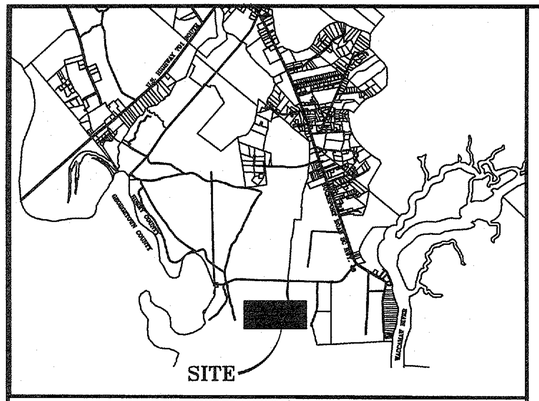


LOCATION MAP
N.T.S.

Horry County
Engineering
APPROVABLE

SITE CONSTRUCTION PLANS FOR:

GSWSA BUCKSPORT COMPOSTING SHED EXPANSION

Includes Stormwater & Grading.

STORM WATER MANAGEMENT
StormWater
APPROVABLE

Horry County
Planning and Zoning
APPROVABLE

PERMIT NUMBERS
OCRM PERMIT No.: 26-10-06-02, SCR19M921 DATED: 07/27/10 EXP: 07/27/15
COASTAL ZONE CONSISTENCY ID No.: 7026 DATED: 06/29/10
HORRY COUNTY STORMWATER PERMIT No.: 1863 APPROVED 07/21/10

ENGINEERING / PLANNING
LAND SURVEYING
3901 N. Kings Hwy., Ste. 22A
Myrtle Beach, SC 29577
Telephone: 843-448-0910
Fax: 843-448-0969
www.castlesengineering.com
Castles Engineering

SPECIFICATIONS LIST

1.) WATER AND SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND SPECIFICATIONS OF *GRAND STRAND WATER & SEWER AUTHORITY AND SCDHEC.*

2.) ROAD AND DRAINAGE CONSTRUCTION SHALL BE IN ACCORDANCE WITH *THE CURRENT HORRY COUNTY LAND DEVELOPMENT REGULATIONS, THE STORMWATER ORDINANCE OF HORRY COUNTY AND SCDHEC-OCRM REGULATIONS.*

3.) ADDITIONAL SPECIFICATIONS SHALL BE AS NOTED ON THESE PLANS.

FLOOD ZONE INFORMATION

THIS PROPERTY IS LOCATED IN FLOOD ZONE "X" AS SCALED FROM F.I.R.M. No. 45051C0665 H DATED AUGUST 23, 1999.

HORIZONTAL DATUM: NAD 83
VERTICAL DATUM: NAVD 88
BENCHMARK: AS SHOWN ON PLANS

3 DAYS BEFORE DIGGING IN SOUTH CAROLINA
CALL 1-800-922-0983
PALMETTO UTILITY PROTECTION SERVICE

CONTRACTOR'S RESPONSIBILITIES:

CONTRACTOR SHALL BE KNOWLEDGEABLE WITH LOCAL, CITY, COUNTY, STATE, AND FEDERAL REGULATIONS AS THEY MAY PERTAIN TO THIS DEVELOPMENT AND SHALL ADHERE TO THESE REGULATIONS.

UNDERGROUND UTILITIES:

INFORMATION REGARDING THE PRESENCE, SIZE, CHARACTER, AND LOCATION OF ANY UNDERGROUND UTILITY AND/OR STRUCTURE SHOWN ON THIS PLAN IS APPROXIMATE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE ALL UNDERGROUND UTILITIES LOCATED.

GEOTECHNICAL CONSULTANT

S&ME
1330 HWY 501 BUSINESS
CONWAY, SC 29526
(843) 347-7800

LAND SURVEYOR

ASSOCIATED LAND SURVEYORS
2411 OAK STREET, SUITE 304
MYRTLE BEACH, SC 29577
(843) 626 7393

OWNER/ DEVELOPER

GSWSA
P.O. BOX 2368
CONWAY, SC 29528
(843) 443-8200
CONTACT:

CONTRACTOR

GSWSA
P.O. BOX 2368
CONWAY, SC 29528
(843) 443-8200
CONTACT:

REFERENCES:

1.) WETLAND SURVEY OF SITE DATED FEB. 23, 1999 FOR GRAND STRAND WATER & SEWER BY ASSOCIATED LAND SURVEYORS.

2.) TOPOGRAPHIC SURVEY OF SITE DATED NOV. 16, 2009 BY ASSOCIATED LAND SURVEYORS.

2.) GSWSA BUCKSPORT COMPOSTING FACILITY AS-BUILTS DATED JUNE 9, 2011 BY CASTLES ENGINEERING.

PROJECT SUMMARY:
COMPOSTING FACILITY LOCATED IN BUCKSPORT, HORRY COUNTY, SC
TAX PARCEL: TMS# 183-00-04-055 CURRENT ZONING: LFA
TOTAL PROJECT AREA = 0.88 ACRES
PROPOSED LAND DISTURBANCE AREA = 0.88 ACRES
CL LENGTH OF ROAD = N/A
ROAD RIGHT-OF-WAY = N/A
OPEN SPACE = N/A
RESIDENTIAL LOTS LOTS = N/A
DENSITY = N/A
PROPOSED USE: COMPOST FACILITY
ROADS AND DRAINAGE: N/A
LAKES AND OPEN SPACE: N/A
WATER AND SEWER: N/A

SHEET INDEX

DESCRIPTION	SHEET
COVER SHEET	C-S
GRADING, DRAINAGE & EC	C-1
DETAILS	C-2

NO.	DATE	DESCRIPTION	SHEETS AFFECTED	BY

PURPOSE OF ISSUE:
PERMIT SET

COVER SHEET
BUCKSPORT COMPOSTING SHED EXPANSION
for
GRAND STRAND WATER & SEWER AUTHORITY
HORRY COUNTY, SOUTH CAROLINA

SCALE:	NTS
DESIGNED BY:	CCR
DRAWN BY:	CCR
CHECKED BY:	JRP
DATE ISSUED:	6/20/12

Number	Date	Revisions

SOUTH CAROLINA CASTLES CONSULTING ENGINEERS, INC. No. 002350 CERTIFICATE OF AUTHORIZATION

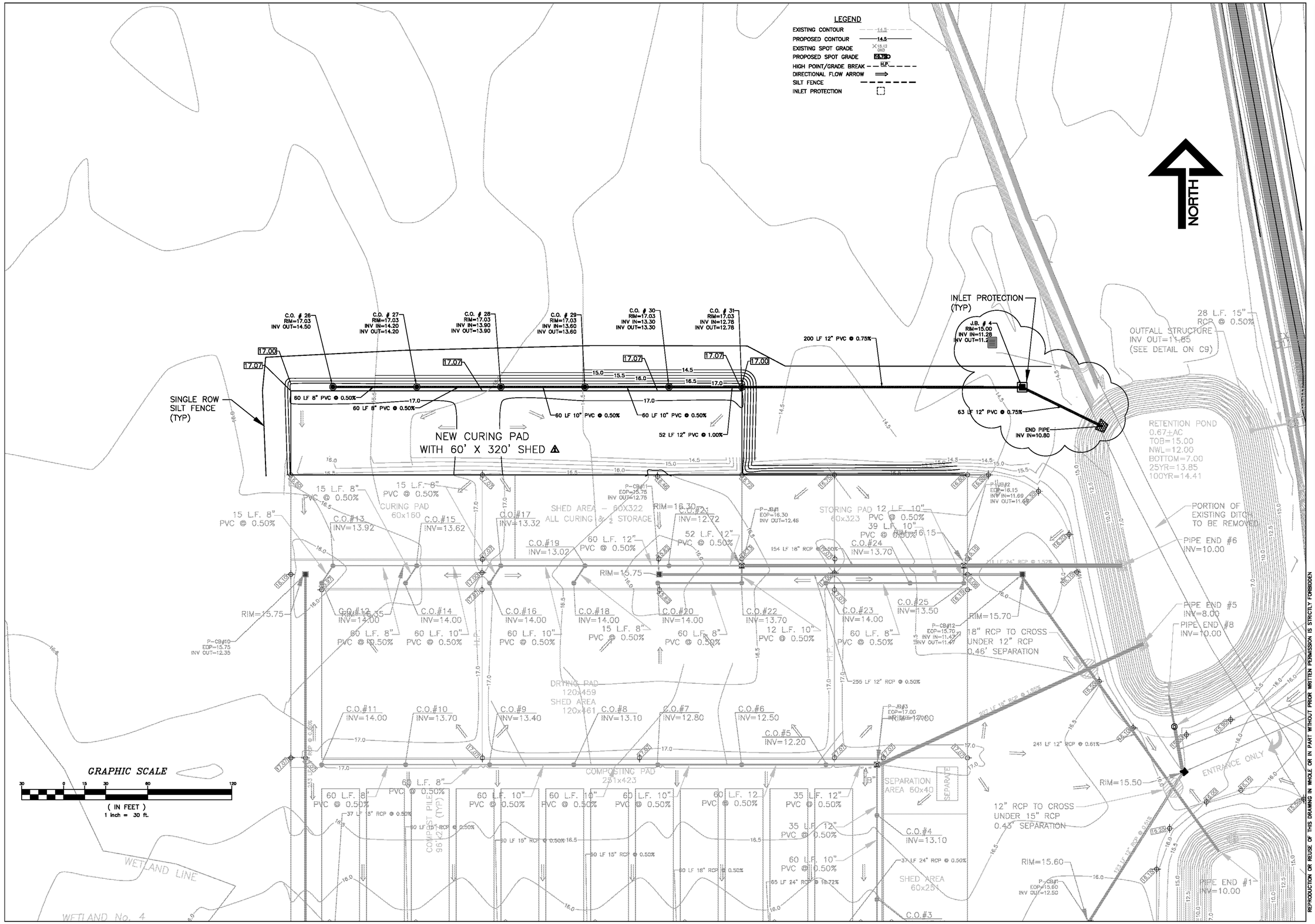
SOUTH CAROLINA PROFESSIONAL ENGINEER No. 20984 JOHN R. POSTON

SHEET NUMBER:
CS

PROJECT#: 12.019

DWG NAME: P:\12019-GSWSA BUCKSPORT COMPOSTING SHED EXPANSION\DESIGN\DWG\SHEET SETS\12019 PLAN SET.DWG

REPRODUCTION OR REUSE OF THIS DRAWING IN WHOLE OR IN PART WITHOUT PRIOR WRITTEN PERMISSION IS STRICTLY FORBIDDEN



DWG NAME: 09.030_GRADING&EROSION

ENGINEERING / PLANNING
LAND SURVEYING
2411 Oak Street, Suite 304
Myrtle Beach, SC 29577
Telephone: 843-448-0910
Fax: 843-448-0969
www.castlesengineering.com
Castles Engineering

GRADING, DRAINAGE & EC PLAN

BUCKSPORT COMPOSTING SHED EXPANSION

for

GRAND STRAND WATER & SEWER AUTHORITY
HORRY COUNTY, SOUTH CAROLINA

SCALE:	1"=30'
DESIGNED BY:	CCR
DRAWN BY:	CCR
CHECKED BY:	JRP
DATE ISSUED:	06/20/12

Number	Date	Revisions
1	06/7/10	ADDED NOTE TO SIGNIFY SHED LOCATION
2		
3		
4		
5		
6		
7		

SOUTH CAROLINA CASTLES CONSULTING ENGINEERS, INC. No. 000860 CERTIFICATE OF AUTHORIZATION

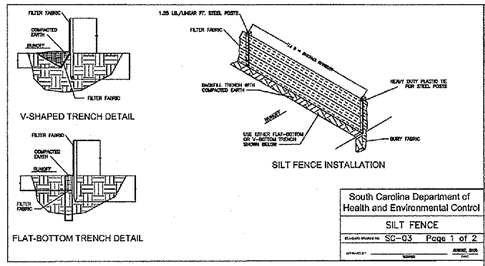
SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER NO. 20984 JOHN R. POSTON

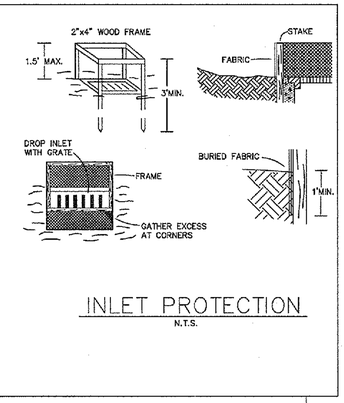
SHEET NUMBER:

C1

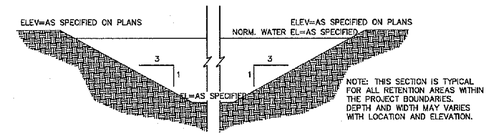
PROJECT#: 12.019

REPRODUCTION OR REUSE OF THIS DRAWING IN WHOLE OR IN PART WITHOUT PRIOR WRITTEN PERMISSION IS STRICTLY FORBIDDEN

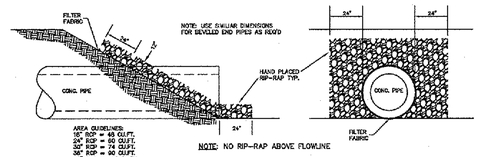




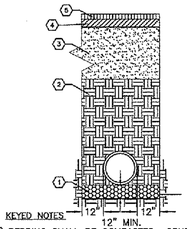
INLET PROTECTION
N.T.S.



RETENTION POND SECTION



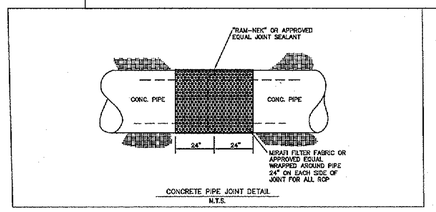
PIPE END RIP-RAP



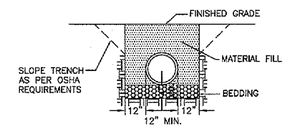
KEYED NOTES

1. BEDDING SHALL BE COMPACTED CRUSHED STONE (CLASS 1 MATERIAL) SHAPED TO THE BOTTOM OF THE PIPE.
2. MINIMUM 18" STABLE COMPACTED FILL
3. 10" GRADED AGGREGATE BASE (SCDOT SECTON 305) COMPACTED TO 100% OF THE SOILS' MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D-1557)
4. 1.5" TYPE 1C BINDER
5. 1.5" TYPE 1 HOT MIX ASPHALT SURFACE COURSE (SCDOT SECTION 403)

REINFORCED CONCRETE PIPE BEDDING IN PAVEMENT AREAS

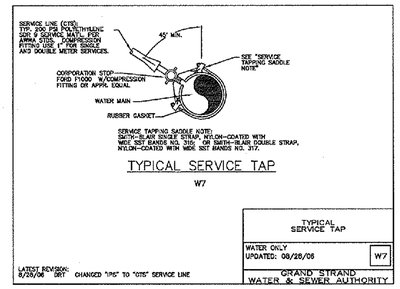


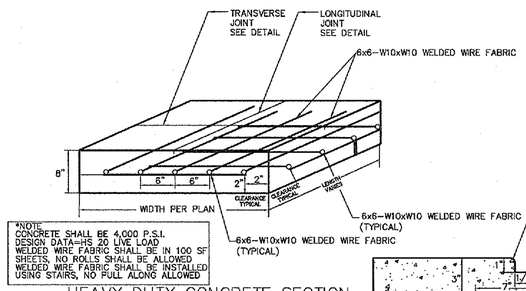
CONCRETE PIPE JOINT DETAIL
N.T.S.



NOTES:
1. BEDDING SHALL BE COMPACTED AND CRUSHED STONE (CLASS 1 MATERIAL) SHAPED TO THE BOTTOM OF THE PIPE.
2. SELECT FILL SHALL BE NATIVE MATERIAL FREE OF LARGE ROCKS, DEBRIS OR ORGANICS AND PLACED IN 6" OR 8" LOOSE LIFTS AND COMPACTED TO MIN. 90% OF THE SOILS STANDARD PROCTOR.

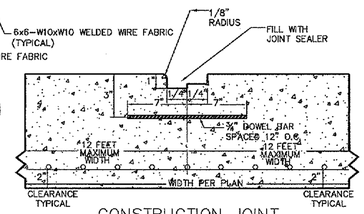
REINFORCED CONCRETE PIPE & PVC PIPE BEDDING IN UNPAVED AREAS



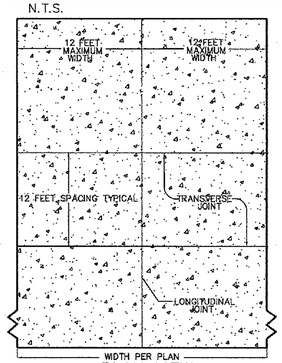


*NOTE:
CONCRETE SHALL BE 4,000 P.S.I.
DESIGN DATA=HS 20 LIVE LOAD
WELDED WIRE FABRIC SHALL BE IN 100 SF SHEETS, NO ROLLS SHALL BE ALLOWED
WELDED WIRE FABRIC SHALL BE INSTALLED USING STAIRS, NO FULL ALONG ALLOWED

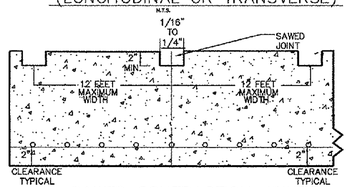
HEAVY DUTY CONCRETE SECTION
ISOMETRIC VIEW
N.T.S.



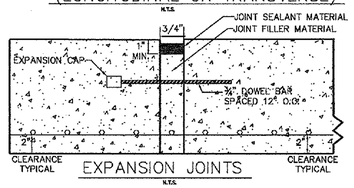
CONSTRUCTION JOINT
(LONGITUDINAL OR TRANSVERSE)
N.T.S.



PLAN VIEW
N.T.S.



SAWED CONTRACTION JOINTS
(LONGITUDINAL OR TRANSVERSE)
N.T.S.

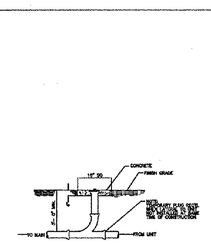


EXPANSION JOINTS
N.T.S.

JOINTING DETAILS

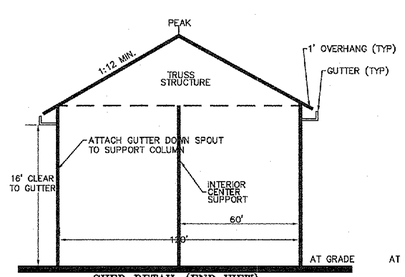
1). JOINTS SHALL BE INSTALLED IN BOTH LONGITUDINAL AND TRANSVERSE DIRECTIONS.
2). LONGITUDINAL JOINTS SHALL BE INSTALLED AT 12 FEET MAXIMUM SPACING.
3). TRANSVERSE JOINTS SHALL BE INSTALLED AT 12 FEET MAXIMUM SPACING.
4). CONSTRUCTION JOINTS SHALL BE INSTALLED AT THE END OF EACH DAY'S RUN OR WHERE PAVING OPERATIONS ARE SUSPENDED FOR 30 MINUTES OR MORE.
5). EXPANSION JOINTS SHALL BE INSTALLED WHERE SLAB ABUTS BUILDINGS, POLES, MANHOLES, DRAINAGE STRUCTURES, OR OTHER PAVEMENTS.
6). EXPANSION JOINTS SHALL NOT BE LESS THAN 1 FOOT FROM ANY LONGITUDINAL JOINT.
7). SUBGRADE MATERIAL SHALL BE IN ACCORDANCE WITH GEOTECHNICAL REPORT AND IN NO CASE SHALL BE LESS THAN 6" GABC PER SCDOT STANDARD SPECIFICATIONS.
8). PRIOR TO PLACEMENT OF BASE COURSE, A NON-WOVEN GEOTEXTILE FABRIC (PROPEX GEOTEX 809 OR APPROVED EQUAL) SHALL BE PLACED ON SUB-GRADE PER GEOTECHNICAL REPORT.
9). REINFORCING STEEL SHALL CONFORM TO AASHTO M-31, GRADE 60.
10). JOINT SEALANT MATERIAL SHALL BE DOW CORNING 888 SILICONE JOINT SEALANT OR APPROVED EQUAL.

HEAVY DUTY CONCRETE SECTION
(ATB)

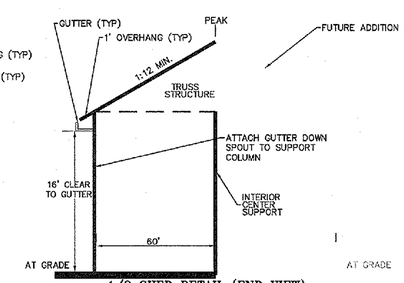


TYPICAL SEWER CLEANOUT
S9

TYPICAL SEWER CLEANOUT
SEWER ONLY
UPDATED: 12/16/97
S9
GRAND STRAND WATER & SEWER AUTHORITY



SHED DETAIL (END VIEW)
N.T.S.



1/2 SHED DETAIL (END VIEW)
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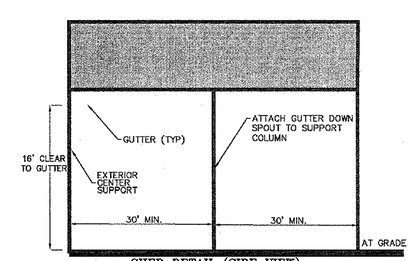

SHED DETAIL (SIDE VIEW)
N.T.S.

ENGINEERING / PLANNING
LAND SURVEYING
2411 Oak Street, Suite 304
Myrtle Beach, SC 29577
Telephone: 843-448-0910
Fax: 843-448-0969
www.castlesengineering.com
Castles Engineering

DETAILS

BUCKSPORT COMPOSTING SHED EXPANSION

for

GRAND STRAND WATER & SEWER AUTHORITY
HORRY COUNTY, SOUTH CAROLINA

SCALE:	N.T.S
DESIGNED BY:	CCR
DRAWN BY:	CCR
CHECKED BY:	JRP
DATE ISSUED:	06/20/12

Number	Date	Revisions
△		
△		
△		
△		
△		
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△		

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
CASTLES CONSULTING ENGINEERS, INC.
No. COC050

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
NO. 20964
JOHN R. POSTON

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SHEET NUMBER:

C2

PROJECT#: 12.019

DWG NAME: 09.030_GRADING&EROSION