

STREET IMPROVEMENTS FOR BRUSH CREEK ADDITION

RUSHWOOD ————— S.L. LOT 25, BLK. 2, & S.L. LOT 4, BLK. 1 TO S.L. 37TH ST.

RUSHWOOD COURT — E.L. RUSHWOOD TO & INCL. CUL-DE-SAC SERVING LOTS 1 - 11, BLK. 2.

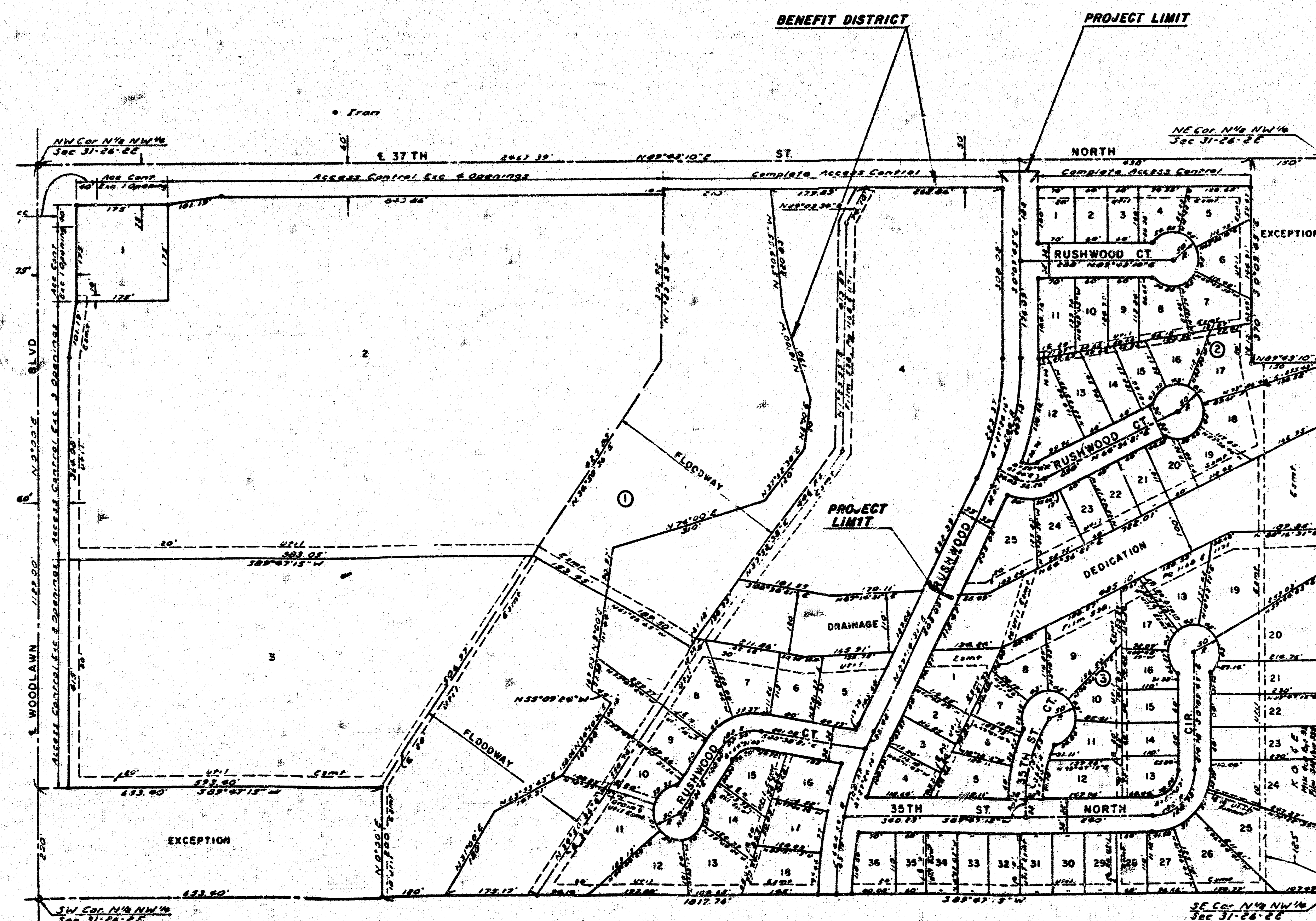
RUSHWOOD COURT — E.L. RUSHWOOD TO & INCL. CUL-DE-SAC SERVING LOTS 12-25, BLK. 2.

PROJECT NO.

472 76 245 81338 000 000 001

INDEX TO SHEETS

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2-3	Typical Pavement Section
4	Pavement Jointing Detail
5-8	Pavement Plans
9-12	Earthwork sections



LOCATION & BENEFIT DISTRICT MAP

General Notes

The contractor shall be responsible for preserving property irons. The contractor shall be required to re-establish any property irons which are damaged or destroyed by his construction operations. Such irons shall be re-established by a licensed land surveyor or a professional engineer in accordance with state laws.

No drive-ways shall be bid or constructed with this project.

The contractor is to contact the Gas Service Company and the City Water Department to verify line locations and to coordinate their construction schedules with one another.

The contractor shall be responsible for proper ditch grading as noted at both ends of the project in order to provide proper drainage. The cost of the grading shall be considered as incidental to the project.

CITY OF WICHITA, KS.

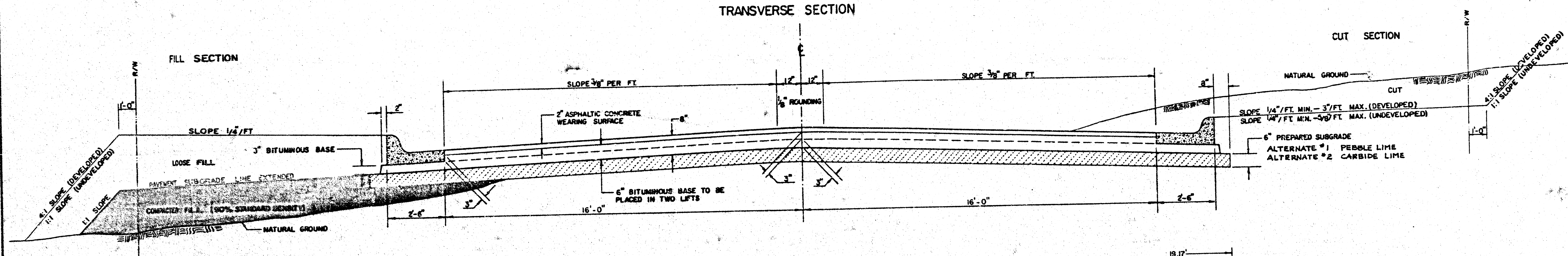
MIKE E. LINDEBAK — CITY ENGINEER

MARCH 1984

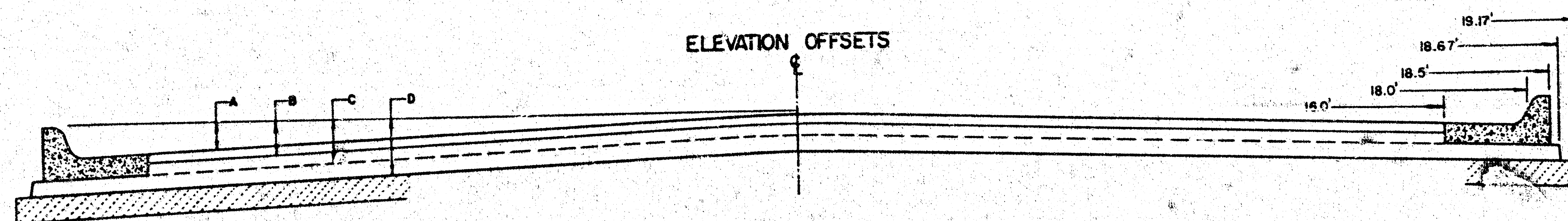


TYPICAL 37' PAVEMENT DETAILS

TRANSVERSE SECTION

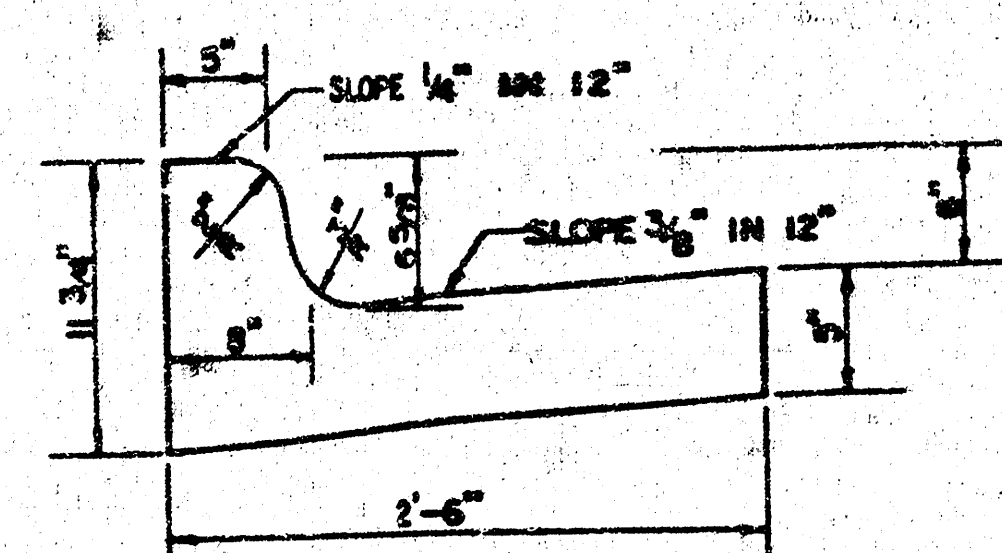


ELEVATION OFFSETS



	DISTANCE FROM CENTERLINE (LT. & RT.)												
	0	2	4	6	8	10	12	14	16	18	18.5	18.67	19.17
A: TOP OF CURBS TO TOP OF SURFACE LIFT	.01	.05	.11	.18	.24	.30	.36	.43	.49	—	—	—	—
B: TOP OF CURBS TO TOP OF UPPER BASE LIFT	.17	.22	.27	.34	.40	.47	.53	.59	.65	—	—	—	—
C: TOP OF CURBS TO TOP OF LOWER BASE LIFT	.42	.47	.53	.59	.65	.72	.78	.84	.90	.97	.98	.99	—
D: TOP OF CURBS TO TOP OF SUBGRADE	.67	.72	.76	.84	.90	.97	1.03	1.09	1.15	1.22	1.23	1.24	1.25

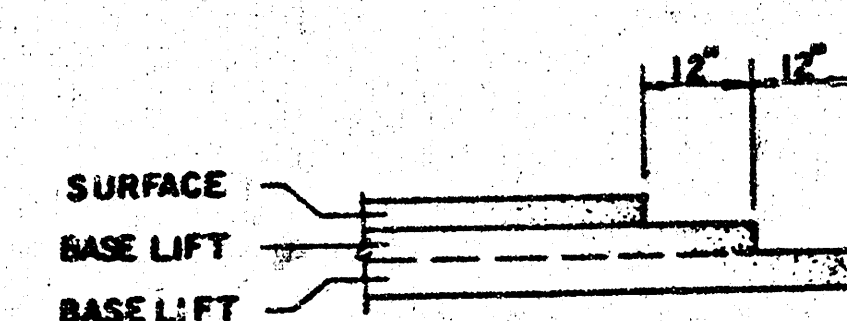
COMBINED CURB & GUTTER



GENERAL NOTES

- 1) THE ASPHALTIC CONCRETE PAVEMENT BETWEEN THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS OF 8" ASPHALTIC CONCRETE (6" BITUMINOUS BASE).
- 2) THE BITUMINOUS BASE UNDER AND BEHIND THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS OF 3" BITUMINOUS BASE.
- 3) A TACK COAT OF EMULSIFIED ASPHALT (SC-1H OR CSS-1H) SHALL BE APPLIED AT AN APPROXIMATE RATE OF 0.05 GALLONS PER SQUARE YARD BETWEEN EACH LIFT OF ASPHALTIC MATERIAL.
- 4) BITUMINOUS BASE AND ASPHALTIC CONCRETE WEARING SURFACE SHALL BE PLACED WITH A LAYDOWN MACHINE HAVING AUTOMATIC CONTROLS FOR LINE AND GRADE.
- 5) CONSTRUCTION JOINTS IN EACH LIFT SHALL BE STAGGERED A MINIMUM DISTANCE OF ONE (1) FOOT FROM JOINTS IN PRECEDING LIFTS AND PLACED SO THAT A JOINT WILL BE CONSTRUCTED ON THE CENTERLINE OF THE TOP LIFT.
- 6) CONTRACTOR TO BID ONLY ONE SUBGRADE TREATMENT ALTERNATE WHEN ALTERNATES ARE PROVIDED IN THE PROPOSAL AND CONTRACT. THE ALTERNATE CHOSEN BY THE SUCCESSFUL BIDDER SHALL BE USED IN CONSTRUCTING THIS PROJECT.

TRANSVERSE CONSTRUCTION JOINTS

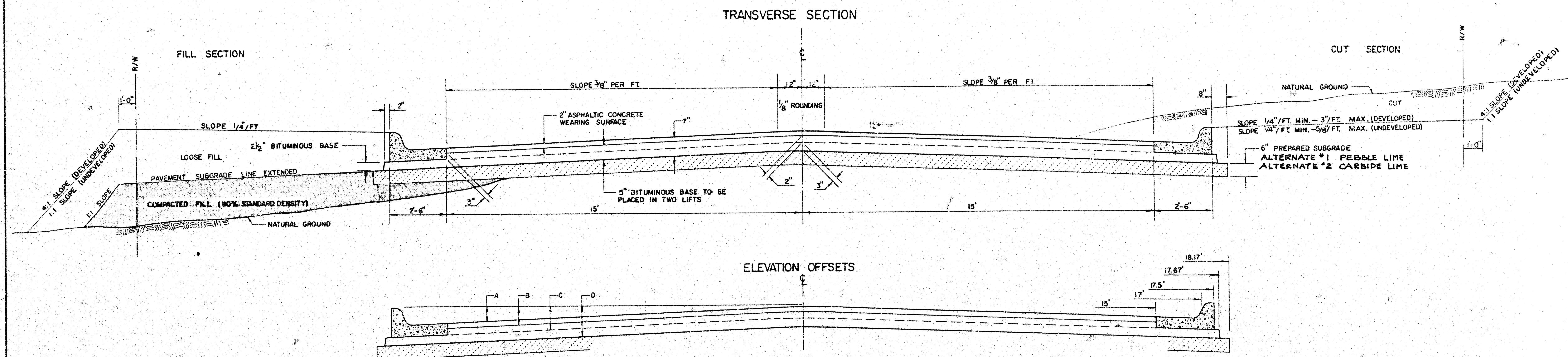


TRANSVERSE CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN EXISTING BASE PAVEMENTS AT LOCATIONS WHERE PAVEMENT JOINTS EXISTING FLEXIBLE BASE PAVEMENT AS SHOWN BY THE DETAIL. ALL COSTS ASSOCIATED WITH THE CONSTRUCTION OF THE TRANSVERSE JOINT SHALL BE INCLUDED IN THE BID PRICE FOR SQUARE YARDS 8" ASPHALTIC CONCRETE (6" BITUMINOUS BASE).

8 INCH RESIDENTIAL ASPHALTIC CONCRETE
PAVEMENT WITH 6 INCH BITUMINOUS BASE
CITY OF WICHITA, KANSAS

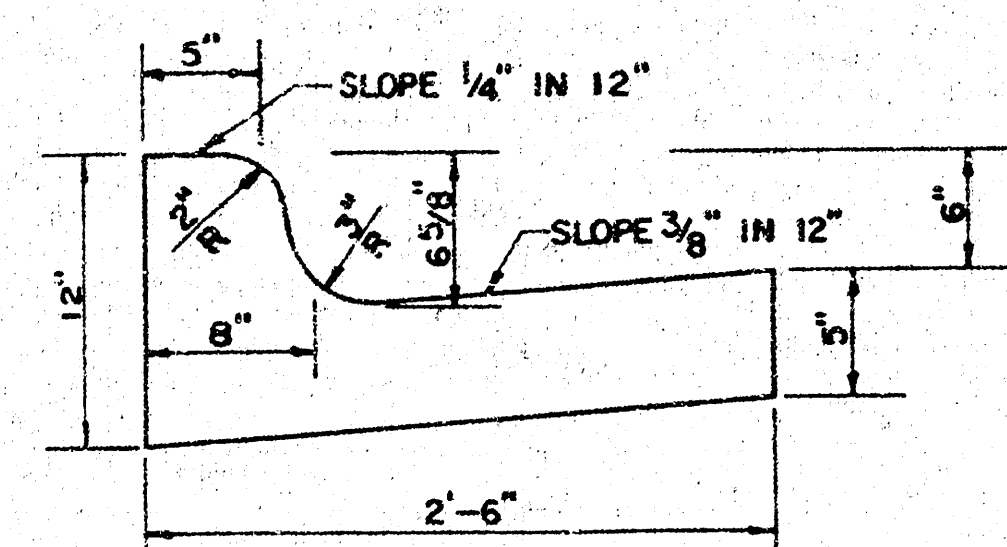
PROJECT NUMBER
472-76-245-81338-000-000-001

TYPICAL 35' PAVEMENT DETAILS



	DISTANCE FROM CENTERLINE (LT. & RT.)												
	0'	2'	4'	6'	8.5'	10'	12'	14'	15'	17'	17.5'	17.67'	18.17'
A. TOP OF CURBS TO TOP OF SURFACE LIFT	0.04	0.08	0.14	0.21	0.29	0.33	0.39	0.46	0.49	—	—	—	—
B. TOP OF CURBS TO TOP OF UPPER BASE LIFT	0.21	0.25	0.31	0.37	0.45	0.50	0.56	0.62	0.65	—	—	—	—
C. TOP OF CURBS TO TOP OF LOWER BASE LIFT	0.37	0.43	0.50	0.57	0.67	0.72	0.79	0.87	0.90	0.98	1.00	1.00	—
D. TOP OF CURBS TO TOP OF SUBGRADE	0.62	0.67	0.74	0.81	0.90	0.95	1.02	1.08	1.12	1.19	1.21	1.21	1.23

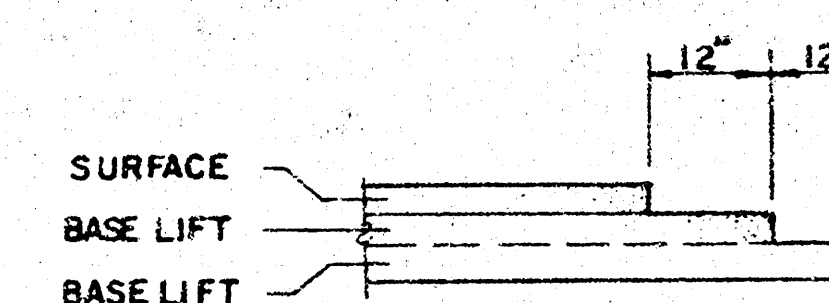
COMBINED CURB & GUTTER



GENERAL NOTES

- 1) THE ASPHALTIC CONCRETE PAVEMENT BETWEEN THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS OF 7" ASPHALTIC CONCRETE (5" BITUMINOUS BASE).
- 2) THE BITUMINOUS BASE UNDER AND BEHIND THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS OF 2 1/2" BITUMINOUS BASE.
- 3) A TACK COAT OF EMULSIFIED ASPHALT (SC-1H OR CSS-1H) SHALL BE APPLIED AT AN APPROXIMATE RATE OF 0.05 GALLONS PER SQUARE YARD BETWEEN EACH LIFT OF ASPHALTIC MATERIAL.
- 4) BITUMINOUS BASE AND ASPHALTIC CONCRETE WEARING SURFACE SHALL BE PLACED WITH A LAYDOWN MACHINE HAVING AUTOMATIC CONTROLS FOR LINE AND GRADE.
- 5) CONSTRUCTION JOINTS IN EACH LIFT SHALL BE STAGGERED A MINIMUM DISTANCE OF ONE (1) FOOT FROM JOINTS IN PRECEDING LIFTS AND PLACED SO THAT A JOINT WILL BE CONSTRUCTED ON THE CENTERLINE OF THE TOP LIFT.
- 6) CONTRACTOR TO BID ONLY ONE SUBGRADE TREATMENT ALTERNATE WHEN ALTERNATES ARE PROVIDED IN THE PROPOSAL AND CONTRACT. THE ALTERNATE CHOSEN BY THE SUCCESSFUL BIDDER SHALL BE USED IN CONSTRUCTING THIS PROJECT.

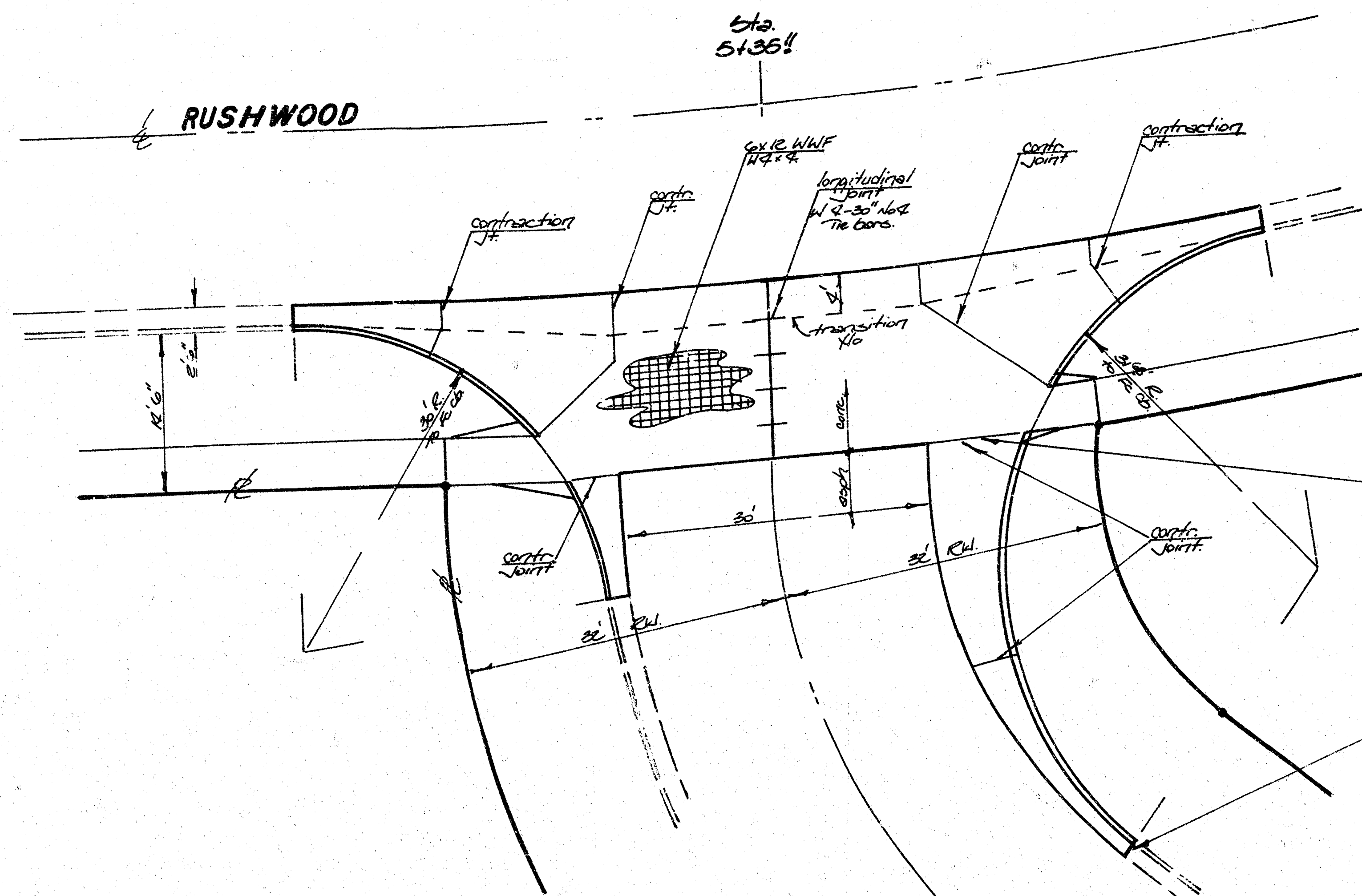
TRANSVERSE CONSTRUCTION JOINTS



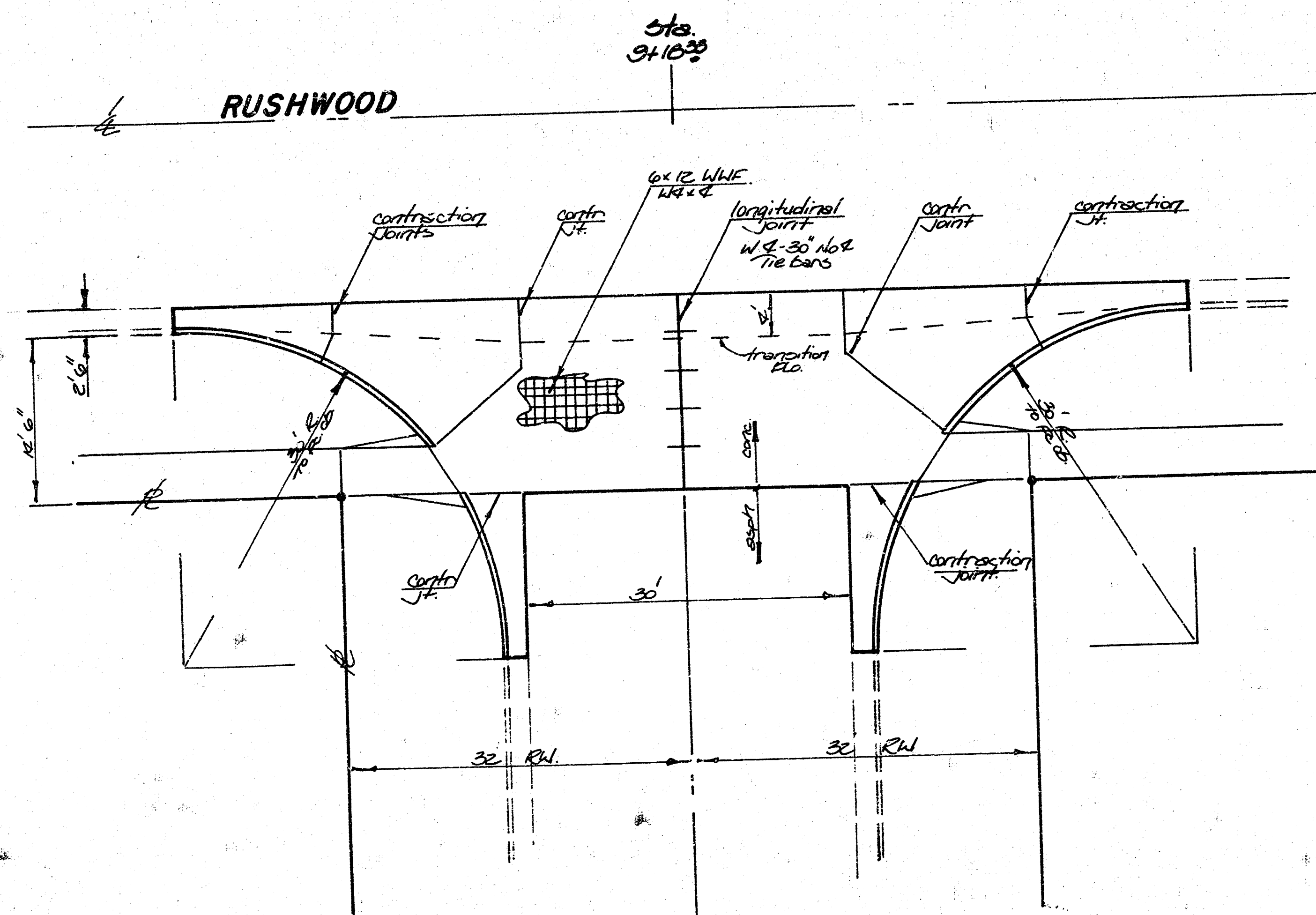
TRANSVERSE CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN FLEXIBLE BASE PAVEMENTS AT LOCATIONS WHERE PAVEMENT JOINTS EXISTING FLEXIBLE BASE PAVEMENT AS SHOWN BY THE DETAIL. ALL COSTS ASSOCIATED WITH THE CONSTRUCTION OF THE TRANSVERSE JOINT SHALL BE INCLUDED IN THE BID PRICE FOR SQUARE YARDS 7" ASPHALTIC CONCRETE (5" BITUMINOUS BASE).

7 INCH RESIDENTIAL ASPHALTIC CONCRETE
PAVEMENT WITH 5 INCH BITUMINOUS BASE
CITY OF WICHITA, KANSAS

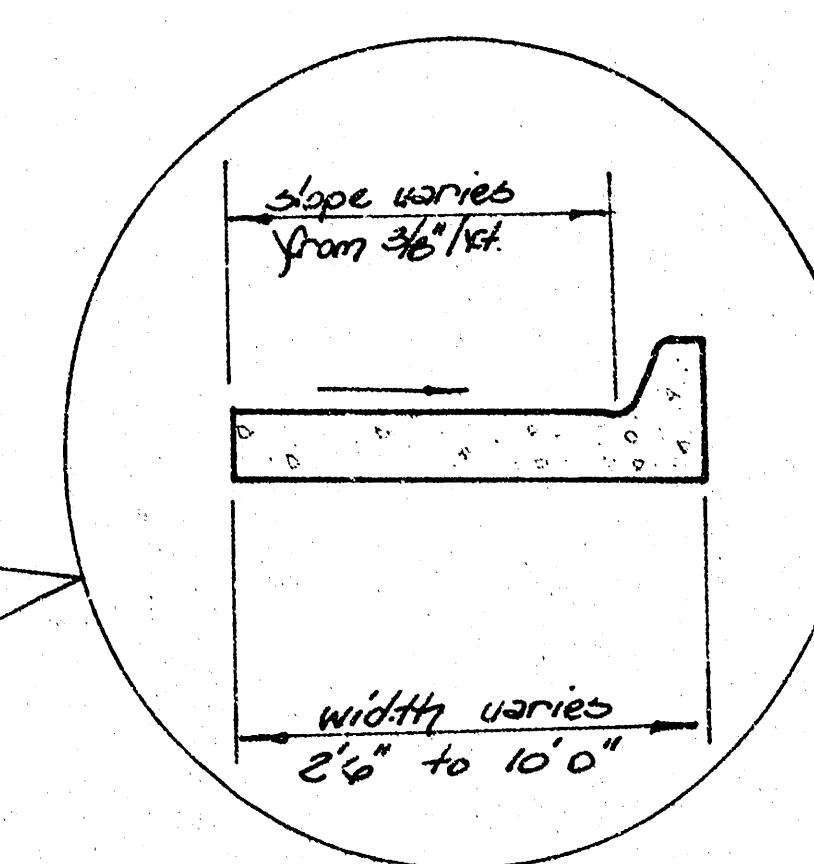
PROJECT NUMBER
472-76-245- 81338 - 000-000-001



DETAIL
RUSHWOOD VALLEY GUTTER
AT RUSHWOOD CT. TO SERVE LOTS 12-25

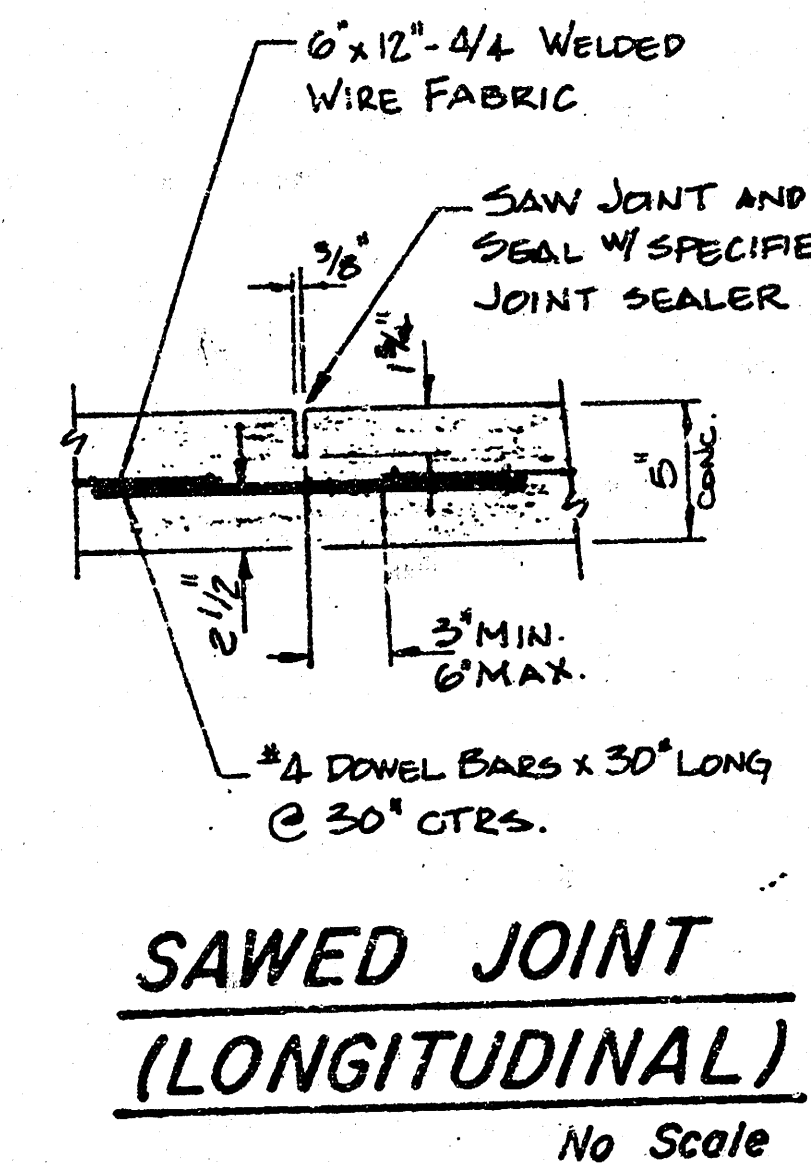
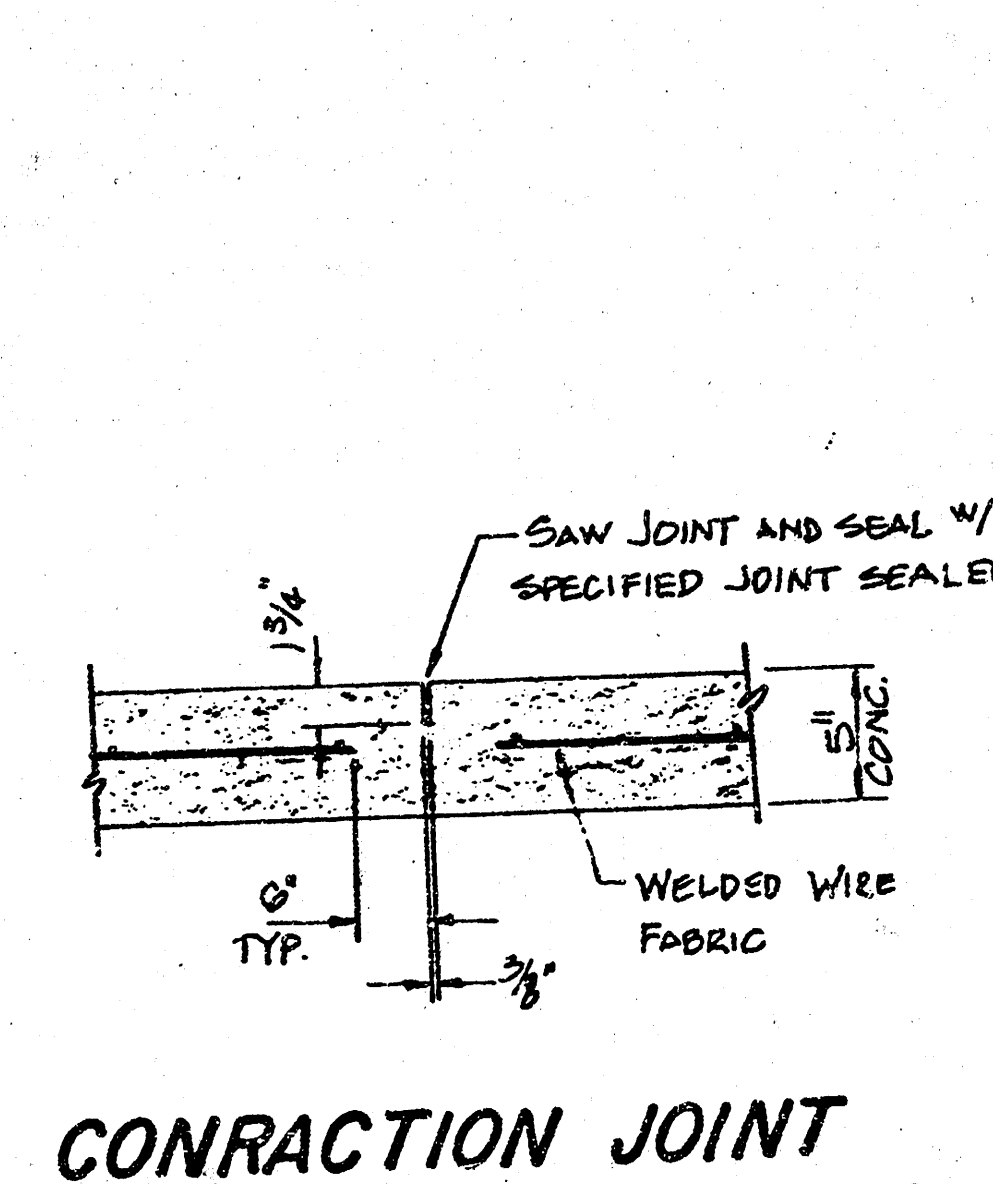
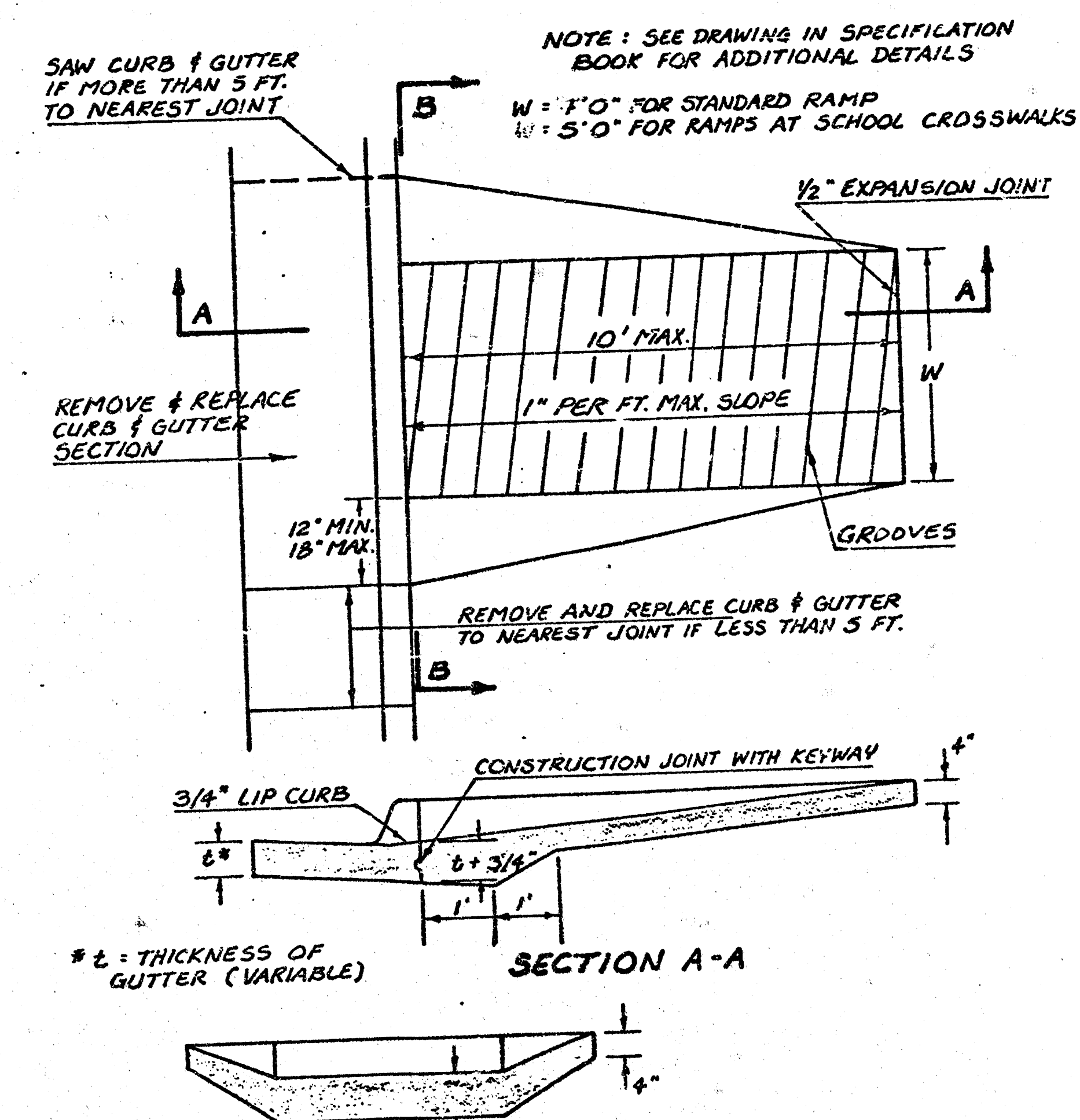


DETAIL
RUSHWOOD VALLEY GUTTER
AT RUSHWOOD CT. TO SERVE LOTS 1-11



Note: Transition section of curb & gutter shall be paid as L.F. Std. Combined Curb & Gutter. ADDITIONAL ASPHALT BASE & MANIPULATION UNDER TRANSITION SECTION CURB & GUTTER WILL NOT BE MEASURED OR PAID FOR DIRECTLY. COST SHALL BE INCIDENTAL TO CURB & GUTTER.

STANDARD WHEELCHAIR RAMP CONSTRUCTION DETAIL FOR
STREETS WITH COMBINED CURB & GUTTER



B.M. 166.17 City Std. Orm. 76' W & 35' N. of E. Woodlawn & 5th St. No.
 B.M. 161.88 RR. Spk. 17 H.P. 142' E. & 20' S. of E. Rushwood & 5th St. No.

Scale
 1" = 20'

Note: Contractor to grade a ditch from the end of the pavement to the channel to provide a drainage way. The cost of the grading shall be considered as incidental to the project.

Note: R.C.C. and channel excavation & pavement to be constructed soon in Phase II.

Begin Construction Sta. 2+83.28

Barriades to be constructed "By Others"

Curve data based off $\Delta = 27^{\circ}24'16''$ $R = 500'$ $T = 12.12'$ $LC = 236.78'$ $\Delta_c = 13^{\circ}32'08''$

Sta.	Arc	Chord	Lengths	Off.	Total Off.
		to Ch. U.C.	to R.C.C.		
5+03.28	0			0' 00" 00"	0' 00" 00"
5+15.11	36'	30.35'		1' 50" 05"	1' 50" 05"
5+42.38	274'	226.5'		1' 32" 44"	3' 22" 49"
5+61.28	183'	173'	82'	1' 05" 01"	4' 27" 50"
6+00	183'	173'	104'	1' 04" 19"	5' 32" 09"
6+25	258'	233'	82'	1' 25" 57"	6' 58" 06"
6+50	"	"	"	1' 25" 56"	8' 23" 02"
6+75	"	"	"	1' 25" 57"	9' 48" 59"
7+00	"	"	"	1' 25" 57"	11' 14" 56"
7+25	258'	233'	26'	1' 25" 56"	12' 40" 52"
7+42.38	173'	163'	104'	0' 55" 46"	13' 36" 08"

Off. / Ft. = 3.45775 min.

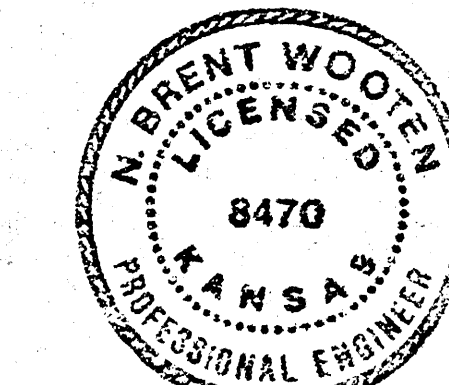
Earthwork Quantities	
Excavation = 3302.2 CY	Compacted Fill = 288.1 CY
+ 10% = 3632.4 CY	+ 10% = 316.9 CY
Total = 3720.4 CY	Total = 316.9 CY
Manipulation = 6786 S.Y.	

INTERSECTION QUANTITIES

S.Y.	Concrete Pavement
1661 S.Y.	Asphaltic Conc. Pavement (6" Bituminous Base)
S.Y.	Bituminous Base
563 S.Y.	Combined Curb & Gutter
668 S.Y.	Manhole Curb
2 S.Y.	4" Wheelchair Ramp
S.F.	4" Walk
C.Y.	Excavation
C.Y.	Compacted Fill
Lbs.	Reinforcing Steel
1661 S.Y.	Manipulation
1 Yds	Line or Cement
527 S.Y.	V.G. 5" Concrete & 3" Asphaltic Concrete Slab

Symbols

— W — Indicates Water Main
 — B — Indicates Bell Tele. Line
 — — — — — Indicates Irons
 — — — — — Indicates Existing Trees

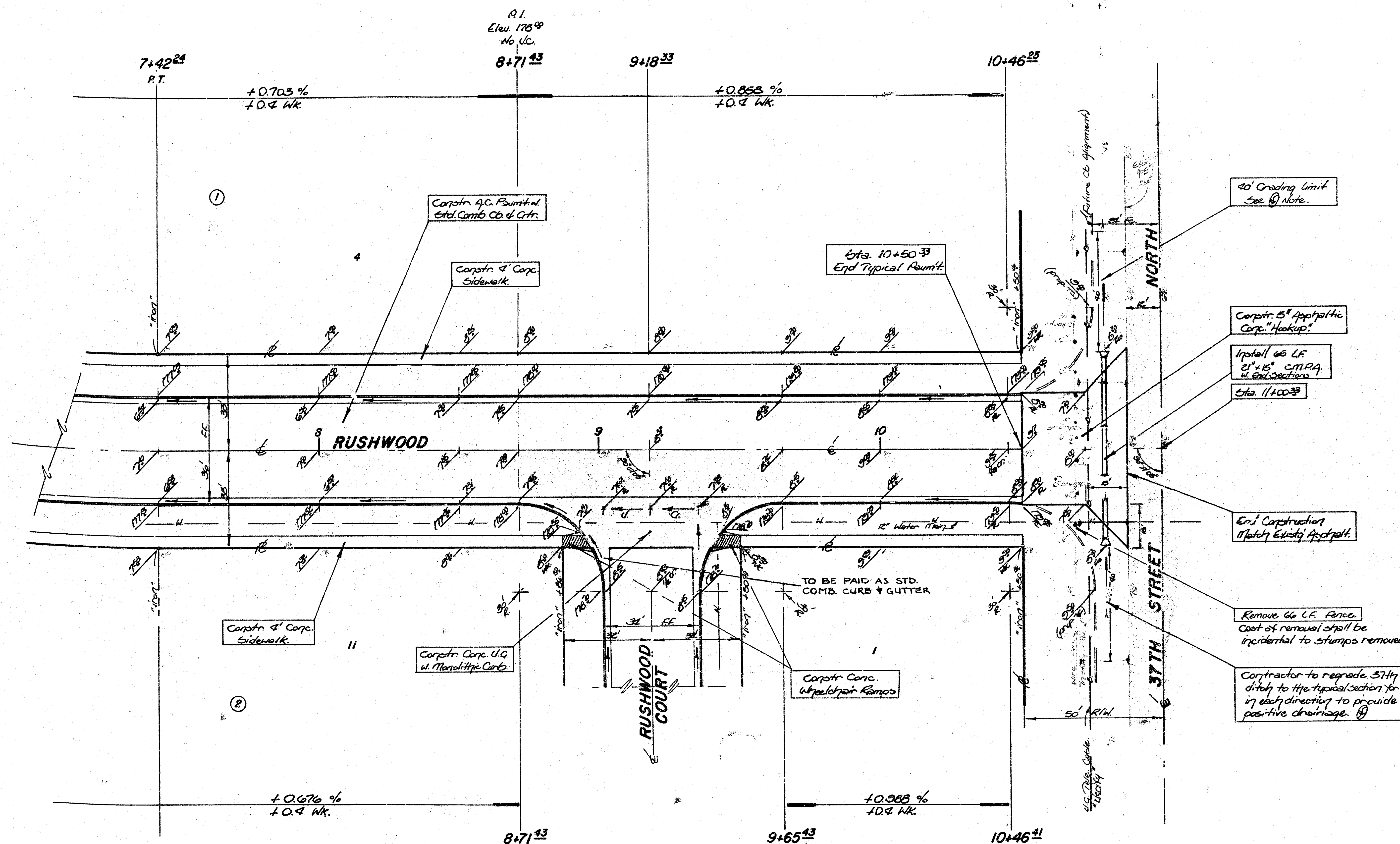


RUSHWOOD
 STA. 2+70.32 to 7+42.38

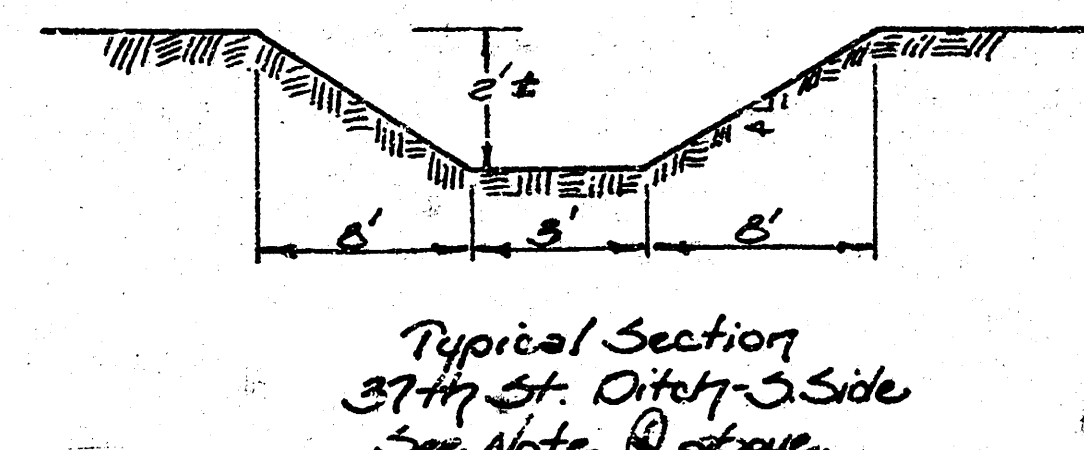
5/12

B.M. 126.17 City St. Loc. 70' W & 35' N. of E. Woodlawn & 37th St. No.
 B.M. 181.28 R.R. Spk. in HLP 1627' E. & 23' S. of E. Rushwood & 37th St. No.

Scale 1" = 20'



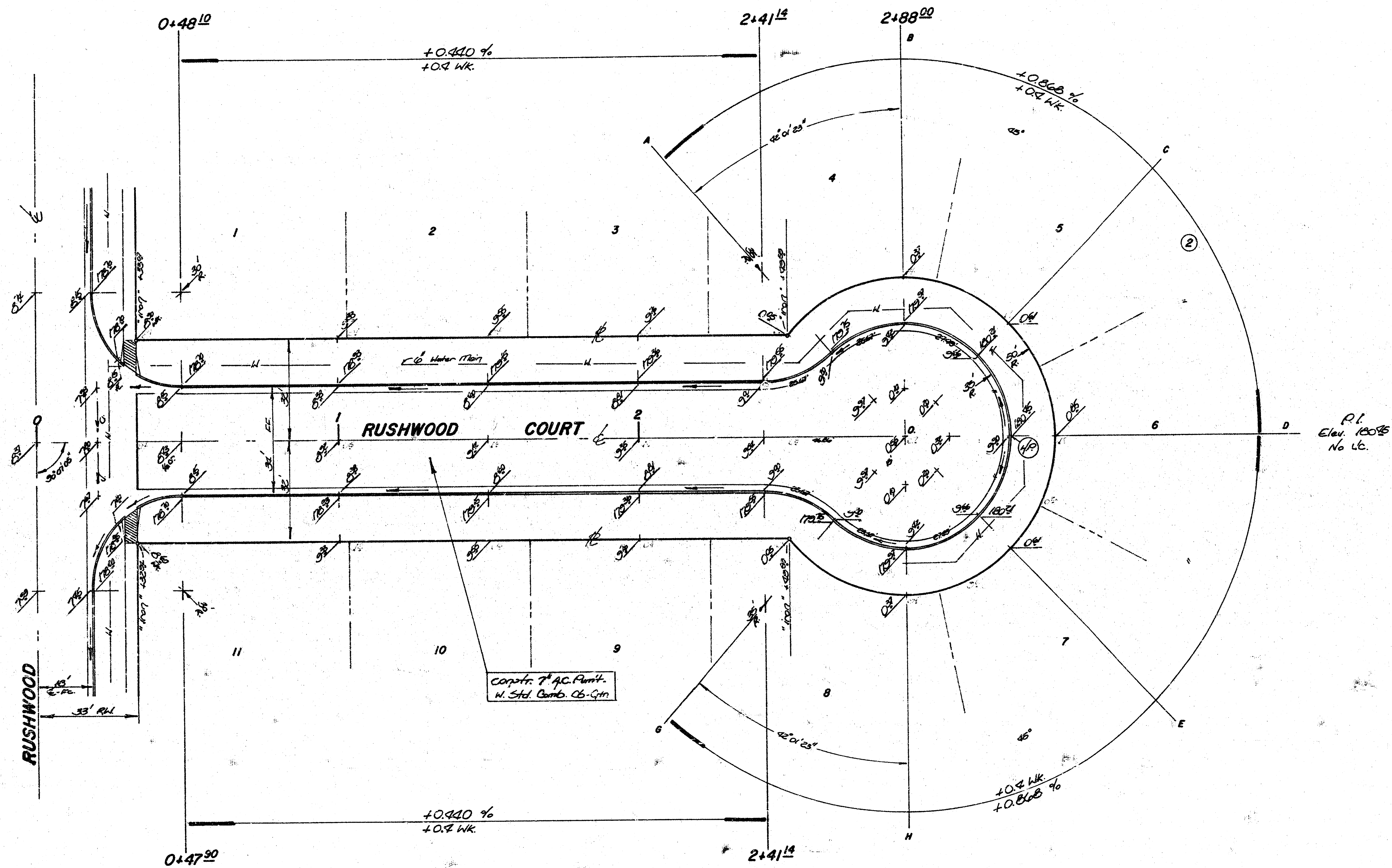
INTERSECTION QUANTITIES	
100	Concrete Pavement
102	S.Y. 5" Asphaltic Conc. Pavement (6" Bituminous Base)
57	S.Y. 3" Bituminous Base
31	LF Concrete Curb & Gutter
66	LF Monolithic Curb
2	EA. 4" Wheelchair Ramp
2	S.F. 4" Walk
1	C.Y. Excavation
1	C.Y. Compacted Fill
1	Lbs. Reinforcing Steel
300	S.Y. Manipulation
1	Tons Lime or Cement
102	S.Y. V.G. 5" Concrete & 3" Asphaltic Concrete Base



RUSHWOOD
 STA. 7+42.24 to 10+50.33

6/12

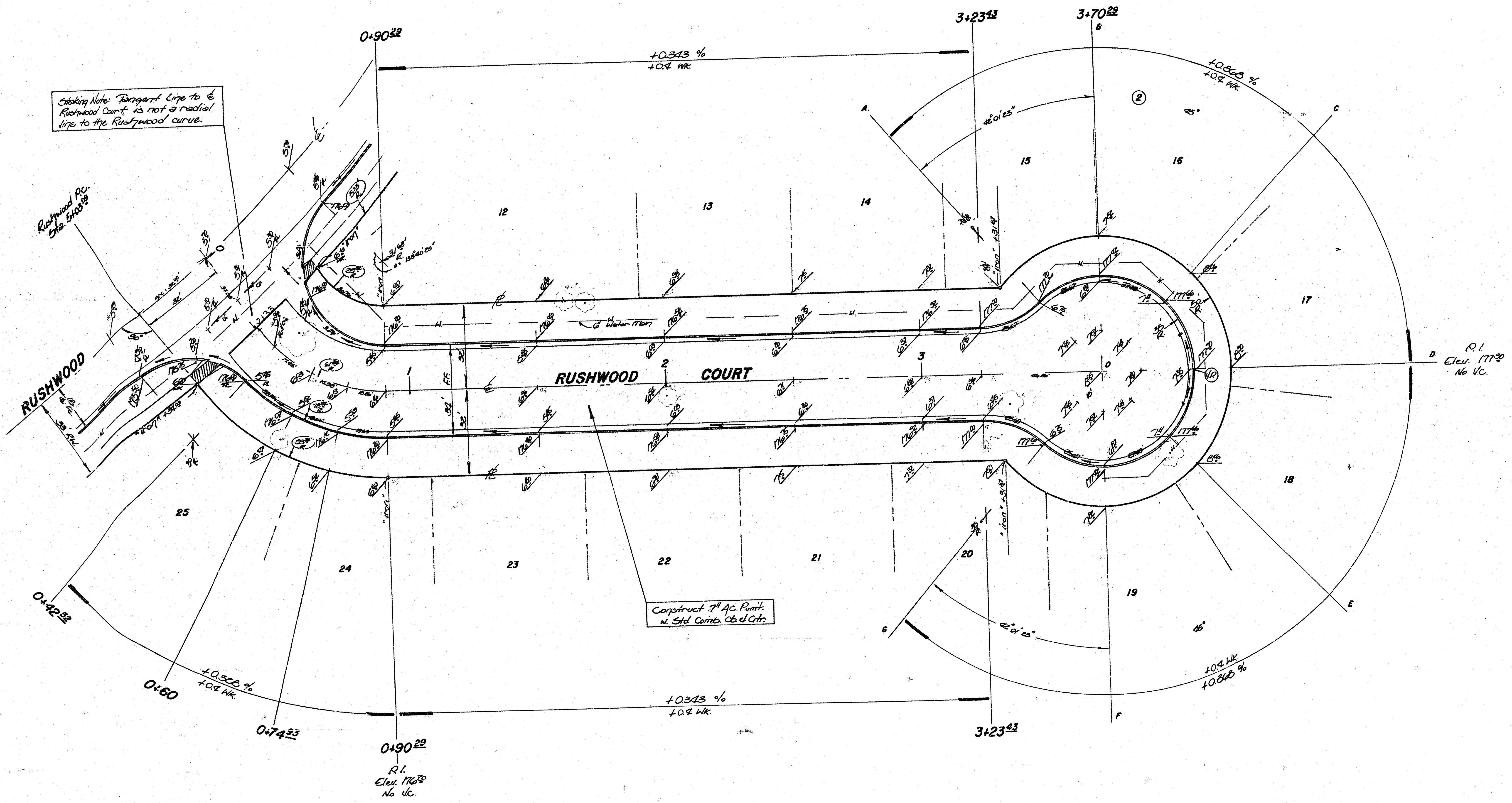
B.M. 186.17 City Std. Obs. 76' W & 33' N of E of Woodlawn & 37th St. N6.
 B.M. 181.28 R.R. Spk. 7 H.P. 142.7' E & 29' S of E Rushwood & 37th St. N6.



RUSHWOOD COURT
 LOTS 1-11, BLK. 2

Staking Note: Tangent line to E. Rushwood Court is not a radial line to the Rushwood curve.

Scale:
1" = 20'

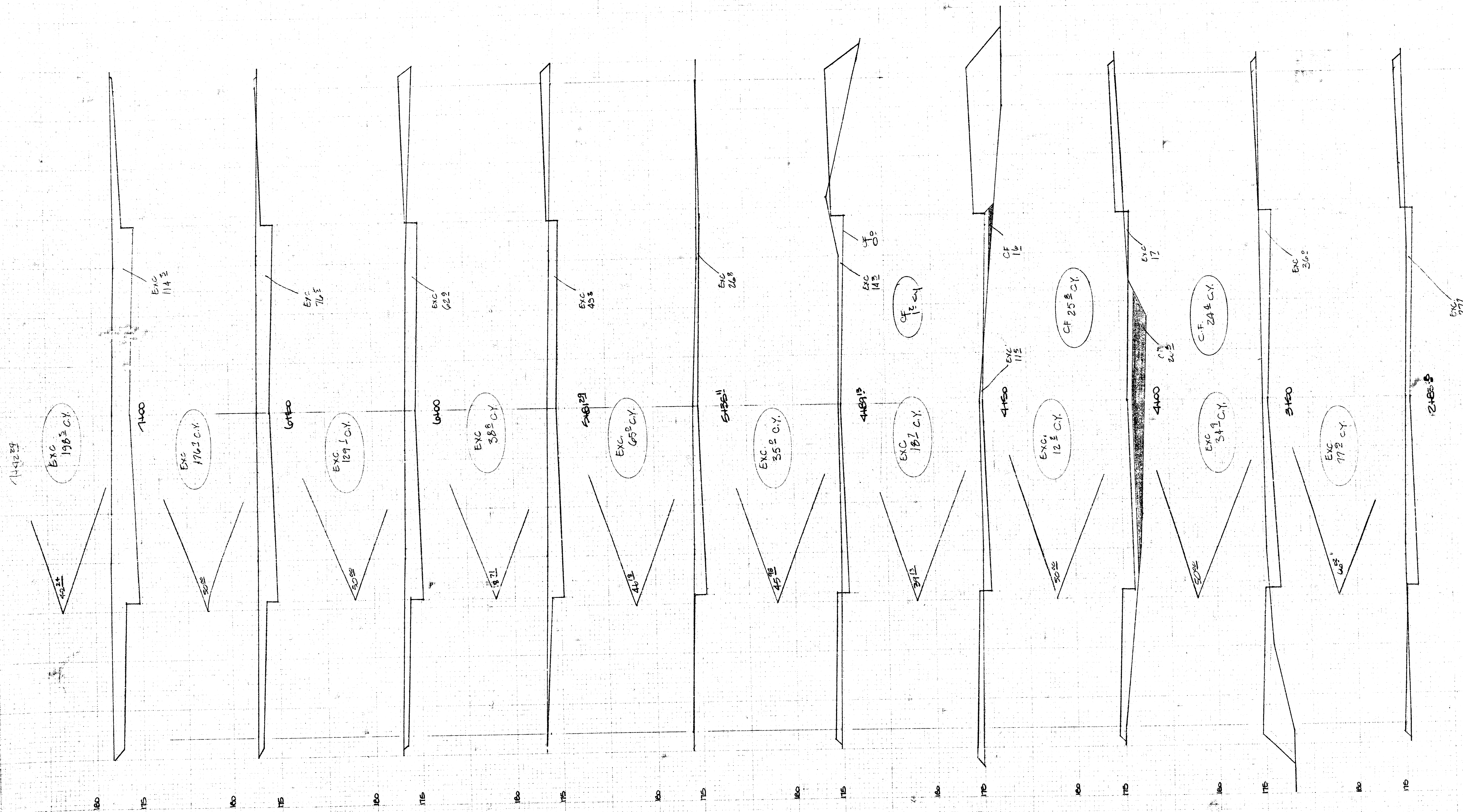


Curve Data based on $R = 2619.00'$

Sta.	Arc	Ch. (ft)	Defl. (deg)	Total Defl. (deg)
0+34.52	0	0' 00" 00"	0' 00" 00"	0' 00" 00"
0+42.52	8.0'	11.95'	3' 56' 18"	3' 56' 18"
0+60	17.5'	23.51'	8' 10' 51"	12' 06' 55"
0+74.53	14.5'	20.91'	6' 58' 05"	19' 07' 58"
0+90.22	15.5'	21.51'	7' 11' 08"	26' 19' 06"

Defl. 1/4th = 26.06222 mtr.

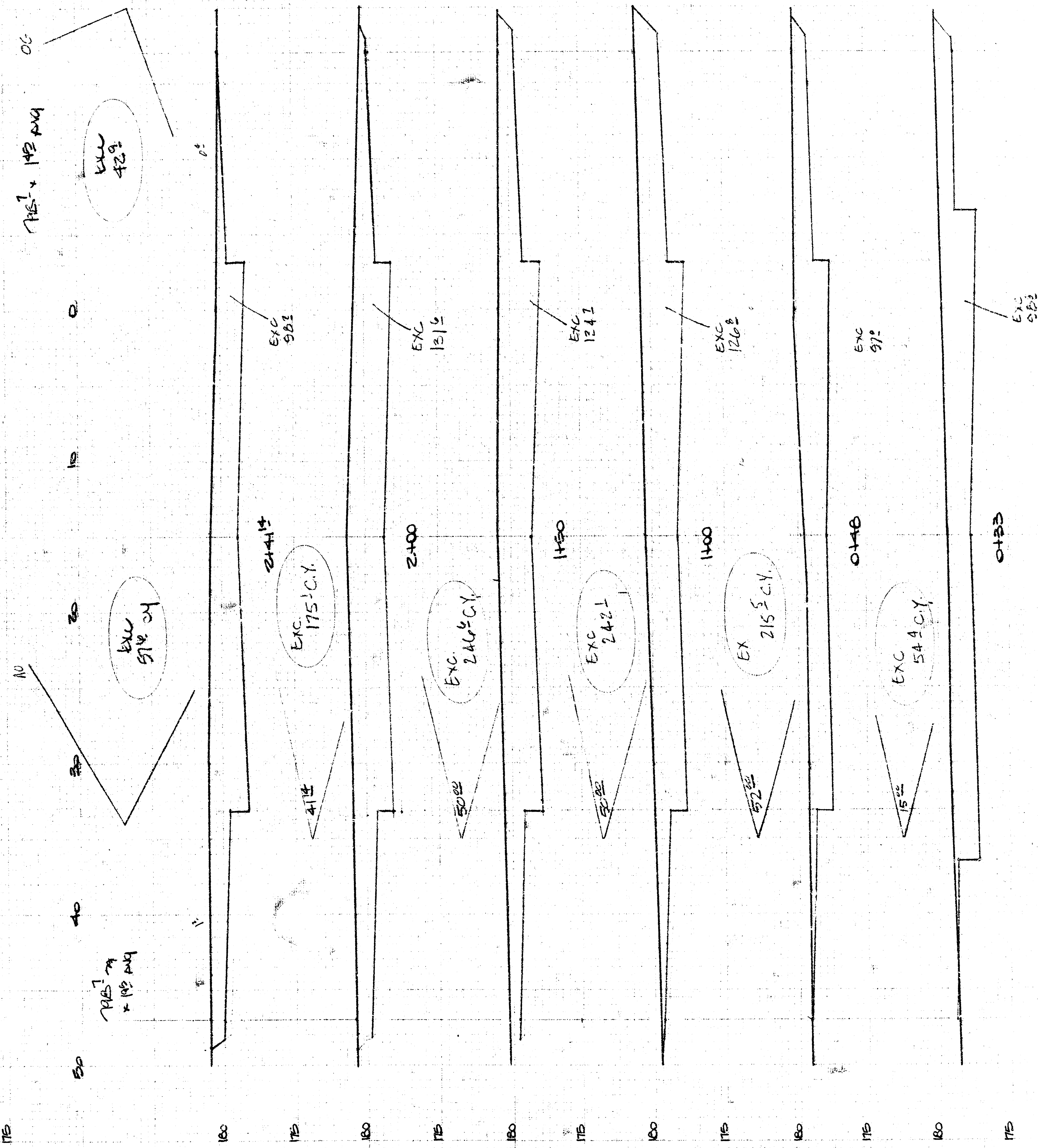
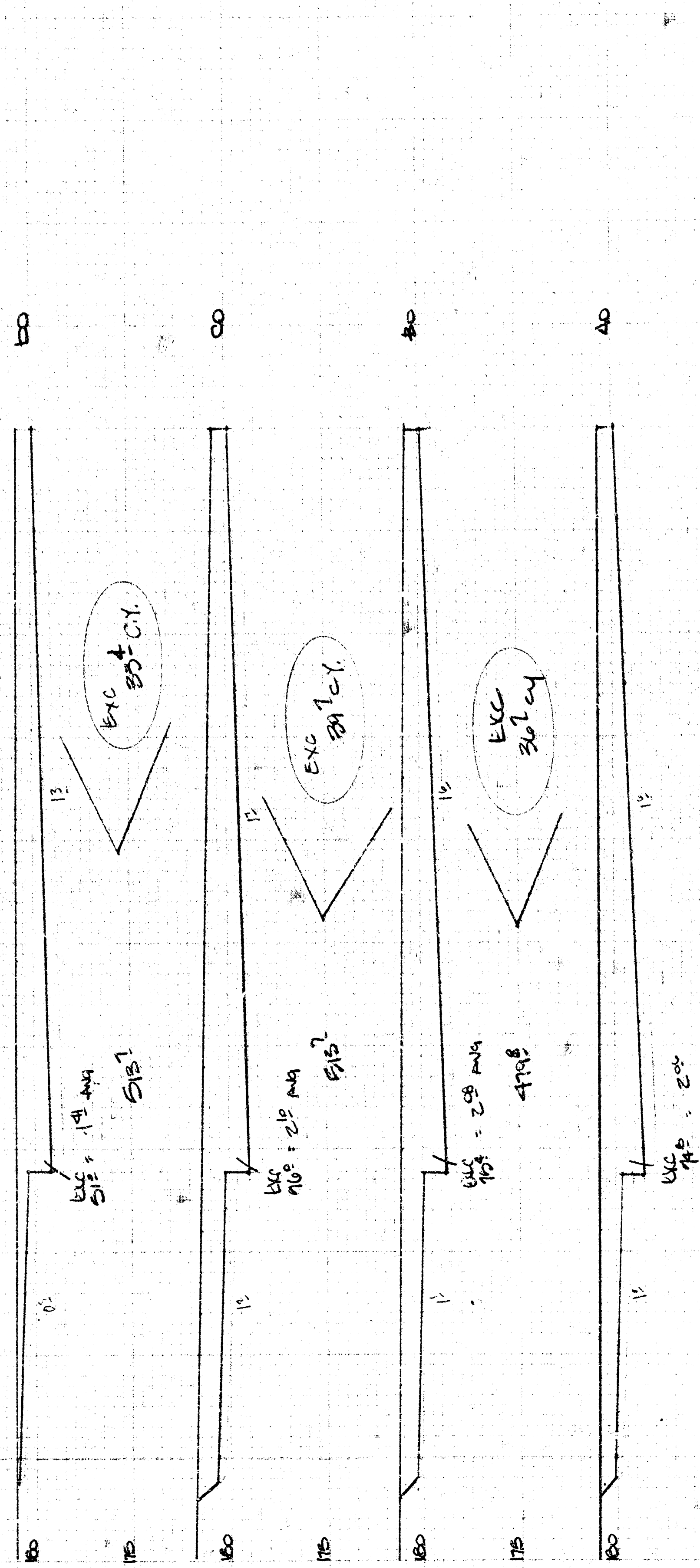
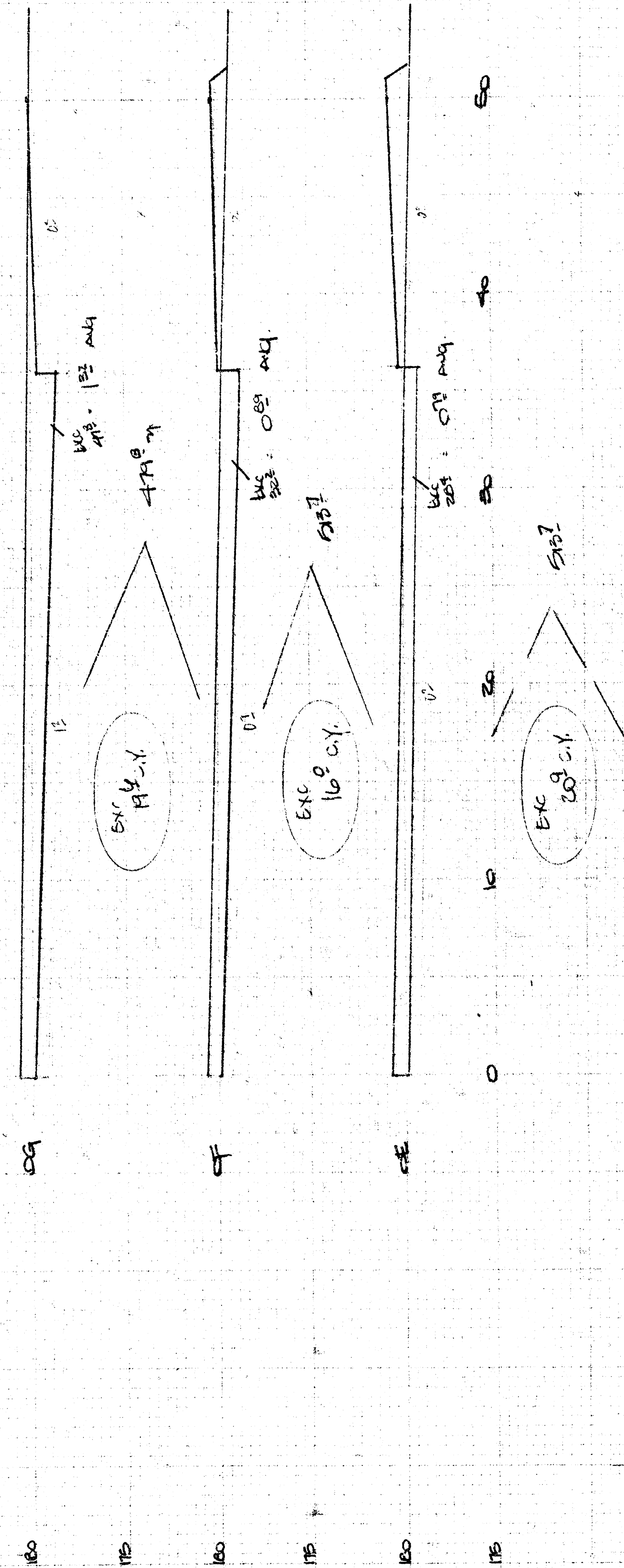
RUSHWOOD COURT
LOTS 12-25, BLK. 2



TOTAL EXCAVATION QUANTITY = 388.3 CY.
 Comp. FILL QUANTITY = 288.1 CY.

TO END OF ROAD
 EARTHWORK
 SECTIONS

CHECK TOTAL
 186.5 CY EXC -
 51.2 CY CF -



Start Total = 1200' at 100' of

Let's fill all 2
Bridges of
Bridges of
Bridges of

11/12

