



SCALE: 1" = 200'

WATERLINE NO. 1				
COORDINATE LIST				
POINT	NORTHING	EASTING	STATION	DESCRIPTION
5000	1,678,698.3770	1,591,745.1890	0+00.00	EXISTING WL
5001	1,678,698.3530	1,591,743.1891	0+02.00	BEND
5002	1,678,698.3175	1,591,740.2394	0+04.95	BEND
5003	1,678,698.2269	1,591,732.6899	0+12.50	HYDRANT
5004	1,678,698.1230	1,591,724.0467	0+21.14	TEE
5007	1,679,599.8272	1,591,713.2156	9+22.91	DEFLECTION
5008	1,679,668.9080	1,591,712.2880	9+92.00	HYDRANT
5009	1,680,192.1983	1,591,705.2607	15+15.34	HYDRANT
5010	1,680,747.1817	1,591,697.8078	20+70.37	HYDRANT
5011	1,681,125.2886	1,591,692.7302	24+48.51	BEND
5012	1,681,191.3043	1,591,664.3412	25+20.37	BEND
5013	1,681,582.2912	1,591,659.0908	29+11.40	HYDRANT
5014	1,681,642.7236	1,591,658.2793	29+71.83	DEFLECTION
5015	1,681,896.3722	1,591,669.3745	32+25.72	DEFLECTION
5016	1,682,158.0611	1,591,665.8604	34+92.44	FH/AIR RELEASE
5017	1,682,163.0607	1,591,665.7933	35+22.03	BEND
5018	1,682,187.9302	1,591,689.8349	35+27.03	BEND
5019	1,682,267.0350	1,591,688.7540	36+06.14	BEND
5020	1,682,279.0974	1,592,282.4923	42+00.00	AIR RELEASE
5021	1,682,283.2844	1,592,488.5889	44+06.14	HYDRANT
5022	1,682,298.5101	1,593,238.0331	51+55.74	EXISTING WL

WATERLINE NO. 1A				
COORDINATE LIST				
POINT	NORTHING	EASTING	STATION	DESCRIPTION
5004	1,678,698.1230	1,591,724.0467	0+00.00	TEE
5005	1,678,691.8735	1,591,724.1218	0+06.00	AIR RELEASE
5006	1,678,674.8747	1,591,724.3260	0+20.00	BLOWOFF

- BENCH MARK LIST**
- BM 201 - CHISELED SQUARE, TOP OF SOUTH CURB OF APOLLO STREET, AT NORTH CURB RETURN, EAST SIDE OF 167TH STREET WEST. ELEV. = 1436.91 (NAVD 88)
 - BM 202 - CHISELED SQUARE ON CENTER OF WEST EDGE OF CONCRETE PAD FOR BRICK SIGN "GODDARD EISENHOWER CAMPUS". ELEV. = 1435.83 (NAVD 88)
 - BM 203 - CHISELED SQUARE ON TOP OF WEST EDGE OF CONCRETE BASE FOR LIGHT POLE ON NORTH SIDE OF ACCESS ROAD FOR SCHOOL AND NORTH OF WATER TOWER RWD #4. ELEV. = 1438.28 (NAVD 88)
 - BM 204 - CHISELED SQUARE ON WEST SIDE OF CONCRETE FOOTING FOR FENCE POST AT SOUTHWEST CORNER OF CHAIN LINK FENCE AT FOUL-BALL POST WEST OF 3RD BASE, NEAR EAST SIDE OF 167TH STREET WEST AND EXPLORER STREET. ELEV. = 1431.20 (NAVD 88)
 - BM 205 - CHISELED SQUARE ON WEST SIDE OF CONCRETE BASE FOR LIGHT POLE, SOUTH POLE OF 3 POLES ON EAST SIDE OF SCHOOL BUS ACCESS ROAD, 200' ± EAST OF 167TH STREET AND NORTH OF PRIVATE DRIVE "EXPLORER STREET". ELEV. = 1434.62 (NAVD 88)
 - BM 206 - CHISELED SQUARE ON WEST END OF NORTH ONE OF THREE RCP CULVERTS UNDER 167TH STREET, AT FLEX DELINEATOR SIGN. ELEV. = 1426.84 (NAVD 88)
 - BM 207 - CHISELED SQUARE ON NORTHEAST CORNER OF CONCRETE PAD FOR "TALL SILVER" TRAFFIC SIGNAL CONTROL BOX AT SOUTHWEST CORNER OF 167TH STREET WEST AND MAPLE. ELEV. = 1429.07 (NAVD 88)
 - BM 208 - CHISELED SQUARE ON CENTER OF SOUTH HEADWALL FOR RCB CULVERT UNDER MAPLE, 470' EAST OF 167TH STREET, 47' EAST OF THE CENTER OF ASPHALT DRIVEWAY ON SOUTH SIDE OF 167TH STREET. ELEV. = 1425.03 (NAVD 88)
 - BM 209 - TOP OF NAIL HEAD FOR 60D STEP NAILS IN NORTH SIDE OF POWER POLE ON NORTH SIDE OF MAPLE STREET, 685' WEST OF C/O OF 162ND STREET, 128' NORTHWEST OF TBM #210, POLE IS ON NORTH SIDE OF MAPLE. ELEV. = 1424.97 (NAVD 88)
 - BM 210 - MAG NAIL SET IN CENTER OF ASPHALT DRIVEWAY, BETWEEN TWO OLD WAGON WHEELS, 15.1' SOUTH OF SOUTH EDGE OF ASPHALT FOR MAPLE STREET, AND 1077' EAST OF C/O OF 167TH STREET. ELEV. = 1421.86 (NAVD 88)
 - BM 211 - CHISELED SQUARE ON TOP OF NORTH END OF RCP CULVERT AT NORTH ENTRANCE TO "THE ALTAR CHURCH" ON WEST SIDE OF 162ND STREET AND 160' SOUTH OF C/O OF MAPLE STREET. ELEV. = 1416.28 (NAVD 88)
 - BM 212 - CHISELED SQUARE FOUND ON WEST SIDE OF CONCRETE FOOTING FOR WATER TOWER, 3' SOUTH OF ELECTRIC METER. ELEV. = 1433.84 (NAVD 88)

CL 167TH STREET			
COORDINATE LIST			
POINT	NORTHING	EASTING	STATION
6000	1,678,393.2001	1,591,677.8975	24+34.43
6001	1,682,231.8661	1,591,628.3613	62+73.41

CL MAPLE STREET			
COORDINATE LIST			
POINT	NORTHING	EASTING	STATION
6001	1,682,231.8661	1,591,628.3613	27+32.13
6002	1,682,283.3991	1,594,255.3147	53+59.59

- POINT NO. 301**
SOUTHWEST CORNER, SEC 22, T27S, R2W
N: 1,682,231.7910, E: 1,591,627.8670
5/8" BAR AT SURFACE
1. 40.31' SOUTHWEST TO 3 NAILS IN A CLY POLE.
2. 39.61' NORTHEAST TO PK NAIL IN A POWER POLE.
3. 49.30' NORTHEAST TO A CONCRETE WITNESS POST.
- POINT NO. 302**
NORTH 1/4 CORNER, SEC 27, T27S, R2W
N: 1,682,285.1700, E: 1,594,255.3080
3/4" IRON PIPE, 0.5' DEEP
1. 29.90' NORTHWEST TO 3 NAILS IN EAST FACE OF POWER POLE.
2. 39.38' NORTH TO TOP-CENTER OF FIRE HYDRANT
3. 35.51' SOUTHWEST TO TOP-CENTER OF TELEPHONE PEDESTAL.
4. 62.20' SOUTH SOUTHWEST TO 3 NAILS IN EAST FACE OF POWER POLE.
- POINT NO. 303**
SOUTHWEST CORNER, SEC 27, T27S, R2W
N: 1,676,957.7660, E: 1,591,694.9480
#5 REBAR IN THIMBLE
1. 93.71' SOUTH SOUTHWEST TO TOP CENTER OF STEEL FENCE END POST.
2. 110.42' SOUTH SOUTHWEST TO 3 NAILS IN EAST FACE OF WOOD FENCE POST.
3. 110.54' SOUTH TO PK NAIL ON SECTION LINE AND IN-LINE WITH NORTH EDGE OF ROAD TO EAST.
4. 93.46' SOUTH SOUTHWEST TO NAIL AND KDOT WASHER IN SOUTHWEST FACE OF POWER POLE.
5. 93.33' SOUTH SOUTHWEST TO 60D NAIL WITHOUT WASHER IN EAST FACE OF POWER POLE.
6. 121.16' NORTH NORTHWEST TO 3 NAILS SOUTHWEST FACE OF POWER POLE.
7. 120.68' NORTH NORTHEAST TO NAIL AND WASHER IN EAST FACE OF POWER POLE.
8. 1.10' WEST TO CENTER JOIN IN ROADWAY, 2.24' SOUTH TO CENTER JOINT IN EASTBOUND ROADWAY.
- POINT NO. 304**
WEST 1/4 CORNER, SEC 27, T27S, R2W
N: 1,679,598.5810, E: 1,591,663.2270
1. 30.69' NORTHEAST TO PK NAIL IN TOP OF NORTH END OF CMP.
2. 51.28' SOUTHWEST TO 3 NAILS IN SOUTHWEST FACE OF POWER POLE
3. 50.32' SOUTHWEST TO PK NAIL AND SHINER IN NORTH FACE OF POWER POLE.
4. 29.94' WEST TO 3 NAILS IN SOUTHWEST FACE OF CABLE POST.

- POINT NO. 101**
N: 1,678,665.4880, E: 1,591,710.6090
1/2" REBAR WITH BLUE CAP
1. 23.50' WEST TO EAST EDGE OF ASPHALT PAVEMENT.
2. 59.00' NORTH TO C/O APOLLO STREET.
3. 16.50' NORTH NORTHWEST TO STREET SIGN.
- POINT NO. 102**
N: 1,679,677.9120, E: 1,591,701.9020
1/2" REBAR WITH BLUE CAP
1. 40.70' WEST TO EAST EDGE 167TH STREET PAVEMENT.
2. 29.70' SOUTH TO C/O DRIVE NORTH OF WATER TOWER.
3. 21.70' SOUTHWEST TO STOP SIGN.

- POINT 103**
N: 1,680,767.5000, E: 1,591,677.6930
1/2" REBAR WITH BLUE CAP
1. 54.00' SOUTH TO C/O EXPLORER STREET.
2. 30.10' WEST TO C/O 167TH STREET WEST
3. 16.00' EAST SOUTHWEST TO CENTER OF TREE (4").
- POINT 104**
N: 1,682,173.7890, E: 1,591,591.8570
1/2" REBAR WITH BLUE CAP
1. 7.50' NORTHWEST TO CENTER OF BENCHMARK #207.
2. 16.20' NORTH NORTHEAST TO CENTER TRAFFIC LIGHT POLE.
3. 23.90' EAST TO WEST EDGE OF ASPHALT PAVEMENT.
- POINT 105**
N: 1,682,272.5160, E: 1,592,298.5120
1/2" REBAR WITH BLUE CAP
1. 15.50' SOUTH TO NORTH EDGE OF ASPHALT MAPLE STREET.
2. 39.50' NORTHEAST TO CENTER OF WATER VALVE.
3. 54.10' WEST TO CENTER OF POWER POLE LINES RUNNING EAST.

- POINT 106**
N: 1,682,228.290, E: 1,593,245.1350
1/2" REBAR WITH BLUE CAP
1. 9.00' EAST TO STREET SIGN POST (162ND STREET & MAPLE).
2. 8.60' SOUTHWEST TO SOUTHWEST WATER VALVE OF 2.
3. 24.30' NORTH TO SOUTH EDGE OF MAPLE STREET ASPHALT PAVEMENT.

Served 02-01-2018 10:40:37 AM by CSI
 Plot Scale 1:1 02-01-2018 10:46:31 AM by CSI
 U:\Wichita-Civil\2017\170531\000\Drawings\170531-000-003-WATERLINE BUBBLE MAP

TREJOR KAUFMAN
LICENSED
26008
02/11/2018
KANSAS
PROFESSIONAL ENGINEER

No.	Revision	By	Date
16" WATERLINE ALONG MAPLE FROM 162ND TO 167TH STREET WEST, AND 167TH STREET WEST FROM MAPLE TO APOLLO			
WATERLINE BUBBLE MAP			
GARY JANZEN, P.E. - CITY ENGINEER CITY OF WICHITA PROJECT NO. 448-90818			
PEC PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA WICHITA, KS 67202 316-262-2691 www.pec1.com			
Designed by	JAG, TBK	Job No.	35-170531-0-42
Drawn by	CSL, KTD	Date	May 2017

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