BROADWAY HOTEL
CITY OF WICHITA, KANSAS

SANITARY SEWER IMPROVEMENTS

CITY OF WICHITA PROJECT NO. 468-2019-012737
OCA NO. 629117

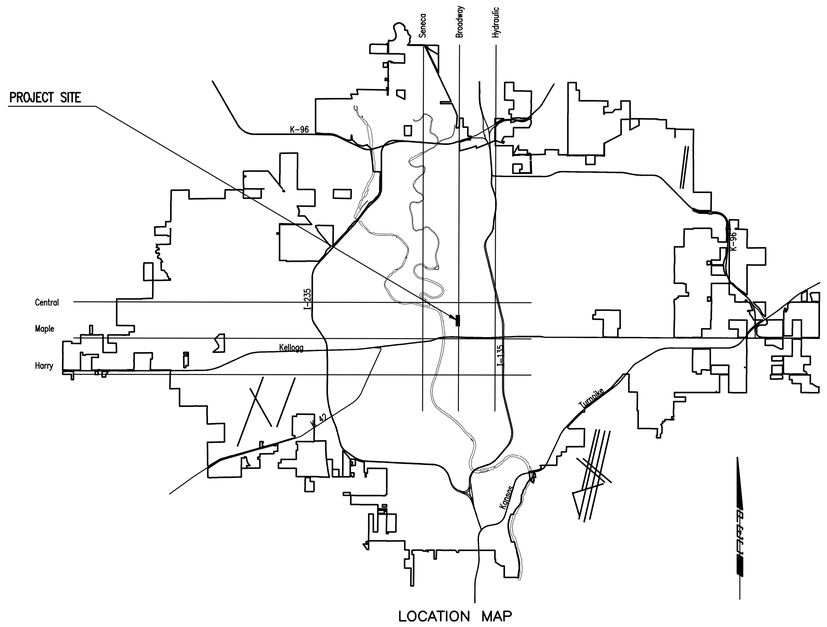
AND

WATERLINE IMPROVEMENTS

CITY OF WICHITA PROJECT NO. 448-2019-010173
OCA NO. 639107

Dondlinger - Contractor
J. Terhune - City of Wichita, Field Project Engineer
J. Jaso - City of Wichita, Inspector
As-built
Release Date (for connection purposes only): 9/22/2020
Completion Date: 5/11/2021
pdf: apr 1/11/2021

GARY JANZEN, P.E. - CITY ENGINEER



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MAY 2020

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TREVOR KAUFMAN LICENSED 26008 05/19/2020 KANSAS PROFESSIONAL ENGINEER

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Issue:		

JOB NO.	35-197042-007-0042
DATE	MAY 2020
PM	RWG
DESIGNED BY	TBK
DRAWN BY	KTD
CHECKED BY	RWG

TITLE SHEET

C101

SAVED 5/13/2020 1:52:28 PM BY KURTIS.DEKAT
PLOTTED 5/18/2020 11:22:18 AM BY KURTIS DEKAT
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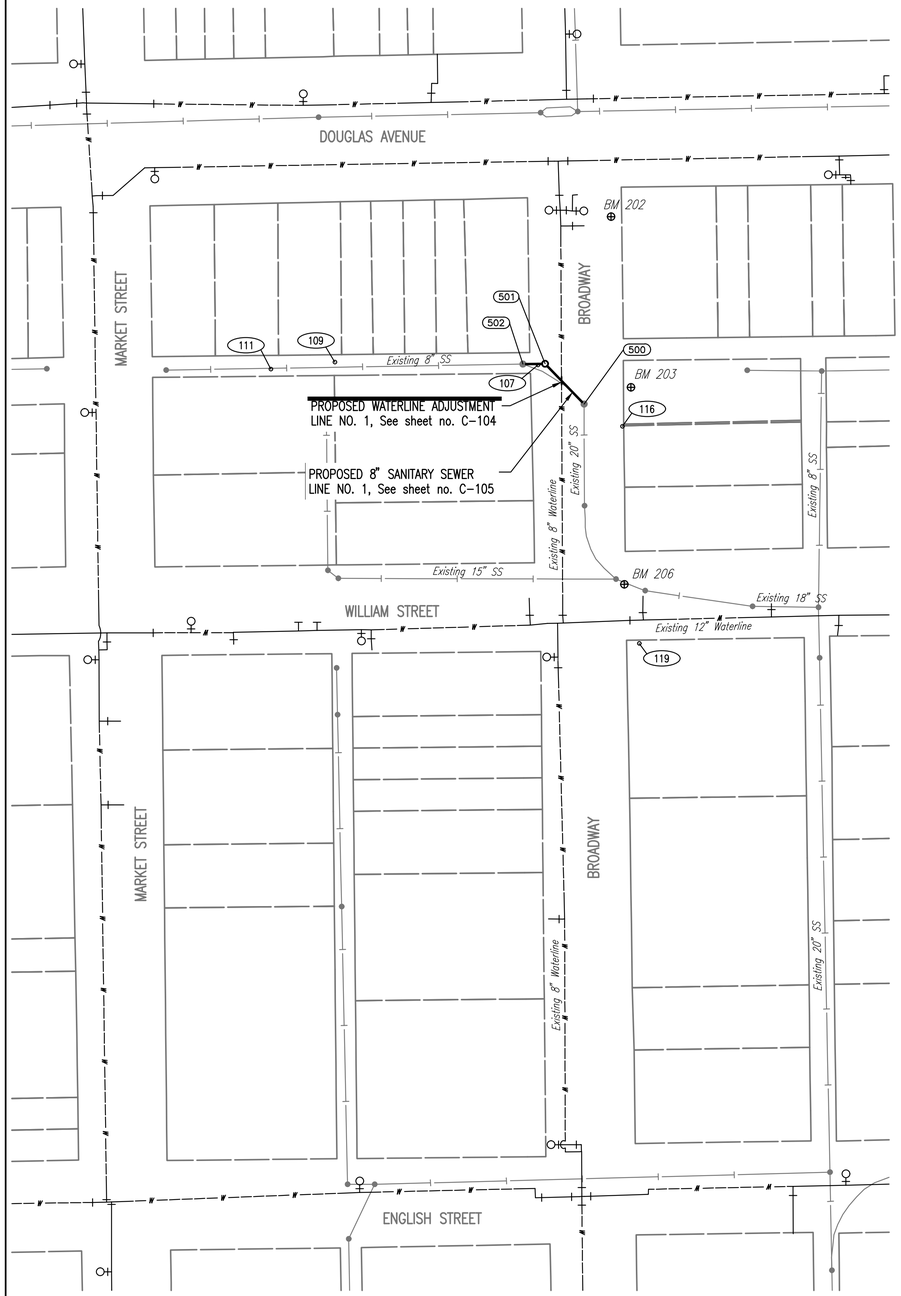

SCALE: 1" = 60'

0 60 120

SCALE IN FEET

LEGEND

- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- EXISTING SANITARY SEWER WITH MANHOLE
- PROPOSED SANITARY SEWER WITH MANHOLE
- EXISTING WATER MAIN
- PROPOSED WATER MAIN
- EXISTING WATER VALVE
- EXISTING FIRE HYDRANT

SANITARY SEWER LINE NO. 1				
COORDINATE LIST				
POINT	NORTHING	EASTING	STATION	DESCRIPTION
500	1,685,387.6365	1,649,285.0967	0+00.00	EXIST. MH 1
501	1,685,419.5835	1,649,254.2070	0+44.45	MH 2
502	1,685,419.3115	1,649,236.6498	0+62.01	EXIST. MH 3

BENCH MARK LIST ⊕ BM #1

BM 202. ELEVATION: 1298.46 NAVD88
CHISELED SQUARE ON TOP OF CURB AT FIRE HYDRANT; 35 FT. SOUTH OF SW CORNER OF CONCRETE PAD FOR TRAFFIC SIGNAL MANHOLE AT SW CORNER OF DOUGLAS AND BROADWAY.

BM 203. ELEVATION: 1298.26 NAVD88
CHISELED SQUARE AT EAST CURB RETURN; SE CORNER OF BROADWAY AND THE ALLEY SOUTH OF DOUGLAS AND NORTH OF WILLIAM STREET.

BM 206. ELEVATION: 1298.29 NAVD88
CHISELED SQUARE; 4.6 FT. WEST OF NE CORNER OF WHEELCHAIR RAMP ON NORTH SIDE OF WILLIAM STREET; 5 FT. EAST OF BACK OF EAST CURB OF BROADWAY.

CONTROL POINTS (101)

CP-105. N: 1,685,560.0020, E: 1,649,245.6110
MAG NAIL AT SW CORNER OF DOUGLAS AND MARKET.
1' S TO SW CORNER OF CONCRETE PAD FOR TRAFFIC SIGNAL MANHOLE.

CP-107. N: 1,685,418.6390, E: 1,649,248.5940
MAG NAIL AT BROADWAY AND ALLEY BETWEEN DOUGLAS AND WILLIAM STREETS.
IN CENTERLINE OF ALLEY.
IN CENTERLINE OF SIDEWALK ON WEST SIDE OF BROADWAY.
9.96' NW TO SE BUILDING CORNER.
8.73' SW TO NE BUILDING CORNER.
6.90' E TO BACK OF WEST CURB OF BROADWAY.

CP-109. N: 1,685,420.9050, E: 1,649,087.7970
CHISELED "X"
1/2-BLOCK SOUTH OF DOUGLAS AND 1/2-BLOCK WEST OF BROADWAY.
3.18' ESE TO NW CORNER OF NE ONE OF TWO STORM DRAIN AREA INLETS.
4.4' NE TO CENTER OF 6 1/2" DIA. GREEN GUARD POST (EAST ONE OF LINE OF FIVE POSTS).
2.6' N TO CENTER OF LID FOR SS CLEANOUT.

CP-111. N: 1,685,415.2630, E: 1,649,036.9990
MAG NAIL
105' W TO EAST CURB OF MARKET.
1/2-BLOCK SOUTH OF DOUGLAS.
SOUTH OF THE FOUNTAIN COURTYARD.
IN FLOWLINE CONCRETE JOINT OF ALLEY.
4.77' W TO A NORTH-SOUTH CONCRETE JOINT.
14.58' NE TO SW CORNER OF BUILDING/WALL.

CP-116. N: 1,685,370.0190, E: 1,649,315.3460
CHISELED "X" IN CONCRETE.
EAST SIDE OF BROADWAY, BETWEEN DOUGLAS AND WILLIAM STREETS.
50' N TO CENTER OF ALLEYWAY TO THE WEST.
5.82' W TO BACK OF EAST CURB OF BROADWAY.
2.75' N TO CENTER OF WATER METER.
6.7' SOUTH AND 3.9' EAST TO NW CORNER OF BUILDING.

CP-119. N: 1,685,198.1030, E: 1,649,328.8390
CHISELED "X" IN CONCRETE SIDEWALK.
ESE OF BROADWAY AND WILLIAM.
4.57' N TO BACK OF SOUTH CURB OF WILLIAM STREET.
5.84' S TO NE CORNER OF CONCRETE PAD FOR TRAFFIC SIGNAL POLE.

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BUBBLE MAP, HORIZONTAL AND VERTICAL CONTROL

C103

SAVED 4/2/2020 8:19:30 AM BY KURTIS.DEKAT
PLOTTED 5/18/2020 11:22:42 AM BY KURTIS DEKAT
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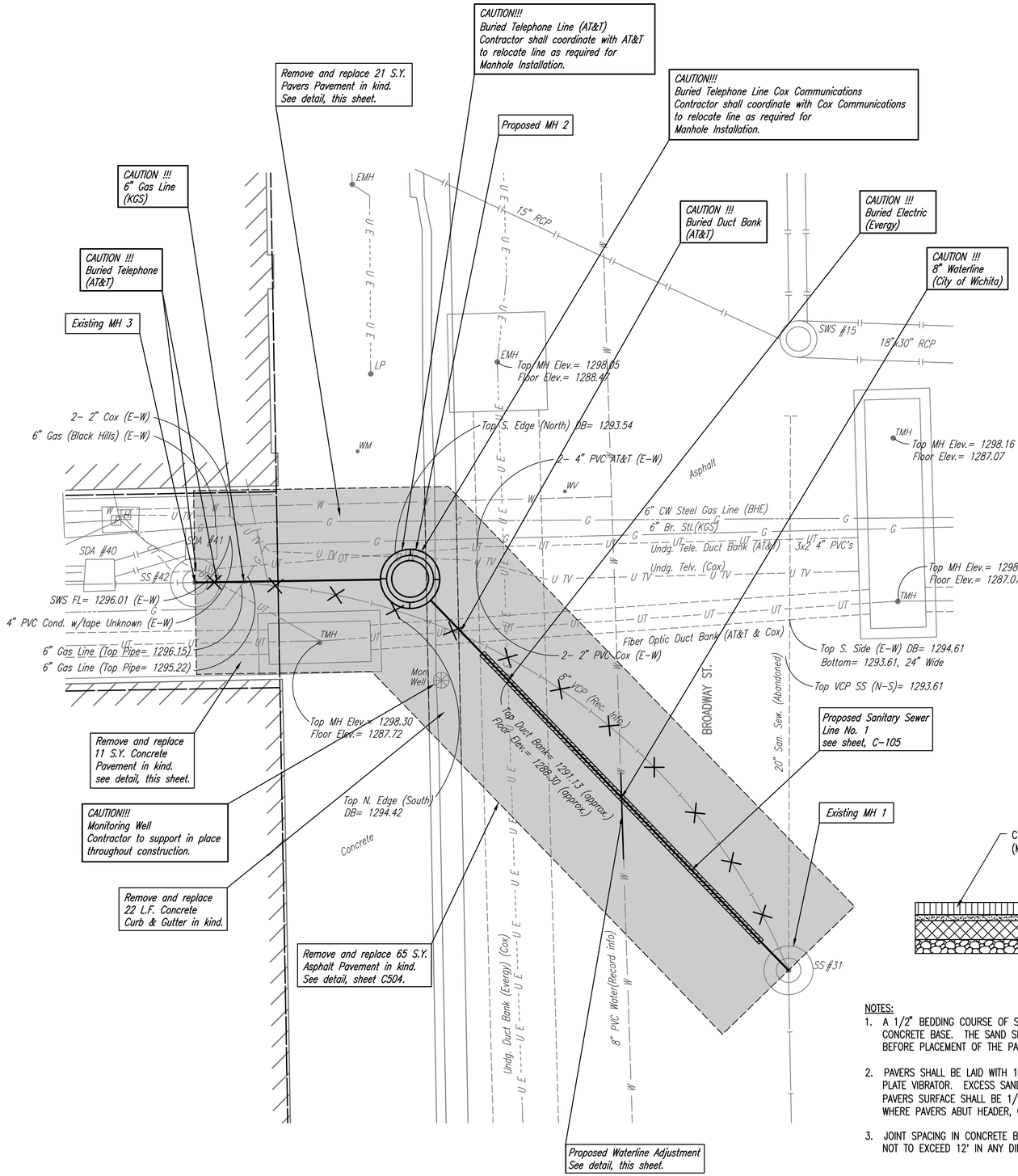
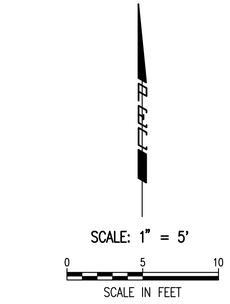




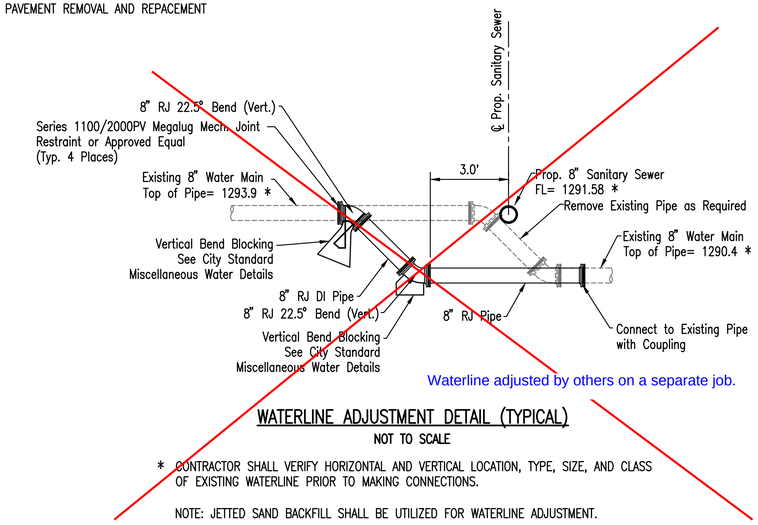
LEGEND

X = SANITARY SEWER TO BE REMOVED

= PAVEMENT REMOVAL AND REPACEMENT

CONSTRUCTION SEQUENCE

1. PHASE 1 TRAFFIC CONTROL SHALL BE INSTALLED. CONTRACTOR SHALL SAW CUT AND REMOVE PAVEMENT IN THE ALLEY AND SOUTHBOUND LANES OF BROADWAY TO LIMITS REQUIRED FOR THE SANITARY SEWER AND WATERLINE ADJUSTMENT INSTALLATION.
2. CONTRACTOR SHALL EXCAVATE (CONVENTIONAL EXCAVATION AND HYDRO EXCAVATION AS REQUIRED) THE TRENCH AND EXPOSE ALL UTILITIES.
3. CONTRACTOR SHALL THEN COORDINATE WITH THE UTILITY COMPANIES TO ALLOW THEM TO MAKE THE NECESSARY ADJUSTMENTS TO ALLOW SANITARY SEWER CONSTRUCTION. UTILITY ADJUSTMENTS MAY NEED TO BE MADE CONGRUENTLY WITH THE INSTALLATION OF MH 2.
4. PHASE 2 TRAFFIC CONTROL SHALL BE INSTALLED AND BROADWAY SHALL BE FULLY CLOSED.
5. CONTRACTOR SHALL BYPASS SANITARY SEWER AS REQUIRED. EXISTING SANITARY SEWER SHALL BE FLUSHED WITH CLEAN WATER AND REMOVED. NEW SANITARY SEWER SHALL BE INSTALLED AND TESTED.

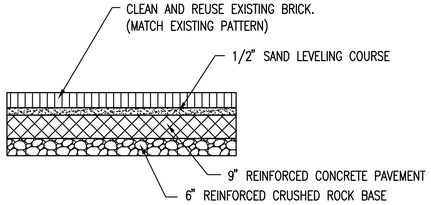


WATERLINE ADJUSTMENT DETAIL (TYPICAL)

NOT TO SCALE

* CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION, TYPE, SIZE, AND CLASS OF EXISTING WATERLINE PRIOR TO MAKING CONNECTIONS.

NOTE: JETTED SAND BACKFILL SHALL BE UTILIZED FOR WATERLINE ADJUSTMENT.

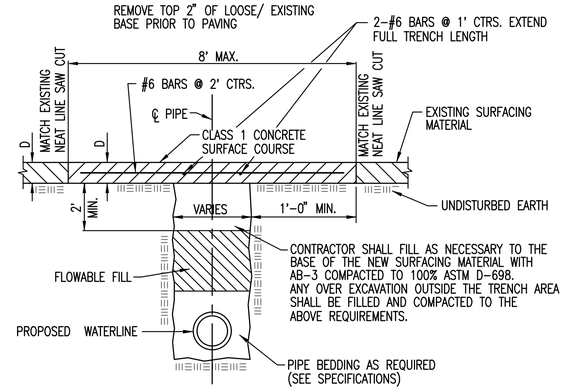


NOTES:

1. A 1/2" BEDDING COURSE OF SHARP CONCRETE SAND SHALL BE PLACED ON THE CONCRETE BASE. THE SAND SHALL BE LOOSELY SCREENED, NOT COMPACTED, BEFORE PLACEMENT OF THE PAVERS.
2. PAVERS SHALL BE LAID WITH 1/8" JOINTS, THEN LEVELED AND BEDDED USING A PLATE VIBRATOR. EXCESS SAND SHALL BE SWEPT OFF AFTER VIBRATING. FINISHED PAVERS SURFACE SHALL BE 1/8" TO 1/4" ABOVE CONCRETE IN ALL LOCATIONS WHERE PAVERS ABUT HEADER, CURB, WALK, OR OTHER PAVEMENT.
3. JOINT SPACING IN CONCRETE BASE AND VALLEY GUTTER PAVEMENT NOT TO EXCEED 12' IN ANY DIMENSION.

BRICK PAVEMENT REMOVAL AND REPLACEMENT

NOT TO SCALE



CONCRETE PAVEMENT REMOVAL AND REPLACEMENT DETAIL

NOT TO SCALE

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SITE PLAN

C104

SAVED 5/18/2020 11:18:07 AM BY KURTIS.DEKAT
PLOTTED 5/18/2020 11:22:54 AM BY KURTIS.DEKAT
U:\WICHITA-CIVIL\2019\197042\007\MUNI\DRAWINGS\197042-007-C104-SITE PLAN.DWG

Not enough clearance for standard mh (vertical) to be installed. Used 36" RCP as doghourse with hiway-frame and cover.

N: 1,685,387.6390, E: 1,649,285.1160
Sta. 0+00.00
Exist. MH 1
Remove Existing Pipe Connection and Breakout existing brick MH wall and Install new 8" Pipe. Seal new 8" Pipe to MH with an approved waterstop gasket and non-shrink grout. Reconstruct MH wall as required Reshape MH floor to provide smooth flow. This work shall be considered subsidiary to the price bid for pipe in place.

CAUTION !!!
Buried Duct Bank
Buried Electric (Evergy)
Buried CATV (Cox Communications)

WATERLINE ADJUSTMENT
See sheet no. C-104

CAUTION !!!
Existing 8" Waterline

CAUTION !!!
Buried Duct Bank
Buried CATV (Cox Communications)
2' W x 1' H
Buried Fiber Optic (AT&T)
Contractor shall support duct bank as required to allow pipe installation.

N: 1,685,419.5835, E: 1,649,254.2070
Sta. ~~0+44.45~~
Const. MH 2
Standard MH

CAUTION !!!
6" Gas Line
(KGS)
Contractor shall support gas line as required to allow pipe installation. Contractor shall coordinate this with KGS

N: 1,685,419.3000, E: 1,649,236.6490
Sta. 0+62.01
Exist. MH 3
Remove Existing Pipe Connection and Breakout existing brick MH wall and Install new 8" Pipe. Seal new 8" Pipe to MH with an approved waterstop gasket and non-shrink grout. Reconstruct MH wall as required. Reshape MH floor to provide smooth flow. This work shall be considered subsidiary to the price bid for pipe in place.

Existing 6" Service Line.
Contractor shall Plug and Abandon

SSM #31
Brick MH
Top=1298.43
I.E.=1291.63 8" PVC (NW)
I.E.=1291.43 18" VCP (N)
I.E.=1291.40 18" VCP (S)

SSM #42
Brick. MH
Top=1297.77
I.E.=1291.80 8" PVC Insert (E)
I.E.=1292.64 8" VCP (W)
I.E.=1291.88 8" VCP (W)

Sta. ~~0+03.00~~ 0+13.00 to Sta. 0+36.00
Const. 33.00 L.F. Reinforced Concrete Encasement. See detail, sheet C504

38 L.F.
Install ~~44.5 L.F.~~
8" Pipe

20.5 L.F.
Install ~~17.6 L.F.~~
8" Pipe

SCALE:
PLAN: LAT. & LONG. 0 20 40
PROFILE: HORIZ. SAME AS ABOVE
VERT. 0 5

LEGEND
500 = SEE SHEET NO. C103 FOR SANITARY SEWER COORDINATES (TYP.)
= CURB INLET PROTECTION

SANITARY SEWER LINE NO. 1

Exist. MH 1 Top Elev. = 1298.5
8" Waterline Top of Pipe= Verify
Electric Duct Bank Top of Pipe= 1291.13
Fiber Optic Duct Bank Top of Pipe= 1294.61
MH 2 Top Elev. = 1298.00
6" Gas Line Top of Pipe= 1295.73
Exist. MH 3 Top Elev. = 1297.18
Existing Ground
FL Out = 1291.40 to Exist. SS (S)
FL In = 1291.88 from Exist. SS (W)
Reinf. Concrete Encasement

Fill and vibrate was used due to a number of underground utilities.

Sta. 0+00 to Sta. 0+44
Place ~~44~~ L.F. of Excavatable Flowable Fill from top of pipe bedding to Elev.= 1295.50

Sta. 0+44 to Sta. 0+62
Place ~~18~~ L.F. of Excavatable Flowable Fill from top of pipe bedding to Elev.= 1295.50

Fill and vibrate was used due to a number of underground utilities.

44.5 L.F. 8" Pipe @ 0.40%
17.6 L.F. 8" Pipe @ 0.40%
FL In=1291.50
FL Out=1291.68
FL In=1291.73
FL Out=1291.80

1315 1310 1305 1300 1295 1290 1285 1280 1275 1270
-2+00 -1+00 0+00 1+00 2+00 3+00

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SANITARY SEWER LINE NO. 1

C105

SAVED 4/2/2020 8:19:47 AM BY KURTIS.DEKAT
PLOTTED 5/18/2020 11:23:21 AM BY KURTIS.DEKAT
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