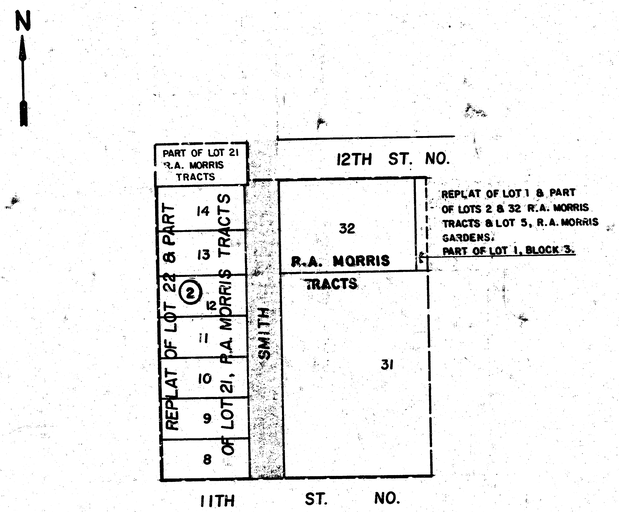
SMITH

N.L. 11TH NO. TO N.L. 12TH NO.



CARL L. GIBSON
LICENSED
9590
KANSAS
PROFESSIONAL ENGINEER

PROJECT DESCRIPTION		
SMITH - N.L. 11TH NO. to N.L. 12TH NO.		
PROJECT NUMBER		
472-76-245-81278-000-000-001		
BOOK NO. DCD 303	APPROVED BY	DATE
DRAWN BY VRH		REVISED
CITY OF WICHITA DEPARTMENT OF ENGINEERING		
CITY ENGINEER M.E. LINDEBAK		SCALE 1" = 100'

1/5

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5/6)

CITY OF WICHITA, KANSAS

PAVEMENT WITH 2 INCH BITUMINOUS BASE

7 INCH RESIDENTIAL ASPHALTIC CONCRETE

PROJECT NUMBER 100-000-000-000-81S18-JAS-JC-STA

GENERAL NOTES

1) THE ASPHALTIC CONCRETE PAVEMENT BETWEEN THE CONFINED CURB AND GUTTER SHALL BE LAID AS SQUARE AS POSSIBLE AWAY FROM THE CONFINED CURB AND GUTTER (2" ASPHALTIC CONCRETE OVER 2" BITUMINOUS BASE).

2) CONSTRUCTION JOINTS IN EACH LIFT SHALL BE STAGGERED A MINIMUM DISTANCE OF ONE (1) FOOT FROM JOINTS IN PRECEDING LIFT AND PLACED SO THAT A JOINT WILL BE CONSTRUCTED ON THE CENTERLINE OF THE TOP LIFT.

3) A MAX. CON'T OF ENTRAINED ASPHALT (3C-4 OR C22-4) SHALL BE PLACED IN ANY WARRANTABLE MAT OF 0.02 GALLONS PER SQUARE YARD BETWEEN EACH LIFT OF ASPHALTIC MATERIAL.

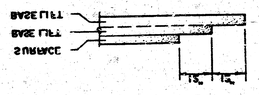
4) BITUMINOUS BASE AND ASPHALTIC CONCRETE MIXING PLANTS SHALL BE EQUIPPED WITH A LOADING MACHINE HAVING AUTOMATIC CONTROLS FOR LINE AND GRADE.

5) THE BITUMINOUS BASE LAYER UNDER AND BEHIND THE CONFINED CURB AND GUTTER SHALL BE LAID AS SQUARE AS 5 1/2" BITUMINOUS BASE.

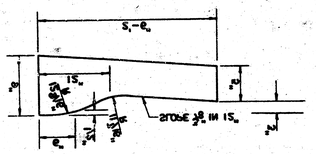
6) CONTRACTOR TO BID ONLY ONE STANDARD INCREMENTAL VARIANCE WHEN MORE VARIANCES ARE PROVIDED IN THE PROPOSAL AND CONTRACT, THE ALTERNATE CHOSEN BY THE SUCCESSFUL BIDDER SHALL BE USED IN CONSTRUCTING THE PROJECT.

TRANSVERSE CONSTRUCTION JOINT

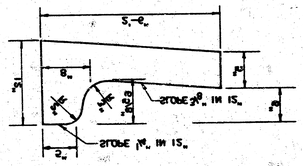
TRANSVERSE CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN EXISTING FLEXIBLE BASE PAVEMENT AT LOCATIONS WHERE PAVEMENT JOINS FLEXIBLE BASE PAVEMENT AT THE DEPTH AS SHOWN BY THE DETAIL. ALL COSTS ASSOCIATED WITH THE CONSTRUCTION OF THE TRANSVERSE JOINT AREAS NOT SHALL BE INCLUDED IN THE BID PRICE FOR SQUARE YARD OF ASPHALTIC CONCRETE (2" BITUMINOUS BASE)."



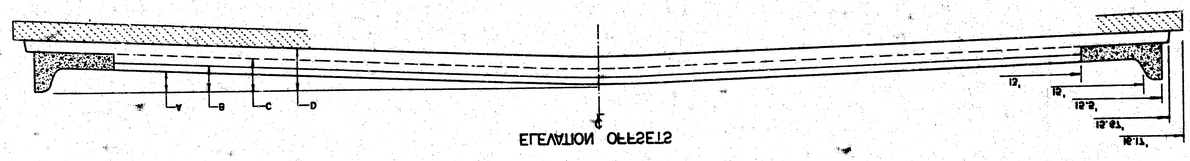
ROLL TYPE COMBINED CURB & GUTTER



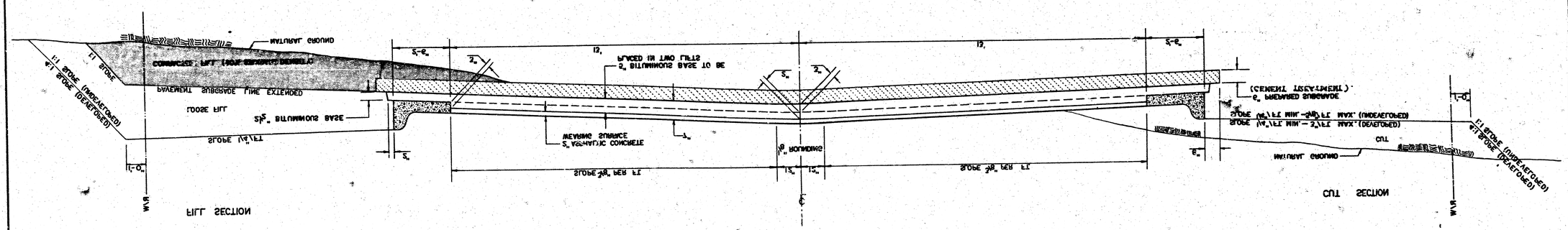
COMBINED CURB & GUTTER



DISTANCE FROM CENTERLINE (L1 & W)	0'	5'	6'	8'	12'	14'	15'	17'	19'	12'-2"	12'-8"	18'-11"
A: TOP TO CURB TO TOP OF SHOULDER	0.10	0.14	0.51	0.51	0.25	0.23	0.40	0.49	—	—	—	—
B: TOP TO CURB TO TOP OF NORMAL BASE FILL	1.51	1.21	0.28	0.44	0.49	0.26	0.23	0.26	—	—	—	—
C: TOP TO CURB TO TOP OF LOWER BASE FILL	0.44	0.48	1.21	0.64	0.70	0.97	1.16	0.96	0.86	1.00	1.00	—
D: TOP TO CURB TO TOP OF SHOULDER	0.82	0.72	0.80	0.91	0.82	1.01	1.08	1.15	1.18	1.51	1.51	1.51



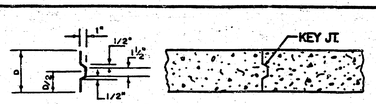
ELEVATION OFFSETS



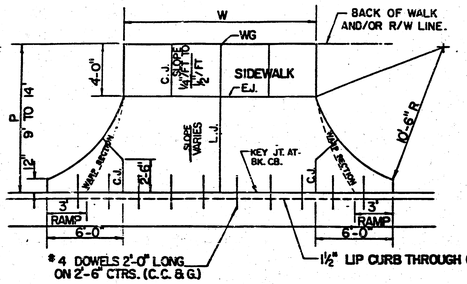
TRANSVERSE SECTION

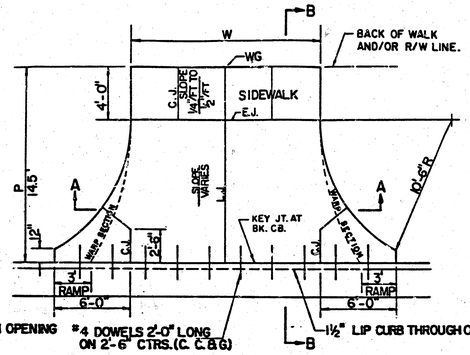
TYPICAL SI, PAVEMENT DETAILS

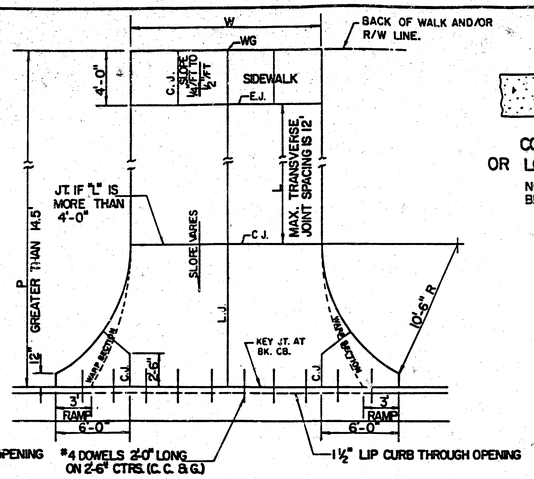
6/6

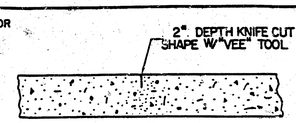


ALT. LONGITUDINAL CONSTRUCTION JOINT

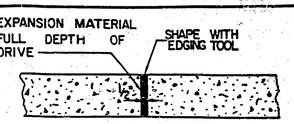




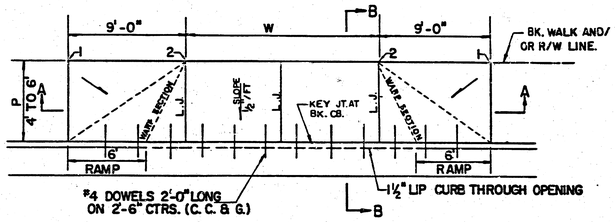


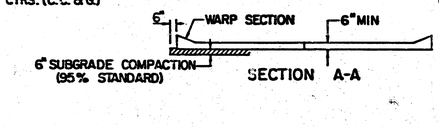


CONTRACTION JOINT (C.J.)
OR LONGITUDINAL JOINT (L.J.)
NO SAWN JOINTS WILL BE ALLOWED.

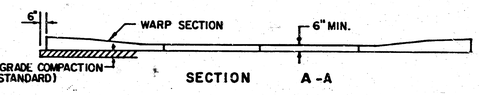


EXPANSION JOINT (E.J.)





SECTION A-A



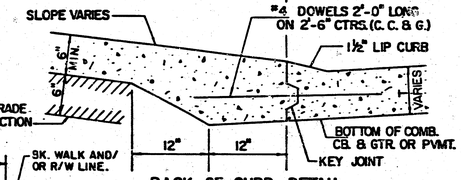
SECTION A-A

PARKING WIDTH "P"	4'	4.5'	5'	5.5'	6'	6.5'
DIST. OF PT. "1" ABOVE TOP OF FULL CB.	0.08'	0.09'	0.10'	0.12'	0.13'	0.14'
DIST. OF PT. "2" BELOW TOP OF FULL CB.	-.26'	-.24'	-.22'	-.20'	-.18'	-.16'

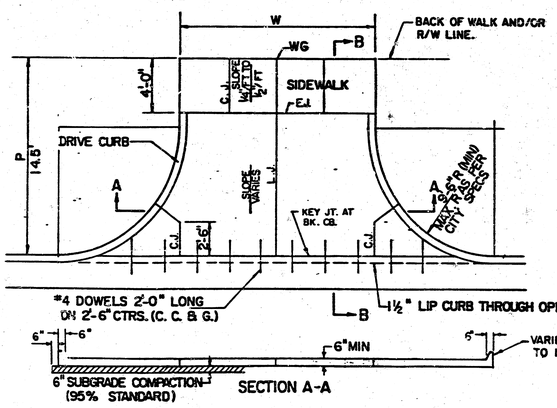
FULL RAMP DRIVE (P=4.0' TO 6.5')

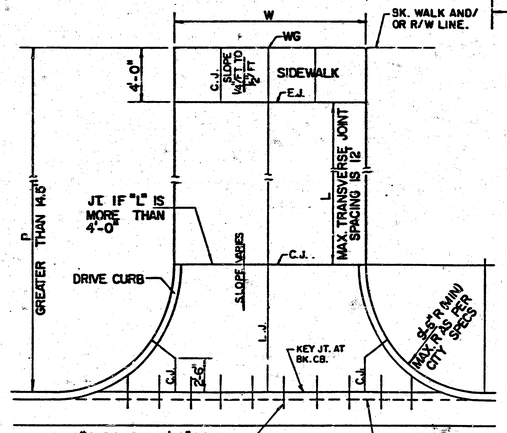
PARKING WIDTH "P"	9'	10'	11'	12'	13'	14.5'	20'	25'	30'	35'	40'	45'	50'
ABSOLUTE MAX. DIST. OF PT. "WG" ABOVE OR BELOW TOP OF FULL CURB	0.35'	0.35'	0.40'	0.45'	0.60'	0.80'	1.35'	1.85'	2.35'	2.85'	3.35'	3.85'	4.35'
OPTIMUM MAX. DIST. OF PT. "WG" ABOVE OR BELOW TOP OF FULL CURB	0.35'	0.35'	0.40'	0.45'	0.60'	0.70'	1.04'	1.30'	1.56'	1.82'	2.08'	2.34'	2.60'
OPTIMUM MIN. DIST. OF PT. "WG" ABOVE OR BELOW TOP OF FULL CURB	0.19'	0.21'	0.23'	0.25'	0.27'	0.30'	0.42'	0.52'	0.62'	0.72'	0.82'	0.92'	1.02'
ABSOLUTE MIN. DIST. OF PT. "WG" ABOVE OR BELOW TOP OF FULL CURB	-.19'	-.16'	-.13'	-.10'	-.06'	0.00	0.00'	0.15'	0.25'	0.35'	0.45'	0.55'	0.65'

RADIUS RAMP DRIVES (P= 9.0' & GREATER)

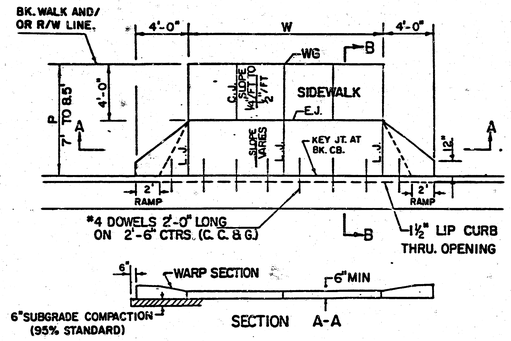


BACK OF CURB DETAIL
SECTION B - B (no scale)





SECTION A-A



SECTION A-A

PARKING WIDTH "P"	14.5'	20'	25'	30'	35'	40'	45'	50'
ABSOLUTE MAX. DIST. OF PT. "WG" ABOVE TOP OF FULL CB.	0.80'	1.35'	1.85'	2.35'	2.85'	3.35'	3.85'	4.35'
OPTIMUM MAX. DIST. OF PT. "WG" ABOVE TOP OF FULL CB.	0.70'	1.04'	1.30'	1.56'	1.82'	2.08'	2.34'	2.60'
OPTIMUM MIN. DIST. OF PT. "WG" ABOVE TOP OF FULL CB.	0.30	0.42'	0.52'	0.62'	0.72'	0.82'	0.92'	1.02'
ABSOLUTE MIN. DIST. OF PT. "WG" ABOVE TOP OF FULL CB.	0.00	0.00'	0.15'	0.25'	0.35'	0.45'	0.55'	0.65'

FULL RADIUS DRIVES (P=14.5' & GREATER)

PARKING WIDTH "P"	7'	7.5'	8'	8.5'
ABSOLUTE MAX. DIST. OF PT. "WG" ABOVE TOP OF FULL CB.	0.00'	0.10'	0.20'	0.30'
OPTIMUM MAX. DIST. OF PT. "WG" ABOVE TOP OF FULL CB.	0.00'	0.10'	0.20'	0.30'
OPTIMUM MIN. DIST. OF PT. "WG" ABOVE TOP OF FULL CB.	0.15'	0.16'	0.17'	0.17'
ABSOLUTE MAX. DIST. OF PT. "WG" BELOW TOP OF FULL CB.	-.25'	-.20'	-.20'	-.20'

FULL RAMP DRIVE (P=7.0' TO 8.5')

GENERAL NOTES

1. 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.
2. 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'.
3. DRIVEWAY WIDTH DENOTED AS "W" 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.
4. 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.
5. DOWEL 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.
6. 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.
7. ONE HALF INCH EXPANSION JOINTS SHALL BE INSTALLED WHEREVER DRIVE CONSTRUCTION ABUTS 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 ABUTS CONCRETE PARKING LOTS OR CONCRETE DRIVE EXTENSION.
8. 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" W4-W4 WELDED WIRE FABRIC WHEN PROPERLY AUTHORIZED BY THE PROPERTY OWNER WITH THE ENGINEER'S CONCURRENCE.
9. 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.

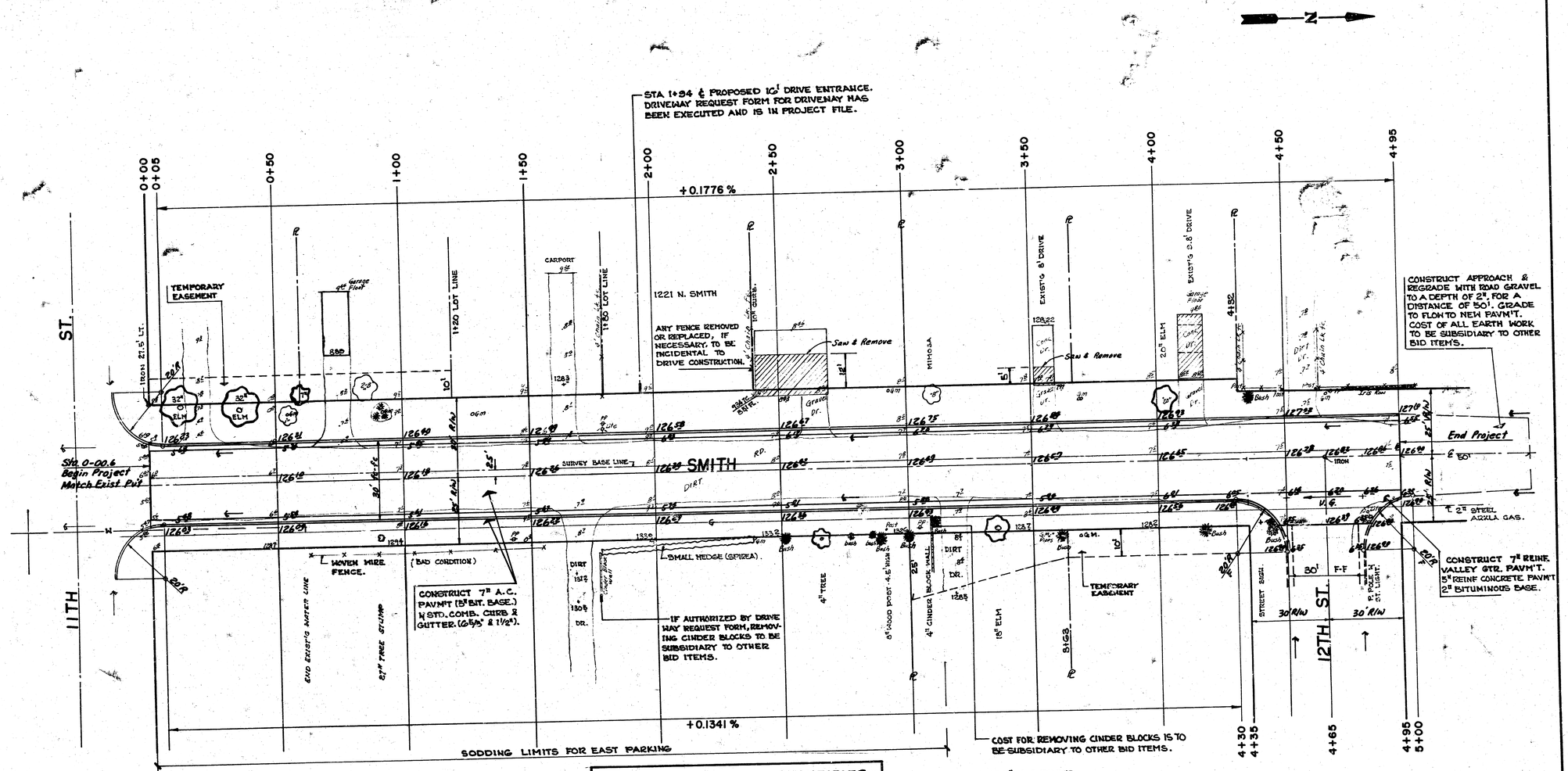
SCALE: 1"=5'

STANDARD DRIVE ENTRANCES
FULL HEIGHT CURB
CITY OF WICHITA, KANSAS

PROJECT NUMBER
472-76-245-81278-000-000-001

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B.M. 129.15 City Std. Disc, ℄ Curtis Extended & 2' South of S. R. of I-235 R.O.W.
B.M. 128.49 "M" Mueller Fire Hydrant, NE Cor. Anna & 11TH NO.
B.M. 128.36 RR Spk. S-fc. PP at NE Cor. Smith & 12TH NO.



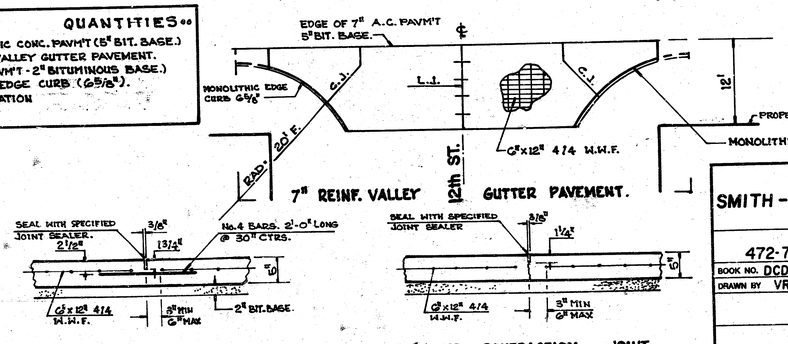
GENERAL NOTES

1. HIDENED GUTTER SECTION OF COMBINED CURB & GUTTER AT INTERSECTIONS WILL NOT BE PAID DIRECTLY, AND THIS COST SHALL BE CONSIDERED AS SUBSIDIARY TO THE OTHER CONTRACT PAY ITEMS OF WORK.
2. COST FOR POST REMOVAL TO BE SUBSIDIARY TO THE OTHER CONTRACT PAY ITEM'S OF WORK.
3. MAIL BOXES WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AS APPROVED BY T.E. ENGINEER. CONTRACTOR WILL BE REQUIRED TO MAKE SATISFACTORY PROVISIONS FOR MAIL DELIVERY TO PROPERTIES AFFECTED BY THIS PROJECT DURING CONSTRUCTION.
4. ALL PARKING AND TEMPORARY EASEMENT AREA'S NOT SODDED TO BE SEEDED WITH K-31 FESCUE, FERTILIZED AND MULCHED IN ACCORDANCE WITH CITY OF WICHITA STANDARD SPECIFICATIONS.

INTERSECTION QUANTITIES

80.7 SQ YDS 7" ASPHALTIC CONC. PAVM'T (5" BIT. BASE.)
65.3 SQ YDS 7" REINF. VALLEY GUTTER PAVEMENT. (5" REINF. CONC. PAVM'T - 2" BITUMINOUS BASE.)
31.8 L.F. MONOLITHIC EDGE CURB (G5⅝").
152.8 SQ YDS MANIPULATION
3.1 TONS CEMENT

EXCAVATION	1522.9	CU YDS
+ 10%	152.3	" "
TOTAL	1675.2	" "
SQ YDS MANIPULATION	1824	



LONGITUDINAL SAWED JOINT

SAWED CONTRACTION JOINT

PROJECT DESCRIPTION	SMITH - N.L. 11TH NO. to N.L. 12TH NO.
PROJECT NUMBER	472-76-245-81278-000-000-001
BOOK NO. DCD303	APPROVED BY / DATE
DRAWN BY VRH	REVISED
CITY ENGINEER M.E. LINDEBAK	SCALE 1" = 20'

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5/6

SMITH STREET
N.L. 11TH ST to N.L. 12TH ST.
PROJ. No. 472-TG-245-61278-000-000-001

SHEET TOTAL: 1522.3 CU YDS EXC