

STREET IMPROVEMENTS

FOR

NORTHWEST PARKWAY

From the Westerly Line of Northwest Parkway Ct. and the Easterly corner of Lot 23, Blk. 13, to the Westerly Line of Holland Ln.

HOLLAND LANE

From the North Line of 17th Street No. to the Southerly corner of Lot 19, Block 13, Westwood Heights Second Addn. and the Southerly Line of Emerson.

NORTHWEST PARKWAY COURT

From the Northerly Line of Northwest Parkway to and including Out of use, serving lots 11 through 21 inclusive, Blk. 11 Westwood Heights Second Addn.

PROJECT NUMBER

472-76-245-81640-000-000-001

CITY of WICHITA, KANSAS

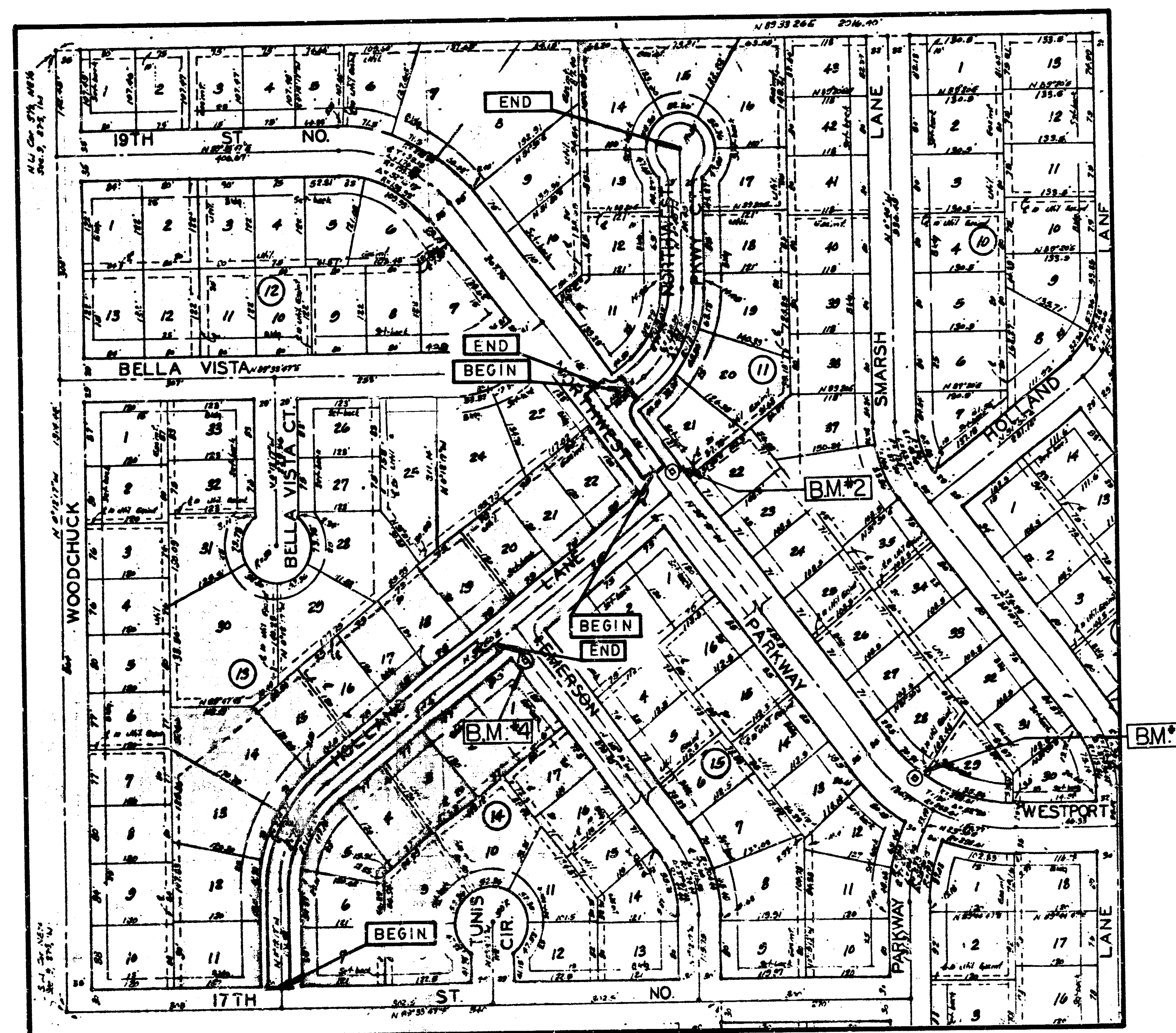
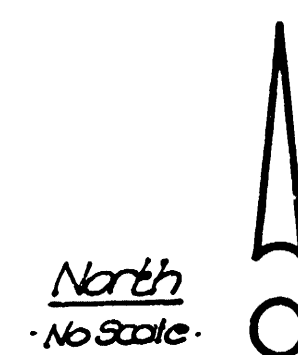
MICHAEL E. LINDEBAK
CITY ENGINEER

GENERAL NOTES

1. The contractor shall be responsible for preserving property irons. The contractor will 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 licensed professional engineer in accordance with state laws.
2. No more than 5 drives, 20 feet in width, or the equivalent combinations thereof, are to be constructed with this project.
3. Bell-type combined curb & gutter is to be constructed on Northwest Parkway Court.
4. Ditching is to be performed on Northwest Parkway to drain the streets to existing inlets. Cost of the ditching is to be incidental to the project.
5. Contractor shall contact the utility companies for location of any underground lines in the area prior to beginning construction of the streets.

BENCHMARKS

1. City Disc. 42' no. and 38.5' east of 14.500 cor.; intersection of Ridge Road at 17th Street No.
Elev. = 142.61 city datum
2. 1' 0" cut in top of curb east side 22' north of intersection Holland Ln. at Northwest Parkway; on Northwest Parkway.
Elev. = 156.47 city datum
3. 1/2' cut in top of cb. approx. 30' West of E. Westport & Northwest Parkway intersection on North side of street.
Elev. = 164.82 city datum
4. 1/4' cut in top cb. at end of return West side Emerson; intersection Emerson at Holland Lane.
Elev. = 156.84 city datum.



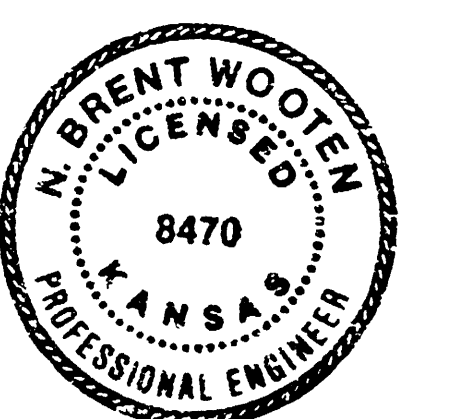
WESTWOOD HEIGHTS SECOND ADDITION

☐ BENEFIT DISTRICT

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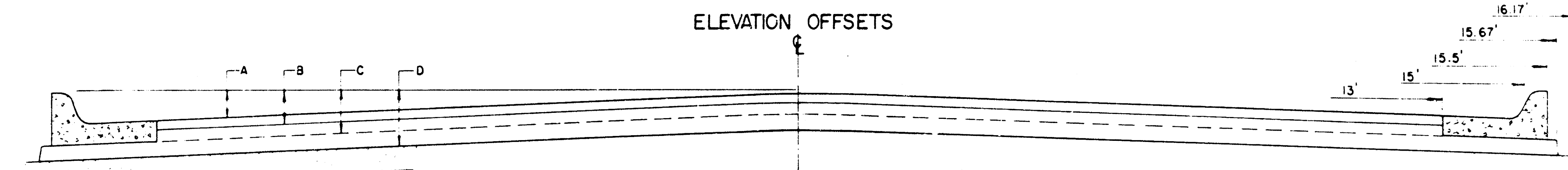
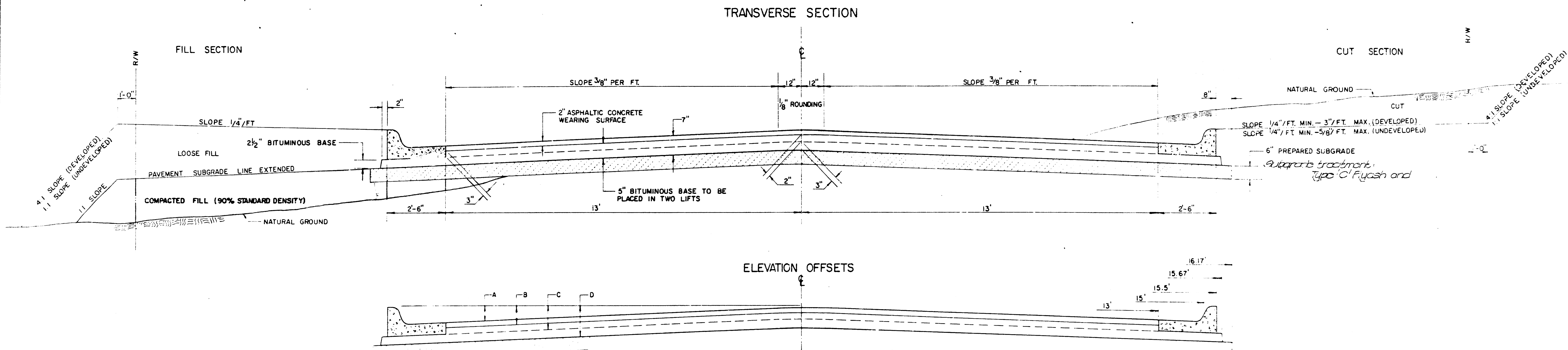
TITLE SHEET



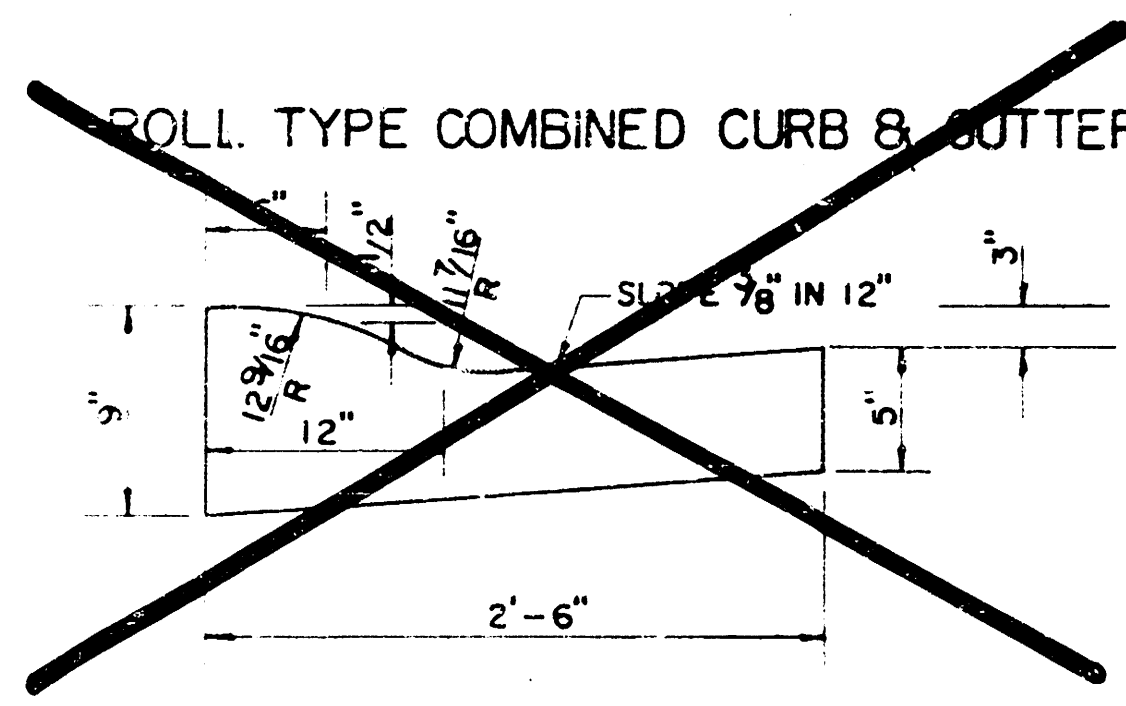
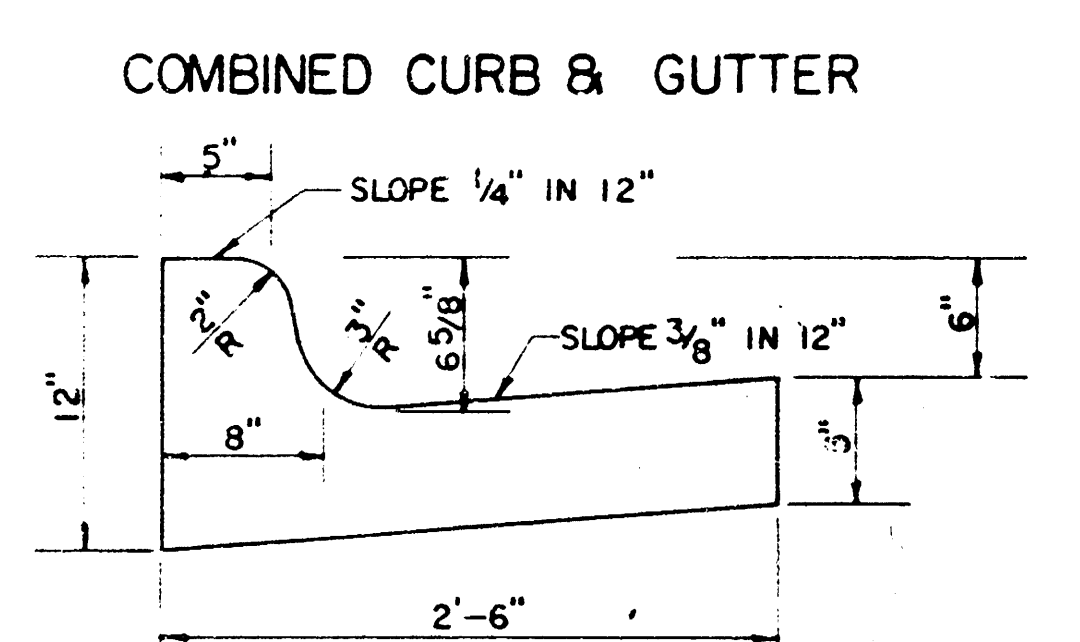
B. BAUGHMAN COMPANY, P.A.					
SURVEYING & ENGINEERING					
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211					
Drawn	Check	Approved	Date	Scale	Sheet
N.B. Wooten	Seal Jr.	BW	April, 57		14

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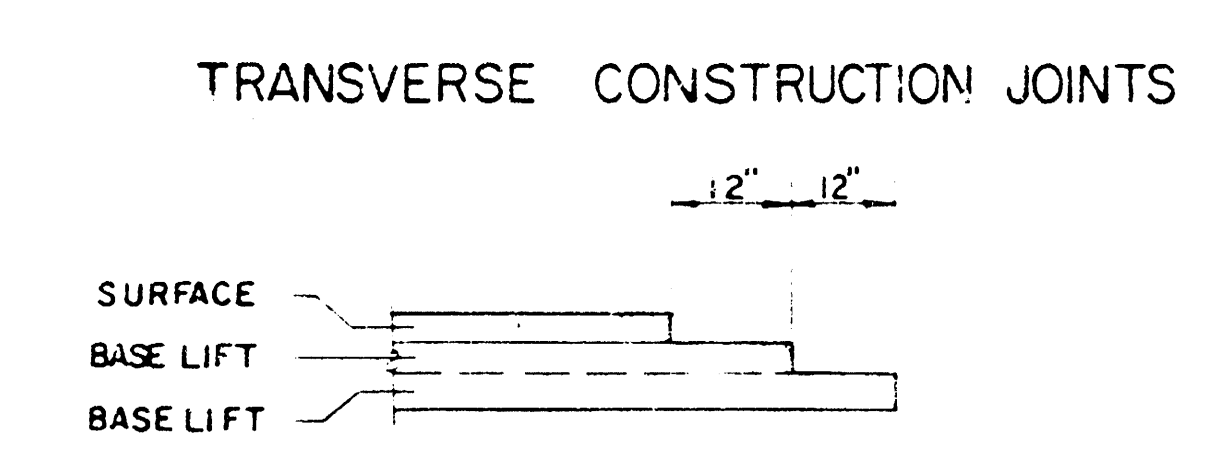
TYPICAL 3' PAVEMENT DETAILS



	DISTANCE FROM CENTERLINE (LT. & RT.)											
	0'	2'	4'	6'	7.5'	10'	12'	13'	15'	15.5'	15.67'	16.17'
A. TOP OF CURBS TO TOP OF SURFACE LIFT	0.10	0.14	0.21	0.27	0.32	0.39	0.46	0.49	—	—	—	—
B. TOP OF CURBS TO TOP OF UPPER BASE LIFT	0.27	0.31	0.38	0.44	0.49	0.56	0.63	0.66	—	—	—	—
C. TOP OF CURBS TO TOP OF LOWER BASE LIFT	0.44	0.49	0.57	0.64	0.70	0.79	0.87	0.90	0.98	1.00	1.00	—
D. TOP OF CURBS TO TOP OF SUBGRADE	0.69	0.73	0.80	0.87	0.93	1.01	1.08	1.12	1.19	1.21	1.21	1.23



- 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.

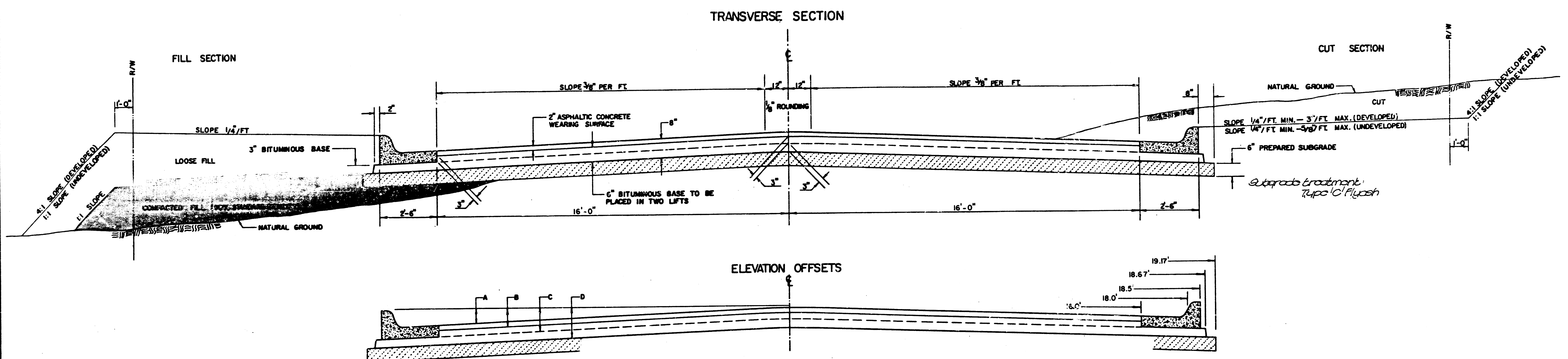


SHEET 2 OF 14
 7 INCH RESIDENTIAL ASPHALTIC CONCRETE
 PAVEMENT WITH 5 INCH BITUMINOUS BASE
 CITY OF WICHITA, KANSAS
 472-76-245-81640-000-000-001

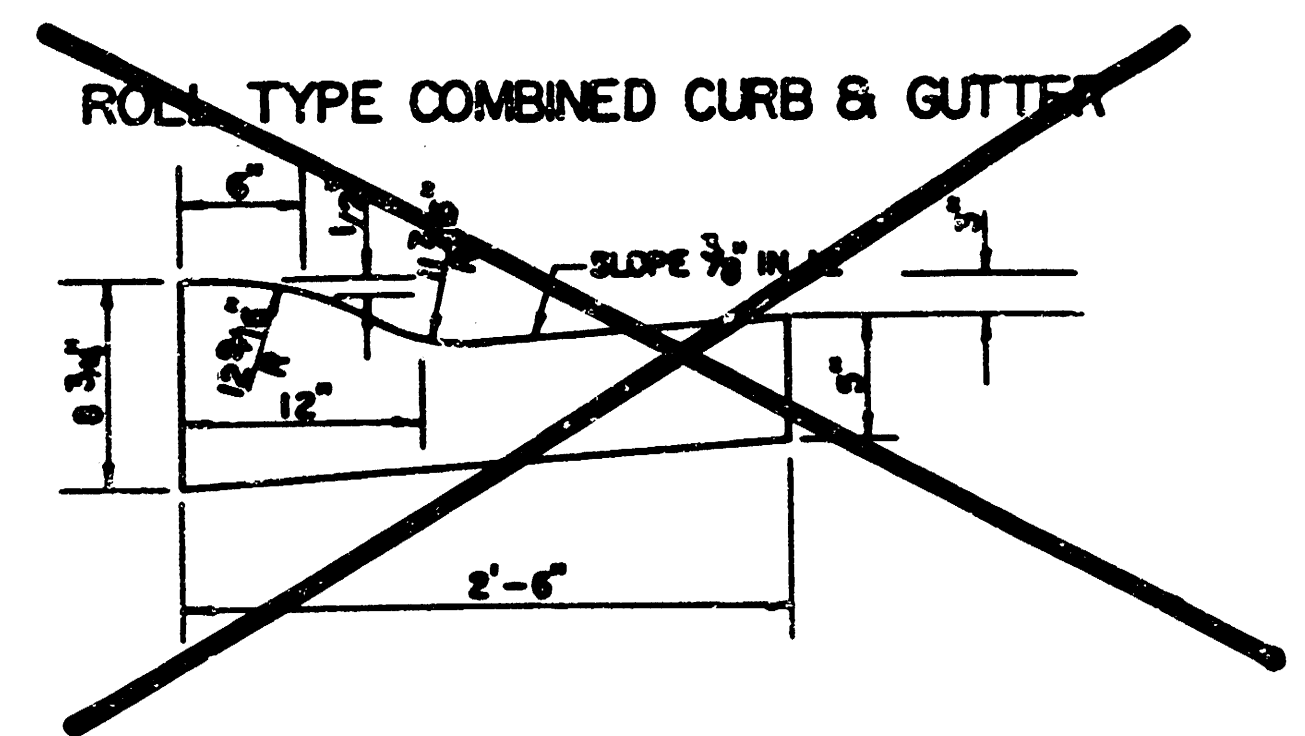
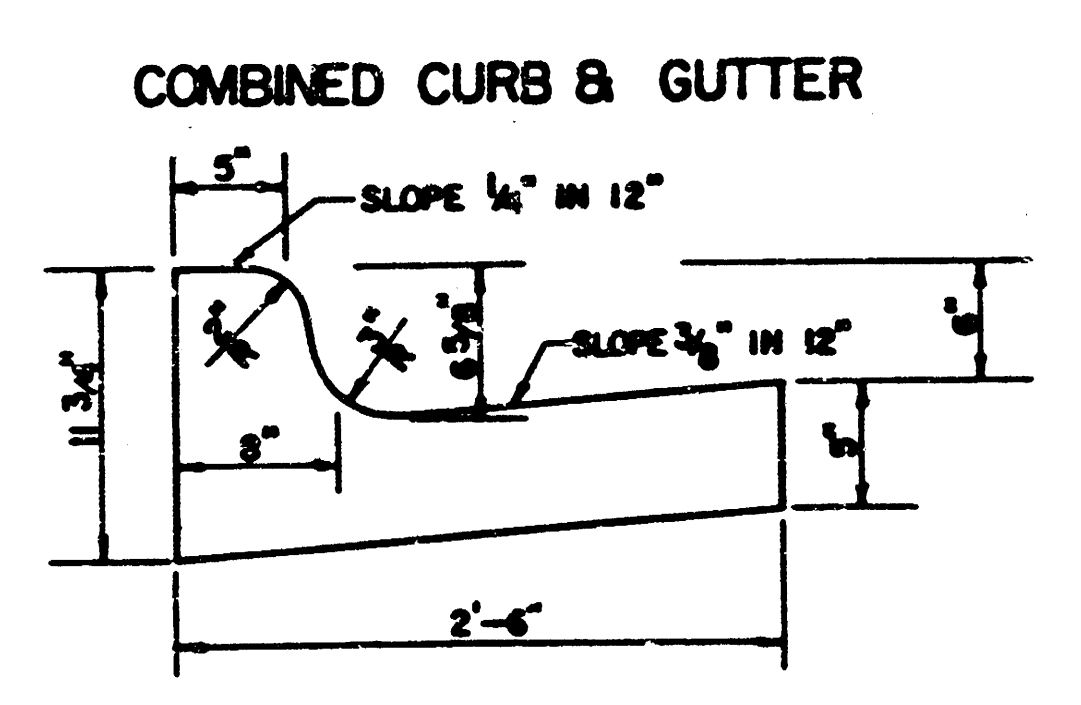
HOLLAND LANE

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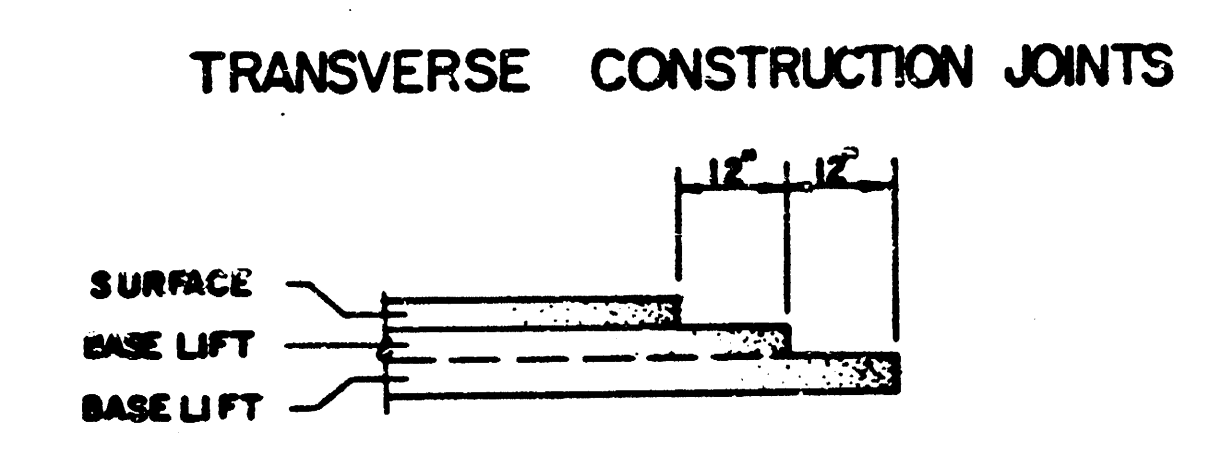
TYPICAL 37' PAVEMENT DETAILS



	DISTANCE FROM CENTERLINE (LT. & RT.)													
	0	2	4	6	8	10	12	14	16	18	20	22	24	26
A: TOP OF CURBS TO TOP OF SURFACE LIFT	.01	.05	.11	.18	.24	.30	.36	.43	.49	.55	.61	.67	.73	.79
B: TOP OF CURBS TO TOP OF UPPER BASE LIFT	.17	.22	.28	.34	.40	.47	.53	.59	.65	.71	.77	.83	.89	.95
C: TOP OF CURBS TO TOP OF LOWER BASE LIFT	.42	.47	.53	.59	.65	.72	.78	.84	.90	.97	.1.03	.1.09	.1.15	.1.21
D: TOP OF CURBS TO TOP OF SUBGRADE	.67	.72	.78	.84	.90	.97	.1.03	.1.09	.1.15	.1.22	.1.28	.1.34	.1.40	.1.46



- GENERAL NOTES**
- 1) THE ASPHALTIC CONCRETE PRESENT 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 CS-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 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 8" ASPHALTIC CONCRETE (6" BITUMINOUS BASE).

SHEET 3 OF 4

8 INCH RESIDENTIAL ASPHALTIC CONCRETE PAVEMENT WITH 6 INCH BITUMINOUS BASE

CITY OF WICHITA, KANSAS

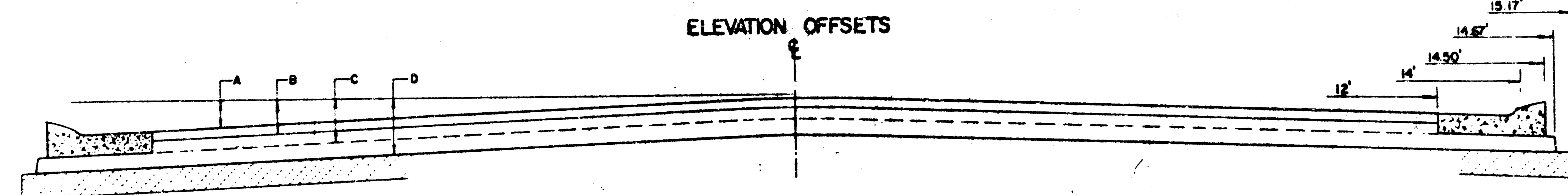
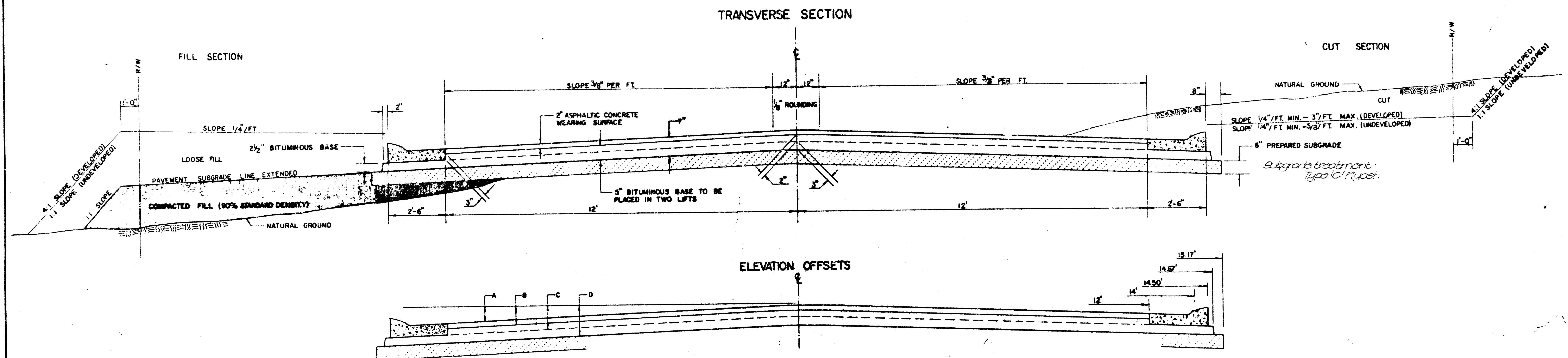
PROJECT NUMBER

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NORTHWEST PARKWAY

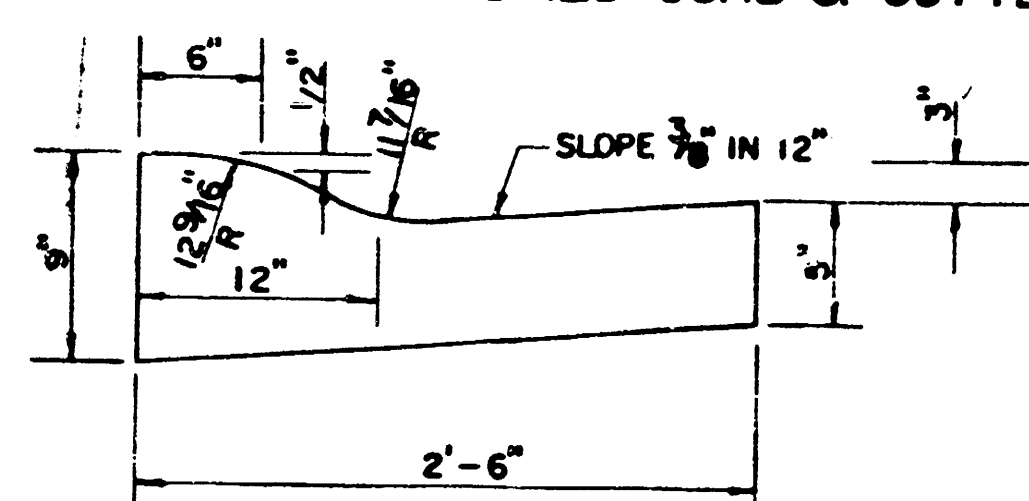
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TYPICAL 29' PAVEMENT DETAILS



	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	0.18	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	0.73	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

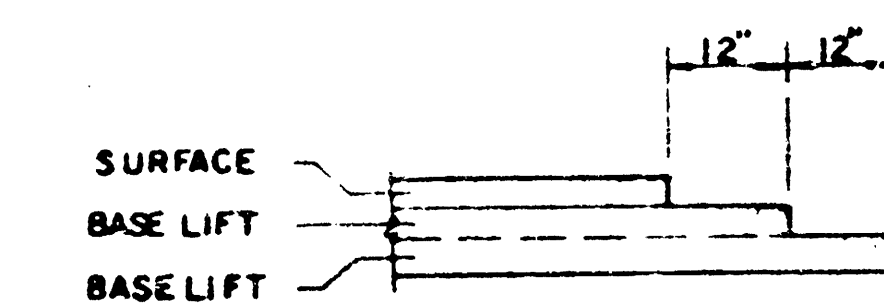
ROLL TYPE COMBINED CURB & GUTTER



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 0.35 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 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).

SHEET 4 OF 14

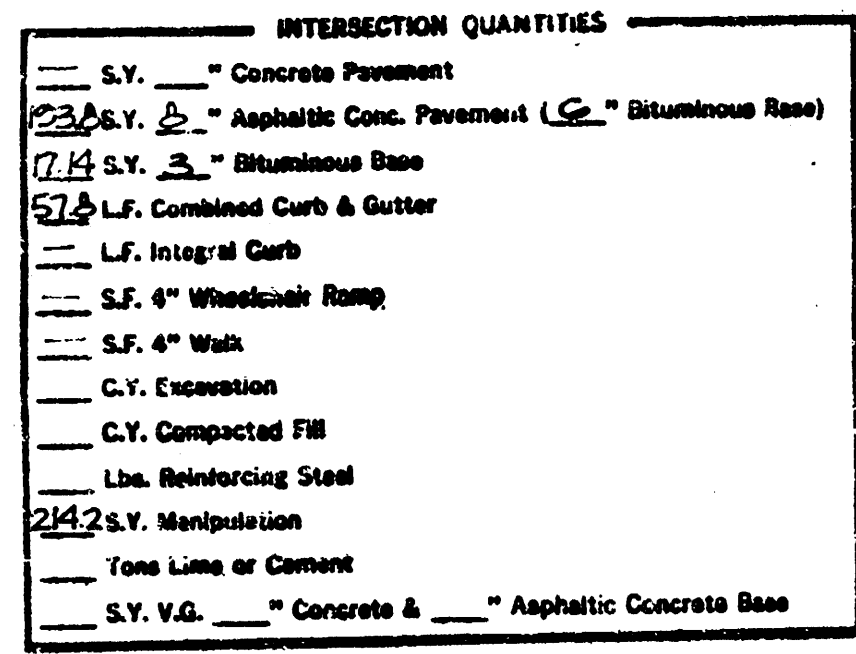
7 INCH RESIDENTIAL ASPHALTIC CONCRETE
PAVEMENT WITH 5 INCH BITUMINOUS BASE

472-76-245-81640-000-000-001

NORTHWEST PARKWAY COURT

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ADDITION



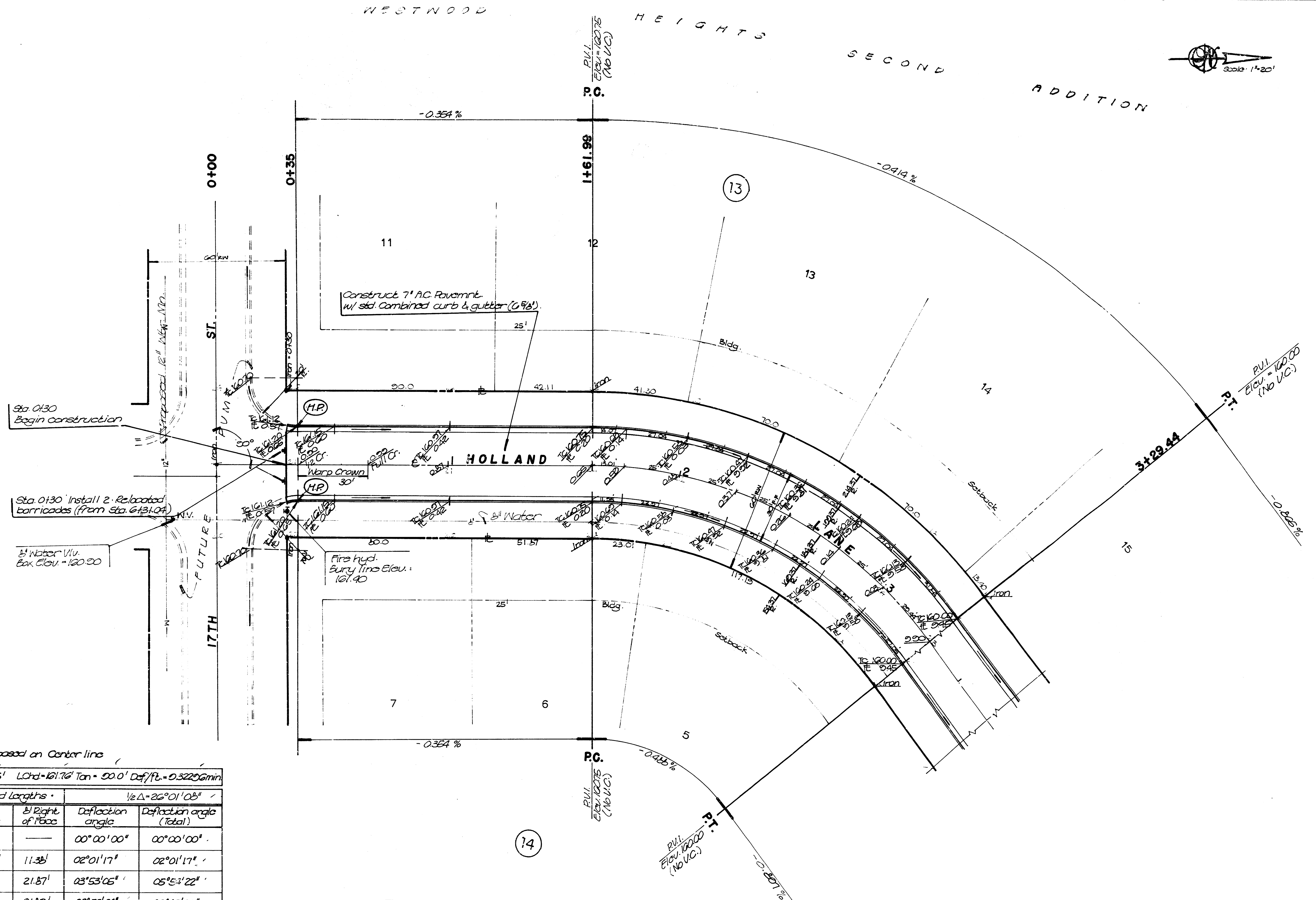
1. City Desc. 42' no and 33.5' east of Assoc. cor.
Intersection of Bridge Road at 17th Street.
Clav. = K2 bl city datum
2. 1' Out in top of curb, east side 22' north
of intersection of 17th St. at Northwest
Parkway on Northwest Parkway.
Clav. = E547 city datum
3. 1' Out in top of curb approx. 30' West of
N. Westpark at Northwest Parkway or
Northside of street.
Clav. = E548 city datum
4. 1' Out in top of curb at cor. of return West
Side of intersection Emerson
at Highland Lane.
Clav. = E549 city datum.

ED BAUGHMAN COMPANY, P.A. SURVEYING & ENGINEERING 315/262-7271 • 315 ELLIS • WICHITA, KANSAS 67211				
Design <i>N. B. Houston</i>	Drawn <i>Scott J.</i>	Approved	Date <i>April 27</i>	Scale <i>1"=20'</i>

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Benchmarks:

1. City Desc. 42' no and 33'5' east of 11300 cor. intersection of Ridge Road at 17th Street No. Elev. = 142.61 city datum
2. 1/4" Out in top of curb, east side 22' north of intersection Holland Ln. at Northwest Parkway, on Northwest Parkway. Elev. = 155.97 city datum
3. 1/4" Out in top of cb. approx. 30' west of 11300 intersection of Northwest Parkway on North side of street. Elev. = 151.62 city datum
4. 1/4" Out in top of cb. at end of return line 5'00' Emerson, intersection Emerson at Holland Lane. Elev. = 155.64 city datum.



Curve data based on Center line

R=134.37' Δ=52°02'17" L=167.45' Lchd=161.76' Tan=20.0' Def/ft.=0.32256min					
Station	Arc Length	Chord Lengths		1/2 Δ=26°01'08"	
		1/2 Left of Face	1/2 Right of Face	Deflection angle	Deflection angle (Total)
1+01.00 (P.C.)	0	—	—	00°00'00"	00°00'00"
1+75	13.01'	14.63'	11.38'	02°01'17"	02°01'17"
2+00	25.01'	28.10'	21.87'	03°53'05"	05°54'22"
2+25	25.01'	28.10'	21.87'	03°53'04"	09°47'26"
2+50	25.01'	28.10'	21.87'	03°53'04"	13°40'30"
2+75	25.01'	28.10'	21.87'	03°53'05"	17°33'35"
3+00	25.01'	28.10'	21.87'	03°53'04"	21°26'39"
3+29.44 (P.T.)	29.44'	33.08'	25.74'	04°34'20"	26°01'03"

EARTHWORK QUANTITIES	
Excavation = 283.4 C.Y.	Compacted Fill = 1197.0 C.Y.
+ 10% = 283.1	+ 10% = 119.7
Total = 3114.5 C.Y.	Total = 1316.7 C.Y.
Subgrade Manipulation = 1432.0 C.Y.	
Borrow Mat'l. = 430.0 C.Y.	
+ 10% = 43.00 C.Y.	
Total = 482.9 C.Y.	

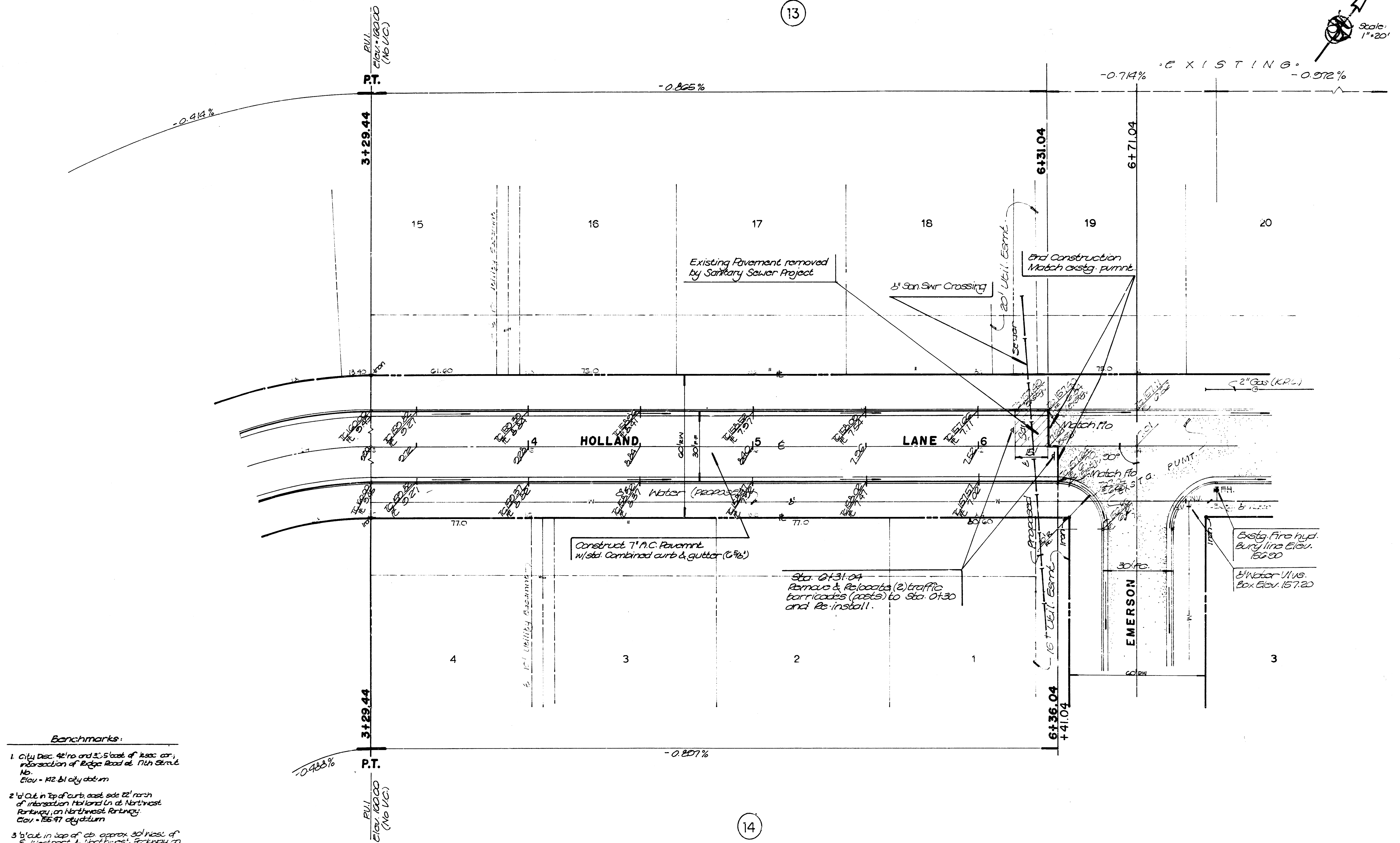
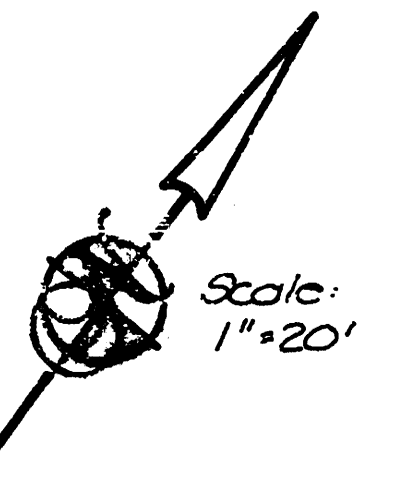
HOLLAND LANE
472-76-245-81640-000-000-001

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316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

Design	Drawn	Approved	Date	Scale
N.B. Neaton	Scal Jr.		April, 57	1"=20' 6/16

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13



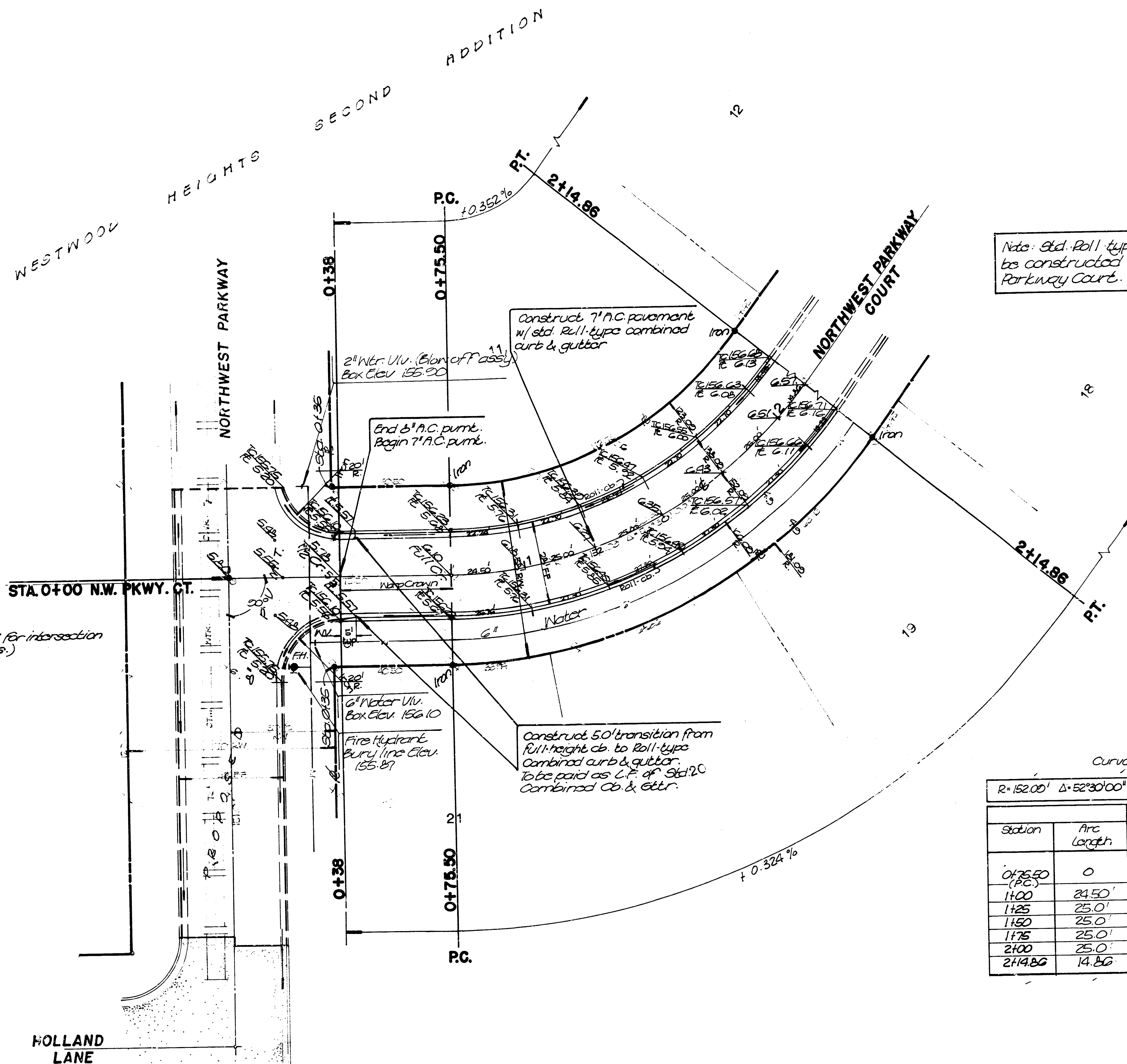
- Benchmarks:**
1. City Desc. 42'10" and 32.5' east of base cor., intersection of Ridge Road at 17th Street. Elev. = 152.81 city datum.
 2. 1' out in top of curb east side 22' north of intersection Holland Ln at Northwest Parkway on Northwest Parkway. Elev. = 155.97 city datum.
 3. 1' out in top of curb approx. 30' west of E. Highway & 1' northwest Parkway on North side of street. Elev. = 154.88 city datum.
 4. 1' out in top of curb at end of return West side Emerson; intersection Emerson at 16th Lane. Elev. = 156.84 city datum.

HOLLAND LANE
472-76-245-81640-000-000-001

ED BAUGHMAN COMPANY, P.A.				
SURVEYING & ENGINEERING				
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211				
Design	Draw	Approved	Date	Scale
N.B. Watson	Seal	Yr	April 87	1"=20'

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- Benchmarks:**
1. City Desc. 421 no and 365' back of Assoc. cor., intersection of Bridge Road at 17th Street. Elev. = 152.81 city datum
 2. 1/2" cut in top of curb, east side 12' north of intersection Holland Ln. at Northwest Parkway, on Northwest Parkway. Elev. = 155.97 city datum
 3. 1/2" cut in top of cb. approx. 30' west of E. Westport & Northwest Parkway on North side of street. Elev. = 154.88 city datum
 4. 1/2" cut in top of cb. at end of return West side Emerson; intersection Emerson at Holland Lane. Elev. = 154.86 city datum



Note: Std. Roll type curb & gutter to be constructed on Northwest Parkway Court.

Curve data based on Center line

Station	Arc Length	Chord Lengths		Deflection angle	
		Left of Face	Right of Face	Deflection angle	Deflection angle (Total)
0+75.50 (P.C.)	0	—	—	00°00'00"	00°00'00"
1+00	24.50'	20.53'	24.01'	04°36'53"	04°36'53"
1+25	25.0'	21.36'	24.55'	04°42'33"	09°19'26"
1+50	25.0'	21.36'	24.55'	04°42'33"	14°01'59"
1+75	25.0'	21.36'	24.55'	04°42'33"	18°44'31"
2+00	25.0'	21.36'	24.55'	04°42'33"	23°27'04"
2+14.86 (P.T.)	14.86'	12.70'	17.00'	02°47'56"	26°15'00"

NORTHWEST PARKWAY COURT
472-76-245-81640-000-000-001

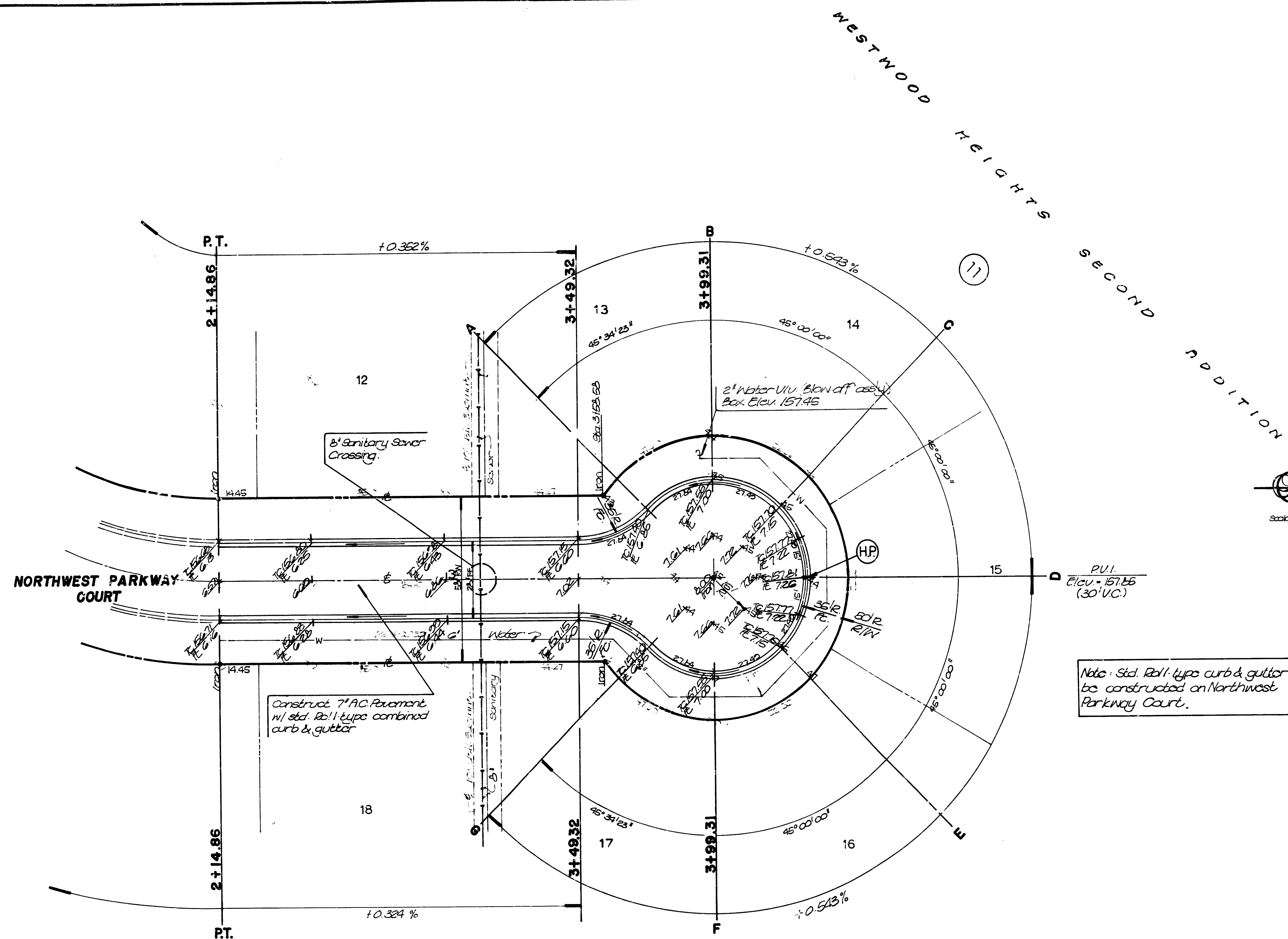
BAUGHMAN COMPANY, P.A.
SURVEYING & ENGINEERING
318-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

Design: N.B. Watson Drawn: Approved: Date: April, 87 Scale: 1"=20' Sheet: 8 of 14

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Benchmarks:

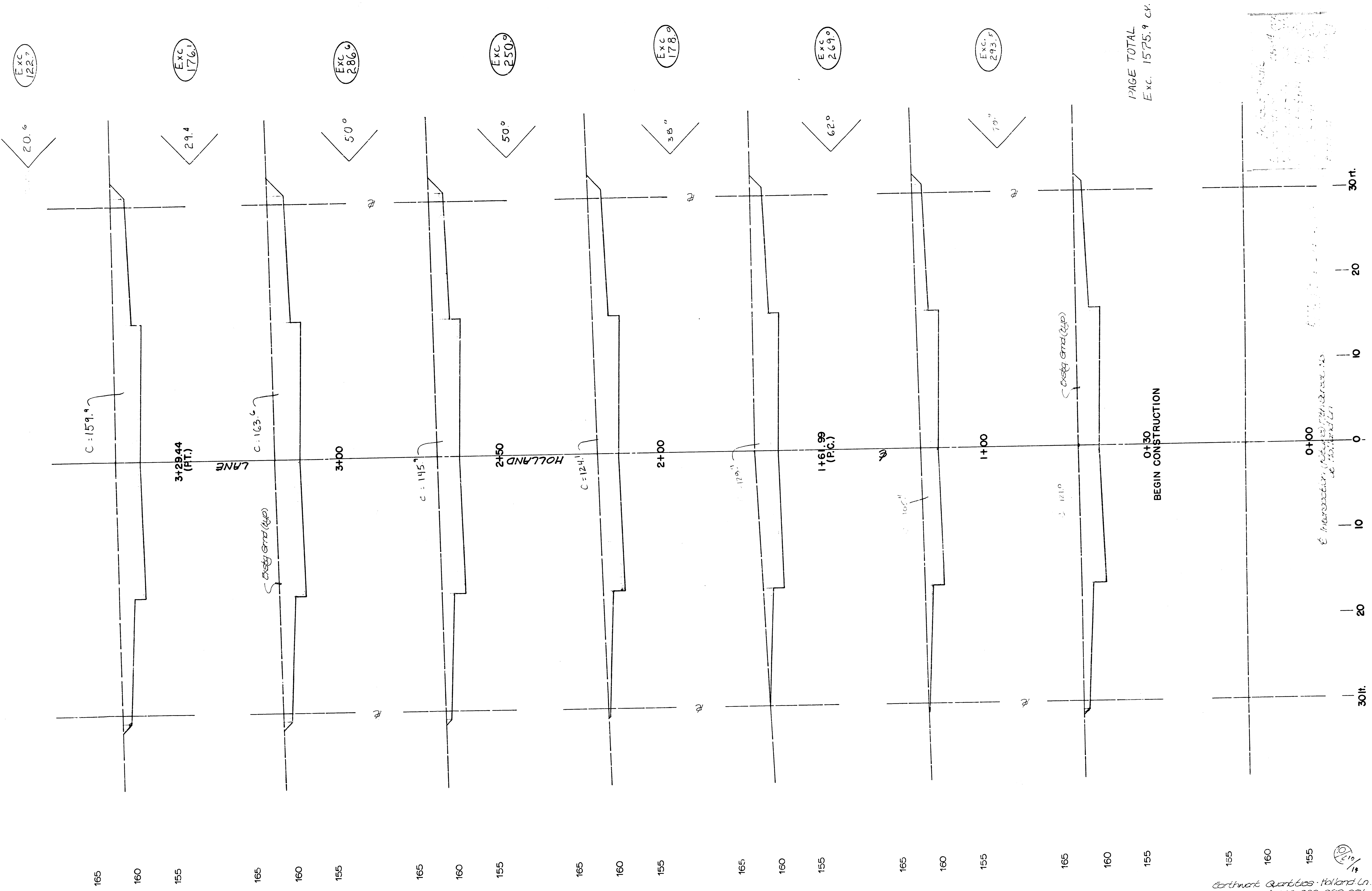
1. City Doc. 42/10 and 36.5' east of 1st sec. cor., intersection of Ridge Road & 17th Street. Elev. = 152.61 city datum
2. Cut in top of curb east side 22' north of intersection Holland Ln. & Northwest Parkway, on Northwest Parkway. Elev. = 155.97 city datum
3. Cut in top of ab. approx. 30' west of E. Westwood & Northwest Parkway on North side of street. Elev. = 154.62 city datum
4. Cut in top of ab. and of return intel. 6'00' Emerson; intersection Emerson & Holland Lane. Elev. = 156.64 city datum.



NORTHWEST PARKWAY COURT
472-76-245-81640-000-001

BAUGHMAN COMPANY, P.A.				
SURVEYING & ENGINEERING				
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211				
Design	Drawn	Approved	Date	Scale
N.B. Wadon	Scal Jr.		April 1, 57	1" = 20'

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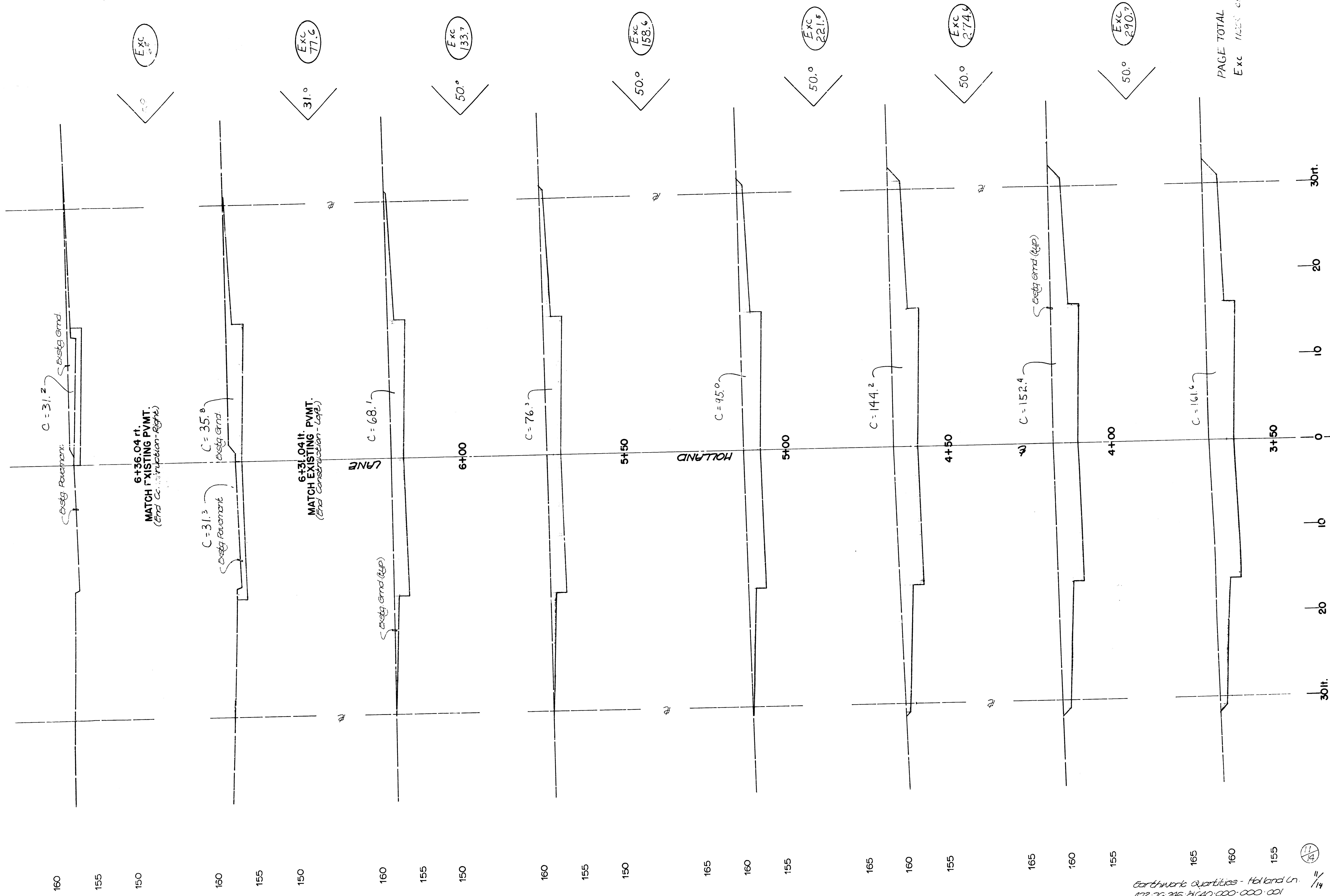


PAGE TOTAL
Exc. 1575.9 cu.

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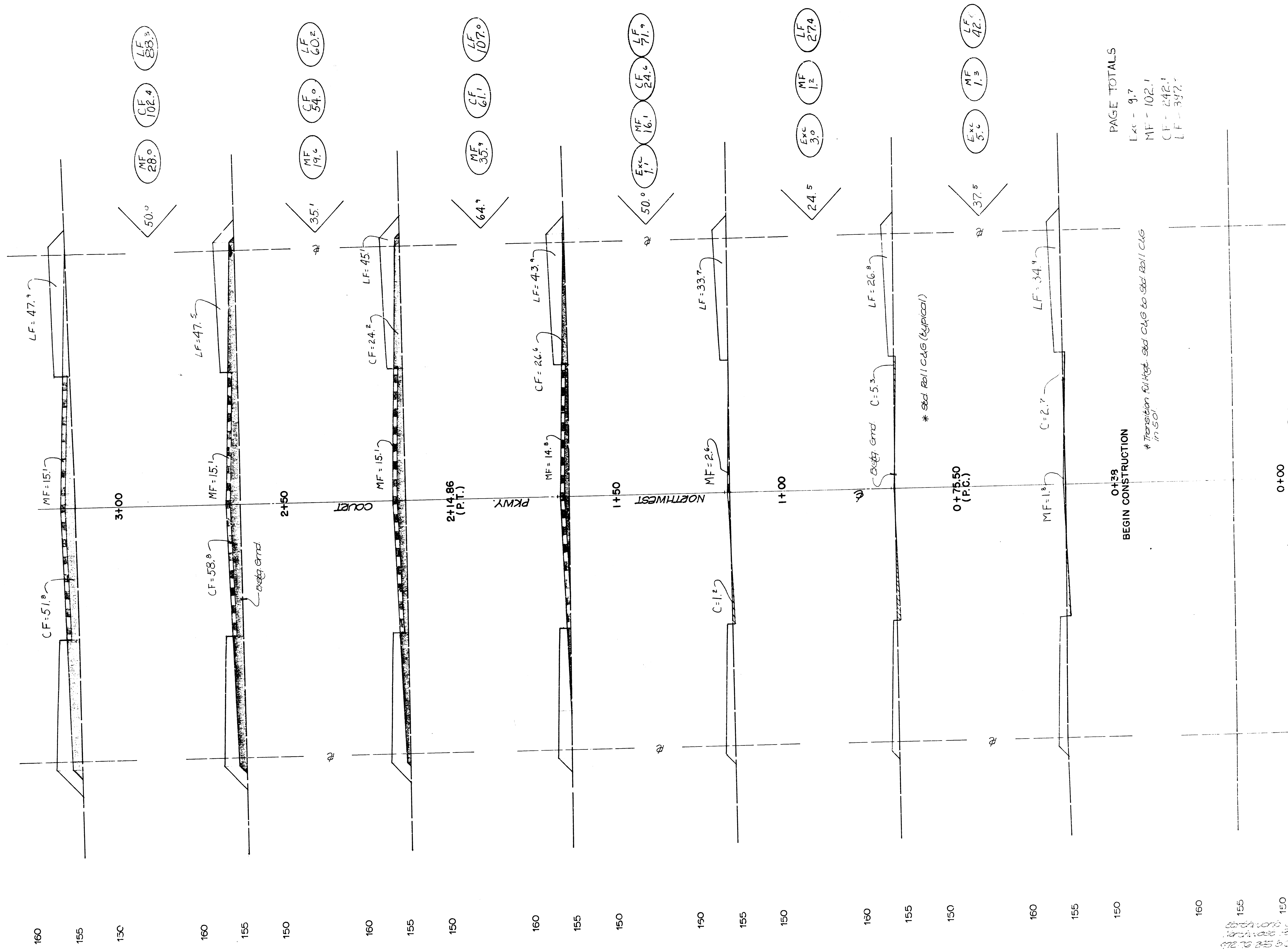
Earthwork Quantities: Holland Ln.
472-76-245-BIGAO-000-000-001

10/14



Earthwork Quantities - Holland Ln.
472.76 245.81 640.000.000.001

PAGE TOTAL
Exc 11,225 cu yd



PAGE TOTALS

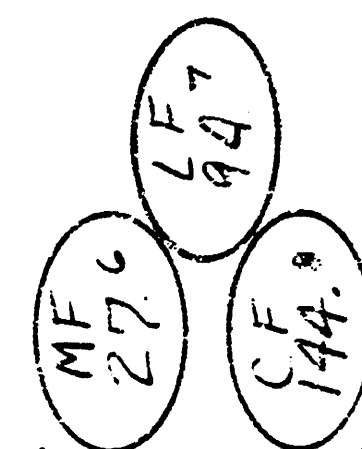
Exc - 9.7
MF - 102.1
CF - 242.1
LF - 392.1

* Intersection of Centerline and Right-of-Way Line
at 0+00

30 ft
100 ft

10 0 10 20 30 ft

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$$MF = 158.9$$

MF - 158.9

CF-954.0

LF-322,2

5

1

2

2

19. 3

51

1.