SIDEWALK ACCESS RAMPS GENERAL NOTES

1. NORTH CAROLINA GENERAL STATUTE 136-44.14 REQUIRES THAT ALL STREET CURBS BEING CONSTRUCTED OR RECONSTRUCTED FOR MAINTENANCE PROCEDURES, TRAFFIC OPERATIONS, REPAIRS, CORRECTIONS OF UTILITIES OR ALTERED FOR ANY REASON AFTER SEPTEMBER 1, 1973 SHALL PROVIDE SIDEWALK ACCESS RAMPS FOR THE PHYSICALLY HANDICAPPED AT ALL INTERSECTIONS WHERE BOTH CURB AND GUTTER AND SIDEWALKS ARE PROVIDED AND AT OTHER POINTS OF PEDESTRIANS FLOW. IN ADDITION, SECTION 228 OF THE 1973 FEDERAL AID HIGHWAY SAFETY ACT REQUIRES PROVISION OF DEPRESSED CURBS ON ANY CURB CONSTRUCTED AFTER JULY 1, 1976 WHETHER A SIDEWALK IS PROPOSED INITIALLY OR IS PLANNED FOR A FUTURE DATE. THE AMERICANS WITH DISABILITIES ACT (ADA) OF 1990 EXTENDS TO INDIVIDUALS WITH DISABILITIES COMPREHENSIVE CIVIL RIGHTS PROTECTION SIMILAR TO THOSE PROVIDED TO PERSONS ON THE BASIS OF RACE, SEX, NATIONAL ORIGIN AND RELIGION UNDER THE THE CIVIL RIGHTS ACT OF 1964. THE ADOPTED SIDEWALK ACCESS RAMPS HAVE BEEN DESIGNED TO COMPLY WITH TITLE III OF THE ADA, THAT BECAME EFFECTIVE ON JANUARY 26, 1992 AND AS AMENDED. THE ADA REQUIREMENTS FOR DETECTABLE WARNINGS WERE SUSPENDED EFFECTIVE MAY 12, 1994.

2. SIDEWALK ACCESS RAMPS SHALL BE PROVIDED AT LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. SIDEWALK ACCESS RAMPS SHALL BE LOCATED AS INDICATED IN THE DETAIL HOWEVER, THE LOCATION MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER WHERE EXISTING LIGHT POLES, FIRE HYDRANTS, DROP INLETS, ETC. AFFECT PLACEMENT. AT ALL LOCATIONS, NOT LESS THAN 2 FEET OF FULL HEIGHT CURB SHALL BE PLACED BETWEEN DOUBLE RAMPS. DOUBLE WHEELCHAIR RAMPS ARE TO BE INSTALLED AT ALL PUBLIC STREET INTERSECTIONS WHERE SIDEWALK IS REQUIRED. WHEN SIDEWALK IS NOT REQUIRED, CURB IS TO BE DEPRESSED AT ALL RAMP LOCATIONS.

3. THE WALKING SURFACE SHALL BE SLIP RESISTANT. COLORS FOR THE RAMP SHALL BE DARK CHARCOAL GRAY FOR CONTRAST WITH LIGHT PATHWAY COLORS AND LIGHT CONCRETE GRAY FOR CONTRAST WITH DARK PATHWAY COLORS AND SHALL BE AN INTEGRAL PART OF THE CONSTRUCTION MATERIAL. IRON OXIDE PIGMENT SHALL BE USED AT THE RATE OF 25 LBS. OF PIGMENT PER CU. YARD OF CONCRETE.

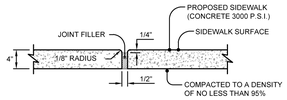
4. NO SLOPE ON THE SIDEWALK ACCESS RAMP SHALL EXCEED 1"/1' (12:1) IN RELATIONSHIP TO THE GRADE OF THE STREET.

5. IN NO CASE SHALL THE WIDTH OF THE SIDEWALK ACCESS RAMP BE LESS THAN 40" (3'-4") HOWEVER, RAMP MAY EXCEED 40".

6. USE CLASS A (3000 PSI) CONCRETE WITH A SIDEWALK FINISH IN ORDER TO OBTAIN A ROUGH NONSKID SURFACE.

7. A 1/2" EXPANSION JOINT WILL BE REQUIRED WHERE THE CONCRETE SIDEWALK ACCESS RAMP JOINS THE CURB AND AS SHOWN ON THE STANDARD DRAWING.

8. SINGLE OR DIAGONAL RAMPS ARE NOT PERMISSIBLE FOR NEW CONSTRUCTION.



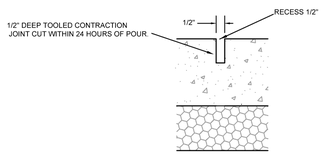
TRANSVERSE EXPANSION JOINT

NOTES:

1. TRANSVERSE EXPANSION JOINTS TO BE A MAXIMUM OF 25' APART.
2. ALL CONCRETE TO BE FINISHED WITH CURING COMPOUND.

STANDARD CONCRETE SIDEWALK

NTS



CONTRACTION JOINT

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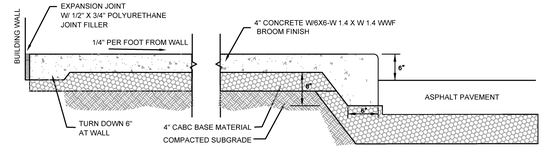
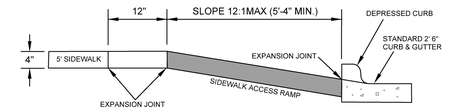


STANDARD SIDEWALK TURNDOWN DETAIL

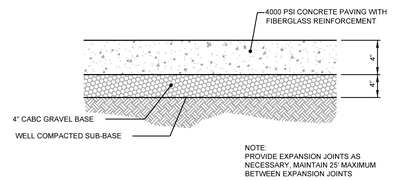
NTS



FOR RAMPS AT ASPHALT TO ASPHALT STREET TYPE DRIVEWAYS OR PRIVATE STREET TIE IN.

SECTION "B-B"

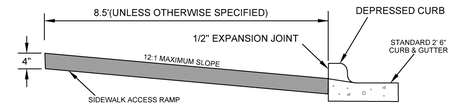
NTS



NOTE:
PROVIDE EXPANSION JOINTS AS NECESSARY, MAINTAIN 25' MAXIMUM BETWEEN EXPANSION JOINTS

CONCRETE SLAB FOR SOLID WASTE ROLLOUT CONTAINERS

NTS



FOR ALL PUBLIC STREET TIE-INS

SECTION "A-A"

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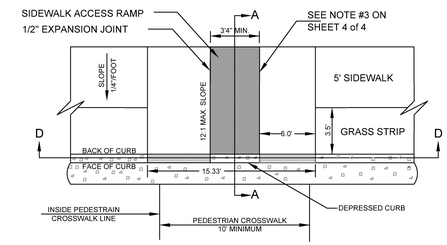

PLAV VIEW

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SIDEWALK ACCESS RAMP

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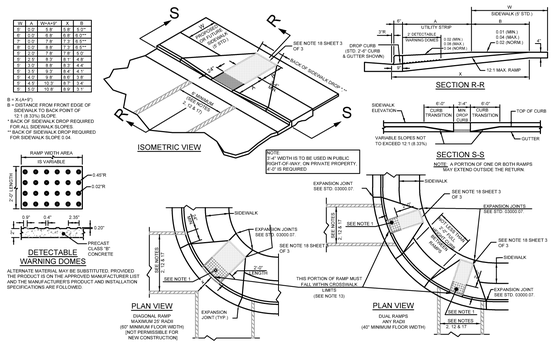

STANDARD WHEELCHAIR RAMP

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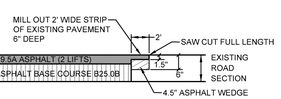

LAP JOINT DETAIL (AT ENTRANCE)

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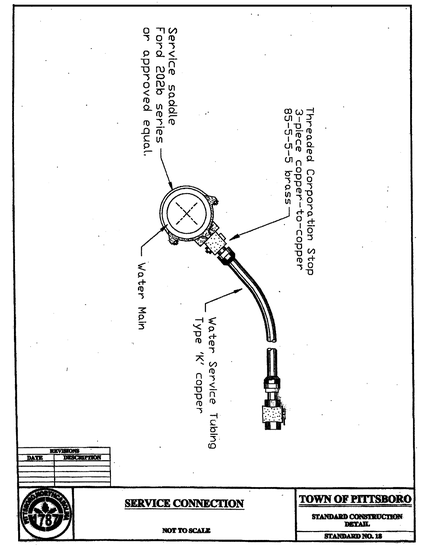

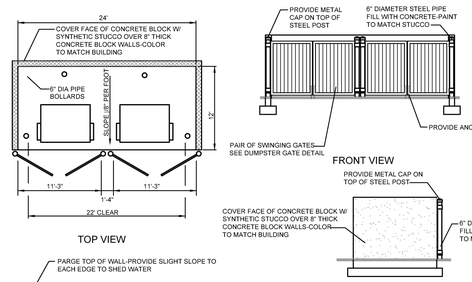

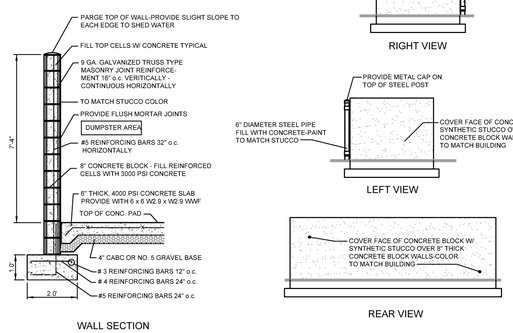

DOUBLE CONTAINER DUMPSTER ENCLOSURE

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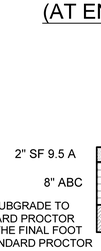

COMPACT SUBGRADE TO 95% STANDARD PROCTOR EXCEPT IN THE FINAL FOOT TO 98% STANDARD PROCTOR

TYPICAL PARKING STALL PAVEMENT SECTION

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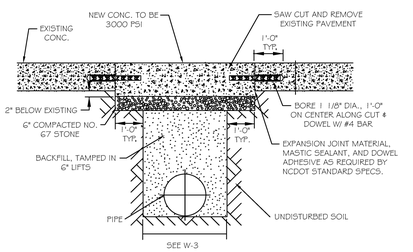
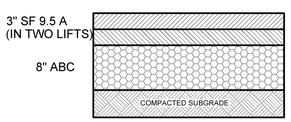


NOTES:
1. SEE CITY OF RALEIGH STANDARDS FOR TRENCHES AND PIPE BEDDING W-3 FOR ADDITIONAL DETAILS
2. PAVEMENT CUTS WITHIN NCDOT ROW SHALL CONFORM TO THE APPROVED ON SITE ENCROACHMENT PERMIT.
3. THE PAVEMENT CUT SHALL BE DEFINED BY A STRAIGHT EDGE AND CUT WITH AN APPROVED SAW CUT MACHINE.
4. THE TRENCH SUBGRADE MATERIAL SHALL BE BACKFILLED WITH SUITABLE MATERIAL AND COMPACTED TO A DENSITY OF AT LEAST 95% OF THAT OBTAINED BY COMPACTING A SAMPLE OF THE MATERIAL IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY NCDOT. 5. THE FINAL 6" OF FILL SHALL CONSIST OF ABC MATERIAL COMPACTED TO A DENSITY EQUAL TO 100% OF THAT OBTAINED BY COMPACTING A SAMPLE OF THE MATERIAL IN ACCORDANCE WITH AASHTO T-80 AS MODIFIED BY NCDOT .

STANDARD CONCRETE PAVEMENT PATCH DETAIL

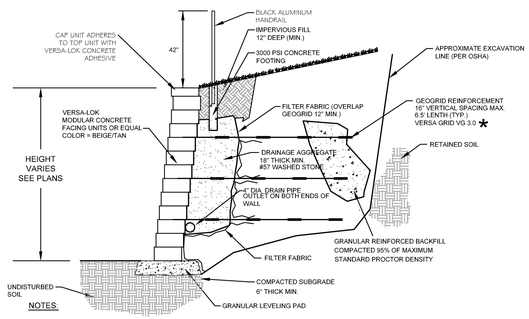
NTS



COMPACT SUBGRADE TO 95% STANDARD PROCTOR EXCEPT IN THE FINAL FOOT TO 98% STANDARD PROCTOR

TYPICAL DRIVEWAY/ROAD PAVEMENT SECTION

NTS



NOTES:

1. FACTOR OF SAFETY FOR SLIDING: 1.5
2. FACTOR OF SAFETY FOR OVERTURNING: 2.0
3. FOLLOW APPLICABLE PROVISIONS OF SPECIFICATIONS FOR THE PROPER INSTALLATION OF VERSA-LOK RETAINING WALL SYSTEM AND GEOGRID.
4. ALLOWABLE SOIL BEARING PRESSURE: 3000 PSF
5. ALL FILL OR BACKFILL SHALL BE FREE FROM ROOTS, TRASH, WOOD SCRAPS AND OTHER EXTRANEOUS MATERIAL. PLACE FILL IN LIFTS OF NO MORE THAN 8 INCHES AND COMPACT EACH LIFT TO 95% STANDARD PROCTOR DENSITY AT OPTIMUM MOISTURE CONTENT.
6. PROVIDE BRACING AGAINST WALL AS REQUIRED TO PREVENT DAMAGE DURING COMPACTION OF FILL. ONLY HAND-OPERATED COMPACTION EQUIPMENT TO BE USED WITHIN 3 FEET OF WALL.
7. MINIMUM 18" DRAINAGE FILL BEHIND WALL.
8. PROVIDE LATERAL DRAINAGE.
9. WEIGHT OF SOIL = 120 PCF.
10. PROVIDE 42" HIGH HAND RAILING ALONG THE TOP OF WALLS WITH A DIFFERENCE IN ELEVATION OF 36" AND GREATER. RAILING AND CONNECTIONS SHALL BE ENGINEERED AND FABRICATED TO MEET THE NC BUILDING CODE REQUIREMENTS.
11. CONTRACTOR TO PROVIDE SHOP DRAWING FOR RAILING AND FOOTING.
12. WALL DESIGN TO BE CERTIFIED BY GEOTECHNICAL ENGINEER PER EXISTING SOIL CONDITIONS PRIOR TO CONSTRUCTION. *

TYPICAL SECTION-SEGMENTAL BLOCK WALL

N.T.S.

STOP!
BEFORE YOU DIG CALL
THE NC ONE CALL CENTER
1-800-632-4949
IT'S THE LAW!

FINAL DESIGN
NOT RELEASED
FOR CONSTRUCTION

NO	REVISIONS	DATE
2	REVISED PER TOWN COMMENTS	7/22/16
1	REVISED PER TOWN COMMENTS	5/23/16

CE GROUP
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7/22/16
SEAL 18894
NORTH CAROLINA PROFESSIONAL ENGINEER
MICHAEL PAUL ANDRUSKO

SITE DEVELOPMENT PLANS
FOR
LOT 9 US 64 EAST BUSINESS PARK
SITE DETAILS
CHATHAM COUNTY, NC

Date:	APRIL, 2016
Scale:	-
Drawn:	CPM
Checked:	MPA
Project No.	127-198
Computer Dwg. Name	127-198_Sht-09-10 Site Details

Sheet No: 9 Of - -