

SANITARY SEWER RELOCATION

TO SERVE

WASTE WATER TREATMENT PLANT 3

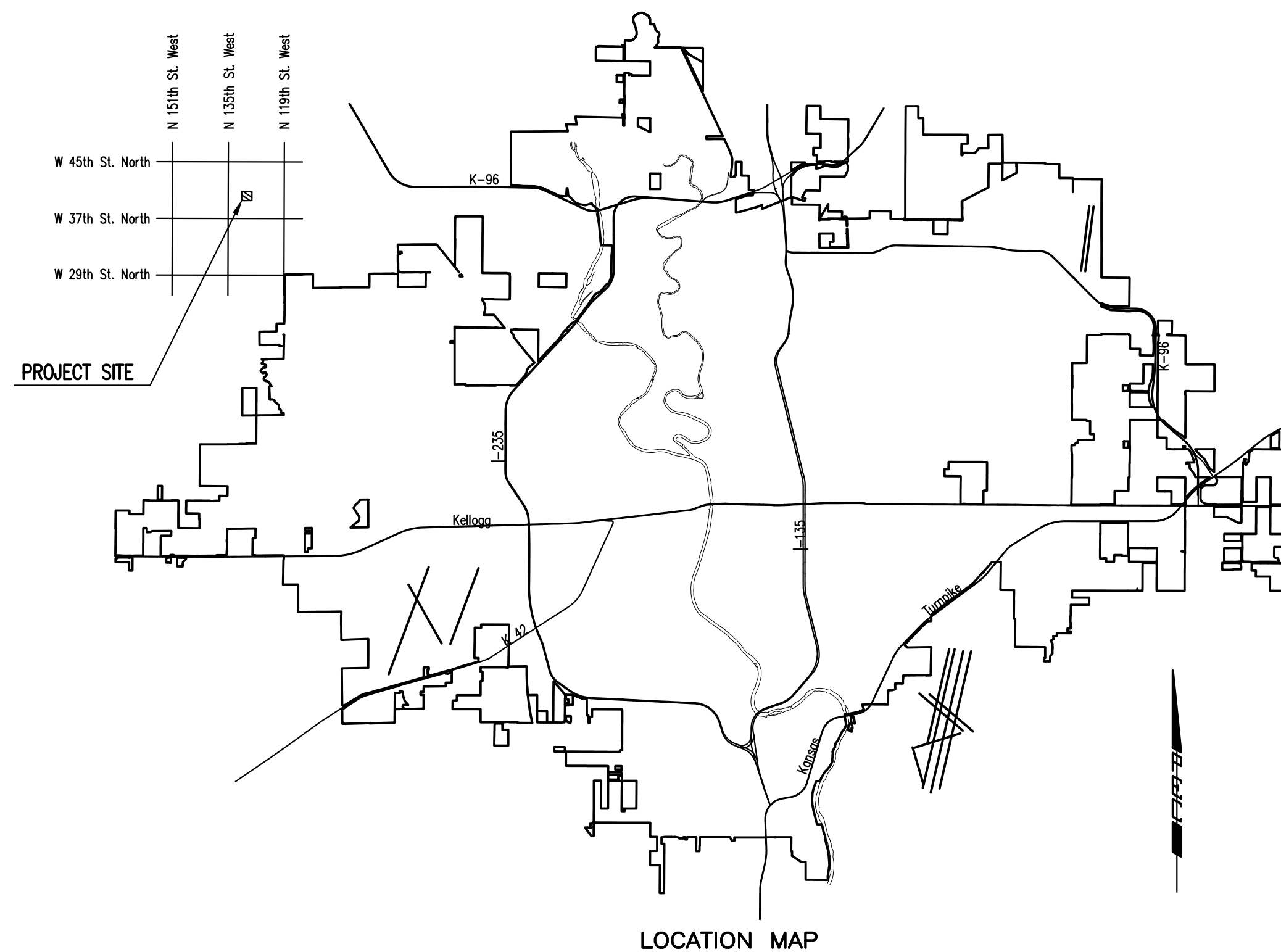
CITY OF WICHITA PROJECT NO. 468-2020-004792

PROJECT NO. S0002 ORG CODE 53200020

CITY OF WICHITA, KANSAS

GARY JANZEN, P.E. - CITY ENGINEER

As-Built Plans
Greg Baalman
10/18/2020



MAY 2020

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SANITARY SEWER RELOCATION

TO SERVE
WASTE WATER TREATMENT
PLANT 3

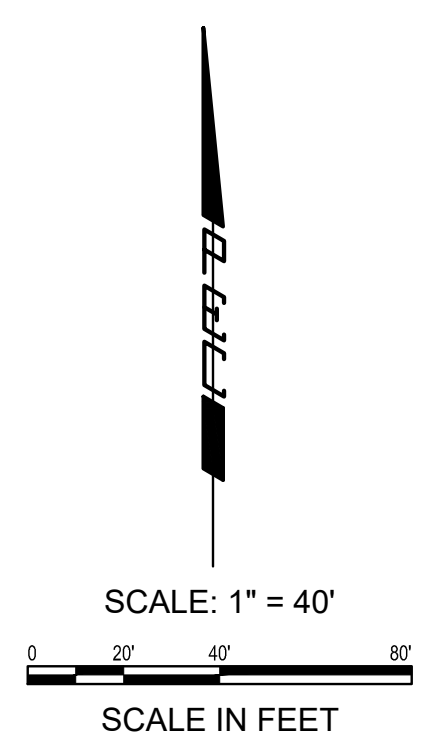
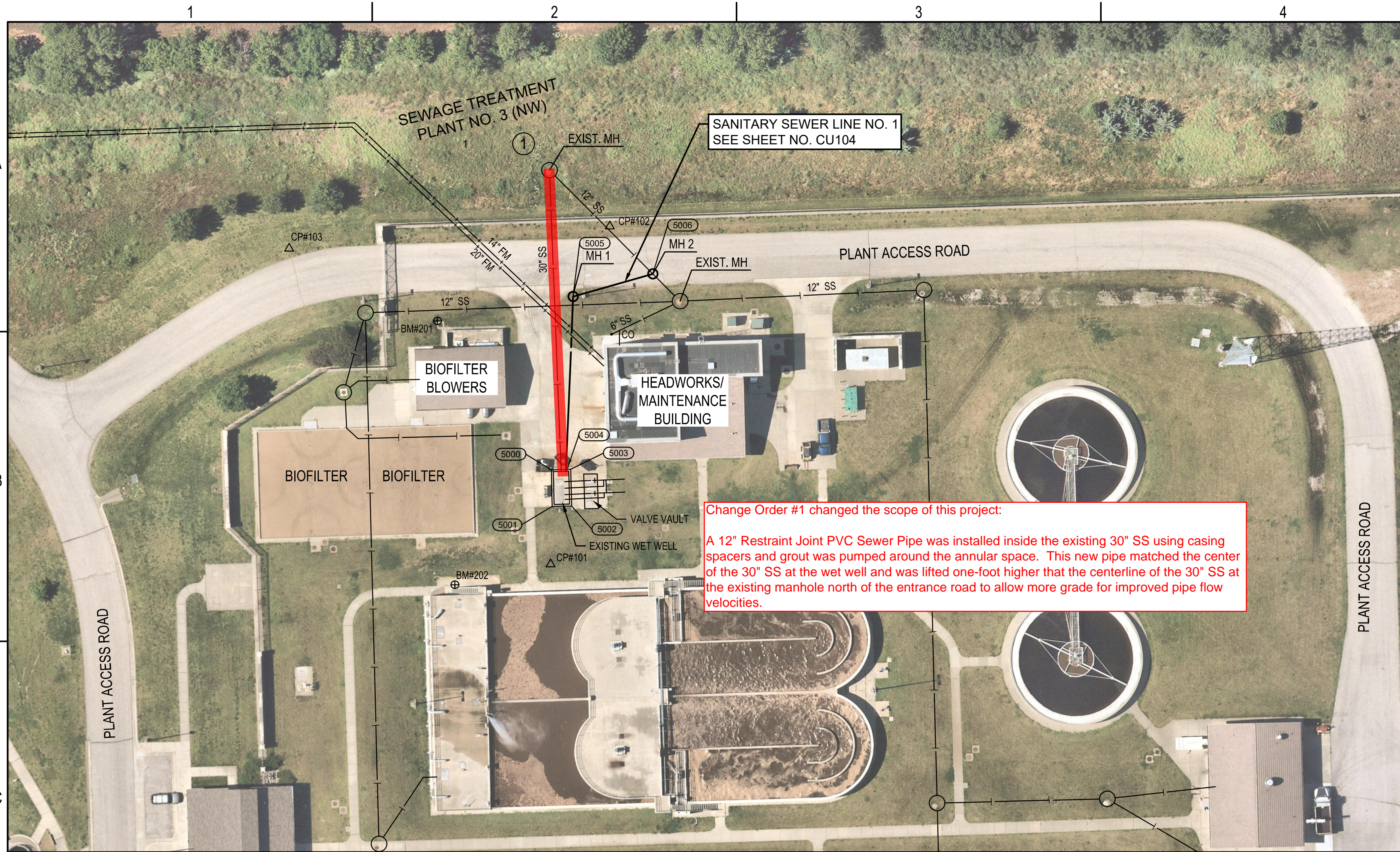
GARY JANZEN, P.E. - CITY ENGINEER
CITY OF WICHITA PROJECT NO. 2020-468-004792
OCA NO. S002 ORG CODE 53200020

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| JOB NO. | 35-197043-015-042 |
| DATE | APRIL 2020 |
| PM | RWG |
| DESIGNED BY | TBK |
| DRAWN BY | CSL |
| CHECKED BY | RWG |

TITLE SHEET

CU101



LEGEND

- EXISTING FORCE MAIN
- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- EXISTING SANITARY SEWER WITH MANHOLE
- PROPOSED SANITARY SEWER WITH MANHOLE
- COORDINATE POINT

| EXISTING WET WELL | | |
|-------------------|----------------|----------------|
| COORDINATE LIST | | |
| POINT | NORTHING | EASTING |
| 5000 | 1,711,250.5513 | 1,603,340.9376 |
| 5001 | 1,711,231.6797 | 1,603,341.3205 |
| 5002 | 1,711,231.9106 | 1,603,351.4201 |
| 5003 | 1,711,250.8725 | 1,603,350.9006 |

| SANITARY LINE NO. 1 | | | | |
|---------------------|----------------|----------------|---------|-----------------|
| COORDINATE LIST | | | | |
| POINT | NORTHING | EASTING | STATION | DESCRIPTION |
| 5004 | 1,711,249.8332 | 1,603,348.7038 | 0+00.0 | EXIST. WET WELL |
| 5005 | 1,711,340.0537 | 1,603,352.1305 | 0+90.3 | MH 1 |
| 5006 | 1,711,351.8188 | 1,603,393.3187 | 1+33.1 | MH 2 |

Change Order #1 changed the scope of this project:
A 12" Restraint Joint PVC Sewer Pipe was installed inside the existing 30" SS using casing spacers and grout was pumped around the annular space. This new pipe matched the center of the 30" SS at the wet well and was lifted one-foot higher than the centerline of the 30" SS at the existing manhole north of the entrance road to allow more grade for improved pipe flow velocities.

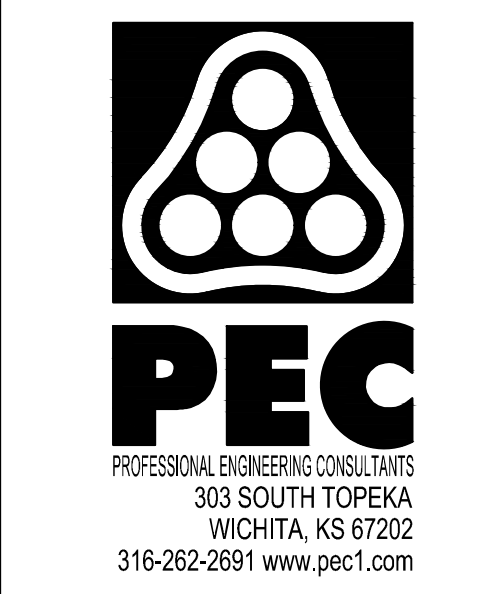
GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIALS TO COMPLY WITH CITY OF WICHITA STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
2. EACH BIDDER SHALL VISIT THE SITE OF THE PROJECT BEFORE SUBMITTING THE PROPOSAL FOR THIS WORK SO THAT THEY 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.
3. AT LEAST 72 HOURS PRIOR TO BEGINNING ANY EXCAVATION (EXCLUDING WEEKENDS AND HOLIDAYS), THE CONTRACTOR SHALL CONTACT THE KANSAS ONE-CALL SYSTEM, A UTILITY LOCATION SERVICE, AT 1-316-687-2470 OR 811 TO REQUEST THE LOCAL UTILITY COMPANIES TO LOCATE ANY EXISTING LINES WITHIN THE PROJECT AREA.
4. THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF AN EMERGENCY:

| | |
|--------------------------------|--------------|
| EMERGENCY DISPATCH | 911 |
| AT&T | 800-246-8464 |
| CITY OF WICHITA WATER & SEWER | 316-219-8921 |
| CITY OF WICHITA STORMWATER | 316-268-4090 |
| CITY OF WICHITA TRAFFIC | 316-268-4034 |
| BLACK HILLS ENERGY | 800-694-8989 |
| COX COMMUNICATIONS | 888-249-3530 |
| KANSAS GAS SERVICE | 888-482-4950 |
| EVERGY | 800-544-4857 |
| SEDGWICK COUNTY ELECTRIC COOP. | 800-542-4732 |
5. 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 THE START OF CONSTRUCTION.
6. THE CONTRACTOR SHALL NOT START WORK ON THE PROJECT UNTIL THE PROJECT INSPECTOR IS ASSIGNED AND IS PRESENT ON THE SITE. ANY WORK DONE WITHOUT INSPECTION WILL BE REQUIRED TO BE UNCOVERED FOR INSPECTION AT THE CONTRACTORS EXPENSE
7. ALL ELEVATIONS SHOWN ARE NAVD88 DATUM. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL RE-ESTABLISH CONTROL POINTS AND BENCH MARKS AND VERIFY THEIR ACCURACY.
8. EXISTING UTILITIES AND THEIR LOCATION, AS SHOWN ON THE DRAWINGS, REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS UTILITY COMPANIES AND IS EITHER FROM COMPANY RECORD DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. IT SHOULD BE NOTED THAT OTHER BURIED LINES AND CABLES MAY EXIST WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL HAVE ALL BURIED LINES LOCATED AND FLAGGED IN THE FIELD PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL CONTACT THE ENGINEER AND REVIEW ALL BURIED LINES LOCATED TO DETERMINE IF CONFLICTS EXIST. THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND EXISTING UTILITIES WITHIN THE RIGHT-OF-WAY WHICH DO NOT CONFLICT WITH PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION DURING TRENCHING OPERATIONS TO AVOID DAMAGING THESE LINES. ANY LINES DAMAGED SHALL BE REPLACED OR REPAIRED IMMEDIATELY AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR SHALL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY THEIR CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS. ALL COSTS FOR THIS WORK SHALL BE CONSIDERED SUBSIDIARY TO "SITE RESTORATION".
10. EASEMENTS AND RIGHT-OF-WAY PROVIDED BY THE OWNER FOR THE PROJECT ARE SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACQUISITION OF ANY ADDITIONAL TEMPORARY EASEMENTS OR RIGHT-OF-WAY DESIRED TO USE IN COMPLETING THE WORK.
11. THE CONTRACTOR SHALL CONTAIN THEIR OPERATIONS TO PERMIT LOCAL AND EMERGENCY TRAFFIC THROUGH AND ACROSS CONSTRUCTION AT ALL TIMES. THE CONTRACTOR SHALL UTILIZE WARNING SIGNS, FLASHING LIGHTS, BARRICADES, AND FLAGMEN IN COMPLIANCE WITH LATEST VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) TO ENSURE SAFETY.
12. RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES INCLUDING ANY TREES REMOVED, TREE TRIMMINGS, AND EXCESS EXCAVATION WHICH IS TO BE WASTED SHALL BE DISPOSED OF ON SITES PROVIDED BY THE CONTRACTOR. THESE SITES SHALL ALSO 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 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 MAY REQUIRE ARCHAEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED DISPOSAL LOCATION.
13. THE CONTRACTOR SHALL AVOID REMOVAL OR TRIMMING OF ANY TREES OR SHRUBS WHERE POSSIBLE. 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. THE COST FOR ANY NECESSARY TREE TRIMMING, CLEARING AND/OR GRUBBING SHALL BE SUBSIDIARY TO "SITE CLEARING". FULL TREE REMOVAL SHALL BE NOTED ON THE PLANS AND SHALL BE BID AS "TREE REMOVED, LARGE", "TREE REMOVED, SMALL", OR "TREE ROW REMOVED".
14. THE CONTRACTOR SHALL RESTORE ALL DITCHES, SWALES, ROAD SHOULDERS, AND BANKS TO THEIR ORIGINAL SLOPES AND GRADES EXCEPT AS SHOWN OTHERWISE. WHERE EXISTING ENTRANCE PIPE, DRAINAGE PIPE, SIGNS, FENCES, IRRIGATION, LANDSCAPING, ETC., CONFLICT WITH THE PROPOSED WORK HEREIN, THEY SHALL BE REMOVED AND REPLACED OR RESET, UNLESS OTHERWISE NOTED ON THE DRAWINGS. THE REPLACEMENT OF ALL THE AFOREMENTIONED ITEMS SHALL BE CONSIDERED SUBSIDIARY TO "SITE RESTORATION".
15. THE CONTRACTOR SHALL INSTALL AND/OR MAINTAIN EROSION CONTROL METHODS AS SPECIFIED ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EROSION CONTROL THROUGH THE COMPLETION OF THIS PROJECT. INSTALLATION OF THESE EROSION CONTROL DEVICES DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF ABATING SOIL EROSION.

INLET PROTECTION 2 E.A.
16. THE CONTRACTOR SHALL TAKE CARE TO PREVENT SILT AND DEBRIS FROM ENTERING ANY STORM DRAINAGE SYSTEM DURING CONSTRUCTION. PIPES OR STRUCTURES WHICH CONTAIN MATERIALS FROM THE CONTRACTORS ACTIVITIES SHALL BE THOROUGHLY CLEANED BY THE CONTRACTOR, AT THEIR OWN EXPENSE, PRIOR TO THE FINAL INSPECTION.
17. ALL LAWN/TURF AREAS DISTURBED BY CONSTRUCTION OF THE PROPOSED IMPROVEMENTS SHALL BE RESTORED WITH THE SAME GRASS/SOD AS EXISTING. RESTORATION OF DISTURBED AREAS SHALL INCLUDE, BUT NOT BE LIMITED TO, TOP SOIL PREPARATION, SEEDING, MULCHING, AND/OR RE-SEEDING. ALL SEEDING/SODDING WORK SHALL BE IN ACCORDANCE WITH THE CITY OF WICHITA STANDARD SPECIFICATIONS AND THE CITY OF WICHITA ADMINISTRATIVE REGULATION NO. AR6.5 WHICH GOVERNS CLEANUP AND RESTORATION OR REPLACEMENT FOLLOWING CONSTRUCTION. ALL COSTS FOR THIS WORK SHALL BE SUBSIDIARY TO "SITE RESTORATION".
18. THE CONTRACTOR SHALL SEED ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WITH TEMPORARY RYE GRASS. RYE GRASS SEED SHALL BE PLANTED AT A MINIMUM RATE OF SIX (6) POUNDS PER ONE THOUSAND (1,000) SQUARE FEET. THIS TEMPORARY SEEDING MAY BE OMITTED ONLY IF PERMANENT SEEDING/SODDING IS APPLIED. TEMPORARY SEEDING OR PERMANENT SEEDING/SODDING SHALL BE APPLIED WITHIN 14 DAYS AFTER THE AREA HAS BEEN DISTURBED. ALL COSTS FOR TEMPORARY RYE GRASS SEEDING SHALL BE INCLUDED IN THE BID ITEM "SEEDING, TEMPORARY".
19. THE CONTRACTOR SHALL LIMIT THE EXTENT OF TRENCH TO REMAIN OPEN OVERNIGHT AND WEEKENDS TO LESS THAN 50 FEET.
20. THE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM ALL MANHOLE COVERS.
21. THE CONTRACTOR SHALL PREVENT ANY CONSTRUCTION DEBRIS FROM ENTERING THE EXISTING SANITARY SEWER DURING CONSTRUCTION.
22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CONTINUOUS FLOW OF SEWAGE THROUGH CONSTRUCTION. CONTRACTOR'S PROPOSED METHOD FOR MAINTAINING SEWAGE FLOW SHALL BE SUBMITTED AND APPROVED BY THE ENGINEER PRIOR TO STARTING AND BY PASSING OF SEWAGE FLOWS. COST OF MAINTAINING FLOW OF SEWAGE THROUGH CONSTRUCTION WILL NOT BE PAID FOR DIRECTLY AND THIS COST SHALL BE CONSIDERED AS SUBSIDIARY TO THE OTHER RELATED ITEMS OF WORK.
23. CONTRACTOR SHALL NOT DIVERT ANY SEWAGE FLOW THROUGH NEW PIPE OR MANHOLES UNTIL TESTING HAS BEEN COMPLETED AND ACCEPTED.

- CONTROL POINTS** Δ CP#101
- HCP-101
N: 1711202.0671, E: 1603340.6083
1/2 REBAR WITH BLUE "PEC CONTROL POINT" CAP IN GRASS
1. 7.3' W TO EAST EDGE OF N-S SIDEWALK
2. 9.3' S TO N EDGE OF E-W SIDEWALK
3. 68.6' NE TO SW CORNER OF HEADWORKS BUILDING
- HCP-102
N: 1711376.4472, E: 1603370.9824
1/2 REBAR WITH BLUE "PEC CONTROL POINT" CAP IN GRASS
1. 4.0' N TO E-W WROUGHT IRON FENCE
2. 61.4' SSW TO NW CORNER OF HEADWORKS BUILDING
3. 74.2' W TO CL OF WPW TELECOM HANDHOLE
- HCP-103
N: 1711365.0969, E: 1603205.3654
1/2 REBAR WITH BLUE "PEC CONTROL POINT" CAP IN GRASS
1. 12.5' E TO ELECTRONIC GATE CONTROL POST
2. 5.0' SE TO N EDGE OF CURVILINEAR ASPHALT DRIVE
- BENCH MARKS** \oplus BM#201
- BMK-201- CHISELED SQUARE ON NORTHWEST CORNER OF CONCRETE PAD FOR AREA INLET NEAR NORTHWEST CORNER OF BIOFILTER BLOWER BUILDING. ELEV.= 136121 NAVD88
- BMK-202- CHISELED SQUARE ON NORTHEAST CORNER OF CONCRETE PAD AT BASE OF STAIRS NEAR SE CORNER OF AERATION BASIN. ELEV.= 1365.04 NAVD88



SANITARY SEWER RELOCATION
 TO SERVE
 WASTE WATER TREATMENT
 PLANT 3

GARY JANZEN, P.E. - CITY ENGINEER
 CITY OF WICHITA PROJECT NO. 2020-468-004792
 OCA NO. S002 ORG CODE 53200020

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| Issue: | |
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| JOB NO. | 35-197043-015-042 |
| DATE | APRIL 2020 |
| PM | RWG |
| DESIGNED BY | TBK |
| DRAWN BY | CSL |
| CHECKED BY | RWG |

KEY MAP AND GENERAL NOTES

CU102

SAVED 4/23/2020 10:33:21 AM BY CSL
 PLOTTED 5/6/2020 11:22:23 AM BY KURTIS DEKAT
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Wastewater Treatment Plant #3
City of Wichita Project #468-2020-004792
Project No. S0002
ORG Code 83200020
July 9th, 2020

Alternate 12" Sanitary Sewer at Plant #3

Steps and narrative to install the 12" Sewer inside the existing 30" Sewer.

1. First we would need to clean the debris from inside the 30" pipe. We would subcontract cleaning to Mayer Specialty Services to "gently" clean the pipe to remove the gravel which seems to be more in the southern 15' of the line. Taking special care to not make the pipe leak more than it does now.
2. Set up bypass pumping. We would propose to plug effluent of SSM #5 and pump around to the wet well.
3. Construct working platform in wet well. We need to provide a working platform for the entire floor of the wet well just above the pump on elevation. We also need to provide access and egress to the wet well. Any time people are inside the wet well air quality and fresh air would need to be set up and documented, per OSHA requirements. At this point we would drill the holes for the epoxy anchored rebar for the non-shrink grout plug. To be installed in step 7.
4. Install the 12" pipe from the wet well to the SSM#4. Using Certa-Flo lock joint, SDR 26 pipe, construct 150' of pipe and spacers that will center the 12" inside the 30" pipe. Once the pipe is installed, enter the MH SSM#5 and construct a double inside drop as shown on the sketches. Bring the pipe to 0.10' and 0.20' below the effluent of the existing 12" pipe from SSM#5. Cap the 12" pipe at the wet well and block for thrust restraint.
5. Install the specialty plug with 12" A-lok gasket in the middle and a 4" threaded connection on the bottom. As we stop the water flow from infiltration, we will fill the 12" pipe as not to allow the pipe to float or become misaligned. We will need to have the 4" line extended, and a valve installed to keep the water in the pipe.
6. Grout the annular space between 30" and 12". We will push grout into the 4" line with a concrete pump. We will keep the static water at or above the static water level as to make the entire pipe and manhole static. Continue to pump until the concrete level is approximately 1' below the flowline of the 12' pipe coming from SSM#5. This should now have the annular space and the manhole full of grout. We are suggesting a 6-sack city sand mix. The next day we can pump the remaining water from the manhole and install an invert to shape the water to the inside drop then to the overflow pipe.
7. Install non shrink grout plug. Continue to construct the non-shrink grout plug as described in the plans.

WILCOAT

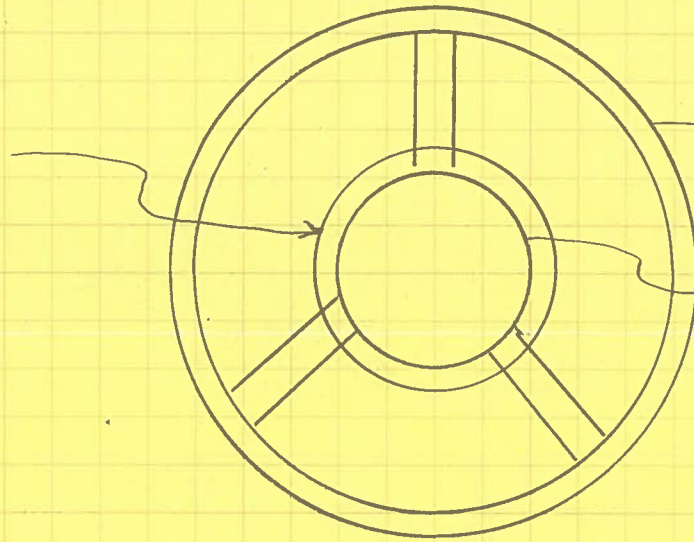
construction

DATE _____

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PROJECT _____

10' Joints
SDR 26
CERTA FLO
OD = 12.75"

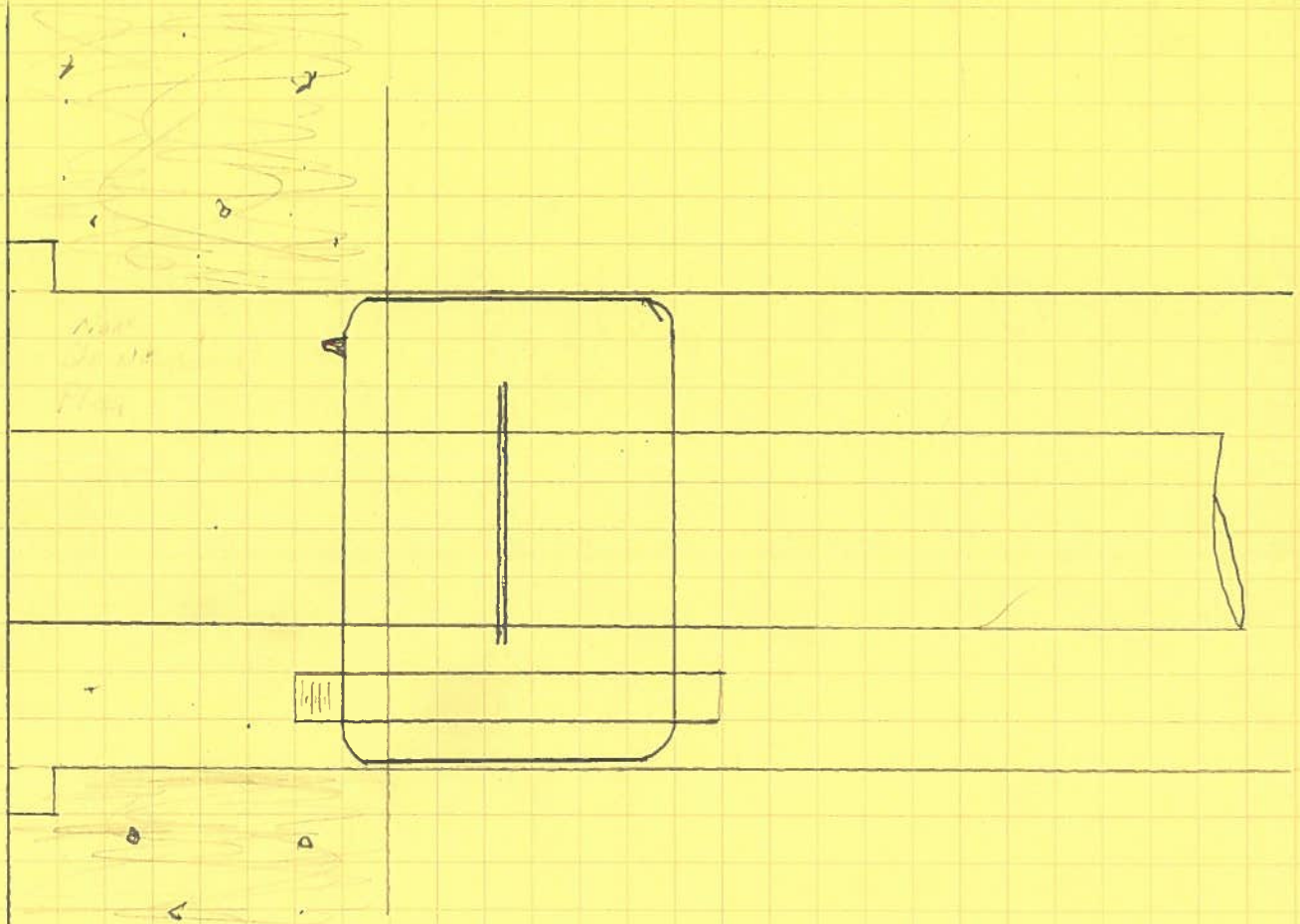


Existing 30"

New 12"

SPACERS @ 5' OC

Wet
Well



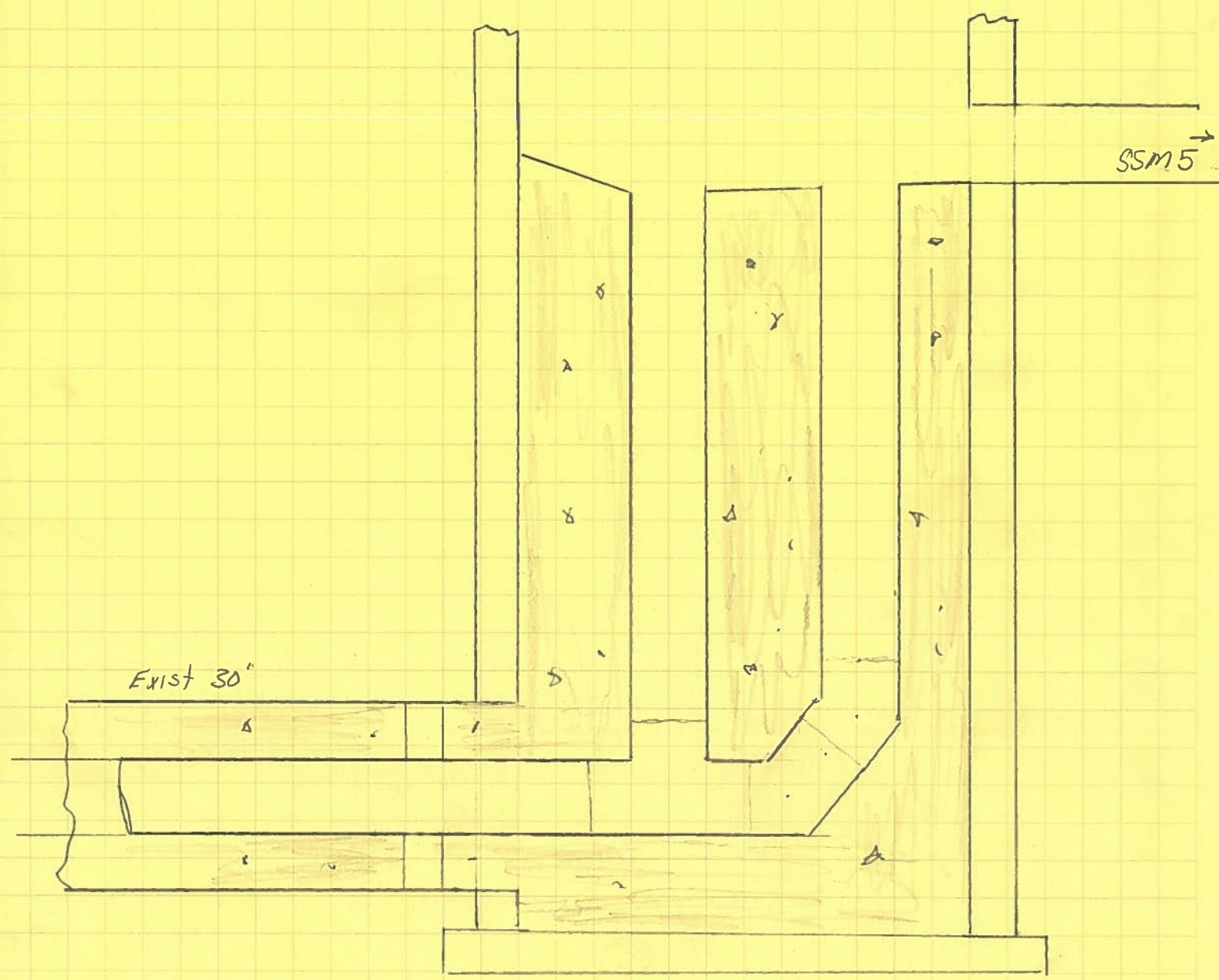
WILDCAT

construction

DATE _____

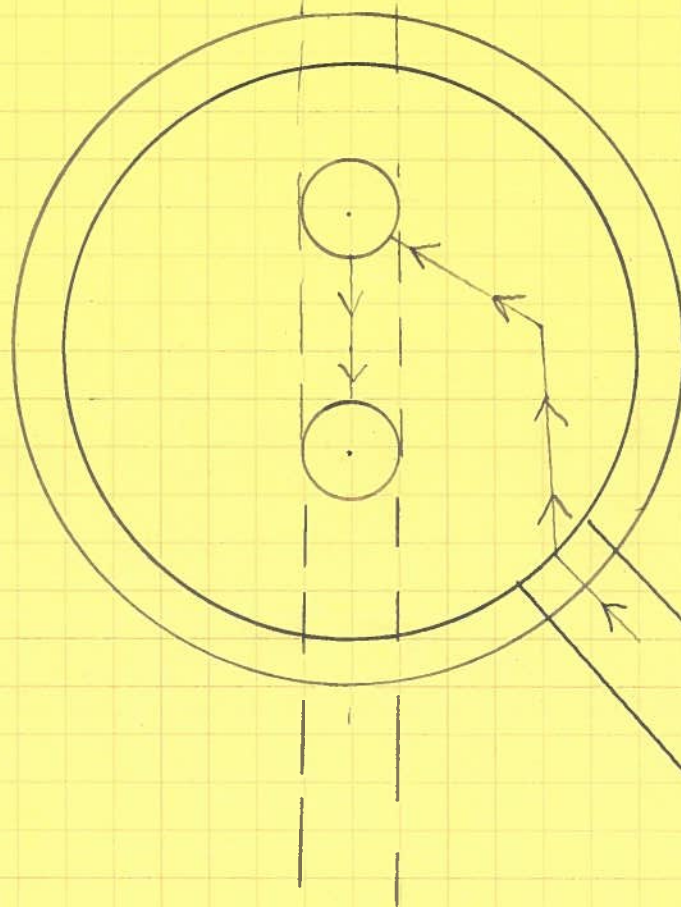
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PROJECT Plant 3 SSM#4

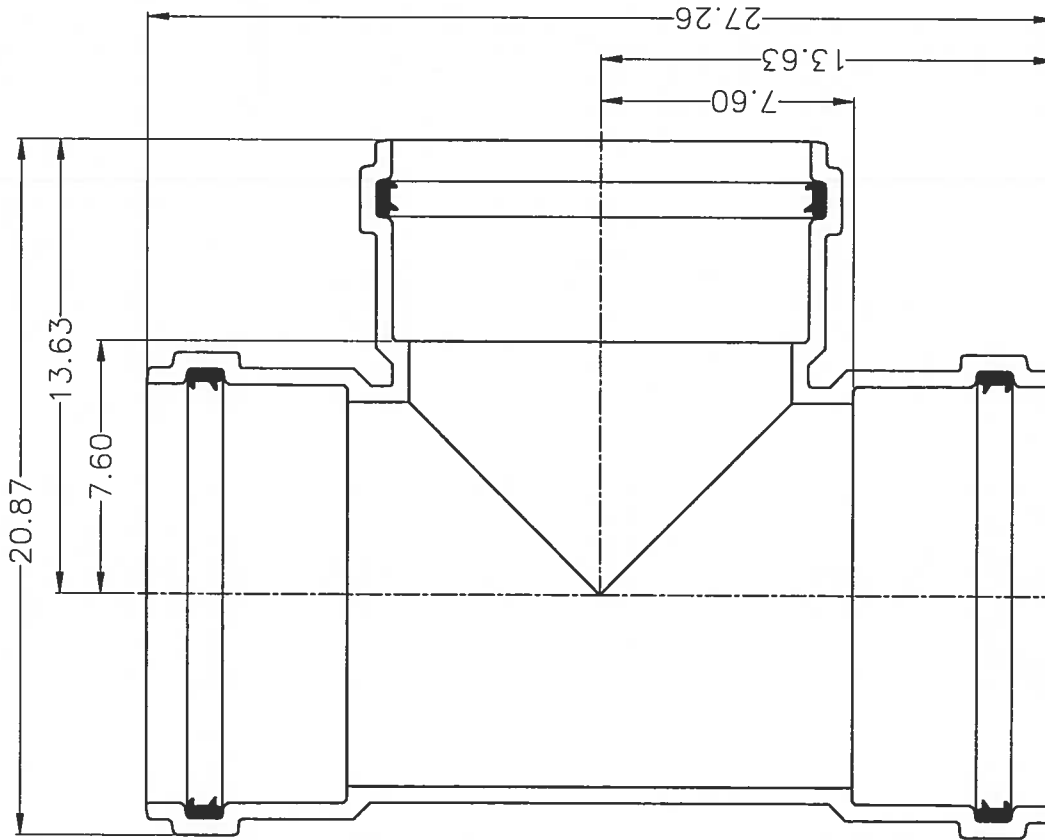




SSM4



12"
From SSM5



12" SDR-26
GASKET HUB
ALL ENDS.

D01 28OCT09 RELEASED - KBL

PLASTIC TRENDS
.COM

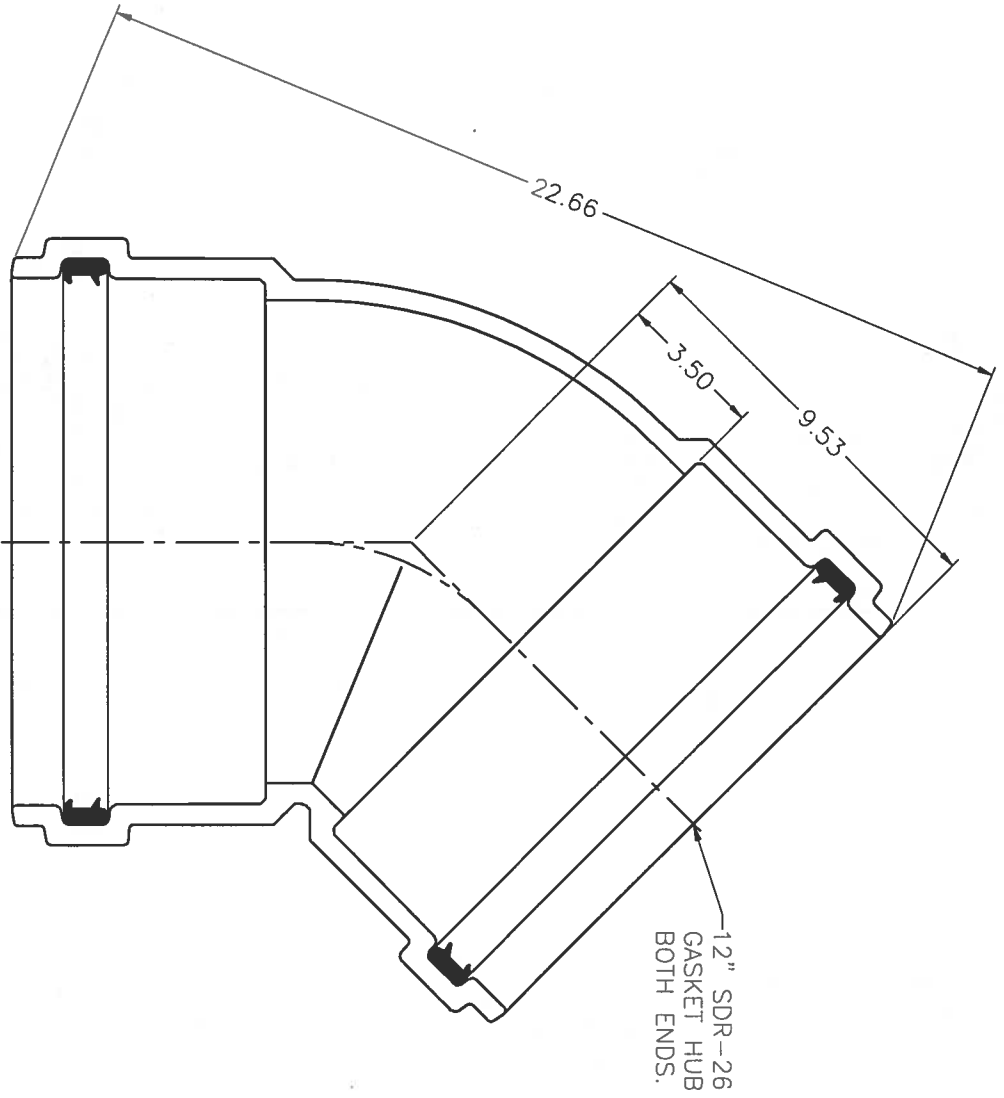
58400 Mound Road, Shelby Township, MI 48316
Phone (588) 781-2700 Fax (588) 781-0888

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DATE 28APR08 BY KBL

H1012.D01

SDR 26 GASKET TEE

12X12X12



SDR 26 GASKET 1/8 BEND

12X12

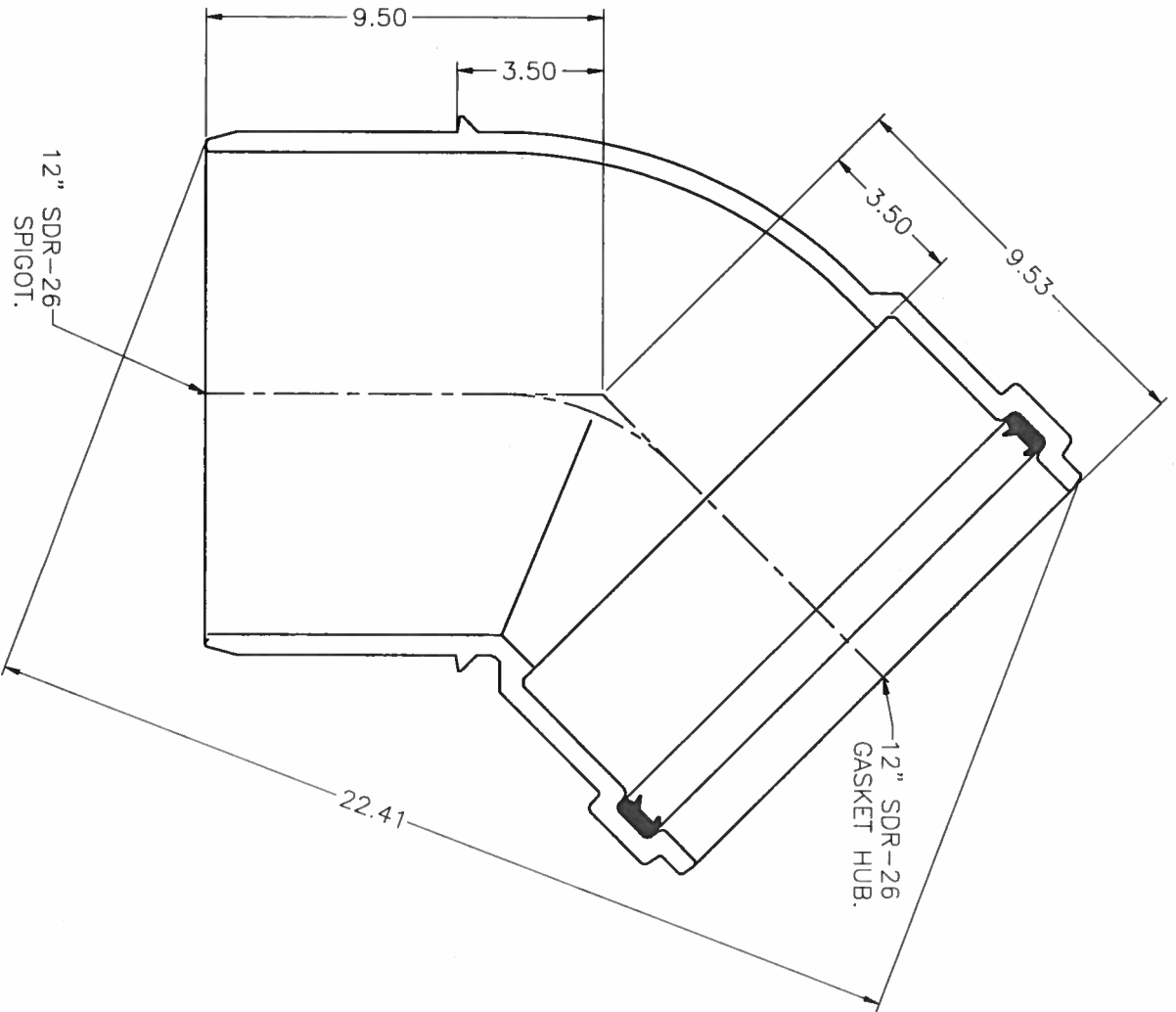
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SDR 26 GASKET 1/8 BEND SPIGOT

12X12

D01 29OCT09 RELEASED - KBL

PLASTIC TRENDS

COM

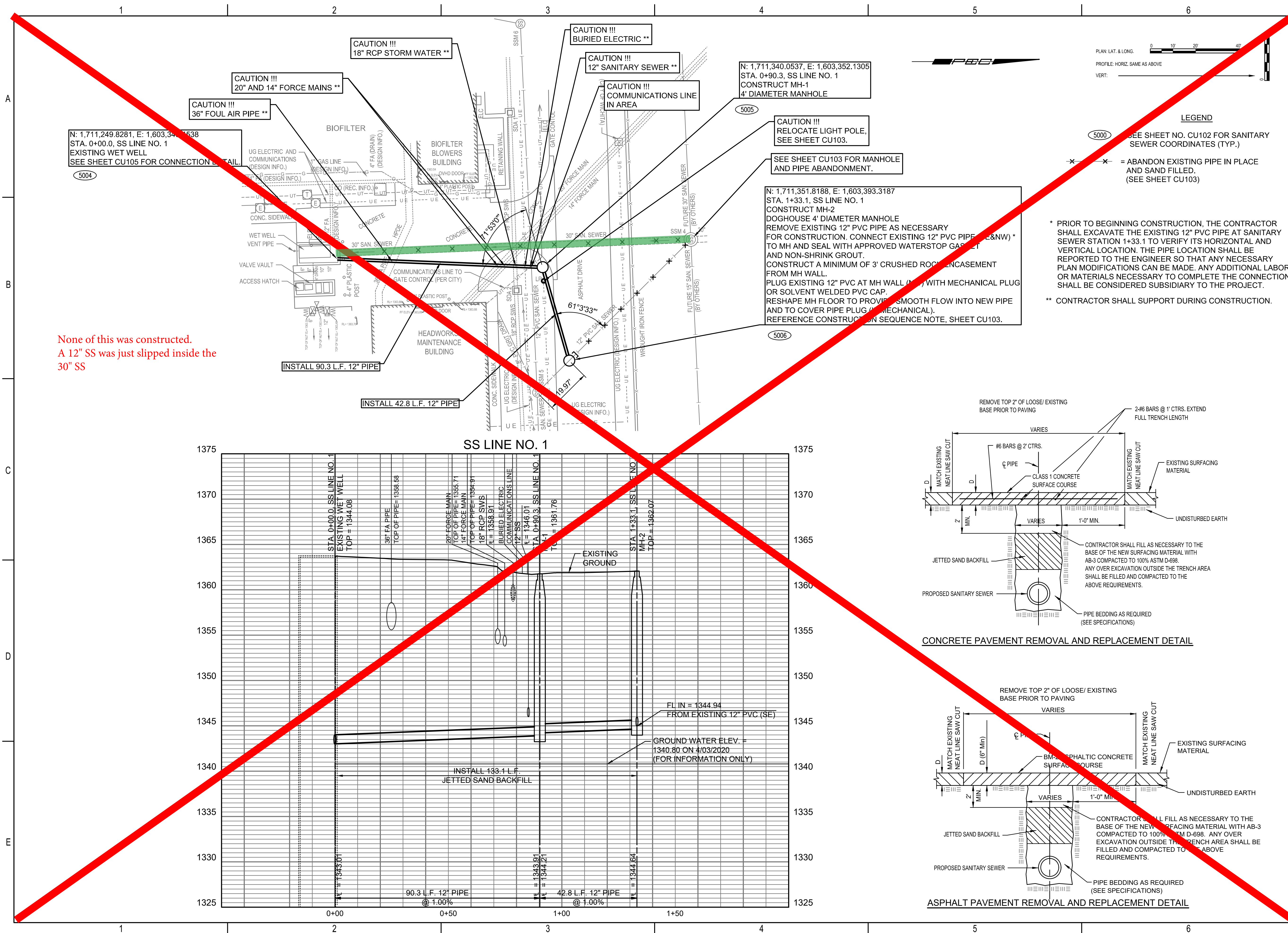
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SAVED 5/1/2020 4:31:10 PM BY TREVOR KAUFMAN
 PLOTTED 5/6/2020 11:23:01 AM BY KURTIS DEKAT
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None of this was constructed.
 A 12" SS was just slipped inside the
 30" SS



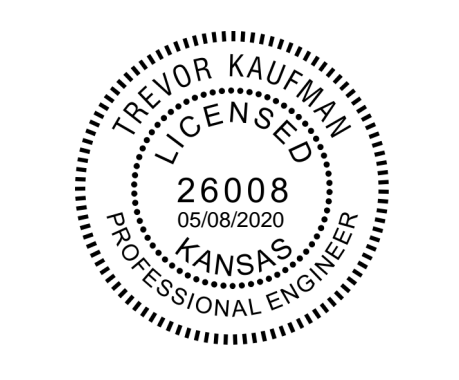
LEGEND

5000 SEE SHEET NO. CU102 FOR SANITARY SEWER COORDINATES (TYP.)

* = ABANDON EXISTING PIPE IN PLACE AND SAND FILLED. (SEE SHEET CU103)

* PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE THE EXISTING 12" PVC PIPE AT SANITARY SEWER STATION 1+33.1 TO VERIFY ITS HORIZONTAL AND VERTICAL LOCATION. THE PIPE LOCATION SHALL BE REPORTED TO THE ENGINEER SO THAT ANY NECESSARY PLAN MODIFICATIONS CAN BE MADE. ANY ADDITIONAL LABOR OR MATERIALS NECESSARY TO COMPLETE THE CONNECTION SHALL BE CONSIDERED SUBSIDIARY TO THE PROJECT.

** CONTRACTOR SHALL SUPPORT DURING CONSTRUCTION.



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| CHECKED BY | RWG |
| SANITARY SEWER LINE NO. 1 | |

CU104

