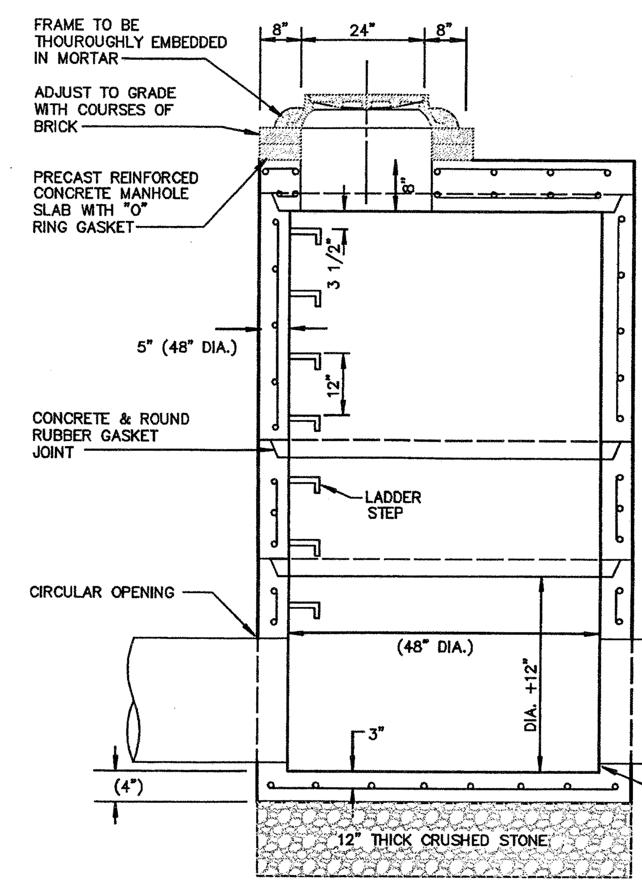
Plotted: 9/22/2011 10:35 AM, By: Lettini, Chris
File: M:\Eatontown\Jobs\Ikon5 Architects\210006000100\Dwg\DETAILS.dwg, ---> DETAILS
Copyright 2010, Birdsall Services Group, Inc., All Rights Reserved.



SLAB TOP MANHOLE 48" BASE

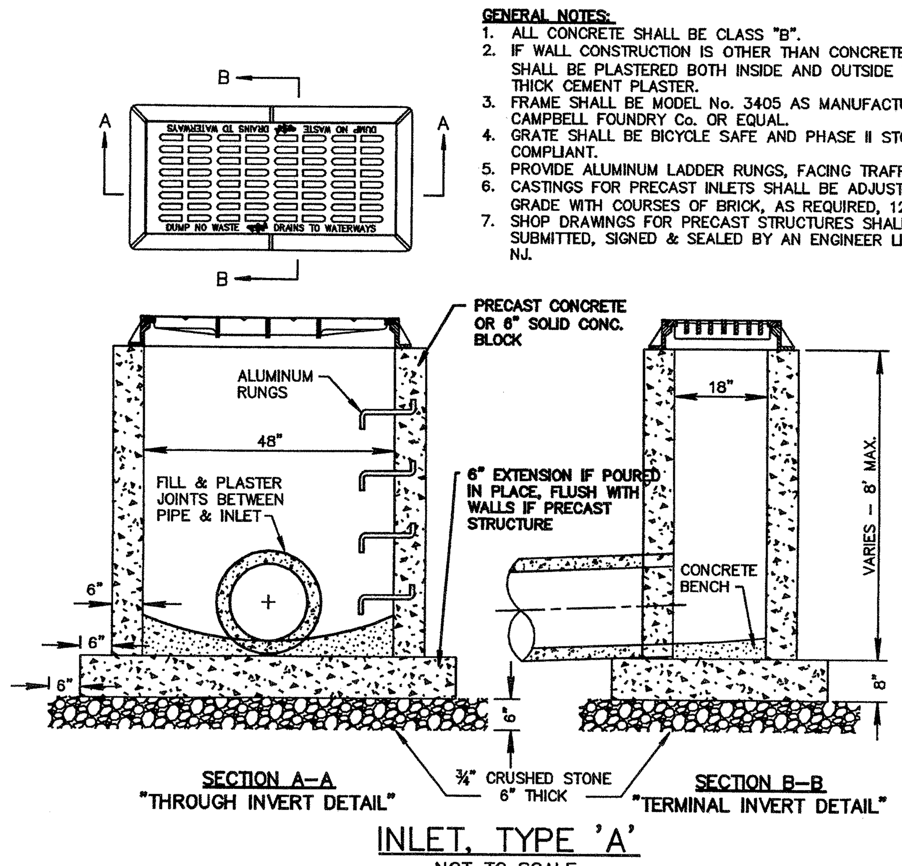
NOT TO SCALE

GENERAL NOTES:

1. FOOTER TO BE NJSHD CLASS "D" CONCRETE.
2. INVERT TO BE CLASS "C" CONCRETE.
3. IF WALL CONSTRUCTION IS OTHER THAN CONCRETE, THE WALLS SHALL BE PLASTERED BOTH INSIDE AND OUTSIDE WITH 1/2" THICK CEMENT PLASTER.
4. FRAME AND COVER TO BE NO. 1203 AS MANUFACTURED BY CAMPBELL FOUNDRY CO. OR EQUAL.
5. PROVIDE 3/4" DIAMETER POLY-PROPYLENE LADDER RUNGS 12" O.C.
6. WHEN ADDITIONAL DEPTH IS SCHEDULED, WALLS BELOW THE DEPTH AT 8'-0" MEASURED FROM THE INLET GUTTER TO INVERT, SHALL BE 12" THICK. THE FOUNDATION DIMENSION SHALL BE INCREASED 12" IN WIDTH AND TO 12" IN DEPTH.

GENERAL NOTES:

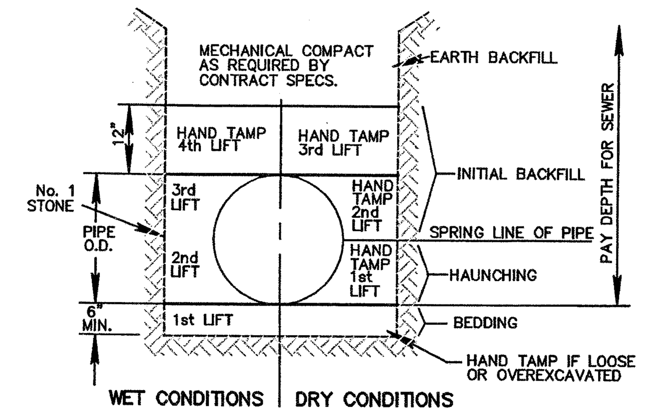
1. ALL CONCRETE SHALL BE CLASS "B".
2. IF WALL CONSTRUCTION IS OTHER THAN CONCRETE, WALLS SHALL BE PLASTERED BOTH INSIDE AND OUTSIDE WITH ½" THICK CEMENT PLASTER.
3. FRAME SHALL BE MODEL No. 3405 AS MANUFACTURED BY CAMPBELL FOUNDRY Co. OR EQUAL.
4. GRATE SHALL BE BICYCLE SAFE AND PHASE II STORM WATER COMPLIANT.
5. PROVIDE ALUMINUM LADDER RUNGS, FACING TRAFFIC, 12" O.C.
6. CASTINGS FOR PRECAST INLETS SHALL BE ADJUSTED TO GRADE WITH COURSES OF BRICK, AS REQUIRED, 12" MAXIMUM.
7. SHOP DRAWINGS FOR PRECAST STRUCTURES SHALL BE SUBMITTED, SIGNED & SEALED BY AN ENGINEER LICENSED IN NJ.



INLET, TYPE 'A'

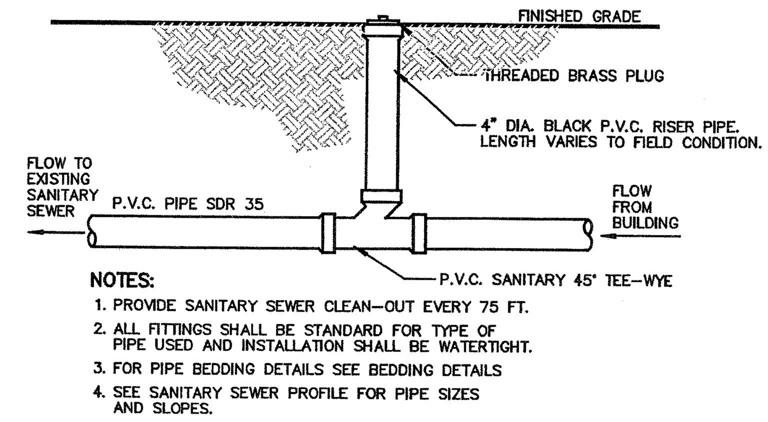
NOT TO SCALE

NOTE:
DEBRIS, FROZEN MATERIAL, LARGE CLODS OR STONES, ORGANIC MATTER OR OTHER UNSTABLE MATERIALS SHALL NOT BE USED FOR BACKFILL WITHIN TWO FEET OF THE TOP OF THE SEWER PIPE



BEDDING AND INITIAL BACKFILL H.D.P.E. PIPE

NOT TO SCALE

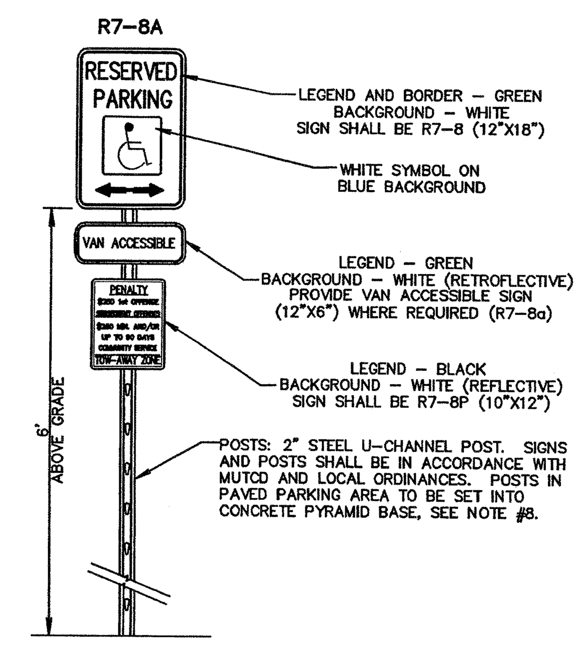


NOTES:

1. PROVIDE SANITARY SEWER CLEAN–OUT EVERY 75 FT.
2. ALL FITTINGS SHALL BE STANDARD FOR TYPE OF PIPE USED AND INSTALLATION SHALL BE WATERTIGHT.
3. FOR PIPE BEDDING DETAILS SEE BEDDING DETAILS
4. SEE SANITARY SEWER PROFILE FOR PIPE SIZES AND SLOPES.

SANITARY SEWER LATERAL CLEAN–OUT

NOT TO SCALE

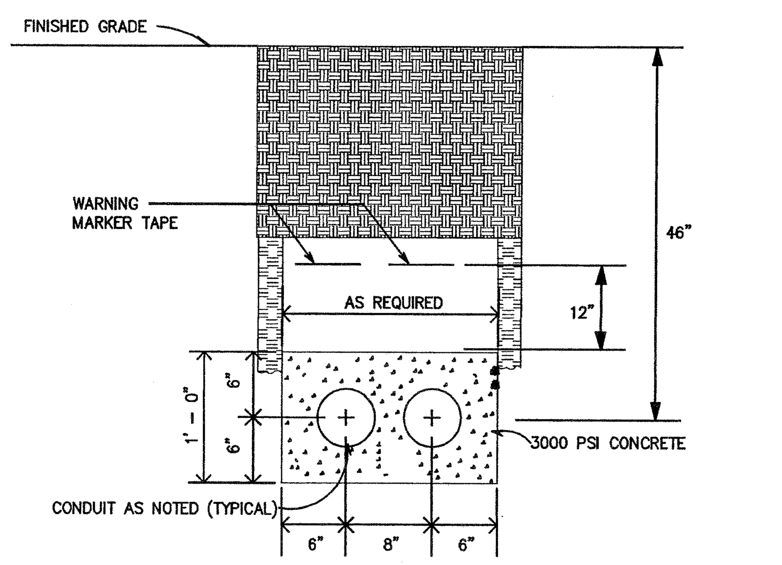


VAN ACCESSIBLE PARKING SIGNS

NOT TO SCALE

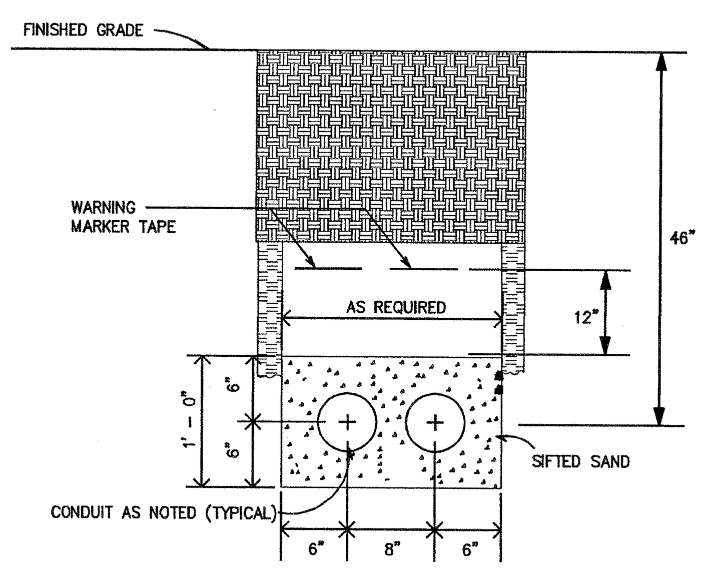
NOTE:

1. SIGNS/POSTS SHALL BE LOCATED AS SHOWN ON THE PLANS.
2. PLACE SIGNAGE ON STEEL POSTS AS DETAILED.
3. ALL SIGNS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
4. ALL SIGNS SHALL INCLUDE THE REFLECTIVE STRIP OF MATERIAL MOUNTED TO THE SIGN POST.
5. ALL SIGNS SHALL BE MINIMUM 18 GAUGE STEEL WITH BAKED ON ENAMEL FINISH.
6. PROVIDE WITH PRE–PUNCHED MOUNTING HOLES.



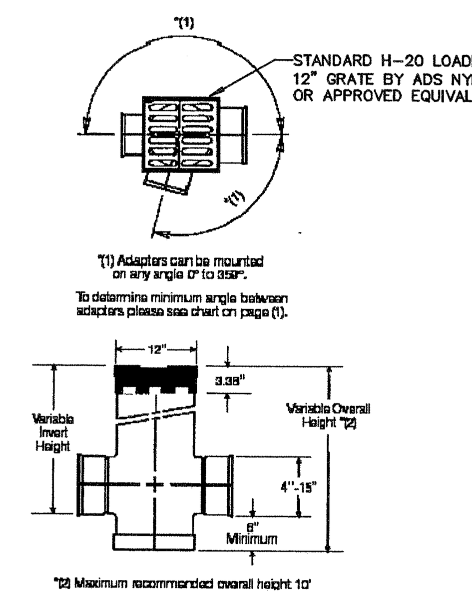
CONCRETE TRENCH FOR ELECTRICAL CONDUIT

NOT TO SCALE



SAND TRENCH FOR ELECTRICAL CONDUIT

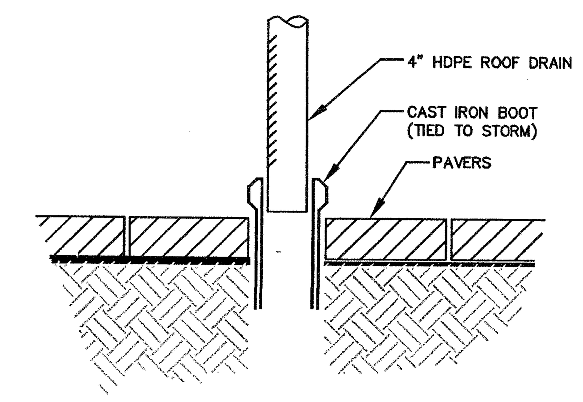
NOT TO SCALE



12" DRAIN BASIN

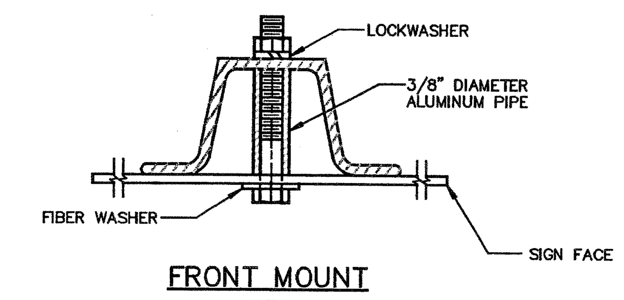
NOT TO SCALE

NOTE:
1. 12" NYLOPLAST DRAIN BASIN AS MANUFACTURED BY ADS, INC. (866–888–8479) OR APPROVED EQUIVALENT.



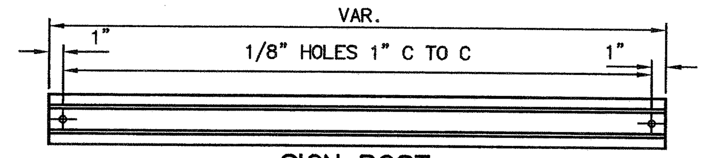
DOWNSPOUT BOOT

NOT TO SCALE



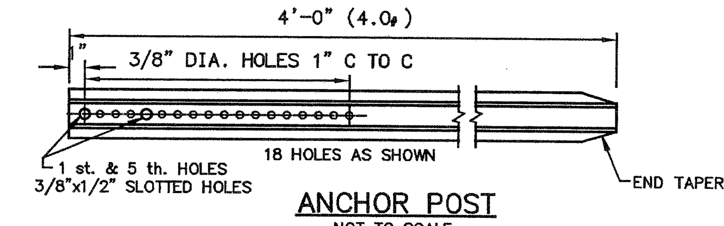
FRONT MOUNT

N.T.S.



SIGN POST

NOT TO SCALE

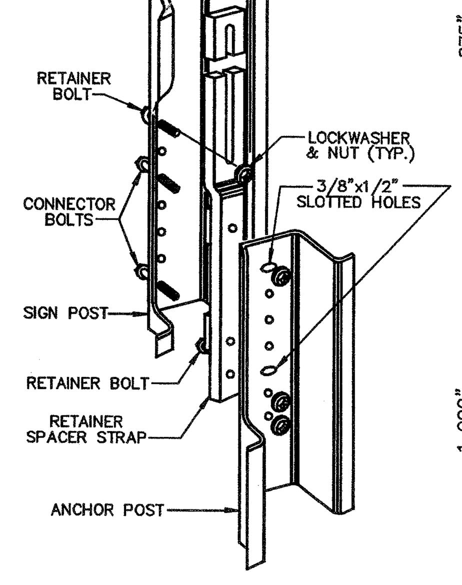


ANCHOR POST

NOT TO SCALE

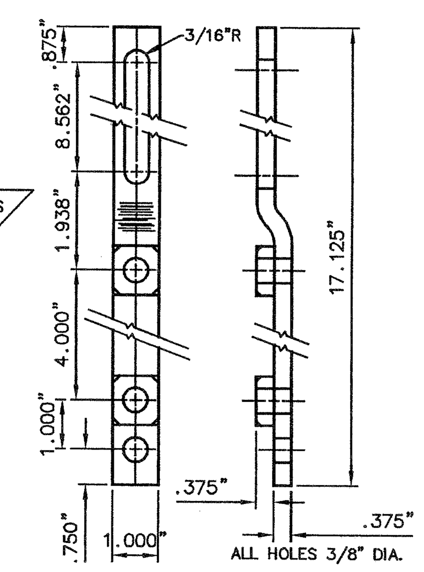
POST NOTES:

1. TWO PIECE STEEL U–POSTS SHALL BE EMBEDDED 4'–2" MINIMUM WHEN PLACED IN PARKING LOT ISLAND.
2. DRIVE THE ANCHOR POST INTO THE GROUND (UTILIZING A DRIVE CAP) UNTIL 10" TO 12" OF ANCHOR POST IS REMAINING ABOVE GROUND LEVEL.
3. ALIGN THE CONNECTION HOLE CLOSEST TO THE LONG SLOT IN THE RETAINER SPACER STRAP WITH THE TOP HOLE IN THE ANCHOR POST. THE STRAP IS THEN ATTACHED BY MAKING A BOLTED CONNECTION THROUGH THE BOTTOM HOLE IN THE STRAP AND THE HOLE IT ALIGNS WITH IN THE ANCHOR POST.
4. ROTATE THE STRAP 90 DEGREES TO THE LEFT AND DRIVE THE ANCHOR POST INTO THE GROUND UNTIL ONLY 4" REMAINS ABOVE GROUND LEVEL. THIS 4" MUST BE ADHERED TO FOR SAFETY REASONS TO ENHANCE THE BREAKAWAY FEATURES OF THE SIGN IN ACCORDANCE WITH CURRENT FEDERAL AND STATE SAFETY STANDARDS. EXCAVATE AS REQUIRED TO TIGHTEN BOLTS.
5. ROTATE THE STRAP BACK TO VERTICAL POSITION.
6. PLACE THE SIGN POST AGAINST THE ANCHOR POST AND THE STRAP. ALIGN THE BOTTOM HOLE IN THE SIGN POST WITH THE CONNECTION HOLE IN THE LOWER END OF THE STRAP. INSERT TWO (2) CONNECTOR BOLTS THROUGH THE COMMON HOLES IN THE SIGN POST, STRAP AND ANCHOR POST.
7. COMPLETE THE CONSTRUCTION BY ATTACHING THE STRAP TO THE SIGN POST WITH A BOLT AND NUT. THIS CONNECTION SHALL BE MADE AT THE BOTTOM OF THE LONG SLOT IN THE STRAP.
8. POSTS THAT ARE TO BE SET IN PAVED PARKING AREAS, SHALL BE SECURED TO A CONCRETE PYRAMID BASE AS MANUFACTURED BY TAPCO (800–236–0112), OR APPROVED EQUAL. CONCRETE PYRAMID BASE IS 18" SQUARE, 250 LB. WEIGHT. BASE INCLUDES AN 18" SQUARE POST SLEEVE AND ACCOMMODATES 2" SQUARE POSTS.



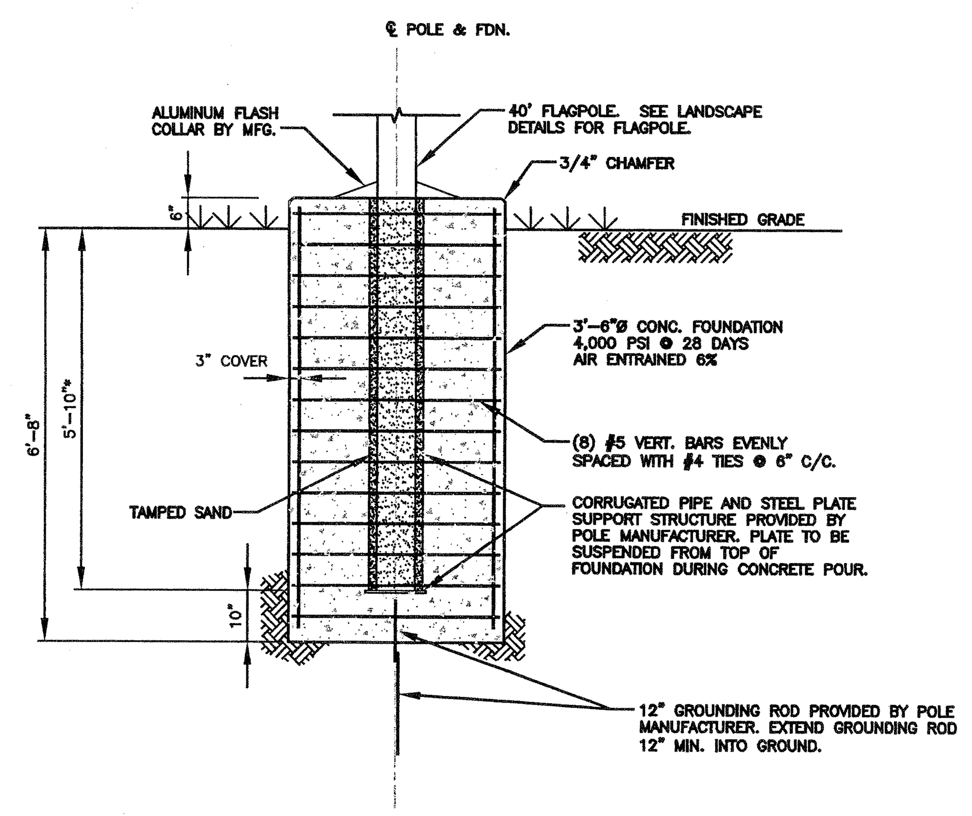
TWO PIECE STEEL U–POSTS

NOT TO SCALE



STRAP

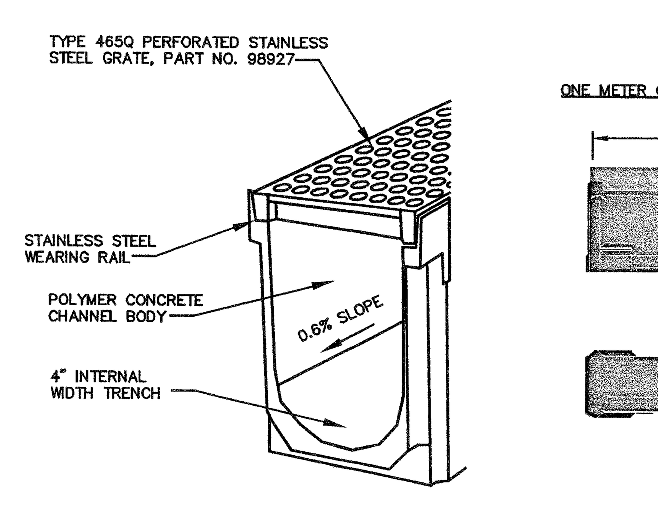
NOT TO SCALE

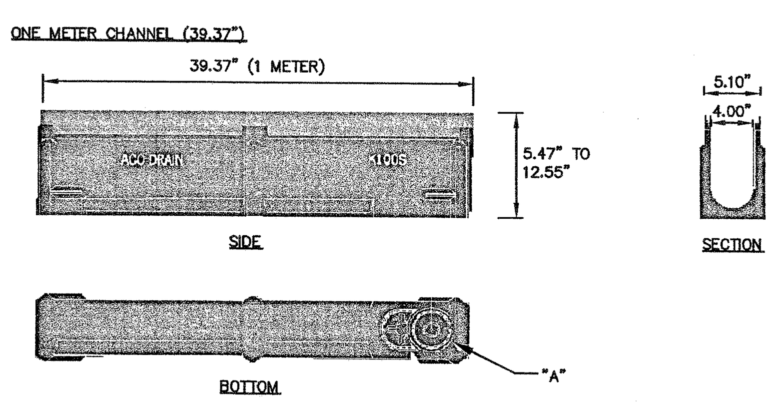


FLAG POLE FOUNDATION

1/2" = 1'–0"

NOTE:
* COORDINATE EXACT DIMENSION WITH MANUFACTURER.



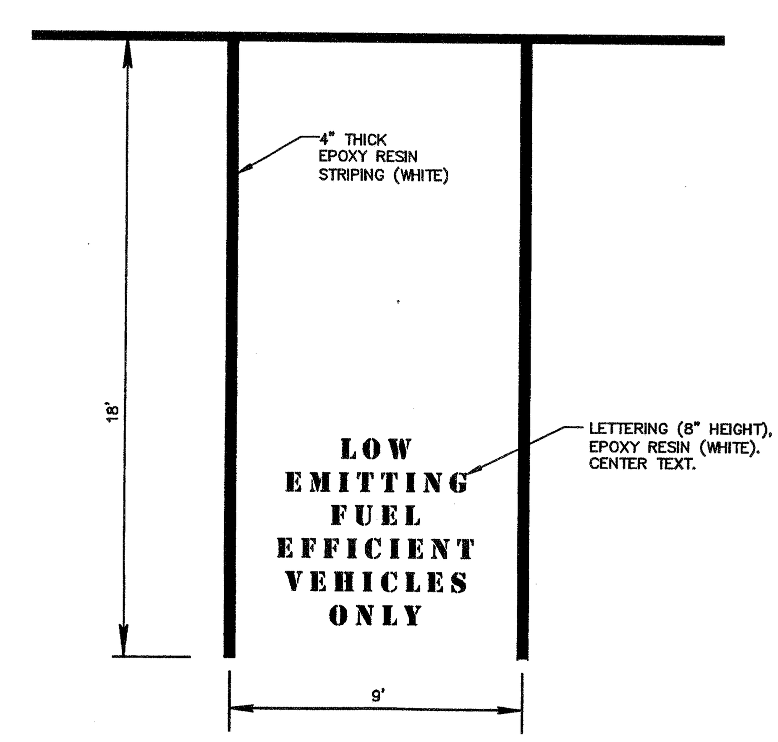


TRENCH DRAIN

NOT TO SCALE

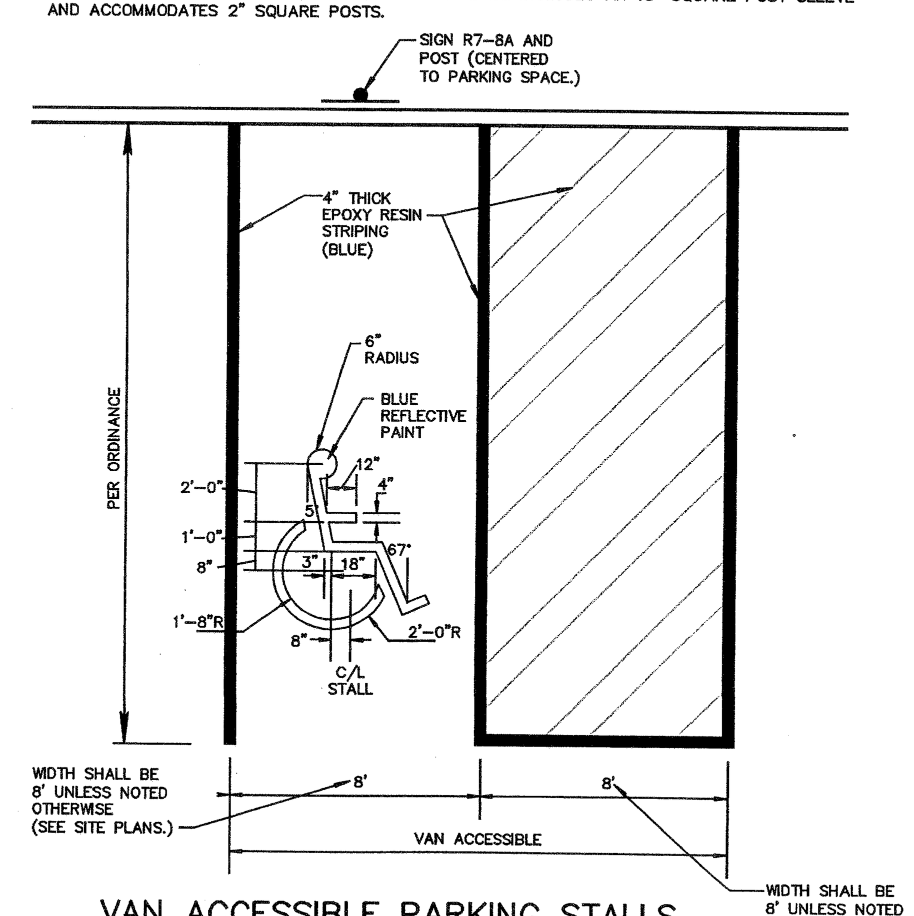
NOTES:

1. TRENCH DRAIN SHALL BE KLASSIKDRAIN, KS100S, 4" OPENING, POLYMER CONCRETE TRENCH DRAIN SYSTEM WITH STAINLESS STEEL EDGE RAIL, BY ACO DRAIN (800–543–4764) OR EQUAL.
2. CHANNEL TO HAVE TYPE KS01 4" ROUND BOTTOM OUTLET "A."
3. THE TRENCH DRAIN SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS.



LOW EMITTING FUEL EFFICIENT VEHICLE PARKING

NOT TO SCALE



VAN ACCESSIBLE PARKING STALLS

NOT TO SCALE

BIRDSALL SERVICES GROUP
ENGINEERS & CONSULTANTS

THOMAS K. ROSPOS, P.E.
NJ PROFESSIONAL ENGINEER Lic. No. 24GE02702800
DATE:

Birdsall Engineering, Inc.
611 Industrial Way West
Eatontown, NJ 07724
Certificate of Authorization No. 24GA27989800
Tel.: 732.380.1700
Fax.: 732.380.1701
WWW.BIRDSALL.COM

Date	Scale:(H) 1"=1' (V) Vert. Scale	Drawn	Designed CJL	Checked PTC	Released TKR

VERSIONS

No.	Date	Description
	10-03-2011	Bid Documents

ikon.5
architects

Architecture
Planning
Research
Strategy

864 Mapleton Road
Princeton, NJ 08540
609.919.0099
fax 609.919.0088
www.ikon5architects.com

Professional License Number

PROJECT TITLE:
VISITORS CENTER RENOVATION AND EXPANSION
MONMOUTH BATTLEFIELD STATE PARK

MANALAPAN, NEW JERSEY
PROJECT NO.: P1035.00

SHEET TITLE:
CONSTRUCTION DETAILS

DATE: 10-03-2011
DRAWN BY: CJL
DRAWING NO.:
C6.01