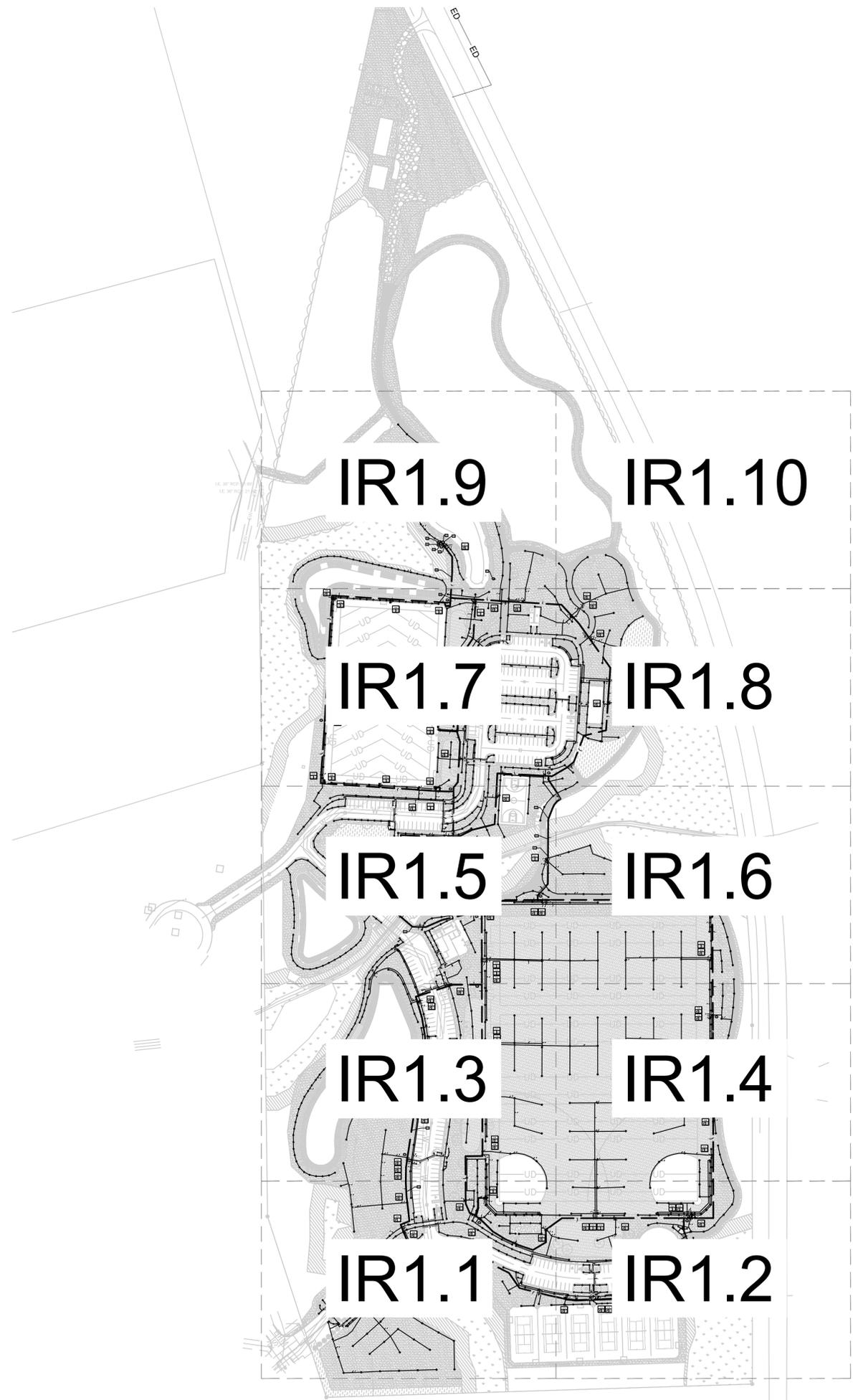


THIS DRAWING SHALL NOT BE REPRODUCED IN ANY MANNER OR USED FOR ANY PURPOSE WITHOUT WRITTEN PERMISSION.  
 501 WANDO PARK BOULEVARD, SUITE 200 | MOUNT PLEASANT, SC 29564 | 508 RHETT STREET, SUITE 101 | GREENVILLE, SC 29601  
 COPYRIGHT © SEAMON, WHITESIDE & ASSOCIATES, INC.



### IRRIGATION SCHEDULE

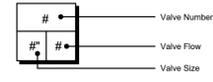
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
ES LCS RCS CS SS	Hunter PROS-12-PRS30-CV 5' strip spray Shrub Spray, 30 psi regulated 12.0" Pop-Up. With Factory Installed Drain Check Valve. Co-molded wiper seal with UV Resistant Material.
Q T H F	Hunter PROS-12-PRS30-CV 10' radius Shrub Spray, 30 psi regulated 12.0" Pop-Up. With Factory Installed Drain Check Valve. Co-molded wiper seal with UV Resistant Material.
⊙ ⊙ ⊙ ⊙ ⊙ ⊙ ⊙ ⊙	Hunter PROS-12-PRS30-CV Adjustable Arc Shrub Spray, 30 psi regulated 12.0" Pop-Up. With Factory Installed Drain Check Valve. Co-molded wiper seal with UV Resistant Material.
Ⓡ	Hunter MP Corner PROS-06-PRS40-CV Turf Rotator, 6" pop-up with factory installed check valve, pressure regulated to 40 psi, MP Rotator nozzle on PRS40 body. T=Turquoise adj arc 45-105.
LST RST SST	Hunter MP Strip PROS-06-PRS40-CV Turf Rotator, 6" pop-up with factory installed check valve, pressure regulated to 40 psi, MP Rotator nozzle on PRS40 body, LST=Ivory left strip, SST=Copper right strip.
L O	Hunter MP1000 PROS-06-PRS40-CV Turf Rotator, 6" pop-up with check valve, pressure regulated to 40 psi, MP Rotator nozzle on PRS40 body. M=Maroon adj arc 90 to 210, L=Light Blue 210 to 270 arc, O=Olive 360 arc.
W G R	Hunter MP2000 PROS-06-PRS40-CV Turf Rotator, 6" pop-up with factory installed check valve, pressure regulated to 40 psi, MP Rotator nozzle on PRS40 body. K=Black adj arc 90-210, G=Green adj arc 210-270, R=Red 360 arc.
Y A	Hunter MP3000 PROS-06-PRS40-CV Turf Rotator, 6" pop-up with factory installed check valve, pressure regulated to 40 psi, MP Rotator nozzle on PRS40 body. B=Blue adj arc 90-210, Y=Yellow adj arc 210-270, A=Gray 360 arc.
Ⓡ	Hunter MP Corner PROS-12-PRS40-CV Shrub Rotator, 12" pop-up with factory installed check valve, pressure regulated to 40 psi, MP Rotator nozzle. T=Turquoise adj arc 45-105.
LST RST SST	Hunter MP Strip PROS-12-PRS40-CV Shrub Rotator, 12" pop-up with factory installed check valve, pressure regulated to 40 psi, MP Rotator nozzle. LST=Ivory left strip, SST=Copper right strip.
L O	Hunter MP1000 PROS-12-PRS40-CV Shrub Rotator, 12" pop-up with check valve, pressure regulated to 40 psi, MP Rotator nozzle. M=Maroon adj arc 90 to 210, L=Light Blue 210 to 270 arc, O=Olive 360 arc.
W G R	Hunter MP2000 PROS-12-PRS40-CV Shrub Rotator, 12" pop-up with check valve, pressure regulated to 40 psi, MP Rotator nozzle. K=Black adj arc 90-210, G=Green adj arc 210-270, R=Red 360 arc.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
1.5	Hunter I-20-04-PRB Turf Rotor, 4.0" Pop-Up, Adjustable and Full Circle. Plastic Riser. Pressure Regulated to 45 psi, Drain Check Valve. Standard Nozzle.
2.0	Hunter I-20-04-PRB Turf Rotor, 4.0" Pop-Up, Adjustable and Full Circle. Plastic Riser. Pressure Regulated to 45 psi, Drain Check Valve. Standard Nozzle.
2.5	Hunter I-20-04-PRB Turf Rotor, 4.0" Pop-Up, Adjustable and Full Circle. Plastic Riser. Pressure Regulated to 45 psi, Drain Check Valve. Standard Nozzle.
3.0	Hunter I-20-04-PRB Turf Rotor, 4.0" Pop-Up, Adjustable and Full Circle. Plastic Riser. Pressure Regulated to 45 psi, Drain Check Valve. Standard Nozzle.
4.0	Hunter I-20-04-PRB Turf Rotor, 4.0" Pop-Up, Adjustable and Full Circle. Plastic Riser. Pressure Regulated to 45 psi, Drain Check Valve. Standard Nozzle.
6.0	Hunter I-20-04-PRB Turf Rotor, 4.0" Pop-Up, Adjustable and Full Circle. Plastic Riser. Pressure Regulated to 45 psi, Drain Check Valve. Standard Nozzle.
8.0	Hunter I-20-04-PRB Turf Rotor, 4.0" Pop-Up, Adjustable and Full Circle. Plastic Riser. Pressure Regulated to 45 psi, Drain Check Valve. Standard Nozzle.
08	Hunter I-25-04-SS Turf Rotor, 4.0" Pop-Up, Adjustable and Full Circle. Stainless Steel Riser. Drain Check Valve. Standard Nozzle.
13	Hunter I-25-04-SS Turf Rotor, 4.0" Pop-Up, Adjustable and Full Circle. Stainless Steel Riser. Drain Check Valve. Standard Nozzle.
15	Hunter I-25-04-SS Turf Rotor, 4.0" Pop-Up, Adjustable and Full Circle. Stainless Steel Riser. Drain Check Valve. Standard Nozzle.
18	Hunter I-25-04-SS Turf Rotor, 4.0" Pop-Up, Adjustable and Full Circle. Stainless Steel Riser. Drain Check Valve. Standard Nozzle.
83	Hunter STK-1 STK kit. STG-900 rotor, ST Vault, ST swing joint, ST adapter elbow, ST rotor adapter fitting, Rubber cover kit, quick coupler valve.

2

### IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
⊙	Hunter ICV-G-FS 1", 1-1/2", 2", and 3" Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use. With Filter Sentry.
⊙	Hunter HQ-44LR-AW Quick coupler valve, yellow rubber locking cover, red brass and stainless steel, with 1" NPT inlet, 2-piece body. Acme key with Anti-Rotation Wings.
⊙	Matco-Norca 10RT 2" to 8" cast iron gate isolation valve. Ring-Tite Gasket Ends. Resilient wedge with epoxy coating and optional nut. For IPS pipe. Same size as mainline pipe.
⊙	Nibco T-113 Class 125 bronze gate shut off valve with wheel handle, same size as mainline pipe diameter at valve location. Size Range - 1/4" - 3"
⊙	Rain Bird ESP-LXD-LXMMSS-LXMMSSPED with (1) ESPLXD-SM75 125 station 2-wire, exterior stainless steel pedestal. Flow sensing.
⊙	Rain Bird IQ-NCC-4G IQ NCC 4G Cell data cartridge.
⊙	Rain Bird WR2-RFS Wireless Rain/Freeze Sensor.
⊙	Creative Sensor Technology FSI-S30-001 3" PVC Saddle Type Flow Sensor, custom mounting saddle and ultra-lightweight impeller enhances low flow measurement. Two wire digital output compatible with all irrigation controllers. Flow range: 6-300 GPM.
⊙	2-Wire Grounding Point Install as per plan detail and manufacturers instructions.
⊙	Pond Recharge Well 60 gpm with a discharge pressure of 20 psi. See plans Recharge Well Notes.
⊙	Pump Station: Watertronics WMLV-7000-2-30-4620-3-200-13
⊙	Irrigation Lateral Line: PVC Class 200 SDR 21
⊙	Irrigation Mainline: PVC Class 200 SDR 21
⊙	Irrigation Mainline: HDPE PE4710 DR 11
⊙	Pipe Steeve: PVC Schedule 40 Valve Callout



### REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION
1	Irrigation system water source to be a pump station pumping out of the retention basin. System requirements are 200 gpm with a discharge pressure of 130 psi.
2	See pump station detail and specifications sheet IR1.12.
3	Install pedestal controller and pump station on a concrete pad as per detail on sheet IR1.12. Power for the controller will be located in the pump station control panel. All power wire to be in SCH 40 PVC conduit.
4	Install data modem cartridge in the controller and connect to Rain Bird IQ4. Contact Rain Bird rep Donn Mann, 520-904-1146, for IQ4 subscription and set up.
5	Mount the wireless Rain/Freeze sensor on either the pump station enclosure or the side of the controller.
6	Install the flow sensor as per plan detail and manufacturers instructions. Program controller to learn flow of all zones, maximize flow and shut down and alert on zone over-flow.
7	Recharge well to provide 60 gpm at a discharge pressure of 20 psi. See well recharge notes on sheet IR1.12.
8	All mainline piping 3" and larger to be gasket joint with ductile iron gasket joint fittings with manufacturers recommended joint restraint.
9	All ductile iron fittings change of direction fittings to have concrete thrust blocks as well as joint restraint.
10	Install control valve off of the synthetic turf and pipe to the STK-1 package. Install 1" mainline from the mainline prior to the valve to the Quick Coupler valve in the STK-1.
11	Install mainline and control wire 4' off of the back of the curb in the area of the over-flow parking.
12	Convert to HDPE via Ductile Iron fittings and restraints.
13	Directional bore 3" HDPE mainline and control wire under the wetland. Maintain 36" of cover over the HDPE pipe.

### CRITICAL ANALYSIS

Generated:	2020-06-08 16:06
P.O.C. NUMBER: 01	
Water Source Information:	
FLOW AVAILABLE	
Custom Max Flow:	200.00 gpm
Flow Available:	200.00 gpm
PRESSURE AVAILABLE	
Static Pressure at POC:	130.00 psi
Pressure Available:	130.00 psi
DESIGN ANALYSIS	
Maximum Multi-valve Flow:	200.00 gpm
Flow Available at POC:	200.00 gpm
Residual Flow Available:	0.00 gpm
Pressure Req. at Critical Station:	113.11 psi
Loss for Fittings:	0.71 psi
Loss for Main Line:	7.10 psi
Loss for POC to Valve Elevation:	0.00 psi
Loss for Backflow:	0.00 psi
Critical Station Pressure at POC:	120.92 psi
Pressure Available:	130.00 psi
Residual Pressure Available:	9.08 psi



MOUNT PLEASANT, SC  
 843.884.1667  
 GREENVILLE, SC  
 864.298.0534  
 SUMMERVILLE, SC  
 843.972.0710  
 SPARTANBURG, SC  
 864.272.1272  
 CHARLOTTE, NC  
 980.312.5450  
 WWW.SEAMONWHITESIDE.COM

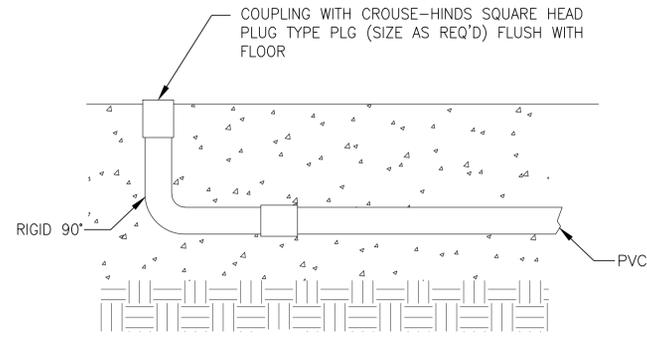


**HANAHAN RECREATION COMPLEX**  
 CITY OF HANAHAN  
 HANAHAN, SOUTH CAROLINA

SW+ PROJECT: 7867  
 DATE: 6/12/20  
 DRAWN BY: MDC  
 CHECKED BY: CPC

REVISION HISTORY	
0	03/11/21
2	04/01/21

IRRIGATION SHEET LAYOUT PLAN

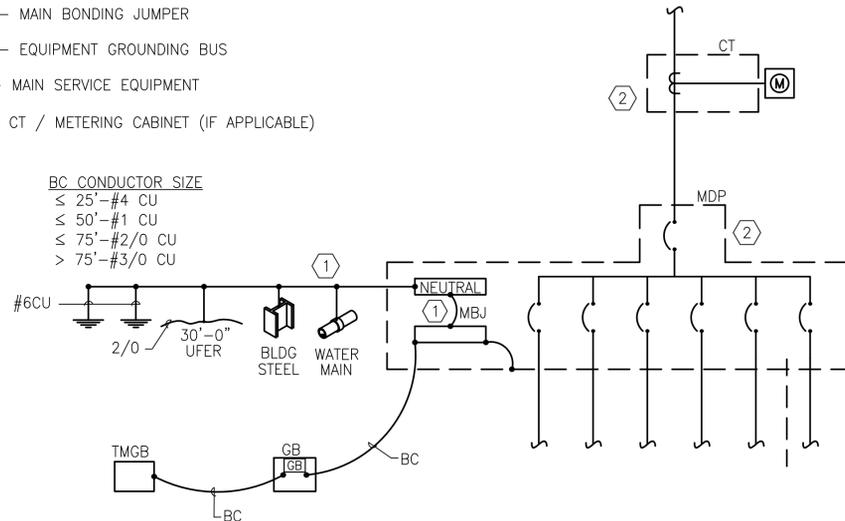


TYPICAL CONDUIT CONNECTION

1  
E501  
DETAIL  
N.T.S.

- NOTES:
- TMGB - TELECOMMUNICATIONS MAIN GROUNDING BUS.
  - GB - INTERSYSTEM BONDING TERMINAL.
  - BC - BONDING CONDUCTOR.
  - MBJ - MAIN BONDING JUMPER
  - EGB - EQUIPMENT GROUNDING BUS
  - MS - MAIN SERVICE EQUIPMENT
  - CT - CT / METERING CABINET (IF APPLICABLE)

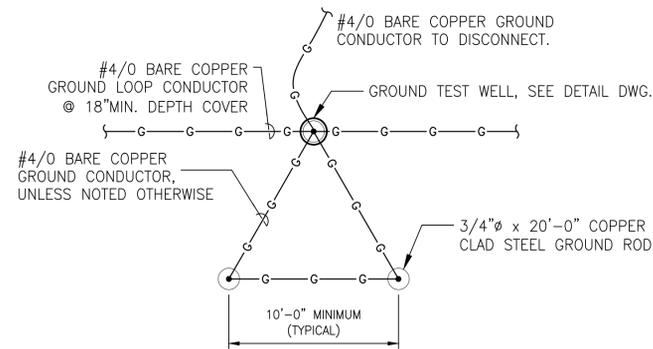
- NOTES:
- 1 SIZE PER NEC 250.66.
  - 2 PROVIDE GROUNDING/BONDING SYSTEM CONNECTIONS TO MAIN ELECTRICAL SERVICE AT THE LOCATION OF THE THE MAIN SERVICE DISCONNECT.



- BC CONDUCTOR SIZE
- ≤ 25' - #4 CU
  - ≤ 50' - #1 CU
  - ≤ 75' - #2/0 CU
  - > 75' - #3/0 CU

TYPICAL ELECTRICAL SERVICE GROUNDING/BONDING

2  
E5-01  
DETAIL  
N.T.S.

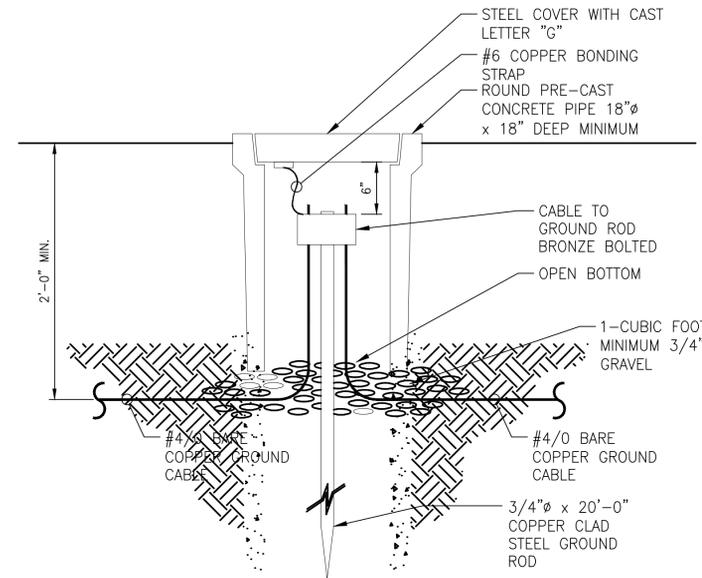


GROUNDING TRIAD

3  
E5-01  
DETAIL  
N.T.S.

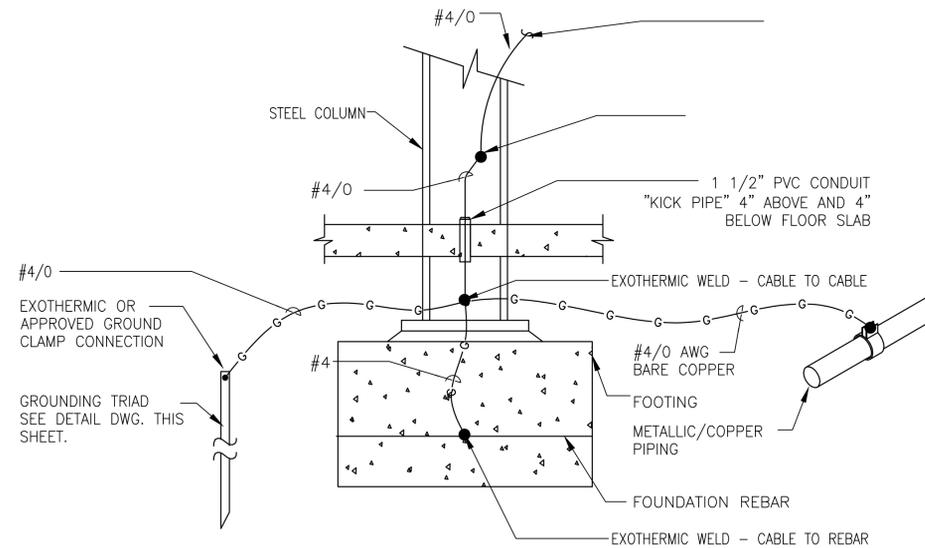
LIGHTING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	VOLTAGE	LAMPS	FIXTURE WATTAGE	NOTES
A	RECESSED	LITHONIA LIGHTING	BLC 2X4 4000LM 80CRI 35K ADSN MIN10 ZT	120V	LED	36W	2X4 TROFFER
B	SURFACE MOUNTED	LITHONIA LIGHTING	2BLTX4 40L ADP EZ1 LP840	120V	LED	34W	2X4 TROFFER
C	WALL MOUNT	CONTECH LIGHTING	CY3T 3 40K W X WF BZ RD	120V	LED	20W	UP/DOWN LIGHT
D	WALL MOUNT	DUAL LITE	PG 7	120V	LED	3W	CONNECTED TO BATTERY BACKUP
E	WALL OR CEILING MOUNT	LITHONIA LIGHTING	ECRG SQ M6	120V	LED	3.5W	GREEN LED EXIT/UNIT COMBO, SQUARE LAMP HEADS
E1	WALL MOUNT	LITHONIA LIGHTING	EU2C	120V	LED	3W	WITH BATTERY BACKUP, SQUARE LAMP HEADS



GROUNDING TEST WELL, TRAFFICE RATED

4  
E5-01  
DETAIL  
N.T.S.



TYPICAL GROUNDING CONNECTION AT BUILDING STEEL

5  
E5-01  
DETAIL  
N.T.S.

KARPUS DESIGN, LLC  
P.O. Box 986  
Summerville, South Carolina, 29484  
ph: 843.425.4124 | fax: 843.832.7331  
karpusdesign.com

LOC  
Live Oak Consultants, LLC  
P.O. Box 60490  
Newport News, Virginia 23606  
www.LiveOakConsultants.com  
Project #: 20200158

New Recreation Building for:  
**HANAHAN CITY PARK**  
City of Hanahan  
Hanahan, South Carolina

SOUTH CAROLINA  
LIVE OAK CONSULTANTS LLC  
NO. 3886  
STATE OF SOUTH CAROLINA

SOUTH CAROLINA  
No. 15521  
04/01/21  
ROBERT N. BAIRD

BID SET

Rev.	Date	Description
0	03.11.2021	BID SET
2	04.01.2021	LIGHTING CLARIFICATION

DRAWN BY: D. GRANGER  
CHECKED BY: R. BAIRD  
PROJECT NUMBER: 19006  
DATE: 09.21.2020

SHEET TITLE:  
**ELECTRICAL DETAILS, & SCHEDULES**  
SHEET NUMBER:  
**E501**

**ADDENDUM 2**  
**DATE: 4/01/2021**

# HANAHAN RECREATION COMPLEX

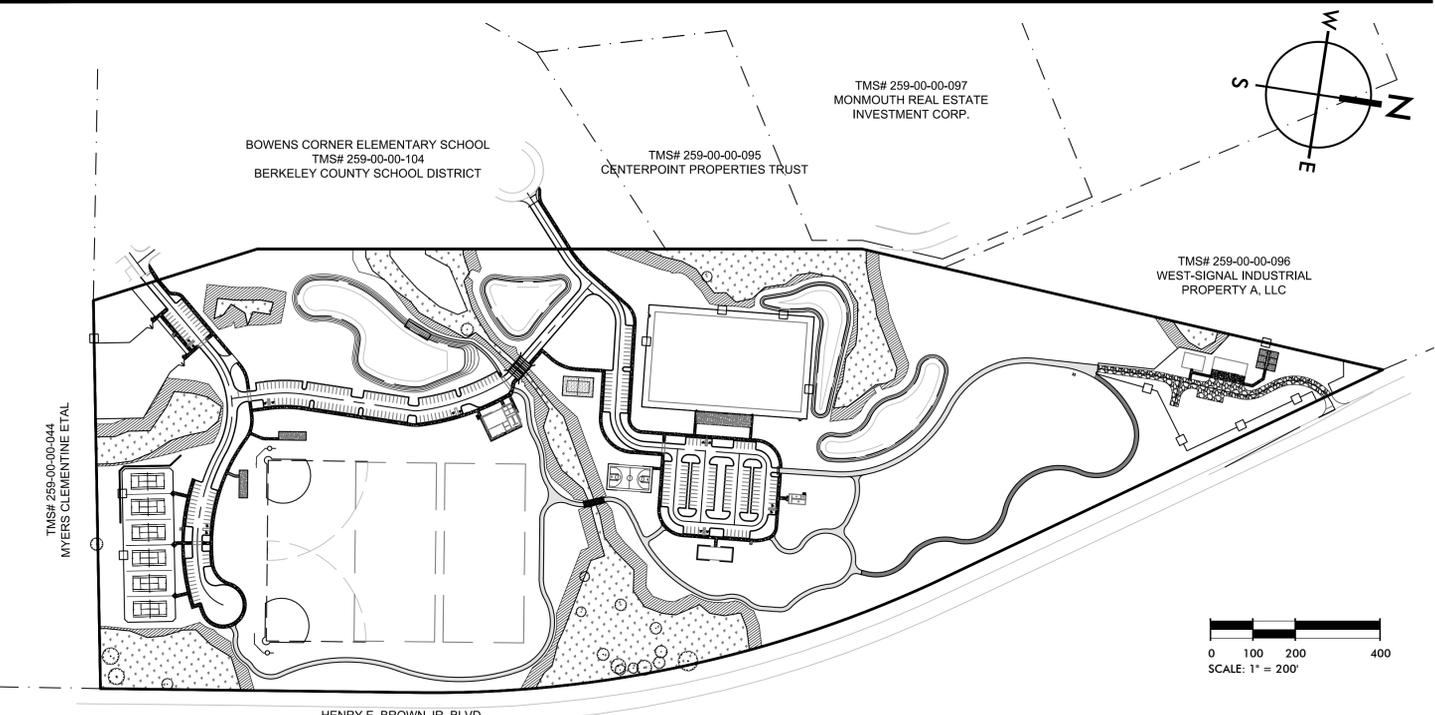
## HANAHAN, SOUTH CAROLINA

### TMS# 259-00-00-189

#### SITE LOCATION MAP



#### SITE OVERVIEW



#### PROJECT CONTACTS

**OWNER/DEVELOPER:**  
CITY OF HANAHAN  
1255 YEAMANS HALL ROAD  
HANAHAN, SC 29410  
CONTACT: MIKE COCHRAN  
PHONE: 843-266-0958

**CIVIL ENGINEER:**  
SEAMON WHITESIDE & ASSOCIATES  
128 S. MAIN STREET, #B  
SUMMERVILLE, SC 29483  
CONTACT: TAYLOR HART, P.E.  
PHONE: 843-972-0710 EXT 283

**MUNICIPALITY CONTACTS:**  
CITY OF HANAHAN PLANNING & ZONING  
CONTACT: JEFF HAJEK  
PHONE: 843-554-4221

**UTILITY CONTACTS:**  
BERKELEY COUNTY WATER & SEWER  
CONTACT: RYAN GATLIN  
PHONE: 843-719-2319

**BERKELEY COUNTY ENGINEERING/MS4**  
CONTACT: SHAWN PULLEY  
PHONE: 843-719-2321

**CHARLESTON WATER SYSTEM**  
CONTACT: LYDIA OWENS  
PHONE: 843-727-6869

**SCDOT**  
CONTACT: WADE GROOMS  
PHONE: 843-746-6748 (EXT 748)

**SCDHEC-OCRM**  
CONTACT: PAMELA WINKLER  
PHONE: 843-953-5324

**SURVEYOR:**  
SOUTHEASTERN LAND SURVEYING, LLC.  
1035-B JENKINS ROAD  
CHARLESTON, SC 29407  
CONTACT: MIKE SCHMIEDER  
PHONE: 843-795-9330

**CITY OF HANAHAN FIRE DEPARTMENT**  
CONTACT: BO BOWERS  
PHONE: 843-297-7870

SEE SHEET C1.1 FOR  
DETAILED REVISION HISTORY

SEE ARCHITECT PLANS  
FOR BUILDING SHEET INDEX

#### PROJECT DESCRIPTION

THE CITY OF HANAHAN PLANS TO DEVELOP A 53.31 ACRE TRACT OF LAND ON HENRY BROWN JR. BLVD. (FORMERLY N. RHETT BLVD.) INTO A NEW CITY PARK AND RECREATION COMPLEX. SITE IMPROVEMENTS WILL INCLUDE: STORMWATER PONDS, ASSOCIATED DRAINAGE INFRASTRUCTURE, SITE ACCESS ROADS, PARKING LOTS, MULTIPURPOSE ATHLETIC FIELDS, A SYNTHETIC TURF FOOTBALL/SOCCER FIELD, TENNIS COURTS, A SAND VOLLEYBALL COURT, A BASKETBALL COURT, A DOG PARK, TRAIL SYSTEM, RECREATION BUILDING, RESTROOM BUILDING, PICNIC PAVILION, MAINTENANCE AREA, WATER AND SEWER UTILITY EXTENSIONS, AND OTHER SITE ELEMENTS COMMONLY ASSOCIATED WITH A PARK.

#### GENERAL NOTES

**SURVEY INFORMATION:** BOUNDARY, TREE, AND TOPOGRAPHIC INFORMATION PROVIDED BY SOUTHEASTERN LAND SURVEYING, DATED SEPTEMBER 18, 2018. PER SURVEY, ALL ELEVATIONS ARE BASED ON A NAVD 1988 VERTICAL DATUM. HORIZONTAL DATUM IS STATE PLANE NAD 1983 (NAD 83).

**FLOOD ZONE INFORMATION:** BASED ON INFORMATION PROVIDED ON THE INDICATED FIRM MAP, THE PROPERTY APPEARS TO BE LOCATED IN FLOOD ZONE 'X'. SEE COMMUNITY PANELS 45015C0705E AND 45015C0685E, DATED DECEMBER 7, 2018.

**EXISTING UTILITIES WARNING:** THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING ANY WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE WHICH MIGHT OCCUR DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO BEGINNING CONSTRUCTION. ALL DIMENSIONS ARE MEASURED FROM FACE OF CURB OR EDGE OF ASPHALT, WITH THE EXCEPTION OF SIDEWALKS, WHICH ARE MEASURED FROM BACK OF CURB.

**TOTAL SITE ACREAGE:** 53.31 ACRES

**TOTAL LAND DISTURBANCE:** 40.00 ACRES

**TAX MAP INFORMATION:** THIS PROPERTY IS DEPICTED ON TMS #259-00-00-189

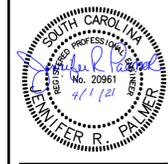
Sheet List Table			
Sheet Number	Sheet Title	3/26/21	04/01/21
C1.0	TITLESHEET	1	2
C1.1	LEGEND & REVISION NOTES	1	2
C2.0	EXISTING CONDITIONS	1	
C2.1	EXISTING CONDITIONS	1	
C2.2	EXISTING CONDITIONS	1	
C2.3	WETLAND SURVEY	1	
C2.4	WETLAND SURVEY	1	
C2.5	WETLAND SURVEY	1	
C3.0	SWPPP PLAN PHASE 1A		
C3.1	SWPPP PLAN PHASE 1A		
C3.2	SWPPP PLAN PHASE 1B		
C3.3	SWPPP PLAN PHASE 1B		
C3.4	SWPPP PLAN PHASE 2		
C3.5	SWPPP PLAN PHASE 2		
C3.6	SWPPP PLAN PHASE 3		
C3.7	SWPPP PLAN PHASE 3		
C3.8	SWPPP NOTES		
C3.9	SWPPP DETAILS		2
C3.10	SWPPP DETAILS		
C3.11	SWPPP DETAILS		2
C4.0	OVERALL SITE PLAN		2
C4.1	SITE PLAN		
C4.2	SITE PLAN		
C4.3	SITE PLAN		
C4.4	SITE PLAN		2
C5.0	SITE DETAILS		
C5.1	SITE DETAILS		2
C5.2	SITE DETAILS		2
C6.0	OVERALL GRADING PLAN		
C6.1	GRADING PLAN		

C6.2	GRADING PLAN	1	
C6.3	GRADING PLAN		
C6.4	GRADING PLAN		
C7.0	OVERALL DRAINAGE PLAN		
C7.1	DRAINAGE PLAN		
C7.2	DRAINAGE PLAN	1	
C7.3	DRAINAGE PLAN		
C7.4	DRAINAGE PLAN		2
C7.5	DRAINAGE PROFILES	1	
C7.6	DRAINAGE PROFILES		
C7.7	DRAINAGE PROFILES		
C8.0	GRADING & DRAINAGE DETAILS	2	
C8.1	GRADING & DRAINAGE DETAILS		
C9.0	OVERALL WATER & SEWER PLAN	1	
C9.1	WATER & SEWER PLAN	1	
C9.2	WATER & SEWER PLAN	1	
C9.3	WATER & SEWER PLAN	1	
C9.4	WATER & SEWER PLAN	1	
C9.5	WATER & SEWER PLAN	1	
C9.6	WATER & SEWER PLAN	1	
C9.7	WATER & SEWER PLAN	1	
C9.8	WATER PROFILES	1	
C9.9	WATER PROFILES	1	
C9.10	WATER PROFILES	1	
C9.11	SEWER PROFILES		
C9.12	SEWER PROFILES		
C10.0	SEWER DETAILS		
C10.1	WATER DETAILS		
C10.2	WATER DETAILS		
C10.3	WATER DETAILS	1	
L1.0	HARDSCAPE DETAILS	2	
L1.1	HARDSCAPE DETAILS		
L1.2	HARDSCAPE DETAILS	2	
L1.3	HARDSCAPE DETAILS		

L1.4	HARDSCAPE DETAILS		
L2.0	LANDSCAPE PLAN		
L2.1	LANDSCAPE PLAN	1	
L2.2	LANDSCAPE PLAN		
L2.3	LANDSCAPE PLAN		
L2.4	PLANT SCHEDULE, DETAILS AND NOTES		
E1.1	SITE ELECTRICAL PLAN		
E1.2	SITE ELECTRICAL PLAN		
E1.3	SITE ELECTRICAL PLAN		
E2.1	POWER DISTRIBUTION DETAILS		
E2.2	LIGHTING & MISC. DETAILS		
E2.3	POWER DISTRIBUTION DETAILS		
E2.4	ELECTRICAL PANEL SCHEDULES & DETAILS		
E2.5	EXTERIOR EQUIPMENT MOUNTING DETAIL		
IR1.0	IRRIGATION SHEET LAYOUT PLAN	2	
IR1.1	IRRIGATION PLAN		
IR1.2	IRRIGATION PLAN		
IR1.3	IRRIGATION PLAN		
IR1.4	IRRIGATION PLAN		
IR1.5	IRRIGATION PLAN		
IR1.6	IRRIGATION PLAN		
IR1.7	IRRIGATION PLAN		
IR1.8	IRRIGATION PLAN		
IR1.9	IRRIGATION PLAN		
IR1.10	IRRIGATION PLAN, NOTES AND DETAILS		
IR1.11	IRRIGATION DETAILS		
IR1.12	IRRIGATION DETAILS		
SP1	GENERAL SEPTIC NOTES		
SP2	SEPTIC SITE PLAN & LAYOUT		
SP3	SEPTIC DETAILS		
SP4	SEPTIC DETAILS		
SP5	SEPTIC DETAILS		
SP6	SEPTIC DETAILS		

**SW**  
SEAMON WHITESIDE

MOUNT PLEASANT, SC  
843.884.1667  
GREENVILLE, SC  
864.298.0534  
SUMMERVILLE, SC  
843.972.0710  
SPARTANBURG, SC  
864.298.0534  
CHARLOTTE, NC  
980.312.5450  
WWW.SEAMONWHITESIDE.COM



**HANAHAN RECREATION COMPLEX**  
CITY OF HANAHAN  
HANAHAN, SOUTH CAROLINA

SW+ PROJECT: 7867  
DATE: 06/12/20  
DRAWN BY: BET  
CHECKED BY: JRP

REVISION HISTORY	
A	6/12/20
B	10/29/20
C	01/22/21
0	03/11/21
1	03/26/21
2	04/01/21

TITLESHEET

THIS DRAWING SHALL NOT BE REPRODUCED IN ANY MANNER OR USED FOR ANY PURPOSE WITHOUT WRITTEN PERMISSION. 501 WANDO PARK BOULEVARD, SUITE 200 | MOUNT PLEASANT, SC 29464 | 508 RHETT STREET, SUITE 101 | GREENVILLE, SC 29601. COPYRIGHT © SEAMON WHITESIDE & ASSOCIATES, INC.

501 WANDO PARK BOULEVARD, SUITE 200 | MOUNT PLEASANT, SC 29464 | 508 RHETT STREET, SUITE 101 | GREENVILLE, SC 29601  
 COPYRIGHT © SEAMON, WHITESIDE & ASSOCIATES, INC.

# DRAWING LEGEND

OBJECTS AND SYMBOLS	EXISTING	NEW	OBJECTS AND SYMBOLS	EXISTING	NEW
Adjoining Property Line		N/A	Benchmark		N/A
Centerline		(Same as Existing)	Sanitary Sewer Manhole		
Easement		(Same as Existing)	Sanitary Sewer Manhole ID #	N/A	
Setback		(Same as Existing)	Sanitary Sewer Cleanout		
Sanitary Sewer (Gravity)			Double Sanitary Sewer Service (Residential Only)		
Sanitary Sewer (Force Main)			Single Sanitary Sewer Service (Residential Only)		
Water Line			TYPE 1 Storm Drainage Structure (CI-1)		
Curb & Gutter (Straight)			TYPE 16 Storm Drainage Structure (CI-16)		
Curb & Gutter (Roll)			TYPE 17 Storm Drainage Structure (Right) (CI-17)		
Previous Phase Storm Drain Pipe		N/A	TYPE 17 Storm Drainage Structure (Left) (CI-17)		
Storm Drain Pipe			TYPE 18 Storm Drainage Structure (CI-18)		
Roof Drain			Catch Basin (CB)		
Subsurface Drainage			Isolation Box (IB)		
Silt Fence, Standard			Storm Drainage Junction Box (JB)		
Silt Fence, Reinforced			Yard Inlet (YI)		
Phase Line	N/A		Control Structure (CS)		
Drainage Basin	N/A		Storm Drainage Structure ID #	N/A	
Flood Zone		N/A	Telephone Box	N/A	
Conduit			Telephone Manhole	N/A	
Natural Gas			Electrical Box	N/A	
Overhead Electrical			Electrical Manhole	N/A	
Underground Electrical			Power Pole		
Underground Telephone			Light Pole		
Underground Cable			Fire Hydrant Assembly		
Underground Fiber Optic			Water Blowoff		
Fence			Water Line Bends, Angle Varies	N/A	
Elevation Contour			Water Line Valve		
Revision Cloud (Encloses Revision)	N/A		Water Line Reducer		
			Single Water Service (Residential Only)		
			Double Water Service (Residential Only)		
			Sign		
			ADA Accessible Parking Space		
			Spot Elevation		
			Watershed Area		
			Detail ID #	N/A	
			Keynote	N/A	
			Parking Count ID #	N/A	
			Lot #	N/A	
			Revision ID #	N/A	
			Rip Rap at Pipe Outlet	N/A	

ABBREVIATIONS	EXISTING	NEW	SWPP PLAN LEGEND
Sewer Easement	Ex. S.E.	S.E.	Turf Reinforcement Mat (See Turf and Grasses Species)
Storm Easement	Ex. W.E.	W.E.	Sodding (See Turf and Grasses Species)
Drainage Easement	Ex. D.E.	D.E.	Surface Roughening (Surface Tracking/Stair Stepping-See Detail)
General Utility Easement	Ex. G.U.E.	G.U.E.	Temporary Seeding (See Schedule in EC Notes)
Access Easement	Ex. A.E.	A.E.	Permanent Seeding (See Turf and Grasses Species)
Ingress/Egress Easement	Ex. I/E E.	I/E E.	Mulching (See Turf and Grasses Species)
Pond Maintenance Easement	Ex. P.M.E.	P.M.E.	Typical Lot Erosion Control Plan (See Detail)
Water Surface Elevation	Ex. W.S.E.	W.S.E.	Flexible Growth Medium (See Turf and Grasses Species)
Polyvinyl Chloride Pipe	Ex. PVC	PVC	Erosion Control Blanket (See Turf and Grasses Species)
Reinforced Concrete Pipe	Ex. RCP	RCP	Dust Control
High Density Corrugated Polyethylene Pipe	Ex. HDPE	HDPE	Bonded Fiber Matrix (See Turf and Grasses Species)
Ductile Iron Pipe	Ex. DIP	DIP	Concrete Washout Basin (See Detail)
Corrugated Metal Pipe	Ex. CMP	CMP	Block & Stone Inlet Protection (See Detail)
Home Owner's Association	Ex. HOA	HOA	Temp. Sediment Control Tube (See Tube)
Property Owners Association	Ex. POA	POA	Temp. Rock Ditch Checks (See Detail)
			Turf Reinforcement Mat Outlet Protection (See Detail and Turf and Grasses Species)
			Filter Fabric Inlet Protection (See Detail)
			Temp. Curb Inlet Weep Filter (See Detail)
			Curb Inlet Sediment Filter (See Detail)
			Both Curb Inlet Filters (See Above)
			Construction Entrance
			Grate Gator Inlet Protection (See Detail)

### HATCH PATTERNS

Freshwater Wetland	
Freshwater Wetland Buffer	
Saltwater Marsh	
Saltwater Marsh Buffer	
Limits of Disturbance	
Area to be Permanently Stabilized	

**NOTE:**  
 LEGEND DOES NOT APPLY TO EXISTING CONDITION SHEETS C2.0 - C2.2. THOSE SHEETS ARE SHOWN IN ORIGINAL FORMAT PROVIDED BY THE SURVEYOR

### REVISION SUMMARY

- A. AGENCY SUBMITTALS: 06/12/2020
- B. AGENCY RESUBMITTAL: 10/29/2020
- C. AGENCY RESUBMITTAL: 01/22/2021
- 0. BID SET : 03/11/2021
- 1. ADDENDUM 1: CWS RESUBMITTAL: 03/26/2021
  - SHEET C2.0-C2.5: OFFSITE PROPERTY LINES ADJUSTED.
  - SHEET C6.2: WATER MAIN LOCATION UPDATED NEAR WETLAND CROSSING
  - SHEET C7.2: WATER MAIN LOCATION UPDATED NEAR WETLAND CROSSING
  - SHEET C7.5: WATER MAIN CROSSING LOCATION UPDATED, WATER SERVICE CROSSING ADDED.
  - SHEET C9.0: WATER MAIN LOCATION UPDATED NEAR WETLAND CROSSING.
  - SHEET C9.1: CROSSING NEAR STA 4+20 EXTENDED TO 25'
  - SHEET C9.2: CROSSING NEAR STA 4+20 EXTENDED TO 25'
  - SHEET C9.3: INSTALLATION METHOD FOR WATER MAIN CROSSING WETLAND UPDATED, LABELS UPDATED, AND GATE VALVES RELOCATED.
  - SHEET C9.4-C9.7: WATER MAIN STATIONS UPDATED BASED ON WETLAND CROSSING UPDATE.
  - SHEET C9.8: PROFILE UPDATED BASED ON PLAN CHANGES.
  - SHEET C9.9: PROFILE UPDATES BASED ON PLAN CHANGES.
  - SHEET C9.10: PROFILE UPDATED BASED ON PLAN CHANGES.
  - SHEET C10.3: HDD CONNECTION DETAILS REMOVED, JACK AND BORE DETAILS ADDED.
  - SHEET L2.1: WATER MAIN LOCATION UPDATED NEAR WETLAND CROSSING
- 2. ADDENDUM 2: BIDDER QUESTIONS AND SCDOT COMMENTS: 04/01/2021
  - SHEET C3.9: LABEL ADDED TO CONSTRUCTION ENTRANCE DETAIL
  - SHEET C3.11: DETAIL UPDATED
  - SHEET C4.0: OFOI LIST UPDATED.
  - SHEET C4.4: LABEL UPDATED, NOTE ADDED PER SCDOT COMMENTS, MAINT. BUILDING LABEL UPDATED
  - SHEET C5.1: NOTES UPDATED ON DETAILS 4 AND 5
  - SHEET C5.2: DETAIL UPDATED
  - SHEET C7.4: STRUCTURE E20 UPDATED FROM YI TO CB
  - SHEET C8.0: DETAILS UPDATED
  - SHEET L1.0: DETAILS UPDATED
  - SHEET L1.2: DETAILS UPDATED
  - SHEET IR1.0: NOTES UPDATED

**SEAMON WHITESIDE**  
 MOUNT PLEASANT, SC 29464  
 GREENVILLE, SC 29601  
 SUMMERVILLE, SC 29586  
 SPARTANBURG, SC 29176  
 CHARLOTTE, NC 28202  
 WWW.SEAMONWHITESIDE.COM

**HANAHAN RECREATION COMPLEX**  
 CITY OF HANAHAN  
 HANAHAN, SOUTH CAROLINA

SW+ PROJECT:	7867
DATE:	06/12/20
DRAWN BY:	BET
CHECKED BY:	JRP

REVISION HISTORY	
A	6/12/20
B	10/29/20
C	01/22/21
0	03/11/21
1	03/26/21
2	04/01/21

**LEGEND & REVISION NOTES**

501 WANDO PARK BOULEVARD, SUITE 200 | MOUNT PLEASANT, SC 29464 | 508 RHETT STREET, SUITE 101 | GREENVILLE, SC 29601  
 COPYRIGHT © SEAMON, WHITESIDE & ASSOCIATES, INC.

### SILT FENCE INSTALLATION

**PLAN SYMBOL**  
—SF—SF—

**FLAT-BOTTOM TRENCH DETAIL**

**V-SHAPED TRENCH DETAIL**

**POST INSTALLATION DETAIL**

**FILTER FABRIC INSTALLATION DETAIL**

**PLAN SYMBOL**

**South Carolina Department of Health and Environmental Control**  
**SILT FENCE**  
 STANDARD DRAWING NO. SC-03 Page 1 of 2  
 NOT TO SCALE FEBRUARY 2014 DATE

### SILT FENCE - GENERAL NOTES

- Do not place silt fence across channels or in other areas subject to concentrated flows. Silt fence should not be used as a velocity control BMP. Concentrated flows are any flows greater than 0.5 cfs.
- Maximum sheet or overlaid flow path length to the silt fence shall be 100-feet.
- Maximum slope steepness (normal [perpendicular] to the fence line) shall be 2:1.
- Silt fence joints, when necessary, shall be completed by one of the following options:
  - Wrap each fabric together at a support post with both ends fastened to the post, with a 1-foot minimum overlap.
  - Overlap silt fence by installing 3-feet passed the support post to which the new silt fence roll is attached. Attach old roll to new roll with heavy-duty plastic ties or.
  - Overlap entire width of each silt fence roll from one support post to the next support post.
- Attach filter fabric to the steel posts using heavy-duty plastic ties that are evenly spaced within the top 8-inches of the fabric.
- Install the silt fence perpendicular to the direction of the stormwater flow and place the silt fence the proper distance from the toe of steep slopes to provide sediment storage and access for maintenance and cleanout.
- Install Silt Fence Checks (Tie-Backs) every 50-100 feet, dependent on slope, along silt fence that is installed with slope and where concentrated flows are expected or are documented along the proposed/installed silt fence.

### SILT FENCE - POST REQUIREMENTS

- Silt fence posts must be 48-inch long steel posts that meet, at a minimum, the following physical characteristics:
  - Composed of a high strength steel with a minimum yield strength of 50,000 psi.
  - Include a standard "T" section with a nominal face width of 1.38-inches and a nominal "T" length of 1.48-inches.
  - Weight 1.25 pounds per foot (± 8%).
- Posts shall be equipped with projections to aid in fastening of filter fabric.
- Steel posts may need to have a metal soil stabilization plate welded near the bottom when installed along steep slopes or installed in loose soils. The plate should have a minimum cross section of 17-square inches and be composed of 15 gauge steel, at a minimum. The metal soil stabilization plate should be completely buried.
- Install posts to a minimum of 24-inches. A minimum height of 1- to 2-inches above the fabric shall be maintained, and a maximum height of 3 feet shall be maintained above the ground.
- Post spacing shall be at a maximum of 6-feet on center.

### SILT FENCE - FABRIC REQUIREMENTS

- Silt fence must be composed of woven geotextile filter fabric that consists of the following requirements:
  - Composed of fibers consisting of long chain synthetic polymers of at least 85% by weight of polyolefins, polyesters, or polyamides that are formed into a network such that the filaments or yarns retain dimensional stability relative to each other.
  - Free of any treatment or coating which might adversely alter its physical properties after installation.
  - Free of any defects or flaws that significantly affect its physical and/or filtering properties; and
  - Have a minimum width of 36-inches.
- Use only fabric appearing on SC DOT's Qualified Products Listing (QPL), Approval Sheet #34, meeting the requirements of the most current edition of the SC DOT Standard Specifications for Highway Construction.
- 12-inches of the fabric should be placed within excavated trench and toed in when the trench is backfilled.
- Filter fabric shall be purchased in continuous rolls and cut to the length of the barrier to avoid joints.
- Filter fabric shall be installed at a minimum of 24-inches above the ground.

### SILT FENCE - INSPECTION & MAINTENANCE

- The key to functional silt fence is weekly inspections, routine maintenance, and regular sediment removal.
- Regular inspections of silt fence shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall event that produces 1/2-inch or more of precipitation.
- Attention to sediment accumulations along the silt fence is extremely important. Accumulated sediment should be continually monitored and removed when necessary.
- Remove accumulated sediment when it reaches 1/3 the height of the silt fence.
- Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
- Check for areas where stormwater runoff has eroded a channel beneath the silt fence, or where the fence has sagged or collapsed due to runoff overtopping the silt fence. Install checks/tie-backs and/or reinstall silt fence, as necessary.
- Check for tears within the silt fence, areas where silt fence has begun to decompose, and for any other circumstance that may render the silt fence ineffective. Removed damaged silt fence and reinstall new silt fence immediately.
- Silt fence should be removed within 30 days after final stabilization is achieved and once it is removed, the resulting disturbed area shall be permanently stabilized.

**South Carolina Department of Health and Environmental Control**  
**SILT FENCE**  
 STANDARD DRAWING NO. SC-03 Page 2 of 2  
 GENERAL NOTES FEBRUARY 2014 DATE

### REINFORCED SILT FENCE

(NOT TO SCALE)

**PLAN SYMBOL**  
—RSF—RSF—

**South Carolina Department of Health and Environmental Control**  
**SILT FENCE**  
 STANDARD DRAWING NO. SC-03 Page 2 of 2  
 GENERAL NOTES FEBRUARY 2014 DATE

### FLAT-BOTTOM TRENCH DETAIL

**POST INSTALLATION DETAIL**

**FILTER FABRIC INSTALLATION DETAIL**

**PLAN SYMBOL**

**South Carolina Department of Health and Environmental Control**  
**Type A**  
**FILTER FABRIC INLET PROTECTION**  
 STANDARD DRAWING NO. SC-07 PAGE 1 of 2  
 NOT TO SCALE FEBRUARY 2014 DATE

### TYPE A - FILTER FABRIC REQUIREMENTS

- Silt fence must be composed of woven geotextile filter fabric that consists of the following requirements:
  - Composed of fibers consisting of long chain synthetic polymers of at least 85% by weight of polyolefins, polyesters, or polyamides that are formed into a network such that the filaments or yarns retain dimensional stability relative to each other.
  - Free of any treatment or coating which might adversely alter its physical properties after installation.
  - Free of any defects or flaws that significantly affect its physical and/or filtering properties; and
  - Have a minimum width of 36-inches.
- Use only fabric appearing on SC DOT's Qualified Products Listing (QPL), Approval Sheet #34, meeting the requirements of the most current edition of the SC DOT Standard Specifications for Highway Construction.
- 12-inches of the fabric should be placed within excavated trench and toed in when the trench is backfilled.
- Filter fabric shall be purchased in continuous rolls and cut to the length of the barrier to avoid joints.
- Filter fabric shall be installed at a minimum of 24-inches above the ground.

### TYPE A - POST REQUIREMENTS

- Silt fence posts must be 48-inch long steel posts that meet, at a minimum, the following physical characteristics:
  - Composed of a high strength steel with a minimum yield strength of 50,000 psi.
  - Include a standard "T" section with a nominal face width of 1.38-inches and a nominal "T" length of 1.48-inches.
  - Weight 1.25 pounds per foot (± 8%).
- Posts shall be equipped with projections to aid in fastening of filter fabric.
- Install posts to a minimum of 24-inches. A minimum height of 1- to 2-inches above the fabric shall be maintained, and a maximum height of 3 feet shall be maintained above the ground.
- Post spacing shall be at a maximum of 3-feet on center.

### TYPE A - INSPECTION & MAINTENANCE

- The key to functional inlet protection is weekly inspections, routine maintenance, and regular sediment removal.
- Regular inspections of inlet protection shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall event that produces 1/2-inch or more of precipitation.
- Attention to sediment accumulations along the filter fabric is extremely important. Accumulated sediment should be continually monitored and removed when necessary.
- Remove accumulated sediment when it reaches 1/3 the height of the filter fabric. When a sump is installed in front of the fabric, sediment should be removed when it fills approximately 1/3 the depth of the sump.
- Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
- Check for areas where stormwater runoff has eroded a channel beneath the filter fabric, or where the fabric has sagged or collapsed due to runoff overtopping the inlet protection.
- Check for tears within the filter fabric, areas where fabric has begun to decompose, and for any other circumstance that may render the inlet protection ineffective. Removed damaged fabric and reinstall new filter fabric immediately.
- Inlet protection structures should be removed after all the disturbed areas are permanently stabilized. Remove all construction material and sediment, and dispose of them properly. Grade the disturbed area to the elevation of the drop inlet structure crest. Stabilize all bare areas immediately.

**South Carolina Department of Health and Environmental Control**  
**Type A**  
**FILTER FABRIC INLET PROTECTION**  
 STANDARD DRAWING NO. SC-07 PAGE 2 of 2  
 GENERAL NOTES FEBRUARY 2014 DATE

### CURB INLET SEDIMENT FILTER

(NOT TO SCALE)

**PLAN SYMBOL**

**South Carolina Department of Health and Environmental Control**  
**Type A**  
**FILTER FABRIC INLET PROTECTION**  
 STANDARD DRAWING NO. SC-07 PAGE 2 of 2  
 GENERAL NOTES FEBRUARY 2014 DATE

### CONSTRUCTION ENTRANCE - GENERAL NOTES

- Stabilized construction entrances should be used at all points where traffic will egress/ingress a construction site onto a public road or any impervious surfaces, such as parking lots.
- Install a non-woven geotextile fabric prior to placing any stone.
- Install a culvert pipe across the entrance when needed to provide positive drainage.
- The entrance shall consist of 2-inch to 3-inch D50 stone placed at a minimum depth of 6-inches.
- Minimum dimensions of the entrance shall be 24-feet wide by 100-feet long, and may be modified as necessary to accommodate site constraints.
- The edges of the entrance shall be tapered out towards the road to prevent tracking at the edge of the entrance.
- Divert all surface runoff and drainage from the stone pad to a sediment trap or basin or other sediment trapping structure.
- Limestone may not be used for the stone pad.

### CONSTR. ENTRANCE - INSPECTION & MAINTENANCE

- The key to functional construction entrances is weekly inspections, routine maintenance, and regular sediment removal.
- Regular inspections of construction entrances shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall event that produces 1/2-inch or more of precipitation.
- During regular inspections, check for mud and sediment buildup and pad integrity. Inspection frequencies may need to be more frequent during long periods of wet weather.
- Reshape the stone pad as necessary for drainage and runoff control.
- Wash or replace stones as needed and as directed by site inspector. The stone in the entrance should be washed or replaced whenever the entrance fails to reduce the amount of mud being carried off-site by vehicles. Frequent washing will extend the useful life of stone pad.
- Immediately remove mud and sediment tracked or washed onto adjacent impervious surfaces by brushing or sweeping. Flushing should only be used when the water can be discharged to a sediment trap or basin.
- During maintenance activities, any broken pavement should be repaired immediately.
- Construction entrances should be removed after the site has reached final stabilization. Permanent vegetation should replace areas from which construction entrances have been removed, unless area will be converted to an impervious surface to serve post-construction.

**South Carolina Department of Health and Environmental Control**  
**CONSTRUCTION ENTRANCE**  
 STANDARD DRAWING NO. SC-06 PAGE 1 of 2  
 NOT TO SCALE FEBRUARY 2014 DATE

### DRAINAGE INLET WEEP FILTER

(NOT TO SCALE)

**PLAN SYMBOL**

**South Carolina Department of Health and Environmental Control**  
**CONSTRUCTION ENTRANCE**  
 STANDARD DRAWING NO. SC-06 PAGE 2 of 2  
 GENERAL NOTES FEBRUARY 2014 DATE

### REINFORCED SILT FENCE

(NOT TO SCALE)

**PLAN SYMBOL**  
—RSF—RSF—

**South Carolina Department of Health and Environmental Control**  
**SILT FENCE**  
 STANDARD DRAWING NO. SC-03 Page 2 of 2  
 GENERAL NOTES FEBRUARY 2014 DATE

### CURB INLET SEDIMENT FILTER

(NOT TO SCALE)

**PLAN SYMBOL**

**South Carolina Department of Health and Environmental Control**  
**Type A**  
**FILTER FABRIC INLET PROTECTION**  
 STANDARD DRAWING NO. SC-07 PAGE 2 of 2  
 GENERAL NOTES FEBRUARY 2014 DATE

### DRAINAGE INLET WEEP FILTER

(NOT TO SCALE)

**PLAN SYMBOL**

**South Carolina Department of Health and Environmental Control**  
**CONSTRUCTION ENTRANCE**  
 STANDARD DRAWING NO. SC-06 PAGE 2 of 2  
 GENERAL NOTES FEBRUARY 2014 DATE

**SEAMON WHITESIDE & ASSOCIATES, INC.**  
 MOUNT PLEASANT, SC 843.884.1667  
 GREENVILLE, SC 864.298.0534  
 SUMMERVILLE, SC 843.972.0710  
 SPARTANBURG, SC 864.298.0534  
 CHARLOTTE, NC 980.312.5450  
 WWW.SEAMONWHITESIDE.COM

**HANAHAN RECREATION COMPLEX**  
 CITY OF HANAHAN  
 HANAHAN, SOUTH CAROLINA

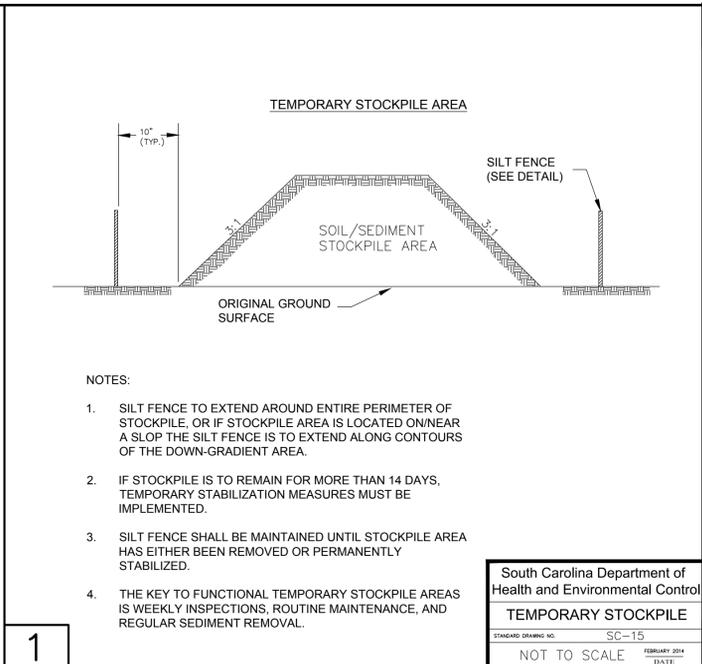
SW+ PROJECT: 7867  
 DATE: 06/12/20  
 DRAWN BY: BET  
 CHECKED BY: JRP

**REVISION HISTORY**  
 A 6/12/20  
 B 10/29/20  
 C 01/22/21  
 D 03/11/21  
 E 04/01/21

**SWPPP DETAILS**

**C3.9**

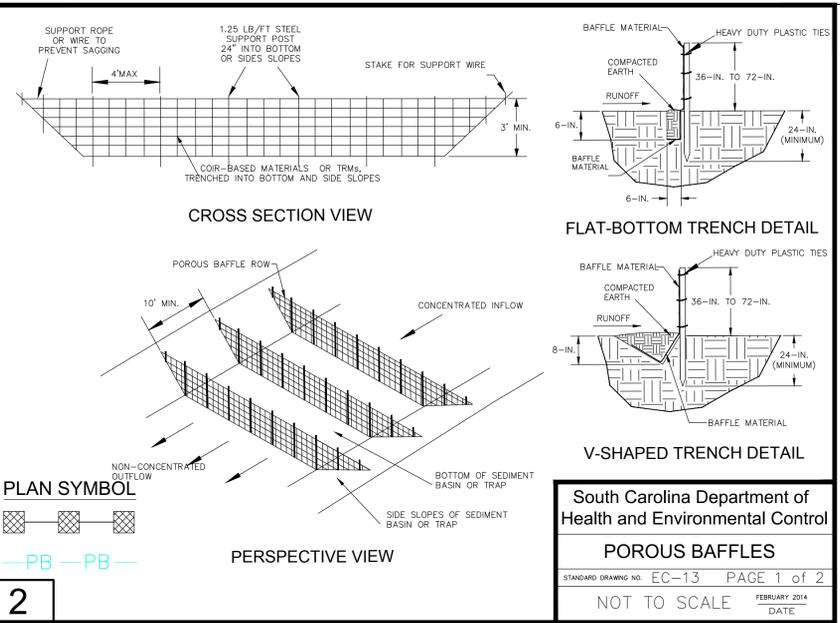
THIS DRAWING SHALL NOT BE REPRODUCED IN ANY MANNER OR USED FOR ANY PURPOSE WITHOUT WRITTEN PERMISSION. 501 WANDO PARK BOULEVARD, SUITE 200 | MOUNT PLEASANT, SC 29464 | 508 RHETT STREET, SUITE 101 | GREENVILLE, SC 29601. COPYRIGHT © SEAMON, WHITESIDE & ASSOCIATES, INC.



- NOTES:**
- SILT FENCE TO EXTEND AROUND ENTIRE PERIMETER OF STOCKPILE, OR IF STOCKPILE AREA IS LOCATED ON/NEAR A SLOPE THE SILT FENCE IS TO EXTEND ALONG CONTOURS OF THE DOWN-GRADIENT AREA.
  - IF STOCKPILE IS TO REMAIN FOR MORE THAN 14 DAYS, TEMPORARY STABILIZATION MEASURES MUST BE IMPLEMENTED.
  - SILT FENCE SHALL BE MAINTAINED UNTIL STOCKPILE AREA HAS EITHER BEEN REMOVED OR PERMANENTLY STABILIZED.
  - THE KEY TO FUNCTIONAL TEMPORARY STOCKPILE AREAS IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR SEDIMENT REMOVAL.

South Carolina Department of Health and Environmental Control  
**TEMPORARY STOCKPILE**  
 STANDARD DRAWING NO. SC-15  
 FEBRUARY 2014 DATE  
 NOT TO SCALE

1

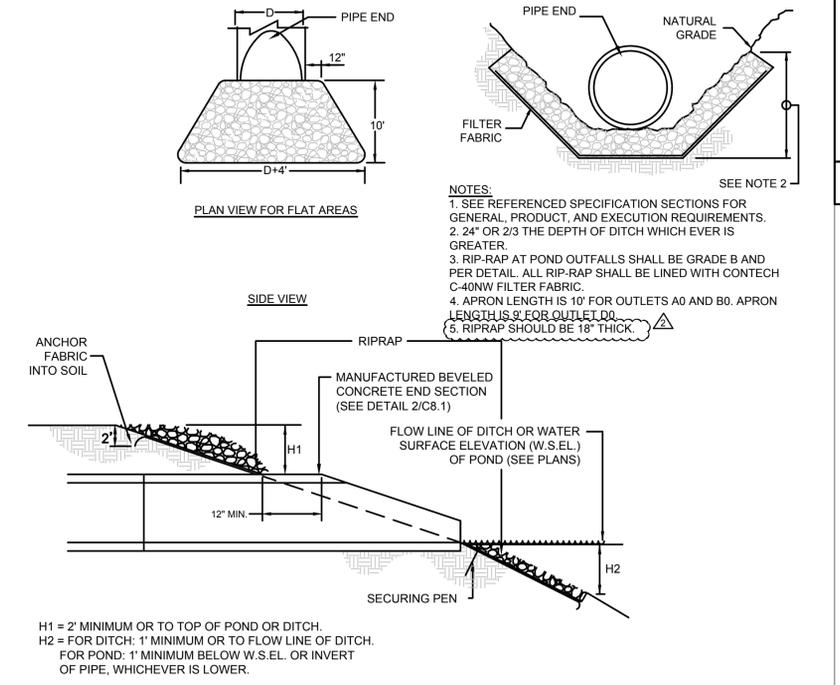


South Carolina Department of Health and Environmental Control  
**POROUS BAFFLES**  
 STANDARD DRAWING NO. EC-13 PAGE 1 of 2  
 FEBRUARY 2014 DATE  
 NOT TO SCALE

2

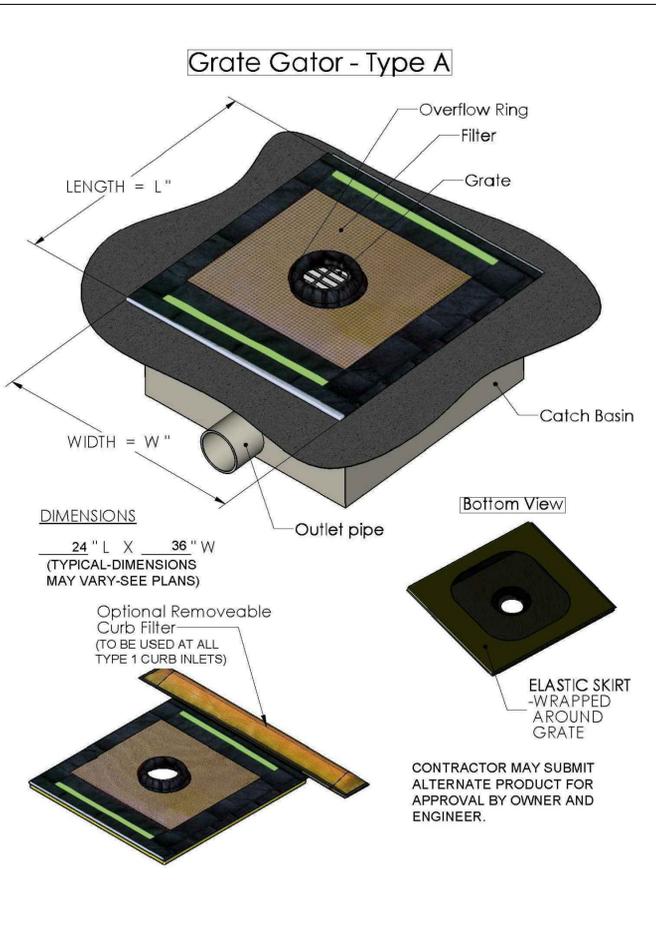
- BAFFLES — POST REQUIREMENTS**
- Porous baffle posts must be 60-inch to 96-inch long steel posts that meet, at a minimum, the following physical characteristics:
    - Composed of a high strength steel with a minimum yield strength of 50,000 psi.
    - Include a standard "T" section with a nominal face width of 1.38-inches and a nominal "T" length of 1.48-inches.
    - Weight 1.25 pounds per foot (± 8%).
  - Posts shall be equipped with projections to aid in fastening of baffle material.
  - Install posts to a minimum of 24-inches. A minimum height of 1- to 2-inches above the fabric shall be maintained, and a maximum height of 3 feet shall be maintained above the ground.
  - Post spacing shall be at a maximum of 4-feet on center.
- BAFFLES — MATERIAL REQUIREMENTS**
- Baffle material must be composed of coir-based materials or Turf Reinforcement Matting (TRM) that consists of the following requirements:
    - Have a light penetration (% openings) between 10–35%.
    - Free of loose straw material.
    - Have a minimum tensile strength of 145 lb/ft; and,
    - Have a minimum width of 48-inches.
  - 12-inches of the fabric should be placed within excavated trench and toed in when the trench is backfilled or baffle material may be stapled into ground by using 12-inch staples with a maximum spacing of 12-inches.
  - Baffle material shall be purchased in continuous rolls and cut to the width of the sediment basin or trap to avoid joints.
- BAFFLES — GENERAL NOTES**
- Attach baffle to the steel posts using heavy-duty plastic ties that are evenly spaced along the above ground portion of each post.
  - Install the baffle rows perpendicular to the direction of the stormwater flow and place each baffle the proper distance from inlet and outlets to allow access for maintenance and clean-out.
- BAFFLES — INSPECTION & MAINTENANCE**
- The key to functional porous baffles is weekly inspection, routine maintenance, and regular sediment removal.
  - Regular inspections of porous baffles shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall event that produces 1/2-inch or more of precipitation.
  - Attention to sediment accumulations along each row of baffles is extremely important. Accumulated sediment should be continually monitored and removed when necessary.
  - Remove accumulated sediment when it reaches 1/3 the height of the baffle row or when it reaches the clean-out height of the sediment basin or trap, whichever is reached first.
  - Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
  - Check for areas where stormwater runoff has eroded a channel beneath each row of baffles, or where the baffle has sagged or collapsed due to runoff overtopping the baffle.
  - Check for tears/rips within the baffles, areas where the baffle has begun to decompose, and for any other circumstances that may render the baffle ineffective. Removed damaged baffles and reinstall new baffles immediately.
  - Porous baffles should be removed within 30 days after final stabilization is achieved and once it is removed, the resulting disturbed area shall be permanently stabilized.

South Carolina Department of Health and Environmental Control  
**POROUS BAFFLES**  
 STANDARD DRAWING NO. SC-13 PAGE 2 of 2  
 FEBRUARY 2014 DATE  
 GENERAL NOTES



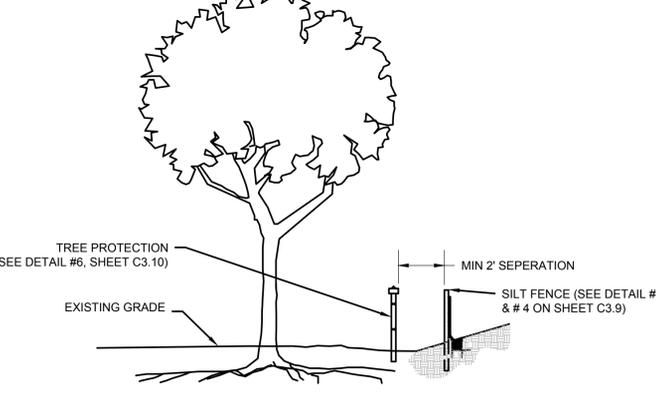
South Carolina Department of Health and Environmental Control  
**RIP RAP APRON AT BEVELED PIPE ENDS**  
 STANDARD DRAWING NO. SC-13 PAGE 2 of 2  
 FEBRUARY 2014 DATE  
 GENERAL NOTES

5



South Carolina Department of Health and Environmental Control  
**GRATE GATOR INLET PROTECTION**  
 STANDARD DRAWING NO. EC-13 PAGE 1 of 2  
 FEBRUARY 2014 DATE  
 NOT TO SCALE

3



South Carolina Department of Health and Environmental Control  
**COMBINED SILT FENCE/TREE PROTECTION**  
 STANDARD DRAWING NO. EC-13 PAGE 1 of 2  
 FEBRUARY 2014 DATE  
 NOT TO SCALE

4

**SEAMON, WHITESIDE & ASSOCIATES, INC.**

MOUNT PLEASANT, SC 843.884.1667  
 GREENVILLE, SC 864.298.0534  
 SUMMERVILLE, SC 843.972.0710  
 SPARTANBURG, SC 864.298.0534  
 CHARLOTTE, NC 980.312.5450  
 WWW.SEAMONWHITESIDE.COM

SEAMON, WHITESIDE & ASSOCIATES, INC.  
 No. C00472  
 STATE OF SOUTH CAROLINA  
 PROFESSIONAL ENGINEER

SEAMON, WHITESIDE & ASSOCIATES, INC.  
 No. 20961  
 STATE OF SOUTH CAROLINA  
 PROFESSIONAL ENGINEER

**HANAHAN RECREATION COMPLEX**

CITY OF HANAHAN  
 HANAHAN, SOUTH CAROLINA

SW+ PROJECT: 7867  
 DATE: 06/12/20  
 DRAWN BY: BET  
 CHECKED BY: JRP

**REVISION HISTORY**

A	6/12/20
B	10/29/20
C	01/22/21
D	03/11/21
2	04/01/21

SWPPP DETAILS

C3.11

THIS DRAWING SHALL NOT BE REPRODUCED IN ANY MANNER OR USED FOR ANY PURPOSE WITHOUT WRITTEN PERMISSION

501 WANDO PARK BOULEVARD, SUITE 200 | MOUNT PLEASANT, SC 29464 | 508 RHETT STREET, SUITE 101 | GREENVILLE, SC 29601

COPYRIGHT © SEAMON, WHITESIDE & ASSOCIATES, INC.



MOUNT PLEASANT, SC 843.884.1667  
 GREENVILLE, SC 864.298.0534  
 SUMMERVILLE, SC 843.972.0710  
 SPARTANBURG, SC 864.298.0534  
 CHARLOTTE, NC 980.312.5450  
 WWW.SEAMONWHITESIDE.COM



**HANAHAN RECREATION COMPLEX**  
 CITY OF HANAHAN  
 HANAHAN, SOUTH CAROLINA

SW+ PROJECT: 7867  
 DATE: 06/12/20  
 DRAWN BY: BET  
 CHECKED BY: JRP

REVISION HISTORY	
A	6/12/20
B	10/29/20
C	01/22/21
D	03/11/21
2	04/01/21

OVERALL SITE PLAN

C4.0

**SITE COVERAGE**

PROPERTY AREA:	53.31 AC
NEW IMPERVIOUS AREA:	6.55 AC
WET POND AREA:	2.25 AC
IMPERVIOUS COVERAGE %:	16.5%

**SIDEWALKS TRAILS:**

44,470 LF (CONCRETE SIDEWALK)
43,870 LF (ASPHALT TRAIL)
1,000 LF (MULCH TRAIL)
49,340 LF (TOTAL)

**SURVEY INFORMATION:** BOUNDARY, TREE, AND TOPOGRAPHIC INFORMATION PROVIDED BY SOUTHEASTERN SURVEYING, DATED SEPTEMBER 18, 2018.  
 PER SURVEY, ALL ELEVATIONS ARE BASED ON A NAVD 1988 VERTICAL DATUM. HORIZONTAL DATUM IS STATE PLANE NAD 1983 (NAD 83).

**FLOOD ZONE INFORMATION:** BASED ON INFORMATION PROVIDED ON THE INDICATED FIRM MAP, THE PROPERTY APPEARS TO BE LOCATED IN FLOOD ZONE 'X'. SEE COMMUNITY PANELS 45015C0705E AND 45015C0685E, DATED DECEMBER 7, 2018.

**TOTAL SITE ACREAGE:** 53.31 ACRES  
**TOTAL LAND DISTURBANCE:** 40.0 ACRES

**TAX MAP INFORMATION:** THIS PROPERTY IS DEPICTED ON TMS #259-00-00-189

**PARKING CALCULATIONS:**  
 NEW STANDARD SPACES: 309  
 OVERFLOW PARKING: +/- 99  
 HANDICAP SPACES: 14  
 TOTAL: 422

SEE SHEET C1.1 FOR LEGEND, AND SHEETS C5.0 - C5.2 FOR SITE DETAILS

**EXISTING UTILITY NOTE:**  
 THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING ANY WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT OCCUR DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

**CONSTRUCTION TRAFFIC NOTE:**  
 NO CONSTRUCTION TRAFFIC FROM 6:30AM - 8:00AM AND 1:30PM - 2:30 PM

- NOTES:**
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO BEGINNING CONSTRUCTION. ALL DIMENSIONS ARE MEASURED FROM FACE OF CURB OR EDGE OF ASPHALT, WITH THE EXCEPTION OF SIDEWALKS, WHICH ARE MEASURED FROM BACK OF CURB, UNLESS OTHERWISE NOTED.
  - WETLANDS ARE NOT TO BE DISTURBED.
  - SEE ARCHITECTURE PLANS FOR BUILDING DIMENSIONS.
  - ALL SITE ROADWAYS TO BE STANDARD DUTY ASPHALT UNLESS OTHERWISE NOTED.
  - SEE ELECTRICAL PLANS FOR LIGHTING.
  - SIDEWALKS ADJACENT TO HEAD IN PARKING TO BE 6' UNLESS OTHERWISE NOTED.
  - THE CONTRACTOR SHALL CONSULT WITH THE OWNER AND LANDSCAPE ARCHITECT PRIOR TO WORK IN SELECTIVE CLEARING AREAS AND REFER TO SPECIFICATION 311000- SITE CLEARING AND EROSION CONTROL.

**SHEET C4.4**

**SHEET C4.3**

**SHEET C4.2**

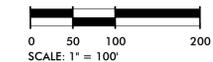
**SHEET C4.1**

- KEY**
- MULTIPURPOSE FIELDS
  - SYNTHETIC TURF FIELD
  - BASKETBALL COURT
  - SAND VOLLEYBALL COURT
  - DOG PARK
  - ASPHALT TENNIS COURTS
  - PLAYGROUND AREA
  - PAVILION
  - RESTROOM BUILDING
  - RECREATION BUILDING
  - MAINTENANCE AREA

**LEGEND**

	WETLAND- DO NOT DISTURB
	WETLAND BUFFER- DO NOT DISTURB
	SELECTIVE CLEARING
	CONCRETE SIDEWALKS
	ASPHALT TRAIL
	MULCH TRAIL
	GABC ROAD
	RETAINING WALL

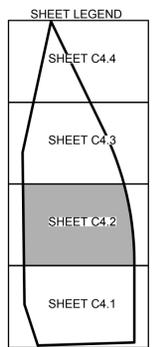
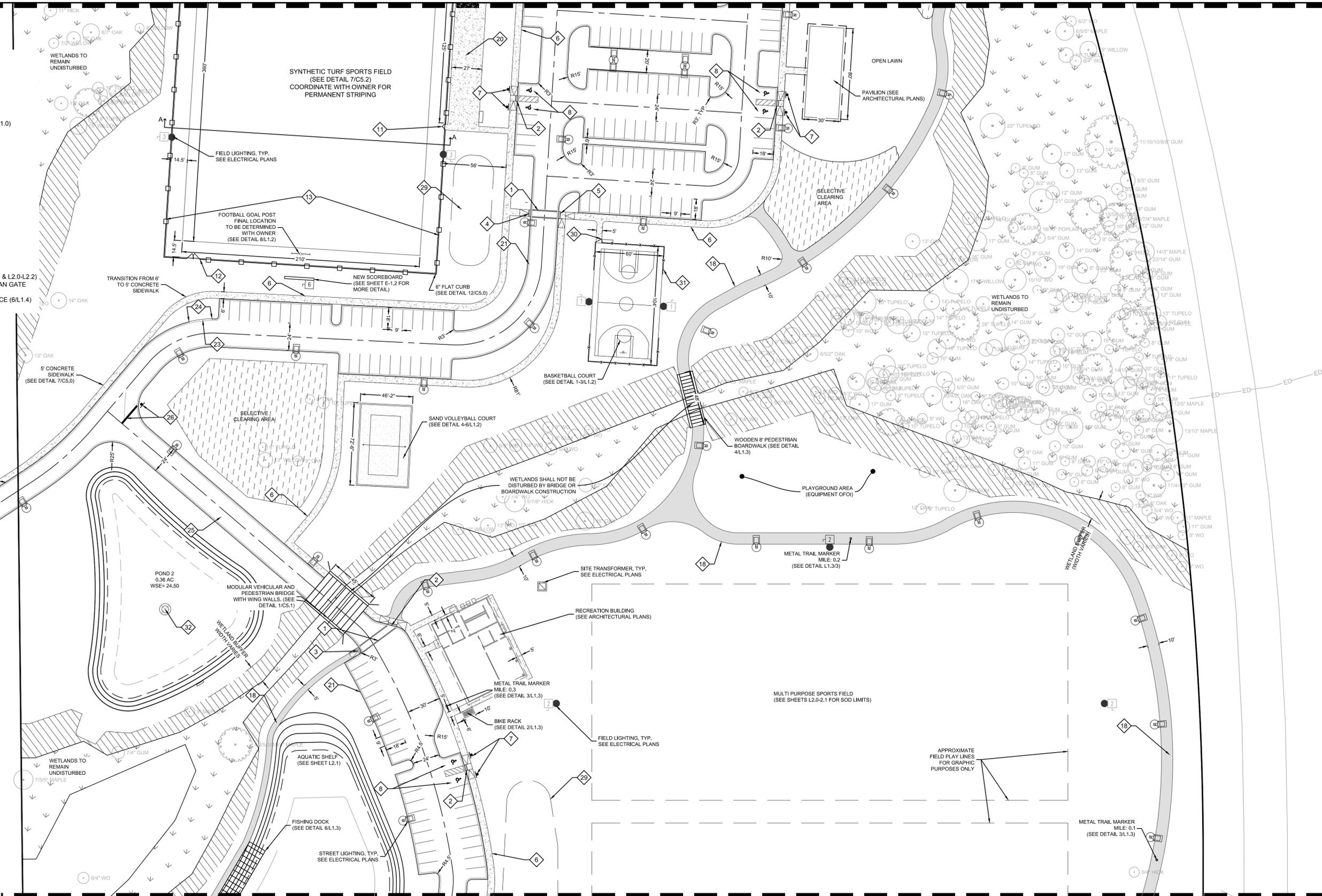
- OWNER FURNISHED, OWNER INSTALLED (OFO) ITEMS**
- PLAYGROUND EQUIPMENT
  - OUTDOOR BLEACHERS
  - MAINTENANCE SHELTER (STRUCTURE AND SLAB)
  - POLE BARN (STRUCTURE AND SLAB)
  - DOG POUND ROOF STRUCTURE



THIS DRAWING SHALL NOT BE REPRODUCED IN ANY MANNER OR FOR ANY PURPOSE WITHOUT WRITTEN PERMISSION.  
 501 WANDO PARK BOULEVARD, SUITE 200 | MOUNT PLEASANT, SC 29464 | 508 RHETT STREET, SUITE 101 | GREENVILLE, SC 29601  
 COPYRIGHT © SEAMON, WHITESIDE & ASSOCIATES, INC.

**KEYNOTE LEGEND**

1. CROSSWALK (10/C5.1)
2. SIDEWALK RAMP TYPE A (11/C5.1)
3. SIDEWALK RAMP TYPE P (12/C5.1)
4. SIDEWALK RAMP TYPE O (8/C5.1)
5. SIDEWALK RAMP TYPE Z (2/C5.1)
6. 6" CONCRETE SIDEWALK (7/C5.0)
7. ADA PARKING SIGN (5/C5.1)
8. ADA PARKING SPACE (10/C5.1)
9. DOG PARK ENTRANCE (1/L1.3)
10. 6' HT CHAIN LINK 17' DOUBLE WIDE GATE (2/L1.0)
11. 4' HT CHAIN LINK SINGLE GATE (3/L1.0)
12. 4' HT CHAIN LINK DOUBLE GATE (2/L1.0)
13. 4' HT CHAIN LINK FENCE (1/L1.0)
14. 6' HT CHAIN LINK FENCE (1/L1.0)
15. 28" TALL CHAIN LINK BACKSTOP (1/L1.1)
16. DOUBLE ARM SWING GATE (7/C5.2)
17. SINGLE ARM SWING GATE (4/C5.2)
18. ASPHALT TRAIL (1/C5.2)
19. DRINKING FOUNTAIN (11/L1.2)
20. CONCRETE BLEACHER PAD (11/C5.0)
21. 18" STRAIGHT CURB & GUTTER (6/C5.0)
22. DEPRESSED CURB END (3/C5.1)
23. 18" ROLLED CURB AND GUTTER (5/C5.0)
24. TRANSITION FROM 18" STRAIGHT CURB AND GUTTER TO 18" ROLLED CURB
25. ASPHALT PAVING (2/C5.0)
26. STOP SIGN & BAR (4/7/C5.1)
27. "ONE WAY ONLY" SIGN (2/C5.2)
28. 4" PAINTED WHITE PARKING STRIPE
29. GRASSED SEATING BERM (SHEETS C6.0-C6.4 & L2.0-L2.2)
30. TENNIS COURT AND BASKETBALL PEDESTRIAN GATE (4/L1.4)
31. 10' HT TENNIS AND BASKETBALL COURT FENCE (6/L1.4)
32. POND FOUNTAIN (3/L1.1)



**SURVEY INFORMATION:** BOUNDARY, TREE, AND TOPOGRAPHIC INFORMATION PROVIDED BY SOUTHEASTERN SURVEYING, DATED SEPTEMBER 18, 2018. PER SURVEY, ALL ELEVATIONS ARE BASED ON A NAVD 1988 VERTICAL DATUM. HORIZONTAL DATUM IS STATE PLANE NAD 1983 (NAD 83).

**FLOOD ZONE INFORMATION:** BASED ON INFORMATION PROVIDED ON THE INDICATED FIRM MAP, THE PROPERTY APPEARS TO BE LOCATED IN FLOOD ZONE 'X'. SEE COMMUNITY PANELS 45015C0705E AND 45015C0885E, DATED DECEMBER 7, 2018.

**TOTAL SITE ACREAGE:** 53.31 ACRES

**TOTAL LAND DISTURBANCE:** 40.0 ACRES

**TAX MAP INFORMATION:** THIS PROPERTY IS DEPICTED ON TMS #259-00-00-189

SEE SHEET C1.1 FOR LEGEND, AND SHEETS C5.0 - C5.2 FOR SITE DETAILS

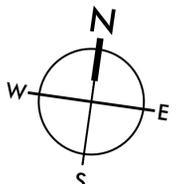
SEE SHEETS L1.0 - L1.4 FOR HARDSCAPE AND RECREATION ELEMENT DETAILS

**NOTES:**

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO BEGINNING CONSTRUCTION. ALL DIMENSIONS ARE MEASURED FROM FACE OF CURB OR EDGE OF ASPHALT, WITH THE EXCEPTION OF SIDEWALKS, WHICH ARE MEASURED FROM BACK OF CURB.
2. CONSTRUCTION TRAFFIC ACROSS MODULAR BRIDGE MUST BE COORDINATED WITH MANUFACTURER FOR WEIGHT LIMITS.

**EXISTING UTILITY NOTE:**

THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING ANY WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT OCCUR DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.



**SW SEAMONWHITESIDE**

MOUNT PLEASANT, SC 843.884.1667  
 GREENVILLE, SC 864.298.0534  
 SUMMERVILLE, SC 843.972.0710  
 SPARTANBURG, SC 864.298.0534  
 CHARLOTTE, NC 980.312.5450  
 WWW.SEAMONWHITESIDE.COM



**HANAHAN RECREATION COMPLEX**  
 CITY OF HANAHAN  
 HANAHAN, SOUTH CAROLINA

SW+ PROJECT: 7867  
 DATE: 06/12/20  
 DRAWN BY: BET  
 CHECKED BY: JRP

REVISION HISTORY	
A	6/12/20
B	10/29/20
C	01/22/21
D	03/11/21

SITE PLAN

THIS DRAWING SHALL NOT BE REPRODUCED IN ANY MANNER OR USED FOR ANY PURPOSE WITHOUT WRITTEN PERMISSION.  
 501 WANDO PARK BOULEVARD, SUITE 200 | MOUNT PLEASANT, SC 29464 | 508 RHETT STREET, SUITE 101 | GREENVILLE, SC 29601  
 COPYRIGHT © SEAMON, WHITESIDE & ASSOCIATES, INC.

TMS# 259-00-00-086  
 WEST-SIGNAL INDUSTRIAL PROPERTY A, LLC

SHEET LEGEND	
▲	SHEET C4.4
▬	SHEET C4.3
▬	SHEET C4.2
▬	SHEET C4.1

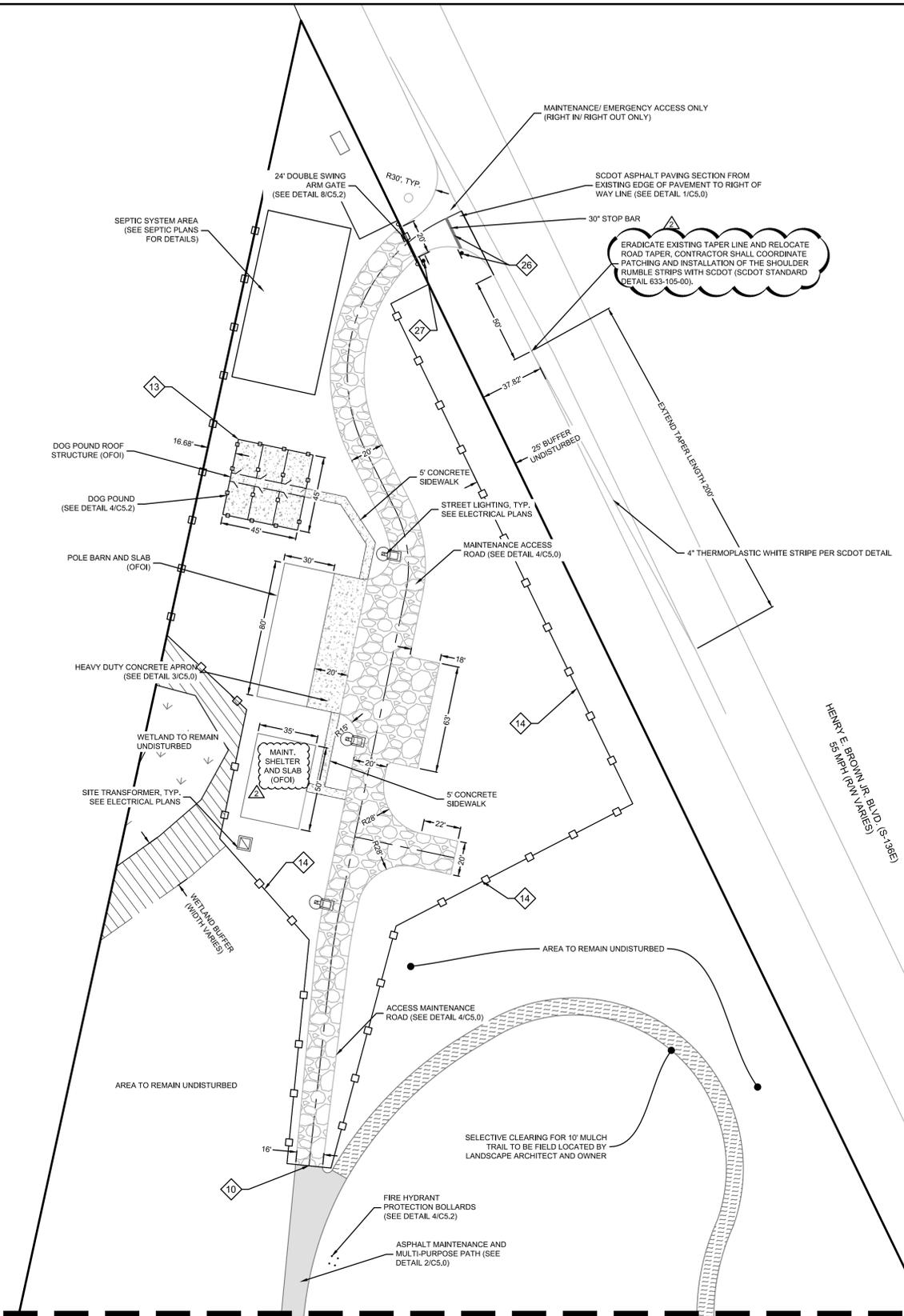
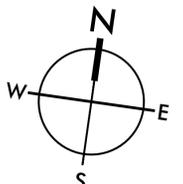
**SURVEY INFORMATION:** BOUNDARY, TREE, AND TOPOGRAPHIC INFORMATION PROVIDED BY SOUTHEASTERN SURVEYING, DATED SEPTEMBER 18, 2018. PER SURVEY, ALL ELEVATIONS ARE BASED ON A NAVD 1988 VERTICAL DATUM. HORIZONTAL DATUM IS STATE PLANE NAD 1983 (NAD 83).  
**FLOOD ZONE INFORMATION:** BASED ON INFORMATION PROVIDED ON THE INDICATED FIRM MAP, THE PROPERTY APPEARS TO BE LOCATED IN FLOOD ZONE "X". SEE COMMUNITY PANELS 45015C0705E AND 45015C0685E, DATED DECEMBER 7, 2018.  
**TOTAL SITE ACREAGE:** 53.31 ACRES  
**TOTAL LAND DISTURBANCE:** 40.0 ACRES  
**TAX MAP INFORMATION:** THIS PROPERTY IS DEPICTED ON TMS #259-00-00-189

SEE SHEET C1.1 FOR LEGEND, AND SHEETS C5.0 - C5.2 FOR SITE DETAILS

SEE SHEETS L1.0 - L1.4 FOR HARDSCAPE AND RECREATION ELEMENT DETAILS

**NOTES:**  
 1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO BEGINNING CONSTRUCTION. ALL DIMENSIONS ARE MEASURED FROM FACE OF CURB OR EDGE OF ASPHALT, WITH THE EXCEPTION OF SIDEWALKS, WHICH ARE MEASURED FROM BACK OF CURB.

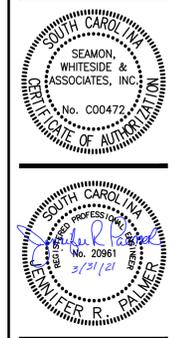
**EXISTING UTILITY NOTE:**  
 THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING ANY WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT OCCUR DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.



**SCDOT NOTE:**  
 WHERE ANY PORTION OF THE ADJACENT SCDOT TRAVEL LANE SURFACE THAT IS DAMAGED ALONG S-136, THE CONTRACTOR SHALL REPLACE THE FULL WIDTH OF THE LANE BY MILLING 2" AND REPAVING PER SCDOT STANDARDS FOR THE LENGTH OF THE DAMAGE PLUS 10 FEET AT EACH END.

- KEYNOTE LEGEND**
- CROSSWALK (10/C5.1)
  - SIDEWALK RAMP TYPE A (11/C5.1)
  - SIDEWALK RAMP TYPE P (12/C5.1)
  - SIDEWALK RAMP TYPE O (8/C5.1)
  - SIDEWALK RAMP TYPE Z (2/C5.1)
  - 6" CONCRETE SIDEWALK (7/C5.0)
  - ADA PARKING SIGN (5/C5.1)
  - ADA PARKING SPACE (10/C5.1)
  - DOG PARK ENTRANCE (1/L1.3)
  - 6' HT CHAIN LINK 17' DOUBLE WIDE GATE (2/L1.0)
  - 4' HT CHAIN LINK SINGLE GATE (3/L1.0)
  - 4' HT CHAIN LINK DOUBLE GATE (2/L1.0)
  - 4' HT CHAIN LINK FENCE (1/L1.0)
  - 6' HT CHAIN LINK FENCE (1/L1.0)
  - 28' TALL CHAIN LINK BACKSTOP (1/L1.1)
  - DOUBLE ARM SWING GATE (7/C5.2)
  - SINGLE ARM SWING GATE (4/C5.2)
  - ASPHALT TRAIL (1/C5.2)
  - DRINKING FOUNTAIN (11/L1.2)
  - CONCRETE BLEACHER PAD (11/C5.0)
  - 18" STRAIGHT CURB & GUTTER (6/C5.0)
  - DEPRESSED CURB END (3/C5.1)
  - 18" ROLLED CURB AND GUTTER (5/C5.0)
  - TRANSITION FROM 18" STRAIGHT CURB AND GUTTER TO 18" ROLLED CURB
  - ASPHALT PAVING (2/C5.0)
  - STOP SIGN & BAR (4.7/C5.1)
  - "ONE WAY ONLY" SIGN (2/C5.2)
  - 4" PAINTED WHITE PARKING STRIPE
  - GRASSED SEATING BERM (SHEETS C6.0-C6.4 & L2.0-L2.2)
  - TENNIS COURT AND BASKETBALL PEDESTRIAN GATE (4/L1.4)
  - 10' HT TENNIS AND BASKETBALL COURT FENCE (6/L1.4)
  - POND FOUNTAIN (3/L1.1)

**SEAMON, WHITESIDE & ASSOCIATES, INC.**  
 MOUNT PLEASANT, SC 29464  
 GREENVILLE, SC 29601  
 SUMMERVILLE, SC 29586  
 SPARTANBURG, SC 29586  
 CHARLOTTE, NC 28202  
 WWW.SEAMONWHITESIDE.COM



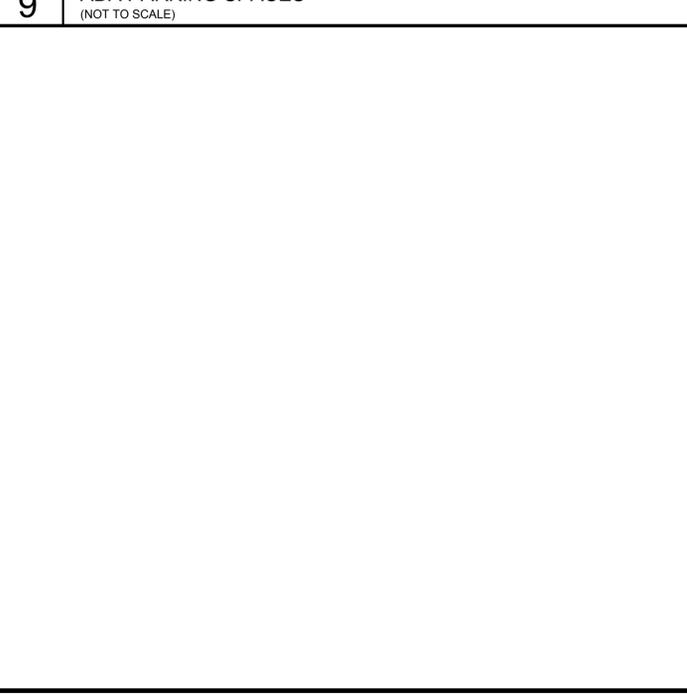
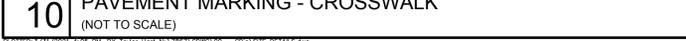
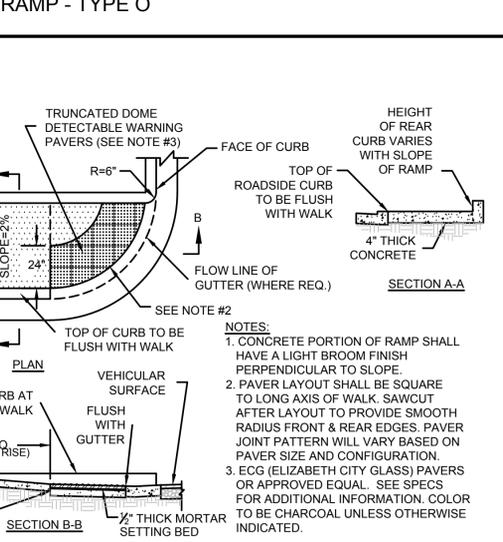
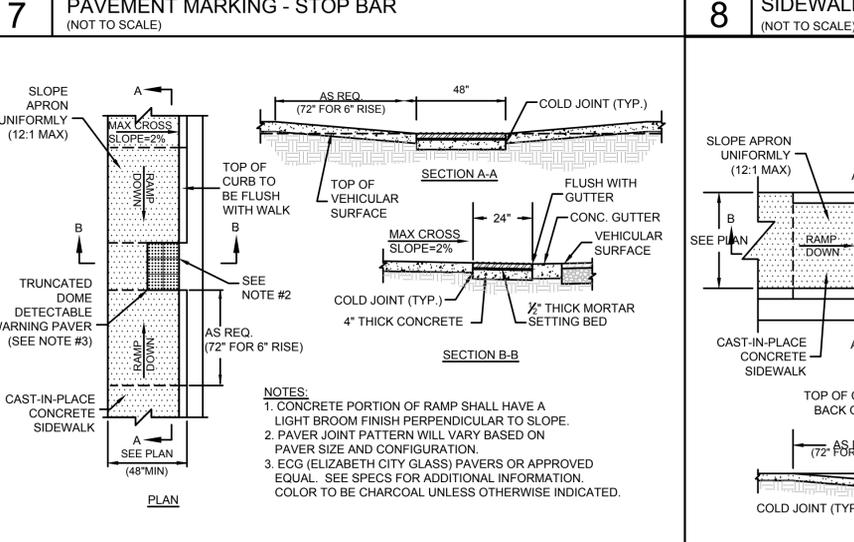
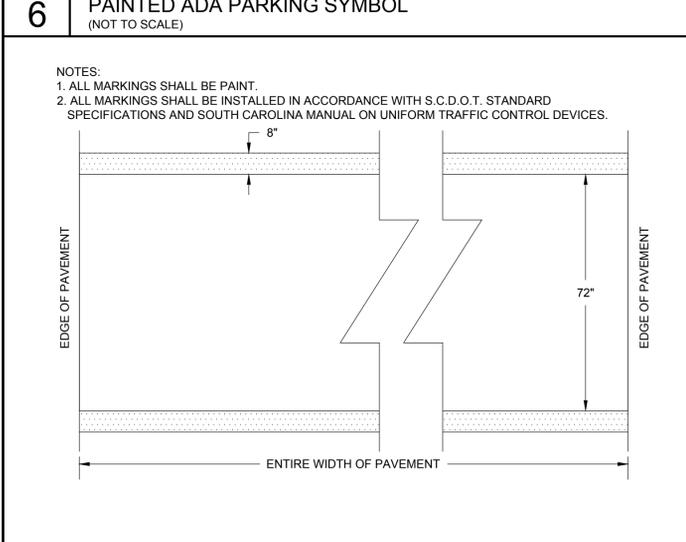
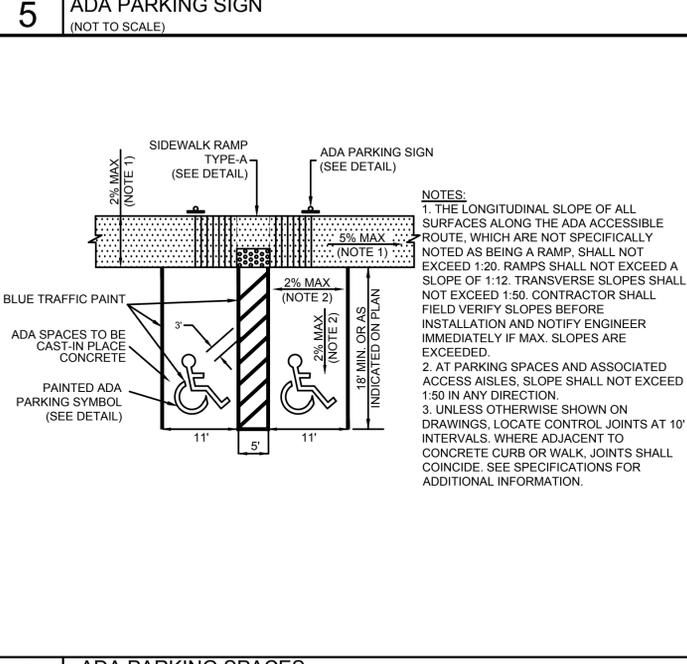
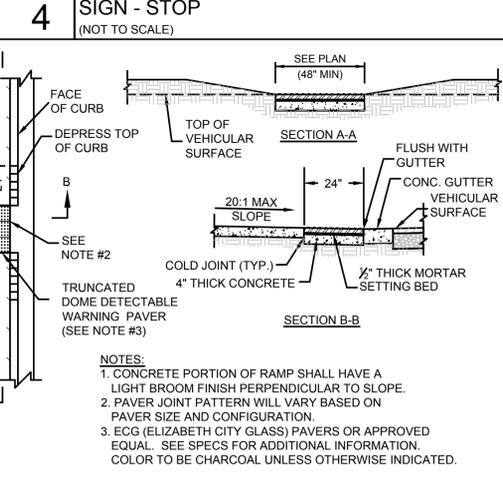
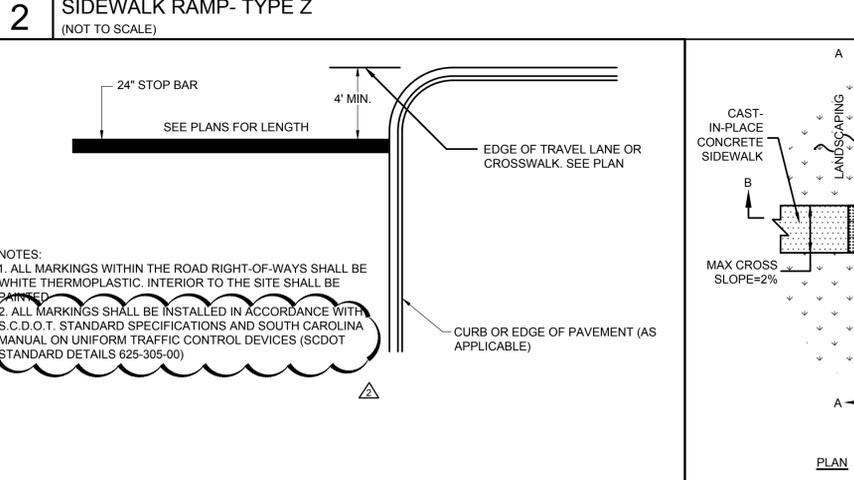
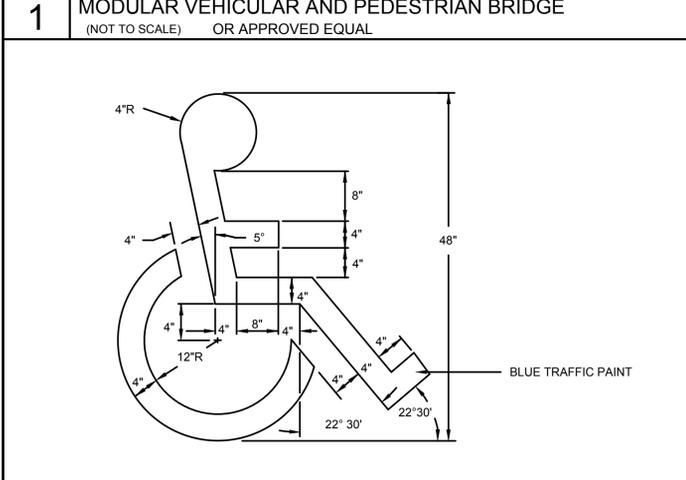
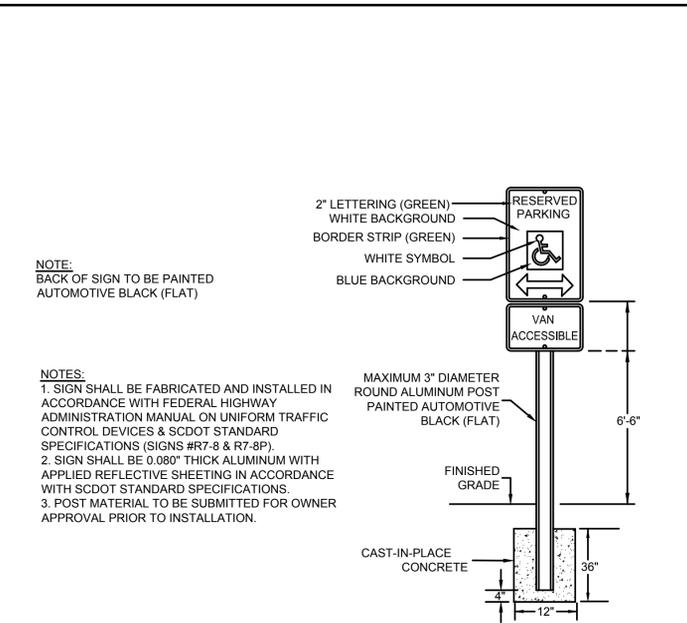
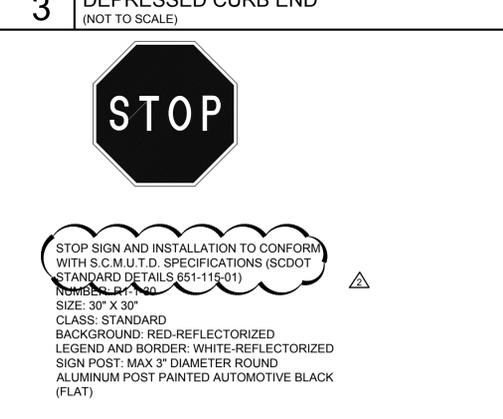
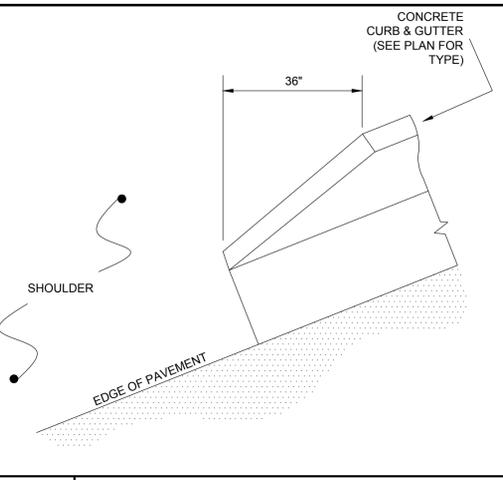
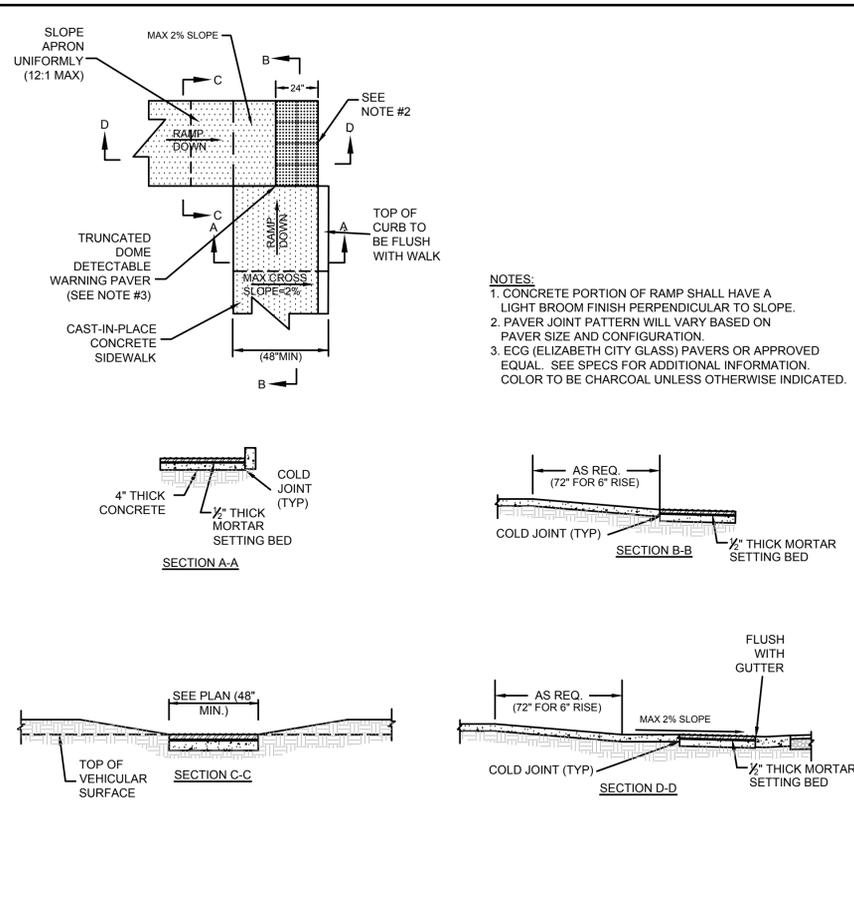
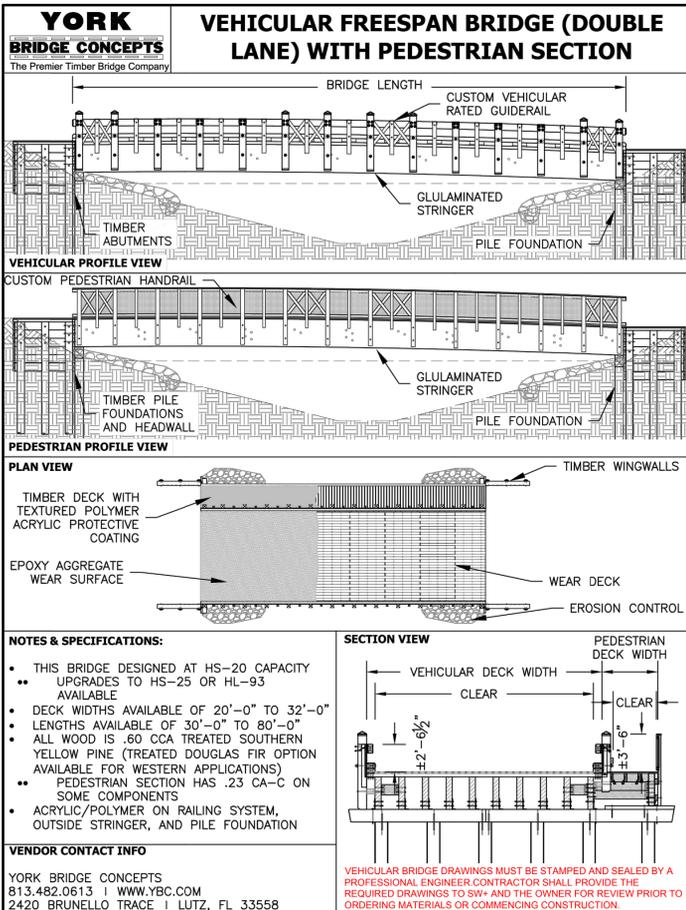
**HANAHAN RECREATION COMPLEX**  
 CITY OF HANAHAN  
 HANAHAN, SOUTH CAROLINA

SW+ PROJECT: 7867  
 DATE: 06/12/20  
 DRAWN BY: BET  
 CHECKED BY: JRP

REVISION HISTORY	
A	6/12/20
B	10/29/20
C	01/22/21
D	03/11/21
2	04/01/21

SITE PLAN

501 WANDO PARK BOULEVARD, SUITE 200 | MOUNT PLEASANT, SC 29464 | 508 RHETT STREET, SUITE 101 | GREENVILLE, SC 29601  
 COPYRIGHT © SEAMON, WHITESIDE & ASSOCIATES, INC.



**SEAMON WHITESIDE & ASSOCIATES, INC.**  
 No. C0047  
 LICENSED PROFESSIONAL ENGINEER  
 SOUTH CAROLINA  
 No. 20961  
 3/21/21

**HANAHAN RECREATION COMPLEX**  
 CITY OF HANAHAN  
 HANAHAN, SOUTH CAROLINA

SW+ PROJECT: 7867  
 DATE: 06/12/20  
 DRAWN BY: BET  
 CHECKED BY: JRP

**REVISION HISTORY**

A	6/12/20
B	10/29/20
C	01/22/21
D	03/11/21
2	04/01/21

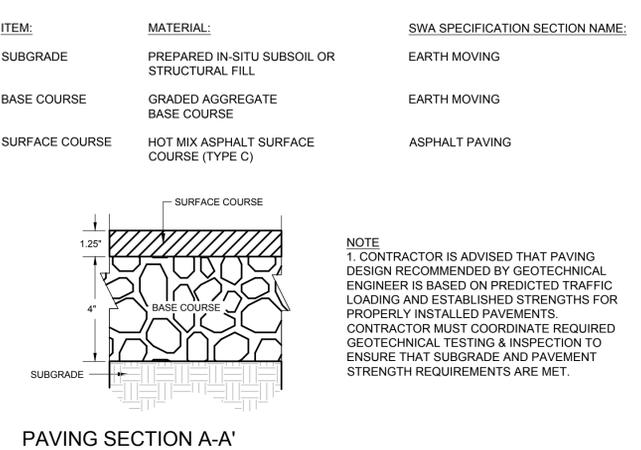
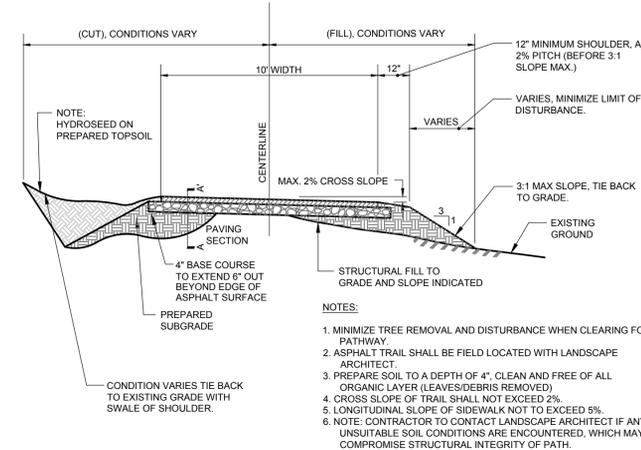
**SITE DETAILS**

C5.1

THIS DRAWING SHALL NOT BE REPRODUCED IN ANY MANNER OR USED FOR ANY PURPOSE WITHOUT WRITTEN PERMISSION.

501 WANDO PARK BOULEVARD, SUITE 200 | MOUNT PLEASANT, SC 29464 | 508 RHETT STREET, SUITE 101 | GREENVILLE, SC 29601

COPYRIGHT © SEAMON, WHITESIDE & ASSOCIATES, INC.

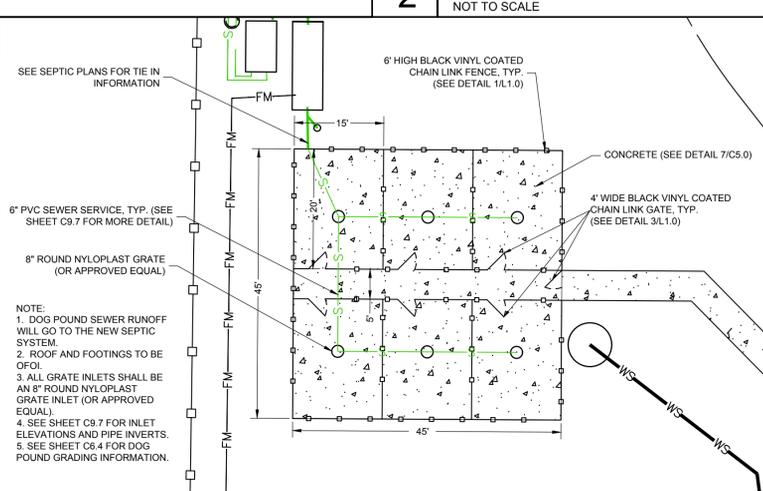
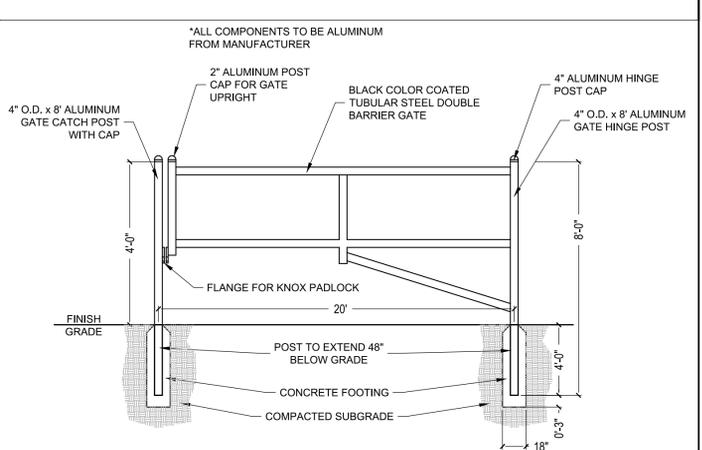
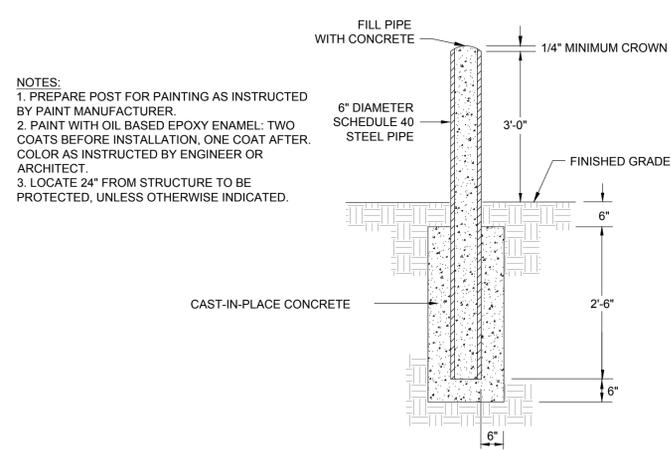


NUMBER: R6-1R-36

ONE-WAY SIGNS AND INSTALLATION TO CONFORM WITH M.U.T.C.D. SPECIFICATIONS.  
 SIZE: 36" X 12"  
 CLASS: STANDARD  
 BACKGROUND AND WORDS: BLACK  
 ARROW AND BORDER: WHITE-REFLECTORIZED  
 SIGN POST: GALVANIZED U-CHANNEL PER SCOTD SPECIFICATIONS

**1 ASPHALT TRAIL**  
(NOT TO SCALE)

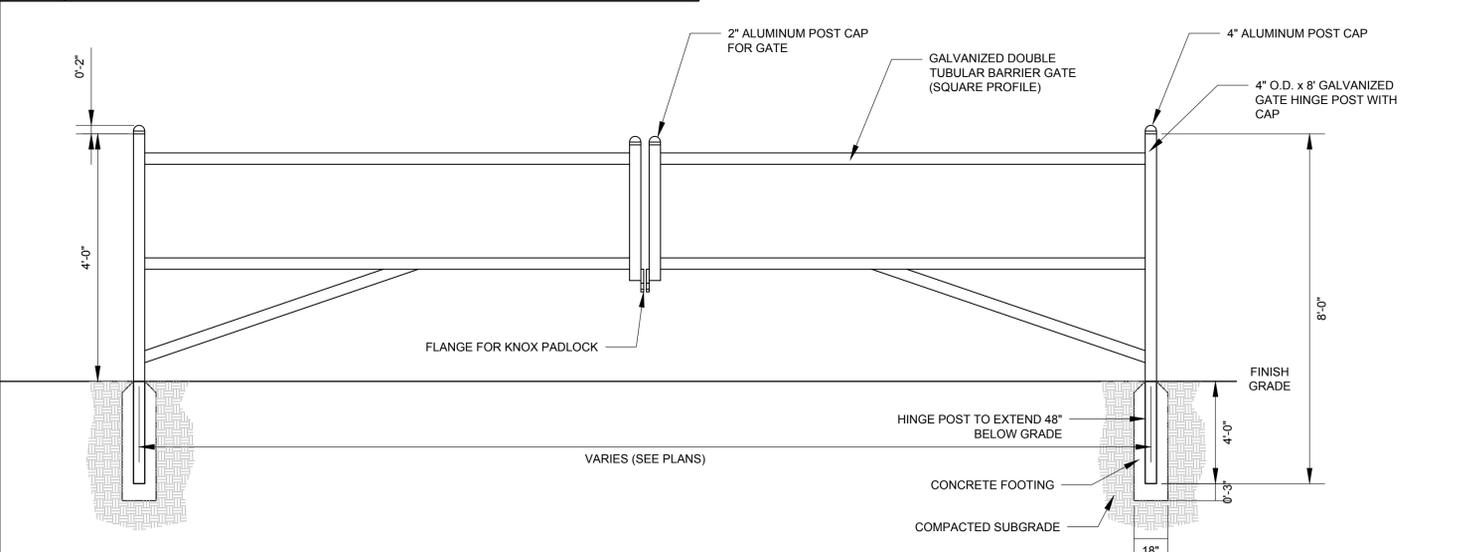
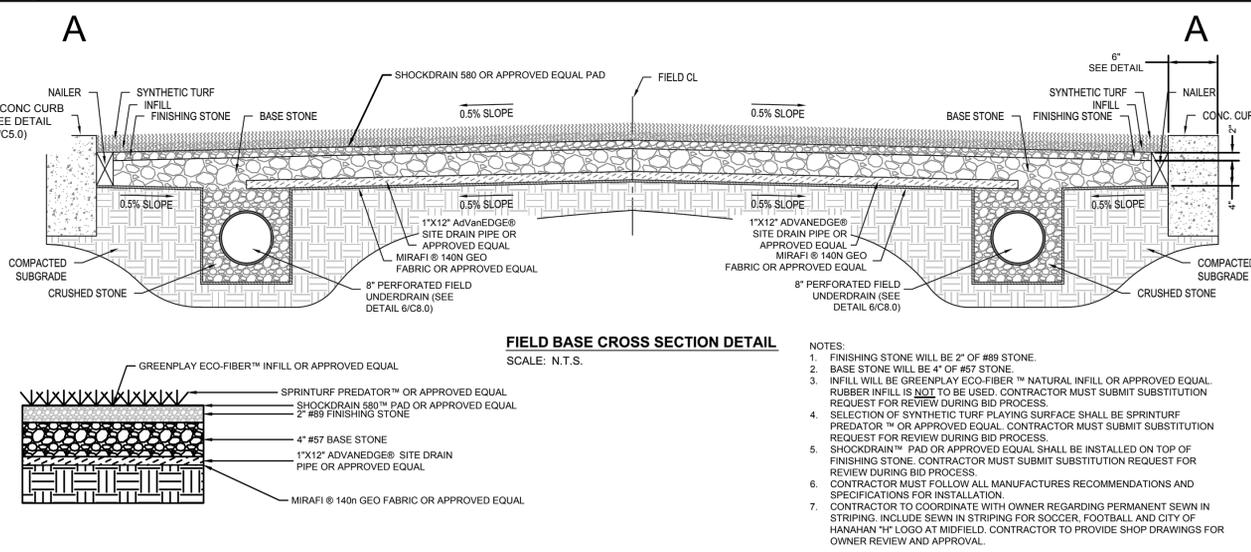
**2 SIGN - ONE - WAY**  
(NOT TO SCALE)



**3 GUARD BOLLARD**  
(NOT TO SCALE)

**4 SINGLE ARM BARRIER GATE**  
(NOT TO SCALE)

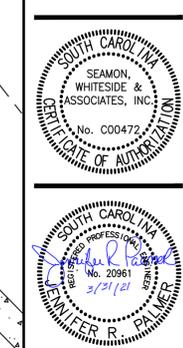
**5 DOG POUND**  
(NOT TO SCALE)



**6 SYNTHETIC TURF FIELD CROSS SECTION**  
(NOT TO SCALE)

**7 DOUBLE SWING ARM BARRIER GATE**  
(NOT TO SCALE)

**SW** SEAMON WHITESIDE  
 MOUNT PLEASANT, SC 843.884.1667  
 GREENVILLE, SC 864.298.0534  
 SUMMERVILLE, SC 843.972.0710  
 SPARTANBURG, SC 864.298.0534  
 CHARLOTTE, NC 980.312.5450  
 WWW.SEAMONWHITESIDE.COM



**HANAHAN RECREATION COMPLEX**  
 CITY OF HANAHAN  
 HANAHAN, SOUTH CAROLINA

SW+ PROJECT: 7867  
 DATE: 06/12/20  
 DRAWN BY: BET  
 CHECKED BY: JRP

REVISION HISTORY	
A	6/12/20
B	10/29/20
C	01/22/21
D	03/11/21
2	04/01/21

SITE DETAILS

501 WANDO PARK BOULEVARD, SUITE 200 | MOUNT PLEASANT, SC 29464 | 508 RHETT STREET, SUITE 101 | GREENVILLE, SC 29601  
 COPYRIGHT © SEAMON, WHITESIDE & ASSOCIATES, INC.



MOUNT PLEASANT, SC 843.884.1667  
 GREENVILLE, SC 864.298.0534  
 SUMMERVILLE, SC 843.972.0710  
 SPARTANBURG, SC 864.298.0534  
 CHARLOTTE, NC 980.312.5450  
 WWW.SEAMONWHITESIDE.COM



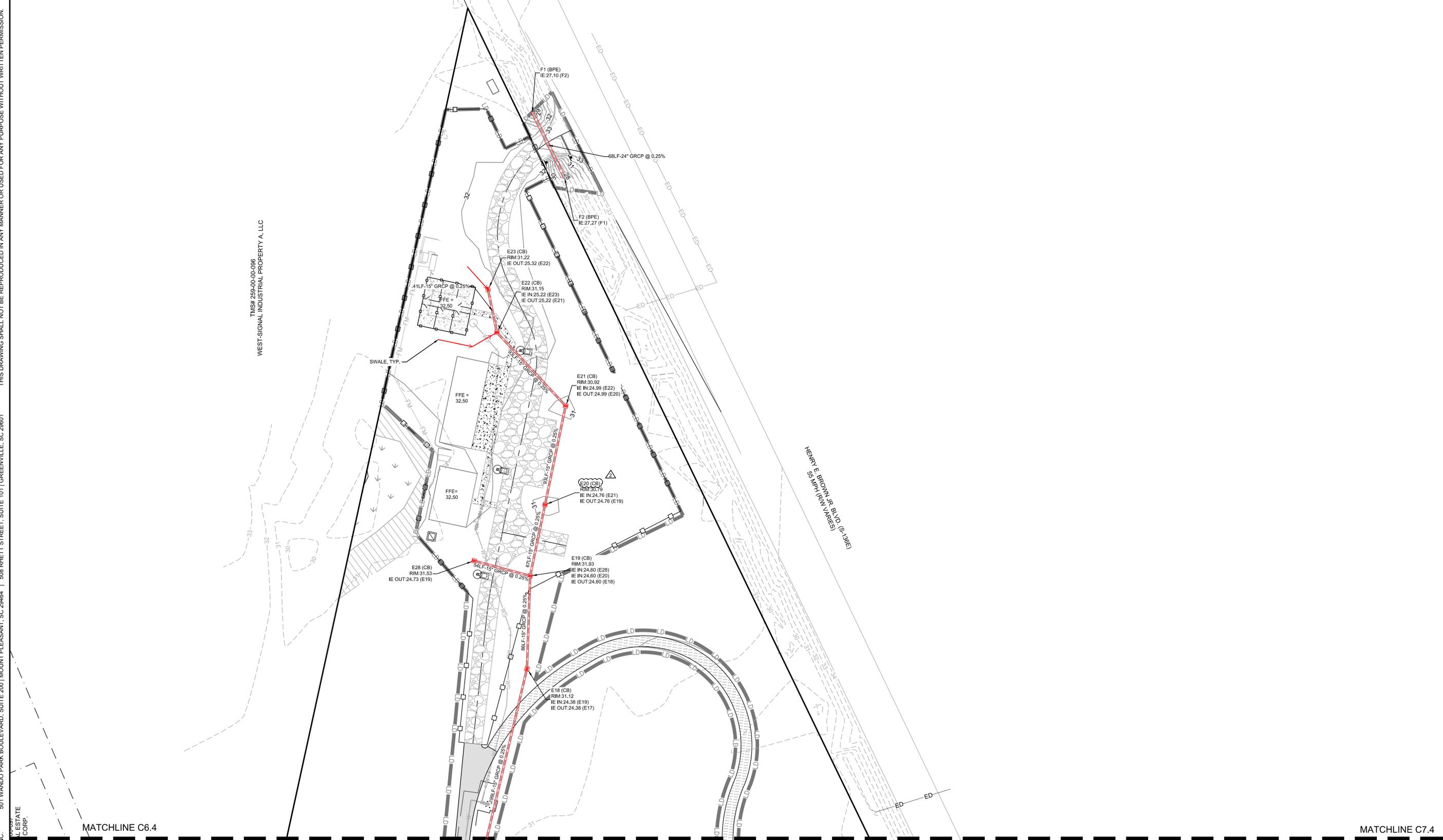
**HANAHAN RECREATION COMPLEX**  
 CITY OF HANAHAN  
 HANAHAN, SOUTH CAROLINA

SW+ PROJECT: 7867  
 DATE: 06/12/20  
 DRAWN BY: BET  
 CHECKED BY: JRP

REVISION HISTORY	
A	6/12/20
B	10/29/20
C	01/22/21
D	03/11/21
2	04/01/21

**DRAINAGE PLAN**

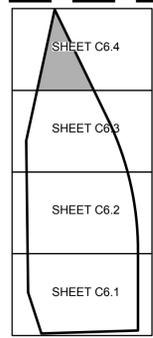
C7.4



TMS# 25840-00-086  
 WEST-SIGNAL INDUSTRIAL PROPERTY A, LLC

MATCHLINE C6.4

MATCHLINE C7.4



- NOTES:**
- ALL ELEVATIONS ARE BASED ON THE NAVD 1988 DATUM.
  - BOUNDARY DATA AND TOPO SURVEY PROVIDED BY SOUTHEASTERN LAND SURVEYING.
  - CONTRACTOR SHALL EMPLOY ANY NECESSARY EROSION CONTROL METHODS AVAILABLE TO PREVENT SEDIMENT FROM ENTERING FRESHWATER WETLANDS.
  - REFERENCE SCDOT DETAILS FOR RCP INSTALLATION.

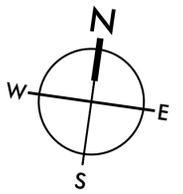
- DRAINAGE PIPE ABBREVIATIONS (SEE SPECS FOR ADDITIONAL INFORMATION)**
- GRCP - REINFORCED CONCRETE PIPE: ASTM C 76, CLASS III, WALL B WITH GASKETED JOINTS (ASTM C 443).
  - SRCP - REINFORCED CONCRETE PIPE: ASTM C 76, CLASS III, WALL B WITH SEALANT JOINTS (ASTM C 900)
  - PVC - POLYVINYL CHLORIDE PLASTIC PIPE: ASTM D 3034, SDR 26 WITH WATER-TIGHT, GASKETED JOINTS (ASTM D 3212).
- DRAINAGE STRUCTURE ABBREVIATIONS (SEE SPECS AND DETAILS FOR ADDITIONAL INFORMATION)**
- CB - CATCH BASIN
  - CI-16 - CURB INLET SCDOT TYPE 16
  - JB - JUNCTION BOX
  - PE - PIPE END
  - BPE - BEVELED PIPE END
  - UNDERDRAIN
  - SWALE

SEE SHEET C1.1 FOR LEGEND, SHEETS C7.5 - C7.7 FOR DRAINAGE PROFILES AND SHEETS C8.0 - C8.1 FOR GRADING & DRAINAGE DETAILS.

**EXISTING UTILITY NOTE:**

THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING ANY WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT OCCUR DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

SCALE: 1" = 40'

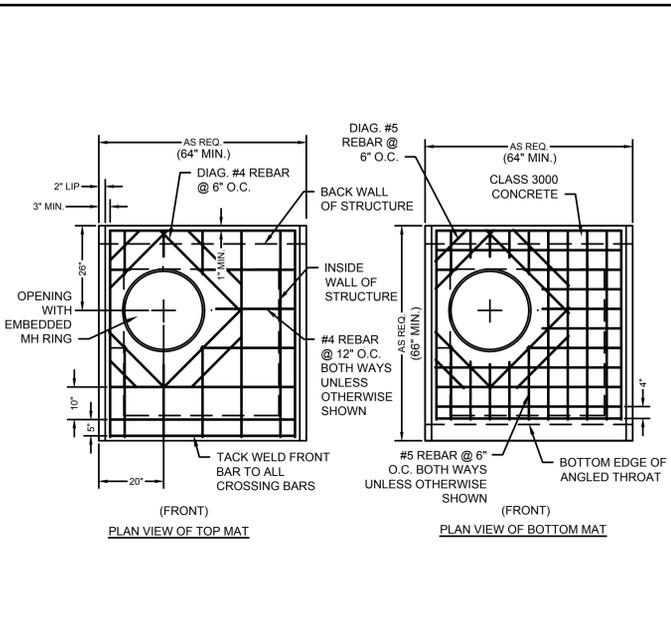


ES:\168-3\312201 4-25 PLOT BY Taylor Holt N:\1683\Drawings - 2019\1687 - Drainage Plans.dwg

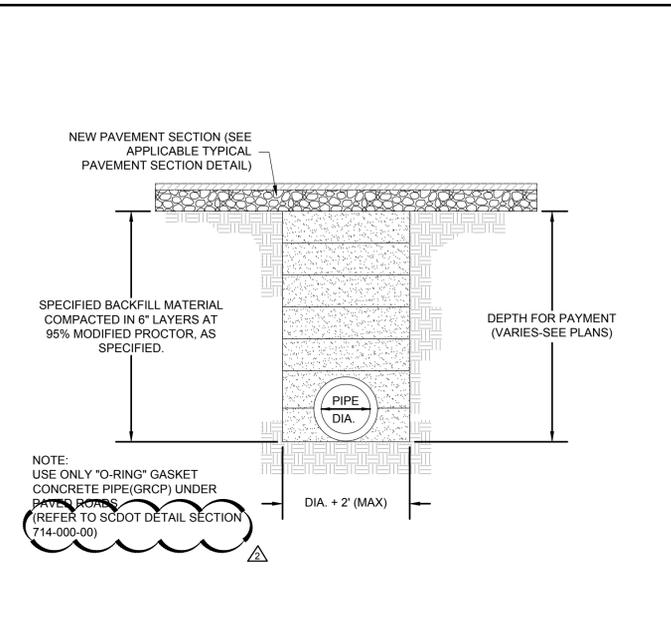
THIS DRAWING SHALL NOT BE REPRODUCED IN ANY MANNER OR USED FOR ANY PURPOSE WITHOUT WRITTEN PERMISSION.

501 WANDO PARK BOULEVARD, SUITE 200 | MOUNT PLEASANT, SC 29464 | 508 RHETT STREET, SUITE 101 | GREENVILLE, SC 29601

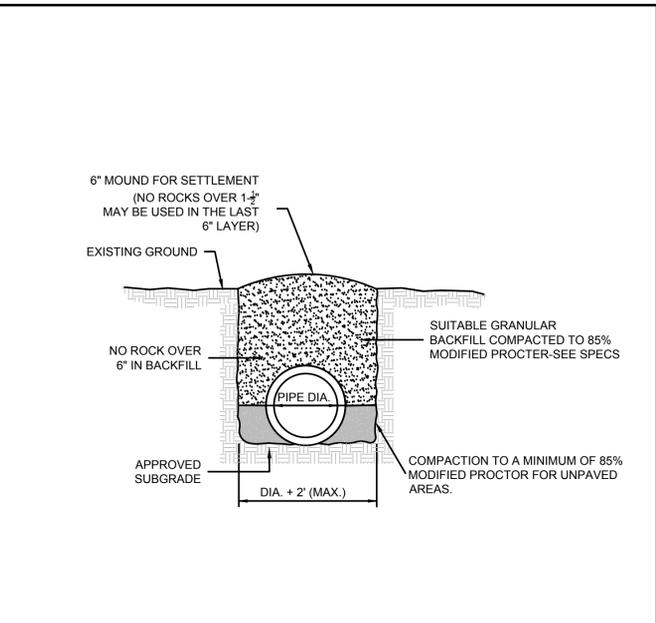
COPYRIGHT © SEAMON WHITESIDE & ASSOCIATES, INC.



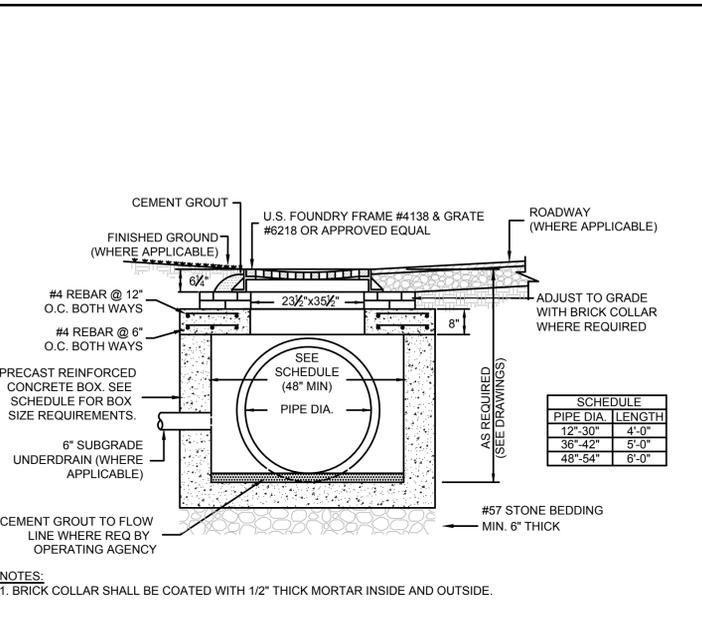
**1 CURB INLET TOP SLAB**  
(NOT TO SCALE)



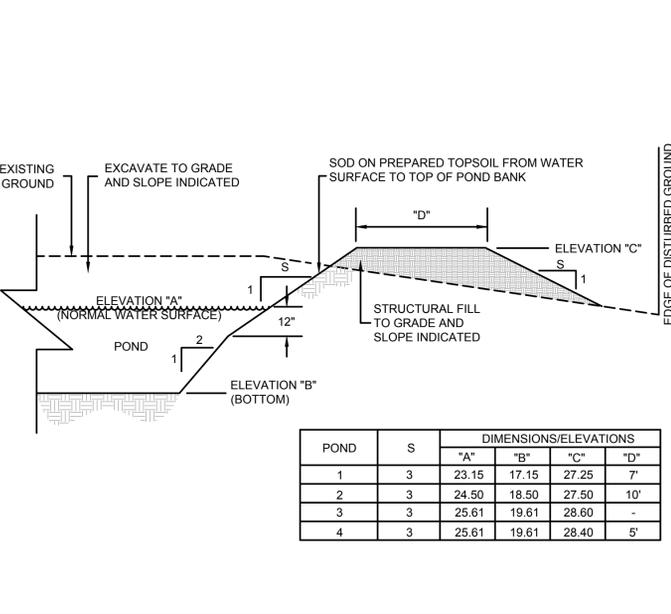
**2 STORM DRAINAGE PIPE TRENCH (UNDER PAVED AREAS)**  
(NOT TO SCALE)



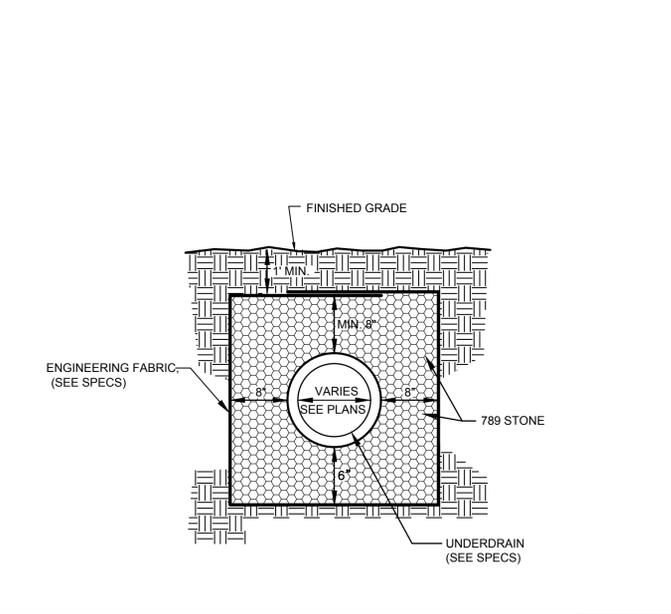
**3 STORM DRAINAGE PIPE TRENCH (NOT UNDER PAVED AREAS)**  
(NOT TO SCALE)



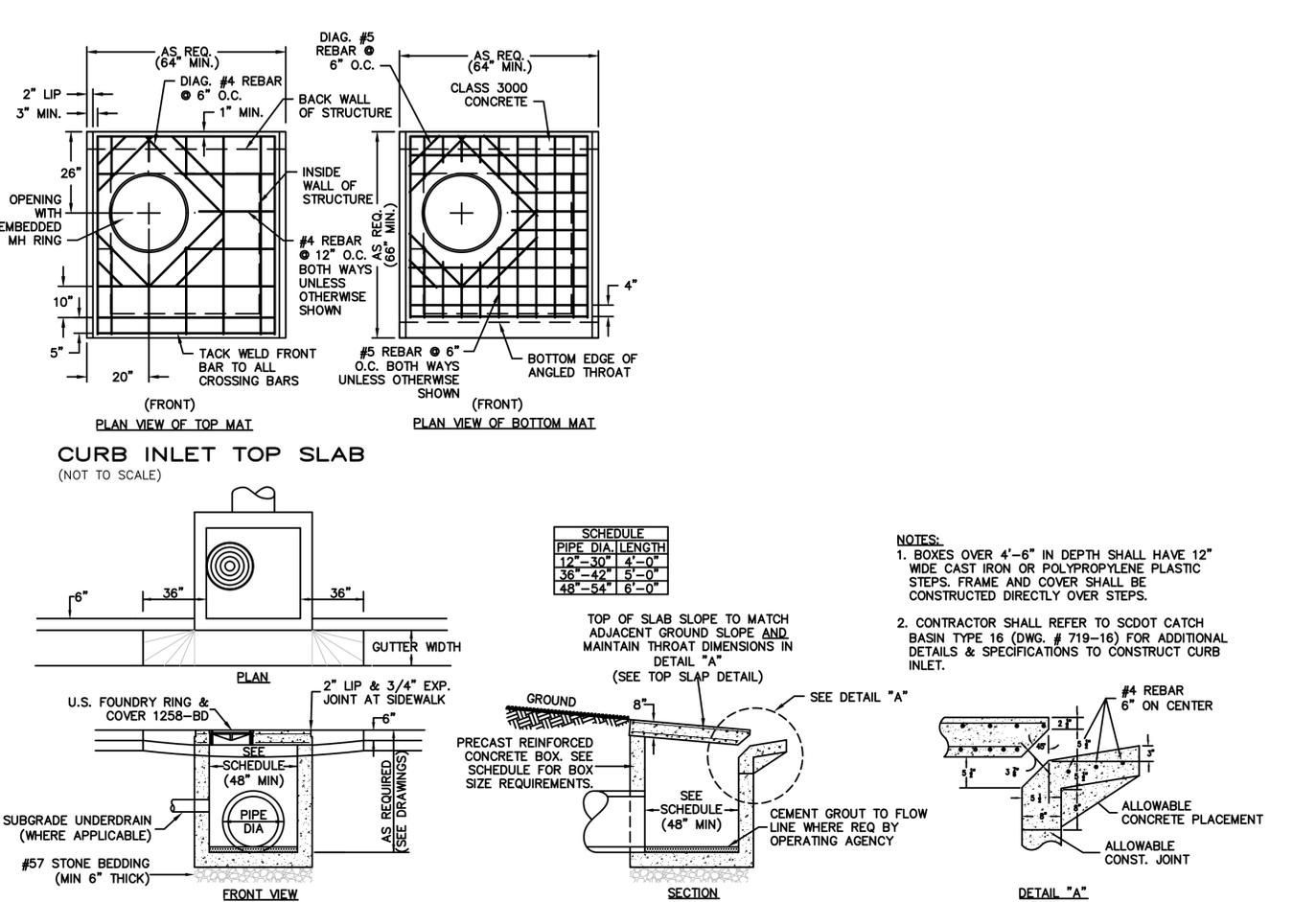
**4 CATCH BASIN**  
(NOT TO SCALE)



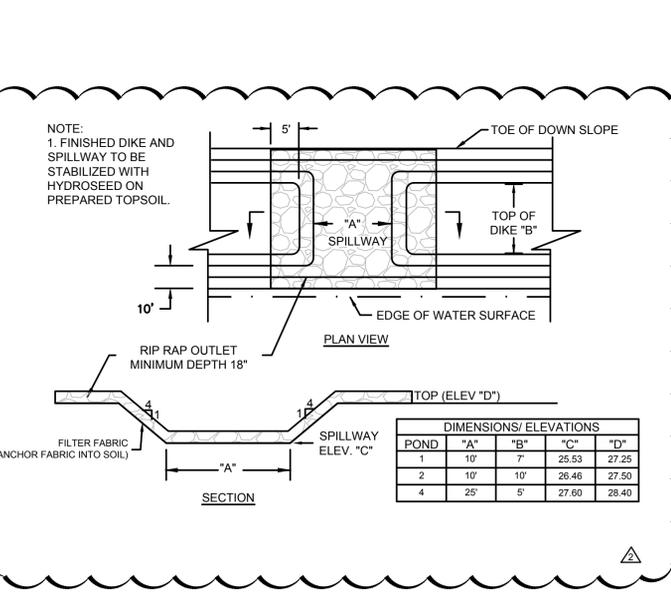
**5 POND BANK WITH DIKE**  
(NOT TO SCALE)



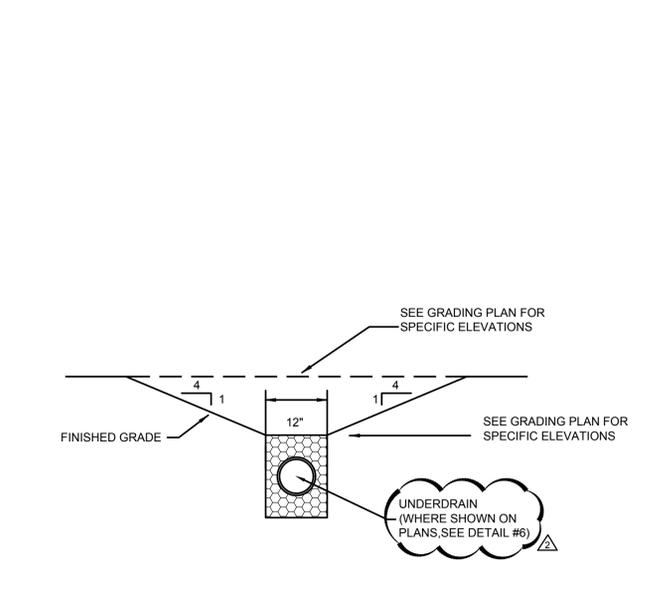
**6 MULTI-PURPOSE FIELD AND SWALE UNDERDRAIN**  
(NOT TO SCALE)



**7 SCDOT TYPE 16 CURB INLET**  
(NOT TO SCALE)



**8 EMERGENCY SPILLWAY**  
(NOT TO SCALE)



**9 SWALE**  
(NOT TO SCALE)

**REVISION HISTORY**

NO.	DATE	DESCRIPTION
A	6/12/20	
B	10/29/20	
C	01/22/21	
D	03/11/21	
2	04/01/21	

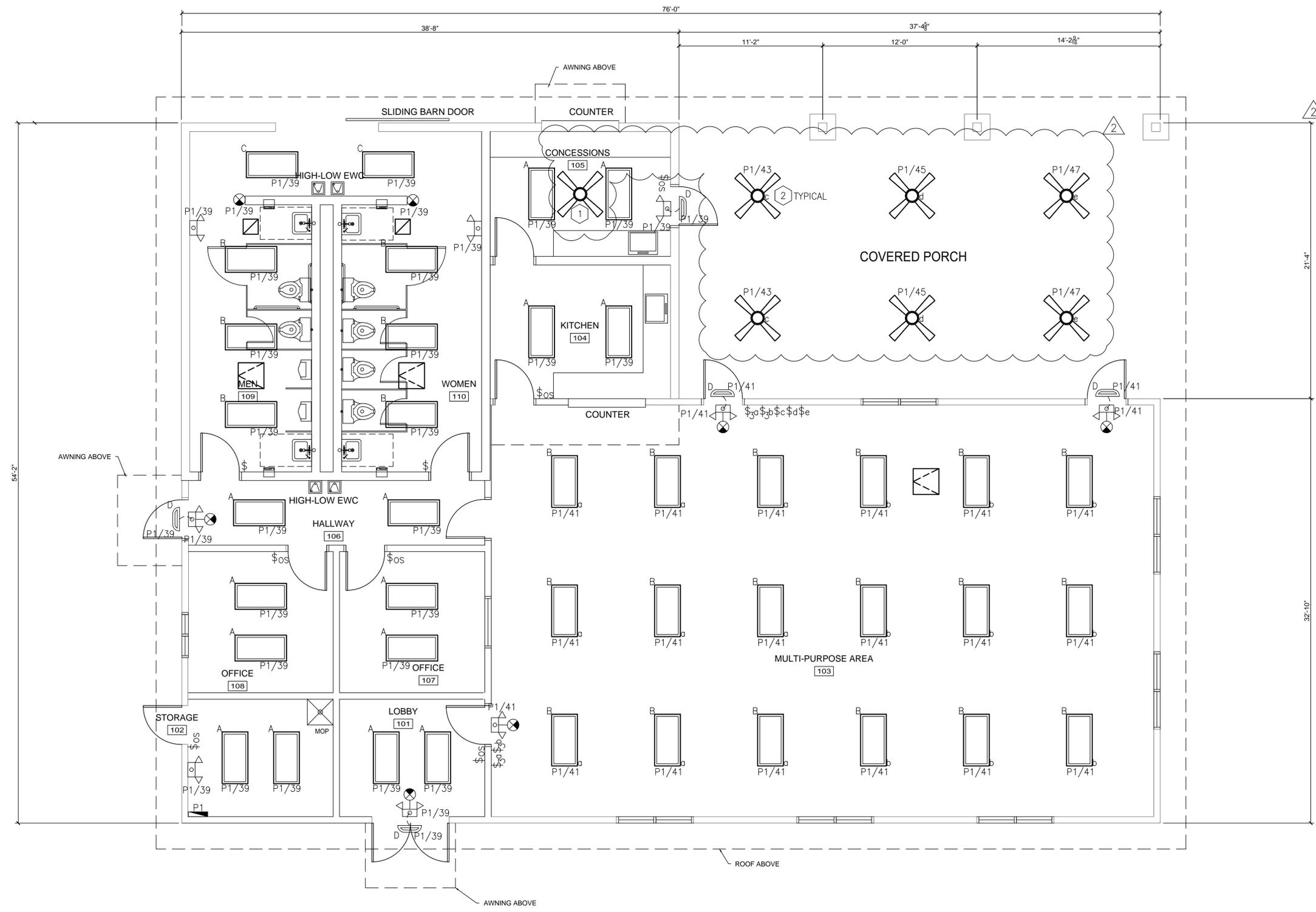
ALL DESIGN, DRAWINGS OR SPECIFICATIONS DEPICTED ON THIS SHEET ARE PROPERTY OF KARPUS DESIGN, LLC. COPYRIGHT 2016. ANY USE OR REPRODUCTION OF THESE DOCUMENTS WITHOUT EXPRESS PERMISSION OF KARPUS DESIGN, LLC IS STRICTLY PROHIBITED AND SUBJECT TO LEGAL ACTION. POSSESSION IN ANY FORM CONSTITUTES ACCEPTANCE OF THESE CONDITIONS.

**GENERAL NOTES:**

1. REFER TO DRAWING E001 FOR ELECTRICAL GENERAL NOTES, LEGENDS, & ABBREVIATIONS.
2. REFER TO DRAWING E501 FOR ELECTRICAL LIGHTING SCHEDULE.

**KEYED NOTES:**

- 1 CONCESSION STAND CEILING FANS (INTERIOR) – BIG ASS FANS, 52" DIA. LOW PROFILE, (SO) FAN WITH LIGHT KIT, MOTOR FINISH: WHITE 259, AIRFOIL FINISH: WHITE 259P010.
- 2 COVERED PORCH (EXTERIOR) – BIG ASS FANS, 52" DIA. UNIVERSAL MOUNT (UO), MOTOR FINISH: OIL RUBBED BRONZE 471, AIRFOIL FINISH: OIL RUBBED BRONZE 471P010.



**E1** REC. CENTER ELECTRICAL LIGHTING PLAN  
SCALE: 1/4"=1'-0"



**KARPUS DESIGN, LLC**  
P.O. Box 986  
Summerville, South Carolina, 29484  
ph: 843.425.4124 | fax: 843.832.7331  
karpusdesign.com



**Live Oak Consultants, LLC**  
Engineers, Project Managers & Planners  
PO Box 60400  
North Charleston, SC 29506  
www.LiveOakConsultants.com  
Project #: 20200158

New Recreation Building for:  
**HANAHAN CITY PARK**  
City of Hanahan  
Hanahan, South Carolina



**BID SET**

Rev.	Date	Description
0	03.11.2021	BID SET
2	04.01.2021	FAN CLARIFICATION

DRAWN BY: D. GRANGER  
CHECKED BY: R. BAIRD  
PROJECT NUMBER: 19006  
DATE: 09.21.2020

SHEET TITLE:  
**REC. CENTER BLDG.  
ELECTRICAL  
LIGHTING PLAN**  
SHEET NUMBER:  
**E101**

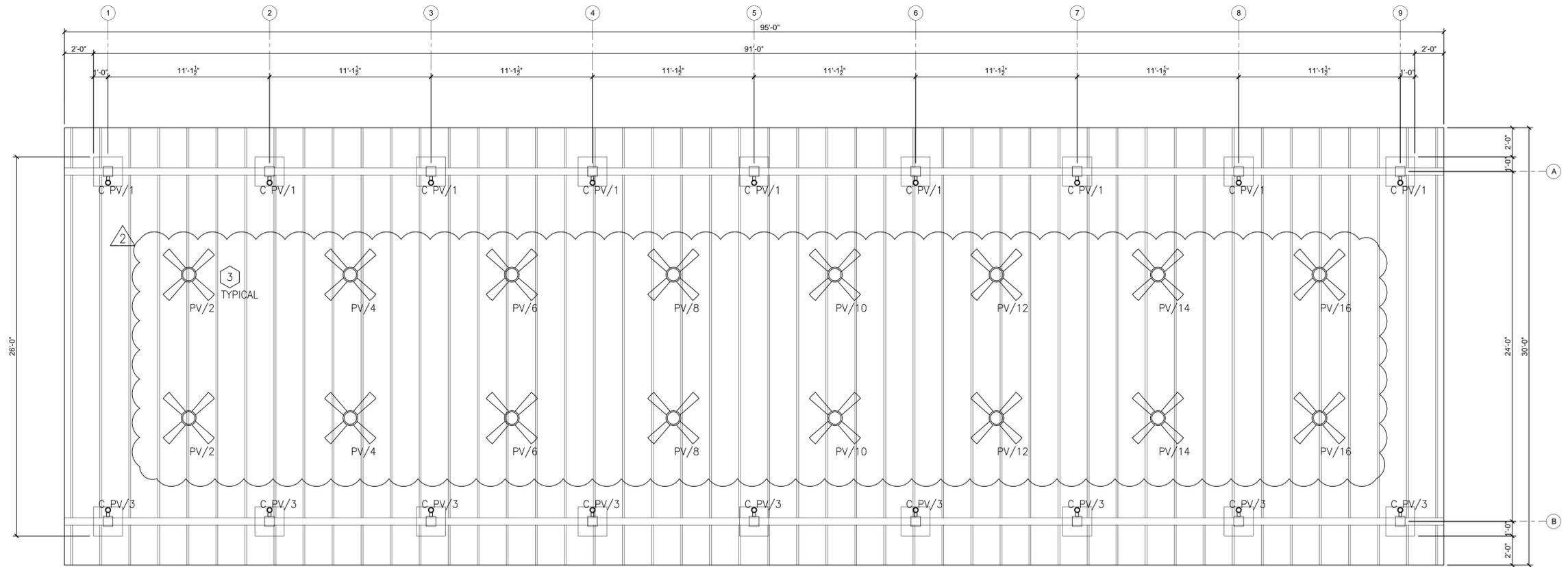
ALL DESIGN, DRAWINGS OR SPECIFICATIONS DEPICTED ON THIS SHEET ARE PROPERTY OF KARPUS DESIGN, LLC. COPYRIGHT 2016. ANY USE OR REPRODUCTION OF THESE DOCUMENTS WITHOUT EXPRESS PERMISSION OF KARPUS DESIGN, LLC IS STRICTLY PROHIBITED AND SUBJECT TO LEGAL ACTION. POSSESSION IN ANY FORM CONSTITUTES ACCEPTANCE OF THESE CONDITIONS.

**GENERAL NOTES:**

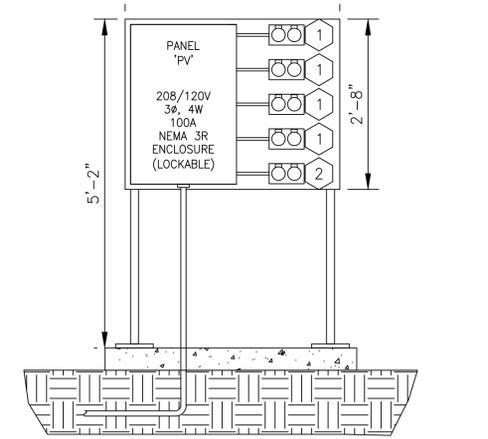
1. REFER TO DRAWING E001 FOR ELECTRICAL GENERAL NOTES, LEGENDS, & ABBREVIATIONS.
2. REFER TO DRAWING E501 FOR ELECTRICAL LIGHTING SCHEDULE.
3. ALL SWITCHES ARE TO BE INSTALLED IN NEMA 3R WEATHERPROOF ENCLOSURE.

**KEYED NOTES:**

- 1 SWITCHES FOR CEILING FAN POWER. TWO (2) FANS PER SWITCH.
- 2 SWITCHES FOR PAVILION LIGHTS.
- 3 PAVILION (EXTERIOR) - BIG ASS FANS, 52" DIA. UNIVERSAL MOUNT (UO), MOTOR FINISH: OIL RUBBED BRONZE 471, AIRFOIL FINISH: OIL RUBBED BRONZE 471P010.



**E1** PAVILION ELECTRICAL PLAN  
SCALE: 1/4"=1'-0"



**E1** PAVILION ELECTRICAL EQUIPMENT LAYOUT  
SCALE: 3/4"=1'-0"

**KARPUS DESIGN, LLC**  
P.O. Box 986  
Summerville, South Carolina, 29484  
ph: 843.425.4124 | fax: 843.832.7331  
karpusdesign.com

**LOC**  
Live Oak Consultants, LLC  
Engineers, Project Managers & Planners  
PO Box 6040  
North Charleston, SC 29405  
www.LiveOakConsultants.com  
Project #: 20200158

New Recreation Building for:  
**HANAHAN CITY PARK**  
City of Hanahan  
Hanahan, South Carolina

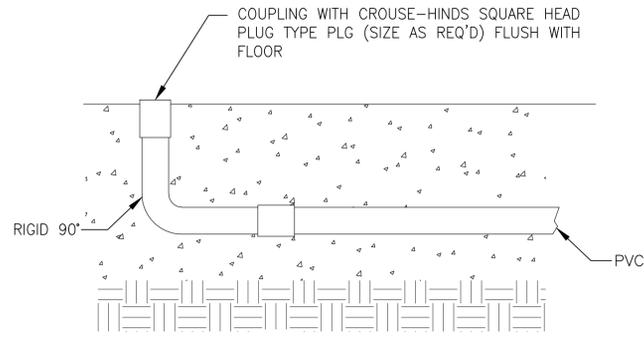


**BID SET**

Rev.	Date	Description
0	03.11.2021	BID SET
2	04.01.2021	FAN CLARIFICATION

DRAWN BY: D. GRANGER  
CHECKED BY: R. BAIRD  
PROJECT NUMBER: 19006  
DATE: 10.XX.2020

SHEET TITLE:  
**PAVILION ELECTRICAL PLAN**  
SHEET NUMBER:  
**E104**



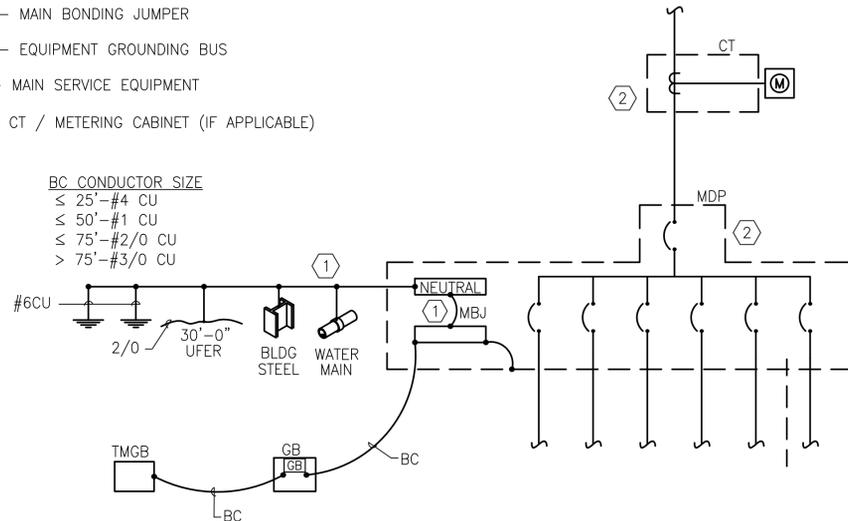
TYPICAL CONDUIT CONNECTION

1  
E501  
DETAIL  
N.T.S.

NOTES:

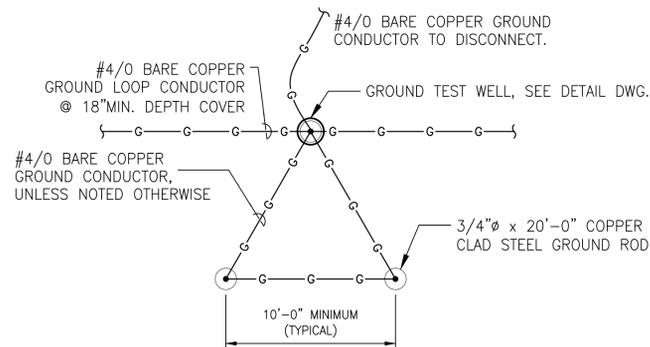
- TMGB - TELECOMMUNICATIONS MAIN GROUNDING BUS.
- GB - INTERSYSTEM BONDING TERMINAL.
- BC - BONDING CONDUCTOR.
- MBJ - MAIN BONDING JUMPER
- EGB - EQUIPMENT GROUNDING BUS
- MS - MAIN SERVICE EQUIPMENT
- CT - CT / METERING CABINET (IF APPLICABLE)

- BC CONDUCTOR SIZE
- ≤ 25' - #4 CU
  - ≤ 50' - #1 CU
  - ≤ 75' - #2/0 CU
  - > 75' - #3/0 CU



TYPICAL ELECTRICAL SERVICE  
GROUNDING/BONDING

2  
E5-01  
DETAIL  
N.T.S.

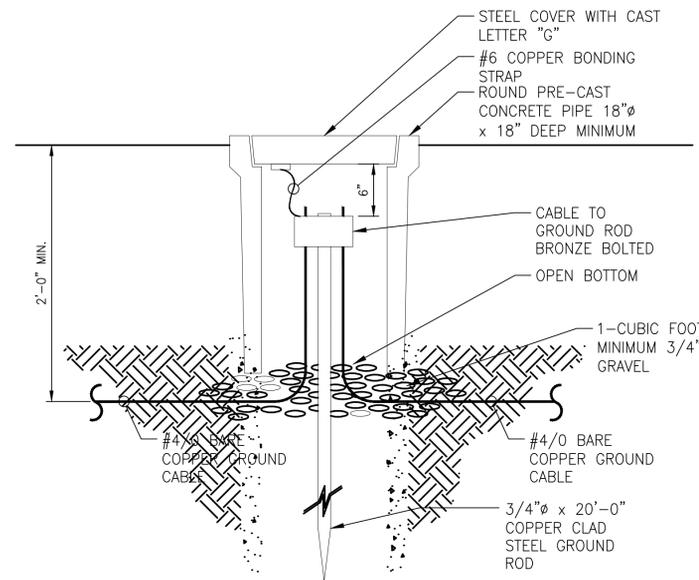


GROUNDING TRIAD

3  
E5-01  
DETAIL  
N.T.S.

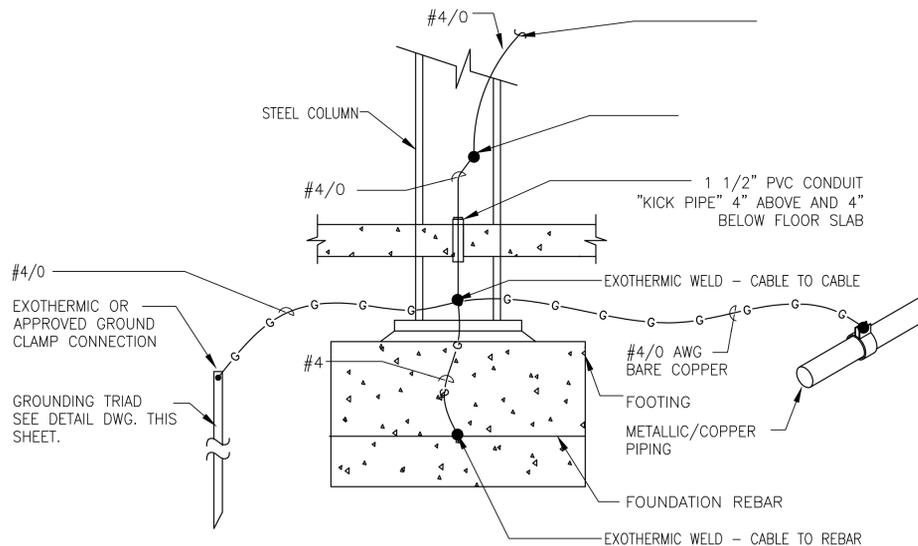
LIGHTING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	VOLTAGE	LAMPS	FIXTURE WATTAGE	NOTES
A	RECESSED	LITHONIA LIGHTING	BLC 2X4 4000LM 80CRI 35K ADSN MIN10 ZT	120V	LED	36W	2X4 TROFFER
B	SURFACE MOUNTED	LITHONIA LIGHTING	2BLTX4 40L ADP EZ1 LP840	120V	LED	34W	2X4 TROFFER
C	WALL MOUNT	CONTECH LIGHTING	CY3T 3 40K W X WF BZ RD	120V	LED	20W	UP/DOWN LIGHT
D	WALL MOUNT	DUAL LITE	PG 7	120V	LED	3W	CONNECTED TO BATTERY BACKUP
E	WALL OR CEILING MOUNT	LITHONIA LIGHTING	ECRG SQ M6	120V	LED	3.5W	GREEN LED EXIT/UNIT COMBO, SQUARE LAMP HEADS
E1	WALL MOUNT	LITHONIA LIGHTING	EU2C	120V	LED	3W	WITH BATTERY BACKUP, SQUARE LAMP HEADS



GROUNDING TEST WELL, TRAFFICE RATED

4  
E5-01  
DETAIL  
N.T.S.



TYPICAL GROUNDING CONNECTION  
AT BUILDING STEEL

5  
E5-01  
DETAIL  
N.T.S.

KARPUS DESIGN, LLC  
P.O. Box 986  
Summerville, South Carolina, 29484  
ph: 843.425.4124 | fax: 843.832.7331  
karpusdesign.com

LOC  
Live Oak Consultants, LLC  
P.O. Box 60490  
Newport News, Virginia 23606  
www.LiveOakConsultants.com  
Project #: 20200158

New Recreation Building for:  
**HANAHAN CITY PARK**  
City of Hanahan  
Hanahan, South Carolina



BID SET

Rev.	Date	Description
0	03.11.2021	BID SET
2	04.01.2021	LIGHTING CLARIFICATION

DRAWN BY: D. GRANGER  
CHECKED BY: R. BAIRD  
PROJECT NUMBER: 19006  
DATE: 09.21.2020

SHEET TITLE:

ELECTRICAL  
DETAILS, &  
SCHEDULES

SHEET NUMBER:

E501



REVISIONS:	DATE:	APPROVED BY:	PKC	PKC
DESIGN CRITERIA REVISED	04.01.21			
BID DATE	03.11.21			

1.0. CODES AND STANDARDS

- INTERNATIONAL BUILDING CODE 2018 EDITION INCLUDING ALL SUBSEQUENT AMENDMENTS
- "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES", AMERICAN SOCIETY OF CIVIL ENGINEERS, ASCE 7-16.
- "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS", ALLOWABLE STRENGTH DESIGN (ASD) EDITION - ASD, AMERICAN INSTITUTE OF STEEL CONSTRUCTION
- "SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS", AMERICAN INSTITUTE OF STEEL CONSTRUCTION
- "STEEL DESIGN MANUALS", 9TH EDITION (AISC 13.1 AND STRUCTURAL WELDING CODE), AMERICAN INSTITUTE OF STEEL CONSTRUCTION
- "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-14)", AMERICAN CONCRETE INSTITUTE (LATEST EDITION)
- "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" (ACI 530-14) AND "SPECIFICATIONS FOR MASONRY STRUCTURES" (ACI 530.1-14), AMERICAN CONCRETE INSTITUTE (LATEST EDITION)
- "MANUAL OF STANDARD PRACTICE", CONCRETE REINFORCING STEEL INSTITUTE, LATEST EDITION.
- "DESIGN MANUAL FOR FLOOR DECKS AND ROOF DECKS", STEEL DECK INSTITUTE.
- ANSI/SI C-2011, STANDARD FOR COMPOSITE STEEL FLOOR DECK/SLABS
- ANSI/SI INC-2010, STANDARD FOR NON-COMPOSITE STEEL FLOOR DECK
- ANSI/SI INC-2010, STANDARD FOR NON-COMPOSITE STEEL FLOOR DECK WITH COMPOSITE CONCRETE
- AMERICAN IRON AND STEEL INSTITUTE (AISI), LATEST EDITION.

**2.0 GRAVITY LOAD DESIGN CRITERIA RECREATION CENTER**

- 2.1 DEAD LOAD CRITERIA  
 I) ROOF: 20 PSF  
 II) TRUSS BOTTOM CHORD: 5 PSF
- 2.2 LIVE LOAD CRITERIA  
 I) GROUND / FIRST FLOOR: 100 PSF  
 II) MECH PLATFORM: 40 PSF  
 III) ROOF: 20 PSF
- 2.3 SNOW CRITERIA  
 I) SNOW LOADS: 5 PSF  
 II) IMPORTANCE FACTOR: I

**2.0 GRAVITY LOAD DESIGN CRITERIA PAVILION**

- 2.1 DEAD LOAD CRITERIA  
 I) ROOF: 20 PSF  
 II) TRUSS BOTTOM CHORD: 5 PSF
- 2.2 LIVE LOAD CRITERIA  
 I) GROUND / FIRST FLOOR: 100 PSF  
 II) ROOF: 20 PSF
- 2.3 SNOW CRITERIA  
 I) SNOW LOADS: 5 PSF  
 II) IMPORTANCE FACTOR: I

**2.0 GRAVITY LOAD DESIGN CRITERIA BATH HOUSE**

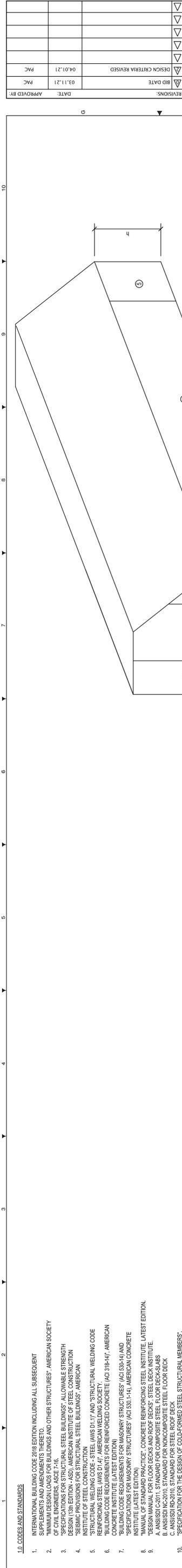
- 2.1 DEAD LOAD CRITERIA  
 I) ROOF: 20 PSF  
 II) TRUSS BOTTOM CHORD: 5 PSF
- 2.2 LIVE LOAD CRITERIA  
 I) GROUND / FIRST FLOOR: 100 PSF  
 II) ROOF: 20 PSF
- 2.3 SNOW CRITERIA  
 I) SNOW LOADS: 5 PSF  
 II) IMPORTANCE FACTOR: I

**3.0 LATERAL LOADS DESIGN CRITERIA**

- 3.1 WIND CRITERIA  
 I) WIND LOAD USED: 145 MPH ENCLOSED B  
 II) ENCLOSURE CRITERIA: B  
 III) WIND EXPOSURE CATEGORY: 1.0  
 IV) IMPORTANCE FACTOR: 1.0  
 V) NS WIND BASE SHEAR: 38 KIPS  
 VI) EW WIND BASE SHEAR: 8 KIPS
- 3.1.1 WALL WIND LOADS  
 I) MWFRS: 20 PSF  
 II) COMPONENTS & CLADDING (END ZONE): SEE CHART  
 III) COMPONENTS & CLADDING (INTERIOR): SEE CHART
- 3.1.2 ROOF WIND LOADS  
 I) MWFRS (END ZONE): -15 PSF  
 II) COMPONENTS & CLADDING (END ZONE): SEE CHART  
 III) COMPONENTS & CLADDING (INTERIOR): SEE CHART
- 3.2 SEISMIC CRITERIA  
 HAZARD EXPOSURE GROUP: I  
 DESIGN CATEGORY: D  
 RESPONSE MODIFICATION: 1.0  
 IMPORTANCE FACTOR: 1.0  
 S<sub>s</sub> = 1.75g  
 S<sub>1</sub> = 0.16g  
 SRS: CANTILEVER COLUMNS  
 SITE CLASSIFICATION: SITE CLASS D  
 ANALYSIS METHOD: EQUIVALENT LATERAL FORCE ANALYSIS METHOD  
 BASE SHEAR: 11 KIPS

**4.0 OTHER DESIGN CRITERIA**

SOIL BEARING PRESSURE: 2000 PSF  
 THIS PROJECT WAS DESIGNED IN ACCORDANCE WITH ECS PN 34-3542 DATED 9/10/19



**COMPONENTS AND CLADDING**

WALLS AREA (ft <sup>2</sup> )	NEGATIVE			
	ZONE 4.5 (+) (psf)	ZONE 4 (-) (psf)	ZONE 3 (-) (psf)	ZONE 5 (-) (psf)
10	31.0	-33.7	-41.6	-41.6
20	29.6	-32.3	-38.8	-38.8
50	27.8	-30.4	-35.1	-35.1
100	26.4	-29.0	-32.3	-32.3
200	25.0	-27.6	-29.5	-29.5
500	23.1	-25.8	-25.8	-25.8
1000	23.1	-25.8	-25.8	-25.8

**C&C WALLS (TOILETS)**  
 SCALE: 1/4" = 1'-0"



**C&C GABLE ROOF (TOILETS)**  
 SCALE: 1/4" = 1'-0"



GABLE ROOF AREA (ft <sup>2</sup> )	NEGATIVE				OVERHANG	
	ZONE 1,2,3 (+) (psf)	ZONE 2 (-) (psf)	ZONE 3 (-) (psf)	ZONE 3 (-) (psf)	ZONE 2 (-) (psf)	ZONE 3 (-) (psf)
10	17.9	-28.4	-49.4	-73.1	-62.6	-102.0
20	16.3	-27.6	-45.5	-68.4	-62.6	-92.5
50	14.2	-26.6	-40.3	-62.1	-62.6	-80.0
100	12.6	-25.8	-36.3	-57.3	-62.6	-70.5
200	12.6	-25.8	-36.3	-57.3	-62.6	-70.5
500	12.6	-25.8	-36.3	-57.3	-62.6	-70.5
1000	12.6	-25.8	-36.3	-57.3	-62.6	-70.5

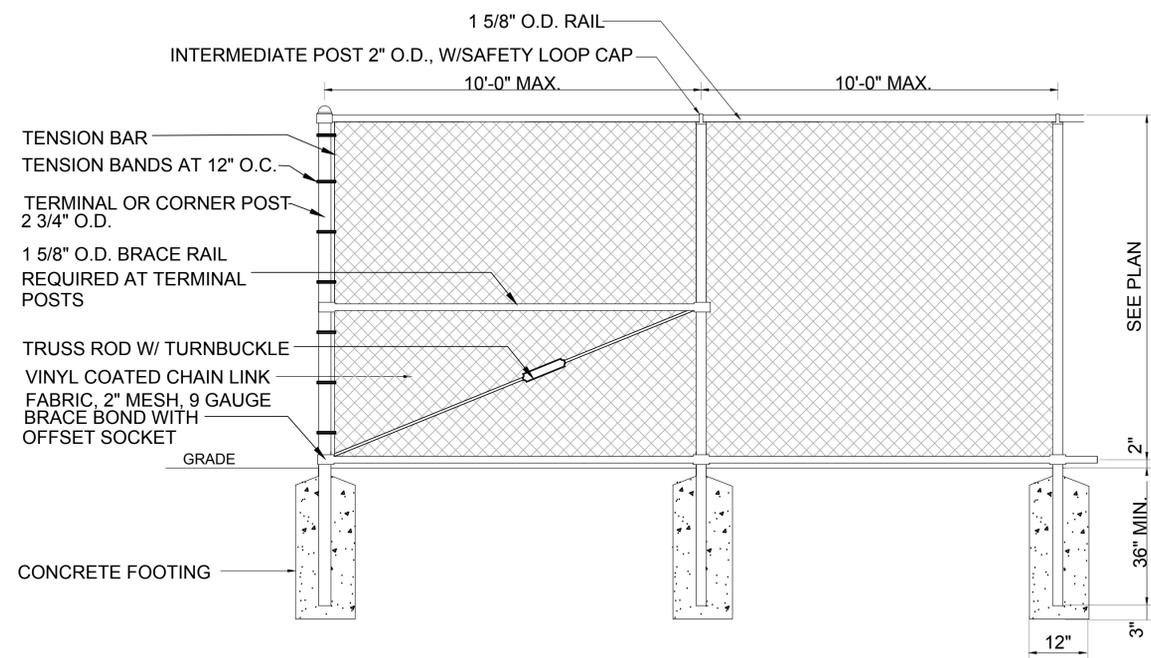
LEGAL NOTICE  
 10/14/20

DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF CURRY ENGINEERS, LLC. ANY REPRODUCTION OR USE OF THESE DRAWINGS WITHOUT THE WRITTEN PERMISSION OF CURRY ENGINEERS, LLC IS STRICTLY PROHIBITED. THE USER AGREES TO BE USED ON OTHER WORK EXCEPT BY AGREEMENT WITH THE ENGINEER.

**BASIS OF DESIGN**

DRAWN BY: J. BOYD  
 DESIGNED BY: P. CURRY  
 CHECKED BY: P. CURRY  
 DATE: 10.14.20  
 SCALE: AS NOTED  
 JOB NO.: 220-064  
 SHEET: S101

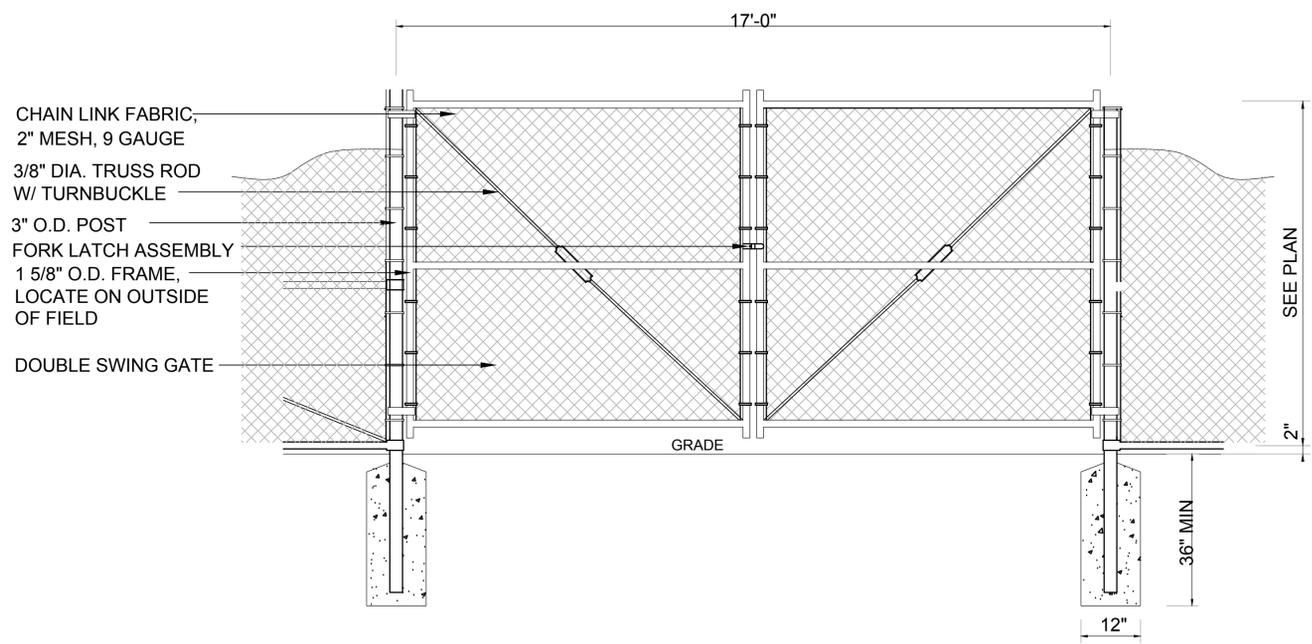
THIS DRAWING SHALL NOT BE REPRODUCED IN ANY MANNER OR USED FOR ANY PURPOSE WITHOUT WRITTEN PERMISSION.  
 501 WANDO PARK BOULEVARD, SUITE 200 | MOUNT PLEASANT, SC 29464 | 508 RHETT STREET, SUITE 101 | GREENVILLE, SC 29601  
 COPYRIGHT © SEAMON, WHITESIDE & ASSOCIATES, INC.



NOTES:  
 1. ALL FENCING AND COMPONENTS TO BE VINYL COATED; COLOR: BLACK

NTS

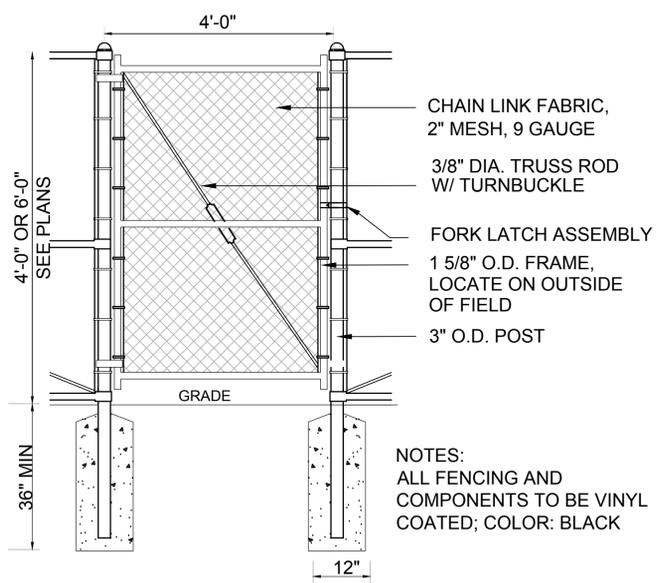
**1 CHAIN LINK FENCE**



NOTES:  
 1. ALL FENCING AND COMPONENTS TO BE VINYL COATED; COLOR: BLACK

NTS

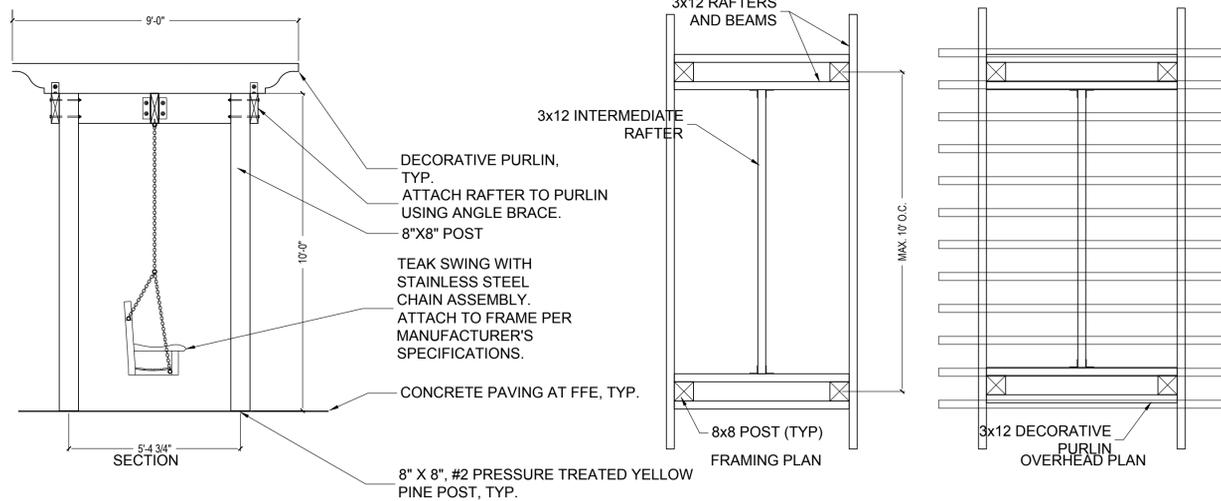
**2 CHAIN LINK FENCE - 17' WIDE DOUBLE GATE**



NOTES:  
 ALL FENCING AND COMPONENTS TO BE VINYL COATED; COLOR: BLACK

**3 CHAIN LINK FENCE - 4' PEDESTRIAN GATE**

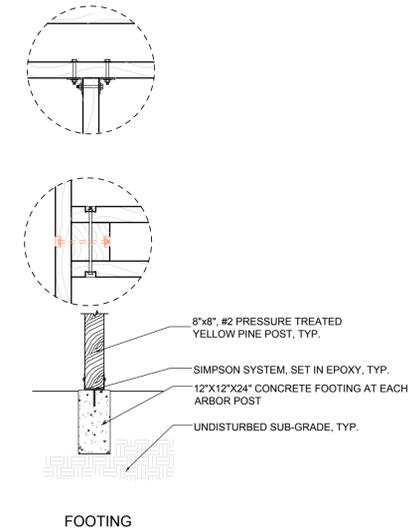
NOTES:  
 1. ALL WOOD TO BE NO. 2 OR BETTER TREATED SOUTHERN YELLOW PINE. POSTS TO BE PRESSURE TREATED FOR GROUND CONTACT USE, OTHER UNITS FOR ABOVE GROUND USE.  
 2. ALL HARDWARE AND FASTENERS TO BE STAINLESS STEEL, NAILS TO BE GALVANIZED SPIRAL DECKING NAILS.  
 3. ALL WOOD TO HAVE NATURAL FINISH.  
 4. LOCATION OF ARBORS TO BE DETERMINED. QUANTITY: 2  
 5. SWING INFORMATION QUANTITY: 2  
 MANUFACTURER: COUNTRY CASUAL  
 STYLE: WINDERMERE 5' SWING  
 FINISH: TEAK WATER AND STAIN GUARD



NTS

**4 SWING ARBOR**

NOTE:  
 1. REFER TO LEGEND FOR MATERIAL COLOR & FINISH.  
 2. ALL HARDWARE & FASTENERS TO BE STAINLESS STEEL.  
 3. NAILS TO BE GALVANIZED SPIRAL DECKING NAILS.  
 4. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR APPROVAL BY CLIENT & LANDSCAPE ARCHITECT.



**SW**  
 SEAMON WHITESIDE

MOUNT PLEASANT, SC 843.884.1667  
 GREENVILLE, SC 864.298.0534  
 SUMMERVILLE, SC 843.972.0710  
 SPARTANBURG, SC 864.272.1272  
 CHARLOTTE, NC 980.312.5450  
 WWW.SEAMONWHITESIDE.COM

SOUTH CAROLINA  
 SEAMON, WHITESIDE & ASSOCIATES, INC.  
 Landscape Architecture  
 No. 32  
 LICENSED PROFESSIONAL ARCHITECT

State of South Carolina  
 Landscape Architect  
 No. 710120  
 CAROL S. P. CAMPBELL

**HANAHAN RECREATION COMPLEX**  
 CITY OF HANAHAN  
 HANAHAN, SOUTH CAROLINA

SW+ PROJECT: 7867  
 DATE: 06/12/20  
 DRAWN BY: BAE  
 CHECKED BY: CPC

REVISION HISTORY	
A	6/12/20
B	11/20/20
C	01/22/21
D	03/11/21
2	04/01/21

HARDSCAPE DETAILS

