APPENDIX G

STANDARD CONSTRUCTION DETAILS: STORM DRAINAGE AND TxDOT DETAILS*





	GENERAL NOTES						
1. ALL CONCRETE DRAINA STRENGTH OF 3600 P.S.	GE STRUCTURES SHALL HAVE A N I.	MINIMUM C	OMPRESS	ED			
2. ALL CRUSHED STONE S	HALL BE 3/4", PASSING #4 SIEVE.						
3. ALL FIELD JOINTS WILL FIELD JOINTS SHALL BE SMOOTH FLOW OF WAT	BE APPROVED BY THE CITY ENGI WIPED ON THE INSIDE AND OUTS ER.	NEER IF NE BIDE TO PR	ECESSARY OVIDE FOI	R			
4. RAMNECK COMPOUND	OR APPROVED EQUAL SHALL BE U	JSED FOR	JOINT SEA	LS.			
5. ALL STORM SEWER PIP OF ALL UTILITIES AND P	E SHALL BE CAMERA INSPECTED A RIOR TO FINAL ACCEPTANCE OF T	AFTER THE THE PROJE	E INSTALLA CT.	TION			
6. ALL INLETS AND JUNCT CAST-IN-PLACE, UNLES	ION BOXES WITHIN THE CITY R.O. S APPROVED BY CITY ENGINEER.	W. WILL BI	E				
		STANDARI	D CONSTRUCTION TORM DRAINAGE	N DETAILS			
CITY OF ALLEN DEPARTMENT OF ENGINEERING	ERING GENERAL NOTES DATE: REV DATE: SHEET : MAY 1991 MAY 2017 SD-D01						













Ø WARP TO SUIT CONDITIONS ½" MORTAR FINISH, TROWELLED TO SMOOTH HARD SURFACE. 10' VARIABLE HEIGHT CURB INLET FRAME (LOCATION ON END OF PIPE) 4 10' 0 45" "9 30 36" .9 VARIES .9 .9 PLAN-STANDARD INLET + 5 .9 N.T.S. N N.T.S. SECTION A LIMITS OF BLOCKOUT LIMITS OF BLOCKOUT 2 L + 1' -+ -BAR . ⓓ SCALE SCALE 5 ە" ŵ -1 1 10' VARIABLE HEIGHT CURB **EXPANSION JOINT** 8-'4 JAUSU 5' XAM '3 EXPANSION JOINT PIPE MAY BE PLACED IN ANY WALL, REINFORCEMENT DETERMINED BY PAVING STANDARDS BASED UPON ROADWAY CLASSIFICATION. 10' FACE OF CURB-BUT SHALL NOT ENTER ANY CORNER OR BOTTOM. NOTE : STANDARD CONSTRUCTION DETAILS STORM DRAINAGE STANDARD CURB INLET CITY OF ALLEN REV DATE: MAY 2017 SHEET : SD-D08 DATE: JULY 1991 4,6,8 AND 10 FEET INLETS DEPARTMENT OF ENGINEERING

ALLEN LAND DEVELOPMENT CODE





0'-3" с 0'-3" 1'-6" 3'-2" 0'-3" 1'-6" 0'-3" 3'-2" BAR DIMENSIONS 0'-10" 3'-2" 0'-10" 0'-3" 0'-3" 2'-0" 2'-0" 3'-2" 0'-3" 0'-3" 0'-3" 3'-2" 3'-2" ۵ 0'-3" VARIES 3'-8" 7'-8" VARIES 1'-3" VARIES VARIES A 3'-2" 6'-6" 7'-8" 7'-8" 1'-6" 3'-3" 2'-1" 3'-2" 3'-2" 8'-6" 9--8" 3'-8" 9'-8" 1-3" 9'-8" 1'-6" 3'-3" 2'-1" 3'-2" REQ'D. 11 2 12 16 12 e 13 13 ო œ 4 13 2 4 N 12 19 e 16 16 œ 4 16 2 REINFORCING STEEL SCHEDULE DIMENSIONS SHOWN ARE FOR MAXIMUM SIZE INLET BAR DIA. (#/8") ო 4 4 4 ო e 4 4 ß 4 ო e 4 4 С с 4 4 ß c 4 4 ო 4 4 4 ო BAR с т Σ z < ۵ ပ ശ I Σ ∢ ۵ ш G _ 0 ٩ ш ¥ _ z 0 ٩ ш ¥ INLET 10' 0'-3" 3'-2" с 0'-3" 1'-6" 3'-2" 0'-3" 1'-6" 0'-3" BAR DIMENSIONS 0'-10" 0'-3" 3'-2" 0'-10" 0'-3" 0'-3" 0'-3" 2'-0" 3'-2" 2'-0" 0'-3" B 0'-3" 3'-2" 3'-2" VARIES VARIES VARIES VARIES A 3'-2" 2'-6" 3'-8" 3'-8" 3'-8" 1'-3" 3'-8" 1'-6" 3'-3" 2'-1" 3'-2" 3'-2" 4'-6" 5'-8" 3'-8" 1-3" 5'-8" 1'-6" 3'-3" 2'-1" 3'-2" REQ'D. 12 10 12 12 13 10 10 e 4 с 4 10 2 œ ω N œ 2 ŝ Э ~ N с SEE DIAGRAM FOR DIMENSIONS BAR DIA. (#/8") ო 4 4 ß ო ო 4 ო 4 4 **с** ო 4 ß 4 ო c 4 ო BAR G т _ Σ z 0 < ۵ υ ш Ċ т Σ ۵ ပ ¥ _ 0 < ш ۰ z م LENGTH STANDARD CONSTRUCTION DETAILS STORM DRAINAGE REINFORCING STEEL SCHEDULE CITY OF ALLEN DATE: REV DATE: SHEET : SD-D11 4,6,8 AND 10 FEET INLETS DEPARTMENT OF ENGINEERING JULY 1991 MARCH 2015

APPENDIX G - STANDARD CONSTRUCTION DETAILS: STORM DRAINAGE

BAR "L" AT 8" O.C. BAR "D" AT 8" O.C. < 42' 6" 30" 6" USUAL 4'-6" (60" MAX) BAR "I" AT 8" O.C. 9" 12" 6" VARIES Ş °9 ۰ BAR "A" AT 8" O.C. MLET OPENING=L (6',7', 8' & 10') 10') v, ઝ 4 ŵ (6',7', "N".O BAR and BAR OPENING=L . 54 "o BAR "B" 7 0.C. BAR N.T.S. INLET N.⊤.S. АT ∢ L X 2 + 1'-8" PLAN SECTION ົໝ °00 \odot VARIES 32' 10') () 10 -MANHOLE FRAME & COVER SCALE SCALE શ્વ ઝ BAR "R" INLET OPENING=L (6',7', 8' ο (6',7', **NOTE :** REINFORCEMENT SHOWN IS ADDITIONAL FOR SPECIAL CONDITION, FOR REMAINDER OF REINFORCEMENT SEE SECTIONS. BAR INLET OPENING=L 1 ັດ و" í مے MANHOLE COVER & FRAME BAR "F" (VARIES) -AT 8" O.C. BAR "L" 8" 0.C. ົ ပ္ WATER STOP BAR BAR A STANDARD CONSTRUCTION DETAILS STORM DRAINAGE 12,14,16 AND 20 FEET INLETS CITY OF ALLEN DATE: JULY 1991 REV DATE: APRIL 2015 SHEET : SD-D12 DEPARTMENT OF ENGINEERING

ALLEN LAND DEVELOPMENT CODE



REINFORCING STEEL SCHEDULE	DIMENSIONS SHOWN ARE FOR MAXIMUM SIZE INLET	TH BAR DIA. REQD. A B C LENGTH TYPE DIA. REQD. A B C C LENGTH TYPE (##8') REQD. A B C	2 A 3 14 32 0.3 - 16 A 3 20 32 0.3 -	B 3 2 9.4° B 3 2 13.4°	C 4 12 13-4 0.3 0.3 C 4 12 17-4 0.3 0.3 0.3 C 4 12 17-4 0.3 0.3 0.3	D 4 23 3.8" D 4 29 3.8"	E 5 12 13:4° E 5 12 17:4°	F 4 3 VARIES	G 3 20 1 ¹ .3 ^r 2 ^{-0^r} - G 3 26 1 ¹ .3 ^r 2 ^r 0 ^r -	н 3 20	I 4 3 13:4" 3:2" I 4 3 17:4" 3:2" I	J 4 1 1 ^{1.6} 0 ^{1.10°} 1 ^{1.6°} 0 ^{1.10°} 1 ^{1.6°} 0 ^{1.10°} 1 ^{1.6°}		L 3 8 3:3' 0:3' 0:3' 10'3'3'	M 4 6 2-1" M 4 6 2-1"	N 4 20 3.2" 3.2" 3.2" N 4 26 3.2" 3.2" 3.2"		P 4 2 VARIES	Δ 3 2 1.6	R 3 4 1:3" 1 <th1< th=""> <th1< th=""> 1 1</th1<></th1<>	' A 3 18 3·2" 0·3" - 20 A 3 28 3·2" 0·3" -	B 3 2 11:4° B 3 2 17:4°	C 4 12 15:4" 0:3" 0:3" C 4 12 21:4" 0:3" 0:3"	D 4 27 3'8' D 4 35 3'8'	E 5 12 15 ⁻⁴ E 5 12 21-4°	F 4 3 VARIES	G 3 24 1 ⁻³ 2-0 ¹ - G 3 32 1 ⁻³ 2-0 ¹ -	Н 3 24	I 4 3 15:4" 3:2" 1 4 3 21:4" 3'2"	J 4 1 1'6" 0'10" 1'6" J 4 1 1'6" 0'10" 1'6"	L 3 8 3.3" 0.3" 0.3" L 3 8 3.3" 0.3" 0.3"	M 4 6 2-1" M 4 6 2-1"	N 4 24 3.2° 3.2° 3.2° 3.2° 3.2° 3.2° 3.2° 3.2°		P 4 2 VARIES	α 3 2 1'8'	R 3 4 1 ¹³ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		DIAGRAM FOR DIMENSIONS
	BAR	H TYPE DIA. (#/8")	A 3	B 3	C 4	D 4	2	F 4	т О	m T	-	ل 4	١	L 3	M 4	N 4	- 0	P 4	e e	е	A 3	3	C 4	D 4	E 5	F 4	3 0	н 3	1 4	J 4	 L 3	M 4	Z 4	•	с 4	e a	е К	AGRAM FOR DIMENSIONS	





















STRAIGHT BARS BENT BARS 0 N.T.S. 1-6" OR 2 PLAN 4' OR 5' 1-6" OR 2' SCALE

APPENDIX G - STANDARD CONSTRUCTION DETAILS: STORM DRAINAGE

















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	NOTES : STORM	WATER POLLUTION PLAN									
1.	 All operators and/or contractors shall conform to the terms and conditions of the Texas Commission on Environmental Quality (TCEQ), TPDES General Permit No. TXR 150000 Issued and Dated March 5, 2003. 										
2.	The Notice of Intent (NOI), as required by the General Permit, must be properly displayed on site at all times by each operator.										
3.	 All releases of the reportable quantities of hazardous substances shall be reported immediately to the facility operator, EPA, and TCEQ. 										
4.	4. Qualified operator personnel must inspect the site al least once every 14 days and 24 hours of a storm event at 0.5 inches or greater. As an alternative, an inspection can be conducted once every seven (7) calendar days on a defined day. A decision on which method to use must be decided before work begins and must be followed throughout the project.										
5.	 Modifications to the Storm Water Pollution Prevention Plan shall be implemented and be in-place within a Seven calendar day period. 										
6.	If any contractor sees a violation bas well as the facility operator.	by an operator or another contractor, that operator or	contractor in vio	lation shall be no	otified						
7.	Erosion control shall be installed	prior to grading.									
8.	 Accumulated silt deposits shall be removed from silt fences and hay bale dikes when silt depth reaches six inches or capacity has been reduced by 50%, whichever occures first. Removal of silt deposits by the contractor shall be incidental to the performance of the contract and a separate bid item shall not be included. 										
9.	9. The contractor shall add or delete erosion protection at the request and direction of the Operator of the city.										
10.	 After installation of pavement, final lot benching and general cleanup, the paving Contractor shall establish grass groundcover in all street parkways, lot and all other disturbed areas. Sodding shall be done as specified by Section 202.5 and seeding as specified by Section 200.6 of the October 2004 or Latest edition of NCTCOG Standard Specification. 										
11.	 It shall be the contractor's responsibility to control and limit silt and sediment leaving the site. Specifically, the contractor shall protect all public streets, alleys, streams and storm drainage systems from erosion deposits. 										
12.	2. It shall be the contractor's responsibility to provide a dumpster (or equal) to collect solid waste materials during construction.										
13.	3. A drainage area map will be included with the Storm Sewer Pollution Plan.										
14.	 14. It is anticipated that the following non-storm water discharges will be associated with this project. These discharges are authorized through the construction general permit. A. Fire hydrant flushing B. Discharge from Firefighting activities C. Potable water sources including waterline flushing D. Water used to control dust E. Uncontamianted ground water F. Air Conditioning condensate G. Vehicle, external building and pavement wash water where detergent and soaps are not used and where spills of toxic or hazardous materilas have not occured and the purpose is to remove mud, dirt or dust. 										
15.	 Construction waste disposal containers shall be provided on the site for disposal of all non-hazardous construction waste materials. The containers shall be hauled to landfill by the Contractor. 										
16.	 All hazardous materials shall be handled and disposed of by the Contractor in accordance with Federal, State and Local regulations. 										
		STORM WATER POLLUTION PLAN	STANDARD CONSTRUCTION DETAILS EROSION CONTROL								
C	ITY OF ALLEN RTMENT OF ENGINEERING	NOTES	DATE: JULY 2003	REV DATE: AUG. 2006	SHEET : SD-EC01						

NOTES: SILT FENCE

- 1. Posts which support the silt fence shall be installed on a slight angle toward the anticipated runoff source. The post must be embedded a minimum of 18 inches.
- 2. The toe of the silt fence shall be trenched in with a spade or mechanical trencher, so that the downslope face of the trench is flat and perpendicular to the line of flow. Where fence cannot be trenched in (e.g. pavement), weight fabric flap with washed grave on the uphill side to
- 3. The trench must be a minimum of 6 inches deep and 6 inches wide to allow for the silt fence fabric to be laid in the ground and backfilled with compacted material.
- 4. Silt fence shall be securely fastened to each support post or to woven wire, which is in turn attached to the support post. There shall be a 6 inch double overlap, securely fastened where ends of fabric meet.
- 5. Inspection shall be made daily or after each rainfall. Repair or replacement shall be made promptly as needed.
- 6. Silt fence shall be removed when the site is completely stabilized so as not to block or impede storm flow or drainage.
- 7. Accumalated silt shall be removed when it reached a depth of 3 inches. The silt shall be disposed of at an approved site and in such a manner as to not contribute to aditional siltation.



prevent flow under fence.

SILT FENCE NOTES

STANDARE EF	CONSTRUCTION	I DETAILS L
DATE:	REV DATE:	SHEET :
JULY 2003	AUG. 2006	SD-EC02

JULY





















