

GENERAL NUIES	GENERAL	NOTES
---------------	---------	-------

A. TYPICAL PAVEMENT THICKNESS AND STRENGTHS SHALL BE AS FOLLOWS UNLESS SHOWN DIFFERENTLY ON THE CONSTRUCTION PLANS.

> STREET OR THOROUGHFARE TYPE ARTERIAL MAJOR COLLECTOR COLLECTOR RESIDENTIAL



ALL CONCRETE FOR MACHINE FINISHED PAVEMENT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,600 PSI AT 28 DAYS WITH A MINIMUM CEMENT CONTENT OF 470 LB./CY. CONCRETE FOR HAND FINISHED PAVEMENT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS WITH A MINIMUM CEMENT CONTENT OF 517 LB./CY PER N.C.T.C.O.G. SPECIFICATIONS SECTION 303.3.4(A). THE CONTRACTOR SHALL PROVIDE AND UTILIZE MECHANICAL VIBRATORS. ALL PUBLIC STREETS MUST BE MACHINE FINISHED. NO CONCRETE SHALL BE PLACED WHEN CONCRETE TEMPERATURE IS OVER 98 DEGREES FAHRENHEIT. AMBIENT TEMPERATURE MUST BE 35 DEGREES FAHRENHEIT AND RISING TO POUR AND MUST STOP AT 40 DEGREES FAHRENHEIT AND FALLING PER N.C.T.C.O.G. SECTION 303.5.5.

- B. REINFORCED CONCRETE PAVEMENTS:
 - 1. ALL CURBS SHALL BE PLACED INTEGRAL WITH PAVEMENT.
 - 2. CURBS SHALL MEET THE SAME STRENGTH AS SPECIFIED FOR THE CONCRETE PAVEMENT. 3. DETAIL AND ARRANGEMENT OF JOINTS, ALL TYPES, SHALL BE AS SHOWN ON
 - SHEET SD-3 OF THE STANDARD CONSTRUCTION DETAILS.
 - 4. BAR LAPS SHALL BE 30 DIAMETERS. (12" MINIMUM).
- C. SUBGRADE UNDER ALL PAVEMENT SHALL BE A MINIMUM OF 6 INCHES THICK AND SHALL BE STABILIZED WITH HYDRATED LIME OR CEMENT (EXTENDING 12 INCHES BEYOND BACK OF CURB), AND COMPACTED TO A DENSITY NOT LESS THAN 95 PERCENT STANDARD PROCTOR DENSITY. LABORATORY TESTS MUST BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL TO DETERMINE AMOUNT OF LIME OR CEMENT REQUIRED FOR STABILIZATION.

APPLICATION RATE IS 32#/SY MINIMUM OR THAT SPECIFIED IN A GEOTECHNICAL REPORT. THE FINAL ACCEPTANCE OF THE SUBGRADE TREATMENT WILL BE AT THE DISCRETION OF THE CITY ENGINEER.

- D. BAR CHAIRS OR AN APPROVED SUPPORTING DEVICE SHALL BE FURNISHED BY CONTRACTOR.
- E. CROSS SLOPE SHALL BE 1/4" PER FOOT UNLESS APPROVED BY THE CITY ENGINEER.
- F. ALL MEDIANS & PARKWAYS SHALL BE SEEDED OR SODDED WITH BERMUDA GRASS OR RYE GRASS, DEPENDING ON THE TIME OF YEAR. ONE (1) STRIP OF GRASS (1' WIDE MIN.) BEHIND CONCRETE PAVEMENT MUST BE USED WITH ANY VEGETATION RE-ESTABLISHMENT. CONTRACTOR SHALL KEEP NEW GRASS IRRIGATED TO FACILITATE PROPER ROOT DEVELOPMENT.
- G. 1. 2-2" PVC CONDUITS TO BE INSTALLED CONTINUOUS ACROSS EACH LEG OF AN INTERSECTION, EXTENDING TO 18" BEHIND CURBS. 2. THE EXACT LOCATIONS WHERE THE CONDUIT CROSSES UNDER THE PAVING ARE TO BE CHISELED
- WITH AN "X" ON THE CURB OR PAVING. LOCATION TIES SHALL BE RECORDED AND SUBMITTED TO THE CITY ENGINEER. 3. A NYLON CORD SHALL BE PLACED IN ALL CONDUIT. THIS CORD SHALL EXTEND A MINIMUM OF
- 1-FOOT FROM THE END OF THE CONDUIT INTO THE PULL-BOX.
- H. ALL LEFT-TURN STORAGE AREAS SHALL TYPICALLY BE 60'. STORAGE REQUIREMENTS SHALL FOLLOW CITY OF DESOTO PAVING STANDARDS AND/OR AS DIRECTED BY THE CITY ENGINEER, UNLESS SHOWN OTHERWISE ON THE PLANS.
- I. REBAR IS TO BE U.S. MANUFACTURED ONLY AND APPROVED BY THE CITY OF DESOTO.
- J. USE OF FLY ASH IS NOT RECOMMENDED. IF REQUESTED BY CONTRACTOR, REQUEST MUST BE SUBMITTED TO THE CITY ENGINEER IN WRITING PRIOR TO USE. USE OF FLY ASH, IF APPROVED BY THE CITY ENGINEER MAY BE SUBJECT TO SPECIAL MONITORING AND INSPECTION OF THE WORK. REQUEST MUST MEET N.C.T.C.O.G. STANDARD 303.2.4 WITH A MAXIMUM OF 25 PERCENT REDUCTION BY WEIGHT PER CUBIC YARD OF CONCRETE.
- K. ALL MONOLITHIC CURBS MUST HAVE REBAR.
- L. DOWEL (SEE SD-6)

	NO.	R	EVISION	BY	DATE
	CERTI	FICATION: <u>CITY OF DES</u> IS AUTHORI SEAL APPEA THAT THE D FROM THAT	SOTO STANDARD CONSTRUCTI ZED FOR USE IN THIS PROJEC RS ON THIS SHEET. THIS ENG ETAIL AND NOTES ON THIS SH RECEIVED FROM THE CITY OF	ON DETAIL SHE T BY THE ENGI INEER IS ALSO IEET HAVE NOT DESOTO.	EET NEER WHOSE CERTIFYING BEEN ALTERED
		STANDARD	CONSTRUCTIO	N DET	AILS
LERING		CITY DE ENG	OF DESOTO, T VELOPMENT SERVIC INEERING DEPARTM	EXAS CES IENT	
ACINGLAT			PAVING		
Ŵ	DATE	E: APRIL, 2016		SHEET:	SD-1





- H. REBAR IS TO BE U.S. MANUFACTURED ONLY AND APPROVED BY THE CITY OF DESOTO.
- USE OF FLY ASH IS NOT RECOMMENDED. IF REQUESTED BY CONTRACTOR, REQUEST MUST BE SUBMITTED TO THE CITY ENGINEER IN WRITING PRIOR TO USE. USE OF FLY ASH, IF APPROVED BY THE CITY ENGINEER MAY BE SUBJECT TO SPECIAL MONITORING AND INSPECTION OF THE WORK. REQUEST MUST MEET N.C.T.C.O.G. STANDARD 303.2.4 WITH A MAXIMUM OF 25 PERCENT REDUCTION BY WEIGHT PER CUBIC YARD OF CONCRETE.
- K. ALL MONOLITHIC CURBS MUST HAVE REBAR.

	2	CONCRETE FINISH REQU	IREMENTS TO NCTCOG	STANDARE	os	JC	6/5/20
	1	MODIFICATION TO		JC	6/1/20		
	NO.	R	EVISION			ΒY	DATE
	CERTI	FICATION: <u>CITY OF DES</u> IS AUTHORI SEAL APPEA THAT THE DI FROM THAT	SOTO STANDARD CO ZED FOR USE IN THI RS ON THIS SHEET. ETAIL AND NOTES O RECEIVED FROM TH	NSTRUCTI IS PROJEC THIS ENG N THIS SH E CITY OF	ION DETA T BY THE INEER IS IEET HAV DESOTO	AIL SHI E ENGI ALSO E NOT	ET NEER WHOSE CERTIFYING BEEN ALTERED
		STANDARD	CONSTRU	ІСТІО	N [DET	AILS
FERNC		CITY DE ENG	OF DESOT VELOPMENT INEERING DE	TO, T SERVIC PARTM	EXAS CES IENT		
NOWSFAL			PAVIN	G			
¢	DATE	: APRIL, 2016			SHEET	:	SD-2







GENERAL NOTES

1. BRICK PAVERS MUST INCLUDE CONCRETE LINER.

	NO.	R	evisio	N			B	Ý	D.	ATE
	CERTI	FICATION: <u>CITY OF DES</u> IS AUTHORI SEAL APPEA THAT THE D FROM THAT	SOTO STA ZED FOR RS ON TI ETAIL AN RECEIVE	NDARD (USE IN T HIS SHEE ID NOTES D FROM 1	CONSTRU THIS PRO T. THIS ON THI THE CITY	UCTION DJECT I ENGIN S SHEE Y OF DE	N DETAI BY THE I EER IS A T HAVE SOTO.	<u>L SHE</u> ENGII ALSO NOT	ET NEER V CERTI BEEN	WHOSE FYING ALTERED
		STANDARD	СО	NSTR	UCT	ION	D	ET.	AIL	S
CERING		CITY DE ENG	OF VELOF INEER	DES(PMENT ING D	DTO, SER EPAR	TEX VICE TME	KAS S NT			
ACHE AL			Ν	IEDIA	NS					
\checkmark	DATE	E: APRIL, 2016				S	HEET:		SD-	-4



GENERAL NOTES FOR CURB RAMPS

- 1. ALL CURB RAMPS SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE CURRENT EDITION OF TXDOT'S STANDARD DETAILS FOR PEDESTRIAN FACILITIES CURB RAMPS.
- 2. ANY GENERAL NOTES FOR CURB RAMPS PROVIDED ON THIS STANDARD DETAIL SHALL SUPERSEDE THE TXDOT STANDARD DETAILS FOR CURB RAMPS.
- SEPARATE CURB AND RAMP LANDING FROM ADJACENT SIDEWALK AND ANY OTHER ELEMENTS WITH PRE-MOLD OR BOARD JOINT OF 3/4" UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER.
- 4. FLARE SLOPE SHALL NOT EXCEED 8% MEASURED ALONG CURB LINE.
- 5. DETECTABLE WARNING FEATURES SHALL BE BRICK RED IN COLOR AS MANUFACTURED BY ARMOR-TILE
- OR A CITY-APPROVED EQUAL. AS A GENERAL RULE, BRICK PAVERS WILL NOT BE PERMITTED.
- 6. DETECTABLE WARNING SURFACES MUST NOT ALLOW WATER TO ACCUMULATE.
- 7. TO SERVE A PEDESTRIAN REFUGE AREA, THE MEDIAN SHOULD BE A MINIMUM OF 5' WIDE. MEDIANS SHOULD BE DESIGNED TO PROVIDE ACCESSIBLE PASSAGE OVER OR THROUGH THEM.
- 8. PRIOR TO POURING ANY CURB RAMP, CONTRACTOR SHALL FORM THE RAMP, THEN INFORM THE ENGINEER SO THAT THE ENGINEER CAN INSPECT THE RAMP. NO CURB RAMPS SHALL BE POURED WITHOUT FIRST BEING INSPECTED BY THE ENGINEER. THE ENGINEER'S CONCURRENCE WITH THE RAMP LAYOUT DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO CONSTRUCT RAMPS IN ACCORDANCE WITH ADA STANDARDS.



STREET CLASSIFICATION	SIDEWALK WIDTH
ARTERIAL	6'
MAJOR COLLECTOR	6'
COLLECTOR	5'
RESIDENTIAL	5'

STANDARD WDTHS



REMOVAL AREA FOR CONSTRUCTION OF A BARRIER FREE RAMP

SIDEWALK GENERAL NOTES

- 1. ALL PEDESTRIAN SIDEWALKS MUST BE DESIGNED TO MEET TAS/ADA/TDLR REQUIREMENTS.
- 2. GRADE OF ANY INTERSECTING DRIVE FROM GUTTER LINE OF STREET TO PROPERTY LINE SHALL NOT EXCEED 8%
- 3. SIDEWALKS CROSSING STEEP DRIVEWAYS MUST HAVE 2% CROSS-SLOPE BREAK IN DRIVE.
- 4. MINIMUM 2" GRADED CUSHION SAND REQUIRED ON ROCK OR CLAY SUBGRADE.
- 5. SIDEWALK SHALL BE MONOLITHICALLY EXTENDED A MINIMUM OF 1-2 PANELS BEYOND THE LIMITS OF BARRIER-FREE RAMPS.
- 6. CONCRETE FOR SIDEWALK SHALL BE A MINIMUM OF 4 INCHES THICK, CLASS "A", CONTAINING A MINIMUM OF 470 POUNDS OF TYPE 1 CEMENT PER CUBIC YARD AND MEETING A MINIMUM STRENGTH OF 3,000 PSI WHEN TESTED AT 28 DAYS. AGGREGATE SHALL BE 100% CRUSHED ANGULAR STONE (1" MAX.) ALL CONCRETE PLACED SHALL CONTAIN SUFFICIENT AIR ENTRAINING AGENT TO YIELD 5% AIR CONTENT. FINE AGGREGATE SHALL NOT EXCEED 50% MANUFACTURED SAND.
- 7. ALL REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM-615, GRADE 60. WHEN REINFORCING BARS ARE SPLICED, A 30 DIAMETER LAP SHALL BE USED.
- 8. SIDEWALK SUBGRADE SHALL CONSIST OF NATIVE SOIL OR SAND COMPACTED TO A DENSITY NOT LESS THAN 95% ASTM D69 OPTIMUM MOISTURE CONTENT OR ABOVE.
- 9. SIDEWALKS SHALL BE FINISHED BY LIGHTLY BROOMING SURFACE TRANSVERSE TO DIRECTION OF TRAFFIC.
- 10. AN APPROVED WHITE PIGMENTED CURING COMPOUND SHALL BE APPLIED TO THE SURFACE OF THE PAVEMENT AS SOON AS IT HAS BEEN PLACED AND FINISHED.

3.	DETAIL SH	HEET REVISIONS		JC	02/20
2.	DETAIL SH	EETS REVISIONS		JC	10/15
1.	DETECTABLE WARN	NING FEATURES AND	RAMPS	JC	9/30/09
NO.	RE	EVISION		ΒY	DATE
	CITY DE' EI	OF DESOTO, VELOPMENT SERV NGINEERING DIVISI	TEXAS ICES ION	5	
	STANDARD	CONSTRUCTIO	ON	DET	AILS
	SI	DEWALK DETAI	LS		
API	PROVED				
DATE	E: FEBRUARY, 2020		SHEE	т:	SD-6





TYPE A & TYPE B STORM DRAINAGE MANHOLE

- NOTE: 1. MAXIMUM PIPE SIZE TO BE USED 78". PIPE SIZE IN EXCESS OF 78" SHALL HAVE A JUNCTION STRUCTURE DESIGNED AND SUBMITTED TO THE CITY FOR
 - 2. MANHOLE RING AND COVER SHALL BE BASS & HAYS FOUNDRY, INC. MODEL NO. VRM30 WITH CITY LOGO. IF MANHOLE IS LOCATED WITHIN AN AREA SUBJECT TO CONCENTRATED STORM WATER FLOWS, THE MANHOLE SHALL HAVE A WATER-TIGHT RIM. ALL MANHOLE COVERS SHALL HAVE THE







	FROM THAT	RECEIVED FROM THE CITY OF	DESOTO.
	STANDARD	CONSTRUCTIO	N DETAIL
EERING	CITY DE ENG	OF DESOTO, T VELOPMENT SERVIC INEERING DEPARTM	EXAS ÆS ENT
NCIN'S AT	S	TORM DRAINAG	E
\checkmark	DATE: APRIL, 2016		sheet: SD-



	RE	INFOF	RCING	STEE	L SCH	EDULE		
	DIMENSI	ONS SH	own ar	E FOR	MAXIMUM	SIZE IN	ILETS	
C B A	INLET	BAR	BAR DIA.	NO.	BAR	DIMENS	IONS	
BAR M			(1/8IN.)	REQD	A	B	С	
	4	A B	3	6	3-2 2'-10"	<u> </u>	_	
		C	4	15	4'-8"	0'-6"	_	
		D	4	5	4'-8"	_	_	
C A A		F G	4	5	3'-2'' 2'-0"	 1'3"	_	
BAR N		Н	3	3	*	*	*	
		N	3	3	3'-2"	3'-2"	3'-2"	
	6	A	3	9	3'-2" 4'-10"	0'-3"	_	
		C	4	15	6'-8"	0'-6"	_	
		D	4	5	4'-8"	_	_	
		F	4	5	3'-2'' 2'-0"	- 1'_3"	_	
		H	3	3	*	*	*	
		N	3	3	3'-2"	3'-2"	3'-2"	
	8	A	3	12	3'-2"	0'-3"	_	
		C B	3	15	8'-8"	0'-6"	_	
		D	4	5	4'-8"	_	_	
		F	4	1	3'-2"		_	
		G Ц	3	5 4	2 [′] -0"	1'-3"	*	
		N N	3	3	3'-2"	3'-2"	3'-2"	
	10	A	3	10	3'-2"	0'-3"	_	
		B	3	2	8'-10"		_	
			4	4	4'-8"	0-0	_	
		E	5	6	10'-8"	_	_	
		G	3	5	2'-0"	1'-3"	- *	
			4	8	4'-8"	3'-2"	3'-2"	
		L	4	5	4'-3"	_	_	
	12	A	3	12	3'-2" 10'-10"	0'-3"	_	
		C	4	16	12'-8"	0'-6"	_	
		D	4	4	4'-8"	_	_	
		E	5	6	12'-8"		_	
		6	5		2 =0	1 - 0		
		H	3	18	*	*	*	
		J	4	9	4 - 8 3'-2"	<u> </u>	3-2	
		K	4	5	2'-3"	_	_	
			4	5	4'-3"	-		
	14	A M	5	9	4 - 3 3' - 2"	3-2 0'-3"	3-9	
		B	3	2	 10'-10"	_	_	
		C	4	16	14'-8"	0'-6"	_	
		L D E	<u>4</u> 5	4 6	4 -8 14'-8"		_	
		G	3	5	2'-0"	1'-3"	_	
			3	21	*	* 	*	
		l l J	4	9	<u>4 -8</u> <u>3'-2"</u>	<u> </u>	<u>3-2</u>	
<u>+</u>		K	4	5	2'-3"	_	_	
			4	5	4'-3"			
	* SFF DI		5 FOR DIM		4 - 3	3-2	3-9	
MAX								
, t 	-							
JAL			TION: <u>CITY</u>		O STANDARD	CONSTRUC	TION DETA	IL SHEET
UN			IS AU SEAL THAT	THORIZED	FOR USE IN ON THIS SHE IL AND NOTE	THIS PROJ ET. THIS EN S ON THIS S	ECT BY THE IGINEER IS SHEET HAV	ENGINEER WHOSE ALSO CERTIFYING E NOT BEEN ALTERED
			FROM	THAT REC	EIVED FROM	THE CITY C	OF DESOTO.	
		ST	ANDA	RD (CONST	RUCTIO	DN C	ETAILS
	<u>ر</u> م		(OF DES	SOTO,	TEXAS	
	ERIN			ENGINE	EERING I	I SERV DEPART	MENT	
	CUREAN			STC	DRM DI	RAINA	GE	
		DATE: AF	PRIL, 2016				SHEET:	SD-9

Т	W
7"	2'-0"
7"	4'-0"
8"	5'-0"
9"	6'-0"
9"	7'-0"
9"	8'-0"
	T 7" 7" 8" 9" 9" 9"

FOR LOWER PORTION OF 2' SQUARE DROP INLET USE REINF. STEEL DETAILS OF 4' SQUARE MANHOLE AND ELIMINATE INLET RING AND COVER.

STANDARD TYPE 'Y' INLET

GENERAL NOTES:

- 1. MATERIALS AND WORKMANSHIP SHALL CONFORM WITH THE REQUIREMENTS OF THE SPECIFICATIONS FOR CONCRETE MANHOLES.
- 2. LAYERS OF REINFORCING STEEL NEAREST THE INTERIOR AND EXTERIOR SURFACES SHALL HAVE A COVER OF 2" TO THE CENTER OF BARS, UNLESS OTHERWISE NOTED.
- 3. DEPTH OF DROP INLET FROM FINISHED GRADE TO FLOW LINE OF INLET IS VARIABLE. APPROXIMATE DEPTH WILL BE SHOWN ON PLANS AT LOCATION OF INLET.
- 4. ALL STANDARD DROP INLETS SHALL HAVE ONE OPENING ON EACH SIDE UNLESS SHOWN ON PLANS.

	NO.	R	EVISION	BY	DATE
	CERTI	FICATION: <u>CITY OF DES</u> IS AUTHORI SEAL APPEA THAT THE D FROM THAT	SOTO STANDARD CONSTRUCT ZED FOR USE IN THIS PROJEC RS ON THIS SHEET. THIS ENG ETAIL AND NOTES ON THIS SH RECEIVED FROM THE CITY OF	ION DETAIL SH T BY THE ENGI INEER IS ALSO IEET HAVE NOT DESOTO.	<u>EET</u> NEER WHOSE CERTIFYING BEEN ALTERED
		STANDARD	CONSTRUCTIO	N DET	AILS
CERING		CITY DE ENG	OF DESOTO, T VELOPMENT SERVIO INEERING DEPARTM	EXAS CES IENT	
NON ST AN		S	TORM DRAINAG	ε	
\sim	DAT	E: APRIL, 2016		SHEET:	SD-11

2"	1 50	2.00	5.00		2 25	5 00	0.30	2.00		0.20	2.20	8 00	0.50	
∠" 6"	2.00	2.20	6.30	0.45	2.50	8.00	0.45	2.80	8.00	0.60	3.75	14.10	1.00	l
0"	2.00	2.75	7.80	0.60	2.75	12.50	0.60	3.50	12.50	0.90	4.75	22.60	1.70	I
4"	2.00	3.10	9.30	0.75	3.20	18.20	0.80	4.30	18.20	1.40	5.75	33.00	2.45	ı
0"	2.50	3.50	12.30	1.10	3.80	27.00	1.30	5.20	27.00	2.50	6.80	46.00	3.40	ı
6"	2.50	3.90	15.40	1.50	4.50	40.00	1.90	6.30	40.00	3.70	7.90	63.00	5.10	ı
-2"	3.00	4.30	18.50	2.00	5.25	55.00	3.00	7.40	55.00	5.10	9.00	81.00	7.90	1
.8″	3.00	4.70	21.80	2.50	6.00	72.00	4.00	8.50	72.00	6.70	10.80	116.00	10.40	I
4	4.00	5.00	25.00	3.70	6.75	92.00	6.70	9.60	92.00	10.00	13.00	169.00	16.00	1
NO	res:													
1.	DIMEN	SION ">	K"MAY	VARY I	F NECE	SSARY	TO PRO	VIDE BE	ARING	AGAINST	r undis	TURBED	TRENC	-
_														

		STANDARD	CONSTRUCTION	DETAILS
--	--	----------	--------------	---------

CITY	OF	DE	SOT	О,	ΤE>	KAS
DEV	/ELOF	PMEN	1T :	SER	VICE	S
ENGI	NEER	ING	DEI	PAR	TME	NT

SD-14

	METERVA	ULT AND BY-I	PASS SPECIFIC	ATIONS
	1. NOTIFY THE VAULT.	UTILITY OPERATIONS DEPA	ARTMENT PRIOR TO CONS	STRUCTION OF
	2. THE METER CONCRETE S	VAULT CAN BE EITHER PO Shall BE 6" Thick and E 2" centers fach way	DURED IN PLACE OR PRE BE 3,000 P.S.I. WITH #4	FABRICATED. REINFORCEMENT
	3. THE VAULT LOCATED IN	WILL NOT BE PUT IN ANY A UTILITY EASEMENT.	DRIVE OR PARKING ARE	AS AND MUST BE
INDICATING:	4. A DRAWING BY-PASS W	WITH THE EXACT MEASUR	EMENTS OF THE METER ' E ENGINEERING DIVISION F	VAULT AND FOR APPROVAL FOR
EQUIP. CO. - 8041 BP-CH	5. THE VAULT	3" AND LARGER. LID SHALL BE A BILCO LII ME IS 1/4" STEEL WITH ST	D, TYPE K-5 SINGLE LEA TRAP ANCHORS BOI TED	AF DESIGN. TO THE EXTERIOR
FACTURED	THE LEAF IS FOR EASY (SQUARE FO	S 1/4" STEEL DIAMOND P. DPERATION. THE MINIMUM OT. THE SIZE OF THE LIE	ATTERN PLAT, PIVOTING I LIVE LOAD CAPACITY IS D IS 3'-6" X 3'-6" ALUI	ON TORSION BARS 5 150 LBS. PER MINUM. LARGER
	VAULTS WILL 6. THE BOTTOM ON 12" CEN	_ REQUIRE BILCO DOUBLE OF THE METER VAULT MU ITERS AND HAVE A 4" FIL	DOORS AS SPECIFIED BY JST BE 6" THICK CONCRI L SAND CUSHION UNDER	Y THE ENGINEER. ETE WITH #4 REBAR RNEATH. A SUMP 4"
ALL-THREAD	DEEP AND OF THE BO BOTTOM, A	12" IN DIAMETER SHALL E TTOM SLAB. IF PRECAST LAYER OF RAM—NEK SHA	BE INSTALLED TO ONE SII VAULT IS USED, WHERE ALL BE USED TO SEAL TH	DE OF THE CENTER SIDES JOIN THE HE JOINT.
KUD (TTP.)	7. DEPTH OF V	AULT SHALL BE A MINIMU	JM OF 4-1/2 FEET.	
	NOTES:	IMERING VALUET WALLS WIL	I NOT BE PERMITTED	
CTOR METER F VALVES &				
PREVENTER				
0 0				
0				
0				
NG INSERIS				
GRADE TO DRAIN AWAY	(ALL SIDES)			
ALED WITH SEALANT				
IRON B-OUT				
– NGE				
embled in vault & hvdrostaticallv				
ation & preparation shall be nd fittings of the assembly shall Ilowing associations:		NO. R CERTIFICATION: CITY OF DESTINATION: IS AUTHORING	EVISION soto standard construct ized for use in this proje	BY DATE TION DETAIL SHEET CT BY THE ENGINEER WHOSE
RICAN SOCIAL OF FM		SEAL APPEA THAT THE D FROM THAT	ARS ON THIS SHEET. THIS EN ETAIL AND NOTES ON THIS S RECEIVED FROM THE CITY O	GINEER IS ALSO CERTIFYING SHEET HAVE NOT BEEN ALTERED F DESOTO.
		STANDARD	CONSTRUCTIO	ON DETAILS
	., ₁ C	CITY DE	OF DESOTO, VELOPMENT SERVI	TEXAS CES
	NY A	ENG		MENT
	ENO. Gr	DATE: APRIL, 2016		SHEET: SD-15
	1		1	

V R M SER	RIES RING	& SOLID C	OVER					
	LID				RING			
PATTERN	А	В	WEIGHT	С	D	Н	WEIGHT	
VRM 30	32	1-1/2	210 LBS.	30-3/8	40-1/4	5	245 LBS.	455 LBS.
V R M SERIES RING & GRATE								
		GRATE			RIN	G		SET WT.
PATTERN	А	В	WEIGHT	С	D	Н	WEIGHT	
VRM 30	32	1-1/2	190 LBS.	30-3/8	40-1/4	5	245 LBS.	435 LBS.

STANDARD MANHOLE FRAME & COVER

	REMOVE PORTION OF PIPE TO CONNECT AS ALL INCOMING SERVI 2 FT. ABOVE FLOW I REQUIRE THE USAGE A DROP MANHOLE. CLAS MONO WEIR (SEE DETAIL) WEIR (SEE DETAIL) ELEVATION	DROP S SHOWN CES LINE OF S F CONCRETE DLITHIC POUR P.V.C. PIPE GROUTED TO MA PVC 90' BEND GROUT V	ETAIL BOLTS AINLESS STEEL RILLED AND NHOLE WALL P	LAN	
		UKUP MANH(
		GENERAL NOTE	-S		
 SANITARY THAN 10' UNLESS I SANITARY ALL SANI' INSTALLE 6" OR LA OF 1/8 II UNLESS O STANDAR DROP MA 18" DIAM THE LOCA ALLEY CU SPACING DESIGN M MANHOLES NO SEWER ALL MANH MANHOLES 	SEWER PIPE MAINS LES DEPTH SHALL BE PVC DIRECTED OTHERWISE BY SEWER PIPE JOINTS SH TARY SEWER LATERALS D AT THE CENTER OF E ARGER LATERALS REQUIR NCH PER FOOT. THERWISE NOTED, ALL M D SPECIFICATIONS, INCL NHOLE REQUIRED FOR CO TETER OR LARGER PIPE. ATION OF ALL MANHOLES JRB, AS DIRECTED BY T OF MANHOLES AND CLE MANUAL OR AS DIRECTED S CONSTRUCTED IN LOC R SERVICE LINE CONNEC HOLES REQUIRE STAINLES S.	S THAN 10' DEPTH SHALL SDR-26 PIPE. LATERALS THE CITY ENGINEER. HALL CONFORM TO CURREN SHALL INCLUDE 4" TEE, W ACH LOT, UNLESS OTHER' RE M.H. AT MAIN SEWER F MATERIAL AND CONSTRUC UDING TESTING AND VIDEO CONNECTIONS GREATER TH S, CLEANOUTS, AND SERVI HE CITY ENGINEER. ANOUTS SHALL BE AS SP D BY THE CITY ENGINEER. ATIONS SHALL BE CONSTRU STIONS SHALL BE CONSTRU SS STEEL RAIN STOP.	BE PVC SDR-35 PIPE. S SHALL BE PVC SDR-26 F NT ASTM DESIGNATIONS F VYE BEND, PIPE, AND STC WISE INDICATED ON PLANS PIPE. LATERALS SHALL HA TION SHALL CONFORM TO D INSPECTION OF ALL SEV AN 2' HEIGHT FROM MAIN CES SHALL BE MARKED C ECIFIED IN THE CITY OF E MERSION, SHALL BE VRM- JCTED DEEPER THAN 12 F	SEWER PIPE GREAT PIPE GREEN IN COL OR PVC PIPE. PPER S. VE A MIN. SLOPE THE /ER LINES. FLOWLINE TO ON THE STREET OF DESOTO WATER UTH 30 WATER TIGHT TEET.	ER _OR.
X4 KEYWAY. ROUGHEN TO MAKING SECOND POUR HEAVY DUTY PVC AT ALL CONST. JOINTS	ENGNEERING	NO. CERTIFICATION: CITY OF DE IS AUTHORI SEAL APPEA THAT THE D FROM THAT STANDARD CITY DE ENG	REVISION SOTO STANDARD CONSTRUCT IZED FOR USE IN THIS PROJEC ARS ON THIS SHEET. THIS ENG THE SHEET. THIS ENG THE SHEET. THIS ENG THE SHEET. THIS ENG THE SHEET. THIS ENG CONSTRUCTION OF DESOTO, T VELOPMENT SERVICE SANITARY SEWE	BY D CON DETAIL SHEET CT BY THE ENGINEER INEER IS ALSO CERTINEER IS INEER IS ALSO CERTINEER INEER IS ALSO CERTINE INEER IS ALSO CERTINEER INEER IS ALSO CERTINE INEER IS ALSO CERT	ATE WHOSE IFYING ALTERED
		DATE: APRIL, 2016		SHEET: SD-	-16

MAIN	LINE	CLEANOUT				

- 1. SANITARY SEWER PIPE MAINS LESS THAN 10' DEPTH SHALL BE PVC SDR-35 PIPE. SEWER PIPE GREATER THAN 10' DEPTH SHALL BE PVC SDR-26 PIPE. LATERALS SHALL BE PVC SDR-26 PIPE GREEN IN COLOR.
- 2. SANITARY SEWER PIPE JOINTS SHALL CONFORM TO CURRENT ASTM DESIGNATIONS FOR PVC PIPE.
- 3. ALL SANITARY SEWER LATERALS SHALL INCLUDE 4" TEE, WYE BEND, PIPE, AND STOPPER INSTALLED AT THE CENTER OF EACH LOT, UNLESS OTHERWISE INDICATED ON THE PLANS. 6" OR LARGER LATERALS REQUIRE MANHOLE AT MAIN SEWER PIPE. LATERALS SHALL HAVE A MIN. SLOPE
- 4. UNLESS OTHERWISE NOTED, ALL MATERIAL AND CONSTRUCTION SHALL CONFORM TO THE
- 5. DROP MANHOLE REQUIRED FOR CONNECTIONS GREATER THAN 2' HEIGHT FROM MAIN FLOWLINE TO
- 6. THE LOCATION OF ALL MANHOLES, CLEANOUTS, AND SERVICES SHALL BE MARKED ON THE STREET OR
- 7. SPACING OF MANHOLES AND CLEANOUTS SHALL BE AS SPECIFIED IN THE CITY OF DESOTO WATER UTILITIES
- 8. MANHOLES CONSTRUCTED IN LOCATIONS SUBJECT TO SUBMERSION, SHALL BE WATER-TIGHT TYPE 'S'
- 9. NO SEWER SERVICE LINE CONNECTIONS SHALL BE CONSTRUCTED DEEPER THAN 12 FEET.
- 1. CITY DOES NOT TYPICALLY PERMIT THE CONSTRUCTION OF MAIN LINE CLEANOUTS, BUT RATHER REQUIRES THE CONSTRUCTION OF SEWER MANHOLES. PERMISSION FOR INSTALLATION OF CLEANOUTS

	NO.	REVISION	B`	Y DATE		
	CERTIFICATION: <u>CITY OF DESOTO STANDARD CONSTRUCTION DETAIL SHEET</u> IS AUTHORIZED FOR USE IN THIS PROJECT BY THE ENGINEER WHOSE SEAL APPEARS ON THIS SHEET. THIS ENGINEER IS ALSO CERTIFYING THAT THE DETAIL AND NOTES ON THIS SHEET HAVE NOT BEEN ALTERED FROM THAT RECEIVED FROM THE CITY OF DESOTO.					
	STANDARD	CONSTRUCTIO	N DE	TAILS		
CITY OF DESOTO, TEXAS DEVELOPMENT SERVICES ENGINEERING DEPARTMENT						
ACH SE AL	SANITARY SEWER					
√`	DATE: APRIL, 2016		SHEET:	SD-17		

TABLE OF QUANTITIES PER 100 LINEAR FEET REINFORCED CONCRETE PIPE						RCP	
SIZE OF	0. D. OF	TRENCH	TRENCH	CLASS A-1	CLASS A-1	CLASS B+	CLASS "G"
PIPE IN	PIPE IN	WIDTH IN	width in	EMBEDMENT	EMBEDMENT	EMBEDMENT	EMBEDMENT
INCHES	INCHES	INCHES	FEET	CRUSHED STONE	CONCRETE CAP	CRUSHED STONE	CONCRETE
12	16.00	32	2.67	7.29	7.29	6.47	9.64
15	19.50	36	3.00	9.70	9.70	7.96	12.39
18	23.00	39	3.25	11.96	11.96	9.20	15.43
21	26.50	43	3.58	14.89	14.89	11.22	18.76
24	30.00	46	3.83	17.53	17.53	13.09	22.38
27	33.50	51	4.25	21.62	21.62	16.13	26.30
30	37.00	57	4.75	26.86	26.86	20.07	30.50
33	40.50	62	5.17	31.87	31.87	23.80	35.01
36	44.00	67	5.58	37.31	37.31	27.84	39.80
39	47.50	72	6.00	43.18	43.18	32.19	44.89
42	51.00	75	6.25	47.51	47.51	35.22	50.27
45	54.50	79	6.58	53.05	53.05	39.21	55.94

Т	TABLE OF QUANTITIES PER 100 LINEAR FEET - PVC PIPE						
SIZE OF PIPE IN INCHES	O. D. OF PIPE IN INCHES	TRENCH WIDTH IN INCHES	TRENCH WIDTH IN FEET	CLASS B-1 EMBEDMENT CRUSHED STONE	CLASS "G" EMBEDMENT CONCRETE	CLASS "H" EMBEDMENT CRUSHED STONE	
6	6.28	24	2.0	4.12	4.45	8.64	
8	8.40	24	2.0	4.59	5.49	9.32	
10	10.50	26	2.17	5.48	6.57	10.81	
12	12.50	28	2.33	6.37	7.65	12.33	
15	15.30	31	2.58	7.74	9.23	14.65	
18	18.70	40	3.33	11.83	11.74	21.43	

FUTURE DETAIL SPACE

STONE EMBEDMENT USES USE(S) A-1 - - UTIL. & CREEK CROSSINGS FOR STORM DRAIN PIPE OVER 6' DEPTH. B-1 - - WATER & SEWER BACK OF EXIST. OR PROPOSED CURB. B+ ---- STORM DRAIN PIPE/CULVERT BACK OF EXIST. OR PROP. CURB. G — — — WATER, SEWER, & STORM DRAIN CREEK/UTIL. CROSSINGS \leq 6' DEPTH.

SHEET: SD-18

DATE: APRIL, 2016

1. STRIPS OF MATTING SHALL BE INSTALLED PARALLEL TO THE DIRECTION OF FLOW OVER THE SURFACE WHICH IS TO BE PROTECTED.

2. THE UP-CHANNEL END OF THE MATTING SHALL BE BURIED IN A TRENCH MEASURING 6 INCHES DEEP AND 6 INCHES WIDE FOR THE ENTIRE WIDTH OF THE END. THE SOIL SHALL BE BACKFILLED INTO THE TRENCH AND TAMPED FIRMLY. STAPLES SHALL BE PLACED EVERY 12 INCHES ALONG THE END OF THE MATTING.

3. EDGES OF ADJACENT STRIPS OF MATTING SHALL BE OVERLAPPED A MINIMUM OF 4 INCHES AND SHALL BE STAPLED EVERY 3 FEET ALONG THE OVERLAP.

4. WHEN JOINING STRIPS OF MATTING END TO END, A TRENCH SIMILAR TO THE ONE DUG AT THE BEGINNING OF THE ORIGINAL STRIP SHALL BE DUG WITH THE UP-CHANNEL END OF THE NEW STRIP BEING PLACED IN A LIKE MANNER IN THE TRENCH AT THE BEGINNING END OF THE ORIGINAL STRIP, THE END OF THE STRIP BEING FOLDED UNDER AT LEAST 12 INCHES. STAPLES SHALL BE INSTALLED AT 12 INCH INTERVALS ALONG THE WIDTH OF THE STRIP NOT MORE THAN 6 INCHES FROM THE TRENCH.

5. IN SITUATIONS WHERE ERODIBLE SOILS, STEEP SLOPES, OR HIGH VELOCITY FLOWS ARE ENCOUNTERED, A FOLD OF THE MATTING SHALL BE INSERTED INTO A 6 INCH TRENCH AND TAMPED FIRMLY. STAPLES SHALL BE INSTALLED AT 12 INCH INTERVALS ALONG THE TRENCH.

6. STAPLES FOR ANCHORING SOIL STABILIZING MATERIALS SHALL BE MADE OF 10 GAUGE WIRE OR HEAVIER. THEY SHALL BE 6 TO 10 INCHES IN LENGTH, WITH THE LONGER STAPLES BEING USED IN LOOSE OR UNSTABLE SOILS. THERE SHALL BE ONE STAPLE FOR EACH FOUR (4) SQUARE FEET OF MATTING TO ASSURE PROPER BONDING BETWEEN THE SOIL AND THE MAT MATERIAL.

EROSION CONTROL MATTINGS

NOTES

FUTURE DETAIL SPACE

	REVISION	ΒY	DATE
ICATION:	CITY OF DESOTO STANDARD CONSTRUCTION DE	TAIL SHE	ET
	IS AUTHORIZED FOR USE IN THIS PROJECT BY T SEAL APPEARS ON THIS SHEET. THIS ENGINEER THAT THE DETAIL AND NOTES ON THIS SHEET HA	HE ENGII IS ALSO AVE NOT	NEER WHOSE CERTIFYING BEEN ALTEREE
	FROM THAT RECEIVED FROM THE CITY OF DESOT	о.	

STANDARD	ANDARD CONSTRUCTION	

FERMO	CITY OF DESOTO, TEXAS DEVELOPMENT SERVICES ENGINEERING DEPARTMENT					
NOW FAI	& SEDIMENT	CONTR	OL			
\checkmark	DATE: APRIL, 2016		SHEET:	SD-21		