

CIVIL PLANS FOR CONSTRUCTION OF
PAVING, STREETScape AND UTILITY IMPROVEMENTS

ADDISON CIRCLE

PUBLIC INFRASTRUCTURE

PHASE II



T O W N O F
ADDISON

OWNER:

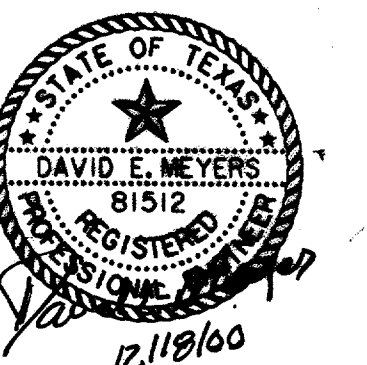
TOWN OF ADDISON
DEPARTMENT OF PUBLIC WORKS
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TX. REG. NO. 1594

RECORD
DRAWING

THE SEAL APPEARING ON THIS
DOCUMENT WAS AUTHORIZED BY
DAVID E. MEYERS, P.E. 81512
ON OCTOBER 3, 1997.

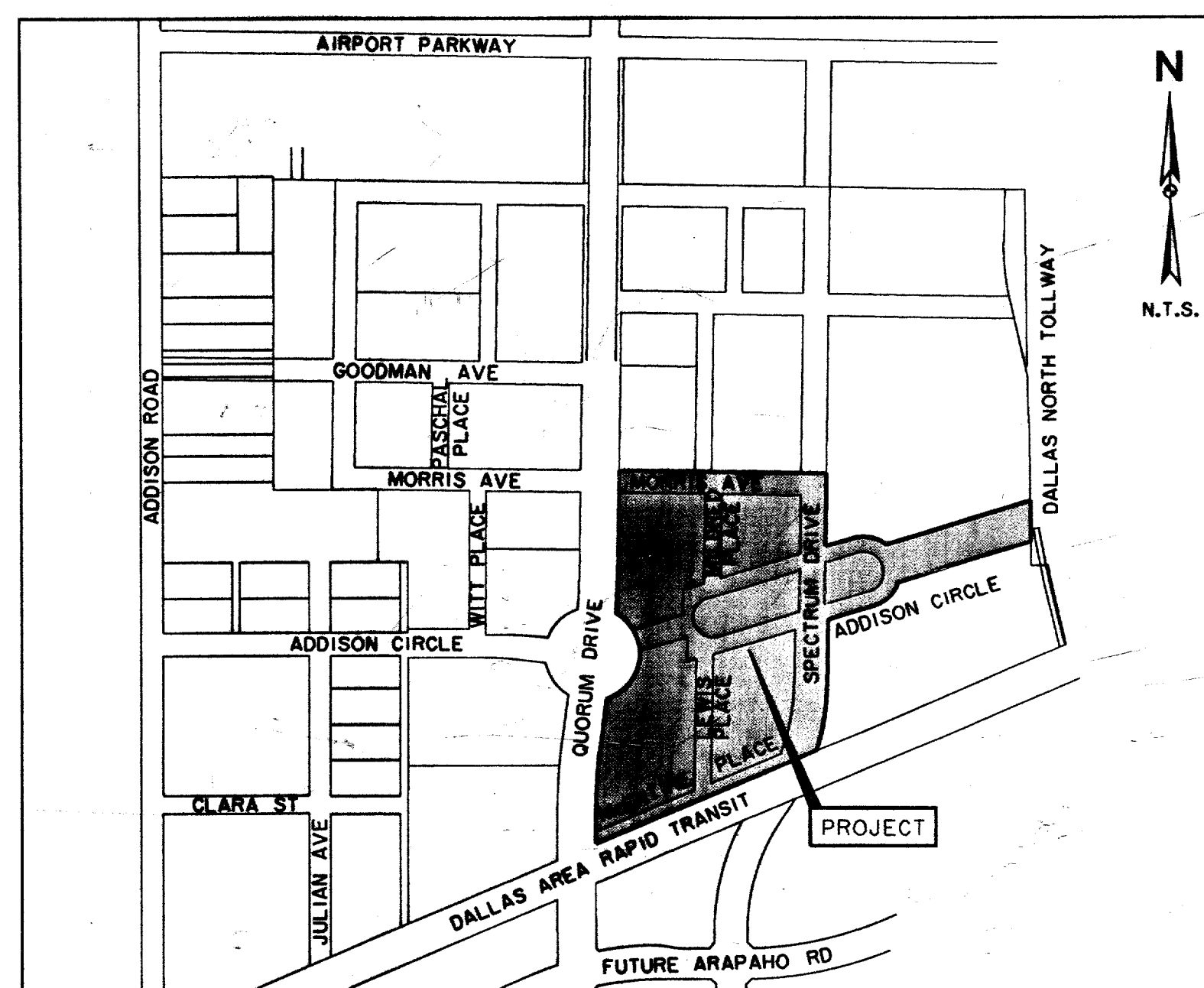


RECORD DRAWINGS

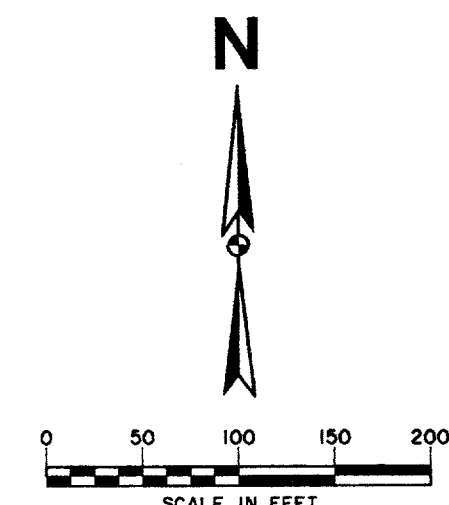
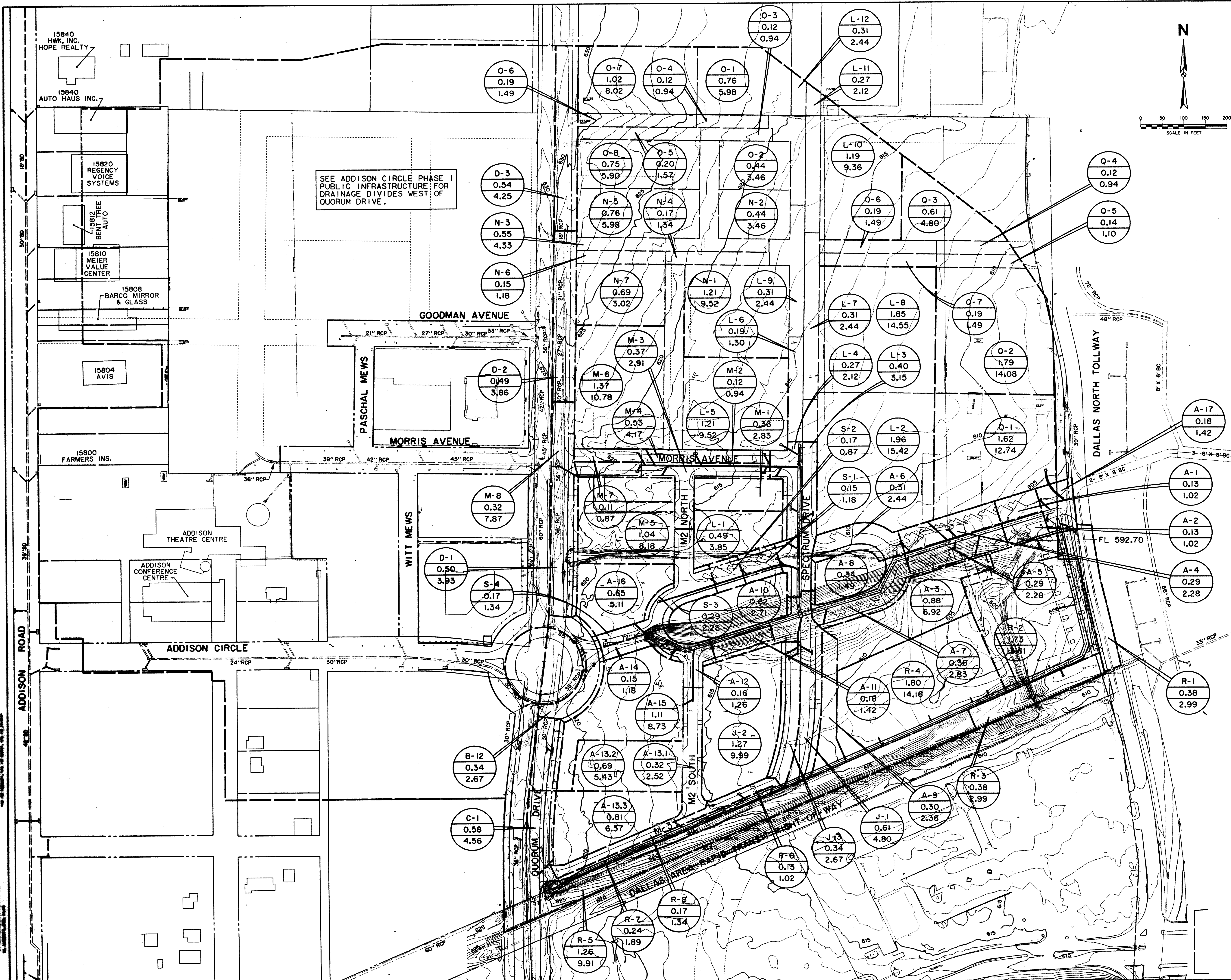
11/17/00

THIS SET OF DRAWINGS HAS BEEN MODIFIED FROM THE ORIGINAL DESIGN DRAWINGS TO REFLECT THE FIELD CHANGES THAT OCCURRED DURING CONSTRUCTION WHICH WERE DOCUMENTED AND FINISHED TO THE ENGINEER BY THE CONTRACTOR. BASED ON THIS INFORMATION AND THE ENGINEER'S OBSERVATION OF CERTAIN CONSTRUCTION ACTIVITIES, TO THE BEST OF THE ENGINEER'S KNOWLEDGE AND BELIEF, THE PROJECT IS CONSTRUCTED IN CONFORMANCE WITH THE PLANS AND SPECIFICATIONS AND WILL FUNCTION AS DESIGNED.

SHEET NO.	INDEX OF DRAWINGS
	COVER SHEET
HC1	HORIZONTAL CONTROL PLAN
P1-P2	PAVING TYPICAL SECTIONS
P3-P4	RECOMMENDED UTILITY LOCATIONS
P5	SIGNAGE AND STRIPING PLAN
P6	TRAFFIC SIGN DETAILS
P7	PAVING SITE PLAN
P8-P20	PAVING PLANS & PROFILES
P21-P23	PAVING DETAILS
P24	SLEEVING PLAN
SP1-SP8	SURFACE PATTERNING PLANS
SP9	SURFACE PATTERNING DETAILS
ST1	STREETSCAPE SITE PLAN
ST2-ST9	STREETSCAPE PLANS
ST10-ST14	STREETSCAPE, LIGHT & SUBDRAIN DETAILS
SW1-SW2	DRAINAGE AREA MAP
SW3-SW9	STORM WATER CALCULATIONS
SW10	STORM WATER SITE PLAN
SW11-SW25	STORM WATER PLANS & PROFILES
SW26-SW28	STORM WATER DETAILS
W1	WATER & WASTEWATER SITE MAP
W2-W13	WATER PLANS & PROFILES
W14-W15	WATER DETAILS
WW1-WW5	WASTEWATER PLANS & PROFILES
WW6-WW7	WASTEWATER DETAILS
PC1	POLLUTION CONTROL PLAN
PC2	POLLUTION CONTROL DETAILS
E1	ELECTRICAL DUCT BANK SITE PLAN
E2-E11	ELECTRICAL DUCT BANK PLANS & PROFILES
E12-E20	ELECTRICAL DUCT BANK DETAILS
E21-E23	TREE LIGHT & STREET LIGHT POWER PLANS & DETAILS
PF1-PF8	PLANTING & FURNITURE PLANS
PF9	PLANTING DETAILS
IR1-IR8	IRRIGATION PLANS
IR9	IRRIGATION DETAILS



LOCATION MAP



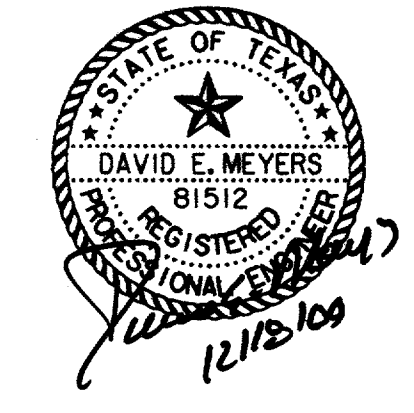
- NOTES:
- FOR ADDITIONAL INFORMATION REGARDING OUTFALL CAPACITY, OFFSITE FLOWS AND OTHER DETAILS THAT MAY BE RELEVANT TO THIS DRAINAGE SYSTEM, SEE "MASTER INFRASTRUCTURE REPORT FOR ADDISON CIRCLE" DATED DECEMBER 18, 1995, PREPARED BY HUITT-ZOLLARS, INC.
 - THIS PLAN ILLUSTRATES THE PROBABLE DRAINAGE DIVIDES FOR THE ULTIMATE BUILDOUT CONDITION WITHIN AND UPSTREAM OF ADDISON CIRCLE PHASE I. THE PATTERNS OF FLOW FOR THE INTERIM CONDITION (PRIOR TO BUILDOUT) ARE INDICATED ON SHEET SW2 OF THIS SET. THE PERMANENT DRAINAGE SYSTEM HAS BEEN DESIGNED BASED ON FULLY DEVELOPED CONDITIONS. TEMPORARY INLETS AND SWALES HAVE BEEN SIZED FOR UNDEVELOPED (OR "EXISTING") FLOWS PER SHEET SW2.
 - FOR RUNOFF AND INLET CALCULATIONS, SEE SHEETS SW3 THRU SW9.
 - LINE 'M' AND LATERAL 'M-6' ARE SIZED TO CONVEY RUNOFF FROM AREA 'N-7' IN THE EVENT FUTURE DEVELOPMENT DIFFERS FROM WHAT IS ANTICIPATED.
 - FUTURE LINE 'Q' IS SIZED TO CONVEY RUNOFF FROM AREA 'L-9' IN THE EVENT FUTURE DEVELOPMENT DIFFERS FROM WHAT IS ANTICIPATED.
 - AREA 'L-2' CAN ALSO DRAIN TO A STUB PROVIDED FROM LINE 'A' AS FUTURE DEVELOPMENT DICTATES.
 - EXISTING STORM SEWER LOCATIONS AND SIZES WERE OBTAINED FROM RECORD DRAWINGS FROM THE TOWN OF ADDISON. ACTUAL LOCATION IN THE FIELD MAY VARY FROM THE PLANS.

--- DRAINAGE AREA DIVIDE
 --- DIRECTION OF SURFACE FLOW

RUNOFF CRITERIA
 C=0.50 FOR AREAS N7, A8 & A10
 C=0.90 FOR REMAINING AREAS
 MINIMUM $t_c=10.00$ MINUTES
 $i_{100}=8.74$ in/hr

A-1 DRAINAGE AREA DESIGNATION
 0.32 TOTAL DRAINAGE AREA (ACRES) AT POINT OF CONCENTRATION
 2.52 Q100 (cfs)

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY DAVID E. MEYERS, P.E. 81512



RECORD DRAWING

DATE	DESCRIPTION	REF NO.				
10/3/97	ISSUED FOR CONSTRUCTION	N/A				
7/14/97	ISSUED FOR BID	N/A				
DRAINAGE AREA MAP PROPOSED & FUTURE DEVELOPMENT ADDISON CIRCLE PHASE II PUBLIC INFRASTRUCTURE TOWN OF ADDISON, TEXAS						
Huitt-Zollars, Inc./Engineering/Architecture Dallas, Fort Worth, Houston, El Paso, Phoenix, Tustin, Ontario						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZ1	HZ1	DEM	1"=100'	JUN. 97	01-1822-21	SWI

INLET CALCULATIONS

INLET NO.	LOCATION	DESIGN STORM FREQ. (YRS.)	TIME OF CONC. (MIN.)	INTENSITY "1-100" (INCHES/ HOUR)	RUNOFF COEFF. "C"	AREA "A" (ACRES)	"Q-100" FOR AREA (CFS)	CARRY-OVER FROM UPSTREAM (CFS)	TOTAL GUTTER FLOW (CFS)	GUTTER CAPACITY ONE DRY LANE (CFS)	GUTTER SLOPE (FT/FT)	STREET CROSS SLOPE (FT/FT)	ACTUAL GUTTER FLOW DEPTH (FT)	CAPACITY PER FOOT OF INLET (FT)	REQUIRED LENGTH OF INLET (FT)	SELECTED LENGTH OF INLET (FT)	TYPE	CARRY-OVER TO DOWNSTREAM (CFS)	
LINE "O" - FUTURE RESIDENTIAL STREET R1																			
O-1	FUTURE BLDG.	100	10.00	8.74	0.90	0.76	5.98	0.00	5.98	NA	NA	NA	NA	NA	NA	21" STUB	NA	NA	
O-2	FUTURE BLDG.	100	10.00	8.74	0.90	0.44	3.46	0.00	3.46	NA	NA	NA	NA	NA	NA	21" STUB	NA	NA	
O-3	STREET R1	100	10.00	8.74	0.90	0.12	0.94	0.00	0.94	5.18	0.0150	PAR	NA	NA	3	6	MOD REC	0.00	
O-4	STREET R1	100	10.00	8.74	0.90	0.12	0.94	0.00	0.94	5.18	0.0150	PAR	NA	NA	3	6	MOD REC	0.00	
O-5	STREET R1	100	10.00	8.74	0.90	0.20	1.57	0.00	1.57	5.18	0.0150	PAR	NA	NA	4	6	MOD REC	0.00	
O-6	STREET R1	100	10.00	8.74	0.90	0.19	1.49	0.00	1.49	5.18	0.0150	PAR	NA	NA	4	6	MOD REC	0.00	
O-7	FUTURE BLDG.	100	10.00	8.74	0.90	1.02	8.02	0.00	8.02	NA	NA	NA	NA	NA	NA	21" STUB	NA	NA	
O-8	FUTURE BLDG.	100	10.00	8.74	0.90	0.75	5.90	0.00	5.90	NA	NA	NA	NA	NA	NA	21" STUB	NA	NA	
LINE "O" - FUTURE RESIDENTIAL STREET R2																			
Q-1	FUTURE BLDG.	100	10.00	8.74	0.90	1.62	12.74	0.00	12.74	NA	NA	NA	NA	NA	NA	21" STUB	NA	NA	
Q-2	FUTURE BLDG.	100	10.00	8.74	0.90	1.79	14.08	0.00	14.08	NA	NA	NA	NA	NA	NA	21" STUB	NA	NA	
Q-3	FUTURE BLDG.	100	10.00	8.74	0.90	0.61	4.80	0.00	4.80	NA	NA	NA	NA	NA	NA	21" STUB	NA	NA	
Q-4	STREET R2	100	10.00	8.74	0.90	0.12	0.94	0.00	0.94	5.18	0.0150	PAR	NA	NA	3	6	MOD REC	0.00	
Q-5	STREET R2	100	10.00	8.74	0.90	0.14	1.10	0.00	1.10	5.18	0.0150	PAR	NA	NA	3	6	MOD REC	0.00	
Q-6	STREET R2	100	10.00	8.74	0.90	0.19	1.49	0.00	1.49	5.18	0.0150	PAR	NA	NA	3	6	MOD REC	0.00	
Q-7	STREET R2	100	10.00	8.74	0.90	0.19	1.49	0.00	1.49	5.18	0.0150	PAR	NA	NA	3	6	MOD REC	0.00	
LINE "R" - FUTURE RESIDENTIAL STREET M3/TOLLWAY COMMERCIAL																			
R-1	DALLAS PKWY.	100	10.00	8.74	0.90	0.38	2.99	0.00	2.99	15.75	0.0200	0.0208	0.20	0.26	11	14	REC	0.00	
R-2	FUTURE BLDG.	100	10.00	8.74	0.90	1.73	13.61	0.00	13.61	NA	NA	NA	NA	NA	NA	21" STUB	NA	NA	
R-3	RAILROAD SWALE	100	10.00	8.74	0.90	0.38	2.99	0.00	2.99	NA	NA	NA	NA	NA	4' X 4'	4' X 4'	DROP	NA	
R-4	FUTURE BLDG.	100	10.00	8.74	0.90	1.80	14.16	0.00	14.16	NA	NA	NA	NA	NA	NA	21" STUB	NA	NA	
R-5	RAILROAD SWALE	100	10.00	8.74	0.90	1.26	9.91	0.00	9.91	NA	NA	NA	NA	NA	4' X 4'	4' X 4'	DROP	0.00	
R-6	STREET M3	100	10.00	8.74	0.90	0.13	1.02	0.00	1.02	2.48	0.0120	PAR	NA	NA	5	6	MOD REC	0.00	
R-7	STREET M3	100	10.00	8.74	0.90	0.24	1.89	0.00	1.89	2.48	0.0120	PAR	NA	NA	4	6	MOD REC	0.00	
R-8	STREET M3	100	10.00	8.74	0.90	0.17	1.34	0.00	1.34	2.48	0.0120	PAR	NA	NA	4	6	MOD REC	0.00	
LINE "S" - ADDISON CIRCLE																			
S-1	ADDISON CIRCLE	100	10.00	8.74	0.90	0.15	1.18	3.32	4.50	2.05	0.0130	0.0208	0.25	0.55	8	8	STD	0.00	
S-2	ADDISON CIRCLE	100	10.00	8.74	0.90	0.11	0.87	0.17	1.04	2.05	0.0130	0.0208	0.14	NA	3 GRATE	3 GRATE	STD	0.00	
S-3	ADDISON CIRCLE	100	10.00	8.74	0.90	0.29	2.28	0.00	2.28	2.05	0.0130	0.0208	0.19	NA	6 GRATE	4 GRATE	STD	0.17	
S-4	ADDISON CIRCLE	100	10.00	8.74	0.90	0.17	1.34	0.00	1.34	6.63	0.0130	0.0208	0.16	0.47	3	6	STD	0.00	

STORM WATER RUNOFF CALCULATIONS

AREA NO.	Tc (MIN.)	INTENSITY "1-100" (IN./HR)	RUNOFF COEFF. "C"	AREA "A" (ACRES)	STORM RUNOFF "Q-100"
A-1	10.00	8.74	0.90	0.13	1.02
A-2	10.00	8.74	0.90	0.13	1.02
A-3	10.00	8.74	0.90	0.88	6.92
A-4	10.00	8.74	0.90	0.29	2.28
A-5	10.00	8.74	0.90	0.29	2.28
A-6	10.00	8.74	0.90	0.31	2.44
A-7	10.00	8.74	0.90	0.36	2.83
A-8	10.00	8.74	0.50	0.34	1.49
A-9	10.00	8.74	0.90	0.30	2.36
A-10	10.00	8.74	0.50	0.62	2.71
A-11	10.00	8.74	0.90	0.18	1.42
A-12	10.00	8.74	0.90	0.16	1.26
A-13.1	10.00	8.74	0.90	0.32	2.52
A-13.2	10.00	8.74	0.90	0.69	5.43
A-13.3	10.00	8.74	0.90	0.81	6.37
A-14	10.00	8.74	0.90	0.15	1.18
A-15	10.00	8.74	0.90	1.11	8.73
A-16	10.00	8.74	0.90	0.65	5.11
B-12	10.00	8.74	0.90	0.34	2.67
C-1	10.00	8.74	0.90	0.58	4.56
D-1	10.00	8.74	0.90	0.50	3.93
D-2	10.00	8.74	0.90	0.49	3.85
D-3	10.00	8.74	0.90	0.54	4.25
J-1	10.00	8.74	0.90	0.61	4.80
J-2	10.00	8.74	0.90	1.27	9.99
J-3	10.00	8.74	0.90	0.34	2.67
L-1	10.00	8.74	0.90	0.49	3.85
L-2	10.00	8.74	0.90	1.96	15.42
L-3	10.00	8.74	0.90	0.40	3.15
L-4	10.00	8.74	0.90	0.27	2.12
L-5	10.00	8.74	0.90	1.21	9.52
L-6	10.00	8.74	0.90	0.19	1.49
L-7	10.00	8.74	0.90	0.31	2.44
L-8	10.00	8.74	0.90	1.85	14.55

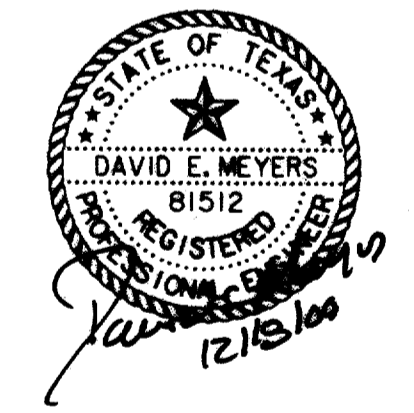
STORM WATER RUNOFF CALCULATIONS

AREA NO.	Tc (MIN.)	INTENSITY "1-100" (IN./HR)	RUNOFF COEFF. "C"	AREA "A" (ACRES)	STORM RUNOFF "Q-100"
L-8	10.00	8.74	0.90	1.85	14.55
L-9	10.00	8.74	0.90	0.31	2.44
L-10	10.00	8.74	0.90	1.19	9.36
L-11	10.00	8.74	0.90	0.27	2.12
L-12	10.00	8.74	0.90	0.31	2.44
M-1	10.00	8.74	0.90	0.36	2.83
M-2	10.00	8.74	0.90	0.12	0.94
M-3	10.00	8.74	0.90	0.37	2.91
M-4	10.00	8.74	0.90	0.53	4.17
M-5	10.00	8.74	0.90	1.04	8.18
M-6	10.00	8.74	0.90	1.37	10.78
M-7	10.00	8.74	0.90	0.11	0.87
M-8	10.00	8.74	0.90	0.32	2.52
N-1	10.00	8.74	0.90	1.21	9.52
N-2	10.00	8.74	0.90	0.44	3.46
N-3	10.00	8.74	0.90	0.55	4.33
N-4	10.00	8.74	0.90	0.17	1.34
N-5	10.00	8.74	0.90	0.76	5.98
N-6	10.00	8.74	0.90	0.15	1.18
N-7	10.00	8.74	0.50	0.69	3.02
O-1	10.00	8.74	0.90	0.76	5.98
O-2	10.00	8.74	0.90	0.44	3.46
O-3	10.00	8.74	0.90	0.12	0.94
O-4	10.00	8.74	0.90	0.12	0.94
O-5	10.00	8.74	0.90	0.20	1.57
O-6	10.00	8.74	0.90	0.19	1.49
O-7	10.00	8.74	0.90	1.02	8.02
O-8	10.00	8.74	0.90	0.75	5.90
Q-1	10.00	8.74	0.90	1.62	12.74
Q-2	10.00	8.74	0.90	1.79	14.08
Q-3	10.00	8.74	0.90	0.61	4.80
Q-4	10.00	8.74	0.90	0.12	0.94
Q-5	10.00	8.74	0.90	0.14	1.10
Q-6	10.00	8.74	0.90	0.19	1.49

STORM WATER RUNOFF CALCULATIONS

AREA NO.	Tc (MIN.)	INTENSITY "1-100" (IN./HR)	RUNOFF COEFF. "C"	AREA "A" (ACRES)	STORM RUNOFF "Q-100"
Q-7	10.00	8.74	0.90	0.19	1.49
R-1	10.00	8.74	0.90	0.38	2.99
R-2	10.00	8.74	0.90	1.73	13.61
R-3	10.00	8.74	0.90	0.38	2.99
R-4	10.00	8.74	0.90	1.80	14.16
R-5	10.00	8.74	0.90	1.26	9.91
R-6	10.00	8.74	0.90	0.13	1.02
R-7	10.00	8.74	0.90	0.24	1.89
R-8	10.00	8.74	0.90	0.17	1.34
S-1	10.00	8.74	0.90	0.15	1.18
S-2	10.00	8.74	0.90	0.11	0.87
S-3	10.00	8.74	0.90	0.29	2.28
S-4	10.00	8.74	0.90	0.17	1.34

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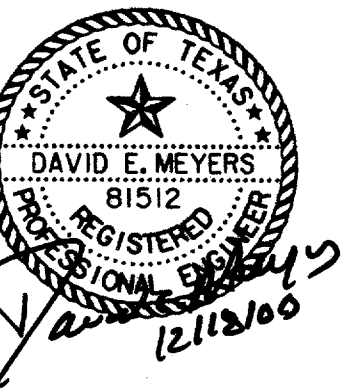
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STORM WATER CALCULATIONS						
INLET & RUNOFF CALCULATIONS						
ADDISON CIRCLE						
PHASE II PUBLIC INFRASTRUCTURE						
TOWN OF ADDISON, TEXAS						
Hull-Zollars, Inc./Engineering/Architecture Dallas, Fort Worth, Houston, El Paso, Phoenix, Tustin, Ontario						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	DEM	N.T.S.	JUN. 97	01-1822-21	SW4

HYDRAULIC CALCULATIONS

COLLECTION POINT INLETS OR MANHOLES		DISTANCE BETWEEN COLLECTION POINTS	INCREMENTAL DRAINAGE AREA				TIME @ UPSTREAM STATION (MIN.)	INTENSITY "I-100" (IN./HR)	100 YR. STORM RUNOFF "Q"	SLOPE OF HYDRAULIC GRADIENT (FT./FT.)	STORM SEWER SIZE	VELOCITY "V" (F.P.S.)	FLOW TIME IN SEWER (MIN.)	TIME @ DOWNSTREAM STATION (MIN.)	VELOCITY HEAD (FEET)	HYDRAULIC GRADE AT UPSTREAM STATION	HYDRAULIC GRADE AT DOWNSTREAM STATION	HYDRAULIC GRADE AT INLETS	COMMENTS	
UPSTREAM STATION	DOWNSTREAM STATION		INCREM. AREA NO.	AREA "A" (AC.)	RUNOFF COEFF. "C"	INCREM. "CA"														ACCUM. "CA"
LINE 'A'																				
1253.83	1155.00	98.83	NA	44.82	0.88	39.44	39.44	13.42	7.96	313.9	0.0055	72	11.10	0.15	13.57	1.91	610.00	609.45		
1155.00	1141.37	13.63	A-16	0.65	0.90	0.59	40.03	13.57	7.93	317.4	0.0056	72	11.22	0.02	13.59	1.96	609.41	609.33		
1141.37	1105.00	36.37	BEND	NA	0.90	0.00	40.03	13.59	7.92	317.2	0.0056	72	11.22	0.05	13.64	1.95	608.06	607.86		
1105.00	1075.00	30.00	A-15	1.11	0.90	1.00	41.03	13.64	7.91	324.7	0.0059	72	11.48	0.04	13.69	2.05	607.77	607.59		
1075.00	1060.05	14.95	A-14	0.15	0.90	0.14	41.16	13.69	7.91	325.4	0.0059	72	11.51	0.02	13.71	2.06	607.58	607.49		
1060.05	1037.00	23.05	BEND	NA	0.90	0.00	41.16	13.71	7.90	325.2	0.0059	72	11.50	0.03	13.74	2.05	606.16	606.02		
1037.00	991.92	45.08	LAT A-13	1.82	0.90	1.64	42.80	13.74	7.90	337.9	0.0064	72	11.95	0.06	13.80	2.22	605.86	605.57		
991.92	847.92	144.00	A-12	0.16	0.90	0.14	42.94	13.80	7.88	338.5	0.0064	72	11.97	0.20	14.00	2.23	605.56	604.64		
847.92	815.00	32.92	A-11	0.18	0.90	0.16	43.10	14.00	7.84	338.1	0.0042	78	10.19	0.05	14.06	1.61	604.95	604.81		
815.00	778.19	36.81	A-10	0.62	0.50	0.31	43.41	14.06	7.83	340.1	0.0042	78	10.25	0.06	14.12	1.63	604.79	604.64		
778.19	714.00	64.19	LN. J,L,M,N	23.49	0.89	20.91	64.32	14.12	7.82	503.2	0.0043	90	11.39	0.09	14.21	2.01	600.32	600.04		
714.00	587.91	126.09	A-9	0.30	0.90	0.27	64.59	14.21	7.81	504.1	0.0043	90	11.41	0.18	14.40	2.02	600.03	599.49		
587.91	545.00	42.91	BEND	NA	0.90	0.00	64.59	14.40	7.77	501.9	0.0043	90	11.36	0.06	14.46	2.00	599.50	599.32		
545.00	505.89	39.11	A-8	0.34	0.50	0.17	64.76	14.46	7.76	502.5	0.0043	90	11.37	0.06	14.52	2.01	599.31	599.14		
505.89	472.50	33.39	BEND	NA	0.90	0.00	64.76	14.52	7.75	501.8	0.0043	90	11.36	0.05	14.57	2.00	599.15	599.00		
472.50	462.93	9.57	A-7	0.36	0.90	0.32	65.08	14.57	7.74	503.7	0.0043	90	11.40	0.01	14.58	2.02	598.99	598.95		
462.93	358.02	104.91	A-6	0.31	0.90	0.28	65.36	14.58	7.74	505.7	0.0043	90	11.45	0.15	14.73	2.03	598.93	598.48		
358.02	349.43	8.59	A-5	0.29	0.90	0.26	65.62	14.73	7.71	505.9	0.0043	90	11.45	0.01	14.74	2.04	598.47	598.44		
349.43	298.82	50.61	A-4	0.29	0.90	0.26	65.89	14.74	7.71	507.8	0.0044	90	11.49	0.07	14.82	2.05	598.42	598.20		
298.82	132.11	166.71	A-3	0.88	0.90	0.79	66.68	14.82	7.69	513.0	0.0045	90	11.61	0.24	15.06	2.09	598.16	597.41	PARTIAL FLOW	
132.11	124.03	8.08	A-2	0.13	0.90	0.12	66.79	15.06	7.65	511.0	0.0044	90	11.57	0.01	15.07	2.08	597.42	597.39		
124.03	115.00	9.03	A-1	0.13	0.90	0.12	66.91	15.07	7.65	511.8	0.0044	90	11.58	0.01	15.08	2.08	597.38	597.34	F.L. 90" 589.84	
LAT. 'A-1'																				
35.80	0.00	35.80	A-1	0.13	0.90	0.12	0.12	10.00	8.74	1.0	0.0001	18	0.58	1.03	11.03	0.01	599.46	599.46	599.47	PARTIAL FLOW
LAT. 'A-2'																				
19.63	0.00	19.63	A-2	0.13	0.90	0.12	0.12	10.00	8.74	1.0	0.0001	18	0.58	0.57	10.57	0.01	599.50	599.49	599.50	PARTIAL FLOW
LAT. 'A-3'																				
54.85	0.00	54.85	A-3	0.88	0.90	0.79	0.79	10.00	8.74	6.9	0.0043	18	3.92	0.23	10.23	0.24	600.25	600.01		
LAT. 'A-4'																				
34.06	0.00	34.06	A-4	0.29	0.90	0.26	0.26	10.00	8.74	2.3	0.0005	18	1.29	0.44	10.44	0.03	600.46	600.45	600.50	PARTIAL FLOW
LAT. 'A-5'																				
17.90	0.00	17.90	A-5	0.29	0.50	0.15	0.15	10.00	8.74	1.3	0.0001	18	0.72	0.42	10.42	0.01	600.55	600.55	600.56	PARTIAL FLOW
LAT. 'A-6'																				
34.06	0.00	34.06	A-6	0.31	0.90	0.28	0.28	10.00	8.74	2.4	0.0005	18	1.38	0.41	10.41	0.03	600.95	600.94	600.99	PARTIAL FLOW
LAT. 'A-7'																				
17.89	0.00	17.89	A-7	0.36	0.90	0.32	0.32	10.00	8.74	2.8	0.0007	18	1.60	0.19	10.19	0.04	600.98	600.97	601.03	PARTIAL FLOW
LAT. 'A-8'																				
12.24	0.00	12.24	A-8	0.34	0.50	0.17	0.17	10.00	8.74	1.5	0.0002	18	0.84	0.24	10.24	0.01	601.31	601.31		
LAT. 'A-9'																				
42.15	0.00	42.15	A-9	0.30	0.90	0.27	0.27	10.00	8.74	2.4	0.0005	18	1.34	0.53	10.53	0.03	602.05	602.03		
LAT. 'A-10'																				
14.82	0.00	14.82	A-10	0.62	0.50	0.31	0.31	10.00	8.74	2.7	0.0007	18	1.53	0.16	10.16	0.04	606.40	606.39		
LAT. 'A-11'																				
13.86	0.00	13.86	A-11	0.18	0.90	0.16	0.16	10.00	8.74	1.4	0.0002	18	0.80	0.29	10.29	0.01	606.56	606.55	606.57	PARTIAL FLOW
LAT. 'A-12'																				
13.86	0.00	13.86	A-12	0.16	0.90	0.14	0.14	10.00	8.74	1.3	0.0001	18	0.71	0.32	10.32	0.01	607.78	607.78	607.79	PARTIAL FLOW
LAT. 'A-13'																				
220.57	192.05	28.52	A-13.3,13.2	1.50	0.90	1.35	1.35	10.00	8.74	11.8	0.0126	18	6.68	0.07	10.07	0.69	609.45	609.09		
192.05	100.00	92.05	A-13.1	0.32	0.90	0.29	1.64	10.07	8.72	14.3	0.0185	18	8.09	0.19	10.26	1.02	608.76	607.06		
LAT. 'A-13.1'																				
0.00	0.00	0.00	A-13.1	0.32	0.90	0.29	0.29	10.00	8.74	2.5	0.0006	18	1.42	0.00	10.00	0.03	609.09	609.09	609.13	
LAT. 'A-13.2'																				
26.01	0.00	26.01	A-13.2,13.3	1.50	0.90	1.35	1.35	10.00	8.74	11.8	0.0126	18	6.68	0.06	10.06	0.69	609.78	609.45		
LAT. 'A-14'																				
19.67	0.00	19.67	A-14	0.15	0.90	0.14	0.14	10.00	8.74	1.2	0.0001	18	0.49	0.49	10.49	0.01	609.63	609.63	609.64	PARTIAL FLOW
LAT. 'A-15'																				
23.61	0.00	23.61	A-15	1.11	0.90	1.00	1.00	10.00	8.74	8.7	0.0069	18	4.94	0.08	10.08	0.38	609.60	609.43		
LAT. 'A-16'																				
43.88	0.00	43.88	A-16	0.65	0.90	0.59	0.59	10.00	8.74	5.1	0.0024	18	2.89	0.25	10.25	0.13	611.34	611.24		

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY DAVID E. MEYERS, P.E. 81512



RECORD DRAWING

DATE	DESCRIPTION	REF NO.				
10/3/97	ISSUED FOR CONSTRUCTION	N/A				
7/14/97	ISSUED FOR BID	N/A				
STORM WATER CALCULATIONS						
HYDRAULIC CALCULATIONS						
ADDISON CIRCLE						
PHASE II PUBLIC INFRASTRUCTURE						
TOWN OF ADDISON, TEXAS						
Huitt-Zollars, Inc./Engineering/Architecture Dallas, Fort Worth, Houston, El Paso, Phoenix, Tustin, Ontario						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	DEM	N.T.S.	JUN. 97	01-1822-21	SW5

HYDRAULIC CALCULATIONS

COLLECTION POINT INLETS OR MANHOLES		DISTANCE BETWEEN COLLECTION POINTS	INCREMENTAL DRAINAGE AREA				TIME @ UPSTREAM STATION (MIN.)	INTENSITY "I-100" (IN./HR)	100 YR. STORM RUNOFF "Q"	SLOPE OF HYDRAULIC GRADIENT (FT./FT.)	STORM SEWER SIZE	VELOCITY "V" (F.P.S.)	FLOW TIME IN SEWER (MIN.)	TIME @ DOWNSTREAM STATION (MIN.)	VELOCITY HEAD (FEET)	HYDRAULIC GRADE AT UPSTREAM STATION	HYDRAULIC GRADE AT DOWNSTREAM STATION	HYDRAULIC GRADE AT INLETS	COMMENTS	
UPSTREAM STATION	DOWNSTREAM STATION		INCREM. AREA NO.	AREA "A" (AC.)	RUNOFF COEFF. "C"	INCREM. "CA"														ACCUM. "CA"
LINE 'J'																				
195.76	177.48	18.28	J-3	0.34	0.90	0.31	0.31	10.00	8.74	2.7	0.0006	18	1.51	0.20	10.20	0.04	604.63	604.62		
177.48	171.48	6.00	J-2	1.27	0.90	1.14	1.45	10.20	8.69	12.6	0.0063	21	5.24	0.02	10.22	0.43	604.23	604.19		
171.48	106.00	65.48	J-1	0.61	0.90	0.55	2.00	10.22	8.69	17.4	0.0120	21	7.21	0.15	10.37	0.81	603.81	603.02		
LAT. 'J-1'																				
36.35	0.00	36.35	J-1	0.61	0.90	0.55	0.55	10.00	8.74	4.8	0.0021	18	2.72	0.22	10.22	0.11	604.57	604.50	604.72	PARTIAL FLOW
LAT. 'J-2'																				
31.76	0.00	31.76	J-2	1.27	0.90	1.14	1.14	10.00	8.74	10.0	0.0091	18	5.66	0.09	10.09	0.50	604.48	604.19		
LAT. 'J-3'																				
20.19	0.00	20.19	J-3	0.34	0.90	0.31	0.31	10.00	8.74	2.7	0.0006	18	1.51	0.22	10.22	0.04	604.64	604.63	604.69	PARTIAL FLOW
LINE 'L'																				
1230.00	984.00	246.00	LINE O	3.60	0.90	3.24	3.24	10.78	8.54	27.7	0.0080	27	6.96	0.59	11.37	0.75	611.75	609.78		
984.00	978.00	6.00	L-12	0.31	0.90	0.28	3.52	11.37	8.40	29.6	0.0091	27	7.44	0.01	11.38	0.86	609.68	609.62		
978.00	962.00	16.00	L-11	0.27	0.90	0.24	3.76	11.38	8.40	31.6	0.0104	27	7.95	0.03	11.42	0.98	609.50	609.34		
962.00	935.00	27.00	L-10	1.19	0.90	1.07	4.83	11.42	8.39	40.5	0.0037	36	5.74	0.08	11.49	0.51	609.57	609.47		
935.00	740.00	195.00	LINE N	3.97	0.83	3.30	8.13	11.49	8.37	68.0	0.0046	42	7.07	0.46	11.95	0.78	608.82	607.93		
740.00	612.00	128.00	L-9	0.31	0.90	0.28	8.41	11.95	8.27	69.5	0.0048	42	7.22	0.30	12.25	0.81	607.90	607.29		
612.00	590.00	22.00	L-8	1.85	0.90	1.67	10.07	12.25	8.20	82.6	0.0067	42	8.59	0.04	12.29	1.14	606.95	606.80		
590.00	502.00	88.00	L-7	0.31	0.90	0.28	10.35	12.29	8.19	84.8	0.0071	42	8.81	0.17	12.46	1.21	606.74	606.12		
502.00	474.16	27.84	L-6	0.19	0.90	0.17	10.52	12.46	8.16	85.8	0.0073	42	8.92	0.05	12.51	1.24	606.09	605.88		
474.16	447.54	26.62	L-5	1.21	0.90	1.09	11.61	12.51	8.15	94.6	0.0088	42	9.83	0.05	12.56	1.50	605.62	605.38		
447.54	340.44	107.10	LINE M	4.22	0.90	3.80	15.41	12.56	8.14	125.4	0.0041	54	7.88	0.23	12.78	0.96	604.79	604.36		
340.44	320.04	20.40	L-4	0.27	0.90	0.24	15.65	12.78	8.09	126.6	0.0041	54	7.96	0.04	12.82	0.98	604.34	604.26		
320.04	296.00	24.04	L-3	0.40	0.90	0.36	16.01	12.82	8.08	129.4	0.0043	54	8.13	0.05	12.87	1.03	604.21	604.11		
296.00	253.85	42.15	L-2	1.96	0.90	1.76	17.78	12.87	8.07	143.4	0.0053	54	9.02	0.08	12.95	1.26	603.87	603.65		
253.85	206.00	47.85	L-1	0.49	0.90	0.44	18.22	12.95	8.05	146.7	0.0056	54	9.22	0.09	13.04	1.32	603.59	603.32		
206.00	106.00	100.00	LINE S	0.72	0.90	0.65	18.87	13.04	8.04	151.6	0.0059	54	9.53	0.17	13.21	1.41	603.23	602.64		
LAT. 'L-1'																				
31.75	0.00	31.75	L-1	0.49	0.90	0.44	0.44	10.00	8.74	3.9	0.0013	18	2.18	0.24	10.24	0.07	604.88	604.84		
LAT. 'L-2'																				
47.92	0.00	47.92	L-2	1.96	0.90	1.76	1.76	10.00	8.74	15.4	0.0046	24	4.91	0.16	10.16	0.37	604.98	604.76		
LAT. 'L-3'																				
36.35	0.00	36.35	L-3	0.40	0.90	0.36	0.36	10.00	8.74	3.1	0.0009	18	1.78	0.34	10.34	0.05	605.22	605.19	605.28	PARTIAL FLOW
LAT. 'L-4'																				
20.19	0.00	20.19	L-4	0.27	0.90	0.24	0.24	10.00	8.74	2.1	0.0004	18	1.20	0.28	10.28	0.02	605.31	605.30	605.34	PARTIAL FLOW
LAT. 'L-5'																				
31.75	0.00	31.75	L-5	1.21	0.90	1.09	1.09	10.00	8.74	9.5	0.0082	18	5.39	0.10	10.10	0.45	606.93	606.67		
LINE 'M'																				
465.32	452.80	12.52	M-8	0.32	0.90	0.29	0.29	10.00	8.74	2.5	0.0006	18	1.42	0.15	10.15	0.03	611.56	611.55		
452.80	435.00	17.80	M-7	0.11	0.90	0.10	0.39	10.15	8.70	3.4	0.0010	18	1.91	0.16	10.30	0.06	611.53	611.51		
435.00	405.00	30.00	M-6, N-7	2.06	0.77	1.59	1.97	10.30	8.66	17.1	0.0116	21	7.11	0.07	10.37	0.78	610.78	610.43		
405.00	325.80	79.20	M-5	1.04	0.90	0.94	2.91	10.37	8.65	25.2	0.0124	24	8.01	0.16	10.54	1.00	610.22	609.24		
325.80	178.54	147.26	M-4	0.53	0.90	0.48	3.39	10.54	8.60	29.1	0.0166	24	9.27	0.26	10.80	1.34	608.90	606.46		
178.54	165.80	12.74	M-3	0.37	0.90	0.33	3.72	10.80	8.54	31.8	0.0105	27	7.99	0.03	10.83	0.99	606.63	606.50		
165.80	140.00	25.80	M-2	0.12	0.90	0.11	3.83	10.83	8.53	32.6	0.0111	27	8.21	0.05	10.88	1.05	606.44	606.15		
140.00	100.00	40.00	M-1	0.36	0.90	0.32	4.15	10.88	8.52	35.4	0.0130	27	8.89	0.07	10.96	1.23	605.97	605.45		
LAT. 'M-1'																				
27.14	0.00	27.14	M-1	0.36	0.90	0.32	0.32	10.00	8.74	2.8	0.0007	18	1.60	0.28	10.28	0.04	607.18	607.16		
LAT. 'M-2'																				
31.18	0.00	31.18	M-2	0.12	0.90	0.11	0.11	10.00	8.74	0.9	0.0001	18	0.53	0.97	10.97	0.00	607.49	607.48	607.49	PARTIAL FLOW
LAT. 'M-3'																				
15.01	0.00	15.01	M-3	0.37	0.90	0.33	0.33	10.00	8.74	2.9	0.0008	18	1.65	0.15	10.15	0.04	607.59	607.58	607.64	PARTIAL FLOW
LAT. 'M-4'																				
31.18	0.00	31.18	M-4	0.53	0.90	0.48	0.48	10.00	8.74	4.2	0.0016	18	2.36	0.22	10.22	0.09	610.20	610.15	610.31	PARTIAL FLOW
LAT. 'M-5'																				
27.14	0.00	27.14	M-5	1.04	0.90	0.94	0.94	10.00	8.74	8.2	0.0027	21	3.40	0.13	10.13	0.18	611.11	611.04		
LAT. 'M-6'																				
43.30	0.00	43.30	M-6 & N-7	1.37	0.90	1.23	1.23	10.00	8.74	10.8	0.0046	21	4.48	0.16	10.16	0.31	611.45	611.25		
LAT. 'M-7'																				
31.18	0.00	31.18	M-7	0.11	0.79	0.09	0.09	10.00	8.74	0.8	0.0001	18	0.43	1.21	11.21	0.00	611.58	611.58	611.59	PARTIAL FLOW

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY DAVID E. MEYERS, P.E. 81512



RECORD DRAWING

DATE	DESCRIPTION	REF. NO.				
10/3/97	ISSUED FOR CONSTRUCTION	N/A				
7/14/97	ISSUED FOR BID	N/A				
STORM WATER CALCULATIONS						
HYDRAULIC CALCULATIONS						
ADDISON CIRCLE						
PHASE II PUBLIC INFRASTRUCTURE						
TOWN OF ADDISON, TEXAS						
Huitl-Zollars, Inc./Engineering/Architecture Dallas, Fort Worth, Houston, El Paso, Phoenix, Tustin, Ontario						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	DEM	N.T.S.	OCT. 97	01-1822-21	SW6

HYDRAULIC CALCULATIONS

COLLECTION POINT INLETS OR MANHOLES		DISTANCE BETWEEN COLLECTION POINTS	INCREMENTAL DRAINAGE AREA				TIME @ UPSTREAM STATION (MIN.)	INTENSITY "I-100" (IN./HR)	100 YR. STORM RUNOFF "Q"	SLOPE OF HYDRAULIC GRADIENT (FT./FT.)	STORM SEWER SIZE	VELOCITY "V" (F.P.S.)	FLOW TIME IN SEWER (MIN.)	TIME @ DOWNSTREAM STATION (MIN.)	VELOCITY HEAD (FEET)	HYDRAULIC GRADE AT UPSTREAM STATION	HYDRAULIC GRADE AT DOWNSTREAM STATION	HYDRAULIC GRADE AT INLETS	COMMENTS
UPSTREAM STATION	DOWNSTREAM STATION		INCREM. AREA NO.	AREA "A" (AC.)	RUNOFF COEFF. "C"	INCREM. ACCUM. "CA"													
LAT. 'M-8'																			
15.01	0.00	15.01	M-8	0.32	0.90	0.29	0.29	10.00	8.74	2.5	0.0006	18	1.42	0.18	10.18	0.03	611.57	611.56	611.62
LINE 'N'																			
445.00	410.00	35.00	N-7	0.69	0.50	0.35	0.35	10.00	8.74	3.0	0.0004	21	1.25	0.47	10.47	0.02	612.75	612.74	
410.00	350.00	60.00	N-6	0.15	0.90	0.14	0.48	10.47	8.62	4.1	0.0007	21	1.72	0.58	11.05	0.05	612.72	612.68	
350.00	170.00	180.00	N-5 & O-8	1.51	0.90	1.36	1.84	11.05	8.48	15.6	0.0097	21	6.48	0.46	11.51	0.65	612.07	610.33	
170.00	165.00	5.00	N-4	0.17	0.90	0.15	1.99	11.51	8.37	16.7	0.0054	24	5.31	0.02	11.52	0.44	610.44	610.41	
165.00	150.00	15.00	N-3	0.55	0.90	0.50	2.49	11.52	8.36	20.8	0.0085	24	6.62	0.04	11.56	0.68	610.16	610.04	
150.00	145.00	5.00	N-2 & O-2	0.88	0.90	0.79	3.28	11.56	8.36	27.4	0.0045	30	5.58	0.01	11.58	0.48	610.14	610.11	
145.00	100.00	45.00	N-1	1.21	0.90	1.09	4.37	11.58	8.35	36.5	0.0079	30	7.43	0.10	11.68	0.86	609.74	609.38	FUTURE LINE
LAT. 'N-1'																			
31.47	0.00	31.47	N-1	0.11	0.90	0.10	0.10	10.00	8.74	0.9	0.0001	18	0.49	1.07	11.07	0.00	610.60	610.59	610.60
LAT. 'N-2'																			
14.87	0.00	14.87	N-2 & O-2	0.31	0.90	0.28	0.28	10.00	8.74	2.4	0.0005	18	1.38	0.18	10.18	0.03	610.60	610.59	610.64
LAT. 'N-3'																			
26.89	0.00	26.89	N-3	0.64	0.90	0.58	0.58	10.00	8.74	5.0	0.0010	21	2.09	0.21	10.21	0.07	610.80	610.78	
LAT. 'N-4'																			
44.14	0.00	44.14	N-4	1.15	0.90	1.04	1.04	10.00	8.74	9.0	0.0033	21	3.76	0.20	10.20	0.22	610.80	610.65	
LAT. 'N-5'																			
26.89	0.00	26.89	N-5 & O-8	0.63	0.90	0.57	0.57	10.00	8.74	5.0	0.0022	18	2.81	0.16	10.16	0.12	612.66	612.60	
LAT. 'N-6'																			
31.78	0.00	31.78	N-6	0.51	0.90	0.46	0.46	10.00	8.74	4.0	0.0015	18	2.27	0.23	10.23	0.08	612.75	612.70	612.85
LAT. 'N-7'																			
43.71	0.00	43.71	N-7	2.54	0.79	2.01	2.01	10.00	8.74	17.5	0.0060	24	5.58	0.13	10.13	0.48	612.78	612.52	
LINE 'O'																			
360.00	360.00	20.00	O-8	0.75	0.90	0.68	0.68	10.00	8.74	5.9	0.0014	21	2.45	0.14	10.14	0.09	615.75	615.73	
360.00	340.00	20.00	O-7	1.02	0.90	0.92	1.59	10.14	8.71	13.9	0.0077	21	5.77	0.06	10.19	0.52	615.30	615.15	
340.00	335.00	5.00	O-6	0.19	0.90	0.17	1.76	10.19	8.69	15.3	0.0094	21	6.37	0.01	10.21	0.63	615.03	614.99	
335.00	175.00	160.00	O-5	0.20	0.90	0.18	1.94	10.21	8.69	16.9	0.0114	21	7.02	0.38	10.59	0.77	614.85	613.03	
175.00	170.00	5.00	O-4	0.12	0.90	0.11	2.05	10.59	8.59	17.6	0.0061	24	5.61	0.01	10.60	0.49	613.17	613.14	
170.00	150.00	20.00	O-3	0.12	0.90	0.11	2.16	10.60	8.59	18.5	0.0067	24	5.90	0.06	10.66	0.54	613.09	612.96	
150.00	130.00	20.00	O-2	0.44	0.90	0.40	2.56	10.66	8.57	21.9	0.0094	24	6.98	0.05	10.71	0.76	612.74	612.55	
130.00	100.00	30.00	O-1	0.76	0.90	0.68	3.24	10.71	8.56	27.7	0.0080	27	6.98	0.07	10.78	0.76	612.55	612.31	FUTURE LINE
LAT. 'O-1'																			
31.47	0.00	31.47	O-1	0.11	0.90	0.10	0.10	10.00	8.74	0.9	0.0001	18	0.49	1.07	11.07	0.00	613.31	613.31	
LAT. 'O-2'																			
14.87	0.00	14.87	O-2	0.31	0.90	0.28	0.28	10.00	8.74	2.4	0.0005	18	1.38	0.18	10.18	0.03	613.48	613.47	
LAT. 'O-3'																			
26.89	0.00	26.89	O-3	0.64	0.90	0.58	0.58	10.00	8.74	5.0	0.0010	21	2.09	0.21	10.21	0.07	613.59	613.56	613.68
LAT. 'O-4'																			
44.14	0.00	44.14	O-4	1.15	0.90	1.04	1.04	10.00	8.74	9.0	0.0033	21	3.76	0.20	10.20	0.22	613.59	613.44	613.86
LAT. 'O-5'																			
26.89	0.00	26.89	O-5	0.63	0.90	0.57	0.57	10.00	8.74	5.0	0.0022	18	2.81	0.16	10.16	0.12	615.56	615.50	615.71
LAT. 'O-6'																			
31.78	0.00	31.78	O-6	0.51	0.90	0.46	0.46	10.00	8.74	4.0	0.0015	18	2.27	0.23	10.23	0.08	615.63	615.59	615.73
LAT. 'O-7'																			
43.71	0.00	43.71	O-7	2.54	0.79	2.01	2.01	10.00	8.74	17.5	0.0060	24	5.58	0.13	10.13	0.48	615.60	615.33	
LAT. 'O-8'																			
31.47	0.00	31.47	O-8	0.42	0.90	0.38	0.38	10.00	8.74	3.3	0.0010	18	1.87	0.28	10.28	0.05	615.82	615.79	

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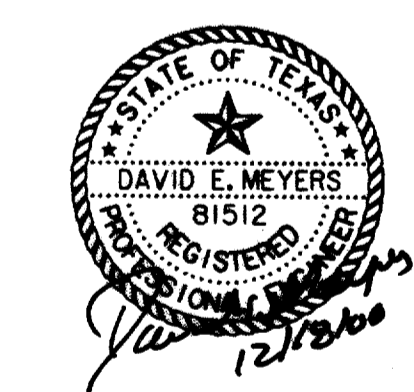
RECORD DRAWING

DATE	DESCRIPTION	REF. NO.				
10/3/97	ISSUED FOR CONSTRUCTION	N/A				
7/14/97	ISSUED FOR BID	N/A				
STORM WATER CALCULATIONS						
HYDRAULIC CALCULATIONS						
ADDISON CIRCLE						
PHASE II PUBLIC INFRASTRUCTURE						
TOWN OF ADDISON, TEXAS						
Hull-Zollars, Inc./Engineering/Architecture Dallas, Fort Worth, Houston, El Paso, Phoenix, Tustin, Ontario						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	DEM	N.T.S.	OCT. 97	01-1822-21	SW7

HYDRAULIC CALCULATIONS

COLLECTION POINT INLETS OR MANHOLES		DISTANCE BETWEEN COLLECTION POINTS	INCREMENTAL DRAINAGE AREA					TIME @ UPSTREAM STATION (MIN.)	INTENSITY "I-100" (IN./HR.)	100 YR. STORM RUNOFF "Q" (CFS.)	SLOPE OF HYDRAULIC GRADIENT (FT./FT.)	STORM SEWER SIZE	VELOCITY "V" (F.P.S.)	FLOW TIME IN SEWER (MIN.)	TIME @ DOWNSTREAM STATION (MIN.)	VELOCITY HEAD (FEET)	HYDRAULIC GRADE AT UPSTREAM STATION	HYDRAULIC GRADE AT DOWNSTREAM STATION	HYDRAULIC GRADE AT INLETS	COMMENTS
UPSTREAM STATION	DOWNSTREAM STATION		INCREM. AREA NO.	AREA "A" (AC.)	RUNOFF COEFF. "C"	INCREM. "CA"	ACCUM. "CA"													
LINE 'Q'																				
955.00	880.00	75.00	L-10	1.19	0.90	1.07	1.07	10.00	8.74	9.4	0.0035	21	3.89	0.32	10.32	0.24	604.14	603.87		FUT. LATERAL
880.00	875.00	5.00	L-8	0.30	0.90	0.27	1.34	10.32	8.66	11.6	0.0054	21	4.83	0.02	10.34	0.36	603.75	603.72		
875.00	870.00	5.00	Q-7	0.19	0.90	0.17	1.51	10.34	8.65	13.1	0.0068	21	5.44	0.02	10.35	0.46	603.62	603.59		
870.00	715.00	155.00	Q-6	0.19	0.90	0.17	1.68	10.35	8.65	14.6	0.0084	21	6.05	0.43	10.78	0.57	603.48	602.17		
715.00	710.00	5.00	Q-5	0.14	0.90	0.13	1.81	10.78	8.54	15.5	0.0095	21	6.43	0.01	10.79	0.64	602.10	602.05		
710.00	705.00	5.00	Q-4	0.12	0.90	0.11	1.92	10.79	8.54	16.4	0.0107	21	6.81	0.01	10.81	0.72	601.97	601.92		
705.00	350.00	355.00	Q-3	0.61	0.90	0.55	2.47	10.81	8.54	21.1	0.0087	24	6.70	0.88	11.69	0.70	601.93	598.86		
350.00	160.00	190.00	Q-2	1.79	0.90	1.61	4.08	11.69	8.33	33.9	0.0069	30	6.92	0.46	12.15	0.74	598.81	597.51		
160.00	100.00	60.00	Q-1	1.62	0.90	1.46	5.54	12.15	8.22	45.5	0.0047	36	6.44	0.16	12.30	0.64	597.56	597.28		
LAT. 'Q-1'																				
31.47	0.00	31.47	F-1	0.11	0.90	0.10	0.10	10.00	8.74	0.9	0.0001	18	0.49	1.07	11.07	0.00	*REF!	*REF!	*REF!	
LAT. 'Q-2'																				
14.87	0.00	14.87	F-2	0.31	0.90	0.28	0.28	10.00	8.74	2.4	0.0005	18	1.38	0.18	10.18	0.03	*REF!	*REF!	*REF!	
LAT. 'Q-3'																				
26.89	0.00	26.89	F-3	0.64	0.90	0.58	0.58	10.00	8.74	5.0	0.0010	21	2.09	0.21	10.21	0.07	*REF!	*REF!		
LAT. 'Q-4'																				
44.14	0.00	44.14	F-4	1.15	0.90	1.04	1.04	10.00	8.74	9.0	0.0033	21	3.76	0.20	10.20	0.22	598.13	597.98		
LAT. 'Q-5'																				
26.89	0.00	26.89	F-11	0.63	0.90	0.57	0.57	10.00	8.74	5.0	0.0022	18	2.81	0.16	10.16	0.12	602.57	602.51		
LAT. 'Q-6'																				
31.78	0.00	31.78	F-5	0.51	0.90	0.46	0.46	10.00	8.74	4.0	0.0015	18	2.27	0.23	10.23	0.08	602.66	602.61	602.78	
LAT. 'Q-7'																				
43.71	0.00	43.71	F-6 & K-7	2.54	0.79	2.01	2.01	10.00	8.74	17.5	0.0060	24	5.58	0.13	10.13	0.48	602.52	602.26		
LINE 'R'																				
1815.42	1467.59	347.83	OFFSITE	55.21	0.90	49.69	49.69	16.13	7.47	371.0	0.0050	78	11.18	0.52	16.65	1.94	610.20	608.45		PARTIAL FLOW
1467.59	1340.93	126.66	R-8	0.17	0.90	0.15	49.84	16.65	7.38	368.0	0.0049	78	11.09	0.19	16.84	1.91	608.47	607.85		PARTIAL FLOW
1340.93	1305.77	35.16	R-7	0.24	0.90	0.22	50.06	16.84	7.35	368.0	0.0049	78	11.09	0.05	16.89	1.91	607.85	607.67		PARTIAL FLOW
1305.77	965.42	340.35	R-6	0.13	0.90	0.12	50.18	16.89	7.34	368.5	0.0049	78	11.10	0.51	17.40	1.91	607.67	605.99		PARTIAL FLOW
965.42	667.74	297.68	R-5	1.26	0.90	1.13	51.31	17.40	7.26	372.7	0.0051	78	11.23	0.44	17.84	1.96	605.94	604.44		
667.74	599.23	68.51	R-4	1.80	0.90	1.62	52.93	17.84	7.20	381.0	0.0053	78	11.48	0.10	17.94	2.05	604.35	603.99		
599.23	515.42	83.81	OFFSITE	53.33	0.90	48.00	100.93	17.94	7.18	724.9	0.0040	9'X7'	11.72	0.12	18.06	2.13	603.90	603.56		
515.42	458.47	56.95	R-3	0.38	0.90	0.34	101.27	18.06	7.17	725.6	0.0041	9'X7'	11.73	0.08	18.14	2.14	603.56	603.33		
458.47	426.67	31.80	BEND	NA	0.90	0.00	101.27	18.14	7.15	724.4	0.0040	9'X7'	11.71	0.05	18.19	2.13	601.95	601.82		
426.67	159.96	266.71	BEND	NA	0.90	0.00	101.27	18.19	7.15	723.7	0.0040	9'X7'	11.70	0.38	18.57	2.12	600.44	599.37		
159.96	135.86	24.10	R-2	1.73	0.90	1.56	102.83	18.57	7.09	729.2	0.0041	9'X7'	11.78	0.03	18.60	2.16	599.33	599.24		
135.86	130.00	5.86	R-1	0.38	0.90	0.34	103.17	18.60	7.09	731.1	0.0041	9'X7'	11.82	0.01	18.61	2.17	599.22	599.20		F.L. BC 590.34
LAT. 'R-1'																				
44.56	0.00	44.56	R-1	0.11	0.90	0.10	0.10	10.00	8.74	0.9	0.0001	18	0.49	1.52	11.52	0.00	601.39	601.39	601.40	
LAT. 'R-2'																				
11.05	0.00	11.05	R-2	0.31	0.90	0.28	0.28	10.00	8.74	2.4	0.0001	24	0.78	0.24	10.24	0.01	601.48	601.48		
LAT. 'R-3'																				
0.00	0.00	0.00	R-3	0.38	0.90	0.34	0.34	10.00	8.74	3.0	0.0008	18	1.69	0.00	10.00	0.04	605.65	605.65	605.71	
LAT. 'R-4'																				
29.17	0.00	29.17	R-4	1.15	0.90	1.04	1.04	10.00	8.74	9.0	0.0016	24	2.88	0.17	10.17	0.13	*REF!	*REF!		
LAT. 'R-5'																				
0.00	0.00	0.00	R-5	1.26	0.90	1.13	1.13	10.00	8.74	9.9	0.0089	18	5.61	0.00	10.00	0.49	609.27	609.27	609.88	
LAT. 'R-6'																				
38.88	0.00	38.88	R-6	0.51	0.90	0.46	0.46	10.00	8.74	4.0	0.0015	18	2.27	0.29	10.29	0.08	606.37	606.32	606.47	
LAT. 'R-7'																				
12.31	0.00	12.31	R-7	2.54	0.79	2.01	2.01	10.00	8.74	17.5	0.0279	18	9.93	0.02	10.02	1.53	608.40	608.05	610.31	
LAT. 'R-8'																				
38.85	0.00	38.85	R-8	2.54	0.79	2.01	2.01	10.00	8.74	17.5	0.0279	18	9.93	0.07	10.07	1.53	609.93	608.85	611.85	

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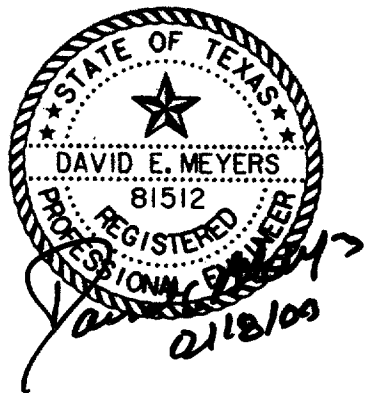
RECORD DRAWING

DATE	DESCRIPTION	REF NO.				
10/3/97	ISSUED FOR CONSTRUCTION	N/A				
7/14/97	ISSUED FOR BID	N/A				
STORM WATER CALCULATIONS						
HYDRAULIC CALCULATIONS						
ADDISON CIRCLE						
PHASE II PUBLIC INFRASTRUCTURE						
TOWN OF ADDISON, TEXAS						
Hui11-Zollars, Inc./Engineering/Architecture Dallas, Fort Worth, Houston, El Paso, Phoenix, Austin, Ontario						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	DEM	N.T.S.	OCT. 97	01-1822-21	SW8

HYDRAULIC CALCULATIONS

COLLECTION POINT INLETS OR MANHOLES		DISTANCE BETWEEN COLLECTION POINTS	INCREMENTAL DRAINAGE AREA				TIME @ UPSTREAM STATION (MIN.)	INTENSITY "I-100" (IN./HR)	100 YR. STORM RUNOFF "Q" (CFS)	SLOPE OF HYDRAULIC GRADIENT (FT./FT.)	STORM SEWER SIZE	VELOCITY "V" (F.P.S.)	FLOW TIME IN SEWER (MIN.)	TIME @ DOWNSTREAM STATION (MIN.)	VELOCITY HEAD (FEET)	HYDRAULIC GRADE AT UPSTREAM STATION	HYDRAULIC GRADE AT DOWNSTREAM STATION	HYDRAULIC GRADE AT INLETS	COMMENTS	
UPSTREAM STATION	DOWNSTREAM STATION		INCREM. AREA NO.	AREA "A" (AC.)	RUNOFF COEFF. "C"	INCREM. "CA"														ACCUM. "CA"
LINE 'S'																				
440.31	297.13	143.18	S-4	0.17	0.90	0.15	0.15	10.00	8.74	1.3	0.0002	18	0.76	3.15	13.15	0.01	606.19	606.17		
297.13	224.29	72.84	S-3	0.29	0.90	0.26	0.41	13.15	8.01	3.3	0.0010	18	1.88	0.65	13.80	0.05	606.12	606.05		
224.29	160.00	64.29	S-2	0.11	0.90	0.10	0.51	13.80	7.88	4.0	0.0015	18	2.29	0.47	14.27	0.08	606.03	605.93	PARTIAL FLOW	
160.00	134.27	25.73	NA	0.00	0.00	0.00	0.51	14.27	7.79	4.0	0.0014	18	2.26	0.19	14.46	0.08	604.68	604.64	PARTIAL FLOW	
134.27	100.00	34.27	S-1	0.15	0.90	0.14	0.65	14.46	7.76	5.0	0.0023	18	2.85	0.20	14.66	0.13	604.60	604.52		
LAT. 'S-1'																				
21.37	0.00	21.37	S-1	0.15	0.90	0.14	0.14	10.00	8.74	1.2	0.0001	18	0.67	0.53	10.53	0.01	604.72	604.72	604.73	PARTIAL FLOW
LAT. 'S-2'																				
15.59	0.00	15.59	S-2	0.13	0.90	0.12	0.12	10.00	8.74	1.0	0.0001	18	0.58	0.45	10.45	0.01	604.76	604.76	604.76	PARTIAL FLOW
LAT. 'S-3'																				
15.59	0.00	15.59	S-3	0.29	0.90	0.26	0.26	10.00	8.74	2.3	0.0005	18	1.29	0.20	10.20	0.03	606.16	606.15	606.19	PARTIAL FLOW
LAT. 'S-4'																				
440.31	297.13	143.18	S-4	0.17	0.90	0.15	0.15	10.00	8.74	1.3	0.0002	18	0.76	3.15	13.15	0.01	606.22	606.19	606.23	PARTIAL FLOW
LINE 'P'																				
1490.35	1467.86	22.49	LINE 'R'	114.65	0.90	03.19	103.19	19.59	6.95	717.0	0.0009	2-8'X8	5.60	0.07	19.66	0.49	597.52	597.50		FUT. LATERAL
1467.86	1447.86	20.00	LINE 'A'	75.62	0.88	66.55	169.73	19.66	6.94	1177.8	0.0026	2-8'X8	9.20	0.04	19.69	1.31	596.67	596.62		
1447.86	1396.00	51.86	LINE 'Q'	4.66	0.90	4.19	173.92	19.69	6.93	1206.1	0.0027	2-8'X8	9.42	0.09	19.78	1.38	596.55	596.41		
1396.00	1218.00	178.00	BEND	NA	0.90	0.00	173.92	19.78	6.92	1203.9	0.0027	2-8'X8	9.41	0.32	20.10	1.37	595.93	595.46		
1218.00	1176.00	42.00	STH. TOLLWA	46.79	0.90	42.11	216.04	20.10	6.88	1486.3	0.0041	2-8'X8	11.61	0.06	20.16	2.09	594.74	594.57		
1176.00	1121.00	55.00	BEND	NA	0.90	0.00	216.04	20.16	6.87	1484.6	0.0041	2-8'X8	11.60	0.08	20.24	2.09	593.83	593.61		
1121.00	1018.00	103.00	WTH. TOLLWA	67.90	0.90	61.11	277.15	20.24	6.86	1901.6	0.0030	3-8'X8	9.90	0.17	20.41	1.52	593.89	593.59		
1018.00	1000.00	18.00	BEND	NA	0.90	0.00	277.15	20.41	6.84	1895.3	0.0029	3-8'X8	9.87	0.03	20.44	1.51	593.05	593.00		

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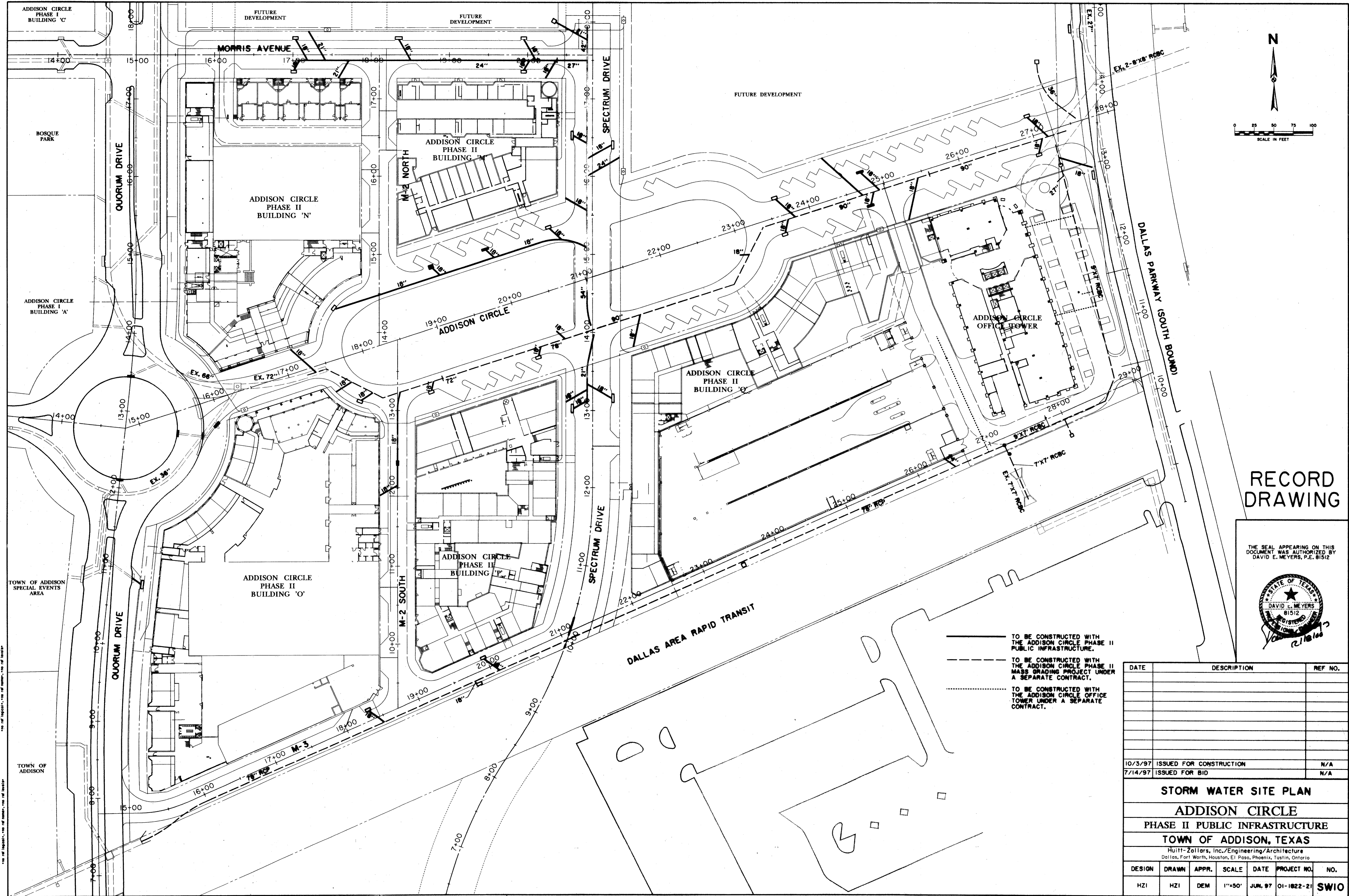
RECORD DRAWING

DATE	DESCRIPTION	REF. NO.
10/3/97	ISSUED FOR CONSTRUCTION	N/A
7/14/97	ISSUED FOR BID	N/A

**STORM WATER CALCULATIONS
HYDRAULIC CALCULATIONS
ADDISON CIRCLE
PHASE II PUBLIC INFRASTRUCTURE
TOWN OF ADDISON, TEXAS**

Hui11-Zollars, Inc./Engineering/Architecture
Dallas, Fort Worth, Houston, El Paso, Phoenix, Tustin, Ontario

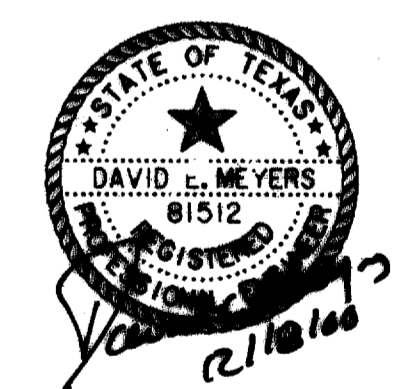
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZ1	HZ1	DEM	N.T.S.	OCT. 97	01-1822-21	SW9



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 U. AUC28904.DWG, 15-JUN-97, 10:27:59, 24,34,34,43-45
 T. AUC28904.DWG, 15-JUN-97, 10:27:59, 24,34,34,43-45
 P. AUC28904.DWG, 15-JUN-97, 10:27:59, 24,34,34,43-45
 U. AUC28904.DWG, 15-JUN-97, 10:27:59, 24,34,34,43-45
 T. AUC28904.DWG, 15-JUN-97, 10:27:59, 24,34,34,43-45
 P. AUC28904.DWG, 15-JUN-97, 10:27:59, 24,34,34,43-45
 U. AUC28904.DWG, 15-JUN-97, 10:27:59, 24,34,34,43-45
 T. AUC28904.DWG, 15-JUN-97, 10:27:59, 24,34,34,43-45

RECORD DRAWING

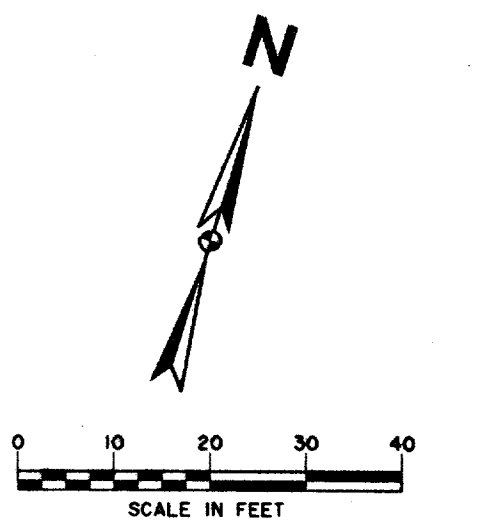
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY DAVID E. MEYERS, P.E. 81512



- TO BE CONSTRUCTED WITH THE ADDISON CIRCLE PHASE II PUBLIC INFRASTRUCTURE.
- - - TO BE CONSTRUCTED WITH THE ADDISON CIRCLE PHASE II MASS GRADING PROJECT UNDER A SEPARATE CONTRACT.
- TO BE CONSTRUCTED WITH THE ADDISON CIRCLE OFFICE TOWER UNDER A SEPARATE CONTRACT.

DATE	DESCRIPTION	REF. NO.
10/3/97	ISSUED FOR CONSTRUCTION	N/A
7/14/97	ISSUED FOR BID	N/A

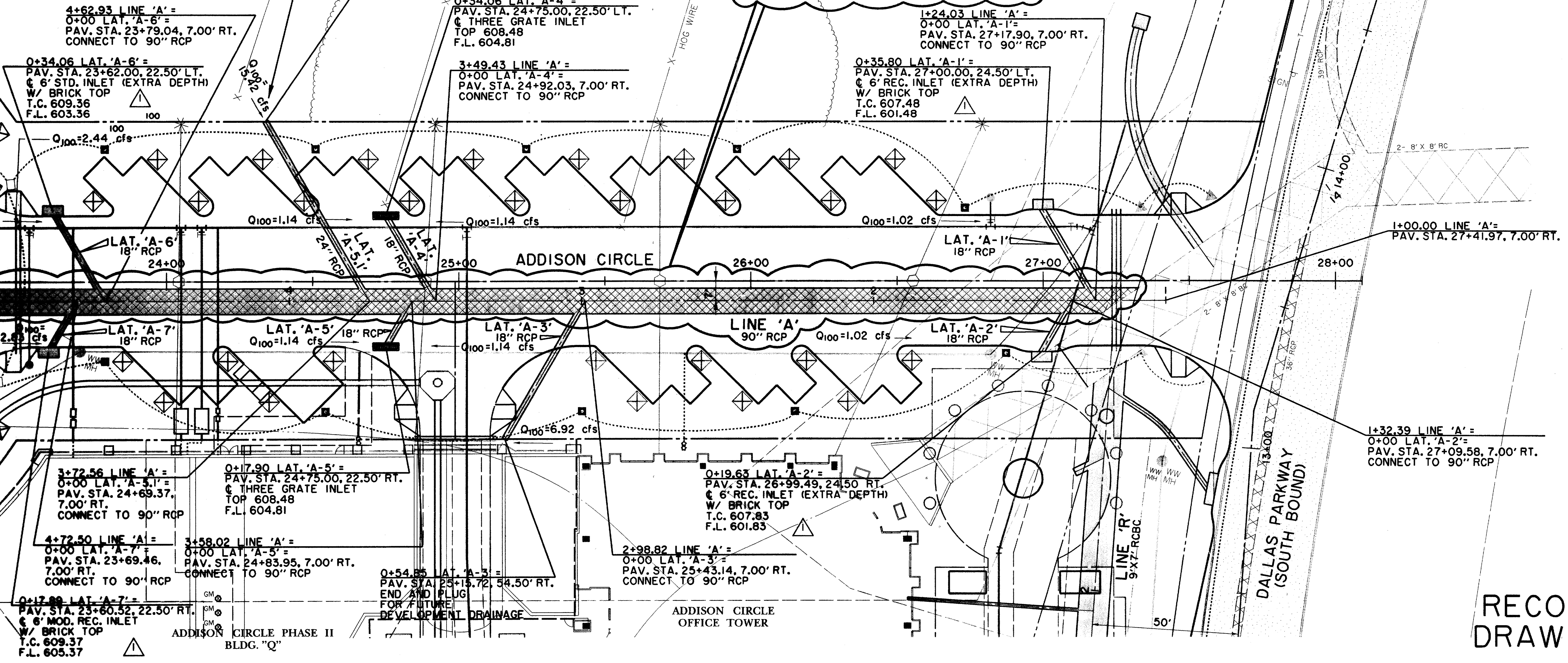
STORM WATER SITE PLAN						
ADDISON CIRCLE						
PHASE II PUBLIC INFRASTRUCTURE						
TOWN OF ADDISON, TEXAS						
Hullif-Zollars, Inc./Engineering/Architecture Dallas, Fort Worth, Houston, El Paso, Phoenix, Tustin, Ontario						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	DEM	1"=50'	JUN. 97	01-1822-21	SWIO



LINE 'A', LATERAL CONNECTIONS AND 4 FEET OF LATERAL PIPE CONSTRUCTED WITH THE ADDISON CIRCLE PHASE II MASS GRADING PROJECT UNDER A SEPARATE CONTRACT. CONTRACTOR SHALL REMOVE LATERAL PLUGS AND EXTEND LATERALS TO STUB-OUTS OR INLETS IN THIS CONTRACT.

LAT. 'A-5.1' IS AN ALTERNATE LOCATION TO DRAIN AREA L-2. SEE DRAINAGE AREA MAP HYDRAULIC CALCULATIONS SHOWN. ASSUME AREA IN SPECTRUM DRIVE L-2 DRAINS TO LINE L.

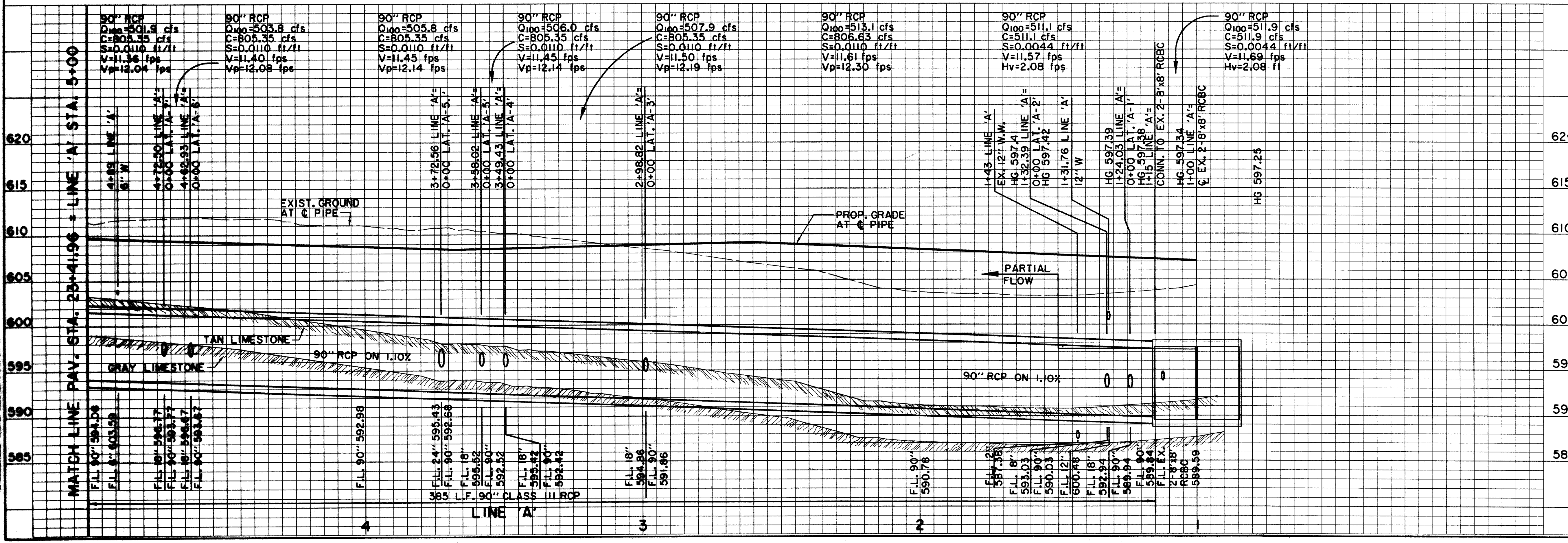
MATCH LINE PAV. STA. 23+41.96 = LINE 'A' STA. 5+00



LEGEND

	ELECTRIC		48" RCP		MISC.
	POWER POLE		CHAIN LINK FENCE		WOOD FENCE
	TELEPHONE		EXISTING ASPHALT		EXISTING DIRT OR GRAVEL
	TELEPHONE PEDESTAL		EXISTING CONCRETE		TREE/TREE LINE
	TELEPHONE SIGN		EXISTING CURB		PROP. CURB
	GAS METER		PROP. EDGE OF PAVEMENT NO CURB		EX. PROPERTY LINE
	GAS SIGN		PROP. CENTERLINE		PROP. R.O.W.
	LAND USE RAILROAD SIGN		PROP. INLET		T.P. TOP OF PAVEMENT
	SIGN		T.C. TOP OF CURB		CR CURB RETURN
	FOUND IRON ROD		EX. G. EXISTING GUTTER		EX. T.C. EXISTING TOP OF CURB
	BENCHMARK		B-20 BORING LOCATION		EXISTING BRICKS
	WASTEWATER MANHOLE		PAVEMENT REMOVAL		
	CLEANOUT				
	WATER FIRE HYDRANT				
	METER				
	WATER VALVE				

RECORD DRAWING



BENCHMARKS:

BM#5
"I" CUT AT NORTHWEST CORNER OF NORTH HDWL. OF 7'X7' BOX CULVERT UNDER RAILROAD, 2180' WEST OF DALLAS PARKWAY SOUTHBOUND, ELEV. 610.49

BM#6
"I" CUT AT CENTER FRONT OF 18' REC. INLET, SECOND INLET NORTH OF RAILROAD TRACKS ON THE WEST SIDE OF DALLAS PARKWAY SOUTHBOUND, ELEV. 605.67

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY DAVID E. MEYERS, P.E. 81512

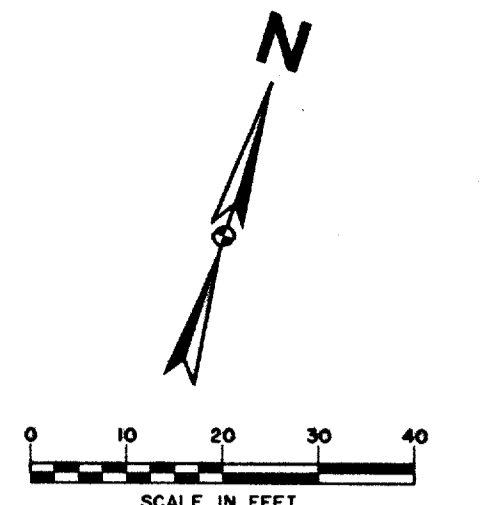
DATE	DESCRIPTION	REF. NO.
2/18/98	REV. OFFSETS AND STATIONS AT INLET	
10/3/97	ISSUED FOR CONSTRUCTION	N/A
7/14/97	ISSUED FOR BID	N/A

STORM WATER PLAN & PROFILE
LINE 'A' STA. 1+00 TO STA. 5+00

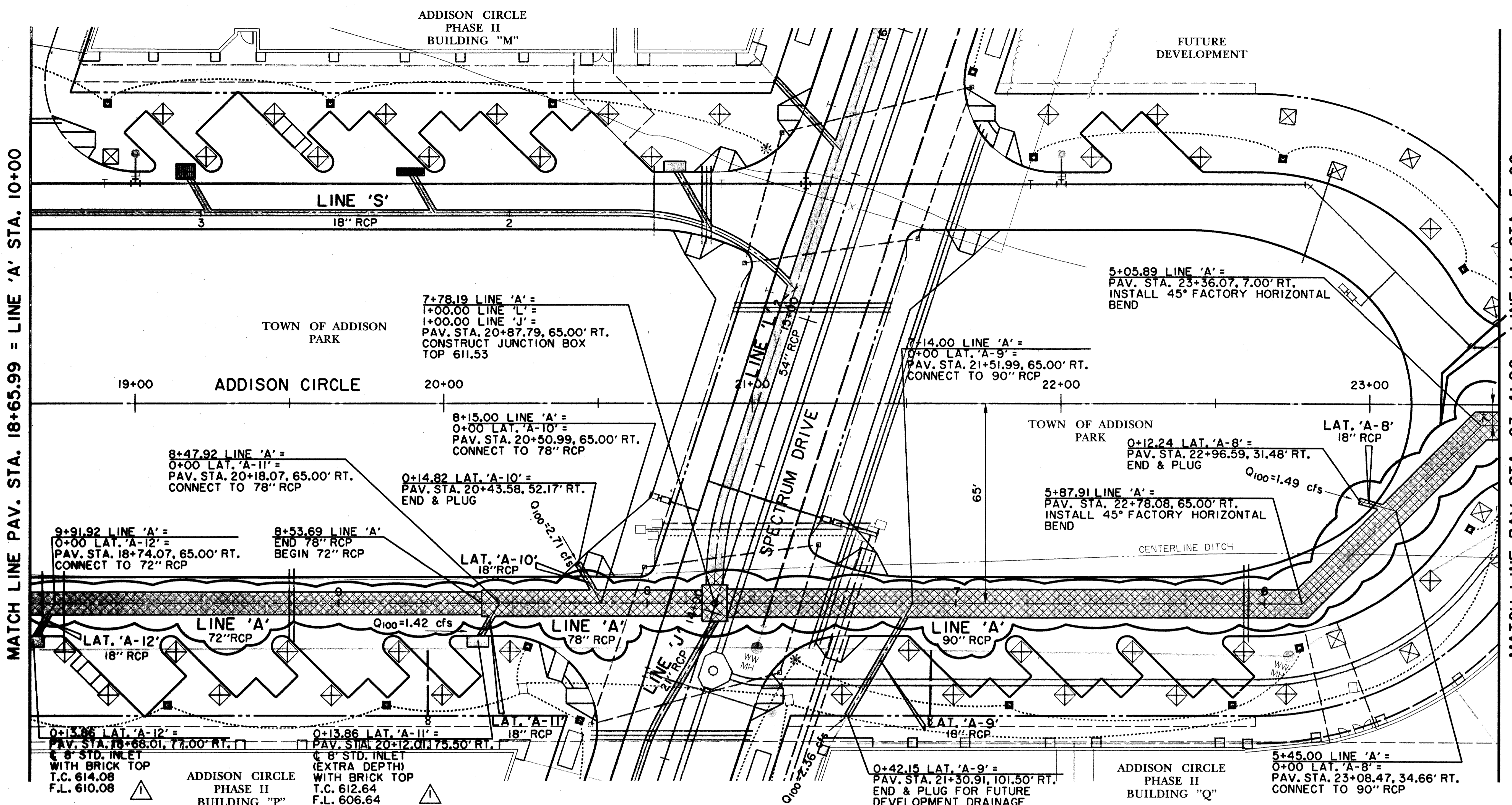
ADDISON CIRCLE
PHASE II PUBLIC INFRASTRUCTURE
TOWN OF ADDISON, TEXAS

Huitt-Zollars, Inc./Engineering/Architecture
Dallas, Fort Worth, Houston, El Paso, Phoenix, Tustin, Ontario

DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZ1	HZ1	DEM	H: 1"=20' V: 1"=6'	OCT. 97	01-1822-21	SW11



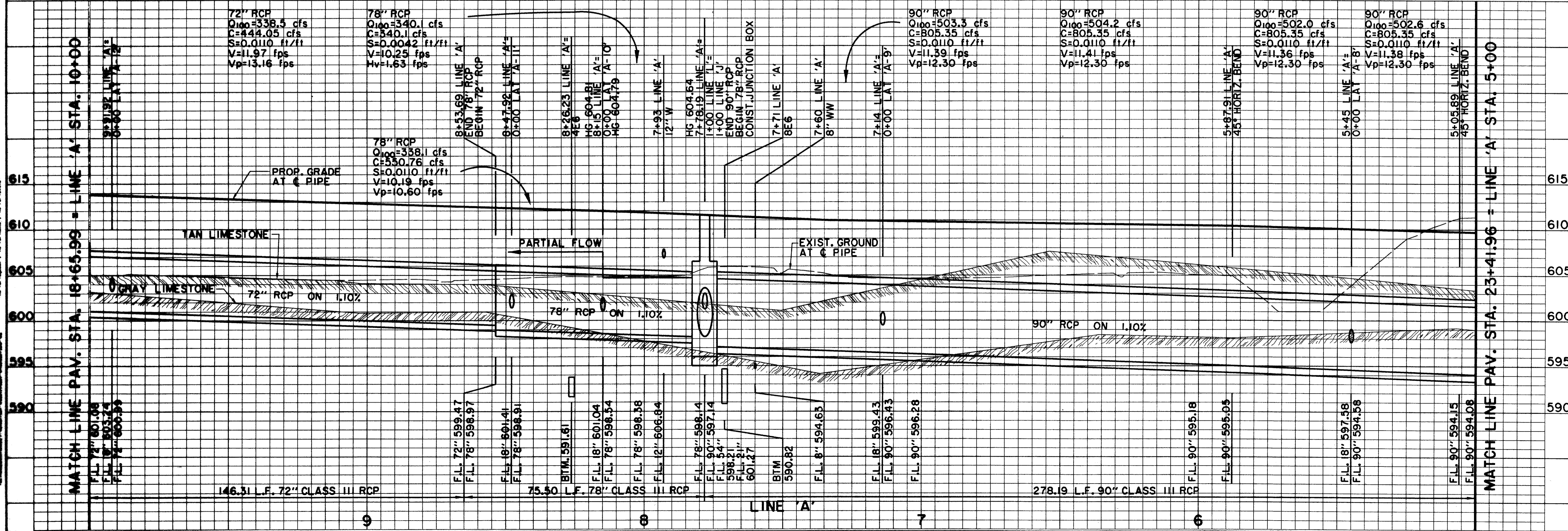
LINE 'A' LATERAL CONNECTIONS AND
 LATERALS AND JUNCTION BOX
 CONSTRUCTED WITH THE ADDISON
 CIRCLE PHASE II MASS GRADING
 PROJECT UNDER A SEPARATE CONTRACT.



RECORD
 DRAWING

LEGEND

	ELECTRIC		MISC.
	LIGHT POLE		48" RCP
	POWER POLE		EX. STORM SEWER
	TELEPHONE MANHOLE		CHAIN LINK FENCE
	TELEPHONE PEDESTAL		WOOD FENCE
	GAS SIGN		EXISTING ASPHALT
	GAS METER		EXISTING DIRT OR GRAVEL
	GAS SIGN		EX. CONCRETE
	LAND USE		TELEPHONE SIGN
	RAILROAD SIGN		TREE/TREE LINE
	FOUND IRON ROD		EXISTING CURB
	WASTEWATER MANHOLE		PROP. CURB
	CLEANOUT		PROP. EDGE OF PAVEMENT NO CURB
	FIRE HYDRANT		EX. PROPERTY LINE
	METER		PROP. CENTERLINE
	WATER VALVE		PROP. R.O.W.
	48" RCP		PROP. INLET
	EX. STORM SEWER		T.P.
	CHAIN LINK FENCE		T.C.
	WOOD FENCE		TOP OF CURB
	EXISTING ASPHALT		CR
	EXISTING DIRT OR GRAVEL		EX. G
	EX. CONCRETE		EXISTING TOP OF CURB
	TELEPHONE SIGN		BORING LOCATION
	TREE/TREE LINE		EXISTING BRICKS
	EXISTING CURB		PAVEMENT REMOVAL
	PROP. CURB		
	PROP. EDGE OF PAVEMENT NO CURB		
	EX. PROPERTY LINE		
	PROP. CENTERLINE		
	PROP. R.O.W.		
	PROP. INLET		
	T.P.		
	T.C.		
	TOP OF CURB		
	CR		
	EX. G		
	EXISTING TOP OF CURB		
	BORING LOCATION		
	EXISTING BRICKS		
	PAVEMENT REMOVAL		



BENCHMARKS:

BM#5
 "C" CUT AT NORTHWEST CORNER OF NORTH HDWL. OF 7x7' BOX CULVERT UNDER RAILROAD, ±180' WEST OF DALLAS PARKWAY SOUTHBOUND, ELEV. 610.49

BM#6
 "C" CUT AT CENTER FRONT OF 18" REC. INLET, SECOND INLET NORTH OF RAILROAD TRACKS ON THE WEST SIDE OF DALLAS PARKWAY SOUTHBOUND, ELEV. 605.67

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY DAVID E. MEYERS, P.E. 81512

DATE	DESCRIPTION	REF. NO.
2/18/98	REVISED OFFSETS AND SHIFTED INLETS	▲
10/3/97	ISSUED FOR CONSTRUCTION	N/A
10/3/97	ISSUED FOR CONSTRUCTION	N/A
7/14/97	ISSUED FOR BID	N/A

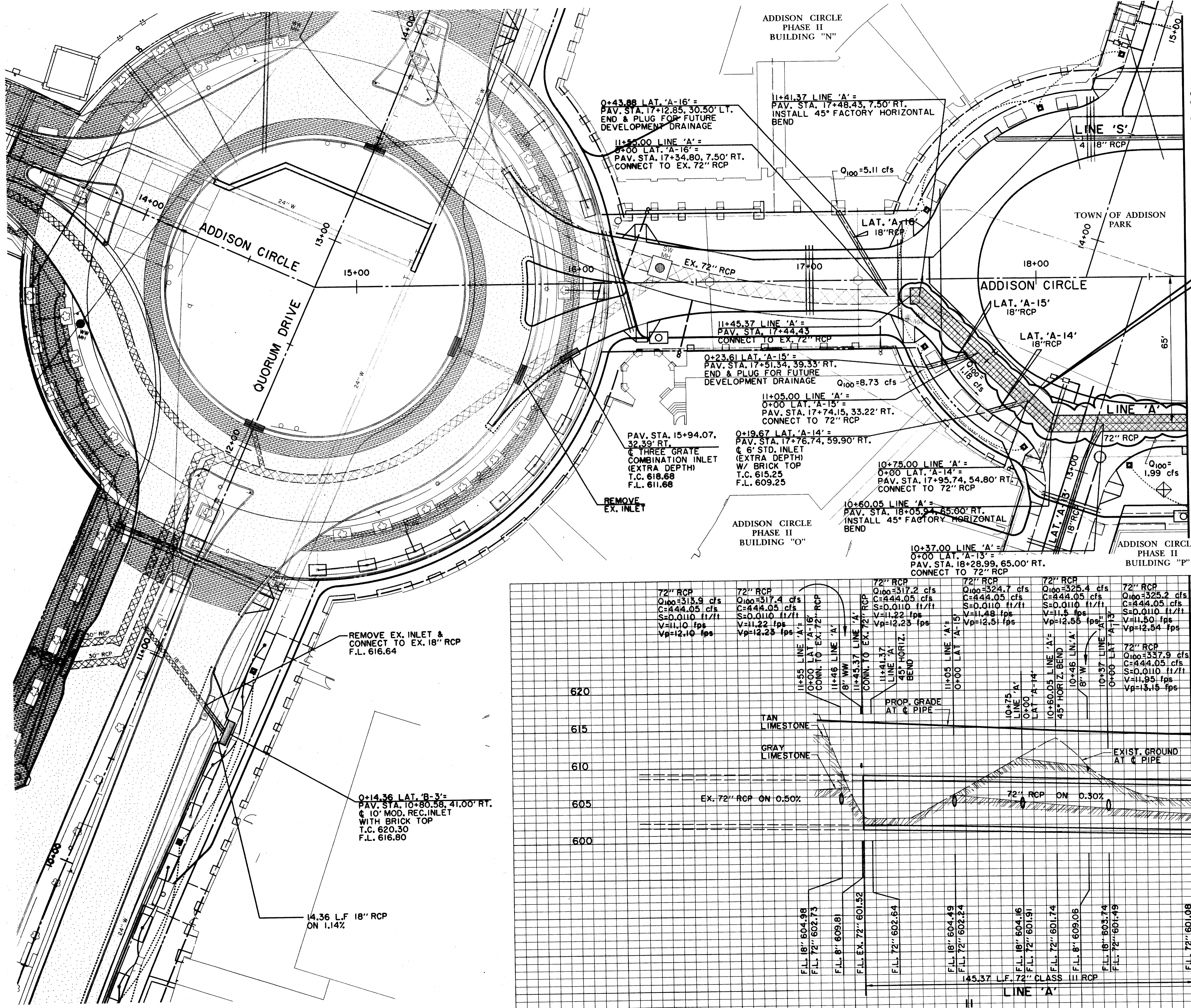
STORM WATER PLAN & PROFILE
 LINE 'A' STA. 5+00 TO STA. 10+00

ADDISON CIRCLE
 PHASE II PUBLIC INFRASTRUCTURE
 TOWN OF ADDISON, TEXAS

Huitt-Zollars, Inc./Engineering/Architecture
 Dallas, Fort Worth, Houston, El Paso, Phoenix, Tustin, Ontario

DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
H21	H21	DEM	H ₁ 1"=20' V ₁ 1"=6'	OCT. 97	01-1822-21	SW12

FOR INFORMATION PURPOSES ONLY
 THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION
 WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER
 WHOSE SEAL AND SIGNATURE ARE HEREON
 THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY
 DAVID E. MEYERS, P.E. 81512

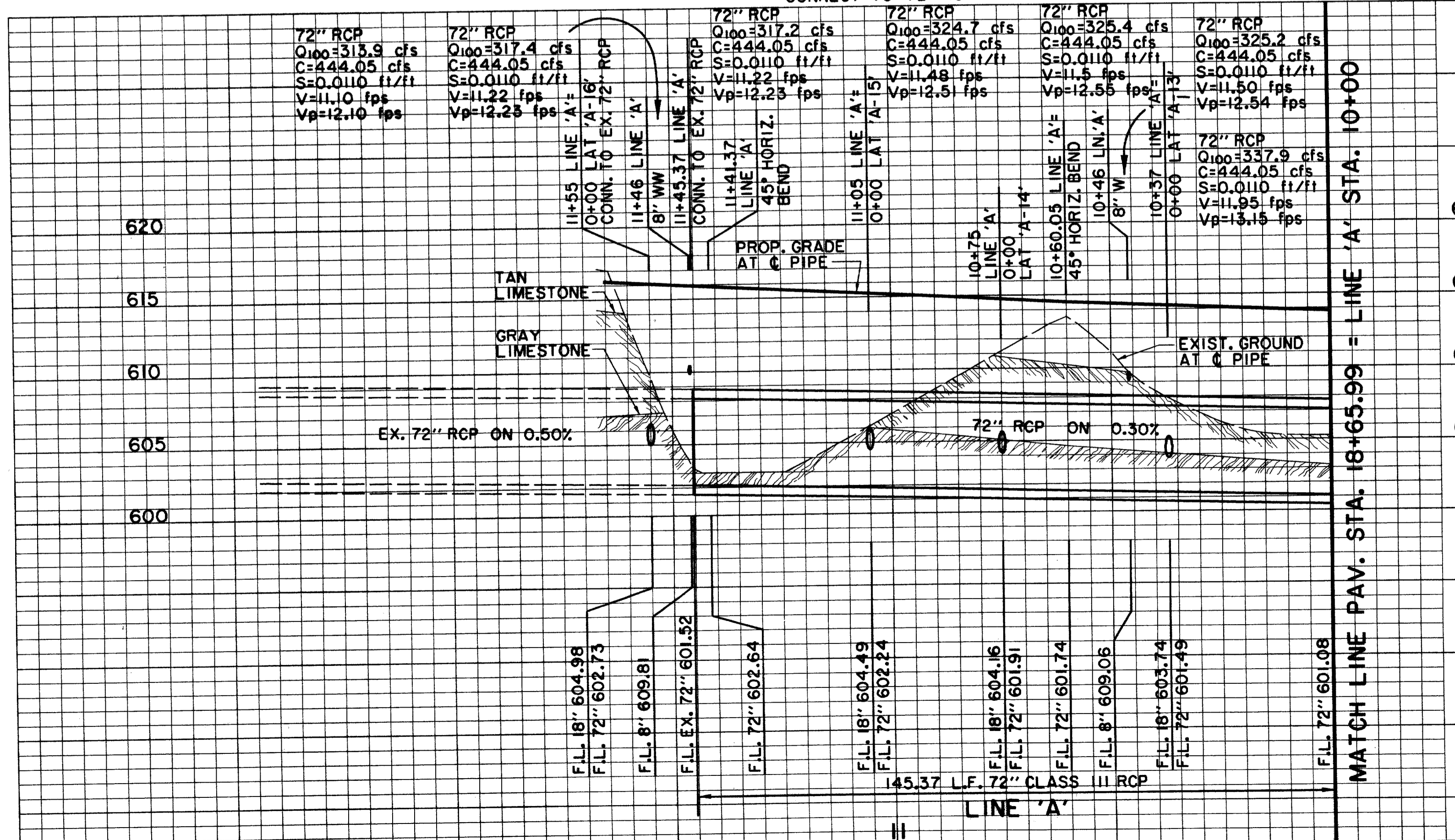


LINE 'A', LATERAL CONNECTIONS AND 4 FEET OF LATERAL PIPE CONSTRUCTED WITH THE ADDISON CIRCLE PHASE II MASS GRADING PROJECT UNDER A SEPARATE CONTRACT. CONTRACTOR SHALL REMOVE LATERAL PLUGS AND EXTEND LATERALS TO STUB-OUTS OR INLETS IN THIS CONTRACT.

LEGEND

ELECTRIC	—O—O—	48" RCP	MISC.
LIGHT POLE	⊙	EX. STORM SEWER	
POWER POLE	PP	CHAIN LINK FENCE	
GUY WIRE	—	WOOD FENCE	
TELEPHONE	—T—	EXISTING ASPHALT	
TELEPHONE MANHOLE	⊙	EXISTING DIRT OR GRAVEL	
TELEPHONE PEDESTAL	⊙	EX. CONCRETE	
TELEPHONE SIGN	⊙	TREE/TREE LINE	
GAS	—G—	EXISTING CURB	
GAS METER	⊙	PROP. CURB	
GAS SIGN	⊙	PROP. EDGE OF PAVEMENT NO CURB	
LAND USE		EX. PROPERTY LINE	
RAILROAD SIGN	⊙	PROP. CENTERLINE	
SIGN	⊙	PROP. R.O.W.	
SURVEY		PROP. INLET	
FOUND IRON ROD	⊙	T.P.	TOP OF PAVEMENT
BENCHMARK	⊙	T.C.	TOP OF CURB
WASTEWATER	—WW—	CR	CURB RETURN
WASTEWATER MANHOLE	⊙	EX. G	EXISTING GUTTER
CLEANOUT	⊙	EX. T.C.	EXISTING TOP OF CURB
WATER	—W—	B-20	BORING LOCATION
FIRE HYDRANT	⊙		EXISTING BRICKS
METER	⊙		PAVEMENT REMOVAL
WATER VALVE	⊙		

RECORD DRAWING



BENCHMARKS:

BM#1
"D" CUT AT CENTER BACK OF CURB OF INLET, 190 FEET SOUTH FROM THE CENTERLINE INTERSECTION OF MILDRED STREET, WEST SIDE OF QUORUM DRIVE. ELEV. 621.89

BM#4
"D" CUT AT CENTER OF CURB INLET, 1015 FEET NORTH FROM THE CENTERLINE INTERSECTION OF MILDRED STREET, WEST SIDE OF QUORUM DRIVE. ELEV. 629.36

DATE	DESCRIPTION	REF. NO.
10/3/97	ISSUED FOR CONSTRUCTION	N/A
7/14/97	ISSUED FOR BID	N/A

STORM WATER PLAN & PROFILE
LINE 'A' STA. 10+00 TO STA. 11+53.7

ADDISON CIRCLE
PHASE II PUBLIC INFRASTRUCTURE
TOWN OF ADDISON, TEXAS

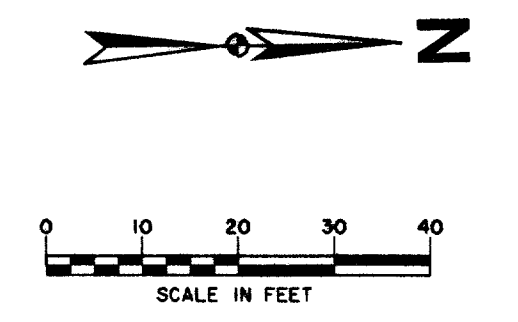
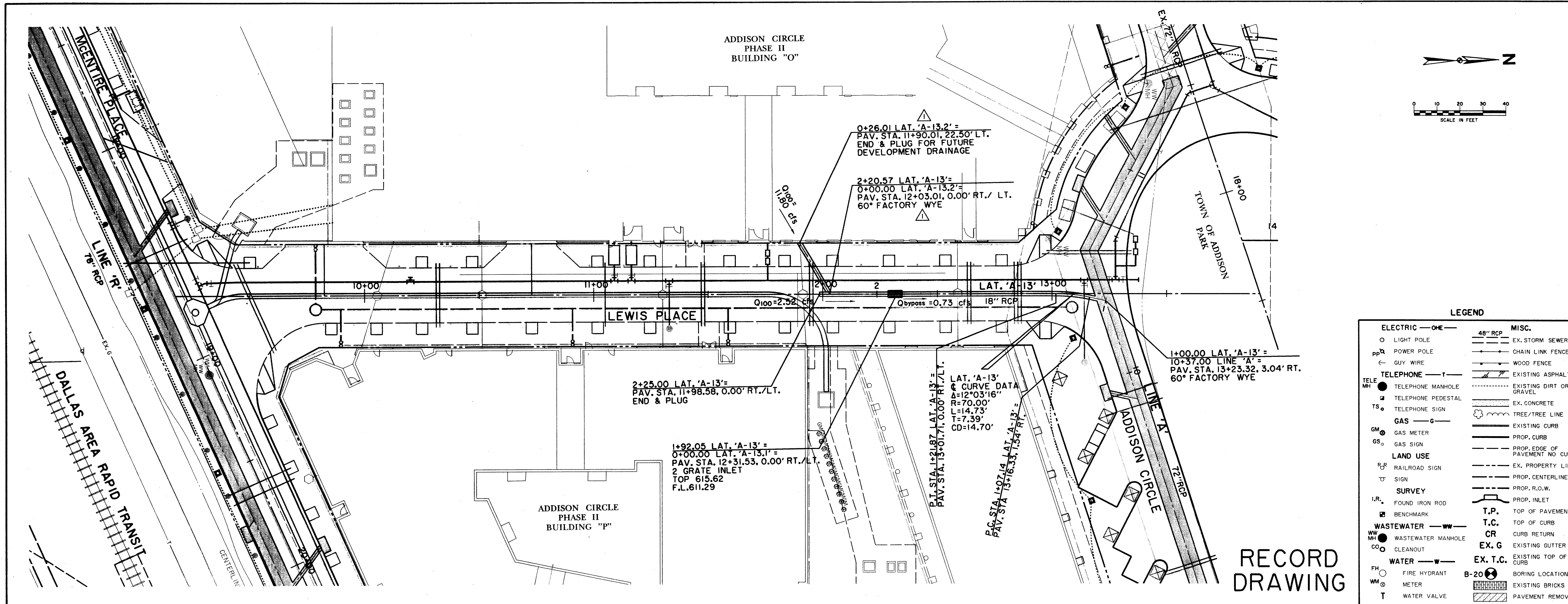
Huiji-Zollars, Inc./Engineering/Architecture
Dallas, Fort Worth, Houston, El Paso, Phoenix, Tustin, Ontario

DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	DEM	H: 1"=20' V: 1"=6'	OCT. 97	01-1822-21	SW13

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY DAVID E. MEYERS, P.E. 81512



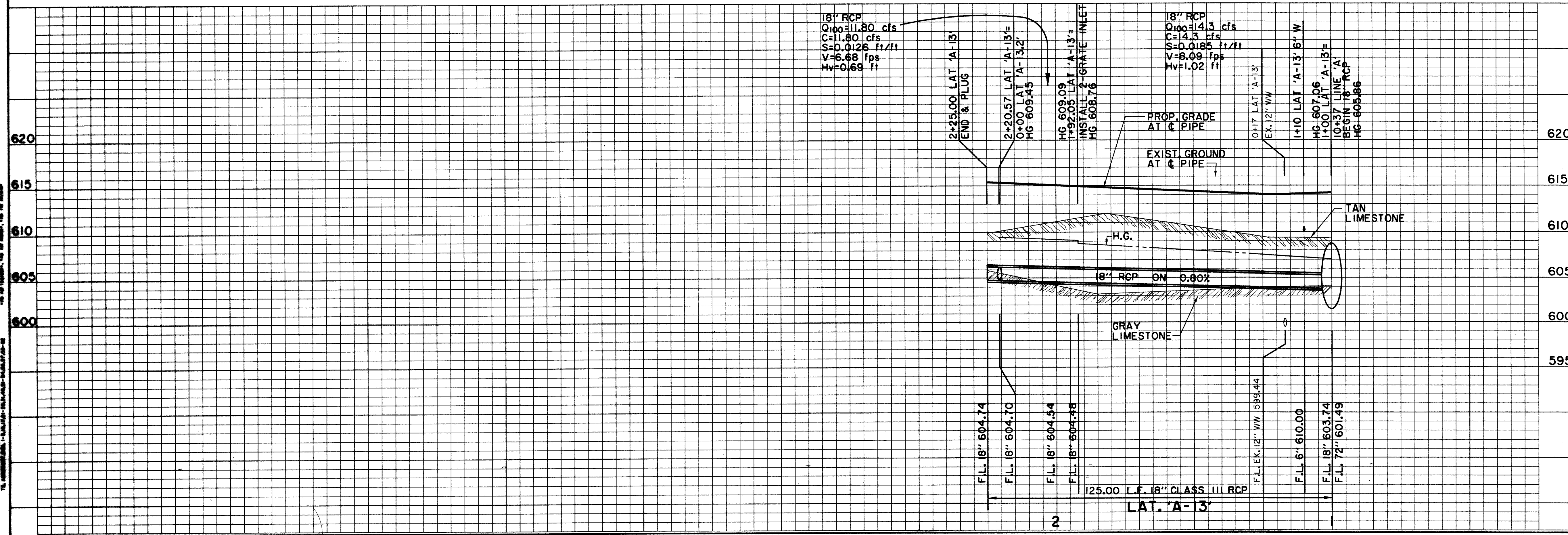
HUIJI-ZOLLARS, INC. ENGINEERING/ARCHITECTURE
 1100 WEST WILSON AVENUE, SUITE 100, DALLAS, TEXAS 75207
 TEL: (214) 343-8800 FAX: (214) 343-8801
 WWW: WWW.HUIJI-ZOLLARS.COM
 PROJECT NO. 01-1822-21-01-01
 SHEET NO. SW13 OF 13
 DATE: OCTOBER 1997
 DRAWN BY: HZI
 CHECKED BY: DEM
 APPROVED BY: HZI



LEGEND

ELECTRIC — ONE —	48" RCP —	MISC.
○ LIGHT POLE	— EX. STORM SEWER	— CHAIN LINK FENCE
PP POWER POLE	— EXISTING ASPHALT	— WOOD FENCE
— GUY WIRE	— EXISTING DIRT OR GRAVEL	— EX. CONCRETE
TELEPHONE — T —	— TREE/TREE LINE	— EXISTING CURB
● TELEPHONE MANHOLE	— PROP. EDGE OF PAVEMENT NO CURB	— EX. PROPERTY LINE
○ TELEPHONE PEDESTAL	— PROP. CENTERLINE	— PROP. R.O.W.
TS TELEPHONE SIGN	— PROP. INLET	— T.P. TOP OF PAVEMENT
G GAS — G —	— T.C. TOP OF CURB	— CR CURB RETURN
GM GAS METER	— EX. GUTTER	— EX. GUTTER
GS GAS SIGN	— EX. T.C.	— EXISTING TOP OF CURB
LAND USE	— B-20	— BORING LOCATION
R _R RAILROAD SIGN	— EXISTING BRICKS	— PAVEMENT REMOVAL
○ SIGN		
SURVEY		
I.R. FOUND IRON ROD		
□ BENCHMARK		
WASTEWATER — WW —		
WM WASTEWATER MANHOLE		
CO CLEANOUT		
WATER — W —		
FH FIRE HYDRANT		
WM METER		
T WATER VALVE		

RECORD DRAWING



BENCHMARKS:

BM#1
"C" CUT AT CENTER BACK OF CURB OF INLET, 190 FEET SOUTH FROM THE CENTERLINE INTERSECTION OF MILDRED STREET, WEST SIDE OF QUORUM DRIVE.
ELEV. 621.89

BM#4
"C" CUT AT CENTER OF CURB INLET, 1015 FEET NORTH FROM THE CENTERLINE INTERSECTION OF MILDRED STREET, WEST SIDE OF QUORUM DRIVE.
ELEV. 629.36

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY DAVID E. MEYERS, P.E. 8152

DATE	DESCRIPTION	REF. NO.
12/15/97	REVISED LAT. A-13 STATIONS	
10/3/97	ISSUED FOR CONSTRUCTION	N/A
7/14/97	ISSUED FOR BID	N/A

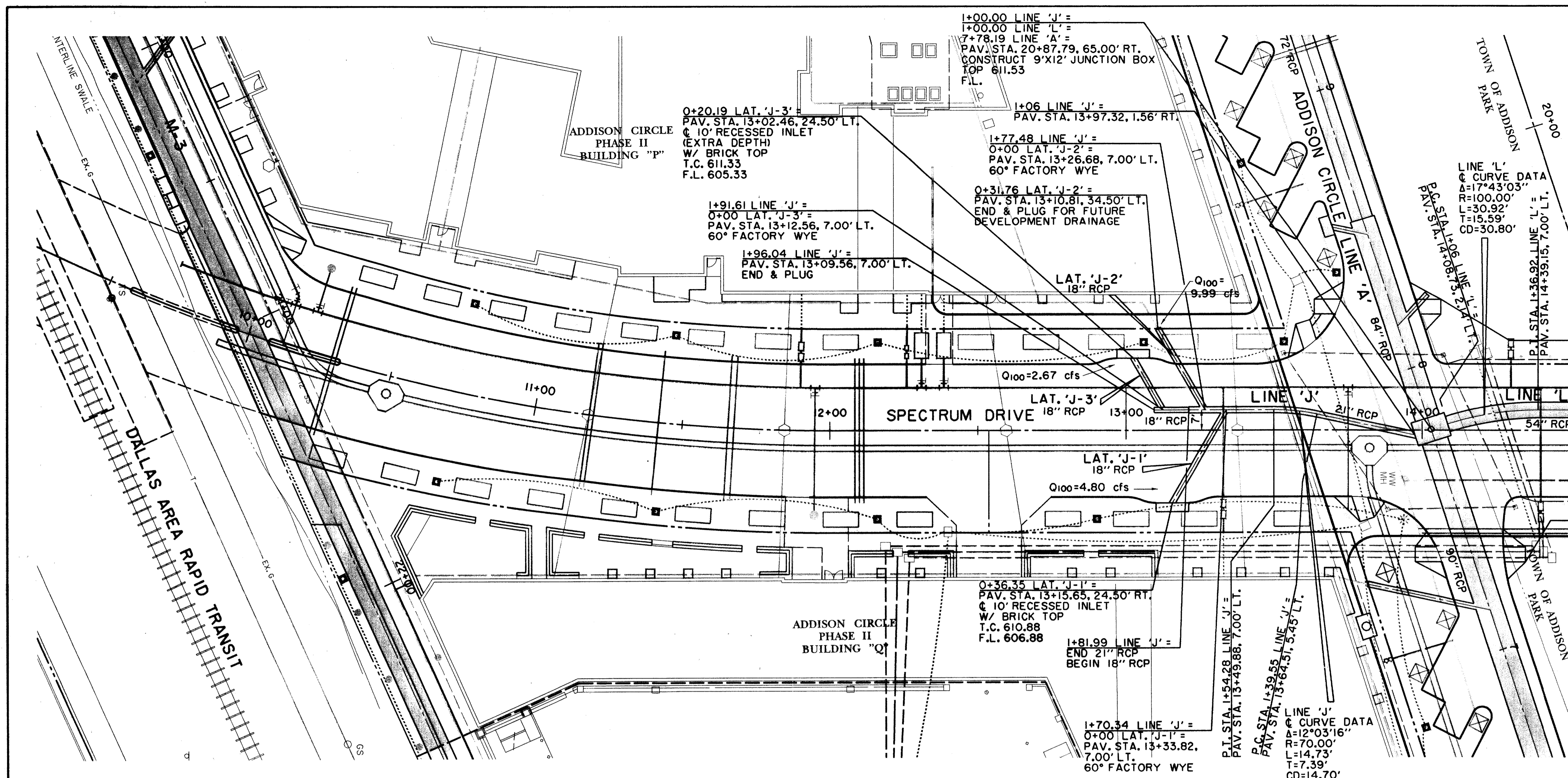
STORM WATER PLAN & PROFILE
LAT. 'A-13' STA. 1+00 TO STA. 2+25

ADDISON CIRCLE
PHASE II PUBLIC INFRASTRUCTURE
TOWN OF ADDISON, TEXAS

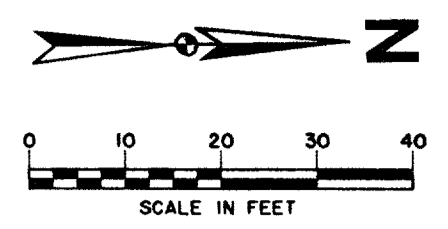
Huitt-Zollars, Inc./Engineering/Architecture
Dallas, Fort Worth, Houston, El Paso, Phoenix, Tustin, Ontario

DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	DEM	H ₁ 1"=20' V ₁ 1"=6'	OCT. 97	01-1822-21	SW14

PROJECT NO. 01-1822-21
 SHEET NO. SW14 OF 21
 DATE: OCTOBER 1997
 DRAWN BY: HZI
 CHECKED BY: DEM
 APPROVED BY: [Signature]
 HUIIT-ZOLLARS, INC.
 1200 WEST WILSON AVENUE, SUITE 100
 DALLAS, TEXAS 75203
 (214) 343-1100
 FAX (214) 343-1101
 WWW.HUIITZOLLARS.COM



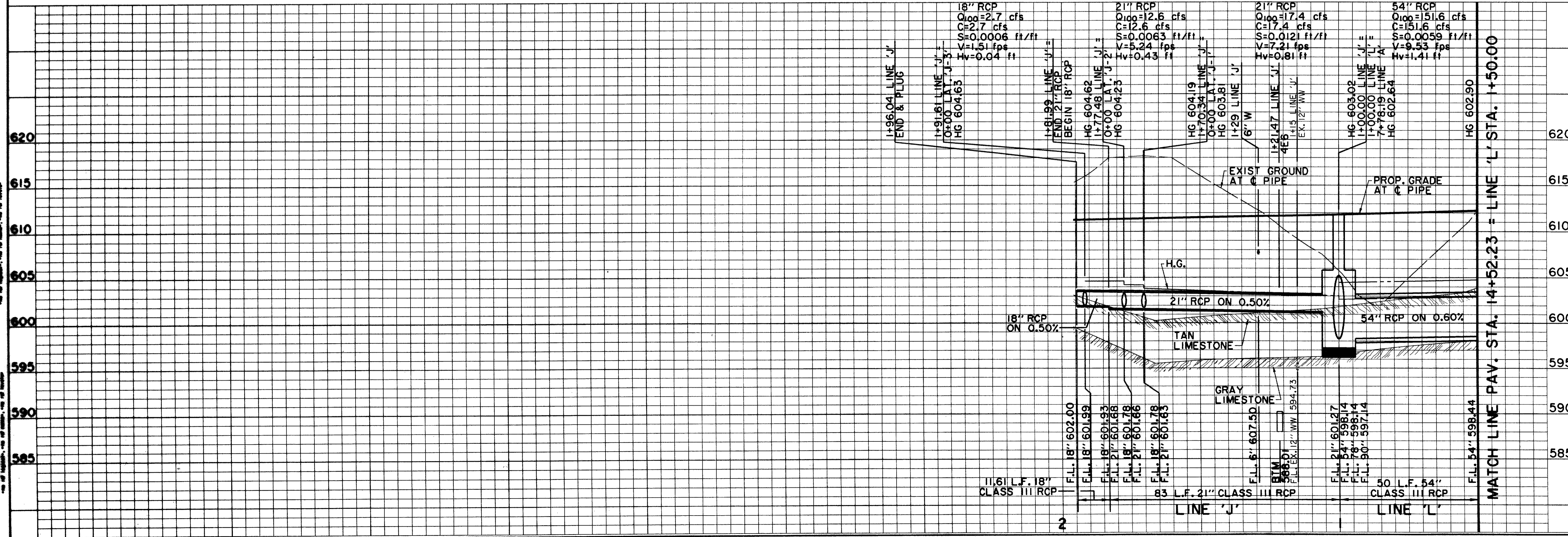
MATCH LINE PAV. STA. 14+52.23 = LINE 'L' STA. 1+50.00



LEGEND

	ELECTRIC — ONE —		MISC. 48" RCP
	○ LIGHT POLE		EX. STORM SEWER
	□ POWER POLE		CHAIN LINK FENCE
	— GUY WIRE		WOOD FENCE
	— TELEPHONE		EXISTING ASPHALT
	● TELEPHONE MANHOLE		EXISTING DIRT OR GRAVEL
	□ TELEPHONE PEDESTAL		EX. CONCRETE
	— GAS		TREE/TREE LINE
	○ GAS METER		EXISTING CURB
	○ GAS SIGN		PROP. CURB
	— LAND USE		PROP. EDGE OF PAVEMENT NO CURB
	— RAILROAD SIGN		EX. PROPERTY LINE
	— SIGN		PROP. CENTERLINE
	— SURVEY		PROP. R.O.W.
	— FOUND IRON ROD		PROP. INLET
	□ BENCHMARK		T.P. TOP OF PAVEMENT
	— WASTEWATER		T.C. TOP OF CURB
	● WASTEWATER MANHOLE		CR CURB RETURN
	○ CLEANOUT		EX. G. EXISTING GUTTER
	— WATER		EX. T.C. EXISTING TOP OF CURB
	○ FIRE HYDRANT		B-20 BORING LOCATION
	○ METER		EXISTING BRICKS
	○ WATER VALVE		PAVEMENT REMOVAL

RECORD DRAWING



BENCHMARKS:

BM#5
"C" CUT AT NORTHWEST CORNER OF NORTH HDWL. OF 7x7' BOX CULVERT UNDER RAILROAD, ±180' WEST OF DALLAS PARKWAY SOUTHBOUND. ELEV. 610.49

BM#6
"C" CUT AT CENTER FRONT OF 18" REG. INLET SECOND INLET NORTH OF RAILROAD TRACKS ON THE WEST SIDE OF DALLAS PARKWAY SOUTHBOUND. ELEV. 605.67

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY DAVID E. MEYERS, P.E. 81512

DATE	DESCRIPTION	REF. NO.
10/3/97	ISSUED FOR CONSTRUCTION	N/A
7/14/97	ISSUED FOR BID	N/A

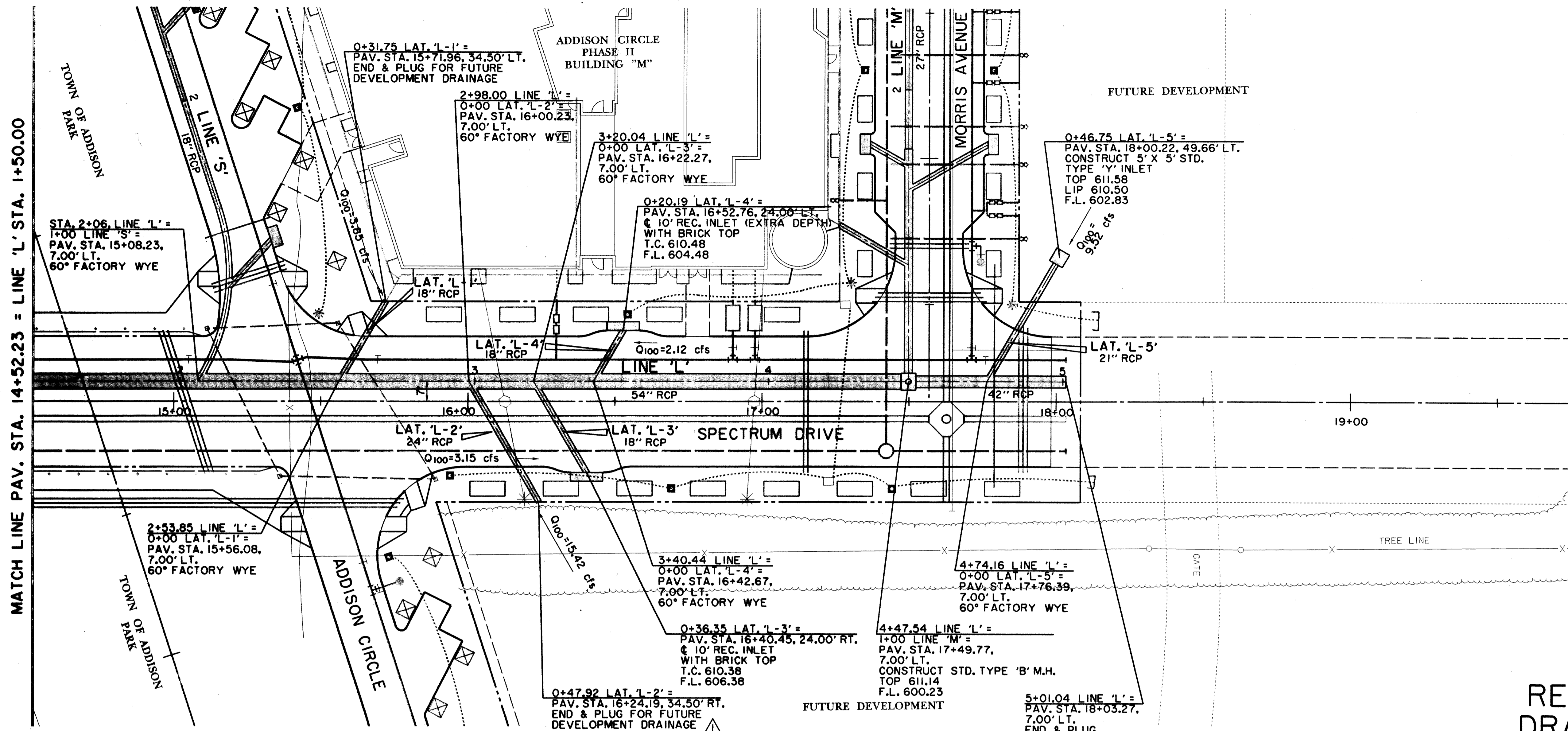
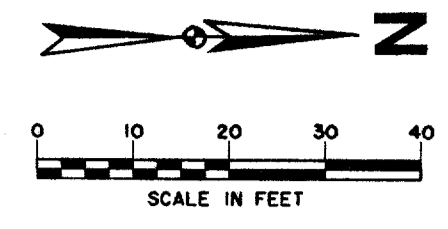
STORM WATER PLAN & PROFILE
LINE 'J' & LINE 'L' STA. 1+00 TO STA. 1+50

ADDISON CIRCLE
PHASE II PUBLIC INFRASTRUCTURE
TOWN OF ADDISON, TEXAS

Hull-Zollars, Inc./Engineering/Architecture
Dallas, Fort Worth, Houston, El Paso, Phoenix,ustin, Ontario

DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	DEM	H ₁ 1"=20' V ₁ 1"=6'	OCT. 97	01-1822-21	SW15

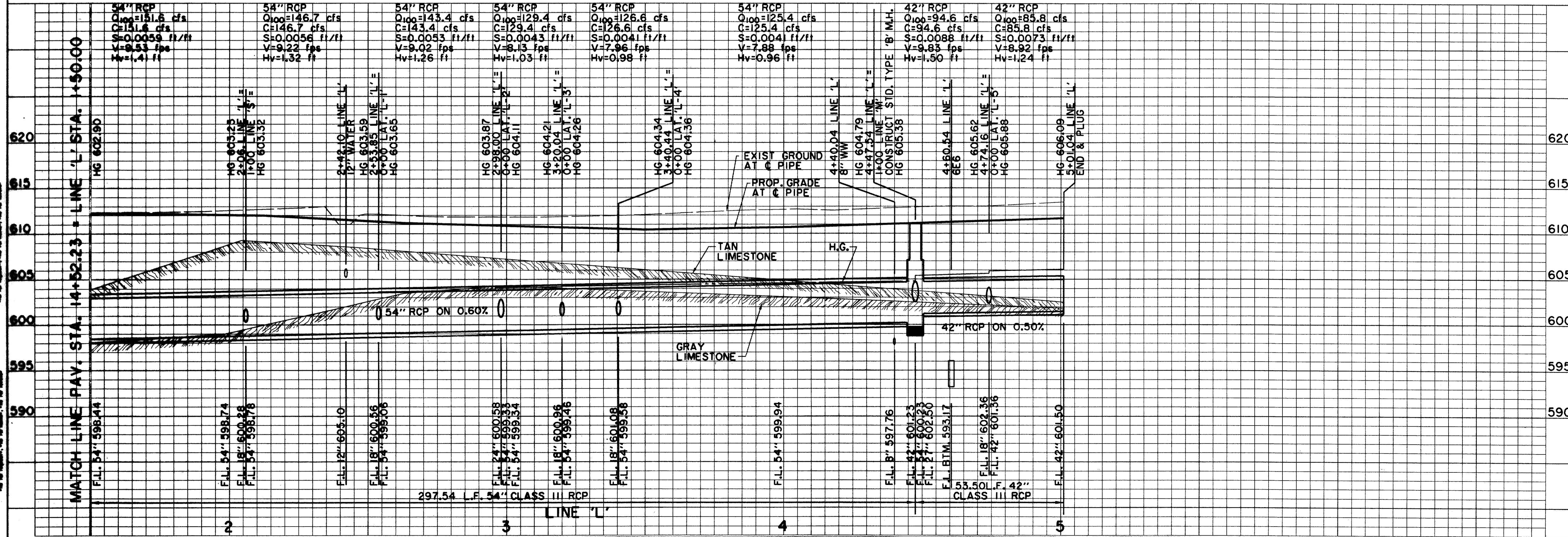
HULL-ZOLLARS, INC.
 11111 W. LAKELAND BLVD., SUITE 100
 FORT WORTH, TEXAS 76116
 (817) 335-1111
 FAX (817) 335-1112
 WWW.HULLZOLLARS.COM



LEGEND

	ELECTRIC — ONE		48" RCP		MISC. EX. STORM SEWER
	LIGHT POLE		CHAIN LINK FENCE		EXISTING ASPHALT
	POWER POLE		WOOD FENCE		EXISTING DIRT OR GRAVEL
	GUY WIRE		EX. CONCRETE		TREE/TREE LINE
	TELEPHONE		EXISTING CURB		PROP. CURB
	TELEPHONE MANHOLE		PROP. EDGE OF PAVEMENT NO CURB		EX. PROPERTY LINE
	TELEPHONE PEDESTAL		PROP. CENTERLINE		PROP. INLET
	TELEPHONE SIGN		PROP. R.O.W.		T.P. TOP OF PAVEMENT
	GAS		PROP. INLET		T.C. TOP OF CURB
	GAS METER		SIGN		CR CURB RETURN
	GAS SIGN		SURVEY		EX. G EXISTING GUTTER
	LAND USE		FOUND IRON ROD		EX. T.C. EXISTING TOP OF CURB
	RAILROAD SIGN		BENCHMARK		B-20 BORING LOCATION
	SIGN		WASTEWATER MANHOLE		EXISTING BRICKS
	FOUND IRON ROD		CLEANOUT		PAVEMENT REMOVAL
	BENCHMARK		WATER		
	WASTEWATER MANHOLE		FIRE HYDRANT		
	CLEANOUT		METER		
	WATER		WATER VALVE		

RECORD DRAWING



BENCHMARKS:

BM#5	"C" CUT AT NORTHWEST CORNER OF NORTH HDWL. OF 7'X7' BOX CULVERT UNDER RAILROAD, ±180' WEST OF DALLAS PARKWAY SOUTHBOUND, ELEV. 610.49
BM#6	"C" CUT AT CENTER FRONT OF 18' REC. INLET, SECOND INLET NORTH OF RAILROAD TRACKS ON THE WEST SIDE OF DALLAS PARKWAY SOUTHBOUND, ELEV. 605.67

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY DAVID E. MEYERS, P.E. 81512

DATE	DESCRIPTION	REF. NO.
2/18/98	REVISED LAT. 'L-2' STATIONING	
10/3/97	ISSUED FOR CONSTRUCTION	N/A
7/14/97	ISSUED FOR BID	N/A

STORM WATER PLAN & PROFILE
LINE 'L' STA. 1+50 TO STA. 5+01.04

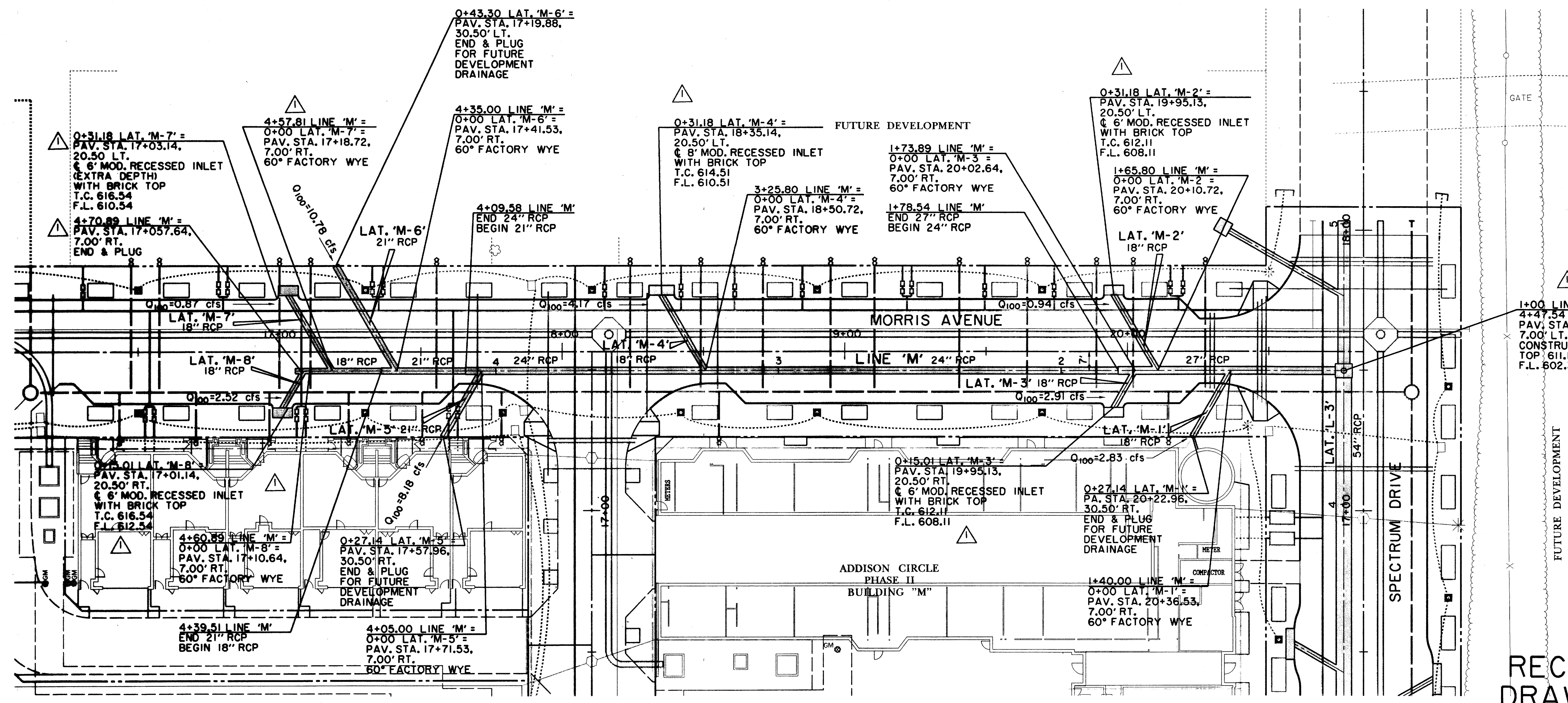
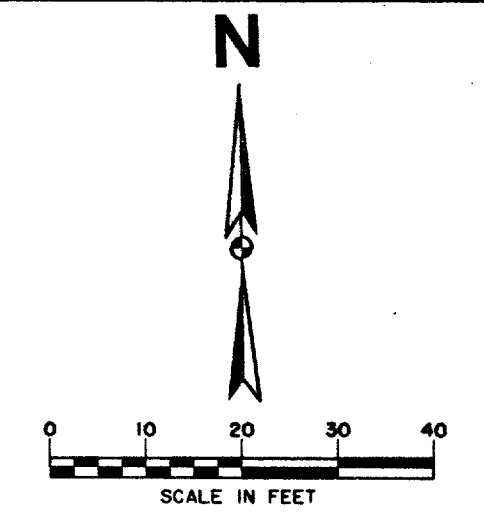
ADDISON CIRCLE
PHASE II PUBLIC INFRASTRUCTURE
TOWN OF ADDISON, TEXAS

Huitt-Zollers, Inc./Engineering/Architecture
Dallas, Fort Worth, Houston, El Paso, Phoenix, Tustin, Ontario

DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	DEM	H ₁ 1"=20' V ₁ 1"=6'	OCT. 97	01-1822-21	SWIG

PROJECT NO. 01-1822-21
 DATE: 10/3/97
 DRAWN BY: HZI
 CHECKED BY: DEM
 PROJECT: ADDISON CIRCLE PHASE II PUBLIC INFRASTRUCTURE
 TOWN OF ADDISON, TEXAS

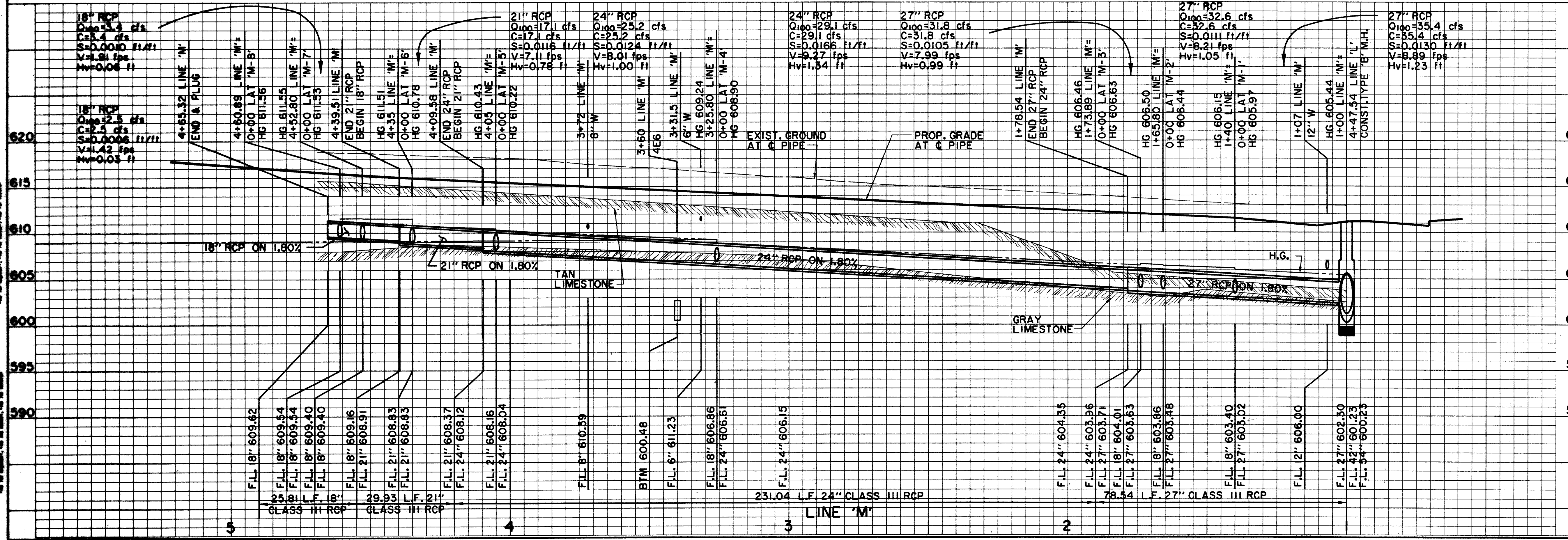
HUIIT-ZOLLERS, INC. ENGINEERING/ARCHITECTURE
 1100 WEST WILSON AVENUE, SUITE 100
 DALLAS, TEXAS 75207
 TEL: 214-343-1100
 FAX: 214-343-1101
 WWW: WWW.HUIIT-ZOLLERS.COM



LEGEND

	ELECTRIC — ONE		
	LIGHT POLE		MISC. EX. STORM SEWER
	POWER POLE		CHAIN LINK FENCE
	GUY WIRE		WOOD FENCE
	TELEPHONE MANHOLE		EXISTING ASPHALT
	TELEPHONE PEDESTAL		EXISTING DIRT OR GRAVEL
	TELEPHONE SIGN		EX. CONCRETE
	GAS		TREE/TREE LINE
	GAS METER		EXISTING CURB
	GAS SIGN		PROP. CURB
	LAND USE		PROP. EDGE OF PAVEMENT NO CURB
	RAILROAD SIGN		PROP. CENTERLINE
	SURVEY FOUND IRON ROD		PROP. R.O.W.
	BENCHMARK		PROP. INLET
	WASTEWATER MANHOLE		T.P. TOP OF PAVEMENT
	CLEANOUT		T.C. TOP OF CURB
	WATER		CR CURB RETURN
	FIRE HYDRANT		EX. G EXISTING GUTTER
	METER		B-20 BORING LOCATION
	WATER VALVE		EXISTING BRICKS
			PAVEMENT REMOVAL

RECORD DRAWING



BENCHMARKS:

BM#4
"D" CUT AT CENTER OF CURB INLET, 1015 FEET NORTH FROM THE CENTERLINE INTERSECTION OF MILDRED STREET, WEST SIDE OF QUORUM DRIVE. ELEV. 629.36

BM#5
"T" CUT AT NORTHWEST CORNER OF NORTH HWY. OF 7'X7' BOX CULVERT UNDER RAILROAD, ±180' WEST OF DALLAS PARKWAY SOUTHBOUND. ELEV. 610.49

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY DAVID E. MEYERS, P.E. 81512

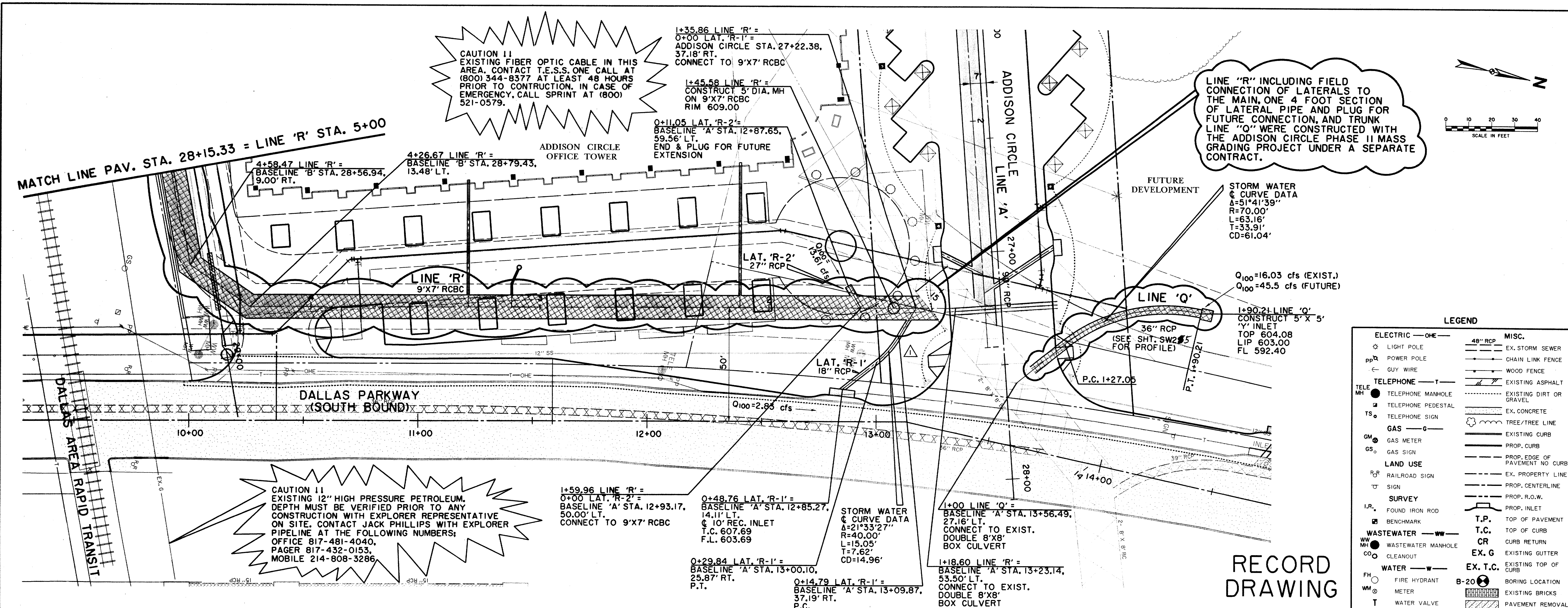
DATE	DESCRIPTION	REF. NO.
3/11/98	REVISED INLET OFFSETS	
10/3/97	ISSUED FOR CONSTRUCTION	N/A
7/14/97	ISSUED FOR BID	N/A

STORM WATER PLAN & PROFILE
LINE 'M' STA. 1+00 TO STA. 4+63.89

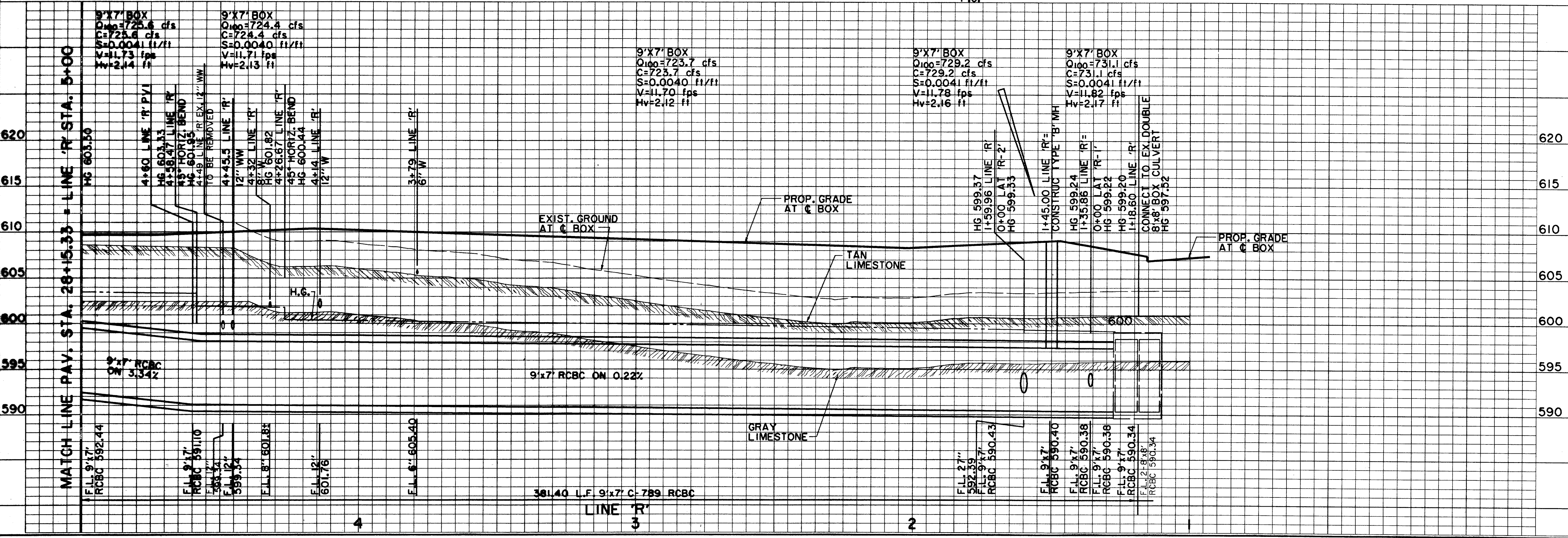
ADDISON CIRCLE
PHASE II PUBLIC INFRASTRUCTURE
TOWN OF ADDISON, TEXAS

Huitt-Zollers, Inc./Engineering/Architecture
Dallas, Fort Worth, Houston, El Paso, Phoenix, Tustin, Ontario

DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	DEM	H _v 1"=20' V _h 1"=6'	OCT. 97	01-1822-21	SW17



RECORD DRAWING



BENCHMARKS:

BM#5
"C" CUT AT NORTHWEST CORNER OF NORTH HDWL. OF 7'X7' BOX CULVERT UNDER RAILROAD, 180' WEST OF DALLAS PARKWAY SOUTHBOUND, ELEV. 610.49

BM#6
"C" CUT AT CENTER FRONT OF 18" REC. INLET, SECOND INLET NORTH OF RAILROAD TRACKS ON THE WEST SIDE OF DALLAS PARKWAY SOUTHBOUND, ELEV. 605.67

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY DAVID E. MEYERS, P.E. 81512

DATE	DESCRIPTION	REF. NO.
1/28/98	REVISED INLET R-1	
10/3/97	ISSUED FOR CONSTRUCTION	N/A
7/14/97	ISSUED FOR BID	N/A

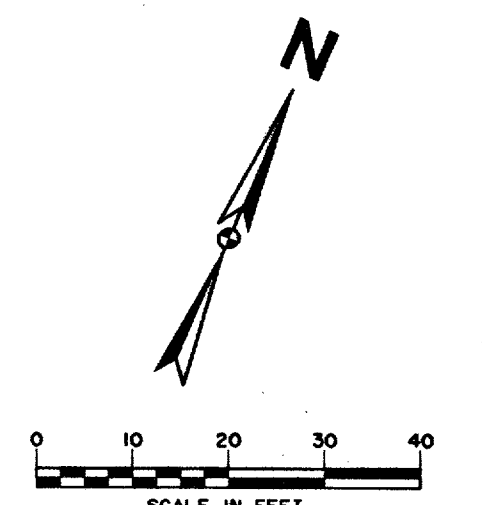
STORM WATER PLAN & PROFILE
LINE 'R' STA. 1+13.02 TO STA. 5+00

ADDISON CIRCLE
PHASE II PUBLIC INFRASTRUCTURE
TOWN OF ADDISON, TEXAS

Hull-Hollers, Inc./Engineering/Architecture
Dallas, Fort Worth, Houston, El Paso, Phoenix, Tulsa, Ontario

DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	DEM	H ₁ :1"=20' V ₁ :1"=6'	OCT. 97	01-1822-21	SW18

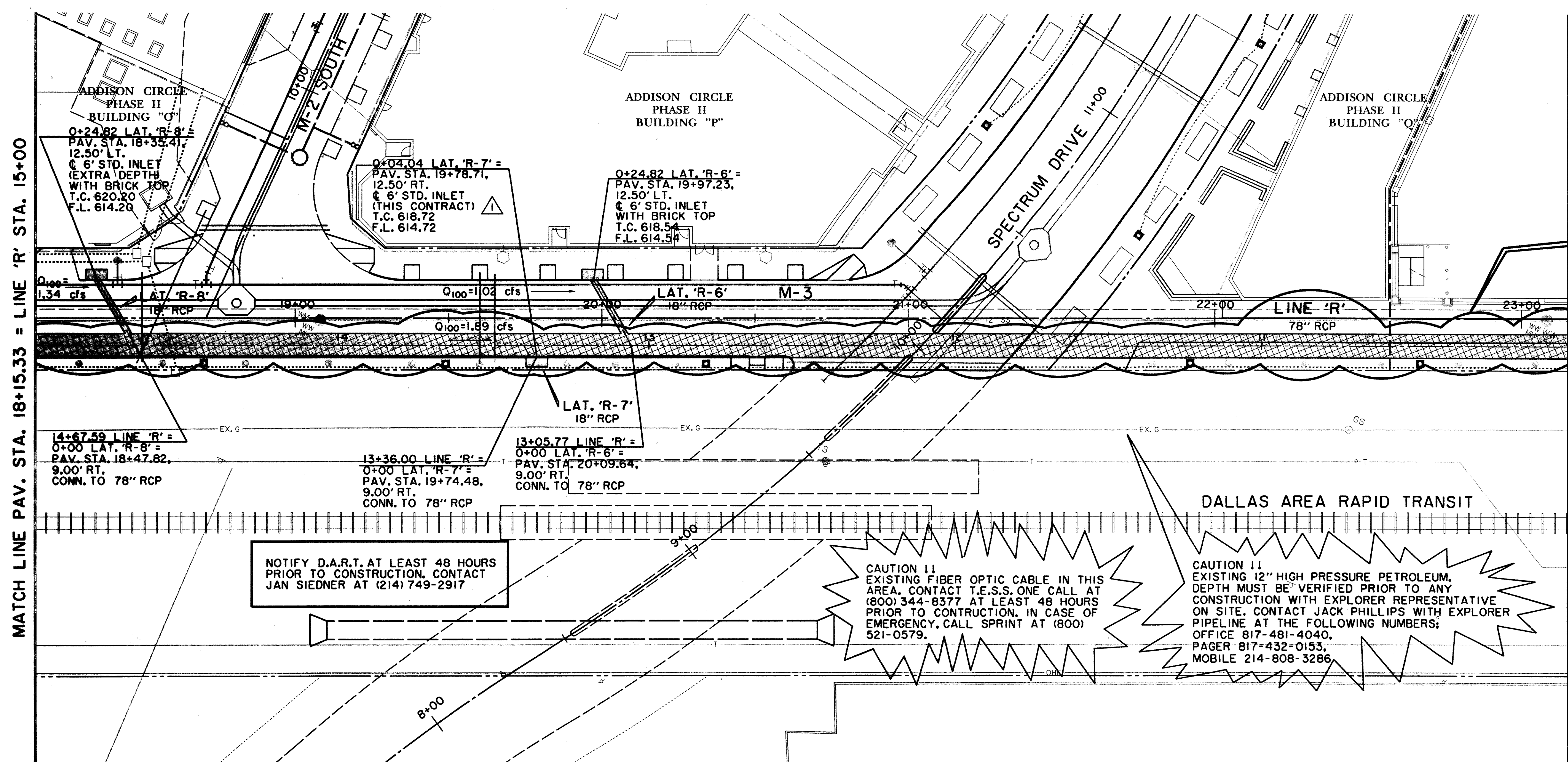
14/01/01182221.dgn/AUC20G11.DGN



MATCH LINE PAV. STA. 18+15.33 = LINE 'R' STA. 15+00

MATCH LINE PAV. STA. 23+15.33 = LINE 'R' STA. 10+00

LINE "R" INCLUDING FIELD CONNECTION OF LATERALS TO THE MAIN, LATERALS AND DROP INLETS AS NOTED WERE CONSTRUCTED WITH THE ADDISON CIRCLE PHASE II MASS GRADING PROJECT UNDER A SEPARATE CONTRACT.



NOTIFY D.A.R.T. AT LEAST 48 HOURS PRIOR TO CONSTRUCTION. CONTACT JAN SIEDNER AT (214) 749-2917

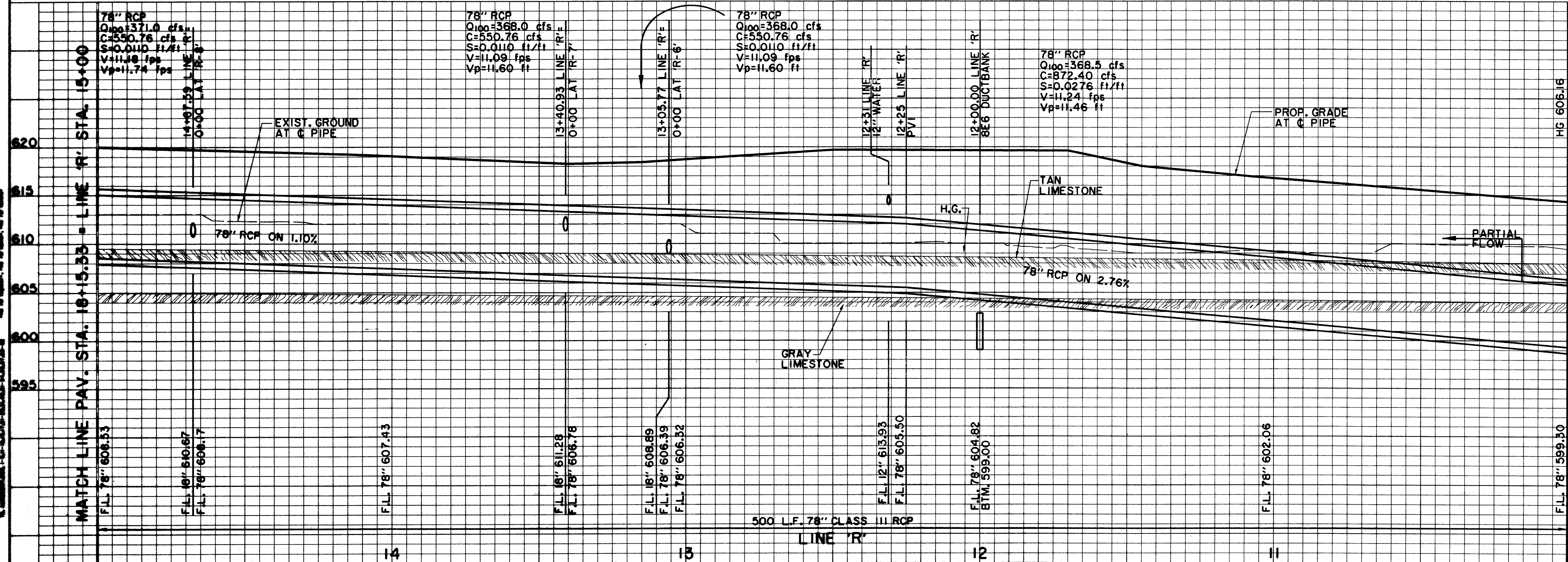
CAUTION !! EXISTING FIBER OPTIC CABLE IN THIS AREA. CONTACT T.E.S.S. ONE CALL AT (800) 344-8377 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION. IN CASE OF EMERGENCY, CALL SPRINT AT (800) 521-0579.

CAUTION !! EXISTING 12" HIGH PRESSURE PETROLEUM. DEPTH MUST BE VERIFIED PRIOR TO ANY CONSTRUCTION WITH EXPLORER REPRESENTATIVE ON SITE. CONTACT JACK PHILLIPS WITH EXPLORER PIPELINE AT THE FOLLOWING NUMBERS: OFFICE 817-481-4040, PAGER 817-432-0153, MOBILE 214-808-3286.

LEGEND

ELECTRIC — OHE	MISC.
○ LIGHT POLE	48" RCP
PPR POWER POLE	EX. STORM SEWER
— GUY WIRE	CHAIN LINK FENCE
TELEPHONE — T	WOOD FENCE
TELEPHONE MANHOLE	EXISTING ASPHALT
TELEPHONE PEDESTAL	EXISTING DIRT OR GRAVEL
TELEPHONE SIGN	EX. CONCRETE
GAS — G	TREE/TREE LINE
GAS METER	EXISTING CURB
GAS SIGN	PROP. CURB
LAND USE	PROP. EDGE OF PAVEMENT NO CURB
RAILROAD SIGN	EX. PROPERTY LINE
SIGN	PROP. CENTERLINE
SURVEY	PROP. R.O.W.
FOUND IRON ROD	PROP. INLET
BENCHMARK	T.P.
WASTEWATER — WW	T.C.
WASTEWATER MANHOLE	TOP OF CURB
CLEANOUT	CR
WATER — W	CURB RETURN
FIRE HYDRANT	EXISTING GUTTER
METER	EX. T.C.
WATER VALVE	B-20
	BORING LOCATION
	EXISTING BRICKS
	PAVEMENT REMOVAL

RECORD DRAWING



BENCHMARKS:

BM#5
"C" CUT AT NORTHWEST CORNER OF NORTH HDWL. OF 7'x7' BOX CULVERT UNDER RAILROAD, ±180' WEST OF DALLAS PARKWAY SOUTHBOUND. ELEV. 610.49

BM#6
"C" CUT AT CENTER FRONT OF 18" REC. INLET, SECOND INLET NORTH OF RAILROAD TRACKS ON THE WEST SIDE OF DALLAS PARKWAY SOUTHBOUND. ELEV. 605.67

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY DAVID E. MEYERS, P.E. 81512

DATE	DESCRIPTION	REF NO.
10/3/97	ISSUED FOR CONSTRUCTION	N/A
9/30/97	INLET 'R-7' ADDED TO THIS CONTRACT	N/A
7/14/97	ISSUED FOR BID	N/A

STORM WATER PLAN & PROFILE
LINE 'R' STA. 10+00 TO STA. 15+00

ADDISON CIRCLE
PHASE II PUBLIC INFRASTRUCTURE
TOWN OF ADDISON, TEXAS

Huitt-Zollars, Inc./Engineering/Architecture
Dallas, Fort Worth, Houston, El Paso, Phoenix, Tustin, Ontario

DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	DEM	H ₁ 1"=20' V ₁ 1"=6'	OCT. 97	01-1822-21	SW20

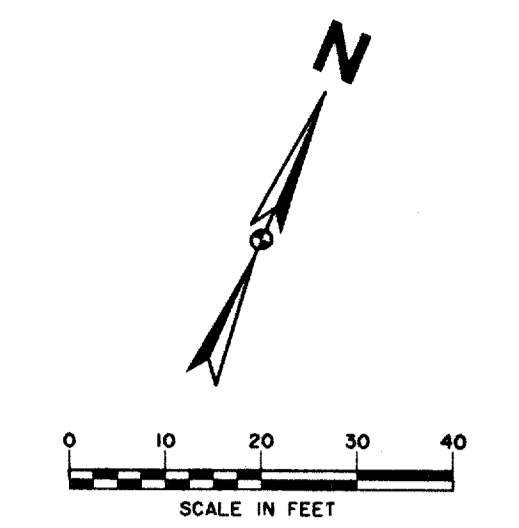
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PLOTTER: HP-GL/PS
PLOT SCALE: 1"=100'

DATE PLOTTED: 11/08/00 11:58:37 AM
PLOT FILE: C:\ADDON\ADDON\ADDON.DWG
PLOTTER: HP-GL/PS
PLOT SCALE: 1"=100'

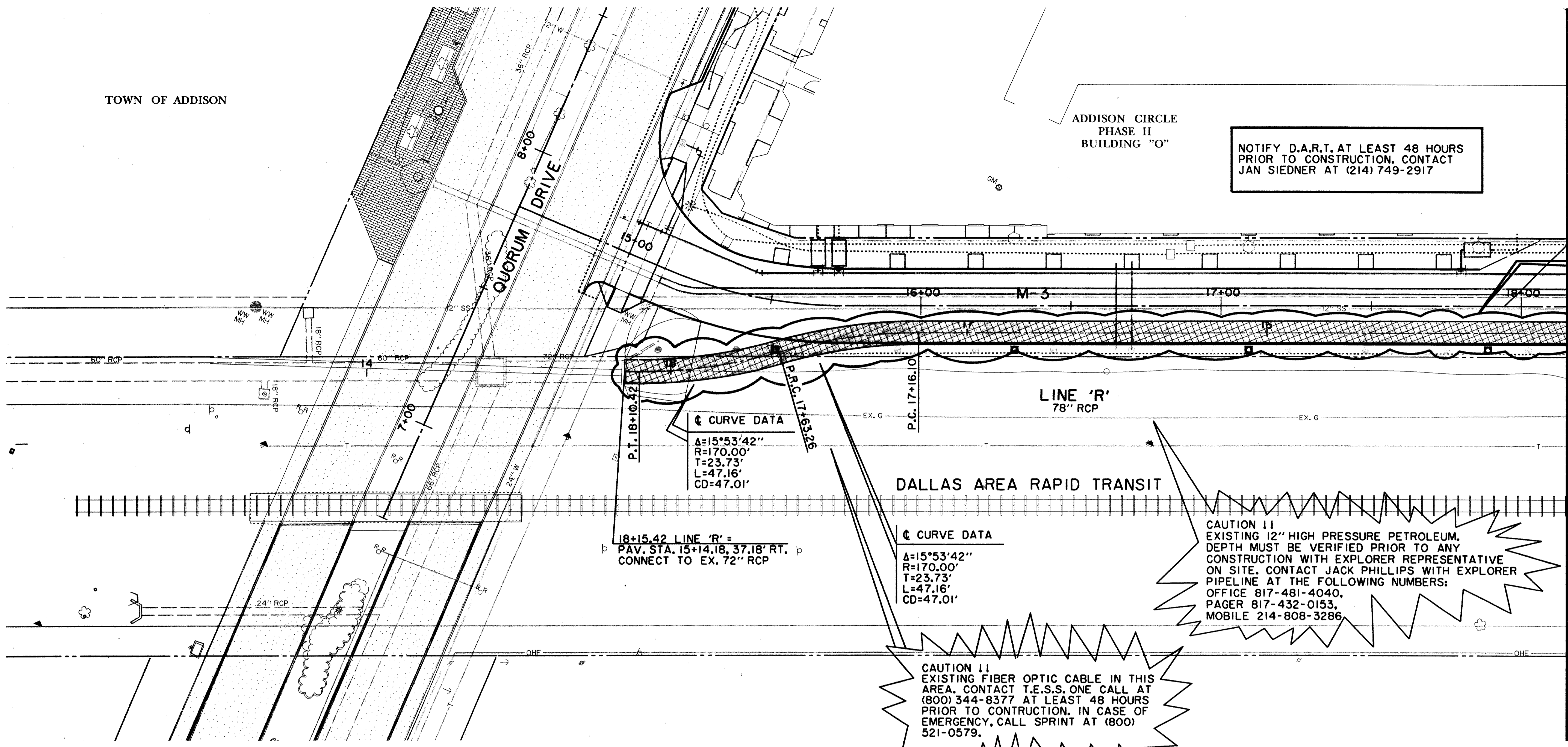
TOWN OF ADDISON

ADDISON CIRCLE
PHASE II
BUILDING "O"

NOTIFY D.A.R.T. AT LEAST 48 HOURS
PRIOR TO CONSTRUCTION. CONTACT
JAN SIEDNER AT (214) 749-2917



TRUNK LINE "R" AND CONNECTION
TO EXIST. 72" RCP WERE CONSTRUCTED
WITH THE ADDISON CIRCLE PHASE II
MASS GRADING PROJECT UNDER A
SEPARATE CONTRACT.



☺ CURVE DATA
Δ=15°53'42"
R=170.00'
T=23.73'
L=47.16'
CD=47.01'

DALLAS AREA RAPID TRANSIT

☺ CURVE DATA
Δ=15°53'42"
R=170.00'
T=23.73'
L=47.16'
CD=47.01'

CAUTION !!
EXISTING 12" HIGH PRESSURE PETROLEUM.
DEPTH MUST BE VERIFIED PRIOR TO ANY
CONSTRUCTION WITH EXPLORER REPRESENTATIVE
ON SITE. CONTACT JACK PHILLIPS WITH EXPLORER
PIPELINE AT THE FOLLOWING NUMBERS:
OFFICE 817-481-4040,
PAGER 817-432-0153,
MOBILE 214-808-3286.

CAUTION !!
EXISTING FIBER OPTIC CABLE IN THIS
AREA. CONTACT T.E.S.S. ONE CALL AT
(800) 344-8377 AT LEAST 48 HOURS
PRIOR TO CONSTRUCTION. IN CASE OF
EMERGENCY, CALL SPRINT AT (800)
521-0579.

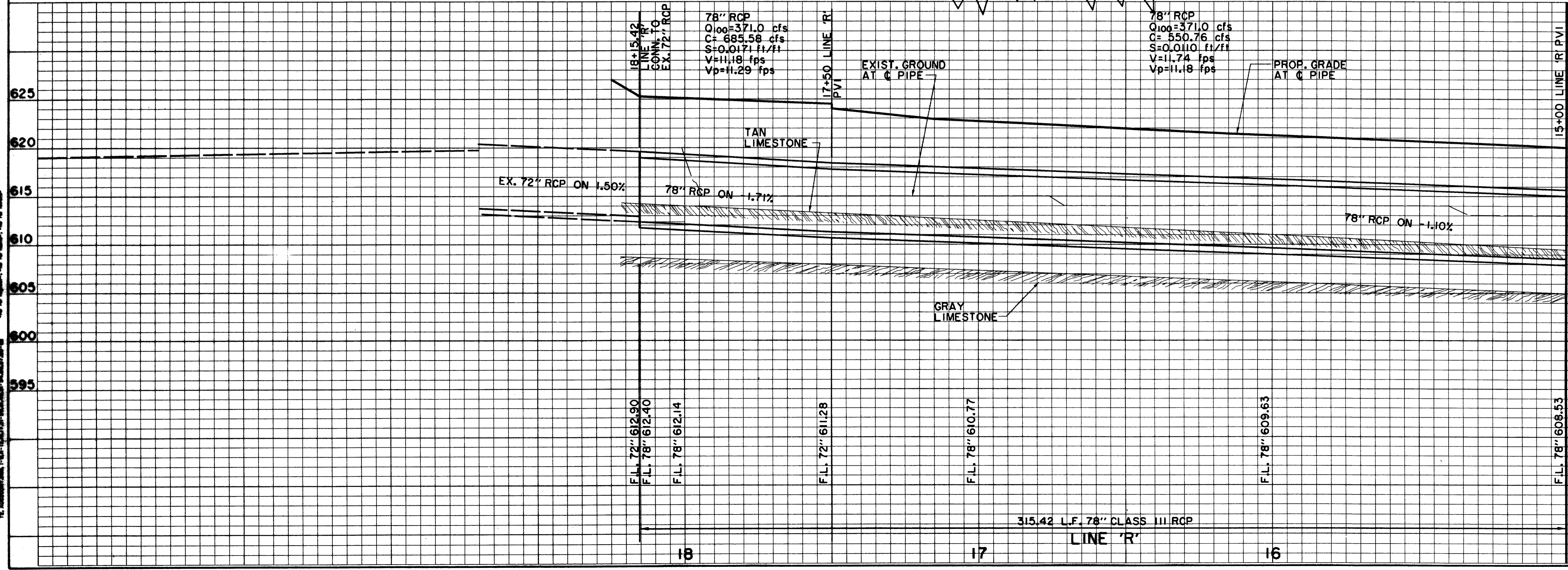
18+15.42 LINE 'R' =
PAV. STA. 15+14.18, 37.18' RT.
CONNECT TO EX. 72" RCP

MATCH LINE PAV. STA. 18+15.33 = LINE 'R' STA. 15+00

RECORD
DRAWING

LEGEND

⊙ LIGHT POLE	48" RCP	MISC.
⊙ POWER POLE	EX. STORM SEWER	
⊙ GUY WIRE	CHAIN LINK FENCE	
⊙ TELEPHONE	WOOD FENCE	
⊙ TELEPHONE MANHOLE	EXISTING ASPHALT	
⊙ TELEPHONE PEDESTAL	EXISTING DIRT OR GRAVEL	
⊙ TELEPHONE SIGN	EX. CONCRETE	
⊙ GAS	TREE/TREE LINE	
⊙ GAS METER	EXISTING CURB	
⊙ GAS SIGN	PROP. CURB	
LAND USE	PROP. EDGE OF PAVEMENT NO CURB	
⊙ RAILROAD SIGN	EX. PROPERTY LINE	
⊙ SIGN	PROP. CENTERLINE	
⊙ SURVEY	PROP. R.O.W.	
⊙ FOUND IRON ROD	PROP. INLET	
⊙ BENCHMARK	T.P.	
⊙ WASTEWATER	T.C.	
⊙ WASTEWATER MANHOLE	CR	
⊙ CLEANOUT	EX. G	
⊙ WATER	EX. T.C.	
⊙ FIRE HYDRANT	B-20	
⊙ METER	EXISTING BRICKS	
⊙ WATER VALVE	PAVEMENT REMOVAL	



BENCHMARKS:
BM#1
"C" CUT AT CENTER BACK OF
CURB OF INLET, 190 FEET
SOUTH FROM THE CENTERLINE
INTERSECTION OF MILDRED
STREET, WEST SIDE OF QUORUM
DRIVE.
ELEV. 621.89
BM#4
"C" CUT AT CENTER OF CURB
INLET, 1015 FEET NORTH FROM
THE CENTERLINE INTERSECTION
OF MILDRED STREET, WEST
SIDE OF QUORUM DRIVE.
ELEV. 629.36

THE SEAL APPEARING ON THIS
DOCUMENT WAS AUTHORIZED BY
DAVID E. MEYERS, P.E. 81512

DATE	DESCRIPTION	REF. NO.
10/3/97	ISSUED FOR CONSTRUCTION	N/A
7/14/97	ISSUED FOR BID	N/A

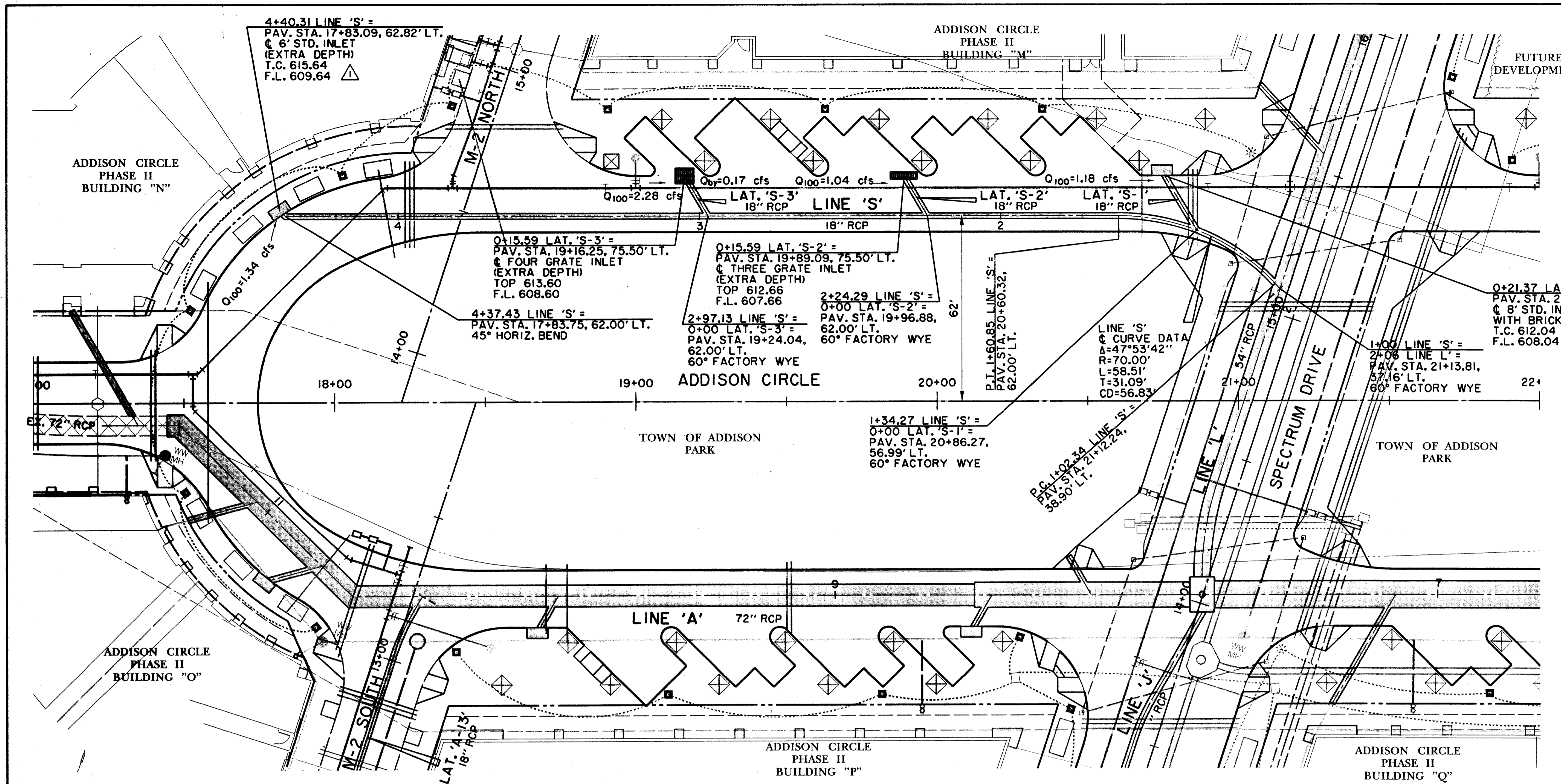
STORM WATER PLAN & PROFILE
LINE 'R' STA. 15+00 TO STA. 18+14.14

ADDISON CIRCLE
PHASE II PUBLIC INFRASTRUCTURE
TOWN OF ADDISON, TEXAS

Huitt-Zollars, Inc./Engineering/Architecture
Dallas, Fort Worth, Houston, El Paso, Phoenix, Tustin, Ontario

DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	DEM	H ₁ 1"=20' V ₁ 1"=8'	OCT. 97	01-1822-21	SW21

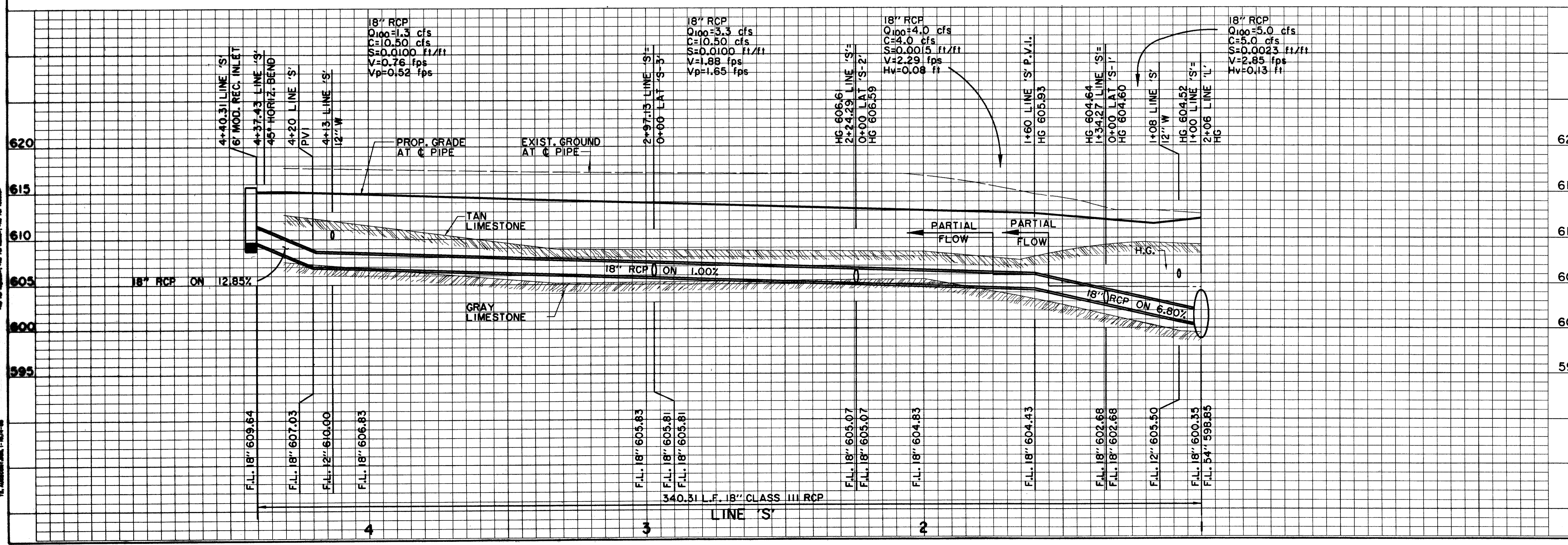
Huitt-Zollars, Inc. 1800 North Loop West, Suite 1000, Houston, Texas 77010
 Huitt-Zollars, Inc. 1800 North Loop West, Suite 1000, Houston, Texas 77010
 Huitt-Zollars, Inc. 1800 North Loop West, Suite 1000, Houston, Texas 77010



**RECORD
DRAWING**

LEGEND

	ELECTRIC — O —		48" RCP
	○ LIGHT POLE		EX. STORM SEWER
	pp ○ POWER POLE		CHAIN LINK FENCE
	— GUY WIRE		WOOD FENCE
	TELEPHONE — T —		EXISTING ASPHALT
	TELEPHONE MANHOLE		EXISTING DIRT OR GRAVEL
	TELEPHONE PEDESTAL		EX. CONCRETE
	TELEPHONE SIGN		TREE/TREE LINE
	GAS — G —		EXISTING CURB
	GAS METER		PROP. CURB
	GAS SIGN		PROP. EDGE OF PAVEMENT NO CURB
	LAND USE		EX. PROPERTY LINE
	RAILROAD SIGN		PROP. CENTERLINE
	SIGN		PROP. R.O.W.
	SURVEY		PROP. INLET
	FOUND IRON ROD		T.P. TOP OF PAVEMENT
	BENCHMARK		T.C. TOP OF CURB
	WASTEWATER — WW —		CR CURB RETURN
	WASTEWATER MANHOLE		EX. G EXISTING GUTTER
	CLEANOUT		EX. T.C. EXISTING TOP OF CURB
	WATER — W —		B-20 BORING LOCATION
	FIRE HYDRANT		EXISTING BRICKS
	METER		PAVEMENT REMOVAL
	WATER VALVE		



BENCHMARKS:

BM#1 'D' CUT AT CENTER BACK OF CURB OF INLET, 190 FEET SOUTH FROM THE CENTERLINE INTERSECTION OF MILDRED STREET, WEST SIDE OF QUORUM DRIVE. ELEV. 621.89

BM#4 'D' CUT AT CENTER OF CURB INLET, 1015 FEET NORTH FROM THE CENTERLINE INTERSECTION OF MILDRED STREET, WEST SIDE OF QUORUM DRIVE. ELEV. 629.36

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY DAVID E. MEYERS, P.E. 81512

DATE	DESCRIPTION	REF NO.
3/17/98	REVISED INLET STATION & OFFSET	▲
10/3/97	ISSUED FOR CONSTRUCTION	N/A
7/14/97	ISSUED FOR BID	N/A

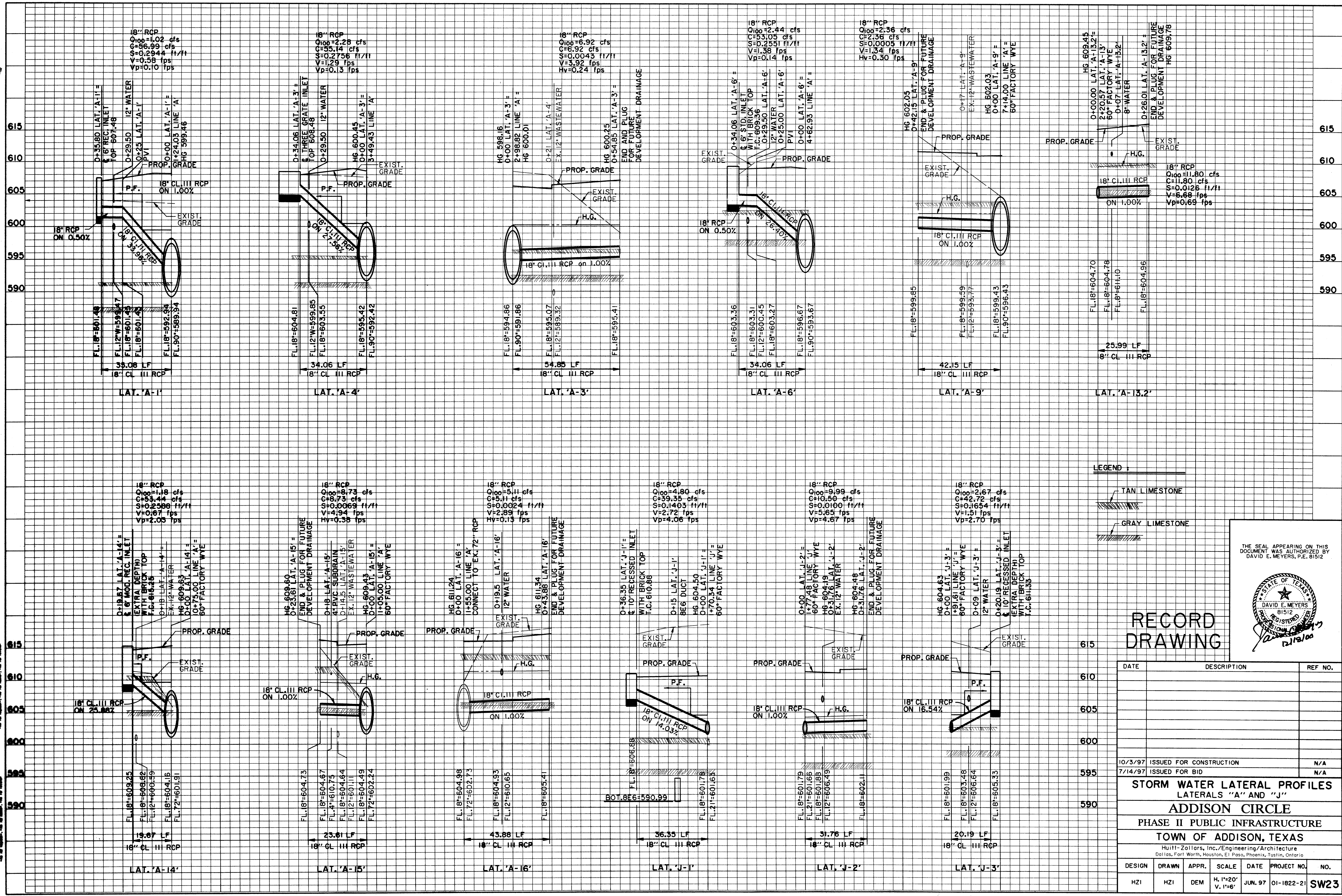
STORM WATER PLAN & PROFILE
LINE 'S' STA. 1+00 TO STA. 4+30.59

ADDISON CIRCLE
PHASE II PUBLIC INFRASTRUCTURE
TOWN OF ADDISON, TEXAS

Huitt-Zollars, Inc./Engineering/Architecture
Dallas, Fort Worth, Houston, El Paso, Phoenix, Tustin, Ontario

DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	DEM	H: 1"=20' V: 1"=6'	OCT. 97	01-1822-21	SW22

DATE PLOTTED: 10/3/97
 PLOT BY: J. MEYERS
 PROJECT: STORM WATER LATERAL PROFILES
 SHEET: 11 OF 11

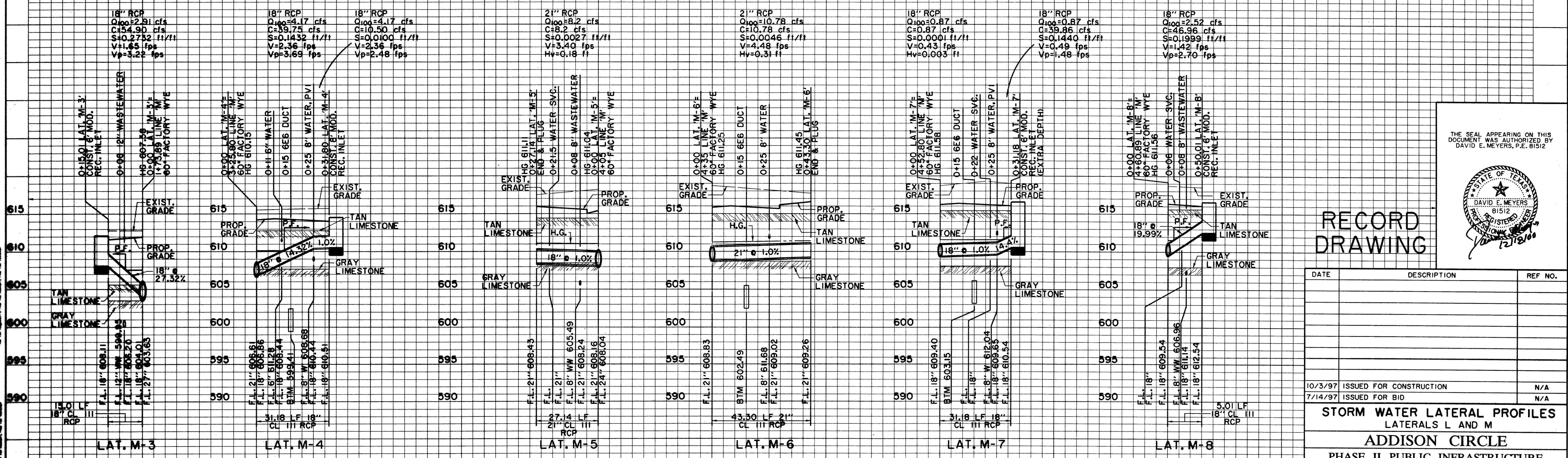
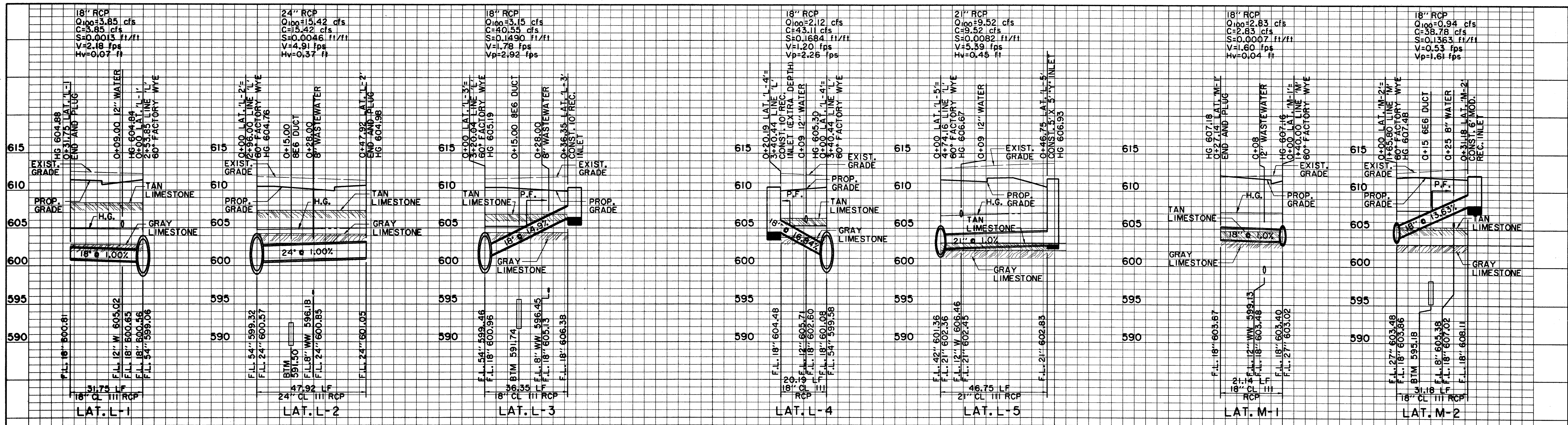


LEGEND:
 TAN LIMESTONE
 GRAY LIMESTONE

RECORD DRAWING

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY DAVID E. MEYERS, P.E. 81512

DATE	DESCRIPTION	REF. NO.				
10/3/97	ISSUED FOR CONSTRUCTION	N/A				
7/14/97	ISSUED FOR BID	N/A				
STORM WATER LATERAL PROFILES						
LATERALS "A" AND "J"						
ADDISON CIRCLE						
PHASE II PUBLIC INFRASTRUCTURE						
TOWN OF ADDISON, TEXAS						
<small>Huil- Zollars, Inc./Engineering/Architecture Dallas, Fort Worth, Houston, El Paso, Phoenix, Tustin, Ontario</small>						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	DEM	H, 1"=20' V, 1"=6'	JUN. 97	01-1822-21	SW23



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY DAVID E. MEYERS, P.E. 81512

RECORD DRAWING

DATE	DESCRIPTION	REF. NO.
10/3/97	ISSUED FOR CONSTRUCTION	N/A
7/14/97	ISSUED FOR BID	N/A

**STORM WATER LATERAL PROFILES
LATERALS L AND M**

ADDISON CIRCLE

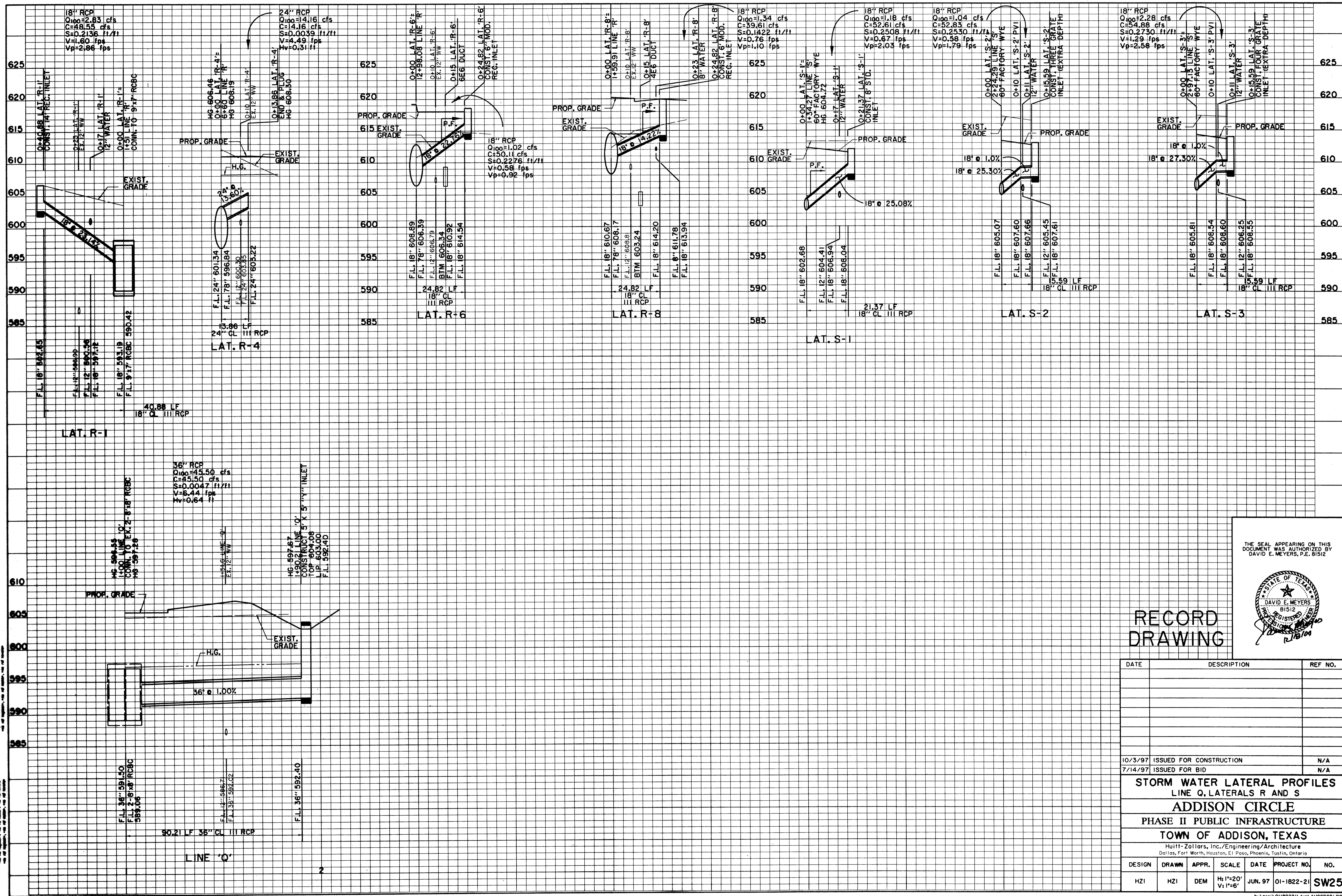
**PHASE II PUBLIC INFRASTRUCTURE
TOWN OF ADDISON, TEXAS**

Huitt-Zollars, Inc./Engineering/Architecture
Dallas, Fort Worth, Houston, El Paso, Phoenix, Tustin, Ontario

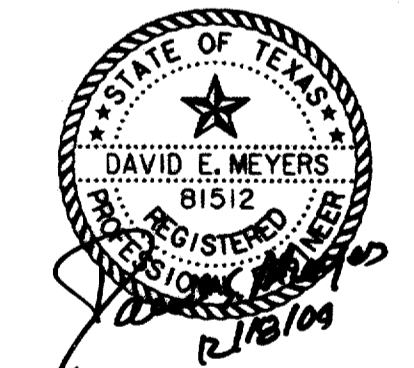
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HZI	HZI	DEM	H: 1"=20' V: 1"=6'	JUN. 97	01-1822-21	SW24

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THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY DAVID E. MEYERS, P.E. 81512

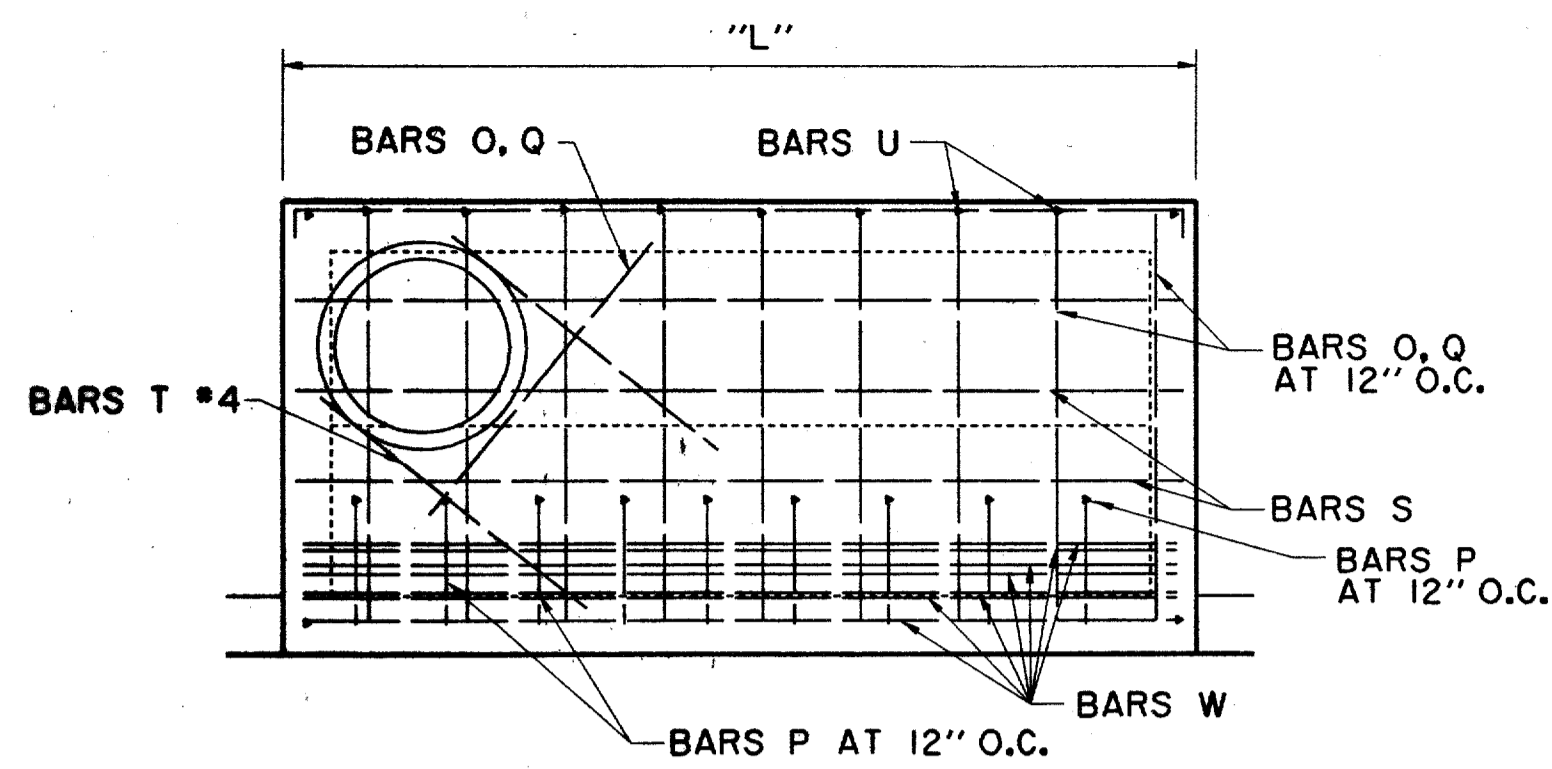


THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY DAVID E. MEYERS, P.E. 81512

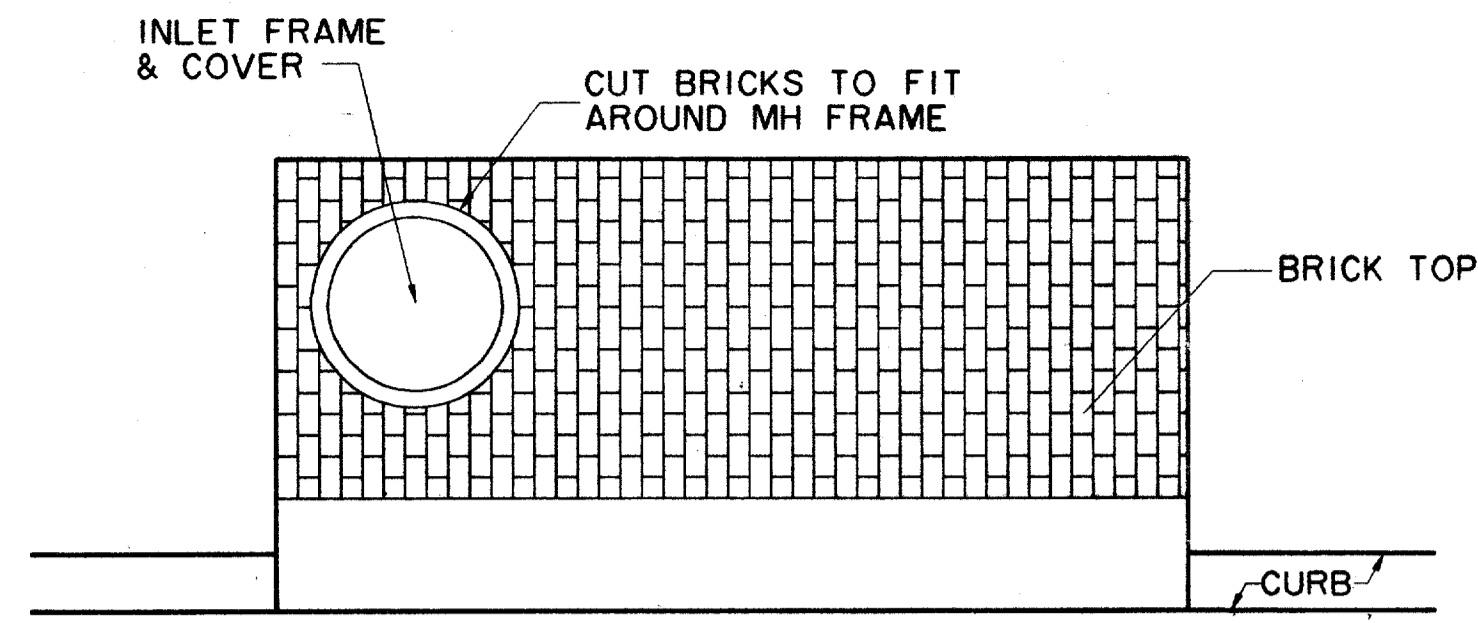


RECORD DRAWING

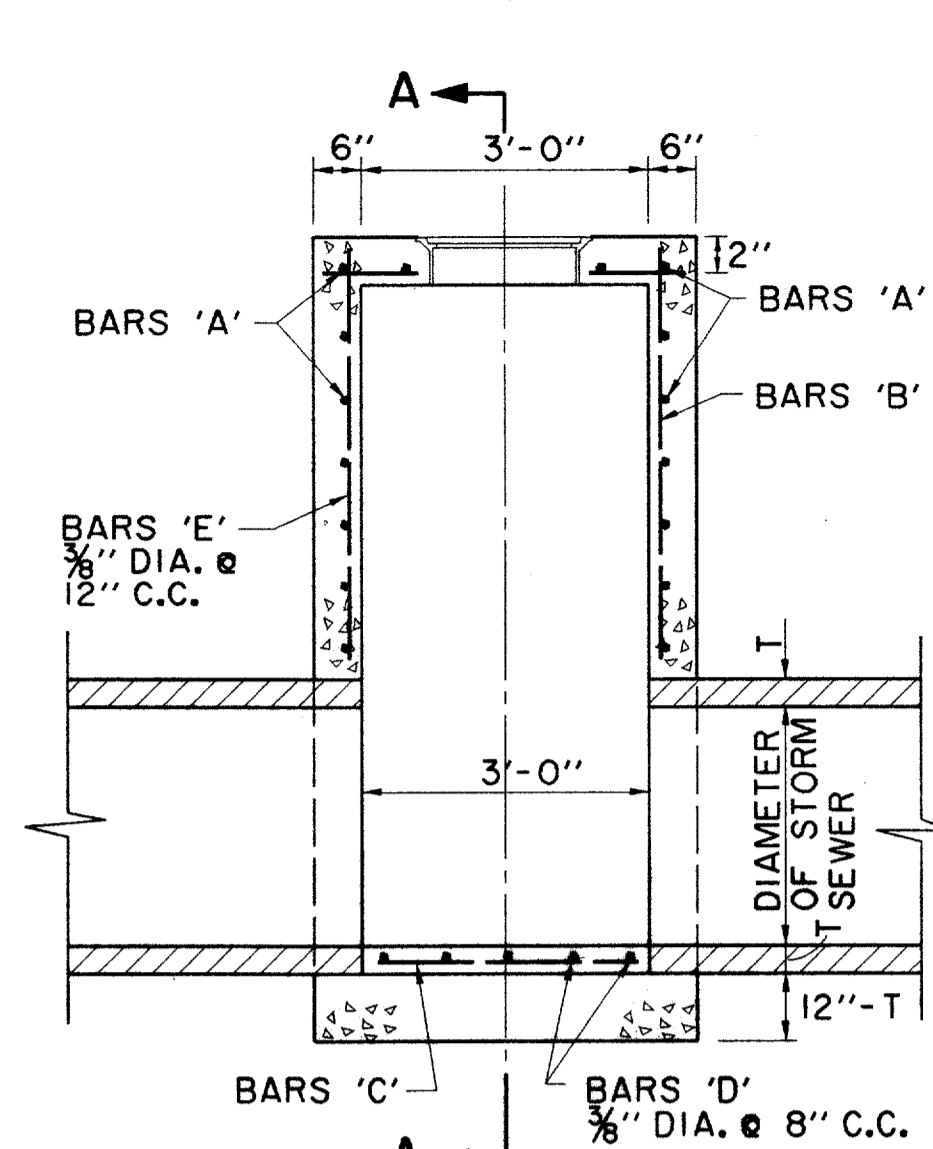
DATE	DESCRIPTION	REF. NO.				
10/3/97	ISSUED FOR CONSTRUCTION	N/A				
7/14/97	ISSUED FOR BID	N/A				
STORM WATER LATERAL PROFILES						
LINE Q, LATERALS R AND S						
ADDISON CIRCLE						
PHASE II PUBLIC INFRASTRUCTURE						
TOWN OF ADDISON, TEXAS						
Hull-Zollars, Inc./Engineering/Architecture Dallas, Fort Worth, Houston, El Paso, Phoenix, Tustin, Ontario						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZ1	HZ1	DEM	H: 1"=20' V: 1"=6'	JUN. 97	01-1822-21	SW25



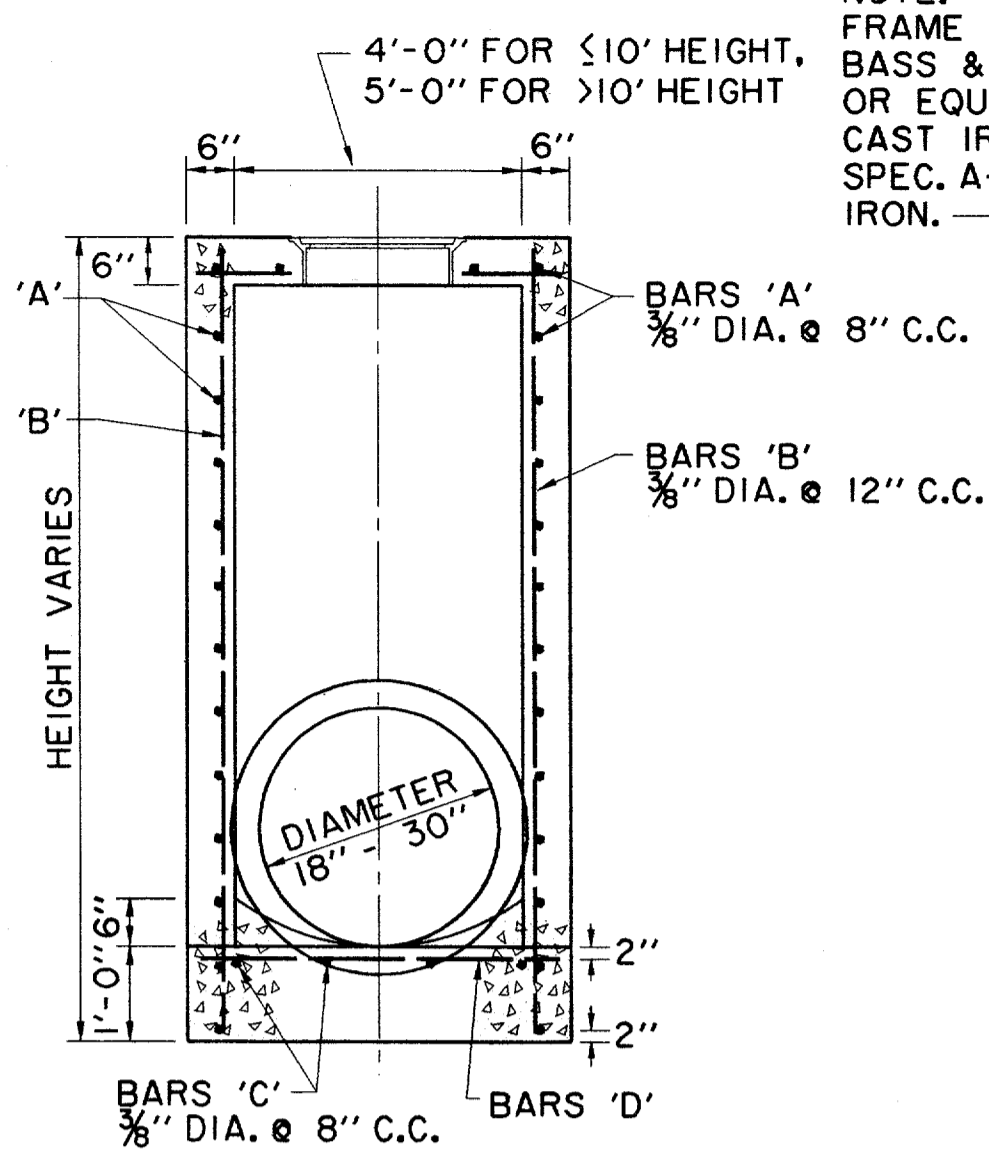
INLET PLAN
REINFORCING STEEL
FOR BRICK ON INLET
N.T.S.



INLET PLAN
BRICK ON INLET
N.T.S.



ELEVATION
N.T.S.

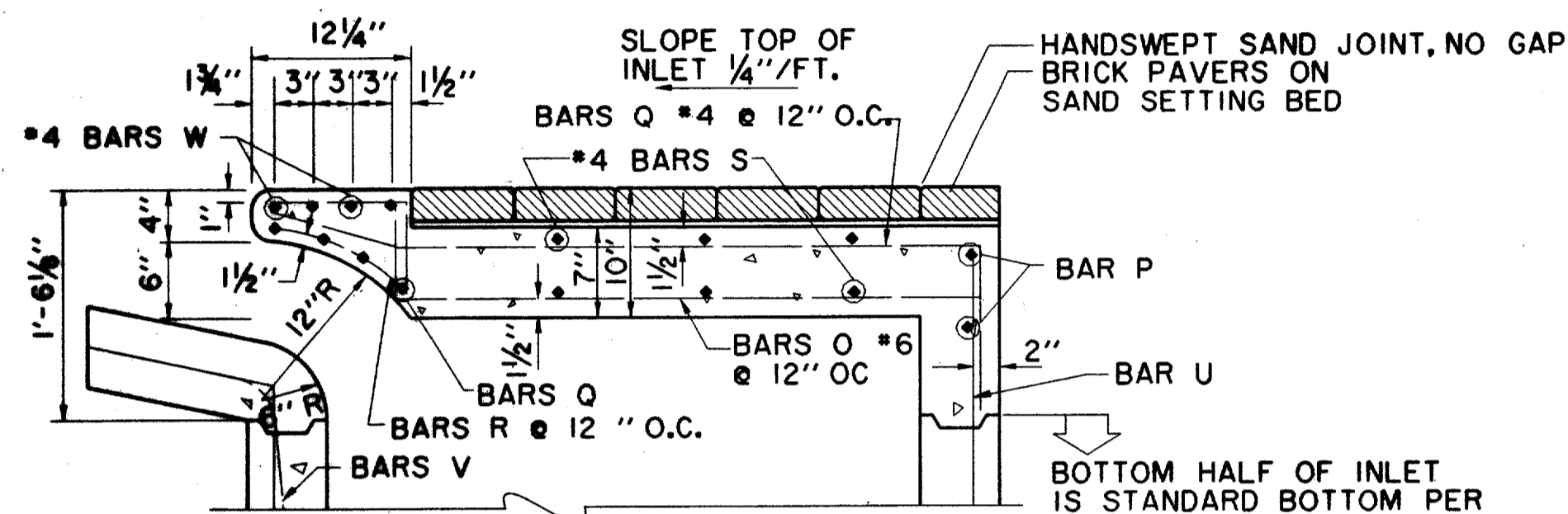


SECTION A-A
N.T.S.

TOP PLAN
TYPE A & TYPE B
STORM SEWER MANHOLE
N.T.S.

NOTE: MANHOLES AND INLETS GREATER THAN 4' IN DEPTH SHALL HAVE BASS AND HAYES MODEL MA STEPS OR APPROVED EQUAL

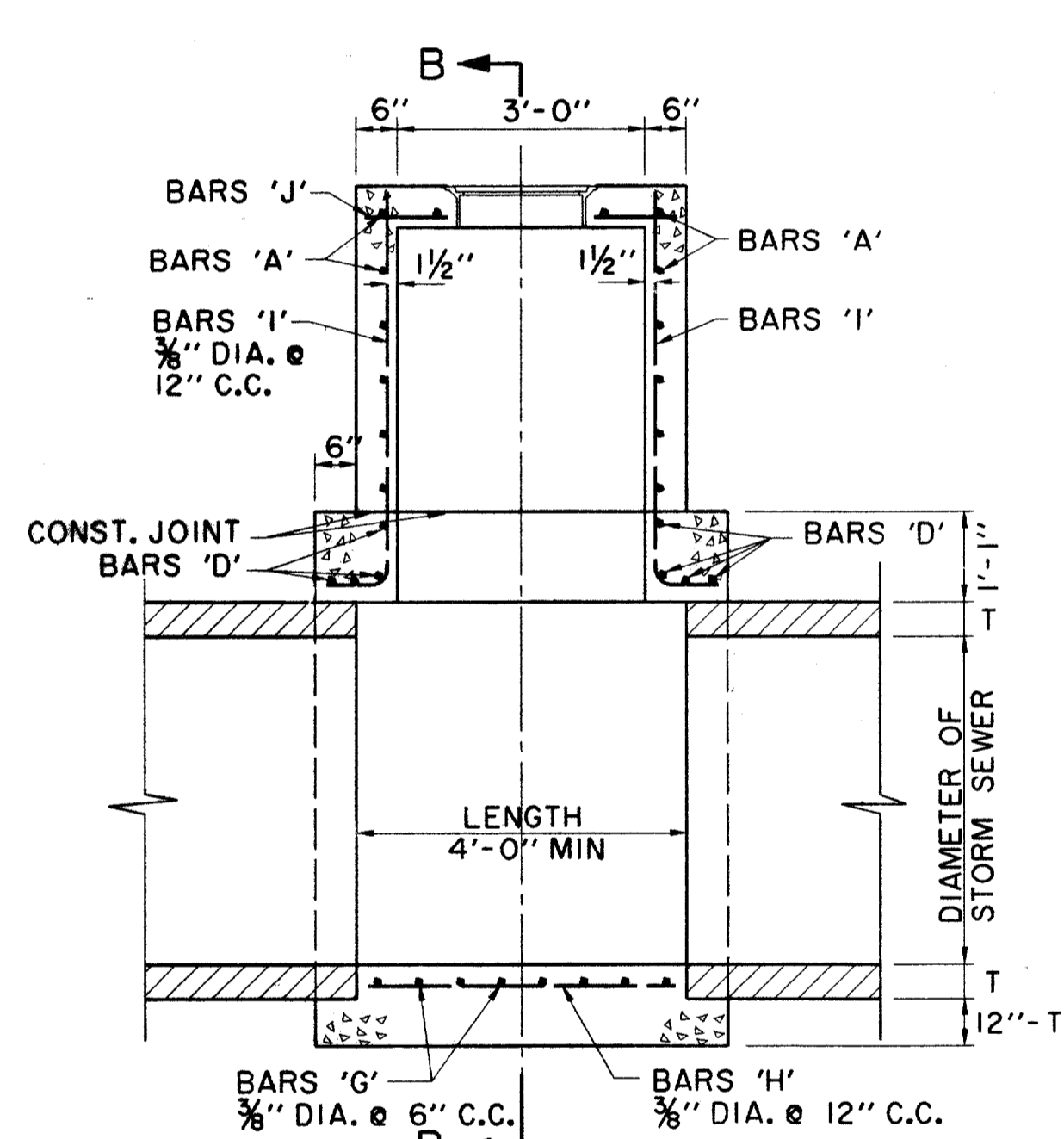
NOTE: MANHOLES AND INLETS GREATER THAN 4' IN DEPTH SHALL HAVE BASS AND HAYES MODEL MA STEPS OR APPROVED EQUAL



SECTION C-C - DETAIL
BRICK ON INLET
N.T.S.

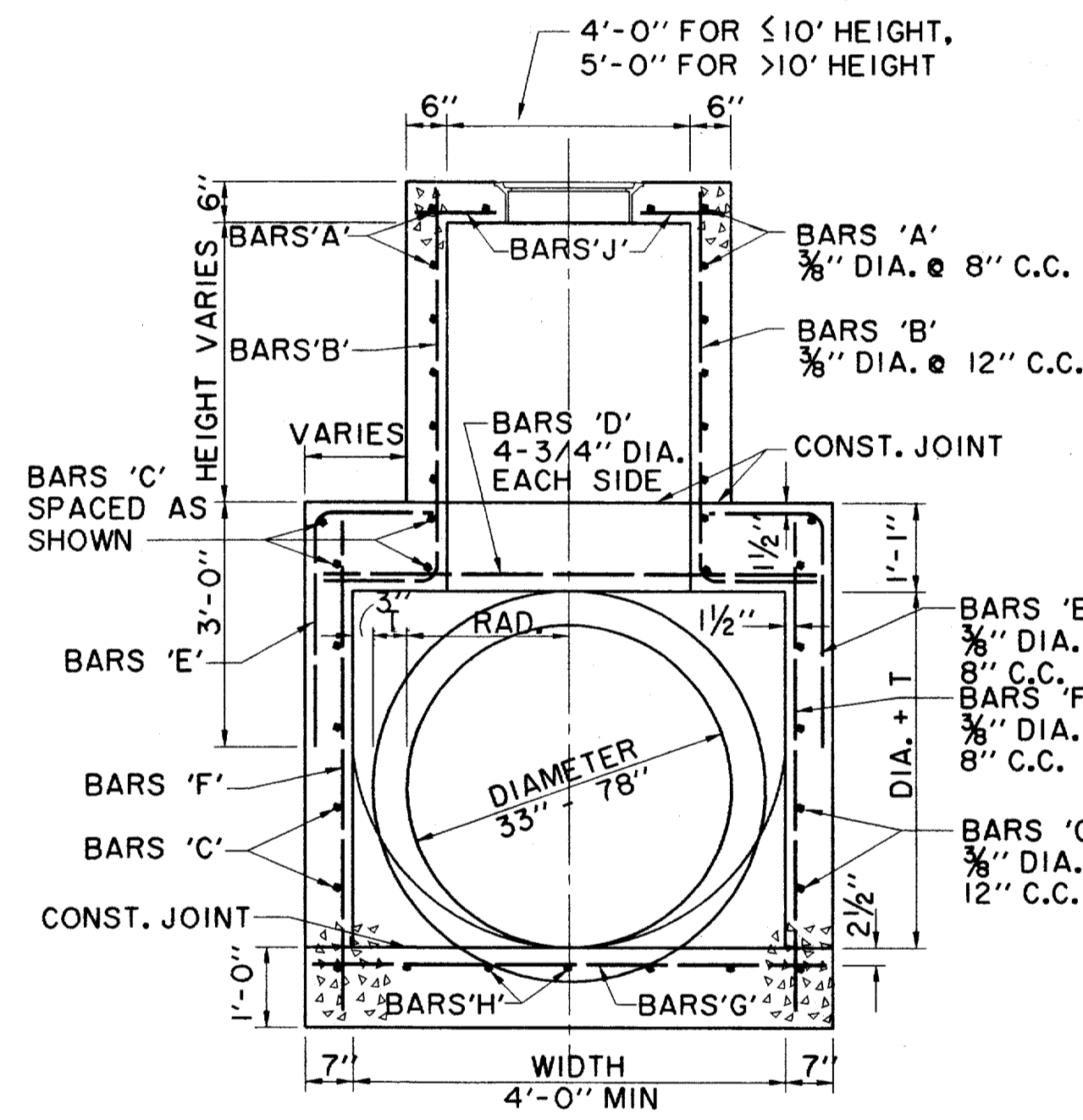
FOR EXISTING INLETS TO BE MODIFIED, BREAK OUT TOP ±20", TIE NEW STEEL TO OLD AND POUR MODIFIED TOP.

BOTTOM HALF OF INLET IS STANDARD BOTTOM PER TOWN OF ADDISON DETAILS

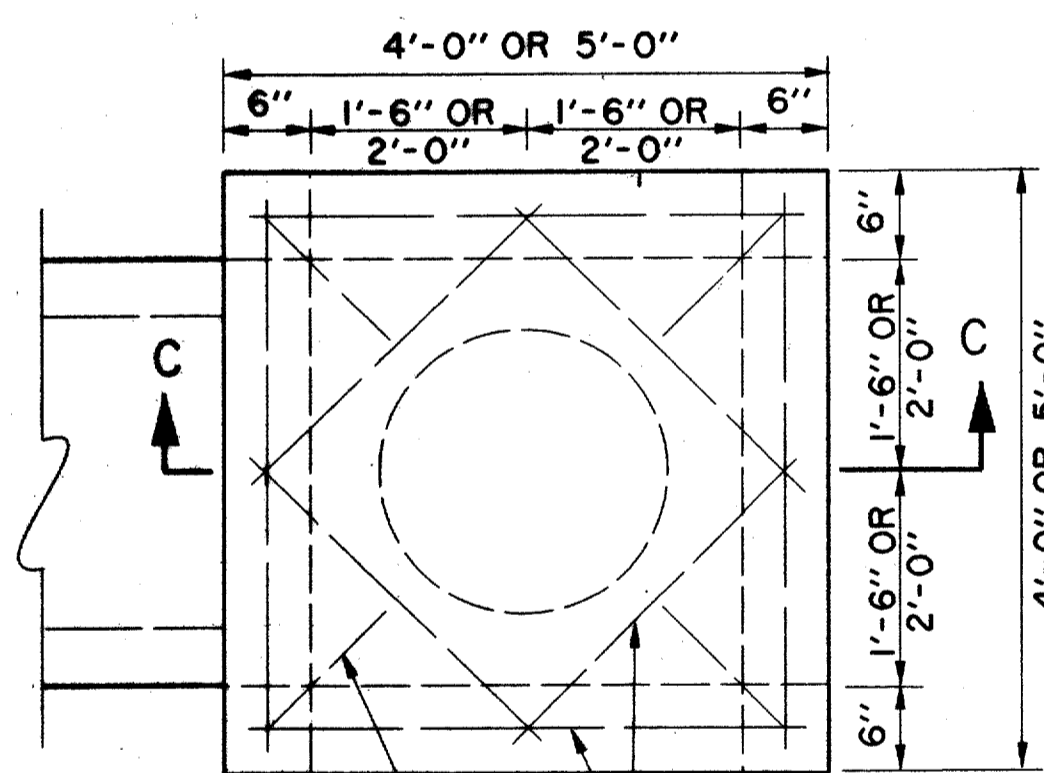


ELEVATION
N.T.S.

TYPE B STORM SEWER MANHOLE
(FOR PIPE 33" TO 78" IN DIAMETER)



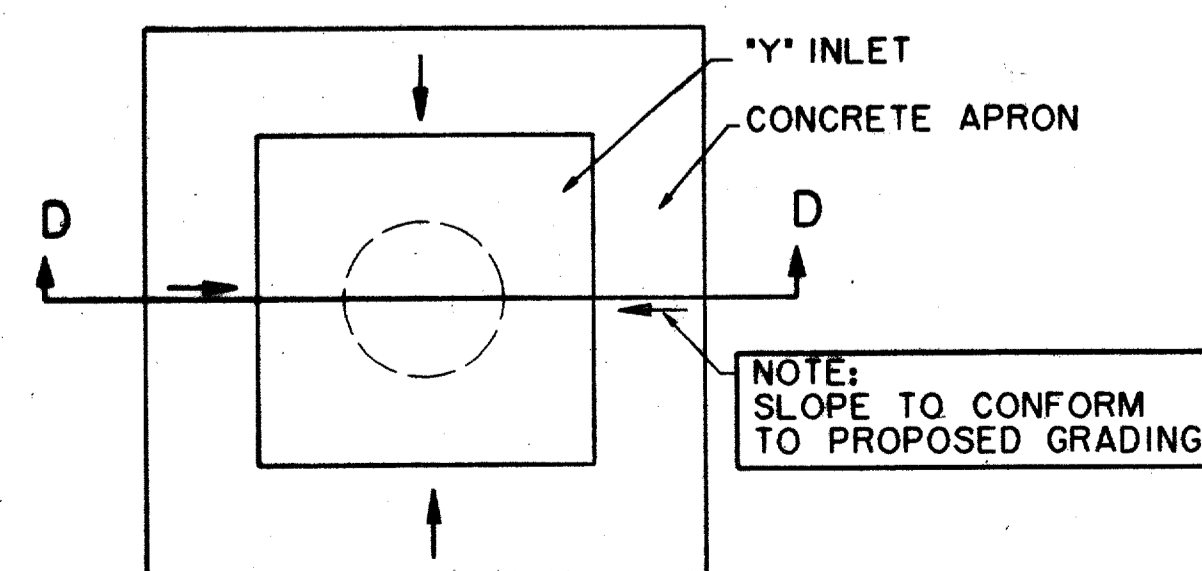
SECTION B-B
N.T.S.



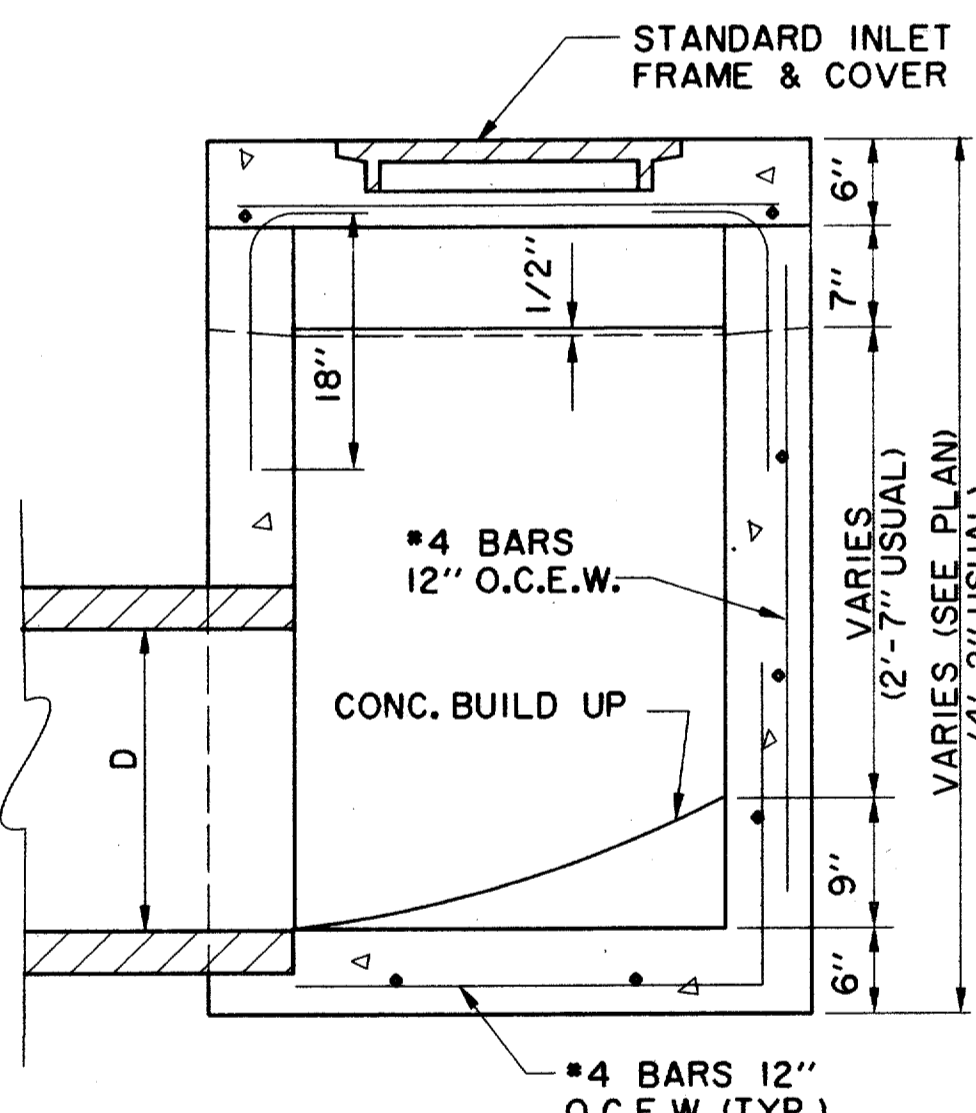
BENT BARS
STRAIGHT BARS
ALL REINFORCING SHALL BE NO. 5 BARS.

STANDARD TYPE "Y" INLET
N.T.S.

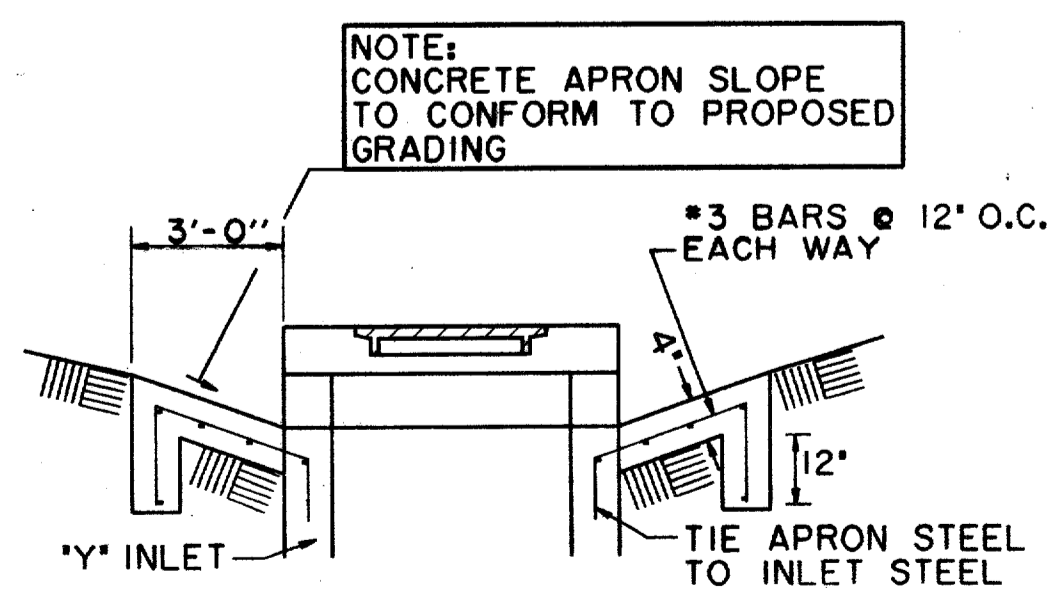
NOTE: ALL "Y" INLETS TO HAVE CONCRETE APRON AROUND INLET



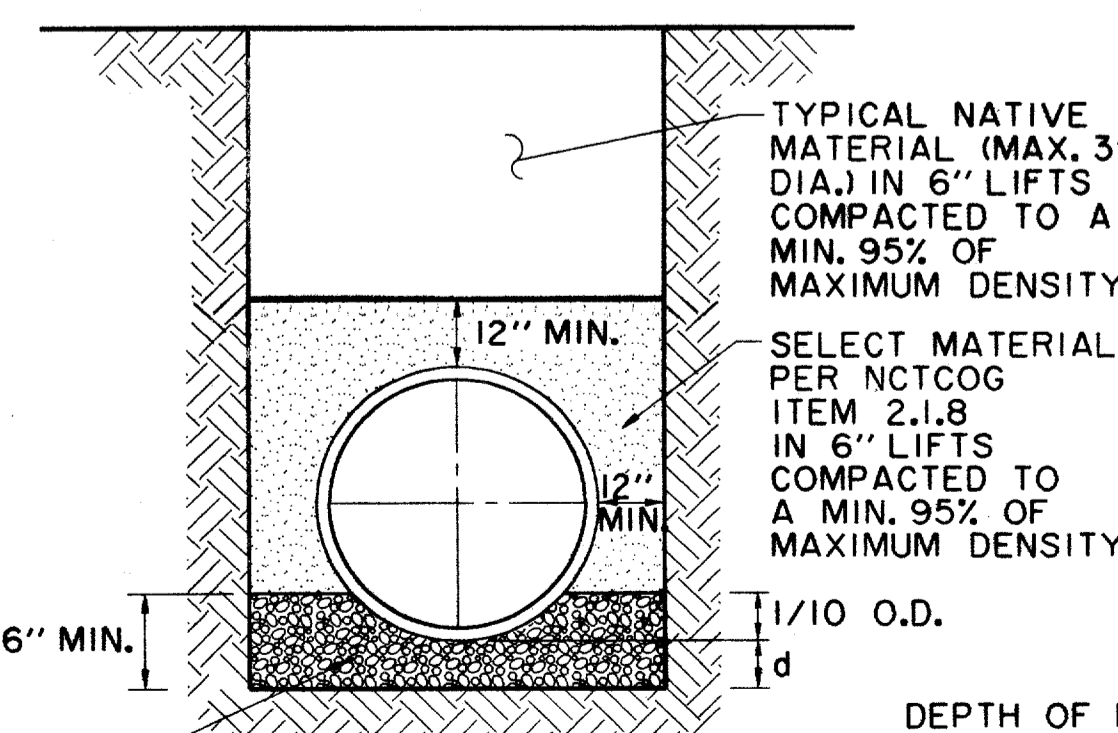
"Y" INLET CONCRETE APRON PLAN
N.T.S.



SECTION C-C
N.T.S.

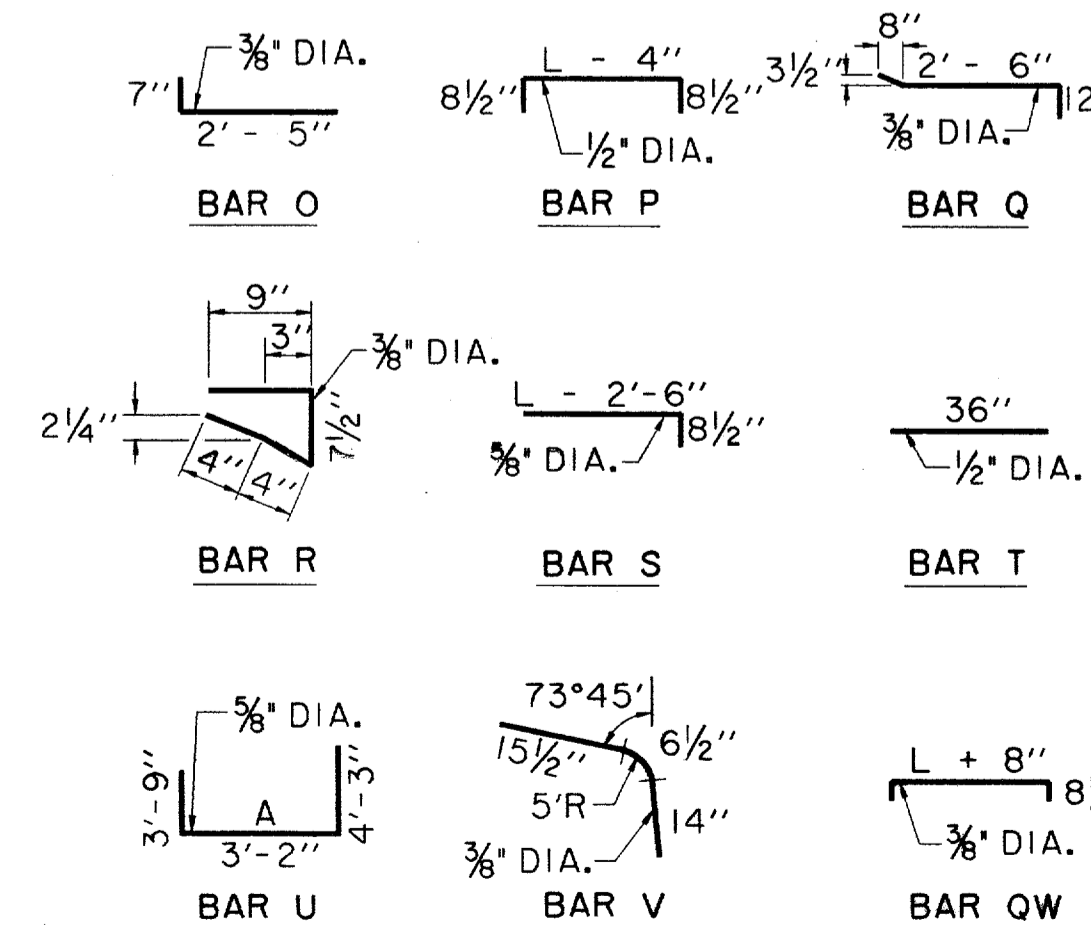


SECTION D-D
N.T.S.



EMBEDMENT DETAIL
FOR STORM SEWER
N.T.S.

DEPTH OF BEDDING MATERIAL BELOW PIPE	
D (INSIDE DIAMETER)	d (MIN.)
27"	3"
30" TO 60"	4"
36"	6"



BAR DIAGRAMS (BRICK ON INLET)
N.T.S.

NOTE: BAR DESIGNATIONS AND DIMENSIONS ARE DIFFERENT FROM STEEL SCHEDULE FOR REGULAR INLETS.

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY DAVID E. MEYERS, P.E. 81512



RECORD DRAWING

DATE	DESCRIPTION	REF NO.
10/3/97	ISSUED FOR CONSTRUCTION	N/A
7/14/97	ISSUED FOR BID	N/A

STORM WATER DETAILS

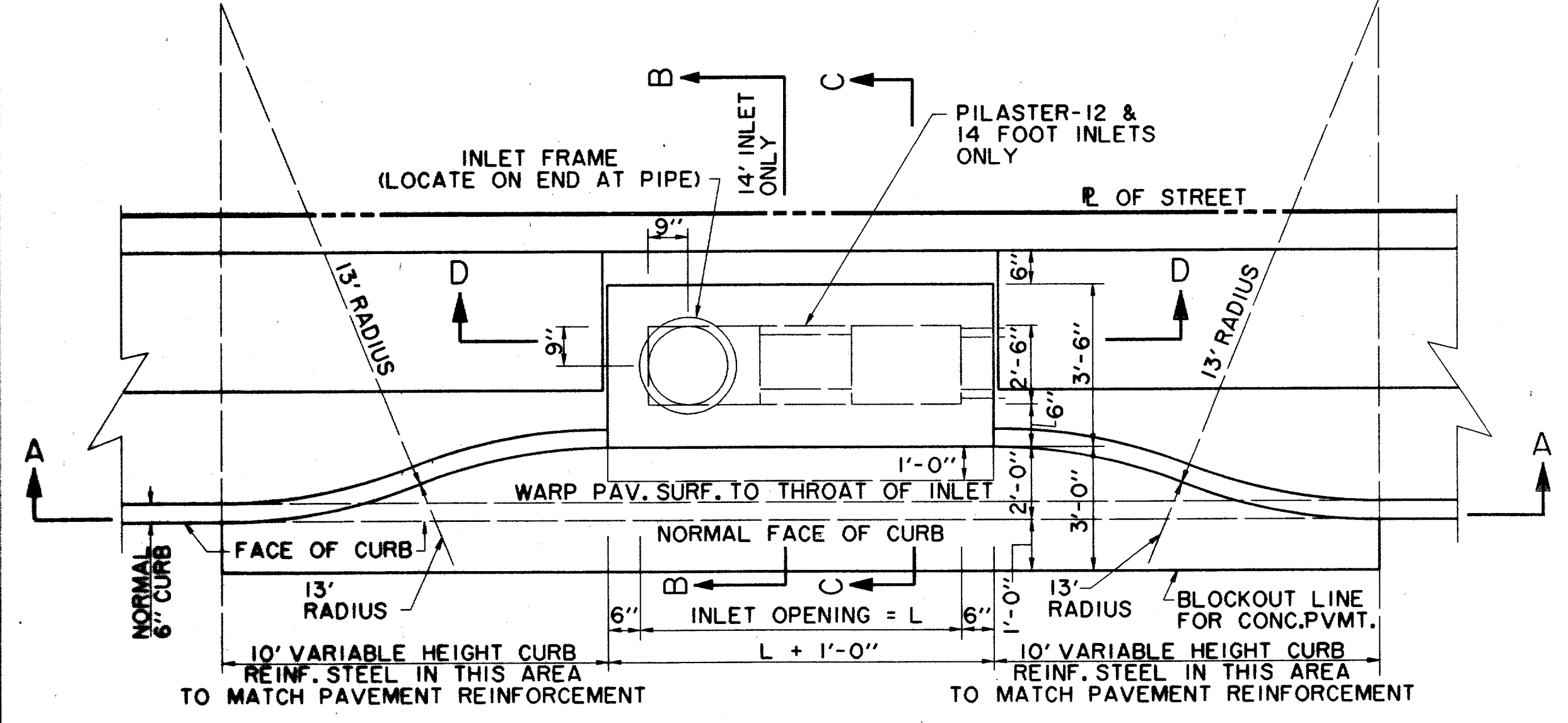
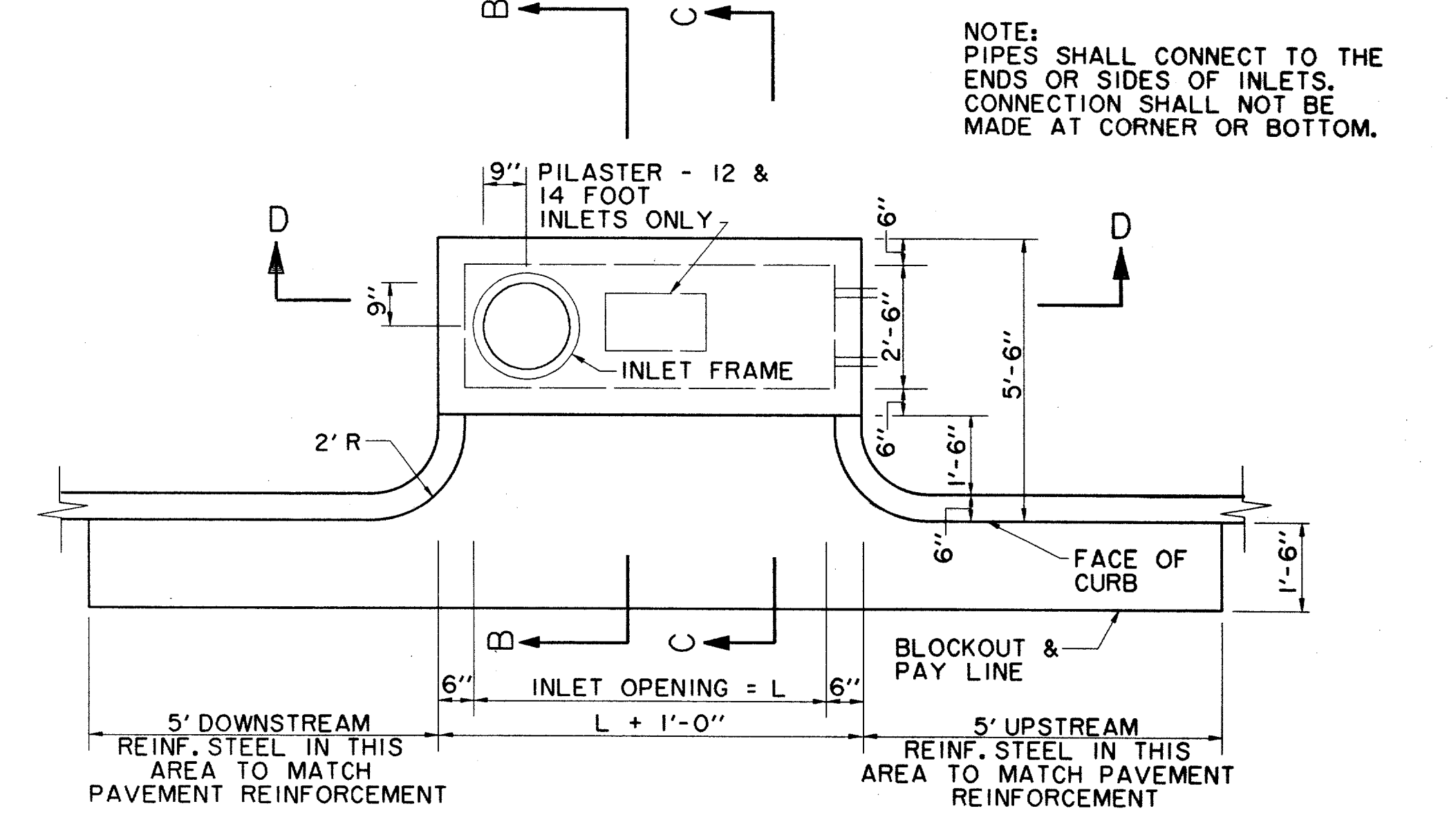
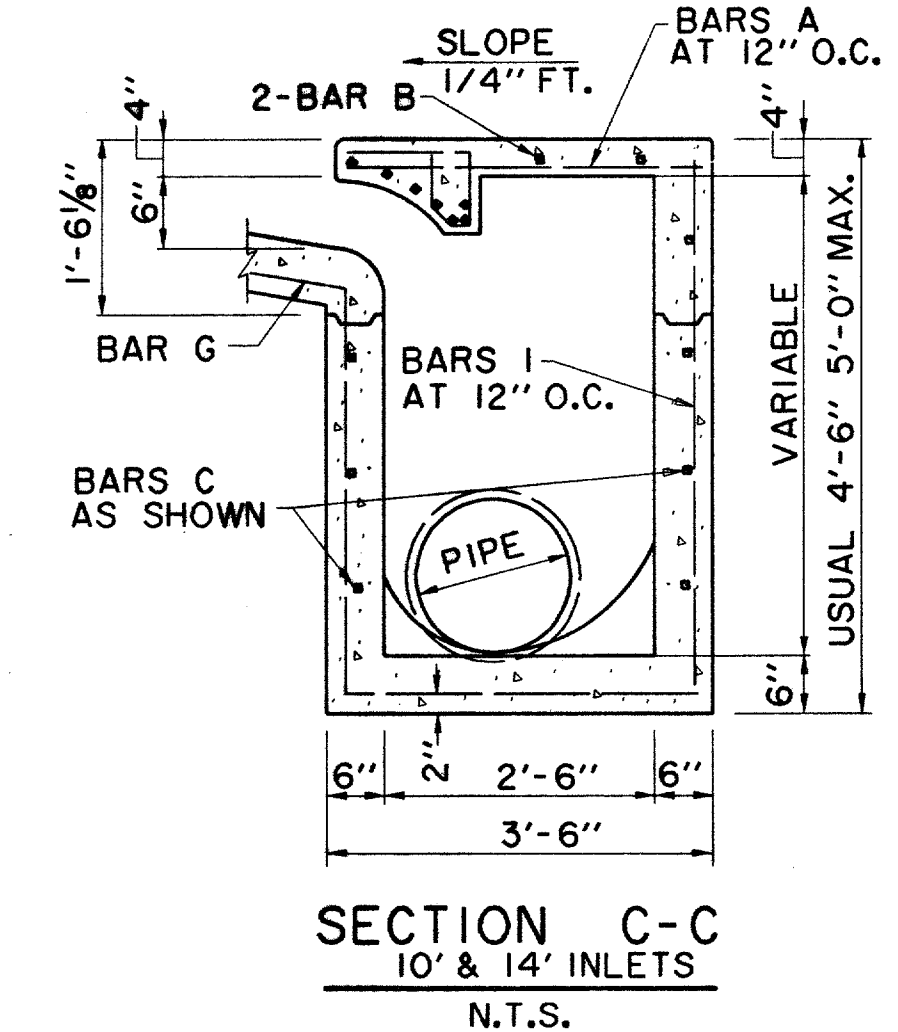
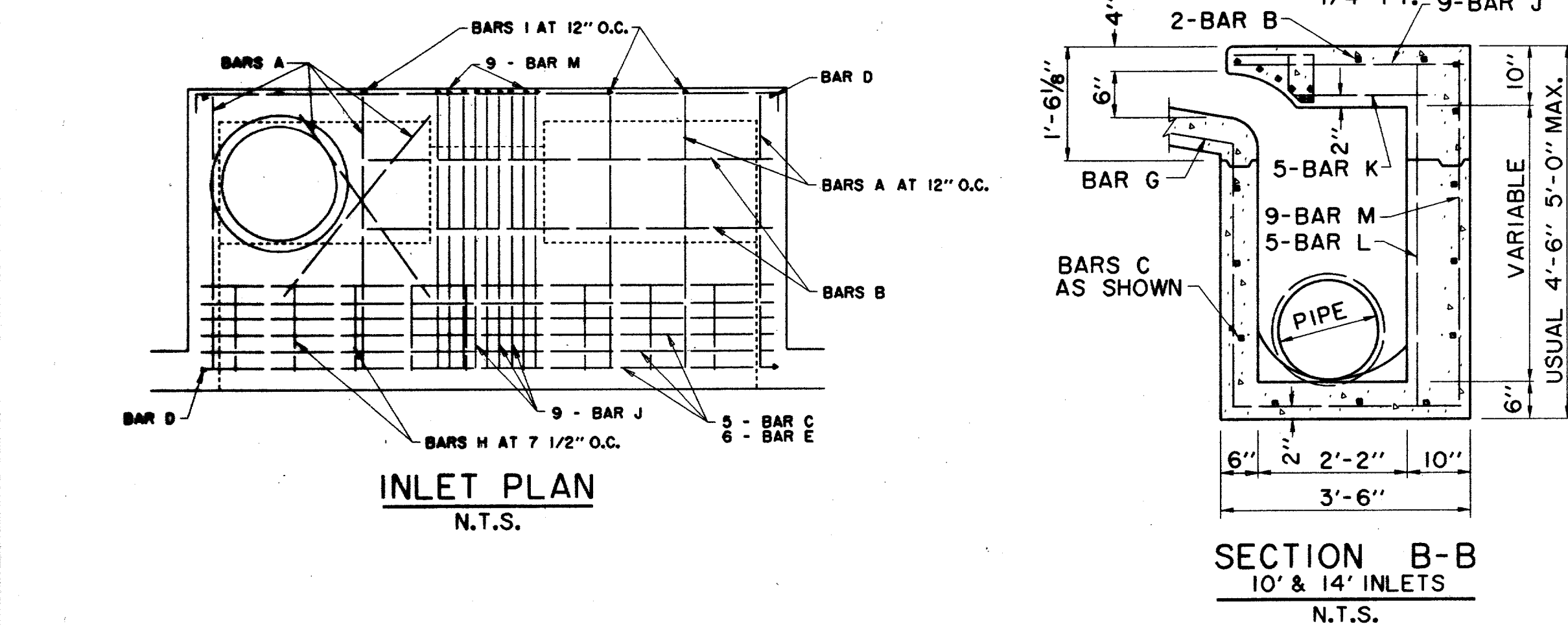
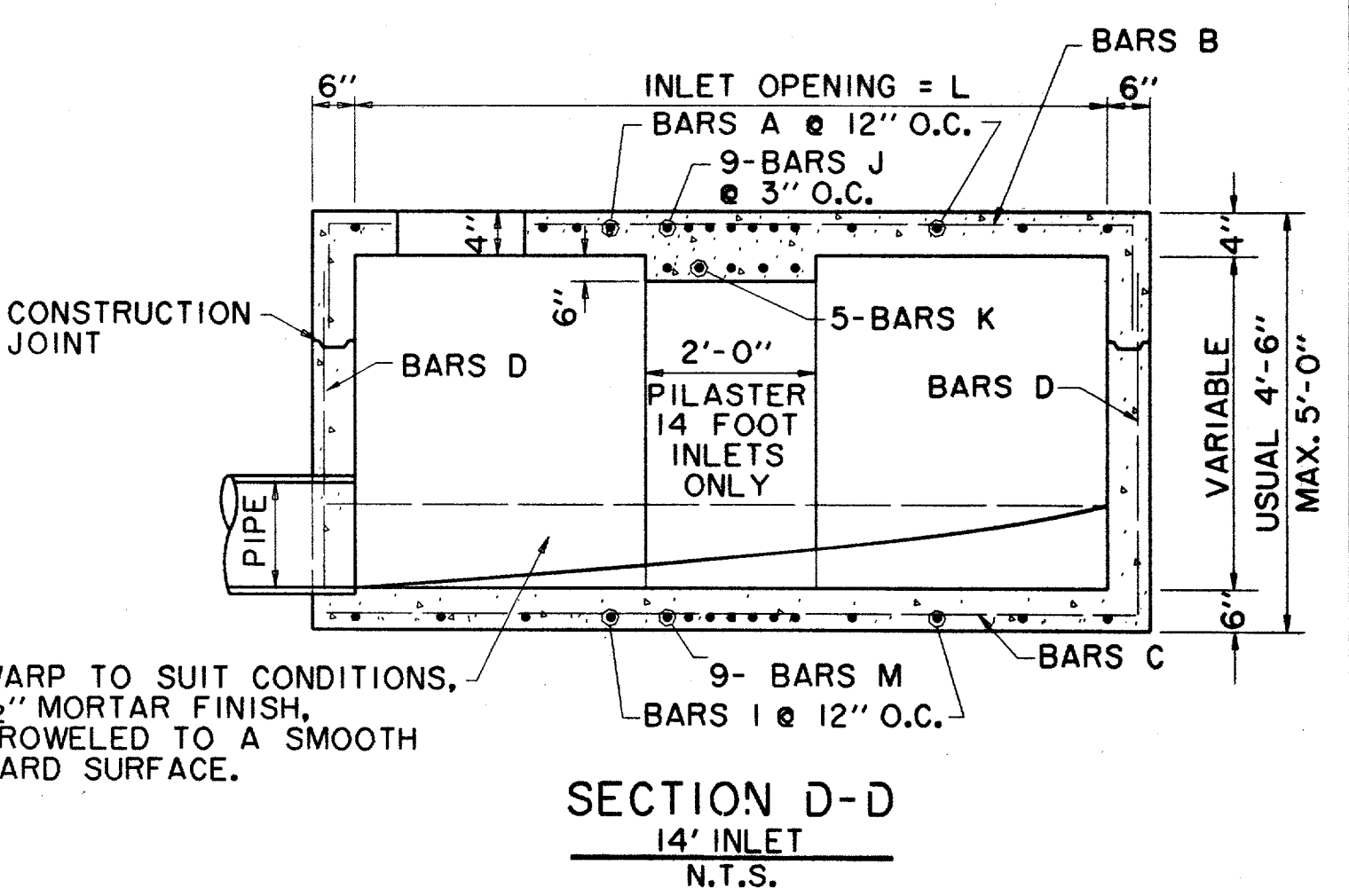
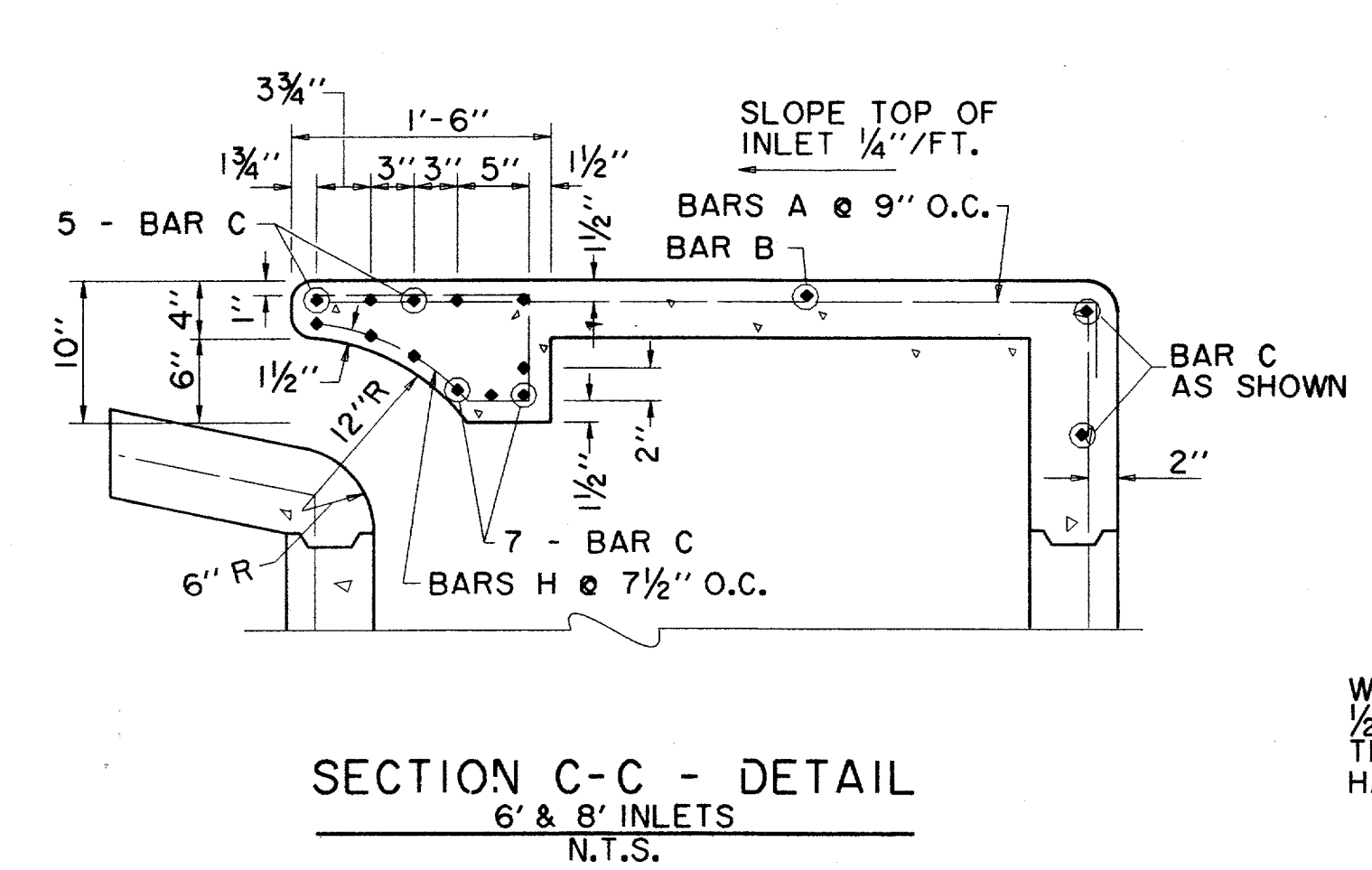
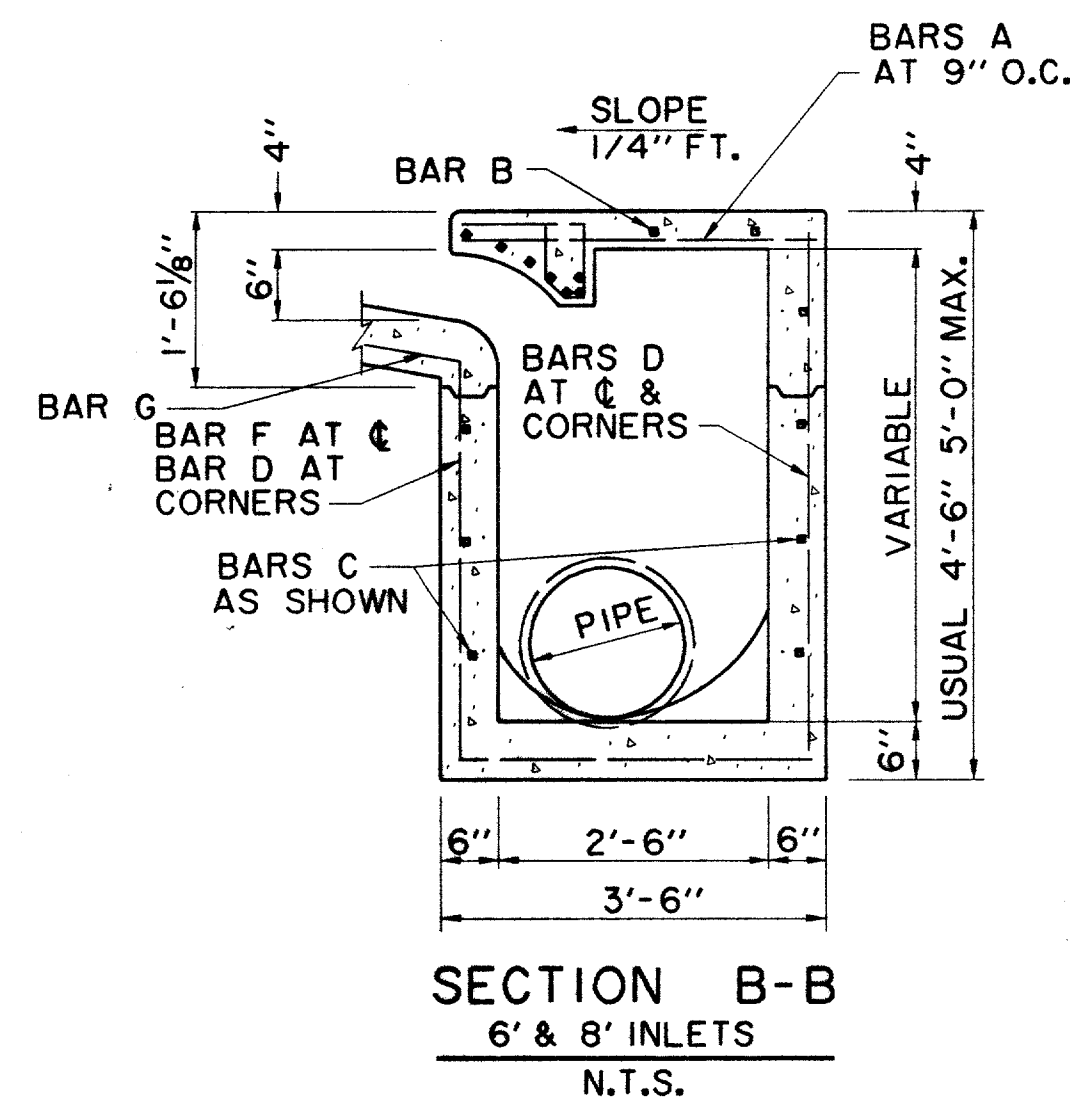
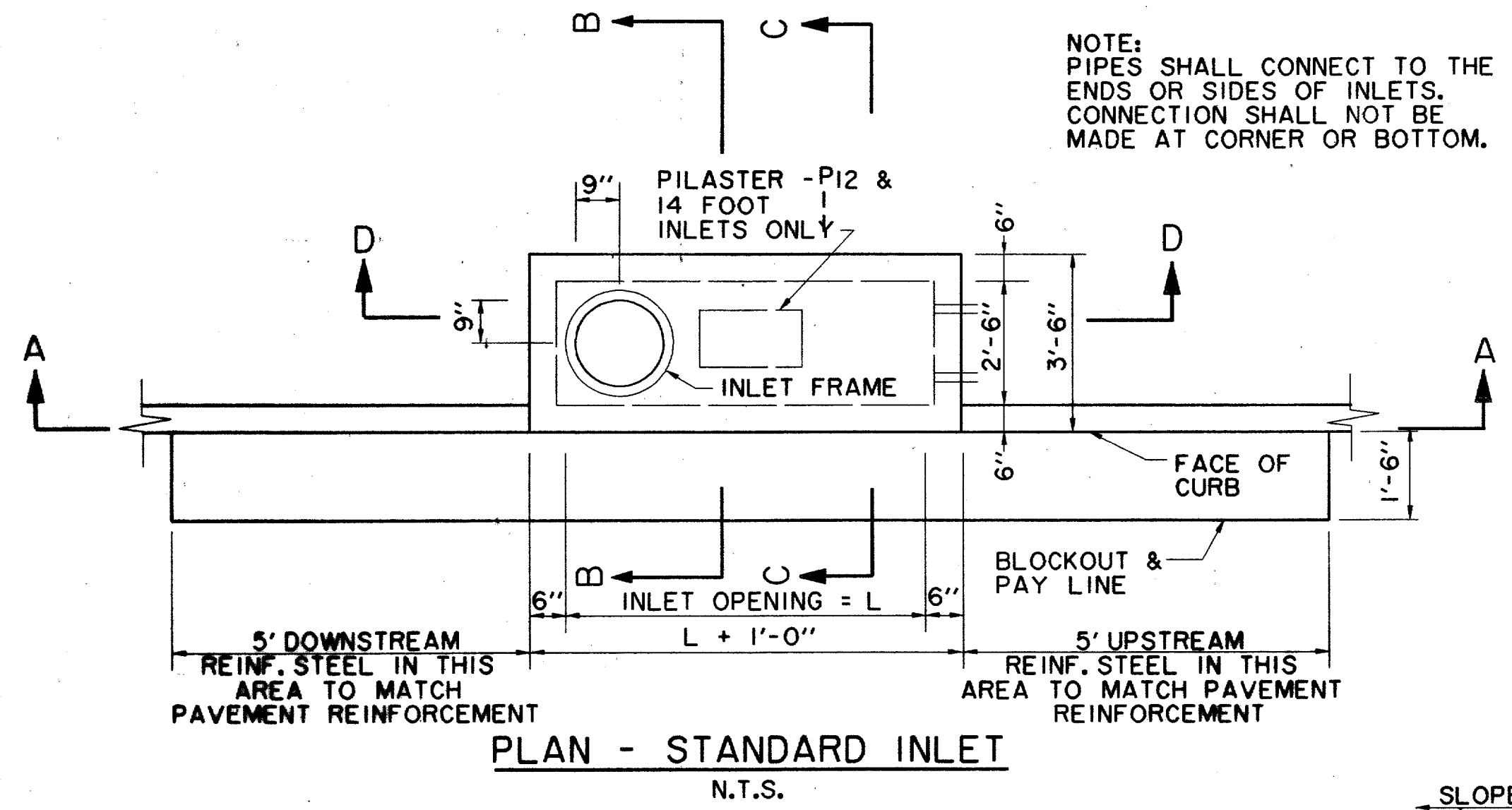
ADDISON CIRCLE

PHASE II PUBLIC INFRASTRUCTURE

TOWN OF ADDISON, TEXAS

Huitt-Zollars, Inc./Engineering/Architecture
Dallas, Fort Worth, Houston, El Paso, Phoenix, Tustin, Ontario

DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZ1	HZ1	DEM	N.T.S.	JUN. 97	01-1822-21	SW26

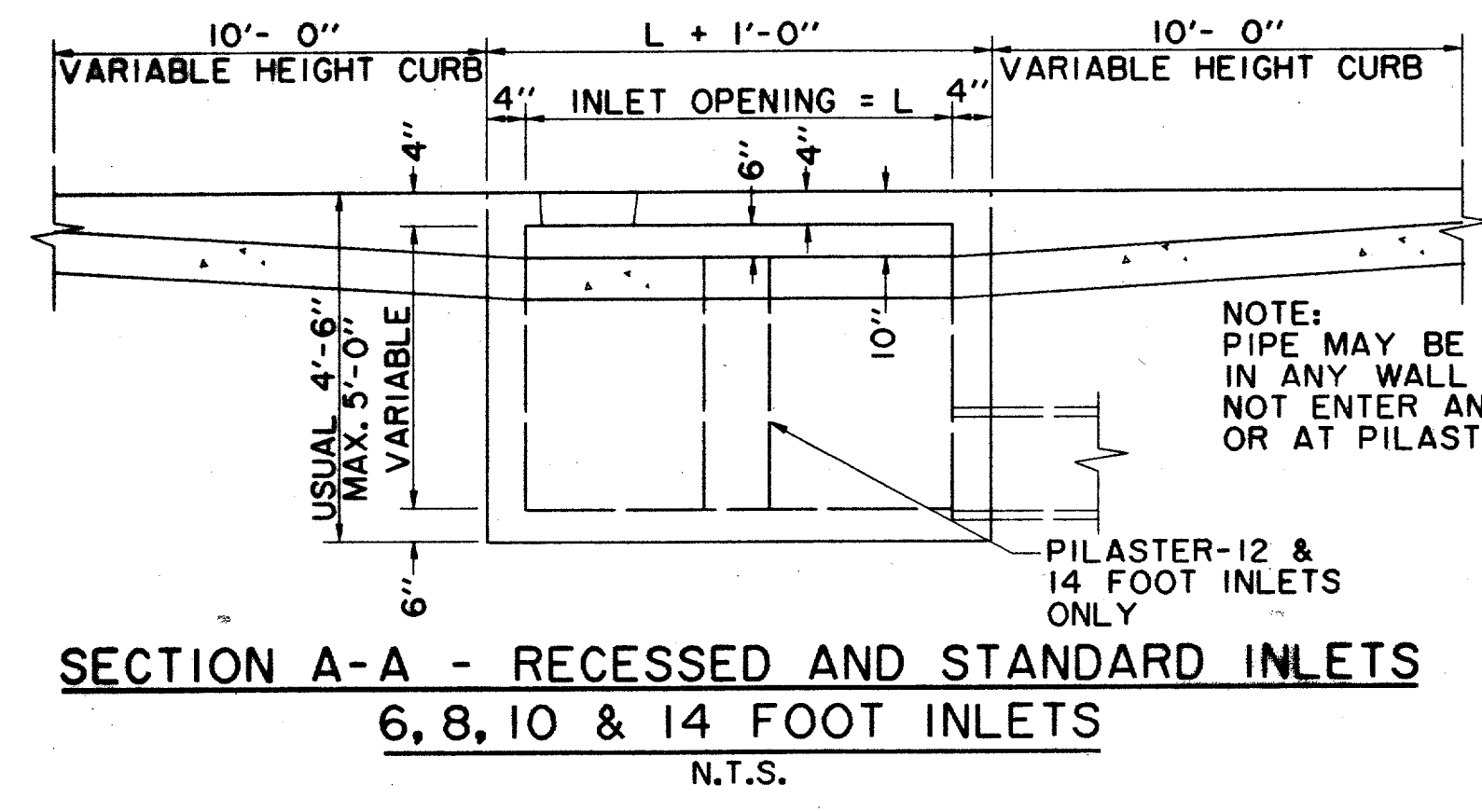
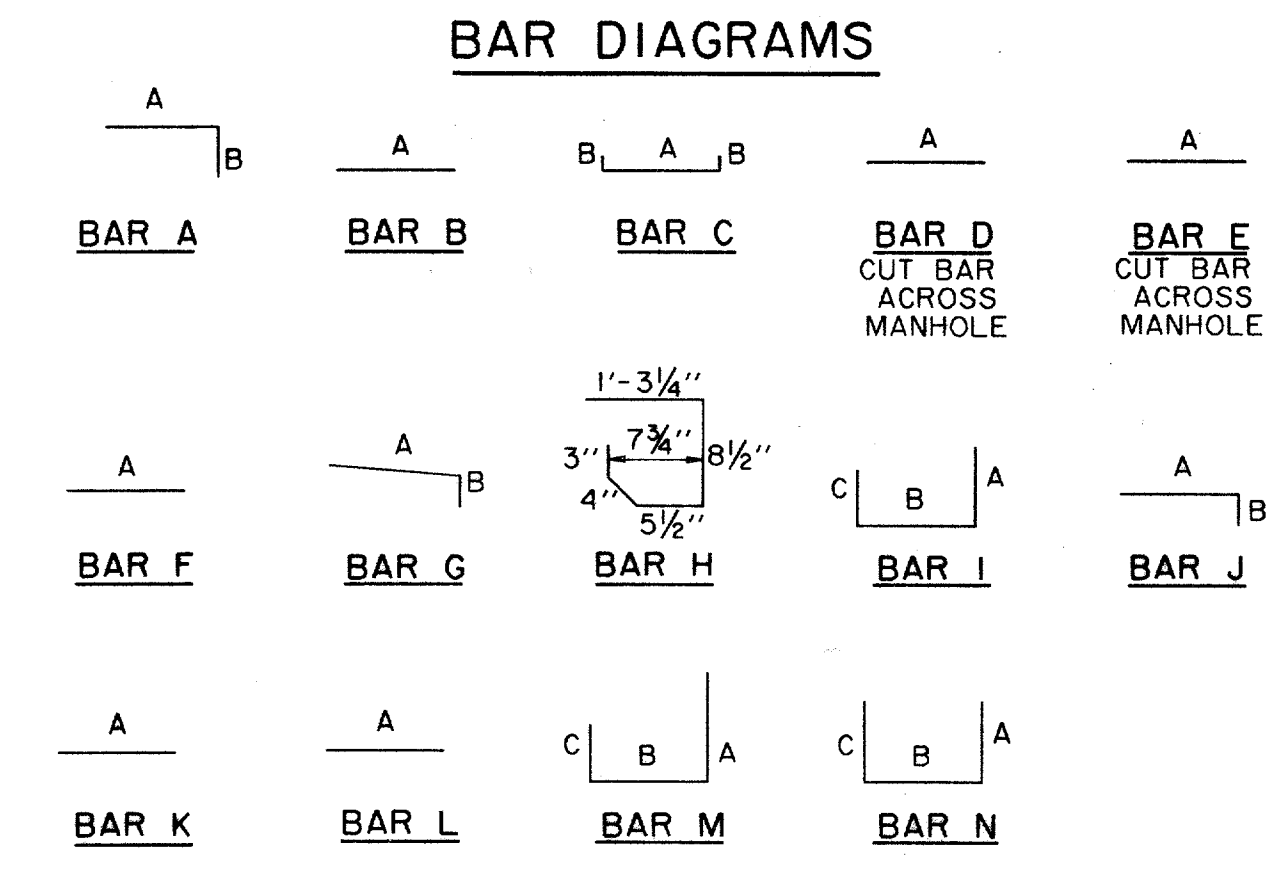
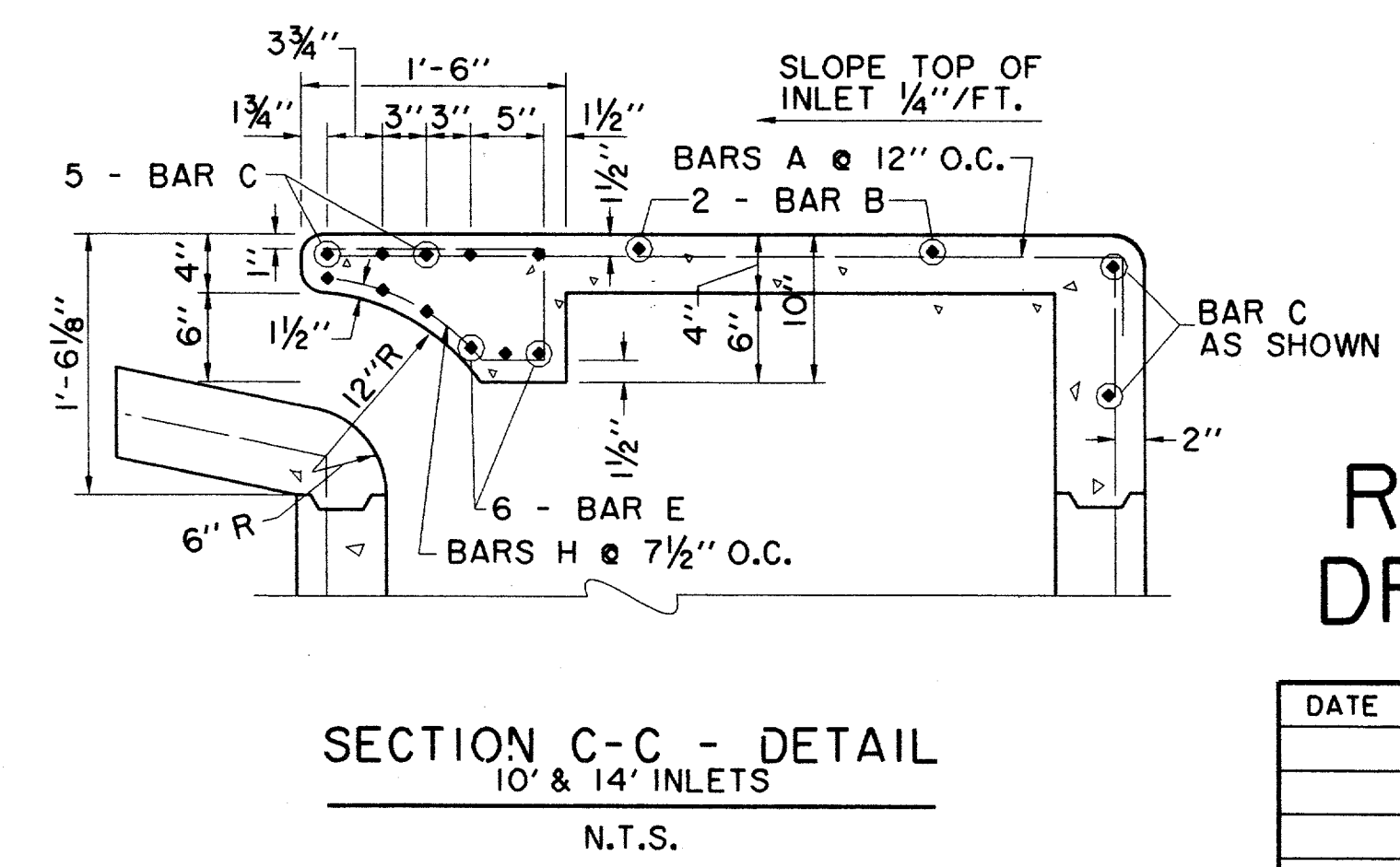


REINFORCING STEEL SCHEDULE

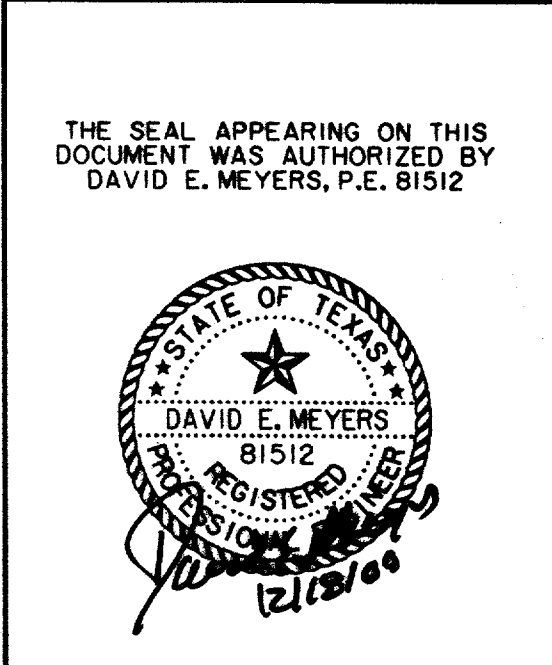
DIMENSION SHOWN ARE FOR MAXIMUM SIZE INLETS

INLET LENGHT	BAR TYPE	BAR NO. (1/8" IN)	BAR DIMENSIONS		
			A	B	C
6	A	3	3'-2"	0'-3"	
	B	3	4'-10"		
	C	4	6'-8"	0'-6"	
	D	4	4'-8"		
	F	4	3'-2"		
	G	3	2'-0"	1'-3"	
	H	6			
	N	3	3'-2"	3'-2"	3'-2"
8	A	3	3'-2"	0'-3"	
	B	3	6'-10"		
	C	4	8'-8"	0'-6"	
	D	4	4'-8"		
	F	4	3'-2"		
	G	3	2'-0"	1'-3"	
	H	6			
	N	3	3'-2"	3'-2"	3'-2"
10	A	3	3'-2"	0'-3"	
	B	3	8'-10"		
	C	4	10'-8"	0'-6"	
	D	4	4'-8"		
	E	5	10'-8"		
	G	3	2'-0"	1'-3"	
	H	3	15		
	I	4	4'-8"	3'-2"	3'-2"
	L	4	4'-3"		
12	A	3	3'-2"	0'-3"	
	B	3	10'-10"		
	C	4	12'-8"	0'-6"	
	D	4	4'-8"		
	E	5	12'-8"		
	G	3	2'-0"	1'-3"	
	H	3	18		
	I	4	4'-8"	3'-2"	3'-2"
	J	5	3'-2"	1'-3"	
	K	4	2'-3"		
	L	4	4'-3"		
	M	5	4'-3"	3'-2"	3'-9"
14	A	3	3'-2"	0'-3"	
	B	3	10'-10"		
	C	4	14'-8"	0'-6"	
	D	4	4'-8"		
	E	5	14'-8"		
	G	3	2'-0"	1'-3"	
	H	3	21		
	I	4	4'-8"	3'-2"	3'-2"
	J	5	3'-2"	1'-3"	
	K	4	2'-3"		
	L	4	4'-3"		
	M	5	4'-3"	3'-2"	3'-9"

SEE DIAGRAM FOR DIMENSIONS

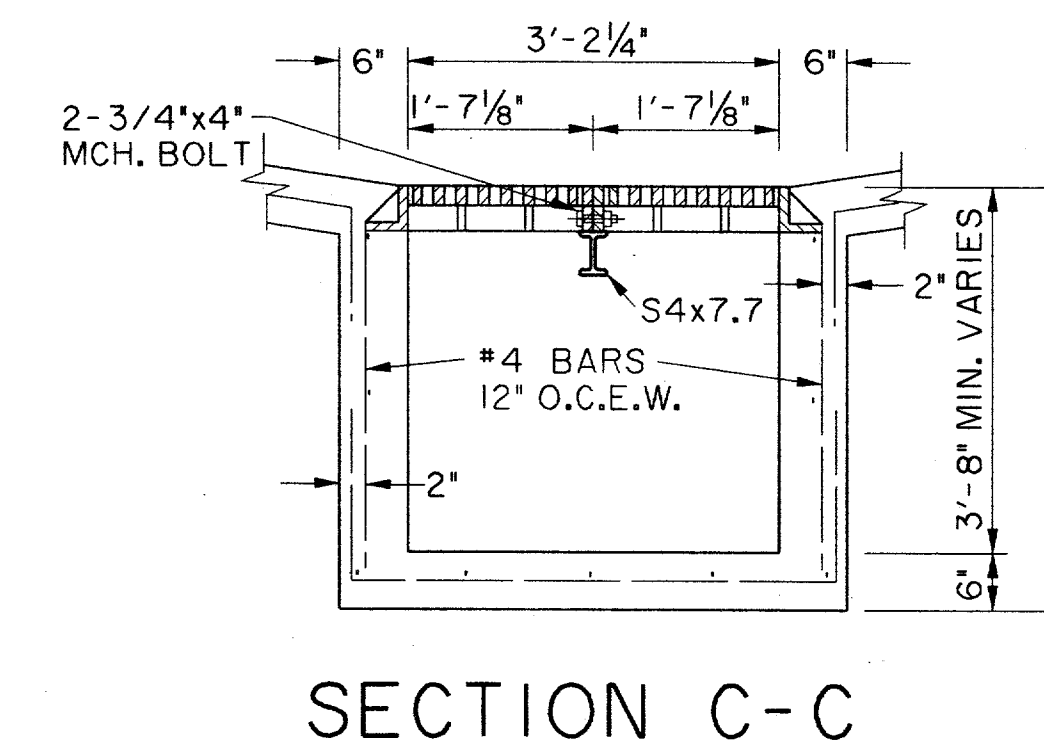
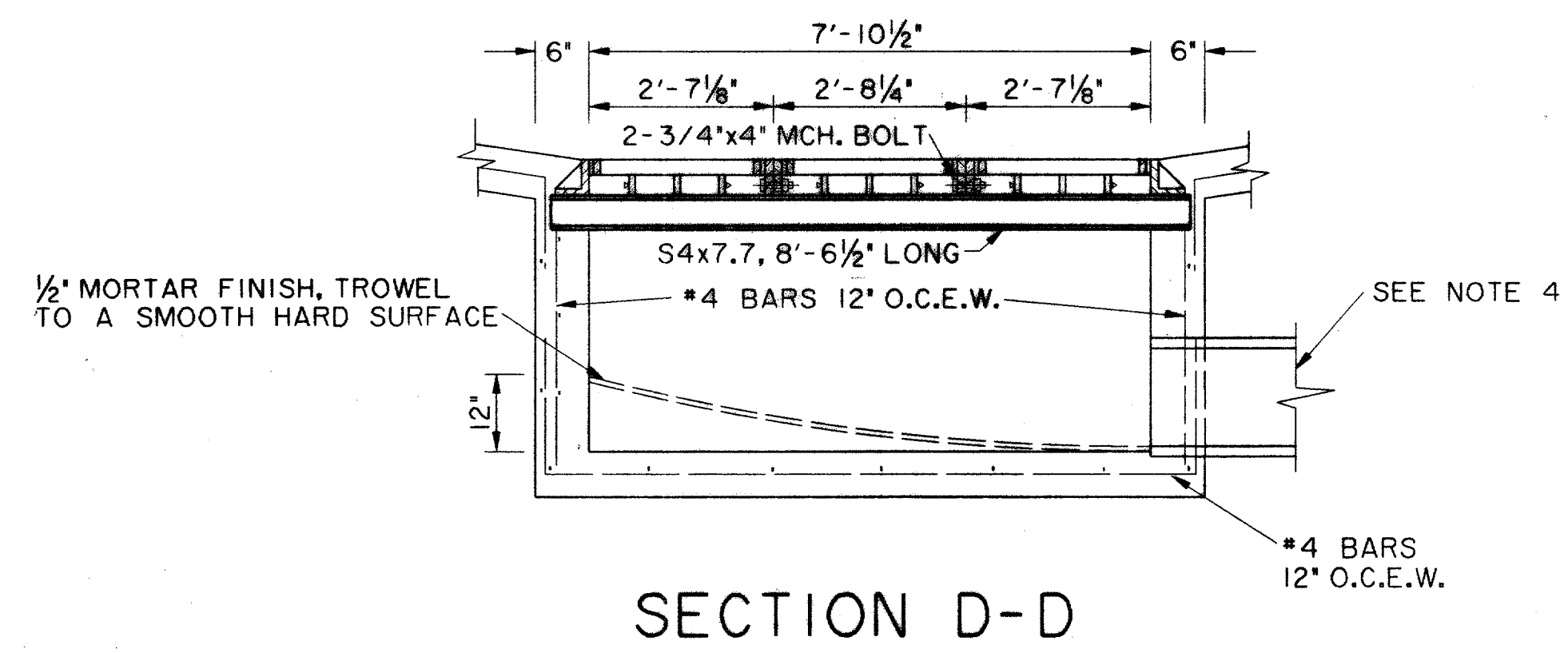
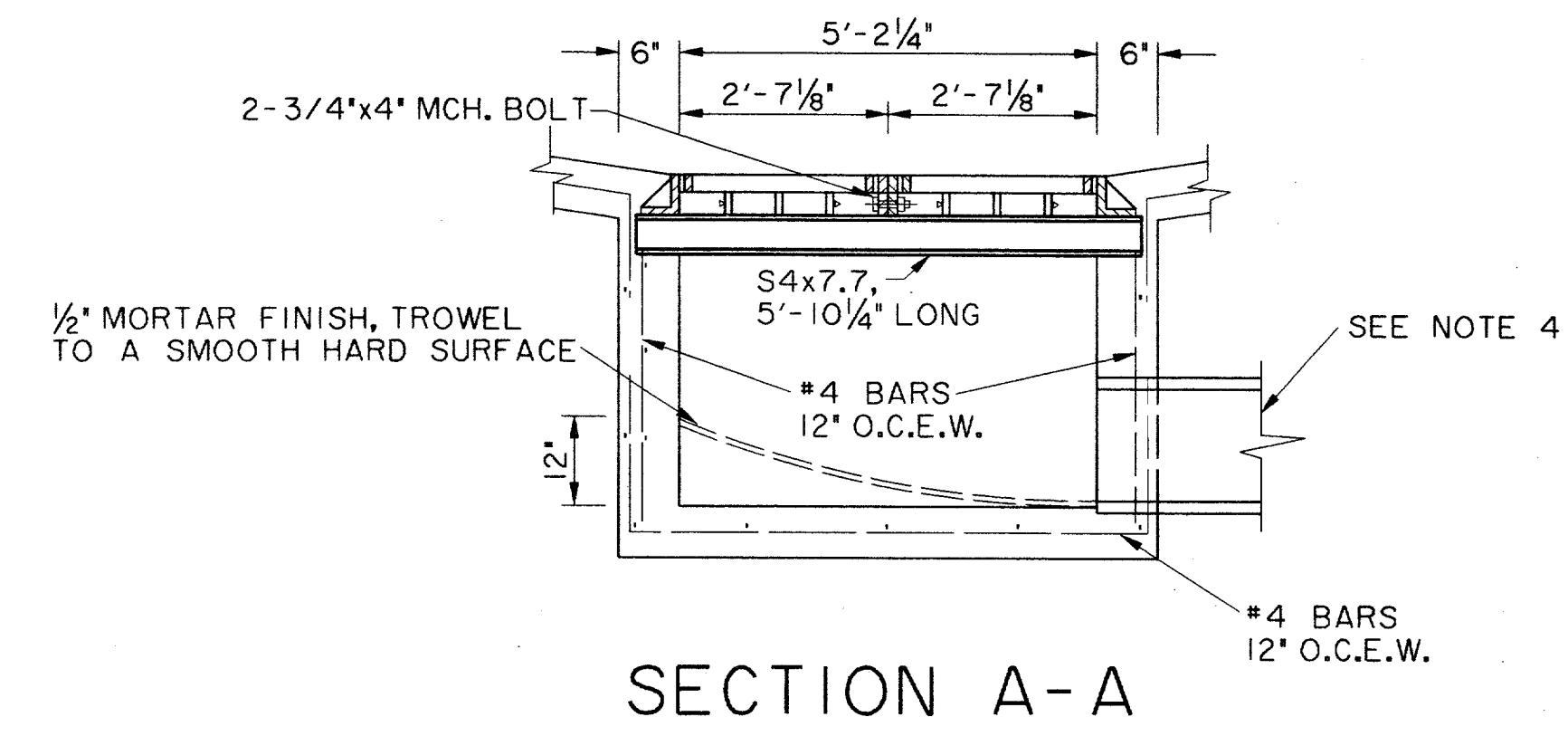
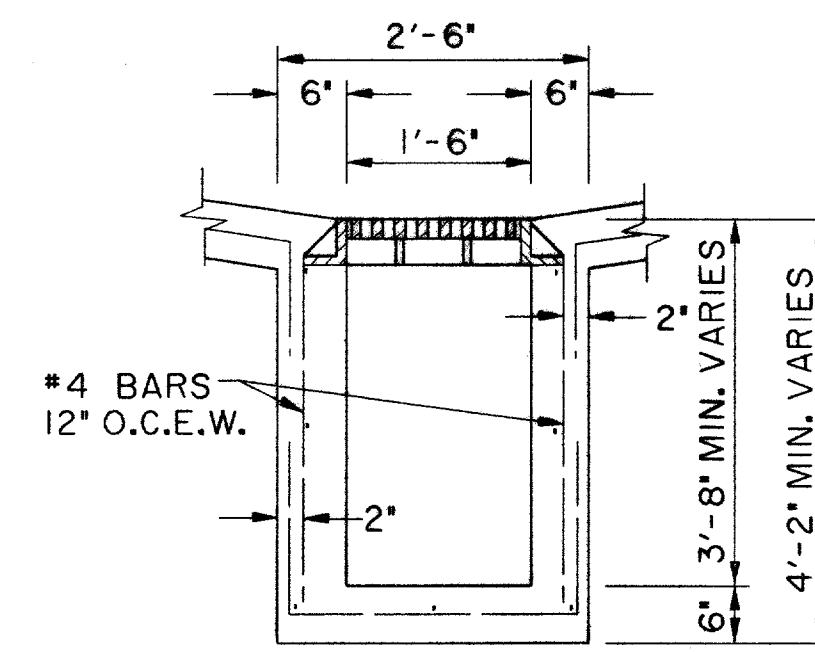
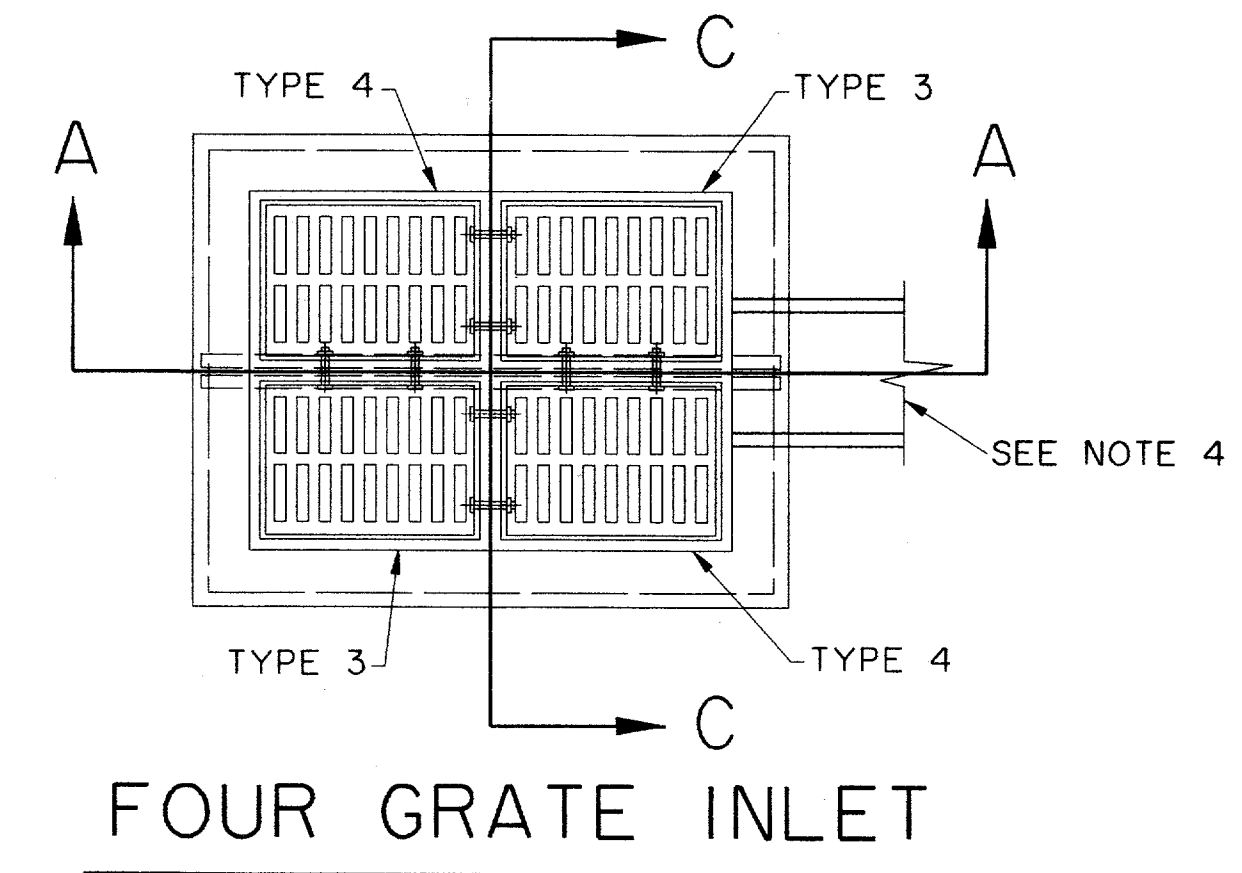
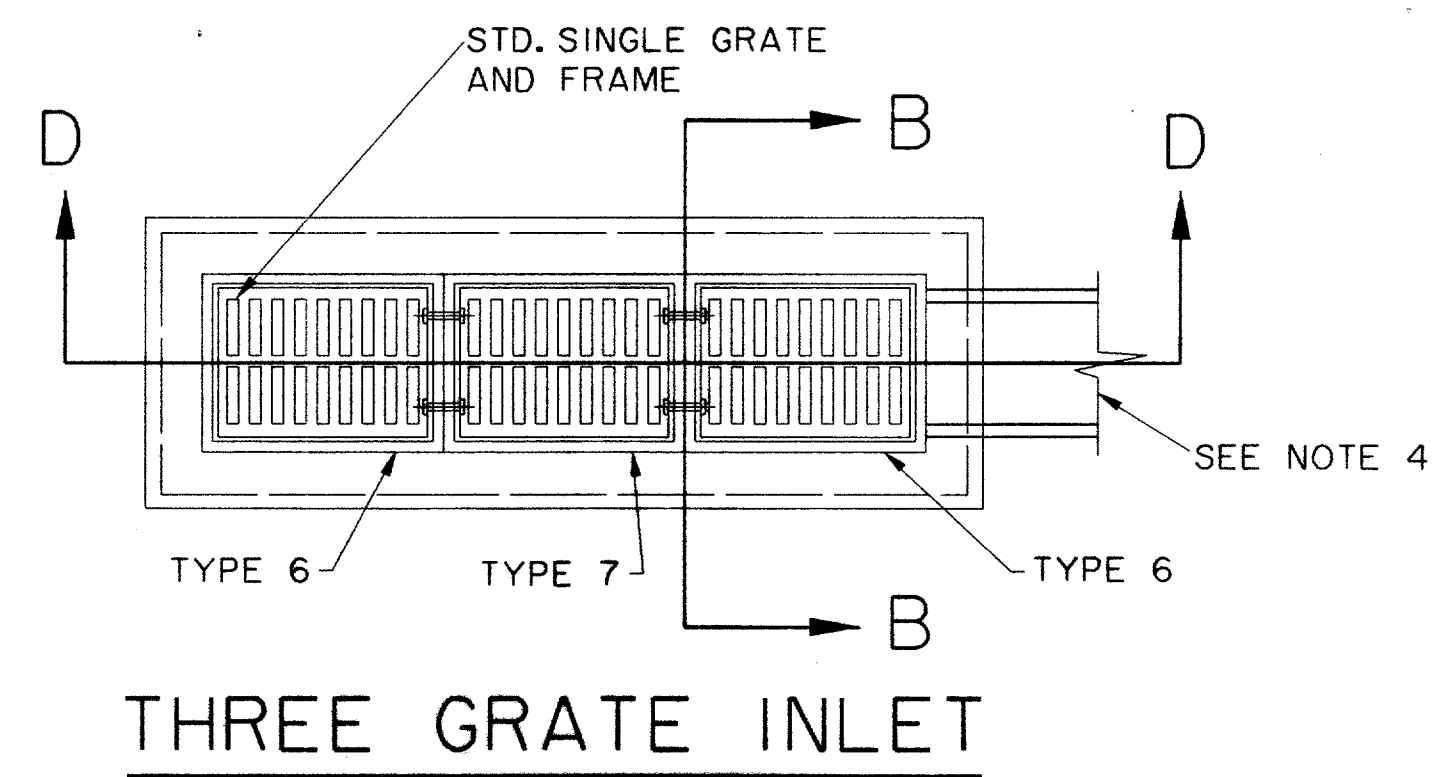
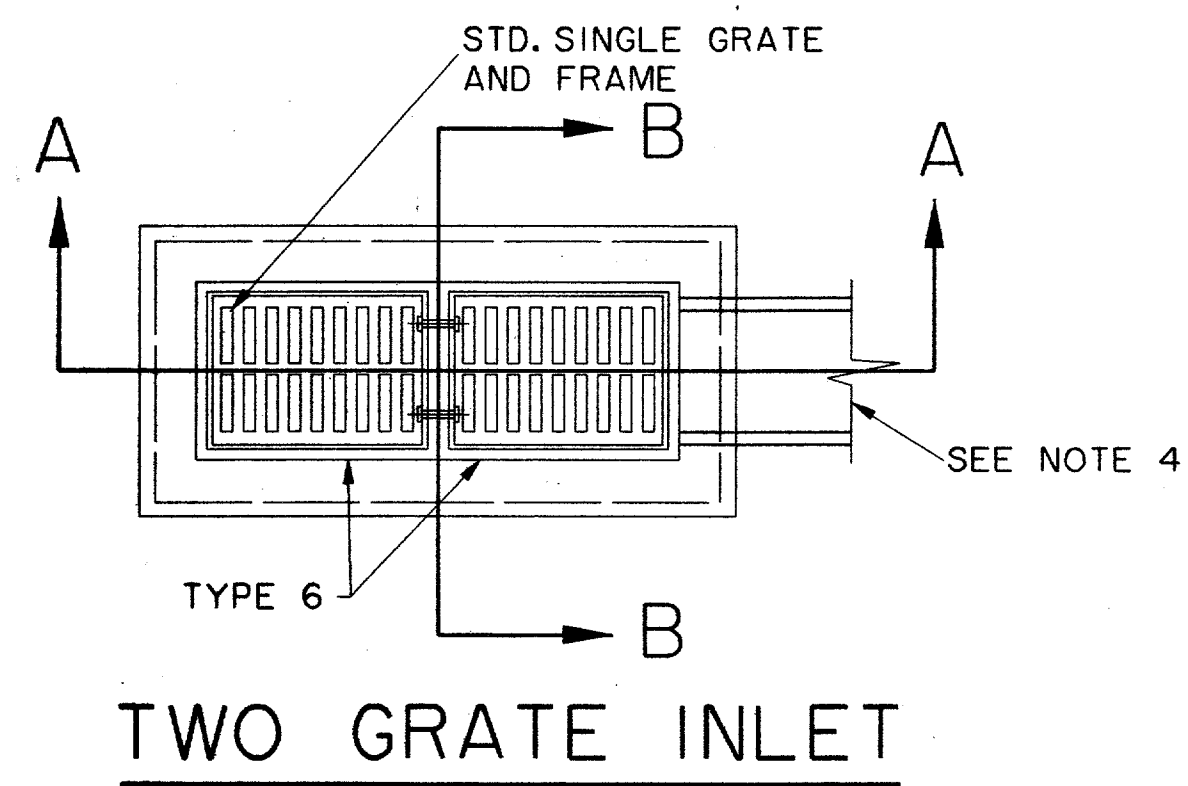


RECORD DRAWING



DATE	DESCRIPTION	REF NO.				
10/3/97	ISSUED FOR CONSTRUCTION	N/A				
7/14/97	ISSUED FOR BID	N/A				
STORM WATER DETAILS						
ADDISON CIRCLE						
PHASE II PUBLIC INFRASTRUCTURE						
TOWN OF ADDISON, TEXAS						
Huitt-Zollars, Inc./Engineering/Architecture Dallas, Fort Worth, Houston, El Paso, Phoenix, Tustin, Ontario						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	DEM	N.T.S.	JUN. 97	01-1822-21	SW27

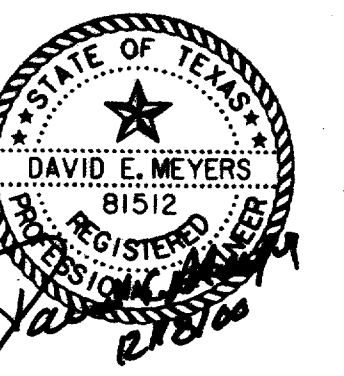
1. ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE SPECIFIED.
 2. DIMENSIONS SHOWN ARE FOR MAXIMUM SIZE INLETS.
 3. REINFORCING STEEL SHALL BE A603 GRADE 60,000 PSI YIELD STRENGTH.
 4. ALL REINFORCING STEEL SHALL BE WELDED WIRE FABRIC UNLESS OTHERWISE SPECIFIED.
 5. ALL REINFORCING STEEL SHALL BE PLACED IN THE CENTER OF THE CONCRETE.
 6. ALL REINFORCING STEEL SHALL BE PLACED IN THE CENTER OF THE CURB.
 7. ALL REINFORCING STEEL SHALL BE PLACED IN THE CENTER OF THE PAVEMENT.
 8. ALL REINFORCING STEEL SHALL BE PLACED IN THE CENTER OF THE INLET.
 9. ALL REINFORCING STEEL SHALL BE PLACED IN THE CENTER OF THE MANHOLE.
 10. ALL REINFORCING STEEL SHALL BE PLACED IN THE CENTER OF THE STRUCTURE.
 11. ALL REINFORCING STEEL SHALL BE PLACED IN THE CENTER OF THE WALL.
 12. ALL REINFORCING STEEL SHALL BE PLACED IN THE CENTER OF THE FLOOR.
 13. ALL REINFORCING STEEL SHALL BE PLACED IN THE CENTER OF THE CEILING.
 14. ALL REINFORCING STEEL SHALL BE PLACED IN THE CENTER OF THE ROOF.
 15. ALL REINFORCING STEEL SHALL BE PLACED IN THE CENTER OF THE FOUNDATION.
 16. ALL REINFORCING STEEL SHALL BE PLACED IN THE CENTER OF THE BASEMENT.
 17. ALL REINFORCING STEEL SHALL BE PLACED IN THE CENTER OF THE ATTIC.
 18. ALL REINFORCING STEEL SHALL BE PLACED IN THE CENTER OF THE GARAGE.
 19. ALL REINFORCING STEEL SHALL BE PLACED IN THE CENTER OF THE PORCH.
 20. ALL REINFORCING STEEL SHALL BE PLACED IN THE CENTER OF THE DECK.
 21. ALL REINFORCING STEEL SHALL BE PLACED IN THE CENTER OF THE PATIO.
 22. ALL REINFORCING STEEL SHALL BE PLACED IN THE CENTER OF THE BALCONY.
 23. ALL REINFORCING STEEL SHALL BE PLACED IN THE CENTER OF THE TERRACE.
 24. ALL REINFORCING STEEL SHALL BE PLACED IN THE CENTER OF THE WALKWAY.
 25. ALL REINFORCING STEEL SHALL BE PLACED IN THE CENTER OF THE DRIVEWAY.
 26. ALL REINFORCING STEEL SHALL BE PLACED IN THE CENTER OF THE SIDEWALK.
 27. ALL REINFORCING STEEL SHALL BE PLACED IN THE CENTER OF THE CURB.
 28. ALL REINFORCING STEEL SHALL BE PLACED IN THE CENTER OF THE INLET.
 29. ALL REINFORCING STEEL SHALL BE PLACED IN THE CENTER OF THE MANHOLE.
 30. ALL REINFORCING STEEL SHALL BE PLACED IN THE CENTER OF THE STRUCTURE.



NOTES:

1. ALL LAPS AND EXTENSIONS OF REINFORCING BARS SHALL BE 30 BAR DIAMETERS UNLESS NOTED OTHERWISE.
2. TACK WELD GRATES IN PLACE OR USE GRATE LOCK.
3. GRATE & FRAME SHALL BE PATTERN NO. 814 AS MANUFACTURED BY BASS & HAYES FOUNDRY, INC. OR APPROVED EQUAL.
4. PIPE MAY BE PLACED IN ANY WALL, BUT SHALL NOT ENTER ANY CORNER, OR BOTTOM.
5. CONCRETE TO BE MINIMUM OF 4200 PSI.

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY DAVID E. MEYERS, P.E. 81512



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STORM WATER DETAILS					
ADDISON CIRCLE					
PHASE II PUBLIC INFRASTRUCTURE					
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<small>Huitt-Zollars, Inc./Engineering/Architecture Dallas, Fort Worth, Houston, El Paso, Phoenix, Tustin, Ontario</small>					
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO. NO.
HZI	HZI	DEM	N.T.S.	JUN. 97	01-1822-21 SW28