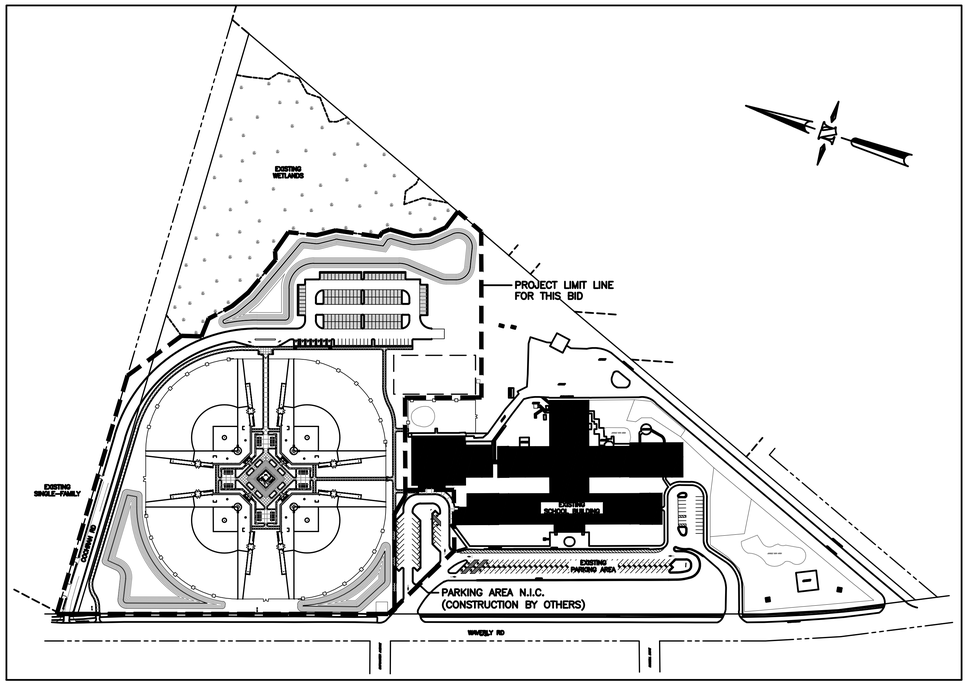
WAVERLY PARK AT WACCAMAW ELEMENTARY SCHOOL

GEORGETOWN COUNTY REGIONAL PARKS

Bid Set

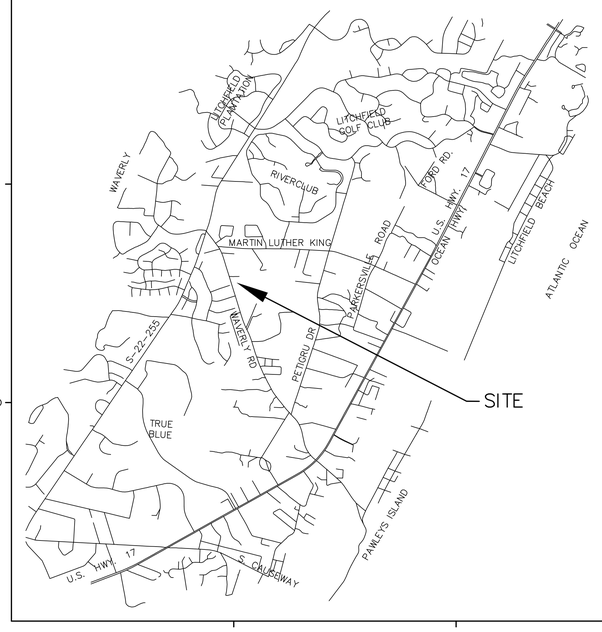
April 13, 2021



SITE LAYOUT

SCALE: 1" = 150'

LOCATION MAP



LIST OF DRAWINGS

LIST OF ABBREVIATIONS

ALT.	ALTERNATE
ALUM.	ALUMINUM
APPROX.	APPROXIMATELY
ARCH.	ARCHITECTURAL
A.T.	ASPHALT TILE
BD.	BOARD
BLDG.	BUILDING
BLK.	BLANK
BOT.	BOTTOM
CEM.	CEMENT
CONC.	CONCRETE
CONN.	CONNECTION
CONST.	CONSTRUCTION
DET.	DETAIL
DIM.	DIMENSION
DWG. (S)	DRAWING(S)
EA.	EACH
EL.	ELEVATION
EXT.	EXTERIOR
EXIST.	EXISTING
FIN.	FINISH
FL.	FLOOR
GALV.	GALVANIZED
GND.	GROUND
HT.	HEIGHT
HW.	HARDWARE
INT.	INTERIOR
JT.	JOINT
PT.	PRESSURE TREATED
PTD.	PAINTED
LTG.	LIGHTING
MAX.	MAXIMUM
MIN.	MINIMUM
MISC.	MISCELLANEOUS
N.A.	NOT APPLICABLE
N.I.C.	NOT IN CONTRACT
NO.	NUMBER
O.H.	OVERHEAD
OPNG.	OPENING
OPP.	OPPOSITE
PNL.	PANEL
P.T.	PRESSURE TREATED
REC'D	RECESSED
REQ.	REQUIRED
SCH.	SCHEDULE
SECT.	SECTION
SHT.	SHEET
SPEC.	SPECIFICATIONS
ST.	STEEL
STOR.	STORAGE
STRUC.	STRUCTURAL
THK.	THICKNESS
THD.	THRESHOLD
TOIL.	TOILET
TYP.	TYPICAL
VENT.	VENTILATION
VERT.	VERTICAL
VTR.	VENT THRU ROOF
W.D.	WITH WOOD
W/ WD.	WINDOW DIMENSION

SYMBOL LEGEND

CONFERENCE 101 — ROOM NAME AND NUMBER

133A — DOOR NUMBER

A — WINDOW LETTER

A28 — ACCESSORY / EQUIPMENT NUMBER

0 / A0–0 — SECTION REFERENCE

0 / A0–0 — ELEVATION REFERENCE

0 / A0–0 — DETAIL REFERENCE

CODES AND REGULATIONS

CODES COMPLIANCE REVIEW AND RELATED INFORMATION
(AS OF DATE 1/22/2021)
PROJECT DESIGNED IN ACCORDANCE WITH:

A. The International Building Code, 2018 Edition with modifications for the SC Building Code
B. The International Plumbing Code, 2018 Edition with modifications for the SC Building Code
C. The International Mechanical Code, 2018 Edition with modifications for the SC Building Code
D. The International Fire Code, 2018 Edition with modifications for the SC Building Code
E. The National Electrical Code NFPA–70, 2017 Edition
F. The National Electrical Safety Code ANSI/IEEE C2–2012 Edition
G. (note removed)
H. International Energy Conservation Code, 2009 Edition with modifications
I. ASHRAE/IESNA 90.1–2004 & 2007, Energy Efficient Design of New Buildings
J. ANSI/ASHRAE 62–2007,Ventilation for Acceptable Indoor Air Quality
K. ICC/ANSI–A117.1–2017, Accessible and Usable Buildings and Facilities
L. Americans with Disabilities Act (ADA), 2010 or latest edition and 2020 South Carolina School Facilities Planning and Construction Guide
M. Erosion and Sediment Reduction and Stormwater Management Regulations (R.72–101 through R.72–108, latest revision)

PROJECT INFORMATION

A. TYPE OF CONSTRUCTION:	NEW CONSTRUCTION
B. PROJECT NAME	WAVERLY PARK AT WACCAMAW ELEMENTARY SCHOOL
C. PROJECT ADDRESS	1364 WAVERLY ROAD, PAWLEYS ISLAND, SC 29585
D. COUNTY	GEORGETOWN, SC
E. LOCAL FIRE DEPARTMENT	MIDWAY FIRE & RESCUE
F. WATER SUPPLY	GEORGETOWN COUNTY WATER & SEWER DISTRICT
G. BUILDING INSPECTION DEPARTMENT	OFFICE OF SCHOOL FACILITIES, STATE OF SOUTH CAROLINA
H. ARCHITECT	SGA | NARMOUR WRIGHT DESIGN P.O. BOX 1859 / 8263 OCEAN HIGHWAY PAWLEYS ISLAND, SC 29585 PH: 843–237–3421

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WAVERLY PARK

AT

WACCAMAW ELEMENTARY SCHOOL
1364 WAVERLY RD.
PAWLEY'S ISLAND, SC 29585

PROJECT NUMBER:
19-004-04
ISSUE DATE:
4/13/2021

DRAWN BY: PW / JW
CHECKED BY: PW / JW / MR

Bid Set

Revision Schedule		
#	Description	Date

COVER SHEET

G000

FORM F3 BUILDING CODE ANALYSIS FORM

PROJECT Waverly Park at Waccamaw Elementary School DISTRICT Georgetown County

SUBMITTAL: ☐ SCHEMATIC ☒ DESIGN DEVELOPMENT ☐ CONSTRUCTION DOCUMENT

DATE 1/22/2021 CODE & EDITION IBC 2018 GUIDE EDITION 2020

BASIC BUILDING CODE INFORMATION

DESIGNATED AREAS OF BUILDING	Area 1	Area 2	Area 3	Area 4	Area 5	Area 6
CONSTRUCTION CLASSIFICATION TYPE (IBC 602)	Type VB-NonSprinklered					
OCCUPANCY GROUP (indicate all) (IBC 302) (Note IBC 506.5)	A5					
OCCUPANCY GROUP (indicate most restrictive) (IBC Table 503)						
Does building require Incidental Use Area Separation? (IBC 508.2.5)	☒ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes
Does building have Accessory Occupancy (ies)? What percent of story is accessory occupancy? (IBC 508.2)	☒ no ☐ yes SF %	☐ no ☐ yes SF %	☐ no ☐ yes SF %	☐ no ☐ yes SF %	☐ no ☐ yes SF %	☐ no ☐ yes SF %
Mixed Occupancy (IBC 508)	☒ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes
Non separated (IBC 508.3)	☐ no ☒ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes
Separated (IBC 508.4) (IBC 506.5)	☒ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes

OTHER FIRE PROTECTION SYSTEMS, DEVICES or FEATURES If the building has any special or notable fire protection or safety feature or hazard the designers should list them here, describe the performance characteristics and refer to locations in construction documents. (e.g. fire extinguishers, smoke-evacuation/control/compartments. Note IBC 414.1.3.)	Fire Extinguishers (See A101, note 14)					

BUILDING AREA

DESIGNATED AREAS OF BUILDING	Area 1	Area 2	Area 3	Area 4	Area 5	Area 6
AREA LIMIT BY PER STORY (IBC Table 503) (Do not indicate increases for sprinklers & street frontage.)	9,000 SF	SF	SF	SF	SF	SF
MAXIMUM AREA MODIFICATION PER STORY FROM EQUATION 5-1 OF IBC (Insert equation from IBC 506.1 with completed calculations in this box) (Equation 5-1) Aa = At + [At x If] + [At x Is] Aa = Allowable area per floor (square feet). At = Tabular area per floor in accordance with Table 503 If = Area increase factor due to frontage (percent) as calculated in accordance with Section 506.2. Is = Area increase due to sprinkler protection as calculated in accordance with Section 506.3. (Repeat equation for each story of differing occupancies, IBC 506.5.2) Note: footnote "e." from table 601	SF	SF	SF	SF	SF	SF
MAXIMUM AREA PER STORY	9,000 SF	SF	SF	SF	SF	SF

TOTAL ALLOWED AREA OF BUILDING (Summary of all stories)	9,000 SF	SF	SF	SF	SF	SF
AREA AS DESIGNED PER STORY (Repeat for each story)	1,112 SF	SF	SF	SF	SF	SF
Total Designed Area of Building	1,112 SF	SF	SF	SF	SF	SF

BUILDING HEIGHT

DESIGNATED AREAS OF BUILDING		Area 1		Area 2		Area 3	
HEIGHT		DESIGNED	ALLOWED	DESIGNED	ALLOWED	DESIGNED	ALLOWED
Without any Allowable Increase (IBC Table 503)	In Feet	20'-5"	40'-0"				
	In Stories	1	2				
Allowable Height Increase (IBC 504.2)	In Feet						
	In Stories						
Total Height including any Allowable Increase	In Feet	20'-5"	40'-0"				
	In Stories	1	2				

BUILDING HEIGHT

DESIGNATED AREAS OF BUILDING		Area 4		Area 5		Area 6	
HEIGHT		DESIGNED	ALLOWED	DESIGNED	ALLOWED	DESIGNED	ALLOWED
Without any Allowable Increase (IBC Table 503)	In Feet						
	In Stories						
Allowable Height Increase (IBC 504.2)	In Feet						
	In Stories						
Total Height including any Allowable Increase	In Feet						
	In Stories						

Per IBC Chapter 10. List individual space occupancy load on life safety or architectural plans.

BUILDING DESIGN OCCUPANT LOAD

DESIGNATED AREAS OF BUILDING	Area 1	Area 2	Area 3	Area 4	Area 5	Area 6
Story	6					
Story						
Story						
Total						

GENERAL FIRE PROTECTION REQUIREMENTS

DESIGNATED AREAS OF BUILDING	Area 1	Area 2	Area 3	Area 4	Area 5	Area 6
SEPARATIONS						
Fireblocking Required (IBC Section 717)	☒ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes
Draftstopping Required (IBC Section 717)	☒ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes
Smoke Control System Required (IBC Section 909)	☒ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes
Smoke Barriers Required (IBC Sections 407 and 408)	☒ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes
Smoke Partitions Required (IBC Section 407)	☒ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes
Fire Partition Required (IBC Section 420)	☒ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes
Fire Barrier Required (IBC Section 707)	☒ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes
ALARM & DETECTION						
Fire Alarm System Required (IFC Section 907)	☒ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes
Emergency Alarm System Required (IFC 908)	☒ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes
SUPPRESSION						
Standpipes Required (IFC Section 905)	☒ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes
Sprinklers Required (IFC Section 903)	☒ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes
Sprinklers Provided?	☒ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes
Portable extinguishers required (IFC 906)	☐ no ☒ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes
Other suppression systems required (IFC 904)	☒ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes
Smoke & heat vents required (IFC 910)	☒ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes

OTHER FIRE AND LIFE SAFETY FEATURES

DESIGNATED AREAS OF BUILDING	Area 1	Area 2	Area 3	Area 4	Area 5	Area 6
AREA OF REFUGE						
Separation required (IBC 1007.6.2)	☒ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes
Two-way communication provided (IBC 1007.6.3)	☒ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes
Instruction provided (IBC 1007.6.4)	☒ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes
EXTERIOR AREA FOR ASSISTED RESCUE						
Separation required (IBC 1007.8)	☒ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes
Identification provided (IBC 1007.8.3)	☒ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes
OTHER						
	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes
	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes
	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes
	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes
	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes
	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes
	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes
	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes
	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes
	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes	☐ no ☐ yes

FIRE RESISTANCE RATING OF BUILDING ELEMENTS

DESIGNATED AREAS OF BUILDING		Area 1	Area 2	Area 3	Area 4	Area 5	Area 6
Structural Frame (IBC Table 601)	As Required, Hrs	0					
	As Designed, Hrs	0					
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						
Bearing Walls, Exterior (IBC Table 601)	As Required, Hrs	0					
	As Designed, Hrs	0					
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						
Bearing Walls, Interior (IBC Table 601)	As Required, Hrs	0					
	As Designed, Hrs	0					
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						
Nonbearing Walls & Partitions, Exterior (IBC Table 601 & 602)	As Required, Hrs	0					
	As Designed, Hrs	0					
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						

FIRE RESISTANCE RATING OF BUILDING ELEMENTS

DESIGNATED AREAS OF BUILDING		Area 1	Area 2	Area 3	Area 4	Area 5	Area 6
Nonbearing Walls & Partitions (IBC Table 601 & 602) Exterior Interior	As Required, Hrs	0					
	As Designed, Hrs	0					
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						
Floor Construction including supporting beams & joists (IBC Table 601)	As Required, Hrs	0					
	As Designed, Hrs	0					
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						
Roof Construction including supporting beams & joists (IBC Table 601)	As Required, Hrs	0					
	As Designed, Hrs	0					
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						
Fire Walls (IBC Section 706)	As Required, Hrs	0					
	As Designed, Hrs	0					
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						

FIRE RESISTANCE RATING OF BUILDING ELEMENTS

DESIGNATED AREAS OF BUILDING		Area 1	Area 2	Area 3	Area 4	Area 5	Area 6
Fire Barriers (IBC Section 707)	As Required, Hrs	0					
	As Designed, Hrs	0					
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						
Shaft Enclosures (IBC Section 708)	As Required, Hrs	0					
	As Designed, Hrs	0					
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						
Fire Partitions (IBC Section 709)	As Required, Hrs	0					
	As Designed, Hrs	0					
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						
Opening & Protective Listing by Category (fire shutters, doors, etc.) (IBC Section 715)	As Required, Hrs	0					
	As Designed, Hrs	0					
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						

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Revision Schedule		
#	Description	Date

OSF
BUILDING CODE
ANALYSIS FORMS

G001

FIRE RESISTANCE RATING OF BUILDING ELEMENTS							
DESIGNATED AREAS OF BUILDING		Area 1	Area 2	Area 3	Area 4	Area 5	Area 6
Others (as required by Designer)	As Required, Hrs						
	As Designed, Hrs						
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						

FLOOD HAZARD INFORMATION and FLOOD LOADS	
FLOOD HAZARD AREA	
Base Flood Elevation (NGVD or FIRM)	'X' MSL
Design Flood Elevation IBC 1612.3 and ASCE 24	N/A MSL
NON HIGH-VELOCITY WAVE ACTION	
Elevation of Lowest Proposed Floor (Meet ASCE 24 Section 2.6.2.1)	MSL
Dry floodproofing ASCE 24	☐ no ☐ yes
HIGH-VELOCITY WAVE ACTION	
Elevation of bottom of Lowest Horizontal Structural Member of lowest floor	MSL
Flotation resistant (ASCE 24)	☐ no ☐ yes
Breakaway wall per ASCE 24	☐ no ☐ yes

Per IBC Chapter 16 and ASCE 7 – Structural tables may be shown on initial Structural Sheet of the drawings or on Sheet with other code information. List floor design loads on structural plans.

STRUCTURAL DESIGN INFORMATION, AREA							
OCCUPANCY CATEGORY (IBC Table 1604.5)		Area 1					
LIVE LOAD FOR EACH CCUPANCY TYPE (IBC Figure 1608.2 or ASCE 7)	Floor Live Load, F_{fi}	125 PSF	PSF	PSF	PSF	PSF	PSF
	Roof Live Load, R_{fi}	20 PSF	PSF	PSF	PSF	PSF	PSF
	Ground Snow Load, P_g	10 PSF	PSF	PSF	PSF	PSF	PSF
MISCELLANEOUS LOADS BY SPECIAL USE AREA (ARCHITECTURAL, MECHANICAL, DATA CENTER, ETC., ASCE 7)		PSF	PSF	PSF	PSF	PSF	PSF

SOILS & SITE	
SOILS INVESTIGATION REQUIRED? (IBC 1803.2)	☐ no ☐ yes
SOILS CLASSIFICATION	
Seismic Site Class (IBC 1613.5.2)	D
Classes Soil of Materials (UCS System) (IBC 1803.5.1)	4
Allowable Footing Bearing Pressure	2500 psf
MINIMUM DESIGN SOIL BEARING LOAD (IBC Table 1806.2)	2000 psf
COMPACTION	
Subgrade (ASTM D698, ASTM D1557) or (AASHTO only for paving & roads)	90 %
Base (ASTM D698, ASTM D1557) or (AASHTO only for paving & roads)	95 %
Other (ASTM D698, ASTM D1557) or (AASHTO only for paving & roads)	%
MINIMUM DESIGN SOIL LATERAL LOAD (IBC 1610.1)	30 psf
FOOTINGS	
Undisturbed footings	☐ no ☒ yes
Compacted Fill Material (IBC 1804.5)	☐ no ☐ yes
ELEVATIONS	
Elevation of Water Table	5.7 MSL
Elevation of lowest footing	14.67 MSL
Elevation of lowest floor or basement	16.15 MSL

STRUCTURAL DESIGN INFORMATION, BUILDING		
WIND LOADS	Analysis Procedure (ASCE 7 or IBC 1609.6)	
	Basic Wind Speed, MPS (3 sec gust IBC Fig 1609)	V_{3S} = 148
	Exposure Category	
	Wind Importance Factor (ASCE 7-2016 Table 6.1)	I_w = 1.0
	Internal Pressure Coefficient (ASCE 7-2016)	GC_{pi} = 0.18
	External Pressure Coefficient (ASCE 7-2016)	GC_p =
SEISMIC LOADS	Seismic Importance Factor (ASCE 7-2016)	I = 1.0
	Soil Class (IBC 1613.5.2)	
	Mapped Spectral Response Accelerations	S_s = 0.397 S_1= 0.137
	Design Spectral Response Acceleration Parameters	S_{DS} = 0.393 S_{D1} = 0.212
	Seismic Use Group (ASCE 7-2016 and Seismic Occupancy Category IBC)	
	Seismic Design Category (IBC Tables 1613.5.6(1) & 1613.5.6(2))	D
	Basic Seismic Force Resisting System	Bearing Wall
	Design Base Shear	9 KIPS
	Seismic Response Coefficient(s) (ASCE 7-2016)	C_s = 0.08
	Response Modification Factor(s) (ASCE 7-2016)	R = 5
	Analysis Procedure	Equivalent Force Method

The Designer(s) of Record shall determine the material and/or work on the project requiring Special Inspections. The Special Inspection requirements shall be based on Section 1704 of the 2018 International Building Code. Any deviations from the requirements of Section 1704 must be approved by OSF. Per IBC Chapter 16 and ASCE 7 – This information may be shown on initial Structural Sheet of the drawings or on Sheet with other code information. List floor design loads on structural plans.

STATEMENT OF SPECIAL INSPECTIONS				
MATERIAL	TYPE OF INSPECTION	FREQUENCY	SPECIFICATION REFERENCE	INSPECTION BY
Soils (Compacted Fill)	Test in place dry density of compacted fill	Periodic/Continuous		Owner Third Party Agency
Concrete Foundations	Test Concrete strength	Periodic		Owner Third Party Agency
Concrete Masonry Units	Test Compressive strength of mortar & grout	See masonry inspection chart		Owner Third Party Agency
Wood Roof Diaphragm		Periodic		Owner Third Party Agency
Connection Hardware		Periodic		Owner Third Party Agency

Provide a table for each structure.

PLUMBING INFORMATION		
WATER SYSTEM		
Service Line Size	1.5 Inches	
Distribution Design Criteria (IPC Table 604.3)	18 Fixture Units	
Maximum Flow Rate (IPC Table 604.4)	18 GPM	
Backflow	Location	on-site
	Type	
Test Pressure	65 psi	
SANITARY SEWER SYSTEM		
Service Line Size	4 Inches	
Drainage Design Criteria (IPC Tables 709.1 and 709.2)	26 Fixture Units	
Maximum Flow Rate	1000 GPD	
Slope (IPC Table 704.1)	0.12 Inches/Ft	
MINIMUM PLUMBING FIXTURES REQUIRED/PROVIDED (IPC Section 403 & Table 403.1)		
For structures with multiple building areas and/or occupancy groups, show calculation for shared fixtures. Expand table as needed.		
Applicable area(s)		
Most restrictive area		
Fixture counts required		

CODE REQUIRED BUILDING FIXTURE COUNTS		
Water Closets	Male-Required	1
	Male WC -Provided	1
	Male Urinal -Provided	2
	Female-Required	2
	Female-Provided	3
Lavatories	Male-Required	1
	Male-Provided	1
	Female-Required	1
	Female-Provided	2
Showers	Male-Required	0
	Male-Provided	0
	Female-Required	0
	Female-Provided	0
Drinking Fountains	Required	2
	Provided	2
Family or Assisted Use	Required	1
	Provided	1
Service Sink	Required	1
	Provided	1
Others (list)	Required	0
	Provided	0

FIRE SERVICE INFORMATION		
Service Line Size		6 Inches
Fire Department Connection	Location	hydrant at vehicular drop-off
Backflow	Location	corner of Waverly + Cochran Rd
	Type	testable double-check
Fire Hydrant Flow Test	Date	12-9-2020
	Flow	1080 GPM
	Residual	52 PSI
	Static	60 PSI

Summary of data from approved ASHRAE 90.1 compliance sheets.

MECHANICAL INFORMATION		
GENERAL INFORMATION		
Building Location	Pawleys Island, SC	
Climate Zone	8B	
Outdoor Design Temperature	Summer	98 deg F DB
		92 deg F WB
	Winter	17 deg F DB
		17 deg F WB
Indoor Design Temperature	Summer	70 deg F DB
		50 % RH
	Winter	70 deg F DB
		50 % RH
OUTSIDE AIR		
Occupied Minimum Outside Air	10 cfm per person	
CO2 Demand Management	☒ no ☐ yes	
Supervised Control System	☒ no ☐ yes	
MECHANCIAL SYSTEMS, SERVICE SYSTEMS & EQUIPMENT		
Briefly describe mechanical system:		
Package terminal heat pumps		

ELECTRICAL INFORMATION		
SERVICE TRANSFORMER	☒ By Utility	
	☐ By District	KVA Primary
		120/240 / Single Phase Voltage/Phase
ELECTRICALSERVICE INFORMATION		
Service Voltage/Phase	225/1 Amperes	
Service Entrance Conductors Size	410/1 Qty per Phase	
Total Connected Load	59 KVA	
Estimated Maximum Demand	47 KVA	
Available Fault Current in Symmetrical Amperes	10,000	
Interrupting Capacity of Service Overcurrent Device	10,000	
GROUNDING ELECTRODE SYSTEM COMPONENTS (NEC 250)	3 ground rods spaced 10' apart	
EMERGENCY SERVICE INFORMATION		
Emergency Generator	☒ no ☐ yes	KVA
		Voltage/Phase
	Fuel	
Exit/Emergency Lights Backup Power		☒ Integral Battery
		☐ Generator
Fire Alarm System	☐ Manual	☐ Addressable
	☐ Automatic	☐ Class A
		☐ Class B

LIGHTNING PROTECTION PROVIDED	☒ no ☐ yes

Summary of data from approved ASHRAE 90.1 compliance sheets.

ENERGY INFORMATION		
INSULATION		
Roof	Cavity	38 R
	Continuous	R
Walls	Cavity	0 R
	Continuous	0 R
Underslab		0 R
GLAZING (each type)		
Window to wall ratio	North	0 %
	East	0 %
	South	0 %
	West	0 %
Glass Type	U Factor	
	SHG	

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Revision Schedule		
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OSF
BUILDING CODE
ANALYSIS FORMS

G002

MASTER KEYNOTE LEGEND

SECTION 033000 CAST-IN-PLACE CONCRETE
- 033000.A CONCRETE THICKENED SLAB EDGE
- 033000.B CONCRETE FOOTING
- 033000.C CONCRETE GRADE BEAM
- 033000.D ISOLATION JOINT MATERIAL
- 033000.E CONCRETE SLAB-ON-GRADE
- 033000.F CONCRETE RAMP
- 033000.G CONCRETE STAIRS
- 033000.H STEEL REINFORCEMENT
- 033000.J VAPOR RETARDER
- 033000.K GRANULAR BASE
- 033000.L CONCRETE RETAINING WALL

SECTION 042000 UNIT MASONRY
- 042000.A FACE BRICK
- 042000.B ROWLOCK SOLID BRICK SILL
- 042000.C SOLDIER COURSE
- 042000.D CMU (")
- 042000.E CMU BOND BEAM
- 042000.F MASONRY CONTROL JOINT
- 042000.G MASONRY JOINT REINFORCEMENT
- 042000.H REINFORCING
- 042000.J WEEP VENT
- 042000.K COMPRESSIBLE FILLER
- 042000.L CAVITY WALL INSULATION
- 042000.M THROUGH WALL FLASHING
- 042000.N GROUT SOLID
- 042000.P MASONRY ANCHOR
- 042000.Q CAVITY MORTAR CONTROL

SECTION 051200 STRUCTURAL STEEL
- 051200.A STEEL BEAM
- 051200.B STEEL COLUMN
- 051200.C STEEL ANGLE

SECTION 055000 METAL FABRICATIONS
- 055000.A STEEL LADDER
- 055000.B STEEL LINTEL
- 055000.C SHELF ANGLE
- 055000.D STEEL ANGLE
- 055000.E NOSING
- 055000.F PIPE BOLLARD
- 055000.G ANCHOR BOLT
- 055000.H EXPANSION BOLT

SECTION 061000 ROUGH CARPENTRY
- 061000.A WOOD WALL FRAMING (")
- 061000.B WOOD JOIST (")
- 061000.C WOOD RAFTER (")
- 061000.D LUMBER (2X)
- 061000.E WOOD BLOCKING
- 061000.F FASTENER
- 061000.G PLYWOOD
- 061000.H EXTERIOR GRADE PLYWOOD

SECTION 061600 SHEATHING
- 061600.A WALL SHEATHING
- 061600.B ROOF SHEATHING
- 061600.C UNDERLAYMENT
- 061600.D BUILDING PAPER
- 061600.E T-111 ROOF SHEATHING
- 061600.F DRAINAGE MAT

SECTION 061753 SHOP-FABRICATED WOOD TRUSSES
- 061753.A WOOD TRUSS

SECTION 064013 EXTERIOR ARCHITECTURAL WOODWORK
- 064013.A WOOD TRIM
- 064013.B TIMBER BRACKET
- 064013.C TIMBER BEAM
- 064013.D WOOD DECK ( )
- 064013.E WOOD PICKET ( )
- 064013.F WOOD RISER
- 064013.G WOOD RAIL ( )

SECTION 064023 INTERIOR ARCHITECTURAL WOODWORK
- 064023.A PLASTIC LAMINATE CABINETS
- 064023.B PLASTIC LAMINATE COUNTERTOP
- 064023.C ADJUSTABLE SHELVES
- 064023.D FIXED SHELF
- 064023.E OPEN SHELF
- 064023.F SHELF STANDARDS & SUPPORTS
- 064023.G STAINLESS STEEL COUNTER WRAP
- 064023.H WOOD TRIM
- 064023.J WOOD STAIRS
- 064023.K WOOD TREAD
- 064023.L WOOD RISER
- 064023.M WOOD HANDRAIL
- 064023.N HANDRAIL BRACKET
- 064023.P WOOD RAILING

SECTION 071113 BITUMINOUS DAMPPROOFING
- 071113.A BITUMINOUS DAMPPROOFING

SECTION 072100 THERMAL INSULATION
- 072100.A UNFACED BLANKET INSULATION (R-13)

SECTION 074113 METAL ROOF PANELS
- 074113.A METAL ROOF PANEL
- 074113.B RIDGE CLOSURE
- 074113.C FASCIA
- 074113.F METAL TRIM/FLASHING
- 074113.G UNDERLAYMENT
- 074113.H FASTENER
- 074113.J CONTINUOUS CLEAT
- 074113.K PANEL CLIP
- 074113.L PANEL CLOSURE
- 074113.M Z CLOSUKRE

SECTION 074600 SIDING
- 074600.A SIDING
- 074600.B FIBER CEMENT BOARD PERFORATED SOFFIT
- 074600.C SIDING TRIM/FLASHING
- 074600.D CORNER POST
- 074600.E FASCIA
- 074600.F VINYL COLUMN COVER

SECTION 076200 SHEET METAL FLASHING AND TRIM
- 076200.A DRIP EDGE
- 076200.B SILL FLASHING
- 076200.C EAVE FLASHING
- 076200.D HEAD FLASHING
- 076200.E SHEET METAL REGLET
- 076200.F BASE FLASHING
- 076200.G COUNTERFLASHING
- 076200.H CONTINUOUS CLEAT
- 076200.J ROOF PENETRATION FLASHING
- 076200.K SHEET METAL TRIM
- 076200.L COLUMN CAP

SECTION 079200 JOINT SEALANTS
- 079200.A JOINT SEALER
- 079200.B BACKER ROD

SECTION 081113 HOLLOW METAL DOORS AND FRAMES
- 081113.A HM DOOR
- 081113.B HM FRAME
- 081113.C LOUVER
- 081113.D FRAME ANCHOR

SECTION 083323 OVERHEAD COILING DOORS
- 083323.A OVERHEAD COILING DOOR
- 083323.B COILING DOOR TRACK

SECTION 087100 DOOR HARDWARE
- 087100.A ALUMINUM THRESHOLD

SECTION 0880000 GLAZING
- 088000.A INSULATED IMPACT RESISTANT GLASS
- 088000.B FLOAT GLASS
- 088000.C TEMPERED GLASS

SECTION 089100 LOUVERS
- 089100.A METAL WALL LOUVER
- 089100.B SILL PAN
- 089100.C SHIM
- 089100.D HEAD FLASHING

SECTION 099100 PAINTING
- 099100.A PAINT

SECTION 099300 STAINING AND TRANSPARENT FINSHING
- 099300.A STAIN

SECTION 101400 SIGNAGE
- 101400.A SIGN

SECTION 102800 TOILET AND BATH ACCESSORIES
- 102800.A GRAB BAR (")
- 102800.B WARM AIR DRYER

SECTION 104400 FIRE PROTECTION SPECIALTIES
- 104400.A FIRE EXTINGUISHER BRACKET
- 104400.B PORTABLE FIRE EXTINGUISHER/BRACKET

LIST OF ABBREVIATIONS

A		
A/C	AIR CONDITIONED	
AD	AREA DRAIN	
AFF	ABOVE FINISH FLOOR	
AHU	AIR HANDLING UNIT	
ALT.	ALTERNATE	
ALUM	ALUMINUM	
A.O.	ACCESS OPENING	
APC	ACOUSTICAL PANEL CEILING	
APPROX.	APPROXIMATELY	
ARCH.	ARCHITECTURAL	
ACW	ARCHITECTURAL CASEWORK	
A.T.	ASPHALT TILE	
ACT	ACOUSTIC CEILING TILE	
B		
BAL.	BALANCE	
BD	BOARD	
BLDG.	BUILDING	
BLK.	BLANK	
BM.	BEAM	
BOT.	BOTTOM	
BRG.	BEARING	
BTUH	BRITISH THERMO UNIT/HR.	
C		
CAB.	CABINET	
CAP.	CAPACITY	
C/B	CIRCUIT BREAKER	
CD	CEILING DIFFUSER	
CEM.	CEMENT	
CER.	CERAMIC	
CFM	CUBIC FEET/MINUTE	
CIRC.	CIRCULATING	
CJ	CONTROL JOINT	
CK'D	CHECKERED	
CKT.	CIRCUIT	
℄	CENTER LINE	
CLG	CEILING	
CL.	CLOSET	
CMU	CONCRETE MASONRY UNIT	
C.O.	CLEAN OUT	
COL.	COLUMN	
CONC.	CONCRETE	
COND.	CONDENSATE	
CONN.	CONNECTION	
CONST.	CONSTRUCTION	
CONT.	CONTINUOUS	
CPT.	CARPET	
CT	CERAMIC TILE	
CTB	CERAMIC TILE BASE	
D		
DET.	DETAIL	
DIA.	DIAMETER	
DIFF.	DIFFUSER	
DIM.	DIMENSION	
DISC.	DISCONNECT	
DN.	DOWN	
DR.	DRAIN	
DS	DOWN SPOUT	
DWG. (S)	DRAWING(S)	
E		
EA.	EACH	
E.C.	EMPTY CONDUIT	
EF	EXHAUST FAN	
EL.	ELEVATION	
EIFS	EXTERIOR INSULATION FINISH SYSTEM	
ELEC.	ELECTRIC	
E.P.	EPOXY PAINT	
EQUIP.	EQUIPMENT	
E.W.C.	ELECTRIC WATER COOLER	
EXH.	EXHAUST	
EXP. JT.	EXPANSION JOINT	
EXT.	EXTERIOR	
EXG	EXISTING	

F		
FA	FIRE ALARM	
F.C	FLEXIBLE CONNECTION	
FD	FLOOR DRAIN	
FDC	FIRE DEPARTMENT CONNECTION	
FEC	FIRE EXTINGUISHER CABINET	
FIN.	FINISH	
FL.	FLOOR	
FT.	FOOT-FEET	
FTG.	FOOTING	
FRTW	FIRE RETARDANT TREATED WOOD	
G		
GA.	GAUGE	
GAL.	GALLON	
GALV.	GALVANIZED	
G.L.	GLASS	
GND.	GROUND	
GOV'T	GOVERNMENT	
GPH	GALLONS/HR.	
GPM	GALLONS/MIN.	
GR.	GRILLE	
GWB	GYPSUM WALL BOARD	
GYP.	GYPSUM	
H		
HB	HOSE BIBB	
HC	HOLLOW CORE	
HT.	HEIGHT	
HM	HOLLOW METAL	
H.P.	HORSE POWER	
HR.	HOUR	
HTG.	HEATING	
HTR.	HEATER	
HW.	HARDWARE	
HYD.	HYDRANT	
I		
I.D.	INSIDE DIAMETER	
IN.	INCHES	
INCAND.	INCANDESCENT	
INSUL.	INSULATION	
INT.	INTERIOR	
J		
J.B.	JUNCTION BOX	
JCT.	JUNCTION	
JT.	JOINT	
K		
KVA	KILOVOLT AMPERE	
KW	KILOWATT	
L		
L.B.	POUND	
L.P.	LIGHTING PANEL	
LTG.	LIGHTING	
M		
M.	MOTOR	
MAINT.	MAINTENANCE	
MAX.	MAXIMUM	
MDP	MAIN DISTRIBUTION PANEL	
MECH	MECHANICAL	
MTL	METAL	
MIN.	MINIMUM	
MISC.	MISCELLANEOUS	
MO	MASONRY OPENING	
MT.	METAL THRESHOLD	
MTD.	MOUNTED	
MTG.	MOUNTING	
M.V.	MECHANICAL VENTILATION	
MR GWB	MOISTURE RESISTANT GYPSUM WALL BOARD	

N		
NA	NOT APPLICABLE	
N.I.C.	NOT IN CONTRACT	
NO.	NUMBER	
O		
OA	OUTDOOR AIR	
OC	ON CENTER	
OD	OUTSIDE DIAMETER	
OH	OVERHEAD	
OL.	OVERLOAD	
OPG	OPENING	
OPP.	OPPOSITE	
ORD	OVERFLOW ROOF DRAIN	
O.S.	OPEN STRUCTURE	
OTD	OPEN TO DECK	
P		
PART.	PARTITION	
PER.	PERIMETER	
PL , PL.	PLATE	
PLAS.	PLASTER	
PLBG.	PLUMBING	
PLYW'D	PLYWOOD	
PNL.	PANEL	
PTWD	PRESSURE TREATED WOOD	
PRESS.	PRESSURE	
PSF	POUNDS/SQUARE FOOT	
PSI	POUNDS/SQUARE INCH	
PSIG	POUNDS/SQUARE INCH GAGE	
PT.	POINT	
PTD.	PAINTED	
PTWD	PRESSURE TREATED WOOD	
Q		
QTR.	QUARTER	
QUAN.	QUANTITY	
QT	QUARRY TILE	
R		
R.	RISER	
R.A.	RETURN AIR	
RAD.	RADIUS	
RD.	ROUND	
REC'D	RECESSED	
RECIRC.	RECIRCULATING	
RECP.	RECEPTACLE	
REINF.	REINFORCING	
REQ.	REQUIRED	
RET.	RETURN	
RG	RETURN GRILLE	
RM.	ROOM	
RMG	REINFORCED MASONRY GROUT	
RPM	REVOLUTION/MINUTE	
S		
S.	SUPPLY	
SA	SUPPLY AIR	
SCH.	SCHEDULE	
SECT.	SECTION	
SERV.	SERVICE	
SFG	STOREFRONT GLAZING	
SG	SEMIGLOSS	
SHT.	SHEET	
SJ.	SLIP JOINT	
SPEC.	SPECIFICATIONS	
SF	SQUARE FEET	
STL	STEEL	
STOR.	STORAGE	
STRUC.	STRUCTURAL	
SUSP.	SUSPENDED	
SV	SHEET VINYL	
SW.	SWITCH	

T		
TEL.	TELEPHONE	
TEMP.	TEMPERATURE	
THK.	THICKNESS	
THD.	THRESHOLD	
TOIL.	TOILET	
T.O.P.	TOP OF PARAPET	
TYP.	TYPICAL	
V		
V.	VOLT	
VCG	VINYL COVERED GYPSUM CEILING TILE	
VCT	VINYL COMPOSITION TILE	
VT	VINYL TILE	
VENT.	VENTILATION	
VERT.	VERTICAL	
VTR.	VENT THRU ROOF	
U		
UNO	UNLESS NOTED OTHERWISE	
W		
W.	WATT	
WB	WALL BASE	
W/	WITH	
WD.	WOOD	
WF	WIDE FLANGE	
W.G.	WATER GAGE	
WP.	WEATHERPROOF	
WTR.	WATER	
WWF	WELDED WIRE FABRIC	

REFERENCE SYMBOLS

BUILDING SECTION — A1 / A100 — DRAWING NO. / SHEET NO. WHERE SECT. IS DRAWN — SECT. LINE

WALL OR SECTION DETAIL — SH / RFH — DRAWING NO. / SHEET NO. WHERE SECT. IS DRAWN — SECT. LINE

PLAN OR SECTION DETAIL — A1 / A100 — DWG. NO. — LONG DASHES AROUND AREA DETAILED — SHEET NO. WHERE DETAIL IS DRAWN

ELEVATION — A1 / A100 — DRAWING NO. / SHEET NO. WHERE ELEV. IS DRAWN

DOOR TAG — 100 / 20 — DOOR NO. / FIRE RATING (IN MINUTES OR HOURS) IF APPLICABLE

ROOM NAME & NUMBER — ROOM / 101 — ROOM NAME / ROOM NO.

WINDOW TYPE — X — WINDOW TYPE

CONSTRUCTION SUBSYSTEM — F1 / W1 — FLOOR TYPE / WALL TYPE

WALL OR PARTITION TYPES — 1 — PARTITION TYPE

EXISTING PARTITION TO REMAIN — E — PARTITION TYPE

PAINT TAG SEE FINISH SCHEDULE — AP / P / P / P — INDICATES LOCATION OF ACCENT COLOR WALL / INDICATES LOCATION OF PAINT COLOR WALL

NORTH ARROW — N — TRUE NORTH / PLAN NORTH IF APPLICABLE

MATERIAL SYMBOLS

- EARTH/COMPACT FILL
- POROUS FILL
- CONCRETE
- SAND, MORTAR, GYPSUM BOARD
- FOAM FILLED INSULATION
- CONCRETE MASONRY
- ROUGH WOOD
- WOOD BLOCKING
- BATT INSULATION
- RIGID INSULATION
- STEEL/OTHER METALS
- FINISH WOOD
- PLYWOOD

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KEYNOTES
ABBREVIATIONS

AG001

CODE ANALYSIS

CODE ITEM	DESCRIPTION	2018 IBC CODE REFERENCE
OCCUPANCY CLASSIFICATION	A5	CHAPTER 3 – SECTION 304
TYPE OF CONSTRUCTION	TYPE VB NON–SPRINKLERED	CHAPTER 6 – SECTION 602.5
GENERAL HEIGHT AND BUILDING AREA		CHAPTER 5 TABLE 503
ALLOWABLE AREA 9,000 SF ACTUAL AREA 1,112 SF	ALLOWABLE HEIGHT (FEET) 40' ACTUAL HEIGHT (FEET) 20'–5"	ALLOWABLE HEIGHT (STORIES) 2 ACTUAL HEIGHT (STORIES) 1
AREA MODIFICATIONS	N.A.	CHAPTER 5 – SECTION 506
HEIGHT MODIFICATIONS	N.A.	CHAPTER 5 – SECTION 504
FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS		CHAPTER 6 – TABLE 601

BUILDING ELEMENT	RATING (Hours)	BUILDING ELEMENT	RATING (Hours)
STRUCTURAL FRAME	0	NONBEARING WALLS & PARTITIONS INTERIOR	0
BEARING WALLS INTERIOR EXTERIOR	0 0	FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS & JOISTS	0
NONBEARING WALLS & PARTITIONS EXTERIOR	SEE TABLE 602	ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS & JOISTS	0

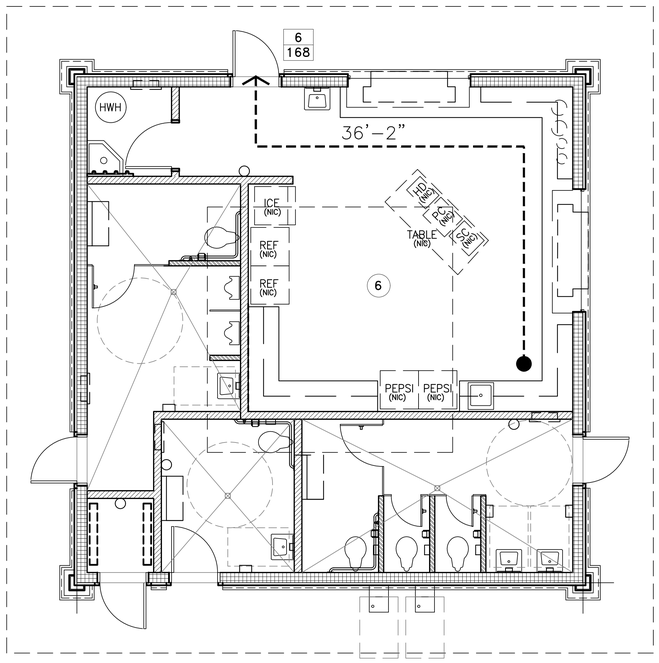
OCCUPANT LOAD CALCULATIONS			CHAPTER 10 – TABLE 1004.5
FUNCTION OF SPACE	FLOOR AREA IN SQ. FT. PER OCCUPANT	AREA IN SQ. FT.	NUMBER OF OCCUPANTS
CONCESSIONS	100 SF GROSS	508 SF	6 OCCUPANTS

EGRESS WIDTH CALCULATIONS				CHAPTER 10 – SECTION 1005
NUMBER OF OCCUPANTS	WITHOUT SPRINKLERS STAIRWAYS	WITHOUT SPRINKLERS OTHER EGRESS COMPONENTS	WITH SPRINKLERS STAIRWAYS	WITH SPRINKLERS OTHER EGRESS COMPONENTS
	0.3" / OCCUPANT	0.2" / OCCUPANT	0.2" / OCCUPANT	0.15" / OCCUPANT
6 OCCUPANTS	N.A.	1.2"	N.A.	N.A.

MINIMUM NUMBER OF EXITS FOR OCCUPANT LOAD (SPACES WITH ONE EXIT)	CHAPTER 10 – TABLE 1006.2.1
A5 OCCUPANCY; 1 STORY; MAX. 6 OCCUPANTS AND 100' TRAVEL = 1 EXIT REQUIRED (OL < 30) – 1 EXIT PROVIDED	

EXIT ACCESS TRAVEL DISTANCE			CHAPTER 10 – TABLE 1017.2
	WITHOUT SPRINKLERS	WITH SPRINKLERS	
A5 OCCUPANCY	200'	250'	MAXIMUM TRAVEL DISTANCE TO AN EXIT 36'–2"

PLUMBING FIXTURES REQUIRED					CHAPTER 29 – TABLE 2902.1
NUMBER OF OCCUPANTS	199	WC	LAV	199	WC LAV
ASSEMBLY (A5)	MALE	1/200 = 1.0	1/300 = 1.0	FEMALE	1/100 = 2.0 1/300 = 1.0
BLEACHERS 8 @38 =304 FIELD 4 @22 =088 CONCESSIONS =006 TOTAL 398	TOTAL REQUIRED TOTAL PROVIDED	1 1 + 2 URINALS	1 1	TOTAL REQUIRED TOTAL PROVIDED	2 1 3 2
		WC	LAV		
	FAMILY / ASSISTED USE	1 PROVIDED	1 PROVIDED		



1 HOUR FIRE RATING
30 MIN. FIRE RATING
FD60 1 HOUR FIRE DOOR
FD45 45 MIN. FIRE DOOR
FD20 20 Min. Fire Door

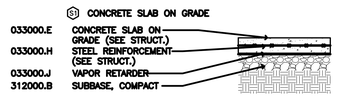
O.L. OCCUPANCY LOAD IN PERSONS
(4) OCCUPANCY LOAD FOR EGRESS
55/200 EGRESS DESIGN LOAD / ALLOWABLE CAPACITY

C1 CODE FLOOR PLAN - CONCESSION
1/4" = 1'-0"

CONSTRUCTION SUBSYSTEMS

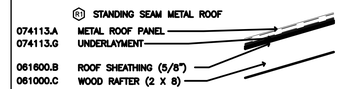
SLAB SYSTEMS

S1 CONCRETE SLAB ON GRADE

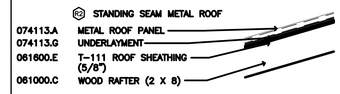


ROOF SYSTEMS

R1 STANDING SEAM METAL ROOF

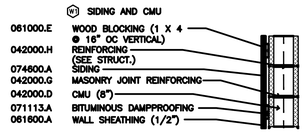


R2 STANDING SEAM METAL ROOF

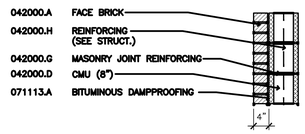


EXTERIOR WALL SYSTEMS

W1 SIDING AND CMU

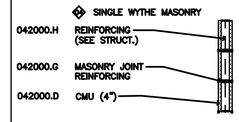


W2 FACE BRICK WITH CMU

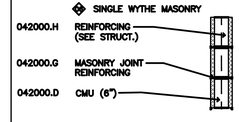


PARTITION SYSTEMS

P1 SINGLE WYTHE MASONRY



P2 SINGLE WYTHE MASONRY



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CODE ANALYSIS & CONSTRUCTION SUBSYSTEMS

A001

SCDOT STANDARD NOTES:

1. THERE CAN BE NO WORK PERFORMED IN THE SCDOT R/W BEFORE AN ENCROACHMENT PERMIT HAS BEEN ISSUED AND A PRECONSTRUCTION MEETING HAS BEEN HELD. THE PROPERTY OWNER AND CONTRACTOR MUST SCHEDULE AND ATTEND THE PRECONSTRUCTION MEETING.

2. ANY WORK PERFORMED BEFORE THE PRECONSTRUCTION MEETING WILL HAVE TAKEN PLACE WITHOUT SCDOT KNOWLEDGE, OVERSIGHT, AND CONSENT AND SHALL BE SUBJECT TO REMOVAL BY THE APPLICANT AND/OR AT THE APPLICANT'S EXPENSE.

3. ANY REVISIONS TO THIS APPROVED PLAN SET MUST HAVE PRIOR, WRITTEN APPROVAL FROM SCDOT OR ARE SUBJECT TO REMOVAL AT THE APPLICANT'S EXPENSE.

4. THE CONSTRUCTION ENTRANCE MUST BE ESTABLISHED AT THE LOCATION DESIGNATED IN THIS PLAN SET AND ACCORDING TO SCDOT TYPICAL 815-505-00. NO ADDITIONAL ENTRANCES OR LOCATIONS OTHER THAN SHOWN IN THIS PLAN SET ARE ALLOWED WITHOUT WRITTEN NOTICE FROM SCDOT. APPROVED CONSTRUCTION ENTRANCE SHALL BE INSTALLED PROPERLY AND SHALL BE MAINTAINED AT ALL TIMES. KEEP ROADWAY PROTECTED AND SWEPT OFF AT ALL TIMES. ANY ADDITIONAL, EXISTING DRIVEWAYS OR CONSTRUCTION ENTRANCES, IF ANY, SHALL BE REMOVED FROM SCDOT RIGHT OF WAY AT NO EXPENSE TO SCDOT.

5. NO DEWATERING ACTIVITIES SHALL BE PERFORMED WITHIN SCDOT R/W OR BRING FORTH WATER TO THE SCDOT RIGHT OF WAY BY DIRECT OR INDIRECT METHODS.

6. POST DEVELOPMENT STORMWATER FLOWS TO THE SCDOT R/W CANNOT EXCEED PREDEVELOPMENT FLOW RATES AT ANY TIME FOR ANY REASON.

7. THE APPLICANT IS SOLELY RESPONSIBLE FOR REPAIRS OF ANY AND ALL DAMAGE TO THE TRAVEL WAY DUE TO ANY WORK ALONG THE FRONTAGE OF THIS SITE, AT NO EXPENSE TO SCDOT AND ALL REPAIRS MUST MEET CURRENT SCDOT STANDARDS.

8. ANY DAMAGE TO THE TRAVEL LANE WILL REQUIRE A FULL DEPTH ASPHALT PATCH AND TOTAL ROADWAY (ALL ADJACENT TRAVEL LANES) ASPHALT OVERLAY. PATCHES LARGER THAN A FEW SQUARE FEET OR EXTENDING PAST 1 FOOT INTO THE TRAVEL LANE SHALL REQUIRE AN OVERLAY OF THE ENTIRE WIDTH OF THE EXISTING TRAVEL WAY FOR 50 FEET BEYOND EACH SIDE OF THE FULL DEPTH PATCH. ALL OF THIS WORK WILL BE SOLELY AT THE EXPENSE OF THE APPLICANT AND MUST MEET CURRENT SCDOT STANDARDS.

9. BEFORE INSTALLATION OF ANY NEW DRIVEWAY, THE EXISTING TRAVEL EDGE MUST BE SAW CUT TO PROVIDE A STRAIGHT AND UNIFORM EDGE ALONG THE MOUTH OF THE PROPOSED DRIVEWAY. CARE MUST BE TAKEN TO NOT TO DAMAGE THE EDGE ONCE CUT. ANY DAMAGE TO THE TRAVEL LANE MUST BE REPAIRED AT THE APPLICANT'S EXPENSE.

10. PAVEMENT SECTION IN THE SCDOT R/W SHALL BE, AT A MINIMUM:
    a. 6 INCHES OF COMPACTED GABC
    b. 4 INCHES OF COMPACTED TYPE B BINDER COURSE HOT MIX ASPHALT
    c. 2 INCHES OF COMPACTED TYPE B SURFACE COURSE HOT MIX ASPHALT
    SEE SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION FOR SURFACE COURSE HOT MIX ASPHALT INSTALLATION TIME AND TEMPERATURE RESTRICTIONS AND THERMO PLASTIC TIME AND TEMPERATURE RESTRICTIONS.
    OR
    d. 8 INCHES OF COMPACTED GABC
    e. 4 INCHES OF 4,000 PSI CONCRETE
    NO REINFORCEMENT WIRE, REBAR, OR METAL OF ANY KIND IS PERMITTED

11. DRIVEWAY LANES SHALL BE A MINIMUM OF 12 FEET IN WIDTH MEASURED FROM EDGE TO EDGE OF ASPHALT.

12. DRIVEWAY RADII SHALL BE 30 FEET. (UNLESS NOTED OTHERWISE ON THE SCDOT APPROVED PLANS.

13. PAVEMENT MARKINGS SHALL BE THERMOPLASTIC WITH REFLECTIVE BEADS PER SECTION 627 OF THE SCDOT STANDARD SPECIFICATIONS:

    a. ALL WHITE MARKINGS SHALL BE 125 MIL MINIMUM THICKNESS

    b. ALL YELLOW MARKINGS SHALL BE 90 MIL MINIMUM THICKNESS

14. ALL PERMANENT SIGNAGE SHALL BE INSTALLED ON BREAKAWAY POSTS PER SCDOT STANDARD DRAWING 651-110-00 AND SHALL HAVE A 7 VERTICAL FOOT CLEARANCE FROM THE GROUND TO THE BOTTOM OF THE SIGN.

15. DRIVEWAYS SHALL BE CONSTRUCTED TO HAVE A MINIMUM OF A 2 FOOT GRASSED SHOULDER ON EACH SIDE OF THE DRIVEWAY THROAT.

16. DITCH SLOPES SHALL BE NO STEEPER THAN 3H:1V.

17. ALL DRIVEWAY CULVERTS SHALL BE INSTALLED AND SEALED ACCORDING TO SCDOT TYPICAL 714-205-01 DETAIL 4 AND 5 WITH AN AASHTO M 315 RUBBER GASKET SEAL, ON PROPER GRADE TO ALLOW FOR POSITIVE STORM WATER FLOW WITHIN THE PIPE AND TO/FROM ADJACENT PIPES/CROSS LINES.

18. ALL CULVERTS INSIDE OF THE SCDOT R/W ARE TO BE INSTALLED WITH BEVELED ENDS PER SCDOT STANDARD DRAWING 719-610-00 AND SEALED PER SCDOT STANDARD DRAWING 714-205-01 AND CANNOT BE COVERED UNTIL AFTER AN INSPECTION BY THE SCDOT INSPECTOR ASSIGNED TO THE PROJECT AT THE REQUIRED SCDOT PRECONSTRUCTION MEETING.

19. LANE CLOSURES ARE REQUIRED FOR ALL WORK WITHIN ONE FOOT OF THE TRAVEL WAY. SEE SCDOT LOCAL MAINTENANCE WORK RESTRICTIONS FOR ADDITIONAL INFORMATION.

20. SHOULDER CLOSURES ARE REQUIRED FOR ALL WORK IN THE SCDOT R/W BEYOND ONE FOOT FROM THE TRAVEL WAY.

21. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SCHEDULE ALL REQUIRED INSPECTIONS IN ADVANCE. IF WORK REQUIRING INSPECTION IS PERFORMED WITHOUT PRIOR NOTICE BEING GIVEN TO SCDOT, THAT INSTALLATION SHALL BE SUBJECT TO REMOVAL AT THE APPLICANT'S EXPENSE. SEVERAL MEANS OF CONTACT WILL BE GIVEN AT THE PRECONSTRUCTION MEETING. FAILURE TO OBTAIN CONTACT IS NOT AN APPROVAL TO PROCEED WITH ANY WORK.

22. NO VEGETATION INSTALLED ON PRIVATE PROPERTY SHALL BLOCK THE SCDOT SIGHT TRIANGES OR SIGHT DISTANCES FOR MOTORISTS INGRESS OR EGRESSING FROM APPROVED DRIVEWAYS AND OR ROADWAY INTERSECTIONS. THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR KEEPING OFFSITE LANDSCAPINGS PROPERLY MAINTAINTED TO IMPROVE ALL SIGHT DISTANCES. THE PROPERTY OWNER SHALL ALSO BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGES TO SIDEWALK, DRIVEWAY OR ROADWAY, UTILITY, DRAINAGE OR OTHER STRUCTURES DAMAGED DUE TO THE INSTALLATION OR EXISTENCE OF OFFSITE LANDSCAPING.

23. THE DEPARTMENT SHALL NOT BE RESPONSIBLE FOR DAMAGE TO ANY UTILITY STRUCTURES LOCATED WITHIN THE RIGHT-OF-WAY AS A RESULT OF ROUTINE HIGHWAY MAINTENANCE OPERATIONS. THESE STRUCTURES INCLUDE BUT ARE NOT LIMITED TO ARV, METERS, VALVES, MANHOLES, ALL TYPE OF PEDESTALS AND UTILITY LINES (OVERHEAD AND/OR UNDERGROUND). THE APPLICANT SHOULD USE MECHANICAL MOWERS TO CUT AROUND THESE TYPE STRUCTURES TO INCREASE VISIBILITY FOR HIGHWAY MAINTENANCE WORKERS.

24. APPLICANT IS RESPONSIBLE FOR THE INSTALLATION AND SECURING OF ANY VALVE OR MANHOLE RISERS AS NEEDED.

25. THE DEPARTMENT SHALL BE HELD HARMLESS FROM AND AGAINST ANY AND ALL CLAIMS, DAMAGES AND LOSSES ASSOCIATED WITH WORK AS APPROVED UNDER THIS PERMIT APPLICATION. ANY SUCH DAMAGE CLAIMS RECEIVED BY THE DEPARTMENT SHALL BE THE RESPONSIBILITY OF THE APPLICANT TO PROCESS ACCORDINGLY. THE HOLD HARMLESS AGREEMENT SHALL BE FOR THE LIFE OF THE FACILITY, STRUCTURE(S) OR ENCROACHMENT AS IT REMAINS WITHIN PUBLIC RIGHT-OF-WAY.

26. APPLICANT IS RESPONSIBLE FOR THE REPAIR OF ANY TRAFFIC SIGNAL LOOPS/WIRES/HEAD/CABINETS IF DAMAGED DUE TO THIS INSTALLATION. ALL WORK SHALL BE APPROVED UNDER THE DIRECTION OF THE SCDOT DISTRICT SIGNAL SHOP AND PERFORMED BY A SCDOT APPROVED SIGNAL CONTRACTOR, AT NO EXPENSE TO THE DEPARTMENT.

27. IF REQUIRED UNDER THE APPROVED SCDOT ENCROACHMENT PERMIT, A THIRD PARTY TESTER SHALL BE REQUIRED AT THE APPLICANT'S EXPENSE TO PERFORM COMPACTION ANALYSIS AND WITNESS A PASSING PROOF ROLL ON ALL SUB-GRADE, BASE, AND ASPHALT. ONE THIRD PARTY INSPECTOR SHALL TAKE DENSITY READINGS AT RANDOM STATION NUMBERS. A SECOND (2ND) THIRD PARTY INSPECTOR/TESTER SHALL BE AT THE ASPHALT PLANT TESTING THE ASPHALT AT THE TIME THAT SURFACE ASPHALT IS BEING PRODUCED AND PUT DOWN ON THE JOB. ONE CORE SAMPLE (LOCATIONS TO BE DETERMINED) SHALL BE TAKEN AND WEIGHED BY THE THIRD PARTY INSPECTOR. ALL RESULTS TO BE SUBMITTED IN WRITING TO SCDOT FOR REVIEW THE FOLLOWING DAY. WINTER WORK RESTRICTIONS AND HOLIDAY WORK RESTRICTIONS MUST BE ADHERED TO. SEE PERMIT FOR MORE DETAILS.

28. AN INSPECTION DATE SHALL BE SET UP IN ADVANCE FOR WHICH THE INSPECTOR WILL COME OUT AND INSPECT THE SIDEWALK FORMS BEFORE POURING CONCRETE. DO NOT LEAVE MORE THAN A 2" DROP OFF UNATTENDED. NO MORE THAN A 2" DROP OFF OR A 3:1 DITCH SLOPE IS PERMITTED ANYWHERE WITHIN THE RIGHT OF WAY DUE TO THE CONSTRUCTION ASSOCIATED WITH THIS SIDEWALK. THE INSTALLATION OF SIDEWALK SHALL BE FLUSH WITH SHOULDER OR HAVE A DRAINAGE INLET BUILT UNDERNEATH TO ALLOW FOR PROPER STORM WATER FLOW. NO WATER SHALL POND IN SHOULDER, ROADWAY, DRIVEWAYS, OR RIGHT OF WAY DUE TO THIS INSTALLATION.

29. ADA MATS (RAISED DETECTABLE WARNING PADS) SHALL BE INSTALLED AS WET INSETS AND AT ROADWAY INTERSECTIONS ONLY.

30. NO VALVES OR OTHER APPURTENANCES IN ROADWAY ASPHALT, WITHIN 5 FEET OF EDGE OF PAVEMENT, OR WITHIN DITCH LINE OR SWALE LINE. APPLICANT SHALL INSTALL 8-16 FEET OF NEW, UNDAMAGED RCP ON PROPER GRADE, FACING THE PROPER DIRECTION, MATCHING THE DIAMETER OF DRIVEWAY AND/OR CROSS LINE UPSTREAM, BUT NOT EXCEEDING THE PIPE DIAMETER DOWNSTREAM, IF THE ABOVE CANNOT BE AVOIDED. INSTALL RIP RAP AROUND ANY EXPOSED PIPES, COVER AND SOD TO MEET SCDOT MINIMUM STANDARDS. CALL SCDOT ENCROACHMENT OFFICE FOR INSPECTION OF PIPE BEFORE COVERING.

31. PROPOSED UTILITY INSTALLATION LOCATED IN SHOULDER AREA SHALL HAVE A MINIMUM COVER OF 42" ACCORDING TO FIGURE 6 OF APPENDIX B. ANY EXPOSED ROOTS TO BE REMOVED OR TRIMMED FLUSH WITH SHOULDER/DITCH.

32. ALL UTILITY ENCROACHMENTS SHALL BE SUBMITTED UNDER A SEPARATE APPLICATION.

SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 29814
4/14/21
ERIC K. SANFORD

SOUTH CAROLINA
BOLTON & MENK SOUTHEAST, LLC
No. 6475
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PROJECT NUMBER: 19101E
ISSUE DATE: 11/13/2020

DRAWN BY: JBE
CHECKED BY: EKS

Permit Drawings

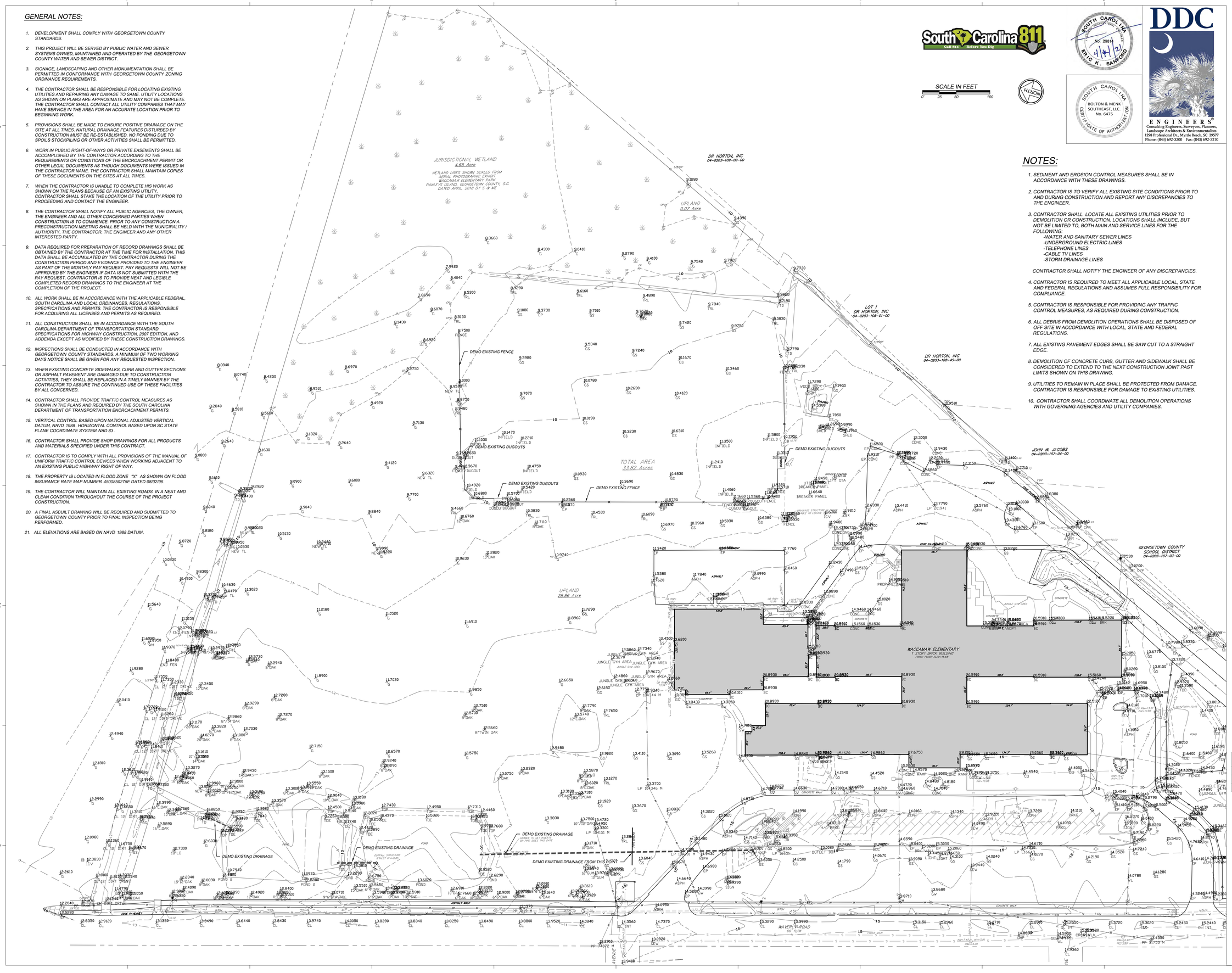
Revision Schedule		
#	Description	Date
2	SCDHEC COMMENTS	2-04-21
4	GT. STORM COMMENTS	4-14-21

SCDOT NOTES

C-002

GENERAL NOTES:

1. DEVELOPMENT SHALL COMPLY WITH GEORGETOWN COUNTY STANDARDS.
2. THIS PROJECT WILL BE SERVED BY PUBLIC WATER AND SEWER SYSTEMS OWNED, MAINTAINED AND OPERATED BY THE GEORGETOWN COUNTY WATER AND SEWER DISTRICT.
3. SIGNAGE, LANDSCAPING AND OTHER MONUMENTATION SHALL BE PERMITTED IN CONFORMANCE WITH GEORGETOWN COUNTY ZONING ORDINANCE REQUIREMENTS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING UTILITIES AND REPAIRING ANY DAMAGE TO SAME. UTILITY LOCATIONS AS SHOWN ON PLANS ARE APPROXIMATE AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES THAT MAY HAVE SERVICE IN THE AREA FOR AN ACCURATE LOCATION PRIOR TO BEGINNING WORK.
5. PROVISIONS SHALL BE MADE TO ENSURE POSITIVE DRAINAGE ON THE SITE AT ALL TIMES. NATURAL DRAINAGE FEATURES DISTURBED BY CONSTRUCTION MUST BE RE-ESTABLISHED. NO PONDING DUE TO SPOILS STOCKPILING OR OTHER ACTIVITIES SHALL BE PERMITTED.
6. WORK IN PUBLIC RIGHT-OF-WAYS OR PRIVATE EASEMENTS SHALL BE ACCOMPLISHED BY THE CONTRACTOR ACCORDING TO THE REQUIREMENTS OR CONDITIONS OF THE ENCROACHMENT PERMIT OR OTHER LEGAL DOCUMENTS AS THOUGH DOCUMENTS WERE ISSUED IN THE CONTRACTOR NAME. THE CONTRACTOR SHALL MAINTAIN COPIES OF THESE DOCUMENTS ON THE SITES AT ALL TIMES.
7. WHEN THE CONTRACTOR IS UNABLE TO COMPLETE HIS WORK AS SHOWN ON THE PLANS BECAUSE OF AN EXISTING UTILITY, CONTRACTOR SHALL STAKE THE LOCATION OF THE UTILITY PRIOR TO PROCEEDING AND CONTACT THE ENGINEER.
8. THE CONTRACTOR SHALL NOTIFY ALL PUBLIC AGENCIES, THE OWNER, THE ENGINEER AND ALL OTHER CONCERNED PARTIES WHEN CONSTRUCTION IS TO COMMENCE. PRIOR TO ANY CONSTRUCTION A PRECONSTRUCTION MEETING SHALL BE HELD WITH THE MUNICIPALITY / AUTHORITY, THE CONTRACTOR, THE ENGINEER AND ANY OTHER INTERESTED PARTY.
9. DATA REQUIRED FOR PREPARATION OF RECORD DRAWINGS SHALL BE OBTAINED BY THE CONTRACTOR AT THE TIME FOR INSTALLATION. THIS DATA SHALL BE ACCUMULATED BY THE CONTRACTOR DURING THE CONSTRUCTION PERIOD AND EVIDENCE PROVIDED TO THE ENGINEER AS PART OF THE MONTHLY PAY REQUEST. PAY REQUESTS WILL NOT BE APPROVED BY THE ENGINEER IF DATA IS NOT SUBMITTED WITH THE PAY REQUEST. CONTRACTOR IS TO PROVIDE NEAT AND LEGIBLE COMPLETED RECORD DRAWINGS TO THE ENGINEER AT THE COMPLETION OF THE PROJECT.
10. ALL WORK SHALL BE IN ACCORDANCE WITH THE APPLICABLE FEDERAL, SOUTH CAROLINA AND LOCAL ORDINANCES, REGULATIONS, SPECIFICATIONS AND PERMITS. THE CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ALL LICENSES AND PERMITS AS REQUIRED.
11. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2007 EDITION, AND ADDENDA EXCEPT AS MODIFIED BY THESE CONSTRUCTION DRAWINGS.
12. INSPECTIONS SHALL BE CONDUCTED IN ACCORDANCE WITH GEORGETOWN COUNTY STANDARDS. A MINIMUM OF TWO WORKING DAYS NOTICE SHALL BE GIVEN FOR ANY REQUESTED INSPECTION.
13. WHEN EXISTING CONCRETE SIDEWALKS, CURB AND GUTTER SECTIONS OR ASPHALT PAVEMENT ARE DAMAGED DUE TO CONSTRUCTION ACTIVITIES, THEY SHALL BE REPLACED IN A TIMELY MANNER BY THE CONTRACTOR TO ASSURE THE CONTINUED USE OF THESE FACILITIES BY ALL CONCERNED.
14. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL MEASURES AS SHOWN IN THE PLANS AND REQUIRED BY THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION ENCROACHMENT PERMITS.
15. VERTICAL CONTROL BASED UPON NATIONAL ADJUSTED VERTICAL DATUM, NAVD 1988. HORIZONTAL CONTROL BASED UPON SC STATE PLANE COORDINATE SYSTEM NAD 83.
16. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ALL PRODUCTS AND MATERIALS SPECIFIED UNDER THIS CONTRACT.
17. CONTRACTOR IS TO COMPLY WITH ALL PROVISIONS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES WHEN WORKING ADJACENT TO AN EXISTING PUBLIC HIGHWAY RIGHT OF WAY.
18. THE PROPERTY IS LOCATED IN FLOOD ZONE "X" AS SHOWN ON FLOOD INSURANCE RATE MAP NUMBER 4500850275E DATED 08/02/96.
19. THE CONTRACTOR WILL MAINTAIN ALL EXISTING ROADS IN A NEAT AND CLEAN CONDITION THROUGHOUT THE COURSE OF THE PROJECT CONSTRUCTION.
20. A FINAL ASBUILT DRAWING WILL BE REQUIRED AND SUBMITTED TO GEORGETOWN COUNTY PRIOR TO FINAL INSPECTION BEING PERFORMED.
21. ALL ELEVATIONS ARE BASED ON NAVD 1988 DATUM.



NOTES:

1. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THESE DRAWINGS.
2. CONTRACTOR IS TO VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO AND DURING CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
3. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES PRIOR TO DEMOLITION OR CONSTRUCTION. LOCATIONS SHALL INCLUDE, BUT NOT BE LIMITED TO, BOTH MAIN AND SERVICE LINES FOR THE FOLLOWING:
   - -WATER AND SANITARY SEWER LINES
   - -UNDERGROUND ELECTRIC LINES
   - -TELEPHONE LINES
   - -CABLE TV LINES
   - -STORM DRAINAGE LINES

   CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
4. CONTRACTOR IS REQUIRED TO MEET ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS AND ASSUMES FULL RESPONSIBILITY FOR COMPLIANCE.
5. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ANY TRAFFIC CONTROL MEASURES, AS REQUIRED DURING CONSTRUCTION.
6. ALL DEBRIS FROM DEMOLITION OPERATIONS SHALL BE DISPOSED OF OFF SITE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
7. ALL EXISTING PAVEMENT EDGES SHALL BE SAW CUT TO A STRAIGHT EDGE.
8. DEMOLITION OF CONCRETE CURB, GUTTER AND SIDEWALK SHALL BE CONSIDERED TO EXTEND TO THE NEXT CONSTRUCTION JOINT PAST LIMITS SHOWN ON THIS DRAWING.
9. UTILITIES TO REMAIN IN PLACE SHALL BE PROTECTED FROM DAMAGE. CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO EXISTING UTILITIES.
10. CONTRACTOR SHALL COORDINATE ALL DEMOLITION OPERATIONS WITH GOVERNING AGENCIES AND UTILITY COMPANIES.

South Carolina 811 Call 811 Before You Dig

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 29814 ERIC K. SANFORD 4/14/21

SOUTH CAROLINA BOLTON & MENK SOUTHEAST, LLC. No. 6475 CERTIFICATE OF AUTHORIZATION

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WAVERLY PARK

AT
WACCAMAW ELEMENTARY SCHOOL
1364 WAVERLY RD.
PAWLEY'S ISLAND, SC 29585

PROJECT NUMBER: 19101E
ISSUE DATE: 11/13/2020
DRAWN BY: JBE
CHECKED BY: EKS

Permit Drawings

Revision Schedule		
#	Description	Date
2	SCDHEC COMMENTS	2-04-21
4	GT. STORM COMMENTS	4-14-21

EXISTING CONDITIONS / DEMOLITION PLAN

C-101

PROJECT DATA:
TOTAL AREA 35.2 AC

IMPERVIOUS

BUILDINGS=110,702 SF
ASPHALT (PARKING & DRIVES)=215,821 SF
SIDEWALKS, PADS, ETC.=36,877 SF

TOTAL=363,400 SF (8.34 AC)

23.7% IMPERVIOUS

PERVIOUS AREA

OPEN SPACE=1,150,706 SF
PERVIOUS CONCRETE=19,206 SF

TOTAL=1,169,912 SF (26.86 AC)

76.3% IMPERVIOUS

SITE LEGEND

- STANDARD DUTY ASPHALT PAVEMENT (SEE DETAIL)
- HEAVY DUTY ASPHALT PAVEMENT (SEE DETAIL)
- CONCRETE SIDEWALK (SEE DETAIL)
- HEAVY DUTY CONCRETE PAVEMENT (SEE DETAIL)
- PERVIOUS CONCRETE (SEE DETAIL)

NOTES

1. RADII AND PARKING DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.

2. DEVELOPMENT SHALL COMPLY WITH GEORGETOWN COUNTY ZONING AND LAND DEVELOPMENT REGULATIONS, LATEST EDITIONS.

SITE DATA

CURRENT ZONING	-	MR10 (10,000 SF RESIDENTIAL DISTRICT)
PIN Number	-	04-0203-017-00-00
FLOOD ZONE	-	EXISTING FLOOD ZONE X
ONSITE SOILS	-	ECHAW, YAUHANNAH, LEON
ZIP CODE	-	29440

UTILITIES

STORMWATER	-	GEORGETOWN CO. STORMWATER/SCDHEC
WATER / SEWER	-	GEORGETOWN CO. WATER SEWER DISTRICT
CABLE / PHONE	-	VERIZON
ELECTRIC	-	SANTEE COOPER
FIRE	-	MIDWAY FIRE RESCUE

South Carolina 811 Call 811 Before You Dig

SCALE IN FEET
0' 25 50 100

NORTH

SOUTH CAROLINA REGISTERED LANDSCAPE ARCHITECT No. 2981 ERIC K. SANFORD 4/14/21

SOUTH CAROLINA BOLTON & MENK SOUTHEAST, LLC. No. 6475 CERTIFICATE OF AUTHORIZATION

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SITE PLAN KEY NOTE

- (A) EX. FLAT CURB
- (B) EXISTING CURB
- (C) STANDARD CONCRETE CURB AND GUTTER
- (D) REJECT CURB
- (E) STANDARD CURB TYPE 'B' CURB
- (F) STANDARD CURB TYPE 'C' CURB
- (G) RIBBON CURB
- (H) CURB TAPER
- (I) HEAVY DUTY ASPHALT PAVEMENT
- (J) LIGHT DUTY ASPHALT PAVEMENT
- (K) PERVIOUS CONCRETE PAVEMENT
- (L) CONCRETE PAVEMENT
- (M) DUMPSTER / COMPACTOR PADS (SEE DETAILS)
- (N) CONCRETE SIDEWALK
- (O) HANDICAP ACCESSIBLE ACCESS
- (P) HANDICAP ACCESSIBLE SIDEWALK RAMPS
- (Q) STOP SIGN (R1-1-36, SCDOT STANDARD 651-115-01)
- (R) 24" WIDE WHITE STOP BAR
- (S) PAINTED WHITE PARKING LINES
- (T) WHEEL STOP
- (U) TRANSFORMER PAD
- (V) PUMP STATION
- (W) TRANSITION
- (X) PHARMACY DIRECTIONAL SIGN
- (Y) NO SWIMMING SIGN

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	100.00'	29.66'	29.56'	S 80°51'43" W	16°59'43"
C2	350.00'	449.52'	419.25'	N 54°07'20" W	73°35'14"
C3	28.00'	43.94'	39.57'	N 62°24'40" W	89°54'59"
C4	28.00'	43.94'	39.57'	N 27°29'59" E	89°54'59"

JURISDICTIONAL WETLAND
4.65 Acre
WETLAND LINES SHOWN SCALED FROM AERIAL PHOTOGRAPHIC EXHIBIT WACCAMAW ELEMENTARY PARK PAWLEYS ISLAND, GEORGETOWN COUNTY, S.C. DATED APRIL, 2018 BY S. & ME

UPLAND
0.07 Acre

UPLAND
28.86 Acre

DR HORTON, INC.
04-0203-109-00-00

LOT 1
DR HORTON, INC
04-0203-108-01-00

DR HORTON, INC.
04-0203-108-45-00

JOHN W. JACOBS
04-0203-107-04-00

GEORGETOWN COUNTY SCHOOL DISTRICT
04-0203-107-03-00

WACCAMAW ELEMENTARY
1 STORY BRICK BUILDING
FINISH FLOOR ELEV=11.68'

RELOCATED PLAYGROUND

HANDICAP PARKING SIGN (R7-8-8A) TYP. OF ALL

4" DOUBLE YELLOW CENTERLINE (50LF)

START CONSTRUCTION ON COCHRAN ROAD (STA 0+08.37)

WAVERLY ROAD (S-46)

WAVERLY ROAD
66' R/W

WAVERLY PARK

AT
WACCAMAW ELEMENTARY SCHOOL
1364 WAVERLY RD.
PAWLEY'S ISLAND, SC 29585

PROJECT NUMBER:
19101E
ISSUE DATE:
11/13/2020

DRAWN BY: JBE
CHECKED BY: EKS

Permit Drawings

Revision Schedule		
#	Description	Date
1	SCDOT COMMENTS	1-20-21
2	SCDHEC COMMENTS	2-04-21
4	GT. STORM COMMENTS	4-14-21

CIVIL SITE PLAN

C-102

SYMBOL	PRACTICE	DESCRIPTION
SF	SILT FENCE	A TEMPORARY STRUCTURE USED TO SLOW THE VELOCITY OF RUN-OFF. CAUSE SEDIMENT DEPOSITION AT THE STRUCTURE, AND FILTER SEDIMENT FROM RUN-OFF.
CL	CONSTRUCTION LIMITS	A DEFINED AREA THAT ALL LAND DISTURBANCE WILL OCCUR DURING CONSTRUCTION.
CE	CONSTRUCTION ENTRANCE	A STONE STABILIZED PAD LOCATED AT ANY POINT THAT TRAFFIC WILL BE LEAVING A CONSTRUCTION SITE TO A PUBLIC RIGHT-OF-WAY, STREET, ALLEY, SIDEWALK, OR PARKING PLOT WHICH WILL REDUCE OR ELIMINATE THE TRANSPORT OF MUD FROM THE CONSTRUCTION SITE.
DSF	DOUBLE SILT FENCE	A TEMPORARY STRUCTURE USED TO SLOW THE VELOCITY OF RUN-OFF. CAUSE SEDIMENT DEPOSITION AT THE STRUCTURE, AND FILTER SEDIMENT FROM RUN-OFF. USED ALONG EXISTING WETLANDS.

NOTE:
REFER TO SEDIMENT AND EROSION CONTROL NOTES AND DETAILS FOR BMP INSTALLATION AND PROCEDURE.

NOTE:
CLEARING AND FINE GRADING IN THE BUFFER ZONE IS TO BE COMPLETED PRIOR TO ANY WORK OUTSIDE OF THE BUFFER ZONE. THE BUFFER ZONE SHOULD BE SEEDED AND STABALIZED BEFORE ANY WORK OUTSIDE OF THE CONSTRUCTION ZONE IS STARTED.

JURISDICTIONAL WETLAND
4.65 Acre
WETLAND LINES SHOWN SCALED FROM AERIAL PHOTOGRAPHIC EXHIBIT WACCAMAW ELEMENTARY PARK PAWLEYS ISLAND, GEORGETOWN COUNTY, S.C. DATED APRIL, 2018 BY S & ME

UPLAND
0.07 Acre

UPLAND
28.86 Acre

TOTAL AREA
33.62 Acres

30' CONSTRUCTION BUFFER

DR HORTON, INC
04-0203-109-00-00

LOT 1
DR HORTON, INC
04-0203-108-01-00

DR HORTON, INC
04-0203-108-45-00

JOHN W. JACOBS
04-0203-107-04-00

GEORGETOWN COUNTY SCHOOL DISTRICT
04-0203-107-03-00

WACCAMAW ELEMENTARY
1 STORY BRICK BUILDING
FINISH FLOOR ELEV=15.68'

WAVERLY ROAD
66' R/W

SHIPMASTER AVENUE

RUSSELL DRIVE

SCALE IN FEET
0' 25 50 100

NORTH

SOUTH CAROLINA 811
Call 811 Before You Dig

SOUTH CAROLINA
REGISTERED LANDSCAPE ARCHITECT
No. 2981
4/14/21
ERIC K. SANFORD

SOUTH CAROLINA
BOLTON & MENK SOUTHEAST, LLC.
No. 6475
CERTIFICATE OF AUTHORIZATION

DDC ENGINEERS
Consulting Engineers, Surveyors, Planners, Landscape Architects & Environmentalists
1298 Professional Dr., Myrtle Beach, SC 29577
Phone: (843) 692-3200 Fax: (843) 692-3210

SGA NarmourWright DESIGN
8263 Ocean Highway
Pawleys Island, SC 29585
p 843.237.3421
www.sganwdesign.com

NOTE:

1. *THE PROPERTY IS LOCATED IN FLOOD ZONE X AS SHOWN ON FLOOD INSURANCE RATE MAP NUMBER 4500850275E DATED 08/02/96 AND EXISTING FLOOD ZONE LINES (IF APPLICABLE) ARE SCALED AND APPROXIMATE ONLY.*
2. *WORK CANNOT BE PERFORMED IN WETLAND AREAS DESIGNATED TO BE FILLED UNTIL ALL NECESSARY PERMITS ARE OBTAINED.*
3. *ALL EXISTING SPECIMEN / PROTECTED TREES WITHIN THE PERIMETER SETBACK / LANDSCAPE BUFFER MUST REMAIN.*

CONSTRUCTION SEQUENCE:

PHASE 1

1. ***RECEIVE NPDES COVERAGE FROM DHEC AND OBTAIN ALL NECESSARY PERMITS AND APPROVALS.***
2. ***CONDUCT ON-SITE PRE-CONSTRUCTION MEETING WITH THE CONTRACTOR, OWNER, GEORGETOWN COUNTY, ENGINEER AND CONSTRUCTION MANAGER TO REVIEW THE PROJECT AND EXECUTE THE SWPPP.***
3. ***CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WITHIN AND IMMEDIATELY ADJACENT TO THE PROJECT AREA.***
4. ***INSTALL CONSTRUCTION ENTRANCE OFF OF WAVERLY ROAD.***
5. ***CLEAR AND GRUB ONLY AS NECESSARY FOR INSTALLATION OF PERIMETER EROSION CONTROL DEVICES INCLUDING INSIDE THE BUFFER ZONE.***
6. ***INSTALL PERIMETER EROSION CONTROL DEVICES, INCLUDING ALL TREE PROTECTION, IF APPLICABLE. ALSO INSTALL DOUBLE SILT ALONG THE PERIMETER OF THE BUFFER ZONE AND STABILIZE.***
7. ***CONTRACTOR TO CLEAR AND GRUB THE REMAINING SITE (WHERE REQUIRED) AND LEGALLY DISPOSE OF ALL DEBRIS OFF SITE. DEMO EXISTING PONDS AND EXCAVATE PROPOSED PONDS OUTSIDE BUFFER ZONE.***

WAVERLY PARK

AT
WACCAMAW ELEMENTARY SCHOOL
1364 WAVERLY RD.
PAWLEY'S ISLAND, SC 29585

PROJECT NUMBER:
19101E
ISSUE DATE:
11/13/2020

DRAWN BY: JBE
CHECKED BY: EKS

Permit Drawings

Revision Schedule		
#	Description	Date
2	SCDHEC COMMENTS	2-04-21
4	GT. STORM COMMENTS	4-14-21

SEDIMENT & EROSION CONTROL PLAN - PHASE 1

C-201

SYMBOL	PRACTICE	DESCRIPTION
CL	CONSTRUCTION LIMITS	A DEFINED AREA THAT ALL LAND DISTURBANCE WILL OCCUR DURING CONSTRUCTION.
SF	SILT FENCE	A TEMPORARY STRUCTURE USED TO SLOW THE VELOCITY OF RUN-OFF, CAUSE SEDIMENT DEPOSITION AT THE STRUCTURE, AND FILTER SEDIMENT FROM RUN-OFF.
IP	INLET PROTECTION	A TEMPORARY SEDIMENT BARRIER LAID AROUND A STORM DRAIN INLET TO PREVENT SEDIMENT FROM ENTERING THE DRAINAGE SYSTEM.
DSF	DOUBLE SILT FENCE	A TEMPORARY STRUCTURE USED TO SLOW THE VELOCITY OF RUN-OFF, CAUSE SEDIMENT DEPOSITION AT THE STRUCTURE, AND FILTER SEDIMENT FROM RUN-OFF. USED ALONG EXISTING WETLANDS.
OP	OUTLET PROTECTION	RIP RAP CHANNEL / BANK PLACED BELOW DRAINAGE OUTLETS TO REDUCE THE VELOCITY OF FLOW, EROSION, AND STABILIZE GRADES DOWNSTREAM OF OUTLET STRUCTURES.
CE	CONSTRUCTION ENTRANCE	A STONE STABILIZED PAD LOCATED AT ANY POINT THAT TRAFFIC WILL BE LEAVING A CONSTRUCTION SITE TO A PUBLIC RIGHT-OF-WAY, STREET, ALLEY, SIDEWALK, OR PARKING PLOT WHICH WILL REDUCE OR ELIMINATE THE TRANSPORT OF MUD FROM THE CONSTRUCTION SITE.
CWA	CONCRETE WASHOUT AREA	TEMPORARY FACILITY PROVIDED ONSITE FOR CONCRETE TRUCKS TO WASHOUT PRIOR TO LEAVING CONSTRUCTION SITE. CONTRACTOR MAY RELOCATE ELSEWHERE ONSITE PENDING CONSTRUCTION ACTIVITIES.

SYMBOL	PRACTICE	DESCRIPTION
CL	CONSTRUCTION LIMITS	A DEFINED AREA THAT ALL LAND DISTURBANCE WILL OCCUR DURING CONSTRUCTION.

SEEDING SCHEDULE FOR TEMPORARY VEGETATION — Ds2

SCHEDULE NO.	COMMON NAME OF SEED	RATE PER ACRE (LBS.)	PLANTING DATES
1	ANNUAL SUDAN GRASS (SWEET OR TIFF)	40	APRIL 1 TO AUGUST 15
2	BROWN TOP MILLET	50	APRIL 1 TO AUGUST 15
3	RYE GRAIN	55	APRIL 16 TO MARCH 31

NOTES:
OAT GRAIN IS TO BE ADDED TO ALL SCHEDULES, IF SEEDING DATE IS BETWEEN MARCH 1 AND APRIL 16, AT THE RATE OF 10 POUNDS PER ACRE.
THE CONTRACTOR SHALL OBTAIN A SATISFACTORY STAND OF VEGETATION THAT IS CAPABLE OF EROSION CONTROL. CONTRACTOR SHALL DETERMINE ALL RATES OF APPLICATION NECESSARY TO PRODUCE THE REQUIRED RESULTS. THE TEMPORARY VEGETATION SHALL PROVIDE MINIMUM DENSITY COVERAGE OF 70% OF THE SEEDED AREA.
THE CONTRACTOR MAY INCLUDE QUANTITIES OF RYE GRAIN AND MILLET IN SCHEDULE 1 AND 3 IN ORDER TO ESTABLISH QUICK GROUND COVER FOR EROSION CONTROL PURPOSES.

SEEDING SCHEDULE FOR PERMANENT VEGETATION — Ds3

SCHEDULE NO.	COMMON NAME OF SEED	RATE PER ACRE (LBS.)	PLANTING DATES
1	COMMON BERMUDA (HULLED)	210	MARCH 16 TO AUG. 31
	TALL FESCUE	140	
2	COMMON BERMUDA (UNHULLED)	175	SEPT. 1 TO MARCH 15

NOTES:
GIANT BERMUDA SEED, INCLUDING NK-37, SHALL NOT BE USED.
THE CONTRACTOR SHALL OBTAIN A SATISFACTORY STAND OF PERENNIAL VEGETATION WHOSE ROOT SYSTEM SHALL BE DEVELOPED SUFFICIENTLY TO SURVIVE DRY PERIODS AND WINTER WEATHER, AND BE CAPABLE OF RE-ESTABLISHMENT IN THE SPRING. THE PERENNIAL VEGETATIVE COVER SHALL HAVE A MINIMUM COVERAGE DENSITY OF 70% FOR THE SEEDED AREAS. CONTRACTOR SHALL DETERMINE ALL RATES OF APPLICATION NECESSARY TO PRODUCE THE REQUIRED STAND OF GRASS, AND SHALL FOLLOW THE APPLICATION PROCEDURES AS SPECIFIED HEREIN.

NOTE:
REFER TO SEDIMENT AND EROSION CONTROL NOTES AND DETAILS FOR BMP INSTALLATION AND PROCEDURE.

NOTE:
CLEARING AND FINE GRADING IN THE BUFFER ZONE IS TO BE COMPLETED PRIOR TO ANY WORK OUTSIDE OF THE BUFFER ZONE. THE BUFFER ZONE SHOULD BE SEEDED AND STABALIZED BEFORE ANY WORK OUTSIDE OF THE CONSTRUCTION ZONE IS STARTED.

SCALE IN FEET
0' 25 50 100

NORTH

JURISDICTIONAL WETLAND
4.65 Acre
WETLAND LINES SHOWN SCALED FROM AERIAL PHOTOGRAPHIC EXHIBIT WACCAMAW ELEMENTARY PARK PAWLEYS ISLAND, GEORGETOWN COUNTY, S.C. DATED APRIL, 2018 BY S & ME

UPLAND
0.07 Acre

UPLAND
28.86 Acre

30' CONSTRUCTION BUFFER

FAIRCLOTH SKIMMER

POROUS BAFFLES (SEE DETAIL C-204)

SITE SIGN

RELOCATED PLAYGROUND

WACCAMAW ELEMENTARY
1 STORY BRICK BUILDING
FINISH FLOOR ELEV=15.66'

JUNGLE GYM AREA

DR HORTON, INC
04-0203-109-00-00

LOT 1
DR HORTON, INC.
04-0203-108-01-00

DR HORTON, INC.
04-0203-108-45-00

JOHN W. JACOBS
04-0203-107-04-00

GEORGETOWN COUNTY SCHOOL DISTRICT
04-0203-107-03-00

WAVERLY ROAD
66' R/W

SOMMASTER AVENUE

RUSSELL DRIVE

CONSTRUCTION SEQUENCE:

PHASE 2

1. APPLY ANY FINAL STABILIZATION AROUND POND BANKS.
2. ROUGH GRADE THE ENTIRE SITE.
3. INSTALL STORM DRAINAGE SYSTEM WITH PLACEMENT OF PROTECTION AS EACH INLET IS INSTALLED.
4. PLACE REQUIRED FILL ON SITE, GRADE AND COMPACT PER SPECIFICATIONS.
5. INSTALL THE WATER SYSTEM, SANITARY SEWER SYSTEM AND ALL OTHER UTILITIES AS SHOWN ON THE PLANS.
6. PREPARE BUILDING PADS AND GRADE LOTS.
7. PREPARE ROADWAY SUBGRADE AND INSTALL CONCRETE CURB AND GUTTER.
8. PLACE AND COMPACT G.A.B.C. FOR ROADWAY CONSTRUCTION.
9. INSTALL UNDERGROUND ELECTRIC, TELEPHONE AND CABLE AS REQUIRED.
10. FINISH FINE GRADING THE ROAD RIGHT OF WAYS AND COMMON AREAS.
11. COMPLETE ALL REMAINING SITE IMPROVEMENTS.
12. PLACE ASPHALT, PAVEMENT MARKINGS, AND SIGNAGE.

South Carolina 811 Call 811 Before You Dig

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 29814 4/14/21 ERIC K. SANFORD

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION BOLTON & MENK SOUTHEAST, LLC. No. 6475

DDC ENGINEERS
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WAVERLY PARK

AT
WACCAMAW ELEMENTARY SCHOOL
1364 WAVERLY RD.
PAWLEY'S ISLAND, SC 29585

PROJECT NUMBER: 19101E
ISSUE DATE: 11/13/2020
DRAWN BY: JBE
CHECKED BY: EKS

Permit Drawings

Revision Schedule		
#	Description	Date
2	SCDHEC COMMENTS	2-04-21
4	GT. STORM COMMENTS	4-14-21

SEDIMENT & EROSION CONTROL PLAN - PHASE 2

C-202

SYMBOL	PRACTICE	DESCRIPTION
CL	CONSTRUCTION LIMITS	A DEFINED AREA THAT ALL LAND DISTURBANCE WILL OCCUR DURING CONSTRUCTION.

SEEDING SCHEDULE FOR TEMPORARY VEGETATION — Ds2

SCHEDULE NO.	COMMON NAME OF SEED	RATE PER ACRE (LBS.)	PLANTING DATES
1	ANNUAL SUDAN GRASS (SWEET OR TIFF)	40	APRIL 1 TO AUGUST 15
2	BROWN TOP MILLET	50	APRIL 1 TO AUGUST 15
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THE CONTRACTOR SHALL OBTAIN A SATISFACTORY STAND OF VEGETATION THAT IS CAPABLE OF EROSION CONTROL. CONTRACTOR SHALL DETERMINE ALL RATES OF APPLICATION NECESSARY TO PRODUCE THE REQUIRED RESULTS. THE TEMPORARY VEGETATION SHALL PROVIDE MINIMUM DENSITY COVERAGE OF 70% OF THE SEEDED AREA.

THE CONTRACTOR MAY INCLUDE QUANTITIES OF RYE GRAIN AND MILLET IN SCHEDULE 1 AND 3 IN ORDER TO ESTABLISH QUICK GROUND COVER FOR EROSION CONTROL PURPOSES.

SEEDING SCHEDULE FOR PERMANENT VEGETATION — Ds3

SCHEDULE NO.	COMMON NAME OF SEED	RATE PER ACRE (LBS.)	PLANTING DATES
1	COMMON BERMUDA (HULLED)	210	MARCH 16 TO AUG. 31
	TALL FESCUE	140	
2	COMMON BERMUDA (UNHULLED)	175	SEPT. 1 TO MARCH 15

NOTES:

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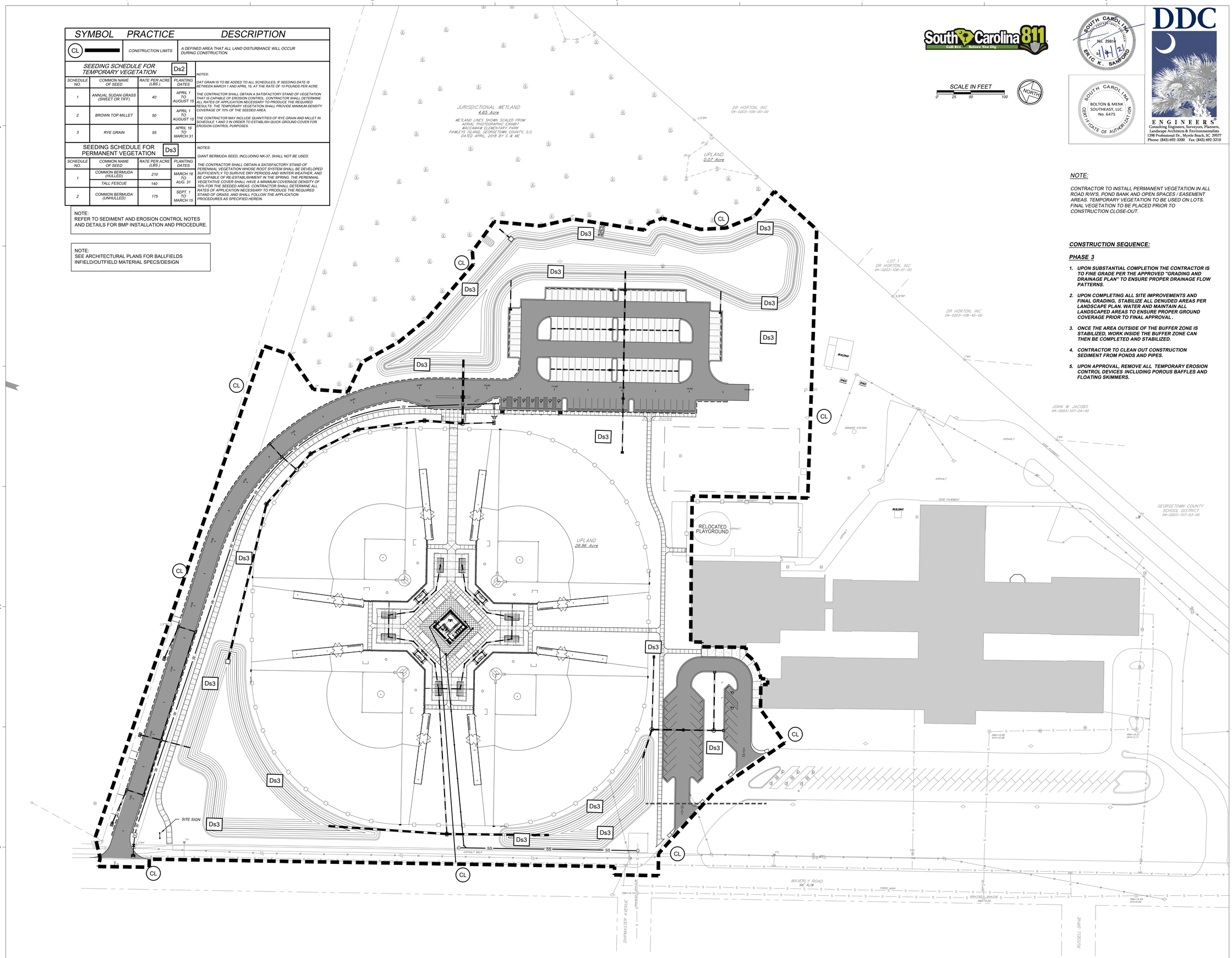
THE CONTRACTOR SHALL OBTAIN A SATISFACTORY STAND OF PERENNIAL VEGETATION WHOSE ROOT SYSTEM SHALL BE DEVELOPED SUFFICIENTLY TO SURVIVE DRY PERIODS AND WINTER WEATHER, AND BE CAPABLE OF RE-ESTABLISHMENT IN THE SPRING. THE PERENNIAL VEGETATIVE COVER SHALL HAVE A MINIMUM COVERAGE DENSITY OF 70% FOR THE SEEDED AREAS. CONTRACTOR SHALL DETERMINE ALL RATES OF APPLICATION NECESSARY TO PRODUCE THE REQUIRED STAND OF GRASS, AND SHALL FOLLOW THE APPLICATION PROCEDURES AS SPECIFIED HEREIN.

NOTE:
REFER TO SEDIMENT AND EROSION CONTROL NOTES AND DETAILS FOR BMP INSTALLATION AND PROCEDURE.

NOTE:
SEE ARCHITECTURAL PLANS FOR BALLFIELDS INFIELD/OUTFIELD MATERIAL SPECS/DESIGN



SCALE IN FEET
0' 25 50 100
NORTH

SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 29814
4/14/21
ERIC K. SANFORD

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
BOLTON & MENK SOUTHEAST, LLC.
No. 6475

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www.sganwdesign.com

NOTE:

CONTRACTOR TO INSTALL PERMANENT VEGETATION IN ALL ROAD R/W'S, POND BANK AND OPEN SPACES / EASEMENT AREAS. TEMPORARY VEGETATION TO BE USED ON LOTS. FINAL VEGETATION TO BE PLACED PRIOR TO CONSTRUCTION CLOSE-OUT.

CONSTRUCTION SEQUENCE:

PHASE 3

1. ***UPON SUBSTANTIAL COMPLETION THE CONTRACTOR IS TO FINE GRADE PER THE APPROVED "GRADING AND DRAINAGE PLAN" TO ENSURE PROPER DRAINAGE FLOW PATTERNS.***
2. ***UPON COMPLETING ALL SITE IMPROVEMENTS AND FINAL GRADING, STABILIZE ALL DENUDED AREAS PER LANDSCAPE PLAN. WATER AND MAINTAIN ALL LANDSCAPED AREAS TO ENSURE PROPER GROUND COVERAGE PRIOR TO FINAL APPROVAL.***
3. ***ONCE THE AREA OUTSIDE OF THE BUFFER ZONE IS STABILIZED, WORK INSIDE THE BUFFER ZONE CAN THEN BE COMPLETED AND STABILIZED.***
4. ***CONTRACTOR TO CLEAN OUT CONSTRUCTION SEDIMENT FROM PONDS AND PIPES.***
5. ***UPON APPROVAL, REMOVE ALL TEMPORARY EROSION CONTROL DEVICES INCLUDING POROUS BAFFLES AND FLOATING SKIMMERS.***

WAVERLY PARK

AT
WACCAMAW ELEMENTARY SCHOOL
1364 WAVERLY RD.
PAWLEY'S ISLAND, SC 29585

PROJECT NUMBER:
19101E
ISSUE DATE:
11/13/2020

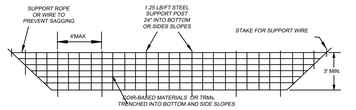
DRAWN BY: JBE
CHECKED BY: EKS

Permit Drawings

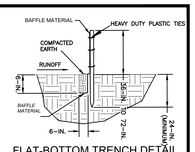
Revision Schedule		
#	Description	Date
2	SCDHEC COMMENTS	2-04-21
4	GT. STORM COMMENTS	4-14-21

SEDIMENT & EROSION CONTROL PLAN - PHASE 3

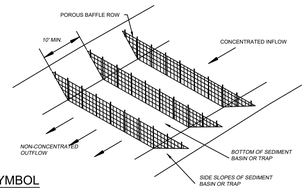
C-203



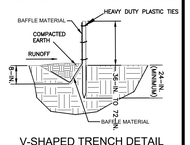
CROSS SECTION VIEW



FLAT-BOTTOM TRENCH DETAIL



PERSPECTIVE VIEW



V-SHAPED TRENCH DETAIL

PLAN SYMBOL

—PB —PB—

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

BAFFLES - POST REQUIREMENTS

1. 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.
   - Weigh 1.25 pounds per foot (± 8%)
2. Posts shall be equipped with projections to aid in fastening of baffle material.
3. 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.
4. Post spacing shall be at a maximum of 4–feet on center.

BAFFLES - MATERIAL REQUIREMENTS

1. 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.
2. 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.
3. Baffle material shall be purchased in continuous rolls and cut to the width of the sediment basin or trap to avoid joints.

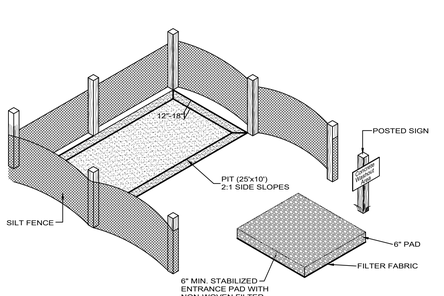
BAFFLES - GENERAL NOTES

1. Attach baffle to the steel posts using heavy–duty plastic ties that are evenly spaced along the above ground portion of each post.
2. 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

1. The key to functional porous baffles is weekly inspection, routine maintenance, and regular sediment removal.
2. Regular inspections of porous baffles shall be conducted once every calendar week and, as recommended, within 24–hours after each rainfall even that produces 1/2–inch or more of precipitation.
3. Attention to sediment accumulations along each row of baffles is extremely important. Accumulated sediment should be continually monitored and removed when necessary.
4. 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.
5. Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
6. 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.
7. Check for tears/rips within the baffles, areas where the baffle has begun to decompose, and for any other circumstance that may render the baffle ineffective. Removed damaged baffles and reinstall new baffles immediately.
8. 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
GENERAL NOTES	FEBRUARY 2014 DATE



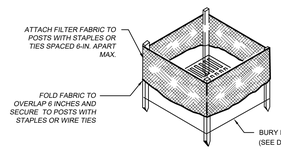
NOTE:

CONTRACTOR TO MAINTAIN THRU-OUT CONSTRUCTION BY REMOVING CONCRETE & LEGALLY DISPOSING OF WHEN PIT IS FULL.

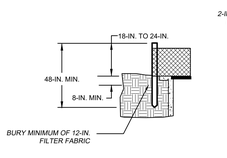
CONTRACTOR TO MAINTAIN PROPER CONSTRUCTION OF WASH-OUT FACILITY FOR THE DURATION OF THE PROJECT.

CONTRACTOR MAY RELOCATE ON SITE IF NEEDED.

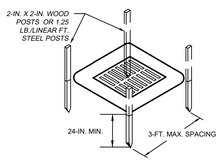
CWA *CONCRETE WASHOUT AREA*
SCALE: N.T.S.



FILTER FABRIC INSTALLATION DETAIL

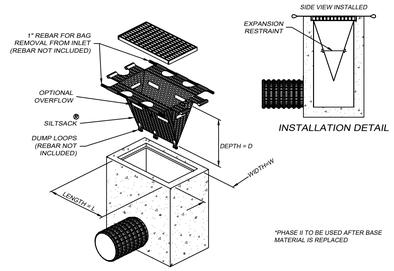


FILTER FABRIC BURIAL DETAIL



POST INSTALLATION DETAIL

IP *TYPE A - FILTER FABIC INLET PROTECTION*
SCALE: N.T.S.



INSTALLATION DETAIL

SILTSACK

**PHASE II TO BE USED AFTER BASE MATERIAL IS REPLACED*

IP *PHASE II INLET PROTECTION*
SCALE: N.T.S.

EROSION CONTROL NOTES

TOTAL DEVELOPMENT AREA : ± 35.2 ACRES

DISTURBED AREA THIS PHASE: ± 16.8 ACRES

IF NECESSARY, SLOPES, WHICH EXCEED EIGHT (8) VERTICAL 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.

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.*

ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED 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.

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 WITH GRASSING IMMEDIATELY AFTER 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.

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.

THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAYS FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.

RESIDENTIAL SUBDIVISION 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.

TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.

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.

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 BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.

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.

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.

MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.

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.

MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPs (SEDIMENT BASIN, FILTER BAG, ETC.).

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.*

AFTER CONSTRUCTION ACTIVITES 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.

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 REASONABLE POSSIBLE.

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.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL SILT BARRIERS AND SEDIMENT CONTROL INSTALLATIONS DURING CONSTRUCTION UNTIL THE COMPLETION OF THE SITE DEVELOPMENT.

EROSION CONTROL DEVICES MUST BE INSTALLED IMMEDIATELY AFTER LAND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE CONTROL DEVICES MAY BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS. IF DRAINAGE PATTERNS DURING CONSTRUCTION VARY FROM THE FINAL DRAINAGE PATTERNS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE SOIL EROSION CONTROL FOR ALL DRAINAGE PATTERNS DURING ALL STAGES OF CONSTRUCTION. ALL INADEQUACIES IN SOIL EROSION CONTROL DURING ANY PHASE OF CONSTRUCTION MUST BE REPORTED IMMEDIATELY TO THE ENGINEER.

THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED. THE CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE PROPER FUNCTIONING OF ALL DEVICES.

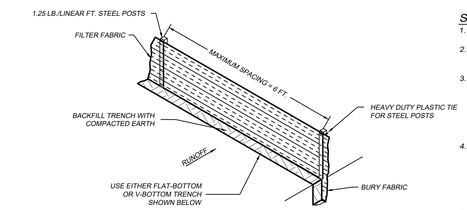
FAILURE TO INSTALL, OPERATE AND MAINTAIN ALL EROSION CONTROL MEASURES, AS SHOWN ON THE APPROVED PLANS OR AS DIRECTED BY THE ENGINEER AND/ OR O.C.R.M. WILL RESULT IN ALL WORK ON THE CONSTRUCTION SITE BEING STOPPED UNTIL PROPER CORRECTIVE MEASURES HAVE BEEN MET, AS REQUIRED AND/ OR DIRECTED.

ALL LAND DISTURBING ACTIVITIES REQUIRES COMPLIANCE UNDER THE NPDES GENERAL PERMIT FOR STORM WATER DISCHARGES FROM THE CONSTRUCTION ACTIVITIES (PERMIT NO. SCR100000). ANY NONCOMPLIANCE WITH THESE REGULATIONS IS A VIOLATION OF THE FEDERAL CLEAN WATER ACT AND MAY REQUIRE ENFORCEMENT ACTION BY HORRY COUNTY OR SCDHEC / OCRM.

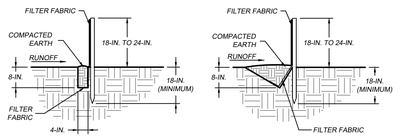
CONTRACTOR SHALL PROVIDE A WATER TIGHT ENCLOSURE FOR STORAGE OF THE OCRM CERTIFIED PLANS AND INSPECTION REPORTS. ENCLOSURE SHALL BE LOCATED IN AN AREA ACCESSIBLE TO REGULATORY PERSONNEL.

ALL STOCKPILE TO BE PROTECTED WITH SILT FENCE.

ALL CONCRETE TO BE WASHED OUT IN AN APPROVED AREA.



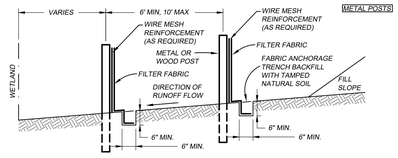
SILT FENCE INSTALLATION



FLAT-BOTTOM TRENCH DETAIL *V-SHAPED TRENCH DETAIL*

SILT FENCE NOTES:

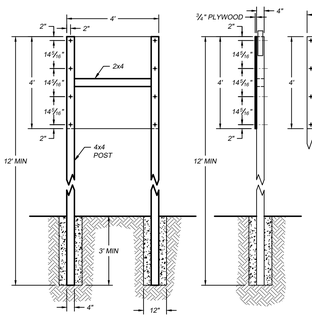
1. *WOVEN WIRE BACKING IS REQUIRED ONLY ALONG CRITICAL LINE AND AT THE TOE OF SLOPES WHOSE HEIGHT IS GREATER THAN 5'*
2. *WOVEN WIRE FENCE SHALL BE REQUIRED AS A BACKING FOR FILTER FABRIC WITH AN ELONGATION AS DETERMINED BY ASTM D 1682, OF 50% OR GREATER. THE WIRE FENCE SHALL BE A MINIMUM OF 32" IN WIDTH AND SHALL HAVE A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.*
3. *WOOD OR STEEL POST MAY BE USED. WOOD POST SHALL BE A MINIMUM OF 6' LONG AND 3" OR MORE IN DIAMETER. STEEL POST SHALL BE A MINIMUM OF 5' LONG WEIGH A MINIMUM OF 1.3 POUNDS/FOOT, AND HAVE PROJECTIONS FOR FASTENING THE WIRE OR THE FABRIC TO THE POST. STEEL POST SHALL ALSO HAVE A METAL PLATE SECURELY ATTACHED SUCH THAT WHEN THE POST IS DRIVEN TO THE PROPER DEPTH, THE PLATE WILL BE BELOW GROUND LEVEL FOR ADDITIONAL STABILITY. POSTS SHALL BE INSTALLED TO A DEPTH DIRECTED BY THE ENGINEER, WITH 1 TO 2 INCHES OF THE POST PROTRUDING ABOVE THE TOP OF THE WIRE FENCE OF FABRIC BEING IDEAL, BUT IN ANY CASE, NO MORE THAN 3" OF THE POST SHALL PROTRUDE ABOVE THE GROUND.*
4. *WHEN WOVEN WIRE IS NOT REQUIRED, POST SPACING WILL BE REDUCED TO A MAXIMUM OF 6 FEET ON CENTER. FABRIC SHALL BE ATTACHED TO WOOD POST USING #9 WIRE STAPLES 1 1/2 INCHES LONG AND TO STEEL POST USING TIE WIRES. NUMBERS AND LOCATION OF FASTENERS WILL BE AS DIRECTED BY THE ENGINEER IN A MANNER TO PREVENT SAGGING OR TEARING OF THE FABRIC BUT IN ALL CASES, AFFIXED TO THE POST POST IN NO LESS THAN FOUR PLACES. WHEN WOVEN WIRE IS USED, THE WIRE WILL BE ATTACHED TO THE POST AS DESCRIBED ABOVE AND THE FILTER FABRIC WILL BE TIED TO THE FENCE AS DIRECTED BY THE ENGINEER IN SUCH A MANNER TO PREVENT SAGGING OR TEARING OF THE FABRIC.*
5. *SILT FENCE IS NOT TO BE INSTALLED OR PLACED WITHIN CONCENTRATED FLOW DITCHES.*



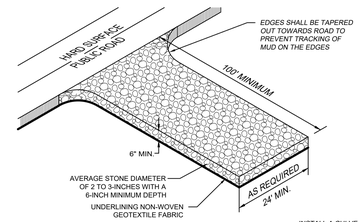
DOUBLE ROW INSTALLATION

SF *SILT FENCE*
SCALE: N.T.S.

DOUBLE ROW SILT FENCE INSTALLATION
SCALE: N.T.S.



SITE SIGN DETAIL
SCALE: N.T.S.



INSTALL A CULVERT PIPE ACROSS THE ENTRANCE WHEN NEEDED TO PROVIDE POSITIVE DRAINAGE.
DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE STONE PAD TO A SEDIMENT TRAP OR BASIN OR OTHER SEDIMENT TRAPPING STRUCTURE.

CE *STABILIZED CONSTRUCTION ENTRANCE*
SCALE: N.T.S.

SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 29814
4/14/21
ERIC K. SANFORD

SOUTH CAROLINA
BOLTON & MENK SOUTHEAST, LLC
No. 6475
CERTIFICATE OF AUTHORIZATION

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WAVERLY PARK

AT
WACCAMAW ELEMENTARY SCHOOL
1364 WAVERLY RD.
PAWLEY'S ISLAND, SC 29585

PROJECT NUMBER: 19101E
ISSUE DATE: 11/13/2020

DRAWN BY: JBE
CHECKED BY: EKS

Permit Drawings

Revision Schedule		
#	Description	Date
2	SCDHEC COMMENTS	2-04-21
4	GT. STORM COMMENTS	4-14-21

SEDIMENT AND EROSION CONTROL DETAILS

C-204

NOTE: SEE SHEET C-303 FOR SPOT SHOTS AND FINE GRADING.

NOTE: CONTRACTOR TO VERIFY LOCATIONS AND ELEVATIONS OF EXISTING STORM DRAINAGE. PLEASE NOTIFY ENGINEER IF CONFLICTS ARISE.

NOTE:
1. PIPE LENGTHS SHOWN ARE FROM CENTER OF STRUCTURE AND INCLUDE END TREATMENT WHERE APPLICABLE.
2. ALL STORM DRAIN PIPE TO BE CLASS 3 REINFORCED CONCRETE UNLESS OTHERWISE NOTED.

SCALE IN FEET
0' 25 50 100

NORTH

SOUTH CAROLINA 811 Call 811 Before You Dig

SOUTH CAROLINA REGISTERED LANDSCAPE ARCHITECT No. 2981 ERIC K. SANFORD 4/14/21

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION BOLTON & MENK SOUTHEAST, LLC. No. 6475

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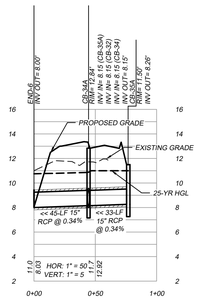
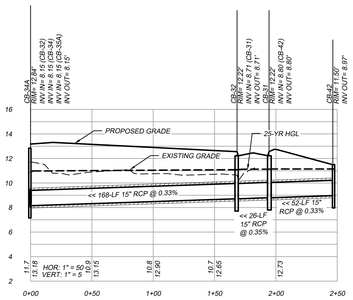
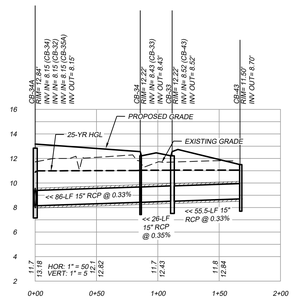
DRAINAGE PLAN

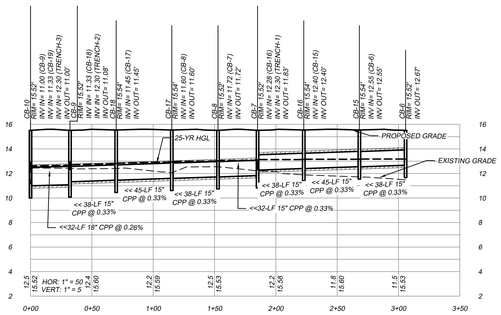
C-301

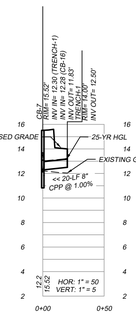
NOTE: CONTRACTOR TO VERIFY LOCATIONS AND ELEVATIONS OF EXISTING STORM DRAINAGE. PLEASE NOTIFY ENGINEER IF CONFLICTS ARISE.

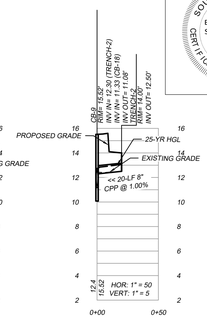


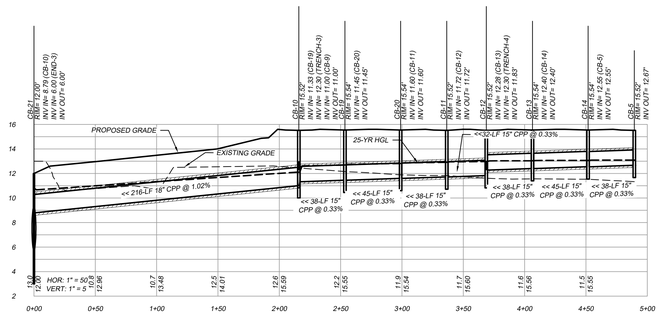


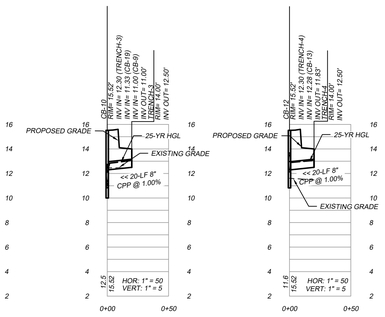


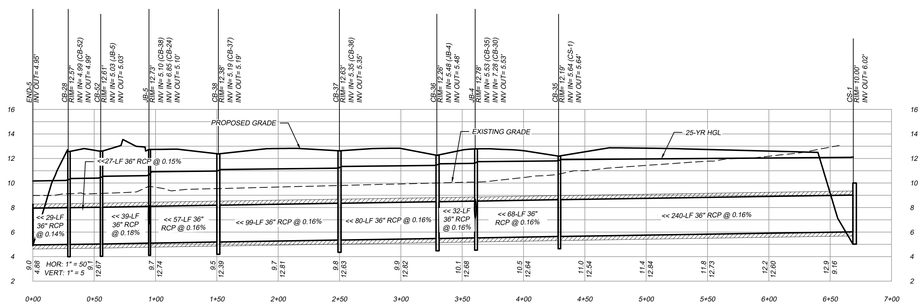


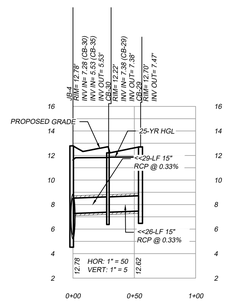


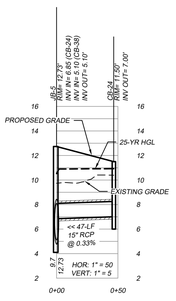


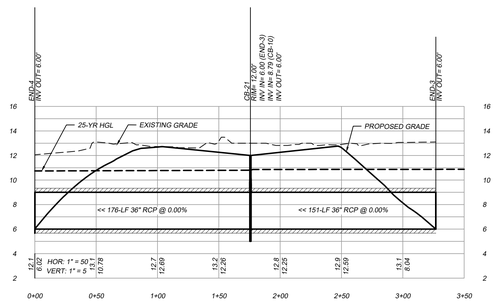


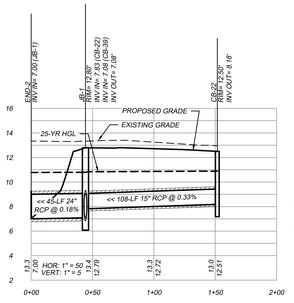


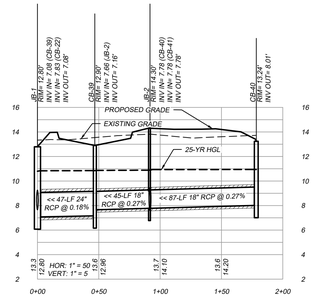


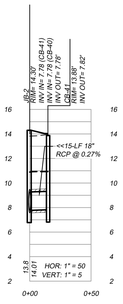


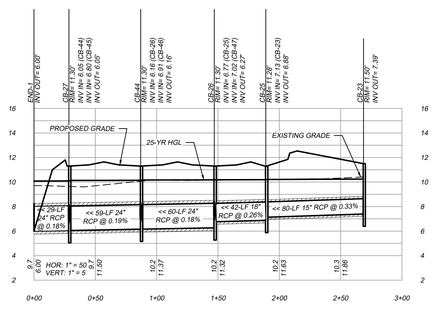


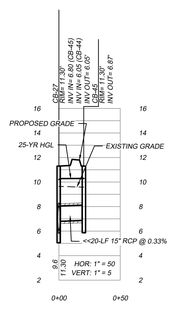


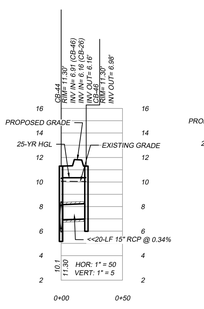


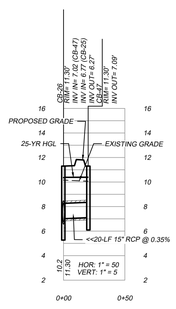


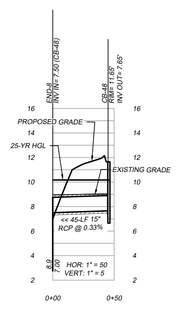


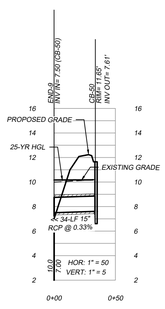


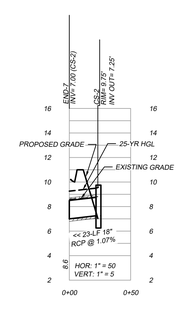












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4/14/21
ERIC K. SANFORD

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WAVERLY PARK

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Permit Drawings

Revision Schedule		
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2	SCDHEC COMMENTS	2-04-21
4	GT. STORM COMMENTS	4-14-21

DRAINAGE PROFILES

C-302

NOTE:
SEE SHEETS C-301 & C-302 FOR DRAINAGE PLAN & PROFILES

NOTE:
SEE SHEET C-304 FOR DESIGN OF ROADWAY

NOTE: CONTRACTOR TO VERIFY LOCATIONS AND ELEVATIONS OF EXISTING STORM DRAINAGE. PLEASE NOTIFY ENGINEER IF CONFLICTS ARISE.

PROPOSED POND #2
MIN. TOP OF BANK=12.5'
TOP OF BANK AREA=34,580 SF
NORMAL POOL=8.0'
25YR HGL=10.27'
100YR HGL=10.91'
AVG. BOTTOM=3.0'
STORAGE= 2.90 Ac-Ft.

PROPOSED POND #1
MIN. TOP OF BANK=12.5'
TOP OF BANK AREA=14,497 SF
NORMAL POOL=8.0'
25YR HGL=10.28'
100YR HGL=10.93'
AVG. BOTTOM=3.0'
STORAGE= 1.06 Ac-Ft.

UPLAND
28.86 Acre

18" TYPICAL RETAINING WALL (SEE ARCHITECTURAL DETAILS)

DEMO EXISTING DRAINAGE

DEMO EXISTING DRAINAGE
UNABLE TO GET INVERTS OR PIPE SIZES THIS DATE

DEMO EXISTING DRAINAGE FROM THIS POINT

DRAINAGE STRUCTURE IN FENCE UNABLE TO LOCATE THIS DATE

RELOCATED PLAYGROUND

SCALE IN FEET
0' 15 30 60

SOUTH CAROLINA
REGISTERED LANDSCAPE ARCHITECT
No. 2981
4/14/21
ERIC K. SANFORD

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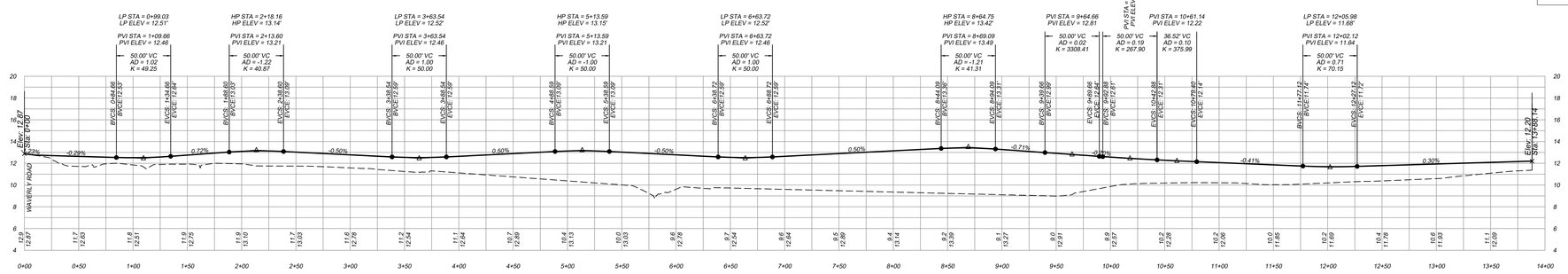
DRAWN BY: JBE
CHECKED BY: EKS

Permit Drawings

Revision Schedule		
#	Description	Date
2	SCDHEC COMMENTS	2-04-21
4	GT. STORM COMMENTS	4-14-21

GRADING PLAN

C-303



SCALE IN FEET

0' 25 50 100

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 29814 4/14/21 ERIC K. SANFORD

SOUTH CAROLINA BOLTON & MENK SOUTHEAST, LLC. No. 6475 CERTIFICATE OF AUTHORIZATION

DDC ENGINEERS
Consulting Engineers, Surveyors, Planners, Landscape Architects & Environmentalists
1298 Professional Dr., Myrtle Beach, SC 29577
Phone: (843) 692-3200 Fax: (843) 692-3210

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8263 Ocean Highway
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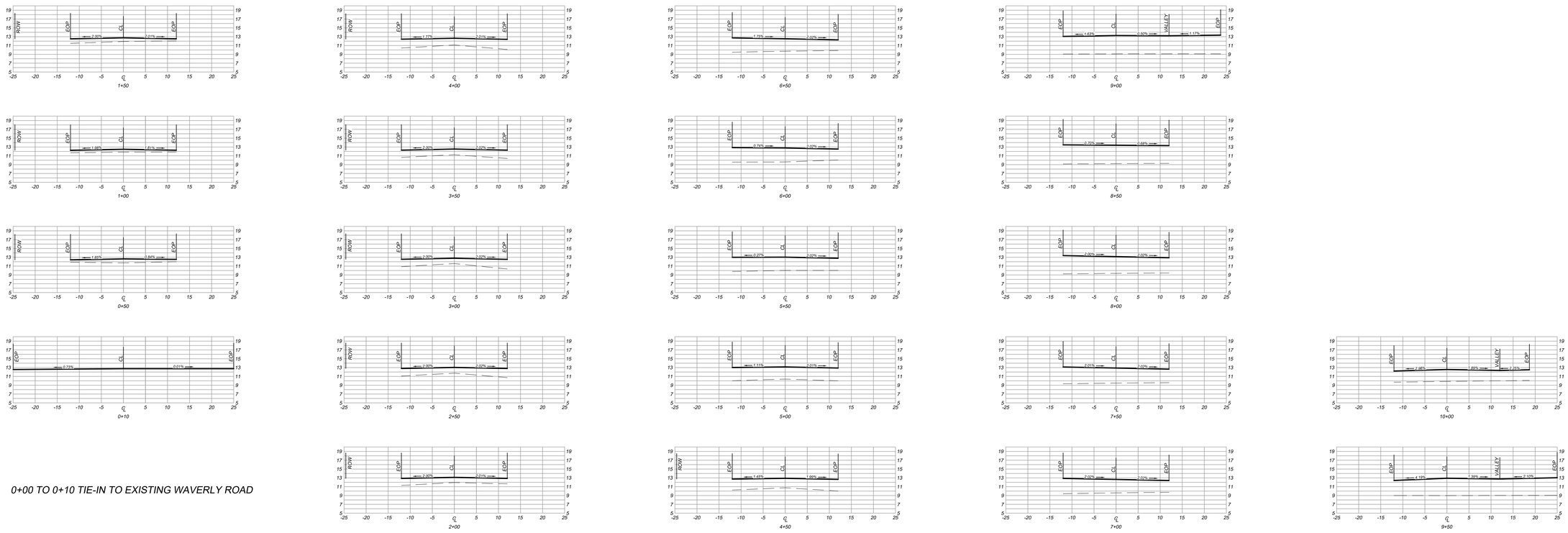
p 843.237.3421
www.sganwdesign.com



0+00 TO 0+10 TIE-IN TO EXISTING WAVERLY ROAD

COCHRAN ROAD CROSS SECTIONS

VERT: 1" = 10'
HORZ: 1" = 10'

WAVERLY PARK

AT
WACCAMAW ELEMENTARY SCHOOL
1364 WAVERLY RD.
PAWLEY'S ISLAND, SC 29585

PROJECT NUMBER: 19101E
ISSUE DATE: 11/13/2020

DRAWN BY: JBE
CHECKED BY: EKS

Permit Drawings

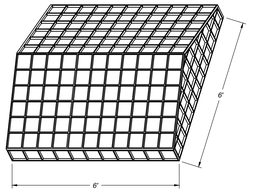
Revision Schedule		
#	Description	Date
2	SCDHEC COMMENTS	2-04-21
4	GT. STORM COMMENTS	4-14-21

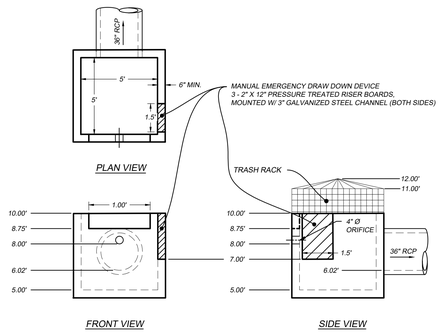
ROAD PROFILE & CROSS SECTIONS

C-304

NOTE:

1. CONTRACTOR TO PROVIDE A PEAKED ROOF STRUCTURE TRASH RACK BY PLASTIC SOLUTIONS INC. (877-8777527) OR EQUIVALENT. 6" x 6" MAXIMUM GRATE OPENING
2. PROVIDE STEPS (PER SCDOT DETAIL SECTION 719-500) IN ALL DRAINAGE STRUCTURES DEEPER THAN 54". LOCATE STEPS WITHIN REASONABLE PROXIMITY TO ACCESS POINT (MANHOLE OR GRATE OPENING) WITHOUT INTERFERING WITH PIPE ORIENTATIONS.



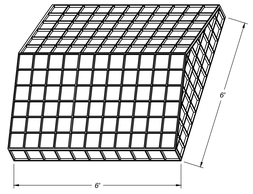


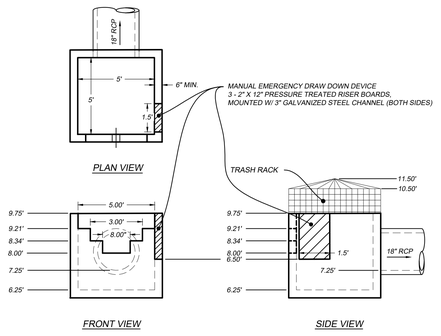
POND CONTROL STRUCTURE (POND 2)

SCALE: N.T.S.

NOTE:

1. CONTRACTOR TO PROVIDE A PEAKED ROOF STRUCTURE TRASH RACK BY PLASTIC SOLUTIONS INC. (877-8777527) OR EQUIVALENT. 6" x 6" MAXIMUM GRATE OPENING
2. PROVIDE STEPS (PER SCDOT DETAIL SECTION 719-500) IN ALL DRAINAGE STRUCTURES DEEPER THAN 54". LOCATE STEPS WITHIN REASONABLE PROXIMITY TO ACCESS POINT (MANHOLE OR GRATE OPENING) WITHOUT INTERFERING WITH PIPE ORIENTATIONS.





POND CONTROL STRUCTURE (POND 3)

SCALE: N.T.S.

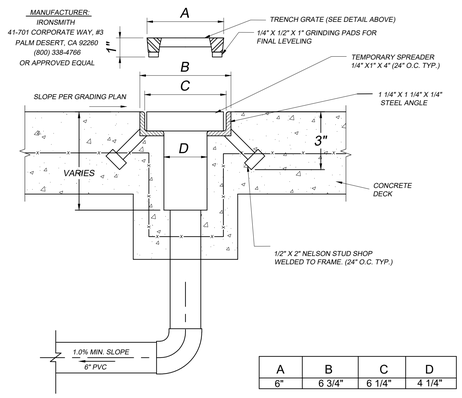
MANUFACTURER:
IRONSMITH
41-701 CORPORATE WAY, #3
PALM DESERT, CA 92260
(800) 338-4766
OR APPROVED EQUAL

1/2" x 1" x 1/4" THICK GRINDING PADS FOR LEVELING - TYP. 4 OR MORE PLACES

MODEL	DIMENSIONS	
	GRATE WIDTH	TRENCH WIDTH
M9059-6	6"	4-1/4"

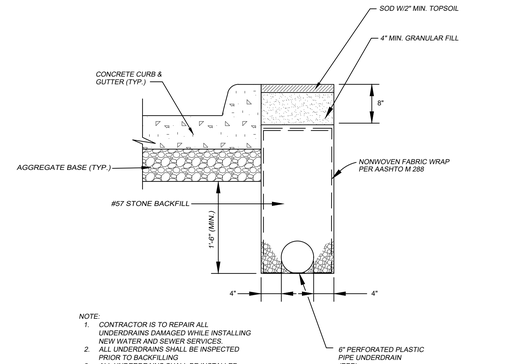
DECORATIVE TRENCH DRAIN GRATE

N.T.S.



A	B	C	D
6"	6 3/4"	6 1/4"	4 1/4"

TRENCH DRAIN SECTION

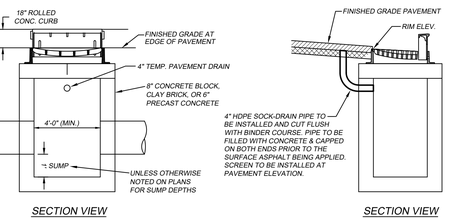


NOTE:

1. CONTRACTOR IS TO REPAIR ALL UNDERDRAINS DAMAGED WHILE INSTALLING NEW WATER AND SEWER SERVICES.
2. ALL UNDERDRAINS SHALL BE INSPECTED PRIOR TO BACKFILLING
3. ALL UNDERDRAINS SHALL BE INSTALLED ABOVE THE POND NORMAL POOL ELEVATION.

TYPICAL ROADWAY UNDERDRAINS

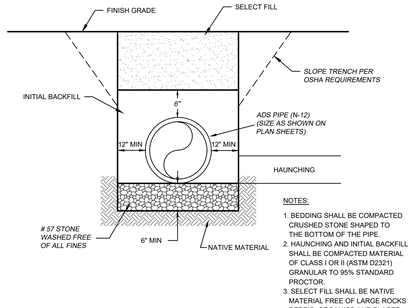
SCALE: N.T.S.



FOR 12"-24" I.D. PIPE USE 4'-0" x 4'-0" BOX, FOR PIPES OVER 24" I.D. MAKE WIDTH OF CB= O.D. PIPE +6" EACH SIDE.

CURB INLET DETAIL

N.T.S.

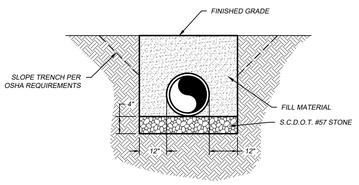


NOTES:

1. BEDDING SHALL BE COMPACTED CRUSHED STONE SHAPED TO THE BOTTOM OF THE PIPE.
2. HAUNCHING AND INITIAL BACKFILL SHALL BE COMPACTED MATERIAL OF CLASS I OR II (ASTM D2321) GRANULAR TO 95% STANDARD PROCTOR.
3. SELECT FILL SHALL BE NATIVE MATERIAL FREE OF LARGE ROCKS DEBRIS, ORGANICS AND PLACED IN 8" MAX LOOSE LIFTS AND COMPACTED TO 95% STANDARD PROCTOR.

CORRUGATED POLYETHYLENE PIPE (CPP) BEDDING DETAIL

SCALE: N.T.S.



NOTES:

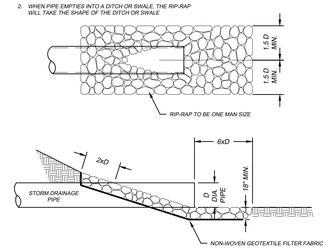
1. BEDDING SHALL BE REQUIRED IF TRENCH BOTTOM IS BELOW THE GROUND WATER TABLE.
2. FILL SHALL BE NATIVE MATERIAL FREE OF LARGE ROCKS, DEBRIS OR ORGANICS PLACED IN 4" LIFTS AND COMPACTED TO 95% OF THE SOIL'S MODIFIED PROCTOR. (AS PER SCDOT SPECIFICATIONS)
3. FILL AROUND PIPE IN ROADWAYS SHALL BE IMPORTED SELECT FILL COMPACTED TO 100% OF THE SOILS MODIFIED PROCTOR.

REINFORCED CONCRETE PIPE BEDDING

SCALE: N.T.S.

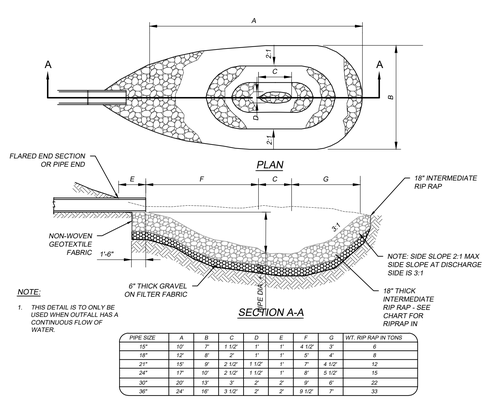
NOTES:

1. FILTER FABRIC TO BE INSTALLED BENEATH STONE RIP-RAP.
2. WHEN PIPE EMPTIES INTO A DITCH OR SWALE, THE RIP-RAP WILL TAKE THE SHAPE OF THE DITCH OR SWALE



RIP-RAP PIPE OUTLET

SCALE: N.T.S.



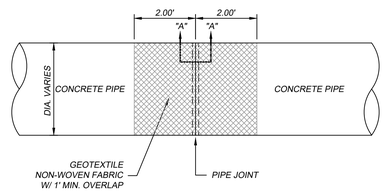
NOTE:

1. THIS DETAIL IS TO ONLY BE USED WHEN OUTFALL HAS A CONTINUOUS FLOW OF WATER.

PIPE SIZE	A	B	C	D	E	F	G	WT. RIP RAP IN TONS
15"	10'	7'	1 1/2"	1'	1'	4 1/2"	3'	6
18"	12'	8'	2"	1'	1'	5'	4'	8
21"	15'	9'	2 1/2"	1 1/2"	1'	7'	4 1/2"	12
24"	17'	10'	2 1/2"	1 1/2"	1'	8'	5 1/2"	15
30"	20'	13'	3"	2"	2'	9'	6"	22
36"	24'	16'	3 1/2"	2"	2'	9 1/2"	7'	33

RIPRAP PLUNGE POOL

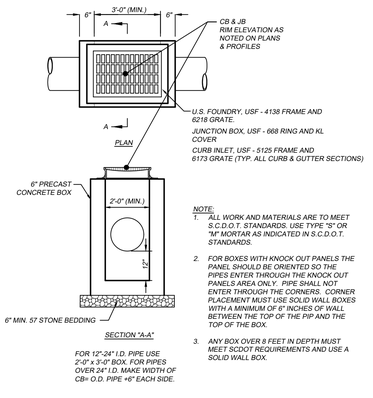
SCALE: N.T.S.



SECTION "A"-"A"

PIPE JOINT DETAIL

SCALE: N.T.S.



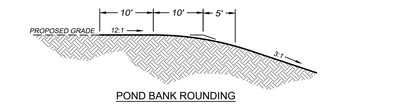
NOTE:

1. ALL WORK AND MATERIALS ARE TO MEET S.C.D.O.T. STANDARDS. USE TYPE "S" OR "M" MORTAR AS INDICATED IN S.C.D.O.T. STANDARDS.
2. FOR BOXES WITH KNOCK OUT PANELS THE PANEL SHOULD BE ORIENTED SO THE PIPES ENTER THROUGH THE KNOCK OUT PANELS AREA ONLY. PIPE SHALL NOT ENTER THROUGH THE CORNERS. CORNER PLACEMENT MUST USE SOLID WALL BOXES WITH A MINIMUM OF 6" INCHES OF WALL BETWEEN THE TOP OF THE PIP AND THE TOP OF THE BOX.
3. ANY BOX OVER 8 FEET IN DEPTH MUST MEET SCDOT REQUIREMENTS AND USE A SOLID WALL BOX.

FOR 12"-24" I.D. PIPE USE 2'-0" x 3'-0" BOX, FOR PIPES OVER 24" I.D. MAKE WIDTH OF CB= O.D. PIPE +6" EACH SIDE.

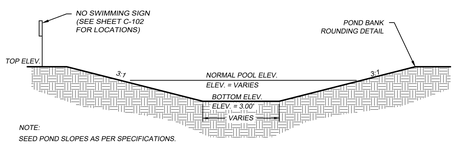
TYPICAL CATCH BASIN / JUNCTION BOX

SCALE: N.T.S.



POND BANK ROUNDING

POND ID	NORMAL POOL	TOP ELEV.	BOTTOM ELEV.	25YR HGL	100YR HGL
POND 1	8.00'	12.50'	3.00'	10.28'	10.93'
POND 2	8.00'	12.50'	3.00'	10.27'	10.91'
POND 3	8.00'	11.50'	3.00'	9.78'	10.33'



NOTE:
SEED POND SLOPES AS PER SPECIFICATIONS.

POND CROSS SECTION

SCALE: N.T.S.

SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 29814
4/4/21
ERIC K. SANFORD

SOUTH CAROLINA
BOLTON & MENK SOUTHEAST, LLC
No. 6475
CERTIFICATE OF AUTHORIZATION

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WAVERLY PARK

AT
WACCAMAW ELEMENTARY SCHOOL
1364 WAVERLY RD.
PAWLEY'S ISLAND, SC 29585

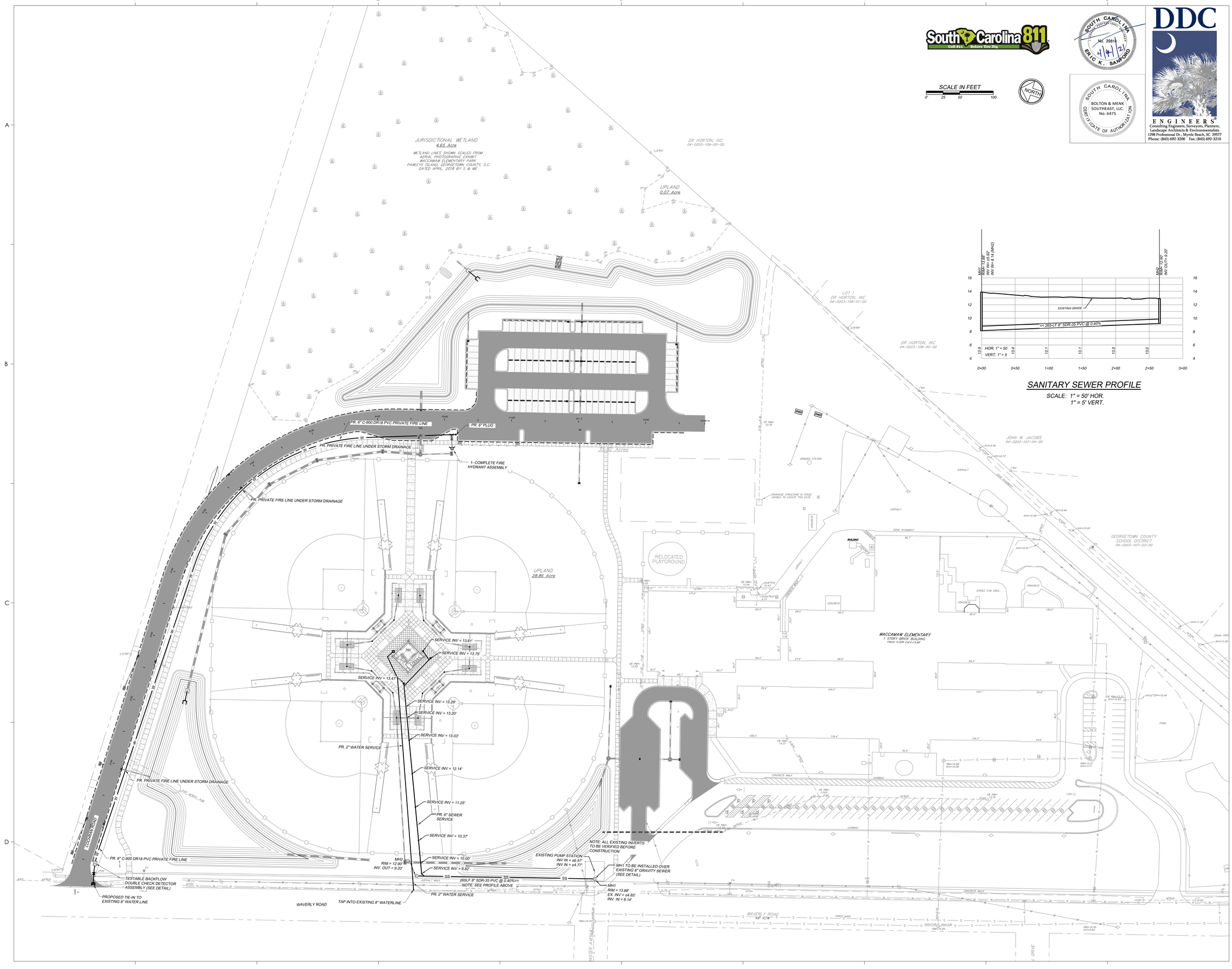
PROJECT NUMBER: 19101E
ISSUE DATE: 11/13/2020
DRAWN BY: JBE
CHECKED BY: EKS

Permit Drawings

Revision Schedule		
#	Description	Date
2	SCDHEC COMMENTS	2-04-21
4	GT. STORM COMMENTS	4-14-21

GRADING AND DRAINAGE DETAILS

C-305



SANITARY SEWER PROFILE

SCALE: 1" = 50' HOR.
1" = 5' VERT.

South Carolina 811 Call 811 Before You Dig

SOUTH CAROLINA — No. 29814 — 4/14/21 — ERIC K. SANFORD

SOUTH CAROLINA — BOLTON & MENK SOUTHEAST, LLC. No. 6475 — CERTIFICATE OF AUTHORIZATION

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WAVERLY PARK

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1364 WAVERLY RD.
PAWLEY'S ISLAND, SC 29585

PROJECT NUMBER:
19101E
ISSUE DATE:
11/13/2020

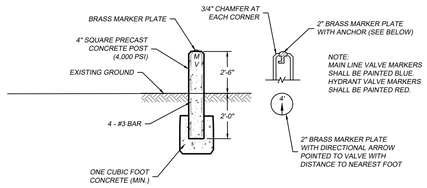
DRAWN BY: JBE
CHECKED BY: EKS

Permit Drawings

Revision Schedule		
#	Description	Date
2	SCDHEC COMMENTS	2-04-21
3	GCWSD COMMENTS	3-03-21
4	GT. STORM COMMENTS	4-14-21

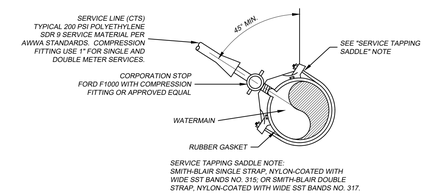
WATER DISTRIBUTION & SANITARY SEWER PLAN

C-401



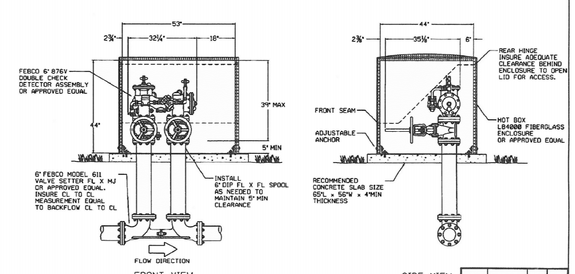
TYPICAL CONCRETE VALVE MARKER

SCALE: N.T.S.

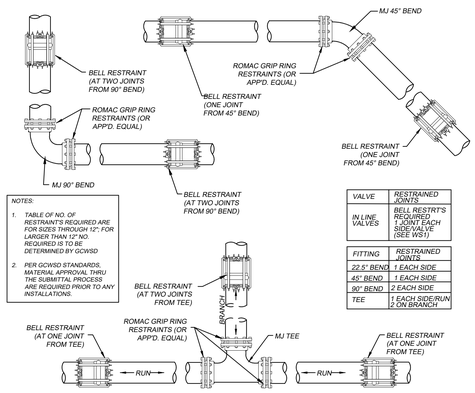


TYPICAL SERVICE TAP

SCALE: N.T.S.



GEORGETOWN COUNTY WATER & SEWER DISTRICT	
TYPICAL DOUBLE CHECK DETECTOR ASSEMBLY ABOVE GROUND MOUNT WBOX	NO.
SCALE: N.T.S.	REVISED
DATE: 3-18-12	
DRAWN: T.HK	

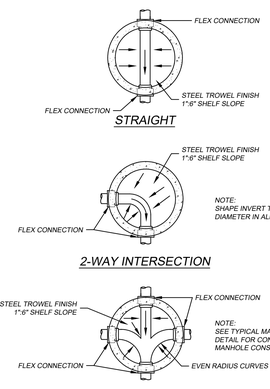


VALVE	RESTRAINED JOINTS
IN LINE VALVES	BELL RESTR'TS REQUIRED 1 JOINT EACH SIDE/VALVE (SEE WS1)

FITTING	RESTRAINED JOINTS
22.5° BEND	1 EACH SIDE
45° BEND	1 EACH SIDE
90° BEND	2 EACH SIDE
TEE	1 EACH SIDE/RUN 2 ON BRANCH

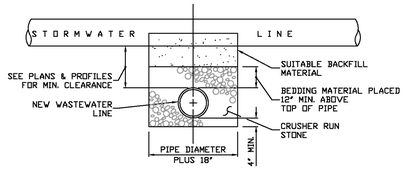
TYPICAL FITTING AND JOINT RESTRAINT (INCLUDES VALVES)

SCALE: N.T.S.



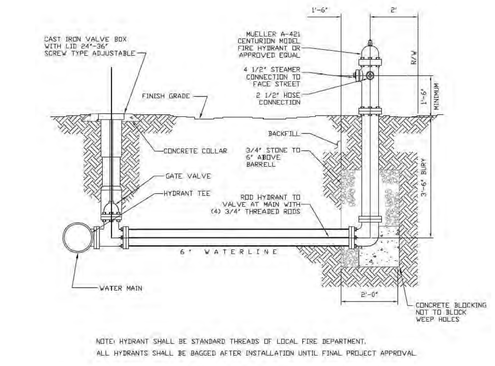
TYPICAL MANHOLE INVERTS

SCALE: N.T.S.



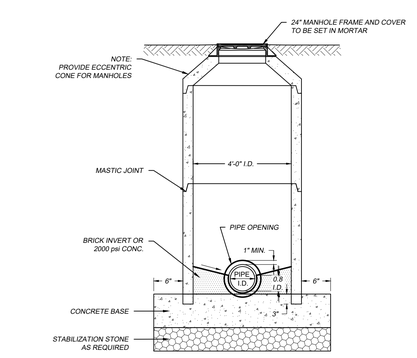
NOTE: IF LESS THAN 18" CLEARANCE, CENTER 18 L.F. OF D.I.P. AT CROSSING FOR BOTH UTILITY LINES

SEWER LINE DRAINAGE CROSSINGS



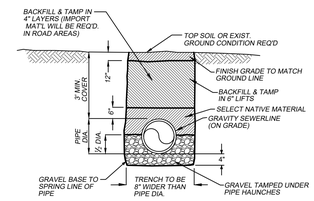
NOTE: HYDRANT SHALL BE STANDARD THREADS OF LOCAL FIRE DEPARTMENT.
ALL HYDRANTS SHALL BE BAGGED AFTER INSTALLATION UNTIL FINAL PROJECT APPROVAL.

TYPICAL FIRE HYDRANT



MANHOLE OVER EXISTING LINE

SCALE: N.T.S.



NOTES FOR ALL TRENCH DETAILS:

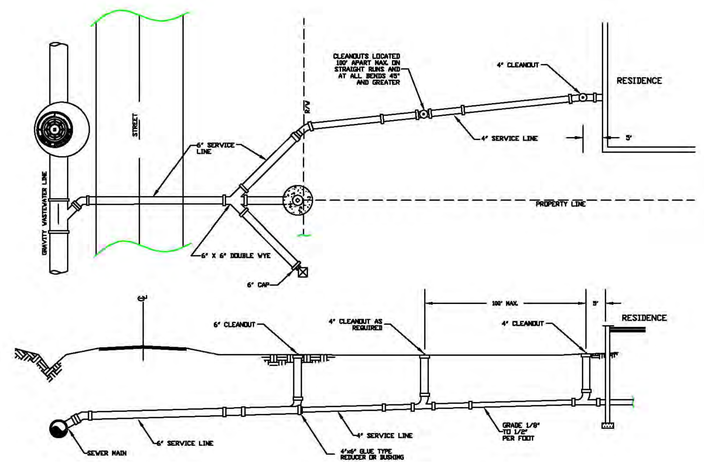
1. TRENCH SHALL BE BACKFILLED AND THOROUGHLY TAMPED WITH SUITABLE MATERIAL TO LEVEL OF STONE. STONE & PAVT TO BE PLACED BY CONTR. WITH LEAST INTERFERENCE WITH TRAFFIC.
2. ALL CONSTRUCTION TO BE INSPECTED AND APPROVED BY LOCAL COUNTY OR STATE ROAD DEPT.
3. CONTRACTOR IS RESPONSIBLE FOR NOTIFICATION AND OBTAINING INSPECTION.
4. GRAVEL BASE SHALL BE 4" MIN., AND EXTEND UP TO SPRING LINE OF PIPE. GRAVEL SHALL NOT EXCEED ½ DIA.

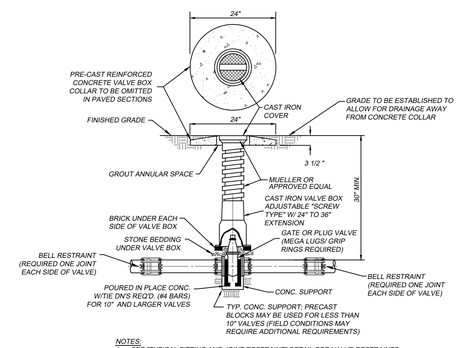
TYPICAL TRENCH SECTION IN NATIVE GROUND CONDITION FOR GRAVITY SEWER LINE

SCALE: N.T.S.

STANDARD GRAVITY SEWER SERVICE LINE

SCALE: N.T.S.

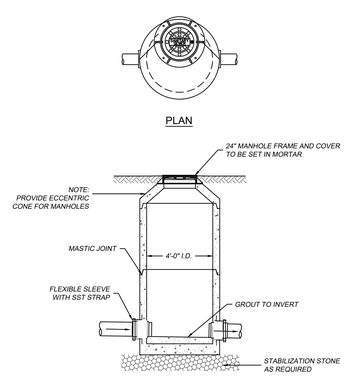




NOTES:
1. SEE "TYPICAL FITTING AND JOINT RESTRAINT" DETAIL FOR VALVE RESTRAINTS
2. TOP OF VALVE BOX AND COLLAR SHALL BE PAINTED GREEN FOR SEWER FM AND BLUE FOR WATER.
3. EXTENSION STEM WILL BE REQUIRED TO BE WITHIN 2 FT. OF THE SURFACE IF OPERATING NUT IS OVER 5 FT. BELOW GRADE. EXTENSIONS SHALL BE PERMANENTLY ATTACHED TO VALVE NUT AND SHALL BE PROVIDED WITH HORIZONTAL SPACERS FOR BERTICLE ALIGNMENT WITHIN THE VALVE BOX.
4. PER GSWSA STANDARDS, MATERIAL APPROVAL THRU THE SUBMITTAL PROCESS ARE REQUIRED PRIOR TO ANY INSTALLATIONS.

TYPICAL VALVE AND VALVE BOX

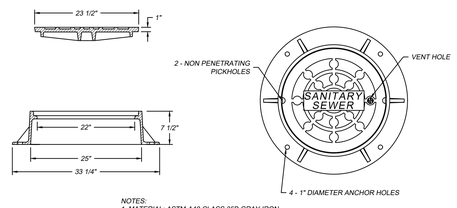
SCALE: N.T.S.



PROFILE

TYPICAL SECTION OF PRECAST SANITARY SEWER MANHOLE

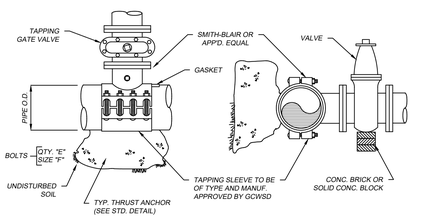
SCALE: N.T.S.



NOTES:
1. MATERIAL: ASTM-A48 CLASS 35B GRAY IRON.
2. RING WT: 160 LBS. APPROVED
3. COVER WT: 125 LBS. APPROVED
4. POLYETHYLENE (H.D.P.E.) ADJUSTING RINGS AS MANUFACTURED BY LADTECH, INC. MAY BE USED FOR LEVELING AND FINAL GRADE OF MANHOLE FRAME AND COVER.
5. USE U.S. FOUNDRY1668-KL-1 "VENT" FRAME AND COVER OR APPROVED EQUAL.

TYPICAL MANHOLE FRAME AND COVER

SCALE: N.T.S.



TYPICAL TAPPING SLEEVE (FOR WATERLINE OR SEWER FORCEMAIN)

SCALE: N.T.S.

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 29814 ERIC K. SANFORD 4/14/21

SOUTH CAROLINA BOLTON & MENK SOUTHEAST, LLC No. 6475 CERTIFICATE OF AUTHORIZATION

DDC ENGINEERS
Consulting Engineers, Surveyors, Planners, Landscape Architects & Environmentalists
1298 Professional Dr., Myrtle Beach, SC 29577
Phone: (843) 692-3200 Fax: (843) 692-3210

SGA NarmourWright DESIGN
8263 Ocean Highway
Pawleys Island, SC 29585
p 843.237.3421
www.sganwdesign.com

WAVERLY PARK

AT
WACCAMAW ELEMENTARY SCHOOL
1364 WAVERLY RD.
PAWLEY'S ISLAND, SC 29585

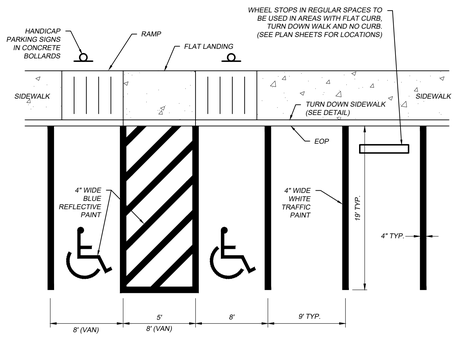
PROJECT NUMBER: 19101E
ISSUE DATE: 11/13/2020
DRAWN BY: JBE
CHECKED BY: EKS

Permit Drawings

Revision Schedule		
#	Description	Date
2	SCDHEC COMMENTS	2-04-21
4	GT. STORM COMMENTS	4-14-21

WATER DISTRIBUTION AND SEWER DETAILS

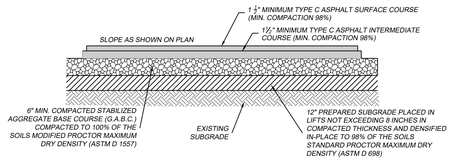
C-402



PAVEMENT MARKING DETAILS

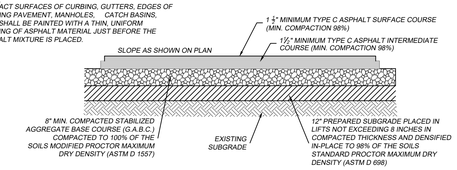
SCALE: N.T.S.

GEOTECHNICAL INVESTIGATION AND PAVEMENT DESIGN PROVIDED BY S&ME, INC. REPORT DATED MAY 18, 2020.



STANDARD PAVEMENT

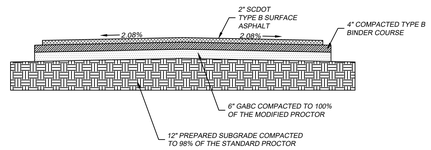
NOTE:
CONTACT SURFACES OF CURBING, GUTTERS, EDGES OF EXISTING PAVEMENT, MANHOLES, CATCH BASINS, ETC., SHALL BE PAINTED WITH A THIN, UNIFORM COATING OF ASPHALT MATERIAL JUST BEFORE THE ASPHALT MIXTURE IS PLACED.



HEAVY DUTY PAVEMENT

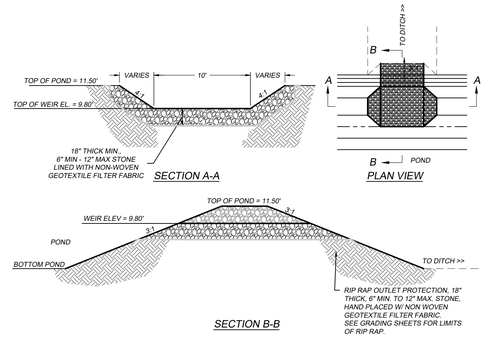
PAVEMENT SECTIONS

SCALE: N.T.S.



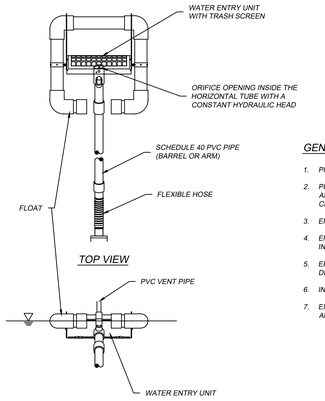
TYPICAL ROADWAY CROSS SECTION WITHIN SCDOT R/W

SCALE: N.T.S.



OVERFLOW RIP RAP WEIR

SCALE: N.T.S.



CALCULATE SKIMMER SIZE

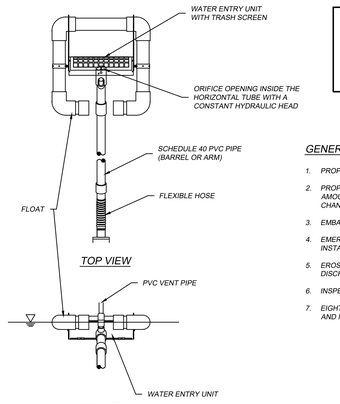
BASIN VOLUME IN CUBIC FEET	15,171	Cu. Ft	SKIMMER SIZE	2.5	INCH
DAYS TO DRAIN*	3	DAYS	ORIFICE RADIUS	1.1	INCH[ES]
			ORIFICE DIAMETER	2.3	INCH[ES]

GENERAL NOTES:

1. PROPER DESIGN MUST BE COMPLETED TO MINIMIZE PIPING AROUND DISCHARGE PIPE.
2. PROPER ORIFICE OPENING MUST BE SELECTED TO ENSURE POND DRAINS IN CORRECT AMOUNT OF TIME. MODIFICATIONS MAY BE REQUIRED IF FIELD CONDITIONS WARRANT A CHANGE.
3. EMBANKMENT MUST BE COMPACTED TO DESIGN SPECIFICATIONS.
4. EMERGENCY SPILLWAY MUST BE CORRECTLY SIZED AND EROSION PROTECTION INSTALLED.
5. EROSION PROTECTION MUST BE INSTALLED ALONG THE EMBANKMENT AND AT THE DISCHARGE END OF THE PIPE.
6. INSPECT SYSTEM REGULARLY TO ENSURE IT IS FUNCTIONING IN A CORRECT MANNER.
7. EIGHT SIZES OF SKIMMERS ARE AVAILABLE, REFER TO THE FLOW SHEET, CUT SHEET, AND INSTRUCTIONS ON WEB SITE FOR EACH SIZE.

FAIRCLOTH SKIMMER DISCHARGE SYSTEM WITH OUTLET STRUCTURE POND 3

SCALE: N.T.S.



CALCULATE SKIMMER SIZE

BASIN VOLUME IN CUBIC FEET	22,634	Cu. Ft	SKIMMER SIZE	3.0	INCH
DAYS TO DRAIN*	3	DAYS	ORIFICE RADIUS	1.3	INCH[ES]
			ORIFICE DIAMETER	2.6	INCH[ES]

GENERAL NOTES:

1. PROPER DESIGN MUST BE COMPLETED TO MINIMIZE PIPING AROUND DISCHARGE PIPE.
2. PROPER ORIFICE OPENING MUST BE SELECTED TO ENSURE POND DRAINS IN CORRECT AMOUNT OF TIME. MODIFICATIONS MAY BE REQUIRED IF FIELD CONDITIONS WARRANT A CHANGE.
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6. INSPECT SYSTEM REGULARLY TO ENSURE IT IS FUNCTIONING IN A CORRECT MANNER.
7. EIGHT SIZES OF SKIMMERS ARE AVAILABLE, REFER TO THE FLOW SHEET, CUT SHEET, AND INSTRUCTIONS ON WEB SITE FOR EACH SIZE.

FAIRCLOTH SKIMMER DISCHARGE SYSTEM WITH OUTLET STRUCTURE POND 2

SCALE: N.T.S.

NOTE:

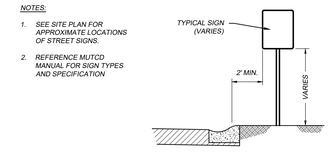
1. SIGN DIMENSION : 12"x18"
2. SIGNS SHALL BE LOCATED IN THE POND, NEAR THE LOCATIONS SHOWN, NO LESS THAN 2 PER POND AND AT A HEIGHT VISIBLE FROM THE SHORELINE
3. DISTANCE BETWEEN SIGNS SHALL BE A MAXIMUM OF 250' APART, MEASURED IN CIRCUMFERENCE AROUND THE POND, AND IN THE POND ITSELF.

NO SWIMMING SIGN DETAIL

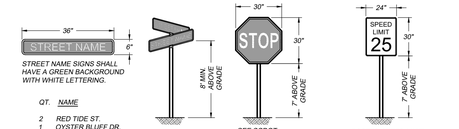
SCALE: N.T.S.

NOTES:

1. SEE SITE PLAN FOR APPROXIMATE LOCATIONS OF STREET SIGNS.
2. REFERENCE MUTCD MANUAL FOR SIGN TYPES AND SPECIFICATION



ROADSIDE SIGN LOCATION WITH CURBING



STREET NAME SIGNS SHALL HAVE A GREEN BACKGROUND WITH WHITE LETTERING.

QT.	NAME
2	RED TIDE ST.
1	OYSTER BLUFF DR.
1	BLACK PEARL WAY
2	SAGE DR.

SEE SCDOT STANDARD DRAWING 651-115-01

POSTED SPEED LIMIT
RED TIDE ST. - 25 MPH
OYSTER BLUFF DR. - 25 MPH
BLACK PEARL WAY - 25 MPH
SAGE DR. - 25 MPH

TYPICAL STREET SIGN LOCATIONS

SCALE: N.T.S.

SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 29814
4/14/21
ERIC K. SANFORD

SOUTH CAROLINA
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No. 6475
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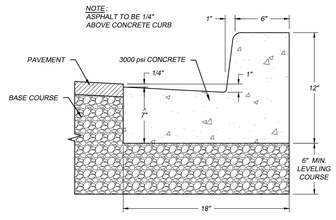
Permit Drawings

Revision Schedule		
#	Description	Date
1	SCDOT COMMENTS	1-20-21
2	SCDHEC COMMENTS	2-04-21
4	GT. STORM COMMENTS	4-14-21

SITE DETAILS

C-501

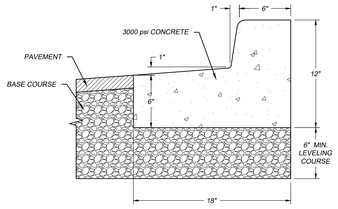


NOTE:

1. CURB MUST MEET SCDOT SPECIFICATIONS FOR STRENGTH 3000 PSI @ 28 DAYS.
2. PROOF ROLL SUBGRADE AND BASE PRIOR TO LAYING CURB AND GUTTER.
3. THE CONTRACTOR SHALL PROVIDE THE ENGINEERING DEPARTMENT WITH CYLINDER TESTING DATA (SC-T-41) FROM AN INDEPENDENT TESTING LAB (AASHTO CERTIFIED) AND INSPECTOR CERTIFIED BY THE SCDOT TO INSPECT AND TEST CONCRETE INDICATING COMPRESSIVE STRENGTH OF CONCRETE TESTED. A MINIMUM OF THREE TEST CYLINDERS EQUALLY SPACED SHALL BE TAKEN FOR THE FIRST 1000 LINEAR FEET. AN ADDITIONAL CYLINDER SHALL BE TAKEN FOR EACH ADDITIONAL FIVE HUNDRED LINEAR FEET OF CURBING. ALL TESTS SHALL BE IDENTIFIED WITH STATION IDENTIFICATION NUMBERS. NO TEST CYLINDER SHALL ATTAIN LESS THAN 2500 PSI WHILE THE AVERAGE OF ALL TEST CYLINDERS SHALL BE AT LEAST 3000 PSI. WHERE ANY SAMPLE IS LESS THAN 2500 PSI OR THE AVERAGE IS LESS THAN 3000 PSI THAN THE MATERIAL ASSOCIATED WITH THE FAILED SAMPLE STATION NUMBER(S) SHALL BE REMOVED AND REINSTALLED.

18" STANDARD CONCRETE CURB & GUTTER

SCALE: N.T.S.



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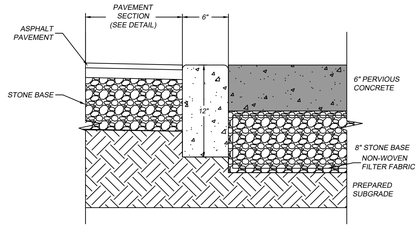
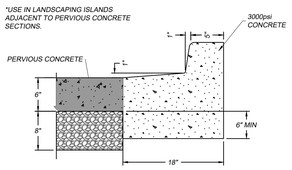
18" STANDARD CONCRETE EXPULSION CURB & GUTTER

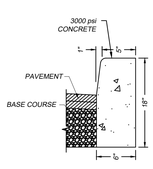
SCALE: N.T.S.



CONCRETE RIBBON CURB



STANDARD TYPE "B" CURB SECTION



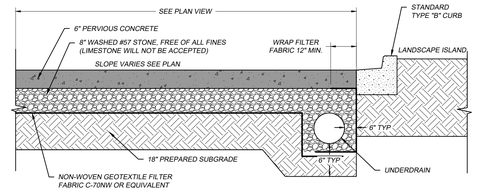
TYPE "C" CURB SECTION

NOTE:

1. ASPHALT TO BE 1/4" ABOVE CONCRETE CURB, EXCEPT FOR REJECT CURB.
2. CURB MUST MEET SCDOT SPECIFICATIONS FOR STRENGTH -3000 PSI.
3. PROOF ROLL SUBBASE PRIOR TO LAYING CURB AND GUTTER.

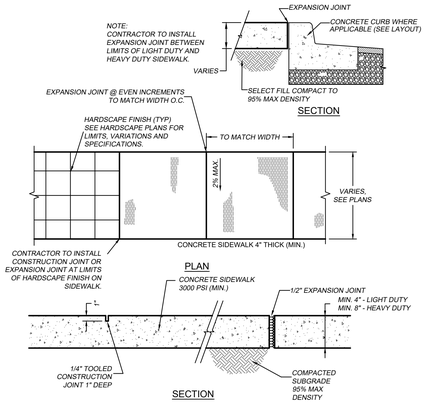
CONCRETE CURB SECTIONS

SCALE: N.T.S.



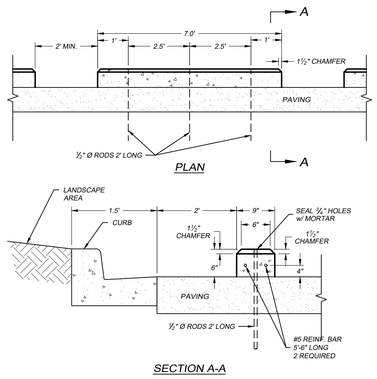
PERVIOUS CONCRETE SECTION

SCALE: N.T.S.



SIDEWALK DETAIL

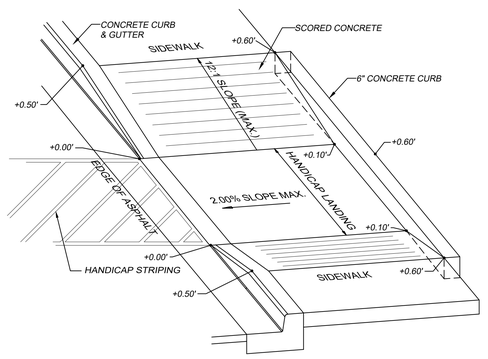
SCALE: N.T.S.



SECTION A-A

REINFORCED CONCRETE WHEEL STOP

SCALE: N.T.S.



DEPRESSED SIDEWALK

SCALE: N.T.S.

SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 29814
4/14/21
ERIC K. SANFORD

SOUTH CAROLINA
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PAWLEY'S ISLAND, SC 29585

PROJECT NUMBER:
19101E
ISSUE DATE:
11/13/2020

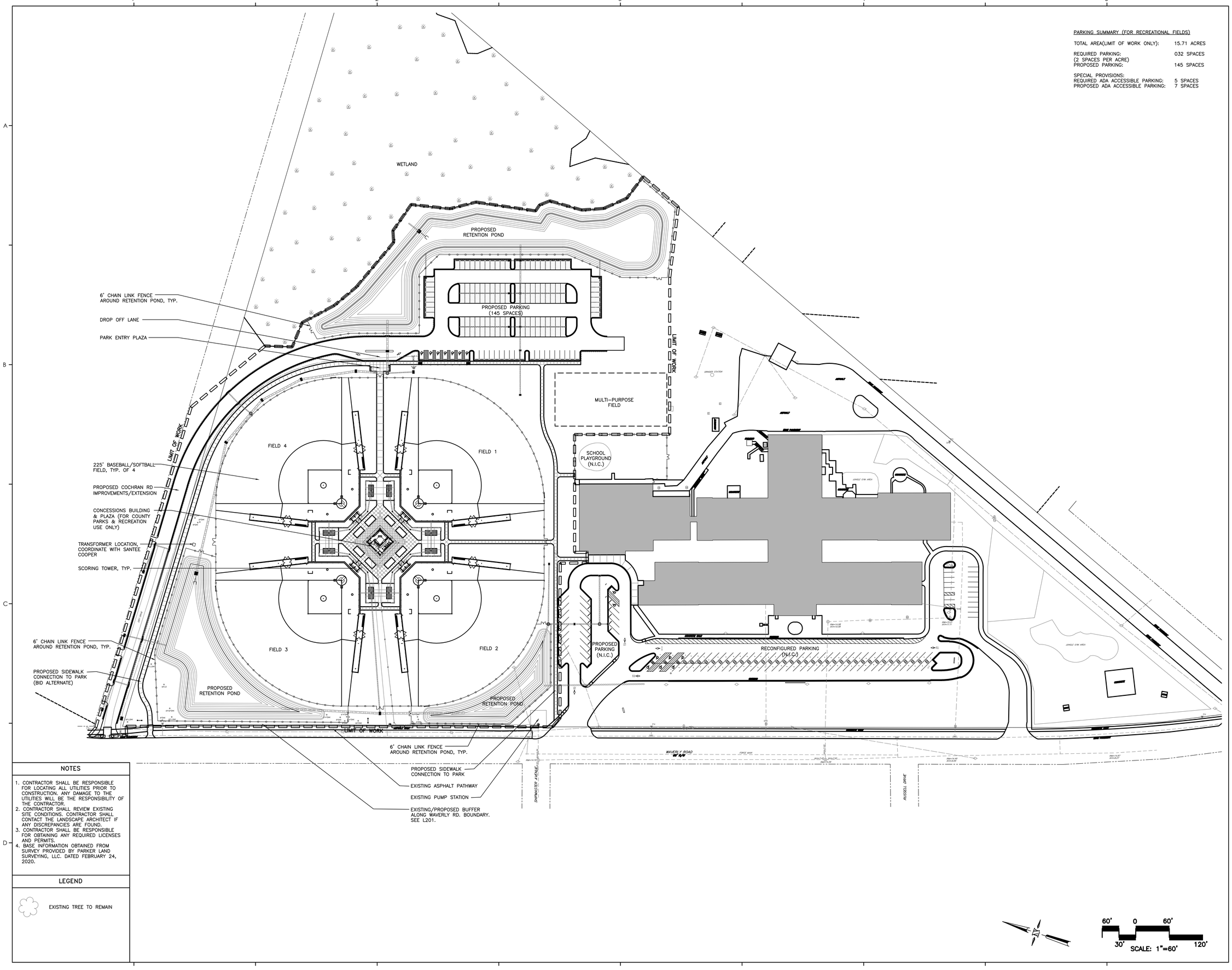
DRAWN BY: JBE
CHECKED BY: EKS

Permit Drawings

Revision Schedule		
#	Description	Date
2	SCDHEC COMMENTS	2-04-21
4	GT. STORM COMMENTS	4-14-21

SITE
DETAILS

C-502



NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES PRIOR TO CONSTRUCTION. ANY DAMAGE TO THE UTILITIES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. CONTRACTOR SHALL REVIEW EXISTING SITE CONDITIONS. CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT IF ANY DISCREPANCIES ARE FOUND.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY REQUIRED LICENSES AND PERMITS.
4. BASE INFORMATION OBTAINED FROM SURVEY PROVIDED BY PARKER LAND SURVEYING, LLC. DATED FEBRUARY 24, 2020.

LEGEND

EXISTING TREE TO REMAIN

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WAVERLY PARK

AT
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1364 WAVERLY RD.
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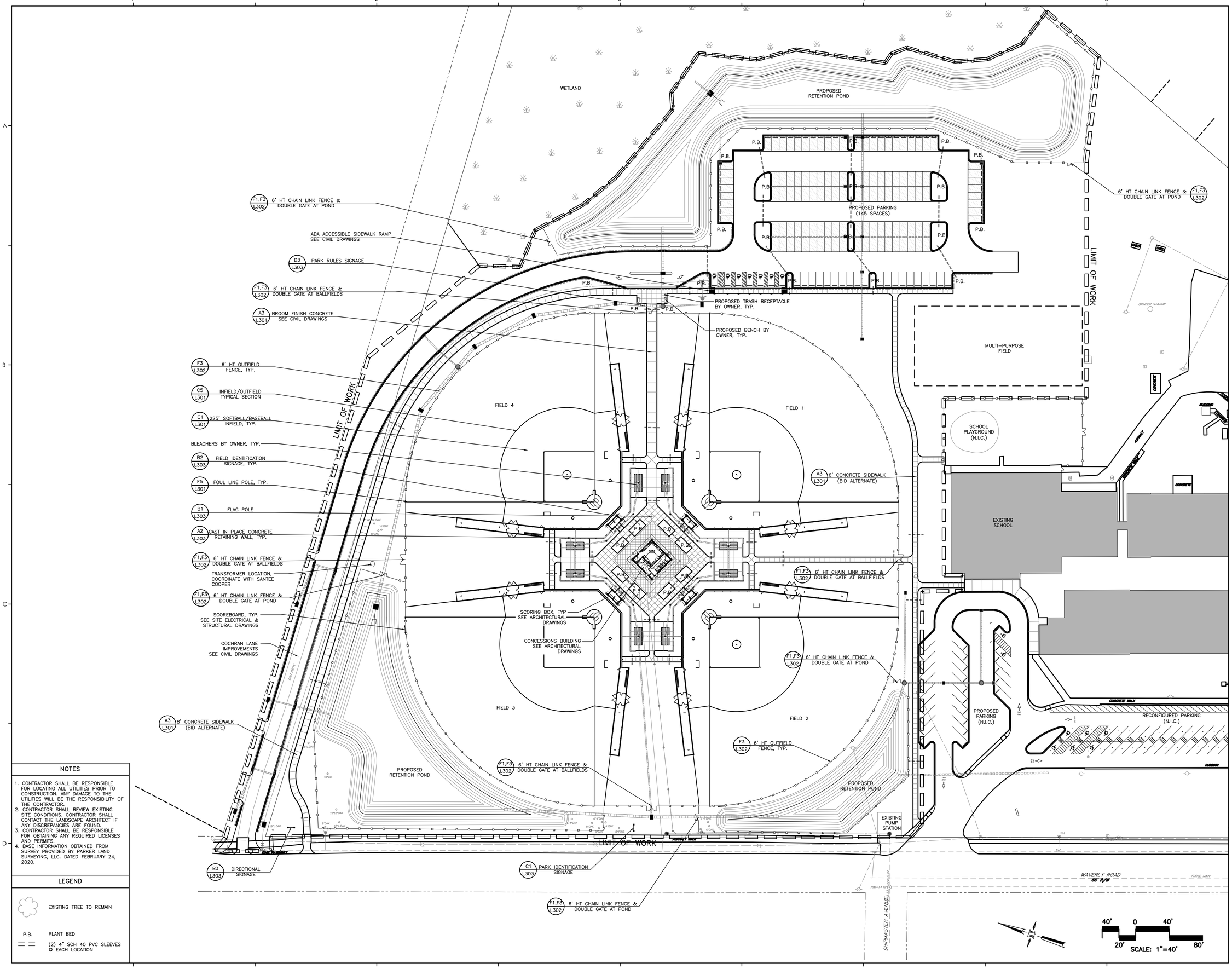
PROJECT NUMBER: 19-004-04
ISSUE DATE: 4/13/2021
DRAWN BY: PW / JW
CHECKED BY: PW / JW / MR

Bid Set

Revision Schedule		
#	Description	Date

OVERALL SITE PLAN

L100



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3. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY REQUIRED LICENSES AND PERMITS.
4. BASE INFORMATION OBTAINED FROM SURVEY PROVIDED BY PARKER LAND SURVEYING, LLC. DATED FEBRUARY 24, 2020.

LEGEND

EXISTING TREE TO REMAIN

P.B. PLANT BED

(2) 4" SCH 40 PVC SLEEVES @ EACH LOCATION

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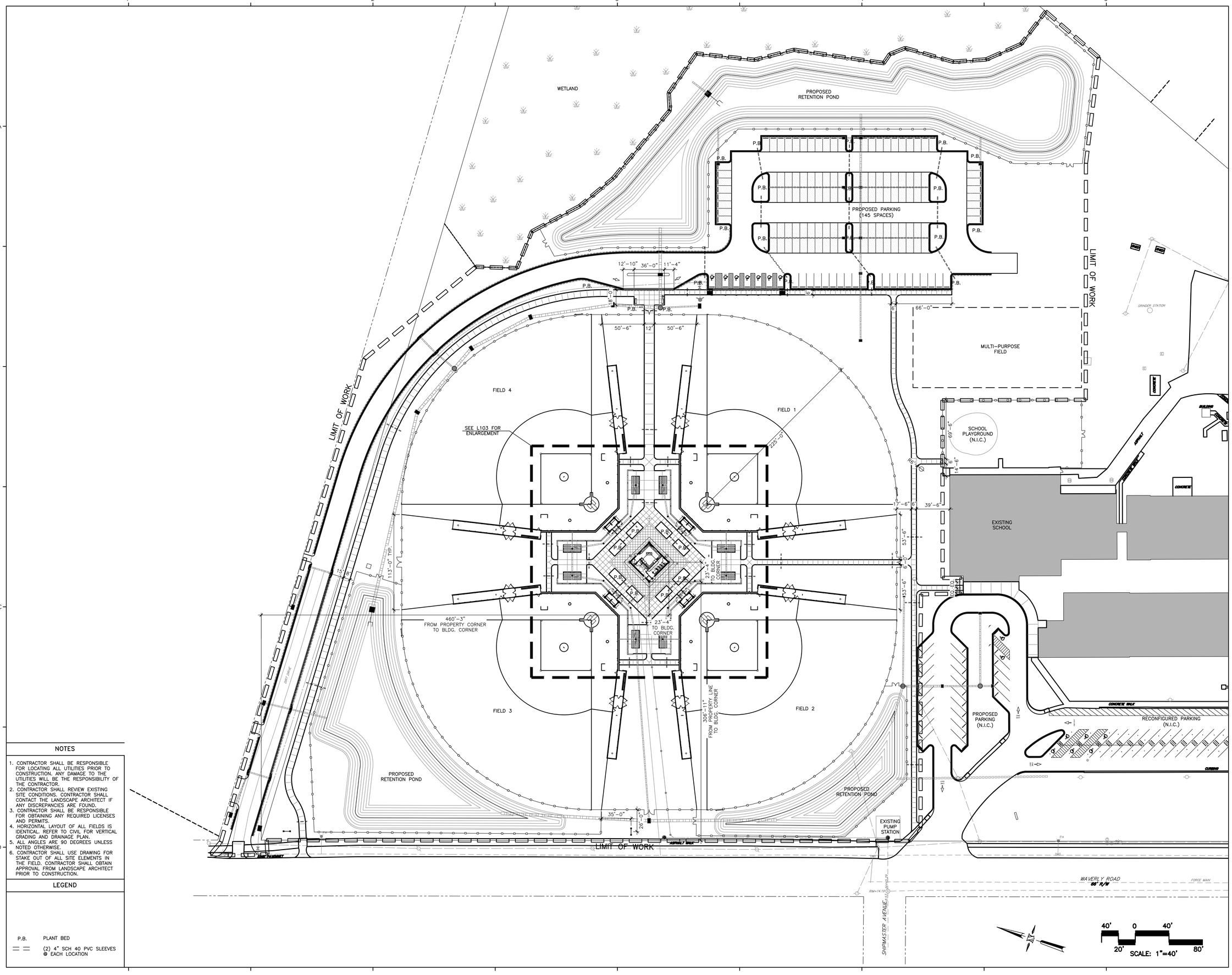
Bid Set

Revision Schedule		
#	Description	Date

KEY PLAN

L101



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3. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY REQUIRED LICENSES AND PERMITS.
4. HORIZONTAL LAYOUT OF ALL FIELDS IS IDENTICAL. REFER TO CIVIL FOR VERTICAL GRADING AND DRAINAGE PLAN.
5. ALL ANGLES ARE 90 DEGREES UNLESS NOTED OTHERWISE.
6. CONTRACTOR SHALL USE DRAWING FOR STAKE OUT OF ALL SITE ELEMENTS IN THE FIELD. CONTRACTOR SHALL OBTAIN APPROVAL FROM LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.

LEGEND

P.B. PLANT BED

(2) 4" SCH 40 PVC SLEEVES @ EACH LOCATION

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ISSUE DATE: 4/13/2021
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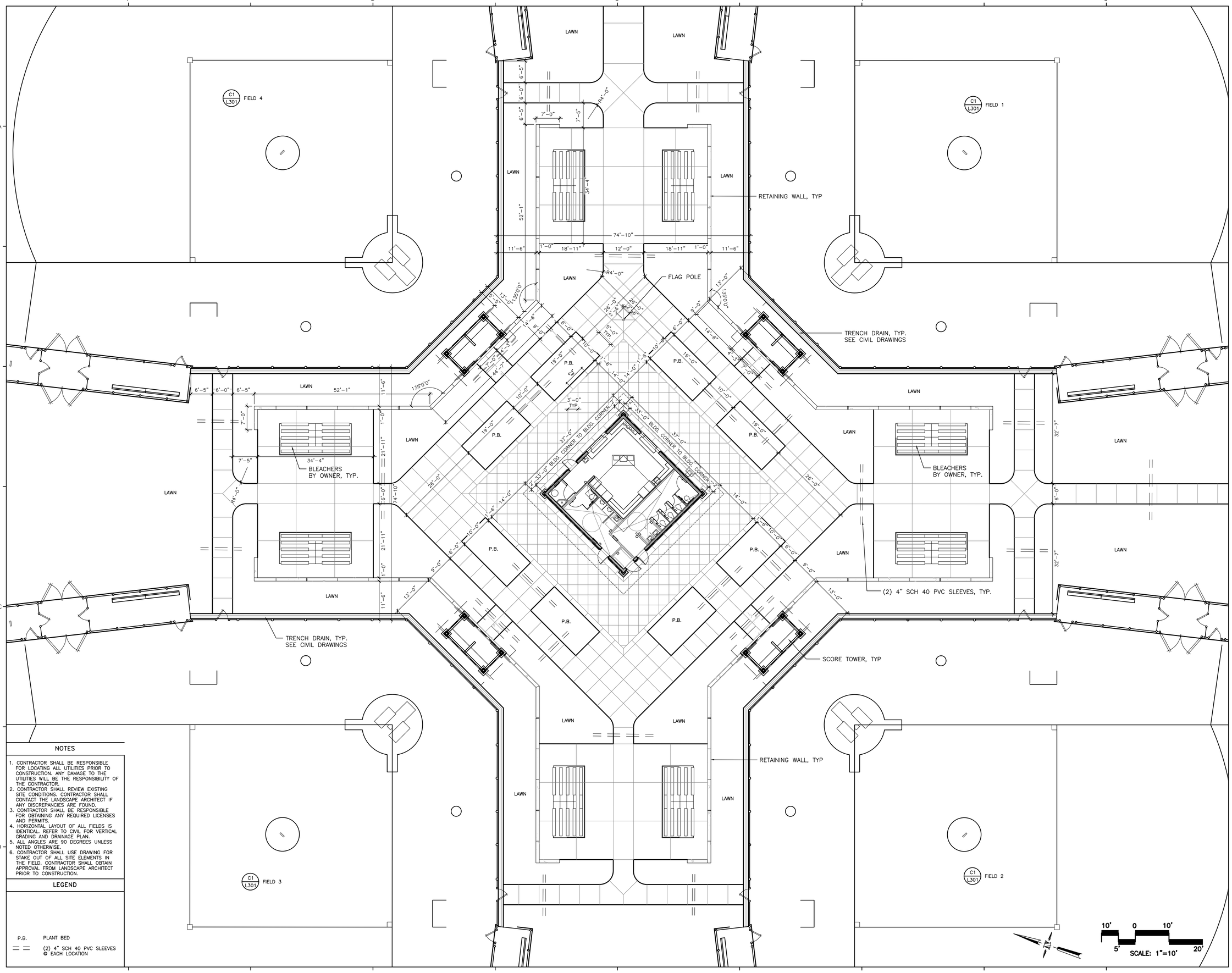
Bid Set

Revision Schedule		
#	Description	Date

LAYOUT PLAN

L102



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LEGEND

P.B. PLANT BED

(2) 4" SCH 40 PVC SLEEVES @ EACH LOCATION

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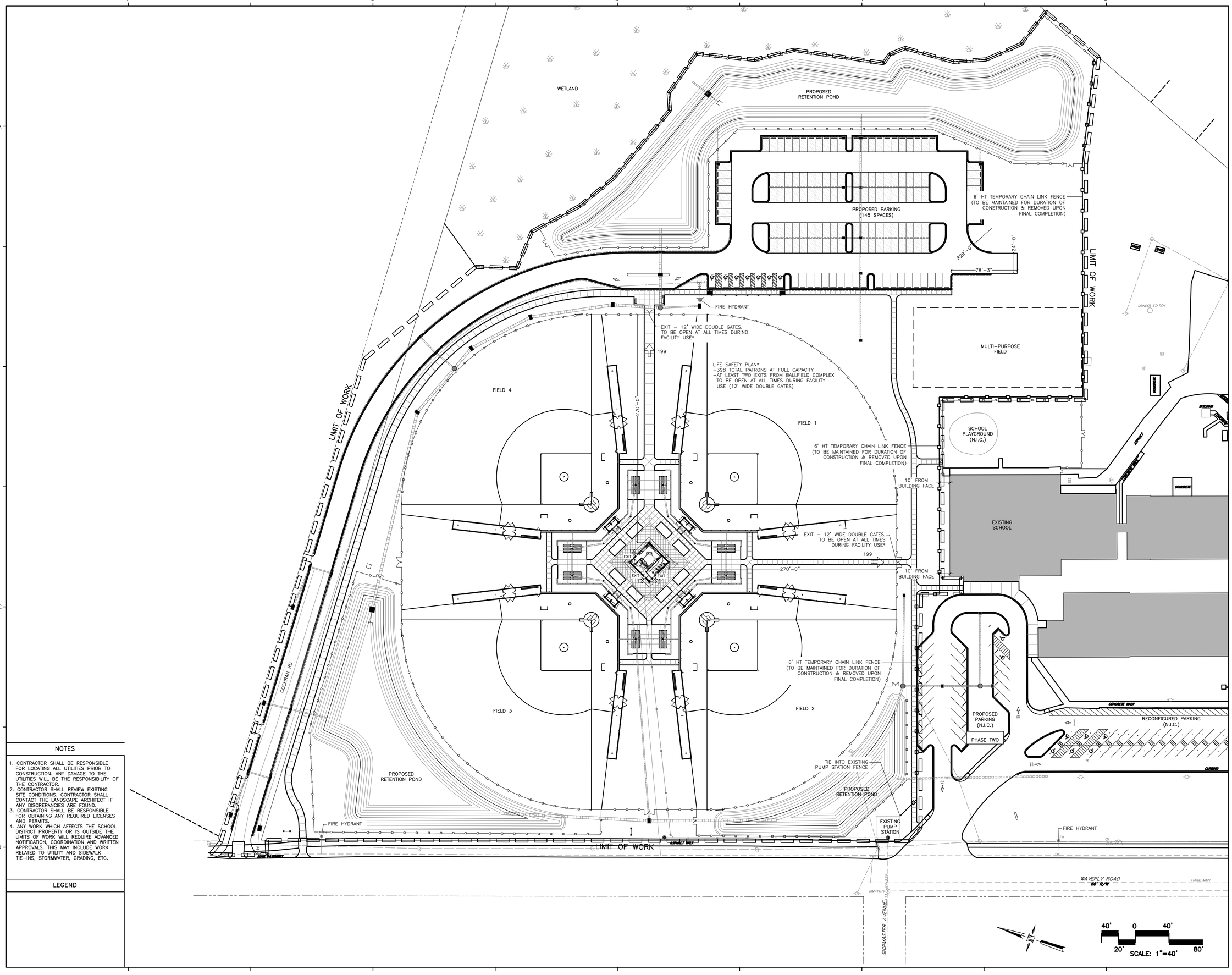
Bid Set

Revision Schedule		
#	Description	Date

LAYOUT PLAN
ENLARGEMENT

L103



NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES PRIOR TO CONSTRUCTION. ANY DAMAGE TO THE UTILITIES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. CONTRACTOR SHALL REVIEW EXISTING SITE CONDITIONS. CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT IF ANY DISCREPANCIES ARE FOUND.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY REQUIRED LICENSES AND PERMITS.
4. ANY WORK WHICH AFFECTS THE SCHOOL DISTRICT PROPERTY OR IS OUTSIDE THE LIMITS OF WORK WILL REQUIRE ADVANCED NOTIFICATION, COORDINATION AND WRITTEN APPROVALS. THIS MAY INCLUDE WORK RELATED TO UTILITY AND SIDEWALK TIE–INS, STORMWATER, GRADING, ETC.

LEGEND

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www.sganwdesign.com

WAVERLY PARK

AT
WACCAMAW ELEMENTARY SCHOOL
1364 WAVERLY RD.
PAWLEY'S ISLAND, SC 29585

PROJECT NUMBER: 19-004-04
ISSUE DATE: 4/13/2021
DRAWN BY: PW / JW
CHECKED BY: PW / JW / MR

Bid Set

Revision Schedule		
#	Description	Date

LIFE SAFETY, FIRE APPARATUS ROUTING & CONSTRUCTION COORDINATION PLAN

L104

TREE REPLACEMENT SUMMARY (NON SINGLE–FAMILY USE):
*PER ARTICLE XIII, SECTION 1301.12 & 1303.4 OF GEORGETOWN COUNTY ZONING ORDINANCE

PRE–DEVELOPMENT

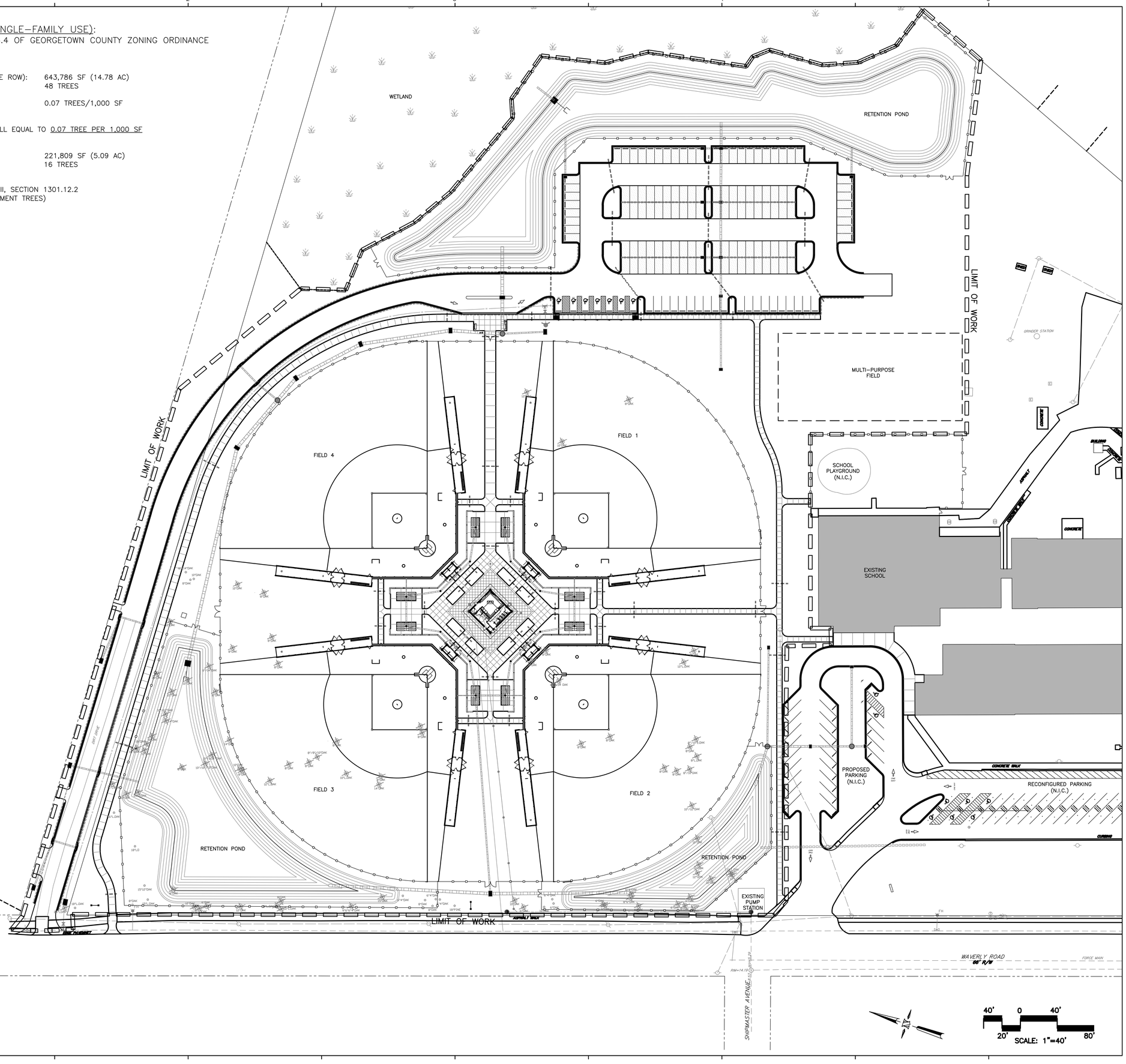
TOTAL DEVELOPED LOT AREA(EXCLUDES COCHRAN LANE ROW):	643,786 SF (14.78 AC)
TOTAL NUMBER OF EXISTING PROTECTED TREES:	48 TREES
EXISTING TREE/LOT AREA RATIO:	0.07 TREES/1,000 SF

POST–DEVELOPMENT

POST DEVELOPMENT TREE TO OPEN SPACE RATIO SHALL EQUAL TO 0.07 TREE PER 1,000 SF
(0 GRAND TREES ARE TO BE REMOVED)

TOTAL OPEN SPACE AREA:	221,809 SF (5.09 AC)
NUMBER OF TREES REQUIRED POST DEVELOPMENT:	16 TREES

07 PROTECTED TREES REMAINING
09 REPLACEMENT TREES REQUIRED – PER ARTICLE XIII, SECTION 1301.12.2
(SEE L201 AND L203 PLANT SCHEDULE FOR REPLACEMENT TREES)



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LEGEND

EXISTING PROTECTED TREE TO REMAIN

EXISTING PROTECTED TREE TO BE REMOVED

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Revision Schedule		
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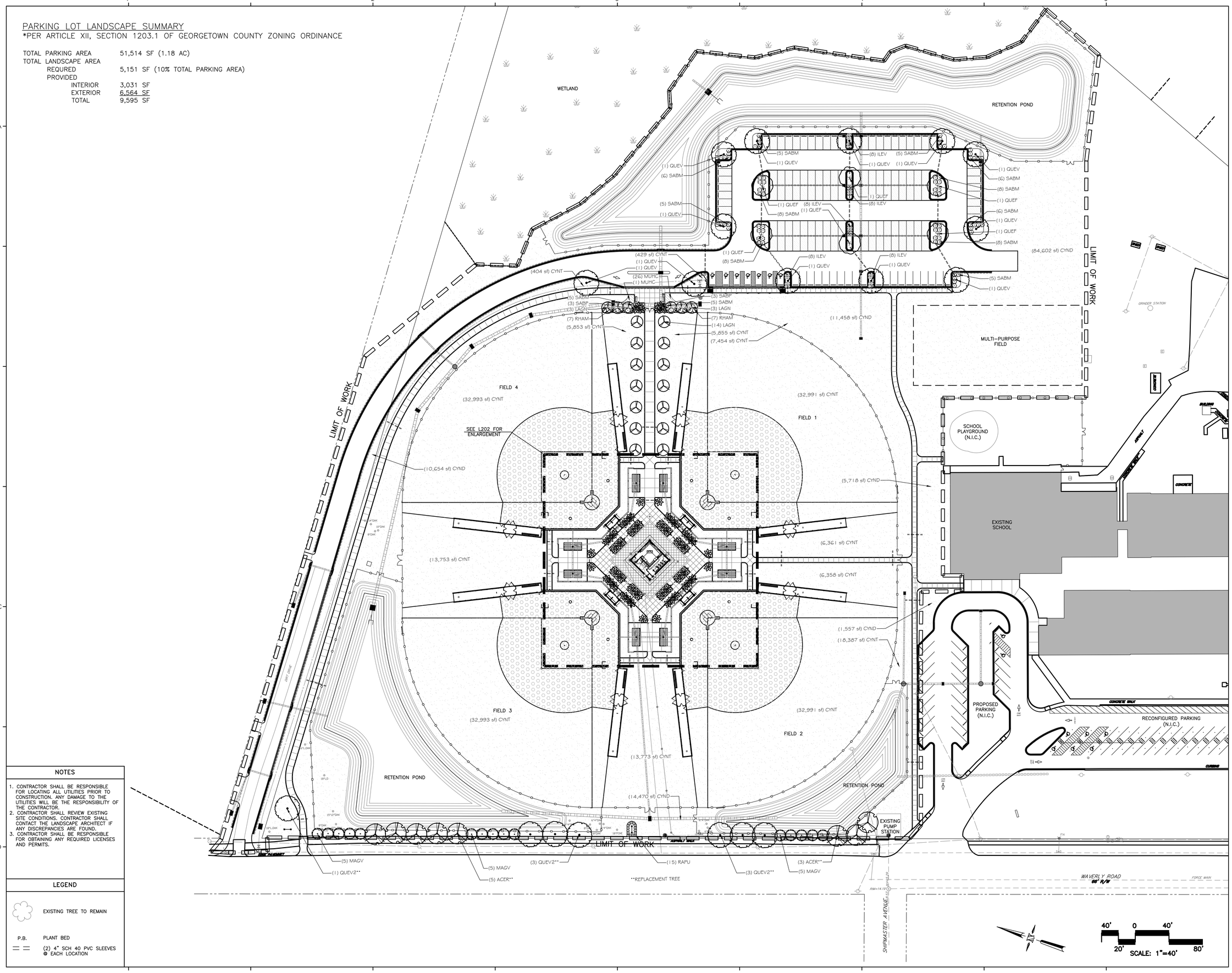
TREE PLAN

L200

PARKING LOT LANDSCAPE SUMMARY

*PER ARTICLE XII, SECTION 1203.1 OF GEORGETOWN COUNTY ZONING ORDINANCE

TOTAL PARKING AREA	51,514 SF (1.18 AC)
TOTAL LANDSCAPE AREA	
REQURED	5,151 SF (10% TOTAL PARKING AREA)
PROVIDED	
INTERIOR	3,031 SF
EXTERIOR	6,564 SF
TOTAL	9,595 SF



NOTES

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3. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY REQUIRED LICENSES AND PERMITS.

LEGEND

EXISTING TREE TO REMAIN

P.B. PLANT BED

(2) 4" SCH 40 PVC SLEEVES @ EACH LOCATION

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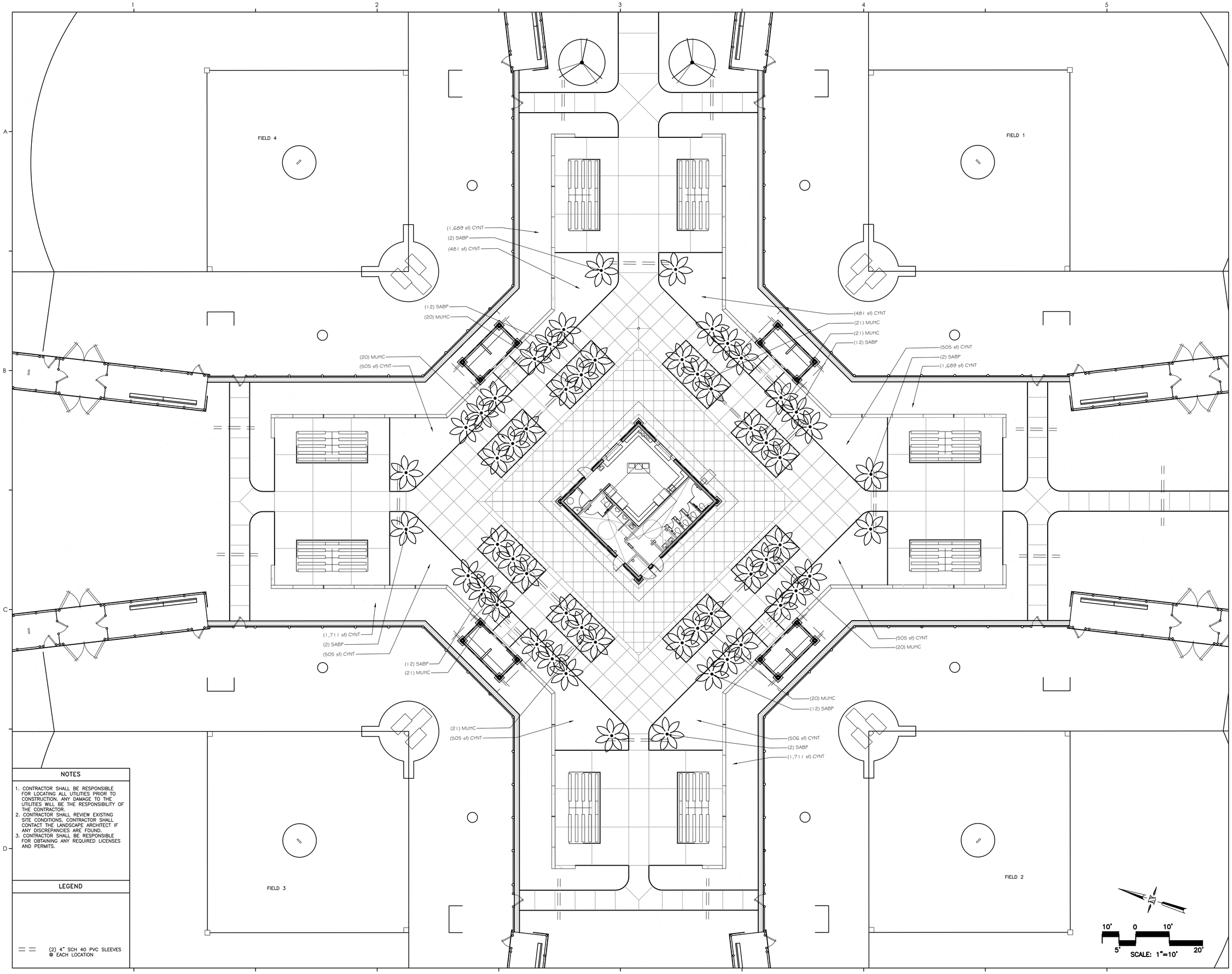
Revision Schedule		
#	Description	Date

PLANTING PLAN

L201



NOTES

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2. CONTRACTOR SHALL REVIEW EXISTING SITE CONDITIONS. CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT IF ANY DISCREPANCIES ARE FOUND.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY REQUIRED LICENSES AND PERMITS.

LEGEND

= = (2) 4" SCH 40 PVC SLEEVES @ EACH LOCATION

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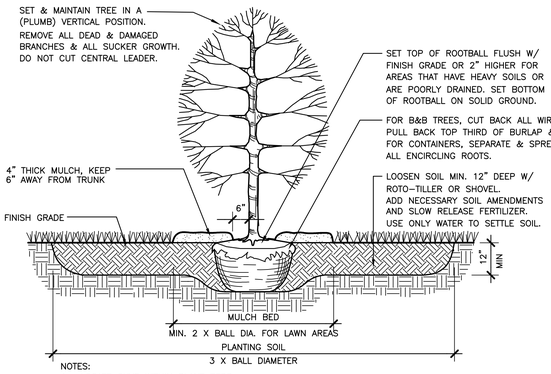
Revision Schedule		
#	Description	Date

PLANTING PLAN ENLARGEMENT

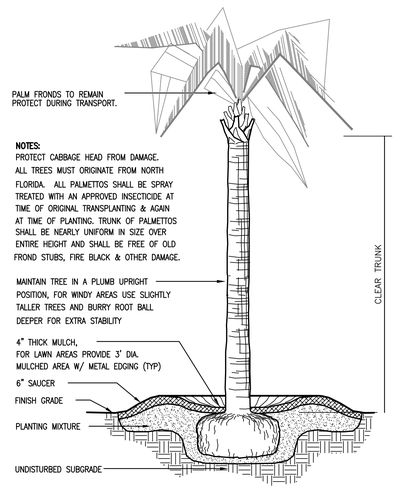
L202



NOTES:
1. LOCATE GUYS WITHIN PLANT BEDS
2. ALL CABLE CLAMPS & BOLTS SHALL BE RUST RESISTANT
3. REMOVE ALL ANCHORS, STRAPS AND GUYS AFTER ONE (1) YEAR.
4. PROVIDE 6' DIAMETER MULCH RING WITH TRENCH EDGE AT EVERY TREE PLANTED IN SODDED AREA.

A1 TREE DETAIL

N.T.S.

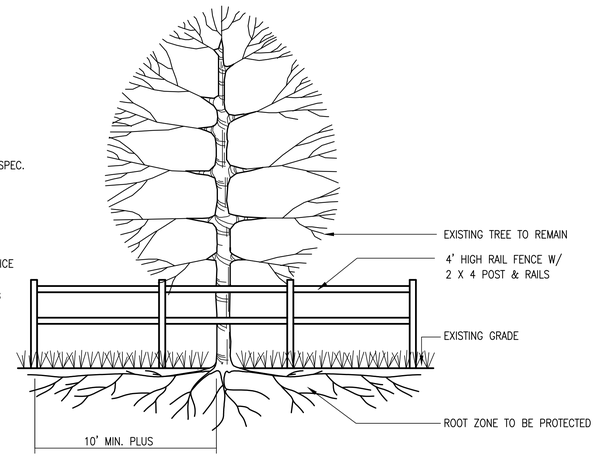


NOTES:
PROTECT CABBAGE HEAD FROM DAMAGE. ALL TREES MUST ORIGINATE FROM NORTH FLORIDA. ALL PALMETTOS SHALL BE SPRAY TREATED WITH AN APPROVED INSECTICIDE AT TIME OF ORIGINAL TRANSPLANTING & AGAIN AT TIME OF PLANTING. TRUNK OF PALMETTOS SHALL BE NEARLY UNIFORM IN SIZE OVER ENTIRE HEIGHT AND SHALL BE FREE OF OLD FROND STUBS, FIRE BLACK & OTHER DAMAGE.

A2 PALM TREE DETAIL

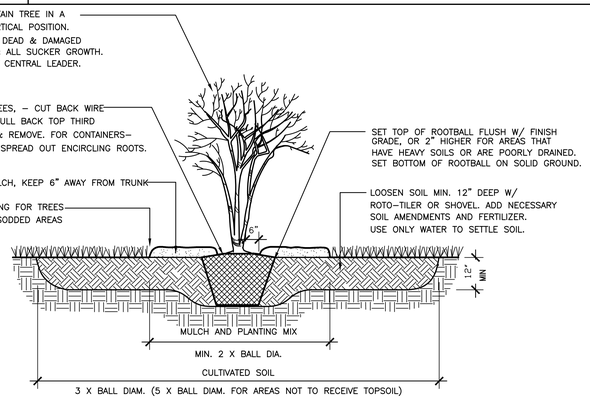
N.T.S.

NOTES:
1. PROTECTIVE TREE BARRICADE TO BE PLACED A MINIMUM OF 10' FROM BASE OF TREE PLUS AN ADDITIONAL 1' FOR EACH ADDITIONAL 1" DBH GREATER THAN 10" DBH. IDEALLY FENCE TO BE LOCATED AT THE OUTER PERIMETER OF THE TREE CANOPY.
2. ALL WORK DONE WITHIN PROTECTIVE BARRICADES IS TO BE DONE BY HAND ONLY.
3. ALL TREE PROTECTION TO BE IN PLACE PRIOR TO BEGINNING CONSTRUCTION. MAINTAIN TREE BARRICADES AT ALL TIMES, SEE TREE PROTECTION SPEC. SPEC. FOR MORE INFORMATION.
4. ALL ROOTS TO BE REMOVED DURING DEVELOPMENT SHALL BE SEVERED CLEAN AND A 2" LAYER OF MULCH SHALL BE APPLIED OVER THE SURFACE OF EXPOSED ROOTS DURING DEVELOPMENT.
5. ALL PRUNING OF PROTECTED TREES AND GRAND TREES SHALL BE DONE BY A QUALIFIED TREE SERVICE (CERTIFIED ARBORIST).
6. WHERE TREE PROTECTION IS OCCURRING IN PARKING AREAS PROVIDE 4-6" INCHES OF BARK MULCH IN TREE PROTECTION AREA.



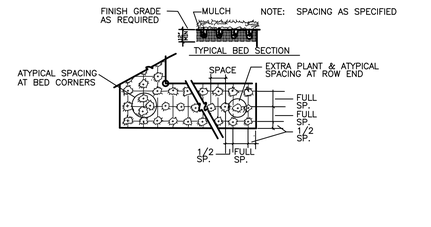
A4 TREE FENCE DETAIL

N.T.S.



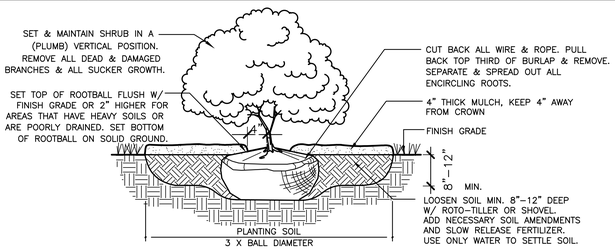
B1 MULTI-STEMMED TREE DETAIL

N.T.S.



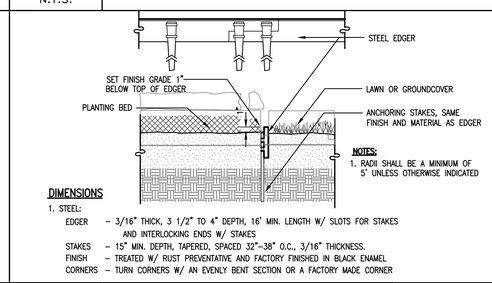
B2 GROUNDCOVER DETAIL

N.T.S.



C1 SHRUB DETAIL

N.T.S.

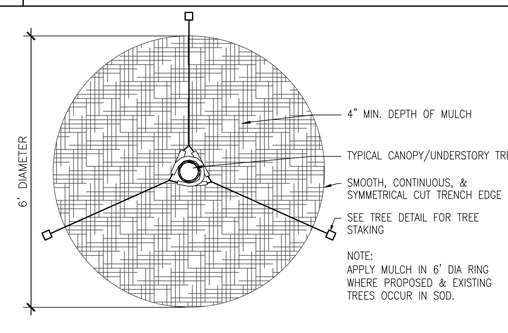


NOTES:
1. RADII SHALL BE A MINIMUM OF 5' UNLESS OTHERWISE INDICATED

DIMENSIONS
1. STEEL:
EDGER – 3/16" THICK, 3 1/2" TO 4" DEPTH, 16' MIN. LENGTH W/ SLOTS FOR STAKES AND INTERLOCKING ENDS W/ STAKES
STAKES – 15" MIN. DEPTH, TAPERED, SPACED 32"–38" O.C., 3/16" THICKNESS.
FINISH – TREATED W/ RUST PREVENTATIVE AND FACTORY FINISHED IN BLACK ENAMEL
CORNERS – TURN CORNERS W/ AN EVENLY BENT SECTION OR A FACTORY MADE CORNER

C2 STEEL EDGE DETAIL

N.T.S.

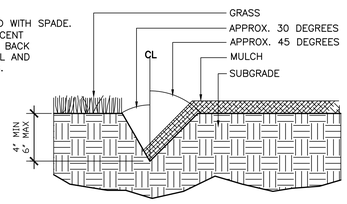


NOTE:
APPLY MULCH IN 6' DIA RING WHERE PROPOSED & EXISTING TREES OCCUR IN SOD.

D1 TREE MULCHING

N.T.S.

NOTE:
EXCAVATE TRENCH BY HAND WITH SPADE. ADD EXCESS SOIL TO ADJACENT PLANT BED AFTER PULLING BACK EXISTING MULCH. RAKE SOIL AND SMOOTH BEFORE MULCHING.



D2 TRENCH EDGE DETAIL

N.T.S.

PLANT SCHEDULE

Trees	Quantity	Botanical	Common	CAL.	CONT	HEIGHT	SPREAD		Remarks
ACER	8	Acer rubrum `Brandywine`	Brandywine Red Maple	3"	B&B	14'-16'	6'-8'		Specimen. Replacement Tree
LAGN	20	Lagerstroemia x `Natchez`	Crape Myrtle		30 gal.	8'-10'	4'-6'		Multi-Stem. 3 Stem Max.
MAGV	15	Magnolia virginiana	Sweet Bay		30 gal.	6'-8'	4'-6'		Specimen
QUEF	6	Quercus falcata	Southern Red Oak	2"	30 gal.	10'-12'	4'-6'		Specimen
QUEV	12	Quercus virginiana	Southern Live Oak	2"	30 gal.	10'-12'	4'-6'		Specimen
QUEV2	7	Quercus virginiana	Southern Live Oak	3"	B&B	12'-14'	6'-8'		Specimen. Replacement Tree
SABP	62	Sabal palmetto	Cabbage Palmetto		B&B	10'-12'			Clear Trunk. Matching Spec.
Shrubs	**Quantity**	**Botanical**	**Common**		**CONT**	**HEIGHT**	**SPREAD**		**Remarks**
ILEV	40	Ilex vomitoria `Schillings Dwarf`	Dwarf Schillings Holly		3 gal.	12"	12"		Full Container
RAPU	15	Rhaphiolepis umbellata `Eleanor Tabor`	Yedda Hawthorn		3 gal.	12"	12"		Full Container
RHAM	16	Rhaphiolepis x `Montic` TM	Magestic Beauty Indian Hawthorn		7 gal.	18"-24"	18"-24"		Full Container
SABM	80	Sabal minor	Dwarf Palmetto		7 gal.	18"-24"	18"-24"		Full Container
Ground Covers	**Quantity**	**Botanical**	**Common**		**CONT**	**HEIGHT**	**SPREAD**	**Spacing**	**Remarks**
CYND	204,609 SF	Cynodon dactylon	Bermuda Grass		seed				Hydroseed
CYNT	221,389 SF	Cynodon dactylon `Tifway 419`	Tifway 419 Bermuda Grass		sod				Certified Sod
MUHC	191	Muhlenbergia capillaris	Pink Muhly Grass		3 gal.	1'-2'	1'-2'	36" o.c.	Full Container

GENERAL PLANT NOTES

1. THE CONTRACTOR SHALL LOCATE ALL PROPOSED & EXISTING UTILITIES PRIOR TO THE BEGINNING OF WORK. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO UTILITIES THAT ARE DISTURBED AS A RESULT OF THE WORK.
2. THE CONTRACTOR SHALL MAINTAIN ALL GRASSED AREAS, INCLUDING THE REPAIR OF EROSION AREAS, UNTIL GRASS HAS REACHED THE LEVEL OF FINAL ACCEPTANCE & THROUGHOUT MAINTENANCE CONTRACT PERIOD IF APPLICABLE.
3. ALL AREAS THAT ARE DISTURBED BY CONSTRUCTION INSIDE OR OUTSIDE THE LIMIT OF WORK SHALL BE REPAIRED, GRADED, & GRASSED.
4. ALL PLANT BEDS SHALL RECEIVE PINE STRAW MULCH TO A DEPTH OF 4".
5. ALL EXISTING TREES TO BE SAVED WILL HAVE TREE BARRICADES INSTALLED AROUND THEM PRIOR TO BEGINNING OF DEMOLITION. ALL WORK IN THOSE AREAS TO BE DONE BY HAND. FENCES SHALL BE MAINTAINED & KEPT IN PLACE AT ALL TIMES. SEE TREE FENCE DETAIL.
6. PROVIDE EROSION CONTROL WHERE SLOPES ARE GREATER THAN 3:1 & WHERE EROSION KEEPS RE-OCCURING.
7. ALL TREE, SHRUB & GROUNDCOVER MATERIALS SHALL BE PLANTED WITHIN 24 HOURS AFTER DELIVERY.
8. APPLY WEED GERMINATION INHIBITOR ("PREEN" OR EQUAL) TO ALL PLANTBED AREAS. REFER TO SPECIFICATION 02900.
9. ANY PLANTS LOCATED IN DIRECT SUN SHALL BE NURSERY SUN GROWN.
10. CONTRACTOR WILL MIX 40LBS(SHREDDED PINEBARK) AND 40LBS(COMPOSTED COW MANURE) PER 25 SQUARE FEET IN PLANT BEDS TO A DEPTH OF 12".
11. ALL TOPSOIL IS TO BE STOCKPILED FOR RE-USE IN LANDSCAPE WORK. SEE SPECIFICATIONS.
12. CONTRACTOR IS RESPONSIBLE FOR PLANT QUANTITIES ON LANDSCAPE PLAN NOT IN PLANT SCHEDULE.
13. PROPOSED AND EXISTING TREES IN LAWN AREAS SHALL RECEIVE 6' DIAMETER MULCH RING.

NOTE: LANDSCAPE ARCHITECT SHALL SELECT OR REVIEW ALL TREE MATERIAL AND PLANTS DESIGNATED AS SPECIMENS PRIOR TO INSTALLATION.

D4 PLANTING SCHEDULE & NOTES

N.T.S.

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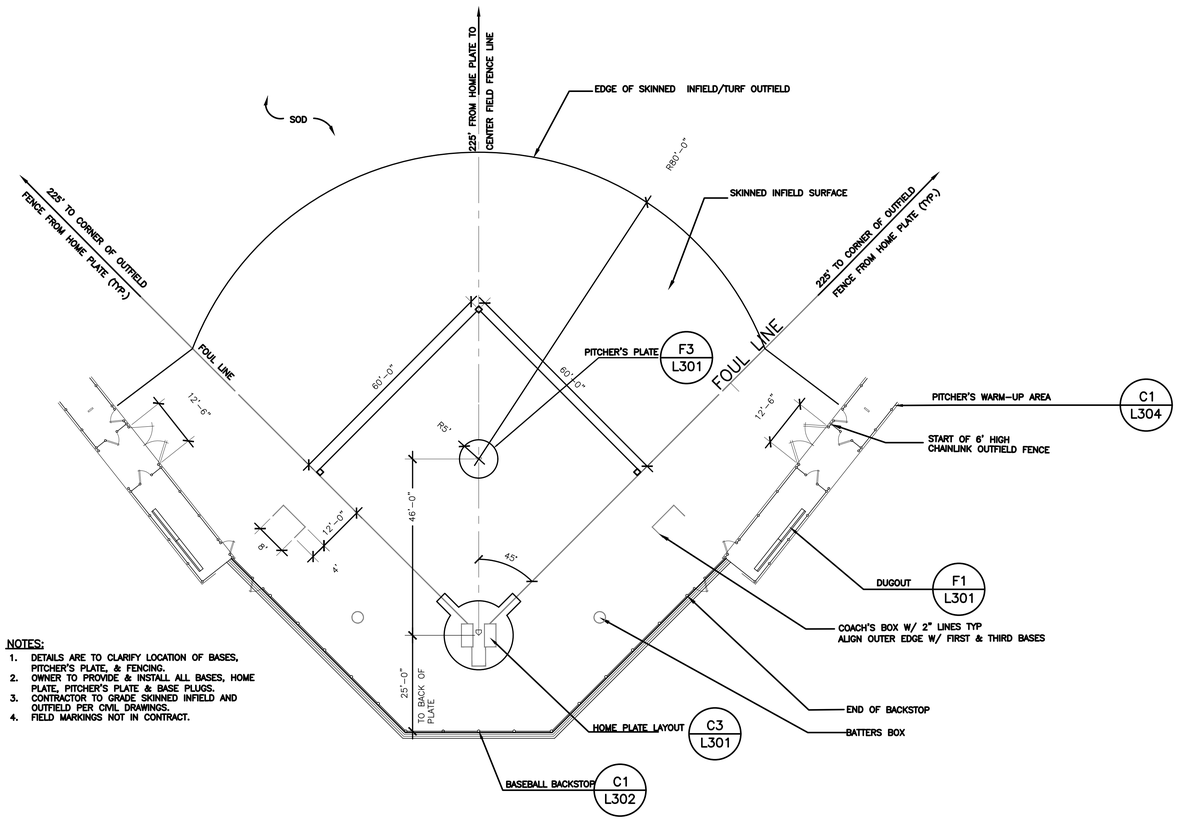
PLANTING DETAILS & SCHEDULE

L203

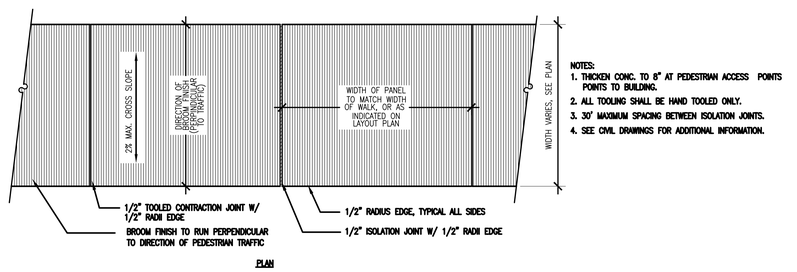


NOTES:
1. DETAILS ARE TO CLARIFY LOCATION OF BASES, PITCHER'S PLATE, & FENCING.
2. OWNER TO PROVIDE & INSTALL ALL BASES, HOME PLATE, PITCHER'S PLATE & BASE PLUGS.
3. CONTRACTOR TO GRADE SKINNED INFIELD AND OUTFIELD PER CIVIL DRAWINGS.
4. FIELD MARKINGS NOT IN CONTRACT.

FIELD LAYOUT

C1 — 225' SOFTBALL/BASEBALL INFIELD

1/16"=1'-0"

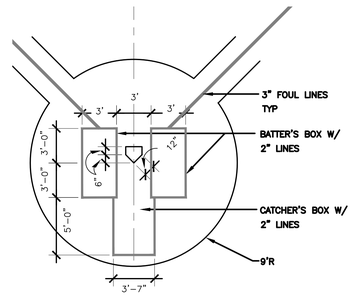


NOTES:
1. THICKEN CONC. TO 8" AT PEDESTRIAN ACCESS POINTS POINTS TO BUILDING.
2. ALL TOOLING SHALL BE HAND TOOLED ONLY.
3. 30' MAXIMUM SPACING BETWEEN ISOLATION JOINTS.
4. SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.

PLAN

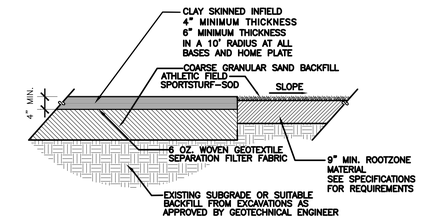
A3 — BROOM FINISHED CONCRETE

1"=1'-0"



C3 — HOME PLATE LAYOUT

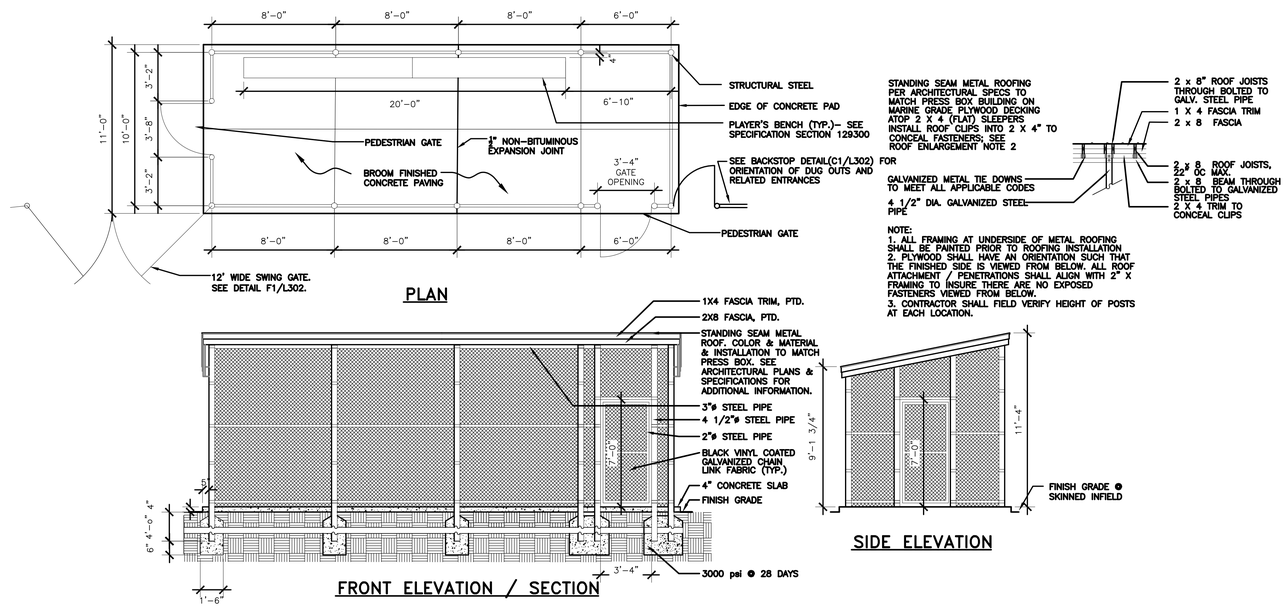
1/16"=1'-0"



EDGE OF SKINNED INFIELD/TURF OUTFIELD

C5 — INFIELD/OUTFIELD TYPICAL SECTION

1/2"=1'-0"



NOTE:
1. ALL FRAMING AT UNDERSIDE OF METAL ROOFING SHALL BE PAINTED PRIOR TO ROOFING INSTALLATION
2. PLYWOOD SHALL HAVE AN ORIENTATION SUCH THAT THE FINISHED SIDE IS VIEWED FROM BELOW. ALL ROOF ATTACHMENT / PENETRATIONS SHALL ALIGN WITH 2" X FRAMING TO INSURE THERE ARE NO EXPOSED FASTENERS VIEWED FROM BELOW.
3. CONTRACTOR SHALL FIELD VERIFY HEIGHT OF POSTS AT EACH LOCATION.

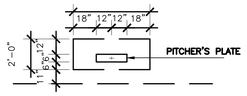
PLAN

FRONT ELEVATION / SECTION

SIDE ELEVATION

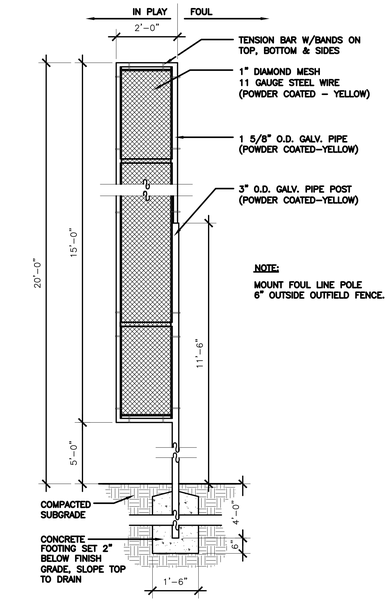
F1 — DUGOUT

1/4"=1'-0"



F3 — PITCHER'S PLATE ENLARGEMENT

1/4"=1'-0"



NOTE:
MOUNT FOUL LINE POLE 6" OUTSIDE OUTFIELD FENCE.

F5 — FOUL LINE POLE

1/2"=1'-0"

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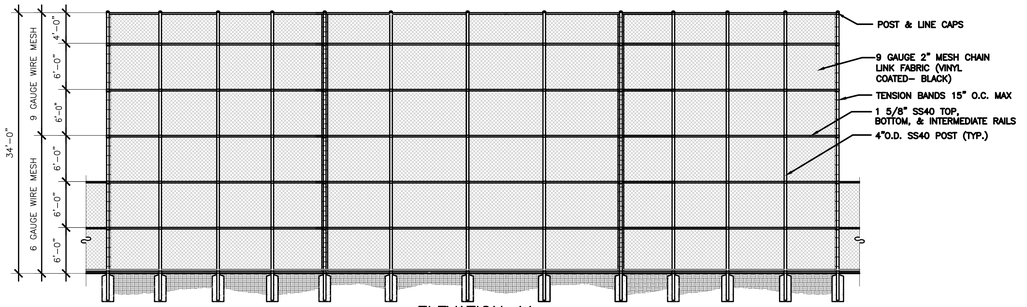
LANDSCAPE CONSTRUCTION DETAILS

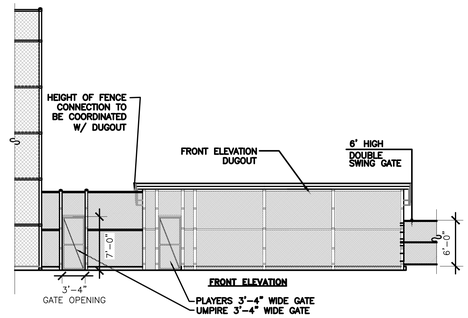
L301



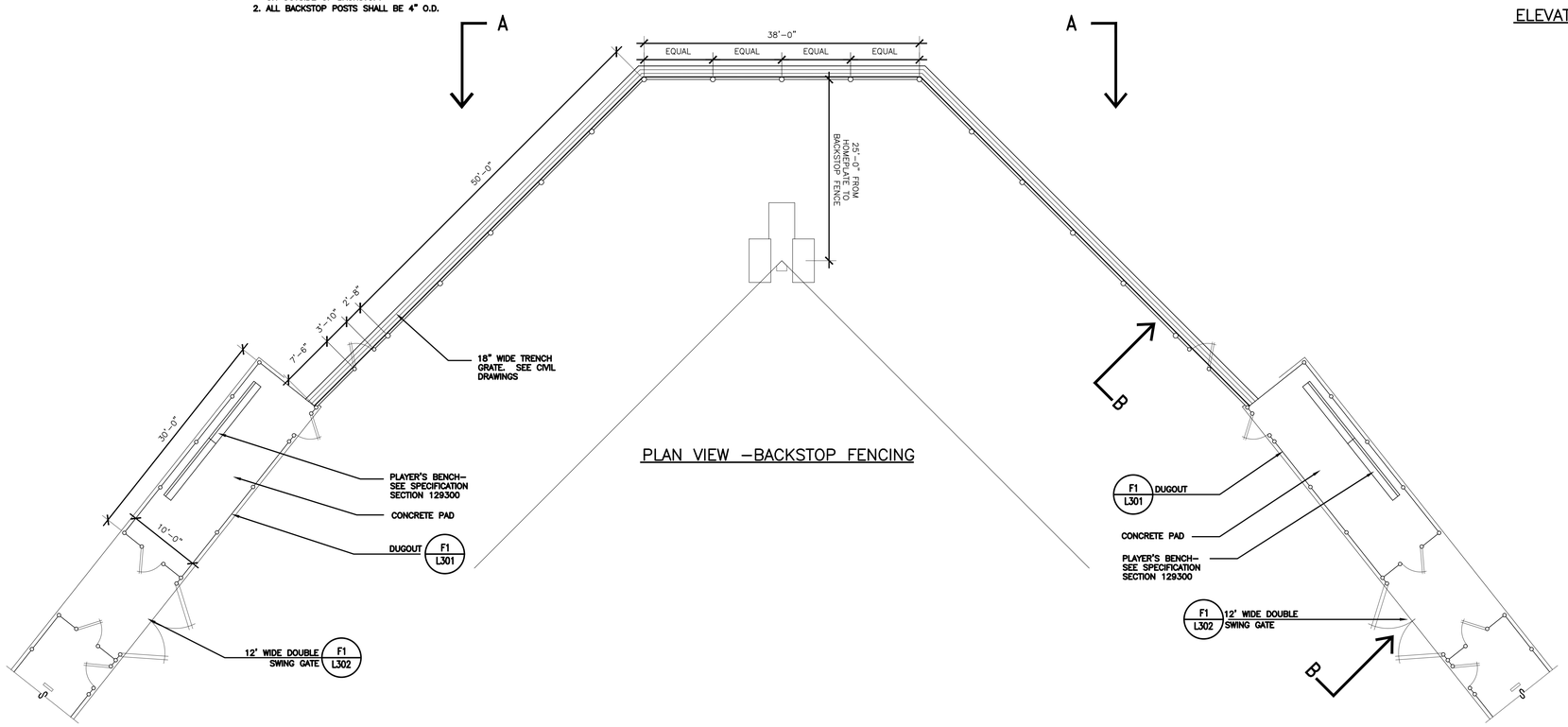
ELEVATION AA

NOTES:

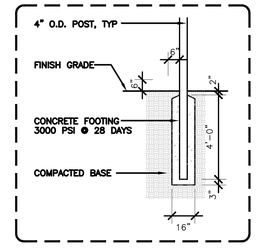
1. POSTS & RAILS SHALL BE INSTALLED ON OUTSIDE OF BACKSTOP.
2. ALL BACKSTOP POSTS SHALL BE 4" O.D.



ELEVATION BB



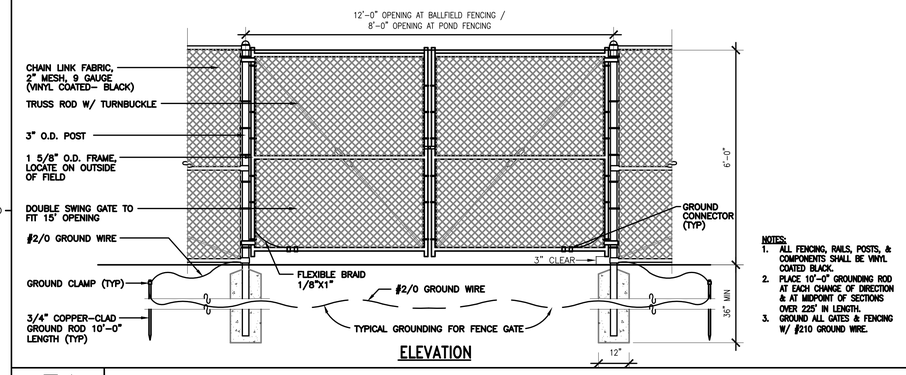
PLAN VIEW –BACKSTOP FENCING



FOOTING ENLARGEMENT
N.T.S

C1 225' BACKSTOP

1/8"=1'-0"

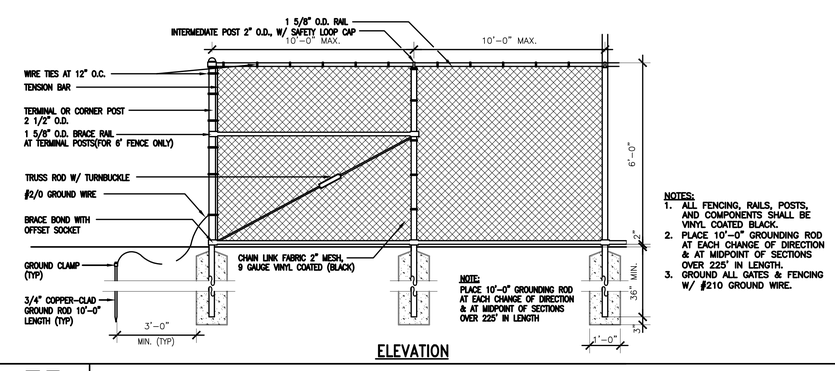


NOTES:
1. ALL FENCING, RAILS, POSTS, & COMPONENTS SHALL BE VINYL COATED BLACK.
2. PLACE 10'–0" GROUNDING ROD AT EACH CHANGE OF DIRECTION & AT MIDPOINT OF SECTIONS OVER 225' IN LENGTH.
3. GROUND ALL GATES & FENCING W/ #210 GROUND WIRE.

ELEVATION

F1 6' HT. DOUBLE SWING GATE @ 225' BALLFIELDS & PONDS

1/2"=1'-0"



NOTE:
PLACE 10'–0" GROUNDING ROD AT EACH CHANGE OF DIRECTION & AT MIDPOINT OF SECTIONS OVER 225' IN LENGTH

NOTES:
1. ALL FENCING, RAILS, POSTS, AND COMPONENTS SHALL BE VINYL COATED BLACK.
2. PLACE 10'–0" GROUNDING ROD AT EACH CHANGE OF DIRECTION & AT MIDPOINT OF SECTIONS OVER 225' IN LENGTH.
3. GROUND ALL GATES & FENCING W/ #210 GROUND WIRE.

ELEVATION

F3 6' HT. FENCE @ 225' BALLFIELDS & PONDS

1/2"=1'-0"

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8263 Ocean Highway
Pawleys Island, SC 29585
p 843.237.3421
www.sganwdesign.com

WAVERLY PARK

AT
WACCAMAW ELEMENTARY SCHOOL
1364 WAVERLY RD.
PAWLEY'S ISLAND, SC 29585

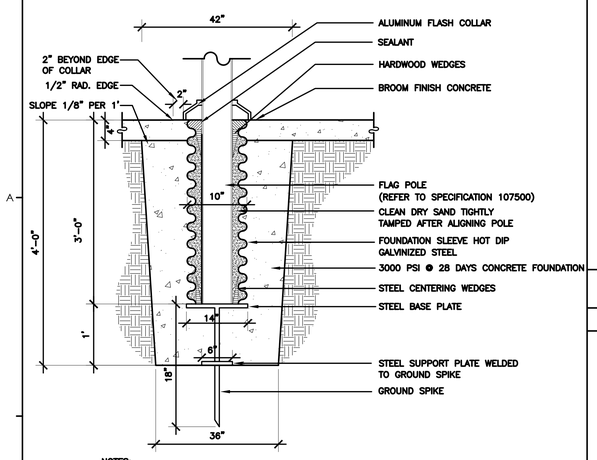
PROJECT NUMBER: 19-004-04
ISSUE DATE: 4/13/2021
DRAWN BY: PW / JW
CHECKED BY: PW / JW / MR

Bid Set

Revision Schedule		
#	Description	Date

LANDSCAPE CONSTRUCTION DETAILS

L302

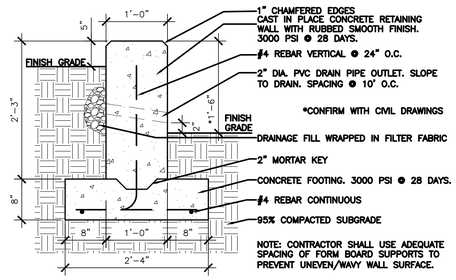


NOTES:

1. SEE SPECIFICATIONS FOR FLAGPOLE HEIGHTS
2. INSTALL FLAGPOLES PER MANUFACTURER'S RECOMMENDATIONS

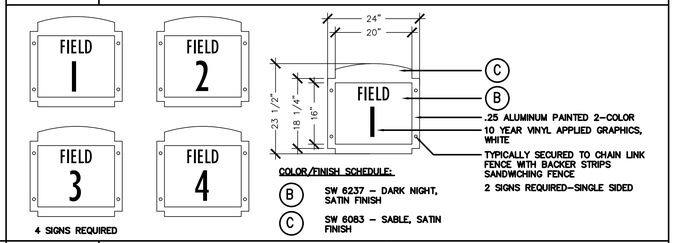
B1 FLAGPOLE FOOTING

1"=1'-0"



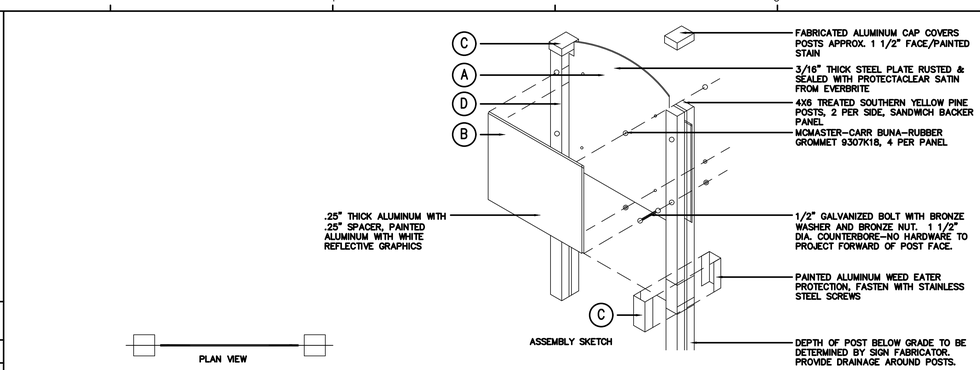
A2 CAST IN PLACE CONCRETE RETAINING WALL

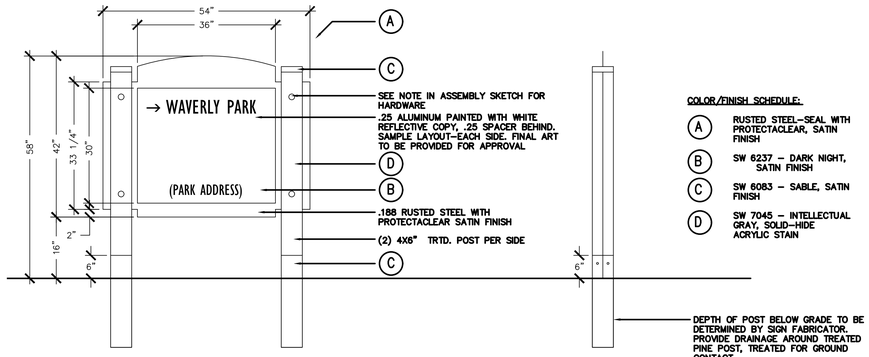
1"=1'-0"



B2 FIELD IDENTIFICATION SIGNAGE

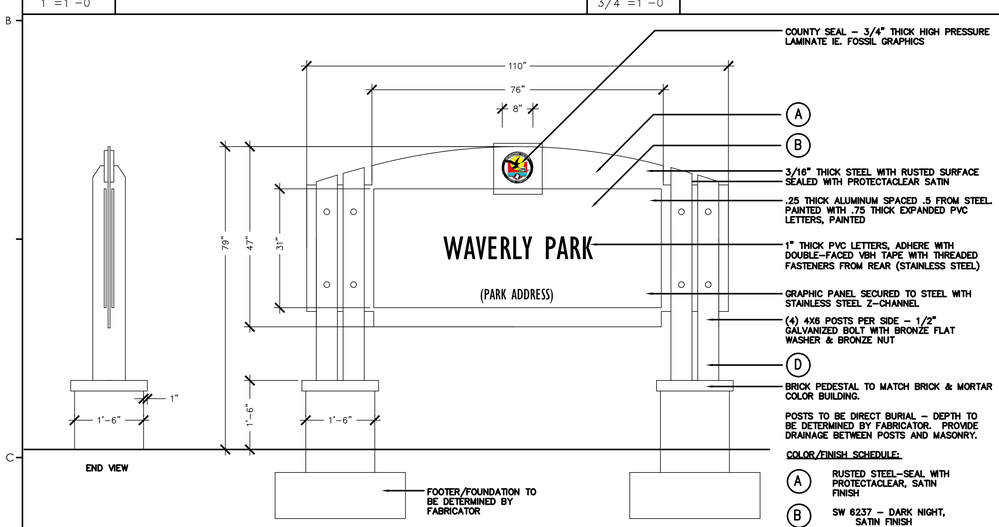
3/4"=1'-0"





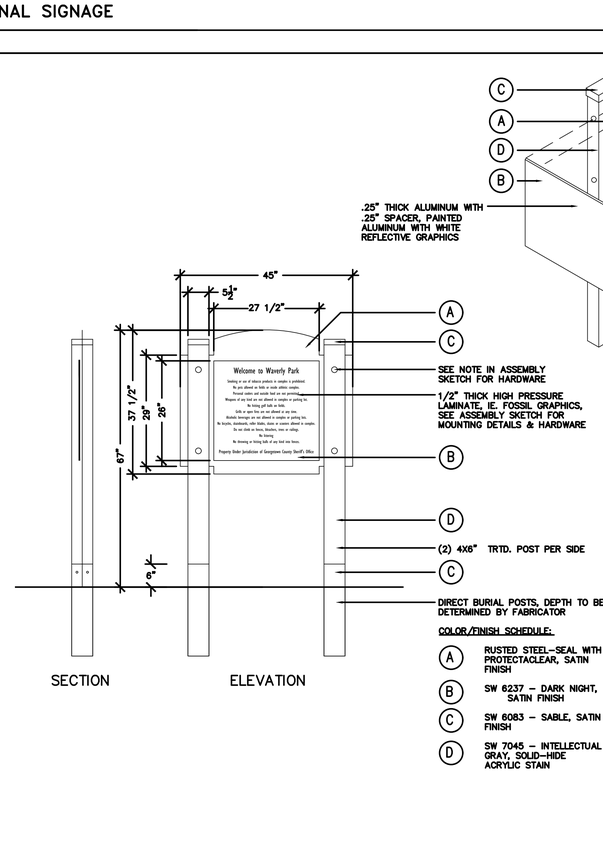
B3 DIRECTIONAL SIGNAGE

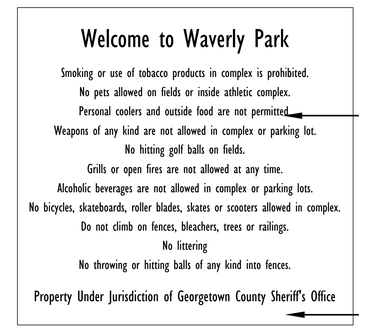
3/4"=1'-0"



C1 PARK IDENTIFICATION SIGNAGE

3/4"=1'-0"

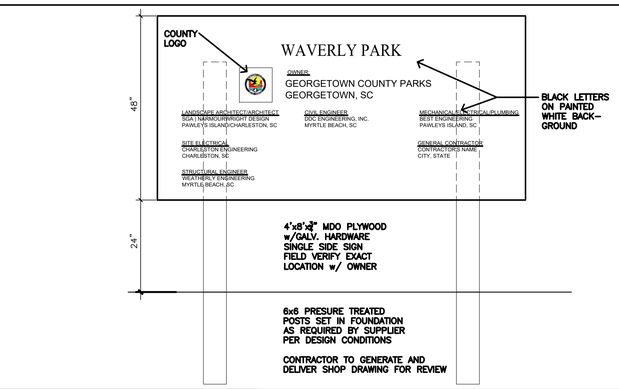




PARK RULES ENLARGEMENT

D3 PARK RULES SIGNAGE

3/4"=1'-0"



D1 PROJECT IDENTIFICATION SIGN

N.T.S.

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Pawleys Island, SC 29585
p 843.237.3421
www.sganwdesign.com

WAVERLY PARK

AT
WACCAMAW ELEMENTARY SCHOOL
1364 WAVERLY RD.
PAWLEY'S ISLAND, SC 29585

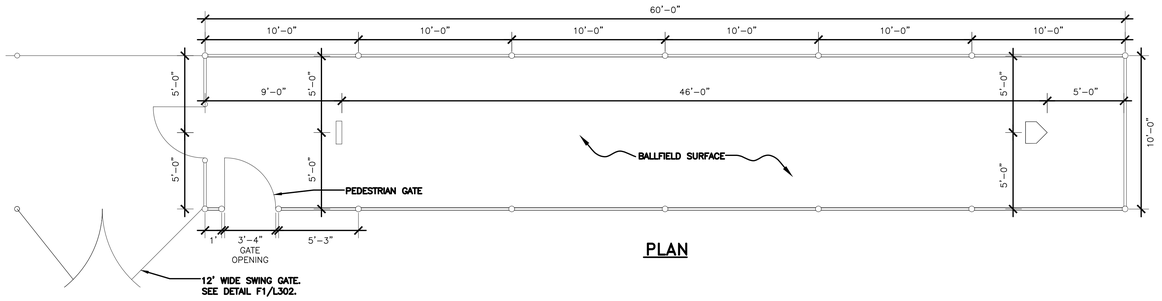
PROJECT NUMBER: 19-004-04
ISSUE DATE: 4/13/2021
DRAWN BY: PW / JW
CHECKED BY: PW / JW / MR

Bid Set

Revision Schedule		
#	Description	Date

LANDSCAPE CONSTRUCTION DETAILS

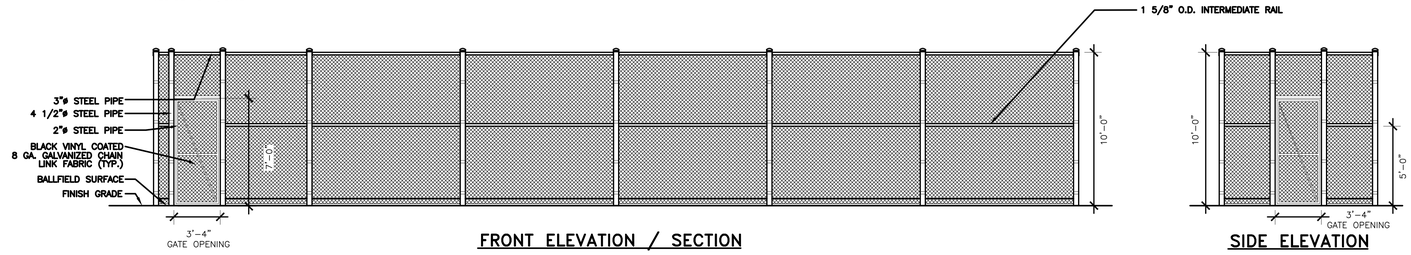
L303



PLAN

NOTES:

1. ALL FENCING, RAILS, POSTS AND COMPONENTS SHALL BE VINYL COATED BLACK.
2. SEE BACKSTOP DETAIL FOR ORIENTATION OF PITCHER'S WARM-UP AREA AND RELATED ENTRANCES.
3. PRACTICE PITCHING RUBBER AND HOME PLATE OWNER PROVIDED, OWNER INSTALLED.



FRONT ELEVATION / SECTION

SIDE ELEVATION

C1 | PITCHER WARM-UP

1/4"=1'-0"

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Revision Schedule		
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LANDSCAPE
CONSTRUCTION
DETAILS

L304

2 3 4 5

WETLAND

RETENTION POND

LIMIT OF WORK

LIMIT OF WORK

(1) QUEV
(6) SABM
(5) SABM
(1) QUEV
(5) SABM
(1) QUEV
(8) ILEV
(1) QUEV
(5) SABM
(1) QUEV
(1) QUEV
(6) SABM
(8) SABM
(1) QUEF
(1) QUEF
(8) ILEV
(8) SABM
(1) QUEF
(1) QUEF
(6) SABM
(1) QUEV
(1) QUEF
(8) SABM
(1) QUEF
(8) SABM
(8) ILEV
(1) QUEV
(8) ILEV
(1) QUEV
(5) SABM
(1) QUEV

(429 sf) CYNT
(1) QUEV
(1) QUEV
(404 sf) CYNT
(26) SA
(1) M
(3) SA
(5) SA
(3) LA
(14) LAGN
(5,853 sf) CYNT
(5,855 sf) CYNT
(7,454 sf) CYNT
(84,602 sf) CYND
(11,458 sf) CYND
(32,993 sf) CYNT
(32,991 sf) CYNT
(10,654 sf) CYND
(5,718 sf) CYND

9	10	11	12	13	14	15	16	17	18
1½" 45.3	1½" 41.1	1½" 44.4	1½" 33.3	1½" 44.4	1" 4.28	1½" 44.4	1½" 33.3	1½" 44.4	1½" 41.1

2(4")

FIELD 4

FIELD 1

MULTI–PURPOSE FIELD

SCHOOL PLAYGROUND (N.I.C.)

SEE L202 FOR ENLARGEMENT

MATCH-LINE IR-1
MATCH-LINE IR-2

MATCH-LINE IR-1
MATCH-LINE IR-3

Know what's below. Call before you dig.

SCALE 1" = 30'
0' 15' 30' 60'

SiteOne™ Project Services

www.projectservices.siteone.com

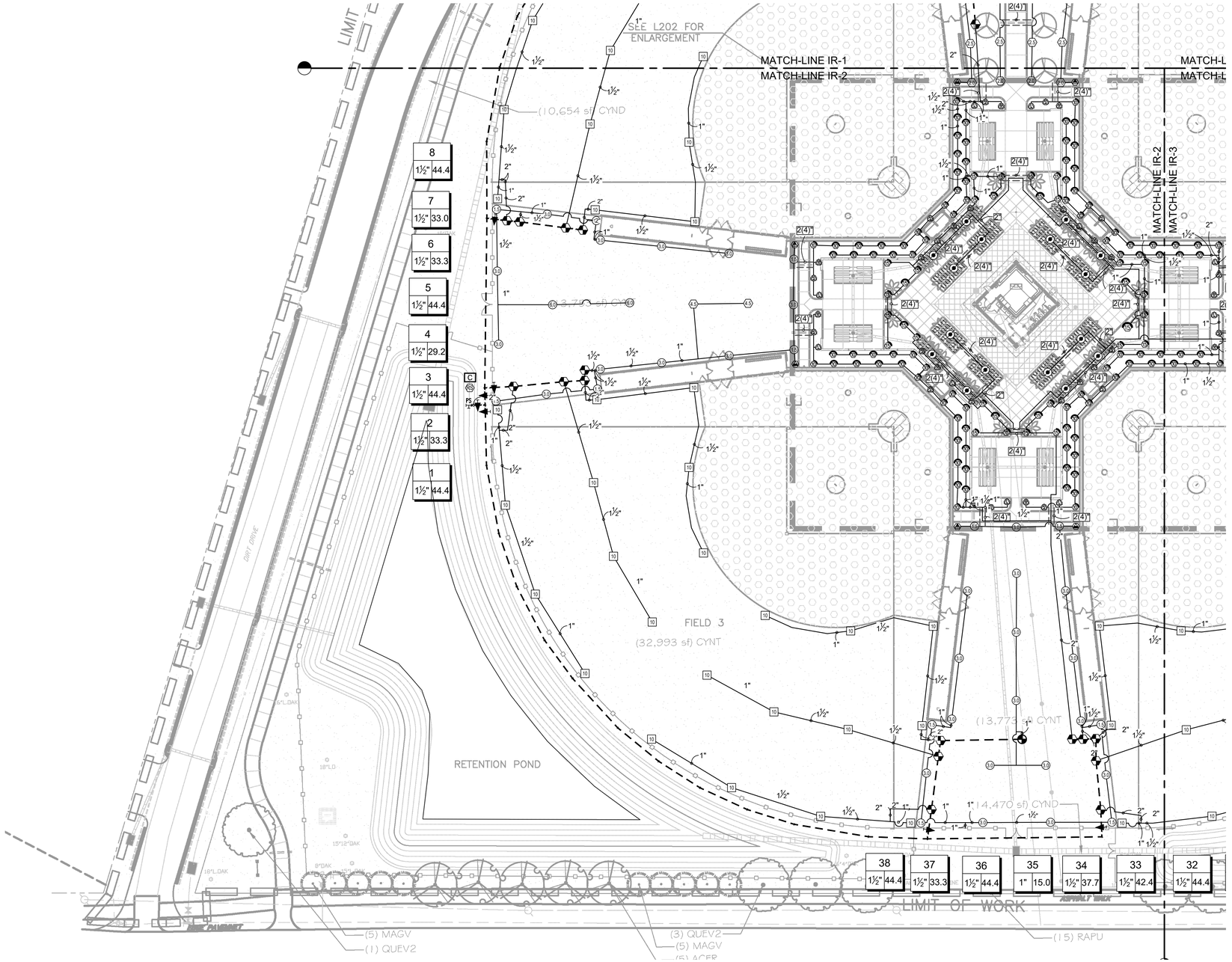
PROJECT NAME
WAVERLY PARK AT WACCAMAW ELEMENTARY
PAWLEYS ISLAND, SC 29585

Project Title
IRRIGATION PLAN

Project Number:	246927
Design Date:	03/16/2021
Drawn By:	CLC
Checked By:	
Drawing Scale:	1" = 30'

Revisions	Date
1.	03/20/2021
2.	03/30/2021
3.	
4.	
5.	
6.	
7.	
8.	

Sheet Number:
IR-1
Sheet: 1 OF 3



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WAVERLY PARK AT WACCAMAW ELEMENTARY

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5.	
6.	
7.	
8.	

Sheet Number:

IR-2

Sheet: 2 OF 3

811 Know what's below. Call before you dig.

SCALE 1" = 30'

0' 15' 30' 60'

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL	QTY
ES LCS RCS CS SS	HUNTER PROS-04 SPRAY HEAD 5' STRIP SPRAY	44
Q H F	HUNTER PROS-04 SPRAY HEAD 10' RADIUS	98
Q T H TT TQ F	HUNTER PROS-04 SPRAY HEAD 15' RADIUS	32
LST RST SST	HUNTER MP STRIP PROS-04 ROTATOR	7

SYMBOL	MANUFACTURER/MODEL	QTY
10	HUNTER I-25-04 ROTOR	88
1.5	HUNTER PGP-04 ROTOR	16
3.0	HUNTER PGP-04 ROTOR	33
6.0	HUNTER PGP-04 ROTOR	2
2.0	HUNTER PGP-04-LA ROTOR	14
2.5	HUNTER PGP-04-LA ROTOR	30
4.5	HUNTER PGP-04-LA ROTOR	6

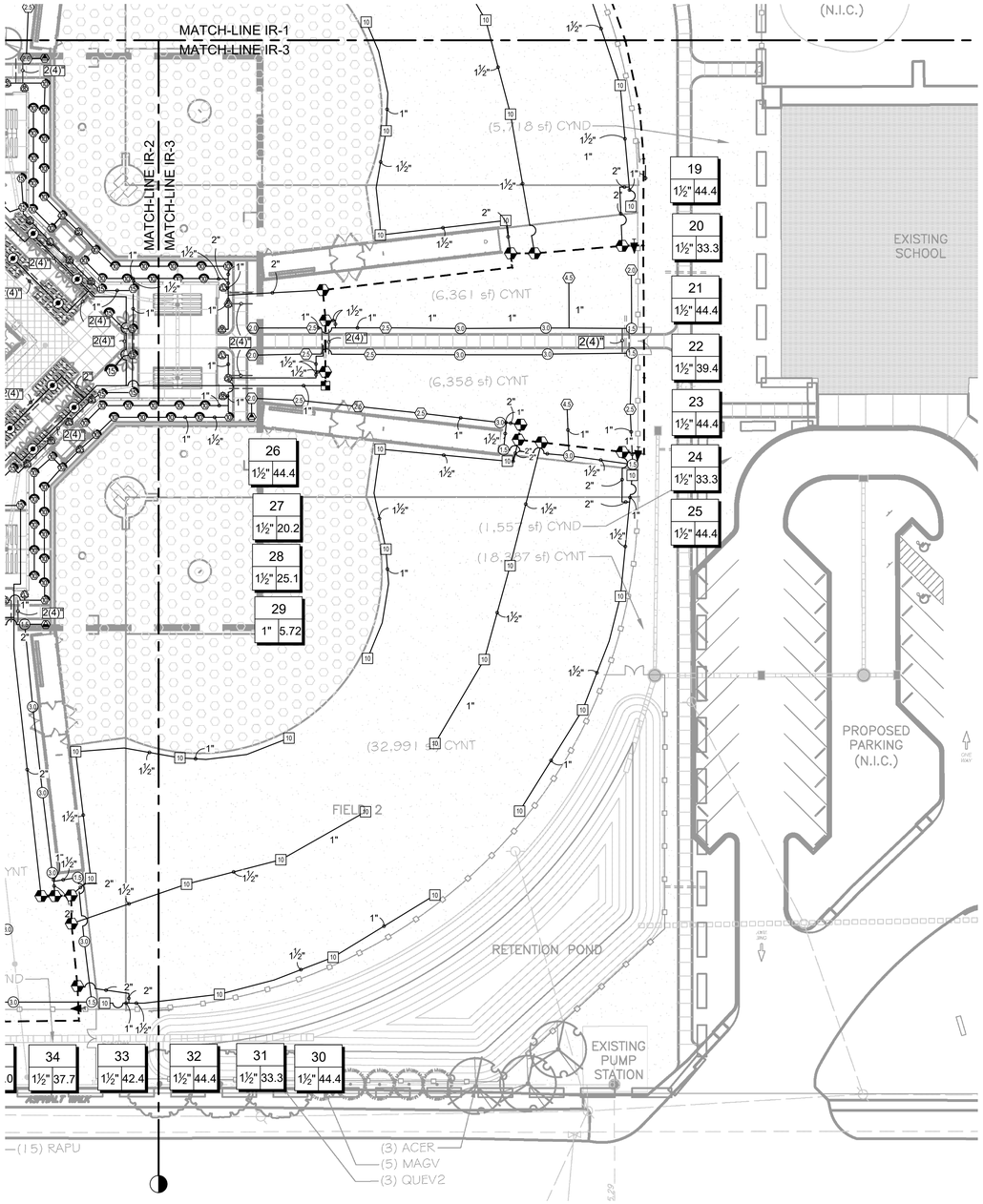
SYMBOL	MANUFACTURER/MODEL	QTY
	HUNTER PCZ-101-40 DRIP VALVE W/ ICD-100 DECODER 1"	2
	PIPE TRANSITION POINT	20
	AREA TO RECEIVE DRIPLINE HUNTER HDL-09-18-PC (24) (GRID PATTERN)	262.3 L.F.
	AREA TO RECEIVE DRIPLINE HUNTER HDL-09-18-PC (SERPENTINE PATTERN)	733.6 L.F.

SYMBOL	MANUFACTURER/MODEL	QTY
	HUNTER PGV-101 ELECTRIC VALVE W/ ICD-100 DECODER 1"	1
	HUNTER PGV-151 ELECTRIC VALVE W/ ICD-100 DECODER 1-1/2"	35
	BALL VALVE (MAINLINE SIZE)	11
C	HUNTER ACC2 DECODER CONTROLLER	1
RS	HUNTER RAIN-CLIK RAIN SENSOR	1
PS	PUMP STATION	1
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 1"	6,430 L.F.
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 1 1/2"	3,017 L.F.
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 2"	605.5 L.F.
	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21 2"	2,409 L.F.
	PIPE SLEEVE: PVC SCHEDULE 40 4"	600.0 L.F.

Valve Callout

IRRIGATION NOTES

1. IRRIGATION SYSTEM DESIGN BASED ON 50 GPM AT 75 PSI.
2. IRRIGATION DESIGN IS FROM THE POINT OF CONNECTION(POC)ONLY. THE DESIGN IS BASED ON GALLONS PER MINUTE(GPM)AND POUNDS PER SQUARE INCH(PSI)FURNISHED BY OTHERS.
3. IRRIGATION CONTRACTOR IS TO VERIFY POINT OF CONNECTION IN THE FIELD. INSTALLER IS TO CONFIRM THE MINIMUM DISCHARGE REQUIREMENTS OF THE POINT OF CONNECTION AS INDICATED ON THE LEGEND PRIOR TO INSTALLATION.
4. THE PRESSURE REQUIREMENT AT THE POINT OF CONNECTION IS BASED ON NO MORE THAN 5-FEET OF ELEVATION CHANGE IN THE AREAS OF IRRIGATION.
5. ALL PRODUCTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND ACCORDING TO LOCAL BUILDING, ELECTRICAL AND PLUMBING CODES.
6. IRRIGATION CONTRACTOR WILL ARRANGE INSPECTIONS REQUIRED BY LOCAL AGENCIES AND ORDINANCES DURING THE COURSE OF CONSTRUCTION AS REQUIRED. ALL WIRING TO BE PER LOCAL CODE. BACKFLOW PREVENTION PER LOCAL CODE.
7. LOCATION OF IRRIGATION COMPONENTS SHOWN ON DRAWINGS IS APPROXIMATE. ACTUAL PLACEMENT MAY VARY SLIGHTLY AS REQUIRED TO ACHIEVE FULL, EVEN COVERAGE.
8. ALL SPRINKLER HEADS SHALL BE INSTALLED PERPENDICULAR TO FINISH GRADES, EXCEPT AS OTHERWISE INDICATED.
9. INSTALL IRRIGATION MAINS WITH A MINIMUM 18" OF COVER BASED ON FINISH GRADES. INSTALL IRRIGATION LATERAL WITH A MINIMUM 12" OF COVER BASED ON FINISH GRADES.
10. PIPE LOCATIONS ARE DIAGRAMATIC. VALVES AND MAINLINE SHOWN IN PAVED AREAS ARE FOR GRAPHIC CLARITY ONLY.
11. THE IRRIGATION CONTRACTOR SHALL COMPLY WITH PIPE SIZES AS INDICATED.
12. ALL WIRE SPLICES OR CONNECTIONS SHALL BE MADE WITH APPROVED WATERPROOF WIRE CONNECTORS AND BE IN A VALVE OR SPLICE BOX.
13. ALL CONTROL WIRING DOWNSTREAM OF THE CONTROLLER IS TO BE 2-WIRE, UL APPROVED DIRECT BURY.
14. SURGE PROTECTION TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATION.
15. THE DESIGN IS BASED ON THE SITE INFORMATION AND/OR DRAWING SUPPLIED WITH THE DESIGN CRITERIA BEING SET(AREA TO BE IRRIGATED, EQUIPMENT MANUFACTURER AND MODEL TO BE USED, WATER SOURCE INFORMATION, ELECTRICAL POWER AVAILABILITY, ETC...). SITEONE LANDSCAPE SUPPLY BEARS NO RESPONSIBILITY OR LIABILITY FOR ANY ERRORS IN DESIGN OR INSTALLATION THAT ARISE DUE TO INACCURACIES IN THE ABOVE REFERENCED INFORMATION SUPPLIED TO SITEONE LANDSCAPE SUPPLY IN RELATION TO THIS PROJECT, UNLESS OTHERWISE NOTED.



REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION
1	PIPING AND EQUIPMENT SHOWN TO THE SIDE FOR CLARITY

811 Know what's below. Call before you dig.

SCALE 1" = 30'
0' 15' 30' 60'

SiteOne™ Project Services
www.projectservices.siteone.com

PROJECT NAME
WAVERLY PARK AT WACCAMAW ELEMENTARY
PAWLEYS ISLAND, SC 29585

Project Title
IRRIGATION PLAN

Project Number:	246927
Design Date:	03/16/2021
Drawn By:	CLC
Checked By:	
Drawing Scale:	1" = 30'

Revisions	Date
1.	03/20/2021
2.	03/30/2021
3.	
4.	
5.	
6.	
7.	
8.	

Sheet Number:
IR-3
Sheet: 3 OF 3

Pole	x-loc	y-loc	height	Elite N	Elite M	Elite W	Elite EW	Total	kw
A1	30	-62	60ft	1	1	2		4	3.9
A2	-62	30	60ft	1	1	2		4	3.9
B1	230	-10	70ft	1	6		1	8	7.7
B2	-10	230	70ft	1	6		1	8	7.7
Total				4	14	4	2	24	23.2

225' Baseball
119 points (25 infield, 94 outfield) at z=3, sp 20ft by 20ft
HORIZONTAL FOOTCANDLES

	Outfield	Infield
Average	33	55
Maximum	39	63
Minimum	26	49
Avg:Min	1.29	1.13
Max:Min	1.50	1.29
Coef Var	0.10	0.07
UnifGrad	1.28	1.20

Elite EW
GeoSport Elite LED 1000W
Light Loss Factor = 0.950
Watts per luminaire = 970
Number luminaires used = 2
kw these luminaires = 1.9

Elite W
GeoSport Elite LED 1000W
Light Loss Factor = 0.950
Watts per luminaire = 976
Number luminaires used = 4
kw these luminaires = 3.9

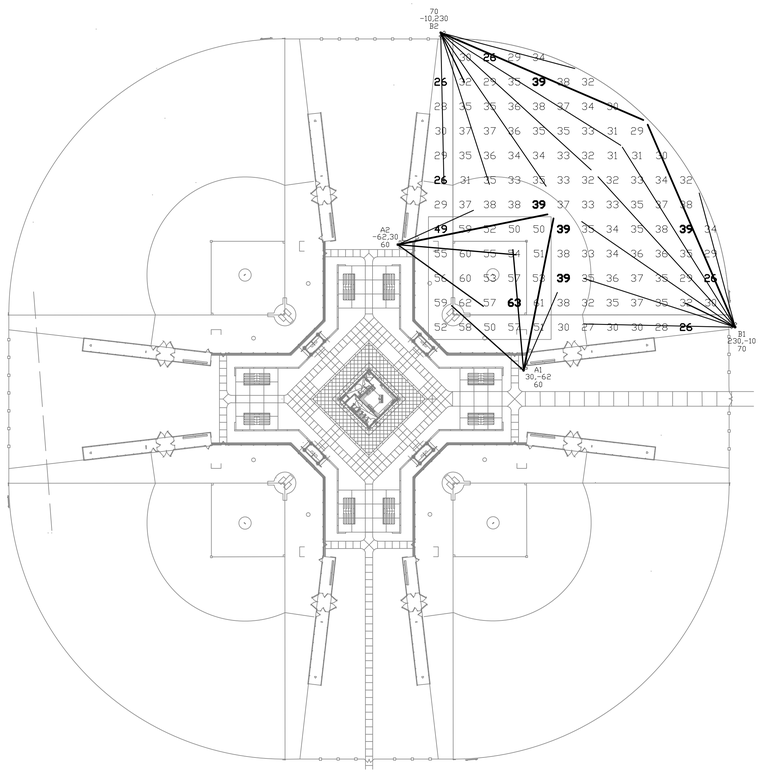
Elite M
GeoSport Elite LED 1000W
Light Loss Factor = 0.950
Watts per luminaire = 965
Number luminaires used = 14
kw these luminaires = 13.5

Elite N
GeoSport Elite LED 1000W
Light Loss Factor = 0.950
Watts per luminaire = 957
Number luminaires used = 4
kw these luminaires = 3.8

ELECTRICAL NOTES

1. LIGHTING OF FEILD MUST MEET MINIMUM OF INDICATED PHOTOMETRICS FOR EACH FEILD. PHOTOMETRICS ARE BASED ON GEOSPORT LED LIGHTING FIXTURES. SIMILAR LIGHTING FIXTURES MNUFACTURED BY HUBBLE OR MUSCO MEETING EQUAL PHOTOMETRICS WOULD BE CONSIDERED AS EQUALS.

TYPICAL OF ALL 4 FIELDS



0 25' 50' 100'
1" = 50'-0"

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www.sganwdesign.com

Charleston Engineering
125 B Wappoo Creek Dr.
Charleston, SC 29412
843-762-4242
Mechanical, Plumbing & Electrical

WAVERLY PARK

AT
WACCAMAW ELEMENTARY SCHOOL
1364 WAVERLY RD.
PAWLEY'S ISLAND, SC 29585

PROJECT NUMBER: 2028
ISSUE DATE: 4/20/2021
DRAWN BY: HARVEY
CHECKED BY: DEDEN

Permit Drawings

Revision Schedule		
#	Description	Date

CHARLESTON ENGINEERING
No. C00584
CERTIFICATE OF AUTHORIZATION
SOUTH CAROLINA

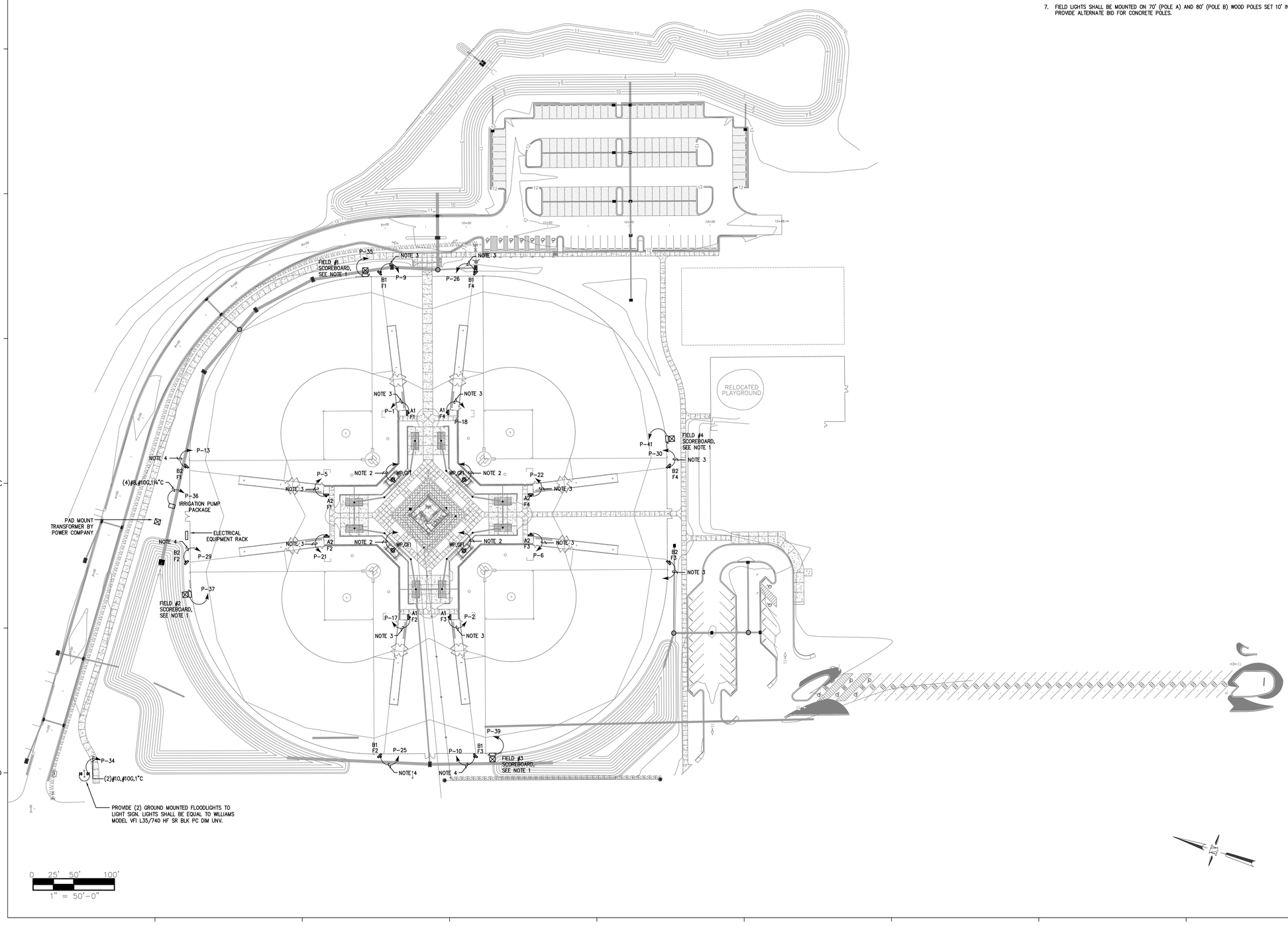
No. 10079
REGISTERED PROFESSIONAL ENGINEER
ROBB D. DEDEN
SOUTH CAROLINA
4/20/2021

PHOTOMETRIC PLAN

ES000

ELECTRICAL NOTES

1. PROVIDE 2 KVA, NEMA 4X, 277 – 120 VOLT TRANSFORMER MOUNTED ON BACK OF SCOREBOARD. PROVIDE NEMA 3R, SINGLE POLE, 30 AMP DISCONNECT SWITCH AHEAD OF TRANSFORMER AND HOMERUN (2) #10, #10 GROUND IN 1¼" CONDUIT TO PANEL P. CONNECT SCOREBOARD PER MANUFACTURER'S RECOMMENDATIONS. DATA TO SCOREBOARD IS WIRELESS.
2. PROVIDE GFI, WEATHERPROOF CONVENIENCE QUAD RECEPTACLE AT BACKSTOP FOR SCOREBOARD CONTROLLER. HOMERUN WITH (2)#10, #10 GROUND IN 1" CONDUIT TO SINGLE POLE 20 AMP CIRCUIT BREAKER IN 120/ 240 VOLT PANEL LOCATED IN CONCESSION BUILDING. EXACT LOCATION TO BE DETERMINED BY ARCHITECT.
3. HOMERUN WITH (2) #10, #10 GROUND IN 1¼" CONDUIT.
4. HOMERUN WITH (2) #8, #10 GROUND IN 1¼" CONDUIT.
5. PROVIDE SCOREBOARD. SCOREBOARD SHALL BE BY ELECTRO-MECH SCOREBOARD COMPANY MODEL LX1050 (6'X3') WITH BUILT-IN ID PANEL & SL-400 WIRELESS CONTROL SYSTEM. MOUNT SCOREBOARD PER MANUFACTURER'S RECOMMENDATIONS. SALES REP CONTACT IS JOHN BRAECKELAERE, (800)-445-7846
6. PROVIDE CONTROL WIRING FROM CONTROL PANEL TO 4 SWITCHES (ONE FOR EACH FIELD) TO BE LOCATED IN CONCESSION BUILDING. PROVIDE LABEL FOR EACH SWITCH.
7. FIELD LIGHTS SHALL BE MOUNTED ON 70' (POLE A) AND 80' (POLE B) WOOD POLES SET 10' IN GROUND. PROVIDE ALTERNATE BID FOR CONCRETE POLES.



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Permit Drawings

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No. C00584
CERTIFICATE OF AUTHORIZATION

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT
No. 10079
ROBIN D. DEDEN
4/20/2021

ELECTRICAL SITE PLAN

ES100

ELECTRICAL SPECIFICATIONS

PART 1 – GENERAL

1.01 SCOPE:
- A. FURNISH AND INSTALL A COMPLETELY WIRED AND OPERATIONAL ELECTRICAL SYSTEM AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN, INCLUDING BUT NOT LIMITED TO THESE MAJOR ITEMS.
  1. LIGHTING FIXTURES AS INDICATED AND SPECIFIED ON PLANS.
  2. ELECTRICAL PANELS, CONTROLS, SERVICE, DISCONNECTS, CONDUIT, WIRING, ETC., FOR ALL OUTLETS AND EQUIPMENT.

1.02 CODES, REGULATIONS AND STANDARDS:
- A. THE INSTALLATION SHALL COMPLY WITH APPLICABLE LOCAL AND STATE CODES AND ORDINANCES, INCLUDING THE REGULATIONS OF THE FOLLOWING:
  1. AMERICANS WITH DISABILITIES ACT – 1990 W/ 2008 AMENDMENT
  2. INTERNATIONAL BUILDING CODE – 2018
  3. NATIONAL ELECTRIC CODE – 2017
  4. LOCAL BUILDING CODES AND ORDINANCES
- B. THE FOLLOWING INDUSTRY STANDARDS, SPECIFICATIONS ARE ALSO MINIMUM REQUIREMENTS:
  1. THE NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION STANDARDS (NEMA).
  2. THE MANUFACTURER'S RECOMMENDATION.
  3. UNDERWRITER LABORATORIES INCORPORATED STANDARDS (UL).
  4. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI).

1.03 PERMITS
- A. OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND INSPECTION FEES.

1.04 INSPECTION OF SITE:
- A. PRIOR TO SUBMITTING A BID, VISIT THE SITE OF THE PROPOSED CONSTRUCTION TO BECOME THOROUGHLY ACQUAINTED WITH EXISTING UTILITIES, WORKING CONDITIONS, ETC. ALLOWANCE WILL NOT BE MADE FOR NONCOMPLIANCE WITH THIS CONDITION AFTER BIDDING.

1.05 CLEAN–UP:
- A. KEEP THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIAL, OR RUBBISH CAUSED BY EMPLOYEES OR WORK UNDER THIS DIVISION OF THE SPECIFICATION. AT THE COMPLETION OF THE WORK, REMOVE ALL SURPLUS MATERIALS, TOOLS, ETC., AND LEAVE THE PREMISES "BROOM–CLEAN". REMOVE ALL TEMPORARY WIRING UPON PROJECT COMPLETION.

1.06 DRAWINGS:
THE DRAWINGS INDICATE THE GENERAL ARRANGEMENT AND LOCATIONS OF THE ELECTRICAL WORK. DATA PRESENTED ON THE THESE DRAWINGS ARE AS ACCURATE AS PLANNING CAN DETERMINE, BUT FIELD VERIFICATION OF ALL DIMENSIONS, LOCATIONS, LEVELS, ETC., TO SUIT FIELD CONDITIONS IS REQUIRED. REVIEW ALL ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS AND ADJUST ALL WORK TO MEET THE REQUIREMENTS OF CONDITIONS SHOWN. THE ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER ALL OTHER DRAWINGS. DISCREPANCIES BETWEEN DIFFERENT PLANS, OR BETWEEN DRAWINGS AND SPECIFICATIONS, OR REGULATIONS AND CODES GOVERNING THE INSTALLATION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITING BEFORE THE DATE OF BID OPENING. IF DISCREPANCIES ARE NOT REPORTED, ID THE GREATER QUANTITY OR BETTER QUALITY, AND APPROPRIATE ADJUSTMENTS WILL BE MADE AFTER CONTRACT AWARD.

1.07 COORDINATION WITH OTHER TRADES:
- A. COOPERATE WITH OTHER TRADES SO THAT INSTALLATION OF ELECTRICAL OUTLETS AND EQUIPMENT WILL BE PROPERLY COORDINATED. CHECK CONDUIT, FIXTURE, AND OTHER EQUIPMENT LOCATIONS WITH THE OTHER TRADES TO AVOID CONFLICT.

1.08 UTILITY COMPANIES
- A. COORDINATE ALL INCOMING SERVICES WITH RESPECTIVE UTILITY COMPANIES. INCLUDE ALL CHARGES IN BID.

PART 2 – PRODUCTS AND EXECUTION

2.01 MATERIALS:
- A. ALL MATERIAL SHALL BE NEW AND OF QUALITY AS SPECIFIED ON THE PLANS OR SPECIFICATIONS AND MUST CARRY THE UNDERWRITER'S LABORATORIES APPROVAL COVERING THE PURPOSE FOR WHICH THEY ARE USED, IN ADDITION TO MEETING ALL REQUIREMENTS OF THE CURRENT APPLICABLE CODES AND REGULATIONS.

2.02 CONDUIT:
- A. USE SCHEDULE 80 PVC WHERE EXPOSED AND TO 24" BELOW GRADE. CONDUIT BELOW 24" MAY BE SCHEDULE 40 PVC.
- B. ALL EMPTY CONDUIT SYSTEMS SHALL HAVE 200 LB. TEST PULL CORD TO FACILITATE INSTALLATION OF FUTURE WIRE..

2.03 CONDUCTORS:
- A. UNLESS OTHERWISE SPECIFIED, ALL WIRE SHALL BE TYPE THW, THWN OR XHHW COPPER. THE WIRES SHALL BE COLOR CODED INDICATING PHASE & VOLTAGE. UNLESS OTHERWISE REQUIRED BY LOCAL ORDINANCES, GROUND WIRES SHALL BE GREEN, NEUTRAL WIRES WIRES SHALL BE WHITE. CONDUCTORS SHALL BE #12 AWG, UNLESS OTHERWISE INDICATED.
- B. DO NOT INSTALL CONDUCTORS UNTIL CONDUIT SYSTEM IS COMPLETE. USE MINERALAC #100 OR EQUIVALENT AS A LUBRICANT TO FACILITATE THE INSTALLATION OF THE CONDUCTORS IN THE CONDUIT SYSTEM.
- C. ALL BRANCH CIRCUITS SHALL CONTAIN A GROUND CONDUCTOR. ALL 3 PH BRANCH CIRCUITS SHALL CONSIST OF 3 PHASE CONDUCTORS AND GROUND CONDUCTOR. WHEN TWO OR THREE SINGLE PHASE CIRCUITS ARE SHOWN TO BE COMBINED, THESE CIRCUITS MAY SHARE A SINGLE NEUTRAL.

2.04 WIRING DEVICES:
- A. 20A, 125 VOLT, IVORY COLOR. SPECIFICATION GRADE.

2.05 PANELBOARDS:
- A. PROVIDE BRANCH CIRCUIT PANELBOARD(S) AS SHOWN ON DRAWINGS AND AS SPECIFIED HEREIN. PROVIDE TIN–PLATED ALUMINUM BUS BARS. MULTIPLE POLE BREAKERS SHALL HAVE HANDLE TIES SO ALL POLES ACT SIMULTANEOUSLY. MAIN BREAKER SHALL BE CENTER MOUNTED. EQUIPMENT RATINGS SHALL EXCEED AVAILABLE FAULT CURRENT (PANELS MAY BE SERIES FAULT RATED). PROVIDE TYPED CIRCUIT DIRECTORY UNDER PLASTIC COVER IN EACH PANEL DOOR. CIRCUIT BREAKERS SHALL BE SWITCH RATED BOLT–ON TYPE. BALANCE FINAL LOADS WITHIN 10% OF ALL THREE PHASES. MOUNT PANELS 6'–6" TO TOP.

2.06 LIGHTING FIXTURES:
- A. PROVIDE LIGHTING FIXTURES, COORDINATE PROCUREMENT OF THESE FIXTURES WITH OWNER'S REPRESENTATIVE IN A TIMELY MANNER TO MEET JOB SCHEDULES. RECEIVE, UNCRATE, INSPECT, STORE AND PROTECT ALL MATERIAL. INSTALL AND LAMP FIXTURES AS NOTED ON DRAWINGS.
- B. SUBMIT ALL LIGHTING FIXTURES TO OWNER FOR APPROVAL.

2.08 LABELING
- A. PROVIDE NAMEPLATES TO IDENTIFY PANELBOARDS, DISCONNECT SWITCHES, STARTERS, AND OTHER MAJOR EQUIPMENT.

2.09 GUARANTEE
- A. GUARANTEE ALL MATERIAL FURNISHED AND ALL WORKMANSHIP PERFORMED FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK. ANY DEFECTS DEVELOPING WITHIN THIS PERIOD, TRACEABLE TO MATERIAL FURNISHED AS PART OF THIS SECTION OR WORKMANSHIP PERFORMED HEREUNDER, SHALL BE CORRECTED AT NO EXPENSE TO THE OWNER.

2.10 CONDITIONS PRECEDENT TO FINAL ACCEPTANCE:
- A. UPON COMPLETION OF PROJECT, PREPARE AND SUBMIT ONE COMPLETE SET OF ELECTRICAL RECORD DRAWING OF "AS–BUILT" CONDITIONS SHOWING ALL WIRING AS ACTUALLY INSTALLED. PRINTS SHALL ALSO SHOW, AS INDICATED BY MARKED–UP NOTATIONS, ALL DEVIATIONS AND CHANGES OF WIRING AND CIRCUIT NUMBER FROM THE ORIGINAL CONTRACT DRAWINGS.

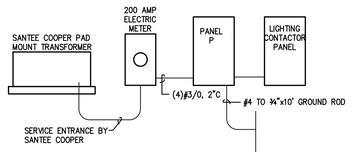
PANEL SCHEDULE P

277/480 VOLT, 3 PHASE, 4 WIRE, 22,000 AIC, 200 A MAIN CIRCUIT BREAKER — NEMA 4

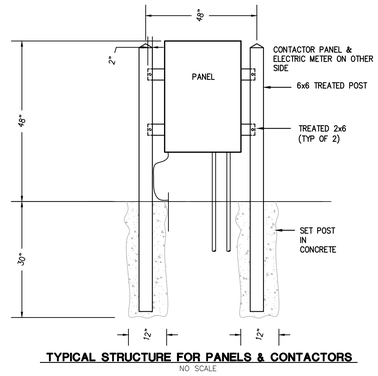
CKT	DESCRIPTION	VA	TRIP	KVA A	KVA B	KVA C	TRIP	VA	DESCRIPTION	CKT
1	FIELD #1 POLE A1	1950	20/2	3.90			20/2	1950	FIELD #3 POLE A1	2
3	--	1950	--		3.90		--	1950	--	4
5	FIELD #1 POLE A2	1950	20/2			3.90	20/2	1950	FIELD #3 POLE A2	6
7	--	1950	--	3.90			--	1950	--	8
9	FIELD #1 POLE B1	3850	30/2		7.70		30/2	3850	FIELD #3 POLE B1	10
11	--	3850	--			7.70	--	3850	--	12
13	FIELD #1 POLE B2	3850	30/2	7.70			30/2	3850	FIELD #3 POLE B2	14
15	--	3850	--		7.70		--	3850	--	16
17	FIELD #2 POLE A1	1950	20/2			3.90	20/2	1950	FIELD #4 POLE A1	18
19	--	1950	--	3.90			--	1950	--	20
21	FIELD #2 POLE A2	1950	20/2		3.90		20/2	1950	FIELD #4 POLE A2	22
23	--	1950	--			3.90	--	1950	--	24
25	FIELD #2 POLE B1	3850	30/2	7.70			30/2	3850	FIELD #4 POLE B1	26
27	--	3850	--		7.70		--	3850	--	28
29	FIELD #2 POLE B2	3850	30/2			7.70	30/2	3850	FIELD #4 POLE B2	30
31	--	3850	--	7.70			--	3850	--	32
33	CONTROL POWER	100	15/1		0.20		20/1	100	SIGN FLOOD LIGHT	34
35	FIELD #1 SCORE BOARD	100	15/1			1.77	15/3	1666	IRRIGATION PUMP	36
37	FIELD #2 SCORE BOARD	100	15/1	1.77			--	1666	--	38
39	FIELD #3 SCORE BOARD	100	15/1		1.77		--	1666	--	40
41	FIELD #4 SCORE BOARD	100	15/1			0.10			SPACE	42

TOTAL CONNECTED KVA 98

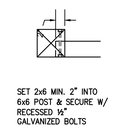
TOTAL CONNECTED AMPS 118



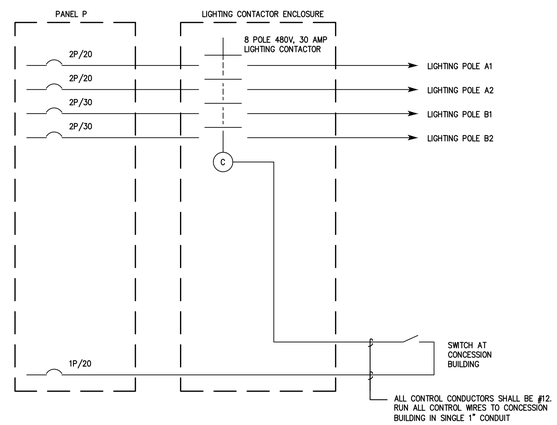
ELECTRICAL RISER DIAGRAM
NO SCALE



TYPICAL STRUCTURE FOR PANELS & CONTACTORS
NO SCALE



6x6 POST DETAIL
NO SCALE



LIGHTING CONTROL DIAGRAM (TYP EACH FIELD)
NO SCALE

SOUTH CAROLINA — CHARLESTON ENGINEERING No. C00584 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — PROFESSIONAL ENGINEER — No. 10079 — JOHN D. DEDEN — 4/20/2021

SGA
NarmourWright
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8263 Ocean Highway
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Charleston, SC 29412
843-762-4242
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WAVERLY PARK

AT
WACCAMAW ELEMENTARY SCHOOL
1364 WAVERLY RD.
PAWLEY'S ISLAND, SC 29585

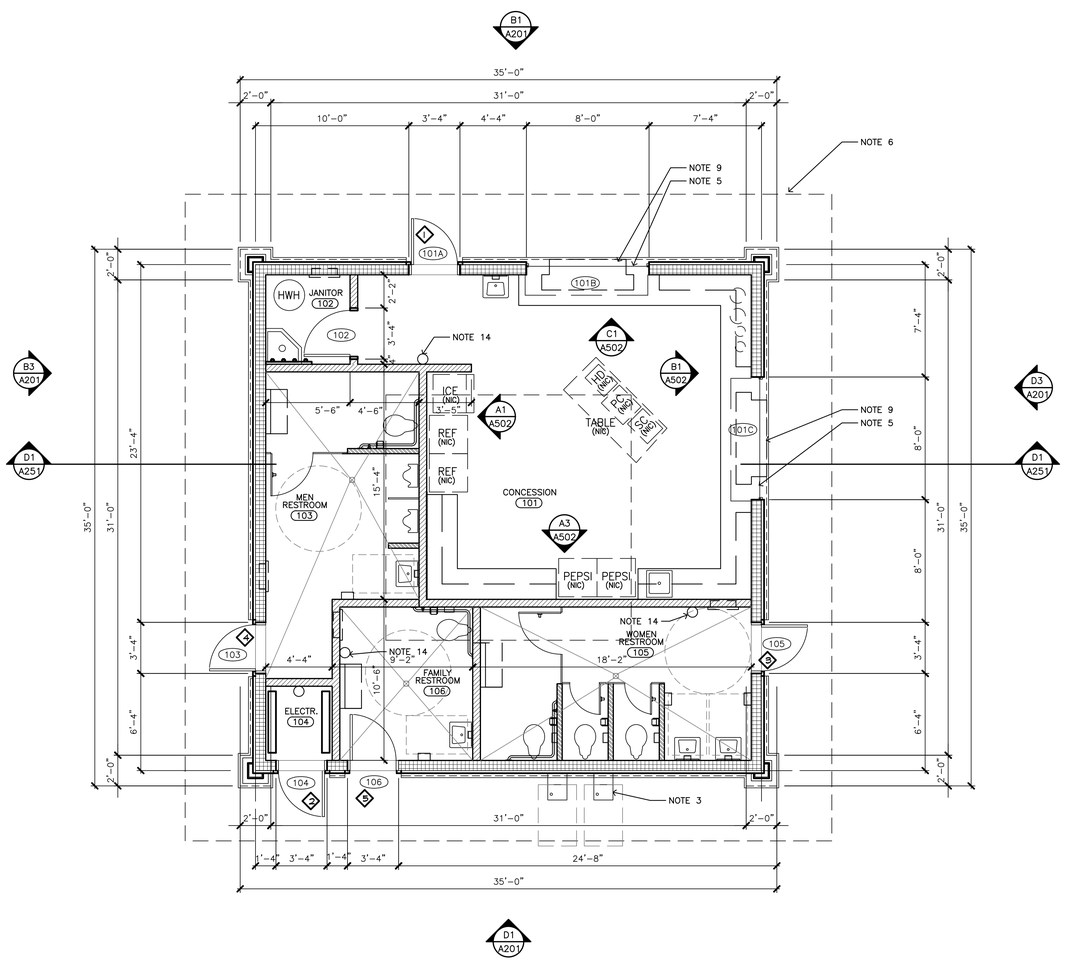
PROJECT NUMBER: 2028
ISSUE DATE: 4/20/2021
DRAWN BY: HARVEY
CHECKED BY: DEDEN

Permit Drawings

Revision Schedule		
#	Description	Date

ELECTRICAL SPECS. & SCHEDS.

ES200



C1 FLOOR PLAN - CONCESSION
1/4" = 1'-0"

REFER TO A501 FOR ENLARGED RESTROOM PLANS, INCLUDING DIMENSIONS AND ACCESSORIES.

GENERAL NOTES

A. ALL EXTERIOR DIMENSIONS ARE TO FACE OF MASONRY, FACE OF STUD, COLUMN CENTERLINE, U.N.O.
B. ALL DOORS & WINDOWS ARE DIMENSIONED TO THE MASONRY OPENINGS. REFER TO MANUFACTURER'S DATA FOR OVERALL ROUGH OPENING REQUIREMENTS FOR EACH TYPE OF DOOR & WINDOW.
C. ALL INTERIOR DIMENSIONS ARE TO FACE OF MASONRY U.N.O.
D. WINDOW DISTRIBUTOR & THEREFORE WINDOW MANUFACTURER ARE RESPONSIBLE FOR PROVIDING WINDOWS AND GLAZING PER DESIGN CRITERIA (SEE STRUCTURAL) AND ALL APPLICABLE CODES.
E. ALL EXTERIOR EXPOSED WOOD TO BE PRESSURE TREATED PER INDUSTRY STANDARDS & REQUIREMENTS.
F. ALL EXPOSED EXTERIOR WOOD SHALL HAVE TRANSPARENT FINISH EXCEPT PAVILION COLUMNS. ALL EXPOSED WOOD STRUCTURAL MEMBERS AND DECKING, LOUVERS, AND WOOD TRIM FOR TRANSPARENT FINISH SHALL BE THE SAME SPECIES.
G. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND CONDITIONS AND NOTIFY ARCHITECT OF ANY POSSIBLE CONFLICTS PRIOR TO INITIATING ANY WORK IN QUESTION.
H. ALL GENERAL CONTRACTORS AND SUB CONTRACTORS ARE TO REVIEW ARCHITECTS DRAWINGS & SPECIFICATIONS AS WELL AS ENGINEER'S DRAWINGS & SPECIFICATIONS AND COORDINATE EACH WITH THEIR SPECIFIC FIELD. REFER ANY QUESTIONS OR CONFLICTS TO ARCHITECT DURING BID & NEGOTIATION PROCESS WITHIN THE REQUIRED TIME FOR PROPER RESPONSE AND INCLUSION OF ANSWERS AND REVISIONS IF ANY, INTO THE BID PROPOSAL. ALL QUESTIONS/ANSWERS SHALL OCCUR AND BE RESOLVED BEFORE BID OPENING. GENERAL CONTRACTOR, OR SUBCONTRACTOR, OR ANY VENDOR WHO IS PROVIDING ANY MATERIAL AND/OR SYSTEM FOR THIS PROJECT SHALL SIGN OFF ON THE FORM IN THE BID DOCUMENTS SPECIFICALLY NOTING THAT ALL CONSTRUCTION DOCUMENTS (DRAWINGS AND SPECIFICATIONS) WERE REVIEWED AND COMPLIANCE TO IT IS INCLUDED IN THEIR BID PROPOSAL.
I. WHEN DRAWINGS AND SPECIFICATIONS DO NOT AGREE, ARCHITECT SHALL DECIDE WHICH IS CORRECT AND TO BE FURNISHED, SUPPLIED AND OR INSTALLED UNDER THIS CONTRACT. CONTRACTOR SHALL INCLUDE IN HIS BID THE MOST RESTRICTIVE OR COSTLY ALTERNATIVE.
J. GENERAL CONTRACTOR SHALL VERIFY THE REQUIREMENTS FOR THE NEED OF THE WALL BLOCKING FOR INSTALLATION OF ALL EQUIPMENT AND FURNISHING. GENERAL CONTRACTOR SHALL ALLOW FUNDS FOR ALL ANTICIPATED BLOCKING AND INCLUDE IT IN THE PUBLISHED FINAL BID SUM.

NOTES

1. DASHED LINE INDICATES WALL OR PORCH STRUCTURE BELOW.
2. SOLID LINE INDICATES EAVE AND RAKE PROJECTIONS AND VALLEYS AND RIDGES.
3. DRINKING FOUNTAINS – SEE PLUMBING.
4. VENDING MACHINES LOCATION. VENDING MACHINES ARE NOT IN CONTRACT. ONLY ELECTRICAL AND PLUMBING CONNECTIONS TO BE PROVIDED IN THIS CONTRACT.
5. ROLLING COUNTER SHUTTER – SEE SPECS.
6. LINE OF ROOF ABOVE.
7. LINE OF FLOOR SLAB EXTENTS.
8. LINE OF WALL BASE BELOW.
9. THROUGH-WALL HVAC UNIT – SEE MECHANICAL.
10. CONTROL JOINT (CJ) IN THE CONCRETE SLAB – SEE STRUCTURAL FOR ALL LOCATIONS AND REQUIREMENTS. FIELD COORDINATE ALTERNATE LOCATIONS WITH ARCHITECT.
11. NOT USED.
12. NOT USED.
13. SPLIT-FACE CMU BASE ENDS AT THE CASED OPENING AS SHOWN.
14. PROVIDE PORTABLE FIRE EXTINGUISHER – LARSEN'S MFG CO: MP5 WITH 1521 BRACKET, OR APPROVED EQUAL. MOUNT AT 48" AFF. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
15. SEE STRUCTURAL FOR BRACKET AND BLOCKING ATTACHMENT & THROUGH BOLT AT EACH BRACKET. BLOCKING FOR ATTACHMENT AT THE ROOF EAVES TO BE CONTINUOUS BETWEEN ALL EXPOSED ENDS OF RAFTERS AND OUTRIGGERS AT ALL EAVES REGARDLESS IF THERE IS BRACKET PRESENT OR NOT.
16. STAINLESS STEEL WRAP TO BE CONTINUOUS AND SEAMLESS AROUND EXTERIOR AND INTERIOR PORTIONS OF THE COUNTER AS SHOWN.
17. DO NOT EXTEND PLYWOOD CEILING PANELS INTO ELECTRICAL 104 OR JANITOR 102.
18. USE POWDER ACTUATED FASTENERS OR SELF TAPPING SCREWS TO ACCOMMODATE BASE MATERIAL THICKNESS AT COLUMN TO ATTACH BLOCKING TO STEEL COLUMN– USE IT AS OFTEN AS EACH SINGLE LOCATION REQUIRES.
19. PTWD KDAT TRIM TOP EDGE TO BE CHAMFERED 3/8" MIN. AND TO BE MITERED AT ALL CORNERS.

ROOM SIGN

1 NO ADMITTANCE. EMPLOYEES ONLY	3 WOMENS	3 FAMILY
2 ELECTRICAL NO ADMITTANCE. EMPLOYEES ONLY	4 MENS	

SIGN PLAQUES TO BE PROVIDED FOR EACH DESIGNATED ROOM AND FASTENED ON THE DOOR OF THE ROOM. EACH SIGN SHALL BE STANDARD SIZED AND CONSTRUCTED PER BUILDING CODE REQUIREMENTS AS WELL AS PER ADAAG (ADA Accessibility Guidelines for Buildings and Facilities).

WALL LEGEND

8" CMU - EXTERIOR WALL TO BE TERMINATED @ 10'-0" A.F.F..

6" CMU - INTERIOR WALL TO BE TERMINATED @ 10'-0" A.F.F.

4" CMU - INTERIOR WALL TO BE TERMINATED @ 8'-0" A.F.F.

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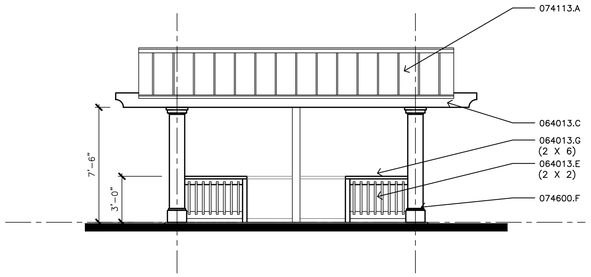
PROJECT NUMBER:
19-004-04
ISSUE DATE:
4/13/2021
DRAWN BY: PW / JW
CHECKED BY: PW / JW / MR

Bid Set

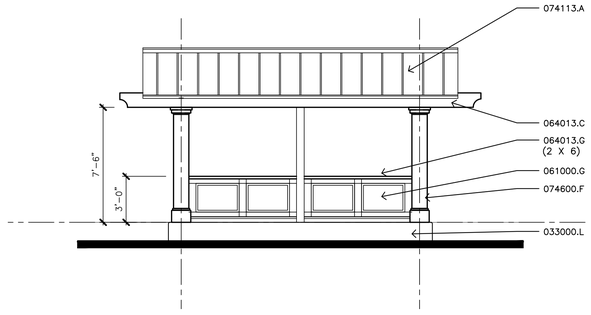
Revision Schedule		
#	Description	Date

FLOOR PLAN
CONCESSION

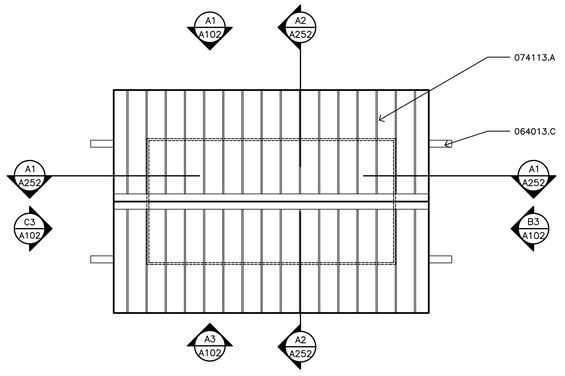
A101



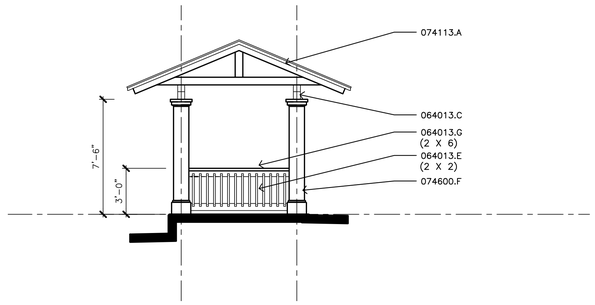
A1 NORTH ELEVATION - SCORE TOWER
1/4" = 1'-0"



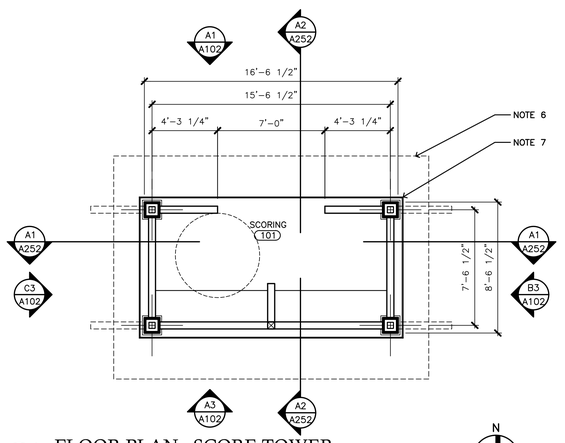
A3 SOUTH ELEVATION - SCORE TOWER
1/4" = 1'-0"



B1 ROOF PLAN - SCORE TOWER
1/4" = 1'-0"



B3 EAST ELEVATION - SCORE TOWER
1/4" = 1'-0"



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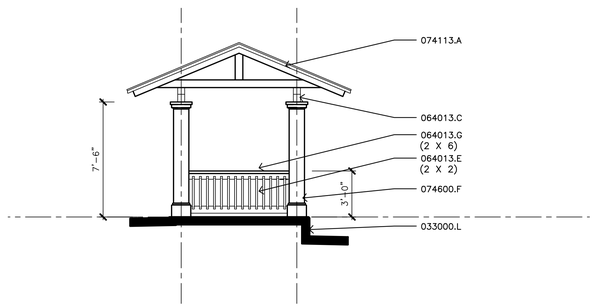

C3 WEST ELEVATION - SCORE TOWER
1/4" = 1'-0"

MATERIALS KEYING LEGEND

SECTION	042000	UNIT MASONRY
	042000.A	FACE BRICK
SECTION	061000	ROUGH CARPENTRY
	061000.G	PLYWOOD
SECTION	064013	EXTERIOR ARCHITECTURAL WOODWORK
	064013.B	TIMBER BRACKET
	064013.C	TIMBER BEAM
	064013.E	WOOD PICKET ( )
	064013.G	WOOD RAIL
SECTION	074113	METAL ROOF PANELS
	074113.A	METAL ROOF PANEL
SECTION	074600	SIDING
	074600.F	VINYL COLUMN COVER

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NOTES

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16. STAINLESS STEEL WRAP TO BE CONTINUOUS AND SEAMLESS AROUND EXTERIOR AND INTERIOR PORTIONS OF THE COUNTER AS SHOWN.
17. DO NOT EXTEND PLYWOOD CEILING PANELS INTO ELECTRICAL 104 OR JANITOR 102.
18. USE POWDER ACTUATED FASTENERS OR SELF TAPPING SCREWS TO ACCOMMODATE BASE MATERIAL THICKNESS AT COLUMN TO ATTACH BLOCKING TO STEEL COLUMN– USE IT AS OFTEN AS EACH SINGLE LOCATION REQUIRES.
19. PTWD KDAT TRIM TOP EDGE TO BE CHAMFERED 3/8" MIN. AND TO BE MITERED AT ALL CORNERS.

SGA
NarmourWright
DESIGN

8263 Ocean Highway
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p 843.237.3421
www.sganwdesign.com

WAVERLY PARK

AT
WACCAMAW ELEMENTARY SCHOOL
1364 WAVERLY RD.
PAWLEY'S ISLAND, SC 29585

PROJECT NUMBER:
19-004-04
ISSUE DATE:
4/13/2021

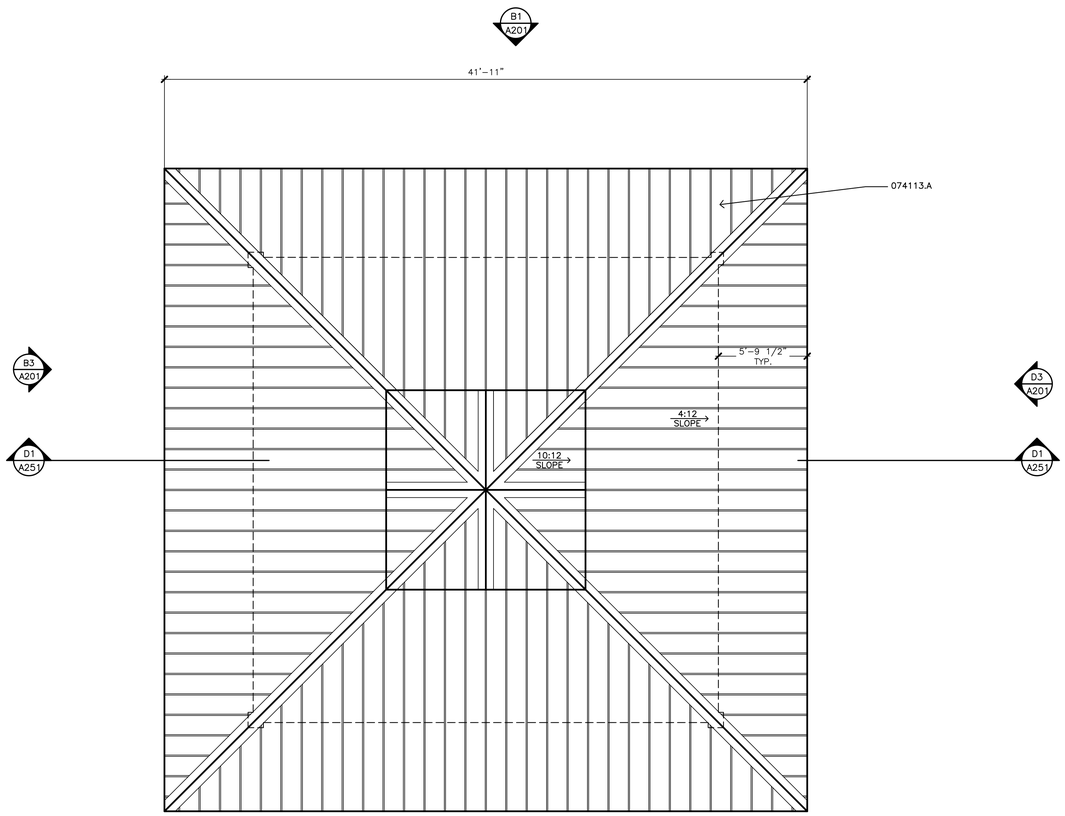
DRAWN BY: PW / JW
CHECKED BY: PW / JW / MR

Bid Set

Revision Schedule		
#	Description	Date

FLOOR/ROOF PLAN
EXT. ELEVATIONS
SCORE TOWER

A102



C1 ROOF PLAN - CONCESSION
1/4" = 1'-0"

N

MATERIALS KEYING LEGEND

SECTION 074113 METAL ROOF PANELS
074113.A METAL ROOF PANEL

GENERAL NOTES

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B. ALL DOORS & WINDOWS ARE DIMENSIONED TO THE MASONRY OPENINGS. REFER TO MANUFACTURER'S DATA FOR OVERALL ROUGH OPENING REQUIREMENTS FOR EACH TYPE OF DOOR & WINDOW.
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6. LINE OF ROOF ABOVE.
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10. CONTROL JOINT (CJ) IN THE CONCRETE SLAB – SEE STRUCTURAL FOR ALL LOCATIONS AND REQUIREMENTS. FIELD COORDINATE ALTERNATE LOCATIONS WITH ARCHITECT.
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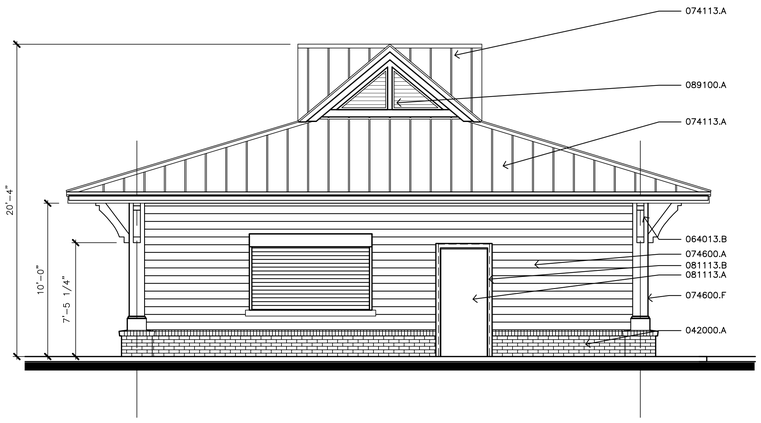
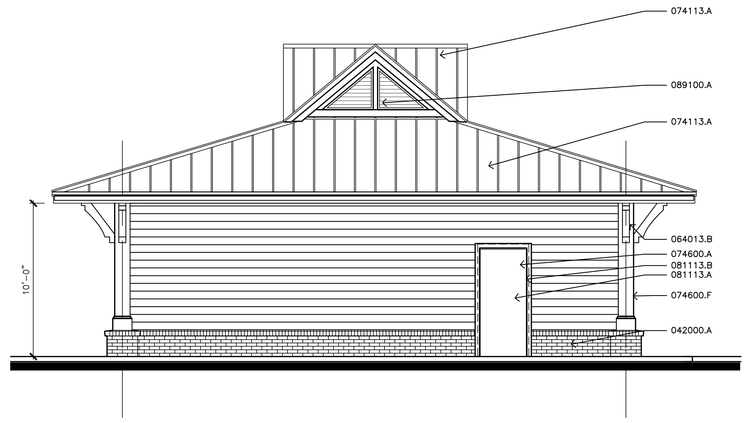
Revision Schedule		
#	Description	Date

ROOF PLAN
CONCESSION

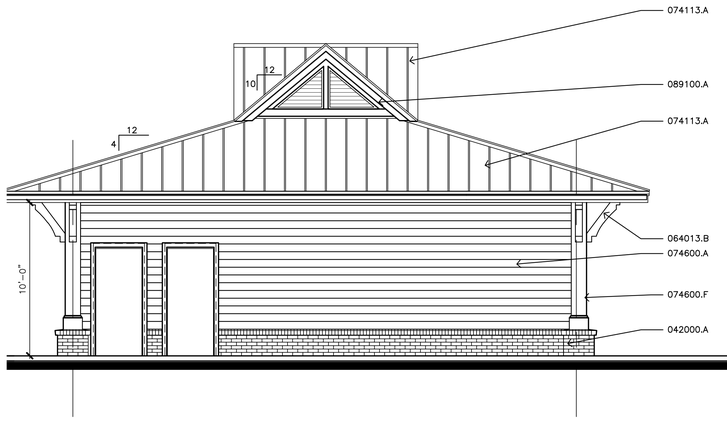
A151



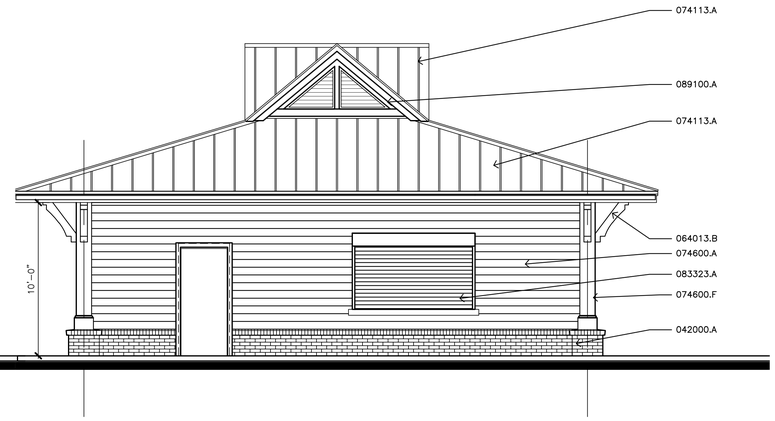
B1 NORTH ELEVATION - CONCESSION
1/4" = 1'-0"



B3 WEST ELEVATION - CONCESSION
1/4" = 1'-0"



D1 SOUTH ELEVATION - CONCESSION
1/4" = 1'-0"



D3 EAST ELEVATION - CONCESSION
1/4" = 1'-0"

MATERIALS KEYING LEGEND

SECTION 042000		UNIT MASONRY
	042000.A	FACE BRICK
SECTION 064013		EXTERIOR ARCHITECTURAL WOODWORK
	064013.B	TIMBER BRACKET
SECTION 074113		METAL ROOF PANELS
	074113.A	METAL ROOF PANEL
SECTION 074600		SIDING
	074600.A	SIDING
	074600.F	VINYL COLUMN COVER
SECTION 081113		HOLLOW METAL DOORS AND FRAMES
	081113.A	HM DOOR
	081113.B	HM FRAME
SECTION 083323		OVERHEAD COILING DOORS
	083323.A	OVERHEAD COILING DOOR
SECTION 089100		LOUVERS
	089100.A	METAL WALL LOUVER

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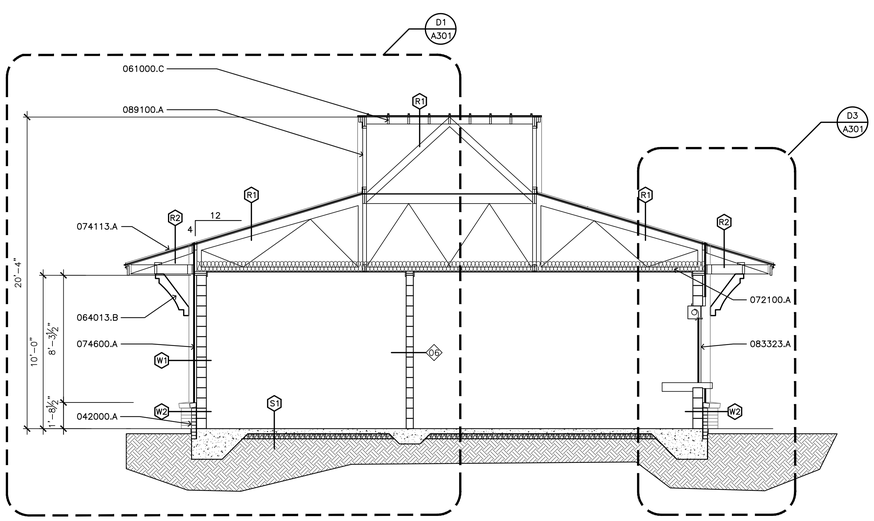
Bid Set

Revision Schedule		
#	Description	Date

EXTERIOR ELEVATIONS CONCESSION

A201



D1 BUILDING SECTION - CONCESSION
1/4" = 1'-0"

MATERIALS KEYING LEGEND

SECTION	042000	UNIT MASONRY
	042000.A	FACE BRICK
SECTION	061000	ROUGH CARPENTRY
	061000.C	WOOD RAFTER (")
SECTION	064013	EXTERIOR ARCHITECTURAL WOODWORK
	064013.B	TIMBER BRACKET
SECTION	072100	THERMAL INSULATION
	072100.A	THERMAL INSULATION
SECTION	074113	METAL ROOF PANELS
	074113.A	METAL ROOF PANEL
SECTION	074600	SIDING
	074600.A	SIDING
SECTION	083323	OVERHEAD COILING DOORS
	083323.A	OVERHEAD COILING DOOR
SECTION	089100	LOUVERS
	089100.A	METAL WALL LOUVERS

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Revision Schedule		
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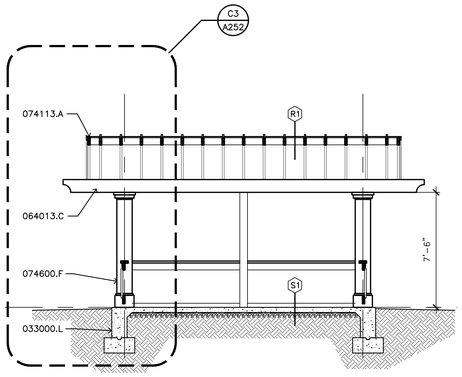
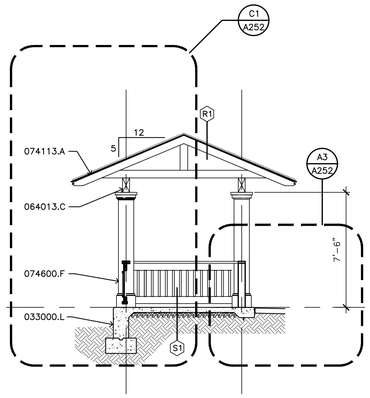
BUILDING
SECTION
CONCESSION

A251



A1 BUILDING SECTION - SCORE TOWER
1/4" = 1'-0"



A2 BUILDING SECTION - SCORE TOWER
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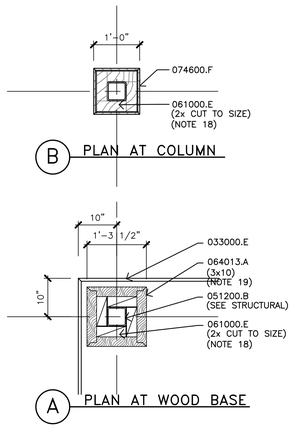
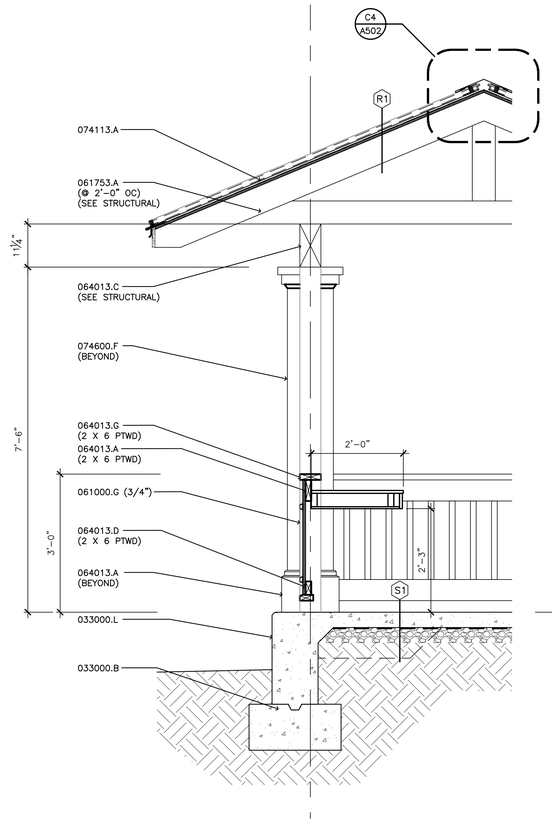


A3 PLAN DETAILS AT COLUMNS
3/4" = 1'-0"



C1 WALL SECTION - SCORE TOWER
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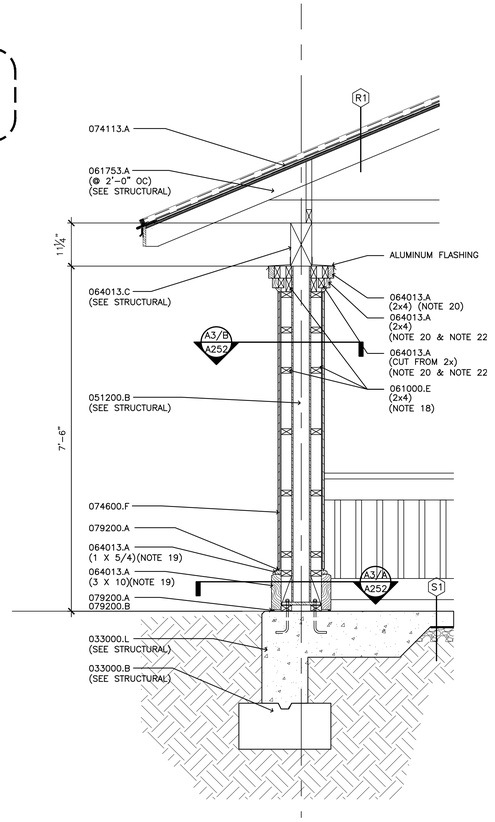

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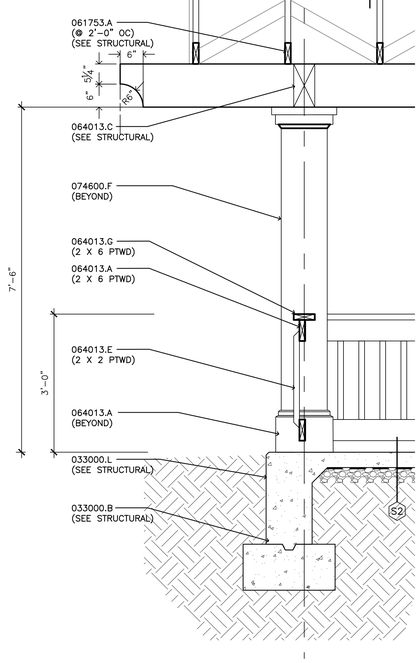

C3 WALL SECTION-SCORE TOWER
3/4" = 1'-0"

MATERIALS KEYING LEGEND

SECTION	033000	CAST IN PLACE CONCRETE
SECTION	042000	UNIT MASONRY
	042000.A	FACE BRICK
	042000.B	ROWLOCK SOLID BRICK SILL
	042000.D	CMU (")
	042000.G	MASONRY JOINT REINFORCEMENT
	042000.N	GROUT SOLID
SECTION	051200	STRUCTURAL STEEL
	051200.B	STEEL COLUMN
SECTION	061000	ROUGH CARPENTRY
	061000.B	WOOD JOIST
	061000.C	WOOD RAFTER (")
	061000.G	PLYWOOD
SECTION	064013	EXTERIOR ARCHITECTURAL WOODWORK
	064013.A	WOOD TRIM
	064013.C	TIMBER BEAM
	064013.D	WOOD DECK ( )
	064013.E	WOOD PICKET ( )
	064013.F	WOOD RISER
	064013.G	WOOD RAIL
	064013.H	WOOD STRINGER
SECTION	074113	METAL ROOF PANELS
	074113.A	METAL ROOF PANEL
SECTION	074600	SIDING
	074600.F	VINYL COLUMN COVER
SECTION	079200	JOINT SEALANTS

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F. ALL EXPOSED EXTERIOR WOOD SHALL HAVE TRANSPARENT FINISH EXCEPT PAVILION COLUMNS. ALL EXPOSED WOOD STRUCTURAL MEMBERS AND DECKING, LOUVERS, AND WOOD TRIM FOR TRANSPARENT FINISH SHALL BE THE SAME SPECIES.
G. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND CONDITIONS AND NOTIFY ARCHITECT OF ANY POSSIBLE CONFLICTS PRIOR TO INITIATING ANY WORK IN QUESTION.
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J. GENERAL CONTRACTOR SHALL VERIFY THE REQUIREMENTS FOR THE NEED OF THE WALL BLOCKING FOR INSTALLATION OF ALL EQUIPMENT AND FURNISHING. GENERAL CONTRACTOR SHALL ALLOW FUNDS FOR ALL ANTICIPATED BLOCKING AND INCLUDE IT IN THE PUBLISHED FINAL BID SUM.

NOTES

1. DASHED LINE INDICATES WALL OR PORCH STRUCTURE BELOW.
2. SOLID LINE INDICATES EAVE AND RAKE PROJECTIONS AND VALLEYS AND RIDGES.
3. DRINKING FOUNTAINS – SEE PLUMBING.
4. VENDING MACHINES LOCATION. VENDING MACHINES ARE NOT IN CONTRACT. ONLY ELECTRICAL AND PLUMBING CONNECTIONS TO BE PROVIDED IN THIS CONTRACT.
5. ROLLING COUNTER SHUTTER – SEE SPECS.
6. LINE OF ROOF ABOVE.
7. LINE OF FLOOR SLAB EXTENTS.
8. LINE OF WALL BASE BELOW.
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10. CONTROL JOINT (CJ) IN THE CONCRETE SLAB – SEE STRUCTURAL FOR ALL LOCATIONS AND REQUIREMENTS. FIELD COORDINATE ALTERNATE LOCATIONS WITH ARCHITECT.
11. NOT USED.
12. NOT USED.
13. SPLIT-FACE CMU BASE ENDS AT THE CASED OPENING AS SHOWN.
14. PROVIDE PORTABLE FIRE EXTINGUISHER – LARSEN'S MFG CO: MP5 WITH 1521 BRACKET, OR APPROVED EQUAL. MOUNT AT 48" AFF. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
15. SEE STRUCTURAL FOR BRACKET AND BLOCKING ATTACHMENT & THROUGH BOLT AT EACH BRACKET. BLOCKING FOR ATTACHMENT AT THE ROOF EAVES TO BE CONTINUOUS BETWEEN ALL EXPOSED ENDS OF RAFTERS AND OUTRIGGERS AT ALL EAVES REGARDLESS IF THERE IS BRACKET PRESENT OR NOT.
16. STAINLESS STEEL WRAP TO BE CONTINUOUS AND SEAMLESS AROUND EXTERIOR AND INTERIOR PORTIONS OF THE COUNTER AS SHOWN.
17. DO NOT EXTEND PLYWOOD CEILING PANELS INTO ELECTRICAL 104 OR JANITOR 102.
18. USE POWDER ACTUATED FASTENERS OR SELF TAPPING SCREWS TO ACCOMMODATE BASE MATERIAL THICKNESS AT COLUMN TO ATTACH BLOCKING TO STEEL COLUMN– USE IT AS OFTEN AS EACH SINGLE LOCATION REQUIRES.
19. PTWD KDAT TRIM TOP EDGE TO BE CHAMFERED 3/8" MIN. AND TO BE MITERED AT ALL CORNERS.

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Revision Schedule		
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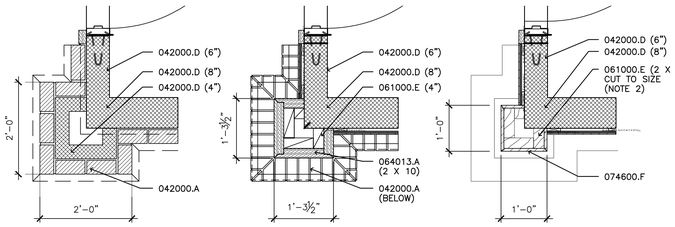
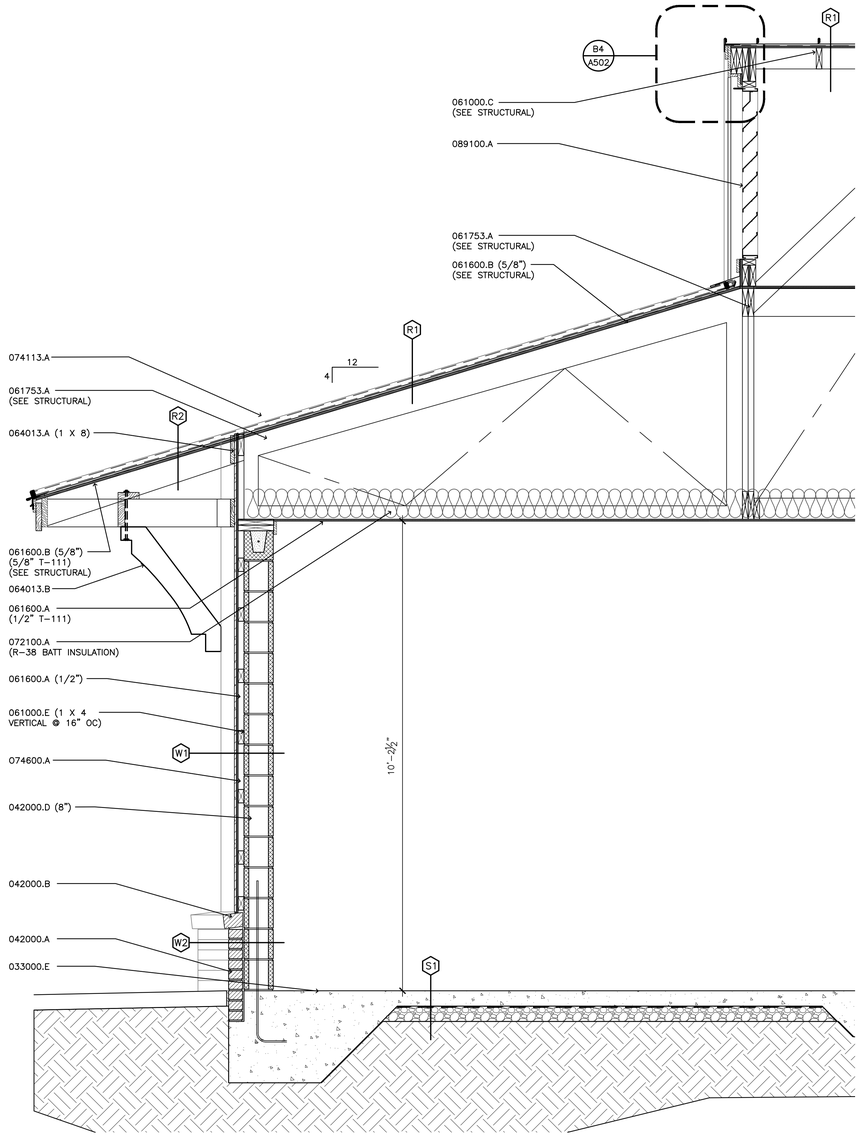
SECTIONS
DETAILS
SCORE TOWER

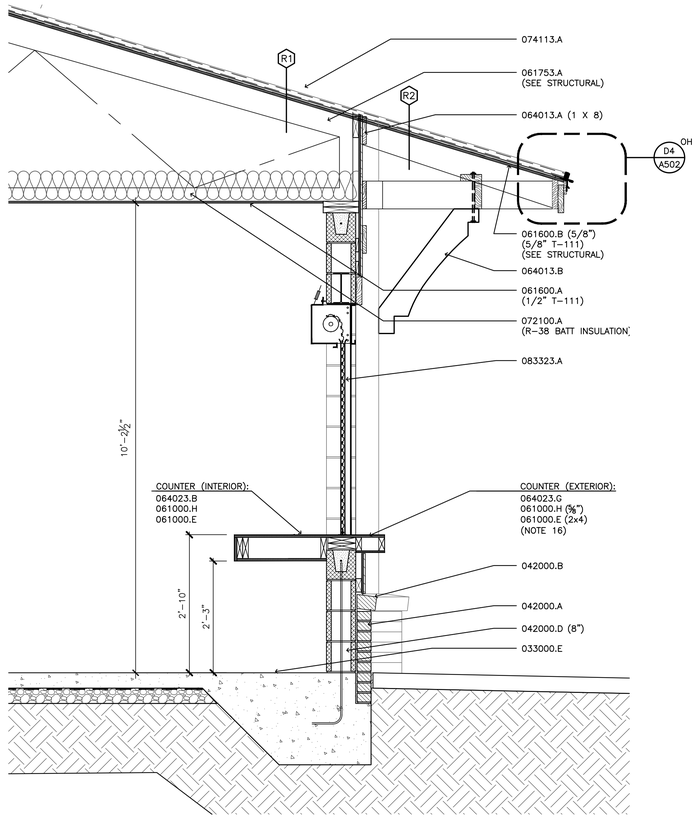
A252



A3 PLAN DETAILS - CONCESSION
3/4" = 1'-0"



D1 WALL SECTION - CONCESSION
3/4" = 1'-0"



D3 WALL SECTION - CONCESSION
3/4" = 1'-0"

MATERIALS KEYING LEGEND

SECTION	033000	CAST-IN-PLACE CONCRETE
	033000.E	CONCRETE SLAB-ON-GRADE
SECTION	042000	UNIT MASONRY
	042000.A	FACE BRICK
	042000.B	ROWLOCK SOLID BRICK SILL
	042000.D	CMU (")
	042000.G	MASONRY JOINT REINFORCEMENT
SECTION	051200	STRUCTURAL STEEL
	051200.B	STEEL COLUMN
SECTION	061000	ROUGH CARPENTRY
	061000.C	WOOD RAFTER (")
	061000.E	WOOD BLOCKING
	061000.H	EXTERIOR GRADE PLYWOOD
SECTION	061600	SHEATHING
	061600.A	WALL SHEATHING
	061600.B	ROOF SHEATHING
SECTION	061753	SHOP-FABRICATED WOOD TRUSSES
	061753.A	WOOD TRUSS
SECTION	064013	EXTERIOR ARCHITECTURAL WOODWORK
	064013.A	WOOD TRIM
	064013.B	TIMBER BRACKET
SECTION	064023	INTERIOR ARCHITECTURAL WOODWORK
	064023.G	STAINLESS STEEL COUNTER WRAP
SECTION	072100	THERMAL INSULATION
	072100.A	THERMAL INSULATION
SECTION	074113	METAL ROOF PANELS
	074113.A	METAL ROOF PANEL
SECTION	074600	SIDING
	074600.A	SIDING
	074600.F	VINYL COLUMN COVER
SECTION	083323	OVERHEAD COILING DOORS
	083323.A	OVERHEAD COILING DOOR
SECTION	089100	LOUVERS
	089100.A	METAL WALL LOUVER

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Revision Schedule		
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WALL SECTIONS
PLAN DETAILS
CONCESSION

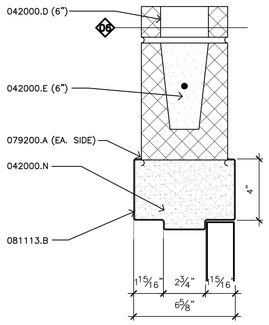
A301

DOOR SCHEDULE

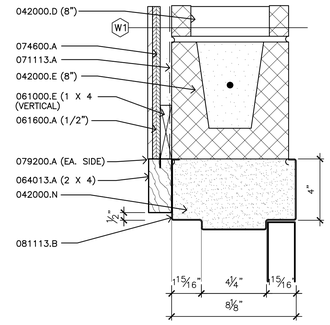
DOOR NUMBER	FRAME						DOOR						
	MAT'L	TYPE	HEAD	JAMB	SILL	FINISH	MAT'L	TYPE	FINISH	SIZE	HDWE	LABEL	NOTES
101A	HM	1	B2/A401	C2,C3/A401	D2/A401	PAINT	HM	F	PAINT	3'-0" X 7'-0" X 1-3/4"	01	–	–
101B	ALUM	OCD	B4/A401	C4/A401	D4/A401	ALUM	ALUM	OCD	ALUM	8'-0" X 5'-0"	02	–	–
101C	ALUM	OCD	B4/A401	C4/A401	D4/A401	ALUM	ALUM	OCD	ALUM	8'-0" X 5'-0"	02	–	–
102	HM	1	B1/A401	C1/A401	–	PAINT	HM	F	PAINT	3'-0" X 7'-0" X 1-3/4"	05	–	–
103	HM	1	B2/A401	C2,C3/A401	D2/A401	PAINT	HM	F	PAINT	3'-0" X 7'-0" X 1-3/4"	03	–	–
104	HM	1	B2/A401	C2,C3/A401	D2/A401	PAINT	HM	F	PAINT	3'-0" X 7'-0" X 1-3/4"	04	–	–
105	HM	1	B2/A401	C2,C3/A401	D2/A401	PAINT	HM	F	PAINT	3'-0" X 7'-0" X 1-3/4"	03	–	–
106	HM	1	B2/A401	C2,C3/A401	D2/A401	PAINT	HM	F	PAINT	3'-0" X 7'-0" X 1-3/4"	03	–	–

FINISH SCHEDULE

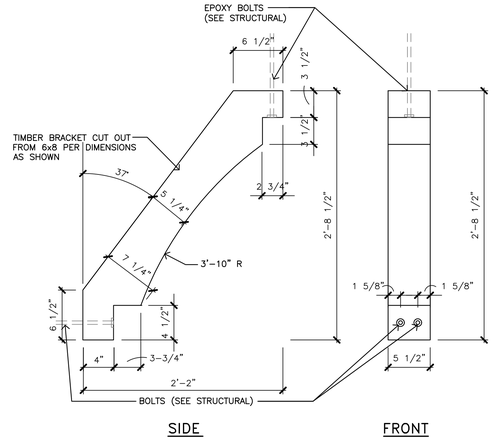
ROOM NUMBER	NAME	FLOOR	BASE	SIZE	WALLS				CEILINGS		NOTES
					NORTH	SOUTH	EAST	WEST	MATERIAL	HEIGHT	
101	CONCESSION	SEALED CONC.	–	–	PT	PT	PT	PT	T-111	10'-2"	PAINTED CEILING
102	JANITOR	SEALED CONC.	–	–	PT	PT	PT	PT	T-111	10'-2"	PAINTED CEILING
103	MENS RESTROOM	SEALED CONC.	–	–	PT	PT	PT	PT	T-111	10'-2"	PAINTED CEILING
104	ELECTRICAL	SEALED CONC.	–	–	PT	PT	PT	PT	T-111	10'-2"	PAINTED CEILING
105	WOMENS RESTROOM	SEALED CONC.	–	–	PT	PT	PT	PT	T-111	10'-2"	PAINTED CEILING
106	FAMILY RESTROOM	SEALED CONC.	–	–	PT	PT	PT	PT	T-111	10'-2"	PAINTED CEILING



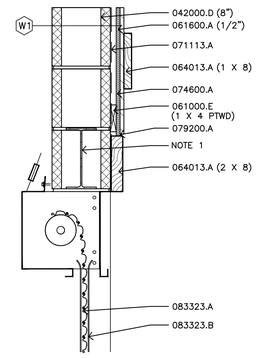
B1 HM HEAD DETAIL
3" = 1'-0"



B2 HM HEAD DETAIL
3" = 1'-0"



B3 TIMBER BRACKET DETAIL
1 1/2" = 1'-0"

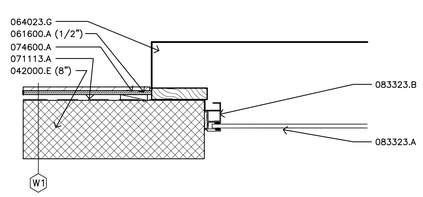


B4 COILING DOOR HEAD DETAIL
1 1/2" = 1'-0"

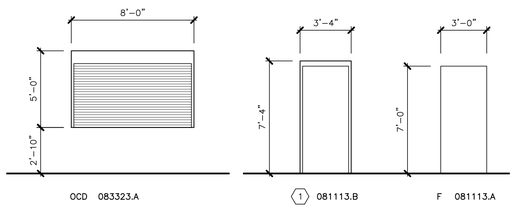
C1 HM JAMB DETAIL
3" = 1'-0"

C2 HM JAMB DETAIL
3" = 1'-0"

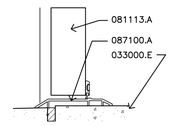
C3 HM JAMB DETAIL
3" = 1'-0"



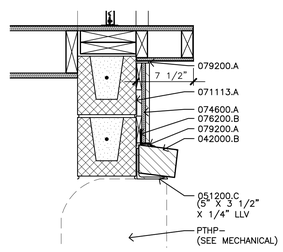
C4 COILING DOOR JAMB DETAIL
1 1/2" = 1'-0"



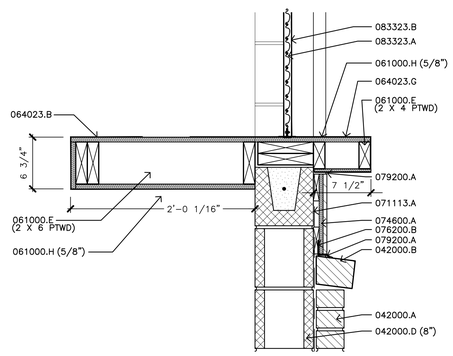
D1 FRAME & DOOR ELEVATIONS
1/4" = 1'-0"



D2 THRESHOLD DETAIL
3" = 1'-0"



D3 DETAIL AT PTHP
3" = 1'-0"



D4 COILING DOOR JAMB DETAIL
1 1/2" = 1'-0"

MATERIALS KEYING LEGEND

SECTION 033000 CAST-IN-PLACE CONCRETE
- 033000.E CONCRETE SLAB-ON-GRADE

SECTION 042000 UNIT MASONRY
- 042000.A FACE BRICK
- 042000.B ROWLOCK SOLID BRICK SILL
- 042000.D CMU (")
- 042000.E CMU BOND BEAM (")
- 042000.N GROUT SOLID

SECTION 051200 STRUCTURAL STEEL
- 051200.C STEEL ANGLE

SECTION 061000 ROUGH CARPENTRY
- 061000.A WOOD WALL FRAMING (")
- 061000.C WOOD RAFTER (")
- 061000.E WOOD BLOCKING
- 061000.H EXTERIOR GRADE PLYWOOD

SECTION 061600 SHEATHING
- 061600.A WALL SHEATHING
- 061600.B ROOF SHEATHING
- 061600.D BUILDING PAPER
- 061600.F DRAINAGE MAT

SECTION 064013 EXTERIOR ARCHITECTURAL WOODWORK
- 064013.A WOOD TRIM

SECTION 064023 INTERIOR ARCHITECTURAL WOODWORK
- 064023.B PLASTIC LAMINATE COUNTERTOP
- 064023.G STAINLESS STEEL COUNTER WRAP
- 064023.H WOOD TRIM

SECTION 071113 BITUMINOUS DAMPPROOFING
- 071113.A BITUMINOUS DAMPPROOFING

SECTION 072100 BUILDING INSULATION
- 072100.A UNFACED BLANKET INSULATION (R-13)

SECTION 074113 METAL ROOF PANELS
- 074113.A METAL ROOF PANEL
- 074113.B RIDGE CLOSURE
- 074113.C FASCIA
- 074113.G UNDERLAYMENT
- 074113.H FASTENER
- 074113.L PANEL CLOSURE
- 074113.M Z CLOSURE

SECTION 074600 SIDING
- 074600.A SIDING
- 074600.B FIBER CEMENT BOARD PERFORATED SOFFIT
- 074600.C SIDING/TRIM FLASHING

SECTION 076200 SHEET METAL FLASHIG AND TRIM
- 076200.D HEAD FLASHING
- 076200.J ROOF PENETRATION FLASHING

SECTION 079200 JOINT SEALANTS
- 079200.A JOINT SEALER
- 079200.B BACKER ROD

SECTION 081113 HOLLOW METAL DOORS AND FRAMES
- 081113.A HM DOOR
- 081113.B HM FRAME
- 081113.D FRAME ANCHOR

SECTION 083323 OVERHEAD COILING DOORS
- 083323.A OVERHEAD COILING DOOR
- 083323.B COILING DOOR TRACK

SECTION 085113 ALUMINUM WINDOWS
- 085113.A SLIDING ALUMINUM WINDOWS
- 085113.B ALUMINUM WINDOWS
- 085113.E SILL PAN

SECTION 087100 DOOR HARDWARE
- 087100.A ALUMINUM THRESHOLD

SECTION 092900 GYPSUM BOARD ASSEMBLIES
- 092900.A GYPSUM BOARD

NOTES

1. LINTEL – SEE STRUCTURAL.

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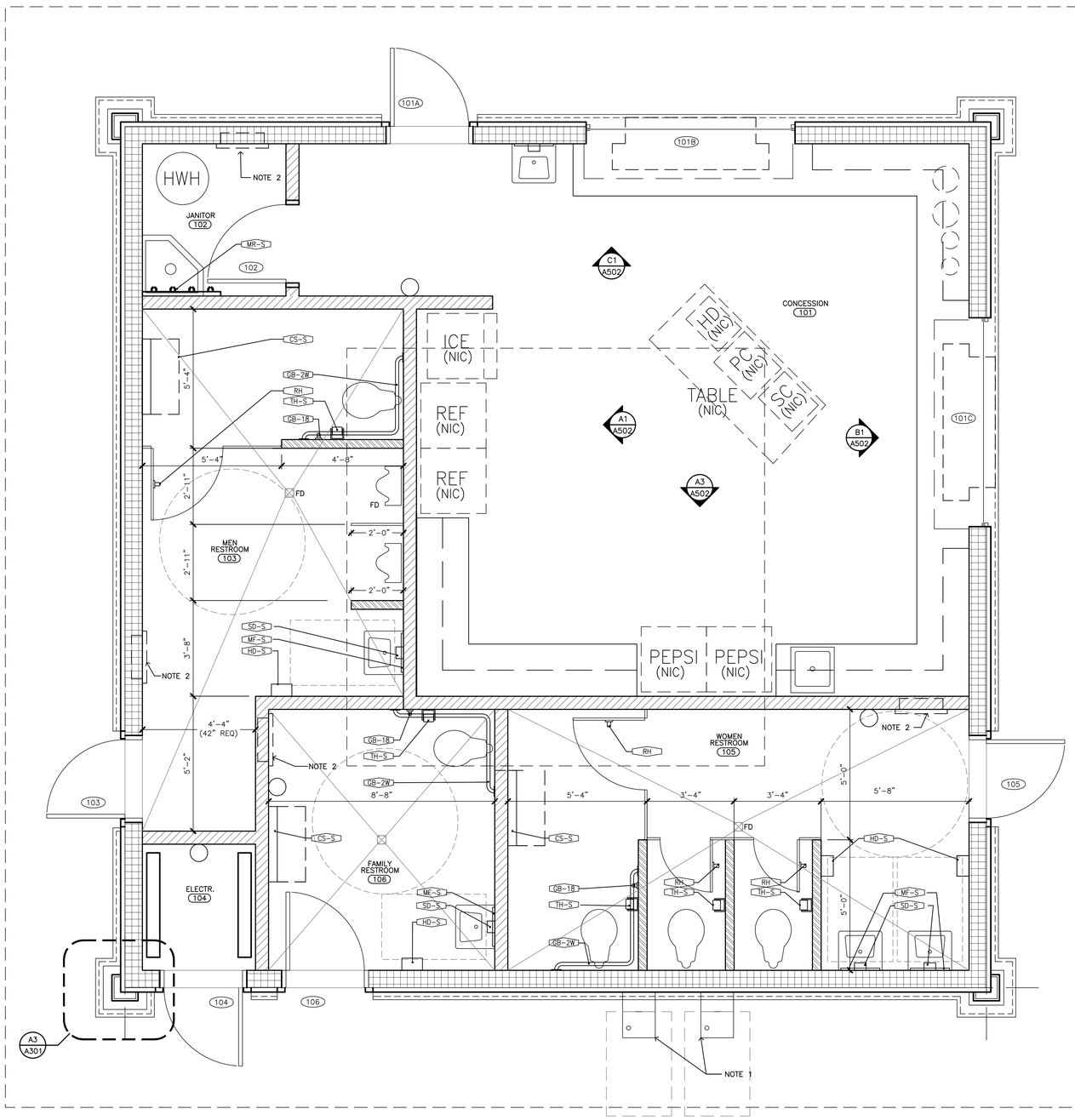
DOOR SCHEDULE
DOOR DETAILS
CONCESSION

A401



C1 ENLARGED RESTROOM & JANITOR PLAN

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N

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G. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND CONDITIONS AND NOTIFY ARCHITECT OF ANY POSSIBLE CONFLICTS PRIOR TO INITIATING ANY WORK IN QUESTION.
H. ALL GENERAL CONTRACTORS AND SUB CONTRACTORS ARE TO REVIEW ARCHITECTS DRAWINGS & SPECIFICATIONS AS WELL AS ENGINEER'S DRAWINGS & SPECIFICATIONS AND COORDINATE EACH WITH THEIR SPECIFIC FIELD. REFER ANY QUESTIONS OR CONFLICTS TO ARCHITECT DURING BID & NEGOTIATION PROCESS WITHIN THE REQUIRED TIME FOR PROPER RESPONSE AND INCLUSION OF ANSWERS AND REVISIONS IF ANY, INTO THE BID PROPOSAL. ALL QUESTIONS/ANSWERS SHALL OCCUR AND BE RESOLVED BEFORE BID OPENING. GENERAL CONTRACTOR, OR SUBCONTRACTOR, OR ANY VENDOR WHO IS PROVIDING ANY MATERIAL AND/OR SYSTEM FOR THIS PROJECT SHALL SIGN OFF ON THE FORM IN THE BID DOCUMENTS SPECIFICALLY NOTING THAT ALL CONSTRUCTION DOCUMENTS (DRAWINGS AND SPECIFICATIONS) WERE REVIEWED AND COMPLIANCE TO IT IS INCLUDED IN THEIR BID PROPOSAL.
I. WHEN DRAWINGS AND SPECIFICATIONS DO NOT AGREE, ARCHITECT SHALL DECIDE WHICH IS CORRECT AND TO BE FURNISHED, SUPPLIED AND OR INSTALLED UNDER THIS CONTRACT. CONTRACTOR SHALL INCLUDE IN HIS BID THE MOST RESTRICTIVE OR COSTLY ALTERNATIVE.
J. GENERAL CONTRACTOR SHALL VERIFY THE REQUIREMENTS FOR THE NEED OF THE WALL BLOCKING FOR INSTALLATION OF ALL EQUIPMENT AND FURNISHING. GENERAL CONTRACTOR SHALL ALLOW FUNDS FOR ALL ANTICIPATED BLOCKING AND INCLUDE IT IN THE PUBLISHED FINAL BID SUM.

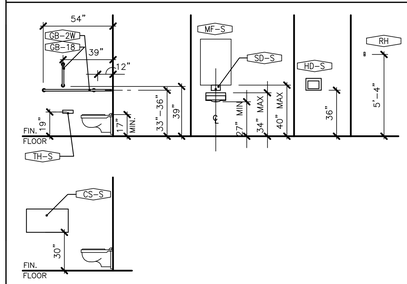
NOTES

1. DRINKING FOUNTAIN – SEE PLUMBING.
2. THROUGH WALL HVAC UNIT – SEE MECHANICAL.
3. SUPPLIED BY OWNER AND INSTALL BY CONTRACTOR.

RESTROOM ACCESSORIES LEGEND

- MF-S — 24"W x 36"H STAINLESS STEEL MIRROR, FRAMELESS, SURFACE MOUNTED
- RH — ROBE HOOK
- TH-S — TOILET TISSUE DISPENSER, SINGLE, SURFACE MOUNTED – N.I.C. (SEE NOTE 3)
- SD-S — SOAP DISPENSER, SURFACE MOUNTED – N.I.C. (SEE NOTE 3)
- HD-S — ELECTRIC HAND DRYER, SURFACE MOUNTED
- CB-2W — HORIZONTAL TWO-WALL GRAB BAR – 36"x54"
- CB-18 — VERTICAL GRAB BAR – 18"
- MR-S — MOP RACK – SURFACE MOUNTED
- CS-S — BABY CHANGING STATION – SURFACE MOUNTED

RESTROOM ACCESSORIES DIAGRAMS



GENERAL CONTRACTOR NOTES:

I. WHERE THE OWNER ELECTS TO PROVIDE TOILET ACCESSORIES IN LIEU OF THOSE SPECIFIED, THE CONTRACTOR WILL COORDINATE INSTALLATION OF IT WITH THE OWNER AND THEIR VENDOR, FIELD CONDITIONS, MILLWORK, PLUMBING FIXTURES, ETC.

WALL LEGEND

- 8" CMU - EXTERIOR WALL TO BE TERMINATED @ 10'-0" A.F.F..
- 6" CMU - INTERIOR WALL TO BE TERMINATED @ 10'-0" A.F.F.
- 4" CMU - INTERIOR WALL TO BE TERMINATED @ 8'-0" A.F.F.

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p 843.237.3421
www.sganwdesign.com

WAVERLY PARK

AT
WACCAMAW ELEMENTARY SCHOOL
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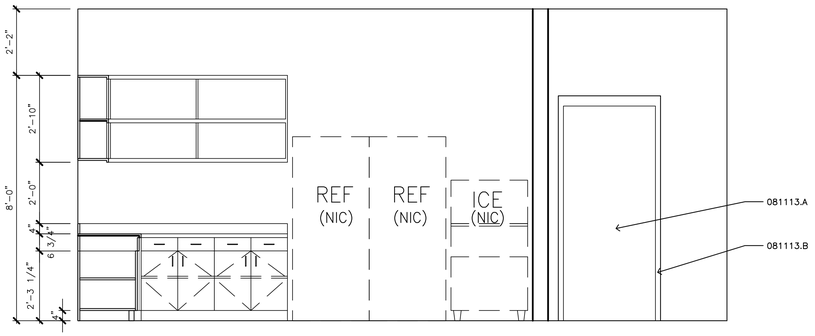
PROJECT NUMBER:
19-004-04
ISSUE DATE:
4/13/2021
DRAWN BY: PW / JW
CHECKED BY: PW / JW / MR

Bid Set

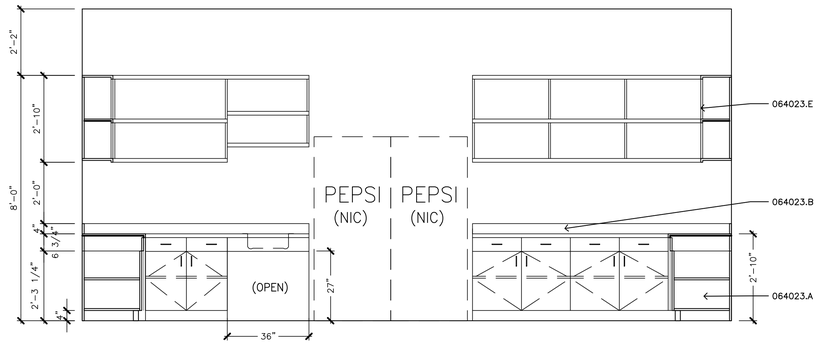
Revision Schedule		
#	Description	Date

ENLARGED
RESTROOMS
PLAN

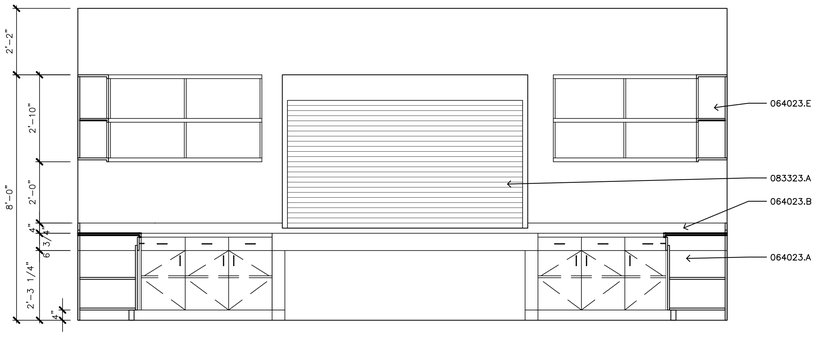
A501



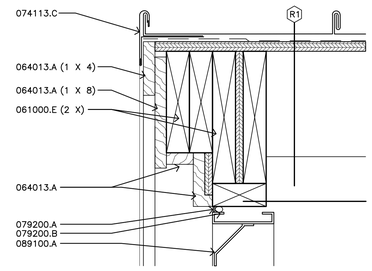
A1 INTERIOR ELEVATION
1/2" = 1'-0"



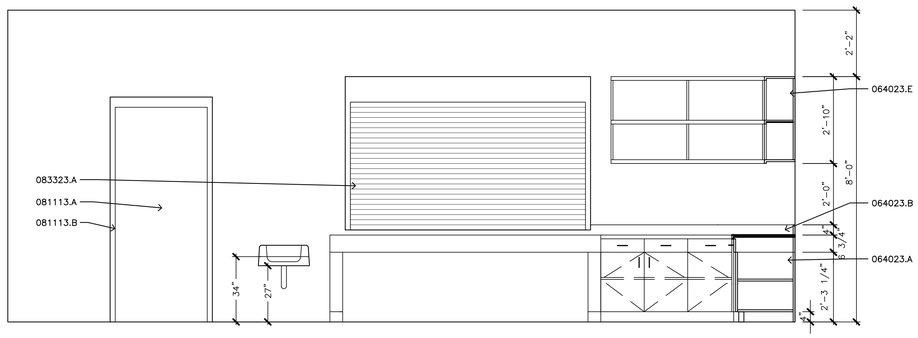
A3 INTERIOR ELEVATION
1/2" = 1'-0"



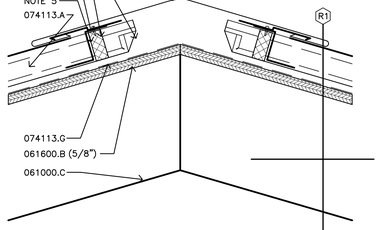
B1 INTERIOR ELEVATION
1/2" = 1'-0"



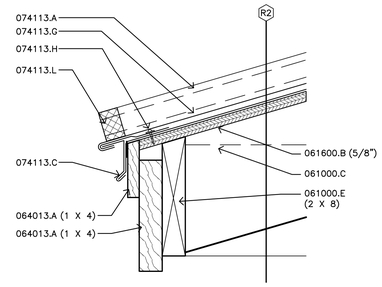
B4 METAL ROOF RAKE DETAIL
1 1/2" = 1'-0"



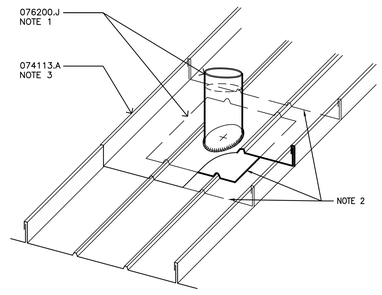
C1 INTERIOR ELEVATION
1/2" = 1'-0"



C4 METAL ROOF RIDGE DETAIL
1 1/2" = 1'-0"



D4 METAL ROOF EAVE DETAIL
1 1/2" = 1'-0"



D5 VENT THROUGH ROOF
1 1/2" = 1'-0"

MATERIALS KEYING LEGEND

SECTION 061000 ROUGH CARPENTRY
- 061000.C WOOD RAFTER (")
- 061000.E WOOD BLOCKING

SECTION 061600 SHEATHING
- 061600.B ROOF SHEATHING

SECTION 064013 EXTERIOR ARCHITECTURAL WOODWORK
- 064013.A WOOD TRIM

SECTION 064023 INTERIOR ARCHITECTURAL WOODWORK
- 064023.B PLASTIC LAMINATE COUNTERTOP
- 064023.G STAINLESS STEEL COUNTER WRAP
- 064023.E OPEN SHELF

SECTION 074113 METAL ROOF PANELS
- 074113.A METAL ROOF PANEL
- 074113.B RIDGE CLOSURE
- 074113.C FASCIA
- 074113.G UNDERLAYMENT
- 074113.H FASTENER
- 074113.L PANEL CLOSURE
- 074113.M Z CLOSURE

SECTION 076200 SHEET METAL FLASHIG AND TRIM
- 076200.J ROOF PENETRATION FLASHING

SECTION 079200 JOINT SEALANTS
- 079200.A JOINT SEALER
- 079200.B BACKER ROD

SECTION 081113 HOLLOW METAL DOORS AND FRAMES
- 081113.A HM DOOR
- 081113.B HM FRAME

SECTION 083323 OVERHEAD COILING DOORS
- 083323.A OVERHEAD COILING DOOR

SECTION 089100 LOUVERS
- 089100.A METAL WALL LOUVER

NOTES

1. EXTEND FLASHING 4" MIN. OVER ROOF PANEL & BEND FLASHING 1" MIN. INSIDE VENT.
2. INSTALL HIGHER ROOF PANEL ON TOP OF LOWER PANEL WITH 12" MIN. OVERLAP. INSTALL FLASHING BETWEEN ROOF PANELS.
3. COORDINATE LOCATION OF ROOF PENETRATION WITH ROOF PANELS TO AVOID STANDING SEAMS.
4. TURN UP ENDS OF PANEL TO CREATE END DAM. SEAL ALL JOINTS WATERTIGHT.
5. SEAL ALL JOINTS BETWEEN ROOF PANEL & CLOSURE.

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Revision Schedule		
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INTERIORS
ROOF DETAILS
CONCESSION

A502

STRUCTURAL/GENERAL NOTES:

1. THE NOTES PRESENTED IN THESE STRUCTURAL DRAWINGS ARE TO PROVIDE THE CONTRACTOR (AND SUBCONTRACTORS) WITH USEFUL INFORMATION PERTAINING TO THE STRUCTURAL WORK REQUIRED FOR THIS PROJECT. MANY OF THE NOTES PRESENTED HERE HAVE BEEN SPECIFICALLY GENERATED TO BRING ATTENTION TO CERTAIN ASPECTS AND/OR CONDITIONS WHICH MAY BE SPECIFIC TO THIS PROJECT OR PERTAINING TO CERTAIN REQUIREMENTS BY KYZER AND TIMMERMAN. IN SOME CASES A BOOK OF SPECIFICATIONS (SPECIFICATION BOOK) MAY BE PROVIDED BY THE LEAD DESIGNER WHICH SHALL BE CONSIDERED AS SUPPLEMENTAL INFORMATION TO THESE DRAWINGS. IN THE EVENT OF ANY CONFLICTING INFORMATION IN THE STRUCTURAL DRAWINGS, OR BETWEEN THE STRUCTURAL DRAWINGS AND SPECIFICATIONS, THE CONTRACTOR SHOULD FAX A "REQUEST FOR INFORMATION" (RFI) TO THE APPROPRIATE DESIGNER, IN THE APPROPRIATE OFFICE, OF KYZER AND TIMMERMAN. THE LEADER OF THE DESIGN TEAM (ARCHITECT) SHOULD BE COPIED. THE CONTRACTOR SHOULD ASSUME THE MOST STRINGENT CONDITION UNTIL A RULING IS MADE. THE RESPONSE TIME FOR THE RFI WILL DEPEND ON THE REQUIRED RESEARCH AND MAY INVOLVE A RESPONSE FROM INDIVIDUALS OUTSIDE THE OFFICE OF KYZER AND TIMMERMAN.

2. THE GENERAL/STRUCTURAL NOTES FOR THIS PROJECT ARE GENERALLY CATEGORIZED AS TO WORK TRADE. THERE WILL BE INSTANCES IN WHICH SOME STRUCTURAL NOTES WILL PERTAIN TO MULTIPLE TRADES AND DRAWINGS OR INFORMATION PROVIDED BY OTHERS. FOR THIS REASON, THE DETAILS AND NOTES FOUND IN THE CONSTRUCTION DRAWINGS, DOCUMENTS AND SUBMITTALS SHALL BE CLEARLY UNDERSTOOD BY THE CONTRACTOR AND HIS SUBCONTRACTORS PRIOR TO STARTING THAT PART OF THE WORK. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR MAINTAINING SUPERVISION OVER ALL HIS PERSONNEL AND SUBCONTRACTORS FOR THIS PROJECT. ADEQUATE EXPERIENCED STAFFING BY THE GENERAL CONTRACTOR IS A REQUIREMENT TO MAINTAIN CONTROL OVER HIS SUBCONTRACTORS AND ULTIMATELY THE QUALITY OF THE SUBCONTRACTOR'S WORK. IT MUST BE REALIZED BY ALL PARTIES THAT KYZER AND TIMMERMAN STRUCTURAL ENGINEERS IS NOT THE LICENSED CONTRACTOR FOR THIS PROJECT AND DOES NOT ASSUME THE RESPONSIBILITY OF THE CONTRACTOR'S QUALITY CONTROL OFFICER (OR SAFETY OFFICER) FOR THIS PROJECT.

3. THE HORIZONTAL AND VERTICAL BUILDING DIMENSIONS ORIGINATE FROM THE LEAD DESIGNER DRAWINGS. THE LEAD (ARCHITECTURAL) DRAWINGS SHALL BE CONSIDERED AS "THE ORIGINAL SOURCE" FOR THE DIMENSIONING FOR THE PROJECT AND THEREBY WILL NORMALLY TAKE PRECEDENCE OVER THE DRAWINGS BY OTHERS ON THE DESIGN TEAM. THE DIMENSIONS INDICATED IN THESE STRUCTURAL DRAWINGS ARE TO DOCUMENT AND AID THE STRUCTURAL DESIGNER WITH THE DIMENSIONS USED FOR THE BASIC DESIGN OF THE STRUCTURAL SYSTEM. CONSTRUCTION AND DETAILING DIMENSIONS SHALL BE TAKEN (OR DERIVED) FROM THE "ORIGINAL SOURCE" DRAWINGS BY THE ARCHITECT OR LEAD DESIGNER. KYZER AND TIMMERMAN STRUCTURAL ENGINEERS PROVIDE STRUCTURAL ENGINEERING SERVICES AND SHALL NOT BE CONSIDERED THE LEAD DESIGNER, STRUCTURAL DETAILER OR BUILDING SURVEYOR FOR THIS PROJECT.

4. TO LESSEN THE RISK OF ERROR, THE CONTRACTOR IS ADVISED TO PROVIDE HIS DESIGNERS AND DETAILERS FOR THE STRUCTURAL SYSTEM(S) COMPLETE SETS OF CONSTRUCTION DRAWINGS AND SPECIFICATIONS FOR THEIR USE. FAILURE TO PROVIDE COMPLETE SETS OF DRAWINGS AND SPECIFICATIONS MAY CONTRIBUTE TO AN ERROR IN DETAILING, ETC.

5. AS PART OF MEANS AND METHODS, THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN AND ERECTION OF TEMPORARY BRACING AND SHORING AS REQUIRED FOR STABILITY OF THE STRUCTURAL SYSTEM AND STRUCTURAL COMPONENTS DURING ALL PHASES OF CONSTRUCTION. KYZER AND TIMMERMAN ARE NOT THE PROVIDERS FOR THE DESIGN OF SHORING, SCAFFOLDING, FORMING OR PROJECT SAFETY. THOUGH A REPRESENTATIVE FROM KYZER AND TIMMERMAN MAY VISIT THE SITE, OUR PERSONNEL ARE TYPICALLY NOT HIRED OR TRAINED TO RECOGNIZE THE PROJECT SAFETY REQUIREMENTS AS REQUIRED BY REGULATIONS OR SPECIFIED BY THE CONTRACTOR AND/OR HIS SAFETY OFFICER(S).

6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY, GATHER AND SUBMIT ALL SHOP DRAWINGS TO THE ARCHITECT OR LEAD DESIGNER FOR STRUCTURAL COMPONENTS. THIS STIPULATION IS FOR THE SPECIFIC PURPOSE OF KEEPING TRACK OF THE REQUIRED SHOP DRAWINGS FOR THE PROJECT THEREBY PROVIDING THE PROJECT WITH ALL THE NECESSARY SHOP DRAWINGS RELATING TO STRUCTURAL COMPONENTS AND STRUCTURAL SYSTEM(S). THOUGH THE ARCHITECT AND/OR STRUCTURAL ENGINEER MAY PERFORM SITE VISITS-THESE VISITS DO NOT RELIEVE THE CONTRACTOR FROM THE DUTIES OF GATHERING AND SUBMITTING SHOP DRAWINGS. NOR DOES THE PRESENCE OF THE ARCHITECT OR STRUCTURAL ENGINEER ON SITE RELIEVE THE CONTRACTOR FROM PROVIDING THE NECESSARY QUALITY CONTROL OVER THIS PROJECT. THE STRUCTURAL DRAWINGS ARE NOT TO BE REPRODUCED FOR SHOP DRAWINGS, SECTION SHEETS OR ERECTION PLANS. THE CONTRACTOR SHALL SUBMIT AN AMPLE NUMBER OF SETS OF SHOP DRAWINGS TO ALLOW FOR EACH DESIGN PROFESSIONAL TO RETAIN A SET FOR THE FILE. SHOP DRAWINGS SHALL BE REVIEWED AND APPROVED BY THE CONTRACTOR FOR (BUT NOT LIMITED TO) DIMENSIONS, ELEVATIONS, AND ERECTION PROCEDURES PRIOR TO ARCHITECT & STRUCTURAL ENGINEER'S REVIEW. AMPLE TIME, AS DETERMINED BY THE REVIEWER, SHALL BE ALLOTTED FOR HIS REVIEW OF SHOP DRAWINGS. THE CONTRACTOR SHOULD ISSUE SHOP DRAWINGS EARLY ENOUGH TO ALLOW FOR THE NECESSARY FABRICATION TIME. THE MEMBERS OF THE DESIGN TEAM SHOULD RECEIVE A FINAL SET OF SHOP DRAWINGS STAMPED "FINAL SHOP DRAWINGS - FILE SET" WHICH INCORPORATES ANY COMMENTS MADE DURING THE SHOP DRAWING PROCESS. "FINAL SHOP DRAWINGS" STRUCTURAL SHOP DRAWINGS ARE REQUIRED TO BEAR THE SEAL OF A REGISTERED ENGINEER IN THE PROJECT STATE.

7. THE CONTRACTOR IS ADVISED TO VISIT THE SITE PRIOR TO BID FOR THE PURPOSES OF DETERMINING SITE CONDITIONS WHICH MAY ADVERSELY AFFECT THE BID FOR THE PROJECT.

8. THE ENGINEER'S APPROVAL OF SHOP DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR DEVIATIONS FROM REQUIREMENTS IN THE CONTRACT DOCUMENTS AND THE PROJECT SPECIFICATION REQUIREMENTS. THOUGH THE SHOP DRAWINGS MAY BE APPROVED BY THE STRUCTURAL ENGINEER, THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR ERRORS OR OMISSIONS. CONTRACTOR DEVIATIONS TO THE CONTRACT DOCUMENTS MUST BE SUBMITTED SEPARATELY FOR APPROVAL AND TO BRING ATTENTION TO THE DEVIATION. IT IS THE CONTRACTOR'S DUTY TO CHECK, VERIFY, CONFIRM AND COORDINATE ALL DIMENSIONS AND DETAILS, TAKE FIELD MEASUREMENTS, VERIFY FIELD CONDITIONS AND COORDINATE HIS WORK WITH THAT OF OTHER CONTRACTORS AND/OR SUBCONTRACTORS FOR THIS PROJECT.

9. THE STRUCTURAL DRAWINGS AND RELATED INFORMATION SHALL BE USED IN CONJUNCTION WITH ANY ARCHITECTURAL DRAWINGS AS WELL AS OTHER INFORMATION AND DOCUMENTS RELATING TO OTHER TRADES. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING HIS OWN VERIFICATION AND COORDINATION OF DIMENSIONS, FIELD CONDITIONS, CLEARANCES, ETC. WITH THE WORK OF THE OTHER TRADES. IN CASE OF CONFLICT, CONTACT ARCHITECT AND/OR ENGINEER VERBALLY AND IN WRITING. IN THE OPINION OF THE CONTRACTOR, ANY CONDITIONS WHICH MAY APPEAR TO BE AN OMISSION, DEFICIENCY OR AMBIGUITY IN THE DESIGN DOCUMENTS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR LEAD DESIGNER, IN THE FORM OF AN "RFI" (REQUEST FOR INFORMATION) FOR CLARIFICATION. INTERPRETATIONS OR ADDITIONAL INFORMATION MAY BE ISSUED BEFORE THAT PORTION OF THE WORK MAY PROCEED. WORK PERFORMED BY THE CONTRACTOR, NOT IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS MAY REQUIRE AN ENGINEERING EVALUATION, TESTING OR REMOVAL AT THE EXPENSE OF THE CONTRACTOR. THE ARCHITECTURAL DRAWINGS ARE CONSIDERED THE LEAD DRAWINGS FOR PROJECT INCLUDING DIMENSIONS AND BUILDING LAYOUT/PLACEMENT. THE CONTRACTOR MUST LAYOUT THE BUILDING AND BUILDING COMPONENTS PER THE INFORMATION PROVIDED IN THE ARCHITECTURAL DRAWINGS. DO NOT RELY SOLELY ON THE STRUCTURAL DRAWINGS FOR BUILDING LAYOUT, EQUIPMENT LAYOUT AND SO ON. AN ARCHITECTURAL "ADDENDUM" MAY CAUSE A CHANGE IN THE DIMENSIONS FOUND IN THE STRUCTURAL DRAWINGS.

10. THE CONTRACTOR SHALL VERIFY SIZES AND LOCATIONS OF ALL SLOTS, PIPE SLEEVES, ANCHOR BOLTS, ETC. AS REQUIRED FOR ALL TRADES PRIOR TO CONSTRUCTING THAT PORTION OF THE PROJECT.

11. WORK NOT INDICATED AS PART OF THE DRAWINGS BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT AT CORRESPONDING PLACES SHALL BE REPEATED.

12. ALL SECTIONS AND DETAILS ARE TYPICAL AT SIMILAR LOCATIONS AND WHERE APPLICABLE.

13. CONTRACTOR SHALL MAKE NO DEVIATIONS FROM DESIGN DRAWINGS AND SPECIFICATIONS WITHOUT WRITTEN APPROVAL OF THE ARCHITECT AND/OR STRUCTURAL ENGINEER.

14. LONG TERM BUILDING (AND GROUNDS) MAINTENANCE IS REQUIRED FOR PROTECTING THE BUILDINGS OVERALL STRUCTURAL SYSTEM AND COMPONENTS. THE CONTRACTOR IS TO ADVISE THE OWNER AS TO ANY SPECIAL REQUIRED BUILDING MAINTENANCE IN ORDER TO ASSURE THIS PROTECTION. TYPICALLY, THIS ASSISTANCE CAN BE DONE AT THE END OF CONSTRUCTION PRIOR TO TURNING THE BUILDING OVER TO THE OWNER. THIS STIPULATION IS MADE IN AN EFFORT TO PREVENT LITIGATION BY AN OWNER NOT PROTECTING THE BUILDINGS STRUCTURAL SYSTEM, COMPONENTS AND OTHER BUILDING PRODUCTS FROM WEATHER, EROSION, WEAR, DAMAGE AND ABUSE. BUILDING MAINTENANCE IS A CONSIDERATION "A MUST" FOR WHICH THE STRUCTURAL ENGINEER IS NOT AN EXPERT.

15. THE CONTRACTOR SHALL BUILD THIS PROJECT IN ACCORDANCE TO ALL APPLICABLE BUILDING CODES AND SAFETY STANDARDS AND/OR REGULATIONS.

16. THE ENGINEER OF RECORD RESERVES THE RIGHT TO MODIFY THE STRUCTURAL DESIGN AND DRAWINGS AS NEEDED AS A RESULT OF LOADS (INCLUDING ADDITIONAL MECHANICAL UNITS AND WEIGHTS) SUBMITTED BY THE CONTRACTOR.

17. THE DESIGN PROFESSIONALS DO NOT CONTROL, OR HAVE TRAINING FOR, THE CONTRACTOR'S MEANS, METHODS, SEQUENCE, TECHNIQUES, PROCEDURES AND/OR QUALITY CONTROL IN PERFORMING THE WORK, SITE SAFETY OR SAFETY PROGRAMS IN CONNECTION WITH THIS PROJECT. THESE DUTIES ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR AND HIS STAFF. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL REGULATORY AGENCIES.

18. THESE STRUCTURAL DRAWINGS ARE TO BE USED FOR DESCRIBING THE STRUCTURAL SYSTEM FOR THE PROJECT. FLOOR AND WALL FINISHES, TILES, FIXTURES AND ALL OTHER NON-STRUCTURAL COMPONENTS SHALL BE DESIGNED AND/OR SELECTED BY OTHER PROFESSIONALS. THE CONTRACTOR SHALL SHOULDER THE RESPONSIBILITY FOR INSTALLATION, PERFORMANCE, DURABILITY OR MAINTENANCE FOR THESE ITEMS.

19. ALL SUSPENDED CEILING/SOFFIT SYSTEMS (INCLUDING LIGHT FIXTURES) SHALL BE SUPPORTED AS REQUIRED BY THE MANUFACTURER(S). ATTACHMENTS, WIRES, STRUTS AND OTHER SUPPORTS SHALL BE DESIGNED TO RESIST THE CODE REQUIRED WIND (BOTH NEGATIVE AND POSITIVE PRESSURES) AND SEISMIC LOADS PER THE APPLICABLE EDITION OF THE APPROPRIATE BUILDING CODE(S).

20. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR ALL WALL OPENINGS INCLUDING DOORS AND WINDOWS. REFER TO ELECTRICAL AND MECHANICAL PLANS AND/OR REQUIREMENTS FOR SIZE AND LOCATION OF ALL OPENINGS FOR DUCTS, PIPING, CONDUCTS, ETC.

21. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL AND/OR VENDER DRAWINGS FOR LOCATIONS OF DEPRESSED FLOOR AREAS, FLOOR DRAINS, FLOOR TOPPINGS, CMU COURSING AND ANY OTHER DETAILS NOT SHOWN ON THE STRUCTURAL DRAWINGS.

22. THESE STRUCTURAL DRAWINGS ARE BASED ON THE LATEST INFORMATION/ARCHITECTURAL DRAWINGS PRIOR TO THE SUBMITTAL DATE. SOME DIMENSIONS FOUND IN THESE DRAWINGS MAY HAVE BEEN VERBALLY COMMUNICATED BY THE ARCHITECT OR TAKEN DIRECTLY FROM ELECTRONIC FILES SUPPLIED BY THE ARCHITECT. GENERAL CONTRACTOR AND SUBCONTRACTORS ARE ADVISED TO USE THE ARCHITECTURAL DRAWINGS AS THE BASIS FOR THE DIMENSIONS ON THIS PROJECT. TYPICALLY, THE ARCHITECTURAL DRAWINGS ARE CONSIDERED THE LEAD DRAWINGS FOR DIMENSIONING.

23. QUESTIONS RELATING TO THESE STRUCTURAL DRAWINGS MAY BE SUBMITTED IN WRITING, THROUGH THE ARCHITECT OR PRIME PROFESSIONAL TO THE STRUCTURAL ENGINEER. THE STRUCTURAL ENGINEER SHALL BE COPIED AT:

WEATHERLY STRUCTURAL ENGINEERS L.L.C.
514 ALDER STREET, MYRTLE BEACH. SOUTH CAROLINA
PH. (843) 448-3428 - (FAX) (843) 445-9116

GEOTECHNICAL:

1. THIS FOUNDATION DESIGN IS BASED ON AN ALLOWABLE SOIL BEARING PRESSURE OF 2500 PSF. THIS VALUE IS BASED ON INFORMATION PROVIDED IN THE OWNER'S GEOTECHNICAL REPORT BY S&ME. PROJECT NO. 1363-20-017, DATED APRIL 27, 2020.

2. A COPY OF THE GEOTECHNICAL REPORT AND ALL TEST REPORTS SHALL REMAIN ON FILE AT THE JOB SITE AVAILABLE FOR THE DESIGN TEAM. ANY TESTS DEEMED UNACCEPTABLE SHALL BE COPIED AND SENT TO THE ARCHITECT AND STRUCTURAL ENGINEER. THE CONTRACTOR SHALL FORWARD COPIES OF ALL REPORTS TO THE OWNER AS REQUIRED BY THEIR AGREEMENT.

3. ALL FOOTINGS SHALL EXTEND BELOW FROST DEPTH AND DOWN TO SOLID BEARING MATERIAL REGARDLESS OF ELEVATIONS SHOWN. SEE GEOTECHNICAL REQUIREMENTS BY GEOTECHNICAL ENGINEER AS NEEDED FOR PROPER COMPACTION AND PREPARATION OF SOILS.

4. TOP OF ALL SPREAD FOOTINGS SHALL BE A MINIMUM OF 8" BELOW FINISHED GRADE UNLESS NOTED OTHERWISE (UNO).

5. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXCAVATIONS AND SLOPES.

6. THE CONTRACTOR SHALL MAKE THE NECESSARY PROVISIONS FOR DIVERTING SITE DRAINAGE, RAINWATER, STORM WATER, GROUND WATER, SPRINGS, UTILITIES, ETC. AND DEWATERING OF FOUNDATIONS AS PART OF THE FOUNDATION PREPARATION AND INSTALLATION. REFER TO GEOTECHNICAL ENGINEER AS NECESSARY IF ADDITIONAL INFORMATION IS REQUIRED.

7. THE SIDES OF FOUNDATION CONCRETE (FOOTINGS, PILE CAPS, CAISSON CAPS, ETC.) MAY BE EARTH FORMED PROVIDED THE EXCAVATION CAN BE SAFELY KEPT VERTICAL, CLEAN AND STABLE, OTHERWISE, FORMS MUST BE USED. REFER TO GEOTECHNICAL ENGINEER FOR ADDITIONAL INFORMATION AS REQUIRED.

CONCRETE:

1. ALL CONCRETE AND REINFORCING BARS SHALL BE INSTALLED ACCORDING TO STANDARDS SET FORTH BY THE LATEST EDITION OF ACI-318.

2. REINFORCEMENT SHALL BE HELD IN PLACE DURING CONCRETE PLACEMENT. IF REQUIRED, ADDITIONAL BARS MAY BE PROVIDED BY THE CONTRACTOR TO FURNISH SUPPORT FOR ALL BARS.

3. 28 DAY MINIMUM CONCRETE COMPRESSIVE STRENGTH SHALL BE AS FOLLOWS:

FOOTINGS	3000 PSI
SLABS ON GRADE	3000 PSI

NO CALCIUM CHLORIDE SHALL BE USED IN MIX.

4. THE CONTRACTOR SHALL TAKE ADDITIONAL PRECAUTIONS WHEN CONCRETE IS TO BE PLACED AND CURED DURING COLD OR HOT WEATHER. THE CONTRACTOR SHALL FOLLOW THE RECOMMENDATIONS PRESCRIBED BY AMERICAN CONCRETE INSTITUTE FOR COLD OR HOT WEATHER CONSTRUCTION.

5. NO ADDITIONAL WATER SHALL BE ADDED TO THE CONCRETE ABOVE THAT PRESCRIBED IN THE MIX DESIGN UNLESS APPROVED BY THE ARCHITECT OR STRUCTURAL ENGINEER.

6. REINFORCING STEEL: ASTM A 615, GRADE 60, MINIMUM LAP IN CONCRETE SHALL BE IN ACCORDANCE W/ ACI-318.

7. WELDED WIRE FABRIC SHALL BE LAPPED A MINIMUM OF 1'-0".

8. ALL PLUMBING SLOTS SHALL BE FILLED WITH CONCRETE TO THE SAME DEPTH AS THE FLOOR SLAB AFTER PIPING IS INSTALLED.

9. THE CONTRACTOR/ SUBCONTRACTORS SHALL NOT FIELD BEND REINFORCING BARS.

10. EXTERIOR CONCRETE PADS SHALL BE SIZED AND LOCATED PER THE CONTRACT DOCUMENTS AND/OR EQUIPMENT SPECIFICATIONS. PLEASE SEE DRAWINGS BY ARCHITECT AND/OR MECHANICAL/ELECTRICAL ENGINEERS IN ADDITION TO THE STRUCTURAL AND ARCHITECTURAL DRAWINGS.

11. POST-INSTALLED ANCHORS MAY ONLY BE USED AS SPECIFIED IN THE STRUCTURAL DRAWINGS. APPROVAL MUST BE OBTAINED FROM THE ENGINEER-OF-RECORD FOR REPLACING MISPLACED OR MISSED ANCHORS/ ANCHOR BOLTS. APPROPRIATE CARE SHALL BE GIVEN IN DRILLING AND PLACING ANCHORS TO MISS EXISTING REINFORCEMENT. ANCHORS SHALL BE INSTALLED PER THE MANUFACTURERS INSTRUCTIONS/ RECOMMENDATIONS.

12. PROVIDE PROPERLY TIED SPACERS, CHAIRS, BOLSTERS, ETC, AS REQUIRED AND NECESSARY TO ASSEMBLE, PLACE AND SUPPORT ALL REINFORCING. USE WIRE BAR TYPE SUPPORTS COMPLYING WITH CRSI RECOMMENDATIONS-USE PLASTIC TIP LEGS ON ALL EXPOSED CONCRETE.

13. SEE ARCHITECTURAL DRAWINGS FOR REQUIRED CONCRETE FINISH/COLOR, SPECIAL FLATNESS REQUIREMENTS, ETC. ALL CONCRETE SHALL BE PROPERLY CURED IMMEDIATELY AFTER FINISHING.

14. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE PROPER DESIGN OF ALL TEMPORARY FRAMEWORK, FORMS AND SHORING.

15. A QUALIFIED TESTING LABORATORY SHALL BE RETAINED TO COLLECT CYLINDERS AND PERFORM THE NECESSARY CONCRETE TESTS. A MINIMUM OF FOUR CYLINDERS SHALL BE TAKEN FOR EVERY 50 CUBIC YARDS (OR FRACTION THEREOF)OF EACH CONCRETE TYPE/STRENGTH SUPPLIED. THE CONCRETE CYLINDERS SHALL BE TAKEN AFTER WATER AND ADMIXTURES (IF ANY) ARE ADDED TO THE MIX. IT IS RECOMMENDED THAT ONE CYLINDER SHALL BE TESTED AT 7 DAYS, TWO AT 28 DAYS AND HOLD THE FINAL CYLINDER IN RESERVE. IT IS RECOMMENDED THAT TEST REPORTS SHALL BE SENT DIRECTLY TO THE GENERAL CONTRACTOR, OWNER, ARCHITECT AND STRUCTURAL ENGINEER. ANY CYLINDER BREAKS (INCLUDING 7 AND 14 DAY BREAKS) SHALL BE FLAGGED AND BROUGHT TO THE ATTENTION OF THE APPROPRIATE DESIGN PROFESSIONAL.

16. 4" SLAB ON GRADE SHALL BE REINFORCED WITH W6X6-W1.4 x W1.4 WWF ON PROPERLY PREPARED BASE MATERIAL WITH VAPOR BARRIER. THE CONTRACTOR SHALL REFER TO THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS FOR SPECIFICS RELATING TO SLAB SUPPORT, LOCATION OF VAPOR BARRIER AND ANY OTHER "UNDER SLAB" REQUIREMENTS. A 4" SLAB IS TYPICALLY FOR "DOMESTIC OR LIGHT COMMERCIAL" APPLICATIONS WITH FLOOR LOADINGS UP TO 100 PSF. SLAB THICKNESS SHOULD BE INCREASED IN THE EVENT THERE IS A NEED FOR HEAVIER FLOOR LOADINGS- CONTRACTOR SHALL VERIFY FLOOR LOADS WITH OWNER AND EQUIPMENT SUPPLIERS, ETC. PRIOR TO BASE AND SLAB PLACEMENT. IN THESE AREAS THE SLAB SHALL BE THICKENED TO ACCOMMODATE THE LOADS. SEE CONSTRUCTION DOCUMENTS FOR LOCATIONS OF SLABS AND "BASIC" OR MINIMUM SLAB THICKNESS.

17. THE CONTRACTOR, CONCRETE SUPPLIERS AND ALL RELATED SUBCONTRACTORS SHALL BE EXPERIENCED IN THE USE OF CONCRETE ADMIXTURES, SEALERS, CURING COMPOUNDS, ETC. AS SPECIFIED IN THE CONTRACT DOCUMENTS OR IN THE CONCRETE MIX.

18. UNLESS SPECIFIED OTHERWISE, THE CONTRACTOR SHALL SPACE SLAB JOINTS NOT EXCEED 36 TIMES THE SLAB THICKNESS PER ACI (AMERICAN CONCRETE INSTITUTE). THE WIDTH TO LENGTH OF JOINTED SECTIONS SHALL NOT EXCEED THE RATIO OF 1 TO 1-1/2.

MASONRY:

1. THE MASONRY DIMENSIONS ON THIS PROJECT ARE CONSIDERED AS NOMINAL DIMENSIONS. THE SHAPE AND ACTUAL SIZE OF THE MASONRY UNITS SHALL BE CONSIDERED IN THE BUILDING AND WALL LAYOUT PLAN.

2. FOR ALL BEAM/JOIST GIRDERS BEARING INTO (ONTO) MASONRY WALLS, THE CONTRACTOR SHALL FILL ALL MASONRY CELLS BELOW THE BEARING CONDITION (BEARING PLATES AND CAST-IN-PLACE PILLOW BEAMS) WITH 2500 PSI GROUT. A #5 BAR SHALL BE PLACED IN EACH OF THESE CELLS DOWN TO THE FOUNDATION (OR FLOOR LINE FOR ELEVATED SLABS).

3. ALL LINTEL BEAMS TO BEAR A MINIMUM OF 16" ON EACH SIDE OF ALL OPENINGS GREATER THAN ONE FOOT IN WIDTH. ALL CELLS UNDER BEARING CONDITION SHALL BE REINFORCED WITH WALL REBAR IN EACH CELL. BARS SHALL EXTEND DOWN TO FOUNDATION (OR FLOOR FOR ELEVATED SLABS. HOOKED DOWELS SHALL BE PLACED IN ALL MASONRY BOND BEAMS. THESE BARS SHALL BE OF SUFFICIENT LENGTH TO LAP WITH THE VERTICAL BARS IN THE MASONRY WALL ABOVE.

4. FILL ALL CELLS BELOW FLOOR LEVEL OR CONTAINING REBAR WITH 2500 PSI GROUT. GROUT SHALL BE PLACED IN LIFTS NO HIGHER THAN 5 FEET. MASONRY UNITS SHALL BE CLEAN AND DRY.

5. THE CONTRACTOR SHALL INSTALL SUFFICIENT REBAR PLACEMENT WALL TIES TO ENSURE THE PROPER PLACEMENT OF ALL HORIZONTAL AND VERTICAL REBAR.

6. ALL MASONRY ACCESSORIES (INCLUDING LINTEL PLATES AND ANGLES) SHALL BE GALVANIZED. HORIZONTAL BED JOINT REINFORCEMENT SHALL BE GALVANIZED AS REQUIRED BY APPLICATION, MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE BUILDING CODES. ALL LINTEL PLATES AND ANGLES SHALL HAVE A MINIMUM THICKNESS OF 3/8" THICK UNLESS OTHERWISE NOTED.

7. THE GENERAL CONTRACTOR SHALL SUBMIT REBAR SHOP DRAWINGS SHOWING NUMBER, SIZE AND LOCATION, INCLUDING BAR LISTS AND DIAGRAMS, TO THE ARCHITECT FOR APPROVAL. TO PREVENT DELAY IN THE APPROVAL PROCESS, THE STRUCTURAL DRAWINGS SHALL NOT BE DUPLICATED IN THE SHOP DRAWING PROCESS. TO PREVENT A POSSIBLE DELAY IN CONSTRUCTION, SHOP DRAWINGS SHOULD BE SUBMITTED WITH AMPLE TIME FOR APPROVAL AND FABRICATION.

THE STRUCTURAL DRAWINGS ARE NOT TO BE REPRODUCED FOR SHOP DRAWINGS, SECTION SHEETS OR ERECTION PLANS. THE CONTRACTOR SHALL SUBMIT AN AMPLE NUMBER OF SETS OF SHOP DRAWINGS TO ALLOW FOR EACH DESIGN PROFESSIONAL TO RETAIN A SET FOR THE FILE. SHOP DRAWINGS SHALL BE REVIEWED AND APPROVED BY THE CONTRACTOR FOR (BUT NOT LIMITED TO) DIMENSIONS, ELEVATIONS, AND ERECTION PROCEDURES PRIOR TO ARCHITECT & STRUCTURAL ENGINEER'S REVIEW. AMPLE TIME, AS DETERMINED BY THE STRUCTURAL ENGINEER, SHALL BE ALLOTTED FOR HIS REVIEW OF SHOP DRAWINGS. THE CONTRACTOR MAY ISSUE SHOP DRAWINGS EARLY IN THE SCHEDULE TO ALLOW FOR ADDITIONAL FABRICATION TIME. THE MEMBERS OF THE DESIGN TEAM SHOULD RECEIVE A FINAL SET OF SHOP DRAWINGS STAMPED "FINAL SHOP DRAWINGS - FILE SET" WHICH INCORPORATES ANY COMMENTS MADE DURING THE SHOP DRAWING PROCESS AND SHALL BE STAMPED BY A REGISTERED ENGINEER REGISTERED IN THE PROJECT STATE.

8. MASONRY REBAR LAP SPLICES SHALL BE:

#4 BARS = 24" LAP
#5 BARS = 30" LAP
#6 BARS = 48" LAP
#7 BARS = 60" LAP
#8 BARS = 90" LAP

9. CONCRETE MASONRY TO HAVE A MINIMUM F'm OF 1500 PSI. THIS IS TO BE ACHIEVED BY USING A CONCRETE BLOCK MASONRY UNIT WITH A NET AREA COMPRESSIVE STRENGTH OF 2000 PSI WHEN USED IN CONJUNCTION WITH TYPE M OR S MORTAR.

10. ALL MASONRY SHALL BE PLACED IN FULL MORTAR BED. ALL MORTAR SHALL BE TYPE "M" OR "S".

11. THE INTERSECTION OF ALL LOAD BEARING MASONRY WALLS SHALL BE TIED OR ATTACHED AT INTERSECTIONS OR WHERE THEY MEET BY ONE OF THE FOLLOWING METHODS:

A. STEEL CONNECTIONS: WALLS SHALL BE ANCHORED AT INTERSECTIONS USING 2" WIDE X 0.25" THICK BY 24" LONG STRAPS (GALVANIZED) PLUS A 2"-90 DEGREE BEND AT EACH END. STEEL STRAPS SHALL BE PLACED IN MORTAR BEDS AT 48" ON CENTER VERTICALLY.

B. BONDING OF UNITS: FIFTY PERCENT OF THE MASONRY UNITS SHALL BE LAID IN AN OVERLAPPING PATTERN. MASONRY UNITS FORMING THE BONDING PATTERN SHALL BEAR NO LESS THAN 3 INCHES ON THE UNITS BELOW.

C. JOINT REINFORCEMENT: INTERSECTING WALLS MAY BE JOINED USING MASONRY WALL REINFORCEMENT SPACED AT 8 INCHES ON CENTER VERTICALLY. THE WIRE SIZE SHALL BE AT LEAST W1.7 AND EXTEND AT LEAST 30 INCHES FROM THE INTERSECTION.

NOTE: FOR APPLICATIONS WHERE INDEPENDENT FIRE WALLS ARE USED, INTERSECTING WALLS SHALL NOT BE TIED TO THESE FIRE WALLS TO ALLOW THE FREESTANDING FIRE WALLS TO REMAIN INTACT IN THE EVENT OF A FIRE.

NOTE: NON-LOAD BEARING MASONRY PARTITION WALLS SHALL BE TIED TO ONE ANOTHER BUT NOT TIED TO LOAD BEARING MASONRY WALLS.

12. THE CONTRACTOR SHALL TAKE ADDITIONAL PRECAUTIONS WHEN MASONRY IS TO BE CONSTRUCTED DURING COLD WEATHER (AMBIENT TEMPERATURE BELOW 40 DEGREES FAHRENHEIT). DURING HOT CONDITIONS (ABOVE 90 DEGREES) PRECAUTIONS SHALL BE TAKEN TO MINIMIZE EXCESS HEAT IN THE MASONRY UNITS, WATER AND MORTAR. IT IS ADVISED THAT THE CONTRACTOR FOLLOW THE RECOMMENDATIONS PRESCRIBED BY AMERICAN CONCRETE ASSOCIATION FOR COLD OR HOT WEATHER CONSTRUCTION.

13. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF MASONRY WALLS NOT SHOWN ON THE STRUCTURAL DRAWINGS.

14. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF MASONRY CONTROL JOINTS & BRICK EXPANSION JOINTS. ALL CONTROL JOINTS AND EXPANSION JOINTS SHALL BE INSTALLED IN ACCORDANCE TO THE STANDARDS SET FORTH BY THE NATIONAL CONCRETE MASONRY ASSOCIATION. IN NO CASE SHALL EXTERIOR WALL JOINTS BE SPACED GREATER THAN 25 FEET ON CENTER AND INTERIOR WALL JOINTS SHALL NOT EXCEED 30 FEET ON CENTER. REINFORCED BOND BEAMS LOCATED AT ROOF AND/OR FLOOR DIAPHRAGMS SHALL BE CONTINUOUS THROUGH MASONRY JOINTS UNLESS OTHERWISE SPECIFIED IN THE STRUCTURAL DRAWINGS.

15. RUNNING BOND MASONRY TO HAVE 9 GAGE LADDER TYPE JOINT REINFORCEMENT @ 16" ON CENTER VERTICALLY. PREFORMED BED JOINT REINFORCEMENT SHALL BE USED AT ALL WALL CORNERS AND INTERSECTIONS. ALL GAGE WIRE LADDER TYPE BED JOINT REINFORCEMENT SHALL BE LAPPED A MINIMUM OF 8 INCHES.

16. ALL NON LOAD BEARING MASONRY WALLS SHALL BE SUPPORTED AT THE TOP TO RESIST LATERAL FORCES AT 8 FEET ON CENTER (MAX). THIS SHALL BE ACHIEVED BY INSTALLING 3 X 3 X 1/4" VERTICAL ANGLES FROM THE TOP OF THE MASONRY WALLS TO THE BOTTOM OF THE STRUCTURE ABOVE. THE ANGLES SHALL BE RIGIDLY ATTACHED TO THE UNDERSIDE OF THE STRUCTURAL SYSTEM AND KICKERS SHALL BE USED TO LATERALLY STABILIZE THESE VERTICAL ANGLES. THE STEEL ATTACHMENT TO THE TOP OF THE MASONRY WALLS SHALL BE SLOTTED TO ALLOW FOR VERTICAL MOVEMENT (DEFLECTION) OF THE ABOVE STRUCTURE WITHOUT IMPARTING A LATERAL LOAD TO THE TOP OF THE MASONRY WALLS. ADDITIONAL ANGLES MAY REQUIRED TO PROVIDE ATTACHMENT FOR THE VERTICAL ANGLE TO THE FRAMING ABOVE DEPENDING ON PLACEMENT OF THE STRUCTURAL FRAMING.

17. CONTRACTOR SHALL INSTALL BOND BEAMS AT A MAXIMUM OF 4 FEET ON CENTER (AS MEASURED FROM THE TOP OF FOUNDATION) IN ALL LOAD BEARING MASONRY BLOCK WALLS AND SHEAR WALLS. FOR ALL NON-LOAD BEARING WALLS, BOND BEAMS MAY BE SPACED AT A MAXIMUM OF 8 FEET ON CENTER AS MEASURED FROM THE TOP OF FOUNDATION. 8" WIDE BOND BEAMS SHALL CONTAIN TWO #5 BARS. 12" WIDE BOND BEAMS SHALL CONTAIN TWO #6 BARS. THE CONTRACTOR MAY PLACE ELECTRICAL BOXES IN BOND BEAMS PROVIDED THE REBAR IS CONTINUOUS. AS A CONTRACTORS OPTION-DUE TO ELECTRICAL OUTLETS, SWITCHES AND OTHER BOXES LOCATED IN THE MASONRY BLOCK, THE CONTRACTOR MAY LOWER (OR RAISE) THE ELEVATION OF THE BOND BEAMS AS NEEDED TO MISS THESE (AND OTHER) BOXES-IN ANY CASE THE VERTICAL SPACING SHALL NOT EXCEED 48" ON CENTER. REINFORCED BOND BEAMS LOCATED AT ROOF AND/OR FLOOR DIAPHRAGMS SHALL BE CONTINUOUS THROUGH MASONRY JOINTS UNLESS OTHERWISE SPECIFIED IN THE STRUCTURAL DRAWINGS.

ANCHORED VENEER:

1. THE MASONRY DIMENSIONS ON THIS PROJECT ARE CONSIDERED AS NOMINAL DIMENSIONS. THE SHAPE AND ACTUAL SIZE OF THE MASONRY UNITS SHALL BE CONSIDERED IN THE BUILDING AND WALL LAYOUT PLAN.

2. ALL ANGLE LINTELS SUPPORTING MASONRY VENEERS SHALL BEAR A MINIMUM OF 6 INCHES.

3. FILL ALL VOIDS BELOW EXTERIOR GRADE WITH 2500 PSI GROUT.

4. ALL LINTEL PLATES AND ANGLES SHALL BE GALVANIZED WITH A MINIMUM THICKNESS OF 3/8" THICK UNLESS OTHERWISE NOTED.

5. ALL MORTAR SHALL BE TYPE "M" OR "S".

6. THE CONTRACTOR SHALL TAKE ADDITIONAL PRECAUTIONS WHEN ANCHORED VENEERS ARE TO BE CONSTRUCTED DURING COLD WEATHER (AMBIENT TEMPERATURE BELOW 40 DEGREES FAHRENHEIT). DURING HOT CONDITIONS (ABOVE 90 DEGREES) PRECAUTIONS SHALL BE TAKEN TO MINIMIZE EXCESS HEAT IN THE VENEER UNITS, WATER AND MORTAR.

7. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF CONTROL & EXPANSION JOINTS. ALL CONTROL JOINTS AND EXPANSION JOINTS SHALL BE INSTALLED IN ACCORDANCE TO THE STANDARDS SET FORTH BY THE NATIONAL CONCRETE MASONRY ASSOCIATION. IN NO CASE SHALL EXTERIOR WALL JOINTS BE SPACED GREATER THAN 25 FEET ON CENTER AND INTERIOR WALL JOINTS SHALL NOT EXCEED 30 FEET ON CENTER.

8. GALVANIZED SEISMIC METAL TIES SHALL BE USED IN THE WALL ASSEMBLY TO TIE THE VENEER BACK TO THE WALL SYSTEM. THESE TIES SHALL BE SPACED NO FURTHER THAN AT 16" ON CENTER VERTICALLY AND HORIZONTALLY. A CONTINUOUS SINGLE-WIRE JOINT REINFORCEMENT OF MINIMUM WIRE SIZE OF W1.7 SHALL BE INSTALLED IN THE BED JOINTS AND ATTACHED TO THE BRICK TIES. FOR OPENINGS THE BRICK TIES MAY NOT BE SPACED FURTHER THAN 16 INCHES ON CENTER AND 12 INCHES FROM EDGE OF OPENING. FOR ARCHES AND LINTELS WITH MASONRY FORMING THE HEAD OF THE OPENING, THE CONTRACTOR SHALL INSTALL MASONRY TIES AT EACH BRICK JOINT TO ADEQUATELY SUSPEND/SUPPORT THE BRICK IN PLACE AS INTENDED IN THE ARCHITECTURAL DRAWINGS.

WOOD/LUMBER:

1. ALL WOOD FRAMING MEMBERS INCLUDING TOP AND BOTTOM WALL PLATES SHALL BE SOUTHERN YELLOW PINE (OR BETTER). ALL WOOD STUDS SHALL BE SPRUCE PINE FIR (SPF) #2 OR BETTER. MANUFACTURED BEAMS, ARCHES, LINTELS, ETC. SHALL BE AS SPECIFIED IN THE DESIGN DOCUMENTS OR PER OUTSIDE ENGINEER LICENSED IN THE PROJECT STATE.

2. ALL LUMBER SHALL BE CONTINUOUS WITHOUT SPLICES EXCEPT AS INDICATED ON THE DRAWINGS.

3. FOR BUILDINGS LOCATED WITHIN 3000 FEET OF SALT WATER-ALL NAILS IN EXTERIOR WALLS AND ROOF SHALL BE ADEQUATELY GALVANIZED.

4. SEE ARCHITECTURAL DRAWINGS AND CODE REQUIREMENTS FOR LOCATIONS OF TREATED AND FIRE RETARDANT WOOD AND PLYWOOD.

5. UNLESS OTHERWISE SPECIFIED IN THE DRAWINGS, ALL NAILING TO MEET STANDARDS SET FORTH BY THE LATEST EDITION OF THE APPLICABLE BUILDING CODE AS A MINIMUM.

6. CLEARANCE BETWEEN WOOD MEMBERS AND OUTSIDE GRADE SHALL NOT BE LESS THAN 6" EXCEPT WHERE SIDING, SHEATHING AND WALL FRAMING ARE OF APPROVED PRESSURE TREATED WOOD OR APPROVED NATURALLY DURABLE WOOD.

7. ALL ROOFING PLYWOOD DECKING TO BE 5/8" EXTERIOR GRADE. ALL PLYWOOD DECKING SHALL BE GLUED AT ALL SUPPORTS AND ATTACHED WITH A NAILING PATTERN OF 8d NAILS @ 6" ON CENTER ALONG EDGES AND 12" ON CENTER ALONG INTERMEDIATE SUPPORTS/RAFTERS. ALL SEAMS SHALL BE BLOCKED.

8. WHERE CEILING JOISTS ARE NOT PARALLEL TO ROOF RAFTERS, SUBFLOORING OR METAL STRAPS ATTACHED TO THE ENDS OF THE RAFTERS SHALL BE INSTALLED IN A MANNER TO PROVIDE A CONTINUOUS HORIZONTAL TIE ACROSS THE BUILDING THEREBY PREVENTING THE ROOF RAFTERS TO SPREAD. WHERE CEILING JOISTS ARE NOT PROVIDED AT THE TOP OF THE RAFTER SUPPORT WALLS, THE RIDGE FORMED BY THESE RAFTERS SHALL BE SUPPORTED BY A PROPERLY DESIGNED RIDGE BEAM.

9. ENDS OF ALL ROOF RAFTERS SHALL BE ANCHORED WITH WIND UPLIFT ANCHORS BY SIMPSON OR EQUAL. SUCH ANCHORS SHALL BE USED @ JOINTS BETWEEN PLATES, STUDS AND SILL PLATES TO PROVIDE AN UNBROKEN PATH OF UPLIFT RESISTANCE FROM THE ROOF TO THE FOUNDATION.

10. PROVIDE SOLID BLOCKING BETWEEN ALL JOISTS AT ALL LINES OF JOIST SUPPORT EVEN IF NOT SHOWN IN THE SECTIONS/DETAILS. BLOCKING MAY NOT BE SHOWN IN THE STRUCTURAL SECTIONS/DETAILS FOR CLARITY.

11. WOOD FRAMING USED TO FORM AND SUPPORT CEILINGS, CEILING FEATURES, SOFFITS AND THE LIKE SHALL BE CONSTRUCTED BY EXPERIENCED CARPENTERS IN THIS TYPE OF WORK. IN NO CASE SHALL THE STRUCTURAL INTEGRITY OF A CONNECTION BE RELIED UPON BY USING NAILS IN TENSION.

12. ALL BUILT-UP BEAMS/LINTELS OF WOOD, PLYWOOD AND/OR LAMINATED MEMBERS SHALL BE GLUED AND NAILED TOGETHER. BEAMS/LINTELS CONSTRUCTED USING STEEL FLITCH PLATES SHALL BE CONSTRUCTED WITH 5/8" DIAMETER THRU-BOLTS AT 12" ON CENTER (STAGGERED).

13. AS PART OF THE WOOD FRAMING, THE FRAMER SHALL MAKE THE NECESSARY PROVISIONS FOR MECHANICAL UNITS; PLATFORMS FOR SERVICING UNITS; AND THE NECESSARY WALKWAYS AND CLEARANCES PER THE APPLICABLE CODE(S). ADDITIONAL WOOD FRAMING MAY BE REQUIRED BY OTHER DESIGN TEAM MEMBERS TO PROVIDE CLOSURE FOR DUCT CHASES, BUILD DOWNS, ETC. SEE DRAWINGS AND REQUIREMENTS BY OTHERS.

14. ENGINEERED WOOD BEAMS SHALL HAVE A MINIMUM "E" VALUE OF 2.000,000 AND AN ALLOWABLE BENDING STRESS OF 2,500 PSI AS A MINIMUM.

PRE-MANUFACTURED WOOD COMPONENTS:

1. ENDS OF ALL ROOF TRUSSES AND RAFTERS SHALL BE ANCHORED WITH WIND UPLIFT ANCHORS BY SIMPSON OR EQUAL. SUCH ANCHORS SHALL BE USED @ JOINTS BETWEEN PLATES, STUDS AND SILL PLATES TO PROVIDE AN UNBROKEN PATH OF UPLIFT RESISTANCE FROM THE ROOF TO THE FOUNDATION.

2. WOOD COMPONENT MANUFACTURER TO COORDINATE ALL DIMENSIONS WITH THE ARCHITECT.

3. CARE SHALL BE TAKEN TO PROPERLY ORIENT AND POSITION ALL WOOD COMPONENTS. LARGE PRE-ENGINEERED WOOD MEMBERS/BEAMS MAY BE MARKED AS TO ORIENTATION.

4. PROVIDE SOLID BLOCKING BETWEEN ALL JOISTS AT ALL LINES OF JOIST SUPPORT EVEN IF NOT SHOWN IN THE SECTIONS/DETAILS. BLOCKING MAY NOT BE SHOWN IN THE STRUCTURAL SECTIONS/DETAILS FOR CLARITY.

5. WOOD FRAMING USED TO FORM AND SUPPORT CEILINGS, CEILING FEATURES, SOFFITS AND THE LIKE SHALL BE CONSTRUCTED BY EXPERIENCED CARPENTERS IN THIS TYPE OF WORK. IN NO CASE SHALL THE STRUCTURAL INTEGRITY OF A CONNECTION BE RELIED UPON BY USING NAILS IN TENSION.

6. ENGINEERED WOOD BEAMS SHALL HAVE A MINIMUM "E" VALUE OF 2.000,000 AND AN ALLOWABLE BENDING STRESS OF 2,500 PSI AS A MINIMUM.

LOAD TABLE

2018 INTERNATIONAL BUILDING CODE AND ASCE 7-16

LIVE LOADS:

1. FLOOR LOADS: (ASCE Table 4-1)
   A. Light Storage = 125 p.s.f.
2. ROOF LOADS:
   A. Basic roof live load = 20 p.s.f.
3. PARTITIONS: (ASCE Section 4.22)
   A. Partition load = 15 p.s.f.

Note: It shall be unlawful to place, cause or permit to be placed, on any floor or roof of a building, structure, or portion thereof, a load greater than is permitted by these requirements. (per IBC 1603.2)

DEAD LOADS:

1. USE ACTUAL DEAD LOADS OF MATERIALS

SNOW LOADS:

GROUND SNOW LOAD - Pg = 10 (ASCE Figure 7-1)
SNOW LOAD IMPORTANCE FACTOR - Is = 1.0 (ASCE Table 7-4)
SNOW EXPOSURE FACTOR - Ce = 1.0 (ASCE Table 7-2)
THERMAL FACTOR - Ct = 1.0 (ASCE Table 7-3)
FLAT-ROOF SNOW LOAD-Pf = 10 p.s.f. (ASCE Section 7.3)

WIND LOADS:

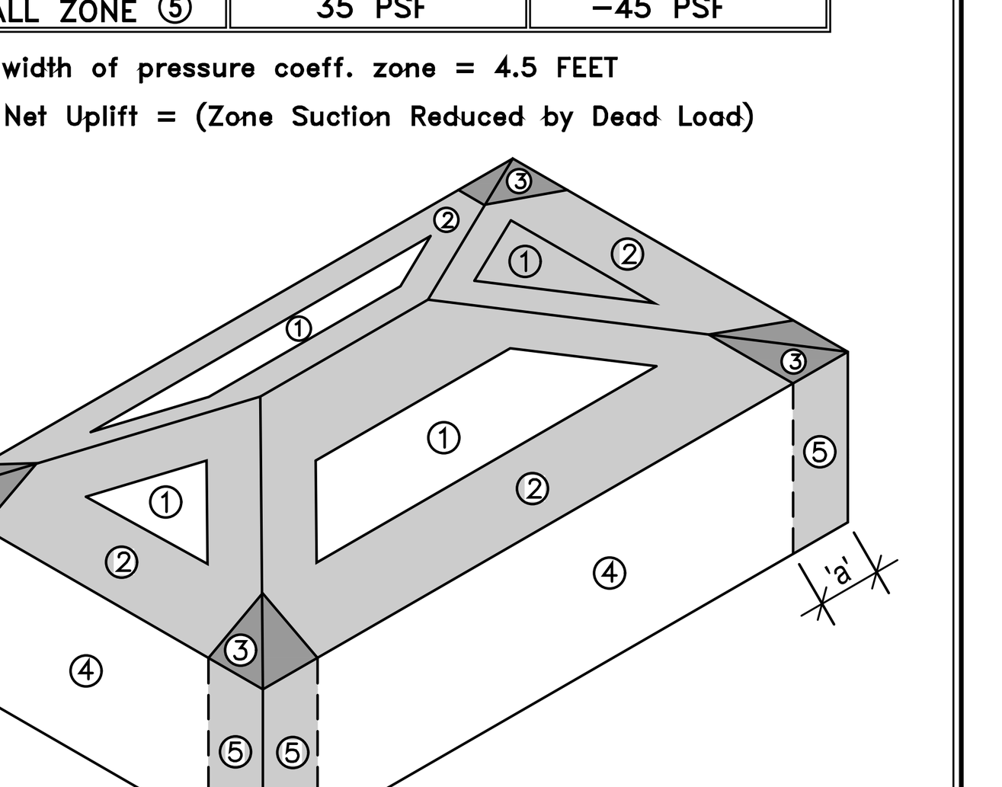
BASIC WIND SPEED (3-SECOND GUST) = 148 (mph) (ASCE Figure 6-1)
BUILDING CATEGORY = II (ASCE Table 1-1)
WIND IMPORTANCE FACTOR - Iw = 1.0 (ASCE Table 6-1)
WIND EXPOSURE = C (ASCE Section 6.5.6)
WIND BORN DEBRIS - YES
If yes, exterior windows and doors shall have debris protection per IBC 1609.1.2.
INTERNAL PRESSURE COEFICIENT
Enclosed Building +/- 0.18 (ASCE Figure 6-5)

1. DESIGN WIND PRESSURES:
   A. Main Windforce Resisting System = 36 PSF (ASCE Section 6.5.12.2)
   B. Components and Cladding (ASCE Section 6.5.12.4)

The wind pressures (and associated DP ratings) indicated below are considered as the minimum unless otherwise specified by code.

ZONE	PRESSURE	SUCTION
ROOF ZONE ①	17 PSF	-32 PSF
ROOF ZONE ②	17 PSF	-49 PSF
ROOF ZONE ③	17 PSF	-49 PSF
WALL ZONE ④	35 PSF	-38 PSF
WALL ZONE ⑤	35 PSF	-45 PSF

a = width of pressure coeff. zone = 4.5 FEET
Roof Net Uplift = (Zone Suction Reduced by Dead Load)



WALL AND ROOF ZONE DIAGRAM (7°< HIP ROOF SLOPE ≤ 27°)

Interior Zones: Roofs - Zone 1, Walls - Zone 4
End Zones: Roofs - Zone 2, Walls - Zone 5
Corner Zones: Roofs - Zone 3

SEISMIC LOADS:

SITE CLASS - D (ASCE Chapter 20)
SPECTRAL RESPONSE ACCELERATIONS (ASCE Figure 22-1 & 22-2)
Ss = 0.397 S1 = 0.137
SPECTRAL RESPONSE COEFFICIENTS (ASCE Section 11.4.4)
Sds = 0.393 Sd1 = 0.212
SEISMIC IMPORTANCE FACTOR - Ie = 1.0 (ASCE Table 11.5-1)
SEISMIC DESIGN CATEGORY = D (ASCE Table 11.6-1 & 11.6-2)
BASIC SEISMIC-FORCE RESISTING SYSTEM= (ASCE Table 12.2-1)
Bearing Wall- SPECIAL REINFORCED MASONRY
SEISMIC RESPONSE COEFFICIENT - Cs = 0.08 (ASCE Section 12.8.1.1)
RESPONSE MODIFICATION FACTOR - R = 5 (ASCE Table 12.2-1)
DESIGN BASE SHEAR - 9 kips (ASCE Section 12.8)
ANALYSIS PROCEDURE - EQUIVALENT FORCE METHOD

Much of the information presented in this load table originates from the applicable building code(s). The structural design for systems such as metal studs, exterior doors,windows, skylights, roofing systems, etc. will likely be more complicated and more building specific than indicated in this table. Designers and suppliers must refer to the applicable building codes, site conditions and architectural drawings to adequately design and / or specify their individual components and systems.

Weatherly
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SOUTH CAROLINA PROFESSIONAL ENGINEER No. 15317 ASHLEIGH BRYAN WEATHERLY REGISTERED 01/22/21
SOUTH CAROLINA WEATHERLY ENGINEERING LLC MYRTLE BEACH, SC No. 5538 CERTIFICATE OF AUTHORIZATION

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WAVERLY PARK

AT
WACCAMAW ELEMENTARY SCHOOL
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PROJECT NUMBER: 19-004-04
ISSUE DATE: 01/22/2021
DRAWN BY: GOS
CHECKED BY: ABW

PERMIT DRAWINGS

Revision Schedule		
#	Description	Date

CONCESSIONS & SCORING TOWER NOTES
S100
WE 20-162

SPECIAL INSPECTION COORDINATOR - Mr. Ashleigh B. Weatherly, P.E.
NOTE: ALL TESTING & INSPECTION REPORTS TO BE TO SENT SPECIAL INSPECTION COORDINATOR
ON A WEEKLY BASIS - ALL REPORTS TO BE IN AN ELECTRONIC FORMAT BY EMAIL.
SPECIAL INSPECTION COORDINATOR WILL SUBMIT CONSOLIDATED REPORT TO BUILDING OFFICIAL ON A WEEKLY BASIS.

STATEMENT OF SPECIAL INSPECTIONS

BUILDING COMPONENTS OR MATERIAL	MATERIAL SUBMITTAL	TESTING REQUIREMENTS	TESTING FREQUENCY	TESTING AGENCY	INSPECTION / MONITORING	INSPECTION FREQUENCY	INSPECTION AGENCY	PART OF WIND QUALITY ASSURANCE	PART OF SEISMIC QUALITY ASSURANCE
SOILS (COMPACTED FILL)	N/A	1. TEST IN PLACE DRY DENSITY OF COMPACTED FILL	1. AS APPROVED GEOTECHNICAL ENGINEER.	A TESTING AGENCY SUITABLE TO THE OWNER	1. DETERMINE SITE IS PREPARED IN ACCORDANCE WITH APPROVED SOILS REPORT PRIOR TO PLACEMENT OF FILL. 2. DURING PLACEMENT AND COMPACTION OF FILL MATERIAL, DETERMINE MATERIAL BEING USED AND MAXIMUM LIFT THICKNESS COMPLIES WITH SOILS REPORT. 3. VERIFY THAT IN PLACE DRY DENSITY TESTS OF COMPACTED FILL COMPLIES WITH SOILS REPORT.	1. PERIODIC 2. PERIODIC 3. CONTINUOUS	AN INSPECTION AGENCY SUITABLE TO THE OWNER	1. COLUMNS AND SHEARWALLS	1. COLUMNS AND SHEARWALLS
CONCRETE FOUNDATIONS	1. SUBMIT CONCRETE MIX DESIGN. 2. SUBMIT FOUNDATION REINFORCEMENT SHOP DRAWINGS. 3. VERIFY PROPER CONCRETE STRENGTH.	1. TEST CONCRETE STRENGTH	1. (1) SET OF CYLINDERS FOR EACH VERTICAL LIFT OR EACH 50 YARDS OF CONCRETE.	A TESTING AGENCY SUITABLE TO THE OWNER	1. VERIFY APPROPRIATE MIX (STRENGTH) PROVIDE: A. REBAR SIZE B. REBAR QUANTITY C. REBAR PLACEMENT	1. PERIODIC	AN INSPECTION AGENCY SUITABLE TO THE OWNER	1. SPREAD FOOTINGS AT BEARING WALLS AND SHEARWALL.	1. SPREAD FOOTINGS AT BEARING WALLS AND SHEARWALL.
CONCRETE MASONRY UNITS	1. SUBMIT TEST DATA ON CMU UNITS NET AREA OF COMPRESSIVE STRENGTH 1900 PSI OR GREATER 2. TYPE 'S' MORTAR GROUT MIX 2000 PSI	1. TEST COMPRESSIVE STRENGTH OF MORTAR & GROUT.	1. (1) SET OF GROUT CUBES FROM EACH FLOOR AND/OR (1) SET OF CUBES FOR EACH 50 YARDS OF GROUT.	A TESTING AGENCY SUITABLE TO THE OWNER	SEE MASONRY INSPECTION CHART	SEE MASONRY INSPECTION CHART	AN INSPECTION AGENCY SUITABLE TO THE OWNER	1. YES	1. YES
WOOD ROOF DIAPHRAGM	1. VERIFY BOLTING, STRAPPING, BRACES AND OTHER HOLD DOWN INFO.	1. NONE	1. NONE	1. NONE	1. EACH DIAPHRAGM WILL BE MONITORED FOR: A. MATERIAL DIMENSIONS B. ATTACHMENT VERIFICATION	1. PERIODIC	AN INSPECTION AGENCY SUITABLE TO THE OWNER	1. YES	1. YES
CONNECTION HARDWARE	1. SUBMIT MANUF. DATA ON CONNECTION HARDWARE IF OTHER THAN SPECIFIED MATERIAL.	1. NONE	1. NONE	1. NONE	1. ALL HARDWARE TO BE MONITORED FOR: A. SPACING B. ATTACHMENT VERIFICATION	1. PERIODIC	AN INSPECTION AGENCY SUITABLE TO THE OWNER	1. YES	1. YES

DEFINITIONS

1. PERIODIC - THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED, AND AT THE COMPLETION OF THE WORK
2. CONTINUOUS - THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED.
3. SET OF CYLINDERS - (5) SPECIMENS MOLDED IN ACCORDANCE WITH ASTM REQUIREMENTS TO PROVIDE COMPRESIVE STRENGTH TEST RESULTS. ***
4. SET OF GROUT CUBES - (3) 2" CUBES MOLDED IN ACCORDANCE WITH ASTM REQUIREMENTS TO PROVIDE COMPRESSIVE STRENGTH TEST RESULTS. ***

*** - THESE ARE THE MINIMUM REQUIREMENTS - SEE GENERAL NOTES FOR ANY PROJECT SPECIFIC REQUIREMENTS FOR ANY CHANGES IN THE TOTAL NUMBER OF SPECIMENS IN A "SET", THE REQUIRED DATES FOR BREAKING THE SAMPLES, AND FIELD OR LAB CURING.

EX. SOME PROJECTS MAY SPECIFIY 7 CYLINDERS IN A SET SO THAT THE BREAKS CAN BE DONE AT 2, 3, 7, (2) @ 28 days, & (2) @ 56 days..

EX. SOME PROJECTS MAY SPECIFIY 5 CUBED IN A SET SO THAT THE BREAKS CAN BE DONE AT 7, (2) @ 28 days, & (2) @ 56 days.

MASONRY INSPECTION FREQUENCY CHART

INSPECTION TASK	FREQUENCY OF INSPECTION: CONTINUOUS DURING TASK LISTED	FREQUENCY OF INSPECTION: PERIODICALLY DURING TASK LISTED
AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:		
1. PROPORTIONS OF SITE-PREPARED MORTAR	—	REQ'D
2. CONSTRUCTION OF MORTAR JOINTS	—	REQ'D
3. LOCATION OF REINFORCEMENT & CONNECTORS	—	REQ'D
THIS INSPECTION PROGRAM SHALL VERIFY:		
A. SIZE & LOCATION OF STRUCTURAL ELEMENTS	—	REQ'D
B. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION	—	REQ'D
C. SPECIFIED SIZE, GRADE & TYPE OF REINFORCEMENT	—	REQ'D
D. PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40 DEG. F.) OR HOT WEATHER (TEMPERATURE ABOVE 90 DEG. F.)	—	REQ'D
PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:		
A. GROUT SPACE IS CLEAN	—	REQ'D
B. PLACEMENT OF REINFORCEMENT AND CONNECTORS	—	REQ'D
C. PROPORTIONS OF SITE PREPARED GROUT	—	REQ'D
D. CONSTRUCTION OF MORTAR JOINTS	—	REQ'D
GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENT PROVISIONS:	REQ'D	—
PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR, SPECIMENS AND/OR PRISMS SHALL BE OBSERVED:	REQ'D	—
COMPLIANCE WITH REQUIRED INSPECTIONS PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED:	—	REQ'D

SEISMIC QUALITY ASSURANCE PLAN

1. THE FOLLOWING SEISMIC SYSTEMS AND SEISMIC-FORCE-RESISTING SYSTEM ARE SUBJECT TO QUALITY ASSURANCE:
   A. MASONRY SHEARWALL REINFORCEMENT.
   B. ATTACHMENT OF ROOF STRUCTURAL SYSTEM TO SHEARWALLS.
   C. INSTALLATION OF SUSPENDED CEILINGS AND THEIR ANCHORAGE.
   D. ANCHORAGE OF ELECTRICAL EQUIPMENT USED FOR EMERGENCY OR STANDBY POWER.
   E. ANCHORAGE OF EXTERIOR WALL PANELS &/OR GLAZING.
2. PROVIDE SPECIAL INSPECTIONS FOR SYSTEMS INDICATED ABOVE AS INDICATED IN SPECIAL INSPECTIONS CHART.
3. TYPE AND FREQUENCY OF TESTING PER CHART.
4. TYPE AND FREQUENCY OF SPECIAL INSPECTIONS SEE CHART.
5. ALL REPORTS TO ARCHITECT, STRUCTURAL ENGINEER AND SPECIAL INSPECTIONS COORDINATOR.
6. PERIODIC STRUCTURAL OBSERVATION WILL BE PERFORMED AT SIGNIFICANT CONSTRUCTION STAGES AND AT THE COMPLETION OF THE STRUCTURAL SYSTEM.
7. STRUCTURAL OBSERVATION REPORTS TO ARCHITECT, STRUCTURAL ENGINEER

CONTRACTORS RESPONSIBILITY

EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A SEISMIC-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM, OR A COMPONENT LISTED IN THE SEISMIC QUALITY ASSURANCE PLAN SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND TO THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN THE FOLLOWING.

1. ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE WIND QUALITY ASSURANCE PLAN.
2. ACKNOWLEDGMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.
3. PROCEDURES FOR EXERCISING CONTROL WITHIN THE THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING AND THE DISTRIBUTION OF THE REPORTS.
4. IDENTIFICATIONS AND QUALIFICATIONS OF PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.

WIND QUALITY ASSURANCE PLAN

1. THE FOLLOWING MAIN WIND FORCE-RESISTING SYSTEMS AND WIND RESISTING COMPONENTS ARE SUBJECT TO QUALITY ASSURANCE:
   A. MASONRY SHEARWALL CONSTRUCTION AND REINFORCEMENT.
   B. ROOF DIAPHRAGM SYSTEMS.
   C. WALL CONNECTIONS TO ROOF DIAPHRAGM AND FRAMING.
   D. GLAZING SYSTEM FABRICATION AND INSTALLATION.
   E. ROOF CLADDING AND ROOF FRAMING COMPONENTS.
2. PROVIDE SPECIAL INSPECTIONS FOR SYSTEMS INDICATED ABOVE AS INDICATED IN SPECIAL INSPECTIONS CHART.
3. TYPE AND FREQUENCY OF TESTING PER CHART.
4. TYPE AND FREQUENCY OF SPECIAL INSPECTIONS SEE CHART.
5. ALL REPORTS TO ARCHITECT, STRUCTURAL ENGINEER AND SPECIAL INSPECTIONS COORDINATOR.
6. PERIODIC STRUCTURAL OBSERVATION WILL BE PERFORMED AT SIGNIFICANT CONSTRUCTION STAGES AND AT THE COMPLETION OF THE STRUCTURAL SYSTEM.
7. STRUCTURAL OBSERVATION REPORTS TO ARCHITECT, STRUCTURAL ENGINEER

CONTRACTORS RESPONSIBILITY

EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN WINDFORCE-RESISTING SYSTEM OR A WIND-RESISTING COMPONENT LISTED LISTED IN THE WIND QUALITY ASSURANCE PLAN SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN THE FOLLOWING.

1. ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE WIND QUALITY ASSURANCE PLAN.
2. ACKNOWLEDGMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.
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SOUTH CAROLINA PROFESSIONAL ENGINEER — Ashleigh B. Weatherly — No. 15317 — 01/22/21 — REGISTERED PROFESSIONAL ENGINEER — ASHLEIGH BRYAN WEATHERLY

WEATHERLY ENGINEERING LLC — SOUTH CAROLINA — MYRTLE BEACH, SC — No. 5538 — CERTIFICATE OF AUTHORIZATION

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PROJECT NUMBER:
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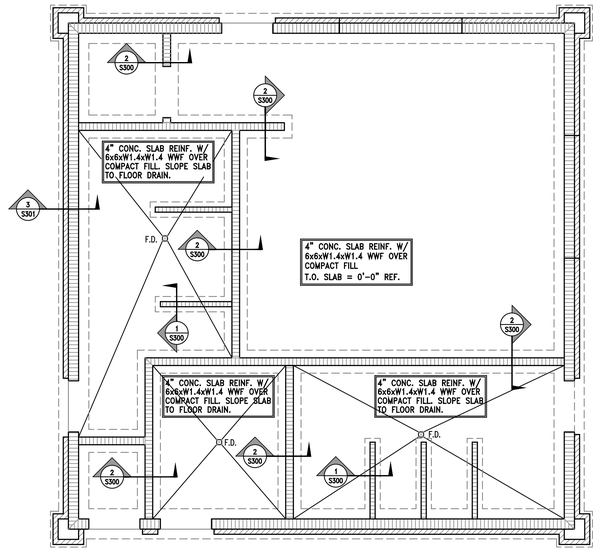
DRAWN BY: GOS
CHECKED BY: ABW

PERMIT DRAWINGS

Revision Schedule		
#	Description	Date

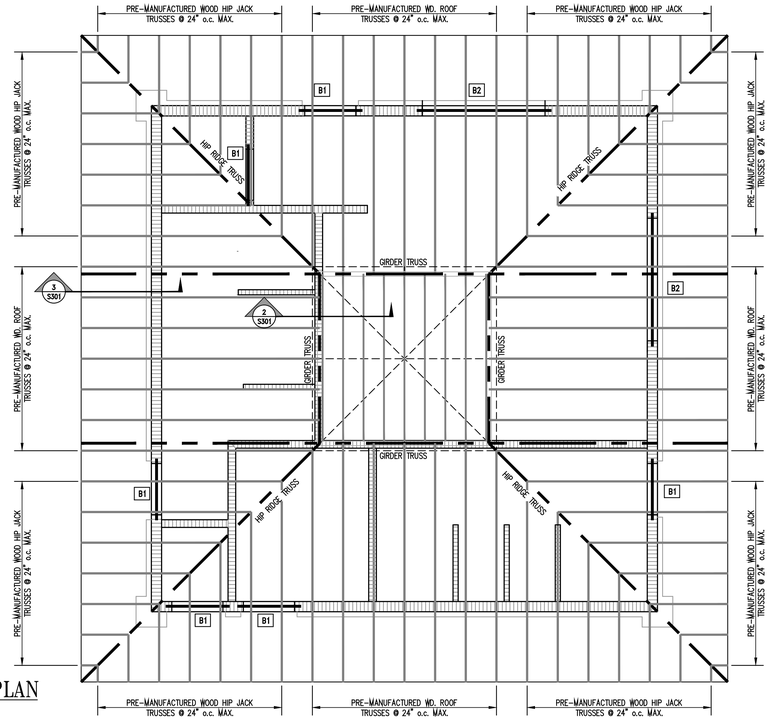
CONCESSIONS & SCORING TOWER NOTES
S101

WE 20-162



FOUNDATION PLAN

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



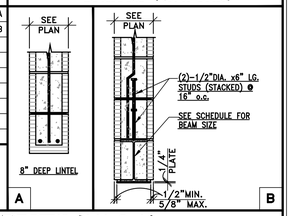
ROOF FRAMING PLAN

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

MASONRY BLOCK LINTEL SCHEDULE

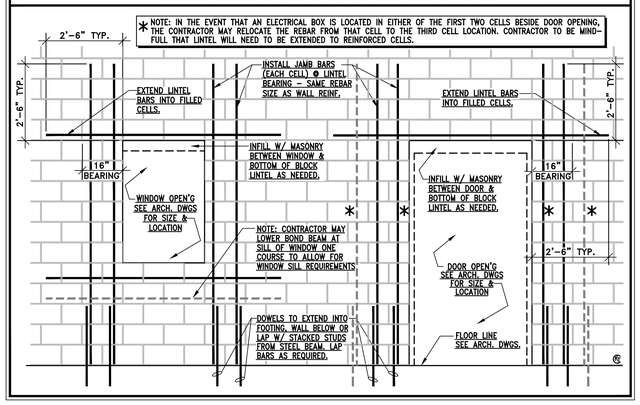
MARK	LINTEL DISCRIPTION	OPENING WIDTH FOR NON-LOAD BEARING WALL	REFERENCE DIAGRAM
B1	8" DEEP BOND BEAM W/ 2-#5 BARS CONT.	6'-0" WIDE MAX.	DIAGRAM A
B2	W 8x10 W/ 1/4" PLATE CONT.	12'-0" WIDE MAX.	DIAGRAM B

DIAGRAMS (Not to Scale)



CONTRACTOR'S NOTE:
1. ALL MASONRY LINTEL BEARING TO BE 16" MIN. ON EACH SIDE.
2. SEE STRUCTURAL PLAN AND ADDITIONAL WALL SECTIONS FOR WALL REINFORCEMENT AND SPACING.
3. SEE TYPICAL BEARING PLATE SCHEDULE AND DETAILS FOR PLATE SIZE AND NUMBER OF ANCHORS.

MASONRY OPENING REINFORCEMENT DETAIL (Not to Scale)



SYMBOL LEGEND

	DENOTES CONTINUOUS THICKENED SLAB.
	DENOTES CONTINUOUS SPREAD FOOTING.
	DENOTES CMU WALL.
	DENOTES BRICK VENEER.
B?	LINTEL DESIGNATION - SEE LINTEL SCHEDULE ON THIS SHEET.
F.D.	DENOTES FLOOR DRAIN. SEE ARCH. DWGS. FOR SLAB SLOPES.

NOTE: SEE SHEET S300 FOR TYPICAL FOUNDATION DETAILS.

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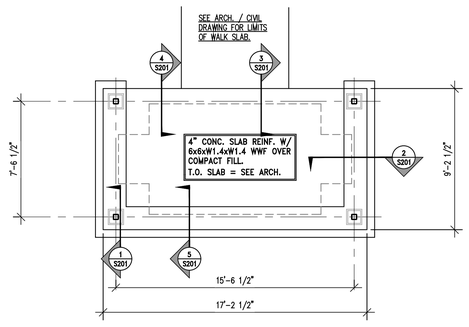
CONCESSIONS
PLANS &
NOTES
S200

WE 20-162



FOUNDATION PLAN

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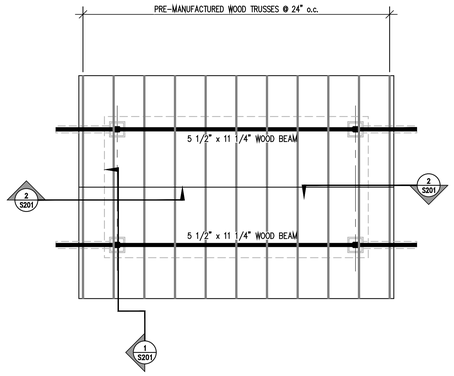
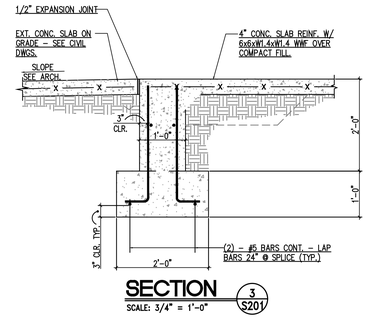


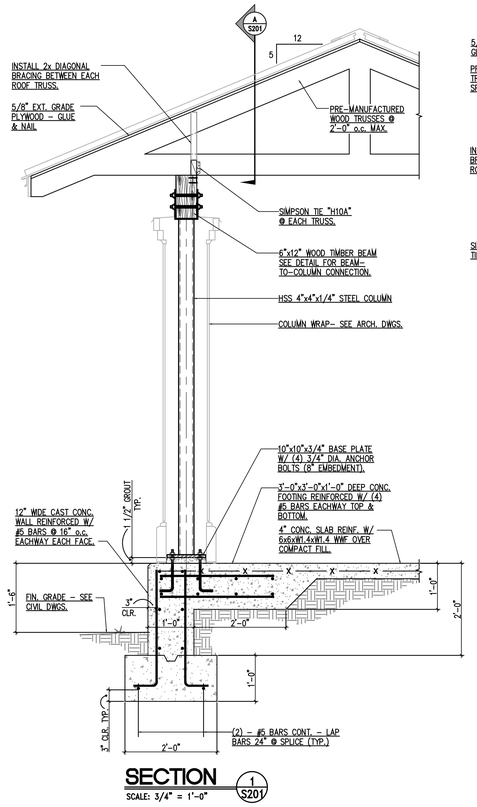
ROOF FRAMING PLAN

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



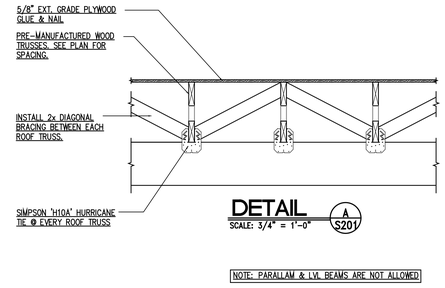
SECTION 3 S201

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



SECTION 1 S201

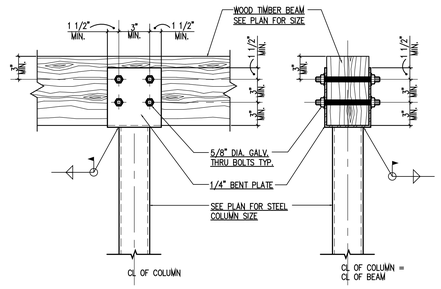
SCALE: 3/4" = 1'-0"



DETAIL

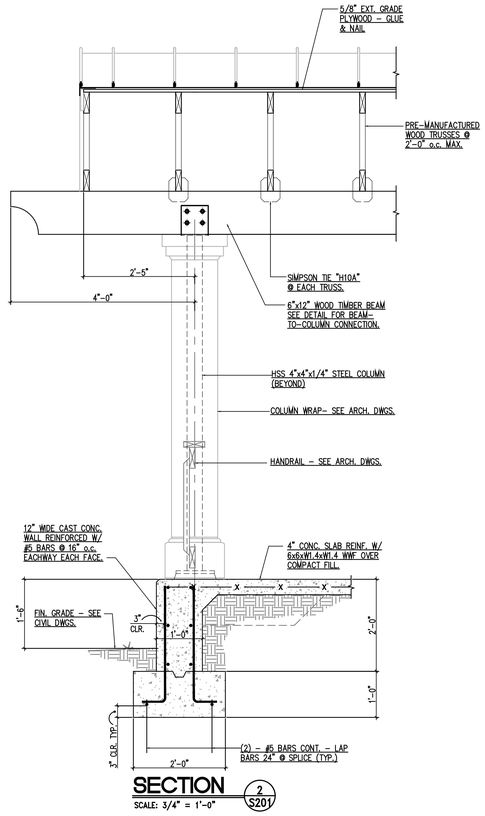
SCALE: 3/4" = 1'-0"

NOTE: PARALLAM & LVL BEAMS ARE NOT ALLOWED



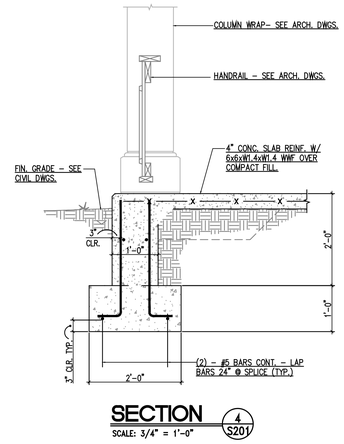
SCALE: 1 1/2" = 1'-0"

TYPCIAL CONNECTION OF WOOD BEAM END TO STEEL COLUMN DETAIL



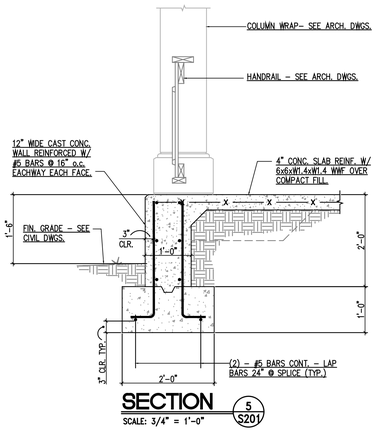
SECTION 2 S201

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



SECTION 4 S201

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



SECTION 5 S201

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

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SCORING TOWER PLANS, SECTIONS & NOTES
S201

WE 20-162

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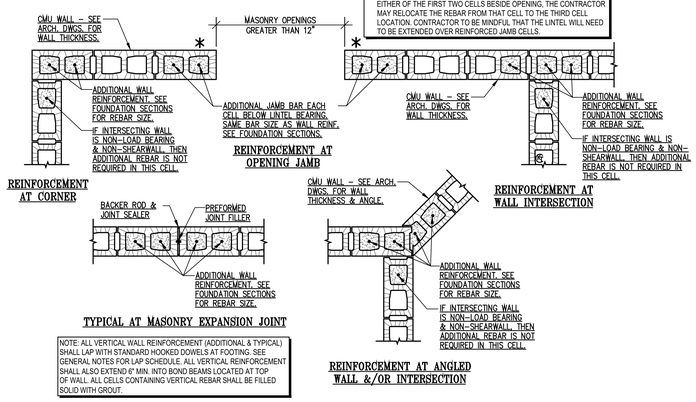
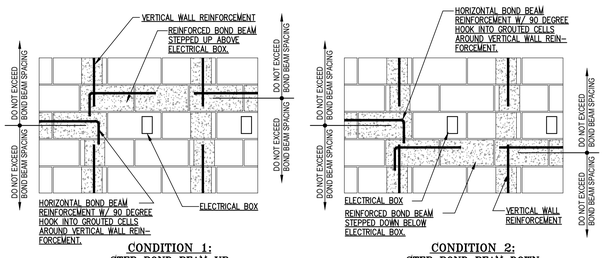


ADDITIONAL REINFORCEMENT DETAILS FOR LOAD-BEARING MASONRY WALLS

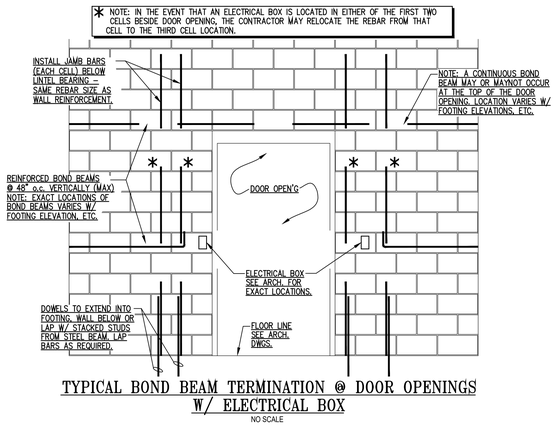
NO SCALE



NOTE: TO AVOID STEPPED BOND BEAMS, THE CONTRACTOR MAY SET BOND BEAM ELEVATIONS CLOSER TOGETHER TO MISS ELECTRICAL AND PLUMBING BOXES. HOWEVER, IN NO CASE, SHALL THE BOND BEAM SPACING EXCEED THE MAXIMUM VERTICAL SPACING AS NOTED IN THE STRUCTURAL DRAWINGS.

TYPICAL STEPPED BOND BEAM @ ELECTRICAL BOX

NO SCALE



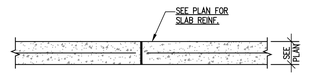
TYPICAL BOND BEAM TERMINATION @ DOOR OPENINGS W/ ELECTRICAL BOX

NO SCALE

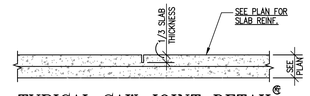
REBAR LAP SPLICES IN REINFORCED MASONRY	
BAR SIZE	REQUIRED LAP
#4 BAR	24" LAP
#5 BAR	30" LAP
#6 BAR	48" LAP
#7 BAR	60" LAP
#8 BAR	90" LAP

MINIMUM CONCRETE COVER

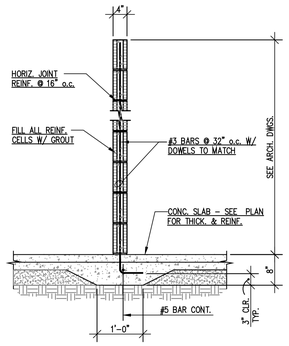
A. CONCRETE CAST AGAINST EARTH:	
1. ALL BARS	3" COVER
B. CONCRETE EXPOSED TO EARTH OR WEATHER	
1. #6 THROUGH #18 BARS	2" COVER
2. #5 BAR AND SMALLER	1-1/2" COVER
C. CONCRETE NOT EXPOSED TO EARTH OR WEATHER	
1. SLABS & WALLS #14 AND #18 BARS	1-1/2" COVER
2. SLABS & WALLS #11 BAR AND SMALLER	3/4" COVER
3. BEAMS & COLUMNS (ALL REINFORCEMENT)	1-1/2" COVER



TYPICAL CONTROL JOINT DETAIL



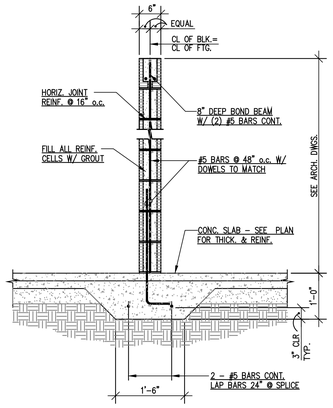
TYPICAL SAW JOINT DETAIL



TYPICAL FOUNDATION DETAIL @ 4" CMU PARTITIONS

SECTION 1 S300

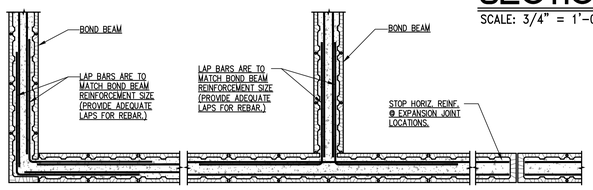
SCALE: 3/4" = 1'-0"



TYPICAL FOUNDATION DETAIL @ 6" CMU PARTITIONS

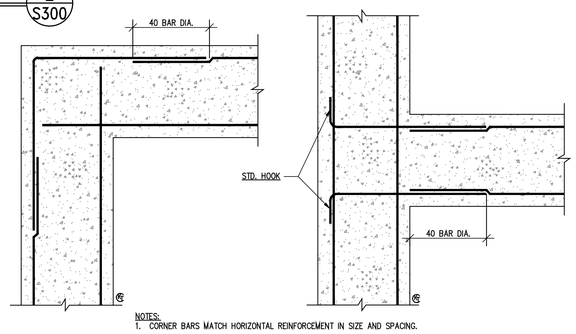
SECTION 2 S300

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



TYPICAL BOND BEAM INTERSECTION DETAILS

NO SCALE



NOTES:
1. CORNER BARS MATCH HORIZONTAL REINFORCEMENT IN SIZE AND SPACING.

TYPICAL REINFORCEMENT DETAIL OF CORNERS AND INTERSECTIONS @ WALL FOOTING

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WAVERLY PARK

AT

WACCAMAW ELEMENTARY SCHOOL
1364 WAVERLY RD.
PAWLEY'S ISLAND, SC 29585

PROJECT NUMBER: 19-004-04
ISSUE DATE: 01/22/2021
DRAWN BY: GOS
CHECKED BY: ABW

PERMIT DRAWINGS

Revision Schedule		
#	Description	Date

CONCESSIONS SECTIONS & DETAILS
S300
WE 20-162

Weatherly STRUCTURAL ENGINEERS
514 Alder Street, Myrtle Beach, South Carolina
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SOUTH CAROLINA PROFESSIONAL ENGINEER No. 15317 01/22/21 LEIGH BRYAN WEATHERLY

SOUTH CAROLINA WEATHERLY ENGINEERING LLC MYRTLE BEACH, SC CERTIFICATE OF AUTHORIZATION No. 5538

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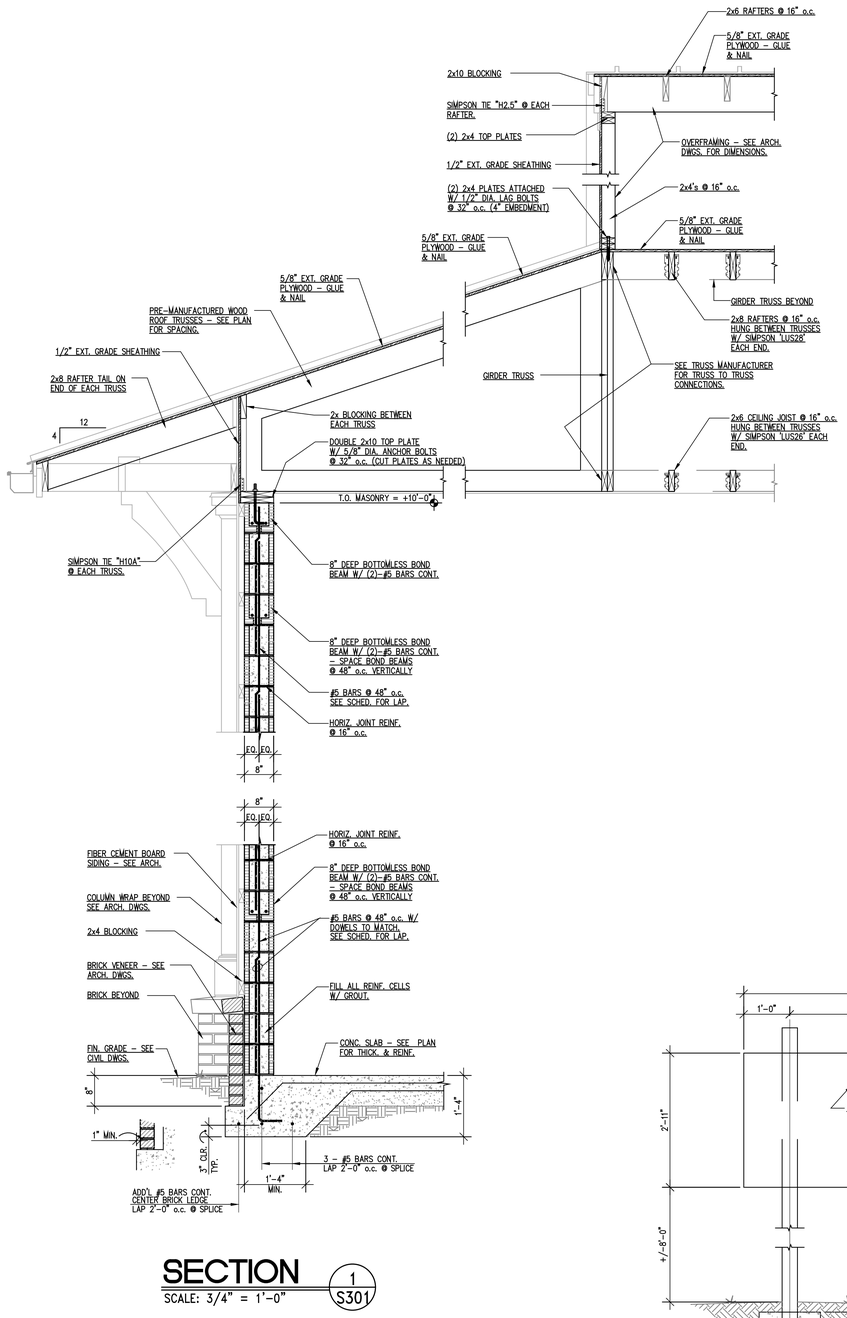
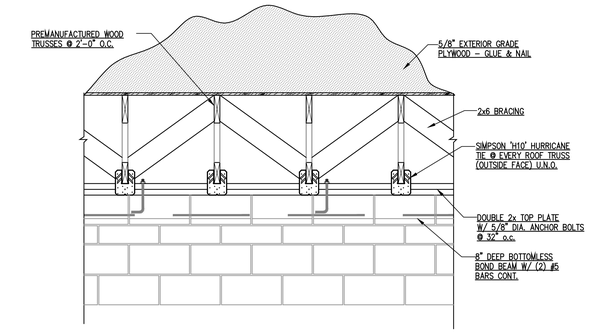
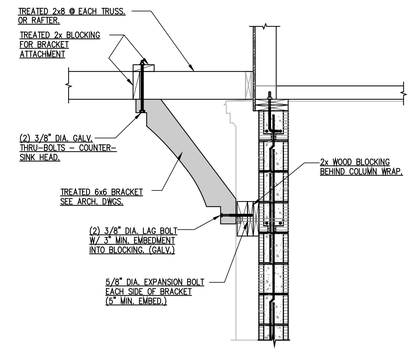


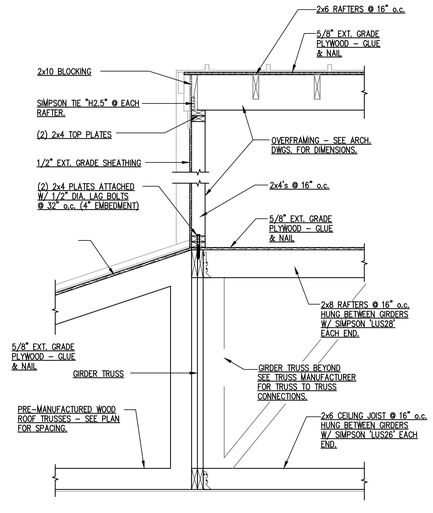
SECTION 1 / S301
SCALE: 3/4" = 1'-0"



TYPICAL ROOF TRUSS BRACING DETAIL @ CMU WALL



TYPICAL NON-STRUCTURAL WOOD BRACKET ATTACHMENT DETAIL
SCALE: 3/4" = 1'-0"



SECTION 2 / S301
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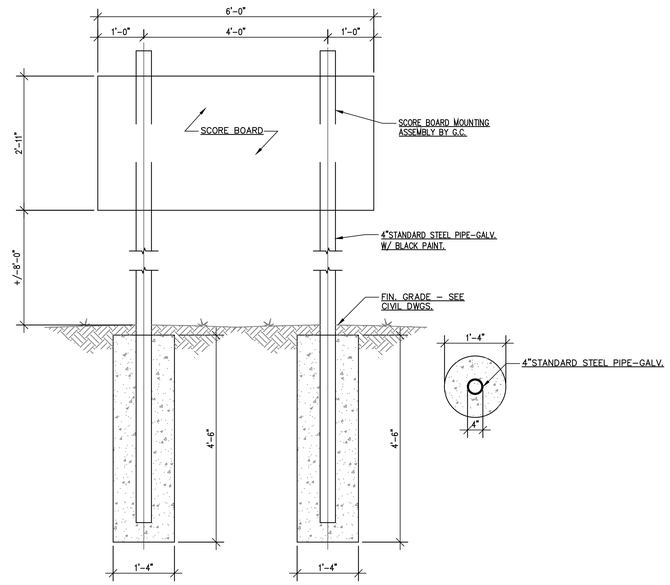
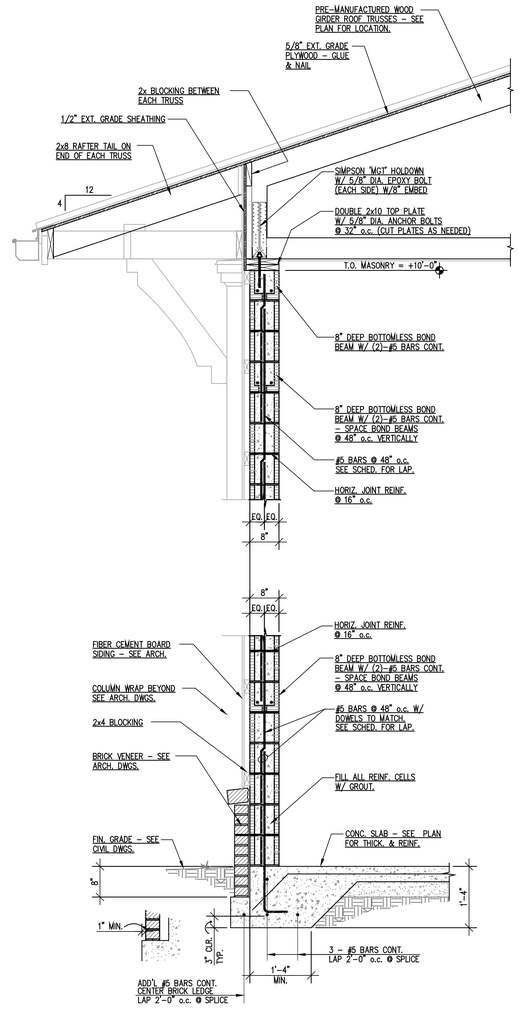


SCORE BOARD FOUNDATION

SECTION 4 / S3.1
SCALE: 1"=1'-0"



TYPICAL GIRDER TRUSS HOLDOWN DETAIL @ CMU WALL

SECTION 3 / S301
SCALE: 3/4" = 1'-0"

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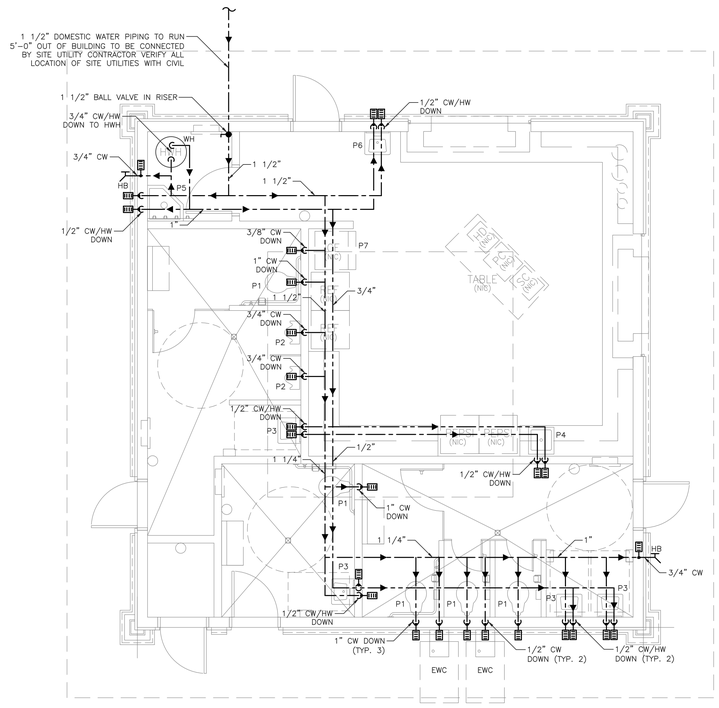
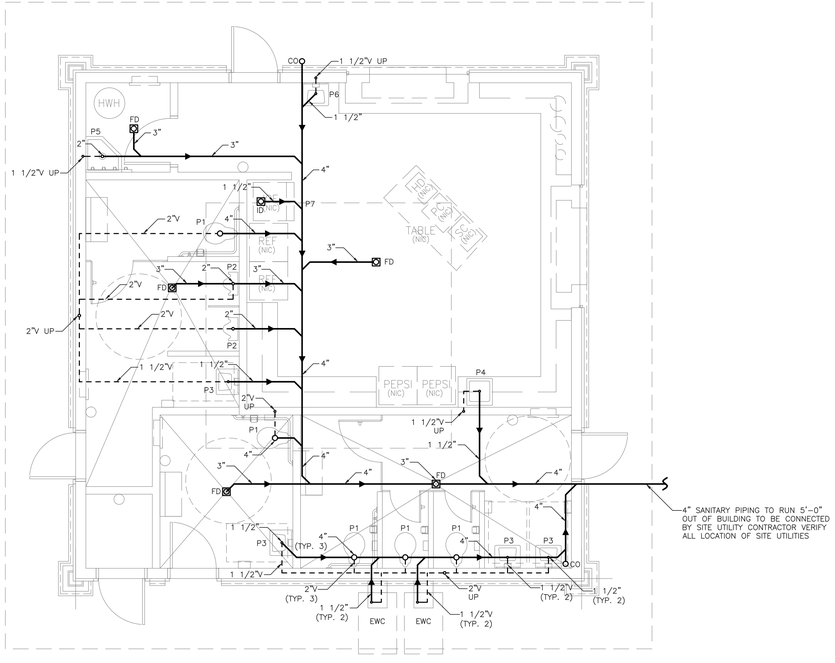


PLAN A P100 DOMESTIC WATER PLAN
SCALE: 1/4" = 1' - 0"

PLUMBING PLAN NOTES

1. ALL PIPING SHALL BE INSULATED PER THE SPECIFICATIONS. PIPING IS SHOWN SCHEMATICALLY ONLY, ACTUAL FIELD LOCATIONS MAY VARY.
2. IN GENERAL, THE VENTS TO ROOF THAT ARE SHOWN CAN BE TIED TOGETHER ABOVE THE CEILINGS OR IN ATTIC SPACE BEFORE GOING THROUGH THE ROOF.
3. RUN ALL VENTS UP THROUGH ROOF ON BACK SIDE OF BUILDING.
4. FIXTURES HAVING CONCEALED CONNECTIONS SHALL BE PROVIDED WITH AN ACCESS PANEL ARRANGED AS TO MAKE THE CONNECTIONS ACCESSIBLE FOR INSPECTION AND REPAIR.
5. PROVIDE HANDI-SHIELD SAFETY COVERS ON ALL EXPOSED PIPING IN RESTROOMS.
6. PLUMBING FIXTURES TO BE PLACED PER DIMENSIONS GIVEN ON ARCHITECTURAL SHEETS.
7. INSTALL ALL FIXTURES PER MANUFACTURER'S INSTRUCTIONS.



PLAN A P100 SANITARY & VENT PLAN
SCALE: 1/4" = 1' - 0"

PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	CONNECTIONS				MANUFACTURES - MAKE - MODEL - COMMENTS
		WASTE	VENT	COLD W	HOT W	
P1	WATER CLOSET FLUSH VALVE (ADA APPROVED)	4"	2"	1"	---	TOILET: TOTO USA MODEL - CT705UN#01 FLOOR MOUNT TOILET (WHITE) ELONGATED BOWL, VIT. CHINA, OPEN FRONT SEAT MODEL - SC534#01 (WHITE); FLUSH VALVE MODEL - TET1LA32#CP WITH 1.28 GALLON. SEE NOTE 1.
P2	URINAL FLUSH VALVE (ADA APPROVED)	2"	2"	3/4"	---	URINAL: VIT CHINA, WALL MOUNT, TOP SPUD, TOTO USA MODEL - UT447E#01 0.5 GALLON (WHITE); FLUSH VALVE MODEL: TEU1LA12#CP WITH 0.5 GALLON. SEE NOTE 1.
P3	LAVATORY WALL MOUNT (ADA APPROVED)	1 1/2"	1 1/2"	1/2"	1/2"	COMMERCIAL WALL-HUNG LAVATORY TOTO MODEL NUMBER - LT307(A) SHALL BE MADE OF VITREOUS CHINA W/ BACK SPLASH, PUNCHING FOR CONCEALED ARM CARRIER, WALL HANGER, SOAP DISPENSER HOLE.
P4	DROP IN SINK (ADA APPROVED)	1 1/2"	1 1/2"	1/2"	1/2"	SINK: SINGLE BOWL, THREE HOLE, ELKAY LRAD2222 FAUCET: DELTA MODEL 26C3924
P5	MOP SINK	2"	2"	1/2"	1/2"	SINK: CORNER STYLE, FLOOR MOUNT, FLORESTONE 95 NEO ANGLE TERRAZZO FAUCET: WALLMOUNT SERVICE SINK, FAUCET DELTA MODEL 2819
P6	WALL MOUNT HAND SINK	1 1/2"	1 1/2"	1/2"	1/2"	SINK: VIT CHINA, AMERICAN STANDARD, "LUCERNE" 0356.028 WITH CONCEALED CARRIER FAUCET: DELTA, 501 WFHDF (WITH GRID DRAIN) ADA APPROVED FAUCET AND LAVATORY WHEN INSTALLED AT PROPER HEIGHT
P7	ICE MAKER CONNECTION	1-1/2" INDIRECT	---	3/8"	---	OATEY 38608 ICEMAKER OUTLET BOX WITH HAMMER ARRESTOR
EWC	ELECTRIC WATER COOLER	1 1/2"	1 1/2"	1/2"	---	WALL MOUNT, VANDAL RESISTANT, BARRIER FREE ACCESS, FROST RESISTANT ELKAY VRCFR8S
WH	WATER HEATER	---	---	3/4"	3/4"	A. O. SMITH PXHS 40 CONSERVATIONIST 4500W
HB	HOSE BIBB	---	---	3/4"	---	WOODFORD 65C FROST PROOF, WITH LOOSE KEY OPERATOR AND VACUUM BREAKER
FD	FLOOR DRAIN	3"	---	---	---	ZURN FD-2290. PROVIDE TRAP PRIMER ON EACH, FEED FROM NEAREST SINK

NOTES:

1. VERIFY FLUSH VALVE TYPE WITH OWNER.

PLUMBING LEGEND

- WASTE
- VENT PIPING
- COLD WATER (CW)
- HOT WATER (HW)
- PIPE UP
- PIPE DOWN
- TEE UP
- TEE DOWN
- P-TRAP
- CAP
- DIRECTION OF FLOW
- CONTINUATION
- UNION
- BALL/BUTTERFLY VALVE
- CHECK VALVE
- WATER HAMMER ARRESTOR
- POINT OF CONNECTION TO EXISTING LINE
- CLEAN OUT (CO)
- FLOOR DRAIN WITH TRAP PRIMER
- WH — WATER HEATER, NEW

MINIMUM PIPING INSULATION SCHEDULE

PIPING SYSTEM	°F	PIPE SIZE	INSULATION THICKNESS/MATERIAL	INSULATION COVERING/JACKET	NOTES
DOMESTIC COLD WATER	55 - 65	UP TO 1"	1/2" FIBERGLASS	ALL SERVICE JACKET	SEAL ALL JOINTS FULLY
		1-1/4" - UP	1" FIBERGLASS	ALL SERVICE JACKET	SEAL ALL JOINTS FULLY
DOMESTIC HOT WATER	105 - 140	UP TO 1"	3/4" FIBERGLASS	ALL SERVICE JACKET	SEAL ALL JOINTS FULLY
CONDENSATE DRAINS-COPPER/STL	AMB.	ALL	1/2" FIBERGLASS	ALL SERVICE JACKET	SEAL ALL JOINTS FULLY
CONDENSATE DRAINS - PVC/PLASTIC	AMB.	ALL	NONE	NONE	-

NOTES: PROVIDE INSULATION PER INTERNATIONAL ENERGY CODE WHERE MORE STRINGENT

PLUMBING PIPE SCHEDULE

PIPING SYSTEM	PIPING MATERIALS SIZES	SCH	ASTM	MATERIAL	PIPE FITTINGS MATERIAL	TYPE	CONDITIONS TEMP °F	PRESS.	FIELD TEST TIME	PRESS	REMARKS
DOMESTIC HOT WATER SUPPLY	ALL	-	B75,88,251	PEX **	PEX **	SJ	40-140	120 PSI	2 HR	100 PSI	TEST PER LOCAL REQUIREMENTS
DOMESTIC COLD WATER-BELOW GRADE	ALL	-	B75,88,251	PEX **	PEX **	SJ	40-140	120 PSI	2 HR	100 PSI	TEST PER LOCAL REQUIREMENTS
DOMESTIC COLD WATER-ABOVE GRADE	ALL	-	B75,88,251	PEX **	PEX **	SJ	40-140	120 PSI	2 HR	100 PSI	TEST PER LOCAL REQUIREMENTS
WASTE/VENT BELOW GRADE	ALL	40	D2665	PVC-1120	PVC	SW	40-100	-	1/2 HR	10 FEET	-
WASTE/VENT ABOVE GRADE	ALL	40	D2665	PVC-1120	PVC	SW	40-100	-	1/2 HR	10 FEET	-
HVAC CONDENSATE DRAIN LINES	ALL	40	D2665	PVC	PVC	SW	35	-	-	-	-

NOTES: SOME OF THE ABOVE PIPING SPECIFICATIONS AND SYSTEMS DO NOT APPLY SPECIFICALLY TO THIS PROJECT.

* REQUIRES CERTIFIED WELDER.

** PEX TUBING SHALL MEET ALL THE REQUIREMENTS OF THE IPC (INTERNATIONAL PLUMBING CODE) LATEST ADOPTED ADDITION AND ALL LOCAL PLUMBING CODE REQUIREMENTS. IPC SECTION 605 MATERIALS, JOINTS AND CONNECTIONS; TABLE 605.5 WATER DISTRIBUTION PIPE AND TABLE 605.6 MANUFACTURED PIPE NIPPLES. ALL PIPING SHALL BE SUPPORTED PER IPC SECTION 308 PIPING SUPPORT. PIPE SHALL BE SUPPORTED PER IPC SECTION 308 TABLE 308.5. CONTRACTOR SHALL SUBMIT MANUFACTURES INFORMATION AND RECOMMENDATIONS ON PEX INSTALLATION DURING THE SUBMITTAL PROCESS FOR APPROVAL OF HANGER LOCATIONS.

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SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER NO: 17129 BRIAN E. BEST 5/27/20

SOUTH CAROLINA BEST ENGINEERING NO: C02536 CERTIFICATE OF AUTHORITY

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1364 WAVERLY RD.
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CHECKED BY: BES

CONSTRUCTION DOCUMENTS

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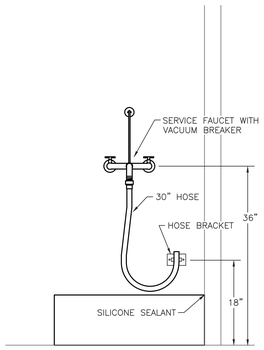
PLUMBING PLANS, LEGEND & SCHEDULES

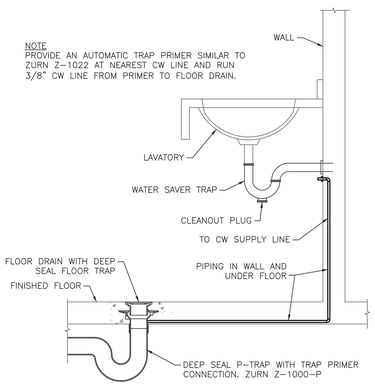
P100

GENERAL PLUMBING NOTES

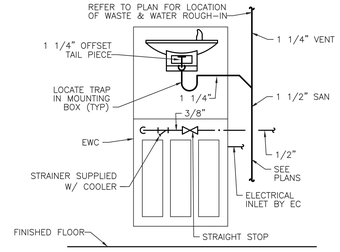
1. ALL WORK SHALL BE GOVERNED BY THE LATEST EDITIONS OF THE IBC, PLUMBING, FIRE PROTECTION, BUILDING CODES, NATIONAL ELECTRICAL CODES AND NATIONAL FIRE PROTECTION ASSOCIATION CODES AS ADOPTED BY THE AUTHORITIES HAVING JURISDICTION. ALL MATERIALS, FIXTURES AND EQUIPMENT SHALL BE NEW, HIGH QUALITY AND FREE FROM ANY DEFECTS OR IMPERFECTIONS.
2. ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR IN A FIRST CLASS WORKMANSHIP MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE.
3. CONTRACTOR SHALL VISIT THE JOB SITE AND BECOME THOROUGHLY FAMILIAR WITH ALL EXISTING CONDITIONS.
4. CONTRACTOR SHALL SECURE AND PAY ALL PERMITS, FEES INSPECTIONS, AND TESTS. SUBSTITUTIONS REQUESTED BY THE CONTRACTOR SHALL BE PAID FOR BY THE CONTRACTOR.
5. DRAWINGS ARE DIAGRAMMATIC. DO NOT SCALE. FOR THE EXACT LOCATIONS OF FIXTURES, PIPING, EQUIPMENT, ETC. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, OWNER, PLUMBING & MANUFACTURES INSTALLATION MATERIALS, DRAWINGS, LATEST UPDATES AND PROCEDURES.
6. STORM, WASTE AND VENT PIPING SHALL BE CONNECTED TO MAINS ON SITE PLAN. VERIFY ALL LOCATIONS AND INVERTS PRIOR TO BEGINNING ANY STORM OR WASTE PIPE INSTALLATION. SCHEDULE 40 POLYVINYL CHLORIDE (PVC) DWV (DRAIN WASTE AND VENT) PIPE AND FITTINGS SHALL CONFORM TO ASTM D2665, WITH SOLVENT WELDED JOINTS. SOLVENT CEMENT SHALL CONFORM TO ASTM D2564. "PUSH-ON" TYPE FITTING WITH GASKETS SHALL NOT BE ACCEPTABLE.
7. WATER PIPING SHALL BE CONNECTION TO MAINS ON SITE PLAN. VERIFY LOCATION PRIOR TO BEGINNING WATER PIPE INSTALLATION.
8. A DIELECTRIC COUPLING SHALL BE PROVIDED WHERE PIPING OF DIFFERENT MATERIALS ARE CONNECTED TOGETHER. DIELECTRIC UNIONS SHALL BE PROVIDED ON CONNECTIONS AT WATER HEATERS AND EXPANSION TANKS.
9. ISOLATE COPPER PIPE FROM HANGER OR SUPPORTS WITH ISOLATORS PAD (HAIR FELT LINING) SUPER STRUT MODEL C715/16. FILL VOIDS BETWEEN PIPE AND WALL/FLOOR SLEEVES WITH FIRE RATED FOAM, CHASE TECHNOLOGY CORPORATION – CTC PR-855.
10. PROVIDE BALL VALVES FOR SHUT OFF DUTY ON WATER PIPING WHERE IT CONNECTS TO APPLIANCES. GATE VALVES SHALL NOT BE ALLOWED.
11. ALL WATER PIPING SHALL BE STERILIZED ACCORDING TO THE REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION.
12. ALL PIPING SHALL BE TESTED AS REQUIRED BY THE PLUMBING CODE AND THE AUTHORITIES HAVING JURISDICTION. PROVIDE WRITTEN REPORT OF RESULTS OF TEST TO THE ENGINEER.
13. ALL INDIRECT AND CONDENSATE DRAIN LINES SUBJECT TO FREEZING SHALL BE INSULATED WITH JOHNS-MANVILLE "AEROTUBE" FOAM PLASTIC PIPE INSULATION, 1/2" THICK.
14. IT IS THE INTENT OF THE CONTRACT DOCUMENTS TO PROVIDE AN INSTALLATION THAT IS COMPLETE IN EVERY RESPECT. IN THE EVENT THAT ADDITIONAL DETAILS OF SPECIAL CONSTRUCTION IS REQUIRED FOR WORK INDICATED OR SPECIFIED IN THIS SECTION OR WORK SPECIFIED IN OTHER SECTIONS, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL EQUIPMENT AND MATERIALS WHICH IS USUALLY FURNISHED WITH SUCH SYSTEMS IN ORDER TO COMPLETE THE INSTALLATION, WHETHER SPECIFICALLY MENTIONED OR NOT.
15. CONTRACTOR SHALL GUARANTEE, FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF SYSTEMS BY OWNER, EACH AND EVERY PIECE OF APPARATUS WHICH HAS BEEN INSTALLED UNDER HIS CONTRACT AND REMEDY DEFECTS WHICH APPEAR AS A RESULT OF NORMAL USAGE TO THE COMPLETE SATISFACTION OF THE OWNER.
16. MATERIALS OTHER THAN THOSE SPECIFIED OR PRE-APPROVED AS LISTED ON THE DRAWINGS AND SPECIFICATIONS, SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW NOT LESS THAN TEN WORKING DAYS PRIOR TO THE PROJECT BID DATE. SUBMITTALS MUST INCLUDE COMPLETE CATALOG NUMBERS AND SPECIFICATION SHEETS AND BE IN EITHER PDF FORMAT (PREFERRED) OR HARD COPY. FACSIMILES ARE NOT ACCEPTABLE. PARTIAL SUBMITTALS SHALL NOT BE ACCEPTED AND WILL BE REJECTED AUTOMATICALLY FOR INCOMPLETENESS. ONLY FULL AND COMPLETE SUBMITTALS WILL BE ACCEPTED FOR REVIEW.
17. PEX PIPING IS ALLOWABLE, REFER SHEET P300 FOR SPECIFICATIONS.



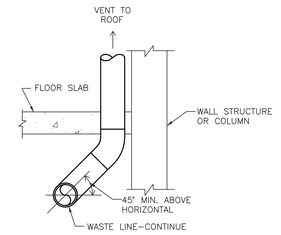
DET 1 P200 — JANITOR SINK DETAIL
SCALE: NOT TO SCALE



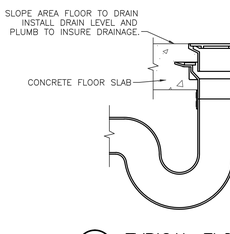
DET 2 P200 — TRAP PRIMER DETAIL
SCALE: NOT TO SCALE



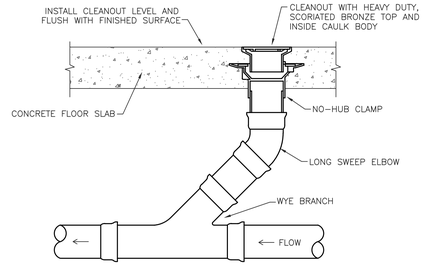
DET 3 P200 — ELECTRIC WATER COOLER
SCALE: NOT TO SCALE



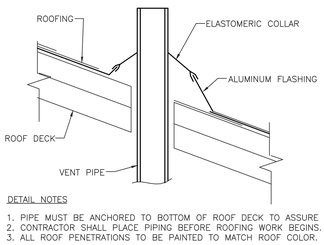
DET 4 P200 — PLUMBING VENT CONNECTION
SCALE: NOT TO SCALE



DET 5 P200 — TYPICAL FLOOR DRAIN
SCALE: NOT TO SCALE

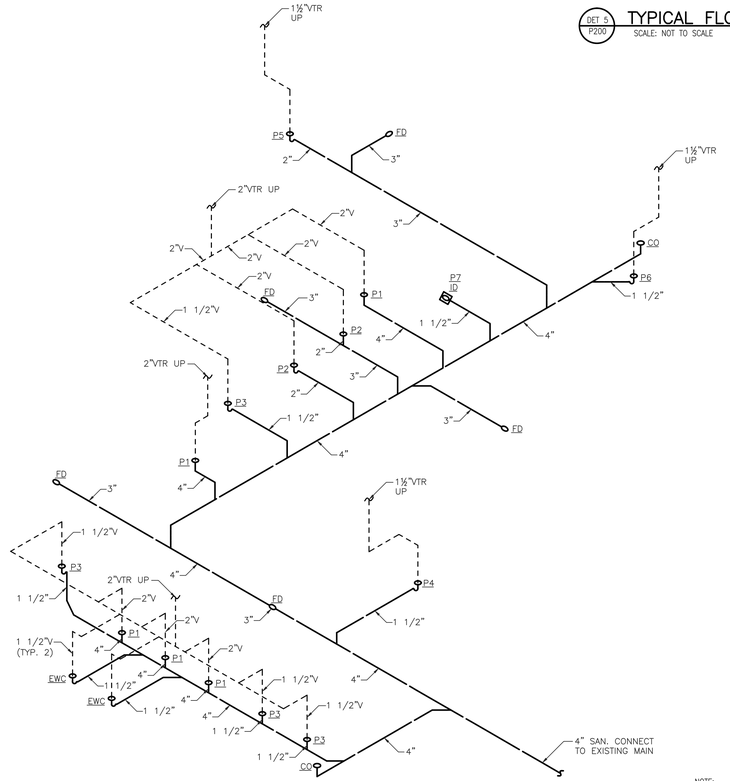


DET 6 P200 — TYPICAL FLOOR CLEANOUT
SCALE: NOT TO SCALE



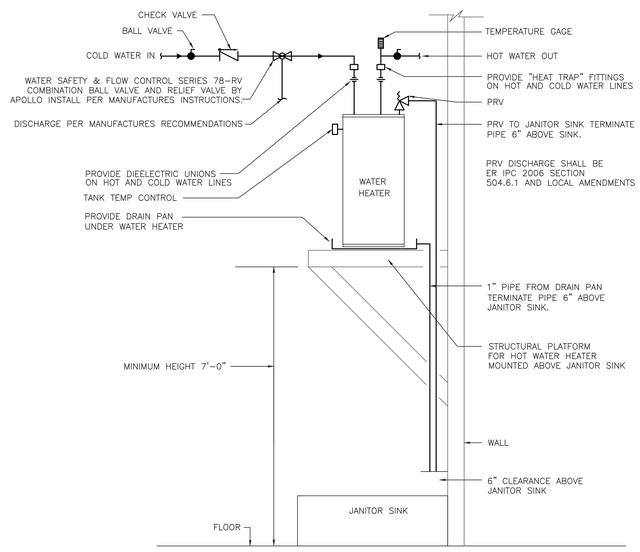
DETAIL NOTES
1. PIPE MUST BE ANCHORED TO BOTTOM OF ROOF DECK TO ASSURE STABILITY.
2. CONTRACTOR SHALL PLACE PIPING BEFORE ROOFING WORK BEGINS.
3. ALL ROOF PENETRATIONS TO BE PAINTED TO MATCH ROOF COLOR.

DET 7 P200 — PLUMBING VENT PITCHED ROOF PENETRATION
SCALE: NOT TO SCALE

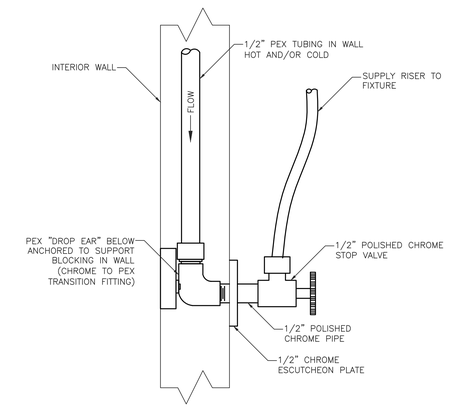


NOTE:
COMBINE VENTS WHERE POSSIBLE TO MINIMIZE ROOF CUTS

DET 10 P200 — SANITARY & VENT ISOMETRIC
SCALE: NOT TO SCALE



DET 8 P200 — ELECTRIC HOT WATER HEATER ON SHELF
SCALE: NOT TO SCALE



NOTE:
ROUGH-IN SIMILAR FOR SHOWERS AND BATHTUBS

DET 9 P200 — TYP. PEX TO CHROME PIPING TRANSITION DETAIL
SCALE: NOT TO SCALE

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SOUTH CAROLINA BEST ENGINEERING NO: C02536 CERTIFICATE OF AUTHORITY

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PLUMBING NOTES AND DETAILS

P200

PEX PIPING – SPECIFICATIONS

PART 1 GENERAL

1.1 SECTION INCLUDES
- A. PEX–A PIPE AND FITTINGS FOR DOMESTIC WATER PIPING.

1.2 REFERENCES
- A. ASTM INTERNATIONAL (ASTM):
  1. ASTM D 2765 – TEST METHODS FOR DETERMINATION OF GEL CONTENT AND SWELL RATIO OF CROSSLINKED ETHYLENE PLASTICS.
  2. ASTM D 6394 – SPECIFICATION FOR SULFONE PLASTICS (SP).
  3. ASTM E 84 – STANDARD TEST METHOD FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS.
  4. ASTM E 119 – STANDARD TEST METHODS FOR FIRE TESTS OF BUILDING CONSTRUCTION AND MATERIALS.
  5. ASTM E 814 – STANDARD TEST METHOD FOR FIRE TESTS OF THROUGH–PENETRATION FIRE STOPS.
  6. ASTM F 876 – STANDARD SPECIFICATION FOR CROSSLINKED POLYETHYLENE (PEX) TUBING.
  7. ASTM F 877 – STANDARD SPECIFICATION FOR CROSSLINKED POLYETHYLENE (PEX) PLASTIC HOT– AND COLD–WATER DISTRIBUTION SYSTEMS.
  8. ASTM F 1960 – STANDARD SPECIFICATION FOR COLD EXPANSION FITTINGS WITH PEX REINFORCING RINGS FOR USE WITH CROSSLINKED POLYETHYLENE (PEX) TUBING.
- B. AMERICAN WATER WORKS ASSOCIATION:
  1. AWWA C904 STANDARD FOR CROSSLINKED POLYETHYLENE (PEX) PRESSURE PIPE, 1/2 IN. THROUGH 3 IN., FOR WATER SERVICE.
- C. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)/NATIONAL SANITATION FOUNDATION (NSF)
  1. ANSI/NSF STANDARD 14 PLASTICS PIPING SYSTEM COMPONENTS AND RELATED MATERIALS.
  2. ANSI/NSF STANDARD 61 DRINKING WATER SYSTEM COMPONENTS – HEALTH EFFECTS.
  3. ANSI/NSF STANDARD 359 VALVES FOR CROSSLINKED POLYETHYLENE (PEX) WATER DISTRIBUTION TUBING SYSTEMS.
- D. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)/UNDERWRITERS LABORATORIES, INC. (UL)
  1. ANSI/UL 263 STANDARD FOR SAFETY FOR FIRE TESTS OF BUILDING CONSTRUCTION AND MATERIALS.
  2. ANSI/UL 2846 STANDARD FOR FIRE TEST OF PLASTIC WATER DISTRIBUTION PLUMBING PIPE FOR VISIBLE FLAME AND SMOKE CHARACTERISTICS.
- E. AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME):
  1. ASME B 16.5 PIPE FLANGES AND FLANGED FITTINGS: NPS 1/2 THROUGH NPS 24 METRIC/INCH STANDARD.
  2. ASME B16.51 COPPER AND COPPER ALLOY PRESS–CONNECT PRESSURE FITTINGS.
  3. CSA B242–05 GROOVE–AND SHOULDER–TYPE MECHANICAL PIPE COUPLINGS.
- F. INTERNATIONAL CODE COUNCIL (ICC)
  1. INTERNATIONAL PLUMBING CODE (IPC)
- G. INTERNATIONAL ASSOCIATION OF PLUMBING OFFICIALS (IAPMO)
  1. UNIFORM PLUMBING CODE (UPC)
- H. NATIONAL ASSOCIATION OF PLUMBING, HEATING AND COOLING CONTRACTORS (NAPHCC)
  1. NATIONAL STANDARD PLUMBING CODE (NSPC)
- I. PLASTICS PIPE INSTITUTE (PPI)
  1. PPI TECHNICAL REPORT TR–4/06
- J. UNDERWRITERS LABORATORIES (UL):
  1. UL 2846 STANDARD FOR FIRE TESTS OF PLASTIC WATER DISTRIBUTION PLUMBING PIPE FOR VISIBLE FLAME AND SMOKE CHARACTERISTICS.

1.3 SUBMITTALS
- A. PRODUCT DATA: PROVIDE MANUFACTURER'S PRODUCT SUBMITTAL DATA.

1.4 DELIVERY, STORAGE, AND HANDLING
- A. ORDERING: COMPLY WITH MANUFACTURER'S ORDERING INSTRUCTIONS AND LEAD–TIME REQUIREMENTS TO AVOID CONSTRUCTION DELAYS.
- B. DELIVERY: DELIVER MATERIALS IN MANUFACTURER'S ORIGINAL, UNOPENED, UNDAMAGED CONTAINERS WITH IDENTIFICATION LABELS INTACT.
- C. STORAGE AND PROTECTION: STORE MATERIALS PROTECTED FROM EXPOSURE TO HARMFUL ENVIRONMENTAL CONDITIONS AND AT TEMPERATURE AND HUMIDITY CONDITIONS RECOMMENDED BY THE MANUFACTURER.
  1. STORE PEX TUBING IN CARTONS OR UNDER COVER TO AVOID DIRT OR FOREIGN MATERIAL FROM ENTERING THE TUBING.
  2. DO NOT EXPOSE PEX TUBING TO DIRECT SUNLIGHT FOR MORE THAN 30 DAYS. IF CONSTRUCTION DELAYS ARE ENCOUNTERED, COVER THE TUBING TO PREVENT EXPOSURE TO DIRECT SUNLIGHT

1.5 WARRANTY
- A. PROJECT WARRANTY: REFER TO CONDITIONS OF THE CONTRACT FOR PROJECT WARRANTY PROVISIONS.
- B. MANUFACTURER'S WARRANTY: PEX–A MANUFACTURER SYSTEM WARRANTY SHALL COVER PIPING AND FITTINGS FOR A DURATION OF 25 YEARS FROM THE DATE OF INSTALLATION. PIPING SYSTEM WARRANTY SHALL APPLY TO POTABLE WATER DISTRIBUTION AND WATER SERVICE SYSTEMS CONSTRUCTED OF PIPE AND FITTING PRODUCTS SOURCED FROM THE SAME MANUFACTURER.

PART 2 PRODUCTS

2.1 MANUFACTURERS
- A. ACCEPTABLE MANUFACTURER: UPONOR OR APPROVED EQUAL

2.2 PEX PIPE AND FITTINGS
- A. PEX–A (ENGEL–METHOD CROSSLINKED POLYETHYLENE) PIPING: ASTM F 876 AND F877 (CAN/CSA–B137.5) BY UPONOR.
- B. PEX–A FITTINGS: ELBOWS, ADAPTERS, COUPLINGS, PLUGS, TEES AND MULTI–PORT TEES (1/2 INCH THROUGH 3 INCH NOMINAL PIPE SIZE): ASTM F1960 COLD–EXPANSION FITTING MANUFACTURED FROM THE FOLLOWING MATERIAL TYPES:
  1. UNS NO. C69300 LEAD–FREE (LF) BRASS.
  2. UNS NO. C27453 LEAD–FREE (LF) BRASS.
  3. 20% GLASS–FILLED POLYSULFONE AS SPECIFIED IN ASTM D 6394.
  4. UNREINFORCED POLYSULFONE (GROUP 01, CLASS 1, GRADE 2) AS SPECIFIED IN ASTM D 6394.
  5. POLYPHENYLSULFONE (GROUP 03, CLASS 1, GRADE 2) AS SPECIFIED IN ASTM D 6394.
  6. BLEND OF POLYPHENYLSULFONE (55–80%) AND UNREINFORCED POLYSULFONE (REM.) AS SPECIFIED IN ASTM D 6394.
  7. REINFORCING COLD–EXPANSION RINGS SHALL BE MANUFACTURED FROM THE SAME SOURCE AS PEX–A PIPING MANUFACTURER AND MARKED "F1960".
- C. PRE–SLEEVED PIPING (1/2 INCH (16MM) THROUGH 3/4 INCH (20MM) NOMINAL PIPE SIZE): PEX–A PIPING, WITH A HIGH–DENSITY POLYETHYLENE (HDPE) CORRUGATED SLEEVE.
- D. PRE–INSULATED PIPING (1/2 INCH (16MM) THROUGH 2 INCH (50MM) NOMINAL PIPE SIZE): PEX–A PIPING, WITH A CLOSED–CELL POLYETHYLENE FOAM INSULATION.
- E. MULTI–PORT TEES: MULTIPLE–OUTLET FITTING COMPLYING WITH ASTM F 877 (CAN/CSA B137.5); WITH ASTM F 1960 INLETS AND OUTLETS.
  1. ENGINEERED POLYMER BRANCH MULTI–PORT TEE.
  2. ENGINEERED POLYMER FLOW–THROUGH MULTI–PORT TEE.
  3. ENGINEERED POLYMER COMMERCIAL BRANCH MULTI–PORT TEE.
  4. ENGINEERED POLYMER COMMERCIAL BRANCH MULTI–PORT ELBOW.
  5. ENGINEERED POLYMER COMMERCIAL FLOW–THROUGH MULTI–PORT TEE.
- F. MANIFOLDS: MULTIPLE–OUTLET ASSEMBLY COMPLYING WITH ASTM F 877 (CAN/CSA B137.5); WITH ASTM F 1960 OUTLETS.
  1. ENGINEERED POLYMER VALVED MANIFOLD.
  2. ENGINEERED POLYMER VALVELESS MANIFOLD.
  3. LEAD – FREE COPPER BRANCH MANIFOLD.
  4. LEAD–FREE COPPER VALVED MANIFOLD.

2.3 TRANSITION FITTINGS
- A. PEX–TO–METAL TRANSITION FITTINGS:
  1. MANUFACTURERS: PROVIDE FITTINGS FROM THE SAME MANUFACTURER OF THE PIPING.
  2. PEX–A TO THREAD TRANSITION: ONE–PIECE BRASS FITTING WITH MALE OR FEMALE THREADED ADAPTER AND ASTM F 1960 COLD–EXPANSION END, WITH PEX–A REINFORCING COLD–EXPANSION RING.
  3. PEX–A TO COPPER SWEAT TRANSITION: ONE–PIECE BRASS FITTING WITH SWEAT ADAPTER AND ASTM F 1960 COLD–EXPANSION END, WITH PEX–A REINFORCING COLD–EXPANSION RING.
  4. PEX–A TO COPPER PRESS TRANSITION: ONE–PIECE LEAD FREE (LF) BRASS FITTING WITH ONE ASME B16.51 COPPER PRESS END AND ONE ASTM F1960 COLD–EXPANSION END, WITH PEX–A REINFORCING COLD–EXPANSION RING.
  5. PEX–A TO FLANGE TRANSITION: TWO–PIECE FITTING WITH ONE STEEL FLANGE CONFORMING TO ASME B 16.5AND ONE LEAD FREE (LF) BRASS ADAPTER CONFORMING TO ASTM F 1960.
  6. PEX–A TO GROOVE TRANSITION: ONE–PIECE LEAD FREE (LF) BRASS FITTING WITH ONE CSA B242–05 GROOVE END IN EITHER IRON PIPE SIZE (IPS) OR COPPER TUBE SIZE (CTS) AND ONE ASTM F1960 COLD–EXPANSION END, WITH PEX–A REINFORCING COLD–EXPANSION RING.
  7. PEX–A TO WATER METER TRANSITION: TWO–PIECE FITTING WITH ONE NPSM UNION THREAD AND ONE ASTM F 1960 COLD–EXPANSION END, WITH PEX–A REINFORCING COLD–EXPANSION RING.
- B. PEX–TO–THERMOPLASTIC TRANSITION FITTINGS:
  1. PEX–A TO CPVC TRANSITION: THERMOPLASTIC FITTING WITH ONE SPIGOT OR SOCKET END AND ONE ASTM F 1960 COLD–EXPANSION END, WITH PEX–A REINFORCING COLD–EXPANSION RING.

2.4 VALVES
- A. PEX–TO–PEX, LEAD FREE (LF) BRASS BALL VALVES (1/2 INCH (16 MM) THROUGH 2 INCH (50 MM) NOMINAL PIPE SIZE)
  1. MANUFACTURERS: PROVIDE BALL VALVE(S) FROM THE SAME MANUFACTURER AS THE PIPING SYSTEM.
  2. FULL–PORT BALL VALVE: TWO–PIECE, ASTM F1960 COLD–EXPANSION ENDS, WITH PEX–A REINFORCING COLD–EXPANSION RING.
  3. LF BRASS VALVE WITH A POSITIVE STOP SHOULDER MANUFACTURED FROM C69300 BRASS.
  4. IN COMPLIANCE WITH: 250 CWP, ANSI/NSF 359, ANSI/NSF 14/61, CNSF–US–PW_G LEAD FREE 0.25% LEAD MAX., ASTM F1960, ASTM F 877 (CAN/CSA B137.5).

PART 3 EXECUTION

3.1 EXAMINATION
- A. SITE VERIFICATION OF CONDITIONS: VERIFY THAT SITE CONDITIONS ARE ACCEPTABLE FOR INSTALLATION OF THE DOMESTIC WATER PIPING. DO NOT PROCEED WITH INSTALLATION UNTIL UNACCEPTABLE CONDITIONS ARE CORRECTED.

3.2 INSTALLATION
- A. INSTALL PLUMBING SYSTEM ACCORDING TO APPROVED SHOP DRAWINGS AND COORDINATION DRAWINGS.
- B. COMPLY WITH MANUFACTURER'S PRODUCT DATA, INCLUDING PRODUCT TECHNICAL BULLETINS, INSTALLATION INSTRUCTIONS AND DESIGN DRAWINGS, INCLUDING THE FOLLOWING.
- C. PIPING INSTALLATION:
  1. INSTALL PIPING SYSTEM IN COMPLIANCE WITH THE UPONOR PIPING POCKET GUIDE (2017).
  2. PEX SHALL NOT BE INSTALLED IN AREAS WITHIN FIVE FEET OF UV LIGHT.
- D. HANGERS AND SUPPORTS:
  1. HORIZONTAL PEX–A PIPING HANGERS: INSTALL CTS HANGERS SUITABLE FOR PEX–A PIPING IN COMPLIANCE WITH THE UPONOR PIPING POCKET GUIDE (2017) AND LOCAL CODES, WITH THE FOLLOWING MAXIMUM SPACING:
     - A. NATIONAL PLUMBING CODE OF CANADA (NPCC): 3 INCH (75MM) AND BELOW: MAXIMUM SPAN, 32 INCHES (0.81 M).
     - B. INTERNATIONAL PLUMBING CODE (IPC) & UNIFORM PLUMBING CODE (UPC): 1 INCH (25 MM) AND BELOW: MAXIMUM SPAN, 32 INCHES (0.81 M).
     - C. IPC & UPC: 1–1/4 INCH (31 MM) AND ABOVE: MAXIMUM SPAN, 48 INCHES (1.2 M).
     - D. NOTE: THE ABOVE MAXIMUM HANGER SPACING REQUIREMENTS MAY BE EXTENDED WITH THE USE OF A CONTINUOUS SUPPORT CHANNEL SUCH AS UPONOR PEX–A PIPE SUPPORT.
  2. HORIZONTAL PEX–A PIPING WITH PEX–A PIPE CHANNEL: INSTALL HANGERS FOR PEX–A PIPING WITH HORIZONTAL SUPPORT CHANNEL IN ACCORDANCE WITH LOCAL JURISDICTION AND MANUFACTURER'S RECOMMENDATIONS, WITH THE FOLLOWING MAXIMUM SPACING:
     - A. 3/4 INCH (20 MM) AND BELOW: MAXIMUM SPAN, 6 FEET (1.8 M).
     - B. 1 INCH (25 MM) AND ABOVE: MAXIMUM SPAN, 8 FEET (2.4 M).
  3. VERTICAL PEX–A PIPING: SUPPORT PEX–A PIPING WITH MAXIMUM SPACING OF 5 FEET (1.5 M).
  4. PEX–A RISER SUPPORTS: INSTALL CTS RISER CLAMPS AT THE BASE OF EACH FLOOR AND AT THE TOP OF EVERY OTHER FLOOR FOR DOMESTIC HOT–WATER SYSTEMS. INSTALL MID–STORY GUIDES BETWEEN EACH FLOOR. INSTALL CTS RISER CLAMPS AT THE BASE OF EACH FLOOR AND AT THE TOP OF EVERY FOURTH FLOOR FOR DOMESTIC COLD–WATER SYSTEMS. INSTALL MID–STORY GUIDES.
- E. PIPING SCHEDULE:
  1. UNDERGROUND / UNDER–BUILDING SLAB, DOMESTIC WATER PIPING (3 INCH AND BELOW) SHALL BE THE FOLLOWING:
     - A. 1/2 INCH (16 MM) THROUGH 3 INCH (75 MM) – PEX–A PIPING WITH ENGINEERED POLYMER (EP) OR LEAD–FREE BRASS F1960 COLD–EXPANSION FITTINGS. INSULATE IN COMPLIANCE WITH SECTION – 9 "PLUMBING PIPING INSULATION." USE THE FEWEST POSSIBLE JOINTS AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
     - B. 1/2 INCH (16 MM) THROUGH 2 INCH (50 MM) – PRE–INSULATED PEX–A PIPING WITH PEX–FOAM INSULATION WITH ENGINEERED POLYMER (EP) OR LEAD–FREE BRASS ASTM F 1960 COLD–EXPANSION FITTINGS. USE THE FEWEST POSSIBLE JOINTS AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
     - C. 3/4 INCH (20 MM) THROUGH 2 INCH (50 MM) – PRE–INSULATED PEX–A PIPING WITH MULTI–LAYER, CLOSED–CLOSED CELL PEX–FOAM INSULATION AND A CORRUGATED HDPE JACKET WITH ENGINEERED POLYMER (EP) OR LEAD–FREE BRASS ASTM F 1960 COLD–EXPANSION FITTINGS. USE THE FEWEST POSSIBLE JOINTS AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
  2. IN–SLAB, DOMESTIC WATER PIPING (3 INCH (75MM) AND BELOW) SHALL BE THE FOLLOWING: BARE PEX–A PIPING, PRE–SLEEVED PEX–A PIPING, OR PRE–INSULATED PEX–A PIPING WITH ENGINEERED POLYMER (EP) OR LEAD–FREE BRASS F1960 COLD–EXPANSION FITTINGS. USE THE FEWEST POSSIBLE JOINTS AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
  3. ABOVEGROUND DOMESTIC WATER PIPING (3 INCH (75MM)AND BELOW) SHALL BE THE FOLLOWING: PEX–A PIPING, WITH ENGINEERED POLYMER (EP) OR LEAD–FREE BRASS F1960 COLD–EXPANSION FITTINGS.
- F. PIPE JOINT CONSTRUCTION: PEX–A CONNECTIONS: INSTALL PER MANUFACTURER'S RECOMMENDATIONS. USE MANUFACTURER–RECOMMENDED COLD–EXPANSION TOOL FOR ASTM F 1960 CONNECTIONS.
- G. FIELD QUALITY CONTROL: DO NOT EXPOSE PEX PIPING TO DIRECT SUNLIGHT FOR MORE THAN 30 DAYS. IF CONSTRUCTION DELAYS ARE ENCOUNTERED, PROVIDE COVER TO PORTIONS OF PIPING EXPOSED TO DIRECT SUNLIGHT.

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SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER NO: 17129 BRIAN E. BEST

SOUTH CAROLINA BEST ENGINEERING NO: C02536 CERTIFICATE OF AUTHORIZATION

WAVERLY PARK
AT
WACCAMAW ELEMENTARY SCHOOL
1364 WAVERLY RD.
PAWLEY'S ISLAND, SC 29585

PROJECT NUMBER: 19-004-04
ISSUE DATE: 05/??/2020
DRAWN BY: BES
CHECKED BY: BES

CONSTRUCTION DOCUMENTS

Revision Schedule		
#	Description	Date

PEX PIPING SPECIFICATIONS

P300

GENERAL HVAC NOTES

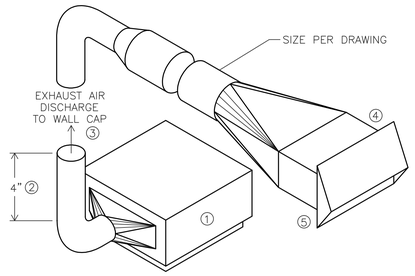
1. THE HVAC CONTRACTOR SHALL BE RESPONSIBLE TO EXAMINE THE SITE WITH RESPECT TO ALL EXISTING CONDITIONS AND TO HAVE FULLY EXAMINED THE DRAWINGS FOR THIS BUILDING WITH RESPECT TO HIS SCOPE OF WORK.
2. VISIT SITE AND BECOME FAMILIAR WITH ALL CONDITIONS. NO EXTRA PAYMENT WILL BE ALLOWED FOR WORK RESULTING FROM LACK OF PROPER APPRAISAL OF EXISTING CONDITIONS. THIS CONTRACTOR SHALL EXAMINE ALL OTHER SPECIFICATIONS, DRAWINGS, AND ALL FEATURES OF BUILDING CONSTRUCTION WHICH MAY AFFECT HIS WORK AND SHALL BE GOVERNED BY THESE OTHER SPECIFICATIONS, INSTRUCTIONS TO ALL BIDDERS AND SUPPLIERS.
3. THESE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC IN NATURE. ADDITIONAL OFFSETS, BENDS, TRANSITIONS, ETC. MAY BE REQUIRED TO PROVIDE AND INSTALL A COMPLETE SYSTEM. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO THE FABRICATION AND/OR INSTALLATION OF MATERIALS. NO ABRUPT TRANSITIONS ARE PERMITTED.
4. THE MECHANICAL DESIGN INDICATED ON PLANS IS INTENDED TO BE A COMPLETE AND WORKABLE SYSTEM IN ACCORDANCE W/ALL APPLICABLE CODES. ALL MISCELLANEOUS PARTS REQUIRED, WHETHER INDICATED ON PLANS OR NOT, SHALL BE INCLUDED AS PART OF THIS DRAWING.
5. CONTRACTOR SHALL COORDINATE LOCATION OF ALL HVAC WORK IN FIELD WITH REFERENCE TO STRUCTURAL ELEMENTS. DUCT LOCATIONS MAY VARY SLIGHTLY. ALL DIFFUSERS SHALL BE COORDINATED WITH LIGHTING AND OTHER CEILING MOUNTED ITEMS.
6. MATERIALS & WORKMANSHIP SHALL COMPLY WITH ALL APPLICABLE CODES AND ORDINANCES IN THEIR LATEST REVISION.
7. CONTRACTOR TO COORDINATE SPECIFIC REQUIREMENTS OF EQUIPMENT WITH MANUFACTURER'S SHOP DRAWINGS AND INSTALLATION INSTRUCTIONS.
8. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND COORDINATING ALL MECHANICAL EQUIPMENT VOLTAGES AND OTHER ELECTRICAL REQUIREMENTS PRIOR TO RELEASING THE EQUIPMENT FROM THE MANUFACTURER.
9. MECHANICAL CONTRACTOR SHALL FURNISH THE GENERAL CONTRACTOR EXACT DIMENSIONS OF OPENINGS REQUIRED FOR DUCTS, SLEEVES, ETC..
10. ALL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.
11. CONTRACTOR TO PROVIDE ONE SET OF FILTERS IN ADDITION TO THOSE IN UNITS.
12. CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING AND PATCHING NECESSARY FOR INSTALLATION OF HIS WORK.
13. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL EXISTING FIELD CONDITIONS PRIOR TO THE PURCHASE, FABRICATION, OR INSTALLATION OF NEW MATERIALS.
14. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BALANCE ALL SUPPLY AND RETURN AIR DUCTWORK AS TO ALLEVIATE AIR DELIVERY NOISE WHEREVER POSSIBLE AND TO COORDINATE ALL MATERIAL AND INSTALLATION METHODS WITH UNIT MANUFACTURER'S SPECS.
15. RETURN TRIP BY THE MC FOR ANY NEEDED AIR RE-BALANCING TO BE COMPLETED WITHIN THE FIRST SIX MONTHS AFTER INITIAL INSTALLATION OF EQUIPMENT, OR UPON REQUEST BY OWNER OR ARCHITECT.
16. CONTRACTOR TO SUBMIT SHOP DRAWINGS TO ENGINEER PRIOR TO FABRICATION.
17. ALL DUCTWORK CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
18. LOCATE ALL THERMOSTATS AND SWITCHES 4'-0" ABOVE FINISHED FLOOR.
19. ALL FLEXIBLE DUCTWORK SHALL BE A MAXIMUM OF 4'-0" IN LENGTH AND SHALL BE STRETCHED TAUT.
20. ALL DUCT SIZES ARE CLEAR INSIDE DIMENSIONS.
21. IN GENERAL, DUCT UPSETS AND DOWNSETS HAVE NOT BEEN SHOWN. CONTRACTOR TO COORDINATE THESE AS REQUIRED.
22. AIR INTAKE OPENINGS SHALL BE MINIMUM OF 10-0" AWAY FROM ALL EXHAUST AND VENT OPENINGS.
23. SUPPLY AND RETURN AIR DUCTS FOR CONDITIONED AIR LOCATED IN UNCONDITIONED SPACES (SPACES NEITHER HEATED OR COOLED) MUST BE INSULATED WITH A MINIMUM OF R-6. UNCONDITIONED SPACES INCLUDE ATTICS, CRAWL SPACES AND UNHEATED BASEMENTS.
24. WHEN DUCTS ARE LOCATED IN EXTERIOR COMPONENTS, (E.G., FLOORS OR ROOFS), MINIMUM R-5 INSULATION IS REQUIRED ONLY BETWEEN THE DUCT AND THE BUILDING EXTERIOR.
25. ALL JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS AND CONNECTIONS IN DUCTWORK MUST BE SECURELY SEALED USING WELDMENTS, MECHANICAL FASTENERS WITH SEALS OR GASKETS OR MASTICS, MESH AND MASTIC SEALING SYSTEMS OR TAPES. TAPES AND MASTICS MUST BE LISTED AND LABELED IN ACCORDANCE WITH UL-181A OR UL-181B.
26. DUCTS MUST BE CONNECTED TO FANS AND OTHER AIR DISTRIBUTION EQUIPMENT INCLUDING MULTI-ZONE TERMINAL UNITS USING MECHANICAL FASTENERS WITH SEALS, MASTICS OR GASKETS.
27. ALL DIFFUSER NECKS SHALL BE INSULATED EXTERNALLY WITH 2" DUCT WRAP.
28. PROVIDE TRAPS FOR ALL CONDENSATE DRAIN LINES.
29. CLEANING SYSTEMS: KEEP DUCTS FREE FROM FOREIGN MATTER AFTER INSTALLING THE SYSTEM.
30. OPERATION AND MAINTENANCE DOCUMENTATION SHALL BE PROVIDED TO THE OWNER THAT INCLUDES AT LEAST THE FOLLOWING INFORMATION:

    A. EQUIPMENT INPUT AND OUTPUT CAPACITY AND REQUIRED MAINTENANCE ACTIONS.
    B. EQUIPMENT OPERATIONS AND MAINTENANCE MANUALS.

31. MATERIALS OTHER THAN THOSE SPECIFIED OR PRE-APPROVED AS LISTED ON THE DRAWINGS AND SPECIFICATIONS, SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW NOT LESS THAN TEN WORKING DAYS PRIOR TO THE PROJECT BID DATE. SUBMITTALS MUST INCLUDE COMPLETE CATALOG NUMBERS AND SPECIFICATION SHEETS AND BE IN EITHER PDF FORMAT (PREFERRED) OR HARD COPY. FACSIMILES ARE NOT ACCEPTABLE.

HVAC LEGEND

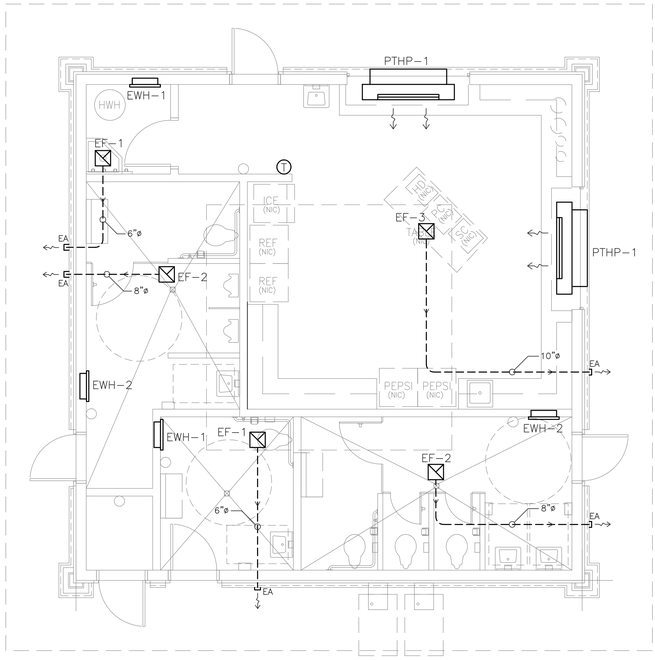
PTHP	PACKAGED TERMINAL HEAT PUMP SEE SCHEDULE FOR MORE INFORMATION
EWH	ELECTRIC WALL HEATER SEE SCHEDULE FOR MORE INFORMATION
T	THERMOSTAT – SEE PTHP SCHEDULE
	WALL MOUNTED INTAKE OR EXHAUST SUPPLIED BY GC TO MATCH DUCT
EF	EXHAUST WITH DUCT BY MC WIRING BY EC – SEE EXHAUST FAN SCHEDULE FOR TYPE AND MODEL NUMBERS.
	RETURN/EXHAUST DUCT
	SUPPLY DUCT
	DUCT AIR FLOW DIRECTION
	DIRECTION OF AIR FLOW
EA	EXHAUST AIR
RA	RETURN AIR



DETAIL NOTES

① CEILING EXHAUST FAN WITH DISCHARGE DAMPER.
② INSTALL TRANSITION ELBOW AND EXTEND DUCT UP TO 4" ABOVE LEVEL OF INSULATION IN CEILING. MOUNT SECURELY.
③ DISCHARGE FROM TOILET EXHAUST FANS.
④ TRANSITION TO WALL CAP OUTSIDE.
⑤ MOUNT SECURELY, CAULK WATERTIGHT.

DET 1 / M100S — BATHROOM EXHAUST FAN AND DUCT
SCALE: NOT TO SCALE



PLAN A / M100 — MECHANICAL PLAN
SCALE: 1/4" = 1' - 0"

PACKAGED TERMINAL HEAT PUMP SCHEDULE

TAG	AREA SERVED	MANUF.	MODEL NO.	MOUNTED	CFM/OA	COOLING CAPACITY	REVERSE CYCLE HEAT	ELECTRIC HEAT KW	ELECTRICAL DATA VOLTAGE/ø	EER	MCA	WEIGHT LBS.	REMARKS
PTHP-1	CONCESSION	FRIEDRICH	PDH12K	HORIZONTAL	280-350/75	11.8 MBH	10.5 MBH	9.9	208/1	10.5	27.0	118	SEE NOTES 1, 2, 3 & 4

NOTES:
1. PROVIDE WITH PXAA CLEAR EXTRUDED ALUMINUM GRILL.
2. PROVIDE WITH WALL MOUNTED DIGITAL REMOTE THERMOSTAT RT6, CONTROLLING BOTH UNITS AS STAGE ONE AND STAGE 2, PROVIDE OCCUPANCY SENSOR OVERRIDE.
3. PROVIDE WITH WALL SLEEVE PDXWS
4. PROVIDE COMPLETELY CONCEALED CONDENSATE DRAIN LINES.

ELECTRIC WALL HEATER SCHEDULE

TAG	AREA SERVED	MANUF.	MODEL	WATTS	BTUH	CFM	ELECTRICAL DATA VOLTAGE	PHASE	AMPS	REMARKS
EWH-1	JAN. CL. & SMALL BATH	MARKEL	3000 SERIES	750	2560	100	208	1	7	SEE NOTES 1 & 2
EWH-2	TOILET ROOMS	MARKEL	3320 SERIES	2250	7763	175	208	1	12	SEE NOTES 1 & 2

NOTES:
1. PROVIDED WITH TAMPERPROOF INTEGRAL THERMOSTAT.
2. POWER COATED FINISH.

EXHAUST FAN SCHEDULE

TAG	AREA SERVED	MANUF.	MODEL	FAN/MOTOR DATA CFM	EST. SP	RPM	SONES	DRIVE	HP	VOLTS	ø	DUCT CONNECTION	REMARKS
EF-1	JAN. CL. & SMALL BATH	ACME	VQ100	100	.125	640	.9	DIRECT	--	120	1	6"ø	SEE NOTE 1
EF-2	TOILET ROOMS	ACME	VQ100	210	.125	830	2.2	DIRECT	--	120	1	8"ø	SEE NOTE 1
EF-3	CONCESSION	ACME	VQ300	300	.125	905	2.9	DIRECT	--	120	1	10"ø	SEE NOTE 1

NOTES:
1. INSTALL WITH OCCUPANCY SENSOR AND TIME DELAY SWITCH.

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SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER NO: 17129 BRIAN E. BEST 5/29/20

SOUTH CAROLINA CERTIFICATE OF AUTHORITY BEST ENGINEERING NO: C02536

WAVERLY PARK
AT
WACCAMAW ELEMENTARY SCHOOL
1364 WAVERLY RD.
PAWLEY'S ISLAND, SC 29585

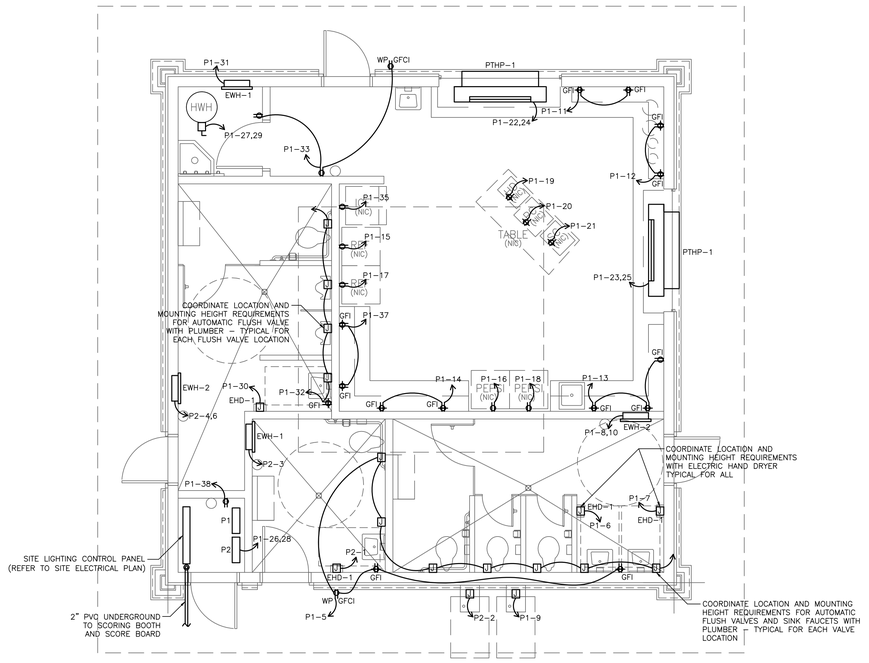
PROJECT NUMBER: 19-004-04
ISSUE DATE: 05/29/2020
DRAWN BY: BES
CHECKED BY: BES

CONSTRUCTION DOCUMENTS

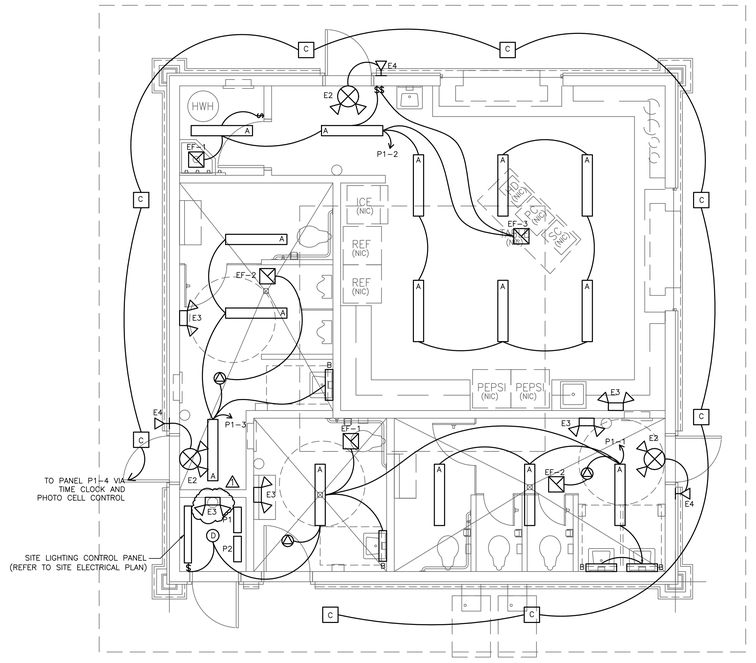
Revision Schedule		
#	Description	Date

MECHANICAL PLAN, NOTES, LEGEND & SCHEDULES

M100



PLAN A E100 **ELECTRICAL PLAN**
SCALE: 1/4" = 1' - 0"



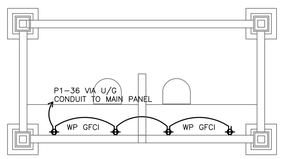
PLAN B E100 **LIGHTING PLAN**
SCALE: 1/4" = 1' - 0"

PLAN NOTES

1. VERIFY FINAL LOCATIONS AND MOUNTING DEPTH OF ALL BOXES WITH OWNER, FURNITURE SUPPLIER, GENERAL CONTRACTOR AND ARCHITECT BEFORE ROUGH IN.

ELECTRICAL LEGEND

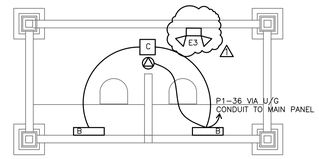
- DUPLEX RECEPTACLE COMMERCIAL GRADE 15A
- GFI / WP — GFI DUPLEX RECEPTACLE, COMMERCIAL GRADE 15A GFI OR WATERPROOF AS REQUIRED
- COUNTER HEIGHT DUPLEX RECEPTACLE 44" AFF - SEE ABOVE FOR TYPE AND MODEL # GFI OR WP AS NOTED
- HOME RUN TO PANEL 2 #12 W/ GND. U.N.O. OR AS REQUIRED BY LOAD
- BRANCH CIRCUIT WIRING 2 #12 IN 1/2" C. OR AS REQUIRED BY LOAD
- J — JUNCTION BOX
- P2 — ELECTRICAL PANEL
- EF — EXHAUST FAN AND DUCT BY MC WIRING BY EC
- DISCONNECT SWITCH SIZE PER EQUIPMENT REQUIREMENT
- $ — SINGLE POLE WALL SWITCH COMMERCIAL GRADE 15A
- $3 — THREE-WAY WALL SWITCH COMMERCIAL GRADE 15A
- $OS — OCCUPANCY SENSOR WALL SWITCH COMMERCIAL GRADE 15A WATTSTOPPER DW-100
- OCCUPANCY SENSOR CEILING MOUNTED WATTSTOPPER DT-300
- A / B — LIGHT FIXTURES - LETTER INDICATES TYPE - SEE SCHEDULE FOR MORE INFO
- EMERGENCY LIGHT PER LIGHT SCHEDULE
- EXIT LIGHT - COLOR SECTION INDICATES FACE SEE SCHEDULE FOR MORE INFORMATION
- REMOTE HEAD EMERGENCY LIGHT
- EHD — ELECTRIC HAND DRYER
- EWH — ELECTRIC WALL HEATER



NOTE:

PROVIDE COMMUNICATION AND DATA AS REQUIRED FOR SCOREBOARD AND ANNOUNCEMENT EQUIPMENT. VERIFY REQUIREMENTS W/OWNER. PROVIDE 2" CONDUIT UNDERGROUND TO MECH ROOM IN CONCESSION BUILDING FOR SINGLE USE.

PLAN C E100 **SCORE TOWER ELECTRICAL PLAN**
SCALE: 1/4" = 1' - 0"



NOTE:

CONTROL LIGHTING WITH CEILING OCCUPANCY SENSOR WITH DAY LIGHT OVERRIDE.

PLAN D E100 **SCORE TOWER LIGHTING PLAN**
SCALE: 1/4" = 1' - 0"

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SOUTH CAROLINA BEST ENGINEERING NO: C02536 CERTIFICATE OF AUTHORIZATION

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ELECTRICAL PLANS & LEGEND

E100

GENERAL ELECTRICAL NOTES

1. INSTALL ALL MATERIAL AND EQUIPMENT IN A NEAT AND WORKMAN LIKE WAY. INSTALLATIONS SHALL COMPLY WITH THE CURRENT EDITION OF THE NATIONAL ELECTRIC CODE (NEC), THE NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION (NECA), AND ANY OTHER LOCAL CODE HAVING JURISDICTION
2. PROVIDE ALL LABOR, MATERIALS, AND SUPERVISION NECESSARY TO ACCOMPLISH THE WORK AS SHOWN AND NOTED ON THE DRAWINGS. ANY DEVIATION FROM THE DRAWINGS SHALL BE APPROVED BY THE OWNER OR ENGINEER.
3. ALL WORK SHALL BE COORDINATED WITH THE OTHER TRADES.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS.
6. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL HIS TOOLS, DEBRIS, AND GENERAL CLEANUP FROM HIS WORK.
7. THE ELECTRICAL CONTRACTOR SHALL DO ALL CUTTING AND PATCHING OF BUILDING MATERIALS REQUIRED FOR THE INSTALLATION HIS WORK.
8. ALL RACEWAYS SHALL BE RUN CONCEALED IN CEILING, WALLS OR FLOOR SLABS
9. IN GENERAL, CONDUIT RUNS BETWEEN PULL BOXES SHALL NOT EXCEED THE EQUIVALENT OF TWO 90 DEGREE BENDS AND IN NO CASE EXCEED THREE EQUIVALENT 90 DEGREE BENDS. IN LONG STRAIGHT CONDUIT RUNS LOCATE PULL BOXES AT 100 FOOT INTERVALS. INSTALL ELECTRICAL BOXES AS SHOWN ON DRAWINGS, AND AS REQUIRED FOR SPLICES, TAPS, WIRE PULLING, EQUIPMENT CONNECTIONS, AND REGULATORY REQUIREMENTS. USE CAST BOXES IN MANHOLE AND IN OUTSIDE LOCATIONS.
10. ALL CONDUCTORS TO BE SOFT DRAWN COPPER WITH 600 VOLT INSULATION MINIMUM SIZE TO BE #12 AWG. WIRE SIZED #10 AWG AND SMALLER SHALL BE SOLID COPPER WITH TYPE 'THWN' OR 'THHN' INSULATION. CABLE SIZED #8 AND LARGER SHALL BE STRANDED COPPER WITH TYPE 'THWN' OR 'XHHW' INSULATION EXCEPT WHERE NOTED OTHERWISE. ALL WIRING SHALL BE INSTALLED IN, PVC CONDUIT. COMPLETELY SWAB RACEWAYS BEFORE INSTALLING CONDUCTORS.
11. PROVIDE CONNECTIONS TO ALL EQUIPMENT, MOTORS, ETC. FURNISHED BY OTHERS TO MAKE A COMPLETE, WORKING INSTALLATION.
12. INSTALL WIRE MARKERS ON EACH CONDUCTOR IN PANELBOARD GUTTERS. PULL BOXES, OUTLET, AND JUNCTION BOXES, AND AT LOAD CONNECTIONS:
    A. USE BRANCH CIRCUIT OR FEEDER NUMBER TO IDENTIFY POWER AND LIGHTING CIRCUITS.
    B. USE CONTROL WIRE NUMBER AS INDICATED ON SCHEMATIC AND INTERCONNECTION DIAGRAMS TO IDENTIFY CONTROL WIRING.
13. PROVIDE A TYPEWRITTEN PANEL SCHEDULE FOR EACH PANEL USED IN THIS PROJECT.
14. CONNECT EMERGENCY LIGHTING TO LOCAL LIGHTING CIRCUITS, AHEAD OF ANY SWITCHES. DO NOT CONNECT TO LIGHTING CIRCUITS THAT ARE SWITCHED AT THE PANEL.
15. WHEN INSTALLING RECESSED LIGHT FIXTURES IN AN INSULATED CEILING, PROVIDE A WIRE CAGE OVER THE FIXTURE TO KEEP INSTALLATION 6" OFF THE FIXTURE.
16. MAKE ALL NECESSARY TESTS TO INSURE THAT THE ENTIRE INSTALLATION IS FREE FROM IMPROPER GROUNDS AND FROM SHORTED AND/OR OPEN CIRCUITS. VOLTAGE AND CURRENT TESTS SHALL BE MADE BEFORE ANY CIRCUITS ARE PLACED IN OPERATION.
17. IT IS THE INTENT OF THIS SPECIFICATION FOR THE CONTRACTOR TO PROVIDE A COMPLETE AND OPERABLE ELECTRICAL SYSTEM WITHOUT ANY EXCEPTIONS. IN THE UNLIKELY CASE WHERE THESE PLANS AND SPECIFICATIONS SHOW OTHERWISE DUE TO ERRORS OR OMISSIONS THE CONTRACTOR SHALL PROVIDE A LIST OF EXCEPTIONS WITH HIS BID. OTHERWISE, EXTRAS DURING CONSTRUCTION WILL NOT BE ALLOWED IN ORDER TO PROVIDE A COMPLETE AND OPERABLE ELECTRICAL SYSTEM.

LIGHTING FIXTURE SCHEDULE

TAG	FIXTURE TYPE	DIFFUSER	COLOR	MTG	LAMP NO.	LAMP TYPE	LAMP WATTS	VOLTS	MANUFACTURE & MODEL	LOCATION/REMARKS
A	4' LED LIGHT FIXTURE	POLYCARBONATE	WHITE	SURFACE	1	LED	45	120	KENALL N1048-P-1-45L35K-DCC-1-120	
B	2' LED LIGHT FIXTURE	POLYCARBONATE	WHITE	WALL	1	LED	25	120	KENALL R524-1-25L35K-DCC-1-120-WL	WET LOCATION RATED
C	12" SQUARE	POLYCARBONATE	DARK BRONZE	SURFACE	1	LED	25	120	KENALL H1212FM-PP-DB-25L35K-120	WET LOCATION RATED
D	ROUND UTILITY	POLYCARBONATE	WHITE	SURFACE	1	LED	12	120	BROWNLEE 2050-11-WH-B12-WHP	
E1	EXIT	POLYCARBONATE	WHITE	SURFACE	–	LED	4.5	120	KENALL METSU-MW-R-DT-EL	
E2	EMERGENCY EXIT COMBO	POLYCARBONATE	WHITE	SURFACE	2	LED	6.5	120	KENALL METEC-40N-MW-R-4-6.5L-120	
E3	EMERGENCY	POLYCARBONATE	WHITE	SURFACE	2	LED	6.5	120	KENALL METELHC-40N-MW-4-6.5L-120	
E4	EMERGENCY REMOTE HEAD	POLYCARBONATE	WHITE	SURFACE	1	LED	6.5	120	KENALL METER-MW-2-6.5L-12VAC/DC	

PANELBOARD DESIGNATION P2 LOCATION CONCESSION ELEC CLOSET
120/240 VOLTS 1 PH. 3 WIRE SOLID NEUTRAL MOUNTING: FLUSH ✓ SURFACE __
50 AMPERE BUS 50 AMPERE MAIN LUG FED FROM: TOP ✓ BOTTOM __
AMPERE INT.CAP. SPECIAL

No	KVA	DESCRIPTION	A	B	DESCRIPTION	KVA	No
1	1	EWH	1.7		WATER COOLER	.7	2
3	1.5	EHD		2.6	EWH	1.1	4
5			1.1	20		1.1	6
7							8
9							10
11							12
13							14
15							16
17							18
19							20
			KVA SUB TOTALS	2.8 2.6	DEMAND FACTOR .8		
			CONN'D LOAD KVA 5.4	DEMAND LOAD KVA 4.3	DEMAND AMPERES 18.0		

PANEL NOTES

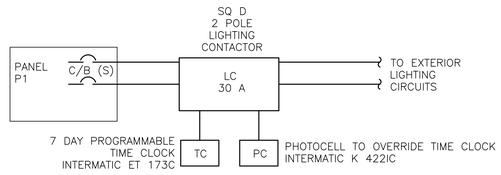
1. ALL BREAKERS SHALL BE 1P 20A U.N.O. UN LESS OTHER WISE NOTED.
2. ALL BREAKERS SHALL BE BOLT ON TYPE.

PANELBOARD DESIGNATION P1 LOCATION CONCESSION ELEC CLOSET
120/240 VOLTS 1 PH. 3 WIRE SOLID NEUTRAL MOUNTING: FLUSH ✓ SURFACE __
225 AMPERE BUS 225 AMPERE MAIN LUG FED FROM: TOP ✓ BOTTOM __
10K AMPERE INT.CAP. SPECIAL SQ D NQO PANELBOARD

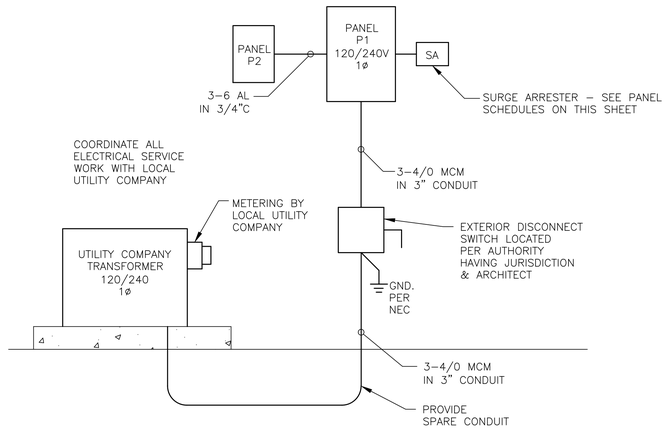
No	KVA	DESCRIPTION	A	B	DESCRIPTION	KVA	No
1	.5	WOMENS LIGHTS	1.2		CONCESSION LIGHTS	.7	2
3	.5	MENS LIGHTS		1	EXTERIOR LIGHTS	.5	4
5	1	WOMENS REC	2.5		EHD	1.5	6
7	1.5	EHD		2.6	EWH	1.1	8
9	.7	WATER COOLER	1.8	20		1.1	10
11	1	CONCESSION REC		2	CONCESSION REC	1	12
13	1	CONCESSION REC	2		CONCESSION REC	1	14
15	1	REFRIGERATOR		2	DRINK COOLER	1	16
17	1	REFRIGERATOR	2		DRINK COOLER	1	18
19	1	CONCESSION REC		2	CONCESSION REC	1	20
21	1	CONCESSION REC	6		PTAC	5	22
23	5	PTAC		10 35		5	24
25	5		35 7.8		PANEL P2	2.8	26
27	2.2	WATER HEATER		4.8 50		2.6	28
29	2.2		30 3.7		EHD	1.5	30
31	1	EWH		2	MENS REC	1	32
33	1	CONCESSION REC	1.5		EM & EXIT LIGHTS	.5	34
35	1	ICE MAKER		2	SCORE BOOTH	1	36
37	1	CONCESSION REC	2		SCORE BOARD	1	38
39		SURGE ARRESTER SEE PANEL NOTE 3			SCORE BOARD	1	40
41			30				42
			KVA SUB TOTALS	30.5 28.4	DEMAND FACTOR .8		
			CONN'D LOAD KVA 59.0	DEMAND LOAD KVA 47.2	DEMAND AMPERES 196.7		

PANEL NOTES

1. ALL BREAKERS SHALL BE 1P 20A U.N.O. UN LESS OTHER WISE NOTED.
2. ALL BREAKERS SHALL BE BOLT ON TYPE.
3. PROVIDE WITH SQUARE D SURGE PROTECTOR.



DET 1 / E200S EXTERIOR LIGHTING CONTROL WIRING
SCALE: NOT TO SCALE



DET 1 / E200S ELECTRICAL ONE-LINE RISER DIAGRAM
SCALE: NOT TO SCALE

TYPICAL MOUNTING HEIGHTS

ITEM	MOUNTING HEIGHT
SWITCHES	46" A.F.F. TO CENTER
RECEPTACLES	16" A.F.F. TO CENTER
COUNTER HEIGHT RECEPTACLES	48" A.F.F. TO CENTER
EXTERIOR W.P. G.F.I. RECEPTACLES	30" A.F.F. TO CENTER
CATV, PHONE & DATA JACKS	16" A.F.F. TO CENTER
EMERGENCY LIGHTS	84" A.F.F. TO TOP
EXIT LIGHTS – CEILING MOUNTED	MOUNT IN CEILING
EXIT LIGHTS – WALL MOUNTED	84" TO CENTER OR OVER DOOR
TYPICAL VANITY LIGHT	82" A.F.F. TO CENTER
CATV AND PHONE PANELS	36" A.F.F. TO CENTER
ELECTRICAL PANELS	72" A.F.F. TO TOP

NOTES:

1. UNLESS NOTED ELSEWHERE ON THE CONTRACT DOCUMENTS, THIS LIST REPRESENTS THE TYPICAL MOUNTING HEIGHTS REQUIRED FOR THE DEVICES SHOWN.
2. THE HEIGHTS INDICATED SHALL BE NOMINAL TO THE CENTER OF THE BOX, REQUIRING ONLY ONE BLOCK CUT FOR FLUSH MOUNTED DEVICES. MAINTAIN HEIGHT CONSISTENCY BETWEEN SURFACE AND FLUSH MOUNTED DEVICES.
3. CONTRACTOR TO VERIFY FINAL LOCATIONS AND MOUNTING DEPTH OF ALL BOXES WITH OWNER, FURNITURE SUPPLIER, GENERAL CONTRACTOR AND ARCHITECT BEFORE ROUGH IN.

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ELECTRICAL NOTES, DETAILS & SCHEDULES

E200