

CENTERLINE OF STORM DRAIN PIPE CURVE DATA:

CURVE	DELTA	RADIUS	LENGTH	TANGENT	CHORD	BEARING
C-1	29°40'18"	50.00	25.89	13.24	25.61	S 53°31'48" E
C-2	68°54'37"	130.00	156.35	89.20	147.10	S 33°54'38" E
C-3	45°00'00"	40.00	31.42	16.57	30.61	S 22°41'48" E
C-4	64°07'57"	40.00	44.77	26.08	42.47	S 57°44'14" W
C-5	62°34'07"	50.00	54.60	30.38	51.53	S 58°31'09" W
C-6	47°22'08"	50.00	41.34	21.93	40.17	S 62°22'42" E
C-7	62°49'42"	50.00	54.83	30.54	52.12	N 54°38'54" W
C-8	35°35'02"	100.00	62.11	32.09	61.11	S 13°21'40" W

DRAINAGE AREA CALCULATIONS:

Drainage Area #	AREA (acres)	C	I ₁₀₀ (inch/hour)	Q ₁₀₀ (cfs)	DRAINS TO OUT-FLOW #
1	0.24	0.8	10.6	2.20	OUT-FLOW #1
2	0.18	0.8	10.6	1.53	OUT-FLOW #1
3	0.42	0.8	10.6	3.56	OUT-FLOW #1
4	0.26	0.8	10.6	2.21	OUT-FLOW #1
5	1.10	0.8	10.6	9.33	OUT-FLOW #1
6	0.25	0.8	10.6	2.12	OUT-FLOW #1
7	0.21	0.8	10.6	1.78	OUT-FLOW #1
8	0.20	0.8	10.6	1.70	OUT-FLOW #1
9	0.22	0.8	10.6	1.87	OUT-FLOW #1
10	0.21	0.8	10.6	1.78	OUT-FLOW #1
11	0.32	0.8	10.6	2.71	OUT-FLOW #1
12	0.25	0.8	10.6	2.12	OUT-FLOW #1
13	0.23	0.8	10.6	1.95	OUT-FLOW #1
14	0.19	0.8	10.6	1.61	OUT-FLOW #1
15	0.41	0.8	10.6	3.48	OUT-FLOW #1
16	0.36	0.8	10.6	3.05	OUT-FLOW #1
17	0.59	0.8	10.6	5.00	OUT-FLOW #1
18	0.23	0.8	10.6	1.95	OUT-FLOW #2
19	0.20	0.8	10.6	1.70	OUT-FLOW #2
20	0.23	0.8	10.6	1.95	OUT-FLOW #3
TOTAL	6.32			53.60	

TOTAL $Q = 48.00 \text{ cfs}$
 $Q = 3.55 \text{ cfs}$

CONTRACTOR TO TAKE STEPS AS REQUIRED TO PROTECT EXISTING TREES AND ROOT SYSTEMS SHOWN ON THIS PLAN TO THE FULLEST EXTENT POSSIBLE. UNLESS TREES THAT ARE MARKED FOR REMOVAL MAINTAIN EXISTING GRADE AS CLOSE AS POSSIBLE UNDER DRIP LINE

- NOTES:**
- BEARING SYSTEM BASED ON THE FINAL PLAT OF THE MIDWAY SQUARE ADDITION VOL. 93252 PG. 3095.
 - LOTS # 64,65,66 AND 67 ARE COMMON AREAS
 - FACE OF GARAGE DOORS SHALL BE LOCATED A MINIMUM OF 17 FEET FROM THE EDGE OF STREET PAVEMENT
 - NO FENCES OR BUILDINGS SHALL BE ALLOWED WITHIN 10 FEET OF THE BACK OF CURB OR IN INDICATED VISIBILITY AREAS
 - SEE DETAIL SHEET FOR GENERAL NOTES, STANDARD DETAILS, EROSION CONTROL DETAILS & POLLUTION CONTROL NOTES.

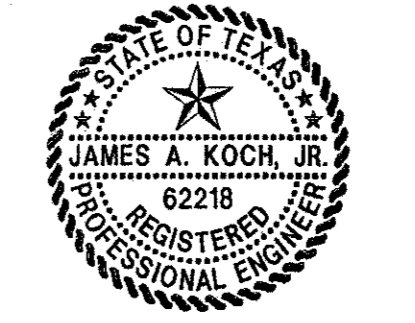
NOTE:
 ALL DIMENSIONS ARE FROM FACE OF CURB TO FACE OF CURB

- BENCHMARK LIST**
- "□" CUT ON TOP OF CURB IN FRONT OF FIRE HYDRANT ON NORTH SIDE OF BELTWAY DRIVE, 160± FEET EAST OF CENTERLINE OF LA GRANDE DRIVE. EL = 629.57
 - "□" CUT ON TOP OF CURB ON NORTH WEST CORNER OF PARKING LOT AT 14833 MIDWAY ROAD. EL = 630.53
 - "□" CUT ON TOP OF CURB OF SOUTHWEST CORNER OF PARKING LOT AT 14833 MIDWAY ROAD. EL = 628.75

RECORD DRAWING
 THIS DRAWING HAS BEEN REVISED TO REFLECT CONSTRUCTION RECORDS MAINTAINED AND PROVIDED BY THE CONTRACTOR FOR THIS PROJECT.
 CONTRACTOR: THE HUBBLE GROUP
 DATE REVISED: 11/10/99

- STA 0+00 LINE "ST-1" BEGIN 18" STORM DRAIN CONNECT TO EXISTING STORM MANHOLE KILL EXIST TO THE WEST
- STA 1+27.60 LINE "ST-1" INSTALL: 1-18" 22.5' BEND (RIGHT)
- STA 1+55.20 LINE "ST-1" INSTALL: 1-18" 45' BEND (RIGHT)
- STA 1+83.00 LINE "ST-1" END 18" STORM DRAIN CONSTRUCT STANDARD PARALLEL CONC HEADWALL W/FLOW REDUCER PLATE SEE FLOW REDUCER DETAIL
- STA 0+00 LINE "ST-2" BEGIN 24" STORM DRAIN CONNECT TO PROPOSED PARALLEL CONC HEADWALL SEE HEADWALL DETAIL "A"
- STA 0+45.00 LINE "ST-2" = STA 0+00 LINE "ST-5" END 48" STORM DRAIN CONSTRUCT STANDARD 6" DIA MANHOLE BEGIN 24" STORM DRAIN LINE "ST-3" (SOUTHEAST) BEGIN 30" STORM DRAIN LINE "ST-5" (SOUTHWEST) BEGIN 18" STORM DRAIN LINE "ST-9" (NORTHWEST)
- STA 1+03.60 LINE "ST-3" = STA 0+00 LINE "ST-4" INSTALL: 1-24" 45' WYE CONNECTION
- STA 1+07.60 LINE "ST-3" BEGIN 18" STORM DRAIN
- STA 2+09.90 LINE "ST-3" INSTALL: 1-18" 60" WYE CONNECTION 14 LF 18" STORM (LAT "ST-3A") 1-10" CURB INLET 12" RIGHT CL TC=631.50 G=631.00 FL=627.50
- STA 2+19.10 LINE "ST-3" INSTALL: 1-18" 60" WYE CONNECTION 14 LF 18" STORM (LAT "ST-3B") 1-10" CURB INLET 12" LEFT CL TC=631.50 G=631.00 FL=627.50
- STA 2+19.10 LINE "ST-3" INSTALL: 1-30"x18" 45' WYE CONNECTION
- STA 0+89.50 LINE "ST-5" INSTALL: 1-24"x18" 60" WYE CONNECTION 16 LF 18" STORM (LAT "ST-4A") 1-10" CURB INLET 12" LEFT CL TC=631.50 G=631.00 FL=627.50 (NON-STD DEPTH)
- STA 2+49.20 LINE "ST-4" INSTALL: 1-24"x18" 60" WYE CONNECTION 14 LF 18" STORM (LAT "ST-4B") 1-10" CURB INLET 12" LEFT CL TC=631.50 G=631.00 FL=627.50 (NON-STD DEPTH)
- STA 0+81.00 LINE "ST-5" = STA 0+00 LINE "ST-6" INSTALL: 1-30"x18" 45' WYE CONNECTION
- STA 0+85.10 LINE "ST-5" = STA 0+00 LINE "ST-6" INSTALL: 1-30"x18" 45' WYE CONNECTION 7 LF 18" STORM (LAT "ST-5A") 1-10" CURB INLET TC=631.50 G=631.00 FL=627.50
- STA 0+89.50 LINE "ST-5" INSTALL: 1-24"x18" 60" WYE CONNECTION 16 LF 18" STORM (LAT "ST-5B") 1-10" CURB INLET 12" RIGHT CL TC=631.50 G=631.00 FL=627.50
- STA 0+72.00 LINE "ST-6" = STA 0+00 LINE "ST-7" INSTALL: 1-NO.24 GRATE INLET W/1" WIDE CONC APRON TOP=631.00 FL=627.92
- STA 1+45.20 LINE "ST-5" = STA 0+00 LINE "ST-7" INSTALL: 1-24"x18" 45' WYE CONNECTION
- STA 1+55.40 LINE "ST-5" = STA 0+00 LINE "ST-7" INSTALL: 1-24"x18" 45' WYE CONNECTION 7 LF 18" STORM (LAT "ST-5A") 1-10" CURB INLET TC=631.50 G=631.00 FL=627.50
- STA 1+16.90 LINE "ST-7" INSTALL: 1-18" 60" WYE CONNECTION 17 LF 18" STORM (LAT "ST-7B") 1-10" CURB INLET 12" RIGHT CL TC=631.50 G=631.00 FL=628.00 (NON-STD DEPTH)
- STA 1+85.60 LINE "ST-5" = STA 0+00 LINE "ST-7" INSTALL: 1-10" CURB INLET BEGINS 18" STORM DRAIN @ BACK OF CURB INLET = STA 0+00 LINE "ST-8" TC=631.50 G=631.00 FL=627.50
- STA 1+26.91 LINE "ST-8" END 18" STORM DRAIN CONSTRUCT MORNING GLORY SEE VIEW "B-B" FOR DETAIL RIM ELEV=631.00 FL=628.25
- STA 1+05.90 LINE "ST-7" INSTALL: 1-18" 60" WYE CONNECTION 15 LF 18" STORM (LAT "ST-9B") 1-10" CURB INLET 12" LEFT CL TC=631.50 G=631.00 FL=627.50
- STA 1+83.00 LINE "ST-8" INSTALL: 1-18" 60" WYE CONNECTION 17 LF 18" STORM (LAT "ST-9C") 1-10" CURB INLET 12" RIGHT CL TC=631.50 G=631.00 FL=628.00 (NON-STD DEPTH)
- STA 1+97.00 LINE "ST-9" INSTALL: 1-18" 60" WYE CONNECTION 14 LF 18" STORM (LAT "ST-9D") 1-10" CURB INLET 12" RIGHT CL TC=631.50 G=631.00 FL=627.50
- STA 0+00 LINE "ST-10" CONSTRUCT STANDARD T/OOT CONC HEADWALL BEGIN 18" DRAIN PIPE
- STA 0+33.50 LINE "ST-10" INSTALL: 1-18" 60" WYE CONNECTION 27 LF 18" STORM (LAT "ST-10A") 1-10" CURB INLET TC=631.50 G=631.00 FL=627.50
- STA 0+62.00 LINE "ST-10" END 18" STORM DRAIN
- STA 0+51.70 LINE "ST-9" INSTALL: 1-18" 60" WYE CONNECTION 14 LF 18" STORM (LAT "ST-9A") 1-10" CURB INLET 12" RIGHT CL TC=631.50 G=631.00 FL=627.50
- STA 0+00 LINE "ST-11" BEGIN 18" STORM DRAIN CONNECT TO EXISTING STORM MANHOLE KILL EXIST TO THE WEST FL IN = 624.20
- STA 0+10.10 LINE "ST-11" 4' WEST OF PROPERTY LINE INSTALL: 1-24" 45' BEND (LEFT)
- STA 0+25.00 LINE "ST-11" = STA 0+00 LINE "ST-1A" INSTALL: 1-18" 60" WYE CONNECTION 1-NO.36 GRATE INLET W/1" WIDE CONC APRON (FOR EMERGENCY OVER-FLOW) TOP=630.50 FL=627.00
- STA 0+84.25 LINE "ST-11" INSTALL: 1-18" 60" WYE CONNECTION 17 LF 18" STORM (LAT "ST-11A") 1-10" CURB INLET TC=631.50 G=631.00 FL=629.00 (NON-STD DEPTH)

REVISED: FEBRUARY 2, 1997



THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW UNDER THE AUTHORITY OF JAMES A. KOCH, JR., P.E. 62218 ON 02/10/97. IT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.

PACHECO KOCH Consulting Engineers, Inc. 9401 LBJ Freeway, Suite 300 Dallas, Texas 75243
 Civil Engineering • Land Surveying (972) 235-3031

DRAINAGE PLAN
TOWNE LAKE ADDITION
THOMAS L. CHENOWETH SURVEY
ABSTRACT No. 273
TOWN OF ADDISON, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
JAK	BB	02/10/97	1"=40'			C-3.1

PK NO: 1664-96.112 DWG NO: 1664-07C