

### HORIZONTAL CONTROL POINTS

NO.	DESCRIPTION	N. COORDINATE	E. COORDINATE	REMARKS
1	3/8 PIN THIMBLE	20000.00	20000.00	℄ WATER & PINE
2	3/4 IP	21497.71	20000.00	℄ WATER & 9TH
3	3/4 IP THIMBLE	20990.17	20000.08	℄ WATER & 8TH
4	5/8 RB THIMBLE	20494.72	19999.95	℄ WATER & MURDOCK
6	V NOTCH-F	20448.37	19282.92	SE PROP. COR. MURDOCK & WACO
7	1/2 BPIN	20265.82	19379.00	
8	+CUT-F	20528.62	19585.75	NW PROP. COR. WICHITA & MURDOCK
9	+CUT-F	20527.25	19417.01	
10	+CUT-F	20404.11	19306.23	
11	VNOTCH-F	20448.03	19232.97	
12	NAIL	20946.48	19312.00	NW PROP. COR. LOT 112 BLK 2 MUNGERS ORIG. TOWN
13	NAIL	21021.26	19311.92	SW PROP. COR. LOT 1 BLK 1 McCLELLAND SOUND ADD.
14	THIMBLE	20987.08	19676.14	45° EAST ℄ WICHITA & 8TH ST.
15	1/2 IP	20948.85	19586.12	NE PROP. COR. LOT 127 BLK MUNGERS ORIG. TOWN
16	+F	21023.66	19586.31	SE PROP. COR. LOT 129 BLK MUNGERS ORIG. TOWN
17	1/2 RB	21911.34	19581.74	NE PROP. COR. LOT 924 BLK LEWELLENS ADD.
18	PK NAIL	22285.73	19580.91	NE PROP. COR. LOT 948 BLK LEWELLENS ADD.
19	3/4 IP THIMBLE	22320.71	19615.71	℄ WICHITA & 10TH
20	1IN IP THIMBLE	22324.79	20009.42	℄ WATER & 10TH
21	HILT NAIL	22294.79	20009.42	30' SOUTH ℄ WATER & 10TH
22	1IN IP THIMBLE	22990.70	19614.69	℄ WICHITA & 11TH
23	3/4 IP	22352.02	19220.35	SE PROP. COR. LOT 1002 BLK GREIFFENSTEINS 8TH ADD.
24	3/4 IP	22282.28	19217.38	NE PROP. COR. LOT 932 BLK. GREIFFENSTEINS ADD.
25	3/4 IP	22282.23	19217.22	
26	1/2 SAVOY	23039.38	19979.37	SE PROP. COR. LOT 1 BLK. TURNERS ADD.
27	3/4 IP	23027.34	19781.47	SE PROP. COR. LOT 1153 BLK. LEWELLENS ADD.
28	1IN IP	23037.47	19811.31	SW PROP. COR. LOT 1 BLK. TURNERS ADD.
29	+F	23040.05	20039.35	SW PROP. COR. LOT 10 BLK. TURNERS ADD.
30	SM V-F	23043.92	20411.42	.94' WEST OF SW PROP. COR. LOT 270 BLK. FERRELLS ADD.
31	3/4 IP	22846.26	20102.63	SW PROP. COR. LOT 4 BLK. 2 MIDTOWN 4TH
32	3/4 IP THIMBLE	23639.39	20008.94	30' SOUTH ℄ 12TH & WATER
33	+F	23639.72	20039.15	NW PROP. COR. LOT 48 BLK. TURNERS ADD.
34	+F	23642.84	20320.53	
35	3/4 IP THIMBLE	23703.97	20322.19	
36	+F	23371.31	20326.51	
37	1IN BARTHIMBLE	23708.67	20735.38	30' NORTH ℄ 12TH & MARKET
38	CONC. NAIL-F	23678.67	20735.41	℄ 12TH & MARKET
39	1/2 SRB	24298.48	20411.65	NW PROP. COR. LOT 1245 BLK. BUSH'S ADD.
40	1/2 SRB	24300.40	20598.69	℄ ABANDONED MPRR & SOUTH R/W OF 13TH ST.
41	3/4 IP THIMBLE	24301.92	20734.46	30' SOUTH ℄ 13TH & MARKET
42	1/2 IP	24219.37	20272.41	
43	CENTER THIMBLE	24297.99	20366.63	30' SOUTH ℄ 13TH & MAIN
44	1/2 IP	24533.42	20772.33	NW PROP. COR. LOT 4 BLK. HARTLE ADD.
45	3/4 IP	24623.17	20772.40	WEST PROP. COR. LOT 9 BLK. HARTLE ADD.
46	3/4 IP THIMBLE	24993.37	20708.99	23.66° WEST ℄ 14TH & MARKET
47	3/4 IP THIMBLE	24996.09	21071.30	NE PROP. COR. LOT 15 BLK. HARTLE ADD.
48	3/4 IP THIMBLE	25658.85	21070.38	30.47° WEST OF ℄ 15TH & BROADWAY
49	3/4 IP THIMBLE	25625.20	20730.98	30' SOUTH ℄ 15TH & MARKET
50	1 IN BARTHIMBLE	22327.80	20322.53	45° WEST ℄ 10TH & MAIN
51	+F	22328.73	20412.55	45° EAST ℄ 10TH & MAIN
500	+F	21497.71	20000.00	SAME AS NO. 2

### GENERAL NOTES:

- UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN DRAWN FROM AVAILABLE RECORDS. THE RELATIONSHIP BETWEEN PROPOSED WORK AND EXISTING FACILITIES, STRUCTURES AND UTILITIES MUST BE CONSIDERED APPROXIMATE AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXACT LOCATION AND THE EXISTENCE OF ANY NOT SHOWN, BY CONTACTING KANSAS ONE-CALL CENTER AT (316) 687-2470 A MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF DIGGING OPERATIONS.
- CONTRACTOR SHALL COMPLY WITH STORMWATER POLLUTION PREVENTION PLAN ON FILE WITH K.D.H.E. EROSION CONTROL BMP'S ARE INDICATED ON PLAN/PROFILE SHEET 4-20
- THE CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN FOR WORK AREAS WITHIN PUBLIC STREET R/W, FOR APPROVAL BY THE ENGINEER PRIOR TO ANY CONSTRUCTION OR TRAFFIC INTERRUPTION IN THOSE AREAS.
- REMOVAL AND DISPOSAL OF TREES, FENCES, SIGNS, POLES, RUBBLE, AND MISCELLANEOUS STRUCTURES SHALL BE SUBSIDIARY TO THE BID ITEM "SITE CLEARING".
- CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY IRRIGATION EQUIPMENT THAT IS DAMAGED DURING CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL NOT BE RESPONSIBLE FOR PRE-EXISTING DAMAGES AND SHALL NOTIFY CITY STAFF AND PROPERTY OWNER OF THOSE DAMAGES PRIOR TO COMMENCING CONSTRUCTION.
- CONTRACTOR SHALL VERIFY CONDITION OF EXISTING SIDEWALKS DESIGNATED TO REMAIN, PRIOR TO COMMENCING CONSTRUCTION OPERATIONS. DAMAGED SECTIONS OF SIDEWALKS DESIGNATED TO REMAIN ARE TO BE REPLACED BY CONTRACTOR WITH APPROVAL OF ENGINEER, AT THE UNIT BID PRICE FOR 4" CONCRETE WALK PAVEMENT
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL UTILITIES, PAVING, SIDEWALKS, WALLS, AND SIGNS, DAMAGED BY CONSTRUCTION OPERATIONS AT NO COST TO THE PROJECT.
- CONTRACTOR SHALL CLEAN SURFACE OF SIDEWALKS DESIGNATED TO REMAIN OF EXISTING PAINT, TAR, SOIL, DEBRIS, ETC. BEFORE INSTALLATION OF ADJACENT BIKE PATH PAVEMENT. WEEDS AND GRASSES ARE TO BE REMOVED FROM EXISTING SIDEWALK JOINTS AND DAMAGED EXPANSION JOINT MATERIALS SHALL BE REPLACED.
- FILL MATERIAL IS TO BE PLACED IN LAYERS SIX TO EIGHT INCHES THICK, THOROUGHLY COMPACTED TO A MINIMUM OF 90% OF DRY DENSITY AT OPTIMUM MOISTURE CONTENT, EXCEPT WHERE NOTED OTHERWISE.
- RUBBLE FROM THE REMOVAL OF STRUCTURES AND EXCESS EXCAVATION WHICH IS TO BE WASTED SHALL BE DISPOSED OF ON SITES TO BE PROVIDED BY THE CONTRACTOR. THESE SITES SHALL BE APPROVED BY THE ENGINEER AS TO SUITABILITY, APPEARANCE AND SITE LOCATION. LOCATIONS THAT, IN THE OPINION OF THE ENGINEER, WILL LEAVE AN UNSIGHTLY APPEARANCE WILL NOT BE APPROVED.
- ALL DISPOSAL SITES MUST BE APPROVED BY THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT. MATERIAL EITHER STOCKPILED OR DISPOSED OF IN A FLOOD PLAIN WOULD REQUIRE A KANSAS STATE BOARD OF AGRICULTURE PERMIT. ANY MATERIAL DUMPED IN WATERS OF THE UNITED STATES OR WETLANDS IS SUBJECT TO U.S. CORPS PERMITTING REGULATIONS. ANY MATERIAL BURIED OR STOCKPILED BEYOND APPROVED OF ENGINEERS CONSTRUCTION LIMITS WOULD REQUIRE ADDITIONAL ARCHEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS WHICH ARE SHOWN ON THE PLANS. THE CONTRACTOR WILL RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.
- THE CONTRACTOR SHALL GIVE ALL PROPERTY OWNERS AND/OR TENANTS OF DEVELOPED PROPERTY DIRECTLY ADJUTING THE CONSTRUCTION OF THIS PROJECT A MINIMUM OF TEN (10) DAYS ADVANCE NOTICE PRIOR TO START OF CONSTRUCTION.
- EXCAVATION, FILL, COMPACTION, BORROW, AND GRADING OF SUBGRADE AND FINISH GRADE TO BE INCIDENTAL TO PAVEMENT BID ITEMS.
- ALL STATION/OFFSET DISTANCES ARE FROM PROJECT BASELINE.
- THE CONTRACTOR SHALL RESTORE TO THE ORIGINAL OR BETTER CONDITION, ADJACENT PROPERTY DISTURBED BY CONSTRUCTION OF THIS PROJECT.
- SODDED AREAS SHALL BE LAID IN SUCH A WAY AS TO FORM A SOLID MASS WITH TIGHT-FITTED JOINTS. BUTT ENDS AND SIDES OF SOD; DO NOT STRETCH OR OVERLAP. STAGGER SOD STRIPS OR PADS TO OFFSET JOINTS IN ADJACENT COURSES. TAMP OR ROLL LIGHTLY TO ENSURE CONTACT WITH SUBGRADE, ELIMINATE AIR POCKETS, AND FORM A SMOOTH SURFACE. ANCHOR SOD ON SLOPES WITH WOOD PEGS, A MINIMUM OF TWO (2) PEGS PER STRIP.

- ALL LAWN/TURF AREAS DISTURBED BY CONSTRUCTION SHALL BE RESTORED WITH THE SAME SOD AS EXISTING. RESTORATION OF DISTURBED AREAS SHALL INCLUDE, BUT NOT BE LIMITED TO, TOP SOIL PREPARATION AND SODDING. ALL SODDING WORK SHALL BE IN ACCORDANCE WITH CITY STANDARD SPECS. AND THE CITY ADMINISTRATIVE REGULATION NO. AR78, WHICH GOVERNS CLEANUP AND RESTORATION OR REPLACEMENT FOLLOWING CONSTRUCTION.  
  
AREAS TO BE RESTORED WITH SOD SHALL BE PAID AS SQAURE YARDS "SODDING". WHEN THE WEATHER/SEASON PREVENTS THE INSTALLATION OF SOD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING EROSION CONTROL BLANKET (CURLEX I, OR APPROVED EQUAL) AT THE BACK OF CURB (8' WIDE MINIMUM). ALL COSTS FOR EROSION MAT INSTALLATION SHALL BE SUBSIDIARY TO "SITE RESTORATION".

- THE CONTRACTOR SHALL RESEED ALL NON-LAWN/TURF AREAS DISTURBED BY CONSTRUCTION WITH A MIXTURE OF RYEGRASS (APPLIED AT A RATE OF 200LBS./ACRE AND FESCUE, BERMUDA, OR BUFFALO GRASS, DEPENDING ON THE SOIL CONDITIONS (APPLIED PER STANDARD SPECS). PURE NITROGEN FERTILIZER SHALL ALSO BE APPLIED AT A RATE OF 1.5LBS/THOUSAND SQUARE FEET. THE SEED SHALL BE WATERED WITH DEEP SOAKING EVERY TWO (2) WEEKS DURING DRY PERIODS UNTIL A MATURE STAND OF GRASS IS OBTAINED.

TURF SEED USED IN THE RESTORATION OF TURF AREAS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BLEND WITH EXISTING GRASS COVER. CONTRACTOR SHALL PREPARE SEEDING AREA BEFORE PLANTING BY FILLING DEPRESSIONS WITH TOPSOIL, THEN LEVELING AREA WITH A LANDSCAPE BOX. AREA SHALL BE SEEDED AT RATE SPECIFIED BY SEED SUPPLIER, LIGHTLY RAKED OR DRAGGED. EROSION PROTECTION SHALL BE APPLIED TO SLOPES 1:10 OR STEEPER.

- AREAS TO BE RE-SEEDED SHALL BE PAID AS SQUARE YARDS "PERMANENT SEEDING". THE PERMANENT SEEDING MAY BE OMITTED ONLY IF SODDING IS REQUIRED IN ACCORDANCE WITH PREVIOUS GENERAL NOTE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING EROSION CONTROL BLANKET (CURLEX I, OR APPROVED EQUAL), TO AND INCLUDING THE LIMITS OF ALL SEEDED AREAS. ALL COSTS FOR THIS WORK SHALL BE SUBSIDIARY TO THE SEEDING BID ITEM.

PAVEMENT MARKINGS - ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC (COLD PLASTIC). PAVEMENT MARKINGS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND SHALL MEET KDOT'S 90M-100-100 SPECIFICATION (CITY STANDARD SPECS.) FULL TRAFFIC MAY NOT BE RESTORED (AND SUBSTANTIAL PROJECT COMPLETION ACHIEVED) UNTIL ALL PAVEMENT MARKINGS ARE IN PLACE.

SHOULD CONSTRUCTION TIMING BE SUCH THAT RESTORATION OF TRAFFIC BECOMES NECESSARY DURING TEMPERATURES PROHIBITING THE INSTALLATION OF THERMOPLASTIC MARKINGS, THE CONTRACTOR SHALL INSTALL AND MAINTAIN TEMPORARY MARKINGS UNTIL SUCH TIME THAT THERMOPLASTIC MARKINGS MAY BE PROPERLY INSTALLED. EXCEPT FOR THE MATERIAL REQUIREMENT, TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED EQUIVALENT, IN EVERY MANNER (I.E. DIMENSION, FREQUENCY, SPACING, ETC.) TO THE PERMANENT MARKING LAYOUT. THE COST FOR TEMPORARY PAVEMENT MARKINGS WILL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED SUBSIDIARY TO THE BID ITEM FOR "PAVEMENT MARKINGS".

- THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ALL SITE AMENITIES (BENCHES, TRASH RECEPTACLES, COLUMNS, CUSTOM BOLLARDS, BIKE RACKS, AND DRINKING FOUNTAINS). ALL MANUFACTURED ITEMS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND RECOMENDATIONS. ALL LOCATIONS OF THESE ITEMS TO BE APPROVED IN THE FIELD PRIOR TO FINAL INSTALLATION.
- THE CONTRACTOR IS RESPONSIBLE FOR APPLICATION OF ANTI-GRAFFITTIANT SEALER SYSTEM ON ALL COLUMNS AND CUSTOM BOLLARDS. APPROVED PRODUCT: PROFESSIONAL WATER SEALANT AND ANTI-GRAFFITI SYSTEM (OR APPROVED EQUIVALENT) AS MANUFACTURED BY: PROFESSIONAL PRODUCTS OF KANSAS, INC. 4456 S. CLIFTON, WICHITA, KS 67216 800-676-7346

### ARTIST WORK:

- THE SCOPE OF THE ARTIST WORK IS AS FOLLOWS: FABRICATION AND INSTALLATION OF TWO (2) STEEL ARCH FEATURES FABRICATION OF 14 CUSTOM BOLLARDS
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF THE 14 CUSTOM BOLLARDS AT LOCATIONS SHOWN ON THE PLANS.
- THE ARTIST SHALL SUBMIT SHOP DRAWINGS FOR THE STEEL ARCH PRIOR TO FABRICATION OF THESE ELEMENTS FOR REVIEW AND APPROVAL.

### SITE AMENITIES

- DRINKING FOUNTAIN: QUANTITY: 1  
MODEL 2002 HISTORICAL SURFACE MOUNT FREEZE RESISTANT (OR APPROVED EQUIVALENT)  
INCLUDE RECESSED HOSEBIB W/LOCKING DOOR  
INCLUDE BOWL SAND STRAINER  
COLOR: BLACK  
AS MANUFACTURED BY:  
MOST DEPENDABLE FOUNTAINS  
5705 COMMANDER DR. ARLINGTON, TN 38002  
(800) 552-6331
- BENCHES: QUANTITY 10  
DuMor BENCH-58 (OR APPROVED EQUIVALENT)  
COLOR: BLACK  
MOUNTING: SURFACE  
SIZE: 6' With Middle Armrest  
AS MANUFACTURED BY:  
DuMor, INC.  
P.O. BOX 142 MIFFLINGTON, PA 17059  
(717) 436-2106 ph  
(717) 436-9839 fax
- TRASH RECEPTACLES: QUANTITY 6  
DuMor RECP TACLE 157-22-25BT (OR APPROVED EQUIVALENT)  
COLOR: BLACK  
MOUNTING: EMBED  
INCLUDE INSERT  
AS MANUFACTURED BY:  
DuMor, INC.  
P.O. BOX 142 MIFFLINGTON, PA 17059  
(717) 436-2106 ph  
(717) 436-9839 fax
- BIKE RACK: QUANTITY 6  
DuMor BIKE RACK 83 (OR APPROVED EQUIVALENT)  
COLOR: POWDERCOAT BLACK  
MOUNTING: EMBED  
AS MANUFACTURED BY:  
DuMor, INC.  
P.O. BOX 142 MIFFLINGTON, PA 17059  
(717) 436-2106 ph  
(717) 436-9839 fax
- CONCRETE PAVERS:  
PAVESTONE HOLLAND STONE HERITAGE SERIES (OR APPROVED EQUIVALENT)  
COLOR: ANTIQUE RED  
AS MANUFACTURED BY:  
PAVESTONE, INC.  
LEE'S SUMMIT, MO  
(816) 524-9900 ph  
(816) 524-9901 fax
- STREET CLOCK: (ADD ALTERNATE BID ITEM #1)  
HOWARD II REPLICA, MODEL 4Z (OR APPROVED EQUIVALENT)  
COLOR: BLACKW/ GOLD TRIM WORK  
2 DIAL CLOCK  
AS MANUFACTURED BY:  
THE VERDIN COMPANY  
444 READING ROAD, CINCINNATI, OH  
(800) 543-0488

### BENCHMARKS:

C.O.W. BRASS CAP ON WALK LITTLE ARKANSAS RIVER MURDOCK. NE COR. BRIDGE  
ELEV. 1306.22

"□" T.C. WEST RETURN @ NW COR. WICHITA & MURDOCK.  
ELEV. 1302.62

"□" T.C. EAST RETURN @ SE COR. WICHITA & PINE (WEST SIDE INLET)  
ELEV. 1300.49

N 20000.00 E 20000.00  
3/8" PIN IN THIMBLE ℄ PINE & WATER  
ELEV. 1300.90


N 20948.85 E 19586.12  
1/2" IP BLOCK COR. @ SW COR. 8TH & WICHITA  
ELEV. 1302.72

N 21530.28 E 19596.83  
"□" T.C. NORTH RETURN @ NW COR. WICHITA & 9TH ST.  
ELEV. 1304.56

"□" T.C. EAST RETURN @ NE COR. WELLINGTON & 11TH  
ELEV. 1305.17

"□" T.C. EAST RETURN @ SE COR. MARKET & 14TH  
ELEV. 1306.08

N 19997.03 E 19675.84  
1/2" IP THIMBLE EAST R.O.W. @ WICHITA & PINE ℄  
ELEV. 1300.34

<b>MIDTOWN BIKEPATH/GREENWAY GENERAL NOTES WICHITA, KANSAS</b>		<b>Ruggles &amp; Bohm, P.A.</b> Engineering, Surveying, Land Planning	OWNER TCR
		DRAWN EJB	CHECKED 288BT
624 North Main Wichita, Kansas 67208 www.rbkansas.com		(316) 264-8808 (316) 264-4821 fax E-mail: info@rbkansas.com	OWNER 2
ISSUED FOR Eng. Base {Gen Notes}	PROJECT NUMBER 472 84008	DATE May 16, 2008	OF 70