

## Contract Administration Michael W. Chucran, Director

306 East Jackson Street, 4N Tampa, FL 33602

> Office (813) 274-8116 Fax: (813) 274-7368

### ADDENDUM 1 Via E-Mail DATE: September 24, 2020

Contract 21-C-00001; WASTEWATER COLLECTION SYSTEM REPAIRS FY21

City of Tampa

Jane Castor, Mayor

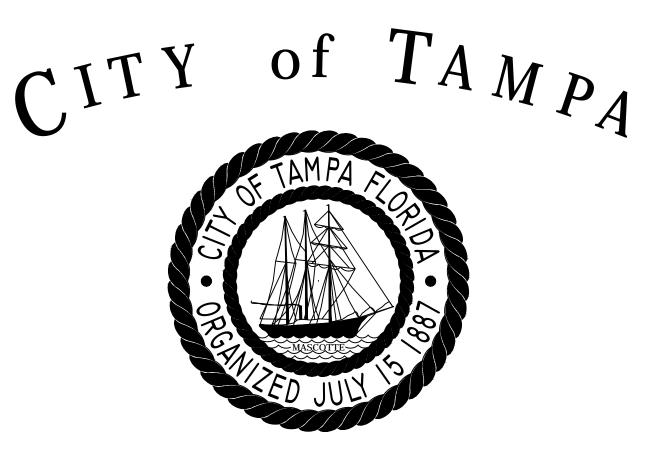
Bidders on the above referenced project are hereby notified that the following addendum is made to the Contract Documents. BIDS TO BE SUBMITTED SHALL CONFORM TO THIS NOTICE.

Item 1: Attached are the Standard Details for the Wastewater Collection System Repair FY21 project.

All other provisions of the Contract Documents and Specifications not in conflict with this Addendum shall remain in full force and effect. Questions are to be e-mailed to Contract Administration@tampagov.net.

im Greiner

Jim Greiner, P.E., Contract Management Supervisor



# WASTEWATER DEPARTMENT ENGINEERING DIVISION

STANDARD DETAILS FOR

# WASTEWATER COLLECTION SYSTEM REPAIR - FY202I

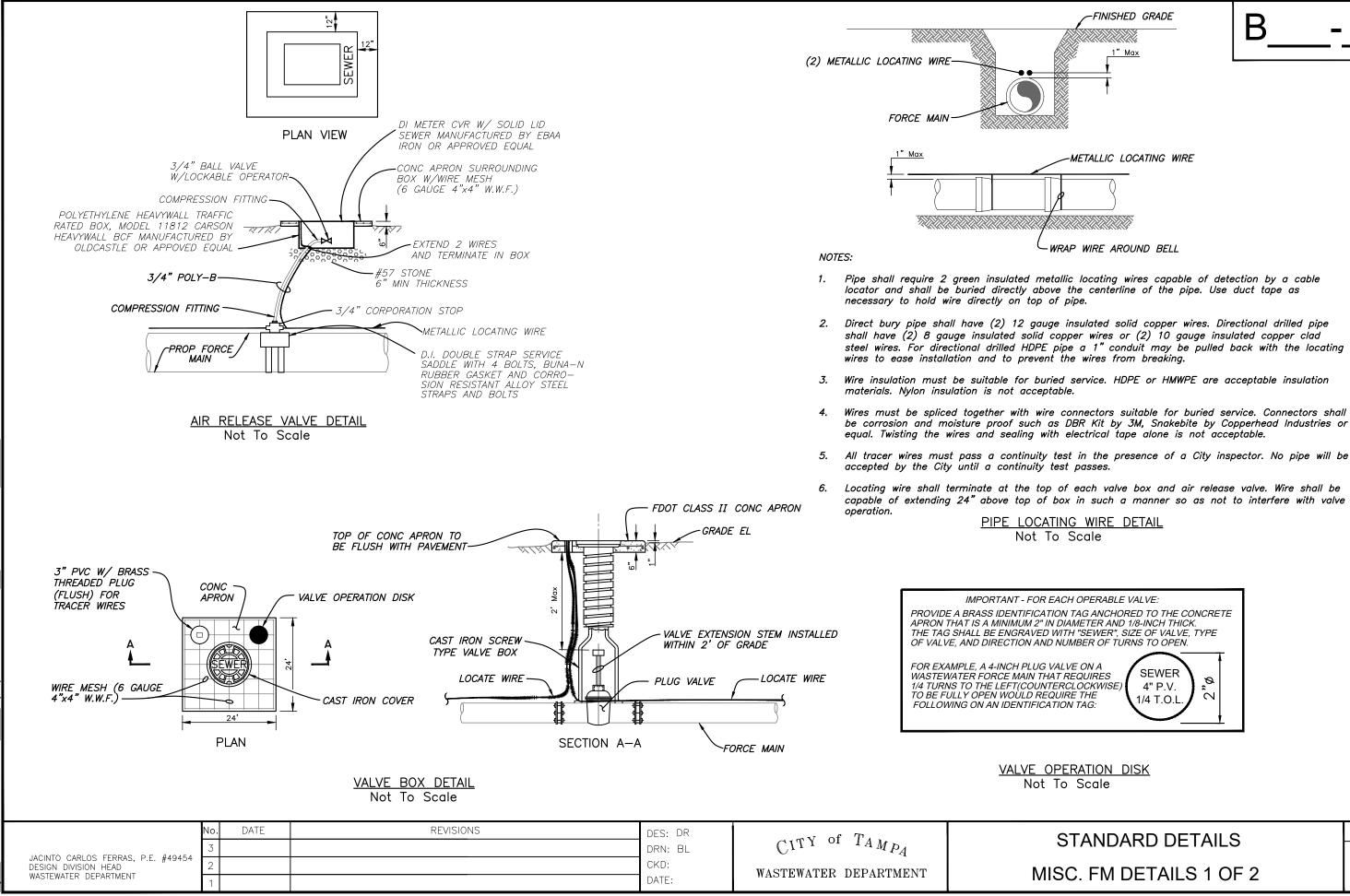
CONTRACT No. 21-C-00001

	No.	DATE	REVISIONS	DES:	as of The	
	1			DRN:	CITY of TAMPA	
JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD	2			CKD:	WASTEWATER DEPARTMENT	
WASTEWATER DEPARTMENT	3			DATE: Aug-2020		

	INDEX
SHT. NO.	DESCRIPTION
1	COVER
2	MISCELLANEOUS FORCE MAIN DETAILS 1 OF 2
3	MISCELLANEOUS FORCE MAIN DETAILS 2 OF 2
4	MISCELLANEOUS GRAVITY MANHOLE FRAME AND COVER DETAILS
5	LATERAL CONNECTIONS (NEW)
6	CLEANOUT COVER DETAILS
7	STANDARD MANHOLE 8 TO 24
8	DOGHOUSE MANHOLE DETAILS
9	FIBERGLASS REINFORCED POLYESTER MANHOLE DETAILS
10	JACK AND BORE DETAILS

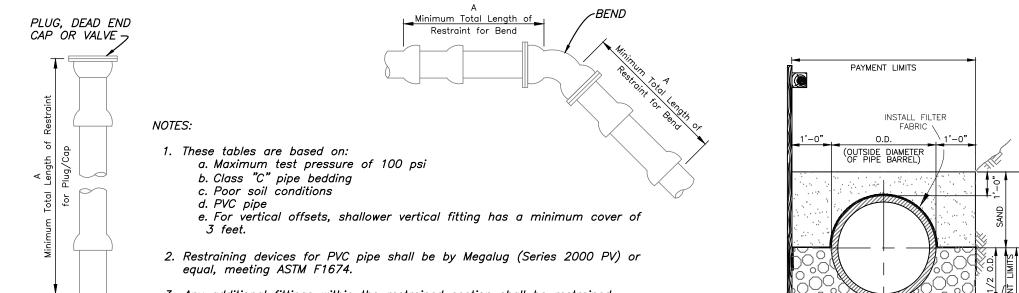
STANDARD DETAILS COVER

W.(	0
	1
OF 10	



В





- 3. Any additional fittings within the restrained section shall be restrained accordingly.
- 4. One standard length of PVC pipe (20 feet) shall be laid on either side of the fitting where possible.

### HORIZONTAL OFFSET:

RESTRAIN "A" (LF) $^*$ 

FITTING TYPE	4"	6"	8"	10"	12"	16"	18"	20"	24"
11-1/4°	1*	2*	2*	2*	3*	3*	3*	4*	4*
22-1/2*	2*	3*	3*	4*	5*	6*	6*	7*	8*
45°	4*	5*	7*	8*	9*	11*	13*	14*	16*
90°	9*	12*	15*	18*	21	27	29	32	37
PLUG / CAP / ISOLATION VALVE	26	36	47	56	66	85	94	102	119

A = MINIMUM FOOTAGE OF PIPE TO BE RESTRAINED

\* MINIMUM ONE PIPE JOINT UPSTREAM AND DOWNSTREAM OF EACH FITTING SHALL BE RESTRAINED

### VERTICAL OFFSET:

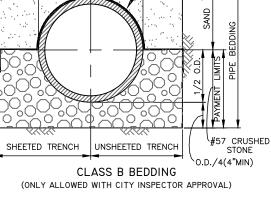
RESTRAIN "A" (LF)\*

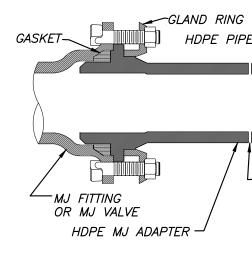
FITTING TYPE	4"	6"	8"	10"	12"	16"	18"	20"	24"
11-1/4°	3*	4*	5*	6*	7*	9*	10*	11*	12*
22—1/2°	5*	8*	10*	12*	14*	17*	19*	21	24
45°	11*	15*	20	23	28	35	39	43	50

A = MINIMUM FOOTAGE OF PIPE TO BE RESTRAINED

\* MINIMUM ONE PIPE JOINT UPSTREAM AND DOWNSTREAM OF EACH FITTING SHALL BE RESTRAINED

### FITTING RESTRAINT DETAIL





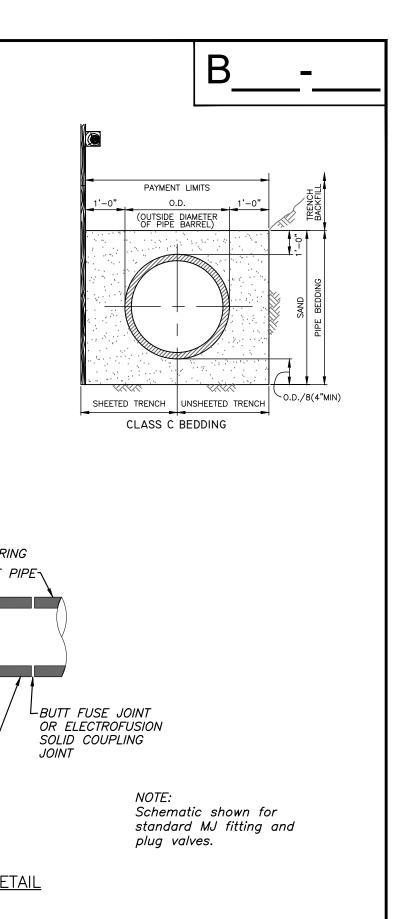
HDPE	TRA	ANS	ITION	DE
	Not	То	Scale	e

 No.
 DATE
 REVISIONS
 DES: DR

 JACINTO CARLOS FERRAS, P.E. #49454
 3
 DR
 DRN: BL

 2
 CKD:
 CKD:

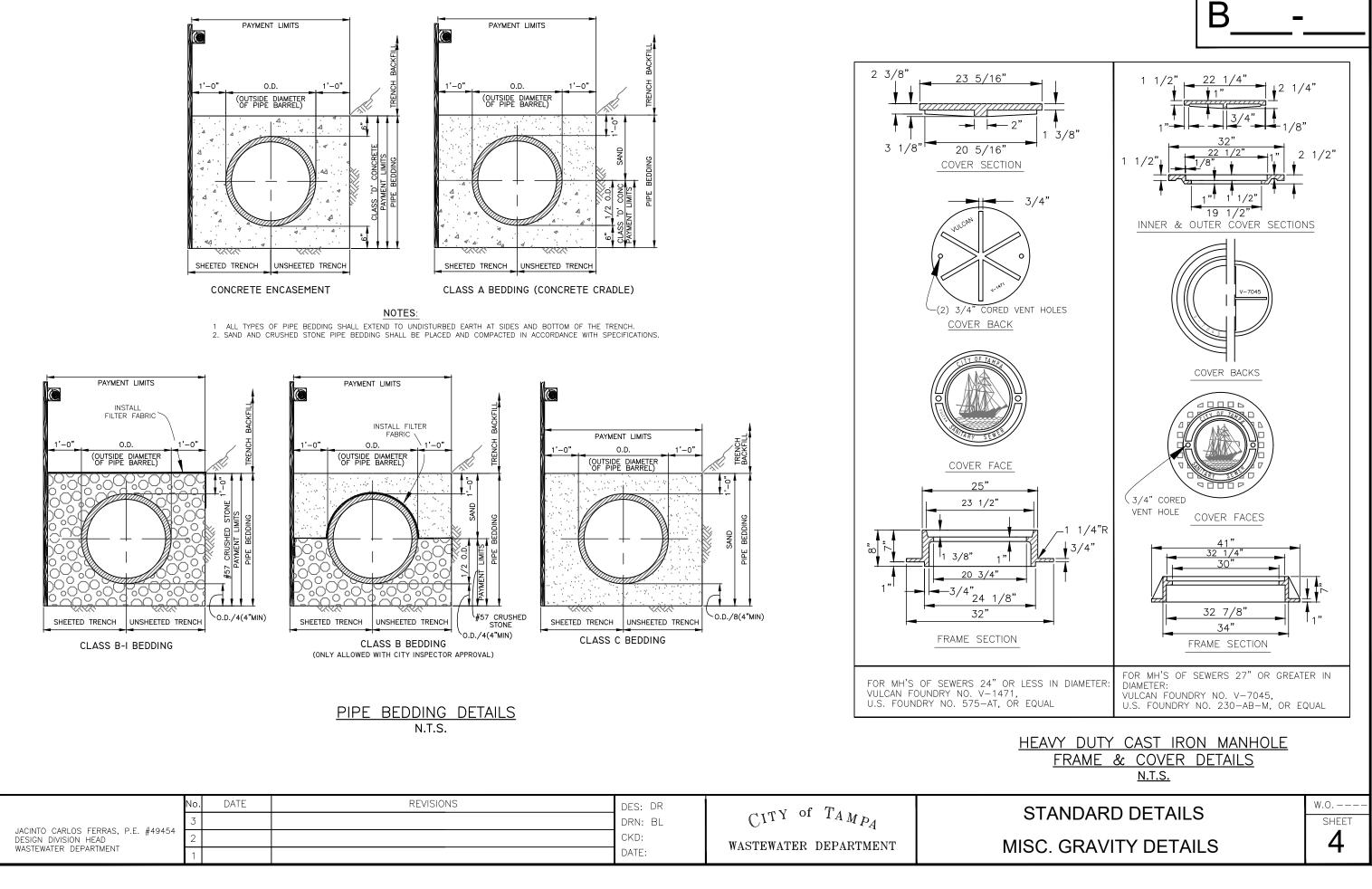
 1
 DATE
 DATE



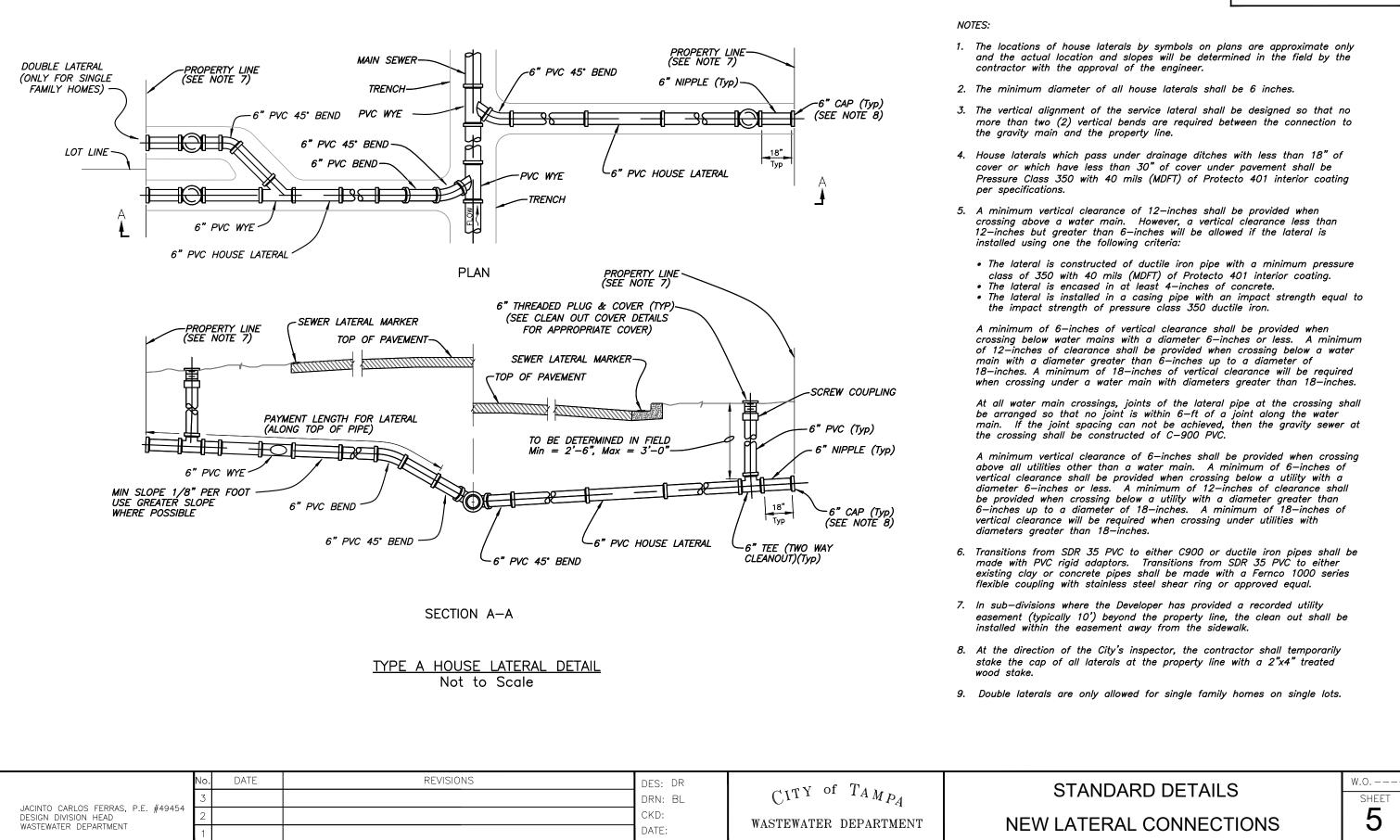
# STANDARD DETAILS MISC. FM DETAILS 2 OF 2

W.O. ---SHEFT



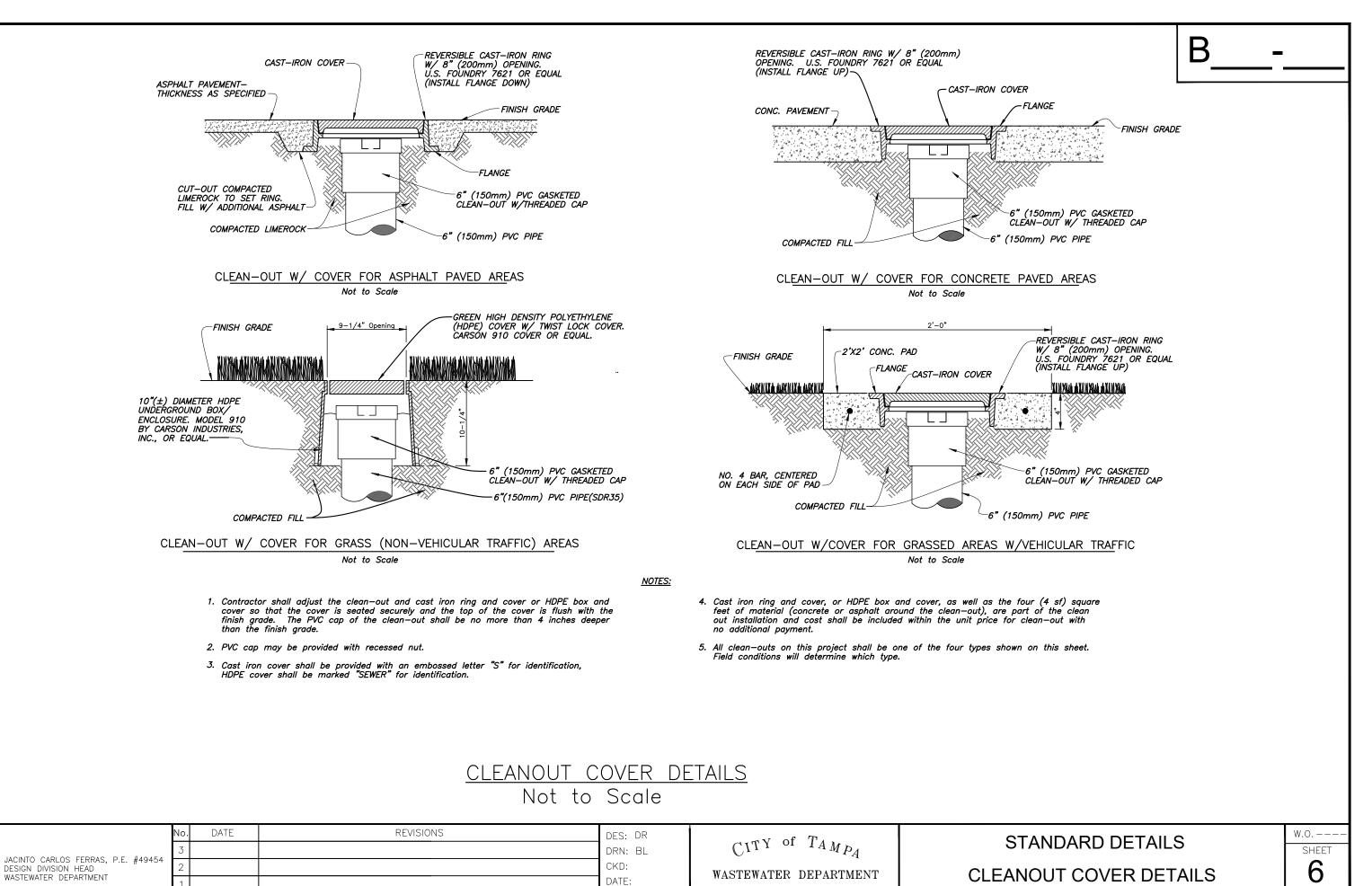


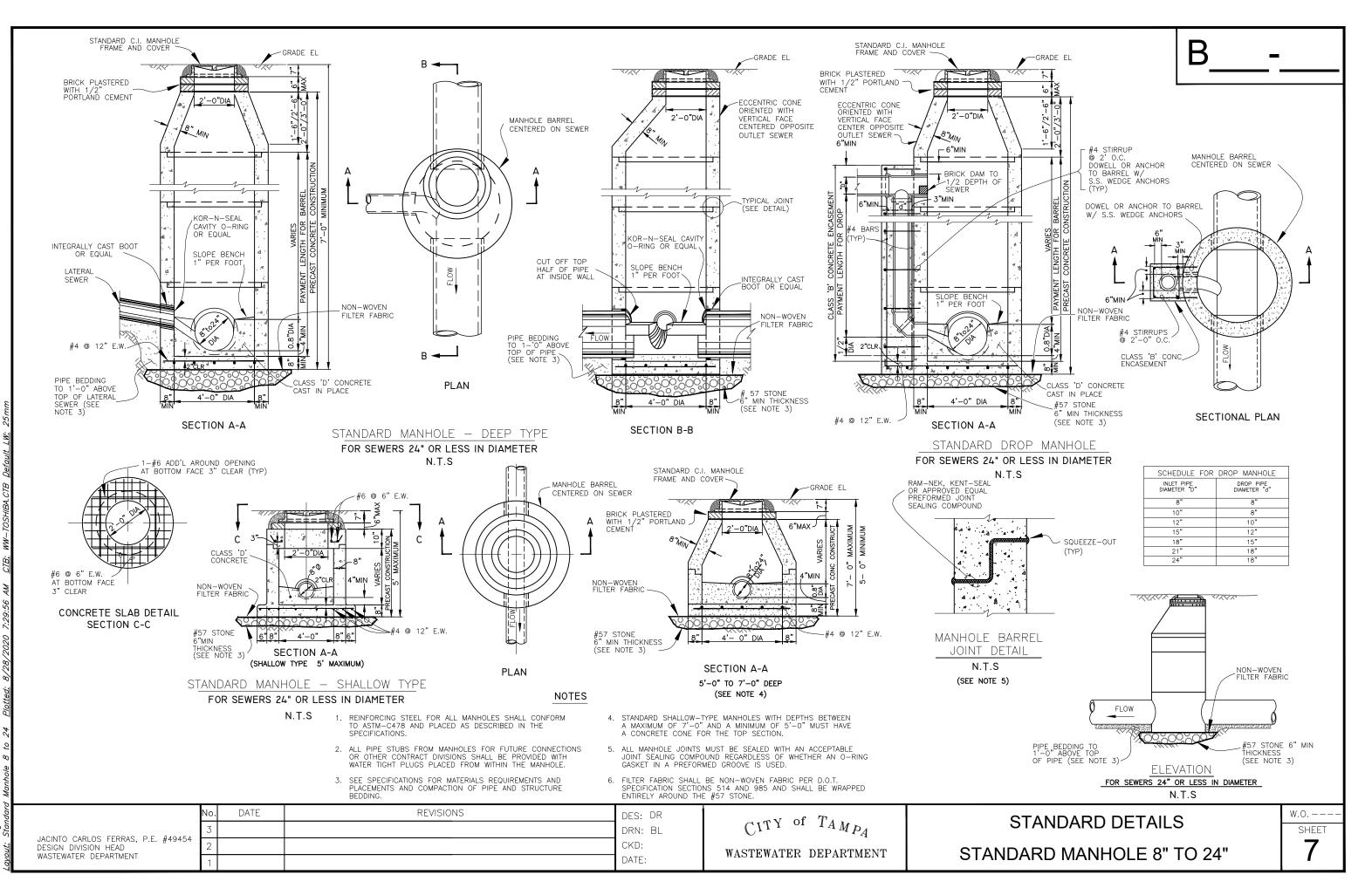
FCH

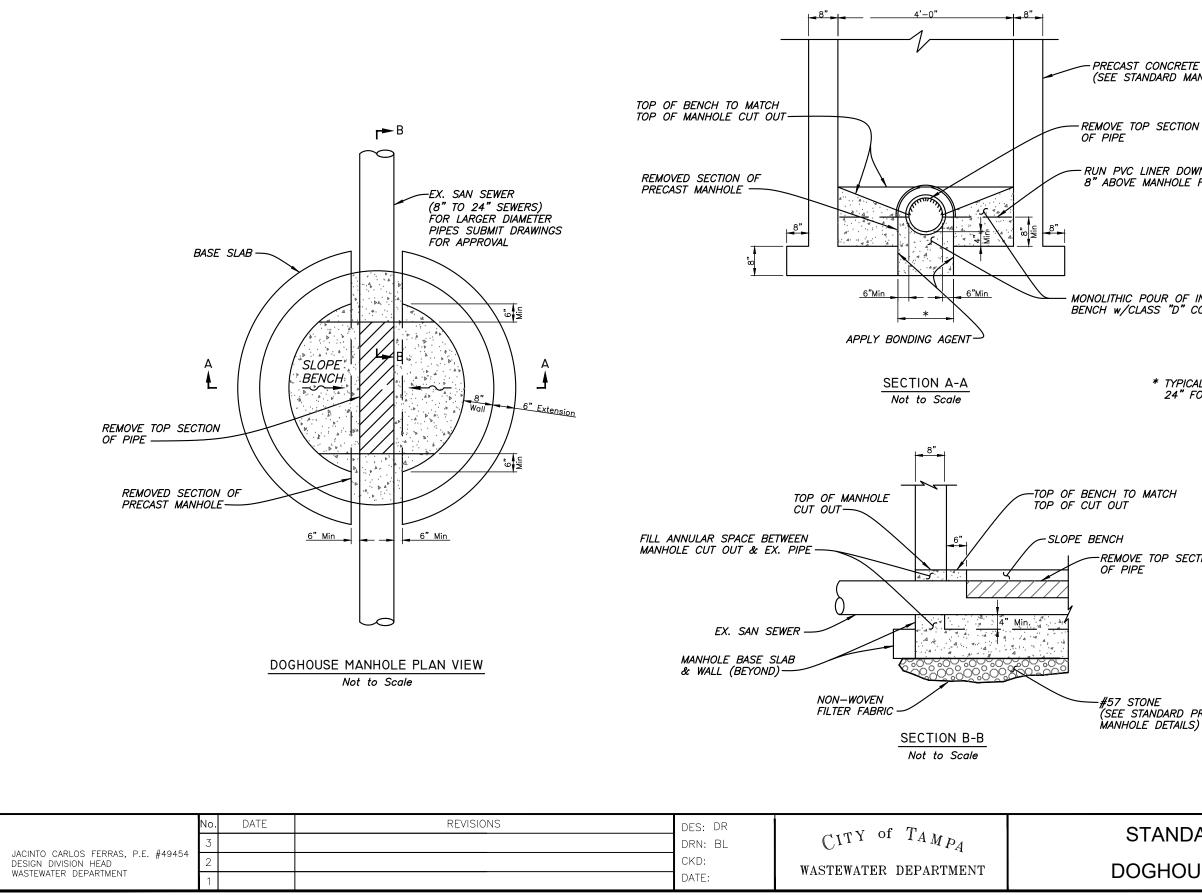


TECH

B







FCH

# STANDARD DETAILS DOGHOUSE MANHOLE



-#57 STONE (SEE STANDARD PRECAST MANHOLE DETAILS)

-REMOVE TOP SECTION OF PIPE

\* TYPICAL WIDTH OF OPENING IS 24" FOR AN EX. 8" PIPE

MONOLITHIC POUR OF INVERT & BENCH w/CLASS "D" CONCRETE

RUN PVC LINER DOWN TO 8" ABOVE MANHOLE FLOOR

(SEE STANDARD MANHOLE DETAILS)

PRECAST CONCRETE MANHOLE

B

### NOTES

1. FIBERGLASS REINFORCED POLYESTER (FRP) MANHOLES SHALL CONFORM TO ASTM D-3753 LATEST EDITION.

- The MANHOLE BOTTOM SHALL BE INTEGRALLY JOINED TO THE BARREL SECTION AND SHALL BE A MINIMUM OF 1/2" THICK. TO ALLOW THE MANHOLE TO BE ANCHORED TO THE PRECAST BOTTOM SLAB.
- THE MANHOLE BOTTOM SHALL EXTEND 3 INCHES BEYOND THE OUTER EDGE OF THE BARREL. 3. FRP MANHOLES SHALL BE ANCHORED TO THE PRECAST CONCRETE BOTTOM SLAB WITH HILTI 316 STAINLESS STEEL KWIK BOLT II WEDGE ANCHORS OR APPROVED EQUAL. THE SIZE, NUMBER OF ANCHORS, EMBEDMENT DEPTH, ETC. SHALL BE AS INDICATED IN TABLE "A" AND SHALL BE BASED ON THE DEPTH OF THE MANHOLE. THE DEPTH OF THE MANHOLE SHALL BE MEASURED FROM THE RIM ELEVATION TO THE BOTTOM OF THE MANHOLE. THE ANCHORS SHALL BE INSTALLED A MINIMUM OF 1-1/2" FROM THE OUTER EDGE OF THE ANCHORING FLANGE AND SHALL BE EQUALLY SPACED AROUND THE CIRCUMFERENCE OF THE MANHOLE.
- 4. SEE SPECIFICATIONS FOR MATERIALS REQUIREMENTS AND PLACEMENTS AND COMPACTION OF PIPE AND STRUCTURE BEDDING.
- 5. ALL PIPE STUBS FROM MANHOLES FOR FUTURE CONNECTIONS OR OTHER CONTRACT DIVISIONS SHALL BE PROVIDED WITH WATERTIGHT PLUGS PLACED FROM WITHIN THE MANHOLE.

TECHNICAL	DATA	FOR	HILTI	316	<i>s.s</i> .	ĸwik	BOLT	"

	ANCHOR BOLT SIZE				
	1/2"	5/8"	3/4"		
MINIMUM PULL-OUT CAPACITY (LBS):	2130	2930	3870		
MINIMUM EMBEDMENT DEPTH (IN):	3 1/2	4	4 3/4		

TABLE "A"

1/2

1/2

3"

MANHOLE ANCHOR DEPTH (FT) SIZE (IN)

10 - 15 5/8

15 - 20 3/4

Him

PIPE CONNECTION DETAIL

SHALL BE MADE WITH "LINK SEAL."

GRAVITY SEWER PIPE CONNECTIONS

SHALL BE MADE WITH "KOR-N-SEAL."

20 - 25 3/4

0 - 5

5 - 10

3"

FRP MANHOLE (SEE SPECIFICATIONS) —

PVC OR DIP PIPE AS SHOWN

FLEXIBLE PIPE CONNECTION KOR-N-SEAL W/ 316 SS CLAMPS (SEE NOTE)

NOTE:

\* ABOVE DATA IS BASED ON 4000 PSI CONCRETE

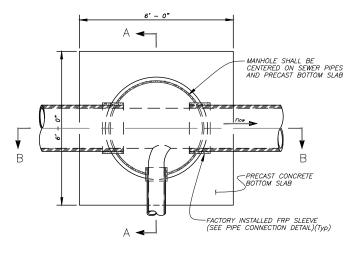
4

6

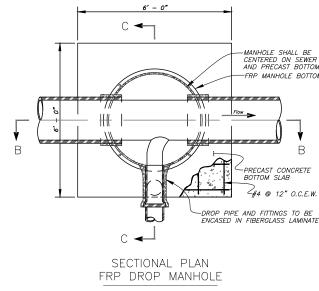
6

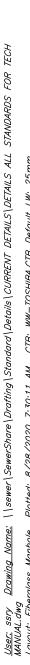
6

8

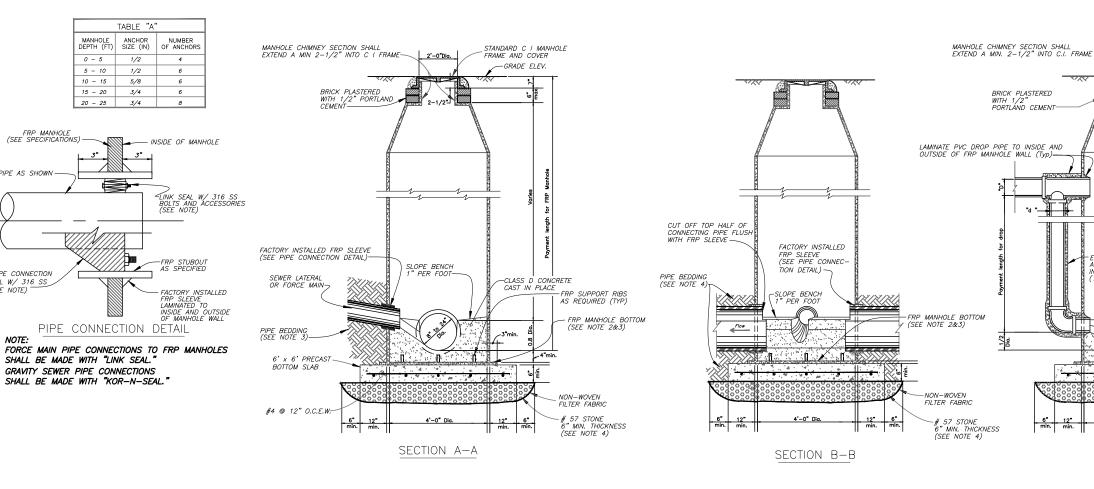


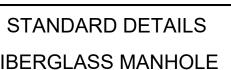
SECTIONAL PLAN

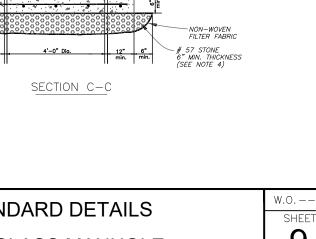




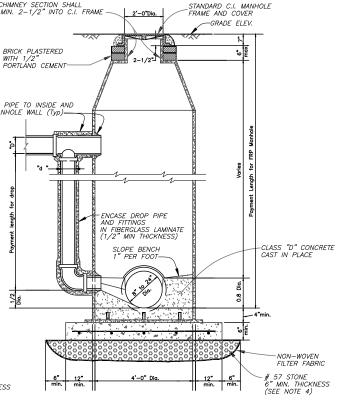
	No.	DATE	REVISIONS	DES: DR	TV of T	c c
	3			DRN: BL	C1TY of $TAMPA$	3
JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD	2			CKD:	WASTEWATER DEPARTMENT	FIB
WASTEWATER DEPARTMENT	1			DATE:	WASTEWATEN DEFANIMENT	







9

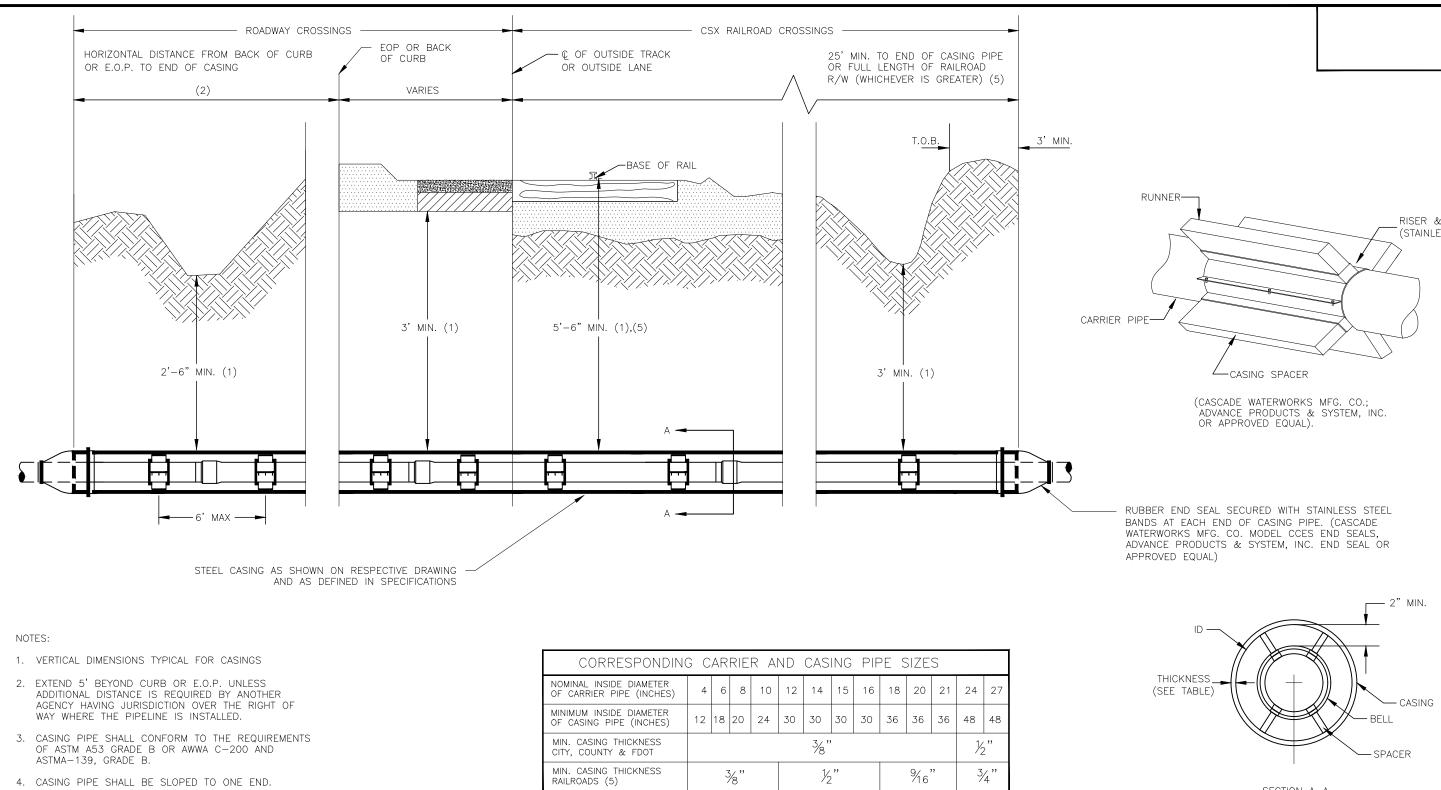


### SCHEDULE FOR DROP MANHOLE INLET PIPE DIAMETER "D" DROP PIPE DIAMETER "d" 8" 8" 10" 8" 12" 10" 15" 12" 18" 15" 21" 18" 24" 18" 27" 18"

B

## --MANHOLE SHALL BE CENTERED ON SEWER PIPES AND PRECAST BOTTOM SLAB -FRP MANHOLE BOTTOM (SEE NOTE 2&3)

B



5. SEE CSX'S DESIGN & CONSTRUCTION STANDARD SPECIFICATIONS FOR PIPELINE OCCUPANCIES FOR MORE DETAILS AND REQUIREMENTS

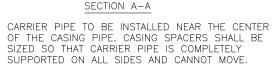
## JACK & BORE DETAILS Not to Scale

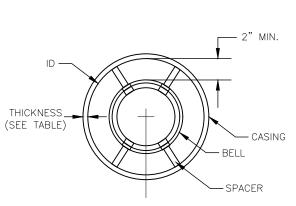
	No.	DATE	REVISIONS	DES: DR	TY of Th	
	3			DRN: BL	CITY OF TAMPA	
JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	2	10/24/13	ADDED WORDING "ASTM A53 GRADE B OR" TO NOTE 3. BL	CKD:	WASTEWATER DEPARTMENT	
	1	10/16/13	REMOVED THE WORD STAINLESS FROM STEEL CASING NOTE. BL	DATE:	WASTEWATEN DEI ANTMENT	

FOR ALL

FCH

## STANDARD DETAILS **JACK & BORE DETAILS**





RISER & SHELL (STAINLESS STEEL)

W.O.--SHEET

10