

STORM SEWER GENERAL NOTES & TELEVISION REPORT

A. ACCEPTABLE STORM SEWER MAIN MATERIAL ARE AS FOLLOWS:

1. NCTCOG APPROVED REINFORCED CONCRETE PIPE OR BOX
2. HP STORM BY ADS
3. ALUMINIZED FLOW BY CONTECH

B. THE CONTRACTOR WILL PROVIDE A DIGITAL FILE AND SUITABLE LOG OF INSPECTION PERFORMED BY EXPERIENCED PERSONNEL ON A CLOSED CIRCUIT COLOR TELEVISION (ACCURATE FOOTAGE DISPLAYED ON VIDEO).

C. ALL PERTINENT DATA RECORDED IN AUDIO ON THE MEDIA TO INCLUDE:

1. DATE AND TIME OF RECORDING
2. CONTRACTOR'S NAME, PROJECT NAME, AND CONTRACT NUMBER
3. NAME OF THE COMPANY PERFORMING THE TELEVISION INSPECTION AND THE NAME OF THE OPERATOR
4. LOCATION, DESIGNATION, AND SIZE OF THE MAIN AND THE DIRECTION OF THE TEST
5. EVERY 50-FOOT STATION
6. STATION OF EACH MANHOLE
7. LOCATION AND STATION OF DEFICIENCIES IN ACCORDANCE WITH PACP AS DEFINED BY NASSCO
8. LOCATION AND DIRECTION OF ENTRY OF LATERALS

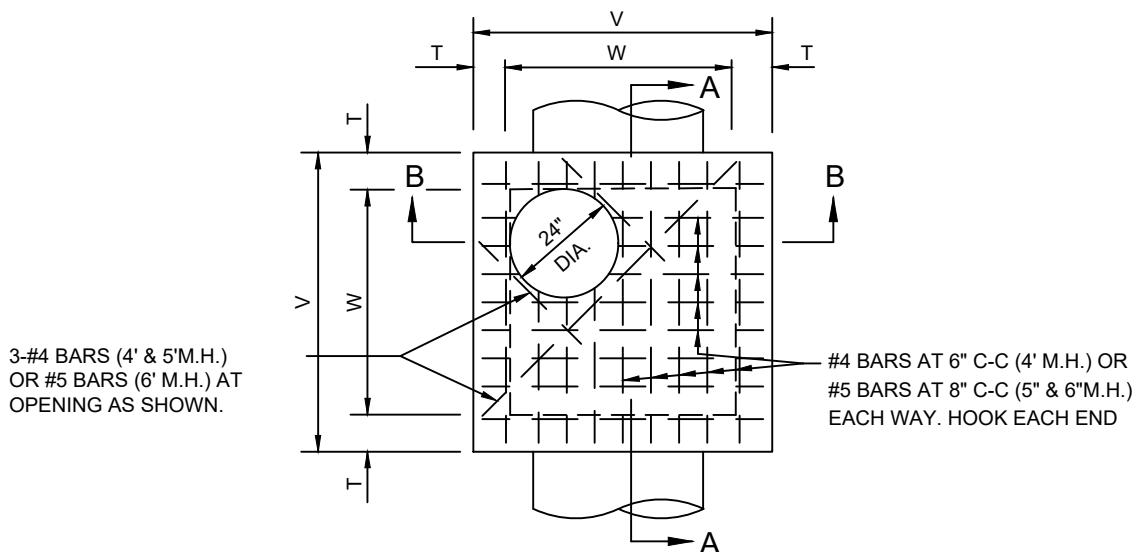
D. THE CONTRACTOR WILL ALSO PROVIDE A WRITTEN TELEVISION REPORT (INDICATING MANHOLE NUMBERS) THAT WILL ACCOMPANY THE VIDEO RECORDING. THIS WRITTEN REPORT MUST INCLUDE:

1. MANHOLE NUMBERS (THESE NUMBERS MUST MATCH MANHOLE NUMBERS ON "AS BUILT" DRAWINGS).
2. SERVICE CONNECTION LOCATIONS RIGHT OR LEFT.
3. REFERENCE TO SERVICE CONNECTION LOCATIONS OUT OF MANHOLES.
4. LOCATIONS OF SUSPECTED AND OBVIOUS DEFICIENCIES (i.e. BAD JOINTS, BREAKS, OR LEAKS, ETC).
5. DEPTH OF EACH MANHOLE.
6. ACTUAL MEASURED DISTANCE (ON GROUND) BETWEEN MANHOLES.

E. ALL VISUAL AND TELEVISION INSPECTIONS SHALL BE COMPLETED AND APPROVED BY THE CITY INSPECTOR FROM THE CITY OF MELISSA ENGINEERING DEPARTMENT PRIOR TO PLACING OF ANY PAVEMENT. AN INSPECTOR FROM THE MELISSA ENGINEERING DEPARTMENT MUST WITNESS THE RECORDING. THE ENGINEERING DEPARTMENT SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE FOR SCHEDULING. TELEVISION RECORDINGS MUST CLEARLY SHOW DETAILS OF STRUCTURAL DEFECTS, MISALIGNMENTS, AND INFILTRATION. ALL KNOWN OR INDICATED BREAKS SHALL BE REPAIRED BY THE CONTRACTOR REGARDLESS OF THE TEST ALLOWANCES. FAULTY SECTIONS OF STORM SEWER LINES, INLETS, AND MANHOLES REJECTED BY THE ENGINEER SHALL BE REMOVED AND REINSTALLED BY THE CONTRACTOR. SUNKEN MANHOLES AND INLETS WILL NOT BE ACCEPTED. ALL MANHOLE AND INLET INVERTS MUST BE COMPLETED PRIOR TO VIDEO RECORDING.

M* - CITY OF MELISSA REVISION

STORM SEWER GENERAL NOTES & TELEVISION REPORT	 MELISSA TX	NCTCOG STANDARD SPECIFICATION REFERENCE	
		507.5	
		MODIFIED DATE	STANDARD DRAWING NO.
		07/31/24	6001M*
CITY OF MELISSA, TEXAS	NOTICE DATE	APPLIED DATE	ENFORCED DATE
	08/01/24	08/01/24	09/01/24



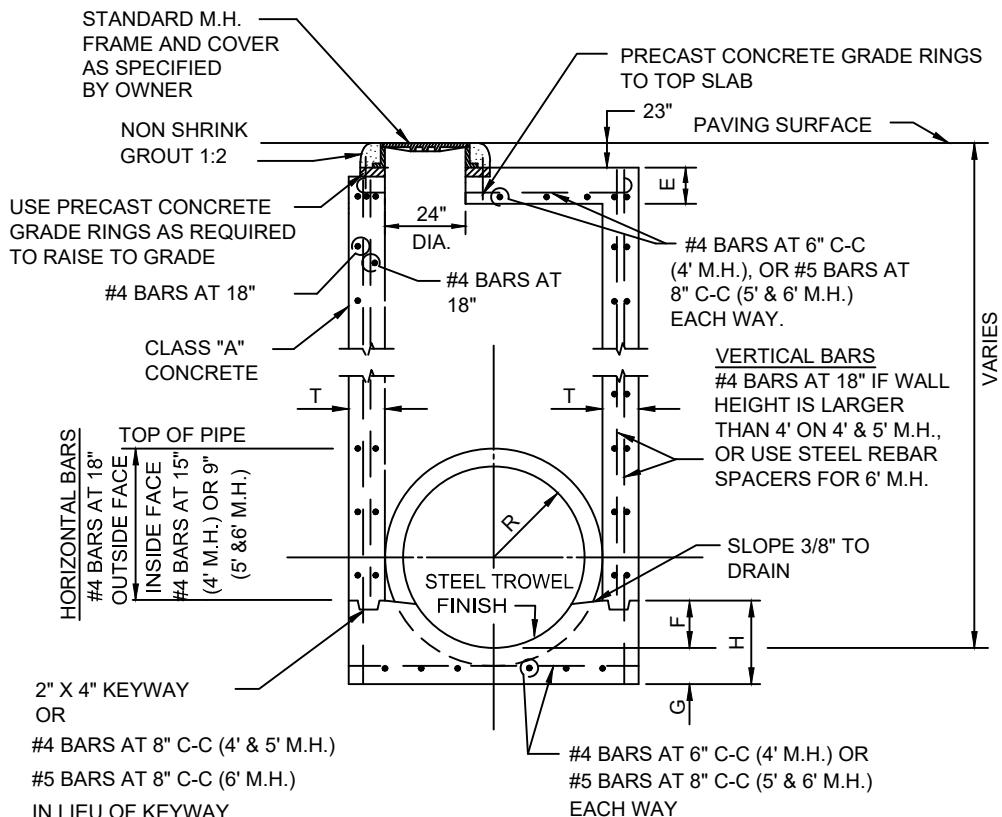
M.H. SIZE(W)	V	T	E	F	G	H
4'	5'-4"	8"	6"	9"	6"	1'-3"
5'	6'-4"	8"	6"	12"	8"	1'-8"
6'	7'-6"	9"	9"	16"	10"	2'-2"

PLAN

N.T.S.

TABLE OF DIMENSIONS

N.T.S.



SECTION B-B

N.T.S.

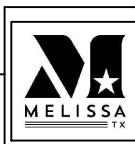
STORMWATER MANHOLE

4', 5', OR 6' SQUARE

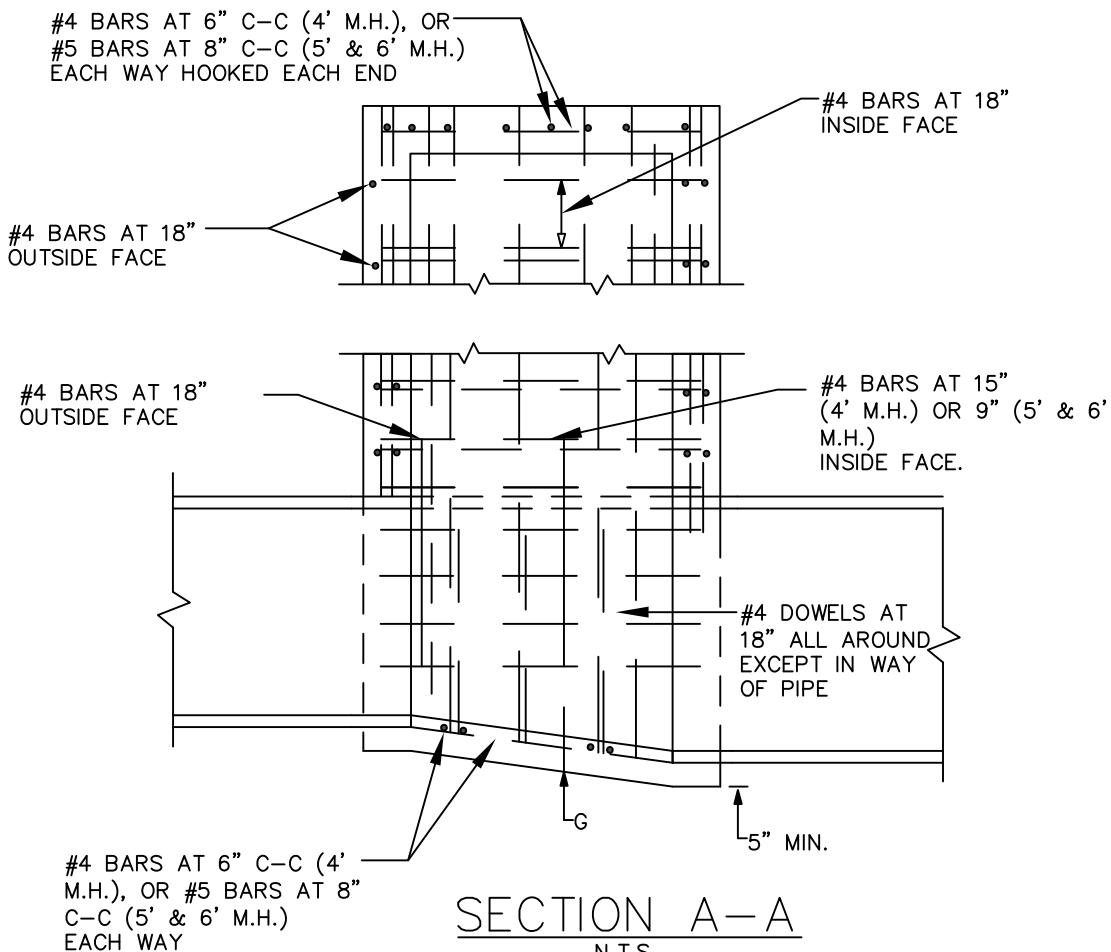
M* - CITY OF MELISSA REVISION

NCTCOG STANDARD SPECIFICATION REFERENCE

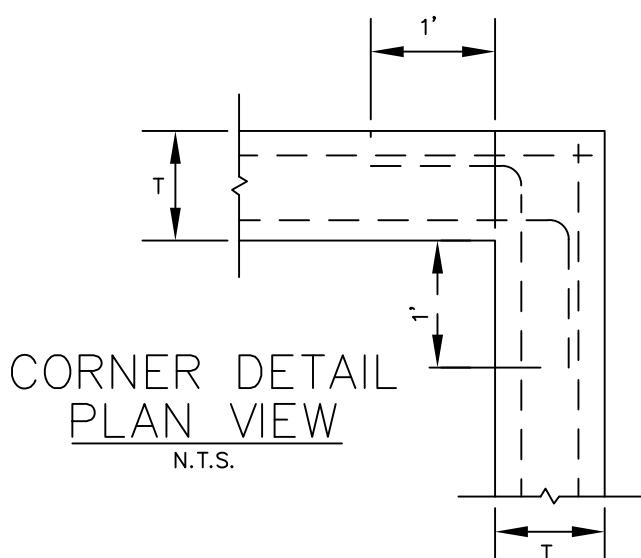
502.1



MODIFIED DATE	12/17/13	STANDARD DRAWING NO.	6010AM*
NOTICE DATE	ADOPTED DATE	ENFORCEMENT DATE	



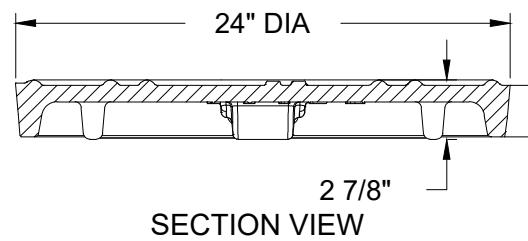
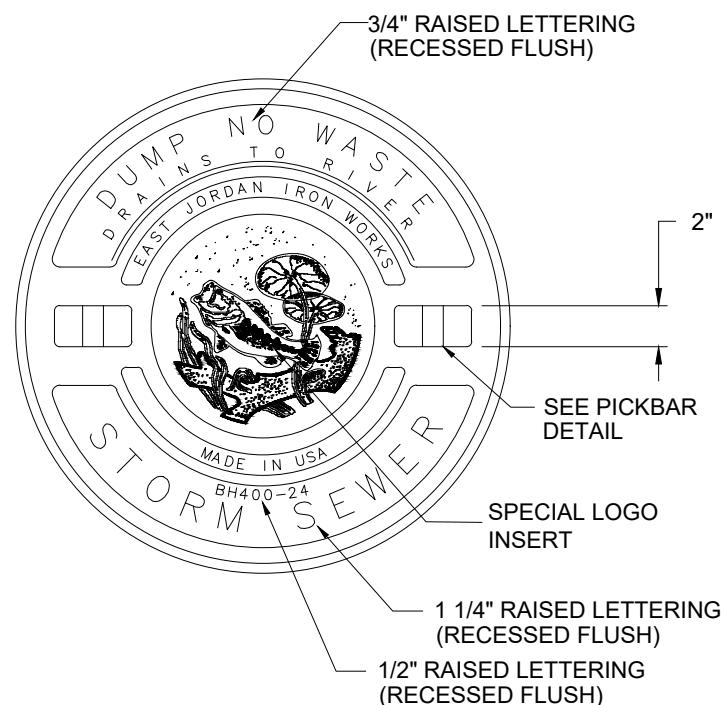
*REFERENCE TABLE 6010A



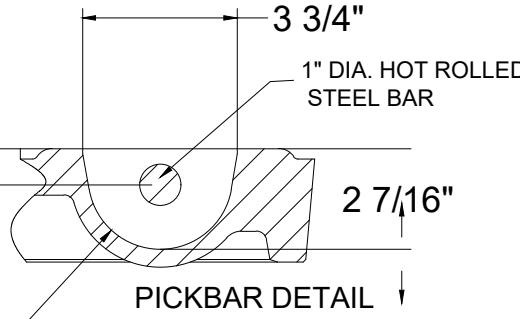
NOTES:

1. SLOPE INVERT OF MANHOLE AS INDICATED ON PLAN-PROFILE SHEET.
2. LAYERS OF REINFORCING STEEL NEAREST THE INTERIOR AND EXTERIOR SURFACE SHALL HAVE A COVER OF 2" CLEAR OF BARS, UNLESS OTHERWISE NOTED.
3. CONCRETE SHALL BE CLASS "C".
4. PRECAST PRODUCTS MAY BE USED AT THE APPROVAL OF THE OWNER.

STORM WATER MANHOLE 4', 5', OR 6' SQUARE	North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE 502.1.4.1
		DATE AUG '23 STANDARD DRAWING NO. 6010B



BOTTOM VIEW



LIST OF ACCEPTABLE STORMWATER MANHOLE RING & COVERS

24" DIAMETER COVERS:

BASS & HAYES 400-24
NEENAH FOUNDRY DF-1271

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**STORMWATER MANHOLE
RING AND COVER**



NCTCOG STANDARD SPECIFICATION REFERENCE	
508	STANDARD DRAWING NO.
DATE 02/03/09	6011M*

SEE DETAIL C6010AM FOR MANHOLE REBAR SPACING
AND CONSTRUCTION OF WALLS

PAVING SURFACE

HORIZONTAL BARS
CONSTRUCTED PER
6010AM

#5 BARS AT 8" C-C
BOTH WAYS

INTAKE

5' MAXIMUM

1' MIN
OVERLAP

W/2

6"

DISCHARGE

VERTICAL BARS
CONSTRUCTED PER
6010AM

W

SECTION B-B

N.T.S.

DROP STORMWATER MANHOLE

6' SQUARE W/ BAFFLES

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NCTCOG STANDARD SPECIFICATION REFERENCE



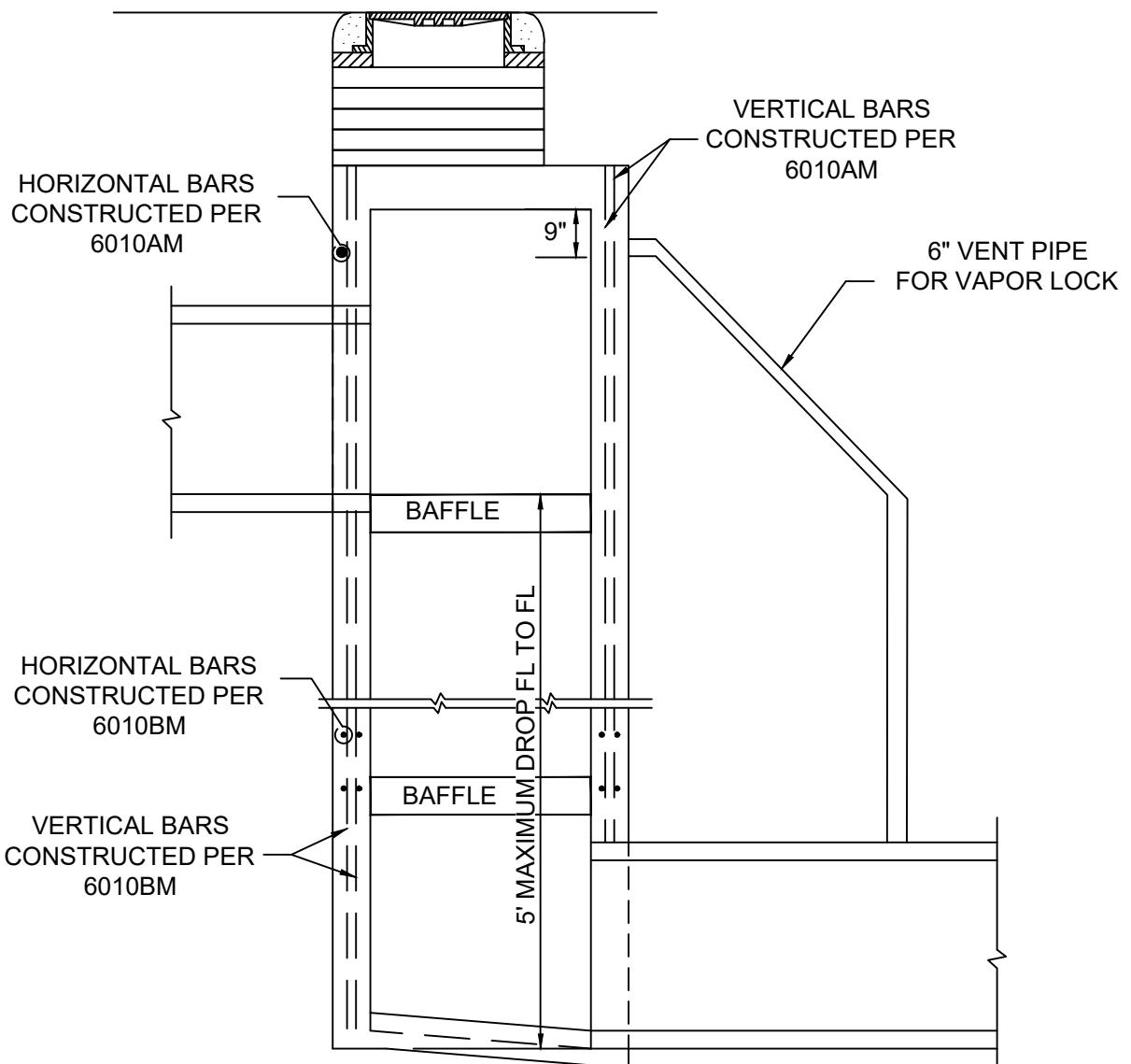
MODIFIED DATE
02/24/15

STANDARD DRAWING NO.
6012AM*

NOTICE DATE

ADOPTED DATE

ENFORCEMENT DATE



SECTION A-A

N.T.S.

IF MAX ALLOWABLE VELOCITY (12 FPS)
CANNOT BE MET:

1. MAX DROP FROM FL TO FL = 5' AND BAFFLE IS REQUIRED. BAFFLE CONSTRUCTED PER 6012AM.
2. MIN. MANHOLE SIZE TO BE 6'x6'
3. CLASS IV PIPE IS REQUIRED.
4. 6" DIA. VENT PIPE TO BE INSTALLED D/S OF OUTLET & RECONNECT 9" BELOW TOP

DROP STORMWATER MANHOLE

6' SQUARE W/BAFFLES

M* - CITY OF MELISSA REVISION



NCTCOG STANDARD SPECIFICATION REFERENCE

MODIFIED DATE
03/02/15

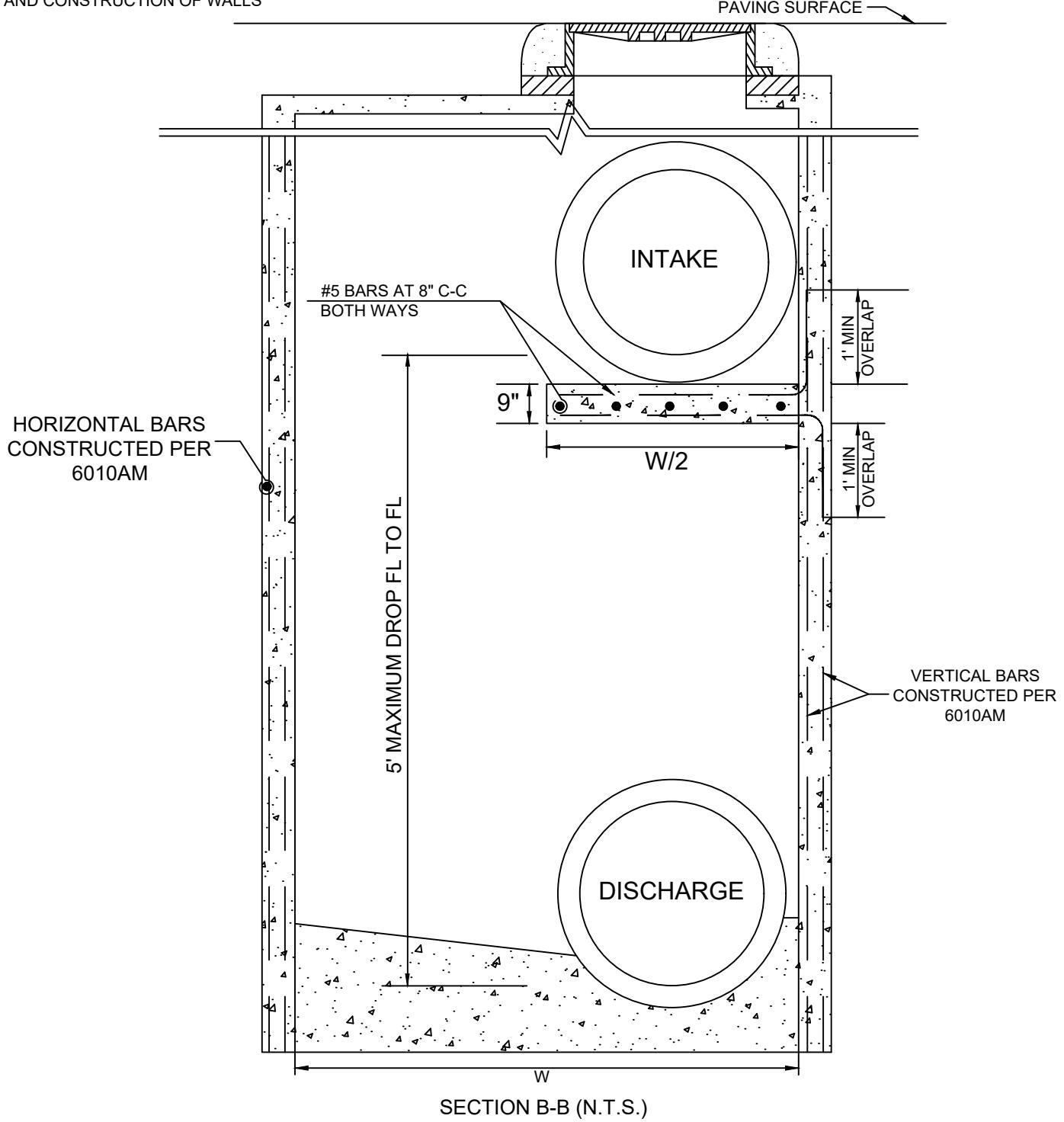
STANDARD DRAWING NO.
6012BM*

NOTICE DATE

ADOPTED DATE

ENFORCEMENT DATE

SEE DETAIL 6010AM FOR MANHOLE REBAR SPACING AND CONSTRUCTION OF WALLS



IF DESIGN IS GREATER THAN MAX ALLOWABLE VELOCITY (12 FPS):

MH SIZE(W)	V	T	E	F	G	H
6'	7'-6"	9"	9"	16"	10"	2'-2"

1. MAX DROP FROM FL TO FL = 5' AND BAFFLE IS REQUIRED.

2. MIN. MANHOLE SIZE TO BE 6'x6'.

3. CLASS IV PIPE IS REQUIRED.

4. 6" DIA. VENT PIPE TO BE INSTALLED DOWNSTREAM OF OUTLET & RECONNECTED 9" BELOW TOP.

TABLE OF DIMENSIONS
FROM 6010AM

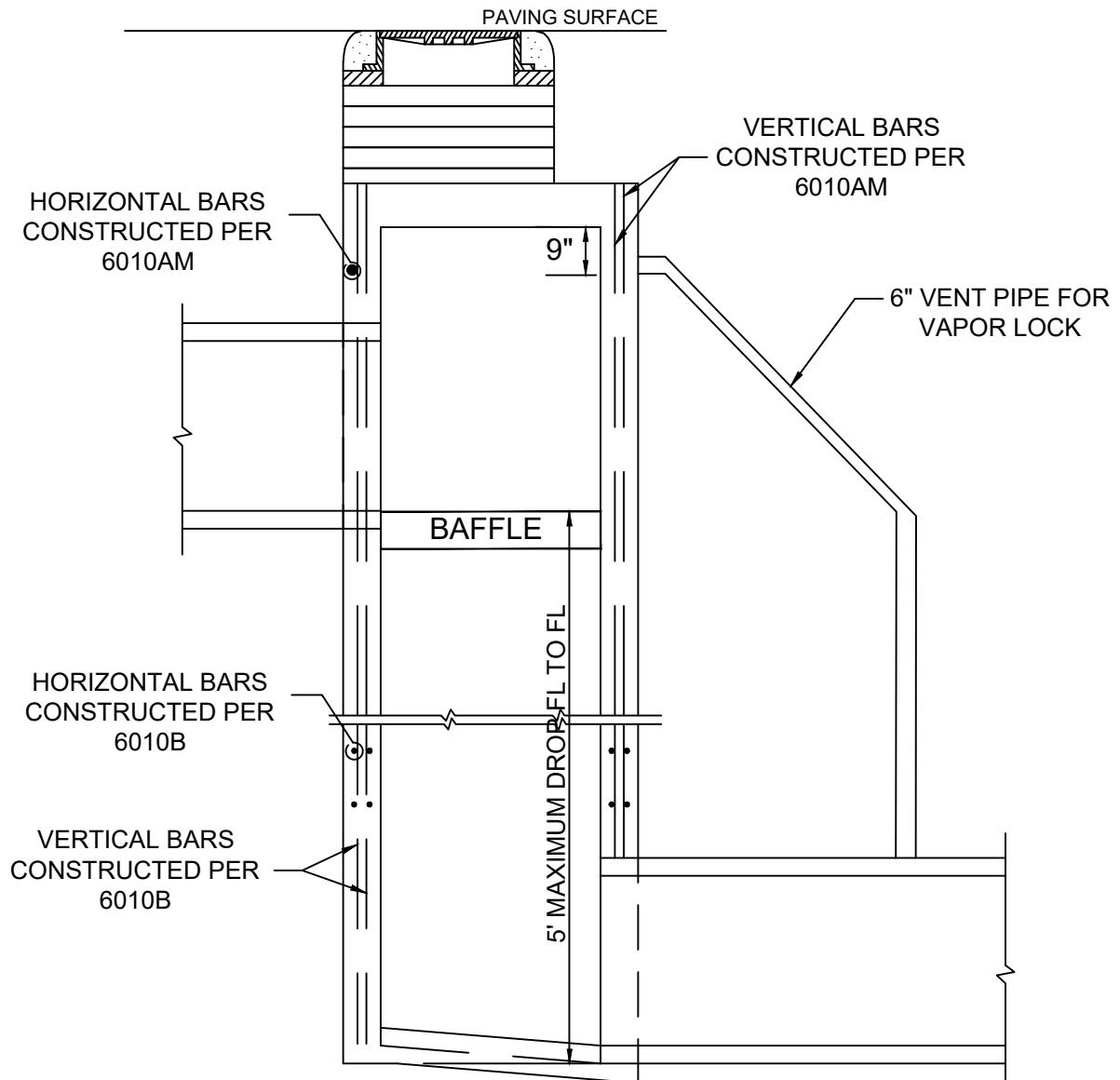
N.T.S.

M* - CITY OF MELISSA REVISION

DROP STORMWATER MANHOLE

6' SQUARE W/ 1 BAFFLE

 MELISSA TX	NCTCOG STANDARD SPECIFICATION REFERENCE	
	MODIFIED DATE	STANDARD DRAWING NO.
	09/15/15	6012CM*
NOTICE DATE	APPLIED DATE	ENFORCED DATE



SECTION A-A

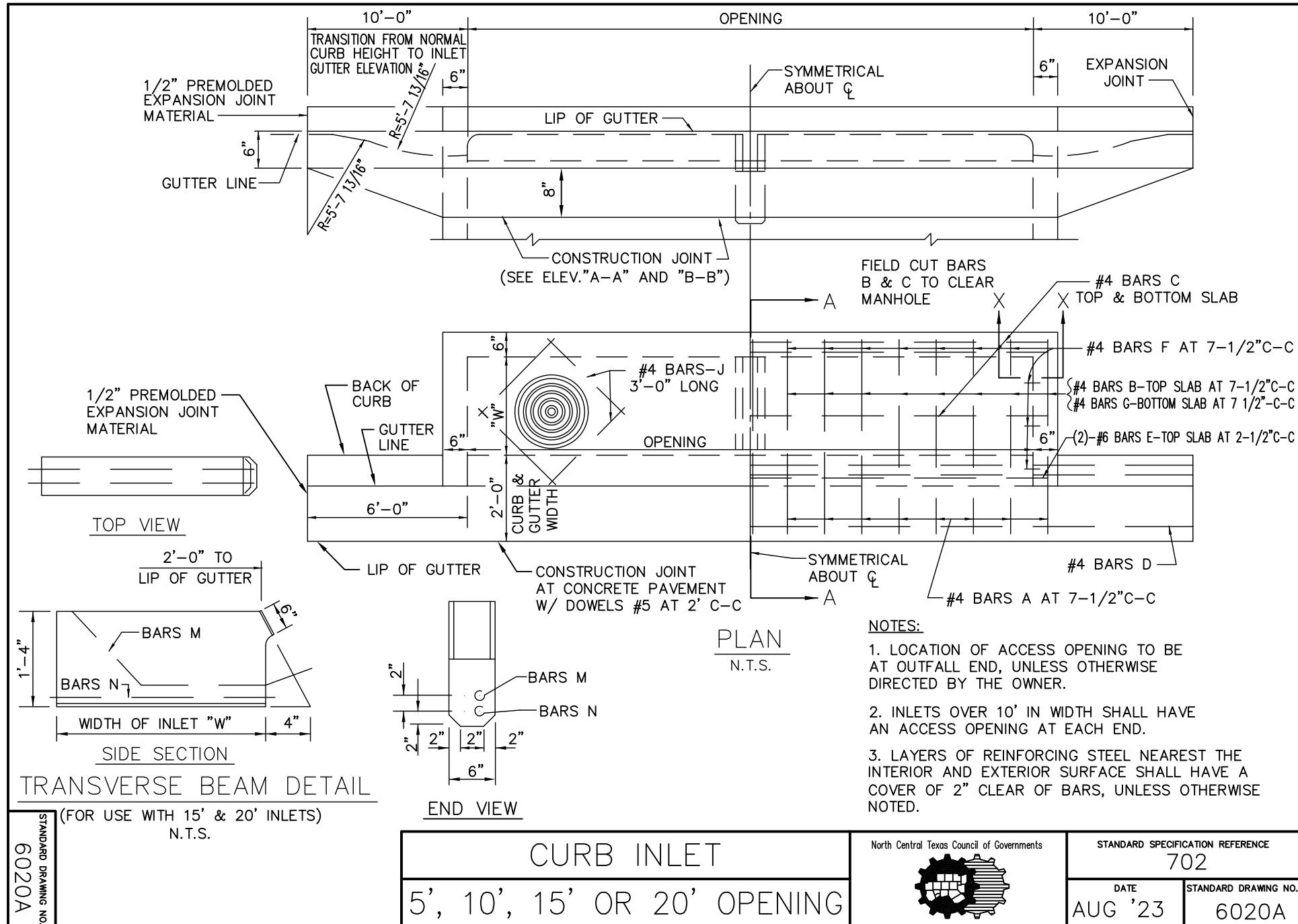
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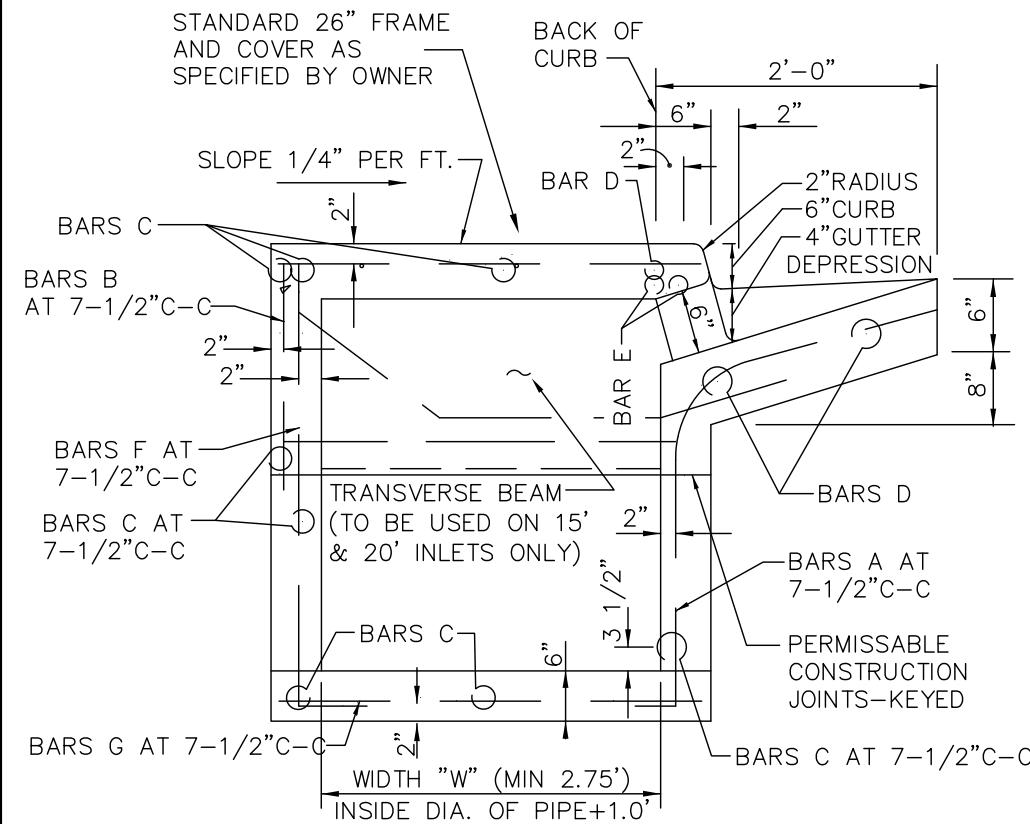
IF DESIGN IS GREATER THAN MAX ALLOWABLE VELOCITY (12 FPS):

1. MAX DROP FROM FL TO FL = 5' AND BAFFLE IS REQUIRED. BAFFLE CONSTRUCTED PER 6012CM.
2. MIN. MANHOLE SIZE TO BE 6'x6'.
3. CLASS IV PIPE IS REQUIRED.
4. 6" DIA. VENT PIPE TO BE INSTALLED DOWNSTREAM OF OUTLET & RECONNECTED 9" BELOW TOP.

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DROP STORMWATER MANHOLE 6' SQUARE W/ 1 BAFFLE	NCTCOG STANDARD SPECIFICATION REFERENCE	
	MODIFIED DATE 09/15/15	STANDARD DRAWING NO. 6012DM*
NOTICE DATE	APPLIED DATE	ENFORCED DATE



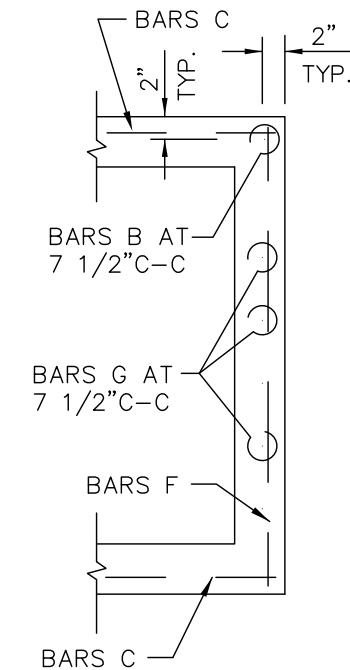


SECTION "A-A"

GENERAL NOTES:

N.T.S.

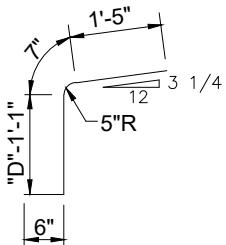
1. ALL CONCRETE SHALL BE CLASS "C" CONCRETE.
2. REINFORCING BARS SHALL BE STANDARD GRADE STEEL, DEFORMED REINFORCING BARS OF A DIAMETER AND LENGTH AS SHOWN.
3. CHAMFER ALL EXPOSED CORNERS 3/4" EXCEPT WHERE OTHERWISE NOTED.
4. DIMENSIONS RELATING TO REINFORCING STEEL ARE TO OUTSIDE EDGE OF BARS.
5. FIELD CUT AND BEND BARS AS NECESSARY TO ACCOMODATE STORM SEWER PIPE.
6. RING AND COVER SHALL BE APPROVED BY THE OWNER AND INSTALLED BY THE CONTRACTOR.
7. INLET OPENING SHALL BE 6" MIN. OR 8" MAX.
8. PRECAST PRODUCT MAY BE USED AT THE APPROVAL OF THE OWNER.



SECTION "X-X"

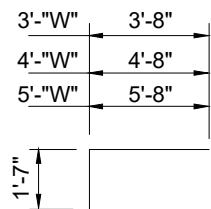
N.T.S

9. ALLOW 1" MIN. CLEAR SPACE BETWEEN OD OF PIPE OR BOX AND INSIDE WALL OF INLET (OD OF PIPE OR BOX SHOULD ACCOUNT FOR SKEWED CONDITIONS).
10. DEPTHS GREATER THAN 10' NEED TO BE STRUCTURALLY ENGINEERED.
11. KEYWAY JOINT TO BE MIN. 18" ABOVE FLOWLINE, UNLESS APPROVED BY ENGINEER.



#4 BARS A

N.T.S.



#4 BARS B

N.T.S.



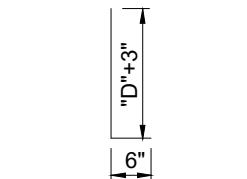
#4 BARS C & D

N.T.S.



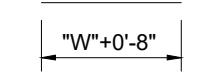
#4 BARS E

N.T.S.



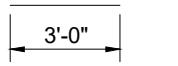
#4 BARS F

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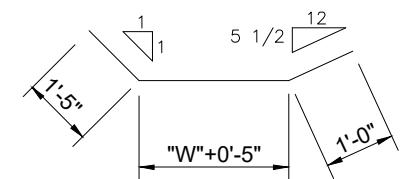
#4 BARS G

N.T.S.



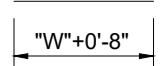
#4 BARS J

N.T.S.



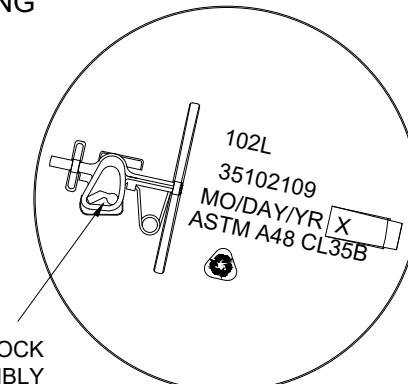
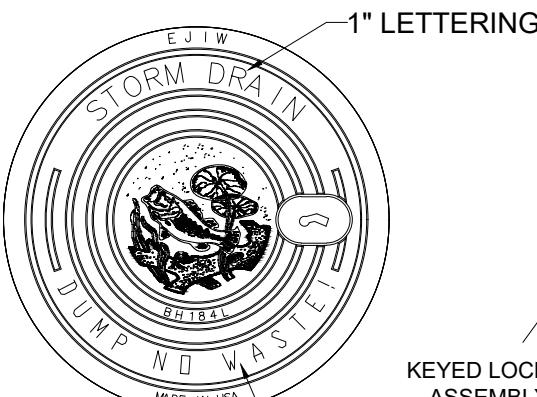
#3 BARS M

N.T.S.

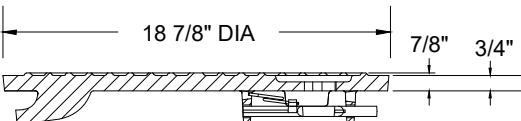


#5 BARS N

N.T.S.



BOTTOM VIEW



COVER SECTION

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CURB INLET

REBAR & M.H. FRAME & COVER



NCTCOG STANDARD SPECIFICATION REFERENCE

702

DATE	STANDARD DRAWING NO.
02/03/09	6020CM*

BILL OF REINFORCING STEEL

DEPTH "D"	ALL WIDTHS AND LENGTHS				OPENING LENGTH "L" = 5ft				OPENING LENGTH "L" = 10ft				OPENING LENGTH "L" = 15 ft				OPENING LENGTH "L" = 20 ft														
					Widths "W"			Widths "W"			Widths "W"			Widths "W"			Widths "W"			Widths "W"											
					3ft		4ft		5ft		3ft		4ft		5ft		3ft		4ft		5ft		3ft								
	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS							
3'-6"	17	3	2	4	20	24	28	10	10	20	28	32	36	18	18	28	36	40	44	26	26	36	2	2	44	52	34	34	44	2	2
3'-9"	18	"	"	"	"	"	"	"	"	20	"	"	"	"	"	28	"	"	"	"	"	36	"	"	"	"	"	"	44	"	"
4'-0"	19	"	"	"	"	"	"	"	"	24	"	"	"	"	"	32	"	"	"	"	"	40	"	"	"	"	"	"	48	"	"
4'-3"	19	"	"	"	"	"	"	"	"	24	"	"	"	"	"	32	"	"	"	"	"	40	"	"	"	"	"	"	48	"	"
4'-6"	21	"	"	"	"	"	"	"	"	26	"	"	"	"	"	34	"	"	"	"	"	42	"	"	"	"	"	"	50	"	"
4'-9"	21	"	"	"	"	"	"	"	"	26	"	"	"	"	"	34	"	"	"	"	"	42	"	"	"	"	"	"	50	"	"
5'-0"	21	"	"	"	"	"	"	"	"	26	"	"	"	"	"	34	"	"	"	"	"	42	"	"	"	"	"	"	50	"	"
5'-3"	23	"	"	"	"	"	"	"	"	28	"	"	"	"	"	36	"	"	"	"	"	44	"	"	"	"	"	"	52	"	"
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NOTES:

- FOR CONVENIENCE, DEPTHS OF INLETS SHOWN IN ABOVE TABLES ARE IN INCREMENTS OF 3 INCHES BUT ANY DEPTHS OTHER THAN THOSE SHOWN ABOVE MAY BE USED WHEREVER DEEMED NECESSARY. QUANTITIES FOR OTHER DEPTHS FALLING WITHIN THE LIMITS OF THE TABLE MAY BE FOUND BY INTERPOLATION.
- DEPTHS GREATER THAN 10' NEED TO BE STRUCTURALLY ENGINEERED.

CURB INLET

BILL OF REINFORCING STEEL

North Central Texas Council of Governments



STANDARD SPECIFICATION REFERENCE

702

DATE
AUG '23

STANDARD DRAWING NO.
6020D

SUMMARY OF QUANTITIES FOR CURB INLETS

DEPTH "D"	5'-0" OPENING				10'-0" OPENING				15'-0" OPENING				20'-0" OPENING					
	WIDTH	3'-0"	WIDTH	4'-0"	WIDTH	5'-0"	WIDTH	3'-0"	WIDTH	4'-0"	WIDTH	5'-0"	WIDTH	3'-0"	WIDTH	4'-0"	WIDTH	5'-0"
	CONC C.Y.	STEEL LBS.	CONC C.Y.	STEEL LBS.	CONC C.Y.	STEEL LBS.	CONC C.Y.	STEEL LBS.	CONC C.Y.	STEEL LBS.	CONC C.Y.	STEEL LBS.	CONC C.Y.	STEEL LBS.	CONC C.Y.	STEEL LBS.	CONC C.Y.	STEEL LBS.
3'-6"	2.62	306	2.95	332	3.28	373	4.12	479	4.64	521	5.20	564	5.69	667	6.40	721	7.10	775
3'-9"	2.70	309	3.04	341	3.39	373	4.25	494	4.78	536	5.34	579	5.87	687	6.58	741	7.30	796
4'-0"	2.78	328	3.14	364	3.49	399	4.38	518	4.92	565	5.49	610	6.05	718	6.77	776	7.49	835
4'-3"	2.87	334	3.23	370	3.59	406	4.51	526	5.06	573	5.64	619	6.22	729	6.95	787	7.69	847
4'-6"	2.95	356	3.32	394	3.69	431	4.64	558	5.20	607	5.79	656	6.40	770	7.14	830	7.88	891
4'-9"	3.03	361	3.41	410	3.79	438	4.77	566	5.34	616	5.94	665	6.57	780	7.32	841	8.07	903
5'-0"	3.12	367	3.51	416	3.90	445	4.90	574	5.47	624	6.09	674	6.75	791	7.51	853	8.27	915
5'-3"	3.20	383	3.60	424	4.00	465	5.03	600	5.61	652	6.23	704	6.93	827	7.69	890	8.46	955
5'-6"	3.28	389	3.69	430	4.10	472	5.16	608	5.75	661	6.38	713	7.11	837	7.88	901	8.66	967
5'-9"	3.37	405	3.78	451	4.20	495	5.29	635	5.89	690	6.53	744	7.28	874	8.07	940	8.85	1007
6'-0"	3.45	415	3.88	460	4.30	504	5.42	646	6.03	702	6.68	757	7.45	888	8.25	954	9.05	1022
6'-3"	3.53	425	3.97	470	4.41	515	5.55	661	6.17	718	6.83	773	7.63	908	8.44	975	9.24	1044
6'-6"	3.62	437	4.06	486	4.51	532	5.68	681	6.31	739	6.97	797	7.81	935	8.62	1005	9.43	1057
6'-9"	3.70	441	4.15	490	4.61	537	5.81	688	6.45	747	7.12	806	7.98	945	8.81	1015	9.63	1066
7'-0"	3.78	460	4.25	510	4.71	560	5.94	716	6.59	777	7.27	837	8.16	981	8.99	1053	9.82	1126
7'-3"	3.86	465	4.34	516	4.81	567	6.07	724	6.72	785	7.42	846	8.33	992	9.18	1065	10.02	1138
7'-6"	3.95	477	4.43	529	4.91	570	6.20	742	6.86	804	7.57	866	8.51	1016	9.36	1089	10.21	1163
7'-9"	4.03	491	4.53	544	5.02	597	6.33	762	7.00	826	7.71	890	8.67	1040	9.55	1116	10.41	1193
8'-0"	4.12	496	4.62	550	5.12	604	6.46	770	7.14	834	7.86	899	8.86	1051	9.73	1129	10.60	1205
8'-3"	4.20	504	4.71	559	5.22	613	6.59	784	7.28	849	8.01	915	9.04	1069	9.92	1149	10.80	1228
8'-6"	4.28	519	4.80	576	5.32	632	6.71	804	7.42	871	8.16	938	9.21	1107	10.10	1176	10.99	1257
8'-9"	4.37	528	4.90	586	5.42	643	6.84	819	7.56	886	8.31	954	9.39	1119	10.29	1199	11.18	1280
9'-0"	4.45	545	4.99	605	5.53	664	6.97	842	7.70	912	8.46	982	9.56	1148	10.47	1231	11.38	1313
9'-3"	4.53	554	5.08	614	5.63	674	7.10	858	7.84	929	8.60	999	9.74	1169	10.66	1252	11.57	1335
9'-6"	4.62	568	5.17	630	5.73	692	7.23	878	7.97	950	8.75	1022	9.92	1195	10.84	1280	11.77	1365
10'-0"	4.78	582	5.36	645	5.93	708	7.49	900	8.11	974	9.05	1048	10.27	1227	11.21	1312	12.16	1399

NOTE:

- FOR CONVENIENCE, DEPTHS OF INLETS SHOWN IN ABOVE TABLES ARE IN INCREMENTS OF 3 INCHES BUT ANY DEPTHS OTHER THAN THOSE SHOWN ABOVE MAY BE USED WHEREVER DEEMED NECESSARY. QUANTITIES FOR OTHER DEPTHS FALLING WITHIN THE LIMITS OF THE TABLE MAY BE FOUND BY INTERPOLATION.
- DEPTHS GREATER THAN 10' NEED TO BE STRUCTURALLY ENGINEERED.

CURB INLET
SUMMARY OF QUANTITIES

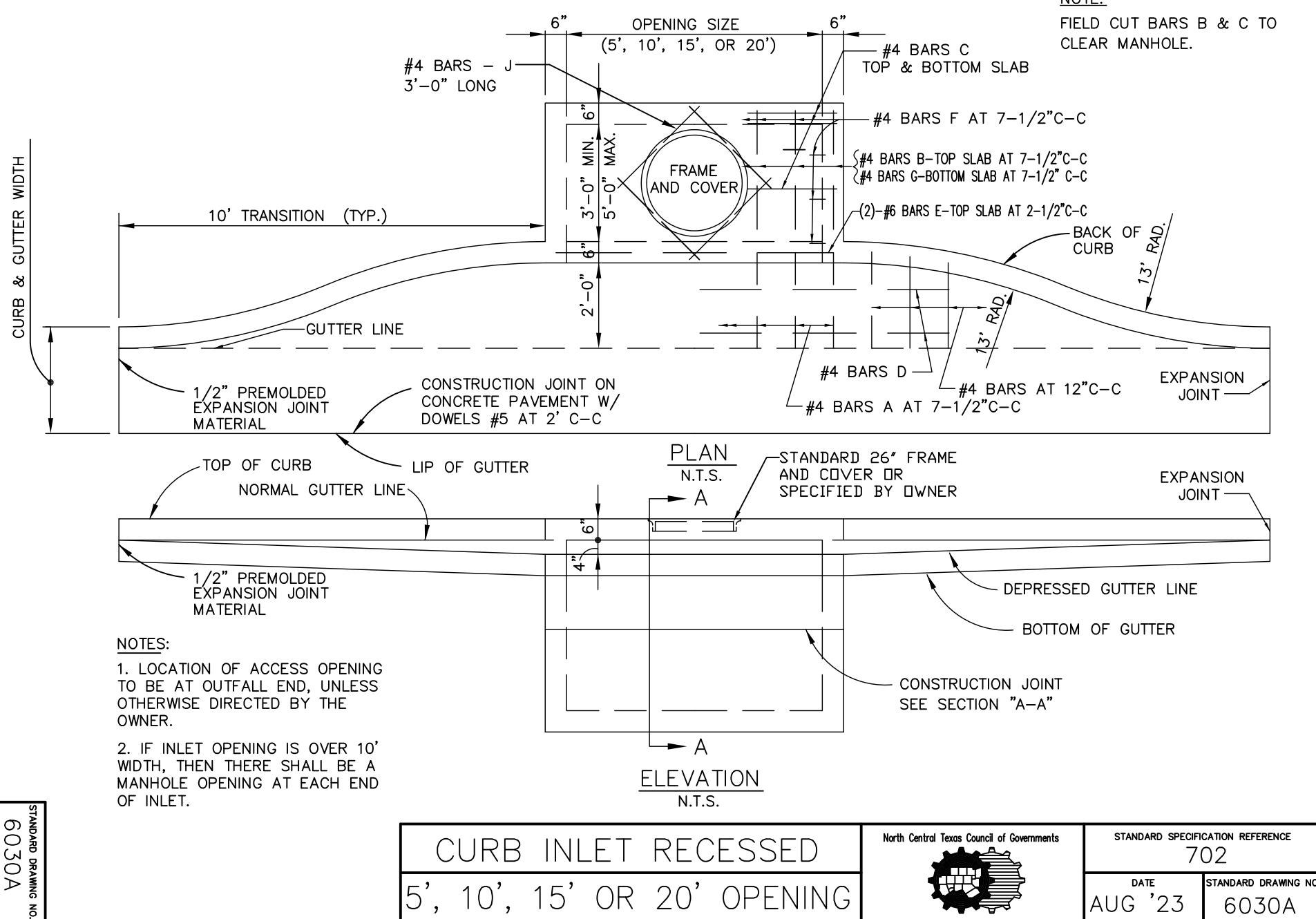
North Central Texas Council of Governments

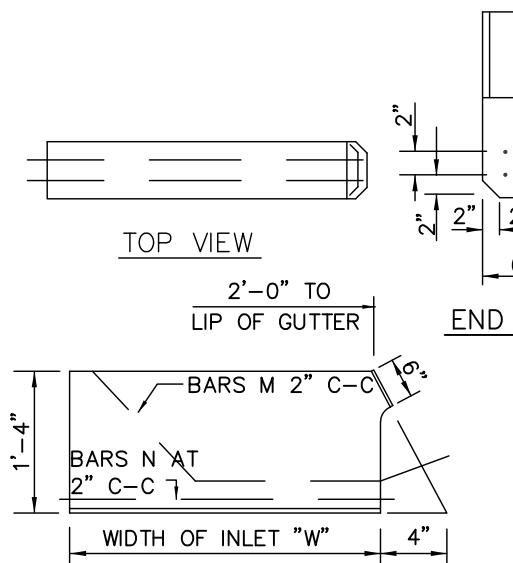


STANDARD SPECIFICATION REFERENCE

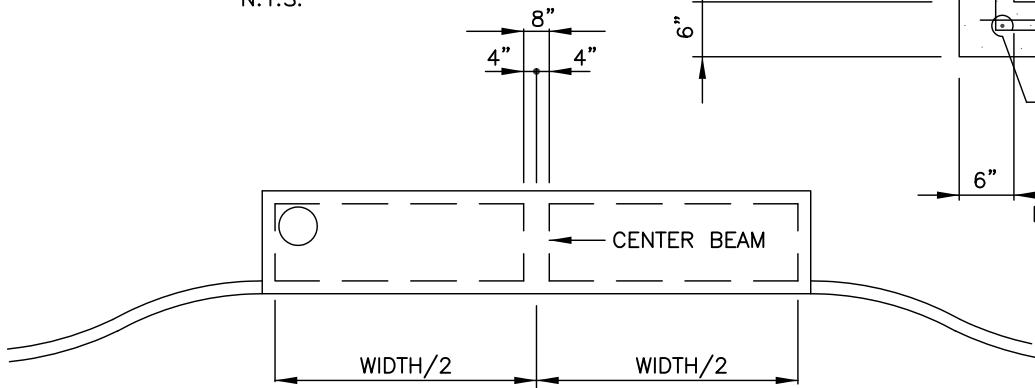
702

DATE
AUG '23
STANDARD DRAWING NO.
6020E





SIDE SECTION
TRANSVERSE BEAM DETAIL
(FOR USE WITH 15' & 20' INLETS)
N.T.S.



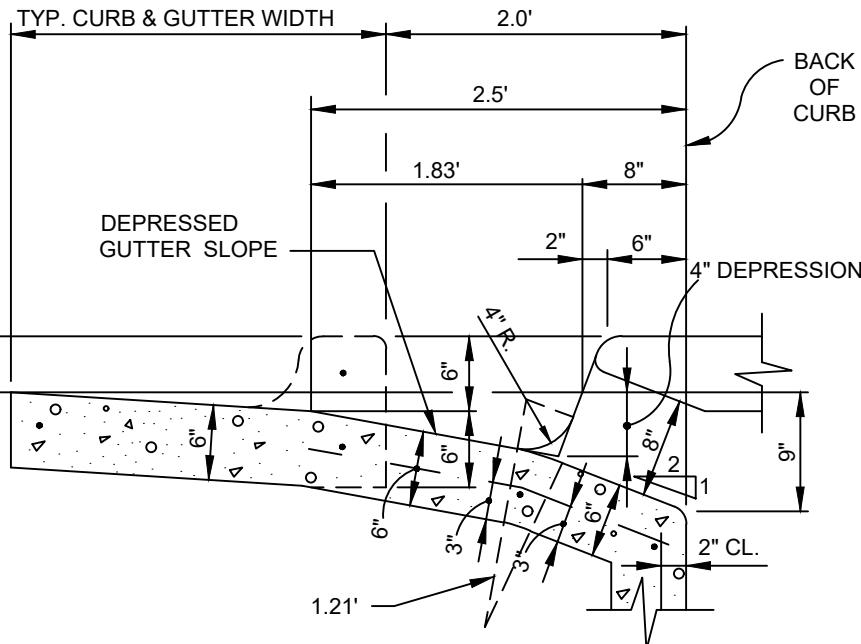
TRANSVERSE BEAM FOR
15' AND 20' INLETS
N.T.S.



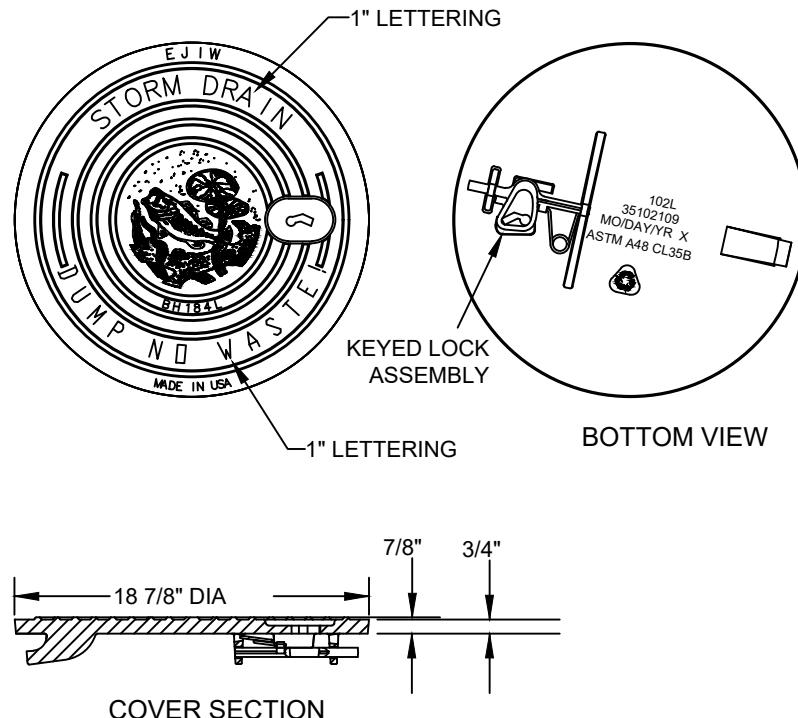
NOTE:

1. KEYWAY JOINT TO BE
MIN. 18" ABOVE
FLOWLINE, UNLESS
OTHERWISE APPROVED
BY ENGINEER.
2. MATCH PAVEMENT
THICKNESS TO
STREET, TYPICALLY 6".

4 1/4"



INLET THROAT
N.T.S.



MANHOLE FRAME & COVER
N.T.S.

EJW EAST JORDAN IRON WORKS EST. 1863	
800-626-4653	www.ejw.com
MADE IN USA	
PRODUCT NUMBER	35102209
CATALOG NUMBER	102 LOCK
LOCK COVER ASSEMBLY	
LOAD RATING	LIGHT DUTY
COATING	DIPPED
ESTIMATED WEIGHT	COVER: 60 LBS 27kg
MATERIAL SPECIFICATION	COVER - GRAY IRON ASTM A48 CL35B
OPEN AREA	N/A
DESIGNS MACHINED SURFACE	
DRAWN DEW	DATE 10/16/06
LAST REVISED DAL	DATE 07/13/07
REFERENCE INFORMATION	35102110

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M* - CITY OF MELISSA REVISION

CURB INLET RECESSED

INLET THROAT & M.H. FRAME & COVER

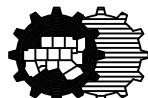


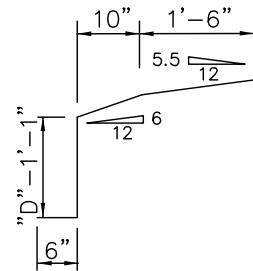
702	NCTCOG STANDARD SPECIFICATION REFERENCE
DATE 02/03/09	STANDARD DRAWING NO. 6030CM*

GENERAL NOTES:

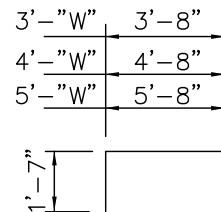
1. ALL REINFORCING STEEL SHALL BE GRADE 60. DEFORMED REINFORCING BARS AT A DIAMETER & LENGTH AS SHOWN.
2. ALL CONCRETE SHALL BE CLASS "C". ALL EXPOSED CORNERS SHALL BE CHAMFERED 3/4".
3. ALL REINFORCING STEEL SHALL HAVE A MINIMUM COVER OF 2" CLEAR OF THE BARS.
4. 10'-0" OF EXISTING CURB AND GUTTER UPSTREAM AND 10'-0" OF EXISTING CURB AND GUTTER DOWNSTREAM SHALL BE REMOVED AND REPOURED INTEGRALLY WITH EACH INLET.
5. ALL BACK FILLING SHALL BE PERFORMED BY MECHANICAL TAMPING TO 95% STANDARD PROCTOR DENSITY.
6. PRECAST PRODUCTS MAY BE USED AT THE APPROVAL OF THE OWNER.
7. ALLOW 1" MIN. CLEAR SPACE BETWEEN OD OF PIPE OR BOX AND INSIDE WALL OF INLET (OD OF PIPE OR BOX SHOULD ACCOUNT FOR SKEWED CONDITIONS).
8. FIELD CUT & BEND BARS AS NECESSARY TO ACCOMODATE STORM SEWER PIPE.
9. RING & COVER SHALL BE APPROVED BY THE OWNER AND INSTALLED BY CONTRACTOR.
10. WHEN POURING INVERTS, THE BOTTOM SHALL BE SLOPED NO MORE THAN 1/4"/FT TOWARD PIPE.
11. INLET OPENING SHALL BE 6" MIN OR 8" MAX.
12. 10 FT. MAX DEPTH.

STANDARD DRAWING NO.
6030D

CURB INLET RECESSED		North Central Texas Council of Governments 	STANDARD SPECIFICATION REFERENCE 702	
GENERAL NOTES			DATE AUG '23	STANDARD DRAWING NO. 6030D



#4 BARS A
N.T.S.



#4 BARS B
N.T.S.

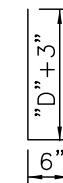


#4 BARS C & D
N.T.S.

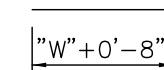
FIELD CUT D BARS
AS NECESSARY AT
TRANSITIONS



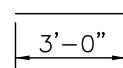
#4 BARS E
N.T.S.



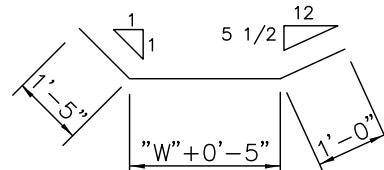
#4 BARS F
N.T.S.



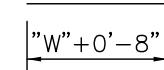
#4 BARS G
N.T.S.



#4 BARS J
N.T.S.



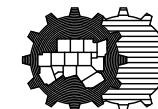
#3 BARS M
N.T.S.



#5 BARS N
N.T.S.

CURB INLET RECESSED
REBAR

North Central Texas Council of Governments



STANDARD SPECIFICATION REFERENCE

702

DATE	AUG '23
STANDARD DRAWING NO.	6030E

BILL OF REINFORCING STEEL

DEPTH "D"	ALL WIDTHS AND LENGTHS			OPENING LENGTH "L" = 5ft			OPENING LENGTH "L" = 10ft			OPENING LENGTH "L" = 15 ft			OPENING LENGTH "L" = 20 ft											
				Widths "W" 3ft 4ft 5ft			Widths "W" 3ft 4ft 5ft			Widths "W" 3ft 4ft 5ft			Widths "W" 3ft 4ft 5ft											
	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS					
	C	D	E	J	F	F	A	B	G	F	F	F	A	B	G	F	F	F	A	B	G	M	N	
3'-6"	17	3	2	4	20	24	28	10	10	20	28	32	36	18	18	28	36	40	44	26	26	36	2	2
3'-9"	18	"	"	"	"	"	"	"	20	"	"	"	"	"	28	"	"	"	"	36	"	"	"	"
4'-0"	19	"	"	"	"	"	"	"	24	"	"	"	"	"	32	"	"	"	"	40	"	"	"	"
4'-3"	19	"	"	"	"	"	"	"	24	"	"	"	"	"	32	"	"	"	"	40	"	"	"	"
4'-6"	21	"	"	"	"	"	"	"	26	"	"	"	"	"	34	"	"	"	"	42	"	"	"	"
4'-9"	21	"	"	"	"	"	"	"	26	"	"	"	"	"	34	"	"	"	"	42	"	"	"	"
5'-0"	21	"	"	"	"	"	"	"	26	"	"	"	"	"	34	"	"	"	"	42	"	"	"	"
5'-3"	23	"	"	"	"	"	"	"	28	"	"	"	"	"	36	"	"	"	"	44	"	"	"	"
5'-6"	23	"	"	"	"	"	"	"	28	"	"	"	"	"	36	"	"	"	"	44	"	"	"	"
5'-9"	25	"	"	"	"	"	"	"	30	"	"	"	"	"	38	"	"	"	"	46	"	"	"	"
6'-0"	25	"	"	"	"	"	"	"	30	"	"	"	"	"	38	"	"	"	"	46	"	"	"	"
6'-3"	26	"	"	"	"	"	"	"	30	"	"	"	"	"	38	"	"	"	"	46	"	"	"	"
6'-6"	27	"	"	"	"	"	"	"	32	"	"	"	"	"	40	"	"	"	"	48	"	"	"	"
6'-9"	27	"	"	"	"	"	"	"	32	"	"	"	"	"	40	"	"	"	"	48	"	"	"	"
7'-0"	29	"	"	"	"	"	"	"	34	"	"	"	"	"	42	"	"	"	"	50	"	"	"	"
7'-3"	29	"	"	"	"	"	"	"	34	"	"	"	"	"	42	"	"	"	"	50	"	"	"	"
7'-6"	30	"	"	"	"	"	"	"	34	"	"	"	"	"	42	"	"	"	"	50	"	"	"	"
7'-9"	31	"	"	"	"	"	"	"	36	"	"	"	"	"	44	"	"	"	"	52	"	"	"	"
8'-0"	31	"	"	"	"	"	"	"	36	"	"	"	"	"	44	"	"	"	"	52	"	"	"	"
8'-3"	32	"	"	"	"	"	"	"	36	"	"	"	"	"	44	"	"	"	"	52	"	"	"	"
8'-6"	33	"	"	"	"	"	"	"	38	"	"	"	"	"	46	"	"	"	"	54	"	"	"	"
8'-9"	34	"	"	"	"	"	"	"	38	"	"	"	"	"	46	"	"	"	"	54	"	"	"	"
9'-0"	35	"	"	"	"	"	"	"	40	"	"	"	"	"	48	"	"	"	"	56	"	"	"	"
9'-3"	36	"	"	"	"	"	"	"	40	"	"	"	"	"	48	"	"	"	"	56	"	"	"	"
9'-6"	37	"	"	"	"	"	"	"	42	"	"	"	"	"	50	"	"	"	"	58	"	"	"	"
10'-0"	38	"	"	"	"	"	"	"	42	"	"	"	"	"	50	"	"	"	"	58	"	"	"	"

NOTE:

- FOR CONVENIENCE, DEPTHS OF INLETS SHOWN IN ABOVE TABLES ARE IN INCREMENTS OF 3 INCHES BUT ANY DEPTHS OTHER THAN THOSE SHOWN ABOVE MAY BE USED WHEREVER DEEMED NECESSARY. QUANTITIES FOR OTHER DEPTHS FALLING WITHIN THE LIMITS OF THE TABLE MAY BE FOUND BY INTERPOLATION.
- DEPTHS GREATER THAN 10' NEED TO BE STRUCTURALLY ENGINEERED.

STANDARD DRAWING NO.
6030F

CURB INLET RECESSED
BILL OF REINFORCING STEEL

North Central Texas Council of Governments



STANDARD SPECIFICATION REFERENCE

702

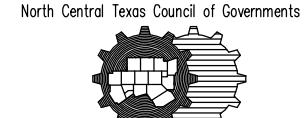
DATE AUG '23
STANDARD DRAWING NO. 6030F

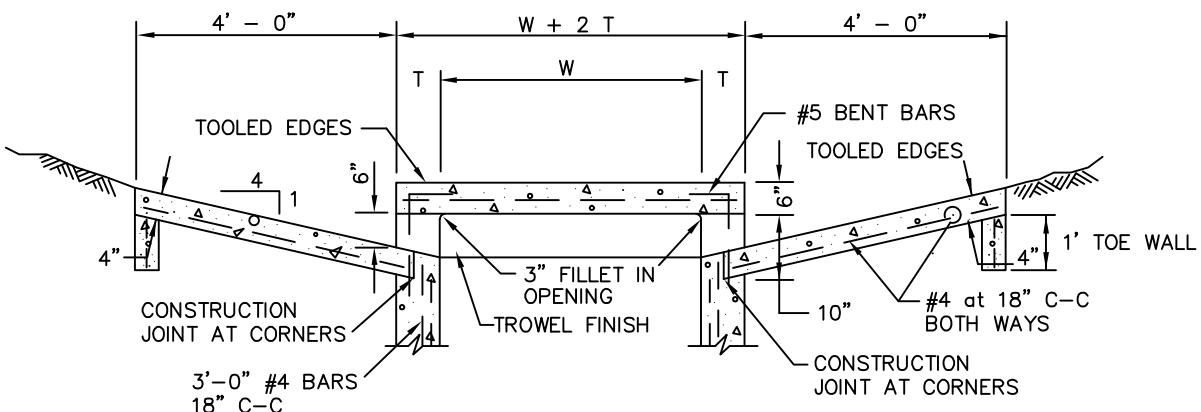
SUMMARY OF QUANTITIES FOR CURB INLETS

DEPTH "D"	5'-0" OPENING						10'-0" OPENING						15'-0" OPENING						20'-0" OPENING					
	WIDTH 3'-0"	WIDTH 4'-0"	WIDTH 5'-0"	WIDTH 3'-0"	WIDTH 4'-0"	WIDTH 5'-0"	WIDTH 3'-0"	WIDTH 4'-0"	WIDTH 5'-0"	WIDTH 3'-0"	WIDTH 4'-0"	WIDTH 5'-0"	WIDTH 3'-0"	WIDTH 4'-0"	WIDTH 5'-0"	WIDTH 3'-0"	WIDTH 4'-0"	WIDTH 5'-0"	WIDTH 3'-0"	WIDTH 4'-0"	WIDTH 5'-0"			
	CONC C.Y.	STEEL LBS.	CONC C.Y.	STEEL LBS.	CONC C.Y.	STEEL LBS.	CONC C.Y.	STEEL LBS.	CONC C.Y.	STEEL LBS.	CONC C.Y.	STEEL LBS.	CONC C.Y.	STEEL LBS.	CONC C.Y.	STEEL LBS.	CONC C.Y.	STEEL LBS.	CONC C.Y.	STEEL LBS.	CONC C.Y.	STEEL LBS.		
3'-6"	2.87	324	3.23	357	3.59	390	4.41	496	4.95	540	5.50	584	5.94	684	6.67	742	7.40	799	7.48	858	8.40	926	9.31	995
3'-9"	2.96	333	3.32	367	3.69	401	4.54	512	5.09	556	5.64	601	6.12	706	6.86	764	7.60	822	7.70	886	8.63	955	9.55	1024
4'-0"	3.04	353	3.42	390	3.79	428	4.66	537	5.23	585	5.79	633	6.29	737	7.04	799	7.79	861	7.92	923	8.86	996	9.79	1068
4'-3"	3.12	358	3.51	396	3.89	434	4.79	545	5.37	594	5.94	643	6.47	748	7.23	811	7.99	873	8.14	937	9.09	1010	10.03	1083
4'-6"	3.21	376	3.60	417	4.00	457	4.92	573	5.51	624	6.09	675	6.64	786	7.41	850	8.18	915	8.36	984	9.32	1059	10.27	1134
4'-9"	3.29	382	3.69	423	4.10	464	5.05	581	5.65	633	6.24	684	6.82	796	7.60	862	8.37	927	8.59	997	9.55	1073	10.51	1149
5'-0"	3.37	387	3.79	429	4.20	471	5.18	589	5.79	641	6.38	693	7.00	807	7.78	873	8.57	939	8.81	1011	9.78	1087	10.75	1164
5'-3"	3.46	406	3.88	450	4.30	493	5.31	617	5.92	671	6.53	725	7.17	845	7.97	912	8.76	980	9.03	1057	10.02	1136	10.99	1215
5'-6"	3.54	411	3.97	456	4.40	500	5.44	625	6.06	680	6.68	735	7.35	855	8.15	924	8.96	992	9.25	1071	10.25	1150	11.23	1229
5'-9"	3.62	429	4.06	476	4.50	523	5.57	653	6.20	710	6.83	767	7.52	893	8.34	963	9.15	1034	9.48	1118	10.48	1199	11.48	1280
6'-0"	3.71	435	4.16	482	4.61	530	5.70	661	6.34	719	6.98	776	7.70	903	8.53	975	9.35	1046	9.70	1131	10.71	1213	11.72	1295
6'-3"	3.79	444	4.25	492	4.71	540	5.83	676	6.48	735	7.12	793	7.88	925	8.71	997	9.54	1069	9.92	1159	10.94	1242	11.96	1324
6'-6"	3.87	459	4.34	509	4.81	559	5.96	697	6.62	757	7.27	818	8.05	952	8.90	1026	9.74	1100	10.14	1191	11.17	1276	12.20	1361
6'-9"	3.96	464	4.43	515	4.91	566	6.09	705	6.76	766	7.42	827	8.23	962	9.08	1037	9.93	1112	10.36	1205	11.40	1290	12.44	1376
7'-0"	4.04	482	4.53	536	5.01	589	6.22	733	6.90	796	7.57	859	8.40	1000	9.27	1077	10.12	1154	10.59	1252	11.64	1339	12.68	1427
7'-3"	4.12	488	4.62	542	5.12	595	6.35	741	7.04	805	7.72	869	8.58	1010	9.45	1088	10.32	1166	10.81	1265	11.87	1353	12.92	1442
7'-6"	4.21	497	4.71	552	5.22	606	6.48	756	7.17	821	7.87	885	8.76	1032	9.64	1110	10.51	1189	11.03	1293	12.10	1382	13.16	1471
7'-9"	4.29	512	4.80	568	5.32	625	6.61	777	7.31	843	8.01	910	8.93	1059	9.82	1139	10.71	1219	11.25	1326	12.33	1417	13.40	1508
8'-0"	4.37	517	4.90	574	5.42	632	6.74	785	7.45	852	8.16	919	9.11	1069	10.01	1150	10.90	1231	11.48	1339	12.56	1431	13.64	1522
8'-3"	4.46	526	4.99	584	5.52	642	6.87	800	7.59	868	8.31	936	9.28	1091	10.19	1173	11.10	1254	11.70	1367	12.79	1459	13.88	1551
8'-6"	4.54	541	5.08	601	5.63	661	7.00	820	7.73	891	8.46	961	9.46	1118	10.38	1201	11.29	1285	11.92	1399	13.02	1494	14.12	1588
8'-9"	4.62	550	5.17	611	5.73	672	7.13	836	7.87	907	8.61	978	9.64	1139	10.56	1224	11.49	1308	12.14	1427	13.26	1522	14.36	1617
9'-0"	4.71	565	5.27	628	5.83	691	7.26	856	8.01	929	8.75	1002	9.81	1166	10.75	1252	11.68	1339	12.36	1460	13.49	1557	14.60	1654
9'-3"	4.79	574	5.36	638	5.93	701	7.39	872	8.15	945	8.90	1019	9.99	1187	10.93	1275	11.87	1362	12.59	1487	13.72	1585	14.85	1683
9'-6"	4.87	588	5.45	654	6.03	720	7.52	892	8.29	968	9.05	1044	10.16	1214	11.12	1303	12.07	1393	12.81	1520	13.95	1620	15.09	1720
10'-0"	5.04	603	5.64	670	6.24	738	7.78	916	8.56	993	9.35	1070	10.51	1246	11.49	1337	12.46	1428	13.25	1561	14.41	1662	15.57	1764

NOTE:

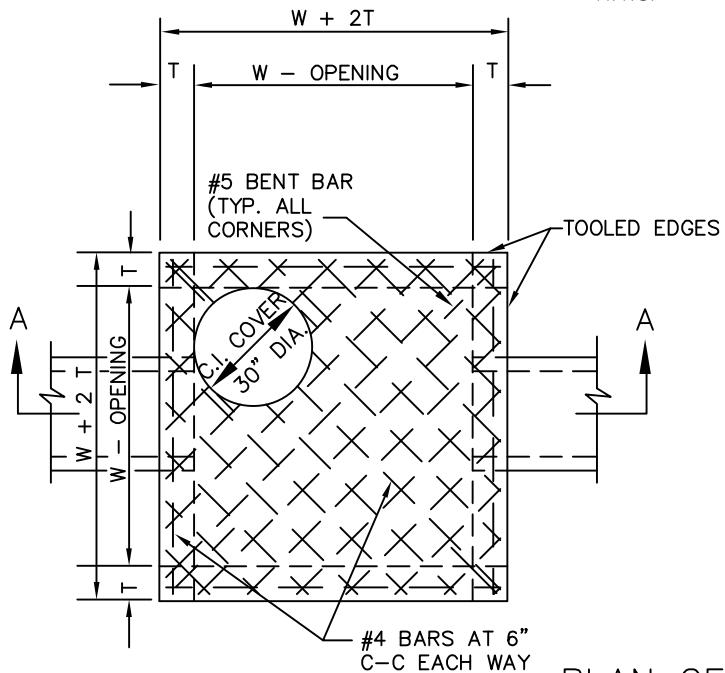
- FOR CONVENIENCE, DEPTHS OF INLETS SHOWN IN ABOVE TABLES ARE IN INCREMENTS OF 3 INCHES BUT ANY DEPTHS OTHER THAN THOSE SHOWN ABOVE MAY BE USED WHEREVER DEEMED NECESSARY. QUANTITIES FOR OTHER DEPTHS FALLING WITHIN THE LIMITS OF THE TABLE MAY BE FOUND BY INTERPOLATION.
- DEPTHS GREATER THAN 10' NEED TO BE STRUCTURALLY ENGINEERED.

 CURB INLET RECESSED
SUMMARY OF QUANTITIES

 STANDARD SPECIFICATION REFERENCE
702
DATE AUG '23
STANDARD DRAWING NO. 6030G



SECTION "A-A"

N.T.S.



INLET SIZE	T	W
2' SQUARE	7"	2'-0"
4' SQUARE	7"	4'-0"
5' SQUARE	8"	5'-0"
6' SQUARE	9"	6'-0"

PLAN OF TOP SLAB

N.T.S.

NOTES:

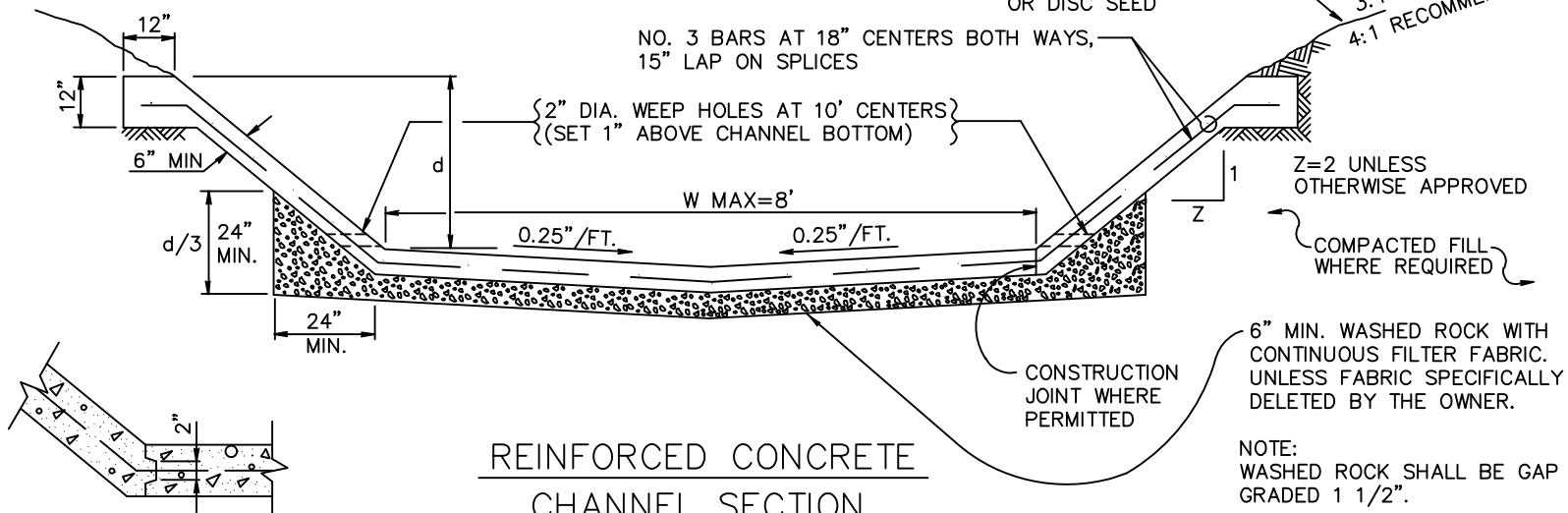
1. MATERIAL AND WORKMANSHIP SHALL CONFORM WITH THE REQUIREMENTS OF NCTCOG STANDARD SPECIFICATIONS FOR STANDARD CONCRETE MANHOLES. MINIMUM CLASS "C" CONCRETE.
2. LAYERS OF REINFORCING STEEL NEAREST THE INTERIOR AND EXTERIOR SURFACES SHALL HAVE A COVER OF 2" CLEAR OF BARS, UNLESS OTHERWISE NOTED.
3. FOR DETAILS OF REINFORCING OF LOWER PORTION OF INLET SEE APPROPRIATE SQUARE MANHOLE DETAILS.
4. 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.
5. ALL STANDARD DROP INLETS SHALL HAVE ONE OPENING ON EACH SIDE UNLESS OTHERWISE SHOWN ON PLANS.
6. TOP SLAB MAY BE REINFORCED SAME AS 4' SQUARE MANHOLE.
7. PRECAST PRODUCTS MAY BE USED AT THE APPROVAL OF THE OWNER.
8. ALLOW 1" MIN CLEAR SPACE BETWEEN OD OF PIPE OR BOX AND INSIDE WALL OF INLET (OD OF PIPE OR BOX SHOULD ACCOUNT FOR SKEWED CONDITIONS).
9. DEPTHS OF GREATER THAN 10' NEED TO BE STRUCTURALLY ENGINEERED.

DROP INLET 2', 4', 5', OR 6' SQUARE		North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE 702	
			DATE AUG '23	STANDARD DRAWING NO. 6040

FILL AREAS SHALL BE COMPACTED TO 95% STD. PROCTOR DENSITY AT OPTIMUM MOISTURE CONTENT PRIOR TO CHANNEL EXCAVATION.

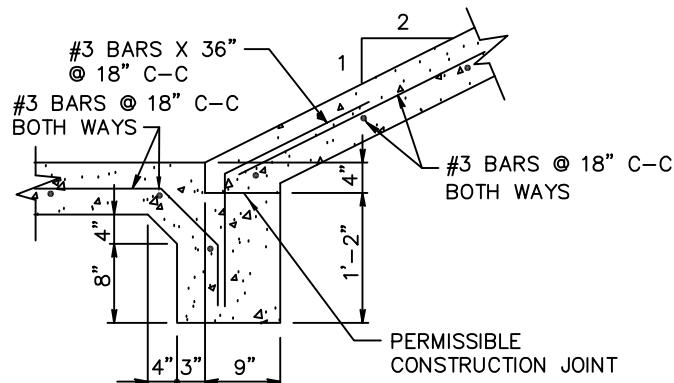
* GEO TEXTILE RECOMMENDED AT CONNECTION OF TOP OF SLOPE TO EARTHEN MATERIAL.

ALL CONCRETE SHALL BE CLASS "A"



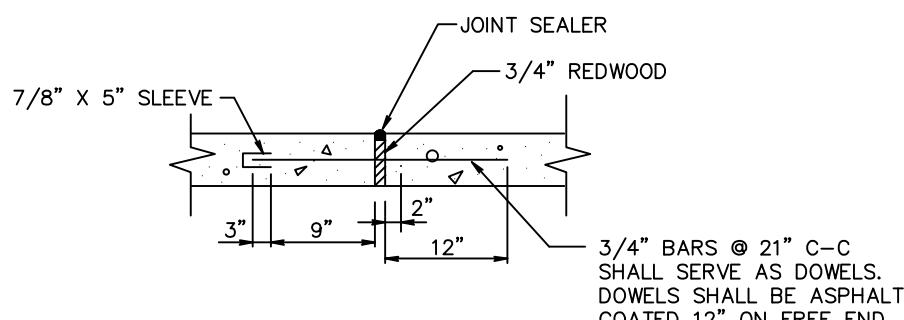
CONSTRUCTION JOINT

N.T.S.



ALTERNATE CONSTRUCTION JOINT

N.T.S.



TRANSVERSE EXPANSION JOINT

SPACE 100' C-C AND USE AT ENDS OF CURVES - P.C. AND P.T.
N.T.S.

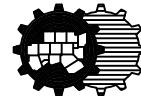
*REFER TO ISWM FOR ALTERNATE BIOSWALE OPTIONS

LOW FLOW CHANNEL LINING
CONCRETE REINFORCED

North Central Texas Council of Governments

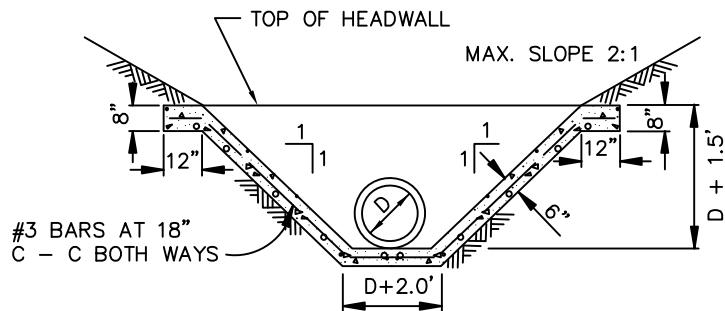
STANDARD SPECIFICATION REFERENCE

803.3



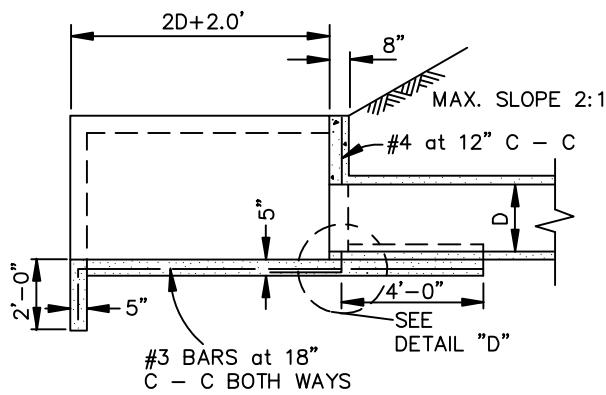
DATE
AUG '23

STANDARD DRAWING NO.
6050



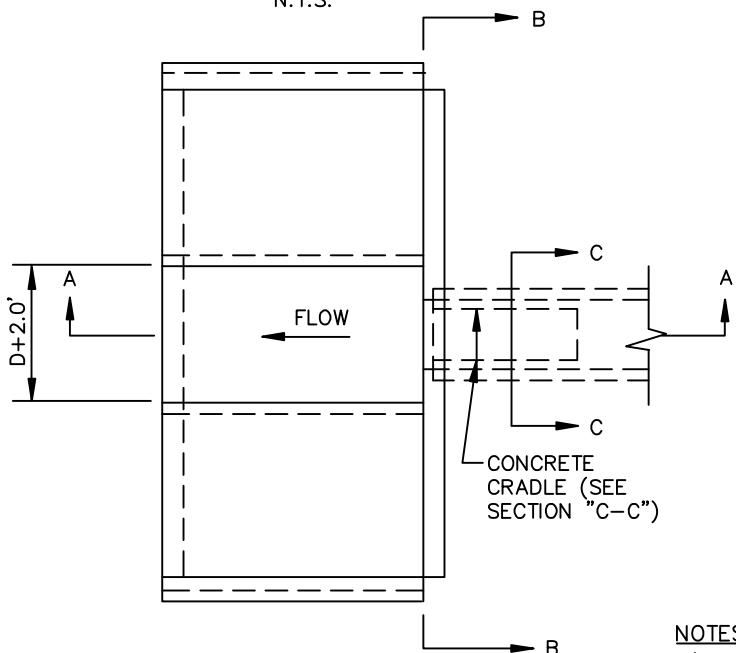
SECTION "B-B"

N.T.S.

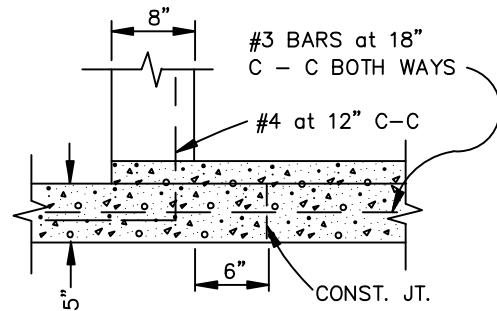


SECTION "A-A"

N.T.S.

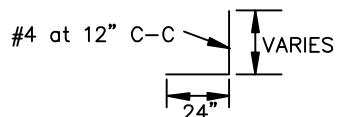


PLAN
N.T.S.



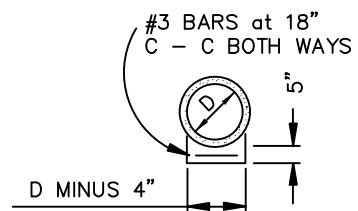
DETAIL "D"

N.T.S.



BAR DETAIL

N.T.S.



SECTION "C-C"

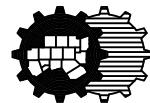
N.T.S.

NOTES:

1. CONCRETE SHALL BE CLASS "C"
2. SEE TXDOT DETAILS FOR ADDITIONAL HEADWALL OPTIONS.

CONCRETE APRON
VERTICAL HEADWALL

North Central Texas Council of Governments

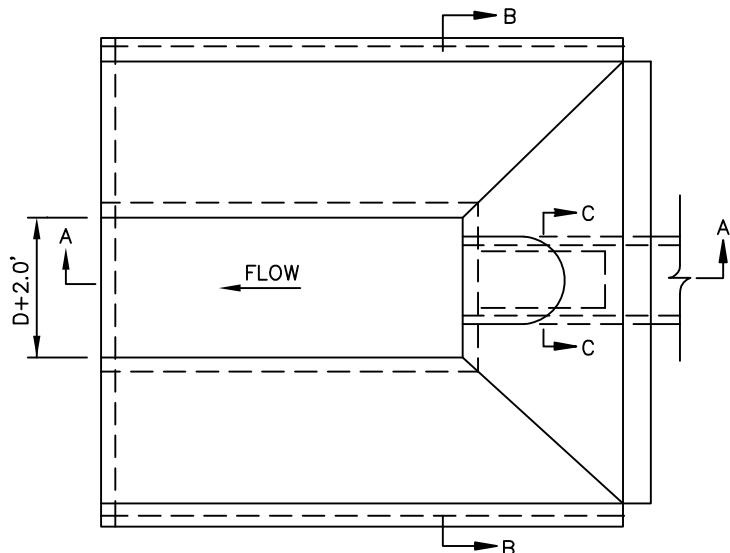


STANDARD SPECIFICATION REFERENCE

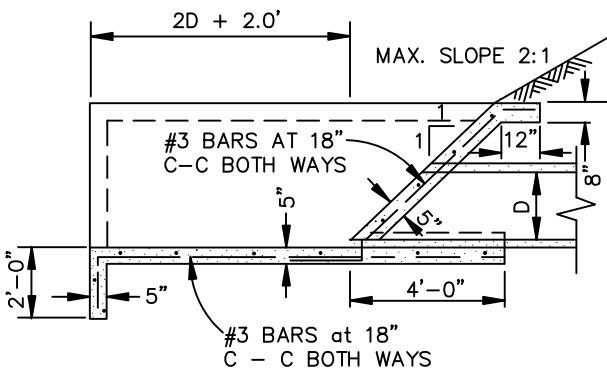
803.3

DATE
AUG '23

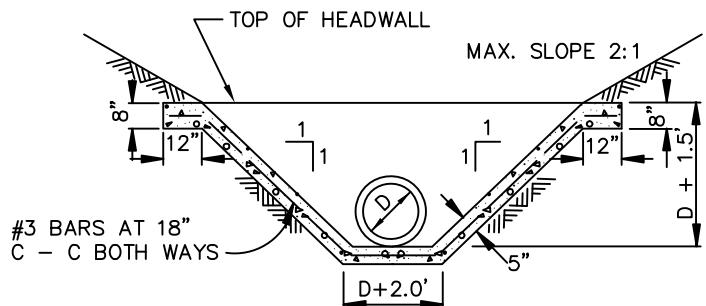
STANDARD DRAWING NO.
6060



PLAN
N.T.S.



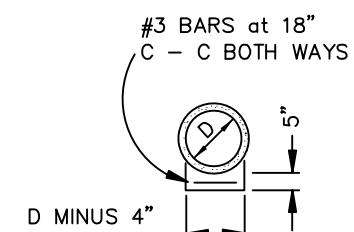
SECTION A-A
N.T.S.



SECTION B-B
N.T.S.

NOTES:

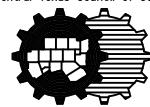
1. CONCRETE SHALL BE CLASS "A".
2. WHEN SITE IT NOT APPLICABLE, SEE TXDOT



SECTION C-C
N.T.S.

CONCRETE APRON
SLOPING HEADWALL

North Central Texas Council of Governments



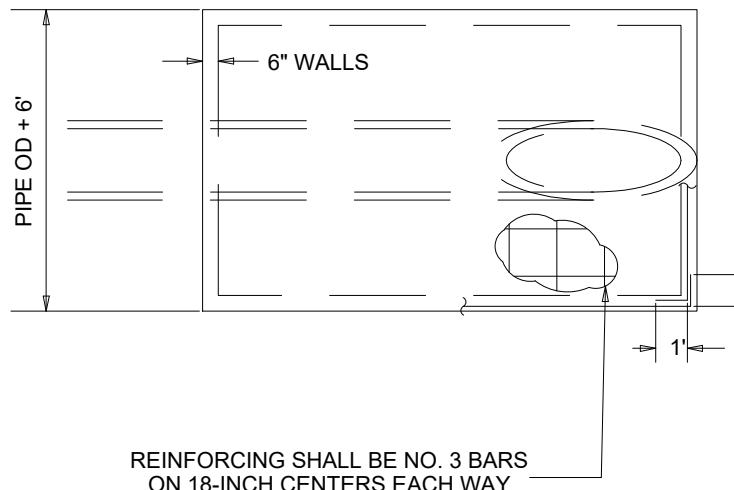
STANDARD SPECIFICATION REFERENCE

803.3

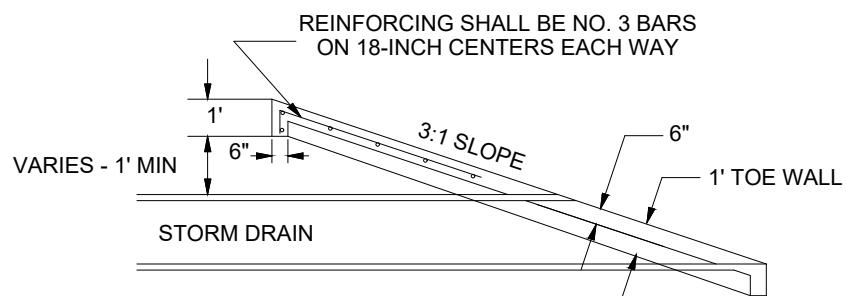
DATE
AUG '23

STANDARD DRAWING NO.
6070

A



A



SECTION A-A

NOTE:

CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.

M* - CITY OF MELISSA REVISION

SLOPED END HEADWALL

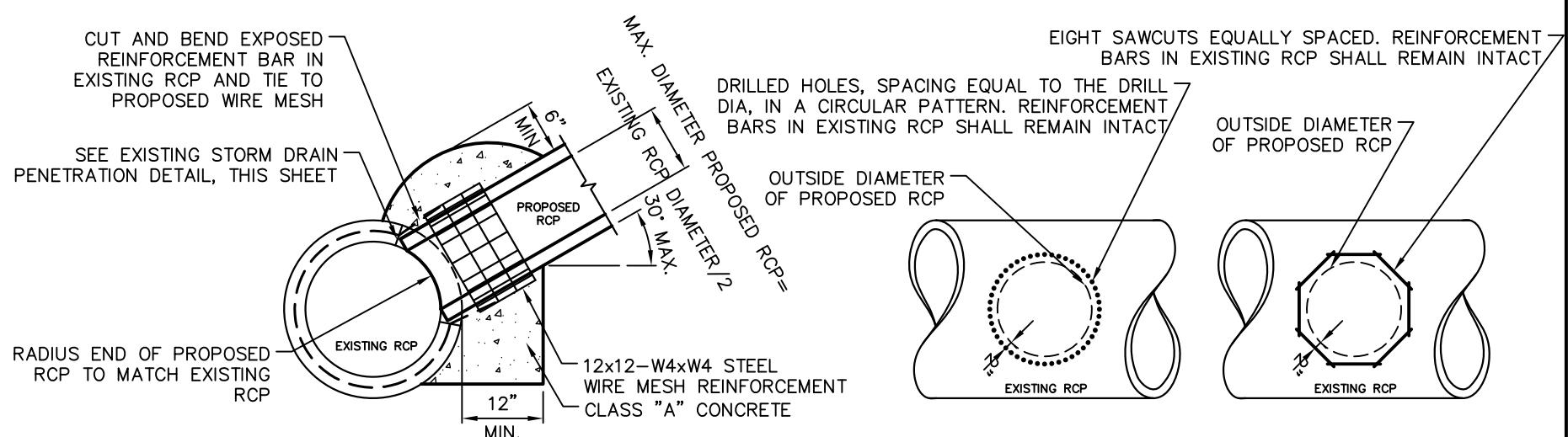
CITY OF MELISSA, TEXAS



NCTCOG STANDARD SPECIFICATION REFERENCE

DATE
12/04/03

STANDARD DRAWING NO.
6070AM*



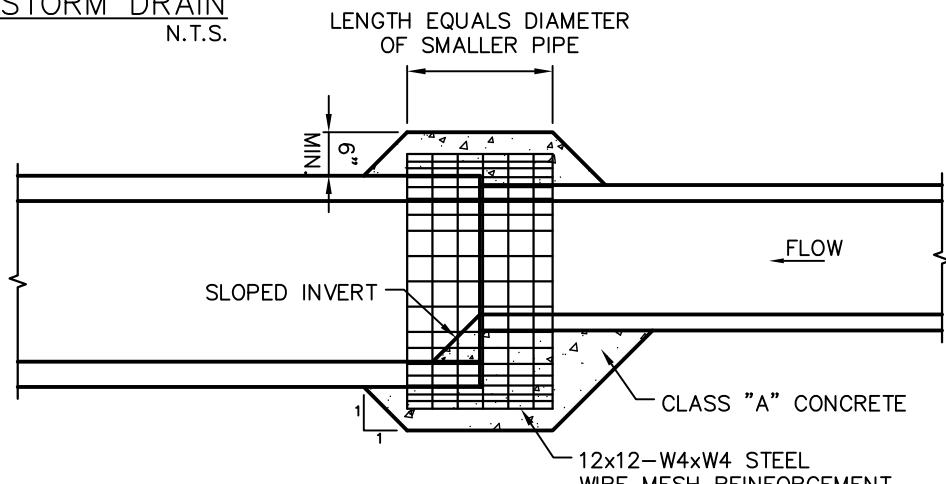
CONNECTION OF PROPOSED TO EXISTING RCP STORM DRAIN

N.T.S.

N.T.S.

NOTES:

1. THE CONNECTION METHODS SHOWN ON THIS DETAIL SHALL ONLY BE EMPLOYED WHEN THE USE OF A PREFABRICATED RCP CONNECTION IS NOT POSSIBLE, AND WITH THE APPROVAL OF THE OWNER.
2. NO. 3 BARS ON 6" CTRS. MAY BE USED IN PLACE OF WIRE MESH REINFORCEMENT.
3. FOR OTHER PIPE MATERIALS, REFER TO MANUFACTURER'S DETAILS.

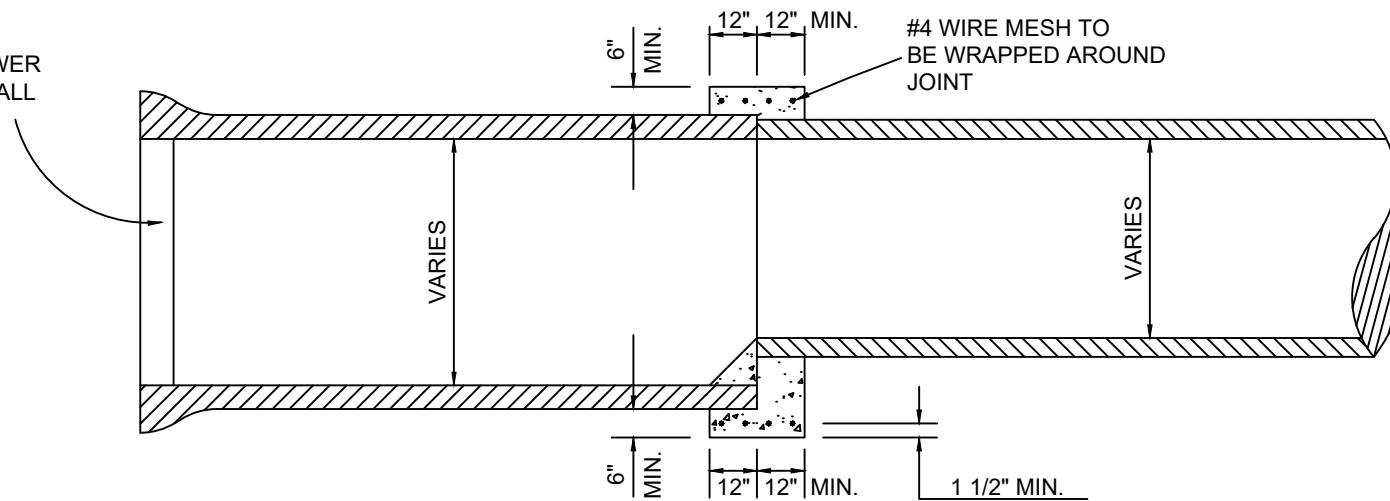


PIPE COLLAR FOR FIELD CONNECTION

N.T.S.



ALL STORM SEWER
PIPE PLUGS SHALL
BE CONCRETE



DETAIL OF CONCRETE COLLAR FOR PIPE CONNECTIONS

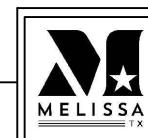
NOTES:

1. CONCRETE SHALL BE
CLASS A CONCRETE
(3,000 PSI)

N.T.S.

M* - CITY OF MELISSA REVISION

NCTCOG STANDARD SPECIFICATION REFERENCE



MODIFIED DATE	STANDARD DRAWING NO.
01/12/17	6080M*
NOTICE DATE	APPLIED DATE
01/12/17	01/12/17
ENFORCED DATE	
02/12/17	

CONCRETE COLLAR
FOR PIPE CONNECTIONS

TYPICAL MAINTENANCE ACTIVITIES FOR PONDS

ACTIVITY	SCHEDULE
<ul style="list-style-type: none"> • CLEAN AND REMOVE DEBRIS FROM INLET AND OUTLET STRUCTURES • MOW WIDE SLOPES • CHECK VISUALLY FOR ILLEGAL DUMPING OR OTHER POLLUTANTS 	MONTHLY
<ul style="list-style-type: none"> • IF WETLAND COMPONENTS ARE INCLUDED, INSPECT FOR INVASIVE VEGETATION 	SEMIANNUAL INSPECTION
<ul style="list-style-type: none"> • INSPECT FOR DAMAGE, PAYING PARTICULAR ATTENTION TO THE CONTROL STRUCTURE • CHECK FOR SIGNS OF EUTROPHIC CONDITIONS • NOTE SIGNS OF HYDROCARBON BUILD-UP, AND REMOVE APPROPRIATELY • MONITOR FOR SEDIMENT ACCUMULATION IN THE FACILITY AND FOREBAY • EXAMINE TO ENSURE THAT INLET AND OUTLET DEVICES ARE FREE OF DEBRIS AND OPERATIONAL • CHECK ALL CONTROL GATES, VALVES OR OTHER MECHANICAL DEVICES • CHECK THE DOWNSTREAM FACE OF DAM FOR SEEPAGE(EARTH AND CONCRETE), SETTLING (EARTH) AND CRACKING (CONCRETE) 	ANNUAL INSPECTION
<ul style="list-style-type: none"> • REPAIR UNDERCUT OR ERODED AREAS 	AS NEEDED
<ul style="list-style-type: none"> • PERFORM WETLAND PLANT MANAGEMENT AND HARVESTING 	ANNUALLY (IF NEEDED)
<ul style="list-style-type: none"> • REMOVE SEDIMENT FROM THE FOREBAY 	5 TO 7 YEARS OR AFTER 50% OF THE TOTAL FOREBAY HAS BEEN LOST
<ul style="list-style-type: none"> • MONITOR SEDIMENT ACCUMULATIONS, AND REMOVE SEDIMENT WHEN THE POOL VOLUME HAS BECOME REDUCED SIGNIFICANTLY, OR THE POND BECOMES EUTROPHIC 	10 TO 20 YEARS AFTER 25% OF THE PERMANENT POOL VOLUME HAS BEEN LOST

NOTES:

- A SEDIMENT MARKER SHOULD BE LOCATED IN THE FOREBAY TO DETERMINE WHEN SEDIMENT REMOVAL IS REQUIRED
- SEDIMENTS EXCAVATED FROM STORMWATER PONDS THAT DO NOT RECEIVE RUNOFF FROM DESIGNATED HOTSPOTS ARE NOT CONSIDERED TOXIC OR HAZARDOUS MATERIAL AND CAN BE SAFELY DISPOSED OF BY EITHER LAND APPLICATION OR LANDFILLING. SEDIMENT TESTING MAY BE REQUIRED PRIOR TO SEDIMENT DISPOSAL WHEN A HOTSPOT LAND USE IS PRESENT
- PERIODIC MOWING OF THE POND BUFFER IS ONLY REQUIRED ALONG MAINTENANCE RIGHTS-OF-WAY AND THE EMBANKMENT. THE REMAINING BUFFER CAN BE MANAGED AS A MEADOW (MOWING EVERY OTHER YEAR) OR FOREST.
- CARE SHOULD BE EXERCISED DURING POND DRAWDOWNS TO PREVENT DOWNSTREAM DISCHARGE OF SEDIMENTS, ANOXIC WATER, OR HIGH FLOWS WITH EROSION VELOCITIES. THE APPROVING JURISDICTION SHOULD BE NOTIFIED BEFORE DRAINING A STORMWATER POND.
- REGULAR INSPECTION AND MAINTENANCE IS CRITICAL TO THE EFFECTIVE OPERATION OF STORMWATER PONDS AS DESIGNED. MAINTENANCE RESPONSIBILITY FOR A POND AND ITS BUFFER SHOULD BE VESTED WITH A RESPONSIBLE AUTHORITY BY MEANS OF A LEGALLY BINDING AND ENFORCEABLE MAINTENANCE AGREEMENT THAT IS EXECUTED AS A CONDITION OF PLAN APPROVAL.

M* - CITY OF MELISSA REVISION

ISWM TECHNICAL MANUAL REFERENCE



22.7

MODIFIED DATE
7/6/19

STANDARD DRAWING NO.
6090M*

STORMWATER POND INSPECTION AND MAINTENANCE REQUIREMENTS

CITY OF MELISSA, TEXAS

NOTICE DATE
7/11/19

APPLIED DATE
7/11/19

ENFORCED DATE
8/11/19