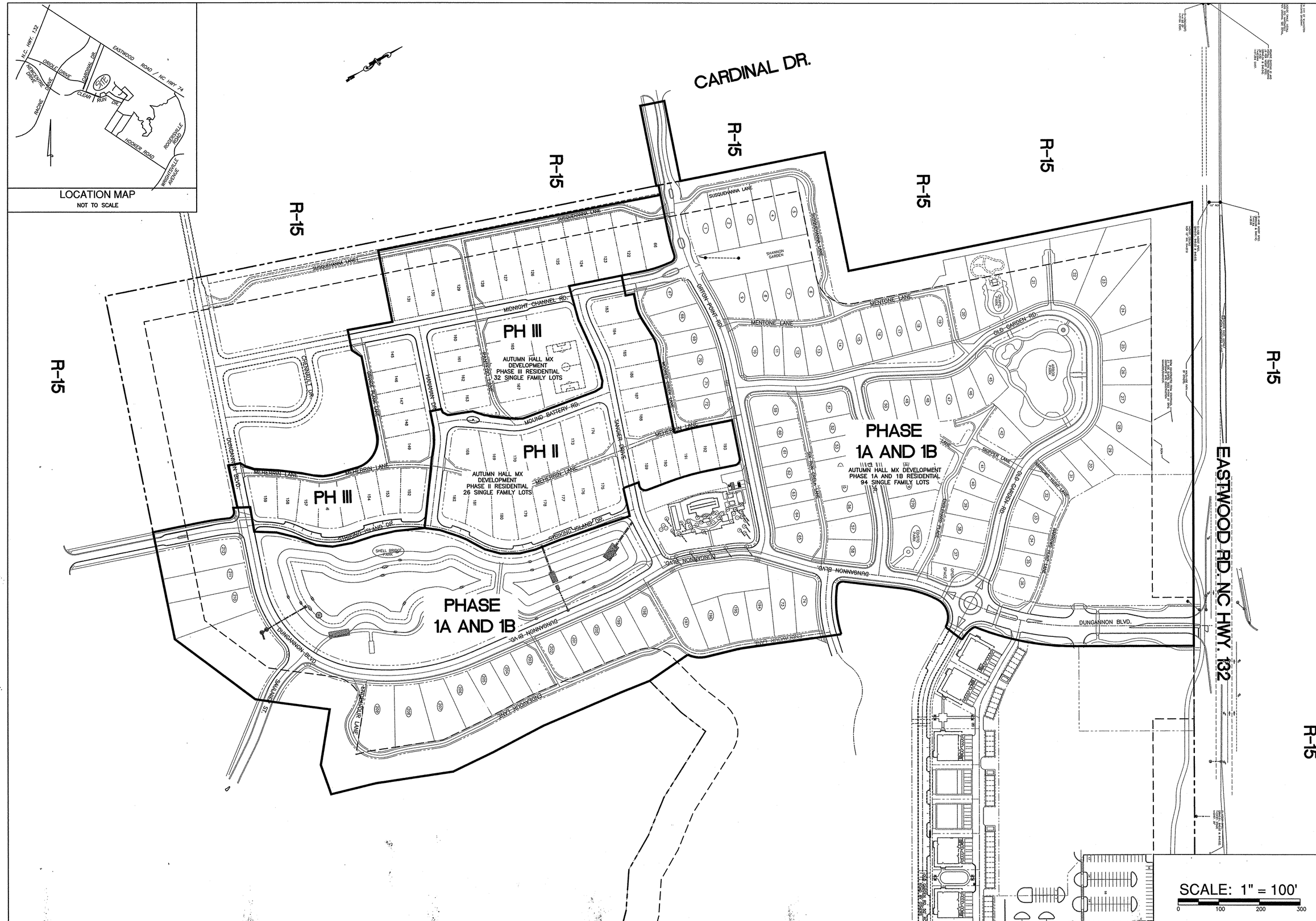

OVERALL SITE PLAN

AUTUMN HALL PHASE III RESIDENTIAL

WILMINGTON, NORTH CAROLINA 28403

OWNER:
AUTUMN HALL, INC.
1201 EASTWOOD ROAD
WILMINGTON, N.C. 28403
(910) 799-8755

NORRIS & TUNSTALL
CONSULTING ENGINEERS, INC.
902 MARKET STREET
WILMINGTON, NC. 28401
PHONE (910) 343-9653
FAX (910) 343-9604
licence #C-3641

14084

DES.	JST
CKD.	JPN
DRWN.	NKS
DATE	8/5/15

NORTH CAROLINA PROFESSIONAL SEAL 19651 ENGINEER JOHN S. TUNSTALL

C0
PHASE III

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REVISIONS

SYMBOL	DATE	DESCRIPTION	BY
R1	8.5.15	REV. SUSQUEHANNA LANE	NKS

LOCATION MAP
NOT TO SCALE

SCALE: 1" = 40'
0 40 80 120

GRADING, STORMWATER AND EROSION CONTROL PLAN
AUTUMN HALL PHASE III RESIDENTIAL

WILMINGTON, NORTH CAROLINA 28403

OWNER:
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CKD.	JPN
DRWN.	NKS
DATE	1/14/15

NORTH CAROLINA PROFESSIONAL SEAL 19651 ENGINEER JOHN S. TUNSTALL

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REVISIONS

SYMBOL	DATE	DESCRIPTION	BY
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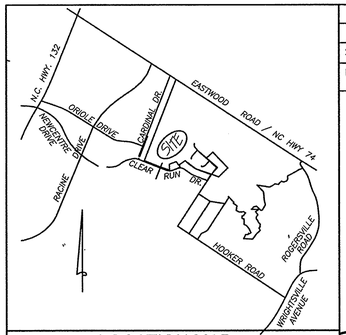

LOCATION MAP
NOT TO SCALE

SCALE: 1" = 40'
0 40 80 120

UTILITY PLAN

AUTUMN HALL PHASE III RESIDENTIAL

WILMINGTON, NORTH CAROLINA 28403

OWNER:
AUTUMN HALL, INC.
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DES.	JST
CKD.	JPN
DRWN.	NKS
DATE	7/15/15

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 19851 JOHN S. TUNSTALL

C2
PHASE III

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REVISIONS

SYMBOL	DATE	DESCRIPTION	BY
R1	8.5.15	REV. SUSQUEHANNA LANE	NKS

LOCATION MAP
NOT TO SCALE

LAYOUT PLAN

AUTUMN HALL PHASE III RESIDENTIAL

WILMINGTON, NORTH CAROLINA 28403

OWNER:
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WILMINGTON, N.C. 28403
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DES.	JST
CKD.	JPN
DRWN.	NKS
DATE	1/14/15

NORTH CAROLINA PROFESSIONAL SEAL 19651 ENGINEER JOHN S. TUNSTALL

C3
PHASE III

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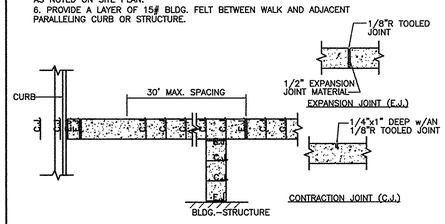
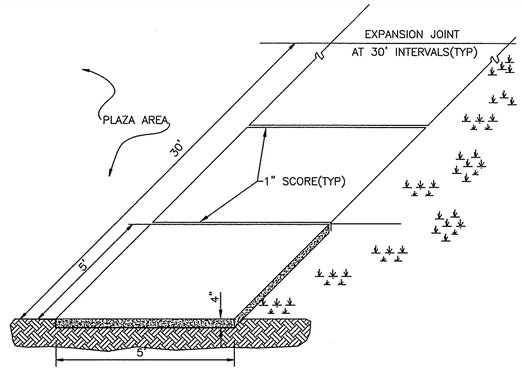
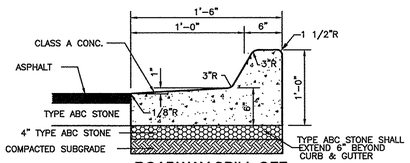
NOTES:
1. SIDEWALK THICKNESS SHALL BE 4" UNLESS NOTED OTHERWISE.
2. CONTRACTION JOINTS (C.J.) SPACE SAME AS SIDEWALK WIDTH.
3. THICKEN SIDEWALK TO 6" AT DRIVEWAYS.
4. THICKEN SIDEWALK TO 6" IN LAST 3' WHERE IT ABUTS PAVEMENT WITH NO CURB.
5. 1/2" EXPANSION JOINT (E.J.) AND SNAP CAP EXPANSION JOINT COVERS ARE REQUIRED AT 50' MAX. AT SIDEWALK JUNCTIONS, AT STRUCTURES, AND AS NOTED ON SITE PLAN.
6. PROVIDE A LAYER OF 15# BLDG. FELT BETWEEN WALK AND ADJACENT PARALLELING CURB OR STRUCTURE.



SIDEWALK JOINT DETAILS
NTS

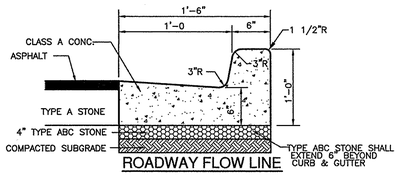


STANDARD SIDEWALK DETAIL
SD 8-15
NOT TO SCALE



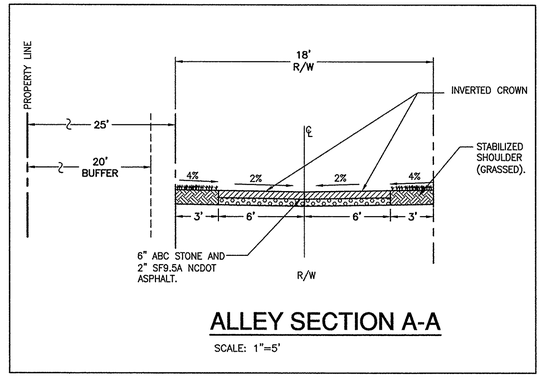
ROADWAY SPILL OFF CURB SECTION
NTS

NOTE: CURB TYPE DEPENDS ON GRADES SHOWN ON GRADING PLAN. GRADES INDICATING FALL AWAY FROM CURB SHALL BE SPILL OFF TYPE CURB. GRADES INDICATING CURB ACCEPTING FLOW SHALL BE FLOW LINE TYPE.

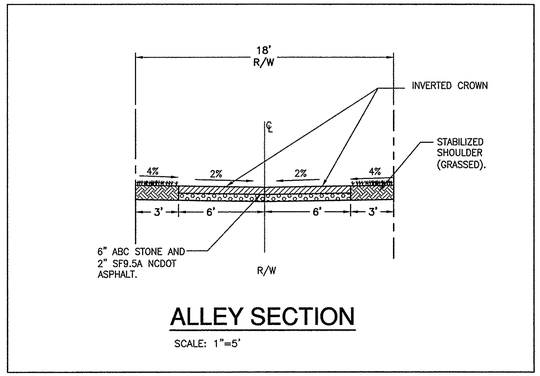


ROADWAY FLOW LINE CURB SECTION
NTS

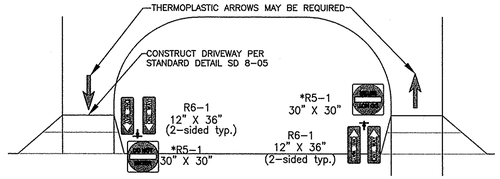
NOTE: CURB TYPE DEPENDS ON GRADES SHOWN ON GRADING PLAN. GRADES INDICATING FALL AWAY FROM CURB SHALL BE SPILL OFF TYPE CURB. GRADES INDICATING CURB ACCEPTING FLOW SHALL BE FLOW LINE TYPE.



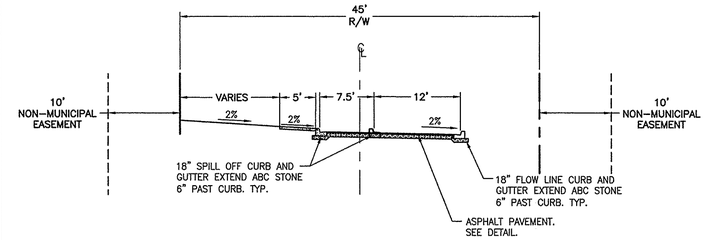
ALLEY SECTION A-A
SCALE: 1"=5'



ALLEY SECTION
SCALE: 1"=5'

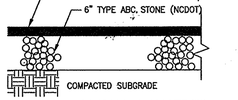


*SEE ENLARGEMENT BELOW RIGHT
STANDARD ONE-WAY DRIVEWAY PAIR (no curb on street)



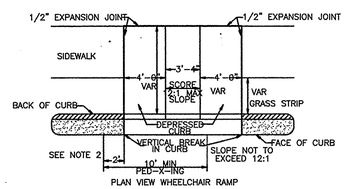
STRIKING ISLAND DR. STA. 4+90 TO STA. 14+10

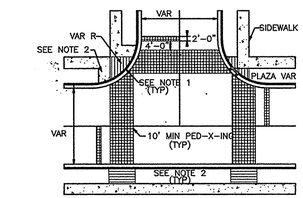
ONE WAY RESIDENTIAL COLLECTOR STREET
SECTION WITH ON STREET PARKING
NTS



NOTE: PAVEMENT SECTION MAY VARY DEPENDING UPON FIELD CONDITIONS. CONTRACTOR SHALL COORDINATE w/OWNER & GEOTECHNICAL ENGINEER TO DETERMINE ACTUAL PAVEMENT SECTION.

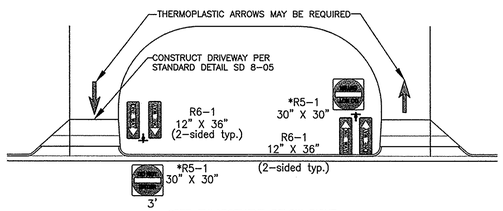
PAVEMENT SECTION
N.T.S.





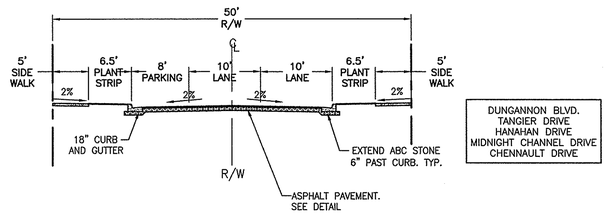
TYPICAL LOCATION OF WHEELCHAIR RAMPS, PEDESTRIAN CROSS WALKS & STOP BARS FOR TEE INTERSECTION

GUIDELINES FOR WHEELCHAIR RAMPS & DEPRESSED CURBS
CITY OF WILMINGTON SD 8-11

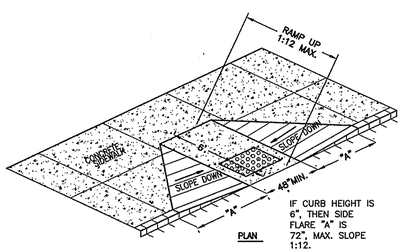


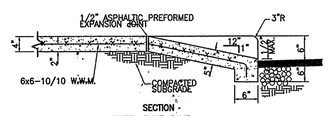
*SEE ENLARGEMENT BELOW RIGHT
STANDARD ONE-WAY DRIVEWAY PAIR (curb on street)

STANDARD ONE-WAY DRIVEWAY
SD 8-21



STREET SECTION RESIDENTIAL STREET
SCALE: 1"=10'





SECTION -
WHEEL CHAIR RAMP

NOTE:

1. RAMP SHALL HAVE A DETECTABLE WARNING COMPLYING WITH ADA GUIDELINES:

2. THE DETECTABLE WARNINGS AT CURB RAMPS SHALL BE 24 INCHES MINIMUM IN THE DIRECTION OF TRAVEL AND EXTEN THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE.

3. MARKED CROSSINGS THAT ARE RAISED TO THE SAME LEVEL AS THE ADJOINING SIDEWALK SHALL BE PRECEDED BY A 24 INCH DEEP DETECTABLE WARNING EXTENDING THE FULL WIDTH OF THE MARKED CROSSING.

4. DETECTABLE WARNINGS SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 IN (23 MM), A HEIGHT OF NOMINAL 0.2 IN (5 MM) AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 IN (60 MM) AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT. THE MATERIAL USED TO PROVIDE CONTRAST SHOULD CONTRAST BY AT LEAST 70% - REFER TO ADA GUIDELINES FOR DEFINITION OF "CONTRAST".

5. THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE. DETECTABLE WARNINGS USED ON INTERIOR SURFACES SHALL DIFFER FROM ADJOINING WALKING SURFACES IN RESILIENCY OR SOUND-ON-CANE CONTACT.

TYPICAL SIDEWALK AND
WHEEL CHAIR RAMP DETAIL
NTS

GENERAL NOTES

I. LOCATION OF WHEELCHAIR RAMPS:

1. IN ACCORDANCE WITH THE RATIFIED HOUSE BILL 1296, ALL STREET CURBS IN NORTH CAROLINA BEING CONSTRUCTED OR RECONSTRUCTED FOR MAINTENANCE PROCEDURES, TRAFFIC OPERATIONS, REPAIRS, CORRECTION OF UTILITIES OR ALTERED FOR ANY REASON AFTER SEPTEMBER 1, 1973 SHALL PROVIDE WHEELCHAIR RAMPS FOR THE PHYSICALLY HANDICAPPED AT ALL INTERSECTIONS WHERE BOTH CURB AND GUTTERS AND SIDEWALKS ARE PROVIDED AND AT OTHER MAJOR POINTS OF PEDESTRIAN FLOW.
2. WHEELCHAIR RAMPS SHOULD BE LOCATED AS INDICATED IN DETAIL DRAWINGS, HOWEVER EXISTING LIGHT POLES, FIRE HYDRANTS, DROP INLETS, ETC. MAY AFFECT PLACEMENT.

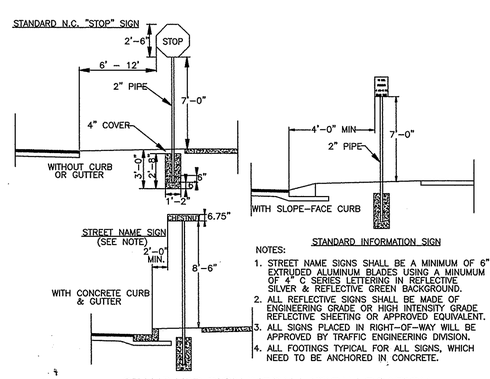
II: CONSTRUCTION NOTES:

1. NO SLOPE SHALL EXCEED 1"=1" (12:1) ON THE RAMP OR SIDEWALK.
2. IN NO CASE SHALL THE WIDTH OF WHEELCHAIR RAMPS BE LESS THAN 40" (3'-4"). WIDTHS MAY EXCEED 40" IF NECESSARY.
3. USE CLASS "A" CONCRETE WITH THE SURFACE HAVING A ROUGH, NON-SKID TYPE FINISH.
4. 1/2" EXPANSION JOINT WILL BE REQUIRED WHERE THE CONCRETE WHEELCHAIR RAMP JOINS ANY RIGID PAVEMENT OR STRUCTURE.
5. CONSTRUCTION METHODS SHALL CONFORM WITH THOSE OF THE GOVERNING BODY WHICH HAS JURISDICTION OF THE PARTICULAR STREET.

III. ADDITIONAL NOTES:

1. THE INSIDE PEDESTRIAN CROSSWALK LINES SHALL BE ESTABLISHED BY BISECTING THE INTERSECTION RADII WHERE MARKED (SEE NOTE 6).
2. THE WHEELCHAIR RAMP SHALL BE LOCATED SO THAT THE BEGINNING OF THE WHEEL CHAIR RAMP WILL BE TWO FEET FROM THE INSIDE PEDESTRIAN CROSSWALK LINE.
3. THE WIDTH OF THE PEDESTRIAN CROSSWALK SHALL BE 10 FEET UNLESS A GREATER WIDTH IS REQUIRED TO ACCOMMODATE THE PEDESTRIAN TRAFFIC.
4. STOP BARS SHALL BE USED WHERE IT IS IMPORTANT TO INDICATE THE POINT BEHIND WHICH VEHICLES ARE REQUIRED TO STOP IN COMPLIANCE WITH A TRAFFIC SIGNAL, STOP SIGN, OR OTHER LEGAL REQUIREMENTS.
5. PARKING SHALL BE ELIMINATED A MINIMUM OF 20 FEET BACK OF PEDESTRIAN CROSSWALK.
6. ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, PUBLISHED BY THE FEDERAL HIGHWAY ADMINISTRATION. THIS IS AVAILABLE FROM THE SUPERINTENDENT OF DOCUMENTS, U.S GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402.

GUIDELINES FOR WHEELCHAIR RAMPS
CITY OF WILMINGTON SD 8-09



STANDARD INFORMATION SIGN

NOTES:
1. STREET NAME SIGNS SHALL BE A MINIMUM OF 6" EXTRUDED ALUMINUM BLADES USING A MINUMUM OF 4" C SERIES LETTERING IN REFLECTIVE SILVER & REFLECTIVE GREEN BACKGROUND.
2. ALL REFLECTIVE SIGNS SHALL BE MADE OF ENGINEERING GRADE OR HIGH INTENSITY GRADE REFLECTIVE SHEETING OR APPROVED EQUIVALENT.
3. ALL SIGNS PLACED IN RIGHT-OF-WAY WILL BE APPROVED BY TRAFFIC ENGINEERING DIVISION.
4. ALL FOOTINGS TYPICAL FOR ALL SIGNS, WHICH NEED TO BE ANCHORED IN CONCRETE.

STANDARD SIGN INSTALLATION LOCATION
SD 15-03
NOT TO SCALE

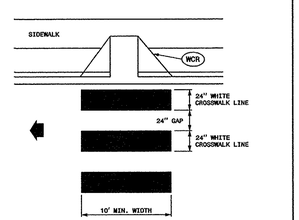
STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

Z-08

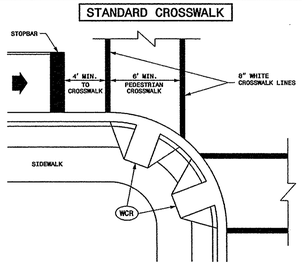
ENGLISH STANDARD DRAWING FOR PAVEMENT MARKINGS PEDESTRIAN CROSSWALKS

SHEET 1 OF 1
1205.07

HI-VISIBILITY CROSSWALK



STANDARD CROSSWALK



GENERAL NOTES

1- THE MINIMUM WIDTH OF STANDARD CROSSWALKS IS 6 FEET. THE MINIMUM WIDTH OF HI-VISIBILITY CROSSWALKS IS 10 FEET.

2- CENTER CROSSWALKS TO THEIR CORRESPONDING WHEELCHAIR RAMPS, BUT DO NOT SET THEM WITHIN THE INTERSECTION AREA ESTABLISHED BY BISECTING THE INTERSECTION RADII.

3- PLACE STOP BARS A MINIMUM OF 4 FEET FROM NEAREST CROSSWALK LINE, BUT NOT WITHIN THE AREA OF A WHEELCHAIR RAMP. PLACE STOP BARS PARALLEL TO CROSSWALK LINES, BUT CAN BE PLACED PERPINDICULAR TO TRAVEL LANES.

4- COORDINATE PLACEMENT OF CROSSWALKS IN ALL CASES WITH THE LOCATION OF WHEELCHAIR RAMPS. (SEE SIGNAL PLANS).

LEGEND
DIRECTION OF TRAFFIC FLOW
WCR WHEELCHAIR RAMP

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

Z-08

ENGLISH STANDARD DRAWING FOR PAVEMENT MARKINGS PEDESTRIAN CROSSWALKS

SHEET 1 OF 1
1205.07

SYMBOL	DATE	DESCRIPTION	BY
R1	8.5.15	ADDED ALLEY SECTION A-A	NKS

REVISIONS

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NOTES AND DETAILS

AUTUMN HALL PHASE III RESIDENTIAL

WILMINGTON, NORTH CAROLINA 28403

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14084

DES.	JST
CKD.	JPN
DRWN.	NKS
DATE	1/14/15

NORTH CAROLINA PROFESSIONAL SEAL 19857 ENGINEER JOHN S. TUNSTALL

C5
PHASE III

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