32ND ST. N. E.L. FAIRVIEW TO W.L. PARK PLACE

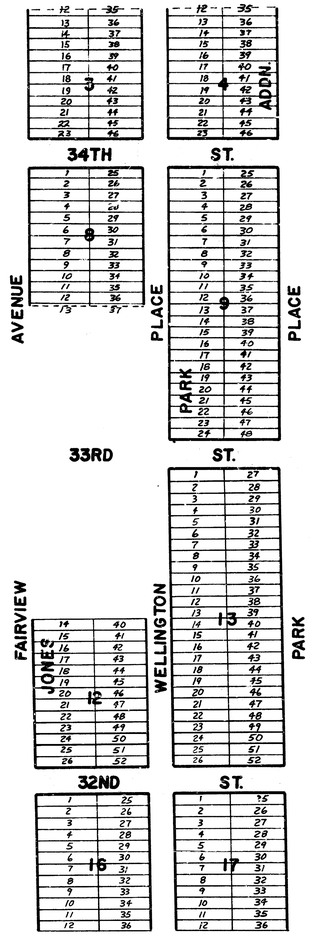
33RD ST. N. E.L. WELLINGTON PLACE TO E.L. PARK PLACE

34TH ST. N. E.L. FAIRVIEW TO W.L. WELLINGTON PLACE

34TH ST. N. E.L. WELLINGTON PLACE TO W.L. PARK PLACE

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GENERAL NOTES:

1) CONSTRUCTION OF THIS PROJECT IS TO BE COORDINATED WITH THE CONSTRUCTION OF THE FOLLOWING PROJECTS:
   1) PARK PLACE - S.L. 32ND TO S.L. 35TH, PROJECT NO. 472-76-245-81190-000-000-001.
   2) WELLINGTON PLACE - N.L. 32ND TO S.L. 35TH, PROJECT NO. 472-76-245-81219-000-000-001.
   3) WELLINGTON PLACE - S.L. 33RD TO S.L. 35TH, PROJECT NO. 472-76-245-81235-000-000-001

2) TREES WITHIN THE LIMITS OF THIS PROJECT ARE TO BE REMOVED ONLY AT THE DIRECTION OF THE FIELD ENGINEER.

3) MAILBOXES WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND REPLACED AS APPROVED BY THE FIELD ENGINEER. THE CONTRACTOR WILL BE REQUIRED TO MAKE SATISFACTORY PROVISIONS FOR MAIL DELIVERY TO PROPERTIES AFFECTED BY THIS PROJECT DURING CONSTRUCTION.

4) ALL ENTRANCE AND CROSS-ROAD DRAINAGE PIPES WITHIN THE PROJECT LIMITS SHALL BE REMOVED BY THE CONTRACTOR. (THIS DOES NOT INCLUDE PIPE ON 33RD ST. NO., EAST OF THE E.L. OF PARK PLACE, SAID PIPE BEING BEYOND THE OFFICIAL PROJECT LIMITS)

5) FENCE REMAINING IN PUBLIC R.O.W. AT THE TIME OF CONSTRUCTION SHALL BE REMOVED AND SALVAGED BY CONTRACTOR AND GIVEN TO THE ADJACENT PROPERTY OWNERS. IN THE EVENT THAT THE PROPERTY OWNER DOES NOT WANT THE FENCE MATERIAL, THE CONTRACTOR SHALL DISPOSE OF SAME IN A MANNER ACCEPTABLE TO THE FIELD ENGINEER.

ROBERT A. MARMET
LICENSED
9424
KANSAS
PROFESSIONAL ENGINEER

PROJECT NO. 472-76-245-81328-000-000-001

CITY OF WICHITA M. E. LINDEBAK CITY ENGINEER

LANDCO ENGINEERING CONSULTANT ENGINEER

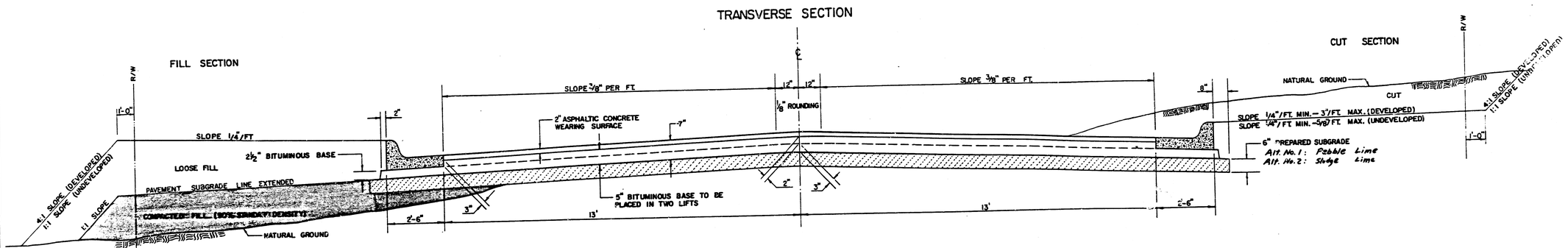
1/12

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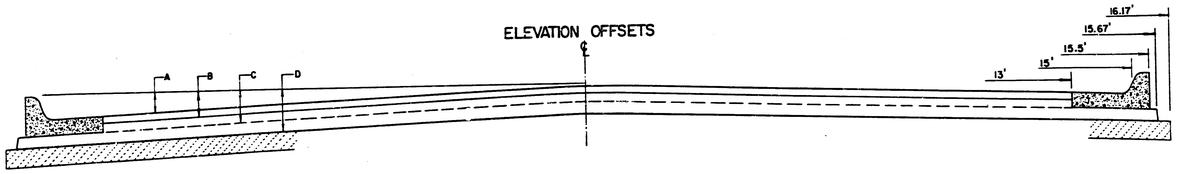
TYPICAL 31' PAVEMENT DETAILS

(32nd Street N. and 34th Street N.)

TRANSVERSE SECTION

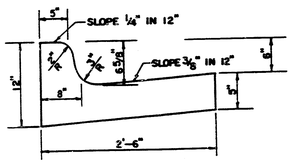


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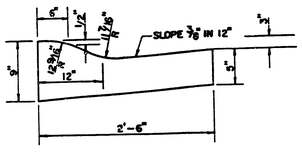


	DISTANCE FROM CENTERLINE (LT. & RT.)											
	0'	2'	4'	6'	7.5'	10'	12'	13'	15'	15.5'	15.67'	16.17'
A: TOP OF CURBS TO TOP OF SURFACE LIFT	0.10	0.14	0.21	0.27	0.32	0.39	0.46	0.49	—	—	—	—
B: TOP OF CURBS TO TOP OF UPPER BASE LIFT	0.27	0.31	0.38	0.44	0.49	0.56	0.63	0.66	—	—	—	—
C: TOP OF CURBS TO TOP 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

COMBINED CURB & GUTTER



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.

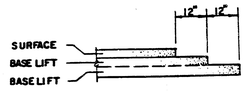
3) A TACK COAT OF EMULSIFIED ASPHALT (SC-1H OR CSS-1H) SHALL BE APPLIED AT AN APPROXIMATE RATE OF 0.05 GALLONS PER SQUARE YARD BETWEEN EACH LIFT OF ASPHALTIC MATERIAL.

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

472-76-245-81328-000-000-001

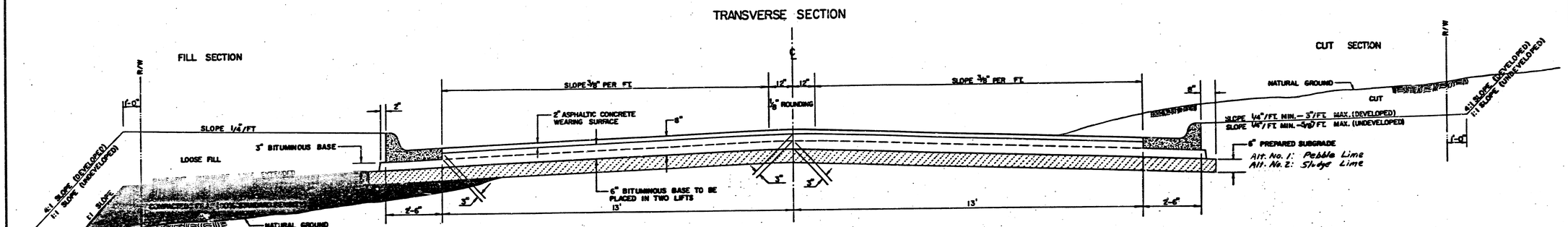
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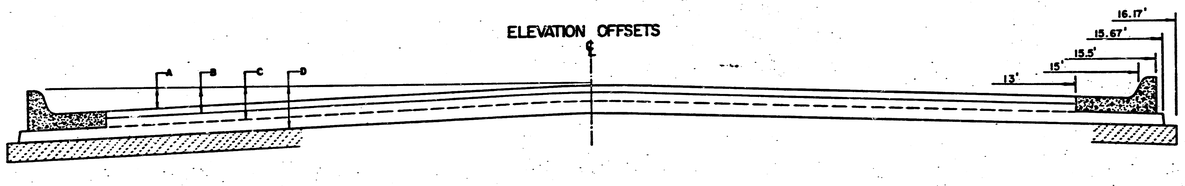
TYPICAL 31' PAVEMENT DETAILS

(33rd St. N.)

TRANSVERSE SECTION

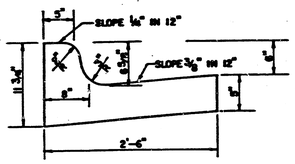


ELEVATION OFFSETS

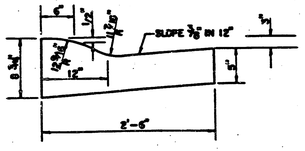


	DISTANCE FROM CENTERLINE (LT. & RT.)											
	0'	2'	4'	6'	7.5'	10'	12'	15'	15'	15.5'	15.67'	16.17'
A: TOP OF CURBS TO TOP OF SURFACE LIFT	.10	.14	.21	.27	.32	.39	.46	.45	——	——	——	——
B: TOP OF CURBS TO TOP OF UPPER BASE LIFT	.27	.31	.37	.44	.48	.56	.62	.65	——	——	——	——
C: TOP OF CURBS TO TOP OF LOWER BASE LIFT	.52	.56	.62	.69	.73	.81	.87	.90	.97	.98	.99	——
D: TOP OF CURBS TO TOP OF SUBGRADE	.77	.81	.87	.94	.98	1.06	1.12	1.15	1.22	1.23	1.24	1.25

COMBINED CURB & GUTTER



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 2" 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.

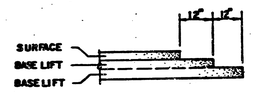
3) A TACK COAT OF EMULSIFIED ASPHALT (SC-1H OR CSS-1H) SHALL BE APPLIED AT AN APPROXIMATE RATE OF 0.05 GALLONS PER SQUARE YARD BETWEEN EACH LIFT OF ASPHALTIC MATERIAL.

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 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 8" ASPHALTIC CONCRETE (6" BITUMINOUS BASE).

8 INCH RESIDENTIAL ASPHALTIC CONCRETE PAVEMENT WITH 6 INCH BITUMINOUS BASE

CITY OF WICHITA, KANSAS

PROJECT NUMBER

472-76-245-81326-000-000-001 3/12

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B.M. 130.34 SE corner Porch @ 236 W. 32nd St. N.

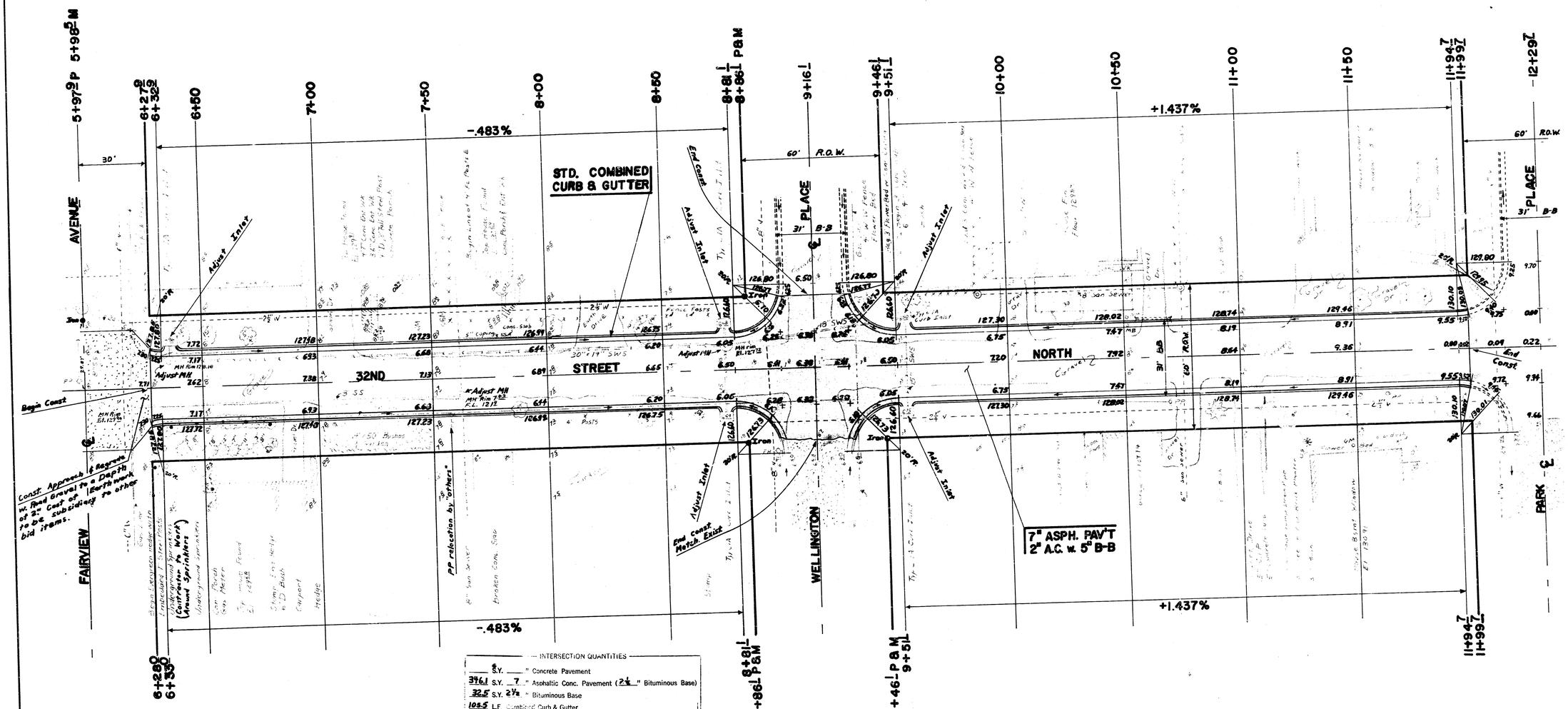
B.M. 130.80 RR Spk. W. face PP @ S.E. Corner Park Place & 32nd St.

B.M. 126.90 "+" on S-end return, S.W. corner 32nd & Wellington Place

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 LICENSED PROFESSIONAL ENGINEER IN ACCORDANCE WITH STATE LAWS

N

SCALE 1" = 20'



INTERSECTION QUANTITIES

____ S.Y. ____" Concrete Pavement	
346.1 S.Y. 7" Asphaltic Conc. Pavement (2½" Bituminous Base)	
32.5 S.Y. 2½" Bituminous Base	
105.5 L.F. Combined Curb & Gutter	
____ L.F. Integral Curb	
____ S.F. & Wheelchair Ramp	
____ S.F. Walk	
200.9 C.Y. Excavation	
____ C.Y. Compacted Fill	
____ Lbs. Reinforcing Steel	
391.2 S.Y. Manipulation	
____ Tons Type or Cement	
____ S.Y. M.G. ____" Concrete & ____" Asphaltic Concrete Base	

Actual Excavation	3,037 C.Y.
+10%	304 C.Y.
Total	3,341 C.Y.
Manipulation	5808 S.Y.

ALL ASPHALT MAT REMOVED TO BE SUBSIDIARY TO EXCAVATION

ROBERT A. HARRINGTON LICENSED 9424 KANSAS PROFESSIONAL ENGINEER

32ND ST. N. - E.L. FAIRVIEW TO W.L. PARK PLACE

PROJECT NO. 472-76-245-81328-000-000-001

CITY OF WICHITA — CITY ENGINEER

LANDCO ENGINEERING — M. E. LINDEBAK — CONSULTANT ENGINEER

BOOK BR46 — DRAWN BY RH — DATE 6/84

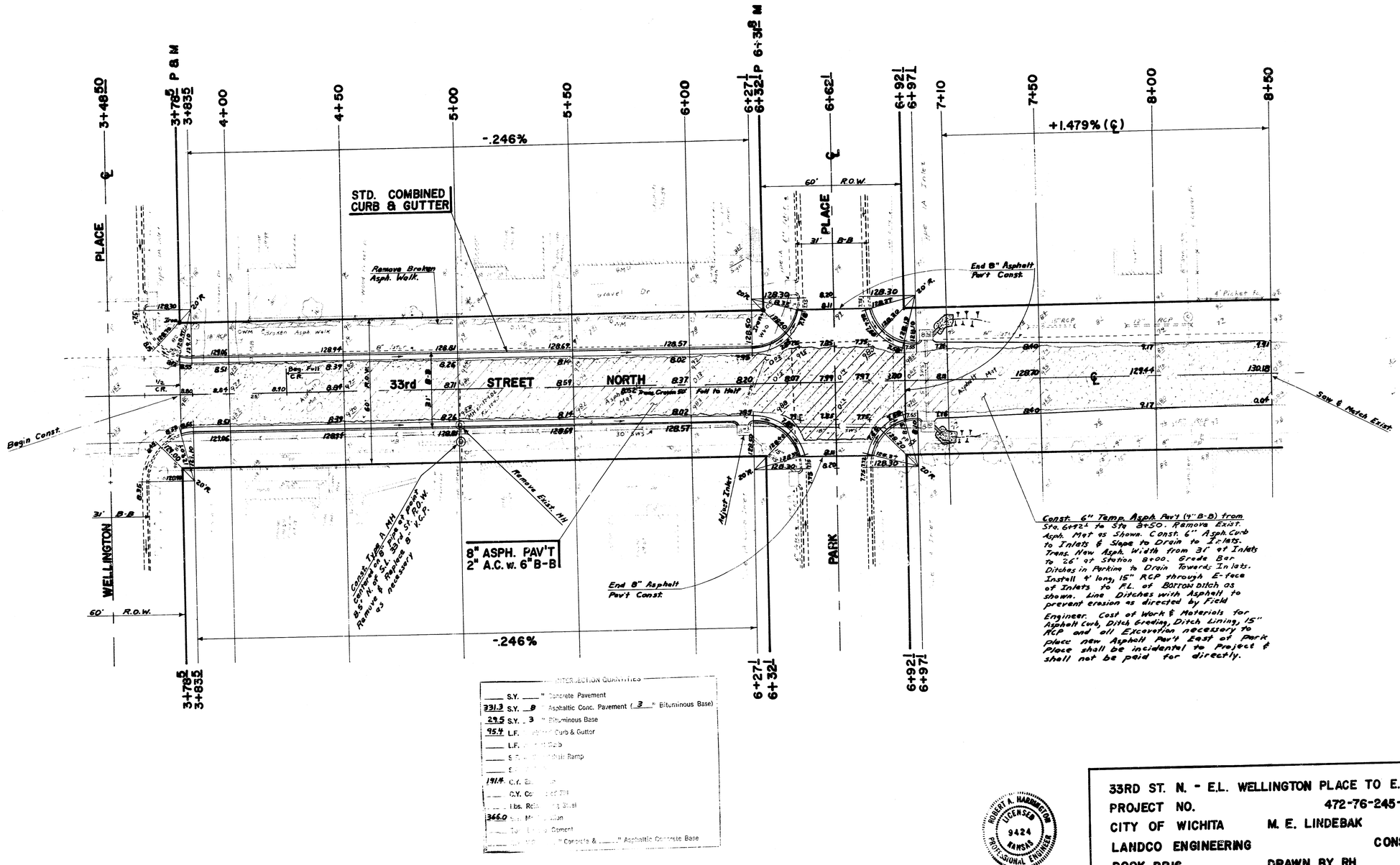
4/12

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BM. 129.30 RR Spk. NE Face PP SW corner Wellington Place & 33rd
BM. 129.58 RR Spk. W-Face PP SE corner Park Place & 33rd

N

SCALE 1" = 20'



INTERSECTION QUANTITIES

____ S.Y.	" Concrete Pavement
331.3 S.Y.	8 Asphaltic Conc. Pavement (3 " Bituminous Base)
29.5 S.Y.	3 " Bituminous Base
954 L.F.	Curb & Gutter
____ L.F.	Curb
____ S.F.	Walk Ramp
____ S.	
191.4 C.Y.	
____ C.Y.	Concrete
____ Lbs.	Reinforcing Steel
366.0	Manhole
____ Ton	Cement
____	" Concrete & ____" Asphaltic Concrete Base

ROBERT A. HARRINGTON LICENSED 9424 KANSAS PROFESSIONAL ENGINEER

33RD ST. N. - E.L. WELLINGTON PLACE TO E.L. PARK PLACE
PROJECT NO. 472-76-245-81328-000-000-001
CITY OF WICHITA M. E. LINDEBAK CITY ENGINEER
LANDCO ENGINEERING CONSULTANT ENGINEER
BOOK BR16 DRAWN BY RH DATE 6/84

5/12

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B.M. 128.00 "+" at N-end return NE Corner Fairview & 34th St.
B.M. 131.34 Bridge Spk. N-face P.P. @ S.E. Corner Wellington Place & 34th St.
B.M. 131.01 R.R. Spk. E-face P.P.@ S.W. Corner Park Place & 34th St.

N

SCALE 1" = 20'

0+00 | 0+29.24 | 0+34.24 | 0+50 | 1+00 | 1+50 | 1+64.2 M | 2+00 | 2+50 | 2+85.81 | 2+90.81 | 3+20.81 | 3+50.81 P | 3+50.81 M | 3+55.81 | 4+00 | 4+50 | 4+77.61 P.V.I. | 5+00 | 5+50 | 5+99.41 | 6+04.41 P | 6+03.4 M | 6+34.41

+1.076% | +.452% | -.558 %

All costs associated with connecting Curb & Gutter to Inlet to be bid for Curb & Gutter Inlet Marked N.E. Exist. Inlet

60' R.O.W. — AVE. — 31' B-B — 60' R.O.W. — PLACE — 31' B-B — 60' R.O.W. — PLACE — 31' B-B — 60' R.O.W.

7" ASPH. PAV'T 2" A.C. w. 5" B-B

7" ASPH. PAV'T 2" A.C. w. 5" B-B

Adjust Inlet — Begin Const. Saw & Match Exist. — Remove Temp. Asph. Mat'l — Adjust MH — Adjust Inlet — 8" San Sewer — Adjust MH — 34TH ST. — Adjust MH — 24" SWS 50' Trans. Crown as Shown — End Const. — Begin Const. — Adjust MH — NORTH — End Const.

FAIRVIEW — WELLINGTON — PARK

STD. COMBINED CB. & GUTTER

PP to be relocated by "others"

STD. COMBINED CB. & GUTTER

All costs associated with connecting Curb & Gutter to Inlet to be bid for Curb & Gutter Inlet Marked N.E. Exist. Inlet

+1.017% | +.328% | -.328%

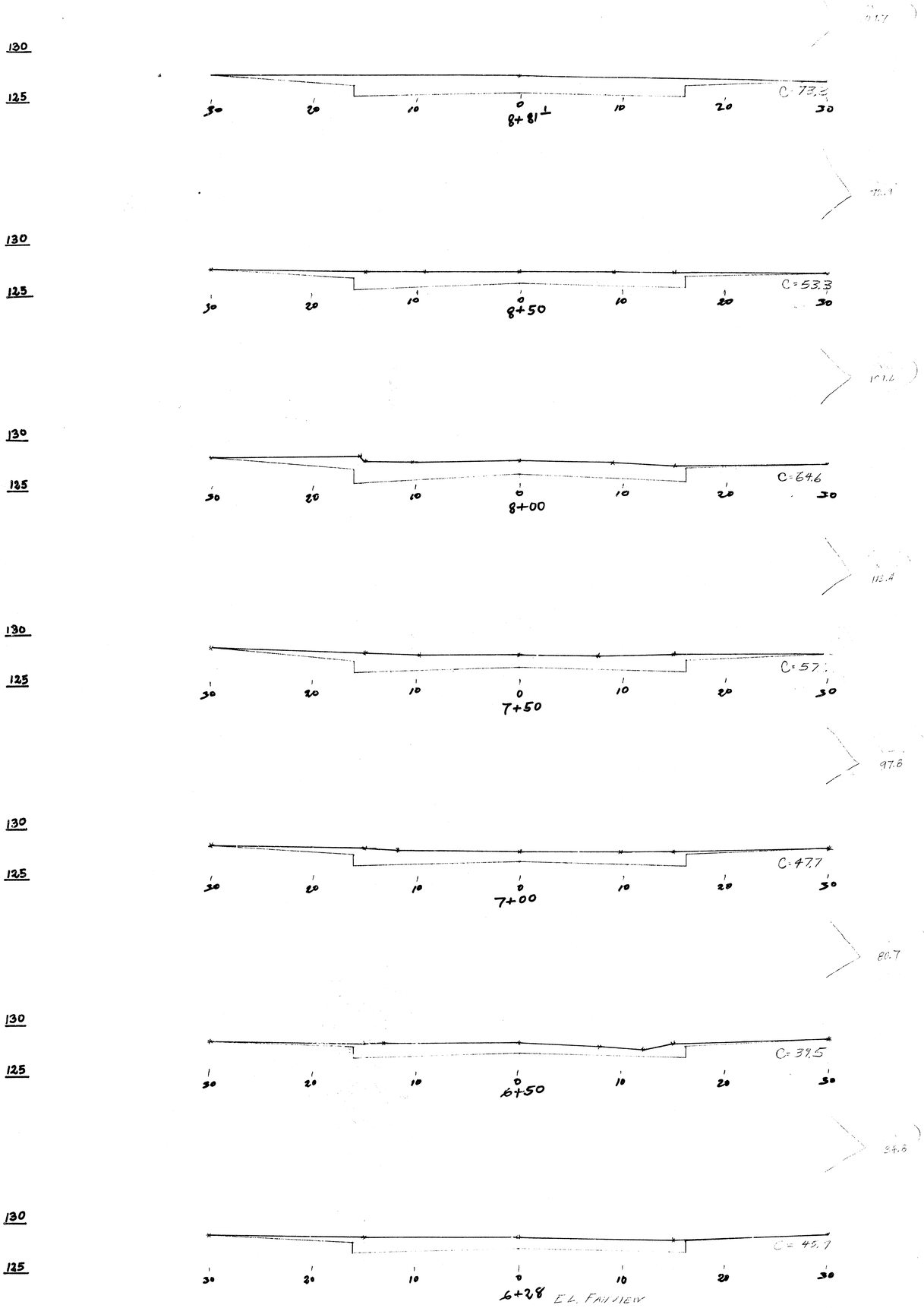
0+30.05 | 0+35.05 | 2+85.81 | 2+90.81 | M3+50.2 | P3+50.81 | 3+55.81 | 4+77.61 | 5+99.41 | P6+04.41 | M6+04.0

ROBERT A. HARRINGTON LICENSED 9424 KANSAS PROFESSIONAL ENGINEER

34TH ST. N. - E.L. FAIRVIEW TO W.L. WELLINGTON PLACE
34TH ST. N. - E.L. WELLINGTON PLACE TO W.L. PARK PLACE
PROJECT NO. 472-76-245-81328-000-000-001
CITY OF WICHITA M. E. LINDEBAK CITY ENGINEER
LANDCO ENGINEERING CONSULTANT ENGINEER
BOOK 3R48B DRAWN BY RH DATE 6/84

6/12

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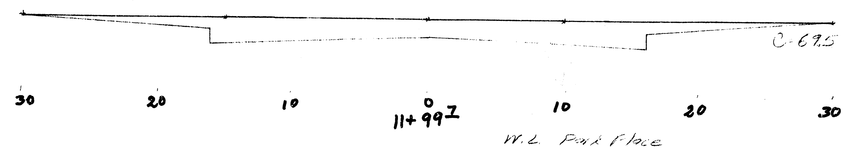
32nd St N - E.L. Fairview to W.L. Park Place
472-76-245-81328-000-000-001

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Total of All Sheets 8037.2 CY Exc

130

125

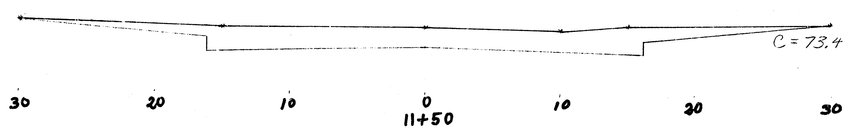


W.L. Park Place

121.8

130

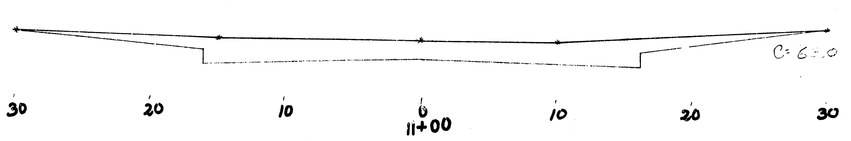
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120.1

130

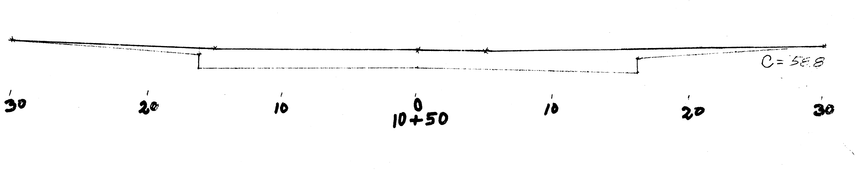
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117.4

130

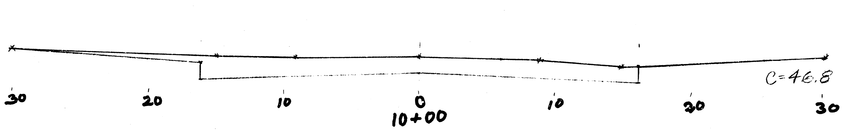
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97.8

130

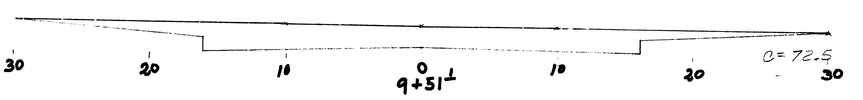
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108.0

130

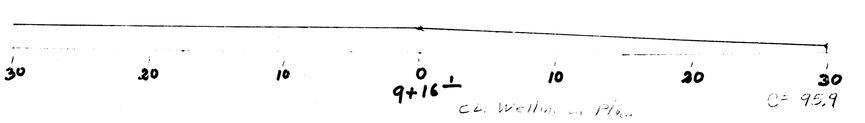
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109.1

130

125



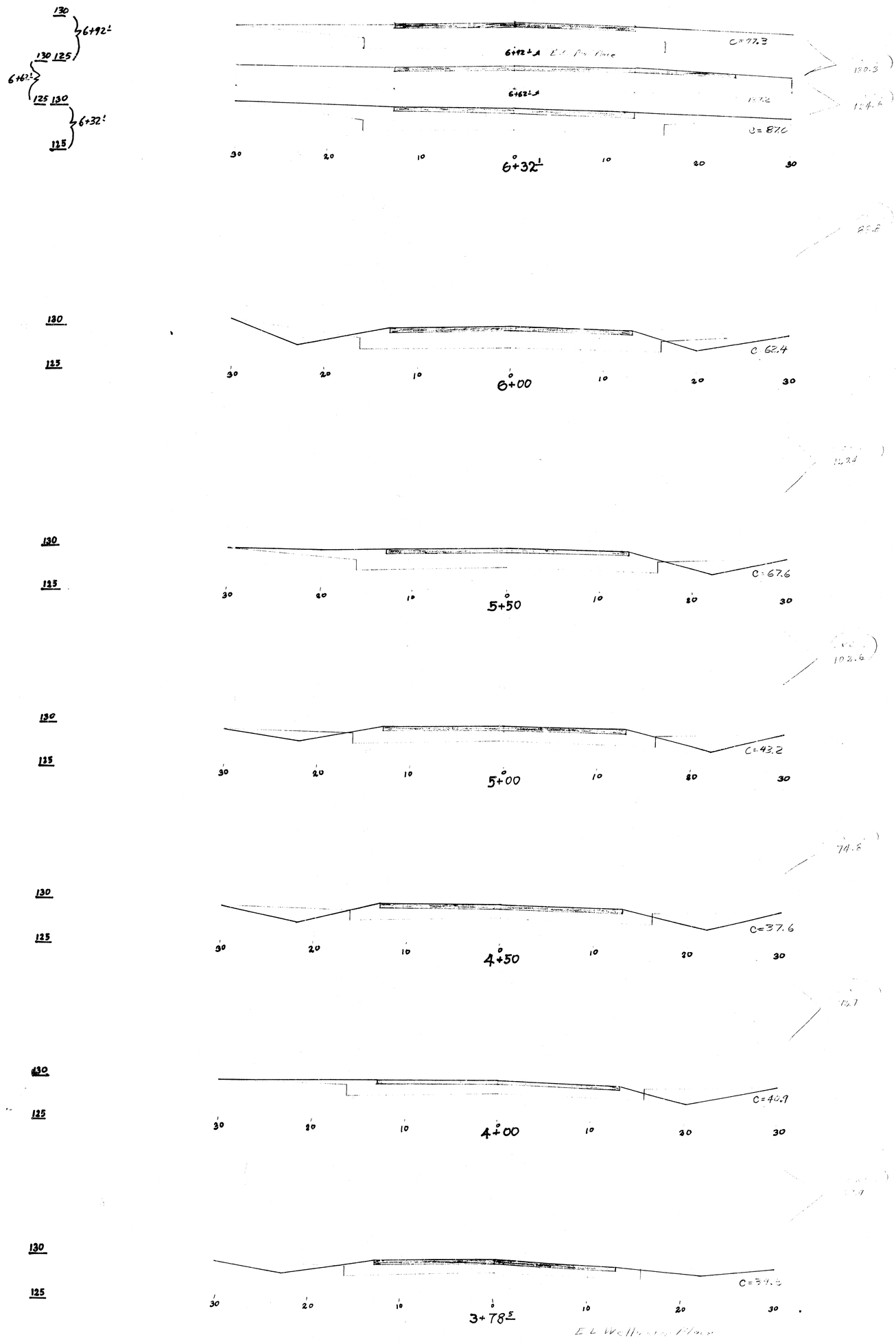
c.l. Wellington Place

32nd St. N.-E.L. Fairview
to W.L. Park Place
4-72-76-295-81328-000-000-001

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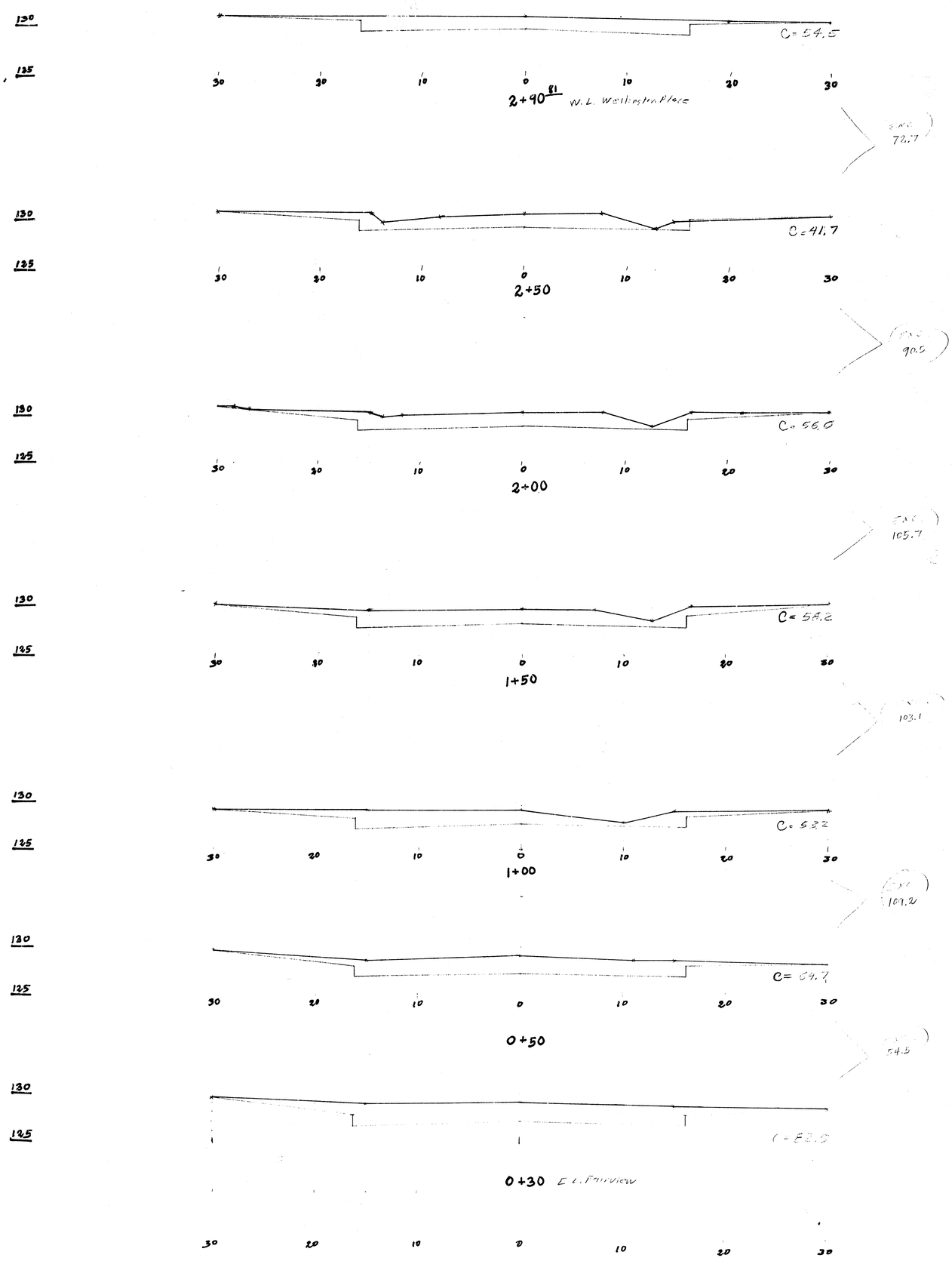
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33rd St. N. E.L. Wellington Place to E.L. Park Place
472-76-245-81328-000-000-001

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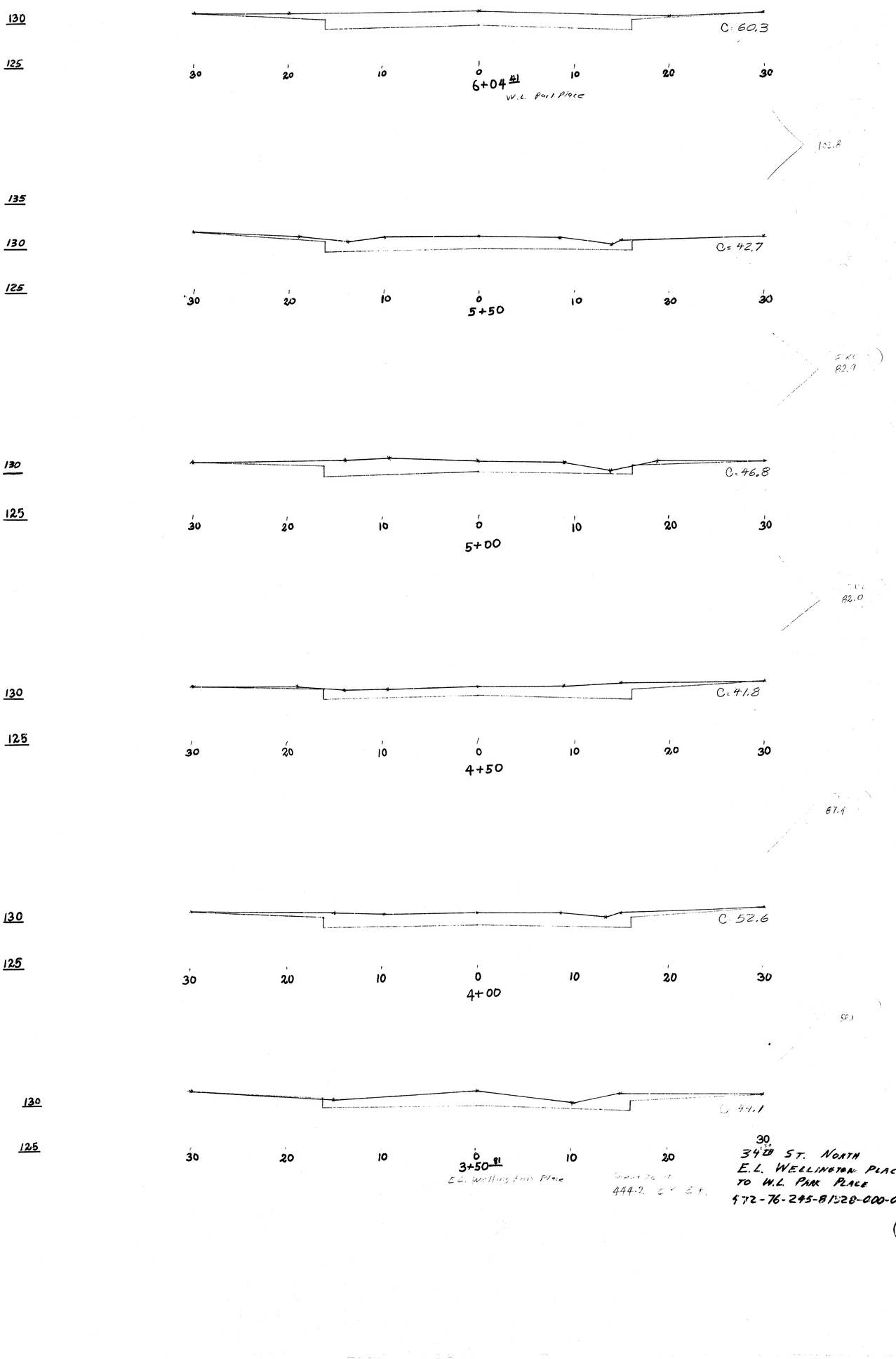


Sheet 1 of 2
535.7 W.L. E.L.

34TH ST. NORTH
E.L. FAIRVIEW TO
W.L. WELLINGTON PLACE
972-76-245-81328-000-000-001

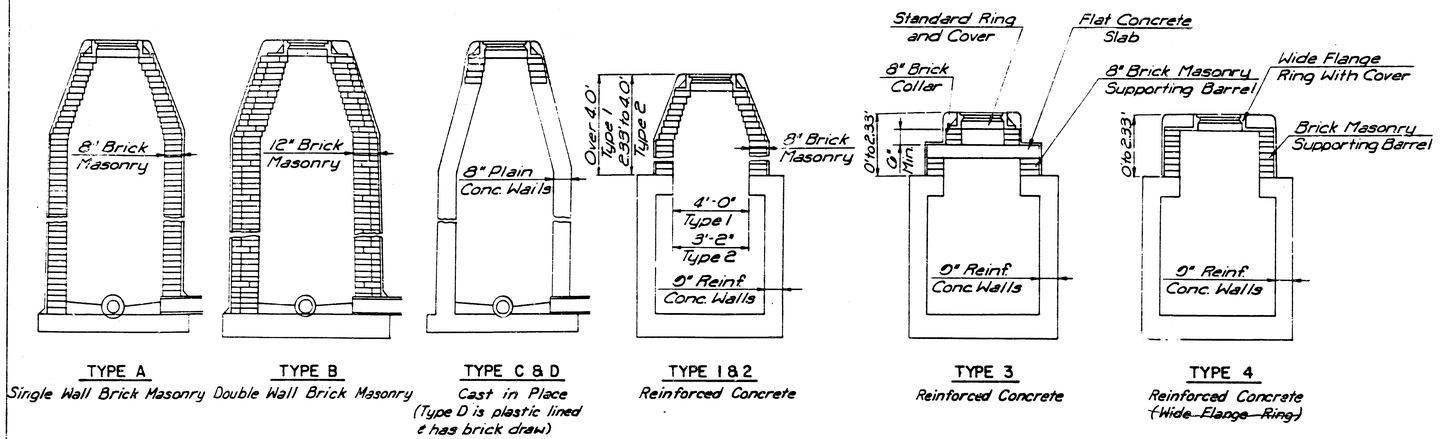
10/12

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12/fc



TYPE A
Single Wall Brick Masonry

TYPE B
Double Wall Brick Masonry

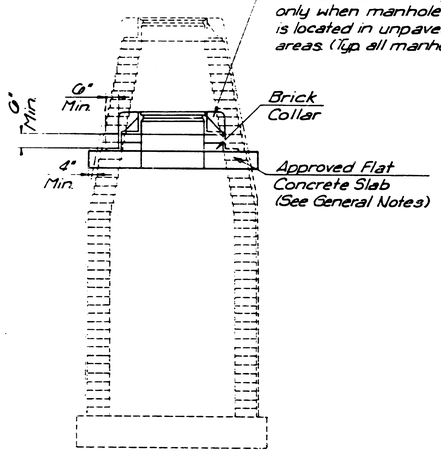
TYPE C & D
Cast in Place
(Type D is plastic lined & has brick draw)

TYPE 1 & 2
Reinforced Concrete

TYPE 3
Reinforced Concrete

TYPE 4
Reinforced Concrete
~~(Wide Flange Ring)~~

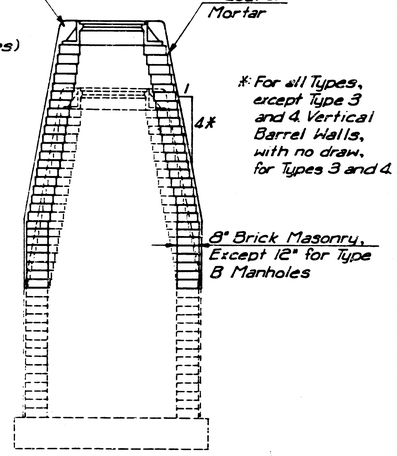
DEFINITION SKETCHES - CITY OF WICHITA STANDARD MANHOLES



DOWNWARD ADJUSTMENT (GREATER THAN 12")
All Types

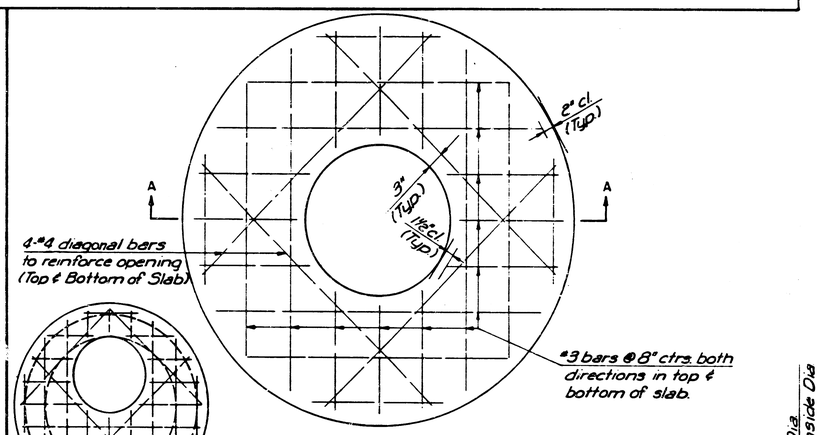
THE APPROPRIATE PORTIONS OF THE DRAW AND BARREL OF TYPE A, B, C, D, 1 AND 2 MANHOLES SHALL BE REMOVED. A FLAT CONCRETE SLAB SHALL BE PLACED AND THE RING AND COVER RESET. ALL WORK AND MATERIALS SHALL CONFORM TO THE DETAILS SHOWN AND THE GENERAL NOTES.

COURSES OF BRICK BARREL SUPPORTING THE WIDE FLANGE RING FOR TYPE 4 MANHOLES AND FLAT CONCRETE SLAB FOR TYPE 3 MANHOLES SHALL BE REMOVED AS NECESSARY PRIOR TO RESETTING THE WIDE FLANGE RING OR FLAT CONCRETE SLAB AND RING. ALL WORK AND MATERIALS SHALL CONFORM TO THE DETAILS SHOWN AND THE GENERAL NOTES.



UPWARD ADJUSTMENT (GREATER THAN 12")
All Types

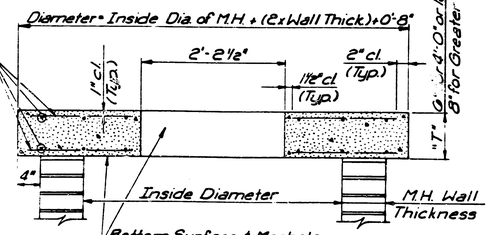
THE ENTIRE DRAW OF TYPES A, B, C, D, 1 AND 2 MANHOLES SHALL BE REMOVED. THE MANHOLE BARREL RAISED THE APPROPRIATE AMOUNT, A NEW DRAW CONSTRUCTED, AND THE RING AND COVER RESET. THE UPPER PORTION OF TYPE 3 MANHOLES SHALL BE REMOVED TO THE BOTTOM OF THE FLAT CONCRETE SLAB, THE BRICK MASONRY BARREL SUPPORTING THE SLAB SHALL BE RAISED THE APPROPRIATE AMOUNT, AND THE SLAB AND RING AND COVER RESET. THE WIDE FLANGE RING AND COVER OF TYPE 4 MANHOLES SHALL BE REMOVED, THE BRICK MASONRY BARREL SUPPORTING THE RING SHALL BE RAISED THE APPROPRIATE AMOUNT AND THE RING AND COVER RESET. ALL WORK REQUIRED FOR A GREATER THAN TWELVE INCH (12") UPWARD ADJUSTMENT OF ANY MANHOLE SHALL BE ACCOMPLISHED WITH BRICK MASONRY IN ACCORDANCE WITH THE DETAILS SHOWN AND THE GENERAL NOTES.



PLAN

* PLAN
ALTERNATE OPENING LOCATION

#3 bars @ 8" ctrs. both directions in top & bottom of slab.



SECTION A-A

*: To be used only if necessary to keep ring and cover from conflicting with curb or combined curb and gutter. Flat concrete slab shall be rotated on existing manhole to position ring and cover in pavement or behind curb.

Bottom Surface of Manhole opening to be plastic lined when Slab is Constructed for sanitary sewer manhole.

FLAT CONCRETE SLAB DETAILS

MANHOLE ADJUSTMENT DETAILS

P.N. 472-76-245-81328-000-000-001

CITY OF WICHITA, KANSAS
M. E. LINDEBAK - CITY ENGINEER

Designed by		Checked by	
Drawn by		Date	JOB No.

12/12

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