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. THE 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 (GAS)	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 ITS OWNER DURING CONSTRUCTION. EXISTING UTILITIES AND THEIR LOCATION, AS SHOWN ON THE PLAN, 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 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 OF ENGINEERS PERMITTING REGULATIONS, ANY MATERIAL BURIED OR STOCKPILED BEYOND APPROVED CONSTRUCTION LIMITS WOULD 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. THE CONTRACTOR SHALL NOTIFY THE CONSULTANT ENGINEER AND TOM MASON WITH THE CITY AT 316-268-4574 WITH THE ANTICIPATED CONSTRUCTION START DATE AND NOTIFY THEM OF PROJECT COMPLETION. STAKING AND INSPECTION FOR THIS PROJECT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

10. 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 CONTRACTOR'S RESPONSIBILITY.

11. ALL ELEVATIONS SHOWN ARE CARGILL DATUM DATUM. (CARGILL DATUM + 1188.2 = NAVD 88).

12. ALL AREAS DISTURBED DURING CONSTRUCTION THAT WILL NOT BE UNDER PROPOSED PAVEMENT SHALL BE RESTORED TO MATCH EXISTING CONDITIONS.

13. FOLLOW THE LINK BELOW FOR SPECIFIC CITY OF WICHITA STANDARD DETAILS:
    http://www.wichita.gov/government/departments/pwu/standardsconstruction

14. CONTRACTOR SHALL LIMIT THE EXTENT OF TRENCH OPEN OVERNIGHT AND WEEKENDS TO LESS THAN 50 FEET.

15. EXISTING UTILITIES AND THEIR LOCATION, AS SHOWN ON THE PLANS REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS COMPANIES AND IS EITHER FROM COMPANY UTILITY DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE PLAN LOCATIONS SHOWN ARE NOT GUARANTEED. ADDITIONAL EXISTING UTILITIES MAY ALSO BE ENCOUNTERED.

16. A PORTION OF EXCESS EXCAVATED MATERIAL SHALL BE MOUNDED AROUND MANHOLES WHICH EXTEND MORE THAN ONE (1) FOOT ABOVE THE EXISTING GROUND. SUCH MOUND SHALL BE CONSTRUCTED WITH NEW DEVELOPMENT A SIX (6) FOOT DIAMETER FLAT TOP WITH 4 TO 1 SIDE SLOPES DOWN TO THE ORIGINAL GROUND, THE ELEVATION OF THE FLAT TOP OF THE MOUND SHALL BE 0.4 FOOT BELOW THE TOP OF THE MANHOLE.

17. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM ALL MANHOLE COVERS.

18. THE CONTRACTOR SHALL PREVENT ANY CONSTRUCTION DEBRIS FROM ENTERING THE EXISTING SANITARY SEWER DURING CONSTRUCTION.

19. 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 SEWER MAINTENANCE DIVISION (316-268-4073) PRIOR TO STARTING AND BY-PASSING OF SEWAGE FLOWS.

20. ANY OVER EXCAVATION FROM MANHOLE AND PIPE REMOVAL SHALL BE BACKFILLED WITH AB-3 COMPACTED TO 90-95% ASTM D698.

21. ANY SIDEWALK, DRIVE APPROACH, CURB, OR STREET PAVEMENT WITHIN PUBLIC RIGHT-OF-WAY REMOVED TO CONSTRUCT PROJECT MUST HAVE A PAVEMENT CUT PERMIT AND BE REPLACED BY THE CITY CONTRACTOR. PERMITS CAN BE OBTAINED BY CALLING 316-268-4501 OR 316-268-4480.

22. WORK DONE UNDER THIS PROJECT IS SUBJECT TO THE CITY OF WICHITA REQUIREMENTS FOR "CONSTRUCTION OF INFRASTRUCTURE IMPROVEMENTS BY PRIVATE CONTRACT". THE CONTRACTOR SHALL BE FAMILIAR AND COMPLY WITH ALL OF THE REQUIREMENTS, INCLUDING BONDING, INSPECTION, TESTING, NOTIFICATION, PROVIDING AS-BUILT DRAWINGS, PAYING FOR ALL NECESSARY CONNECTIONS, AND/OR STREET REPAIR FEES AND PROVIDING PIPE MATERIAL AND OTHER CERTIFICATIONS.

23. DEVELOPER FOR THIS PROJECT IS:
    CARGILL, INC.
    1401 N. MOSLEY
    WICHITA, KS, 67214
    EDMUNDO GABALDON
    (316) 263-1910

PRIVATE SANITARY SEWER

TO SERVE

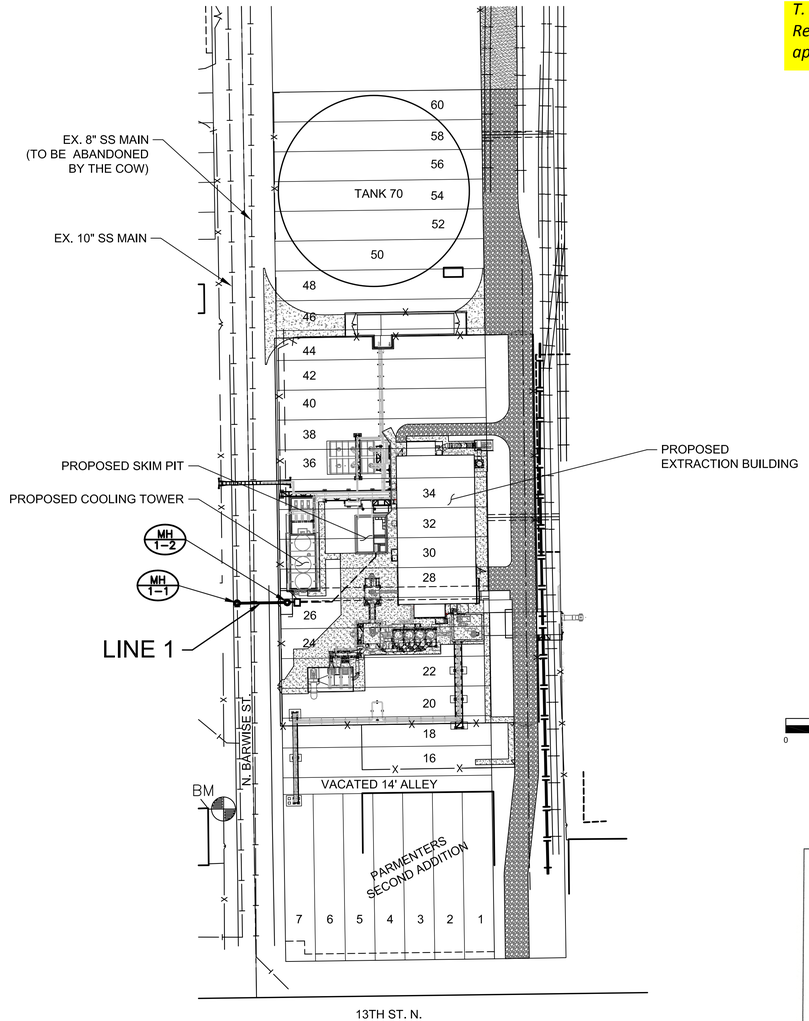
CARGILL SANDERS SKIM PIT

1401 N. MOSLEY
WICHITA, KS 67214

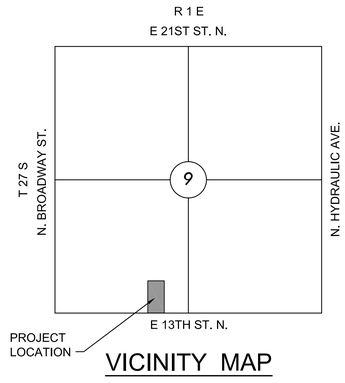
PROJECT NO. 2287 PPS

THE CITY OF WICHITA, KANSAS
GARY JANZEN, P.E. - CITY ENGINEER

OCA NO. 607861



T. Mason - City of Wichita, Inspector
Release Date: 9/13/2017
apr 9/13/17



VICINITY MAP

No Scale

INDEX TO DRAWINGS

2287PPS SHEETS - 1 & 2

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	PLAN & PROFILE

PER GENERAL NOTE 13, CONTRACTOR SHALL DOWNLOAD CITY OF WICHITA SANITARY DETAILS SS-101 AND SS-102.

PER GENERAL NOTE 13, CONTRACTOR SHALL DOWNLOAD ALL 5 CITY OF WICHITA BMP DETAILS FOR UTILIZATION AS NECESSARY.

ELECTRICAL AND CONTROLS SHEETS - 3 THROUGH 7

SHEET NO.	DESCRIPTION
3	PROJECT AREA PLAN
4	SUMP DETAIL
5	RACK DETAIL
6	MANHOLE DETAIL
7	WIRING DIAGRAM

BENCHMARK AND CONTROL POINTS

DATUM:
THE DATUM ON THIS PROJECT ARE BASED ON PREVIOUSLY ESTABLISHED COORDINATES.

CONTROL:
HORIZONTAL

PT. NO.	NORTH	EAST	ELEV.	DESCRIPTION
104	1694086.911	1651182.949	116,788	PK NAIL W/ MKEC ID WASHER
111	1695145.160	1651134.046	117,250	5/8" REBAR W/ RED MKEC DESIGN PT. ID CAP
202	1694398.529	1651143.572	117,770	CHISELED "X"
206	1694481.236	1651184.428	116,876	PK NAIL
207	1694630.258	1651139.866	116,007	CHISELED "X"
208	1694866.644	1651170.628	115,701	PK NAIL

BM - CHISELED SQUARE ON TOP OF RETAINING WALL AT NORTHEAST CORNER OF TRANSFORMER CONTAINMENT, SOUTH OF GEKA BUILDING.
ELEVATION = 118.79 (CARGILL DATUM)

LEGEND

- EXISTING SEWER
- PROPOSED SEWER (PRIVATE 8")
- PROPOSED SEWER (PRIVATE 6" AND SMALLER)

AS-BUILT PLANS - AUGUST 2017

INSPECTED BY: LARRY SCHALLER & GENE RATH, MKEC ENGINEERING INC.
CONSTRUCTED BY: WILDCAT CONSTRUCTION
SUPERINTENDENT: BRAD REICHENBERGER
SUPPLIER: WICHITA CONCRETE PIPE & WICHITA WINWATER

STEVEN L. FRANK
KANSAS PE#23731

SHT.	TITLE
1	TITLE SHEET
2	PLAN AND PROFILE SHEET

APPROVED AS NOTED
BY WICHITA PUBLIC WORKS
ENGINEERING DIVISION

Engineering 4/8/2017

Utilities 9-18-17

NOTE TO CONTRACTORS

Public Property:

Inspection and testing for this project is to be provided by a Licensed Consulting Engineering Firm under contract with the Owner/Developer. Said inspection to be in accordance with the City of Wichita standard construction engineering practices and certified by a Licensed Professional Engineer in the state of Kansas. No work shall be performed by the Contractor without such inspection nor shall any work be commenced without written authorization by City Engineering. All Construction and Materials shall comply with the current City of Wichita Specifications and Standards and Special Provisions. (on file and available at Wichita.gov).

An approved copy of these plans signed by City staff is required on-site.

MKEC
Wichita, KS • 316-684-9600

PRIVATE SANITARY SEWER PLANS FOR
CARGILL SANDERS SKIM PIT
WICHITA, KANSAS

TITLE

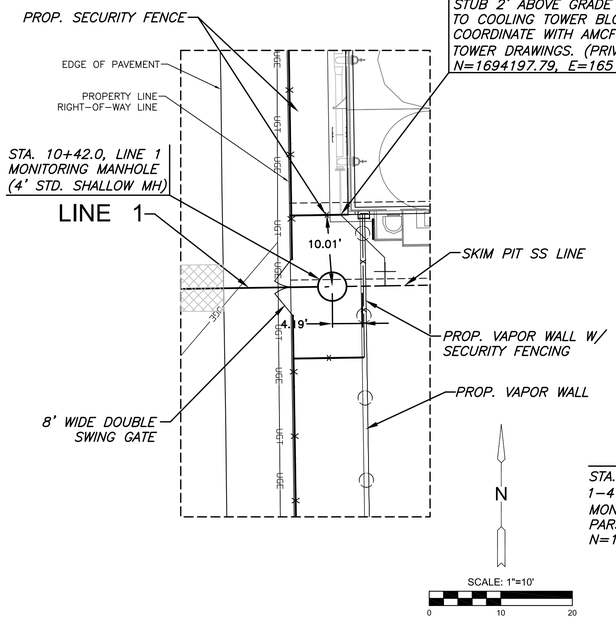
PROJECT NO.	2287 PPS
DATE	JAN. 2017
SCALE	1"=60'

DESIGNED	DRAWN	CHECKED
SLF	SLF	MAB

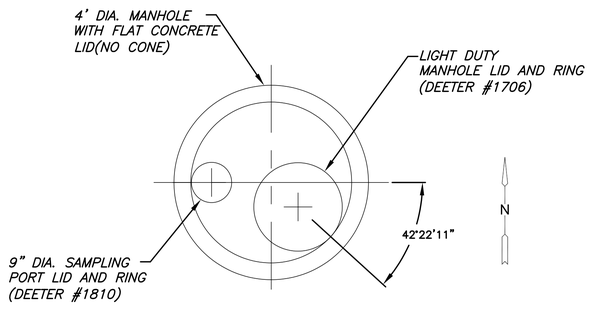
NO.	REVISION	DATE
0	IFC	3-24-17

SHEET NO.

01 OF 07



MONITORING MANHOLE TOP/ACCESS DETAIL

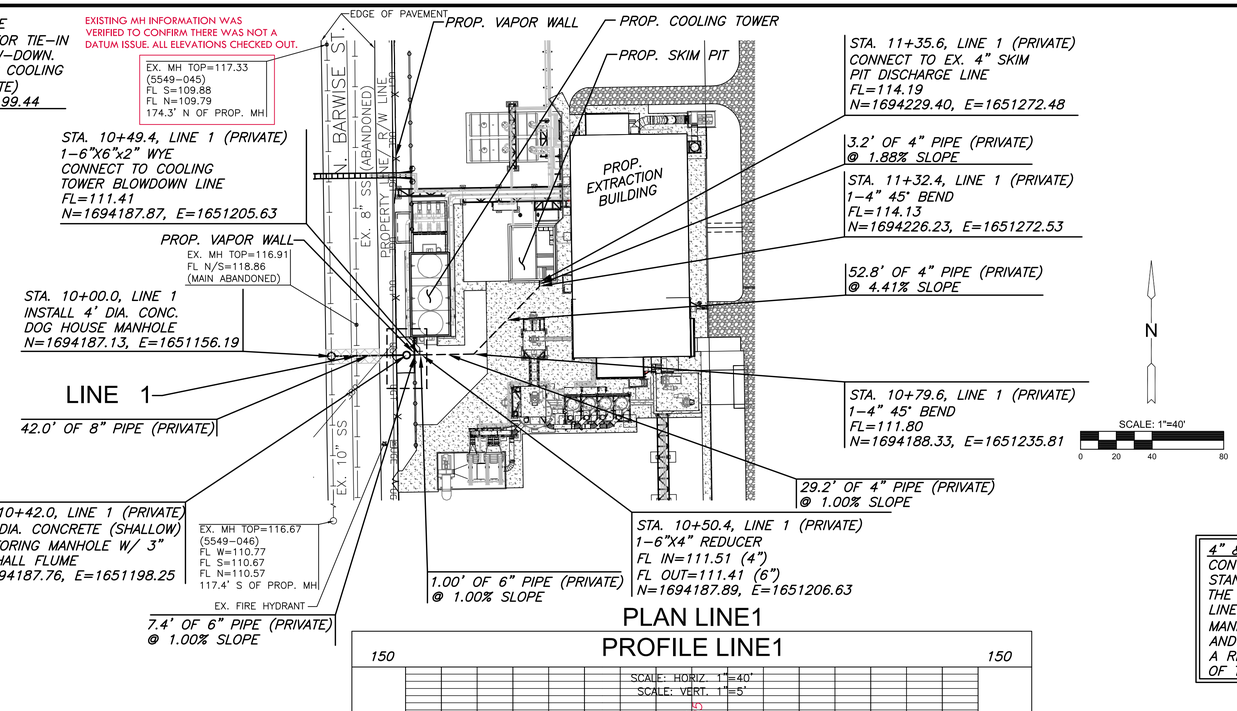


MONITORING MANHOLE NOTES

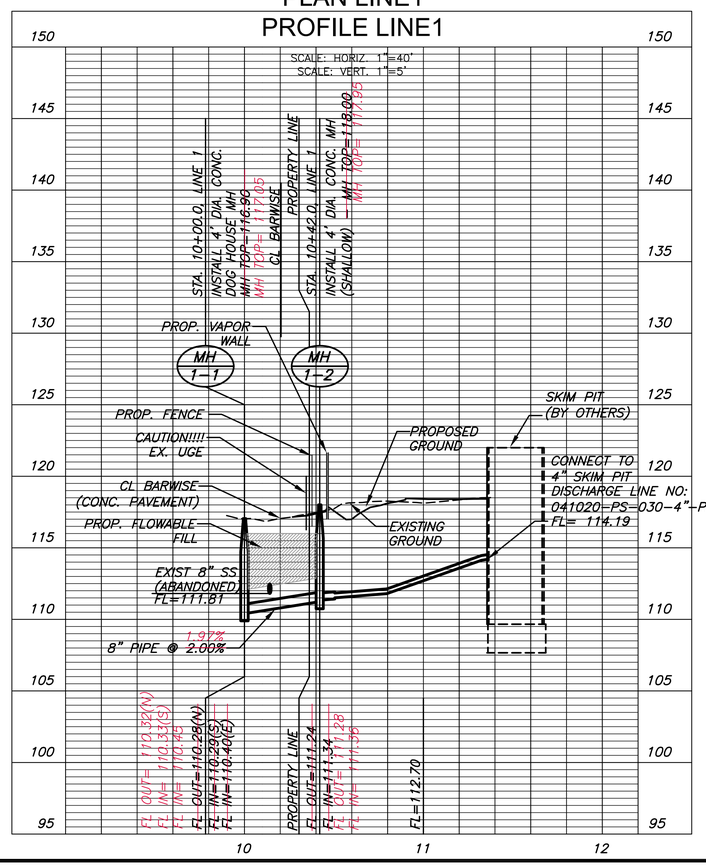
1. THE MANHOLE STRUCTURE SHALL BE 4' IN DIAMETER AND CONCRETE IN CONSTRUCTION.
2. THE MANHOLE STRUCTURE TOP SHALL BE FLAT(INSTEAD OF THE TYPICAL CONE) WITH TWO ACCESS POINTS CAST INTO THE CONCRETE TOP AS DETAILED ABOVE.
3. THE MANHOLE SHALL HAVE A FLOW MEASUREMENT FLUME CAST INTO THE BASE OF THE STRUCTURE. THE FLUME SHALL HAVE A 3" THROAT WIDTH WITH A CAPABILITY TO MEASURE ACCURATE FLOW RATES FROM 20-200 GPM. PARSHALL FLUME SHALL BE KENCO PLASTICS, INC. PRODUCT OR APPROVED EQUAL. CONTRACTOR SHALL SUBMIT PARSHALL FLUME SHOP DRAWINGS AND SPECIFICATIONS TO ENGINEER, PRIOR TO CASTING INTO MANHOLE STRUCTURE, FOR APPROVAL.
4. REFER TO MKEC ELECTRICAL AND CONTROLS DRAWINGS FOR ADDITIONAL INSTRUMENTATION REQUIREMENTS RELATED TO FLOW TESTING, MEASUREMENT, AND ANALYSIS.

BEDDING AND BACKFILL NOTES

1. PIPE BEDDING SHALL BE TYPE 1 OR TYPE 2 AS DESCRIBED IN THE CITY OF WICHITA STANDARD SPECIFICATIONS FOR THE CONSTRUCTION OF PUBLIC PROJECTS.
2. TRENCHES WITHIN THE CITY RIGHT-OF-WAY AND UNDER EXISTING CITY STREETS SHALL BE BACKFILLED WITH FLOWABLE FILL TO AN ELEVATION 2' BELOW EXISTING PAVEMENT PER THE CITY OF WICHITA STANDARD SPECIFICATIONS FOR THE CONSTRUCTION OF PUBLIC PROJECTS.
3. TRENCHES OUTSIDE OF THE CITY'S RIGHT OF WAY SHALL BE BACKFILL WITH SUITABLE EXCAVATED MATERIAL MECHANICALLY COMPACTED TO A DENSITY EQUAL TO OR GREATER THAN 95% OF STANDARD DENSITY(ASTM D698).
4. RECONSTRUCTION OF CONCRETE PAVEMENT SHALL CONFORM TO THE REQUIREMENTS OF SECTION 406 OF THE CITY OF WICHITA STANDARD SPECIFICATIONS FOR THE CONSTRUCTION OF PUBLIC PROJECTS.



PLAN LINE1



LEGEND

- PAVEMENT REMOVAL AND REPLACEMENT
- FLOWABLE FILL
- PROPOSED 8" SS MAIN
- PROPOSED PRIVATE SS SERVICE LINE (6" AND SMALLER)

AS-BUILT PLANS - AUGUST 2017

VAPOR WALL NOTE:
THE VAPOR WALL FOOTINGS ARE 2' DIA. BY 6' DEEP REINFORCED CONCRETE PIERS. THE FOOTING SPACING VARIES; HOWEVER, THE LOCATION OF THE SKIM PIT LINE WAS KNOWN AT THE TIME OF WALL DESIGN.

NOTE:
CONTRACTOR TO VERIFY THE DEPTH AND LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.

PIPE MATERIAL:
SKIM PIT DISCHARGE PIPING UPSTREAM OF THE MONITORING MANHOLE SHALL BE SDR 17 HDPE(PE3408/PE4710) IN ACCORDANCE WITH ASTM F714, AWWA C906.

SKIM PIT DISCHARGE PIPING DOWN STREAM OF THE MONITORING MANHOLE SHALL CONFORM TO THE CITY OF WICHITA STANDARD SPECIFICATION FOR PVC PIPE.

4" & 6" SERVICE LINE NOTE:
CONTRACTOR SHALL OBTAIN A STANDARD SEWER PERMIT FOR THE INSTALLATION OF THE SERVICE LINE UPSTREAM OF THE MONITORING MANHOLE. THE 8" MAIN INSTALLATION AND TESTING ACCEPTANCE WILL BE A REQUIREMENT FOR THE ISSUANCE OF THE SEWER PERMIT.

MKEC
Wichita, KS • 316-684-9600

PRIVATE SANITARY SEWER PLANS FOR

CARGILL SANDERS SKIM PIT

WICHITA, KANSAS

PLAN AND PROFILE

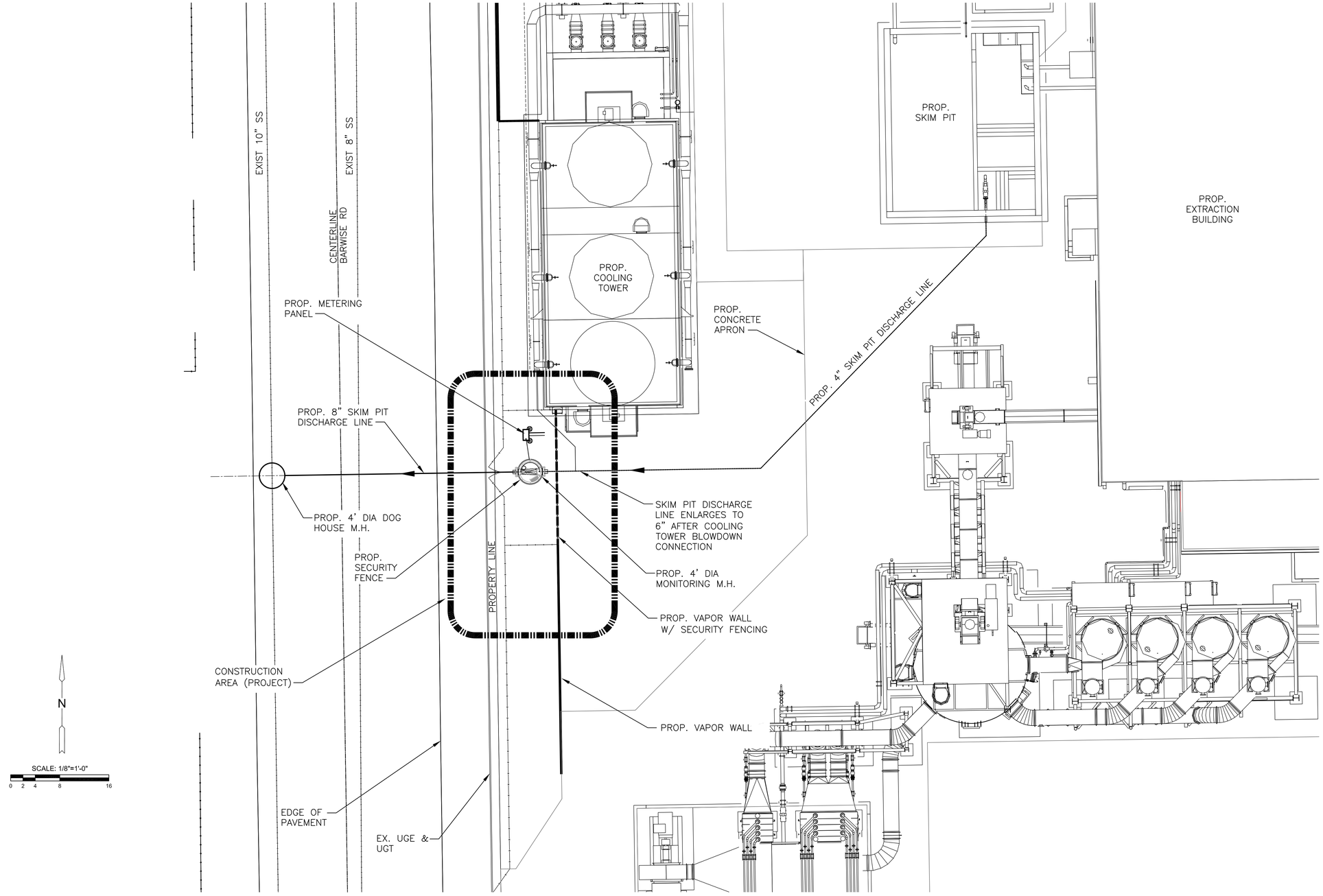
PROJECT NO.	2287 PPS
DATE	JAN. 2017
SCALE	1'=40'

DESIGNED	DRAWN	CHECKED
SLF	SLF	MAB

NO.	REVISION	DATE
0	IFC	3-24-17

SHEET NO.

02 OF 07



MKEC
Wichita, KS • 316-684-9600

PRIVATE SANITARY SEWER PLANS FOR

CARGILL SANDERS SKIM PIT

WICHITA, KANSAS

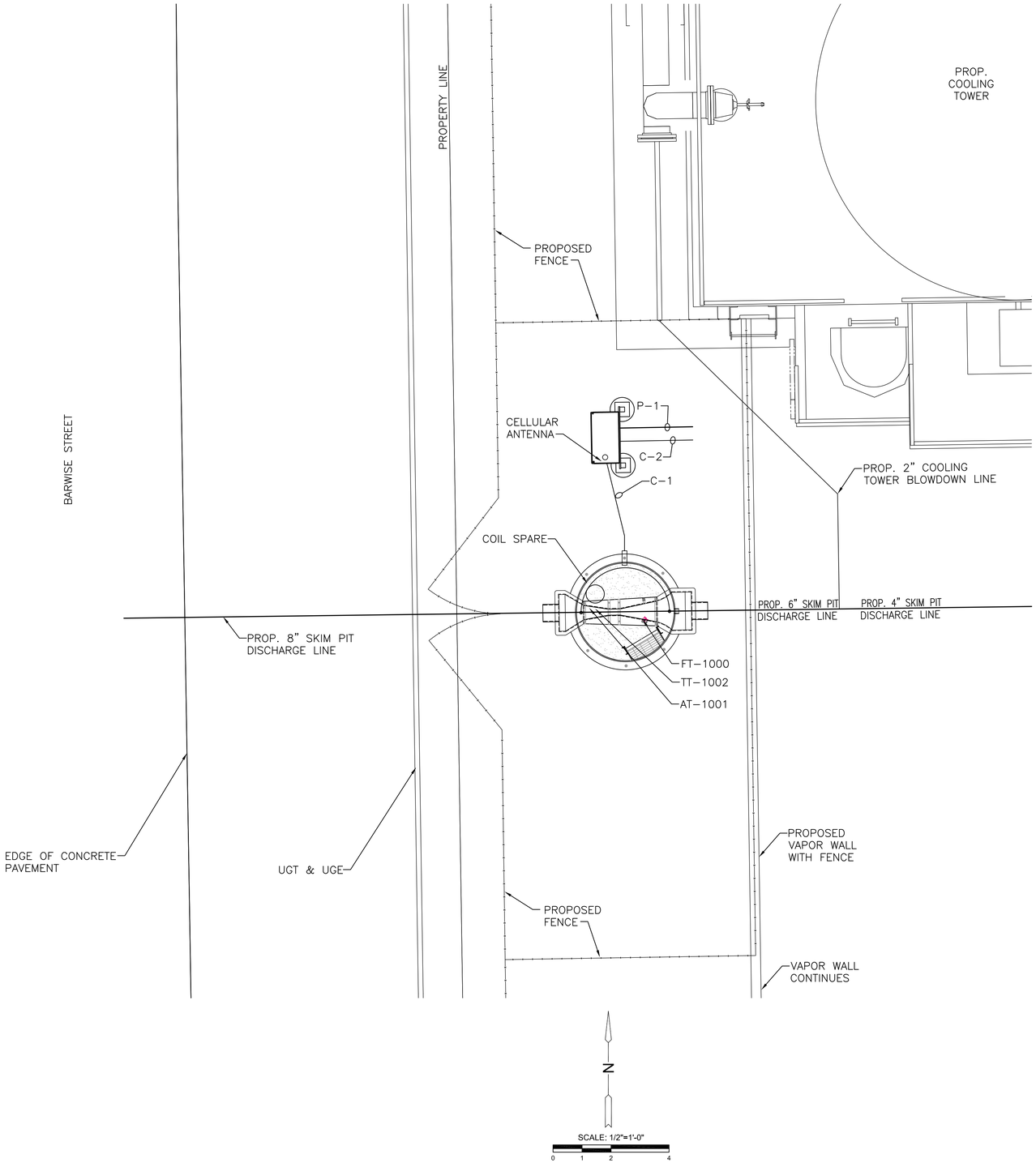
PROJECT AREA PLAN

PROJECT NO.	2287 PPS
DATE	JAN. 2017
SCALE	AS NOTED
DESIGNED	DRAWN CHECKED

NO.	REVISION	DATE

SHEET NO.

03 OF 07



NOTES:
1. FLOW METER AND P.H. PROBE CABLES E/C WILL COIL SPARE ON HOOKS IN MANHOLE.
2. COIL AND TAPE SPARE INSTRUMENT AND POWER CABLES IN J-BOX. CABLE LABEL WILL DESCRIBE ORIGIN OF CABLE.
3. P.H. PROBE AND RTD WILL MOUNT ON FIELD FABRICATED BRACKETS BY ELECTRICAL CONTRACTOR.
4. 120VAC POWER TO FLOW METER WILL BE DETERMINED BY E/C AND PLANT PERSONNEL.
5. TEMP & P.H. PROBE WILL BE ACCESSABLE VIA SMALL MANWAY.

CONDUIT & WIRE BOM

ITEM	DESC.
C-1	1-1/2" CONDUIT, 1 FACTORY CABLE ASSM. FT-1000 FLOWMETER, 2 BELDEN TWISTED SHIELDED PAIR AT-1001, TT-1002
C-2	1" CONDUIT, 3 BELDEN (TWISTED SHIELDED PAIR): FI-1000, AT-1001, TT-1002
P-1	1" CONDUIT, 120VAC POWER TO FLOW METER AND RECEPTACLES 2#12, 1#12 GND.

MKEC
Wichita, KS • 316-684-9600

PRIVATE SANITARY SEWER PLANS FOR

CARGILL SANDERS SKIM PIT

WICHITA, KANSAS

SUMP DETAIL

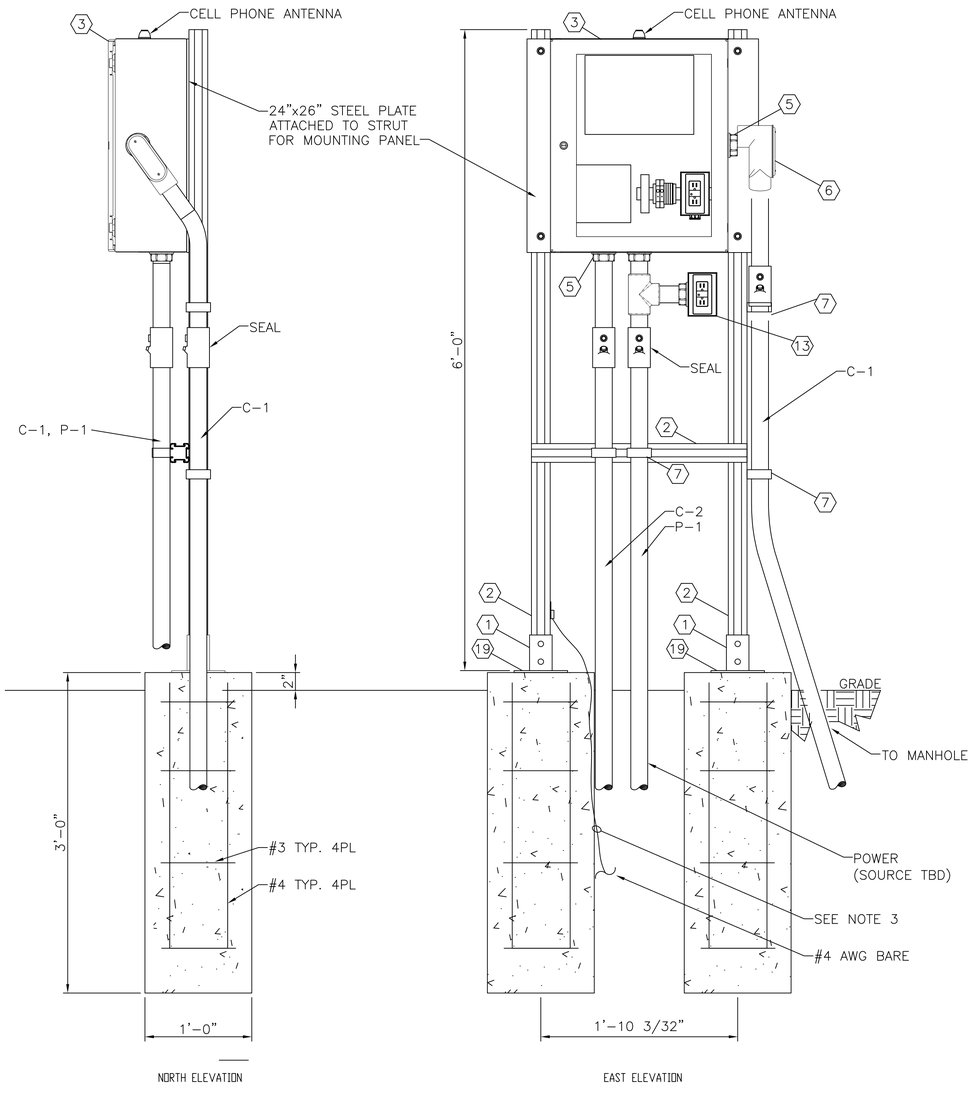
PROJECT NO.	2287 PPS
DATE	JAN. 2017
SCALE	AS NOTED

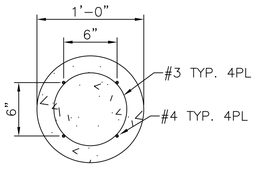
DESIGNED	DRAWN	CHECKED
DAS	WAA	DAS

NO.	REVISION	DATE

SHEET NO.

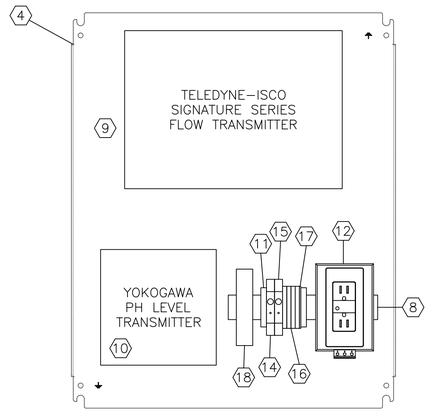
04 OF 07





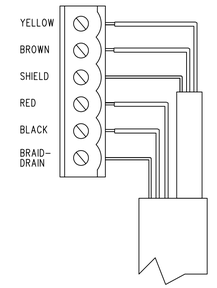
1 PANEL RACK

SCALE: N.T.S.



2 PANEL LAYOUT

SCALE: N.T.S.



1. REMOVE ONE OF THE 6-POSTIONS PLUG-IN TERMINAL STRIP CONNECTORS FROM THE CONNECTOR CASE.
2. IF USING A CORD-GRIP FITTING, INSTALL THE CABLE NUT IN THE APPROPRIATE OPENING ON THE BOTTOM OF THE SIGNATURE ENCLOSURE, SECURING IT TO THE WALL WITH THE LOCK NUT (CONCAVE SIDE FACING WALL)
3. FEED THE TIENET DEVICE CABLE END THROUGH THE SEALING NUT AND SEAL, AND THROUGH THE CABLE NUT. LIGHTLY TIGHTEN THE SEALING NUT, JUST ENOUGH TO HOLD THE CABLE IN PLACE WHILE INSTALLING THE CONNECTOR.
4. ATTACH THE WIRE ENDS TO THE TERMINAL STRIP AS SHOWN ABOVE, THEN PRESS THE TERMINAL STRIP BACK DOWN INTO ITS SOCKETS ON THE CASE BOARD, TAKING CARE NOT TO STRAIN ANY WIRE CONNECTIONS. GENTLY TUG EACH WIRE WHEN FINISHED, TO VERIFY SECURE CONNECTION TO THE SCREW TERMINALS.

3 CONNECTING TIENET DEVICES

SCALE: N.T.S.

NOTES:
1. E/C TO SIZE ENCLOSURE. FLOW METER AND PH METER WILL BE VISIBLE THROUGH ENCLOSURE WINDOW. ENCLOSURE WILL BE LOCKABLE.
2. IF USING CONDUIT INSTEAD OF THE CORD-GRIP FITTING, THE CONDUIT MUST BE SEALED TO PREVENT HARMFUL GASES AND MOISTURE FROM ENTERING THE SIGNATURE ENCLOSURE. FAILURE TO SEAL CONDUIT COULD REDUCE EQUIPMENT LIFE.
3. E/C TO EXTEND #4 AWG BARE COPPER GROUND TO NEAREST STRUCTURE OR GROUND POINT. (COOLING TOWER GROUND GRID).
4. E/C TO USE FORM 8 FITTINGS TO PROTECT CABLE BEND RADIUS.
5. CONSULT INSTALLATION MANUAL FOR HARD WIRING POWER CONNECTIONS.
6. FORM PEARS WITH 12" SONO-TUBE. USE HILTI ANCORS TO SECURE UNISTRUT POST BASE TO CONCRETE PEAR WITH REINFORCING SEEEL AS SHOWN SEE SECTION VIEW THIS PAGE.

INST. RACK BOM

ITEM #	QTY.	MFR. PART #	DESC.
1	2	4D280SQ	4D STRUT POST BASE
2	3	4D22	4D STRIT 2" CHANNEL – 6'
3	1	CSD24208WSS	HOFFMANN SS ENCLOSURE
4	1	CP2420	HOFFMANN BACKPLATE
5	2		1-1/2" MYERS HUB CONDUIT FITTING
6	1		1-1/2" LB CONDUIT BODY FORM 8
7	4		1-1/2" MINERALLAC STRAP
8	1	0514570000	WEIDMULLER 35MM DIN RAIL
9	1	60-431-4005	TELEDYNE-ISCO FLOW METER
10	1	FLXA202	YOKOGAWA PH TRANSMITTER
11	2	EW35	WEIDMULLER DIN RAIL ANCHOR
12	1		PHOENIX CONTACT 15A RECEPTACLE
13	1		OUTDOOR GFCI RECEPTACLE WITH WEATHERPROOF IN-USE COVER
14	1	BR1D10AC	WEIDMULLER 10A DIN RAIL CIRCUIT BREAKER
15	1	BR1D15AC	WEIDMULLER 15A DIN RAIL CIRCUIT BREAKER
16	4	WDU4	WEIDMULLER TERMINAL BLOCK
17	1	WAP	WEIDMULLER END PLATE
18	1	YTA70P	YOKOGAWA DINRAIL MOUNT TEMPERATURE TRANSMITTER
19	8	KBTZ 1/2"X4-1/2"	HILTI CONCRETE ANCHORS

MKEC
Wichita, KS • 316-684-9600

PRIVATE SANITARY SEWER PLANS FOR

CARGILL SANDERS SKIM PIT

WICHITA, KANSAS

RACK DETAIL

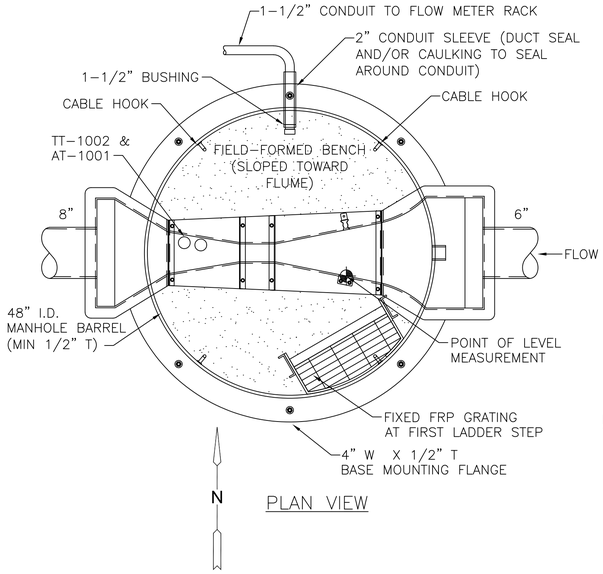
PROJECT NO.	2287 PPS
DATE	JAN, 2017
SCALE	NTS

DESIGNED	DRAWN	CHECKED
WAA	WAA	DAS

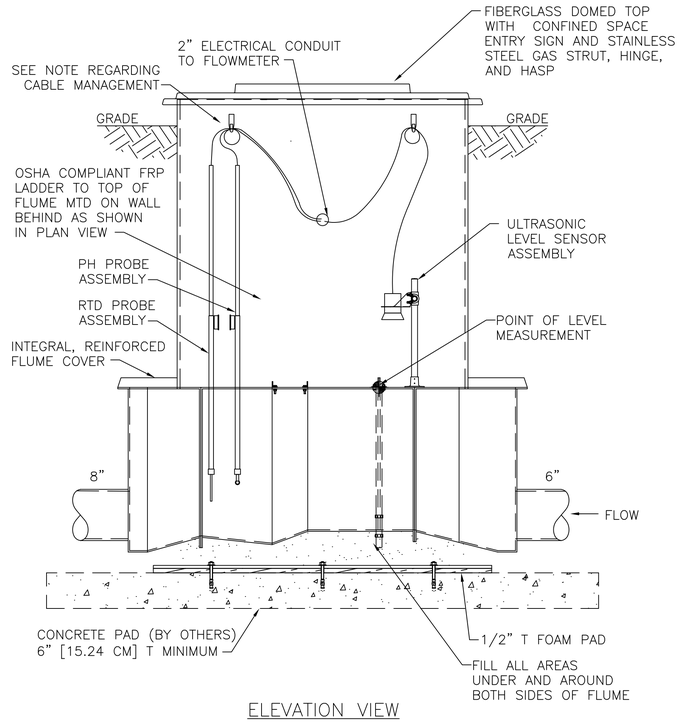
NO.	REVISION	DATE

SHEET NO.

05 OF 07



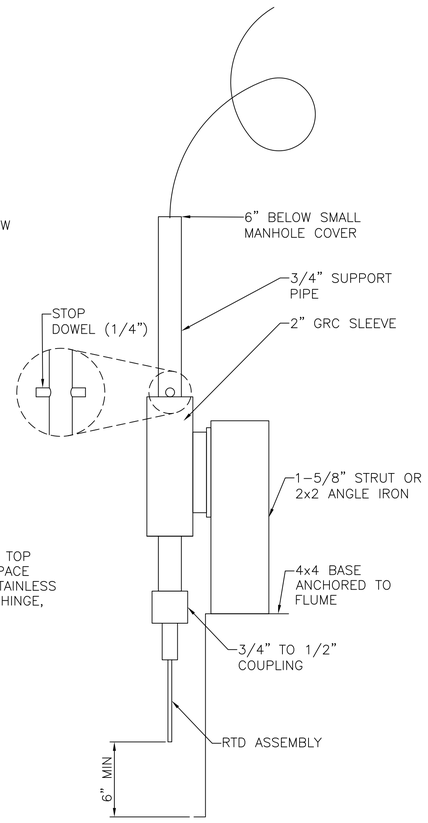
PLAN VIEW



ELEVATION VIEW

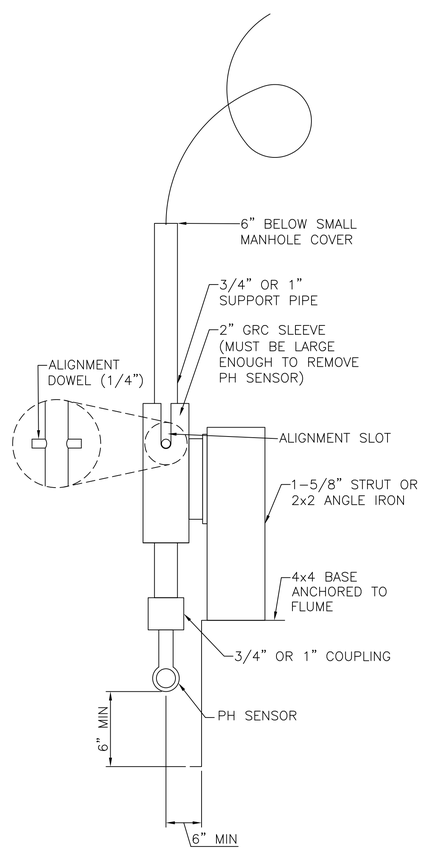
DOMED TOP MANHOLE, 48" DIA., 5" CONCRETE WALL, WITH 3" PARSHALL , 6" & 8" DIA. STUBS, PROBE HOLDER, AND SAMPLER TUBE

1 SCALE: N.T.S.



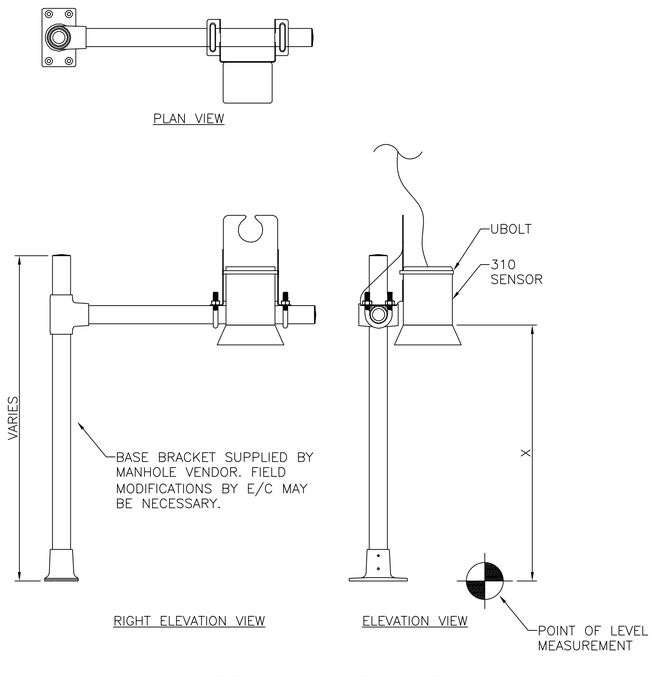
TEMPERATURE SENSOR MOUNTING ASSEMBLY

2 SCALE: N.T.S.



PH SENSOR MOUNTING ASSEMBLY

3 SCALE: N.T.S.



ULTRASONIC SENSOR MOUNTING BRACKET ASSEMBLY

4 SCALE: N.T.S.

NOTES:
1. COIL EXTRA CABLE IN MANHOLE.
2. WRAP CABLES ON WALL MOUNTED HOOKS ADJACENT TO LADDER.
3. SEAL ALL CONDUIT ENTRIES TO PREVENT VAPOR MIGRATION.
4. PH AND TEMP SENSORS SHOULD SAMPLE FROM OUTFLOW STREAM.
5. PH AND TEMP SENSOR SHALL BE REMOVABLE FROM OUTSIDE MANHOLE. EXTEND PIPE STEM AS REQUIRED TO SMALLER MANHOLE ENTRY.
6. ADJUST ALIGNMENT SLOT AND SLEEVE SIZE TO AID IN SENSOR REMOVAL. FOLLOW MANUFACTURER'S REQUIREMENTS FOR SUBMERSION IN STREAM.
7. ULTRASONIC SENSOR MUST BE ALIGNED WITH MEASUREMENT POINT ON FLUME.
8. EXCESS SENSOR CABLES SHALL LOOP BEHIND LADDER.
9. WATER SAMPLES WILL BE GATHERED THROUGH SMALL ENTRY HOLE.

MANHOLE INSTRUMENTATION BOM

ITEM #	QTY.	MFR. PART #	DESC.
1	1	310	TELEDYNE ULTRASONIC LEVEL METER
2	1	FU20	YOKOGAWA PH PROBE
3	1		RTD ASSEMBLY – PLATINUM 100 RTD IN SS SHEATH

MKEC
Wichita, KS • 316-684-9600

PRIVATE SANITARY SEWER PLANS FOR

CARGILL SANDERS SKIM PIT

WICHITA, KANSAS

MANHOLE DETAIL

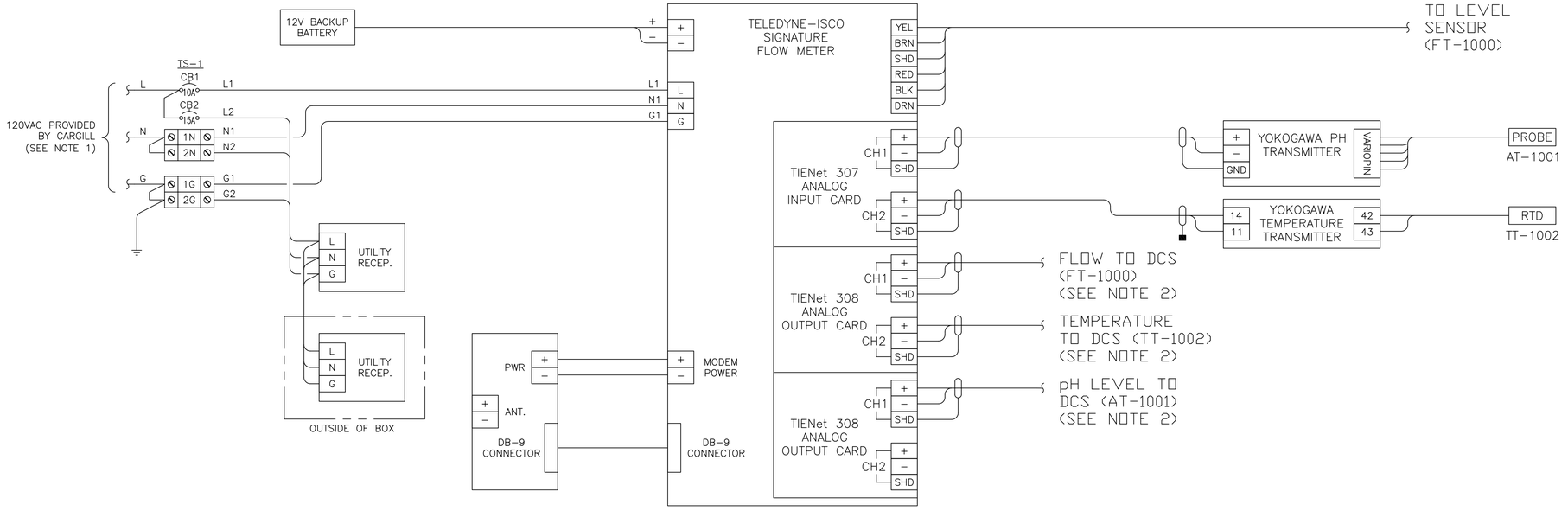
PROJECT NO.	2287 PPS
DATE	JAN, 2017
SCALE	NTS

DESIGNED	DRAWN	CHECKED
DAS	WAA	DAS

NO.	REVISION	DATE

SHEET NO.

06 OF 07



NOTES:
1. ELECTRICAL CONTRACTOR SHALL IDENTIFY POWER PANEL LOCATION AND CIRCUIT NUMBER ON AS–BUILT DRAWINGS.
2. OUTPUT SIGNALS FROM SIGNATURE FLOW METER SHALL BE FIELD ROUTED TO THE PLANT CONTROL SYSTEM.
3. SEE FLOWMETER AND ACCESSORY DOCUMENTATION TO VERIFY WIRING.

MKEC
Wichita, KS • 316-684-9600

PRIVATE SANITARY SEWER PLANS FOR

CARGILL SANDERS SKIM PIT

WICHITA, KANSAS

WIRING DIAGRAM

PROJECT NO.	2287 PPS
DATE	JAN, 2017
SCALE	NTS

DESIGNED	DRAWN	CHECKED
WAA	WAA	DAS

NO.	REVISION	DATE

SHEET NO.

07 OF 07