STREET IMPROVEMENTS FOR

PRAIRIE PARK 2ND ADDITION

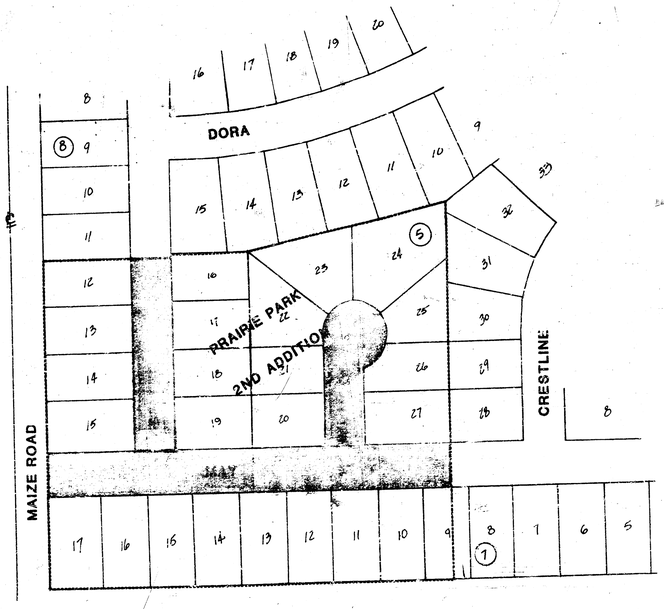
DENENE -FROM THE N.L. OF MAY TO THE S.L. OF LOT 11, BLOCK 8
MAY - FROM E.L. OF MAIZE ROAD TO THE W.L. LOT 28, BLOCK 3
MAY COURT - IN BLK. 5- FROM THE N.L. OF MAY TO AND INCL. CUL-DE-SAC

PROJECT NO.

472-76-245-81054-000-000-001

INDEX

1	TITLE SHEET
2	29' B.B. PAVEMENT TYPICAL
3	35' B.B. PAVEMENT TYPICAL
4-7	STREET PLANS
8-9	INCIDENTAL DRAINAGE PLANS
10	TYPE 1A INLET DETAIL
11-15	EARTHWORK QUANTITIES



PROJECT BENCH MARKS

#1 City Disc, Center of Medial Strip on U.S. 54 and 40 feet ENE of Center Line Maize Road. Elev. = 126.97 City Datum

#2 R.R. Spike in NE side of Power pole, 80 feet N of SW Corner, Lot 15, Block 8, Prarie Park 2nd Addition. Elev. = 140.65 City Datum

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.

Street pavement widths in this project shall be as follows:
MAY - 28' Fc.-Fc. A.C. Pavement w. Roll Curb & Gtr.
DENENE - 34' Fc.-Fc. A.C. Pavement w. Std. Cb. & Gtr.
MAY CT.- 28' Fc.-Fc. A.C. Pavement w. Roll Cb. & Gtr.
All street Right of Ways are 64' widths.

No driveways shall be constructed on this project.

All transition sections of combined curb & gutter between full height standard and roll type are to be bid and paid for as L.F. Roll Type Combined Curb & Gutter.

Ditching shall be constructed at the east end of May to drain the pavement and shall be considered as incidental to the project.

The Engineer shall approve the amount of Fence and Tree Row to be removed for the storm sewer line. Only the minimum amount shall be removed.

Contractor is to contact the necessary utility companies for location of any underground lines they may have in the vicinity of the construction.

CITY OF WICHITA, KANSAS

MIKE E. LINDEBAK — CITY ENGINEER

N. BRENT WOOLEY LICENSED 8470 KANSAS PROFESSIONAL ENGINEER

September 1994

BAUGHMAN COMPANY, P.A.
SURVEYING & ENGINEERING
316/262-7271 • 330 LAURA • WICHITA, KANSAS 67211

1/15

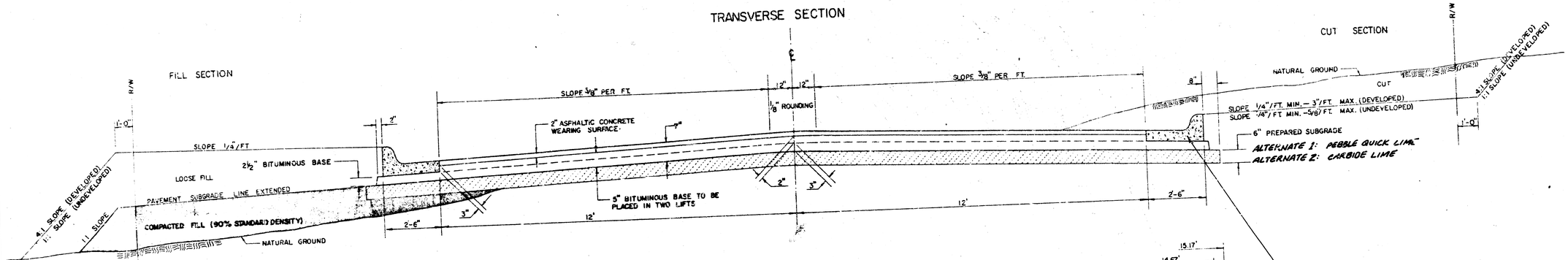
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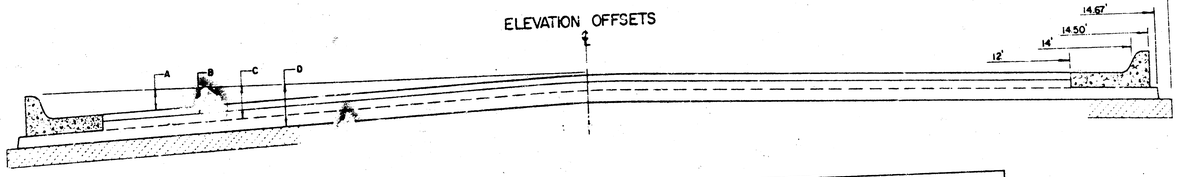
TYPICAL 29' PAVEMENT DETAILS

MAY & MAY COURT

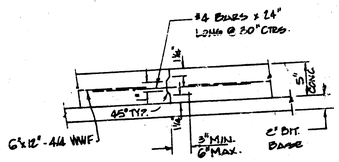
TRANSVERSE SECTION



ELEVATION OFFSETS



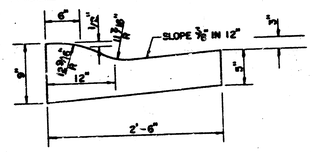
Note - Roll Type Combined Curb and Gutter is to be constructed on May and May Court in the place of the Standard height Curb and Gutter section indicated here, except at the intersections. Standard height Monolithic Curb is to be constructed at the intersections.

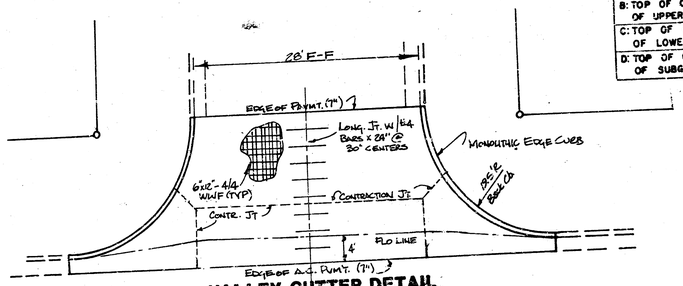


LONGITUDINAL CONSTRUCTION JOINT FOR CONCRETE VALLEY GUTTER

	DISTANCE FROM CENTERLINE (LT. & RT.)											
	0'	2'	4'	6'	7'	8'	10'	12'	14'	14.5'	14.67'	15.17'
A: TOP OF CURBS TO TOP OF SURFACE LIFT	0.13	0.16	0.24	0.30	0.33	0.36	0.43	0.49	—	—	—	—
B: TOP OF CURBS TO TOP OF UPPER BASE LIFT	0.30	0.35	0.41	0.47	0.50	0.53	0.60	0.66	—	—	—	—
C: TOP OF CURBS TO TOP OF LOWER BASE LIFT	0.47	0.52	0.60	0.68	0.71	0.75	0.83	0.90	0.98	1.00	1.01	—
D: TOP OF CURBS TO TOP OF SUBGRADE	0.72	0.77	0.84	0.91	0.94	0.98	1.05	1.12	1.19	1.21	1.21	1.23

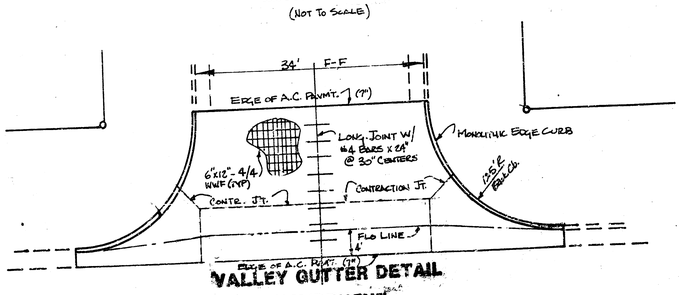
ROLL TYPE COMBINED CURB & GUTTER





VALLEY GUTTER DETAIL MAY/MAY CT.

(NOT TO SCALE)

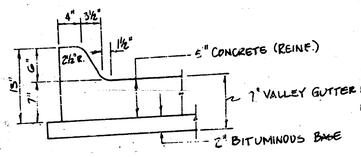


VALLEY GUTTER DETAIL MAY/DENENE

(NOT TO SCALE)

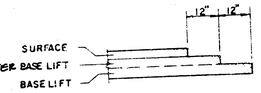
GENERAL NOTES

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.

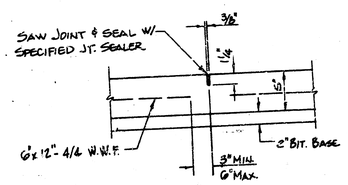


MONOLITHIC CURB

TRANSVERSE CONSTRUCTION JOINTS



TRANSVERSE CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN FLEXIBLE BASE PAVEMENTS AT LOCATIONS WHERE PAVEMENT TEMPORARILY ENDS AS SHOWN BY THE DETAIL. THE COST OF CONSTRUCTION JOINTS SHALL BE INCLUDED IN THE BID PRICE FOR SQUARE YARDS 7" ASPHALTIC CONCRETE (5" BITUMINOUS BASE).



CONTRACTION JOINT FOR CONCRETE VALLEY GUTTER

7 INCH RESIDENTIAL ASPHALTIC CONCRETE PAVEMENT WITH 5 INCH BITUMINOUS BASE

CITY OF WICHITA, KANSAS

PROJECT NUMBER

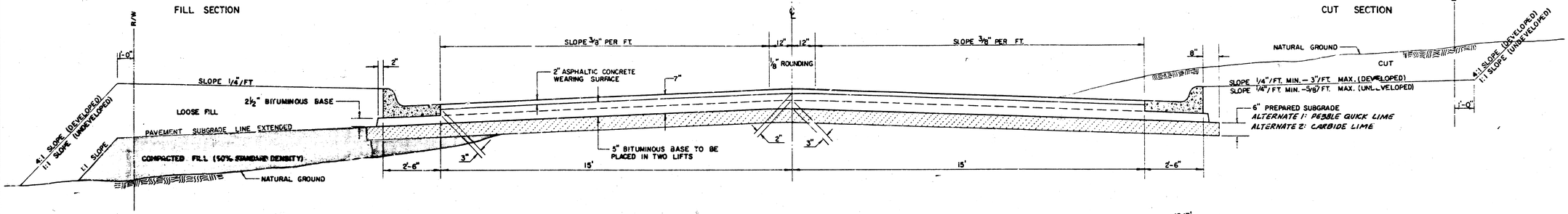
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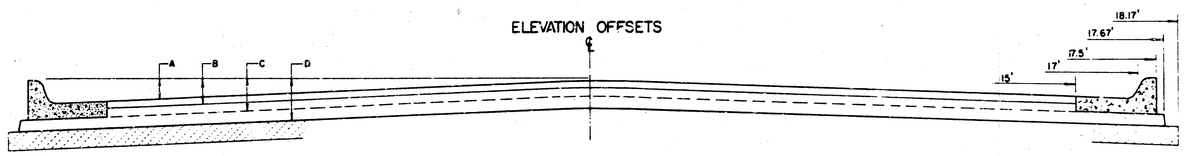
TYPICAL 35' PAVEMENT DETAILS

DENENE

TRANSVERSE SECTION

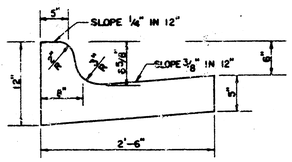


ELEVATION OFFSETS



	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.

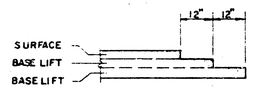
3) A TACK COAT OF EMULSIFIED ASPHALT (SC-1H OR CSS-1H) SHALL BE APPLIED AT AN APPROXIMATE RATE OF 0.05 GALLONS PER SQUARE YARD BETWEEN EACH LIFT OF ASPHALTIC MATERIAL.

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 JOINS 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

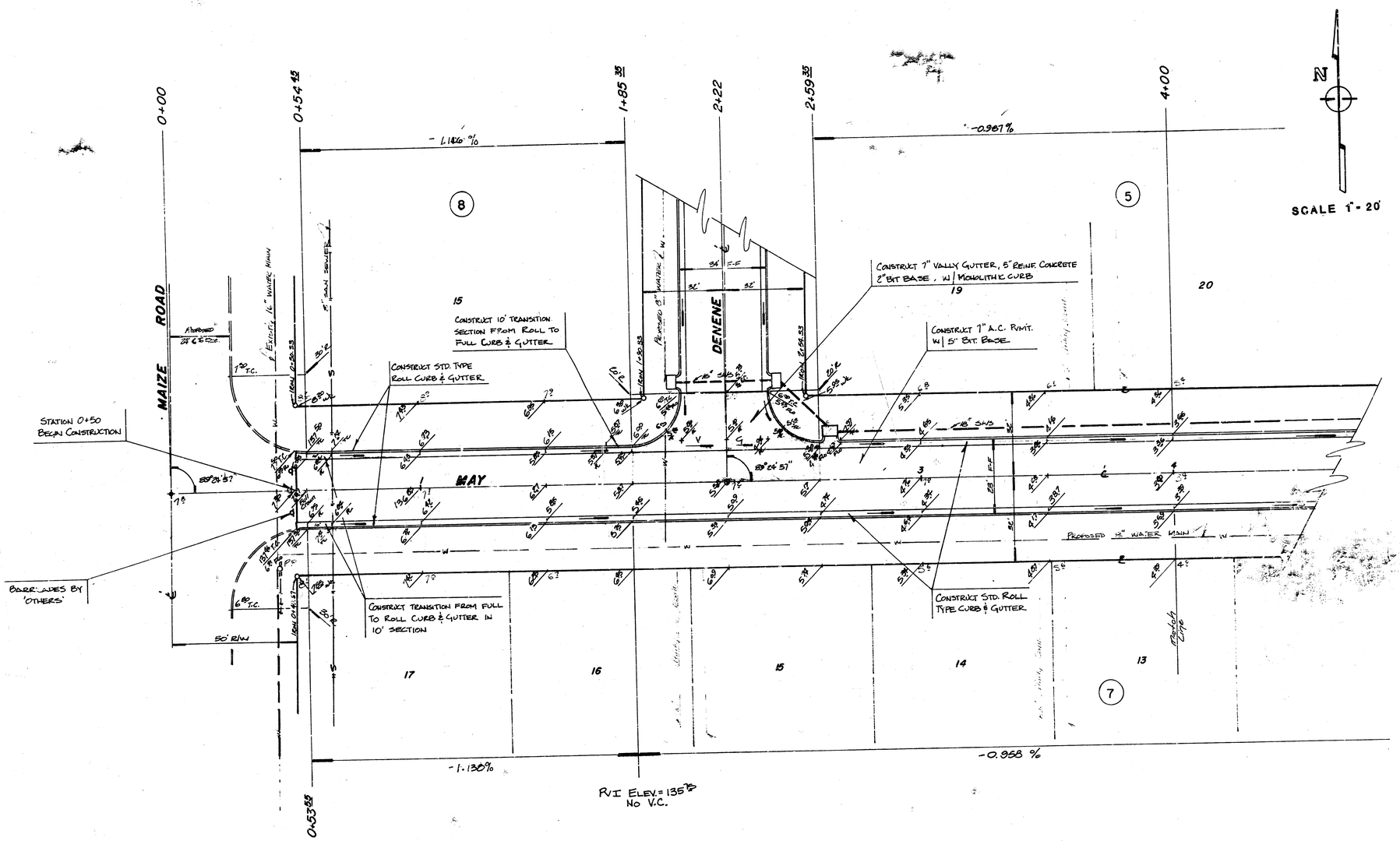
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3/15

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BENCH MARK: CITY DISC, CENTER OF MEDIAL STRIP ON U.S. 54 & 40' ENE. OF ℄ MAIZE RD. ELEV.= 1136.97 CITY DATUM

R.R. SPIKE IN NE SIDE OF POWER POLE, 20' N. OF SW CORNER LOT 15, BLOCK B PRAIRIE PARK 2ND. ADDN. ELEV= 1066 CITY DATUM



SYMBOLS

- W —— Indicates Water lines proposed
- S —— Indicates Sanitary Sewer Lines
- —— Indicates Storm Sewer Lines
- Indicates Irons
- Indicates Lot Lines
- Indicates Tree Row & Fence Removal

EARTHWORK QUANTITIES

EXCAVATION	= 3564.8 CY	COMPACTED FILL	= 21.6 CY
+ 10 %	= 356.5 CY	+ 10 %	= 2.2 CY
TOTAL	= 3921.3 CY	TOTAL	= 23.8 CY

SUBGRADE MANIPULATION = 4296 SY

INTERSECTION QUANTITIES

- ___ S.Y. ___" Concrete Pavement
- 321 S.Y. 7 " Asphaltic Conc. Pavement (5 " Bituminous Base)
- ___ S.Y. ___" Bituminous Base
- ___ L.F. Combined Curb & Gutter
- 66.6 L.F. Monolithic Edge Curb
- ___ S.F. 4" Wheelchair Ramp
- ___ S.F. 4" Walk
- ___ C.Y. Excavation
- ___ C.Y. Compacted Fill
- 21.7 S.Y. Menipulation
- ___ Tons Lime or Cement
- 44.5 S.Y. V.G. 5 " Concrete & 2 " Asphaltic Concrete Base

N. BRENT WOOLEN LICENSED 8470 KANSAS PROFESSIONAL ENGINEER

MAY

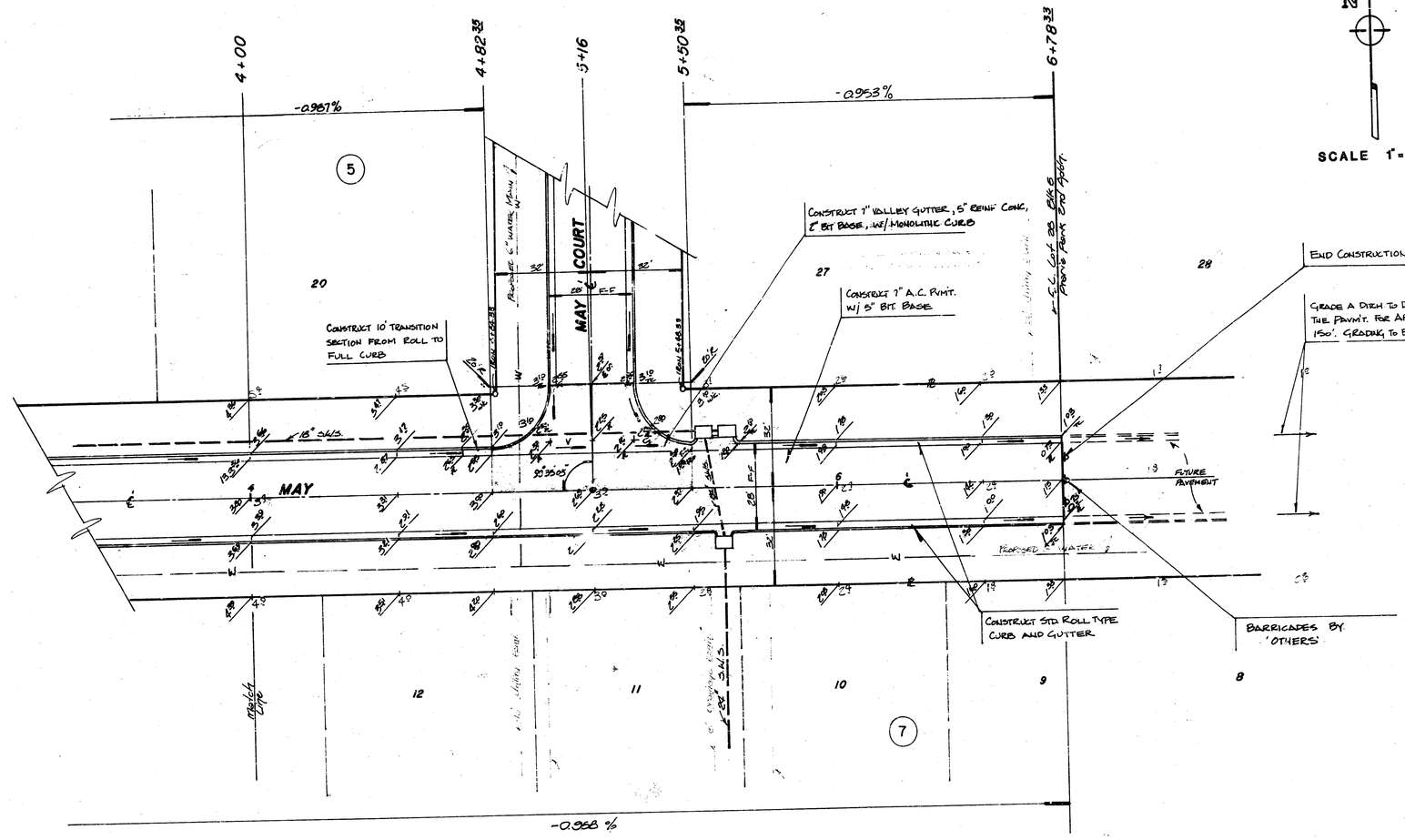
PROJ. NO. 472-73-245-81054-000-000-001

4/15

4/15

BENCH MARK: CITY DISC, CENTER OF MEDIAL STRIP ON U.S. 54 & 40' ENE OF E. MAIRE RD. ELEV. = 136.97 CITY DATUM

R.R. SPIKE IN N.E. SIDE OF POWER POLE, 80' N. OF S.W. CORNER LOT 15, BLOCK 8, PRAIRIE PARK 2ND ADDN. ELEV= 1096.5 CITY DATUM



INTERSECTION QUANTITIES

___	S.Y. ____" Concrete Pavement
90.7	S.Y. 7 " Asphaltic Conc. Pavement (5 " Bituminous Base)
___	S.Y. ____" Bituminous Base
___	L.F. Combined Curb & Gutter
620	L.F. Monolithic Edge Curb
___	S.F. 4" Wheelchair Ramp
___	S.F. 4" Walk
___	C.Y. Excavation
___	C.Y. Compacted Fill
___	Lbs. Reinforcing Steel
85.6	S.Y. Manipulation
___	Tons Lime or Cement
90.7	S.Y. V.G. 12 " Concrete & 2 " Asphaltic Concrete Base

MAY

5/15

5/15

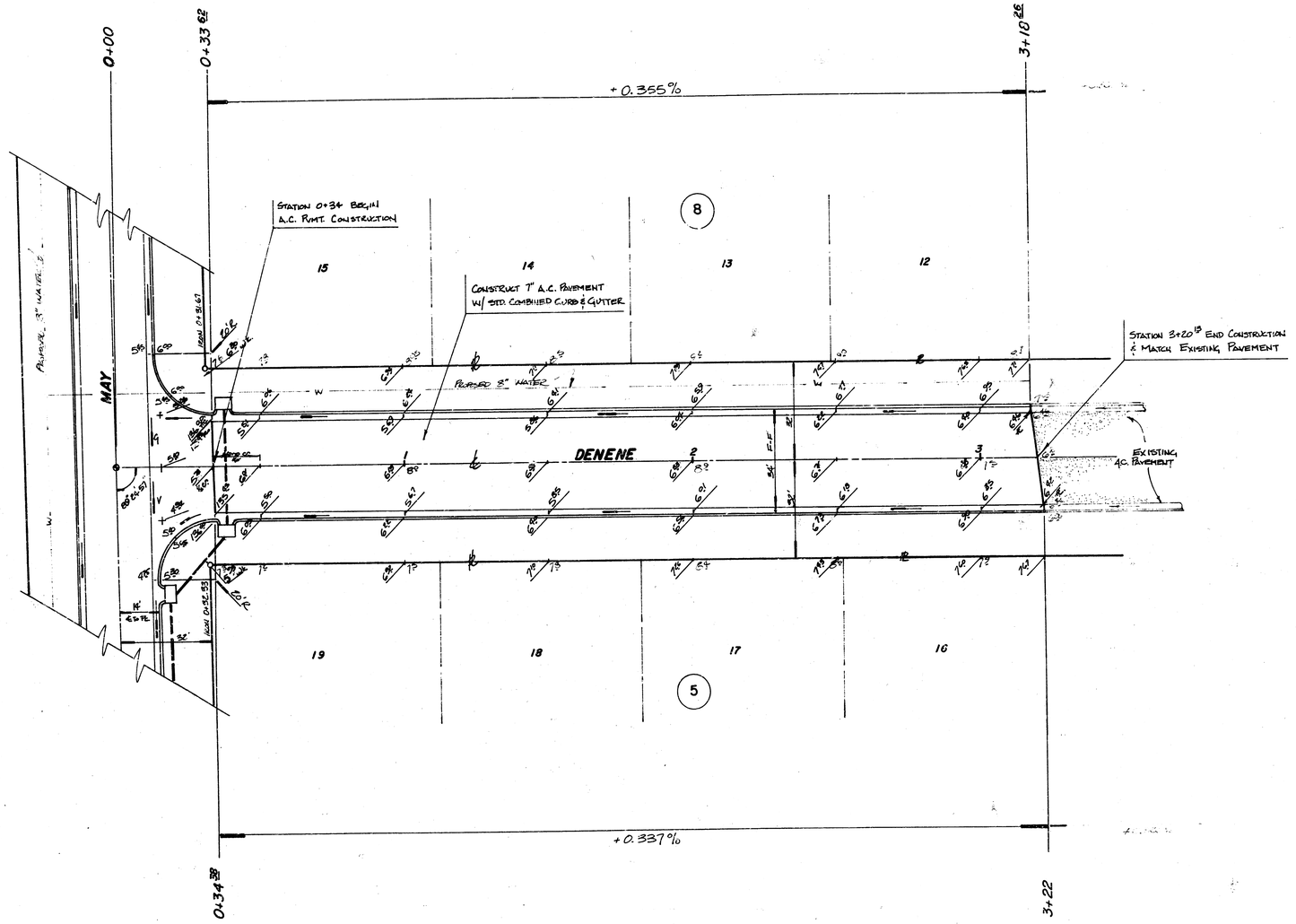
PROJ. NO. 472-76-245-81054-000-000-001

BENCH MARK: CITY DISC, CENTER OF MEDIAL STRIP ON U.S. 54 & 40' ENE OF ℄ MAIZE RD. ELEV = 136.97 CITY DATUM

R.R. SPIKE IN N.E. SIDE POWER POLE, 80' N. OF SW CORNER LOT 15, BLOCK 8 PRAIRIE PARK 2ND ADDN. ELEV = 140.65 CITY DATUM

N

SCALE 1" = 20'



DENENE

PROJ. NO. 472-76-245-81054-000-000-001

6/15

6/15

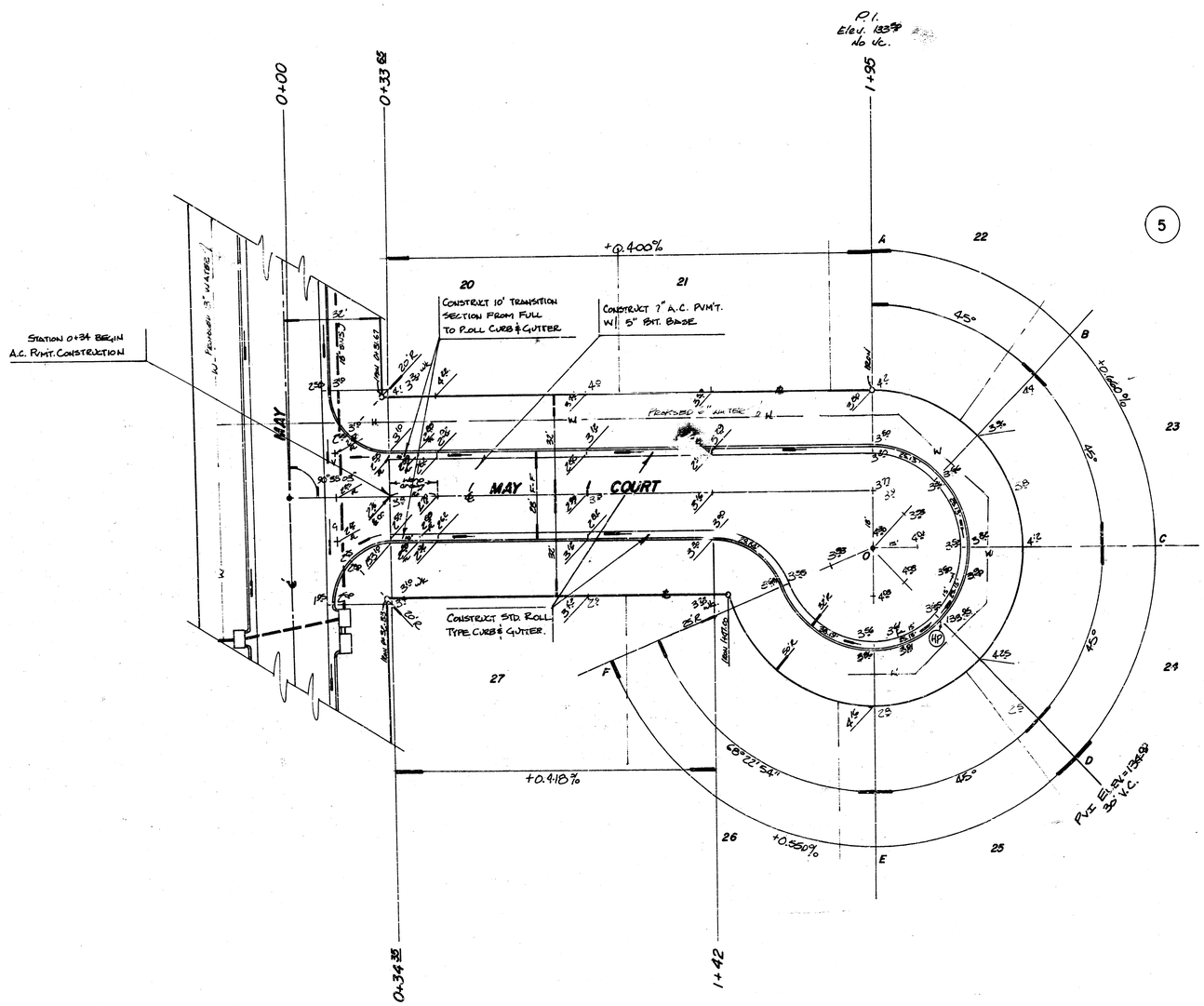
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BENCH MARK : CITY DISC, CENTER OF MEDIAL STRIP ON U.S. 54 & 40' ENE OF ℄ MAIZE ROAD ELEV.= 136.97 CITY DATUM

R.R. SPIKE IN N.E SIDE OF POWER POLE, 80' N. OF SW CORNER LOT 15, BLK 8 PRAIRIE PARK 2ND ADDN. ELEV= 140.65 CITY DATUM.

N

SCALE 1" = 20'



5

MAY CT.

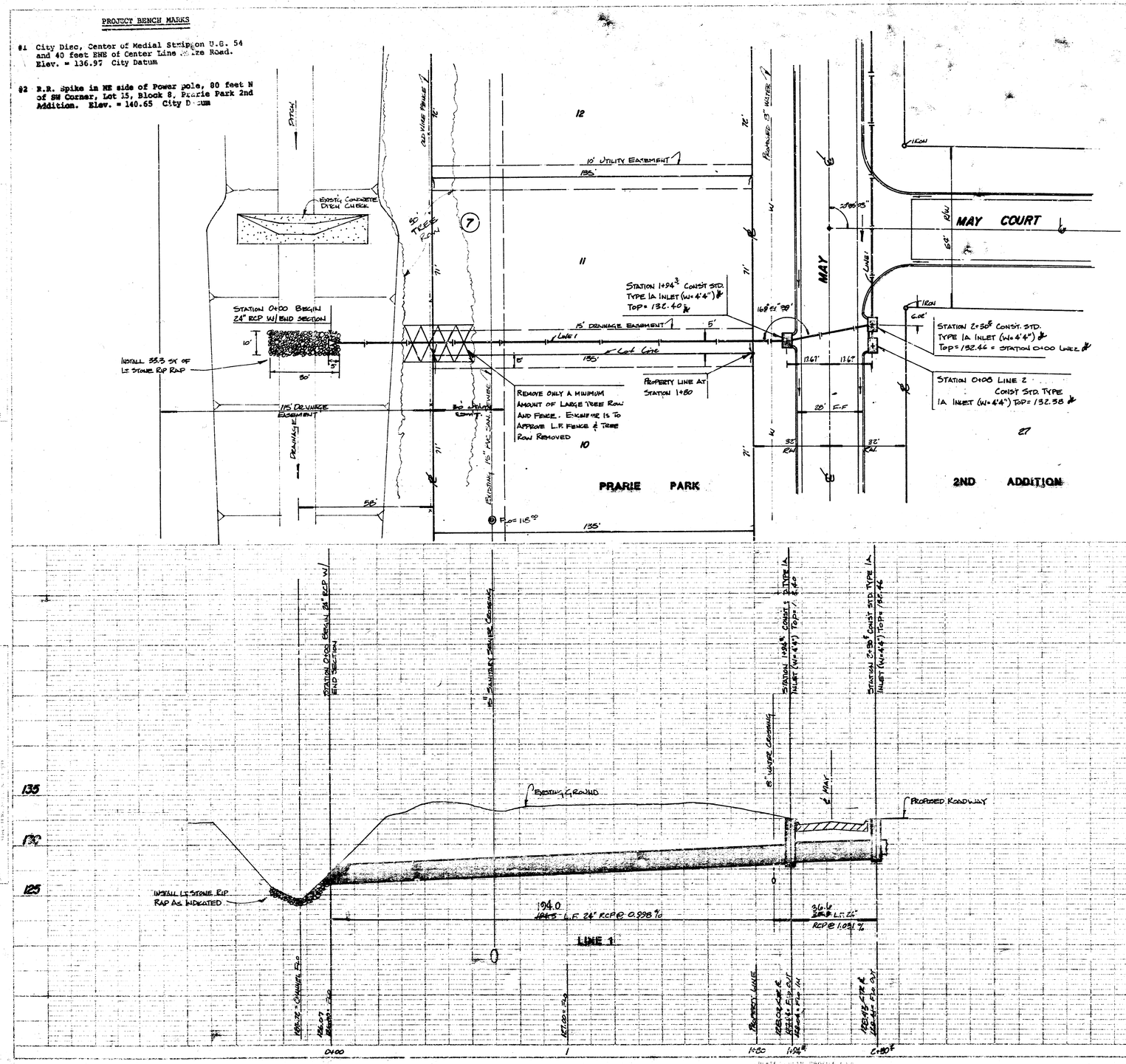
PROJ. NO. 472-76-245-81054-000-000+001

1/15

PROJECT BENCH MARKS

#1 City Disc, Center of Medial Strip on U.S. 54 and 40 feet ENE of Center Line of Maize Road. Elev. = 136.97 City Datum

#2 R.R. Spike in NE side of Power pole, 80 feet N of SW Corner, Lot 15, Block 8, Prairie Park 2nd Addition. Elev. = 140.65 City Datum



N

SCALE 1" = 20' HORIZ
1" = 5' VERT

As Built 5-23-85 GREENG.

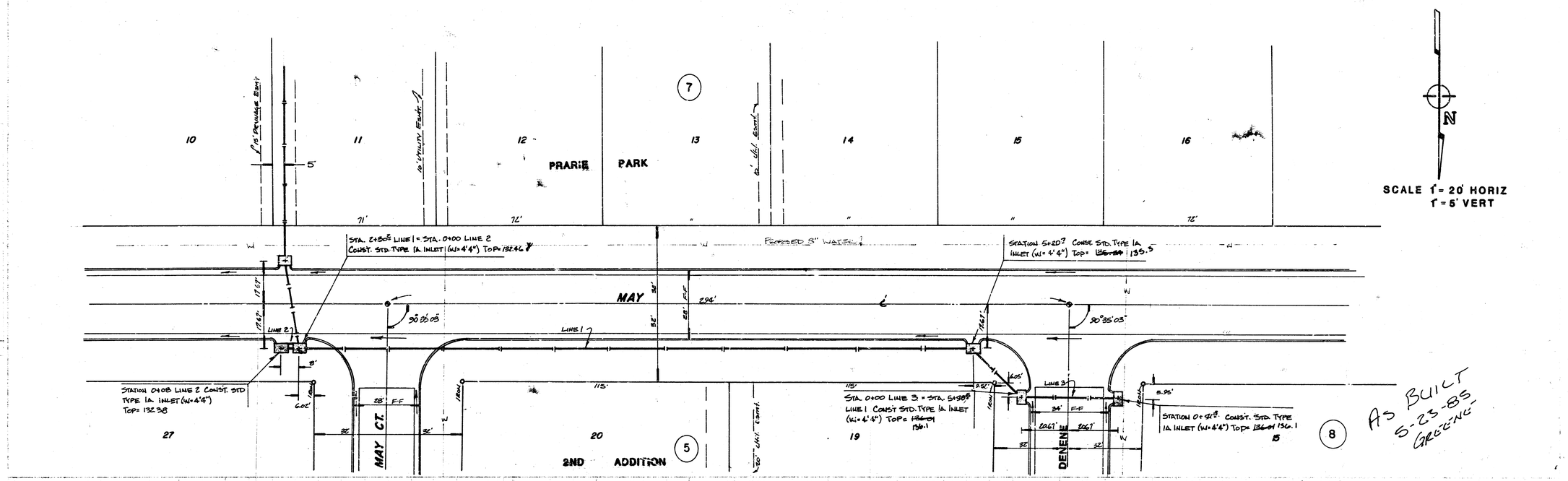
INCIDENTAL DRAINAGE FOR STREETS IN PRARIE PARK 2nd ADDITION

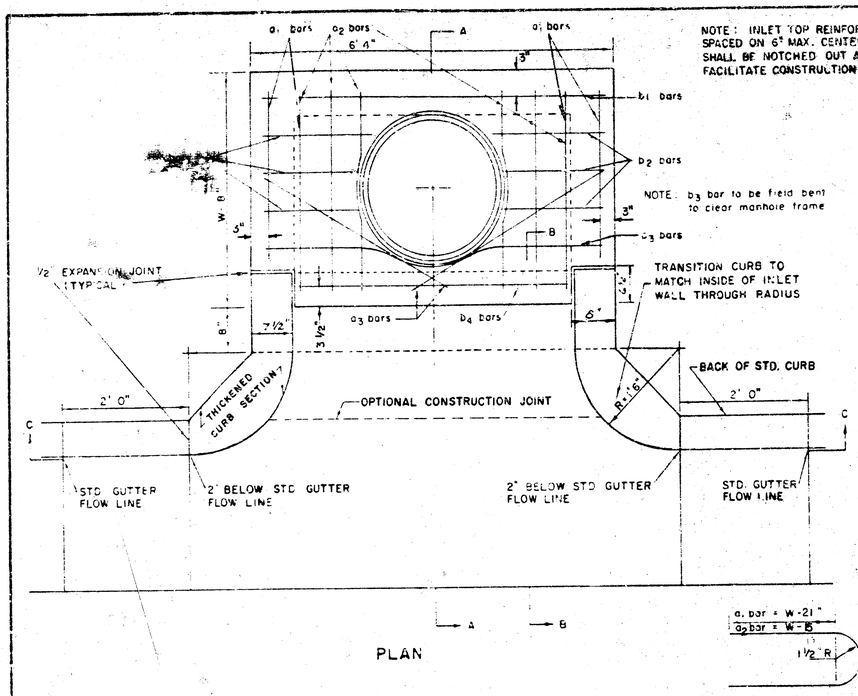
PROJ. NO. 472-78-245-81064-000-000-001

BAUGHMAN COMPANY, P.A.
SURVEYING & ENGINEERING
316/262-7271 • 330 LAUR • WICHITA, KANSAS 67211

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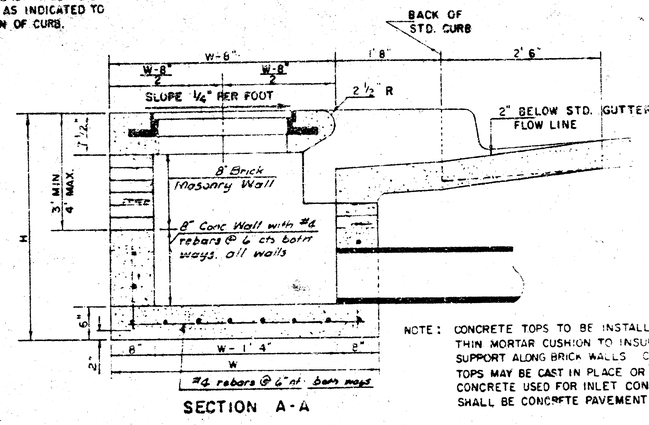

10
11
12
13
14
15
16
7
PRARIE
PARK
10' PRIVATE ESMT.
10' UTILITY ESMT.
10' UTIL. ESMT.
5'
71'
72'
"
72'
STA. 2+30.5 LINE 1 = STA. 0+00 LINE 2
CONST. STD. TYPE 1A INLET (W= 4'4") TOP= 132.46
PROPOSED 8" WATER
STATION 5+20.7 CONST. STD. TYPE 1A INLET (W= 4'4") TOP= 135.5
MAY
594'
30°35'05"
90°35'05"
LINE 2
LINE 1
LINE 3
STATION 0+08 LINE 2 CONST. STD TYPE 1A INLET (W=4'4") TOP= 132.38
STA. 0+00 LINE 3 = STA. 5+98.8 LINE 1 CONST STD. TYPE 1A INLET (W= 4'4") TOP= 136.1
STATION 0+41.8 CONST. STD. TYPE 1A INLET (W= 4'4") TOP= 136.0 136.1
MAY CT.
28' F-F
DENENE
24' F-F
27
20
19
15
5
8
2ND ADDITION
N
SCALE 1" = 20' HORIZ
1" = 5' VERT
AS BUILT 5-23-85 GREENE
135
130
125
EXISTING GROUND
PROPOSED TOP OF CURB
SAME INLET
4 @ 1.F. 15" RCP @ 1.250%
290.7
229.5 L.F. 18" RCP @ 0.439%
27.8
28.2 L.F. 15" RCP @ 1.00%
42.3
41.3 L.F. 15" RCP @ 0.882%
LINE 2
LINE 1
LINE 3
0+00
2
2+30.5
3
4
5
5+20.7
5+49.8
0
+41.8
INCIDENTAL DRAINAGE FOR STREETS IN PRARIE PARK 2ND ADDITION
PROJ. NO. 472-76-248-61064-000-000-001
9/16
9/15



PLAN

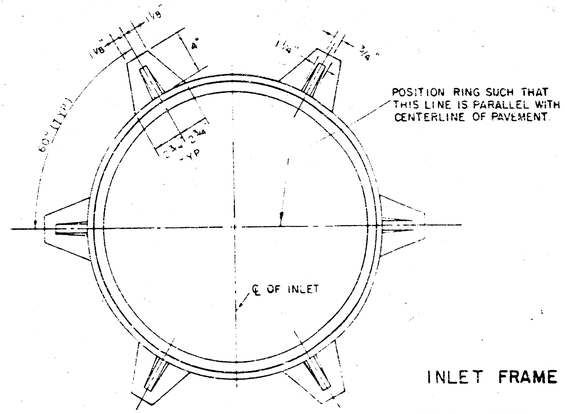
NOTE: INLET TOP REINFORCING SHALL BE SPACED ON 6" MAX. CENTERS. INLET LIDS SHALL BE NOTCHED OUT AS INDICATED TO FACILITATE CONSTRUCTION OF CURB.

NOTE: b_3 bar to be field bent to clear manhole frame



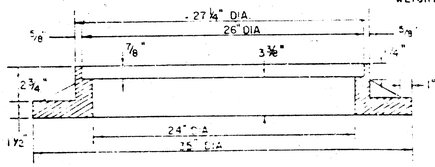
SECTION A-A

NOTE: CONCRETE TOPS TO BE INSTALLED ON THIN MORTAR CUSHION TO INSURE FULL SUPPORT ALONG BRICK WALLS. CONCRETE TOPS MAY BE CAST IN PLACE OR PRECAST. CONCRETE USED FOR INLET CONSTRUCTION SHALL BE CONCRETE PAVEMENT MIX.



INLET FRAME

WEIGHT = 180 LBS.



SEE CITY OF WICHITA STANDARD MANHOLE FRAME AND COVER DETAIL SHEET FOR COVER DETAILS TO BE USED WITH INLET FRAME.

BENDING DIAGRAM

STEEL SCHEDULE

BAR	a_1	a_2	a_3 *	LENGTH W=4'4"	W=5'4"	W=6'4"	W=7'4"	W=8'4"	b_2	b_3	b_4	WT LBS
NUMBER	4	4	2	-	1	5	7	9	6			
SIZE	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#6	
W=4'4"	5'7"	6'7"	4'0"	6'1"	-	-	-	-	1'9"	6'2"	4'8"	60±
W=5'4"	7'7"	8'7"	5'0"	-	6'1"	-	-	-	1'9"	6'2"	4'8"	81±
W=6'4"	9'7"	10'7"	6'0"	-	-	6'1"	-	-	1'9"	6'2"	4'8"	101±
W=7'4"	11'7"	12'7"	7'0"	-	-	-	6'1"	-	1'9"	6'2"	4'8"	121±
W=8'4"	13'7"	14'7"	8'0"	-	-	-	-	6'1"	1'9"	6'2"	4'8"	141±

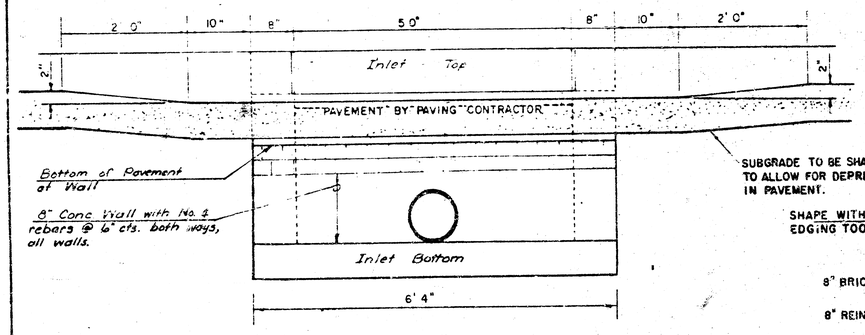
* NOTE: a_3 BARS TO BE PLACED APPROX 2" BELOW TOP OF INLET COVER

CURB INLET PRECAST TOPS			
[illegible]	[illegible]	PIPE SIZE	CU YD CONC
[illegible]	[illegible]	8 SMALLER	0.38 ±
[illegible]	[illegible]	24" & 30"	0.51 ±
6'4"	7 1/2"	25" & 42"	0.64 ±
7'4"	8'4"	6'4" 7 1/2"	48" & 54"	0.77 ±
8'4"	9'4"	6'4" 7 1/2"	60" & 66"	0.90 ±

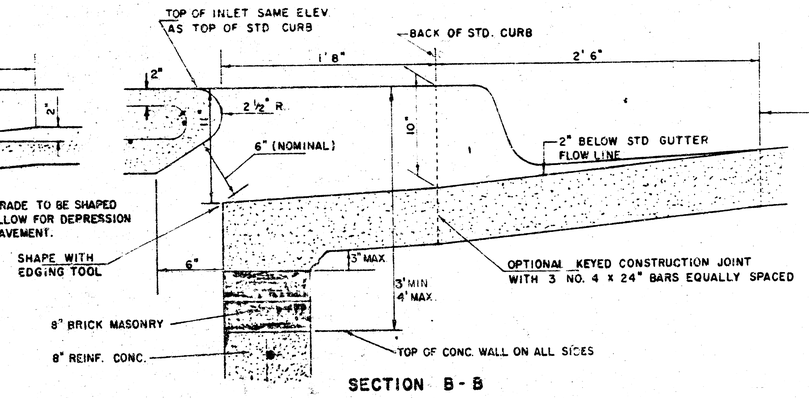
NOTE: CONTRACTOR SHALL HAVE THE OPTION OF CONSTRUCTING 8" BRICK MASONRY WALLS BETWEEN THE CONCRETE INLET BASE AND TOP ON THIS INLET WHEN W = 4'4" AND H = 6'0" OR LESS.

ADDITIONAL CURB AND GUTTER CONSTRUCTION NECESSARY TO CONNECT SET-BACK INLET TO PAVEMENT WILL BE PAID FOR AT THE UNIT PRICE BID FOR EACH INLET HOOKUP.

INLET INVERT SHALL BE SHAPED WITH 8 SACK SAND MIX CONCRETE TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE INLET WILL BE SELF CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.



SECTION C-C



SECTION B-B

DETAIL STANDARD TYPE IA CURB INLET

CITY OF WICHITA, KANSAS

INLET OPENING = 6" × 5'0"

JUNE 1984

10/15

246.30 CY EXC

C = 12±

195

3+00

190

151.5CY EXC

40±

C 11.2

195

2+59 ±

190

155.8CY EXC

31 ±3.5

C = 16±

195

2+22

190

172.4 CY EXC

36.65

C = 10.6±

195

1+85 ±

190

125.7 CY EXC

35 35

C = 8.6±

195

1+50

190

138.9 CY EXC

50±

C = 6.4±

195

1+00

CY

190

117 CY EXC

50±

C = 0.8

195

0+50

CY

190

℄ EXISTING MINE ROAD: (BEG. CONST. @ STA. 0+30)

195

0+00

190

MAY

EXC = 1103.6 CY

EARTHWORK X-SECS
MAY ST.

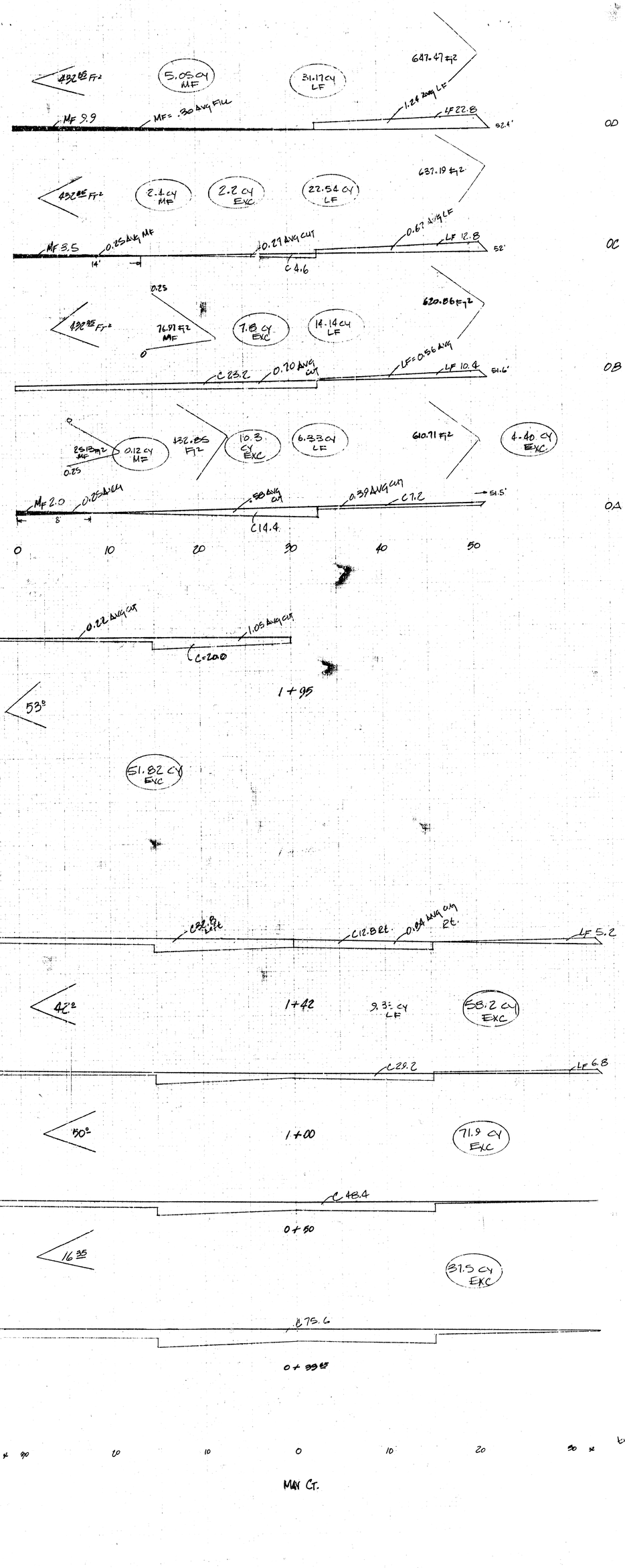
30 20 15 10 0 10 15 20 30 33

EXCAVATION = 3564.8 CY

51/11

FILMED FROM THE BEST

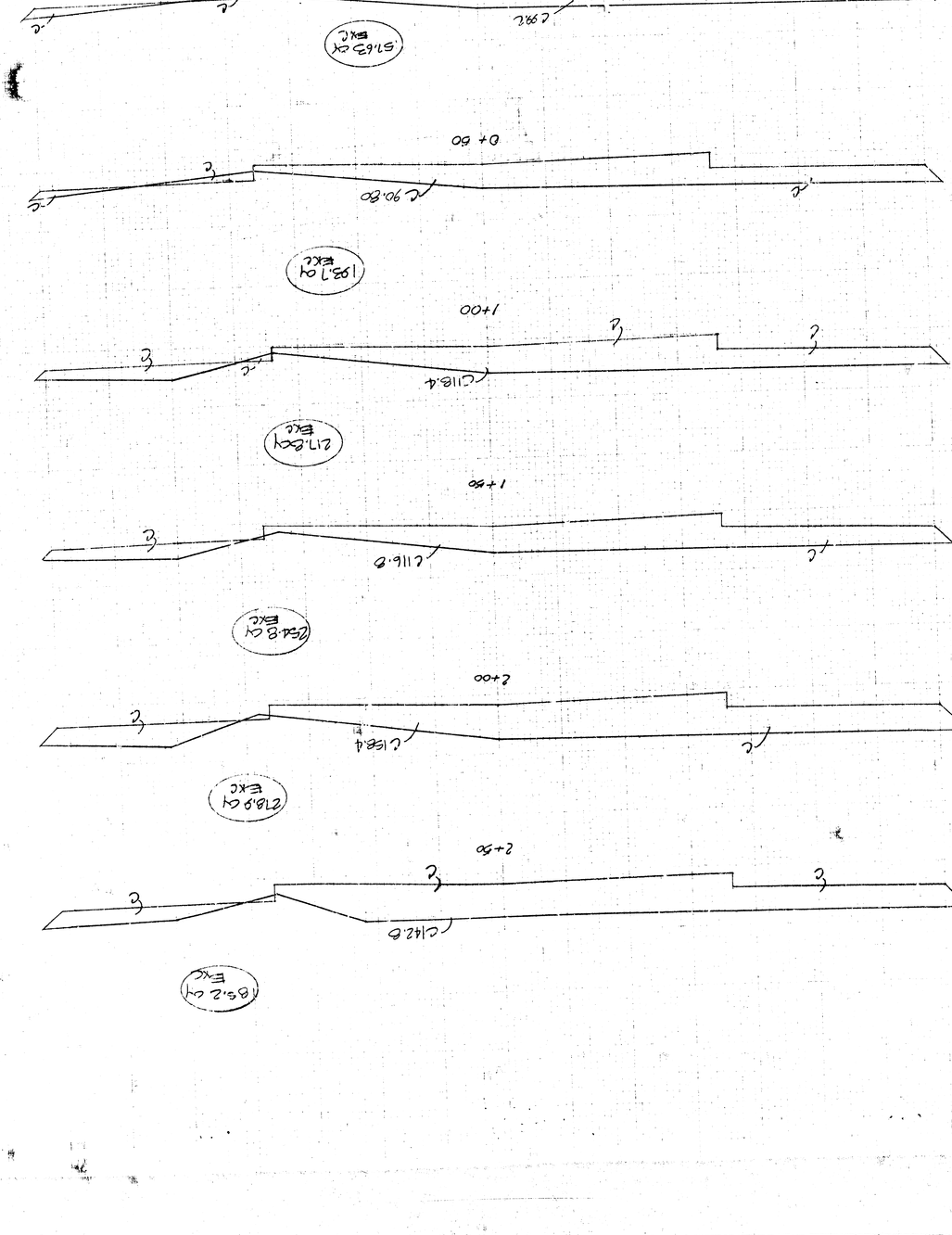
EARTHWORK X-SECS
MAX ST.
12/15
12/16
FILMED FROM THE BEST
MAY
exc. = 9163 cy
L=80'
5+16
92RT
99.7 CY EXC
L=92'
4+825
92RT
103.04 CY EXC
L=92'
4+50
50'
137.04 CY EXC
L=96'
4+00
50'
183.3 CY EXC
L=112'
3+50
50'
L=92'
5+50RT
94RT
26.7 CY EXC
L=88'
4+75
88 RT
L=88.8 Lt
L=88.2 Lt
5+50
50
128.9 CY EXC
L=72'
6+00
49 RT
132.4 CY EXC
L=92'
5+50RT
94RT
L=80'
5+16
92RT
L69'
5+78.33
77.44 CY EXC



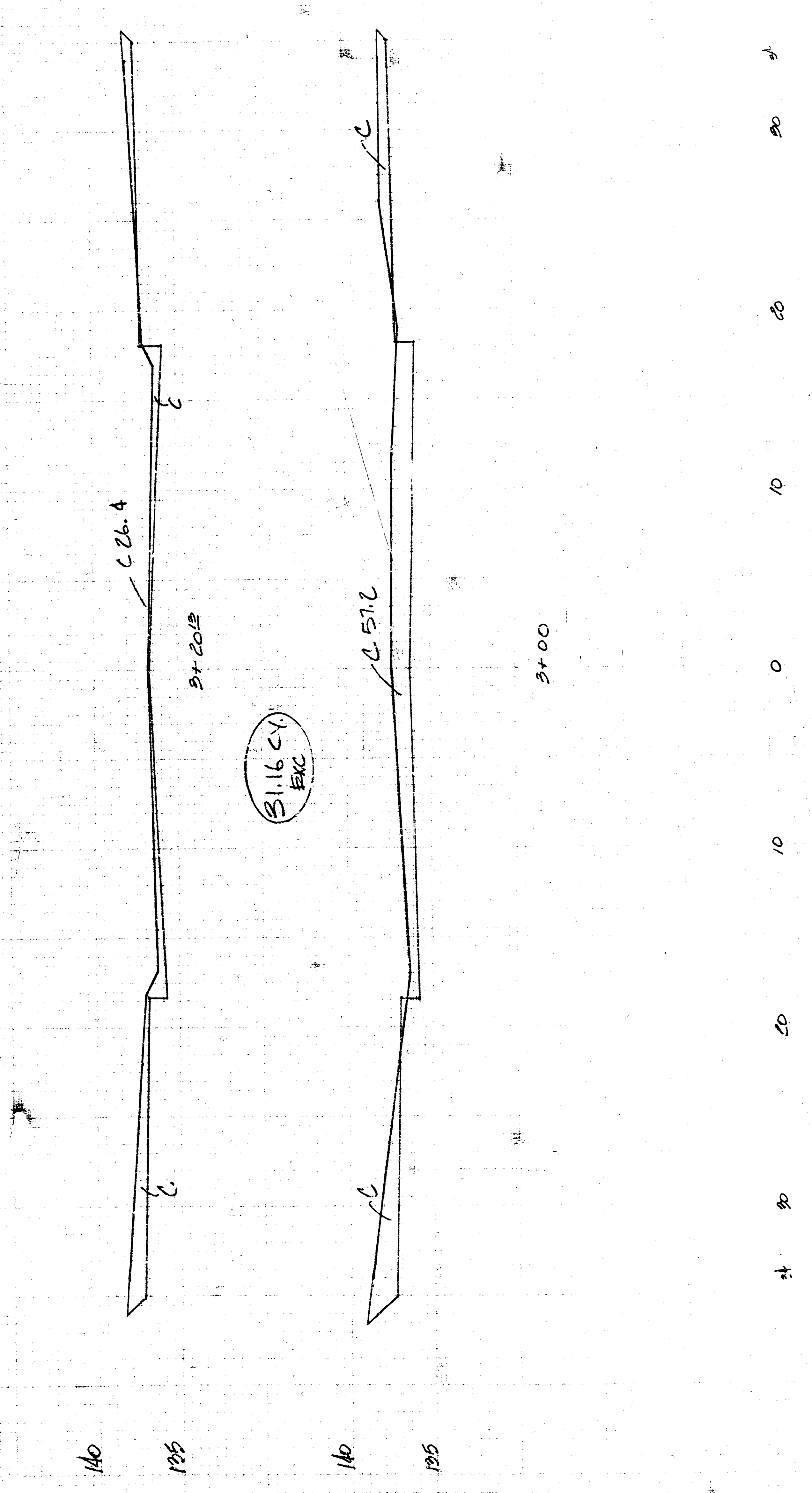
EARTHWORK SHEET
MAY CT.

13/15

EARTHWORK SECT.
MAY CT. / DENSNE



EXC 31.2 CY



CLEARPRINT PAPER CO.
MADE IN U.S.A.

15/15

EARTHWORK SECS

DENENE

15/16

16 8 3 8