

CITY OF WICHITA, KANSAS

MICHAEL E. LINDEBAK, P.E., CITY ENGINEER

STREET IMPROVEMENTS

FOR

STONEGATE ESTATES - PHASE III

SHEET NO.	TOTAL SHEETS
1	10

INDEX OF SHEETS

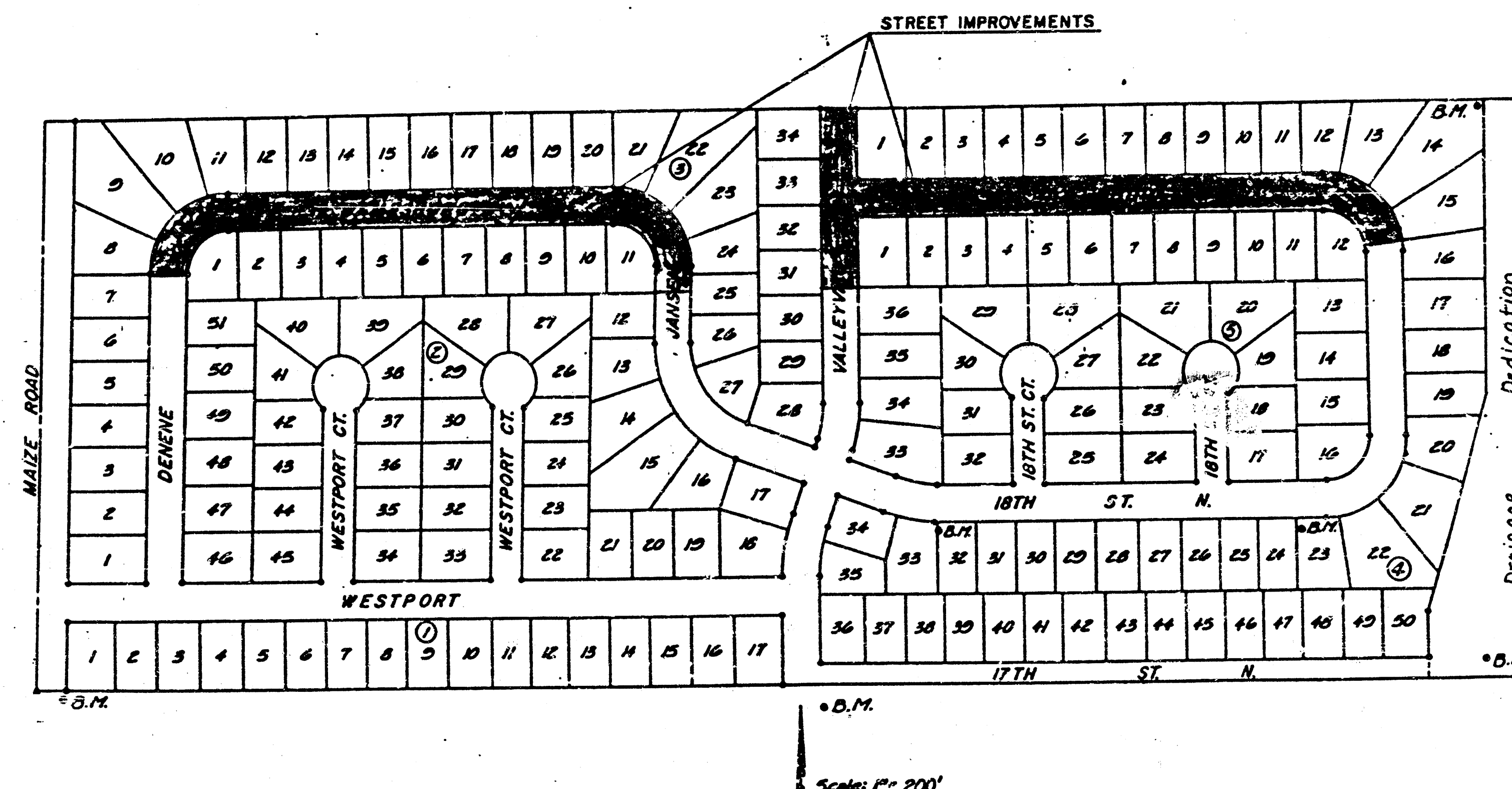
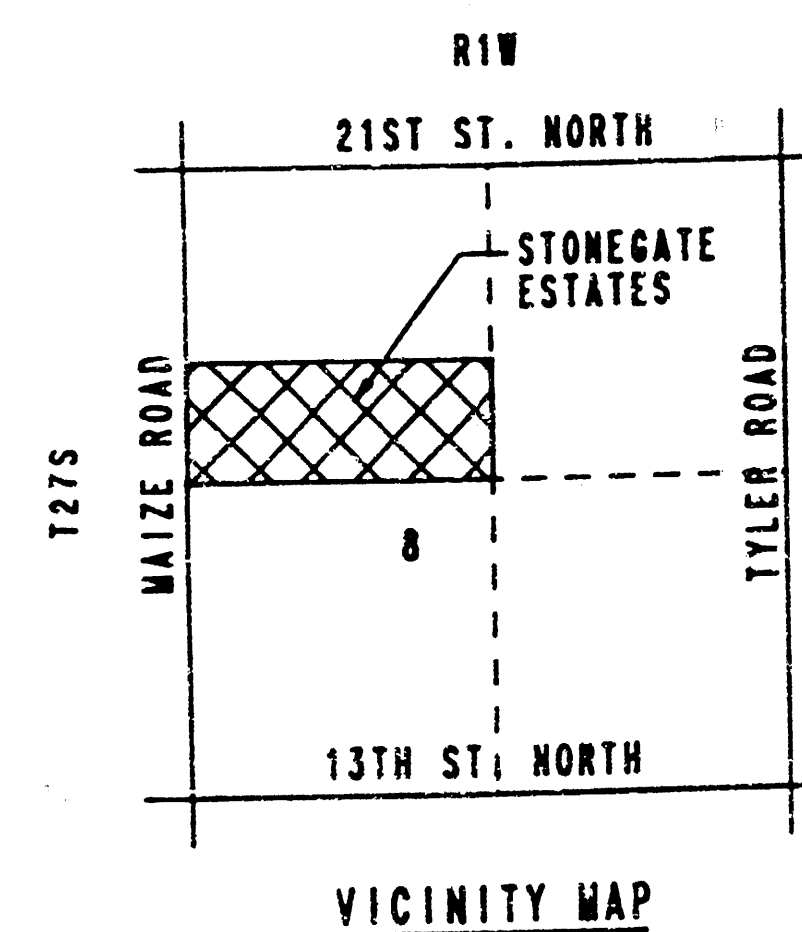
1. TITLE SHEET
2. PLAT
3. TYPICAL 35" PAVEMENT DETAILS
4. TYPICAL 28" PAVEMENT DETAILS
5. PAVING PLAN-JAMESBURG (STA. 25+64.81 TO STA. 31+00.00)
6. PAVING PLAN-JAMESBURG (STA. 31+00.00 TO STA. 36+42.00)
7. PAVING PLAN-VALLEYVIEW (STA. 100+92.35 TO STA. 105+00.00)
8. PAVING PLAN-JAMESBURG (STA. 55+00.50 TO STA. 60+50.00)
9. PAVING PLAN-JAMESBURG (STA. 60+50.00 TO STA. 65+33.04)
10. STANDARD DRIVE ENTRANCE DETAILS

JAMESBURG - FROM N.L. LOT 7, BLOCK 3 TO N.L. LOT 12, BLOCK 2
 VALLEYVIEW - FROM N.L. LOT 23, BLOCK 5 TO N.L. LOT 1, BLOCK 4
 JAMESBURG - FROM N.L. LOT 16, BLOCK 4 TO E.L. LOT VALLEYVIEW

CITY OF WICHITA PROJECT NO. 472-76-245-80001-000-000-052

PROJECT SURVEY CONTROL

VERTICAL DATUM: CITY OF WICHITA DATUM
 DATUM BENCH MARK: CITY OF WICHITA DISC. 38.3' SOUTH AND 56.0' EAST OF INTERSECTION OF CENTERLINE MAIZE ROAD AND CENTERLINE 13TH STREET NORTH. ELEV. -159.310
 BENCH MARK: STANDARD DISC ON NORTHEAST CORNER RC&C, 82' WEST AND 35' NORTH OF THE SOUTHEAST CORNER OF THE NORTHWEST 1/4 OF SECTION 8, T27S, R1W. ELEV. -156.84
 BENCH MARK: CHISELED "D" ON TOP OF CURB OF NORTH RETURN AT THE SOUTHEAST CORNER VALLEYVIEW AND 17TH STREET NORTH. ELEV. -156.19
 BENCH MARK: CITY STANDARD DISC, 11' SOUTH AND 43' EAST OF THE SOUTHWEST CORNER OF THE NORTHWEST 1/4 OF SECTION 8, T27S, R1W. ELEV. -161.84
 BENCH MARK: CHISELED "D" IN SOUTHWEST CORNER OF DRAIN INLET APPROX. 860' NORTH OF RC&C AT THE SOUTHEAST CORNER OF THE NORTHWEST 1/4 OF SECTION 8, T27S, R1W. ELEV. -152.33
 BENCH MARK: 1/2" x 4'-0" REBAR 5' EAST AND 10' SOUTH OF THE NORTHEAST CORNER OF LOT 33, BLOCK 4, STONEGATE ESTATES. ELEV. -156.93
 BENCH MARK: 1/2" x 4'-0" REBAR 10' EAST AND 10' SOUTH OF THE NORTHEAST CORNER LOT 24, BLOCK 4 STONEGATE ESTATES. ELEV. -154.36



GENERAL NOTES

CONTRACTOR WILL BE REQUIRED TO PROVIDE A MINIMUM ADVANCE NOTICE OF TWENTY-FOUR (24) HOURS TO UTILITY COMPANIES PRIOR TO STARTING ANY EXCAVATION AS FOLLOWS:

SOUTHWESTERN BELL TELEPHONE COMPANY	1-310-571-2611
CABLEVISION	262-4270 OR 263-2061
KPL GAS SERVICE	263-1511
KANSAS GAS & ELECTRIC	264-1141
CITY OF WICHITA WATER DEPARTMENT	268-4900
CITY OF WICHITA SEWER DEPARTMENT	268-4071
ARKLA GAS COMPANY	942-8350 OR 263-8161

CONTRACTOR SHALL CLEAR JAMESBURG RIGHT-OF-WAY NEAR STA. 36+42 AS FOLLOWS:
 A. REMOVE 30 L.F. AND STONE WALL
 B. REMOVE 5 PINE TREES
 C. REMOVE EARTH MOUNDS

UTILITY SERVICE LINES, POLES, VALVE BOXES, METERS, AND ETCETERA ARE TO BE ADJUSTED AS NECESSARY BY OTHERS PRIOR TO CONSTRUCTION UNLESS THE PLANS SPECIFICALLY CALL FOR THEIR ADJUSTMENT BY THE CONTRACTOR OR UNLESS THE PLANS SPECIFICALLY IDENTIFY A UTILITY TO BE ADJUSTED BY ITS OWNER DURING CONSTRUCTION. EXISTING UTILITIES AND THEIR LOCATION, AS SHOWN ON THE PLANS, REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND EXISTING UTILITIES WITHIN THE RIGHT-OF-WAY WHICH DO NOT CONFLICT WITH PROPOSED CONSTRUCTION.

CONTRACTOR SHALL SATISFY HIMSELF OF SUBSURFACE CONDITIONS PRIOR TO 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.

ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CITY OF WICHITA STANDARD SPECIFICATIONS, LATEST EDITION, UNLESS OTHERWISE NOTED ON THE PLANS.

ALL BARRICADES, SIGNS, LIGHTS AND OTHER PROTECTIVE DEVICES SHALL BE INSTALLED AND MAINTAINED IN CONFORMITY WITH THE LATEST EDITION OF THE CITY OF WICHITA BARRICADE MANUAL AS ADOPTED BY THE TRAFFIC ENGINEERING DIVISION OF THE DEPARTMENT OF OPERATIONS AND MAINTENANCE.

THE CONTRACTOR SHALL SATISFY HIMSELF OF ALL QUANTITIES REQUIRED TO CONSTRUCT THE IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THE PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL SUBMIT A "LUMP SUM" BID TO MR. RANDALL VOITH, R235 W. KELLOGG, WICHITA, KS 67209. SAID LUMP SUM SHALL BE FULL COMPENSATION FOR MATERIALS, LABOR, TOOLS, EQUIPMENT, AND INCIDENTALS TO COMPLETE THE WORK.

A SAW CUT OF AT LEAST ONE-HALF THE DEPTH OF EXISTING SURFACE COURSES OR ONE-FOURTH THE DEPTH OF THE EXISTING TOTAL PAVEMENT THICKNESS SHALL BE PROVIDED AT LOCATIONS WHERE PROPOSED CONSTRUCTION ADJUTS AN EXISTING SURFACE COURSE OR PAVEMENT FOR WHICH PARTIAL REMOVAL OF THAT SURFACE OR PAVEMENT IS REQUIRED. SAID JOINT TO FACILITATE REMOVAL WITHIN THREE (3) FEET OF EXISTING JOINTS WILL NOT BE PERMITTED AND FOR SUCH INSTANCES THE LIMITS OF REMOVAL SHALL EXTEND TO THE EXISTING JOINT. SUCH SAW CUTS WILL NOT BE PAID FOR DIRECTLY AND THIS COST SHALL BE CONSIDERED SUBSIDIARY TO REMOVAL OF THE SURFACE OR PAVEMENT.

LIMITS OF EARTHWORK SHALL MATCH EXISTING GROUND ELEVATIONS AT THE RIGHT-OF-WAY LINE UNLESS OTHERWISE NOTED ON THE PLANS WITH A NEW FINISHED GRADE ELEVATION. WHEN A NEW FINISHED GRADE ELEVATION IS SHOWN, THE EARTHWORK SHALL EXTEND ONE FOOT BEYOND THE RIGHT-OF-WAY LINE AND THEN SLOPED UP OR DOWN USING PERMISSIBLE SLOPES TO MATCH THE EXISTING GROUND SURFACE.

Revised as built May 24, 1989

APPROVED AS NOTED
 BY CITY ENGINEER OF WICHITA

NOTE TO CONTRACTOR

SANITARY SEWERS _____
 STORM SEWERS _____
 DRIVEWAY APPROACHES _____
 WATER MAINS _____
 PAVING 1/R H 2/23/89

INSPECTION AND TESTING FOR THIS PROJECT IS TO BE PROVIDED BY A LICENSED CONSULTING ENGINEERING FIRM UNDER CONTRACT WITH THE OWNER/DEVELOPER. SAID INSPECTION TO BE IN ACCORDANCE WITH THE CITY OF WICHITA STANDARD CONSTRUCTION ENGINEERING PRACTICES AND CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER. NO WORK SHALL BE PERFORMED IN DEDICATED EASEMENTS OR PUBLIC RIGHT-OF-WAY BY THE CONTRACTOR WITHOUT SUCH INSPECTION NOR SHALL ANY WORK BE COMMENCED IN DEDICATED EASEMENTS OR PUBLIC RIGHT-OF-WAY WITHOUT WRITTEN AUTHORIZATION BY THE CITY ENGINEER.

FEBRUARY, 1989
 PLANS PREPARED BY
 PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
 ENGINEERS
 WICHITA, KANSAS



STONEGATE ESTATES

WICHITA, SEDGWICK COUNTY, KANSAS

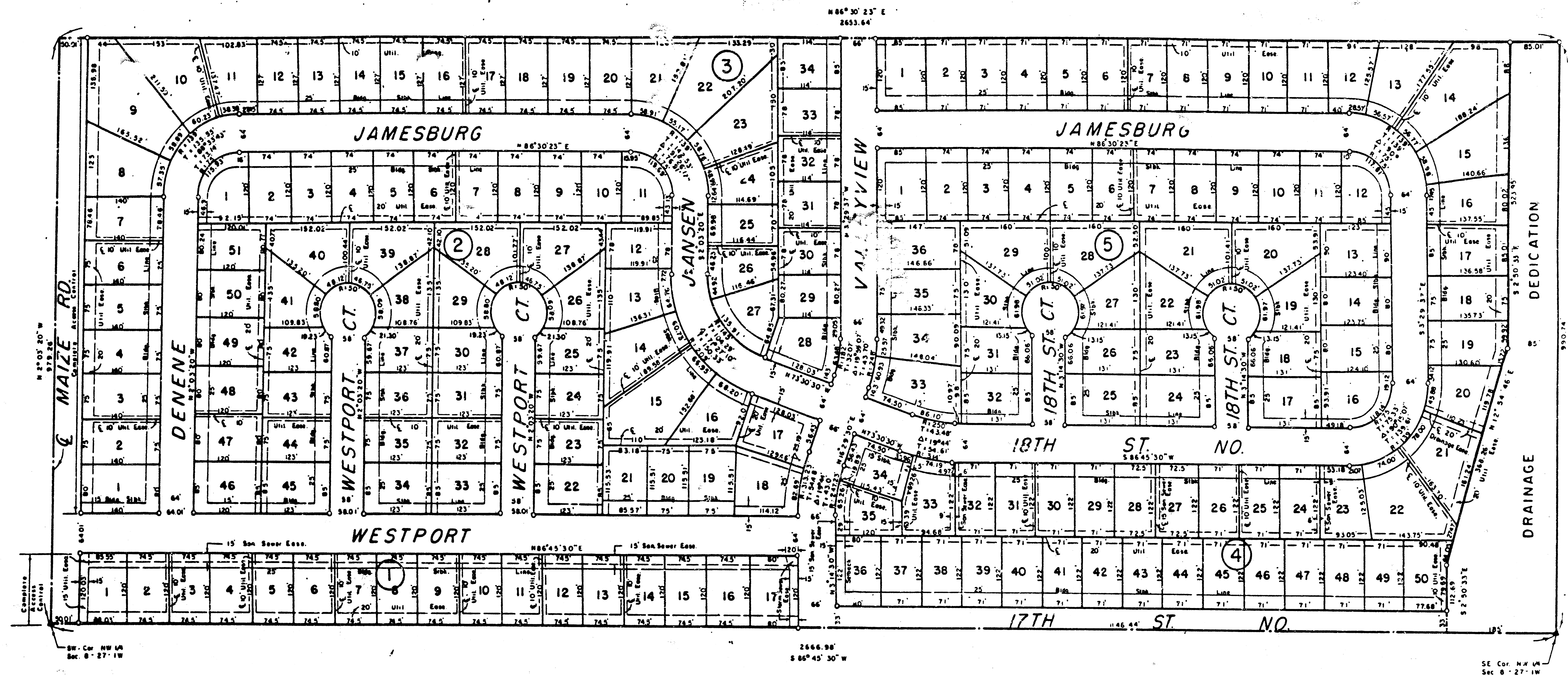
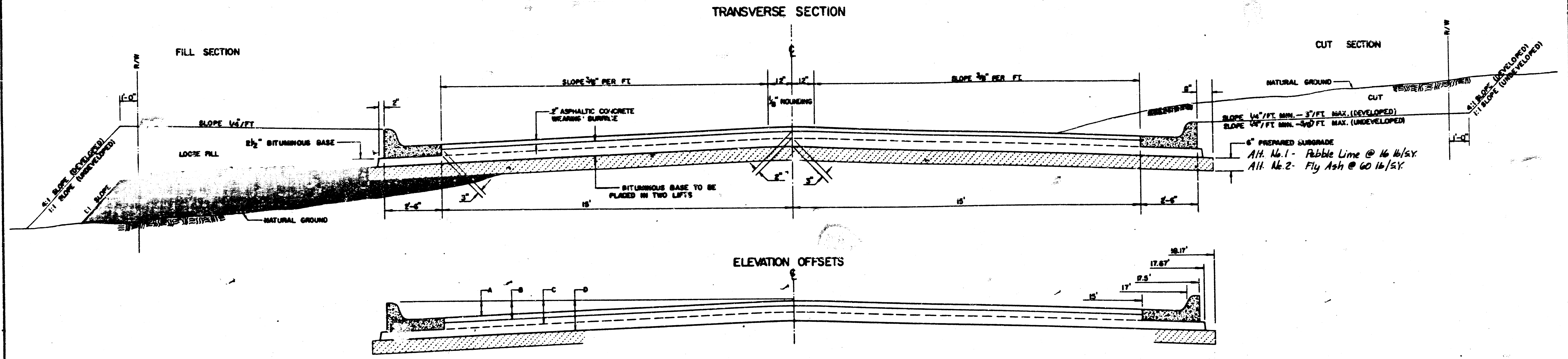


CHART OF MINIMUM PAD ELEVATIONS			
BLOCK	LOT	MEAN SEA LEVEL DATUM	CITY OF WICHITA DATUM
4	14	1342.0	154.8
4	15	1341.9	154.5
4	16	1341.8	154.4
4	17	1341.7	154.3
4	18	1341.6	154.2
4	19	1341.5	154.1
4	20	1341.4	154.0
4	21	1341.3	153.9
4	22	1341.2	153.8



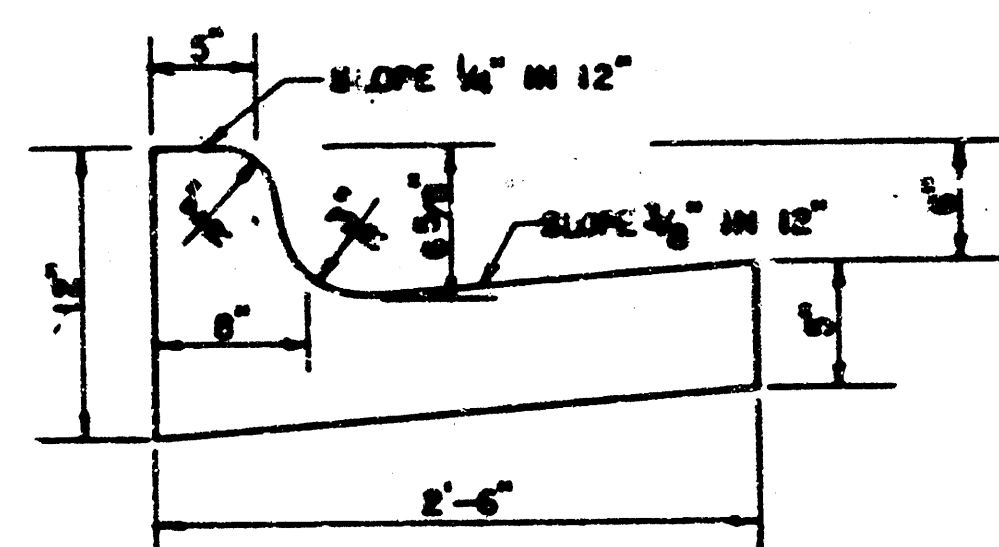
TYPICAL 35' PAVEMENT DETAILS

3/10

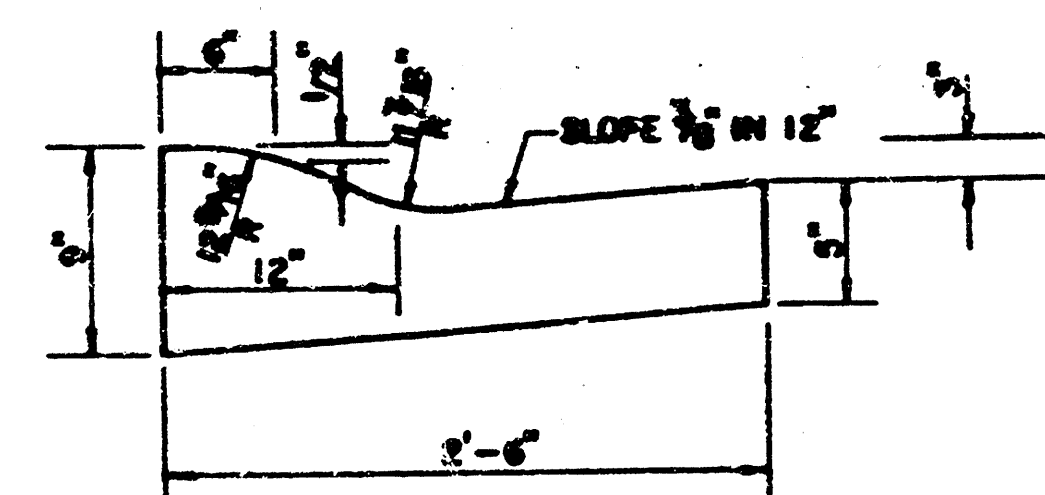


	DISTANCE FROM CENTERLINE (LT. & RT.)												
	0'	2'	4'	6'	8'	10'	12'	14'	16'	17'	17.5'	17.67'	18.17'
A: TOP OF CURBS TO TOP OF SURFACE LIFT	0.04	0.06	0.14	0.21	0.29	0.3	0.39	0.46	0.49	—	—	—	—
B: TOP OF CURBS TO TOP OF UPPER BASE LIFT	0.21	0.25	0.31	0.37	0.45	0.50	0.56	0.62	0.65	—	—	—	—
C: TOP OF 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	0.96	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



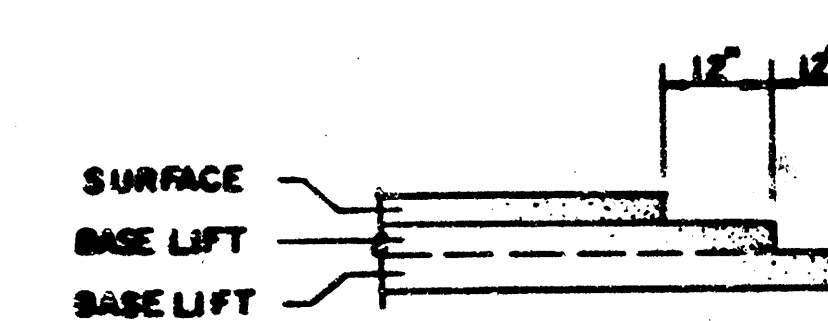
ROLL TYPE COMBINED CURB & GUTTER



GENERAL NOTES

- 1) THE ASPHALTIC CONCRETE PAVEMENT BETWEEN THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS OF 7" ASPHALTIC CONCRETE (2" 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

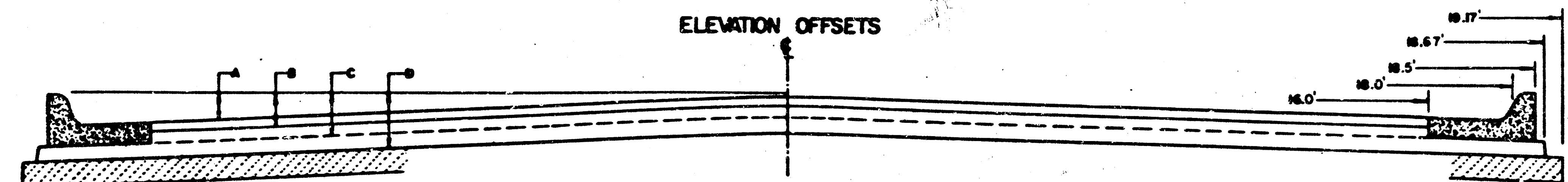
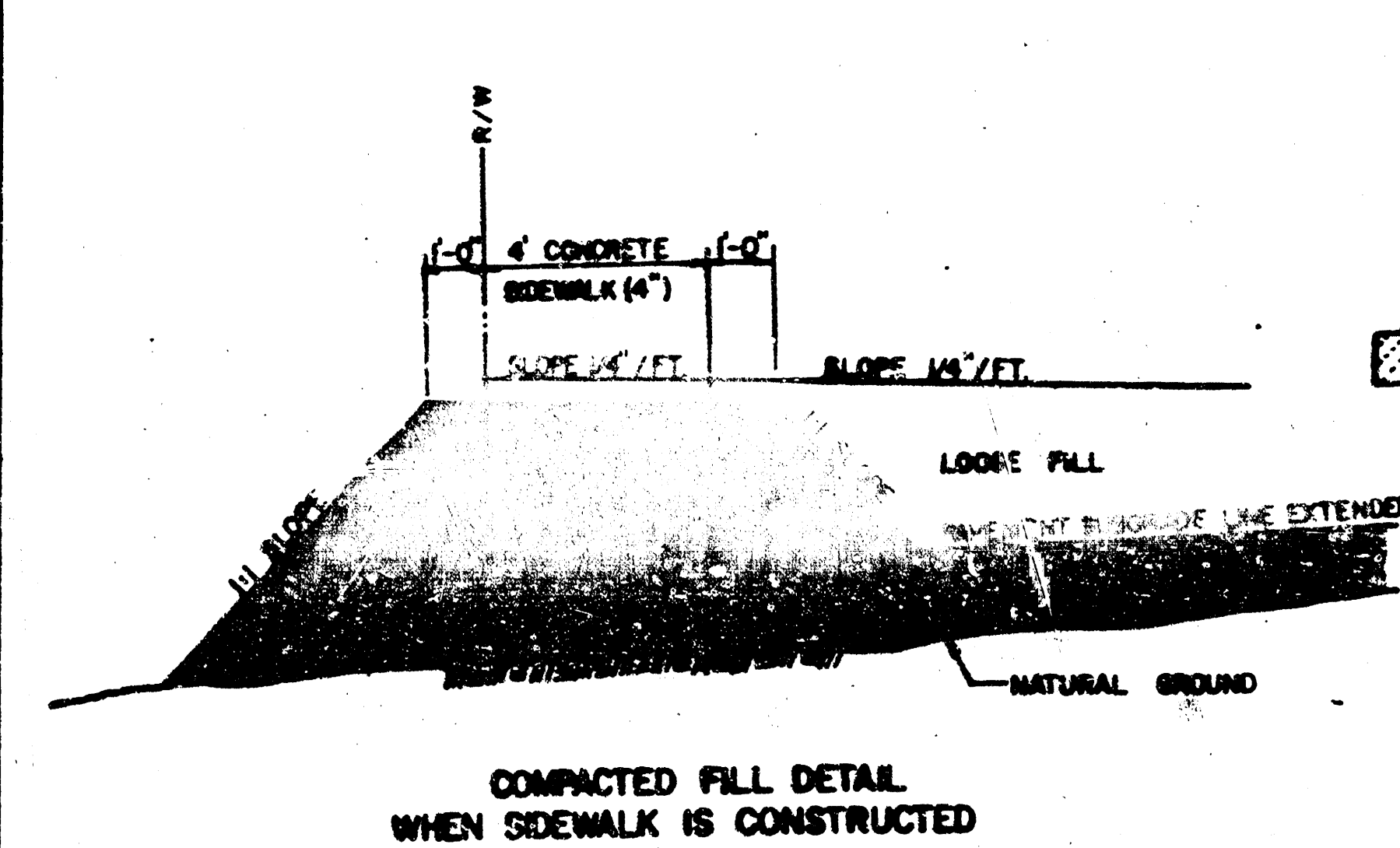
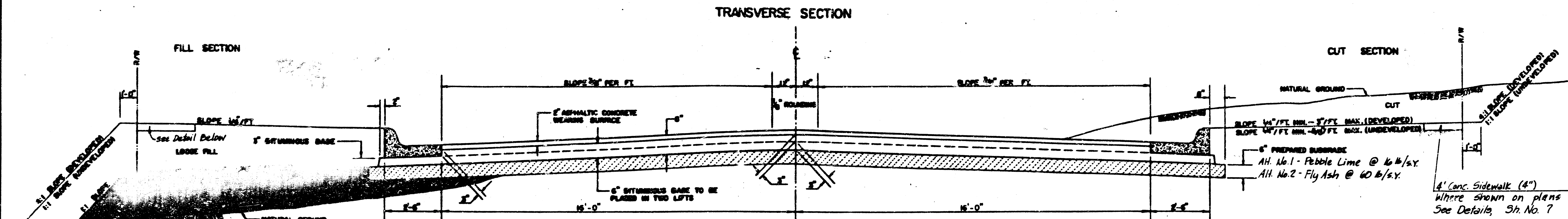


TRANSVERSE CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN FLEXIBLE BASE PAVEMENTS AT LOCATIONS WHERE PAVEMENT JOINTS EXISTING FLEXIBLE BASE PAVEMENT AS SHOWN BY THE DETAIL. ALL COSTS ASSOCIATED WITH THE CONSTRUCTION OF THE TRANSVERSE JOINT SHALL BE INCLUDED IN THE BID PRICE FOR SQUARE YARDS 7" ASPHALTIC CONCRETE (2" BITUMINOUS BASE).

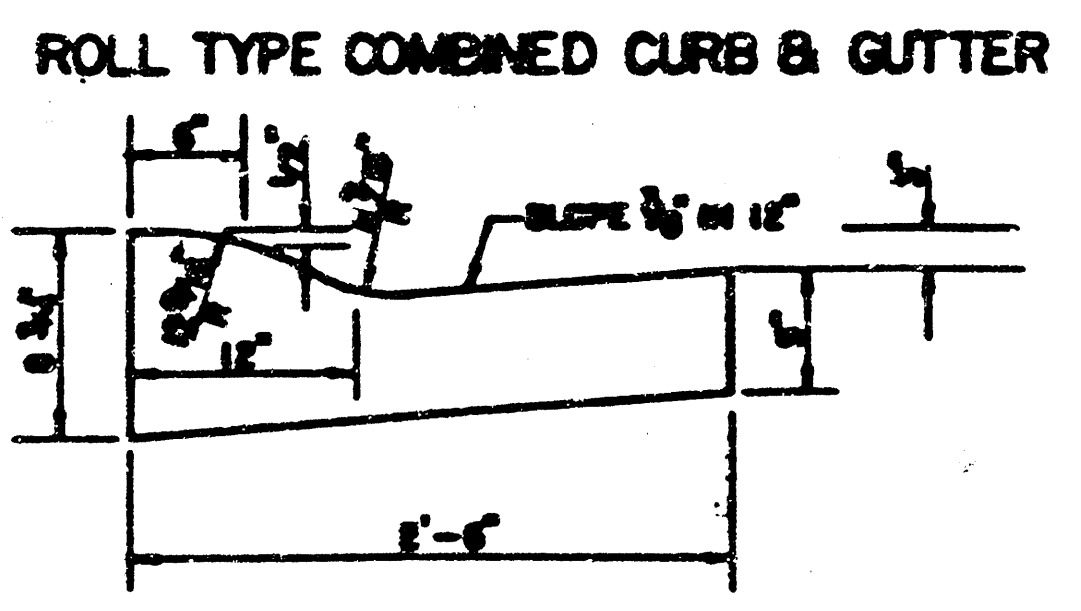
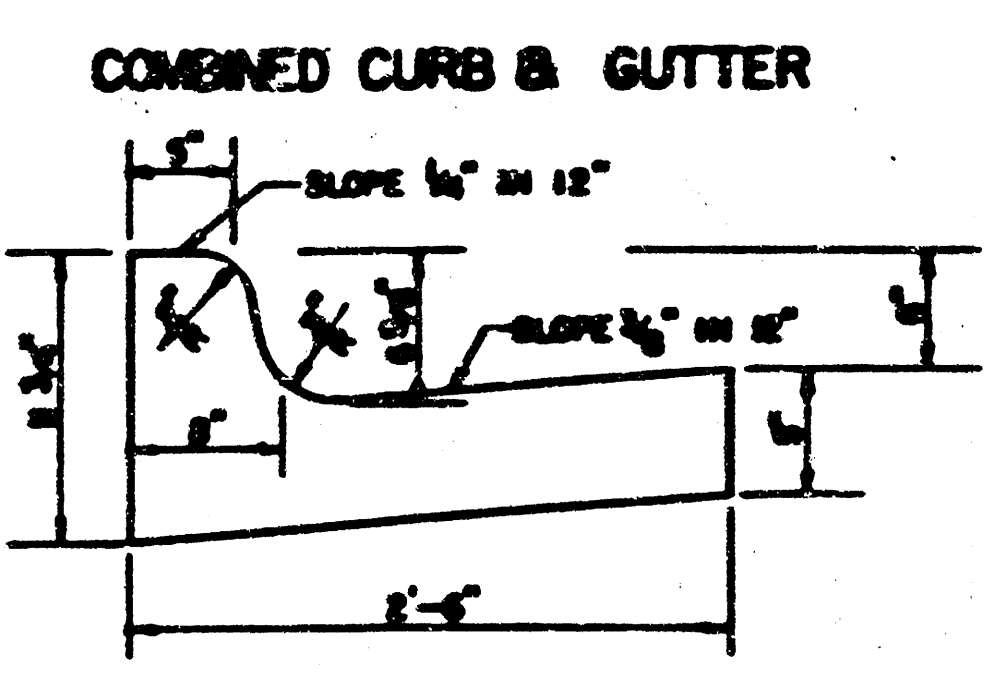
7 INCH RESIDENTIAL ASPHALTIC CONCRETE
PAVEMENT WITH 5 INCH BITUMINOUS BASE
CITY OF WHITIA, KANSAS
PROJECT NUMBER
472-76-245-00001-000-000-052 3/10

TYPICAL 37' PAVEMENT DETAILS

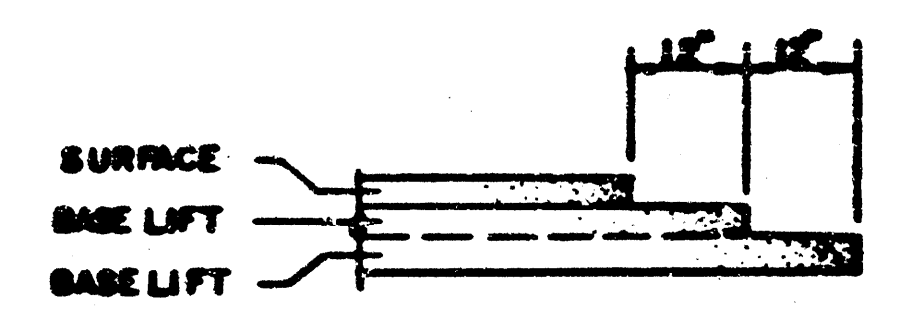
4 10



	DISTANCE FROM CENTERLINE (LT. & RT.)													
	0	2.	4	6	8	10	12	14	16	18	18.5	18.67	19.17	
A: TOP OF CURBS TO TOP OF SURFACE LIFT	.01	.05	.11	.18	.24	.30	.36	.43	.49	—	—	—	—	
B: TOP OF CURBS TO TOP OF UPPER BASE LIFT	.17	.22	.28	.34	.40	.47	.53	.59	.65	—	—	—	—	
C: TOP OF CURBS TO TOP OF LOWER BASE LIFT	.42	.47	.53	.59	.65	.72	.78	.84	.90	.97	.98	.99	—	
D: TOP OF CURBS TO TOP OF SUBGRADE	.67	.72	.78	.84	.90	.97	1.03	1.09	1.15	1.22	1.23	1.24	1.25	



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 6" ASPHALTIC CONCRETE (6" BITUMINOUS BASE).

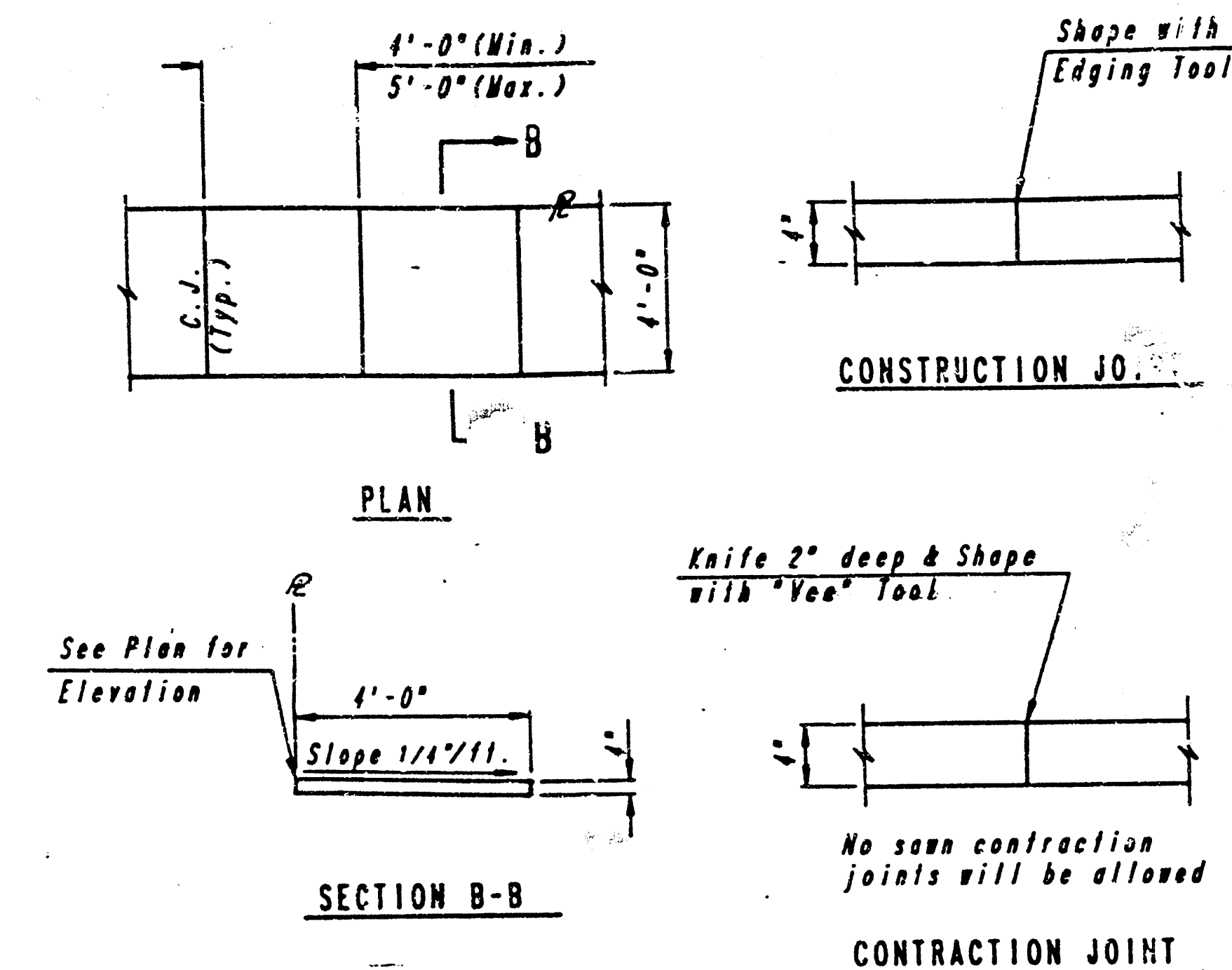
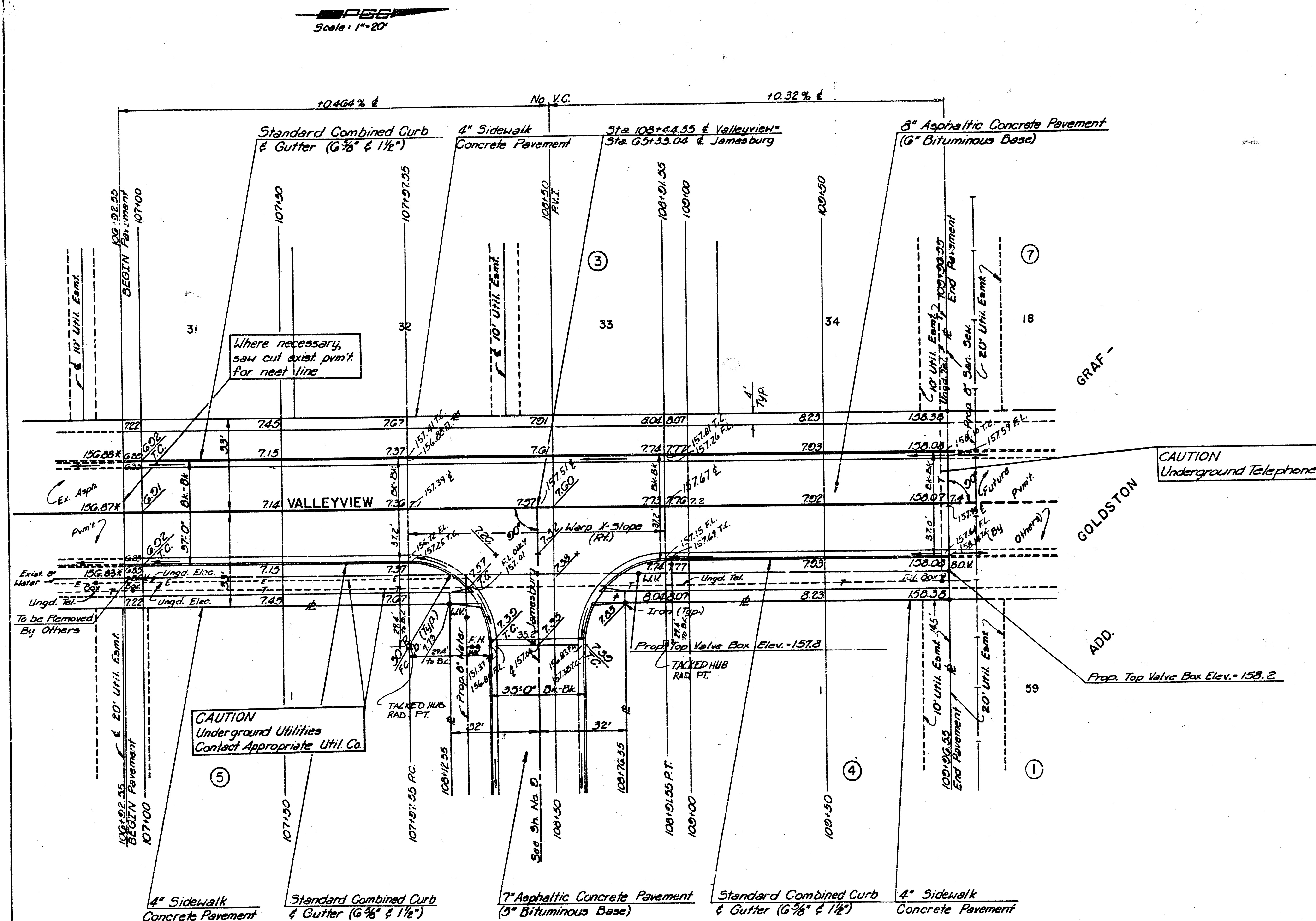
GENERAL NOTES

- 1) THE ASPHALTIC CONCRETE PAVEMENT BETWEEN THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS OF 6" ASPHALTIC CONCRETE (6" BITUMINOUS BASE).
- 2) THE BITUMINOUS BASE UNDER AND BEHIND THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS OF 6" BITUMINOUS BASE.
- 3) A TACK COAT OF EMULSIFIED ASPHALT (30-40 OR 40-50) SHALL BE APPLIED AT AN APPROPRIATE 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 BASEGRADE 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.

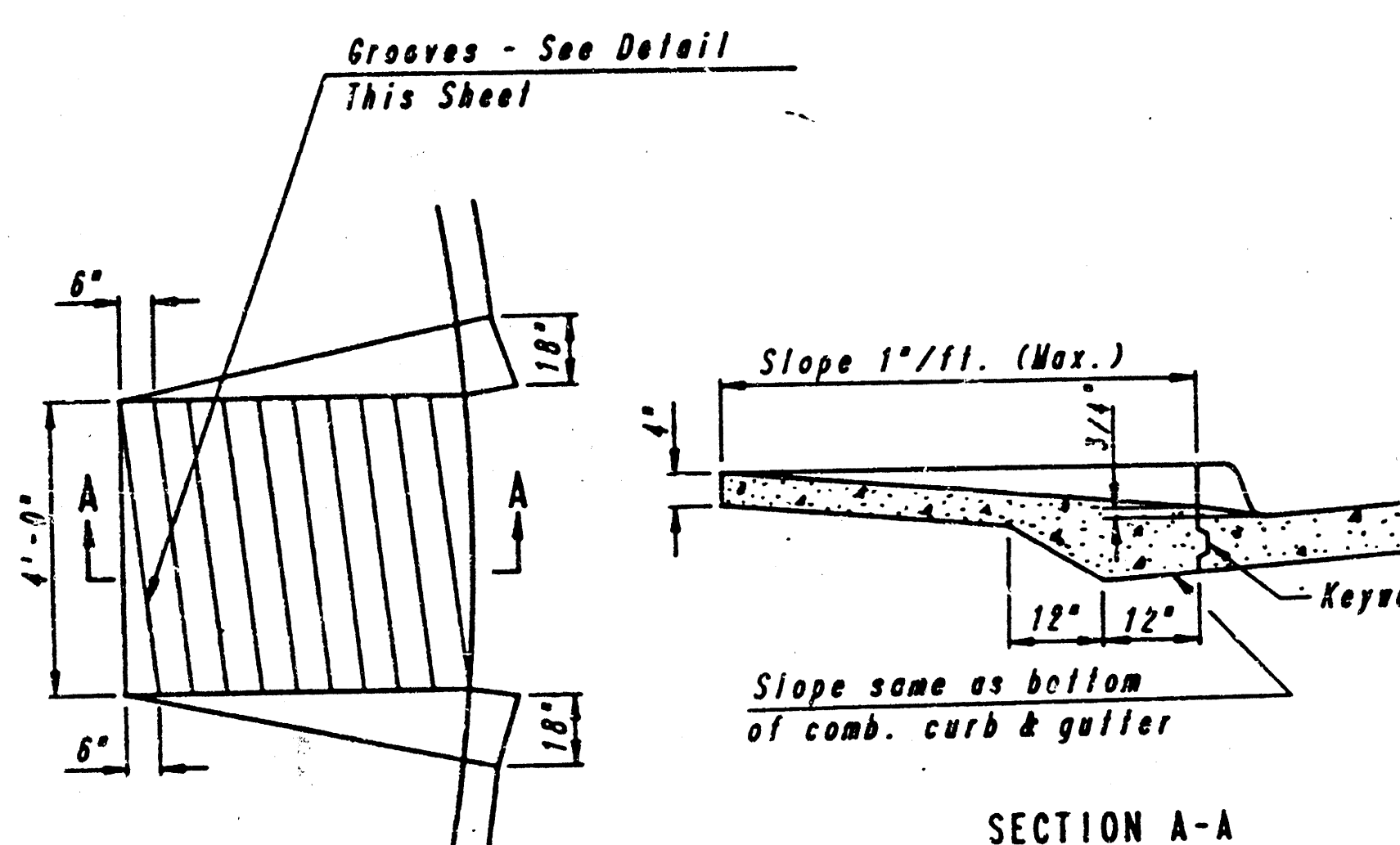
6 INCH RESIDENTIAL ASPHALTIC CONCRETE
PAVEMENT WITH 6 INCH BITUMINOUS BASE
CITY OF WICHITA, KANSAS
PROJECT NUMBER
472-76-245-80001-000-000-052

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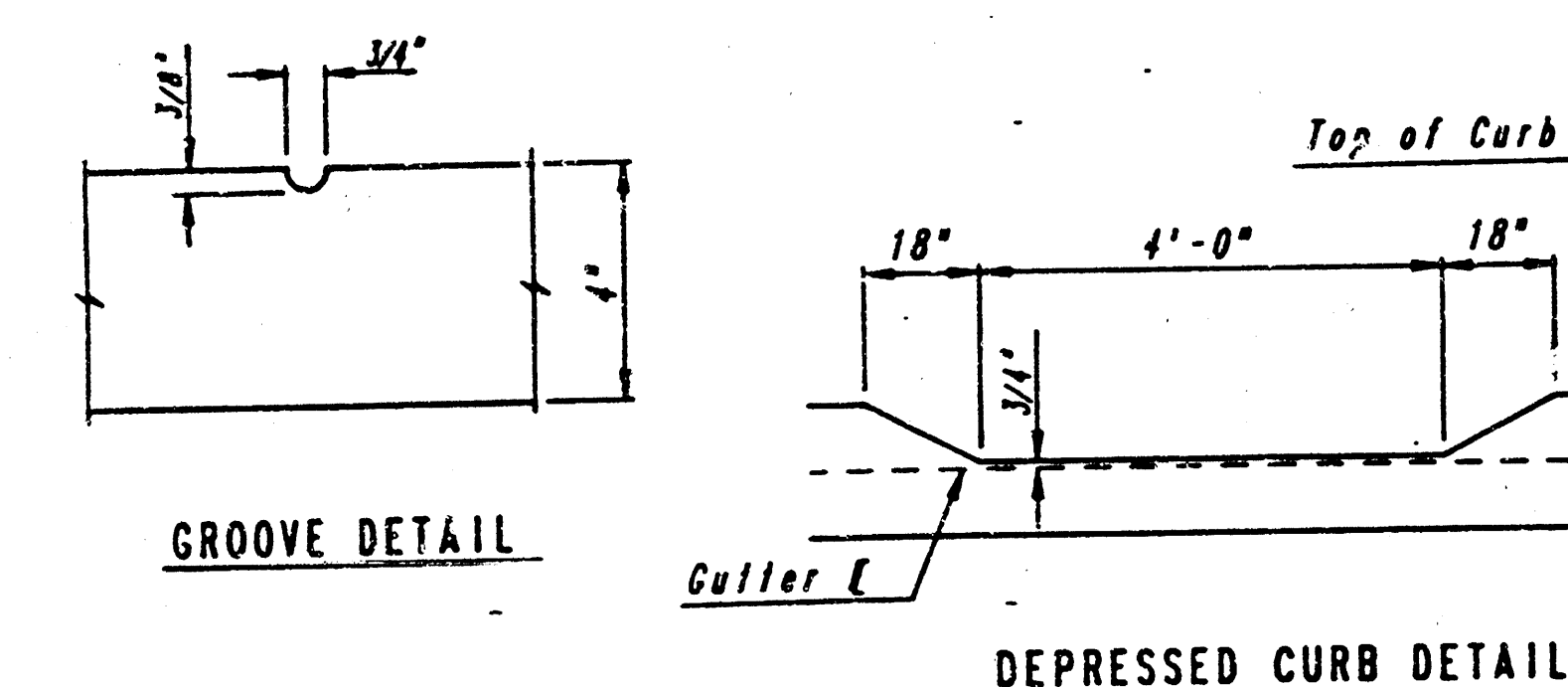
PROJECT NO.	SHEET NO.	TOTAL SHEETS
472-76-245-80001-000-000-052	7	10



4\"/>



WHEELCHAIR RAMP DETAIL



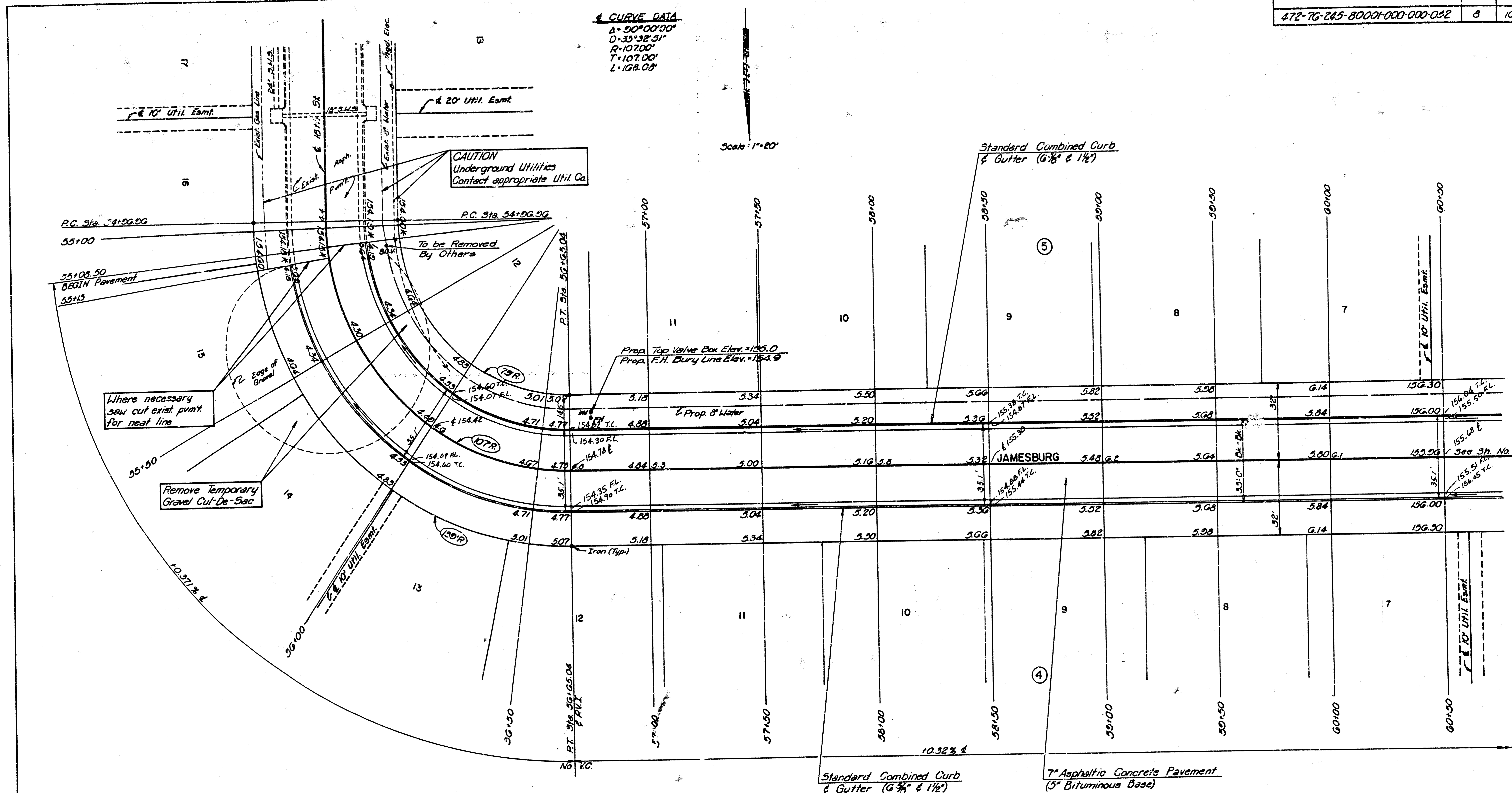
TYPICAL WHEELCHAIR RAMP DETAILS

WATER VALVE BOX ELEVATIONS			
STREET	STATION	OFFSET	PROPOSED ELEVATION
Valleyview	108+81.55	23.0' Rt.	157.0
Valleyview	109+96.55	23.0' Rt.	153.2

- * Match Existing
- * Construct Wheelchair Ramp (See Detail this Sheet)

Revised as built May 24, 1989			
1	Added Tele. Line @ Sta. 109+95.5	C.S.B.	2-20-89
No.	Revision	By	Date
STONEGATE ESTATES			
VALLEYVIEW			
STA. 106+92.55 TO STA. 109+96.55			
ENGINEERS			
WICHITA, KANSAS			
Designed by	C.S.B., G.D.D.	Checked by	7/10
Drawn by	V.J.A.	Date	Jan., 1989 Job No. 88410

PROJECT NO.	SHEET NO.	TOTAL SHEETS
472-76-245-80001-000-000-052	8	10



* Match Existing

Revised as built May 24, 1989

STONEGATE ESTATES

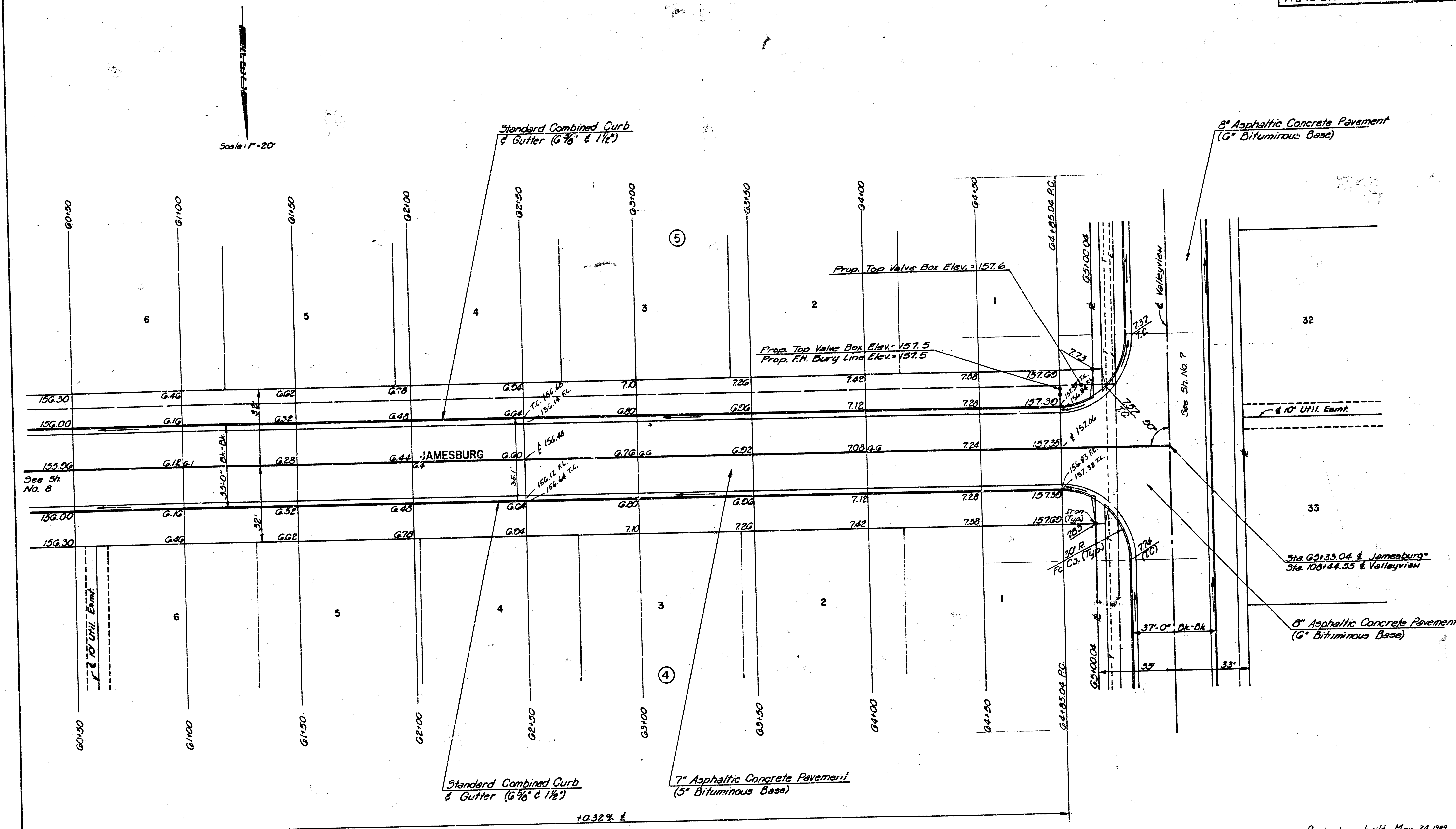
JAMESBURG

STA. 55+08.50 TO STA. 60+50.00

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.

ENGINEERS
 WICHITA, KANSAS

Designed by: C.S.B., G.D.D. Checked by: V.J.P.
 Drawn by: V.J.P. Date: Jan., 1989 Job No. 88410



WATER VALVE BOX ELEVATIONS			
STREET	STATION	OFFSET	PROPOSED ELEVATION
Jamesburg	64+85.04	24.8' LT	157.5
Jamesburg	64+85.04	25.0' LT	157.6

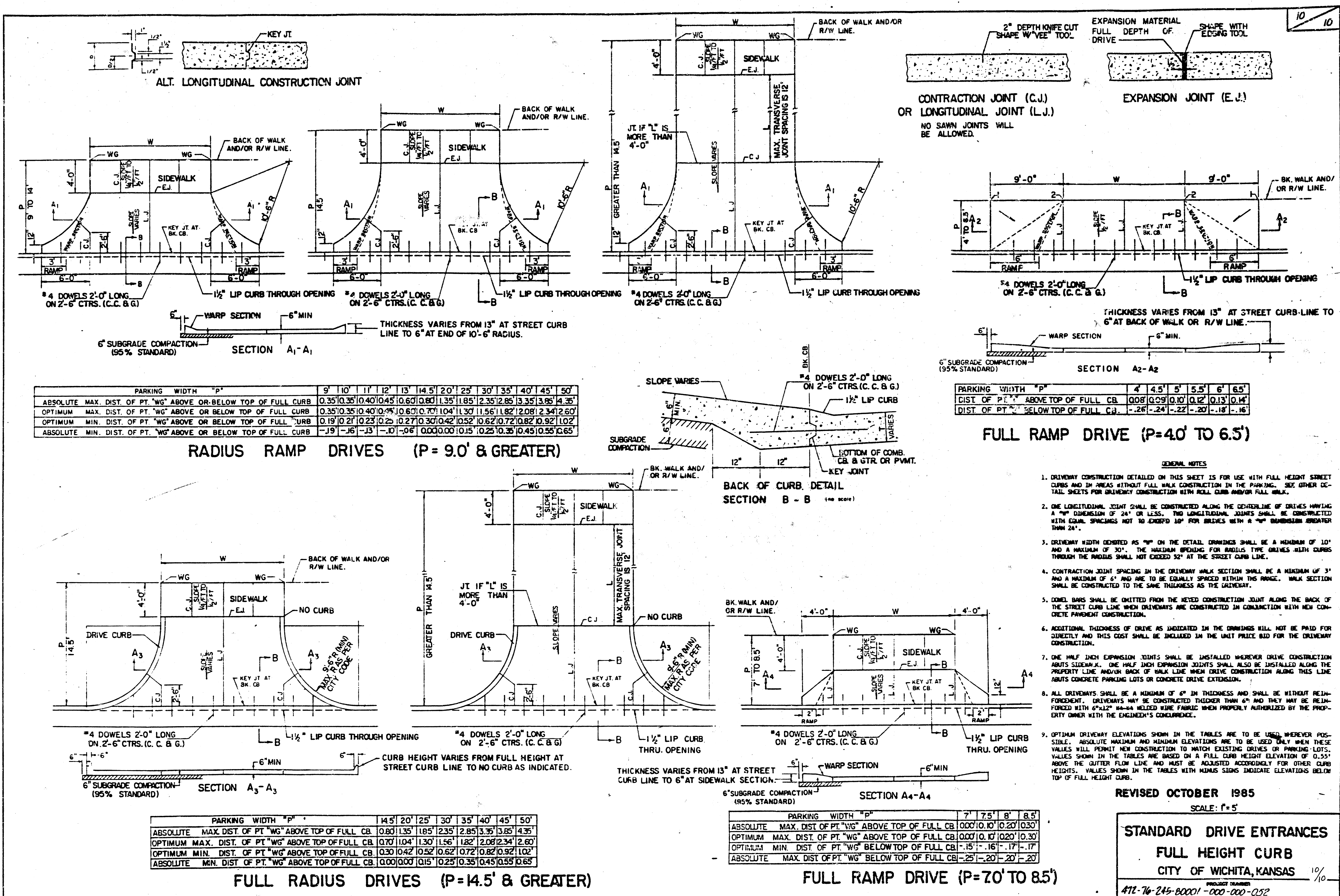
Revised as built May 24, 1989

STONEGATE ESTATES

JAMESBURG
STA. 60+50.00 TO STA. 65+33.04

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

Designed by	C.B. G.D.	Checked by	
Drawn by	V.J.K.	Date	Jan, 1989
		Job No.	8840



- GENERAL NOTES**
- DRIVEWAY CONSTRUCTION DETAILED ON THIS SHEET IS FOR USE WITH FULL HEIGHT STREET CURBS AND IN AREAS WITHOUT FULL WALK CONSTRUCTION IN THE PARKING. SEE OTHER DETAIL SHEETS FOR DRIVEWAY CONSTRUCTION WITH ROLL CURB AND/OR FULL WALK.
 - ONE LONGITUDINAL JOINT SHALL BE CONSTRUCTED ALONG THE CENTERLINE OF DRIVES HAVING A "P" DIMENSION OF 24' OR LESS. TWO LONGITUDINAL JOINTS SHALL BE CONSTRUCTED WITH EQUAL SPACINGS NOT TO EXCEED 10' FOR DRIVES WITH A "P" DIMENSION GREATER THAN 24'.
 - DRIVEWAY WIDTH CENTERED AS SHOWN ON THE DETAIL DRAWINGS SHALL BE A MINIMUM OF 10' AND A MAXIMUM OF 30'. THE MAXIMUM OPENING FOR RADIUS TYPE DRIVES WITH CURBS THROUGH THE RADIUS SHALL NOT EXCEED 52' AT THE STREET CURB LINE.
 - CONTRACTION JOINT SPACING IN THE DRIVEWAY WALK SECTION SHALL BE A MINIMUM OF 3' AND A MAXIMUM OF 6' AND ARE TO BE EQUALLY SPACED WITHIN THIS RANGE. WALK SECTION SHALL BE CONSTRUCTED TO THE SAME THICKNESS AS THE DRIVEWAY.
 - DOWN BARS SHALL BE OMITTED FROM THE KEYED CONSTRUCTION JOINT ALONG THE BACK OF THE STREET CURB LINE WHEN DRIVEWAYS ARE CONSTRUCTED IN CONJUNCTION WITH NEW CONCRETE PAVEMENT CONSTRUCTION.
 - ADDITIONAL THICKNESS OF DRIVE AS INDICATED IN THE DRAWINGS WILL NOT BE PAID FOR DIRECTLY AND THIS COST SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE DRIVEWAY CONSTRUCTION.
 - ONE HALF INCH EXPANSION JOINTS SHALL BE INSTALLED WHEREVER DRIVE CONSTRUCTION ADJUTS SIDEWALK. ONE HALF INCH EXPANSION JOINTS SHALL ALSO BE INSTALLED ALONG THE PROPERTY LINE AND/OR BACK OF WALK LINE WHEN DRIVE CONSTRUCTION ALONG THIS LINE ADJUTS CONCRETE PARKING LOTS OR CONCRETE DRIVE EXTENSION.
 - ALL DRIVEWAYS SHALL BE A MINIMUM OF 6" IN THICKNESS AND SHALL BE WITHOUT REINFORCEMENT. DRIVEWAYS MAY BE CONSTRUCTED THICKER THAN 6" AND THEY MAY BE REINFORCED WITH 6"x12" W-84 HELDED WIRE FABRIC WHEN PROPERLY AUTHORIZED BY THE PROPERTY OWNER WITH THE ENGINEER'S CONCURRENCE.
 - OPTIMUM DRIVEWAY ELEVATIONS SHOWN IN THE TABLES ARE TO BE USED WHEREVER POSSIBLE. ABSOLUTE MAXIMUM AND MINIMUM ELEVATIONS ARE TO BE USED ONLY WHEN THESE VALUES WILL PERMIT NEW CONSTRUCTION TO MATCH EXISTING DRIVES OR PARKING LOTS. VALUES SHOWN IN THE TABLES ARE BASED ON A FULL CURB HEIGHT ELEVATION OF 0.55' ABOVE THE GUTTER FLOW LINE AND MUST BE ADJUSTED ACCORDINGLY FOR OTHER CURB HEIGHTS. VALUES SHOWN IN THE TABLES WITH MINUS SIGNS INDICATE ELEVATIONS BELOW TOP OF FULL HEIGHT CURB.

REVISED OCTOBER 1985
SCALE: 1"=5'

STANDARD DRIVE ENTRANCES
FULL HEIGHT CURB
CITY OF WICHITA, KANSAS

PROJECT NUMBER
412-76-245-80001-000-000-052