

COMP USA
F.F. 589.00

LOT 3C-1, BLK D

BLDG. D
F.F. 591.00

OCB
F.F. 591.00

BLDG. E
F.F. 591.00

BABY SUPERSTORE
F.F. 593.00

SPAGHETTI WAREHOUSE

LOT 1R, BLK A
PRINTemps ADDITION NO. 2

REF. SHEET C-8 FOR GENERAL
WATER & SANITARY SEWER NOTES

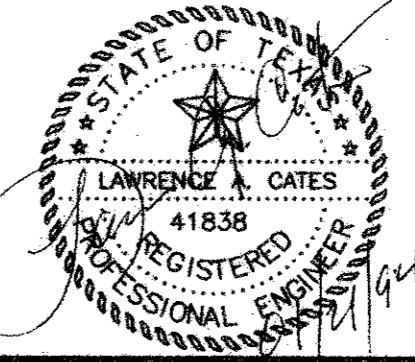
LOT 3R, BLK A
PRINTemps ADDITION NO. 2

COORDINATES

No.	NORTHING	EASTING	DESC.
100	4201.9643252	4867.2869986	S.S.
101	4261.5312865	5046.680458	S.S.
102	4285.7848411	5119.7207408	S.S.
103	4344.4225788	5178.5808519	S.S.
104	4390.0823921	5121.3280715	S.S.
105	4296.5866099	5046.4758157	S.S.
106	4583.6973401	5314.6302606	SSMH
107	4646.9757497	5386.8665079	SSMH
108	4645.4637600	5400.3165578	SSMH
109	4741.5637225	5510.0207528	S.S. PLUG
200	4162.9190023	4826.6766933	WATER
201	4222.1365408	5048.1203381	WATER
202	4391.3270865	5432.949035	WATER
203	4581.5971021	5650.1549729	WATER
204	4756.6101659	5496.8448447	WATER
205	4514.5847873	5220.9008537	WATER
206	4520.5101674	4896.2704888	WATER
207	4525.5826175	4872.8939475	WATER
300	4100.7506474	4810.9685289	BNDRY
301	4169.1457350	5066.7315662	BNDRY
302	4316.1029436	5400.9907324	BNDRY
303	4416.4254356	5515.5151079	BNDRY
309	4962.3441959	5236.2005881	BNDRY
310	5005.6441959	5121.5365981	BNDRY
311	4109.9709315	5156.9258259	BNDRY

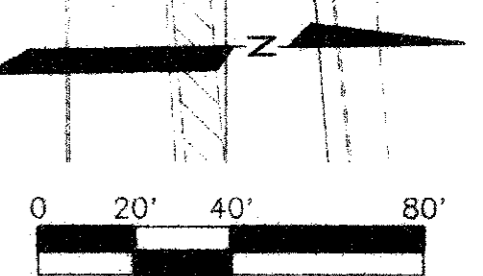
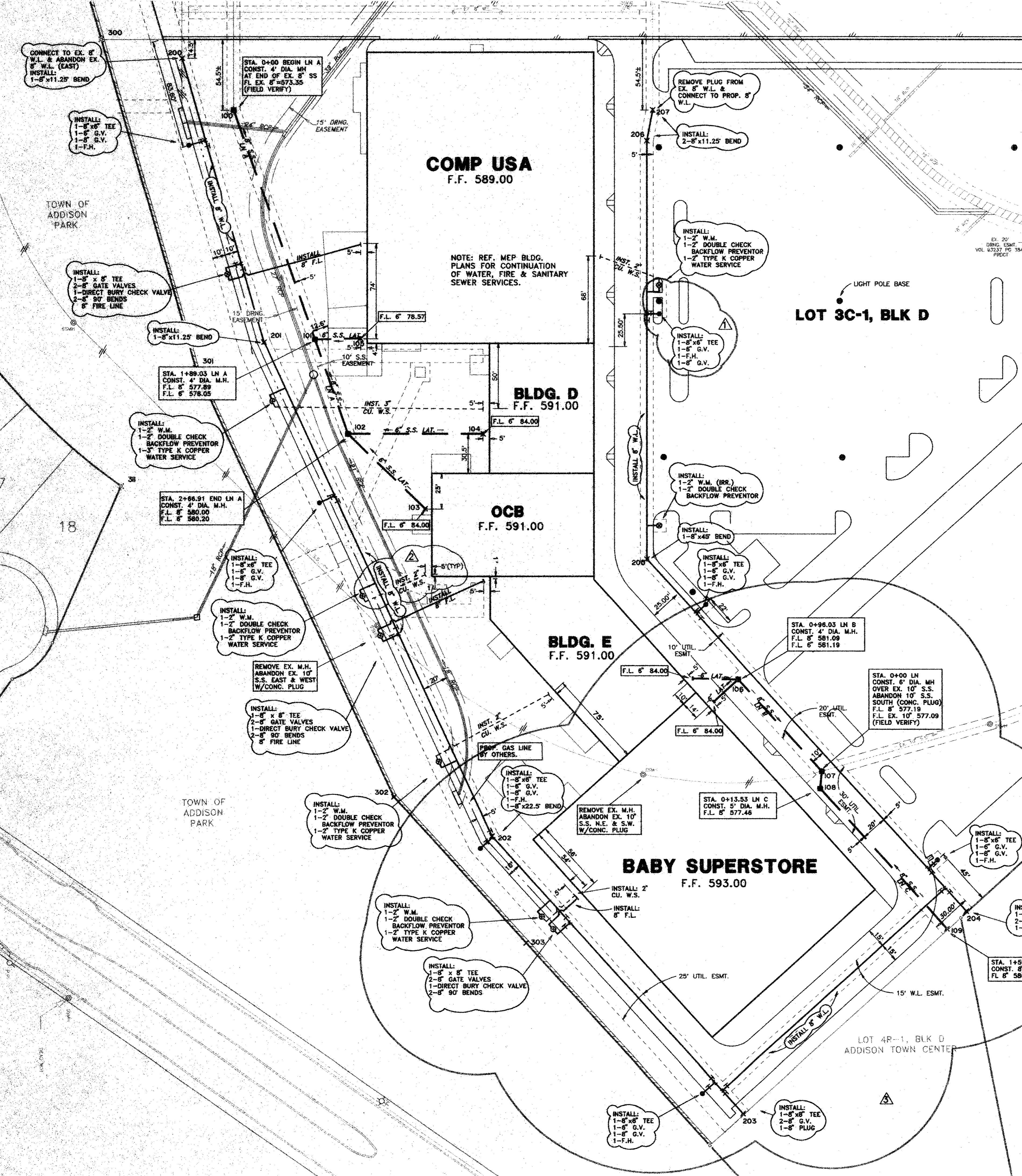
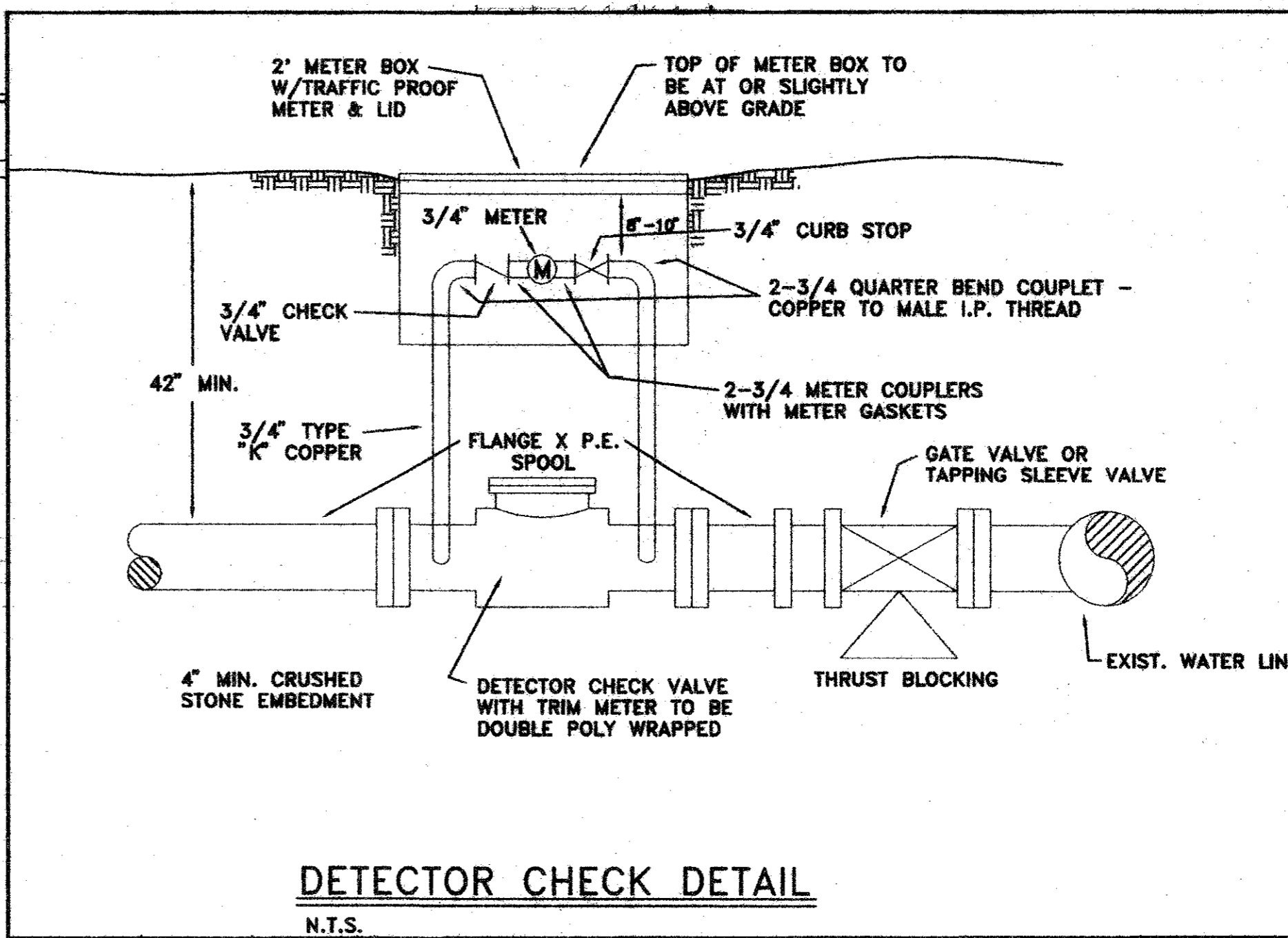
BENCHMARK:
"T" CUT ON STORM SEWER
INLET ON SOUTH SIDE OF
BELTLINE ROAD 70'± WEST
OF COMMERCIAL DRIVE.
ELEV. = 580.56

THE SEAL APPEARING ON THIS
DOCUMENT WAS AUTHORIZED BY
LAWRENCE A. CATES, P.E. 41838
ON 01/21/93



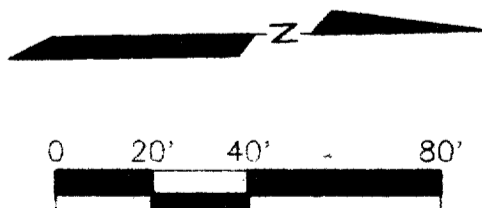
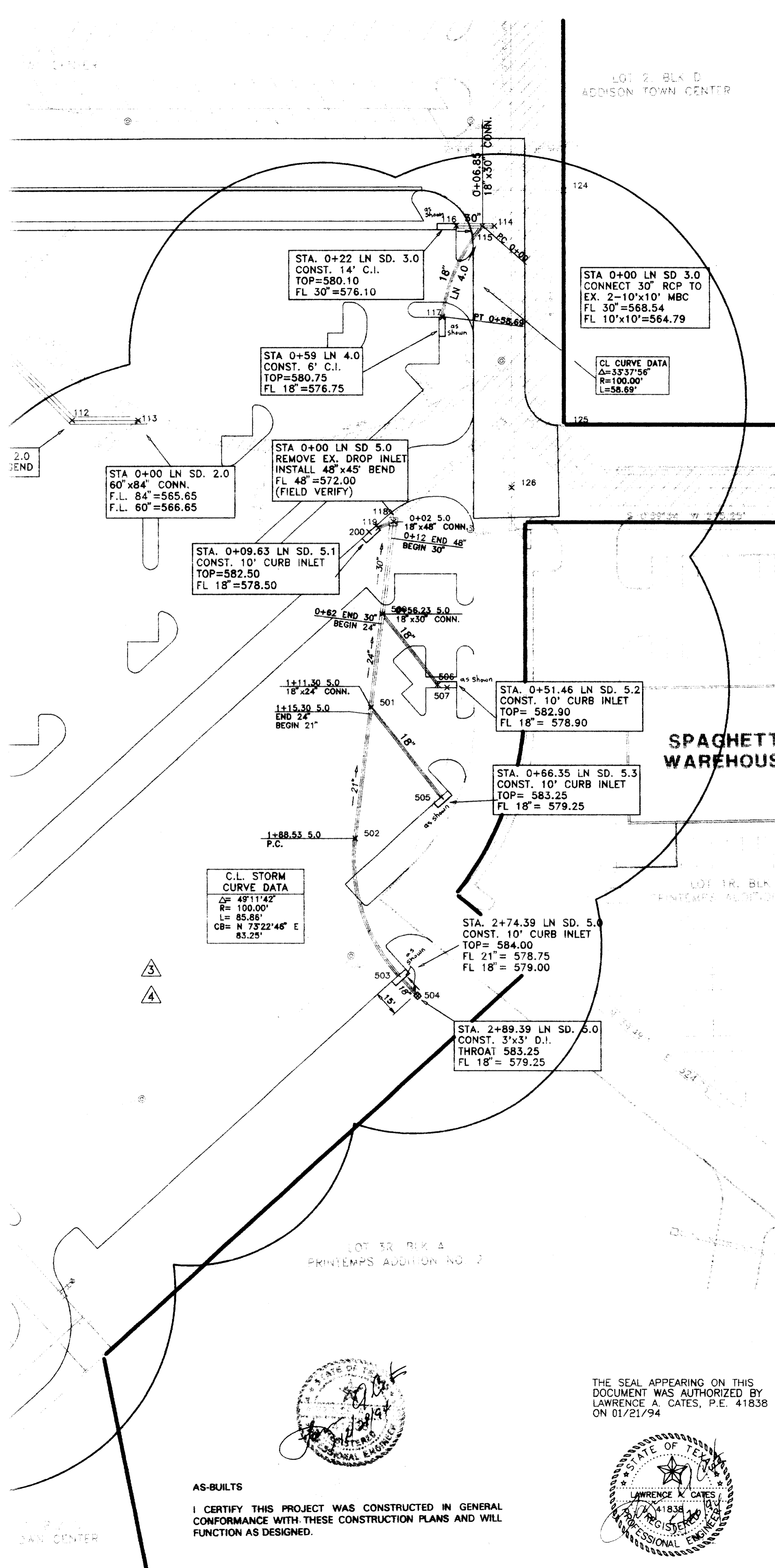
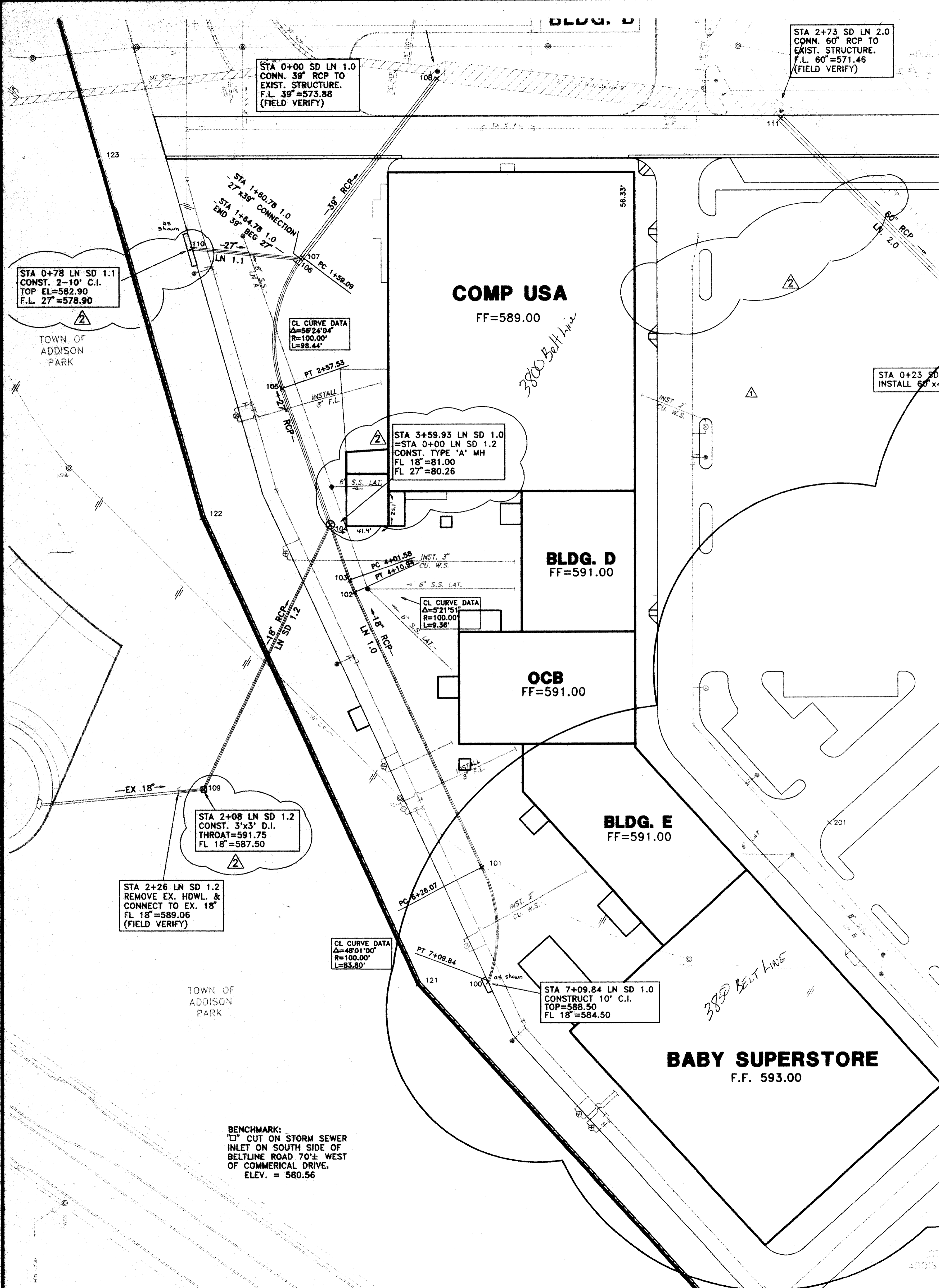
4	5/19/94	REV. M.H. LN C TO 5' DIA. ADD B.C.O.
3	5/12/94	ADDED BABY SUPERSTORE UTILITIES
2	2/28/94	RELOCATED WATER SERVICE ENTRANCE TO OCB
1	2/27/94	ADD DET. CHECK DETAIL, MOVE PH, SHOW GAS, UP SIZE MH @ 0+00 LN B
REV	DATE	REMARKS

WATER & SANITARY SEWER PLAN					
COMP USA					
ADDISON TOWN CENTER					
TOWN OF ADDISON, TEXAS					
LAWRENCE A. CATES & ASSOC. CONSULTING ENGINEERS DALLAS, TEXAS					
DESIGN	DRAWN	DATE	SCALE	FILE	NO.
LAC	LAC	1/21/94	1"=40'	D.P.	94044 8-WA-SEW.DWG
					C-5



DRAINAGE COORDINATES

PNT No.	NORTHING	EASTING	DESCRIPTION
100	4366.0687948	5400.3456811	PT
101	4363.0564909	5318.9544772	PC
102	4276.4689375	5122.0081438	PT
103	4273.1073569	5113.2740207	PC
104	4259.9825290	5073.7470685	STM. M.H.
105	4227.7136508	4976.5655726	PT
106	4242.8228387	4884.7811849	27x39 CONN.
107	4243.8524586	4583.4417104	PC
108	4341.8682716	4758.1340749	0+00 LN 1.0
109	4166.6607530	5259.8517001	3'x3' D.I.
110	4165.7294536	4875.8952958	2-10' C.I.
111	4585.4751419	4791.4148702	2+73 LN 2.0
112	4744.2553698	4955.7951383	60x45' BEND
113	4782.8376473	4956.4637296	0+00 LN 2.0
114	4892.6828556	4847.2619963	0+00 LN 3.0
115	4985.8292030	4847.1292386	0+00 LN 4.0
116	4970.4342920	4846.8310335	14' C.I. (LN 3.0)
117	4961.4813332	4899.8948656	6' C.I. (LN 4.0)
118	4930.6915804	5018.5467943	C.L. EX. D.I.
119	4921.7143483	5022.0354277	8' C.I. (LN 5.0)
121	4316.1029436	5400.9907324	BNDRY PNT
122	4169.1457350	5066.7315662	BNDRY PNT
123	4100.7506474	4810.9685289	BNDRY PNT
124	5033.5014349	4827.1316919	BNDRY PNT
125	5031.1376734	4963.5397862	BNDRY PNT
126	4999.9989234	5000.0007670	BNDRY PNT
200	4916.4240891	5024.3431665	C.L. INLET
201	4610.6089602	5292.2349205	CURB RETURN
500	4923.2089298	5071.9445965	RCP
501	4915.5664712	5126.4828233	RCP
502	4904.8489465	5202.9653831	RCP
503	4928.6606881	5282.7355572	C.L. INLET
504	4939.5329890	5295.1469662	CENTER D.I.
505	4956.8206460	5179.4594151	C.L. INLET
506	4954.7706177	5113.7933061	RCP
507	4960.2394715	5115.6383352	C.L. INLET



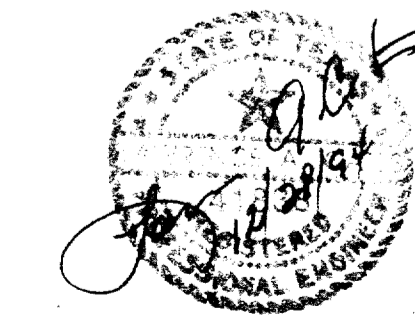
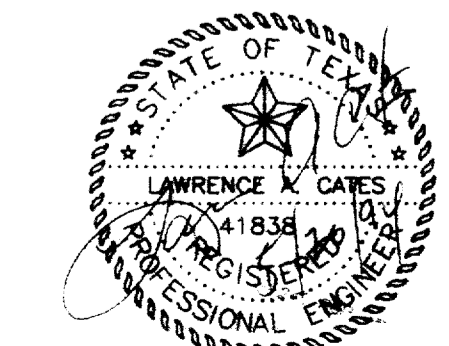
As Built Ties Dec 19, 1999

5/12/94	ADDED BABY STORE
5/02/94	ADDED DRAINAGE COORDINATES
2/07/94	REMOVE ROOF DRAIN SYSTEM DEL 21" & 24" ADD 18" & 27"
1/28/94	REV. THRT ELEV OF DROP INLET, ADD TYPE A MH, UP SIZE 12" CI TO 20" CI
1/28/94	ADDED 8" DRAIN TO CANOPY
1/28/94	ADDED 8" DRAIN TO CANOPY

DRAINAGE PLAN

COMP USA						
ADDISON TOWN CENTER						
TOWN OF ADDISON, TEXAS						
LAWRENCE A. CATES & ASSOC. CONSULTING ENGINEERS DALLAS, TEXAS						
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LAC	LAC		1"=40'	D.P.	94044 B-DRAIN.DWG	C-7

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY LAWRENCE A. CATES, P.E. 41838 ON 01/21/94



AS-BUILTS
I CERTIFY THIS PROJECT WAS CONSTRUCTED IN GENERAL CONFORMANCE WITH THESE CONSTRUCTION PLANS AND WILL FUNCTION AS DESIGNED.

C:\DWGSET\94044\B-DRAIN.DWG, Wed May 18 12:40:29 1994

SANITARY SEWER GENERAL NOTES

- ALL WORK, UNLESS OTHERWISE NOTED, SHALL CONFORM TO THE TOWN OF ADDISON STANDARD SPECIFICATIONS.
- THE HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING SUBSURFACE UTILITIES HAVE BEEN DETERMINED FROM DATA RECORDED BY OTHERS. CONTRACTOR SHALL VERIFY THAT NECESSARY CROSSING CLEARANCES BETWEEN EXISTING AND PROPOSED UTILITIES EXIST PRIOR TO CONSTRUCTION OF ANY SUCH CROSSING.
- CONTRACTOR SHALL COORDINATE WITH THE OWNER, ENGINEER OR HIS REPRESENTATIVE AND TOWN REPRESENTATIVE REGARDING ANY DEVIATIONS FROM THESE PLANS.
- CONTRACTOR SHALL MAINTAIN ONE SET OF RECORD DRAWINGS (AS BUILT) ON SITE WHICH WILL BE SUBMITTED TO THE ENGINEER UPON COMPLETION OF THIS PROJECT. THE LOCATION OF FINAL SEWER SERVICE LOCATIONS WILL BE SHOWN.
- IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL PUBLIC UTILITIES IN THE CONSTRUCTION OF THIS PROJECT; ALL MANHOLES, CLEANOUTS, VALVE BOXES, FIRE HYDRANTS, SEWER LATERALS, WATER SERVICE, ETC.
- THE CONTRACTOR SHALL SET UTILITIES TO PROPER LINE AND GRADE PRIOR TO THE PLACING OF PERMANENT PAVEMENT.
- SANITARY SEWER PIPE SHALL CONFORM TO TOWN SPECIFICATIONS AND SHALL BE MANUFACTURED FROM ONE OF THE FOLLOWING MATERIALS:

a. Polyvinyl/Chloride (PVC)	Diameter
ASTM D 3034 SDR 35	4" - 15"
(SEE NOTE 13)	
- SANITARY SEWER PIPE MUST BE KEPT CLEAR OF BROKEN CONCRETE, DIRT OR ANY OTHER DEBRIS RESULTING FROM CONSTRUCTION OPERATIONS.
- ALL SANITARY SEWER MAINS ARE TO HAVE 1-21" JOINT CENTERED ON EITHER SIDE OF WATER MAINS WHERE CROSSING OCCUR.
- CONTRACTOR SHALL TIE A 1" WIDE PIECE OF RED PLASTIC FLAGGING TO THE END OF SEWER SERVICE AND SHALL LEAVE A MINIMUM OF 36" OF FLAGGING EXPOSED AFTER BACKFILL AFTER CURB AND PAVING IS COMPLETED. CONTRACTOR SHALL MARK THE LOCATION OF THE SEWER SERVICE ON THE CURB IN ACCORDANCE WITH THE STANDARD TOWN SPECIFICATIONS.
- THE CONTRACTOR SHALL FURNISH A MAINTENANCE BOND TO THE TOWN TO RUN 1 YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE SYSTEM BY THE TOWN OF ADDISON.
- ALL SANITARY SEWER LATERALS SHALL BE SIZED AND LOCATED AS SHOWN.
- ALL SANITARY SEWER LINES IN EXCESS OF 10 FEET DEPTH WILL BE SDR 26.
- ALL MANHOLES WILL BE INSTALLED WITH INSERTS.

WATER LINE GENERAL NOTES

- ALL WORK AND MATERIALS, UNLESS OTHERWISE NOTED, SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR TOWN OF ADDISON.
- BASE BID - ALL 6", 8", 10" AND 12" WATER MAINS SHALL BE PVC AWWA C900, DR 18, CLASS 150 WATER PIPE. FOR PVC SERVICE TAPPING SADDLES SHALL BE USED.
- ALL WATER MAINS SHALL HAVE MINIMUM COVER AS FOLLOWS: 6", 8", 10", AND 12"-48" BELOW FINISHED PAVEMENT GRADE, OR 60" BELOW EXISTING OR FINISHED GRADE IN UNPAVED AREAS, OR AS REQUIRED TO CLEAR OTHER UTILITIES.
- EXTEND WATER DEADHEADS AND SANITARY SEWER LATERALS BEYOND PROPOSED CURB AS SHOWN ON THE WATER PLAN.
- FIRE HYDRANTS TO BE TOWN OF ADDISON APPROVED (MUELLER CENTURION)
- VALVES TO BE TOWN OF ADDISON APPROVED.
- THE WATER METER BOX SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR AFTER THE PAVING CONTRACTOR HAS COMPLETED THE FINE GRADING BEHIND THE BACK OF THE CURB. EACH SERVICE LOCATION WILL BE MARKED ON THE PAVEMENT OR CURB, WITH A BLUE DOT BY THE UTILITY CONTRACTOR AND TIED TO PROPERTY CORNERS ON THE "RECORD DRAWINGS."
- THE CONTRACTOR SHALL FURNISH A MAINTENANCE BOND TO THE TOWN TO RUN ONE (1) YEAR FROM THE DATE OF ACCEPTANCE OF THE SYSTEM BY THE TOWN.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING "RECORD DRAWING" PLANS TO THE ENGINEER SHOWING THE LOCATION OF WATER SERVICES AND VALVES.
- FIRE HYDRANTS SHALL BE PAINTED AS PER TOWN OF ADDISON STANDARDS AND SPECIFICATIONS AND LOCATED IN A PROTECTED AREA WITH 6" CURB OR BOLLARDS.
- STEAMER NOZZLES ON FIRE HYDRANTS SHALL BE 18" ABOVE THE TOP OF THE CURB ON FINISHED GRADE, AND SHALL FACE THE CENTER OF THE FIRE LANE OR STREET. FIRE HYDRANTS SHALL USUALLY BE LOCATED FOUR (4) FEET, BUT NOT LESS THAN TWO (2) FEET NOR MORE THAN SIX (6) FEET, BEHIND THE CURB.
- ALL WATER LINES SHALL BE HYDROSTATICALLY TESTED PER TOWN OF ADDISON STANDARDS AND SPECIFICATIONS.
- ALL WATER LINES SHALL BE STERILIZED PER TOWN OF ADDISON STANDARDS AND SPECIFICATIONS.
- ALL METER BOXES SHALL BE LOCATED IN NON-TRAFFIC AREAS AND PROTECTED BY 6" CURB OR BOLLARDS.
- THE HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING SUBSURFACE UTILITIES HAVE BEEN DETERMINED FROM RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY THAT NECESSARY CLEARANCES BETWEEN EXISTING AND PROPOSED UTILITIES EXIST PRIOR TO THE CONSTRUCTION OF ANY SUCH CROSSING. IT IS THE CONTRACTORS RESPONSIBILITY TO INVESTIGATE AS TO WHETHER ADDITIONAL FACILITIES EXIST.
- UTILITY TRENCHES SHALL BE BACKFILLED WITH MATERIAL PER TOWN OF ADDISON SPECIFICATIONS (95% STANDARD PROCTOR DENSITY).
- ANCHOR FITTINGS SHALL BE USED TO ATTACH FIRE HYDRANTS.
- ALL MANHOLES, CLEANOUTS, VALVE BOXES, FIRE HYDRANTS, ETC., MUST BE ADJUSTED TO PROPER LINE AND GRADE BY CONTRACTOR AFTER PLACEMENT OR PERMANENT PAVING.
- A NO. 12 PLASTIC COATED WIRE SHALL BE PLACED IN THE TRENCH OVER ALL WATER LINES. THE WIRE SHALL BE TIED TO ALL VALVES AND FIRE HYDRANTS AND ATTACHED DIRECTLY TO THE TOP OF PIPE AND EXTENDED TO SIX INCHES ABOVE FINISHED GRADE ALONG THE OUTSIDE OF ALL VALVE STACKS AND FIRE HYDRANTS.
- ALL LOCATION DIMENSIONS SHOWN ARE CENTERLINE OF PIPE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR TRENCH SAFETY DESIGN AND DETAILS AS REQUIRED, AND SHALL SUBMIT ENGINEERED DESIGN.

PAVING GENERAL NOTES

- CONCRETE PAVING FOR TRUCK DOCKS, DUMPSTERS AND CURB & GUTTERS SHALL BE OF THE THICKNESS SHOWN ON THE PLAN AND BE 3,000 PSI CONCRETE AT 28 DAYS WITH A MIXTURE THAT IS MINIMUM OF 5.5 SACKS PER CUBIC YARD AND HAVING A ONE INCH TO FOUR INCH SLUMP AND REINFORCED WITH #3 BARS @ 18" O.C.E.W. REINFORCING SHALL BE SUPPORTED BY CHAIRS AND SPACED AT 16 S.F. MAXIMUM INTERVAL.
- SUBGRADE FOR CONCRETE PAVEMENT SHALL BE SCARIFIED TO A DEPTH OF SIX INCHES (6") AND RECOMPACTED TO 95% STANDARD PROCTOR DENSITY AT 3% ABOVE OPTIMUM MOISTURE CONTENT.
- CONCRETE TO BE FLOAT FINISHED AND CURED FOR A MINIMUM OF 72 HOURS.
- SEALANT MATERIAL TO BE 0A55 ASPHALT OR A RUBBER BASED COMPOUND. SPECIFICATIONS TO BE SUBMITTED TO THE ENGINEER PRIOR TO INSTALLATION.
- HOT MIX ASPHALT CONCRETE (HMAC) SHALL BE TEXAS DEPARTMENT OF TRANSPORTATION (TXDOT) ITEM 340, TYPE "C" OR TYPE "A" AS SHOWN.
- SUBGRADE FOR HMAC ALTERNATE WILL BE 6" LIME STABILIZED WITH 7% LIME (3.5 LBS PER S.Y.) COMPACTED TO 100% THD 114E OVER SCARIFIED AND RECOMPACTED SUBGRADE.
- BREAKOUTS FOR REMOVAL OF EXISTING PAVEMENT AND CURBS SHALL BE MADE BY SAW CUT WHEN ADJACENT TO PROPOSED PAVING AND/OR CURBS.
- PROPOSED CONCRETE CURBS SHALL MATCH ELEVATION OF EXISTING CURB.
- FIRE LANES SHALL BE MARKED BY SIX INCH (6") WIDE LINES USING RED TRAFFIC PAINT, WITH WORDING "NO PARKING" AND "FIRE LANE" PAINTED ON THE LINES AT INTERVALS OF TWENTY-FIVE FEET (25'). THE LETTERING WILL BE FOUR INCHES (4") HIGH WITH A ONE INCH (1") WIDE STROKE PAINTED WITH WHITE TRAFFIC PAINT.
- ALL PARKING SPACES SHOWN ON PROPOSED CONSTRUCTION SHALL BE MARKED WITH 4 INCH (4") WIDE YELLOW PAINTED PAVEMENT STRIPING. PAINT SHALL BE SHERWIN WILLIAMS SERIES B-29Y2 OR APPROVED ALTERNATE.
- CONTRACTOR SHALL FURNISH ALL PAVEMENT MARKINGS FOR FIRE LANES, PARKING STALLS, HANDICAPPED PARKING SYMBOLS AND MISC. STRIPING WITHIN PARKING LOT AND AROUND BUILDING AS SHOWN ON THE PLANS. SEE ARCHITECTURAL SITE PLAN FOR VERTICAL HANDICAP SIGNAGE.
- ALL HANDICAP RAMPING, STRIPING AND PAVEMENT MARKINGS SHALL CONFORM TO THE AMERICANS WITH DISABILITIES ACT OF 1990.
- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH TOWN OF ADDISON STANDARD SPECIFICATIONS AND/OR SPECIFICATIONS ESTABLISHED BY THIS PROJECT. THE MOST STRINGENT SHALL APPLY.
- CONTROL JOINTS FOR CONCRETE PAVMT. WILL BE PLACED AT 15' O.C.E.W. LEVEL UP SAND COURSE UNDER CONC. PAVMT IS NOT ALLOWED.
- CONTRACTOR WILL PROVIDE A TWO (2) YEAR UNCONDITIONAL MAINTENANCE FREE WARRANTY ON PORTLAND CEMENT CONCRETE PAVEMENT AND HOT MIX ASPHALT CONCRETE PAVEMENT.
- ALL CITY FACILITIES (TURN LANES, APPROACHES, STRUCTURES & SIDEWALKS) TO BE 3,600 P.S.I. CONC. @ 28 DAYS.

PROJECT GENERAL NOTES

- ALL DIMENSIONS ARE FACE OF CURB TO FACE OF CURB UNLESS NOTED OTHERWISE.
- ALL CURBS ARE EITHER 6" INTEGRAL WITH CONCRETE PAVEMENT OR 6" MONOLITHIC WITH ASPHALT PAVEMENT.
- REFERENCE ARCHITECTURAL SITE PLAN OF LAYOUT FOR HANDICAP PARKING AND SIGNAGE.
- PRIOR TO FINAL ACCEPTANCE BY THE TOWN OF ADDISON:
 - A TEXAS REGISTERED PROFESSIONAL ENGINEER SHALL CERTIFY THAT THE PORTION OF THE PROJECT BEING DEDICATED TO ADDISON WAS CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS APPROVED BY THE TOWN OF ADDISON.
 - A ONE (1) YEAR MAINTENANCE BOND IS REQUIRED FOR THE CITY'S PORTION OF THE INFRASTRUCTURE.
 - CONTRACTOR SHALL DEMONSTRATE THAT THE WATER AND SANITARY SEWER SYSTEMS MEET THE PROPER PRESSURE, BACTERIA AND MANDREL TESTS. IN ADDITION, THE OWNER SHALL PROVIDE A VHS FORMAT VIDEO TAPE OF THE SANITARY SEWER.
- PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANIES TO LOCATE EXISTING FACILITIES. THESE INCLUDE BUT MAY NOT BE LIMITED TO THE FOLLOWING:
 - TOWN OF ADDISON
 - LONE STAR GAS
 - SOUTHWESTERN BELL
 - STORER CABLE
 - PLANNED CABLE SYSTEMS
 - TU ELECTRIC
- PRIOR TO BEGINNING CONSTRUCTION, THE OWNER OR HIS AUTHORIZED REPRESENTATIVE SHALL CONVENE A PRE-CONSTRUCTION CONFERENCE BETWEEN THE TOWN OF ADDISON, CONSULTING ENGINEER, CONTRACTOR(S), UTILITY COMPANIES AND ANY OTHER AFFECTED PARTIES. NOTIFY BRUCE ELLIS AT 450-2847 AT LEAST 48 HOURS PRIOR TO THE TIME OF THE CONFERENCE AND 48 HOURS PRIOR TO BEGINNING OF CONSTRUCTION.
- ANY EXISTING PAVEMENT, CURB(S) AND/OR SIDEWALKS DAMAGED OR REMOVED WILL BE REPAIRED BY THE CONTRACTOR AT THEIR EXPENSE.
- LOT PINS SHALL BE IN PLACE DURING CONSTRUCTION AND PRIOR TO FINAL ACCEPTANCE. CONCRETE MONUMENTS SHALL BE PLACED ON ALL BOUNDARY CORNERS, BLOCK CORNERS, CURVE POINTS AND ANGLE POINTS IN PUBLIC RIGHT-OF-WAY. CONCRETE MONUMENTS SHALL BE SIX (6) INCHES IN DIAMETER AND TWENTY-FOUR (24) INCHES LONG. A COPPER PIN ONE-FOURTH INCH IN DIAMETER EMBEDDED AT LEAST THREE (3) INCHES IN THE MONUMENT AT THE EXACT INTERSECTION POINT OF THE MONUMENT. THE MONUMENTS SHALL BE SET AT SUCH AN ELEVATION THAT AFTER CONSTRUCTION, THE TOP OF THE MONUMENT WILL NOT BE LESS THAN TWELVE (12) INCHES BELOW THE GROUND SURFACE.
- CONTRACTOR SHALL OBTAIN A RIGHT-OF-WAY PERMIT BY THE TOWN OF ADDISON FOR WORKING WITHIN THE PUBLIC RIGHT-OF-WAY EASEMENTS.
- DURING CONSTRUCTION, THE OWNER SHALL PROVIDE A QUALIFIED GEOTECHNICAL LAB TO PERFORM MATERIALS TESTING DURING THE CONSTRUCTION, AT THE REQUEST OF THE TOWN OF ADDISON.
- THE CONTRACTOR SHALL SUBMIT MATERIAL SHEETS TO THE TOWN OF ADDISON FOR APPROVAL PRIOR TO INCORPORATING MATERIALS INTO THE JOB.

AS-BUILTS

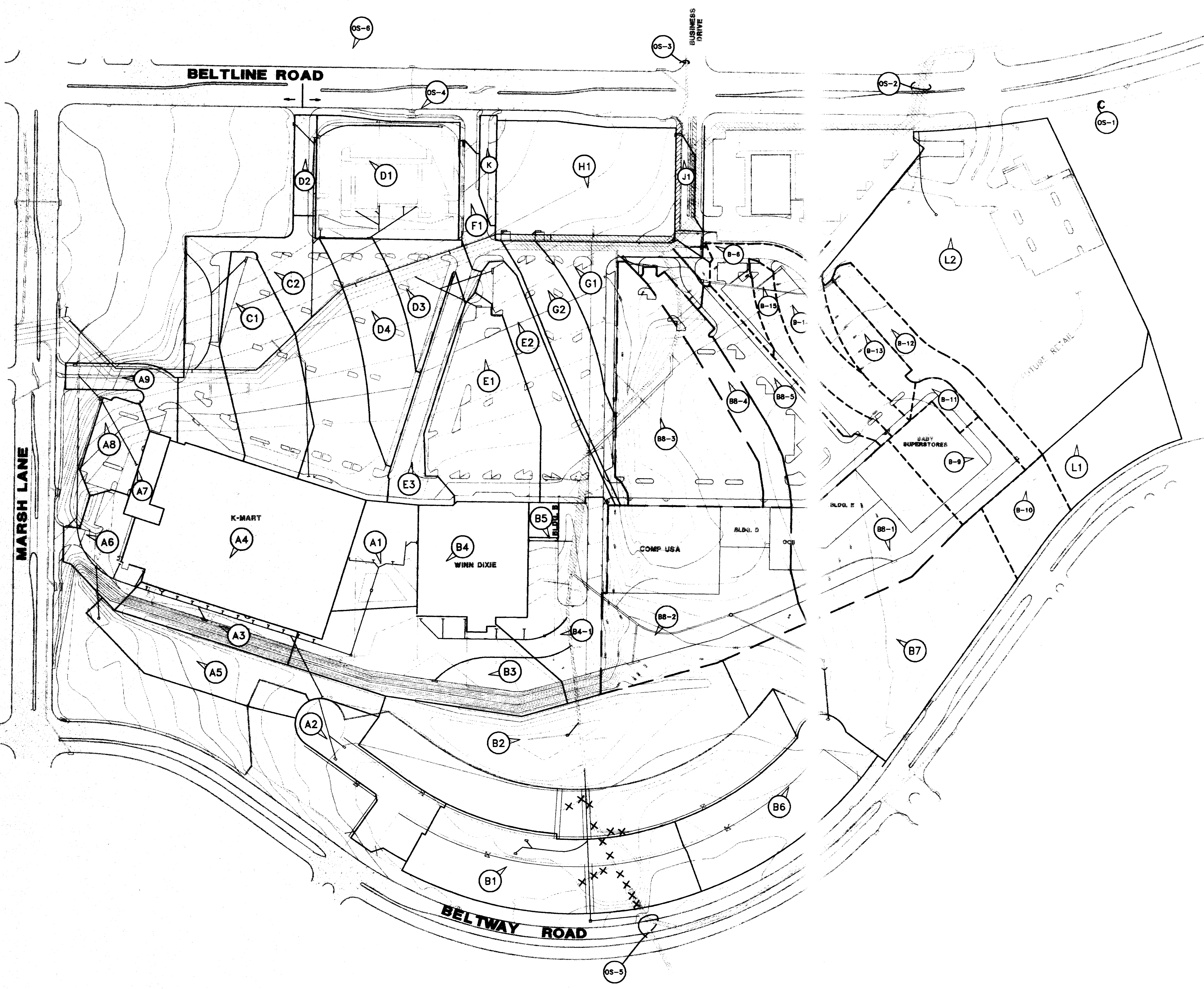
I CERTIFY THIS PROJECT WAS CONSTRUCTED IN GENERAL CONFORMANCE WITH THESE CONSTRUCTION PLANS AND WILL FUNCTION AS DESIGNED.

Handwritten signature and date: 12/2/94

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY LAWRENCE A. CATES, P.E. 41838 ON 01/21/94

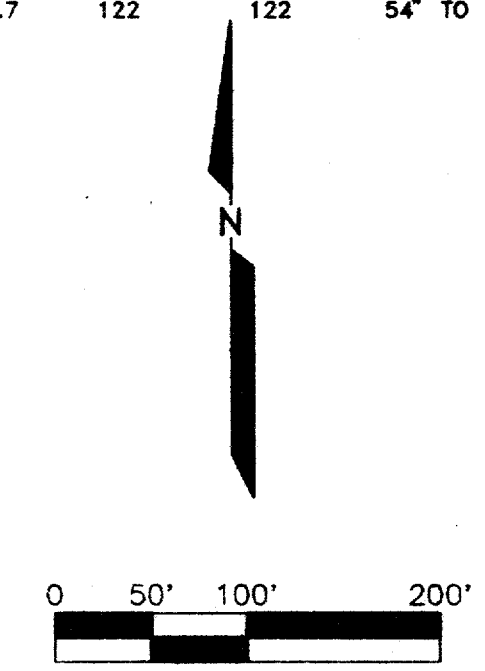


REV.	DATE	REMARKS				
GENERAL NOTES						
COMP USA						
ADDISON TOWN CENTER						
TOWN OF ADDISON, TEXAS						
LAWRENCE A. CATES & ASSOC.		CONSULTING ENGINEERS DALLAS, TEXAS				
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LAC	LAC	1/21/94	1"=1'	D.P.	93059 GENOTES.DWG	C-8

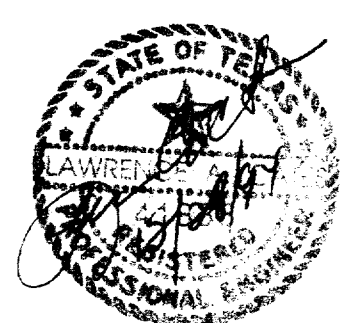


DRAINAGE SUMMARY

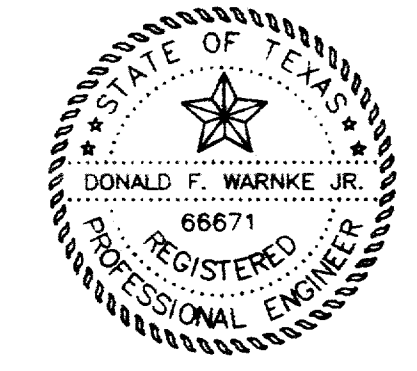
AREA	ACRES	C	I100	Q100	REMARKS	
A1	0.88	0.9	8.74	5.35	5.35	INC. ROOF DRAIN-BLDG. A
A2	0.87	0.5	8.74	3.80	9.15	FROM RES. SUBD.
A3	0.56	0.9	8.74	4.40	13.55	TO 10' C.I.
A4	2.89	0.9	8.74	21.13	34.68	KMART ROOF DRAINAGE
A5	1.18	0.4	7.70	3.60	38.28	PARK AREA
A6	0.49	0.9	8.74	3.85	41.93	TO 10' C.I.
A7	0.15	0.9	8.74	1.61	8.61	GARDEN SHOP DRAINAGE
A8	0.44	0.9	8.74	3.48	47.00	TO 8' C.I.
A9	0.36	0.9	8.74	2.83	2.83	TO 8' C.I.
B1	1.96	0.5	8.74	8.56	8.56	FROM SUBD. TO 54"
B2	4.45	0.45	7.70	15.40	15.40	PARK AREA
B3	1.46	0.9	8.74	11.48	11.48	TO 14' C.I.
B4	1.24	0.9	8.74	9.75	9.75	WINN-DIXIE ROOF DRAIN
B4-1	1.84	0.9	8.74	14.75	24.22	8' GRATE INLET
B5	0.10	0.9	8.74	0.79	0.79	BLDG. B ROOF DRAIN
B6	1.44	0.5	8.74	6.29	6.29	FROM SUBD. (6' C.I.)
B6-1	2.75	0.4	7.70	8.15	14.75	FUTURE PARK TO 3x3 DROP
B6-2	1.51	0.9	8.74	11.88	11.88	TO 10' C.I.
B6-3	2.81	0.9	8.74	22.10	22.10	TO 2X10' C.I.
B6-4	2.08	0.9	8.74	18.35	18.35	TO 14' C.I.
B6-5	0.83	0.9	8.74	4.97	4.97	TO 8' C.I.
B6-6	1.08	0.9	8.74	8.50	8.50	TO 10' C.I.
B6-7	0.57	0.9	8.74	4.50	4.50	TO EX. 10' C.I.
B6-8	0.73	0.90	8.74	5.7	5.7	TO 6' FLUME
B6-9	0.48	0.40	7.70	1.5	7.2	TO PROP. SWALE (PARK)
B6-10	0.21	0.90	8.74	1.7	8.9	TO 5' FLUME
B6-11	0.57	0.90	8.74	4.5	13.4	PROP. SWALE TO 3'x3' D.I.
B6-12	0.44	0.90	8.74	3.5	16.9	TO 10' C.I.
B6-13	0.57	0.90	8.74	4.5	21.4	TO 10' C.I.
B6-14	0.46	0.90	8.74	3.5	25.00	TO 10' C.I.
C1	1.22	0.9	8.74	9.60	9.60	TO 10' C.I.
C2	2.64	0.9	8.74	20.80	30.40	TO 20' C.I.
D1	1.66	0.9	8.74	13.06	13.06	FUTURE LOT 1, BLK D
D2	0.21	0.9	8.74	1.57	14.63	TO 8' C.I.
D3	0.61	0.9	8.74	4.80	4.80	TO 10' C.I.
D4	0.93	0.9	8.74	7.31	26.74	
E1	1.58	0.9	8.74	12.43	12.43	TO 10' C.I.
E2	0.88	0.9	8.74	6.92	6.92	TO 10' C.I.
E3	0.60	0.9	8.74	4.72	11.56	TO 10' C.I.
F1	0.53	0.9	8.74	4.17	4.17	TO 6' C.I.
G1	0.85	0.9	8.74	4.33	4.33	TO 10' C.I.
G2	0.85	0.9	8.74	6.69	6.69	TO 10' C.I.
H1	2.00	0.9	8.74	15.73	15.73	FUTURE LOT 2
J1	0.18	0.9	8.74	1.42	1.42	TO EXIST. INLET
K	0.12	0.9	8.74	0.94	0.94	TO BELT LINE ROAD
L1	0.90	0.45	7.70	3.12	3.12	FUTURE PARK
L2	5.56	0.9	8.74	43.74	48.86	FUTURE RETAIL
OS-1	175.00	0.60	8.8	714	714	FROM 96" RCP
OS-2	414.00	0.80	4.8	1590	1590	FROM AREA N. OF BELT LINE
OS-3	16.73	0.90	7.7	116	116	54"(BUSINESS DR.)
OS-4	01.14	0.90	8.7	9	9	FROM BELT LINE RD.
OS-5	62.00	0.52	7.6	245	245	4' GRATE INLET
OS-6	17.60	0.90	7.7	122	122	54" TO LOW PT. @ BELTLINE



AS-BUILTS
 I CERTIFY THIS PROJECT WAS CONSTRUCTED IN GENERAL CONFORMANCE WITH THESE CONSTRUCTION PLANS AND WILL FUNCTION AS DESIGNED.



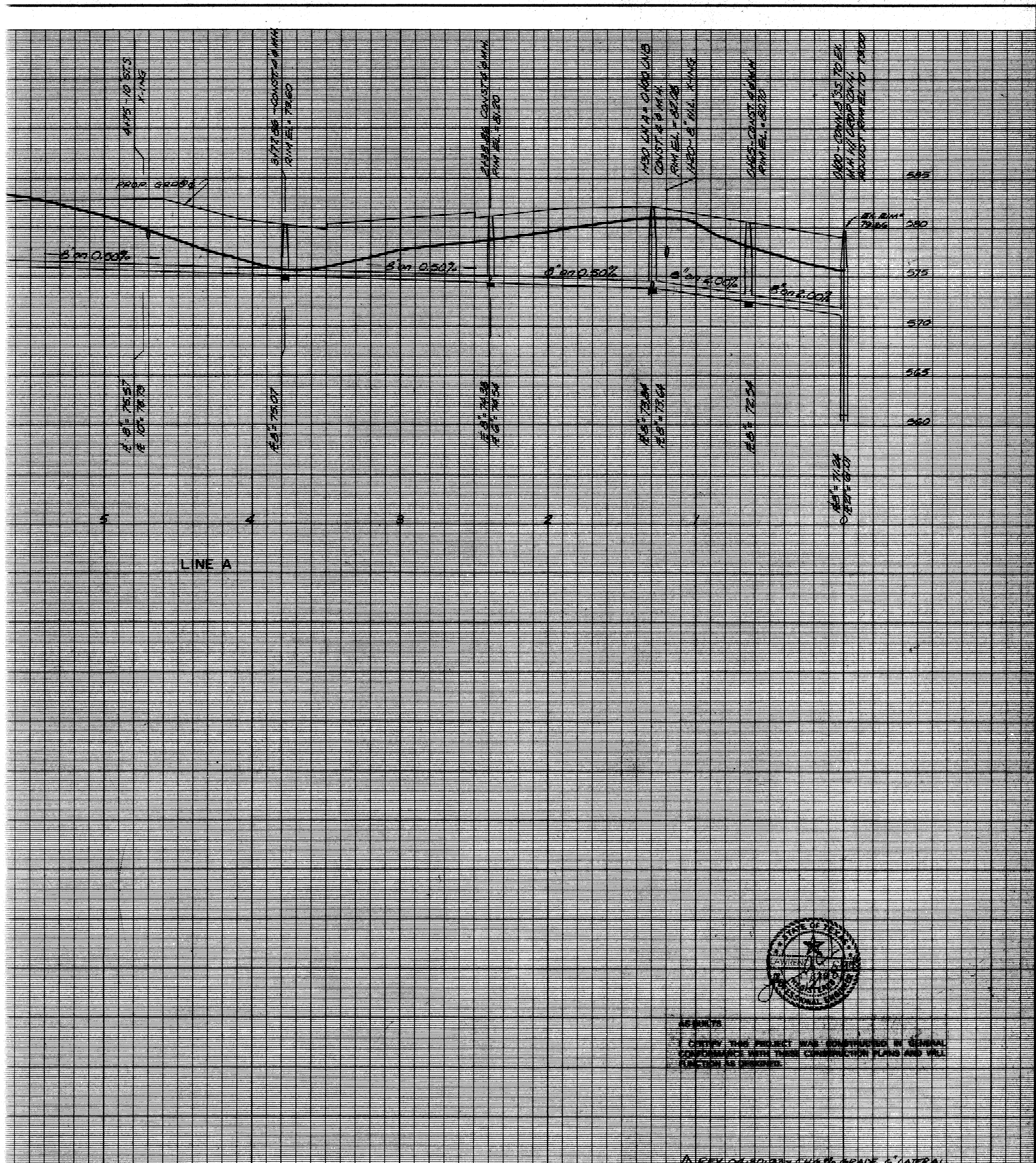
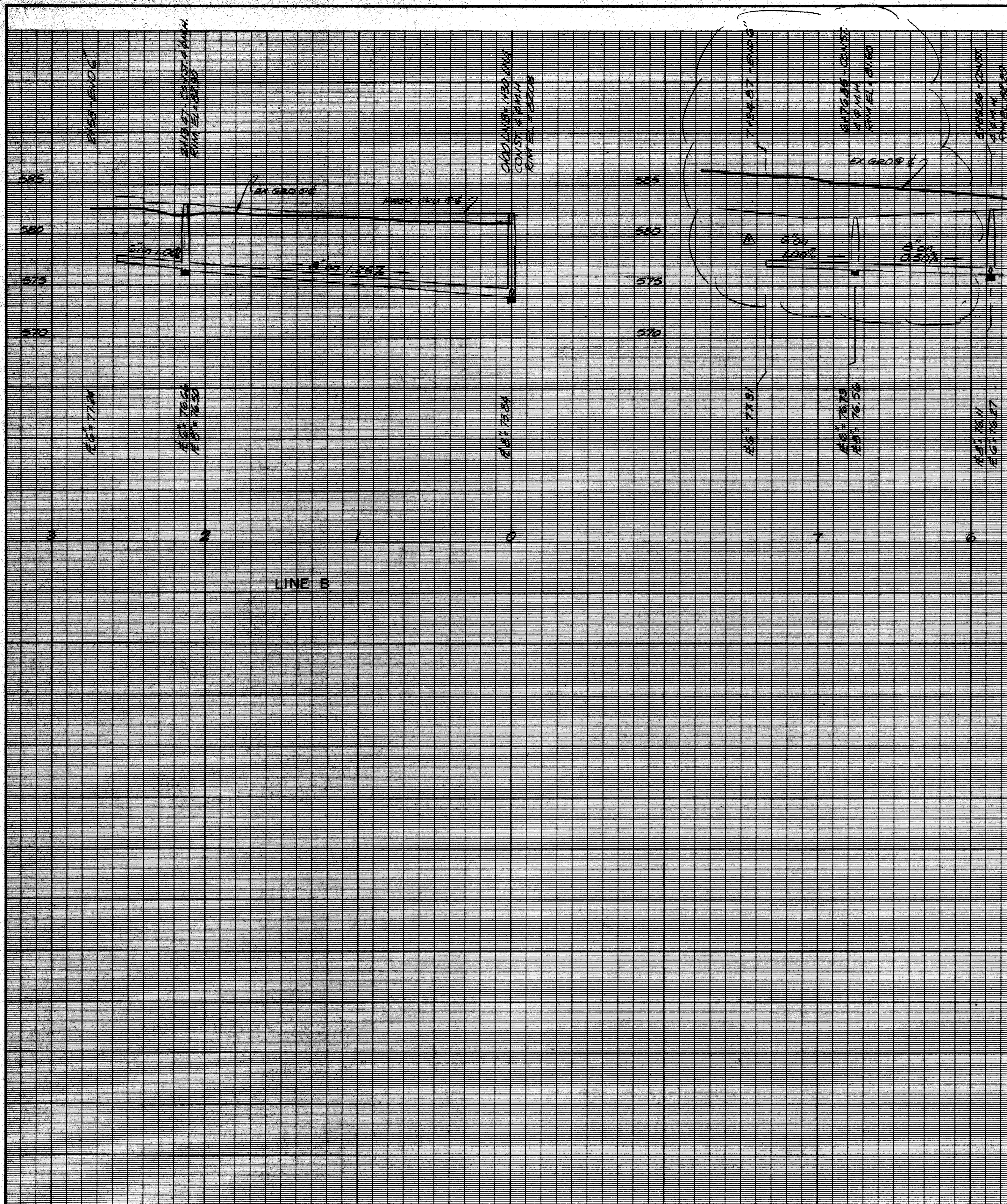
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY DONALD F. WARNKE JR., P.E. 66671 ON 01/21/94



REV	DATE	DESCRIPTION
1	5/17/94	ADDED BABY SUPERSTORES

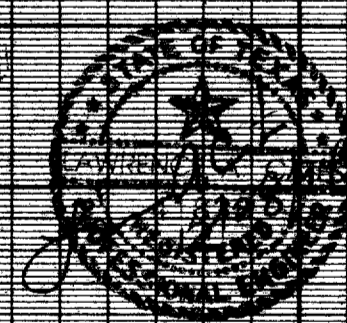
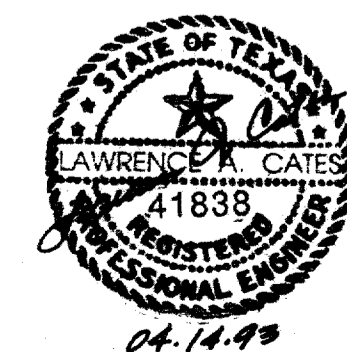
DRAINAGE AREA MAP
 COMP USA
 ADDISON TOWN CENTER
 TOWN OF ADDISON, TEXAS
 LAWRENCE A. CATES & ASSOC. CONSULTING ENGINEERS DALLAS, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LAC	LAC		1"=100'	D.P.	94044 DRNGMAP.DWG	C-9



BENCH MARK:
 N.W. CORNER OF
 SOUTH SIDE OF
 575' WEST OF
 ROAD AND BUSINESS
 AVENUE.
 ELEV. 573.06'

BENCH MARK:
 " " CUT ON STORM SEWER INLET ON
 SOUTH SIDE OF BELT LINE ROAD 70'±
 WEST OF COMMERCIAL DRIVE.
 ELEV. 580.56'



NOTES:
 1. VERIFY THAT PROJECT WAS CONSTRUCTED IN ACCORDANCE WITH THESE CONSTRUCTION PLANS AND SHALL BE KEPT AS SHOWN.

REV. 04.30.93 - CHG. 5% GRADE & LATERAL

LINE A & LINE B						
SANITARY SEWER PROFILES						
ADDISON TOWN CENTER						
TOWN OF ADDISON, TEXAS						
LAWRENCE A. CATES & ASSOC.						CONSULTING ENGINEERS DALLAS, TEXAS
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LAC	LAC	04/07/93	H: 1"=40' V: 1"=6'	D.P.	9102	C-9

HYDRAULIC CALCULATIONS FOR STORM SEWER AND LATERALS

STORM DRAIN CALCULATIONS

RUNOFF COLLECTION POINT		DISTANCE BETWEEN	INCREMENTAL DRAINAGE AREA				TIME AT UPSTREAM	DESIGN STORM	TIME OF CONCENTRATION	INTENSITY	ACCUMULATED WATER RUNOFF	SLOPE OF HYDRAULIC GRADIENT	SELECTION	VELOCITY IN DRAIN	FLOW TIME IN DRAIN	REMARKS
UPSTREAM STATION	DOWNSTREAM STATION	COLLECTION POINTS	AREA No.	DRAINAGE AREA "ACRES"	RUNOFF COEFF.	INCREMENTAL "CA"	TIME AT UPSTREAM (MIN)	FREQUENCY (YEARS)	(MIN)	(IN/HR)	(CFS)	(FT/FT)	DIAMETER (IN)	(FPS)	(MIN)	
EXISTING STORM DRAIN SYSTEM																
10+50	9+30	120		68.41	0.51	35.22	15.50	100	15	7.60	267.65	0.0106	10	13.63	0.15	15.65
9+30	8+84	46		0.00	0.51	0.00	15.65	100	15	7.50	264.13	0.0062	10	11.12	0.07	15.72
8+84	8+53	31		0.00	0.51	0.00	15.72	100	15	7.50	264.13	0.0062	10	11.12	0.05	15.76
8+53	8+34	19		0.00	0.51	0.00	15.76	100	15	7.50	264.13	0.0062	10	11.12	0.02	15.79
8+34	7+33	101		3.18	0.90	2.86	38.08	100	15	7.50	285.60	0.0072	10	12.02	0.14	15.93
7+33	4+88	245		6.34	0.90	5.71	43.79	100	10	7.50	328.39	0.0044	10	10.29	0.40	16.33
4+88	2+28	260		0.00	0.90	0.00	43.79	100	10	7.40	324.01	0.0024	10	8.22	0.53	16.85
2+28	0+00	228		0.00	0.90	0.00	43.79	100	10	7.30	319.63	0.0025	10	8.31	0.46	17.31
STORM DRAIN 1.0																
7+10	3+60	349.91		1.51	0.90	1.36	10.00	100	10	8.74	11.88	0.0128	10	6.72	0.97	10.87
3+60	1+61	199.15		1.98	0.90	1.78	10.87	100	10	8.50	26.70	0.0074	10	6.71	0.45	11.36
1+61	0+00	160.78		2.81	0.90	2.53	11.36	100	10	8.35	47.34	0.0033	10	5.71	0.47	11.83

HYDRAULIC ANALYSIS OF EXISTING STORM DRAIN SYSTEM

STATION	SECTION	PIPE DIA.	AREA	R	R 2/3	N	Q CFS	VEL FPS	V2/2g	Sf	PIPE LENGTH	PIPE FRICTION	Kj	PIPE BENDS	Kj	WYE MANHOLE	Kj	DIA CHANGE	TOTAL LOSSES	WATER SURFACE	ENERGY GRADIENT	COMMENTS	STATION
0+00		84	38.485	1.750	1.452	0.013	319.70	8.31	1.07	0.0025	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.54	0.54	575.15	576.76	BOX TO 84'	0+00
2+28		84	38.485	1.750	1.452	0.013	319.70	8.31	1.07	0.0025	228.00	0.57	0.00	0.00	0.00	0.00	0.50	0.54	1.11	576.79	577.86	84' TO 72'	2+28
4+88		72	28.274	1.500	1.310	0.013	206.90	7.32	0.83	0.0024	260.00	0.62	0.00	0.00	0.00	0.00	0.45	0.37	0.99	577.79	578.62	72' TO BOX	4+88
4+88		60	19.635	1.250	1.160	0.013	117.10	5.96	0.55	0.0020	273.00	0.55	0.35	0.19	0.00	0.00	0.45	0.25	0.99	577.79	578.34	60' TO BOX	4+88
7+33		72/54	47.909																	577.79	577.79		
7+33		2-7X3	42.000	1.050	1.033	0.013	328.40	7.82	0.95	0.0044	245.00	1.07	0.00	0.00	0.00	0.00	0.50	0.47	1.55	579.34	580.28	BOX TO 66'	7+33
8+34		66	23.758	1.375	1.237	0.013	285.60	12.02	2.24	0.0072	101.00	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.73	580.07	582.31		8+34
8+53		66	23.758	1.375	1.237	0.013	285.60	12.02	2.24	0.0072	19.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.14	580.20	582.45		8+53
8+84		66	23.758	1.375	1.237	0.013	264.20	11.12	1.92	0.0062	50.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.31	580.51	582.43	24x66 CONN	8+84
9+30		66	23.758	1.375	1.237	0.013	264.20	11.12	1.92	0.0062	46.00	0.28	0.00	0.00	0.00	0.00	0.35	0.67	0.96	581.47	583.39	66' TO 60'	9+30
10+50		60	19.635	1.250	1.160	0.013	267.70	13.63	2.89	0.0106	120.00	1.27	0.00	0.00	0.00	0.00	0.00	0.00	1.27	582.74	585.62		10+50
0+00		24	3.142	0.500	0.630	0.013	11.48	3.65	0.21	0.0026	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.08	580.51	580.80	24x66 CONN	0+00
2+86		24	3.142	0.500	0.630	0.013	11.48	3.65	0.21	0.0026	286.07	0.74	0.00	0.00	0.00	0.00	0.00	0.00	0.74	581.33	581.54	10' INLET	2+86

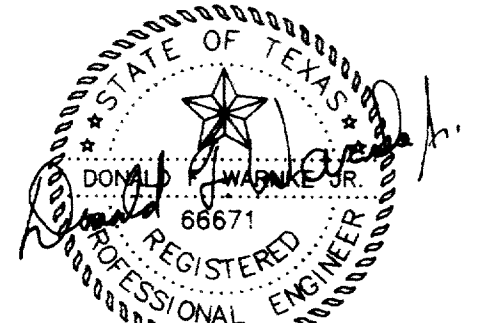
07-Feb-94

COMP USA ADDISON / JOB NO. 93059 / FILE NAME STM1012B

HYDRAULIC CALCULATIONS FOR STORM SEWER AND LATERALS

STATION	SECTION	PIPE DIA.	AREA	R	R 2/3	N	Q CFS	VEL FPS	V2/2g	Sf	PIPE LENGTH	PIPE FRICTION	Kj	PIPE BENDS	Kj	WYES MANHOLE	Kj	DIA CHANGE	TOTAL LOSSES	WATER SURFACE	ENERGY GRADIENT	COMMENTS	STATION
0+00		39	8.296	0.813	0.871	0.013	47.34	5.71	0.51	0.0033	0.00	0.00	0.35	0.18	0.00	0.00	1.00	0.51	0.68	579.34	580.53	39' CONN	0+00
1+61		39	8.296	0.813	0.871	0.013	47.34	5.71	0.51	0.0033	160.78	0.53	0.00	0.00	0.50	0.00	0.00	0.00	0.78	580.80	581.31	27x39 CONN	1+61
1+65		39	8.296	0.813	0.871	0.013	26.70	3.22	0.16	0.0010	4.00	0.00	0.00	0.00	0.00	0.00	1.00	0.16	0.17	580.97	581.13	39' TO 27'	1+65
3+60		27	3.976	0.563	0.681	0.013	26.70	6.72	0.70	0.0074	195.15	1.45	0.00	0.00	0.50	0.00	1.00	0.70	2.50	583.47	584.17	TYPE A MH	3+60
7+10		18	1.767	0.375	0.520	0.013	11.88	6.72	0.70	0.0128	349.91	4.48	0.00	0.00	0.00	0.00	0.00	0.00	4.48	587.95	588.65	10' C.I.	7+10
0+00		27	3.976	0.563	0.681	0.013	22.12	5.56	0.48	0.0051	0.00	0.00	0.00	0.00	0.50	0.00	1.00	0.48	0.72	580.99	581.52	27x39 CONN	0+00
0+78		1.1	27	3.976	0.563	0.681	0.013	22.12	5.56	0.0051	78.00	0.49	0.00	0.00	0.00	0.00	0.00	0.00	0.40	581.92	582.40	2-10' C.I.	0+78
0+00		1.2	18	1.767	0.375	0.520	15.55	8.80	1.20	0.0219	0.00	0.00	0.00	0.00	0.50	0.00	1.00	1.20	1.80	585.27	586.48	18x27 CONN	0+00
2+08		1.2	18	1.767	0.375	0.520	15.55	8.80	1.20	0.0219	208.00	4.56	0.00	0.00	0.00	0.00	0.00	0.00	4.61	589.88	591.08	3'x3' D.I.	2+08
3+24		1.2	18	1.767	0.375	0.520	6.29	3.56	0.20	0.0036	115.87	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.42	590.30	590.49	8' INLET	3+24
0+00		2.0	60	19.635	1.250	1.160	117.10	5.96	0.55	0.0020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	576.79	577.34	60x84 CONN	0+00
2+73		2.0	60	19.635	1.250	1.160	117.10	5.96	0.55	0.0020	273.00	0.55	0.35	0.19	0.00	0.00	0.45	0.25	0.99	577.79	578.34	60' TO BOX	2+73

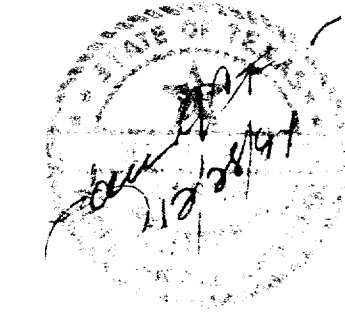
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY DONALD F. WARNKE JR., P.E. 66671 ON 01/21/94



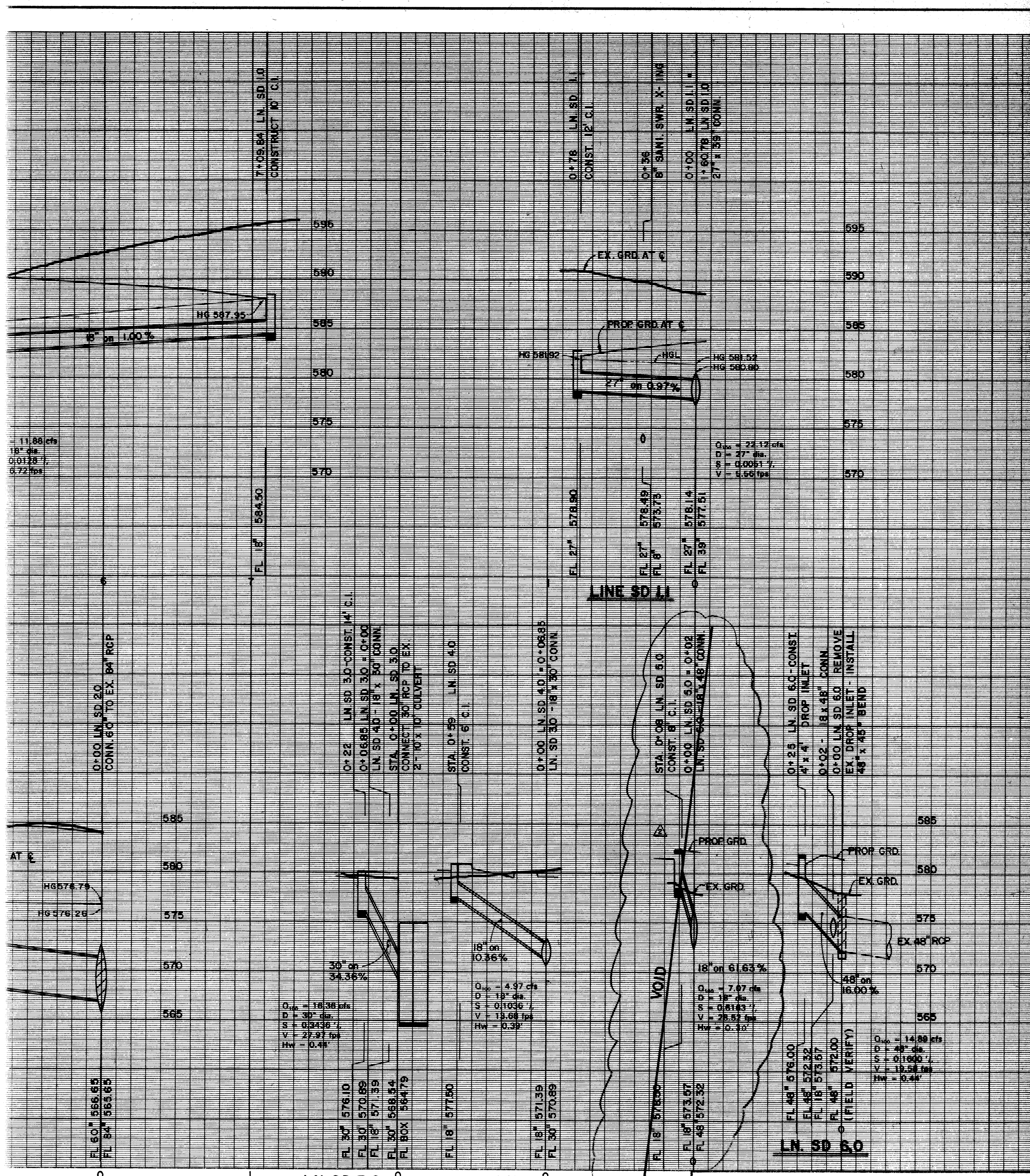
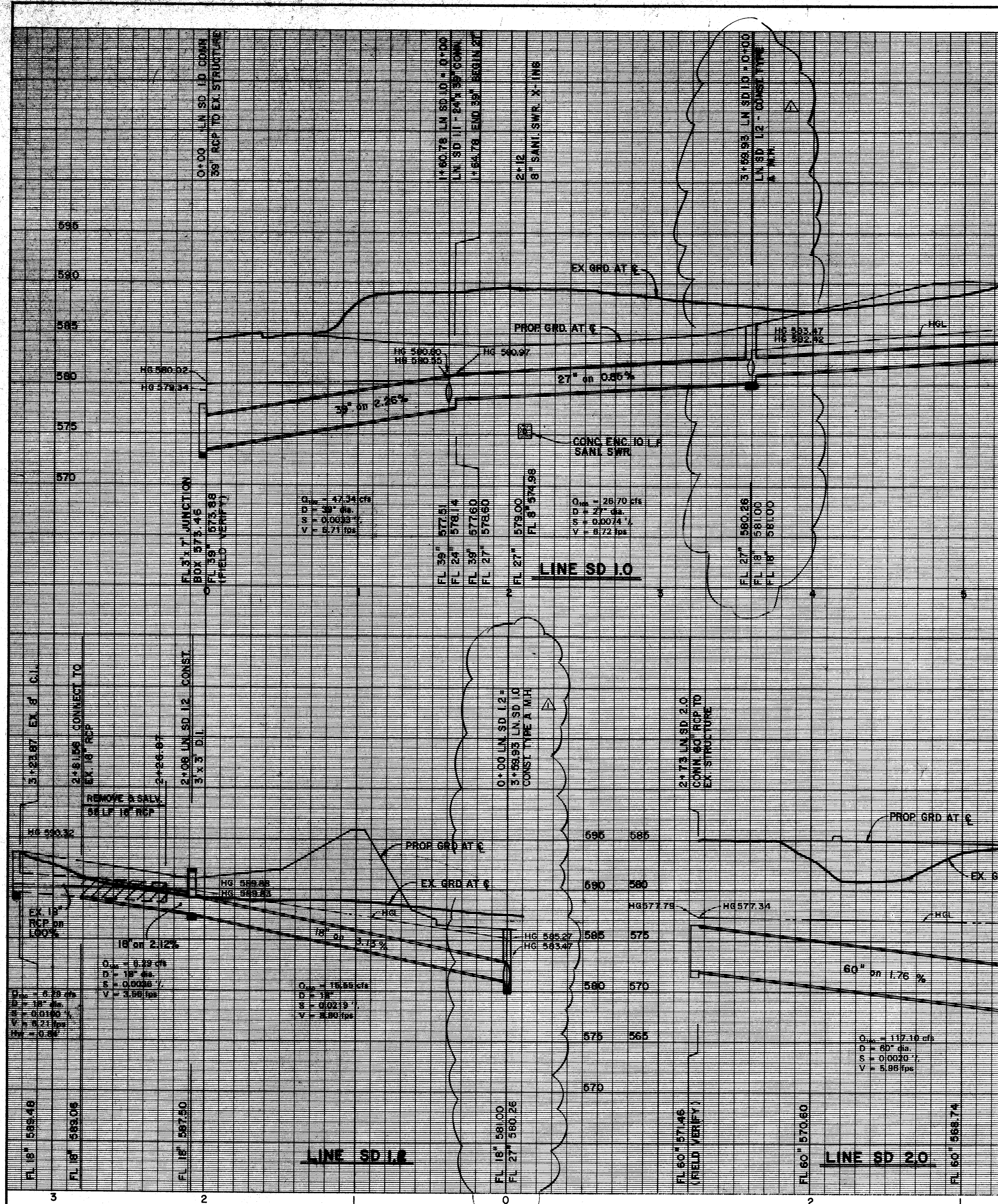
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AS-BUILTS

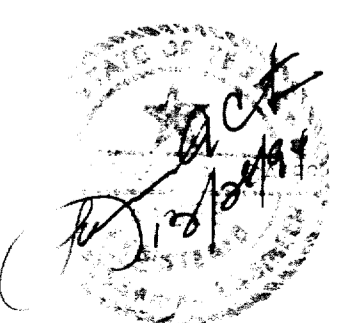
I CERTIFY THIS PROJECT WAS CONSTRUCTED IN GENERAL CONFORMANCE WITH THESE CONSTRUCTION PLANS AND WILL FUNCTION AS DESIGNED.



HYDRAULIC CALCULATIONS						
COMP USA						
ADDISON TOWN CENTER						
TOWN OF ADDISON, TEXAS						
LAWRENCE A. CATES & ASSOC. CONSULTING ENGINEERS DALLAS, TEXAS						
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LAC	LAC	01/21/94	N/A	D.P.	93059 HYDCALC.DWG	C-9A

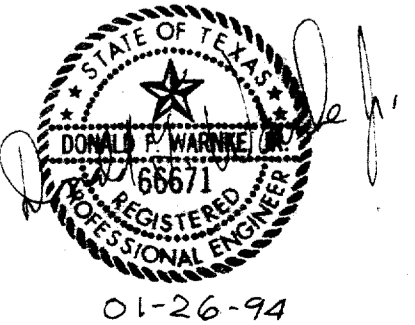


AS-BUILTS
 I CERTIFY THIS PROJECT WAS CONSTRUCTED IN GENERAL CONFORMANCE WITH THESE CONSTRUCTION PLANS AND WILL FUNCTION AS DESIGNED.

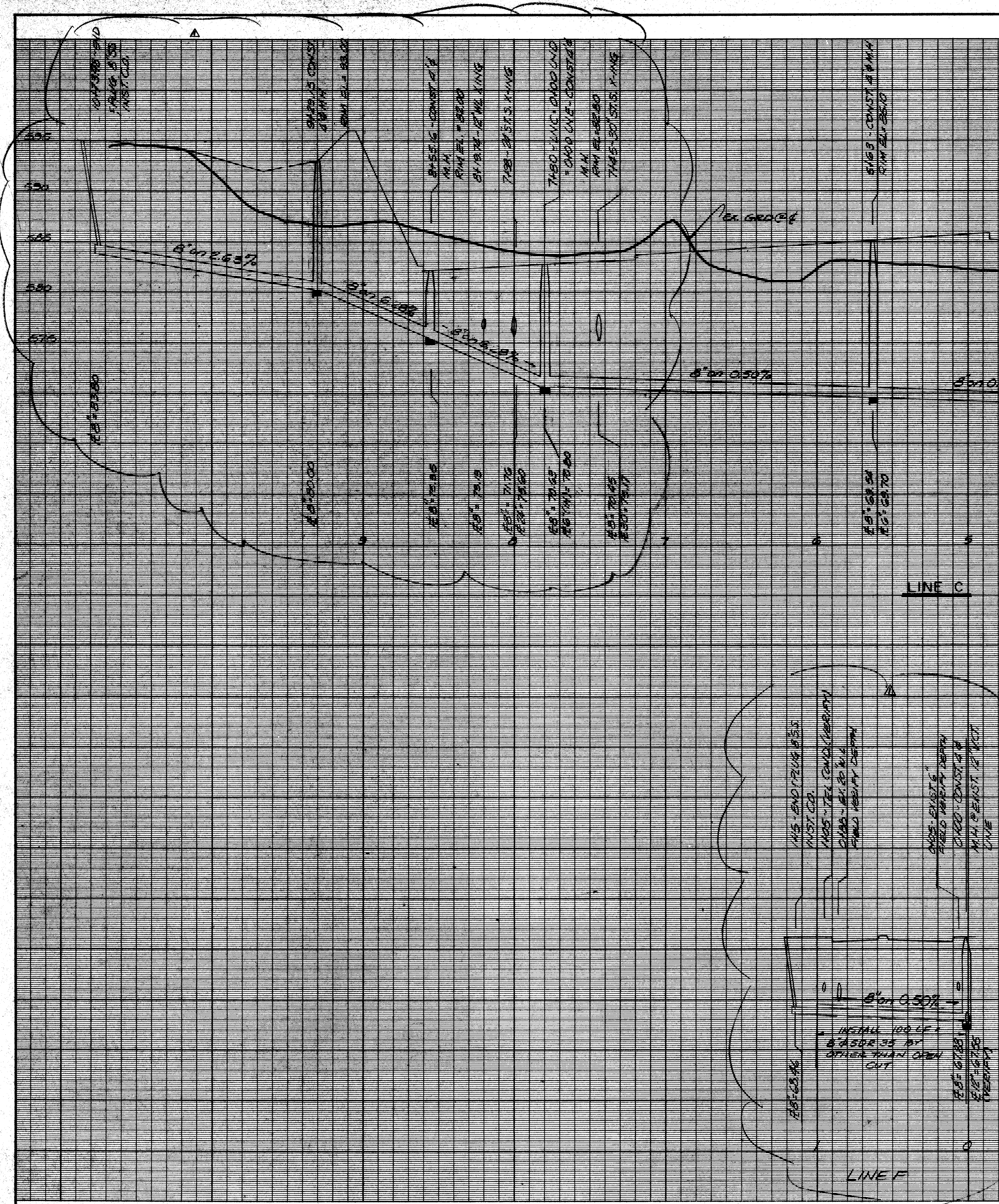


BENCHMARK:
 □ CUT ON STORM SEWER INLET ON SOUTH SIDE OF BELTLINE ROAD 70± WEST OF COMMERCIAL DRIVE.
 ELEV. = 580.56

REV. 5/12/94 VOID LN. SD 5.0
 REV. 02/07/94 ADDED TYPE A M.H. LN. SD 1.0



STORM SEWER PROFILES						
COMP U.S.A.						
ADDISON TOWN CENTER						
CITY OF ADDISON, TEXAS						
LAWRENCE A. CATES & ASSOC. CONSULTING ENGINEERS						
DALLAS, TEXAS						
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LAC	LAC	01/11/94	H: 1"=40' V: 1"=6'	D.P.	93059	C-10

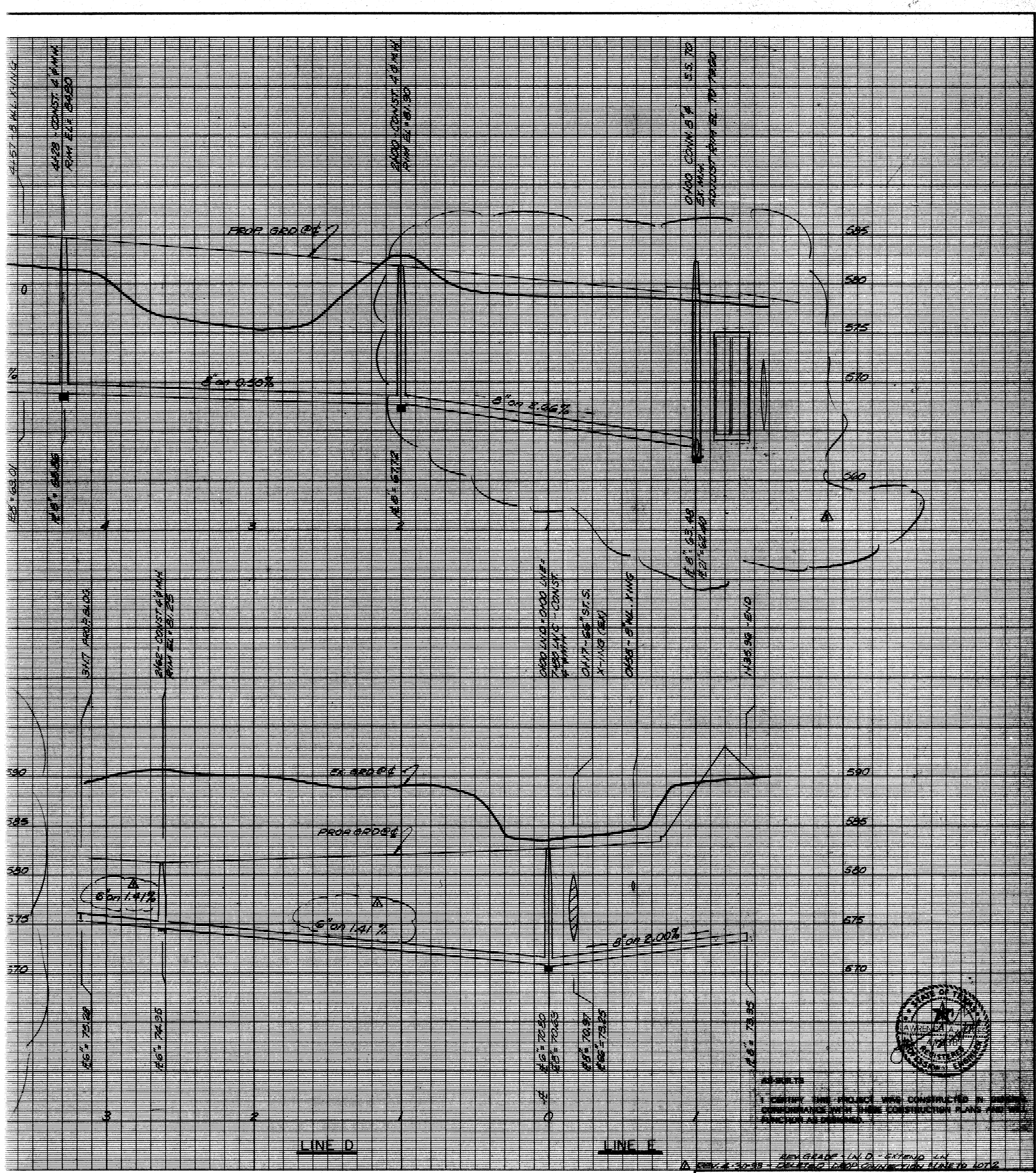


LINE C

LINE F

BENCHMARK:
N.W. CORNER OF EXISTING
SOUTH SIDE OF BELT LINE
575' WEST OF THE INTER-
SECTION OF BELT LINE
ROAD AND BUSINESS AVENUE
ELEV. 573

8" INLET LOCATED ON
SOUTH SIDE OF BELT LINE
575' WEST OF THE INTER-
SECTION OF BELT LINE
ROAD AND BUSINESS AVENUE



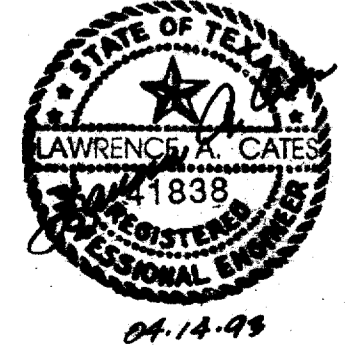
LINE D

LINE E

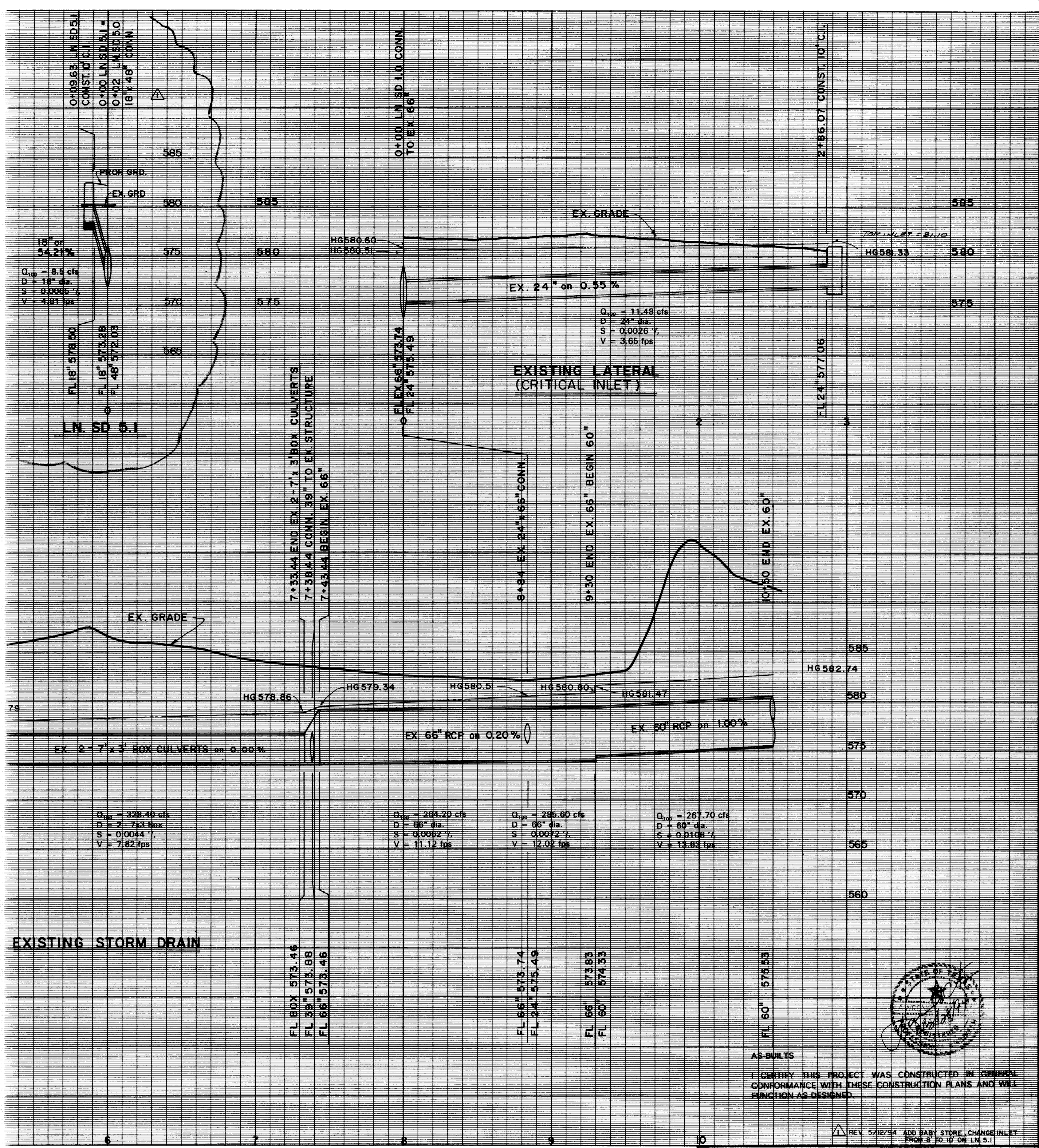
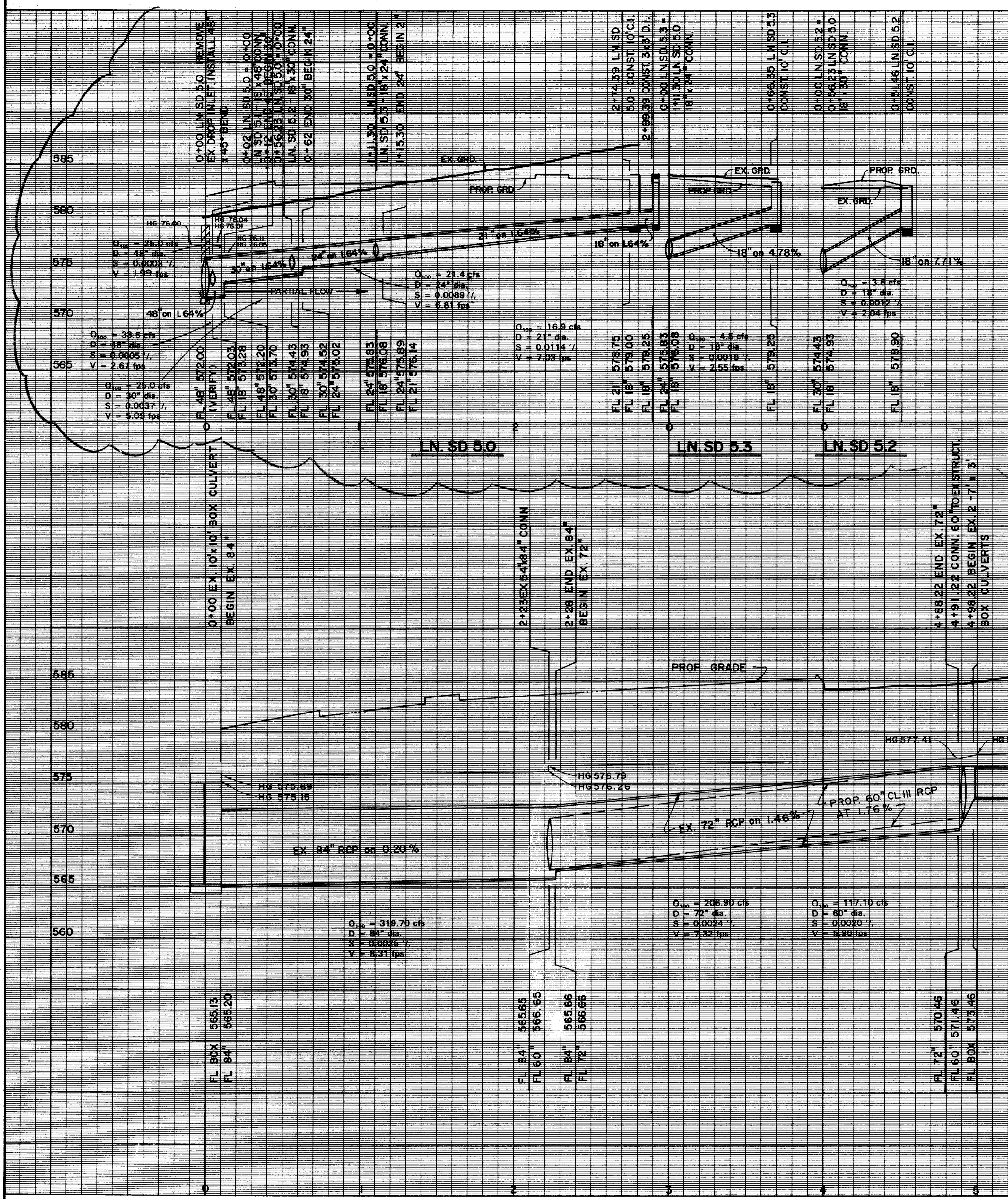
BENCHMARK:
" " CUT ON STORM SEWER INLET ON
SOUTH SIDE OF BELT LINE ROAD 70'
WEST OF COMMERCIAL DRIVE.
ELEV. 580.56'

1. VERIFY THIS PROJECT WAS CONSTRUCTED IN ACCORDANCE WITH THESE CONSTRUCTION PLANS AND ALL PUNCH LIST ITEMS.

LINES C, D & E						
SANITARY SEWER PROFILES						
ADDISON TOWN CENTER						
TOWN OF ADDISON, TEXAS						
LAWRENCE A. CATES & ASSOC. CONSULTING ENGINEERS DALLAS, TEXAS						
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LAC	LAC	4/7/93	H: 1" = 40' V: 1" = 6'	D.P.	9102	C-10



04-14-93



HOBAS PIPE SERVICE - DALLAS FULL PROFILE SHEET

BENCHMARK:
 12" CUT ON STORM SEWER
 INLET ON SOUTH SIDE OF
 BELTLINE ROAD 70'± WEST
 OF COMMERCIAL DRIVE.
 ELEV. = 580.56

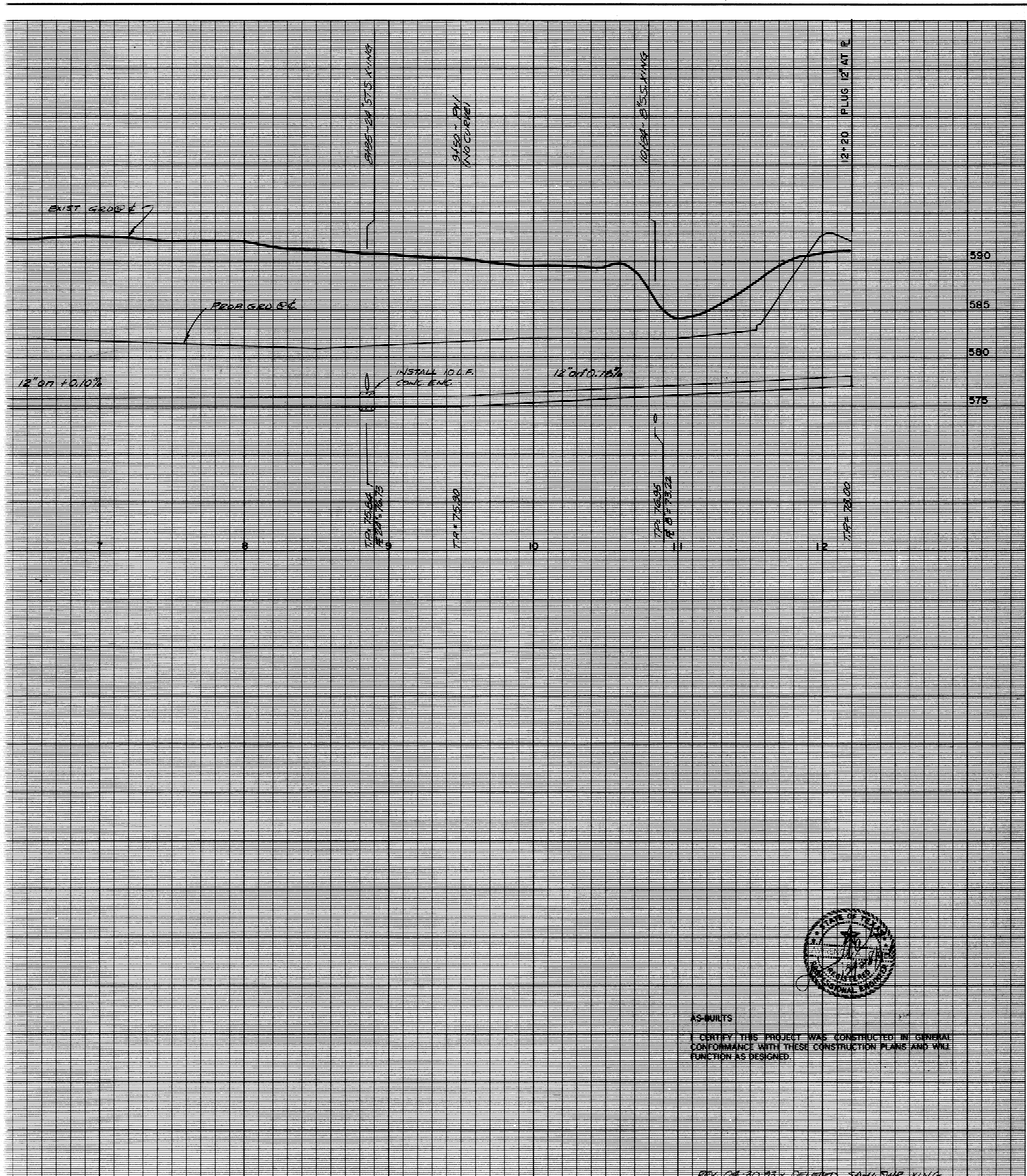
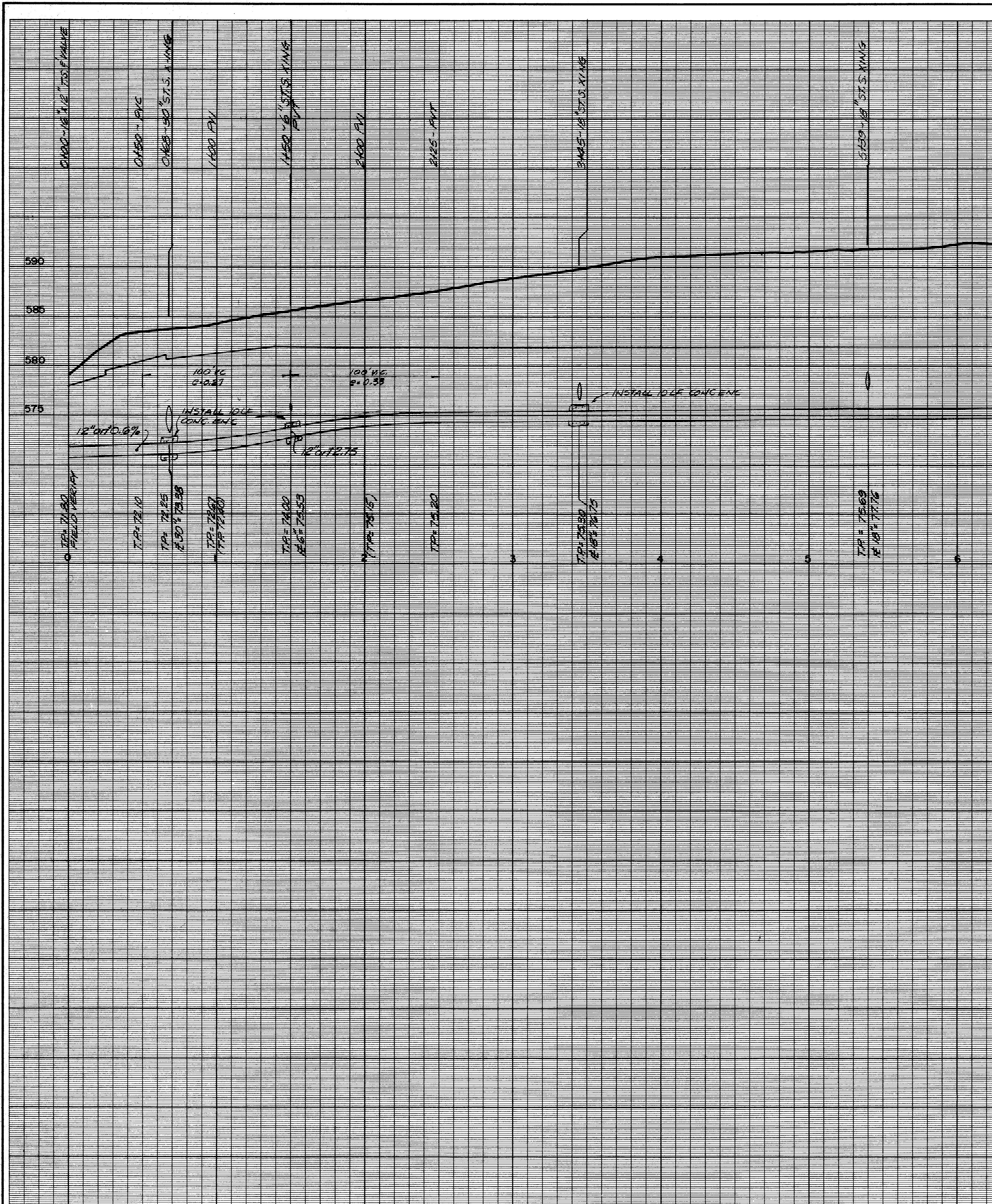


01-26-94

STORM SEWER PROFILES						
COMP U.S.A.						
ADDISON TOWN CENTER						
CITY OF ADDISON, TEXAS						
LAWRENCE A. CATES & ASSOC.					CONSULTING ENGINEERS	
					DALLAS, TEXAS	
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
DFW	DFW	01/11/94	H:1"=40' V:1"=6'	D.P.	93059	C-11

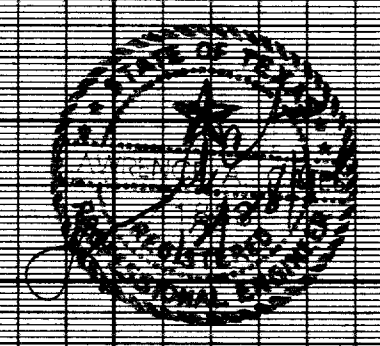
AS-BUILTS
 I CERTIFY THIS PROJECT WAS CONSTRUCTED IN GENERAL
 CONFORMANCE WITH THESE CONSTRUCTION PLANS AND WILL
 FUNCTION AS DESIGNED.

REV. 5/12/94 ADD BABY STORE CHANGE INLET
 FROM 8 TO 10 ON LN. 5.1



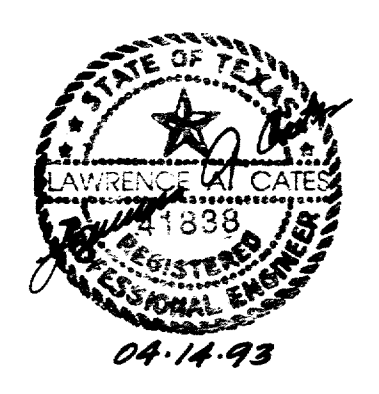
BENCH MARK:
 N.W. CORNER OF EXISTING CURB
 SOUTH SIDE OF BELT LINE ROAD
 575' WEST OF THE INTERSECT.
 ROAD AND BUSINESS AVENUE.
 ELEV. 573.06'

BENCH MARK:
 " " CUT ON STORM SEWER INLET ON
 SOUTH SIDE OF BELT LINE ROAD 70'±
 WEST OF COMMERCIAL DRIVE.
 ELEV. 580.56'



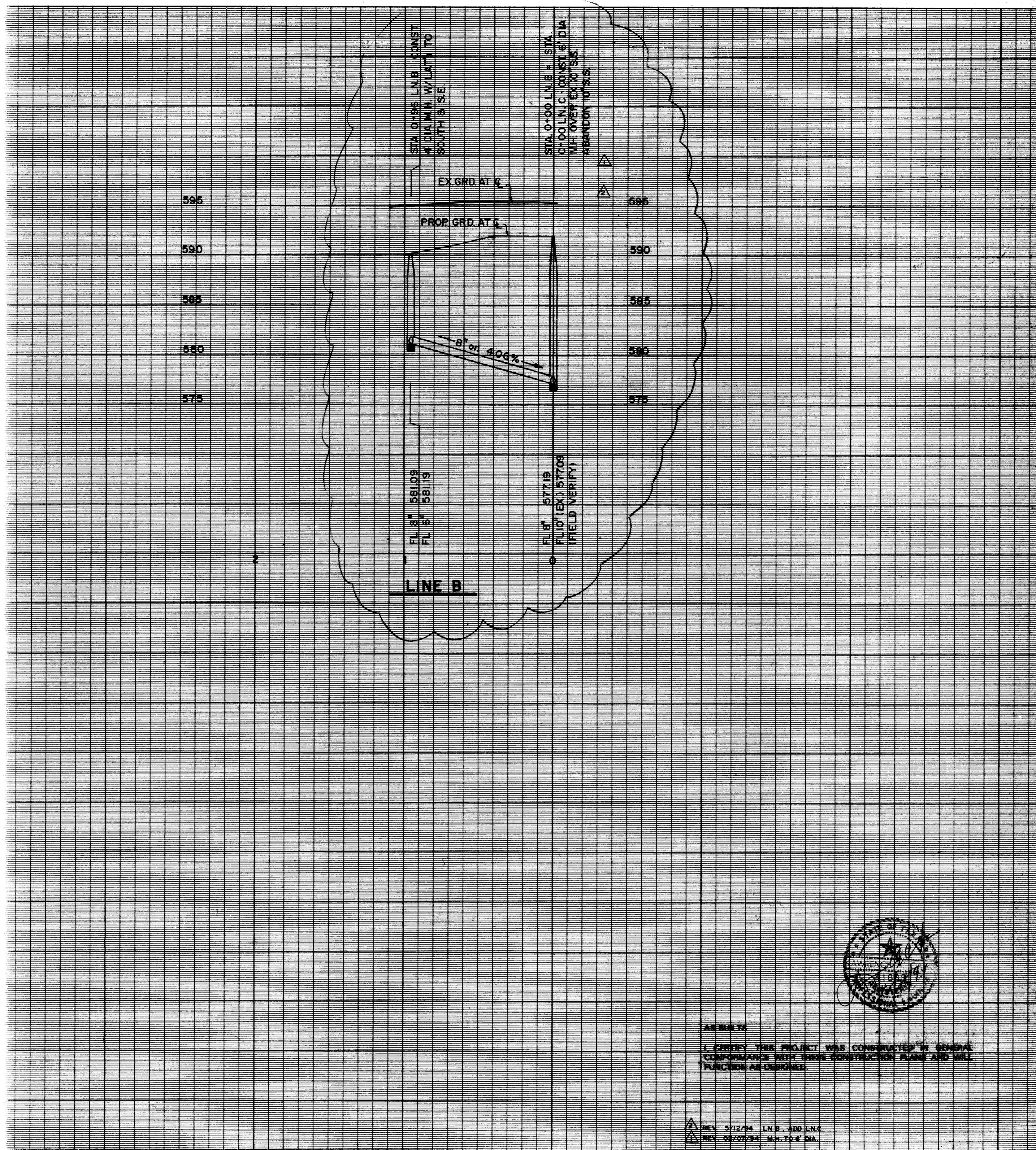
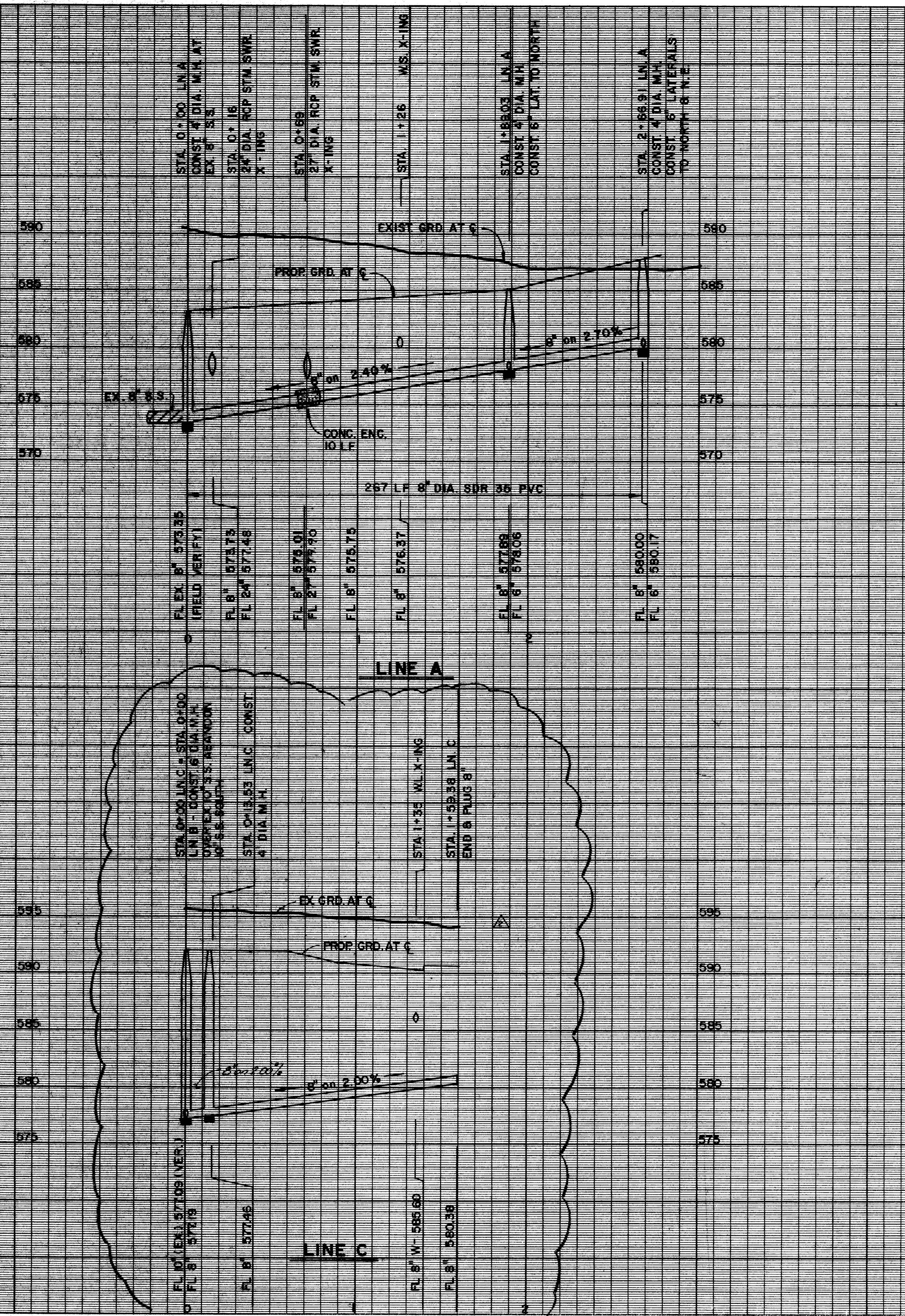
AS-BUILTS
 I CERTIFY THIS PROJECT WAS CONSTRUCTED IN GENERAL
 CONFORMANCE WITH THESE CONSTRUCTION PLANS AND WILL
 FUNCTION AS DESIGNED.

REV. 04-20-93 BY DELETED SAWN-DUR KING



12" WATER LINE PROFILE						
K MART NO. 4885						
BELTLINE & MARSH						
ADDISON, TEXAS						
LAWRENCE A. CATES & ASSOC.						CONSULTING ENGINEERS DALLAS, TEXAS
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LAC	LAC	4/12/93	H:1"=40' V:1"=6'	D.P.	91012	C-11

ARCHIVE SURPLUS 148835

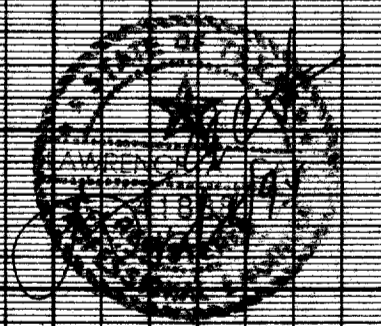


ABSTRACT

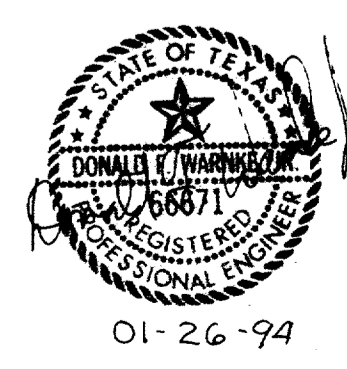
I CERTIFY THIS PROJECT WAS CONSTRUCTED TO GENERAL CONFORMANCE WITH THESE SPECIFICATIONS PLANS AND ALL PUNCTURE AS INDICATED.

REV. 07/27/94 LN. B - 300 LN. A

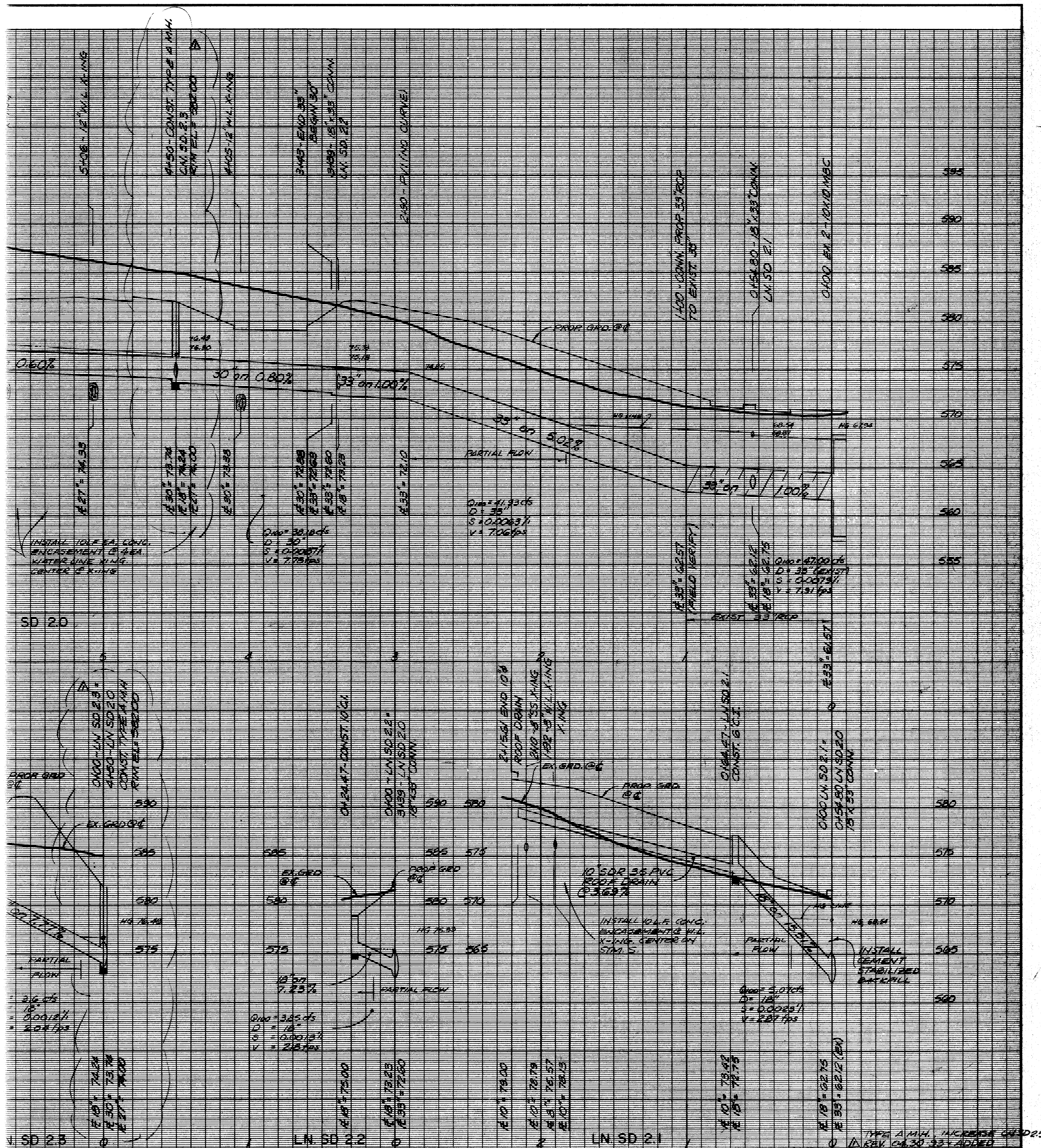
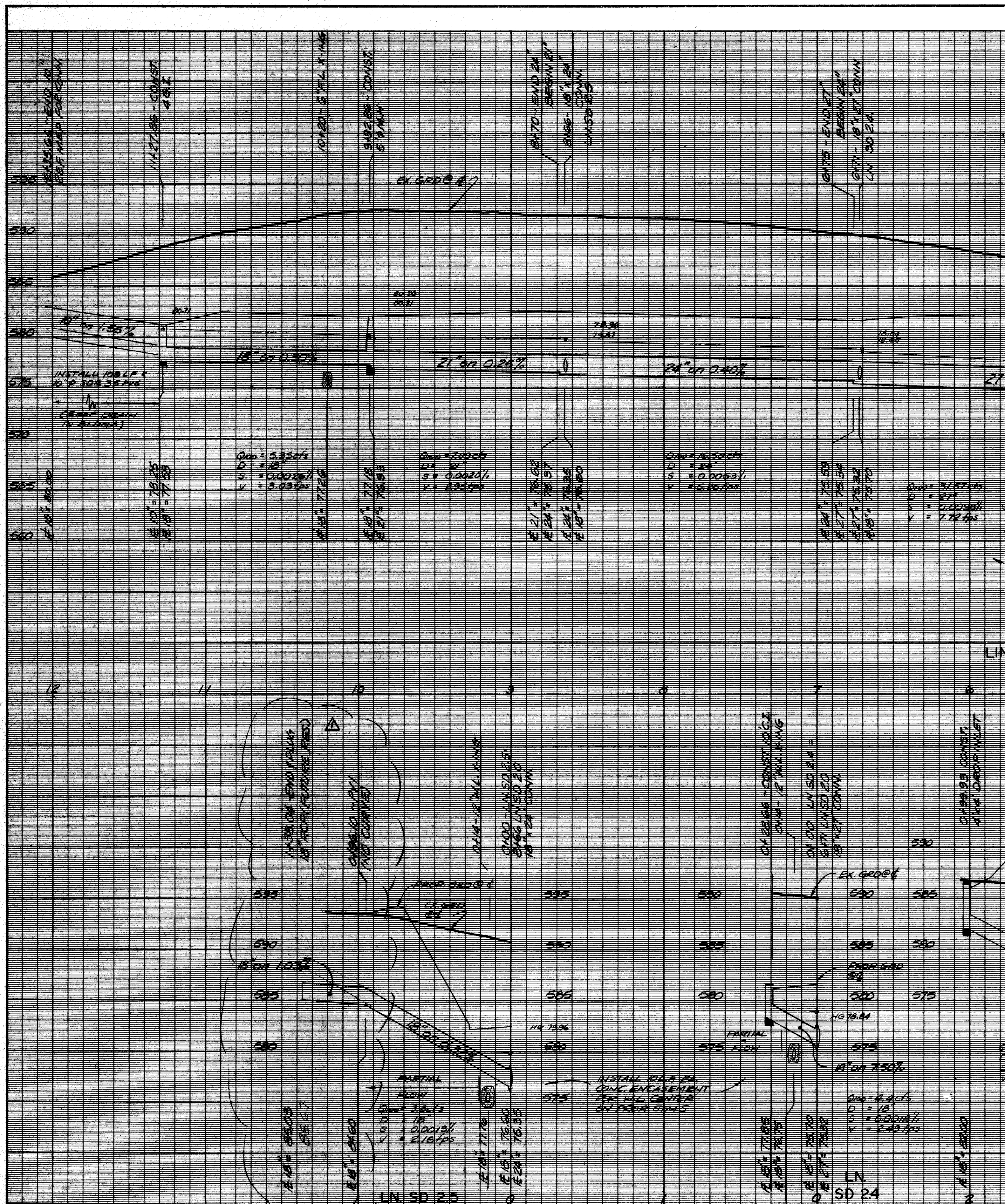
REV. 02/07/94 M.H. TO 6" DIA.



BENCHMARK:
 1" CUT ON STORM SEWER
 INLET ON SOUTH SIDE OF
 BELTLINE ROAD 70'± WEST
 OF COMMERCIAL DRIVE.
 ELEV. = 580.56

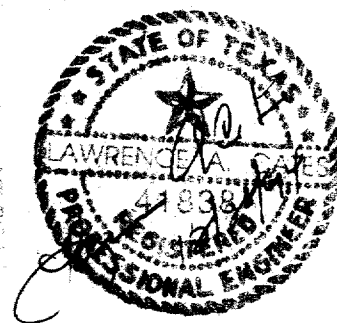


SANITARY SEWER PROFILES							
COMP U.S.A.							
ADDISON TOWN CENTER							
CITY OF ADDISON, TEXAS							
LAWRENCE A. CATES & ASSOC. CONSULTING ENGINEERS DALLAS, TEXAS							
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.	
LAC	LAC	01/11/94	H: 1"=40' V: 1"=6'	D.P.	93059	C-12	



AS-BUILTS

I CERTIFY THIS PROJECT WAS CONSTRUCTED IN GENERAL CONFORMANCE WITH THESE CONSTRUCTION PLANS AND WILL FUNCTION AS DESIGNED.



BENCHMARK:

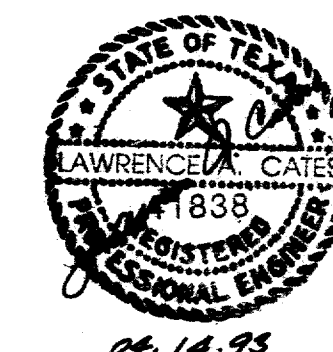
N.W. CORNER OF EXISTING C SOUTH SIDE OF BELT LINE 575' WEST OF THE INTERSECTION OF BELT LINE ROAD AND BUSINESS AVENUE.

ELEV. 573.0

BENCHMARK:

" " CUT ON STORM SEWER INLET ON SOUTH SIDE OF BELT LINE ROAD 70' WEST OF COMMERCIAL DRIVE.

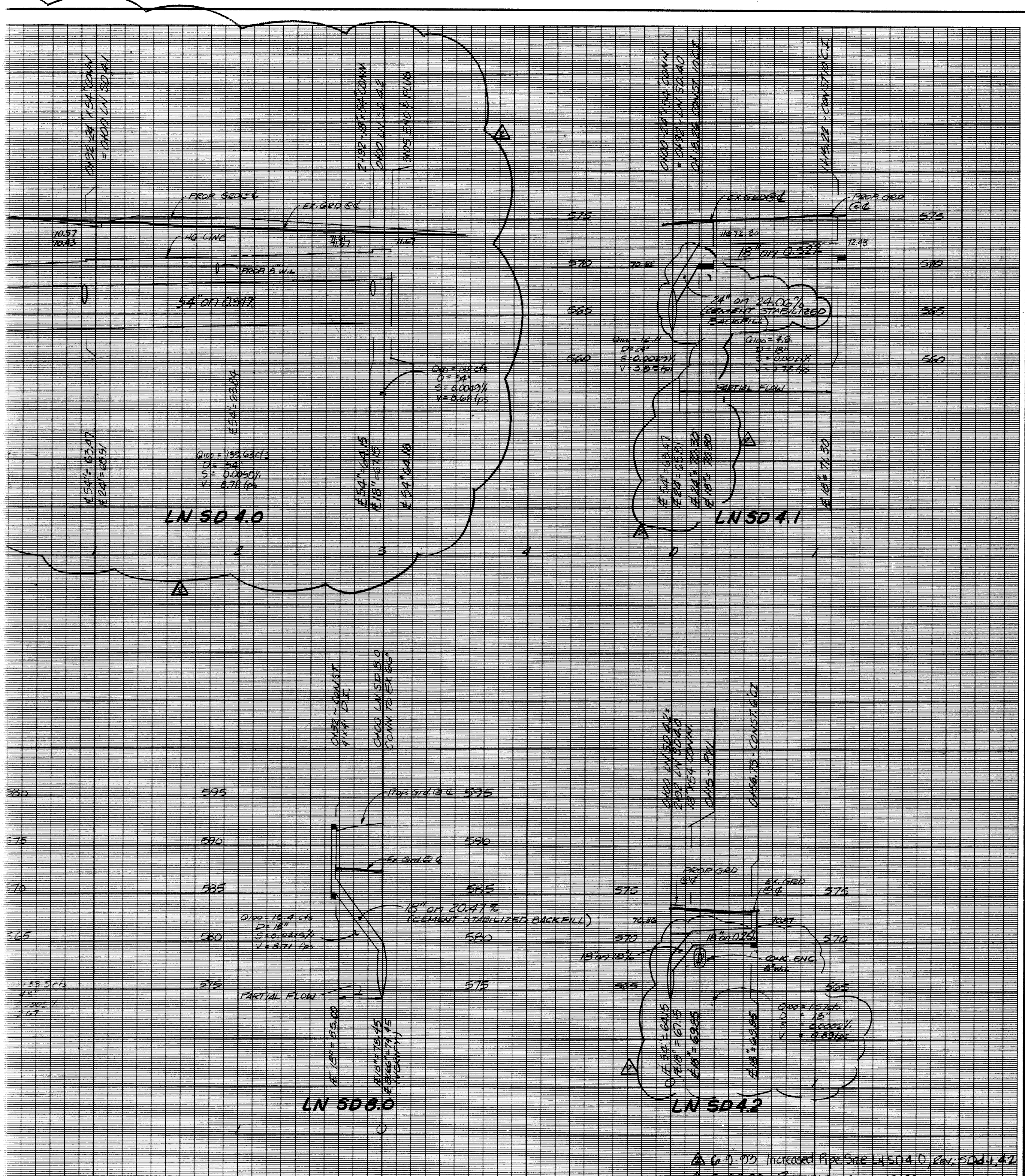
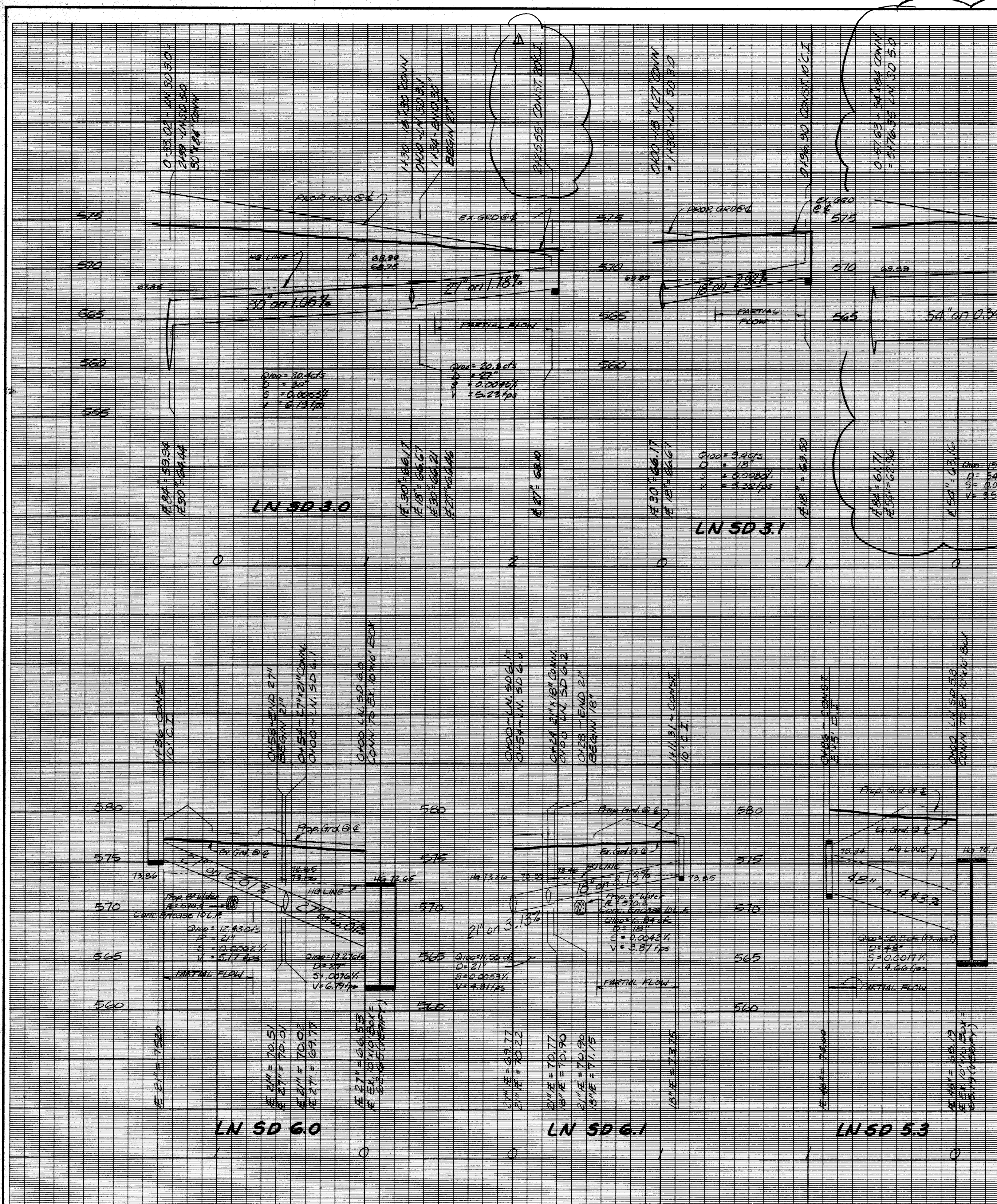
ELEV. 580.56'



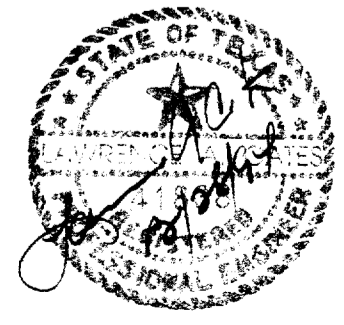
LINES SD 20, 21, 2.2, 2.3, 2.4 & 2.5

STORM SEWER PROFILES
ADDISON TOWN CENTER
TOWN OF ADDISON, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LAC	LAC	4/7/93	H: 1"=40' V: 1"=6'	D.P.	9102	C-12



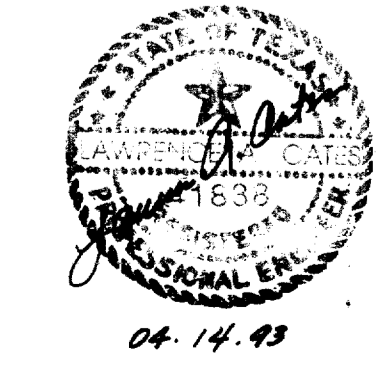
AS-BUILTS
 I CERTIFY THIS PROJECT WAS CONSTRUCTED IN GENERAL CONFORMANCE WITH THESE CONSTRUCTION PLANS AND WILL FUNCTION AS DESIGNED.



BENCHMARK:
 N.W. CORNER OF EXISTING CURB
 SOUTH SIDE OF BELT LINE ROAD
 571' WEST OF THE INTERSECT
 ROAD AND BUSINESS AVENUE.
 ELEV. 573.06'

LET LOCATED ON
 SOUTH SIDE OF BELT LINE
 ROAD 70'±
 WEST OF COMMERCIAL DRIVE.

BENCHMARK:
 "□" CUT ON STORM SEWER INLET ON
 SOUTH SIDE OF BELT LINE ROAD 70'±
 WEST OF COMMERCIAL DRIVE.
 ELEV. 580.56'

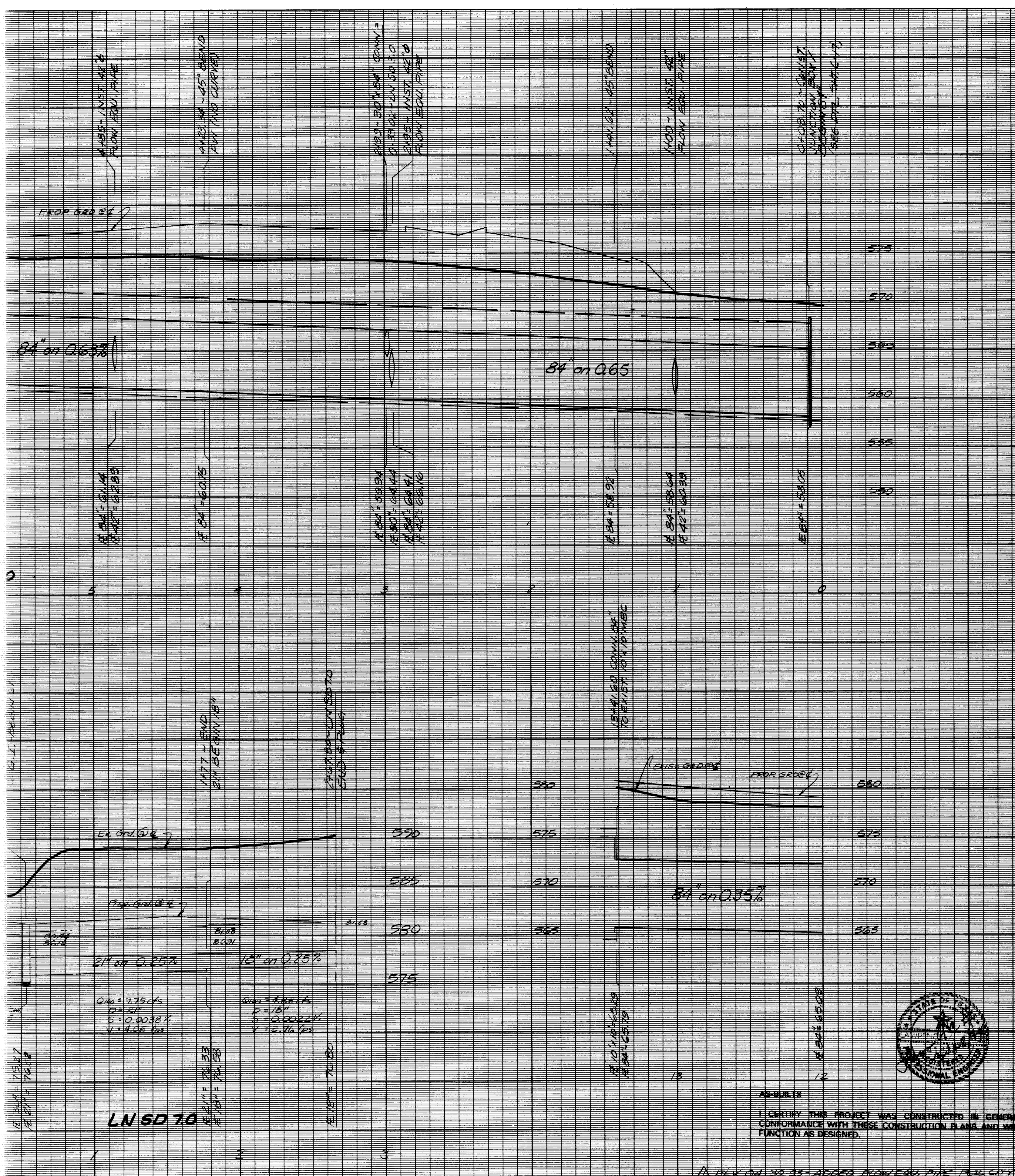
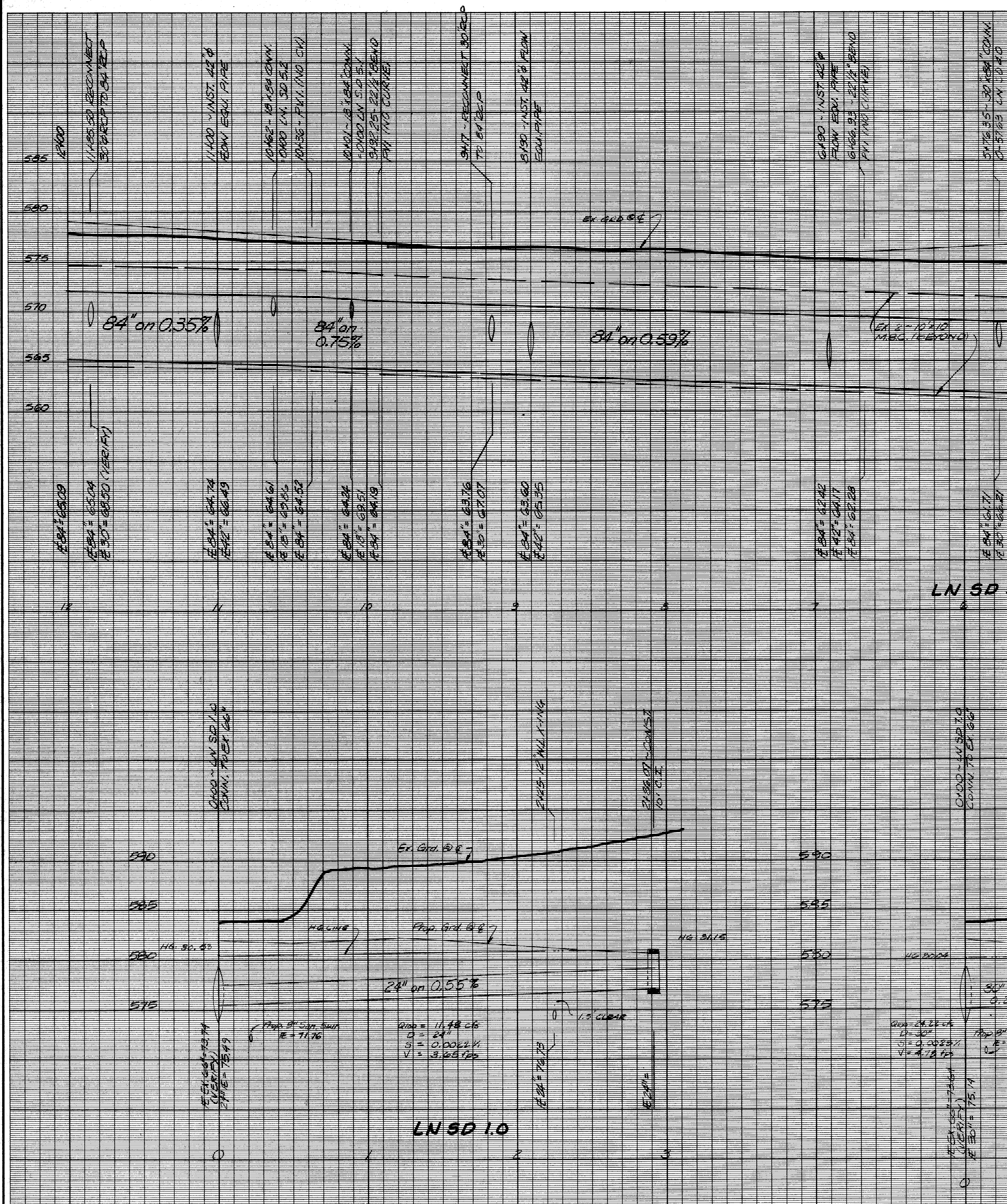


STORM SEWER PROFILES						
LN SD 3.0, 3.1, 4.0, 4.1, 5.3, 6.0, 6.1, & 8.0						
KMART No. 4885						
TOWN OF ADDISON, TEXAS						
LAWRENCE A. CATES & ASSOC. CONSULTING ENGINEERS DALLAS, TEXAS						
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LAC	LAC	4/07/93	H: 1" = 40' V: 1" = 6'	DP	9102	C-13

6-9-93 Increased Pipe Size LN SD 4.0 Rev. 5044.42
 5-21-93 - PUGH CITY COMMENTS

ANCHOR SUPPLIES

D/P



BENCH MARK:

1. CORNER OF EXISTING CURB INLET LOCATED ON SOUTH SIDE OF BELT LINE ROAD. INLET LOCATED 5' WEST OF THE INTERSECTION OF BELT LINE ROAD AND BUSINESS AVENUE.

ELEV. 573.06'

BENCHMARK:

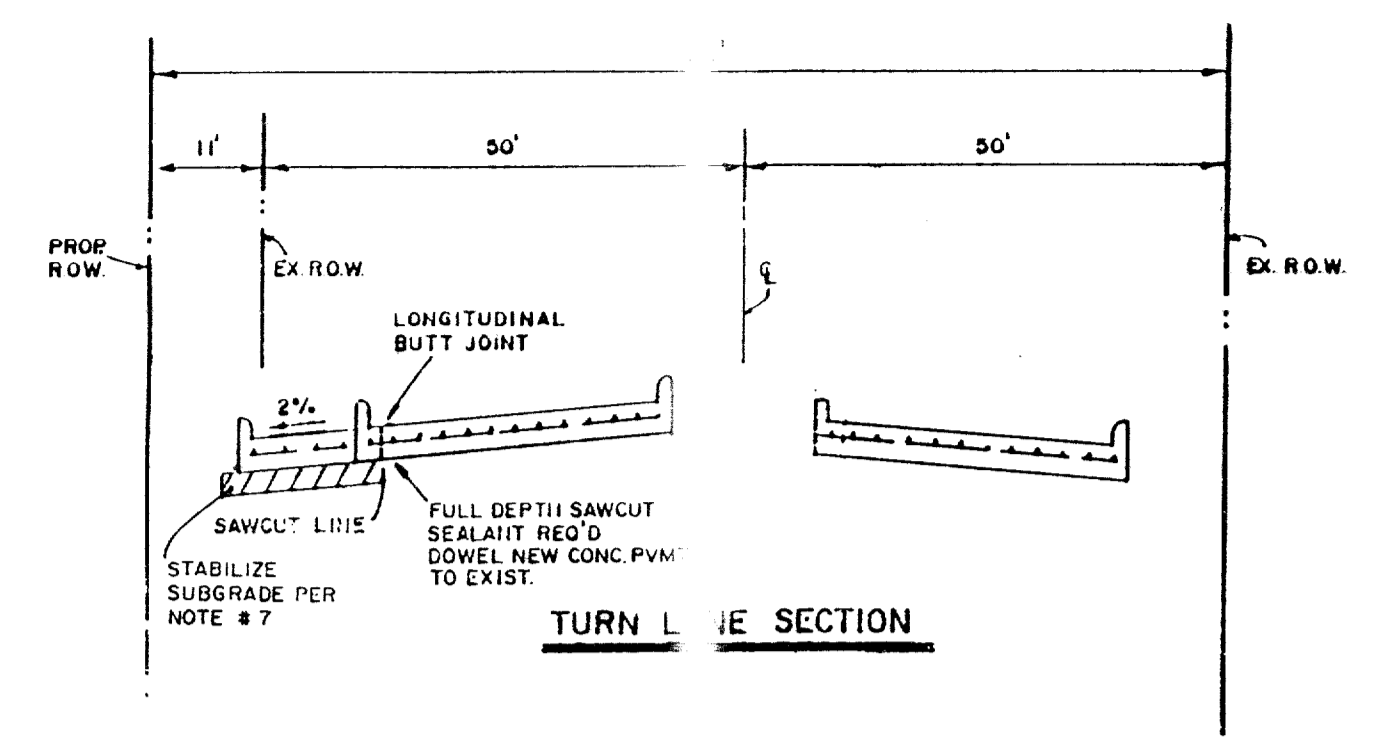
"□" CUT ON STORM SEWER INLET ON SOUTH SIDE OF BELT LINE ROAD 70' WEST OF COMMERCIAL DRIVE.

ELEV. 580.56'

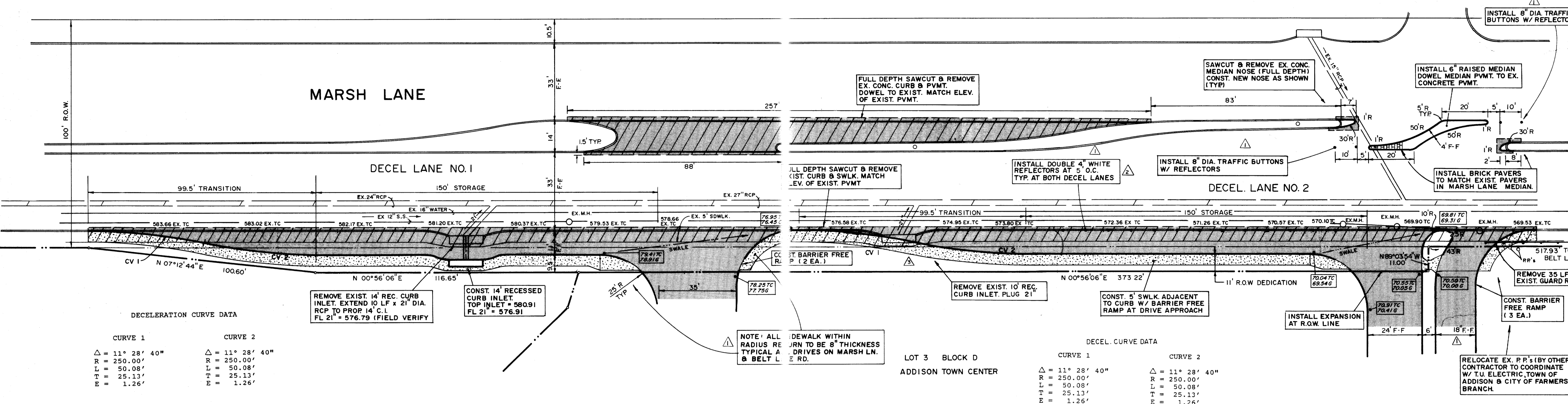
STORM SEWER PROFILES					
LN. SD 1.0, 5.0 & 7.0					
KMAT No. 4885					
TOWN OF ADDISON, TEXAS					
LAWRENCE A. CATES & ASSOC. CONSULTING ENGINEERS DALLAS, TEXAS					
DESIGN	DRAWN	DATE	SCALE	NOTES	NO.
LAC	LAC	4/07/93	H: 1"=40' V: 1"=6'	D.P.	91012
					C-14

GENERAL NOTES

- ALL CURBS TO BE PLACED INTEGRAL WITH PAVEMENT AND SHALL MEET THE SAME COMPRESSIVE STRENGTH AS THE PROPOSED CONCRETE PAVEMENT.
- ARRANGEMENT OF JOINTS SHALL MATCH JOINTS IN EXISTING PAVEMENT.
- ALL BAR LAPS SHALL BE 30" DIAMETERS.
- BAR CHAIRS SHALL BE FURNISHED.
- CROSS SLOPE OF PROPOSED TURN LANE WILL BE 1/4" PER FOOT.
- CONCRETE PAVEMENT FOR TURN LANE WILL BE 8" THICK, 3,600 PSI COMPRESSIVE STRENGTH AT 28 DAYS WITH A MIXTURE THAT IS MINIMUM 5.5 SACKS PER CUBIC YARDS. REINFORCEMENT WILL BE #3 BARS @ 18" O.C.M.
- SUBGRADE WILL BE SCARIFIED TO A DEPTH OF 6" AND RECOMPACTED TO 95% STANDARD PROCTOR DENSITY. SUBGRADE TO BE STABILIZED WITH 6% BY WEIGHT OF HYDRATED LIME. SUBGRADE SHALL EXTEND 1' BACK OF PROPOSED CURB. 6" CTB MAY BE ALLOWED AS ALTERNATE TO LIME STABILIZATION.
- ALL JOINTS IN CONCRETE PAVEMENT TO BE SEALED WITH OAS5 ASPHALT OR RUBBER BASED COMPOUND.
- INSTALLATION OF DRIVE APPROACHES, SIDEWALKS, RIGHT-TURN LANE AND MEDIAN IMPROVEMENTS SHALL MEET TOWN OF ADDISON STANDARDS.
- RELOCATION OF ANY TOWN OF ADDISON OR FARMERS BRANCH IRRIGATION FACILITIES IS RESPONSIBILITY OF CONTRACTOR.



NOTE: MEDIAN RECONSTRUCTION ON MARSH LANE TO BE COMPLETED PRIOR TO START OF CONSTRUCTION ON DECEL. LANE NO.1 OR NO.2



DECELERATION CURVE DATA

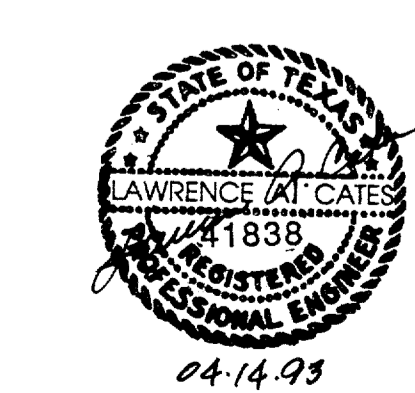
CURVE 1	CURVE 2
Δ = 11° 28' 40"	Δ = 11° 28' 40"
R = 250.00'	R = 250.00'
L = 50.08'	L = 50.08'
T = 25.13'	T = 25.13'
E = 1.26'	E = 1.26'

DECEL. CURVE DATA

CURVE 1	CURVE 2
Δ = 11° 28' 40"	Δ = 11° 28' 40"
R = 250.00'	R = 250.00'
L = 50.08'	L = 50.08'
T = 25.13'	T = 25.13'
E = 1.26'	E = 1.26'

BENCHMARK:
N.W. CORNER OF EXISTING CURB SOUTH SIDE OF BELT LINE ROAD 575' WEST OF THE INTERSECTION OF BELT LINE ROAD AND BUSINESS AVENUE.
ELEV. 573.06'

BENCHMARK:
" " CUT ON STORM SEWER INLET ON SOUTH SIDE OF BELT LINE ROAD 70'± WEST OF COMMERCIAL DRIVE.
ELEV. 580.56'



AS-BUILTS
I CERTIFY THIS PROJECT WAS CONSTRUCTED IN GENERAL CONFORMANCE WITH THESE CONSTRUCTION PLANS AND WILL FUNCTION AS DESIGNED.

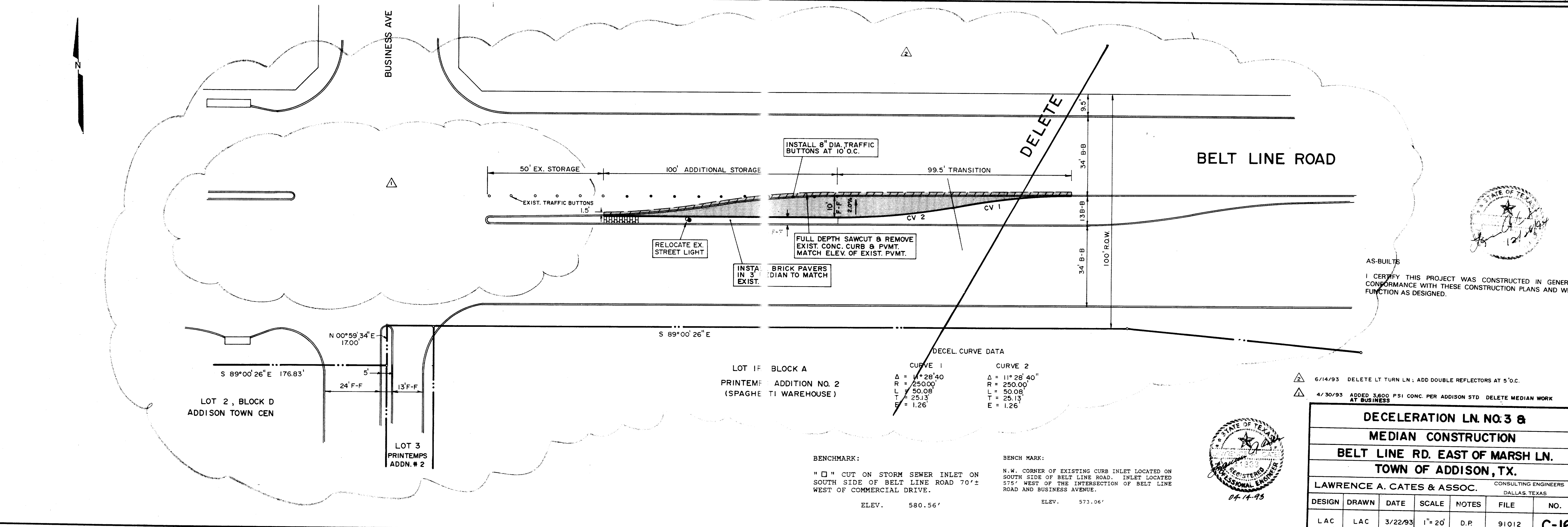
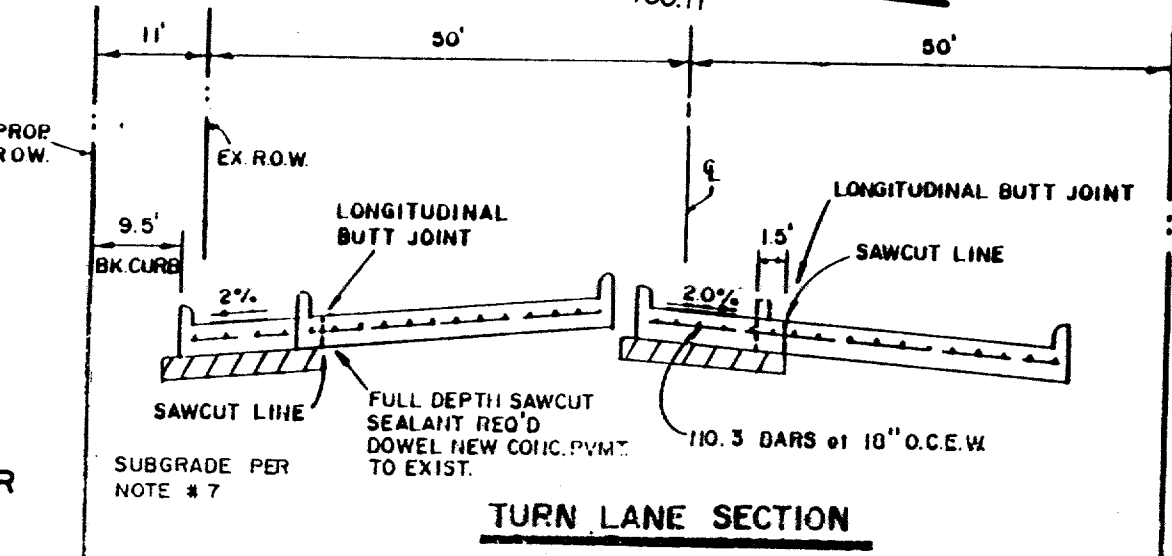
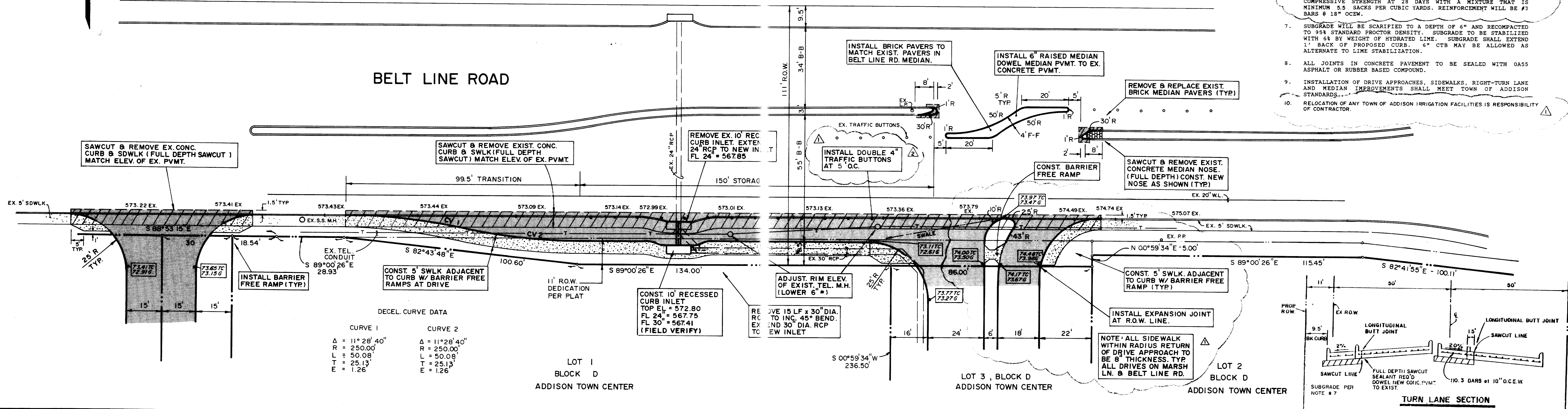
- REV 9/3/93 DELETE 14" C.I.
- REV 6/14/93 ADD DOUBLE REFLECTORS AT 5' O.C.
- REV 4/30/93 ADDED 3,600 PSI CONC. PER ADDISON STD.

DECEL. LANES NO. 1 & 2 & MEDIAN CONSTRUCTION						
MARSH LN. SOUTH OF BELT LINE RD.						
TOWN OF ADDISON, TX.						
LAWRENCE A. CATES & ASSOC.					CONSULTING ENGINEERS DALLAS, TEXAS	
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LAC	LAC	3/22/93	1"=20'	D.P.	91012	C-15

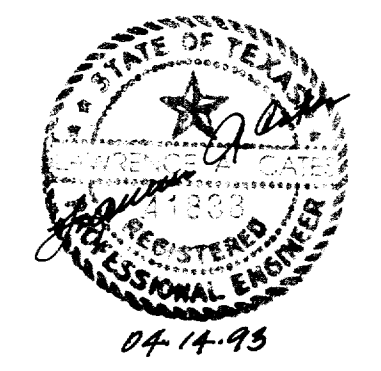
GENERAL NOTES

1. ALL CURBS TO BE PLACED INTEGRAL WITH PAVEMENT AND SHALL MEET THE SAME COMPRESSIVE STRENGTH AS THE PROPOSED CONCRETE PAVEMENT.
2. ARRANGEMENT OF JOINTS SHALL MATCH JOINTS IN EXISTING PAVEMENT.
3. ALL BAR LAPS SHALL BE 30" DIAMETERS.
4. BAR CHAIRS SHALL BE FURNISHED.
5. CROSS SLOPE OF PROPOSED TURN LANE WILL BE 1/4" PER FOOT.
6. CONCRETE PAVEMENT FOR TURN LANE WILL BE 8" THICK, 3,600 PSI COMPRESSIVE STRENGTH AT 28 DAYS WITH A MIXTURE THAT IS MINIMUM 2.5 SACKS PER CUBIC YARD. REINFORCEMENT WILL BE #3 BARS @ 18" O.C.W.
7. SUBGRADE WILL BE SCARIFIED TO A DEPTH OF 6" AND RECOMPACTED TO 95% STANDARD PROCTOR DENSITY. SUBGRADE TO BE STABILIZED WITH 6% BY WEIGHT OF HYDRATED LIME. SUBGRADE SHALL EXTEND 1' BACK OF PROPOSED CURB. 5" CTB MAY BE ALLOWED AS ALTERNATE TO LIME STABILIZATION.
8. ALL JOINTS IN CONCRETE PAVEMENT TO BE SEALED WITH GASS ASPHALT OR RUBBER BASED COMPOUND.
9. INSTALLATION OF DRIVE APPROACHES, SIDEWALKS, RIGHT-TURN LANE AND MEDIAN IMPROVEMENTS SHALL MEET TOWN OF ADDISON STANDARDS.
10. RELOCATION OF ANY TOWN OF ADDISON IRRIGATION FACILITIES IS RESPONSIBILITY OF CONTRACTOR.

NOTE: MEDIAN WORK TO BEGIN AFTER COMPLETION OF DECEL. LANE

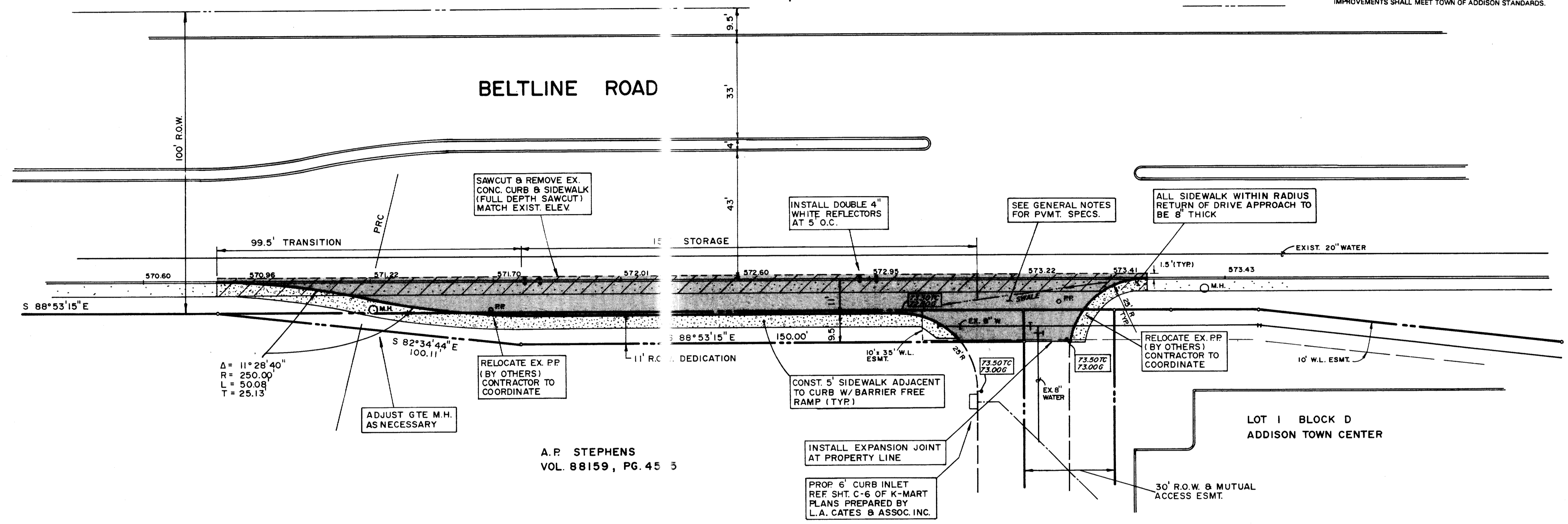
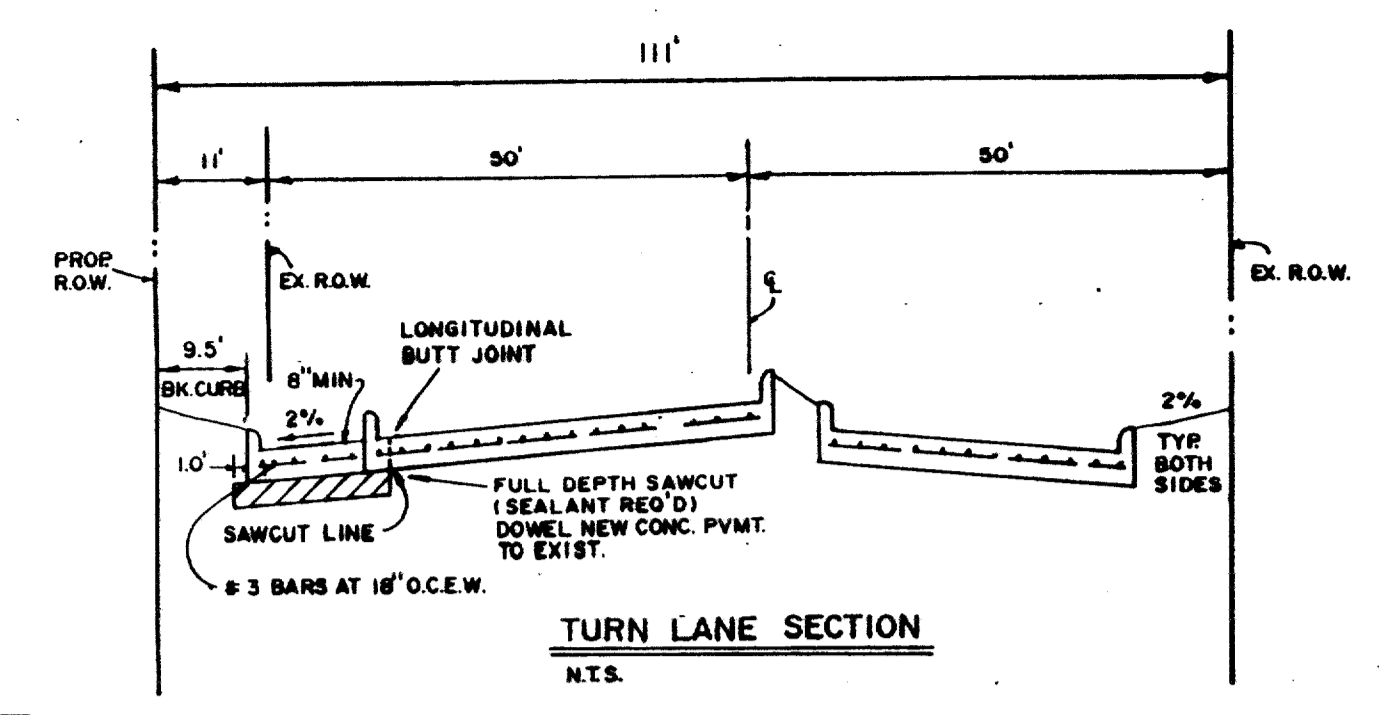


DECELERATION LN. NO. 3 & MEDIAN CONSTRUCTION						
BELT LINE RD. EAST OF MARSH LN. TOWN OF ADDISON, TX.						
LAWRENCE A. CATES & ASSOC. CONSULTING ENGINEERS DALLAS, TEXAS						
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LAC	LAC	3/22/93	1" = 20'	D.P.	91012	C-16



GENERAL NOTES

1. ALL CURBS TO BE PLACED INTEGRAL WITH PAVEMENT AND SHALL MEET THE SAME COMPRESSIVE STRENGTH AS THE PROPOSED CONCRETE PAVEMENT.
2. ARRANGEMENT OF JOINTS SHALL MATCH JOINTS IN EXISTING PAVEMENT.
3. ALL BAR LAPS SHALL BE 30" DIAMETERS.
4. BAR CHAIRS SHALL BE FURNISHED.
5. CROSS SLOPE OF PROPOSED TURN LANE WILL BE 1/4" PER FOOT.
6. CONCRETE PAVEMENT FOR TURN LANE WILL BE 8" THICK, 3600 PSI COMPRESSIVE STRENGTH AT 28 DAYS WITH A MIXTURE THAT IS MINIMUM FIVE SACKS PER CUBIC YARD. REINFORCEMENT WILL BE #3 BARS AT 18" O.C.E.W.
7. SUBGRADE WILL BE SCARIFIED TO A DEPTH OF 6" AND RECOMPACTED TO 95% STANDARD PROCTOR DENSITY. SUBGRADE TO BE STABILIZED WITH 6% BY WEIGHT OF HYDRATED LIME. SUBGRADE SHALL EXTEND 1 FOOT BACK OF PROPOSED CURB. 6" CTB MAY BE ALLOWED AS ALTERNATE TO LIME STABILIZATION.
8. ALL JOINTS IN CONCRETE PAVEMENT TO BE SEALED WITH 0A55 ASPHALT OR RUBBER BASED COMPOUND.
9. INSTALLATION OF DRIVE APPROACHES, SIDEWALKS, RIGHT-TURN LANE AND MEDIAN IMPROVEMENTS SHALL MEET TOWN OF ADDISON STANDARDS.



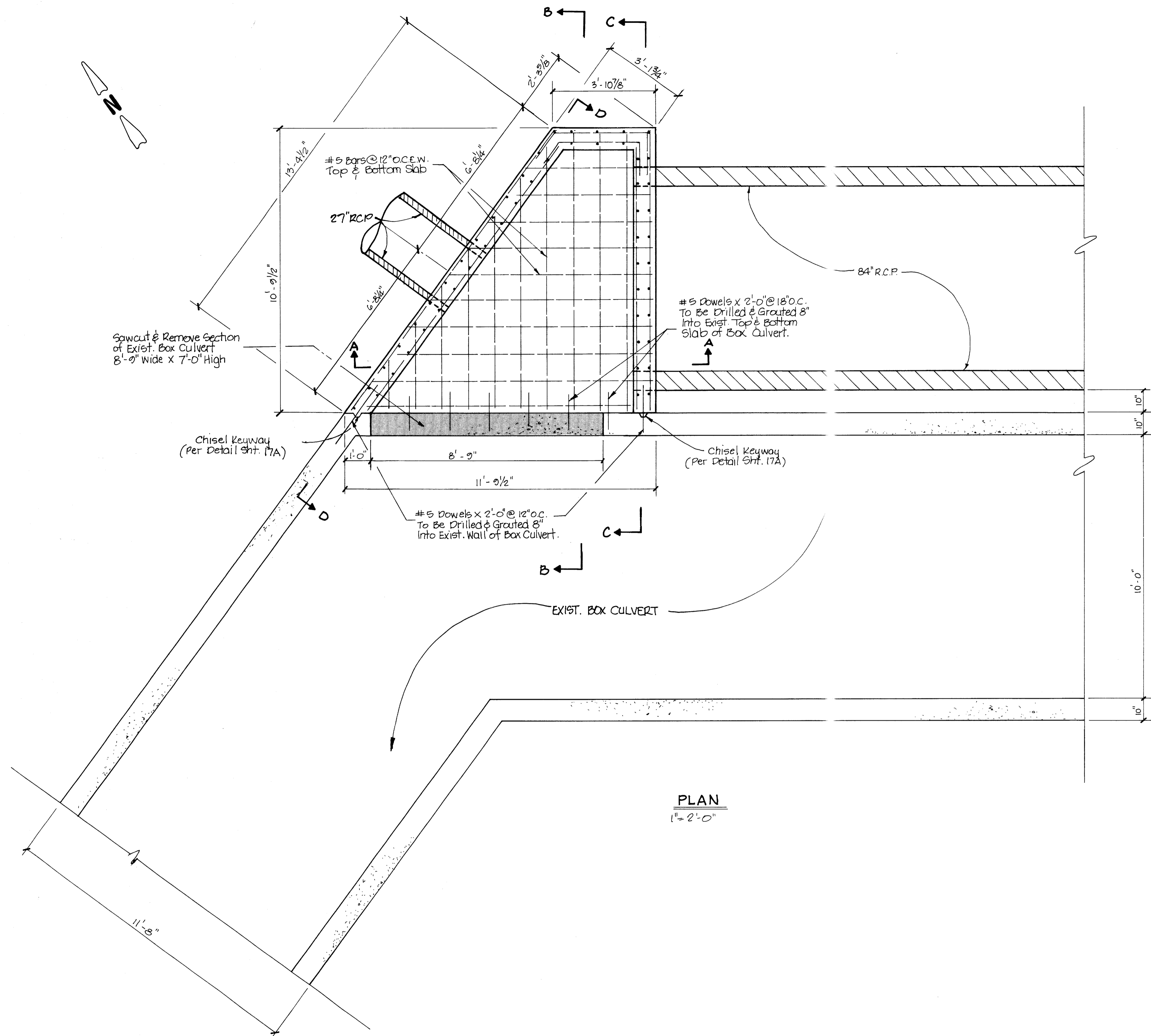
A = 11° 25' 40"
 R = 250.00'
 L = 500.8'
 T = 25.13'

A.P. STEPHENS
 VOL. 88159, PG. 45 5



I CERTIFY THIS PROJECT WAS CONSTRUCTED IN GENERAL ACCORDANCE WITH THESE CONSTRUCTION PLANS AND ALL WORKMAN AS DESIGNED.

DECELERATION LANE						
BELTLINE RD. EAST OF MARSH LN.						
KMART / STEPHENS APPROACH						
TOWN OF ADDISON						
LAWRENCE A. CATES & ASSOC.						CONSULTING ENGINEERS DALLAS, TEXAS
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LAC	LAC	8/16/93	1" = 20'		92023	C-16A



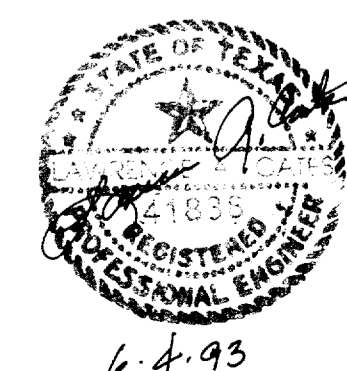
PLAN
1" = 2'-0"

- GENERAL NOTES
1. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF $f'c = 3000$ PSI AT 28 DAYS.
 2. REINFORCING STEEL $F_y = 40$ KSI.
 3. BAR LAPS SHALL BE 30" DIAMETERS.
 4. EXPOSED EDGES AND CORNERS TO BE CHAMFERED 1/4".

AS-BUILTS
I CERTIFY THIS PROJECT WAS CONSTRUCTED IN GENERAL CONFORMANCE WITH THESE CONSTRUCTION PLANS AND WILL FUNCTION AS DESIGNED.

• DENOTES CONCRETE REMOVAL

REV. 6-10-93 Added 27" RCP TO Junc. Box



84" RCP JUNCTION BOX DETAILS						
KMART NO. 4885						
BELTLINE AND MARSH						
ADDISON, TEXAS						
LAWRENCE A. CATES & ASSOC.					CONSULTING ENGINEERS DALLAS, TEXAS	
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LAC	LAC	6-4-93	1" = 2'-0"		91012	C-17

