

PERMIT APPLICATION REVIEW FORM FOR CABLE, CONDUIT, AND POLE LINE ACTIVITY IN FORT BEND COUNTY

Fort Bend County Engineering Department 301 Jackson Suite 401

Richmond, Texas 77469 281.633.7500 Permits@fortbendcountytx.gov

	Right of Way Permit
X	Commercial Driveway Permit
Perr	nit No: 2017-15997

		e activity in Fort Bend County" and accompanyi ropriate regulations set by Commissioner's Cour
of Fort Bend County, Texas.		
1) COMPLETE APPLICATION FORM:		
a. Name of road, street, and/or	_	ected.
b. Vicinity map showing course	of directions	
X c. Plans and specifications		
2) BOND:		
County Attorney, approval whe applicable.	n	
Perpetual bond currently posted.	Bond No:	Amount:
X Performance bond submitted.	Bond No:	Amount: \$10,000.00
Cashier's Check	Check No:	Amount:
Drainage District Approval	EN APPLICABLE):	Date
Ve have reviewed this project and agree it recommends that the second se	neets minimum req	quirements. 10/13/2017
Permit Administrator		
S		240



REVIEW BY FORT BEND COUNTY COMMISSIONERS COURT

Fort Bend County Engineering Department 301 Jackson Suite 401

301 Jackson Suite 401 Richmond, Texas 77469 281.633.7500

Permits@fortbendcountytx.gov

-	Right of Wax X Commercia Permit No: 2017	al Driveway Permit	
	licant: SVBF, Inc/DP Design Location Site: 10323 Clodine Road, Richmon	d, TX 77407	
Bond	d No Date of Bond:10	0/1/2017 Amount:	\$10,000.00
Layin Road Comi of the	above applicant came to make use of certain Forting, Construction, Maintenance, and Repair of Burids, Streets, Highways, and Drainage Ditches in Formissioners Court of Fort Bend County, Texas," as e Minutes of the Commissioners Court of Fort Bensistant with Chapter 181, Vernon's Texas Statute	ed Cables, Conduits, and Po t Bend County, Texas, Unde passed by the Commissione nd County, Texas, to the ext	ole Lines, In, Under, Across or Along r the Jurisdiction of the ers Court of Fort Bend County, Texas,
Note 1. 2.	Es: Evidence of review by the Commissioners Courgrounds for job shutdown. Written notices are required: a. 48 hours in advance of construction. When construction is completed and Administrator thru MyGovernment and Administrator thru MyGovernment.	on start up, and and ready for final inspectio atOnline.org portal.	n, submit notification to Permit
Comi notic	his <u>24th</u> day of <u>October, 2017</u> , Upon Motion of Comissioner, duly put the of said above purpose is hereby acknowledged said notice be placed on record according to the said notice to the said	and carried, it is ORDERED, by the Commissioners Cour	
Signa	ature	Presented to Commissi	ioners Court and approved.
Ву:	Charly O. Aff County Engineer	Date Recorded	Comm. Court No
By:	N/A	Clerk of Commissioner	s Court
	Drainage District Engineer/Manager		

PERFORMANCE BOND COVERING ALL CABLE, CONDUIT AND/OR POLE LINE ACTIVITY IN, UNDER, ACROSS OR ALONG FORT BEND COUNTY ROAD

AUTHORIZED

THE	STA	TE	OF	TEX	ZAC

BOND NO

KNOW ALL MEN BY THESE PRESENTS:

~~	T'S Trans Y	~	E-1 - W	
		4 1 1	HI BIZ I	BEND
-		U	LVIVI	121.31

COUNTY OF FORT BEND §	
THAT WE, SVBF, Inc.	whose
address is 5 Yates Drive, East Brunswick, NJ 08816	Texas, hereinafter called the Principal,
And Nationwide Mutual Insurance Company	, a Corporation existing under and by virtue of
principal office is located at 1100 Locust St. Dept 2006 Des Moines, IA 50391-2006	mnifying business in the state of Texas, and whose , whose officer residing
in the State of Texas, authorized to accept service in all suits and action Whose address is1100 Locust St. Dept 2006 Des Moines, IA 50391-2006	s brought whining said state is lowa and hereinafter called the Surety, and held and
firmly bound unto, Robert e. Hebert, County Judge of Fort Bend Cou	nty, Texas, or his successors in office, in the full sum _) current, lawful money of the United Stated of
America, to be paid to said Robert E. Hebert, County Judge of Fort which payment well and truly to be made and done, we, the unde executors, administrators, successors, assigns, and legal representatives	Bend County, Texas, or his successors in office, to rsigned, bind ourselves and each of us, our heirs,
THE CONDITION OF THIS BOND IS SUCH THAT, WHI laying, constructing, maintaining and/or repairing one or more cables, along roads, streets and highways, commercial driveway and median	conduits, and/or pole lines in, under, across and/or

Bend, and the State of Texas, under the jurisdiction of the Commissioners' Court of Fort Bend County, Texas, pursuant to the Commissioners' Court order adopted on the 1st day of December, A.D. 1980, recorded in Volume 13, of the Commissioners' Court Minutes of Fort Bend County, Texas, regulating same, which Commissioners' Court order is hereby referred to and made a part hereof for all purposes as though fully set out herein;

AND WHEREAS, the principal desires to provide Fort Bend County with a performance bond covering all such cable, conduit and/or pole line activity, commercial driveway and median openings or modifications;

NOW, THEREFORE, if the above bounden principal shall faithfully perform all its cable, conduit and/or pole line activity (including, but not limited to the laying, construction, maintenance and/or repair of cables, conduits and/or pole lines) in, under, across and/or along roads, streets and highways, commercial driveway and median openings or modifications in the County of Fort Bend and State of Texas, under the jurisdiction of the Commissioners Court of Fort Bend County, Texas, pursuant to and in accordance with minimum requirements and conditions of the above mentioned Commissioners' Court order set forth and specified to be by said principal done and performed, at the time and in the manner therein specified, and shall pay over and make good and reimburse Fort Bend County, all loss and damages which Fort Bend County may sustain by reason of any failure or default on the part of said principal, then this obligation shall be null and void, otherwise to remain in full force and effect.

This bond is payable at the County Courthouse in the County of Fort Bend and State of Texas,

It is understood that at any time Fort Bend County deems itself insecure under this bond, it may require further and/or additional bonds of the principal.

EXECUTED this 1st	day of October	, 20 17
		SVBF, Inc. V. Cley late
		PRINCIPAL /
		BY
3 30 8 47 3		Nationwide Mutual Insurance Company
		SURETY
1113		BY / O
		James Murray Attorney-in-Fact

Power of Attorney

KNOW ALL MEN BY THESE PRESENTS THAT:

Nationwide Mutual Insurance Company, an Ohio corporation National Casualty Company, an Ohio corporation

AMCO Insurance Company, an Iowa corporation Allied Property and Casualty Insurance Company, an Iowa corporation

hereinafter referred to severally as the "Company" and collectively as "the Companies" does hereby make, constitute and appoint;

James Murray

each in their individual capacity, its true and lawful attorney-in-fact, with full power and authority to sign, seal, and execute on its behalf any and all bonds and undertakings, and other obligatory instruments of similar nature, in penalties not exceeding the sum of

Ten Thousand and no/100 Dollars

\$ 10.000.00

and to bind the Company thereby, as fully and to the same extent as if such instruments were signed by the duly authorized officers of the Company; and all acts of said Attorney pursuant to the authority given are hereby ratified and confirmed.

This power of attorney is made and executed pursuant to and by authority of the following resolution duly adopted by the board of directors of the Company:

"RESOLVED, that the president, or any vice president be, and each hereby is, authorized and empowered to appoint attorneys-in-fact of the Company, and to authorize them to execute and deliver on behalf of the Company any and all bonds, forms, applications, memorandums, undertakings, recognizances, transfers, contracts of indemnity, policies, contracts guaranteeing the fidelity of persons holding positions of public or private trust, and other writings obligatory in nature that the business of the Company may require; and to modify or revoke, with or without cause, any such appointment or authority; provided, however, that the authority granted hereby shall in no way limit the authority of other duly authorized agents to sign and countersign any of said documents on behalf of the Company."

"RESOLVED FURTHER, that such attorneys-in-fact shall have full power and authority to execute and deliver any and all such documents and to bind the Company subject to the terms and limitations of the power of attorney issued to them, and to affix the seal of the Company thereto; provided, however, that said seal shall not be necessary for the validity of any such documents."

This power of attorney is signed and sealed under and by the following bylaws duly adopted by the board of directors of the Company.

Execution of Instruments. Any vice president, any assistant secretary or any assistant treasurer shall have the power and authority to sign or attest all approved documents, instruments, contracts, or other papers in connection with the operation of the business of the company in addition to the chairman of the board, the chief executive officer, president, treasurer or secretary; provided, however, the signature of any of them may be printed, engraved, or stamped on any approved document, contract, instrument, or other papers of the Company.

IN WITNESS WHEREOF, the Company has caused this instrument to be sealed and duly attested by the signature of its officer the _____tay of





Albanese, Vice President of Nationwide Mutual Insurance Company, National Casualty Company, AMCO Insurance Company, Allied Property and Casualty Insurance Company

ACKNOWLEDGMENT

STATE OF NEW YORK, COUNTY OF NEW YORK: \$\$

May , 2017 , before me came the above-named officer for the On this 1st day of Company aforesaid, to me personally known to be the officer described in and who executed the preceding instrument, and he acknowledged the execution of the same, and being by me duly sworn, deposes and says, that he is the officer of the Company aforesaid, that the seal affixed hereto is the corporate seal of said Company, and the said corporate seal and his signature were duly affixed and subscribed to said instrument by the authority and direction of said Company.

BARRY T. BASSIS Notary Public, State of New York No. 02BA4656400 Qualified in New York County Commission Expires April 30, 2019

Bary S. Da Notary Public

My Commission Expires

CERTIFICATE

I, Laura B. Guy, Assistant Secretary of the Company, do hereby certify that the foregoing is a full, true and correct copy of the original power of attorney issued by the Company; that the resolution included therein is a true and correct transcript from the minutes of the meetings of the boards of directors and the same has not been revoked or amended in any manner; that said Antonio C. Albanese was on the date of the execution of the foregoing power of attorney the duly elected officer of the Company, and the corporate seal and his signature as officer were duly affixed and subscribed to the said instrument by the authority of said board of directors; and the foregoing power of attorney is still in full force and effect.

IN WITNESS WHEREOF, I have hereunto subscribed my name as Assistant Secretary, and affixed the corporate seal of said Company this October 2017

April 30, 2019 This power of attorney expires:

Laura Guy Assistant Secretary

BDJ 1(05-17)00

CATALYST TECHNICAL GROUP, INC

SHEET INDEX

SHEET NAME

C-0

C-1.0

C-2.1

C-2.2

C-2.3

C-2.4

C-2.5

C-3.1

C-4.1

C-5.1

C-5.2

N-1

SD-4

SHEET NO.

1 OF 17

2 OF 17

3 OF 17

4 OF 17

5 OF 17

6 OF 17

7 OF 17

8 OF 17

9 OF 17

10 OF 17

11 OF 17

12 OF 17

13 OF 17

14 OF 17

15 OF 17

16 OF 17

17 OF 17

DESCRIPTION

DETAILS

DETAILS

COVER SHEET

SITE GRADING PLAN

SITE DRAINAGE PLAN

SITE UTILITY PLAN

SITE PAVING PLAN

CONSTRUCTION NOTES

CONSTRUCTION DETAILS - WATER

CONSTRUCTION DETAILS - SANITARY

CONSTRUCTION DETAILS - STORM

CONSTRUCTION DETAILS - PAVING

CONSTRUCTION DETAILS - PAVING

PAVING DETAILS

DRAINAGE CALCULATIONS

SITE PARKING DIMENSION LAYOUT

STORM WATER POLLUTION PREVENTION PLAN

PLANS FOR THE PROPOSED "SVBF" TEMPLE LOCATED AT 10323 CLODINE ROAD RICHMOND, TX 77407



No.	DATE	Δ	REVISIONS	

PROJECT TITLE

TEMPLE

"SVBF

FORT BEND COUNTY ENGINEER

7/28/17

APPROVED:

OWNER INFO: S.S.lyear

President: SVBF Temple Ph: 732-226-0294

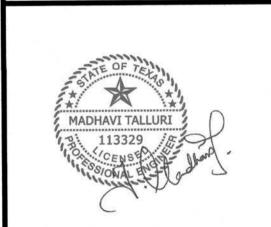
NEER: Richard W. Stolleis, P.E.

THESE SIGNATURES ARE VOID IF CONSTRUCTION HAS NOT

COMMENCED IN (1) YEAR FROM DATE OF APPROVAL.

Development Co-ordinator

SEAL



DATE: 4/12/2017

GENERAL NOTES:

Issue Date:	September
Drawn By:	S.K
Checked By:	T.M
Scale:	N.T.S.
File Path:	
w:\dwg\2015 dwg\2015 commercial\15-026 103	23 clodine\ctg\civif\revised 03-21-2017\

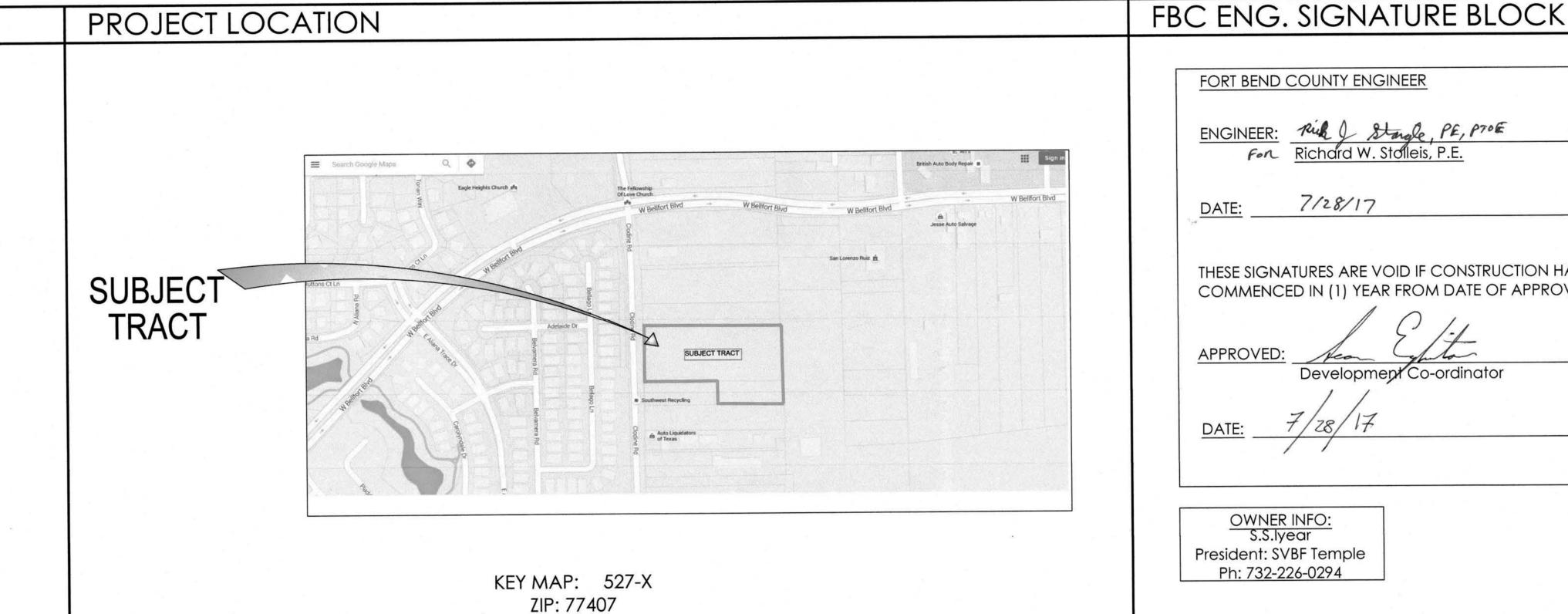
CTG Project Number: 15-026

SHEET TITLE:

COVER SHEET

SHEET NUMBER: 1 OF 17

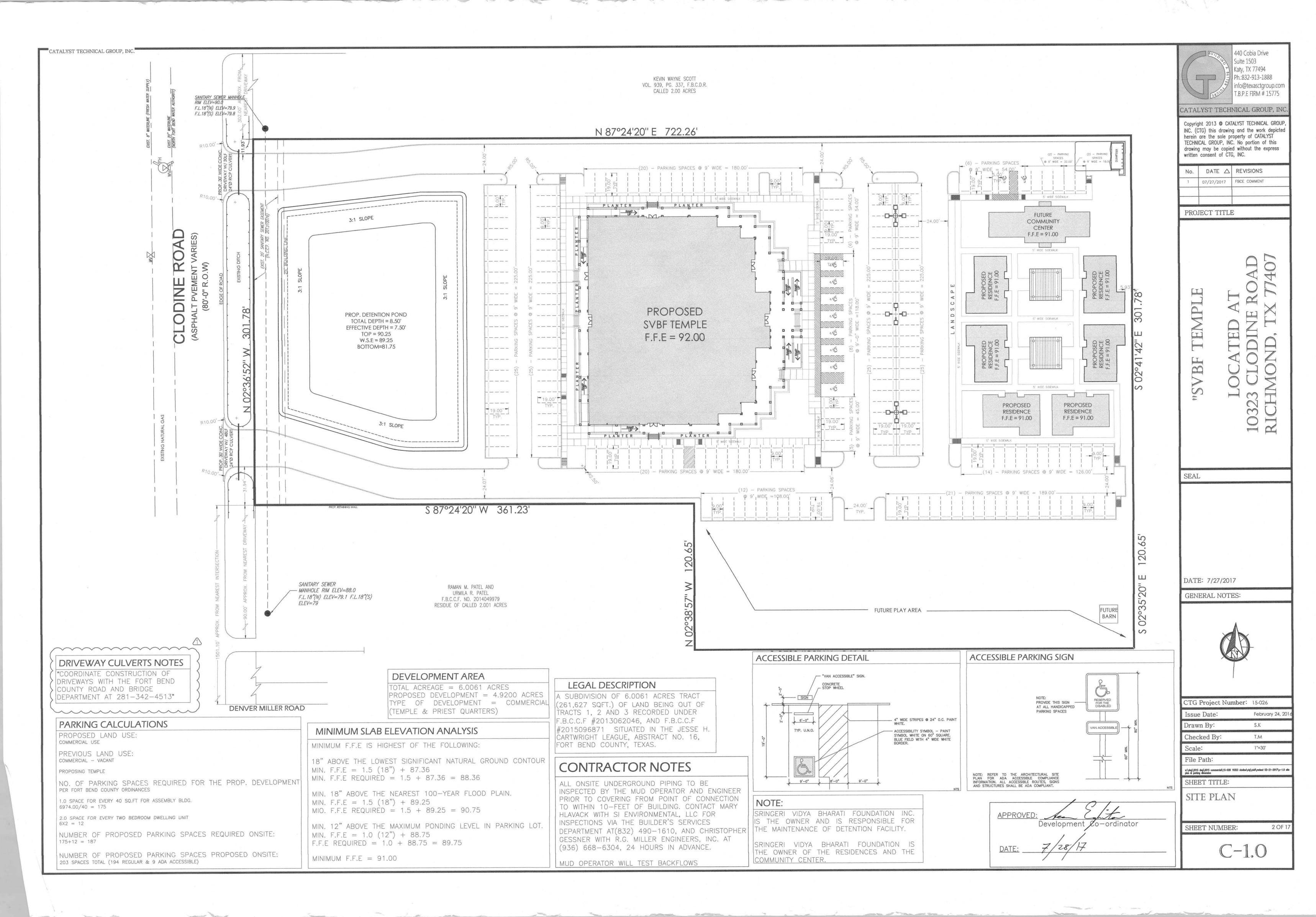
 \mathbb{C} - \mathbb{O}

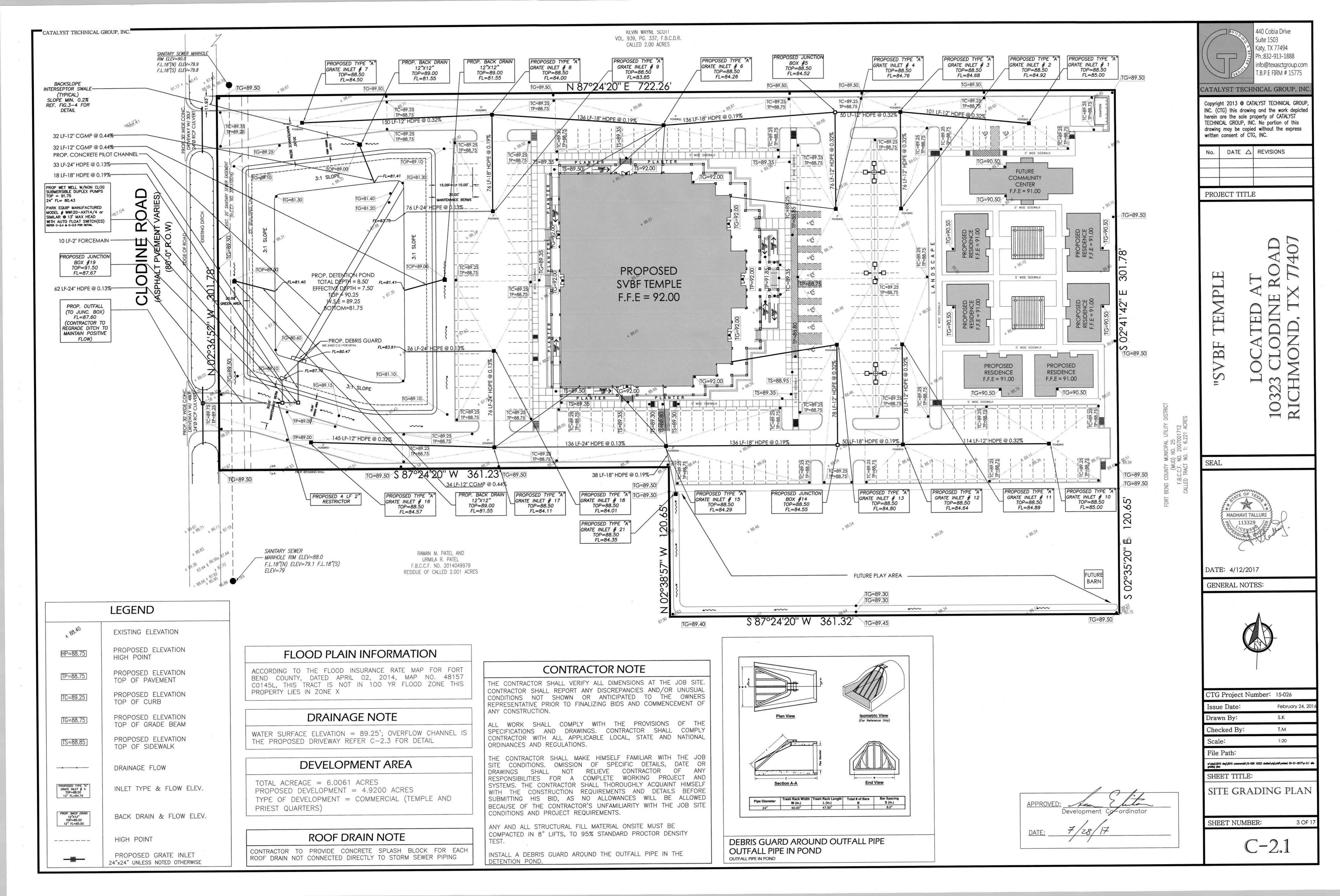


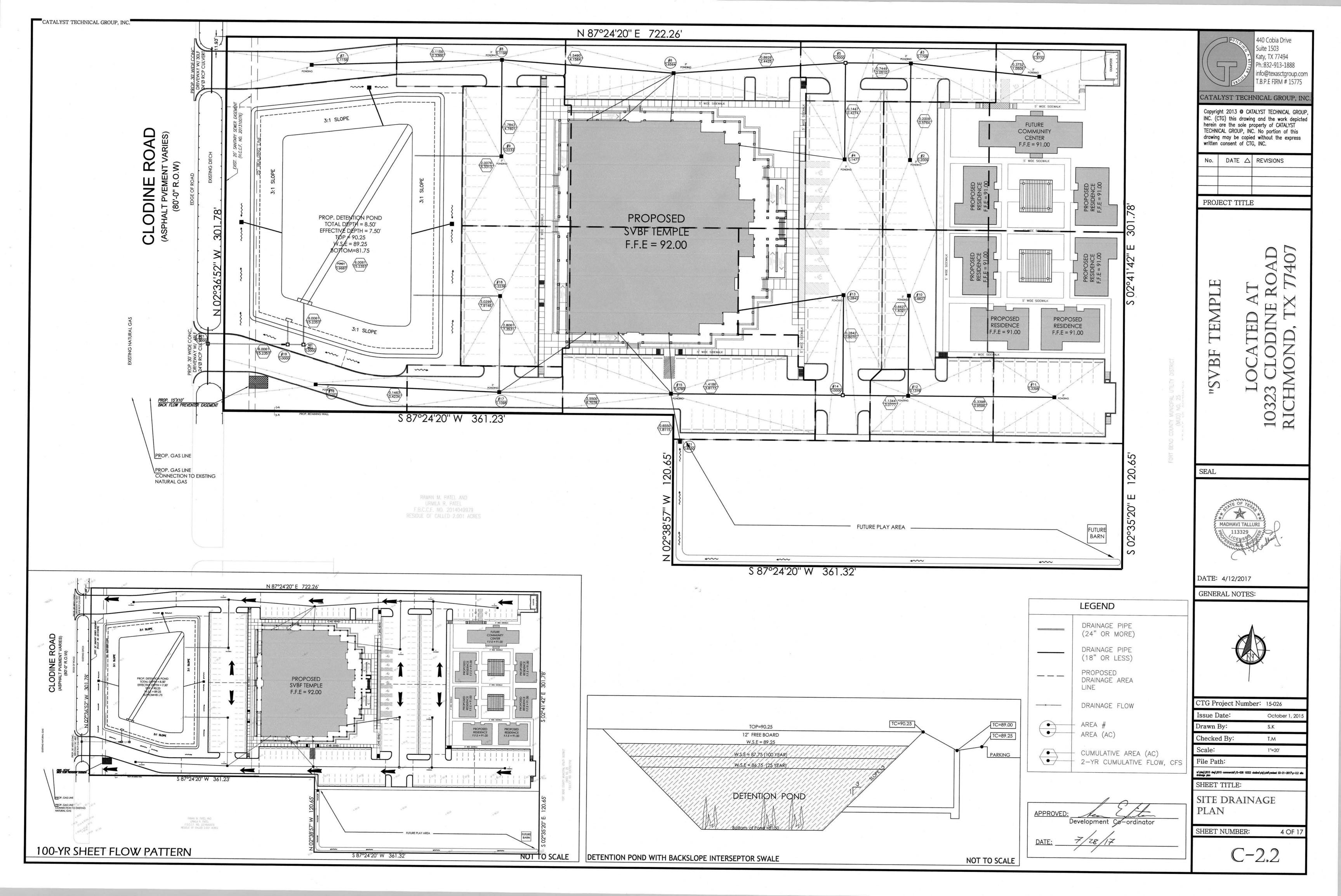
EXHIBITS:

SURVEY PRELIMINARY PLAT **CPC 101** PLUMBING DRAWINGS **OUTDOOR LIGHTING PLAN** KEY MAP

PROJECT LOCATION CITY MAP SCALE: N.T.S







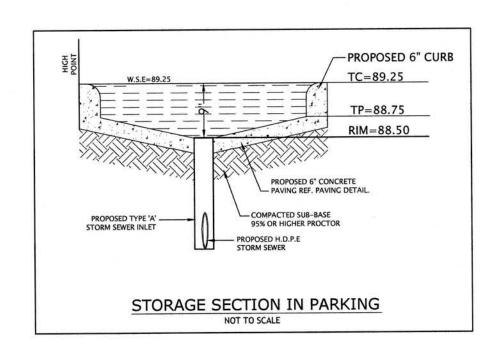
	n skiinve vara sii					3.	OKIVI	SEAADI	CALC	JLAIIC	N FORM			1.	T 1	T	С
ROJECT: 103	23 CLODINE							4			ļ			b	d	0.8315	0.8
ATE: 12/22/2	2016							FOR	T DENIE CO	TINTES/	L			75.01	16.2	0.8313	0.8
									T BEND CC		COD AVD DAT	MEALT EDI	FOLIENCY				
				BASE	D ON IN	TENSII	Y DUKA	ION CUR	VE (HYDRO		FOR 2YR RAI	NFALL FRI		IGN	FIC	OWLINE	
MH OR	INLET		REA				II CYTII		CDADE	LINE	"N"	R	V	Q		DOWNSTREAM	FALL
FROM	то	INCR AC	TOTAL AC	REACH FEET	T MIN	I IN/HR	"CI"	Q CFS	GRADE %	IN	VALUE	IN	FPS	CFS	CISTRIZANI	DOWNS TRACE	FT
INLET 1	INLET 3	0.3732	0.3732	101	23.41	3.52	2.8162	1.0509	0.32	12	0.011	0.25	3.04	2.39	85.00	84.68	0.32
INLET 2	INLET 3	0.2009	0.2009	76	22.54	3.59	2.8686	0.5764	0.32	12	0.011	0.25	3.04	2.39	84.92	84.68	0.24
INLET 3	J. BOX 5	0.1708	0.7449	50	24.49	3.44	2.7535	2.0510	0.32	12	0.011	0.25	3.04	2.39	84.68	84.52	0.16
INLET 4	J. BOX 5	0.1477	0.1477	76	22.14	3.62	2.8933	0.4274	0.32	12	0.011	0.25	3.04	2.39	84.76	84.52	0.24
J. BOX 5	INLET 6	0.0000	0.8926	136	24.80	3.42	2.7363	2.4425	0.19	18	0.011	0.38	3.07	5.43	84.52	84.46	0.06
INLET 6	INLET 8	0.6564	1.5490	136	25.80	3.35	2.6821	4.1546	0.19	18	0.011	0.38	3.07	5.43	84.46	84.00	0.46
INLET 7	INLET 8	0.1156	0.1156	150	21.84	3.64	2.9124	0.3366	0.32	12	0.011	0.25	3.04	2.39	84.48	84.00	0.48
INLET 8	INLET 9	0.1198	1.7843	76	26.07	3.33	2.6677	4.7601	0.19	18	0.011	0.38	3.07	5.43	84.00	83.85	0.15
INLET 9	POND	0.2233	2.0076	45	26.31	3.32	2.6555	5.3313	0.13	24	0.011	0.50	3.08	9.67	83.85	83.78	0.07
INLET 10	INLET 12	0.6627	0.6627	114	24.30	3.46	2.7644	1.8321	0.32	12	0.011	0.25	3.04	2.39	85.00	84.64	0.36
INLET 11	INLET 12	0.3398	0.3398	78	23.27	3.53	2.8244	0.9596	0.32	12	0.011	0.25	3.04	2.39	84.89	84.64	0.25
INLET 12	JBOX 14	0.1319	1.1344	50	25.22	3.39	2.7131	3.0777	0.19	18	0.011	0.38	3.07	5.43	84.64	84.55	0.09
INLET 13	J.BOX 14	0.2842	0.2842	78	23.01	3.55	2.8397	0.8070	0.32	12	0.011	0.25	3.04	2.39	84.80	84.55	0.25
J.BOX 14	INLET 15	0.0000	1.4186	136	25.64	3.36	2.6909	3.8173	0.19	18	0.011	0.38	3.07	5.43	84.55	84.29	0.26
INLET 21	INLET 15	0.6550	0.6550	38	24.28	3.46	2.7655	1.8115	0.19	18	0.011	0.38	3.07	5.43	84.35	84.29	0.06
INLET 15	INLET 17	0.4763	2.5500	136	26.79	3.29	2.6305	6.7078	0.13	24	0.011	0.50	3.08	9.67	84.29	84.11	0.18
INLET 16	INLET 17	0.1463	0.1463	145	22.13	3.62	2.8941	0.4234	0.32	12	0.011	0.25	3.04	2.39	84.57	84.11	0.46
INLET 17	INLET 18	0.1098	2.8061	76	26.99	3.28	2.6204	7.3531	0.13	24	0.011	0.50	3.02	9.48	84.11	84.01	0.10
INLET 18	POND	0.2238	3.0299	45	27.16	3.27	2.6122	7.9146	0.13	24	0.011	0.50	3.08	9.67	84.01	83.91	0.10
POND	J.BOX 19	0.9687	6.0061	18	28.71	3.17	2.5367	15.2357	0.19	18	0.011	0.38	3.07	5.43	80.47	87.67	-7.2
J.BOX 19	OUTFALL	6.0061	6.0061	62	28.71	3.17	2.5367	15.2357	0.13	24	0.011	0.50	3.08	9.67	87.67	87.60	0.0
										11/10/2							
			te and an entire	/////		S	TORM	SEWE	R CALC	ULATIO	ON FORM	Л	·				
DOTTOT: 10	323 CLODINE						I OIGH	JETTE				 		b	d	e	C
OATE: 12/22/								-	1		1			115.9	21.2	0.7808	0.8

				RASEI	ONIN	TENSIT	Y DURAT		T BEND CO		OR 25YR RAI	NFALL FR	EQUENCY				
MH OR	INLET I	Δ1	REA	DASE	ONIN	LENGII	DORAL	ION COK	C (III DAO	LINE			DES		FLO	WLINE	
		INCR	TOTAL	REACH	T	I	"CI"	Q	GRADE	SIZE	"N"	R	V	Q	UPSTREAM	DOWNS TREAM	FALI
FROM	то	AC	AC	FEET	MIN	IN/HR		CFS	%	IN	VALUE	IN	FPS	CFS			FT
INLET 1	INLET 3	0.3732	0.3732	101	23.41	5.97	4.7789	1.7833	0.32	12	0.011	0.25	3.04	2.39	85.00	84.68	0.32
INLET 2	INLET 3	0.2009	0.2009	76	22.54	6.07	4.8528	0.9751	0.32	12	0.011	0.25	3.04	2.39	84.92	84.68	0.24
INLET 3	J. BOX 5	0.1708	0.7449	50	24.49	5.86	4.6898	3.4934	0.32	12	0.011	0.25	3.04	2.39	84.68	84.52	0.16
INLET 4	J. BOX 5	0.1477	0.1477	76	22.14	6.11	4.8875	0.7220	0.32	12	0.011	0.25	3.04	2.39	84.76	84.52	0.24
J. BOX 5	INLET 6	0.0000	0.8926	136	24.80	5.83	4.6653	4.1643	0.19	18	0.011	0.38	3.07	5.43	84.52	84.46	0.06
INLET 6	INLET 8	0.6564	1.5490	136	25.80	5.73	4.5877	7.1064	0.19	18	0.011	0.38	3.07	5.43	84.46	84.00	0.46
INLET 7	INLET 8	0.1156	0.1156	150	21.84	6.14	4.9142	0.5680	0.32	12	0.011	0.25	3.04	2.39	84.48	84.00	0.48
INLET 8	INLET 9	0.1198	1.7843	76	26.07	5.71	4.5670	8.1491	0.19	18	0.011	0.38	3.07	5.43	84.00	83.85	0.15
INLET 9	POND	0.2233	2.0076	45	26.31	5.69	4.5496	9.1337	0.13	24	0.011	0.50	3.08	9.67	83.85	83.78	0.07
INLET 10	INLET 12	0.6627	0.6627	114	24.30	5.88	4.7053	3.1184	0.32	12	0.011	0.25	3.04	2.39	85.00	84.64	0.36
INLET 11	INLET 12	0.3398	0.3398	78	23.27	5.99	4.7904	1.6275	0.32	12	0.011	0.25	3.04	2.39	84.89	84.64	0.25
INLET 12	JBOX 14	0.1319	1.1344	50	25.22	5.79	4.6321	5.2547	0.19	18	0.011	0.38	3.07	5.43	84.64	84.55	0.09
INLET 13	JBOX 14	0.2842	0.2842	78	23.01	6.02	4.8120	1.3675	0.32	12	0.011	0.25	3.04	2.39	84.80	84.55	0.25
J.BOX 14	INLET 15	0.0000	1.4186	136	25.64	5.75	4.6004	6.5261	0.19	18	0.011	0.38	3.07	5.43	84.55	84.29	0.26
INLET 21	INLET 15	0.6550	0.6550	38	24.28	5.88	4.7069	3.0831	0.19	18	0.011	0.38	3.07	5.43	84.35	84.29	0.06
INLET 15	INLET 17	0.4763	2.5500	136	26.79	5.64	4.5135	11.5094	0.13	24	0.011	0.50	3.08	9.67	84.29	84.11	0.18
INLET 16	INLET 17	0.1463	0.1463	145	22.13	6.11	4.8886	0.7151	0.32	12	0.011	0.25	3.04	2.39	84.57	84.11	0.46
INLET 17	INLET 18	0.1098	2.8061	76	26.99	5.62	4.4989	12.6243	0.13	24	0.011	0.50	3.02	9.48	84.11	84.01	0.10
INLET 18	POND	0.2238	3.0299	45	27.16	5.61	4.4870	13.5951	0.13	24	0.011	0.50	3.08	9.67	84.01	83.91	0.10
POND	J.BOX 19	0.9687	6.0061	18	28.71	5.47	4.3774	26.2909	0.19	18	0.011	0.38	3.07	5.43	80.47	87.67	-7.20
J.BOX 19	OUTFALL	6.0061	6.0061	62	28.71	5.47	4.3774	26.2911	0.13	24	0.011	0.50	3.08	9.67	87.67	87.60	0.07

PROJECT: 103	23 CLODINE		-											Ъ	d	e	С	Area 18	=	
DATE: 12/22/2						////								125.4	21.8	0.75	0.8	Volume 18	=	
						111111-121			RT BEND C											
				BASEI	ON IN	TENSIT	Y DURAT	ION CURV	E (HYDRO	35/TP-40)-F	OR 100YR RA	AINFALL FI	REQUENCY	ľ				Total Detention Vol. Stored in Darking Let	=	+-
MH OR INLET AREA								LINE			DES	IGN	100,000	WLINE		Total Detention Vol. Stored in Parking Lot		+-		
		INCR	TOTAL	REACH	T	1	"CI"	Q	GRADE	SIZE	"N"	R	v	Q	UPSTREAM	DOWNSTREAM	FALL		=	_
FROM	то	AC	AC	FEET	MIN	IN/HR		CFS	%	IN	VALUE	IN	FPS	CFS			FT	Detention Stored in Pond 1		
INLET 1	INLET 3	0.3732	0.3732	101	23.41	7.19	5.7542	2.1473	0.32	12	0.011	0.25	3.04	2.39	85.00	84.68	0.32	Top Area	=	
INLET 2	INLET 3	0.2009	0.2009	76	22.54	7.30	5.8385	1.1731	0.32	12	0.011	0.25	3.04	2.39	84.92	84.68	0.24	Bottom Area	=	
INLET 3	J. BOX 5	0.1708	0.7449	50	24.49	7.07	5.6525	4.2105	0.32	12	0.011	0.25	3.04	2.39	84.68	84.52 84.52	0.16		=	+
INLET 4	J. BOX 5	0.1477	0.1477	76	22.14	7.35	5.8781	0.8684	0.32	12	0.011	0.25	3.04	2.39 5.43	84.76 84.52	84.32	0.24	Average Area	-	+
J. BOX 5	INLET 6	0.0000	0.8926	136	24.80	7.03	5.6245	5.0206	0.19	18	0.011	0.38	3.07	5.43	84.46	84.00	0.46	Depth of Pond	=	_
INLET 6	INLET 8	0.6564	1.5490	136	25.80	6.92	5.5357	8.5750	0.19	18 12	0.011	0.38	3.04	2.39	84.48	84.00	0.48	Volume Stored in Pond 1	=	
INLET 7	INLET 8	0.1156	0.1156	150	21.84	7.39	5.9086	0.6829	0.32	18	0.011	0.23	3.07	5.43	84.00	83.85	0.15		=	T
INLET 8	INLET 9	0.1198	1.7843	76	26.07	6.89	5.5121	9.8355 11.0260	0.19	24	0.011	0.50	3.08	9.67	83.85	83.78	0.07		-	+
INLET 9	POND	0.2233	2.0076	45	26.31	6.87	5.4921 5.6703	3.7579	0.13	12	0.011	0.25	3.04	2.39	85.00	84.64	0.36		+	+-
INLET 10	INLET 12	0.6627	0.6627	114	24.30	7.09	5.7674	1.9595	0.32	12	0.011	0.25	3.04	2.39	84.89	84.64	0.25	Detention Volume stored in pipes	=	-
INLET 11	INLET 12	0.3398	0.3398 1.1344	78	23.27	7.21	5.5866	6.3374	0.19	18	0.011	0.38	3.07	5.43	84.64	84.55	0.09	Total length of pipe		1
INLET 12	JBOX 14 JBOX 14	0.1319	0.2842	78	25.22 23.01	6.98 7.24	5.7921	1.6461	0.32	12	0.011	0.25	3.04	2.39	84.80	84.55	0.25	Total area of pipe		
J.BOX 14	INLET 15	0.0000	1.4186	136	25.64	6.94	5.5502	7.8736	0.19	18	0.011	0.38	3.07	5.43	84.55	84.29	0.26	Volume Stored in Pipes		T
INLET 21	INLET 15	0.6550	0.6550	38	24.28	7.09	5.6720	3.7153	0.19	18	0.011	0.38	3.07	5.43	84.35	84.29	0.06			1
INLET 15	INLET 17	0.4763	2.5500	136	26.79	6.81	5.4508	13.8995	0.13	24	0.011	0.50	3.08	9.67	84.29	84.11	0.18		+-	+-
INLET 16	INLET 17	0.1463	0.1463	145	22.13	7.35	5.8793	0.8600	0.32	12	0.011	0.25	3.04	2.39	84.57	84.11	0.46			+-
INLET 17	INLET 18	0.1098	2.8061	76	26.99	6.79	5.4340	15.2485	0.13	24	0.011	0.50	3.02	9.48	84.11	84.01	0.10	Total Detention Volume stored	=	
INLET 18	POND	0.2238	3.0299	45	27.16	6.78	5.4204	16.4233	0.13	24	0.011	0.50	3.08	9.67	84.01	83.91	0.10	Total Detention Volume stored	=	
POND	J.BOX 19	0.9687	6.0061	18	28.71	6.62	5.2947	31.8004	0.19	18	0.011	0.38	3.07	5.43	80.50	85.35	-4.85			
J.BOX 20	OUTFALL	6.0061	#REF!	62	#REF!	#REF!	#REF!	#REF!	0.13	24	0.013	0.50	3.08	9.67	#REF!	85.25	#REF!	DETENTION PROVIDED > DETENTION REQUIRED		+

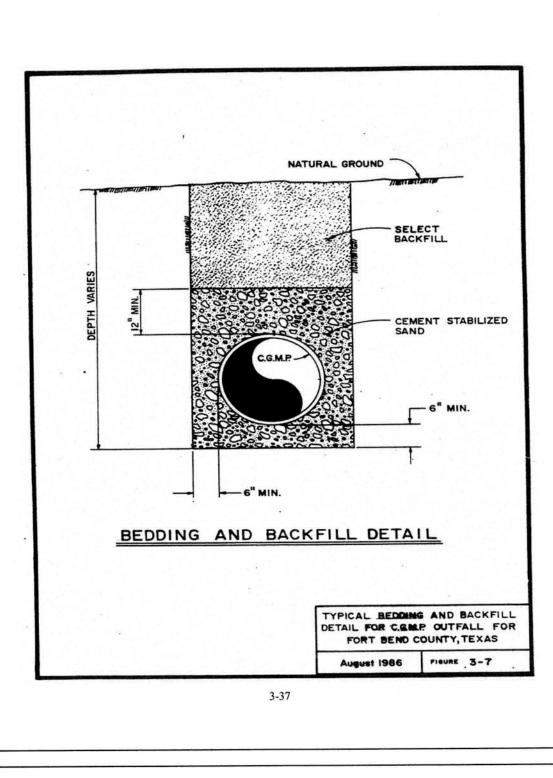
STORM SEWER CALCULATION FORM

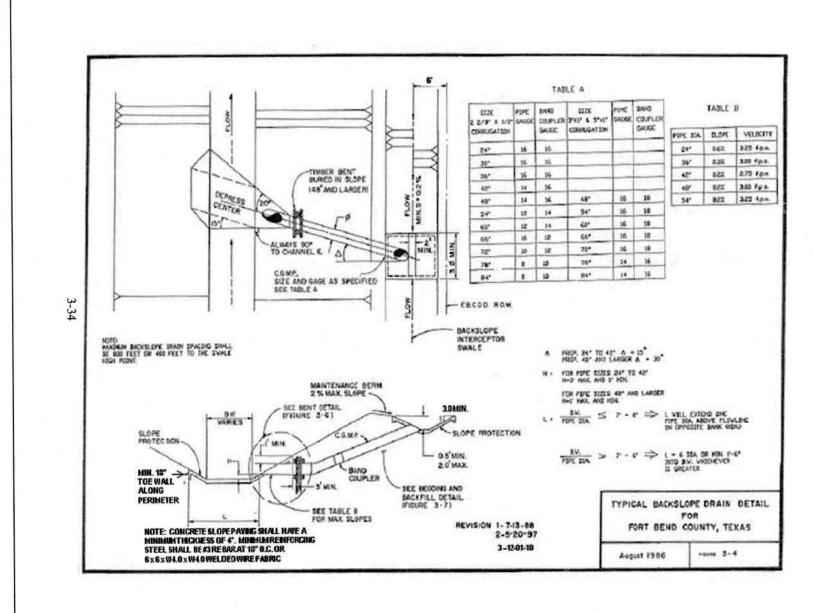
Q	=	CA *(√2gh)	
D	=	$Q^{1/2}/(2.25*h^{1/4})$	
ACREAGE OF PROPERTY	=	6.0061	AC
Q (OUTFALL DISCHARGE)	=	0.125	CF5
C (COEFFICIENT OF DISCHARGE)	=	0.80 FOR SHORT SEGMENT PIPE	
	=	0.80	
A (ORIFICE AREA)	=	0.0188	Sq-Ft
g (GRAVITATIONAL FACTOR)	=	32.2	
h (HEAD, WATER SURFACE DIFFERENTIAL)	=	1.67	Ft
D (ORIFICE DIAMETER)	=	$(0.125)^{1/2}/(2.25*1.67^{1/4})$	Ft
	=	0.1382	Ft
	=	1.66	IN



PROPERTY SUMMARY	ATIO		
Area of Tract	=	261,625.72	Sa-Ft
Area or made	=	6.0061	
CURRENT DEVELOPMENT SUMMARY			
Proposed Area of Development	=	223304.33	Sq-Ft
	=		Acres
Proposed Impervious area	=	180857.32	
Future Impervious area of barn		225.00	
Total impervious area		181082.32	
	=		Acres
Total Impervious area percentage(Prop.+Future)	=	69%	
DETENTION DECLIDED	-		-
DETENTION REQUIRED Rate of Detention	=	0.86	Ac-Ft
(Aas per table 6-1 FBC Drainage Cri	iteria		
Required Detention Volume	=	224,998.12	Cu-Ft
		5.17	Ac-Ft
DETENTION PROVIDED			
Total Depth of water storage in Parking	=	0.75	
Effective Depth of water storage in Parking	=	0.50 +(0.25/3)	Ft
	-	0.5833	ŀτ
A 1	-	3,840.92	Sa Et
Area 1	=	3,840.92 2,240.54	
Volume 1 Area 2	=	5,152.67	
Volume 2	=	3,005.72	
Area 3	=	3,148.66	
Volume 3	=	1,836.72	
Area 4	=	8,623.55	Sq-Ft
Volume 4	=	5,030.40	
Area 6	=	8,166.55	
Volume 6	=	4,763.82	
Area 7	=_	3,968.22	
Volume 7	=	2,314.80	
Area 8	=	3,365.55	
Volume 8	=	1,963.24	
Area 9	=	7,104.26 4,144.15	
Volume 9	=	5,882.49	
Area 10 Volume 10	=	3,431.45	
Area 11	=	4,902.00	
Volume 11	=	2,859.50	
Area 12	=	5,314.31	Sq-F
Volume 12	=	3,100.01	Cu-F
Area 13	=	8,843.78	
Volume 13	=	5,158.87	
Area 15	=	10,602.03	
Volume 15	=	6,184.52	
Area 16	=	3,961.97	-
Volume 16	=	2,311.15	
Area 17	=	3,370.42 1,966.08	
Volume 17 Area 18	=	7,105.17	
Volume 18	=	4,144.68	
volume to		.,	
Total Detention Vol. Stored in Parking Let	=	54,455.65	Cu-F
Total Detention Vol. Stored in Parking Lot	=		Ac-F
Detention Stored in Pond 1	+	1	
Top Area	=	28,811.76	Sq-F
Bottom Area	=	15,521.32	
Average Area	=	22,166.54	Sq-F
Depth of Pond	=	7.50	
Volume Stored in Pond 1	=	166,249.05	
	=	3.82	Ac-F
Detention Volume stored in pipes	=	4 070 00) F4
Total length of pipe	-	1,079.00	_
Total area of pipe	+	5,082.09	Sq-F
Volume Stored in Pipes	-	0.12	_
	+	0.12	
Total Detention Volume stored	=	225,786.79	Ac-F
TOTAL DETERMINE VOIDING STOLEG	_		Ac-F
Total Detention Volume stored	=		

INTENS	ITY I =	b/(d+Tc)^e	
FOR 2 Y	EAR FR	EQUENCY OF RAINFALL	
b	=	75.01	
d	=	16.2	
e	=	0.8315	
С	=	0.8	
DR	AINAG	E CALCULATION BY RAT	IONAL METHOD
A	=	6.0061	AC
Tc	=	10*A ^{0.1761} +15	
	=	10*(6.0061) ^{0.1761} +15	
	=	28.7123	MIN
I	_	b/(d+Tc) ^e	
	=	75.01/(16.2+28.7123)0.8	
	=	3.17	IN/HR
CI	=	0.80*3.17	
	=	2.5367	
Q	=	CIA	
	=	0.80*3.17*6.0061	
	=	15.24	CFS







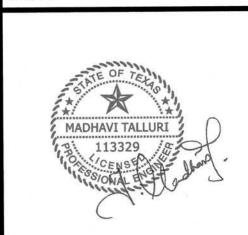
info@texasctgroup.com T.B.P.E FIRM # 15775 CATALYST TECHNICAL GROUP, INC

Copyright 2013 @ CATALYST TECHNICAL GROUP, INC. (CTG) this drawing and the work depicted herein are the sole property of CATALYST TECHNICAL GROUP, INC. No portion of this drawing may be copied without the express written consent of CTG, INC.

	DATE	Δ	REVISIONS	
-				

PROJECT TITLE

SEAL



DATE: 4/12/2017

GENERAL NOTES:

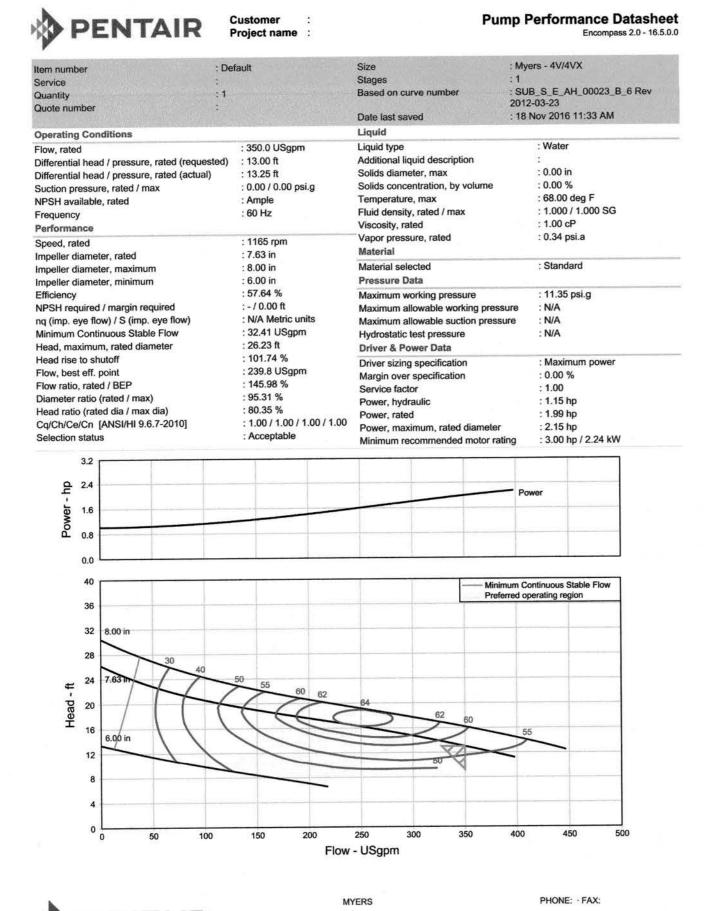
CTG Project Number:	15-026
Issue Date:	October 1, 2015
Drawn By:	S.K
Checked By:	T.M
Scale:	1"=20'

SHEET TITLE:

SHEET NUMBER:

DRAINAGE **CALCULATIONS**

 \mathbb{C} -2.3



Performance Data

SOLIDS HANDLING WASTEWATER PUMPS

Standard	Hazardous Location	НР	Volts	Phase	Hertz	Start Amps	Run Amps	Service Factor Amps	Run kW	Service Factor kW	Start KVA	Run KVA	NEC Code Letter	Servic Facto
4V10M6-21	4VX10M6-21	1	230	1	60	35	9	10.8	1.5	1.9	8.1	2.1	K	1.2
4V10M6-03	4VX10M6-03	1	200	3	60	23.8	7.4	8.9	1.8	2.3	8.3	2.6	K	1.2
4V10M6-23	4VX10M6-23	1	230	3	60	20.7	6.4	7.8	1.8	2.3	8.3	2.6	K	1.2
4V10M6-43	4VX10M6-43	1	460	3	60	10.4	3.2	3.9	1.8	2.3	8.3	2.6	K	1.2
4V10M6-53	4VX10M6-53	1	575	3	60	8.3	2.6	3.1	1.8	2.3	8.3	2.6	K	1.2
4V15M6-21	4VX15M6-21	1.5	230	1	60	42	11	13.2	1.9	2.4	9.7	2.5	H	1.2
4V15M6-03	4VX15M6-03	1.5	200	3	60	33.4	9.8	11.8	2.2	2.8	11.6	3.3	J	1.2
4V15M6-23	4VX15M6-23	1.5	230	3	60	29	8.5	10.2	2.2	2.8	11.6	3.3	J	1.2
4V15M6-43	4VX15M6-43	1.5	460	3	60	14.5	4.2	5.1	2.2	2.8	11.6	3.3	J	1.2
4V15M6-53	4VX15M6-53	1.5	575	3	60	11.6	3.3	4	2.2	2.8	11.6	3.3	J	1.2
4V20M6-21	4VX20M6-21	2	230	1	60	60	18	21	2.8	3.5	19.5	4.2	H	1.2
4V20M6-03	4VX20M6-03	2	200	3	60	56	12	14.5	2.4	3.6	19.5	4.2	L	1.2
4V20M6-43	4VX20M6-43	2	460	3	60	24.5	5.2	6.3	2.4	3.6	19.5	4.2	L	1.2
4V20M6-53	4VX20M6-53	2	575	3	60	19.6	4.2	5	2.4	3.6	19.5	4.2	L	1.2
4V30M6-21		3	230	1	60	60	21	21	3.8	3.8	13.8	4.8	Н	1.0
4V30M6-03		3	200	3	60	56	16.8	16.8	3.8	3.8	19.5	5.6	H	1.0
4V30M6-23		3	230	3	60	74.8	16	16	10.1	10.1	59.7	12.8	6	1.0
4V30M6-43		3	460	3	60	24.5	7	7	3.8	3.8	19.5	5.6	H	1.0
4V30M6-53		3	575	3	60	19.6	5.6	5.6	3.8	3.8	19.5	5.6	H	1.0
antalas.					Motor E	Efficiencies a	nd Power Fac	ter			Power Fact	n-U		
		Service	or Efficient		NI OF		F00/ 1 4	BY A COST	Service	100%		75% Load	E0	% Load
HP	Phase	Factor Loa	BO 1	00% Load		Load	50% Load	Fa	ctor Load 75	100% 1		66 66		58
	1	59.5	-	58		53	44.5		75.5	71		62	CENT 12:0723	48.5
	3	64	- 112	61.5		5.5	46		80	77		73		67.5
1.5	1	56	200	59		55	56		69.5	66		59.5	0.00	50
1.5	3	68	mules I Will	67		3.5	45.5	3-500 100 000	73	68	And in column 2 is not a local	60	Daily College	51
2	1	61	Party man	59	-	54	40.0		71.5	58.		51	NATIONAL PROPERTY.	43
2	3	71		69	-	64	54		78	78		71	COLUMN TO A STATE OF THE PARTY	60
3		60 73	SESTEMBER 1	73		0.5	64	9.00	69	69		62	THE BUILD	51
3	3	13		13	1 1	0.0	04	200	07	07	Profittiss 21	UL	DATE OF THE PARTY	JI.

SOLIDS HANDLING WASTEWATER PUMPS

Specifications For 4" Non-Clog Sewage Pump Lift-Out Rail Systems (For Pump Models 4WHV, 4R, and 4V)

GENERAL - Furnish and install a complete non-clog sewage pumping system consisting of: __2__ (qty) Myers ____4V30M6-43 ___ (model number) submersible non-clog sewage pumps and ____SRA-4040 ____ (model number) lift-out rail systems, valves, controls, access cover(s) and all other appurtenances to make a complete system.

COMPONENTS - Each lift-out rail system shall consist of: a ductile iron discharge base, cast iron pump attaching and sealing plate, stainless steel pump guide plate, and cast iron elbow. All exposed nuts, bolts, and fasteners shall be of 300 series stainless steel.

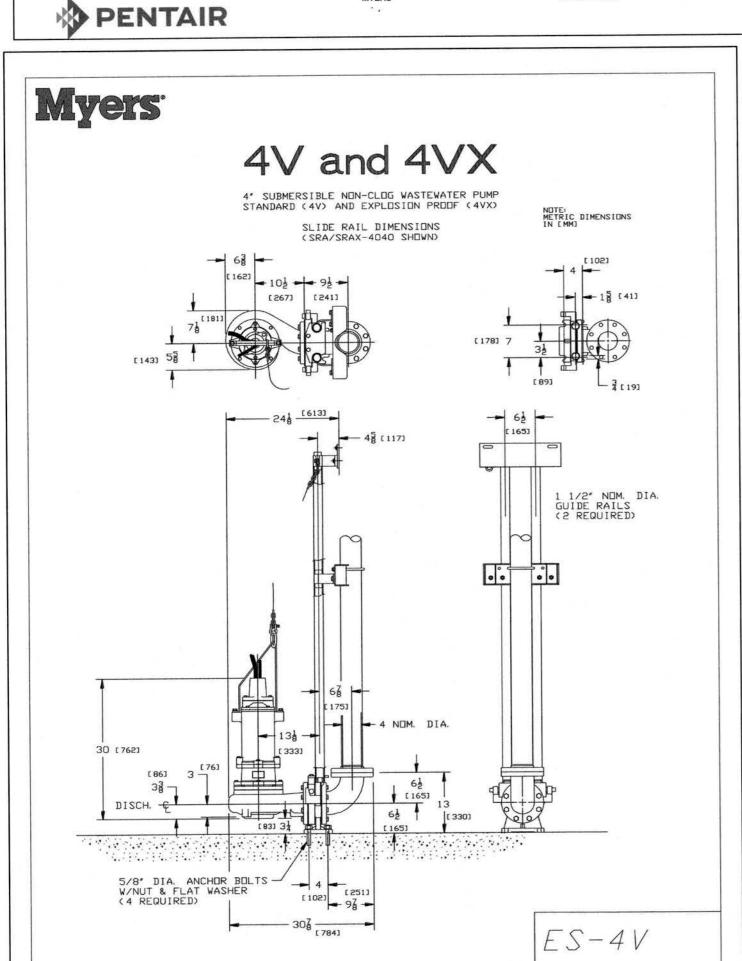
ELBOW - Discharge elbow shall be 4" x 4". Elbow shall bolt onto base and have standard 125 lb. flanges.

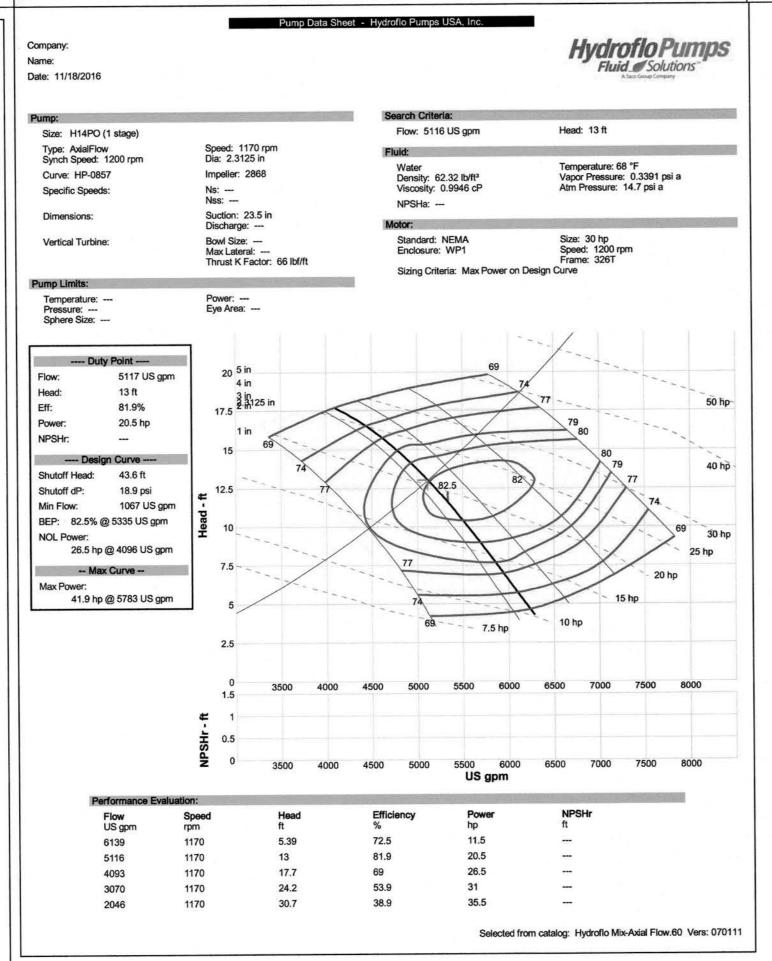
SEALING - A sealing plate shall be attached to the pump. A simple downward sliding motion of the pump and guide plate on the guide rails shall cause the unit to be automatically connected and sealed to the base. The mating faces of the sealing plate and base shall be machined to provide a metal-to-metal, leak-proof seal at all operating

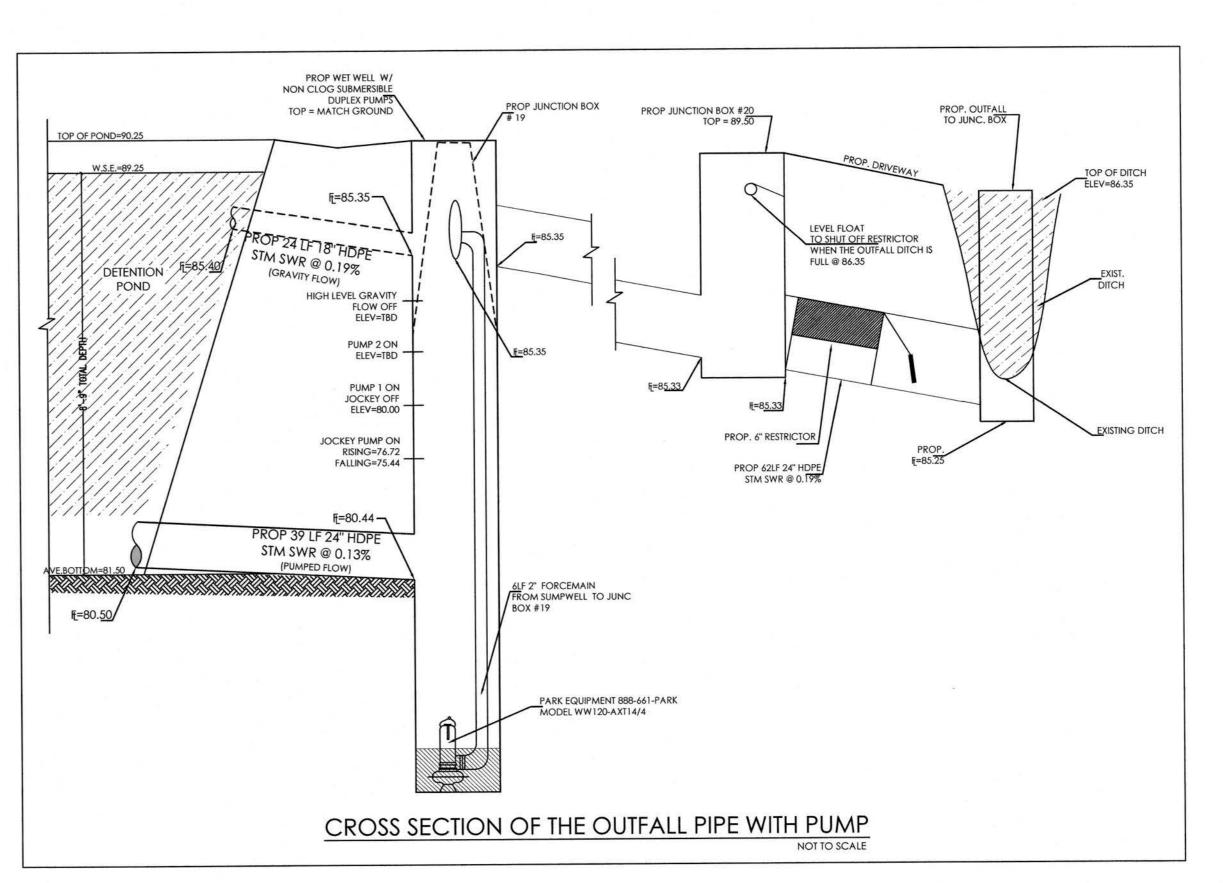
GUIDE RAILS - Two rail pipes shall be used to guide the pump from the surface to the discharge base connection. The guide rails shall be 1-1/2 inch schedule 40 _____ galvanized or X stainless steel pipe. The weight of the pump shall bear solely on the discharge base and not on the guide rails. Rail systems which require the pump to be supported by legs which might interfere with the flow of solids into the pump suction will not be considered equal. The guide rail shall be firmly attached to the access hatch frame. Systems deeper than 21 feet shall use an intermediate guide for each 21 feet of wetwell

LIFTING CHAIN - An adequate length of _____ galvanized or __X_ stainless steel lifting chain shall be supplied for removing the pump. The chain shall be of sufficient length and shall include an adequate number of lifting rings for easy removal.

K3457 8/94

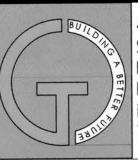






- 4" Nom. Dia.

Development Co-ordinator



440 Cobia Drive Suite 1503 Katv, TX 77494 Ph.:832-913-1888 info@texasctgroup.com T.B.P.E FIRM # 15775

CATALYST TECHNICAL GROUP, INC

Copyright 2013 @ CATALYST TECHNICAL GROUP, INC. (CTG) this drawing and the work depicted herein are the sole property of CATALYST TECHNICAL GROUP, INC. No portion of this drawing may be copied without the express written consent of CTG, INC.

DATE A REVISIONS

PROJECT TITLE

TEMPLE

BF

1SI



DATE: 4/12/2017

GENERAL NOTES:

CTG Project Number: 15-026 Issue Date: October 1, 201

S.K Drawn By: T.M Checked By: 1"=20" Scale:

File Path:

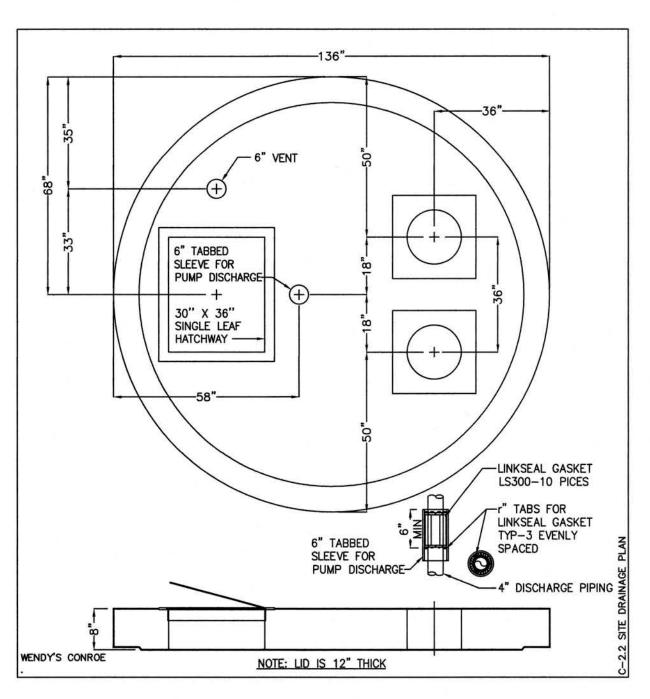
SHEET TITLE:

DRAINAGE DETAILS

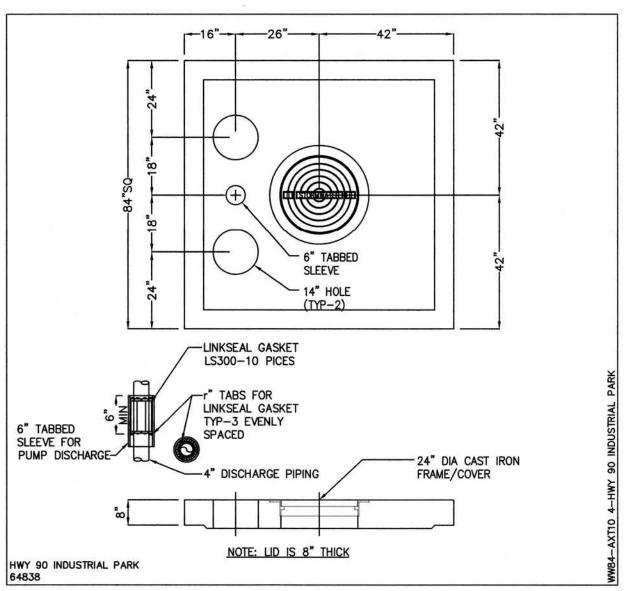
SHEET NUMBER:

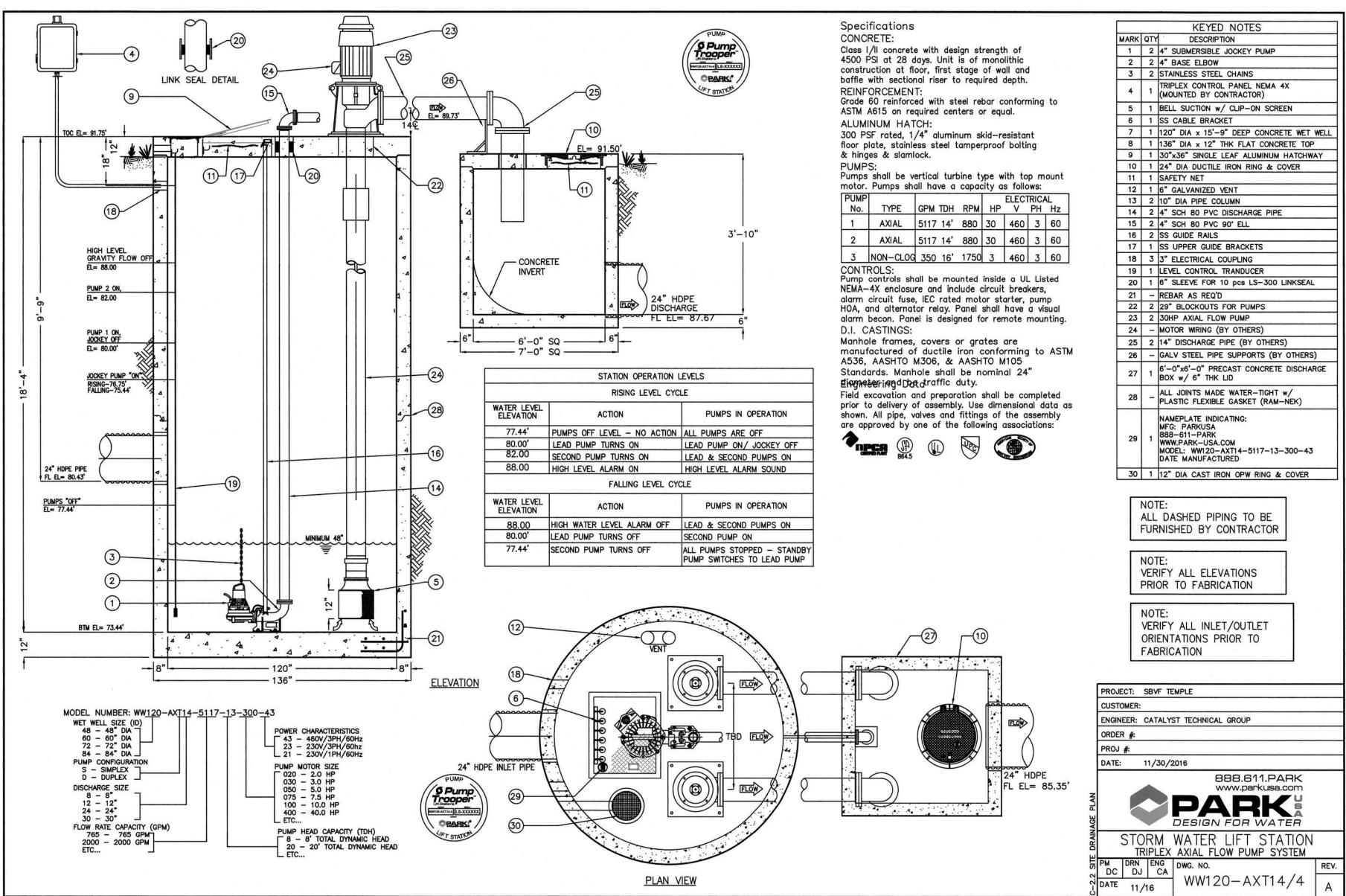
 \mathbb{C} -2.4

6 OF 1



CATALYST TECHNICAL GROUP, INC.







440 Cobia Drive Suite 1503 Katv, TX 77494 Ph.:832-913-1888 info@texasctgroup.com Γ.B.P.E FIRM # 15775

CATALYST TECHNICAL GROUP, INC

Copyright 2013 @ CATALYST TECHNICAL GROUP INC. (CTG) this drawing and the work depicted herein are the sole property of CATALYST TECHNICAL GROUP, INC. No portion of this drawing may be copied without the express written consent of CTG, INC.

No. DATE A REVISIONS

PROJECT TITLE

SEAL



DATE: 4/12/2017

GENERAL NOTES:

CTG Project Number: 15-026 Issue Date:

Drawn By: S.K Checked By: T.M Scale: 1"=20"

File Path:

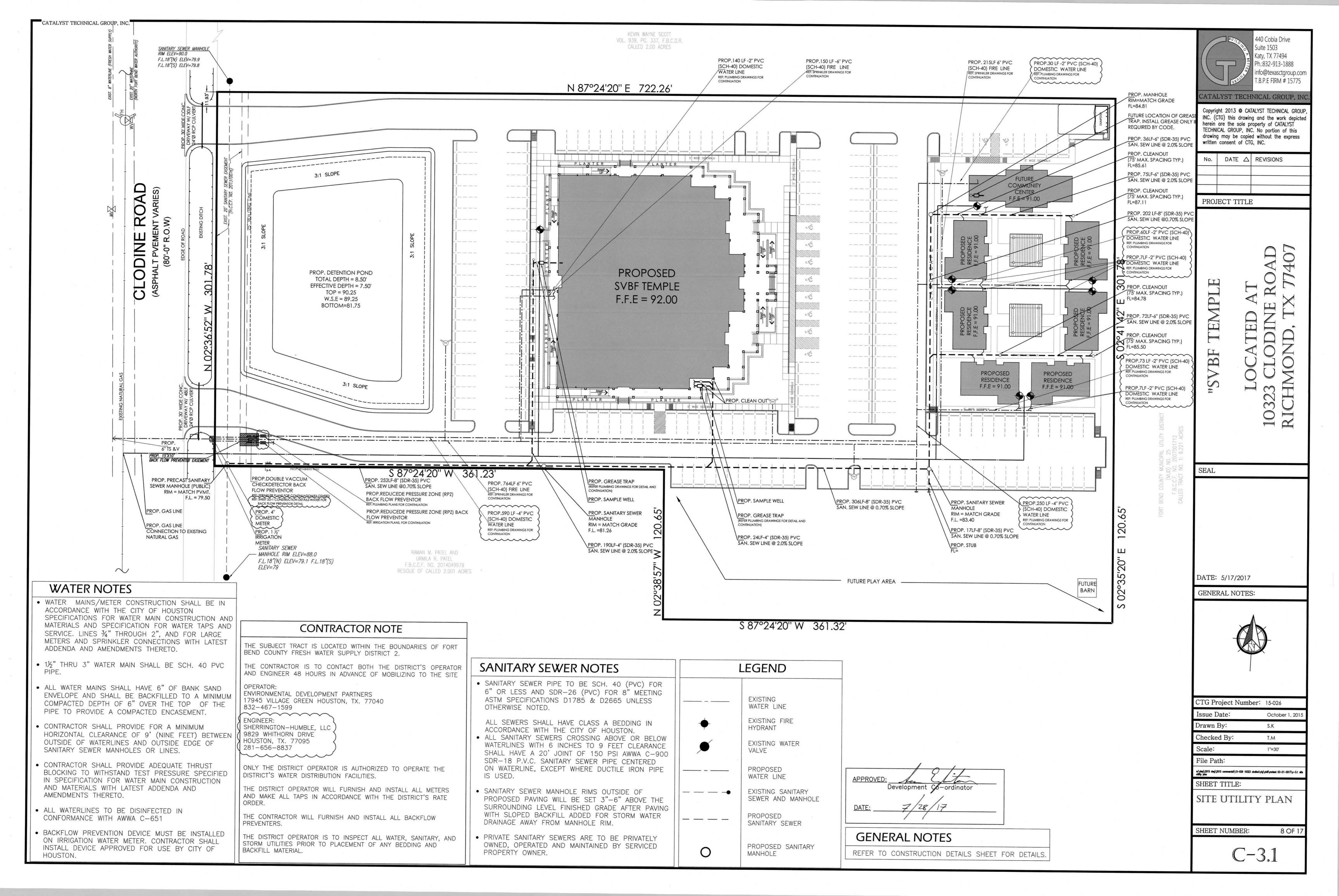
w:\dwg\2015 dwg\2015 commercial\15-026 10323 clodine\ctg\civil\revised 03-21-2017\c-2.2 situratinge plan SHEET TITLE:

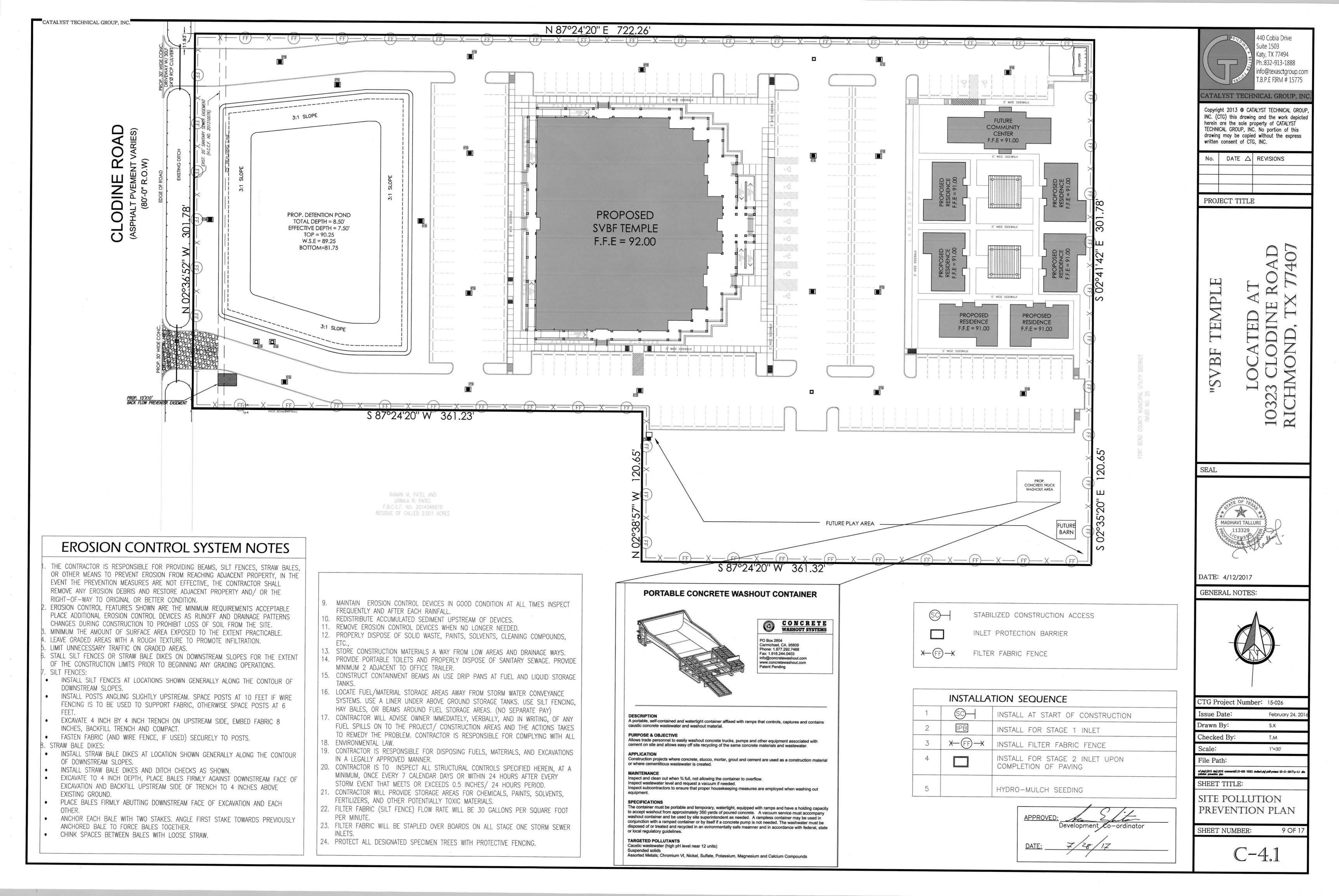
PUMP DETAILS

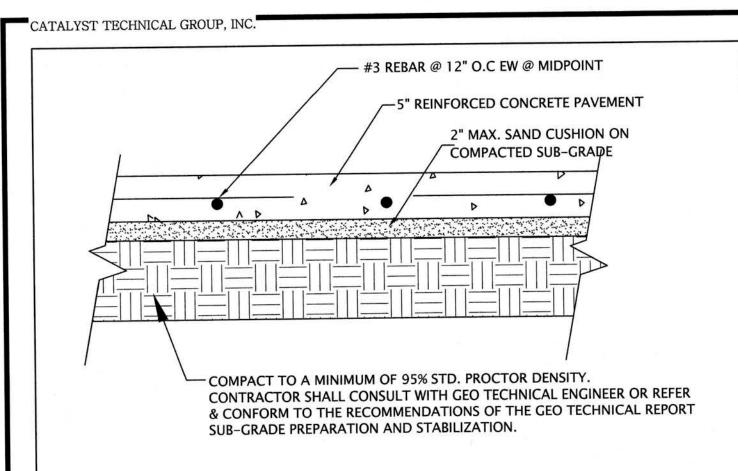
SHEET NUMBER:

C-2.5

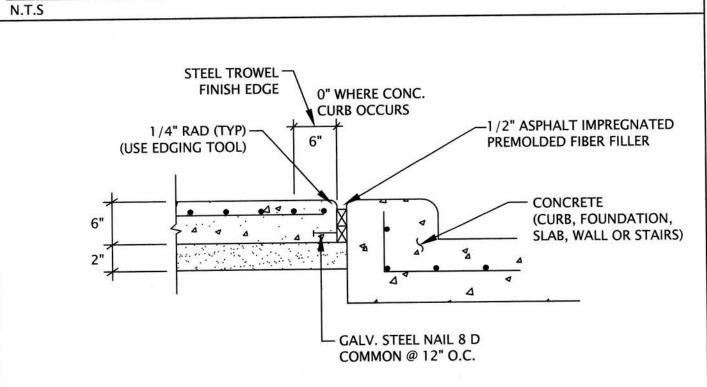
7 OF 17



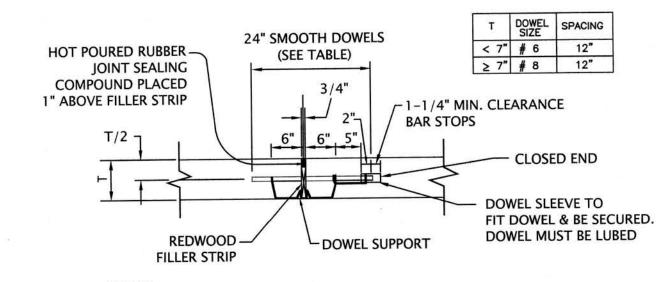




PARKING AREA



ISOLATION JOINT DETAIL

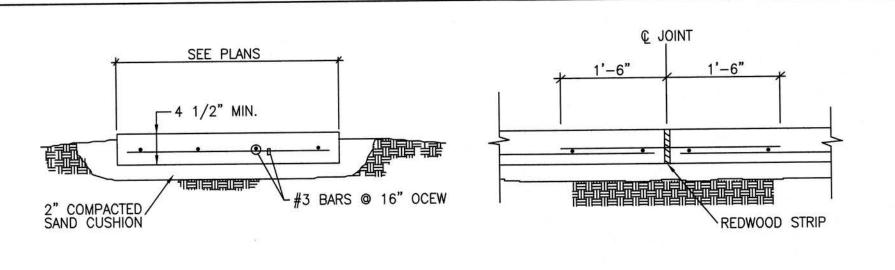


1. PAVEMENT STEEL IS NOT SHOWN FOR CLARITY AND SHALL STOP 3 INCHES FROM JOINT.

2. EXPANSION JOINTS SHALL BE PLACED AT ALL POINTS OF CURVATURE, POINTS OF TANGENCY AND ALL INTERSECTION CURB RETURN POINTS. MAXIMUM SPACING SHALL BE 600 FEET.

TRANSVERSE EXPANSION JOINT

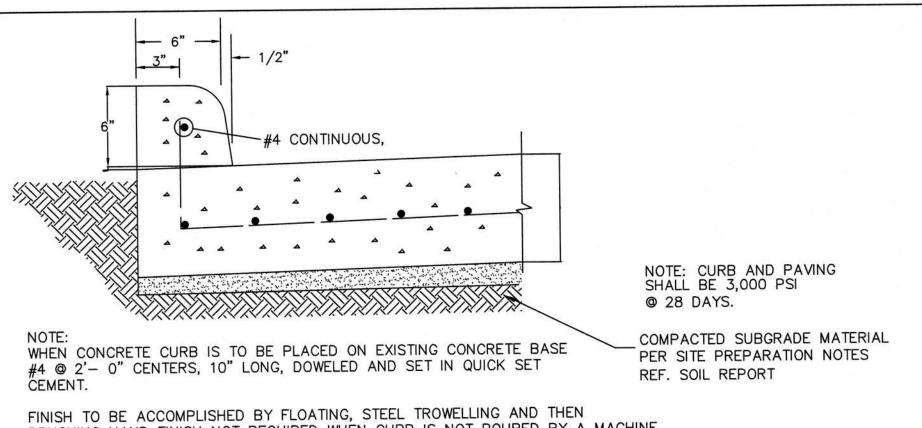
N.T.S



1. SLOPE TRANSVERSE SURFACE 1/4" PER FOOT IN DIRECTION OF DRAINAGE.

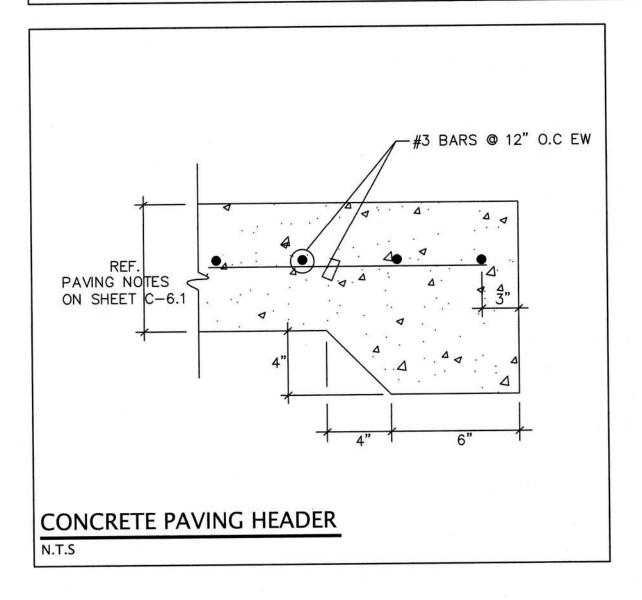
- 2. FLOAT EDGES 1/4" MAXIMUM AT CONTROL JOINTS.
- 3. USE REDWOOD STRIPS AT SPACING NOT TO EXCEED FIFTEEN (15) FEET.
- 4. USE CONTROL JOINTS AT SPACING NOT TO EXCEED FIVE (5) FEET. SCORED, TOOLED OR SAWN JOINTS SHALL BE 1/4 THE PAVEMENT THICKNESS BUT NOT LESS THAN ONE (1) INCH.

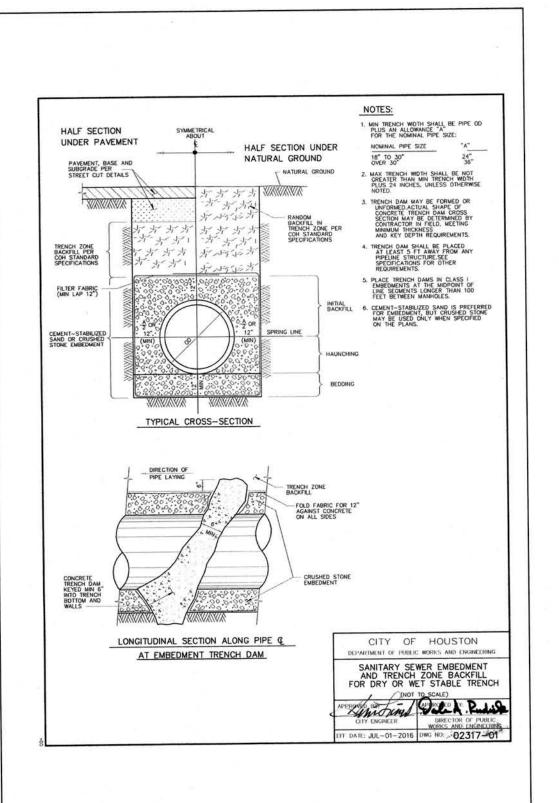
STANDARD CONCRETE SIDEWALK

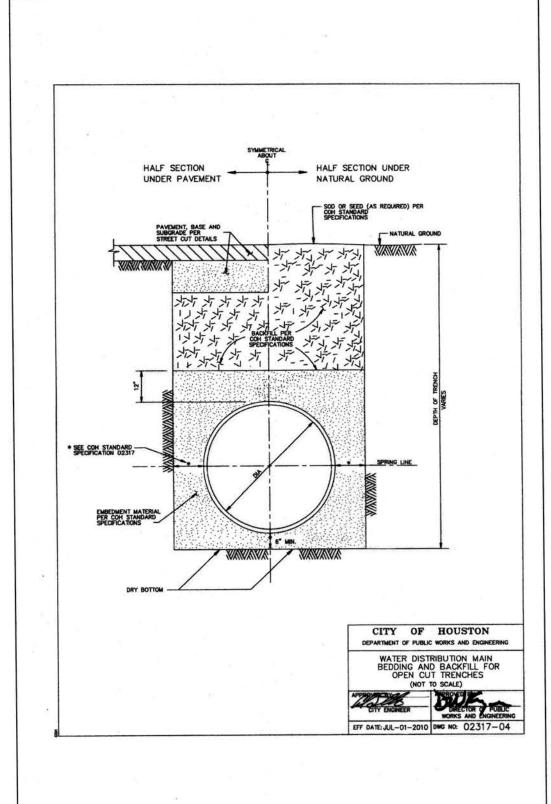


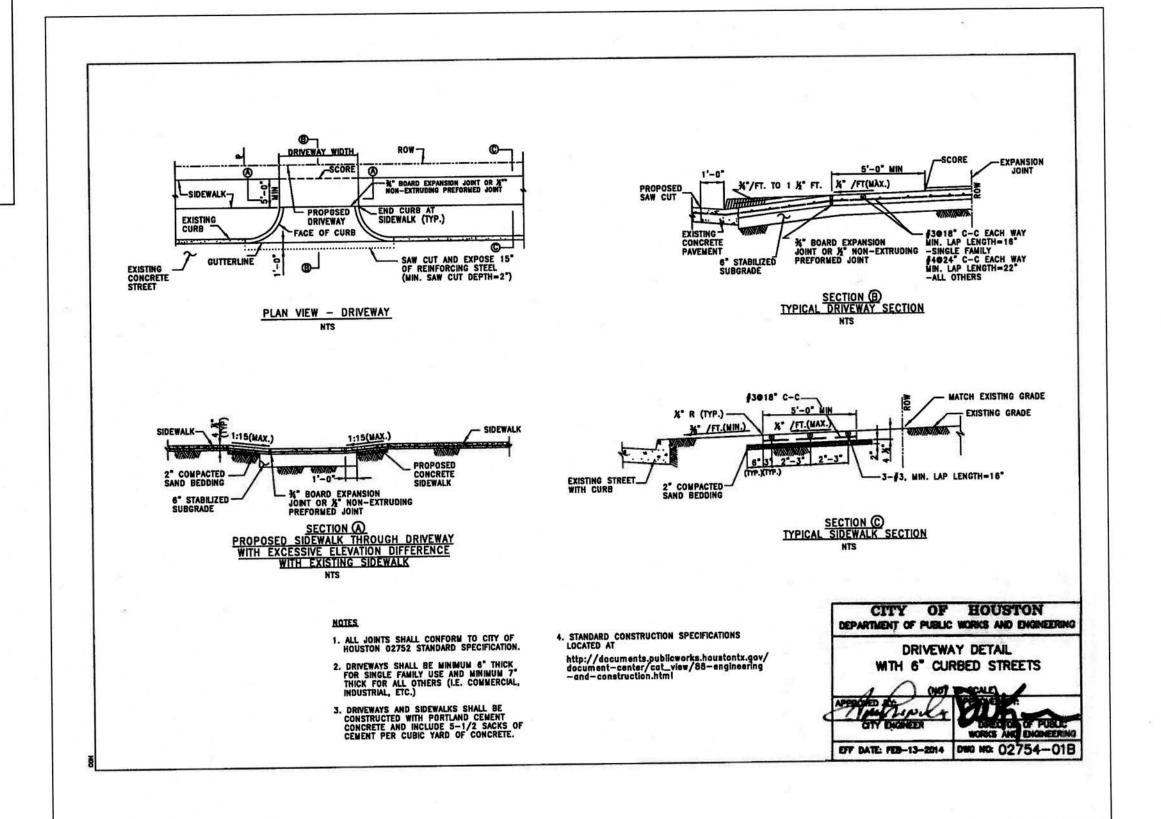
BRUSHING HAND FINISH NOT REQUIRED WHEN CURB IS NOT POURED BY A MACHINE, BUT CURB WILL HAVE THE SAME OUTSIDE DIMENSIONS, AND HAVE A BRUSHED FINISH.

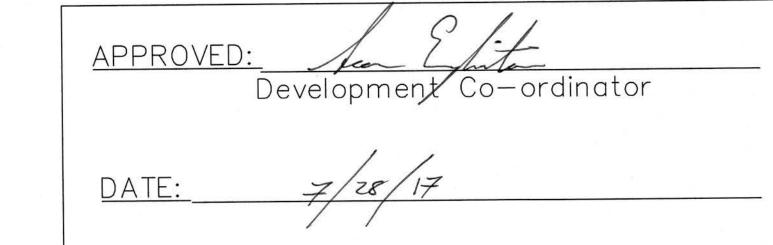
CONCRETE CURB













Katy, TX 77494 info@texasctgroup.com T.B.P.E FIRM # 15775

CATALYST TECHNICAL GROUP, INC Copyright 2013 @ CATALYST TECHNICAL GROUP INC. (CTG) this drawing and the work depicted herein are the sole property of CATALYST TECHNICAL GROUP, INC. No portion of this drawing may be copied without the express written consent of CTG, INC.

No. DATE A REVISIONS

PROJECT TITLE

EMIPL

SEAL



DATE: 4/12/2017

GENERAL NOTES:

CTG Project Number: 15-026

Issue Date: Drawn By: S.K

T.M Checked By: N.T.S.

w:\dsg\2015 dsg\2015 commercial\15-026 10323 clodine\cls\civil\revised 03-21-2017\c-5.2 paring details

SHEET TITLE: PAVING DETAILS

SHEET NUMBER:

 \mathbb{C} -5.2

GENERAL CONSTRUCTION NOTES OUTSIDE CITY LIMITS

GENERAL NOTES - OUTSIDE CITY LIMITS

- Construct wastewater collection systems, water lines and storm drainage in accordance with the latest
 edition of the publications <u>Standard Construction Specifications For Wastewater Collection</u>
 <u>Systems, Water Lines, Storm Drainage, and Street Paving and Standard Construction Details For</u>
 <u>Wastewater Collection Systems, Water Lines, Storm Drainage, and Street Paving published by the</u>
 City of Houston, Department of Public Works and Engineering.
- Utilities presented on these drawings are shown based on the best available information. Contractor shall verify the exact locations in the field prior to commencing construction. Contractor shall notify Texas One Call at 713-223-4567/811 or 800-344-8377 and Lone Star Notification Center at 800-669-8344 at least 48 hours before proceeding with any excavation.
- Contractor shall be responsible for damages to existing water, wastewater and storm drainage
 lines. Damages shall be repaired in accordance with the City of Houston, Department of
 Public Works and Engineering's <u>Standard Construction Specifications For Wastewater
 Collection Systems</u>, <u>Water Lines</u>, <u>Storm Drainage</u>, and <u>Street Paving</u> and <u>Standard
 Construction Details For Wastewater Collection Systems</u>, <u>Water Lines</u>, <u>Storm Drainage</u>, and
 <u>Street Paving</u> referenced above, at no additional cost.
- 4. Contractor shall notify the Office of the City Engineer, Department of Public Works and Engineering in writing prior to commencing construction.
- Adequate drainage shall be maintained at all times during construction and any drainage ditch or structure disturbed during construction shall be restored to existing conditions or better.
- Contractor shall comply with latest edition of OSHA regulations and the State of Texas laws concerning excavation.

GCN (OUTSIDE)-1

SWPPP CONSTRUCTION NOTES

- Contractor shall implement inlet protection devices and Reinforced Filter Fabric barrier along road and side ditches at locations shown on the typical Storm Water Pollution Prevention (SWPP) plans to keep silt and or excavated materials from entering into the storm water inlets and ditches eventually polluting the receiving storm.
- 2. During the excavation phase of the project, Contractor shall schedule the work in short segments so that excavation material can be quickly hauled away from the site and to prevent it from staying uncollected on the existing pavement. Any loose excavated material which falls on pavements or driveways shall be swept back into the excavated area.
- Contractor shall clean up the existing street intersections and driveways daily, as necessary, to remove any excess mud, silt or rock tracked form the excavated area.
- Contractor shall follow good housekeeping practices during the construction of the project, always cleaning up dirt and loose material as construction progresses.
- 5. Contractor to inspect and maintain the areas listed below at least once every fourteen(14) calendar days and within 24 hours of the end of a storm event of 0.5 inches or greater.
- Disturbed areas of the construction site that have not been finally stabilized.
- Areas used for storage of materials that are exposed to precipitation.
- Structural control measures.
- Locations where vehicles enter or exit the site.
- Contractor to be responsible to maintain existing ditches and or culverts for unobstructed drainage at all times. Where sodding is disturbed by excavation on backfilling operations, such areas shall be replaced by seeding or sodding. Slopes 4:1 or steeper shall be replaced by block sodding.

SANITARY SEWERS NOTES

- 1. ALL SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF HOUSTON "STANDARD CONSTRUCTION SPECIFICATIONS FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE, STREET PAVING, AND TRAFFIC" AND ALL CURRENT AMENDMENTS THERETO AND BE SUBJECT TO A STANDARD EXFILTRATION TEST. TESTS ARE TO BE PERFORMED ON THE TOTAL FOOTAGE OF SEWER LINE INCLUDED IN THE PROJECT. REQUIREMENTS OF TEXAS ADMINISTRATIVE CODE, TITLE 30 CHAPTER 317, "DESIGN CRITERIA FOR SEWERAGE SYSTEMS" SHALL GOVERN WHERE CONFLICTS EXIST EXCEPT WHERE CITY REQUIREMENTS ARE MORE STRINGENT.
- ALL MANHOLES ARE TO BE PER CITY OF HOUSTON STANDARD DETAILS DRAWING NUMBERS 02082-01, 02082-02, 02082N-02, 02082-03, AND 02082N-03 UNLESS OTHERWISE NOTED. USE 2010 VERSION AS APPLICABLE.
- 3. SANITARY SEWER MANHOLES WILL HAVE BEDDING AND BACKFILL PER CITY OF HOUSTON STANDARD DETAILS DRAWING NO. 02317-08 UNLESS OTHERWISE NOTED.
- SANITARY SEWER PIPE 6" AND SMALLER SHALL BE SCHEDULE 40 PVC. SANITARY SEWER PIPE 8" AND LARGER SHALL BE SDR-26 PVC.
- 5. ALL SDR-26 PVC PIPE SHALL MEET ASTM SPECIFICATION D3034 AND USE "FULL BODIED" SDR-26 PVC FITTINGS WITH APPROPRIATE ADAPTERS AND SHALL HAVE A CELL CLASSIFICATION OF 12364-B AS DEFINED IN ASTM D-1784 AND SHALL HAVE DIP SIZE OD AND RUBBER GASKET BELL-AND-SPIGOT TYPE JOINT ENDS, UNLESS OTHERWISE NOTED.
- AWWA C-900 DR-18 PVC PIPE USES EITHER AWWA C900 DR-18 PVC FITTINGS OR DIP FITTINGS.
- 7. ALL SANITARY SEWER LINES UNDER PROPOSED OR FUTURE PAVEMENT AND TO A POINT ONE (1) FOOT BACK OF ALL PROPOSED OR FUTURE CURBS SHALL HAVE BEDDING PER CITY OF HOUSTON STANDARD DETAILS DRAWING NUMBERS 02317-01, 02317-02, OR 02317-03 AS APPLICABLE, WITH 1 ½ SACK CEMENT/CY STABILIZED SAND BACKFILL UP TO THE BOTTOM OF THE PAVEMENT SUBGRADE. 100 PSI PERFORMANCE RESULTS ARE STILL REQUIRED.
- 8. ALL SANITARY SEWERS CROSSING WATER LINES WITH A CLEARANCE BETWEEN 12 INCHES AND 9 FEET SHALL HAVE A MINIMUM OF ONE 18' JOINT OF 150 PSI DUCTILE IRON OR (GREEN) C900 PVC PIPE MEETING ASTM SPECIFICATION D2241 CENTERED ON WATER LINE. WHEN WATER LINE IS BELOW SANITARY SEWER PROVIDE MINIMUM 2 FOOT SEPARATION.
- CONTRACTOR SHALL PROVIDE A MINIMUM HORIZONTAL CLEARANCE OF 9' FEET BETWEEN WATER LINES AND SANITARY SEWER MANHOLES AND LINES.
- 10. SANITARY SEWER MANHOLE RIMS OUTSIDE OF PROPOSED PAVING WILL BE SET 3" 6"
 ABOVE THE SURROUNDING LEVEL FINISHED GRADE AFTER PAVING WITH SLOPED
 BACKFILL ADDED FOR STORM WATER TO DRAIN AWAY FROM MANHOLE RIM.

SWPPP CONSTRUCTION NOTES

1. Contractor shall implement inlet protection devices and Reinforced Filter Fabric barrier

2. During the excavation phase of the project, Contractor shall schedule the work in short

3. Contractor shall clean up the existing street intersections and driveways daily, as necessary,

4. Contractor shall follow good housekeeping practices during the construction of the project,

5. Contractor to inspect and maintain the areas listed below at least once every fourteen(14)

6. Contractor to be responsible to maintain existing ditches and or culverts for unobstructed

drainage at all times. Where sodding is disturbed by excavation on backfilling operations,

such areas shall be replaced by seeding or sodding. Slopes 4:1 or steeper shall be replaced by

calendar days and within 24 hours of the end of a storm event of 0.5 inches or greater.

Disturbed areas of the construction site that have not been finally stabilized.

Areas used for storage of materials that are exposed to precipitation.

Structural control measures.

block sodding.

Locations where vehicles enter or exit the site.

falls on pavements or driveways shall be swept back into the excavated area.

to remove any excess mud, silt or rock tracked form the excavated area.

always cleaning up dirt and loose material as construction progresses.

water inlets and ditches eventually polluting the receiving storm.

along road and side ditches at locations shown on the typical Storm Water Pollution

Prevention (SWPP) plans to keep silt and or excavated materials from entering into the storm

segments so that excavation material can be quickly hauled away from the site and to prevent

it from staying uncollected on the existing pavement. Any loose excavated material which

- 11. IN WET STABLE TRENCH AREAS USE BEDDING PER CITY OF HOUSTON STANDARD DETAILS DRAWING NUMBER 02317-02 (2002).
- 12. DEFLECTION TEST: DEFLECTION TESTS SHALL BE PERFORMED ON ALL FLEXIBLE AND SEMI-RIGID SEWER PIPE. THE TEST SHALL BE CONDUCTED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS. NO PIPE SHALL EXCEED A DEFLECTION OF 5% IF THE DEFLECTION TEST IS TO BE RUN USING A RIGID MANDREL, IT SHALL HAVE A DIAMETER EQUAL TO 95% OF THE INSIDE DIAMETER OF THE PIPE. THE TEST SHALL BE PERFORMED AS PER 30 TAC 317.2 LATEST AMENDMENT AND WITHOUT MECHANICAL PULLING DEVICES. NO BALL-TYPE MANDREL IS ALLOWED.
- 13. INFILTRATION, EXFILTRATION OR LOW-PRESSURE AIR TEST: EITHER OF THE FOLLOWING TESTS SHALL BE PERFORMED AS PER TAC, TITLE 30 317.2 WITHIN THE SPECIFIED TOLERANCES ON ALL GRAVITY SEWERS.
- A. INFILTRATION OR EXFILTRATION TEST: TOTAL LEAKAGE AS DETERMINED BY A HYDROSTATIC HEAD TEST SHALL NOT EXCEED 50 GALLONS PER INCH DIAMETER PER MILE OF PIPE PER 24 HOURS AT A MINIMUM TEST HEAD OF TWO (2) FEET.
- B. LOW-PRESSURE AIR TEST: PERFORM TEST ACCORDING TO UNI-B-6-90 OR OTHER APPROPRIATE PROCEDURES. FOR SECTIONS OF PIPE LESS THAN 36" (INCH) AVERAGE INSIDE DIAMETER, THE MINIMUM ALLOWABLE TIME FOR PRESSURE DROP FROM 3.5 P.S.I.G. TO 2.5 P.S.I.G. SHALL BE AS FOLLOWS:

6" 340 SECONDS OR 0.855(L) FOR TEST LENGTHS GREATER THAN 398' 8" 454 SECONDS OR 1.520(L) FOR TEST LENGTHS GREATER THAN 298' 10" 567 SECONDS OR 2.374(L) FOR TEST LENGTHS GREATER THAN 239' 15" 850 SECONDS OR 5.342(L) FOR TEST LENGTHS GREATER THAN 159' 18" 1020 SECONDS OR 7.693(L) FOR TEST LENGTHS GREATER THAN 133'

WHERE L = LENGTH OF LINE OF SAME PIPE SIZE IN FEET.

- 14. "SAN. S. E." INDICATES "SANITARY SEWER EASEMENT"
- 15. FOR SANITARY MANHOLE (MH) RIMS SET INSIDE OF OR @ CURB & GUTTER PAVEMENT AND/OR BELOW T.C., MH RIMS WILL BE SET FLUSHED WITH AN ABUTTING PAVED SURFACE. THE (VALCUN, NEENAH OR EQUAL) HEAVY DUTY BOLTED SOLID MH COVER SHALL BE PROPERLY (AND SECURELY) ATTACHED AND SEALED TO ITS COMPATIBLE GASKETED FRAME BY USING BOTH A NEOPRENE GASKET AND (AT LEAST) 4 COUNTERSUNK HEX-HEAD COARSE THREADED ½"-13 UNC STAINLESS STEEL BOLTS. THE HEAVY DUTY FRAME MH COVER SHALL BE SOLID (NO AIR HOLES). SAID FRAME SHALL BE BOTH EMBEDDED INTO THE MH'S TOP ALSO SECURELY ANCHORED TO THE UNDERLYING MH STRUCTURE WITH EITHER SECURELY ATTACHED EMBEDDED ANCHOR BOLTS OR THE CONCRETE MH'S EXPOSED REBARS WELDED TO THE FRAME OR OTHER EQUALLY SECURED METHODS TO PREVENT MH COVER/FRAME BLOW-OFFS/EJECTIONS.

STORM CONSTRUCTION NOTES

- STORM SEWER SHALL BE REINFORCED CONCRETE PIPE (C-76, CLASS III), AND SHALL BE INSTALLED, BEDDED, AND BACK FILLED IN ACCORDANCE WITH THE CITY OF HOUSTON STANDARD DETAILS DRAWING NOS. 02317-02, 02317-3, 02317-05, 02317-06, AND 02317-07 (OCT. 2002) AS APPLICABLE UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
- ALL STORM SEWER CONSTRUCTED IN SIDE LOT EASEMENT SHALL BE R.C.P (C-76, CLASSIII) AND SHALL BE EMBEDDED IN ACCORDANCE WITH THE CITY OF HOUSTON STANDARD DETAILS DRAWING NOS. 02317-02, 02317-03, 02317-05, 02317-06, AND 02317-07 AS APPLICABLE.
- 3. ALL SEWER UNDER PROPOSED OR FUTURE PAVEMENT AND TO A POINT ONE (1) FOOT BACK OF ALL PROPOSED OR FUTURE CURBS SHALL BE BACKFILLED WITH 1-1/2 SACK CEMENT/C.Y. STABLIZED SAND TO WITHIN ONE (1) FOOT OF SUBGRADE. THE REMAINING DEPTH OF TRENCH SHALL BE BACKFILLED WITH SUITABLE EARTH MATERIAL.
- 4. ALL TRENCH BACKFILL SHALL BE IN 8" LIFTS, WITH TESTS TAKEN AT 100 FOOT INTERVALS IN EACH LIFT, AND MECHANICALLY COMPACTED TO A DENSITY OF NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR COMPACTION TEST (ASTM D-698/AASHTO T99).
- CIRCULAR AND ELLIPTICAL REINFORCED CONCRETE PIPE SHALL BE INSTALLED USING RUBBER GASKET JOINT CONFORMING TO ASTM C443 AND ASTM C877 RESPECTIVELY.
- 6. ALL STORM SEWER PIPES AND INLET LEADS SHALL BE 24" AND LARGER R.C.P. (C-76,
- 7. ALL PROPOSED PIPE STUB-OUTS FROM MANHOLES AND INLET LEADS ARE TO BE PLUGGED WITH 8" BRICK WALLS UNLESS OTHERWISE NOTED.
- 8. CONTRACTOR SHALL PROVIDE 12" MINIMUM VERTICLE CLEARANCE AT STORM SEWER
- AND WATER LINE CROSSINGS.

 9. ADJUST MANHOLE COVERS TO GRADE CONFORMING TO REQUIREMENTS OF SECTION
- 02086-ADJUSTING MANHOLES, INLETS, AND VALVE BOXES TO GRADE.

 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, MAINTAINING, AND
- RESTORING ANY BACK SLOPE DRAINAGE SYSTEM DISTURBED AS A RESULT OF THIS WORK.
- 11. ALL DITCHES SHALL BE GRADED TO PROPOSED ELEVATIONS TO ENSURE PROPER DRAINAGE. ALL OUTFALLS SHALL BE PROPERLY BACKFILLED AND COMPACTED. ALL DISTURBED AREA SHALL BE REGRADED, SEEDED, AND FERTILIZED.
- 12. ALL DRIVEWAYS SHALL BE LOCATED TO AVOID EXISTING CURB INLET STRUCTURE.

Suite 19 Katy, TX Ph.:832 info@te

Suite 1503 Katy, TX 77494 Ph.:832-913-1888 info@texasctgroup.com T.B.P.E FIRM # 15775

440 Cobia Drive

CATALYST TECHNICAL GROUP, INC

Copyright 2013 © CATALYST TECHNICAL GROUP, INC. (CTG) this drawing and the work depicted herein are the sole property of CATALYST TECHNICAL GROUP, INC. No portion of this drawing may be copied without the express written consent of CTG, INC.

- 64					
	No.	DATE	Δ	REVISIONS	
- 1					

PROJECT TITLE

LOCATED AT
0323 CLODINE ROAD

SEAL



DATE: 11/15/2016

GENERAL NOTES:

CTG Project Number: 15-026

Issue Date:	August 29, 2016
Drawn By:	S.K
Checked By:	T.M
Scale:	N.T.S.

File Path:

#:\dwg\2015 dwg\2015 commercia\15-026 10323 clodine\ctg\civil\revised 08-04-2016\n-1 note

SHEET TITLE:

STANDARD NOTES

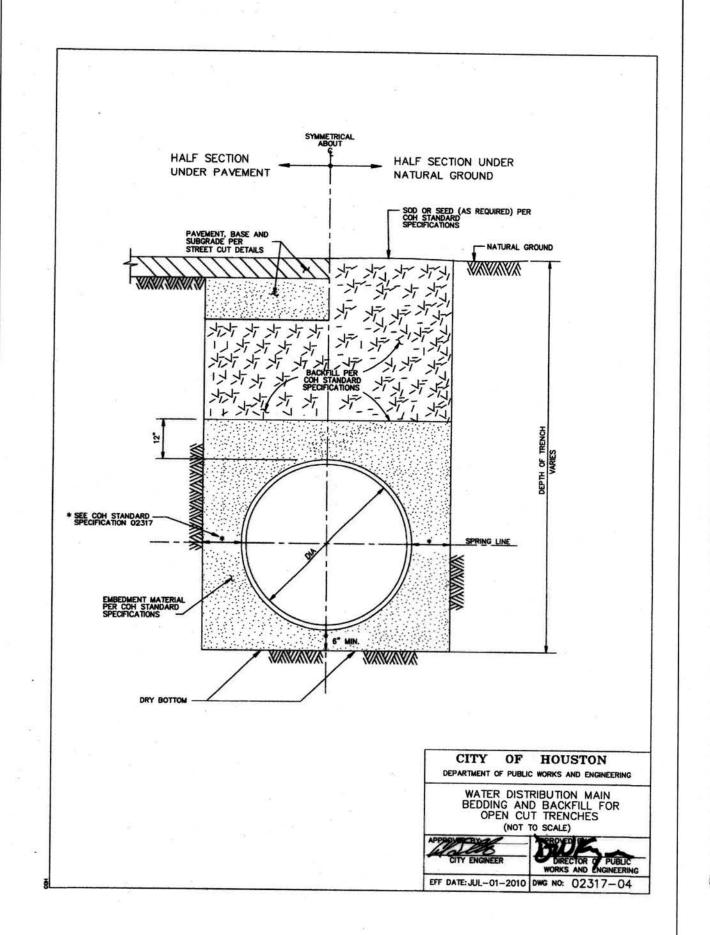
SHEET NUMBER: 10 OF 15

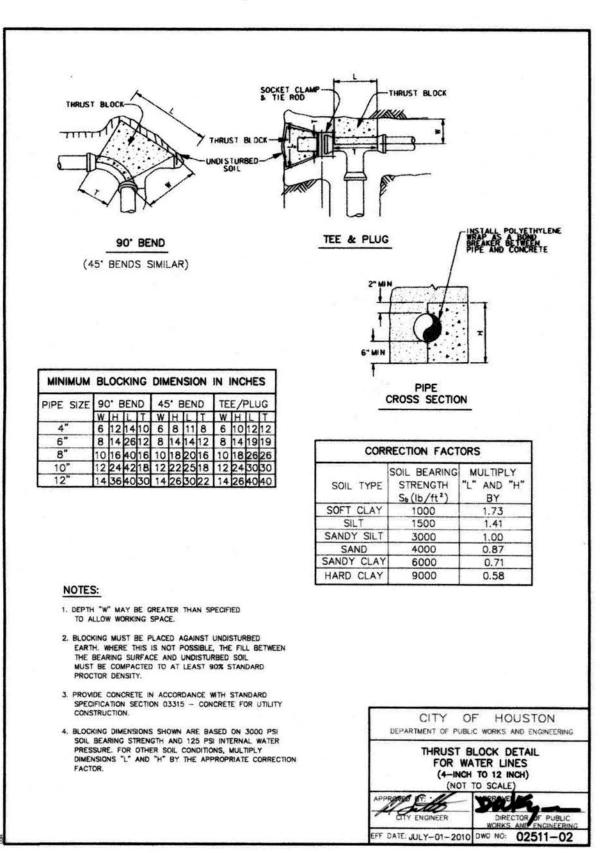
N-1

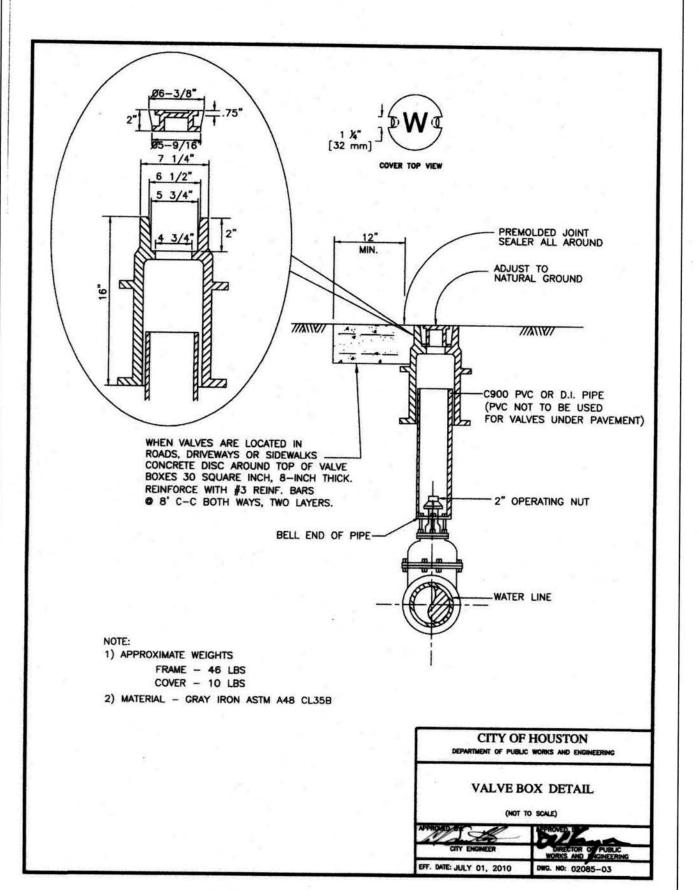
APPROVED:

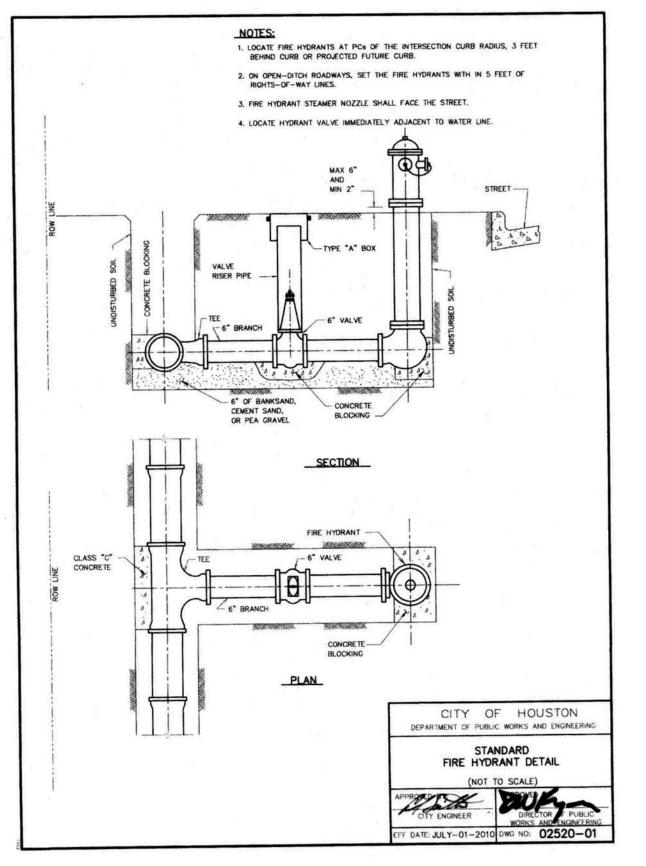
Development 06-ordinator

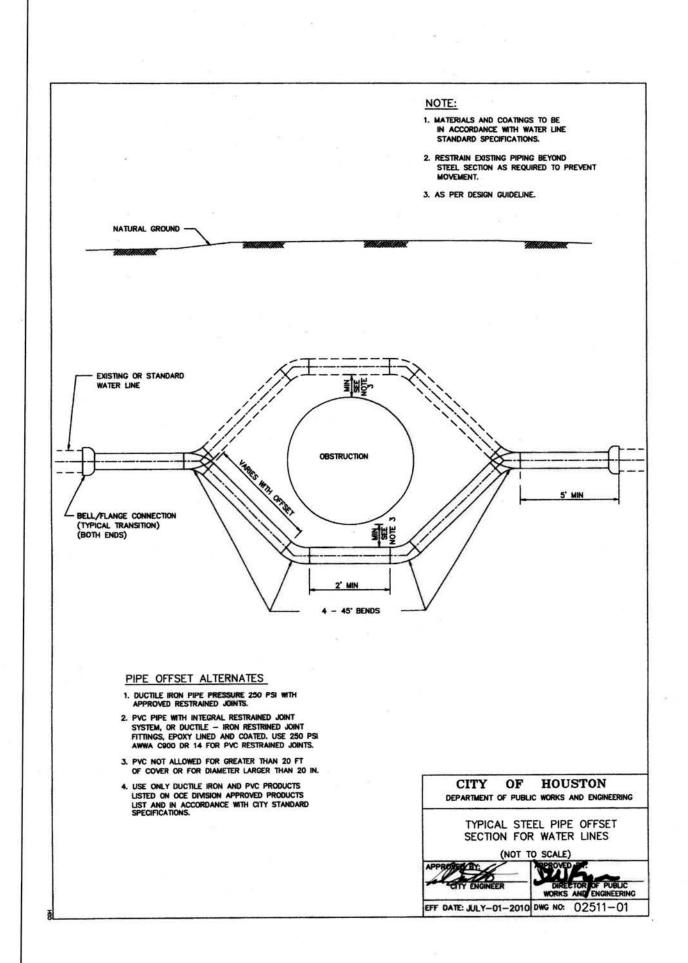
DATE: 7/28/17

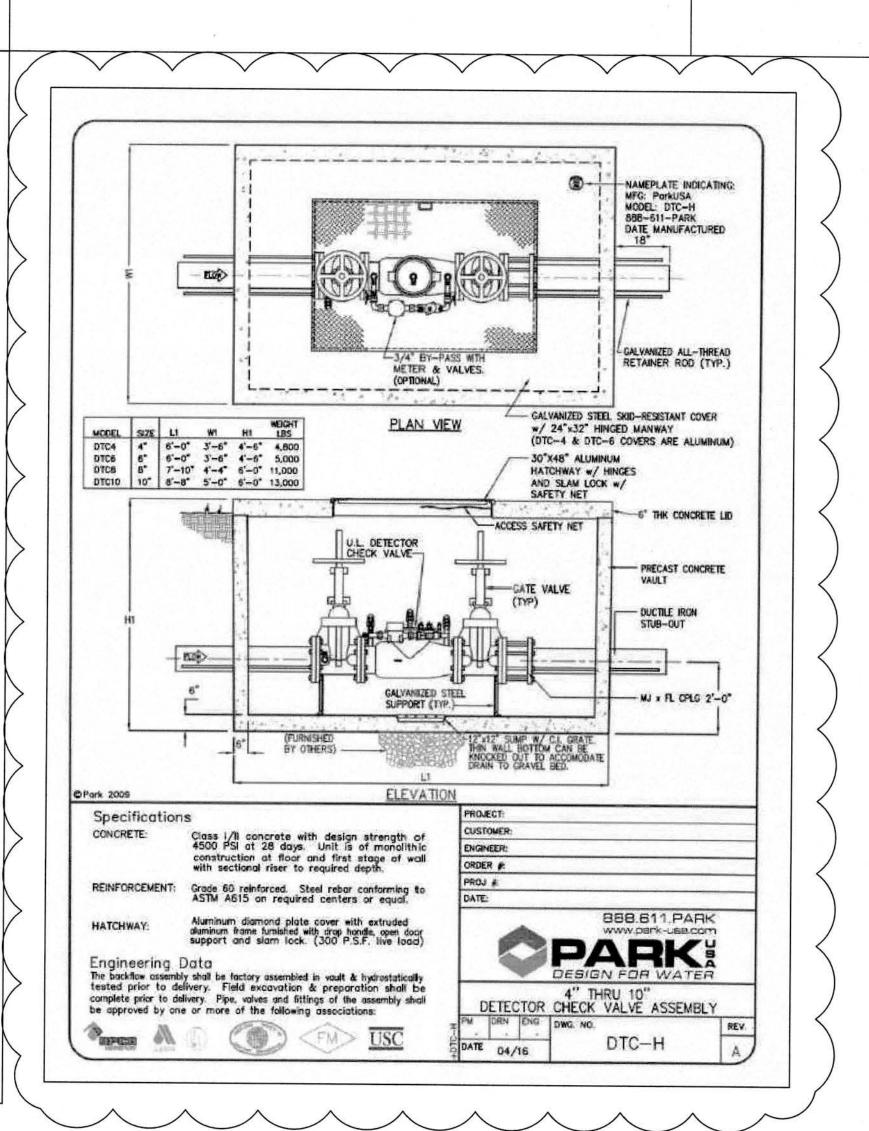














440 Cobia Drive Katy, TX 77494 Ph.:832-913-1888 info@texasctgroup.com T.B.P.E FIRM # 15775

CATALYST TECHNICAL GROUP, INC

Copyright 2013 @ CATALYST TECHNICAL GROUP. INC. (CTG) this drawing and the work depicted herein are the sole property of CATALYST TECHNICAL GROUP, INC. No portion of this drawing may be copied without the express written consent of CTG, INC.

No. DATE A REVISIONS

PROJECT TITLE

EMPLE

BF

SEAL

DATE: 5/17/2017

GENERAL NOTES:

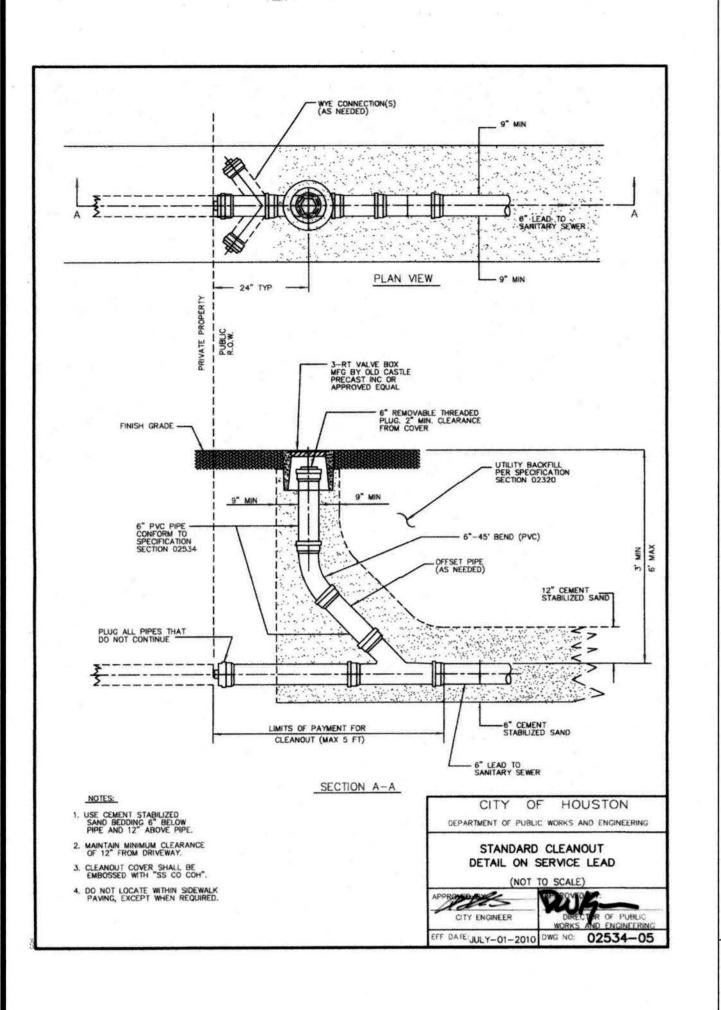
CTG Project Number: 15-026 Issue Date: August 5, 2016 Drawn By: S.K Checked By: T.M Scale: N.T.S. File Path:

w:\dwg\2015 dwg\2015 commercial\15-026 10323 clodine\ctg\civil\revised 08--04-2016\r-2 wat SHEET TITLE:

CONST. DETAILS -WATER

SHEET NUMBER:

11 OF 15



316 SS PICK SLOT (SEE NOTE 2)

ASSEMBLY VIEW - W/ HINGE

TRAFFIC APPROACH

DIRECTION (SEE NOTE 5)

EDGE OF THE HINGE MECHANISM.

NON-METALLIC MANHOLE

FRAME AND COVER

(NOT TO SCALE)

EFF DATE: JUN-15-16 DWG NO: 02091-01

APPROVED BY:

CITY ENGINEER

APPROVED BY:

ASSEMBLY VIEW

SECTION A-A

COVER SIZE (EXACT) (EXACT) (MAX) (MAX) 24" 23.75 22.00 4.50 35.00 32" 32.00 30.00 5.00 41.00

LOCK DETAIL

LOCK CUT AWAY SECTION DETAIL

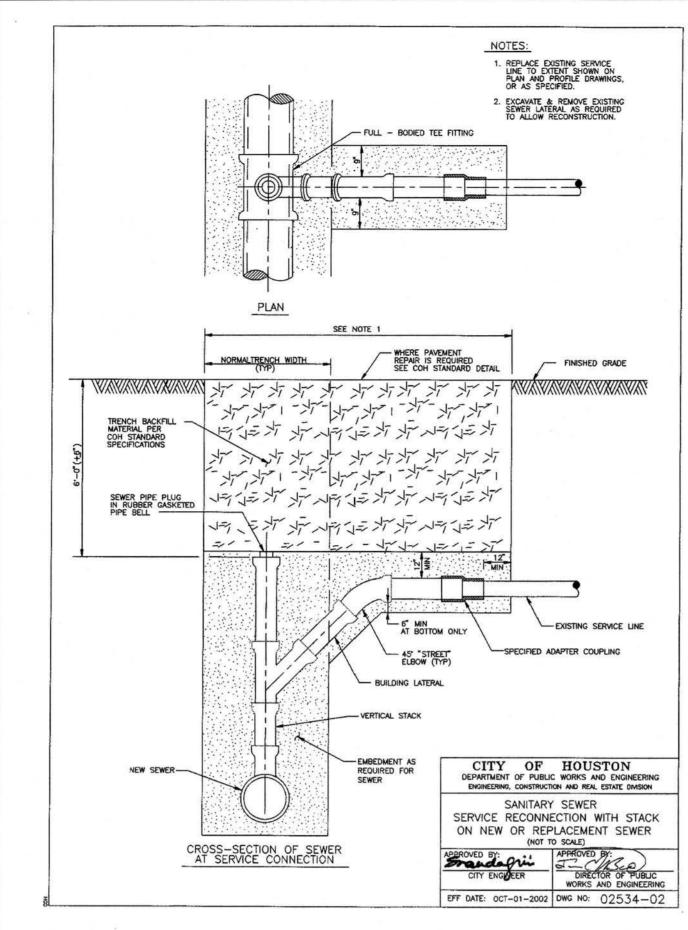
C F H W

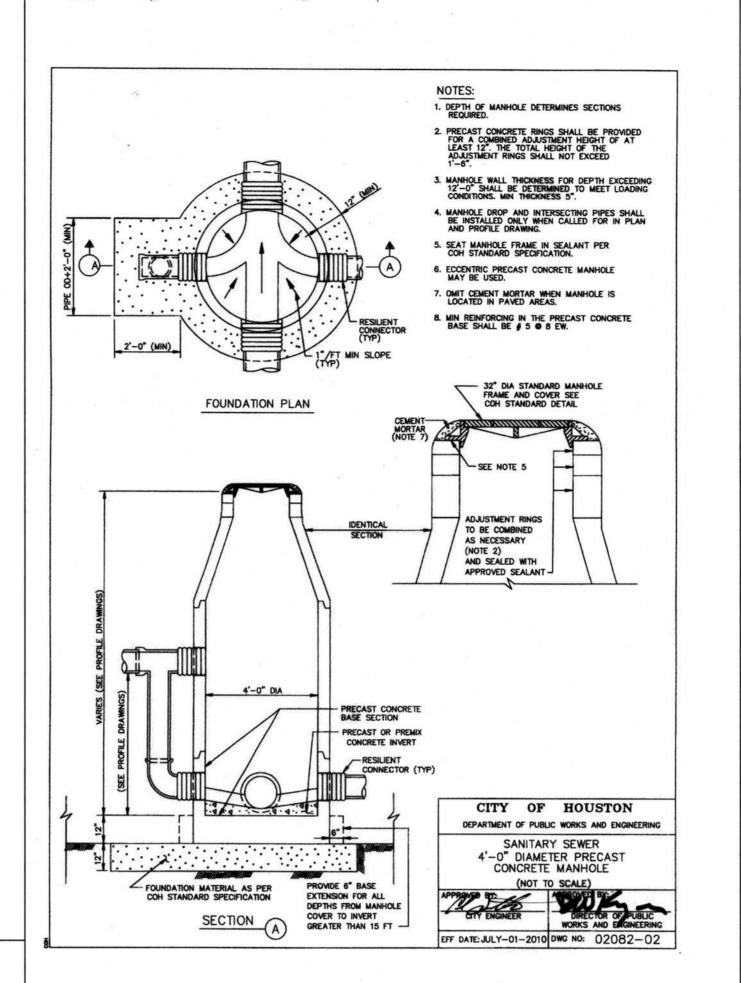
TWO LOCK (1 OF 2)

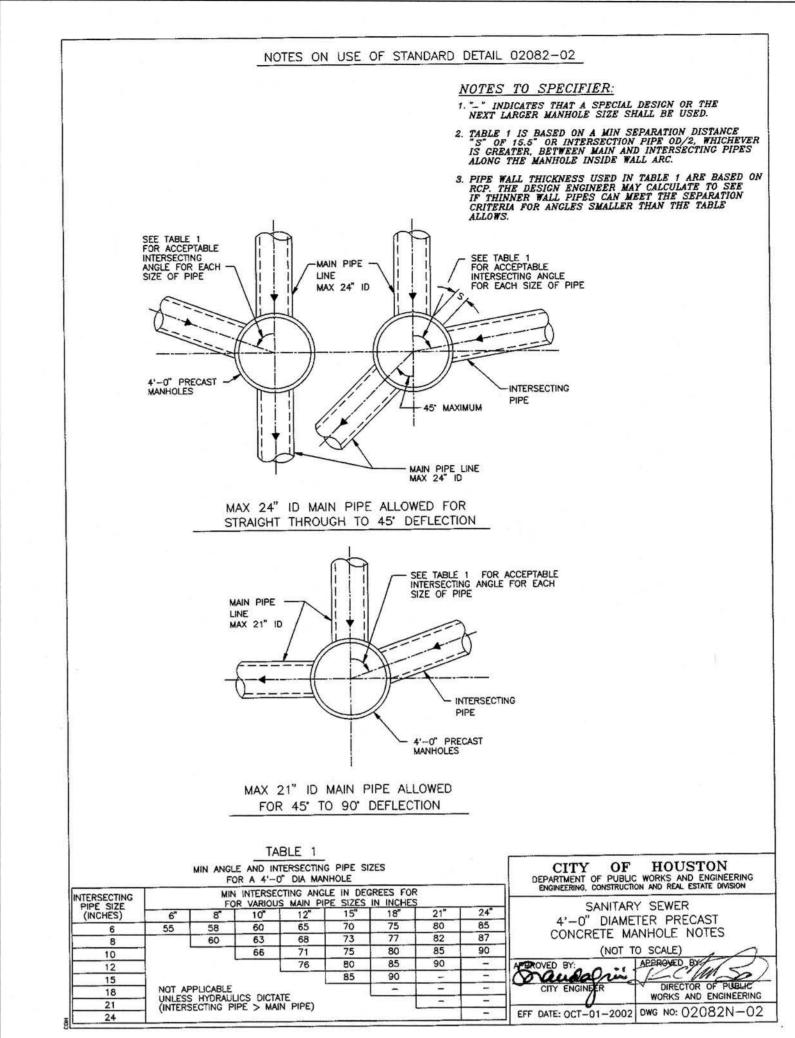
TWO LOCK (2 OF 2) EXAMPLE LOCATION

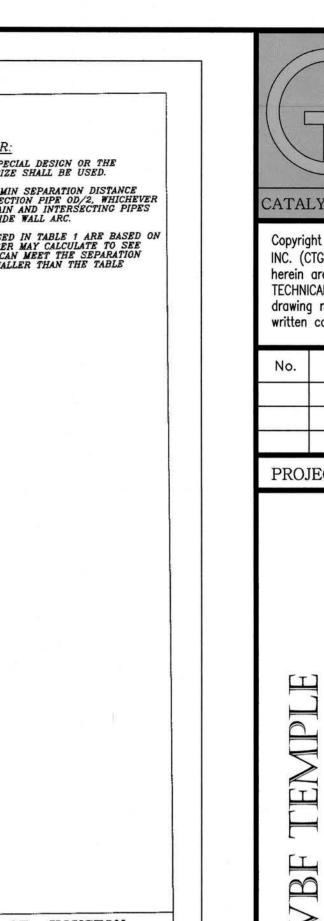
EXAMPLE LOCATION

CATALYST TECHNICAL GROUP, INC.









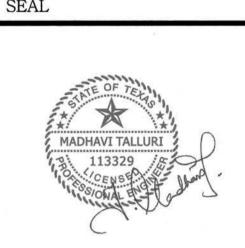


Copyright 2013 @ CATALYST TECHNICAL GROUP INC. (CTG) this drawing and the work depicted herein are the sole property of CATALYST TECHNICAL GROUP, INC. No portion of this drawing may be copied without the express written consent of CTG, INC.

DATE A REVISIONS

PROJECT TITLE

1 -



DATE: 11/15/2016

GENERAL NOTES:

CTG Project Number: 15-026 Issue Date: August 5, 2016 S.K Drawn By: T.M Checked By: N.T.S. Scale: File Path:

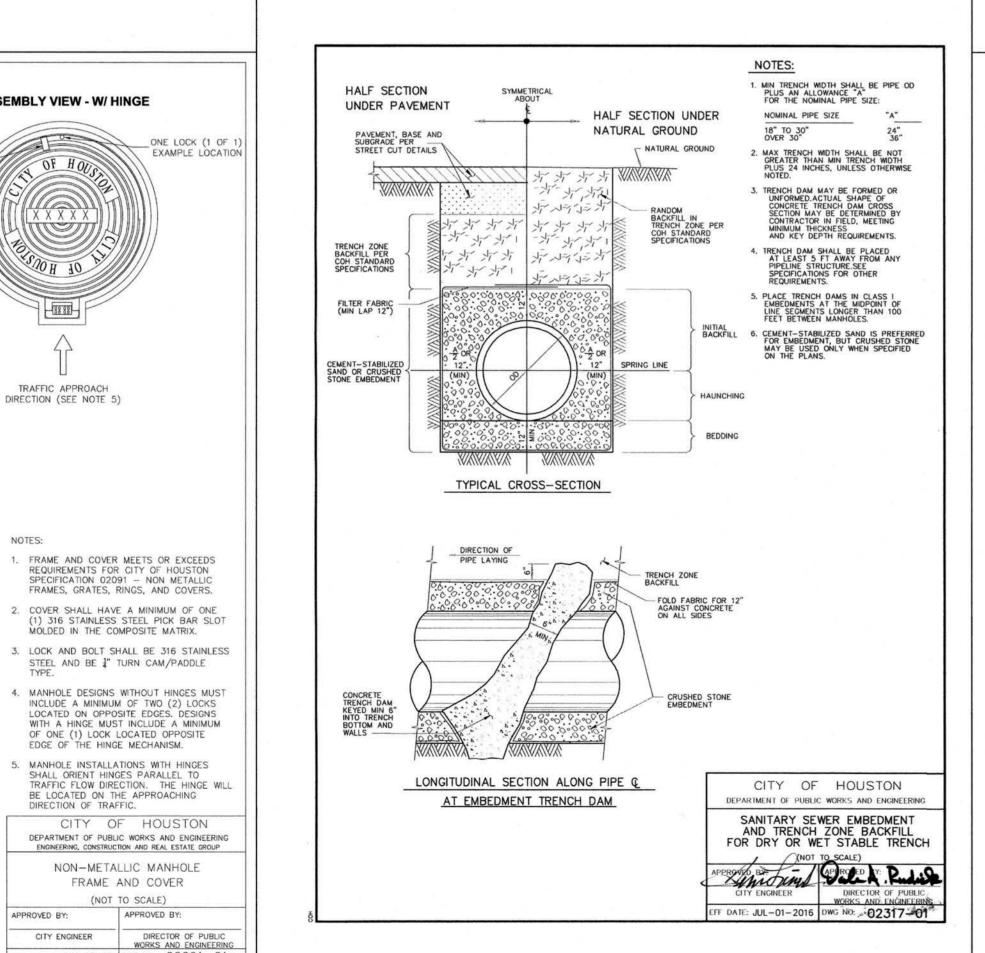
w:\dwg\2015 dwg\2015 commercial\15-026 10323 clodine\ctg\chil\revised 08-04-2016\r-4 SHEET TITLE:

STANDARD

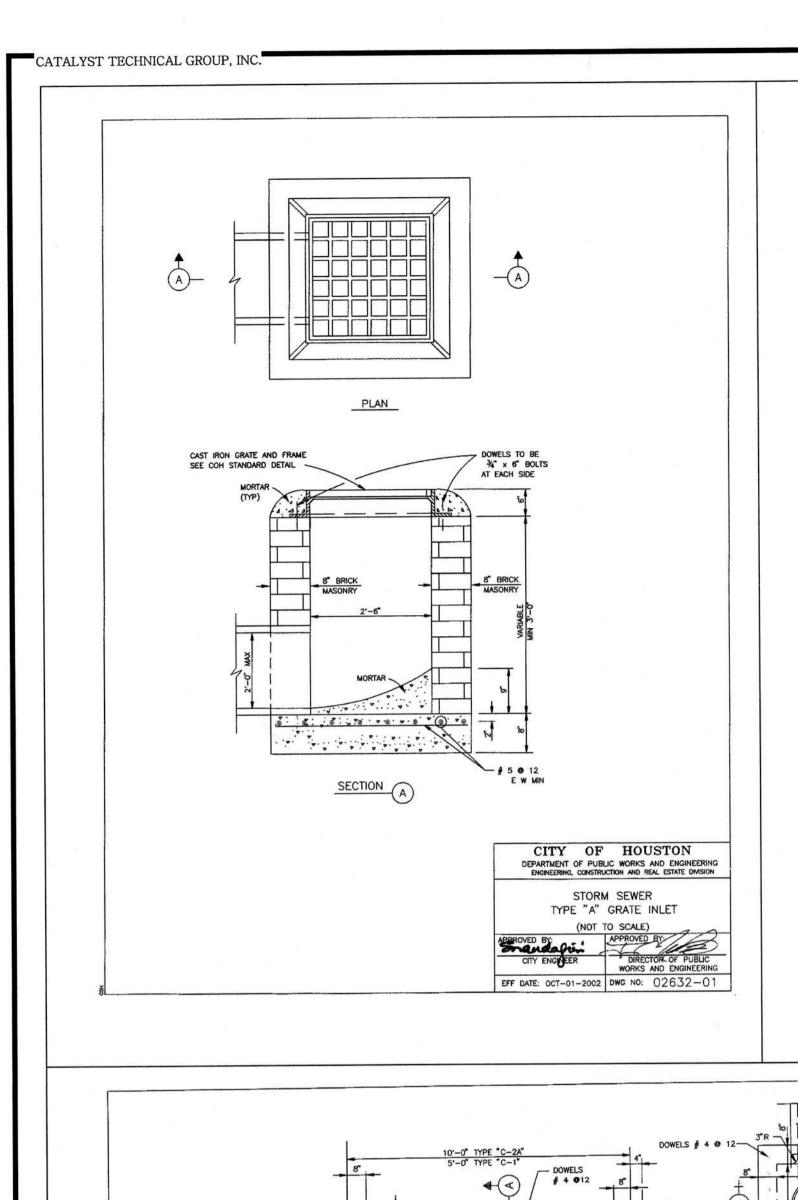
12 OF 15 SHEET NUMBER:

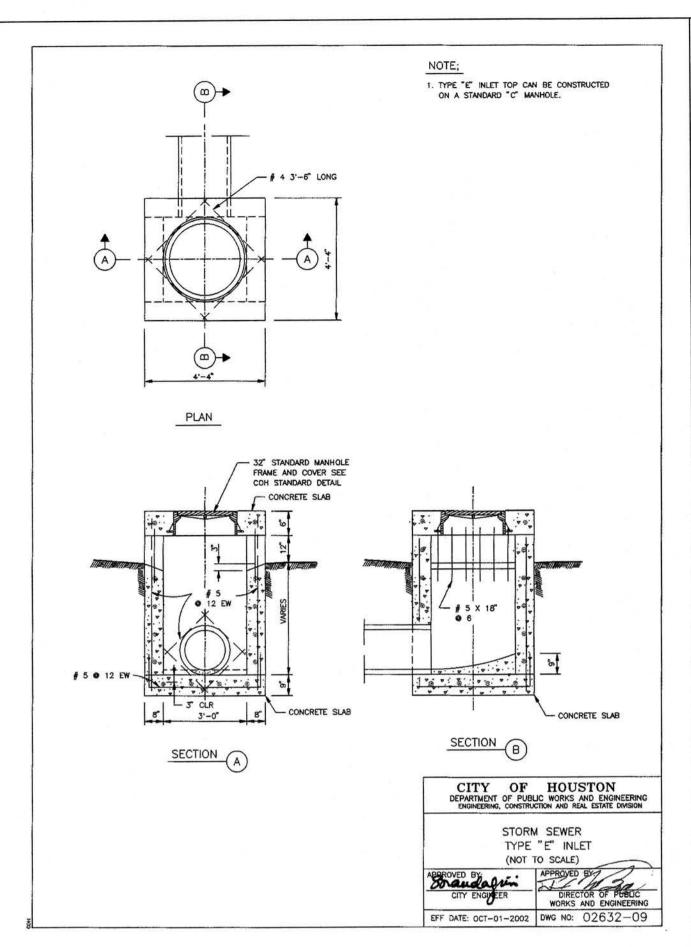
SANITARY DETAILS

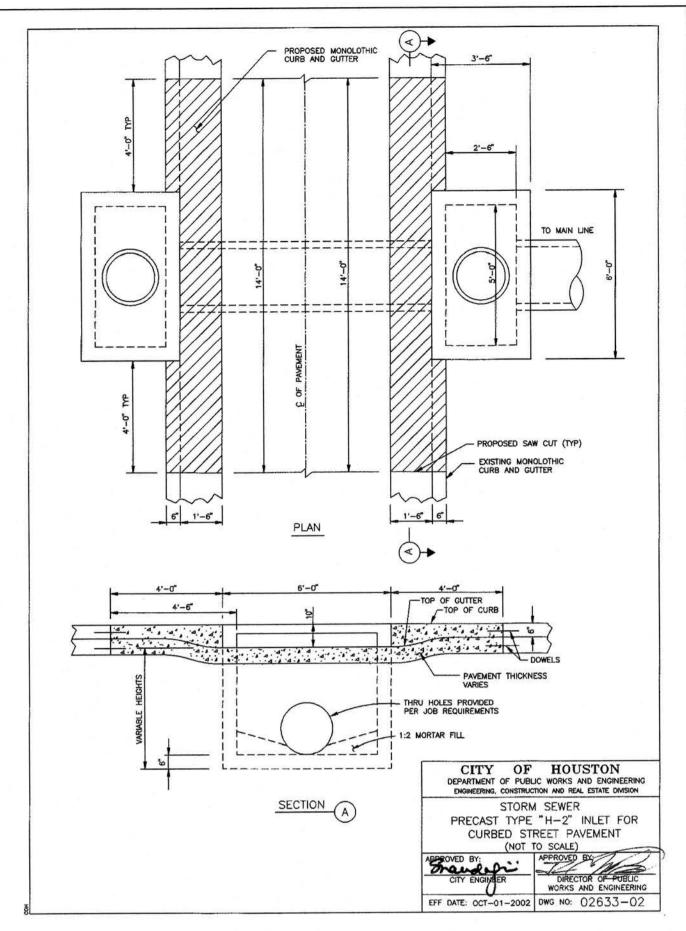
SD-2

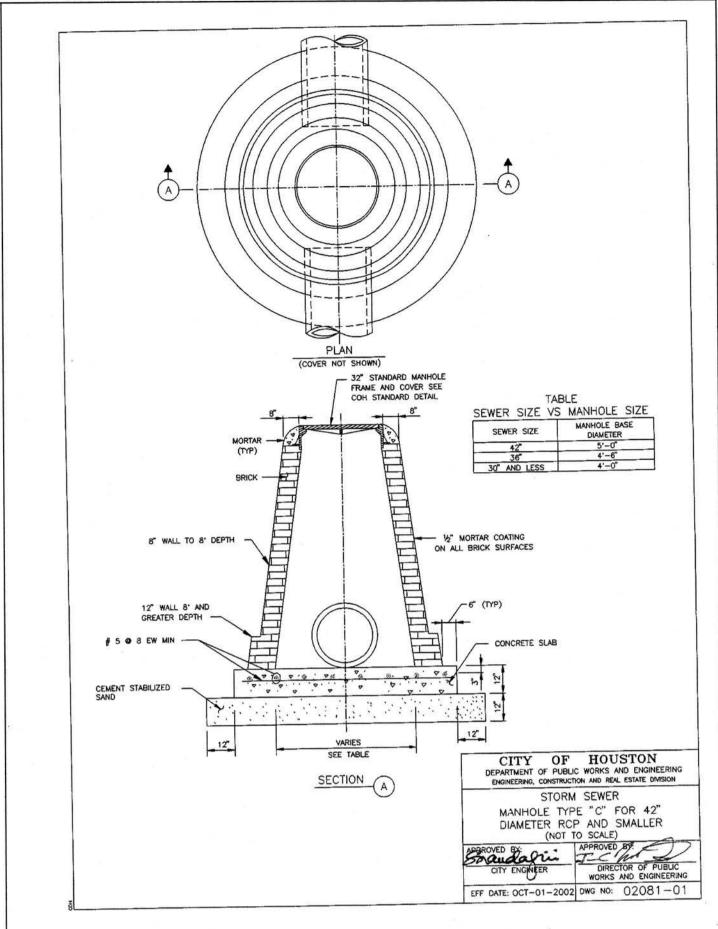


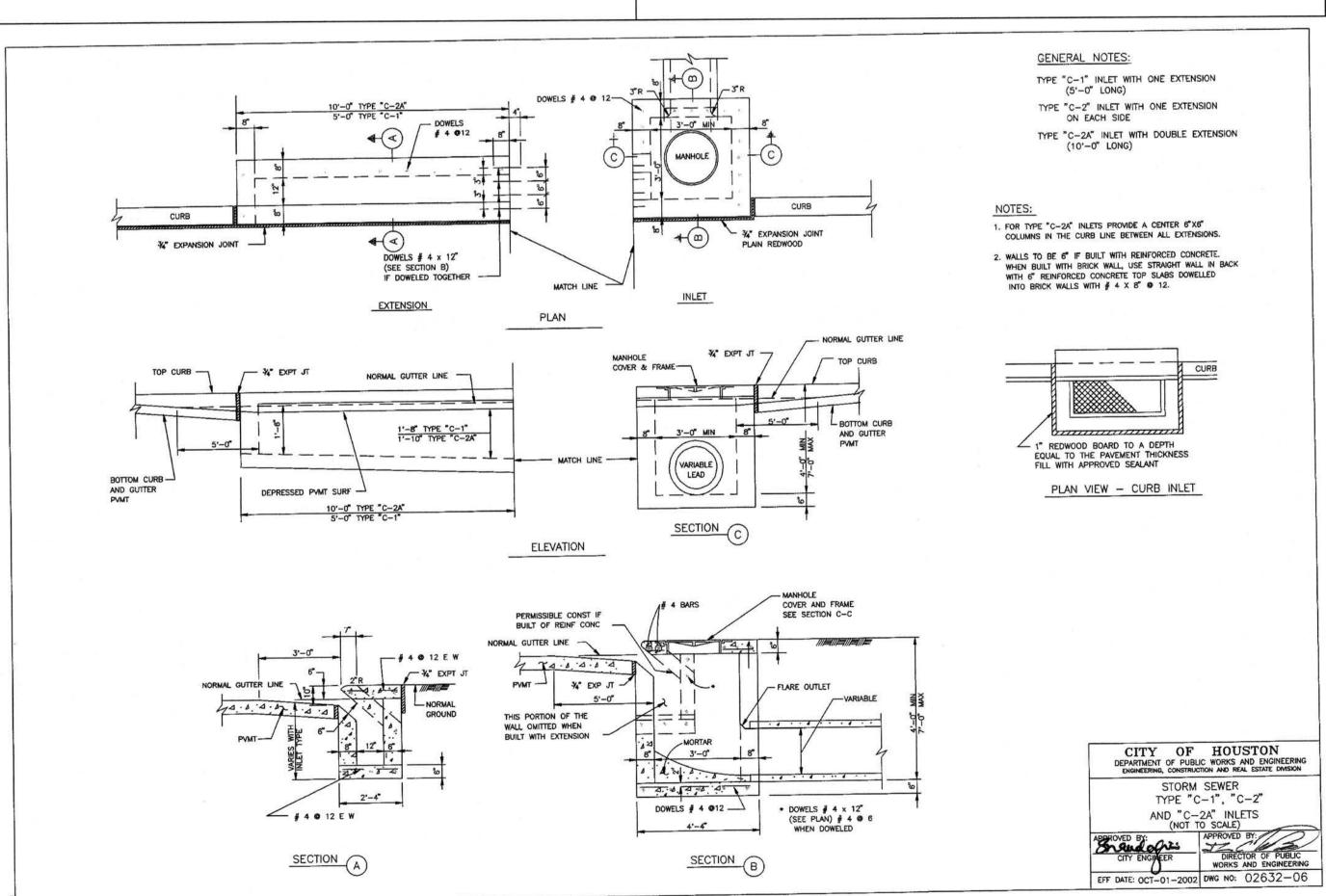


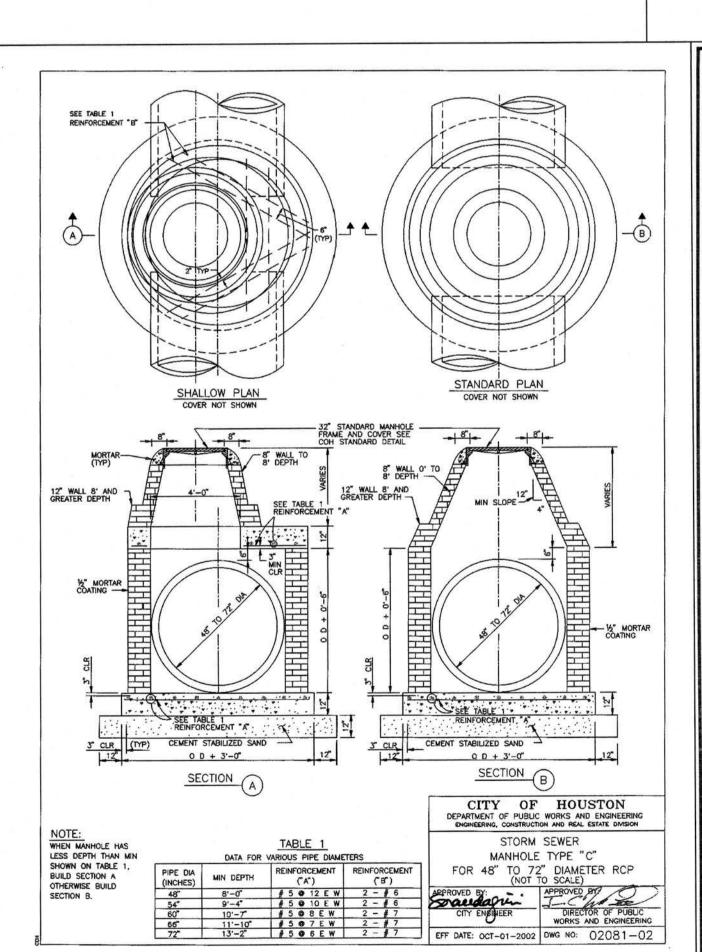


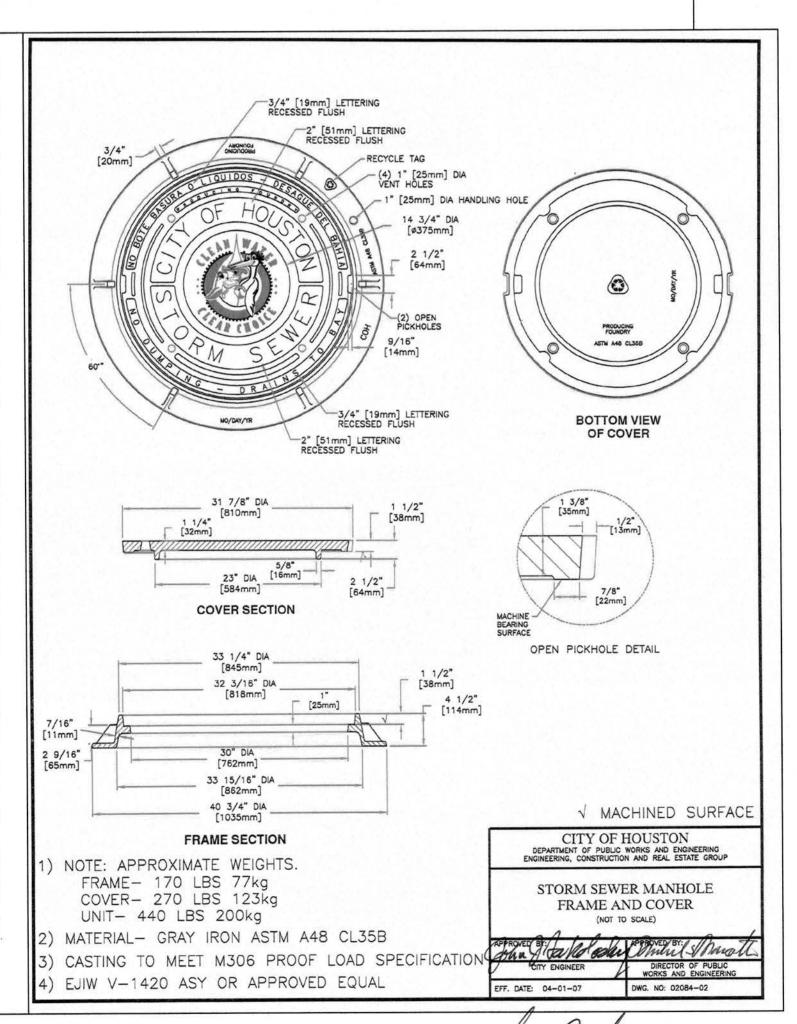


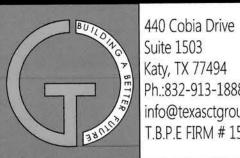












Katy, TX 77494 Ph.:832-913-1888 info@texasctgroup.com .B.P.E FIRM # 15775

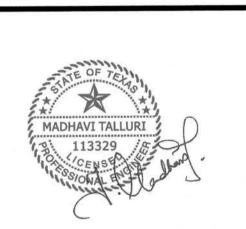
CATALYST TECHNICAL GROUP, INC

Copyright 2013 @ CATALYST TECHNICAL GROUP INC. (CTG) this drawing and the work depicted herein are the sole property of CATALYST TECHNICAL GROUP, INC. No portion of this drawing may be copied without the express written consent of CTG, INC.

э.	DATE 🛆	REVISIONS
		VA

PROJECT TITLE

EMP



DATE: 11/15/2016

GENERAL NOTES:

CTG Project Number: 15-026 August 5, 2016 Issue Date:

S.K Drawn By: T.M Checked By: N.T.S. Scale:

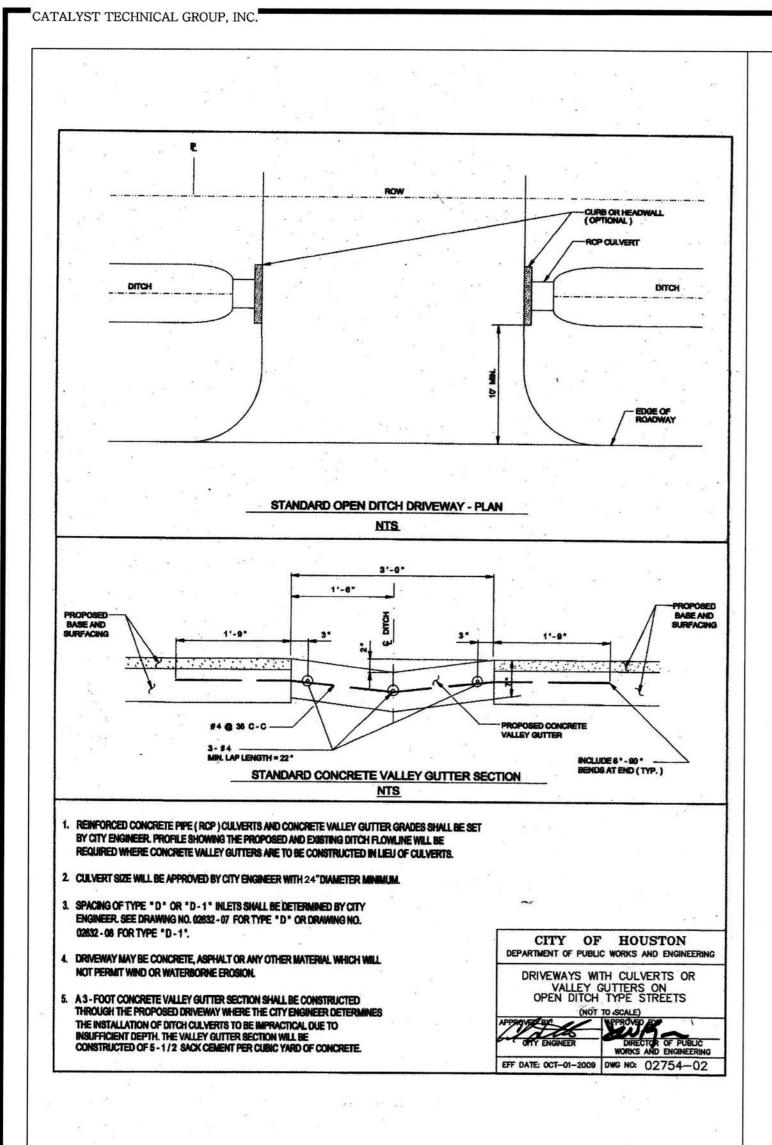
File Path:

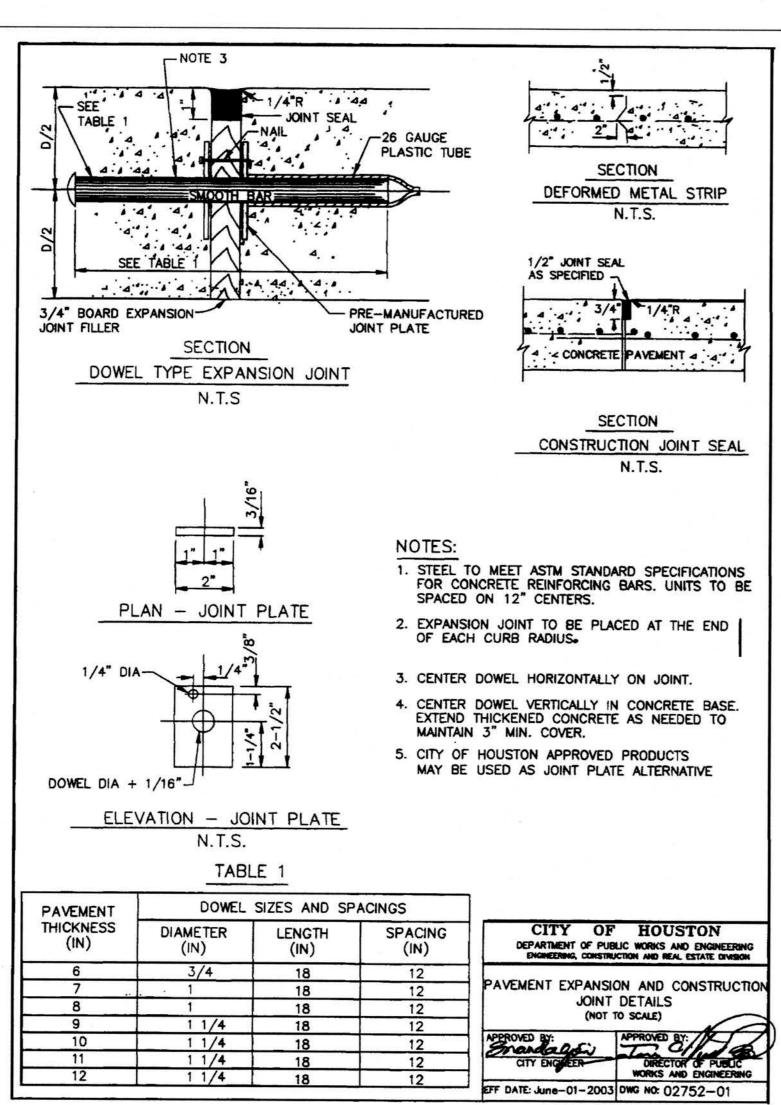
w:\dwg\2015 dwg\2015 commercial\15-026 10323 clodine\ctg\chil\revised 08-04-2016\r-5 sto

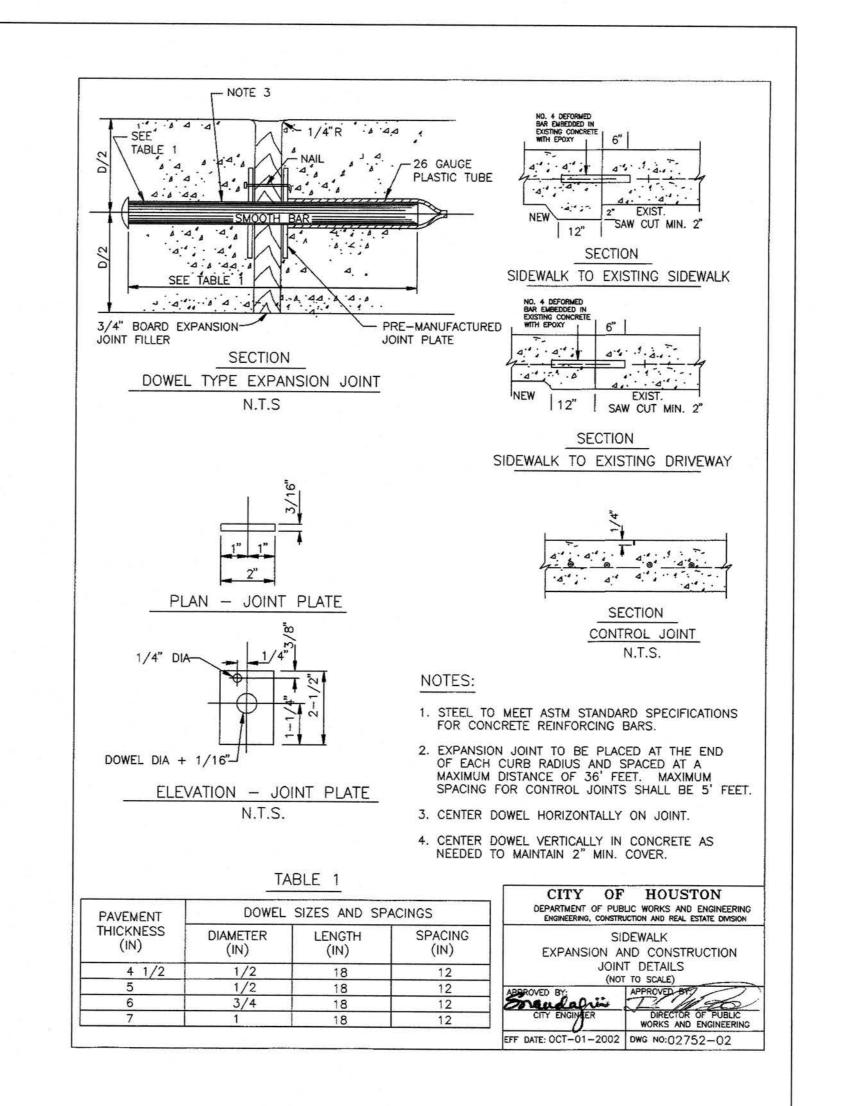
SHEET TITLE:

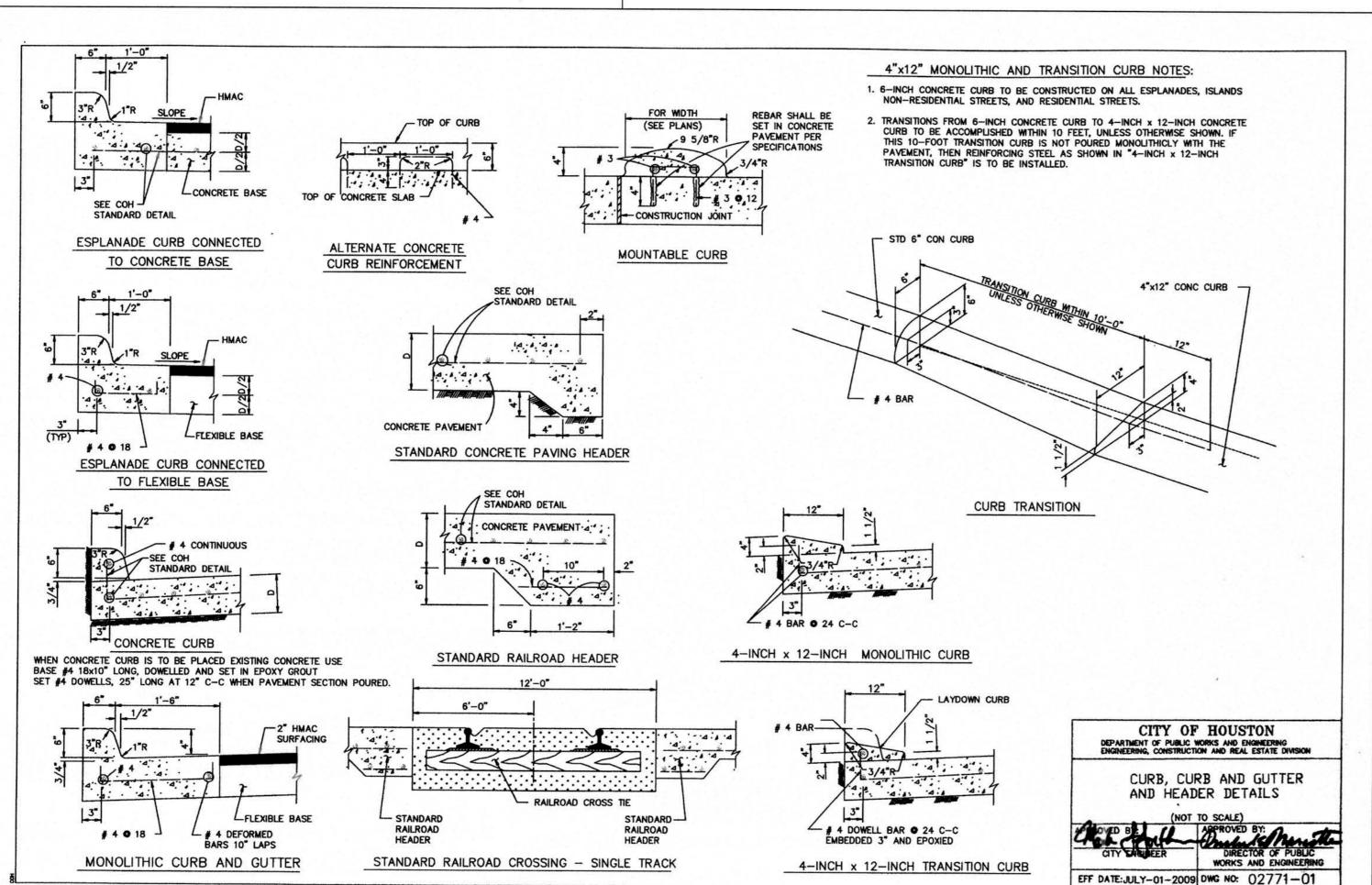
STANDARD DETAILS STORM

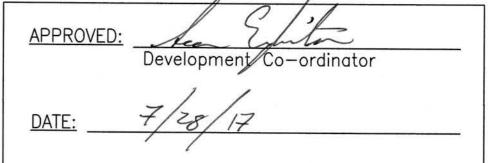
SHEET NUMBER: 13 OF 15











440 Cobia Drive Suite 1503 Katy, TX 77494 Ph.:832-913-1888 info@texasctgroup.com T.B.P.E FIRM # 15775

CATALYST TECHNICAL GROUP, INC

Copyright 2013 @ CATALYST TECHNICAL GROUP, INC. (CTG) this drawing and the work depicted herein are the sole property of CATALYST TECHNICAL GROUP, INC. No portion of this drawing may be copied without the express written consent of CTG, INC.

No.	DATE	Δ	REVISIONS	

PROJECT TITLE

COUDCT TITLE

EMPLE

10323 CLODINE RC

SEA

2



DATE: 11/15/2016

GENERAL NOTES:

TG Project Number:	15-026
nava Data:	4

issue Date.	August 5, 2016
Drawn By:	S.K
Checked By:	T.M
Scale:	N.T.S.

File Path:

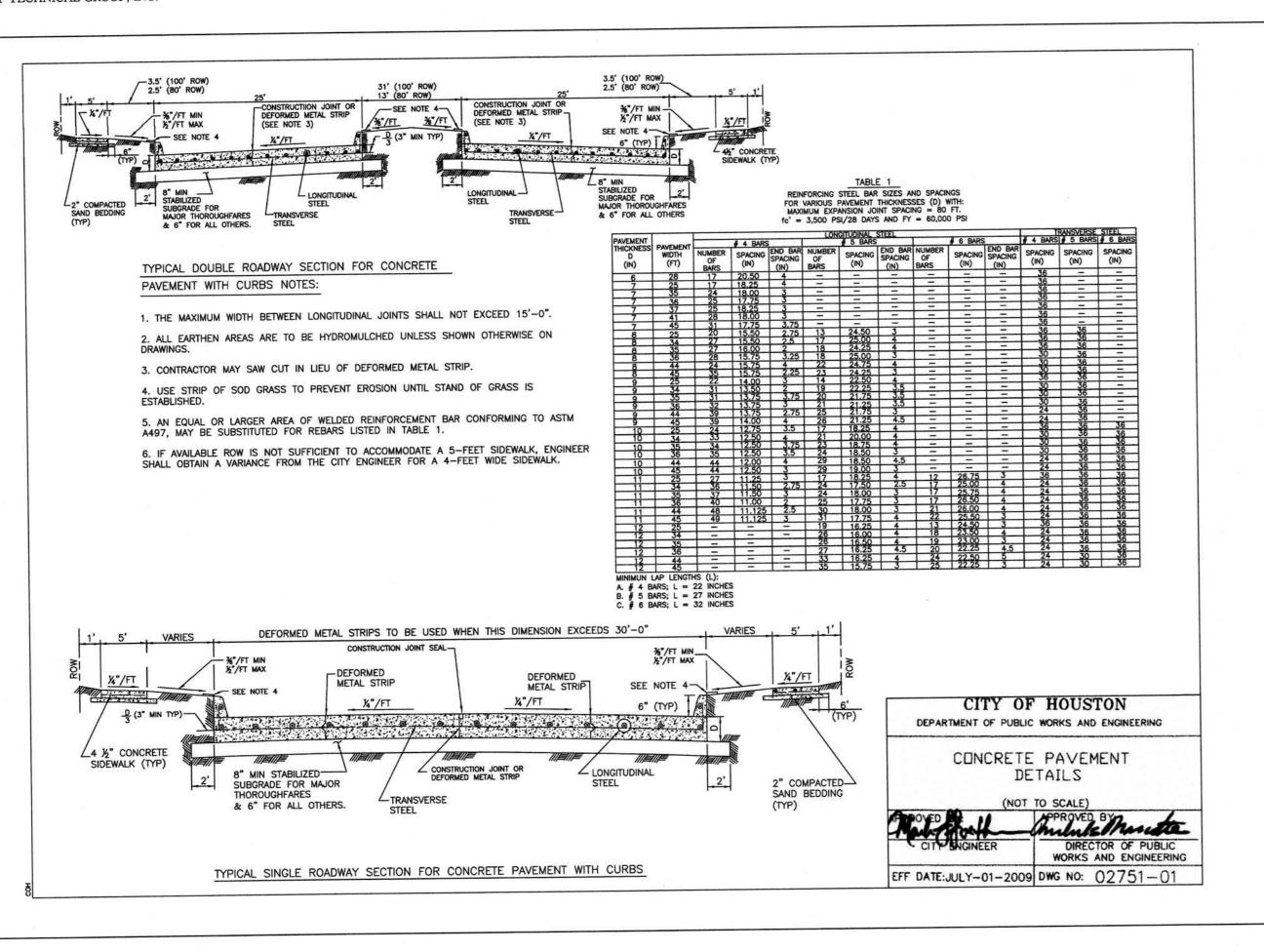
w:\dwg\2015 dwg\2015 commercial\15-026 10323 clodine\ctg\chil\revised 08-04-2016\xd-6 paring

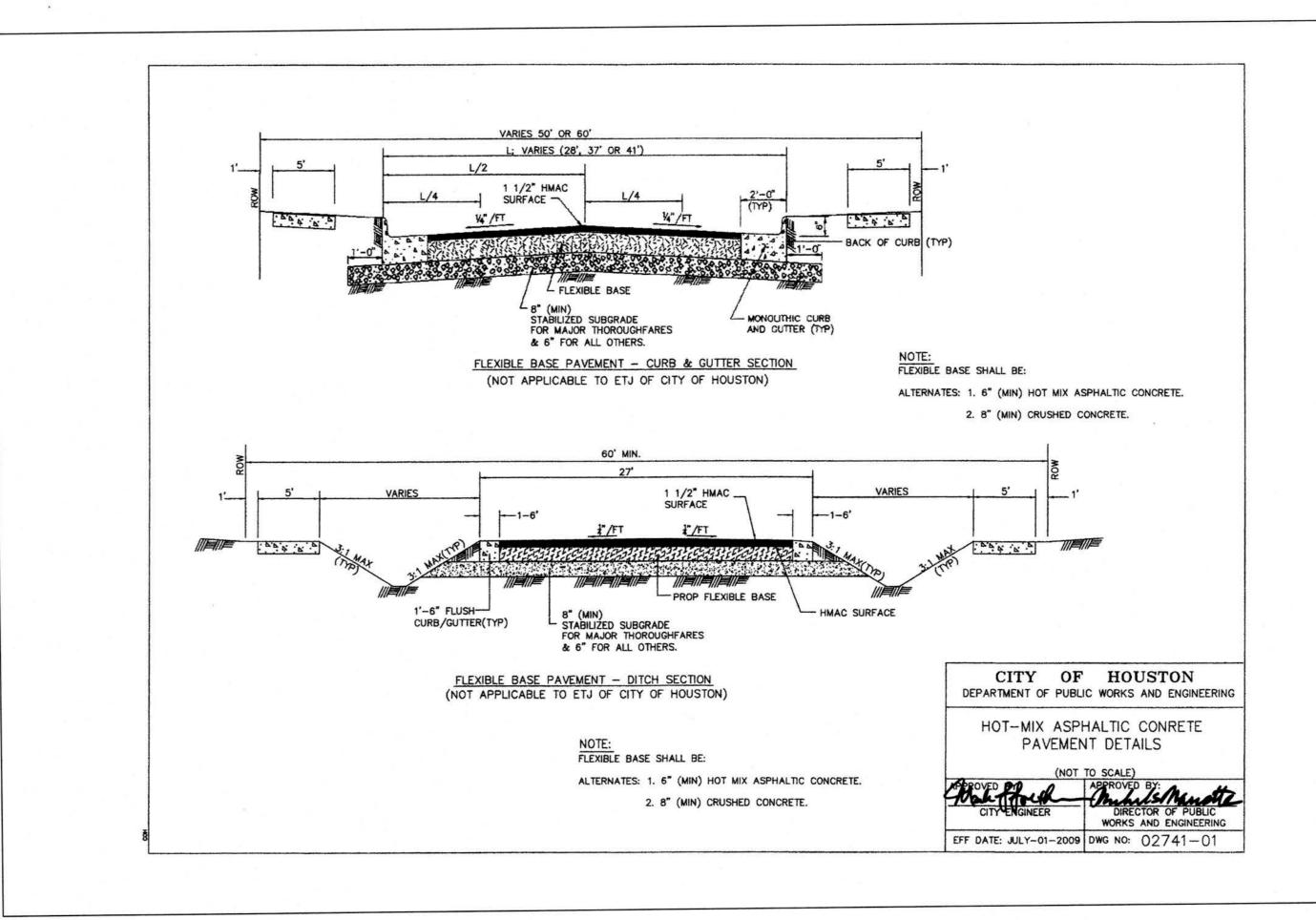
SHEET TITLE:

STANDARD PAVING DETAILS

SHEET NUMBER: 14 OF 15

SD-4





GENERAL NOTES FOR SIDEWALKS AND DRIVEWAYS

- 1. SAW CUT EXISTING CURB AT EACH END AND KNOCK OUT CURB FROM BEGINNING TO END OF PROPOSED DRIVEWAY.
- 2. SAW CUT EXISTING PAVEMENT A MINIMUM OF 18" INCHES AWAY FROM BACK OF CURB (GUTTER LINE) AND BREAK OUT TO EXPOSE EXISTING REINFORCEMENT STEEL.
- 3. COMPACT SUBGRADE FOR PROPOSED DRIVEWAY CONNECTION FROM PROPOSED SAW CUT AT EXISTING PAVEMENT TO RIGHT-OF-WAY LINE, COMPACT TO 95% OF STANDARD PROCTER DENSITY (+/- 2% OPT. MOISTURE). THE COUNTY ENGINEER RESERVES THE RIGHT TO REQUIRE LABORATORY TESTS TO BE CONDUCTED.
- 4. PLACE AND COMPACT 4" CLEAN BANK SAND.
- 5. MAINTAIN GUTTER LINE WITH FACE OF EXISTING CURB.
- 6. PROPOSED DRIVEWAY REINFORCING STEEL IS TO BE TIED TO EXISTING ROADWAY REINFORCING STEEL WITH A MINIMUM LAP OF 12 INCHES.
- PROPOSED DRIVEWAY REINFORCING STEEL IS TO BE #4 DEFORMED RE-INFORCING BARS (ASTM A615 GRADE 60, UNLESS NOTED) SPACED AT 24 INCHES C.C., EACH WAY, WITH 12 INCHES MINIMUM LAP (6" x 6" W6 x W6 AS ALTERNATE) FROM PROPOSED SAW CUT TO RIGHT-OF-WAY
- 8. PROPOSED DRIVEWAY, CURB, GUTTER LINE, AND GRADE SHALL MATCH EXISTING STREET.
- PROPOSED DRIVEWAY SHALL BE CONSTRUCTED WITH PORTLAND CEMENT CONCRETE, CLASS "A" STRUCTURAL (REFER TO SPECIFICATION 03301), 7 INCHES THICK, FROM PROPOSED SAW CUT TO RIGHT-OF-WAY LINE (PROPERTY LINE).
- 10. PROPOSED SIDEWALK SHALL BE CONSTRUCTED WITH PORTLAND CEMENT CONCRETE, CLASS "A" STRUCTURAL (REFER TO SPECIFICATION 03301), 4 INCHES THICK AND 4 FEET MINIMUM WIDTH. SEE DRAWING NO. FBC 24A FOR ADDITIONAL INFORMATION AND DETAILS.

CONSTRUCTION NOTES FOR	D
SIDEWALKS & DRIVEWAYS WITH	D
CURB TYPE STREETS	A
COMMERCIAL AREA	D.

DRAWN BY: L. BRDECKA | REVISED BY: L. BRDECK/)ATE DRAWN: 2-1-94

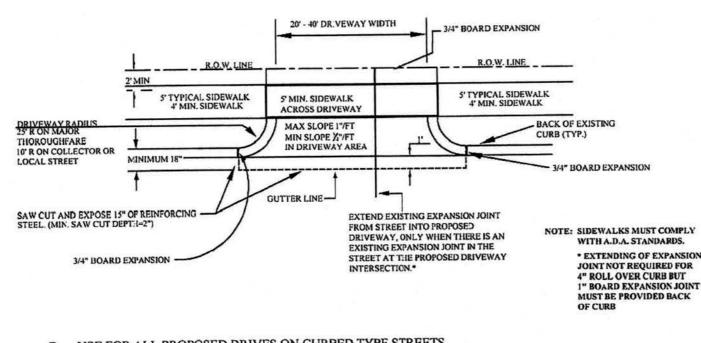
DATE REVISED: 3-10-05

APPROVED BY: L. HOOD DRAWING NO.

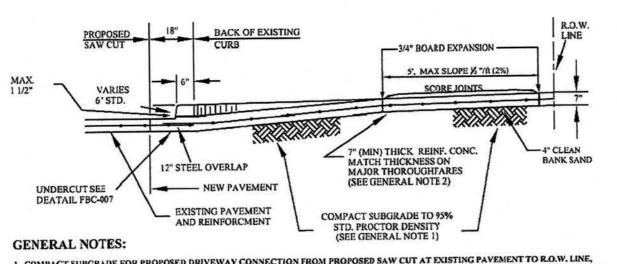
FORT BEND COUNTY ENGINEERING DEPARTMENT

WHEN A COMMERCIAL SIDEWALK, DRIVEWAY, CURB OR GUTTER IS CONSTRUCTED, RECONSTRUCTED, REPAIRED OR REGRADED ON COUNTY RIGHT-OF-WAY. FOR USE WITH CONCRETE OR ASPHALT CURB TYPE STREETS, USE SECTIONS APPLICABLE.

A. USE FOR ALL PROPOSED EXISTING CURB REMOVAL FOR DRIVEWAYS (PLAN VIEW NOT TO SCALE)



B. USE FOR ALL PROPOSED DRIVES ON CURBED TYPE STREETS



1. COMPACT SUBGRADE FOR PROPOSED DRIVEWAY CONNECTION FROM PROPOSED SAW CUT AT EXISTING PAVEMENT TO R.O.W. LINE, COMPACT TO 95% OF STANDARD PROCTOR DENSITY(+/- 2% OPT. MOISTURE). THE COUNTY ENGINEER RESERVES THE RIGHT TO REQUIRE

2. PROPOSED DRIVEWAY REINFORCING STEEL IS TO BE #4 DEFORMED REINFORCING BARS (ASTM A615, GRADE 60, UNLESS NOTED) SPACED AT 24" C.C., EACH WAY, WITH 12" MINIMUM LAP FROM PROPOSED SAW CUT TO R.O.W. LINE. 3. PROPOSED DRIVEWAY SHALL BE CONSTRUCTED WITH PORTLAND CEMENT (5 SACKS (3000 PSI) OF CEMENT PER CUBIC YARD OF CONCRETE), CLASS "A" STRUCTURAL (REFER TO SPECIFICTION 03301), 7" THICK, FROM PROPOSED SAW CUT TO R.O.W. LINE.

PROPOSED SIDEWALK SHALL BE CONSTRUCTED WITH PORTLAND CEMENT (5 SACKS (3000 PSI) OF CEMENT PER CUBIC YARD OF CONCRETE), CLASS "A" STRUCTURAL (REFER TO SPECIFICTION 03301), 4" THICK. 5. FOR TYPICAL SIDEWALK DEATAIL SEE FBC-011. DRAWN BY: L. BRDECKA

SIDEWALKS & DRIVEWAYS ON **CURB TYPE STREETS** COMMERCIAL AREA DATE: 2-1-94

REVISED BY: J. NETARDUS DATE REVISED: 4-7-09 DATE DRAWN: 2-1-94 DRAWING NO. APPROVED BY: L. HOOD FBC-025A

FORT BEND COUNTY ENGINEERING DEPARTMENT



Fort Bend County Engineering FORT BEND COUNTY, TEXAS

Richard W. Stolleis, P.E.

Fort Bend County **Construction - General Notes**

- Fort Bend County must be invited to the Pre-Construction Meeting.
- 2. Contractor shall notify Fort Bend County Engineering Department 48 hours prior to commencing construction and
- 48 hour notice to any construction activity within the limits of the paving at Construction@fortbendcountytx.gov. 3. Contractor is responsible for obtaining all permits required from Fort Bend County prior to commencing construction of any improvements within County road right of ways.
- 4. All Paving Improvements shall be constructed in accordance with Fort Bend County "Rules, Regulations and Requirements relating to the Approval and Acceptance of Improvements in Subdivisions as currently amended.
- 5. All road widths, curb radii and curb alignment shown indicates back of curb
- A continuous longitudinal reinforcing bar shall be used in the curbs.
- 7. All concrete pavement shall be 5 ½ sack cement with a minimum compressive strength of 3500 psi at 28 days. Transverse expansion joints shall be installed at each curb return and at a maximum spacing of 60 feet.
- 8. All weather access to all existing streets and driveways shall be maintained at all times.
- 9. 4"x 12" reinforced concrete curb shall be placed in front of single family lots only. All other areas shall be 6"
- 10. At all intersection locations, Type 7 ramps shall be place in accordance with TXDOT Ped-12a standard detail sheet. A.D.A. - Handicap Ramps shall be installed with street paving at all intersections and comply with current A.D.A.
- 11. Curb headers are required at curb connections to Handicap Ramps, with no construction joint within 5' of ramps.
- 12. All intersections utilizing Traffic Control measures shall have A.D.A. wheel chair ramps installed.
- 13. Guidelines are set forth in the Texas "Manual on Uniform Traffic Control Devices", as currently amended, shall be observed. The Contractor shall be responsible for providing adequate flagmen, signing, striping and warning devices, etc., during construction - both day and night.
- 14. All R1-1 stop signs shall be 30"x30" with diamond grade sheeting per Texas manual on uniform traffic control
- 15. Street name signage shall be on a 9" high sign flat blade w/reflective green background. Street names shall be upper and lowercase lettering with uppercase letters of 6" minimum and lowercase letters of 4.5" minimum. The letters shall be reflective white. Street name signs shall be mounted on stop sign post.
- 16. A Blue Double Reflectorized button shall be placed at all Fire Hydrant locations. The Button shall be placed 12 inches off of the centerline of the street on the same side as the hydrant.

NOTE: Fort Bend County notes supersede any conflicting notes.

Inspection. The Project and all parts thereof shall be subject to inspection from time to time by inspectors designated by Fort Bend County. No such inspections shall relieve the Contractor of any of its obligations hereunder. Neither failure to inspect nor failure to discover or reject any of the work as not in accordance with the drawings and specifications, requirements and specifications of Fort Bend County or any provision of this Project shall be construed to imply an acceptance of such work or to relieve the Contractor of any of its obligations

> 301 Jackson St., Suite 401, Richmond, TX 77469 Phone 281-633-7500

I:\Construction\Forms\FBC_Construction_General Notes_REVISED 2015-11-18.docx



Katy, TX 77494 Ph.:832-913-1888 info@texasctgroup.con B.P.E FIRM # 15775

440 Cobia Drive

CATALYST TECHNICAL GROUP, INC

herein are the sole property of CATALYST TECHNICAL GROUP, INC. No portion of this drawing may be copied without the express written consent of CTG, INC. DATE A REVISIONS

INC. (CTG) this drawing and the work depicted

PROJECT TITLE

田田



DATE: 07/27/2017

GENERAL NOTES:

CTG Project Number: 15-026 August 29, 201 Issue Date: Drawn By: S.K Checked By: T.M

N.T.S.

15 OF 15

File Path: \dwg\2015 dwg\2015 commercial\15-026 10323 clodine\ctg\civil\revised 08-04-2016\sd-7

SHEET TITLE:

Scale:

STANDARD DETAILS - PAVING

SHEET NUMBER:

