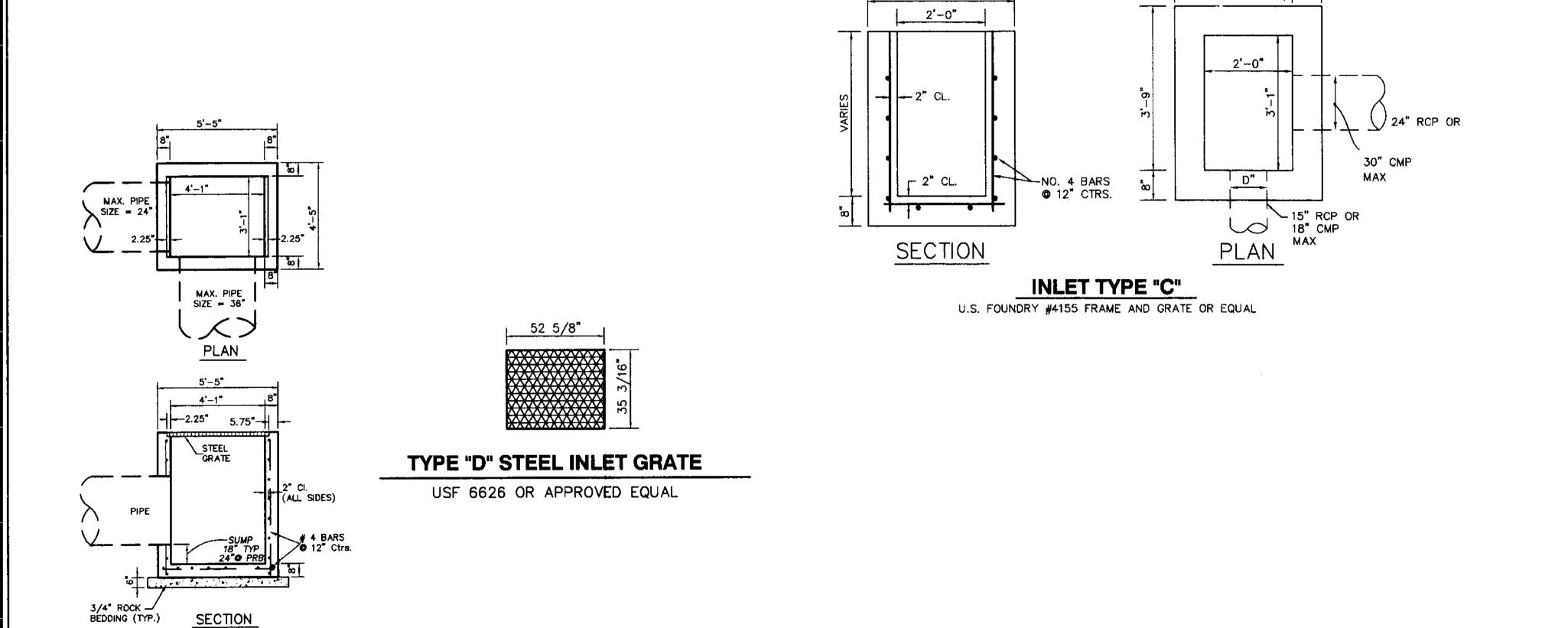
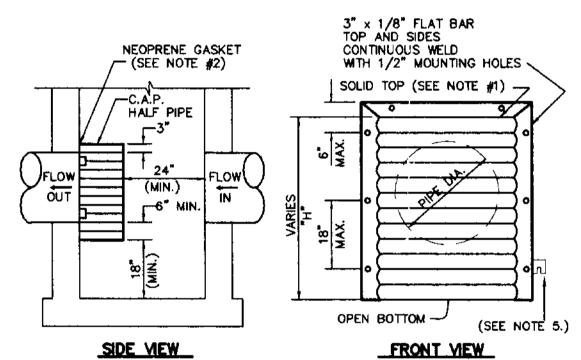


3'-4"





POLLUTION BAFFLE DETAIL

PIPE DIA.	W ¹ (IN)	ψ ² (IN)	T (GAUGE)	H (N)	NOTES:
15"	21"	21*	16	VARIES	1. ALUMINUM SHEET OF SA
18"	24"	24"	16	VARIES	SHALL BE WELDED TO C OR BOTTOM.
21"	30"	30"	16	VARIES	2. NEOPRENE ADHESIVE BA
24"	30"	36"	16	VARIES	EQUAL (1" x 2") SHALL AND TOP OF ALL BAFFL
30"	36"	42"	14	VARIES	3. POLLUTION RETARDANT I
36"	42"	48"	14	VARIES	PLACE WITH 3/8"x4" ST OR APPROVED EQUAL.
42"	48"	54"	14	VARIES	4. FIBERGLASS BAFFLES AR
48"	54"	60"	14	VARIES	5. MOUNTING BRACKETS MA
54"	60"	66"	14	VARIES	EASE INSTALLATION IN F
					# MAISO DULES IN SERI (

SAME THICKNESS (GAUGE) AS PIPE CLOSE OPENING AT THE TOP BACKED GASKET, OR APPROVED L BE INSTALLED ON THE SIDES FLES.

BAFFLE TO BE FASTENED IN STAINLESS STEEL "RED HEADS",

ARE NOT PERMITTED.

MAY BE ADDED TO FLAT BARS TO ROUND STRUCTURES. SPACING TO

NEOPRENE GASKET TYP. (SEE NOTE #2) 1/2 ROUND CORRUGATED ALUMINUM PIPE TYP. TOP VIEW
RECTANGULAR STRUCTURE ROUND STRUCTURE

GENERAL DRAINAGE STRUCTURES NOTES:

THE CONCRETE MAY BE CAST-IN-PLACE OR PRECAST.

REINFORCEMENT ARE FOR ALL TYPES OF CONSTRUCTION.

ACCORDANCE WITH A.S.T.M. C-76.

MINIMUM OF 24 BAR DIAMETERS AT CORNERS.

THE STORM SEWER PIPES.

STRAIGHT EMBEDMENTS.

3. ELLIPTICAL STEEL, A.S.T.M. SPECIFICATION C-76 TABLE III, "B" WALL,

WALL OF CIRCULAR STRUCTURES [ALTERNATE "A"] OR RECTANGULAR STRUCTURES [ALTERNATE "B"] SHALL BE CONSTRUCTED OF CONCRETE ONLY.

WALL REINFORCEMENT AND THICKNESS ARE FOR EITHER CAST-IN-PLACE OR PRECAST CONCRETE UNITS EXCEPT THAT THE MANUFACTURER MAY FURNISH

PRECAST CIRCULAR UNITS IN ACCORDANCE WITH A.S.T.M. SPECIFICATION

SPECIFICATION C-76, TABLE III, FOR "B" WALL CONCRETE PIPE WITH 6"

IS MODIFIED TO USE A CIRCULAR CAGE OF STEEL AREA EQUAL TO THAT OF THE ELLIPTICAL CAGE AND PLACED IN THE CENTER ONE-THIRD OF THE WALL. THIS MODIFICATION IS FOR PRECAST CIRCULAR UNITS PRODUCED IN

4. RECTANGULAR STRUCTURES MAY BE ROTATED AS DIRECTED BY THE ENGINEER

5. EMBEDMENT HOOKS IN THE TOP AND BOTTOM SLABS MAY BE REPLACED WITH

6. ALL STEEL BARS SHALL HAVE 2" MINIMUM COVER UNLESS OTHERWISE SHOWN. HORIZONTAL STEEL IN RECTANGULAR STRUCTURES SHALL BE LAPPED A

7. THE CORNER FILLETS SHOWN FOR RECTANGULAR STRUCTURES ARE NECESSARY

STRUCTURES WITH A MINIMUM OF 6 - NO. 4 BARS 12" LONG OR KEYED.

CONTRACTOR'S OPTION WHEN THESE UNITS WILL NOT CAUSE OR INCREASE

FURNISHED AT NO ADDITIONAL COST TO THE OWNER. LARGER ALTERNATE "A" UNITS CANNOT REPLACE ALTERNATE "B" UNITS WITHOUT APPROVAL OF

THE SEVERITY OF UTILITY CONFLICTS. SUCH LARGER UNITS SHALL BE

10. GRATE AND FRAME FOR MANHOLES AND CATCH BASINS SHALL BE TRAFFIC BEARING DESIGN, WITH A MINIMUM COMBINED WEIGHT OF 410 POUNDS.

THROATS [TYPES 1, 2, 3 AND 4] OR WHEN USED ON SKEW WITH RECTANGULAR INLET THROATS [TYPE 5 AND 6].

9. LARGER THAN SPECIFIED STANDARD UNITS MAY BE SUBSTITUTED AT THE

8. INLET THROATS, RISERS OR MANHOLE TOPS SHALL BE SECURED TO

THE ENGINEER AND B.C.E.D. FOR COUNTY RIGHT-OF-WAY.

MINIMUM LID WEIGHT OF 165 POUNDS.

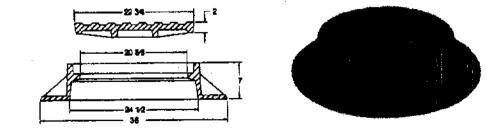
ONLY WHEN STRUCTURES ARE USED IN CONJUNCTION WITH CIRCULAR INLET

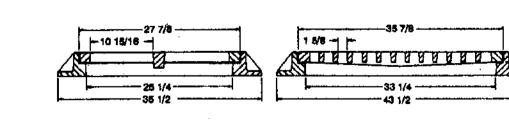
IN ORDER TO FACILITATE CONNECTIONS BETWEEN THE STRUCTURE WALLS AND

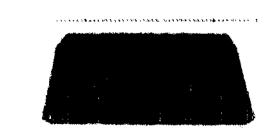
C-478 UP TO 96" IN DIA. OR PRECAST CIRCULAR UNITS A.S.T.M.

MINIMUM WALL THICKNESS. TOP AND FLOOR SLAB THICKNESS AND

POLLUTION RETARDANT BAFFLE DETAILS







1. RECTANGULAR STRUCTURE

2. ROUND STRUCTURE

USF 420-C MANHOLE COVER DETAIL

USF 4155 FRAME & GRATE DETAIL

	NAME	DATE	REVISIONS	NO.	DATE	BY
APPROVED BY		8/04	REV PER CITY COMMENTS	1	9/23/04	JWR
CHECKED BY	JWR	8/04				
DRAWN BY	41903-COV	8/04				
DESIGNED BY	JWR	8/04				

TYPE "D" INLET

FDOT INDEX #232



JOSEPH ROLES AND ASSOC., INC. CONSULTING ENGINEERS

7501 N.W. 4th STREET, SUITE 101 PLANTATION, FLORIDA 33317 PHONE (954) 581-1945 CERTIFICATE OF AUTHORIZATION NO. 3948

RETAIL CENTER AT WINSTON PARK LYO

NS	ROAD COCON	AND	WINST	ON	PARI	(BL	

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	OCT 2 0 2004	

DATE:	AUGUST, 2004
SCALE:	1"= 40'
PROJECT NO.	102-419-03

DRAINAGE DETAILS

JOSEPH W. ROLES. JR. P.E. SHEET NO. REG. ENGINEER NO. 16965 10