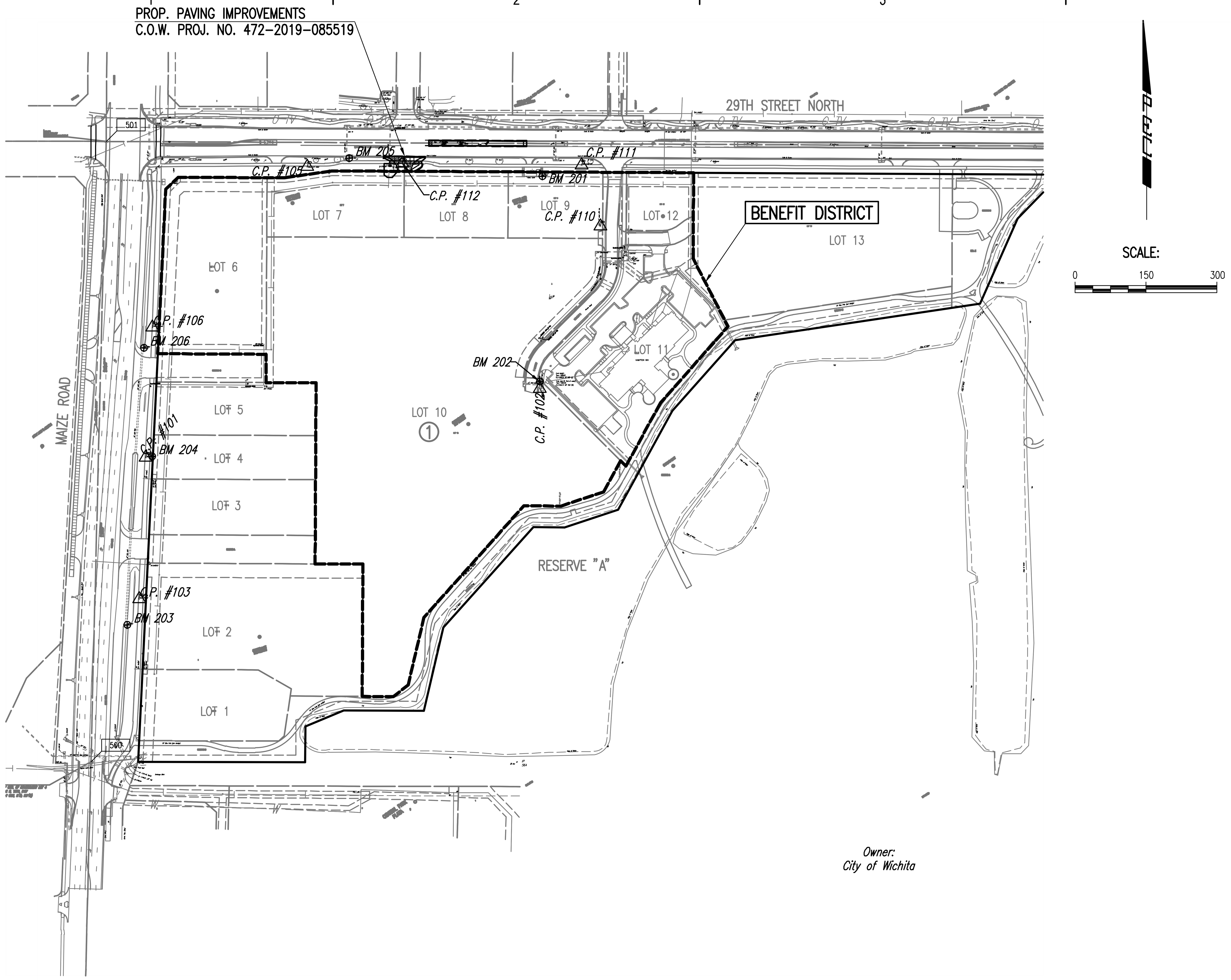

GENERAL NOTES

1. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY REGULATIONS. ALL CONSTRUCTION SHALL BE COMPLETED FOLLOWING CURRENT CITY STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

2. CONTRACTOR WILL BE REQUIRED TO PROVIDE NOTICE TO UTILITY COMPANIES A MINIMUM OF SEVENTY-TWO (72) HOURS PRIOR TO ANY EXCAVATION, AS FOLLOWS:

   KANSAS ONE-CALL 687-2470

   THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF AN EMERGENCY:

AT&T	1-800-246-8464
BLACK HILLS ENERGY	1-800-694-8989
CITY OF WICHITA WATER	1-316-268-4555
CITY OF WICHITA SEWER	1-316-268-4073
CITY OF WICHITA STORMWATER	1-316-268-4090
CITY OF WICHITA TRAFFIC	1-316-268-4034
COX COMMUNICATIONS	1-888-249-3530
KANSAS GAS SERVICE	1-888-482-4950
WESTAR ENERGY	1-800-544-4857

3. UTILITY SERVICE LINES, POLES, ETC. ARE TO BE ADJUSTED AS NECESSARY BY OTHERS PRIOR TO CONSTRUCTION UNLESS THE PLANS SPECIFICALLY CALL FOR THEIR ADJUSTMENT BY THE CONTRACTOR OR UNLESS THE PLANS SPECIFICALLY IDENTIFY A UTILITY TO BE ADJUSTED BY ITS OWNER DURING CONSTRUCTION. EXISTING UTILITIES AND THEIR LOCATION, AS SHOWN ON THE PLANS, REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND EXISTING UTILITIES WITHIN THE RIGHT-OF-WAY WHICH DO NOT CONFLICT WITH PROPOSED CONSTRUCTION.

4. RUBBLE FROM THE REMOVAL OF MISCELLANEOUS 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, IN THE OPINION OF THE ENGINEER, THAT 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 WILL 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 OF ENGINEERS PERMITTING REGULATIONS. ANY MATERIAL BURIED OR STOCKPILED BEYOND APPROVED CONSTRUCTION LIMITS WILL REQUIRE ADDITIONAL ARCHAEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATION.

5. TREES AND SHRUBS IN PUBLIC RIGHT-OF-WAY WHICH ARE IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE REMOVED BY THE CONTRACTOR WITH THE ENGINEER'S APPROVAL. TREES AND SHRUBS WHICH ARE NOT IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE SAVED AND PROTECTED FROM DAMAGE.

6. THE CONTRACTOR SHALL GIVE ALL PROPERTY OWNERS AND/OR TENANTS OF DEVELOPED PROPERTY ABUTTING THE CONSTRUCTION OF THIS PROJECT A MINIMUM OF TEN (10) DAYS NOTICE PRIOR TO START OF CONSTRUCTION.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR WILL BE REQUIRED TO 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.

8. THE WATER DISTRIBUTION DIVISION SHALL FIELD LOCATE WATER VALVES ONE TIME DURING CONSTRUCTION WHEN REQUESTED BY THE CONTRACTOR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PRESERVE SUCH FIELD LOCATIONS DURING THE CONSTRUCTION PROCESS. WATER VALVES, VALVE BOXES OR FIRE HYDRANTS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY CONTRACTOR AT HIS OWN EXPENSE. VALVE BOXES AND WATER METERS WITHIN THE PROJECT LIMITS SHALL BE ADJUSTED TO MATCH FIELD GRADES.

9. IF TRAFFIC WILL BE IMPACTED BY CONSTRUCTION, A TRAFFIC CONTROL PLAN MUST BE SUBMITTED AND APPROVED BY THE CITY TRAFFIC ENGINEER, BRIAN COON AT TRAFFIC@WICHITA.GOV BEFORE CONSTRUCTION CAN BEGIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL MEASURES TO FACILITATE CONSTRUCTION. ALL CONSTRUCTION ZONE MARKINGS AND SIGNAGE SHALL CONFORM TO THE LATEST VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AS PUBLISHED BY THE US DEPT. OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION. ALL COSTS ASSOCIATED WITH CONSTRUCTION MARKINGS AND SIGNAGE SHALL BE THE CONTRACTORS RESPONSIBILITY.

10. ALL ELEVATIONS SHOWN ARE NAVD 88. (NAVD88 -0.47'=NGVD, NGVD - 1187.4= CITY DATUM)

11. ALL AREAS DISTURBED DURING CONSTRUCTION THAT WILL NOT BE UNDER PROPOSED PAVEMENT SHALL BE SEEDED AND MULCHED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. SEED SHALL BE RYE. THIS WORK SHALL BE PAID FOR AS THE CONTRACT LUMP SUM PRICE BID FOR "SEEDING, TEMPORARY".

12. ALL EXISTING PAVEMENT AND CURB AND GUTTER WITHIN THE CONSTRUCTION LIMITS SHALL BE SAW CUT, FULL DEPTH, TO THE LINES SHOWN ON THE PLANS, OR TO THE NEAREST JOINT, AND REMOVED, UNLESS OTHERWISE NOTED. IF REMOVAL LIMITS ARE WITHIN THREE FEET OF A JOINT, REMOVE TO THE JOINT.

13. ALL TRAFFIC CONTROL DEVICES IN THE WORK ZONE (INCLUDING MARKINGS AND SIGNS) AND THEIR INSTALLATION AND MAINTENANCE SHALL COMPLY WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL TRAFFIC CONTROL DEVICES IN THE TRAVELED WAY OR CLEAR ZONE SHALL BE CRASHWORTHY (NCHRP Report 350 or MASH compliant). http://safety.fhwa.dot.gov/roadway_dept/policy_guide/road_hardware/wzd

14. ALL CONSTRUCTION EQUIPMENT, INCLUDING VEHICLES, MATERIALS, AND DEBRIS, SHALL BE STORED OUTSIDE OF THE CLEAR ZONE. WHERE THIS CANNOT BE ACHIEVED THE CONTRACTOR SHALL PLACE APPROPRIATE SIGNS, OBJECT IDENTIFIERS, AND/OR BARRICADES IN COMPLIANCE WITH THE MUTCD.

15. EXCEPT WHEN REQUIRED FOR SAFETY, TRAFFIC CONTROL SHALL NOT BLOCK ANY LANES OR SIDEWALKS WHEN WORK IS NOT BEING PERFORMED.

16. EACH BIDDER SHALL VISIT THE SITE OF THE PROJECT BEFORE SUBMITTING THE PROPOSAL FOR THIS WORK SO THAT HE WILL BE FULLY INFORMED OF THE EXISTING FIELD CONDITIONS AND THE OBSTACLES WHICH MIGHT BE ENCOUNTERED. UPON AWARD OF THE CONTRACT THE CONTRACTOR WILL NOT BE GRANTED ANY ADDITIONAL COMPENSATION WITH REGARDS TO TIME AND MONEY FOR CONDITIONS THAT MAY HAVE BEEN EVALUATED DURING ANY INSPECTION OF THE SITE.

17. FIELD LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING ANY EXCAVATION WORK. CONTACT THE KANSAS-ONE-CALL SYSTEM AT 811 AT LEAST 72 HOURS IN ADVANCE TO REQUEST FIELD LOCATES. FOR UTILITIES THAT ARE NOT MEMBERS OF THE KANSAS-ONE-CALL SYSTEM, CONTACT THOSE COMPANIES DIRECTLY.

18. THE CONTRACTOR SHALL ADHERE TO THE LATEST ADA REGULATIONS. ANY DISCREPANCIES WITH GRADES SHOWN SHALL BE REPORTED TO THE ENGINEER FOR RESOLUTION PRIOR TO PLACEMENT OF PAVEMENT, INCLUDING CONCRETE WALKS. THE CONTRACTOR SHALL COMPLY TO THE FOLLOWING GRADING REQUIREMENTS FOR ADA ACCESSIBLE ROUTES:

    CURB RAMPS - SLOPE NOT TO EXCEED 1:12

    CONCRETE WALKS - LONGITUDINAL SLOPE NOT TO EXCEED 5%
    TRANSVERSE SLOPE NOT TO EXCEED 2%.

    LANDING AREAS - SLOPE NOT TO EXCEED 2% IN ALL DIRECTIONS
    5' LANDING AREA REQUIRED AT DOOR ENTRANCES AND CURB RAMPS.

EARTHWORK SUMMARY

ALIGNMENT	UNCLASSIFIED EXCAVATION (CU. YD.)	EMBANKMENT (CU. YD.)
29th Street North	214	14
TOTAL	214	14

No Shrinkage Factor has been applied.

The quantity shown for "Unclassified Excavation" is measured from the Original Ground Line to the Finished Subgrade Line or Finished Ground Line as shown on the Cross Sections.

Only satisfactory soil shall be used in the construction of embankments.

Any double-handling and/or stockpiling of excavated material which may be required will not be measured or paid for separately, but shall be Subsidiary to the Contract Unit Price bid for "Unclassified Excavation".

Estimated Excess Material at Project Completion = 214-(14/0.85)=198 Cu. Yd. (assumes 15% shrinkage)

All unpaved areas disturbed by construction shall be graded smooth, sloped to drain and seeded/fertilized/mulched in accordance with the Erosion Control Plan.

BENCH MARK LIST

BMK-201 - SQUARE CUT ON TOP OF THE RETAINING WALL AT THE SOUTHEAST CORNER OF THE CONCRETE PAD FOR THE ELECTRIC TRANSFORMER #10105 ON THE SOUTH SIDE OF 29TH ST N AND 800 FT EAST OF THE BIKE PATH ON THE EAST SIDE OF N MAIZE RD.
ELEV.= 1352.00 NAVD88

BMK-202 - SQUARE CUT ON THE NORTHEAST CORNER OF THE CURB INLET LID ON THE EAST SIDE OF THE STREET, SOUTHWEST OF THE HAMPTON INN.
ELEV.= 1350.72 NAVD88

BMK-203 - SQUARE CUT ON THE NORTHEAST CORNER OF THE HEADWALL, SOUTH OF THE 2ND DRIVE SOUTH OF 29TH ST. N, ALONG N. MAIZE RD. (NOT SHOWN)
ELEV.= 1350.84 NAVD88

BMK-204 - "X" CUT ON THE NORTH RIM OF THE TELEPHONE DUCT BANK MANHOLE, BETWEEN THE 2 DRIVES TO THE EAST, SOUTH OF 29TH ST. N ALONG N MAIZE RD.
ELEV.= 1350.51 NAVD88

BMK-205 - SQUARE CUT ON THE TOP OF CURB, EAST OF THE CURB INLET WEST OF THE MAIN ENTRANCE TO SAM'S CLUB ALONG 29TH ST. N
ELEV.= 1351.65 NAVD88

BMK-206 - SQUARE CUT ON THE SOUTHEAST CORNER OF THE HEADWALL OF THE DITCH CULVERT ON THE NORTH SIDE OF THE 1ST DRIVE SOUTH OF 29TH ST. N ALONG N MAIZE RD.
ELEV.= 1351.35 NAVD88

CONTROL POINTS

CP-101
N- 9597.4580, E- 5211.7520
PK NAIL IN THE WEST EDGE OF ASPHALT BIKE PATH.
1. 13.7' E TO THE TELEPHONE DUCT BANK MANHOLE.
2. 17.9' ENE TO THE NORTHEAST CORNER OF THE EAST WINGWALL.

CP-102
N- 9744.0440, E- 6045.6890
1/2" REBAR WITH PEC CONTROL CAP SET FLUSH WITH GROUND, SOUTHWEST OF THE HAMPTON INN.
1. 3.0' SW TO THE EAST BACK OF CURB.
2. 2.4' NE TO THE WEST SIDE OF THE SIDEWALK.
3. 2.6' NW TO THE SOUTHEAST CORNER OF THE CURB INLET LID.

CP-103
N- 9298.2770, E- 5197.5590
PK NAIL IN THE WEST EDGE OF ASPHALT BIKE PATH.
1. 106.2' N TO CENTERLINE OF 1ST DRIVE SOUTH OF 29TH ST.
2. 60.7' SSW TO BMK-203.

CP-105
N- 10212.7680, E- 5553.6890
1/2" REBAR, SOUTH OF SIDEWALK ALONG SOUTH SIDE OF 29TH ST.
1. 20.4' TO SOUTH BACK OF CURB ALONG 29TH ST.
2. 65.5' W TO THE CENTERLINE OF DRIVE TO SOUTH.

CP-106
N- 9872.8650, E- 5225.9830
MAG NAIL IN THE WEST EDGE OF ASPHALT BILE PATH.
1. 64.9' S TO NORTH EDGE OF DRIVE.
2. 47.4' SSW TO BMK-206.

CP-110
N- 10086.9950, E- 6173.3960
1/2" REBAR WITH PEC CONTROL CAP SET FLUSH WITH THE GROUND.
1. 24.0' E TO THE CENTERLINE OF THE NORTH-SOUTH STREET.
2. 26.3' S TO THE CENTERLINE OF THE DRIVE TO THE WEST.
3. 57.65' NNE TO THE CENTER OF THE LIGHT POLE.

CP-111
N- 10216.3720, E- 6133.9910
MAG NAIL IN SIDEWALK JOINT.
1. 13.7' N TO THE SOUTH BACK OF CURB ALONG 29TH ST.
2. 70.1' E TO THE CENTERLINE OF THE NORTH-SOUTH STREET.

CP-112
N- 10219.8790, E- 5754.7160
MAG NAIL IN SIDEWALK JOINT.
1. 13.4' W TO CENTERLINE OF THE DRIVE.
2. 12.0' N TO THE SOUTH BACK OF CURB ALONG 29TH ST.

SECTION CORNER

501

Pt. No. 501
NORTHEAST CORNER, SEC 6, T27S, R1W
N: 10,266.0020, E: 5,128.1290
3/4" IRON PIPE IN ASPHALT
54.30' SOUTHEAST TO 3 NAILS IN UNDERGROUND MARKER POST
64.27' SOUTHWEST TO 60ø NAIL IN TELEPHONE POLE
48.65' NORTHEAST TO 3 NAILS IN HIGH LINE POLE
46.40' NORTHWEST TO 3 NAILS IN HIGH LINE POLE

Pt. No. 500
EAST 1/16, NORTHEAST 1/4, SEC6, T27S, R1W
N: 8,950.4810, E: 5,095.8080
1/2" BAUGHMAN CAPPED REBAR IN ASPHALT
53.47' NORTHWEST TO 3 NAILS IN S.W.B. POLE
115.26' SOUTHWEST TO 3 NAILS IN S.W.B. POLE
83.59' SOUTHEAST TO 60ø NAIL IN POWER POLE
36.30' W TO "+" CROSS ON TOP OF 12" C.M.P.

Pt. No. 550 (NOT SHOWN)
EAST 1/4 CORNER, SEC6, T27S, R1W
N: 10,253.0550, E: 7,760.2070
1/2" IRON PIPE IN ASPHALT
47.98' SOUTHEAST TO "+" CROSS ON SOUTH FACE OF STEEL GATE POST
69.20' EAST TO "+" CROSS ON NORTH FACE OF STEEL GATE POST
45.70' NORTHEAST TO 3 NAILS IN FENCE POST
39.87' WEST SOUTHWEST TO 2 NAILS IN TELEPHONE POLE

EROSION CONTROL GENERAL NOTES

1. CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION PROTECTION THROUGHOUT THE ENTIRE PROJECT. THE FOLLOWING QUANTITIES SHALL BE INCLUDED IN BID ITEMS FOR EACH RESPECTIVE PART. EROSION PROTECTION SHALL BE INCLUDED IN THE BID AS FOLLOWS:

   PAVING AND DRAINAGE (472-85234)
   BACK OF CURB PROTECTION 93 L.F.
   AREA INLET PROTECTION 1 EACH

2. THESE EROSION CONTROL DEVICES ARE CONSIDERED MINIMUM STANDARDS. WHENEVER SEDIMENT ENTERS THE STREETS, STORM SEWERS, DITCHES, OR PONDS, CONTRACTOR WILL INSTALL ADDITIONAL DEVICES, AS NEEDED, TO CORRECT THE PROBLEM.

3. THESE EROSION CONTROL DEVICES MUST BE IN PLACE AT ALL TIMES DURING CONSTRUCTION UNTIL SUCH TIME AS THE SITE IS REESTABLISHED WITH PAVING OR GRASS. TEMPORARY OR PERMANENT SEEDING AND MULCH WILL BE INSTALLED WHEN EARTHWORK ACTIVITIES CEASE IN AN AREA FOR 14 DAYS OR MORE.

4. ANY MUD INADVERTENTLY TRACKED ONTO ANY STREET SHALL BE CLEANED UP BY THE CONTRACTOR, AT THE END OF EACH DAY'S WORK, OR AS DIRECTED BY THE FIELD ENGINEER.

5. CONTRACTOR TO FURNISH A TRUCK WASH-OUT PIT TO BE PLACED AT A CONVENIENT LOCATION THAT DOES NOT CONFLICT WITH CONSTRUCTION. CONTRACTOR SHALL CLEAN OUT AND BACKFILL PIT PRIOR TO FINAL INSPECTION. LOCATION SHALL BE APPROVED BY THE FIELD ENGINEER.

PEC
PROFFESSIONAL ENGINEERING CONSULTANTS
303 SOUTH TOPEKA
WICHITA, KS 67202
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RILEY J. SCHMITZ
LICENSED
24168
03/29/2019
KANSAS
PROFESSIONAL ENGINEER

29TH STREET NORTH PAVING IMPROVEMENTS

CITY OF WICHITA, KS
CITY OF WICHITA PROJECT NO. 472-2019-085519

Issue:		
1	SENT FOR REVIEW	3/06/19
2	SENT FOR FINAL	3/25/19

JOB NO.	190087-000
DATE	MARCH 2019
PM	BMM
DESIGNED BY	RJS
DRAWN BY	BJS
CHECKED BY	AKL

KEY MAP AND GENERAL NOTES

Saved 3-29-2019 2:54:03 PM by BJS
Plot Scale 1:1 3-29-2019 2:55:44 PM by BILL SEXSON, CET
U:\Wichita-Civil\2019\190087\000\Muni-Trans\Drawings\190087-000-02C-KEY MAP AND GENERAL NOTES