

PROJECT CONTROL AND COORDINATE DATA						
POINT NO.	BASELINE STATION	OFFSET	SIDE	DESCRIPTION	NORTHING	EASTING
101	99+00.00	0.00	N/A	Begin Alignment	1,697,995.69	1,628,229.25
102	99+98.29	0.00	N/A	Begin Project	1,698,059.62	1,628,303.90
103a	103+40.05	0.00	N/A	End Alignment	1,698,305.68	1,628,526.91
201	102+67.48	17.37	Lt.	24' x 100.4 L.F. RCP w/ RC End Sections	1,698,246.15	1,628,490.85
301	102+28.02	12.92	Rt.	Existing R/W Corner	1,698,199.25	1,628,486.78
302	102+72.78	20.61	Rt.	Existing R/W Corner = Temporary Easement	1,698,232.57	1,628,526.70
303	103+79.06	3.91	Lt.	Existing R/W Corner	1,698,343.41	1,628,519.08

PROJECT SURVEY CONTROL & BENCHMARKS

Horizontal - Kansas State Plane Coordinates
 (NAD83-1502 KS-South- CAF = 0.99988218) (OPUS)
 Vertical - NAVD88
 Base Survey Completed by: Garber Surveying Service PA, Hutchinson, KS

BENCHMARKS

BM #1 Arrow on Fire Hydrant
 Approx. 22' East & 1039.69' North of the Southwest Corner of the Southwest Quarter of Section 2, T27S, RIW
 N 1,700,000.8894
 E 1,628,175.4151
 32.86' Lt., Sta. 121+66.38, Elev.= 1329.68

BM #2 Arrow on Fire Hydrant
 Approx. 27.6' East & 700.6' South of the Northwest Corner of the Southwest Quarter of Section 2, T27S, RIW
 N 1,700,891.3358
 E 1,628,168.5820
 17.44' Lt., Sta. 130+60.56, Elev.= 1327.06

BM #3 Square Cut on Top of Curb
 Approx. 62' East & 456.4' North of the Northwest Corner of the Southwest Quarter of Section 2, T27S, RIW
 N 1,702,048.3164
 E 1,628,187.0347
 1.84' Rt., Sta. 142+23.21, Elev.= 1331.06

BM #4 Railroad Spike on Northeast Side of Power Pole
 Approx. 34.6' East & 870.20' North of the Northwest Corner of the Southwest Quarter of Section 2, T27S, RIW
 N 1,702,462.5563
 E 1,628,155.3484
 12.34' Lt., Sta. 146+39.86, Elev.= 1327.18

BM #5 Railroad Spike on Northeast Side of Power Pole
 Approx. 34.8' East & 1,273.27' South of the Northwest Corner of the Southwest Quarter of Section 2, T27S, RIW
 N 1,702,939.1601
 E 1,628,147.6936
 12.23' Lt., Sta. 151+16.51 Elev.= 1326.04

CONTROL POINTS

CP #11 Fd. 1/2" Rebar w/ Red GSS Cap
 N 1,701,722.4542
 E 1,628,094.4134
 94.74' Lt., Sta. 138+98.50
 1. 21.45' W. to SE Corner of Brick Corner Fence Post at Base
 2. 9.2' NE to SW Face of PP at Base
 3. 87.8' SSE to Top Center of Fire Hydrant
 4. 135.67' SSE to W Quarter Corner to Section 2, T27S RIW
 5. 37.83' E. to Apparent ϕ of Road (Hoover)

CP #12 Fd. 1/2" Rebar w/ Red GSS Cap
 N 1,700,361.6392
 E 1,628,112.3859
 75.92' Lt., Sta. 125+30.41
 1. 13.45' SW to W. Leg of Old Unused Sign at Base
 2. 46.8' SSE to Top ϕ of RCP at W. End
 3. 72.6' NNE to Top Center of UGT Pedestal
 4. 38.7' E. to Apparent ϕ of Road (Hoover)

CP #13 Fd. 1/2" Rebar w/ Red GSS Cap
 N 1,699,614.2668
 E 1,628,133.1148
 78.48' Lt., Sta. 118+06.37
 1. 4.1' N. to S. Face of PP at Base
 2. 7.4' S. to B/C at S. End E.O.R.
 3. 27.8' E. to Apparent ϕ of Road (Hoover)
 4. 35.9' WSW to Base of Mailbox Address 2249

CP #14 Fd. 1/2" Rebar w/ Red Cap
 N 1,699,016.9673
 E 1,628,147.7441
 67.84' Lt., Sta. 111+49.05
 1. 42.65' NNW to S. Face of PP at Base
 2. 21.65' S. to Top Center of Fire Hydrant
 3. 28.00' SSW to N Face of PP at Base
 4. 21.90' E. to Apparent ϕ of Road (Hoover)
 5. 59.39' SE to SW Section Corner of Section 2, T27S RIW

CP #15 Fd. 1/2" Rebar w/ Red Cap
 N 1,698,640.7034
 E 1,628,157.6042
 92.57' Lt., Sta. 108+11.34
 1. 20.83' SSW to Guy Anchor
 2. 10.84' NW to Top Center of Short Fence Post
 3. 46.15' NE to Centerline of Road in Bend (Hoover)

SECTION CORNERS

NE Section Corner Sec. 3-T27S-RIW (17A)
 Found 1/2" Rebar in Thimble
 Northing - 1704208.0692
 Easting - 1628098.4471

- 1. Magnail & Washer in NW Face of Power Pole 74.26' SE
- 2. Magnail & Washer in W Face of Power Pole 69.80' NE
- 3. Magnail in S Face of High Line Pole 67.79' NW
- 4. Centerline of 29th Street In Line
- 5. Centerline of Hoover Road In Line

W Quarter Section Corner Sec. 2-T27S-RIW (17C)
 Found Yellow Capped Rebar
 Northing - 1701591.9200
 Easting - 1628131.3705

- 1. Triple Spike in South Face of Light Pole 16.55' WNW
- 2. Magnail in East Face of Power Pole 46.45' SW
- 3. Triple Spike in South Face of Fence Post 35.00' E
- 4. Top Center of Fire Hydrant 52.55' NW
- 5. Centerline of Hoover Road 2.00' E
- 6. Centerline of 25th Street 15.00' S

SW Section Corner Sec. 2-T27S-RIW (17E)
 Found Rebar in Monument Box
 Northing - 1698960.9956
 Easting - 1628167.5892

- 1. Spike in West Face of Light Pole 54.10' NE
- 2. Spike in SW Face of Power Pole 42.00' NW
- 3. Top of AT&T Pedestal 40.14' SW
- 4. Top of AT&T Pedestal 65.85' SE
- 5. Centerline of Hoover Road 2.00' E
- 6. Centerline of 21st Street In Line

SW Section Corner Sec. 11-T27S-RIW (17J)
 Found Tee Post
 Northing - 1693702.4662
 Easting - 1628236.8041

- 1. Edge of Stone Rip-Rap at Top of Lower Embankment 18.00' NW
- 2. SE Face of Concrete Bridge Support (13th Street) 42.00' NW
- 3. Line of 1st & 3rd light poles for 13th Street Br. 40.14' SW
- 4. Southeast of the Flowline of the Big Ditch
- 5. Extended Centerline of Hoover Road In Line
- 6. Extended Centerline of 13th Street In Line

S Quarter Section Corner Sec. 2-T27S-RIW (19E)
 Found PEC Capped Rebar
 Northing - 1698964.3654
 Easting - 1630796.3020

- 1. PK Nail in E Face of Power Pole 26.20' SSE
- 2. Top of Gas Vent Post 30.90' S
- 3. Top of Fire Hydrant 25.35' N
- 4. Top of Metal Chainlink Fence Post 50.35' WNW
- 5. Extended Centerline of 21st Street In Line

BASELINE GEOMETRIC DETAILS

Beginning Chain MI description

Point 101 - N: 1,697,995.69, E: 1,628,229.25, Sta. 99+00.00
 Course from 101 to 102 N49°25'12.72"E, Dist. 345.02
 Point 102 - N: 1,698,220.12, E: 1,628,491.30, Sta. 102+45.02

	Curve Data		Curve Data
Curve CURVE1-1		Curve CURVE1-2	
P.I. Station	= 102+61.26 N: 1,698,230.69 E: 1,628,503.63	P.I. Station	= 103+23.65 N: 1,698,288.67 E: 1,628,528.15
Delta	= 26°07'20.14" (LT)	Delta	= 27°23'10.14" (LT)
Degree	= 81°51'04.01"	Degree	= 81°51'04.01"
Tangent	= 16.24	Tangent	= 17.06
Length	= 31.91	Length	= 33.46
Radius	= 70.00	Radius	= 70.00
External	= 1.86	External	= 2.05
Long Chord	= 31.64	Long Chord	= 33.14
Mid. Ord.	= 1.81	Mid. Ord.	= 1.99
P.C. Station	= 102+45.02 N: 1,698,220.12 E: 1,628,491.30	P.C. Station	= 103+06.60 N: 1,698,273.00 E: 1,628,521.42
P.T. Station	= 102+76.93 N: 1,698,245.60 E: 1,628,510.05	P.T. Station	= 103+40.05 N: 1,698,305.68 E: 1,628,526.91
C.C.	= N: 1,698,273.29 E: 1,628,445.76	C.C.	= N: 1,698,300.61 E: 1,628,457.10
Back	= N49°25'12.72"E	Back	= N23°13'59.55"E
Ahead	= N23°17'52.58"E	Ahead	= N4°09'10.59"W
Chord Bear	= N36°21'32.65"E	Chord Bear	= N9°32'24.48"E

Point 103 - N: 1,698,245.60, E: 1,628,510.05, Sta. 102+76.93
 Course from 103 to 104 N 22°32'04.84" E Dist. 29.66
 Point 104 - N: 1,698,273.00, E: 1,628,521.42, Sta. 103+06.60

Point 105 - N: 1,698,305.68, E: 1,628,526.91, Sta. 103+40.05
 Course from 105 to 106 N4°09'10.58"W Dist. 25.82
 Point 106 - N: 1,698,331.43, E: 1,628,525.04, Sta. 103+65.87

CONSULTANTS:

HOOVER ROAD MULTI-USE PATH
 & TRAFFIC SIGNAL
 ZOO BLVD. TO 29TH STREET NORTH



REVISIONS:	MARK	DATE	DESCRIPTION

PROJ NO: 472-85394
 SCALE: N/A
 DATE: 9/30/2020
 DESIGNED BY: MCG
 DRAWN BY: MCG
 CHECKED BY: CCB

SHEET TITLE:
COORDINATE DATA & GEOMETRIC DETAILS

SHEET NO.
3
 SHEET 3 OF 44