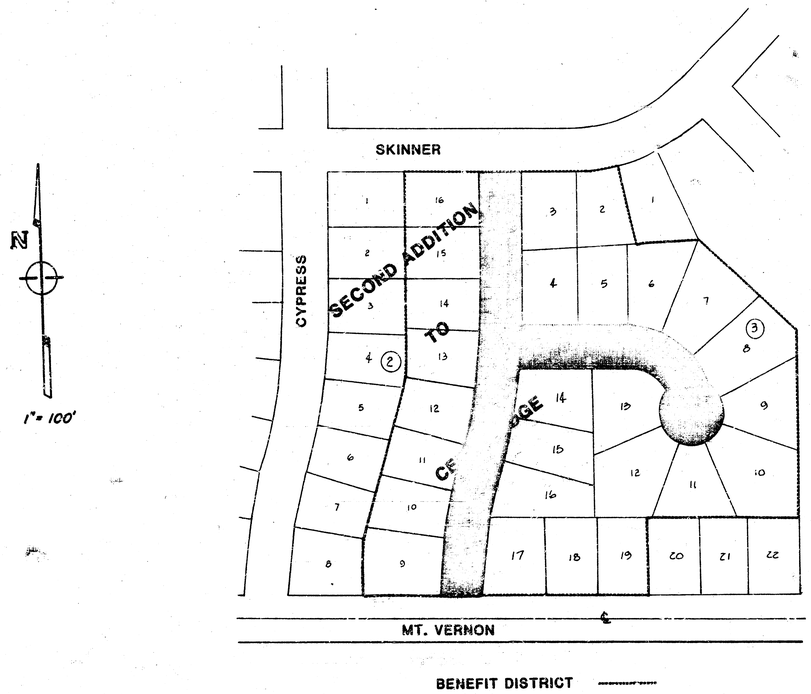
STREET IMPROVEMENTS FOR

SECOND ADDITION TO CEDAR RIDGE

COOPER - FROM THE N.L. OF MT. VERNON TO THE S.L. OF SKINNER
COOPER COURT - FROM THE E.L. OF COOPER TO AND INCL. CUL-DE-SAC

PROJECT NO.

472-76-245-81083-000-000-001



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.

The contractor shall contact the utility companies for any proposed or existing underground lines which they may have in the vicinity of construction of this project.

No more than 15 drives shall be constructed on this project. Contact Clifford Nies, 684-0161, for locations of the necessary driveways.

The contractor shall coordinate the construction of this project with the water line construction proposed for these streets.

CITY OF WICHITA, KS

MIKE E. LINDEBAK——CITY ENGINEER

N. BRENT WOOTEN LICENSED 8479 KANSAS PROFESSIONAL ENGINEER

OCTOBER 1984

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

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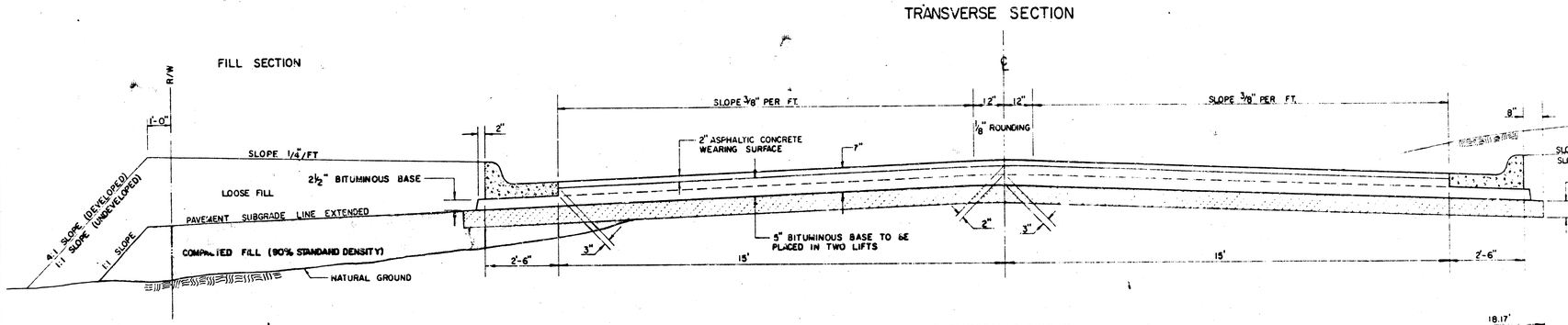
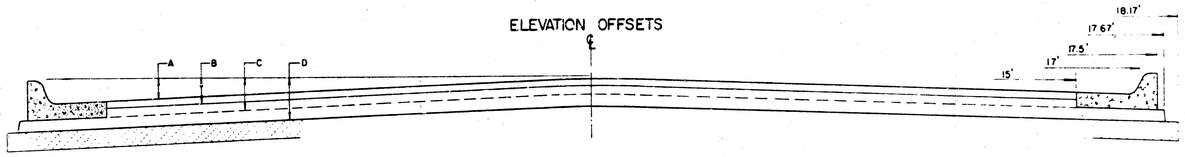
TYPICAL 35' PAVEMENT DETAILS

TRANSVERSE SECTION

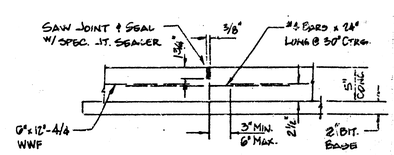


ELEVATION OFFSETS

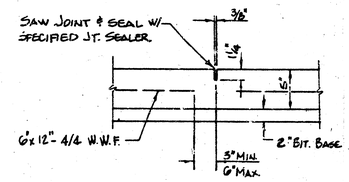


	DISTANCE FROM CENTERLINE (LT. & RT.)												
	0'	2'	4'	6'	8.5'	10'	12'	14'	15'	17'	17.5'	17.67'	18.17'
A: TOP OF CURBS TO TOP OF SURFACE LIFT	0.04	0.08	0.14	0.21	0.29	0.33	0.39	0.46	0.49	—	—	—	—
B: TOP OF CURBS TO TOP OF UPPER BASE LIFT	0.21	0.25	0.31	0.37	0.45	0.50	0.56	0.62	0.65	—	—	—	—
C: TOP 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

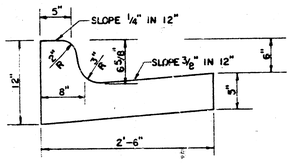
LONGITUDINAL SAWED JOINT FOR CONCRETE VALLEY GUTTER

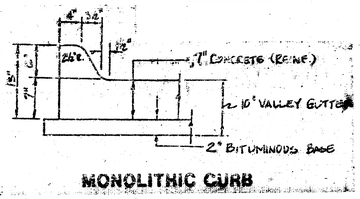


CONTRACTION JOINT FOR CONCRETE VALLEY GUTTER



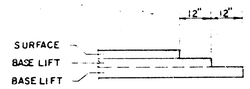
COMBINED CURB & GUTTER





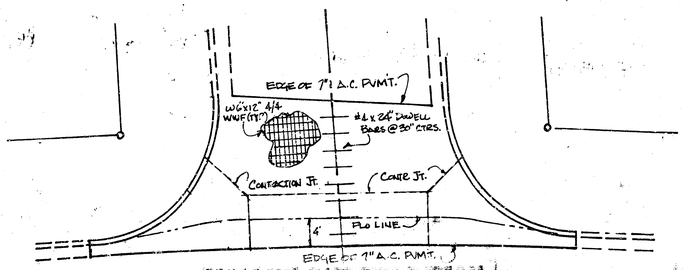
MONOLITHIC CURB

TRANSVERSE CONSTRUCTION JOINTS



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.



VALLEY GUTTER DETAIL
CONSTR./CONTR. JT.

7 INCH RESIDENTIAL ASPHALTIC CONCRETE PAVEMENT WITH 5 INCH BITUMINOUS BASE
CITY OF WICHITA, KANSAS
PROJECT NUMBER
472-76-845-31083-000-000-001

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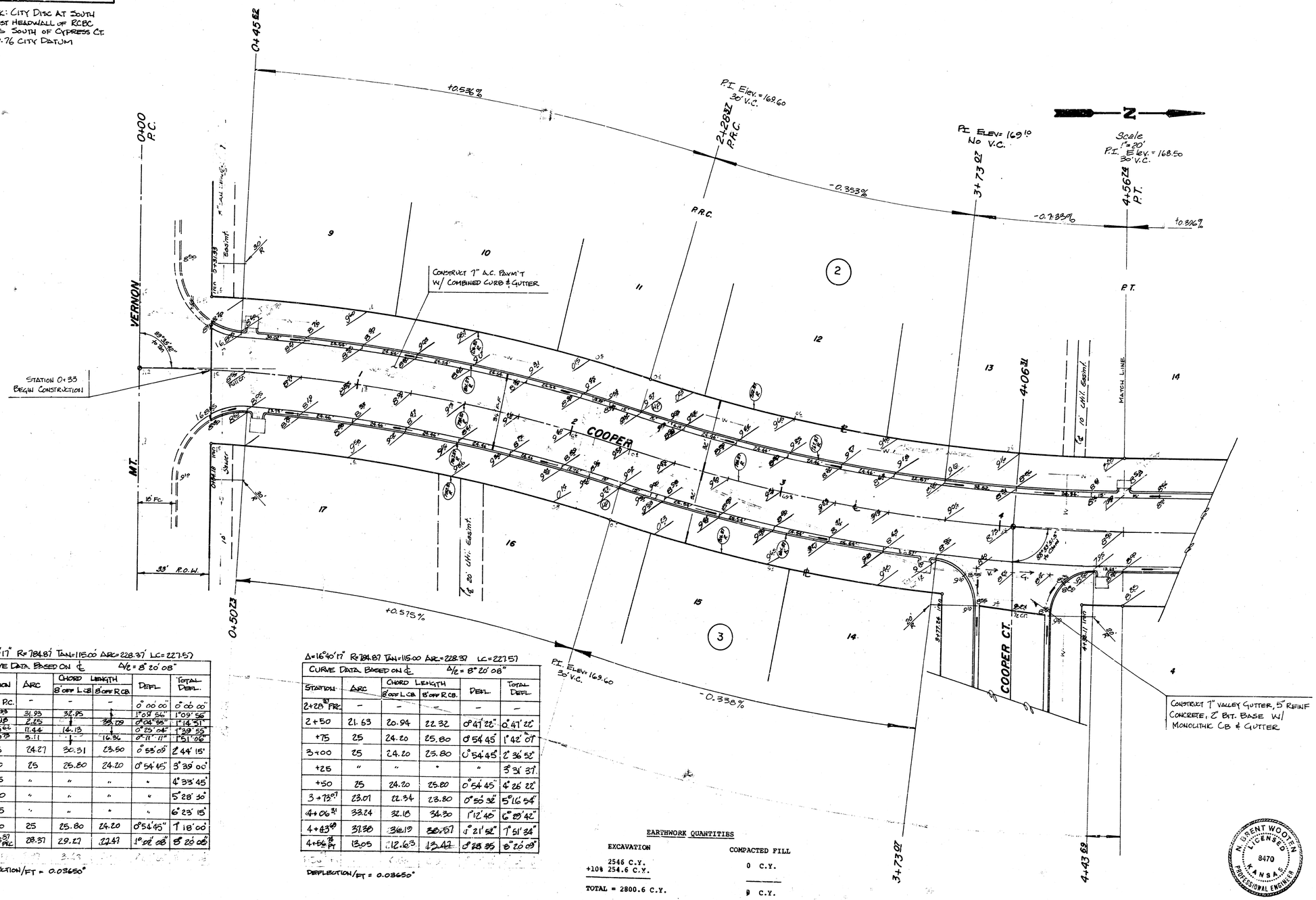
FILMED FROM THE BEST

BENCH MARK: CITY DISC WEBB ROAD & MT. VERNON, 1/2 MILE S. OF HARRY
ELEV= 182.48 CITY DATUM

BENCH MARK: CITY DISC AT SOUTH END OF WEST HEADWALL OF RCBC ON CYPRESS SOUTH OF CYPRESS CT.
ELEV.= 170.76 CITY DATUM



Δ=16°40'17" R=384.87 TAN=115.00 ARC=228.37' LC=227.57

CURVE DATA BASED ON ℄ Δ/2 = 8°20'08"

STATION	ARC	CHORD LENGTH 8' OFF L.C.B.	CHORD LENGTH 8' OFF R.C.B.	DEFL.	TOTAL DEFL.
0+00 P.C.	–	–	–	0°00'00"	0°00'00"
0+31.93	31.93	32.05		1°09'56"	1°09'56"
0+33.18	1.25		33.09	0°04'39"	1°14'35"
0+45.62	11.44	16.13		0°25'04"	1°39'55"
0+50.73	5.11		16.36	0°11'11"	1°51'06"
+75	24.27	30.31	23.50	0°55'05"	2°44'15"
1+00	25	25.80	24.20	0°54'45"	3°39'00"
+25	"	"	"	"	4°33'45"
+50	"	"	"	"	5°28'30"
+75	"	"	"	"	6°23'15"
2+00	25	25.80	24.20	0°54'45"	7°18'00"
2+28.37 PRC	28.37	29.27	27.47	1°02'08"	8°20'08"

DEFLECTION/FT = 0.03650°

Δ=16°40'17" R=384.87 TAN=115.00 ARC=228.37 LC=227.57

CURVE DATA BASED ON ℄ Δ/2 = 8°20'08"

STATION	ARC	CHORD LENGTH 8' OFF L.C.B.	CHORD LENGTH 8' OFF R.C.B.	DEFL.	TOTAL DEFL.
2+28.37 PRC	–	–	–	–	–
2+50	21.63	20.94	22.32	0°47'22"	0°47'22"
+75	25	24.20	25.80	0°54'45"	1°42'07"
3+00	25	24.20	25.80	0°54'45"	2°36'52"
+25	"	"	"	"	3°31'37"
+50	25	24.20	25.80	0°54'45"	4°26'22"
3+73.07 PRT	23.07	22.34	23.80	0°50'32"	5°16'54"
4+06.31	33.24	32.18	34.30	1°12'48"	6°29'42"
4+63.90	31.30	30.19	32.51	1°21'52"	7°51'34"
4+56.24 PT	13.05	12.63	13.47	0°28'35"	8°20'09"

DEFLECTION/FT = 0.03650°

EARTHWORK QUANTITIES

EXCAVATION	COMPACTED FILL
2546 C.Y.	0 C.Y.
+10% 254.6 C.Y.	
TOTAL = 2800.6 C.Y.	0 C.Y.

SUBGRADE MANIPULATION 4286 SY

N. DIRENT WOOTEN LICENSED 8470 KANSAS PROFESSIONAL ENGINEER

COOPER

PROJ. NO. 472-76-245-81083-000-000-001

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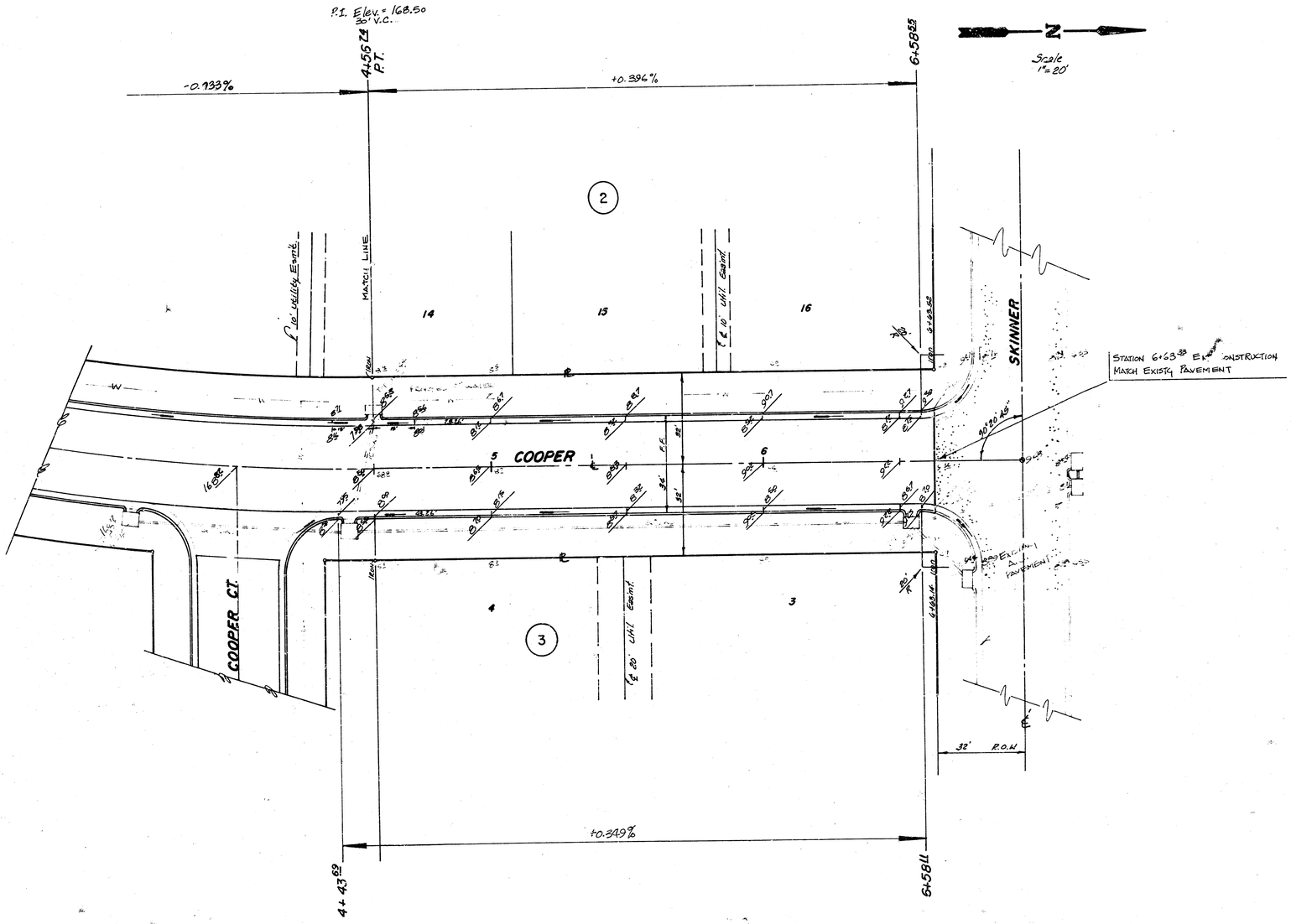
BENCH MARK: CITY DISC WEBB ROAD & MT. VERNON, ½ MILE S. HARRY
ELEV= 182.48 CITY DATUM



COOPER

PROJ. NO. 472-76-245-81083-000-000-001

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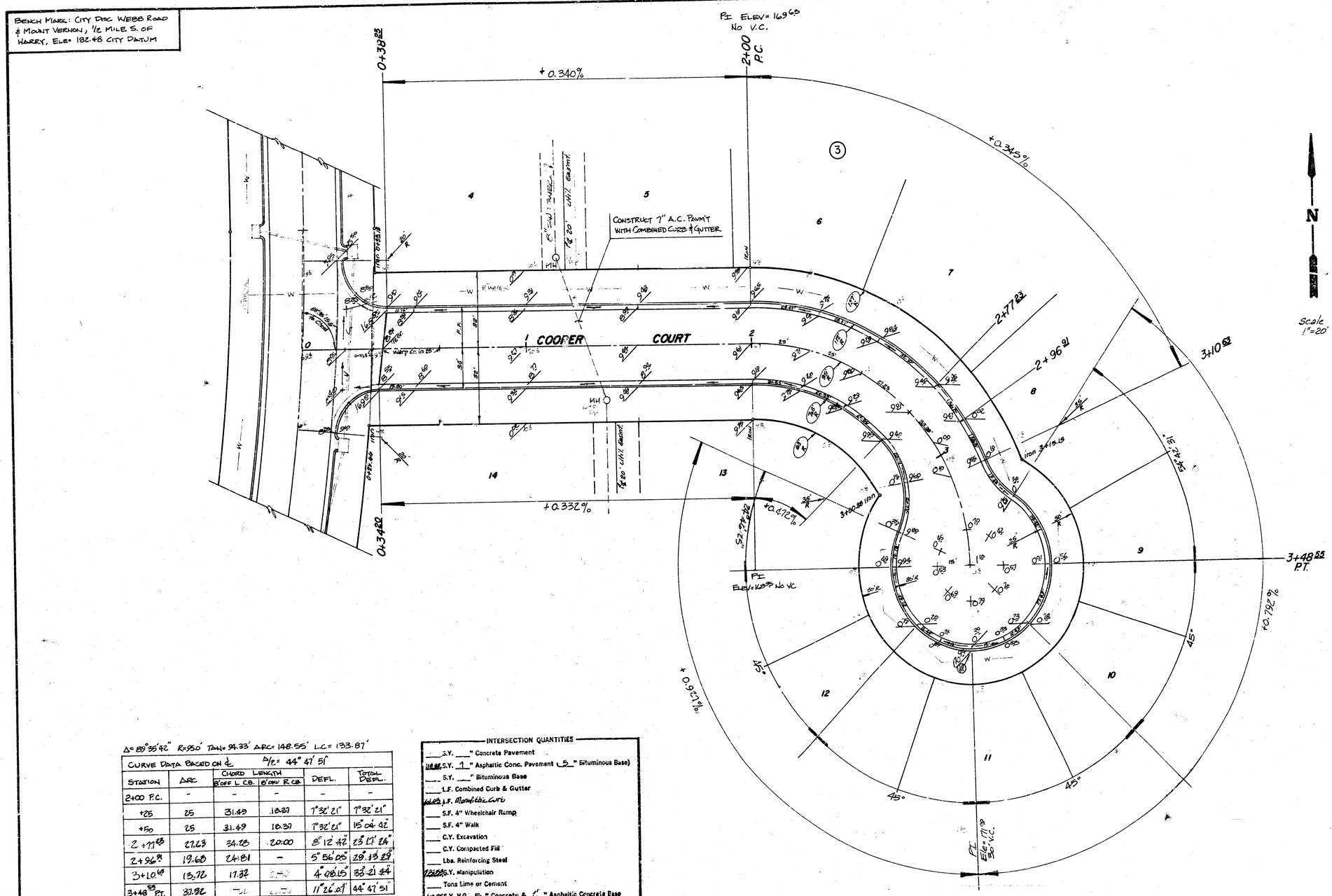


Δ= 89°35'42" R=95.0' TAN= 94.33' ARC= 148.55' L.C= 133.87'

CURVE DATA BASED ON ℄			Δ/2= 44° 47' 51"		
STATION	ARC	CHORD LENGTH 8' OFF L CB.	CHORD LENGTH 8' OFF R CB.	DEFL.	TOTAL DEFL.
2+00 P.C.	-	-	-	-	-
+25	25	31.49	18.37	7°32'21"	7°32'21"
+50	25	31.49	18.37	7°32'21"	15°04'42"
2+77.23	27.23	34.28	20.00	8°12'42"	23°17'24"
2+96.91	19.68	24.81	-	5°56'05"	29°13'29"
3+10.63	13.72	17.32	[illegible]	4°08'15"	33°21'44"
3+48.55 P.T.	37.92	[illegible]	[illegible]	11°26'07"	44°47'51"

DEFLECTION/FT = 0.30157°

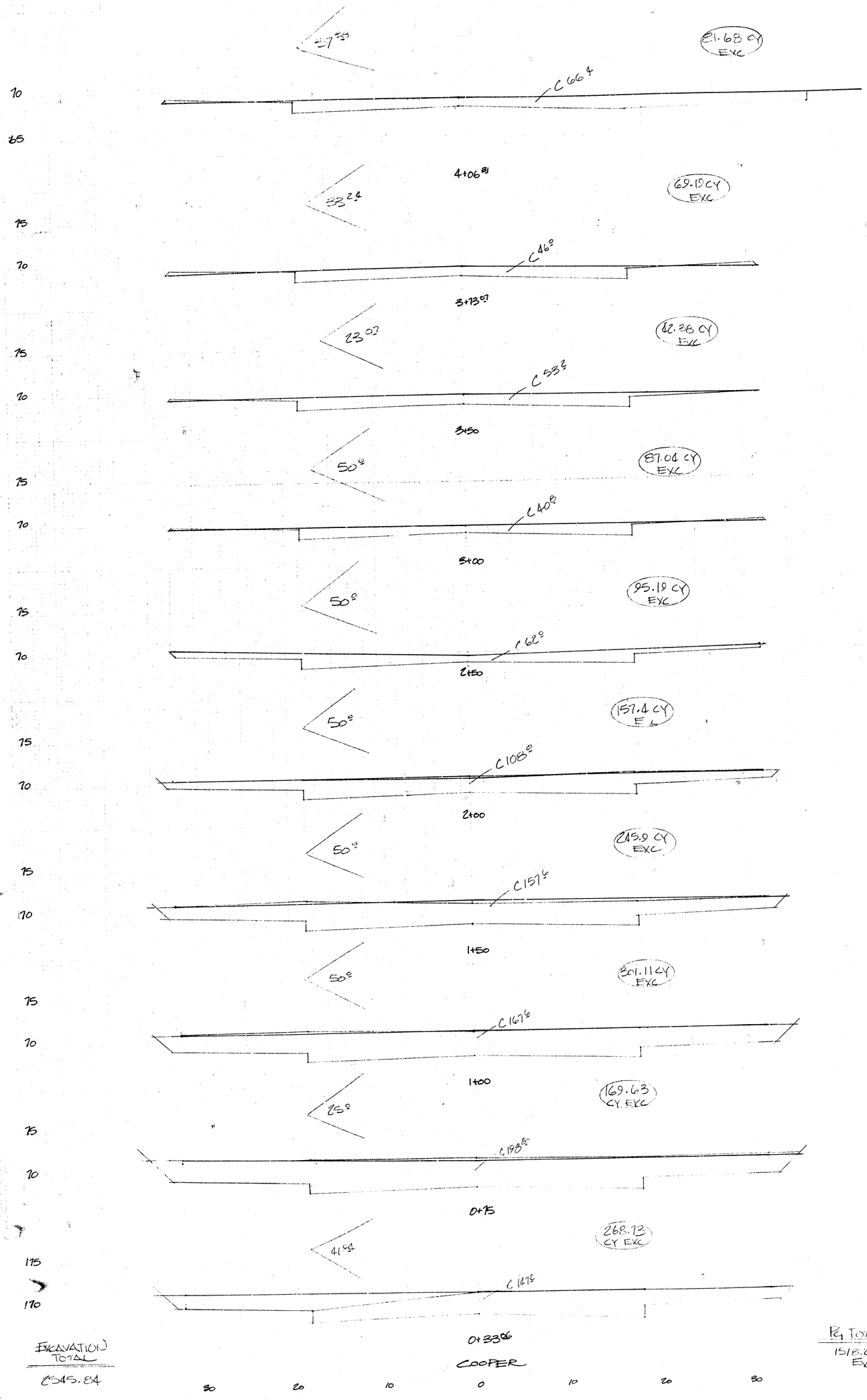
INTERSECTION QUANTITIES

___ S.Y. ___" Concrete Pavement
[illegible] S.Y. 1" Asphaltic Conc. Pavement (5" Bituminous Base)
___ S.Y. ___" Bituminous Base
___ L.F. Combined Curb & Gutter
[illegible] L.F. Monolithic Curb
___ S.F. 4" Wheelchair Ramp
___ S.F. 4" Walk
___ C.Y. Excavation
___ C.Y. Compacted Fill
___ Lbs. Reinforcing Steel
[illegible] S.Y. Manipulation
___ Tons Lime or Cement
[illegible] S.Y. V.G. 5" Concrete & 1" Asphaltic Concrete Base

COOPER COURT 5/8

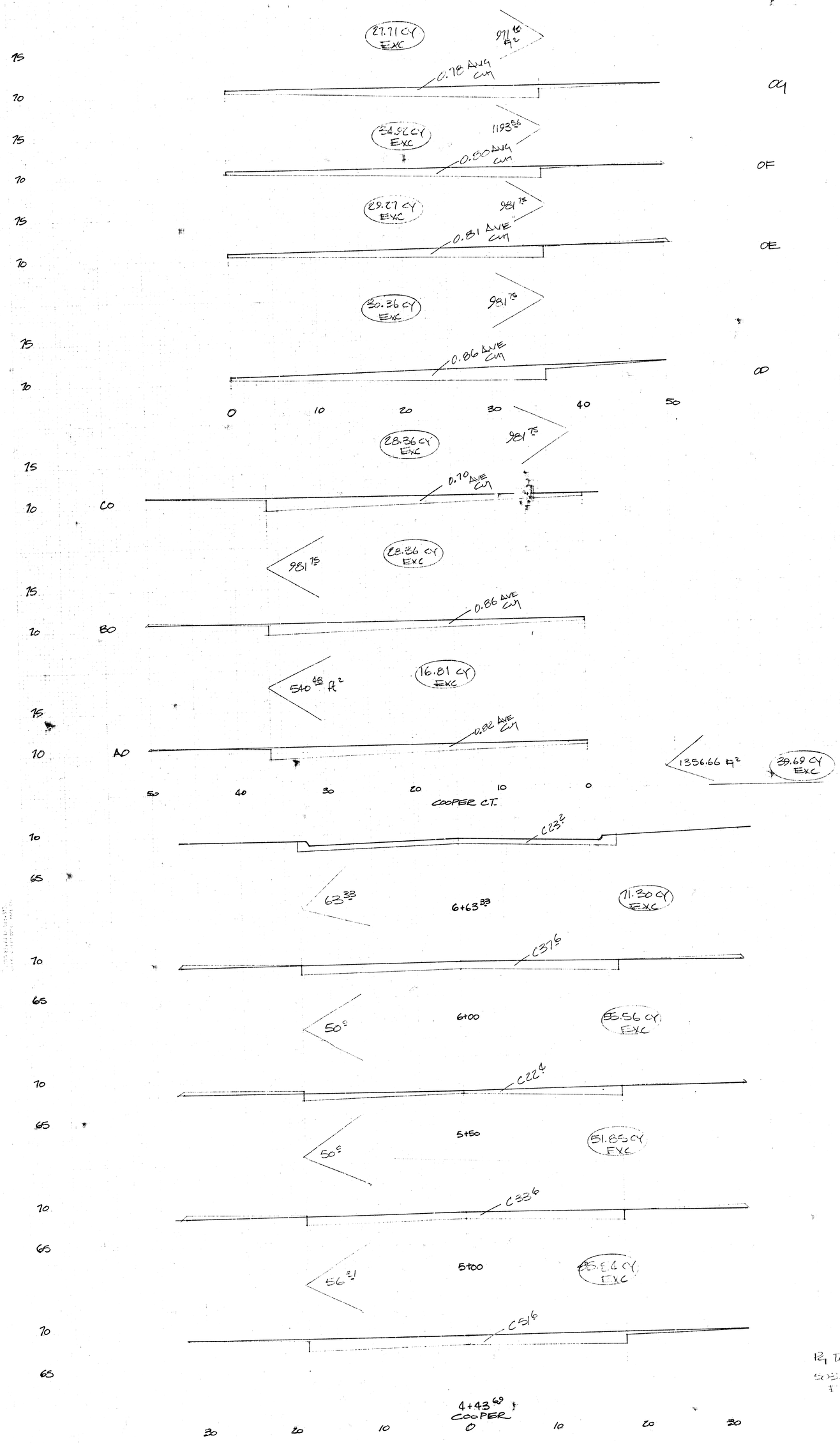
PROJ. NO. 472-75-245-81083-000-000-001

FILMED FROM THE BEST

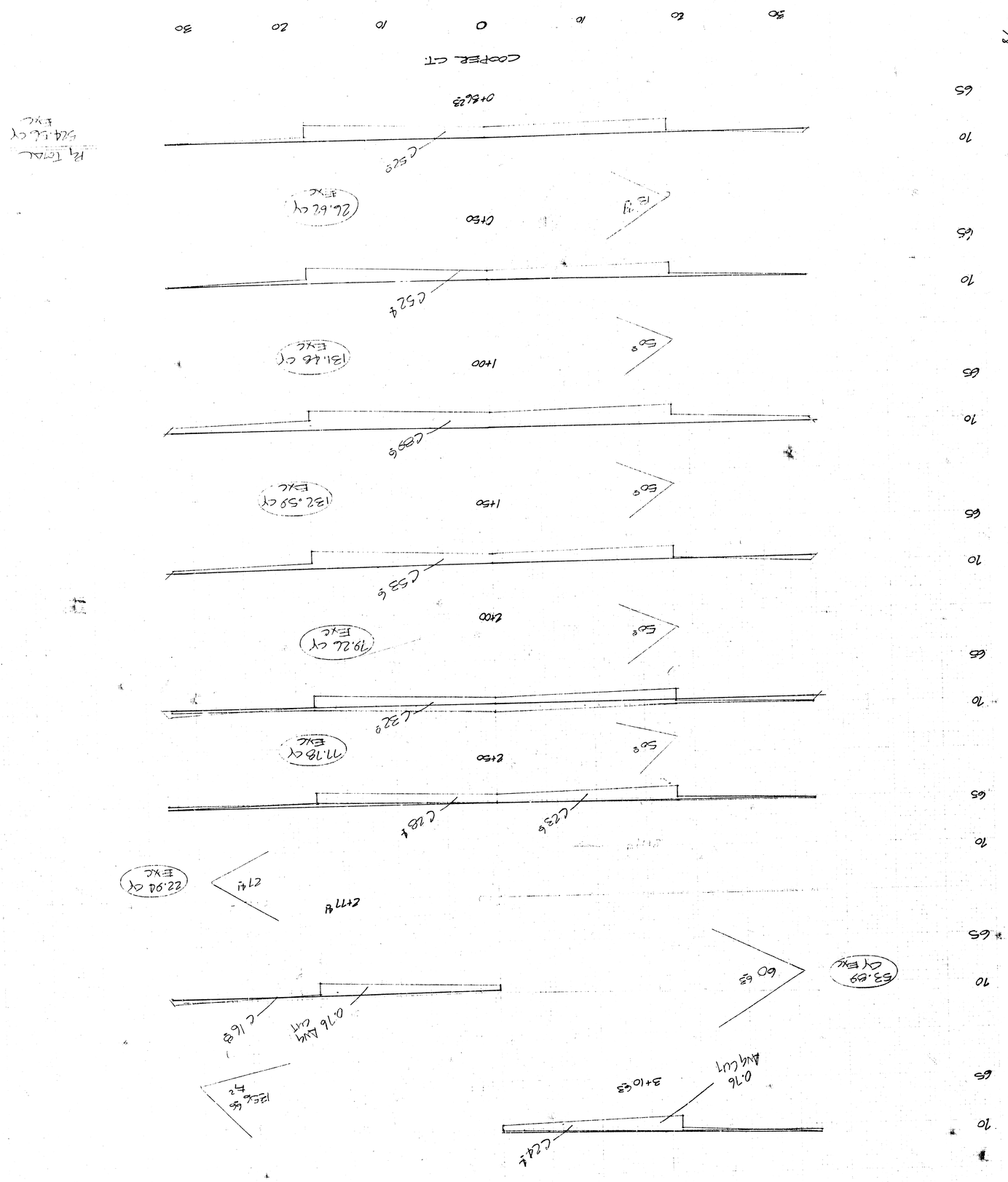


EXCAVATION TOTAL
2545.84

PG TOTAL
1518.25 CY EXC



27.71 CY EXC
971.46 ft²
0.78 AVG CUT
OG
34.92 CY EXC
1193.56
0.80 AVG CUT
OF
29.27 CY EXC
981.75
0.81 AVE CUT
OE
30.36 CY EXC
981.75
0.86 AVE CUT
OD
28.36 CY EXC
981.75
0.70 AVE CUT
CO
981.75
28.36 CY EXC
0.86 AVE CUT
BO
540.48 ft²
16.81 CY EXC
0.82 AVE CUT
AO
1356.66 ft²
39.69 CY EXC
COOPER CT.
C23.2
63.33
6+63.33
71.30 CY EXC
C37.6
50.0
6+00
55.56 CY EXC
C22.4
50.0
5+50
51.85 CY EXC
C33.6
56.31
5+00
55.84 CY EXC
C51.6
4+43.69 COOPER



COOPER CT.
0+86.23
C50
26.62 CY EXC
0+50
C52
131.48 CY EXC
1+00
C89
132.59 CY EXC
1+50
C53
79.26 CY EXC
2+00
C32
77.78 CY EXC
2+50
C28
C23
22.94 CY EXC
2+77
C16
0.76 AVG CUT
53.89 CY EXC
60
3+10
0.76 AVG CUT
C24