SHEET NO.	TOTAL SHEETS
1	12

CITY OF WICHITA, KANSAS
MICHAEL E. LINDEBAK, P.E., CITY ENGINEER
STREET IMPROVEMENTS

BELLWOOD - FROM THE E.L. OF KEITH TO THE S.L. OF LOT 12, BLOCK 5, AND THE S.L. OF LOT 17, BLOCK 6.

BELLWOOD COURT - FROM THE N.L. OF BELLWOOD TO AND INCLUDING CUL-DE-SAC SERVING LOTS 19 THROUGH 23, BLOCK 6.

IN

STERLING FARMS - PHASE 5A
CITY OF WICHITA PROJECT NO. 472-76-245-82103-000-000-001
INDEX NO.761718

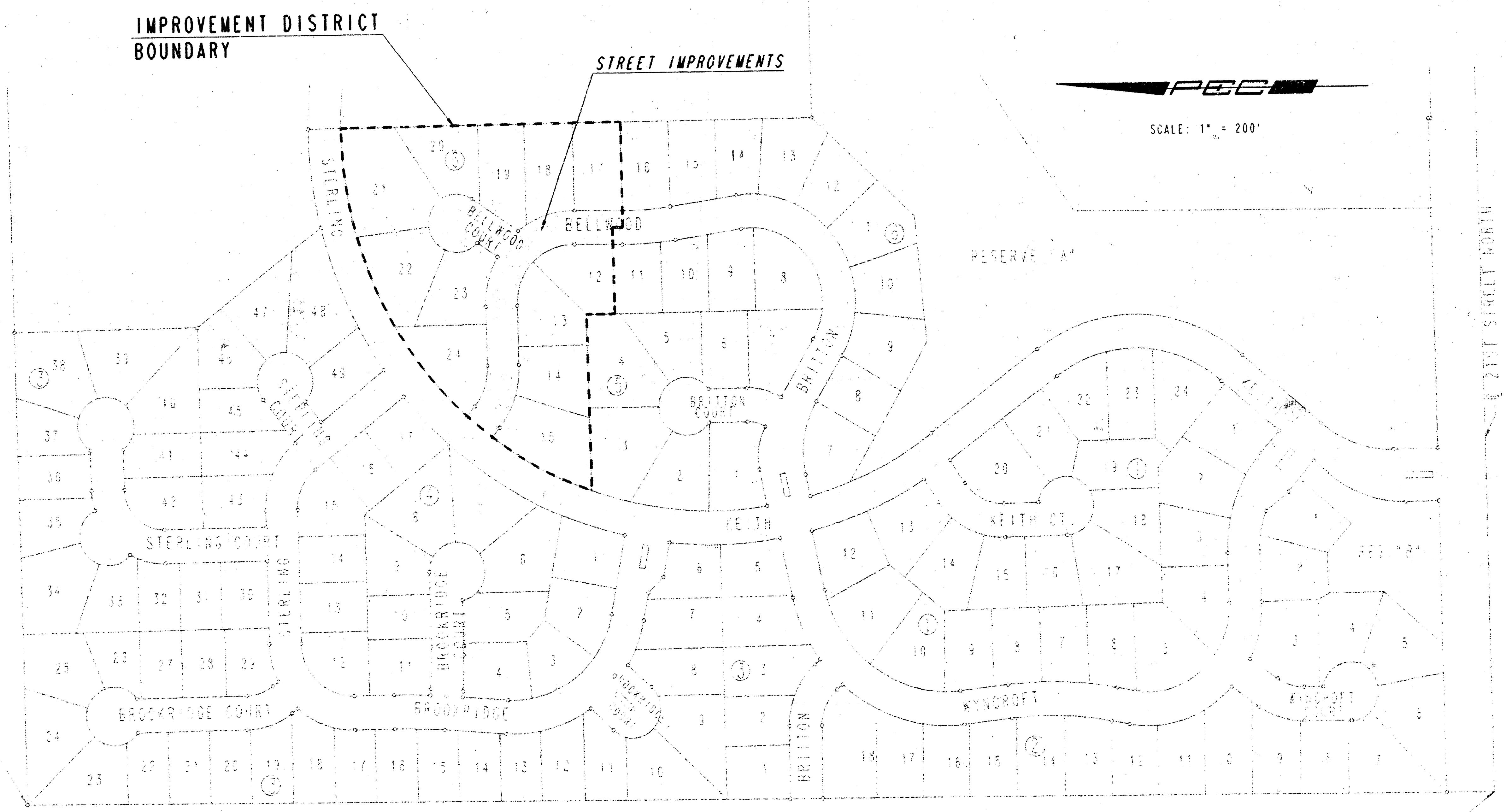
INDEX OF SHEETS

1. TITLE SHEET
2. PLAT
3.-4. TYPICAL SECTIONS
5.-6. PAVING PLANS - BELLWOOD
7. PAVING PLAN - BELLWOOD COURT
8. VALLEY GUTTER DETAILS
9.-12. CROSS SECTIONS

PROJECT SURVEY CONTROL

BENCH MARK: CHISELED "□" CENTER FACE CURB INLET NE CORNER OF KEITH STREET AND BELLWOOD. ELEV.=165.87

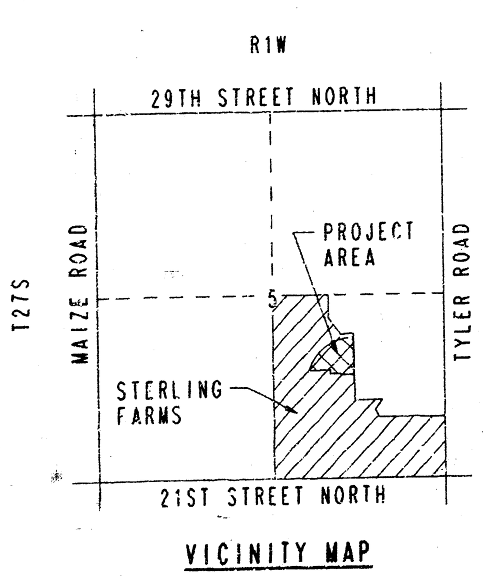
BENCH MARK: CHISELED "□" WEST TOP OF CURB BELLWOOD 12'± SOUTH OF P.C. LOT 11, BLOCK 5. ELEV.=166.05



EARTHWORK

EXCAVATION 398* CU. YDS.
COMPACTED FILL 223* CU. YDS.
BORROW EXCAVATION (CONTRACTOR FURNISHED) 508* CU. YDS.

PROJECT LENGTH = 643.65 LIN. FT.
* THESE QUANTITIES COMPUTED USING BASE BID - ALTERNATE 1 CONFIGURATION.



VICINITY MAP

DRAWING NAME: 32-93134 TITLE
LOCATION: DA #1138
CENTER COORDINATES:
ROTATION ANGLE:
DATE LAST WORKED ON: APR.01, 1993
DWAINE DUNN

GENERAL NOTES

UNDERGROUND UTILITY SERVICE LINES AND OVERHEAD UTILITY POLE LINES ARE TO BE ADJUSTED AS NECESSARY BY OTHERS PRIOR TO CONSTRUCTION UNLESS THE PLANS SPECIFICALLY CALL FOR THEIR ADJUSTMENT BY THE CONTRACTOR. EXISTING UTILITIES AND THEIR LOCATION, AS SHOWN ON THE PLANS, REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS UTILITY COMPANIES AND IS EITHER FROM COMPANY RECORD DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND EXISTING UTILITIES WITHIN THE RIGHT-OF-WAY WHICH DO NOT CONFLICT WITH PROPOSED CONSTRUCTION.

TREES AND SHRUBS IN PUBLIC RIGHT-OF-WAY WHICH ARE IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE REMOVED BY THE CONTRACTOR WITH THE ENGINEER'S APPROVAL. TREES AND SHRUBS WHICH ARE NOT IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE SAVED AND PROTECTED FROM DAMAGE.

RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES SHALL BE DISPOSED OF ON SITES TO BE PROVIDED BY THE CONTRACTOR AND APPROVED AS NOTED BELOW

ALL DISPOSAL SITES MUST BE APPROVED BY THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT. MATERIAL EITHER STOCKPILED OR DISPOSED OF IN A FLOOD PLAIN WOULD REQUIRE A KANSAS STATE BOARD OF AGRICULTURE PERMIT. ANY MATERIAL DUMPED IN WATERS OF THE UNITED STATES OR WETLANDS IS SUBJECT TO U.S. CORPS OF ENGINEERS PERMITTING REGULATIONS. ANY MATERIAL BURIED OR STOCKPILED BEYOND APPROVED CONSTRUCTION LIMITS WOULD REQUIRE ADDITIONAL ARCHEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATION.

CONTRACTOR SHALL SATISFY HIMSELF OF SUBSURFACE CONDITIONS PRIOR TO CONSTRUCTION.

TEMPORARY SURFACING MATERIAL (ROCK, ASPHALT, ETC.) MAY HAVE BEEN PLACED WITHIN STREET RIGHTS-OF-WAY FOR HAUL ROADS AND TEMPORARY ACCESS. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS TO DETERMINE EXTENT, IF ANY, OF SUCH SURFACING. CONTRACTOR SHALL REMOVE SAID TEMPORARY SURFACING IN THE SAME MANNER AS NOTED ABOVE FOR RUBBLE. THIS REMOVAL SHALL BE <u>SUBSIDIARY</u> TO "EXCAVATION".

CONTRACTOR SHALL PROVIDE A MINIMUM FORTY-EIGHT (48) HOUR ADVANCE NOTICE (EXCLUDING WEEKENDS AND HOLIDAYS) PRIOR TO BEGINNING ANY EXCAVATION, TO KANSAS ONE-CALL SYSTEM, A UTILITY LOCATION SERVICE AT (316) 687-2470 TO REQUEST THE FOLLOWING UTILITY COMPANIES TO LOCATE ALL EXISTING LINES WITHIN THE PROJECT AREA: K.G.&E GAS, K.G.&E ELECTRIC, SOUTHWESTERN BELL TELEPHONE, MULTIMEDIA CABLEVISION, CITY OF WICHITA SEWER MAINTENANCE AND CITY OF WICHITA WATER DEPARTMENT.

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 IN ACCORDANCE WITH STATE LAWS.

THE WATER DEPARTMENT SHALL FIELD LOCATE WATER VALVES ONE TIME DURING CONSTRUCTION WHEN REQUESTED BY THE CONTRACTOR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PRESERVE SUCH FIELD LOCATIONS DURING THE CONSTRUCTION PROCESS. WATER VALVES, WATER VALVE BOXES OR FIRE HYDRANTS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.

THE CONTRACTOR SHALL ADJUST WATER VALVE BOXES AS DIRECTED BY THE ENGINEER. THIS WORK TO BE <u>SUBSIDIARY</u> TO OTHER BID ITEMS.

THIS PROJECT DOES NOT INCLUDE ANY PROVISIONS FOR CONSTRUCTION OF DRIVEWAYS.

THIS PROJECT INCLUDES ALTERNATE PAVEMENT TYPES. THE CONTRACTOR SHALL BID ALL ALTERNATE 1 AND ALTERNATE 2 BID ITEMS AND THE CITY ENGINEER SHALL THEN SPECIFY WHICH PAVEMENT TYPE IS TO BE USED FOR THIS PROJECT. THE ALTERNATE SELECTED BY THE CITY ENGINEER SHALL BE USED FOR THE ENTIRE PROJECT. CROSS SECTIONS AND EARTHWORK QUANTITIES CONTAINED HEREIN REFLECT ALTERNATE 1 CONFIGURATION. ANY DIFFERENCE IN EARTHWORK BETWEEN THE TWO ALTERNATES SHALL BE SUBSIDIARY TO SUBGRADE MANIPULATION.

MICHAEL W. BERRY LICENSED 9929 4/12/93 KANSAS PROFESSIONAL ENGINEER

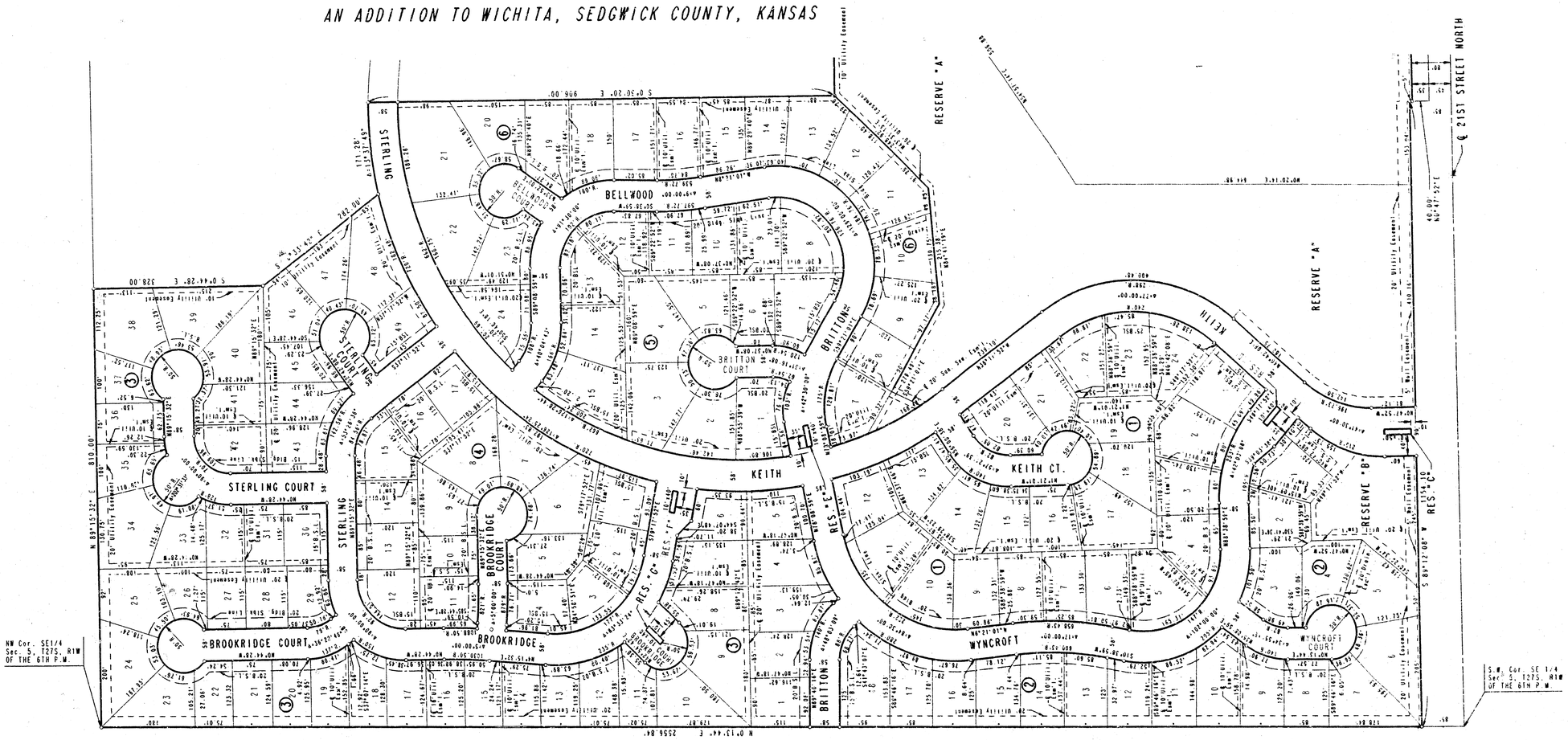
APRIL, 1993

PLANS PREPARED BY
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

PROJECT NO.	SHEET NO.	TOTAL SHEETS
472-76-245-82103-000-000-09'	2	12

STERLING FARMS

AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS



SCALE: 1"=100'

B.M. - CITY STANDARD G.M. DISC 38' WEST AND 90' SOUTH OF THE CENTERLINE INTERSECTION OF 21ST STREET NORTH AND TYLER ROAD.
ELEV.=1169.95 CITY DATUM
ELEV.=1357.35 M.S.L.

B.M. - CHIS. "O" AT S.W. CORNER TOP HEADWALL RCBC WEST OF KEITH.
ELEV.=1161.28 CITY DATUM
ELEV.=1348.46 M.S.L.

PLAT	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		

DRAWING NAME: 32-93134 PLAT
LOCATION: 04 #1125
CENTER COORDINATES:
ROTATION ANGLE:
DATE LAST WORKED ON:
DWAINE DUNN

STERLING FARMS - PHASE 5A

PLAT

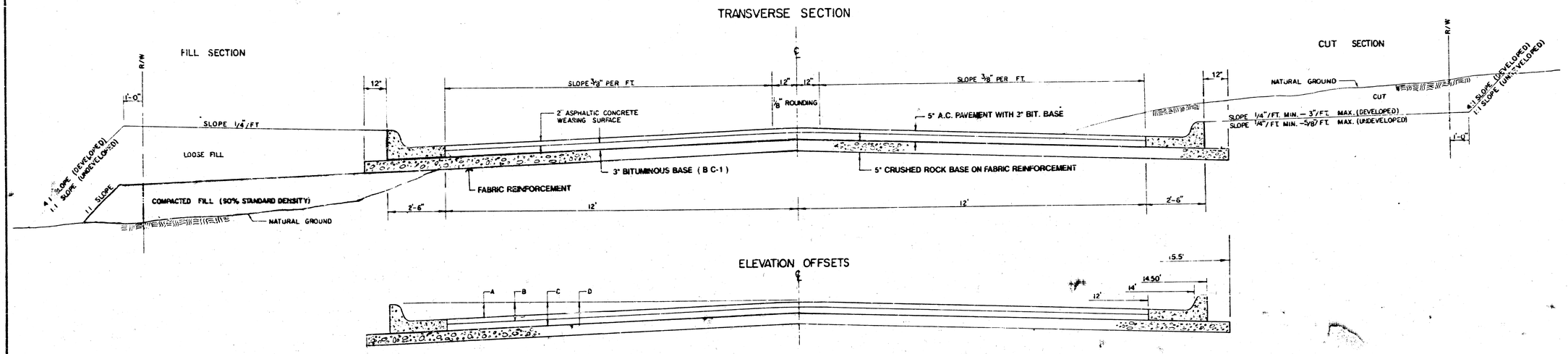
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by		Checked by	
Drawn by	DLP	Date APR., 1993	Job No 93134

2

TYPICAL 29' PAVEMENT DETAILS

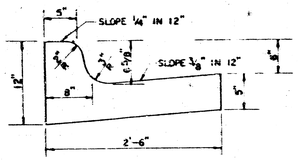
TRANSVERSE SECTION



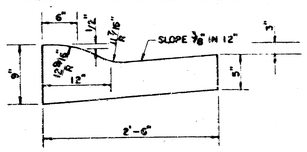
ELEVATION OFFSETS

	DISTANCE FROM CENTERLINE (LT. & RT.)											
	0'	2'	4'	6'	7'	8'	10'	12'	14'	14.5'		
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 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 ROCK BASE	0.55	0.60	0.66	0.72	0.75	0.78	0.85	0.91	0.98	1.00		—
D. TOP OF CURBS TO TOP OF SUBGRADE												

COMBINED CURB & GUTTER



ROLL TYPE COMBINED CURB & GUTTER



CRUSHED ROCK GRADATION REQUIREMENTS

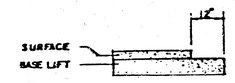
PERCENT OF AGGREGATE RETAINED

2-1/2"	0
3/4"	20-60
#4	58-80
#40	80-94
#200	90-98

ROCK QUALITY SHALL CONFORM TO THE REQUIREMENTS SPECIFIED BY THE KDOT 1990 EDITION STANDARD SPECIFICATION SUBSECTION 1102 FOR DURABILITY CLASS 1.

FABRIC BASE REINFORCEMENT SHALL BE 8 X 1100 BY TENSAR CORP. OR LBG201 BY TENAX CORPORATION OR APPROVED EQUAL. FABRIC BASE REINFORCEMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURES RECOMMENDATIONS. ~~CRUSHED ROCK SHALL BE UNIFORMLY GRADED FROM 1-1/2" MAXIMUM SIZE TO NOT MORE THAN 10% PASSING A #200 SIEVE.~~ ROCK QUALITY SHALL BE THE SAME AS SPECIFIED FOR COARSE AGGREGATE FOR CONCRETE MIXES.

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 5" ASPHALTIC CONCRETE PAVEMENT (3" BITUMINOUS BASE)

GENERAL NOTES

ROCK BASE IS TO BE COMPACTED AND SMOOTHED WITH A STEEL FACED ROLLER PRIOR TO PLACEMENT OF ASPHALT. TACK COAT WILL NOT BE APPLIED TO ROCK BASE.

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.

BITUMINOUS BASE AND ASPHALTIC CONCRETE WEARING SURFACE SHALL BE PLACED WITH A LAYDOWN MACHINE HAVING AUTOMATIC CONTROLS FOR LINE AND GRADE.

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.

REVISED 1-3-92 JKB

BASE BID – ALTERNATE 1

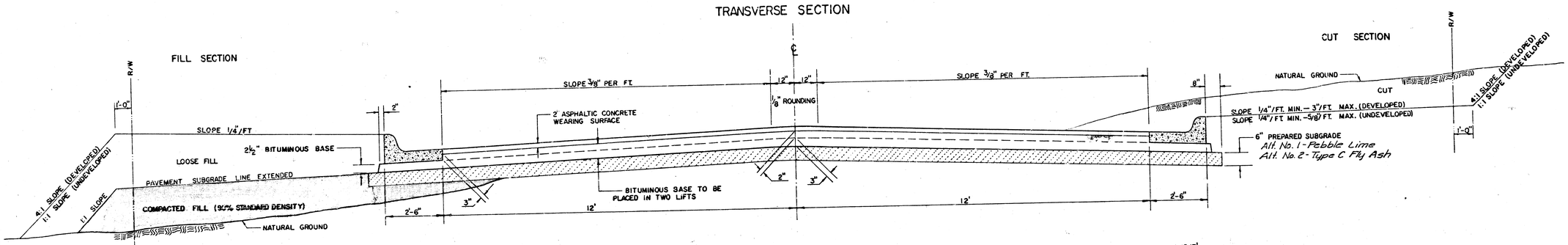
5" RESIDENTIAL ASPHALTIC CONCRETE PAVEMENT WITH CRUSHED ROCK BASE ON FABRIC REINFORCEMENT

C.O.W. Proj. No. 472 76 285 82103 000 000 001

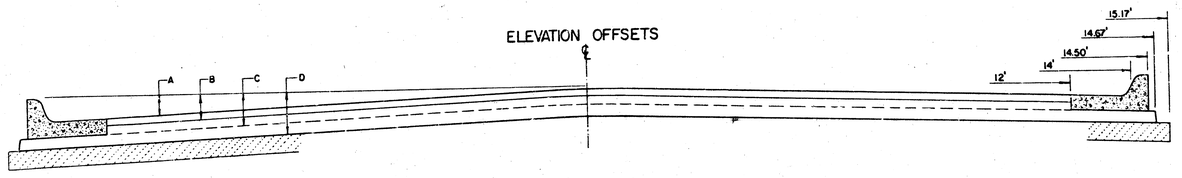
10 1 5 33

TYPICAL 29' PAVEMENT DETAILS

TRANSVERSE SECTION

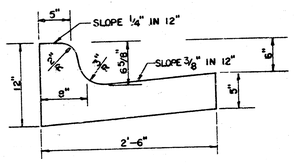


ELEVATION OFFSETS

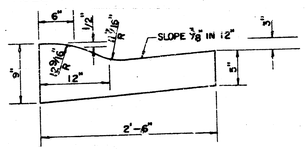


	DISTANCE FROM CENTERLINE (LT. & RT.)											
	0'	2'	4'	6'	7'	8'	10'	12'	14'	14.5'	14.67'	15.17'
A: TOP OF CURBS TO TOP OF SURFACE LIFT	0.13	0.18	0.24	0.30	0.33	0.36	0.43	0.49	—	—	—	—
B: TOP OF CURBS TO TOP OF UPPER BASE LIFT	0.30	0.35	0.41	0.47	0.50	0.53	0.60	0.66	—	—	—	—
C: TOP OF CURBS TO TOP OF LOWER BASE LIFT	0.47	0.52	0.60	0.68	0.71	0.75	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

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.

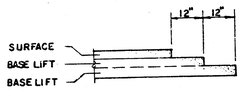
3) A TACK COAT OF EMULSIFIED ASPHALT (SC-1H OR CSS-1H) SHALL BE APPLIED AT AN APPROXIMATE RATE OF 0.05 GALLONS PER SQUARE YARD BETWEEN EACH LIFT OF ASPHALTIC MATERIAL.

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).

BASE BID – ALTERNATE 2

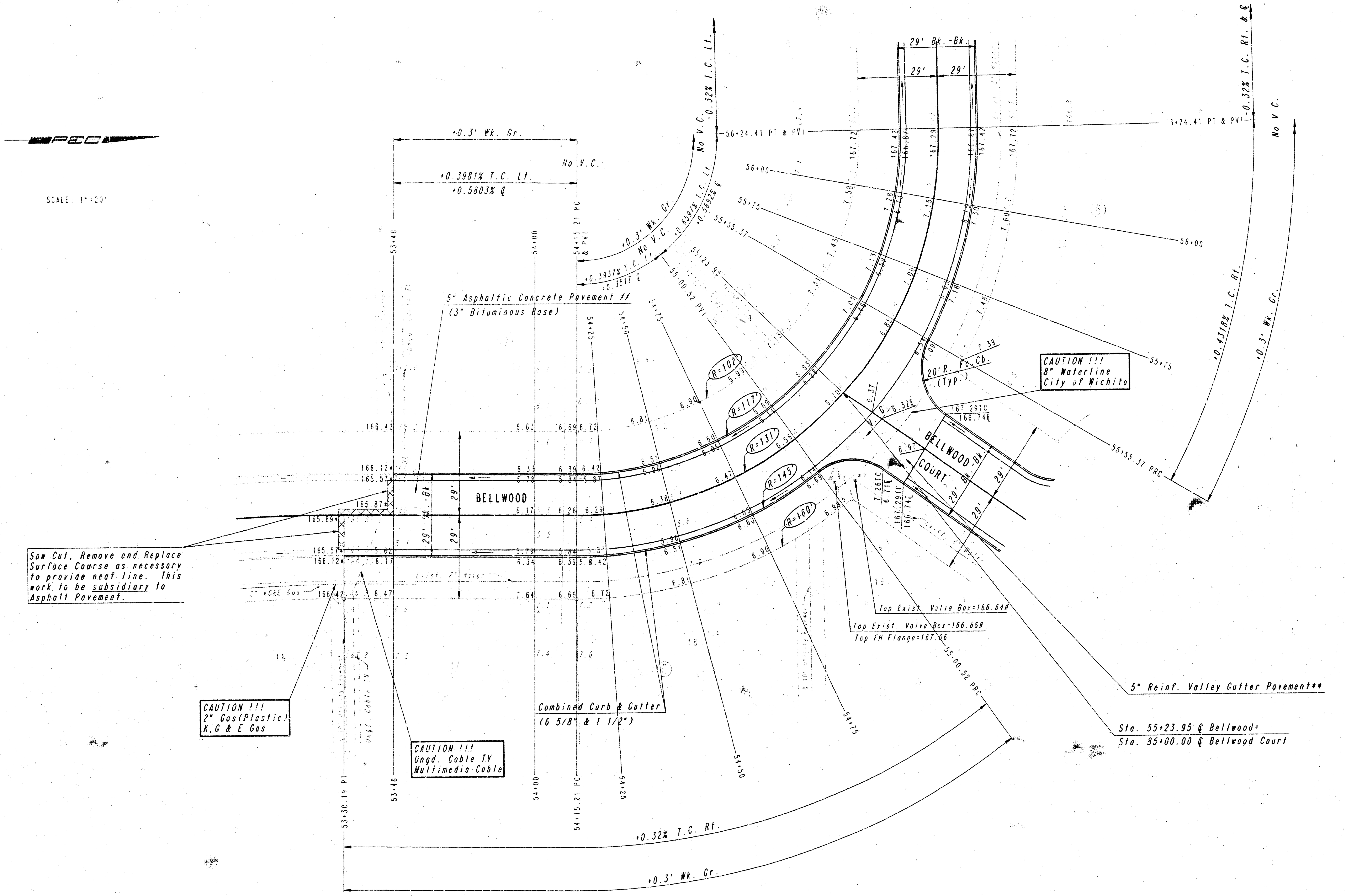
7 INCH RESIDENTIAL ASPHALTIC CONCRETE PAVEMENT WITH 5 INCH BITUMINOUS BASE

CITY OF WICHITA, KANSAS

PROJECT NUMBER

472 76 245 82103 000 000 001

PROJECT NO.	SHEET NO.	TOTAL SHEETS
472-76-245-82103-000-000-001	5	12



WATER VALVE BOX ELEVATIONS				
STREET	STATION	OFFSET	EXISTING ELEVATION	PROPOSED ELEVATION
BELLWOOD	55+02	21' Rt.	166.66	166.9
BELLWOOD	55+07	24.5' Rt.	166.64	167.2

℄ CURVE DATA

Δ=91°30'00" D=43°44'14" R=131.00' L=209.20' T=134.38' E=56.74'

CURVE DATA BASED ON ℄ RADIUS Δ/2=45°45'00"

℄ STATION	℄ ARC LENGTH	FACE CURB LENGTH		CHORD LENGTH		DEFLECTION ANGLE	℄ TOTAL DEFLECTION
		LEFT CURB	RIGHT CURB	8' OFF LEFT FACE CURB	8' OFF RIGHT FACE CURB		
54+15.21	——	——	——	——	——	0°00'00"	0°00'00"
54+25	9.79'	8.75'	10.84'	8.14'	11.43'	2°08'28"	2°08'28"
54+50	25.00'	22.33'	27.67'	20.77'	29.15'	5°28'02"	7°36'30"
54+75	25.00'	22.33'	27.67'	20.77'	29.15'	5°28'02"	13°04'32"
55+00.52	25.52'	22.79'	28.25'	21.20'	29.76'	5°34'52"	18°39'23"
55+23.95	23.43'	20.93'	——	19.47'	——	5°07'26"	23°46'49"
55+55.37	31.42'	28.06'	——	26.08'	——	6°52'16"	30°39'06"
55+75	19.63'	17.53'	21.73'	16.32'	22.91'	4°17'34"	34°56'40"
56+00	25.00'	22.33'	27.67'	20.77'	29.15'	5°28'02"	40°24'42"
56+24.41	24.41'	21.80'	27.02'	20.28'	28.47'	5°20'18"	45°45'00"
TOTAL	209.20'	186.85'	170.55'				

Defl./ft.=13.121415 min.

INTERSECTION QUANTITIES

BELLWOOD/BELLWOOD COURT

- 76.49 S.Y. 5" Asphaltic Concrete Pavement (3" Bit. Base)
- 96.13 S.Y. 7" Reinforced Valley Gutter Pavement
- 53.38 L.F. Monolithic Edge Curb (6 5/8")
- 179.33 S.Y. 5" Crushed Rock Base

ADJUST WATER VALVE BOXES AS SHOWN IN TABLE ABOVE

* MATCH EXISTING

** 7" REINF. VALLEY GUTTER PAVEMENT (5" REINF. CONC. PAVT. W/ 2" BIT. BASE) FOR ALTERNATE 2 PAVEMENT.

// 7" ASPHALTIC CONCRETE PAVEMENT (5" BIT. BASE) FOR ALTERNATE 2 PAVEMENT

PLAN	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		

NOTE BOOK NO. ____

DRAWING NAME: 32-93134 BELLWOOD 1
LOCATION: D4 #1126
CENTER COORDINATES:
ROTATION ANGLE:
DATE LAST WORKED ON:
DWAINE DUNN

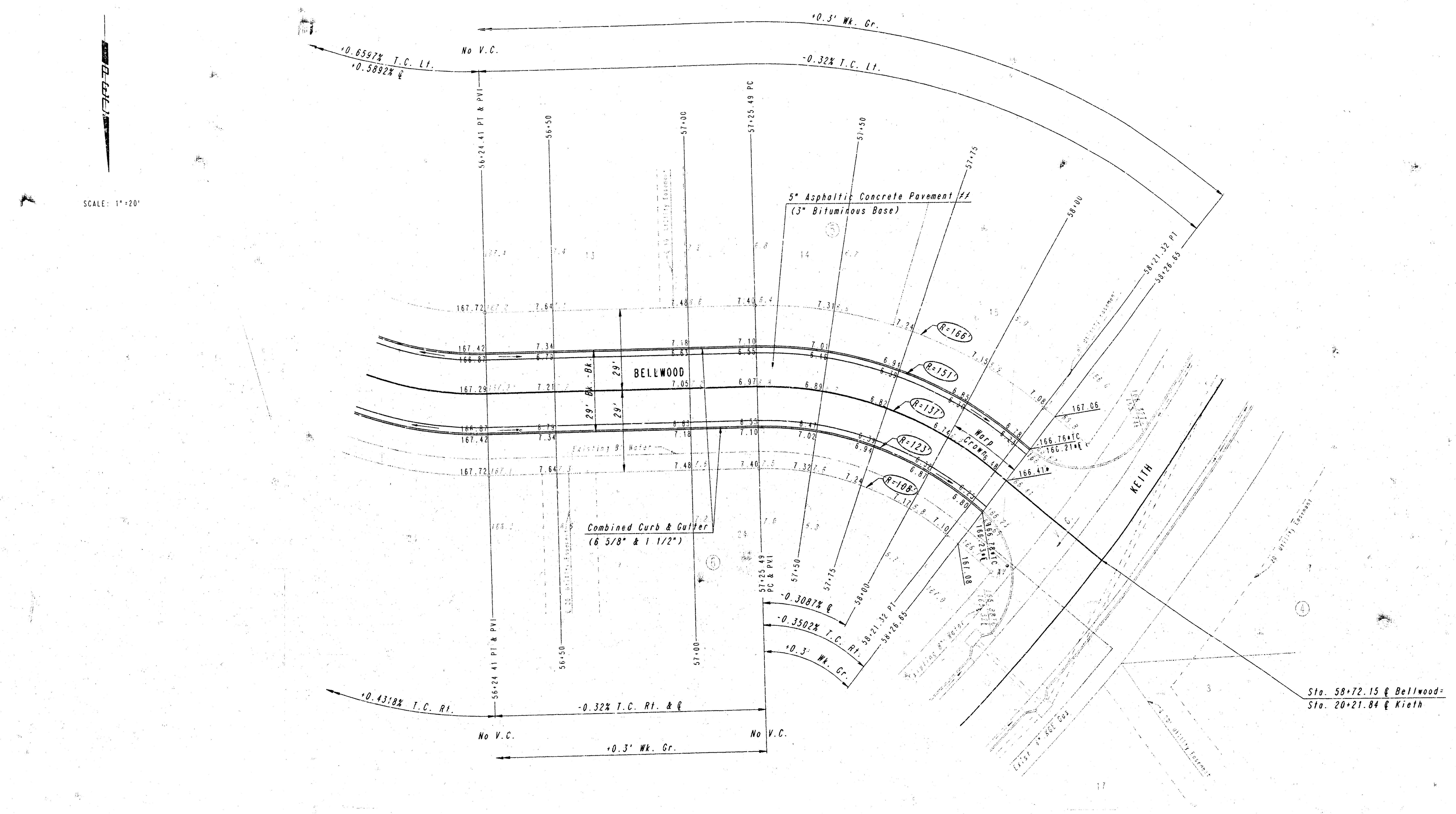
STERLING FARMS - PHASE 5A

BELLWOOD

STA. 53+30.19 TO STA. 56+24.41

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by	MWB, GDD	Checked by			
Drawn by	DEP	Date	APR, 1993	Job No.	93134



PLAN	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		

℄ CURVE DATA

Δ=40°04'43" D=41°49'18" R=137.00' L=95.83' T=49.97' E=8.83'

CURVE DATA BASED ON ℄ RADIUS Δ/2=20°02'21.5"

℄ STATION	℄ ARC LENGTH	FACE CURB LENGTH LEFT CURB	FACE CURB LENGTH RIGHT CURB	CHORD LENGTH 8' OFF LEFT FACE CURB	CHORD LENGTH 8' OFF RIGHT FACE CURB	DEFLECTION ANGLE	℄ TOTAL DEFLECTION
57+25.49	—	—	—	—	—	0°00'00"	0°00'00"
57+50	24.51'	27.02'	22.00'	28.41'	20.55'	5°07'31"	5°07'31"
57+75	25.00'	27.55'	22.45'	28.97'	20.96'	5°13'40"	10°21'11"
58+00	25.00'	27.55'	22.45'	28.97'	20.96'	5°13'40"	15°34'52"
58+21.32	21.32'	23.51'	19.14'	24.72'	17.88'	4°27'30"	20°02'21.5"
TOTAL	95.83'	105.63'	86.04'				

Defl./ft.=12.546784 min.

* MATCH EXISTING

\## 7" ASPHALTIC CONCRETE PAVEMENT (5" BIT. BASE) FOR ALTERNATE 2 PAVEMENT

DRAWING NAME: 32-93134 BELLWOOD 2
LOCATION: D4 #1127
CENTER COORDINATES:
ROTATION ANGLE:
DATE LAST WORKED ON:

DWAINE DUNN

STERLING FARMS - PHASE 5A

BELLWOOD

STA. 56+24.41 TO STA. 58+72.15

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by	MWB, GDD	Checked by			
Drawn by	DEP	Date	APR., 1993	Job No.	93134

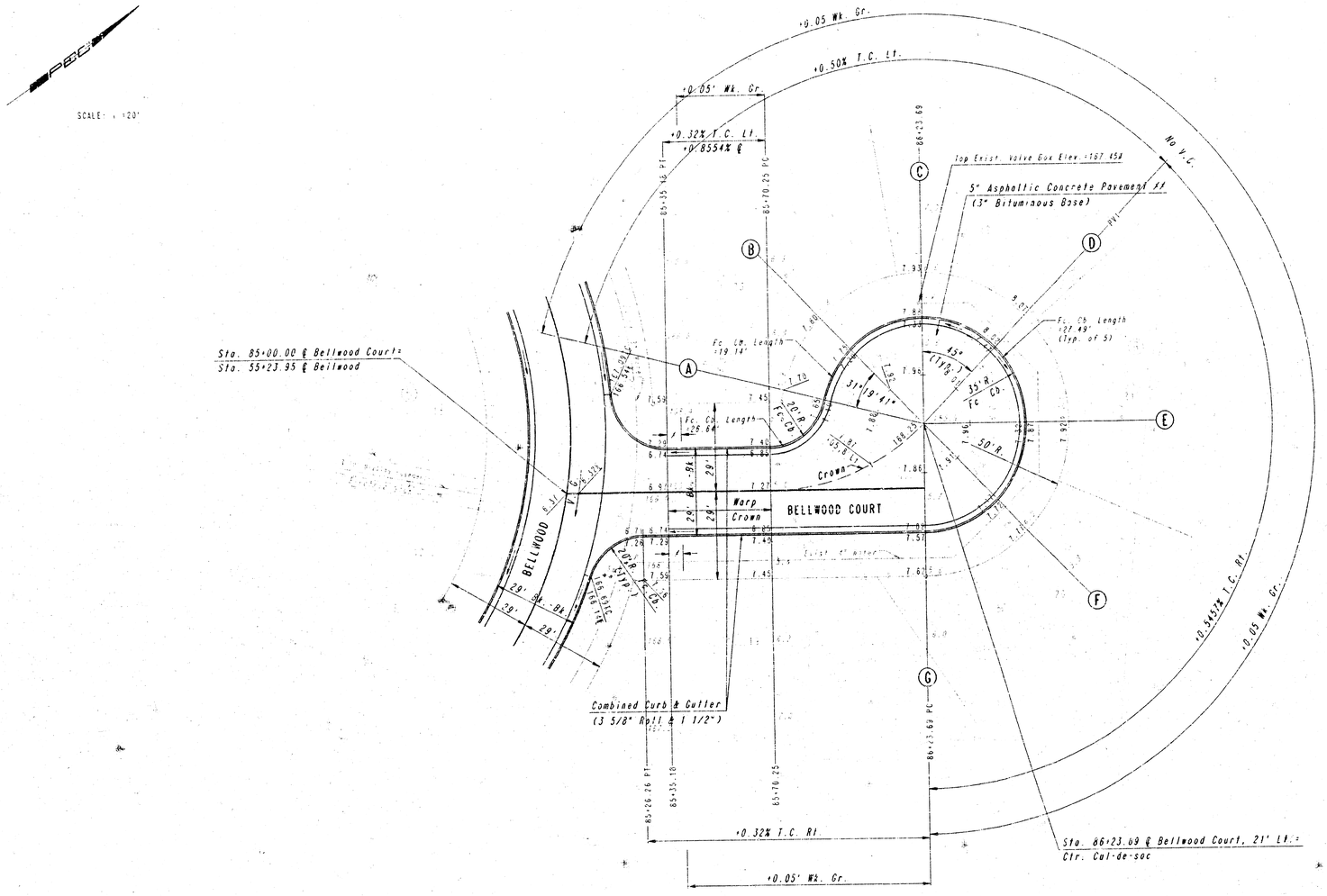
6

PROJECT NO.	SHEET NO.	TOTAL SHEETS
472-76-245-82103-000 000-031	7	12

WATER VALVE BOX ELEVATIONS

STREET	STATION	OFFSET	EXISTING ELEVATION	PROPOSED ELEVATION
BELLWOOD COURT	86+22.5	61' Lt.	167.45	167.7

SCALE: 1" = 20'



PLAN	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	ALIGNMENT CHECKED	
	RT. OF WAY CHECKED	

DRAWING NAME: 32-93134 BELLWOOD CT
LOCATION OR #: #1139
COORDINATE SYSTEM: ASSUMED
ROTATION ANGLE: 0
DATE LAST WORKED ON: 4/93
DRAWN BY: DWAYNE DUNN

\# ADJUST WATER VALVE BOXES AS SHOWN IN TABLE ABOVE

/ 5" TRANSITION FROM MONOLITHIC EDGE CURB (6 5/8") TO COMBINED CURB AND GUTTER (3 5/8" ROLL & 1 1/2") TO BE BID AND PAID FOR AS "COMBINED CURB AND GUTTER (3 5/8" ROLL & 1 1/2")".

// 7" ASPHALTIC CONCRETE PAVEMENT (5"BIT. BASE) FOR ALTERNATE 2 PAVEMENT

NOTE: THIS STREET TO BE CONSTRUCTED WITH ROLL-TYPE CURB. TOP OF CURB ELEVATIONS GIVEN ARE FOR FULL HEIGHT CURB.

STERLING FARMS - PHASE 5A

BELLWOOD COURT

STA. 85+00.00 TO STA. 86+23.69

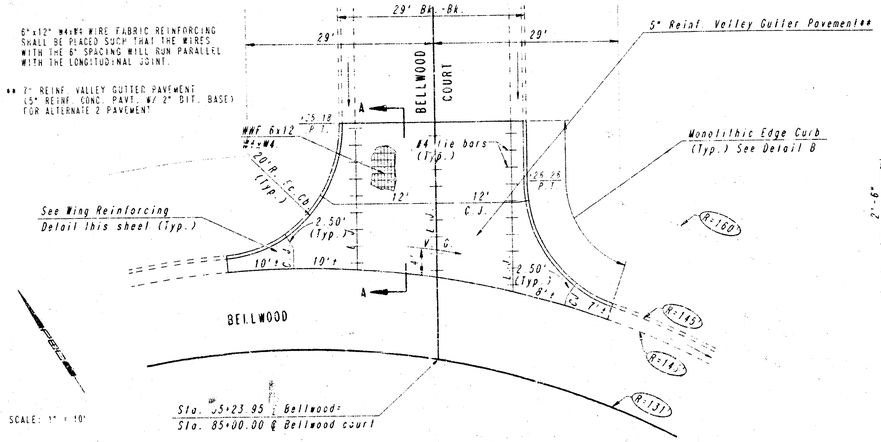
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by	MWB, GDD	Checked by		
Drawn by	DEP	Date APR., 1993	Job No.	93134

PROJECT NO.	SHEET NO.	TOTAL SHEETS
472-76-245-82103-000-003-001	8	12

6"x12" W4xW4 WIRE FABRIC REINFORCING SHALL BE PLACED SUCH THAT THE WIRES WITH THE 6" SPACING WILL RUN PARALLEL WITH THE LONGITUDINAL JOINT.

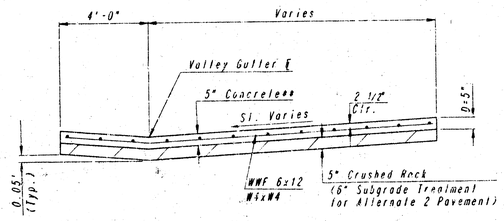
** 7" REINF. VALLEY GUTTER PAVEMENT (5" REINF. CONC. PAVT. w/ 2" BIT. BASE) FOR ALTERNATE 2 PAVEMENT



SCALE: 1" = 10'

PLAN

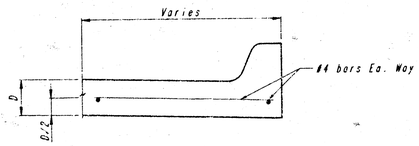
REINFORCED VALLEY GUTTER



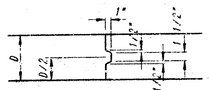
SECTION A-A

NOTE: OMIT REINFORCING MESH AT ALL JOINTS

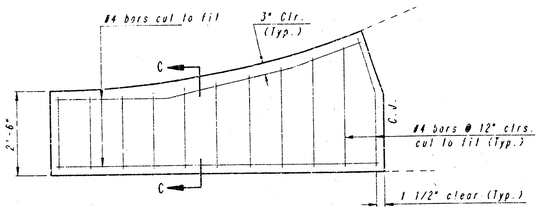
NOTE: ALL CONCRETE VALLEY GUTTER REINFORCEMENT SHALL BE ADEQUATELY SUPPORTED BY BAR CHAIRS IN THE REQUIRED POSITION UNLESS APPROVED OTHERWISE BY THE ENGINEER



SECTION C-C

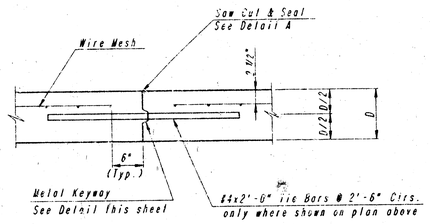


KEYWAY DETAIL

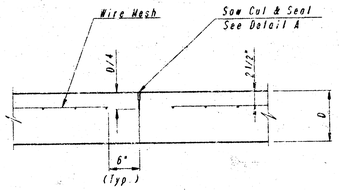


WING REINFORCING DETAIL

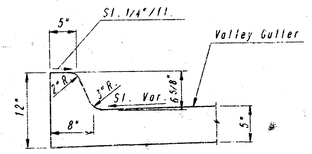
NOTE: OMIT WIRE FABRIC REINFORCING IN THIS SECTION



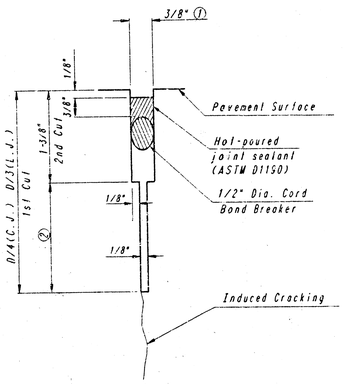
LONGITUDINAL CONSTRUCTION JOINT DETAIL
REINFORCED PAVEMENT
(TRANSVERSE SECTION)
(ALTERNATE L.J.)



CONTRACTION JOINT DETAIL
REINFORCED PAVEMENT
(C.J.)



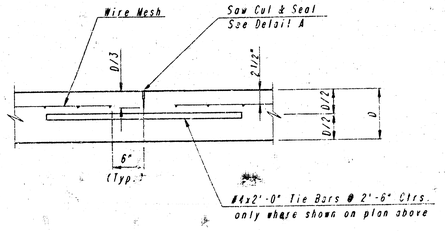
DETAIL B



DETAIL A

① To be accomplished in 2 cuts for Longitudinal Joints & Contraction Joints. Initial cut to be 3/8" wide.

② Eliminate bottom of cut when metal keyway is used as part of Longitudinal or Transverse Construction Joint and at Doweled Construction Joint Locations.



LONGITUDINAL JOINT DETAIL
REINFORCED PAVEMENT
(TRANSVERSE SECTION)
(L.J.)

STERLING FARMS - PHASE 5A

VALLEY GUTTER DETAILS

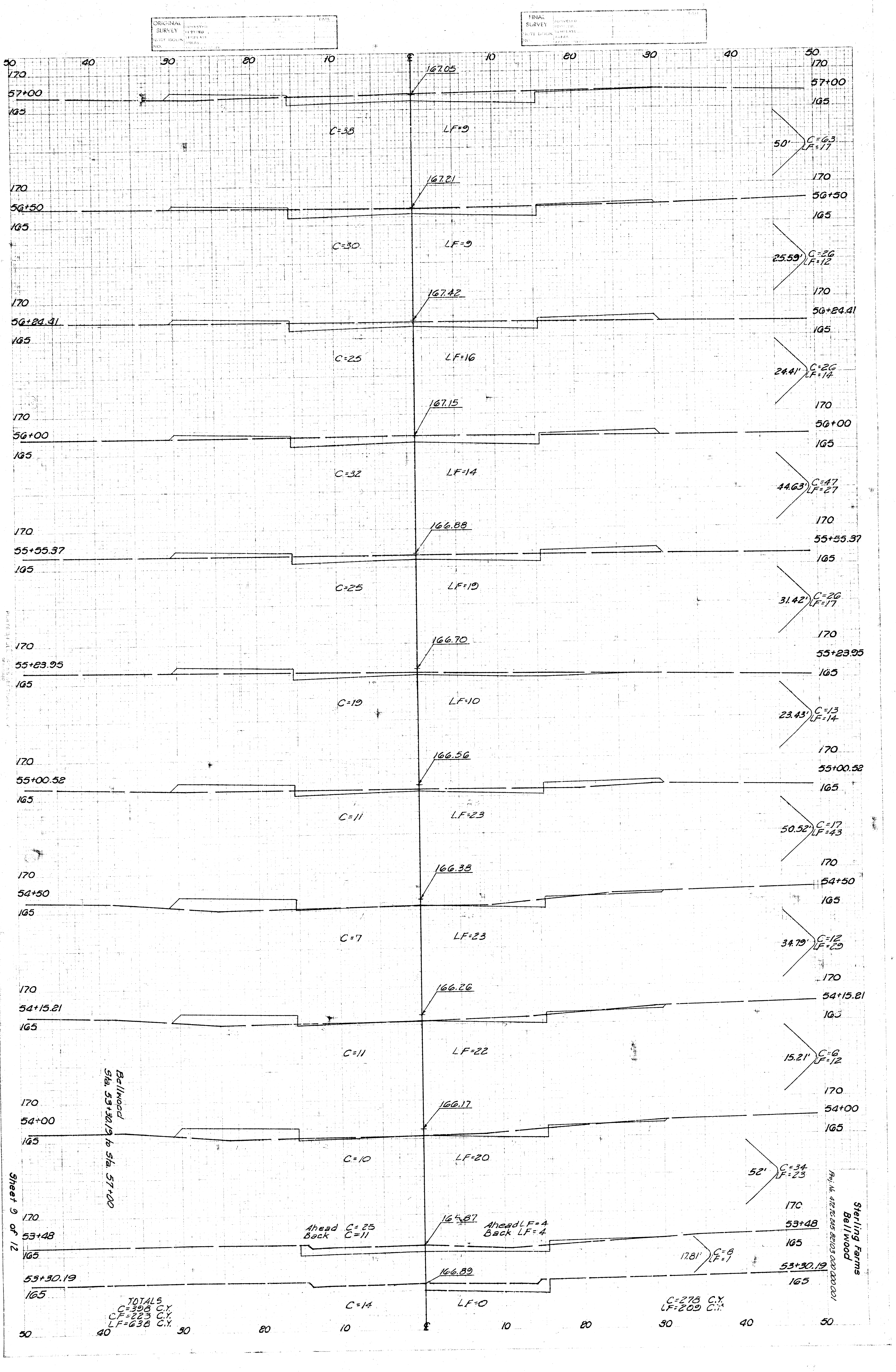
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by	MWB, GDD	Checked by	
Drawn by	DEP	Date APR., 1995	Job No. 95134

8

PLAN: DESIGNED / DRAWN / TRACED / CHECKED / NOTE BOOK / ALIGNMENT CHECKED / QTY. CHECKED / QTY. OF WAY CHECKED

DRAWING NAME: 32-95134 VAL GUT DTLS
CONTROLLING UNITS
ROTATION ANGLE=0
DATE LAST WORKED ON:
DWAINE DUNN


ORIGINAL SURVEY
FINAL SURVEY
Sterling Farms
Bellwood
Proj. No. 472 76 245 82103 000 000 001
57+00
167.05
C=38
LF=9
50'
C=63
LF=17
56+50
167.21
C=30
LF=9
25.59'
C=26
LF=12
56+24.41
167.42
C=25
LF=16
24.41'
C=26
LF=14
56+00
167.15
C=32
LF=14
44.63'
C=47
LF=27
55+55.37
166.88
C=25
LF=19
31.42'
C=26
LF=17
55+23.95
166.70
C=19
LF=10
23.43'
C=13
LF=14
55+00.52
166.56
C=11
LF=23
50.52'
C=17
LF=43
54+50
166.38
C=7
LF=23
34.79'
C=12
LF=29
54+15.21
166.26
C=11
LF=22
15.21'
C=6
LF=12
54+00
166.17
C=10
LF=20
52'
C=34
LF=23
53+48
Ahead C=25
Back C=11
Ahead LF=4
Back LF=4
17.81'
C=8
LF=1
53+30.19
166.89
C=14
LF=0
TOTALS
C=398 C.Y.
CF=223 C.Y.
LF=638 C.Y.
C=278 C.Y.
LF=209 C.Y.
Bellwood
Sta. 53+30.19 to Sta. 57+00
Sheet 9 of 12

ORIGINAL SURVEY — SURVEYED — DRAWN — TRACED — CHECKED — DATE

FINAL SURVEY — DRAWN — TRACED — CHECKED — DATE

50 40 30 80 10 ℄ 10 20 30 40 50

170 58+20.65 165 — 166.47 — C=26 LF=13 — 5.33' C=5 LF=3 — 170 58+80.65 165

170 58+81.32 165 — 166.48 — C=27 LF=19 — 21.32' C=18 LF=15 — 170 58+81.32 165

170 58+00 165 — 166.74 — C=19 LF=20 — 50' C=38 LF=27 — 170 58+00 165

170 57+50 165 — 166.89 — C=22 LF=9 — 24.51' C=24 LF=9 — 170 57+50 165

170 57+85.49 165 — 166.97 — C=30 LF=10 — 25.49' C=32 LF=9 — 170 57+85.49 165

C=117 C.Y.
LF=63 C.Y.

Bellwood
Sta. 57+25.49 to Sta. 58+26.65

Sterling Farms
Bellwood
Pol. No. 472 & 245 8203 000 00000

Sheet 10 of 12

50 40 30 80 10 ℄ 10 80 30 40 50

30 40 30 80 10 ℄ 10 80 30 40 50

170
80+00
165

Sta. 80+23.69
CF=9
LF=36

53.44'

CF=26
LF=59

170
85+70.85
165

167.27

CF=35
LF=46

Ahead CF=17
Ahead LF=24

35.07'

CF=36
LF=55

170
85+35.18
165

166.97

Bellwood Court
Sta. 85+26.26 to Sta. 85+70.25

C=1

CF=21
LF=38

8.92'

C=2
CF=3
LF=12

170
85+86.86
165

C=10

CF=0
LF=34

C=2 C.Y.
CF=65 C.Y.
LF=126 C.Y.

Sterling Farms
Bellwood Court
Proj. No. 472 & 385 8203000200201

Sheet 11 of 12

30 40 30 80 10 ℄ 10 80 30 40 50

0 10 20 30 40 50 60 70

168.25

170
G
165

CF=37 LF=36 CF=9 LF=36 CF=19 LF=43

170
F
165

CF=33 LF=32 CF=17 LF=39

170
E
165

CF=34 LF=29 CF=18 LF=38

170
D
165

C=0 CF=35 LF=30 C=1 CF=15 LF=35

170
C
165

C=1 CF=24 LF=25 CF=12 LF=38

170
B
165

C=0 CF=30 LF=35 CF=15 LF=31

168.25

170
A
165

CF=45 LF=34 CF=62 LF=16

C=1 C.Y.
CF=158 C.Y.
LF=240 C.Y.

0 10 20 30 40 50 60 70

Bellwood Court
Section A to Section G

498.24 S.F.
523.17 S.F.
14.50'
34.50'

346.86 S.F.
364.22 S.F.
14.50'

53.44'
241.63 S.F.
227.97 S.F.
15.50'

Sterling Farms
Bellwood Court
Proj. No. 412'16 285 0103 000 001

Sheet 18 of 25