STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	164	534

PROJ. 54-87 KA-1164-01

GRADING
SURFACING
CONCRETE PAVEMENT
STORM SEWER
SANITARY SEWER
WATERLINE
GUARDRAIL
WALLS
BRIDGES
FENCING
SIGNING

STATE OF KANSAS

DEPARTMENT OF TRANSPORTATION

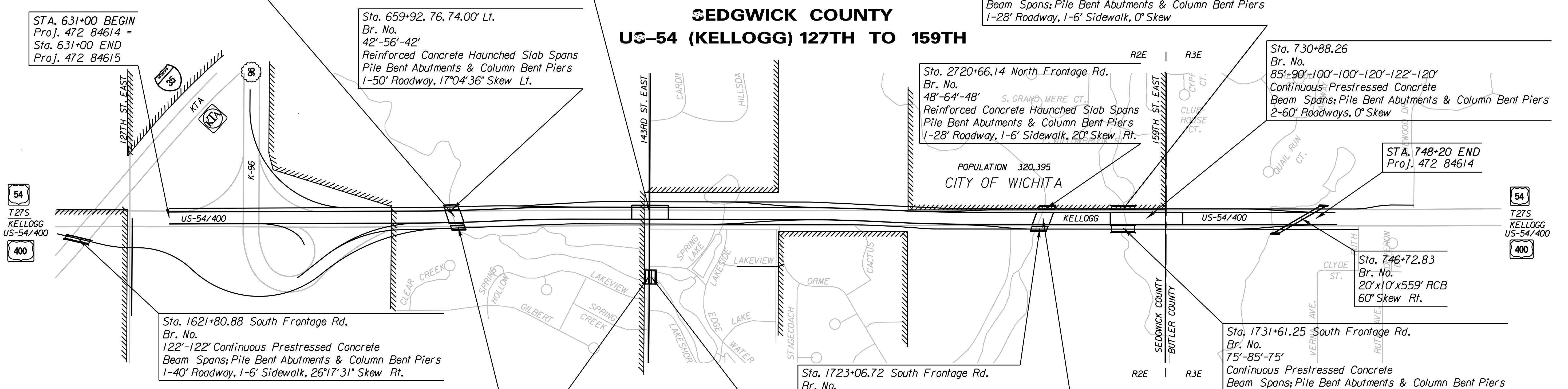
PLAN AND PROFILE OF PROPOSED
STATE HIGHWAY

CITY OF WICHITA
SEDGWICK COUNTY
US-54 (KELLOGG) 127TH TO 159TH

INDEX OF SHEETS

VOLUME 1 - ROADWAY, DRAINAGE, SEWER, WATER, GUARDRAIL
VOLUME 2 - RETAINING WALLS, BRIDGES, FENCING, SIGNING, CONSTRUCTION SEQUENCE, RIGHT-OF-WAY
VOLUME 3 - CROSS SECTIONS
SEE SHEET NO. 165 FOR INDEX SHEET

SCALE
500' 0 500' 1000'



STA. 631+00 BEGIN
Proj. 472 84614 =
Sta. 631+00 END
Proj. 472 84615

Sta. 660+15.49
Br. No.
46'-56'-46'
Continuous Prestressed Concrete
Beam Spans; Pile Bent Abutments & Column Bent Piers
1-60' & 1-68' Roadway, 17° Skew Lt.

Sta. 680+14.13
Br. No.
120'-130'-120'
Continuous Prestressed Concrete
Beam Spans; Pile Bent Abutments & Column Bent Piers
1-80' & 1-60' Roadway, 0° Skew

Sta. 659+92. 76, 74.00' Lt.
Br. No.
42'-56'-42'
Reinforced Concrete Haunched Slab Spans
Pile Bent Abutments & Column Bent Piers
1-50' Roadway, 17°04'36" Skew Lt.

Sta. 2728+49.61 North Frontage Rd.
Br. No.
75'-85'-75'
Continuous Prestressed Concrete
Beam Spans; Pile Bent Abutments & Column Bent Piers
1-28' Roadway, 1-6' Sidewalk, 0° Skew

Sta. 2720+66.14 North Frontage Rd.
Br. No.
48'-64'-48'
Reinforced Concrete Haunched Slab Spans
Pile Bent Abutments & Column Bent Piers
1-28' Roadway, 1-6' Sidewalk, 20° Skew Rt.

Sta. 730+88.26
Br. No.
85'-90'-100'-100'-120'-122'-120'
Continuous Prestressed Concrete
Beam Spans; Pile Bent Abutments & Column Bent Piers
2-60' Roadways, 0° Skew

STA. 748+20 END
Proj. 472 84614

Sta. 746+72.83
Br. No.
20'x10'x559' RCB
60° Skew Rt.

Sta. 1621+80.88 South Frontage Rd.
Br. No.
122'-122' Continuous Prestressed Concrete
Beam Spans; Pile Bent Abutments & Column Bent Piers
1-40' Roadway, 1-6' Sidewalk, 26°17'31" Skew Rt.

Sta. 1731+61.25 South Frontage Rd.
Br. No.
75'-85'-75'
Continuous Prestressed Concrete
Beam Spans; Pile Bent Abutments & Column Bent Piers
1-64' Roadway, 1-6' Sidewalk, 0° Skew

Sta. 1723+06.72 South Frontage Rd.
Br. No.
48'-64'-48'
Reinforced Concrete Haunched Slab Spans
Pile Bent Abutments & Column Bent Piers
1-40' Roadway, 1-6' Sidewalk, 20° Skew Rt.

Sta. 1663+61.08 South Frontage Rd.
Br. No.
42'-56'-42'
Reinforced Concrete Haunched Slab Spans
Pile Bent Abutments & Column Bent Piers
1-40' Roadway, 1-6' Sidewalk, 16°21'08" Skew Lt.

Sta. 56+50.56, 5.00' Rt. 143rd St. East
Br. No.
42'-56'-42'
Reinforced Concrete Haunched Slab Spans
Pile Bent Abutments & Column Bent Piers
1-37' Roadway, 1-6' Sidewalk, 0° Skew

Sta. 56+50.56, 21.00' Lt. 143rd St. East
Br. No.
42'-56'-42'
Reinforced Concrete Haunched Slab Spans
Pile Bent Abutments & Column Bent Piers
1-39' Roadway, 1-10' Sidewalk, 0° Skew

Sta. 720+30.99
Br. No.
52'-65'-52'
Continuous Prestressed Concrete
Beam Spans; Pile Bent Abutments & Column Bent Piers
2-60' Roadways, 20° Skew Rt.

DESIGN DESIGNATION

AADT (2010) = 31,100
AADT (2040) = 99,900
DHV = 7640 (EB&WB)
D = 0.52 (EB)
T = 8%
V = 70 MPH (US-54)
C of A = FULL
Clear Zone = 34' (US-54), 6' from Back Curb
(Fr. Rds. & Sideroads)

NOTE:
Traffic for US-54 to be carried through construction.
See Sheet No's. 235 - 260 for Construction Sequence.

GROSS LENGTH OF PROJECT	11,720.00	FT.	
EXCEPTIONS	0.00	FT.	
ADDITIONS	0.00	FT.	
NET LENGTH OF PROJECT	11,720.00	FT.	2.220 MILES
NET LENGTH OF BRIDGES	1,436.33	FT.	0.272 MILES
NET LENGTH OF ROAD	10,283.67	FT.	1.948 MILES

CONVENTIONAL SIGNS

COUNTY LINE
CITY LIMITS
STATE OR NATIONAL LINE
TOWNSHIP, SECTION or GRANT LINE
PROPERTY LINE
HIGHWAY FENCE
EXISTING FENCE
GUARD FENCE
CONSTRUCTION LIMITS
RIGHT OF WAY LINE
TRAVELED WAY
RAILROADS
CENTER LINE OF PROJECT
TERRACE
CULVERTS
DROP INLET & STORM SEWER
ACCESS CONTROL
POWER POLE
TELEPHONE POLE
MARSH
HEDGE
TREES
PROFILE ELEVATION
STREAM or CREEK

APPROVED - DATE

JIM ARMOUR, P.E., CITY ENGINEER
CITY OF WICHITA, KANSAS

PARSONS BRINCKERHOFF
Baughman
kwed
MKEC ENGINEERING CONSULTANTS, INC.
TranSystems
VICKI SCURI SITEWORKS

	BY	DATE
SURVEY		
CADD TECHNICIAN		
DESIGNERS		
SQUAD		

Drawn By : __ Plotted : 2/9/2011
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STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	:	165	534

~~VOLUME 1~~

~~1~~	~~Title Sheet~~
~~2~~	~~Index Sheet~~
~~3~~	~~General Notes~~
~~4-10~~	~~Typical Sections~~
~~11-30~~	~~Plan & Profile (Mainline)~~
~~31-66~~	~~Plan & Profile (Frontage Road)~~
~~67-72~~	~~Plan & Profile (Sideroad)~~
~~73-81~~	~~Benchmarks & Survey Coordinates~~
~~82-98~~	~~Plan & Profile (Ramp)~~
~~99-101~~	~~Intersection Details~~
~~102-109~~	~~Storm Sewer Plan & Profile (Mainline)~~
~~110-126~~	~~Storm Sewer Plan & Profile (Frontage Road)~~
~~127-130~~	~~Storm Sewer Plan & Profile (Sideroad)~~
~~131~~	~~Drainage Data Sheet~~
~~132-135~~	~~Schedule of Inlets and Manholes~~
~~136-139~~	~~Sanitary Sewer Plan & Profile~~
~~140-158~~	~~Water Plan & Profile (Mainline)~~
~~159-162~~	~~Water Plan & Profile (Sideroad)~~
~~163~~	~~Guardrail~~

VOLUME 2

164	Title Sheet
165	Index
166-179	Retaining Walls
180-182	Bridge No. (South Frontage Road over KTA/I-35)
183-189	Bridge No. (Kellogg and Frontage Roads over Spring Branch Trib. #4)
190-192	Bridge No. (Kellogg over 143rd St.)
193-199	Bridge No. (Kellogg and Frontage Roads over Fourmile Creek)
200-208	Bridge No. (Kellogg and Frontage Roads over Brookhaven Creek and 159th St.)
209-213	Bridge No. (143rd St. over Spring Branch Trib. #4)
214	Bridge No. (Kellogg over Green Valley Tributary)
215-218	Fencing
219-223	Summary of Quantities
224-234	Signing
235-260	Construction Sequence
261-262	Traffic Volume
263-279	Right-of-Way
280	Drainage Maps

~~VOLUME 3~~

~~281~~	~~Title Sheet~~
~~282~~	~~Index Sheet~~
~~283-375~~	~~Cross Sections (Mainline)~~
~~376-408~~	~~Cross Sections (Ramps)~~
~~409-506~~	~~Cross Sections (Frontage Roads)~~
~~507-516~~	~~Cross Sections (Sideroads)~~
~~517-534~~	~~Cross Sections (Channel)~~

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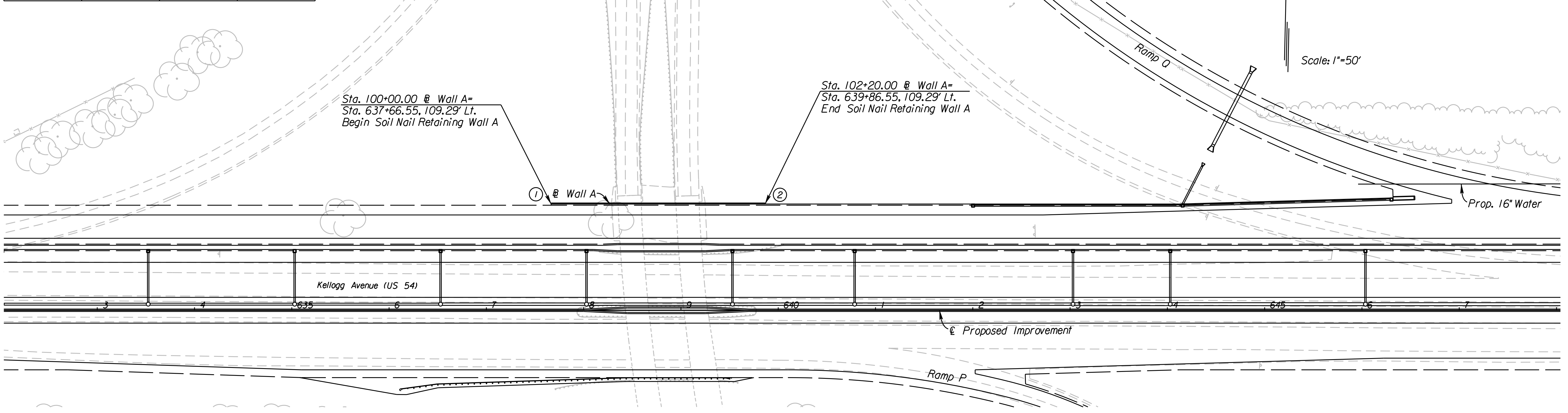
SURV. - PLOT - CADD - DES. - DR. - TR. - CKD. - APP. -

CITY OF WICHITA

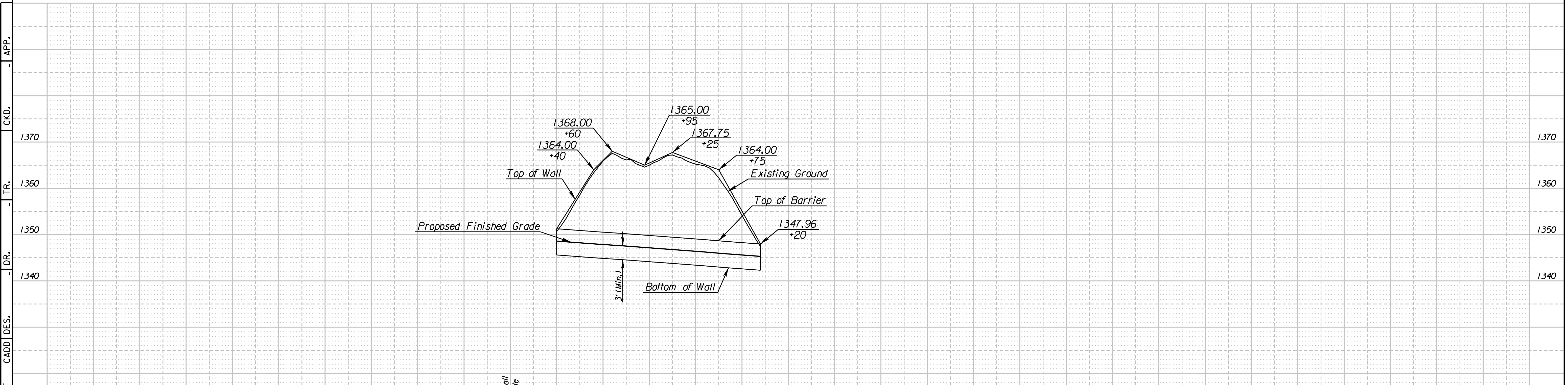
INDEX SHEET

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	166	534

WALL ALIGNMENT DATA			
POINT NO. ○	P.I. STA.	NORTHING	EASTING
1	100+00.00	1684059.7247	1692804.2706
2	102+20.00	1684064.6173	1693024.2162



Note:
All Station and Offsets are to Front Face of Wall



	Top of Wall	Fin. Grade	Ex. Ground
100	1351.26	1348.59	1350.67
	1359.22	1348.22	1358.55
	1366.00	1347.85	1365.87
	1366.71	1347.51	1366.13
1	1365.46	1347.14	1365.00
	1367.75	1346.76	1367.20
	1365.88	1346.39	1365.22
	1364.00	1345.98	1362.22
2	1355.09	1345.59	1354.13

CITY OF WICHITA

SOIL NAIL RETAINING WALL A

PLAN & PROFILE

STA. 100+00 TO STA. 102+20

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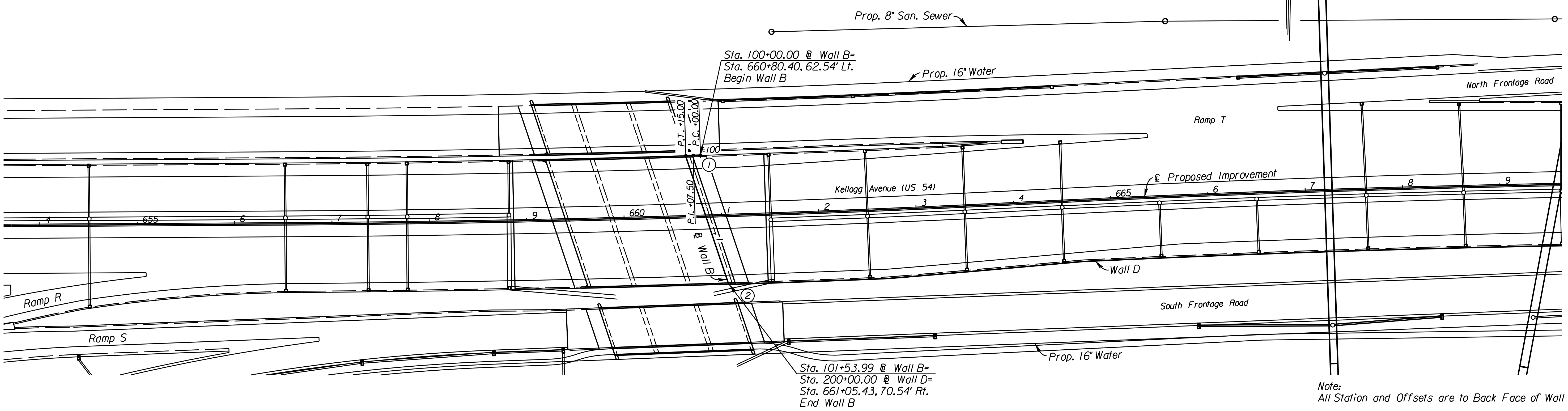
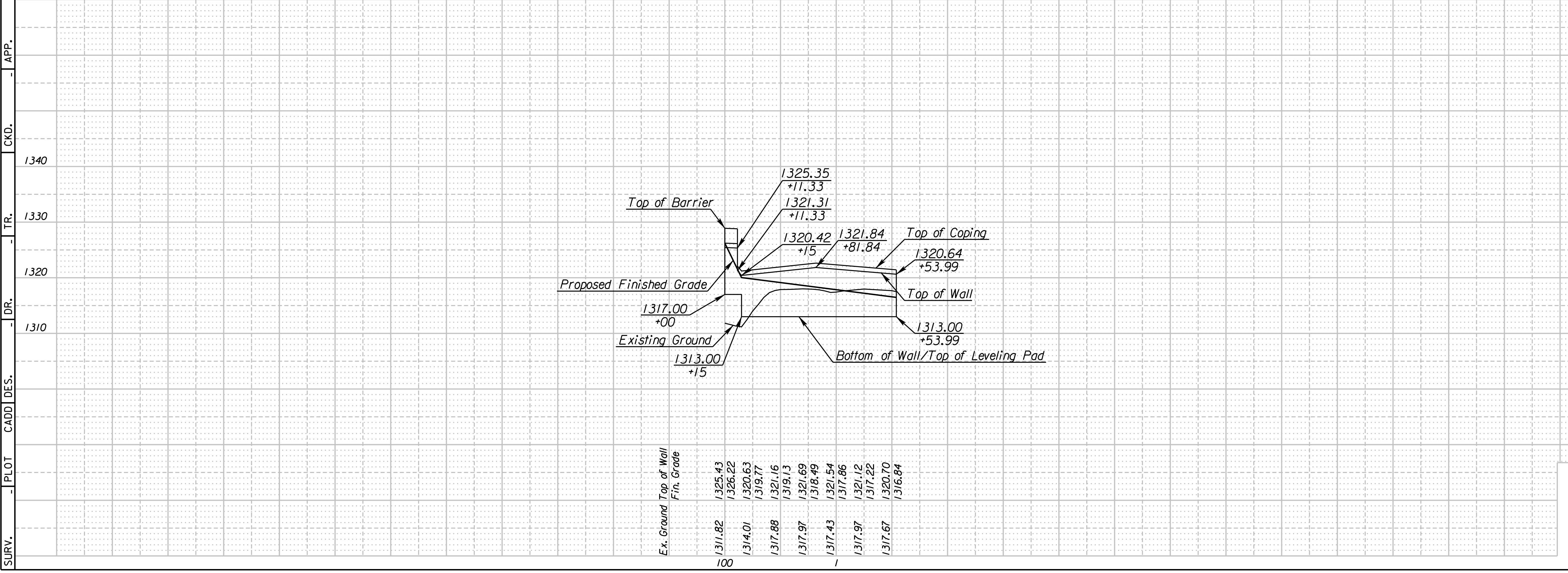
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	167	534

WALL ALIGNMENT DATA

CURVE/PT. NO. ○	P.I. STA. (BK.)	P.I. STA. (AH.)	NORTHING	EASTING	DELTA (DMS)	RADIUS (ft)	TANGENT (ft)	LENGTH (ft)	EXTERNAL (ft)	PC			PT		
										STATION	NORTHING	EASTING	STATION	NORTHING	EASTING
1	100+07.50	100+07.50	1684069.3996	1695109.3647	00°03'02.67" Rt.	16937.46	7.50	15.00	0.00	100+00.00	1684069.7548	1695116.8563	100+15.00	1684069.0509	1695101.8728
2	101+53.99		1683938.0298	1695148.2605											



Note:
All Station and Offsets are to Back Face of Wall



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CITY OF WICHITA

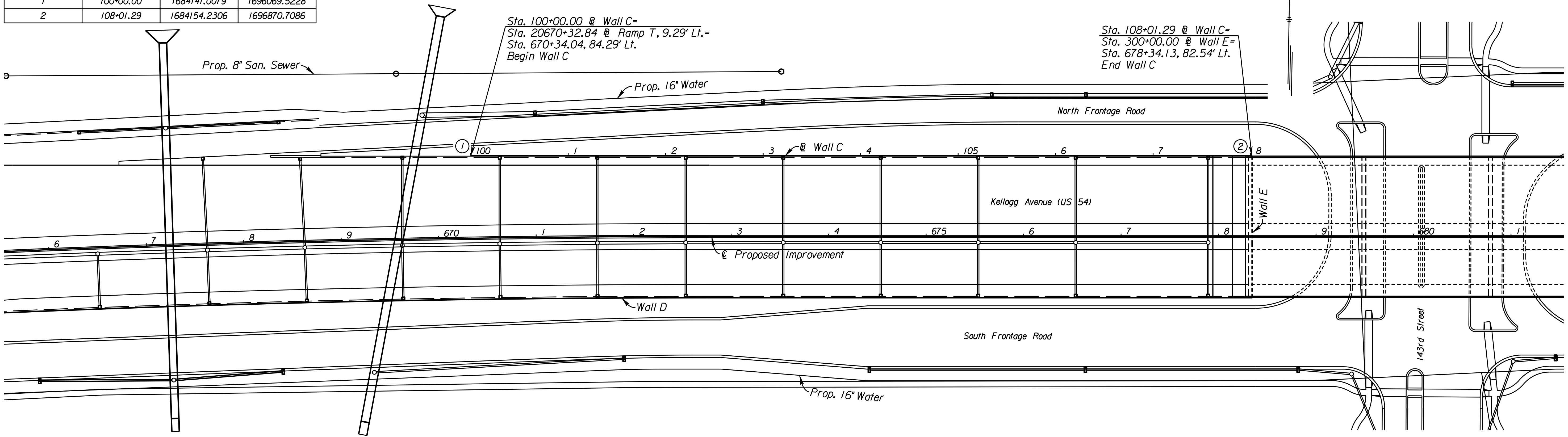
MSE RETAINING WALL B

PLAN & PROFILE

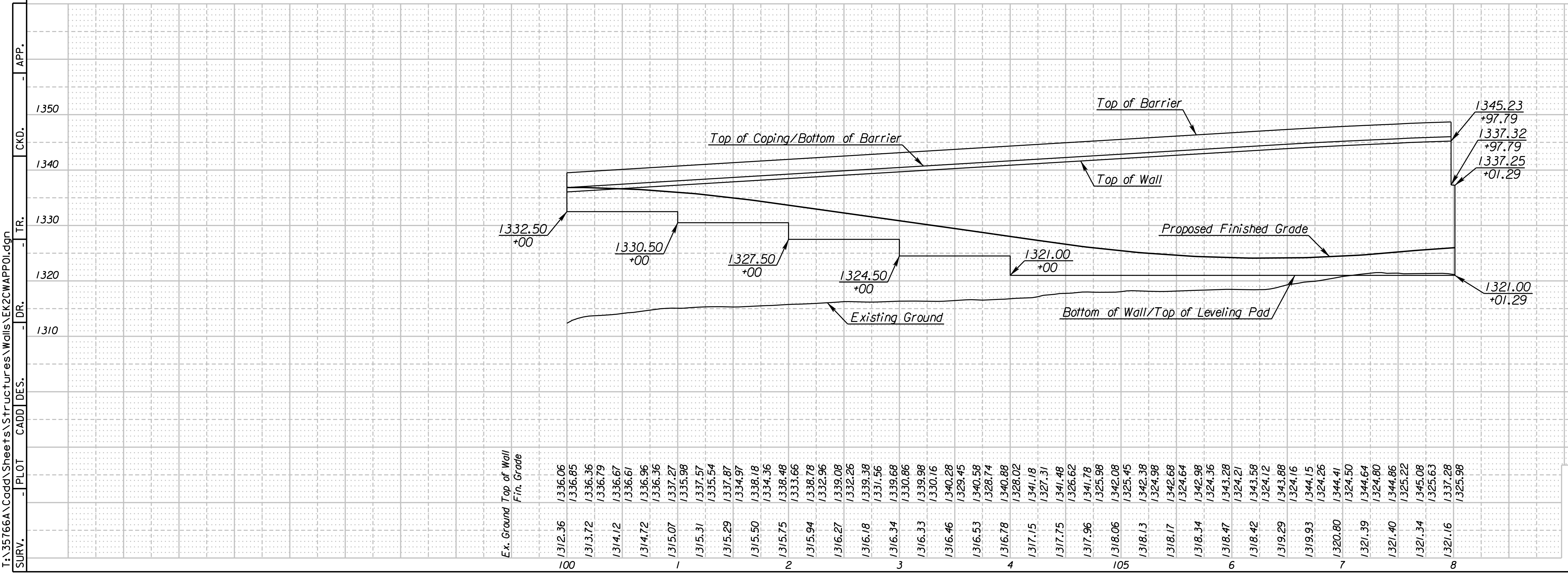
STA. 100+00 TO STA. 101+53.99

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	168	534

WALL ALIGNMENT DATA			
POINT NO. ○	P.I. STA.	NORTHING	EASTING
1	100+00.00	1684141.0079	1696069.5228
2	108+01.29	1684154.2306	1696870.7086



Note:
All Station and Offsets are to Back Face of Wall



1350
1340
1330
1320
1310

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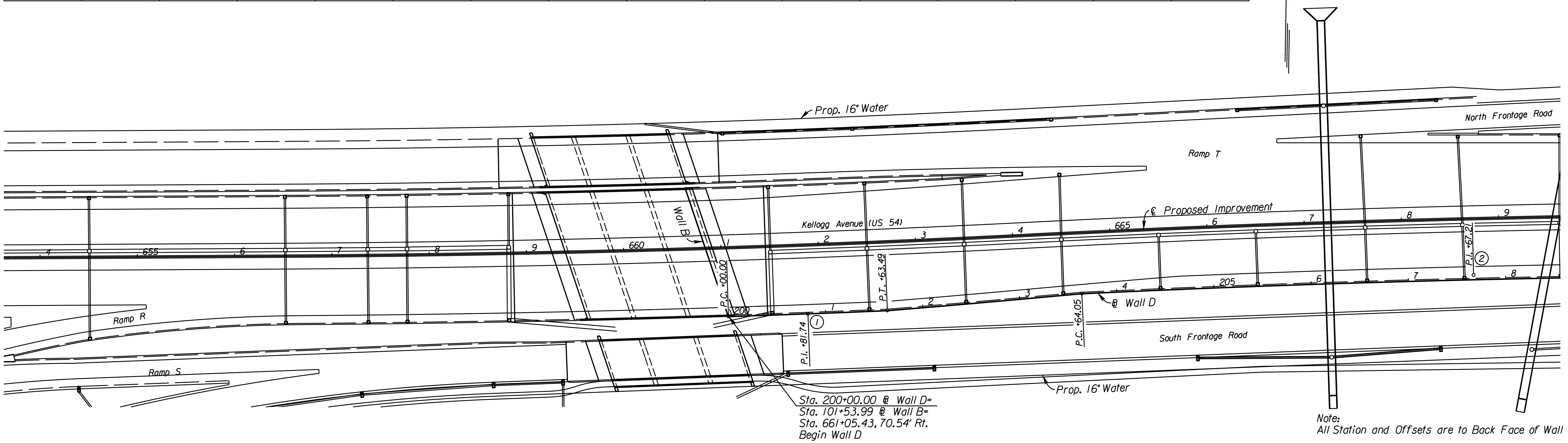
CITY OF WICHITA
MSE RETAINING WALL C
PLAN & PROFILE
STA. 100+00 TO STA. 108+01.29

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	169	534

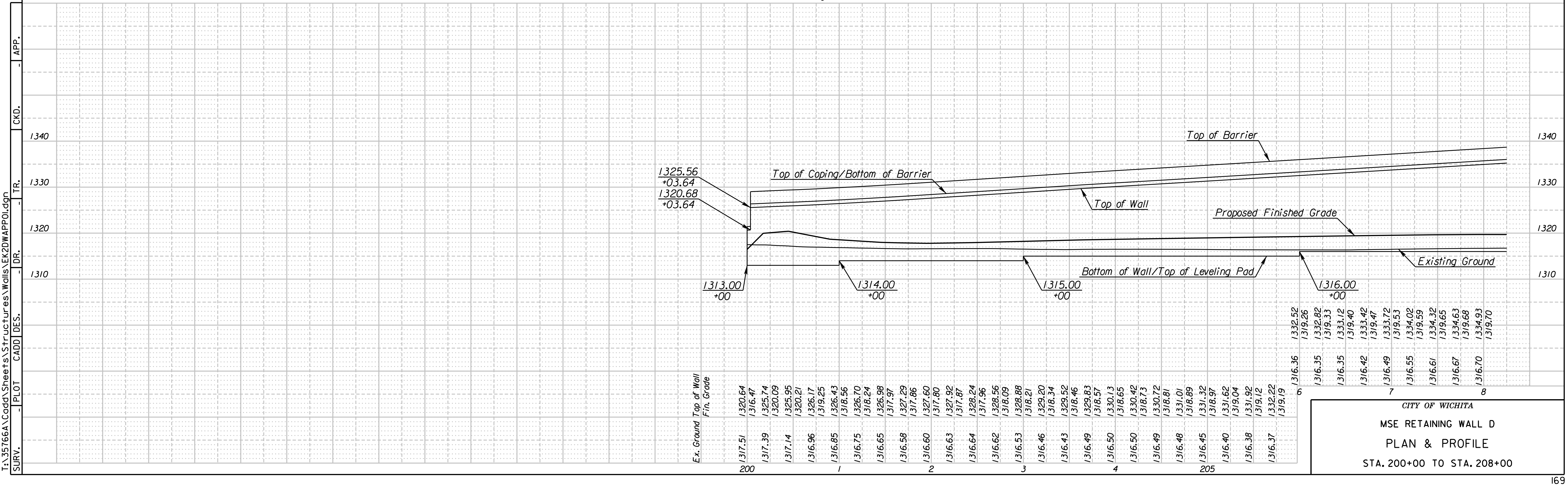
WALL ALIGNMENT DATA

CURVE/PT. NO. ○	P.I. STA. (BK.)	P.I. STA. (AH.)	NORTHING	EASTING	DELTA (DMS)	RADIUS (ft)	TANGENT (ft)	LENGTH (ft)	EXTERNAL (ft)	PC STATION	PC NORTHING	PC EASTING	PT STATION	PT NORTHING	PT EASTING
1	200+81.74	200+81.75	1683942.0223	1695229.9079	00°32'55.45" Lt.	17070.54	81.74	163.49	0.20	200+00.00	1683938.0298	1695148.2605	201+63.49	1683946.7966	1695311.5133
2	207+67.21	207+67.06	1683993.3271	1695913.3344	02°43'37.64" Rt.	16937.46	403.16	806.17	4.80	203+64.05	1683967.5021	1695510.9979	211+70.22	1683999.9799	1696316.4440



Sta. 200+00.00 @ Wall D=
Sta. 101+53.99 @ Wall B=
Sta. 661+05.43, 70.54' Rt.
Begin Wall D

Note:
All Station and Offsets are to Back Face of Wall



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CITY OF WICHITA

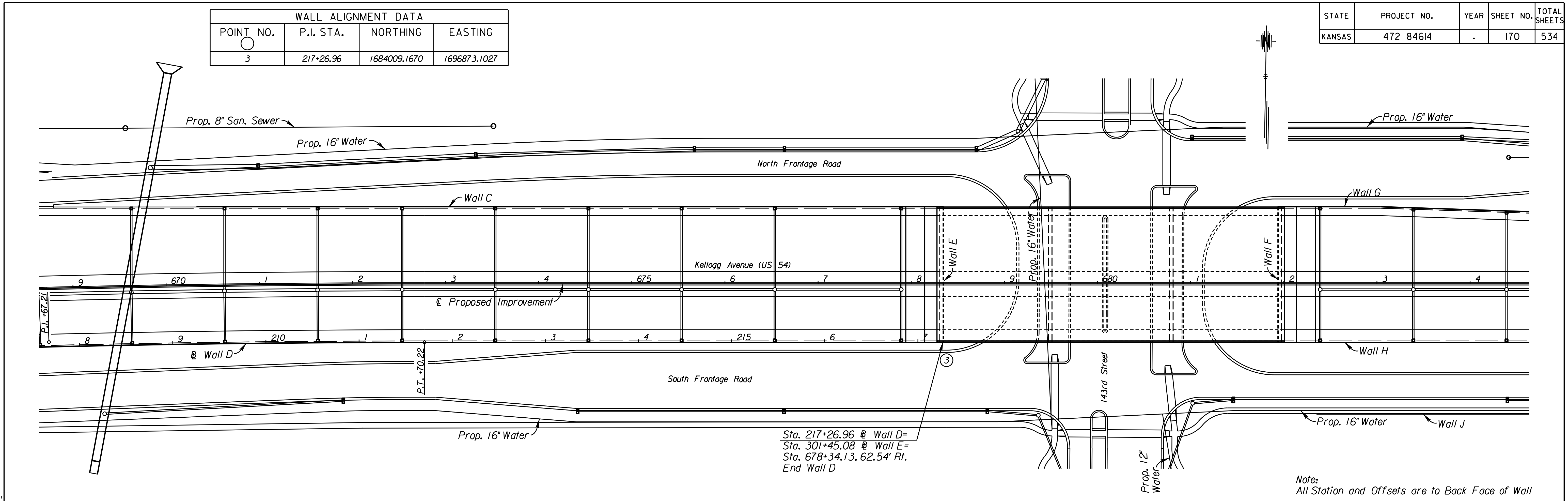
MSE RETAINING WALL D

PLAN & PROFILE

STA. 200+00 TO STA. 208+00

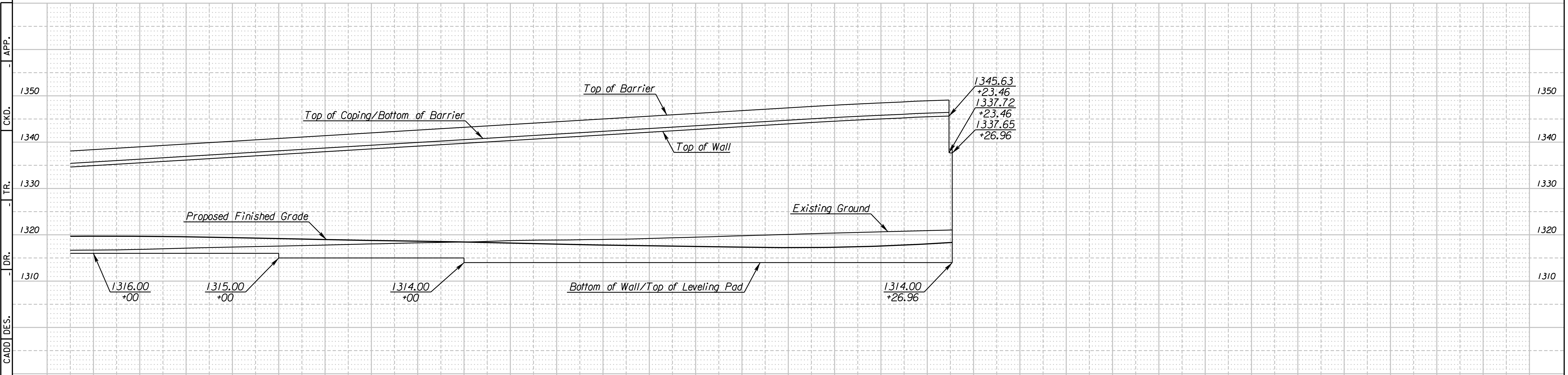
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	170	534

WALL ALIGNMENT DATA			
POINT NO. ○	P.I. STA.	NORTHING	EASTING
3	217+26.96	1684009.1670	1696873.1027



Sta. 217+26.96 ℄ Wall D=
Sta. 301+45.08 ℄ Wall E=
Sta. 678+34.13, 62.54' Rt.
End Wall D

Note:
All Station and Offsets are to Back Face of Wall



	Ex. Ground	Top of Wall	Fin. Grade
8	1316.70	1334.93	1319.70
	1316.73	1335.23	1319.69
	1316.85	1335.53	1319.67
	1316.98	1335.83	1319.63
9	1317.12	1336.13	1319.57
	1317.24	1336.43	1319.48
	1317.35	1336.74	1319.39
	1317.46	1337.04	1319.29
210	1317.56	1337.34	1319.18
	1317.67	1337.64	1319.08
	1317.79	1337.94	1318.98
	1317.91	1338.24	1318.87
1	1318.04	1338.55	1318.78
	1318.15	1338.85	1318.70
	1318.27	1339.15	1318.62
	1318.36	1339.45	1318.54
2	1318.45	1339.75	1318.44
	1318.57	1340.05	1318.33
	1318.74	1340.35	1318.21
	1318.83	1340.65	1318.10
3	1318.87	1340.95	1317.99
	1318.93	1341.25	1317.88
	1318.99	1341.55	1317.78
	1319.06	1341.85	1317.71
4	1319.21	1342.15	1317.63
	1319.36	1342.45	1317.56
	1319.49	1342.75	1317.48
	1319.63	1343.05	1317.41
215	1319.79	1343.35	1317.34
	1319.93	1343.65	1317.28
	1320.08	1343.95	1317.24
	1320.23	1344.24	1317.26
6	1320.38	1344.52	1317.31
	1320.51	1344.78	1317.43
	1320.64	1345.01	1317.58
	1320.77	1345.24	1317.80
7	1320.90	1345.47	1318.04
	1321.03	1337.69	1318.33

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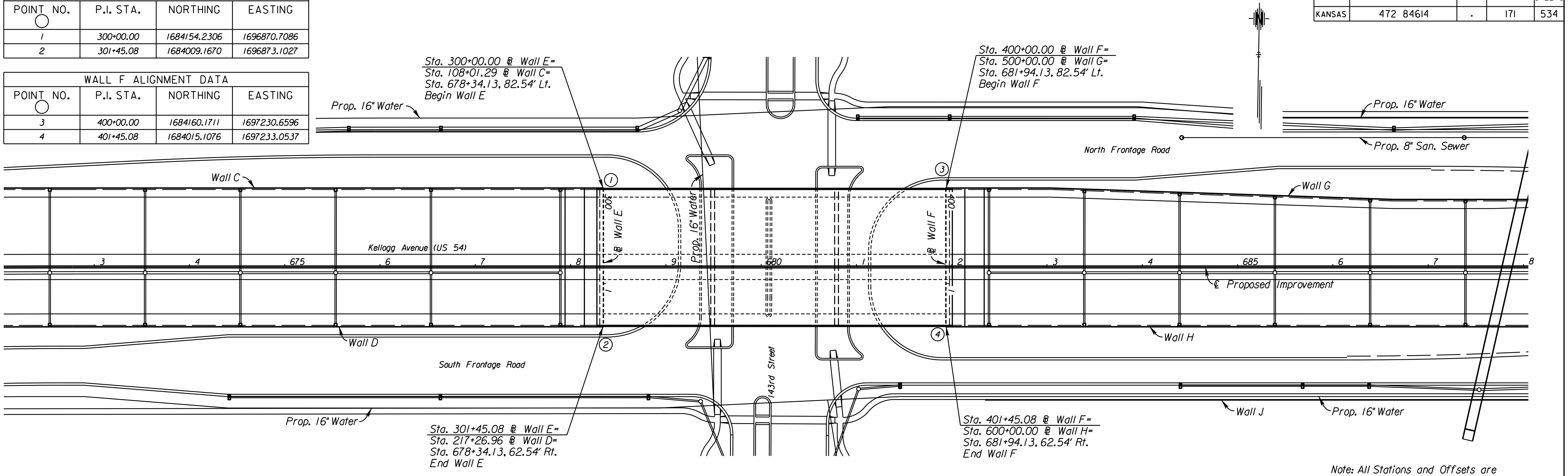
CITY OF WICHITA
MSE RETAINING WALL D
PLAN & PROFILE
STA. 208+00 TO STA. 217+26.96

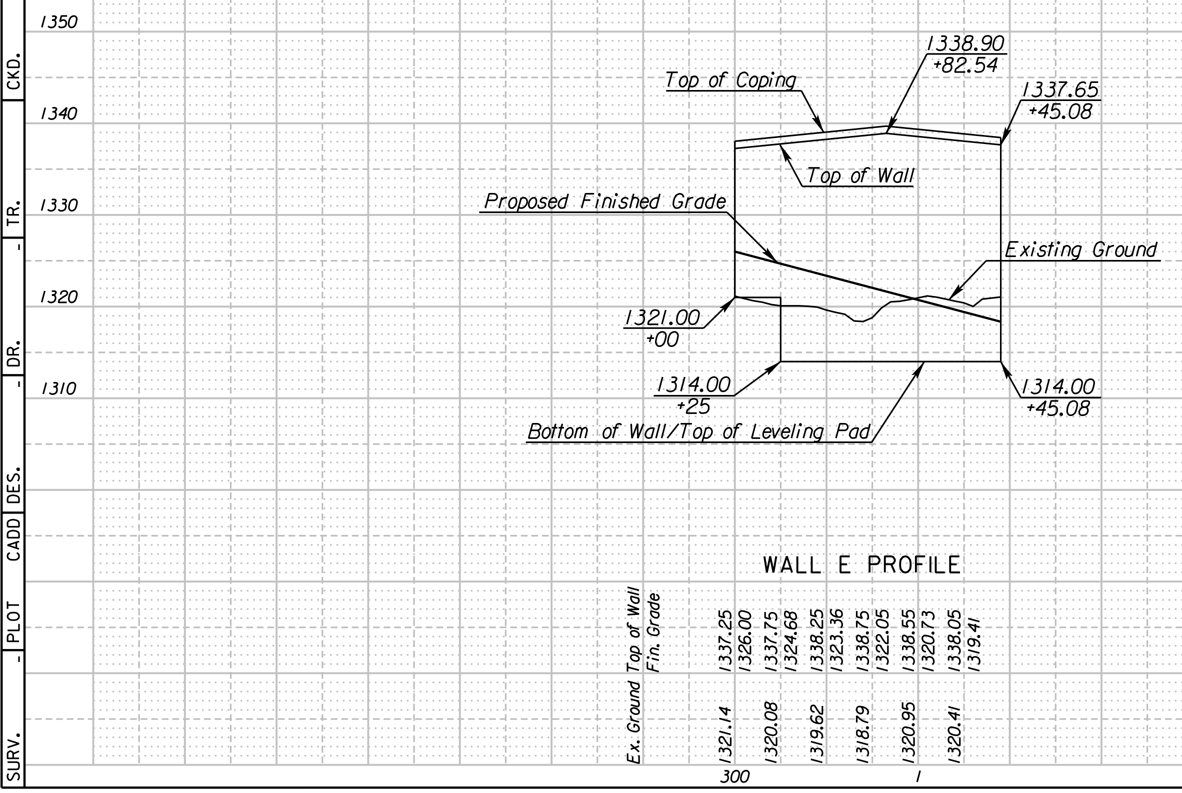
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	171	534

WALL E ALIGNMENT DATA			
POINT NO. ○	P.I. STA.	NORTHING	EASTING
1	300+00.00	1684154.2306	1696870.7086
2	301+45.08	1684009.1670	1696873.1027

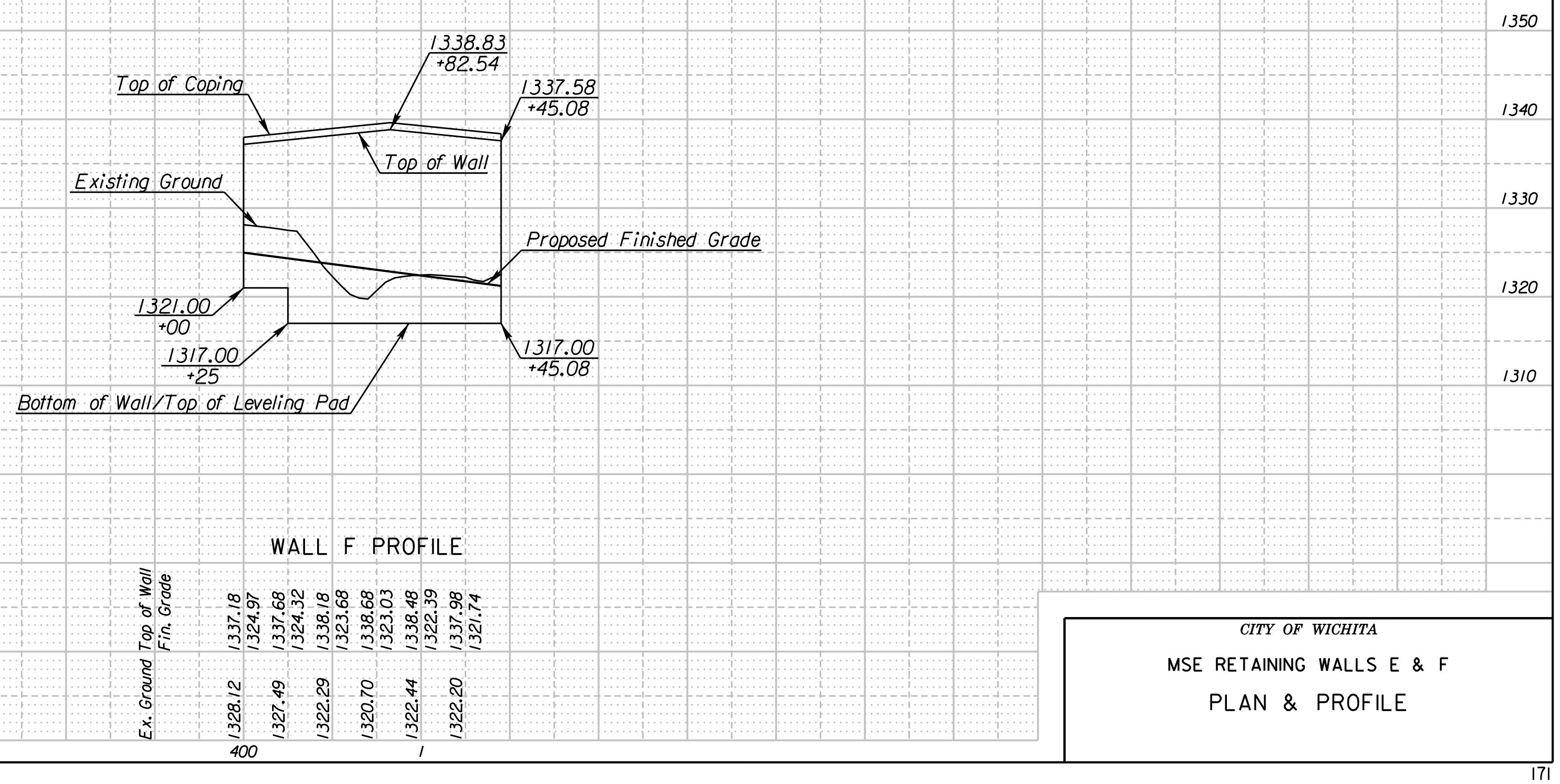
WALL F ALIGNMENT DATA			
POINT NO. ○	P.I. STA.	NORTHING	EASTING
3	400+00.00	1684160.1711	1697230.6596
4	401+45.08	1684015.1076	1697233.0537



Note: All Stations and Offsets are to Back/Front Face of Wall.



WALL E PROFILE



WALL F PROFILE

CITY OF WICHITA

MSE RETAINING WALLS E & F

PLAN & PROFILE

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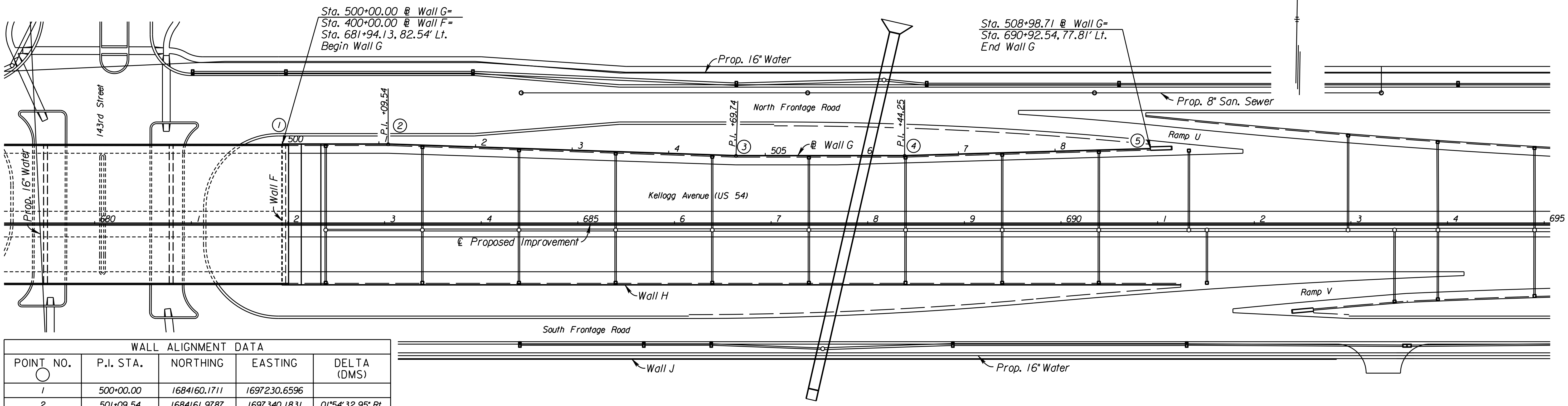
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	172	534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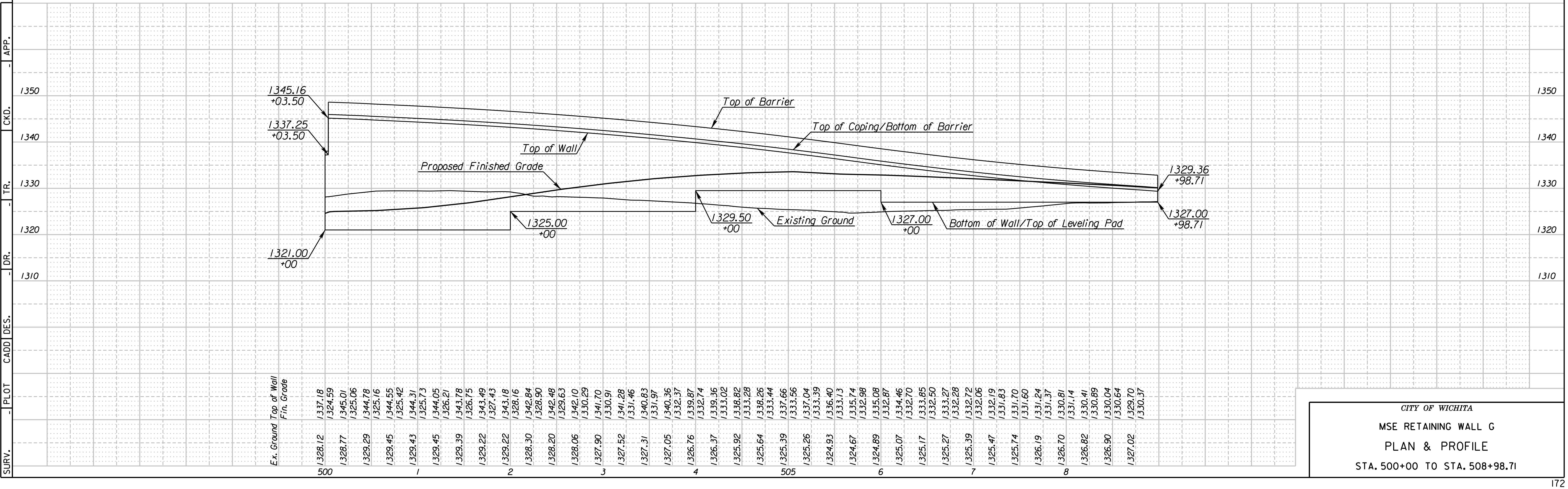
Sta. 400+00.00 ℄ Wall F=
Sta. 681+94.13, 82.54′ Lt.
Begin Wall G

Sta. 508+98.71 ℄ Wall G=
Sta. 690+92.54, 77.81′ Lt.
End Wall G

WALL ALIGNMENT DATA				
POINT NO. ○	P.I. STA.	NORTHING	EASTING	DELTA (DMS)
1	500+00.00	1684160.1711	1697230.6596	
2	501+09.54	1684161.9787	1697340.1831	01°54′32.95" Rt.
3	504+69.74	1684155.9209	1697700.3321	01°54′32.95" Lt.
4	506+89.48	1684159.5470	1697920.0432	01°38′11.68" Lt.
5	508+98.71	1684170.2643	1698129.0235	

Note:
All Station and Offsets are to Back Face of Wall



APP. | CKD. | TR. | DR. | DES. | CADD | PLOT | SURV.

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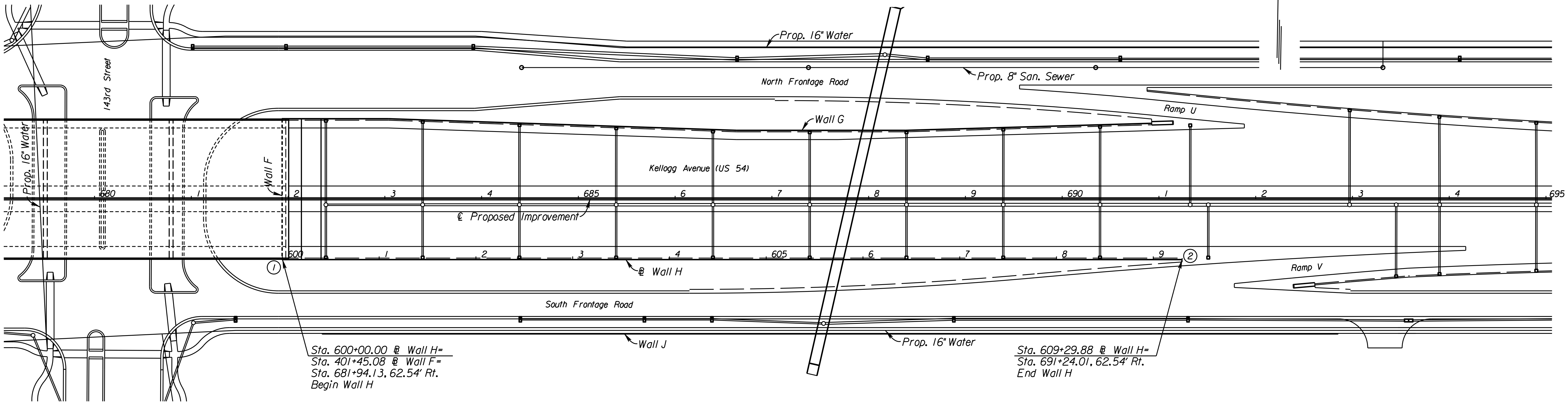
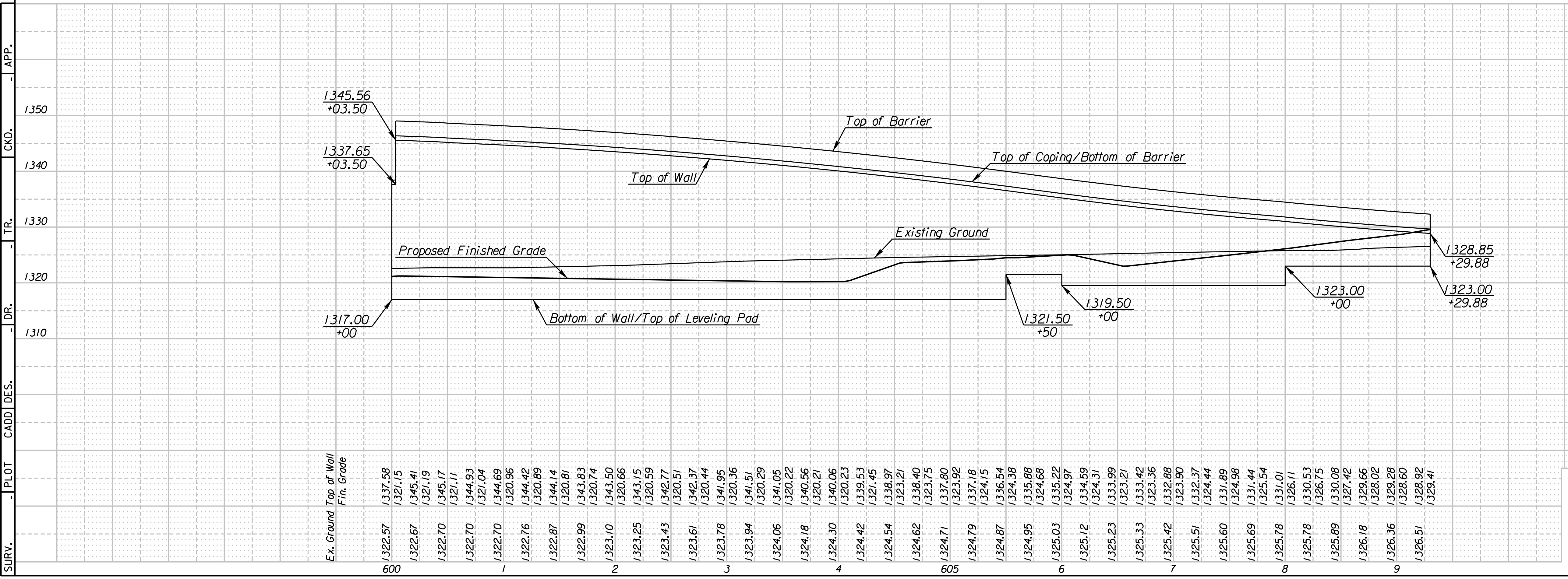
CITY OF WICHITA
MSE RETAINING WALL G
PLAN & PROFILE
STA. 500+00 TO STA. 508+98.71

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	173	534

WALL ALIGNMENT DATA			
POINT NO. ○	P.I. STA.	NORTHING	EASTING
1	600+00.00	1684015.1076	1697233.0537
2	609+29.88	1684030.4521	1698162.8032



Note:
All Station and Offsets are to Back Face of Wall



CITY OF WICHITA

MSE RETAINING WALL H

PLAN & PROFILE

STA. 600+00 TO STA. 609+29.88

SURV.	-	PLOT	CADD	DES.	-	DR.	-	TR.	-	CKD.	-	APP.	-

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2/9/2011
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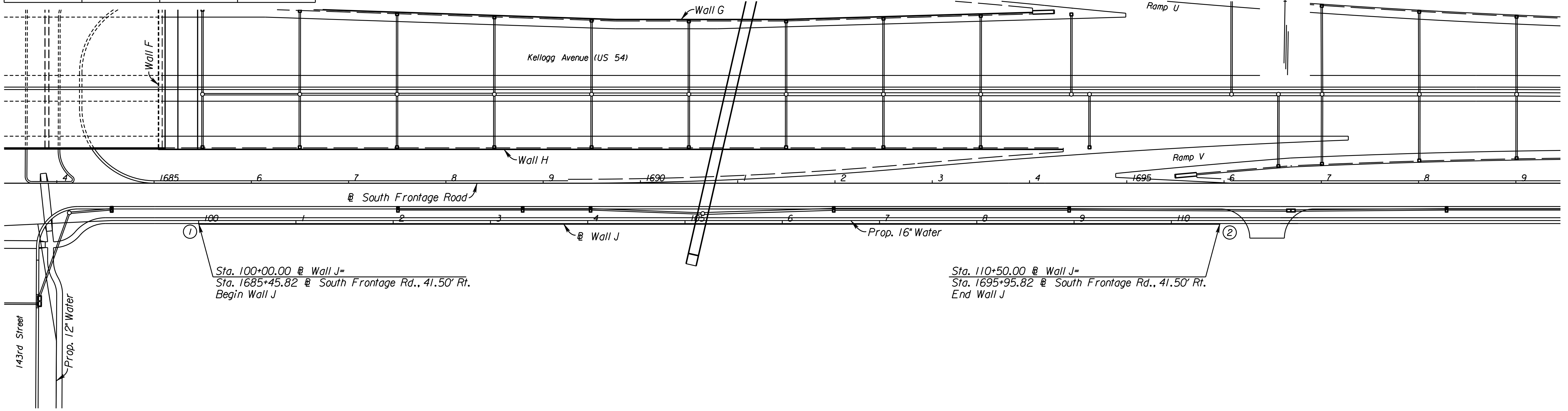
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	174	534

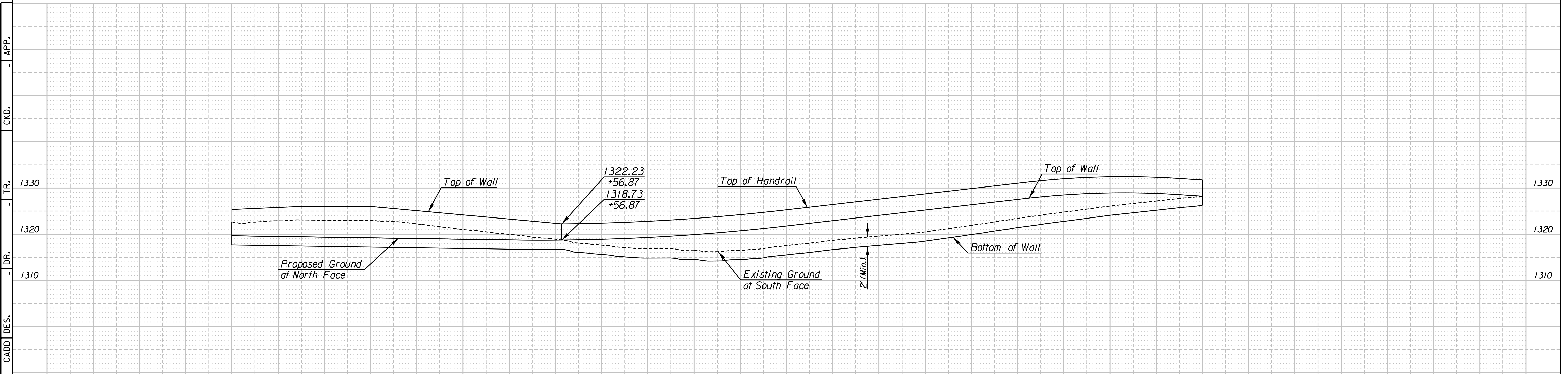
WALL ALIGNMENT DATA			
POINT NO. ○	P.I. STA.	NORTHING	EASTING
1	100+00.00	1683939.2319	1697275.2996
2	110+50.00	1683956.5586	1698325.1567



Sta. 100+00.00 ℄ Wall J=
Sta. 1685+45.82 ℄ South Frontage Rd., 41.50' Rt.
Begin Wall J

Sta. 110+50.00 ℄ Wall J=
Sta. 1695+95.82 ℄ South Frontage Rd., 41.50' Rt.
End Wall J

Note:
All Station and Offsets are to North Face of Wall



	Top of Wall	Ground at North Face	Ground at South Face
100	1325.34	1319.65	1322.68
	1325.56	1319.58	1322.62
	1325.78	1319.50	1322.89
	1326.00	1319.43	1323.09
1	1326.00	1319.35	1323.03
	1326.00	1319.28	1322.97
	1326.00	1319.20	1322.98
	1325.54	1319.13	1322.73
2	1325.09	1319.05	1322.22
	1324.63	1318.98	1321.62
	1324.18	1318.90	1321.00
	1323.72	1318.83	1320.49
3	1323.26	1318.75	1319.95
	1322.81	1318.71	1319.36
	1322.35	1318.72	1318.91
	1318.78	1318.78	1318.07
4	1318.89	1318.89	1317.62
	1319.07	1319.07	1317.09
	1319.29	1319.29	1316.85
	1319.57	1319.57	1316.86
105	1319.90	1319.90	1316.57
	1320.29	1320.29	1316.81
	1320.73	1320.73	1316.49
	1321.23	1321.23	1316.87
6	1321.78	1321.78	1317.52
	1322.35	1322.35	1318.05
	1322.93	1322.93	1318.66
	1323.50	1323.50	1319.16
7	1324.08	1324.08	1319.58
	1324.65	1324.65	1320.00
	1325.23	1325.23	1320.49
	1325.80	1325.80	1321.20
8	1326.38	1326.38	1321.92
	1326.95	1326.95	1322.67
	1327.53	1327.53	1323.43
	1328.07	1328.07	1324.10
9	1328.49	1328.49	1324.78
	1328.78	1328.78	1325.42
	1328.93	1328.93	1326.10
	1328.94	1328.94	1326.64
110	1328.82	1328.82	1327.18
	1328.56	1328.56	1327.73
	1328.24	1328.24	1328.22

CITY OF WICHITA

T-TYPE RETAINING WALL J

PLAN & PROFILE

STA. 100+00 TO STA. 110+50

SURV.	-	PLOT	CADD	DES.	-	DR.	-	TR.	-	CKD.	-	APP.

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2/9/2011
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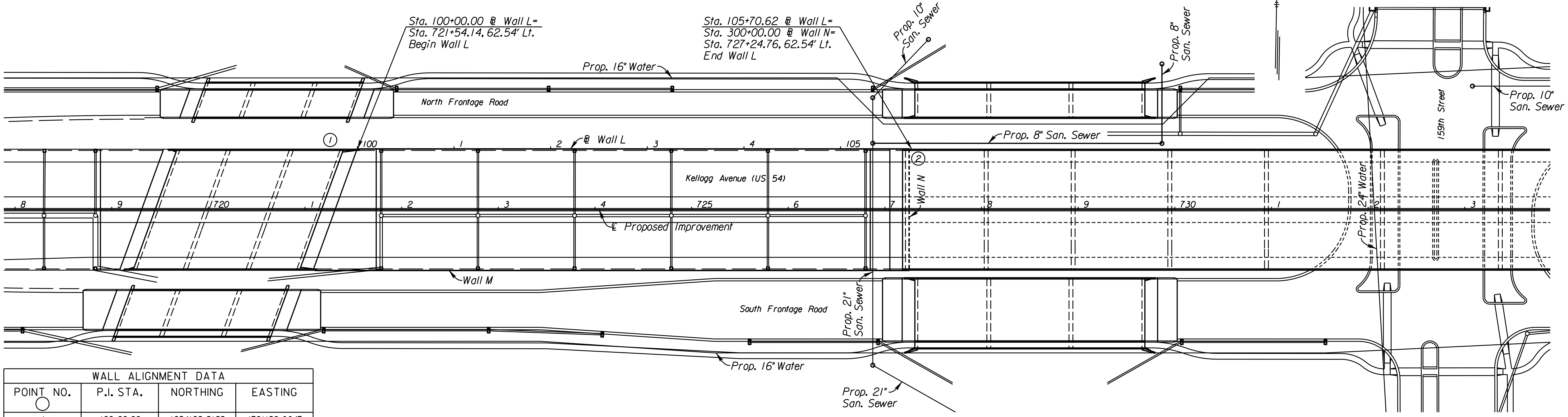
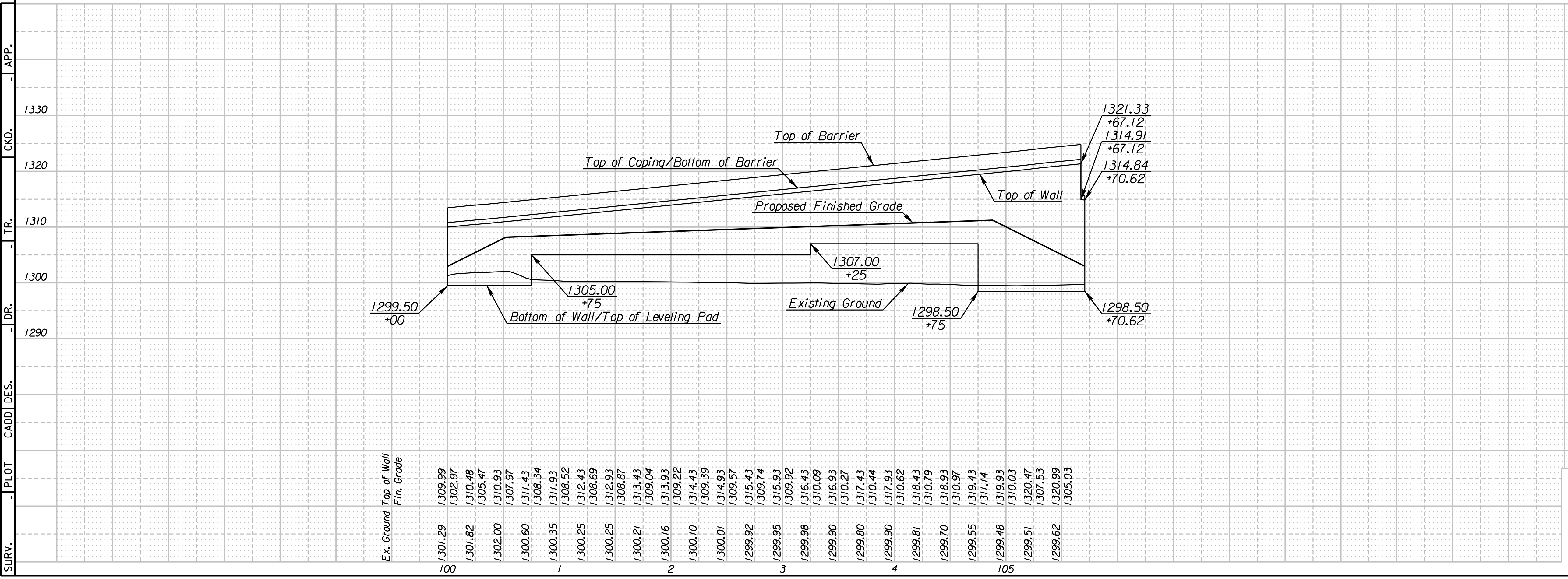
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	175	534



WALL ALIGNMENT DATA			
POINT NO. ○	P.I. STA.	NORTHING	EASTING
1	100+00.00	1684162.2129	1701190.3347
2	105+70.62	1684172.3591	1701760.8646

Note:
All Station and Offsets are to Back Face of Wall



CITY OF WICHITA

MSE RETAINING WALL L

PLAN & PROFILE

STA. 100+00 TO STA. 105+70.62

SURV. | PLOT | CADD | DES. | DR. | TR. | CKD. | APP.

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2/9/2011
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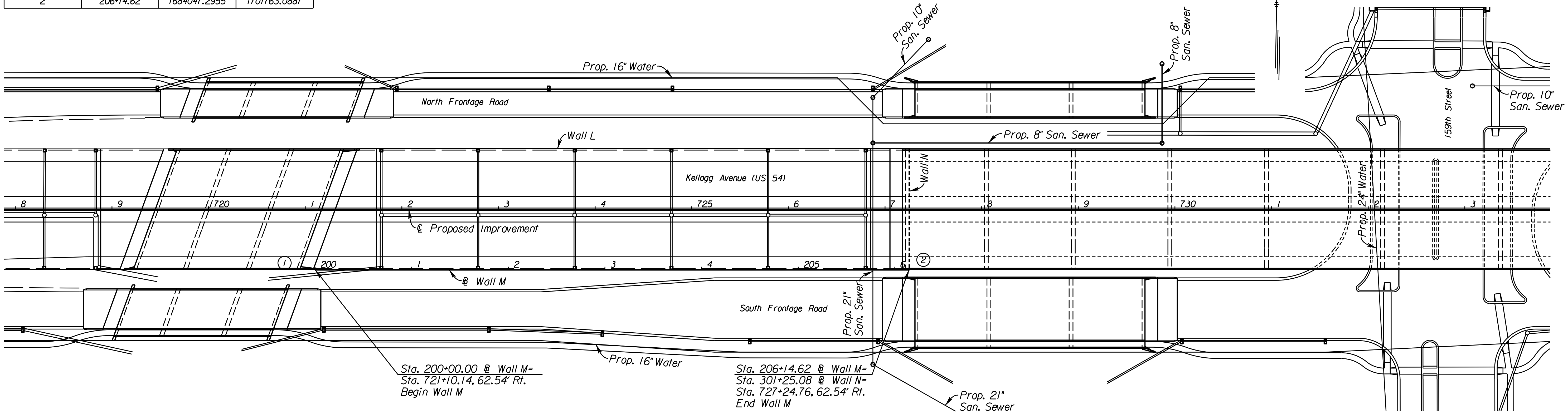
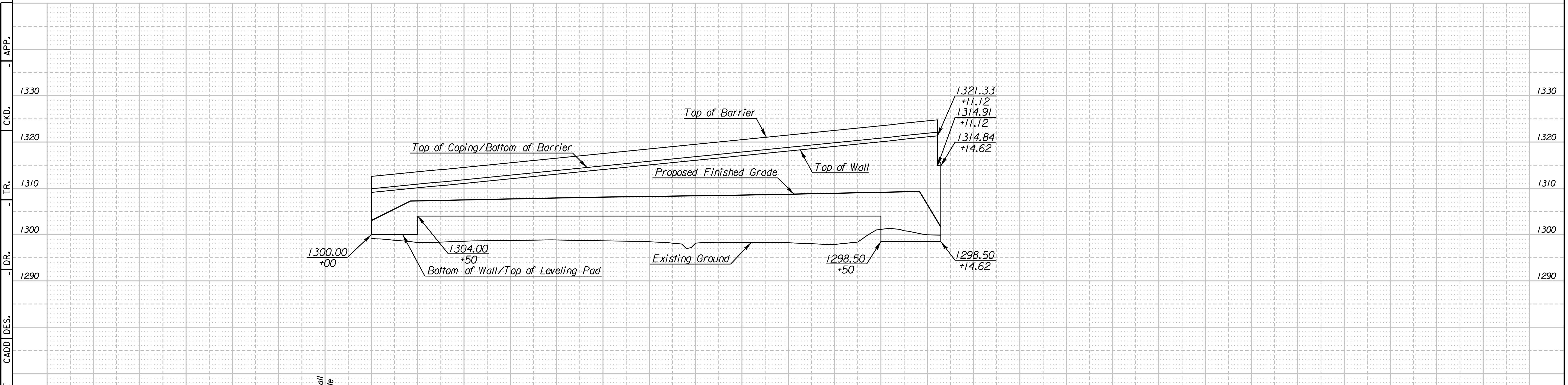
WALL ALIGNMENT DATA			
POINT NO. ○	P.I. STA.	NORTHING	EASTING
1	200+00.00	1684036.3671	1701148.5695
2	206+14.62	1684047.2955	1701763.0887

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	176	534



Note:
All Station and Offsets are to Back Face of Wall



	Ex. Ground	Top of Wall	Fin. Grade
200	1299.15	1309.12	1303.03
	1298.77	1309.61	1305.53
	1298.30	1310.11	1307.28
	1298.38	1310.57	1307.38
1	1298.57	1311.05	1307.49
	1298.67	1311.55	1307.59
	1298.72	1312.05	1307.70
	1298.80	1312.55	1307.80
2	1298.83	1313.05	1307.91
	1298.73	1313.55	1308.01
	1298.65	1314.05	1308.10
	1298.58	1314.55	1308.17
3	1298.44	1315.05	1308.24
	1298.15	1315.55	1308.31
	1298.16	1316.05	1308.38
	1298.22	1316.55	1308.46
4	1298.27	1317.05	1308.53
	1298.29	1317.55	1308.62
	1298.24	1318.05	1308.72
	1298.02	1318.55	1308.82
205	1297.87	1319.05	1308.93
	1298.39	1319.55	1309.03
	1301.12	1320.05	1309.14
	1300.83	1320.61	1309.24
6	1299.96	1321.11	1306.52

CITY OF WICHITA

MSE RETAINING WALL M

PLAN & PROFILE

STA. 200+00 TO STA. 206+14.62

SURV. - PLOT - CADD DES. - DR. - TR. - CKD. - APP. -

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2/9/2011
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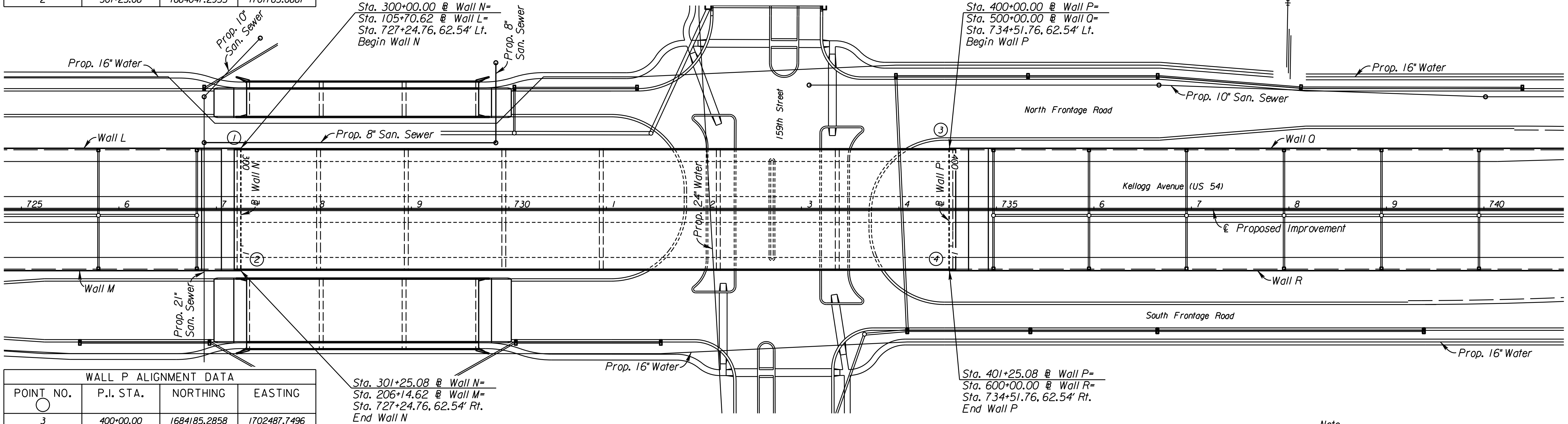
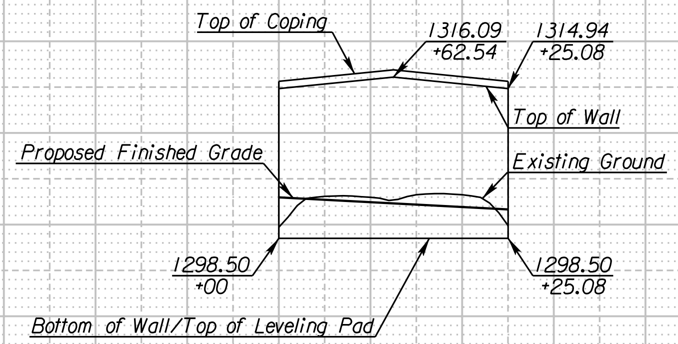
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	177	534

WALL N ALIGNMENT DATA			
POINT NO. ○	P.I. STA.	NORTHING	EASTING
1	300+00.00	1684172.3591	1701760.8646
2	301+25.08	1684047.2955	1701763.0887



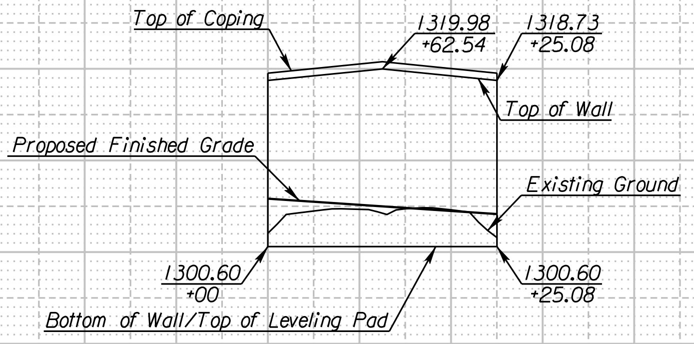
WALL P ALIGNMENT DATA			
POINT NO. ○	P.I. STA.	NORTHING	EASTING
3	400+00.00	1684185.2858	1702487.7496
4	401+25.08	1684060.2223	1702489.9737

Note:
All Station and Offsets are to Back Face of Wall



WALL N PROFILE

Top of Wall	1314.84	1315.34	1315.84	1315.84	1315.34	1314.84
Fin. Grade	1302.97	1302.71	1302.44	1302.18	1301.92	1301.66
Ex. Ground	1299.71	1303.08	1302.98	1303.26	1303.26	1299.90
	300				1	



WALL P PROFILE

Top of Wall	1318.73	1319.23	1319.73	1319.73	1319.23	1318.73
Fin. Grade	1305.83	1305.49	1305.16	1304.82	1304.49	1304.15
Ex. Ground	1302.05	1304.48	1304.67	1304.72	1304.61	1301.59
	400				1	

CITY OF WICHITA
MSE RETAINING WALLS N & P
PLAN & PROFILE

SURV. - PLOT - CADD DES. - DR. - TR. - CKD. - APP. -

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2/9/2011
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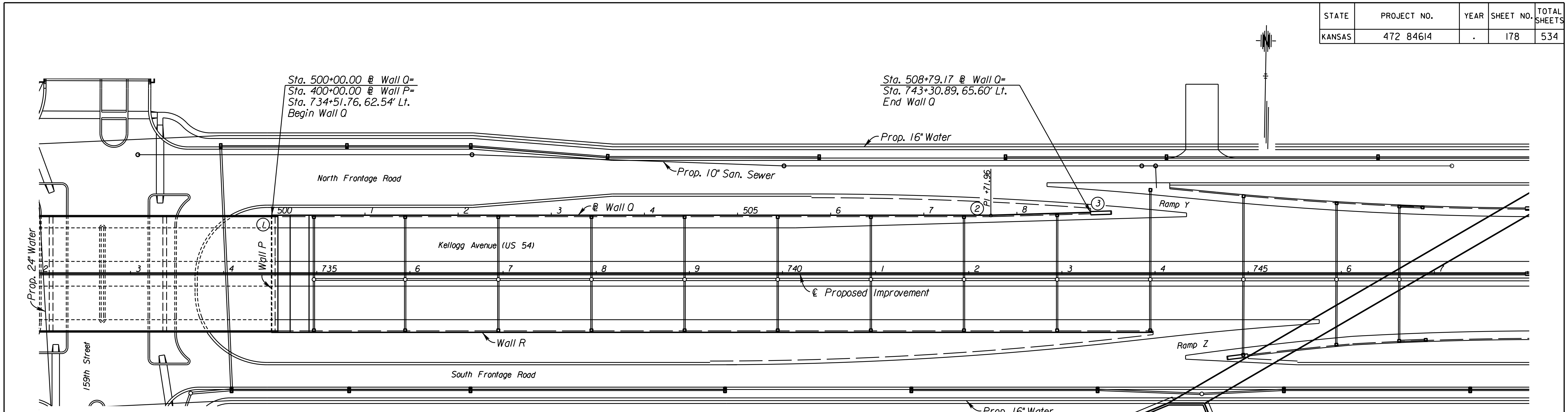
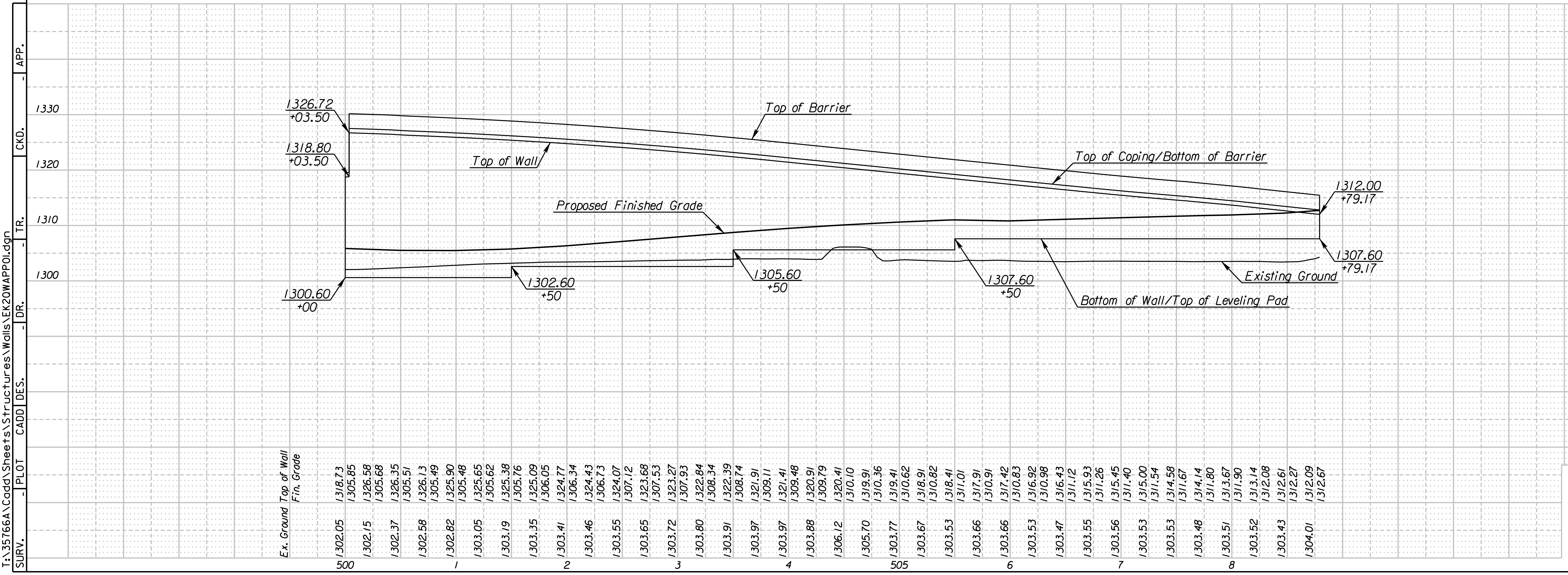
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	178	534



WALL ALIGNMENT DATA				
POINT NO. ○	P.I. STA.	NORTHING	EASTING	DELTA (DMS)
1	500+00.00	1684185.2858	1702487.7496	
2	507+71.96	1684199.0115	1703259.5891	01°38'11.68" Lt.
3	508+79.17	1684203.9785	1703366.6845	

Note:
All Station and Offsets are to Back Face of Wall



SURV. - PLOT CADD DES. - DR. - TR. CKD. - APP. -

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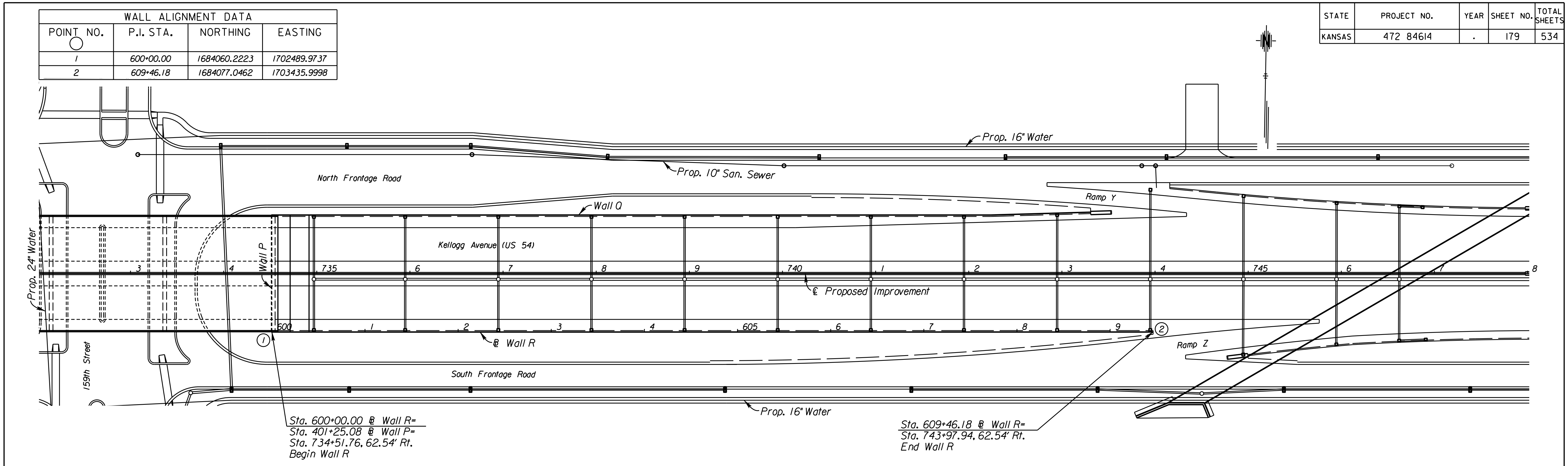
CITY OF WICHITA
MSE RETAINING WALL Q
PLAN & PROFILE
STA. 500+00 TO STA. 508+79.17

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	179	534

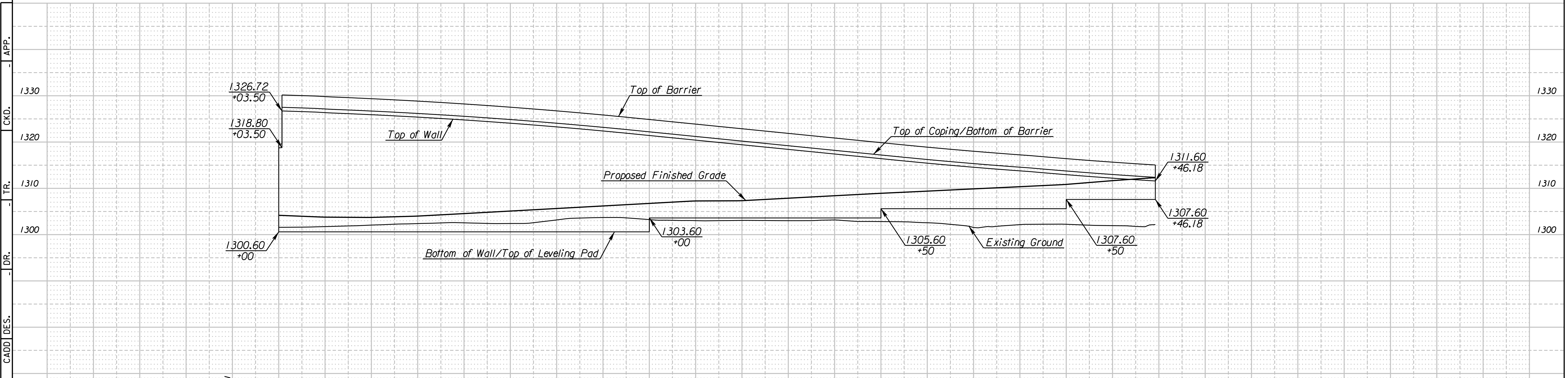
WALL ALIGNMENT DATA			
POINT NO. ○	P.I. STA.	NORTHING	EASTING
1	600+00.00	1684060.2223	1702489.9737
2	609+46.18	1684077.0462	1703435.9998



Sta. 600+00.00 ℄ Wall R=
Sta. 401+25.08 ℄ Wall P=
Sta. 734+51.76, 62.54' Rt.
Begin Wall R

Sta. 609+46.18 ℄ Wall R=
Sta. 743+97.94, 62.54' Rt.
End Wall R

Note:
All Station and Offsets are to Back Face of Wall



	Top of Wall	Fin. Grade	Ex. Ground
600	1318.73	1304.17	1301.58
	1326.58	1303.97	1301.62
	1326.35	1303.78	1301.73
	1326.13	1303.74	1301.88
1	1325.90	1303.72	1302.06
	1325.65	1303.86	1302.26
	1325.38	1304.01	1302.39
	1325.09	1304.27	1302.53
2	1324.77	1304.54	1302.55
	1324.43	1304.82	1302.42
	1324.07	1305.09	1302.40
	1323.68	1305.37	1302.58
3	1323.27	1305.64	1303.17
	1322.84	1305.92	1303.58
	1322.39	1306.19	1303.69
	1321.91	1306.47	1303.62
4	1321.41	1306.74	1303.24
	1320.91	1307.02	1303.09
	1320.41	1307.28	1303.02
	1319.91	1307.29	1303.02
605	1319.41	1307.33	1303.07
	1318.91	1307.60	1303.04
	1318.41	1307.87	1303.01
	1317.91	1308.14	1303.02
6	1317.41	1308.40	1303.18
	1316.91	1308.67	1302.85
	1316.41	1308.93	1302.82
	1315.91	1309.16	1302.77
7	1315.43	1309.40	1302.57
	1314.98	1309.64	1302.22
	1314.55	1309.88	1301.53
	1314.15	1310.12	1301.79
8	1313.77	1310.36	1302.16
	1313.37	1310.60	1302.25
	1312.96	1310.85	1302.24
	1312.57	1311.26	1302.04
9	1312.20	1311.66	1301.94
	1311.86	1312.02	1301.77

CITY OF WICHITA

MSE RETAINING WALL R

PLAN & PROFILE

STA. 600+00 TO STA. 609+46.18

SURV. - | PLOT - | CADD | DES. - | DR. - | TR. - | CKD. - | APP. -

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2/9/2011
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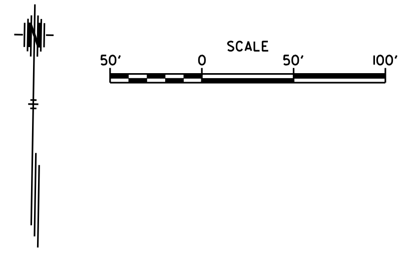
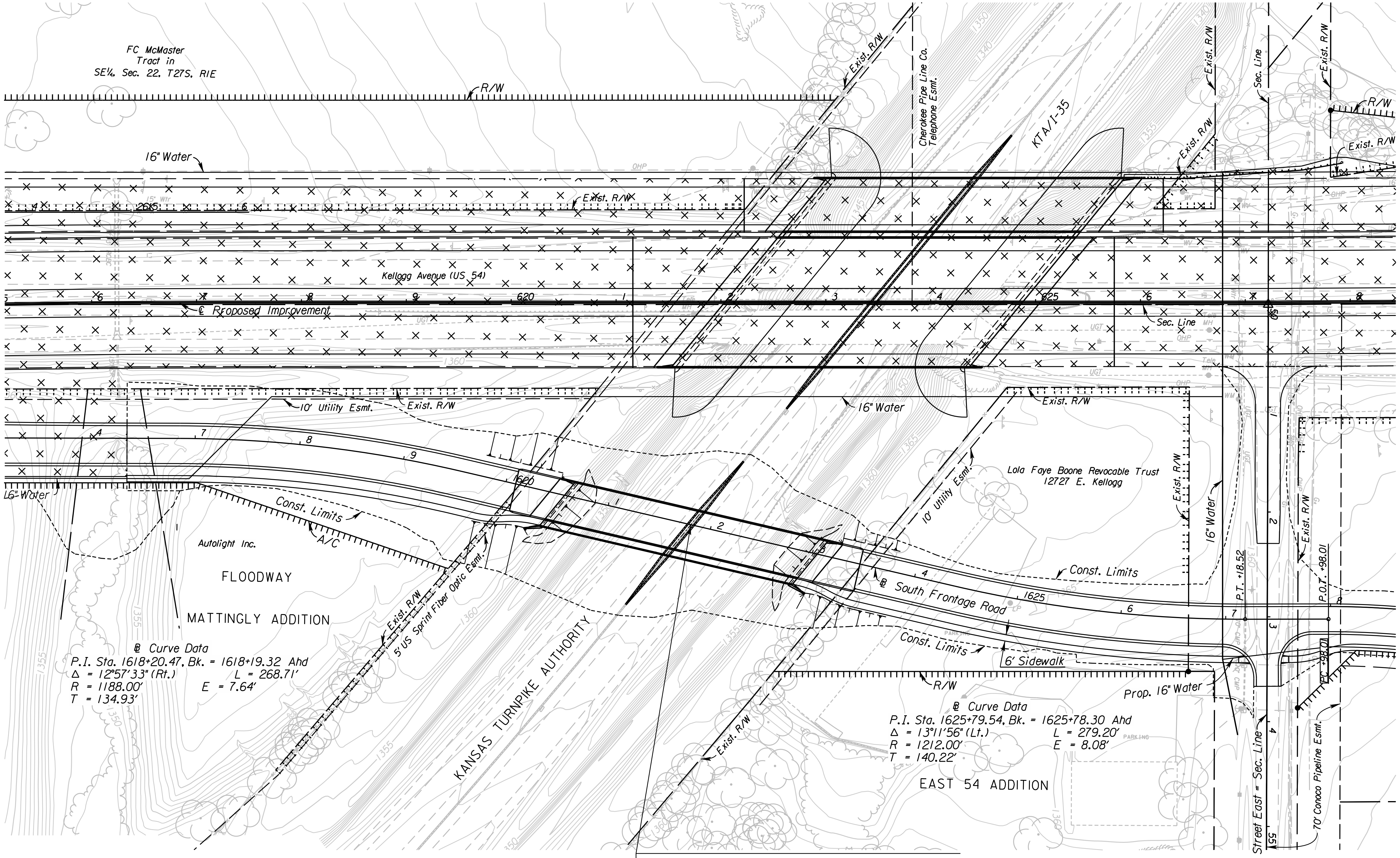
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	180	534





Sta. 1621+80.88 Construct
Br. No. ( )
122'-122' Continuous Prestressed Concrete
Beam Spans; Pile Bent Abutments and Column Bent Piers,
1-40' Roadway, 1-6' Sidewalk, 26°17'31" Skew Rt.

PLAN

LEGEND

☒ Previous Construction (Project 472 84615)

UTILITIES

Gas_1	Kansas Gas Service
Gas_4	Conoco Phillips Pipeline Company
Power	Westar
Storm Water Sewer	Wchita Water & Sewer
Telephone	AT&T
$Telephone_2$	US Sprint
Water	Wichita Water & Sewer

See Sh. No's. 102-130 for SWS Plans.
See Sh. No's. 136-139 for San. Sewer Plans.
See Sh. No's. 140-162 for Water Plans.

CITY OF WICHITA

SOUTH FRONTAGE ROAD OVER KTA/I-35

CONTOUR MAP

BR. NO.

STA. 1621+80.88

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2/9/2011
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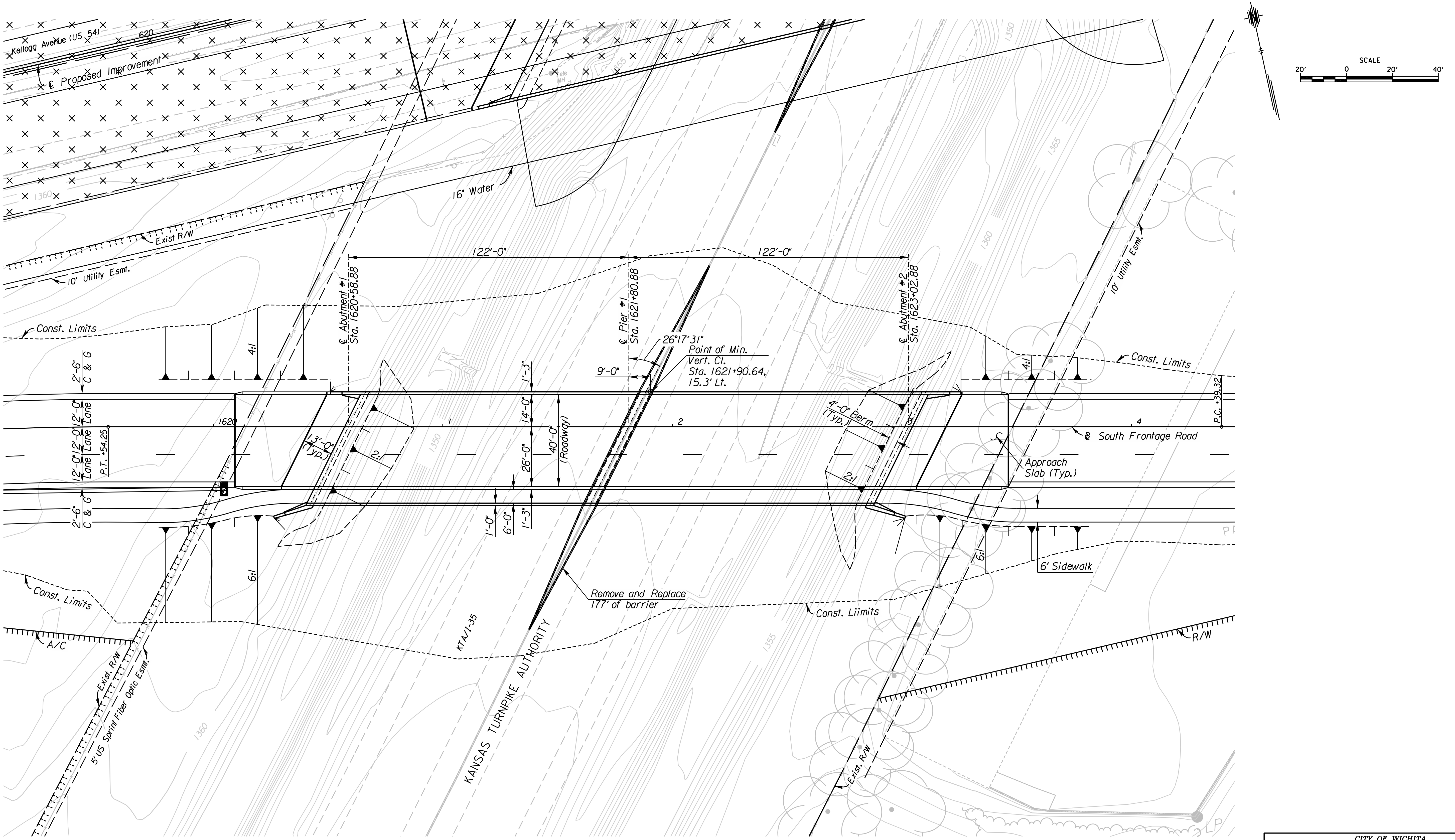
SURV.	-	PLOT	CADD	DES.	-	DR.	-	TR.	CKD.	-	APP.	-

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	181	534



PLAN

CITY OF WICHITA

SOUTH FRONTAGE ROAD OVER KTA/I-35

CONSTRUCTION LAYOUT I

BR. NO.   STA. 1621+80.88

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2/9/2011
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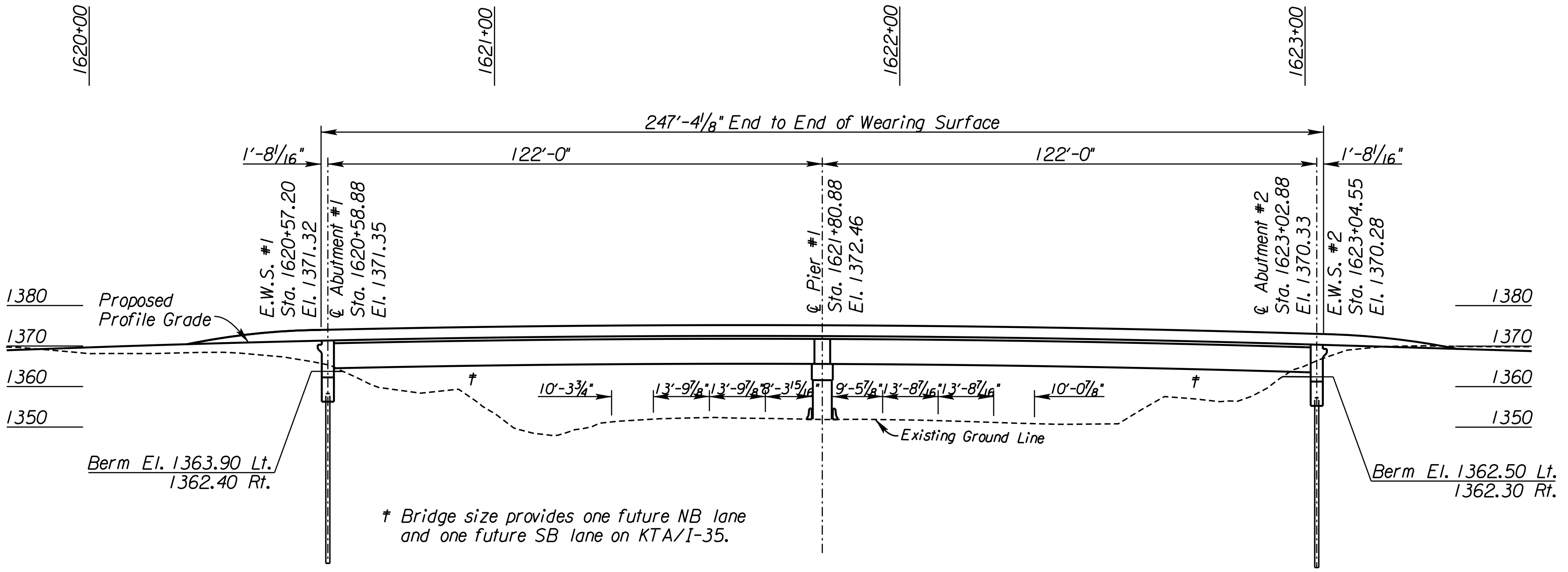
SURV. - PLOT - CADD DES. - DR. - TR. - CKD. - APP. -

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	182	534

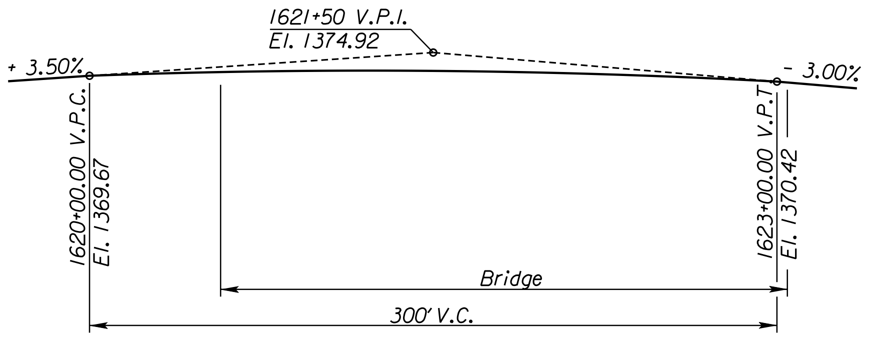
SCALE
20' 0 20' 40'



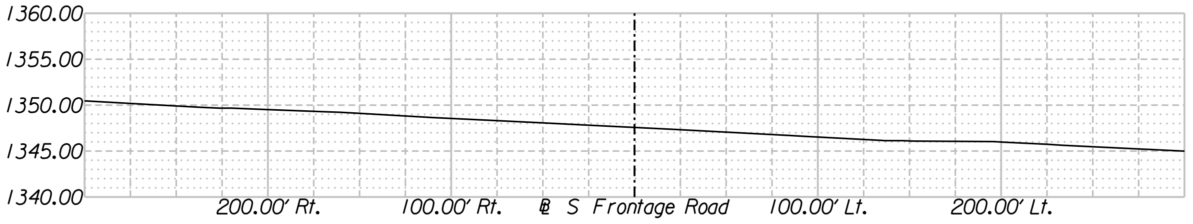
† Bridge size provides one future NB lane and one future SB lane on KTA/I-35.

ELEVATION

122'-122'
Continuous Prestressed Concrete Beam Spans;
Pile Bent Abutments & Column Bent Pier,
1-40' Roadway, 1-6' Sidewalk, 26°17'31" Skew Rt.

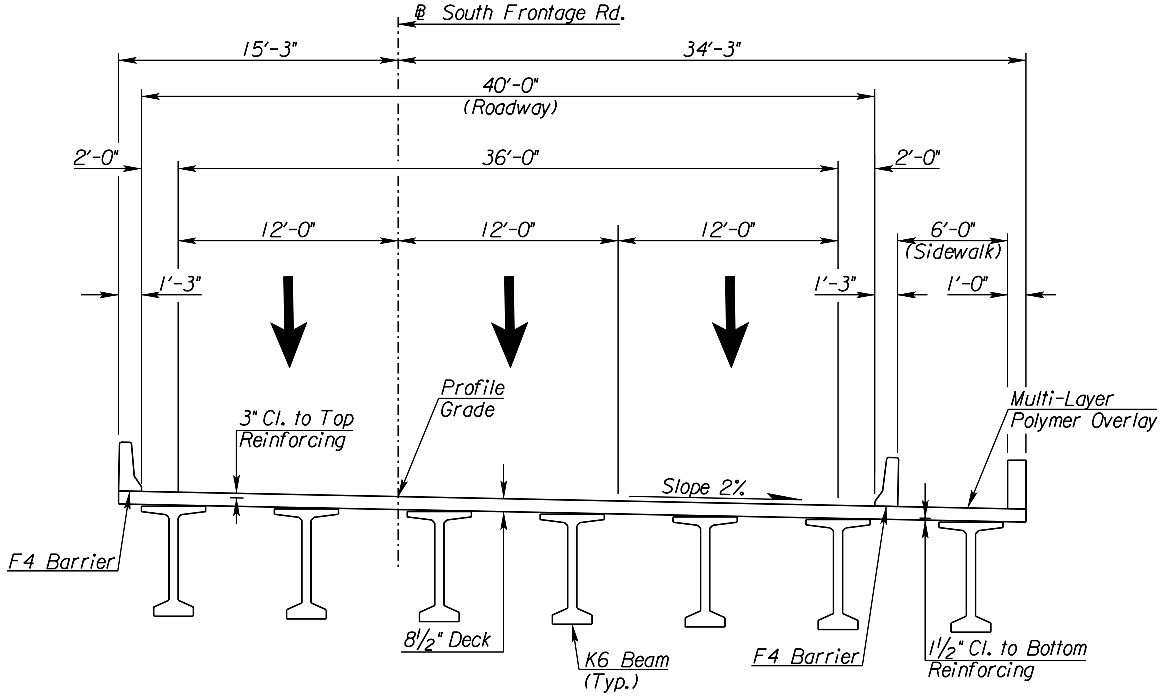


SOUTH FRONTAGE ROAD VERTICAL PROFILE



EXISTING PROFILE OF ℄ KTA/I-35

(Along ℄ KTA/I-35)



SOUTH FRONTAGE ROAD OVER KTA/I-35

Proposed Section

DESIGN LOADING:

HL-93

UNIT STRESSES:

Concrete f'c = 4,000 psi
Reinforcing Steel fy = 60,000 psi

CITY OF WICHITA
SOUTH FRONTAGE ROAD OVER KTA/I-35
CONSTRUCTION LAYOUT II
BR. NO. STA. 1621+80.88

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2/9/2011
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SURV. - PLOT CADD DES. - DR. - TR. - CKD. - APP. -

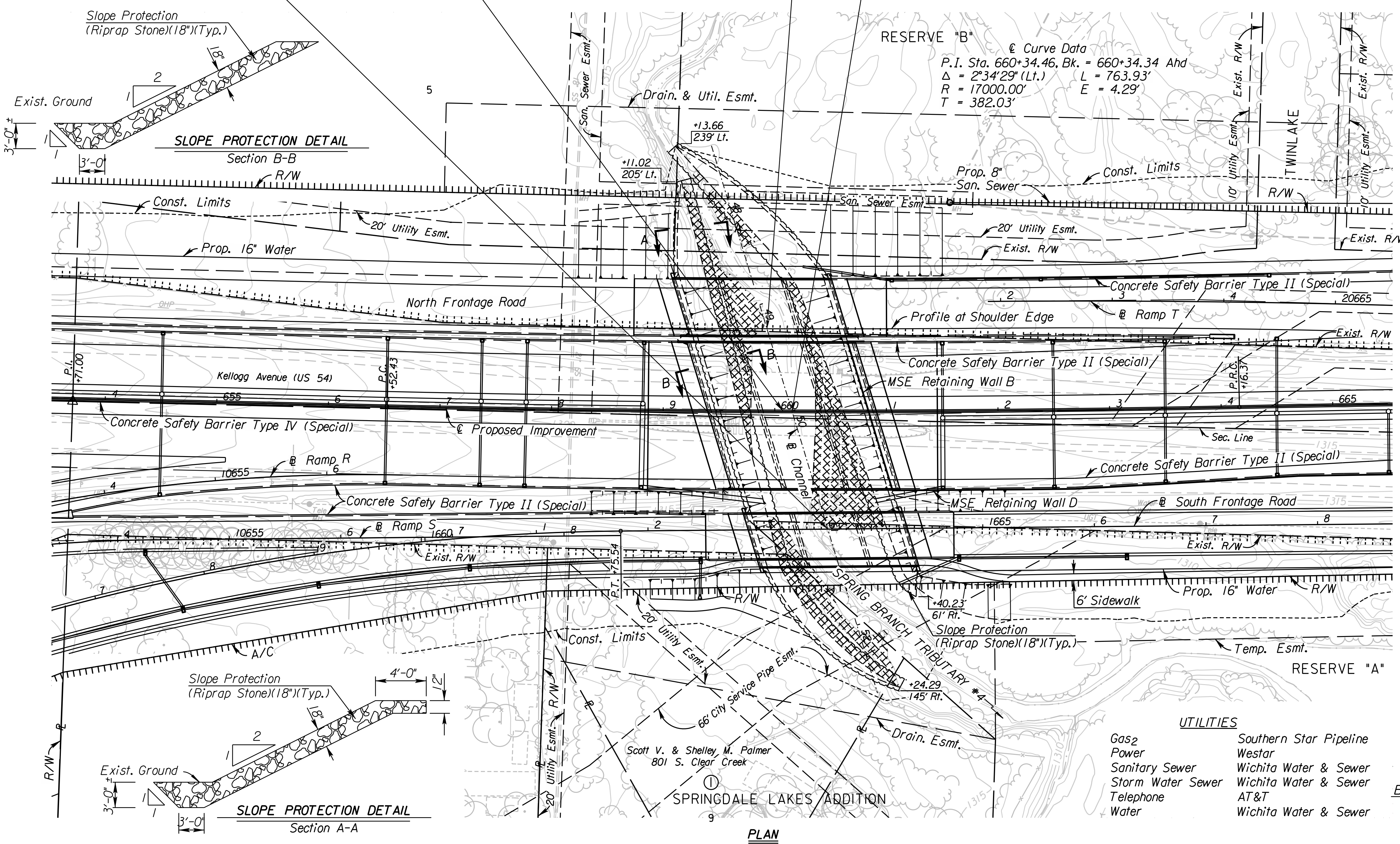
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	183	534

Sta. 1663+61.08 Construct
Br. No. ()
42'-56'-42'
Reinforced Concrete Haunched Slab Spans;
Pile Bent Abutments and Column Bent Piers,
1-40' Roadway, 1-6' Sidewalk, 16°21'08" Skew Lt.

Sta. 660+07.05 Remove
Exist. Bridge
See notes this sheet

Sta. 659+92.76 74.00' Lt. Construct
Br. No. ()
42'-56'-42'
Reinforced Concrete Haunched Slab Spans;
Pile Bent Abutments and Column Bent Piers,
1-50' Roadway, 17°04'36" Skew Lt.

Sta. 660+15.49 Construct
Br. No. ()
46'-56'-46'
Continuous Prestressed Concrete Beam Spans;
Pile Bent Abutments and Column Bent Piers,
1-60' & 1-68' Roadways, 17° Skew Lt.



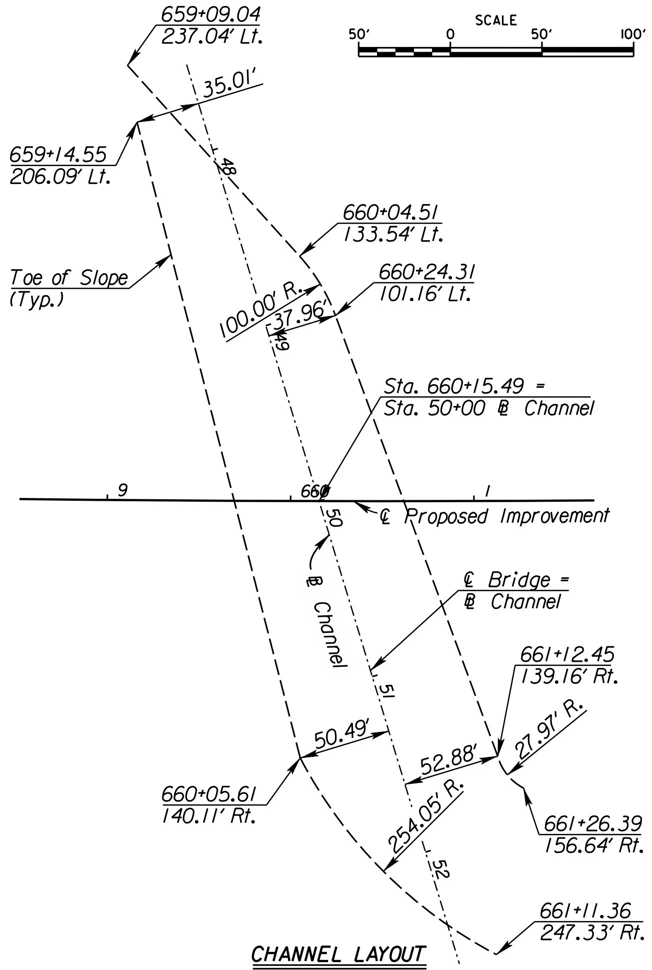
SLOPE PROTECTION DETAIL
Section B-B

SLOPE PROTECTION DETAIL
Section A-A

PLAN

UTILITIES

Gas	Southern Star Pipeline
Power	Westar
Sanitary Sewer	Wichita Water & Sewer
Storm Water Sewer	Wichita Water & Sewer
Telephone	AT&T
Water	Wichita Water & Sewer



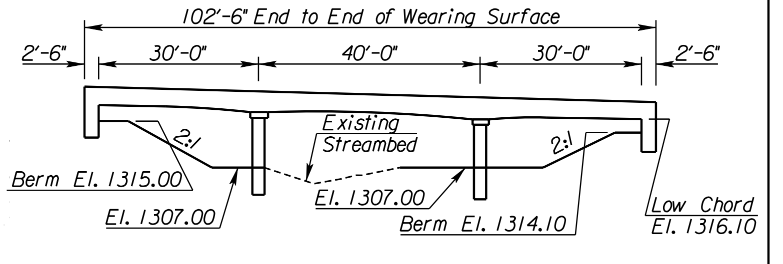
CHANNEL LAYOUT
(Stations/Offsets from ℄ Proposed Improvement)

REMOVAL OF EXISTING STRUCTURE

The Contractor shall remove the existing bridge (K.D.O.T. No. XXXXX) consisting of 1-42' Roadway & 1-52' Roadway; Haunched Slab Bridges.

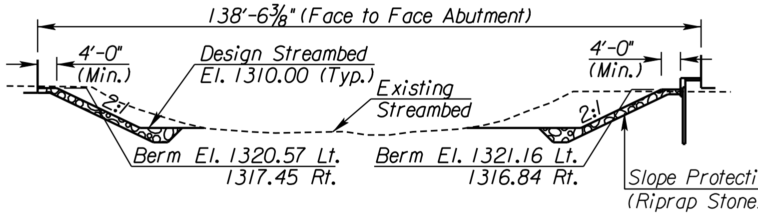
All material removed shall become the property of the Contractor and shall be removed from the project site by the Contractor. Remove all portions of the substructure (pilings, footings, etc.) at least 3' below the existing streambed.

All labor and work is included in the bid item "Removal of Existing Structures", Lump Sum.

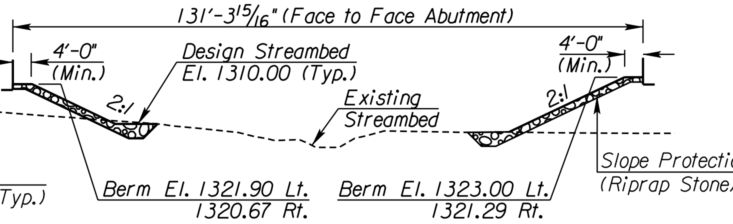


EXISTING EAST KELLOGG HAUNCH SLAB WATERWAY OPENING
(Looking Upstream) (Along Exist. Kellogg Ave.)
Waterway Opening = 690 Sq. Ft.

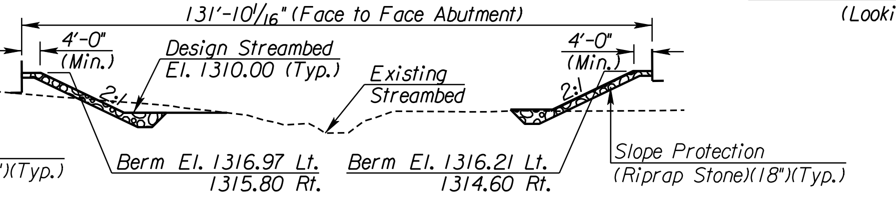
See Sh. No's. 102-130 for SWS Plans.
See Sh. No's. 136-139 for San. Sewer Plans.
See Sh. No's. 140-162 for Water Plans.



CHANNEL SECTION @ EAST KELLOGG BRIDGE
(Looking Upstream) (Normal to ℄ Channel)



CHANNEL SECTION @ NORTH FR. RD. BRIDGE
(Looking Upstream) (Normal to ℄ Channel)



CHANNEL SECTION @ SOUTH FR. RD. BRIDGE
(Looking Upstream) (Normal to ℄ Channel)

CITY OF WICHITA
EAST KELLOGG AND FRONTAGE ROADS OVER
SPRING BRANCH TRIBUTARY #4
CONTOUR MAP
BR. NO. STA. 659+92.76
BR. NO. STA. 660+15.49
BR. NO. STA. 1663+61.08

SURV.	PLOT	CADD	DES.	DR.	TR.	CKD.	APP.
-				-	-	-	-

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2/9/2011
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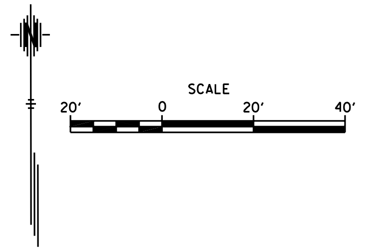
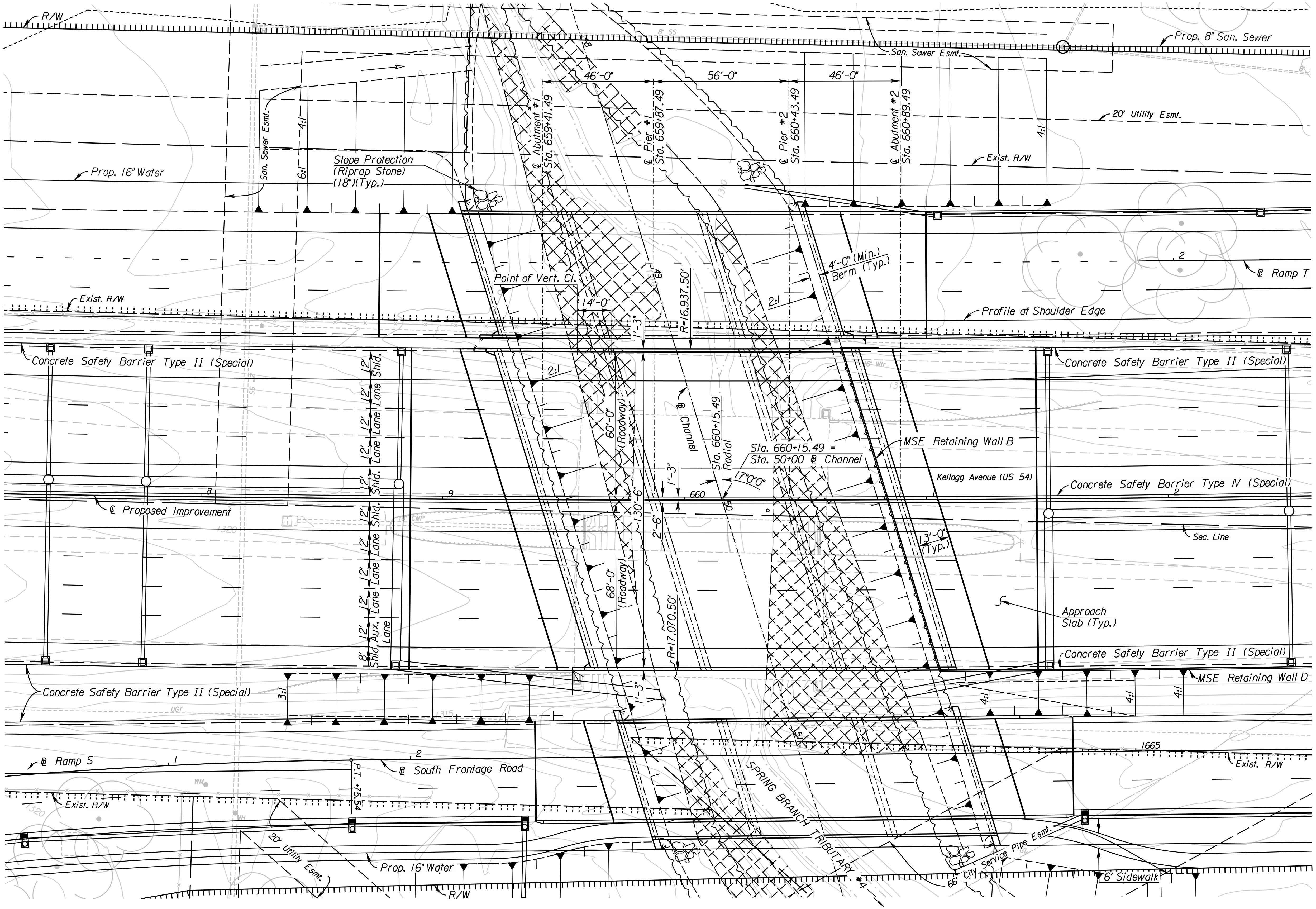
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	184	534





PLAN

DRAINAGE DATA

✱Drainage Area	3.3	Sq. Mi.
Design Frequency	100	Years
✱✱Design Discharge (Q_{100})	3,813	cfs
Design High Water Elevation	1316.26	Ft.
Design Backwater	N/A	Ft.
Design Backwater Elevation	1317.71	Ft.
Overtopping Elevation (Sta. N/A)	N/A	Ft.
Overtopping Discharge	N/A	cfs
Overtopping Frequency	>500	Years
✱✱Discharge at Q_{100}	3,813	cfs
Backwater at Q_{100}	N/A	Ft.
Backwater Elevation at Q_{100}	1317.71	Ft.
Historic High Water Elevation	N/A	Ft.
Ordinary High Water Elevation	1309.0	Ft.
Total Waterway Provided	803	Sq. Ft.
Design Waterway Provided	219	Sq. Ft.
100 Yr. Floodplain Elev. (FEMA)		
Average Velocity at Q_{des}	3.4	fps
Average Velocity at Q_{100}	3.4	fps

✱ Drainage Area for Spring Branch Tributary #4

✱✱ Discharge is controlled and published by FEMA

℄ PROPOSED IMPROVEMENT CURVE DATA

P.I. Sta. 660+34.46 Bk. = 660+34.34 Ahd.

Δ= 02° 34' 29" (Lt.)
R= 17000.00'
T= 382.03'
L= 763.93'
E= 4.29'

CITY OF WICHITA

EAST KELLOGG OVER
SPRING BRANCH TRIBUTARY #4
CONSTRUCTION LAYOUT I

BR. NO.
STA. 660+15.49

SURV.	PLOT	CADD	DES.	DR.	TR.	CKD.	APP.
-	-	-	-	-	-	-	-

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2/9/2011
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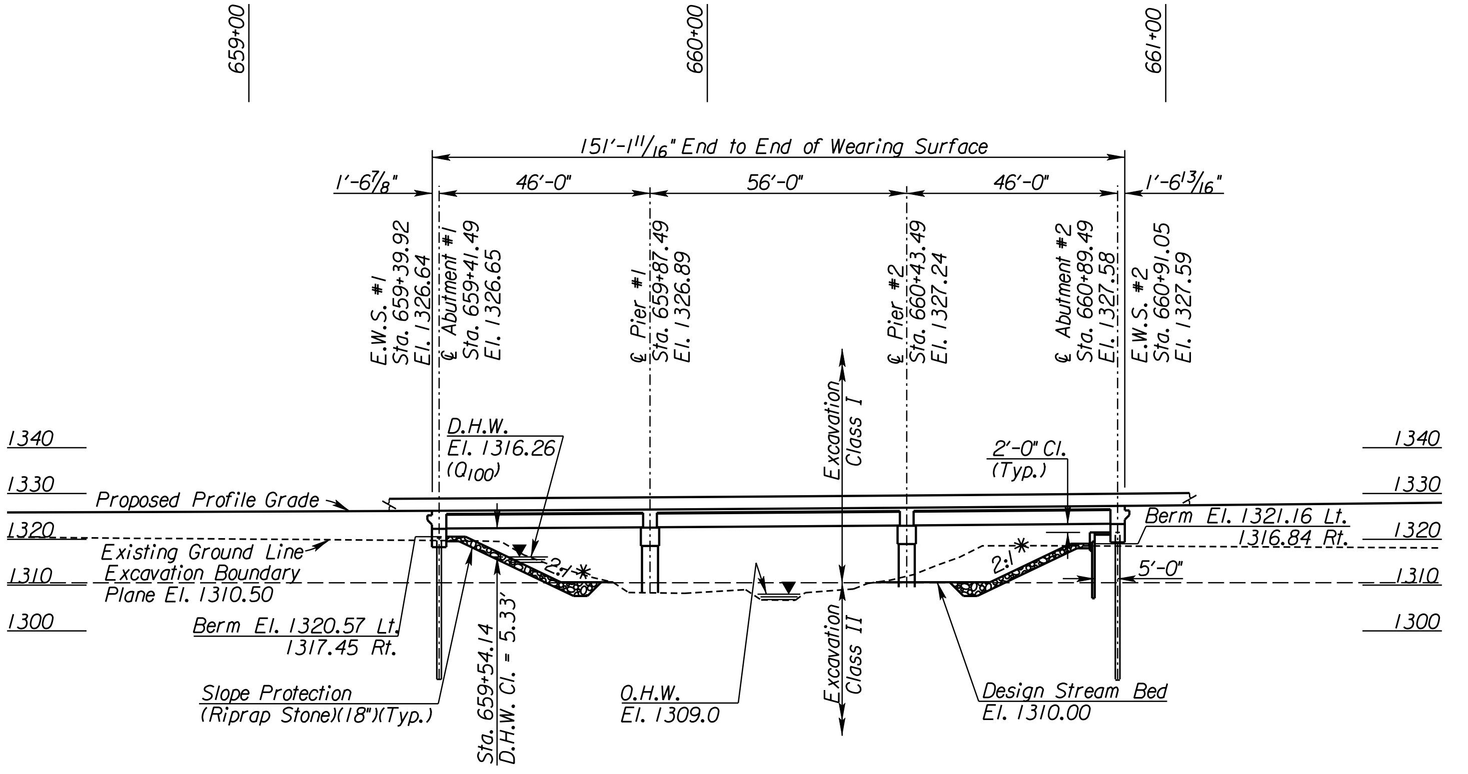
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	185	534



ELEVATION

46'-56'-46'
Continuous Prestressed Concrete Beam Spans;
Pile Bent Abutments & Column Bent Piers,
1-60' & 1-68' Roadways, 17° Skew Lt.

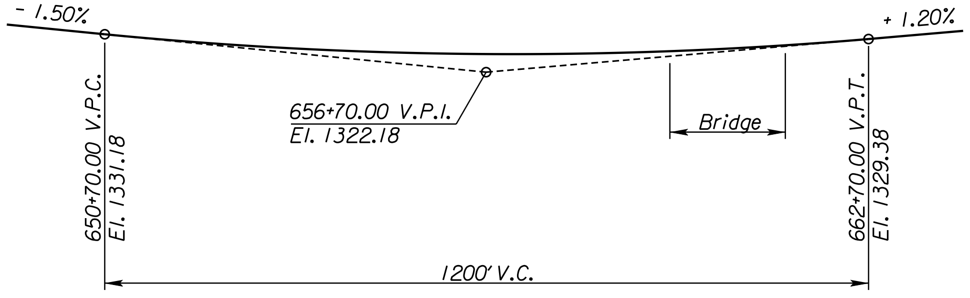
* Normal to ℄ Channel

DESIGN LOADING:

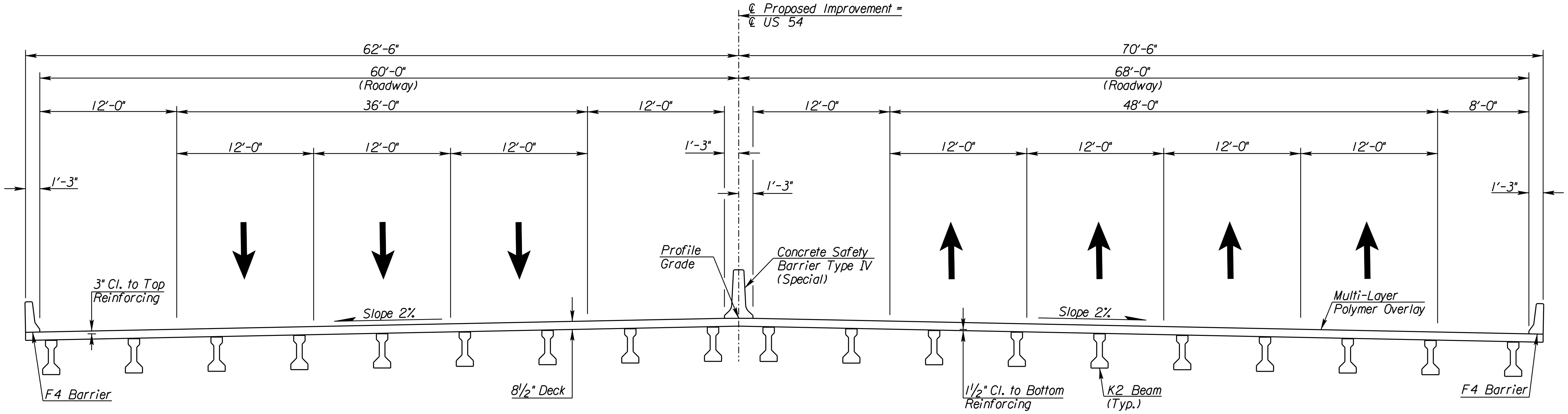
HL-93

UNIT STRESSES:

Concrete	f'c =	4,000 psi
Reinforcing Steel	fy =	60,000 psi



VERTICAL PROFILE



EAST KELLOGG OVER SPRING BRANCH TRIBUTARY #4

Proposed Section

CITY OF WICHITA
EAST KELLOGG OVER
SPRING BRANCH TRIBUTARY #4
CONSTRUCTION LAYOUT II
BR. NO. STA. 660+15.49

SURV.	-	PLOT	CADD	DES.	-	DR.	-	TR.	CKD.	-	APP.	-

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2/9/2011
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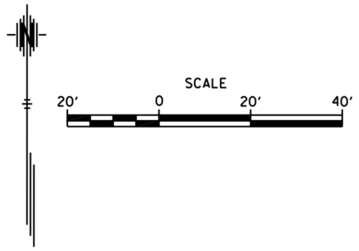
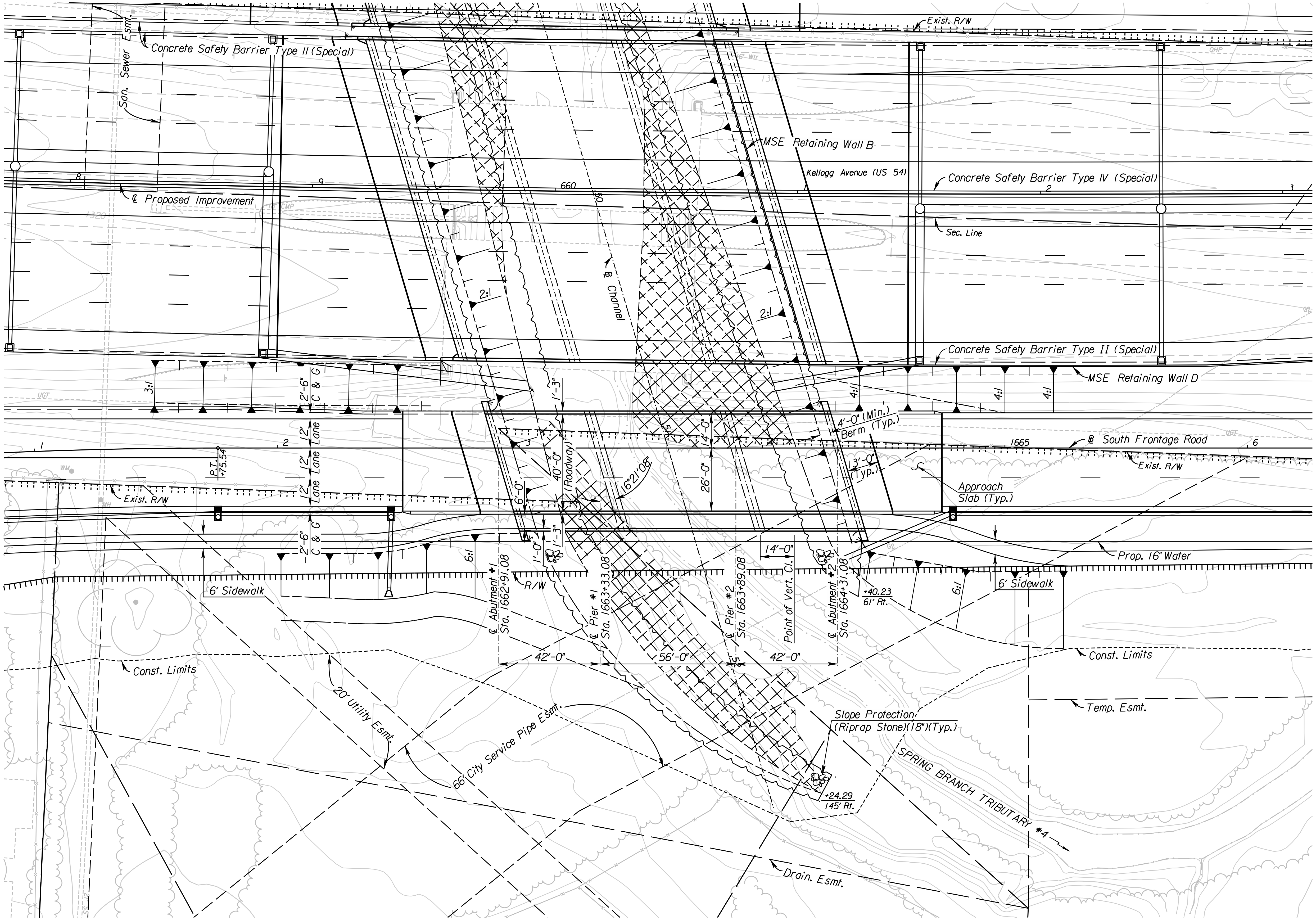
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	186	534





PLAN

DRAINAGE DATA

*Drainage Area	3.3	Sq. Mi.
Design Frequency	100	Years
**Design Discharge (Q_{100})	3,813	cfs
Design High Water Elevation	1314.39	Ft.
Design Backwater	N/A	Ft.
Design Backwater Elevation	N/A	Ft.
Overtopping Elevation (Sta. N/A)	N/A	Ft.
Overtopping Discharge	N/A	cfs
Overtopping Frequency	>500	Years
**Discharge at Q_{100}	3,813	cfs
Backwater at Q_{100}	N/A	Ft.
Backwater Elevation at Q_{100}	N/A	Ft.
Historic High Water Elevation	N/A	Ft.
Ordinary High Water Elevation	1309.0	Ft.
Total Waterway Provided	256	Sq. Ft.
Design Waterway Provided	219	Sq. Ft.
100 Yr. Floodplain Elev. (FEMA)		
Average Velocity at Q_{des}	3.4	fps
Average Velocity at Q_{100}	3.4	fps

* Drainage Area for Spring Branch Tributary #4
** Discharge is controlled and published by FEMA

CITY OF WICHITA
SOUTH FRONTAGE ROAD OVER
SPRING BRANCH TRIBUTARY #4
CONSTRUCTION LAYOUT I

BR. NO.
STA. 1663+61.08

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2/9/2011
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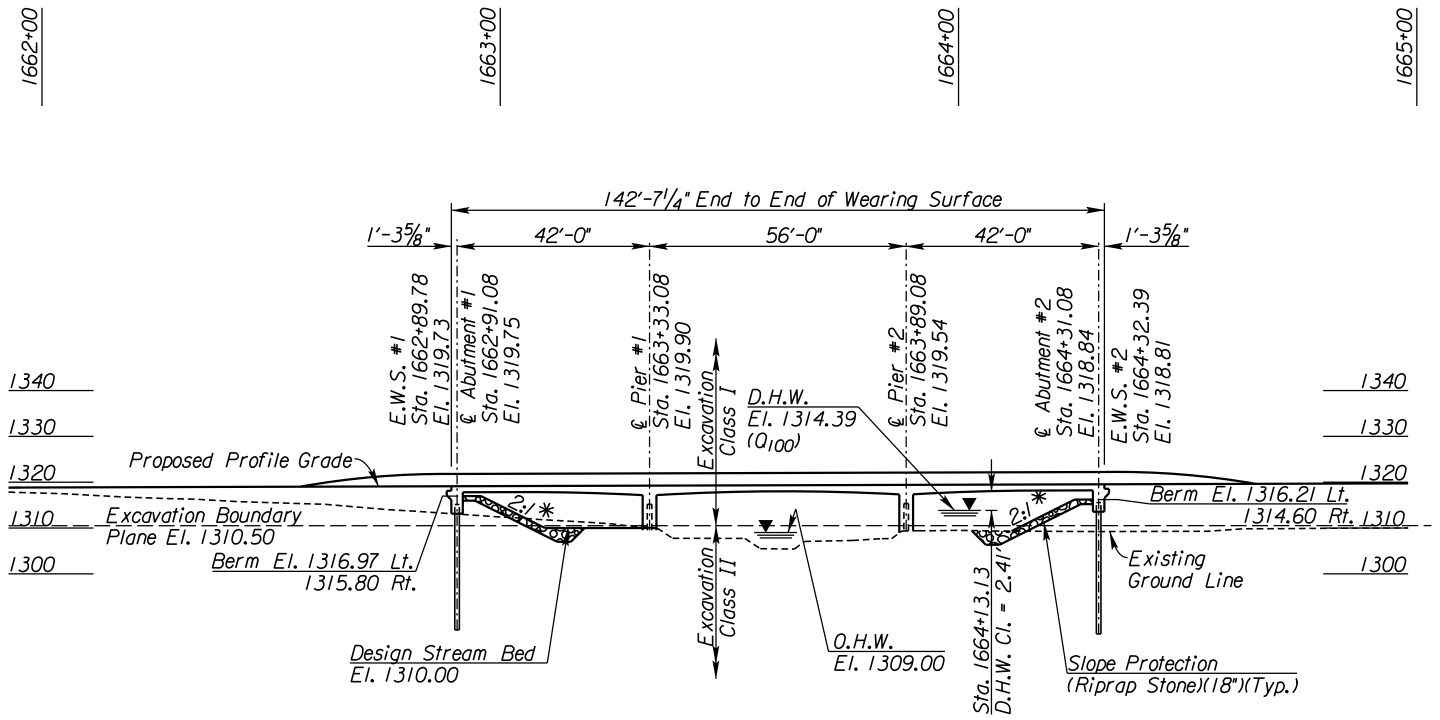
SURV.	-	PLOT	CADD	DES.	-	DR.	-	TR.	-	CKD.	-	APP.	-

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	187	534

SCALE
20' 0 20' 40'



ELEVATION

42'-56'-42'
Reinforced Concrete Haunched Slab Spans;
Pile Bent Abutments and Column Bent Piers,
1-40' Roadway, 1-6' Sidewalk, 16°21'08" Skew Lt.

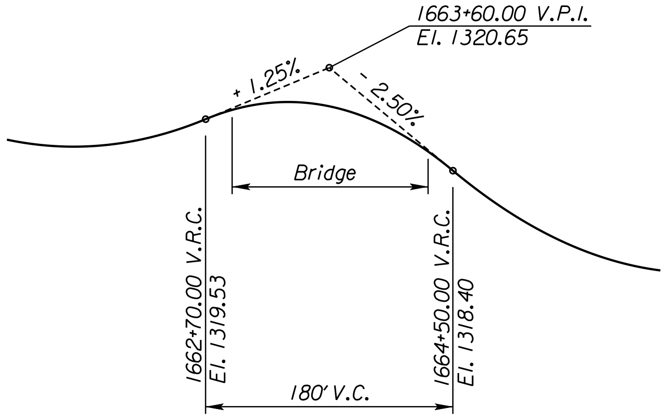
* Normal to ℄ Channel

DESIGN LOADING:

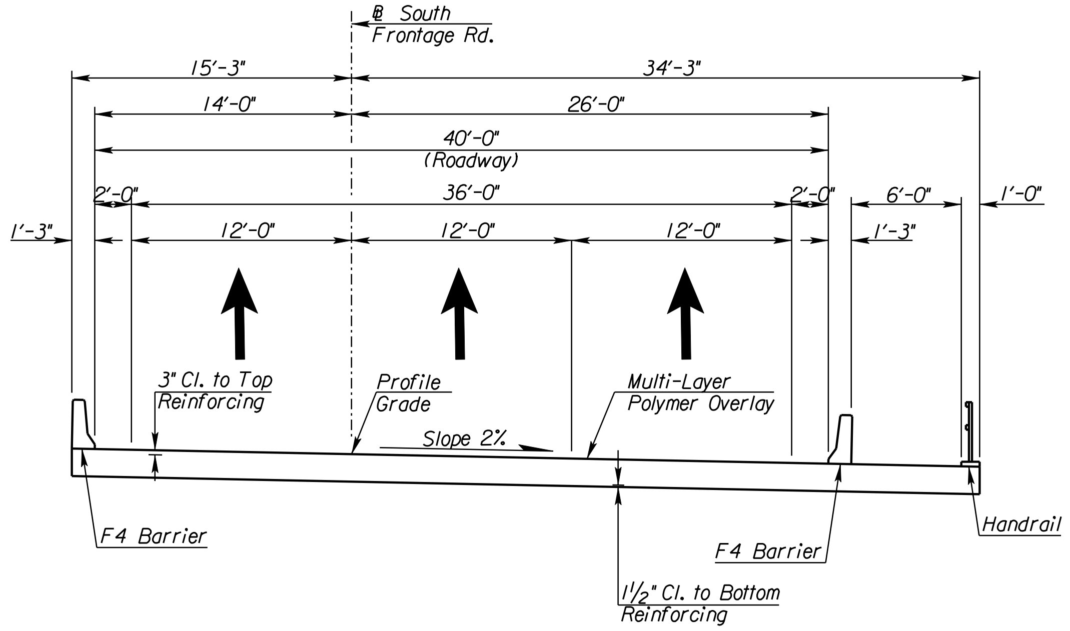
HL-93

UNIT STRESSES:

Concrete	f'c	= 4,000 psi
Reinforcing Steel	fy	= 60,000 psi



VERTICAL PROFILE



SOUTH FRONTAGE ROAD OVER SPRING BRANCH TRIBUTARY #4

Proposed Section

CITY OF WICHITA
SOUTH FRONTAGE ROAD OVER
SPRING BRANCH TRIBUTARY #4
CONSTRUCTION LAYOUT II

BR. NO.
STA. 1663+61.08

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2/9/2011
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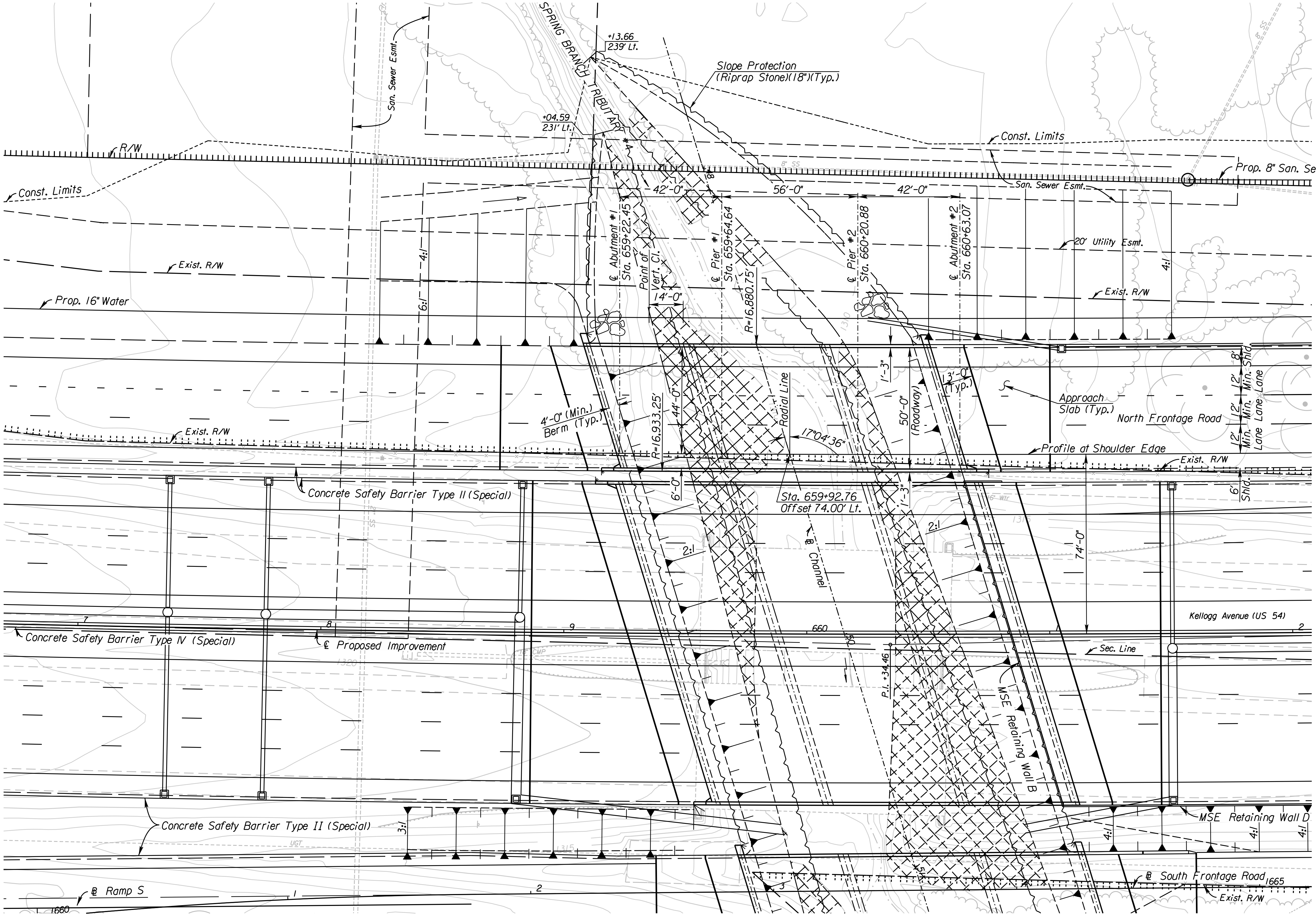
SURV. - PLOT - CADD DES. - DR. - TR. - CKD. - APP. -

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	188	534



PLAN

SCALE
20' 0 20' 40'

DRAINAGE DATA

✱Drainage Area	3.3	Sq. Mi.
Design Frequency	100	Years
✱✱Design Discharge (Q_{100})	3,813	cfs
Design High Water Elevation	1317.09	Ft.
Design Backwater	N/A	Ft.
Design Backwater Elevation	1317.71	Ft.
Overtopping Elevation (Sta. N/A)	N/A	Ft.
Overtopping Discharge	N/A	cfs
Overtopping Frequency	>500	Years
✱✱Discharge at Q_{100}	3,813	cfs
Backwater at Q_{100}	N/A	Ft.
Backwater Elevation at Q_{100}	1317.71	Ft.
Historic High Water Elevation	N/A	Ft.
Ordinary High Water Elevation	1309.0	Ft.
Total Waterway Provided	823	Sq. Ft.
Design Waterway Provided	219	Sq. Ft.
100 Yr. Floodplain Elev. (FEMA)		
Average Velocity at Q_{des}	3.4	fps
Average Velocity at Q_{100}	3.4	fps

✱ Drainage Area for Spring Branch Tributary #4
✱✱ Discharge is controlled and published by FEMA

℄ PROPOSED IMPROVEMENT CURVE DATA

P.I. Sta. 660+34.46 Bk. = 660+34.34 Ahd.
Δ= 02° 34' 29" (Lt.)
L= 763.93'
R= 17000.00'
E= 4.29'
T= 382.03'

CITY OF WICHITA
NORTH FRONTAGE ROAD OVER
SPRING BRANCH TRIBUTARY #4
CONSTRUCTION LAYOUT I

BR. NO.
STA. 659+92.76

SURV.	PLOT	CADD	DES.	DR.	TR.	CKD.	APP.
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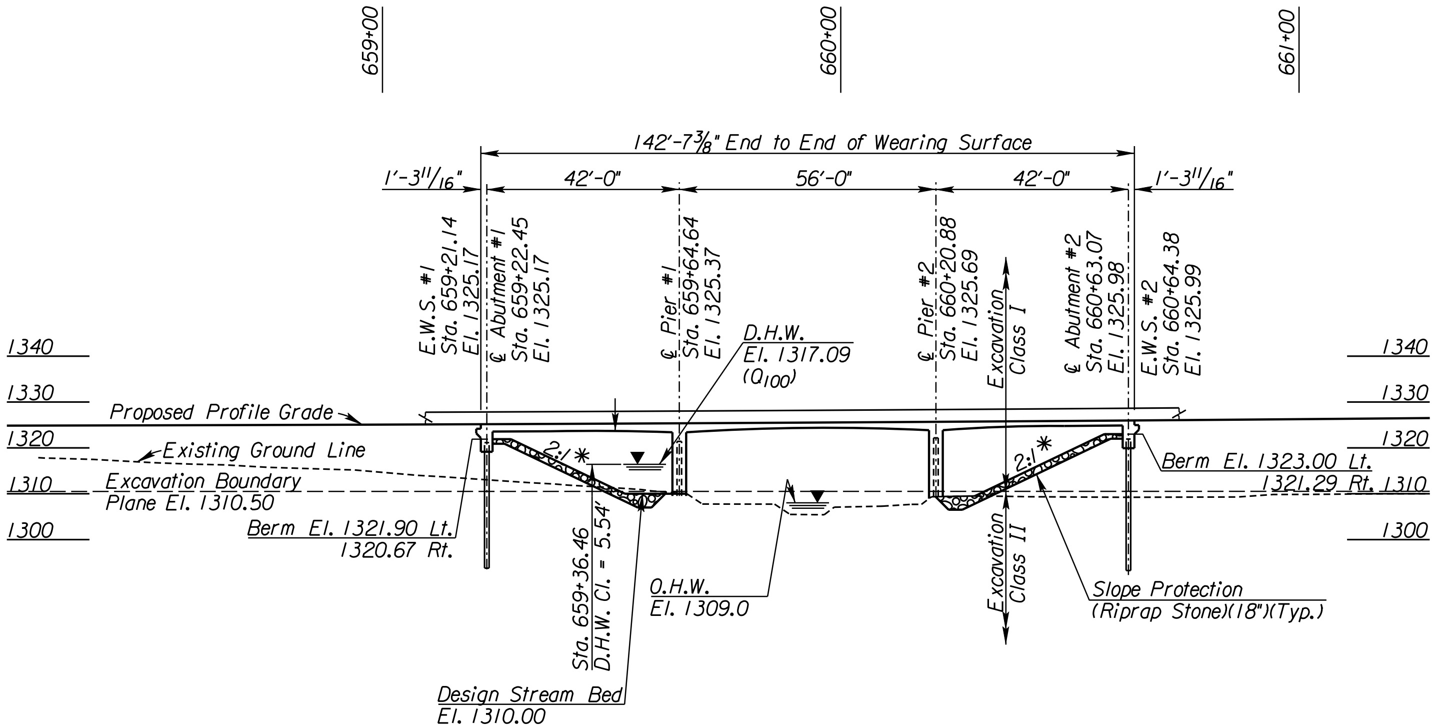
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	189	534



ELEVATION

42'-56'-42'
Reinforced Concrete Haunched Slab Spans;
Pile Bent Abutments & Column Bent Piers,
1-50' Roadway, 17°04'36" Skew Lt.

* Normal to ℄ Channel

DESIGN LOADING:

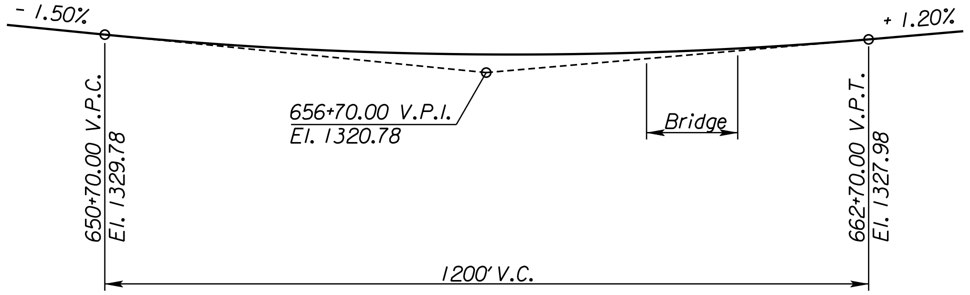
HL-93

UNIT STRESSES:

Concrete	f'c	= 4,000 psi
Reinforcing Steel	fy	= 60,000 psi

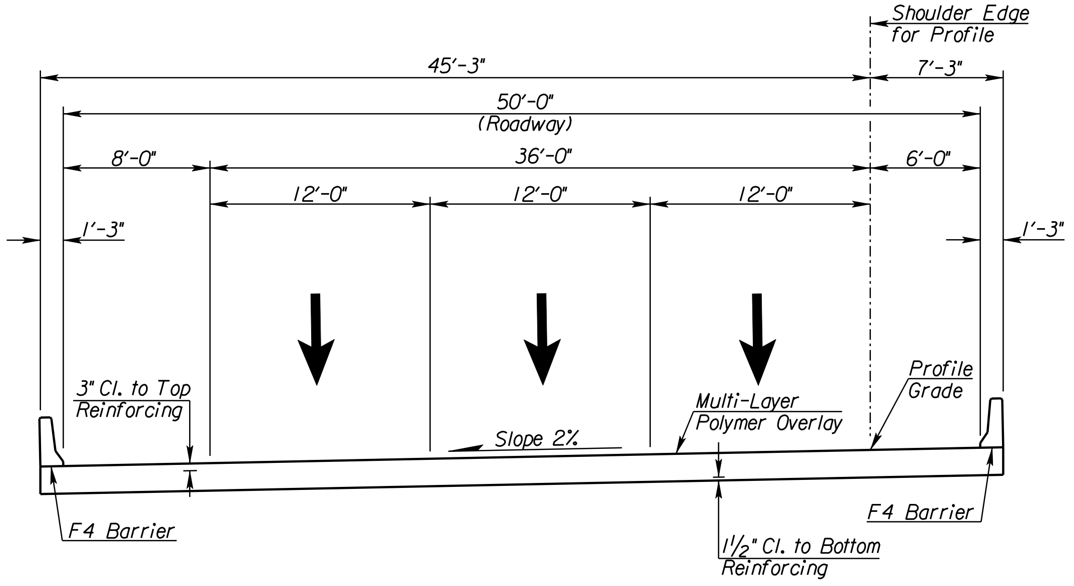
SCALE
20' 0 20' 40'

NOTE: Span lengths & elevations along Shoulder Edge for Profile and stationing along ℄ Proposed Improvement.



VERTICAL PROFILE

(Based on ℄ Proposed Improvement profile, adjusted for cross-slopes to N. Frontage Road Shoulder Edge for Profile.)



NORTH FRONTAGE ROAD OVER SPRING BRANCH TRIBUTARY #4

Proposed Section

CITY OF WICHITA
NORTH FRONTAGE ROAD OVER
SPRING BRANCH TRIBUTARY #4
CONSTRUCTION LAYOUT II
BR. NO.
STA. 659+92.76

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2/9/2011
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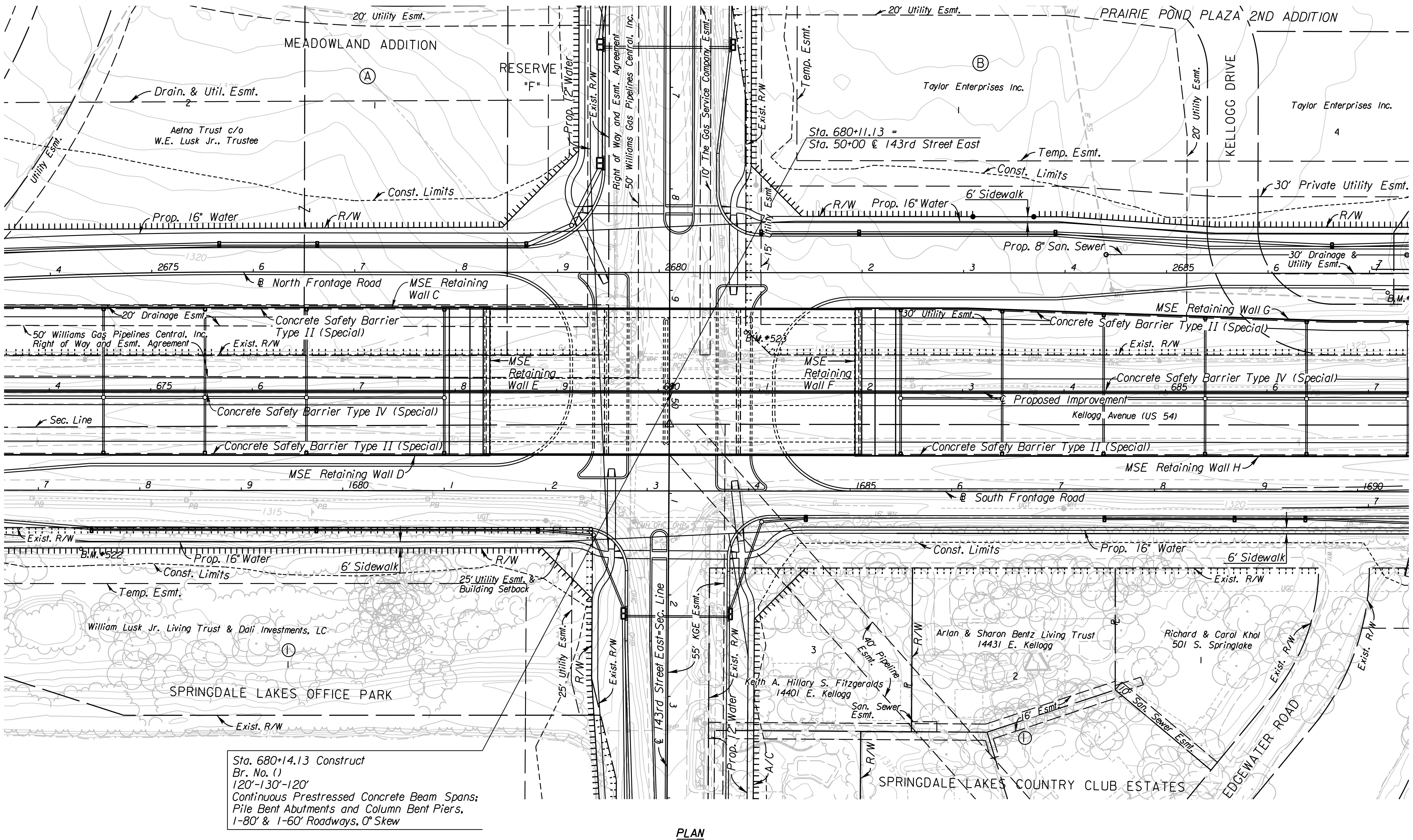
SURV. - PLOT CADD DES. - DR. - TR. - CKD. - APP. -

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	190	534



Sta. 680+14.13 Construct
Br. No. ()
120'-130'-120'
Continuous Prestressed Concrete Beam Spans;
Pile Bent Abutments and Column Bent Piers.
1-80' & 1-60' Roadways, 0° Skew

PLAN

UTILITIES

Cable	Cox Communications
Gas_1	Kansas Gas Service
Gas_2	Southern Star Pipeline
Gas_5	Coffeyville Resources
Power	Westar
Sanitary Sewer	Wichita Water & Sewer
Storm Water Sewer	Wichita Water & Sewer
Telephone	AT&T
Traffic Signal	City of Wichita
Water	Wichita Water & Sewer

See Sh. No's. 102-130 for SWS Plans.
See Sh. No's. 136-139 for San. Sewer Plans.
See Sh. No's. 140-162 for Water Plans.

CITY OF WICHITA
EAST KELLOGG OVER 143RD STREET EAST
CONTOUR MAP
BR. NO.
STA. 680+14.13

SURV.	-	PLOT	CADD	DES.	-	DR.	-	TR.	-	CKD.	-	APP.	-

10:49:51 AM
2/9/2011
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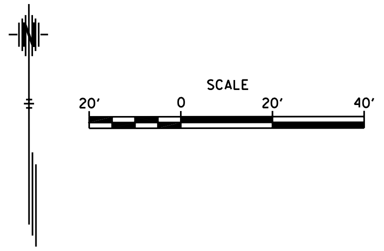
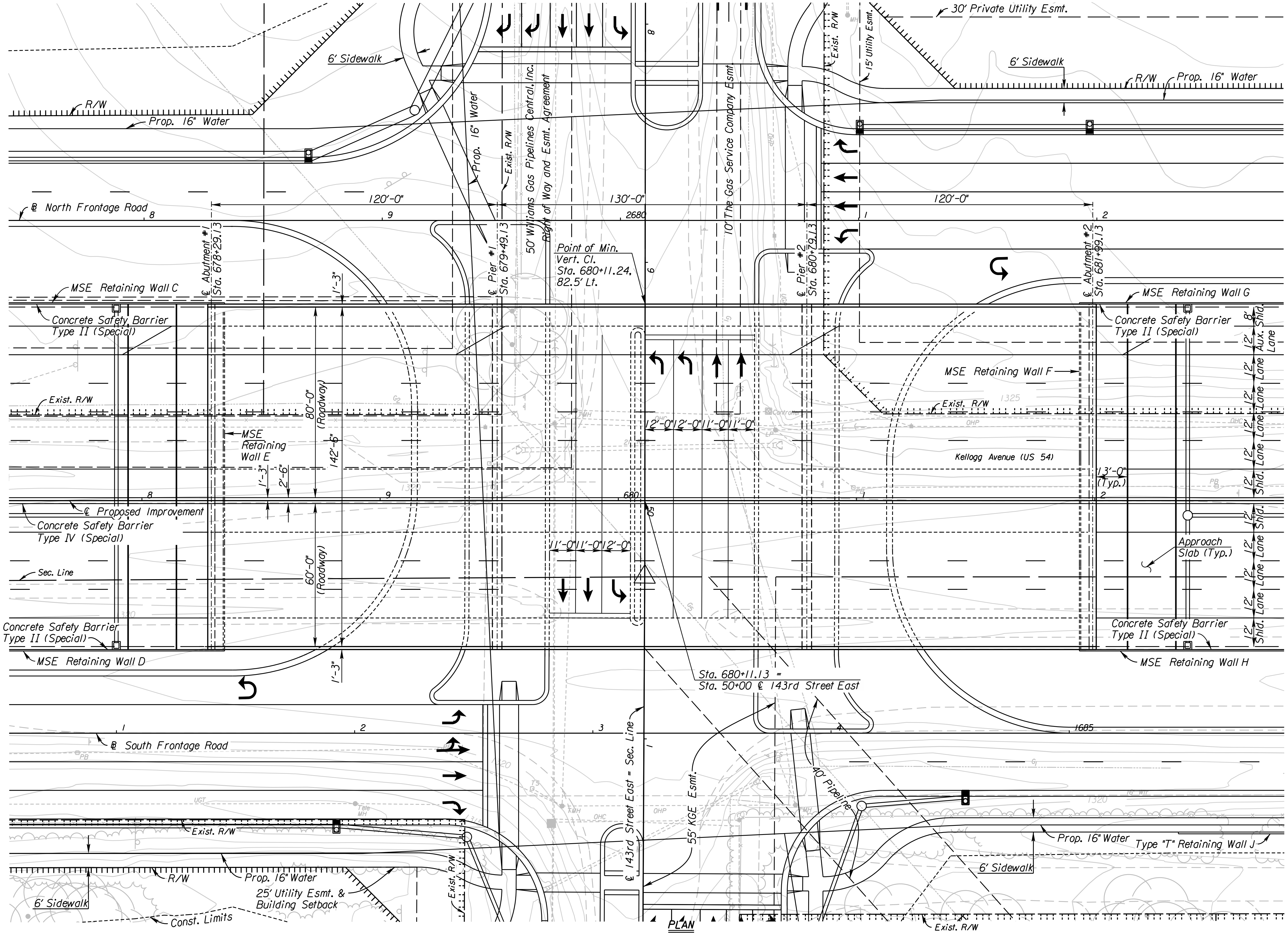
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	191	534





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2/9/2011
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SURV.	PLOT	CADD	DES.	DR.	TR.	CKD.	APP.
-				-	-	-	-

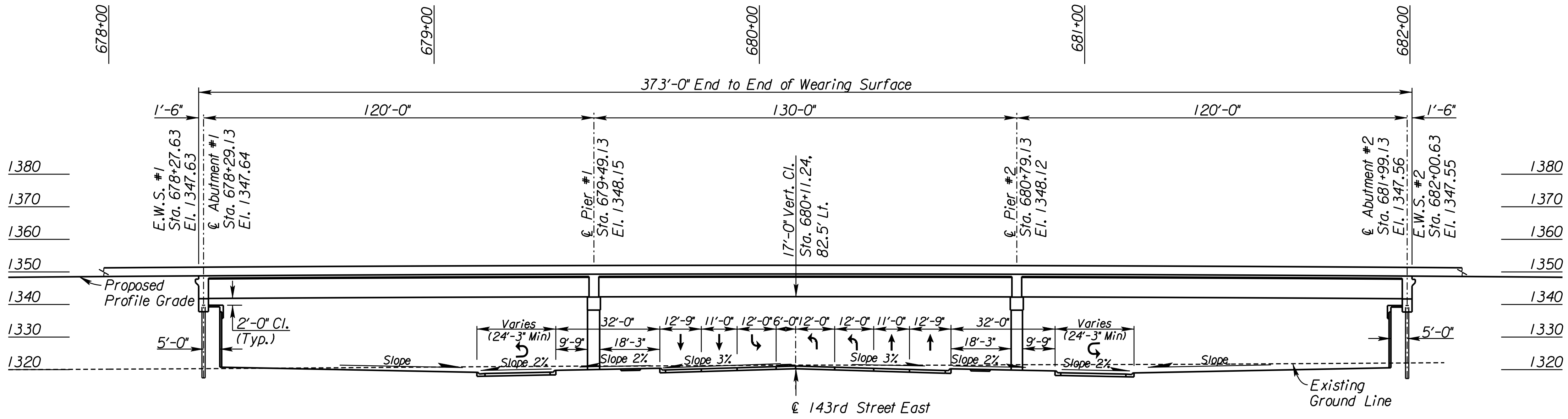
CITY OF WICHITA

EAST KELLOGG OVER 143RD STREET EAST

CONSTRUCTION LAYOUT I

BR. NO. STA. 680+14.13

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	192	534



DESIGN LOADING:

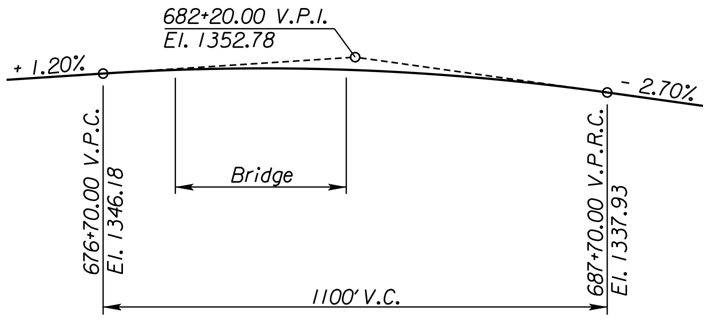
HL-93

ELEVATION

120'-130'-120'
Continuous Prestressed Concrete Beam Spans;
Pile Bent Abutments & Column Bent Piers,
1-80' & 1-60' Roadways, 0° Skew

UNIT STRESSES:

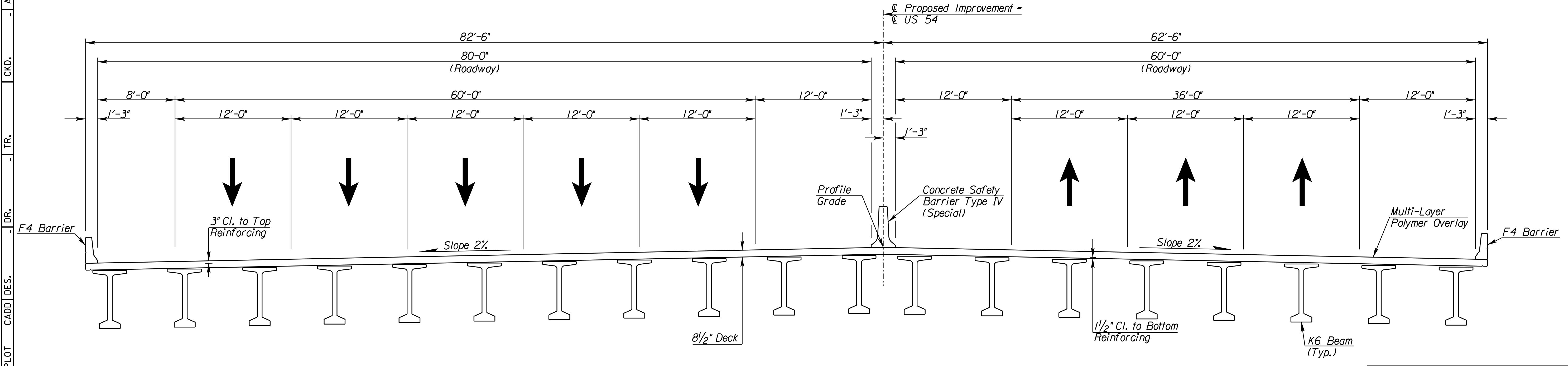
Concrete	f'c	= 4,000 psi
Reinforcing Steel	fy	= 60,000 psi



EAST KELLOGG VERTICAL PROFILE

143RD STREET EAST VERTICAL PROFILE

See Intersection Details for
Vertical Profile Under Bridge.



EAST KELLOGG OVER 143RD STREET EAST

Proposed Section

CITY OF WICHITA
EAST KELLOGG OVER 143RD STREET EAST
CONSTRUCTION LAYOUT II
BR. NO.
STA. 680+14.13

SURV. | - | PLOT | CADD | DES. | - | DR. | - | TR. | - | CKD. | - | APP. | -

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2/9/2011
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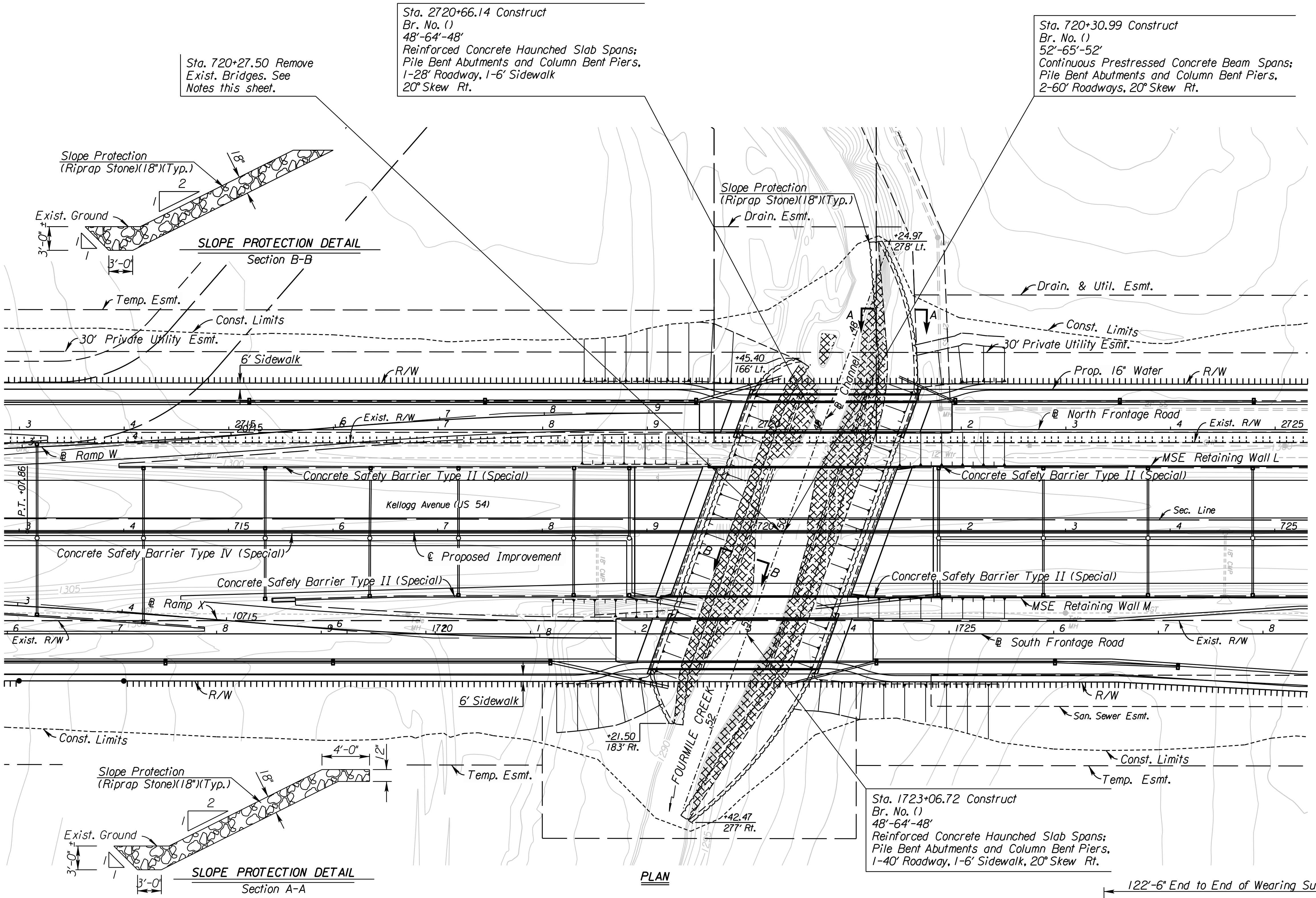
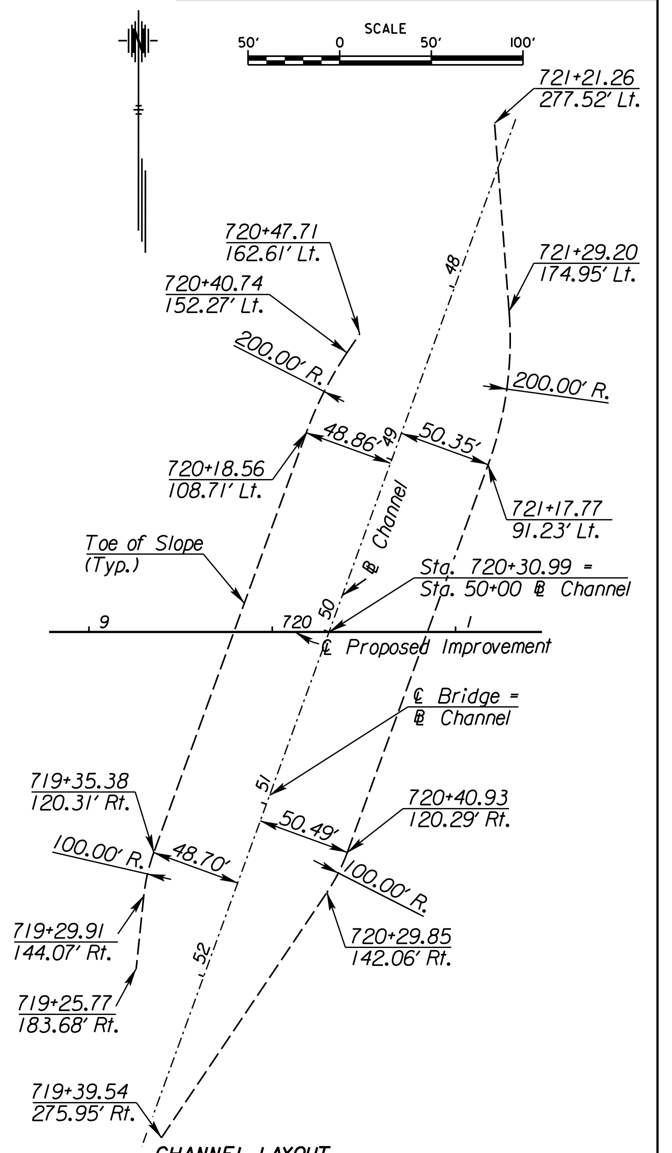
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	193	534



SLOPE PROTECTION DETAIL
Section B-B

PLAN

SLOPE PROTECTION DETAIL
Section A-A



CHANNEL LAYOUT

(Stations/Offsets from Ⓛ Proposed Improvement)

REMOVAL OF EXISTING STRUCTURE

The Contractor shall remove the existing bridges (K.D.O.T. No. XXXXX) consisting of 2-41' Roadways, Haunched Slab Bridges.

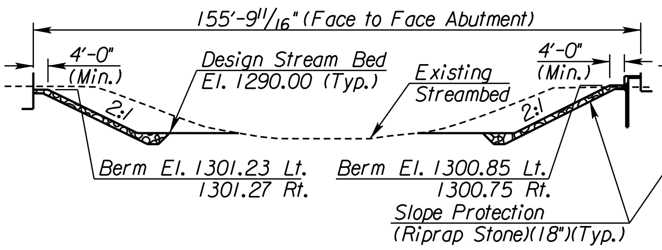
All material removed shall become the property of the Contractor and shall be removed from the project site by the Contractor. Remove all portions of the substructure (pilings, footings, etc.) at least 3' below the existing streambed.

All labor and work is included in the bid item "Removal of Existing Structures", Lump Sum.

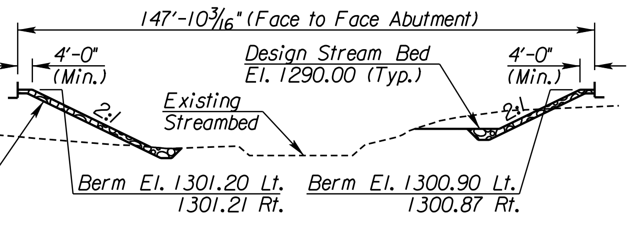
UTILITIES

Cable	Cox Communications
Power	Westar
Sanitary Sewer	Wichita Water & Sewer
Storm Water Sewer	Wichita Water & Sewer
Telephone	AT&T
Water	Wichita Water & Sewer

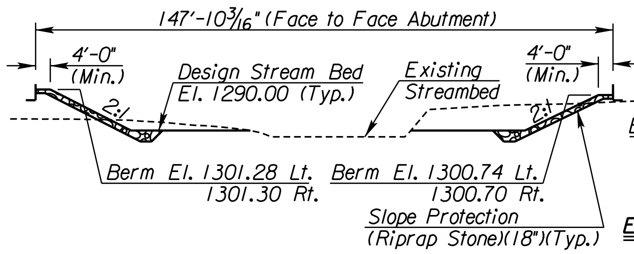
See Sh. No's. 102-130 for SWS Plans.
See Sh. No's. 136-139 for San. Sewer Plans.
See Sh. No's. 140-162 for Water Plans.



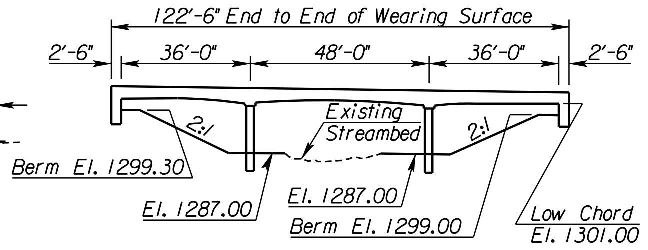
CHANNEL SECTION @ EAST KELLOGG BRIDGE
(Looking Upstream) (Normal to Ⓛ Channel)



CHANNEL SECTION @ NORTH FR. RD. BRIDGE
(Looking Upstream) (Normal to Ⓛ Channel)



CHANNEL SECTION @ SOUTH FR. RD. BRIDGE
(Looking Upstream) (Normal to Ⓛ Channel)



EXISTING EAST KELLOGG HAUNCH SLAB WATERWAY OPENING
(Looking Upstream) (Along Exist. Kellogg Ave.)
Waterway Opening = 1,192 Sq. Ft.

CITY OF WICHITA
EAST KELLOGG AND FRONTAGE ROADS OVER
FOURMILE CREEK
CONTOUR MAP
BR. NO. STA. 2720+66.14
BR. NO. STA. 720+30.99
BR. NO. STA. 1723+06.72

SURV. | PLOT | CADD | DES. | DR. | TR. | CKD. | APP.

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2/9/2011
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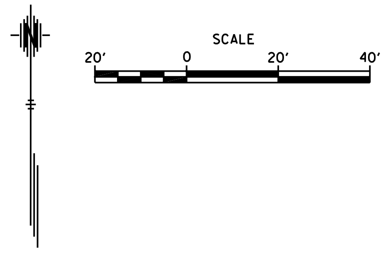
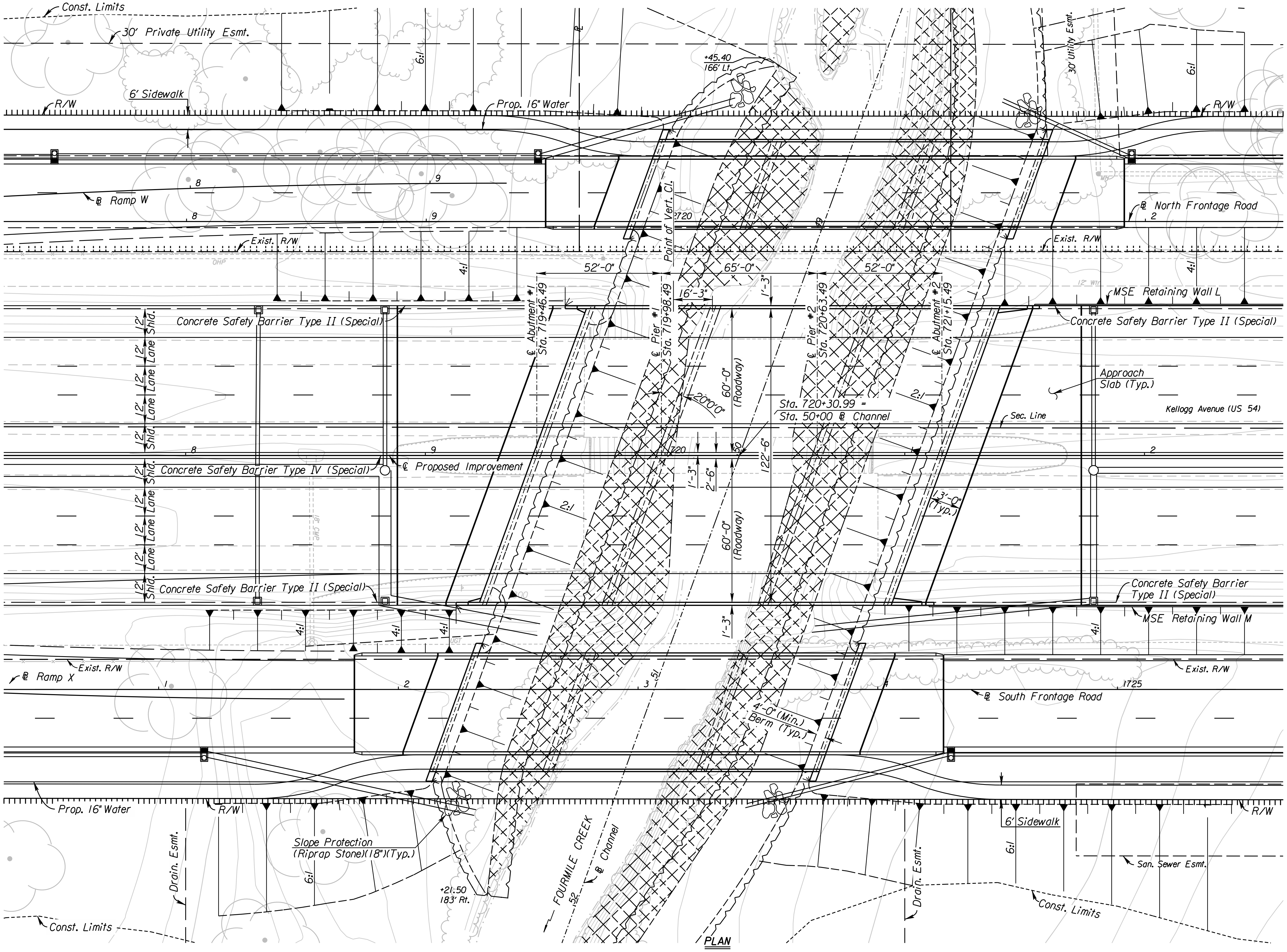
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	194	534





PLAN

DRAINAGE DATA

* Drainage Area	8.4	Sq. Mi.
Design Frequency	100	Years
** Design Discharge (Q_{100})	6,895	cfs
Design High Water Elevation	1298.94	Ft.
Design Backwater	N/A	Ft.
Design Backwater Elevation	1299.74	Ft.
Overtopping Elevation (Sta. N/A)	N/A	Ft.
Overtopping Discharge	N/A	cfs
Overtopping Frequency	>500	Years
** Discharge at Q_{100}	6,895	cfs
Backwater at Q_{100}	N/A	Ft.
Backwater Elevation at Q_{100}	1299.74	Ft.
Historic High Water Elevation	N/A	Ft.
Ordinary High Water Elevation	1292.0	Ft.
Total Waterway Provided	743	Sq. Ft.
Design Waterway Provided	212	Sq. Ft.
100 Yr. Floodplain Elev. (FEMA)		
Average Velocity at Q_{des}	5.9	fps
Average Velocity at Q_{100}	5.9	fps

* Drainage Area for Fourmile Creek
** Discharge is controlled and published by FEMA

CITY OF WICHITA
EAST KELLOGG OVER FOURMILE CREEK
CONSTRUCTION LAYOUT I
BR. NO.
STA. 720+30.99

SURV.	PLOT	CADD	DES.	DR.	TR.	CKD.	APP.
-				-	-	-	-

10:50:37 AM
2/9/2011
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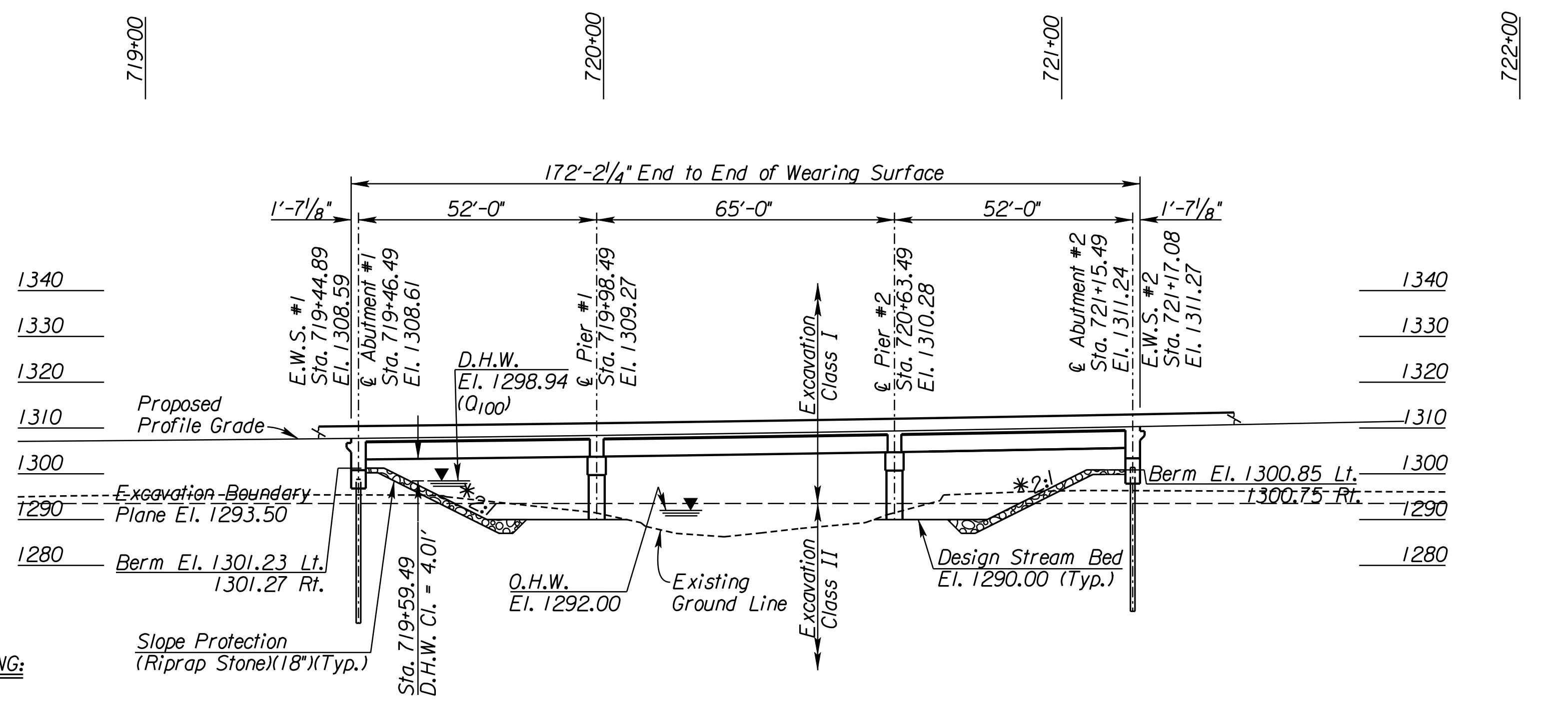
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	195	534

SCALE
20' 0 20' 40'



DESIGN LOADING:

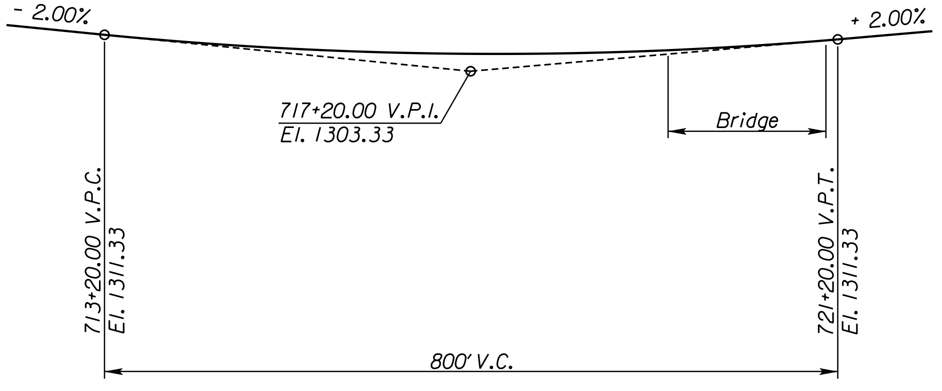
HL-93

UNIT STRESSES:

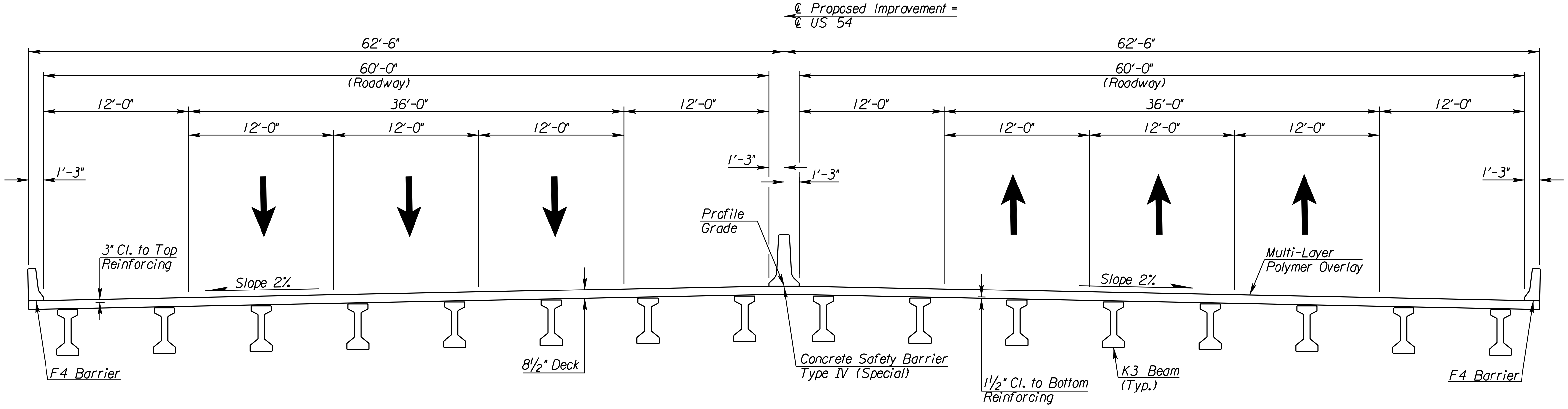
Concrete f'c = 4,000 psi
Reinforcing Steel fy = 60,000 psi

ELEVATION
52'-65'-52'
Continuous Prestressed Concrete Beam Spans;
Pile Bent Abutments and Column Bent Piers,
2-60' Roadways, 20° Skew Rt.

* Normal to ℄ Channel



VERTICAL PROFILE



EAST KELLOGG OVER FOURMILE CREEK
Proposed Section

CITY OF WICHITA
EAST KELLOGG OVER FOURMILE CREEK
CONSTRUCTION LAYOUT II
BR. NO. STA. 720+30.99

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2/9/2011
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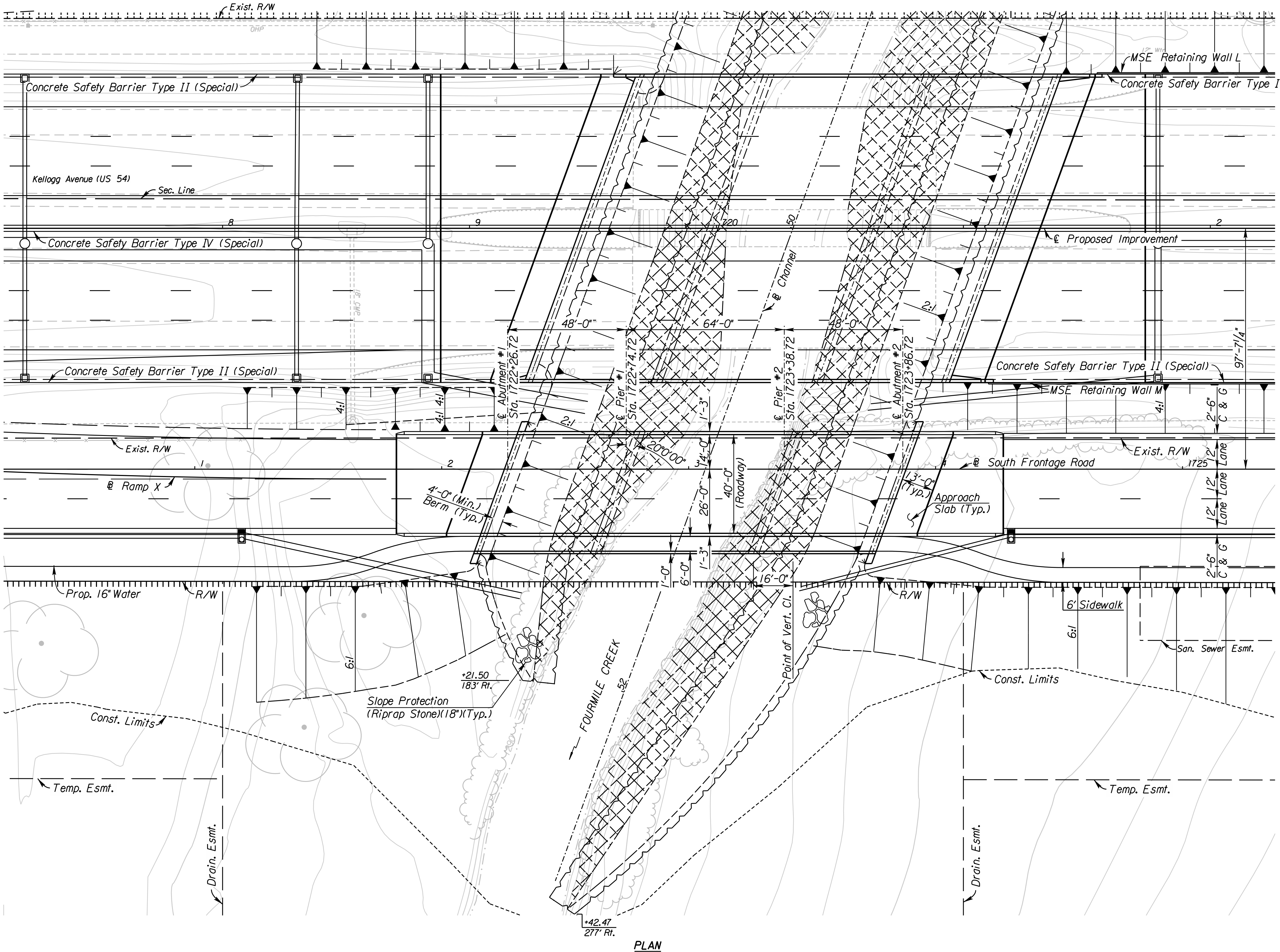
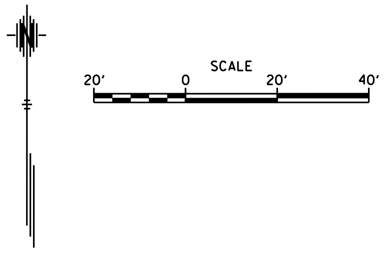
SURV. - PLOT CADD DES. - DR. - TR. - CKD. - APP. -

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	196	534



PLAN



DRAINAGE DATA

✱Drainage Area	8.4	Sq. Mi.
Design Frequency	100	Years
✱✱Design Discharge (Q_{100})	6,895	cfs
Design High Water Elevation	1298.16	Ft.
Design Backwater	N/A	Ft.
Design Backwater Elevation	1297.34	Ft.
Overtopping Elevation (Sta. N/A)	N/A	Ft.
Overtopping Discharge	N/A	cfs
Overtopping Frequency	>500	Years
✱✱Discharge at Q_{100}	6,895	cfs
Backwater at Q_{100}	N/A	Ft.
Backwater Elevation at Q_{100}	N/A	Ft.
Historic High Water Elevation	N/A	Ft.
Ordinary High Water Elevation	1292.0	Ft.
Total Waterway Provided	1551	Sq. Ft.
Design Waterway Provided	1154	Sq. Ft.
100 Yr. Floodplain Elev. (FEMA)		
Average Velocity at Q_{des}	5.9	fps
Average Velocity at Q_{100}	5.9	fps

✱ Drainage Area for Fourmile Creek
✱✱ Discharge is controlled and published by FEMA

CITY OF WICHITA
SOUTH FRONTAGE ROAD OVER FOURMILE CREEK
CONSTRUCTION LAYOUT I
BR. NO. STA. 1723+06.72

SURV.	-	PLOT	CADD	DES.	-	DR.	-	TR.	-	CKD.	-	APP.	-

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2/9/2011
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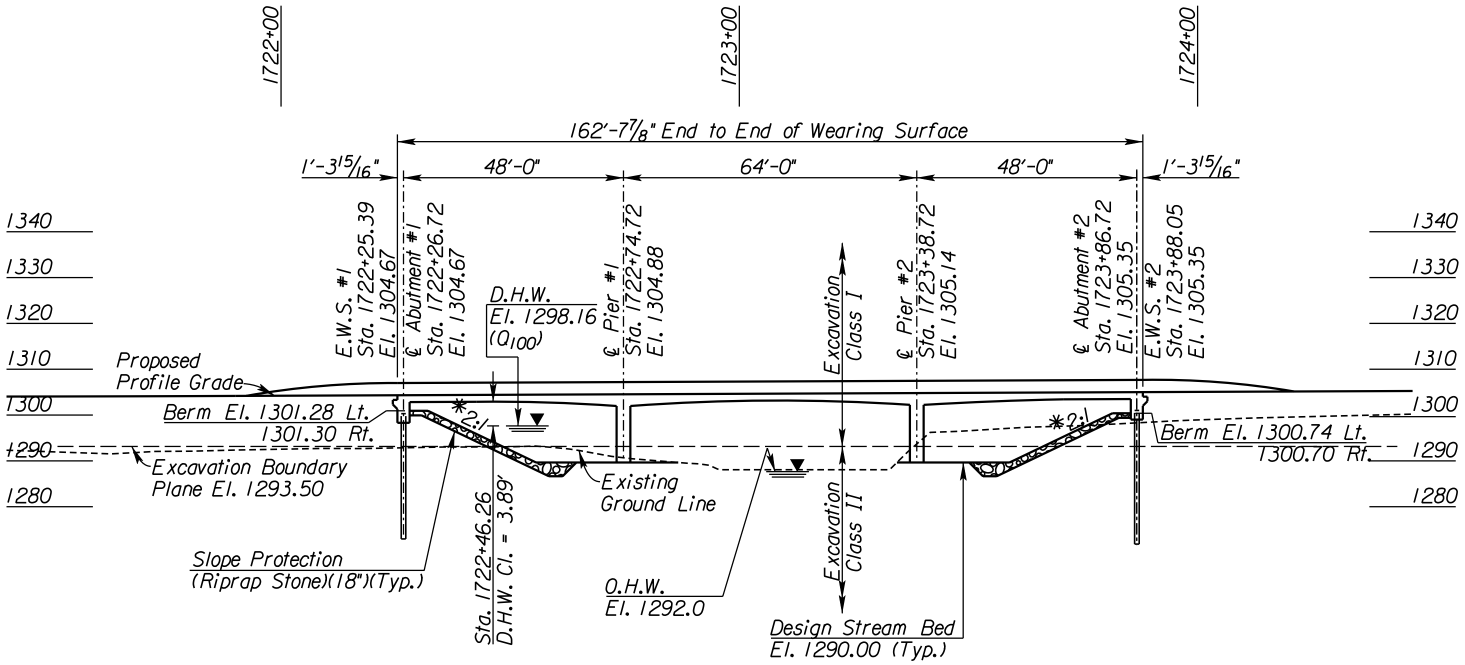
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	197	534

SCALE 20' 0 20' 40'



ELEVATION

48'-64'-48'

Reinforced Concrete Haunched Slab Spans;
Pile Bent Abutment and Column Bent Piers.
1-40' Roadway, 1-6' Sidewalk, 20° Skew Rt.

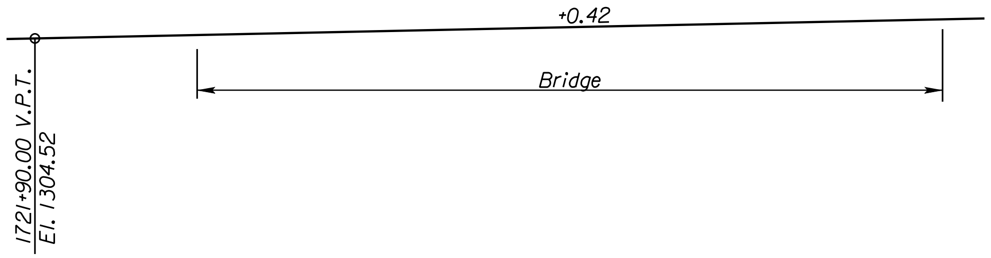
* Normal to ℄ Channel

DESIGN LOADING:

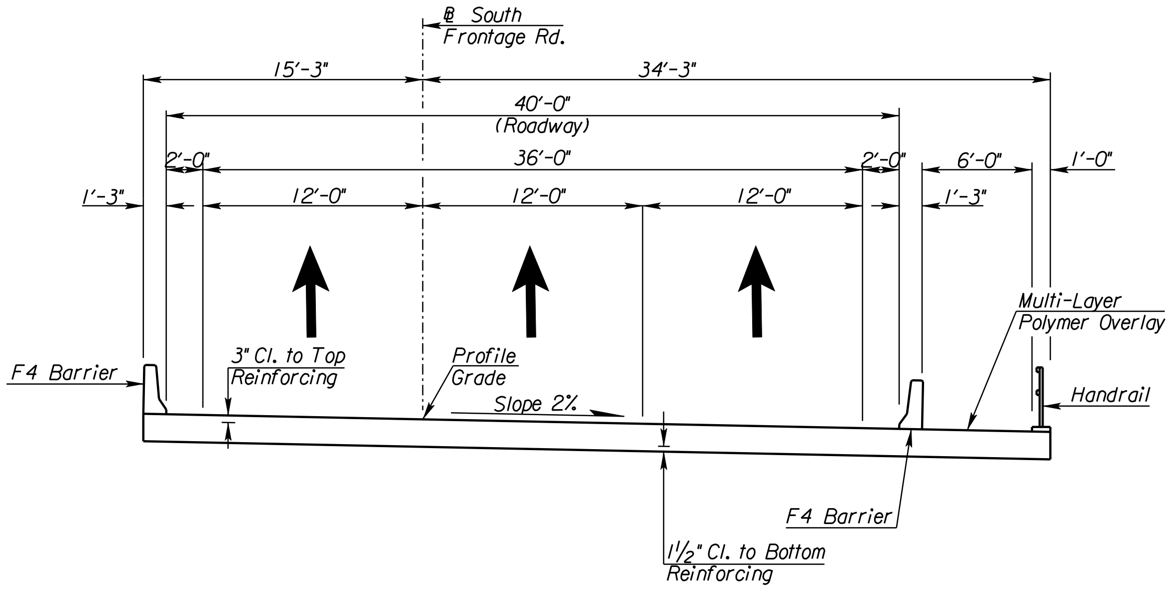
HL-93

UNIT STRESSES:

Concrete	f'c =	4,000 psi
Reinforcing Steel	fy =	60,000 psi



VERTICAL PROFILE



SOUTH FRONTAGE ROAD OVER FOURMILE CREEK

Proposed Section

CITY OF WICHITA

SOUTH FRONTAGE ROAD OVER FOURMILE CREEK

CONSTRUCTION LAYOUT II

BR. NO. STA. 1723+06.72

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2/9/2011
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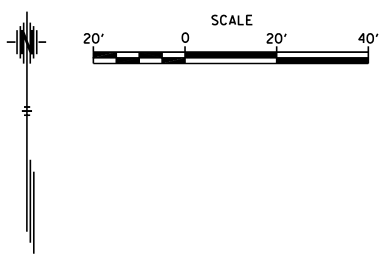
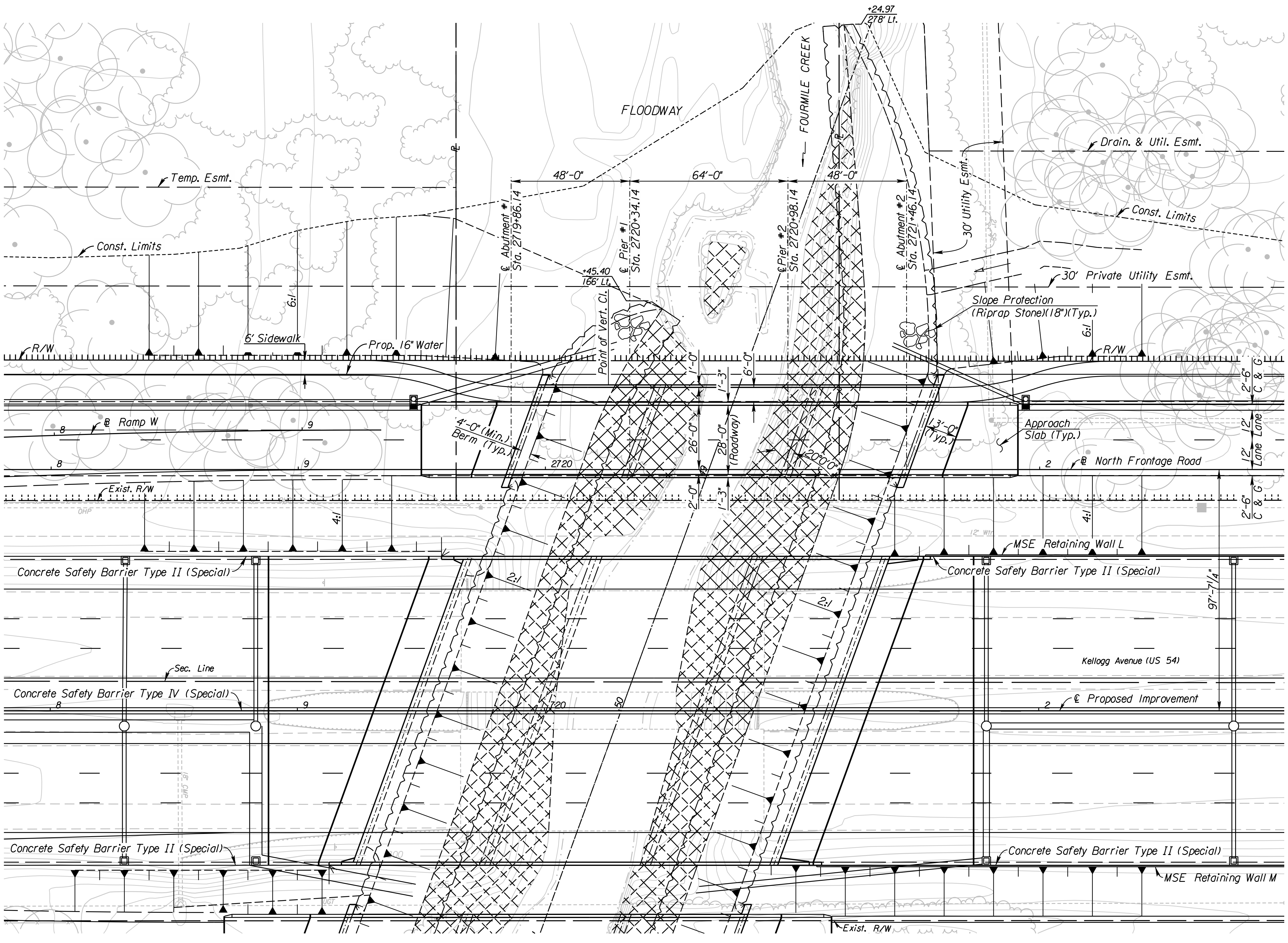
SURV.	-	PLOT	CADD	DES.	-	DR.	-	TR.	-	CKD.	-	APP.	-

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	198	534





PLAN

DRAINAGE DATA

∗Drainage Area	8.4	Sq. Mi.
Design Frequency	100	Years
∗∗Design Discharge (Q_{100})	6,895	cfs
Design High Water Elevation	1299.34	Ft.
Design Backwater	N/A	Ft.
Design Backwater Elevation	1299.74	Ft.
Overtopping Elevation (Sta. N/A)	N/A	Ft.
Overtopping Discharge	N/A	cfs
Overtopping Frequency	>500	Years
∗∗Discharge at Q_{100}	6,895	cfs
Backwater at Q_{100}	N/A	Ft.
Backwater Elevation at Q_{100}	1299.74	Ft.
Historic High Water Elevation	N/A	Ft.
Ordinary High Water Elevation	1292.0	Ft.
Total Waterway Provided	1586	Sq. Ft.
Design Waterway Provided	1154	Sq. Ft.
100 Yr. Floodplain Elev. (FEMA)		
Average Velocity at Q_{des}	5.9	fps
Average Velocity at Q_{100}	5.9	fps

∗ Drainage Area for Fourmile Creek
∗∗ Discharge is controlled and published by FEMA

CITY OF WICHITA
NORTH FRONTAGE ROAD OVER FOURMILE CREEK
CONSTRUCTION LAYOUT I
BR. NO.
STA. 2720+66.14

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2/9/2011
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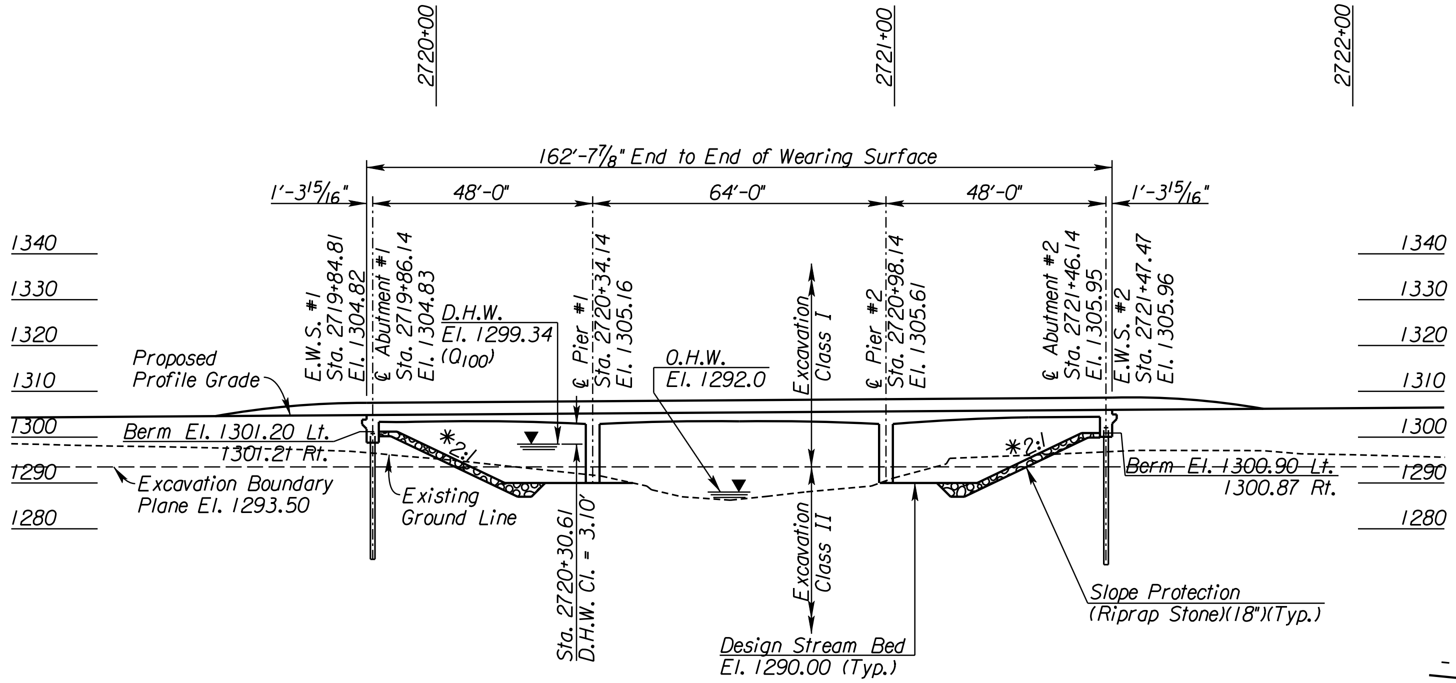
SURV.	-	PLOT	CADD	DES.	-	DR.	-	TR.	CKD.	-	APP.	-

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	199	534



ELEVATION

48'-64'-48'

Reinforced Concrete Haunched Slab Spans;
Pile Bent Abutments and Column Bent Piers,
1-28' Roadway, 1-6' Sidewalk, 20° Skew Rt.

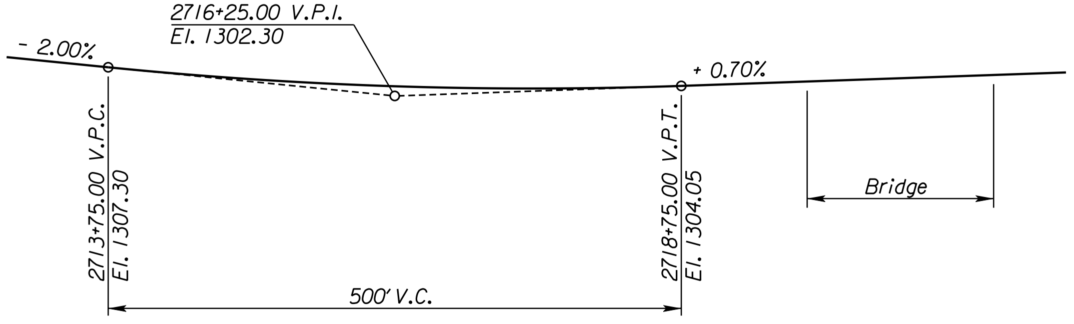
* Normal to ℄ Channel

DESIGN LOADING:

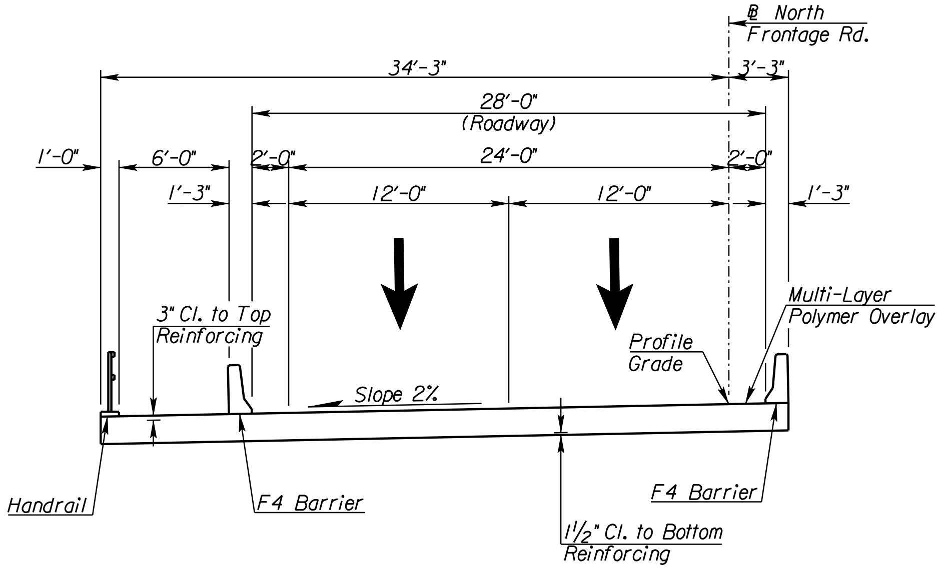
HL-93

UNIT STRESSES:

Concrete	f'c	= 4,000 psi
Reinforcing Steel	fy	= 60,000 psi



VERTICAL PROFILE



NORTH FRONTAGE ROAD OVER FOURMILE CREEK

Proposed Section

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2/9/2011
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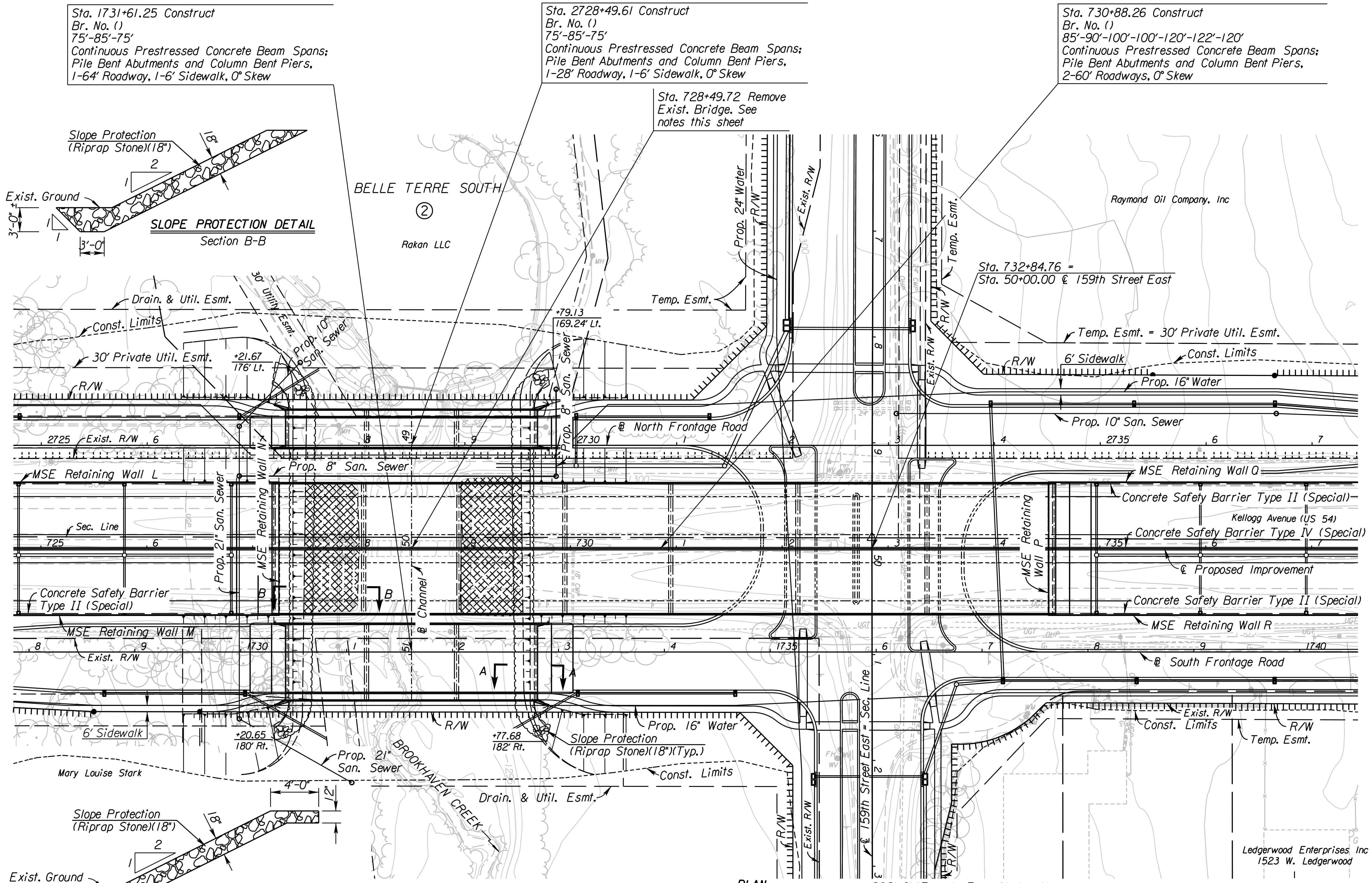
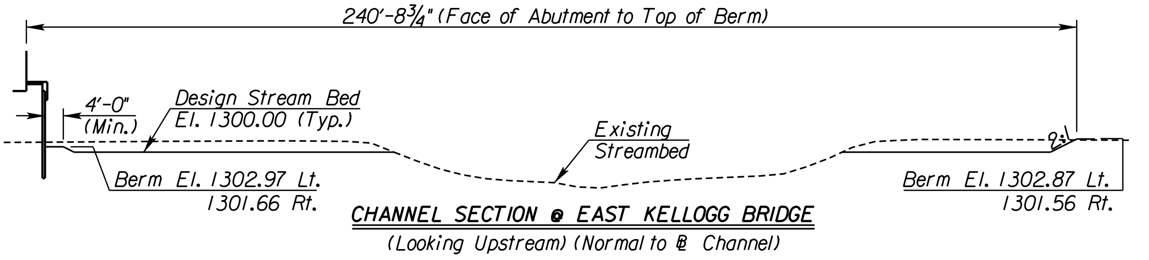
SURV.	-	PLOT	CADD	DES.	-	DR.	-	TR.	-	CKD.	-	APP.	-

CITY OF WICHITA
NORTH FRONTAGE ROAD OVER FOURMILE CREEK
CONSTRUCTION LAYOUT II
BR. NO.
STA. 2720+66.14

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	200	534

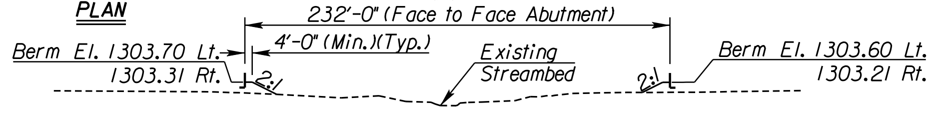


PLAN



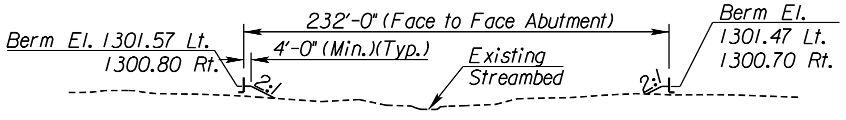
CHANNEL SECTION @ EAST KELLOGG BRIDGE

(Looking Upstream) (Normal to ℄ Channel)



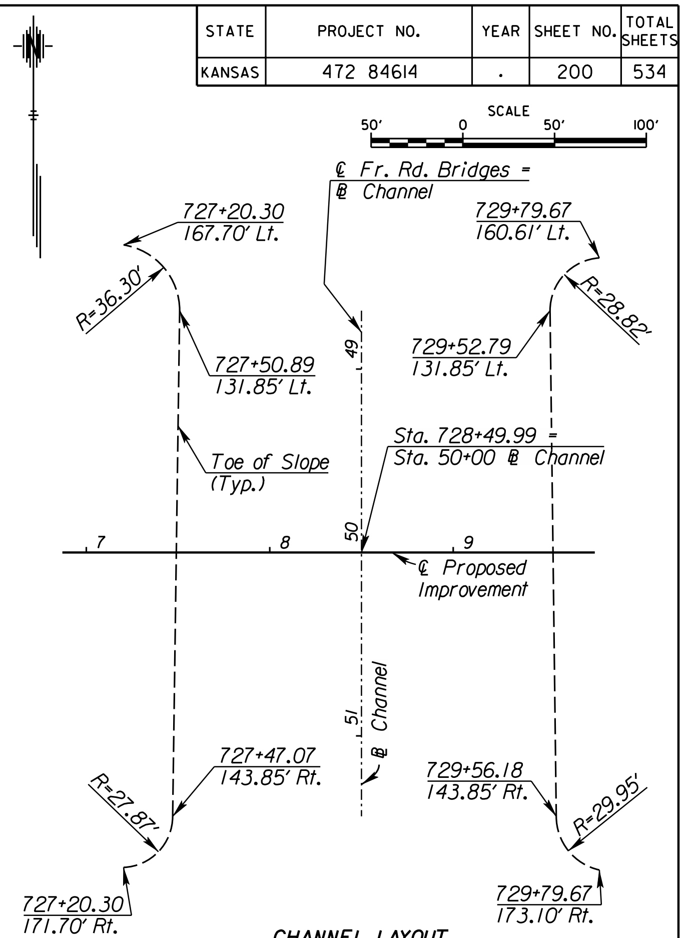
CHANNEL SECTION @ NORTH FR. RD. BRIDGE

(Looking Upstream) (Normal to ℄ Channel)



CHANNEL SECTION @ SOUTH FR. RD. BRIDGE

(Looking Upstream) (Normal to ℄ Channel)



CHANNEL LAYOUT

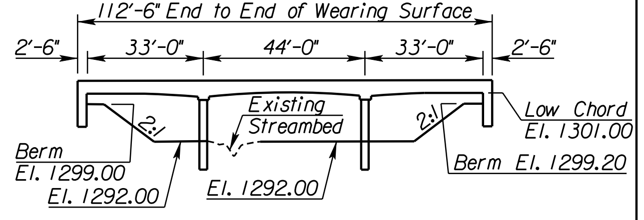
(Stations/Offsets from ℄ Proposed Improvement)

REMOVAL OF EXISTING STRUCTURE

The Contractor shall remove the existing bridge (K.D.O.T. No. XXXXX) consisting of 2-41' Roadways.

All material removed shall become the property of the Contractor and shall be removed from the project site by the Contractor. Remove all portions of the substructure (pilings, footings, etc.) at least 3' below the existing streambed.

All labor and work is included in the bid item "Removal of Existing Structures", Lump Sum.



EXISTING EAST KELLOGG HAUNCH SLAB WATERWAY OPENING

(Looking Upstream) (Normal to ℄ Channel)
Waterway Opening = 829 Sq. Ft.

UTILITIES

Cable	Cox Communications
Gas,	Kansas Gas Service
Power	Westar
Sanitary Sewer	Wichita Water & Sewer
Storm Water Sewer	Wichita Water & Sewer
Telephone	AT&T
Traffic Signal	City of Wichita
Water	Wichita Water & Sewer

See Sh. No's. 102-130 for SWS Plans.
See Sh. No's. 136-139 for San. Sewer Plans.
See Sh. No's. 140-162 for Water Plans.

CITY OF WICHITA
EAST KELLOGG & FRONTAGE ROADS
OVER BROOKHAVEN CREEK & 159TH STREET EAST
CONTOUR MAP

BR. NO. STA. 2728+49.61
BR. NO. STA. 730+88.26
BR. NO. STA. 1731+61.25

SURV.	-	PLOT	CADD	DES.	-	DR.	-	TR.	-	CKD.	-	APP.	-

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2/9/2011
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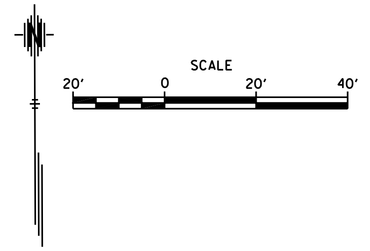
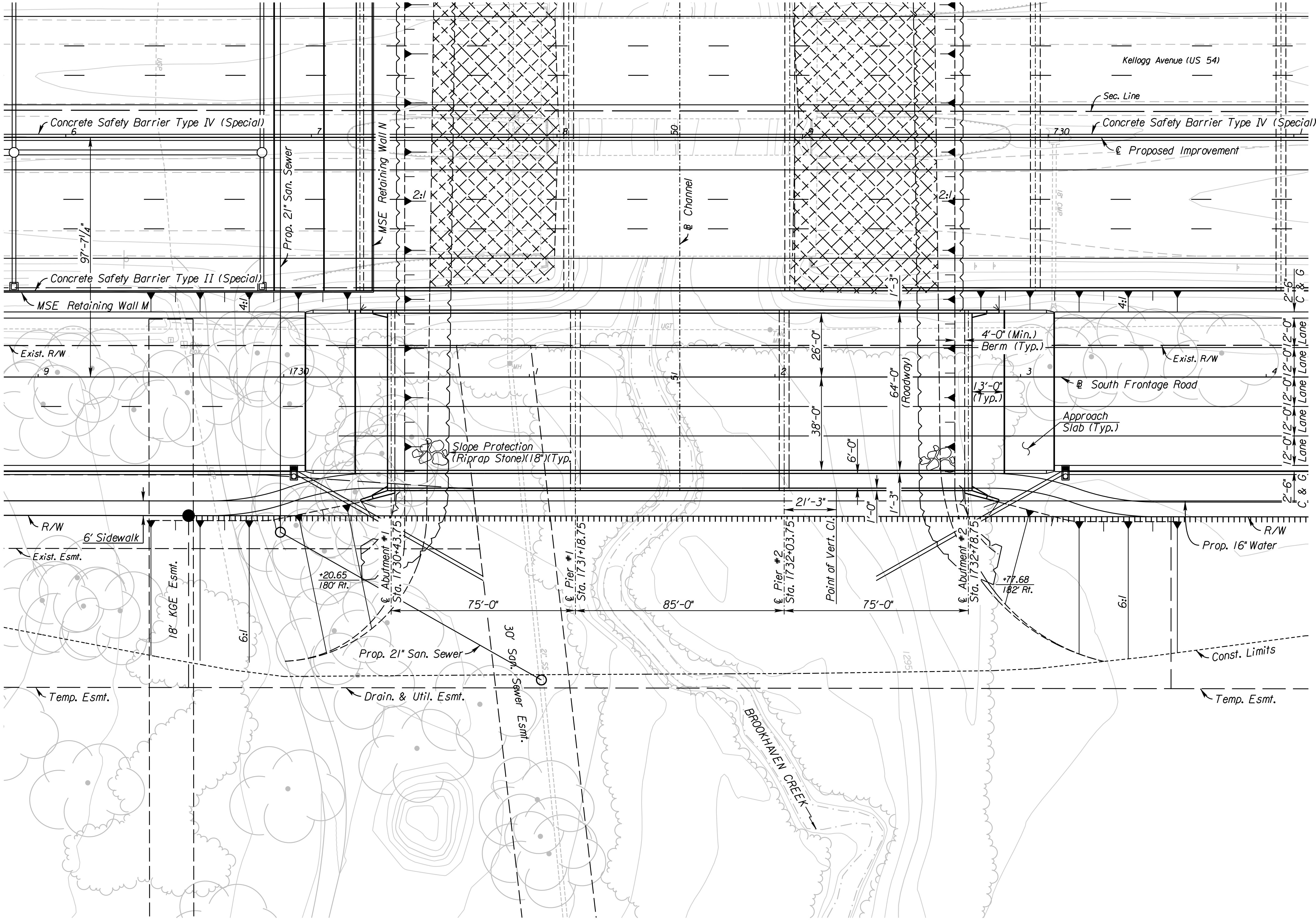
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	201	534





PLAN

DRAINAGE DATA

*	Drainage Area	4.0	Sq. Mi.
	Design Frequency	100	Years
**	Design Discharge (Q_{100})	4,307	cfs
	Design High Water Elevation	1299.10	Ft.
	Design Backwater	N/A	Ft.
	Design Backwater Elevation	1302.22	Ft.
	Overtopping Elevation (Sta. N/A)	N/A	Ft.
	Overtopping Discharge	N/A	cfs
	Overtopping Frequency	>500	Years
**	Discharge at Q_{100}	4,307	cfs
	Backwater at Q_{100}	N/A	Ft.
	Backwater Elevation at Q_{100}	1302.22	Ft.
	Historic High Water Elevation	N/A	Ft.
	Ordinary High Water Elevation	1295.0	Ft.
	Total Waterway Provided	1616	Sq. Ft.
	Design Waterway Provided	775	Sq. Ft.
	100 Yr. Floodplain Elev. (FEMA)		
	Average Velocity at Q_{des}	5.6	fps
	Average Velocity at Q_{100}	5.6	fps

* Drainage Area for Brookhaven Creek
** Discharge is controlled and published by FEMA

CITY OF WICHITA
SOUTH FRONTAGE ROAD OVER BROOKHAVEN CREEK
CONSTRUCTION LAYOUT I
BR. NO.
STA. 1731+61.25

SURV.	PLOT	CADD	DES.	-	DR.	-	TR.	-	CKD.	-	APP.	-

10:52:03 AM
2/9/2011
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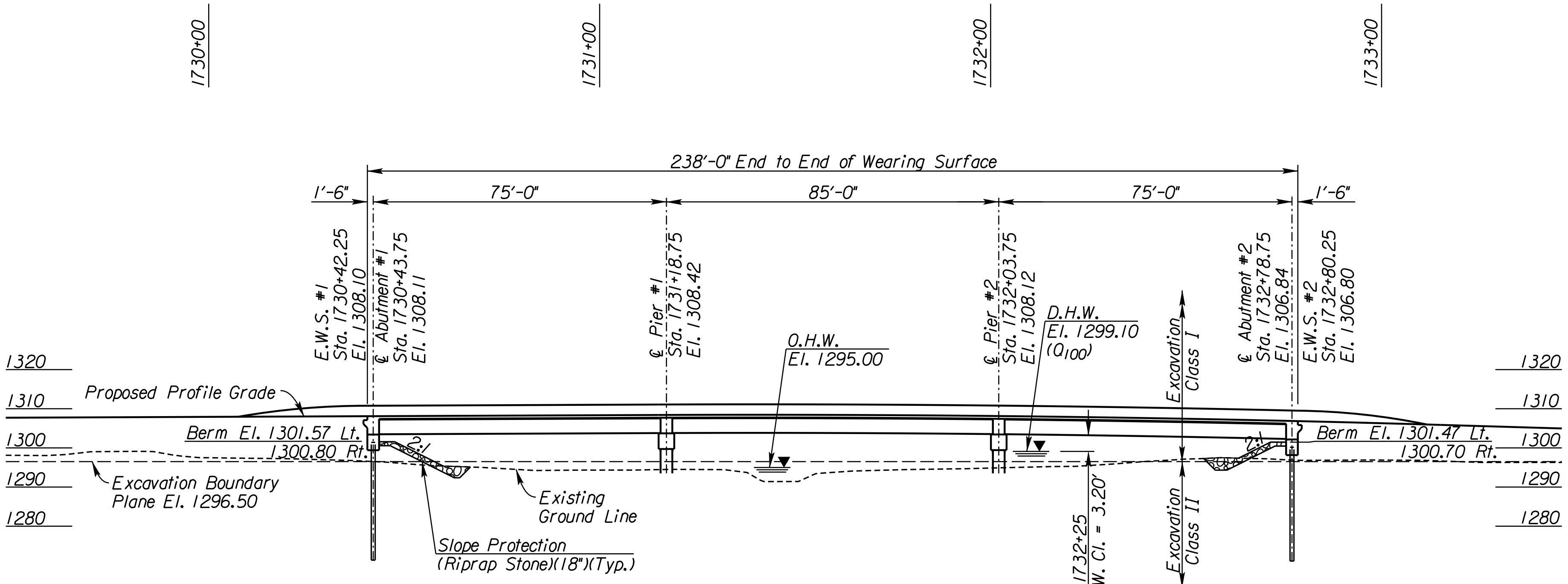
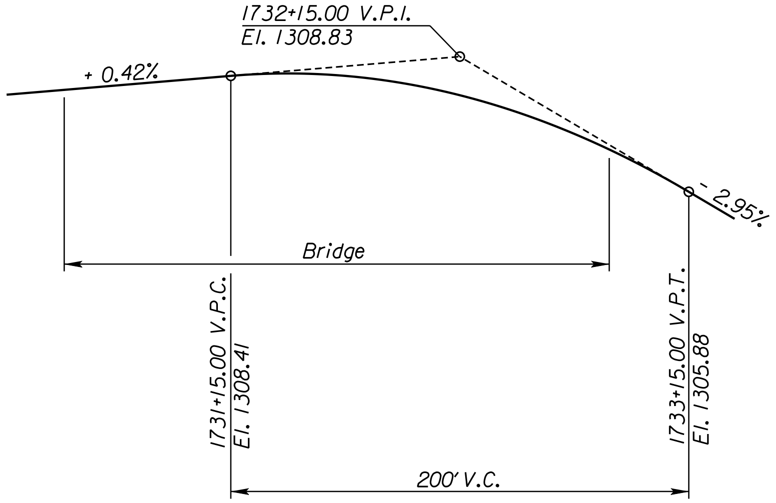
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	202	534



ELEVATION

75'-85'-75'
Continuous Prestressed Concrete Beam Spans;
Pile Bent Abutments & Column Bent Piers,
1-64' Roadway, 1-6' Sidewalk, 0° Skew

SCALE
20' 0 20' 40'



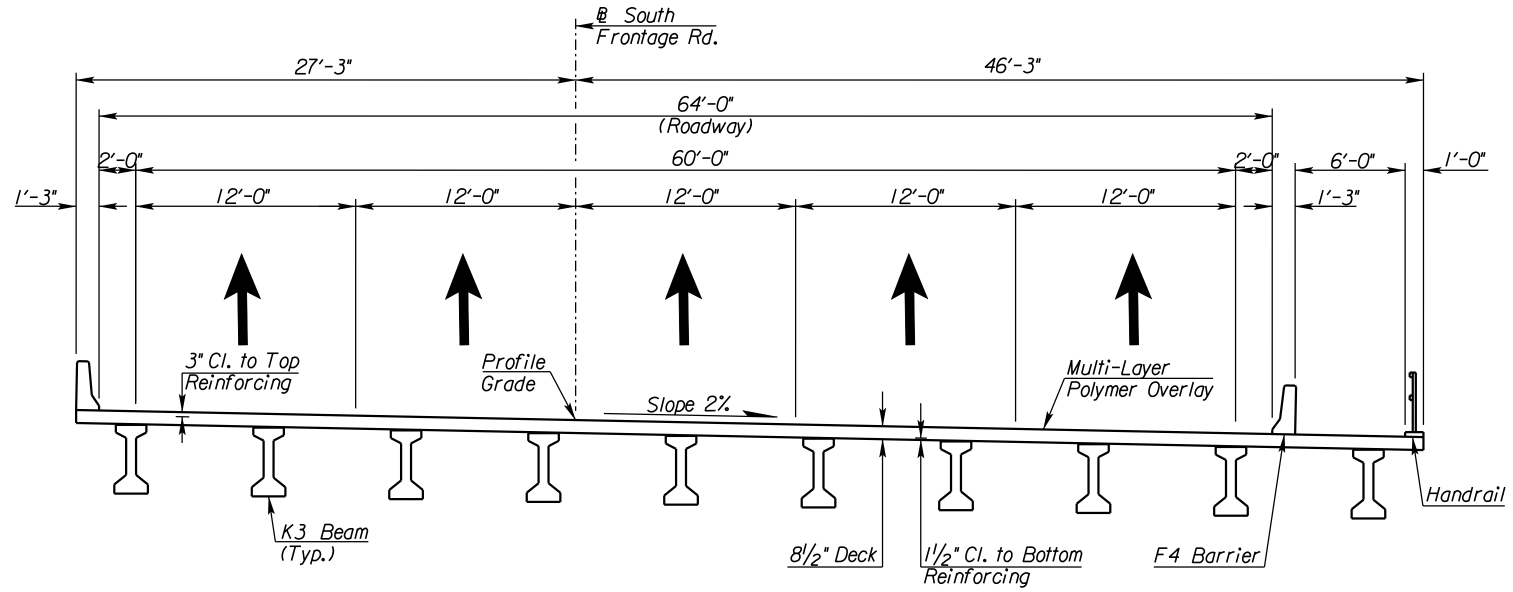
VERTICAL PROFILE

DESIGN LOADING:

HL-93

UNIT STRESSES:

Concrete f'c = 4,000 psi
Reinforcing Steel fy = 60,000 psi



SOUTH FRONTAGE ROAD OVER BROOKHAVEN CREEK

Proposed Section

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2/9/2011
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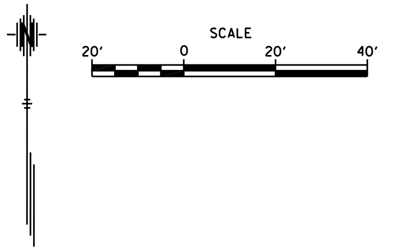
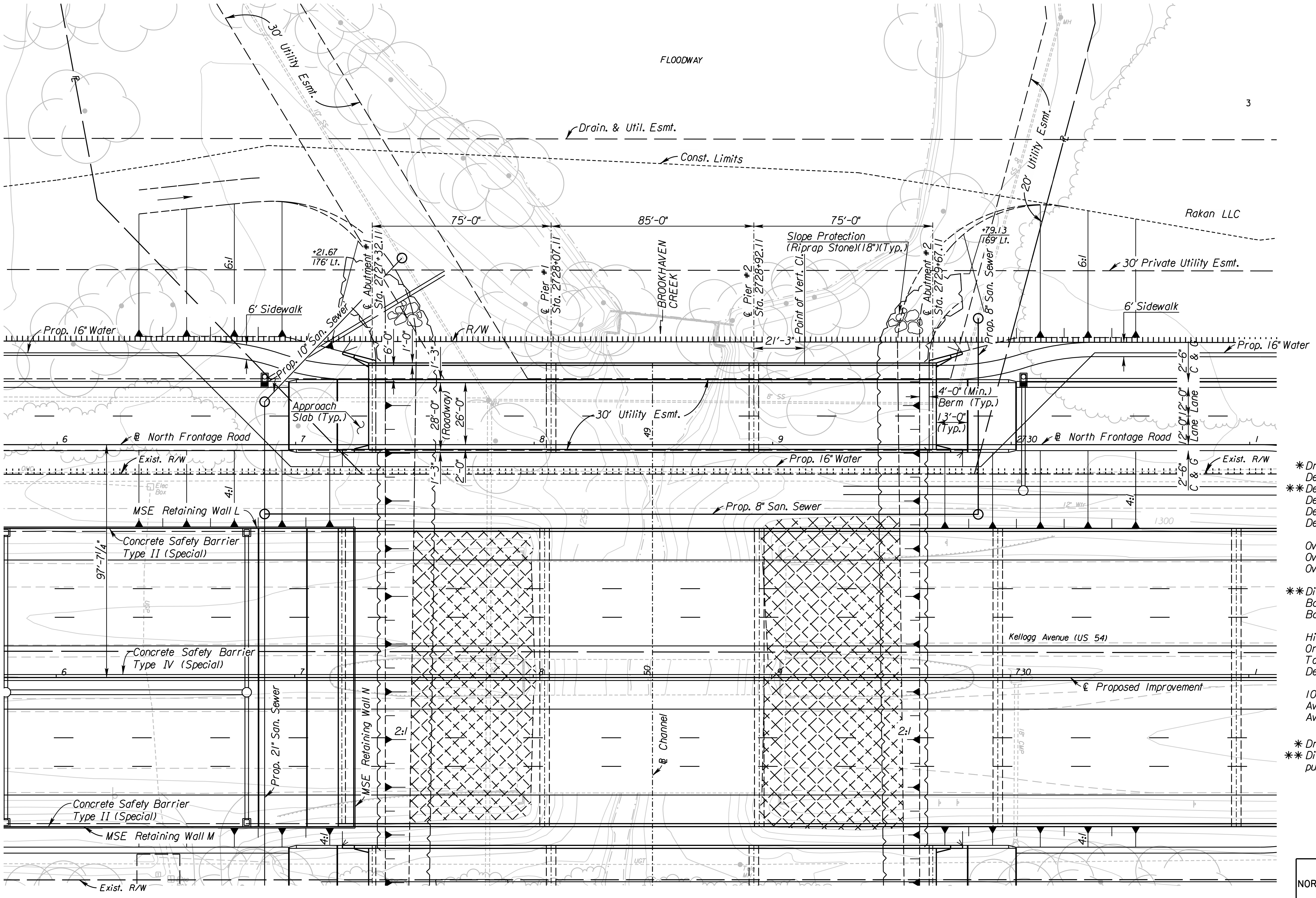
SURV.	-	PLOT	CADD	DES.	-	DR.	-	TR.	-	CKD.	-	APP.	-

CITY OF WICHITA
SOUTH FRONTAGE ROAD OVER BROOKHAVEN CREEK
CONSTRUCTION LAYOUT II
BR. NO. STA. 1731+61.25

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	203	534





PLAN

DRAINAGE DATA

∗Drainage Area	4.0	Sq. Mi.
Design Frequency	100	Years
∗∗Design Discharge (Q_{100})	4,307	cfs
Design High Water Elevation	1301.71	Ft.
Design Backwater	N/A	Ft.
Design Backwater Elevation	1302.22	Ft.
Overtopping Elevation (Sta. N/A)	N/A	Ft.
Overtopping Discharge	N/A	cfs
Overtopping Frequency	>500	Years
∗∗Discharge at Q_{100}	4,307	cfs
Backwater at Q_{100}	N/A	Ft.
Backwater Elevation at Q_{100}	1302.22	Ft.
Historic High Water Elevation	N/A	Ft.
Ordinary High Water Elevation	1295	Ft.
Total Waterway Provided	1,863	Sq. Ft.
Design Waterway Provided	775	Sq. Ft.
100 Yr. Floodplain Elev. (FEMA)		
Average Velocity at Q_{des}	5.6	fps
Average Velocity at Q_{100}	5.6	fps

∗ Drainage Area for Brookhaven Creek
∗∗ Discharge is controlled and published by FEMA

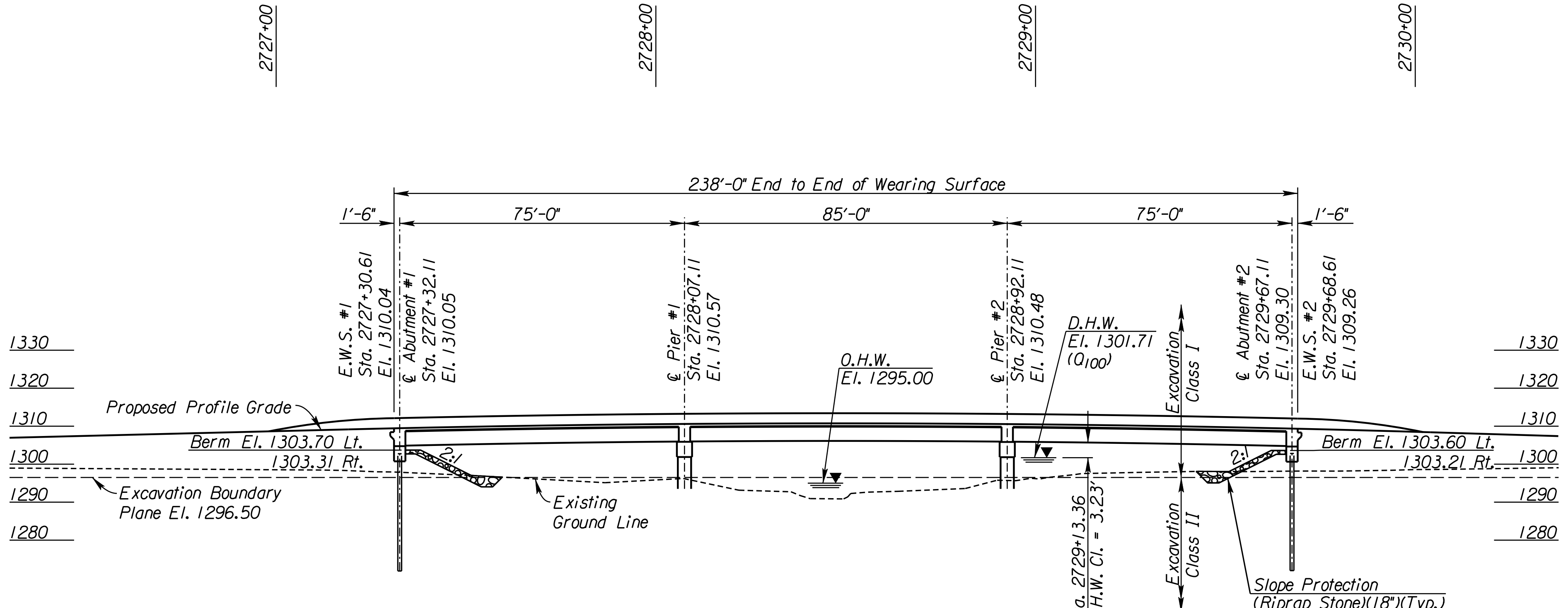
CITY OF WICHITA
NORTH FRONTAGE ROAD OVER BROOKHAVEN CREEK
CONSTRUCTION LAYOUT I
BR. NO.
STA. 2728+49.61

SURV. - PLOT CADD DES. - DR. - TR. - CKD. - APP.

10:52:23 AM
2/9/2011
T:\35766A\Cadd\Sheets\Structures\Bridge\BHCR\NFR\EK2BHNFCLY01.dgn

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	204	534

SCALE
20' 0 20' 40'



ELEVATION

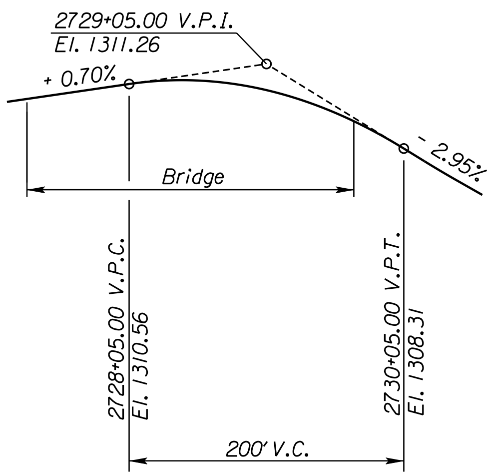
75'-85'-75'
Continuous Prestressed Concrete Beam Spans;
Pile Bent Abutments & Column Bent Piers,
1-28' Roadway, 1-6' Sidewalk, 0° Skew

DESIGN LOADING:

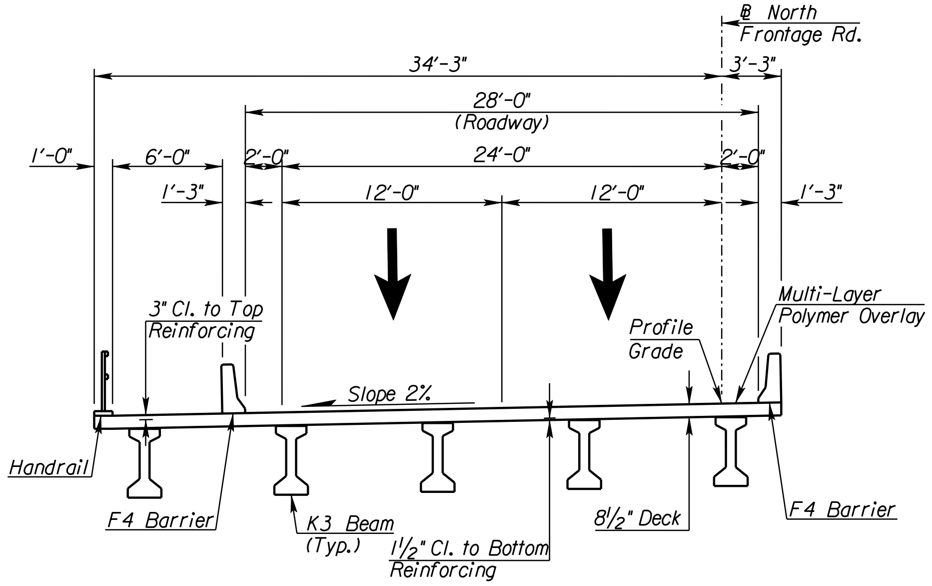
HL-93

UNIT STRESSES:

Concrete	f'c	=	4,000 psi
Reinforcing Steel	fy	=	60,000 psi



VERTICAL PROFILE



NORTH FRONTAGE ROAD OVER BROOKHAVEN CREEK
Proposed Section

10:52:28 AM
2/9/2011
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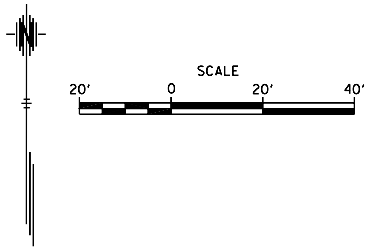
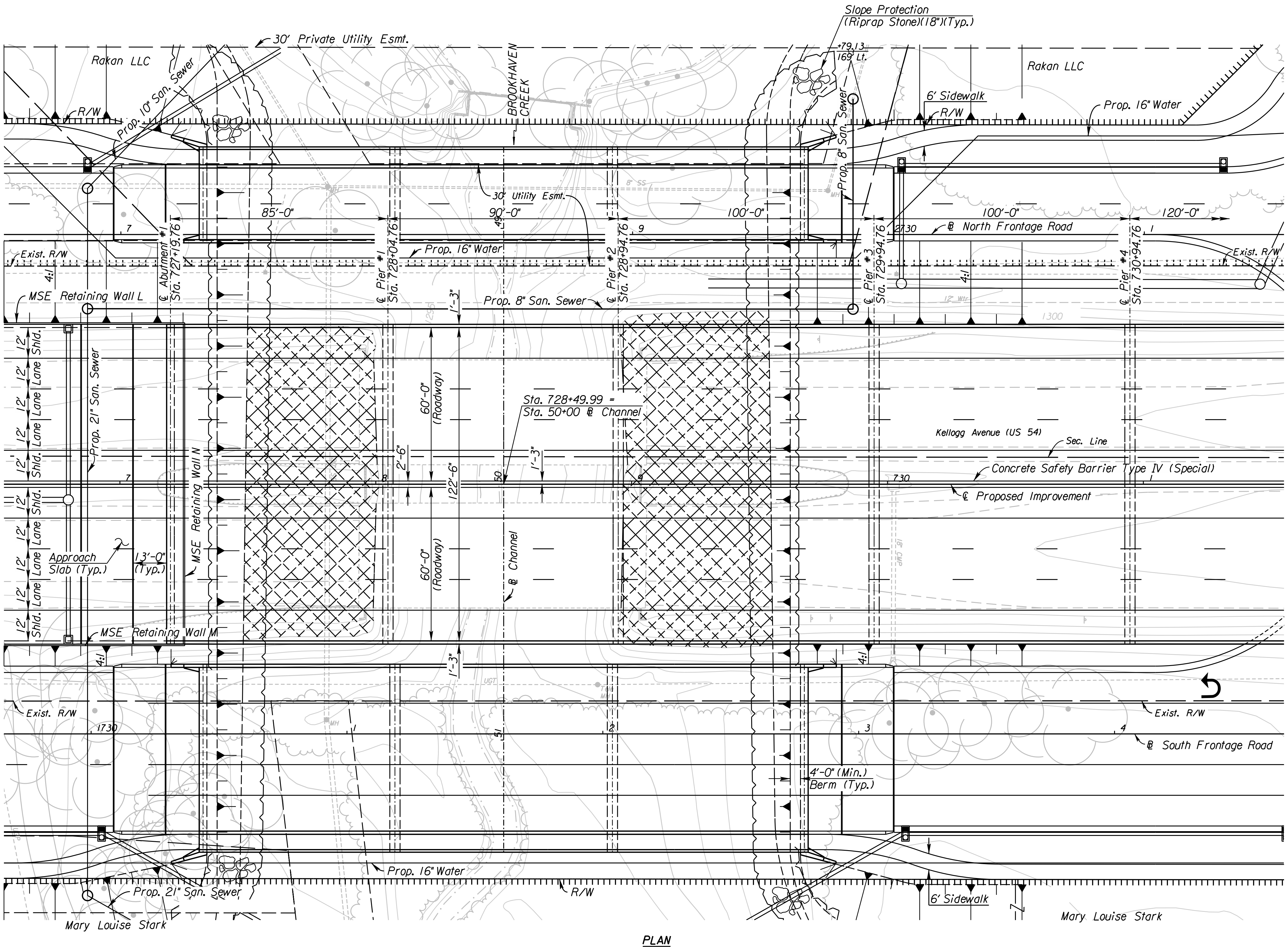
SURV.	-	PLOT	CADD	DES.	-	DR.	-	TR.	-	CKD.	-	APP.	-

CITY OF WICHITA
NORTH FRONTAGE ROAD OVER BROOKHAVEN CREEK
CONSTRUCTION LAYOUT II
BR. NO. STA. 2728+49.61

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	205	534





PLAN

DRAINAGE DATA

✱Drainage Area	4.0	Sq. Mi.
Design Frequency	100	Years
✱✱Design Discharge (Q_{100})	4,307	cfs
Design High Water Elevation	1300.80	Ft.
Design Backwater	N/A	Ft.
Design Backwater Elevation	1302.22	Ft.
Overtopping Elevation (Sta. N/A)	N/A	Ft.
Overtopping Discharge	N/A	cfs
Overtopping Frequency	>500	Years
✱✱Discharge at Q_{100}	4,307	cfs
Backwater at Q_{100}	N/A	Ft.
Backwater Elevation at Q_{100}	1302.22	Ft.
Historic High Water Elevation	N/A	Ft.
Ordinary High Water Elevation	1295	Ft.
Total Waterway Provided	N/A	Sq. Ft.
Design Waterway Provided	193	Sq. Ft.
100 Yr. Floodplain Elev. (FEMA)		
Average Velocity at Q_{des}	5.6	fps
Average Velocity at Q_{100}	5.6	fps

✱ Drainage Area for Brookhaven Creek
✱✱ Discharge is controlled and published by FEMA

CITY OF WICHITA
EAST KELLOGG OVER BROOKHAVEN CREEK
& 159TH STREET EAST
CONSTRUCTION LAYOUT I

BR. NO. STA. 730+88.26

SURV. - PLOT - CADD DES. - DR. - TR. - CKD. - APP. -

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2/9/2011
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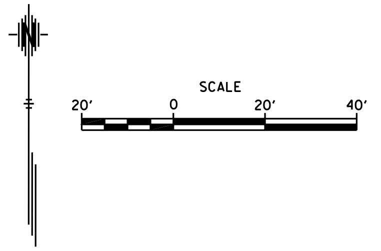
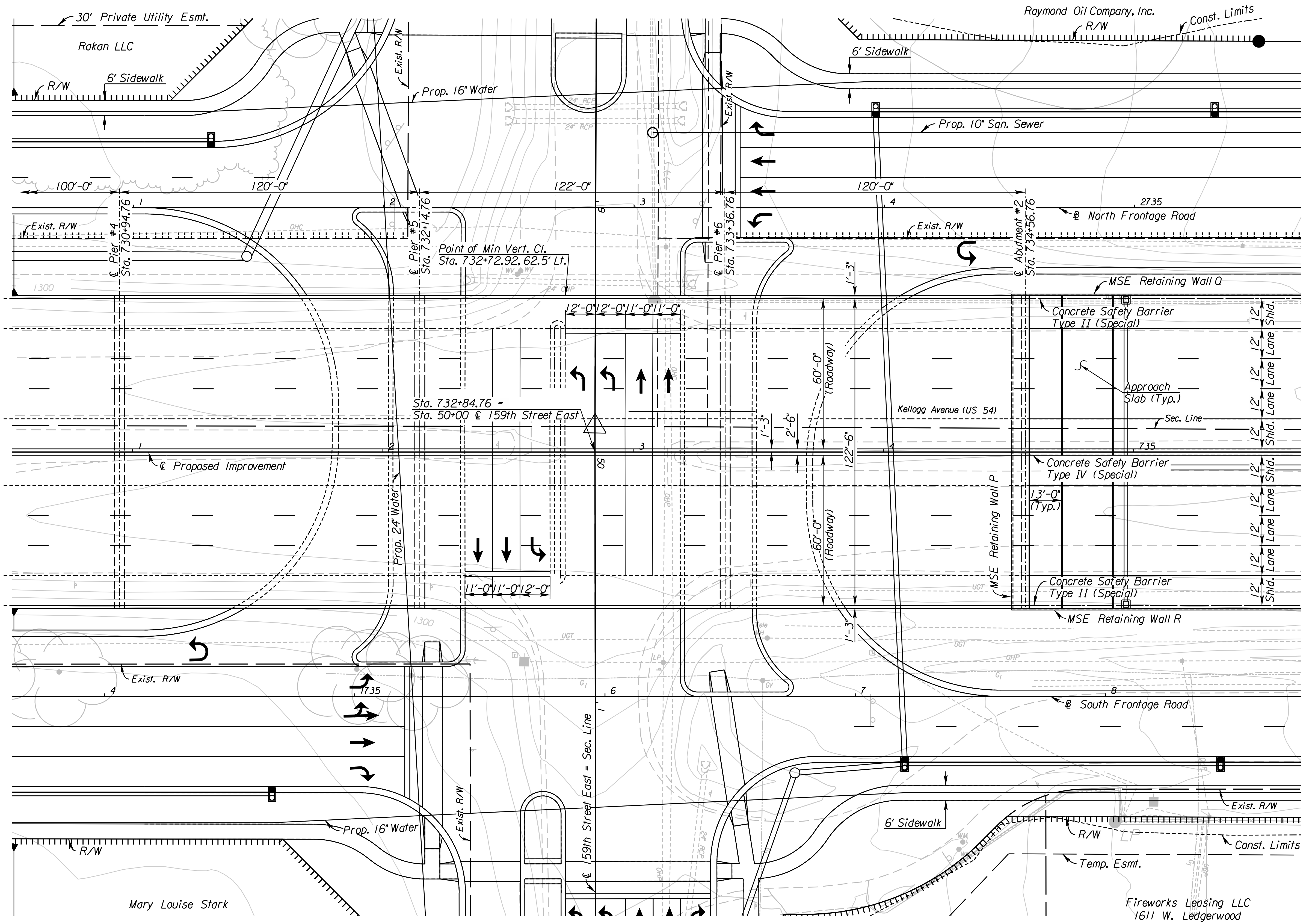
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	206	534





PLAN

CITY OF WICHITA
EAST KELLOGG OVER BROOKHAVEN CREEK
& 159TH STREET EAST
CONSTRUCTION LAYOUT II

BR. NO.
STA. 730+88.26

SURV.	PLOT	CADD	DES.	DR.	TR.	CKD.	APP.
-			-	-	-	-	-

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2/9/2011
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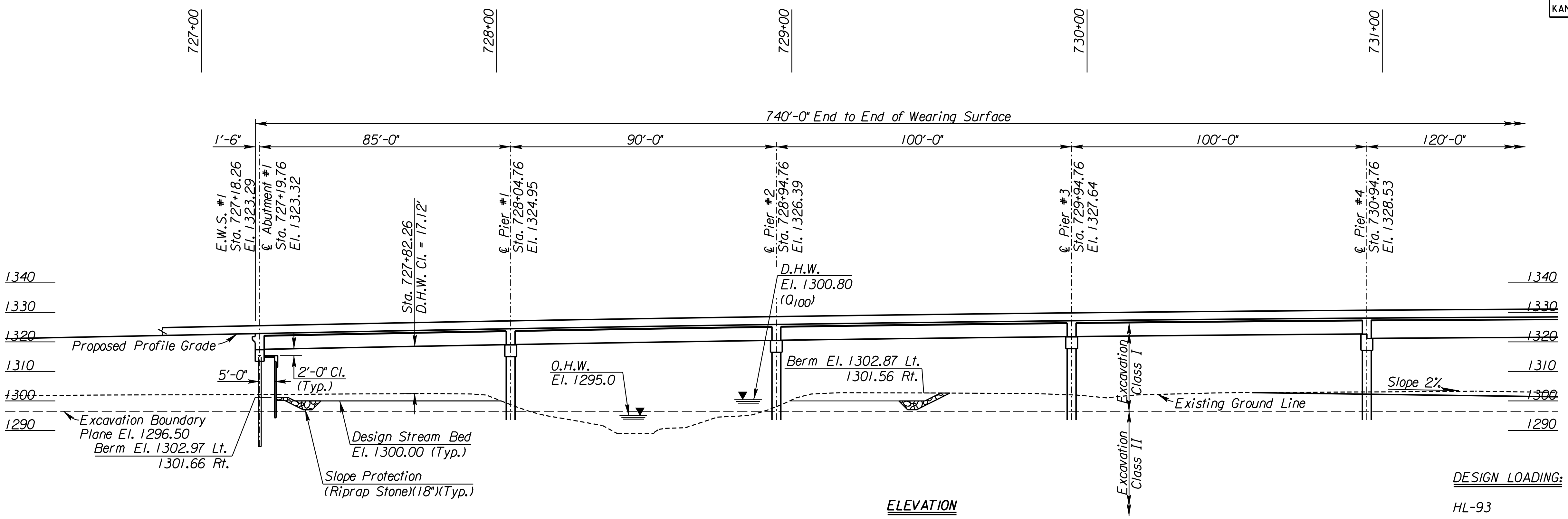
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	207	534

SCALE 20' 0 20' 40'



ELEVATION

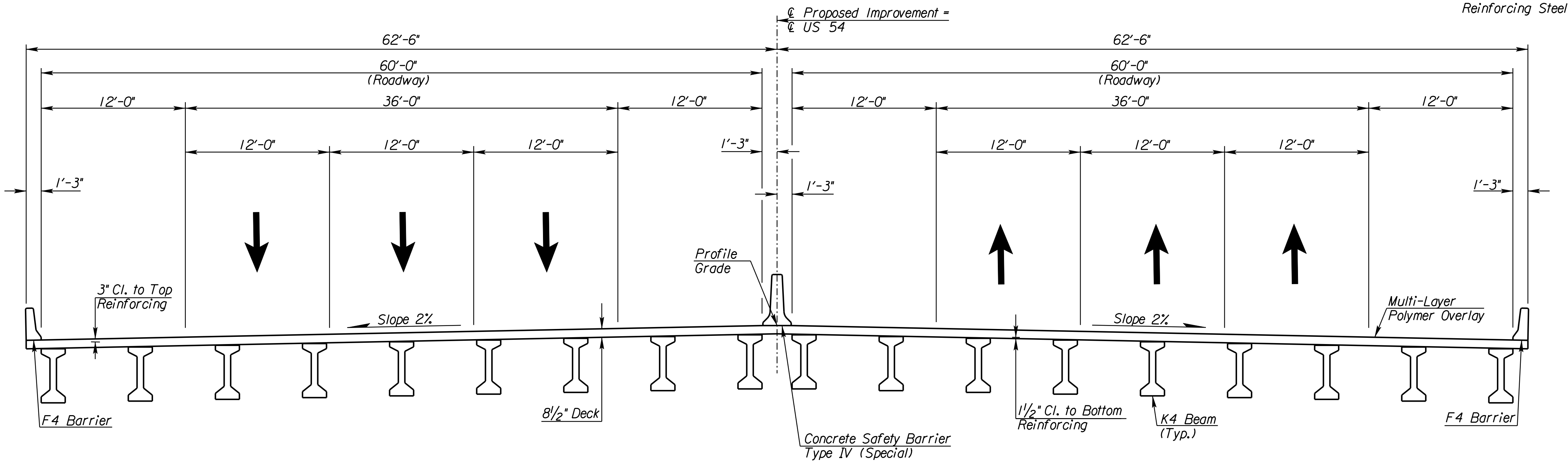
85'-90'-100'-100'-120'-122'-120'
Continuous Prestressed Concrete Beam Spans
Pile Bent Abutments & Column Bent Piers
2-60' Roadways, 0° Skew

DESIGN LOADING:

HL-93

UNIT STRESSES:

Concrete	f'c = 4,000 psi
Reinforcing Steel	fy = 60,000 psi



EAST KELLOGG OVER BROOKHAVEN CREEK & 159TH STREET
Proposed Section for Unit I

CITY OF WICHITA
EAST KELLOGG OVER BROOKHAVEN CREEK
& 159TH STRRET EAST
CONSTRUCTION LAYOUT III
BR. NO.
STA. 730+88.26

SURV. - PLOT CADD DES. - DR. - TR. - CKD. - APP. -

10:53:00 AM
2/9/2011
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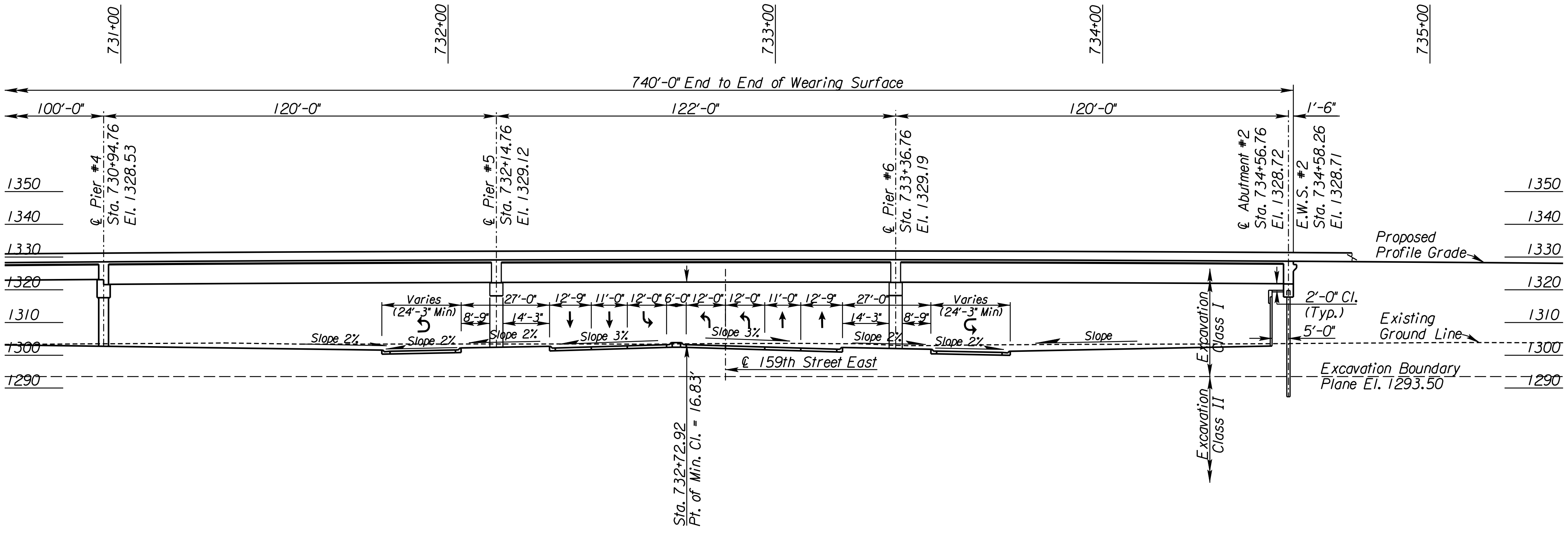
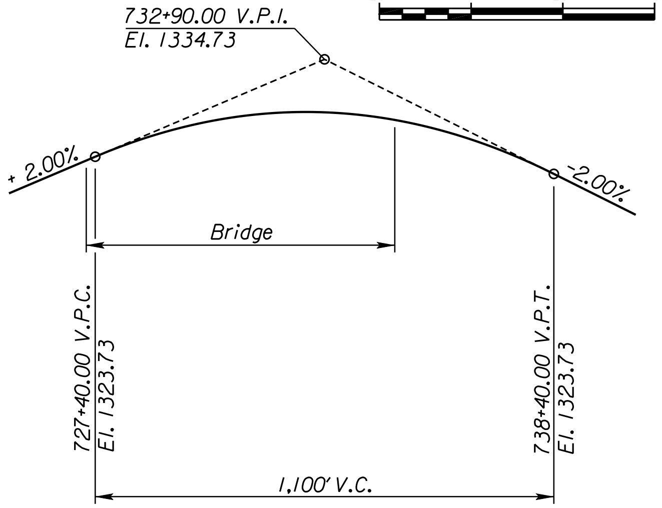
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	208	534

SCALE
20' 0 20' 40'



ELEVATION

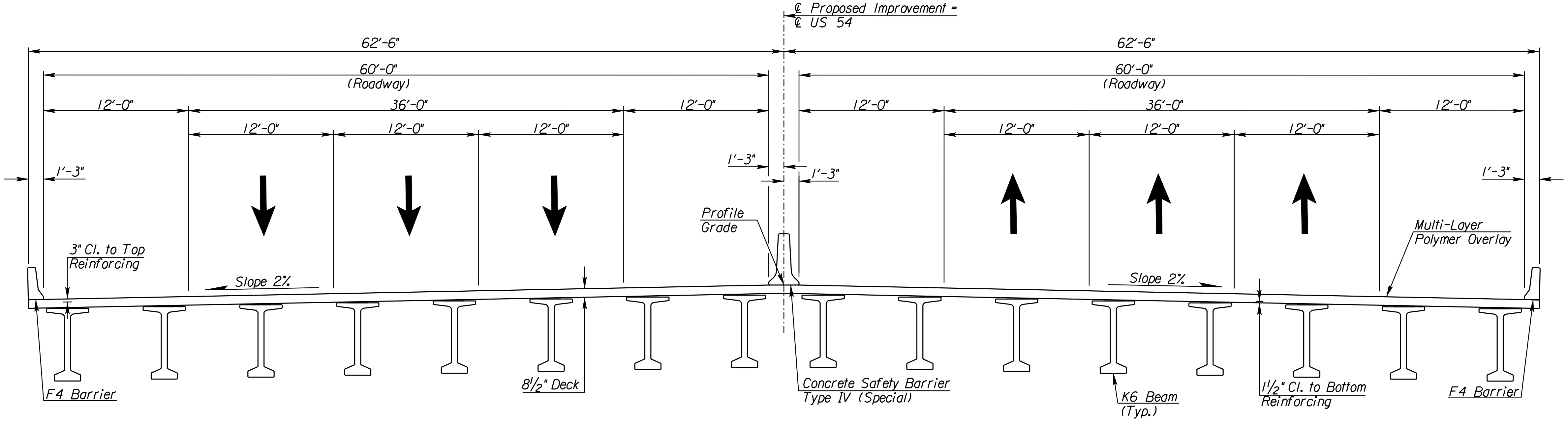
85'-90'-100'-100'-120'-122'-120'
Continuous Prestressed Concrete Beam Spans;
Pile Bent Abutments & Column Bent Piers.
2-60' Roadways. 0° Skew



EAST KELLOGG VERTICAL PROFILE

159TH STREET EAST VERTICAL PROFILE

See Intersection Details for
Vertical Profile under bridge.



EAST KELLOGG OVER BROOKHAVEN CREEK & 159TH ST.

Proposed Section for Unit II

SURV. - PLOT - CADD - DES. - DR. - TR. - CKD. - APP. -

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2/9/2011
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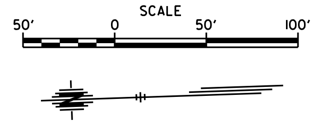
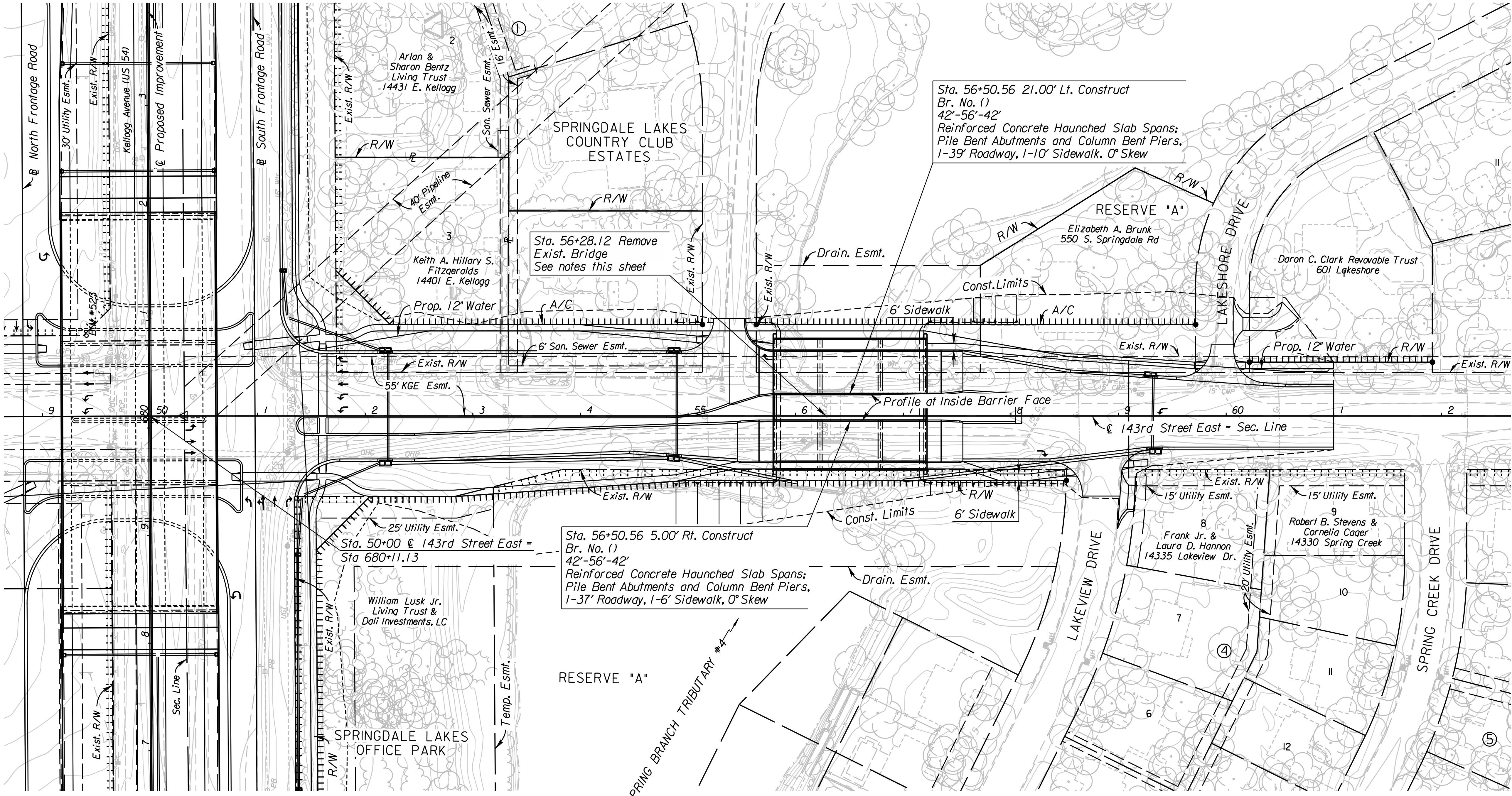
CITY OF WICHITA
EAST KELLOGG OVER BROOKHAVEN CREEK
& 159TH STREET EAST
CONSTRUCTION LAYOUT IV

BR. NO.
STA. 730+88.26

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	209	534





PLAN

REMOVAL OF EXISTING STRUCTURE

The Contractor shall remove the existing bridge (K.D.O.T. No. XXXXX) consisting of 3-9'x6' RCB.

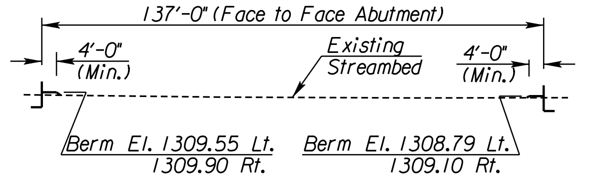
All material removed shall become the property of the Contractor and shall be removed from the project site by the Contractor. Remove all portions of the substructure (pilings, footings, etc.) at least 3' below the existing streambed.

All labor and work is included in the bid item "Removal of Existing Structures", Lump Sum.

UTILITIES

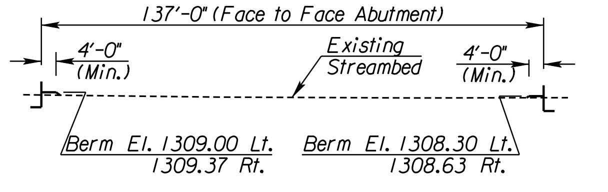
Cable	Cox Communications
Gas_1	Kansas Gas Service
Gas_2	Southern Star Pipeline
Gas_5	Coffeyville Resources
Power	Westar
Sanitary Sewer	Wichita Water & Sewer
Storm Water Sewer	Wichita Water & Sewer
Telephone	AT&T
Traffic Signal	City of Wichita
Water	Wichita Water & Sewer

⑤



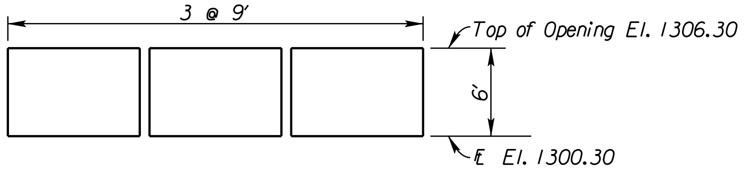
CHANNEL SECTION @ SB 143RD ST. SOUTH BRIDGE

(Looking Downstream) (Along ℄ 143rd St.)



CHANNEL SECTION @ NB 143RD ST. SOUTH BRIDGE

(Looking Downstream) (Along ℄ 143rd St.)



EXISTING R.C.B. WATERWAY OPENING

(Looking Downstream) (Normal to ℄ Channel)
Waterway Opening = 690 Sq. Ft.

See Sh. No's. 102-130 for SWS Plans.
See Sh. No's. 136-139 for San. Sewer Plans.
See Sh. No's. 140-162 for Water Plans.

CITY OF WICHITA
SB & NB 143RD STREET EAST OVER
SPRING BRANCH TRIBUTARY #4
CONTOUR MAP
BR. NO. STA. 56+50.56
BR. NO. STA. 56+50.56

SURV. - | PLOT | CADD | DES. | DR. - | TR. - | CKD. - | APP. -

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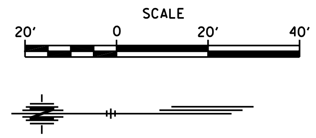
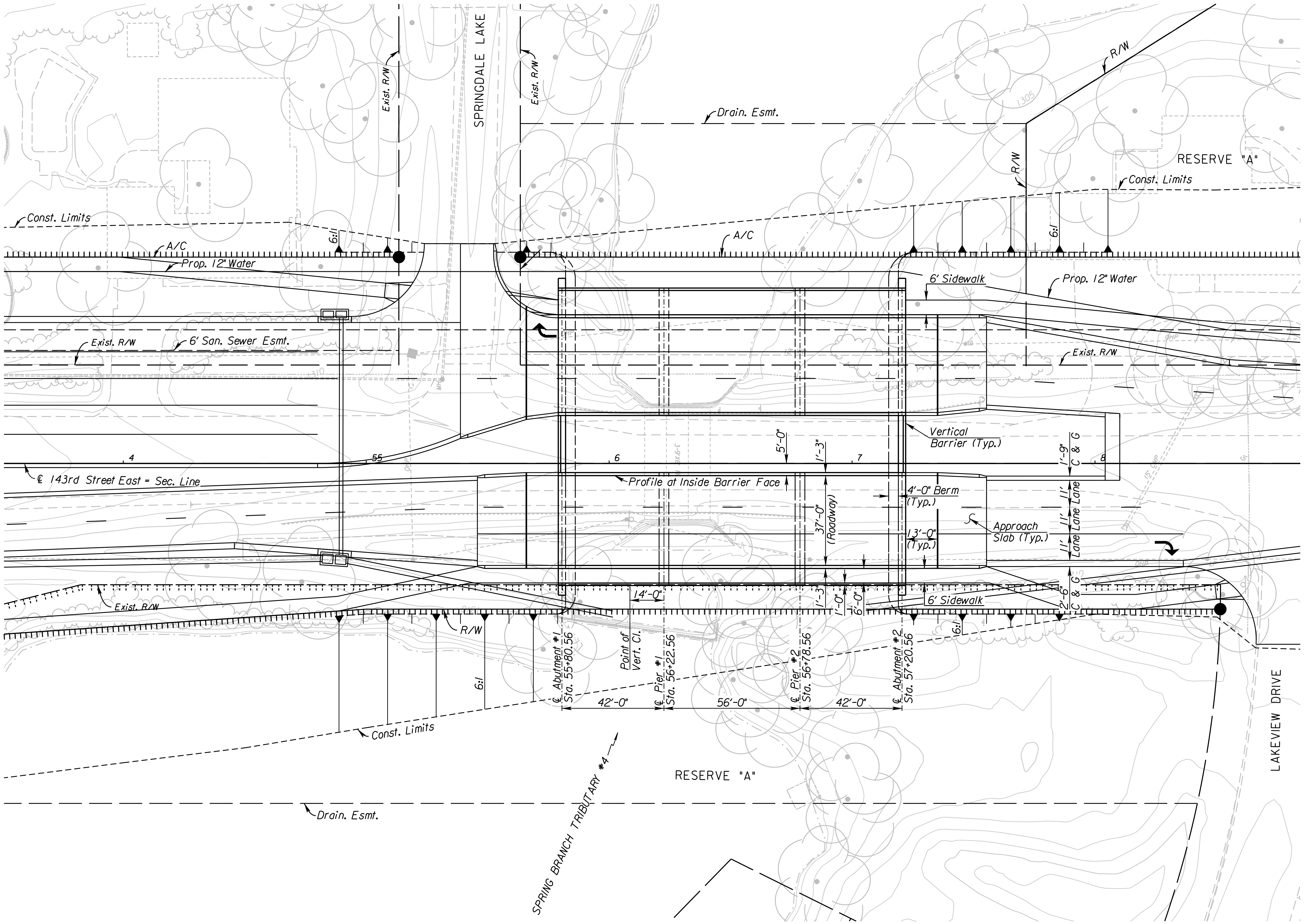
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	210	534





PLAN

DRAINAGE DATA

✱	Drainage Area	3.3	Sq. Mi.
	Design Frequency	50	Years
✱✱	Design Discharge (Q_{100})	3,060	cfs
	Design High Water Elevation	1308.18	Ft.
	Design Backwater	-2.63	Ft.
	Design Backwater Elevation	1308.78	Ft.
	Overtopping Elevation (Sta. N/A)	N/A	Ft.
	Overtopping Discharge	N/A	cfs
	Overtopping Frequency	>500	Years
✱✱	Discharge at Q_{100}	3,813	cfs
	Backwater at Q_{100}	-2.39	Ft.
	Backwater Elevation at Q_{100}	1308.71	Ft.
	Historic High Water Elevation	1306.30	Ft.
	Ordinary High Water Elevation	1306	Ft.
	Total Waterway Provided	568	Sq. Ft.
	Design Waterway Provided	418	Sq. Ft.
	100 Yr. Floodplain Elev. (FEMA)		
	Average Velocity at Q_{des}	5.9	fps
	Average Velocity at Q_{100}	6.8	fps

✱ Drainage Area for Spring Branch Tributary #4
✱✱ Discharge is controlled and
published by FEMA

CITY OF WICHITA
SB 143RD STREET EAST OVER
SPRING BRANCH TRIBUTARY #4
CONSTRUCTION LAYOUT I

BR. NO.
STA. 56+50.56

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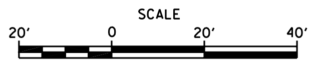
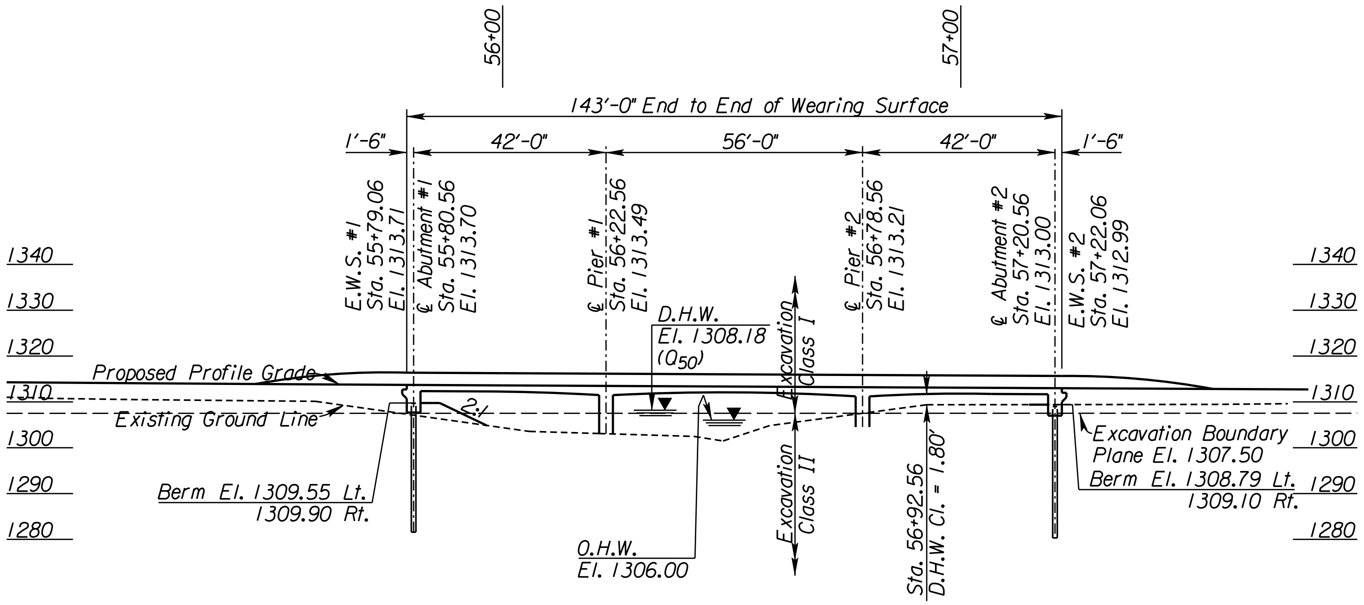
SURV.	-	PLOT	CADD	DES.	-	DR.	-	TR.	-	CKD.	-	APP.	-

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	211	534

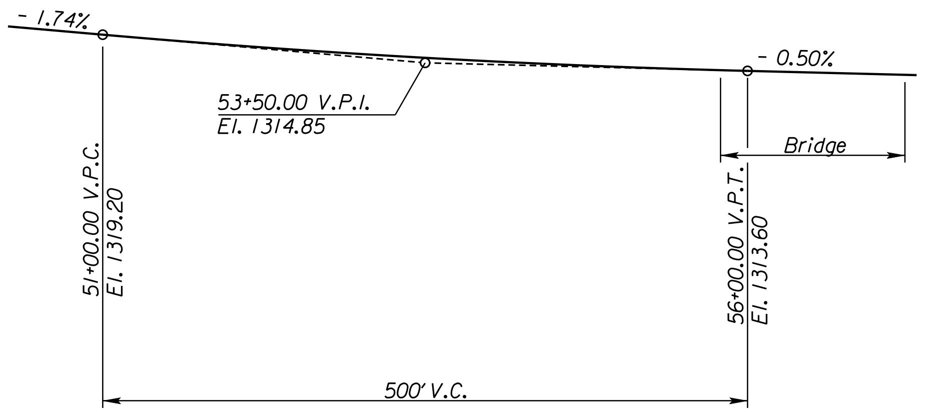




ELEVATION

42'-56'-42'
Reinforced Concrete Haunched Slab Spans;
Pile Bent Abutments & Column Bent Piers,
1-37' Roadway & 1-6' Sidewalk

NOTE: Span lengths & elevations along Inside Barrier Face for Profile and stationing along ℄ 143rd Street East.



VERTICAL PROFILE

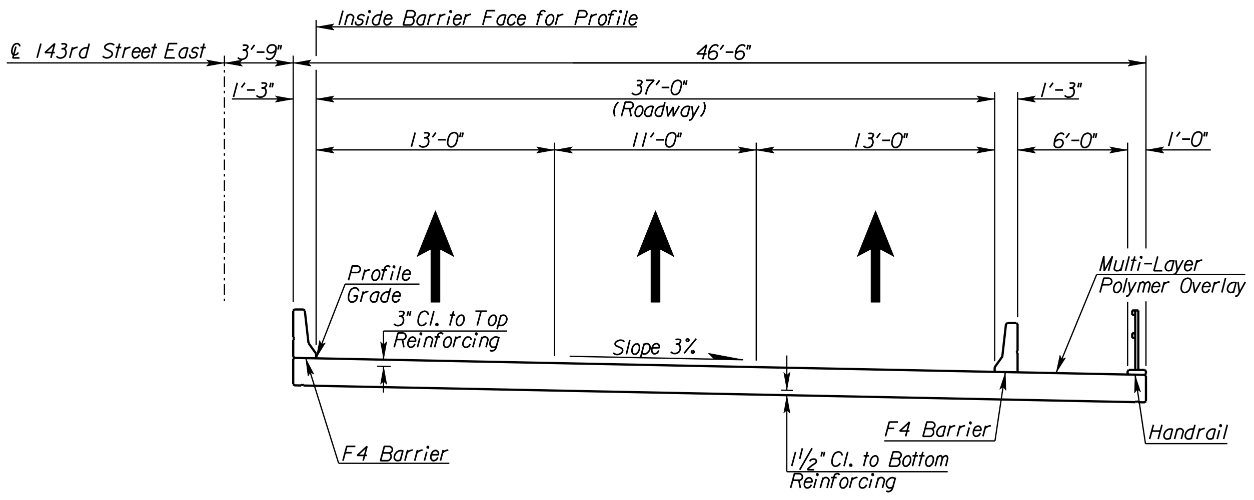
(Based on ℄ 143rd Street East profile, adjusted for cross-slopes to Inside Barrier Face for Profile.)

DESIGN LOADING:

HL-93

UNIT STRESSES:

Concrete	f'c	= 4,000 psi
Reinforcing Steel	fy	= 60,000 psi



SB 143RD STREET EAST OVER SPRING BRANCH TRIBUTARY #4

Proposed Section
(Looking Upstation)(Looking South)

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2/9/2011
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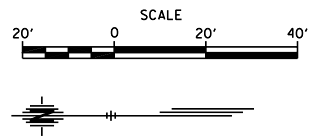
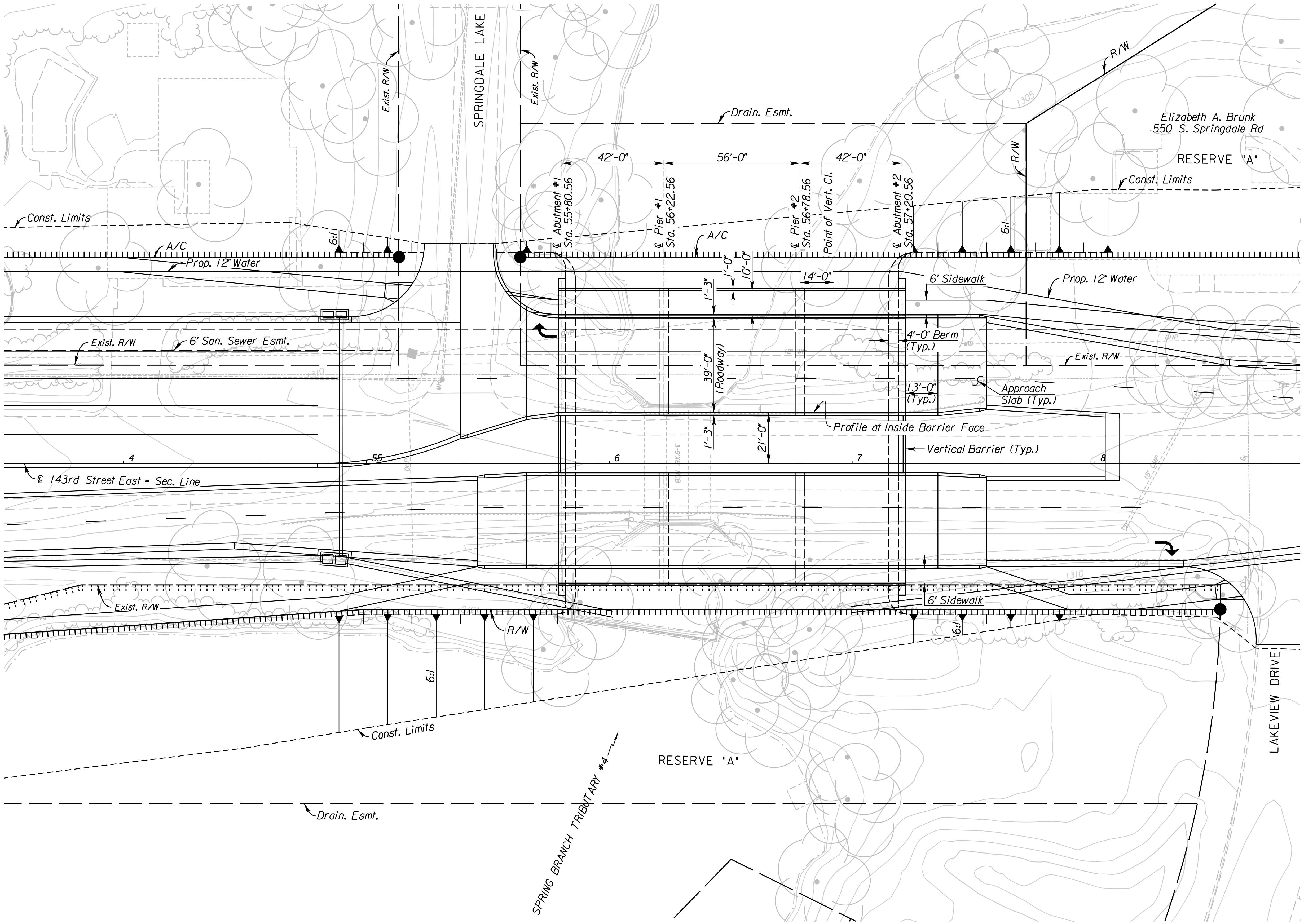
SURV. - PLOT - CADD - DES. - DR. - TR. - CKD. - APP. -

CITY OF WICHITA
SB 143RD STREET EAST OVER
SPRING BRANCH TRIBUTARY #4
CONSTRUCTION LAYOUT II
BR. NO.
STA. 56+50.56

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	212	534





PLAN

DRAINAGE DATA

✻Drainage Area	3.3	Sq. Mi.
Design Frequency	50	Years
✻✻Design Discharge (Q_{100})	3,060	cfs
Design High Water Elevation	1308.18	Ft.
Design Backwater	-2.63	Ft.
Design Backwater Elevation	1308.78	Ft.
Overtopping Elevation (Sta. N/A)	N/A	Ft.
Overtopping Discharge	N/A	cfs
Overtopping Frequency	>500	Years
✻✻Discharge at Q_{100}	3,813	cfs
Backwater at Q_{100}	-2.39	Ft.
Backwater Elevation at Q_{100}	1308.71	Ft.
Historic High Water Elevation	1306.30	Ft.
Ordinary High Water Elevation	1306	Ft.
Total Waterway Provided	568	Sq. Ft.
Design Waterway Provided	418	Sq. Ft.
100 Yr. Floodplain Elev. (FEMA)		
Average Velocity at Q_{des}	5.9	fps
Average Velocity at Q_{100}	6.8	fps

✻ Drainage Area for Spring Branch Tributary #4
✻✻ Discharge is controlled and published by FEMA

CITY OF WICHITA
NB 143RD STREET OVER
SPRING BRANCH TRIBUTARY #4
CONSTRUCTION LAYOUT I

BR. NO.
STA. 56+50.56

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2/9/2011
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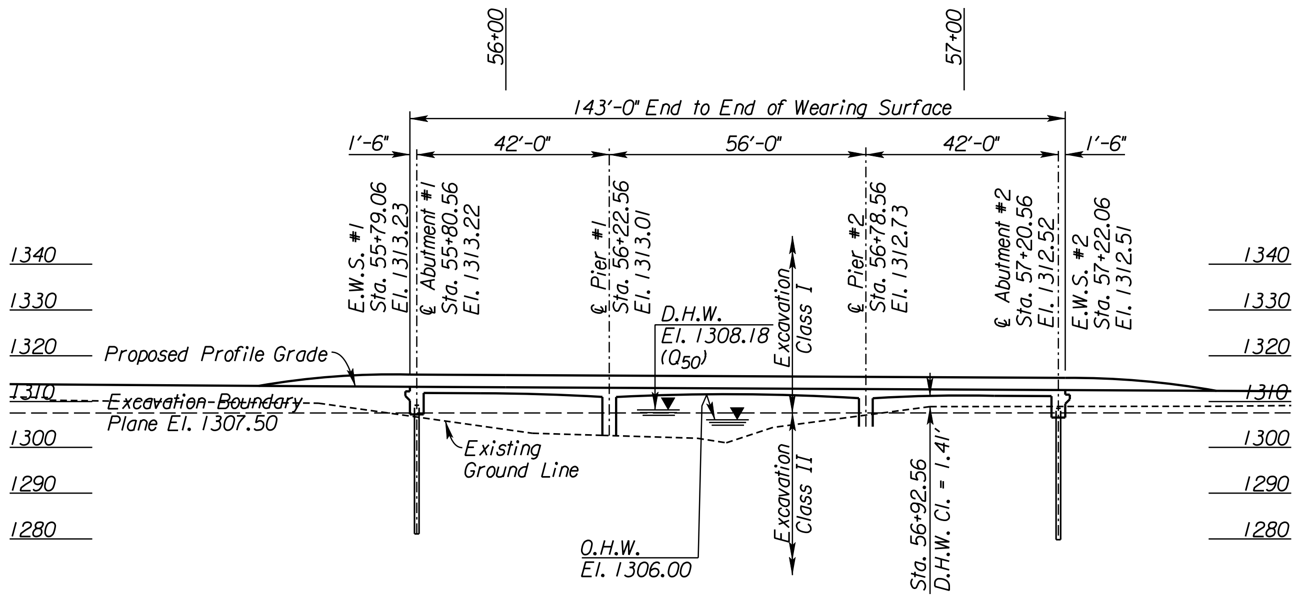
SURV.	-	PLOT	CADD	DES.	-	DR.	-	TR.	-	CKD.	-	APP.	-

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	213	534

SCALE
20' 0 20' 40'



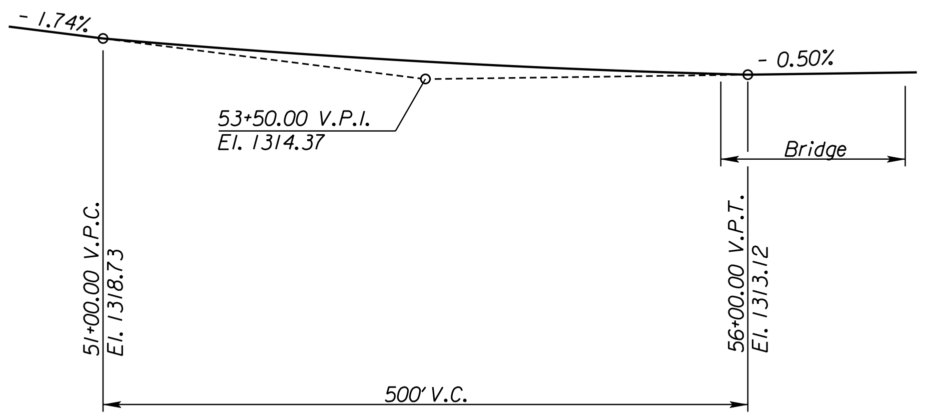
NOTE: Span lengths & elevations along Inside Barrier Face for Profile and stationing along ℄ 143rd Street East.

DESIGN LOADING:

HL-93

ELEVATION

42'-56'-42'
Reinforced Concrete Haunched Slab Spans;
Pile Bent Abutments & Column Bent Piers.
1-39' Roadway & 1-10' Sidewalk

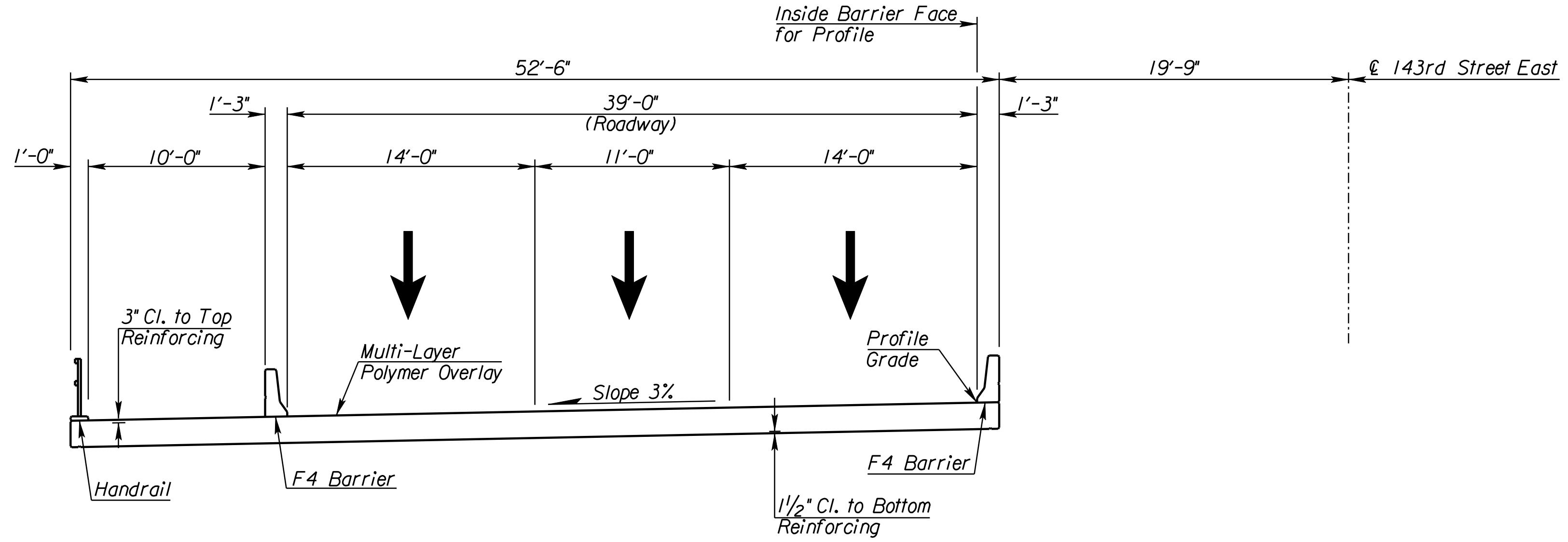


UNIT STRESSES:

Concrete f'c = 4,000 psi
Reinforcing Steel fy = 60,000 psi

VERTICAL PROFILE

(Based on ℄ 143rd Street East profile, adjusted for cross-slopes to Inside Barrier Face for Profile.)



NB 143RD STREET EAST OVER SPRING BRANCH TRIBUTARY #4

Proposed Section
(Looking Upstation)(Looking South)

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2/9/2011
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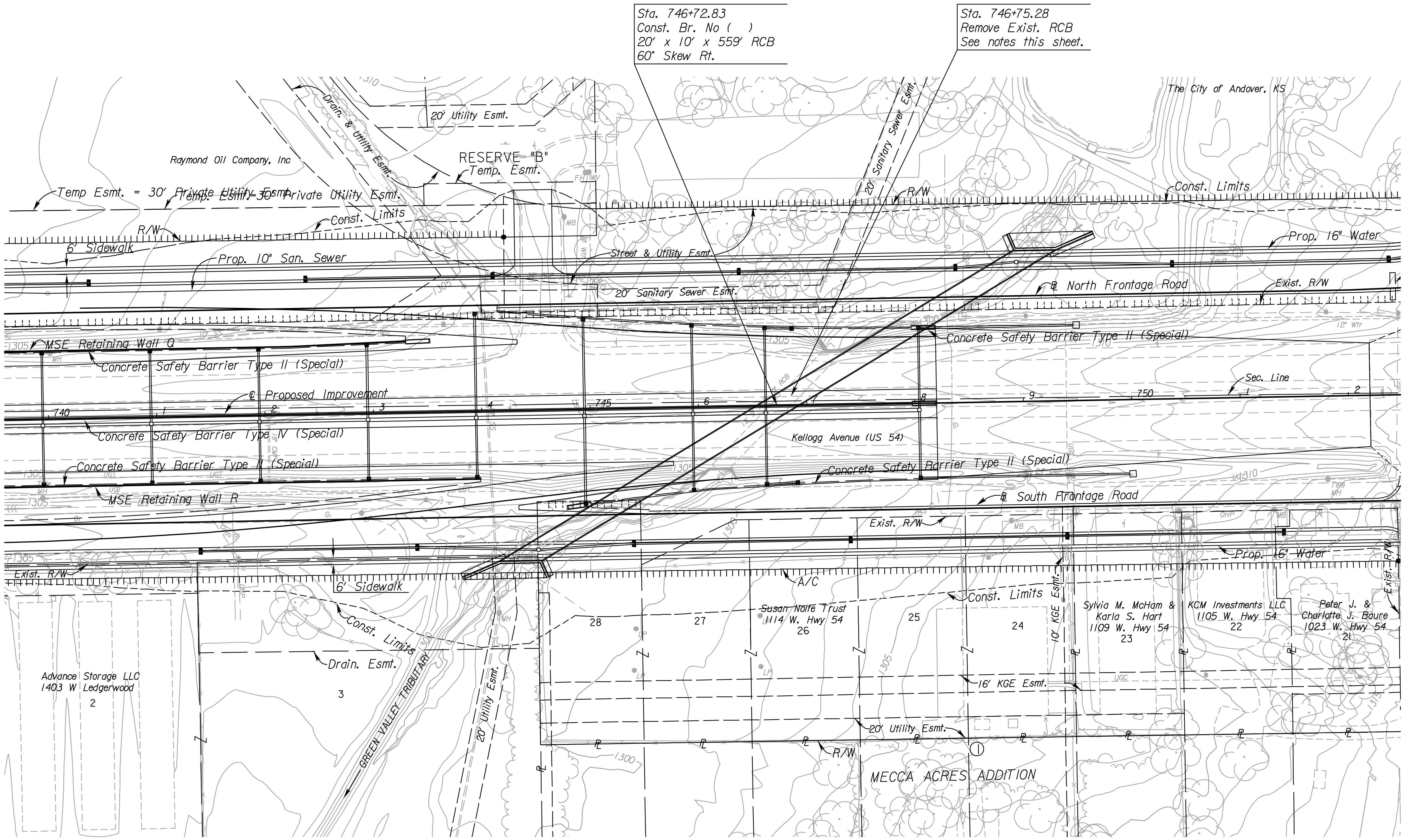
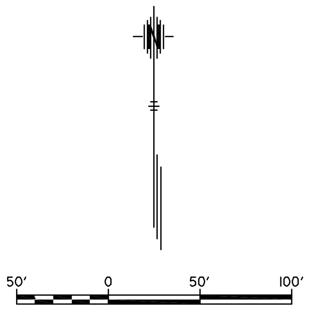
SURV.	-	PLOT	CADD	DES.	-	DR.	-	TR.	-	CKD.	-	APP.	-

CITY OF WICHITA
NB 143RD STREET EAST OVER
SPRING BRANCH TRIBUTARY #4
CONSTRUCTION LAYOUT II
BR. NO. STA. 56+50.56

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	214	534





REMOVAL OF EXISTING STRUCTURE

The Contractor shall remove the existing 14'x8' RCB.

All material removed shall become the property of the Contractor and shall be removed from the project site by the Contractor.

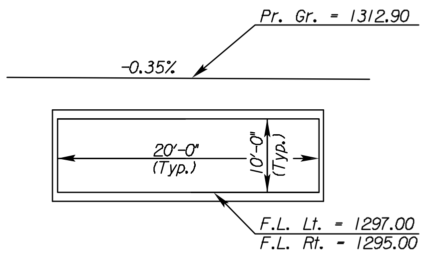
All labor and work is included in the bid item "Removal of Existing Structures", Lump Sum.

DRAINAGE DATA

Drainage Area	0.90	Sq. Mi.
Design Frequency	50	Years
Design Discharge	1475	cfs
Design Highwater Elevation	1307.34	Ft.
Q50 Discharge	1475	cfs
Overtopping Elevation (Sta. 747+12)	1310.41	Ft.
Overtopping Discharge	2375	cfs
Overtopping Frequency	>500	Years
Historic High Water Elevation	Unknown	Ft.

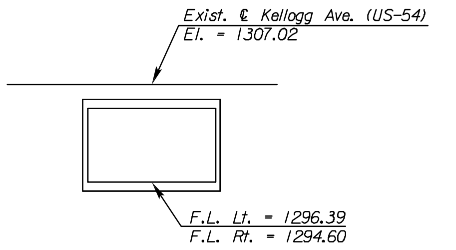
BR. NO. ()
20' X 10' REINFORCED CONCRETE BOX
FIELD CHECK RCB QUANTITIES
FOR INFORMATION ONLY

	QUANTITY	UNIT
Concrete (Grade 4.0)	2,094	C.Y.
Reinforcing Steel (Grade 60)	355,980	LBS
Class III Excavation	864	C.Y.
Foundation Stabilization	275	C.Y.
Granular Backfill (Wingwall)(Set Price)	1	C.Y.
Concrete for Seal Course (Set Price)	1	C.Y.
Removal of Existing Structures	1	L.S.



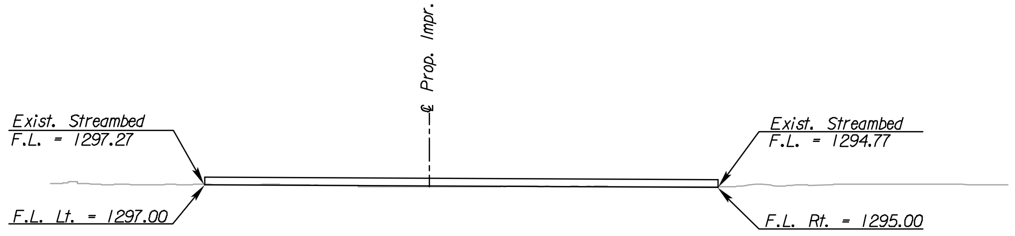
PROPOSED RCB WATERWAY OPENING

Waterway Opening = 200 Sq. Ft.



EXISTING RCB WATERWAY OPENING

Waterway Opening = 112 Sq. Ft.



EXISTING CHANNEL PROFILE

UTILITIES

Cable	Cox Communications
Gas	Kansas Gas Service
Power	Westar
Sanitary Sewer	Wichita Water & Sewer
Storm Water Sewer	Wichita Water & Sewer
Telephone	AT&T
Water	Wichita Water & Sewer

All stations and offsets are to back of curb unless otherwise shown.

See Sh. No's. 102-130 for SWS Plans.
See Sh. No's. 136-139 for San. Sewer Plans.
See Sh. No's. 140-162 for Water Plans.

CITY OF WICHITA
EAST KELLOGG OVER
GREEN VALLEY TRIBUTARY
CONTOUR MAP
BR.NO.
STA. 746+72.83

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2/9/2011
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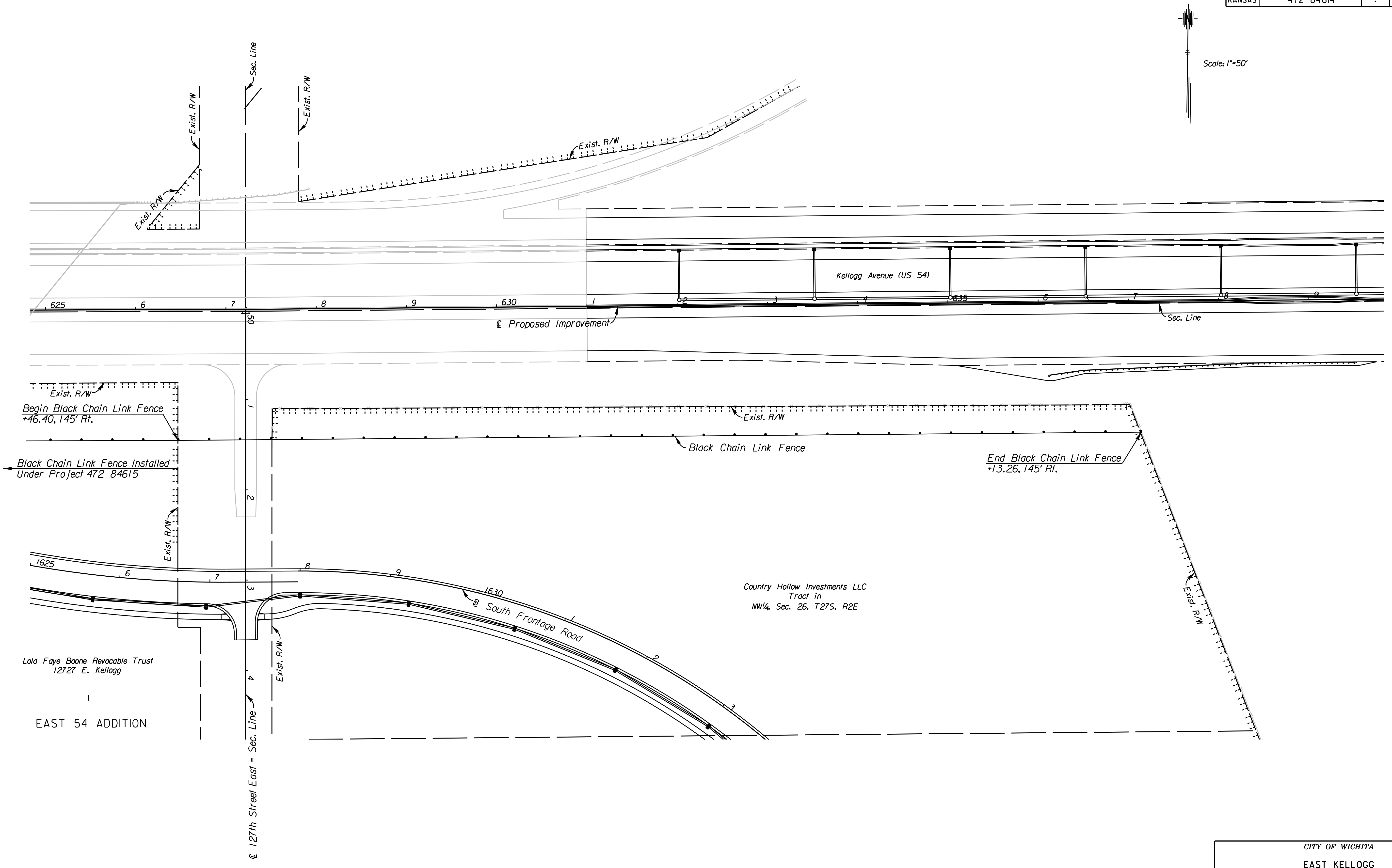
SURV. - PLOT CADD DES. - DR. - TR. - CKD. - APP. -

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	:	215	534



CITY OF WICHITA

EAST KELLOGG

FENCING PLAN

STA. 626+46.40 TO STA. 638+00

SURV.	PLOT	CADD	DES.	DR.	TR.	CKD.	APP.
-				-	-	-	-

10:54:04 AM
2/9/2011
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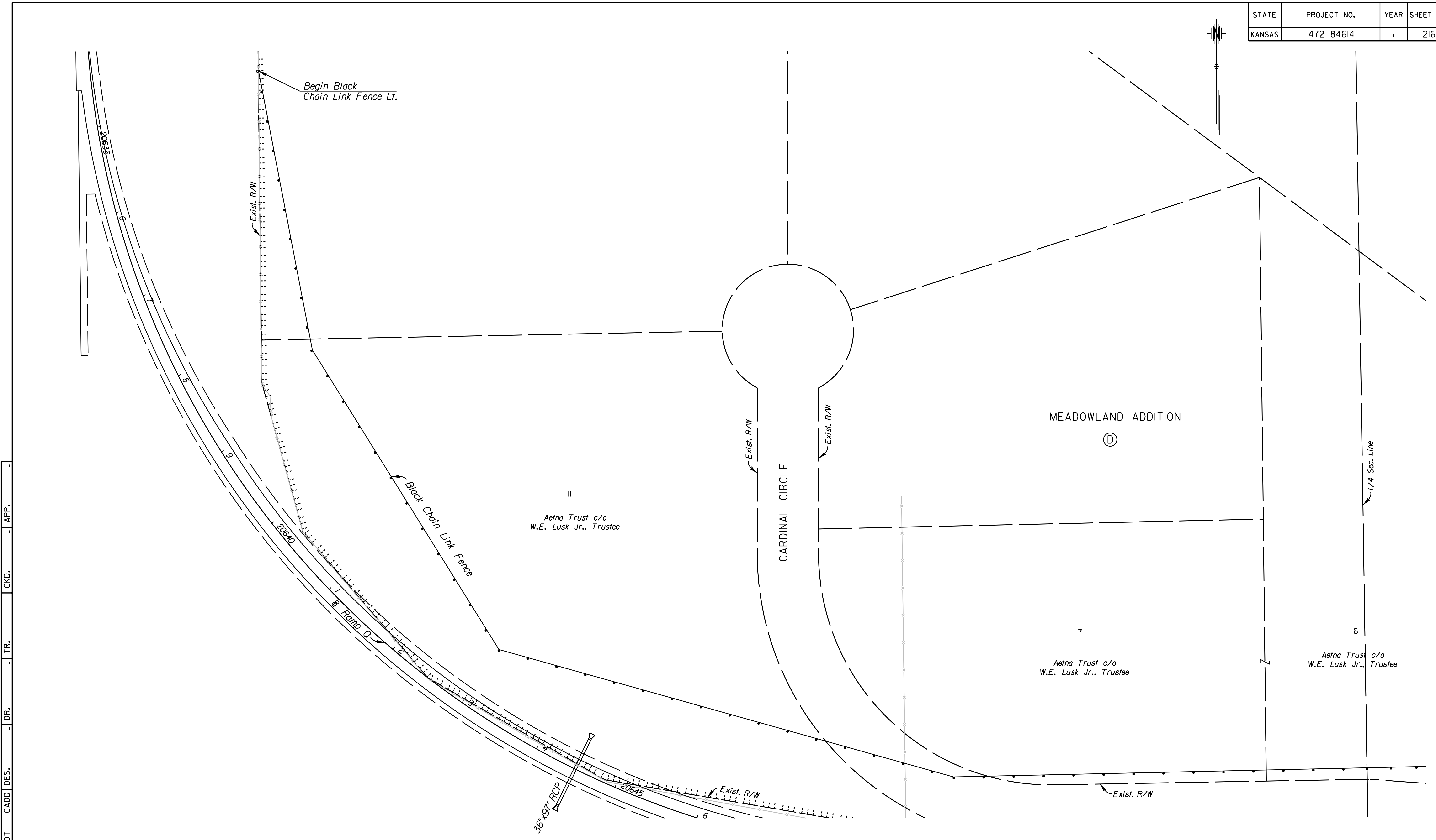
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	:	216	534



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SURV.	-	PLOT	CADD	DES.	-	DR.	-	TR.	-	CKD.	-	APP.	-

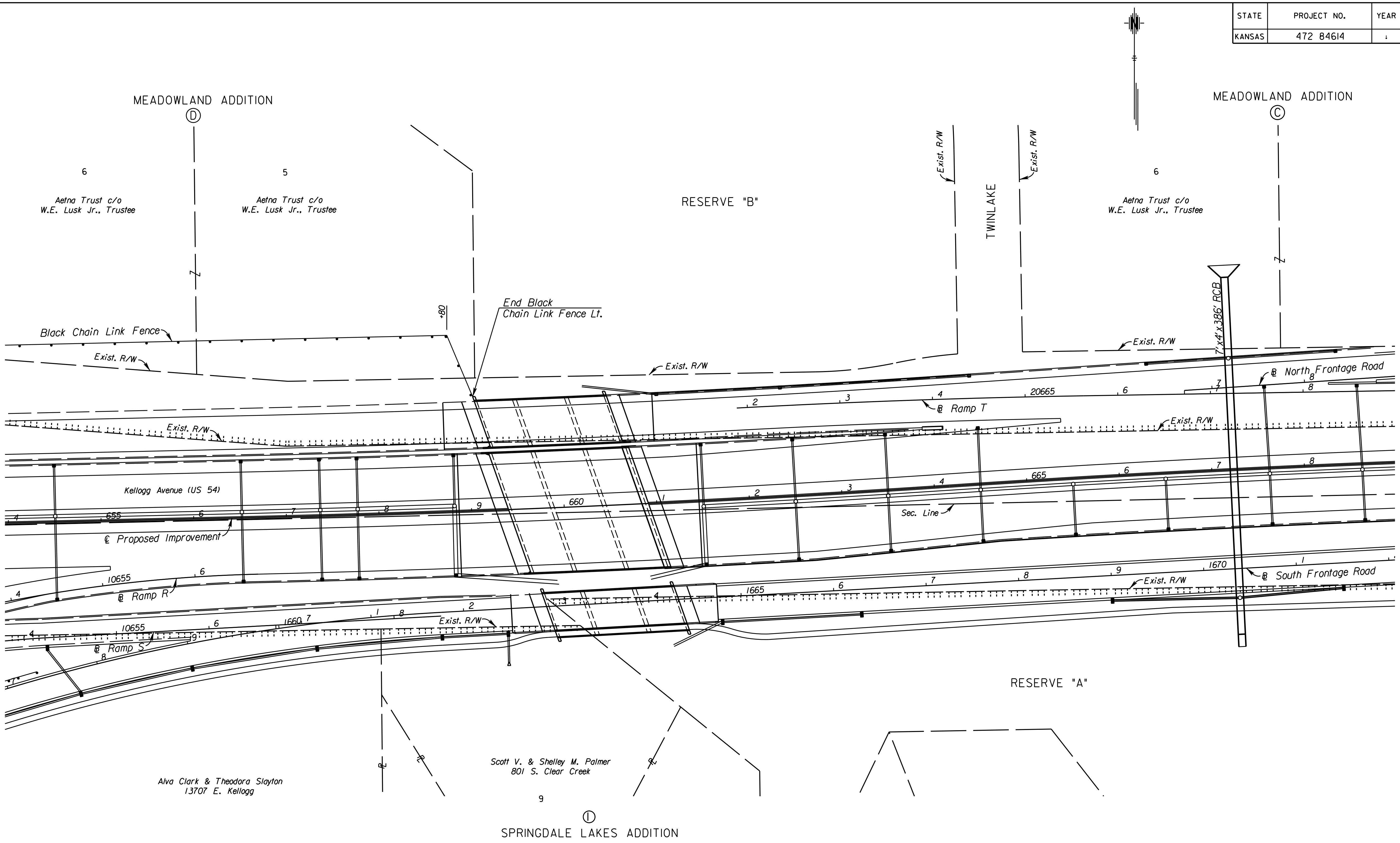
CITY OF WICHITA

RAMP O

FENCING PLAN

STA. 20635+00 TO STA. 20645+00

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	:	217	534



CITY OF WICHITA

EAST KELLOGG

FENCING PLAN

STA. 644+00 TO STA. 668+00

SURV.	-	PLOT	CADD	DES.	-	DR.	-	TR.	-	CKD.	-	APP.	-

10:54:09 AM
2/9/2011
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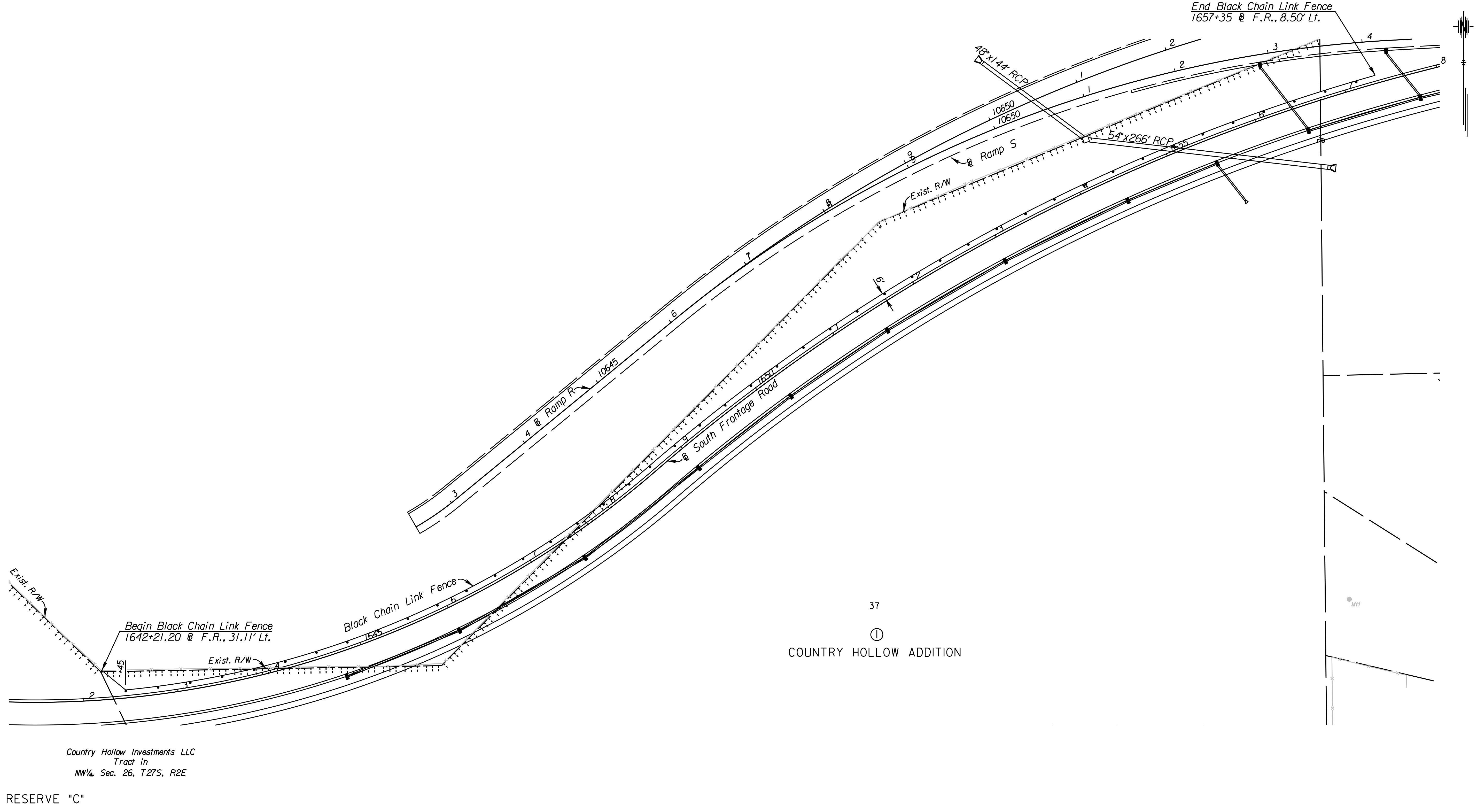
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	:	218	534



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SURV.	-	PLOT	CADD	DES.	-	DR.	-	TR.	-	CKD.	-	APP.	-

CITY OF WICHITA
SOUTH FRONTAGE ROAD
FENCING PLAN
STA. 1642+00 TO STA. 1658+00

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	:	219	534

GUARDRAIL - STEEL PLATE

STATION to STATION		SIDE	LIN. FT.	ALT. #1 SRT TERM.	ALT. #2 FLEAT TERM.	TYPE II TERM.✱	FLARE RATE	REMARKS
Mainline								
636+12.94	639+49.99	Rt.	293.75	1	1	1	30:1	
TOTALS			293.75	1	1	1		

✱ *Type II End Terminal included in pay length for bid item "Guardrail, Steel Plate"*

GUARDRAIL - REMOVAL OF STEEL PLATE

STATION to STATION		SIDE	LIN. FT.	REMARKS
Mainline				
637+70	639+59	Rt.	189.29	
637+93	639+78	Lt. & Rt.	380.25	
638+16	640+06	Lt.	190.80	
658+25	659+55	Rt.	131.20	
658+78	659+56	Rt.	160.13	
660+58	661+36	Rt.	160.42	
660+60	661+73	Lt.	113.10	
667+58	669+62	Rt.	203.24	
668+97	670+36	Lt.	145.21	
718+53	719+66	Rt.	114.16	
718+86	719+66	Lt. & Rt.	165.47	
720+89	721+68	Lt. & Rt.	163.47	
720+89	721+77	Lt.	89.26	
726+93	727+93	Rt.	101.48	
727+15	727+94	Lt. & Rt.	163.72	
729+06	729+85	Lt. & Rt.	163.66	
729+06	730+19	Lt.	113.57	
744+59	746+74	Rt.	220.16	
746+78	748+67	Lt.	189.94	
Ramp Q				
20634+33	20635+66	Lt. & Rt.	133.92	
TOTAL			3,292.45	

REMOVAL OF EXISTING STRUCTURES (FOR INFORMATION ONLY)

STATION	SIDE	REMARKS
Mainline		
635+98	Rt.	Ditch Inlet & 15" x 74′ CMP
645+98	Rt.	Ditch Inlet & 15" x 60′ CMP
653+12	Rt.	Ditch Inlet & 18" x 94′ CMP
658+38	Rt.	Ditch Inlet & 18" x 129′ CMP
660+07.05	℄	1-42′ Roadway & 1-52′ Roadway: Haunched Slab Bridges
665+98	Rt.	Ditch Inlet & 15" x 62′ CMP
669+30	℄	8′ x 4′ x 114′ RCB
673+02	Rt.	Ditch Inlet & 15" x 65′ CMP
687+50	℄	4′ x 4′ x 134′ RCB
687+50	Lt.	36" x 175′ RCP
693+34	Lt.	24" x 47′ CMP
693+35	Rt.	24" x 67′ CMP
693+67	℄	15" x 122′ CMP
703+09	Rt.	Ditch Inlet & 15" x 61′ CMP
705+92	Rt.	Ditch Inlet & 12" x 66′ CMP
706+46	Lt.	24" x 82′ RCP
706+56	Rt.	24" x 69′ CMP
712+01	Rt.	Ditch Inlet & 15" x 61′ CMP
718+52	Rt.	Ditch Inlet & 18" x 76′ CMP
720+27.50	℄	2 - 41′ Roadways: Haunched Slab Bridges
724+53	Rt.	Ditch Inlet & 18" x 61′ CMP
728+49.72	℄	2 - 41′ Roadway Bridges
730+03	Rt.	Ditch Inlet & 18" x 69′ CMP
739+09	Lt.	24" x 53′ CMP
742+04	Rt.	Ditch Inlet & 18" x 61′ CMP
744+58	Lt.	36" x 108′ RCP
746+75	℄	14′ x 8′ x 157′ RCB
749+22	Rt.	24" x 47′ CMP
Ramp P		
10643+72	BL	15" x 78′ RCP
Ramp Q		
20644+65	Rt.	24" x 150′ RCP
Ramp R		
10651+20	Lt.	2 - 15" x 77′ RCP
143rd Street		
56+28.12	℄	3 - 9′ x 6′ RCB

FENCE

STATION to STATION		SIDE	BLACK CHAIN LINK
			LIN. FT.
Mainline			
626+46.40	637+13.26	Rt.	1,067.7
648+99.86	659+05.67	Lt.	1,047.8
South Frontage Road			
1642+21.20	1657+35.00	Lt.	1,521.0
Ramp Q			
20634+58.86	20648+96.89	Lt.	1,267.6
TOTALS			4,904.1

CONCRETE SAFETY BARRIER

STATION to STATION		SIDE	LINEAR FEET			
			TYPE I	TYPE II (SPEC.)	TYPE II (SPEC.) (54")	TYPE IV (SPEC.)
Mainline						
631+00.00	638+00.00	℄				700.0
631+00.00	659+20.82	Lt.		2,820.8		
631+00.00	659+23.02	Lt.		2,823.0		
637+66.55	646+31.96	Lt.		865.5		
638+00.00	639+70.00	Lt.			170.0	
638+00.00	639+70.00	Rt.			170.0	
639+70.00	659+39.92	℄				1,969.9
653+72.33	659+61.34	Rt.		592.9		
660+50.97	668+80.32	Lt.		830.5		
660+66.20	663+91.12	Lt.		323.3		
660+72.56	663+91.06	Lt.		317.8		
660+91.05	678+27.63	℄				1,736.6
661+11.80	678+27.63	Rt.		1,713.7		
668+29.65	668+81.16	Lt.	51.8			
668+81.16	678+27.63	Lt.		948.4		
682+00.63	691+24.01	Rt.		923.4		
682+00.63	719+44.89	℄				3,744.3
682+00.63	690+92.58	Lt.		892.2		
690+87.72	712+33.00	Lt.		2,147.4		
692+61.04	714+77.21	Rt.		2,217.3		
713+95.39	719+67.19	Lt.		571.8		
715+63.98	719+22.60	Rt.		358.7		
720+94.79	727+18.26	Rt.		623.9		
721+17.08	727+18.26	℄				601.2
721+39.38	727+18.26	Lt.		578.4		
734+58.26	743+30.93	Lt.		872.7		
734+58.26	747+97.54	℄				1,339.3
734+58.26	743+97.94	Rt.		939.7		
744+15.84	747+97.54	Lt.		382.5		
744+99.47	748+20.00	Rt.		321.5		
Ramp S/South Frontage Road						
10653+61.47	1662+85.67	Lt.		600.7		
TOTALS			51.8	22,666.1	340.0	10,091.3

IMPACT ATTENUATOR

STATION	SIDE	HAZARD TYPE		NO. OF UNITS	REMARKS
		NARROW	WIDE		
Mainline					
646+31.96	Lt.	1			
663+91.06	Lt.	1			
690+92.58	Lt.	1			
715+63.98	Rt.	1			
743+30.93	Lt.	1			
747+97.54	Lt.	1			
747+97.54	℄	1			
Ramp R					
10653+68.46	Rt.		1		
Ramp V					
10692+61.54	Rt.	1			
Ramp W					
20712+30.79	Lt.	1			
Ramp Z					
10744+98.04	Rt.	1			
TOTALS		10	1		

CONCRETE (4")(PL)

STATION to STATION		SIDE	SQ. YDS.
Mainline			
631+00.00	663+30.37	Lt.	1,540.2
638+02.52	639+67.46	℄	62.4
TOTAL			1,602.6

RETAINING WALL (MSE)

WALL	STATION to STATION		SQUARE FEET	
			RETAINING WALL	CONC. MASONARY COATING
Mainline				
B	660+80.40, 62.54′ Lt.	661+05.43, 70.54′ Rt.	1,247	820
C	670+34.04, 84.29′ Lt.	678+34.13, 82.54′ Lt.	12,779	10,715
D	661+05.43, 70.54′ Rt.	678+34.13, 62.54′ Rt.	36,181	32,540
E	678+34.13, 82.54′ Lt.	678+34.13, 62.54′ Rt.	3,331	2,551
F	681+94.13, 82.54′ Lt.	681+94.13, 62.54′ Rt.	2,960	2,433
G	681+94.13, 82.54′ Lt.	690+92.54, 77.81′ Lt.	11,036	8,426
H	681+94.13, 62.54′ Rt.	691+24.01, 62.54′ Rt.	17,985	15,489
L	721+54.14, 62.54′ Lt.	727+24.76, 62.54′ Lt.	6,787	4,808
M	721+10.14, 62.54′ Rt.	727+24.76, 62.54′ Rt.	7,423	5,520
N	727+24.76, 62.54′ Lt.	727+24.76, 62.54′ Rt.	2,122	1,868
P	734+51.76, 62.54′ Lt.	734+51.76, 62.54′ Rt.	2,346	2,019
Q	734+51.76, 62.54′ Lt.	743+30.89, 65.60′ Lt.	13,555	11,283
R	734+51.76, 62.54′ Rt.	743+97.94, 62.54′ Rt.	15,624	13,352
TOTALS			133,376	111,824

RETAINING WALL (SOIL NAIL)

WALL	STATION to STATION		SQUARE FEET	
			RETAINING WALL	CONC. MASONARY COATING
Mainline				
A	637+66.55, 109.29′ Lt.	639+86.55, 109.29′ Lt.	4,085	2,838
TOTALS			4,085	2,838

RETAINING WALL (T-TYPE)

WALL	STATION to STATION		LIN. FT.
South Frontage Road			
J	1685+45.82, 41.50′ Rt.	1695+95.82, 41.50′ Rt.	1,050
TOTALS			1,050

CITY OF WICHITA

SUMMARY OF QUANTITIES

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2/10/2011
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SURV.	-	PLOT	CADD	DES.	-	DR.	-	TR.	-	CKD.	-	APP.	-

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	:	220	534

COLORED STAMPED CONCRETE (6")

STATION to STATION		SIDE	SQ. YDS.	COLOR & PATTERN
Zelta Road				
49+40.67	50+74.20	Lt.	37.0	
143rd Street				
49+29.21	50+50.64	Rt.	33.6	
159th Street				
49+49.34	50+50.89	Rt.	28.1	
TOTAL			98.7	

CONCRETE PAVEMENT (VALLEY GUTTER)

STATION	SIDE	SQ. YDS.		REMARKS
		8"	10"	
143rd Street				
40+43.06	Lt.		148.3	Cardinal Lane
40+44.91	Rt.		316.0	Cardinal Lane
44+47.45	Lt.		214.6	
45+84.22	Rt.		207.3	Lewis Street
55+38.79	Lt.		83.4	Edgewater Road
58+83.98	Rt.		216.8	Lakeview Drive
59+96.66	Lt.		142.3	Lakeshore Drive
Lakeview Drive				
51+14.61	℄	156.1		
159th Street				
41+43.02	Rt.		291.1	Willowbrook Street
58+17.82	Lt.		275.8	Wren Field Drive
TOTAL		156.1	1,895.6	

CONCRETE DRIVEWAY

STATION	SIDE	WIDTH FT.	RADIUS FT.	SQUARE FEET	
				6"	8"
South Frontage Road					
1627+39.66	Rt.	Var.	30	1,762.1	
1696+44.25	Rt.	35	30	1,409.0	
1708+48.10	Rt.	25	30		742.0
143rd Street					
59+14.90	Rt.	22.4	25	384.1	
60+15.68	Lt.	12	25	882.2	
Lakeview Drive					
50+80.99	Lt.	10.7	25	287.0	
159th Street					
56+12	Lt.	30	25		964.6
TOTALS				4,724.4	1,706.6

CONCRETE SIDEWALK (4")

STATION to STATION		SIDE	WIDTH FT.	AREA SQ. FT.
North Frontage Road				
2680+70.25	2681+89.26	Lt.	6	1,007.8
2681+89.26	2719+96.91	Lt.	6	22,848.6
2721+57.53	2727+30.61	Lt.	6	3,446.2
2729+68.61	2731+04.40	Lt.	6	820.8
2731+04.40	2731+93.58	Lt.	6	858.9
2733+28.39	2734+46.39	Lt.	6	790.6
2734+46.39	2757+93.75	Lt.	6	14,088.0
South Frontage Road				
1616+35.00	1620+43.74	Rt.	6	2,396.0
1622+88.12	1627+12.50	Rt.	6	2,594.2
1627+59.96	1662+99.52	Rt.	6	21,254.8
1664+40.38	1681+48.83	Rt.	6	10,244.8
1681+48.83	1682+67.83	Rt.	6	1,024.3
1683+88.08	1685+00.80	Rt.	6	1,086.4
1685+00.80	1722+15.47	Rt.	6	22,291.0
1723+75.95	1730+42.25	Rt.	6	4,009.4
1732+84.25	1734+16.02	Rt.	6	822.6
1734+16.02	1735+34.04	Rt.	6	766.7
1736+50.72	1737+58.04	Rt.	6	834.3
1737+58.04	1755+56.50	Rt.	6	10,790.3
143rd Street				
39+50.00	40+22.70	Lt.	6	436.9
39+50.01	40+02.72	Rt.	6	316.3
40+67.64	44+20.19	Lt.	6	2,128.5
40+87.11	45+54.99	Rt.	6	2,824.0
44+78.12	47+75.40	Lt.	6	1,783.7
46+13.45	47+62.22	Rt.	6	892.7
47+62.22	48+29.42	Rt.	6	460.2
52+07.64	55+79.06	Rt.	6	2,241.2
52+11.74	55+07.76	Lt.	6	1,774.5
57+22.06	58+49.75	Rt.	6	780.1
57+22.06	59+70.43	Lt.	6	1,488.1
59+14.25	59+27.36	Rt.	6	79.0
60+18.29	61+00.00	Lt.	6	490.3
159th Street				
40+55.23	41+01.81	Rt.	6	279.5
41+90.15	47+93.28	Rt.	6	3,656.0
51+75.99	55+97.00	Lt.	6	2,526.0
56+27.00	57+80.50	Lt.	6	921.1
TOTAL				145,053.8

AC PAVEMENT

STATION to STATION		SIDE	AC PAVEMENT 7" (5" BIT BASE)	
			WIDTH FT.	SQ. YDS.
Lakeview Dr.				
50+00.00	51+14.61	℄	Var.	300.5
TOTAL				300.5

*BRICK PAVERS (CONCRETE)

STATION to STATION		SIDE	SIZE	SQ. YDS.		PATTERN
				CROSSWALK	MEDIAN	
North Frontage Road						
2679+19.38	2679+47.48	Lt.		44.4		
2680+69.24	2680+77.24	Lt. & Rt.		50.5		
2731+88.75	2732+15.44	Lt.		50.0		
2733+27.39	2733+35.39	Lt. & Rt.		53.9		
South Frontage Road						
1682+60.83	1682+68.83	Lt. & Rt.		50.9		
1683+83.13	1683+94.78	Lt.		33.1		
1735+27.02	1735+35.02	Lt. & Rt.		53.2		
1736+42.30	1736+55.86	Lt.		35.2		
Zelta						
48+23.73	48+31.73	Lt. & Rt.		21.3		
48+46.73	48+65.99	Lt.			28.5	
143rd Street						
48+16.66	48+24.66	Lt. & Rt.		84.0		
48+25.66	48+42.64	Lt. & Rt.			41.6	
48+84.21	50+84.30	Rt.			609.8	
48+96.03	50+95.38	Lt.			611.5	
51+37.40	51+55.48	Rt.			26.6	
51+56.48	51+64.48	Lt. & Rt.		74.1		
159th Street						
48+25.66	48+33.66	Lt. & Rt.		76.3		
48+34.66	48+62.66	Lt. & Rt.			74.1	
49+04.34	50+83.74	Rt.			453.0	
49+15.90	50+95.90	Lt.			453.3	
51+37.33	51+62.48	Rt.			38.0	
51+63.48	51+71.48	Lt. & Rt.		71.9		
TOTAL				698.8	2,336.4	

* Includes Sand Base

WHEELCHAIR RAMP W/ DETECTABLE PANELS

STATION	SIDE	WIDTH FT.	TYPE I EACH	WIDE MEDIAN EACH
North Frontage Road				
2679+18.44	Lt.	6	1	
2679+47.74	Rt.	6	1	
2680+73.25	Lt.	6	1	
2680+73.24	Rt.	6	1	
2731+87.97	Lt.	6	1	
2732+14.97	Rt.	6	1	
2733+31.39	Rt.	6	1	
2733+31.39	Lt.	6	1	
2757+93.75	Lt.	6	1	
South Frontage Road				
1627+12.50	Rt.	6	1	
1627+59.96	Rt.	6	1	
1682+64.83	Rt.	6	1	
1682+64.83	Lt.	6	1	
1683+86.07	Lt.	6	1	
1683+92.44	Rt.	6	1	
1735+31.02	Rt.	6	1	
1735+31.02	Lt.	6	1	
1736+44.78	Lt.	6	1	
1736+54.30	Rt.	6	1	
1755+56.44	Rt.	6	1	
143rd Street				
40+02.72	Rt.	6	1	
40+22.70	Lt.	6	1	
40+67.64	Lt.	6	1	
40+87.11	Rt.	6	1	
44+20.19	Lt.	6	1	
44+78.12	Lt.	6	1	
45+54.99	Rt.	6	1	
46+13.45	Rt.	6	1	
48+20.66	Rt.	6	1	
48+20.66	℄	6		1
48+20.66	Lt.	6	1	
51+60.48	Rt.	6	1	
51+60.48	℄	6		1
51+60.48	Lt.	6	1	
55+07.76	Lt.	6	1	
55+79.06	Lt.	6	1	
58+49.75	Rt.	6	1	
59+14.25	Rt.	6	1	
59+70.43	Lt.	6	1	
60+18.29	Lt.	6	1	
159th Street				
41+01.81	Rt.	6	1	
41+90.15	Rt.	6	1	
48+29.66	Rt.	6	1	
48+29.66	℄	6		1
48+29.66	Lt.	6	1	
51+67.48	Rt.	6	1	
51+67.48	℄	6		1
51+67.48	Lt.	6	1	
57+80.50	Lt.	6	1	
58+55.14	Lt.	6	1	
TOTAL			46	4

COMBINED CURB & GUTTER (AE)

STATION to STATION		SIDE	LINEAR FEET				MEDIAN NOSE EACH	REMARKS
			TYPE I	TYPE II	TYPE III (8")	TYPE III (SPEC.)		
North Frontage Road								
2668+77.47	2678+37.29	Lt.	961.2					
2681+89.26	2719+46.66	Lt.	3,760.9					
2730+02.20	2731+04.40	Lt.	102.2					
2721+91.35	2726+97.03	Lt.	505.7					
2734+46.39	2744+13.38	Lt.	967.5					
2744+86.67	2758+08.04	Lt.	1,333.2					
2668+77.47	2678+37.29	Rt.	959.7					
2681+89.26	2687+42.27	Rt.	553.5					
2690+58.49	2712+29.29	Rt.	2,170.8					
2719+33.55	2719+49.66	Rt.	16.1					
2730+02.20	2731+04.40	Rt.	102.2					
2721+91.35	2726+97.03	Rt.	505.7					
2734+46.39	2740+81.55	Rt.	635.6					
2743+97.81	2758+08.04	Rt.	1,421.9					
South Frontage Road								
1616+85.55	1620+09.28	Lt.	327.0					
1623+46.55	1658+90.93	Lt.	3,556.6					
1661+31.75	1662+51.54	Lt.	120.1					
1664+74.15	1681+48.83	Lt.	1,675.7					
1685+00.80	1689+70.93	Lt.	470.1					
1696+54.57	1718+61.31	Lt.	2,206.7					
1724+27.57	1730+08.67	Lt.	581.5					
1733+13.83	1734+16.02	Lt.	102.2					
1737+58.03	1742+62.31	Lt.	504.3					
1749+26.50	1755+69.43	Lt.	642.0					
1616+35.00	1620+09.28	Rt.	368.3					
1623+46.55	1627+26.71	Rt.	403.6					
1627+52.61	1662+51.54	Rt.	3,529.4					
1664+74.15	1681+48.83	Rt.	1,674.2					
1685+00.80	1721+81.51	Rt.	3,680.7					
1724+27.57	1730+08.67	Rt.	581.5					
1733+13.83	1734+16.02	Rt.	102.2					
1737+58.04	1755+69.43	Rt.	1,822.0					
Zelta								
43+97.42	48+24.73	Lt. & Rt.			430.5		1	
48+30.73	50+75.95	Lt.			64.4	273.1		Intersection
143rd Street								
39+50.00	39+79.40	Rt.	29.4					
39+50.00	40+07.44	Lt.	57.5					
41+10.42	45+33.72	Rt.	427.3					
40+84.13	43+99.66	Lt.	315.9					
46+34.72	47+81.08	Rt.	146.4					
45+00.31	47+81.08	Lt.	281.5					
42+20.00	47+81.08	Rt.			561.8			
42+20.00	47+81.08	Lt.			561.7			
42+14.00	42+20.00						1	
47+81.08	51+76.53	℄	1,232.7		1,149.5	248.9		Intersection
51+76.53	55+45.77	Rt.	369.6					
51+76.53	55+45.77	Rt.			369.4			
51+76.53	55+38.79	Lt.			363.2			
51+76.53	54+93.95	Lt.	317.4					
57+55.35	58+36.38	Rt.	81.0					
57+55.35	58+10.22	Rt.			54.9			
57+55.35	58+10.22	Lt.			55.0			
58+10.22							1	
57+55.35	59+54.02	Lt.	200.4					
59+27.36	61+00.00	Rt.	172.6					
60+35.02	61+00.00	Lt.	65.0					
Lakeview Drive								
50+54.48	51+14.61	Lt.	55.9					
50+54.48	51+14.61	Rt.	64.4					
159th Street								
40+55.23	40+84.41	Rt.	29.1					
40+55.23	48+01.39	Lt.	746.2					
42+05.06	48+01.39	Rt.	600.0					
43+00.00	48+01.39	Rt.			502.2			
43+00.00	48+01.39	Lt.			502.7			
42+94.00	43+00.00						1	
48+01.39	51+75.99	℄	1,174.5		1,124.2	209.2		Intersection
51+75.99	62+00	Rt.	1,025.3					
51+75.99	57+62.88	Rt.			589.8			
51+75.99	57+62.88	Lt.			590.2			
51+75.99	57+57.45	Lt.	582.2					
57+62.88							1	
58+78.19	62+00	Lt.	322.6					
Ramp S								
10651+50.00	10655+79.24	Rt.		427.1				
TOTALS			44,641.1	427.1	6,919.5	731.2	5	

CITY OF WICHITA

SUMMARY OF QUANTITIES

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2/10/2011
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SURV.	-	PLOT	CADD	DES.	-	DR.	-	TR.	CKD.	-	APP.	-

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	:	221	534

CONCRETE PAVEMENT

STATION to STATION		SIDE	CONCRETE PVMT. 12" (AE) (BR. APP.)		CONC. PVMT. 10" UNIFORM (AE)(NRDJ)				CONC. PVMT. 10" VARIABLE (AE)(NRDJ)				4" CEMENT TREATED BASE		10" GEOGRID REINFORCED BASE		6" SUBGRADE							PAVEMENT EDGE WEDGE (ROCK)	REMARKS
					MAIN LANES		INSIDE SHOULDER		INSIDE SHOULDER		OUTSIDE SHOULDER							LIME TREATED			FLY ASH TREATED				
			WIDTH FT.	SQ. YDS.	WIDTH FT.	SQ. YDS.	WIDTH FT.	SQ. YDS.	WIDTH FT.	SQ. YDS.	WIDTH FT.	SQ. YDS.	WIDTH FT.	SQ. YDS.	WIDTH FT.	SQ. YDS.	WIDTH FT.	MANIPULATION SQ. YDS.	† LIME TONS	Ø WATER MGAL	MANIPULATION SQ. YDS.	◑ FLY ASH TONS	Ø WATER MGAL	TONS	
Mainline																									
631+00.00	631+49.96	Rt.			36	199.8	14.5	80.5			12	66.6	64.5	358.0			64.5	358.0	4.4	6.4				7.6	
631+00.00	637+99.99	Lt.			36	2,800.0	12	933.3			13.25	1,030.5	63.25	4,919.4			63.25	4,919.4	60.9	87.6					
631+00.00	638+19.99	Lt.			24	1,920.0	7.25	580.0			11.25	900.0	46.5	3,719.9			46.5	3,719.9	46.0	66.2					CD Road
631+49.96	635+09.96	Rt.			Var.	1,680.0	14.5	580.0			Var.	346.8	Var.	2,686.8			Var.	2,686.8	33.2	47.8				57.6	
635+09.96	637+99.99	Rt.			48	1,546.8	14.5	467.3			8	257.8	72.5	2,336.4			72.5	2,336.4	28.9	41.6				81.7	
637+99.99	639+69.99	Rt.			48	906.7	Var.	219.5			8	151.1	Var.	1,349.0			Var.	1,349.0	16.7	24.0				43.2	
637+99.99	639+69.99	Lt.			36	680.0	Var.	218.7			Var.	234.3	Var.	1,194.5			Var.	1,194.5	14.8	21.3					
638+19.99	639+39.99	Lt.			24	320.0	Var.	88.9			11.25	150.0	Var.	612.2			Var.	612.2	7.6	10.9					CD Road
639+39.99	642+72.26	Lt.			24	886.1	7.25	267.7			11.25	415.4	46.5	1,716.8			46.5	1,716.8	21.2	30.6					CD Road
639+69.99	640+09.95	Rt.			48	213.1	14.5	64.4			8	35.5	72.5	321.9			72.5	321.9	4.0	5.7				7.9	
639+69.99	658+86.49	Lt.			36	7,664.3	12	2,555.2			13.25	2,820.4	63.25	13,465.6			63.25	13,465.6	166.6	239.8					
640+09.95	646+22.41	Rt.			Var.	2,865.8	14.5	986.7			Var.	377.0	Var.	4,311.9			Var.	4,311.9	53.4	76.8				59.4	
642+72.26	648+88.65	Lt.			Var.	1,989.2	7.25	496.5			Var.	406.2	Var.	3,109.2			Var.	3,109.2	38.5	55.4					CD Road
646+22.41	653+69.83	Rt.			36	2,989.7	14.5	1,204.2			12	996.6	64.5	5,356.5			64.5	5,356.5	66.3	95.4				114.3	
648+88.65	658+72.87	Lt.			36	3,933.0	7.25	792.1			8	873.0	55.25	6,034.7			55.25	6,034.7	74.7	107.5				152.8	CD Road
653+69.83	655+08.91	Rt.			36	556.3	14.5	224.1			Var.	200.7	Var.	981.0			Var.	981.0	12.1	17.5					
655+08.91	656+68.06	Rt.			Var.	774.3	14.5	256.4			Var.	80.3	Var.	1,128.4			Var.	1,128.4	14.0	20.1					
656+68.06	658+86.49	Rt.			48	1,167.6	14.5	352.1			9.25	225.4	73.75	1,793.7			73.75	1,793.7	22.2	31.9					
658+72.87	659+23.41	Lt.	51.25	240.8									55.25	259.6			55.25	259.6	3.2	4.6				5.9	CD Road
658+86.49	659+39.53	Lt.	61.25	295.5									63.25	303.0			63.25	303.0	3.7	5.4					
658+86.49	659+61.72	Rt.	71.75	512.6									73.75	529.4			73.75	529.4	6.6	9.4					
660+50.59	661+00.51	Lt.	51.25	243.1									56.5	261.7			56.5	261.7	3.2	4.7					CD Road
660+72.18	661+45.82	Lt.	61.25	437.3									73.75	453.6			73.75				451.8	16.8	8.0		
660+91.05	661+45.82	Rt.	71.75	354.5									63.25	361.9			63.25				354.7	13.2	6.3		
661+00.51	661+91.79	Lt.			36	363.1	7.25	73.2			9.25	93.2	56.5	569.9			56.5	569.9	7.1	10.1					CD Road
661+45.82	662+68.06	Rt.			48	653.4	14.5	197.0			9.25	126.1	73.75	1,003.8			73.75				977.1	36.3	17.4		
661+45.82	672+77.40	Lt.			36	4,530.7	12.0	1,509.1					48.0	6,039.8			48.0	6,039.8	74.7	107.5					
661+91.79	666+74.99	Lt.			Var.	955.4					9.25	496.4	Var.	1,559.1			Var.	1,559.1	19.3	27.8					CD Road
662+68.06	665+68.06	Rt.			Var.	1,400.3	14.5	483.3			Var.	330.7	Var.	2,281.0			Var.				2,215.7	82.3	39.5		
665+68.06	677+94.05	Rt.			36	4,898.8	14.5	1,974.8			13.25	1,801.5	65.75	8,946.9			65.75				8,680.7	322.3	154.6		
666+74.99	668+81.19	Lt.			24	552.9					9.25	213.1	35.25	812.1			35.25	812.1	10.0	14.5					CD Road
672+77.40	677+94.05	Lt.			60	3,444.3	12.0	688.9			9.25	531.0	83.25	4,779.0			83.25				4,666.6	173.2	83.1		
677+94.05	678+27.63	Rt.	63.75	237.9									65.75	245.3			65.75				238.0	8.8	4.2		
677+94.05	678+27.63	Lt.	81.25	303.2									83.25	310.7			83.25				303.3	11.3	5.4		
682+00.63	682+34.22	Rt.	63.75	237.9									65.75	245.3			65.75				238.0	8.8	4.2		
682+00.63	682+34.22	Lt.	81.25	303.2									83.25	310.7			83.25				303.3	11.3	5.4		
682+34.22	691+24.01	Rt.			36	3,559.2	14.5	1,433.6			13.25	1,310.0	63.75	6,306.8			63.75				6,306.8	234.1	112.3		
682+34.22	683+03.52	Lt.			60	462.0	12.0	92.4			9.25	71.2	83.25	641.0			83.25				625.9	23.2	11.1		
683+03.52	686+63.52	Lt.			Var.	2,160.0	12.0	480.0			9.25	370.2	Var.	3,090.3			Var.				3,011.9	111.8	53.6		
686+63.52	687+68.29	Lt.			48	558.8	12.0	139.7			9.25	107.7	69.25	806.6			69.25				806.6	29.9	14.4		
687+68.29	698+24.60	Lt.			36	4,227.3	12.0	1,408.6					48.0	5,635.9			48.0	5,635.9	69.7	100.4					
691+24.01	699+24.35	Rt.			36	3,198.6	14.5	1,289.2					50.5	4,487.8			50.5	4,487.8	55.5	79.9					
698+24.60	704+91.14	Lt.			48	3,560.9	12.0	889.0			9.25	687.1	71.25	5,285.7			71.25	5,285.7	65.4	94.1					
699+24.35	709+71.70	Rt.			48	5,586.6	14.5	1,687.4			9.25	1,076.7	73.75	8,583.5			73.75	8,583.5	106.2	152.8					
704+91.14	713+95.39	Lt.			36	3,611.0	12.0	1,205.2					48.0	4,816.2			48.0	4,816.2	59.6	85.8					
709+71.70	718+74.46	Rt.			36	3,613.5	14.5	1,454.6					50.5	5,068.1			50.5	5,068.1	62.7	90.2					
713+95.39	718+88.18	Lt.			36	1,971.2	12.0	657.1			13.25	725.5	63.25	3,463.2			63.25	3,463.2	42.9	61.7					
718+74.46	718+88.18	Rt.			36	54.9	14.5	22.1			13.25	20.2	65.75	100.3			65.75	100.3	1.2	1.8					
718+88.18	719+45.35	Rt.	63.75	322.8									65.75	330.2			65.75	330.2	4.1	5.9					
718+88.18	719+67.19	Lt.	61.25	464.9									63.25	482.6			63.25	482.6	6.0	8.6					
720+94.34	721+73.80	Rt.	63.75	480.7									65.75	498.4			65.75				481.0	17.9	8.6		
721+17.54	721+73.80	Lt.	61.25	307.0									63.25	314.5			63.25				307.2	11.4	5.5		
721+73.80	726+84.75	Rt.			36	2,043.8	14.5	823.2			13.25	752.2	65.75	3,732.8			65.75				3,621.6	134.5	64.5		
721+73.80	726+84.75	Lt.			36	2,043.8	12.0	681.3			13.25	752.2	63.25	3,590.9			63.25				3,479.7	129.2	62.0		
726+84.75	727+18.26	Rt.	63.75	237.3									65.75	244.8			65.75				237.5	8.8	4.2		
726+84.75	727+18.26	Lt.	61.25	228.0									63.25	235.5			63.25				228.2	8.5	4.1		
734+58.26	734+91.84	Rt.	63.75	237.9									65.75	245.3			65.75				238.0	8.8	4.2		
734+58.26	734+91.84	Lt.	61.25	228.6									63.25	236.0			63.25				228.7	8.5	4.1		
734+91.84	740+13.84	Lt.			36	2,088.0	12.0	696.0			13.25	768.5	61.25	3,554.9			61.25				3,554.9	132.0	63.3		
734+91.84	743+97.94	Rt.			36	624.4	14.5	1,459.8			13.25	1,334.0	63.75	6,422.3			63.75				6,422.3	238.4	114.4		
740+13.84	748+20.00	Lt.			36	3,224.6	12.0	1,074.9					48.0	4,299.5			48.0	4,299.5	53.2	76.6					
743+97.94	748+20.00	Rt.			36	688.3	14.5	680.0					50.5	2,368.3			50.5	2,368.3	29.3	42.2					
North Frontage Road																									
2668+77.47	2678+37.29	Lt. & Rt.			Var.	2,561.2									Var.	3,308.1									
2681+89.26	2719+96.91	Lt. & Rt.			Var.	11,505.7									Var.	14,033.7									
2719+49.66	2719+94.73	Lt. & Rt.	28	121.1																					
2721+46.29	2721+91.35	Lt. & Rt.	28	121.1																					
2721+57.39	2727+30.61	Lt. & Rt.			Var.	1,348.5									Var.	1,741.8									
2726+97.03	2727+30.61	Lt. & Rt.	28	102.7																					
2729+68.61	2730+02.20	Lt. & Rt.	28	102.7																					
2730+02.20	2731+04.40	Lt. & Rt.			Var.	272.6									Var.	352.1									
2734+46.39	2758+03.45	Lt. & Rt.			Var.	8,086.2									Var.	9,782.2									
TOTALS				6,120.8		116,942.6		31,468.0		0.0		21,135.1		159,510.1		29,217.8		110,651.8	1,369.1	1,970.5	47,979.5	1,781.3	854.4	530.4	

† Computed at 5% by weight of the top 6" of soil (soil @ 110 lbs./cu. ft.)
◑ Computed at 15% by weight of the top 6" of soil (soil @ 110 lbs./cu. ft.)
Ø Computed at 30% by weight of the top 6" of soil (soil @ 110 lbs./cu. ft.)

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SURV.	-	PLOT	CADD	DES.	-	DR.	-	TR.	-	CKD.	-	APP.	-

CITY OF WICHITA

SUMMARY OF QUANTITIES

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	:	222	534

CONCRETE PAVEMENT

STATION to STATION		SIDE	CONCRETE PVMT. 12" (AE) (BR. APP.)		CONC. PVMT. 10" UNIFORM (AE)(NRDJ)				CONC. PVMT. 10" VARIABLE (AE)(NRDJ)				4" CEMENT TREATED BASE		10" GEOGRID REINFORCED BASE		6" SUBGRADE							PAVEMENT EDGE WEDGE (ROCK)	REMARKS
					MAIN LANES		INSIDE SHOULDER		INSIDE SHOULDER		OUTSIDE SHOULDER							LIME TREATED			FLY ASH TREATED				
			WIDTH FT.	SQ. YDS.	WIDTH FT.	SQ. YDS.	WIDTH FT.	SQ. YDS.	WIDTH FT.	SQ. YDS.	WIDTH FT.	SQ. YDS.	WIDTH FT.	SQ. YDS.	WIDTH FT.	SQ. YDS.	WIDTH FT.	MANIPULATION SQ. YDS.	† LIME TONS	∅ WATER MGAL	MANIPULATION SQ. YDS.	◑FLY ASH TONS	∅ WATER MGAL	TONS	
South Frontage Road																									
1616+35.00	1620+09.57	Lt. & Rt.			Var.	1,424.3									Var.	1,694.4									
1620+09.28	1620+64.74	Lt. & Rt.	40	212.5																					
1622+91.09	1623+46.55	Lt. & Rt.	40	212.5																					
1623+46.55	1662+51.54	Lt. & Rt.			Var.	11,038.3									Var.	13,958.8									
1662+51.54	1662+97.78	Lt. & Rt.	40	188.6																					
1664+27.91	1664+74.15	Lt. & Rt.	40	188.6																					
1664+74.15	1681+48.83	Lt. & Rt.			Var.	7,958.2									Var.	9,262.5									
1685+00.80	1721+81.51	Lt. & Rt.			Var.	9,820.6									Var.	12,293.0									
1721+81.51	1722+30.94	Lt. & Rt.	40	196.6																					
1723+78.14	1724+27.57	Lt. & Rt.	40	196.6																					
1724+27.57	1730+08.67	Lt. & Rt.			Var.	3,027.5									Var.	3,479.8									
1730+08.67	1730+42.25	Lt. & Rt.	60	247.9																					
1732+80.25	1733+13.83	Lt. & Rt.	60	247.9																					
1733+13.83	1734+16.02	Lt. & Rt.			Var.	681.2									Var.	760.7									
1737+58.04	1755+69.43	Lt. & Rt.			Var.	4,842.8									Var.	5,997.4									
Zelta																									
43+97.42	48+68.74	Lt. & Rt.			Var.	1,105.3									Var.	1,281.7									
49+11.79	50+91.47	Lt. & Rt.			Var.	508.5									30	599.0									Intersection
143rd Street																									
39+50.00	47+81.08	Lt. & Rt.			Var.	6,710.3									Var.	8,477.5									
47+81.08	52+11.71	Lt. & Rt.			Var.	8,646.4									Var.	9,559.9									Intersection
51+76.53	61+00.00	Lt. & Rt.	Var.	708.3	Var.	5,783.6									Var.	6,987.0									
Lakeview Drive																									
51+14.61	51+49.90	Lt. & Rt.													Var.	514.0									
159th Street																									
40+55.23	48+01.39	Lt. & Rt.			Var.	5,666.0									Var.	6821.8									
48+01.39	51+75.99	Lt. & Rt.			Var.	8,294.8									Var.	9141.2									Intersection
51+75.99	62+00.00	Lt. & Rt.			Var.	6,656.3									Var.	8055.5									
Ramp P																									
10640+09.95	10640+70.23	Lt. & Rt.			12	80.9					8	53.3	22	147.5			22	147.5	1.8	2.6				16.6	
10640+70.23	10642+00.48	Lt. & Rt.			Var.	181.2					8	115.3	Var.	325.2			Var.	325.2	4.0	5.8				39.0	
10642+00.48	10642+52.03	Lt. & Rt.			16	92.7					8	45.6	26	149.6			26	149.6	1.9	2.7				15.5	
10642+52.03	10645+65.00	Lt. & Rt.			18	643.8					8	274.7	30	1,059.8			30	1,059.8	13.1	18.9				166.2	
Ramp Q																									
20631+46.94	20633+46.94	Lt. & Rt.			12	266.7					10	222.2	24	533.3			24	533.3	6.6	9.5				44.3	
20633+46.94	20633+92.13	Lt. & Rt.			Var.	65.4					Var.	45.9	24	121.2			24	121.2	1.5	2.2				11.0	
20633+92.13	20634+56.59	Lt. & Rt.			Var.	120.9					8	56.6	Var.	191.6			Var.	191.6	2.4	3.4				16.9	
20634+56.59	20635+73.77	Lt. & Rt.			Var.	204.5			Var.	332.8	8	103.2	Var.	709.1			Var.	709.1	8.8	12.6				31.0	
20635+73.77	20638+96.93	Lt. & Rt.			Var.	737.0			6	218.7	8	284.2	Var.	1,383.5			Var.	1383.5	17.1	24.6				198.0	
20638+96.93	20646+32.66	Lt. & Rt.			24	1,961.9			6	497.8	8	643.6	42	3,430.3			42	3430.3	42.4	61.1				367.8	
20646+32.66	20647+62.14	Lt. & Rt.			24	345.3					8	113.3	34	486.7			34	486.7	6.0	8.7				15.9	
20647+62.14	20649+28.67	Lt. & Rt.			Var.	307.2					8	145.7	Var.	489.0			Var.	489.0	6.1	8.7				33.5	
Ramp R																									
10642+54.80	10643+04.80	Lt. & Rt.			18	97.0					8	45.0	30	163.9			30	163.9	2.0	2.9				23.4	
10643+04.80	10646+16.49	Lt. & Rt.			18	623.5					8	277.0	30	1,039.1			30	1039.1	12.9	18.5				140.1	
10646+16.49	10652+91.25	Lt. & Rt.			Var.	2,159.2					8	593.0	Var.	3,074.0			Var.	3074.0	38.0	54.7				292.3	
10652+91.25	10654+41.25	Lt. & Rt.			Var.	335.9					Var.	167.8	Var.	537.9			Var.	537.9	6.7	9.6				19.2	
10654+41.25	10655+10.18	Lt. & Rt.			16	123.2					9.25	70.6	27.25	209.0			27.25	209.0	2.6	3.7					
10655+10.18	10655+89.66	Lt. & Rt.			Var.	121.2					9.25	81.5	Var.	220.2			Var.	220.2	2.7	3.9					
Ramp S																									
10652+85.66	10654+20.66	Lt. & Rt.			Var.	287.1			5.25	35.3	8	119.6	Var.	507.5			Var.	507.5	6.3	9.0					
10654+20.66	10655+79.24	Lt. & Rt.			16	282.0			5.25	92.6	8	140.9	34.75	612.5			34.75	612.5	7.6	10.9					
10655+79.24	10656+72.10	Lt. & Rt.			16	165.1			5.25	54.2	Var.	91.8	Var.	331.6			Var.	331.6	4.1	5.9					
10656+72.10	10658+50.81	Lt. & Rt.			Var.	291.2			5.25	104.2			Var.	435.1			Var.	435.1	5.4	7.7					
Ramp T																									
20661+88.62	20672+77.40	Lt. & Rt.			Var.	3620.0			Var.	568.5	Var.	622.2	Var.	4,965.8			Var.	3,992.0	49.4	71.1	920.5	34.2	16.4		
Ramp U																									
20686+99.95	20698+24.60	Lt. & Rt.			Var.	3312.1			Var.	548.1	Var.	890.4	Var.	5,003.1			Var.	4,132.0	51.1	73.6	871.1	32.3	15.5		
Ramp V																									
10686+14.72	10699+24.35	Lt. & Rt.			Var.	2115.0			Var.	590.2	Var.	790.3	Var.	3,763.5			Var.	3,763.5	46.6	67.0					
Ramp W																									
20704+91.14	20719+31.99	Lt. & Rt.			Var.	2397.5			Var.	711.3	Var.	876.6	Var.	4,273.0			Var.	4,273.0	52.9	76.1					
Ramp X																									
10709+71.70	10718+68.73	Lt. & Rt.			Var.	1988.0			Var.	576.1	Var.	658.4	Var.	3,471.5			Var.	3,471.5	43.0	61.8					
Ramp Y																									
20740+29.75	20748+20.00	Lt. & Rt.			Var.	1763.1			Var.	575.5	Var.	546.6	Var.	3,043.4			Var.	2,556.5	31.6	45.5	486.9	18.1	8.7		
Ramp Z																									
10739+20.19	10748+20.00	Lt. & Rt.			Var.	1371.6			Var.	435.9	Var.	429.0	Var.	2,425.0			Var.	2,425.0	30.0	43.2					
TOTALS THIS SHEET				2,399.5		108,224.3		0.0		5,341.2		8,504.3		43,102.9		98,884.2		40,771.1	504.6	725.9	2,278.5	84.6	40.6	1,430.7	
TOTALS PREVIOUS SHEET				6,120.8		116,942.6		31,468.0		0.0		21,135.1		159,510.1		29,217.8		110,651.8	1,369.1	1,970.5	47,979.5	1,781.3	854.4	530.4	
GRAND TOTALS				8,520.3		225,166.9		31,468.0		5,341.2		29,639.4		202,613.0		128,102.0		151,422.9	1,873.7	2,696.4	50,258.0	1,865.9	895.0	1,961.1	

† Computed at 5% by weight of the top 6" of soil (soil @ 110 lbs./cu. ft.)
◑ Computed at 15% by weight of the top 6" of soil (soil @ 110 lbs./cu. ft.)
∅ Computed at 30% by weight of the top 6" of soil (soil @ 110 lbs./cu. ft.)

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SURV. - PLOT - CADD DES. - DR. - TR. - CKD. - APP. -

CITY OF WICHITA

SUMMARY OF QUANTITIES

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	:	223	534

BRIDGE APPROACH SLAB FOOTING

BRIDGE LOCATION	LOCATION	CU. YDS.
Mainline		
Spring Branch Trib #4	West Approach Slab	80.7
	East Approach Slab	80.6
CD Road over Spring Branch Trib #4	West Approach Slab	31.1
	East Approach Slab	31.8
143rd Street	West Approach Slab	85.9
	East Approach Slab	85.9
Fourmile Creek	West Approach Slab	76.5
	East Approach Slab	76.5
159th Street	West Approach Slab	74.1
	East Approach Slab	74.1
South Frontage Road		
KTA	West Approach Slab	26.2
	East Approach Slab	26.2
Spring Branch Trib. #4	West Approach Slab	25.3
	East Approach Slab	25.3
Fourmile Creek	West Approach Slab	25.6
	East Approach Slab	25.6
Brookhaven Creek	West Approach Slab	39.0
	East Approach Slab	39.0
North Frontage Road		
Fourmile Creek	West Approach Slab	18.2
	East Approach Slab	18.2
Brookhaven Creek	West Approach Slab	17.6
	East Approach Slab	17.6
143rd Street		
SB 143rd Street over Spring Branch Trib #4	North Approach Slab	22.7
	South Approach Slab	22.7
NB 143rd Street over Spring Branch Trib #4	North Approach Slab	37.7
	South Approach Slab	23.6
		1,107.7

EARTHWORK

BALANCE	STATION to STATION		EXCAVATION						COMP.	**EMBANKMENT		PLACE SELECT SOIL	***WASTE	
			COMMON		ROCK *(EX. PVMT.)		CONTRACTOR FURNISHED		TYPE AA MR-O-5	INITIAL CONSOL.	SETTLE-MENT			
			CU. YDS.	VMF	CU. YDS.	VMF	CU. YDS.	VMF	CU. YDS.	CU. YDS.	CU. YDS.	CU. YDS.	CU. YDS.	VMF
1	Mainline													
	631+00.00	704+17.26	22,822	0.87	17,537	1.0	289,566	0.87	277,913					
	Mainline - CD Road													
	631+00.00	668+81.16	12,119	0.87	244	1.0	36,340	0.87	42,159					
	North Frontage Road													
	2668+77.47	2704+00.00	21,834	0.87	0	1.0	49,251	0.87	61,844					
	South Frontage Road													
	1616+35.00	1707+00.00	28,855	0.87	1,880	1.0	21,997	0.87	45,365					
	Zelta													
	42+85.59	51+62.96	1,302	0.87	0	1.0	0	0.87	9					
	143rd Street													
	39+50.00	47+81.08	13,854	0.87	525	1.0	0	0.87	3,750			1,400		
	51+76.53	61+00.00	885	0.87	583	1.0	1,333	0.87	10,233			606		
	Ramp P													
	10640+09.95	10645+65.00	2,937	0.87	321	1.0	0	0.87	11					
	Ramp Q													
	20631+46.95	20649+28.67	26,948	0.87	861	1.0	35,714	0.87	54,516					
	Ramp R													
	10642+54.80	10656+68.06	4,168	0.87	818	1.0	0	0.87	2,084					
	Ramp S													
	10646+16.49	10658+50.81	3,441	0.87	0	1.0	0	0.87	1,406					
	Spring Branch Tributary #4													
	47+51.24	52+63.69	1,944	0.87	0	1.0	0	0.87	1,230					
	BALANCE 1 TOTALS		141,109		22,769		434,201		500,520			2,006		
2	Mainline													
	704+17.26	752+20.00	1,733	0.87	14,749	1.0	168,596	0.87	158,403					
	North Frontage Road													
	2704+00.00	2757+79.96	10,954	0.87	0	1.0	63,685	0.87	64,936					
	South Frontage Road													
	1707+00.00	1755+37.28	5,141	0.87	36	1.0	75,926	0.87	70,528					
	159th Street													
	40+55.23	48+01.39	1,401	0.87	636	1.0	706	0.87	1,833			1,337		
	51+75.99	62+00.00	1,297	0.87	645	1.0	4,524	0.87	5,064			820		
	Fourmile Creek													
	47+02.30	52+81.42	6,221	0.87	0	1.0	0	0.87	724					
	Brookhaven Creek													
	48+03.62	52+13.60	1,687	0.87	0	1.0	0	0.87	628					
	BALANCE 2 TOTALS		28,434		16,066		313,437		302,116			2,157		
	GRAND TOTALS		169,543		38,835		747,638		802,636			4,163		

1,292 Cu. Yds. Hauled from Zelta Rd. to South Frontage Rd. Sta. 1616+35 - 1707+00
9,544 Cu. Yds. Hauled from 143rd Street Sta. 39+50 - 47+68.74 to 143rd Street Sta. 52+11.71 - 61+00
2,924 Cu. Yds. Hauled from Ramp P to Mainline Sta. 631+00 - 704+17.26
1,773 Cu. Yds. Hauled from Ramp R to Mainline Sta. 631+00 - 704+17.26
1,825 Cu. Yds. Hauled from Ramp S to Mainline Sta. 631+00 - 704+17.26
530 Cu. Yds. Hauled from Spring Branch Tributary #4 to Mainline Sta. 631+00 - 704+17.26
5,389 Cu. Yds. Hauled from Fourmile Creek to Mainline Sta. 704+17.26 - 737+00
6,354 Cu. Yds. Hauled from Brookhaven Creek to Mainline Sta. 704+17.26 - 737+00

* All Existing Pavement to be Wasted and shall be paid for as the Bid Item "Pavement Removal" measured in square yards.
** Subsidiary (see General Notes).
*** Does not include pavement to be wasted.

NOTE:
All Volume Multiplication Factors and Compaction Types are assumed pending Final Pavement Recommendation.

RECAPITULATION OF BRIDGE QUANTITIES

BRIDGE NUMBER	STATION	SEE SHEET NO.
Mainline		
XX	659+92.77, 74' Lt.	183, 188-189
XX	660+15.51	183-185
XX	680+11.13	190-192
XX	720+31	193-195
XX	732+84.76	200, 205-208
South Frontage Road		
XX	1621+80.88	180-182
XX	1663+65.18	183, 186-187
XX	1723+11.09	193, 196-197
XX	1731+61.18	200-202
North Frontage Road		
XX	2720+61.23	193, 198-199
XX	2728+50.19	200, 203-204
143rd Street		
XX	56+50.56, 5' Rt.	209-210
XX	56+50.56, 21' Lt.	209, 212-213

RECAPITULATION OF ROAD QUANTITIES

ITEM	QUANTITY	UNIT
LUMP SUM BID ITEMS - PAVING		
Site Clearing & Restoration	1	Lump Sum
Mobilization	1	Lump Sum
Mobilization (DBE)	1	Lump Sum
Field Office and Laboratory (Type A)	1	Each
Foundation Stabilization	294	Cu. Yds.
Foundation Stabilization (Set Price)	1	Cu. Yds.
Granular Backfill (Wingwalls)(Set Price)	1	Cu. Yds.
Concrete for Seal Course (Set)	1	Cu. Yds.
Common Excavation	169,543	Cu. Yds.
Common Excavation (Contractor Furnished)	747,638	Cu. Yds.
Select Soil	4,163	Cu. Yds.
Pavement Removal	129,583	Sq. Yds.
Class III Excavation	448	Cu. Yds.
Removal of Existing Structures	1	Lump Sum
Compaction of Earthwork (Type AA) (MR-O-5)	802,636	Cu. Yds.
Water (Grading)(Set Price)	1	M. Gal.
Concrete (Gr. 4.0)(RCB)	886.0	Cu. Yds.
Reinforcing Steel (Gr. 60)	150,620	Lbs.
Cement Treated Base (4")	202,613	Sq. Yds.
10" Geogrid Reinforced Base	128,102	Sq. Yds.
Concrete Pavement (10" Uniform) (AE) (NRDJ)	256,635	Sq. Yds.
Concrete Pavement (10" Variable) (AE) (NRDJ)	34,981	Sq. Yds.
Concrete Pavement (VG) 10" (Reinf)	157	Sq. Yds.
Concrete Pavement (VG) 10" (Reinf)	1,896	Sq. Yds.
Concrete Pavement (12" Uniform) (AE) (Bridge Approach)	8,521	Sq. Yds.
Colored Stamped Concrete (6" Unifrom) (PL)	99	Sq. Yds.
Concrete (4") (PL)	1,603	Sq. Yds.
Bridge Approach Slab Footing	1,107.7	Cu. Yds.
Quality Control Testing (PCCP)	302,190	Sq. Yds.
Concrete Core (Set Price)	1	Each
Concrete Pavement Smoothness	1	Lump Sum
Pavement Edge Wedge (Rock)	1,962	Ton
Water for Earthwork Compaction (Set Price)	1	M. Gal.
Manipulation for Treated Subgrade (Lime)	151,423	Sq. Yds.
Manipulation for Treated Subgrade (Fly Ash)	50,258	Sq. Yds.
Lime	1,874	Ton
Fly Ash	1,866	Ton
Water (Treated Subgrade)	3,592	M. Gal.
AC Pavement 7" (5" Bit. Base)	301	Sq. Yds.
Brick Pavers(Concrete), Crosswalk	699	Sq. Yds.
Brick Pavers(Concrete), Median	2,337	Sq. Yds.
Wheelchair Ramp w/ Detectable Warning Panels	50	Each
Concrete Safety Barrier (Type I)	52	Lin. Ft.
Concrete Safety Barrier (Type II) (Spec.)	22,667	Lin. Ft.
Concrete Safety Barrier (Type II) (Spec.)(54")	340	Lin. Ft.
Concrete Safety Barrier (Type IV) (Spec.)	10,092	Lin. Ft.
Curb and Gutter, Combined (AE) (Type I)	44,642	Lin. Ft.
Curb and Gutter, Combined (AE) (Type II)	428	Lin. Ft.
Curb and Gutter, Combined (AE) (Type III)	6,920	Lin. Ft.
Curb and Gutter, Combined (AE) (Type III) (Spec.)	732	Lin. Ft.
Concrete Ramp Nose Section (Median)	5	Each
Guardrail, Steel Plate	293.75	Lin. Ft.
Guardrail End Terminal (SRT) Alt. #1	1	Each
Guardrail End Terminal (FLEAT) Alt. #2	1	Each
Guardrail, Removal of Steel Plate	3,292.50	Lin. Ft.
Impact Attenuator (Severe Duty) (Narrow Hazard)	10	Each
Impact Attenuator (Severe Duty) (Wide Hazard)	1	Each
Fence	4,904.1	Lin. Ft.
MEASURED QUANTITY BID ITEMS - PAVING		
Retaining Wall (MSE)	133,376	Sq. Ft.
Retaining Wall (Soil Nail)	4,085	Sq. Ft.
Retaining Wall (T-Type) (30" and Taller)	1,050	Lin. Ft.
Concrete Masonary Coating	114,662	Sq. Ft.
Concrete Driveway (6")	4,725	Sq. Ft.
Concrete Driveway (8")	1,707	Sq. Ft.
Concrete Sidewalk (4")	145,054	Sq. Ft.
Temporary Pavement (10")	24,427	Sq. Yds.

For SWS Quantities, See Sheet No. 130
For Sanitary Sewer Quantities, See Sheet No. 139
For Water Line Quantities, See Sheet No. 162

CITY OF WICHITA

SUMMARY OF QUANTITIES

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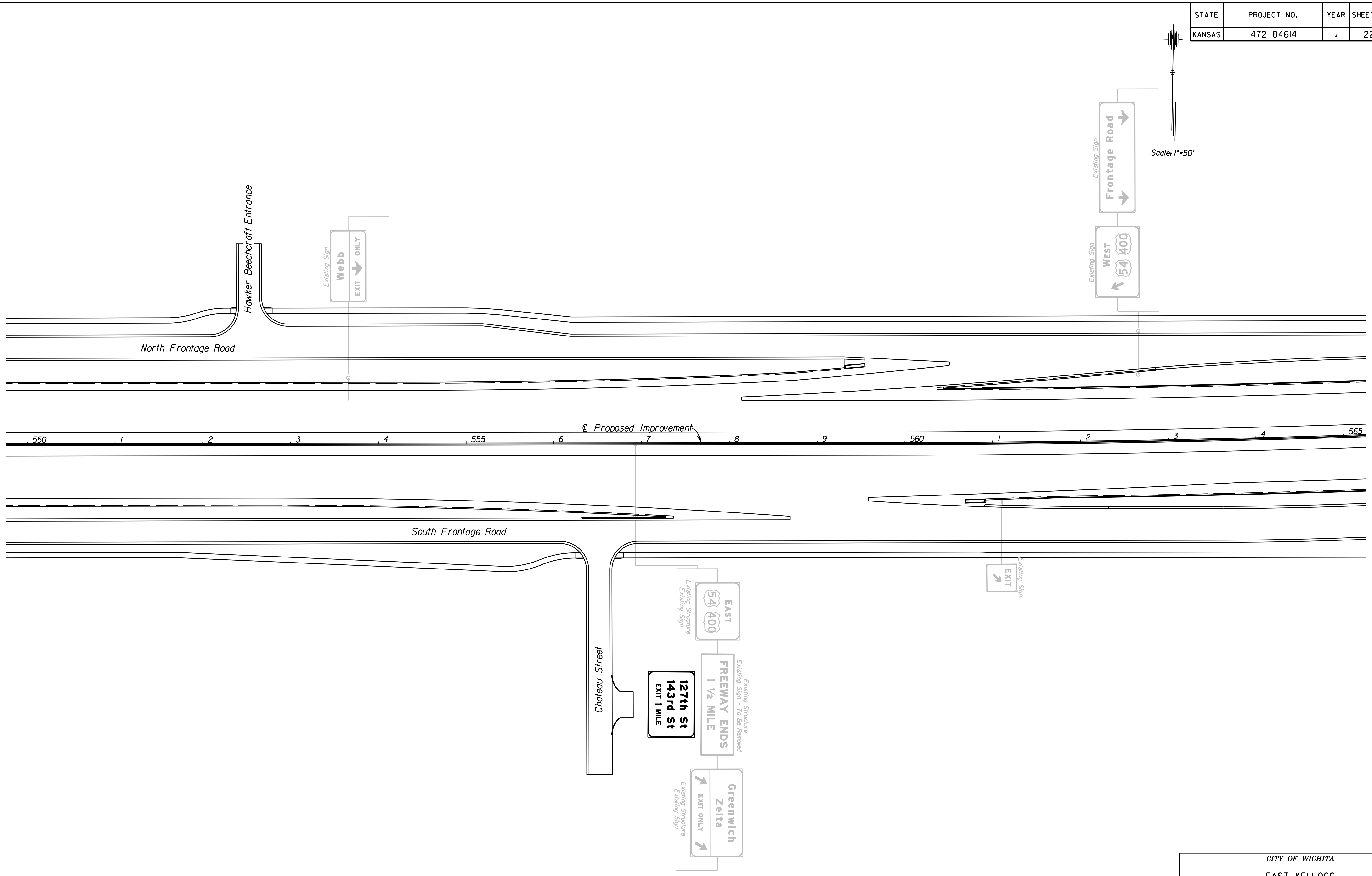
SURV.	-	PLOT	CADD	DES.	-	DR.	-	TR.	-	CKD.	-	APP.	-

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	:	224	534



CITY OF WICHITA

EAST KELLOGG

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STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
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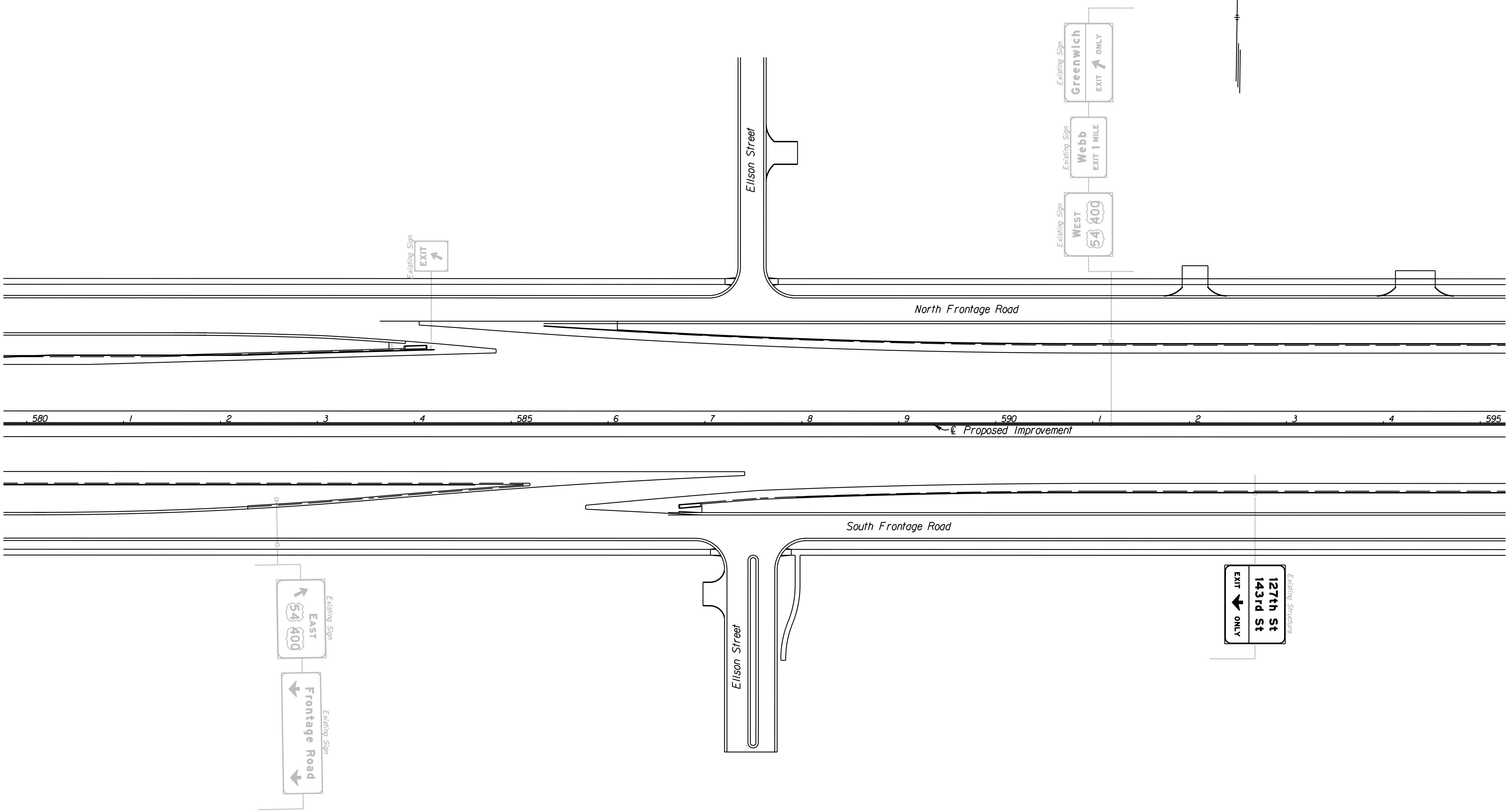

CITY OF WICHITA

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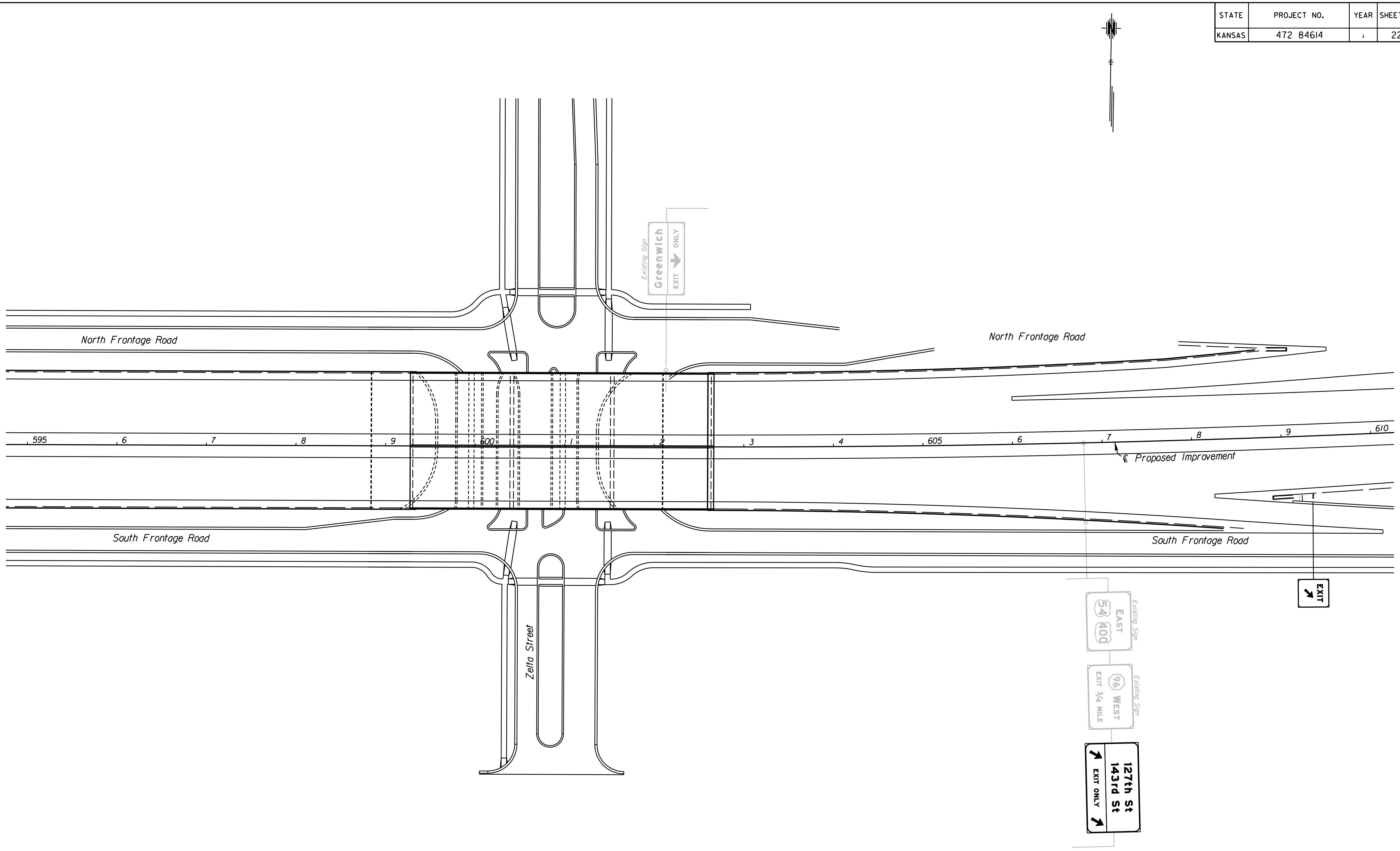
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	:	226	534



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SURV. - PLOT - CADD DES. - DR. - TR. - CKD. - APP. -

CITY OF WICHITA
EAST KELLOGG
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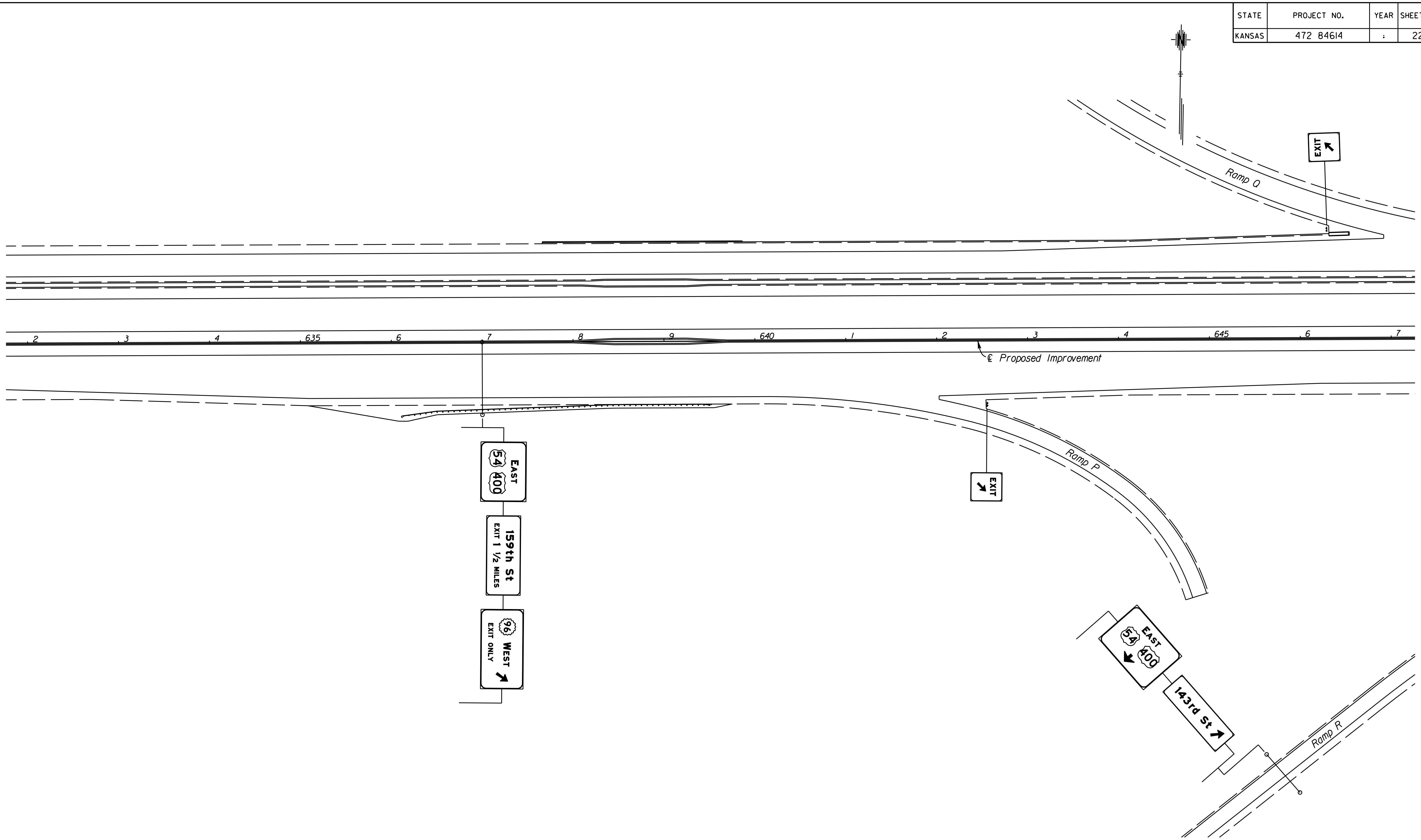
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	:	227	534



CITY OF WICHITA

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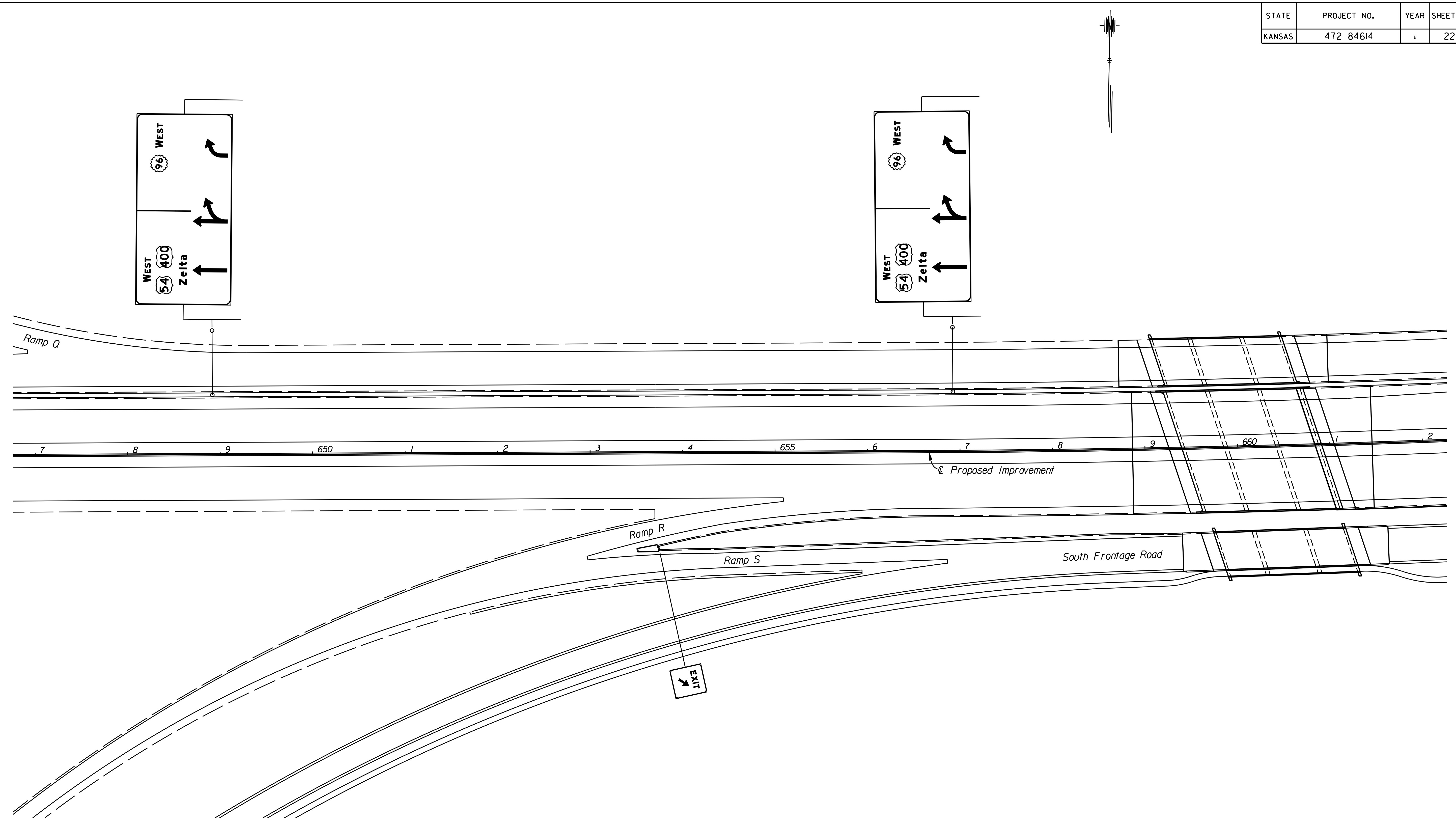
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	:	228	534



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CITY OF WICHITA

EAST KELLOGG

SIGNING PLAN

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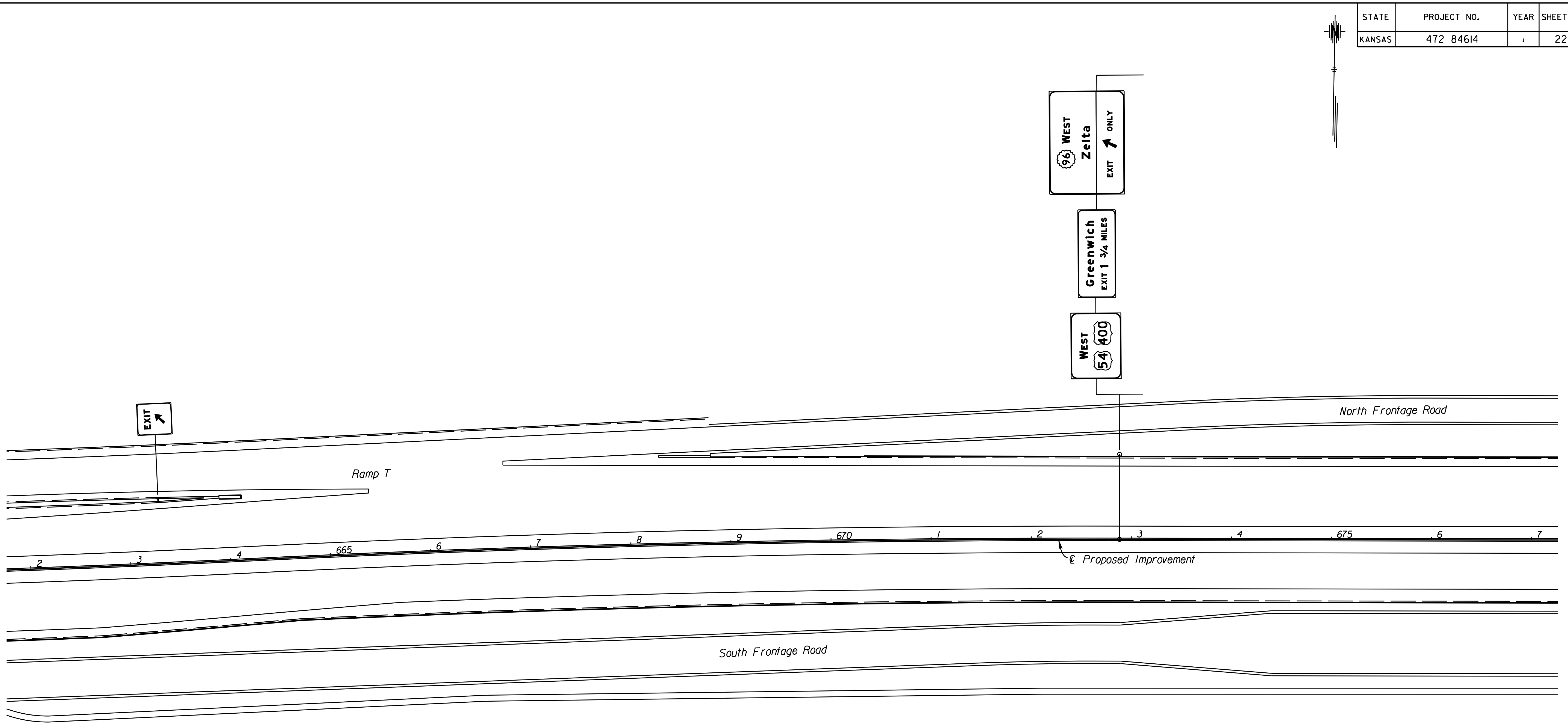
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	:	229	534



CITY OF WICHITA

EAST KELLOGG

SIGNING PLAN

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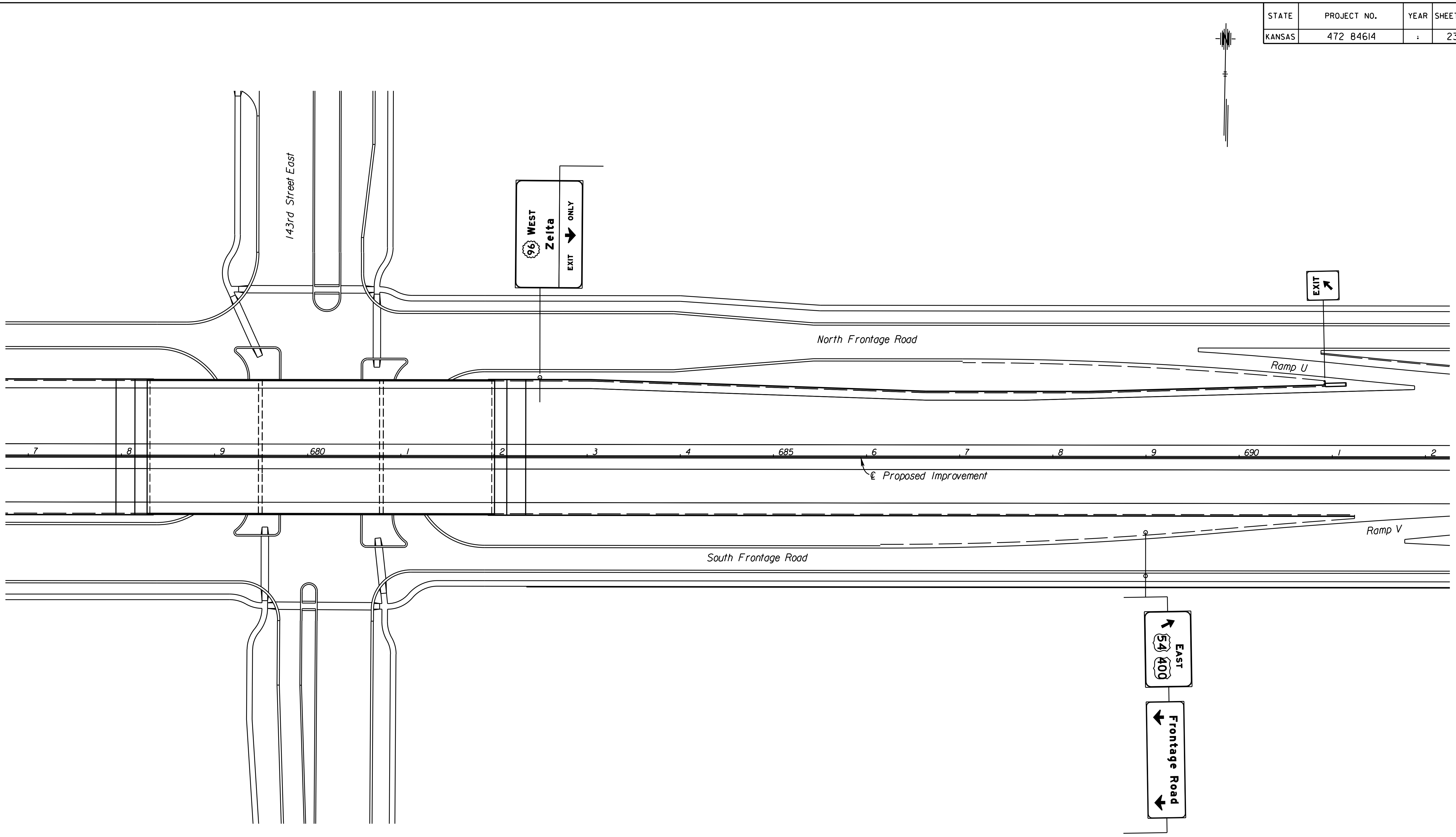
SURV.	-	PLOT	CADD	DES.	-	DR.	-	TR.	-	CKD.	-	APP.	-

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	:	230	534



CITY OF WICHITA

EAST KELLOGG

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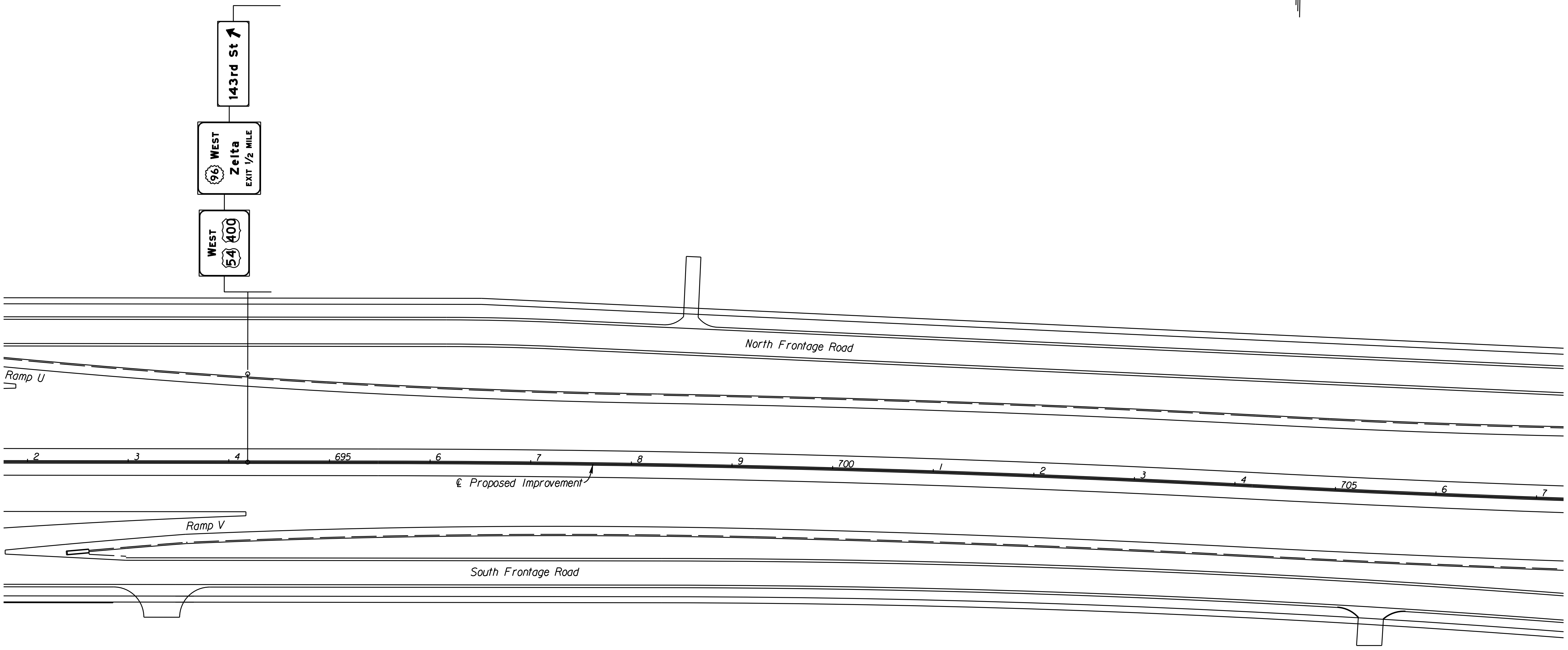
SURV.	-	PLOT	CADD	DES.	-	DR.	-	TR.	-	CKD.	-	APP.	-

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	:	231	534



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SURV.	-	PLOT	CADD	DES.	-	DR.	-	TR.	-	CKD.	-	APP.	-

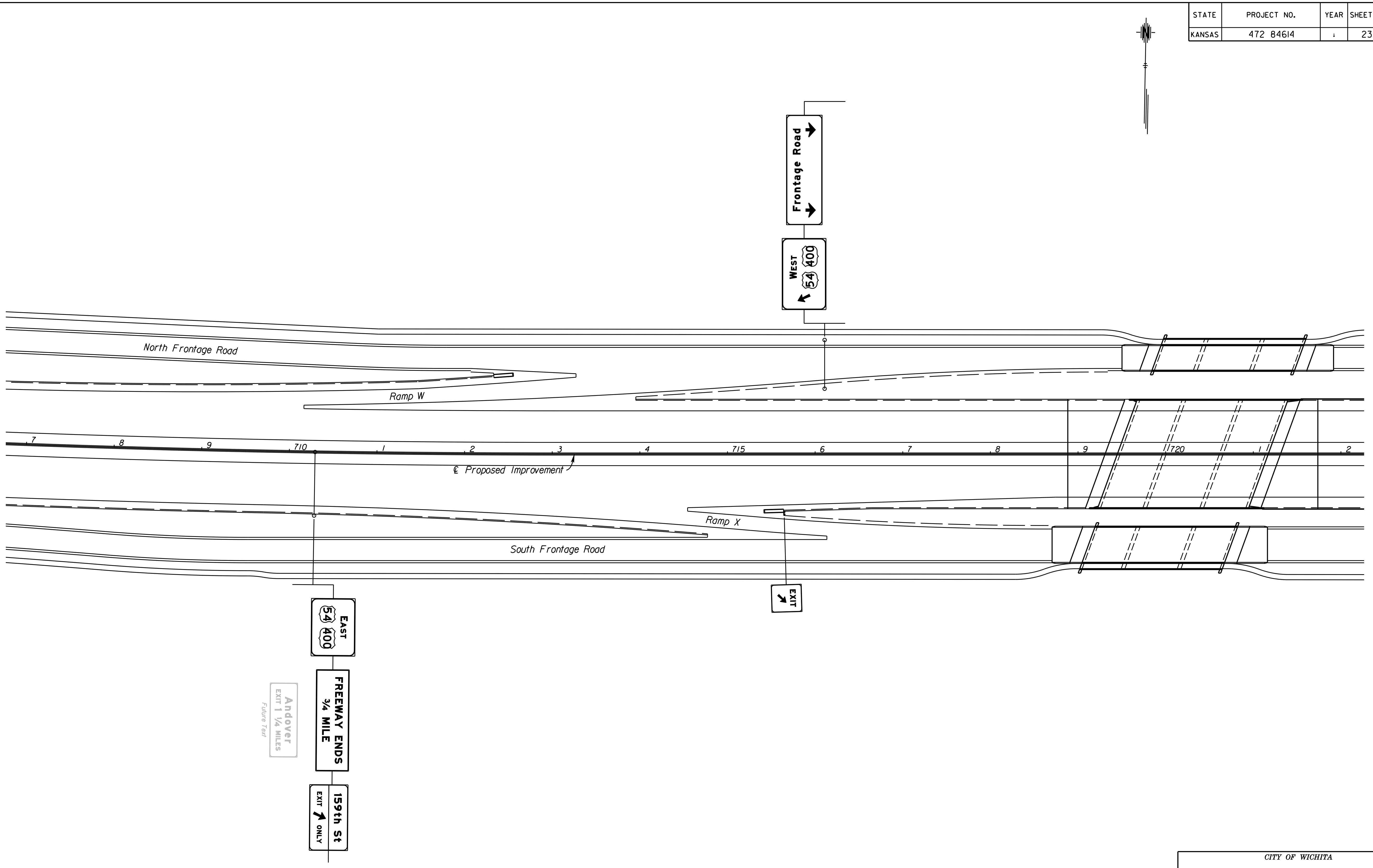
CITY OF WICHITA

EAST KELLOGG

SIGNING PLAN

STA. 692+00 TO STA. 707+00

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	:	232	534



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SURV.	-	PLOT	CADD	DES.	-	DR.	-	TR.	-	CKD.	-	APP.	-

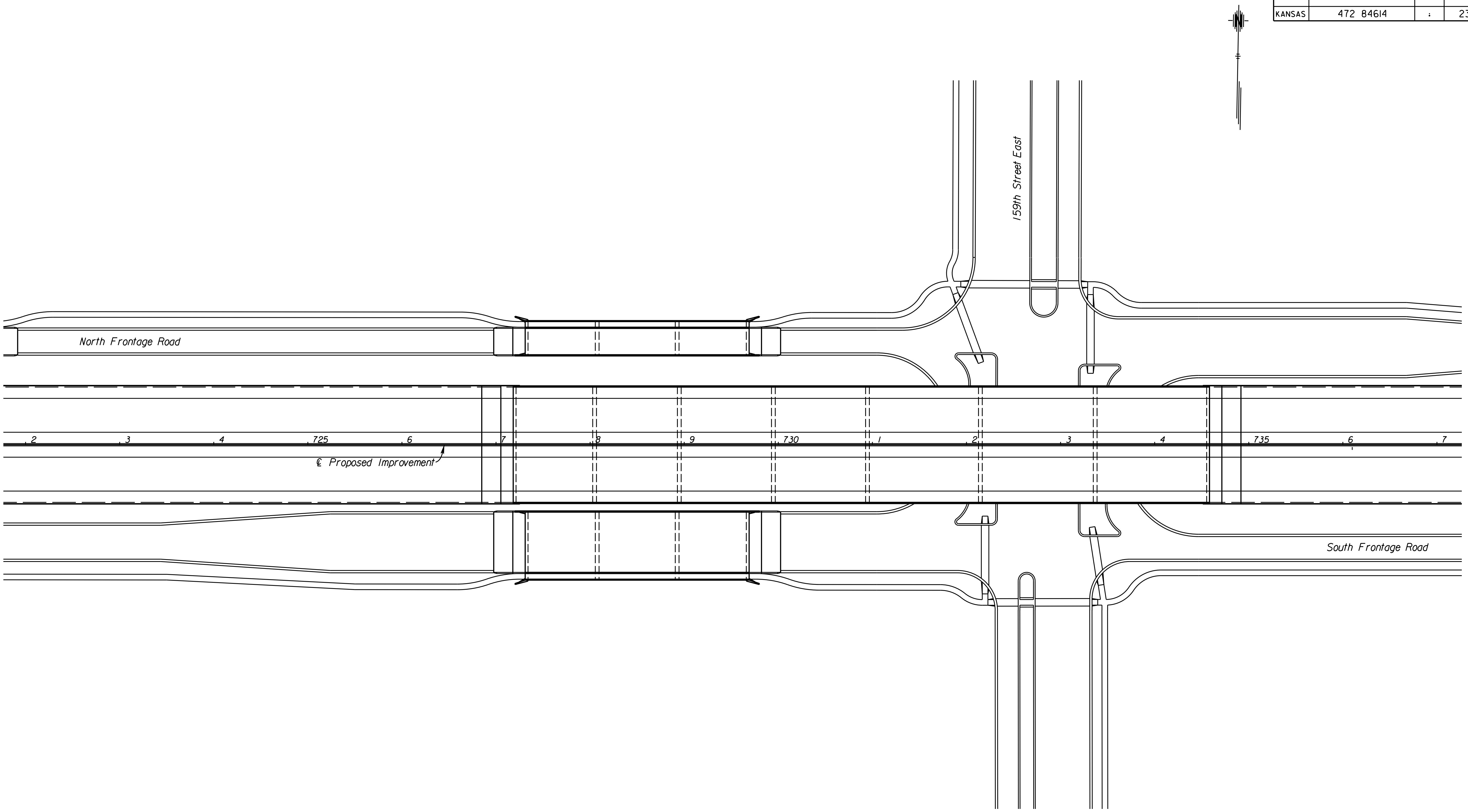
CITY OF WICHITA

EAST KELLOGG

SIGNING PLAN

STA. 707+00 TO STA. 722+00

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	:	233	534



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SURV. - PLOT CADD DES. - DR. - TR. - CKD. - APP. -

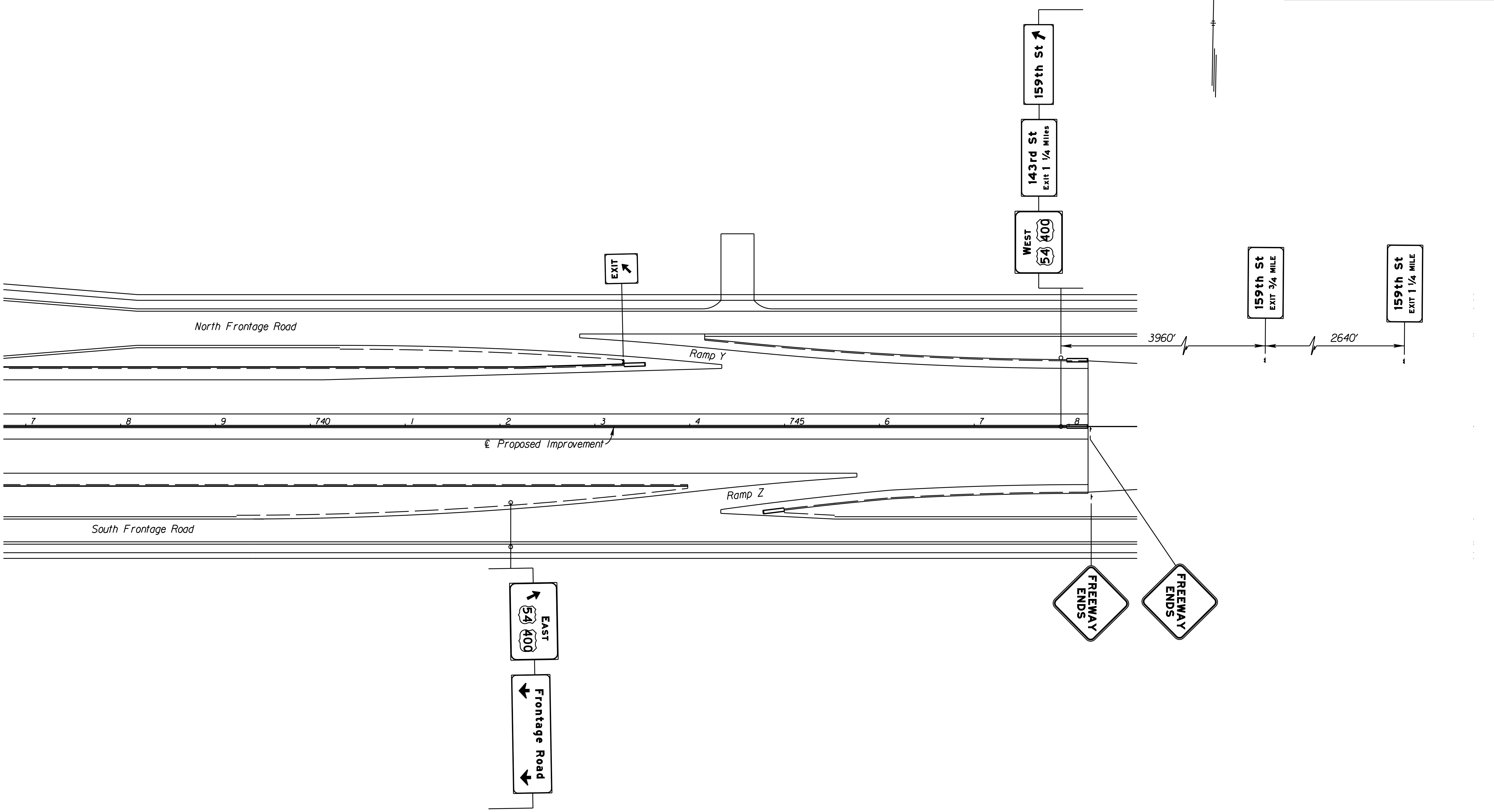
CITY OF WICHITA

EAST KELLOGG

SIGNING PLAN

STA. 722+00 TO STA. 737+00

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	:	234	534



CITY OF WICHITA

EAST KELLOGG

SIGNING PLAN

STA. 737+00 TO STA. 748+00

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STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	235	534

GENERAL NOTES

1. In recognition of the Storm Water Pollution Prevention Plan (SWPPP), Contractor shall conduct all construction operations such that less than ten (10) acres of soil are disturbed and remain unrestored at any one time. Strip and stockpile top 6" of topsoil, over-cut excavations 6", and spread 6" of reclaimed topsoil over all areas to be permanently seeded or sodded (subsidiary to earthwork). Provide soil stabilization for disturbed areas where construction is not expected to resume within 14 calendar days. Provide the sedimentation basins and storm water treatment, sampling, testing and reporting required by 40 Code of Federal Regulations (CFR) 450, including any design, temporary construction easements, and permits necessary. Temporary sedimentation basins will not be permitted at any locations beneath permanent paving, retaining walls or other structures without approval of the Engineer, and unless all foundations are completely restored before construction proceeds.

2. Contractor shall coordinate construction with private utility adjustments.

3. Contractor shall submit a detailed plan and schedule as required by the Specifications, and may submit an alternative sequencing plan, subject to approval of the Engineer.

4. Contractor shall construct all temporary pavement necessary to divert traffic from existing roads to the new construction and back again, and maintain all traffic during construction. Where temporary pavement abuts new pavement, temporarily omit curb & gutter. The contract unit price for Temporary Pavement (10") shall include all costs associated with the temporary pavement including temporary culverts, grading, base course, paving, maintenance, removal and disposal. Temporary paving may be concrete or asphalt, but Contractor shall be responsible for maintenance and repair of the temporary paving throughout construction. As project nears completion, temporary paving is to be removed except where the new construction ties into existing pavement.

5. Contractor shall temporarily pave 143rd and 159th Streets between the frontage roads as necessary to maintain traffic and coordinate construction. Traffic crossing at 143rd Street and 159th Street may be diverted using Temporary Surfacing Material while erecting bridge girders or where otherwise necessary for safety, but shall otherwise be routed directly through construction.

6. Contractor shall coordinate all temporary and permanent signage, traffic signals, lighting, and other electrical work with the construction sequence and traffic shift requirements.

7. Contractor shall notify the City at least 2 weeks in advance of major traffic shifts, and assist in development of press releases.

8. Contractor shall maintain access to all properties throughout construction, except as noted on the plans or approved by the Engineer.

9. ConocoPhillips Pipe Line Company, has prior rights to an easement along 127th Street, and all work in the vicinity of their gas pipeline must conform to their Encroachment Guidelines. Other utility companies may have similar restrictions that shall be verified prior to construction and incorporated into the project safety plan.

MAINTENANCE OF TRAFFIC: DESIGN GUIDELINES

	MAINLINE	FRONTAGE ROADS	SIDE ROADS	K-96 RAMPS	REMARKS
Design AADT	31,100	31,100			2010 AADT
Minimum Number of Lanes	4	4	2	1	Frontage Roads, 2 lanes EB, 2 lanes WB
Maximum Number of Lanes	6	6	4	1	Side Roads - match existing
Minimum Lane Width (ft.)	11	11	10	12	
Desired Lane Width (ft.)	12	12	12	16	
Design Speed	40	40	25	25	
Min. Horiz. Curve Radus	See AASHTO Geometric Design of Highways and Streets 2004; Exhibit 3-16, Page 151				
Clearzone (ft.)	10	8	6	10	For lesser zones, post and/or reduce speed
Minimum Roadway Width	52'	28'	24'	16'	
Driving Lanes	4' @ 11'	2 @ 12'	2 @ 11'	1 @ 12'	
Median	4'	N/A	N/A	N/A	
Shoulders					
Paved	2 @ 2'	2 @ 2'	2 @ 2'	2 @ 2'	
Median Turf	2'	N/A	N/A	2'	
Outside Turf	2' to 8'	2' to 6'	2'	8'	
Manual on Uniform Traffic Control Devices (MUTCD) compliance is mandatory.					
Edge drop-off protection is required (Use of Concrete Barrier, Channelizing devices, or slope at 3:1)					
Minimum clearance to barrier/channelizing devices as measured from edge of lane to face of barrier/channelizing device:					
- 1' on drivers side					
- 2' on passenger side					

It is anticipated that 143rd Street and the north end of 159th Street will tie into improved roadway sections at the time of construction.

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CITY OF WICHITA

EAST KELLOGG
CONSTRUCTION SEQUENCE
GENERAL NOTES

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	236	534

CONSTRUCTION SEQUENCE PHASE I

SUB PHASE		CONSTRUCTION	TRAFFIC	REMARKS
A	*Temporary Erosion Control*	*1. Construct storm water sedimentation basin(s) and employ other Best Management Practices (BMPs).* *2. Construct Sanitary SewerLine 1. Coordinate other sedimentation basins with utility construction.*	*Traffic to be carried on existing roadways.*	*Possible suitable location for sedimentation basin would be in the ditch north of North Frontage Road between Sta. 2670+00 and 2679+00.*
B	*South end of RCB Sta. 746+72.83 at Green Valley Tributary, east of 159th Street*	*1. Install Waterline No. 2 east of 159th Street, and Waterline No. 4 south of Kellogg.* *2. Temporarily pave part of existing Kellogg median and north shoulder between Stations 739+00 and 757+50, providing minimum 52' width in WB lanes.* *3. Between Stations 739+00 and 757+50, install temporary median barrier to separate EB Kellogg traffice from WB Kellogg Traffic.* *4. Temporarily widen existing 159th Street south of existing Kellogg and shift 2-way traffic onto it.* *5. Construct the south end of RCB Sta. 746+72.83 at Green Valley Tributary.* *6. Construct the eastern part of 159th Street south of Kellogg, and South Frontage Road east of 159th Street.* *7. Construct the 2 southern lanes of EB Kellogg from Sta. 744+50 to Sta. 748+20, and the transition to existing Kellogg Sta. 752+20.* *8. Construct Ramp Z and temporarily stripe for 2 lanes of EB Kellogg traffic.* *9. Construct a temporary transition from existing EB Kellogg to new lanes at Sta. 744+50.*	*Temporarily widen WB Kellogg, east of 159th St. and shift EB and WB Kellogg traffic onto it.* *Temporarily widen 159th St. south of Kellogg to the west, and shift 2-way 159th St. traffic onto it.* *After construction of this phase, shift the EB Kellogg traffic, and 2-way traffic on 159th St. south of Kellogg onto the newly constructed lanes.*	*The minimum paved section for 2-way traffic on Kellogg is 52', including four 11' driving lanes, a 4' median with temporary concrete barrier, and two 2' shoulders. Also provide 8' dirt shoulder outside, and 2' dirt shoulder in the median except at the existing RCB Sta. 747+00.*
C	*Complete Public Utilities*	*1. Sanitary Sewer Line 2.* *2. Sanitary Sewer Lines 3 and 3A.* *3. Sanitary Sewer Lines 4 and 5.* *4. Water Lines 1 and 3, and the remainder of Water Lines 2 and 4.*	*Traffic to be carried on existing roadways.* *Utilize local traffic controls, Temporary Surfacing Material, temporary shoring, and/or boring/jacking techniques to maintain traffic where crossing or encroaching upon existing streets.*	*Coordinate utility construction closely with other construction for appropriate sequencing, and to prevent damage from activities such as pile driving. Test utilities after pile driving and other likely sources of damage are completed.*
D	*North Frontage Road, CD Road and K-96 Ramp Q, Bridges and Drainage Structures*	*1. Bridge Sta. 659+92.77, 74.00' Lt., CD Road over Spring Branch Tributary No. 4.* *2. North end of RCB Sta. 667+23.77* *3. North end of RCB Sta. 669+59.30* *4. North end of RCB Sta. 687+82.78* *5. Bridge Sta. 2720+61.23, North Frontage Road over Fourmile Creek.* *6. Bridge Sta. 2728+50.19, North Frontage Road over Brookhaven Creek.* *7. CRP at K-96 Ramp Q Sta. 20644+50* *8. All other drainage structures necessary to begin construction of North Frontage Road, CD Road and Ramp Q.*	*Traffic to be carried on existing roadways.*	*The CRPs at K-96 Ramps P and R are constructed in 2 stages each; the RCBs at Stations 667+23.78, 669+59.31 and 746+72.83 are constructed in 3 stages each; and the RCB at Sta. 687+82.78 is constructed in 4 stages. Shop drawings shall include details for connecting the various sections. The SWPPP shall include provisions for maintaining drainage and carrying storm water flows through construction, while minimizing impacts from construction runoff. Discharges from dewatering trenches and excavations are prohibited unless managed by appropriate controls.*
E	*South Frontage Road, K-96 Ramps P, R, and S, Bridges and Drainage Structures*	*1. Bridge Sta. 1621+80.88, South Frontage Road over KTA.* *2. Bridge Sta. 1663+65.18, South Frontage Road over Spring Branch Tributary No. 4.* *3. South end of RCB Sta. 687+82.78* *4. Bridge Sta. 1723+11.09, South Frontage Road over Fourmile Creek.* *5. Bridge Sta. 1731+61.18, South Frontage Road over Brookhaven Creek.* *6. Northeast portion of CRP at K-96 Ramp P Sta. 10644+50.* *7. CRP South Frontage Road Sta. 1655+15.35 and south end of CRP at K-96 Ramp R Sta. 10650+50.* *8. CRP at South Frontage Road Sta. 1640+89.79* *9. All other drainage structures necessary to begin construction of South Frontage Road and K-96 Ramps P, R and S.*	*Traffic to be carried on existing roadways.*	

CITY OF WICHITA
EAST KELLOGG
CONSTRUCTION SEQUENCE
PHASE I

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	237	534

CONSTRUCTION SEQUENCE PHASE 1 (CONTINUED)

SUB PHASE		CONSTRUCTION	TRAFFIC	REMARKS
F	Side Road Bridges and Drainage Structures	1. 143rd Street Bridge at Sta. 56+50.56, 21.00' Lt. over Spring Branch Tributary No. 4, and temporary pavement to maintain traffic. 2. 143rd Street Bridge at Sta. 56+50.56, 5.00' Rt. over Spring Branch Tributary No. 4. 3. All other drainage structures necessary to begin side road construction.	Traffic to be carried on existing roadways as much as possible. At 143rd Street, construct the east bridge (22' Lt.) first. Construct temporary pavement and shift 2-way traffic onto the new bridge, then construct the west bridge (5' Rt.).	
G	Retaining Walls	1. Soil Nail Retaining Wall A. 2. T-Type Retaining Wall J.	Traffic to be carried on existing roadways.	

CONSTRUCTION SEQUENCE PHASE 2

SUB PHASE		CONSTRUCTION	TRAFFIC	REMARKS
A	North end of RCB Sta. 746+72.83 at Green Valley Tributary, plus parts of 159th Street, North Frontage Road and Ramp Y	1. Between Stations 739+00 and 757+50, remove temporary median barrier and shift WB Kellogg traffic south onto the temporarily paved median and 1 lane of existing WB Kellogg. 2. From Sta. 744+50 to Sta. 752+20, remove the north lane of existing WB Kellogg, and concurrently reinstall temporary barrier along the north side. 3. Construct the north end of RCB Sta. 746+72.83 at Green Valley Tributary, east of 159th Street. 4. Temporarily widen 159th Street north of Kellogg to the west and shift 2-way 159th Street traffic onto it. 5. Construct the eastern part of 159th Street noth of Kellogg and shift 2-way 159th Street traffic onto it. 6. Construct at least 2 through lanes of North Frontage Road east of 159th Street, plus a right turn lane at 159th Street (See Remarks at right). a. Temporarily omit southern lanes of North Frontage Road at 159th Street as needed to permit bridge construction in Phase 4 (see Remarks at right). 7. Construct Ramp Y, and temporarily stripe for 2 lanes of WB traffic. 8. Construct the 2 northern lanes of WB Kellogg from Sta. 743+50 to Sta. 748+20, and the transition to existing Kellogg Sta. 752+20. Construct the transition pavement sequentially to maintain traffic.	EB Kellogg traffic east of 159th Street continues on 2 new EB lanes. South 143rd Street traffic continues 2-way on temporary pavement. South 159th Street traffic continues 2-way on newly constructed eastern lanes. WB Kellogg traffic east of 159th Street is shifted to the temporarily paved median and the inside lane of existing WB Kellogg. 2-way traffic on 159th Street north of Kellogg is shifted west to temporary pavement. After constructing the eastern lanes of 159th Street north of Kellogg, shift 2-way traffic onto them. All other traffic to be carried on existing roadways.	For North Frontage Road and South Frontage Road, construct at least two through lanes each, except at the approaches to 143rd Street and 159th Street, provide an additional outside lane for right turns and temporarily omit inside lanes for bridge construction. Also construct all side roads, entrances and sidewalks north of North Frontage Road and south of South Frontage Road. Under this sequencing plan, the last portion of frontage road constructed in Phase 2 is the North Frontage Road from the bridge 74.00' Lt. of Sta. 659+92.77 (CD Road over Spring Branch Tributary No. 4) to 143rd Street. This is so the storm water sedimentation basin on the north side of this zone remains representative of the project. 127th Street connection to Kellogg must be maintained until it is time to open the new South Frontage Road on this project. When South Frontage Road is opened to traffic, the temporary connection of 127th Street to Kellogg must be eliminated, and the intersection of South Frontage Road and 127th street can be completed. This sequencing plan requires considerable temporary paving for the construction of 143rd Street and 159th Street. The final design may include a thinner temporary paving section than for mainline Kellogg traffic. Also, where geometrics permit, the final design may include construction of permanent roadway base to temporarily carry traffic, in lieu of temporary paving.
B	South Frontage Road Sta. 1616+35 to Sta. 1668+50 and Sta. 1704+00 to 159th Street, part of Ramp S, 127th Street, and complete south 159th Street	1. Construct South Frontage Road from Sta. 1616+35 to Sta. 1668+50. a. Construct temporary pavement and the 127th Street crossing in 2 steps while maintaining 2-way traffic on 127th Street 2. Construct Ramp S from Sta. 10642+54.80 to 10658+02.03, including portions of Ramp R. 3. At South Frontage Road Sta. 1665+00, construct a temporary 2-lane EB ramp from South Frontage Road, crossing existing EB Kellogg to existing WB Kellogg. 4. Construct South Frontage Road from Sta. 1704+00 to 159th Street (see Remarks at right). 5. Construct the western lanes of 159th Street south of Kellogg 6. At South Frontage Road Sta. 1704+00, construct a temporary 2-lane EB ramp from existing WB Kellogg, crossing existing EB Kellogg to South Frontage Road. 7. Construct the inprovements at the intersection of Lakeview Drive and Stagecoach, south of South Frontage Road Sta. 1696+00. Utilize temporary surfacing material to maintain 2-way traffic during construction.	EB Kellogg traffic east of 159th Street continues on 2 new EB lanes. WB Kellogg traffic east of 159th Street continues on the temporarily paved median and the inside lane of existing WB Kellogg. South 143rd Street traffic continues 2-way on temporary pavement. 159th Street traffic continues 2-way on newly constructed eastern lanes. Construct South Frontage Road crossing of 127th Street in 2 steps to maintain 2-way north/south traffic. Maintain the 127th Street connection to existing Kellogg (if it still exists) until it is time to open the new South Frontage Road. On completion of 159th Street south of Kellogg, release traffic onto it. All other traffic to be carried on existing roadways.	

CITY OF WICHITA
EAST KELLOGG
CONSTRUCTION SEQUENCE
PHASE 1 (CONTINUED) & PHASE 2

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KANSAS	472 84614	.	238	534

CONSTRUCTION SEQUENCE PHASE 2 (CONTINUED)

SUB PHASE		CONSTRUCTION	TRAFFIC	REMARKS
C	Remainder of North Frontage Road, CD Road, portions of the K-96 ramps, north 143rd Street and north 159th Street	*1. Construct the western lanes of 159th Street north of Kellogg and release traffic onto them.* *2. Temporarily widen 143rd Street north of Kellogg to the west and shift 2-way traffic onto it, plus turn lanes equivalent to existing conditions.* *3. Construct the eastern lanes of 143rd Street north of Kellogg, temporarily omitting curb & gutter at the connection with North Frontage Road.* *4. Temporarily widen the newly constructed lanes of 143rd Street north of Kellogg at North Frontage Road to provide turn lanes, and release traffic onto them.* *5. Construct the western lanes of 143rd Street north of Kellogg and release traffic onto them.* *6. Construct North Frontage Road from 143rd Street to 159th Street.* *7. Temporarily widen: 1) the inside lane of NB K-96 north of Kellogg at Ramp Q; 2) outside the curve of K-96 Ramp P; and 3) inside the curve of K-96 Ramp R.* *8. Complete the CRP at K-96 Ramp P Sta. 10644+50.* *9. Construct K-96 Ramps Q & P.* *10. Construct the CD Road from Sta. 646+50 to the bridge at Sta. 659+92.77, Spring Branch Tributary No. 4.* *11. At Sta. 653+00, construct a temporary 1-lane WB ramp from existing WB Kellogg to the new CD Road, and divert traffic bound for NB K-96 to new Ramp Q.* *12. Demolish the old K-96 ramps north of Kellogg. Construct the remainder of the CD Road from Sta. 631+00 to Sta.646+50.* *13. Construct North Frontage Road from the bridge at Sta. 659+92.77, Spring Branch Tributary No. 4, to 143rd Street.*	*Beginning traffic conditions: EB Kellogg traffic east of 159th Street continues on 2 new EB lanes. WB Kellogg traffic east of 159th Street continues on the temporarily paved median and the inside lane of existing WB Kellogg. 143rd Street traffic south of Kellogg continues 2-way on temporary pavement. 159th Street traffic north of Kellogg continues 2-way on newly constructed eastern lanes. 159th Street south of Kellogg is complete and open to traffic. All other traffic is on existing roadways.* *Upon completing Ramp Q and appurtenant items, divert WB traffic bound for NB K-96 onto it.* *Upon completing 143rd Street and 159th Street north of Kellogg, release traffic onto the new construction.*	
D	Divert EB & WB Kellogg traffic to the new frontage roads	*1. Install all temporary paving, traffic signals, pavement markings and other traffic control devices necessary for diverting traffic to the new frontage roads.* *2. At the Zelta intersection west of the project, remove the temporary barriers (installed on a prior to project), thus allowing access to North and South Frontage Roads.* *3. At east end of project, construct a portion of the transition ramp from existing WB Kellogg to the newly constructed WB Kellogg lanes.*	*At east end of project, shift WB Kellogg traffic to the new lanes of WB Kellogg, thence to Ramp Y, thence to North Frontage Road, thence back to WB Kellogg at Sta. 605+00.* *At Sta. 605+00, divert most EB Kellogg traffic to the new South Frontage Road; EB Kellogg traffic bound for NB K-96 continues east to use Ramp P.* *At South Frontage Road Sta. 1665+00, EB traffic is shifted north, across existing EB Kellogg to existing WB Kellogg, thence back to South Frontage Road at Sta. 1704+00.* *East of 159th Street, EB traffic is shifted to Ramp Z, thence to the 2 new lanes of EB Kellogg, thence back to existing EB Kellogg beyond end of project.* *Divert SB K-96 traffic bound for EB Kellogg to Ramp R, thence to Ramp S, thence to South Frontage Road.*	

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CITY OF WICHITA
EAST KELLOGG
CONSTRUCTION SEQUENCE
PHASE 2 (CONTINUED)

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	239	534

CONSTRUCTION SEQUENCE PHASE 3

SUB PHASE		CONSTRUCTION	TRAFFIC	REMARKS
A	Portions of Drainage Structures	*1. Construct south end of RCB Sta. 667+23.77, sufficient in length to allow construction of South Frontage Road without encroaching on existing traffic lanes.* *2. Construct south end of RCB Sta. 669+59.30, sufficient in length to allow construction of South Frontage Road without encroaching on existing WB Kellogg.* *3. Construct the south-center portion of the RCB at Sta. 687+82.78, sufficient to allow construction of South Frontage Road without encroaching existing existing WB Kellogg.* *4. Complete the CRP at K-96 Ramp R Sta. 10650+50.* *5. All other drainage structures necessary to complete construction of South Frontage Road from Sta. 1668+50 to 1704+00, and 143rd Street south of Kellogg.*	*Beginning traffic conditions: WB Kellogg traffic is now on the new North Frontage Road . EB Kellogg traffic is now on the South Frontage Road, except it is diverted to existing WB Kellogg between Stations 1665+00 and 1704+00. EB Kellogg traffic bound for NB K-96 continues on existing EB Kellogg to Ramp P. 143rd Street north of Kellogg is completed, 143rd Street traffic south of Kellogg continues 2-way on temporary pavement, and 143rd Street traffic crossing existing Kellogg between the frontage roads is still on temporary and existing pavement. 159th Street is now complete, except traffic crossing existing Kellogg between the frontage roads is still on temporary and existing pavement. WB traffic bound for NB K-96 is on the completed Ramp Q. SB K-96 traffic bound for EB Kellogg is on the partially completed Ramp R and new Ramp S.* *At Sta. 631+00, divert EB traffic bound for Ramp P to the north lane of existing EB Kellogg. Construct the southern lane of new EB Kellogg from Sta. 630+00 to Ramp P, and shift EB traffic bound for Ramp P onto it.* *Construct 143rd Street south of Kellogg half at a time, shifting traffic accordingly.* *Complete South Frontage Road from Sta. 1668+50 to 1704+00 and a temporary right turn lane to Stagecoach. At Sta. 1165+00, divert EB traffic to South Bound Frontage Road.*	*The temporary right turn lane at Stagecoach will be removed in Phase 4 after the main EB traffic is diverted from South Frontage Road to new EB Kellogg.* *Completion of this phase of the project results in the core area of the project between the frontage roads being open to construction.*
B	Part of new EB Kellogg serving Ramp P and NB K-96	*1. Remove the south lane of existing EB Kellogg from Sta. 631+00 to Sta. 640+90.* *a. Temporarily pave a 4 foot shoulder along the south side of remaining lane.* *2. Construct the outside lane of New EB Kellogg from Sta. 631+00 to Ramp P.* *a. Temporarily pave a 4 foot shoulder along the north side of the new pavement.*		
C	South Frontage Road and south 143rd Street completion	*1. Temporarily widen 143rd Street south of Kellogg to the east, and divert 2-way traffic onto it.* *2. Construct South Frontage Road from Sta. 1668+50 to 143rd Street, temporarily omitting the inside lanes on the approach to 143rd Street for bridge construction.* *3. Construct the western portion of 143rd Street south of Kellogg and temporarily widen to match existing number of lanes.* *4. Divert 2-way traffic on 143rd Street south of Kellogg to the new western lanes.* *5. Construct the eastern part of 143rd Street south of Kellogg.* *6. Construct South Frontage Road from 143rd Street to Sta. 1704+00.* *a. At the approach to Stagecoach, temporarily omit curb & gutter and construct temporary paving for a right turn lane, without conflicting with Retaining Wall J.*		

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CITY OF WICHITA
EAST KELLOGG
CONSTRUCTION SEQUENCE
PHASE 3

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	240	534

CONSTRUCTION SEQUENCE PHASE 4

SUB PHASE		CONSTRUCTION	TRAFFIC	REMARKS
A	Mainline Kellogg Bridges, Initial Mainline Storm Drainage, and Initial MSE Wall Construction	1. Complete RCB Sta. 667+23.77. 2. Complete RCB Sta. 669+59.30. 3. Complete the RCB at Sta. 682+82.78. 4. Complete the RCB at Sta. 746+72.83, Green Valley Tributary. 5. Construct Bridge Sta. 660+15.51, mainline Kellogg over Spring Branch Tributary No. 4 a. Construct portions of Retaining Walls B and D, and the storm sewer system as necessary to complete the abutments of Bridge Sta. 660+15.51. 6. Construct Bridge Sta. 720+31.00, mainline Kellogg over Fourmile Creek a. Construct portions of Retaining Walls K, L and M, and portions of the storm sewer system as necessary to complete the abutments of Bridge Sta. 720+31.00. 7. Construct Bridge Sta. 680+11.13, mainline Kellogg over 143rd Street a. Construct portions of Retaining Walls C, D, E, F, G and H, and portions of the storm sewer system as necessary to complete the abutments of Bridge Sta. 680+11.13. 8. Construct Bridge Sta. 732+84.76, mainline Kellogg over Brookhaven Creek and 159th Street. a.Construct portions of Retaining Walls L, M, N, P, Q and R, and portions of the storm sewer system as necessary to complete the abutments of Bridge Sta. 732+84.76. 9. Complete portions of the storm sewer system, electrical conduits and other underground utilities necessary for proceeding with retaining walls and grading.	Beginning traffic conditions: WB Kellogg traffic is now on the new North Frontage Road . EB Kellogg traffic is now on the new South Frontage Road. K-96 traffic is on the new ramps. 143rd and 159th Streets are now complete, except traffic crossing existing Kellogg between the frontage roads is still on temporary and existing pavement. At the west end of the project, one lane on new EB Kellogg is complete and carrying traffic to Ramp P and NB K-96. At the east end of the project, from Sta. 744+50 to Sta. 752+20, the two outer EB lanes and two outer WB lanes of new Kellogg are completed and carrying traffic. Cross traffic at 143rd Street and 159th Street is to be carried through construction using temporary pavement. During erection of bridge girders and other brief periods where safety dictates, construct temporary crossings proximate to the bridges using Temporary Surfacing Material.	The SWPPP shall included designated points of ingress and egress for construction vehicles during Phase 4 construction. These shall be equipped with temporary stabilized construction entrances designed to remove dirt and mud from tire treads as trucks leave the construction zone, and new curb and gutter will be temporarily omitted to accommodate them. These shall be supplemented with additional BMPs, traffic controls, flaggers and street cleaning as necessary for pollution prevention and traffic safety through all phases of construction.
B	Subgrade Base Construction	1. Continue with construction of MSE walls and storm sewer system up to subgrade elevation, plus any electrical conduits and other utilities. 2. Mainline roadway and ramp base construction: 6" lime treated subgrade / 4" cement treated base. 3. Continue storm sewer construction and all other preparations for concrete paving.		
C	Mainline Kellogg and Ramps Concrete Paving	1. Concrete paving - mainline Kellogg and all ramps - plus all pavement coring, smoothness testing and corrections necessary for acceptance. 2. Bridge approach slabs, wall copings and concrete safety barriers. 3. Guardrails, impact attenuators, signage, pavement markings and all other preparations necessary to release traffic onto mainline Kellogg. 4. Divert the main EB and WB traffic onto new mainline Kellogg.	Upon completion of mainline Kellogg paving and accessory items, place EB and WB traffic from the frontage roads on mainline Kellogg.	Plan press release well in advance of shifting EB and WB frontage road traffic onto new mainline Kellogg.
D	Project Completion	1. Complete 143rd Street and 159th Street between the frontage roads. 2. Complete the turn lanes, curb & gutter, entrances, sidewalks, pavement markings, signals, signage, and all other work associated with the frontage roads. 3. Complete fencing, seeding, sodding, landscaping, lighting, punchlist items and final cleanup for project acceptance.	Complete 143rd Street, 159th Street, North Frontage Road, South Frontage Road, and all other items under traffic.	

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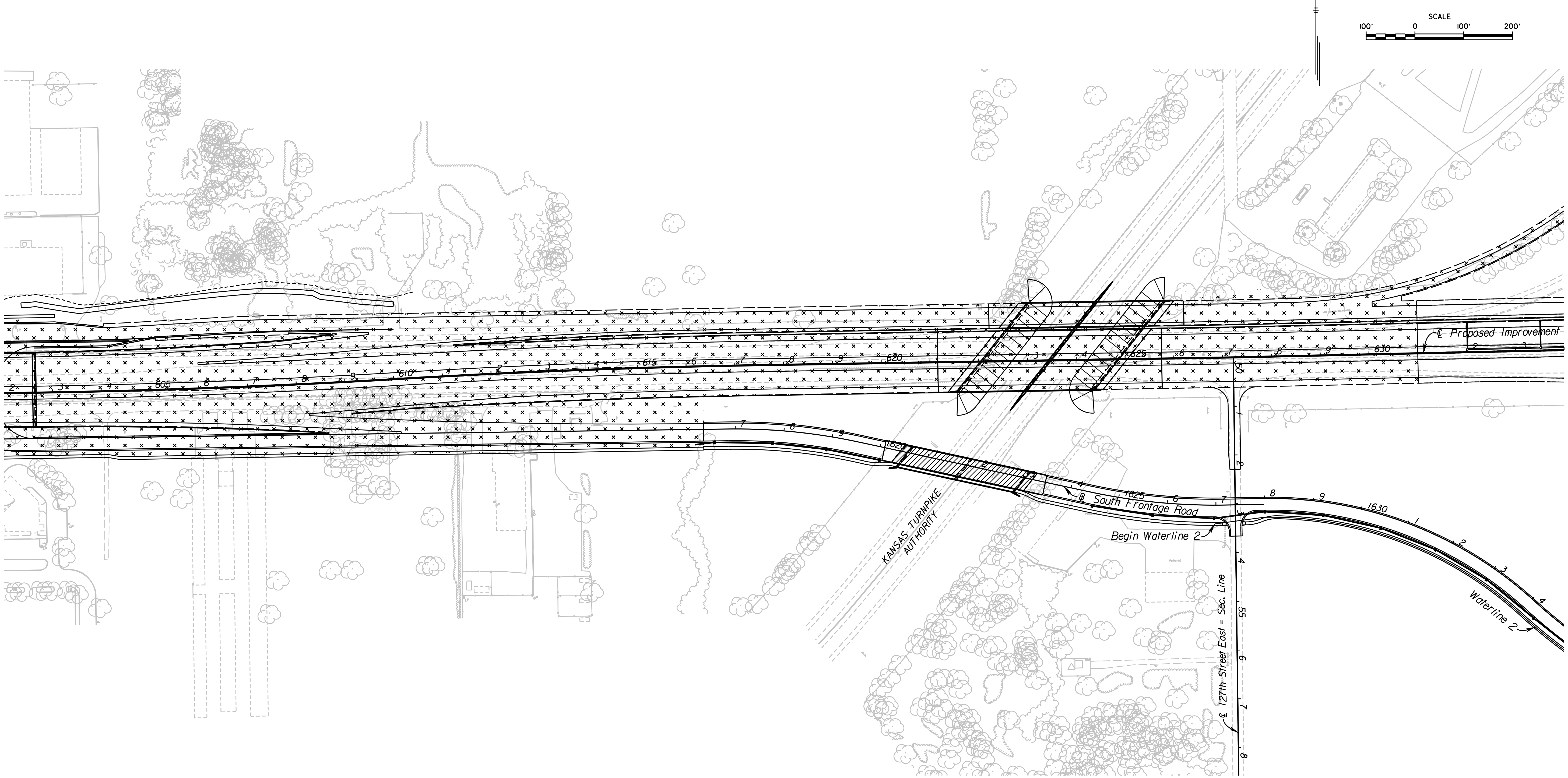
CITY OF WICHITA
EAST KELLOGG
CONSTRUCTION SEQUENCE
PHASE 4

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	241	534

▨ Phase I Construction

■ Temporary Paving



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SURV.	-	PLOT	CADD	DES.	-	DR.	-	TR.	-	CKD.	-	APP.	-

CITY OF WICHITA

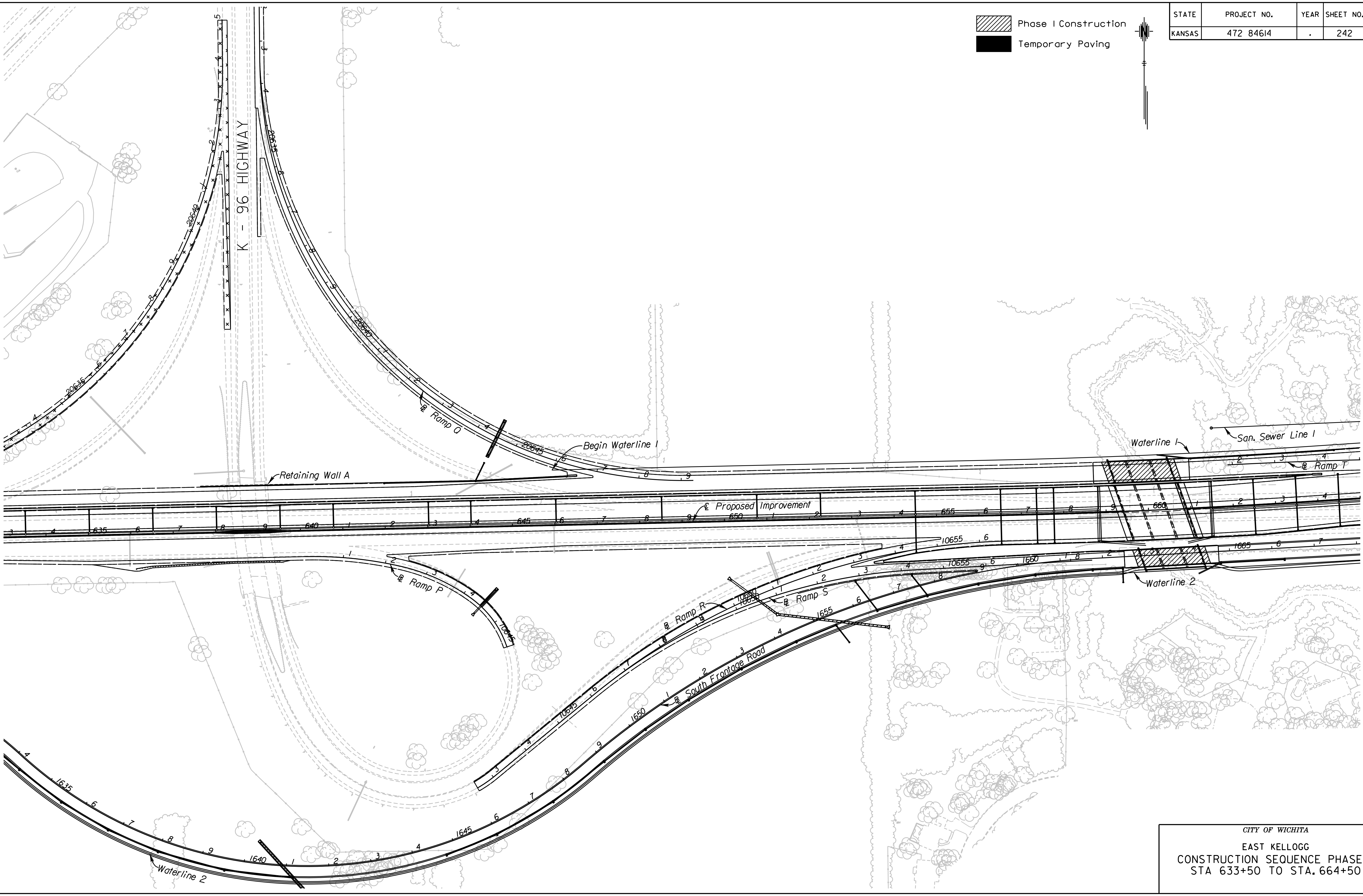
EAST KELLOGG

CONSTRUCTION SEQUENCE PHASE I
STA 602+50 TO STA. 633+50

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	242	534

▨ Phase 1 Construction

■ Temporary Paving



CITY OF WICHITA

EAST KELLOGG

CONSTRUCTION SEQUENCE PHASE 1

STA 633+50 TO STA. 664+50

SURV. - PLOT CADD DES. - DR. - TR. - CKD. - APP. -

9:10:26 AM
2/9/2011
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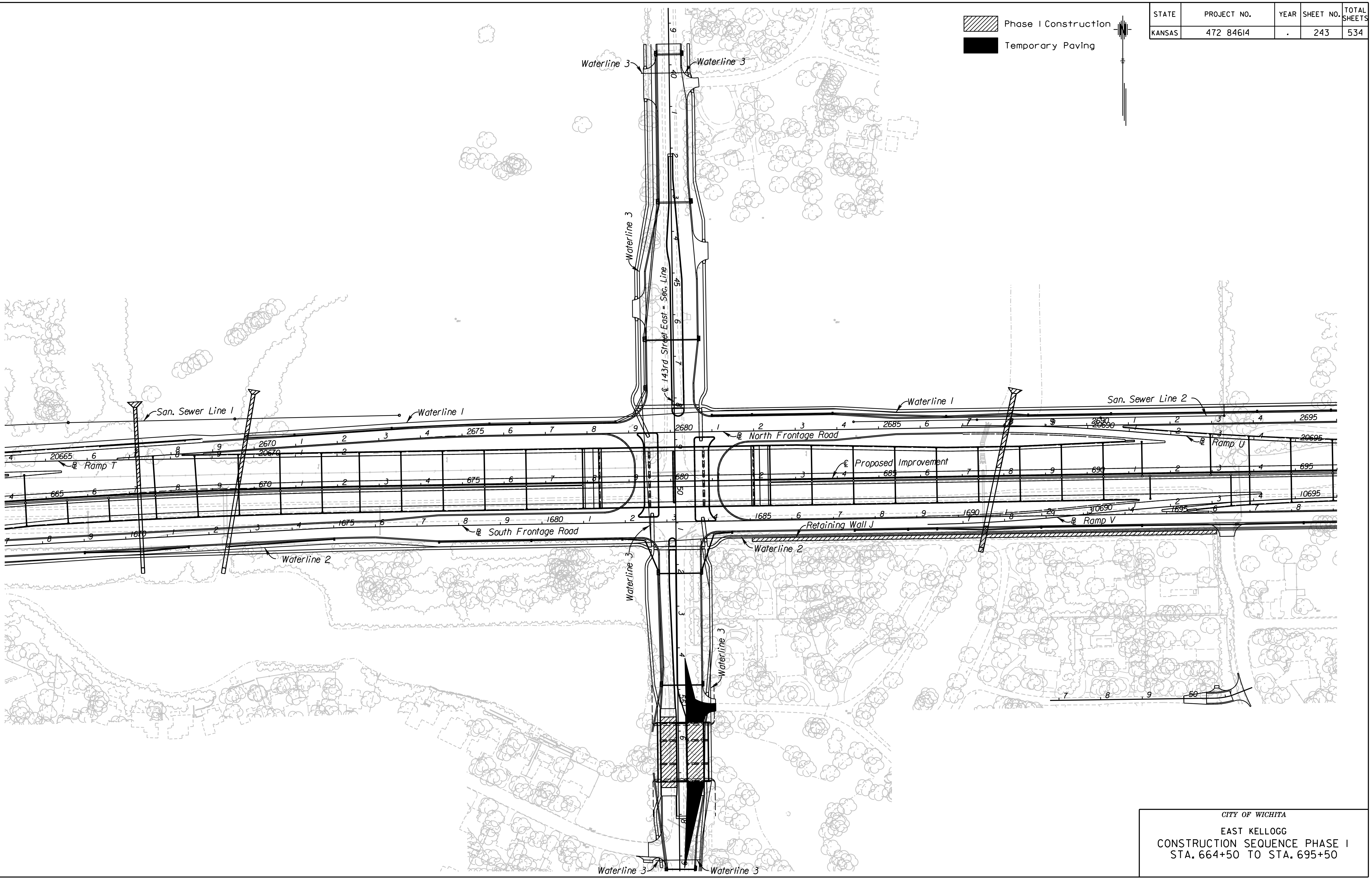
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	243	534

▨ Phase I Construction

■ Temporary Paving



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SURV.	-	PLOT	CADD	DES.	-	DR.	-	TR.	-	CKD.	-	APP.	-

CITY OF WICHITA

EAST KELLOGG

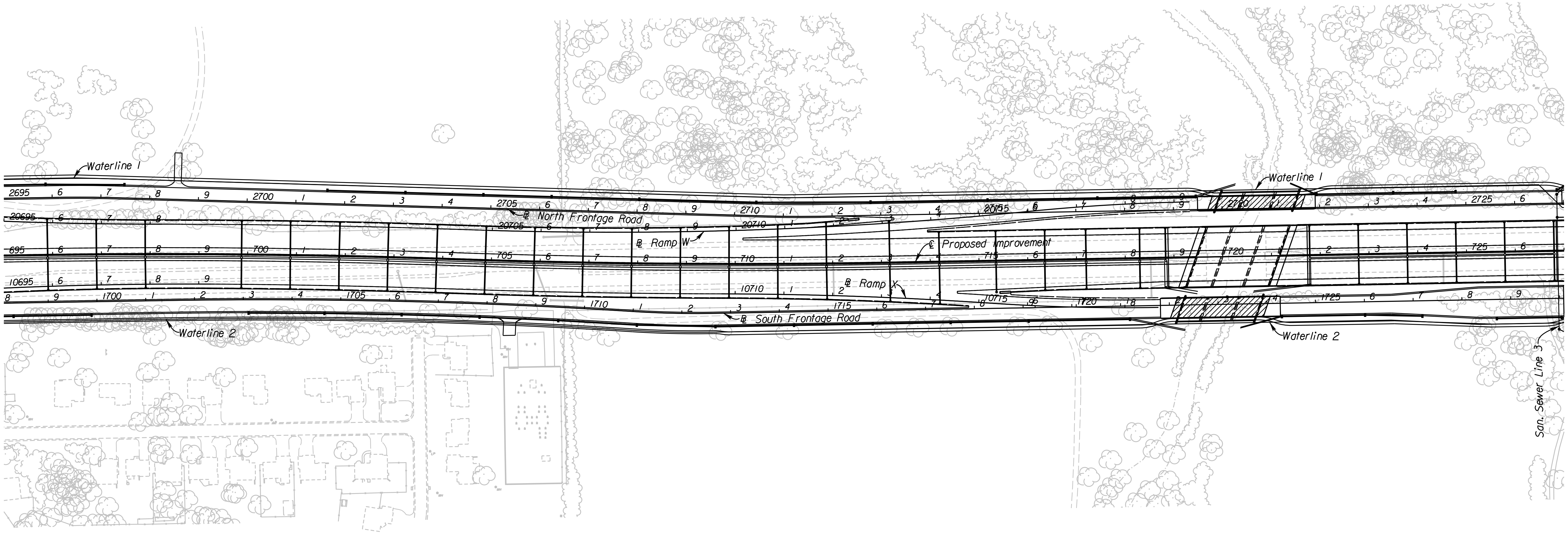
CONSTRUCTION SEQUENCE PHASE I

STA. 664+50 TO STA. 695+50

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	244	534

▨ Phase 1 Construction

■ Temporary Paving



CITY OF WICHITA

EAST KELLOGG

CONSTRUCTION SEQUENCE PHASE I

STA. 695+50 TO STA. 726+50

9:10:47 AM
2/9/2011
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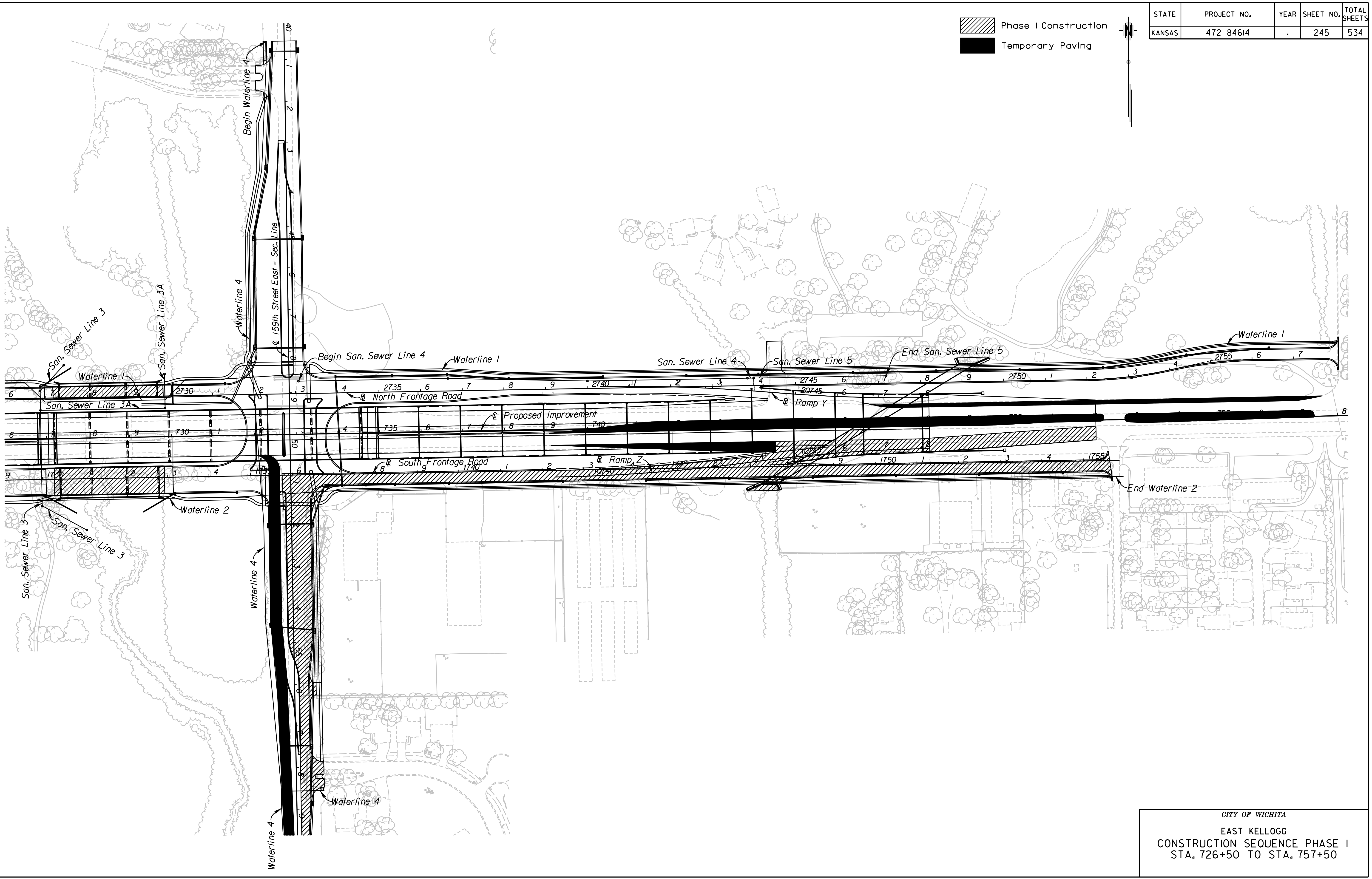
SURV. - PLOT - CADD DES. - DR. - TR. - CKD. - APP. -

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	245	534

▨ Phase I Construction

■ Temporary Paving



CITY OF WICHITA

EAST KELLOGG

CONSTRUCTION SEQUENCE PHASE I

STA. 726+50 TO STA. 757+50

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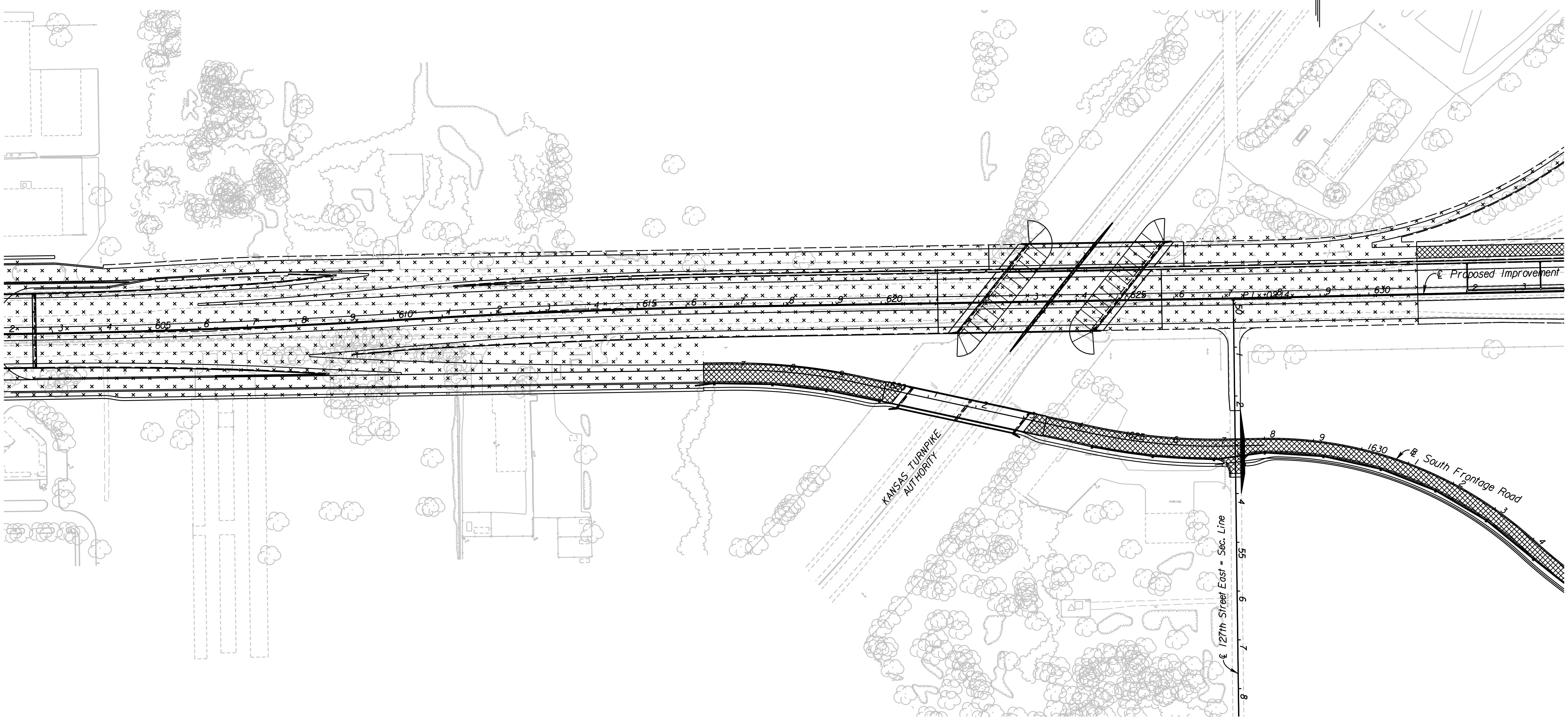
SURV.	-	PLOT	CADD	DES.	-	DR.	-	TR.	-	CKD.	-	APP.	-

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	246	534

▨ Phase 2 Construction

■ Temporary Paving



CITY OF WICHITA

EAST KELLOGG

CONSTRUCTION SEQUENCING PHASE 2
STA 602+50 TO STA. 633+50

9:11:10 AM
2/9/2011
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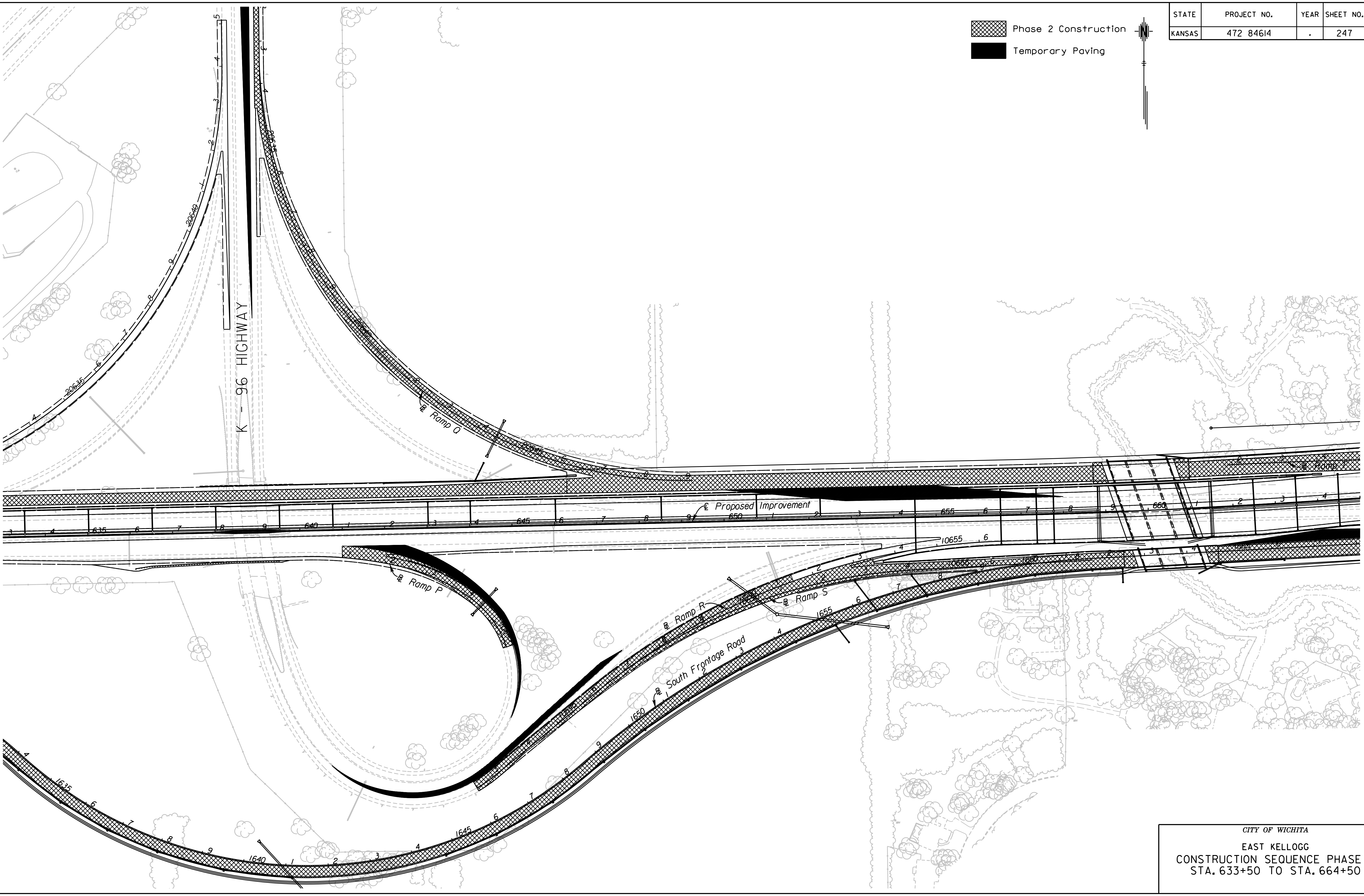
SURV.	-	PLOT	CADD	DES.	-	DR.	-	TR.	-	CKD.	-	APP.	-

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	247	534

▨ Phase 2 Construction

■ Temporary Paving



CITY OF WICHITA

EAST KELLOGG

CONSTRUCTION SEQUENCE PHASE 2

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2/9/2011
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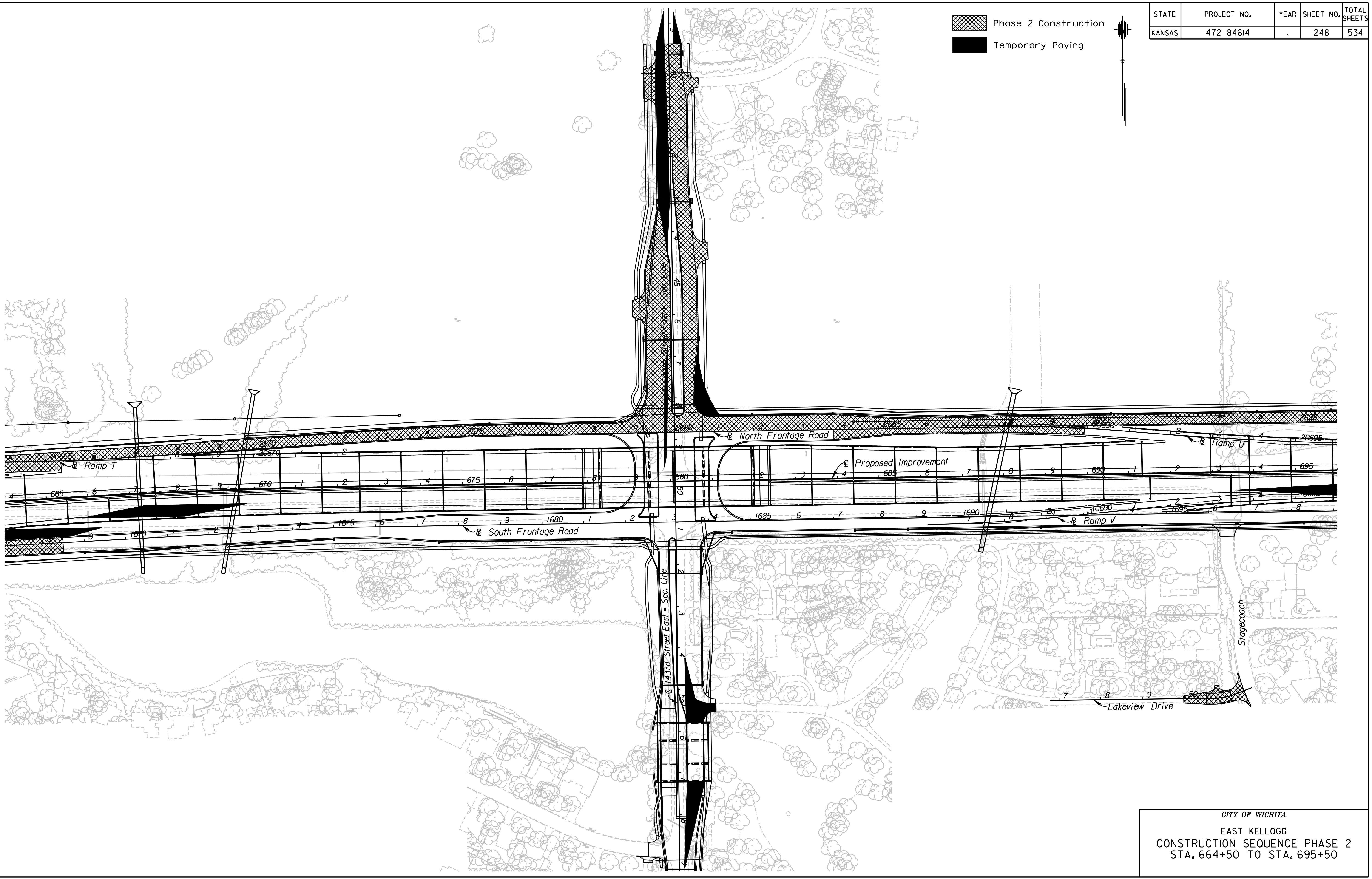
SURV.	-	PLOT	CADD	DES.	-	DR.	-	TR.	-	CKD.	-	APP.	-

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	248	534

▨ Phase 2 Construction

■ Temporary Paving



CITY OF WICHITA

EAST KELLOGG

CONSTRUCTION SEQUENCE PHASE 2
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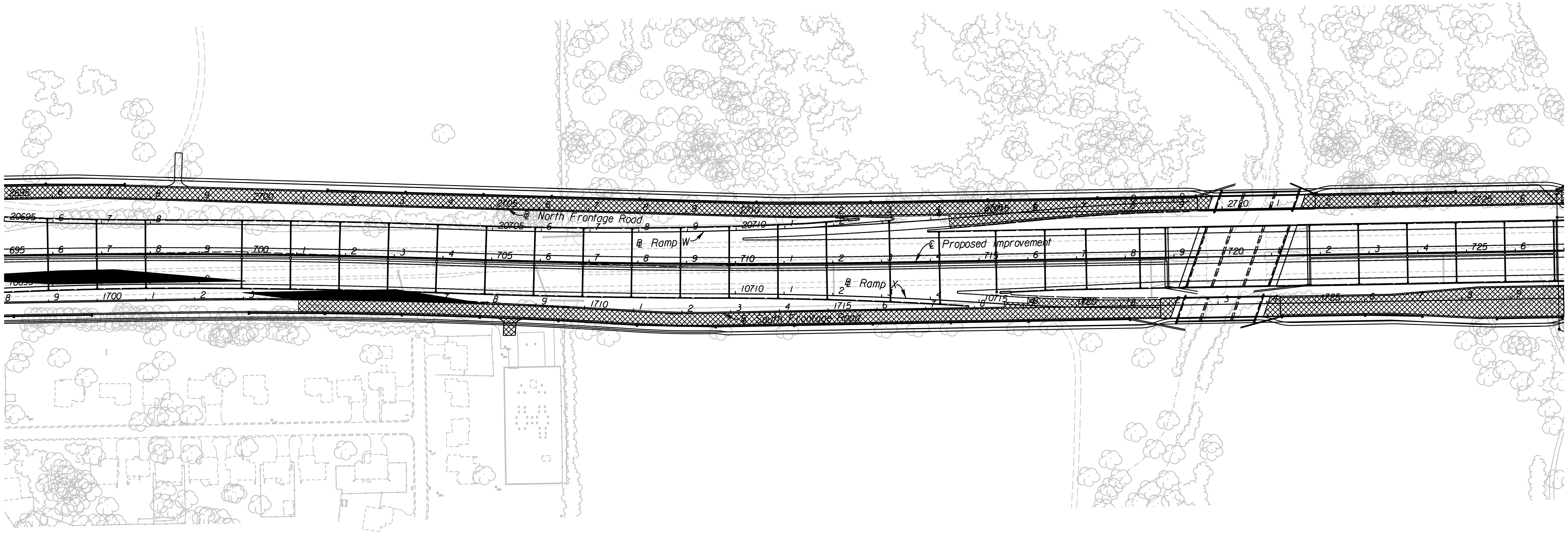
SURV.	-	PLOT	CADD	DES.	-	DR.	-	TR.	-	CKD.	-	APP.	-

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	249	534

▨ Phase 2 Construction

■ Temporary Paving



CITY OF WICHITA

EAST KELLOGG

CONSTRUCTION SEQUENCE PHASE 2

STA. 695+50 TO STA. 726+50

SURV.	-	PLOT	-	CADD DES.	-	DR.	-	TR.	-	CKD.	-	APP.	-

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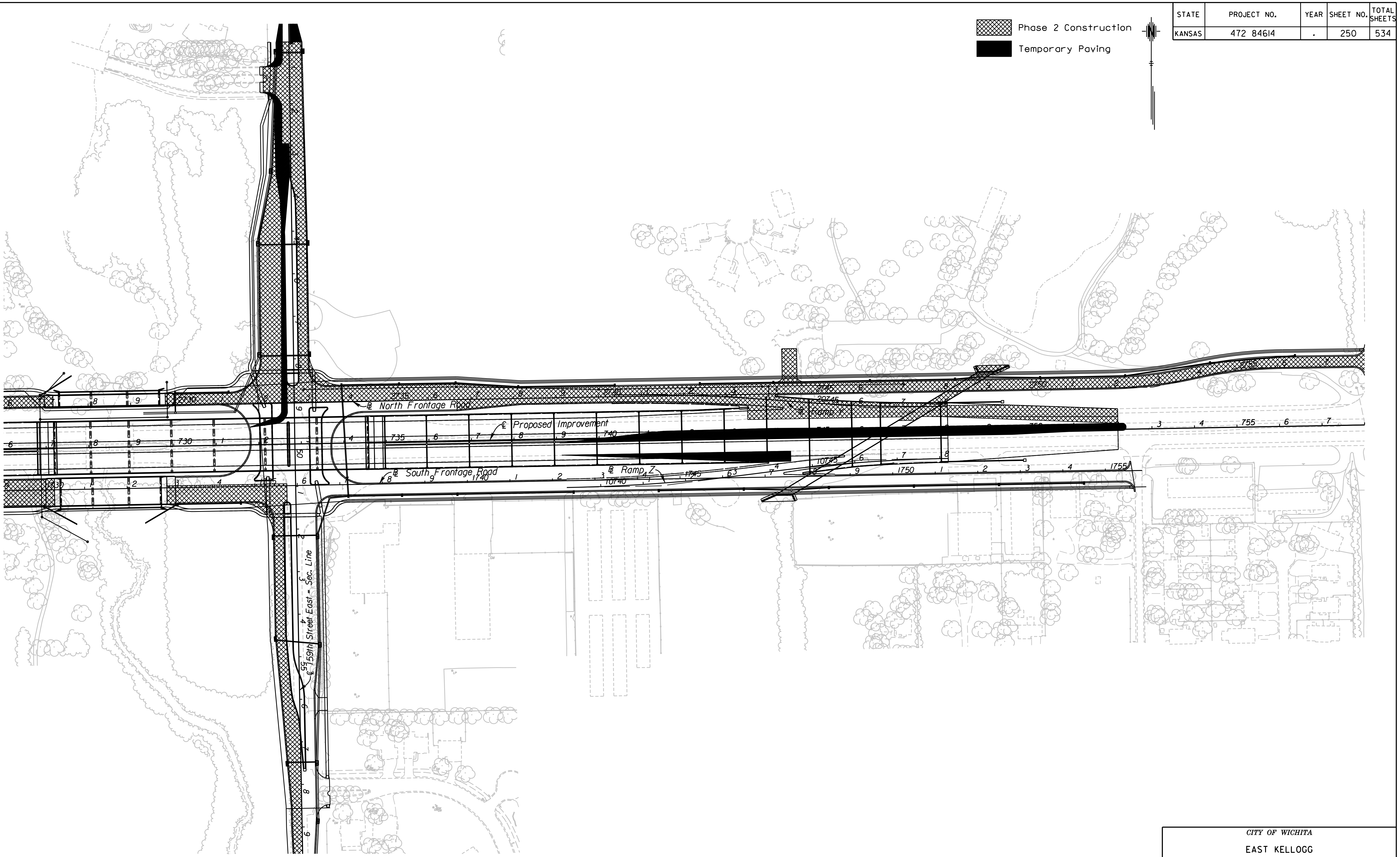
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	250	534

▨ Phase 2 Construction

■ Temporary Paving



CITY OF WICHITA

EAST KELLOGG

CONSTRUCTION SEQUENCE PHASE 2

STA. 726+50 TO STA. 757+50

9:11:51 AM
2/9/2011
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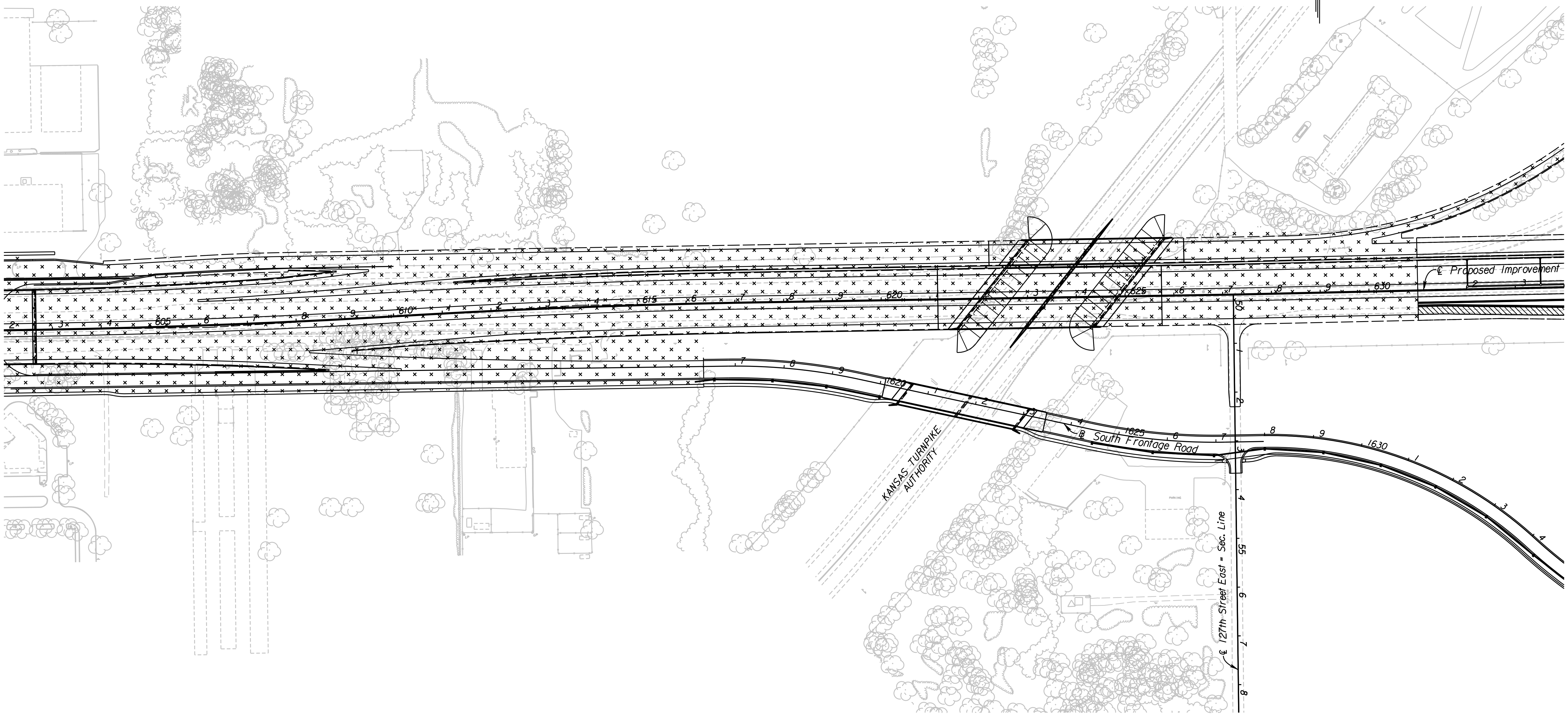
SURV.	-	PLOT	-	CADD	DES.	-	DR.	-	TR.	-	CKD.	-	APP.	-

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	251	534

▨ Phase 3 Construction

■ Temporary Paving



CITY OF WICHITA

EAST KELLOGG

CONSTRUCTION SEQUENCE PHASE 3
STA. 602+50 TO STA. 633+50

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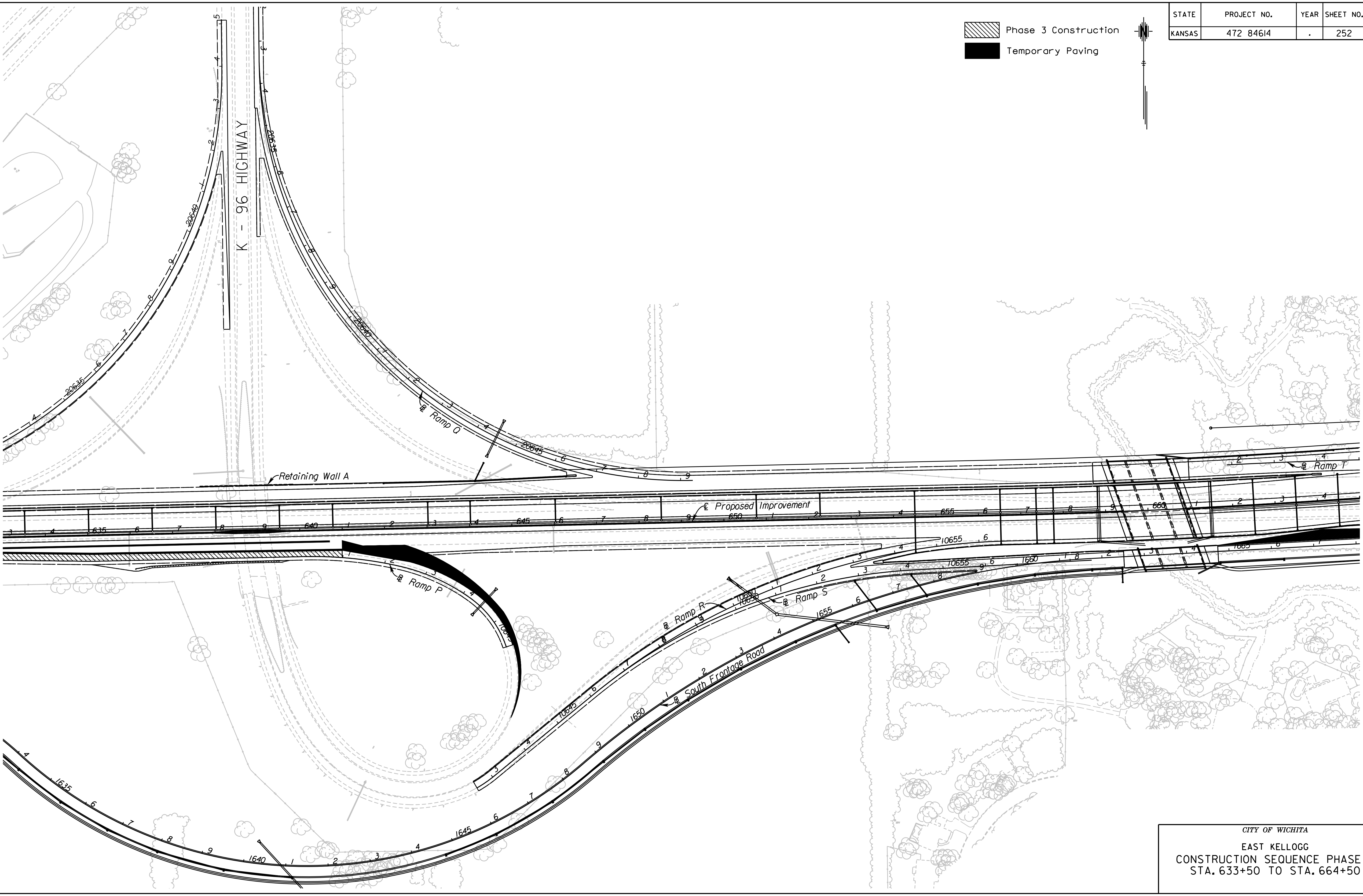
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	252	534

▨ Phase 3 Construction

■ Temporary Paving



CITY OF WICHITA

EAST KELLOGG

CONSTRUCTION SEQUENCE PHASE 3

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2/9/2011
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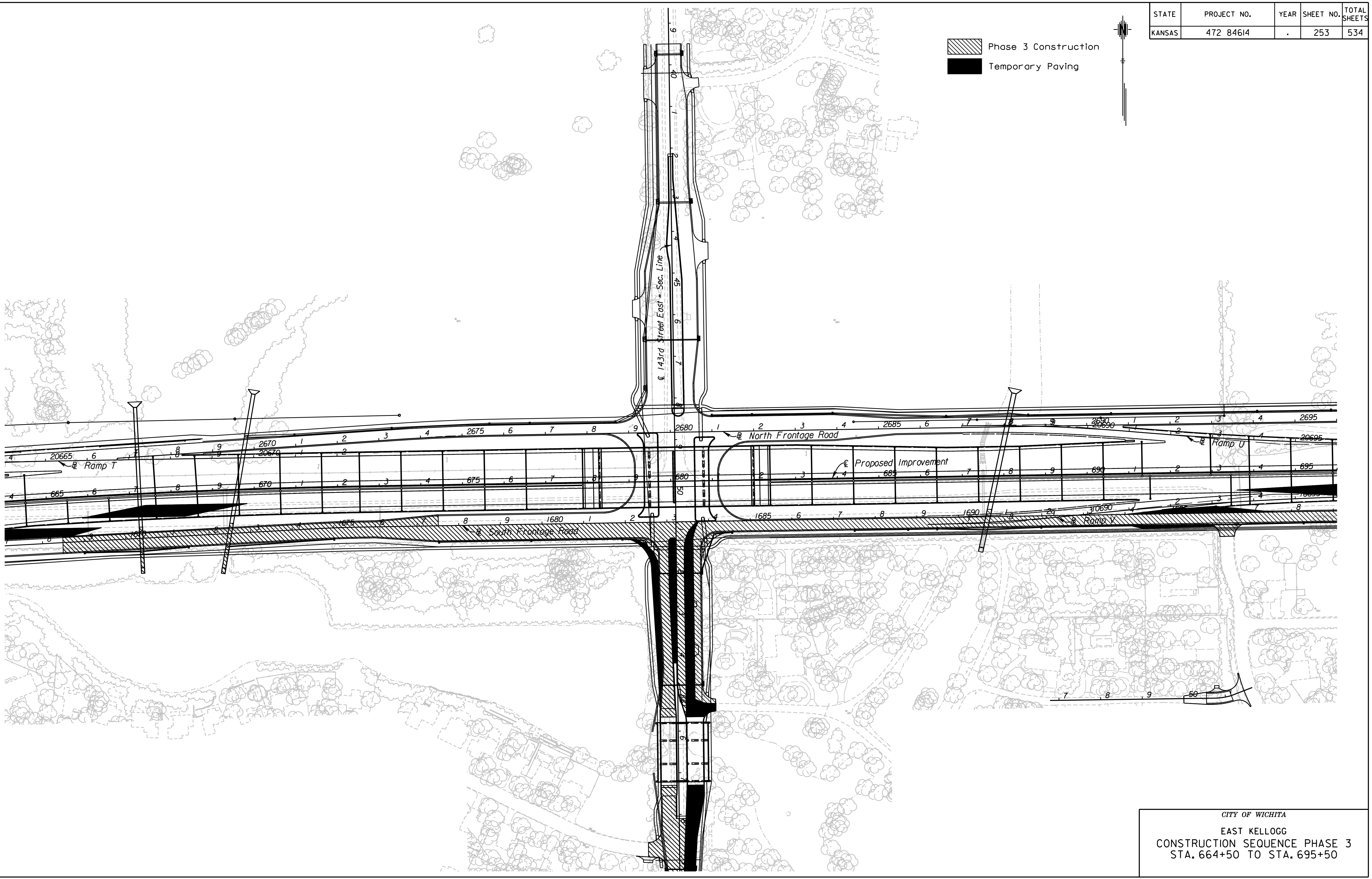
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	253	534

▨ Phase 3 Construction

■ Temporary Paving



CITY OF WICHITA

EAST KELLOGG

CONSTRUCTION SEQUENCE PHASE 3
STA. 664+50 TO STA. 695+50

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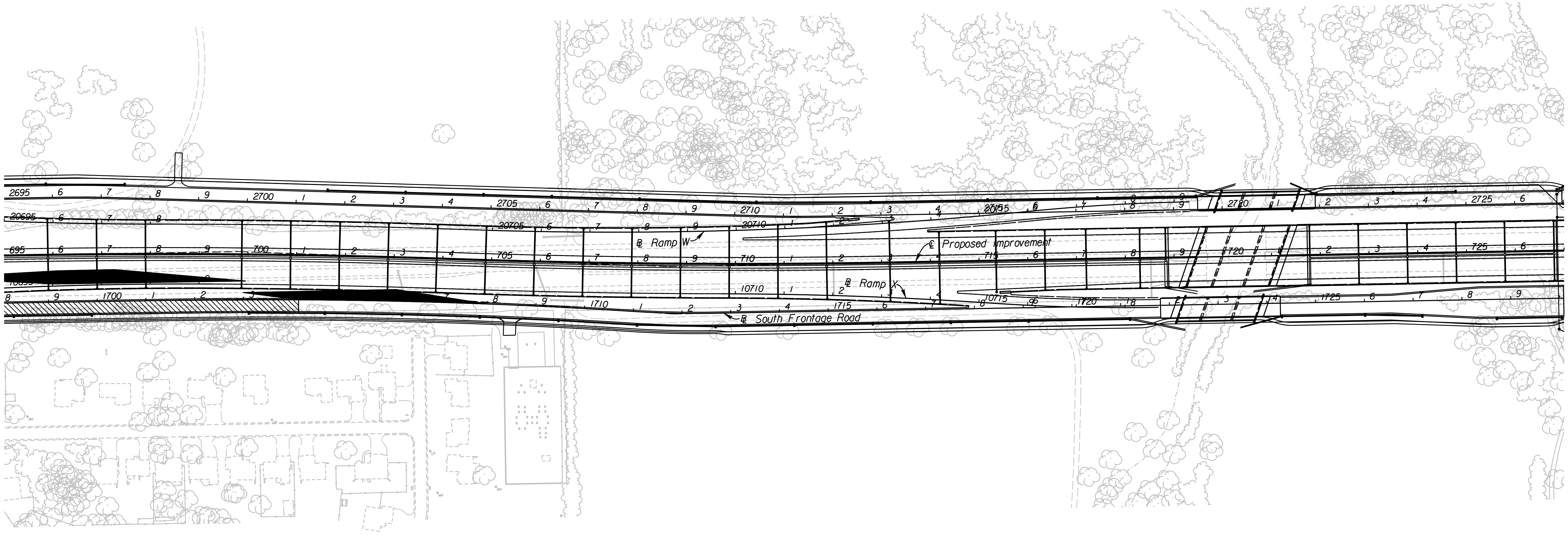
SURV.	-	PLOT	CADD	DES.	-	DR.	-	TR.	-	CKD.	-	APP.	-

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	254	534

▨ Phase 3 Construction

■ Temporary Paving



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SURV.	-	PLOT	CADD	DES.	-	DR.	-	TR.	-	CKD.	-	APP.	-

CITY OF WICHITA

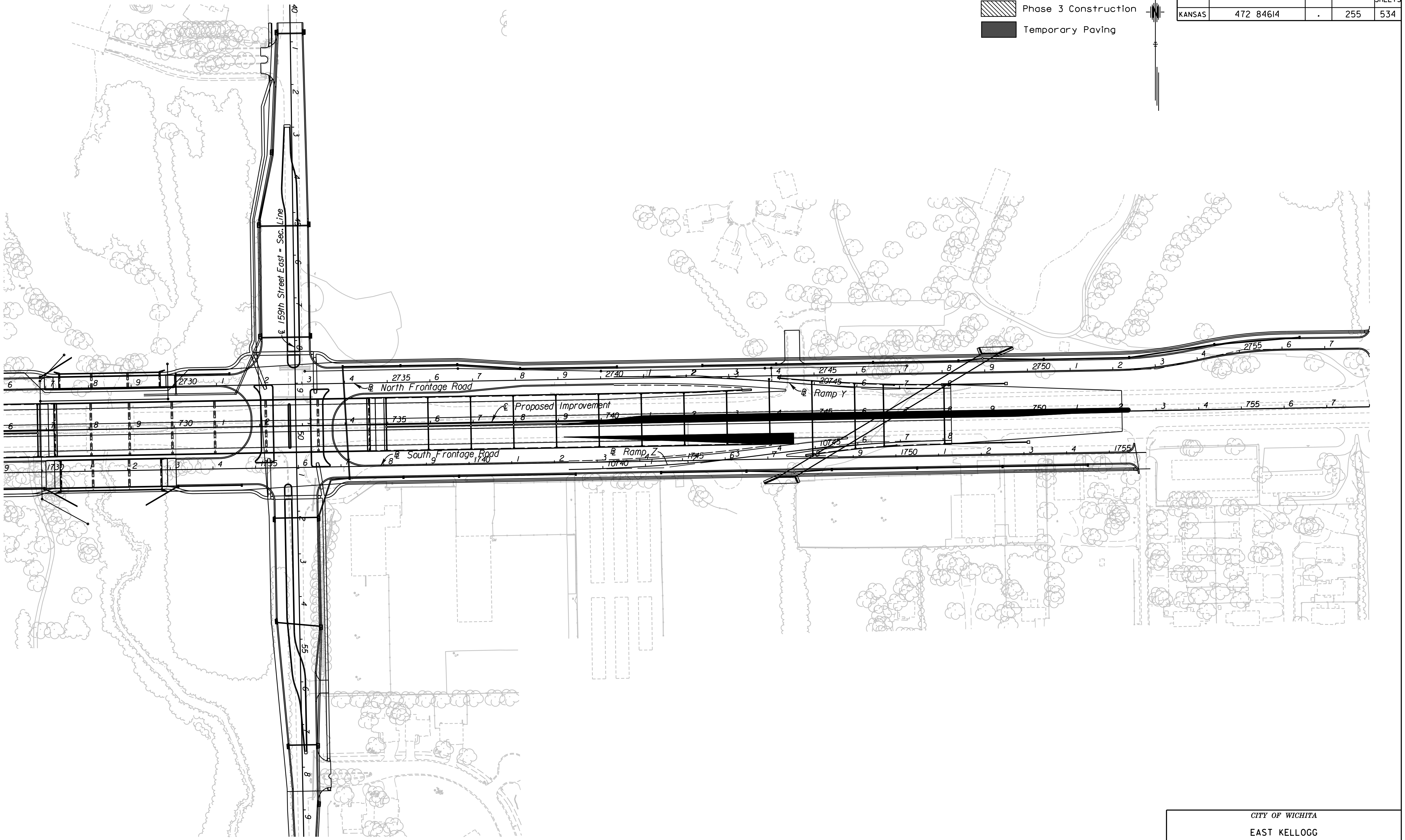
EAST KELLOGG

CONSTRUCTION SEQUENCE PHASE 3
STA. 695+50 TO. STA. 726+50

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	255	534

▨ Phase 3 Construction

■ Temporary Paving



CITY OF WICHITA

EAST KELLOGG

CONSTRUCTION SEQUENCE PHASE 3

STA. 726+50 TO STA. 757+50

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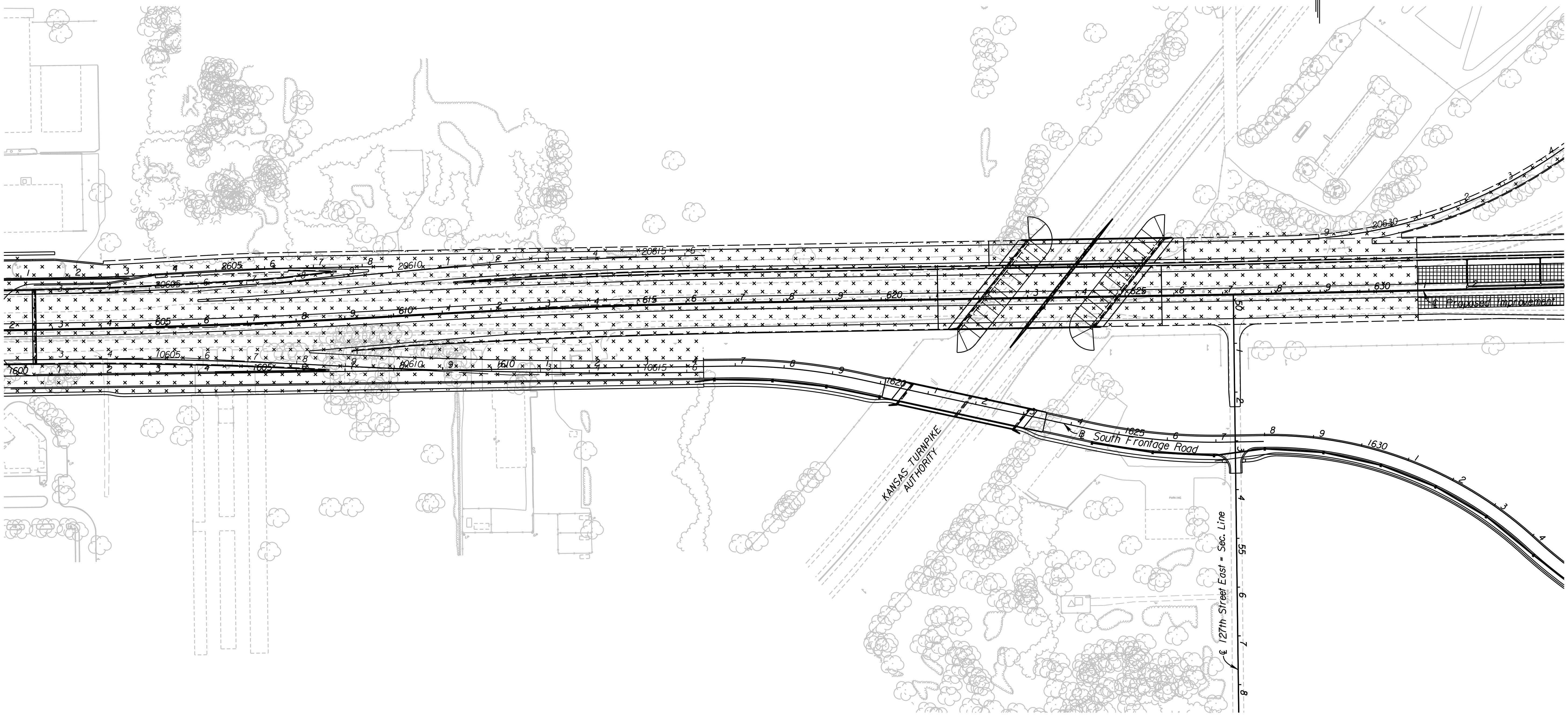
SURV. -	PLOT	CADD	DES. -	DR. -	TR. -	CKD. -	APP. -

▦ Phase 4 Construction

■ Temporary Paving

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	256	534



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SURV.	-	PLOT	CADD	DES.	-	DR.	-	TR.	-	CKD.	-	APP.	-

CITY OF WICHITA

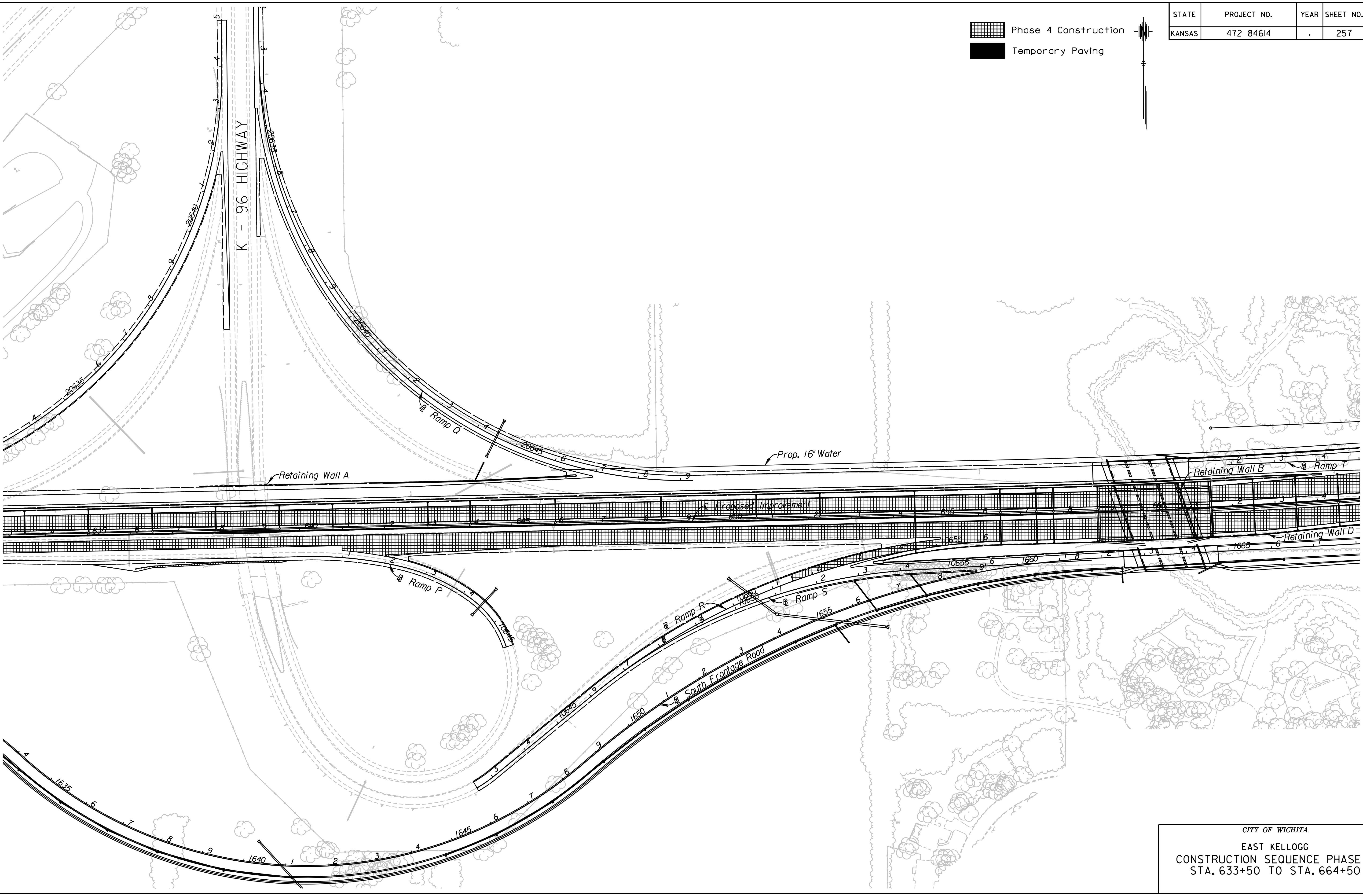
EAST KELLOGG

CONSTRUCTION SEQUENCE PHASE 4
STA. 602+50 TO STA. 633+50

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	257	534

▦ Phase 4 Construction

■ Temporary Paving



CITY OF WICHITA

EAST KELLOGG
CONSTRUCTION SEQUENCE PHASE 4
STA. 633+50 TO STA. 664+50

9:13:11 AM
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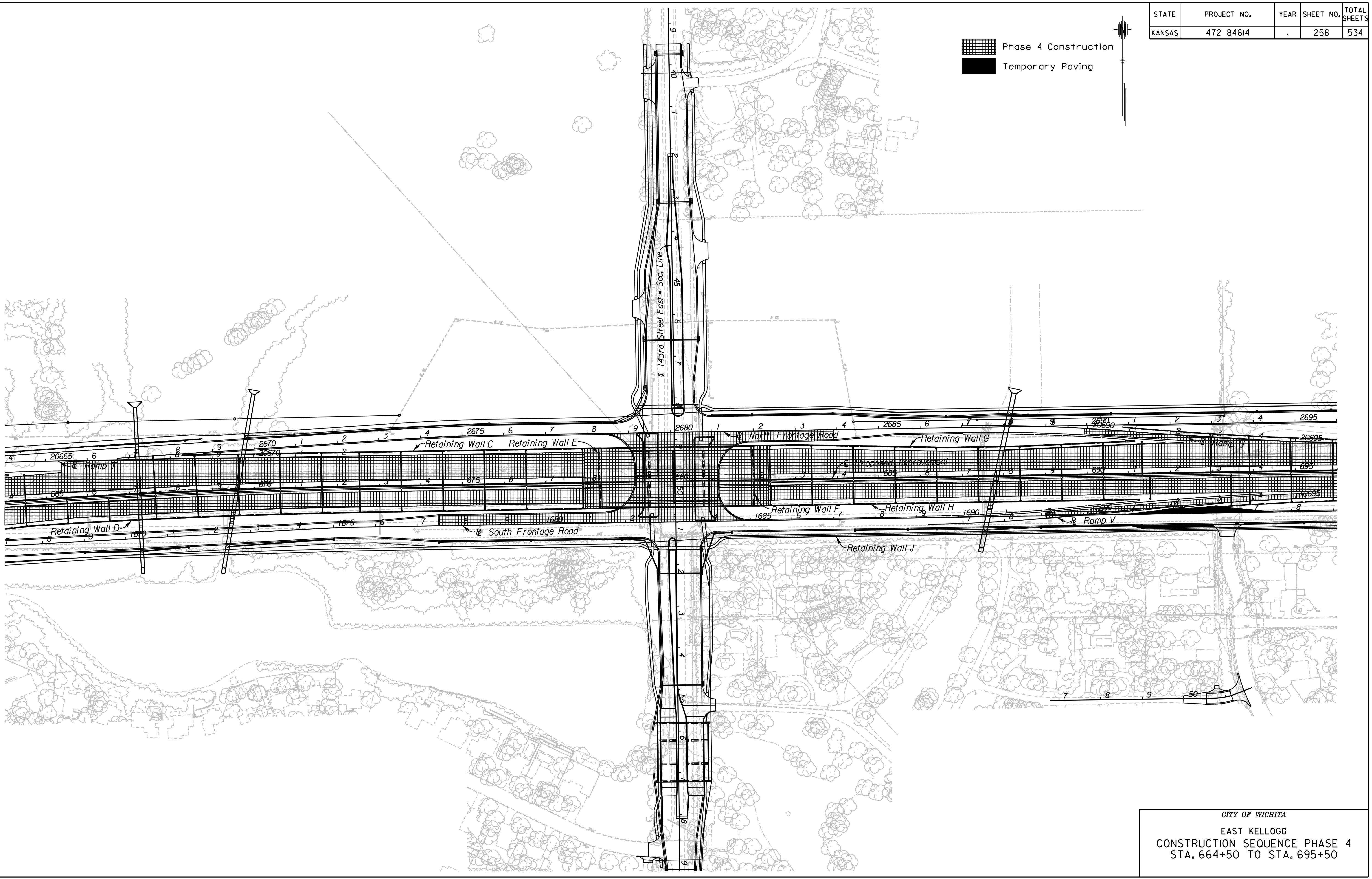
SURV.	-	PLOT	-	CADD	DES.	-	DR.	-	TR.	-	CKD.	-	APP.	-

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	258	534

▦ Phase 4 Construction

■ Temporary Paving



CITY OF WICHITA

EAST KELLOGG

CONSTRUCTION SEQUENCE PHASE 4

STA. 664+50 TO STA. 695+50

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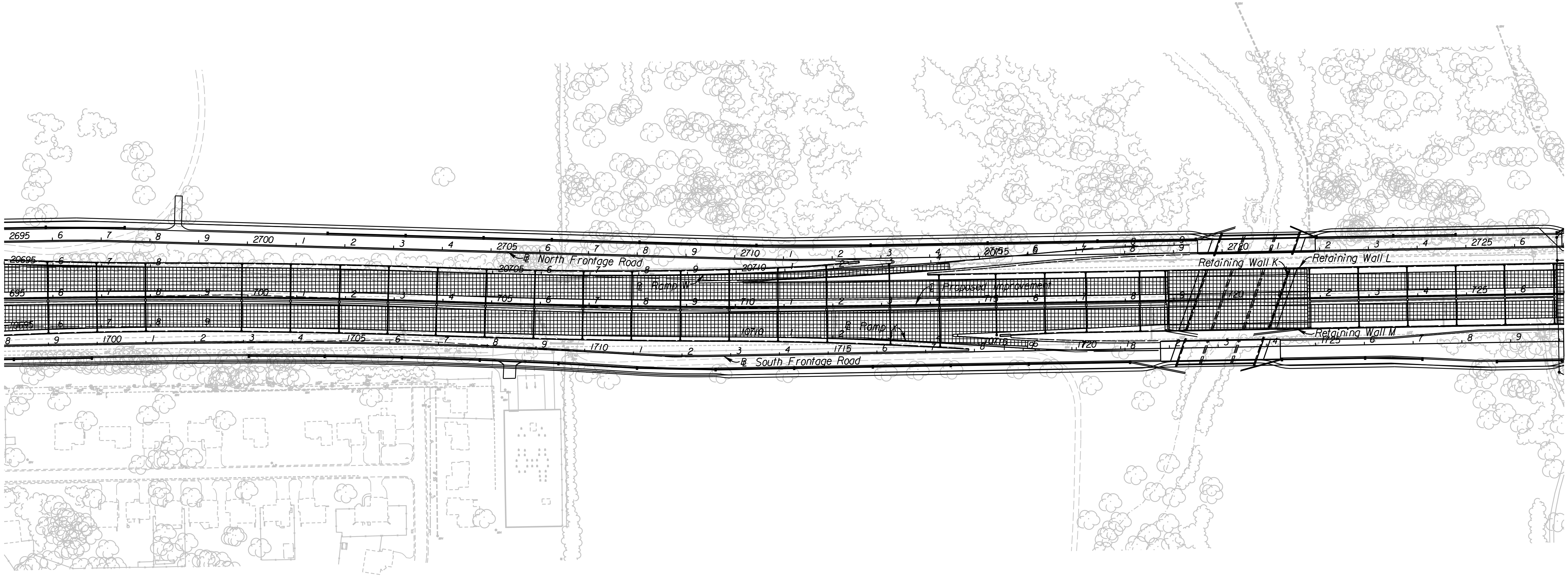
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	259	534

▦ Phase 4 Construction

■ Temporary Paving



CITY OF WICHITA

EAST KELLOGG

CONSTRUCTION SEQUENCE PHASE 4
STA. 695+50 TO STA. 726+50

9:13:32 AM
2/9/2011
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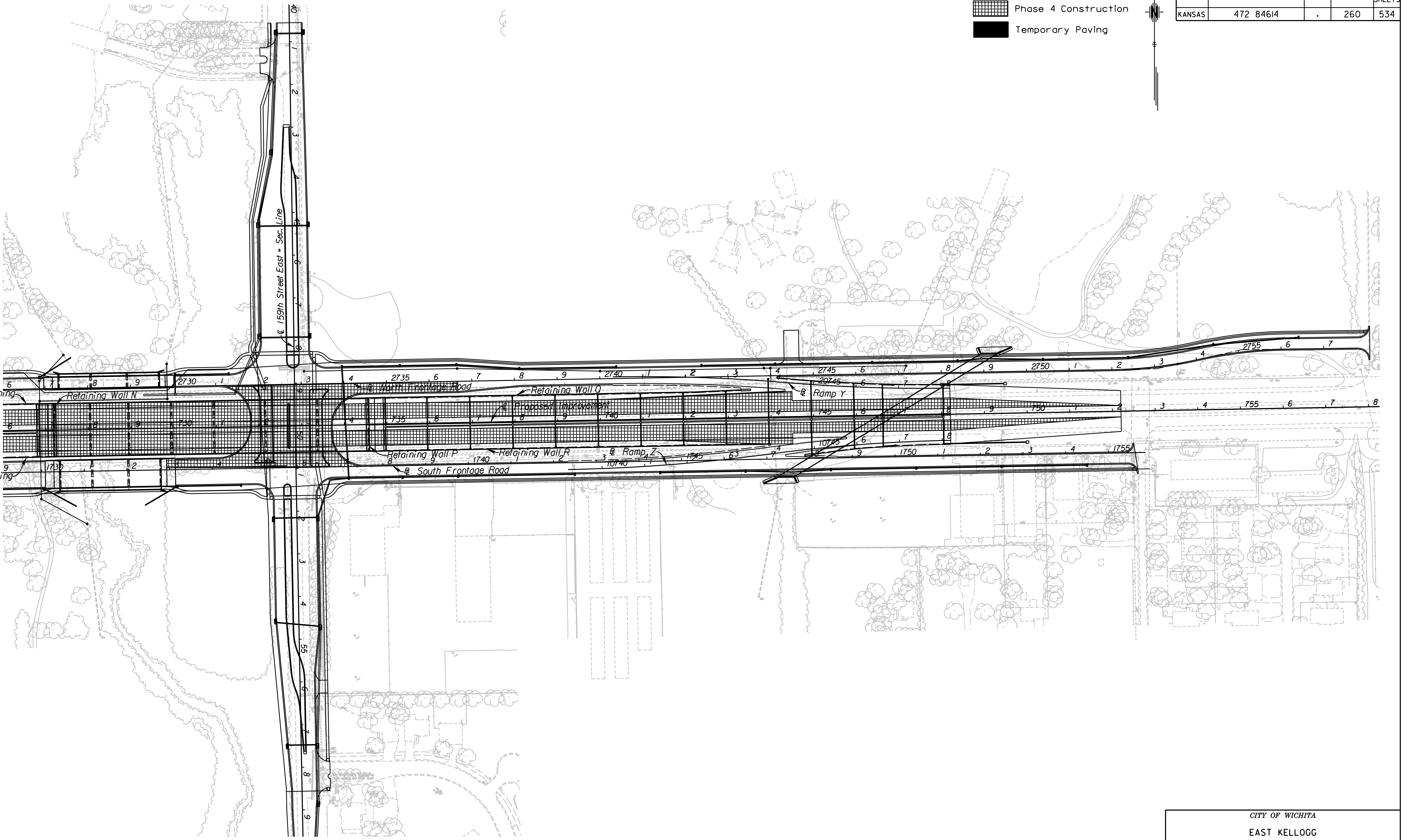
SURV.	-	PLOT	CADD	DES.	-	DR.	-	TR.	-	CKD.	-	APP.	-

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	260	534

▦ Phase 4 Construction

■ Temporary Paving



CITY OF WICHITA

EAST KELLOGG

CONSTRUCTION SEQUENCE PHASE 4
STA. 726+50 TO STA. 757+50

9:13:42 AM
2/9/2011
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SURV.	PLOT	CADD	DES.	DR.	TR.	CKD.	APP.
-	-	-	-	-	-	-	-

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	:	261	534

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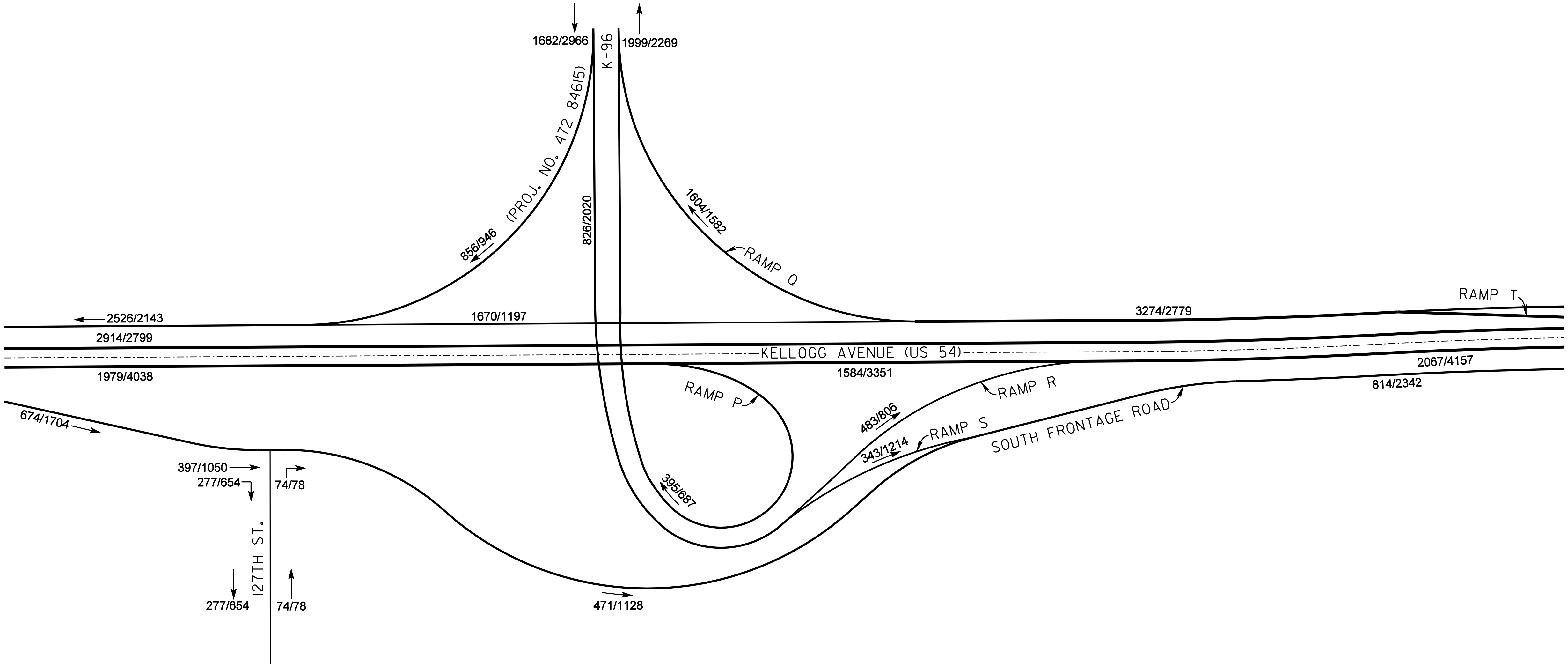

PROJECTED 2040 PEAK HOUR (AM/PM) TRAFFIC VOLUMES

CITY OF WICHITA

EAST KELLOGG

TRAFFIC VOLUMES

10:55:07 AM
2/9/2011
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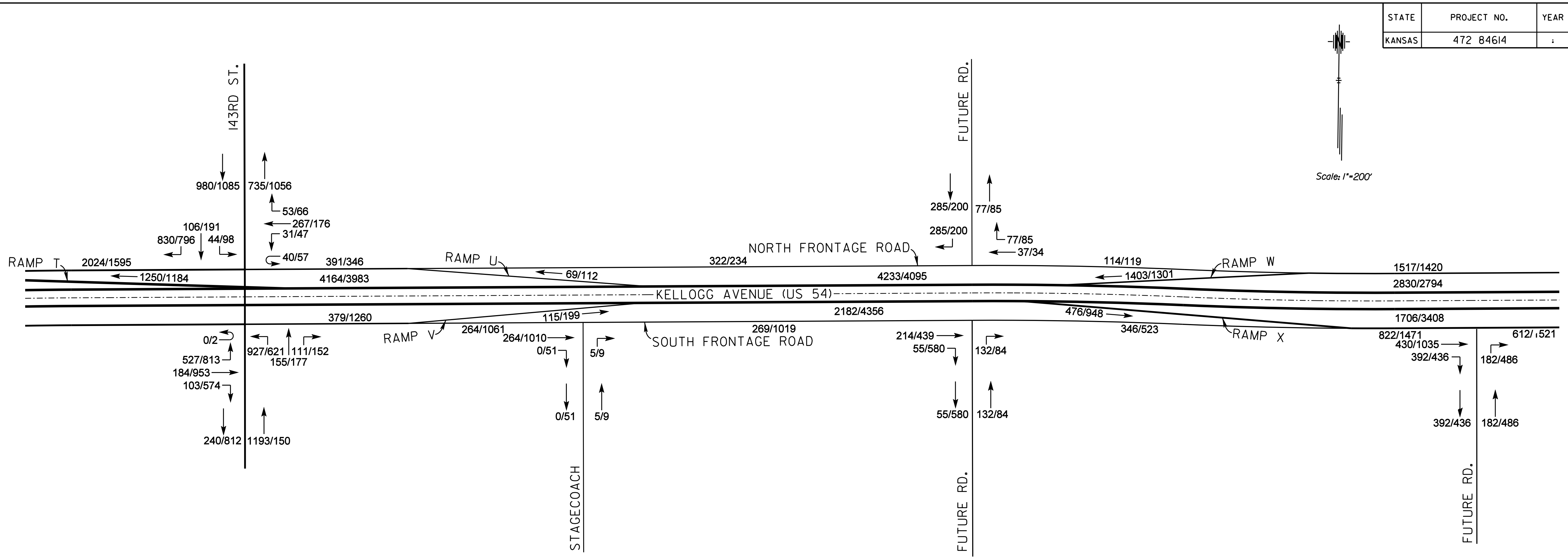
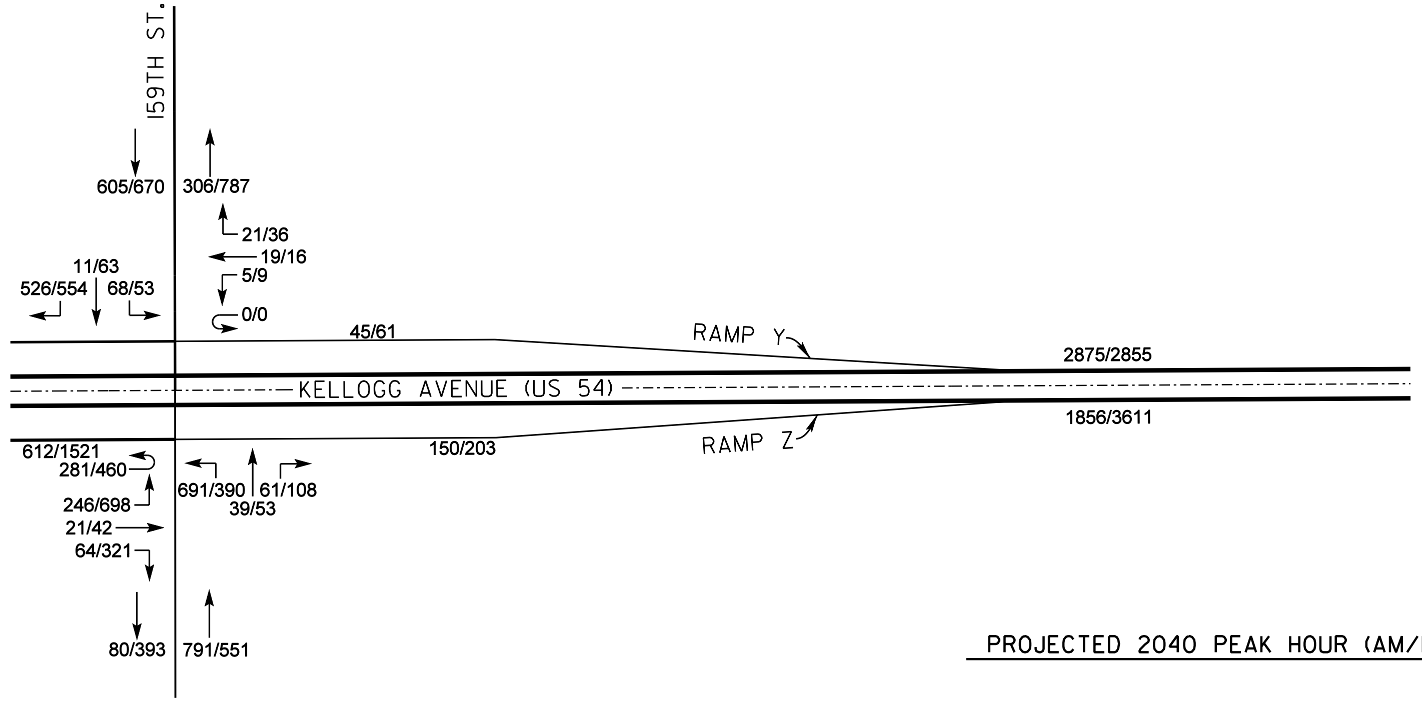
SURV.	-	PLOT	CADD	DES.	-	DR.	-	TR.	-	CKD.	-	APP.	-

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	:	262	534





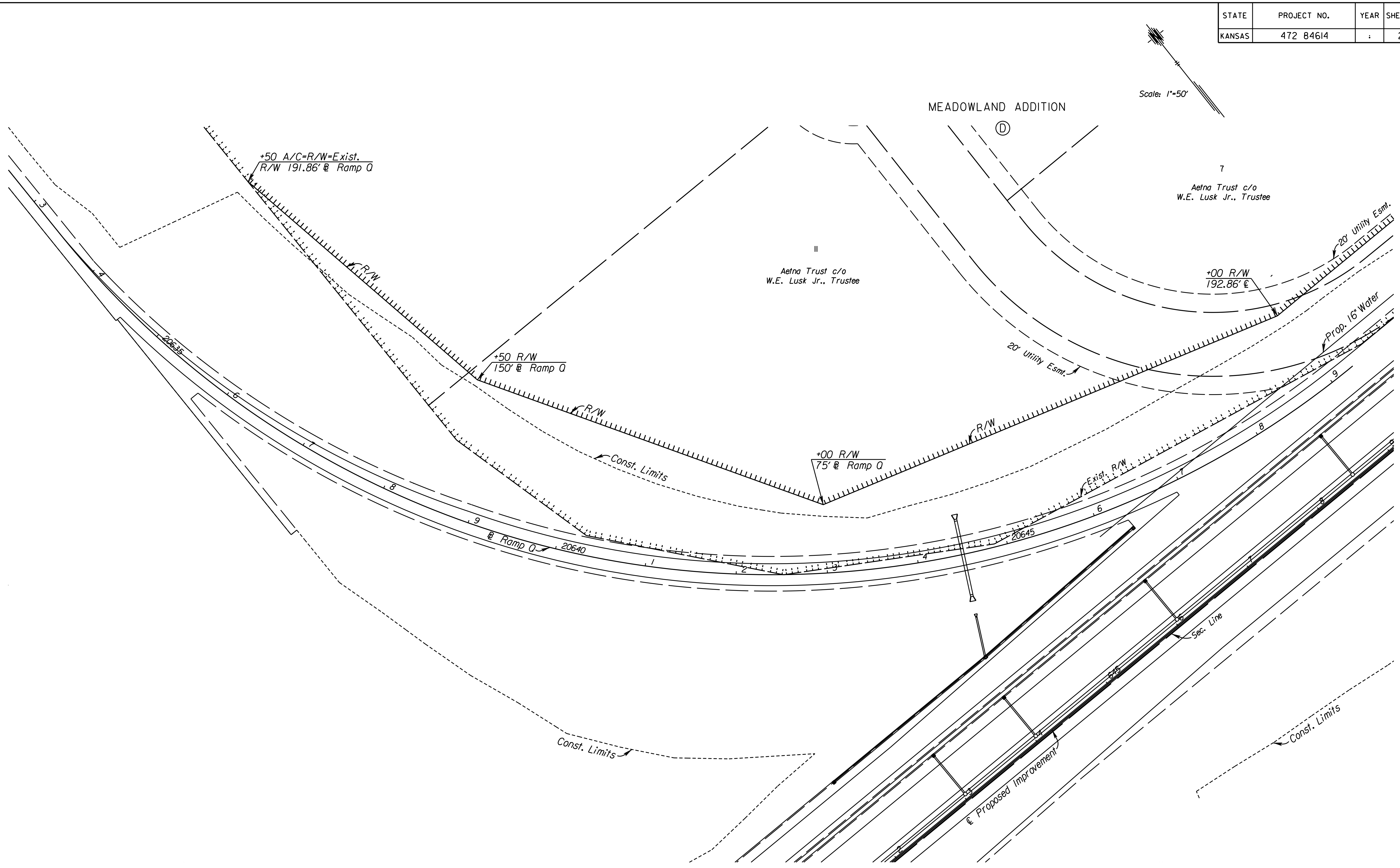
PROJECTED 2040 PEAK HOUR (AM/PM) TRAFFIC VOLUMES

CITY OF WICHITA
EAST KELLOGG
TRAFFIC VOLUMES

SURV. | - | PLOT | CADD | DES. | - | DR. | - | TR. | - | CKD. | - | APP. | -

10:55:09 AM
2/9/2011
T:\35766A\Cadd\Sheets\Traffic\EK2VOL02.dgn

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	:	263	534



CITY OF WICHITA

EAST KELLOGG

RIGHT-OF-WAY PLAN

STA. 642+00 - STA. 647+00

10:55:18 AM
2/9/2011
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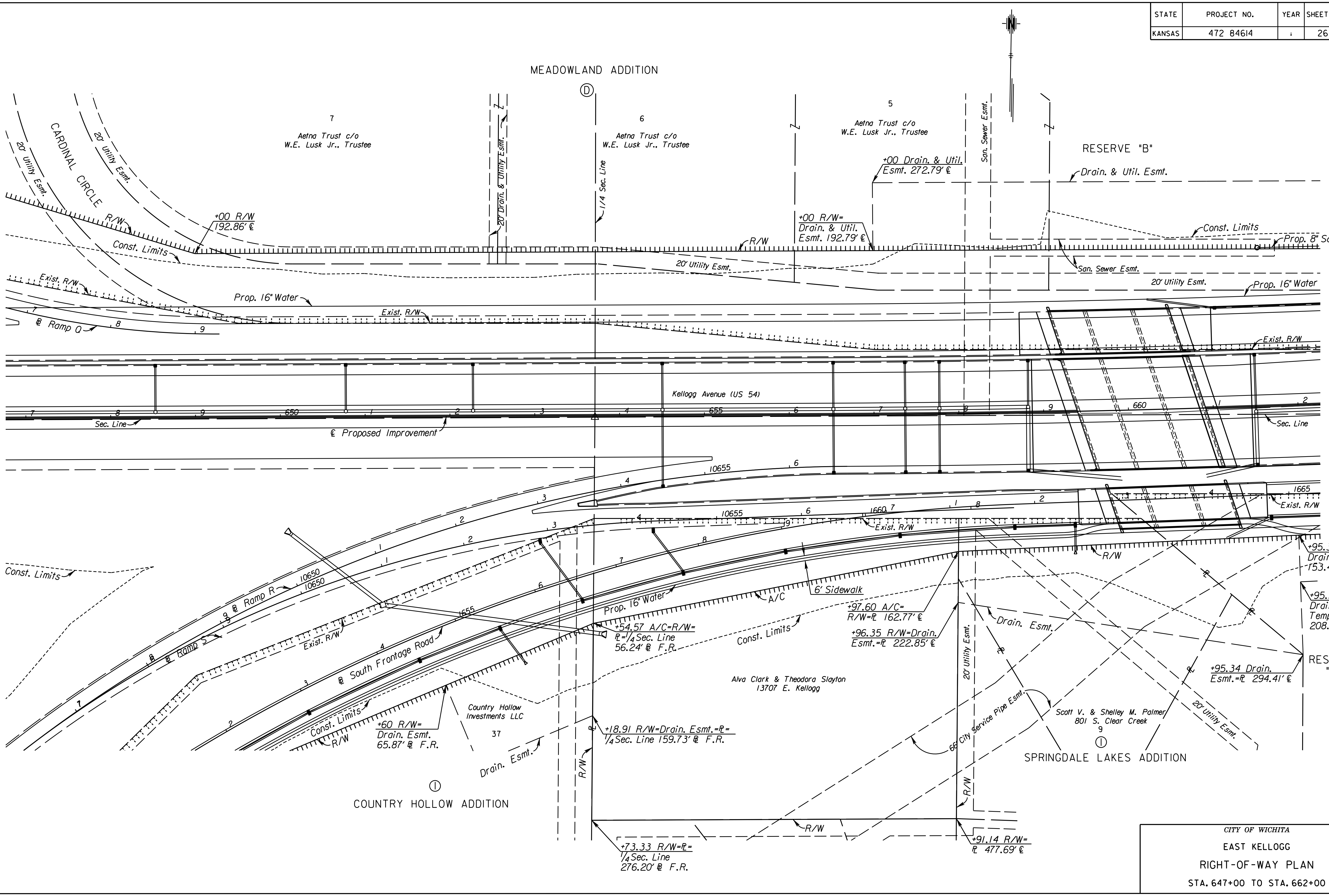
SURV.	-	PLOT	CADD	DES.	-	DR.	-	TR.	-	CKD.	-	APP.	-

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	:	264	534



CITY OF WICHITA

EAST KELLOGG

RIGHT-OF-WAY PLAN

STA. 647+00 TO STA. 662+00

SURV.	PLOT	CADD	DES.	DR.	TR.	CKD.	APP.
-	-	-	-	-	-	-	-

10:55:22 AM
2/9/2011
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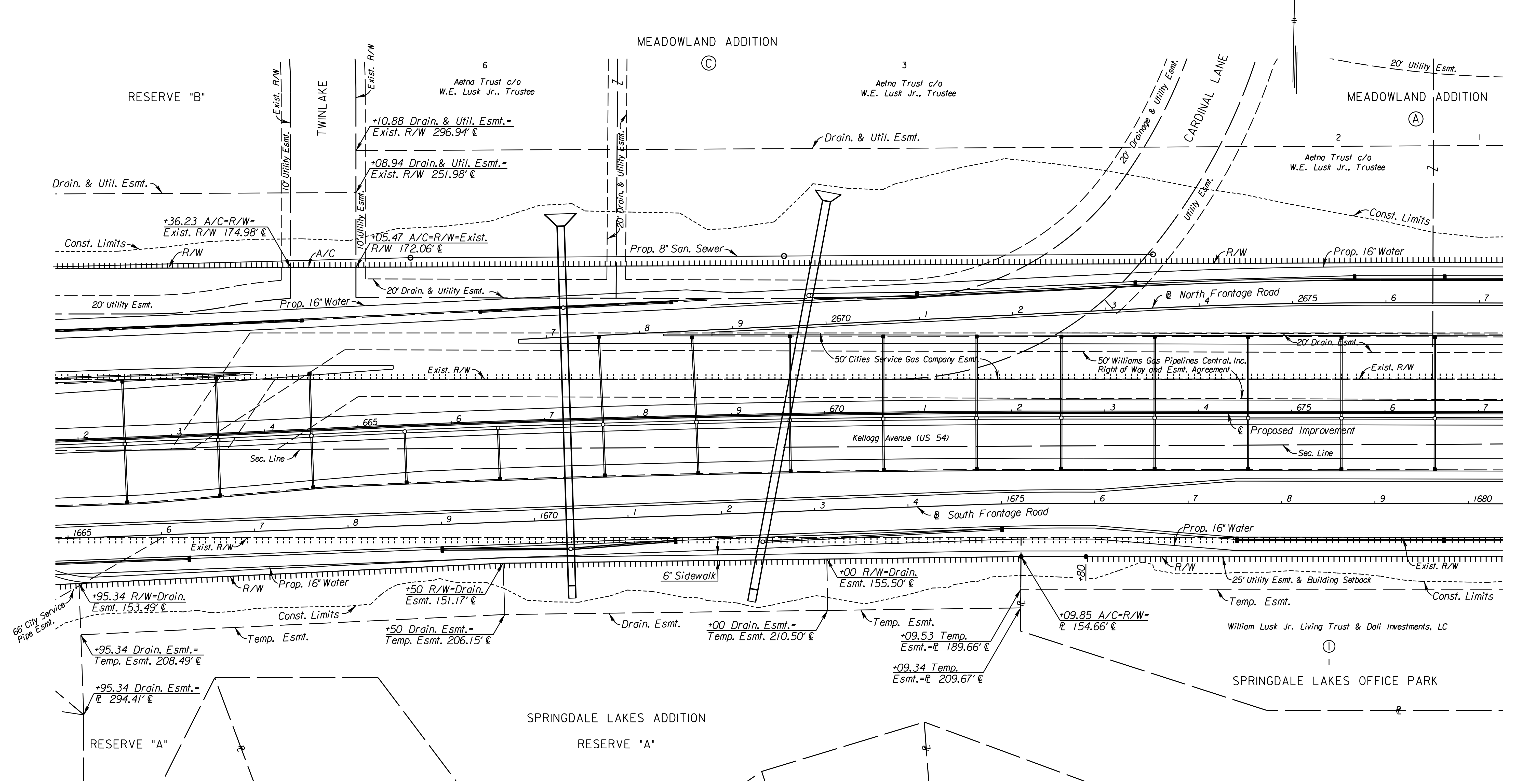
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	:	265	534



CITY OF WICHITA

EAST KELLOGG

RIGHT-OF-WAY PLAN

STA. 662+00 TO STA. 677+00

SURV. | - | PLOT | CADD | DES. | - | DR. | - | TR. | - | CKD. | - | APP.

10:55:25 AM
2/9/2011
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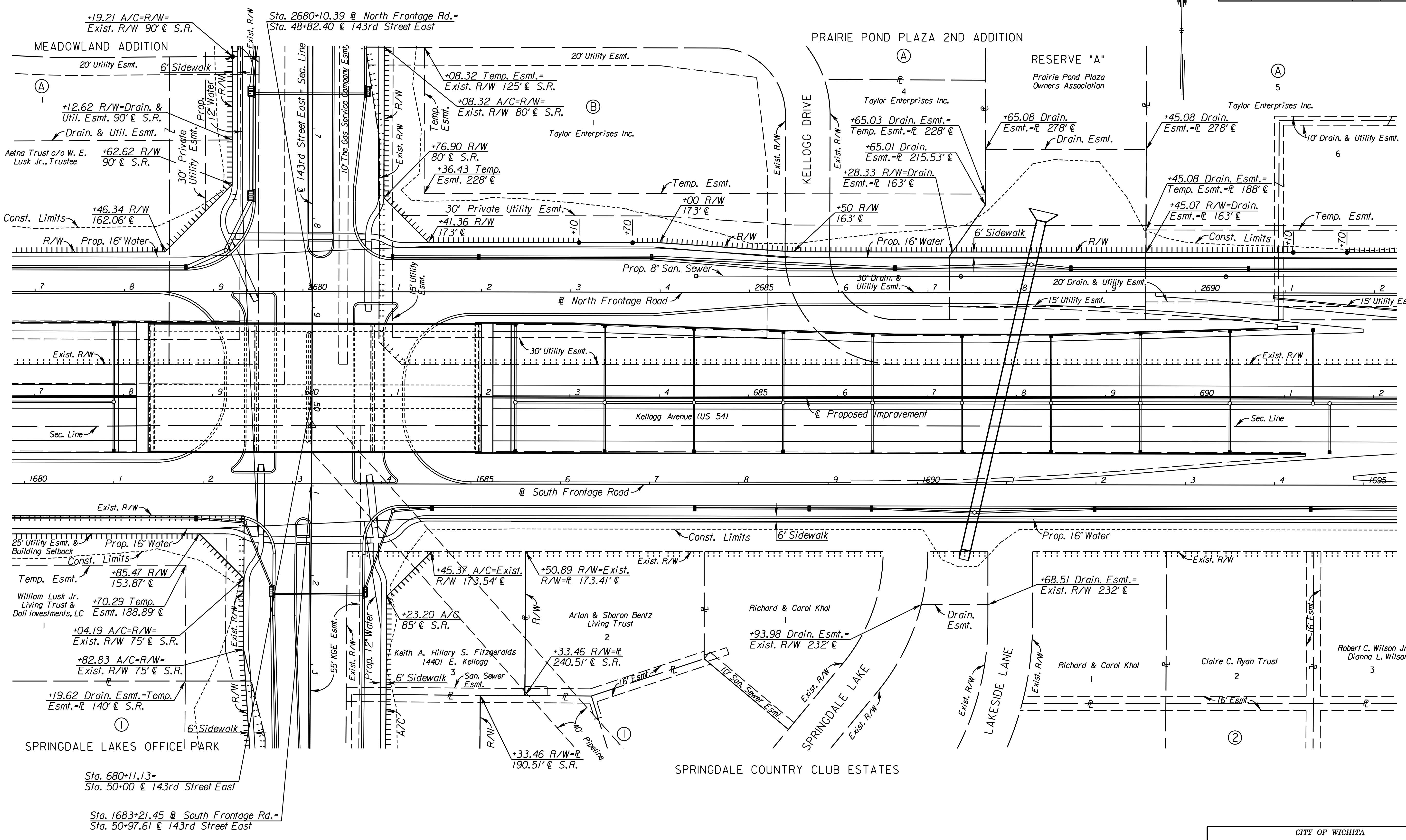
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	:	266	534



CITY OF WICHITA

EAST KELLOGG

RIGHT-OF-WAY PLAN

STA. 677+00 TO STA. 692+00

SURV.	-	PLOT	CADD	DES.	-	DR.	-	TR.	-	CKD.	-	APP.

10:55:28 AM
2/9/2011
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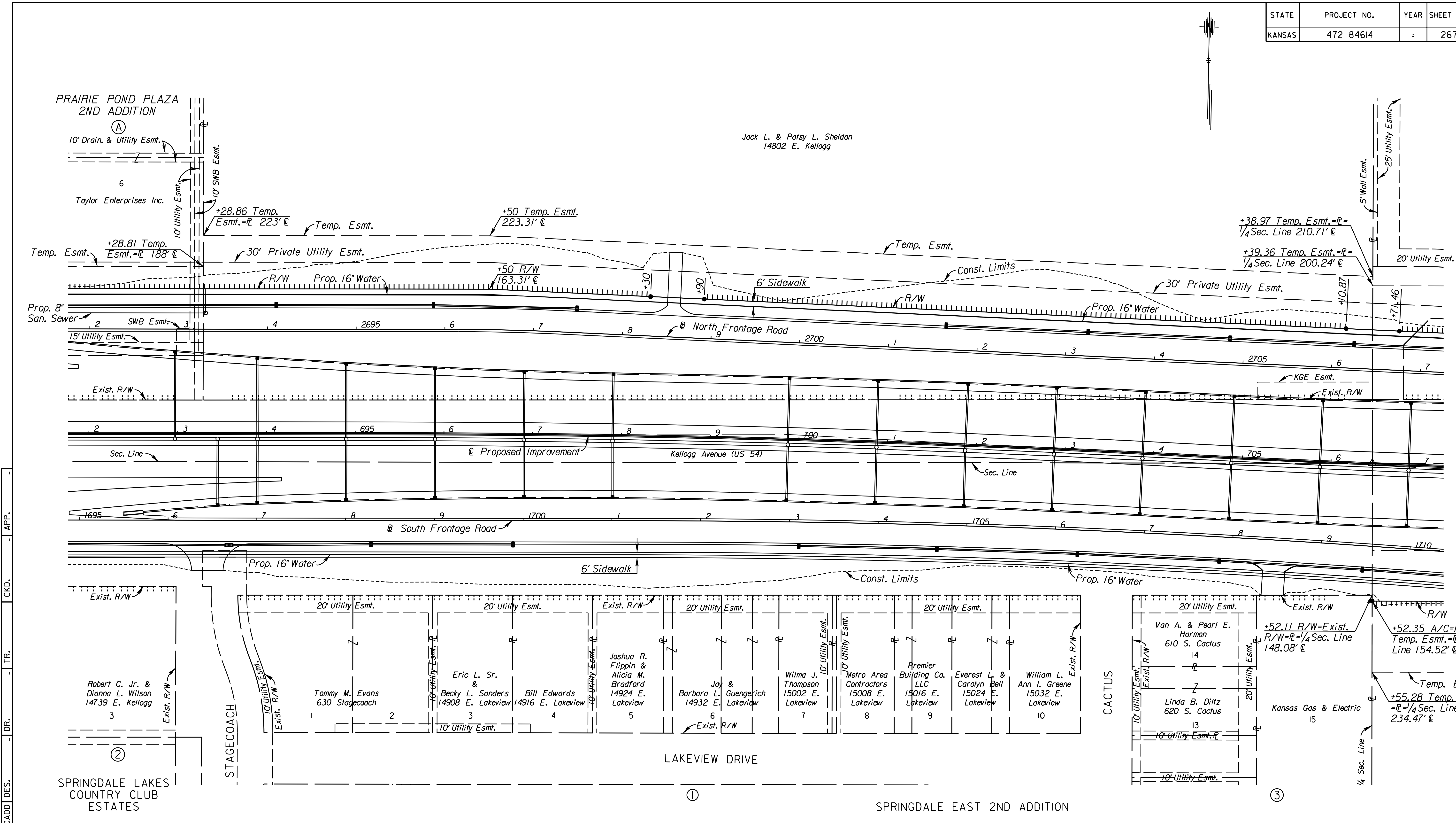
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	:	267	534



CITY OF WICHITA

EAST KELLOGG

RIGHT-OF-WAY PLAN

STA. 692+00 TO STA. 707+00

SURV.	-	PLOT	CADD	DES.	-	DR.	-	TR.	-	CKD.	-	APP.	-

10:55:32 AM
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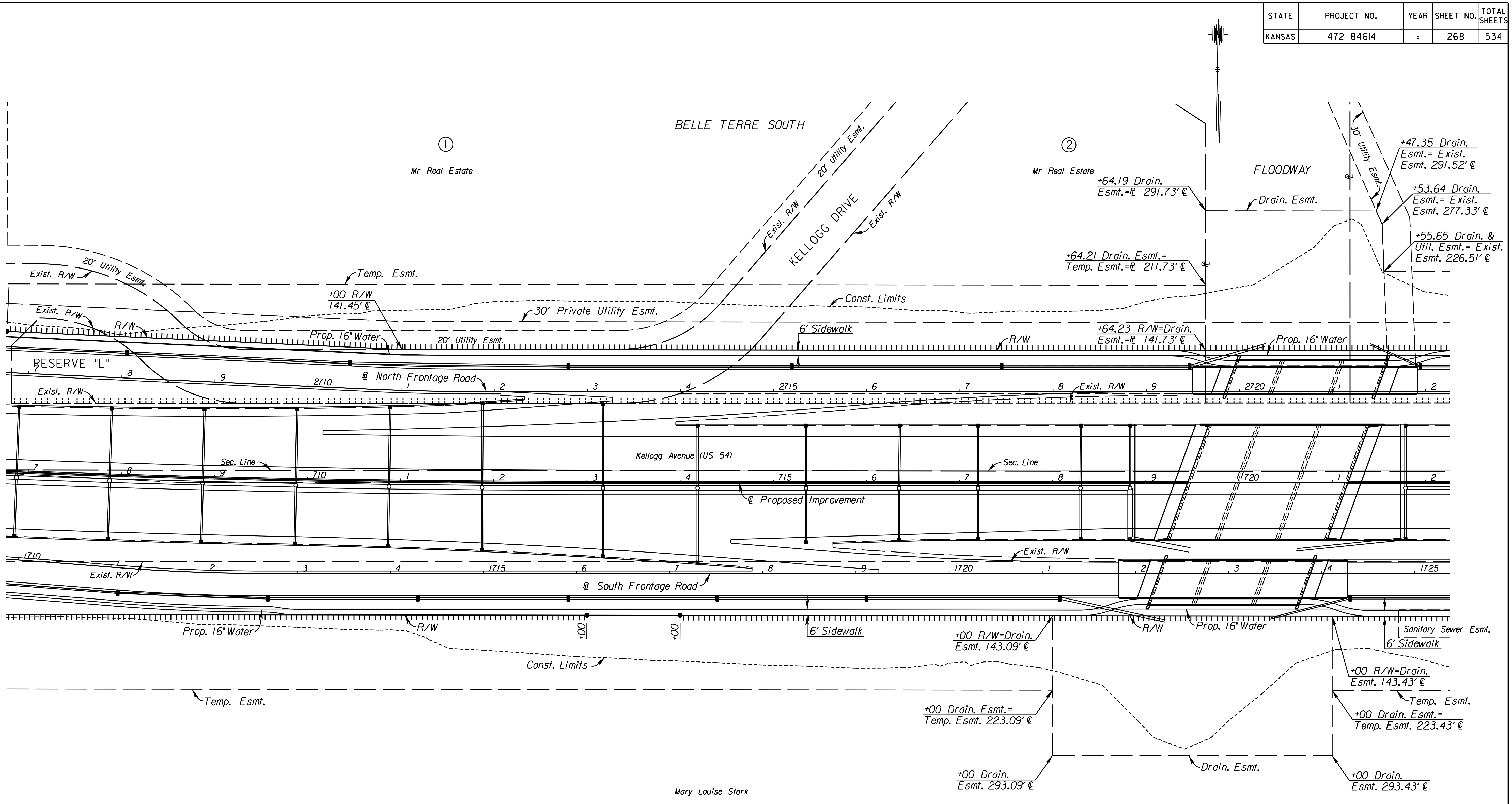
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	:	268	534



CITY OF WICHITA

EAST KELLOGG

RIGHT-OF-WAY PLAN

STA. 707+00 TO STA. 722+00

SURV.	-	PLOT	CADD	DES.	-	DR.	-	TR.	-	CKD.	-	APP.	-

10:55:35 AM
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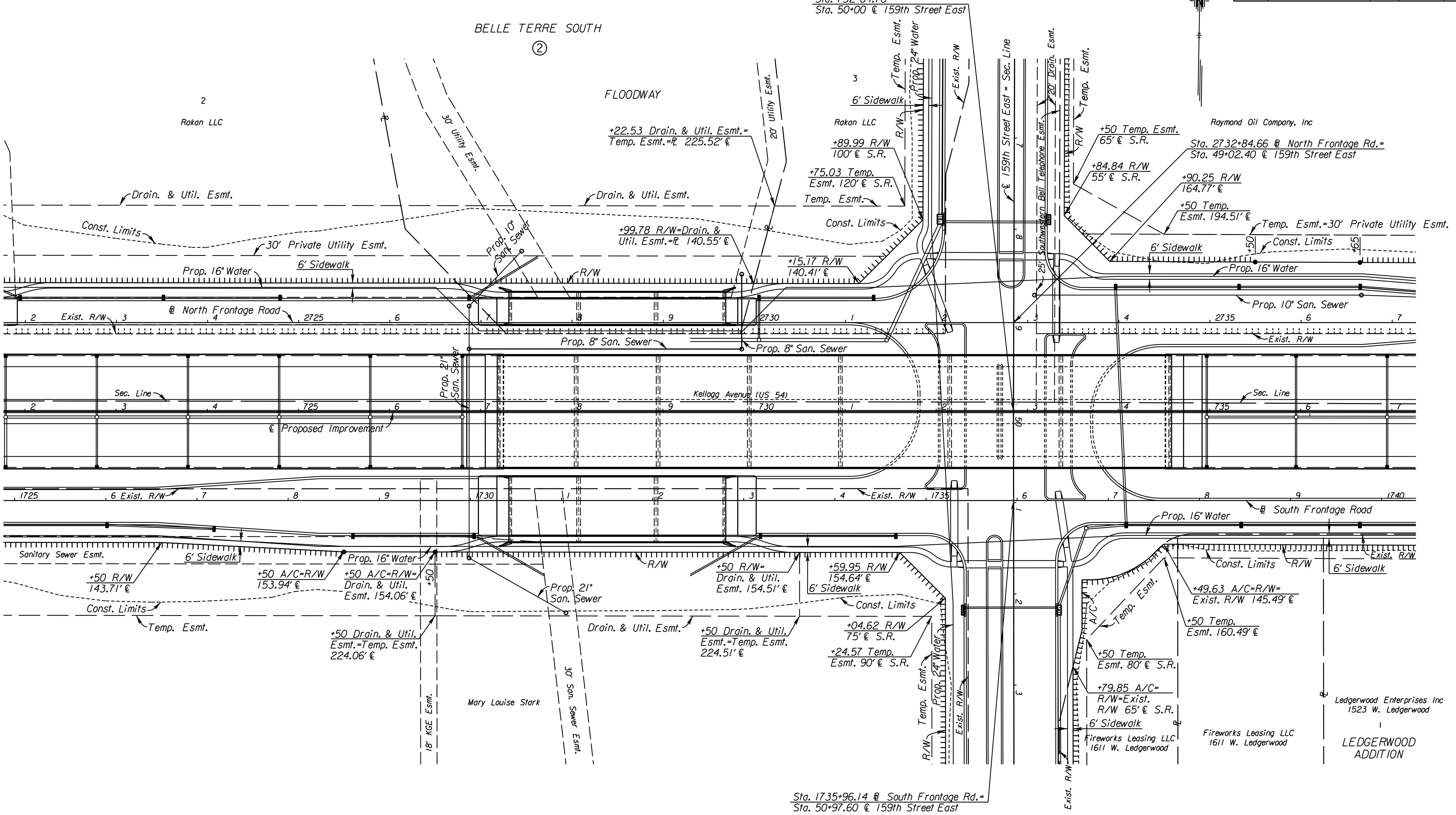
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	:	269	534



CITY OF WICHITA

EAST KELLOGG

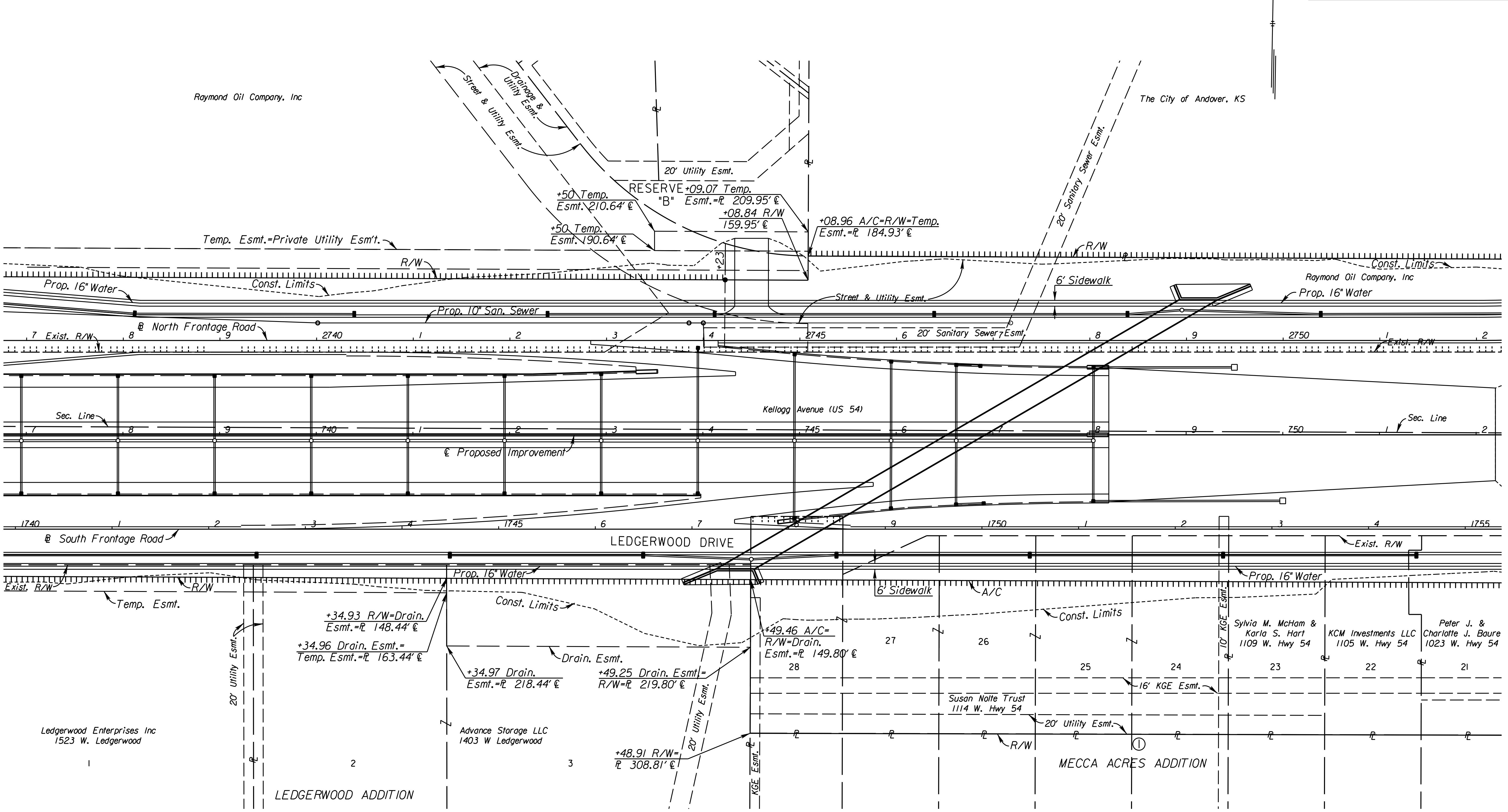
RIGHT-OF-WAY PLAN

STA. 722+00 TO STA. 737+00

10:55:38 AM
2/9/2011
T:\35766A\Cadd\Sheets\Roadway\PROW\EK2MLROW08.dgn

SURV.	-	PLOT	CADD	DES.	-	DR.	-	TR.	-	CKD.	-	APP.	-

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	:	270	534



CITY OF WICHITA
EAST KELLOGG
RIGHT-OF-WAY PLAN
STA. 737+00 TO STA. 752+00

SURV.	-	PLOT	CADD	DES.	-	DR.	-	TR.	-	CKD.	-	APP.	-

10:55:41 AM
2/9/2011
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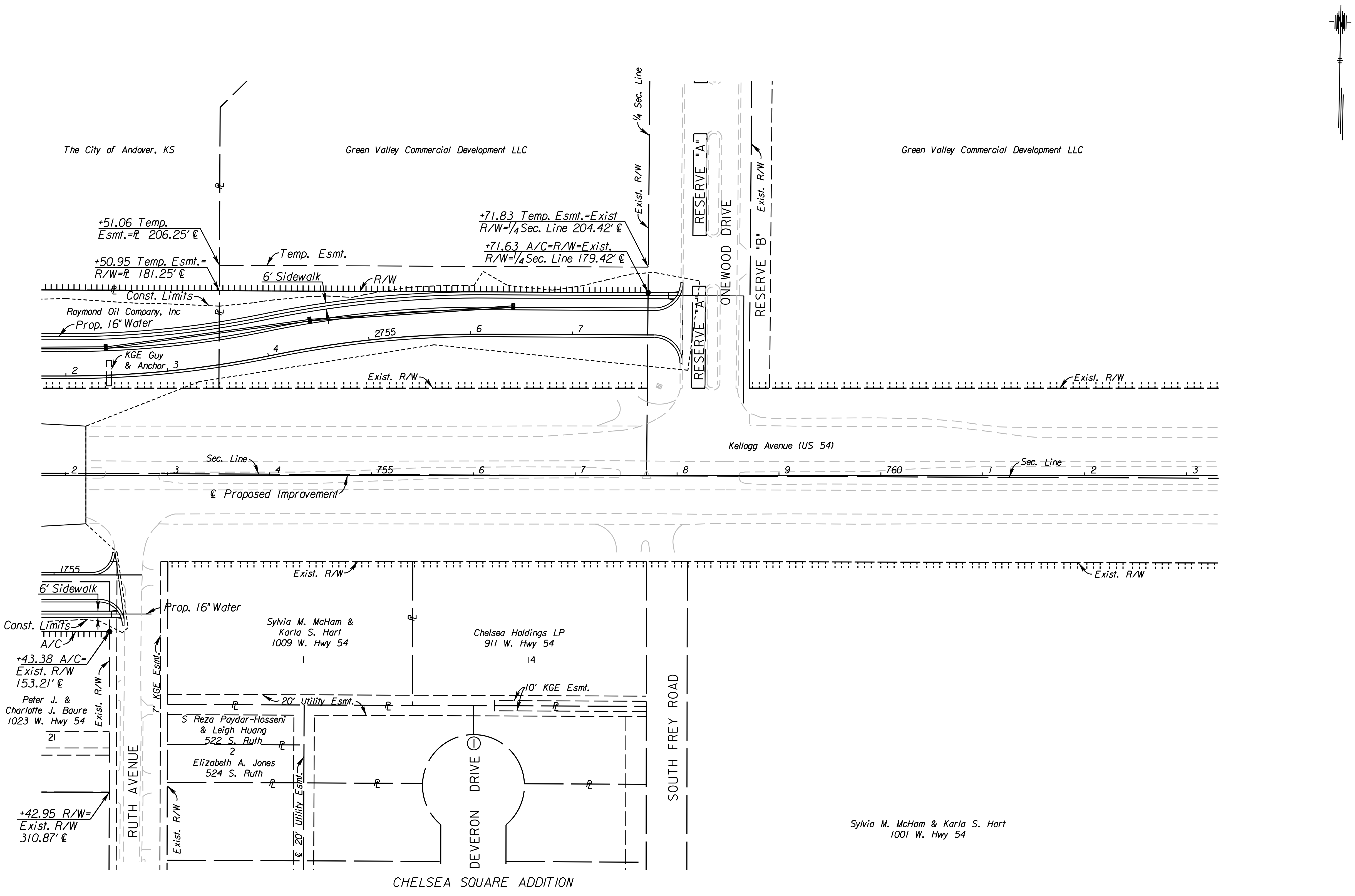
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	:	271	534



CITY OF WICHITA

EAST KELLOGG

RIGHT-OF-WAY PLAN

STA. 752+00 TO STA. 763+00

SURV.	-	PLOT	CADD	DES.	-	DR.	-	TR.	-	CKD.	-	APP.	-

10:55:44 AM
2/9/2011
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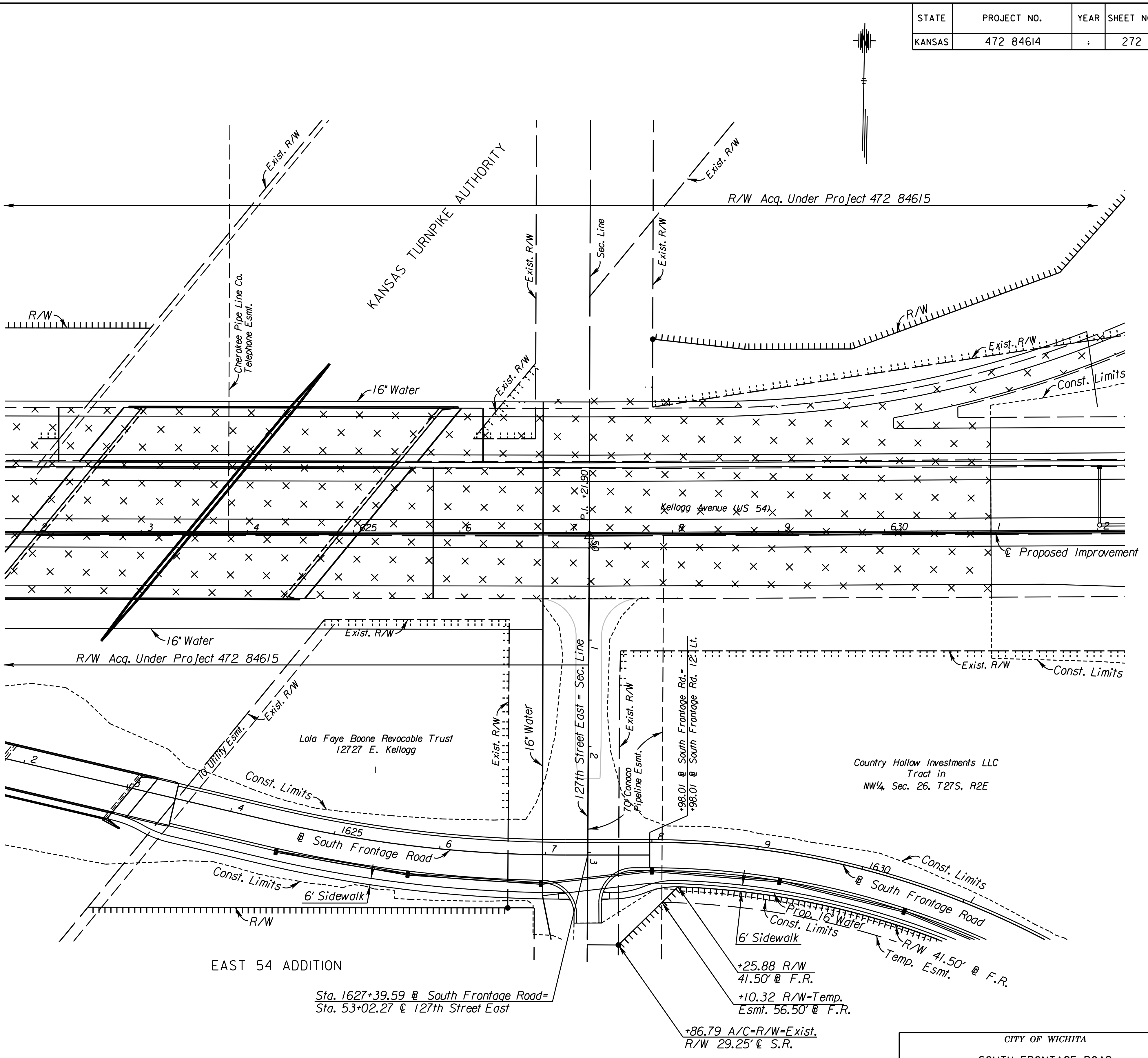
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	:	272	534



Sta. 1627+39.59 ℄ South Frontage Road=
Sta. 53+02.27 ℄ 127th Street East

+25.88 R/W
41.50' ℄ F.R.

+10.32 R/W=Temp.
Esmt. 56.50' ℄ F.R.

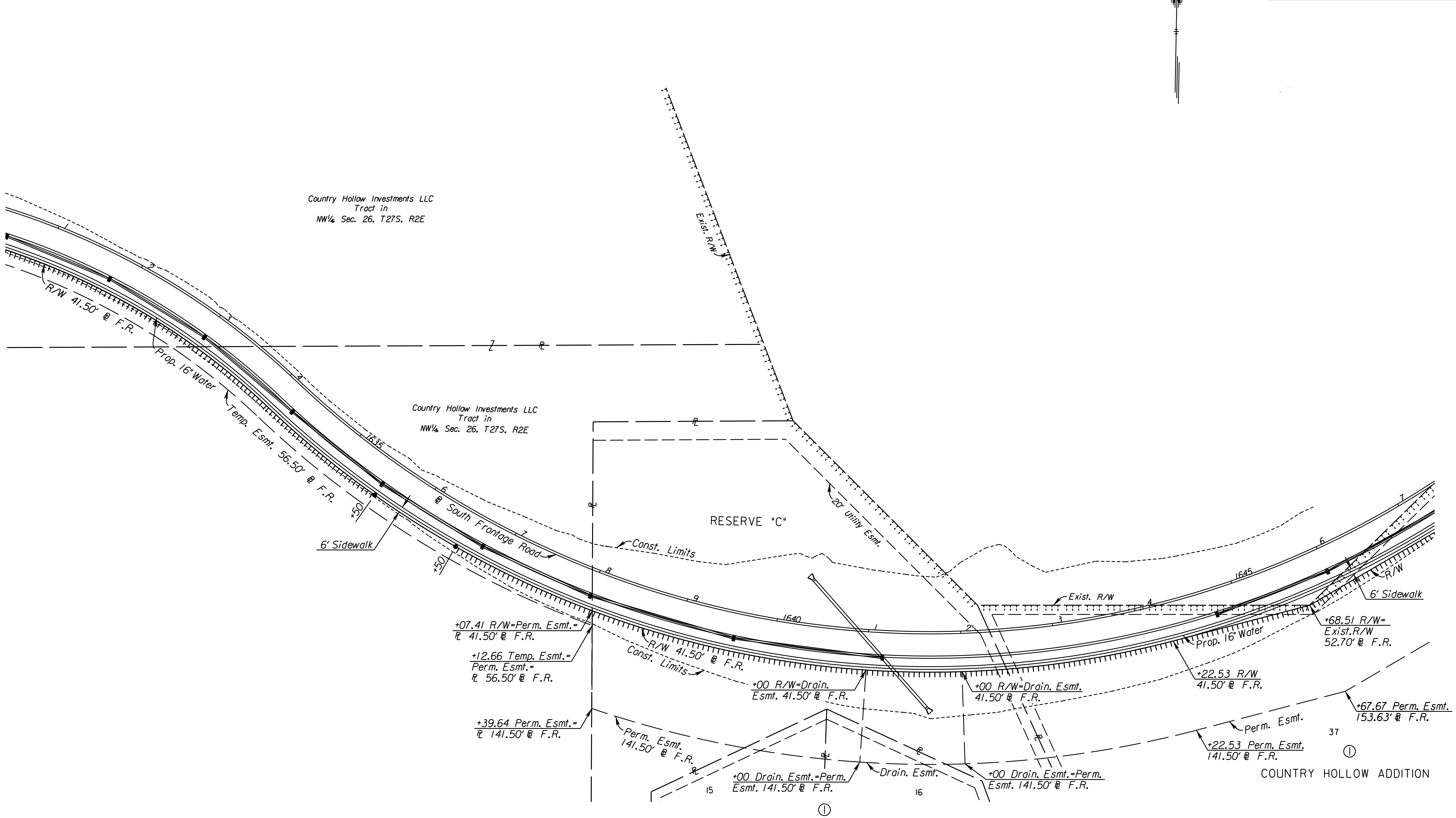
+86.79 A/C=R/W=Exist.
R/W 29.25' ℄ S.R.

CITY OF WICHITA
SOUTH FRONTAGE ROAD
RIGHT-OF-WAY PLAN
STA. 1627+39.59 TO STA. 1631+00

10:55:51 AM
2/9/2011
T:\35766A\Cadd\Sheets\Roadway\PROW\EK2MLROW01.dgn

SURV.	-	PLOT	CADD	DES.	-	DR.	-	TR.	-	CKD.	-	APP.	-

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	:	273	534



CITY OF WICHITA

SOUTH FRONTAGE ROAD

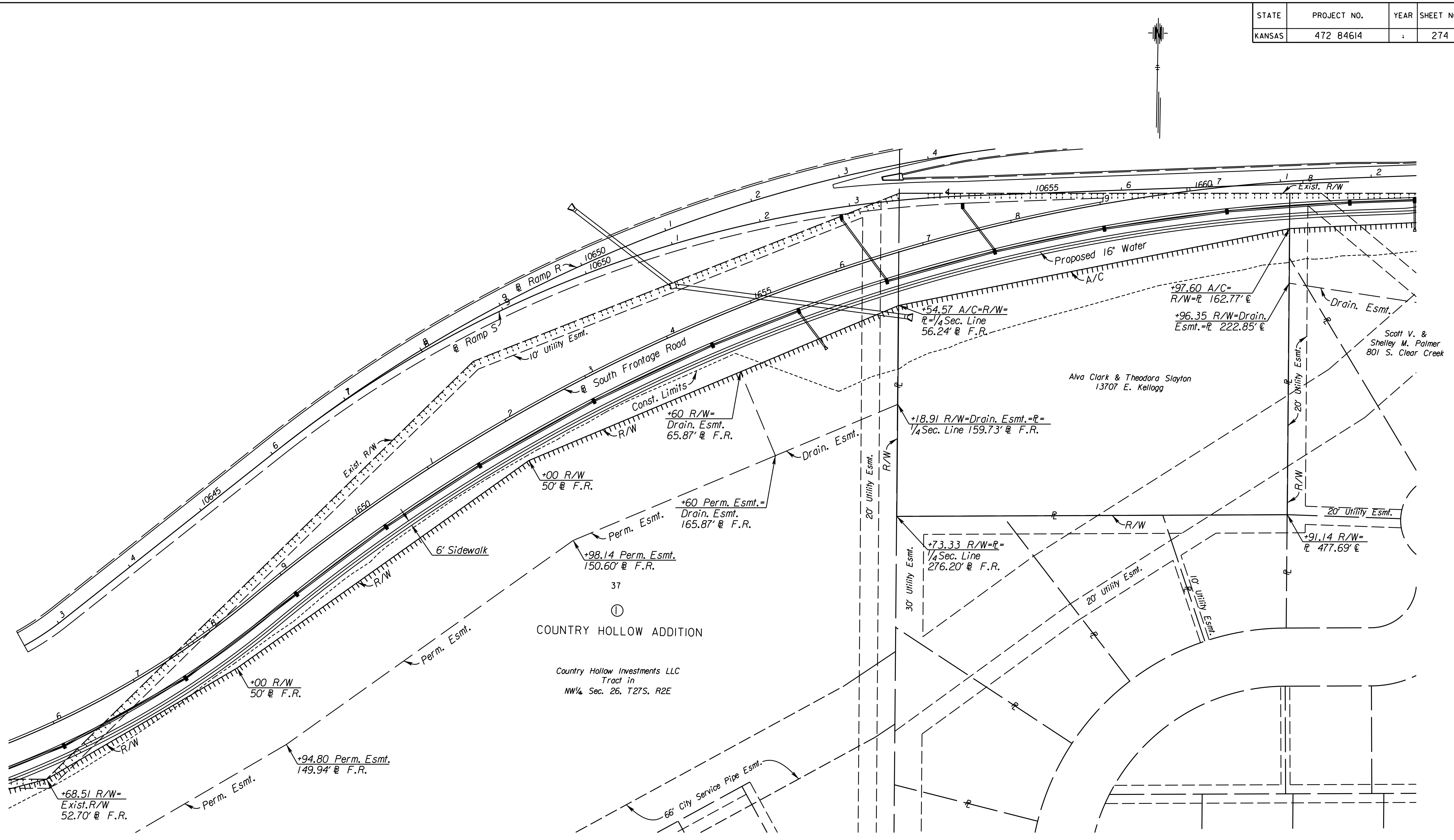
RIGHT-OF-WAY PLAN

STA. 1631+00 TO STA. 1647+00

10:55:56 AM
2/9/2011
T:\35766A\Cadd\Sheets\Roadway\PROW\EK2FSROW01.dgn

SURV. - PLOT CADD DES. - DR. - TR. - CKD. - APP. -

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	:	274	534



CITY OF WICHITA

SOUTH FRONTAGE ROAD

RIGHT-OF-WAY PLAN

STA. 1647+00 TO STA. 1662+00

SURV.	-	PLOT	CADD	DES.	-	DR.	-	TR.	-	CKD.	-	APP.	-

10:55:58 AM
2/9/2011
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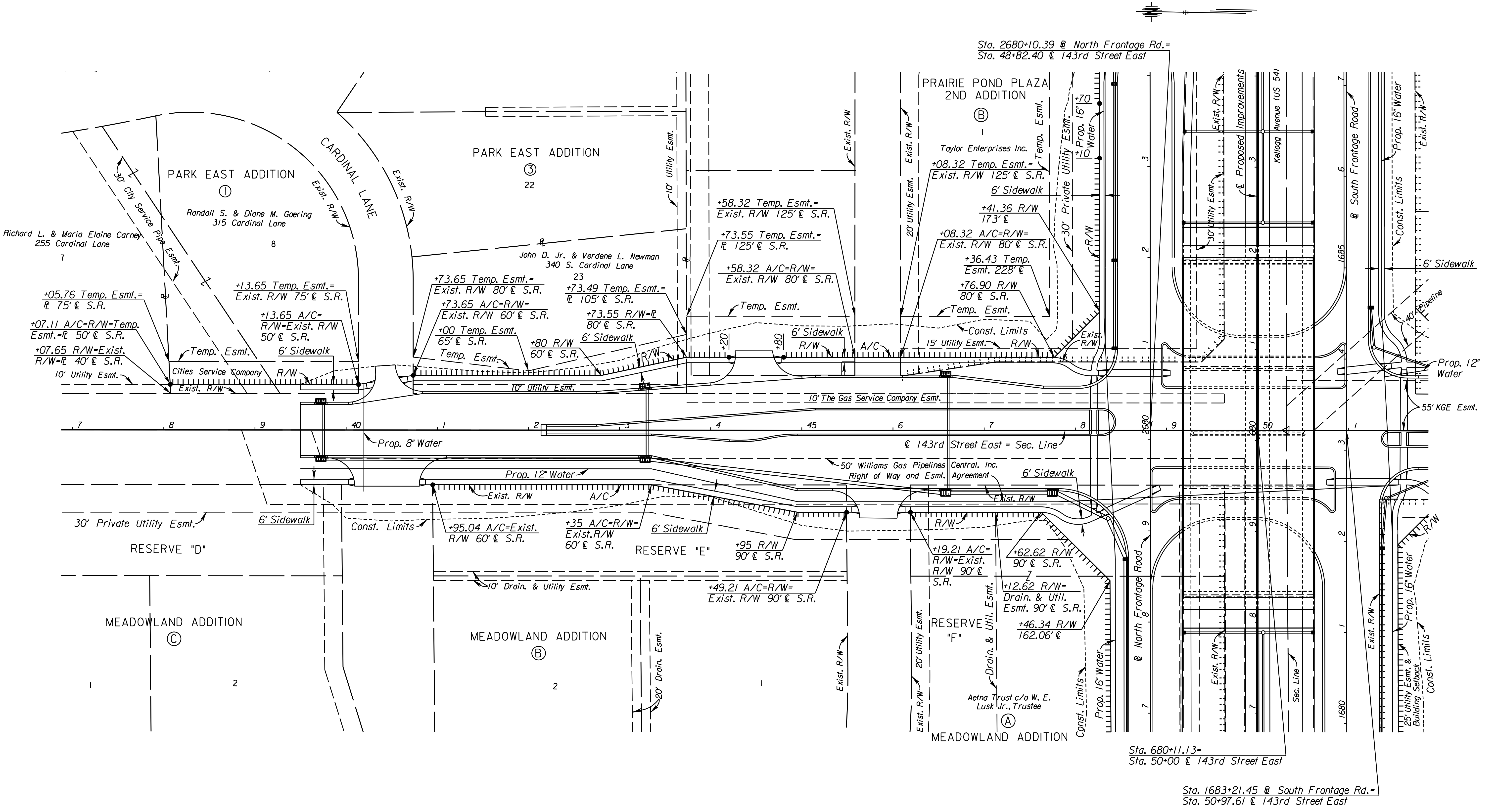
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	:	275	534

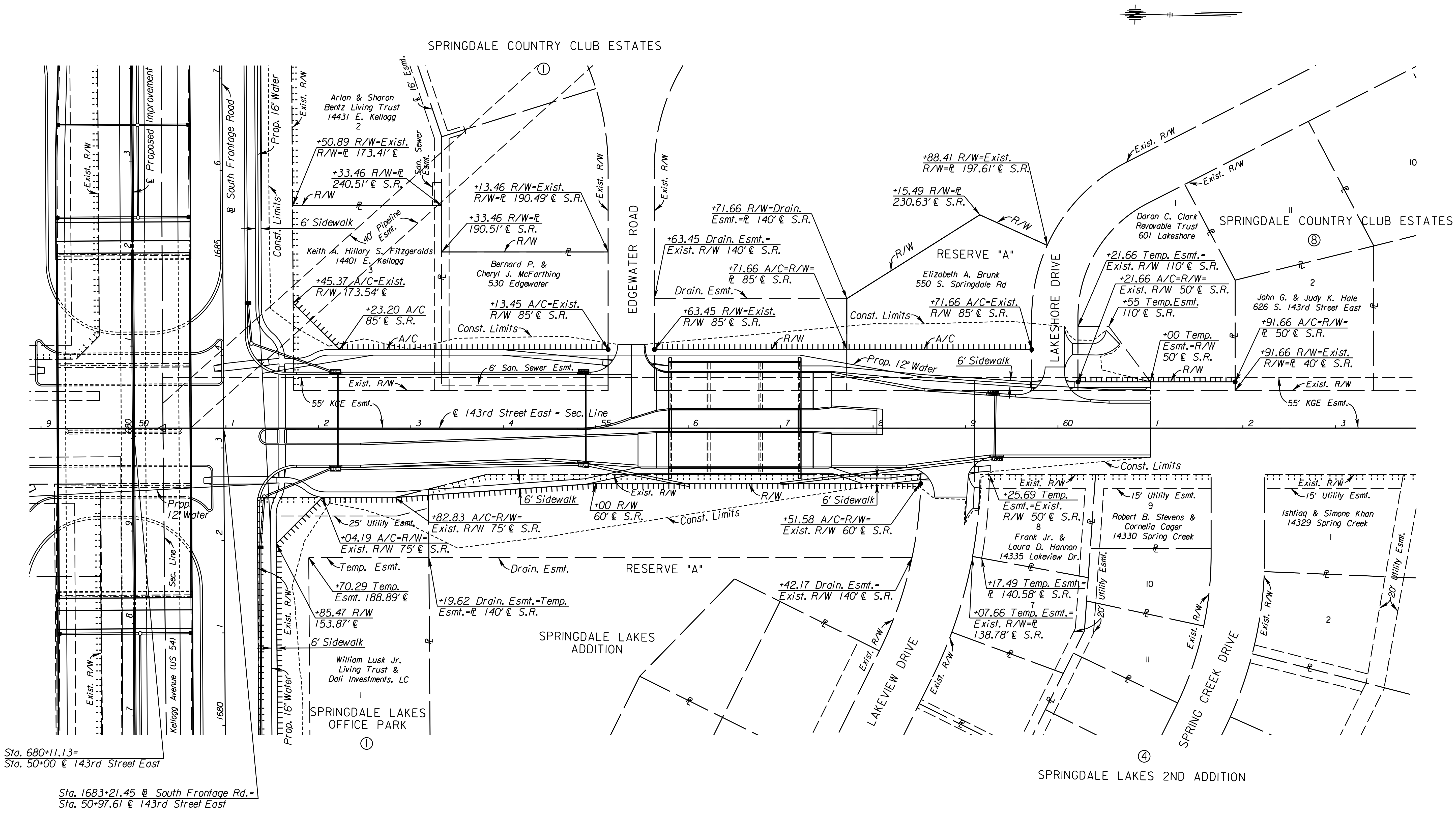


CITY OF WICHITA
143RD STREET EAST
RIGHT-OF-WAY PLAN
STA. 37+00 TO STA. 50+00

10:56:02 AM
2/9/2011
T:\35766A\Cadd\Sheets\Roadway\PROW\EK243ROW01.dgn

SURV.	PLOT	CADD	DES.	DR.	TR.	CKD.	APP.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	:	276	534



CITY OF WICHITA

143RD STREET EAST

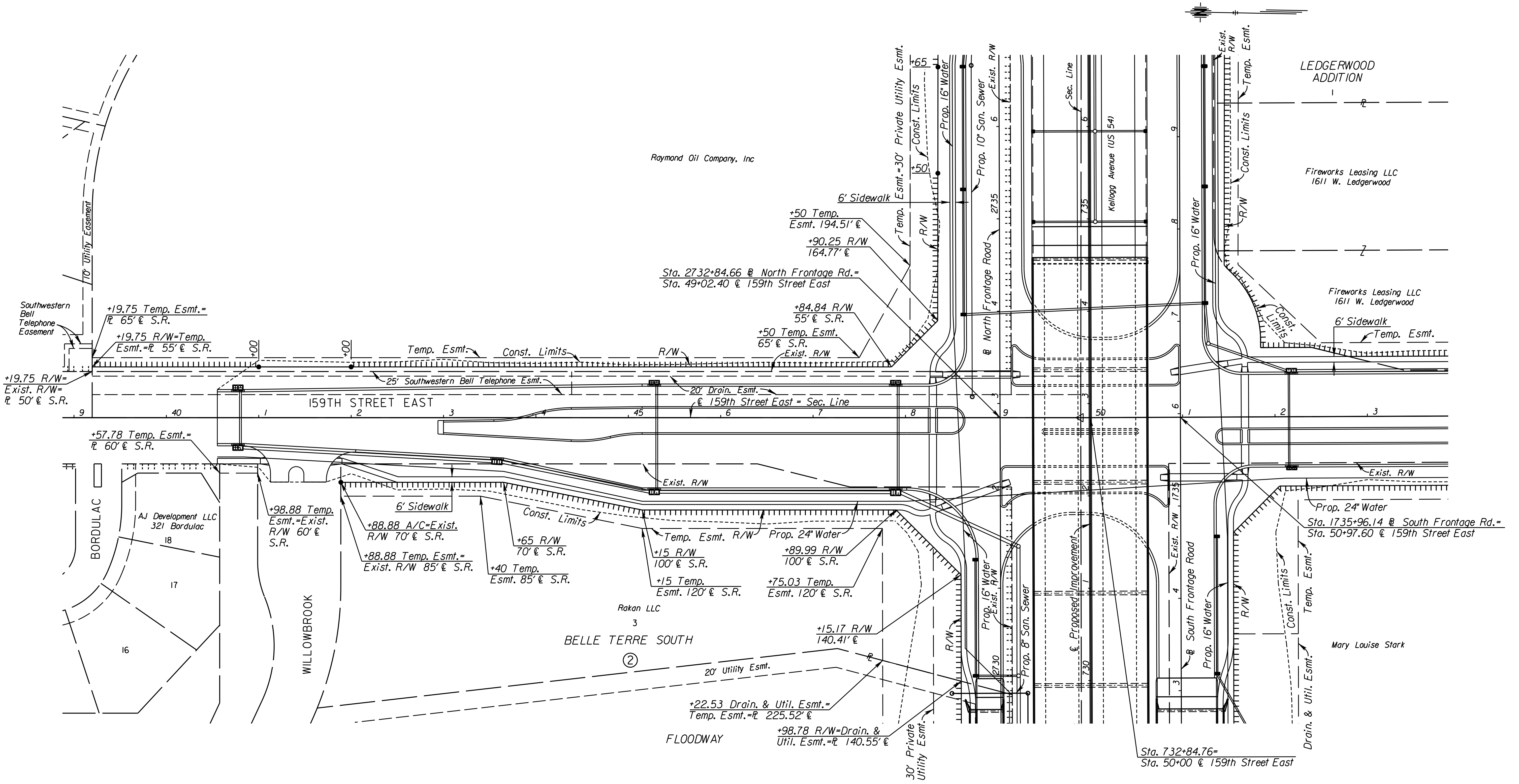
RIGHT-OF-WAY PLAN

STA. 50+00 TO STA. 63+00

SURV.	-	PLOT	CADD	DES.	-	DR.	-	TR.	-	CKD.	-	APP.	-

10:56:05 AM
2/9/2011
T:\35766A\Cadd\Sheets\Roadway\PROW\EK243ROW02.dgn

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	:	277	534

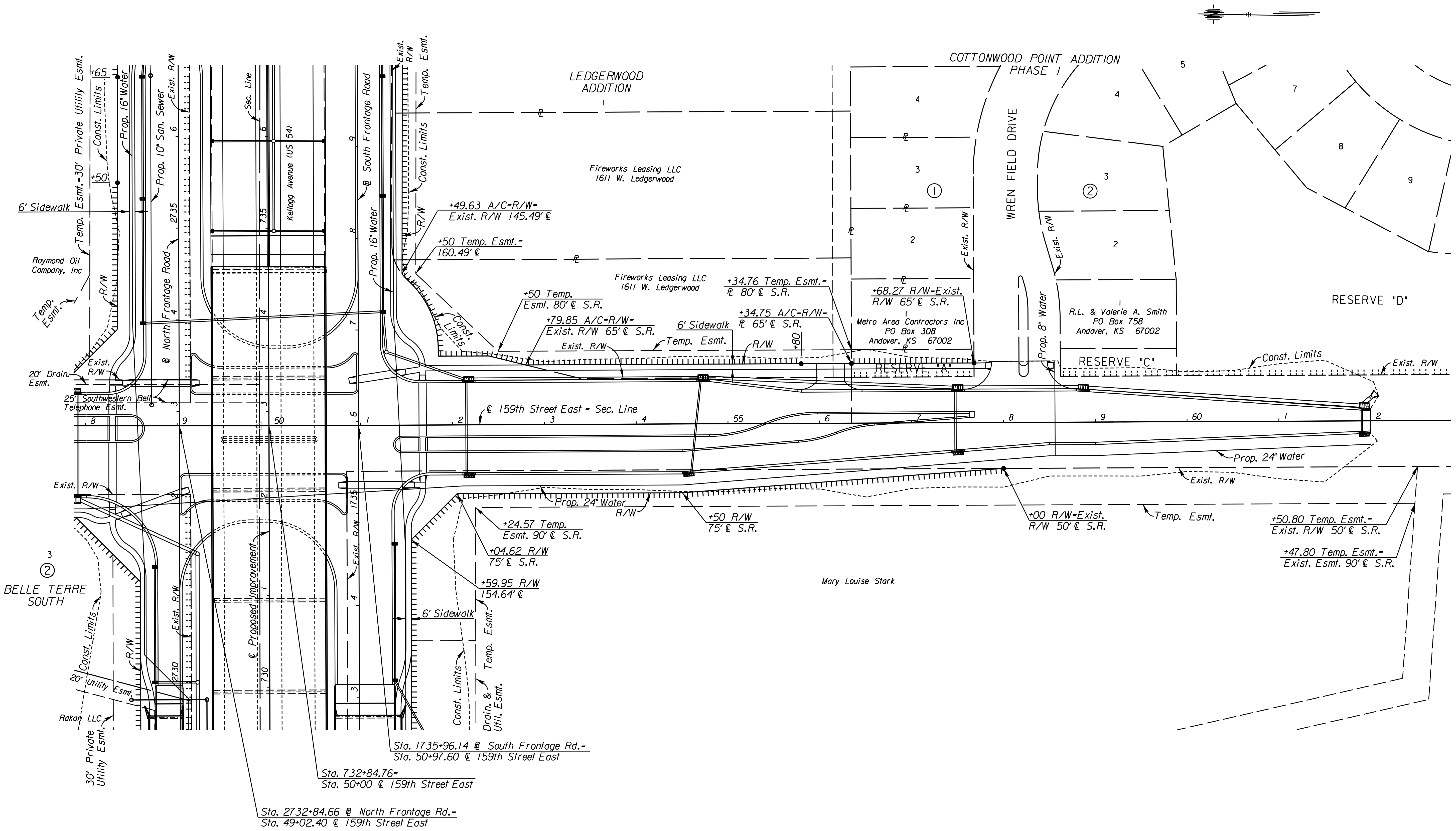


CITY OF WICHITA
159TH STREET EAST
RIGHT-OF-WAY PLAN
STA. 39+00 TO STA. 50+00

10:56:09 AM
2/9/2011
T:\35766A\Cadd\Sheets\Roadway\PROW\EK259ROW01.dgn

SURV.	-	PLOT	CADD	DES.	-	DR.	-	TR.	-	CKD.	-	APP.	-

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	:	278	534



CITY OF WICHITA

159TH STREET EAST

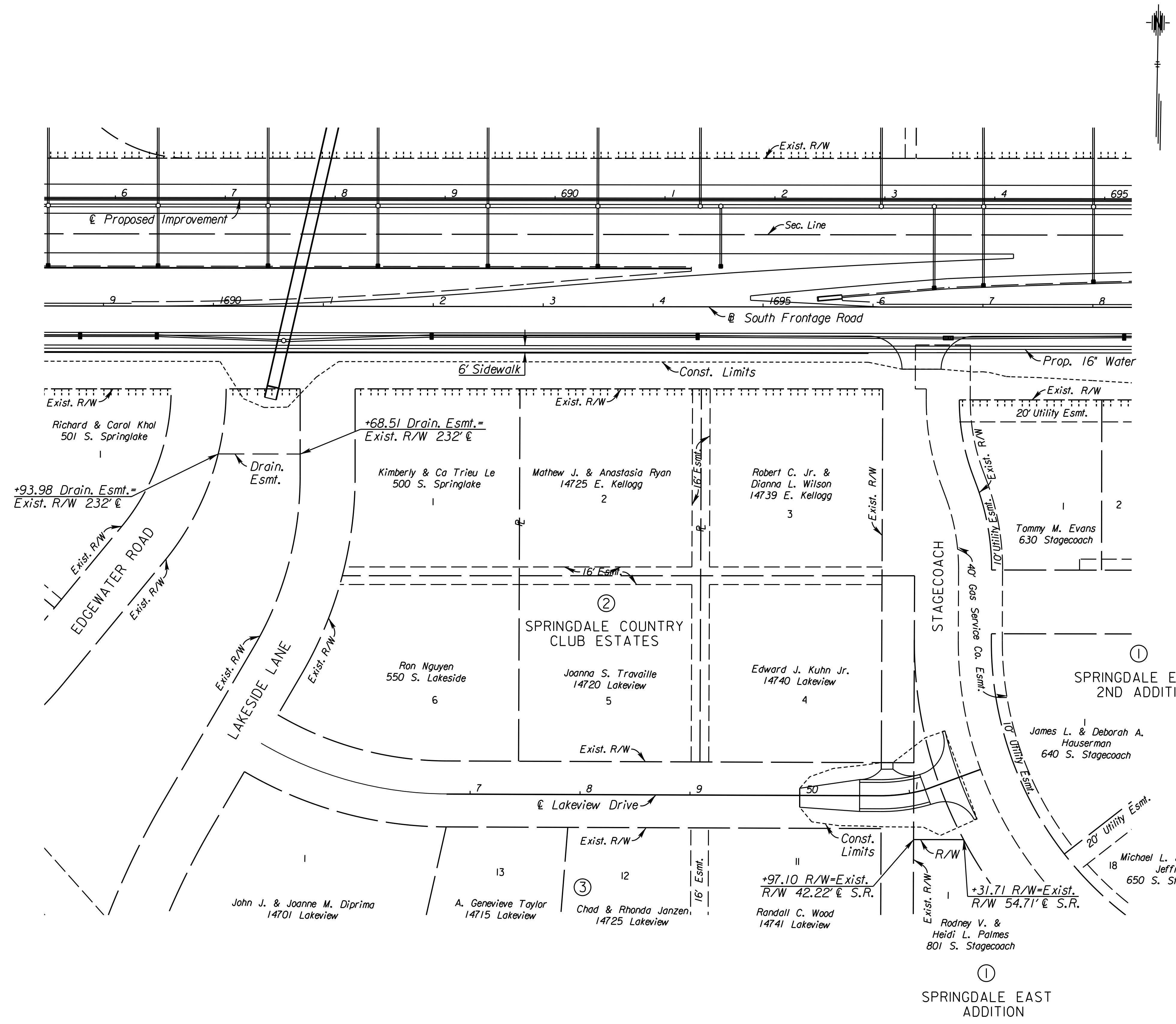
RIGHT-OF-WAY PLAN

STA. 50+00 TO STA. 63+00

10:56:12 AM
2/9/2011
T:\35766A\Cadd\Sheets\Roadway\PROW\EK259ROW02.dgn

SURV. - PLOT - CADD - DES. - DR. - TR. - CKD. - APP. -

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	:	279	534



CITY OF WICHITA

LAKEVIEW DRIVE

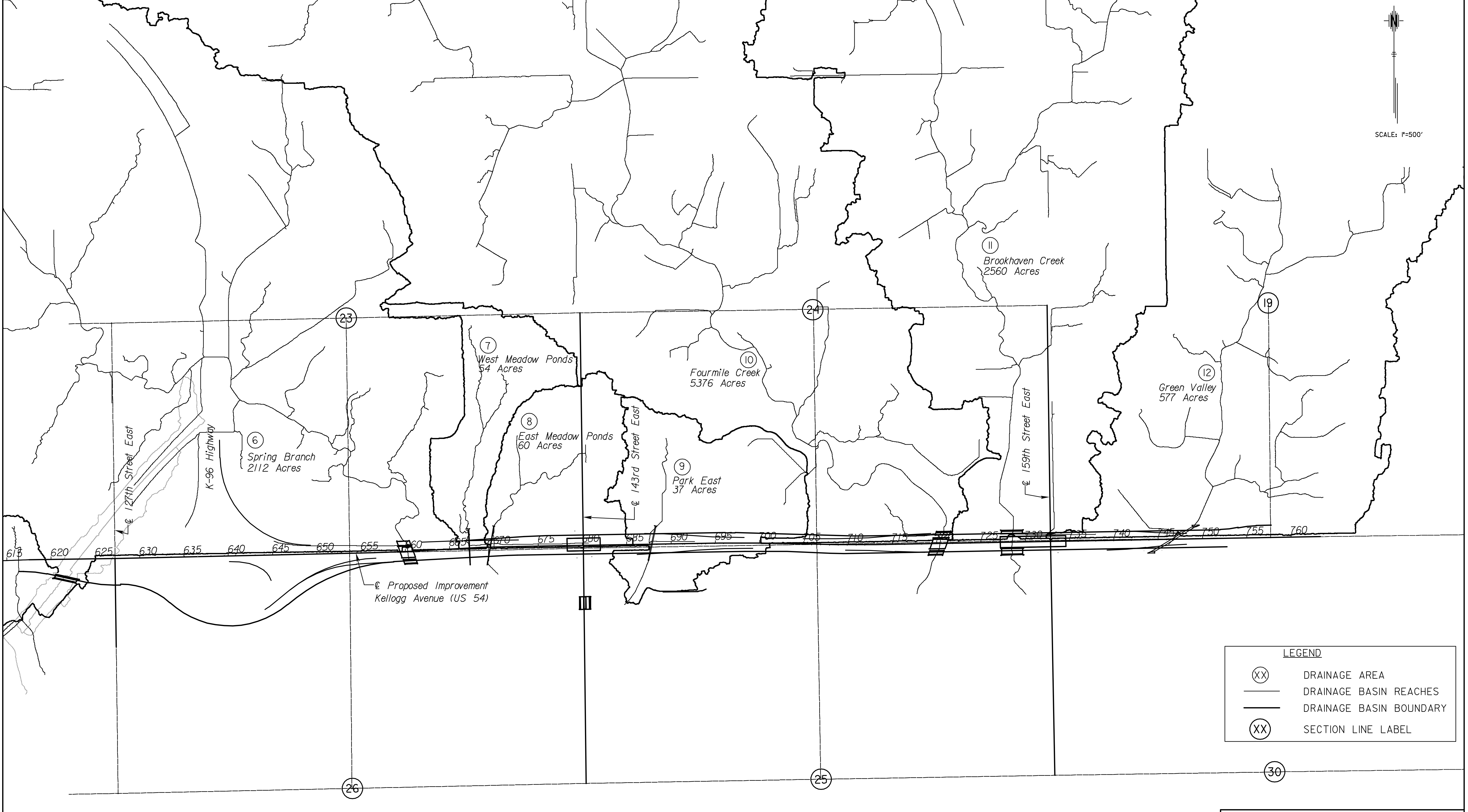
RIGHT-OF-WAY PLAN

STA. 46+78.50 TO STA. 51+68.18

10:56:15 AM
2/9/2011
T:\35766A\Cadd\Sheets\Roadway\PROW\EK2LVROW01.dgn

SURV. - PLOT CADD DES. - DR. - TR. - CKD. - APP. -

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472 84614	.	280	534



CITY OF WICHITA

EAST KELLOGG

DRAINAGE MAP

STA. 620+00 TO STA. 760+00

6:17 PM
2/9/2011
J:\CIVIL\07432\DWG\DRAINAGE\DRAINAGE MAPS\EK2MLDRN07.DWG