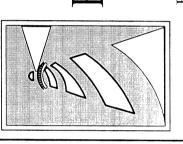
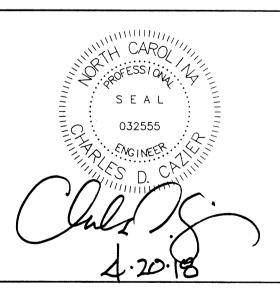


VICINITY MAP (NOT TO SCALE):

REVISIONS

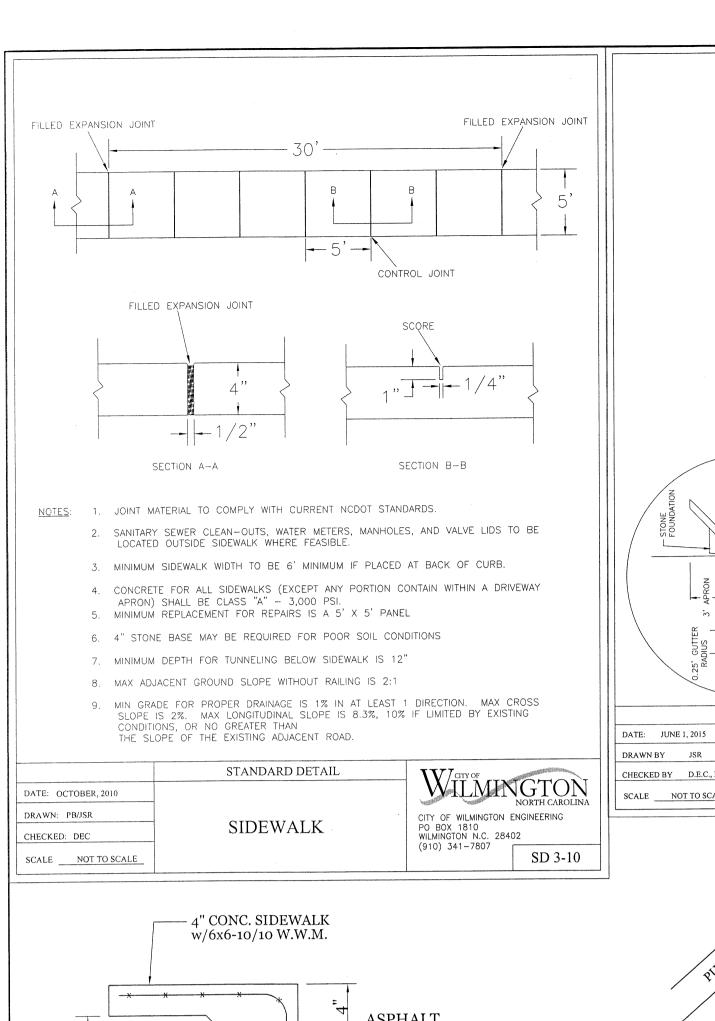




CLIENT INFORMATION: Brothers Three Of Palm County Inc. Steve Campbell 1601 Limpkin Ct. Wilmington, NC 28403 910-471-2613 scampbell@bluecoastrealestate.com

DRAWN:	JAE	SHEET SIZE:	24x36
CHECKED:	CDC	DATE:	4/20/2018
APPROVED:	CDC	SCALE:	1" = 10'
PROJECT NUMBER:		2018-008	

DRAWING NUMBER: C-1



TURNDOWN SIDEWALK

ADA PARKING SPACE AND ACCESS PATH TO BE CONCRETE

CONCRETE PARKING AREA SECTION

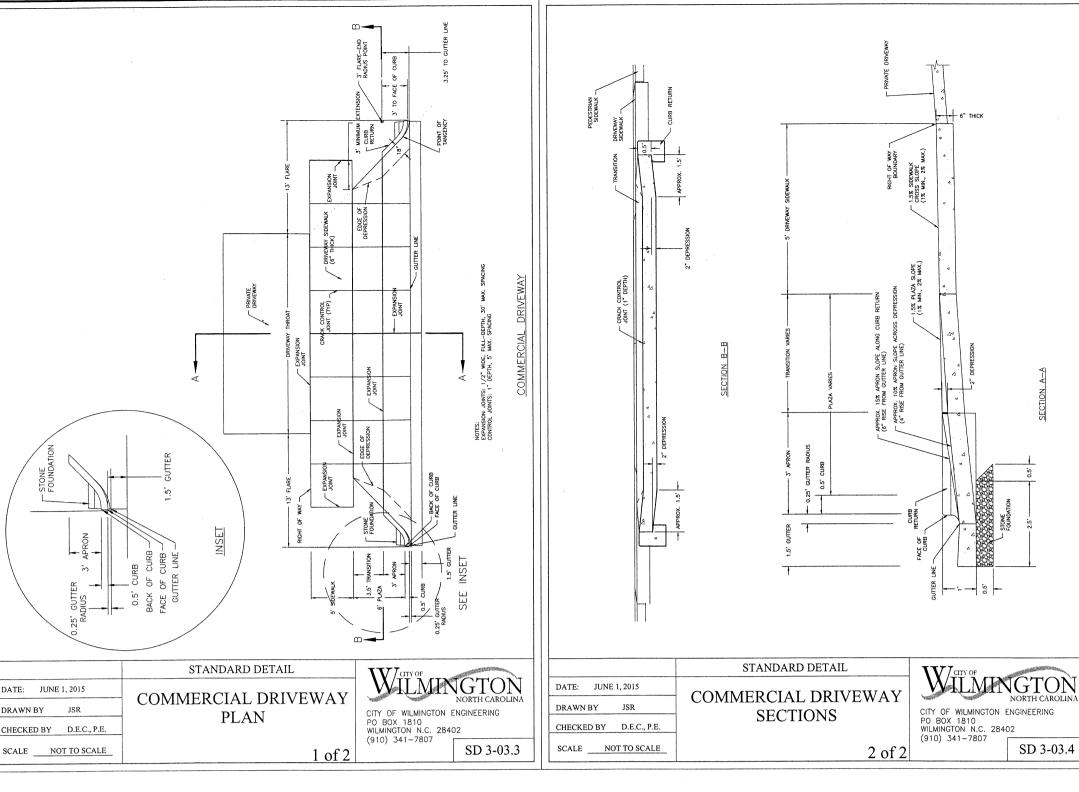
TYPICAL GRAVEL PARKING DETAIL

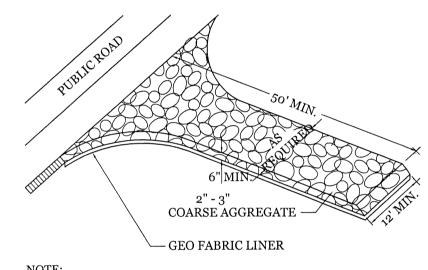
6" X 6" P.T. LANDSCAPE TIMBERS

1" DIA ROD @ 5' MAX SPACING

6" CONCRETE

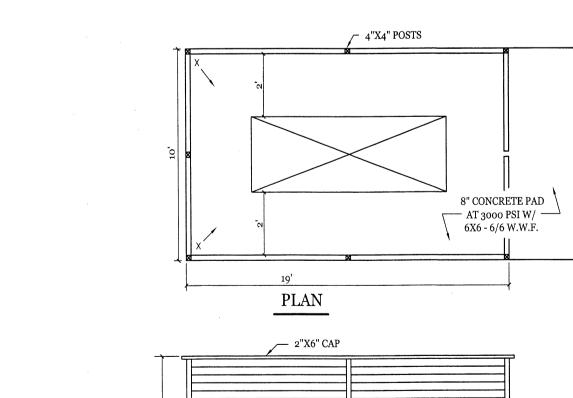
4" WASHED #57 STONE

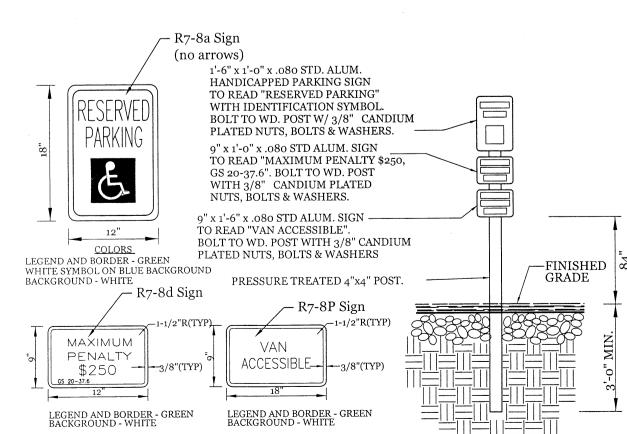




CONSTRUCTION ENTRANCE TO BE 12' OR ENTIRE WIDTH OF ENTRANCE. WHICHEVER IS GREATER.

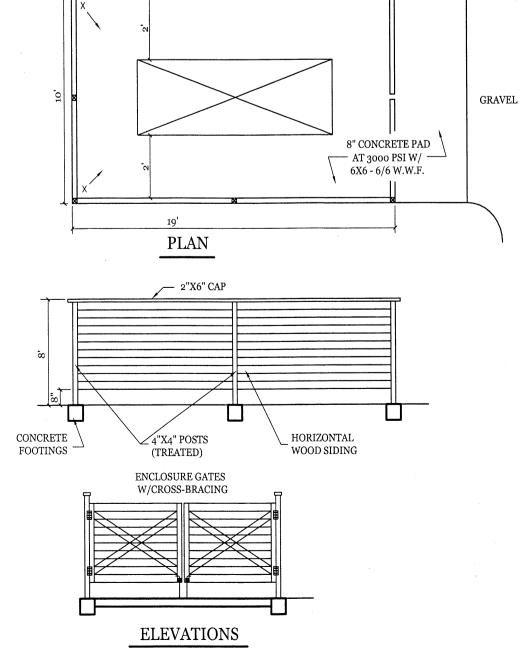
TEMPORARY GRAVEL CONSTRUCTION ENTRANCE





LANDSCAPE ISLAND

TYPICAL HANDICAPPED SIGN DETAIL NTS



DUMPSTER PAD & ENCLOSURE DETAIL

SYMBOL	GROUND STABILIZATION CRITERIA			
	SITE AREA DESCRIPTION	STABILIZATION TIMEFRAME	STABILIZATION TIMEFRAME EXCEPTIONS	SEE
X	* Perimeter dikes, ditches and slopes	7 Days	None	LATE
	* High Quality Water (HQW) Zones	7 Days	None	Rye (g Annua and Co
AAAAA	* Slopes Steeper than 3:1	7 Days	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed	Omit of of tem
* * * * * * * * * * * * * * * * * * *	* Slopes 3:1 or flatter	14 Days	7-days for slopes greater than 50 ft. in length	Germa In the a smal
	* All other areas with slopes flatter than 4:1	14 Days	None (except for perimeters & HQW Zones)	substit
DING WASTE HA	NDLING:			FALL Rye (g

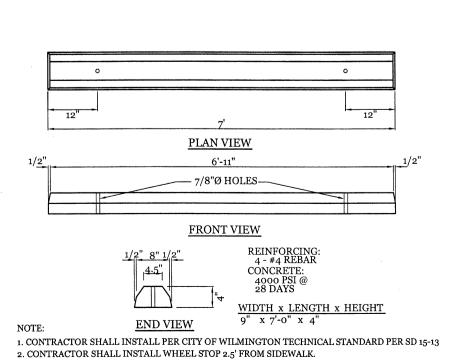
- CONCRETE MATERIALS MUST BE CONTROLLED TO AVOID CONTACT WITH SURFACE

INSPECTION REPORTS MUST BE AVAILABLE ON-SITE DURING BUSINESS HOURS UNLESS A SITE-SPECIFIC EXEMPTION IS APPROVED.

SEDIMENT BASINS:

- OUTLET STRUCTURES MUST BE WITHDRAWN FROM BASIN SURFACES UNLESS

- USE ONLY DWQ APPROVED FLOCCULANTS.



WHEEL STOP DETAIL

SITE WORK NOTES:

1. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS BOTH ON AND ADJACENT TO THE SITE

2. CLEARING: CONTRACTOR SHALL REMOVE ALL TREES AND VEGETATION WITHIN LIMITS OF CONSTRUCTION UNLESS OTHERWISE DESIGNATED TO REMAIN. GRUBBING AND STRIPPING: CONTRACTOR SHALL RAKE AND REMOVE ROOTS, STUMPS, VEGETATION, DEBRIS, EXISTING STRUCTURES ABOVE AND BELOW GRADE, ORGANIC

MATERIAL OR ANY OTHER UNSUITABLE MATERIAL WITHIN LIMITS OF CONSTRUCTION.

MUCKING: CONTRACTOR SHALL COORDINATE WITH OWNER AND THEIR GEOTECHNICAL REPRESENTATIVE TO COORDINATE REMOVAL OF ANY SOFT AREAS.

DISPOSAL: CLEARED, GRUBBED, STRIPPED OR OTHER WASTE MATERIAL SHALL BE REMOVED FROM SITE AND DISPOSED OF IN A PROPERLY PERMITTED FACILITY. FILL AND COMPACTION SHOULD COMPLY WITH GEOTECHNICAL RECOMMENDATIONS

THE CONTRACTOR SHALL NOTE THAT THE GRADING PLAN MAY NOT REPRESENT A BALANCED EARTHWORK CONDITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CUT AND FILL QUANTITIES AND COMPLETE INSTALLATION TO SPECIFIED GRADES. THE CONTRACTOR SHALL FURNISH SUITABLE BORROW MATERIAL FROM AN OFF-SITE PROPERLY PERMITTED FACILITY AS REQUIRED

INDICATED ON PLAN, THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION. ANY CONDITION DISCOVERED OR EXISTING THAT WOULD NECESSITATE A MODIFICATION OF THESE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION. 10. NO CONSTRUCTION IS TO BEGIN BEFORE LOCATION OF EXISTING UTILITIES HAS BEEN DETERMINED. CALL "NC ONE-CALL" AT LEAST 48 HOURS BEFORE COMMENCING

INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXACT ELEVATIONS AND LOCATIONS OF ALL EXISTING UTILITIES AT ALL CROSSINGS PRIOR TO COMMENCING TRENCH EXCAVATION. IF ACTUAL CLEARANCES ARE LESS THAN

11. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES DURING CONSTRUCTION. BEFORE COMMENCING ANY EXCAVATIONS IN OR ALONG ROADWAYS OR RIGHT-OF-WAYS, PUBLIC AREAS OR IN PRIVATE EASEMENTS, THE CONTRACTOR SHALL NOTIFY ALL APPROPRIATE PERSONNEL OF THEIR INTENT TO

EXCAVATE, IN WRITING, NOT LESS THAN 10 DAYS PRIOR TO EXCAVATING 12. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE DISCONNECTION/ RECONNECTION AND/OR THE RELOCATION OF ALL EXISTING UTILITIES WITH APPROPRIATE

13. CONTRACTOR SHALL ADJUST ALL MANHOLES, VALVE & CURB BOXES TO FINAL GRADE UPON COMPLETION OF ALL CONSTRUCTION. ANY BOXES DAMAGED OR OTHERWISE DISTURBED

14. EXISTING SURVEYING PERFORMED BY PATRICK C. BRISTOW, NC PLS# L-4148 15. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AT THE SITE. FURTHERMORE THE CONTRACTOR SHALL REPORT ALL DISCREPANCIES OR QUESTIONS TO THE ENGINEER

16. THE CONTRACTOR SHALL PROVIDE ANY AND ALL LAYOUT REQUIRED TO CONSTRUCT HIS WORK UNLESS OTHERWISE DIRECTED BY OWNER.

17. ALL SERVICE CONNECTIONS SHALL BE INSTALLED TO MEET ALL LOCAL, STATE, AND CFPUA CODES. METERS, TAPS, MATERIALS, WORKMANSHIP AND ALL FEES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL COMPLY WITH ALL REQUIREMENTS

18. ALL BACKFILL FROM UTILITY INSTALLATION MUST BE COMPACTED OR AMENDED TO PROVIDE TRAFFIC BEARING CAPACITY. GEOTECHNICAL ENGINEER TO BE CONSULTED AT

19. ALL AREAS SHALL BE GRADED FOR POSITIVE DRAINAGE. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO INSTALLATION. ALL AREAS SHALL BE SLOPED TO DRAIN AWAY FROM BUILDINGS AT ALL TIMES.

20. CONCRETE FOR WALKS, CURBS AND DRIVES SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI @ 28 DAYS - AIR ENTRAINED 21. FIELD TESTING SHALL BE DONE BY AN INDEPENDENT TESTING LABORATORY PAID FOR BY THE OWNER. FURTHER TESTING REQUIRED DUE TO A FAILED TEST WILL BE PAID FOR BY

22. ALL SIDEWALKS SHALL BE FREE OF CRACKS, BREAKS, OR ANY OTHER DEFECT PRIOR TO RECEIVING A CERTIFICATE OF OCCUPANCY.

1. ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL, BUT IN NO CASE, LESS THAN ONCE EVERY WEEK AND WITHIN 24 HOURS OF EVERY HALF INCH RAINFALL

2. ALL POINTS OF EGRESS WILL HAVE CONSTRUCTION ENTRANCES THAT WILL BE PERIODICALLY TOP-DRESSED WITH AN ADDITIONAL 2 INCHES OF 2-3 INCH STONE TO MAINTAIN PROPER DEPTH. THEY WILL BE MAINTAINED IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE SITE. IMMEDIATELY REMOVE OBJECTIONABLE MATERIAL

SPILLED, WASHED OR TRACKED ONTO THE CONSTRUCTION ENTRANCE OR ROADWAYS. SEDIMENT WILL BE REMOVED FROM HARDWARE CLOTH AND GRAVEL INLET PROTECTION, ROCK DOUGHNUT INLET PROTECTION, SEDIMENT TRAP BAFFLES, AND ROCK PIPE INLET PROTECTION WHEN THE DESIGNED STORAGE CAPACITY HAS BEEN HALF FILLED WITH SEDIMENT. ROCK WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS AS DESIGNED. DEBRIS WILL BE REMOVED FROM THE ROCK AND HARDWARE CLOTH TO ALLOW PROPER DRAINAGE. SILT SACKS WILL BE EMPTIED ONCE A WEEK AND AFTER EVERY RAIN EVENT. SEDIMENT WILL BE REMOVED FROM AROUND BEAVER DAMS, DANDY SACKS AND SOCKS ONCE A WEEK AND AFTER EVERY RAIN EVENT.

SWALES MUST BE TEMPORARILY STABILIZED WITHIN 21 CALENDAR DAYS OF CEASE OF ANY PHASE OF ACTIVITY ASSOCIATED WITH A SWALE.

SEDIMENT WILL BE REMOVED FROM BEHIND THE SEDIMENT FENCE WHEN IT BECOMES HALF FILLED. THE SEDIMENT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER. STAKES MUST BE STEEL. STAKE SPACING WILL BE 6 FEET MAX. WITH THE USE OF EXTRA STRENGTH FABRIC, WITHOUT WIRE BACKING. STAKE SPACING WILL BE 8 FEET MAX WHEN STANDARD STRENGTH FABRIC AND WIRE BACKING ARE USED. IF ROCK FILTERS ARE DESIGNED AT LOW POINTS IN THE IN THE SEDIMENT FENCE THE ROCK WILL BE REPAIRED OR REPLACED IF IT BECOMES HALF FULL OF SEDIMENT, NO LONGER DRAINS AS DESIGNED OR IS DAMAGED.

ONSTRUCTION OF SITE TO START WITH INSTALLATION OF CONSTRUCTION ENTRANCE AND SILT FENCE ALONG ALL LOCATIONS PER PLANS. UPON INSTALLATION OF SILT FENCE, TREES SHOULD BE REMOVED IN LOCATIONS AS NECESSARY. ALL SLOPED AREAS SHOULD BE SEEDED IN ACCORDANCE TO SPECIFICATIONS. SLOPE STABILIZATION IS WITHIN 21 CALENDAR DAYS OF ANY PHASE OF CONSTRUCTION. ALL OTHER AREAS MUST BE STABILIZED WITH IN 15 WORKING DAYS. CONTRACTOR TO FOLLOW NPDES STABILIZATION REQUIREMENTS PER TABLE ON THIS SHEET AS WELL. MOST STRINGENT REQUIREMENT TO BE MET.

GENERAL CLEARING AND GRADING OF THIS SITE WILL NOT BE DONE UNTIL THE TEMPORARY SILT FENCE & CONSTRUCTION ENTRANCE HAS BEEN INSTALLED.

APPLICATION RATE

100 (lb/acre)

50 (lb/acre)

40 (lb/acre)

120 (lb/acre)

NO CUT SLOPE OR FILL SLOPE SHALL EXCEED A RISE OR FALL OF ONE FOOT FOR EVERY RUN OF 3 FEET (1 VERTICAL TO 3 HORIZONTAL)

NO SEDIMENT WILL BE ALLOWED TO EXIT THE SITE. ALL EROSION SHALL BE CONTROLLED INCLUDING SIDE SLOPES DURING AND AFTER CONSTRUCTION INSTALL PRIMARY EROSION CONTROL MEASURES BEFORE BEGINNING CONSTRUCTION INCLUDING BUT NOT LIMITED TO GRAVELED CONSTRUCTION ENTRANCE, SILT FENCE, TREE PROTECTION FENCE & SEDIMENT BASINS. CONTRACTOR TO BE FAMILIAR WITH USACOE GENERAL PERMIT CONDITIONS FOR ROAD CROSSINGS. SPECIFIC CONSTRUCTION METHODS MAY BE REQUIRED ABOVE AND BEYOND WHAT IS SPECIFIED IN THIS PLAN. INSTALL ALL SECONDARY EROSION CONTROL MEASURES, SUCH AS INLET PROTECTION AS SOON AS POSSIBLE AFTER BEGINNING CONSTRUCTION

ALL EROSION CONTROL MEASURES TO BE INSPECTED AFTER EACH RAIN. SILT FENCE AND INLET PROTECTION TO BE CLEANED WHEN HALF FULL

A 4" LAYER OF TOPSOIL SHALL BE APPLIED TO ALL NEW AREAS TO BE GRASSED. MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PROJECT IS COMPLETE.

SEEDING DATES

Piedmont - Jan. 1-May 1

Coastal Plain - Dec. 1-Apr. 15

Mountains - May 15-Aug. 15

Coastal Plain - Apr. 15-Aug. 15

Mountains - Aug. 15-Dec. 15

SOIL AMENDMENTS:

anchoring tool.

MAINTENANCE:

following erosion or other damage.

Piedmont - May 1-Aug. 15

LATE WINTER & EARLY SPRING:

Mountains - Above 2500 ft: Feb. 15-May 15

Coastal Plain and Piedmont - Aug. 15-Dec. 30

limestone and 750 lb/acre 10-10-10 fertilizer.

Follow recommendations of soil tests or apply 2,000 lb/acre ground agricultural

apply 4,000 lb/acre straw. anchor straw by tacking with asphalt, netting, or a

mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch

Refertilize if growth is not fully adequate. reseed, refertilize and mulch immediately

MORE STRINGENT MEASURES MAY BE REQUIRED TO HALT EROSION IF THOSE ON THIS PLAN PROVE TO BE LESS EFFECTIVE

NORTH CAROLINA TEMPORARY

GRASSING DETAIL

9. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES UPON COMPLETION OF CONSTRUCTION. ALL PERMANENT MEASURES SHALL BE WELL ESTABLISHED PRIOR TO PROJECT COMPLETION.

GROUND STABILIZATION CRITERIA		N CRITERIA	NORTH CAROLINA TE
ITE AREA SCRIPTION	STABILIZATION TIMEFRAME	STABILIZATION TIMEFRAME EXCEPTIONS	GRASSING DET
rimeter dikes, les and slopes	7 Days	None	LATE WINTER & EARLY SPRING:
ligh Quality ater (HQW) Zones	7 Days	None	Rye (grain) Annual Iespedeza (Kobe in Piedmont and Coastal Plain, Korean in Mountains)
opes Steeper than 3:1	7 Days	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed	Omit annual Iespedeza when duration of temporary cover is not to extend beyond June SUMMER:
es 3:1 or flatter	14 Days	7-days for slopes greater than 50 ft. in length	German Millet In the Piedmont and Mountains, a small-stemmed sundangrass may be
ther areas with flatter than 4:1	14 Days	None (except for perimeters & HQW Zones)	substituted at a rate of 50 (lb/acre)
			FALL:

UILDING WASTE HANDLING:
NO PAINT OR LIQUID WASTES IN STREAM OR STORM DRAINS
DEDICATED AREAS FOR DEMOLITION, CONSTRUCTION AND OTHER WASTES MU
RE LOCATED 50' FROM STORM DRAINS AND STREAMS UNLESS NO REASONABLE

ALTERNATIVES ARE AVAILABLE - EARTHEN MATERIAL STOCKPILES MUST BE LOCATED 50' FROM STORM DRAINS AND STREAMS UNLESS NO REASONABLE ALTERNATIVES ARE AVAILABLE.

WATERS, WETLANDS, OR BUFFERS, INSPECTIONS:

- SAME WEEKLY REQUIREMENTS - SAME RAIN GAUGE & INSPECTIONS AFTER 0.50" RAIN EVENT. - INSPECTIONS ARE ONLY REQUIRED DURING "NORMAL BUSINESS HOURS"

- RECORDS MUST BE KEPT FOR 3 YEARS AND AVAILABLE UPON REQUEST. - ELECTRONICALLY AVAILABLE RECORDS MAY BE SUBSTITUTED UNDER CERTAIN

DRAINAGE AREA IS LESS THAN 1 ACRE.

Approved Construction Plan

NORTH CAROLINA PERMANENT

GRASSING DETAIL

Apply lime and fertilizer according to soil tests, or apply 3.000-5,000 lb/acre

ground agricultural limestone (use the lower rate on sandy soils) and 1,000 lb/acre

Fertilize according to soil tests or apply 40 lb/acre nitrogen in January or february,

fertilizer. Avoid fertilizer applications during warm weather, as this increases stand

losses to disease. Reseed, fertilize, and mulch damaged areas immediately. mow to

Apply lime and fertilizer according to soil tests, or apply 3,000 lb/acre ground

Refertilize the following april with 50 lb/acre nitrogen. Repeat as growth requires.

may be mowed only once a year. Where a neat appearance is desired, omit sericea

apply 4,000 lb/acre straw. anchor straw by tacking with asphalt, netting, or a

mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch

agriculture limestone and 500 lb/acre 10-10-10 fertilizer.

40 lb in September and 40 lb in November, from a 12-4-8, 16-4-8, or similar turf

APPLICATION RATE

200 (lb/acre)

25 (lb/acre)

50 (lb/acre)

30 (lb/acre)

10 (lb/acre)

10 (lb/acre)

50 (lb/acre)

SEEDING MIXTURE SPECIES

FALL & WINTER: Tall Fescue (blend of two or

Rye (grain)

three improved varieties)

SPRING & SUMMER

Common Bermudagrass

SEEDING DATES

FALL & WINTER

Pensacola Bahiagrass

Sericea Lespedeza

German Millet

January - April August - December

10-10-10 fertilizer.

MAINTENANCE:

April 1 - July 15

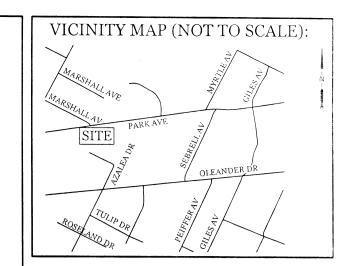
a height of 2.5-3.5 inches as needed.

SPRING & SUMMER:

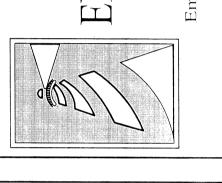
SOIL AMENDMENTS:

and mow as often as needed.

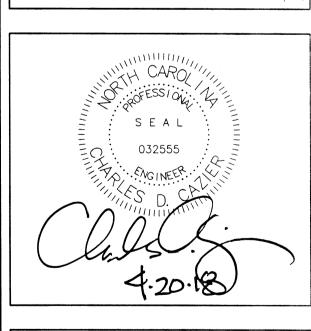
Tall Fescue



REVISIONS



DET

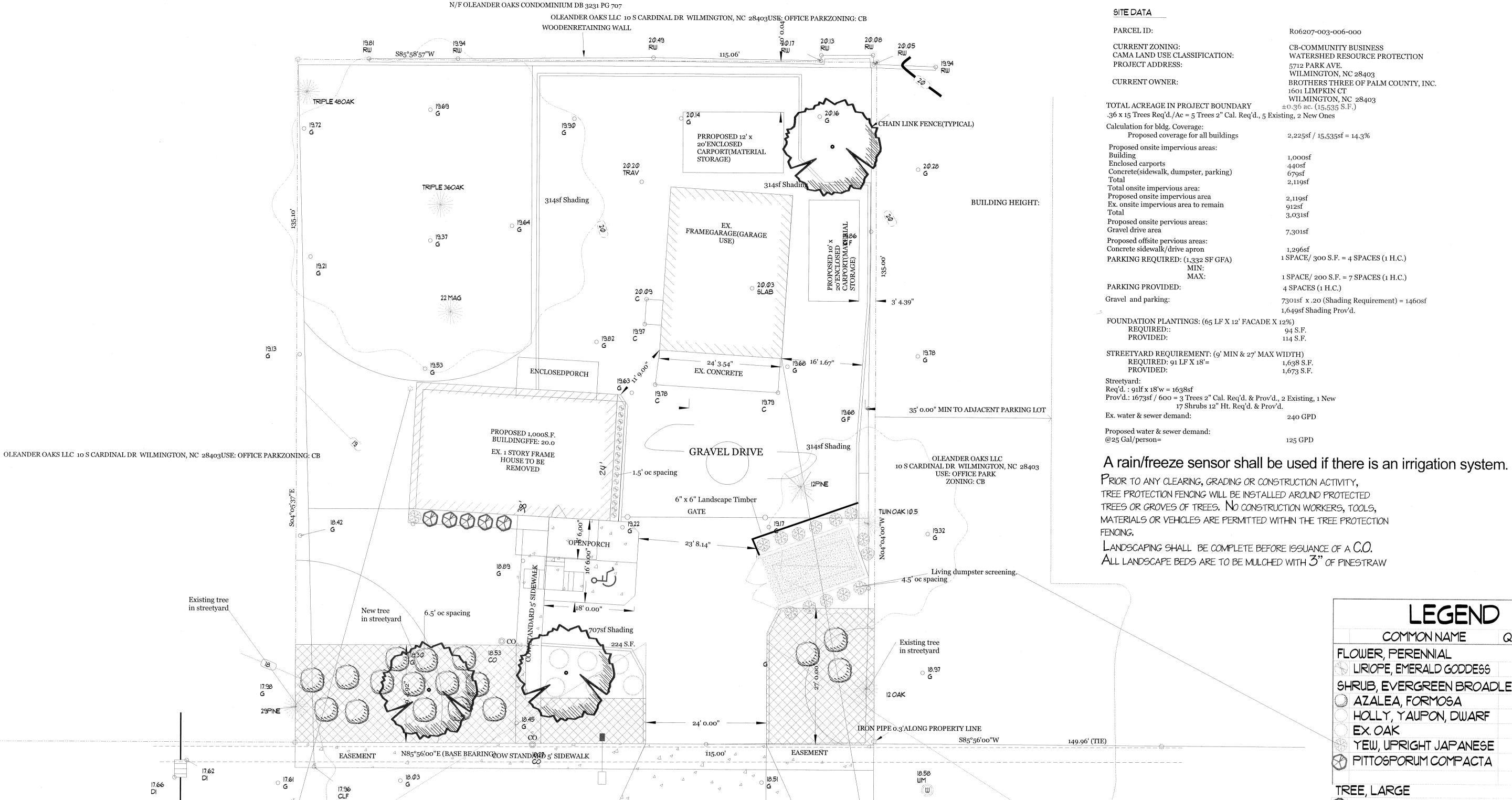


CLIENT INFORMATION:

Brothers Three Of Palm County Inc. Steve Campbell 1601 Limpkin Ct. Wilmington, NC 28403 910-471-2613 scampbell@bluecoastrealestate.com

DRAWN: JAE SHEET SIZE: CDC DATE: CHECKED: 4/20/2018 APPROVED: CDC | SCALE: NTS PROJECT NUMBER: 2018-008

DRAWING NUMBER:



13' 0.06" (TYP.) |8.92

8' 4.34"

THOMPSON DANIEL K MARIA

S 207 CYPRESS AVE WRIGHTSVILLE BEACH, NC 28480 **USE: TOWNHOMES**

ZONING: R-15

18.83

shall be maintained free

20 x 70 COW sight triangle

The areas within the triangular sight distance

of all obstructions between 30" and 10'.

DISTRIBUTION LINE

PARK AVENUE

74' PUBLIC R/W

APPROX. EDGE OF PAVEMENT

APPROX. LOCATION OF EX. 8" WATER |8.72

APPROX. LOCATION OF EX. 8" SS

EDGE OF PAVEMENT

SYKES WILLIAM M CAROLYN J

2315 NC 96N HWY SELMA, NC 27576

USE: TOWN HOMES

ZONING: R-15

TRANSMISSION LINE

20 x 70 COW sight triangle

13 VO

SITE BENCHMARKTOP OF FIRE HYDRANTEL, 22.02 (NAVD 1988)

LEGEND QTY SIZE LIRIOPE, EMERALD GODDESS 17 | GAL. SHRUB, EVERGREEN BROADLEAF 17 3 GAL. HOLLY, YAUPON, DWARF 6 3 GAL. YEW, UPRIGHT JAPANESE 14 3 GAL. PITTOSPORUM COMPACTA 5 3 **GA**L. TREE, LARGE ALLEE ELM 3 2" CAL.

FREER LANDSCAPE, INC. Landscape Installation Professionals

6.0.18

Public Services • Engineering Division APPROVED PLAN - NO PERMIT REQUIRED Signed: Total Bittle for RAC

TRANSMISSION LINE

7	Approved Construction Plan
	<u>Name</u>
	Planning EXF
	Public Utilities
	Traffic W 8000 6-7-18
	Fire C. M. 6