

Section 2722

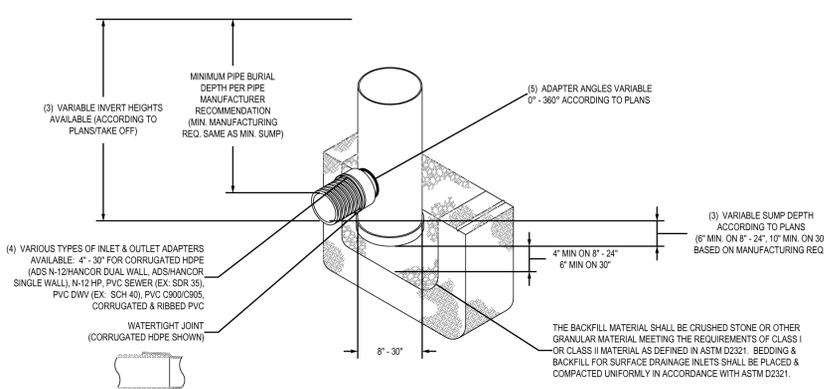
Engineered Surface Drainage Products

GENERAL
PVC surface drainage inlets shall be of the inline drain type as indicated on the contract drawing and referenced within the contract specifications. The ductile iron grates for each of these fittings are to be considered an integral part of the surface drainage inlet and shall be furnished by the same manufacturer. The surface drainage inlets shall be as manufactured by Nyloplast a division of Advanced Drainage Systems, Inc., or prior approved equal.

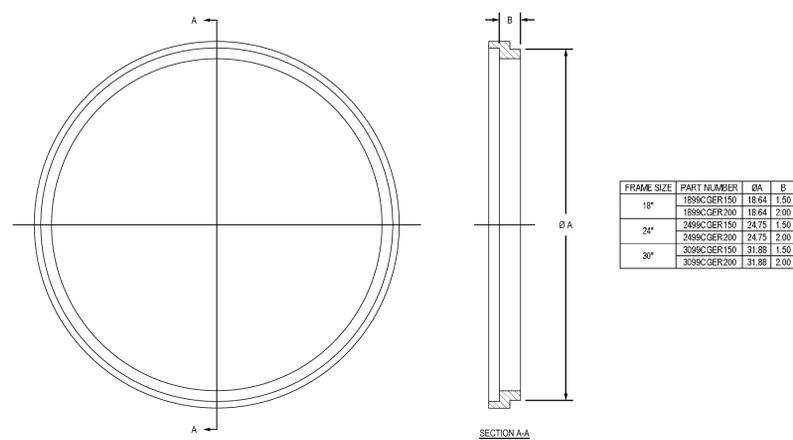
MATERIALS
The inline drain required for this contract shall be manufactured from PVC pipe stock, utilizing a thermo-molding process to reform the pipe stock to the furnished configuration. The drainage pipe connection stubs shall be manufactured from PVC pipe stock and formed to provide a watertight connection with the specified pipe system. This jointing shall conform to ASTM D3212 for joints for drain and sewer plastic pipe using flexible elastomeric seals. The flexible elastomeric seals shall conform to ASTM F477. The pipe bell spigot shall be joined to the inline drain body by use of a swage mechanical joint. The raw material used to manufacture the pipe stock that is used to manufacture the inline drain body and pipe stubs of the surface drainage inlets shall conform to ASTM D1784 cell class 12454.

The grates furnished for all surface drainage inlets shall be ductile iron grates for sizes 8", 10", 12", 15", 18", 24" and 30" shall be made specifically for each fitting so as to provide a round bottom flange that closely matches the diameter of the surface drainage inlet. Grates for inline drains shall be capable of supporting H-20 wheel loading for traffic areas or H-10 loading for pedestrian areas. 12" and 15" square grates will be hinged to the frame using pins. Metal used in the manufacture of the castings shall conform to ASTM A536 grade 70-50-05 for ductile iron. Grates shall be provided painted black.

INSTALLATION
The specified PVC surface drainage inlet shall be installed using conventional flexible pipe backfill materials and procedures. The backfill material shall be crushed stone or other granular material meeting the requirements of class 1 or class 2 material as defined in ASTM D2321. Bedding and backfill for surface drainage inlets shall be well placed and compacted uniformly in accordance with ASTM D2321. The drain basin body will be cut at the time of the final grade. No brick, stone or concrete block will be required to set the grate to the final grade height. For H-20 load rated installations, a concrete ring will be poured under and around the grate and frame. The concrete slab must be designed taking into consideration local soil conditions, traffic loading, and other applicable design factors. For other installation considerations such as migration of fines, ground water, and soft foundations refer to ASTM D2321 guidelines.



- 8" - 30" DOME GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- 8" & 10" DOME GRATES FIT ONTO THE DRAIN BASIN WITH THE USE OF A PVC BODY TOP. SEE DRAWING NO. 7001-110-045.
- DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 8" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065.
- DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOCK DUAL WALL), N-12 HP, & PVC SEWER (EX. SDR 35).
- ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360° TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.
- 8" - 10" DOME GRATES HAVE NO LOAD RATING.



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DRAWN BY: CJA
DATE: 05-10-09
REVISED BY: CCA
DATE: 09-09-13

MATERIAL: DUCTILE IRON
PROJECT NO: NAME
DATE: 09-09-13

3130 VERONA AVE
BURLINGTON, GA 30618
PHN (770) 932-2443
FAX (770) 932-2499
www.nyloplast-us.com

TITLE: 18 IN. - 30 IN. ROUND GRATE/COVER EXTENSION RING DETAIL
DWG NO: 7001-110-323
REV: B

DWG SIZE: A
SCALE: 1:1
SHEET: 1 OF 1

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DRAWN BY: EBC
DATE: 03-25-16
REVISED BY: CCA
DATE: 09-05-13

MATERIAL: DUCTILE IRON
PROJECT NO: NAME
DATE: 09-05-13

3130 VERONA AVE
BURLINGTON, GA 30618
PHN (770) 932-2443
FAX (770) 932-2499
www.nyloplast-us.com

TITLE: DRAIN BASIN WITH DOME GRATE QUICK SPEC INSTALLATION DETAIL
DWG NO: 7001-110-397
REV: C

DWG SIZE: A
SCALE: 1:40
SHEET: 1 OF 1

QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05 PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT. DIMENSIONS ARE FOR REFERENCE ONLY. ACTUAL DIMENSIONS MAY VARY. DIMENSIONS ARE IN INCHES.

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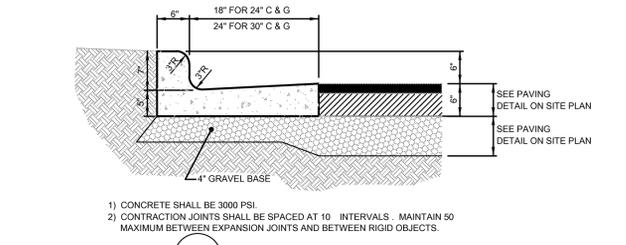
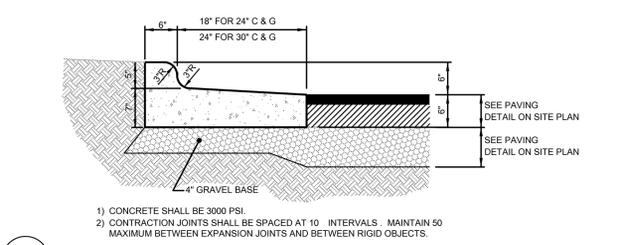
DRAWN BY: JJC
DATE: 8-1-08
REVISED BY: EBC
DATE: 3-15-10

MATERIAL: DUCTILE IRON
PROJECT NO: NAME
DATE: 3-15-10

3130 VERONA AVE
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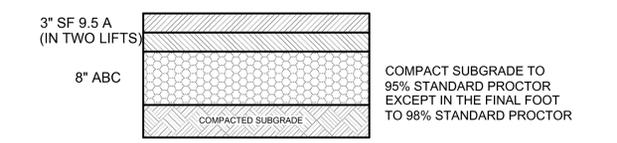
TITLE: 18 IN. - 30 IN. ROUND GRATE/COVER EXTENSION RING DETAIL
DWG NO: 7001-110-323
REV: B

DWG SIZE: A
SCALE: 1:6
SHEET: 1 OF 1

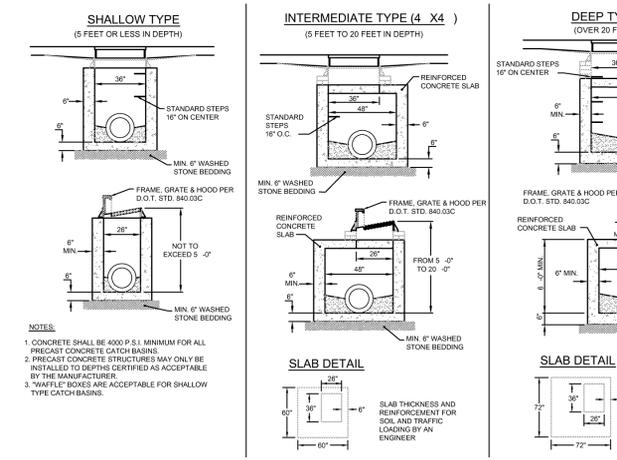


24" & 30" SPILL CURB DETAIL @ ASPHALT PAVING
NTS

(STANDARD) 24" & 30" CURB & GUTTER DETAIL @ ASPHALT PAVING
NTS

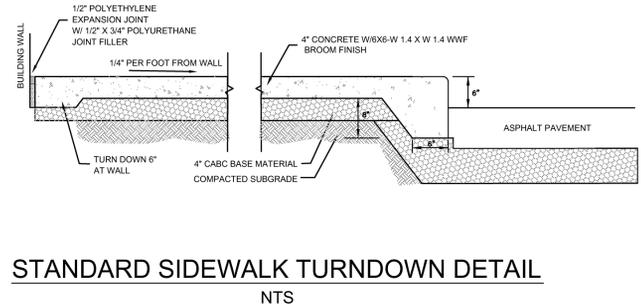


TYPICAL DRIVEWAY/ROAD PAVEMENT
SECTION
NTS

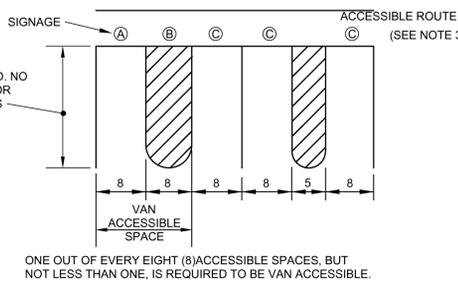


STANDARD PRECAST CONCRETE CATCH-BASIN
NTS

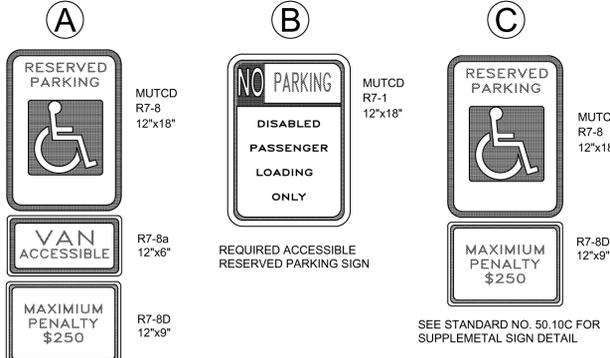
TYPICAL PARKING STALL PAVEMENT
SECTION
NTS



STANDARD SIDEWALK TURNDOWN DETAIL
NTS



PARKING SPACE PAVEMENT MARKINGS



ACCESSIBLE PARKING REQUIREMENTS

TOTAL PARKING SPACES PROVIDED	MINIMUM NUMBER OF ACCESSIBLE SPACES REQUIRED	MINIMUM NUMBER OF ACCESSIBLE SPACES REQUIRED TO BE VAN ACCESSIBLE
1 TO 25	1	1
26 TO 50	2	1
51 TO 75	3	1
76 TO 100	4	1
101 TO 150	5	1
151 TO 200	6	1
201 TO 300	7	1
301 TO 400	8	1
401 TO 500	9	2
501 TO 1000	2% OF TOTAL	1 IN EVERY 8 ACCESSIBLE SPACES
1001 AND OVER	20 PLUS 1 FOR EACH 100 OVER 1000	1 IN EVERY 8 ACCESSIBLE SPACES

SECTION 4.1.2 (5) OF THE AMERICANS WITH DISABILITIES ACT (ADA). SEE 4.1.2.(5) (d) FOR MEDICAL CARE FACILITIES

- NOTES:
- ALL 12"x18" ACCESSIBLE SIGNS (R7-8 & R7-1) SHALL BE MOUNTED AT 7 FEET FROM GRADE TO BOTTOM EDGE OF SIGN FACE (MUTCD). MOUNTING HEIGHT CAN BE REDUCED TO 5 FEET IF PLACED IN AN AREA BETWEEN SIDEWALK AND BUILDING FACE IN WHICH PEDESTRIANS ARE NOT EXPECTED TO USE.
 - REFER TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, (MUTCD) U.S. DEPARTMENT OF TRANSPORTATION AND NORTH CAROLINA DEPARTMENT OF TRANSPORTATION SUPPLEMENT.
 - IF ACCESSIBLE ROUTE IS A RAISED SIDEWALK AREA, THEN RAMPS ARE REQUIRED AT LOADING ZONE AREA.

ACCESSIBLE PARKING AND SIGNAGE DETAIL
NTS

FINAL DESIGN
NOT RELEASED FOR CONSTRUCTION

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

10/28/15 DATE

REVISIONS

NO.

1. REVISED PER TOWN COMMENTS.

CE GROUP

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11/3/15 SEAL 1888

SITE DEVELOPMENT PLANS FOR WEST STREET OFFICE BUILDING SITE DETAILS CHATHAM COUNTY, NC

Date: October 2015
Scale: -
Drawn: CPM
Checked: MPA
Project No: 127-190
Computer Dwg. Name: 127-190_Sht-06-07-SiteDetails

Sheet No: 7 Of 7