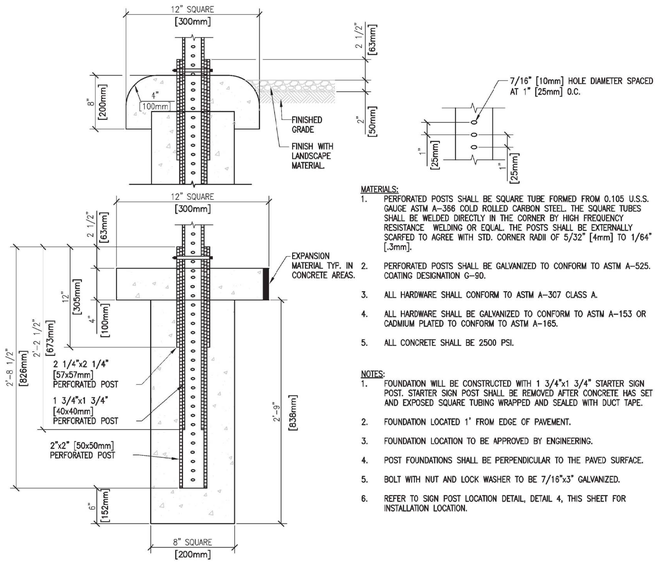


MATERIALS:

1. PERFORATED POSTS SHALL BE SQUARE TUBE FORMED FROM 0.105 U.S.S. GAUGE ASTM A-366 COLD ROLLED CARBON STEEL. THE SQUARE TUBES SHALL BE WELDED DIRECTLY IN THE CORNER BY HIGH FREQUENCY RESISTANCE WELDING OR EQUAL. THE POSTS SHALL BE EXTERNALLY SCARFED TO AGREE WITH STD. CORNER RADII OF 5/32" [4mm] TO 1/64" [.3mm].
2. PERFORATED POSTS SHALL BE GALVANIZED TO CONFORM TO ASTM A-525. COATING DESIGNATION G-90.
3. ALL HARDWARE SHALL CONFORM TO ASTM A-307 CLASS A.
4. ALL HARDWARE SHALL BE GALVANIZED TO CONFORM TO ASTM A-153 OR CADMIUM PLATED TO CONFORM TO ASTM A-165.
5. ALL CONCRETE SHALL BE 2500 PSI.

NOTES:

1. FOUNDATION WILL BE CONSTRUCTED WITH 1 3/4"x1 3/4" STARTER SIGN POST. STARTER SIGN POST SHALL BE REMOVED AFTER CONCRETE HAS SET AND EXPOSED SQUARE TUBING WRAPPED AND SEALED WITH DUCT TAPE.
2. FOUNDATION LOCATED 1' FROM EDGE OF PAVEMENT.
3. FOUNDATION LOCATION TO BE APPROVED BY ENGINEERING.
4. POST FOUNDATIONS SHALL BE PERPENDICULAR TO THE PAVED SURFACE.
5. BOLT WITH NUT AND LOCK WASHER TO BE 7/16"x3" GALVANIZED.
6. REFER TO SIGN POST LOCATION DETAIL, DETAIL 4, THIS SHEET FOR INSTALLATION LOCATION.

1 SIGN POST DETAIL SQUARE TUBE FOUNDATION

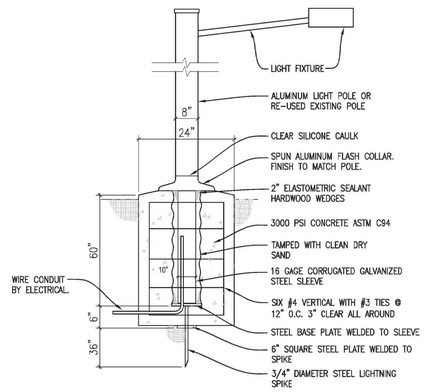
NTS

2 (NOT USED)

NTS

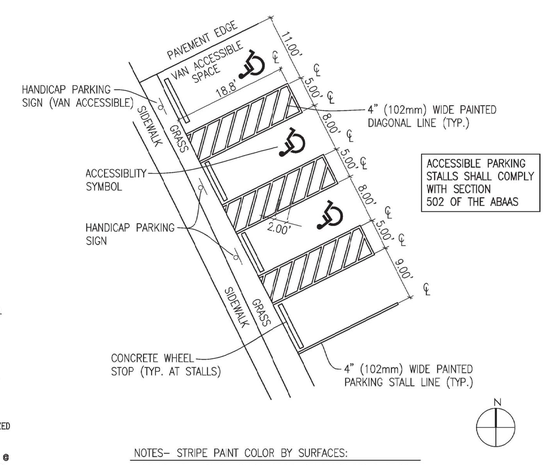
3 NOT USED

N.T.S.



4 LIGHT POLE BASE SECTION

N.T.S.



ACCESSIBLE PARKING STALLS SHALL COMPLY WITH SECTION 502 OF THE ABAAS

NOTES- STRIPE PAINT COLOR BY SURFACES:

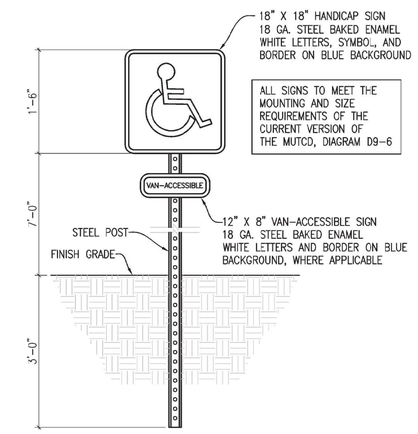
CONCRETE- MATCH CURRENT VA STANDARD USED AT SITE
ASPHALT- MATCH CURRENT VA STANDARD USED AT SITE

PAINT SHALL CONFORM TO FEDERAL SPECIFICATION TT-P-115.

CONTRACTOR SHALL APPLY TWO (2) COATS FOR STRIPING.

5 TYPICAL PARKING STALL LAYOUT

1" = 10'-0"



ALL SIGNS TO MEET THE MOUNTING AND SIZE REQUIREMENTS OF THE CURRENT VERSION OF THE MUTCD, DIAGRAM D9-6

NOTES:

1. SIGNS SHALL BE 18X18 INCH REFLECTIVE SHEETING ON 0.080 ALUMINUM.
2. POSTS SHALL BE 8' LONG (MINIMUM) HOT-ROLLED HIGH TENSILE RAIL STEEL, PERFORATED WITH 3/8" HOLES AT 1" CENTERS, FINISHED WITH GREEN BAKED ENAMEL.
3. SIGNS MAY BE INSTALLED ONTO BUILDING AT VA'S DISCRETION VERIFY W/COR PRIOR TO CONSTRUCTION.

6 HANDICAP PARKING SIGN DETAIL

NTS

Revisions:	Date

CONSULTANTS:

ARCHITECT/ENGINEERS:

Architect Project No. 003-10121-017

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Drawing Title: SITE-CIVIL DETAILS

Approved Project Director: Name

Project Title: FISHER HOUSE SITE PREP

Location: OMAHA, NE

Date: October 18, 2016 R | Checked: AAH | Drawn: JMK

Project Number: 636-CSI-100

Building Number: A, B, 3

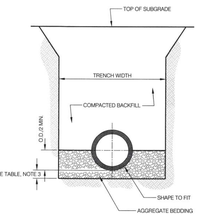
Drawing Number: C503

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

P:\003\003-10121-017\E Design SD-DD-CD\01 Drawings\04 Civil\VAF C503.dwg October 18, 2016 - 2:33pm JMKent



RIGID PIPE BEDDING

TABLE A
SEWER PIPE TRENCH WIDTH

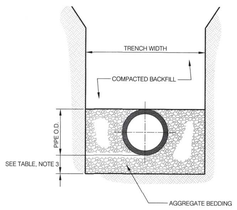
PIPE DIAMETER (INCHES)	RIGID AND SEMI-RIGID PIPE: MINIMUM TRENCH WIDTH	RIGID AND SEMI-RIGID PIPE: MAXIMUM TRENCH WIDTH	FLEXIBLE PIPE*
8"	X	X	*FLEXIBLE PIPE TRENCH WIDTH SHALL BE DESIGNED BASED ON SOIL CONDITIONS AND DEPTH OF COVER BY A PROFESSIONAL ENGINEER AS SHOWN ON THE PLANS
10"	X	X	
12"	3' 4"	4' 0"	
15"	3' 8"	4' 6"	
18"	3' 11"	5' 0"	
21"	4' 3"	5' 6"	
24"	4' 6"	5' 6"	
27"	4' 10"	6' 6"	
30"	5' 2"	6' 6"	
36"	5' 9"	7' 6"	
42"	6' 4"	8' 0"	
48"	6' 10"	9' 0"	
54"	7' 5"	10' 0"	
60"	8' 0"	10' 0"	
66"	8' 10"	11' 0"	
72"	9' 8"	13' 0"	
78"	10' 4"	14' 0"	
84"	11' 0"	14' 0"	
90"	12' 0"	15' 0"	

NOTES

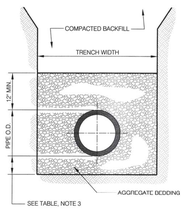
1. ALL SEWERS SHALL BE INSTALLED AS SHOWN UNLESS OTHERWISE CALLED FOR BY THE PLANS, THE SPECIAL PROVISIONS OR AUTHORIZED BY THE ENGINEER.
2. AGGREGATE BEDDING SHALL BE IN ACCORDANCE WITH THE MATERIAL REQUIREMENTS OF SECTION 700 OF THE STANDARD SPECIFICATIONS.
3. THE MINIMUM AGGREGATE BEDDING DEPTH BELOW THE PIPE OR MANHOLE SHALL CONFORM TO THE FOLLOWING:

INTERNAL PIPE DIAMETER	MINIMUM BEDDING DEPTH
30" OR SMALLER, MANHOLES...	6"
OVER 30" TO 60"	9"
OVER 60"	12"

4. SEWER PIPE SHALL BE GENERALLY CLASSIFIED AS FOLLOWS:
   RIGID PIPE R.C.P.
   SEMI-RIGID D.I.P., VCP, CORRUGATED ALUMINUM
   FLEXIBLE SOLID WALL PVC, CORRUGATED PVC, PROFILE WALL PVC, CENTRIFUGALLY CAST FIBERGLASS POLYMER MORTAR PIPE
5. THE MINIMUM AND MAXIMUM TRENCH WIDTHS FOR RIGID, SEMI-RIGID AND FLEXIBLE PIPE SHALL BE AS SHOWN IN TABLE A.
6. SOIL BACKFILL SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 200 OF THE STANDARD SPECIFICATIONS.
7. IF UNSTABLE TRENCH SUBGRADE CONDITIONS ARE ENCOUNTERED, ADDITIONAL AGGREGATE BEDDING OR FOUNDATION ROCK SHALL BE BE PLACED BELOW THE BEDDING AGGREGATE TO STABILIZE THE TRENCH AS DIRECTED BY THE ENGINEER.
8. FOUNDATION ROCK SHALL CONSIST OF 3" MAXIMUM CRUSHED ROCK MEETING THE GRADATION REQUIREMENTS OF ASTM C 33, SIZE 2.
9. SEWER BEDDING DETAILS SHALL BE REVIEWED FOR APPLICABILITY BY A LICENSED PROFESSIONAL ENGINEER.

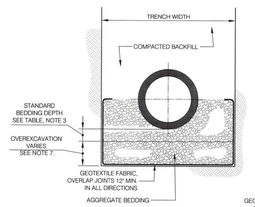


SEMI-RIGID PIPE BEDDING

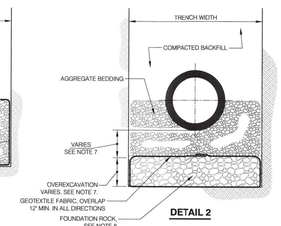


FLEXIBLE PIPE BEDDING

AGGREGATE BEDDING DETAILS



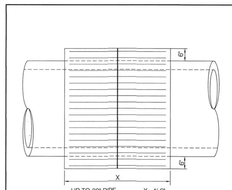
DETAIL 1



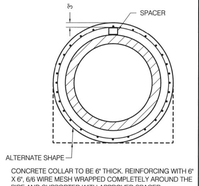
DETAIL 2

TRENCH STABILIZATION / OVEREXCAVATION DETAILS

DESIGN ENGINEER / CITY ENGINEER	CITY OF OMAHA PUBLIC WORKS DEPARTMENT **SEWER BEDDING**	STANDARD PLATE **700-01** SHEET 1/1 ISSUE DATE: ... DECEMBER 10, 2013

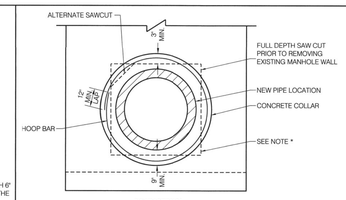


CONCRETE COLLAR - ELEVATION VIEW



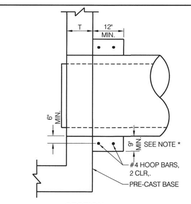
CONCRETE COLLAR TO BE 6" THICK, REINFORCING WITH 6" X 6", 6/6 WIRE MESH WRAPPED COMPLETELY AROUND THE PIPE AND SUPPORTED WITH APPROVED SPACER. CONCRETE SHALL BE 6.6 M.

CONCRETE COLLAR - SECTION VIEW



ELEVATION

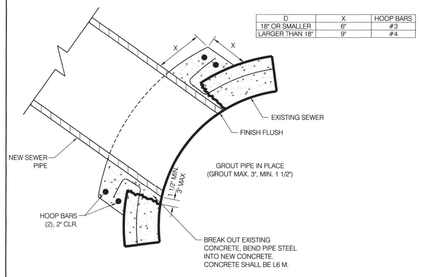
2' MIN. CLEARANCE BETWEEN PIPE AND NEW MANHOLE OPENING



SECTION

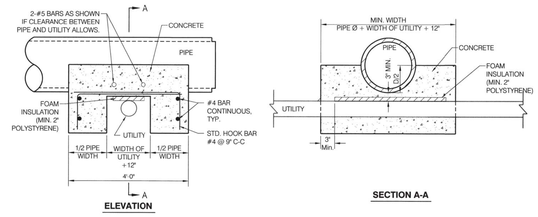
PRECAST STORM MANHOLE TAP DETAIL

* THE CONCRETE COLLAR SHALL BE PLACED SUCH THAT IT COVERS THE WALL OPENING PLUS 3" MINIMUM WIDTH OUTSIDE THE SAW CUT.



D	X	HOOP BARS
18" OR SMALLER	6"	#3
LARGER THAN 18"	9"	#4

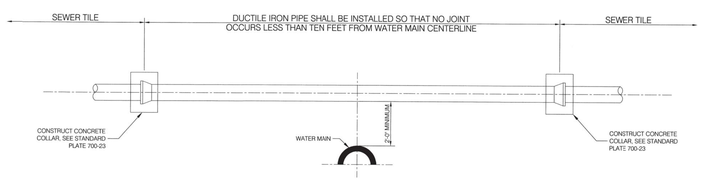
SEWER TAP - ELEVATION VIEW



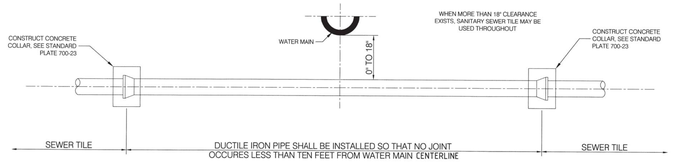
ELEVATION **SECTION A-A**

CONCRETE SADDLE DETAIL

DESIGN ENGINEER / CITY ENGINEER	CITY OF OMAHA PUBLIC WORKS DEPARTMENT **CONCRETE COLLAR AND SEWER TAP**	STANDARD PLATE **700-23** SHEET 1/1 ISSUE DATE: ... DECEMBER 10, 2013

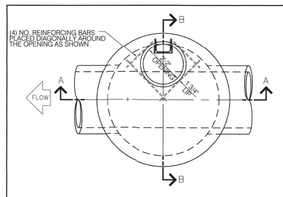


SEWER CROSSING OVER WATER MAIN
NO SCALE

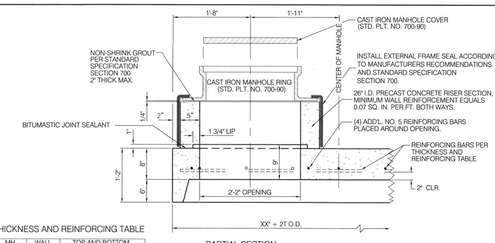


SEWER CROSSING UNDER WATER MAIN
NO SCALE

DESIGN ENGINEER / CITY ENGINEER	CITY OF OMAHA PUBLIC WORKS DEPARTMENT **SANITARY SEWER WATER MAIN CROSSING**	STANDARD PLATE **700-25** SHEET 1/1 ISSUE DATE: ..... DECEMBER 10, 2013



PLAN VIEW
SHOWN WITHOUT RISER SECTION



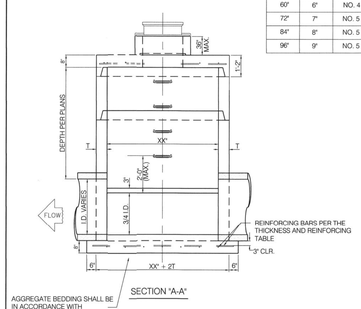
PARTIAL SECTION
REINF. CONCRETE TOP

THICKNESS AND REINFORCING TABLE

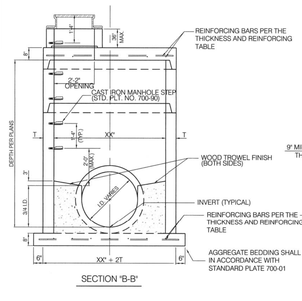
MH DIA.	WALL THICK.	TOP AND BOTTOM SLAB REINFORCING
XX"	T	BAR SIZE, SPACING
54"	5.5"	NO. 4 @ 6" C.-C.
60"	6"	NO. 4 @ 6" C.-C.
72"	7"	NO. 5 @ 7 1/2" C.-C.
84"	8"	NO. 5 @ 6 1/2" C.-C.
96"	9"	NO. 5 @ 6 1/2" C.-C.

NOTES

1. CONCRETE SHALL BE IN ACCORDANCE WITH SECTION 700 OF THE STANDARD SPECIFICATIONS.
2. THE INVERT OF THE MANHOLE SHALL BE MONOLITHICALLY POURED CONCRETE.
3. UNLESS OTHERWISE INDICATED IN THE CONTRACT DOCUMENTS "BIRD BATH" STYLE CAST-IN-PLACE MANHOLE BASE CONSTRUCTION SHALL BE PERMITTED.
4. WHERE REINFORCING BARS ARE USED, THE STEEL SHALL BE DEFORMED BARS. THE COVERING, MEASURED FROM THE FACE OF CONCRETE TO THE SURFACE OF ANY REINFORCING BAR SHALL BE TWO INCHES UNLESS OTHERWISE NOTED.
5. REINFORCING SHALL BE PLACED WITH A TOLERANCE OF -1/4" AND +1/2" ON CLEARANCE.
6. PRECAST CONCRETE MANHOLE SECTIONS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 700 OF THE STANDARD SPECIFICATIONS AND WALL THICKNESS SHALL BE AS SHOWN IN TABLE.
7. PRECAST CONCRETE MANHOLE JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 700 OF THE STANDARD SPECIFICATIONS
8. PRECAST CONCRETE MANHOLES WITH PIPE OPENINGS SHALL HAVE CONCRETE COLLARS CONSTRUCTED AT THE MANHOLE CONNECTION PER STANDARD PLATE 700-23.
9. FOR MANHOLES GREATER THAN 20'-0" IN DEPTH, THE STRUCTURE SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEBRASKA.
10. RISER SECTIONS SHALL BE OF THE LARGEST VERTICAL DIMENSION POSSIBLE.
11. FOR MANHOLES USING BITUMASTIC JOINT SEALANT, EXTERNAL SEALING WRAP SHALL BE INSTALLED ON EACH JOINT.



SECTION "A-A"



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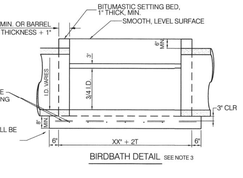

BIRDBATH DETAIL SEE NOTE 3

DESIGN ENGINEER / CITY ENGINEER	CITY OF OMAHA PUBLIC WORKS DEPARTMENT **STORM SEWER MANHOLE**	STANDARD PLATE **700-40** SHEET 1/1 ISSUE DATE: ... DECEMBER 10, 2013

Revisions:	Date

CONSULTANTS:

ARCHITECT/ENGINEERS:

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Architect Project No. 003-10121-017

Drawing Title: SITE-CIVIL DETAILS

Approved: Project Director — Name

Project Title: FISHER HOUSE SITE PREP

Location: OMAHA, NE

Date: October 18, 2016 R | Checked: AAH | Drawn: JMK

Project Number: 636-CSI-100

Building Number: A, B, 3

Drawing Number: C504

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

VA FORM 08-6231, OCT 1978