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- BENCHMARK LIST**
- BM #1 - CHIS. "d" ON THE TOP SOUTH SIDE OF LIGHT POLE BASE. ±430' NORTH OF THE NORTH LINE OF THE SOUTH 1/2 NW 1/4 SEC. 3 AND 2.36' E. OF THE WEST LINE OF SEC. 3, T27S, R1E. ELEV.= 1320.20 (NGVD 29)
  - BM #2 - CHIS. "d" ON THE TOP NORTH END OF THE SOUTH HEADWALL OF RCBC. ±996' W. AND ±136' N. OF THE NE COR. NW 1/4 SEC. 3, T27S, R1E. ELEV.= 1318.19 (NGVD 29)
  - BM #3 - FOUND RAILROAD SPIKE IN THE N. FACE OF GUY POLE, JUST S. OF THE UNION PACIFIC RAILROAD AND 1/2 MILE W. OF HILLSIDE AVE. ELEV.= 1331.815 (NGVD 29)
  - BM #4 - (CP #1003) SET "T" POST ± 16.5' S. OF THE S. TRACK FOR THE UNION PACIFIC RAILROAD AND ±1540' WEST OF HILLSIDE AVE. ELEV.= 1332.88 (NGVD 29)
  - BM #5 - (CP #1004) SET "T" POST ±18.5' S. OF THE S. TRACK FOR THE UNION PACIFIC RAILROAD AND ±710' WEST OF HILLSIDE AVE, ±20.5' E. OF THE CNTR. OF DRAINAGE DITCH TO THE S. ELEV.= 1336.825 (NGVD 29)
  - BM #6 - FOUND RAILROAD SPIKE ON THE N. FACE OF LIGHT POLE. ±60' S. OF THE UNION PACIFIC RAILROAD AND ±35' W. OF THE CNTR. OF HILLSIDE AVE. ELEV.= 1344.125 (NGVD 29)
  - BM #7 - SET CHIS. "d" ON TOP OF W. CURB NEW YORK ST. AT 2711 N. NEW YORK ST. ON THE CURB RETURN. ELEV.= 1317.47 (NGVD 29)
  - BM #8 - SET CHIS. "d" ON TOP OF W. CURB NEW YORK ST., ADJACENT TO POWER POLE AT 2645 N. NEW YORK ST. ELEV.= 1315.07 (NGVD 29)
  - BM #9 - SET 3" "T" POST 65' SSE OF CP #1009, 47' NNW OF THE HEARTLAND PREPAREDNESS CENTER PLAT CORNER #23. ELEV.= 1320.51 (NGVD 29)
  - BM #10- SET 3" "T" POST ±45' SSE OF CP #1010, 8' N. OF 2 TRACK RD. ELEV.= 1325.755 (NGVD 29)
  - BM #11- (CP #1011) SET 3" "T" POST ±65' NW OF THE N. TOP OF THE EAST BRANCH CHISHOLM CREEK. ±13' SE OF THE FENCE LINE, 558' NE TO THE HEARTLAND PREPAREDNESS CENTER PLAT CORNER #22. ELEV.= 1325.755 (NGVD 29)
  - BM #12- (CP #1012) SET 3" "T" POST IN THE FENCE LINE. ±45' N. OF THE N. TOP OF BANK EAST BRANCH CHISHOLM CREEK. 12' E. TO THE PIPELINE MARKER. ELEV.= 1320.785 (NGVD 29)
  - BM #13- (CP #1013) SET 3" "T" POST ON THE N. SIDE OF BANK EAST BRANCH CHISHOLM CREEK. ±50' NW OF THE HEARTLAND PREPAREDNESS CENTER PLAT CORNER #24. ELEV.= 1320.785 (NGVD 29)
  - BM #14- (CP #1014) SET 3" "T" POST IN THE NW CORNER OF LOT 7, BLOCK 1, POWER C.D.C. 3RD ADDITION. 30' NE TO SSMH #5650-013. IN LINE WITH SMALL ELM ROW TO THE S. ELEV.= 1322.60 (NGVD 29)
  - BM #15- TOP OF THE SW BOLT ON LIGHT POLE IN THE NW CORNER OF THE PARK. 50' N. OF PAVILION. ±86' E. OF CP #1015. ELEV.= 1332.66 (NGVD 29)
  - BM #16- SET CHIS. "d" ON THE E. SIDE OF CONCRETE SIDEWALK IN GROVE PARK ON THE WEST SIDE, ADJACENT TO THE CENTER COURT LINE OF THE BASKETBALL COURT. ELEV.= 1335.05 (NGVD 29)
  - BM #17- SET CHIS. "d" ON TOP OF CURB ON THE WEST SIDE OF SPRUCE AT THE END OF THE CURB. 2755 N. SPRUCE. ELEV.= 1335.05 (NGVD 29)
  - BM #18- SET CHIS. "d" ON TOP OF CURB IN THE CENTER APPROACH TO 27TH ST. N. ON THE W. SIDE OF GROVE. ±30' E. TO THE CENTER OF GROVE AND ±35' N. TO THE CENTER OF 27TH ST. N. TO THE E. ELEV.= 1342.73 (NGVD 29)

**CONTROL POINTS**

- Pt. No. 1000**  
 N: 38,716.0126, E: 37,660.4503  
 Set #4 Bar at the East edge of road, Mid point of curve.  
 1. At the East edge of road, Mid point of curve.  
 2. E. of I-135  
 3. In line with center of under pass at New York St.  
 4. In line with Gravel road to the N.
- Pt. No. 1001**  
 N: 40,548.3931, E: 40,004.3035  
 Set #4 Bar.  
 1. 1/2 mile W. of Hillside Ave.  
 2. ±36' S. of the S. track for UP RR near mile marker 481.  
 3. 16' WSW of Guy Pole with RR spike in N. face. BM #3.
- Pt. No. 1002**  
 N: 40,585.1424, E: 40,053.6604  
 Found #4 Bar  
 1. 61.5' NNE of CP #1001  
 2. ±1/2 mile W. of Hillside Ave.  
 3. ±18' S. of the S. track for UP RR near mile marker 481.  
 4. 45' ENE of Guy Pole with RR spike in N. face. BM #3.
- Pt. No. 1003 (BM #4)**  
 N: 40,997.3988, E: 41,142.2787  
 Set 3" "T" Post  
 1. Edge of Gravel along S. side of UP RR.  
 2. 16.5' S. of the S. track for UP RR.  
 3. ±28' W. of the W. edge of Heavy Brush.  
 4. ±1540' WSW of Hillside Ave. and the UP RR crossing.
- Pt. No. 1004 (BM #5)**  
 N: 41,278.0364, E: 41,920.1763  
 Set 3" "T" Post  
 1. 18.5' S. of the S. track for UP RR.  
 2. 20.5' E. of the center of the Drainage Channel to S.  
 3. ±710' WSW of Hillside Ave. and the UP RR crossing.
- Pt. No. 1005**  
 N: 41,501.7623, E: 42,539.7748  
 Found #4 Bar  
 1. NE corner of 3209 N. Hillside Ave.  
 2. 50' W of the center of Hillside Ave.  
 3. 25' S. of the center of UP RR tracks.
- Pt. No. 1006**  
 N: 38,462.8898, E: 37,352.1296  
 Set 60D Nail  
 1. Center of Concrete Joint in New York St.  
 2. ±36' S. of Point of Curve in road.  
 3. In front of 2711 N. New York St.
- Pt. No. 1007**  
 N: 38,423.3496, E: 37,697.1343  
 Set #4 Bar  
 1. ±4' E. of the E. fence line for I-135 Highway.  
 2. ±165' N. to the fence PI that goes S-W at the under pass at I-135 and New York St., on the E. side.
- Pt. No. 1008**  
 N: 37,623.3656, E: 37,354.3283  
 Set 60D Nail  
 1. Center of Concrete Joint in New York St.  
 2. Adjacent to Power Pole on W. side of road.  
 3. In front of 2645 N. New York St.
- Pt. No. 1009**  
 N: 39,509.3668, E: 39,004.6561  
 Set #4 Bar  
 1. N. of the East Branch Chisholm Creek.  
 2. W. of Drainage Channel.  
 3. 112.5' NNW of Heartland Preparedness Center Plat Corner #23.
- Pt. No. 1010**  
 N: 39,101.6105, E: 38,791.6746  
 Found #4 Bar with cap "CFS Control"  
 1. On the N. top of bank of the East Branch Chisholm Creek.  
 2. 127' N. to Heartland Preparedness Center Plat Corner #22.  
 3. ±23' E. of old cable that crosses East Branch Chisholm Creek.
- Pt. No. 1011 (BM #11)**  
 N: 38,764.8441, E: 38,470.7351  
 Set 3" "T" Post  
 1. 65' NW of top of bank of the East Branch Chisholm Creek.  
 2. ±15' SE of fence line.  
 3. 558' NE to Heartland Preparedness Center Plat Corner #22.
- Pt. No. 1012 (BM #12)**  
 N: 38,435.1841, E: 38,213.0538  
 Set 3" "T" Post  
 1. ±45' N. of N. top of bank of the East Branch Chisholm Creek.  
 2. In fence line.  
 3. 12' E. to NUSTAR Pipeline Marker.
- Pt. No. 1013 (BM #13)**  
 N: 39,613.9740, E: 39,542.4387  
 Set 3" "T" Post  
 1. N. side of the East Branch Chisholm Creek near SE corner of Heartland Preparedness Center Plat.  
 2. ±50' NW of Heartland Preparedness Center Plat corner #24.
- Pt. No. 1014 (BM #14)**  
 N: 38,572.1041, E: 38,657.7423  
 Set 3" "T" Post  
 1. In NW corner of Lot 7, Block 1, Power C.D.C.  
 2. ±36' E. of the center of Spruce.  
 3. ±25' N. of the N. line of 2756 N. Spruce.
- Pt. No. 1017**  
 N: 38,582.6738, E: 39,735.9824  
 Set #4 Bar  
 1. ±36' E. of the center of Spruce.  
 2. ±25' N. of the N. line of 2756 N. Spruce.
- Pt. No. 1018**  
 N: 38,588.2996, E: 40,047.2579  
 Found #4 Bar with cap "Baughman"  
 1. SE corner of Grove and 27th St. N.
- Pt. No. 1015**  
 N: 39,740.5822  
 Set #4 Bar  
 1. NW corner of Grove Park.  
 2. ±36' N. to the S. top of bank of East Branch Chisholm Creek.  
 3. ±16' W to center of Pine Tree row to S.  
 4. In line with sidewalk to S.  
 5. ±86' E. to BM #15
- Pt. No. 1016**  
 N: 38,986.2814, E: 39,744.0955  
 Set #4 Bar  
 1. At E. of sidewalk on W. side of Grove Park.  
 2. Adjacent to center court line of Basketball Court.  
 3. BM #16 on E. edge of sidewalk, adjacent to CP.

No.	Revision	By	Date
<b>HEARTLAND PREPAREDNESS CENTER WATERLINE IMPROVEMENTS</b> <b>HORIZONTAL AND VERTICAL CONTROL</b> JAMES L. ARMOUR, P.E. - CITY ENGINEER CITY OF WICHITA PROJECT NO. 448-90476 <i>Professional Engineering Consultants, P.A.</i> 303 S. TOPEKA • WICHITA, KANSAS 67202 316-262-2691 • FAX 316-262-3003			
Designed by	MDK	Job No.	35-09307-259
Drawn by	JLM	Date	January 2010
			Sht. 3 of 17