

CONTROL POINTS 

BENCH MARK LIST 

SECTION CORNERS 

Pt. No. 200  
N: 1665451.1570 E: 1657864.8400  
#4 REBAR IN LINE WITH N FACE OF CONCRETE MANHOLE STRUCTURE.  
1. 46.65' E TO NW CORNER OF MANHOLE STRUCTURE  
2. 71.15' EAST NORTHEAST TO CENTER OF ABANDONED SS MANHOLE  
3. 59.30' SE TO CHISELED "±" ON SE CORNER OF TELECOMMUNICATIONS MANHOLE SLAB,  
"BENCHMARK # 10"

Pt. No. 201  
N: 1664057.7570 E: 1657940.0000  
MAG NAIL IN ASPHALT PAVEMENT  
1. 100.00' EAST NORTHEAST TO "T" INTERSECTION OF ASPHALT DRIVES IN  
CHAPIN PARK, E, W AND N  
2. 28.00' S TO CHAIN LINK FENCE PI W AND SE  
3. 41.03' SE TO CHISELED "±" ON TOP OF SOUTH EDGE OF CONCRETE SIDEWALK,  
"BENCHMARK # 13"  
4. 1.80' S TO S EDGE OF ASPHALT PAVEMENT

Pt. No. 202  
N: 1662941.2060 E: 1658106.5090  
CHISELED "+" ON E SIDE OF SIDEWALK  
1. ±200' SW TO MANHOLE STRUCTURE  
2. 300' S TO CENTERLINE OF MACARTHUR RD.  
3. 200' W TO 6' WOOD PRIVACY FENCE N-S  
4. ±280' SOUTH SOUTHWEST TO SOUTH ENTRANCE TO CHAPIN PARK.

Pt. No. 203  
N: 1662018.5650 E: 1657924.3260  
#4 REBAR  
1. 7.40' W TO E EDGE OF ASPHALT DRIVE  
2. 14.80' E TO W KANSAS TURNPIKE AUTHORITY RIGHT OF WAY FENCE  
3. 30.00' NNE TO PAIR OF 24" ELM TREES  
4. ±630.00' N TO CENTERLINE OF MACARTHUR RD.

Pt. No. 204  
N: 1660485.0900 E: 1657872.2140  
#4 REBAR  
1. 50.00' W TO E KANSAS TURNPIKE AUTHORITY RIGHT OF WAY FENCE  
2. 30.00' EAST NORTHEAST TO CENTERLINE OF GRAVEL ACCESS ROAD FOR BOEING LANDFILL  
3. 450.00' S TO 6' CHAIN LINK FENCE, S END OF BOEING LANDFILL PROPERTY  
4. 34.12' N TO SE CORNER OF CONCRETE MANHOLE STRUCTURE

Pt. No. 205  
N: 1660031.5340 E: 1657760.0970  
T POST SET IN TOP OF DITCH. AKA "BENCHMARK # 19"  
1. ±10' N TO 6' CHAIN LINK FENCE, S END OF BOEING LANDFILL PROPERTY  
2. 46.57' EAST NORTHEAST TO NW CORNER OF N SS STRUCTURE  
3. 78.97' SE TO NW CORNER OF S SS STRUCTURE  
4. 46.82' ESE TO SW CORNER OF N SS STRUCTURE

Pt. No. 206  
N: 1656458.3810, E: 1657346.7870  
#4 REBAR IN GRASS NEAR SE CORNER OF 48TH STREET AND SPRUCE  
1. 4.00' E TO RIGHT OF WAY FENCE N-S  
2. 15.00' N TO CENTERLINE OF DIRT ACCESS DRIVE  
3. 34.00' W TO CENTERLINE OF SPRUCE ST.  
4. 130.00' N TO CONCRETE MANHOLE STRUCTURE

Pt. No. 207  
N: 1654508.7570 E: 1657411.0410  
#4 REBAR IN GRASS  
1. 34.00' WEST SOUTHWEST TO CENTERLINE OF SPRUCE ST.  
2. ±210.00' NNW TO CENTERLINE OF INTERSECTION OF SPRUCE AND 51ST ST. S  
3. 10.00' E TO STEEL CABLE RIGHT OF WAY FENCE  
4. 10.00' N TO SW CORNER OF CONCRETE SS STRUCTURE

Pt. No. 208  
N: 1653095.5710 E: 1657761.4850  
#4 REBAR IN GRASS AT SE CORNER OF SPRUCE AND LOCKWOOD  
1. 23.00' W TO CENTERLINE OF SPRUCE ST  
2. 40.00' N TO LINE OF LOCKWOOD ST W  
3. 6.50' S TO NE CORNER OF CURB INLET  
4. 53.50' N TO S SIDE OF WHEELCHAIR RAMP ON E SIDE OF SPRUCE ST.

Pt. No. 209  
N: 1650711.1530 E: 1657997.6270  
#4 REBAR IN GRASS ISLAND  
1. 250.00' W TO POWER POLE WITH OVERHEAD ELECTRIC WEST ONLY  
2. 388.00' W TO E EDGE OF ASPHALT DRIVE  
3. 500.00' WNW TO SE CORNER OF SOLID STORAGE FACILITY, COW SANITARY SEWER  
TREATMENT PLANT #2  
4. 310.00' S TO 6' CHAIN LINK FENCE E-W

Pt. No. 210  
N: 1650731.3520 E: 1657126.2050  
MAG NAIL AT N EDGE OF ASPHALT  
1. 11.00' S TO CENTERLINE OF 57TH ST S  
2. 250.00' W TO ENTRANCE GATE TO COW SANITARY SEWER TREATMENT PLANT #2  
3. 27.00' W TO CENTERLINE OF DRIVE SOUTH  
4. 275.00' EAST NORTHEAST TO SW CORNER OF SOLID STORAGE FACILITY, COW SANITARY SEWER  
TREATMENT PLANT #2

BM 10 - CHISELED "±" ON SE CORNER OF CONCRETE SLAB OF TELECOMMUNICATIONS  
MANHOLE, 30' S OF SANITARY SEWER STRUCTURE, N SIDE OF CHAPIN PARK.  
ELEV. = 1280.29 (NAVD 88)

BM 11 - T POST IN GRASS, APPROXIMATELY 35' NW OF NW CORNER OF PARKING AREA  
FOR RC AIRSTRIP IN CHAPIN PARK, 140' E OF GRAVEL BIKE PATH.  
ELEV. = 1283.02 (NAVD 88)

BM 12 - CHISELED "±" ON SW CORNER OF CONCRETE SLAB FOR TELECOMMUNICATIONS  
MANHOLE, SW OF PARKING AREA FOR RC AIRSTRIP IN CHAPIN PARK.  
ELEV. = 1279.02 (NAVD 88)

BM 13 - CHISELED "±" ON S EDGE OF CONCRETE SIDEWALK IN CHAPIN PARK, 25' E OF  
CHAIN LINK FENCE CORNER.  
ELEV. = 1286.34 (NAVD 88)

BM 14 - CHISELED "±" ON NW CORNER OF CONCRETE SANITARY SEWER STRUCTURE, 5'  
E OF E BOUNDARY FENCE FOR TRAILER PARK, N OF S ENTRANCE TO CHAPIN  
PARK.  
ELEV. = 1275.24 (NAVD 88)

BM 15 - CHISELED "±" NE CORNER OF CONCRETE SLAB FOR BEEHIVE SDM INLET, 125'  
NE OF MANHOLE STRUCTURE ON N SIDE OF MACARTHUR RD.  
ELEV. = 1273.19 (NAVD 88)

BM 16 - CHISELED "±" ON SE CORNER OF CONCRETE SLAB FOR TELECOMMUNICATIONS  
MANHOLE, 250' SOUTH SOUTHEAST OF INTERSECTION OF MACARTHUR RD. AND  
SPRUCE ST.  
ELEV. = 1273.14 (NAVD 88)

BM 17 - CHISELED "±" ON SW CORNER OF CONCRETE SLAB FOR TELECOMMUNICATIONS  
MANHOLE, W SIDE OF SPRUCE ST, 1250' S OF MACARTHUR RD.  
ELEV. = 1271.93 (NAVD 88)

BM 18 - CHISELED "±" ON NW CORNER OF CONCRETE SANITARY SEWER STRUCTURE.  
INSIDE BOEING LANDFILL PROPERTY, 12' E OF KANSAS TURNPIKE AUTHORITY  
RIGHT OF WAY FENCE.  
ELEV. = 1270.41 (NAVD 88)

BM 19 - T POST IN TOP OF N SIDE OF DRAINAGE DITCH AT S END OF BOEING LANDFILL  
PROPERTY, 60' W OF N CONCRETE SANITARY SEWER STRUCTURE.  
ELEV. = 1270.87 (NAVD 88)

BM 19A - CHISELED "±" ON SW CORNER OF CONCRETE SANITARY SEWER STRUCTURE,  
90' WEST SOUTHWEST OF NW CORNER OF COPART AUTO SALVAGE YARD.  
ELEV. = 1279.50 (NAVD 88)

BM 20 - CHISELED "±" ON NE CORNER OF CONCRETE MANHOLE STRUCTURE, 80' S OF  
N FENCE FOR BEELINE AUTO SALVAGE YARD.  
ELEV. = 1273.28 (NAVD 88)

BM 21 - CHISELED "±" ON SE CORNER OF CONCRETE MANHOLE STRUCTURE, INSIDE  
BEELINE AUTO SALVAGE YARD, ±250' E OF CENTERLINE OF MADISON ST.  
ELEV. = 1270.25 (NAVD 88)

BM 22 - CHISELED "±" ON SW CORNER OF CONCRETE MANHOLE STRUCTURE ON E SIDE  
OF SPRUCE ST. AND 100' N OF 48TH ST. S  
ELEV. = 1270.62 (NAVD 88)

BM 23 - CHISELED "±" ON NW CORNER OF CONCRETE MANHOLE STRUCTURE ON E SIDE  
OF RIGHT OF WAY FENCE, NE OF INTERSECTION OF 50TH ST S AND SPRUCE.  
ELEV. = 1269.96 (NAVD 88)

BM 24 - CHISELED "±" ON NE CORNER OF CONCRETE MANHOLE STRUCTURE, 30' S OF  
60" COTTONWOOD TREE ON E SIDE OF SPRUCE ST. ACROSS THE STREET FROM  
5219 SPRUCE ST.  
ELEV. = 1268.63 (NAVD 88)

BM 25 - CHISELED "±" ON SE CORNER OF CONCRETE MANHOLE STRUCTURE, NW OF NW  
CORNER OF HOUSE AT 5472 S. SPRUCE.  
ELEV. = 1265.70 (NAVD 88)

BM 26 - CHISELED "±" ON SW CORNER OF CONCRETE MANHOLE STRUCTURE, 75' E OF  
INTERSECTION OF 54TH ST. S AND SPRUCE ST.  
ELEV. = 1265.23 (NAVD 88)

BM 27 - CHISELED "±" ON NW CORNER OF CONCRETE MANHOLE STRUCTURE IN FIELD  
AT N END OF SANITARY SEWER TREATMENT PLANT #2, 550' ESE OF NE  
CORNER OF SOLID STORAGE FACILITY.  
ELEV. = 1263.99 (NAVD 88)

BM 28 - CHISELED "±" ON NW CORNER OF CONCRETE MANHOLE STRUCTURE, 15' S OF  
CHAIN LINK FENCE NORTH OF TRICKLING FILTERS AT COW SANITARY SEWER  
TREATMENT PLANT #2.  
ELEV. = 1267.93 (NAVD 88)

BM 29 - CHISELED "±" ON SE CORNER OF CONCRETE STRUCTURE, 45' N OF  
CENTERLINE OF ASPHALT DRIVE N OF TRICKLING FILTERS AT SANITARY SEWER  
TREATMENT PLANT #2  
ELEV. = 1265.35 (NAVD 88)

Pt. No. 100  
NORTHWEST CORNER, SEC 10, T28S, R1E  
N: 1,667,113.5040, E: 1,654,855.0260  
3/4" PIPE IN THIMBLE  
49.18' NORTHEAST TO NAIL AND CAP I NORTHWEST FACE OF POWER POLE  
45.63' SOUTHWEST TO NAIL AND CAP IN SOUTHEAST FACE OF LIGHT POLE  
38.52' NORTHWEST TO CHISELED CROSS ON TOP OF CURB, NORTH END OF  
NORTHWEST CURB RETURN  
24.47' EAST TO CHISELED CROSS ON TOP OF EAST CURB HYDRAULIC

Pt. No. 101  
SOUTHWEST CORNER, SEC 10, T28S, R1E  
N: 1,662,585.0280, E: 1,655,279.4500  
1/2" PIPE IN THIMBLE  
86.90' NORTHWEST TO CHISELED CROSS ON NORTHWEST CORNER OF TRAFFIC  
SIGNAL MANHOLE  
65.55' SOUTHWEST TO 3 NAILS IN NORTH FACE OF POWER POLE  
69.84' SOUTHEAST TO 3 NAILS IN POWER POLE

Pt. No. 102  
SOUTH 1/4 CORNER, SEC 10, T28S, R1E  
N: 1,662,623.0150, E: 1,657,912.5880  
1/2" PIPE IN THIMBLE WITH ORANGE CAP STAMPED CB KS CLS 179 IN  
C OF EAST BOUND LANES  
42.12' SOUTH SOUTHEAST TO CHISELED CROSS ON SOUTHWEST CORNER OF  
CONCRETE STRUCTURE  
79.70' EAST SOUTHEAST TO 40D NAIL IN SOUTHWEST FACE OF POWER POLE  
62.61' NORTH TO 40D NAIL IN WEST FACE OF POWER POLE  
22.54' NORTH TO 5/8" IRON IN CENTER LINE OF MACARTHUR ROAD

Pt. No. 103  
NORTHEAST CORNER, SEC 10, T28S, R1E  
N: 1,667,187.3180, E: 1,660,140.7820  
1/2" PIPE IN THIMBLE  
31.59' SOUTH TO CHISELED CROSS ON TOP OF CURB INLET  
69.79' NORTHEAST TO CHISELED CROSS ON TOP OF CURB, CENTER OF  
NORTHEAST CURB RETURN  
61.32' NORTHWEST TO CHISELED CROSS ON TOP OF CURB, CENTER OF  
NORTHWEST CURB RETURN  
37.84' SOUTHWEST TO CHISELED CROSS ON TOP OF SOUTH CURB OF 31ST  
STREET SOUTH

Pt. No. 104  
WEST 1/4 CORNER, SEC 15, T28S, R1E  
N: 1,659,925.3460, E: 1,655,315.9670  
1/2" PIPE  
40.87' EAST SOUTHEAST TO NAIL AND CAP IN SOUTH FACE OF POWER POLE  
45.78' SOUTHWEST TO MAG NAIL AND WASHER IN NORTHWEST FACE OF POWER  
POLE  
29.90' SOUTHEAST TO CHISELED CROSS ON TOP OF CURB  
60.29' NORTHWEST TO TOP CENTER OF FIRE HYDRANT

Pt. No. 105  
SOUTHWEST CORNER, SEC 15, T28S, R1E  
N: 1,657,269.9820, E: 1,655,350.0430  
1/2" PIPE IN THIMBLE  
70.26' NORTHEAST TO CHISELED CROSS ON NORTHERLY CORNER OF TRAFFIC  
MANHOLE  
64.06' NORTHEAST TO CHISELED CROSS ON TOP OF CURB, CENTER OF  
NORTHEAST CURB RETURN  
72.69' SOUTHEAST TO CHISELED CROSS ON NORTHWEST CORNER OF TRAFFIC  
MANHOLE  
64.88' SOUTHEAST TO CHISELED CROSS ON TOP OF CURB, CENTER OF  
SOUTHEAST CURB RETURN  
68.95' NORTHWEST TO CHISELED CROSS ON WESTERLY CORNER OF TRAFFIC  
MANHOLE

Pt. No. 106  
WEST 1/4 CORNER, SEC 22, T28S, R1E  
N: 1,654,685.5920, E: 1,655,380.0700  
1/2" PIPE IN THIMBLE  
30.09' WEST TO CHISELED CROSS ON WEST CURB HYDRAULIC AVENUE  
50.59' SOUTHEAST TO PK NAIL IN SOUTH FACE OF POWER POLE  
47.24' NORTHEAST TO PK NAIL IN SOUTH FACE OF POWER POLE

Pt. No. 107  
SOUTHWEST CORNER, SEC 22, T28S, R1E  
N: 1,652,037.4500, E: 1,655,418.2030  
1/2" PIPE IN THIMBLE  
32.43' EAST SOUTHEAST TO CHISELED CROSS ON TOP OF CURB  
44.96' NORTHEAST TO CHISELED CROSS ON TOP OF CURB  
49.45' NORTHWEST TO CHISELED CROSS ON TOP OF CURB  
45.32' NORTHWEST TO CHISELED CROSS ON TOP OF CURB

Pt. No. 108  
WEST 1/4 CORNER, SEC 27, T28S, R1E  
N: 1,649,384.2790, E: 1,655,458.9380  
1/2" PIPE IN THIMBLE  
42.21' WEST NORTHWEST TO PK NAIL IN SOUTH FACE OF POWER POLE  
34.60' SOUTHWEST TO CHISELED CROSS ON CURB INLET  
74.20' SOUTHEAST TO TOP CENTER OF FIRE HYDRANT  
68.21' SOUTH SOUTHEAST TO PK NAIL IN NORTH FACE OF POWER POLE  
32.42' NORTHEAST TO CHISELED CROSS ON TOP OF CURB

Pt. No. 109  
SOUTHWEST CORNER, SEC 23, T28S, R1E  
N: 1,651,300.1480, E: 1,660,435.0810  
REBAR AND 3/4" PVC PIPE OVER CENTER OF STONE, 12" DEEP  
64.42' NORTH NORTHWEST TO 60D NAIL AND CHASER IN WEST FACE OF  
48" COTTONWOOD STUMP  
687.92' WEST SOUTHWEST TO NAIL AND SAVOY WASHER IN NORTH FACE OF  
POWER POLE  
80.45' EAST NORTHEAST TO 3 NAILS IN SOUTHEAST FACE OF A POWER POLE  
7.00' NORTH TO SOUTH EDGE OF GRAVEL ROAD



Pt. No. 110  
SOUTHWEST CORNER, SEC 27, T28S, R1E  
N: 1,646,723.7390, E: 1,655,505.5700  
#4 REBAR WITH ARMSTRONG CAP AT CONCRETE ROAD SURFACE  
74.59' SOUTHEAST TO CHISELED "+" ON THE NORTHWEST CORNER OF SIGNAL  
POLE BASE  
74.65' NORTHEAST TO CHISELED "+" ON THE SOUTHWEST CORNER OF SIGNAL  
POLE BASE  
72.63' EAST NORTHEAST TO CHISELED "+" ON THE SOUTHEAST CORNER OF  
SIGNAL POLE BASE  
74.56' NORTH TO CHISELED "+" ON THE NORTHEAST CORNER OF SIGNAL POLE  
BASE

Pt. No. 111  
SOUTHWEST CORNER, SEC 14, T28S, R1E  
N: 1,656,541.6300, E: 1,660,316.1800  
ALUMINUM CAP 3" BELOW ASPHALT ROAD SURFACE  
24.30' SOUTH TO CHISELED "+" ON THE TOP OF CURB  
67.94' SOUTHEAST TO TOP CENTER OF CONCRETE POST  
24.52' NORTH TO CHISELED "+" ON THE TOP OF CURB  
84.27' NORTHEAST TO 3 NAILS IN THE SOUTHEAST FACE OF A POWER POLE  
57' WEST TO CENTERLINE OF JONQUIL STREET TO THE SOUTH

Pt. No. 113  
SOUTH 1/4 CORNER, SEC 27, T28S, R1E  
N: 1,646,766.7690, E: 1,658,139.0610  
3/4" PIPE, 0.15' BELOW ASPHALT ROAD SURFACE, ON C OF 63RD STREET SOUTH  
AND 271' WEST TO C OF GROVE STREET SOUTH  
69.58' SOUTHEAST TO 3 NAILS ON TOP OF FENCE POST  
69.68' NORTH NORTHEAST TO NAIL AND SHINER IN TO OF FENCE POST  
36.13' NORTHWEST TO CHISELED "+" ON TOP OF CURB  
35.72' SOUTHWEST TO CHISELED "+" ON TOP OF CURB

Pt. No. 114  
NORTH 1/4 CORNER, SEC 10, T28S, R1E  
N: 1,667,162.5940, E: 1,657,500.2020  
CHISELED "+" ON SIDEWALK  
33.35' EAST NORTHEAST TO 3 NAILS IN SOUTH FACE OF POWER POLE  
51.47' EAST SOUTHEAST TO NORTHWEST CORNER OF BUILDING  
69.88' WEST TO NORTHEAST CORNER OF BUILDING  
55.61' SOUTH SOUTHWEST TO CHISELED "+" ON NORTHEAST CORNER OF  
CONCRETE BASE OF MANHOLE  
±400.00' NORTH TO C OF OVERHEAD DOOR AT SOUTHWEST CORNER OF MAIN  
PUMP BUILDING AT C.O.W. SANITARY SEWER PLANT #1

Sowed 05-31-2017 2:33:13 PM by KIPRIS/DEKAT  
Plot Scale 1:1 07-17-2017 9:07:07 AM by KURIS/BEKAT  
U:\Wichita-Civil\2015\15554\001\Drawings\Phase 2\15554-001-CX102-HORIZONTAL AND VERTICAL CONTROL

No.	Revision	By	Date
<b>WASTEWATER PLANT 2</b> <b>INFLUENT FORCE MAIN - PHASE 2</b> <b>HORIZONTAL AND VERTICAL CONTROL</b> GARY JANZEN, P.E. - CITY ENGINEER CITY OF WICHITA PROJECT NO. 468-85202			
			
 PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA WICHITA, KS 67202 316-262-2691 www.pec1.com			
Designed by	MDK, TBK	Job No.	35-15554-1-0042
Drawn by	CSL, KTD	Date	NOVEMBER 2016
			SH.CA102 of 60