLESTON, SC 29418
(843) 554-8602

NOT FOR CONSTRUCTION
This drawing copy may have been reproduced at a size different than the original drawing. No responsibility is assumed for the use of incorrect scale. Drawings are not to be scaled.

South Carolina 811 Call 811 Before you Dig

Wood+Partners Inc. WPi
Landscape Architects
Land Planners
1211 Miccosukee Road ■ Tallahassee, FL 32308
850.391.0360 ■ Fax 850.386.1010 ■ www.woodandpartners.com

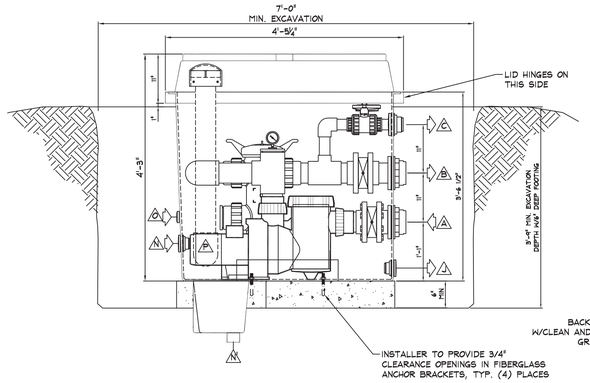
FOUNTAIN DISCHARGE & FILL PIPING PLAN

ROMAN FOUNTAINS

SHEET NUMBER
L25

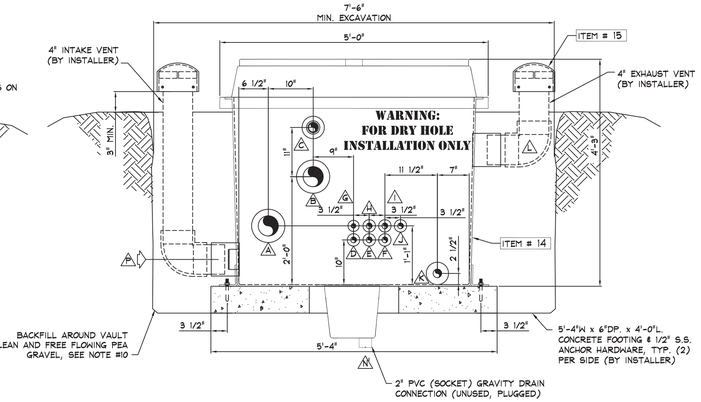
Y:\2015-Jobs\Walterboro (Wood + Partners, Inc) Design A\Drawings\Walterboro(Wood+Partners)Design.dwg 2/11/2016 6:13:41 PM CHRIS

FED. RD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	COLLETON	0041932	02-14011	SC 63		



VAULT: SIDE DETAIL

SCALE: 3/4"=1'-0"

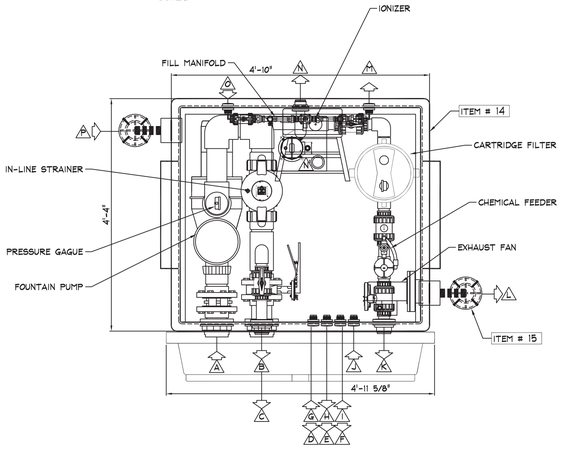


VAULT: FRONT DETAIL

SCALE: 3/4"=1'-0"

THIS SIDE FACES TOWARD FOUNTAIN

NOTE: THIS PUMP VAULT IS P.E. REVIEWED AND STAMPED FOR STRUCTURAL INTEGRITY AND FOR DIRECT BURIAL APPLICATIONS.



VAULT: PLAN VIEW

SCALE: 3/4"=1'-0"

THIS SIDE FACES TOWARD FOUNTAIN

CAUTION

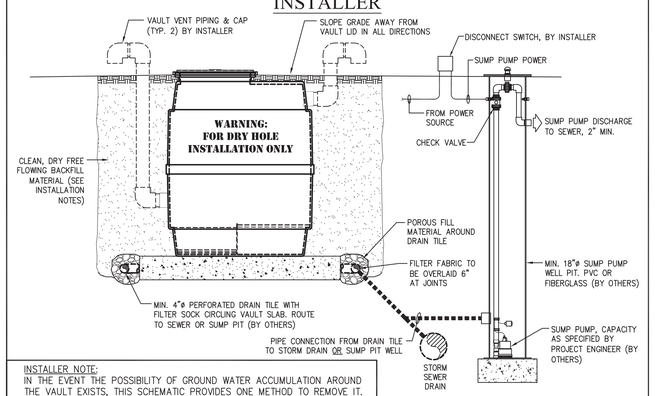
"ALL VAULT DIMENSIONS, PENETRATIONS AND SLEEVE LOCATIONS ARE APPROXIMATE.

IF FINAL INSTALLATION TOLERANCES/ELEVATIONS/LOCATIONS/POSITIONS ARE CRITICAL INSTALLER SHALL CONTACT ROMAN FOUNTAINS PRIOR TO FINALIZING TRENCHING DEPTHS, EXCAVATION AND ANCHOR SLAB POUR FOR CERTIFICATION OF ACTUAL FINISHED VAULT DIMENSIONS."

CAUTION

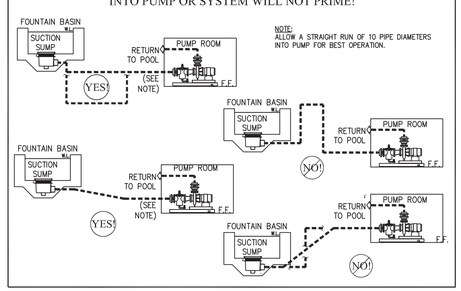
ANY AND ALL VOIDS, POCKETS AND 'DEAD AIR SPACE' BENEATH A DIRECT BURIAL PUMP VAULT UNIT 'MUST' BE COMPLETELY FILLED IN AND ADEQUATELY COMPACTED PRIOR TO FINAL BACKFILLING AROUND VAULT UNIT. USE A PROPERLY FORMULATED, LOW CEMENTITIOUS CONTENT 'FLOWABLE FILL' MIXTURE OR OTHER FREE FLOWING MATERIAL TO COMPLETELY FILL ALL VOIDS, AS SPECIFIED AND APPROVED BY THE PROJECT ENGINEER.

DIRECT BURIAL VAULT DEWATERING SYSTEM, IF REQUIRED, BY INSTALLER



INSTALLER NOTE:
IN THE EVENT THE POSSIBILITY OF GROUND WATER ACCUMULATION AROUND THE VAULT EXISTS, THIS SCHEMATIC PROVIDES ONE METHOD TO REMOVE IT. ALL MATERIALS, INSTALLATION AND COSTS ARE "BY OTHERS". CONSULT WITH CIVIL ENGINEER PRIOR TO USING THIS METHOD.

FOUNTAIN WATER MUST 'GRAVITY FLOW' INTO PUMP OR SYSTEM WILL NOT PRIME!



SYSTEM POWER REQUIREMENT:
120/208V., 3-PHASE, 4-WIRE FEEDER + GND. @ 60 AMPS CONTACT FACTORY IMMEDIATELY IF NOT AVAILABLE.
(NOTE: SEE SHEET WFI-1 FOR POWER DIAGRAM)

DRAWING SUBMITTAL NOT FOR CONSTRUCTION FOR CLIENT REVIEW.

VAULT PIPING AND CONDUIT PENETRATION LEGEND

SYM.	SIZE	DESCRIPTION
A	4"	DISPLAY SUCTION PIPING CONNECTION
B	4"	DISPLAY DISCHARGE PIPING CONNECTION
C	2"	DISPLAY DISCHARGE PIPING CONNECTION
D	1"C	CONDUIT CONNECTION FOR BASIN LIGHTING (2 #12 +GND.)
E	1"C	CONDUIT CONNECTION FOR BASIN LIGHTING (2 #12 +GND.)
F	1"C	CONDUIT CONNECTION FOR BASIN LIGHTING (2 #12 +GND.)
G	3/4"C	CONDUIT FROM RCOM-WND WATER LEVEL SENSOR (100 FEET OF 22/4 CABLE INCLUDED)
H	1"C	CONDUIT CONNECTION FOR BASIN LIGHTING
I	3/4"C	CONDUIT CONNECTION FOR ANEMOMETER FOR WIND COMPENSATION SYSTEM
J	1"C.	POWER CONDUIT FROM POWER SOURCE (120/208V. 3-ø 4-WIRE FEEDER +GND.)
K	2"	FILTER DISCHARGE PIPING CONNECTION
L	6"	EXHAUST VENT PIPING CONNECTION
M	1"	FOUNTAIN FILL PIPING CONNECTION
N	1-1/2"	VAULT SUMP PUMP DISCHARGE PIPING CONNECTION TO WASTE
X	2"	VAULT SUMP DRAIN PIPING CONNECTION TO WASTE (PLUGGED, NOT USED)
O	1"	INCOMING COLD WATER SUPPLY PIPING TO FROM BACKFLOW PROTECTED SOURCE WITH LESS THAN 50 PSI PRESSURE
P	6"	INTAKE VENT PIPING CONNECTION

SPECIFICATION DATA: Series 2H Direct Burial Pump Vault, consisting of a 4'-0" x 4'-6" x 4'-2" deep heavy duty FRP vault with white gel-coat interior and brown gel-coat exterior, furnished with fiberglass reinforced plastic lid with stainless steel piano hinge attachment, containing a RSPP-750, 7.5 HP self-priming display pump with integral suction strainer; 7.5 HP VARIABLE FREQUENCY DRIVE; RCCF-075, 75 sq. ft. cartridge filter unit; 4" in-line strainer ; 4' vent connections with 150 CFM vent fan @ 0.2" S.P.; RCUAG-15 'Copper/Silver' ionizer; RMS-100-N, 1" copper water make-up/fill manifold, in-line brominator, sump well with 1/3 HP automatic sump pump; RNC-SM-DUL WIND COMPENSATION CONTROL PANEL; RPCP/RLCP, U.L. 508 listed control panel in a NEMA 4 enclosure, containing: main disconnect switch; motor starter with adjustable motor protector, 2-channel programmable timer for pump and lights, H.O.A. switches, lighting contactor, G.F.C.I. breakers, and water level/low level cutoff control circuitry. Unit is pre-wired, pre-plumbed (schedule 80 PVC) and factory tested prior to shipment.

Power requirement: 120/208 V., 3-phase, 4-wire plus ground.

NOTE: ALL CONNECTION LOCATIONS ARE APPROXIMATE.

NEC ARTICLE 680.11 NOTICE

EQUIPMENT ROOMS, VAULTS AND PITS MUST HAVE ADEQUATE DRAINAGE TO PREVENT WATER ACCUMULATION DURING NORMAL OPERATION OR FILTER USE. INSTALLER SHALL CONNECT A DRAIN LINE TO DRAIN FITTING FURNISHED ON VAULT AND TERMINATE IT IN ACCORDANCE WITH LOCAL CODES.

DANGER

FATAL ELECTRICAL SHOCK CAN OCCUR IF FOUNTAIN ELECTRICAL EQUIPMENT IS NOT INSTALLED PROPERLY. THIS EQUIPMENT SHOULD ONLY BE INSTALLED BY QUALIFIED ELECTRICIANS WITH PROPER GROUNDING AND GROUND FAULT INTERRUPTION CIRCUIT BREAKERS IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE, SECTION 680, AND ALL OTHER APPLICABLE SECTIONS OF THE CODE.

NOTES:
1. HATCHWAY OPENING MUST BE LOCATED IN A AREA SAFE FROM FLOODING; SLOPE GRADE AWAY FROM VAULT.
2. PROTECT THE FURNISHED DRAIN LINE FROM POSSIBLE BACKFLOW AND SEWER GAS, AS REQUIRED.
3. VAULT SUCTION INTAKE MUST BE MIN. 1'-0" BELOW THE LOWEST POOL OPERATING WATER LEVEL.
4. ALL VAULT AND PENETRATIONS ARE APPROXIMATE.

CAUTION: INSTALLER TO VERIFY THAT ELEVATIONS AND OTHER DIMENSIONAL INFORMATION PROVIDED HEREIN, AGREE WITH ACTUAL SITE CONDITIONS. PLEASE REPORT ANY DEVIATIONS, OR POTENTIAL INSTALLATION CHANGES IMMEDIATELY TO ROMAN FOUNTAINS. PHONE: (505) 343-8082.

NOTE: THE PROPER DESIGN, OPERATION AND PERFORMANCE OF THIS SYSTEM IS BASED ON THE SELECTION AND USE OF EQUIPMENT MANUFACTURED AND/OR SELECTED BY ROMAN FOUNTAINS CORPORATION, ALBUQUERQUE, NEW MEXICO, U.S.A.; PHONE: (505) 343-8082. SUBSTITUTION OF EQUIPMENT OTHER THAN THAT SELECTED AND FURNISHED, VOIDS THE SYSTEM WARRANTY AND PERFORMANCE GUARANTEE, AND INSTALLER ASSUMES FULL RESPONSIBILITY FOR ITS OPERATION AND PERFORMANCE.

RDP SERIES 250 PUMP VAULT INSTALLATION NOTES PLEASE READ CAREFULLY

1. The gravity floor drain (located inside the Series 250 vault) must be immediately connected to storm drain, sanitary sewer, or 'day-lighted. If drain is not able to be connected DO NOT install vault until it can be connected.
2. Do not install pump vault into any location below sea level, or where a high water table exists, or in any area subject to periodic or repeated flooding, or groundwater saturation, as the unit is not designed to be surrounded by ground water; damage and/or leakage may occur. If periodic ground water flooding is possible, an adequately sized drainage system (French drain or sump pump well type) must be designed (by project engineer) and provided (by installer) around the vault to move surrounding ground water away from the unit to a lower elevation.
3. In all cases finished grade around the pump vault must be sloped away from the access hatchway in all directions so no water flows into the pump vault (see installation details this sheet). Do not allow water to "pool" around vault under any circumstances.
4. Prior to pump vault installation, a level smooth, steel reinforced concrete pad, measuring 4'-0"x5'-4"x6" minimum thickness, must be poured, and must include the four (4) installer provided 1/2" stainless steel "J"-bolts'eyebolts' (see installation drawing). Concrete shall have a minimum compression strength at 28 days of 3000 PSI and have a reinforcing steel conforming to ASTM A 615-40. Reinforced concrete pad, anchoring "J"-bolts or 'eyebolts' are provided and installed by the installing contractor.
5. The pump vault must be lifted using a properly weighted and balanced fork lift with extended forks or a boom crane and girdle straps. The weight of the vault for transportation and lifting purposes is 2,500 pounds unless otherwise indicated on the installation drawings, submittal data, or freight bill of lading.
6. Lower the pump vault into the excavation using a two part lifting sling with padded straps to ensure a true vertical lift. DO NOT LIFT FROM TOP AND DO NOT USE CHAINS FOR LIFTING AS THEY MAY DAMAGE FIBERGLASS. All off-loading and lifting equipment and labor is the responsibility of the installing contractor.
7. Lower the vault into the excavation slowly and center it on the concrete pad. Insure the concrete pad is level and thoroughly cleaned of debris that could damage the vault floor prior to placing the unit on the pad.
8. Securely anchor the vault to the stainless steel anchor bolts previously installed into the concrete pad (cable, straps and bolts furnished by the installing contractor). Vault must be plumb and level prior to hook-up and backfill. Pressure test all piping to be connected prior to backfill operations. HYDROSTATIC (WATER) TESTING SHALL BE THE ONLY APPROVED METHOD, DO NOT USE COMPRESSED AIR TO PERFORM ANY PRESSURE TESTS ON PVC PIPING.
9. After the vault is securely in position, outside piping and conduits must be aligned and connected to ensure a true fit without excessive lateral force applied to piping, conduits or fittings.
10. CAUTION: any and all voids, pockets and 'dead air space' beneath a direct burial pump vault unit 'MUST' be completely filled in and adequately compacted prior to final backfilling around vault unit. Use a [rp[er;y formulated, low cementitious content 'flowable fill' mixture or other free flowing material to completely fill all voids, as specified and approved by the project engineer.
11. Backfill around the pump vault using an approved granular material free of trash, debris, roots, rocks, vegetation, or other deleterious material. Under no circumstances shall construction waste, large rocks, concrete waste, clay based soil or any other unsuitable backfill be used. A naturally rounded aggregate of 1/4" nominal size ranging from 1/8" to 3/4" diameter, or 1/8" to 1/2" diameter stone crushings, clean and free flowing, may be used. ensure that backfill fills all voids, especially beneath all vault piping and fittings.
12. Spread backfill material in 6" to 8" lifts, and compact to at least 95% of maximum density as determined by ASTM 1557-70.
13. Use manual compaction equipment being careful not to damage pump vault, piping or conduit due to excessive compaction. A single lift of backfill material around pump vault with a final compaction to excessive loads shall not be permitted.
14. A second pressure test of piping should be made after backfilling to ensure that piping has not been damaged during backfill operations.
15. It is the responsibility of the installing contractor to ensure the all electrical equipment is installed and wired by a QUALIFIED, LICENSED ELECTRICIAN, experienced in industrial wiring. All electrical equipment must be installed in accordance with the NATIONAL ELECTRICAL CODE, and any local codes and regulations.
16. OSHA confined space requirements and safety procedures are the sole responsibility of the installer. (See insert below) This product IS NOT U.L. listed as an assembly.

OSHA DEFINED "CONFINED SPACE" INFORMATION

Certain sites contain spaces that are considered to be "confined" because their configurations hinder the activities of any individual who must enter into, work in, and exit from them. In many instances, individuals who work in confined spaces also face increased risk of exposure to serious physical injury from hazards such as entrapment, engulfment, and hazardous atmospheric conditions. Confinement itself may pose entrapment hazards, and work in confined spaces may keep an individual closer to hazards, such as machinery components, than they would otherwise. For example, confinement, limited access, and restricted airflow can result in hazardous conditions that would not normally arise in an open workplace.

The term "PERMIT-REQUIRED CONFINED SPACE" (i.e. permit space) refers to those spaces that meet the definition of a "confined space" and contain health or safety hazards, thereby requiring a permit for entry.

A confined space has limited or restricted means of entry or exit, is large enough for an individual to enter and perform assigned work, and is not designed for continuous occupancy by the individual. These spaces may include, but are not limited to underground vaults, tanks, pits and containment vessels.

A "PERMIT-REQUIRED CONFINED SPACE" is one that meets the definition of a confined space and has one or more of these characteristics: (1) contains or has the potential to contain a hazardous atmosphere, (2) contains a material that has the potential for engulfing an entrant, (3) has an internal configuration that might cause and entrant to be trapped or asphyxiated by inwardly converging walls or by a floor that slopes downward and tapers to a smaller cross section, and/or (4) contains any other recognized serious safety or health hazards.

Owner assumes all responsibility & liability for ascertaining whether direct-burial pump stations meet the definition of "PERMIT-REQUIRED CONFINED SPACE" and implementing any/all 'OSHA' requirements for identification, notification, entry and, safety, including any additional safety equipment that may be required for such entry.

PREPARED FOR:
CITY OF WALTERBORO
CITY OF WALTERBORO
242 HAMPTON STREET
WALTERBORO, SOUTH CAROLINA
29488

95% PLANS

I-95 BUSINESS LOOP PHASES 1B

Walterboro, South Carolina

NOT FOR CONSTRUCTION

DGN: MCT
R/W: CMB
CHK: MB

#	REVISION	DATE	BY

DAVIS & FLOYD
SINCE 1954
WWW.DAVIS-FLOYD.COM
3229 W. MONTAGUE AVENUE
CHARLESTON, SC 29418
(843) 554-8602

NOT FOR CONSTRUCTION
This drawing copy may have been reproduced at a size different than the original drawing. No responsibility is assumed for the use of incorrect scale. Drawings are not to be scaled.

South Carolina 811 Call 811 Before you Dig

Wood+Partners Inc. WPI
Landscape Architects
Land Planners
1211 Miccosukee Road ■ Tallahassee, FL 32308
850.391.0380 ■ Fax 850.386.1010 ■ www.woodandpartners.com

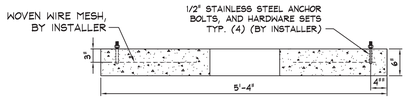
RDP-2H-500 DIRECT BURIAL PUMP VAULT DETAILS #1

ROMAN FOUNTAINS

SHEET NUMBER
L26

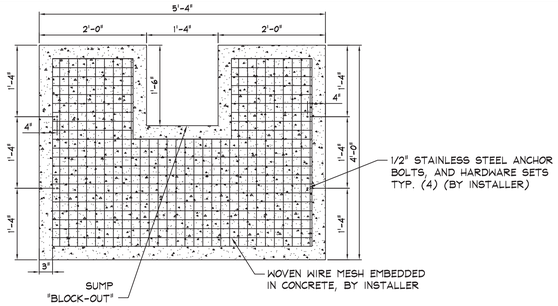
Y:\2015-Jobs\Walterboro (Wood + Partners, Inc) Design A\Drawings\Walterboro(WoodPartners)Design.dwg 2/11/2016 6:13:41 PM CHRIS

FED. RD DIV. NO	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	COLLETON	0041932	02-14011	SC 63		



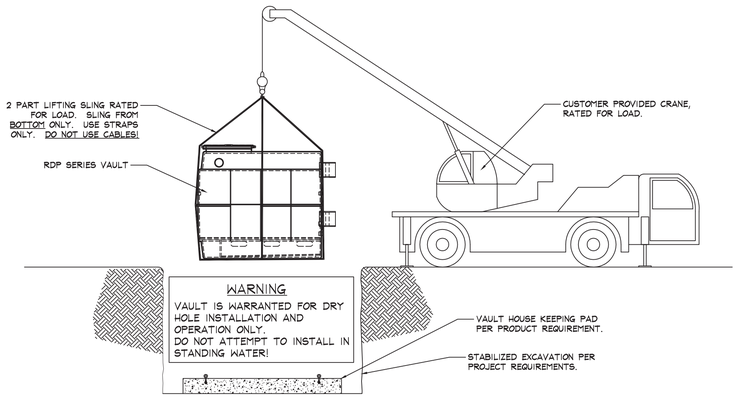
SERIES 2/2H VAULT PAD SECTION (W/SUMP)

SCALE: 3/4"=1'-0"



SERIES 2/2H VAULT PAD PLAN (W/SUMP)

SCALE: 3/4"=1'-0"



NEC ARTICLE 680.11 NOTICE

EQUIPMENT ROOMS, VAULTS AND PITS MUST HAVE ADEQUATE DRAINAGE TO PREVENT WATER ACCUMULATION DURING NORMAL OPERATION OR FILTER USE. INSTALLER SHALL CONNECT A DRAIN LINE TO DRAIN FITTING FURNISHED ON VAULT AND TERMINATE IT IN ACCORDANCE WITH LOCAL CODES.

GROSS WEIGHT OF VAULT

- ☐ RDP-1 Series — 500 LBS
- ☐ RDP-2 Series — 1,000 LBS
- ☒ RDP-2H Series — 1,500 LBS
- ☐ RDP-3S Series — 2,000 LBS
- ☐ RDP-3 Series — 3,000 LBS
- ☐ RDP-4 Series — 5,000 LBS
- ☐ RDP-5 Series — 10,000 LBS

DRAWING SUBMITTAL
NOT FOR CONSTRUCTION
FOR CLIENT REVIEW.

COMMON NOTES FOR SERIES 2/2H WITH & W/O SUMP:

RECOMMENDED MINIMUM SLAB REINFORCEMENT REQUIREMENTS:
- INSTALLER TO USE #6 X 6-4 WOVEN WIRE MESH. INSTALL WITH MINIMUM 3" CLEARANCE ON ALL SIDES.

THIS INFORMATION INDICATES SUGGESTED MINIMUMS ONLY. INSTALLER TO CONSULT AND ADHERE TO STATE AND LOCAL CODES FOR CONCRETE SPECIFICATION REQUIREMENTS, SLAB DIMENSIONS & THICKNESS AND REINFORCING STRUCTURES.

NOTES:
1. HATCHWAY OPENING MUST BE LOCATED IN A AREA SAFE FROM FLOODING; SLOPE GRADE AWAY FROM VAULT.
2. PROTECT THE FURNISHED DRAIN LINE FROM POSSIBLE BACKFLOW AND SEWER GAS, AS REQUIRED.
3. VAULT SUCTION INTAKE MUST BE MIN. 1'-0" BELOW THE LOWEST POOL OPERATING WATER LEVEL.
4. ALL VAULT AND PENETRATIONS ARE APPROXIMATE.

*ALL INTERCONNECTING PIPE, FITTINGS, CONDUIT, ETC. ARE BY INSTALLER

CAUTION: INSTALLER TO VERIFY THAT ELEVATIONS AND OTHER DIMENSIONAL INFORMATION PROVIDED HEREIN, AGREE WITH ACTUAL SITE CONDITIONS. PLEASE REPORT ANY DEVIATIONS, OR POTENTIAL INSTALLATION CHANGES IMMEDIATELY TO ROMAN FOUNTAINS. PHONE: (505) 343-8082.

NOTE: THE PROPER DESIGN, OPERATION AND PERFORMANCE OF THIS SYSTEM IS BASED ON THE SELECTION AND USE OF EQUIPMENT MANUFACTURED AND/OR SELECTED BY ROMAN FOUNTAINS CORPORATION, ALBUQUERQUE, NEW MEXICO, U.S.A.; PHONE: (505) 343-8082. SUBSTITUTION OF EQUIPMENT OTHER THAN THAT SELECTED AND FURNISHED, VOIDS THE SYSTEM WARRANTY AND PERFORMANCE GUARANTEE, AND INSTALLER ASSUMES FULL RESPONSIBILITY FOR ITS OPERATION AND PERFORMANCE.

⚡ DANGER ⚡

FATAL ELECTRICAL SHOCK CAN OCCUR IF FOUNTAIN ELECTRICAL EQUIPMENT IS NOT INSTALLED PROPERLY. THIS EQUIPMENT SHOULD ONLY BE INSTALLED BY QUALIFIED ELECTRICIANS WITH PROPER GROUNDING AND GROUND FAULT INTERRUPTION CIRCUIT BREAKERS IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE, SECTION 680, AND ALL OTHER APPLICABLE SECTIONS OF THE CODE.

NOTICE

THIS VAULT PRODUCT IS NOT OFFERED AS A 'UL' OR 'ETL' LISTED ASSEMBLY. SHOULD THE LOCAL INSPECTING AUTHORITY HAVING JURISDICTION (AHJ) REQUIRE SUCH A LISTING THE CUSTOMER SHALL BEAR ALL RESPONSIBLITY FOR OBTAINING SUCH A LISTING.

UL CAN BE CONTACTEDAT UL CUSTOMER SERVICE (877) 854-3577 OR VIA E-MAIL AT ULFieldinspections@UL.com TO REQUEST/SCHEDULE AN ON-SITE FIELD INSPECTION.

ANY AND ALL COSTS AND POSSIBLE CONSTRUCTION DELAYS ASSOCIATED WITH SAID FIELD INSPECTION SHALL BE THE RESPONSIBILITY OF THE CUSTOMER AND NOT ROMAN FOUNTAINS.

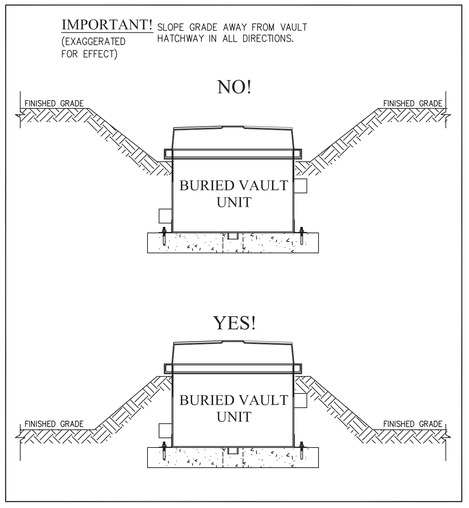
CAUTION

"ALL VAULT DIMENSIONS, PENETRATIONS AND SLEEVE LOCATIONS ARE APPROXIMATE.

IF FINAL INSTALLATION TOLERANCES/ELEVATIONS/LOCATIONS/POSITIONS ARE CRITICAL INSTALLER SHALL CONTACT ROMAN FOUNTAINS PRIOR TO FINALIZING TRENCHING DEPTHS, EXCAVATION AND ANCHOR SLAB POUR FOR CERTIFICATION OF ACTUAL FINISHED VAULT DIMENSIONS."

CAUTION

ANY AND ALL VOIDS, POCKETS AND 'DEAD AIR SPACE' BENEATH A DIRECT BURIAL PUMP VAULT UNIT 'MUST' BE COMPLETELY FILLED IN AND ADEQUATELY COMPACTED PRIOR TO FINAL BACKFILLING AROUND VAULT UNIT. USE A PROPERLY FORMULATED, LOW CEMENTITIOUS CONTENT 'FLOWABLE FILL' MIXTURE OR OTHER FREE FLOWING MATERIAL TO COMPLETELY FILL ALL VOIDS, AS SPECIFIED AND APPROVED BY THE PROJECT ENGINEER.



WARNING:

DIRECT-BURIAL PUMP VAULTS ARE DESIGNED AND CONSTRUCTED FOR 'DRY-HOLE' INSTALLATIONS ONLY AND ARE NOT DESIGNED, CONSTRUCTED, OR SOLD AS WATERTIGHT OR WATERPROOF CONTAINERS AND ARE NOT TO BE INCORPORATED INTO ANY PROJECT WHERE POTENTIAL GROUND WATER SATURATION (WHETHER TEMPORARY OR PERMANENT OR DUE TO RAIN, FLOODS OR IRRIGATION) OR NATURAL GEOLOGICAL HIGH WATER TABLE CONDITIONS MAY EXIST.

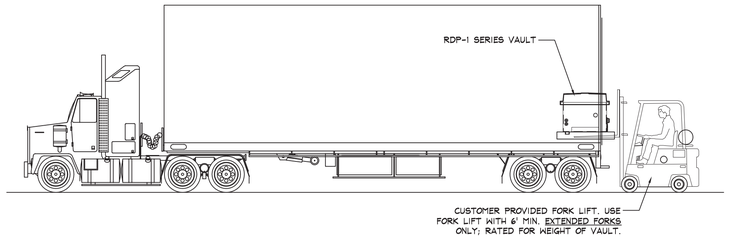
AS SUCH, ROMAN FOUNTAINS IS NOT RESPONSIBLE FOR ANY GROUNDWATER INTRUSION INTO ANY FIBERGLASS EQUIPMENT VAULT UNDER ANY CIRCUMSTANCES WHATSOEVER.

THE SPECIFIER/PURCHASER/INSTALLER/OWNER OF ANY VAULT PRODUCT SHALL MAKE ANY AND ALL DETERMINATIONS AS TO THE SUITABILITY OF SAID PRODUCT FOR THE APPLICATION, INCLUDING GROUND WATER CONDITIONS.

VAULT BEING REMOVED FROM TRUCK

VAULT OFF-LOADED FROM TRUCK

VAULT IN POSITION PROTECTED BY 'CAVE-IN' BARRIER



LIFTING FORK CRANE WITH DOUBLE STRAP SLING

PREPARED FOR:
CITY OF WALTERBORO
SOUTH CAROLINA
CITY OF WALTERBORO
242 HAMPTON STREET
WALTERBORO, SOUTH CAROLINA
29488

95% PLANS

I-95 BUSINESS LOOP PHASES 1B

Walterboro, South Carolina

NOT FOR CONSTRUCTION

DGN: MCT
R/W: CMB
CHK: MB

#	REVISION	DATE	BY

DAVIS & FLOYD
SINCE 1954
WWW.DAVISFLOYD.COM

3209 W. MONTAGUE AVENUE
CHARLESTON, SC 29418
(843) 554-8602

NOT FOR CONSTRUCTION

This drawing copy may have been reproduced at a size different than the original drawing. No responsibility is assumed for the use of incorrect scale. Drawings are not to be scaled.

South Carolina 811 Call 811 Before you Dig

Wood+Partners Inc. WPi
Landscape Architects
Land Planners
1211 Miccosukee Road ■ Tallahassee, FL 32308
850.391.0360 ■ Fax 850.386.1010 ■ www.woodandpartners.com

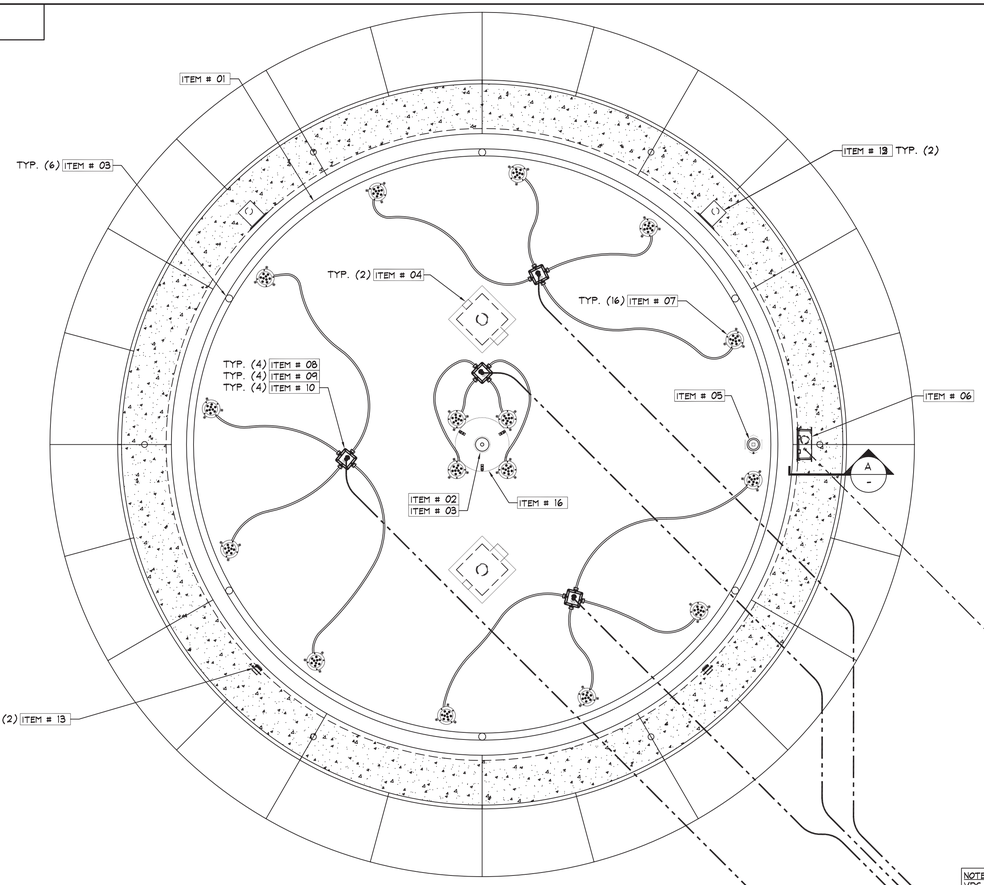
RDP-2H-500 DIRECT BURIAL PUMP VAULT DETAILS #2

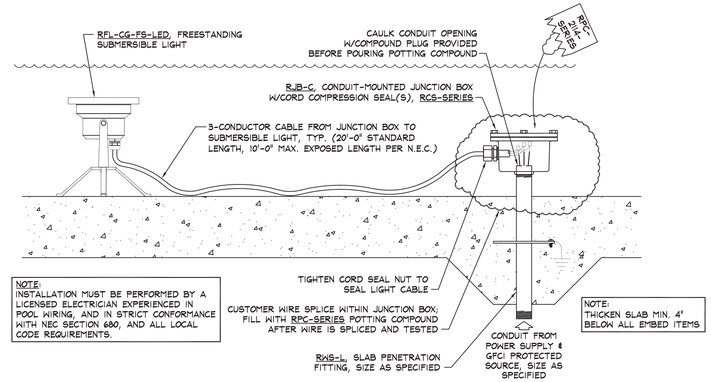
ROMAN FOUNTAINS

SHEET NUMBER
L27

Y:\2015-Jobs\Walterboro (Wood + Partners, Inc) Design A\Drawings\Walterboro(Wood+Partners)Design.dwg 2/11/2016 6:13:41 PM CHRIS

FED. RD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	COLLETON	0041932	02-14011	SC 63		





NOTE:
INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN EXPERIENCED IN POOL WIRING, AND IN STRICT CONFORMANCE WITH NEC SECTION 680, AND ALL LOCAL CODE REQUIREMENTS.

NOTE:
THICKEN SLAB MIN. 4" BELOW ALL EMBED ITEMS

TYPICAL RJB-C TO RFL-CG-FS-LED DETAIL

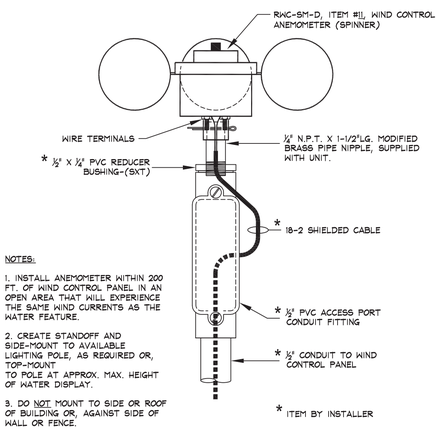
SCALE: NONE (REF. ITEM #'S 07, 08, 09 & 10)

CITY OF WALTERBORO (02/12/16)

Equipment List – By Roman Fountains

Item No.	Qty.	Component Number	Description
01	1	CSR-196 (Special)	16'-4" Dia. Copper Spray Ring.
02	1	RCN-200	2" Cascade Nozzle.
*03	7	RWS-200-S	2" Slab Penetration Fitting.
*04	2	RAVS-1600	16" Sq. Anti-Vortex Plate and Sump Assembly.
*05	1	RFD-300	3" Machined Cast Bronze Floor-Drain Fitting.
*06	1	RCOM-WND	Overflow/Low Water Level Sensor.
07	16	RFL-CG-FS-LED-W	Freestanding LED Submersible Light Fixture.
08	4	RJB-4-100-C	Submersible Junction Box.
*09	4	RWS-100-L	1" Slab Penetration Fitting.
10	4	RPC-2114-D	Potting Compound.
11	1	RWC-A-DUL	Anemometer.
*12	2	RPS-150-FA-WS	Front Access Surface Skimmer W/Waterstop.
*13	2	REF.-150-WS	Adjustable 'Eyeball' Inlet Fitting.
14	1	RDP-2H-750 (Special)	Series 2H Direct Burial Pump Vault. PWR. RQT.: 120/208V. 3-Phase
15	2	RPVC-600	6" PVC Vent Cap.

***NOTE: CONCRETE EMBED ITEM, REQUIRED FOR POUR.**
NOTE: SEE SHEET WFN-2 FOR FULL ITEM DESCRIPTIONS.



NOTES:

1. INSTALL ANEMOMETER WITHIN 200 FT. OF WIND CONTROL PANEL IN AN OPEN AREA THAT WILL EXPERIENCE THE SAME WIND CURRENTS AS THE WATER FEATURE.

2. CREATE STANDOFF AND SIDE-MOUNT TO AVAILABLE LIGHTING POLE, AS REQUIRED OR, TOP-MOUNT TO POLE AT APPROX. MAX. HEIGHT OF WATER DISPLAY.

3. DO NOT MOUNT TO SIDE OR ROOF OF BUILDING OR, AGAINST SIDE OF WALL OR FENCE.

4. DO NOT RUN WIND CONTROL WIRING WITH ANY OTHER CONDUCTORS IN THE SAME CONDUIT.

RWC-SM-DUL, ITEM #11, WIND CONTROL ANEMOMETER (SPINNER) MOUNTING DETAIL

SCALE: NONE

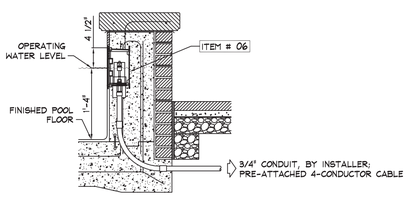
3/4" CONDUIT, BY INSTALLER; PRE-ATTACHED 4-CONDUCTOR CABLE

NOTE: FOR POWER FEEDS TO 12 VDC LED LIGHTS, ELECTRICIAN TO CONFIRM ALL CONDUCTOR SIZES BASED ON ACTUAL CONDUIT/WIRE LENGTH AND ON VOLTAGE DROP CALCULATIONS.

DANGER

FATAL ELECTRICAL SHOCK CAN OCCUR IF FOUNTAIN ELECTRICAL EQUIPMENT IS NOT INSTALLED PROPERLY. THIS EQUIPMENT SHOULD ONLY BE INSTALLED BY QUALIFIED ELECTRICIANS WITH PROPER GROUNDING AND GROUND FAULT INTERUPTION CIRCUIT BREAKERS IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE, SECTION 680, AND ALL OTHER APPLICABLE SECTIONS OF THE CODE.

4 x 1" CONDUIT FOR 12VDC. BASIN LIGHTING (2 #12 +GND. EACH), BY INSTALLER



SECTION 'A'

SCALE: 3/4"=1'-0"

3/4" CONDUIT (18-3 SHIELDED CABLE), BY INSTALLER

ITEM # 11

1" CONDUIT FOR MAIN POWER IN (120/208V. 3-ϕ 4-WIRE FEEDER +GND. 60A.), BY INSTALLER

ITEM # 15 TYP. (2)

ITEM # 14

FOUNTAIN ELECTRICAL PLAN

SCALE: 1/2"=1'-0"

DRAWING SUBMITTAL
NOT FOR CONSTRUCTION
FOR CLIENT REVIEW.

PREPARED FOR:
CITY OF WALTERBORO SOUTH CAROLINA
CITY OF WALTERBORO
242 HAMPTON STREET
WALTERBORO, SOUTH CAROLINA
29488

95% PLANS

I-95 BUSINESS LOOP PHASES 1B

Walterboro, South Carolina

NOT FOR CONSTRUCTION

DGN: MCT
R/W: CMB
CHK: MB

#	REVISION	DATE	BY

DAVIS & FLOYD
SINCE 1954
WWW.DAVISFLOYD.COM
3228 W. MONTAGUE AVENUE
CHARLESTON, SC 29418
(843) 554-8602

NOT FOR CONSTRUCTION

This drawing copy may have been reproduced at a size different than the original drawing. No responsibility is assumed for the use of incorrect scale. Drawings are not to be scaled.

South Carolina 811 Call 811 Before you Dig

Wood+Partners Inc. WPi
Landscape Architects
Land Planners
1211 Miccosukee Road ■ Tallahassee, FL 32308
850.391.0360 ■ Fax 850.386.1010 ■ www.woodandpartners.com

FOUNTAIN ELECTRICAL PLAN

ROMAN FOUNTAINS

SHEET NUMBER
L28

Y:\2015-Jobs\Walterboro (Wood + Partners, Inc) Design A\Drawings\Wood+Partners\Design.dwg 2/11/2016 6:13:41 PM CHRIS

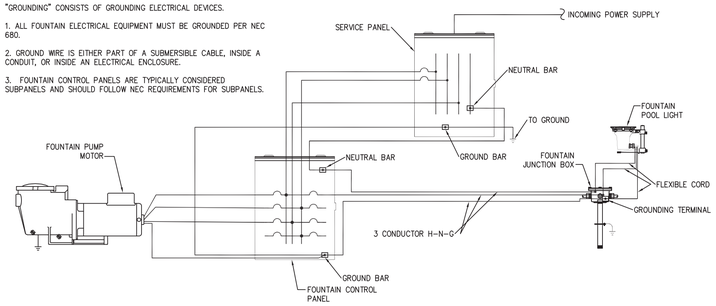
FED. RD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	COLLETON	0041932	02-14011	SC 63		

"GROUNDING" CONSISTS OF GROUNDING ELECTRICAL DEVICES.

1. ALL FOUNTAIN ELECTRICAL EQUIPMENT MUST BE GROUNDED PER NEC 680.

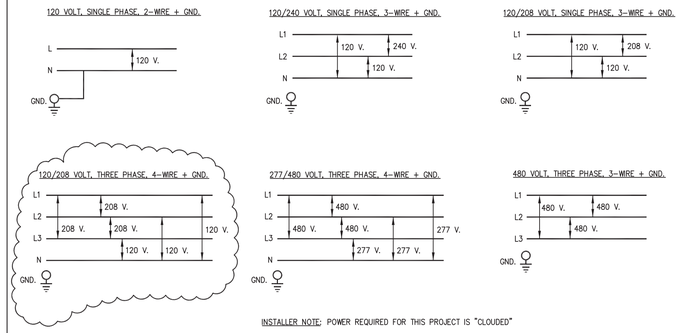
2. GROUND WIRE IS EITHER PART OF A SUBMERSIBLE CABLE, INSIDE A CONDUIT, OR INSIDE AN ELECTRICAL ENCLOSURE.

3. FOUNTAIN CONTROL PANELS ARE TYPICALLY CONSIDERED SUBPANELS AND SHOULD FOLLOW NEC REQUIREMENTS FOR SUBPANELS.



TYPICAL FOUNTAIN "GROUNDING" SCHEMATIC

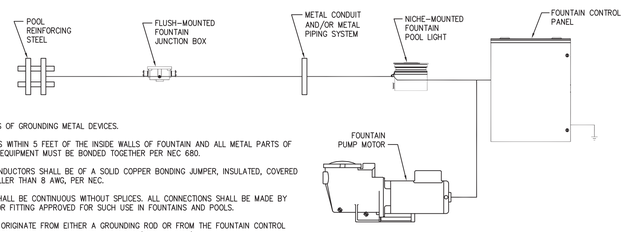
SCALE: NONE



INSTALLER NOTE: POWER REQUIRED FOR THIS PROJECT IS "CLOUDED"

ELECTRICAL POWER SUPPLY OPTIONS

SCALE: NONE



"BONDING" CONSISTS OF GROUNDING METAL DEVICES.

1. ALL METAL PARTS WITHIN 5 FEET OF THE INSIDE WALLS OF FOUNTAIN AND ALL METAL PARTS OF ASSOCIATED METAL EQUIPMENT MUST BE BONDED TOGETHER PER NEC 680.

2. ALL BONDING CONDUCTORS SHALL BE OF A SOLID COPPER BONDING JUMPER, INSULATED, COVERED OR BARE, NOT SMALLER THAN 8 AWG, PER NEC.

3. ALL BONDING SHALL BE CONTINUOUS WITHOUT SPLICES. ALL CONNECTIONS SHALL BE MADE BY EXOTHERMIC WELD OR FITTING APPROVED FOR SUCH USE IN FOUNTAINS AND POOLS.

4. BONDING WIRES ORIGINATE FROM EITHER A GROUNDING ROD OR FROM THE FOUNTAIN CONTROL PANEL (IF PANEL FEED IS WITH A MINIMUM #8 AWG BOND/GROUND WIRE).

5. BONDING WIRES ARE TYPICALLY EXTERNAL FROM CONDUITS BUT COULD ORIGINATE FROM THE FOUNTAIN CONTROL PANEL TO A SUBMERSIBLE JUNCTION BOX, THROUGH A CONDUIT, TO AN INTERNAL BONDING LUG. BUT THEN THE REST OF THE BONDING WIRES SHOULD RUN EXTERNAL BY USE OF JUNCTION BOX EXTERNAL BONDING LUG TO THE POOL REINFORCING STEEL (REBAR) AND TO OTHER POOL METAL DEVICES SUCH AS NICHE LIGHTS.

6. FOUNTAIN CONTROL PANELS ARE TYPICALLY CONSIDERED SUBPANELS AND SHOULD FOLLOW NEC REQUIREMENTS FOR SUBPANELS.

TYPICAL FOUNTAIN "BONDING" SCHEMATIC

SCALE: NONE

RECOMMENDED WIRE COLOR CODE

Color code for conductors for general wiring;
1. Color code conductors insulation as follows:

CONDUCTOR	208-240/120	440-480/277	12-24/AC-DC
Phase A	BLACK (BL)	BROWN (BR)	GRAY (GY), BROWN (BR)
Phase B	RED (RD)	ORANGE (OR)	
Phase C	BLUE (BU)	YELLOW (YL)	
NEUTRAL (COM)	WHITE (WH)		PURPLE (PU), BLUE (BU)
GROUND	GREEN (GRN)	GREEN (GRN)	GREEN (GRN)

2. For conductors #6 AWG or larger, permanent plastic – colored tape may be used to mark conductor insulation. Tape shall cover not less than 2 inches of conductor insulation within enclosure.

CONDUCTOR	DEVICES	LIGHT FIXTURES	SOLENOIDS	PLC-INPUTS	PLC-OUTPUTS
Phase	RED (RD)	BLACK (BL)	BLACK (BL)	YELLOW (YL)	ORANGE (OR), RED (RD)
NEUTRAL (COM)	WHITE (WH)	WHITE (WH)	WHITE (WH)	WHITE (WH)	WHITE (WH)
GROUND	GREEN (GRN)	GREEN (GRN)	GREEN (GRN)	GREEN (GRN)	GREEN (GRN)

EXCERPT FROM 2011 EDITION OF NEC ARTICLE 680 PERTAINING TO DECORATIVE FOUNTAINS

V. Fountains

680.50 General. The provisions of Part I and Part V of this article shall apply to all permanently installed fountains as defined in 680.2. Fountains that have water common to a pool shall additionally comply with the requirements in Part II of this article. Part V does not cover self-contained, portable fountains. Portable fountains shall comply with Parts II and III of Article 422.

680.51 Luminaires, Submersible Pumps, and Other Submersible Equipment.
(A) Ground-Fault Circuit Interrupter. Luminaires, submersible pumps, and other submersible equipment, unless listed for operation at low voltage contact limit or less and supplied by a transformer or power supply that complies with 680.23(A)(2), shall be protected by a ground-fault circuit interrupter.
(B) Operating Voltage. No luminaires shall be installed for operation on supply circuits over 150 volts between conductors. Submersible pumps and other submersible equipment shall operate at 300 volts or less between conductors.
(C) Luminaire Lenses. Luminaires shall be installed with the top of the luminaire lens below the normal water level of the fountain unless listed for above-water locations. A luminaire facing upward shall comply with either (1) or (2):
(1) Have the lens adequately guarded to prevent contact by any person
(2) Be listed for use without a guard
(D) Overheating Protection. Electrical equipment that depends on submersion for safe operation shall be protected against overheating by a low-water cutoff or other approved means when not submerged.
(E) Wiring. Equipment shall be equipped with provisions for threaded conduit entries or be provided with a suitable flexible cord. The maximum length of each exposed cord in the fountain shall be limited to 3.0 m (10 ft). Cords extending beyond the fountain perimeter shall be enclosed in approved wiring enclosures. Metal parts of equipment in contact with water shall be of brass or other approved corrosion-resistant metal.
(F) Servicing. All equipment shall be removable from the water for relamping or normal maintenance. Luminaires shall not be permanently embedded into the fountain structure such that the water level must be reduced or the fountain drained for relamping, maintenance, or inspection.
(G) Stability. Equipment shall be inherently stable or be securely fastened in place.

680.52 Junction Boxes and Other Enclosures.
(A) General. Junction boxes and other enclosures used for other than underwater installation shall comply with 680.24.
(B) Underwater Junction Boxes and Other Underwater Enclosures. Junction boxes and other underwater enclosures shal meet the requirements of 680.52(B)(1) and (B)(2).
(1) Construction.
(a) Underwater enclosures shall be equipped with provisions for threaded conduit entries or compression glands or seals for cord entry.
(b) Underwater enclosures shall be submersible and made of copper, brass, or other approved corrosion-resistant material.
(2) Installation. Underwater enclosure installations shall comply with (a) and (b).
(a) Underwater enclosures shall be filled with an approved potting compound to prevent the entry of moisture.
(b) Underwater enclosures shall be firmly attached to the supports or directly to the fountain surface and bonded as required. Where the junction box is supported only by conduits in accordance with 314.23(E) and (F), the conduits shall be of copper, brass, stainless steel, or other approved corrosion-resistant metal. Where the box is fed by nonmetallic conduit, it shall have additional supports and fasteners of copper, brass, or other approved corrosion-resistant material.

V. Fountains (Cont.)

680.53 Bonding.
All metal piping systems associated with the fountain shall be bonded to the equipment grounding conductor of the branch circuit supplying the fountain.
Informational Note: See 250.122 for sizing of these conductors.

680.54 Grounding.
The following equipment shall be grounded:
(1) Other than listed low-voltage luminaires not requiring grounding, all electrical equipment located within the fountain or within 1.5 m (5 ft) of the inside wall of the fountain
(2) All electrical equipment associated with the recirculating system of the fountain
(3) Panelboards that are not part of the service equipment and that supply any electrical equipment associated with the fountain

680.55 Methods of Grounding.
(A) Applied Provisions. The provisions of 680.21(A), 680.23(B)(3), 680.23(F)(1) and (F)(2), 680.24(F), and 680.25 shall apply.
(B) Supplied by a Flexible Cord. Electrical equipment that is supplied by a flexible cord shall have all exposed non-current-carrying metal parts grounded by an insulated copper equipment grounding conductor that is an integral part of this cord. The equipment grounding conductor shall be connected to an equipment grounding terminal in the supply junction box, transformer enclosure, power supply enclosure, or other enclosure.

680.56 Cord-and-Plug-Connected Equipment.
(A) Ground-Fault Circuit Interrupter. All electrical equipment, including power-supply cords, shall be protected by ground-fault circuit interrupters.
(B) Cord Type. Flexible cord immersed in or exposed to water shall be of a type for extra-hard usage, as designated in Table 400.4, and shall be a listed type with a "W" suffix.
(C) Sealing. The end of the flexible cord jacket and the flexible cord conductor termination within equipment shall be covered with, or encapsulated in, a suitable potting compound to prevent the entry of water into the equipment through the cord or its conductors. In addition, the ground connection within equipment shall be similarly treated to protect such connections from the deteriorating effect of water that may enter into the equipment.
(D) Terminations. Connections with flexible cord shall be permanent, except that grounding-type attachment plugs and receptacles shall be permitted to facilitate removal or disconnection for maintenance, repair, or storage of fixed or stationary equipment not located in any water-containing part of a fountain.

NOTE: For a complete copy of 2011 edition of NEC Article 680 (680.1 through 680.74) please contact:
NFPA
1 Batterymarch Park
Quincy, MA 02169-7471

READ THIS FIRST

"GOOD FAITH INFORMATION" DISCLAIMER NOTICE

ALL DETAILS DEPICTED ON THIS SHEET ARE FURNISHED AS A GENERAL REFERENCE GUIDE ONLY, AS A COURTESY AND IN GOOD FAITH, TO ASSIST THE INSTALLER WITH TYPICAL INSTALLATION METHODS FOR A FOUNTAIN SYSTEM.

ROMAN FOUNTAINS CORPORATION DOES NOT FURNISH ANY COMPONENT ITEM DEPICTED IN ANY DETAIL ON THIS SHEET UNLESS SPECIFICALLY IDENTIFIED WITH A ROMAN FOUNTAINS CORPORATION MODEL NUMBER AND SPECIFICALLY ITEMIZED IN THE FOUNTAIN SYSTEM EQUIPMENT LIST FOUND ON SHEET WEN-2 OF THIS DRAWING SET.

FURTHER, ROMAN FOUNTAINS CORPORATION ASSUMES NO RESPONSIBILITY OR LIABILITY WHATSOEVER FOR THE USE OF THESE DETAILS AND PRODUCTS AND THE INSTALLER IS ADVISED TO REFER TO ARCHITECTS PROJECT SPECIFICATIONS AND PROJECT ENGINEERING DETAILS AND REQUIREMENTS WHICH SHALL TAKE PRECEDENCE OVER ANY DEVICES, INSTALLATION DETAILS, METHODS, OR REQUIREMENTS DEPICTED IN THESE GENERAL GUIDELINES.

INSTALLER IS RESPONSIBLE FOR ANY AND ALL 'CODE AND STANDARD' REQUIREMENTS PERTAINING TO THE INSTALLATION OF ANY AND ALL EQUIPMENT REQUIRED FOR A COMPLETE AND ACCEPTABLE INSTALLATION, WHETHER INDICATED IN THESE GENERAL GUIDELINES OR NOT.

DRAWING SUBMITTAL
NOT FOR CONSTRUCTION
FOR CLIENT REVIEW.

PREPARED FOR:
CITY OF WALTERBORO
CITY OF WALTERBORO
242 HAMPTON STREET
WALTERBORO, SOUTH CAROLINA
29488

95% PLANS
I-95 BUSINESS LOOP
PHASES 1B
Walterboro, South Carolina

NOT FOR CONSTRUCTION

DGN: MCT
R/W: CMB
CHK: MB

#	REVISION	DATE	BY

DAVIS & FLOYD
SINCE 1954
WWW.DAVISFLOYD.COM
3228 W. MONTAGUE AVENUE
CHARLESTON, SC 29418
(843) 534-8602

NOT FOR CONSTRUCTION
This drawing copy may have been reproduced at a size different than the original drawing. No responsibility is assumed for the use of incorrect scale. Drawings are not to be scaled.

South Carolina 811 Call 811 Before you Dig

Wood+Partners Inc. WPi
Landscape Architects
Land Planners
1211 Miccosukee Road ■ Tallahassee, FL 32308
850.391.0360 ■ Fax 850.386.1010 ■ www.woodandpartners.com

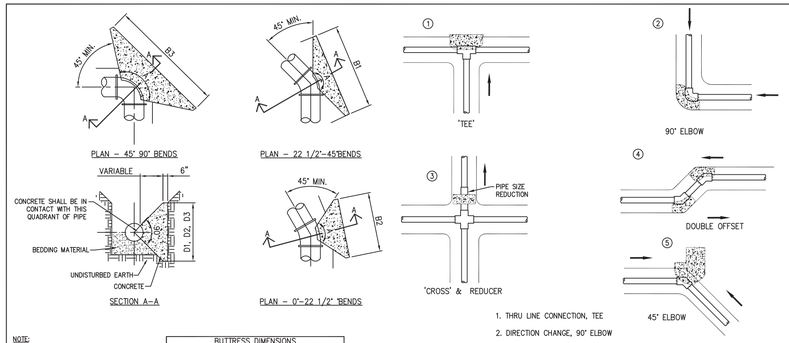
TYPICAL ELECTRICAL DETAILS & ARTICLE 680 NEC REQUIREMENTS

ROMAN FOUNTAINS

SHEET NUMBER
L29

Y:\2015-Jobs\Walterboro (Wood + Partners, Inc) Design A\Drawings\Walterboro(Wood+Partners)Design.dwg 2/11/2016 6:13:41 PM CHRIS

FED. RD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	COLLETON	0041932	02-14011	SC 63		



NOTE:
1. SHAPE OF BACK OF BUTTRESS MAY VARY AS LONG AS POUR IS AGAINST FIRM UNDISTURBED EARTH.
2. DIMENSION "A" SHOULD BE AS LARGE AS POSSIBLE.
3. PLAN FOR 45°-90° BENDS & SECTION A-A SHALL APPLY TO TEES.

BUTTRESS DIMENSIONS						
PIPE SIZE	22 1/2° BEND		45° BEND		90° BEND	
	B1	D1	B2	D2	B3	D3
4"	1'-5"	1'-5"	1'-5"	1'-5"	2'-1"	1'-6"
6"	1'-5"	1'-5"	1'-5"	1'-5"	2'-1"	1'-6"
8"	1'-5"	1'-5"	2'-1"	1'-6"	2'-8"	2'-0"
10"	1'-8"	1'-8"	2'-11"	1'-10"	4'-0"	2'-4"
12"	1'-10"	1'-10"	3'-4"	2'-0"	4'-9"	2'-6"
16"	3'-0"	2'-0"	3'-10"	3'-0"	6'-2"	3'-6"
18"	3'-3"	2'-4"	4'-6"	3'-4"	7'-0"	4'-0"
20"	3'-6"	2'-8"	5'-6"	3'-4"	8'-4"	4'-0"
24"	4'-4"	3'-0"	6'-10"	3'-10"	9'-8"	5'-0"

PROVIDE AT BURIED WATER SERVICE PIPING BENDS

WATER HAMMER:
FOUNTAIN PIPING SYSTEMS SHOULD BE DESIGNED AND CONSTRUCTED TO AVOID EXCESSIVE WATER HAMMER. WATER HAMMER CAN CAUSE DAMAGE AND FAILURE TO PIPES, VALVES AND FITTINGS WITHIN THE PIPING SYSTEM.

THIS IS A GENERAL GUIDELINE ONLY, CONTACT PROJECT ENGINEER FOR ACTUAL THRUST BLOCKING SPECIFICATIONS AND INSTRUCTIONS FOR THIS PROJECT.

1. THRU LINE CONNECTION, TEE
2. DIRECTION CHANGE, 90° ELBOW
3. CROSS AND REDUCER
4. DIRECTION CHANGE-OFFSET
5. DIRECTION CHANGE-45° ELBOW

INDICATES FLOW DIRECTION

THRUST BLOCKING:
WATER UNDER PRESSURE EXERTS THRUST FORCES IN PIPING SYSTEMS. THRUST BLOCKING SHOULD BE PROVIDED, AS NECESSARY AND REQUIRED BY PROJECT ENGINEER, TO PREVENT MOVEMENT OF PIPE OR APPURTENANCES IN RESPONSE TO THRUST. THRUST BLOCKING IS RECOMMENDED WHEREVER THE PIPELINE:

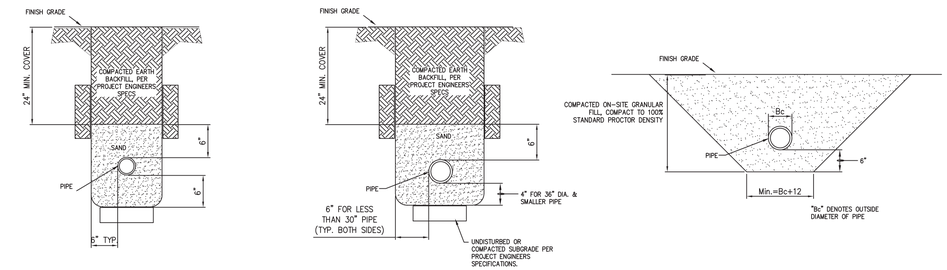
* CHANGES DIRECTION (E.G., TEES, BENDS, ELBOWS, AND CROSSES)
* CHANGES SIZE AT REDUCERS/INCREASERS/BUSHINGS
* STOPS AS IT DEAD ENDS

SIZE AND TYPE OF THRUST BLOCKING DEPENDS ON:

* MAXIMUM SYSTEM PRESSURE
* PIPE SIZE & PIPE MATERIAL (PVC, COPPER, STEEL, ETC.)
* APPURTENANCE SIZE
* TYPE OF FITTINGS OR METHODS USED TO CONNECT/JOIN PIPING
* LINE PROFILE (HORIZONTAL OR VERTICAL BENDS)
* SOIL TYPE

TYPICAL "THRUST BLOCKING" FOR FOUNTAIN SYSTEM PIPING

SCALE: NONE



3" & SMALLER PIPE-TRENCH DETAIL
SCALE: NONE

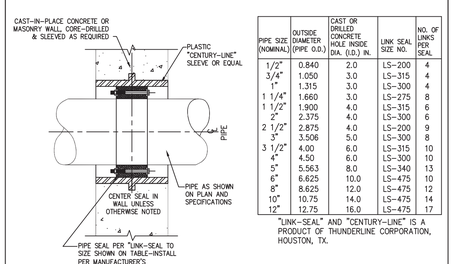
4" & LARGER PIPE-TRENCH DETAIL
SCALE: NONE

ALTERNATE PIPETRENCH DETAIL
SCALE: NONE

PIPING INSTALLATION NOTE:
ALL PIPING RELATED TO THE INSTALLATION OF THE FOUNTAIN SYSTEM(S) SHALL BE INSTALLED IN PARALLEL RUNS WITH ADEQUATE SPACE AND PROPER SUPPORT AND BACKFILL OVER, UNDER AND BETWEEN PIPE RUNS. PIPING SHALL NOT CRISS-CROSS AND SHALL NOT BE BUNDLED OR STACKED TOGETHER, OR MAKE CONTACT WITH ADJACENT PIPING. ELECTRICAL CONDUITS SHALL NOT BE RUN IN SAME TRENCH AS FOUNTAIN PIPING. PROJECT CIVIL ENGINEER IS RESPONSIBLE FOR, AND SHALL HAVE FINAL AUTHORITY OVER ALL PIPE INSTALLATION MEANS METHODS AND PRACTICES, INCLUDING PROPER BURIAL DEPTHS FOR THE PROJECT LOCATION.

TYPICAL "TRENCH & BACKFILL" DETAILS FOR FOUNTAIN SYSTEM PIPING

SCALE: NONE

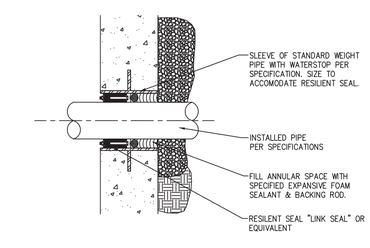


PIPE SIZE (NOMINAL)	OUTSIDE DIAMETER (PIPE O.D.)	CAST OR DRILLED CONCRETE HOLE INSIDE DIA. (I.D.) IN.	LINK SEAL SIZE NO.	NO. OF LINKS PER SEAL
1/2"	0.840	2.0	LS-200	4
3/4"	1.050	3.0	LS-315	4
1"	1.315	3.0	LS-300	4
1 1/4"	1.660	3.0	LS-275	8
1 1/2"	1.900	4.0	LS-315	6
2"	2.375	4.0	LS-300	6
2 1/2"	2.875	4.0	LS-200	9
3"	3.506	5.0	LS-300	8
3 1/2"	4.00	6.0	LS-315	10
4"	4.50	6.0	LS-300	10
5"	5.563	8.0	LS-340	13
6"	6.625	10.0	LS-475	10
8"	8.625	12.0	LS-475	12
10"	10.75	14.0	LS-475	14
12"	12.75	16.0	LS-475	17

"LINK-SEAL" AND "CENTURY-LINE" IS A PRODUCT OF THUNDERLINE CORPORATION, HOUSTON, TX.

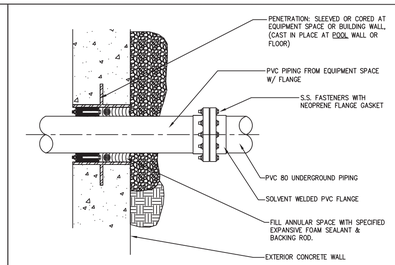
PIPE SEAL/SLEEVE SIZE TABLE

SCALE: NONE — INSTALLATON DETAIL (TYP.)



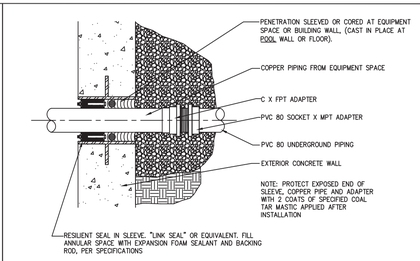
PENETRATION, SLEEVED (EXTERIOR WALL)

SCALE: NONE — INSTALLATON DETAIL (TYP.)



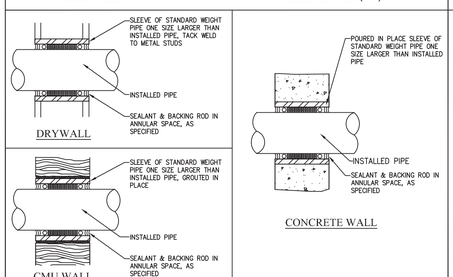
UNDERGROUND PVC PIPING TRANSITION

SCALE: NONE — INSTALLATON DETAIL (TYP.) (EXTERIOR WALL)



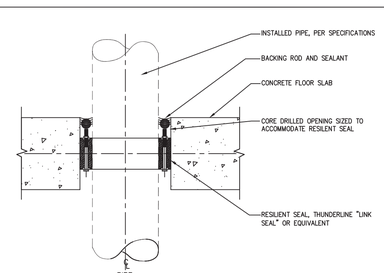
UNDERGROUND PIPING TRANSITION

SCALE: NONE — INSTALLATON DETAIL (TYP.) (THREADED)



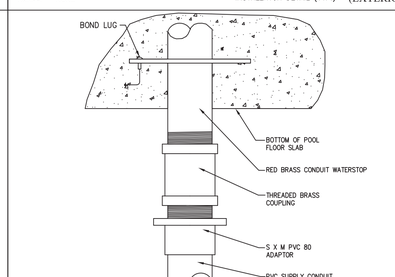
PENETRATION, SLEEVED (INTERIOR WALL OR FLOOR)

SCALE: NONE — INSTALLATON DETAIL (TYP.)



PENETRATION, CORE DRILLED

SCALE: NONE — INSTALLATON DETAIL (TYP.)



CONDUIT WATER STOP TRANSITION

SCALE: NONE — INSTALLATON DETAIL (TYP.)

READ THIS FIRST

"GOOD FAITH INFORMATION" DISCLAIMER NOTICE

ALL DETAILS DEPICTED ON THIS SHEET ARE FURNISHED AS A GENERAL REFERENCE GUIDE ONLY, AS A COURTESY AND IN GOOD FAITH, TO ASSIST THE INSTALLER WITH TYPICAL INSTALLATION METHODS FOR A FOUNTAIN SYSTEM.

ROMAN FOUNTAINS CORPORATION DOES NOT FURNISH ANY COMPONENT ITEM DEPICTED IN ANY DETAIL ON THIS SHEET UNLESS SPECIFICALLY IDENTIFIED WITH A ROMAN FOUNTAINS CORPORATION MODEL NUMBER AND SPECIFICALLY ITEMIZED IN THE FOUNTAIN SYSTEM EQUIPMENT LIST FOUND ON SHEET WFN-2 OF THIS DRAWING SET.

FURTHER, ROMAN FOUNTAINS CORPORATION ASSUMES NO RESPONSIBILITY OR LIABILITY WHATSOEVER FOR THE USE OF THESE DETAILS AND PRODUCTS AND THE INSTALLER IS ADVISED TO REFER TO ARCHITECTS PROJECT SPECIFICATIONS AND PROJECT ENGINEERING DETAILS AND REQUIREMENTS WHICH SHALL TAKE PRECEDENCE OVER ANY DEVICES, INSTALLATION DETAILS, METHODS, OR REQUIREMENTS DEPICTED IN THESE GENERAL GUIDELINES.

INSTALLER IS RESPONSIBLE FOR ANY AND ALL 'CODE AND STANDARD' REQUIREMENTS PERTAINING TO THE INSTALLATION OF ANY AND ALL EQUIPMENT REQUIRED FOR A COMPLETE AND ACCEPTABLE INSTALLATION, WHETHER INDICATED IN THESE GENERAL GUIDELINES OR NOT.

DRAWING SUBMITTAL
NOT FOR CONSTRUCTION
FOR CLIENT REVIEW.

PREPARED FOR:
CITY OF WALTERBORO
CITY OF WALTERBORO
242 HAMPTON STREET
WALTERBORO, SOUTH CAROLINA
29488

95% PLANS
I-95 BUSINESS LOOP
PHASES 1B
Walterboro, South Carolina

NOT FOR CONSTRUCTION

DGN: MCT
R/W: CMB
CHK: MB

#	REVISION	DATE	BY

DAVIS & FLOYD
SINCE 1954
WWW.DAVIS-FLOYD.COM
3220 W. MONTAGUE AVENUE
CHARLESTON, SC 29418
(843) 554-8602

NOT FOR CONSTRUCTION
This drawing copy may have been reproduced at a size different than the original drawing. No responsibility is assumed for the use of incorrect scale. Drawings are not to be scaled.

South Carolina 811 Call 811 Before you Dig

Wood+Partners Inc. WPi
Landscape Architects
Land Planners
1211 Miccosukee Road ■ Tallahassee, FL 32308
850.391.0360 ■ Fax 850.386.1010 ■ www.woodandpartners.com

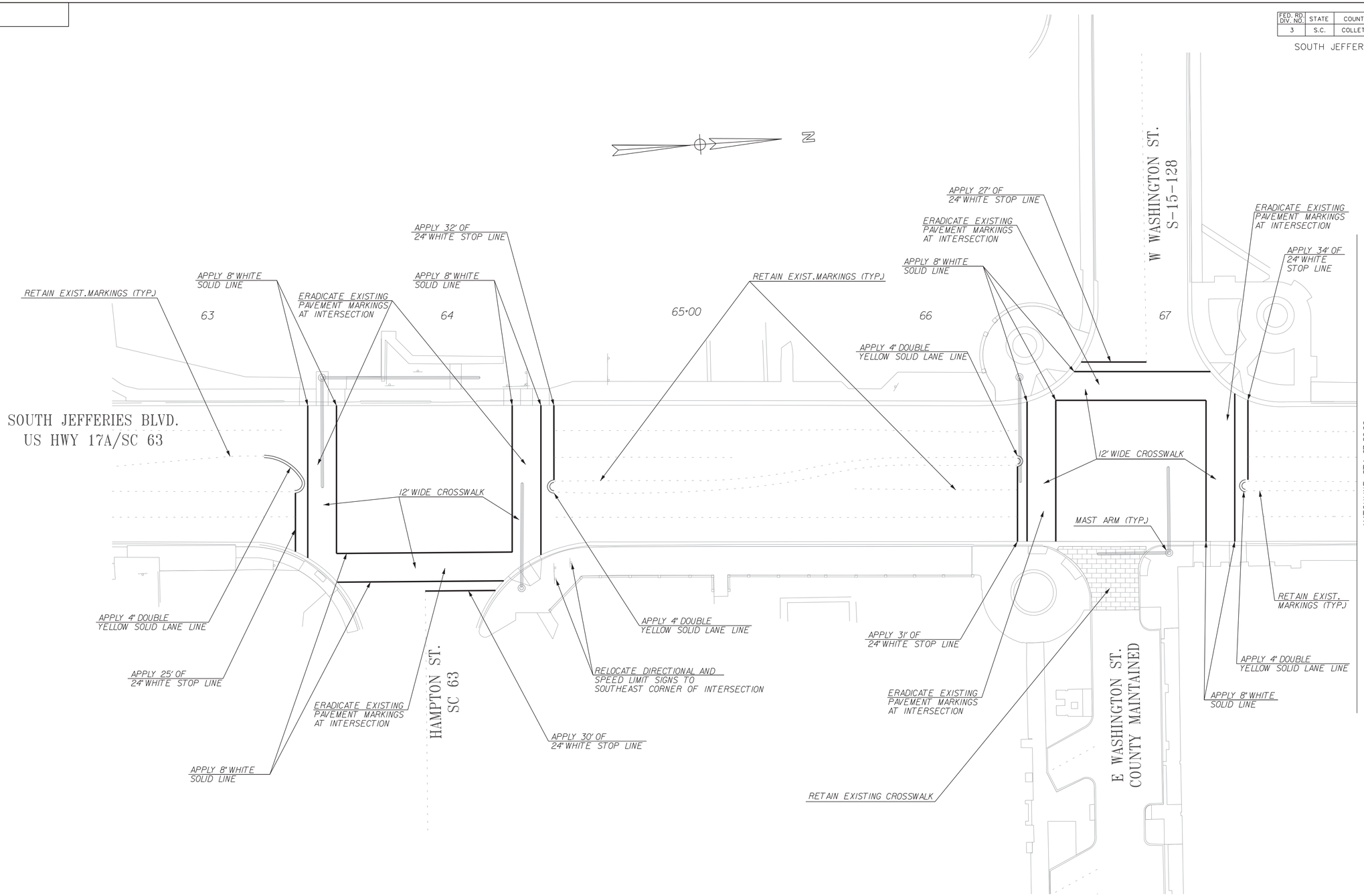
TYPICAL PIPING AND PENETRATION DETAILS

ROMAN FOUNTAINS

SHEET NUMBER
L30

Y:\2015-Jobs\Walterboro (Wood + Partners, Inc) Design A\Drawings\Walterboro\Wood+Partners\Design.dwg 2/11/2016 6:13:41 PM CHRIS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	COLLETON	0041932	31588.00	SC 63	PM01	



NOTES:

1. RETAIN EXISTING SIGNS UNLESS OTHERWISE SPECIFIED ON PLANS.

DAVIS & FLOYD

SINCE 1954

WWW.DAVISFLOYD.COM

3729 W. MONTAGUE AVENUE
CHARLESTON, SC 29418
(843) 554-8602

This drawing copy may have been reproduced at a size different than the original drawing. No responsibility is assumed for the use of incorrect scale. Drawings are not to be scaled.

South Carolina 811 Call 811 Before you Dig

Wood+Partners Inc. WPi
Landscape Architects
Land Planners
612 S Copeland Street ■ Tallahassee, FL 32304
850.391.0360 ■ Fax 850.386.1010 ■ www.woodandpartners.com

0 20 40 60 80
SCALE: 1"=20'

PREPARED FOR:
CITY OF WALTERBORO
242 HAMPTON STREET
WALTERBORO, SOUTH CAROLINA 29488

I-95 BUSINESS LOOP PHASE 1B PAVEMENT MARKINGS SHEET

Walterboro, South Carolina

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 20214 8/3/2018 GEORGE TILLEY

SOUTH CAROLINA NOLLY JOHN DAVIS & FLOYD, INC. No. C00538 CERTIFICATE OF AUTHORIZATION

DGN: LEK
R/W:
CHK: GTB

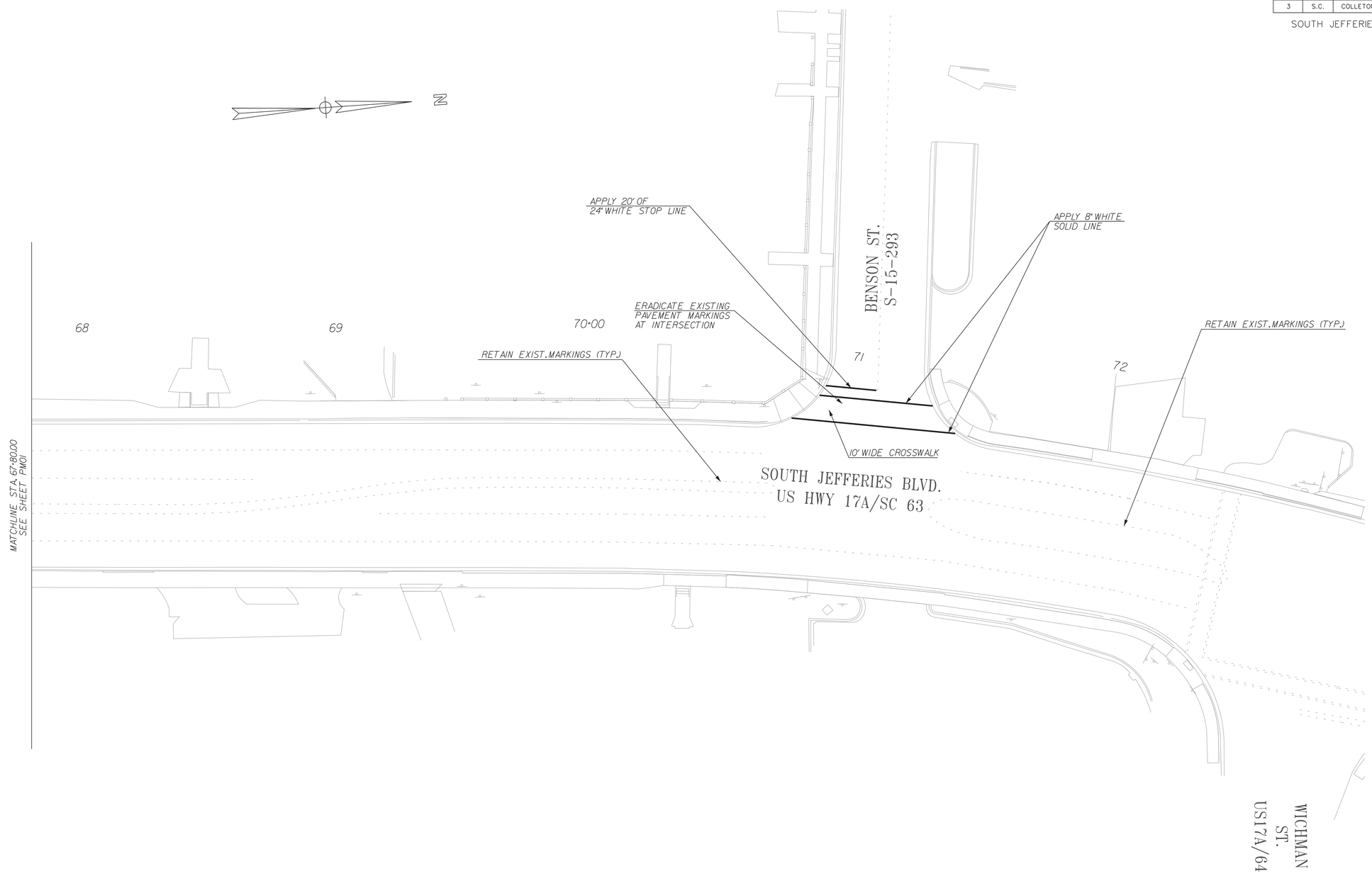
#	REVISION	DATE	BY

SHEET NUMBER
PM01

PLOTTED: 8/3/2018 11:40:27 AM FILE NAME: \\CHS-FS\Data\Jobs\Even\31588-00\CV_dgn\plnsht-Phase 1B (1B)\Federal\31588-00-1B-PM01.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	COLLETON	0041932	31588.00	SC 63	PM02	

SOUTH JEFFERIES BLVD



NOTES:

1. RETAIN EXISTING SIGNS UNLESS OTHERWISE SPECIFIED ON PLANS.

PREPARED FOR:

CITY OF WALTERBORO
242 HAMPTON STREET
WALTERBORO, SOUTH CAROLINA 29488

I-95 BUSINESS LOOP PHASE 1B PAVEMENT MARKINGS SHEET

Walterboro, South Carolina

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 20214 8/3/2018 GEORGE TILLEY

SOUTH CAROLINA HOLLYWOOD DAVIS & FLOYD, INC. No. C00538 CERTIFICATE OF AUTHORIZATION

DGN: LEK
R/W:
CHK: GTB

#	REVISION	DATE	BY

SHEET NUMBER
PM02

DAVIS & FLOYD
SINCE 1954
WWW.DAVISFLOYD.COM

3279 MONTAGUE AVENUE
CHARLESTON, SC 29418
(843) 554-8602

This drawing copy may have been reproduced at a size different than the original drawing. No responsibility is assumed for the use of incorrect scale. Drawings are not to be scaled.

South Carolina 811 Call 811 Before you Dig

Wood+Partners Inc. WPi
Landscape Architects
Land Planners
612 S Copeland Street ■ Tallahassee, FL 32304
850.391.0360 ■ Fax 850.386.1010 ■ www.woodandpartners.com

0 20 40 60 80
SCALE: 1"=20'

PLOTTED: 8/3/2018 11:40:30 AM FILE NAME: \\CHS-FS1\Data\Jobs\Even\31588-00\CV_dgn\plnsht-Phase 1B (1B)\Federal\31588-00-1B1-PM02.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	COLLETON	0041932	31588.00	SC 63	TS1	

SIGNAL HEAD DISPLAY CHART

HEAD NUMBER	2	4	4,5con	5,6F	6	4P	6P
LENS	R Y G	R Y G	R Y G	R Y	R Y G		
PHASE	2	4	4,5	5,OLC	6	4P	6P
SIZE	12"	12"	12"	12"	12"	16"	16"
QUANTITY	2	1	1	1	2	2	2

EQUIPMENT INFORMATION

CONTROLLER	CONTRACTOR SUPPLIED 2070L
CABINET	CONTRACTOR SUPPLIED 332A
CABINET MOUNT	CONCRETE BASE
PHASES USED	2,4,5,6,4P,6P
OVERLAPS	OLA=_____ , OLB=_____ , OLC=Ø5 + Ø6 (FYA) , OLD=_____

PEDESTRIAN SIGNALS: EXT. P PROP. P W/ACT. & SIGN EXT. PROP.

VEHICLE SIGNALS: EXT. PROP.

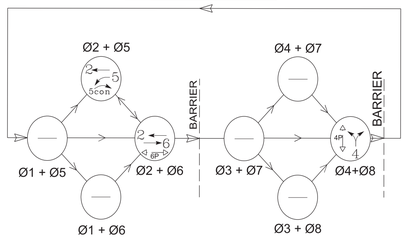
METAL POLES AS NECESSARY: EXT. PROP. M

WOOD POLES AS NECESSARY: EXT. PROP. W

NOTES:

1. ALL PEDESTRIAN SIGNAL HEADS SHALL BE 'COUNTDOWN' HEADS.
2. INSTALL BACKPLATES WITH RETROREFLECTIVE BORDERS ON ALL VEHICLE SIGNAL HEADS.
3. PEDESTRIAN PUSH BUTTON LIGHTS SHALL BE LATCHING.
4. PUSH BUTTONS SHALL BE WITHIN 18" OF SIDEWALK.

NEMA PHASING



NOTE: ACTUATED PHASES HAVING NO CALL, SHALL BE SKIPPED

* N-S STREET COORDINATED

FLASHING OPERATION

NOTES:

1. THE LOCATION OF CONDUIT, JUNCTION BOXES, CABINETS, AND TRAFFIC SIGNAL POLES SHOWN ON THE PLAN ARE APPROXIMATE. THE CONTRACTOR SHALL CONTACT '811' AND ANY OTHER UTILITY COMPANIES NECESSARY TO VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES BEFORE DIGGING.
2. ALL EQUIPMENT, MATERIALS, AND WORKMANSHIP SHALL MEET THE STANDARDS OUTLINED IN THE MUTCD (LATEST EDITION), SCDOT STANDARD DRAWINGS, AND THE SCDOT TRAFFIC SIGNAL SPECIFICATIONS. ALL TRAFFIC SIGNAL EQUIPMENT AND MATERIALS REMOVED DURING THIS PROJECT SHALL BE RETURNED TO THE SCDOT OR DISPOSED OF AS DIRECTED BY THE ENGINEER.
3. THE CONTRACTOR IS REQUIRED TO MAINTAIN THE TRAFFIC SIGNAL OPERATION AT ALL TIMES DURING CONSTRUCTION OF THIS PROJECT. ALL COSTS FOR TEMPORARY SIGNAL EQUIPMENT AND TEMPORARY ADJUSTMENT OF THE TRAFFIC SIGNAL EQUIPMENT SHALL BE INCLUDED IN THE LINE ITEM BID FOR "TEMPORARY ADJUSTMENT OF TRAFFIC SIGNAL EQUIPMENT"
4. DISTRICT 6 SIGNAL SHOP MUST BE CONTACTED PRIOR TO THE START OF ANY WORK.
5. THE CONTRACTOR SHALL OBTAIN REQUIRED SOIL INFORMATION AND DESIGN THE POLE FOUNDATIONS AS PART OF THE UNIT BID PRICE FOR THE MAST ARMS. THE CONTRACTOR SHALL VERIFY THAT THE SIGNAL POLE FOUNDATION WILL NOT CONFLICT WITH EXISTING UNDERGROUND UTILITIES PRIOR TO ORDERING TRAFFIC SIGNAL MAST ARMS. ANY DEVIATIONS TO THE SIGNAL POLE FOUNDATION LOCATION MAY REQUIRE MODIFICATIONS TO THE MAST ARM LENGTHS.
6. POWER FOR LUMINAIRES SHALL BE PROVIDED ON A SEPARATE CIRCUIT AND METER FROM THE TRAFFIC SIGNAL.

SIGNAL DISPLAY SEQUENCE CHART

G-GREEN
Y-YELLOW
R-RED
→G, ARROW
→Y, ARROW
→FY, FLASHING YELLOW ARROW
→R, ARROW
W-WALK **
DW-DON'T WALK

PHASE ON (A)	NON-CONFLICTION PHASE (B)	CONFLICTING PHASE *
1	5, 6, 6P	2,3,4,7, 8, 2P, 4P, 8P
2	5,6, 2P, 6P	1,3,4, 7, 8, 4P, 8P
3	7, 8, 8P	1,2,4, 5,6, 2P, 4P, 6P
4	7, 8, 4P, 8P	1,2,3,5, 6, 2P, 6P
5	1, 2, 2P	3,4, 6, 7, 8, 4P, 6P, 8P
6	1,2, 2P, 6P	3,4, 5, 7, 8,4P, 8P
7	3, 4, 4P,	1,2, 5, 6, 8, 2P, 6P
8	3, 4, 4P, 8P	1,2, 5, 6, 7, 2P, 6P

'C' = COORDINATE Ø2 : Ø6

NOTE A; ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE OMITTED.
NOTE B; WHEN ONE PHASE IS ON ALONE, ANY/NON-CONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL (SEE CHART).
* CONFLICTING PHASES REQUIRE A CLEARANCE INTERVAL.

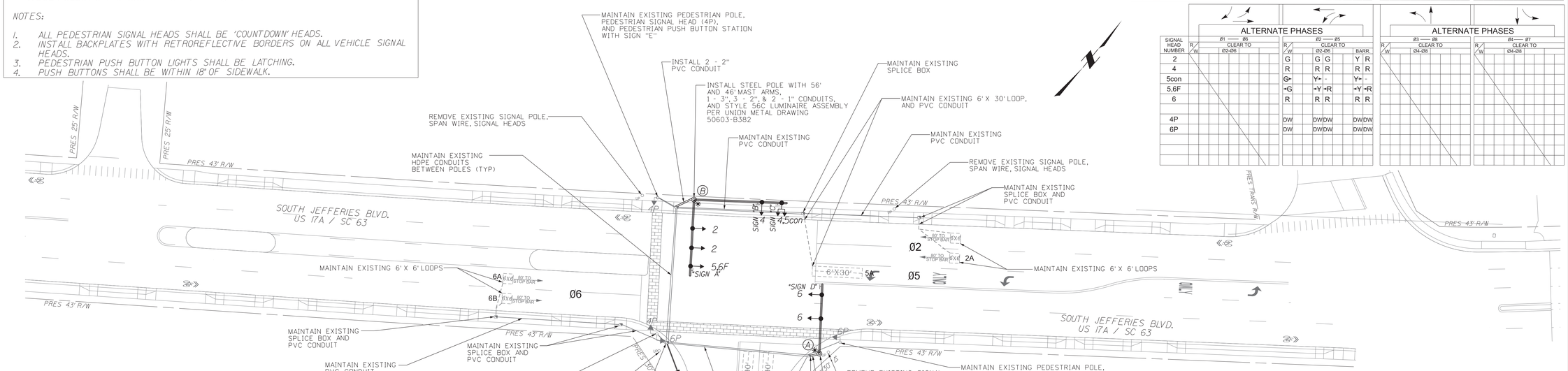
** WHEN CALLED, DISPLAY SOLID 'WALKING PERSON' AND TIMES OUT WALK TIMING; THEN DISPLAY'S FLASHING 'UPRAISED HAND' AND TIMES WALK CLEARANCE (DON'T WALK TIMING), THEN DISPLAYS A SOLID 'UPRAISED HAND'.

SIGNAL HEAD NUMBER	Ø1 — Ø5 R / W	Ø1-Ø6	Ø2-Ø5	Ø2-Ø6	BARR.	Ø2 — Ø6 R / W	Ø2-Ø5	BARR.	Ø3 — Ø7 R / W	Ø3-Ø8	Ø4-Ø7	Ø4-Ø8	BARR.	4P Ø4 R / W	BARR.
2	Y					G	G G	Y R						R	R R
4	R					R	R R	R R						G	Y R
5con	-					-	- -	- -						-	-
5,6F	→Y					→FY	→FY →FY	→Y →R						→R	→R →R
6	Y					G	Y R	Y R						R	R R
4P	-					DW	DW DW	DW DW						W	DW DW
6P	-					W	DW DW	DW DW						DW	DW DW

BARRIER

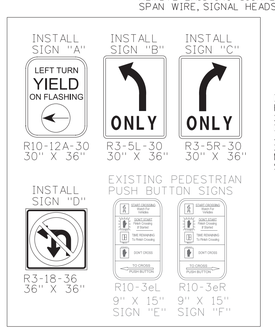
ALTERNATE PHASES

SIGNAL HEAD NUMBER	Ø1 — Ø6 R / W	Ø2-Ø6	Ø2 — Ø5 R / W	Ø2-Ø6	BARR.	Ø3 — Ø8 R / W	Ø4-Ø8	Ø4 — Ø7 R / W	Ø4-Ø8
2			G	G G	Y R				
4			R	R R	R R				
5con			G	Y -	Y -				
5,6F			→G	→Y →R	→Y →R				
6			R	R R	R R				
4P			DW	DW DW	DW DW				
6P			DW	DW DW	DW DW				



SIGNAL TIMINGS

INTERVAL	PHASE 1	2	3	4	5	6	7	8
WALK	- - -	- - -	- - -	7.0	- - -	7.0	- - -	- - -
DON'T WALK	- - -	- - -	- - -	20	- - -	32	- - -	- - -
MIN INITIAL	- - -	15	- - -	8.0	8.0	15	- - -	- - -
MAX INITIAL	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
ADD/VEH	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
VEH EXT	- - -	3.0	- - -	3.5	3.0	3.0	- - -	- - -
TIM BFR REDUC	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
TIME TO REDUC	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
MIN GAP	- - -	3.0	- - -	3.5	3.0	3.0	- - -	- - -
MAX LIMIT	- - -	60	- - -	25	15	60	- - -	- - -
MAXIMUM 2	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
YELLOW	- - -	4.0	- - -	4.0	4.0	4.0	- - -	- - -
RED CLEAR	- - -	2.9	- - -	3.2	2.9	2.9	- - -	- - -

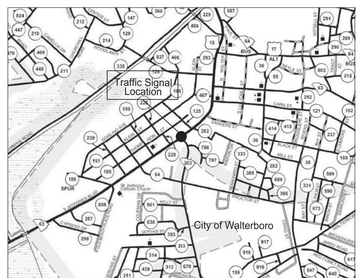


POLE CHART

POLE	NORTHING	EASTING	MAST ARM SPAN LENGTH
A	387665.7536	2101375.9137	42'
B	387689.2672	2101259.1473	56' / 46'

LOOP DETECTOR INSTALLATION CHART

PHASE/ LOOP LTR#	DETECTOR AMP NO.	DETECTOR CHAN NO.	WIRED TO PHASE(S)	LOCK X	NON-LOCK X	PULSE X	PRES X	OPERATION DELAY SEC	OPERATION EXT SEC	SPECIAL FEATURES TIME OF DAY-TOD, SWITCHING, etc.	LOOP DESIGN SIZE _X_	NO. OF TURNS	DIST. FROM ℄
2A			2	X		X					6'x6'	4	80'
2B			2	X		X					6'x6'	4	80'
4A			4		X	X				QUADRUPOLE	6'x30'	2-4-2	-2'
4B			4		X	X	15			QUADRUPOLE	6'x30'	2-4-2	-2'
5A			5		X	X				QUADRUPOLE	6'x30'	2-4-2	-2
6A			6	X		X					6'x6'	4	80'
6B			6	X		X					6'x6'	4	80'



ROUTE NUMBER	Jefferies Boulevard		SC 303
APPROACH DIRECTION	NB	SB	WB
SIGNAL DESIGN SPEED	35	35	35
GRADE (%)	-1.1	1.8	0.0*

* ESTIMATED

PREPARED FOR:

CITY OF WALTERBORO
242 HAMPTON STREET
WALTERBORO, SCOTT CAROLINA 29488

I-95 BUSINESS LOOP PHASE 1B

SOUTH JEFFERIES BLVD. & GREEN POND HWY

Walterboro, South Carolina

Digitally signed by Bryan Webb
Date: 2018.08.03 10:54:41 -04'00'

DGN: LMT
R/W:
CHK: BDW

#	REVISION	DATE	BY

SHEET NUMBER
TS1

DAVIS & FLOYD
SINCE 1954

3220 W. MONTAGUE AVENUE
CHARLESTON, SC 29418
(843) 554-8602

PRINTED ON RECYCLED PAPER WWW.DAVISFLOYD.COM

This drawing copy may have been reproduced at a size different than the original drawing. No responsibility is assumed for the use of incorrect scale. Drawings are not to be scaled.

South Carolina 811 Call 811 Before you Dig

Wood+Partners Inc. WPi
Landscape Architects
Land Planners
612 S Copeland Street ■ Tallahassee, FL 32304
850.391.0360 ■ Fax 850.386.1010 ■ www.woodandpartners.com

0 30 60 90 120
SCALE: 1" = 30'

PLOTTED: 8/3/2018 10:48:51 AM FILE NAME: \\CHS-FS\Data\Jobs\Even\31588-00\CV_dgn\plnsht-Phase 1B (1B)\Federal\31588-00_1B_TS1_Jeffries-Greenpond_Phase1B.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	COLLETON	0041932	31588.00	SC 63	TS2	

SIGNAL HEAD DISPLAY CHART

HEAD NUMBER	2	2F	5,6F	6	8	2P	6P	8P
LENS	R Y G	R Y F	R Y F G	R Y G	R Y G			
PHASE	2	OLA	5,OLC	6	8	2P	6P	8P
SIZE	12"	12"	12"	12"	12"	16"	16"	16"
QUANTITY	2	1	1	2	2	2	2	4

EQUIPMENT INFORMATION

CONTROLLER	CONTRACTOR SUPPLIED 2070L
CABINET	CONTRACTOR SUPPLIED 332A
CABINET MOUNT	CONCRETE BASE
PHASES USED	2,5,6,8,2P,6P,8P
OVERLAPS	OLA=Ø2(FYA), OLB=_____ , OLC=Ø5 + Ø6 (FYA) , OLD=____

PEDESTRIAN SIGNALS: EXT. P PROP. P W/ACT. & SIGN EXT. PROP.

VEHICLE SIGNALS: EXT. PROP.

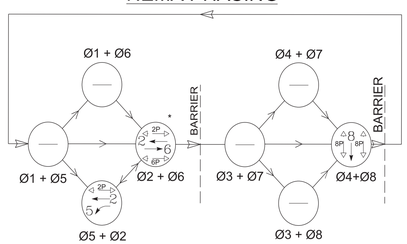
METAL POLES AS NECESSARY: EXT. ○ PROP. ●M

WOOD POLES AS NECESSARY: EXT. PROP. ●W

NOTES:

1. ALL PEDESTRIAN SIGNAL HEADS SHALL BE 'COUNTDOWN' HEADS.
2. INSTALL BACKPLATES WITH RETROREFLECTIVE BORDERS ON ALL VEHICLE SIGNAL HEADS.
3. PEDESTRIAN PUSH BUTTON LIGHTS SHALL BE LATCHING.
4. PUSH BUTTONS SHALL BE WITHIN 18" OF SIDEWALK.

NEMA PHASING



NOTE: ACTUATED PHASES HAVING NO CALL, SHALL BE SKIPPED

* N/S STREET COORDINATED

FLASHING OPERATION

NOTES:

1. THE LOCATION OF CONDUIT, JUNCTION BOXES, CABINETS, AND TRAFFIC SIGNAL POLES SHOWN ON THE PLAN ARE APPROXIMATE. THE CONTRACTOR SHALL CONTACT "811" AND ANY OTHER UTILITY COMPANIES NECESSARY TO VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES BEFORE DIGGING.
2. ALL EQUIPMENT, MATERIALS, AND WORKMANSHIP SHALL MEET THE STANDARDS OUTLINED IN THE MUTCD (LATEST EDITION), SCDOT STANDARD DRAWINGS, AND THE SCDOT TRAFFIC SIGNAL SPECIFICATIONS. ALL TRAFFIC SIGNAL EQUIPMENT AND MATERIALS REMOVED DURING THIS PROJECT SHALL BE RETURNED TO THE SCDOT OR DISPOSED OF AS DIRECTED BY THE ENGINEER.
3. THE CONTRACTOR IS REQUIRED TO MAINTAIN THE TRAFFIC SIGNAL OPERATION AT ALL TIMES DURING CONSTRUCTION OF THIS PROJECT. ALL COSTS FOR TEMPORARY SIGNAL EQUIPMENT AND TEMPORARY ADJUSTMENT OF THE TRAFFIC SIGNAL EQUIPMENT SHALL BE INCLUDED IN THE LINE ITEM BID FOR "TEMPORARY ADJUSTMENT OF TRAFFIC SIGNAL EQUIPMENT".
4. THE SIGNAL CONTRACTOR SHALL COORDINATE THE INSTALLATION OF NEW LOOPS WITH THE PAVEMENT MARKING CONTRACTOR.
5. DISTRICT 6 SIGNAL SHOP MUST BE CONTACTED PRIOR TO THE START OF ANY WORK.
6. CONDUIT AND SPLICE BOXES FOR THE SETBACK LOOPS SHOULD BE PLACED IN THE NEW SIDEWALK PRIOR TO POURING CONCRETE.
7. THE CONTRACTOR SHALL OBTAIN REQUIRED SOIL INFORMATION AND DESIGN THE POLE FOUNDATIONS AS PART OF THE UNIT BID PRICE FOR THE MAST ARMS. THE CONTRACTOR SHALL VERIFY THAT THE SIGNAL POLE FOUNDATION WILL NOT CONFLICT WITH EXISTING UNDERGROUND UTILITIES PRIOR TO ORDERING TRAFFIC SIGNAL MAST ARMS. ANY DEVIATIONS TO THE SIGNAL POLE FOUNDATION LOCATION MAY REQUIRE MODIFICATIONS TO THE MAST ARM LENGTHS.
8. POWER FOR LUMINAIRES SHALL BE PROVIDED ON A SEPARATE CIRCUIT AND METER FROM THE TRAFFIC SIGNAL.
9. CONTRACTOR TO COORDINATE CABINET LOCATION WITH BRICK PAVERS CONTRACTOR.

SIGNAL DISPLAY SEQUENCE CHART

G-GREEN
Y-YELLOW
R-RED
-G-GREEN ARROW
-Y-YELLOW ARROW
-R - RED ARROW
-FY - FLASHING YELLOW ARROW
W-WALK **
DW-DON'T WALK

PHASE ON (A)	NON-CONFLICTION PHASE (B)	CONFLICTING PHASE *
1	5, 6, 6P	2,3,4,7, 8, 2P, 4P, 8P
2	5, 6, 2P, 6P	1,3,4, 7, 8, 4P, 8P
3	7, 8, 8P	1,2,4, 5, 6, 2P, 4P, 6P
4	7, 8, 4P, 8P	1,2, 3, 5, 6, 2P, 6P
5	1, 2, 2P	3,4, 6, 7, 8, 4P, 6P, 8P
6	1, 2, 2P, 6P	3,4, 5, 7, 8, 4P, 8P
7	3, 4, 4P,	1,2, 5, 6, 8, 2P, 6P
8	3, 4, 4P, 8P	1,2, 5, 6, 7, 2P, 6P

'C' = COORDINATE Ø2 : Ø6

NOTE A: ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE OMITTED.
NOTE B: WHEN ONE PHASE IS ON ALONE, ANY NON-CONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL (SEE CHART).
* CONFLICTING PHASES REQUIRE A CLEARANCE INTERVAL.

** WHEN CALLED, DISPLAY SOLID 'WALKING PERSON' AND TIMES OUT WALK TIMING; THEN DISPLAYS FLASHING 'UPRAISED HAND' AND TIMES WALK CLEARANCE (DON'T WALK TIMING), THEN DISPLAYS A SOLID 'UPRAISED HAND'.

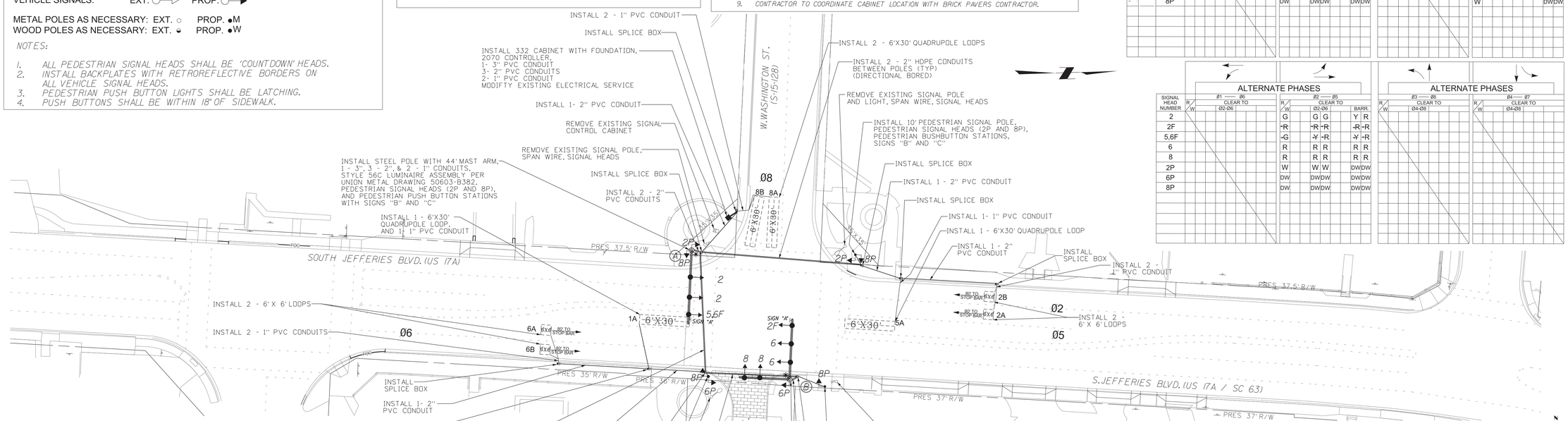
SIGNAL DISPLAY SEQUENCE (PREFERENTIAL PHASING)

FLASH	SIGNAL HEAD NUMBER	Ø1 — Ø5 CLEAR TO R/W	Ø1-Ø6	Ø2-Ø5	Ø2-Ø6	Ø2 — Ø6 CLEAR TO R/W	Ø2-Ø5	BARR.	Ø3 — Ø7 CLEAR TO R/W	Ø3-Ø8	Ø4-Ø7	Ø4-Ø8	BARR.	Ø8 CLEAR TO R/W	BARR.
Y	2					G	G	Y R						R	R R
-Y	2F					-FY	-FY	-Y -R						-R	-R -R
-Y	5,6F					-FY	-FY	-Y -R						-R	-R -R
Y	6					G	Y	R Y R						R	R R
R	8					R	R	R R R						G	Y R
-	2P					W	W	W DW	DW					DW	DW DW
-	6P					W	DW	DW DW	DW					DW	DW DW
-	8P					DW	DW	DW DW	DW					W	DW DW

BARRIER

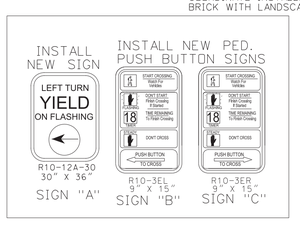
ALTERNATE PHASES

SIGNAL HEAD NUMBER	Ø1 — Ø6 CLEAR TO R/W	Ø2-Ø6	Ø2 — Ø5 CLEAR TO R/W	Ø2-Ø6	BARR.	Ø3 — Ø8 CLEAR TO R/W	Ø4-Ø8	Ø4 — Ø7 CLEAR TO R/W	Ø4-Ø8
2			G	G	Y R				
2F			-R	-R	-R -R				
5,6F			-G	-Y	-Y -R				
6			R	R	R R				
8			R	R	R R				
2P			W	W	DW DW				
6P			DW	DW	DW DW				
8P			DW	DW	DW DW				



SIGNAL TIMINGS

INTERVAL	PHASE 1	2	3	4	5	6	7	8
WALK	- - -	7	- - -	- - -	- - -	7	- - -	7
DON'T WALK	- - -	20	- - -	- - -	- - -	10	- - -	19
MIN INITIAL	- - -	15	- - -	- - -	8	15	- - -	8
MAX INITIAL	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
ADD/VEH	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
VEH EXT	- - -	3.0	- - -	- - -	3.0	3.0	- - -	3.5
TIM BFR REDUC	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
TIME TO REDUC	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
MIN GAP	- - -	3.0	- - -	- - -	3.0	3.0	- - -	3.5
MAX LIMIT	- - -	50	- - -	- - -	15	50	- - -	35
MAXIMUM 2	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
YELLOW	- - -	4	- - -	- - -	4	4	- - -	4
RED CLEAR	- - -	3.1	- - -	- - -	3.1	3.1	- - -	2.2

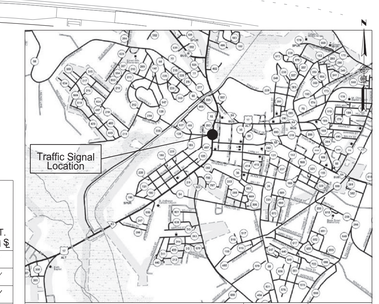


POLE CHART

POLE	NORTHING	EASTING	MAST ARM SPAN LENGTH
A	389280.3909	2102115.6999	44'
B	389337.8115	2102193.1431	36' / 30'

LOOP DETECTOR INSTALLATION CHART

PHASE/ LOOP LTR#	DETECTOR AMP NO.	DETECTOR CHAN NO.	WIRED TO PHASE(S)	X LOCK	X NON-LOCK	X PULSE	X PRES	OPERATION DELAY SEC	OPERATION EXT SEC	SPECIAL FEATURES TIME OF DAY-TOD, SWITCHING, etc.	LOOP DESIGN SIZE _X_	NO.OF TURNS	DIST. FROM ⌖
1A			6		X		X			QUADRUPOLE	6'x30'	2-4-2	-2'
2A			2	X			X				6'x6'	4	80'
2B			2	X			X				6'x6'	4	80'
5A			5		X		X			QUADRUPOLE	6'x30'	2-4-2	-2'
6A			6	X			X				6'x6'	4	80'
6B			6	X			X				6'x6'	4	80'
8A			8		X		X			QUADRUPOLE	6'x30'	2-4-2	-2'
8B			8		X		X			QUADRUPOLE	6'x30'	2-4-2	-2'



ROUTE NUMBER	Jefferies Boulevard		Washington Street
APPROACH DIRECTION	NB	SB	EB
SIGNAL DESIGN SPEED	25	25	30
GRADE (%)	-1.1	1.8	0.0*

* ESTIMATED

PREPARED FOR:

CITY OF WALTERBORO
242 HAMPTON STREET
WALTERBORO, SOUTH CAROLINA 29488

I-95 BUSINESS LOOP PHASE 1B

SOUTH JEFFERIES BLVD. & WASHINGTON ST.

Walterboro, South Carolina

Digitally signed by Brian W. Webb
Date: 2018.08.23 11:56:23 -04'00'

DAVIS & FLOYD, INC. No. C0053.58 CERTIFICATE OF AUTHORITY

DGN: LMT
R/W:
CHK: BDW

#	REVISION	DATE	BY

SHEET NUMBER

TS2

DAVIS & FLOYD
SINCE 1954

3228 W. MONTAGUE AVENUE
CHARLESTON, SC 29418
(843) 554-8602

PRINTED ON RECYCLED PAPER WWW.DAVISFLOYD.COM

This drawing copy may have been reproduced at a size different than the original drawing. No responsibility is assumed for the use of incorrect scale. Drawings are not to be scaled.

South Carolina 811 Call 811 Before you Dig.

Wood+Partners Inc. WPi
Landscape Architects
Land Planners
612 S Copeland Street ■ Tallahassee, FL 32304
850.391.0360 ■ Fax 850.386.1010 ■ www.woodandpartners.com

0 30 60 90 120
SCALE: 1"=30'

PLOTTED: 8/3/2018 10:49:30 AM FILE NAME: \\CHS-FS\Data\Jobs\Even\31588-00\CV_dgn\plnsht-Phase 1B (1B)\Federal\31588-00 IB1_TS2_Jeffries-Washington.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	COLLETON	0041932	31588.00	SC 63	TS3	

SIGNAL HEAD DISPLAY CHART

HEAD #	2	4	4,5con	5,6F	6	4P	6P
DISPLAY	R Y G	R Y G	R Y G	R Y FY G	R Y G		
PHASE	2	4	4,5	5,OLC	6	4P	6P
SIZE	12"	12"	12"	12"	12"	16"	16"
QUANTITY	2	1	1	1	2	4	2

EQUIPMENT INFORMATION

CONTROLLER	CONTRACTOR SUPPLIED 2070L
CABINET	CONTRACTOR SUPPLIED 332
CABINET MOUNT	CONCRETE BASE
PHASES USED	2,4,5,6,4P,6P
OVERLAPS	OLA=Ø1+Ø2, OLB=Ø3+Ø4, OLC=Ø5+Ø6, OLD=Ø7+Ø8

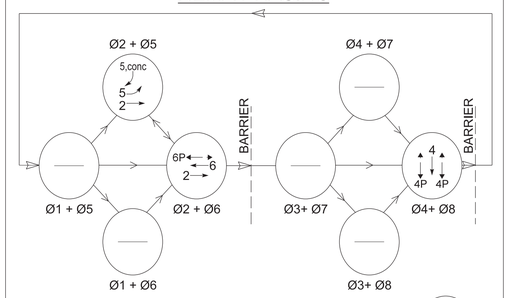
NOTES:

1. ALL PEDESTRIAN SIGNAL HEADS SHALL BE 'COUNTDOWN' HEADS.
2. INSTALL BACKPLATES WITH RETROREFLECTIVE BORDERS ON ALL VEHICLE SIGNAL HEADS.
3. PEDESTRIAN PUSH BUTTON LIGHTS SHALL BE LATCHING.
4. PUSH BUTTONS SHALL BE WITHIN 18" OF SIDEWALK.

NOTES:

1. THE LOCATION OF CONDUIT, JUNCTION BOXES, CABINETS, AND TRAFFIC SIGNAL POLES SHOWN ON THE PLAN ARE APPROXIMATE. THE CONTRACTOR SHALL CONTACT '811' AND ANY OTHER UTILITY COMPANIES NECESSARY TO VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES BEFORE DIGGING.
2. ALL EQUIPMENT, MATERIALS, AND WORKMANSHIP SHALL MEET THE STANDARDS OUTLINED IN THE MUTCD (LATEST EDITION), SCDOT STANDARD DRAWINGS, AND THE SCDOT TRAFFIC SIGNAL SPECIFICATIONS. ALL TRAFFIC SIGNAL EQUIPMENT AND MATERIALS REMOVED DURING THIS PROJECT SHALL BE RETURNED TO THE SCDOT OR DISPOSED OF AS DIRECTED BY THE ENGINEER.
3. THE CONTRACTOR IS REQUIRED TO MAINTAIN THE TRAFFIC SIGNAL OPERATION AT ALL TIMES DURING CONSTRUCTION OF THIS PROJECT. ALL COSTS FOR TEMPORARY SIGNAL EQUIPMENT AND TEMPORARY ADJUSTMENT OF THE TRAFFIC SIGNAL EQUIPMENT SHALL BE INCLUDED IN THE LINE ITEM BID FOR "TEMPORARY ADJUSTMENT OF TRAFFIC SIGNAL EQUIPMENT"
4. THE SIGNAL CONTRACTOR SHALL COORDINATE THE INSTALLATION OF NEW LOOPS WITH THE PAVEMENT MARKING CONTRACTOR.
5. DISTRICT 6 SIGNAL SHOP MUST BE CONTACTED PRIOR TO THE START OF ANY WORK.
6. CONDUIT AND SPLICE BOXES FOR THE SETBACK LOOPS SHOULD BE PLACED IN THE NEW SIDEWALK PRIOR TO POURING CONCRETE.
7. THE CONTRACTOR SHALL OBTAIN REQUIRED SOIL INFORMATION AND DESIGN THE POLE FOUNDATIONS AS PART OF THE UNIT BID PRICE FOR THE MAST ARMS. THE CONTRACTOR SHALL VERIFY THAT THE SIGNAL POLE FOUNDATION WILL NOT CONFLICT WITH EXISTING UNDERGROUND UTILITIES PRIOR TO ORDERING TRAFFIC SIGNAL MAST ARMS. ANY DEVIATIONS TO THE SIGNAL POLE FOUNDATION LOCATION MAY REQUIRE MODIFICATIONS TO THE MAST ARM LENGTHS.
8. POWER FOR LUMINAIRES SHALL BE PROVIDED ON A SEPARATE CIRCUIT AND METER FROM THE TRAFFIC SIGNAL.

NEMA PHASING

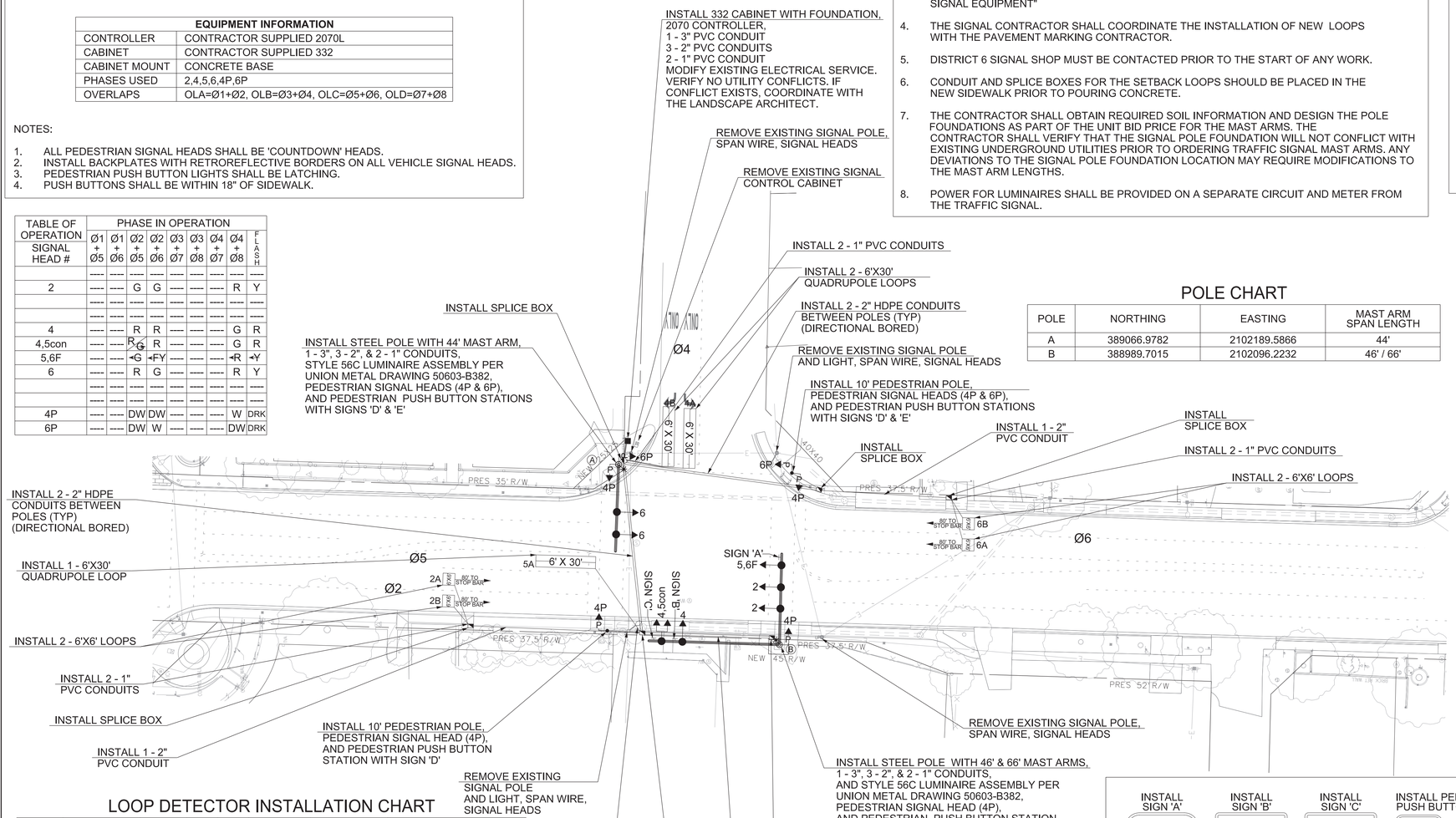


NOTE: ACTUATED PHASES HAVING NO CALL SHALL BE SKIPPED

*N-S STREET COORDINATED

FLASHING OPERATION

TABLE OF OPERATION / SIGNAL HEAD #	PHASE IN OPERATION Ø1 + Ø5	Ø1 + Ø6	Ø2 + Ø5	Ø2 + Ø6	Ø3 + Ø7	Ø3 + Ø8	Ø4 + Ø7	Ø4 + Ø8	FLASH
	----	----	----	----	----	----	----	----	----
2	----	----	G	G	----	----	----	R	Y
	----	----	----	----	----	----	----	----	----
	----	----	----	----	----	----	----	----	----
4	----	----	R	R	----	----	----	G	R
4,5con	----	----	R G	R	----	----	----	G	R
5,6F	----	----	G	FY	----	----	----	R	Y
6	----	----	R	G	----	----	----	R	Y
	----	----	----	----	----	----	----	----	----
	----	----	----	----	----	----	----	----	----
4P	----	----	DW	DW	----	----	----	W	DRK
6P	----	----	DW	W	----	----	----	DW	DRK



POLE CHART

POLE	NORTHING	EASTING	MAST ARM SPAN LENGTH
A	389066.9782	2102189.5866	44'
B	388989.7015	2102096.2232	46' / 66'

SIGNAL TIMINGS

INTERVAL	PHASE 1	2	3	4	5	6	7	8
WALK	------	------	------	7	------	7	------	------
DON'T WALK	------	------	------	20	------	23	------	------
MIN INITIAL	------	15	------	8	8	15	------	------
MAX INITIAL	------	------	------	------	------	------	------	------
ADD/VEH	------	------	------	------	------	------	------	------
VEH EXT	------	2.5	------	2.5	2.5	2.5	------	------
TIME BFR REDUC	------	------	------	------	------	------	------	------
TIME TO REDUC	------	------	------	------	------	------	------	------
MIN GAP	------	2.5	------	2.5	2.5	2.5	------	------
MAX LIMIT	------	70	------	30	30	70	------	------
MAXIMUM 2	------	------	------	------	------	------	------	------
YELLOW	------	4.0	------	4.0	4.0	4.0	------	------
RED CLEAR	------	2.7	------	2.6	2.7	2.7	------	------

LOOP DETECTOR INSTALLATION CHART

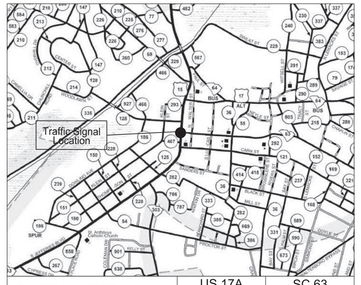
PHASE/ LOOP LTR#	DETECTOR AMP NO.	CHAN NO.	WIRED TO PHASE(S)	LOCK	NON-LOCK	PULSE	PRES	OPERATION DELAY SEC	EXT SEC	SPECIAL FEATURES TIME OF DAY-TOD, SWITCHING, etc.	LOOP DESIGN SIZE _X_	NO.OF TURNS	DIST. FROM ⊕
2A			2	X			X				6' X 6'	4	80'
2B			2	X			X				6' X 6'	4	80'
4A			4		X		X			QUADRUPOLE	6' X 30'	2-4-2	-2'
4B			4		X		X	8		QUADRUPOLE	6' X 30'	2-4-2	-2'
5A			5		X		X			QUADRUPOLE	6' X 30'	2-4-2	-2'
6A			6	X			X				6' X 6'	4	80'
6B			6	X			X				6' X 6'	4	80'

INSTALL SIGN 'A' — LEFT TURN YIELD ON FLASHING — R10-12A-30 30" X 36"

INSTALL SIGN 'B' — ONLY — R3-5L-30 30" X 36"

INSTALL SIGN 'C' — ONLY — R3-5R-30 30" X 36"

INSTALL PEDESTRIAN PUSH BUTTON SIGNS — R10-3eL 9" X 15" SIGN 'D'; R10-3eR 9" X 15" SIGN 'E'



ROUTE NUMBER	US 17A (Jefferies Blvd.)		SC 63 (Hampton St.)
APPROACH DIRECTION	NB	SB	WB
SIGNAL DESIGN SPEED	25	25	25
GRADE (%)	0.0*	-1.9*	0.0*

* ESTIMATED

DAVIS & FLOYD
SINCE 1954
PRINTED ON RECYCLED PAPER
WWW.DAVISFLOYD.COM

3229 W. MONTAGUE AVENUE
CHARLESTON, SC 29418
(843) 554-8602

This drawing copy may have been reproduced at a size different than the original drawing. No responsibility is assumed for the use of incorrect scale. Drawings are not to be scaled.

South Carolina 811 — Call 811 Before you Dig

Wood+Partners Inc. WPi
Landscape Architects
Land Planners
612 S Copeland Street ■ Tallahassee, FL 32304
850.391.0360 ■ Fax 850.386.1010 ■ www.woodlandpartners.com

0 30 60 90 120
SCALE: 1"=30'

PREPARED FOR:
CITY OF WALTERBORO
242 HAMPTON STREET
WALTERBORO, SOUTH CAROLINA 29488

I-95 BUSINESS LOOP PHASE 1B

SOUTH JEFFERIES BLVD. & HAMPTON ST.

Walterboro, South Carolina

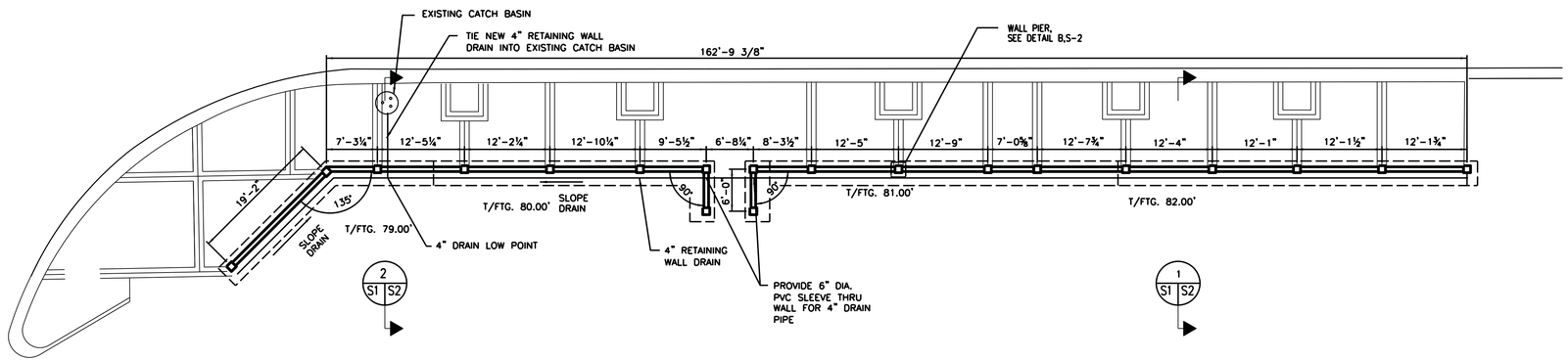
DGN: LMT
R/W:
CHK: BDW

#	REVISION	DATE	BY

SHEET NUMBER
TS3

PLOTTED: 8/3/2018 10:49:46 AM FILE NAME: \\CHS-FS\Data\Jobs\Seven\31588-00\CV_dgn\plnsht-Phase_IB_(IB)-Federal\31588-00-IB1_TS3_SouthJefferies-Hampton.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	COLLETON	0041932	31588.00	SC 63	S1	



HISTORIC CONCRETE WALL FOUNDATION PLAN

SCALE: 1" = 10' – 0"

PREPARED FOR:

CITY OF WALTERBORO
242 HAMPTON STREET
WALTERBORO, SOUTH CAROLINA 29488

I-95 BUSINESS LOOP PHASE 1B

HISTORICAL CONCRETE WALL
FOUNDATION PLAN, SECTION AND DETAILS
Walterboro, South Carolina

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 23891 LICENSED 12/17/23/18 JOHN Y. OHYO

SOUTH CAROLINA NOLLY PROCTOR JR. DAVIS & FLOYD, INC. No. C00538 CERTIFICATE OF AUTHORITY

DGN: WCG
R/W:
CHK: JYO

#	REVISION	DATE	BY

SHEET NUMBER
S1

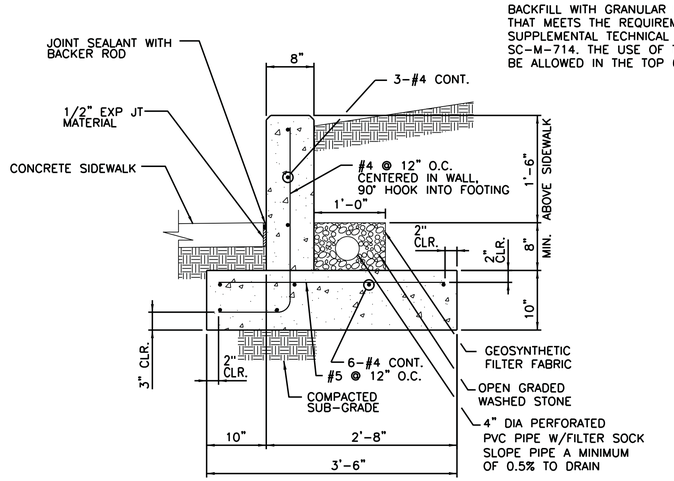
DAVIS & FLOYD
SINCE 1954
WWW.DAVISFLOYD.COM
3229 W. MONTAGUE AVENUE
CHARLESTON, SC 29405
(843) 554-8602

This drawing copy may have been reproduced at a size different than the original drawing. No responsibility is assumed for the use of incorrect scale. Drawings are not to be scaled.

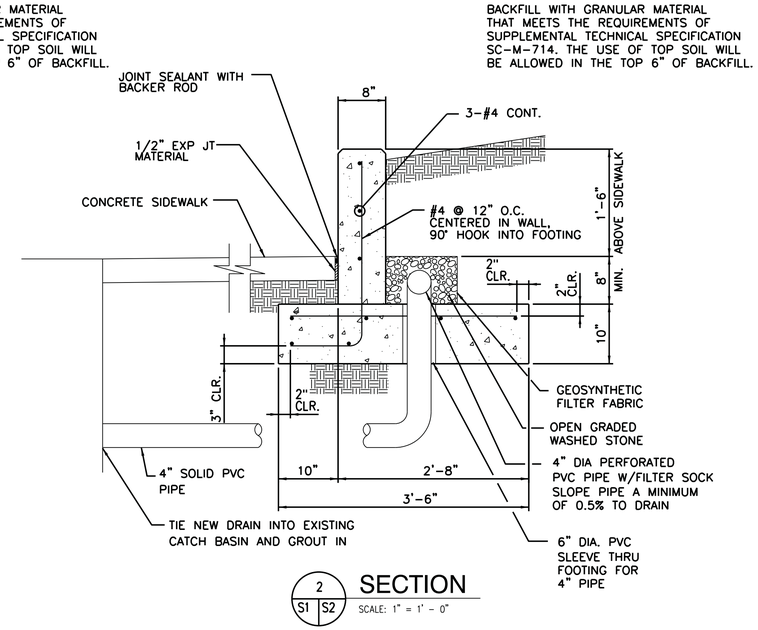
South Carolina 811 Call 811 Before you Dig

Wood+Partners Inc. WPi
Landscape Architects
Land Planners
612 S Copeland Street ■ Tallahassee, FL 32304
850.391.0360 ■ Fax 850.386.7010 ■ www.woodandpartners.com

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	COLLETON	0041932	31588.00	SC 63	S2	



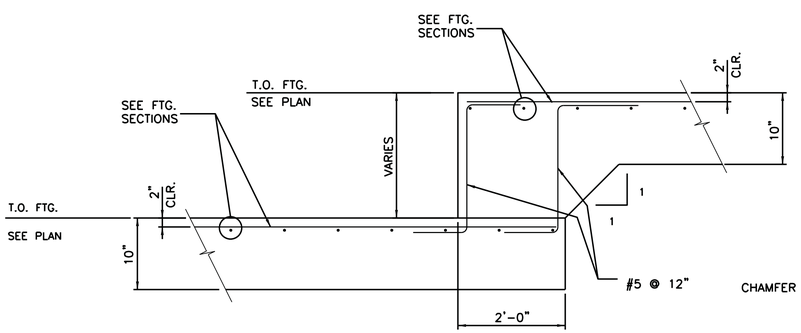
1 S1 S2 SECTION
SCALE: 1" = 1' - 0"



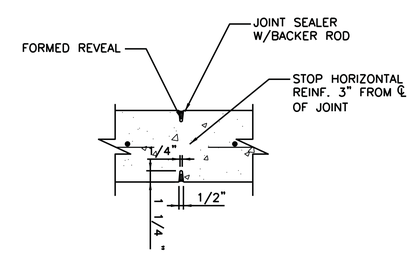
2 S1 S2 SECTION
SCALE: 1" = 1' - 0"

NOTES:

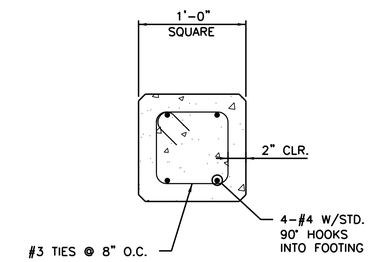
1. PROVIDE ALL WORKMANSHIP IN ACCORDANCE WITH THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION 2007 STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, UNLESS OTHERWISE SPECIFIED ON THE PLANS OR IN THE SPECIAL PROVISIONS.
2. CONCRETE SHALL BE SCDOT CLASS 4000.
3. DEFORMED REINFORCING STEEL SHALL BE ASTM A706, LATEST REVISION, GRADE 60.
4. DETAILING, FABRICATION AND PLACING OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE CURRENT C.R.S.I. MANUAL OF STANDARD PRACTICE.
5. CONCRETE COVER FOR REINFORCING SHALL BE 2" EXCEPT FOR CONCRETE CAST AGAINST THE GROUND. CONCRETE COVER FOR CONCRETE CAST AGAINST THE GROUND SHALL BE 3 INCHES.
6. PAY ITEM FOR LF OF HISTORIC CONCRETE WALL SHALL INCLUDE COST OF CONCRETE AND REINFORCING STEEL FOR WALL AND FOOTINGS AND PROVIDING CONTRACTION JOINTS AND FINISHING CONCRETE.
7. ALL AREAS OF CONCRETE WALL EXPOSED TO VIEW SHALL RECEIVE A RUBBED CONCRETE FINISH. NOT LATER THAN ONE DAY AFTER FORM REMOVAL, MOISTEN CONCRETE SURFACES AND RUB WITH A CARBORUNDUM BRICK OR ANOTHER ABRASIVE UNTIL PRODUCING A UNIFORM COLOR AND TEXTURE. DO NOT APPLY CEMENT GROUT OTHER THAN CREATED BY THE RUBBING PROCESS.
8. PAY ITEM FOR 4" PERFORATED PIPE UNDERDRAIN LF SHALL INCLUDE COST OF GEOSYNTHETIC FILTER FABRIC, STONE, AND 4" DIAMETER PERFORATED PIPE WITH FILTER SOCK.
9. PAY ITEM FOR SITE EXCAVATION CY SHALL INCLUDE EXCAVATION FOR WALL CONSTRUCTION.



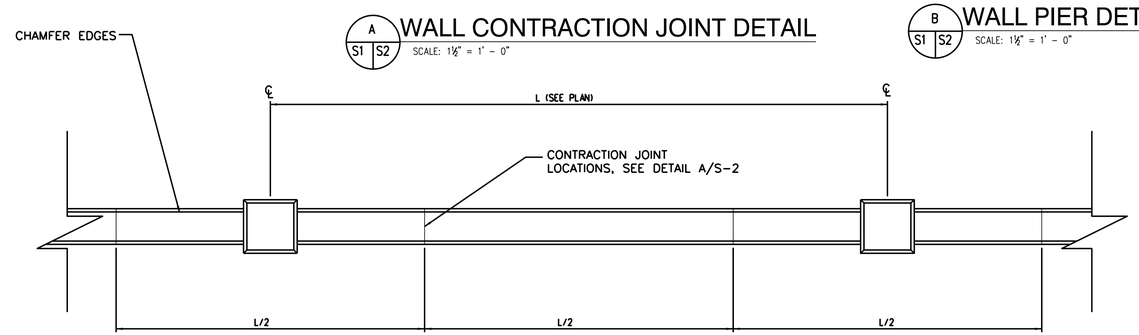
C S1 S2 STEP FOOTING DETAIL
SCALE: 3/4" = 1' - 0"



A S1 S2 WALL CONTRACTION JOINT DETAIL
SCALE: 1½" = 1' - 0"



B S1 S2 WALL PIER DETAIL
SCALE: 1½" = 1' - 0"



TYPICAL WALL CONTRACTION JOINT PLAN
SCALE: N.T.S.

PREPARED FOR:
CITY OF WALTERBORO
242 HAMPTON STREET
WALTERBORO, SCOTT CAROLINA 29488

I-95 BUSINESS LOOP PHASE 1B
HISTORICAL CONCRETE WALL
FOUNDATION PLAN, SECTION AND DETAILS
Walterboro, South Carolina

DGN: WCG
R/W:
CHK: JYO

#	REVISION	DATE	BY

SHEET NUMBER
S2

DAVIS & FLOYD
SINCE 1954
WWW.DAVISFLOYD.COM
3229 W. MONTAGUE AVENUE
CHARLESTON, SC 29418
(843) 554-8002

This drawing copy may have been reproduced at a size different than the original drawing. No responsibility is assumed for the use of incorrect scale. Drawings are not to be scaled.

South Carolina 811 Call 811 Before you Dig

Wood+Partners Inc. WPi
Landscape Architects
Land Planners
612 S Copeland Street ■ Tallahassee, FL 32304
850.391.0360 ■ Fax 850.386.1010 ■ www.woodandpartners.com

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	COLLETON	0041932	31588.00	SC 63	EC01	

SEEDING INSTALLATION

A. Seed all disturbed areas of construction (excluding riprap lined ditches).

B. No seeding should be undertaken in windy or unfavorable weather, when the ground is too wet to rake easily, when it is in a frozen condition, or too dry.

C. The subgrade of all areas to be seeded shall be raked and all rubbish, sticks, roots, and stones larger than 2 IN shall be removed.

D. Fertilizer shall be uniformly spread and disked or roto-tilled to a depth of at least 4 IN.

E. Immediately following this preparation the seed shall be uniformly applied and lightly raked into the surface. Lightly roll the surface and water with fine spray. Seed shall be applied, depending on the period of year, at the rates indicated in Section 810 of the SCDOT Standard Specifications for Highway Construction (Edition 2007).

All seeded areas shall be mulched with clean small-grain straw at a rate of 1½ to 2 tons per acre. Asphalt emulsion shall be applied uniformly at a rate of 300 GAL per acre to tack the mulch, unless otherwise shown on the plans. Mechanical tacking will be considered on a case-by-case basis as approved by the Engineer.

F. All seeded areas shall be watered and maintained in good condition. Reseeding shall be done if and when necessary until a good, healthy, uniform growth is established over the entire area seeded.

G. Slopes shall be protected against washouts by an approved method. Any washout which occurs shall be regraded and reseeded until good sod is established.

SEQUENCE OF CONSTRUCTION

A. Obtain all permits.

B. Contact the office of Ocean and Coastal Resource Management (OCRM) at (843)744-5838 prior to commencing construction activities.

C. Install sediment erosion controls as follows:

1. Silt Fences shall be used to prevent silt from leaving the limits of construction.
2. Stabilized Graveled Construction Entrances shall be used at locations where construction vehicles access public non-construction areas. Vehicles shall be washed down as necessary to prevent tracking of silt off-site.
3. A temporary rock filter dam or sediment tube shall be used as ditch checks as directed by the Engineer.
4. Adhere to all of the OCRM Standard Notes listed on the right of this sheet and install BMP's per the SCDOT Standard Drawings for Erosion Control.

D. A recommended sequence of construction follows:

1. Clear and grub only areas necessary for perimeter erosion and sediment control, silt fence, hay bales, and temporary sediment traps.
2. Construct perimeter controls.
3. Construct new drainage appurtenances within the areas protected by perimeter controls.
4. Install protection around inlets and stabilize disturbed areas as soon as possible (within 7 calendar days).
5. Proceed with construction. Limit disturbed areas to areas with work in progress to limit disruption to traffic. Schedule work to maintain access to all driveways as long as possible.
6. Erosion controls may be removed after the area contributing flow to that particular erosion control device has been stabilized.
7. Stabilize all remaining areas.
8. Clean out temporary sediment control as needed; check controls every seven (7) days.
9. Remove sediment controls 30 days after all disturbed areas have stabilized.

E. Submit Notice of Termination to SCDHEC.

STANDARD NOTES

1. If necessary, slopes which exceed eight (8) 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.
2. 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:
   *Where stabilization by the 14th day is precluded by snow cover or frozen ground conditions stabilization measures must be initiated as soon as practicable.
   *Where construction activity on a portion of the site is temporarily ceased, and earth disturbing activities will be resumed within 14 days, temporary stabilization measures do not have to be initiated on that portion of the site.
3. All sediment and 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 identification
4. 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 immediately after the utility installation. Fill, cover, and temporary seeding at the end of each day are recommended. If water is encountered while trenching, the water should be filtered to remove any sediments before being pumped back into any waters of the state.
5. All erosion control devices shall be properly maintained during all phases of construction until the completion of all construction activities and all disturbed areas have been stabilized. Additional control devices may be required during construction in order to control erosion and or offsite sedimentation. All temporary control devices shall be removed once construction is complete and the site is stabilized.
6. The contractor must take necessary action to minimize the tracking of mud onto paved roadway(s) from the construction area and the generation of dust. The contractor shall daily remove mud/soil from pavement, as may be required.
7. Residential subdivisions require erosion control features for 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.
8. Temporary diversion berms and or ditches will be provided as needed during construction to protect work areas from upslope runoff and or to divert sediment-laden water to appropriate traps or stable outlets.
9. 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 can't 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.
10. Litter, construction debris, oils, fuels, and building products with significant potential for impact (such as stockpiles of freshly treated lumber) and construction chemicals that could be exposed to storm water must be prevented from being a pollutant source in storm water discharges.
11. A copy of the SWPPP, inspection records, and rainfall data must be retained at the construction site or a nearby location easily accessible during normal business hours, from the date of commencement of construction activities to the date that final stabilization is reached.
12. Initiate stabilization measures on any exposed steep slope (3H:1V or greater) where land-disturbing activities have permanently or temporarily ceased, and will not resume for a period of 7 calendar days.
13. Minimize soil compaction and, unless infeasible, preserve topsoil.
14. Minimize the discharge of pollutants from equipment and vehicle washing, wheel wash water, and other wash waters. Wash waters must be treated in a sediment basin or alternative control that provides equivalent or better treatment prior to discharge.
15. Minimize the discharge of pollutants from dewatering of trenches and excavated areas. These discharges are to be routed through appropriate BMPs (sediment basin, filler bag, etc.).
16. The following discharges from sites are prohibited:
   * Wastewater from washout of concrete, unless managed by an appropriate control;
   * Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials;
   * Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance; and
   * Soaps or solvents used in vehicle and equipment washing.
17. After construction activities begin, inspections must be conducted at a minimum of at least once every calendar week and must be conducted until final stabilization is reached on all areas of the construction site.
18. If existing BMPs need to be modified 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 before the next storm event is impracticable, the situation must be documented in the SWPPP and alternative BMPs must be implemented as soon as reasonably possible.
19. 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.

STANDARD EROSION CONTROL DRAWINGS

DRAWING NO.	DRAWING DESCRIPTION	LATEST REVISION
815-001-01	TYPE A INLET STRUCTURE FILTERS	11/2016
815-006-00	TYPE F INLET STRUCTURE FILTERS	11/2016
815-605-00	TEMPORARY SILT FENCE	11/2016

Copies of SCDOT Standard Drawings are available at the following web address http://www.scdot.org/business/standard-drawings.aspx

PREPARED FOR:

CITY OF WALTERBORO
242 HAMPTON STREET
WALTERBORO, SOUTH CAROLINA 29488

I-95 BUSINESS LOOP
PHASE 1B
EROSION CONTROL NOTES
Walterboro, South Carolina

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 20214 8/3/2018 REGISTERED GEORGE TILLEY BULL

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION DAVIS & FLOYD, INC. No. C00538

DGN: LEK
R/W:
CHK: GTB

#	REVISION	DATE	BY

DAVIS & FLOYD
SINCE 1954
WWW.DAVISFLOYD.COM
3229 W. MONTAGUE AVENUE
CHARLESTON, SC 29418
(843) 554-8602

This drawing copy may have been reproduced at a size different than the original drawing. No responsibility is assumed for the use of incorrect scale. Drawings are not to be scaled.

South Carolina 811 Call 811 Before you Dig

Wood+Partners Inc. WPi
Landscape Architects
Land Planners
612 S Copeland Street ■ Tallahassee, FL 32304
850.391.0360 ■ Fax 850.386.1010 ■ www.woodandpartners.com

NTS

SHEET NUMBER
EC01

PLOTTED: 8/3/2018 11:40:32 AM FILE NAME: \\CHS-FS1\Data\JobsEven\31588-00\Cf_dgn\plnsht-Phase 1B (1B1)-federal\3158800-1B1-ec01.dgn

SCDOT
South Carolina Department of Transportation

EROSION CONTROL DATA SHEET

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE/ROAD NO.	SHEET NO.
3	S.C.	COLLETON	0041932	SC 63	EC2

RECEIVING WATERS

ROAD / ROUTE	OUTFALL DITCH		NAME OF RECEIVING WATERS	NAME OF ULTIMATE RECEIVING WATERS
	STATION	SIDE		
SC 63	N/A	N/A	IRELAND CREEK	ASHEPOO RIVER

SOIL TYPES

ROAD / ROUTE	STATION TO STATION		SOIL PARTICLE SIZE (COARSE / FINE)	ZONE
SC 63	62+50	71+55	FINE	LOWER COASTAL

TEMPORARY EROSION CONTROL BLANKET

ROAD / ROUTE	STATION TO STATION		SIDE	DEPTH OF BLANKET (FT)	DITCH BOTTOM WIDTH (FT)	SLOPES x : 1		MSY
						FRONT	BACK	
							TOTAL	

TURF REINFORCED MATTING (TRM)

ROAD / ROUTE	STATION TO STATION		SIDE	DEPTH OF MAT (FT)	SLOPES (x : 1)		DITCH BOTTOM WIDTH (FT)	TYPE	TYPE 1 (MSY)	TYPE 2 (MSY)	TYPE 3 (MSY)
					FRONT	BACK					
								TOTALS			

SEDIMENT TUBES IN DITCHES

ROAD / ROUTE	STATION TO STATION		SIDE	AVERAGE LENGTH	SPACING (FT)	TOTAL	COMMENTS
						TOTAL	

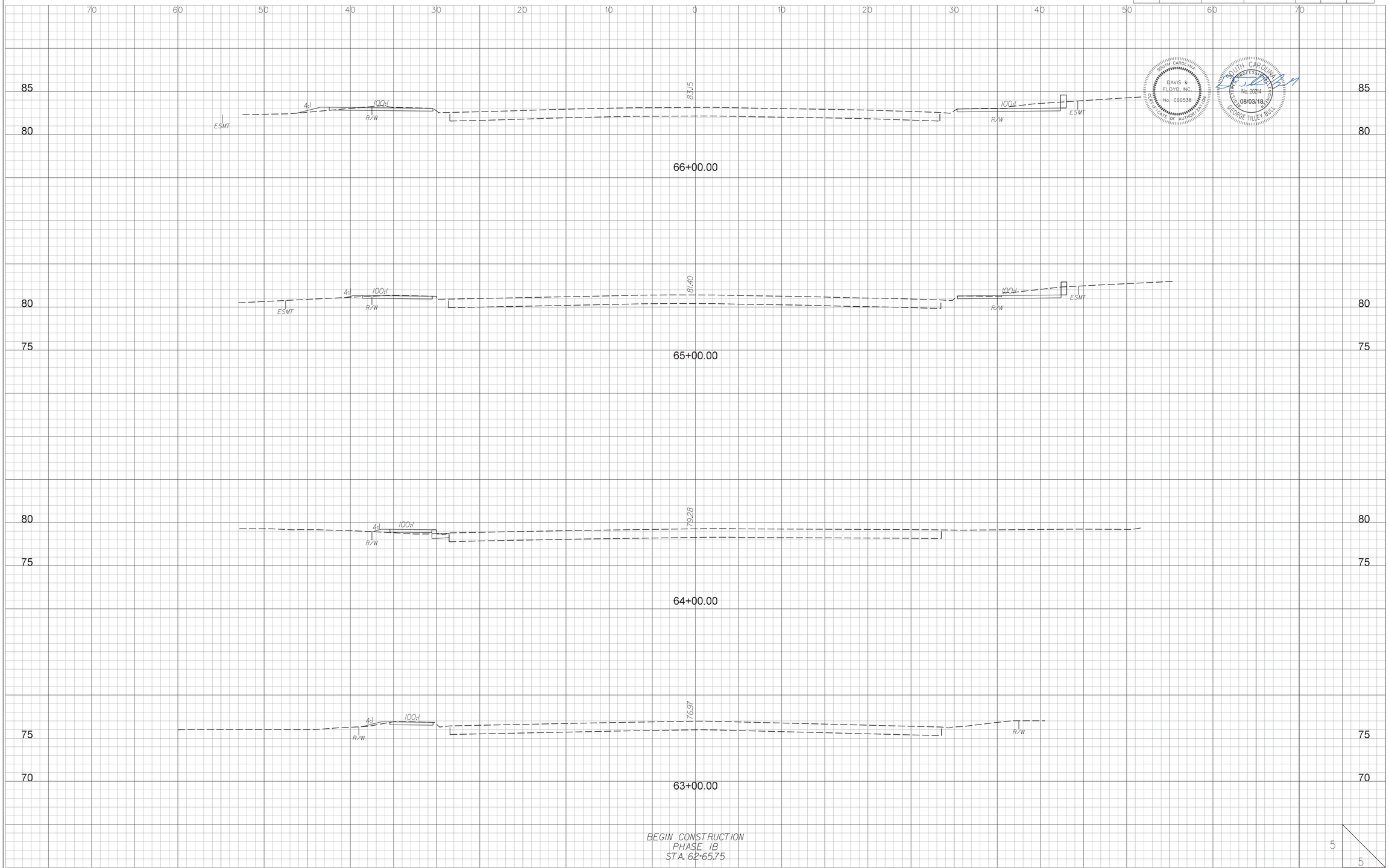
SEDIMENT DAM

NO	ROAD / ROUTE	STATION	SIDE	DRAINED OR NOT DRAINED	LENGTH OF SILT BASIN	WIDTH OF SILT BASIN	DAM HEIGHT	SIDE SLOPE OF SILT BASIN	SPILLWAY BOTTOM WIDTH	DAM BOTTOM WIDTH	RIP RAP CLASS	TOTAL STORAGE VOLUME	SEDIMENT STORAGE HEIGHT	OUTFALL CHANNEL WIDTH	OUTFALL CHANNEL DEPTH	OUTFALL CHANNEL LENGTH

5/11/2018
G:\JobsEven\31588-00\Cif_dgn\plnsht-Phase 1B (1Bi)-federal\ECDS_10_18_2015.xlsx]ECDS SHEET 1

xsborder.dgn

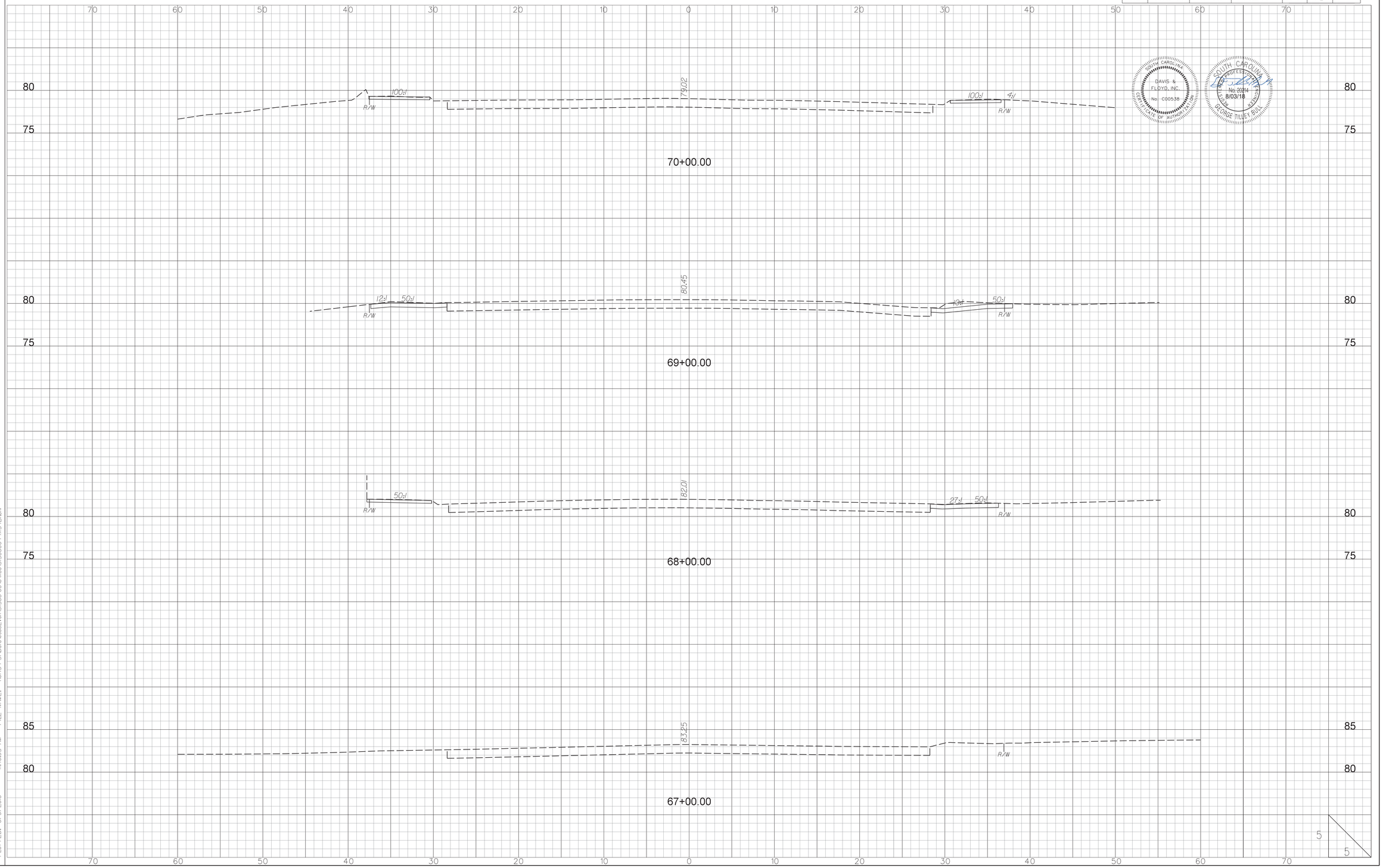
STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
S.C.	COLLETON	0041932	31588.00	SC 63	X1	



PLOTTED: 8/3/2018 11:40:35 AM FILE NAME: \\CHS-FS\Data\JobsEven\31588.00\Civil\31588.00-PIXS-181.dgn

xsborder.dgn

STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
S.C.	COLLETON	0041932	31588.00	SC 63	X2	



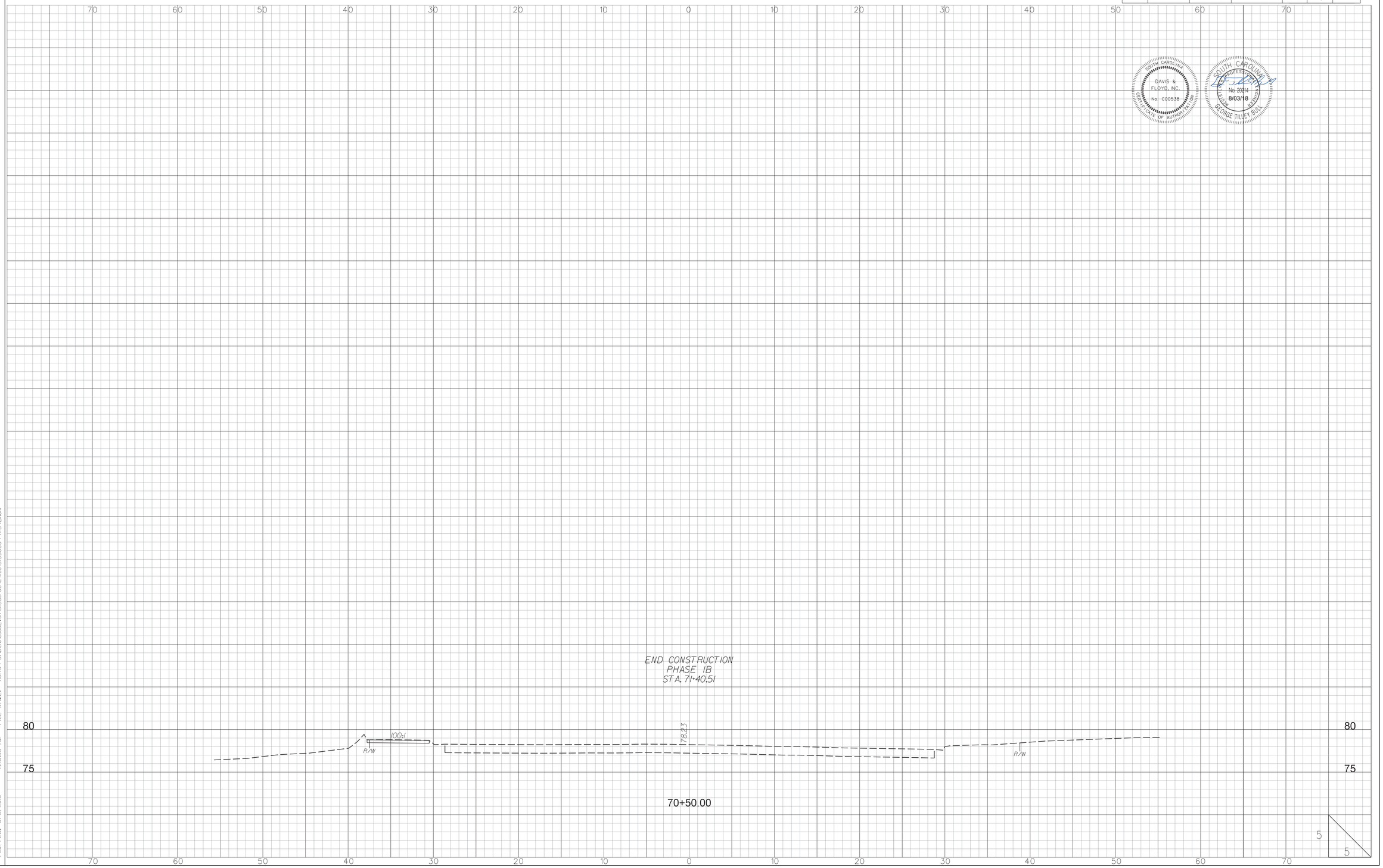
SOUTH CAROLINA
DAVIS & FLOYD, INC.
No. C00538
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
PROFESSIONAL ENGINEER
No. 20214
8/03/18
GEORGE TILLEY BULL

PLOTTED: 8/31/2018 11:40:35 AM FILE NAME: \\CHS-FS1\Data\JobsEven\31588-00\C\xsc\31588.00-PIXS-181.sht

xsborder.dgn

STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
S.C.	COLLETON	0041932	31588.00	SC 63	X.3	



PLOTTED: 8/3/2018 11:40:35 AM FILE NAME: \\CHS-FS\Data\JobsEven\31588.00\C\xsc\31588.00-PIXS-181.stt