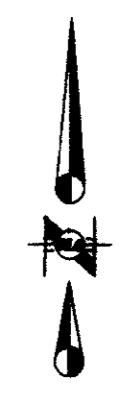
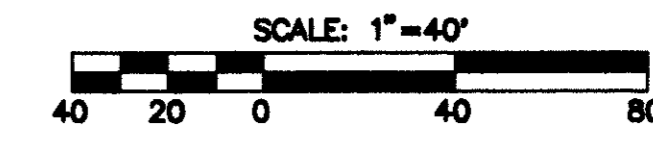




TU ELECTRIC SERVICE LINE

LINE	BEARING	LENGTH
L1	N44°49'57"	20.00'
L2	S19°44'42"	45.00'
L3	N84°32'55"	165.74'



△ SITE IMPROVEMENTS NOT CONSTRUCTED 7/28/98 DUE TO ARAPAHO ROAD CONSTRUCTION.

△ = 21°21'38"  
R = 1051.00'  
T = 198.21'  
L = 391.83'  
CB = N76°15'05"E  
CD = 389.56'

△ = 19°49'05"  
R = 739.00'  
T = 129.10'  
L = 255.61'  
CB = S75°30'48"W  
CD = 254.34'

△ = 21°28'35"  
R = 750.97'  
T = 142.42'  
L = 281.49'  
CB = N74°41'04"E  
CD = 279.84'

△ = 45°56'44"  
R = 90.00'  
T = 38.15'  
L = 72.18'  
CB = N71°36'17"W  
CD = 70.25'

△ = 58°38'44"  
R = 90.00'  
T = 50.55'  
L = 92.11'  
CB = S19°18'33"E  
CD = 88.15'

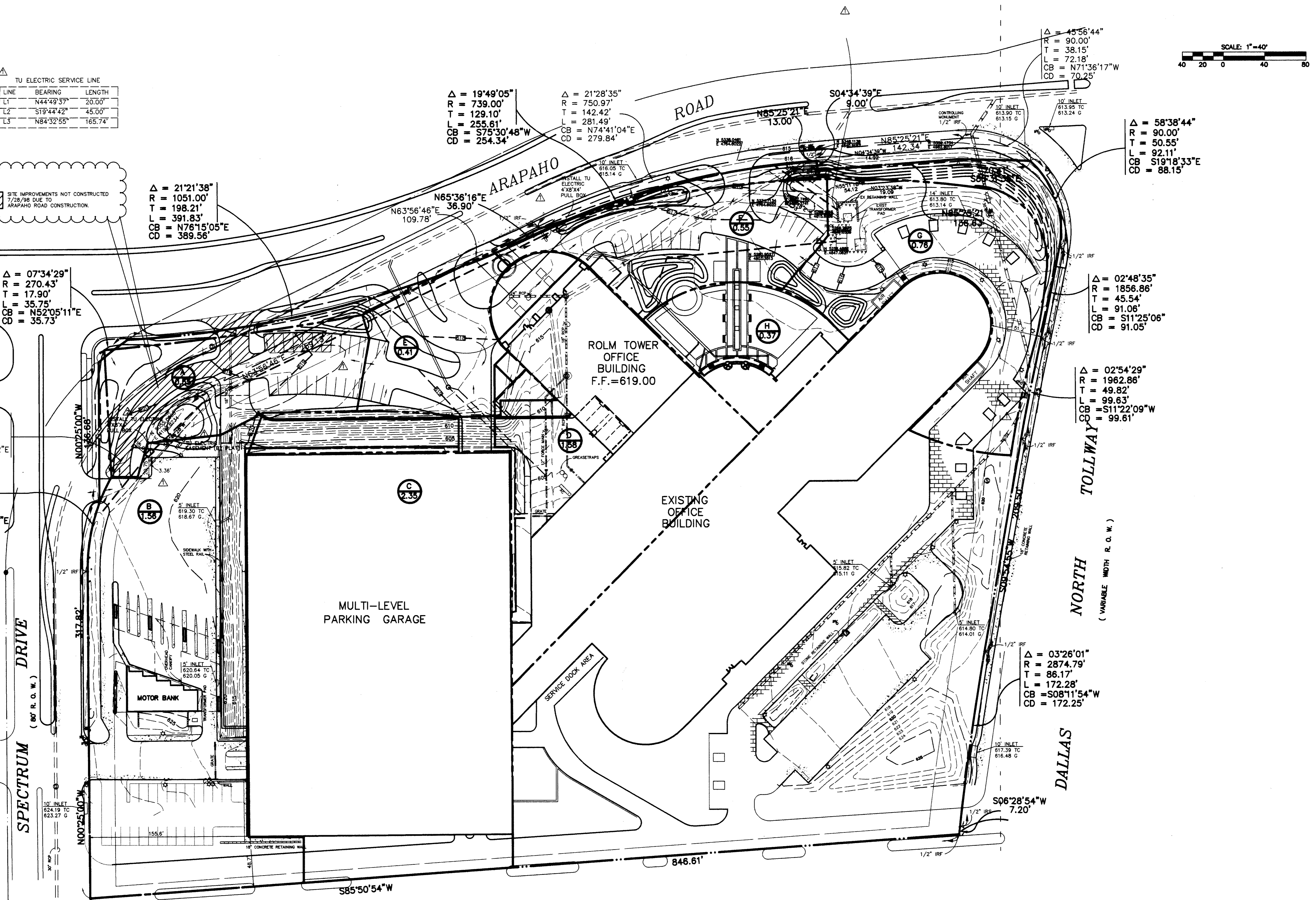
△ = 02°48'35"  
R = 1856.86'  
T = 45.54'  
L = 91.06'  
CB = S11°25'06"  
CD = 91.05'

△ = 02°54'29"  
R = 1962.86'  
T = 49.82'  
L = 99.63'  
CB = S11°22'09"W  
CD = 99.61'

△ = 03°26'01"  
R = 2874.79'  
T = 86.17'  
L = 172.28'  
CB = S08°11'54"W  
CD = 172.25'

△ = 43°54'48"  
R = 190.43'  
T = 76.77'  
L = 145.95'  
CB = N41°59'22"E  
CD = 142.41'

△ = 20°26'58"  
R = 190.43'  
T = 34.35'  
L = 67.97'  
CB = N09°48'29"E  
CD = 67.61'



DRAINAGE CALCULATIONS (Q = CIA)

DA	AREA	C	Tc	I <sub>100</sub>	Q <sub>100</sub>	REMARKS
	ACRES		MIN	IN/HR	CFS	
A	0.55	0.90	10.00	8.74	4.33	ARAPAHO ROAD
B	1.56	0.90	10.00	8.74	12.27	EXIST INLET
C	2.35	0.90	10.00	8.74	18.49	ROOF DRAINS
D	1.58	0.90	10.00	8.74	12.43	ROOF/AREA DRAINS
E	0.41	0.90	10.00	8.74	3.23	ARAPAHO ROAD
F	0.55	0.90	10.00	8.74	4.33	ARAPAHO ROAD
G	0.76	0.90	10.00	8.74	5.98	EXIST INLET
H	0.37	0.90	10.00	8.74	2.91	AREA DRAIN

LEGEND

- DRAINAGE DIVIDE LINE
- △ DRAINAGE AREA DESIGNATION
- AREA IN ACRES

RECORD DRAWING  
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DATE 7/29/98

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**MEPC AMERICAN PROPERTIES, INC.**  
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DALLAS, TX 75248

PROJECT:  
**THE COLONNADE TOWER III**

ARAPAHO AND DALLAS PARKWAY  
DALLAS, TEXAS  
PROJECT NUMBER: 5500.96061.00

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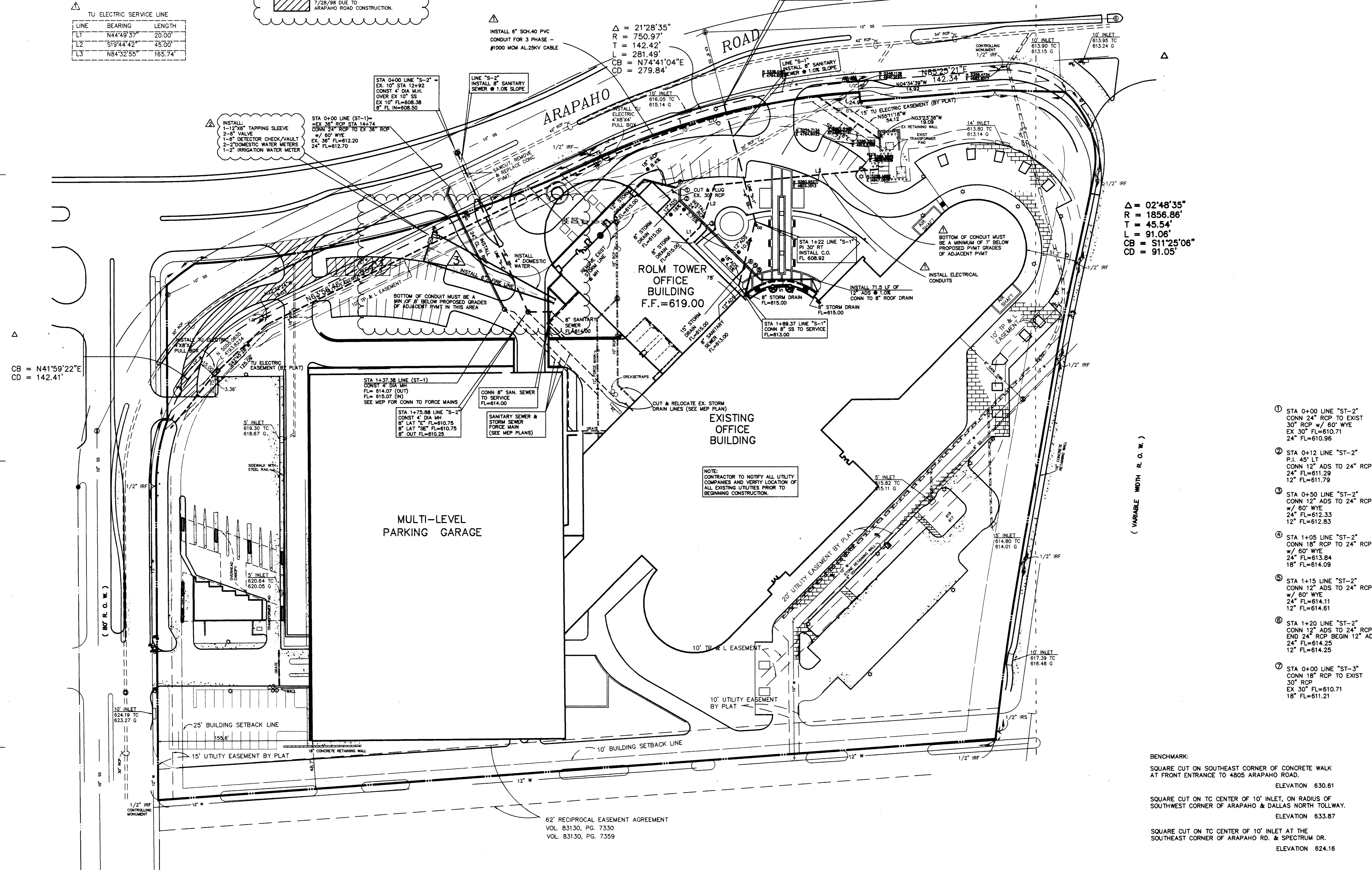
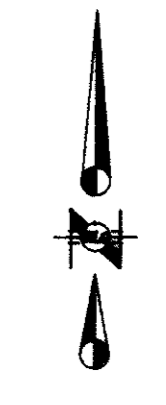
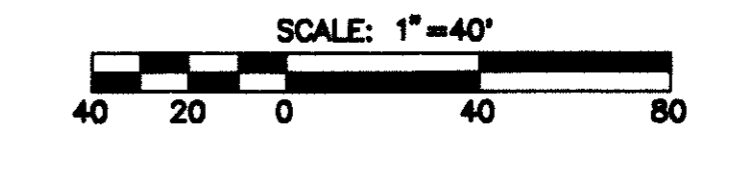
FOR PERMIT  
REVISIONS:  
NO. DATE DESCRIPTION

NO.	DATE	DESCRIPTION
1	7/28/98	RECORD DRAWINGS

TITLE:  
**DRAINAGE AREA MAP**  
DATE: MAY 23, 1997  
SHEET: **C4**

LINE	BEARING	LENGTH
L1	N44°49'37"	20.00'
L2	S19°44'42"	45.00'
L3	N84°32'55"	165.74'

△ SITE IMPROVEMENTS NOT CONSTRUCTED 7/28/98 DUE TO ARAPAHO ROAD CONSTRUCTION.

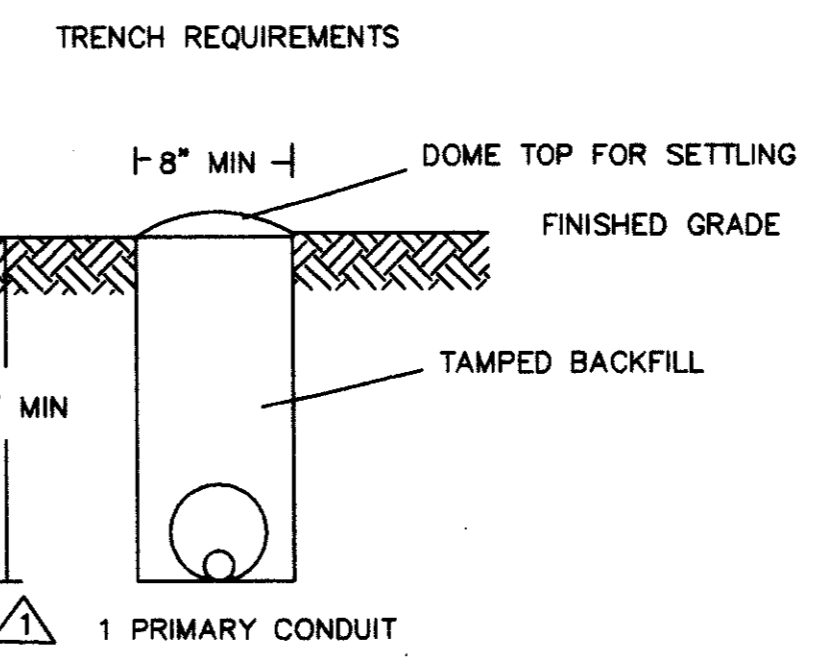


△ = 02'48'35"  
 R = 1856.86'  
 T = 45.54'  
 L = 91.06'  
 CB = S11°25'06"  
 CD = 91.05'

( VARIABLE WIDTH R. O. W. )

- ① STA 0+00 LINE "ST-2" CONN 24" RCP TO EXIST 30" RCP W/ 60" WYE EX 30" FL=610.71 24" FL=610.96
- ② STA 0+12 LINE "ST-2" P.I. 45' LT CONN 12" ADS TO 24" RCP 24" FL=611.29 12" FL=611.79
- ③ STA 0+50 LINE "ST-2" CONN 12" ADS TO 24" RCP W/ 60" WYE 24" FL=612.33 12" FL=612.83
- ④ STA 1+05 LINE "ST-2" CONN 18" RCP TO 24" RCP W/ 60" WYE 24" FL=613.84 18" FL=614.09
- ⑤ STA 1+15 LINE "ST-2" CONN 12" ADS TO 24" RCP W/ 60" WYE 24" FL=614.11 12" FL=614.61
- ⑥ STA 1+20 LINE "ST-2" CONN 12" ADS TO 24" RCP END 24" RCP BEGIN 12" ADS 24" FL=614.25 12" FL=614.25
- ⑦ STA 0+00 LINE "ST-3" CONN 18" RCP TO EXIST 30" RCP EX 30" FL=610.71 18" FL=611.21

BENCHMARK:  
 SQUARE CUT ON SOUTHEAST CORNER OF CONCRETE WALK AT FRONT ENTRANCE TO 4805 ARAPAHO ROAD.  
 ELEVATION 630.61  
 SQUARE CUT ON TC CENTER OF 10' INLET, ON RADIUS OF SOUTHWEST CORNER OF ARAPAHO & DALLAS NORTH TOLLWAY.  
 ELEVATION 633.87  
 SQUARE CUT ON TC CENTER OF 10' INLET AT THE SOUTHEAST CORNER OF ARAPAHO RD. & SPECTRUM DR.  
 ELEVATION 624.16

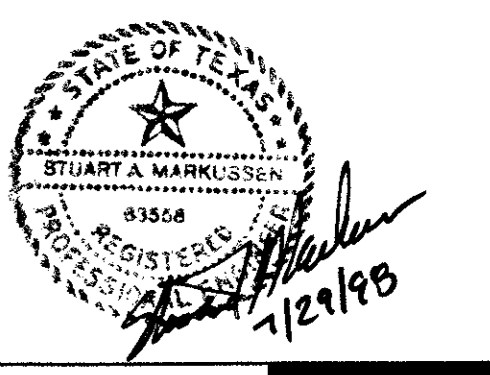


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 DATE 7/21/98

- GENERAL NOTES**
1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE TOWN OF ADDISON STANDARDS AND SPECIFICATIONS AND TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION FOR NORTH CENTRAL TEXAS, LATEST EDITION AND THE TOWN OF ADDISON ADDENDUM THERETO.
  2. ALL DRAINAGE STRUCTURES SHALL BE 3500 PSI CONCRETE AT 28 DAYS.
  3. A MINIMUM OF CLASS III REINFORCED CONCRETE PIPE SHALL BE USED ON ALL STORM SEWER SYSTEMS UNLESS OTHERWISE NOTED. RAM NECK SHALL BE USED ON ALL PIPE JOINTS UNLESS PRIOR APPROVAL RECEIVED.
  4. ALL BACKFILL SHALL BE COMPACTED TO 95% OF STANDARD PROCTOR DENSITY IN SIX (6) INCH LIFTS.
  5. WATER JETTING WILL NOT BE ALLOWED.
  6. ALL WYE CONNECTIONS AND BENDS SHALL BE MANUFACTURED FITTINGS.

7. TRENCH ALIGNMENTS SHALL BE AS STRAIGHT AS CONDITIONS PERMIT. ANY DEVIATIONS FROM PLANNED ALIGNMENT SHALL HAVE PRIOR APPROVAL BY THE PROJECT ENGINEER/INSPECTOR. ALL TRENCH CUTS SHALL BE IN ACCORDANCE WITH EXISTING SAFETY REGULATIONS IN EFFECT.
8. TRENCH BOTTOM SHOULD BE UNDISTURBED, TAMPED, OR RELATIVELY SMOOTH EARTH, WHERE EXCAVATION IS IN ROCK, THE CONDUIT SHOULD BE LAID ON A LAYER OF CLEAN BACKFILL.
9. ALL BACKFILL SHOULD BE FREE OF DEBRIS OR OTHER MATERIAL THAT MAY DAMAGE THE CONDUIT SYSTEM OR CAUSE SETTLING. THE MATERIAL SHOULD FILL THE VOIDS AROUND THE CONDUIT TO PREVENT HOT SPOTS AND SETTLING.
10. BACKFILL SHOULD BE ADEQUATELY COMPACTED. BACKFILL NOT UNDER PAVEMENT SHOULD BE COMPACTED TO THE DENSITY OF THE SURROUNDING UNDISTURBED SOIL. BACKFILL UNDER PAVEMENT SHOULD BE COMPACTED TO NOT LESS THAN 95% OF THE DENSITY OF UNDISTURBED SOIL AS DETERMINED BY ASTM DESIGNATION D-698.
11. EACH CONDUIT RUN SHALL BE CHECKED BY PULLING MANDREL THROUGH THE ENTIRE LENGTH. A V8 INCH NYLON PULLING CORD SHALL BE LEFT IN EACH CONDUIT. CONDUIT SHALL BE PLUGGED AT BOTH ENDS.

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**FOR PERMIT**

NO.	DATE	DESCRIPTION
1	7/2/97	ADD TU ELECTRIC LINE
2	7/15/97	MOVED PULL BOX & RELOCATED METERS AND FIRE VAULT
3	7/28/98	RECORD DRAWINGS

**TITLE:**  
 UTILITY PLAN  
**DATE:** MAY 23, 1997  
**SHEET:** C5