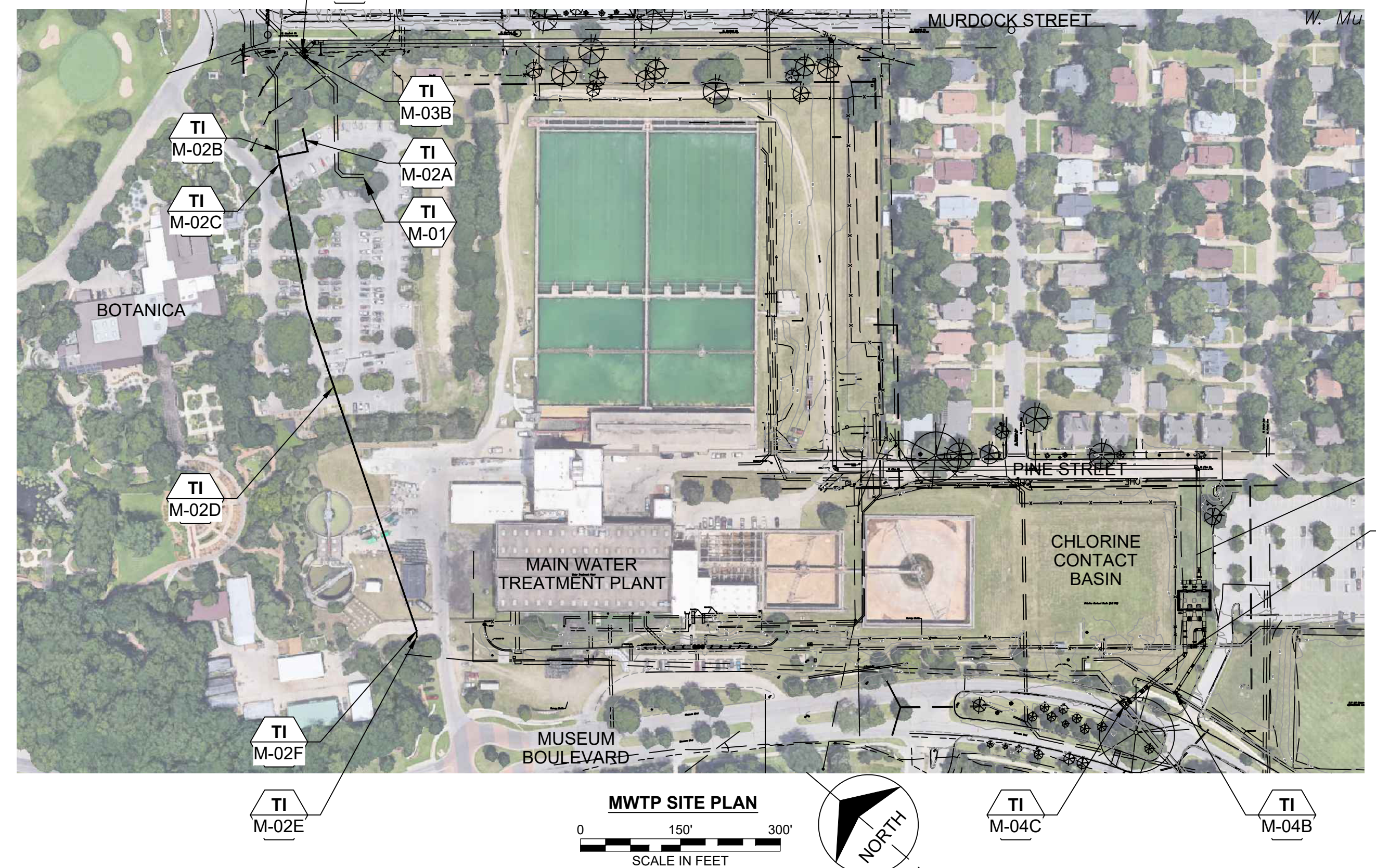


NWTF SITE PLAN
 0 150' 300'
 SCALE IN FEET

NWTF		
TIE-IN ID	C&S ID	DRAWING REFERENCE
N-01	64" EQUUS BEDS TIE IN	060C402
N-02A	66" CHENEY - NEW TAKE OFF TO NWTF	050C401
N-02B	66" CHENEY - NEW IN LINE OFF 60" RAW WTR	050C401
N-03	66" FINISHED WATER CONNECTION	060C406
N-04	66" FINAL CONVERTING TO FINISHED WATER CLEANING AND TESTING	N/A
N-05	42" HIGH SERVICE	050C406
N-06	66" EMERGENCY CONNECTION AT NWTF	050C408
N-07	10" SLUDGE LINE	050C120
N-08	16" SLUDGE LINE	060C412

MWTP		
TIE-IN ID	C&S ID	DRAWING REFERENCE
M-01	EMERGENCY CONNECTION AT MAIN WTP	050C150
M-02A	66"X42" TEE + 42" ISO-VALVE	050C101
M-02B	IN-LINE NEW 42" VALVE	050C101
M-02C	NEW 42" TEE + 42" VALVE	050C101
M-02D	NEW 42" TEE + 42" VALVE	050C101
M-02E	INSTALL NEW 42" TEE AND VALVE	050C101
M-02F	INSTALL NEW 24" VALVE (IN-LINE SERVICE)	050C101
M-03A	HESS BYPASS 66" BF VALVE NEW TAKE-OFF	050C110
M-03B	HESS BYPASS LINE 66" IN-TAKE BF-VALVE	050C110
M-04A	HESS VALVE TIE-INS	050C715
M-04B	HESS VALVE TIE-INS	050C715
M-04C	HESS VALVE TIE-INS	050C715



MWTP SITE PLAN
 0 150' 300'
 SCALE IN FEET

no.	date	by	ckd	description
0	11/12/21	PTG	JLG	PACKAGE 4: ISSUED FOR CONSTRUCTION
1	05/06/22	PTG	JLG	REVISED FOR DCN 30
	05/06/22	PTG	JLG	PACKAGE 4: ISSUED FOR CONSTRUCTION

wichita
 WATER PARTNERS

BURNS MEDONNELL
 9400 WARD PARKWAY
 KANSAS CITY, MO 64114
 816-333-9400
 LICENSE NO. E-65

date	AUGUST 23, 2021	detailed	B.MADDOX
designed	P. GARRETT	checked	J. GARDER

CITY OF WICHITA

SEDGWICK COUNTY, KANSAS

NORTHWEST WATER TREATMENT FACILITY
 NWTF AND MWTP
 OFFSITE WATERLINE
 CONNECTION PLAN

project	114461	contract	
drawing	050G101	rev.	1
sheet	of	sheets	
file	114461_050_G101.dwg		



This Document has been digitally signed and sealed.
 5/6/2022

SLIP LINE NOTES

1. PIPE MATERIAL
 - A. STEEL PIPE IN ACCORDANCE WITH SPECIFICATION 33 11 00.

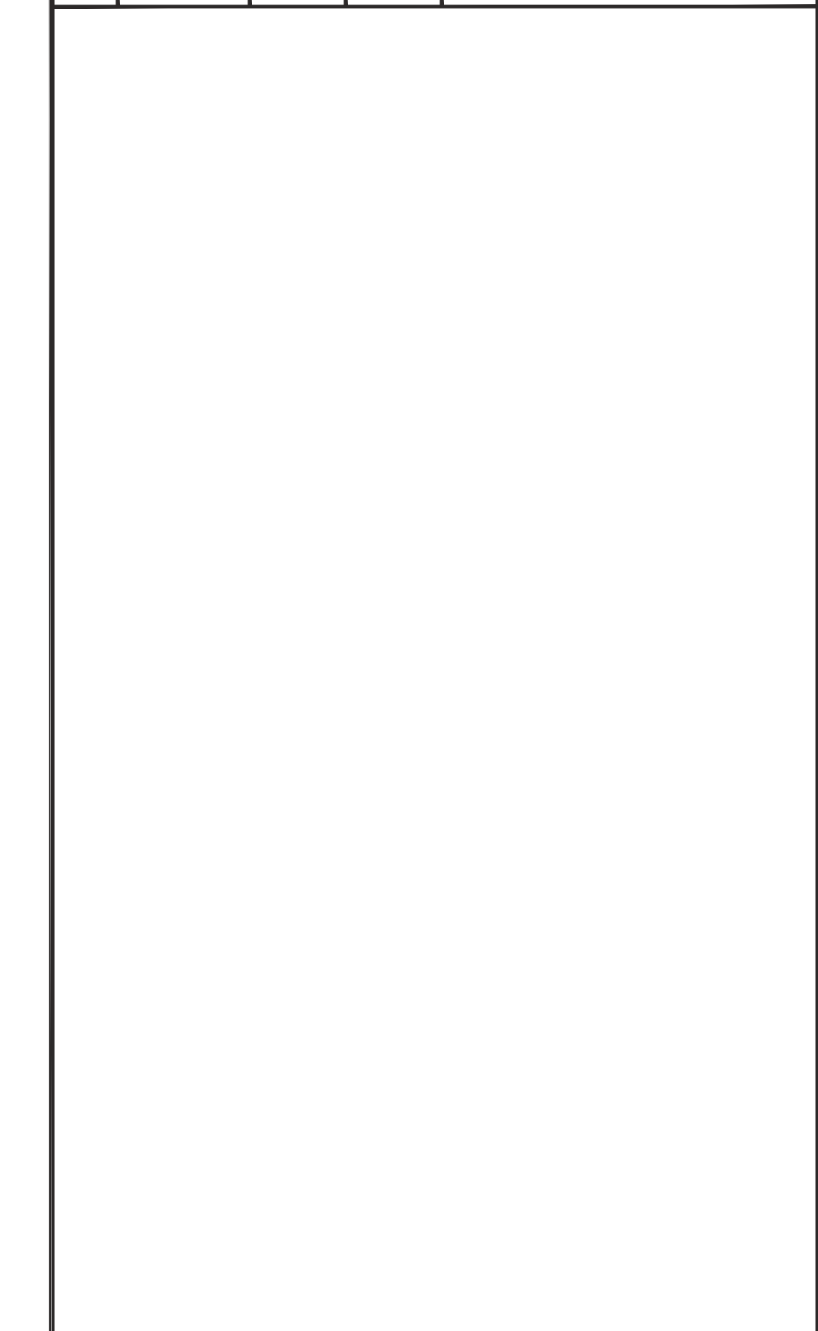
 2. EXCAVATION AND ACCESS PITS
 - A. ALL EXCAVATION IN ACCORDANCE WITH SPECIFICATION 31 20 50.

 3. PIPE CLEANING & TV INSPECTION
 - A. HOST PIPE SHALL BE CLEANED IN ACCORDANCE WITH AWWA M28.
 - B. ALL PIPELINES SHALL BE CLEANED WITH AS MANY PASSES AS NECESSARY TO CREATE A UNIFORM INTERIOR HOST PIPE SURFACE FREE OF ALL LOOSE MATERIAL AND SHARP EDGES. ANY POTENTIALLY DELETERIOUS AREAS OF THE HOST PIPE SHOULD BE REMOVED OR SECURED IN PLACE, PRIOR TO THE INSERTION OF THE NEW PIPE.
 - C. THE HOST PIPE SHALL BE INSPECTED BY TV AFTER AND DURING THE CLEANING PROCESS AS NECESSARY TO DETERMINE THE CONDITION OF HOST PIPE AND SUITABILITY OF HOST PIPE FOR NEW PIPE INSERTION. VERIFY ANY DEFORMATION AND EXISTING OFFSETS WILL NOT ALLOW FOR STEEL PIPE INSERTION.
 - D. OBSTRUCTIONS SUCH AS CORPORATION TAPS, VALVES AND VALVE BODIES, AND COLLAPSED PIPING SHALL BE REMEDIATED PRIOR TO INSERTION. POINT REPAIRS SHALL BE MADE IN ACCORDANCE WITH THE DRAWINGS AND THESE SPECIFICATIONS.

 4. STEEL PIPE INSERTION/INSTALLATION
 - A. STEEL PIPE INSTALLATION IN ACCORDANCE WITH 333150.
 - B. AS THE STEEL PIPE IS INSERTED INTO THE CASING PIPE, THE RAMMING/PULLING PRESSURE SHOULD IN GENERAL INCREASE STEADILY. IF THERE IS A DRAMATIC STEP INCREASE IN THE RAMMING/PULLING PRESSURE, THE PIPE INSERTION SHOULD BE STOPPED, AND THE LEADING END OF THE PIPE INSPECTED. THE PIPE SHOULD NOT BE INSERTED AT A RAMMING/PULLING PRESSURE THAT WILL CAUSE DEFLECTION OF THE STEEL PIPE OR DAMAGE TO THE CEMENT LINER OF THE STEEL PIPE.

 5. ANNULAR SPACE GROUTING
 - A. GROUTING MATERIAL
 - a. GROUT
 - THE GROUT MIX SHALL BE DESIGNED BY THE DESIGN-BUILDER TO ACHIEVE THE MATERIAL PROPERTIES SPECIFIED AND TO BE COMPATIBLE WITH THE DESIGN-BUILDER'S GROUTING EQUIPMENT.
 - THE GROUT SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 2,000 PSI.
 - THE DESIGN-BUILDER SHALL ADJUST THE SAND-CEMENT RATIO OF THE GROUT AS NECESSARY TO GROUT EFFECTIVELY AND TO FILL ALL VOIDS BETWEEN THE STEEL LINER AND THE EXISTING CAST IRON CASING PIPE. HOWEVER, AT ALL TIMES THE GROUT SHALL HAVE A SAND-CEMENT RATIO OF BETWEEN 1:1 AND 2:1 BY VOLUME, AND A BENTONITE CONTENT OF NO MORE THAN TWO PERCENT. NO SPACE SHALL BE GROUTED USING A SAND-CEMENT RATIO BELOW 1:1 BY VOLUME, UNLESS APPROVED OTHERWISE BY THE ENGINEER. HIGH SAND MIXES MAY BE USED, PROVIDED THE GROUT IS DEMONSTRATED TO HAVE SUITABLE ALKALINITY AND FLOW CHARACTERISTICS.
 - DESIGN-BUILDER SHALL CONTROL WATER:CEMENT RATIO FOR EFFECTIVE MACHINE OPERATION AND ADHESION OF THE MORTAR TO THE CASING AND LINER PIPES.
 - THE GROUT SHALL SHOW NO SHRINKAGE WHEN TESTED UNDER ASTM C827.
 - SAND SHALL CONFORM TO ASTM C33.
 - CEMENT SHALL CONFORM TO ASTM C150 TYPE II, WITH LESS THAN ONE PERCENT RETAINED ON THE NO. 200 SIEVE.
 - FLY ASH OR OTHER POZZOLANIC MATERIALS SHALL CONFORM TO ASTM C618, CLASS F. THE AMOUNT OF POZZOLANIC MATERIAL IN THE COMBINED POZZOLANIC/CEMENT MIXTURE SHALL NOT EXCEED 17 PERCENT BY WEIGHT OF TOTAL CEMENTITIOUS MATERIAL.
 - WATER SHALL BE FREE OF ORGANIC MATERIALS AND OTHER IMPURITIES THAT MAY REDUCE THE STRENGTH, DURABILITY OR OTHER QUALITY OF THE CEMENT MORTAR.
 - FLUIDIFIER SHALL CONFORM TO ASTM C937 AND SHALL BE INTERPLAST-N, MANUFACTURED BY SIKA CHEMICAL CORPORATION, LYNHURST, NEW JERSEY, OR APPROVED EQUAL. THE FLUIDIFIER SHALL CONTAIN A SHRINKAGE COMPENSATOR.
 - BENTONITE SHALL BE PULVERIZED OR POWDERED PREMIUM GRADE NATURAL SODIUM CATION BENTONITE, CONFORMING TO THE REQUIREMENTS OF API RECOMMENDED PRACTICE 13A, WITH A MINIMUM YIELD OF 90 BARRELS PER TON.
 - ADMIXTURES MAY BE USED, SUBJECT TO THE ACCEPTANCE OF THE ENGINEER, TO IMPROVE PUMPABILITY, CONTROL TIME OF SET, TO HOLD AGGREGATE IN SUSPENSION, AND TO PREVENT SEGREGATION AND BLEEDING. USE ADMIXTURES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. DO NOT USE ADMIXTURES THAT PROMOTE STEEL CORROSION. ADMIXTURE CONTENT, BATCHING METHOD, AND TIME OF INTRODUCTION TO THE MIX SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR MINIMUM SHRINKAGE AND FOR COMPLIANCE WITH THESE SPECIFICATIONS.
 - B. GROUTING EXECUTION
 - a. FOLLOWING INSERTION OF THE LINER PIPE INTO THE CASING PIPE, COMPLETELY FILL THE ANNULAR SPACE BETWEEN THE LINER AND CASING PIPES WITH GROUT IN ACCORDANCE WITH THE FOLLOWING:
 - THE LIMITS OF EACH GROUT PLACEMENT OPERATION SHALL BE ACCEPTABLE TO THE ENGINEER.
 - THE METHODS USED IN PLACING THE GROUT SHALL BE SUCH AS TO ENSURE THE COMPLETE FILLING OF THE ANNULAR SPACE BETWEEN THE LINER AND CASING PIPES. GROUT SHALL BE OF PROPER CONSISTENCY AND SHALL BE ADEQUATELY CONSOLIDATED TO FILL ALL VOIDS, PROVIDE PROPER STRUCTURAL SUPPORT, IMPERVIOUS TO WATER, AND HAVE A HIGH pH TO PROVIDE CORROSION PROTECTION IN THE CASE OF STEEL LINER PIPE.
 - GROUT SHALL BE EMPLACED IN A MANNER WHICH PREVENTS PIPE FLOTATION, MOVEMENT, BUCKLING, DEFLECTION, COLLAPSE OR ANY OTHER DAMAGE TO THE LINER PIPE.
 - b. PRIOR TO COMMENCING GROUTING OPERATIONS, INSPECT ALL GROUT HOLES TO VERIFY THAT THEY ARE OPEN AND WILL PERMIT FREE FLOW OF GROUT AS REQUIRED. VALVES OR OTHER SUITABLE DEVICES SHALL BE ATTACHED AND PLACED IN THE FULLY OPEN POSITION ON ALL UNGROUTED HOLES.
 - c. COMMENCE PRESSURE GROUTING OF THE ANNULAR SPACE ONLY AFTER ALL LINER PIPE JOINTS ARE ASSEMBLED, AND PIPELINE CLEANING OPERATIONS ARE COMPLETED.
 - d. FILL ALL VOIDS BETWEEN THE LINER AND THE EXISTING CAST IRON CASING PIPE. DO NOT PLACE NEW LIFTS OF GROUT ON TOP OF PREVIOUS LIFTS UNTIL THEY HAVE ACHIEVED SUFFICIENT STRENGTH TO WITHSTAND THE FORCE EXERTED BY THE NEW LIFT.
 - e. PROVIDE GROUTING EQUIPMENT FOR CONTINUOUS CIRCULATION OF GROUT IN THE SYSTEM AND ACCURATE PRESSURE CONTROL. KEEP EQUIPMENT AND HOSES CLEAN BY CONSTANT CIRCULATION OF GROUT AND BY PERIODIC FLUSHING WITH WATER.
 - f. PROVIDE EQUIPMENT AND CONDUCT GROUTING PROCEDURES SUCH THAT GROUTING PRESSURES WILL NOT CAUSE ANY DISTORTION OF THE LINER PIPE. USE STOP VALVES AT THE COLLAR OF EACH HOLE TO MAINTAIN PRESSURE AS REQUIRED UNTIL GROUT HAS SET.
 - g. MAINTAIN GROUTING EQUIPMENT IN SATISFACTORY OPERATING CONDITION TO ENABLE CONTINUOUS AND EFFICIENT GROUTING OPERATIONS.
 - C. MIXING AND INJECTION OF GROUT
 - a. IN GENERAL, GROUTING LIFTS WILL BE CONSIDERED COMPLETED WHEN THE PRESSURE AT THE GROUT INJECTION NOZZLE HAS REACHED THE MAXIMUM SPECIFIED PRESSURE. AFTER THE GROUTING LIFT AT ANY GROUT PIPE IS FINISHED, MAINTAIN THE PRESSURE BY MEANS OF A STOPCOCK OR OTHER SUITABLE DEVICE UNTIL THE GROUT HAS SET. FILL ANY VOIDS LEFT AFTER REMOVING THE GROUT PIPE AT THE COMPLETION OF GROUTING. SEAL WELD THE PLUGS AFTER TESTING FOR VOIDS IS COMPLETE.
 - b. USE A MAXIMUM GROUTING PRESSURE OF 9 POUNDS PER SQUARE INCH (PSI) AT THE GROUT HOLE COLLAR CONNECTION, UNLESS IT CAN BE DEMONSTRATED THAT NO BUCKLING, DISTORTION, DISPLACEMENT, EXCESSIVE DEFLECTION, OR DAMAGE TO THE LINER OCCURS AT A HIGHER PRESSURE.
-
6. CLEANUP AND RESTORATION
 - A. TAKE NECESSARY PRECAUTIONS TO PROTECT AND PRESERVE THE LINER PIPE AND THE CAST IRON CASING PIPE FROM DAMAGE. ANY DAMAGE TO THE LINER PIPE, THE CAST IRON CASING, OR OTHER APPURTENANCES CAUSED BY OR OCCURRING DURING GROUTING OPERATIONS SHALL BE REPAIRED. THE LINER PIPE SHALL BE MAINTAINED ROUND AND FREE FROM DEFECTS.
 - B. DURING GROUTING WORK, PROVIDE FOR ADEQUATE DISPOSAL OF WASTE AND WASTEWATER. MINIMIZE GROUT AND MORTAR SPILLS, AND CLEAN-UP IMMEDIATELY AFTER THE GROUTING SHIFT IS COMPLETE. REMOVE WASTE GROUT CAUSED BY GROUTING OPERATIONS.
-
7. CASING SPACERS
 - A. THE CASING SPACERS SHALL BE OF SUFFICIENT HEIGHT TO PROTECT THE EXTERIOR COATING OF THE STEEL LINER PIPE DURING THE INSERTION PROCESS.
 - B. CASING SPACERS SHALL BE ATTACHED TO THE STEEL LINER PIPE SO AS TO SUPPORT THE STEEL PIPE DURING INSERTION INTO THE CAST IRON CASING PIPE, AND TO ALLOW THE STEEL PIPE TO BE COMPLETELY ENCAPSULATED DURING THE GROUTING PROCEDURE. THE CASING SPACERS SHALL HAVE A CONSTRUCTION SUITABLE FOR THE SIZE AND WEIGHT OF THE STEEL LINER PIPE. THE CASING SPACERS SHALL PROVIDE FOR ELECTRICAL ISOLATION OF THE STEEL LINER PIPE, THE CASING SPACER, AND THE CAST IRON CASING PIPE.
 - C. AT LEAST THREE METALLIC CASING SPACERS CONSTRUCTED OF STAINLESS STEEL OR STEEL COATED WITH PROTECTIVE COATING SHALL BE ATTACHED TO EACH 45-50 FOOT LONG STEEL PIPE SEGMENT THAT IS INSERTED INTO THE CAST IRON CASING, AT BOTH ENDS AND IN THE MIDDLE, IN ORDER TO PROPERLY SUPPORT THE STEEL LINER PIPE DURING INSERTION.
 - D. FOR NOMINAL STEEL PIPE LAYING LENGTHS OF 20-25 FEET, AT LEAST TWO (2) METALLIC CASING SPACERS SHALL BE ATTACHED AT EACH END OF THE PIPE SEGMENTS.
 - E. METALLIC CASING SPACER MATERIAL SPECIFICATIONS INCLUDE:
 - BAND - MINIMUM 14 GAUGE MILD STEEL OR 304 STAINLESS STEEL; 12 INCHES WIDE.
 - LINER - POLYVINYL CHLORIDE, 0.090" THICK, 85-90 DURAMETER.
 - RUNNERS - THE RUNNERS SHALL BE 2-INCHES WIDE AND CONSTRUCTED OF FIBERGLASS REINFORCED PLASTIC OR APPROVED EQUAL HAVING A HIGH COMPRESSION STRENGTH OF 18,000 PSI (ASTM D695), A LOW COEFFICIENT OF FRICTION OF <0.13 (D-1894), HIGH RESISTANCE TO SLIDING WEAR, TOUGHNESS UNDER IMPACT, AND DIELECTRIC INSULATION. EACH METALLIC SPACER SHALL HAVE AT LEAST 3 RUNNERS ON THE BOTTOM SIDE OF THE LINER PIPE AND 2 RUNNERS ON THE TOP SIDE OF THE LINER PIPE. THE RUNNERS SHALL BE MECHANICALLY ATTACHED DIRECTLY TO THE BAND.
-
8. TESTING
 - A. ALL TESTING IN ACCORDANCE TO SPECIFICATION 33 11 00

no.	date	by	ckd	description
0	11/12/21	KDA	BLW	PACKAGE 4: ISSUED FOR CONSTRUCTION





wichita
WATER PARTNERS



MEC

Wichita, KS • 316.684.9600
LICENSE NO. E-249

date	APR. 09, 2021	detailed	J. CODY
designed	K. AYOTTE	checked	B. WINTER



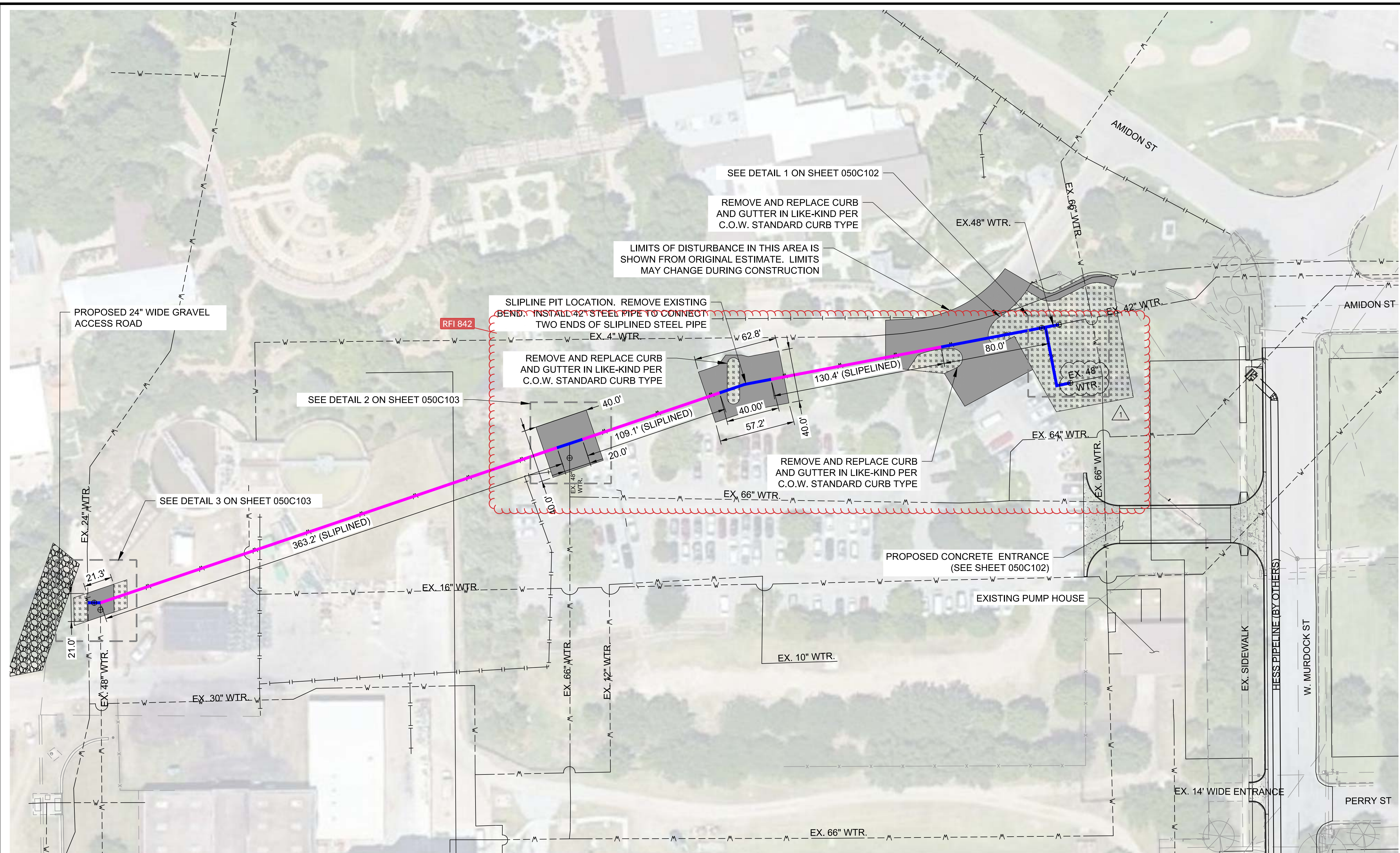
CITY OF WICHITA

SEDGWICK COUNTY, KANSAS

NORTHWEST WATER TREATMENT FACILITY	
OFF-SITE PIPING 48" SLIP LINING GENERAL NOTES	
project	contract
114461	
drawing	rev.
050C100	0
sheet	of sheets
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no.	date	by	ckd	description
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1	4/15/22	KDA		REVISED PER DCN 18
	4/15/22	KDA	BLW	PACKAGE 4: ISSUED FOR CONSTRUCTION

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MKEC
Wichita, KS • 316.684.9600
LICENSE NO. E-249

date	JAN. 14, 2021	detailed	J. CODY
designed	K. AYOTTE	checked	B. WINTER

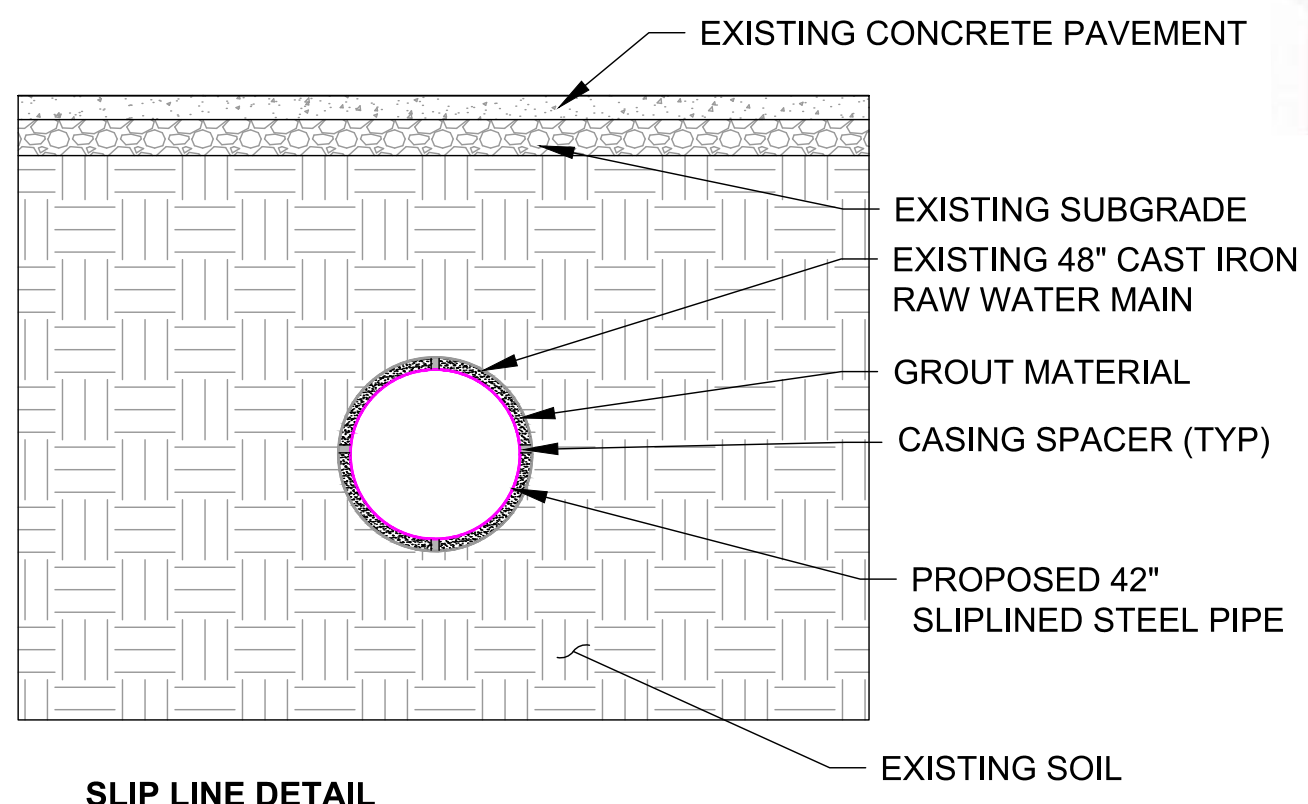
CITY OF WICHITA
SEDGWICK COUNTY, KANSAS

NORTHWEST WATER TREATMENT FACILITY
OFF-SITE PIPING
48" SLIP LINING
SITE PLAN

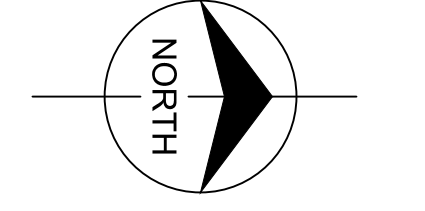
project 114461 | contract

drawing **050C101 - 1** rev.

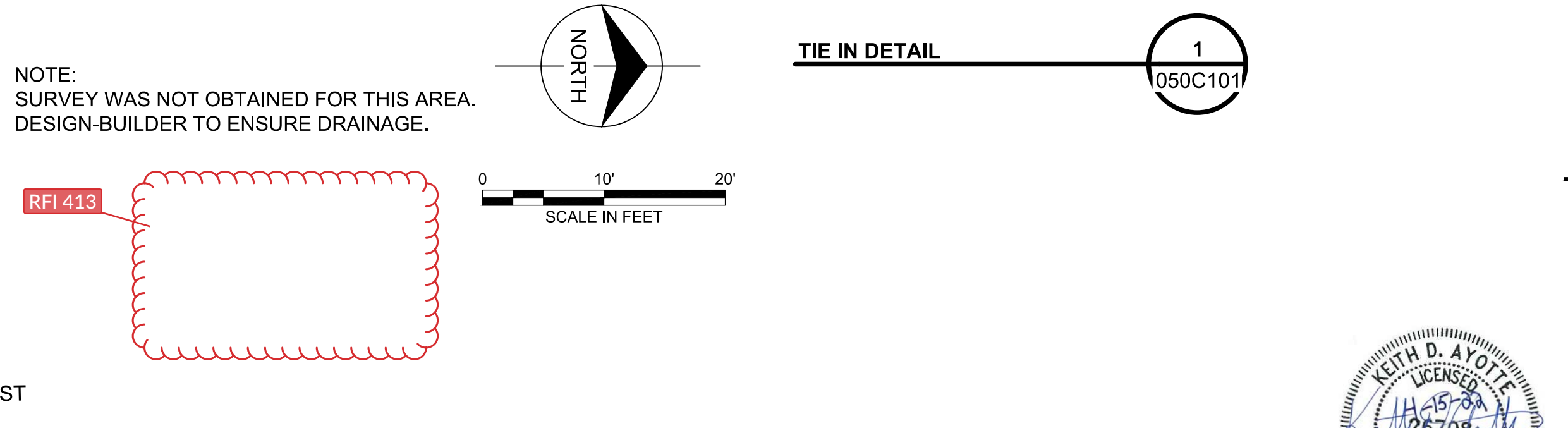
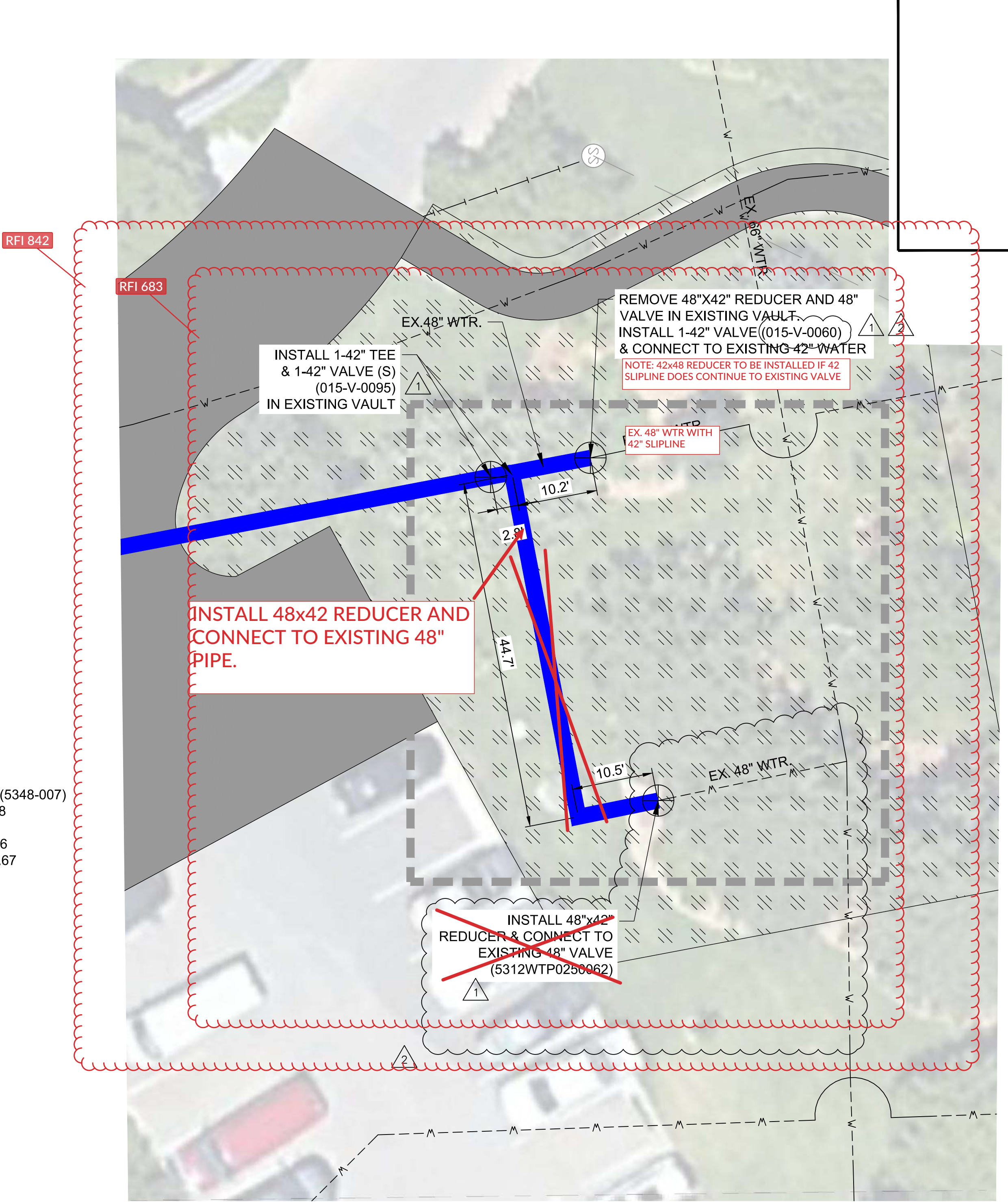
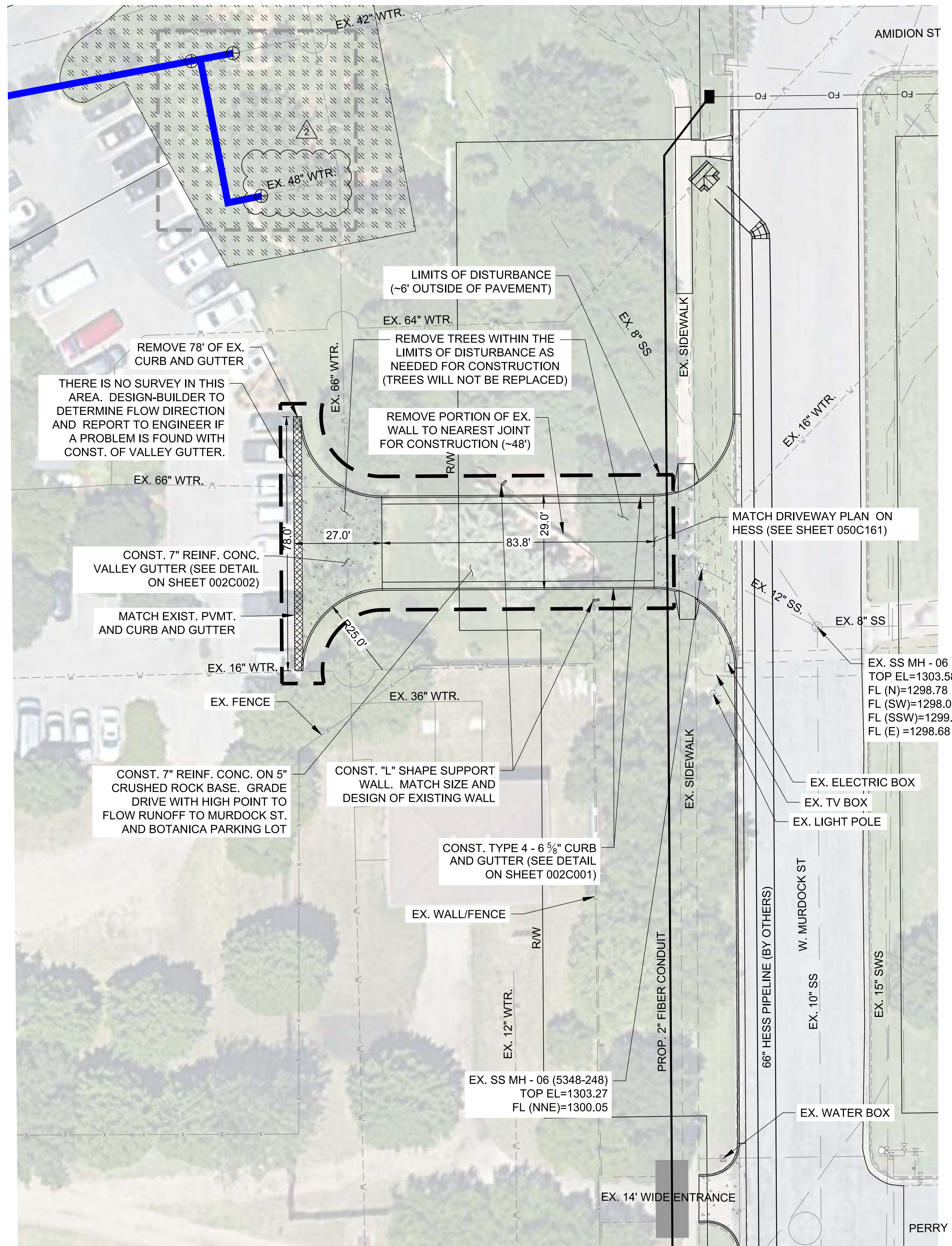
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NOTE:
SURVEY WAS NOT OBTAINED FOR THIS AREA.
DESIGN-BUILDER TO ENSURE DRAINAGE.



- LEGEND (TYP. ALL SHEETS)**
- PROPOSED 42" I.D. STEEL PIPE SLIP LINED THROUGH EXISTING 48" I.D. PIPE (SEE DETAIL 1 ON THIS SHEET)
 - PROPOSED OPEN CUT 42" I.D. STEEL PIPE (REMOVE EXISTING 48" I.D. PIPE)
 - W — EXISTING WATER PIPE FROM GIS
 - - - - - EXISTING SANITARY PIPE FROM GIS
 - - - - - EXISTING STORM PIPE FROM GIS
 - REMOVE AND REPLACE CONCRETE/ASPHALT PAVEMENT
 - ▨ LANDSCAPING - RESTORE TO ORIGINAL CONDITIONS. COORDINATE WITH BOTANICA FOR DEMOLITION AND RESTORATION.



no.	date	by	ckd	description
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	1/18/22	KDA	BLW	PACKAGE 4: ISSUED FOR CONSTRUCTION
2	4/14/22	KDA		REVISED PER DCN 18
	4/15/22	KDA	BLW	PACKAGE 4: ISSUED FOR CONSTRUCTION

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WATER PARTNERS

MKEC
Wichita, KS • 316.684.9600
LICENSE NO. E-249

date	APR, 02, 2021	detailed	J. CODY
designed	K. AYOTTE	checked	B. WINTER

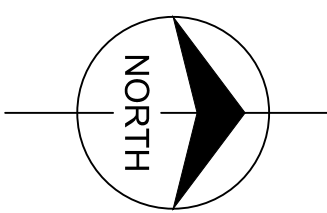
CITY OF WICHITA

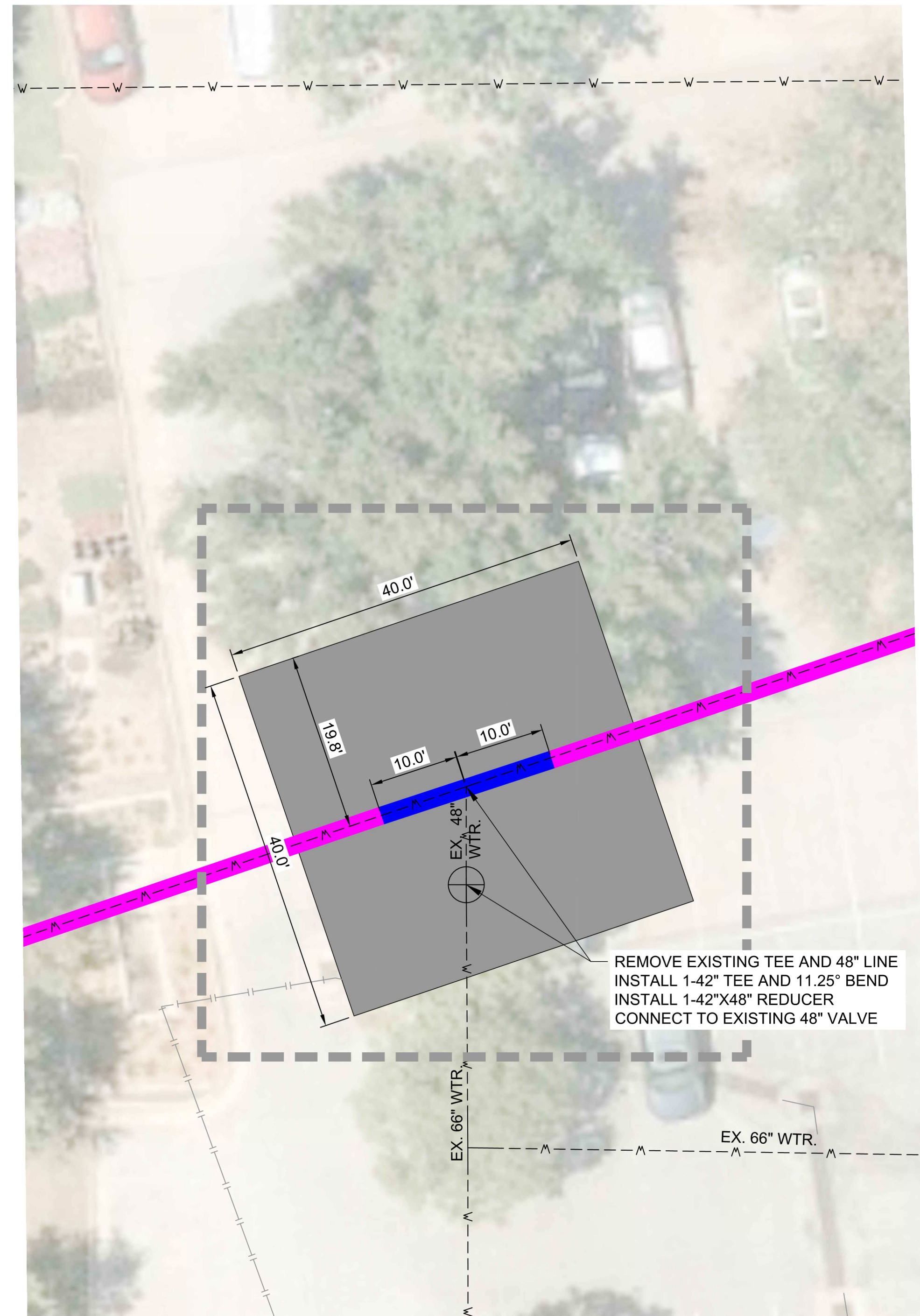
SEDGWICK COUNTY, KANSAS

NORTHWEST WATER TREATMENT FACILITY	
OFF-SITE PIPING	
48" SLIP LINING	
DRIVEWAY PLAN & WATER TIE-IN DETAIL	
project	contract
114461	
drawing	rev.
050C102	2
sheet	of sheets
114461_050_C102.dwg	

NEW DRIVE DETAIL 2 050C102

0 20' 40'
SCALE IN FEET

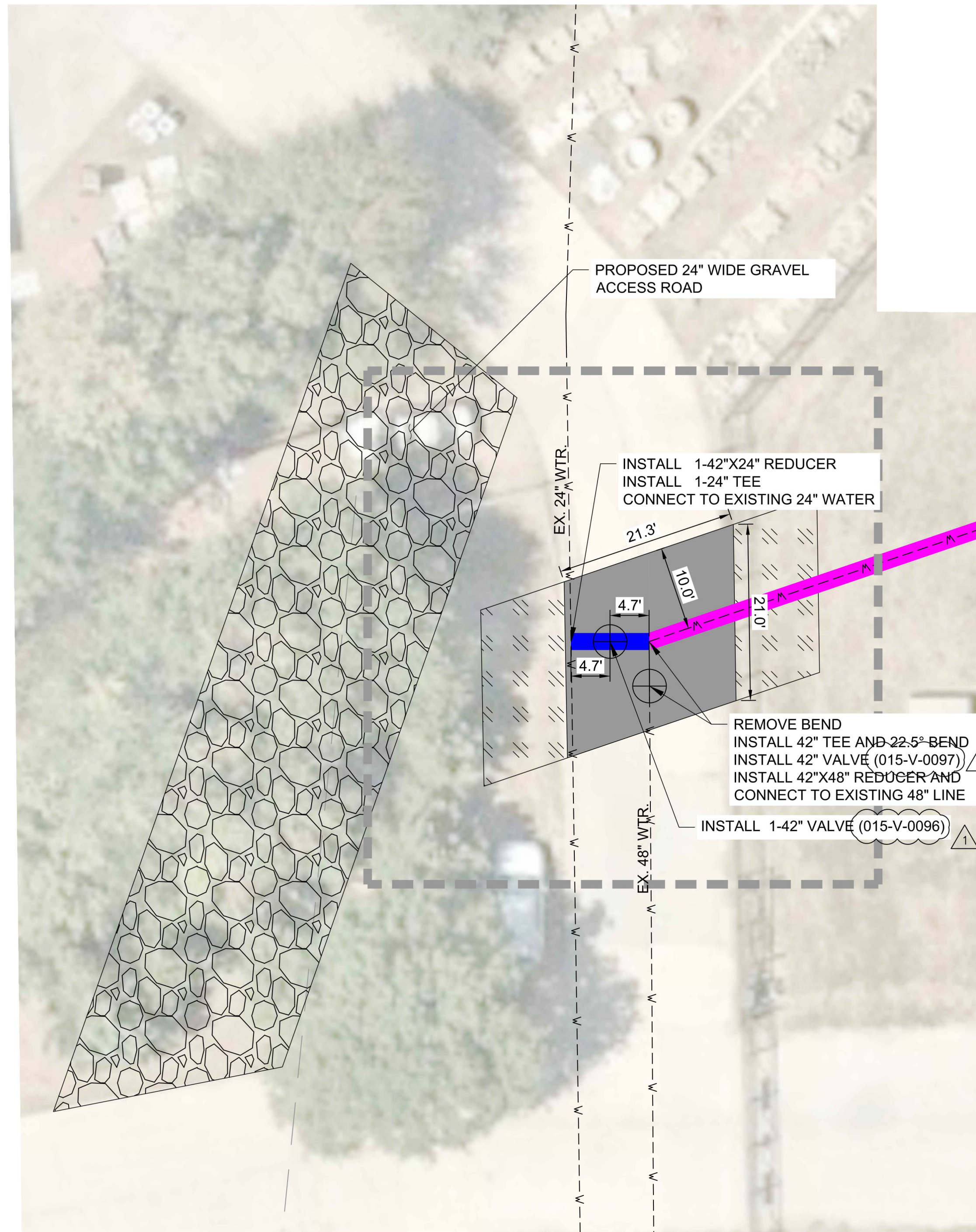
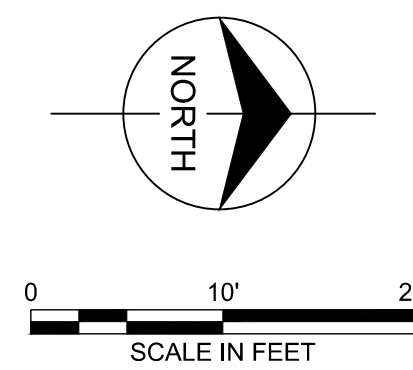




WATER TIE-IN DETAIL

2
050C101

NOTE:
SURVEY WAS NOT OBTAINED FOR THIS AREA.
DESIGN-BUILDER TO ENSURE DRAINAGE.

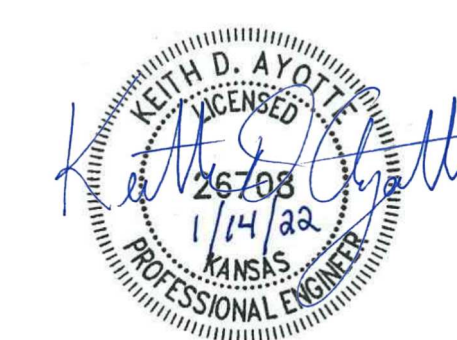


WATER TIE-IN DETAIL

3
050C101

LEGEND (TYP. ALL SHEETS)

- PROPOSED 42" I.D. SLIP LINED STEEL PIPE THROUGH EXISTING 48" I.D. PIPE (SEE DETAIL 1 ON THIS SHEET)
- PROPOSED OPEN CUT 42" I.D. STEEL PIPE IN PLACE OF EXISTING 48" PIPE (REMOVE EXISTING 48" I.D. PIPE)
- EXISTING WATER PIPE FROM GIS
- EXISTING SANITARY PIPE FROM GIS
- EXISTING STORM PIPE FROM GIS
- REMOVE AND REPLACE CONCRETE/ASPHALT PAVEMENT
- LANDSCAPING - RESTORE TO ORIGINAL CONDITIONS. COORDINATE WITH BOTANICA FOR DEMOLITION AND RESTORATION.



no.	date	by	ckd	description
0	11/12/21	KDA	BLW	PACKAGE 4: ISSUED FOR CONSTRUCTION
1	1/14/22	KDA		ADDED VALVE NUMBERS
	1/18/22	KDA	BLW	PACKAGE 4: ISSUED FOR CONSTRUCTION

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WATER PARTNERS

MKEC
Wichita, KS • 316.684.9600
LICENSE NO. E-249

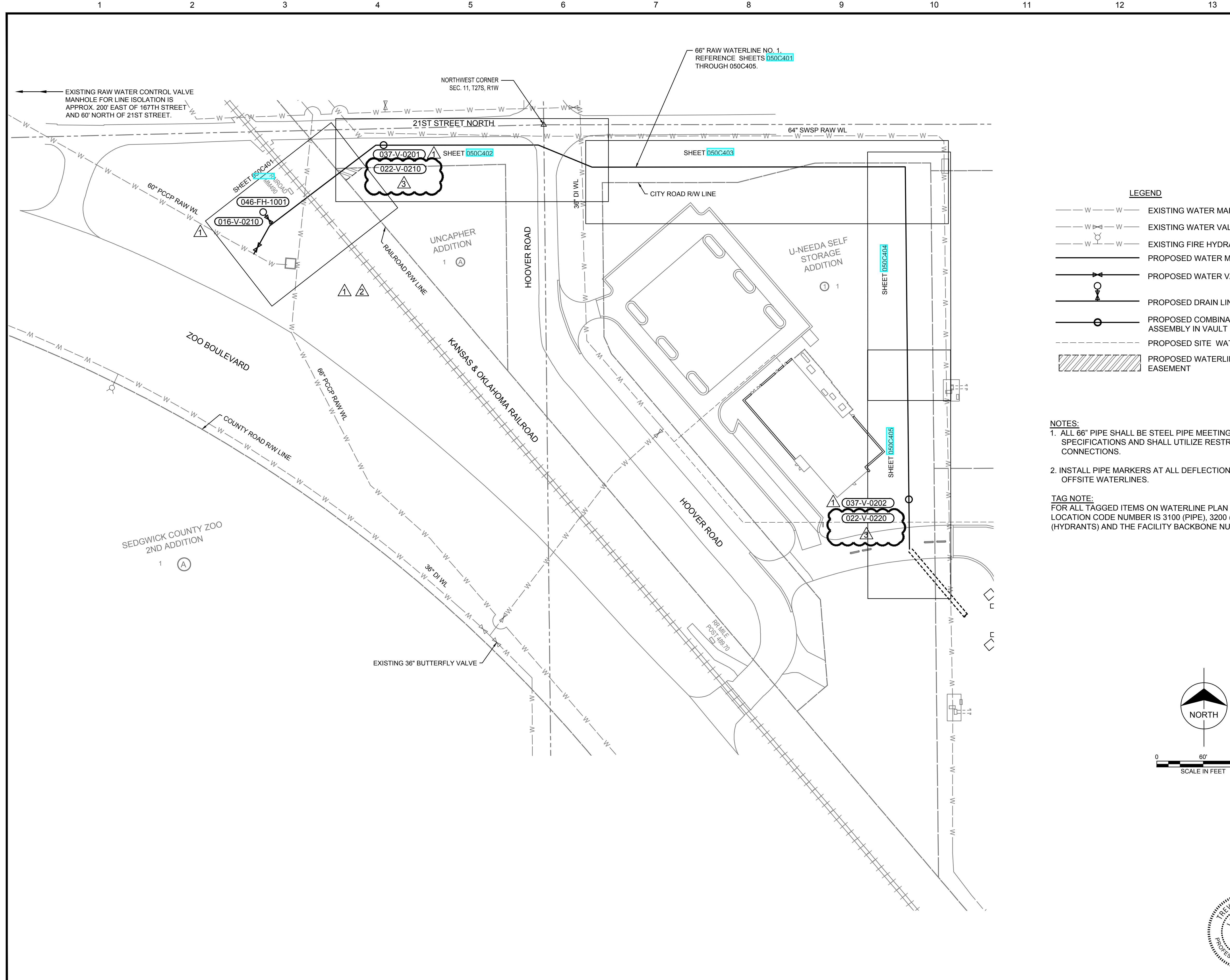
date APR. 14, 2021	detailed J. CODY
designed K. AYOTTE	checked B. WINTER

CITY OF WICHITA

SEDGWICK COUNTY, KANSAS

NORTHWEST WATER TREATMENT FACILITY
OFF-SITE PIPING
48" SLIP LINING
WATER TIE-IN DETAILS

project 114461	contract
drawing 050C103	rev. 1
sheet	of sheets
file 114461_050_C103.dwg	



LEGEND

	EXISTING WATER MAIN
	EXISTING WATER VALVE
	EXISTING FIRE HYDRANT
	PROPOSED WATER MAIN
	PROPOSED WATER VALVE
	PROPOSED DRAIN LINE
	PROPOSED COMBINATION AIR VALVE ASSEMBLY IN VAULT
	PROPOSED SITE WATER
	PROPOSED WATERLINE EASEMENT

NOTES:

- ALL 66" PIPE SHALL BE STEEL PIPE MEETING THE PROJECT SPECIFICATIONS AND SHALL UTILIZE RESTRAINED WELDED CONNECTIONS.
- INSTALL PIPE MARKERS AT ALL DEFLECTIONS ALONG THE OFFSITE WATERLINES.

TAG NOTE:
FOR ALL TAGGED ITEMS ON WATERLINE PLAN SHEETS, THE LOCATION CODE NUMBER IS 3100 (PIPE), 3200 (VALVE), OR 3600 (HYDRANTS) AND THE FACILITY BACKBONE NUMBER IS NWW.

no.	date	by	ckd	description
0	11/12/21	CSL	TBK	PACKAGE 4: ISSUED FOR CONSTRUCTION
1	4/15/22	CSL	TBK	REVISED PER DCN 18
	4/15/22	CSL	TBK	PACKAGE 4: ISSUED FOR CONSTRUCTION
2	5/6/22	CSL	TBK	REVISED PER DCN 30
	5/6/22	CSL	TBK	PACKAGE 4: ISSUED FOR CONSTRUCTION
3	6/17/22	CSL	TBK	REVISED PER DCN 18
	6/17/22	CSL	TBK	PACKAGE 4: ISSUED FOR CONSTRUCTION

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WATER PARTNERS

PEC

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
303 SOUTH TOPEKA WICHITA, KS 67202
316-262-2691 www.pec1.com
LICENSE NO. E-310

date APRIL 6, 2020	detailed C. LINK
designed T. KAUFMAN	checked R. GLESSNER

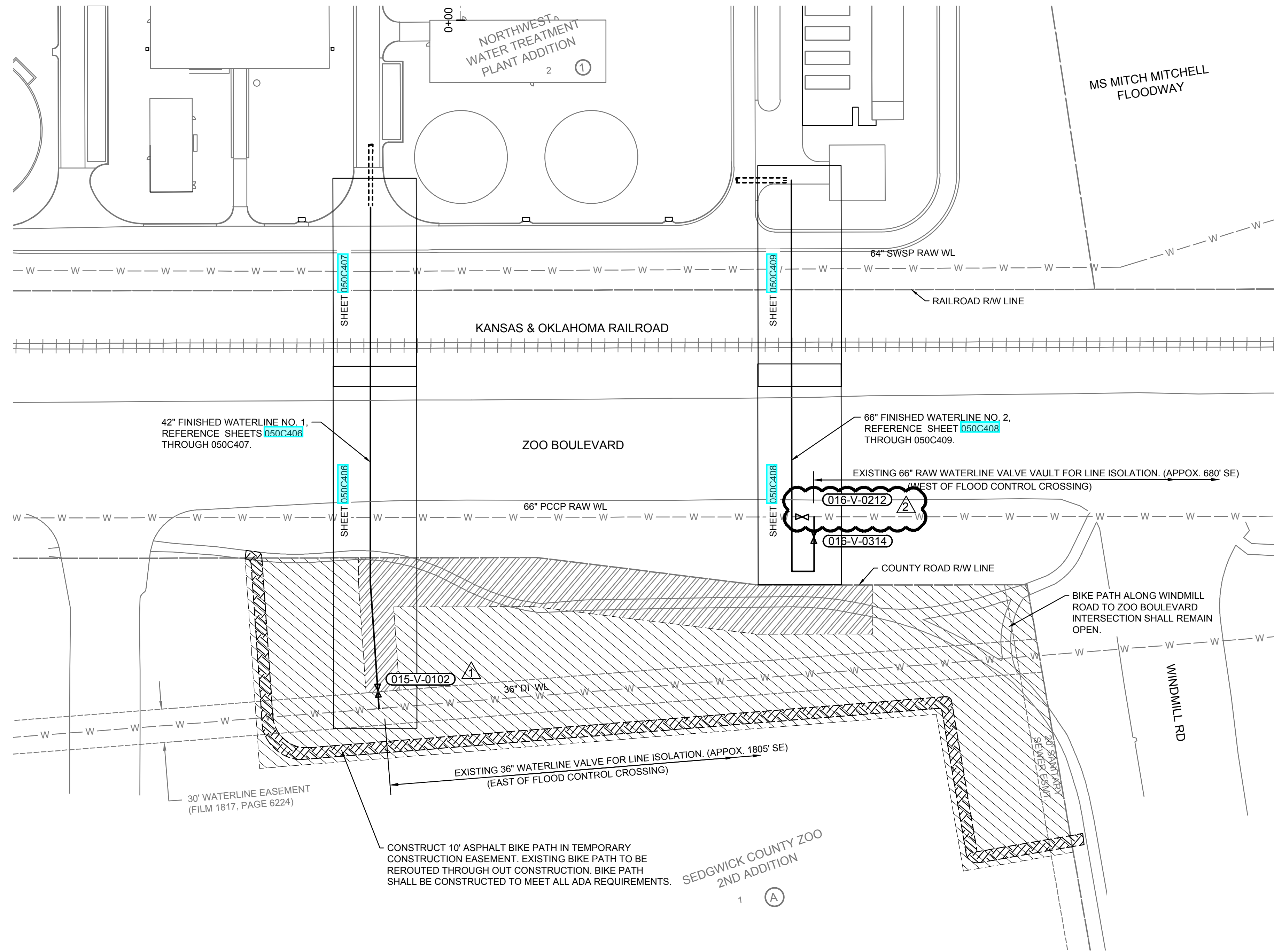


SEDGWICK COUNTY, KANSAS

**NORTHWEST WATER TREATMENT FACILITY
SITE - CIVIL
RAW WATERLINE PLAN**

project 114461	contract
drawing 050C104	rev. 3
sheet	of sheets
file 171350-009-050C104.dwg	



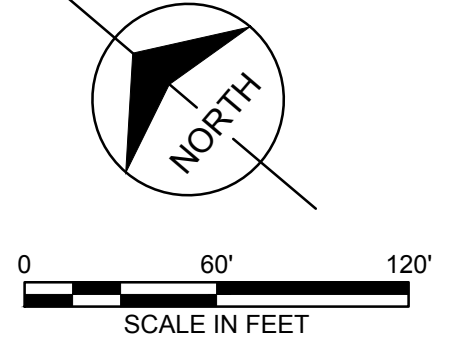


LEGEND

- W — W — EXISTING WATER MAIN
- W X — W — EXISTING WATER VALVE
- W — W — PROPOSED WATER VALVE
- --- PROPOSED SITE WATER
- [Hatched Box] PROPOSED UTILITY EASEMENT
- [Diagonal Hatched Box] PROPOSED TEMPORARY CONSTRUCTION EASEMENT
- [Cross-hatched Box] TEMPORARY BIKE PATH ROUTE

NOTES:
 1. ALL 42" PIPE SHALL BE DUCTILE IRON MEETING THE PROJECT SPECIFICATIONS. MECHANICAL JOINT RESTRAINTS SHALL ONLY BE LOCATED AT FITTINGS OR APPURTENANCES. ALL PIPE JOINTS SHALL UTILIZE INTEGRAL RESTRAINT PIPE SUCH AS HP LOK PIPE BY U.S. PIPE, FLEX-RING PIPE BY AMERICAN, OR APPROVED EQUAL.

TAG NOTE:
 FOR ALL TAGGED ITEMS ON WATERLINE PLAN SHEETS, THE LOCATION CODE NUMBER IS 3100 (PIPE), 3200 (VALVE), OR 3600 (HYDRANTS) AND THE FACILITY BACKBONE NUMBER IS NWW.



no.	date	by	ckd	description
0	11/12/21	CSL	TBK	PACKAGE 4: ISSUED FOR CONSTRUCTION
1	4/15/22	CSL	TBK	REVISED PER DCN 18
	4/15/22	CSL	TBK	PACKAGE 4: ISSUED FOR CONSTRUCTION
2	5/6/22	CSL	TBK	REVISED PER DCN 30
	5/6/22	CSL	TBK	PACKAGE 4: ISSUED FOR CONSTRUCTION

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 WATER PARTNERS
PEC
 PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
 303 SOUTH TOPEKA WICHITA, KS 67202
 316-262-2691 www.pec1.com
 LICENSE NO. E-310

date APRIL 6, 2020	detailed C. LINK
designed T. KAUFMAN	checked R. GLESSNER

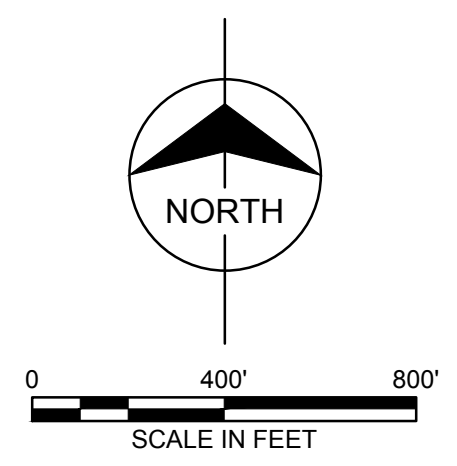
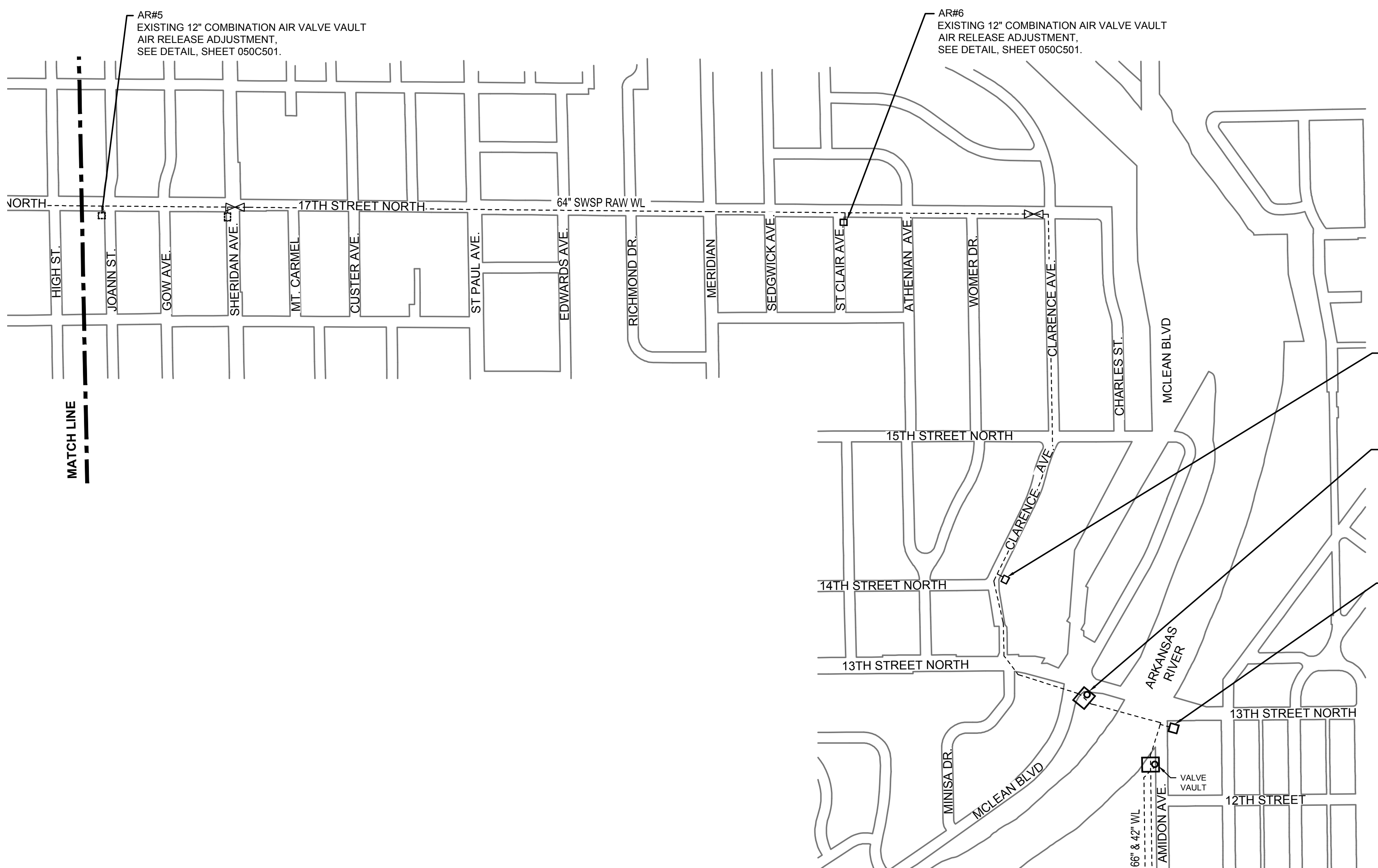
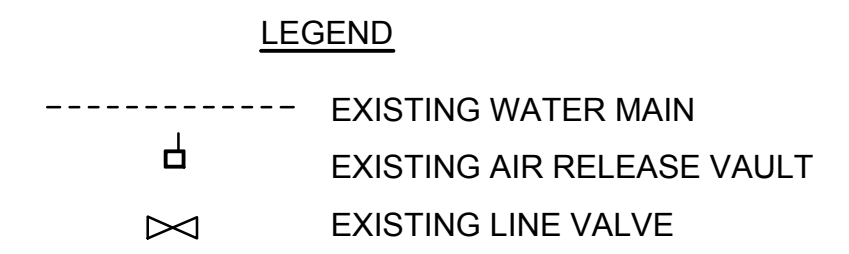
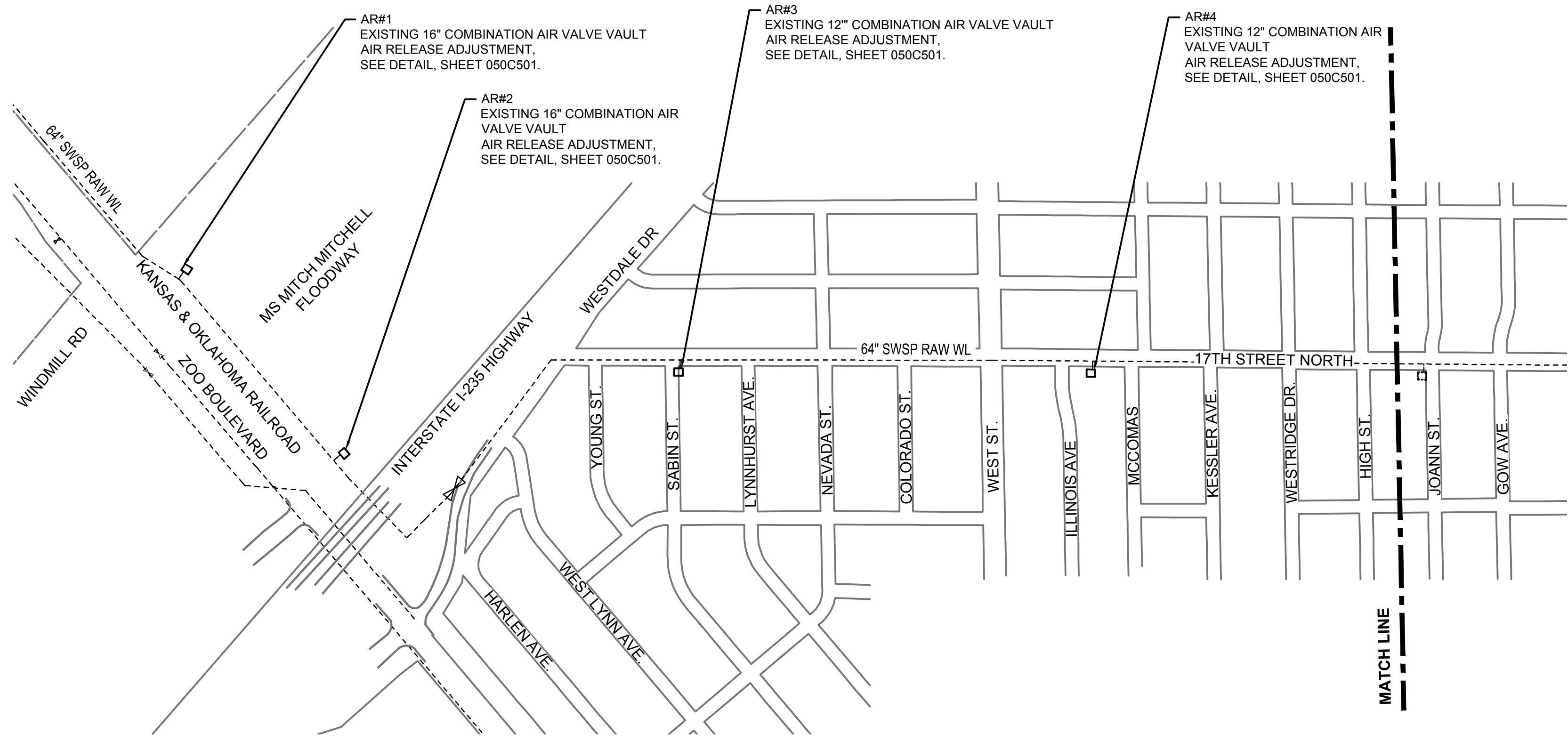


SEDGWICK COUNTY, KANSAS

**NORTHWEST WATER TREATMENT FACILITY
 SITE - CIVIL
 FINISHED WATERLINES PLAN**

project 114461	contract
drawing 050C105	rev. 2
sheet	of sheets
file 171350-009-050C105.dwg	





no.	date	by	ckd	description
0	11/12/21	CSL	TBK	PACKAGE 4: ISSUED FOR CONSTRUCTION

wichita
WATER PARTNERS

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PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
303 SOUTH TOPEKA WICHITA, KS 67202
316-262-2691 www.pec1.com
LICENSE NO. E-310

date	APRIL 6, 2020	detailed	C. LINK
designed	T. KAUFMAN	checked	R. GLESSNER

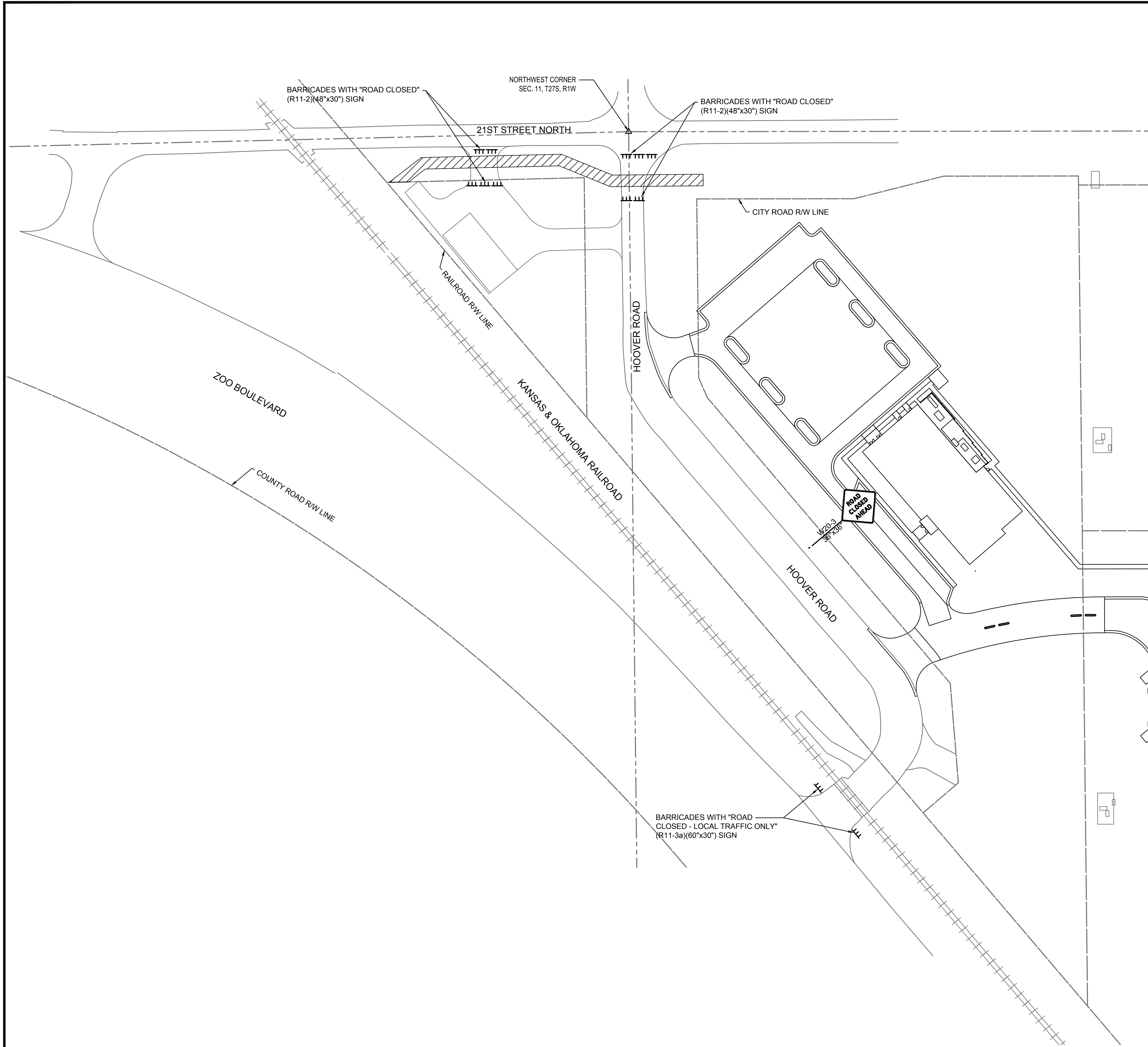





SEDGWICK COUNTY, KANSAS

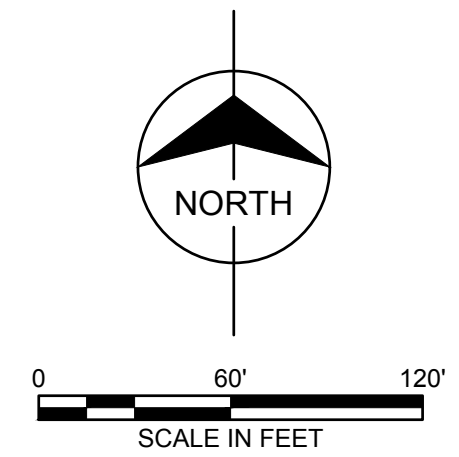
NORTHWEST WATER TREATMENT FACILITY
SITE - CIVIL
OFF-SITE AIR RELEASE ADJUSTMENT
PLAN

project	114461	contract	
drawing	050C106	rev.	0
sheet	of	sheets	
file	171350-009-050C106.dwg		





- LEGEND**
-  WORK AREA
 -  BARRICADE (TYPE 3) WITH LOW INTENSITY FLASHING WARNING LIGHTS (TYPE A) AND SIGN AS NOTED.
 -  WORK ZONE SIGN



no.	date	by	ckd	description
0	11/12/21	CSL	TBK	PACKAGE 4: ISSUED FOR CONSTRUCTION

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PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
303 SOUTH TOPEKA WICHITA, KS 67202
316-262-2691 www.pec1.com
LICENSE NO. E-310

date APRIL 6, 2020	detailed S. CANFIELD
designed T. KAUFMAN	checked R. GLESSNER



SEDGWICK COUNTY, KANSAS

**NORTHWEST WATER TREATMENT FACILITY
SITE - CIVIL
OFFSITE WATERLINE
TRAFFIC CONTROL PLAN**

project 114461	contract
drawing 050C107	rev. 0
sheet	of
file 171350-009-050C107.dwg	sheets



HESS LINE GENERAL NOTES:

1. DESIGN-BUILDER TO VERIFY THE DEPTH AND LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
2. TRENCH TO BE BACKFILLED WITH SAND AND FLUSHED AND VIBRATED WHEN WATER LINE RUNS UNDER PAVEMENT.
3. GROUNDWATER LEVELS SHOWN IN PLAN AND PROFILES ARE BASED ON NWWTF PHASE 2B VALVE VAULT GEOTECHNICAL ENGINEERING SERVICES REPORT, DATED JANUARY 25, 2021.
4. RESTORE ALL DISTURBED AREAS TO GRAVEL OR C.O.W. SEEDING SPEC.
5. IRRIGATION TO BE REPLACED IN-LIKE-KIND.

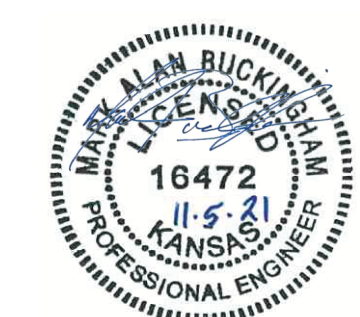
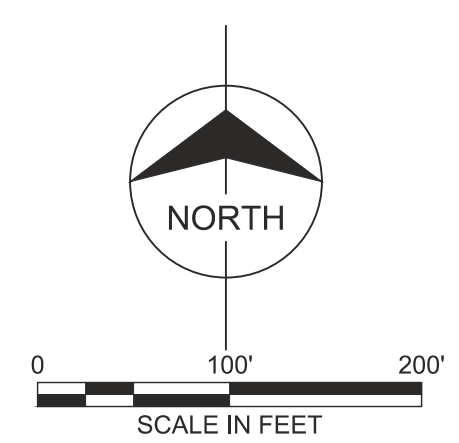
no.	date	by	ckd	description
0	11/12/21	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION



LEGEND

===== PROPOSED HESS BYPASS

REFER TO SHEET 040V003 FOR BENCHMARK AND CONTROL POINT INFORMATION.



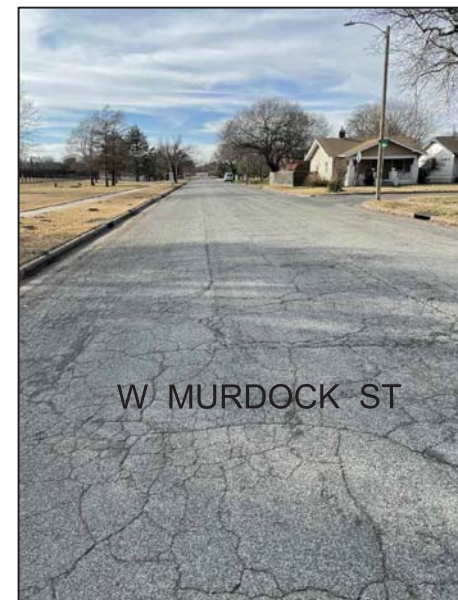
date	FEB. 11, 2021	detailed	J. CODY
designed	D. LANCASTER	checked	S. FRANK



SEDGWICK COUNTY, KANSAS	
NORTHWEST WATER TREATMENT FACILITY	
OFF-SITE PIPING	
HESS BYPASS	
OVERALL LAYOUT	
project	contract
114461	
drawing	rev.
050C110	0
sheet	of sheets
file 114461_050_C110.dwg	



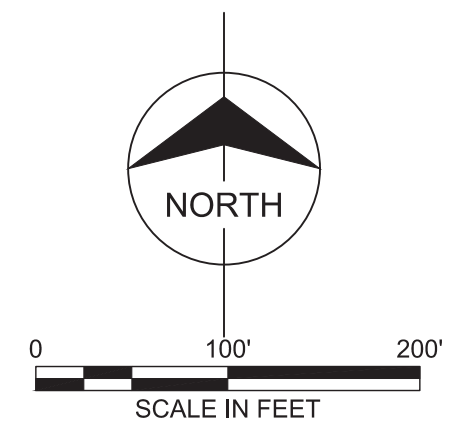
LOOKING EAST



LOOKING WEST



LOOKING NORTH



LOOKING WEST



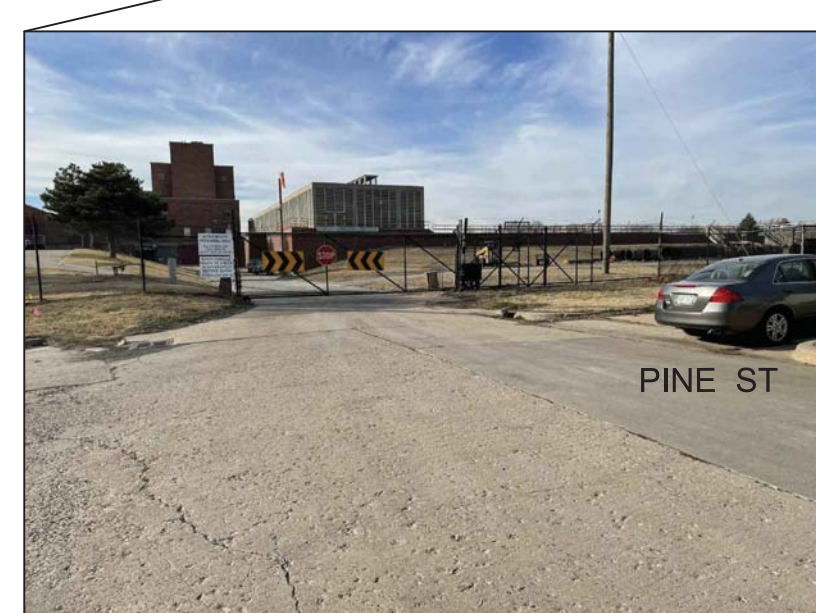
LOOKING WEST



LOOKING SOUTH



LOOKING NORTH



LOOKING WEST



LOOKING EAST



LOOKING WEST

no.	date	by	ckd	description
0	11/12/21	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION
1	5/6/22	MAB		REVISED PER DCN 22
	5/6/22	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION

wichita
WATER PARTNERS

MKEC
Wichita, KS • 316.684.9600
LICENSE NO. E-249

date	FEB. 19, 2021	detailed	J. CODY
designed	D. LANCASTER	checked	S. FRANK

CITY OF WICHITA
SEDGWICK COUNTY, KANSAS

NORTHWEST WATER TREATMENT FACILITY
OFF-SITE PIPING
HESS BYPASS
DEMO PLAN

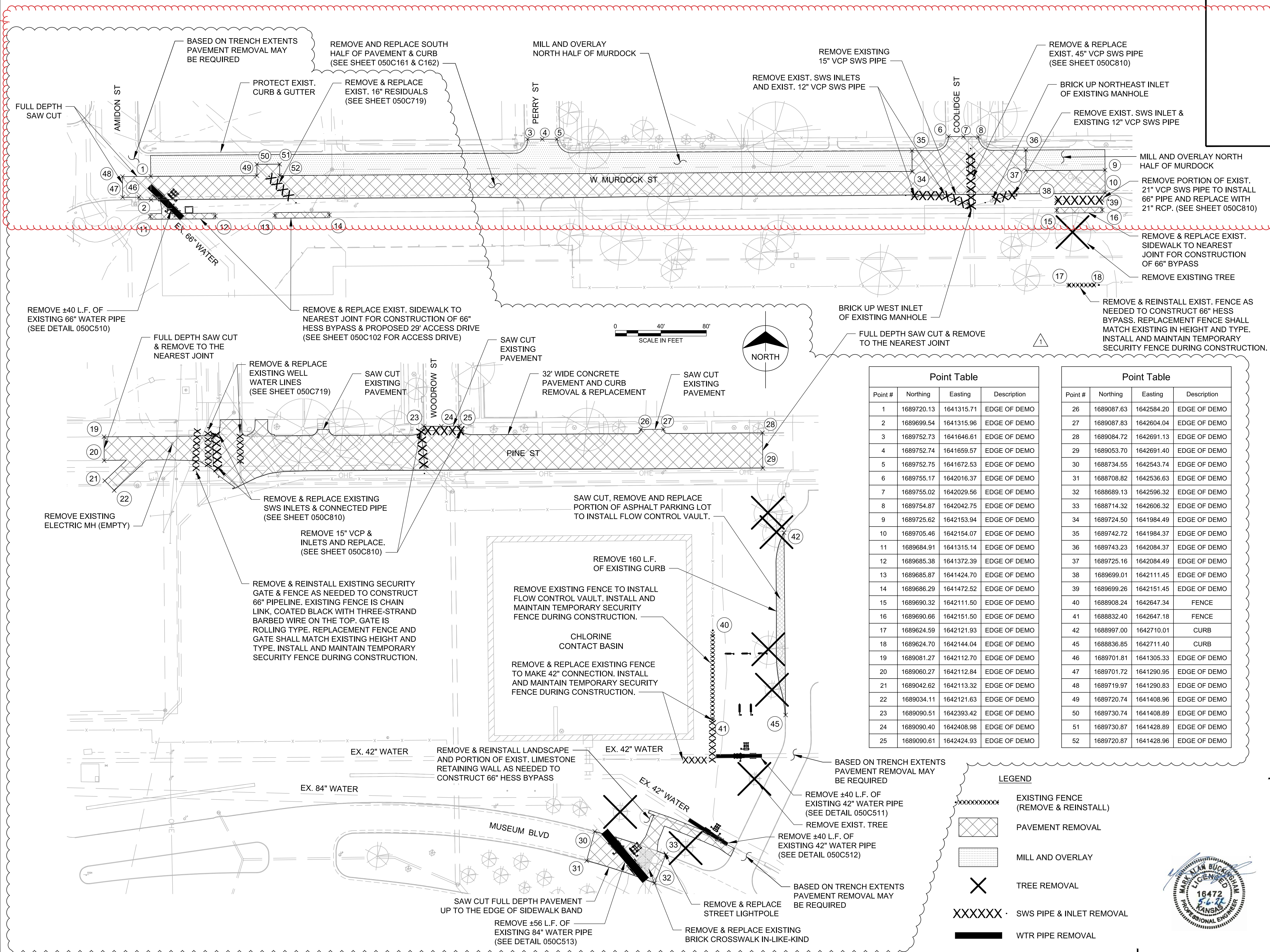
project	114461	contract	
drawing	050C111	rev.	1
sheet	of	sheets	
file 114461_050_C111.dwg			

- LEGEND**
- PROPOSED HESS BYPASS
 - EXISTING FENCE (REMOVE & REINSTALL)
 - PAVEMENT REMOVAL
 - MILL & OVERLAY PAVEMENT
 - GRAVEL REMOVAL
 - TREE REMOVAL

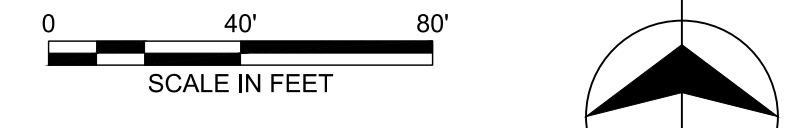


SEE SHEET 050C112 FOR DEMOLITION DIMENSIONS AND COORDINATES.

RFI 969



no.	date	by	ckd	description
0	11/12/21	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION
1	5/6/22	MAB		REVISED PER DCN 22
	5/6/22	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION



Point Table			
Point #	Northing	Easting	Description
1	1689720.13	1641315.71	EDGE OF DEMO
2	1689699.54	1641315.96	EDGE OF DEMO
3	1689752.73	1641646.61	EDGE OF DEMO
4	1689752.74	1641659.57	EDGE OF DEMO
5	1689752.75	1641672.53	EDGE OF DEMO
6	1689755.17	1642016.37	EDGE OF DEMO
7	1689755.02	1642029.56	EDGE OF DEMO
8	1689754.87	1642042.75	EDGE OF DEMO
9	1689725.62	1642153.94	EDGE OF DEMO
10	1689705.46	1642154.07	EDGE OF DEMO
11	1689684.91	1641315.14	EDGE OF DEMO
12	1689685.38	1641372.39	EDGE OF DEMO
13	1689685.87	1641424.70	EDGE OF DEMO
14	1689686.29	1641472.52	EDGE OF DEMO
15	1689690.32	1642111.50	EDGE OF DEMO
16	1689690.66	1642151.50	EDGE OF DEMO
17	1689624.59	1642121.93	EDGE OF DEMO
18	1689624.70	1642144.04	EDGE OF DEMO
19	1689081.27	1642112.70	EDGE OF DEMO
20	1689060.27	1642112.84	EDGE OF DEMO
21	1689042.62	1642113.32	EDGE OF DEMO
22	1689034.11	1642121.63	EDGE OF DEMO
23	1689090.51	1642393.42	EDGE OF DEMO
24	1689090.40	1642408.98	EDGE OF DEMO
25	1689090.61	1642424.93	EDGE OF DEMO

Point Table			
Point #	Northing	Easting	Description
26	1689087.63	1642584.20	EDGE OF DEMO
27	1689087.83	1642604.04	EDGE OF DEMO
28	1689084.72	1642691.13	EDGE OF DEMO
29	1689053.70	1642691.40	EDGE OF DEMO
30	1688734.55	1642543.74	EDGE OF DEMO
31	1688708.82	1642536.63	EDGE OF DEMO
32	1688689.13	1642596.32	EDGE OF DEMO
33	1688714.32	1642606.32	EDGE OF DEMO
34	1689724.50	1641984.49	EDGE OF DEMO
35	1689742.72	1641984.37	EDGE OF DEMO
36	1689743.23	1642084.37	EDGE OF DEMO
37	1689725.16	1642084.49	EDGE OF DEMO
38	1689699.01	1642111.45	EDGE OF DEMO
39	1689699.26	1642151.45	EDGE OF DEMO
40	1688908.24	1642647.34	FENCE
41	1688832.40	1642647.18	FENCE
42	1688997.00	1642710.01	CURB
45	1688836.85	1642711.40	CURB
46	1689701.81	1641305.33	EDGE OF DEMO
47	1689701.72	1641290.95	EDGE OF DEMO
48	1689719.97	1641290.83	EDGE OF DEMO
49	1689720.74	1641408.96	EDGE OF DEMO
50	1689730.74	1641408.89	EDGE OF DEMO
51	1689730.87	1641428.89	EDGE OF DEMO
52	1689720.87	1641428.96	EDGE OF DEMO

LEGEND

- XXXXXXXXXX EXISTING FENCE (REMOVE & REINSTALL)
- [Cross-hatched box] PAVEMENT REMOVAL
- [Dotted box] MILL AND OVERLAY
- X TREE REMOVAL
- XXXXXXX SWS PIPE & INLET REMOVAL
- [Thick black line] WTR PIPE REMOVAL



wichita
WATER PARTNERS

MKEC
Wichita, KS • 316.684.9600
LICENSE NO. E-249

date	APR. 8, 2021	detailed	J. CODY
designed	D. LANCASTER	checked	S. FRANK

CITY OF WICHITA
SEDGWICK COUNTY, KANSAS

NORTHWEST WATER TREATMENT FACILITY
OFF-SITE PIPING
DEMO PLAN
DETAILED

project	114461	contract	
drawing	050C112 - 1		rev.
sheet	of	sheets	

file 114461_050_C112.dwg

NOTES:

- 10" SLUDGE LINE PIPE MATERIAL TO BE PVC C-900; DR 14
- HORIZONTAL ALIGNMENT OF PIPE SHALL BE EITHER ~21' OR ~18' OFFSET FROM THE CENTERLINE OF ROAD UNLESS OTHERWISE SHOWN. DESIGN-BUILDER MAY NEED TO SHIFT ALIGNMENT TO WORK AROUND EXISTING UTILITIES.
- MAX. DEFLECTION OF PIPE SHALL NOT EXCEED 7.5%.
- SEE TRENCH AND PIPE INSTALLATION DETAIL ON SHEET 002C029
- DESIGN-BUILDER SHALL SUBMIT TRAFFIC CONTROL PLAN TO ENGINEER FOR PIPELINE CONSTRUCTION AT MINIMUM 1 WEEK BEFORE START DATE.
- RESTORE ALL DISTURBED AREAS TO GRAVEL OR C.O.W. SEEDING SPEC.
- DESIGN-BUILDER SHALL OBTAIN ENGINEER APPROVAL BEFORE MOVING SLUDGE LINE CLOSER TO TOE OF FLOODWAY BERM. AN ANALYSIS WILL BE PERFORMED BY ENGINEER TO DETERMINE IF PIPE IS IN THE ZONE OF INFLUENCE OF THE FLOODWAY BERM.
- THE REQUIRED PIPE RESTRAINED LENGTHS TO BE PER PIPE MANUFACTURER SPECIFICATION AND SUBMITTED TO ENGINEER FOR APPROVAL.
- DESIGN-BUILDER TO RE-SET CONTROL POINTS AND BENCHMARKS IF THEY ARE ALTERED DURING CONSTRUCTION.

REFER TO SHEET 040V003 FOR BENCHMARK AND CONTROL POINT INFORMATION.

NOTE:
DESIGN-BUILDER TO VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.

no.	date	by	ckd	description
0	11/12/21	KDA	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION

no.	date	by	ckd	description

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WATER PARTNERS

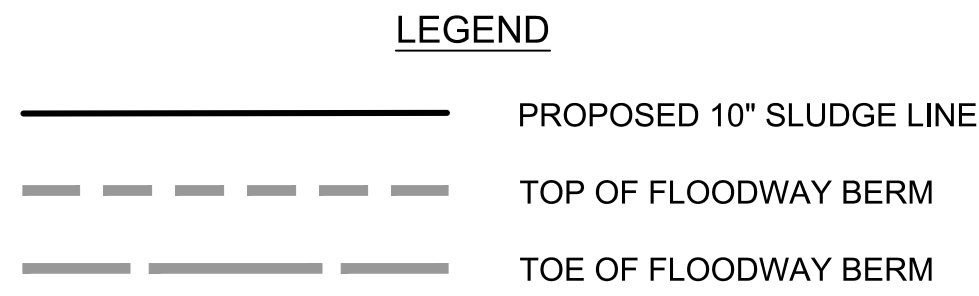
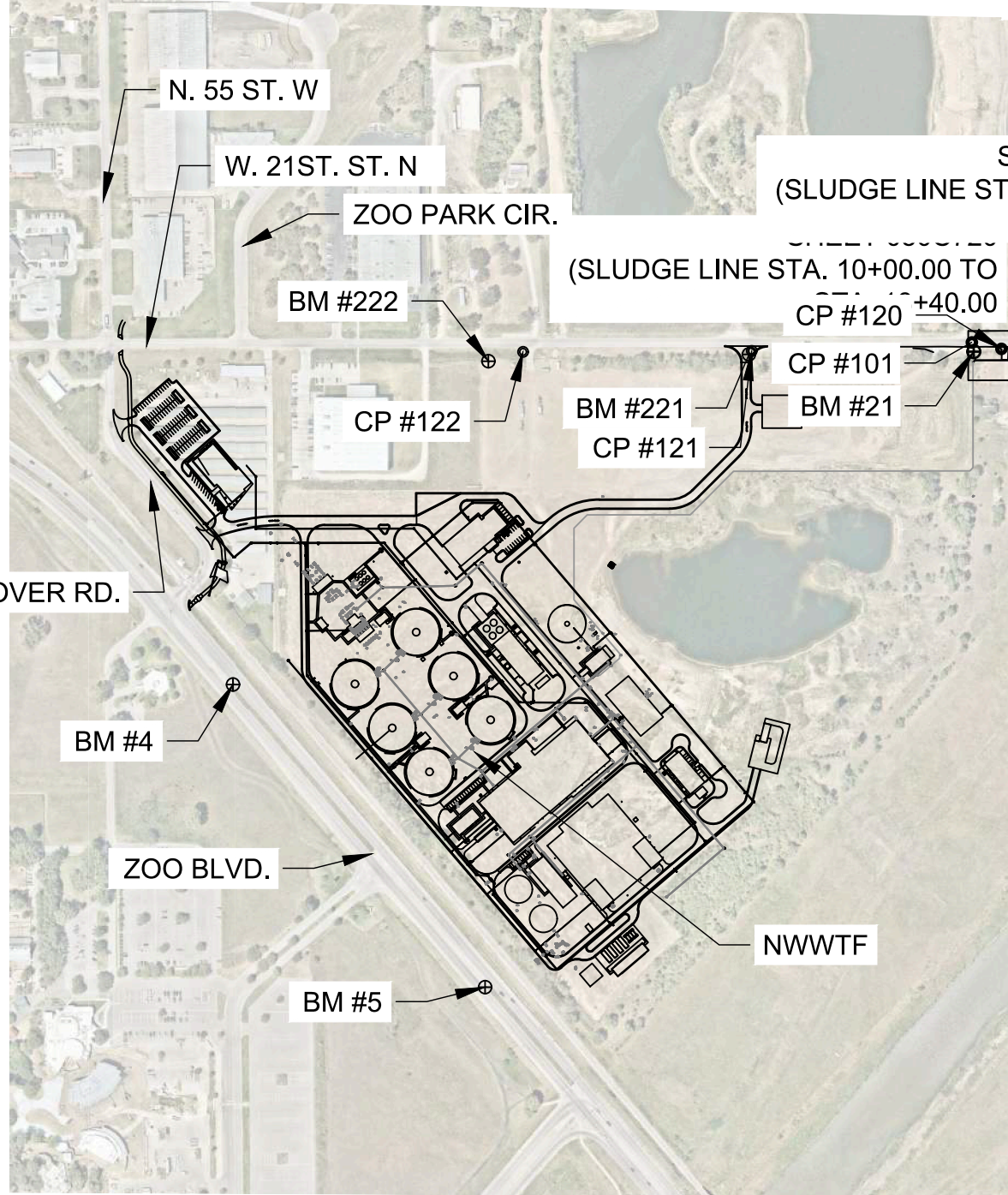
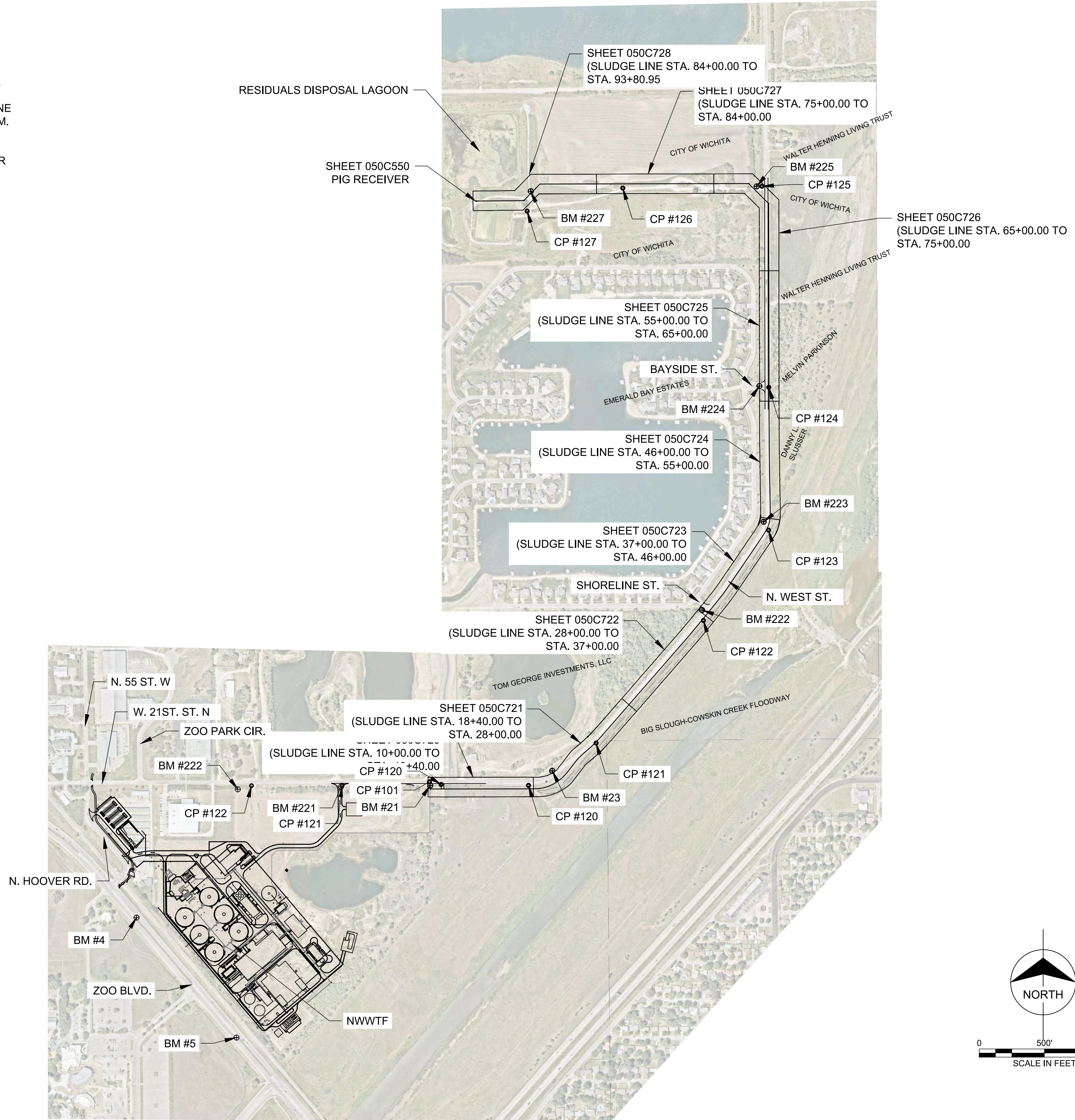
MKEC
Wichita, KS • 316.684.9600
LICENSE NO. E-249

date	FEB 05, 2021	detailed	J. CODY
designed	D. LANCASTER	checked	S. FRANK

CITY OF WICHITA
SEDGWICK COUNTY, KANSAS

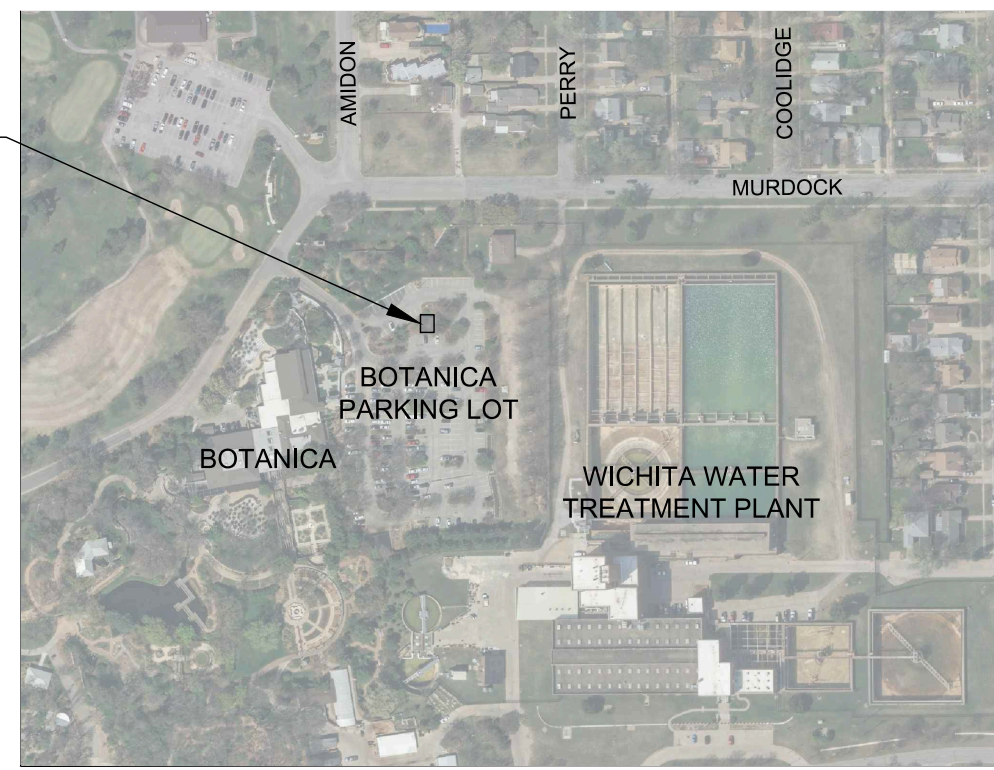
NORTHWEST WATER TREATMENT FACILITY
OFF-SITE PIPING
SLUDGE LINE
OVERALL LAYOUT

project	114461	contract	
drawing	050C120	rev.	0
sheet	of	sheets	
file 114461_050_C120.dwg			

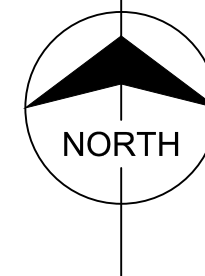


A
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PROJECT LOCATION

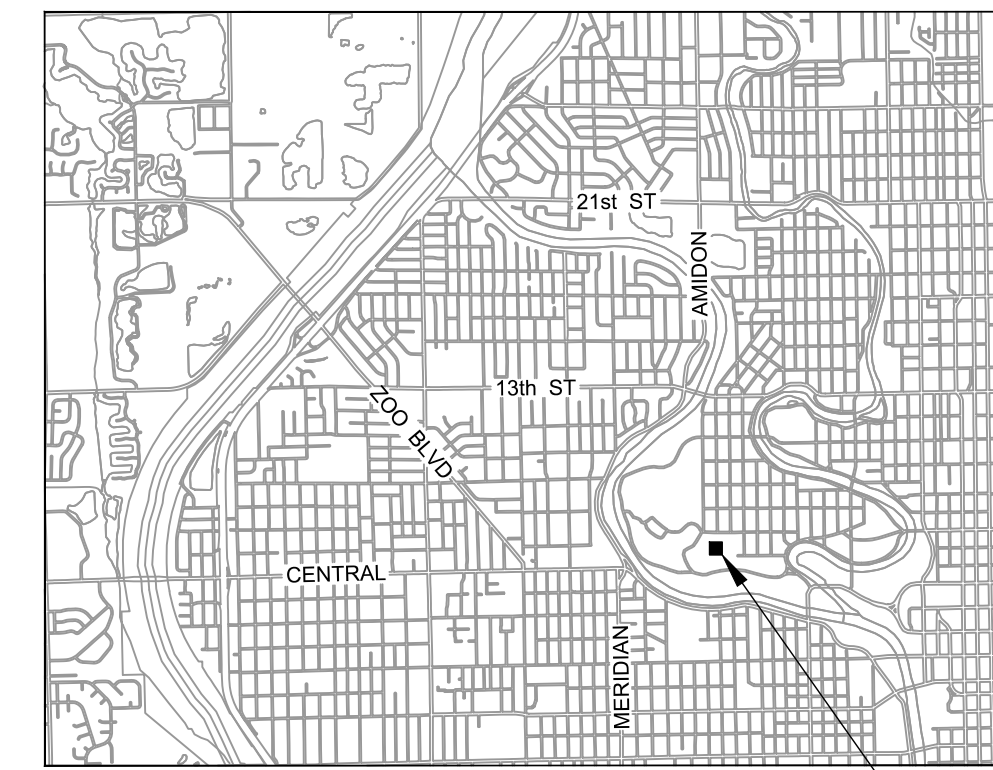


VICINITY MAP

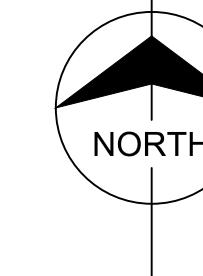


GENERAL NOTES:

1. REMOVED 66" SPOOL PIECES, COUPLING ASSEMBLY AND TIE RODS WILL REMAIN IN THE VAULT.
2. DESIGN-BUILDER WILL PLACE REMOVED SPOOLS ON BLOCKING ENSURING NO PART OF THE SPOOL OR FLANGE IS IN CONTACT WITH THE FLOOR.
3. ALL SPOOL PIECES WILL BE STORED IN SUCH A WAY AS TO ENSURE THEY WILL NOT MOVE OR ROLL.
4. DESIGN-BUILDER TO COORDINATE WITH CITY ON THE ISOLATION OF THIS SEGMENT OF LINE. BOTH TIMING AND DURATION OF ISOLATION TO BE APPROVED PRIOR TO WORK BEGINNING.
5. COORDINATION WITH HESS BY-PASS PIPELINE AND 48" SLIPLINING PROJECTS WILL BE REQUIRED TO PREVENT CONFLICTS DURING CONSTRUCTION.
6. COORDINATE WITH BOTANICA ON ALL CONSTRUCTION ACTIVITY THAT IMPACTS EXISTING PARKING LOT SPACE OR VEHICLE FLOW.

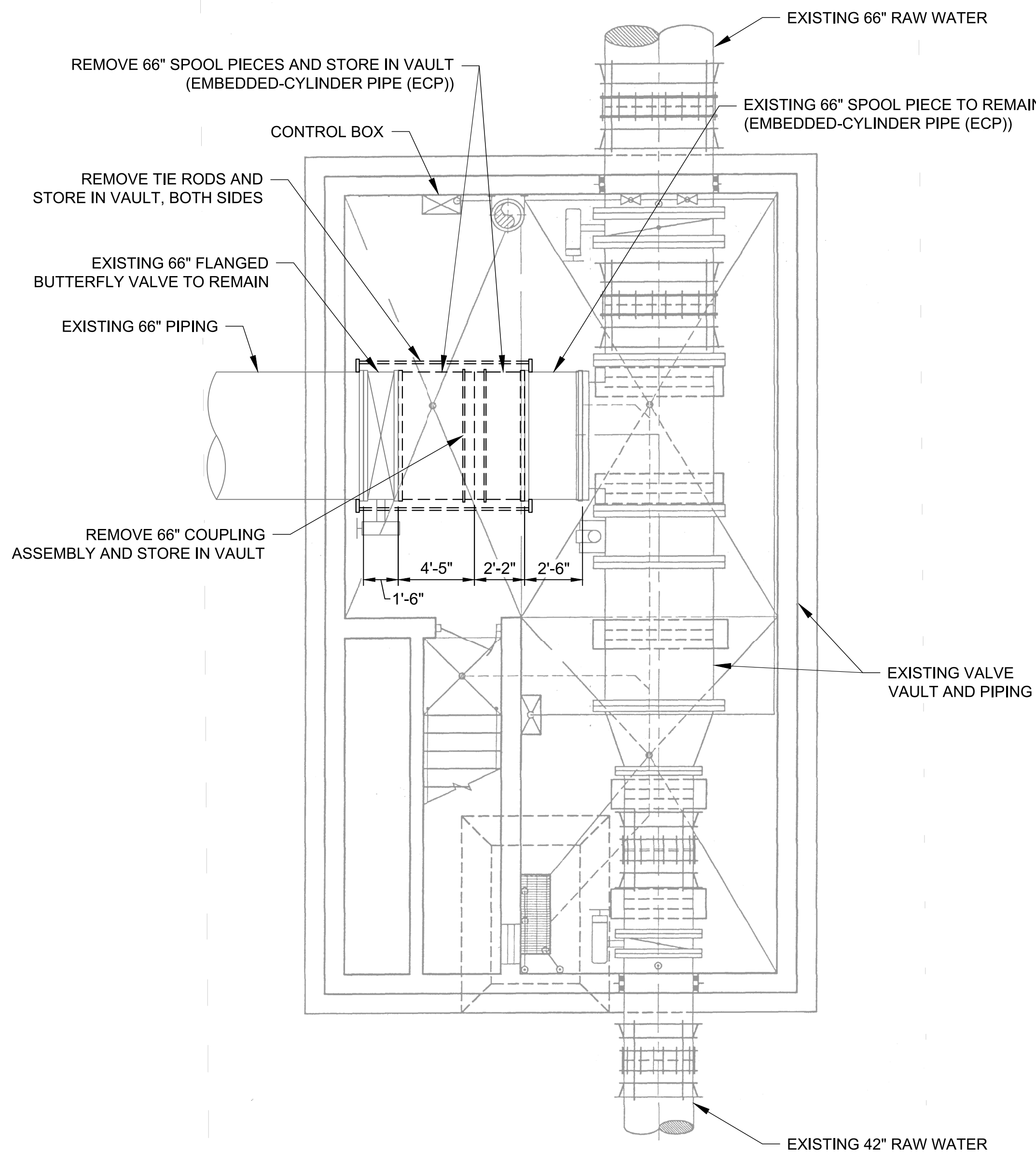


VICINITY MAP

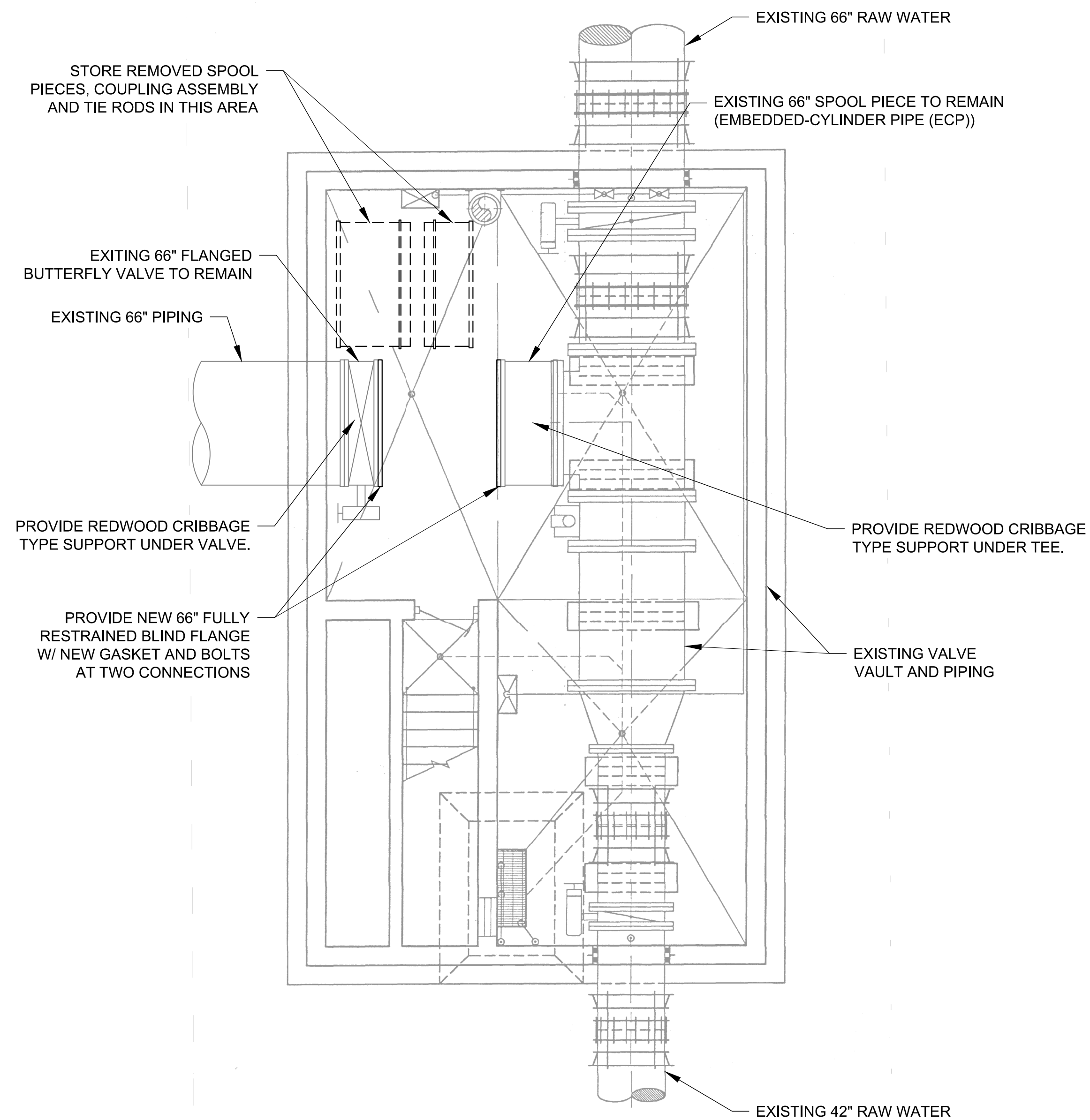
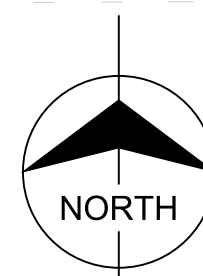


PROJECT LOCATION

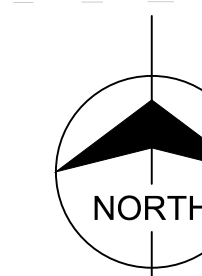
no.	date	by	ckd	description
0	11/12/21	KDA	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION



DEMOLITION WATER VAULT PIPING PLAN



RECONSTRUCTION WATER VAULT PIPING PLAN



date	JULY 28, 2021	detailed	H. BEERY
designed	K. AYOTTE	checked	S. FRANK

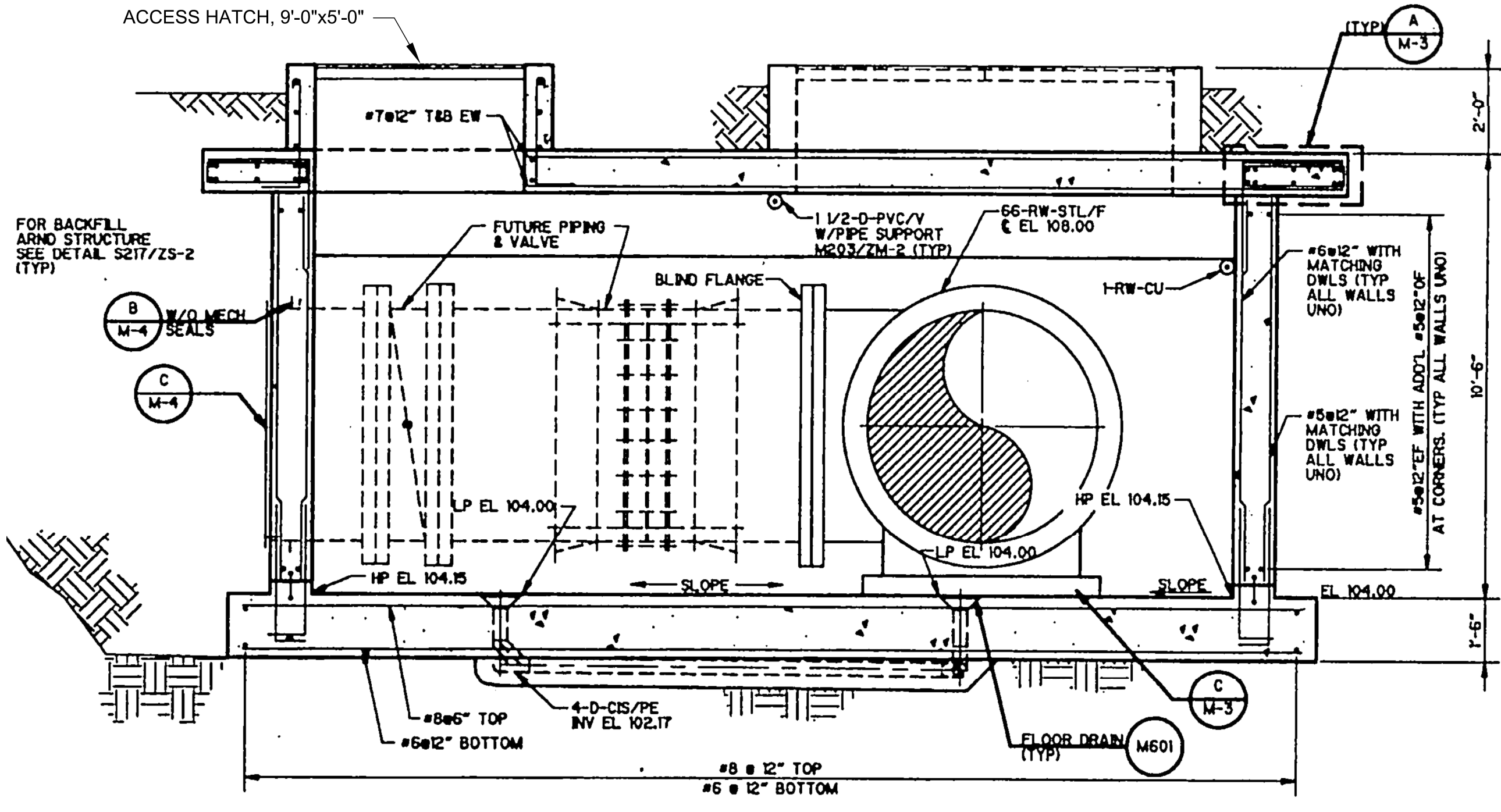


NORTHWEST WATER TREATMENT FACILITY	
OFF-SITE PIPING	
MWTP PIPE	
VAULT DEMO AND RECON PIPING PLAN	
project	contract
114461	
drawing	rev.
050C150	0
sheet	of sheets
file 114461_050_C150.dwg	

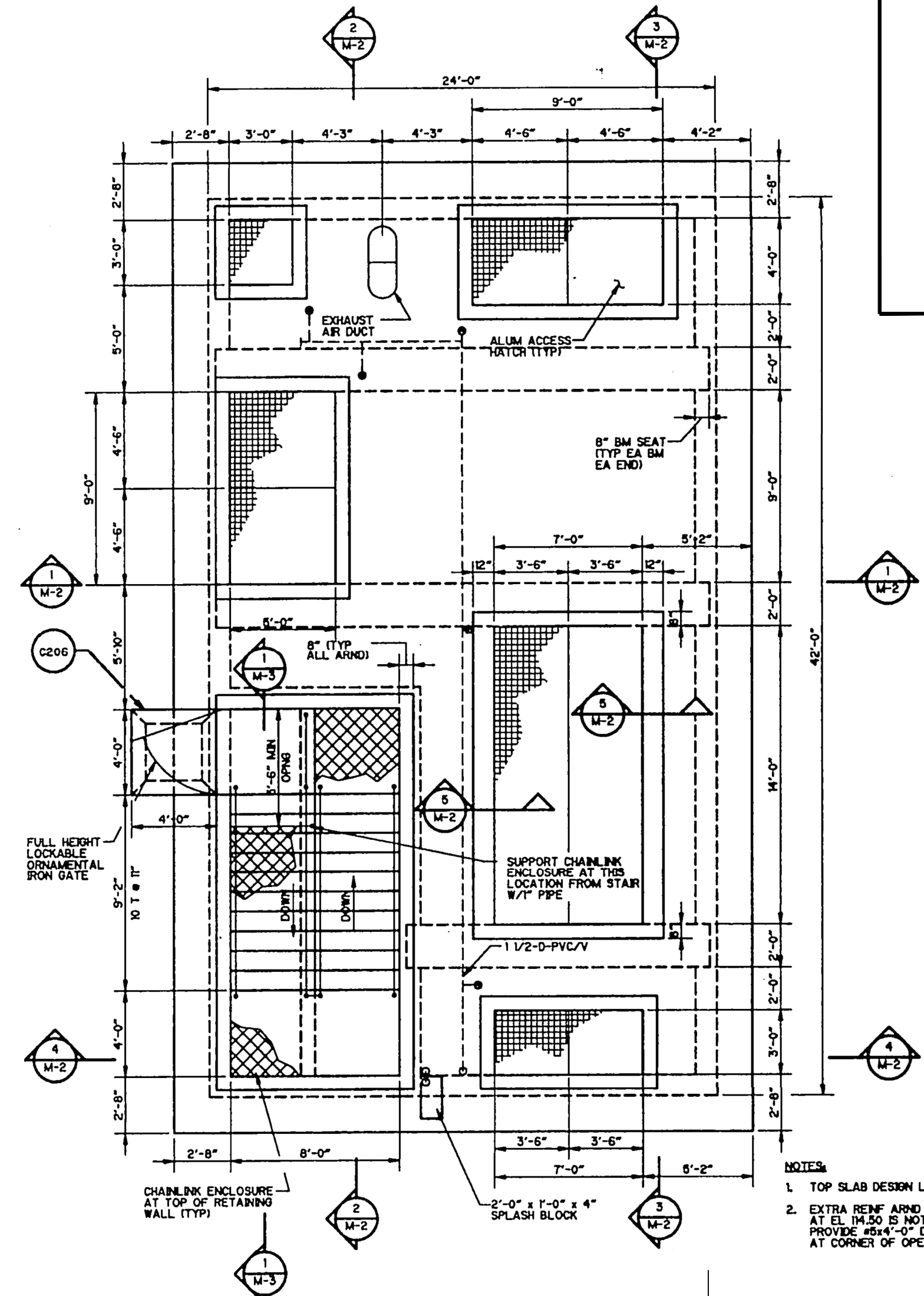


GENERAL NOTES:

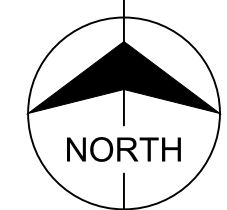
- EXISTING CONDITIONS DETAILS TAKEN FROM
-WATER TREATMENT PLANT IMPROVEMENTS
-PHASE IIB
-CAMP, DRESSER & MCKEE, INC.
-MAY 1994
- NOTES AND SECTION CALLOUT SHOWN IN THESE DETAILS ARE NOT APPLICABLE TO THIS DRAWING SET.
- DETAILS ARE PROVIDED FOR VAULT INFORMATION. ALL PIPING DETAILS ARE ON SHEET 050C150.



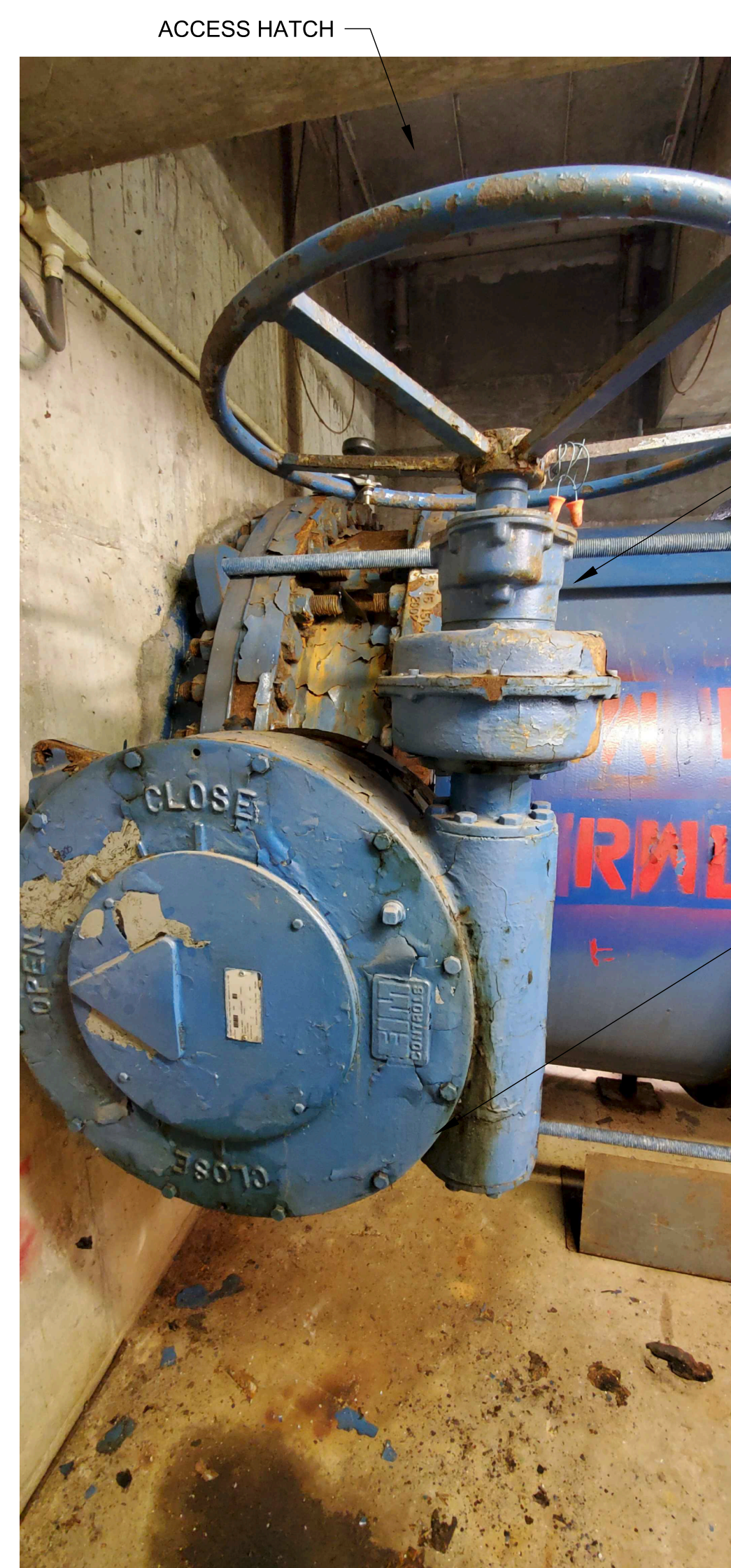
VAULT SECTION EXISTING CONDITIONS
SHEET M-2, WTP IMPROVEMENTS,
MAY 1994
LOOKING NORTH



VAULT PLAN EXISTING CONDITIONS
SHEET M-1, WTP IMPROVEMENTS,
MAY 1994



- NOTES:**
- TOP SLAB DESIGN LOAD - 300psf.
 - EXTRA REINF ARMED OPNS IN SLAB AT EL 104.50 IS NOT REINF UNCL. PROVIDE #4x4'-0" DIAGONAL T & B AT CORNER OF OPENINGS.



EXISTING 66" VALVE TO REMAIN - LOOKING NORTH

EXISTING 66" FLANGED BUTTERFLY VALVE ASSEMBLY TO REMAIN. CLOSE VALVE AND INSTALL FULLY RESTRAINED BLIND FLANGE.

EXISTING 66" FLANGED BUTTERFLY VALVE ASSEMBLY TO REMAIN. CLOSE VALVE AND INSTALL FULLY RESTRAINED BLIND FLANGE.

PROVIDE REDWOOD CRIBBAGE TYPE SUPPORT UNDER VALVE.

PROVIDE REDWOOD CRIBBAGE TYPE SUPPORT UNDER VALVE.

REMOVE ALL TIE RODS AND STORE IN VAULT

ACCESS HATCH

REMOVE 66" COUPLING ASSEMBLY AND STORE IN VAULT

INSTALL NEW 66" FULLY RESTRAINED BLIND FLANGE

EXISTING 66" TEE TO REMAIN



EXISTING 66" PIPE ASSEMBLY - LOOKING NORTH

no.	date	by	ckd	description
0	11/12/21	KDA	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION

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WATER PARTNERS

MKEC
Wichita, KS • 316.684.9600
LICENSE NO. E-249

date	JULY 28, 2021	detailed	H. BEERY
designed	K. AYOTTE	checked	S. FRANK

CITY OF WICHITA

SEDGWICK COUNTY, KANSAS

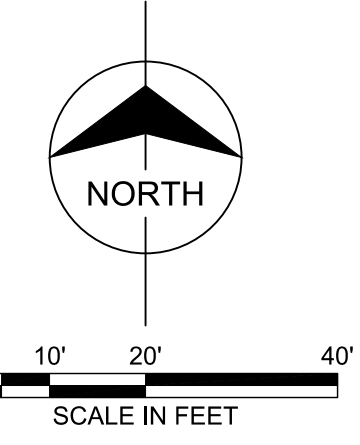
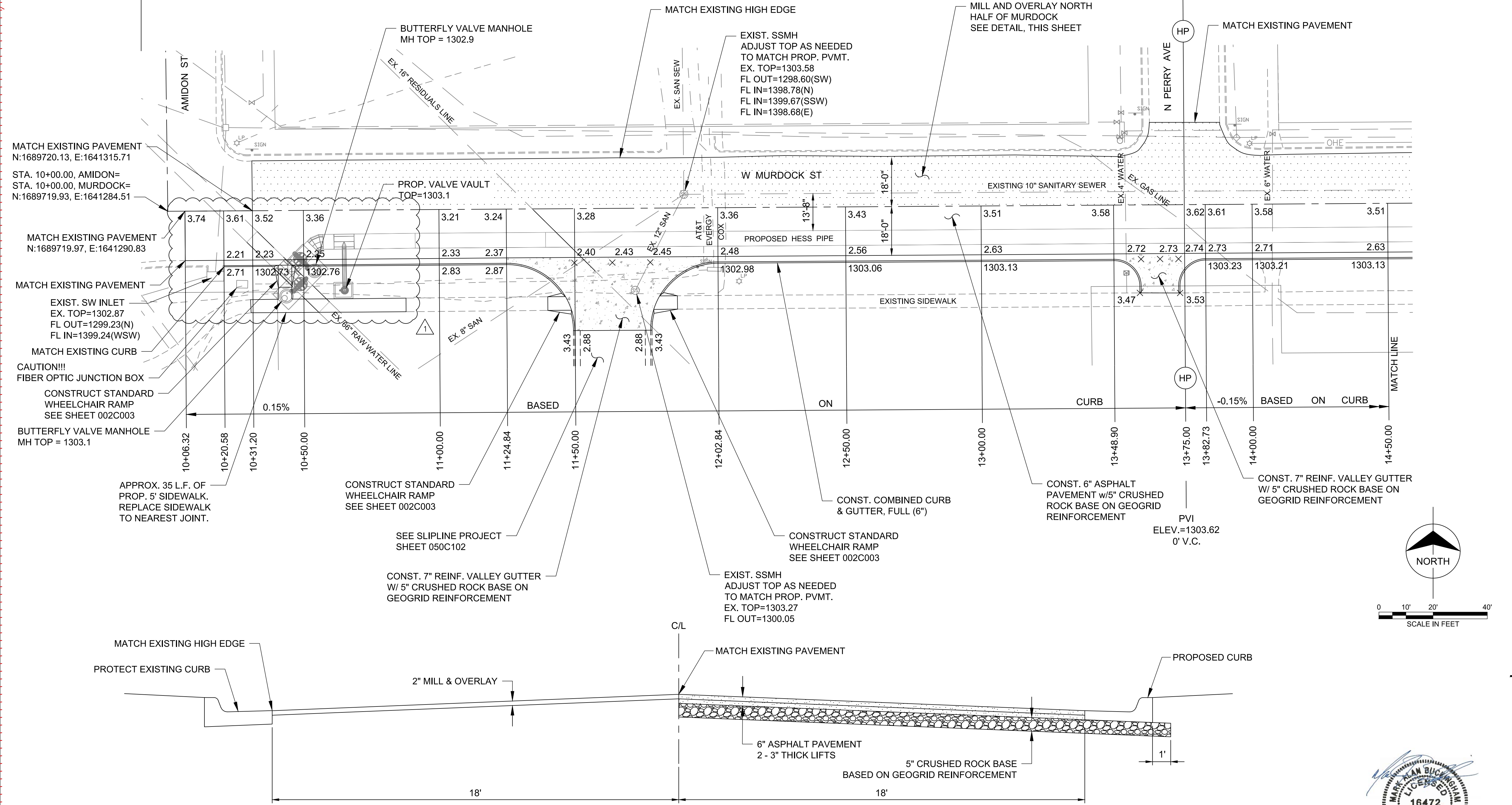
NORTHWEST WATER TREATMENT FACILITY	
OFF-SITE PIPING	
MWTP PIPE	
VAULT PICTURES AND EXISTING CONDITIONS	
project	contract
114461	
drawing	rev.
050C151	0
sheet	of sheets
file 114461_050_C151.dwg	



RFI 969

RFI 995

no.	date	by	ckd	description
0	11/12/21	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION
1	5/6/22	MAB		REVISED PER DCN 22
	5/6/22	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION



wichita
WATER PARTNERS

MKEC
Wichita, KS • 316.684.9600
LICENSE NO. E-249

date	APR. 8, 2021	detailed	J. CODY
designed	D. LANCASTER	checked	S. FRANK



SEDGWICK COUNTY, KANSAS
NORTHWEST WATER TREATMENT FACILITY
OFF-SITE PIPING
PAVING PLAN
MURDOCK SHEET 1

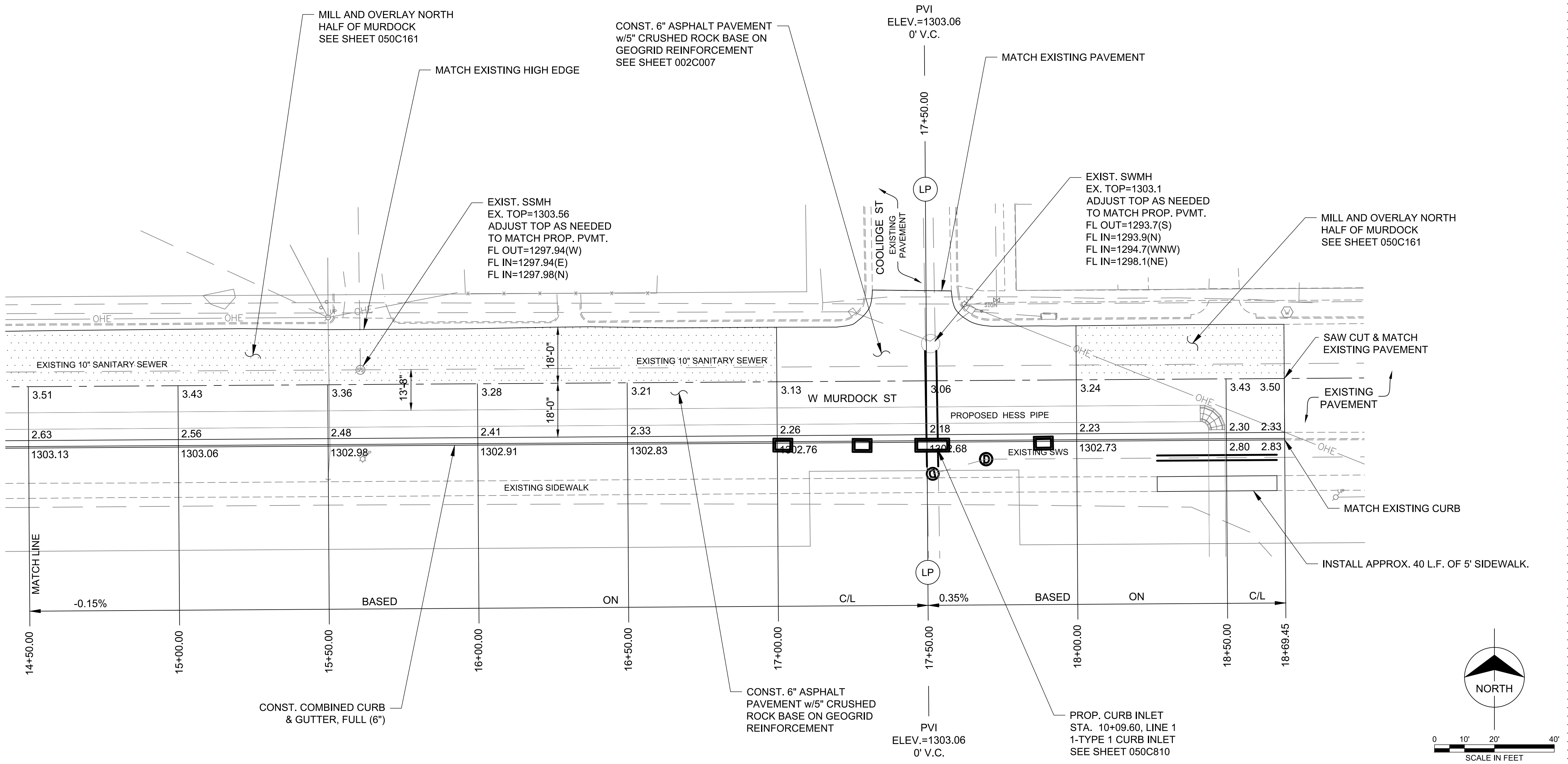
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drawing	050C161	rev.	1
sheet	of	sheets	
file	114461_050_C161.dwg		

MURDOCK PAVEMENT REPLACEMENT DETAIL
NOT TO SCALE - LOOKING UP STA.



RFI 995

RFI 969



no.	date	by	ckd	description
0	11/12/21	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION



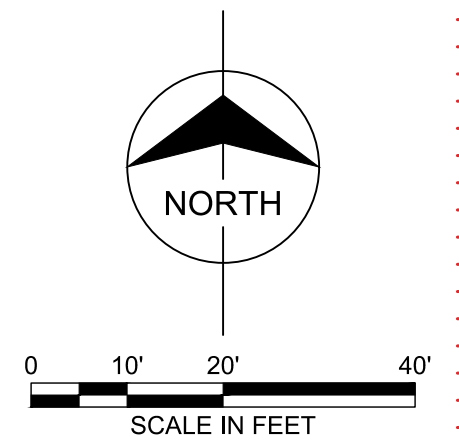
date	APR. 8, 2021	detailed	J. CODY
designed	D. LANCASTER	checked	S. FRANK

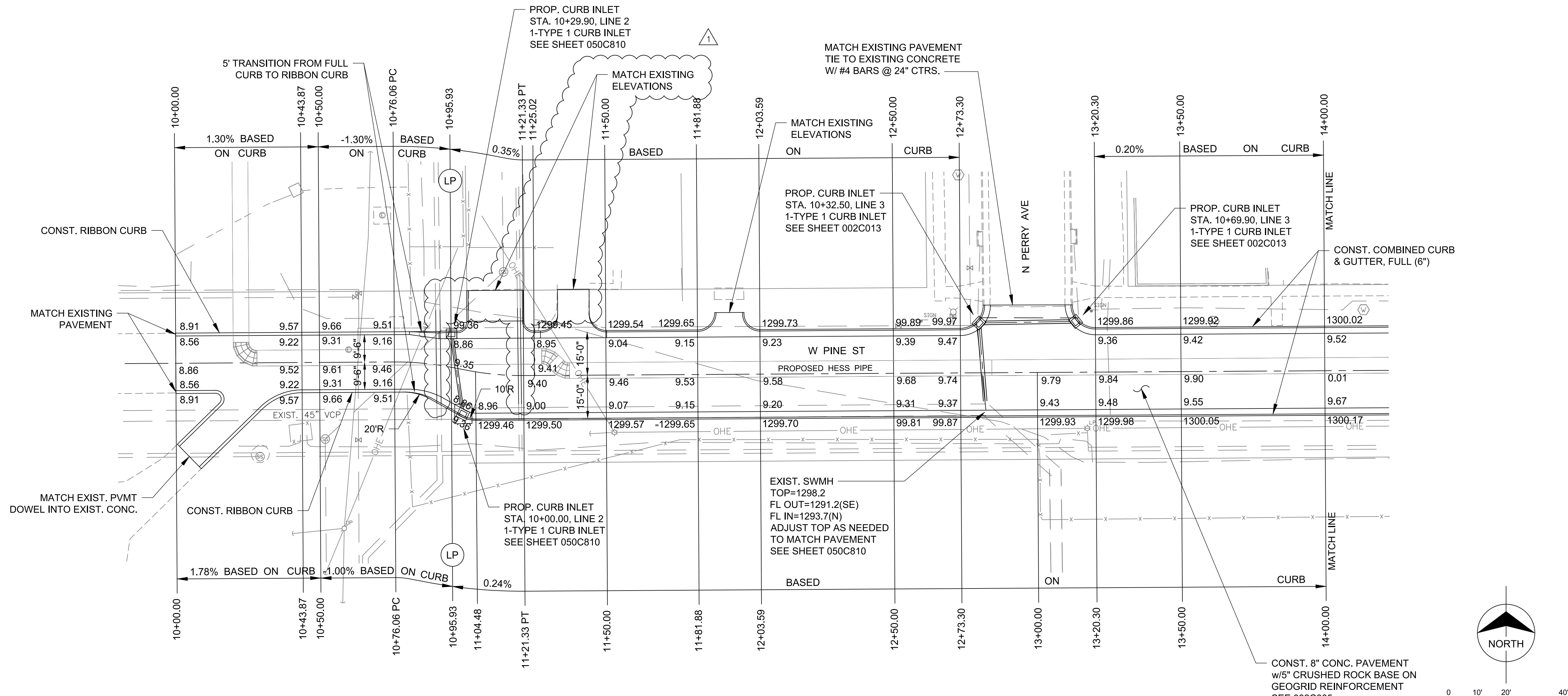


SEDGWICK COUNTY, KANSAS

NORTHWEST WATER TREATMENT FACILITY
OFF-SITE PIPING
PAVING PLAN
MURDOCK SHEET 2

project	114461	contract	
drawing	050C162	rev.	0
sheet	of	sheets	
file 114461_050_C162.dwg			





no.	date	by	ckd	description
0	11/12/21	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION
1	5/6/22	MAB		REVISED PER DCN 22
	5/6/22	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION



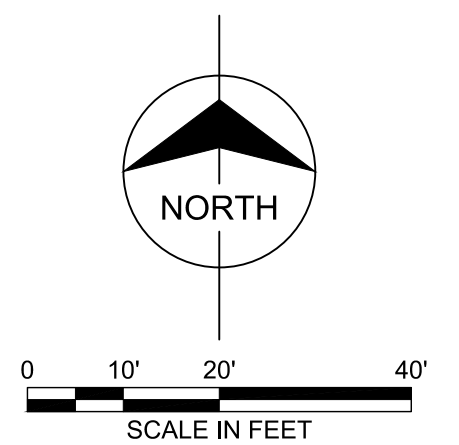
date	APR. 8, 2021	detailed	J. CODY
designed	D. LANCASTER	checked	S. FRANK

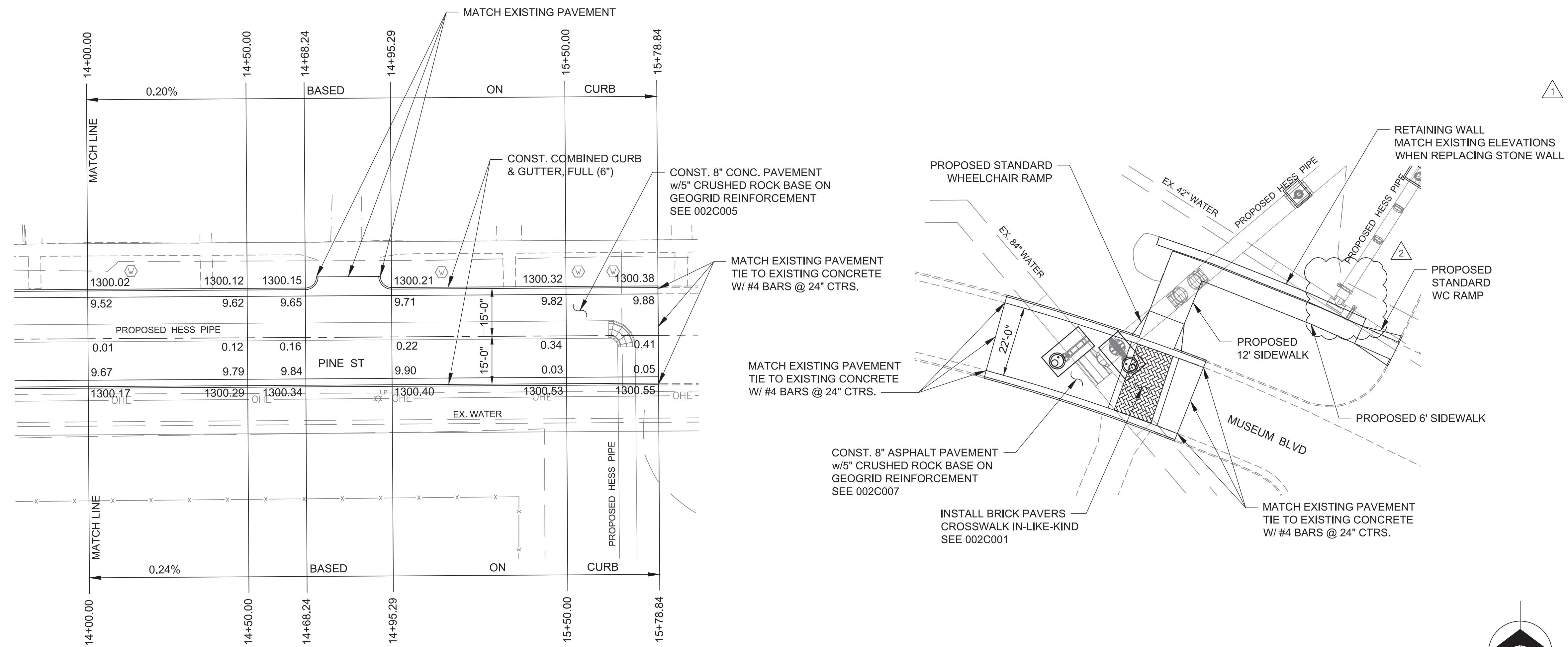


SEDGWICK COUNTY, KANSAS

NORTHWEST WATER TREATMENT FACILITY
OFF-SITE PIPING
PAVING PLAN
PINE SHEET 1

project	114461	contract	
drawing	050C163	rev.	1
sheet	of	sheets	
file 114461_050_C163.dwg			





no.	date	by	ckd	description
0	11/12/21	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION
1	5/6/22	MAB		REVISED PER DCN 22
	5/6/22	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION
2	9/2/22	MAB		REVISED PER DCN 65
	9/2/22	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION

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Wichita, KS • 316.684.9600
LICENSE NO. E-249



date	APR. 8, 2021	detailed	J. CODY
designed	D. LANCASTER	checked	S. FRANK

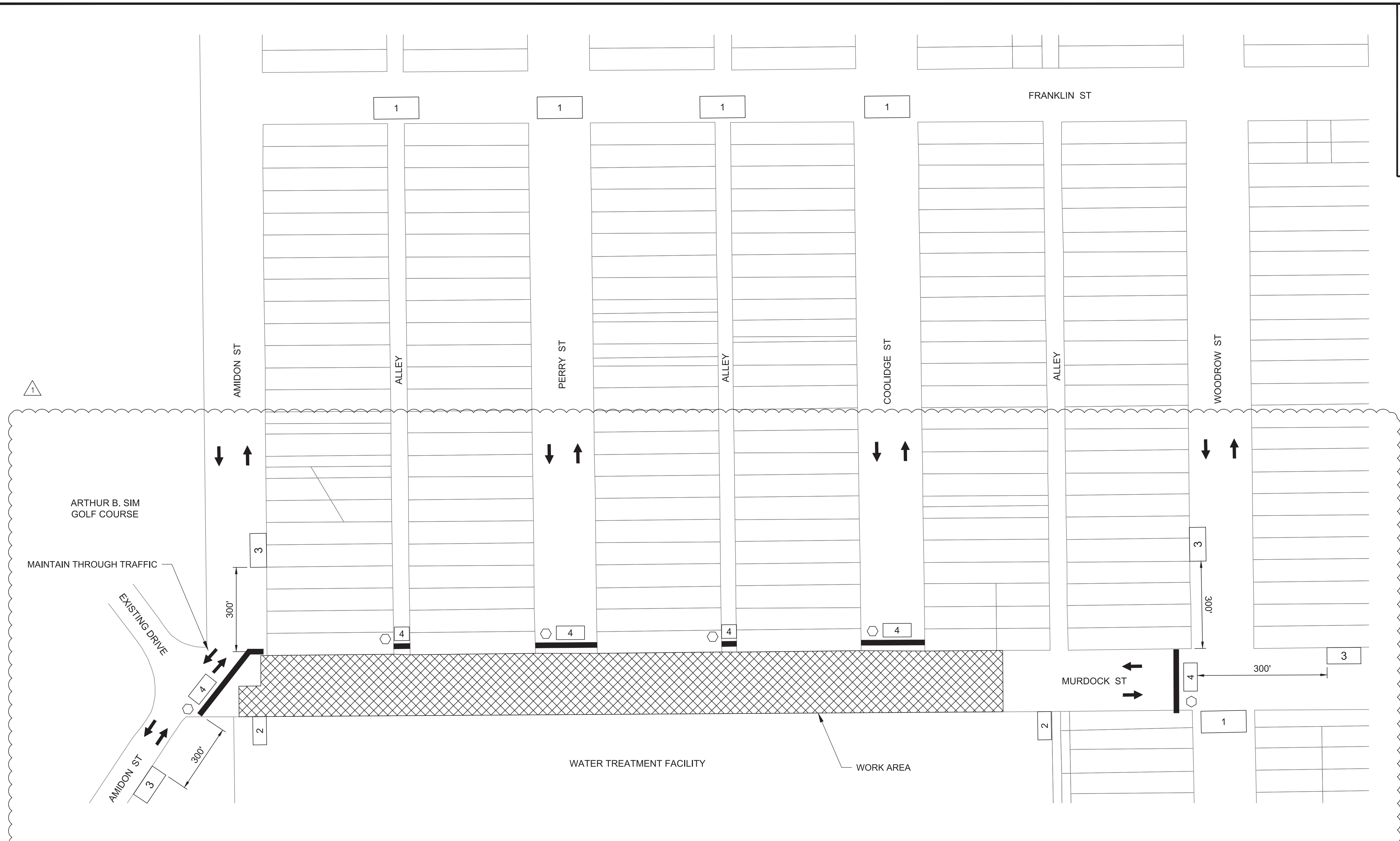


SEDGWICK COUNTY, KANSAS

NORTHWEST WATER TREATMENT FACILITY
OFF-SITE PIPING
PAVING PLAN
PINE SHEET 2

project	114461	contract	
drawing	050C164	rev.	2
sheet	of	sheets	
file 114461_050_C164.dwg			





no.	date	by	ckd	description
0	11/12/21	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION
1	5/6/22	MAB		REVISED PER DCN 22
	5/6/22	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION

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LICENSE NO. E-249

date MAY 20, 2021	detailed J. CODY
designed D. LANCASTER	checked S. FRANK

CITY OF WICHITA
SEDGWICK COUNTY, KANSAS

NORTHWEST WATER TREATMENT FACILITY
OFF-SITE PIPING
TRAFFIC CONTROL PLAN
MURDOCK

project 114461	contract
drawing 050C170	rev. 1
sheet	of sheets
file 114461_050_C170.dwg	

NOTES:

- DESIGN-BUILDER SHALL NOTIFY APPROPRIATE CITY OF WICHITA PERSONNEL A MINIMUM OF TEN (10) DAYS PRIOR TO THE CLOSURE OF ANY STREETS.
- A MINIMUM OF FIVE (5) DAYS PRIOR TO CLOSING STREETS DESIGN-BUILDER SHALL NOTIFY ALL RESIDENTS ON AMIDON, PERRY, COOLIDGE, AND WOODROW STREETS BETWEEN FRANKLIN STREET AND MURDOCK OF THE IMPENDING CLOSING OF STREETS AND ALLEYS.
- NOTIFICATIONS TO THE AFFECTED RESIDENCES SHALL INCLUDE THE DATE STREETS & ALLEY CLOSURES WILL COMMENCE, THE DATE THE STREETS WILL BE OPENED TO TRAFFIC AND INFORMATION ABOUT WHICH STREETS AND ALLEYS WILL BE TEMPORARILY CLOSED.
- AMIDON STREET IS TO REMAIN OPENED THROUGHOUT THE DURATION OF CONSTRUCTION.
- REFER TO C.O.W. TRAFFIC CONTROL DETAILS: TE700, TE702, TE704, TE710, & TE712.

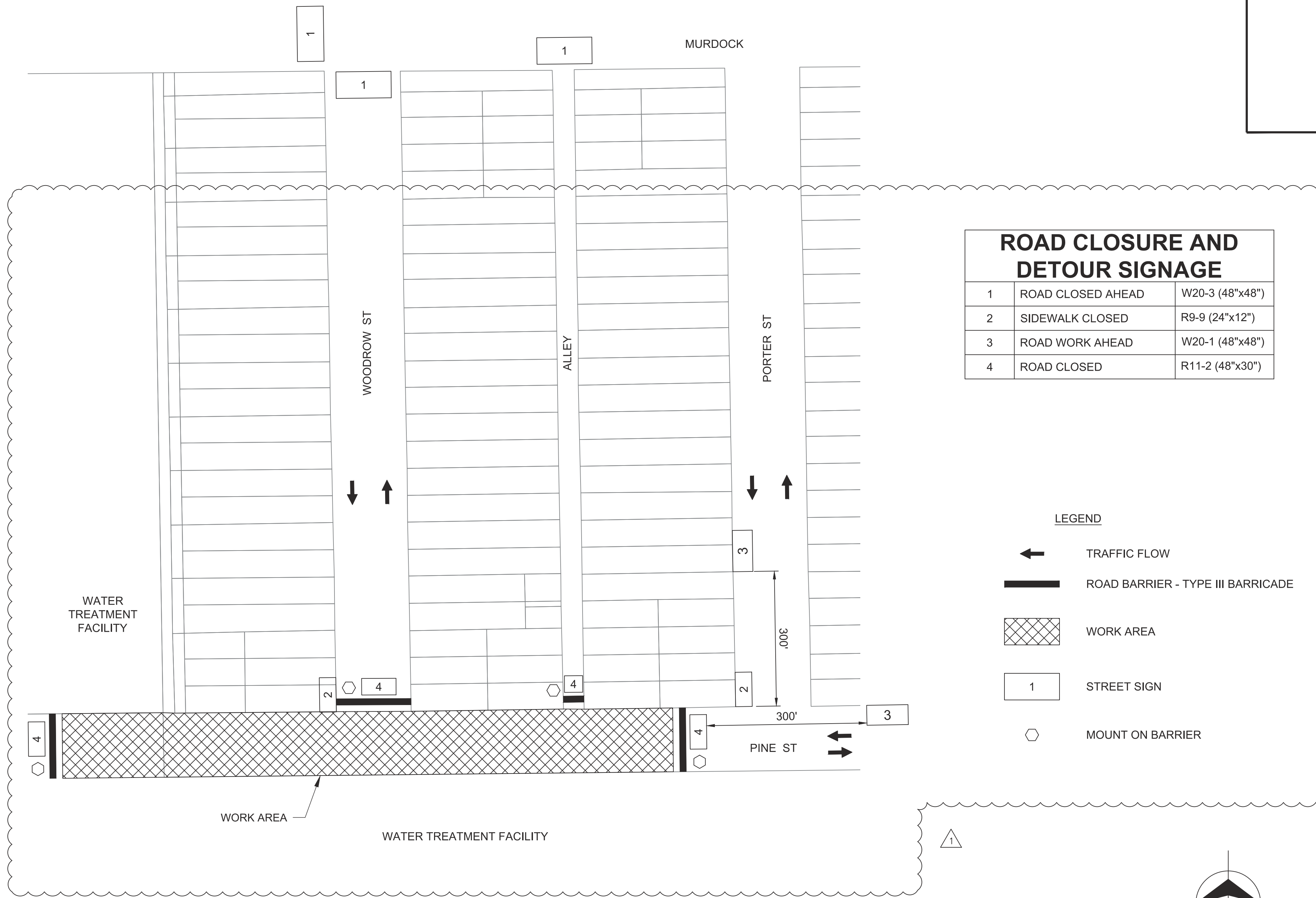
LEGEND

	TRAFFIC FLOW
	ROAD BARRIER - TYPE III BARRICADE
	WORK AREA
	STREET SIGN
	MOUNT ON BARRIER

ROAD CLOSURE AND DETOUR SIGNAGE

1	ROAD CLOSED AHEAD	W20-3 (48"x48")
2	SIDEWALK CLOSED	R9-9 (24"x12")
3	ROAD WORK AHEAD	W20-1 (48"x48")
4	ROAD CLOSED	R11-2 (48"x30")





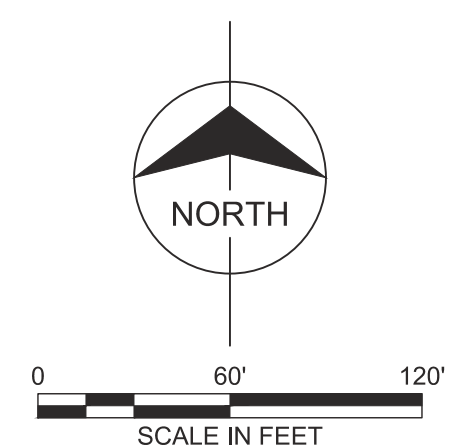
no.	date	by	ckd	description
0	11/12/21	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION
1	5/6/22	MAB		REVISED PER DCN 22
	5/6/22	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION

PINE STREET & ASSOCIATED ALLEYS CLOSURE NOTES:

- DESIGN-BUILDER SHALL NOTIFY APPROPRIATE CITY OF WICHITA PERSONNEL A MINIMUM OF TEN (10) DAYS PRIOR TO THE CLOSURE OF ANY STREETS.
- A MINIMUM OF FIVE (5) DAYS PRIOR TO CLOSING STREETS DESIGN-BUILDER SHALL NOTIFY ALL RESIDENTS ON PORTER AND WOODROW STREETS BETWEEN PINE STREET AND MURDOCK OF THE IMPENDING CLOSING OF STREETS AND ALLEYS.
- NOTIFICATIONS TO THE AFFECTED RESIDENCES SHALL INCLUDE THE DATE STREETS & ALLEY CLOSURES WILL COMMENCE, THE DATE THE STREETS WILL BE OPENED TO TRAFFIC AND INFORMATION ABOUT WHICH STREETS AND ALLEYS WILL BE TEMPORARILY CLOSED.
- PORTER STREET IS TO REMAIN OPENED THROUGHOUT THE DURATION OF CONSTRUCTION.
- REFER TO C.O.W. TRAFFIC CONTROL DETAILS: TE700, TE702, TE704, TE710, & TE712.

PINE STREET CLOSURE - WATER PLANT OPERATIONS DISTRIBUTION NOTES:

- PINE STREET IS THE PRIMARY DELIVERY CORRIDOR FOR CERTAIN WATER TREATMENT CHEMICALS. DESIGN-BUILDER SHALL COORDINATE ALL WORK ACTIVITY WITH WATER PLANT PERSONNEL.
- WATER PLANT PERSONNEL WILL SCHEDULE A CHEMICAL DELIVERY AFTER WHICH PINE STREET MAY BE CLOSED FOR FOURTEEN (14) CALENDAR DAYS.
- THE DAY AFTER THE 14 CALENDAR DAY CLOSURE THE DESIGN-BUILDER SHALL HAVE PINE STREET CAPABLE OF BEING DRIVEN ON BY A TRACTOR TRAILER CHEMICAL DELIVERY TRUCK. ROADWAY ACCESS ALONG PINE STREET FOR CHEMICAL DELIVERY SHALL BE MAINTAINED FOR A MINIMUM OF TWO (2) CALENDAR DAYS AFTER WHICH PINE STREET CAN BE CLOSED FOR FOURTEEN (14) ADDITIONAL CALENDAR DAYS IF NECESSARY. TWO CALENDAR DAYS OF ACCESS FOR CHEMICAL DELIVERY MUST BE PROVIDED FOR EACH 14-DAY CLOSURE PERIOD.
- DESIGN-BUILDER SHALL NOTIFY WATER PLANT PERSONNEL A MINIMUM OF FIVE (5) DAYS PRIOR TO THE START OF THE TWO CALENDAR DAYS OF NAVIGABLE ACCESS FOR CHEMICAL DELIVERY.



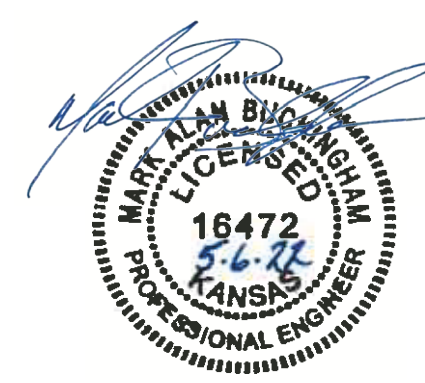
date	MAY 20, 2021	detailed	J. CODY
designed	D. LANCASTER	checked	S. FRANK

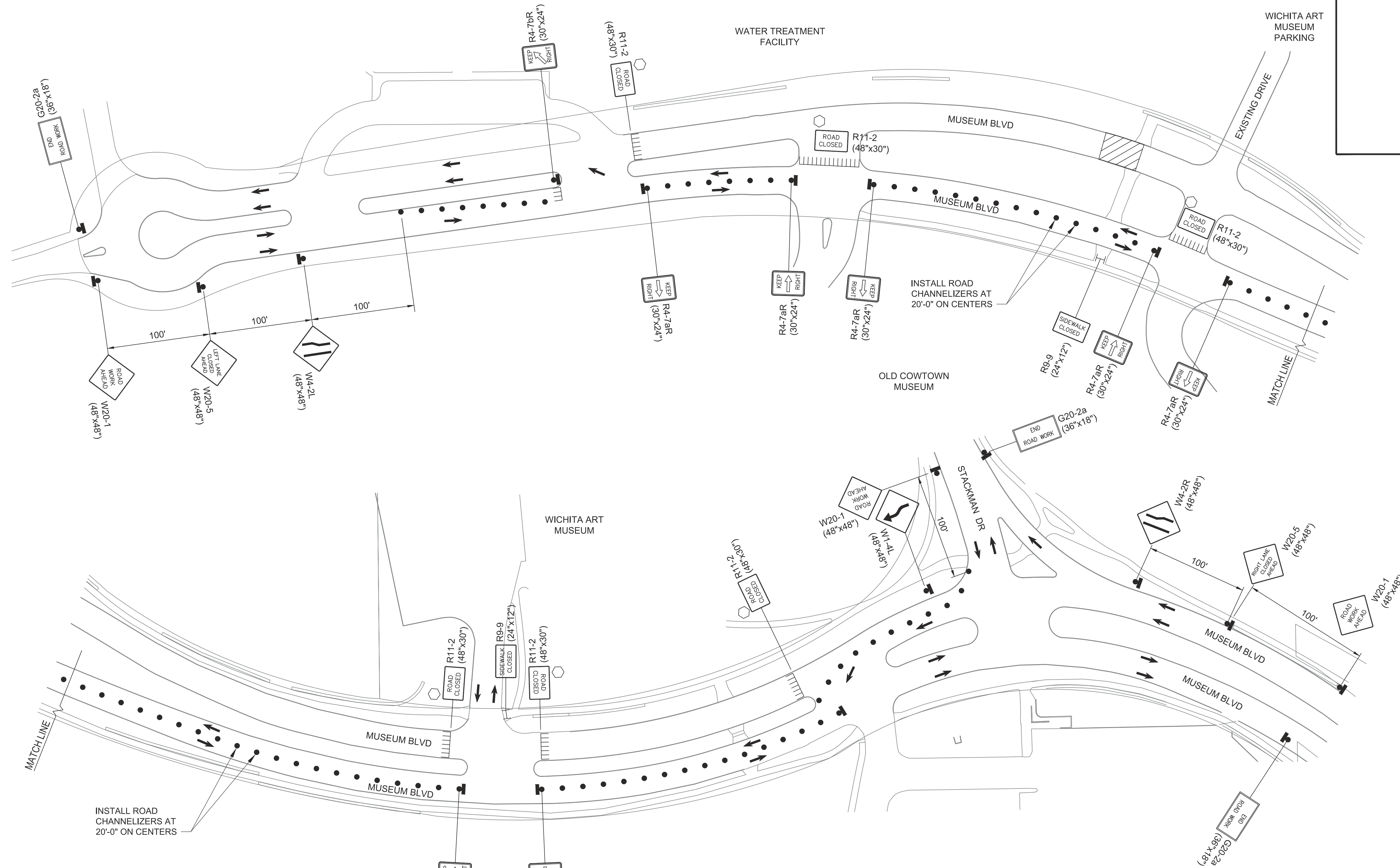


SEDGWICK COUNTY, KANSAS

NORTHWEST WATER TREATMENT FACILITY
OFF-SITE PIPING
TRAFFIC CONTROL PLAN
PINE

project	114461	contract	
drawing	050C171	rev.	1
sheet	of	sheets	
file 114461_050_C171.dwg			

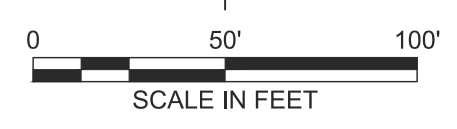




INSTALL ROAD CHANNELIZERS AT 20'-0" ON CENTERS

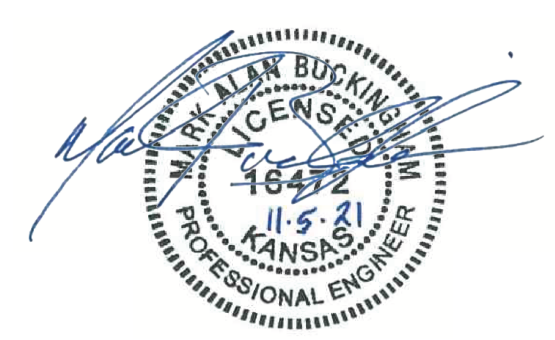
GENERAL TRAFFIC CONTROL NOTES:

1. ALL SIGNS AND PAVEMENT MARKINGS CONFLICTING WITH CONSTRUCTION TRAFFIC CONTROL SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.
2. AS THE VARIOUS CONSTRUCTION ACTIVITIES PROGRESS, CERTAIN SITUATIONS MAY ARISE THAT WILL PRECLUDE ADHERING TO THE ORIGINAL CONSTRUCTION SEQUENCE OR WHICH, IN THE OPINION OF THE CONTRACTOR, WOULD READILY ADAPT THEMSELVES TO A MORE EFFICIENT PHASING OPERATION. SHOULD THIS OCCUR, THE CONTRACTOR MAY SUBMIT TO THE ENGINEER AN ALTERNATIVE PLAN FOR APPROVAL.
3. ALL TRAFFIC CONTROLS SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
4. REFER TO C.O.W. TRAFFIC CONTROL DETAILS: TE700, TE702, TE704, TE710, & TE712.



LEGEND

- Type III Barricade
- Mount on Type III Barricade
- Channelizer
- Sign
- Work Area
- Traffic Flow
- Type II Barricade



no.	date	by	ckd	description
0	11/12/21	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION

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date	OCT. 25, 2021	detailed	J. CODY
designed	D. LANCASTER	checked	S. FRANK



SEDGWICK COUNTY, KANSAS

NORTHWEST WATER TREATMENT FACILITY
OFF-SITE PIPING
TRAFFIC CONTROL PLAN
MUSEUM BLVD

project	114461	contract	
drawing	050C172	rev.	0
sheet	of	sheets	
file 114461_050_C172.dwg			

N: 1698833.6574, E: 1627816.1732
 RAW WL 1, STA. 0+40.6
 INSTALL DRAIN LINE
 REF. DE **TAIL** SHEET **050C770**.

N: 1,698,830.3921, E: 1627813.2354
 STA. 0+36.3, RAW WL 1
 INSTALL 66" 22.5" BEND
 DEFL. = 23'15'00"

N: 1,698,825.1475, E: 1627810.2685
 STA. 0+30.2, RAW WL 1
 INSTALL 66" 30" BEND (VERTICAL)

N: 1,698,811.7208, E: 1627802.6730
 STA. 0+14.8, RAW WL 1
 INSTALL 66" 30" BEND (VERTICAL)

N: 1,698,806.8484, E: 1627799.9167
 STA. 0+09.2, RAW WL 1
 INSTALL 66" BUTTERFLY VALVE

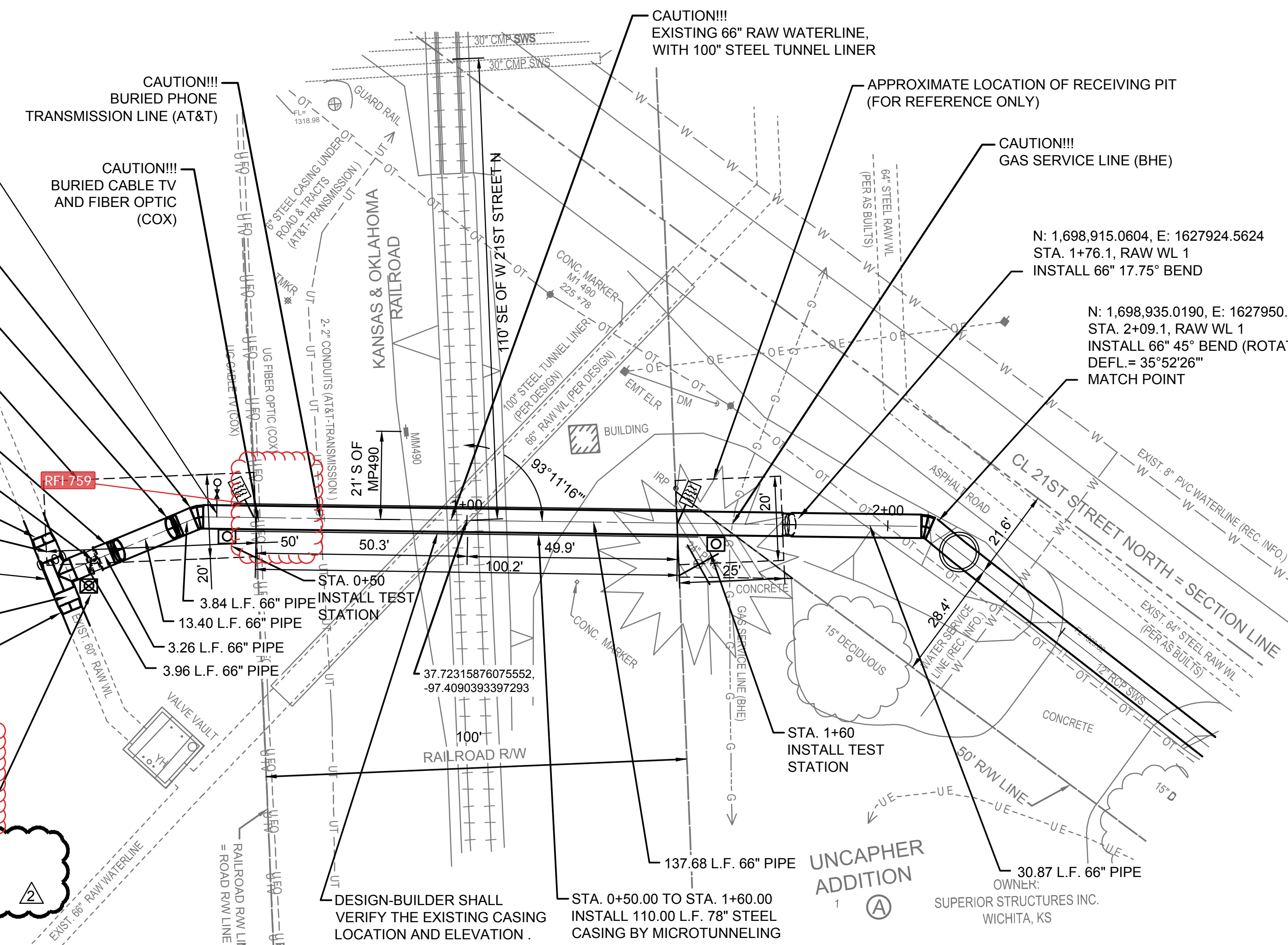
N: 1,698,803.2757, E: 1627787.5642
 STA. 0+00.0, RAW WL 1
 INSTALL 66" X 60" REDUCER *

N: 1,698,798.8362, E: 1627795.3843
 STA. 0+00.0, RAW WL 1
 EXISTING 60" RAW WATERLINE
 REMOVE EXSTING PIPE AS NECESSARY *
 INSTALL 66" TEE

N: 1,698,794.8892, E: 1627802.3407
 STA. 0+00.0, RAW WL 1
 INSTALL 66" X 60" REDUCER *

RFI 721
 STA. 0+09
 INSTALL TEST STATION
 ISOLATION FLANGE KIT SHALL BE INSTALLED ON BOTH
 FLANGES OF THE BUTTERFLY VALVE. THE ISOLATING JOINT
 TEST STATION SHALL BE INSTALLED WITH LEAD WIRES
 SPANNING THE VALVE.

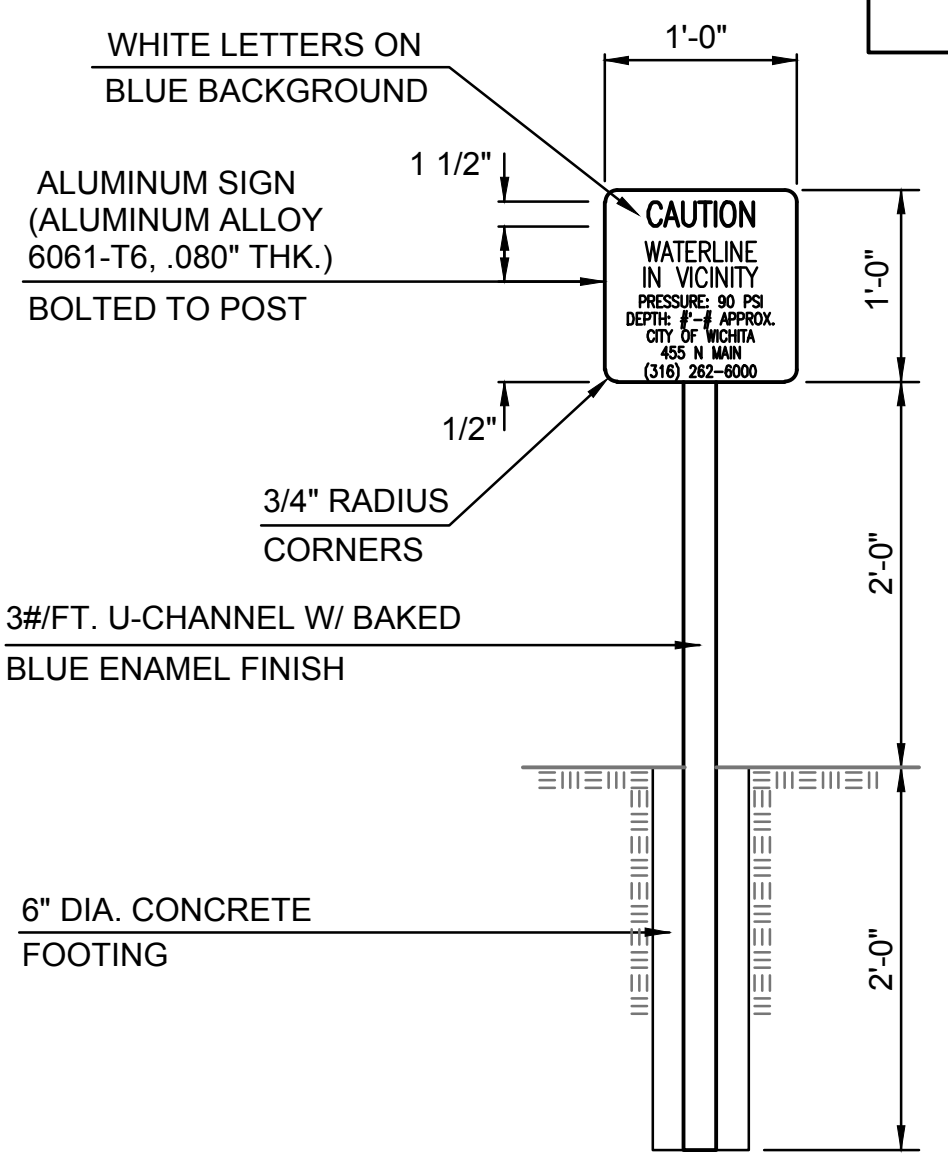
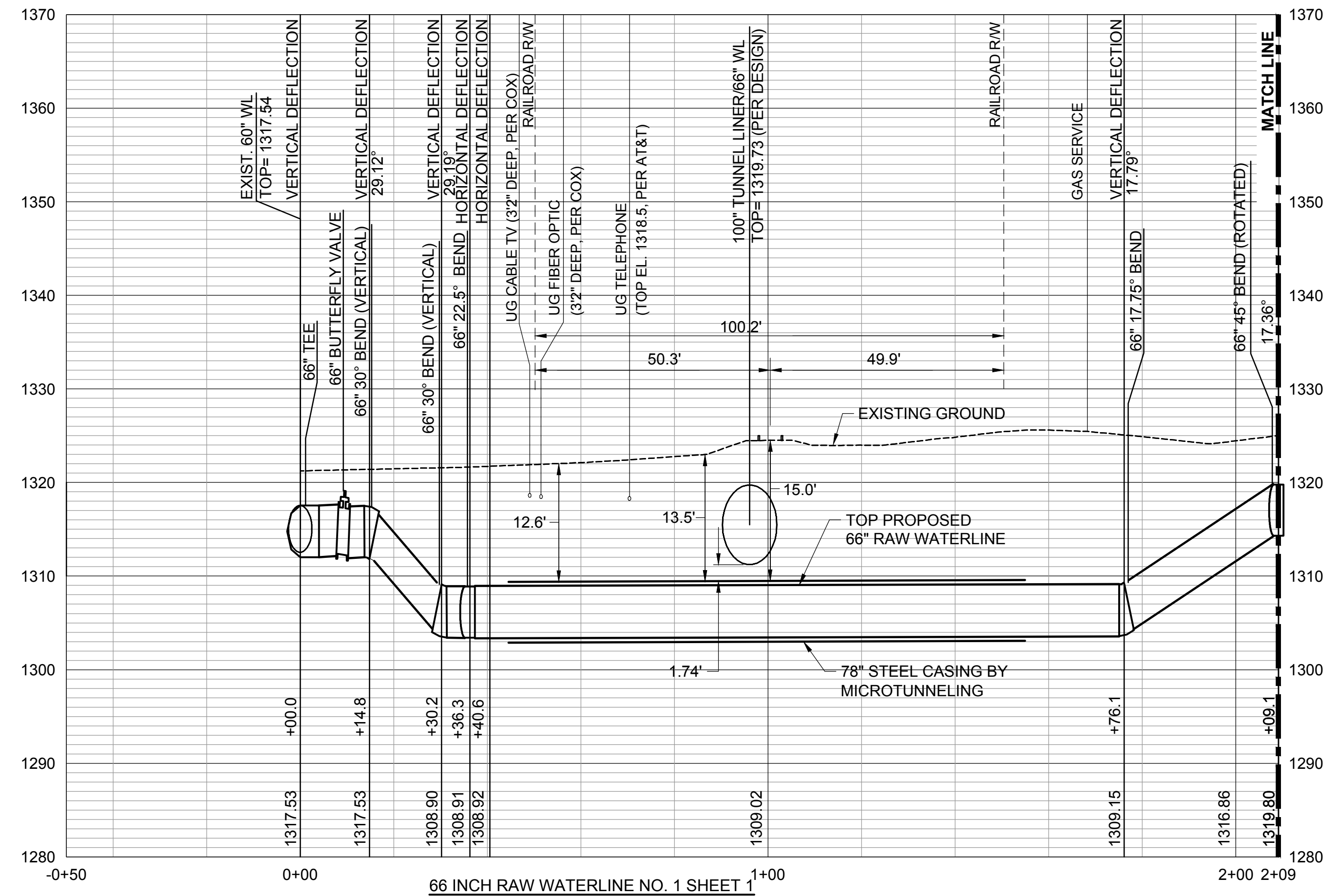
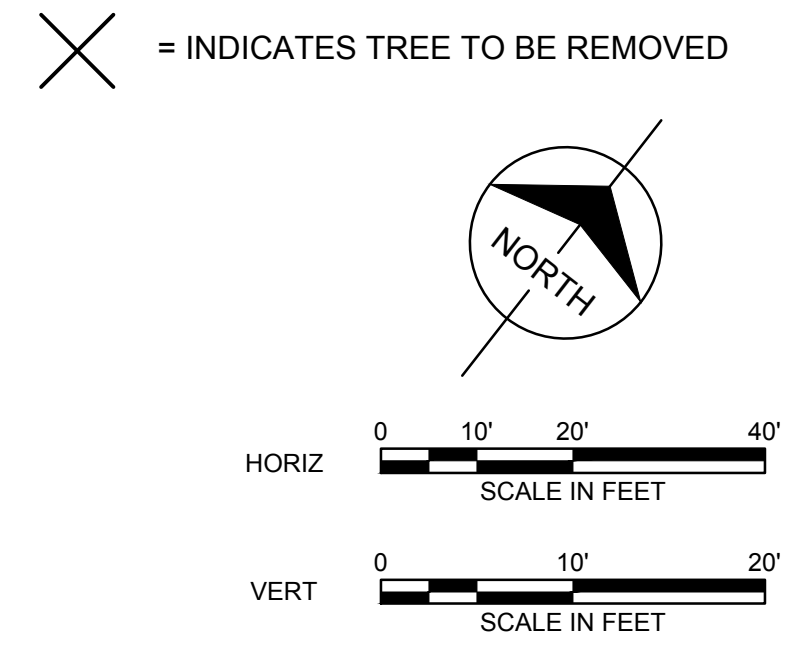
* INSTALL 66" X 60" ECCENTRIC REDUCER (MATCH TOP
 OF PIPES), 60" PIPE, AND CONNECT TO EXISTING.
 REMOVE EXISTING PIPE AT JOINT. CONNECTION TO
 EXISTING PIPE SHALL BE MADE WITH MJPE X
 BELL/SPIGOT. FOR STEEL PIPE CONNECTION, A STEEL
 PE X BELL/SPIGOT ADAPTER WITH A BUTT STRAP
 WELDED TO ADAPTER AND TO THE STEEL PIPE SHALL
 BE USED. CONTRACTOR SHALL VERIFY EXISTING PIPE
 AND JOINT LOCATIONS BEFORE ORDERING MATERIALS.



CATHODIC PROTECTION TEST STATIONS
 STA 0+00 INSULATING JOINT TEST STATION
 STA 0+50 CASING TEST STATION
 STA 1+60 CASING TEST STATION

REF. SHEETS **050C504** THROUGH **050C508** FOR
 CATHODIC PROTECTION SYSTEM DETAILS.

CASING TEST STATION
 INSULATING JOINT TEST STATION



WATERLINE WARNING SIGN DETAIL
 NOT TO SCALE

NOTE:
 DEPTH TO TOP OF PIPELINE TO BE
 INSERTED ON SIGN BASED ON THE
 PIPELINE DEPTH AT EACH SIGN'S
 LOCATION.



no.	date	by	ckd	description
0	11/12/21	CSL	TBK	PACKAGE 4: ISSUED FOR CONSTRUCTION
1	4/5/22	CSL	TBK	REVISED TO SHOW TESTING STATIONS
	4/5/22	CSL	TBK	PACKAGE 4: ISSUED FOR CONSTRUCTION
2	5/6/22	CSL	TBK	REVISED PER DCN 30
	5/6/22	CSL	TBK	PACKAGE 4: ISSUED FOR CONSTRUCTION

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 303 SOUTH TOPEKA WICHITA, KS 67202
 316-262-2691 www.pec1.com
 LICENSE NO. E-310

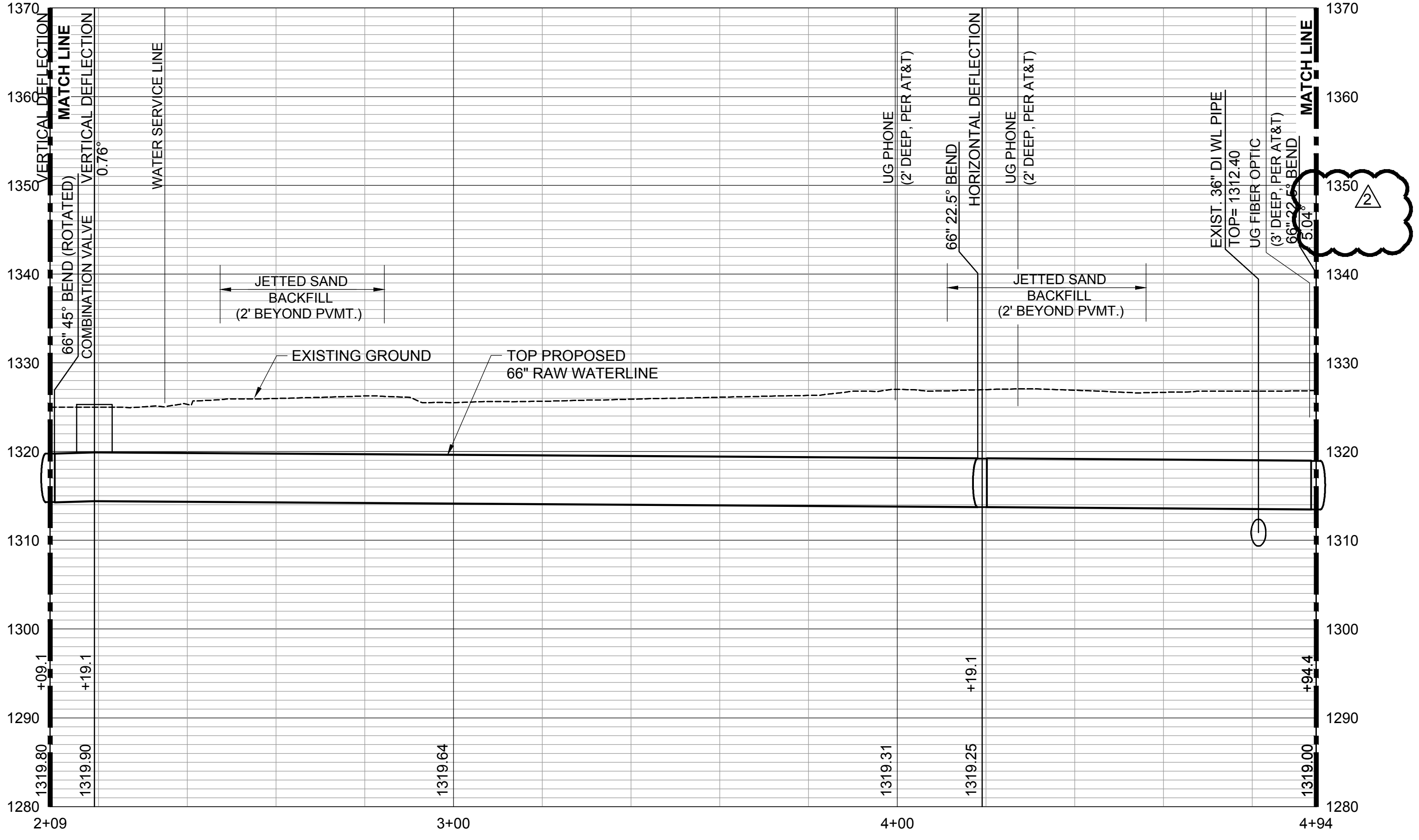
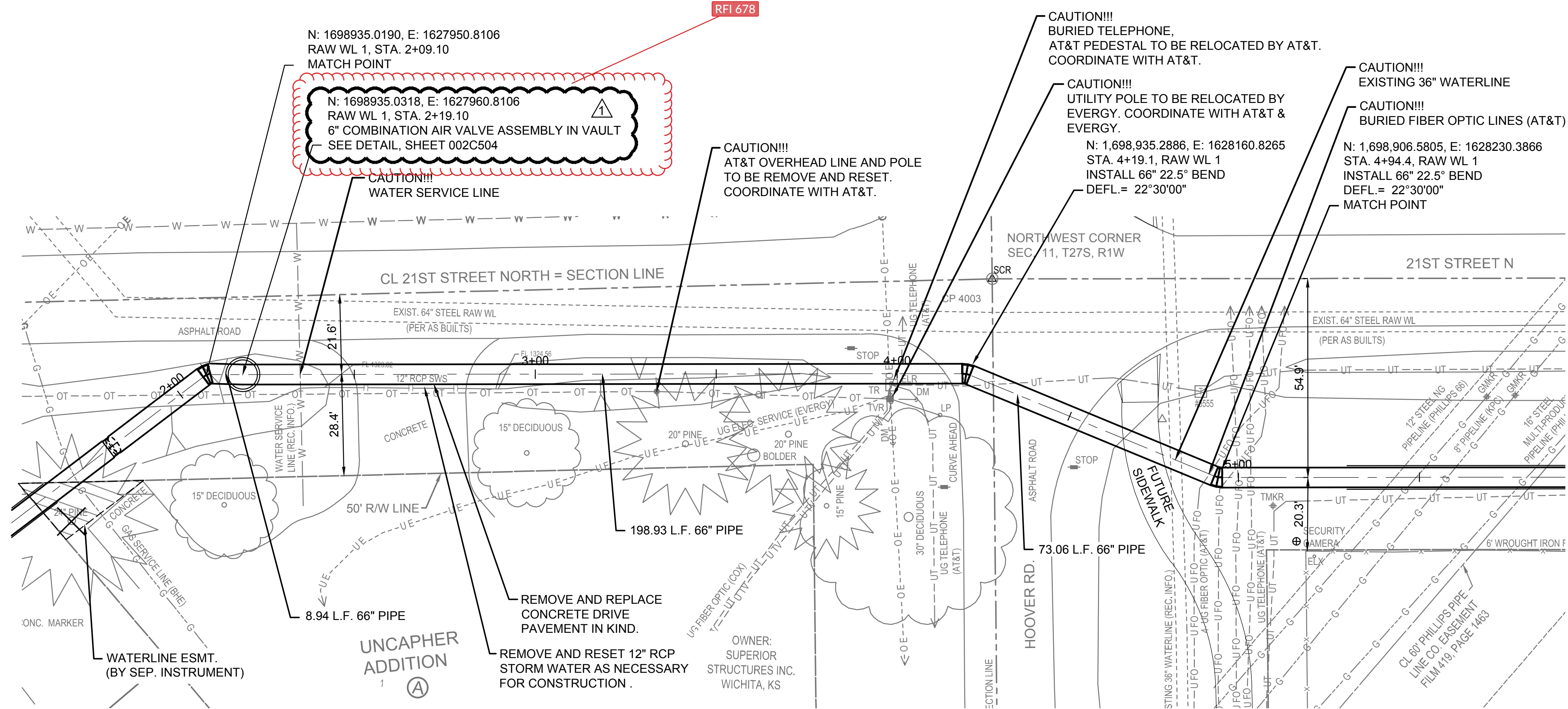
date	APRIL 6, 2020	detailed	C. LINK
designed	T. KAUFMAN	checked	R. GLESSNER

CITY OF WICHITA

SEDGWICK COUNTY, KANSAS

NORTHWEST WATER TREATMENT FACILITY
 SITE - CIVIL
 66 INCH RAW WATERLINE NO. 1 SHEET 1

project	114461	contract	
drawing	050C401	rev.	2
sheet	of	sheets	
file	171350-009-050C401.dwg		



no.	date	by	ckd	description
0	11/12/21	CSL	TBK	PACKAGE 4: ISSUED FOR CONSTRUCTION
1	12/15/21	CSL	TBK	AIR VALVE SIZE ADDED
	12/15/21	CSL	TBK	ISSUED FOR CONSTRUCTION
2	6/17/22	CSL	TBK	REVISED PER DCN 48
	6/17/22	CSL	TBK	PACKAGE 4: ISSUED FOR CONSTRUCTION



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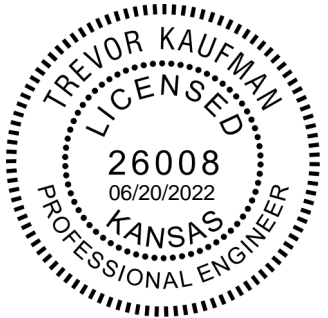
date	APRIL 6, 2020	detailed	C. LINK
designed	T. KAUFMAN	checked	R. GLESSNER

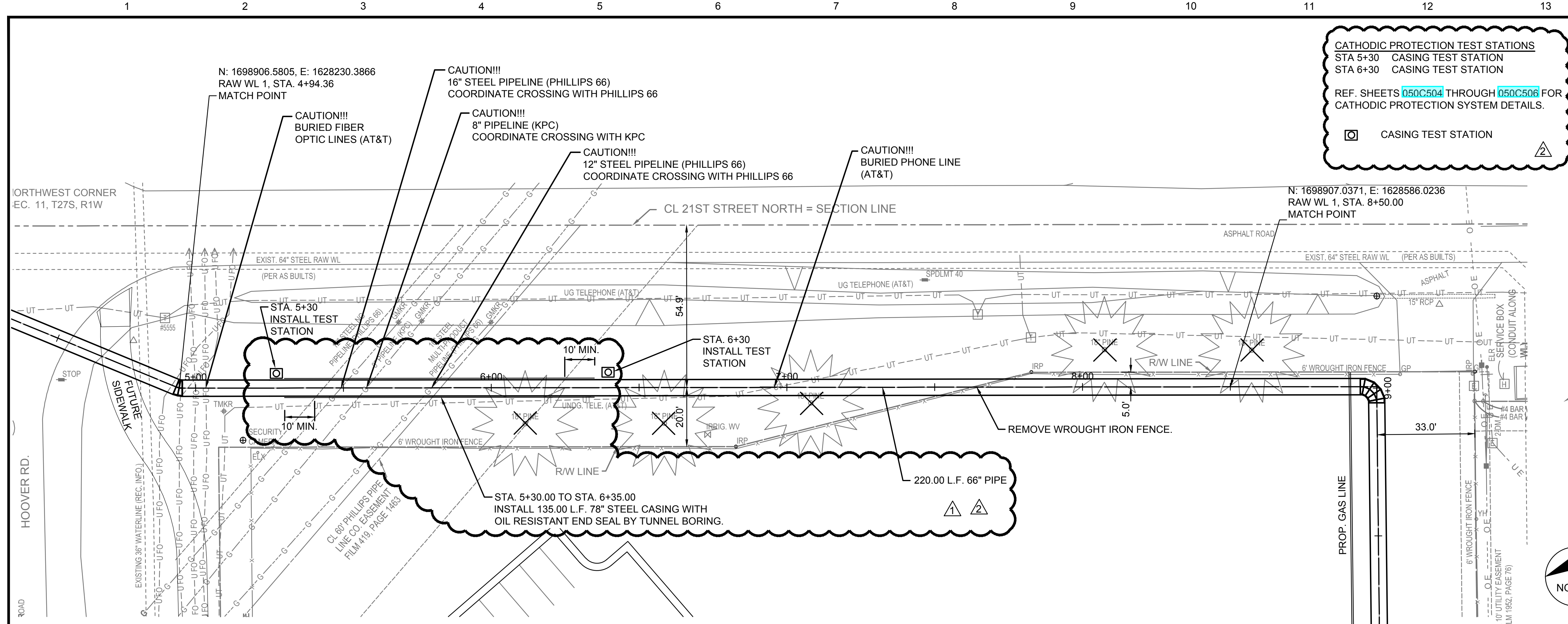


SEDGWICK COUNTY, KANSAS

NORTHWEST WATER TREATMENT FACILITY
 SITE - CIVIL
 66 INCH RAW WATERLINE NO. 1 SHEET 2

project	114461	contract	
drawing	050C402	rev.	2
sheet	of	sheets	
file	171350-009-050C402.dwg		



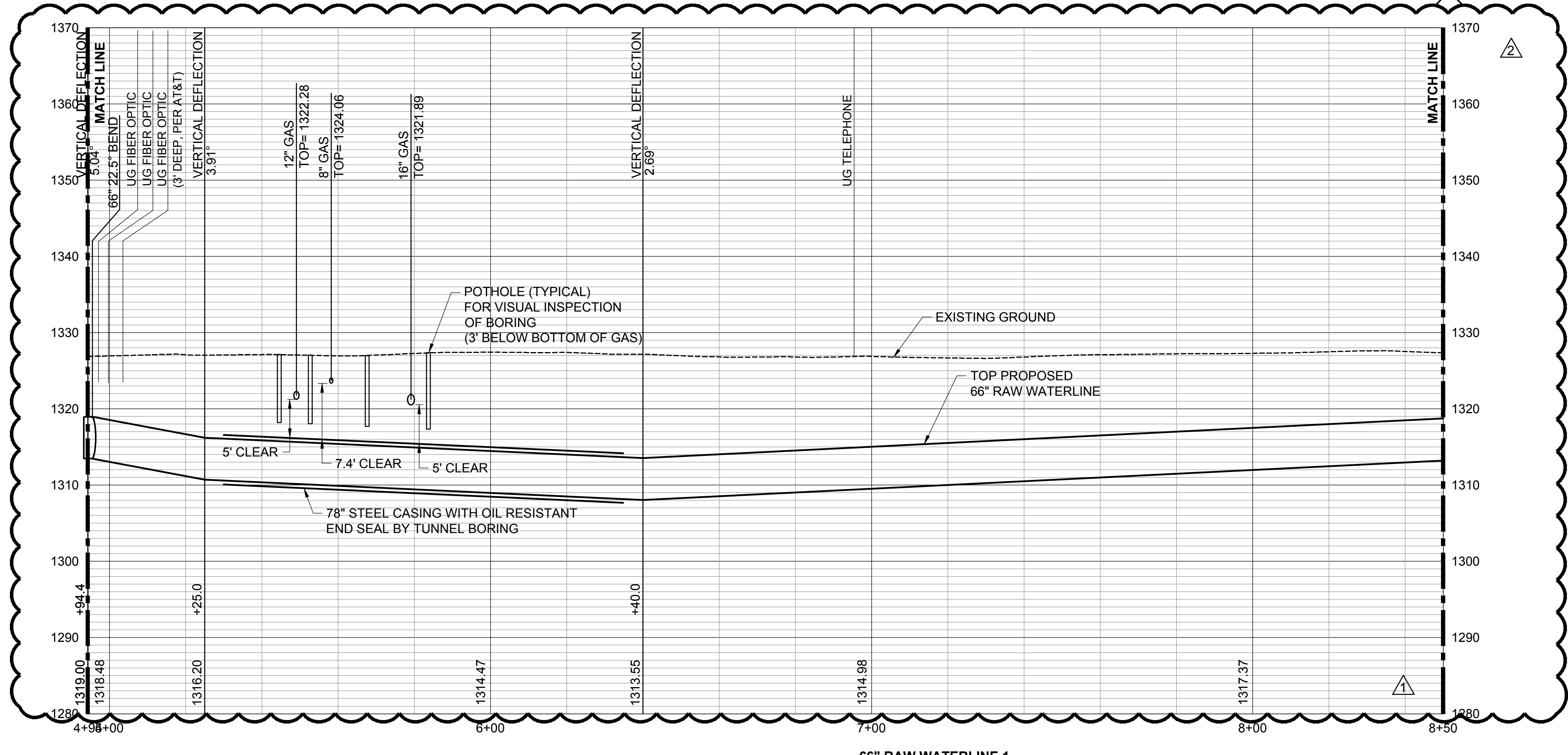


CATHODIC PROTECTION TEST STATIONS
 STA 5+30 CASING TEST STATION
 STA 6+30 CASING TEST STATION

REF. SHEETS 050C504 THROUGH 050C506 FOR CATHODIC PROTECTION SYSTEM DETAILS.

☐ CASING TEST STATION

no.	date	by	ckd	description
0	11/12/21	CSL	TBK	PACKAGE 4: ISSUED FOR CONSTRUCTION
1	1/18/22	CSL	TBK	REVISED PER KDHE COMMENTS
	1/18/22	CSL	TBK	PACKAGE 4: ISSUED FOR CONSTRUCTION
2	6/17/22	CSL	TBK	REVISED PER DCN 48
	6/17/22	CSL	TBK	PACKAGE 4: ISSUED FOR CONSTRUCTION



HORIZ SCALE IN FEET
 0 10' 20' 40'

VERT SCALE IN FEET
 0 10' 20'

ELEVATIONS SHOWN ARE TOP OF PIPE, UNLESS NOTED OTHERWISE.



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 LICENSE NO. E-310

date APRIL 6, 2020	detailed C. LINK
designed T. KAUFMAN	checked R. GLESSNER

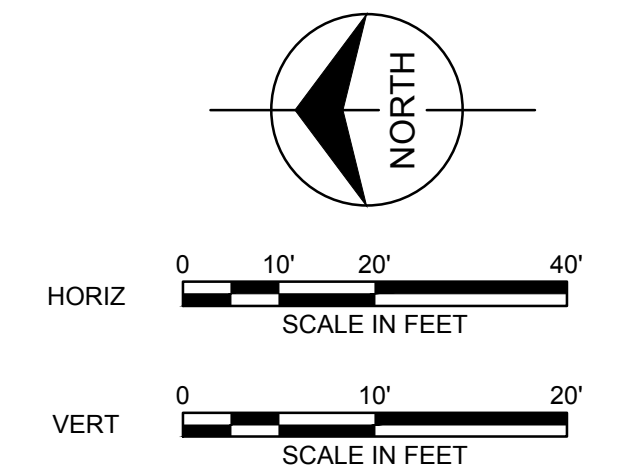
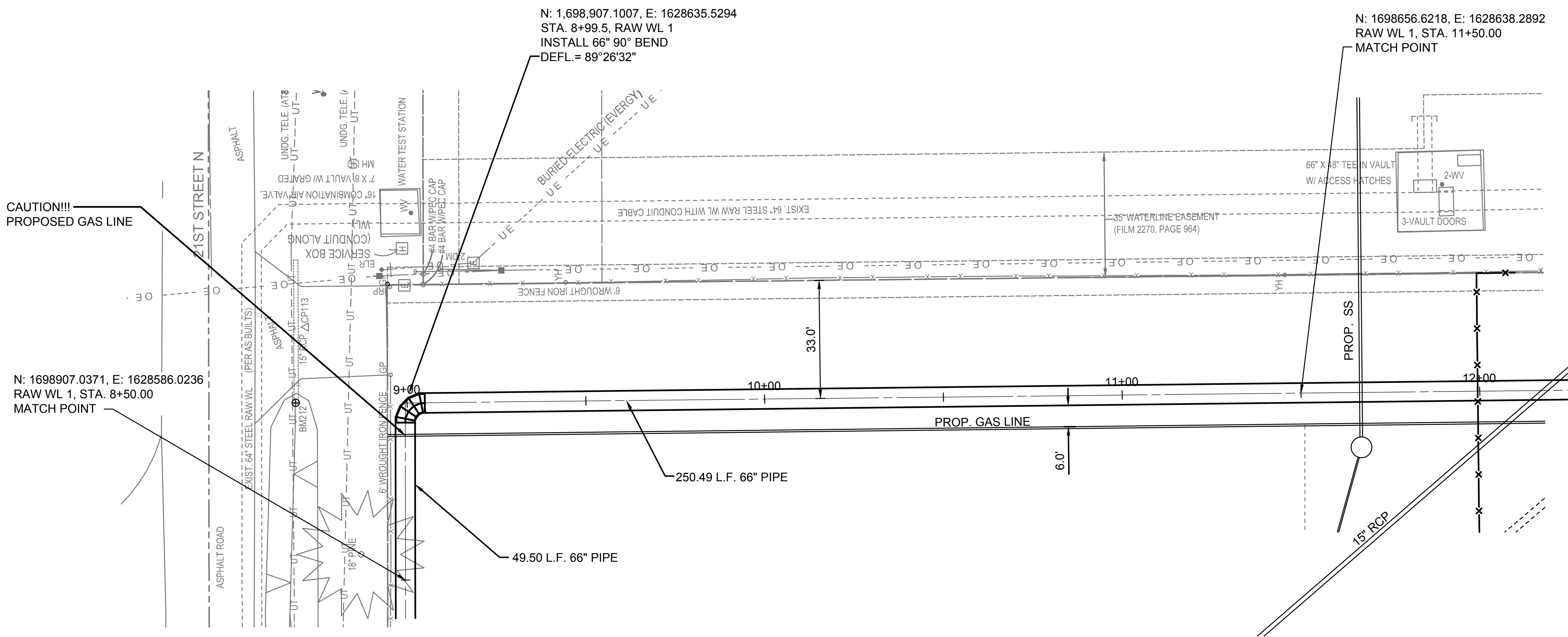


SEDGWICK COUNTY, KANSAS

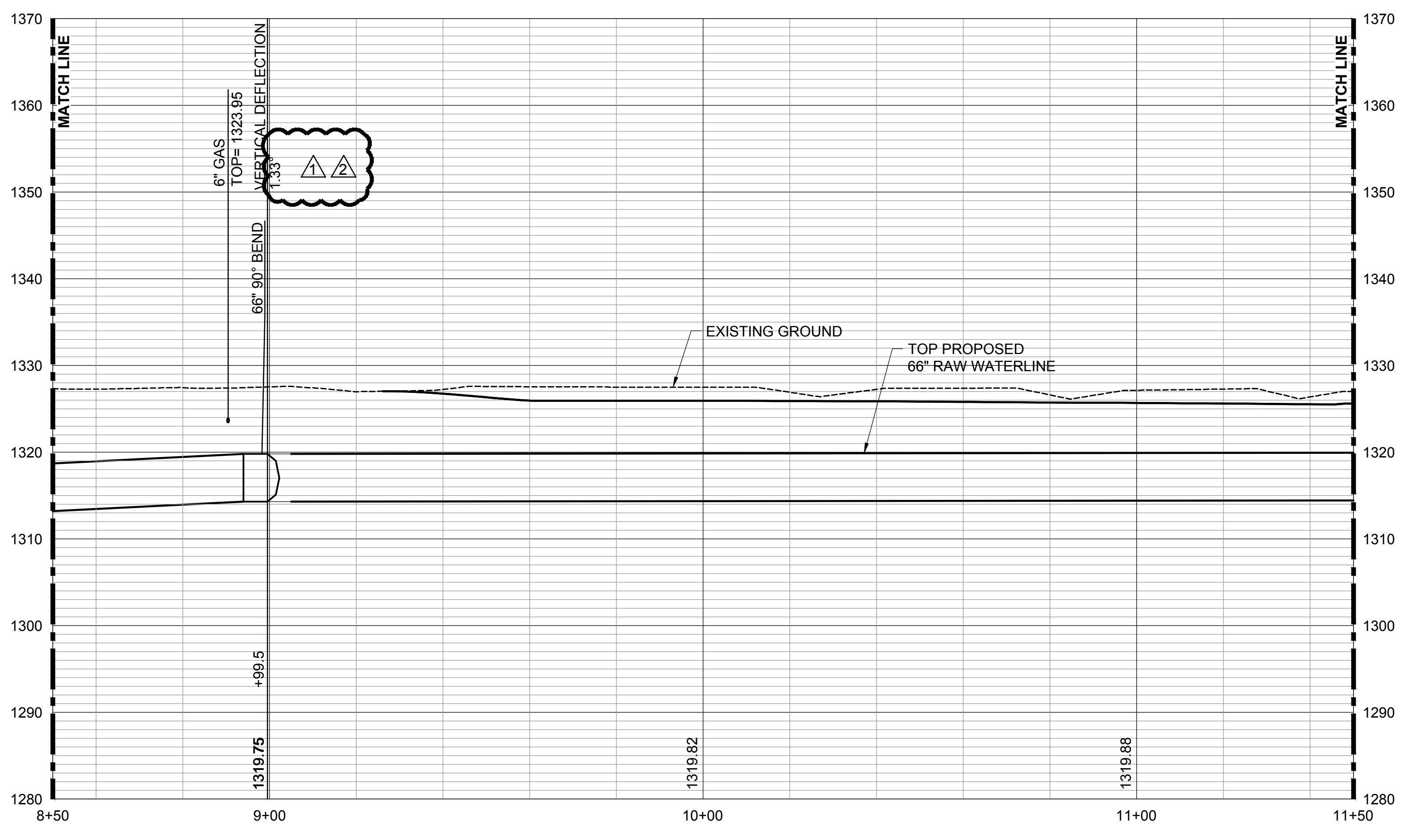
NORTHWEST WATER TREATMENT FACILITY
 SITE - CIVIL
 66 INCH RAW WATERLINE NO. 1 SHEET 3

project 114461	contract
drawing 050C403	rev. 2
sheet of	sheets
file 171350-009-050C403.dwg	





ELEVATIONS SHOWN ARE TOP OF PIPE, UNLESS NOTED OTHERWISE.



66" RAW WATERLINE 1

no.	date	by	ckd	description
0	11/12/21	CSL	TBK	PACKAGE 4: ISSUED FOR CONSTRUCTION
1	1/18/22	CSL	TBK	REVISED PER KDHE COMMENTS
	1/18/22	CSL	TBK	PACKAGE 4: ISSUED FOR CONSTRUCTION
2	6/17/22	CSL	TBK	REVISED PER DCN 48
	6/17/22	CSL	TBK	PACKAGE 4: ISSUED FOR CONSTRUCTION



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date	APRIL 6, 2020	detailed	C. LINK
designed	T. KAUFMAN	checked	R. GLESSNER

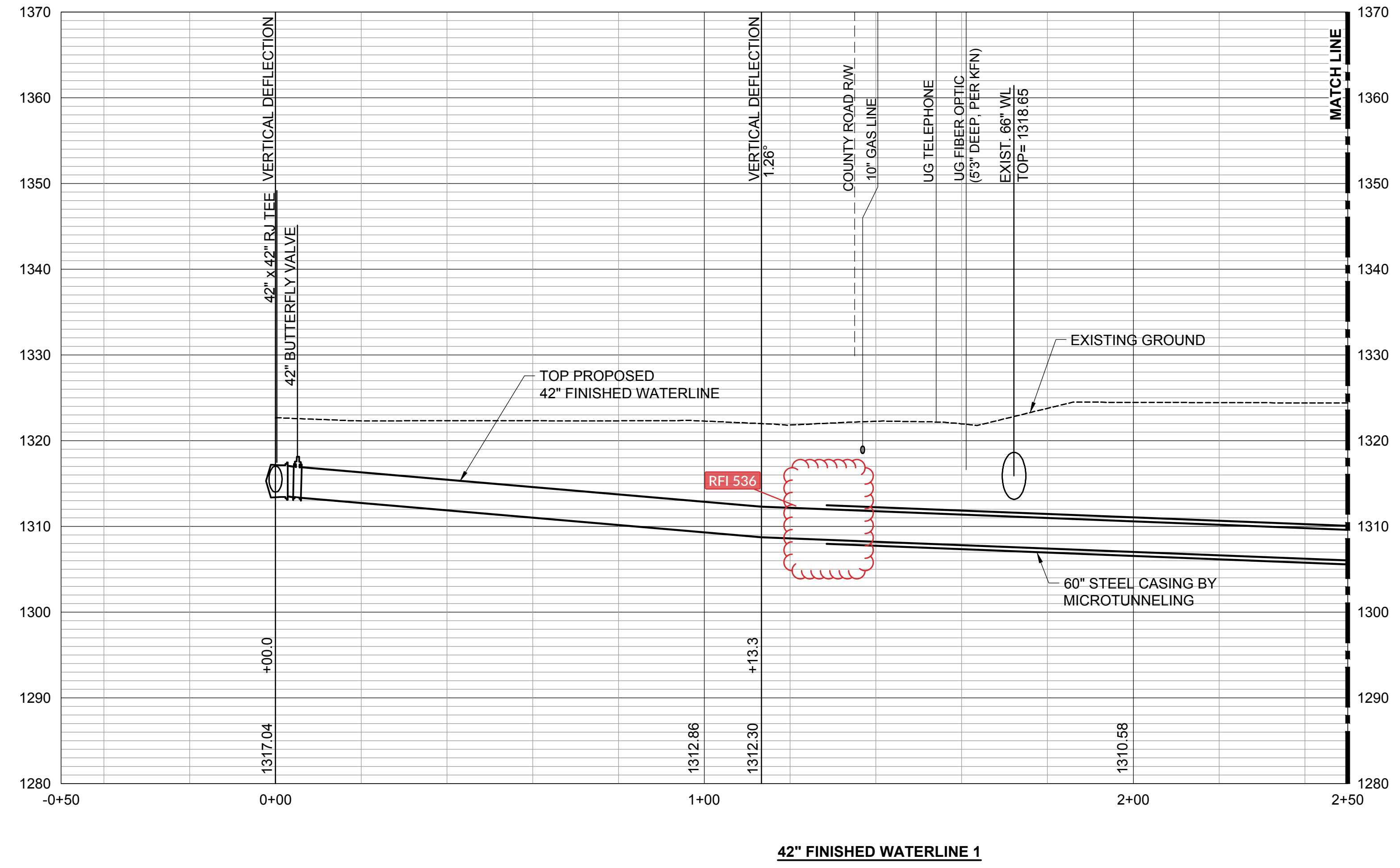
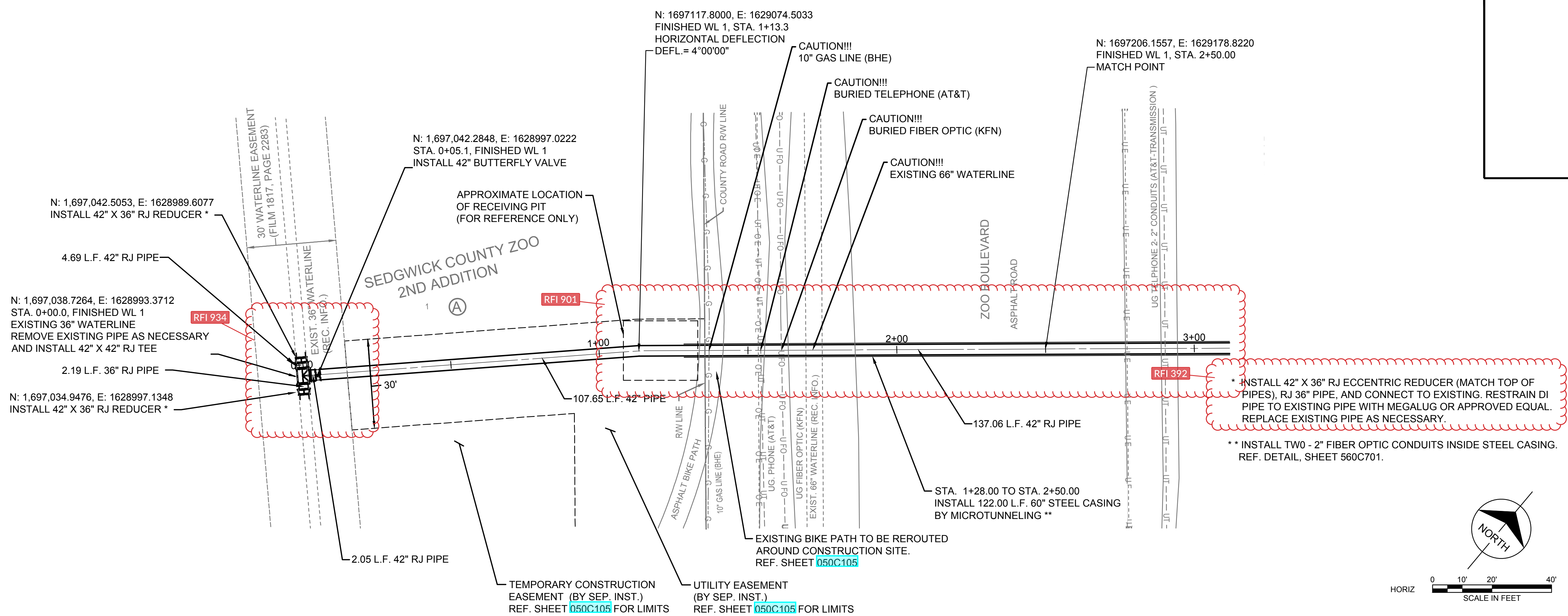


SEDGWICK COUNTY, KANSAS

NORTHWEST WATER TREATMENT FACILITY
 SITE - CIVIL
 66 INCH RAW WATERLINE NO. 1 SHEET 4

project	114461	contract	
drawing	050C404	rev.	2
sheet	of	sheets	
file	171350-009-050C404.dwg		





* INSTALL 42" X 36" RJ ECCENTRIC REDUCER (MATCH TOP OF PIPES), RJ 36" PIPE, AND CONNECT TO EXISTING. RESTRAIN DI PIPE TO EXISTING PIPE WITH MEGALUG OR APPROVED EQUAL. REPLACE EXISTING PIPE AS NECESSARY.

** INSTALL TW0 - 2" FIBER OPTIC CONDUITS INSIDE STEEL CASING. REF. DETAIL, SHEET 560C701.

NORTH

HORIZ SCALE IN FEET
0 10' 20' 40'

VERT SCALE IN FEET
0 10' 20'

ELEVATIONS SHOWN ARE TOP OF PIPE, UNLESS NOTED OTHERWISE.

no.	date	by	ckd	description
0	11/12/21	CSL	TBK	PACKAGE 4: ISSUED FOR CONSTRUCTION

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LICENSE NO. E-310

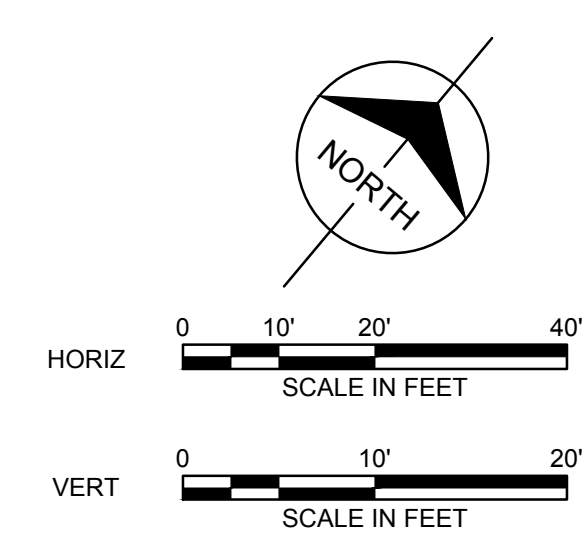
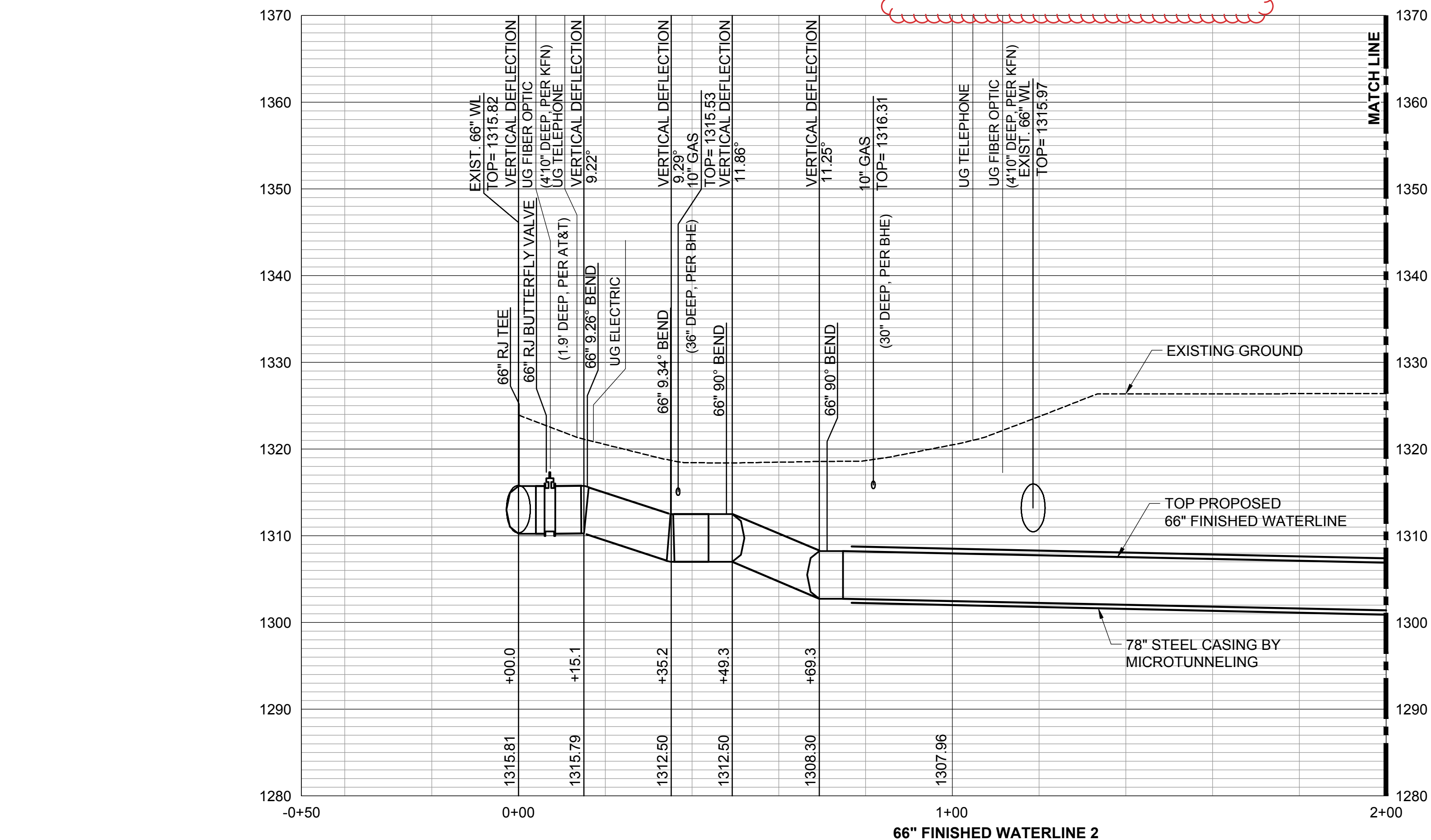
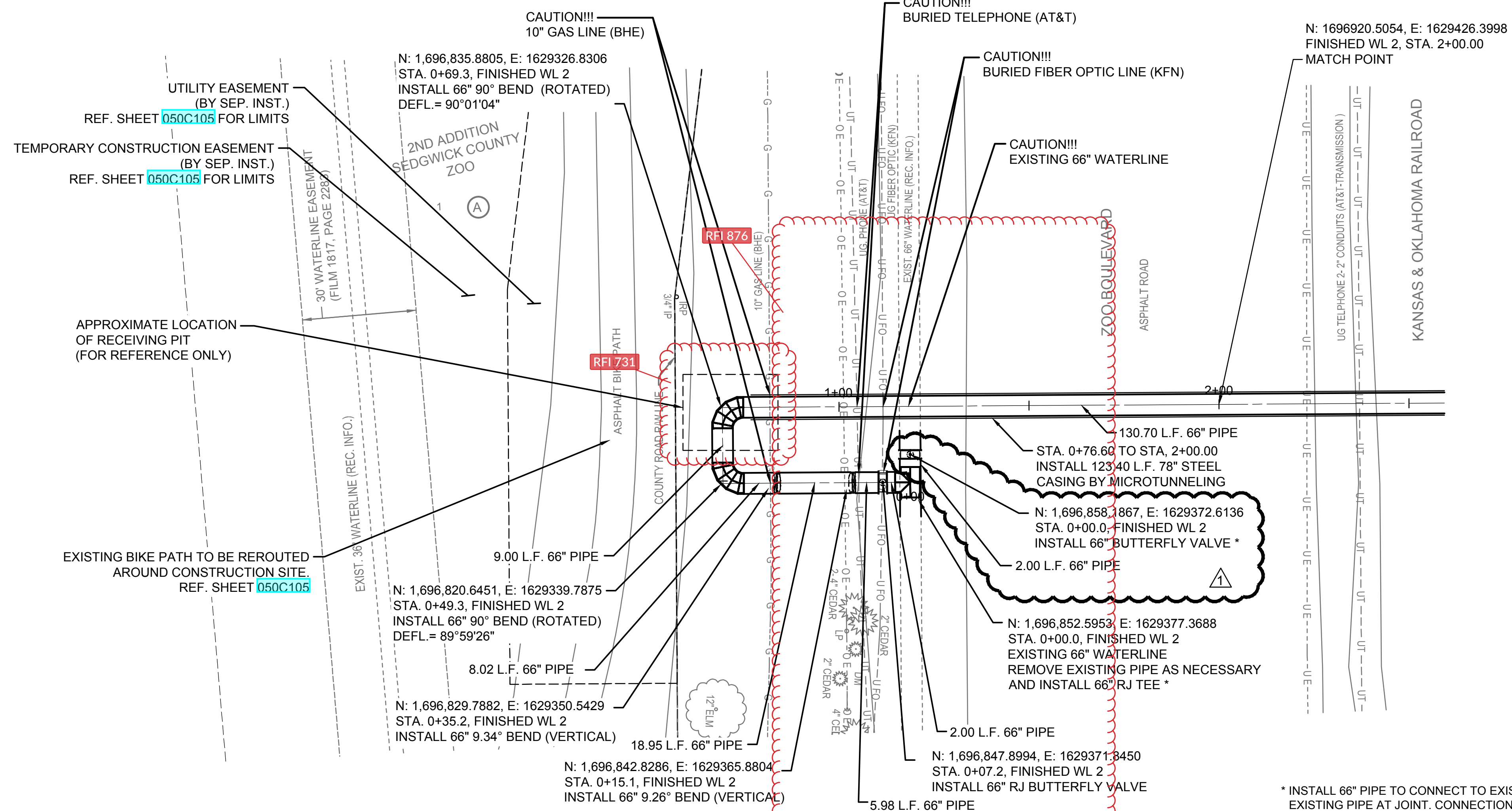
date APRIL 6, 2020	detailed C. LINK
designed T. KAUFMAN	checked R. GLESSNER

WICHITA
CITY OF WICHITA

SEDGWICK COUNTY, KANSAS
NORTHWEST WATER TREATMENT FACILITY
SITE - CIVIL
42 INCH FINISHED WATERLINE NO. 1
SHEET 1

project 114461	contract
drawing 050C406	rev. 0
sheet	of sheets
file 171350-009-050C406.dwg	





* INSTALL 66" PIPE TO CONNECT TO EXISTING. REMOVE EXISTING PIPE AT JOINT. CONNECTION TO EXISTING PIPE SHALL BE MADE WITH MJPE x BELL/SPIGOT. FOR STEEL PIPE CONNECTION, A STEEL PE x BELL/SPIGOT ADAPTER WITH A BUTT STRAP WELDED TO ADAPTER AND TO THE STEEL SHALL BE USED. CONTRACTOR SHALL VERIFY EXISTING PIPE AND JOINT LOCATIONS BEFORE ORDERING MATERIALS.

ELEVATIONS SHOWN ARE TOP OF PIPE, UNLESS NOTED OTHERWISE.

no.	date	by	ckd	description
0	11/12/21	CSL	TBK	PACKAGE 4: ISSUED FOR CONSTRUCTION
1	5/6/22	CSL	TBK	REVISED PER DCN 30
	5/6/22	CSL	TBK	PACKAGE 4: ISSUED FOR CONSTRUCTION

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316-262-2691 www.pec1.com
LICENSE NO. E-310

date APRIL 6, 2020	detailed C. LINK
designed T. KAUFMAN	checked R. GLESSNER

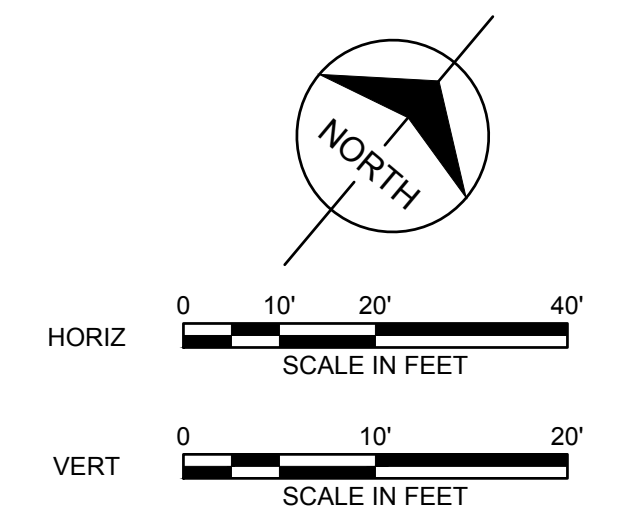
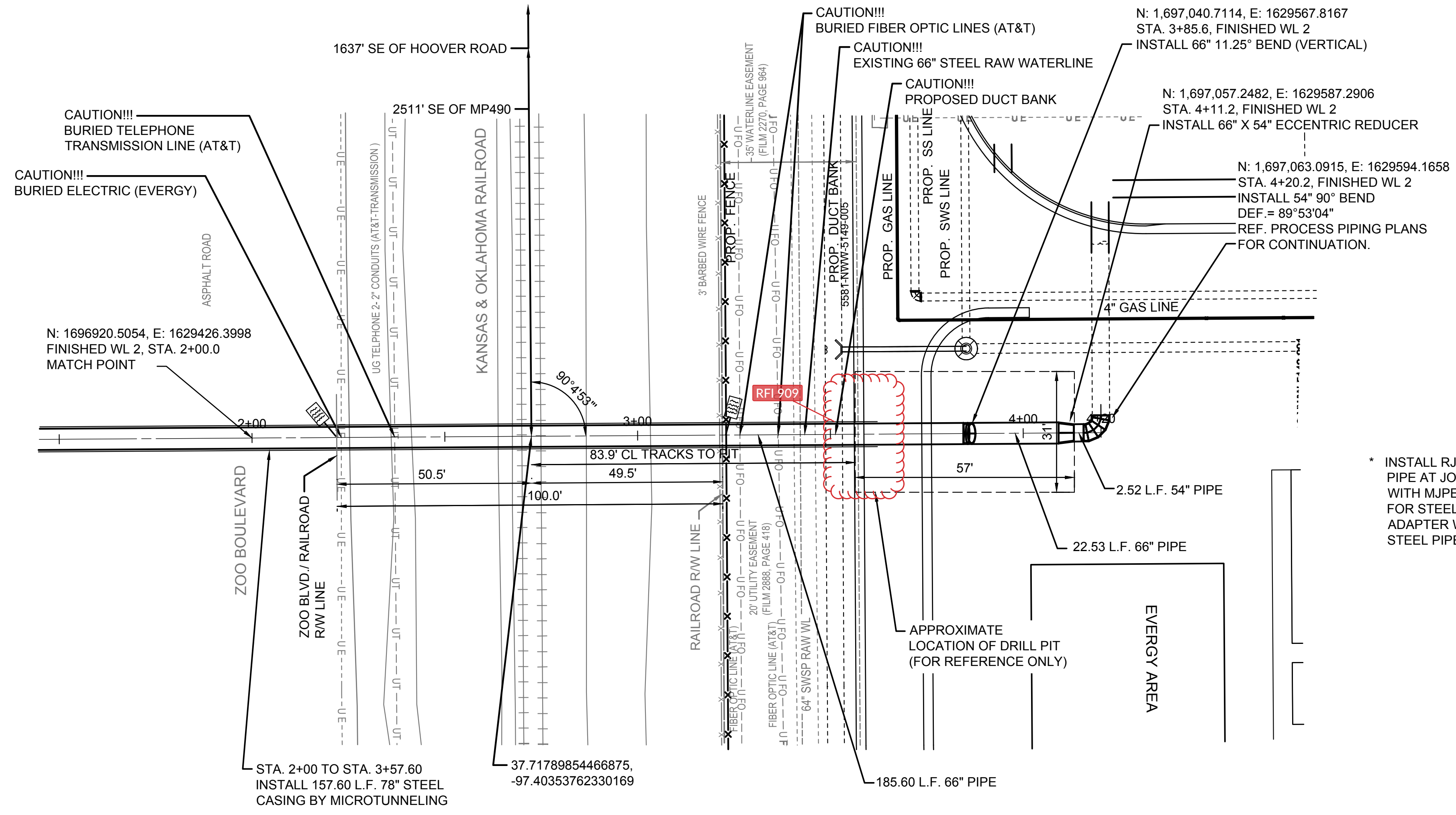


SEDGWICK COUNTY, KANSAS

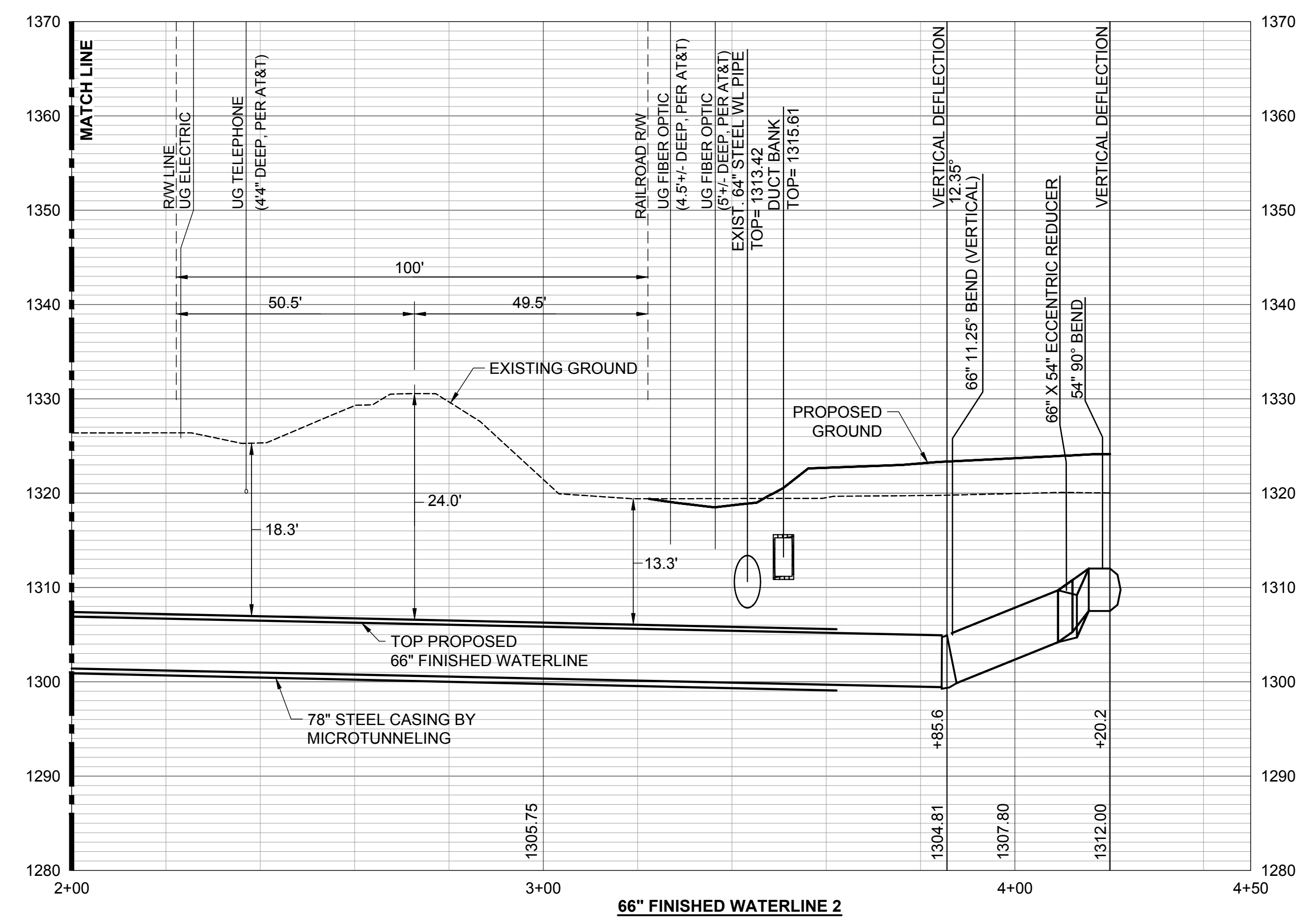
NORTHWEST WATER TREATMENT FACILITY
SITE - CIVIL
66 INCH FINISHED WATERLINE NO. 2
SHEET 1

project 114461	contract
drawing 050C408	rev. - 1
sheet	of sheets
file 171350-009-050C408.dwg	





* INSTALL RJ 66" PIPE AND CONNECT TO EXISTING. REMOVE EXISTING PIPE AT JOINT. CONNECTION TO EXISTING PIPE SHALL BE MADE WITH MJPE X BELL/SPIGOT. FOR STEEL PIPE CONNECTION, A STEEL PE X BELL/SPIGOT ADAPTER WITH A BUTT STRAP WELDED TO ADAPTER AND TO THE STEEL PIPE SHALL BE USED



ELEVATIONS SHOWN ARE TOP OF PIPE, UNLESS NOTED OTHERWISE.

DESIGNATES LOCATION OF WATERLINE WARNING SIGN. (2 REQUIRED THIS SHEET) SEE [DETAIL](#), [050C401](#).

no.	date	by	ckd	description
0	11/12/21	CSL	TBK	PACKAGE 4: ISSUED FOR CONSTRUCTION

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WATER PARTNERS

PEC

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
303 SOUTH TOPEKA WICHITA, KS 67202
316-262-2691 www.pec1.com
LICENSE NO. E-310

date APRIL 6, 2020	detailed
designed T. KAUFMAN	checked R. GLESSNER

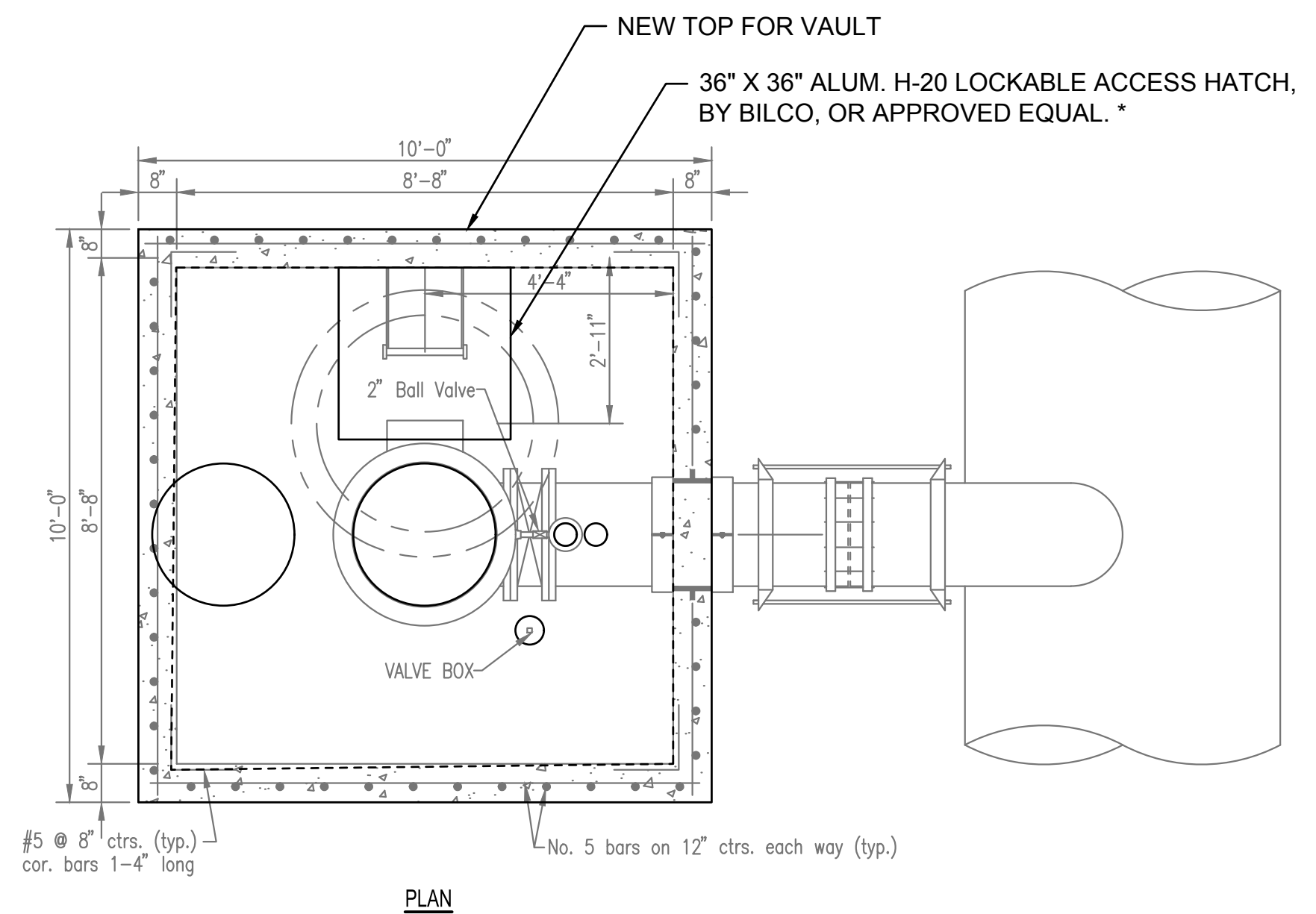


SEDGWICK COUNTY, KANSAS

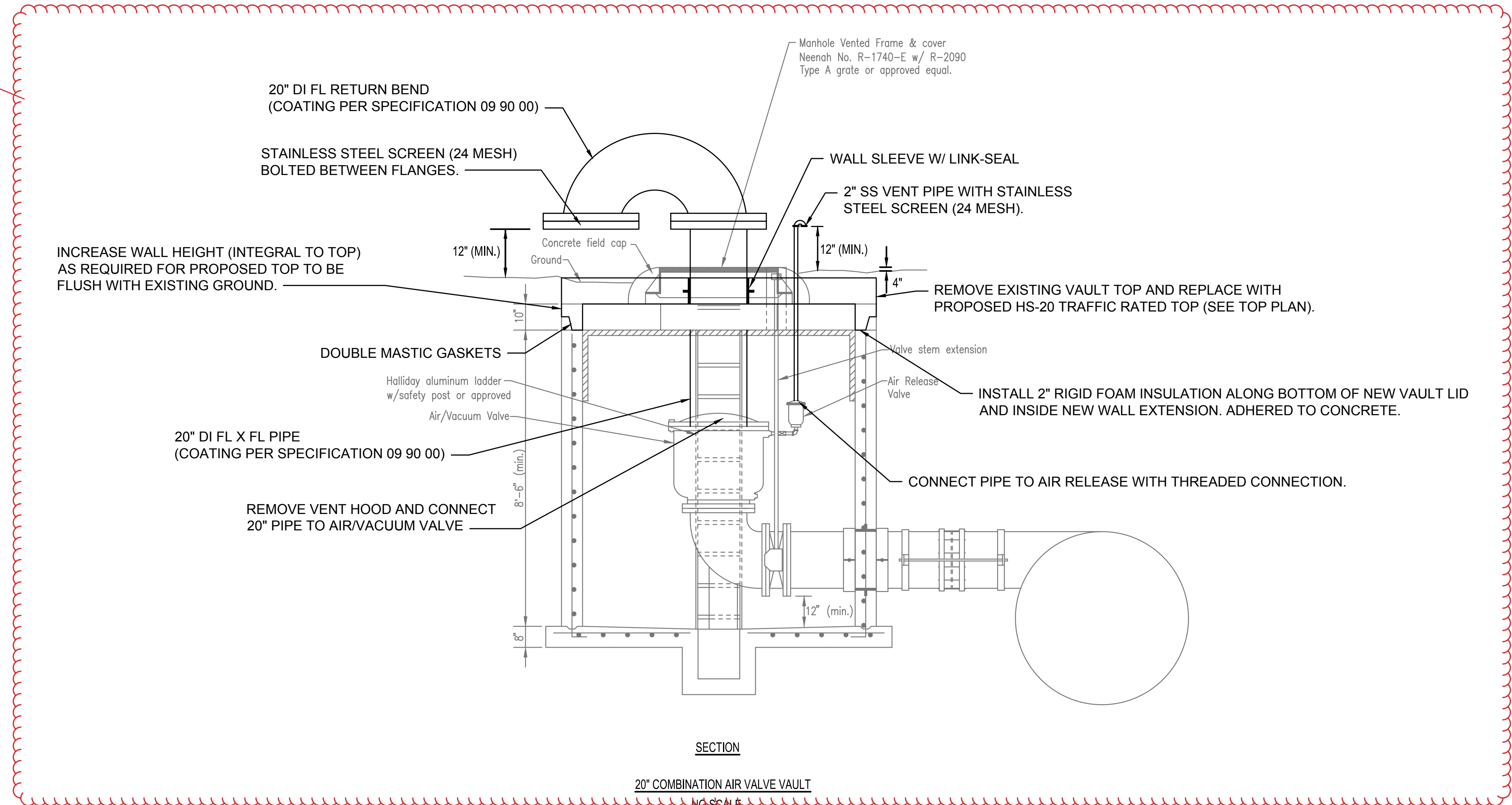
NORTHWEST WATER TREATMENT FACILITY
SITE - CIVIL
66 INCH FINISHED WATERLINE NO. 2
SHEET 2

project 114461	contract
drawing 050C409	rev. 0
sheet	of sheets
file 171350-009-050C409.dwg	





PLAN



SECTION

20" COMBINATION AIR VALVE VAULT

NO SCALE

RFI 762

no.	date	by	ckd	description
0	11/12/21	CSL	TBK	PACKAGE 4: ISSUED FOR CONSTRUCTION



PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
 303 SOUTH TOPEKA WICHITA, KS 67202
 316-262-2691 www.pec1.com
 LICENSE NO. E-310

date	APRIL 6, 2020	detailed	C. LINK
designed	T. KAUFMAN	checked	R. GLESSNER

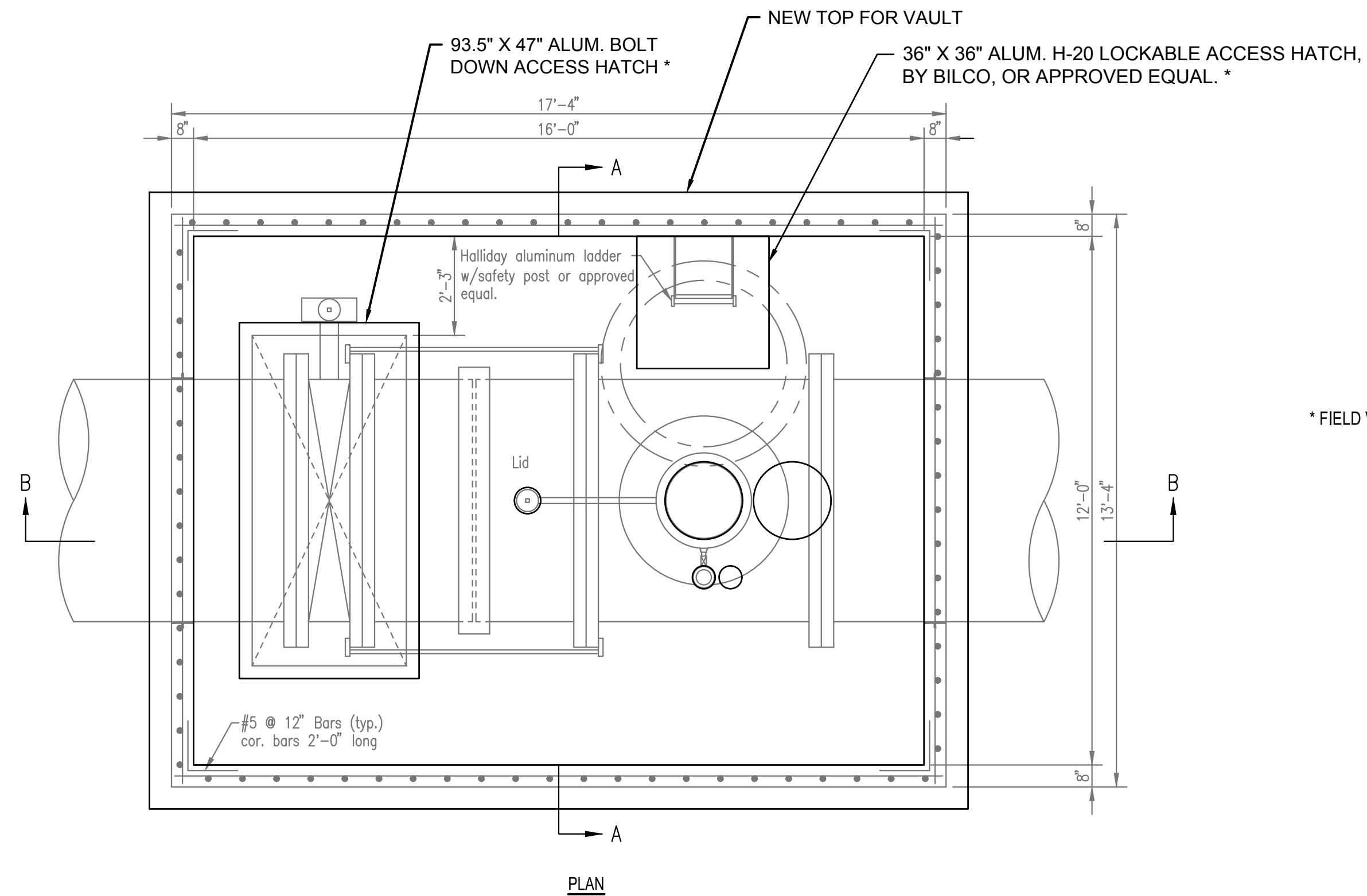


SEDGWICK COUNTY, KANSAS

NORTHWEST WATER TREATMENT FACILITY
 SITE - CIVIL
 OFF-SITE AIR RELEASE ADJUSTMENT
 DETAILS SHEET 2

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drawing	050C502	rev.	F
sheet	of	sheets	
file	171350-009-050C502.dwg		

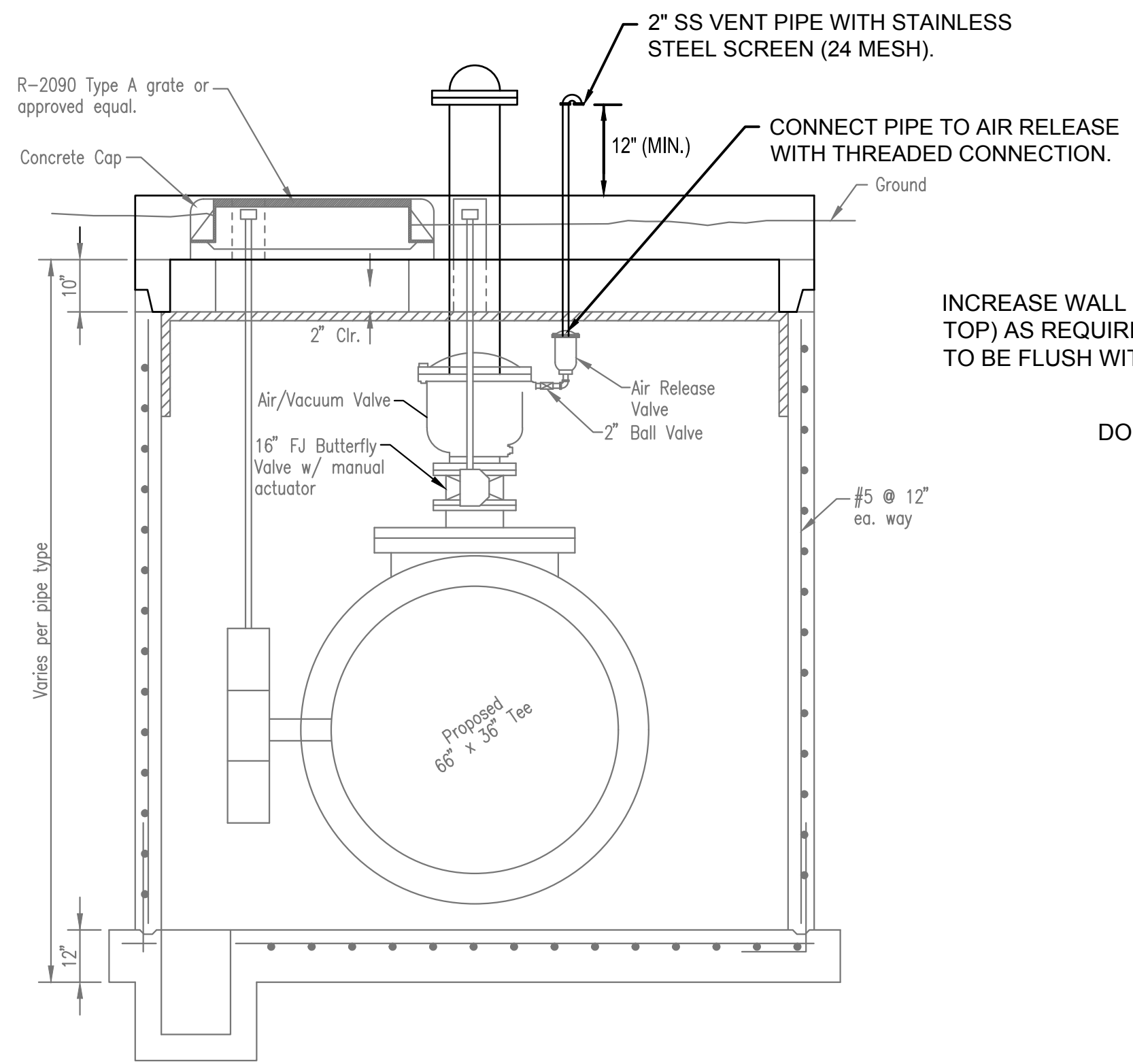




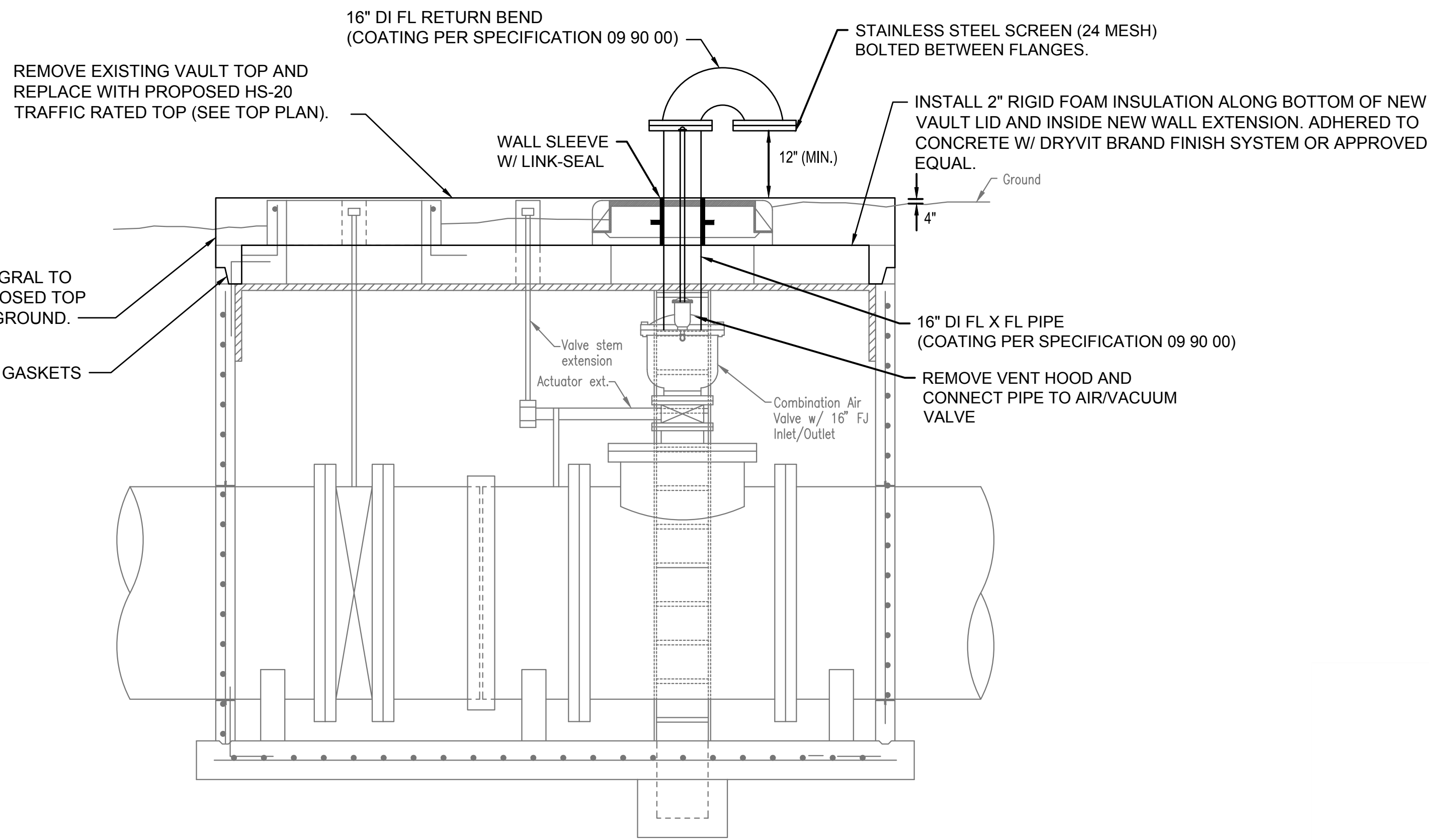
* FIELD VERIFY TOP OPENING LOCATION

no.	date	by	ckd	description
0	11/12/21	CSL	TBK	PACKAGE 4: ISSUED FOR CONSTRUCTION

RFI 762



SECTION A-A



SECTION B-B

16\"/>



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 316-262-2691 www.pec1.com
 LICENSE NO. E-310

date APRIL 6, 2020	detailed C. LINK
designed T. KAUFMAN	checked R. GLESSNER

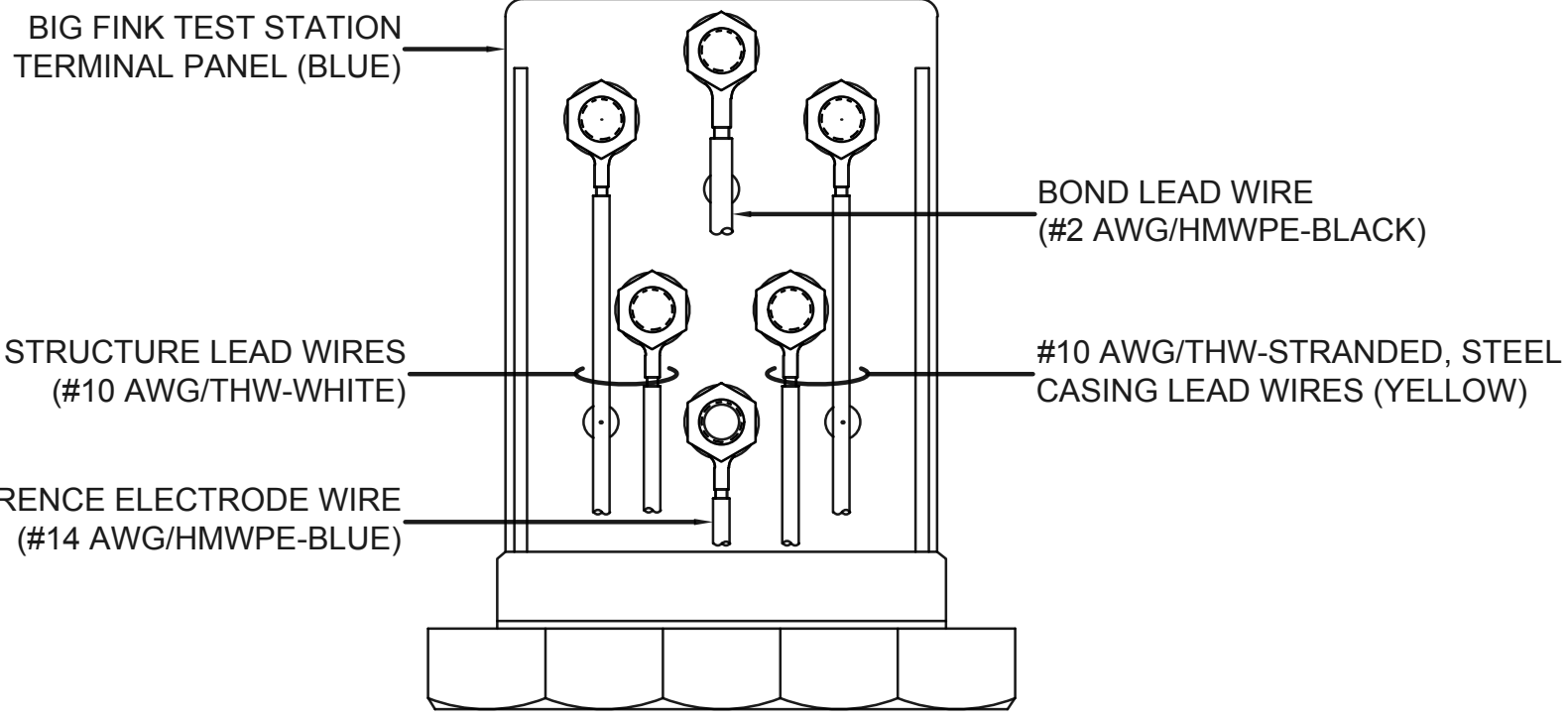


SEDGWICK COUNTY, KANSAS

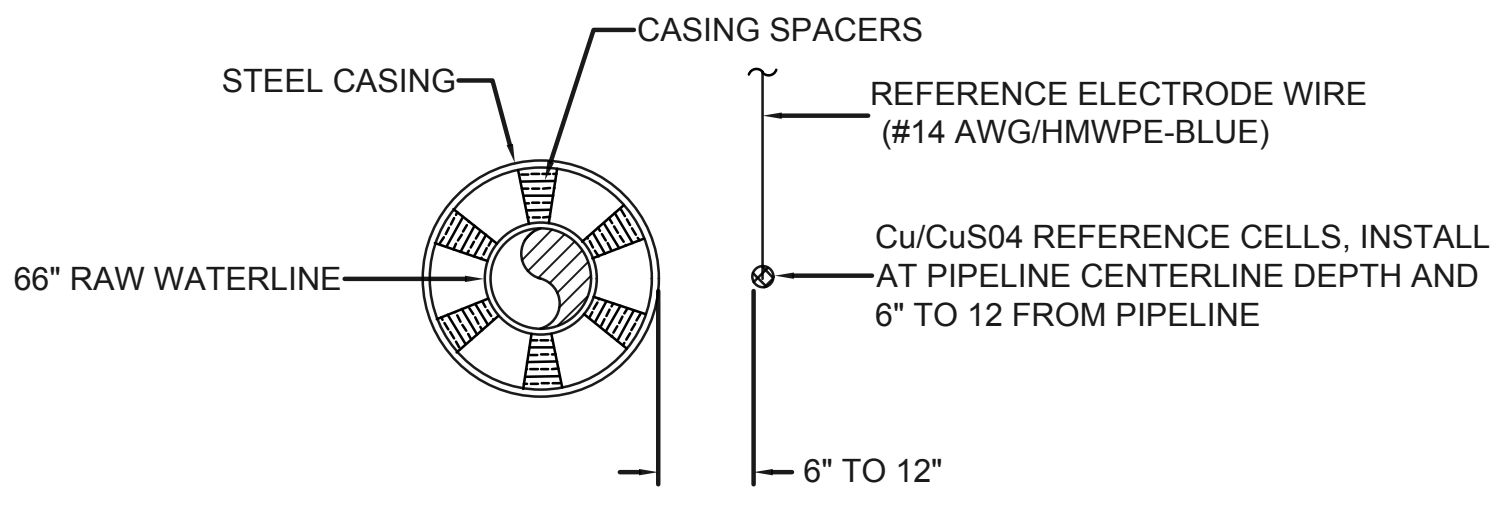
NORTHWEST WATER TREATMENT FACILITY
 SITE - CIVIL
 OFF-SITE AIR RELEASE ADJUSTMENT
 DETAILS SHEET 3

project 114461	contract
drawing 050C503	rev. F
sheet	of sheets
file 171350-009-050C503.dwg	

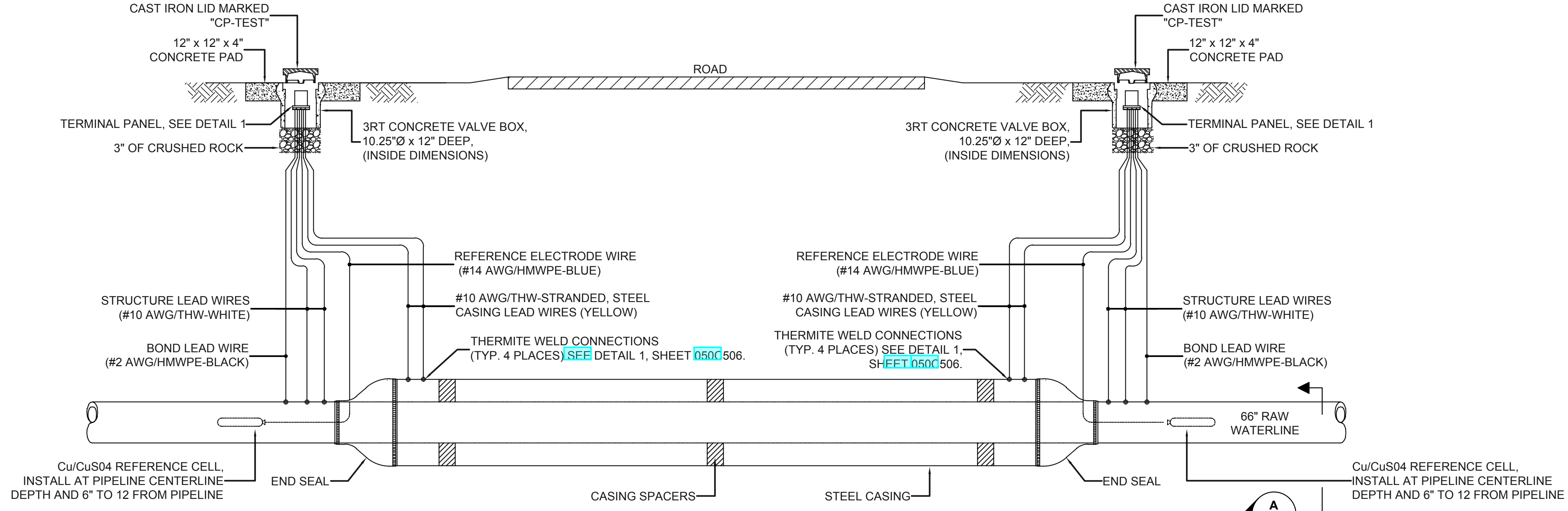




TERMINAL PANEL 1
050C504



SECTION A
050C504



CASED CROSSING TEST STATION 2
050C504

no.	date	by	ckd	description
0	6/17/22	CSL	TBK	ISSUED FOR CONSTRUCTION



Corpro Companies, Inc.
7008 Hollister
Houston, TX 77040
713-480-6000
LICENSE NO. E-2333

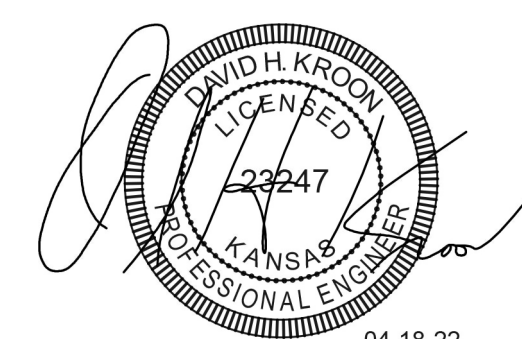
date	APRIL 15, 2022	detailed	F. MORENO
designed	C. LEHMANN	checked	D. KROON



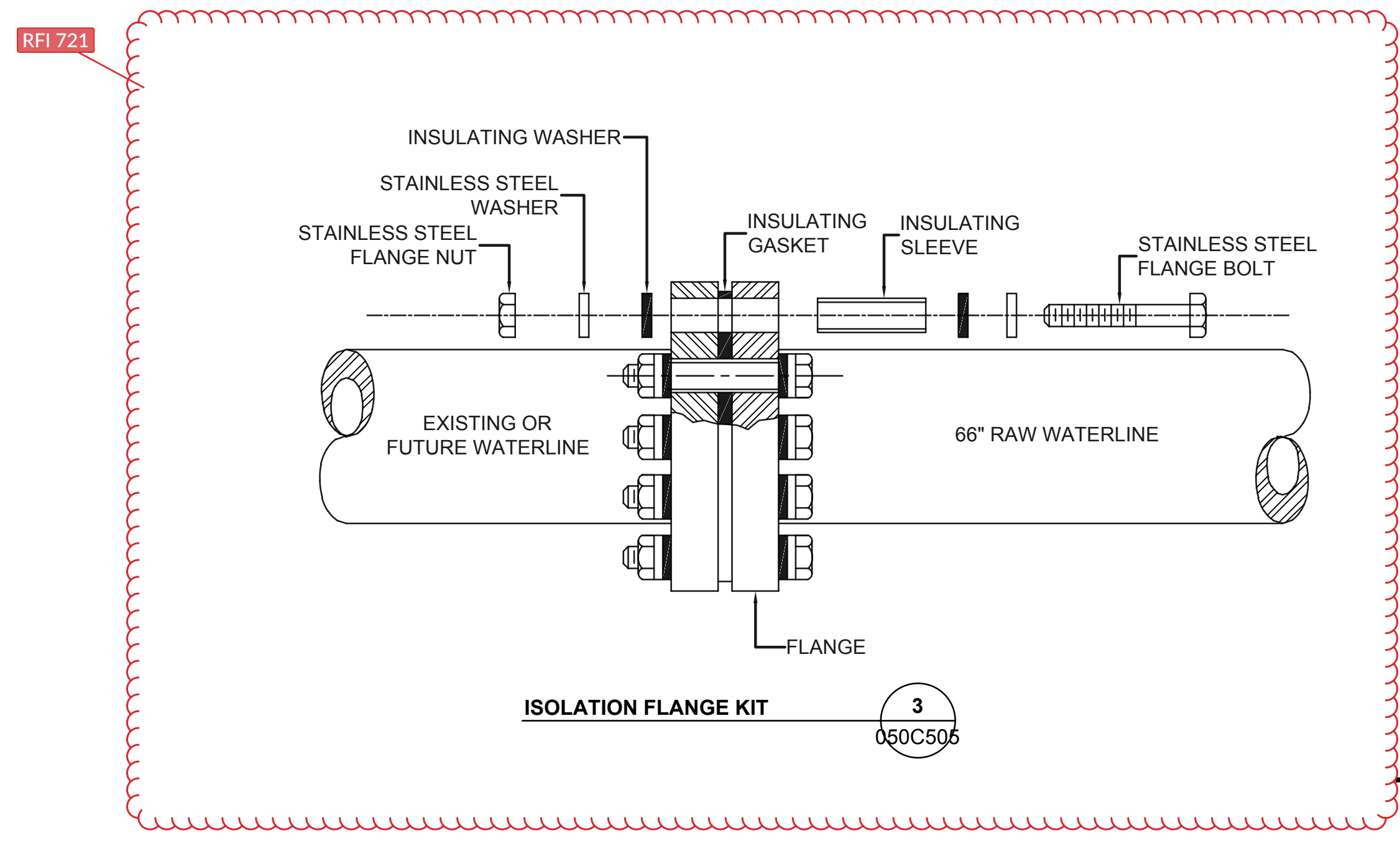
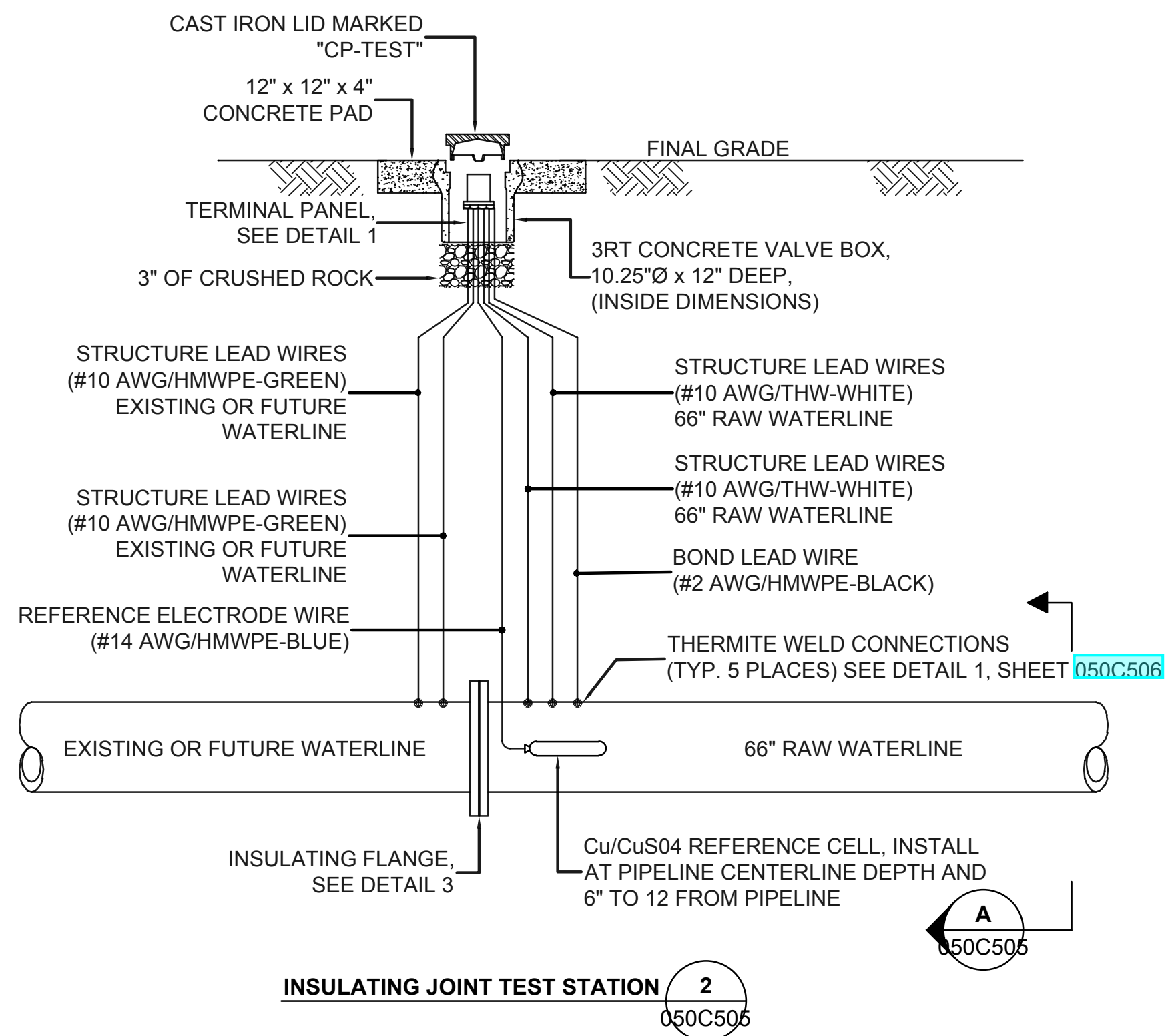
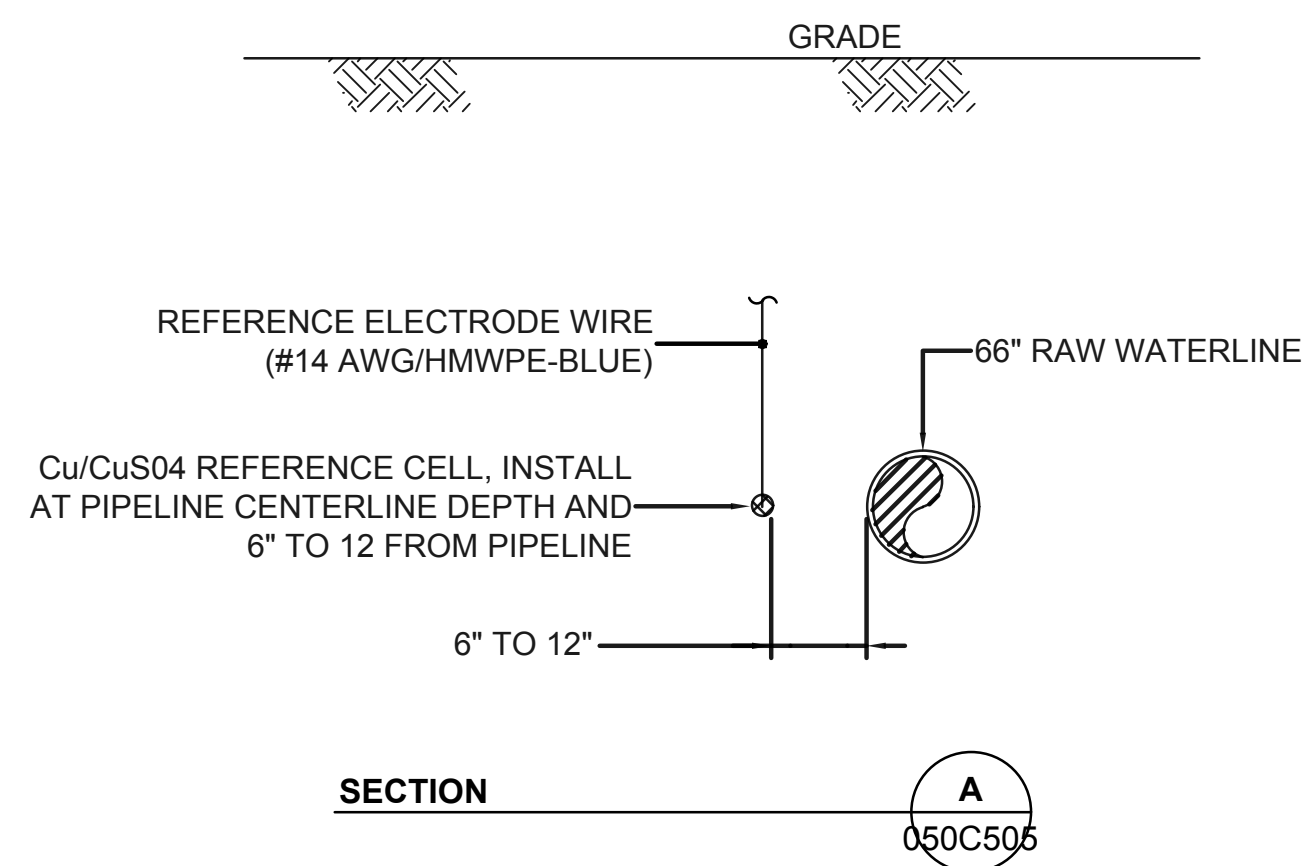
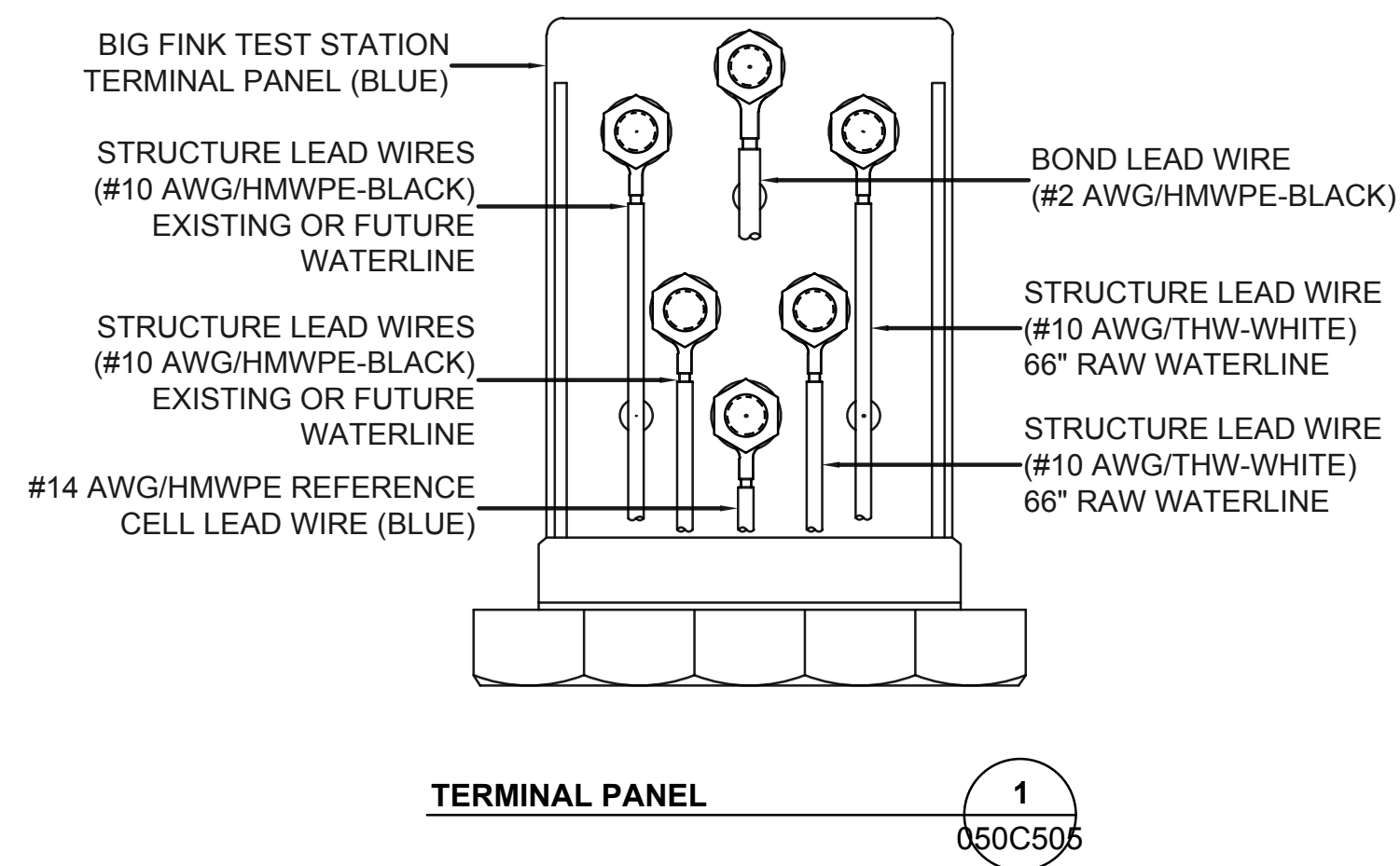
SEDGWICK COUNTY, KANSAS

NORTHWEST WATER TREATMENT FACILITY
SITE - CIVIL
CATHODIC PROTECTION TEST
STATION DETAILS SHEET 1

project	114461	contract	
drawing	050C504	rev.	0
sheet	of	sheets	
file	171350-009-050C504.dwg		



04-18-22



no.	date	by	ckd	description
0	6/17/22	CSL	TBK	ISSUED FOR CONSTRUCTION



Corpro Companies, Inc.
7008 Hollister
Houston, TX 77040
713-460-6000
LICENSE NO. E-2333

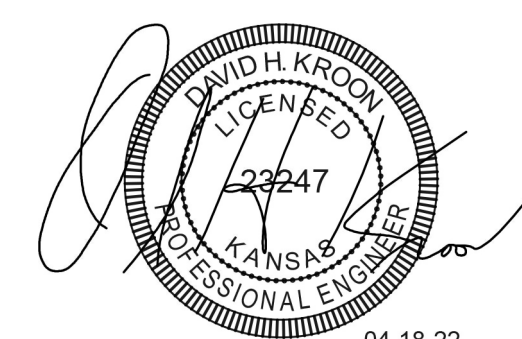
date APRIL 15, 2022	detailed F. MORENO
designed C. LEHMANN	checked D. KROON



SEDGWICK COUNTY, KANSAS

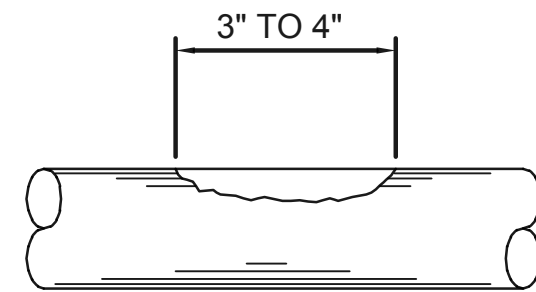
NORTHWEST WATER TREATMENT FACILITY
SITE - CIVIL
CATHODIC PROTECTION TEST STATION
DETAILS SHEET 2

project 114461	contract
drawing 050C505	rev. 0
sheet of	sheets
file 171350-009-050C505.dwg	



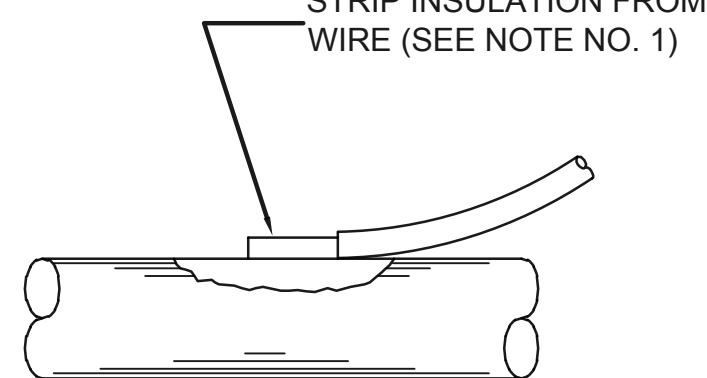
04-18-22

REMOVE PIPELINE COATING, FILE PIPE TO BRIGHT METAL AND DRY ANY MOISTURE WITH A TOWEL.

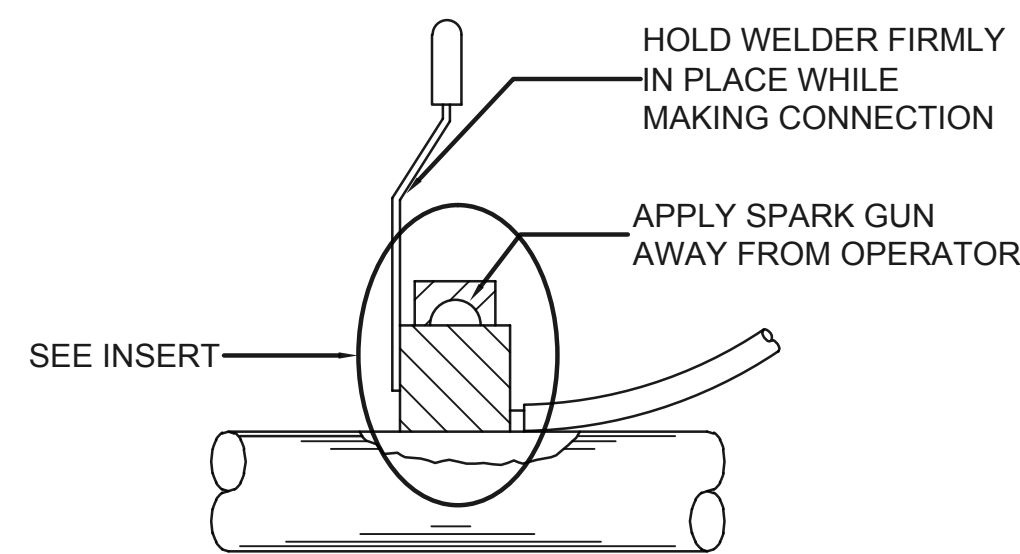


STEP 1

STRIP INSULATION FROM WIRE (SEE NOTE NO. 1)

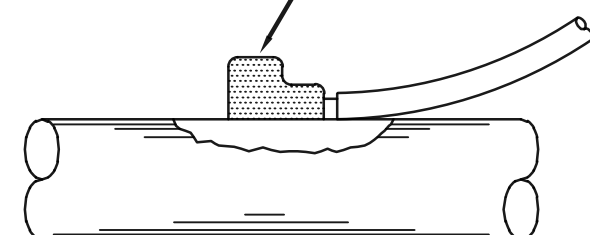


STEP 2

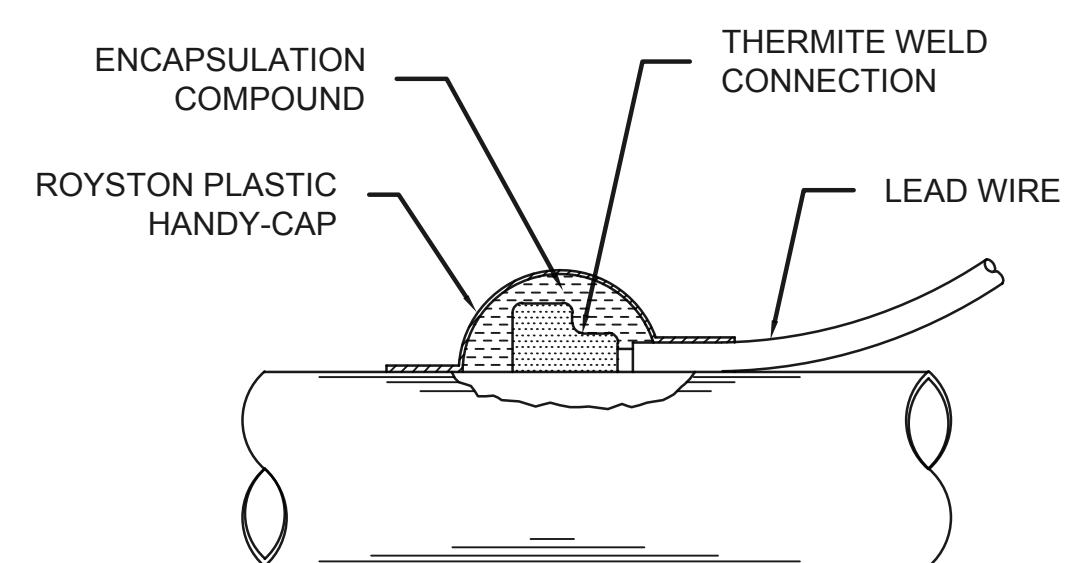


STEP 3

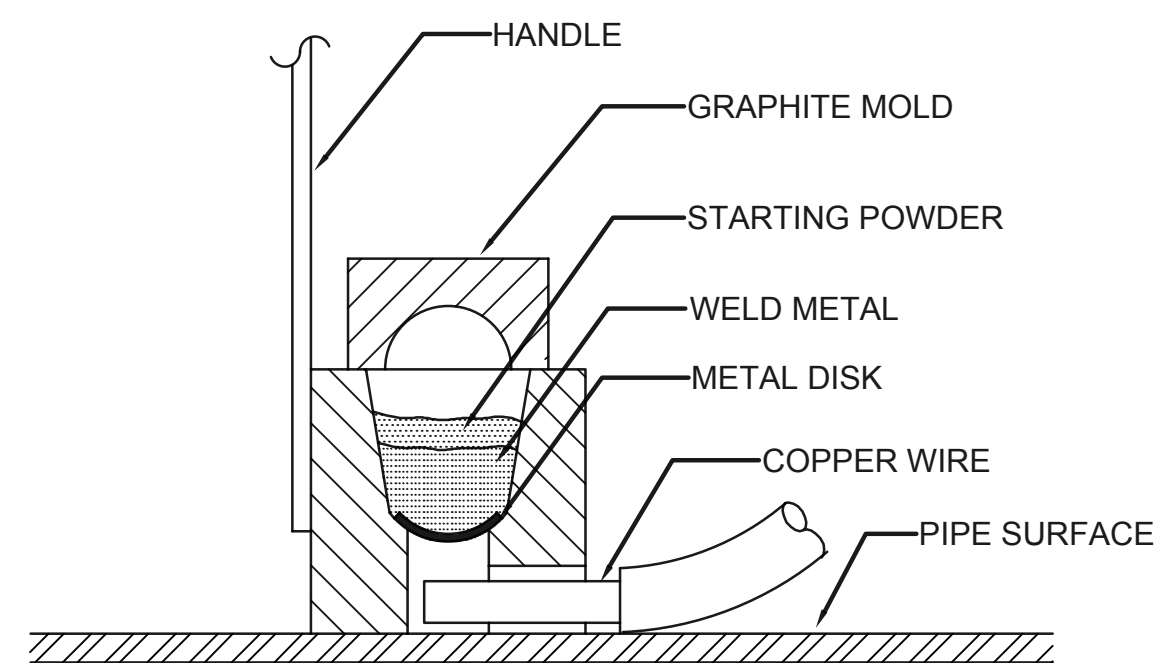
REMOVE SLAG WITH HAMMER



STEP 4



STEP 5



INSERT

GENERAL PROCEDURE

1. WHEN USING NO. 10 TO NO. 14 AWG SOLID OR STRANDED WIRE, IT WILL BE NECESSARY TO INSTALL A COPPER SLEEVE OF ADEQUATE SIZE OVER THE BARE END OF THE WIRE AND CRIMP IN PLACE BEFORE ATTEMPTING TO MAKE THE CONNECTION. THE WIRE SHOULD PROTRUDE AT LEAST 1/8" FROM THE END OF THE SLEEVE.
2. INSERT THE CONDUCTOR INTO THE MOLD NOTING ANY SPECIAL INFORMATION UNDER "POSITIONING" FOR APPLICATION TYPE IN THE MANUFACTURERS INSTRUCTIONS PACKAGED WITH THE WELDER.
3. INSERT STEEL DISK IN BOTTOM OF CAVITY INSIDE MOLD. POUR THE WELD METAL INTO MOLD BEING CAREFUL NOT TO UPSET THE STEEL DISK. SQUEEZE THE BOTTOM OF THE TUBE TO LOOSEN ALL THE STARTING POWDER AND SPREAD IT EVENLY OVER THE WELD METAL. PLACE A SMALL AMOUNT OF STARTING POWDER ON THE TOP EDGE OF THE MOLD UNDER THE COVER OPENING FOR EASY IGNITION.
4. CLOSE COVER AND IGNITE WITH THE FLINT GUN. MOVE THE FLINT GUN AWAY QUICKLY TO PREVENT FOULING. IF FLINT GUN SHOULD BECOME FOULED, SOAK IT IN HOUSEHOLD AMMONIA.
5. AFTER IGNITION HOLD THE WELDER IN PLACE FOR A MOMENT TO ALLOW THE WELD TO SOLIDIFY. AFTER THE WELD HAS COOLED, REMOVE THE SLAG WITH A CHIPPING HAMMER OR WIRE BRUSH.
6. COAT CONNECTION AND THE ENTIRE PREPARED SURFACE.
7. CLEAN THE COVER EVERY 6 TO 10 WELDS.
8. WET OR DAMP MOLDS WILL PRODUCE POROUS WELDS. MOLDS MUST BE DRIED OUT BEFORE ATTEMPTING TO WELD.
9. CONNECTIONS ARE TO BE PLACED A MINIMUM OF 3" APART. UNSUCCESSFUL WELDS ARE TO BE ABANDONED AND MOVED TO ANOTHER PREPARED SURFACE NOT LESS THAN 3" AWAY.

THERMITE WELD PROCEDURE 1 050C506

no.	date	by	ckd	description
0	6/17/22	CSL	TBK	ISSUED FOR CONSTRUCTION



Corpro Companies, Inc.
7000B Hollister
Houston, TX 77040
713-460-6000
LICENSE NO. E-2333

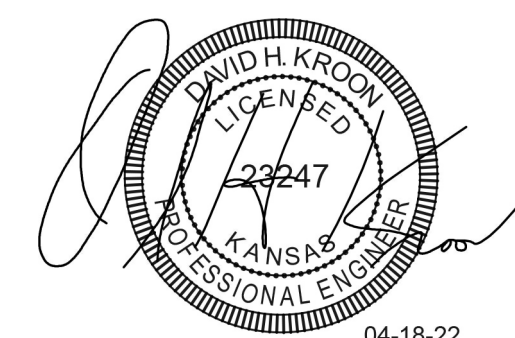
date	APRIL 15, 2022	detailed	F. MORENO
designed	C. LEHMANN	checked	D. KROON



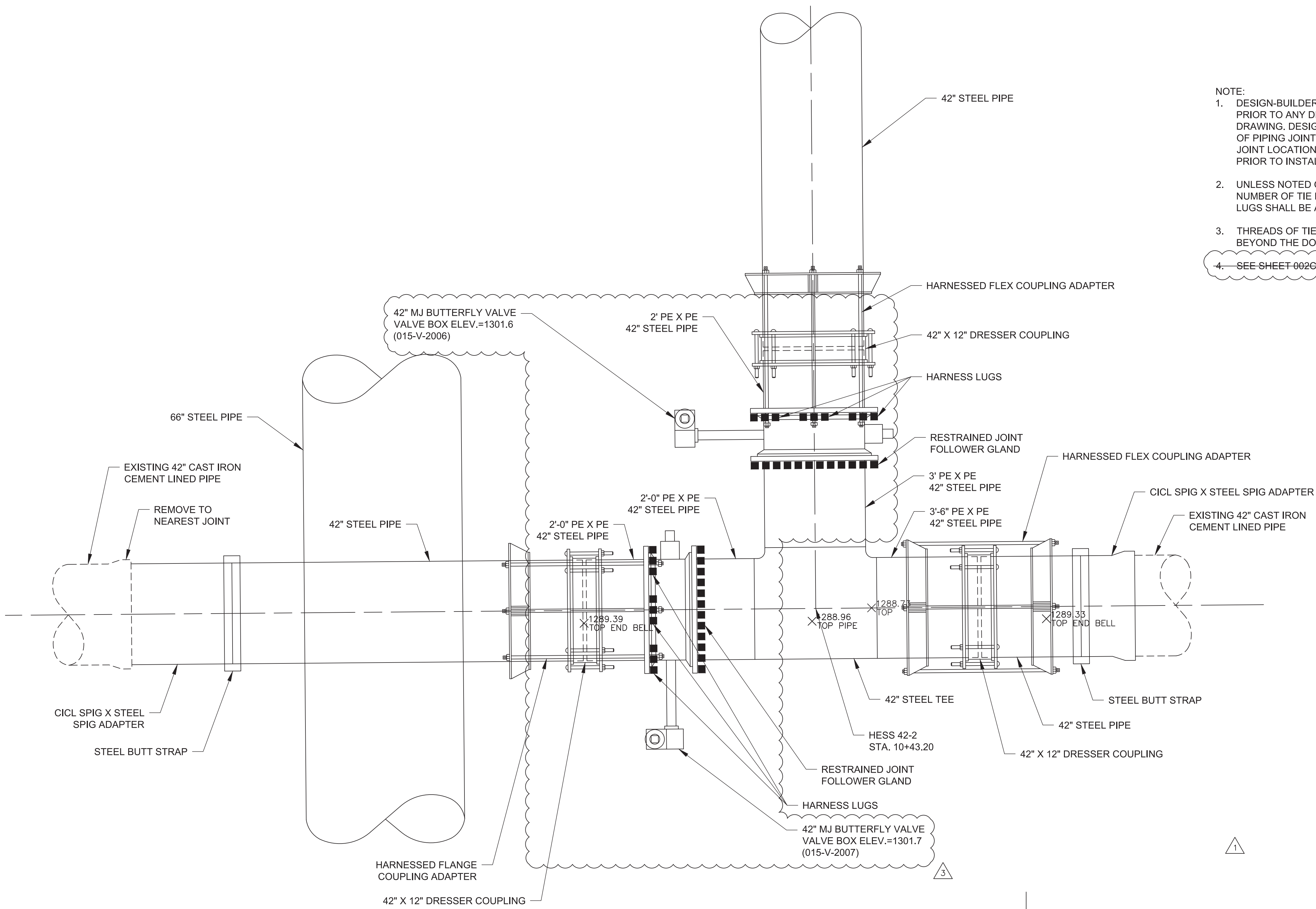
SEDGWICK COUNTY, KANSAS

NORTHWEST WATER TREATMENT FACILITY
SITE - CIVIL
CATHODIC PROTECTION TEST
STATION DETAILS SHEET 3

project	114461	contract	
drawing	050C506	rev.	0
sheet	of	sheets	
file	171350-009-050C506.dwg		



04-18-22



NOTE:
 1. DESIGN-BUILDER TO CONSULT WITH OWNERS REPRESENTATIVE PRIOR TO ANY DEVIATION FROM DESIGN AS STATED ON THIS DRAWING. DESIGN-BUILDER TO DETERMINE EXACT LOCATION OF PIPING JOINTS PRIOR TO FABRICATION AND INSTALLATION. JOINT LOCATIONS MAY REQUIRE ALIGNMENT ADJUSTMENT PRIOR TO INSTALLATION.
 2. UNLESS NOTED OTHERWISE FOR THE JOINT HARNESS, THE NUMBER OF TIE BOLTS, THE DIMENSIONS OF TIE BOLTS AND LUGS SHALL BE AS PER AWWA M-11, FIFTH ADDITION.
 3. THREADS OF TIE BOLTS SHALL EXTEND A MINIMUM OF 1/2" BEYOND THE DOUBLE NUT ASSEMBLY ON BOTH ENDS.
 4. SEE SHEET 002C513 FOR VALVE BOX DETAIL.

no.	date	by	ckd	description
0	11/12/21	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION
1	1/14/22	MAB		WWP COMMENTS
	1/18/22	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION
2	5/6/22	MAB		REVISED PER DCN 22
	5/6/22	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION
3	9/2/22	MAB		REVISED PER DCN 65
	9/2/22	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION

wichita
 WATER PARTNERS

MKEC
 Wichita, KS • 316.684.9600
 LICENSE NO. E-249

date	APR. 12, 2021	detailed	J. CODY
designed	D. LANCASTER	checked	S. FRANK

CITY OF WICHITA

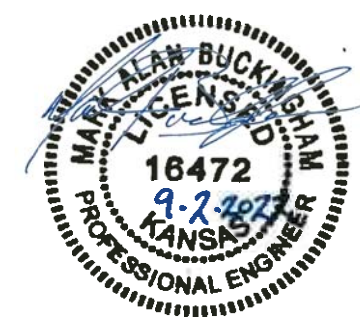
SEDGWICK COUNTY, KANSAS

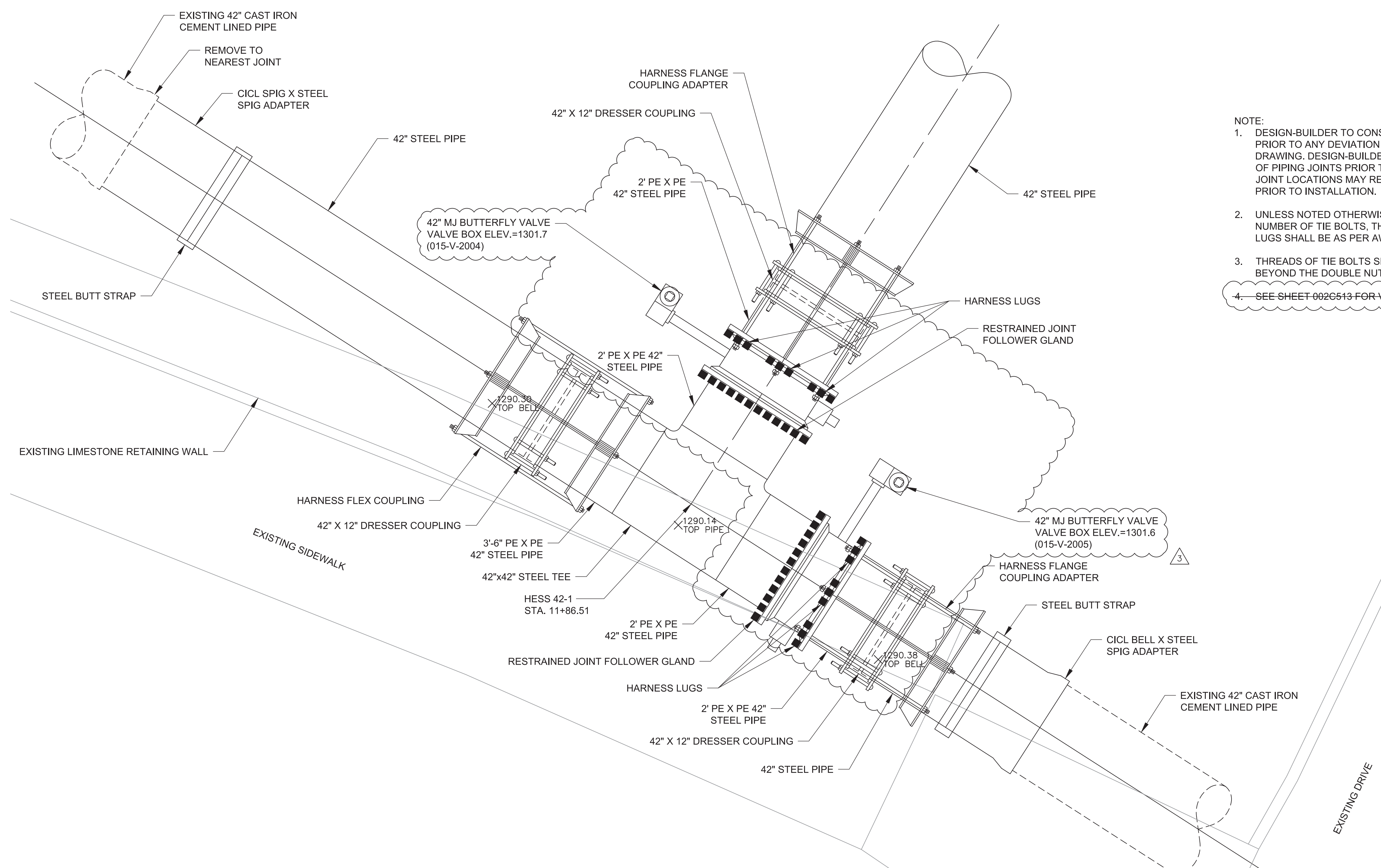
NORTHWEST WATER TREATMENT FACILITY
 OFF-SITE PIPING
 CONNECTION DETAIL
 42"x42" NEAR FCV VAULT

project	114461	contract	
drawing	050C511	rev.	3
sheet	of	sheets	
file 114461_050_C511.dwg			



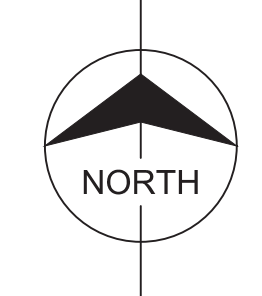
42" TEE DETAIL
 SCALE 1/2"=1'-0"





NOTE:
 1. DESIGN-BUILDER TO CONSULT WITH OWNERS REPRESENTATIVE PRIOR TO ANY DEVIATION FROM DESIGN AS STATED ON THIS DRAWING. DESIGN-BUILDER TO DETERMINE EXACT LOCATION OF PIPING JOINTS PRIOR TO FABRICATION AND INSTALLATION. JOINT LOCATIONS MAY REQUIRE ALIGNMENT ADJUSTMENT PRIOR TO INSTALLATION.
 2. UNLESS NOTED OTHERWISE FOR THE JOINT HARNESS, THE NUMBER OF TIE BOLTS, THE DIMENSIONS OF TIE BOLTS AND LUGS SHALL BE AS PER AWWA M-11, FIFTH ADDITION.
 3. THREADS OF TIE BOLTS SHALL EXTEND A MINIMUM OF 1/2" BEYOND THE DOUBLE NUT ASSEMBLY ON BOTH ENDS.
 4. SEE SHEET 002C513 FOR VALVE BOX DETAIL.

no.	date	by	ckd	description
0	11/12/21	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION
1	1/14/22	MAB		WWP COMMENTS
	1/18/22	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION
2	5/6/22	MAB		REVISED PER DCN 22
	5/6/22	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION
3	9/2/22	MAB		REVISED PER DCN 65
	9/2/22	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION



42" TEE DETAIL
 SCALE 1/2"=1'-0"



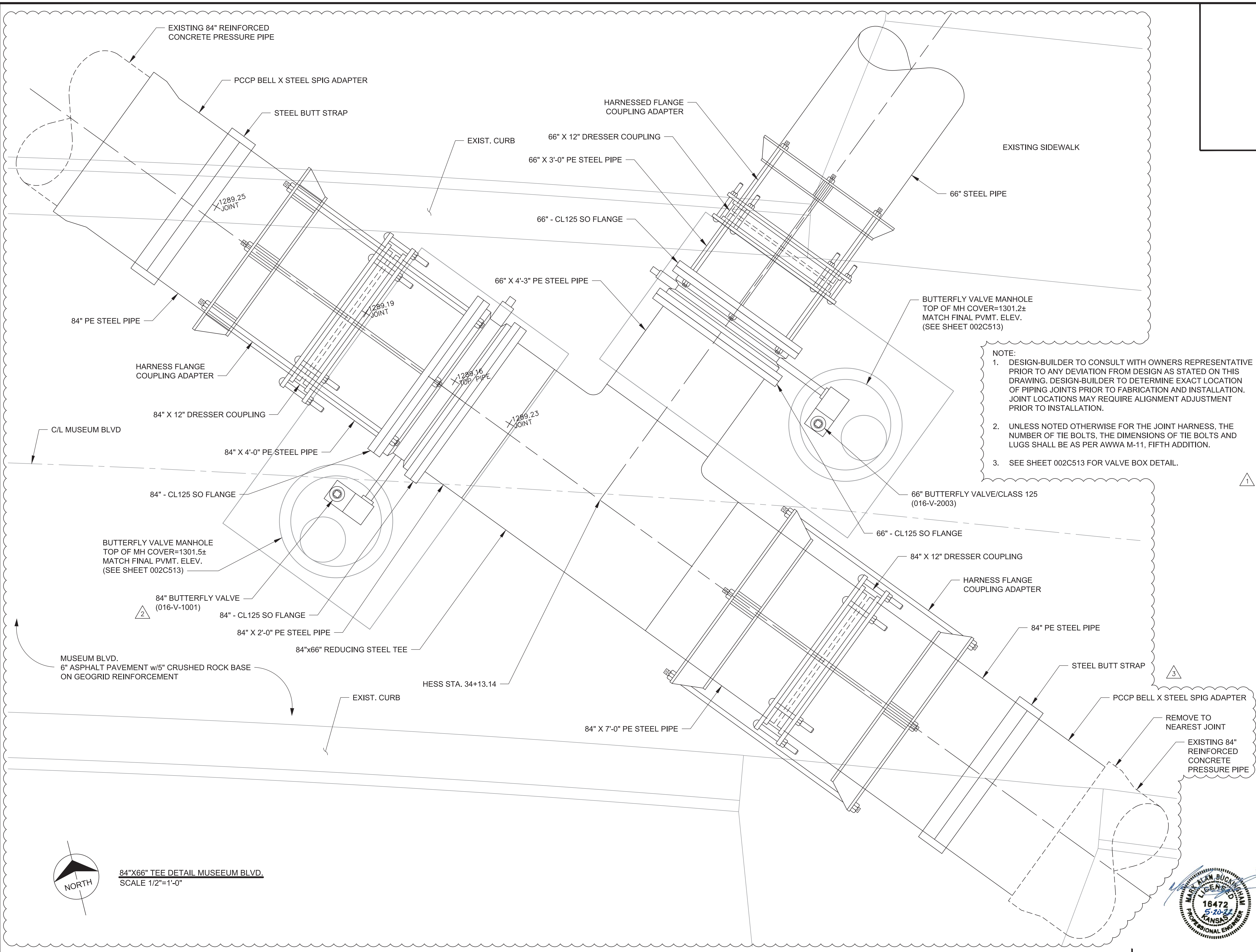
wichita
 WATER PARTNERS

MKEC
 Wichita, KS • 316.684.9600
 LICENSE NO. E-249

date	APR. 12, 2021	detailed	J. CODY
designed	D. LANCASTER	checked	S. FRANK

CITY OF WICHITA
 SEDGWICK COUNTY, KANSAS

NORTHWEST WATER TREATMENT FACILITY OFF-SITE PIPING CONNECTION DETAIL 42"x42" NEAR MUSEUM BLVD	
project	contract
114461	
drawing	rev.
050C512	3
sheet	of sheets
file 114461_050_C512.dwg	



NOTE:

- DESIGN-BUILDER TO CONSULT WITH OWNERS REPRESENTATIVE PRIOR TO ANY DEVIATION FROM DESIGN AS STATED ON THIS DRAWING. DESIGN-BUILDER TO DETERMINE EXACT LOCATION OF PIPING JOINTS PRIOR TO FABRICATION AND INSTALLATION. JOINT LOCATIONS MAY REQUIRE ALIGNMENT ADJUSTMENT PRIOR TO INSTALLATION.
- UNLESS NOTED OTHERWISE FOR THE JOINT HARNESS, THE NUMBER OF TIE BOLTS, THE DIMENSIONS OF TIE BOLTS AND LUGS SHALL BE AS PER AWWA M-11, FIFTH ADDITION.
- SEE SHEET 002C513 FOR VALVE BOX DETAIL.

no.	date	by	ckd	description
0	11/12/21	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION
1	1/14/22	MAB		WWP COMMENTS
	1/18/22	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION
2	4/14/22	MAB		REVISED PER DCN 18
	4/15/22	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION
3	5/6/22	MAB		REVISED PER DCN 22
	5/6/22	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION



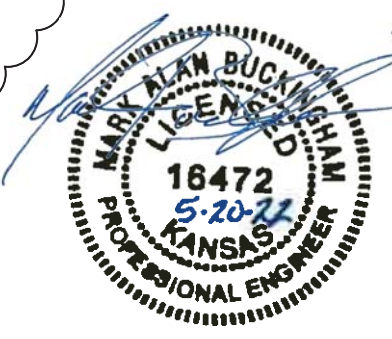
date	APR. 12, 2021	detailed	J. CODY
designed	D. LANCASTER	checked	S. FRANK

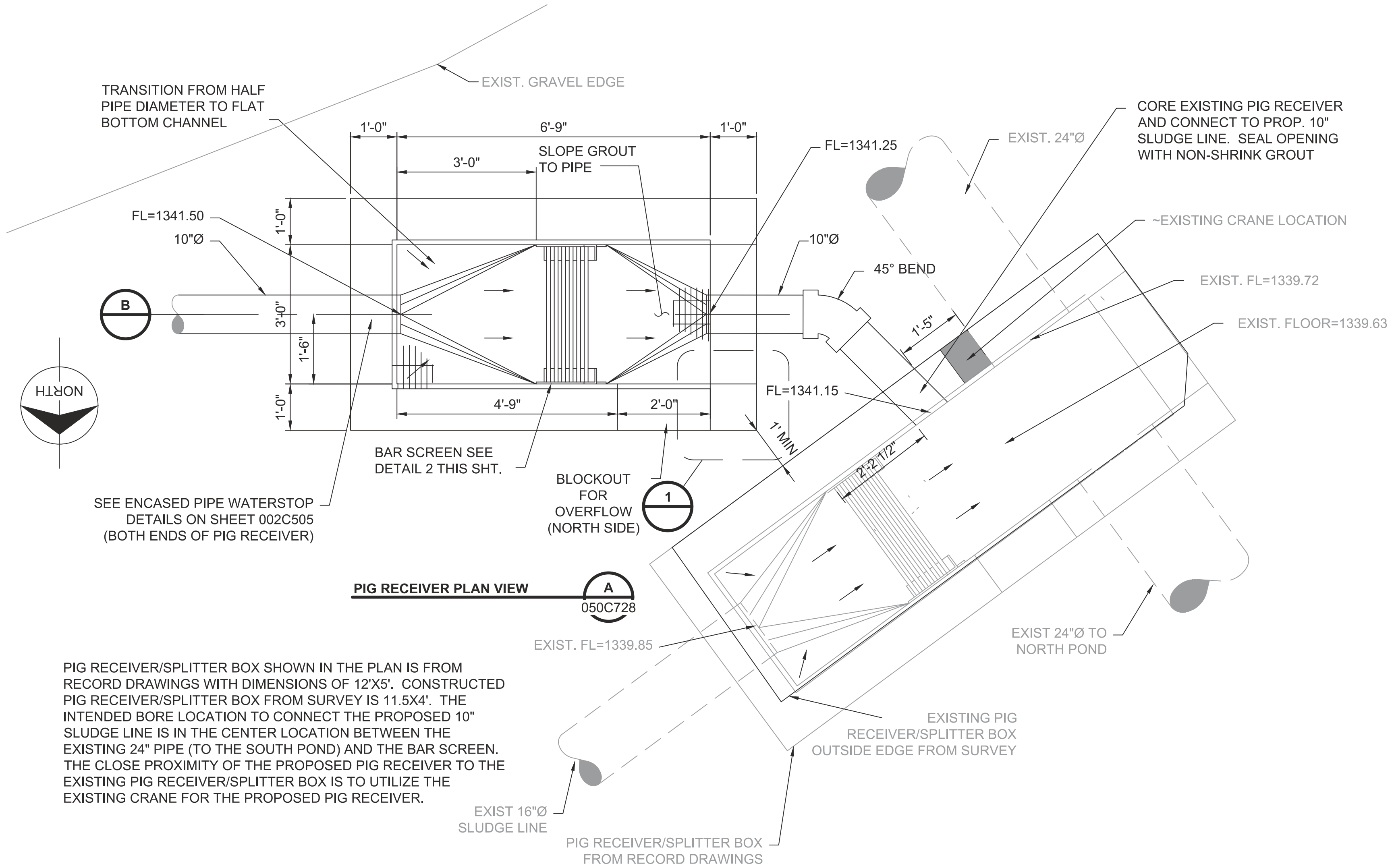


SEDGWICK COUNTY, KANSAS	
NORTHWEST WATER TREATMENT FACILITY OFF-SITE PIPING CONNECTION DETAIL 84"x66" @ MUSEUM BLVD	
project	114461
contract	
drawing	050C513 - 3
sheet	of sheets
file 114461_050_C513.dwg	



84"x66" TEE DETAIL MUSEUM BLVD.
SCALE 1/2"=1'-0"

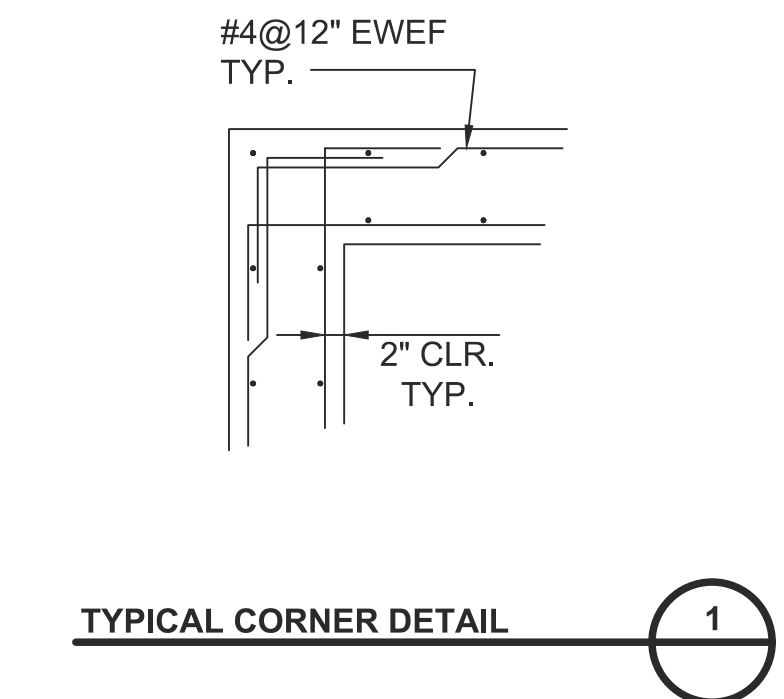




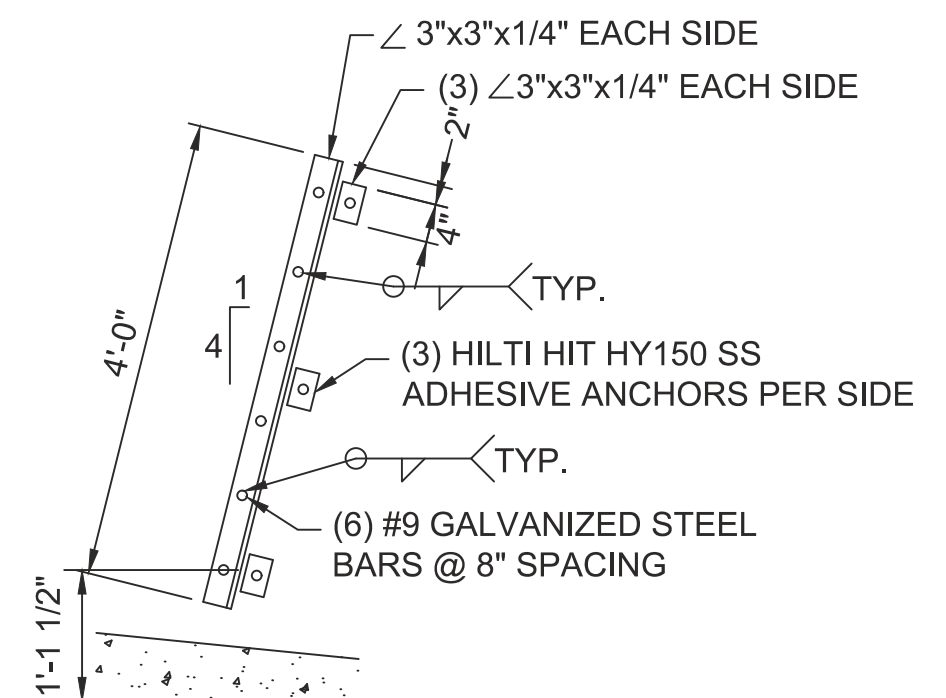
SEE ENCASED PIPE WATERSTOP DETAILS ON SHEET 002C505 (BOTH ENDS OF PIG RECEIVER)

PIG RECEIVER PLAN VIEW A 050C728

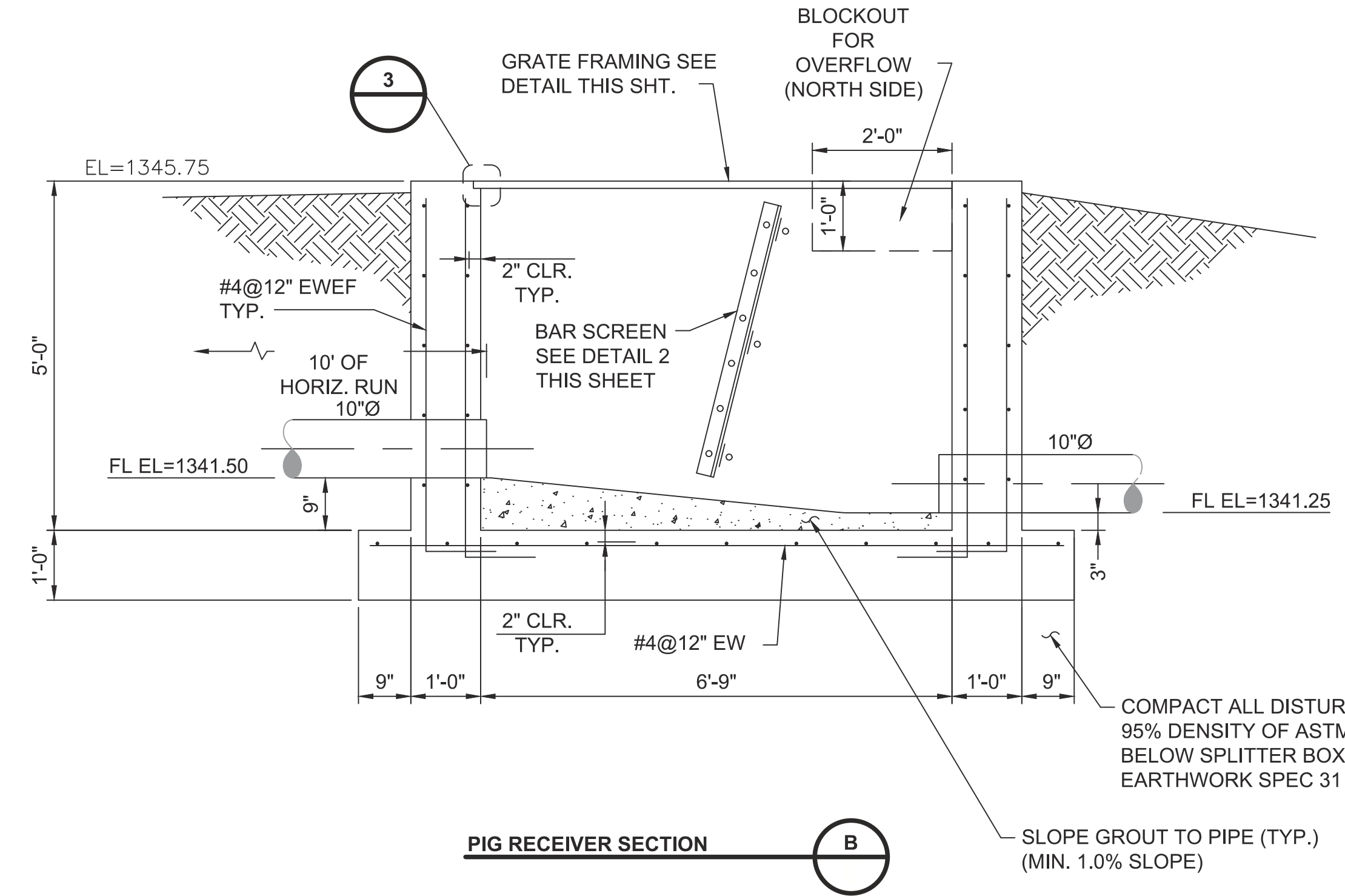
PIG RECEIVER/SPLITTER BOX SHOWN IN THE PLAN IS FROM RECORD DRAWINGS WITH DIMENSIONS OF 12'X5'. CONSTRUCTED PIG RECEIVER/SPLITTER BOX FROM SURVEY IS 11.5'X4'. THE INTENDED BORE LOCATION TO CONNECT THE PROPOSED 10" SLUDGE LINE IS IN THE CENTER LOCATION BETWEEN THE EXISTING 24" PIPE (TO THE SOUTH POND) AND THE BAR SCREEN. THE CLOSE PROXIMITY OF THE PROPOSED PIG RECEIVER TO THE EXISTING PIG RECEIVER/SPLITTER BOX IS TO UTILIZE THE EXISTING CRANE FOR THE PROPOSED PIG RECEIVER.



TYPICAL CORNER DETAIL 1



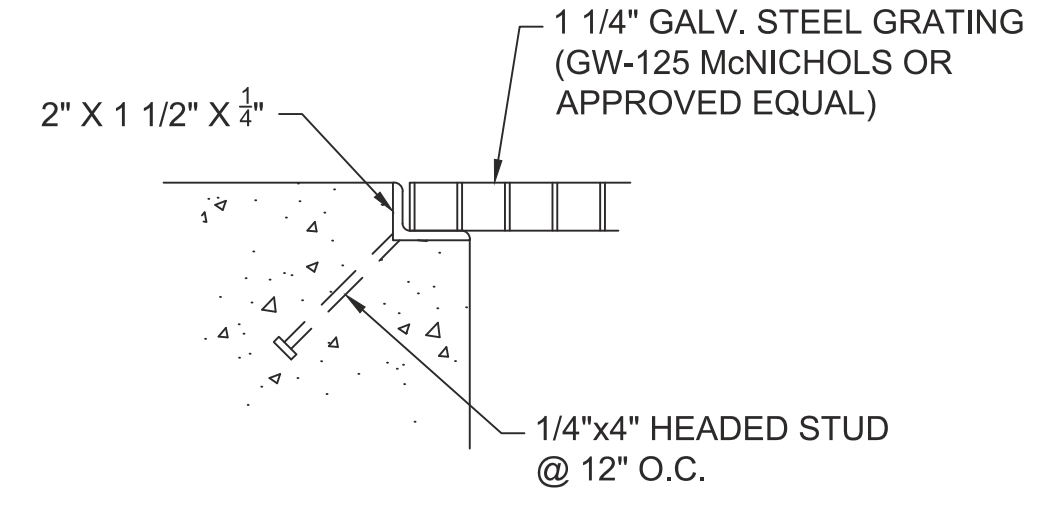
(PIG RECEIVER BARS) BAR SCREEN DETAIL 2



PIG RECEIVER SECTION B

GENERAL NOTES

1. DESIGN-BUILDER SHALL ADHERE TO DIVISION 03 - CONCRETE FOR ALL MATERIAL AND TESTING.
2. CONCRETE COVER SHALL BE MIN. 3" IN BOTTOM OF FOOTING CAST AGAINST SOIL. ALL OTHER COVER SHALL BE MIN. 2".
3. BAR SCREEN, ANGLES, AND FASTENERS SHALL BE GALVANIZED MILD STEEL.



GRATING SUPPORT DETAIL 3

no.	date	by	ckd	description
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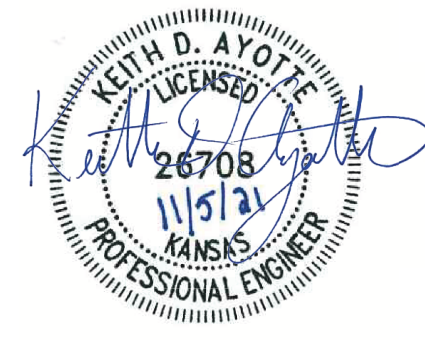
date	APR. 09, 2019	detailed	J. CODY
designed	D. LANCASTER	checked	S. FRANK

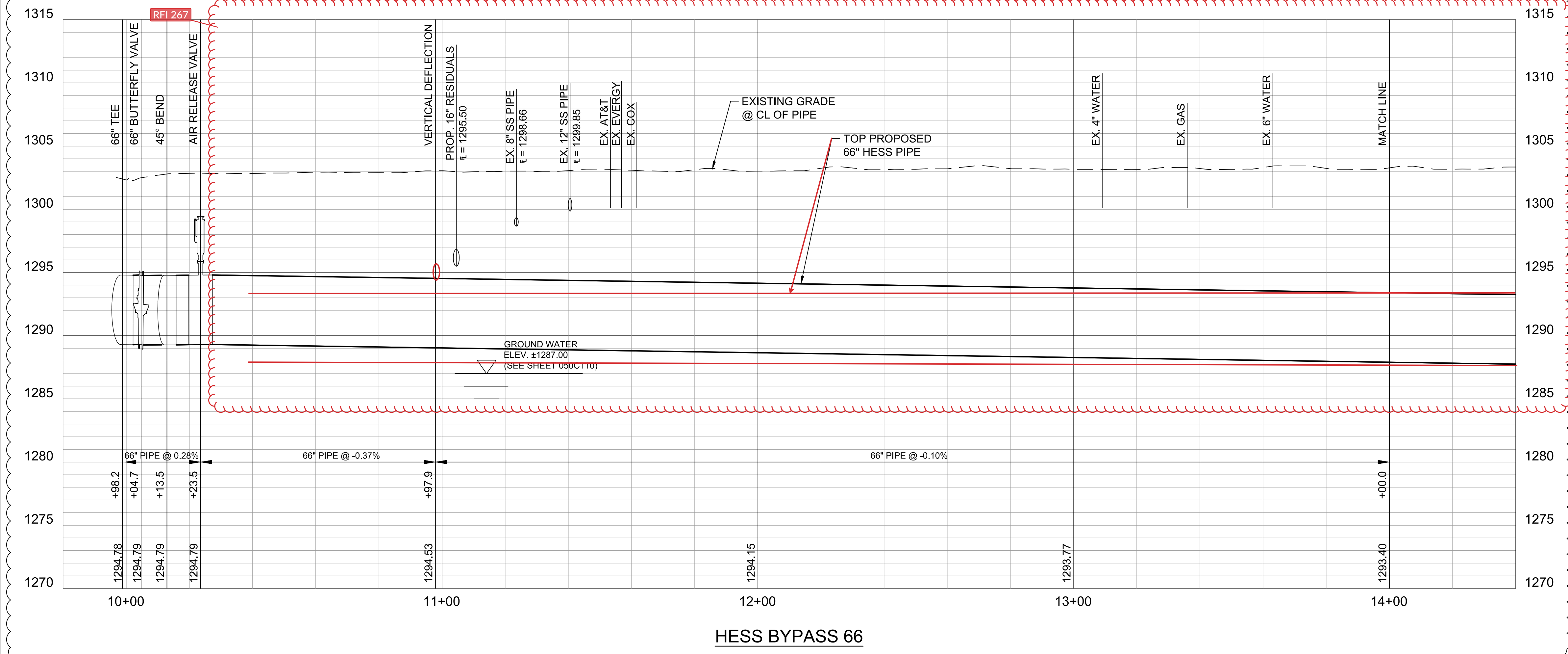
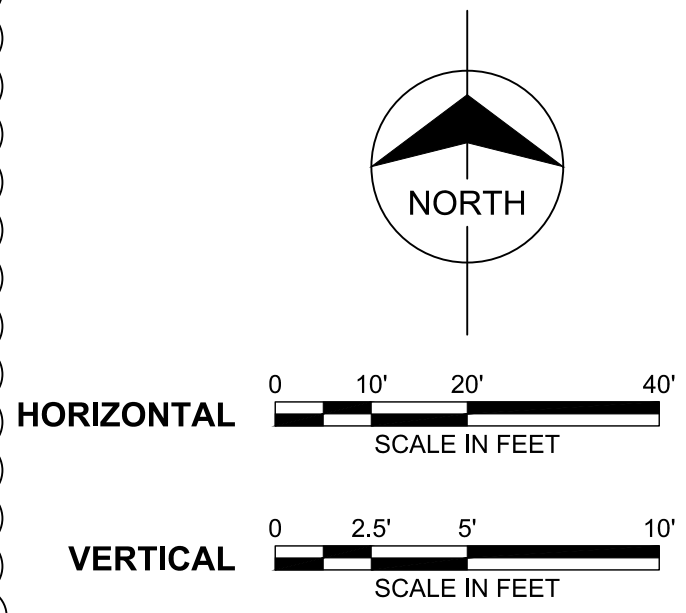
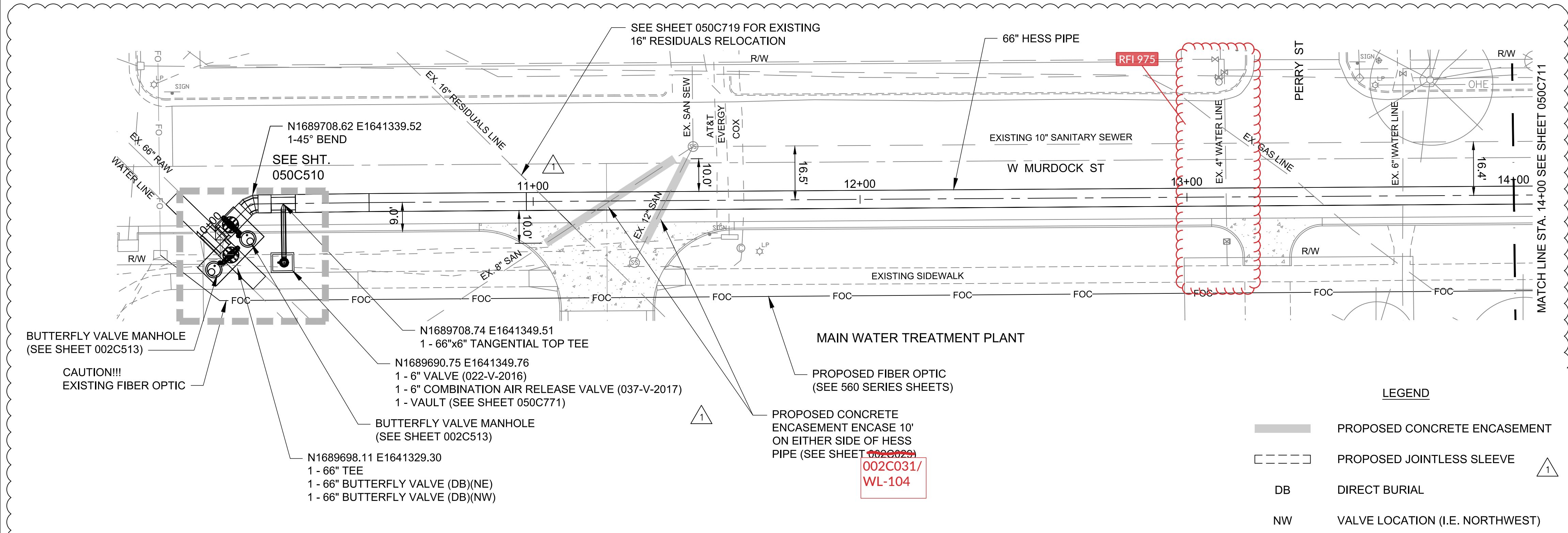


SEDGWICK COUNTY, KANSAS

NORTHWEST WATER TREATMENT FACILITY
OFF-SITE PIPING
SLUDGE LINE
PIG RECEIVER DETAILS

project	114461	contract	
drawing	050C550	rev.	0
sheet	of	sheets	
file 114461_050_C710.dwg			





no.	date	by	ckd	description
0	11/12/21	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION
1	1/14/22	MAB		REVISED PER KDHE COMMENT
	1/18/22	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION
2	5/6/22	MAB		REVISED PER DCN 22
	5/6/22	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION

wichita
WATER PARTNERS

MKEC
Wichita, KS • 316.684.9600
LICENSE NO. E-249

date FEB. 8, 2021	detailed J. CODY
designed D. LANCASTER	checked S. FRANK

CITY OF WICHITA
SEDGWICK COUNTY, KANSAS

NORTHWEST WATER TREATMENT FACILITY
OFF-SITE PIPING
HESS BYPASS
STA. 10+00.00 TO 14+00.00

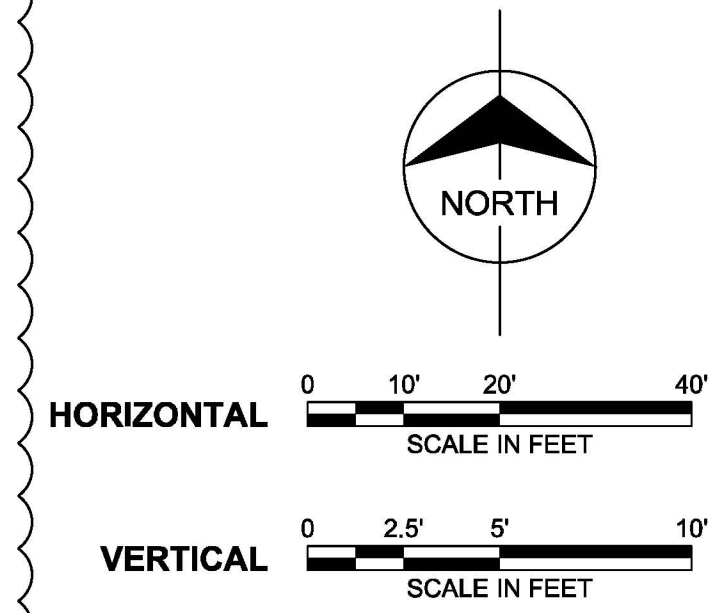
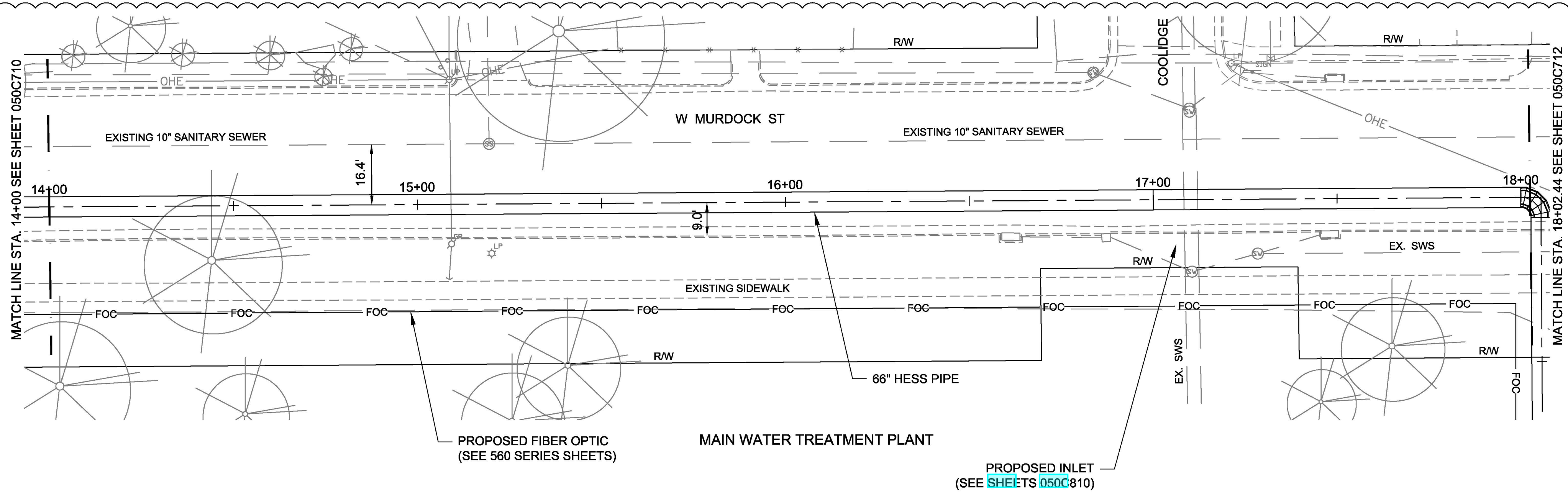
project 114461 | contract

drawing **050C710** - **2** | rev.

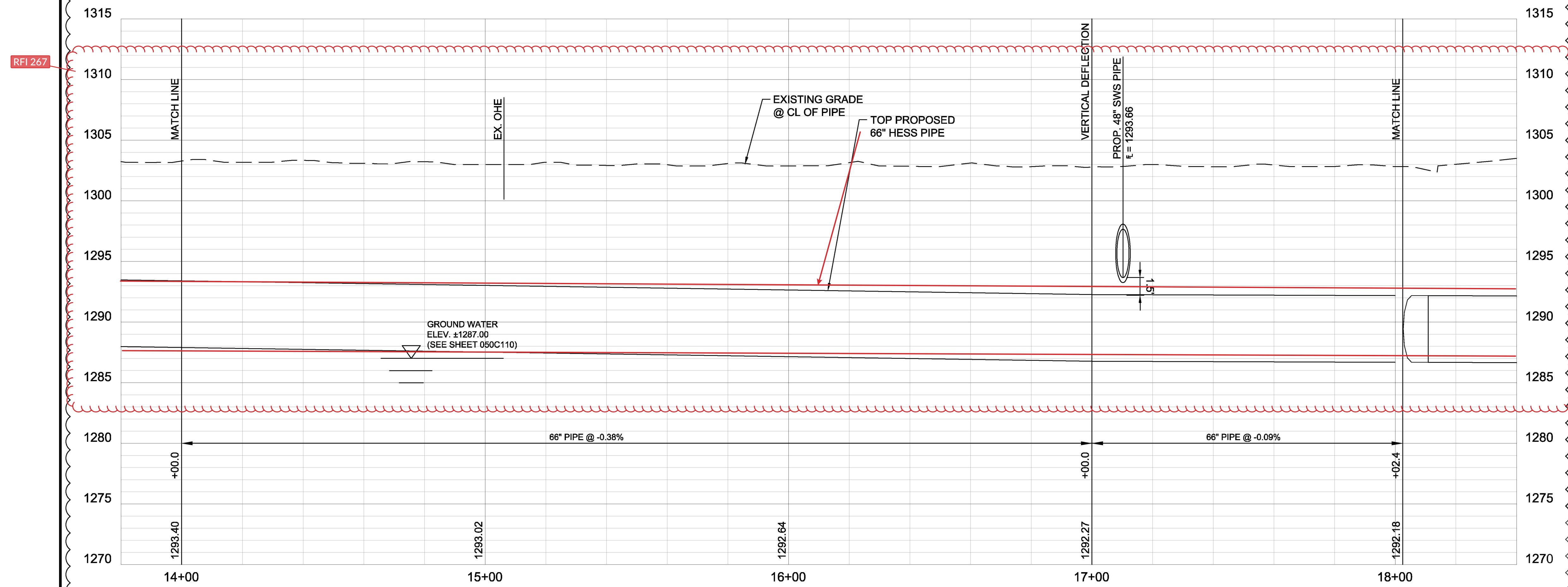
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file 114461_050_C710.dwg





LEGEND
 DB DIRECT BURIAL
 NW VALVE LOCATION (I.E. NORTHWEST)



HESS BYPASS 66

no.	date	by	ckd	description
0	11/12/21	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION
1	5/6/22	MAB		REVISED PER DCN 22
	5/6/22	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION

wichita
 WATER PARTNERS

MKEC
 Wichita, KS • 316.684.9600
 LICENSE NO. E-249

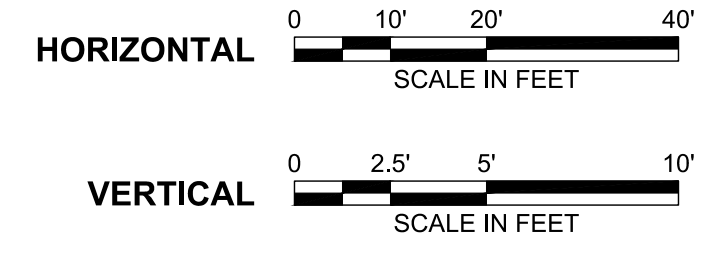
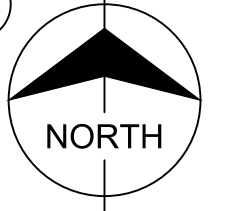
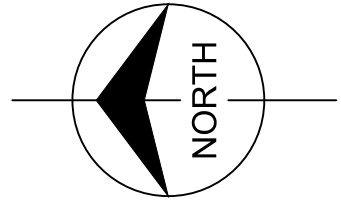
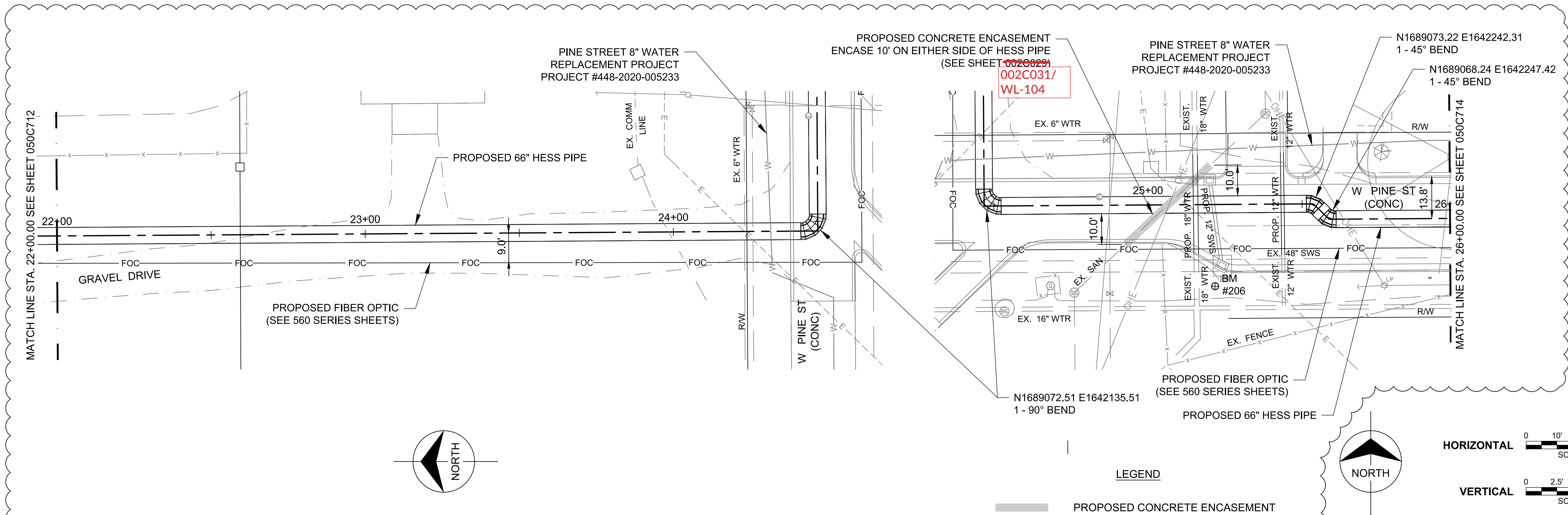
date FEB. 8, 2021	detailed J. CODY
designed D. LANCASTER	checked S. FRANK

CITY OF WICHITA

SEDGWICK COUNTY, KANSAS

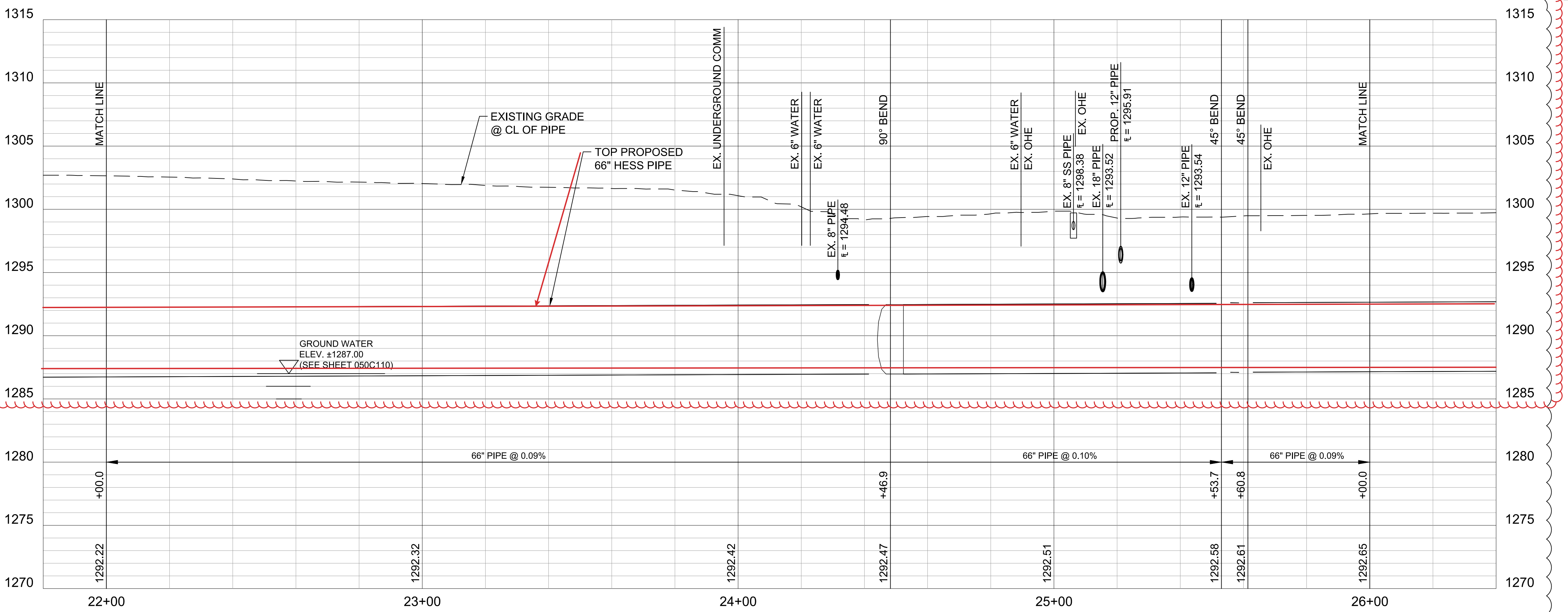
NORTHWEST WATER TREATMENT FACILITY	
OFF-SITE PIPING HESS BYPASS	
STA. 14+00.00 TO 18+02.44	
project 114461	contract
drawing 050C711	rev. 1
sheet	of sheets
file 114461_050_C711.dwg	





LEGEND
 PROPOSED CONCRETE ENCASEMENT

RFI 267



HESS BYPASS 66

no.	date	by	ckd	description
0	11/12/21	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION
1	5/6/22	MAB		REVISED PER DCN 22
	5/6/22	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION

wichita
WATER PARTNERS

MKEC
Wichita, KS • 316.684.9600
LICENSE NO. E-249

date FEB. 8, 2021	detailed J. CODY
designed D. LANCASTER	checked S. FRANK

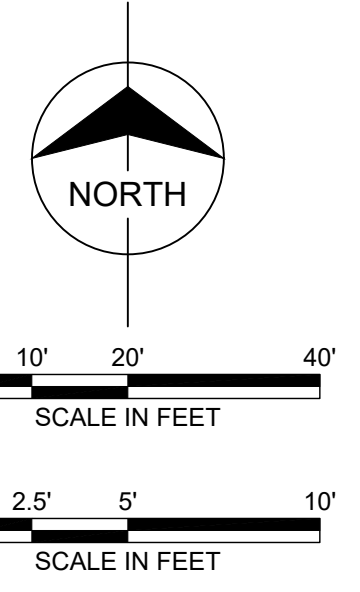
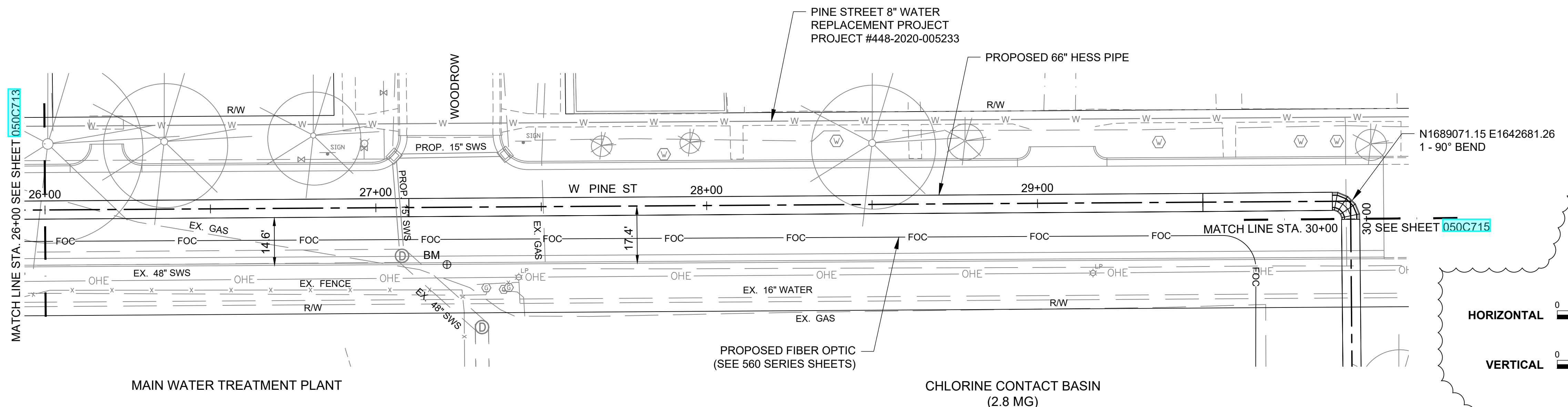


SEDGWICK COUNTY, KANSAS

NORTHWEST WATER TREATMENT FACILITY
OFF-SITE PIPING
HESS BYPASS
STA. 22+00.00 TO 26+00.00

project 114461	contract
drawing 050C713	rev. 1
sheet	of sheets
file 114461_050_C713.dwg	

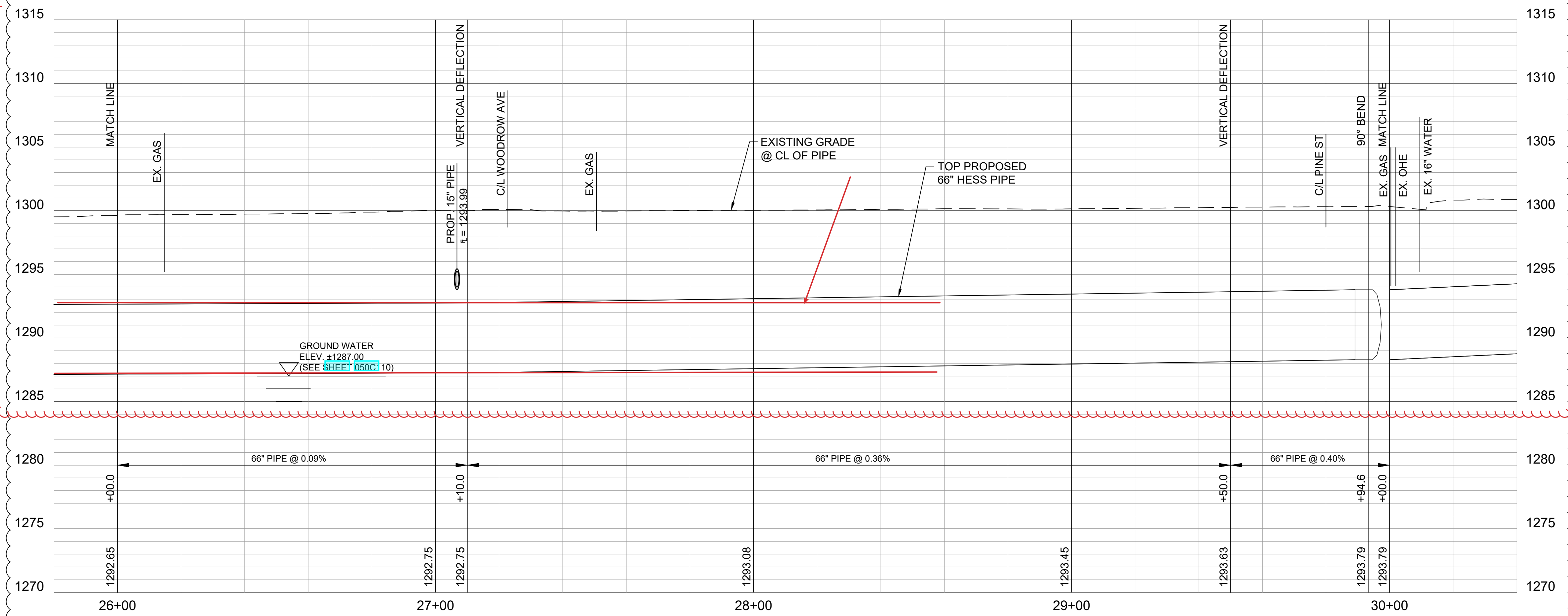




- LEGEND**
- DB DIRECT BURIAL
 - NW VALVE LOCATION (I.E. NORTHWEST)

no.	date	by	ckd	description
0	11/12/21	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION
1	5/6/22	MAB		REVISED PER DCN 22
	5/6/22	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION

RFI 267



HESS BYPASS 66



date FEB. 8, 2021	detailed J. CODY
designed D. LANCASTER	checked S. FRANK

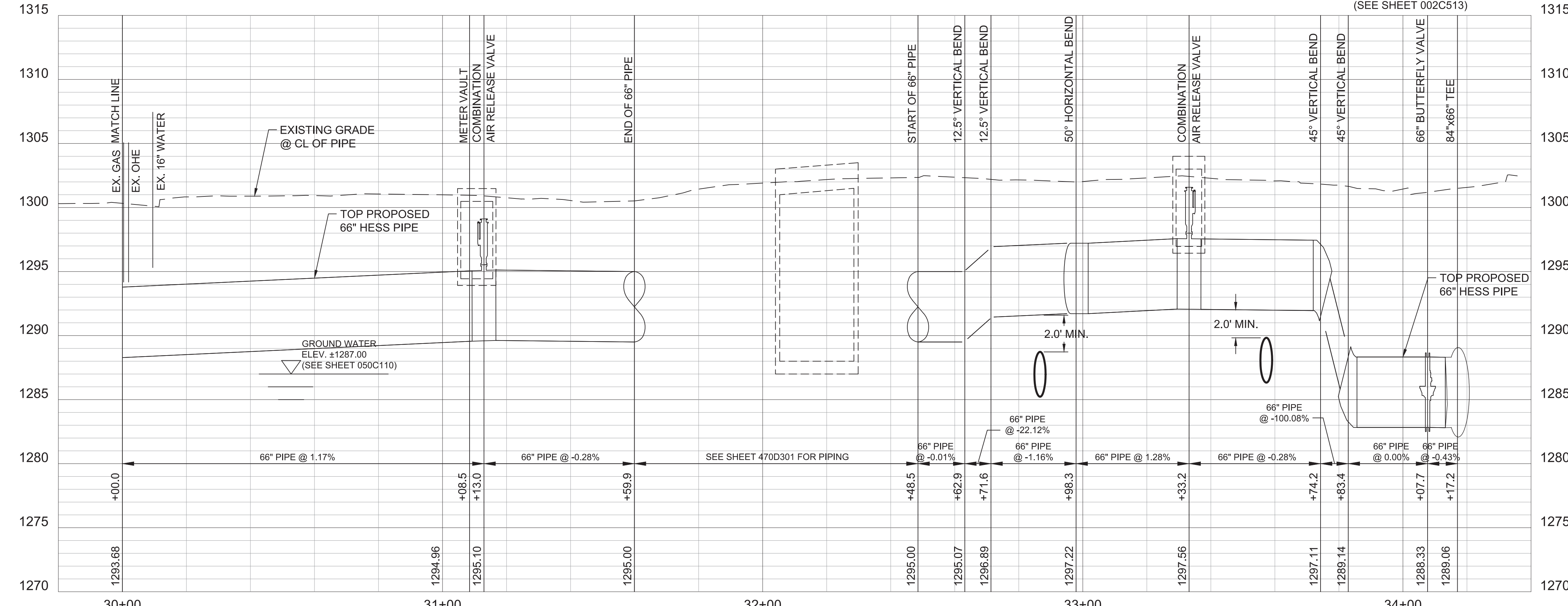
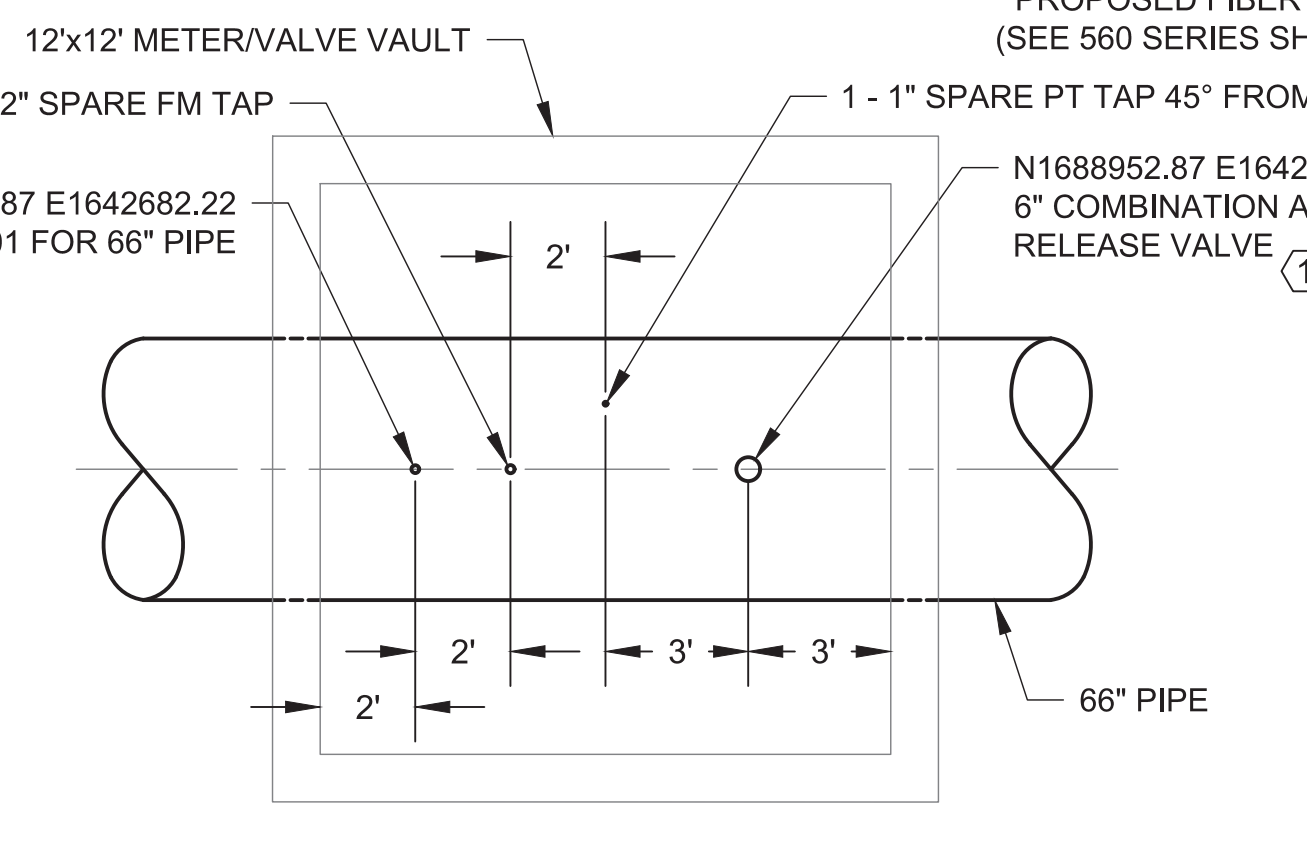
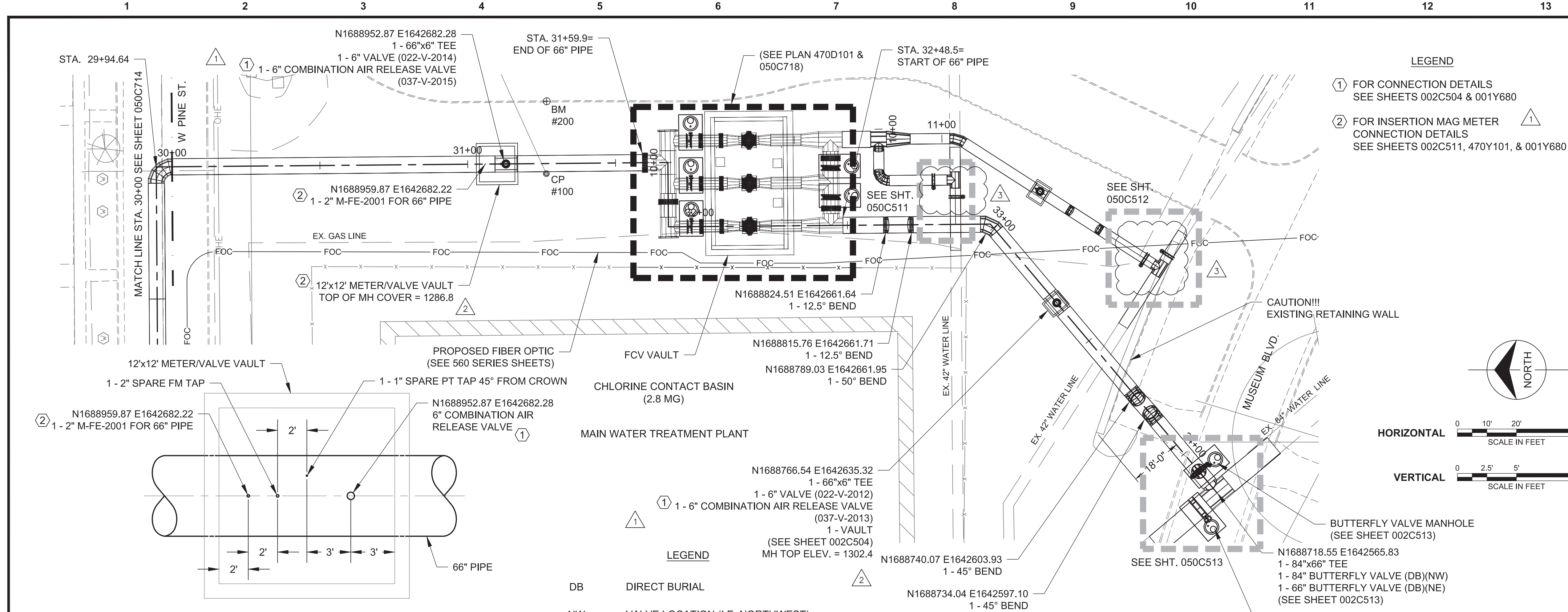


SEDGWICK COUNTY, KANSAS

NORTHWEST WATER TREATMENT FACILITY
OFF-SITE PIPING
HESS BYPASS
STA. 26+00.00 TO 30+00.00

project 114461	contract
drawing 050C714	rev. 1
sheet	of sheets
file 114461_050_C714.dwg	





Hess Bypass 66

no.	date	by	ckd	description
0	11/12/21	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION
1	1/14/22	MAB		ADDED VALVE NUMBERS
	1/18/22	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION
2	5/6/22	MAB		REVISED PER DCN 22
	5/6/22	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION
3	9/2/22	MAB		REVISED PER DCN 65
	9/2/22	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION

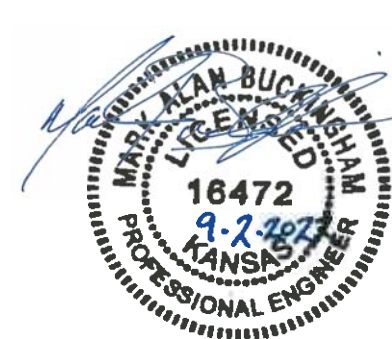
wichita
WATER PARTNERS

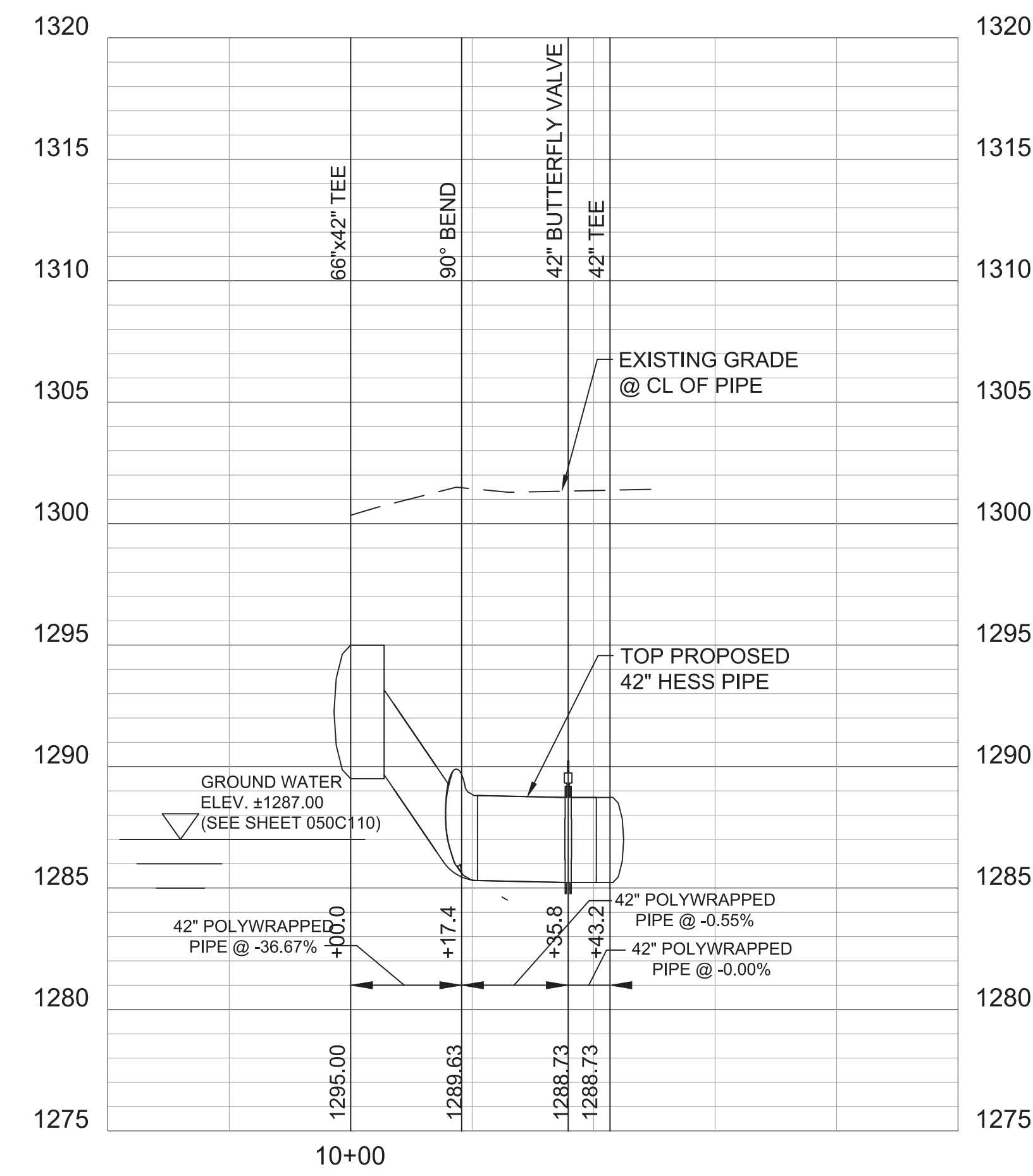
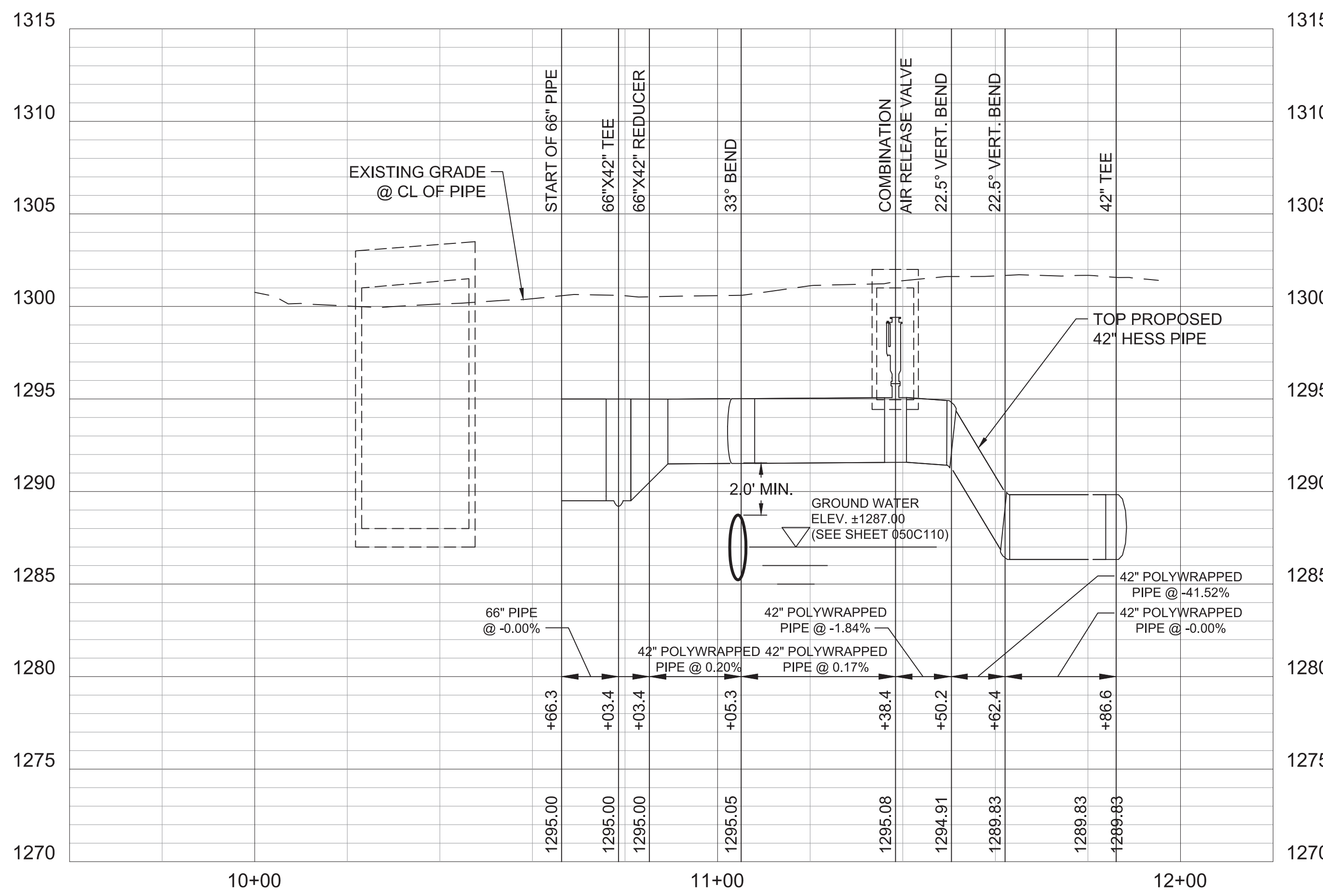
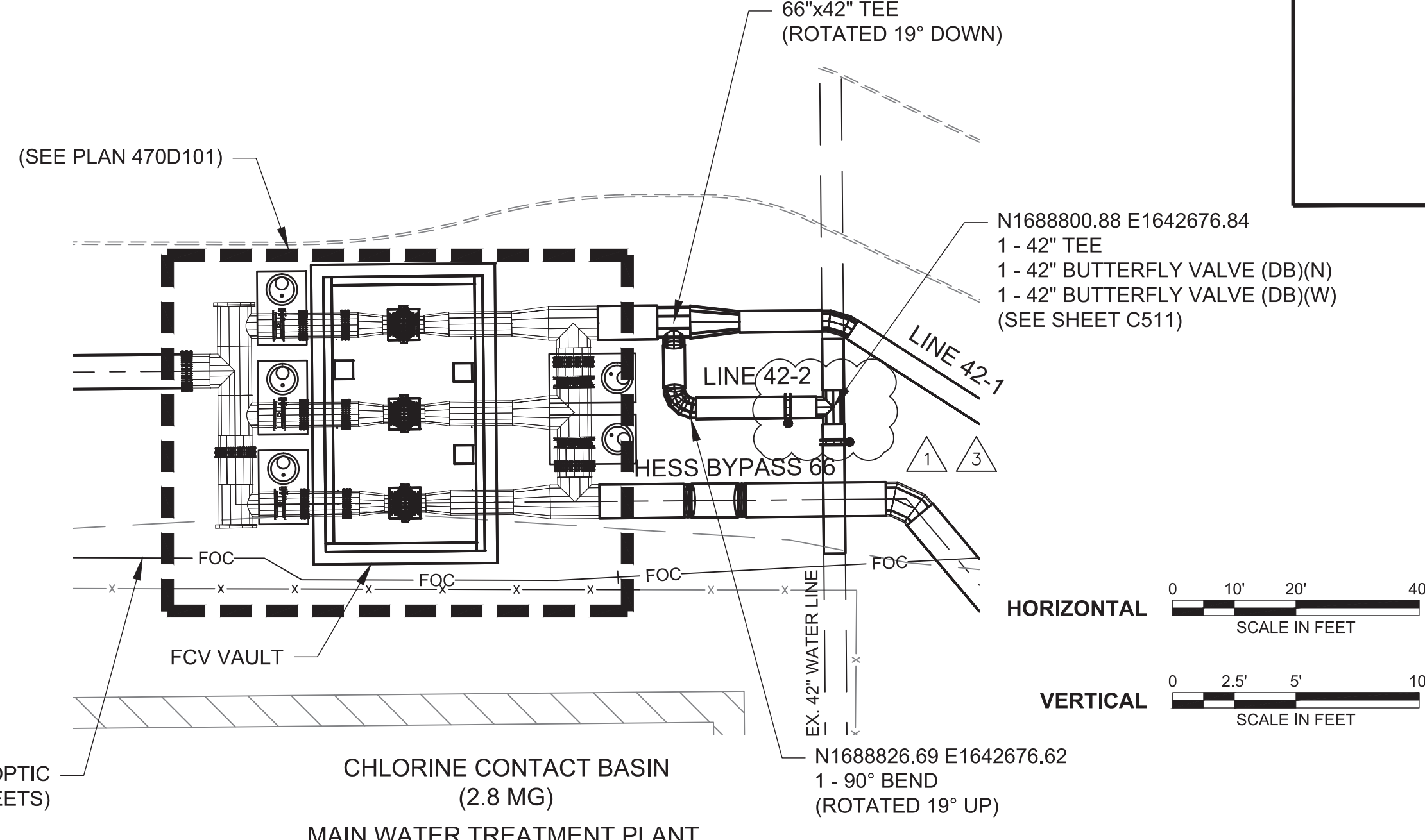
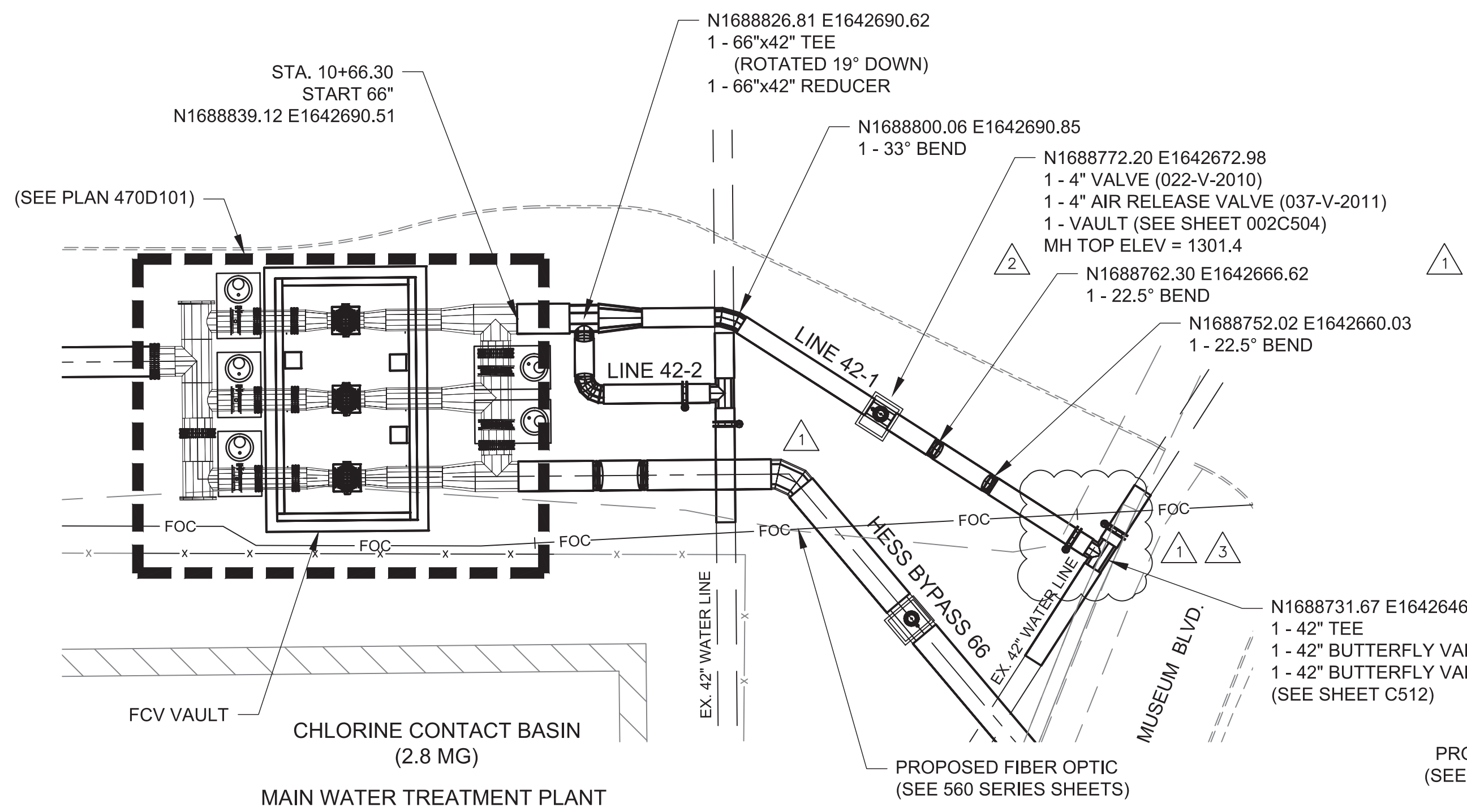
MKEC
Wichita, KS • 316.684.9600
LICENSE NO. E-249

date	FEB. 8, 2021	detailed	J. CODY
designed	D. LANCASTER	checked	S. FRANK

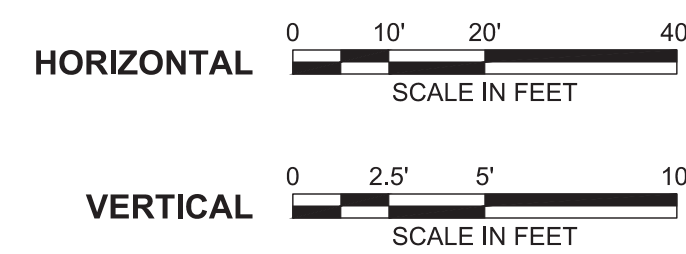
CITY OF WICHITA

SEDGWICK COUNTY, KANSAS	
NORTHWEST WATER TREATMENT FACILITY	
OFF-SITE PIPING	
HESS BYPASS	
STA. 30+00.00 TO 34+17.20	
project	114461
contract	
drawing	050C715 - 3
sheet	of sheets
file	114461_050_C715.dwg





no.	date	by	ckd	description
0	11/12/21	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION
1	1/14/22	MAB	SLF	ADDED VALVE NUMBERS
	1/18/22	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION
2	5/6/22	MAB	SLF	REVISED PER DCN 22
	5/6/22	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION
3	9/2/22	MAB	SLF	REVISED PER DCN 65
	9/2/22	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION



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WATER PARTNERS

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LICENSE NO. E-249

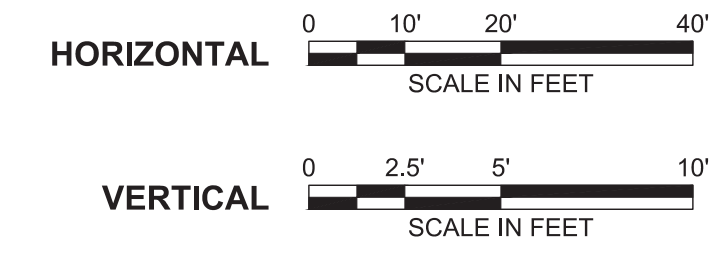
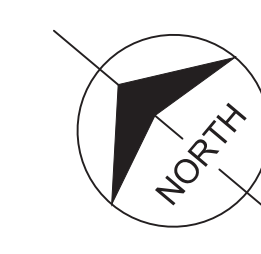
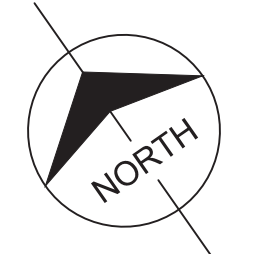
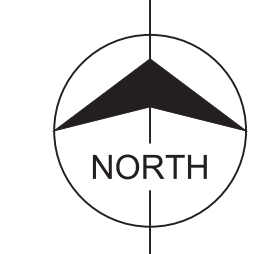
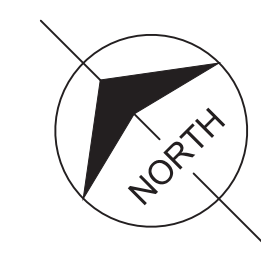
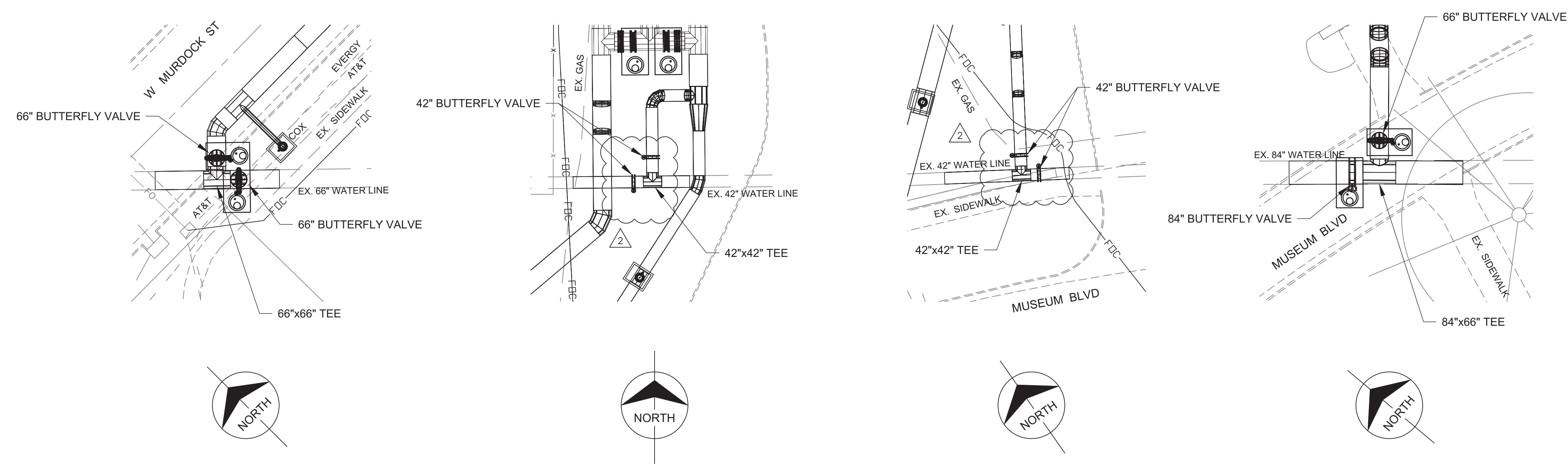
date	APR. 12, 2021	detailed	J. CODY
designed	D. LANCASTER	checked	S. FRANK

CITY OF WICHITA

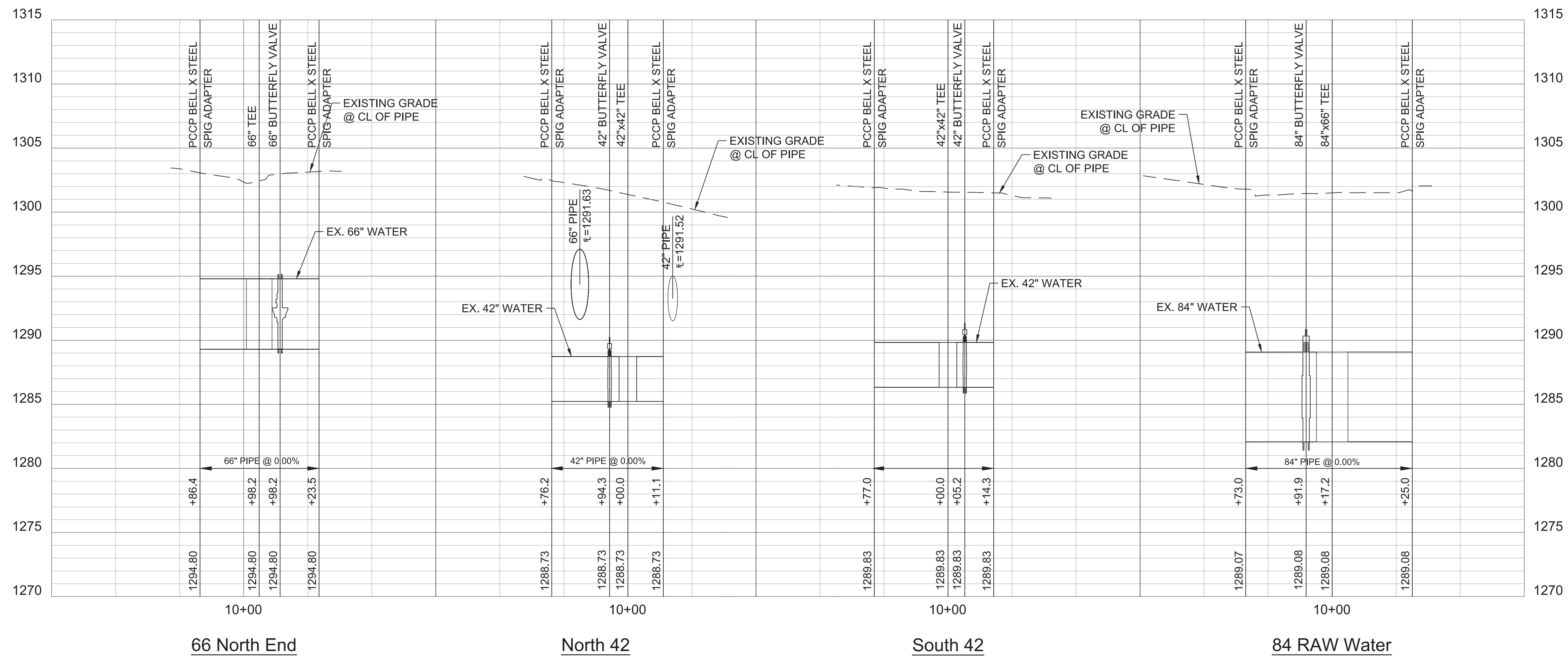
SEDGWICK COUNTY, KANSAS

NORTHWEST WATER TREATMENT FACILITY	
OFF-SITE PIPING	
42" CONNECTION LINES 1 & 2	
project	contract
114461	
drawing	rev.
050C716	3
sheet	of sheets
114461_050_C716.dwg	





REFER TO SHEETS 050C510 - 050C513 FOR CONNECTION DETAILS



66 North End

North 42

South 42

84 RAW Water

no.	date	by	ckd	description
0	11/12/21	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION
1	5/6/22	MAB		REVISED PER DCN 22
	5/6/22	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION
2	9/2/22	MAB		REVISED PER DCN 65
	9/2/22	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION

wichita
WATER PARTNERS

MKEC
Wichita, KS • 316.684.9600
LICENSE NO. E-249

date JULY 2, 2021	detailed J. CODY
designed D. LANCASTER	checked S. FRANK

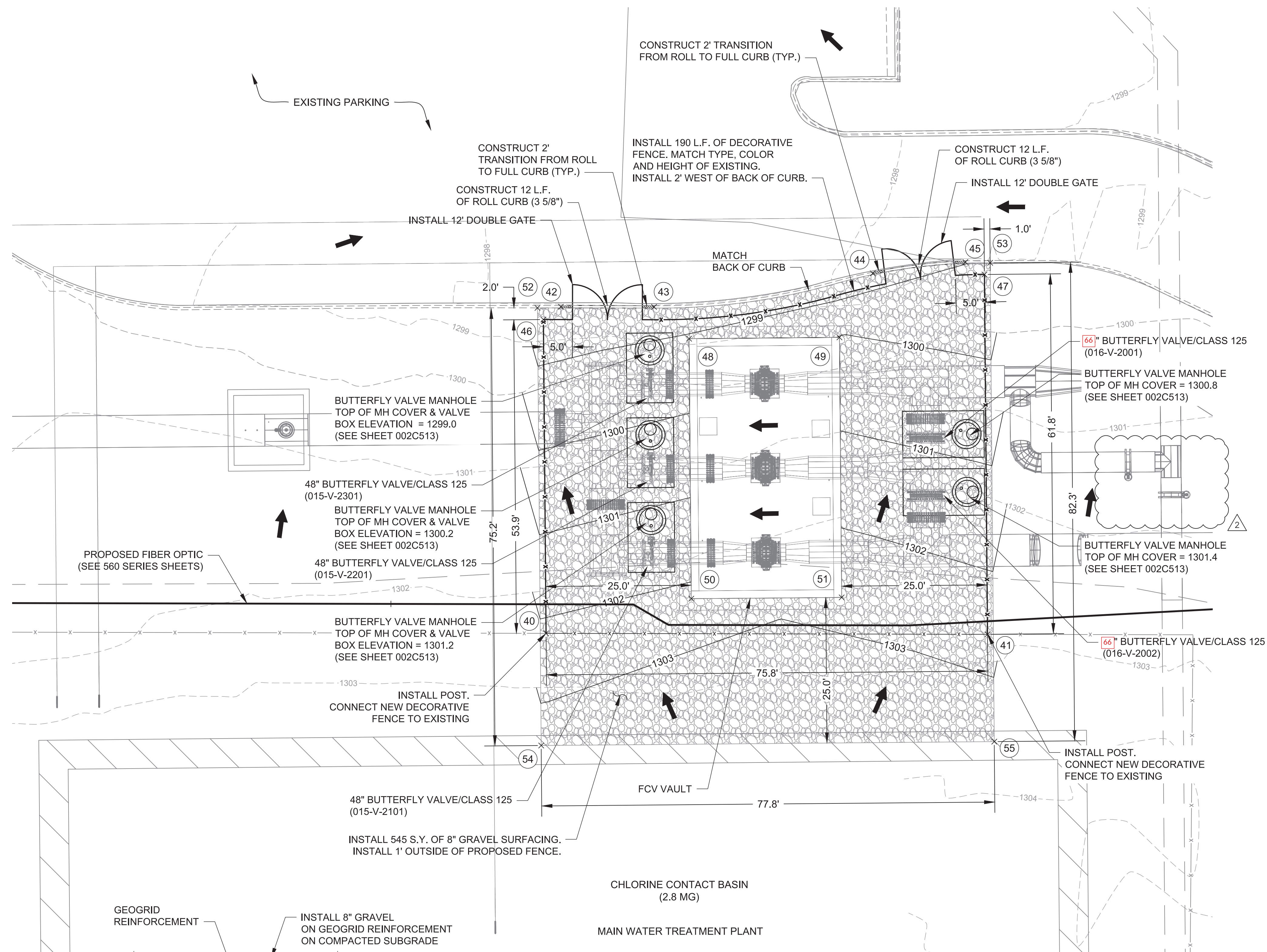


SEDGWICK COUNTY, KANSAS

NORTHWEST WATER TREATMENT FACILITY
OFF-SITE PIPING
CONNECTION
PLAN & PROFILES

project 114461	contract
drawing 050C717	rev. 2
sheet	of sheets
file 114461_050_C717.dwg	



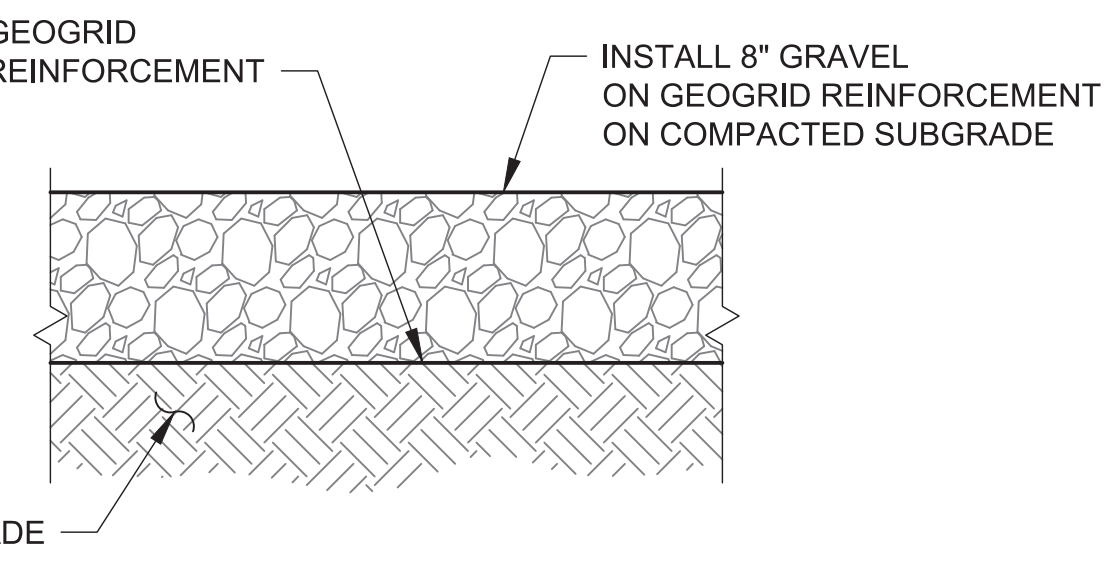
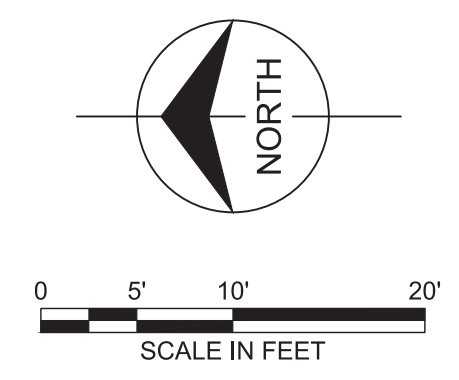


Point Table

Point #	Northing	Easting	Elevation	Description
40	1688908.24	1642647.34	1302.19	FENCE
41	1688832.40	1642647.18	1302.61	FENCE
42	1688905.69	1642703.45	1298.21	CURB
43	1688889.69	1642703.42	1298.11	CURB
44	1688852.11	1642709.19	1298.64	CURB
45	1688836.21	1642711.13	1299.00	CURB
46	1688908.69	1642701.25	1298.46	FENCE
47	1688832.93	1642708.99	1299.20	FENCE
48	1688883.67	1642697.96	1299.11	FCV VAULT
49	1688857.84	1642698.19	1300.03	FCV VAULT
50	1688883.29	1642653.30	1302.20	FCV VAULT
51	1688857.46	1642653.52	1302.72	FCV VAULT
52	1688909.71	1642703.25	1298.31	GRAVEL
53	1688831.95	1642710.99	1299.08	GRAVEL
54	1688909.08	1642628.07	1303.50	GRAVEL
55	1688831.24	1642628.75	1303.61	GRAVEL

LEGEND

- x— PROPOSED FENCE
- - 1230 - - EXISTING CONTOUR
- 1230— PROPOSED CONTOUR
- ==== EXISTING CURB
- ===== PROPOSED CURB
- X" GRAVEL
- ⊗ # TREE REMOVAL
- ← FLOW ARROW



GRAVEL SURFACING DETAIL (A)

no.	date	by	ckd	description
0	11/12/21	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION
1	5/6/22	MAB		REVISED PER DCN 22
	5/6/22	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION
2	9/2/22	MAB		REVISED PER DCN
	9/2/22	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION

wichita WATER PARTNERS

MKEC
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LICENSE NO. E-249

date	SEPT. 2, 2021	detailed	J. CODY
designed	D. LANCASTER	checked	S. FRANK

CITY OF WICHITA

SEDGWICK COUNTY, KANSAS

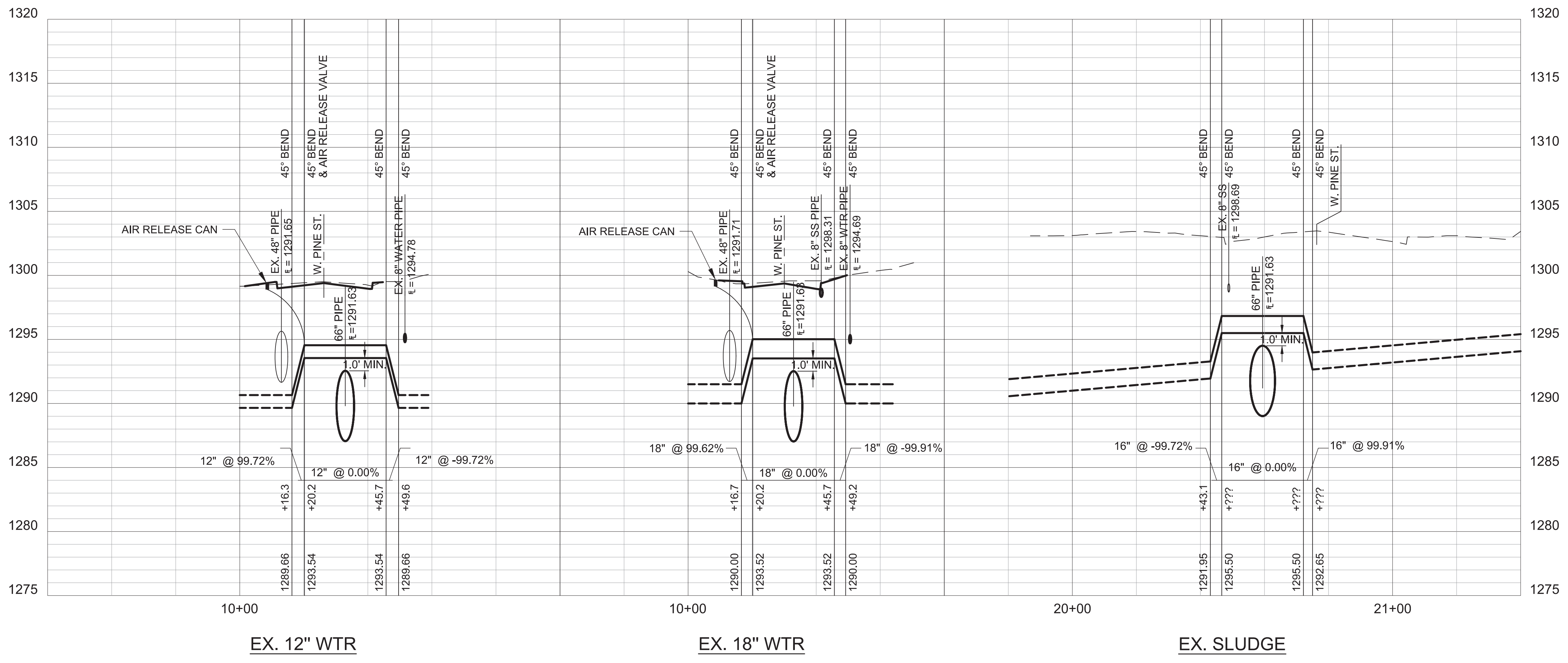
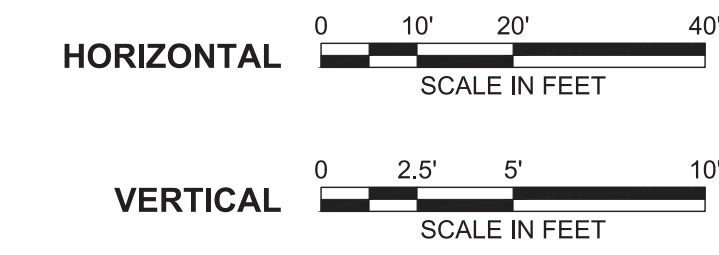
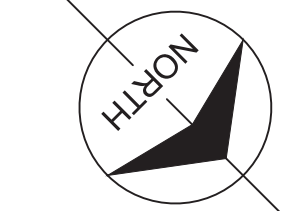
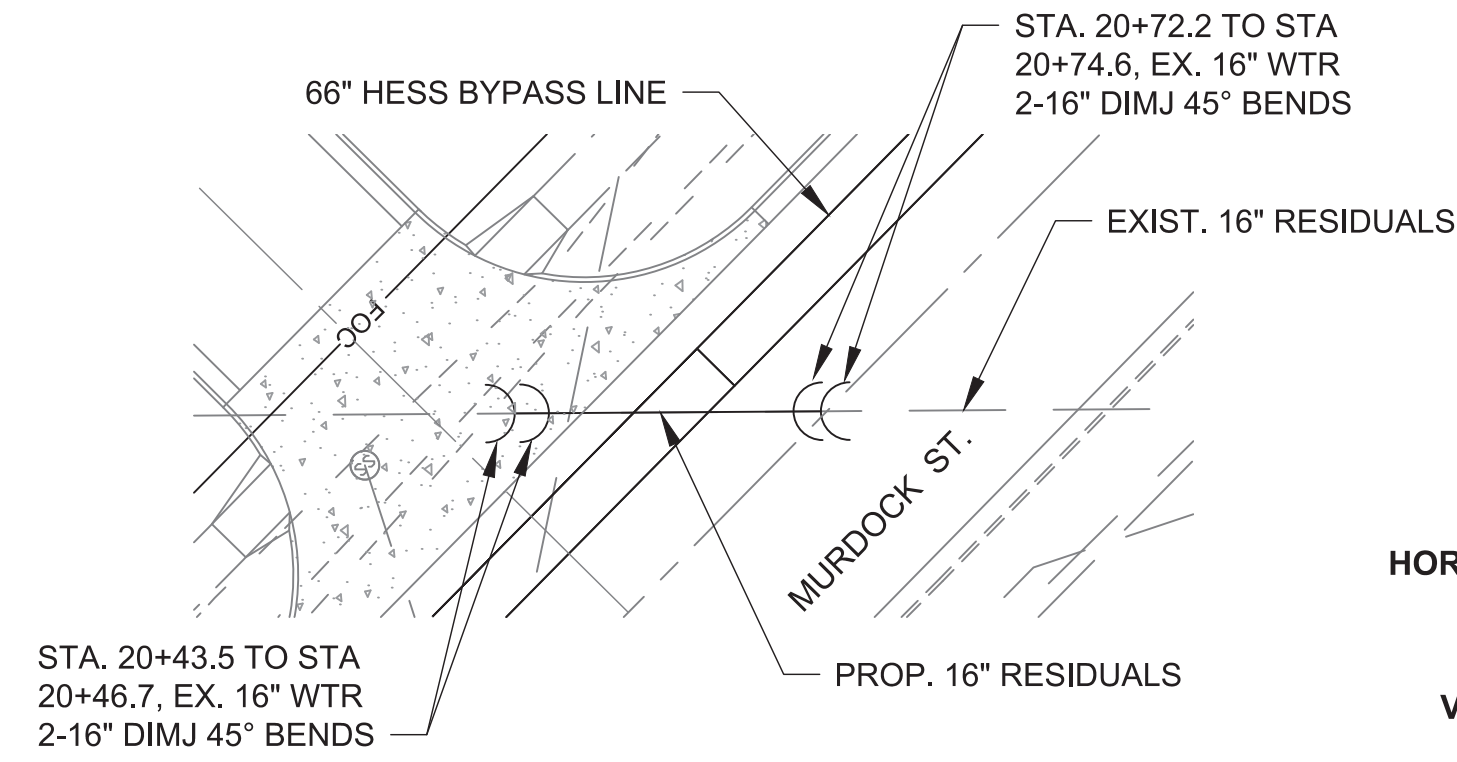
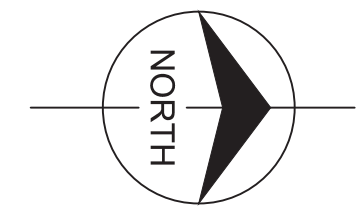
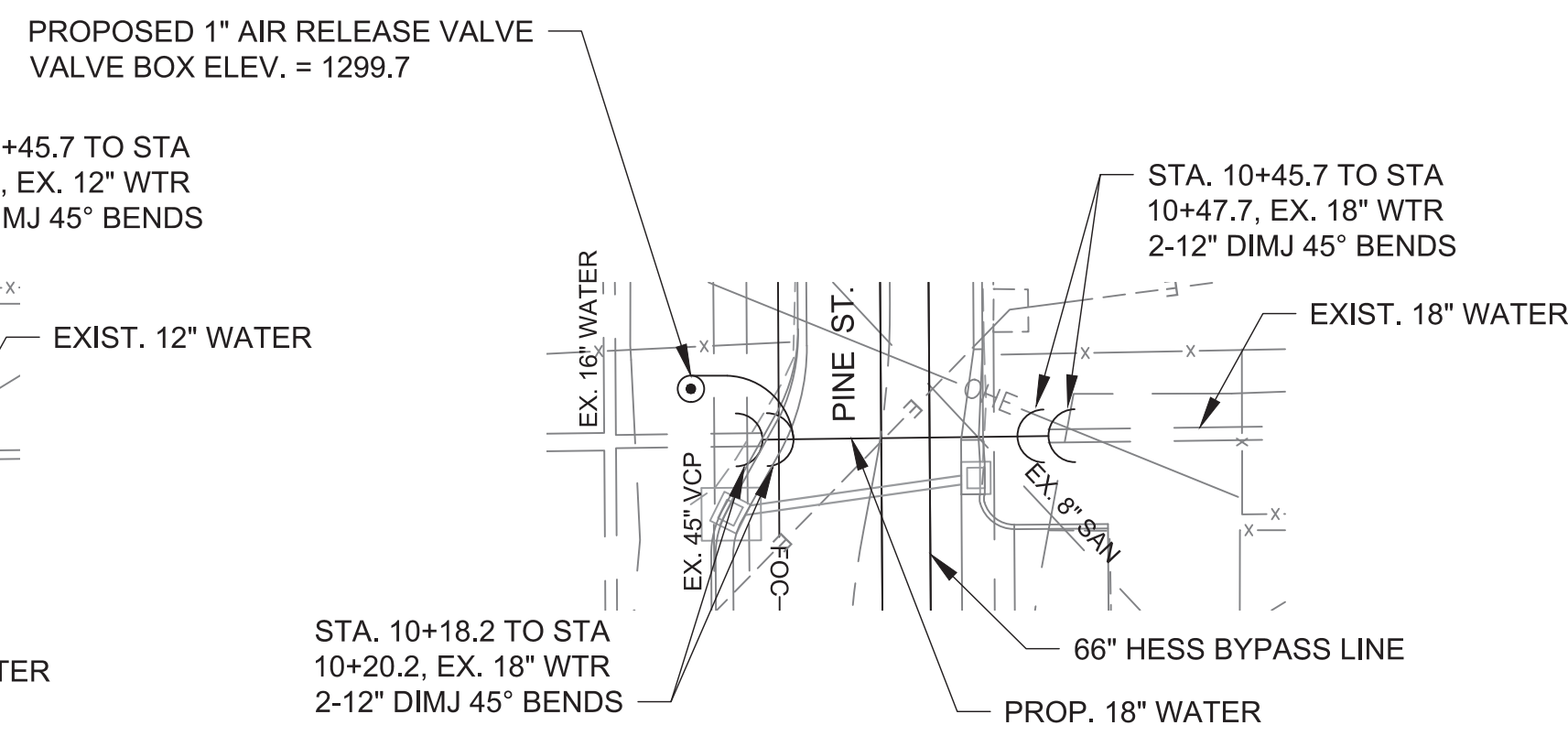
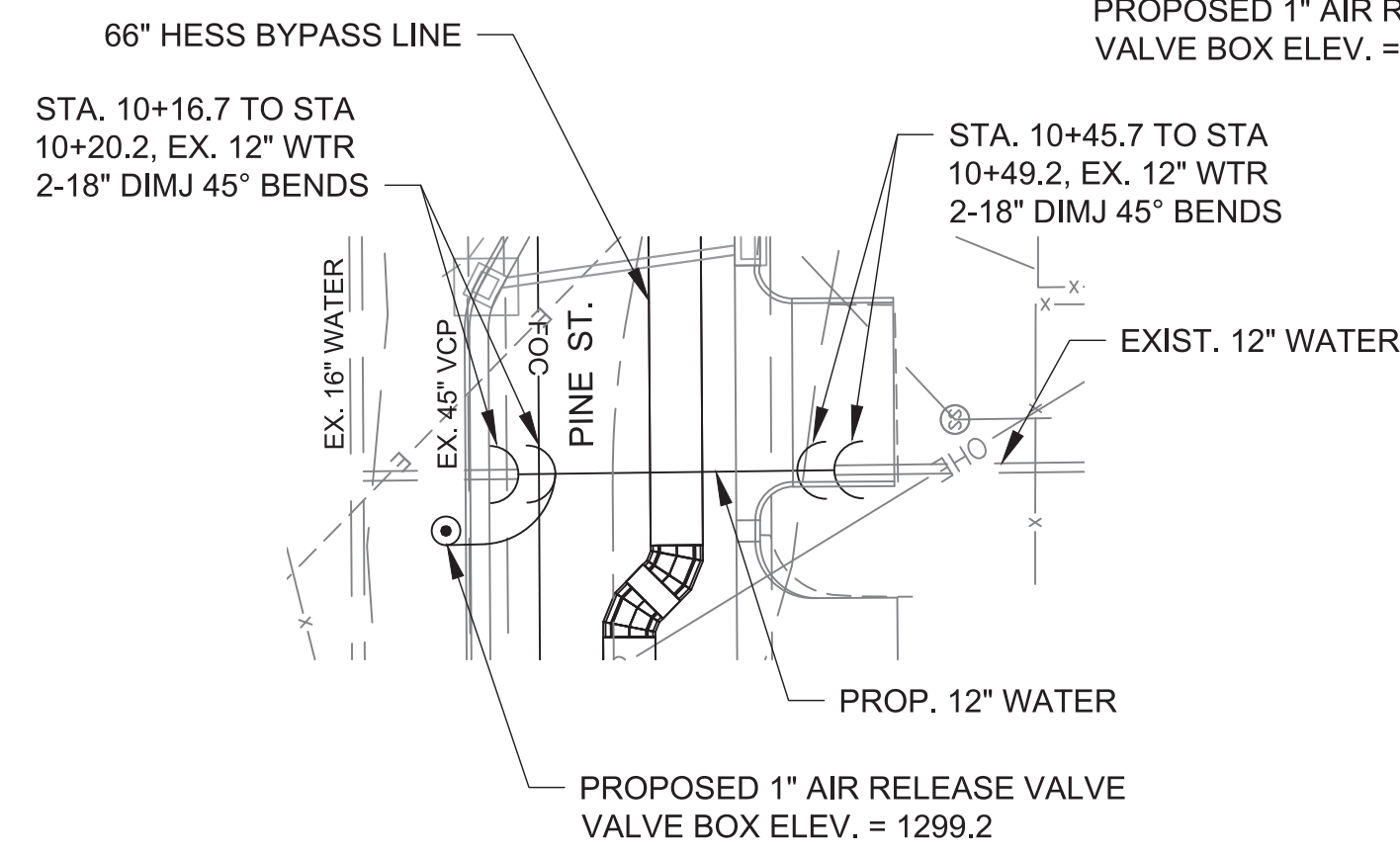
NORTHWEST WATER TREATMENT FACILITY
OFF-SITE PIPING
FCV VAULT
SITE PLAN

project	114461	contract	
drawing	050C718	rev.	2
sheet	of	sheets	

file 114461_050_C718.dwg



△



no.	date	by	ckd	description
0	5/6/22	MAB		REVISED PER DCN 22
0	5/6/22	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION

wichita
WATER PARTNERS

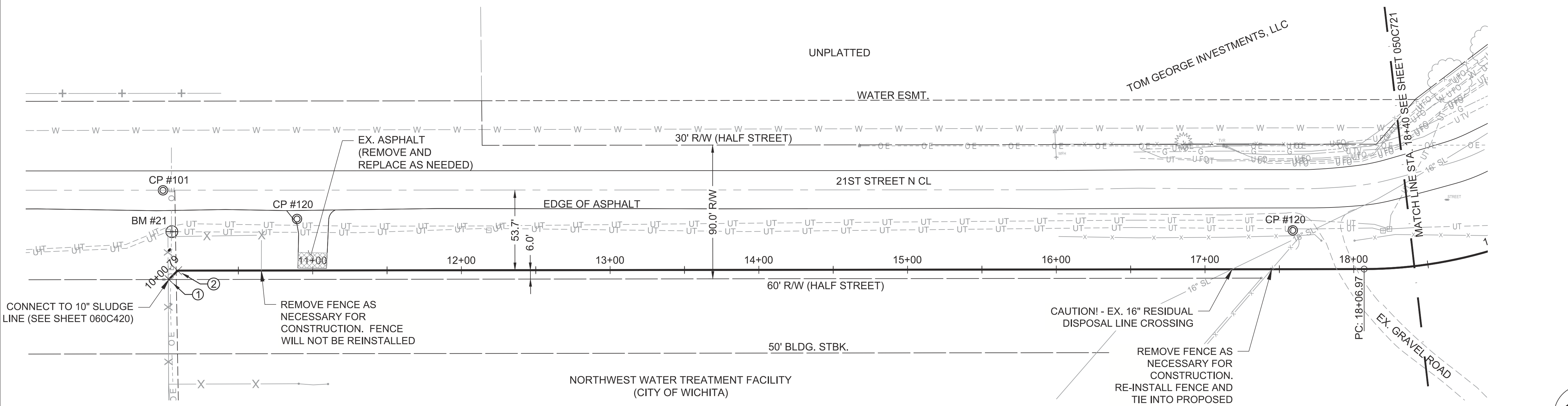
MKEC
Wichita, KS • 316.684.9600
LICENSE NO. E-249

date	APRIL 14, 2022	detailed	J. CODY
designed	D. LANCASTER	checked	S. FRANK

CITY OF WICHITA
SEDGWICK COUNTY, KANSAS

NORTHWEST WATER TREATMENT FACILITY OFF-SITE PIPING UTILITY CONFLICTS	
project	contract
114461	
drawing	rev.
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sheet	of sheets
114461_050_C719.dwg	

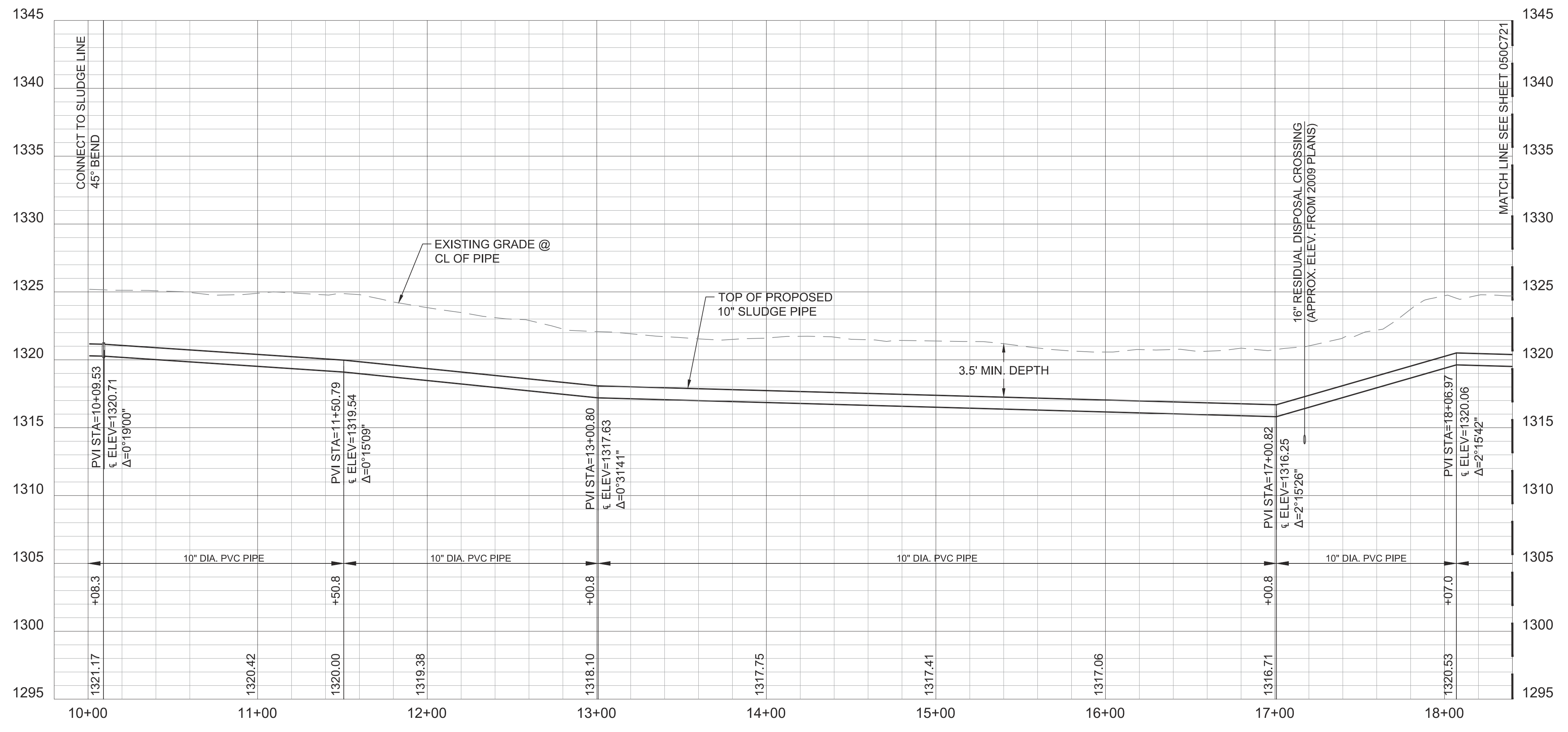
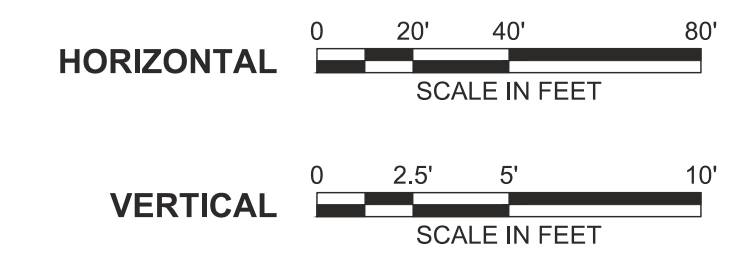




LEGEND

- W- -W- -W- EXISTING WATER LINE
- G- -G- -G- EXISTING GAS LINE
- UFO- -UFO- -UFO- EXISTING UNDERGROUND FIBER OPTIC LINE
- UT- -UT- -UT- EXISTING UNDERGROUND TELEPHONE LINE
- X- -X- -X- EXISTING FENCE
- OE- -OE- -OE- EXISTING OVERHEAD ELECTRIC LINE
- 16\"/>

BEND POINT TABLE			
NUMBER	NORTHING	EASTING	DISCIPTION
1	1698904.83	1630800.45	45° BEND
2	1698910.77	1630806.30	45° BEND



10 IN SLUDGE LINE

no.	date	by	ckd	description
0	11/12/21	KDA	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION

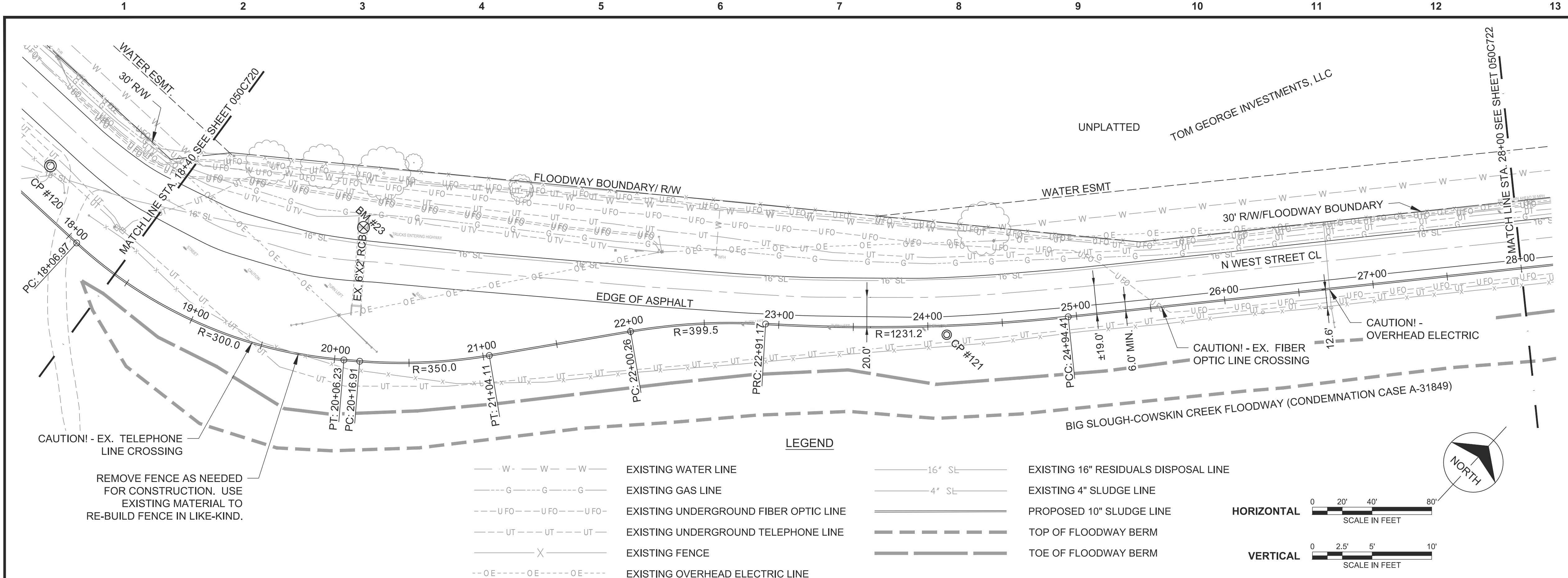


date	JAN. 26, 2021	detailed	J. CODY
designed	D. LANCASTER	checked	S. FRANK



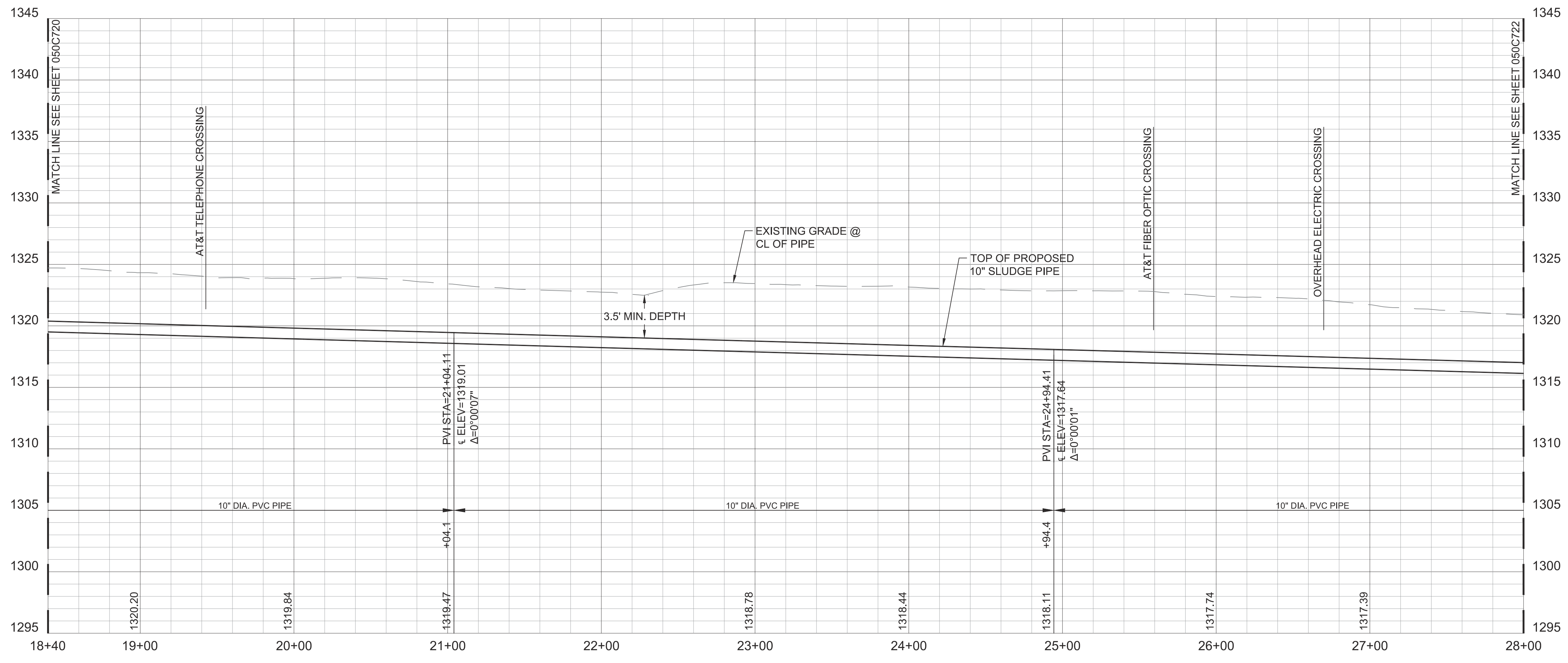
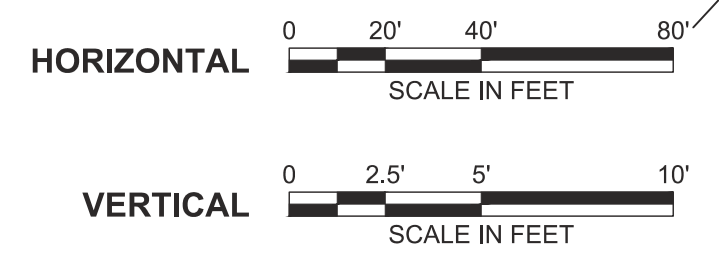
NORTHWEST WATER TREATMENT FACILITY	
OFF-SITE PIPING	
SLUDGE LINE	
STA. 10+00.00 TO 18+40.00	
project	contract
114461	
drawing	rev.
050C720	0
sheet	of sheets
114461_050_C720.dwg	





LEGEND

— W — W — W —	EXISTING WATER LINE	— 16" SL —	EXISTING 16" RESIDUALS DISPOSAL LINE
— G — G — G —	EXISTING GAS LINE	— 4" SL —	EXISTING 4" SLUDGE LINE
--- UFO --- UFO --- UFO ---	EXISTING UNDERGROUND FIBER OPTIC LINE	=====	PROPOSED 10" SLUDGE LINE
--- UT --- UT --- UT ---	EXISTING UNDERGROUND TELEPHONE LINE	-----	TOP OF FLOODWAY BERM
— X —	EXISTING FENCE	=====	TOE OF FLOODWAY BERM
--- OE --- OE --- OE ---	EXISTING OVERHEAD ELECTRIC LINE		



10 IN SLUDGE LINE

no.	date	by	ckd	description
0	11/12/21	KDA	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION

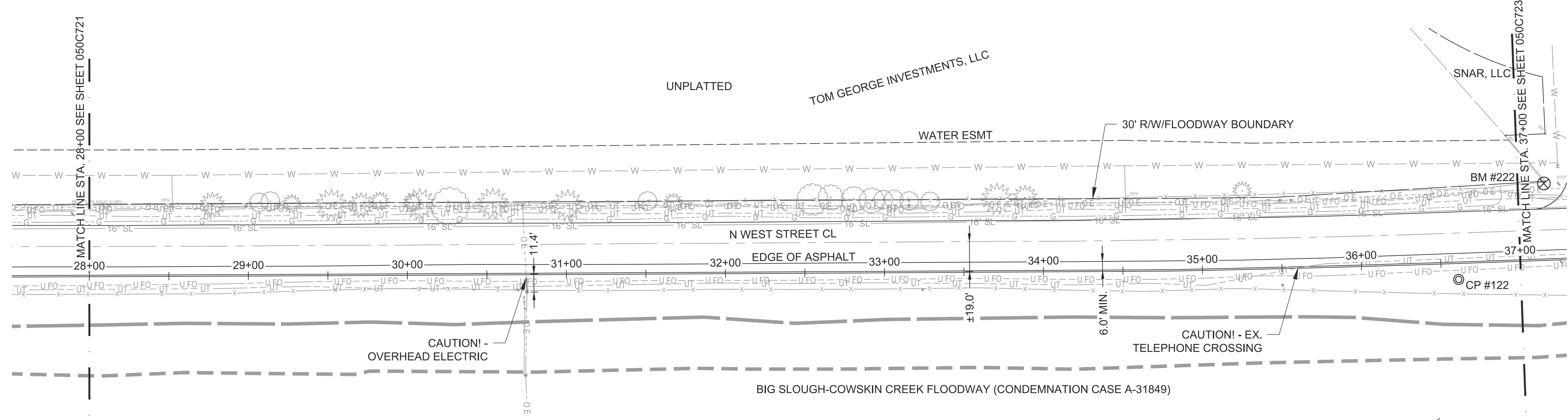


date	JAN. 26, 2021	detailed	J. CODY
designed	D. LANCASTER	checked	S. FRANK



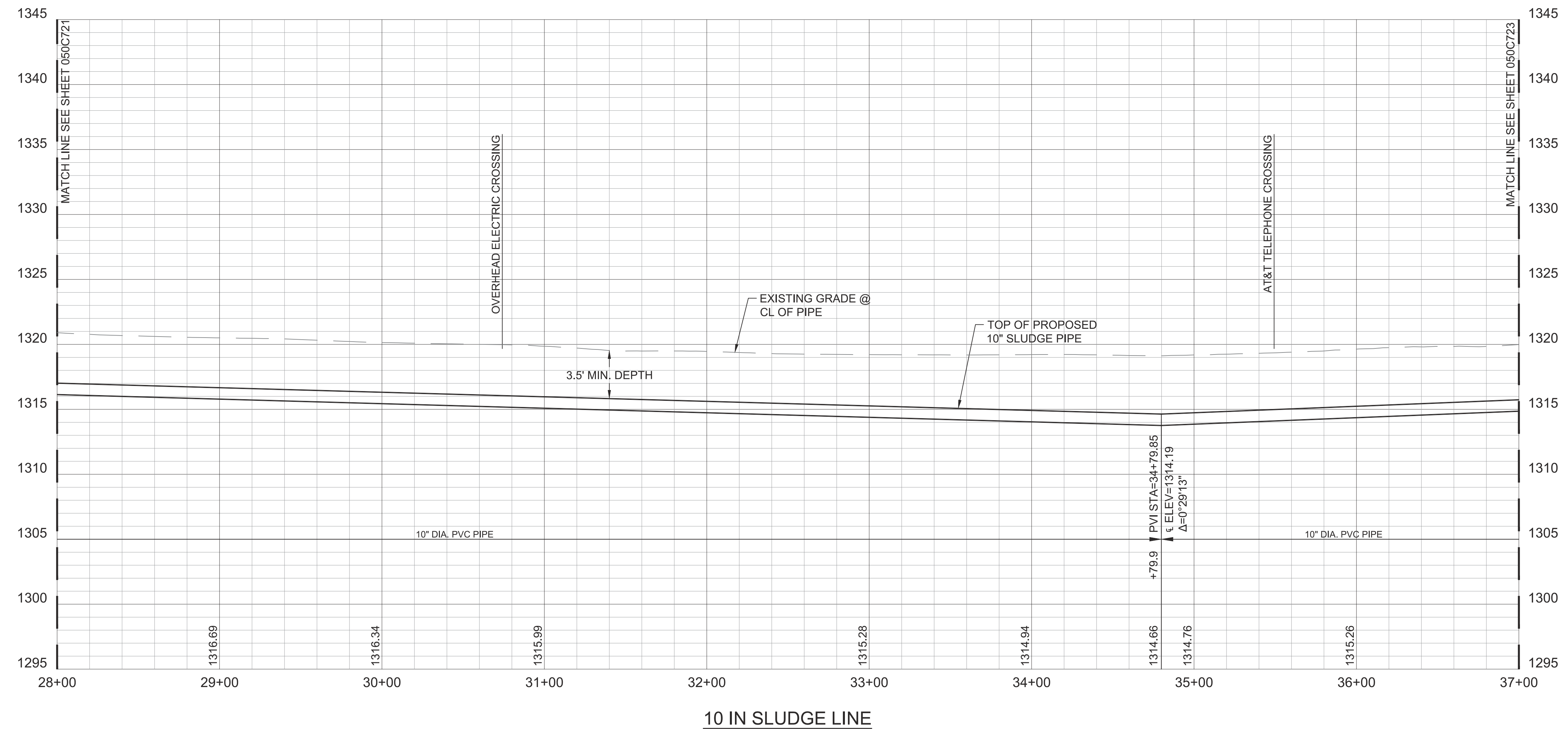
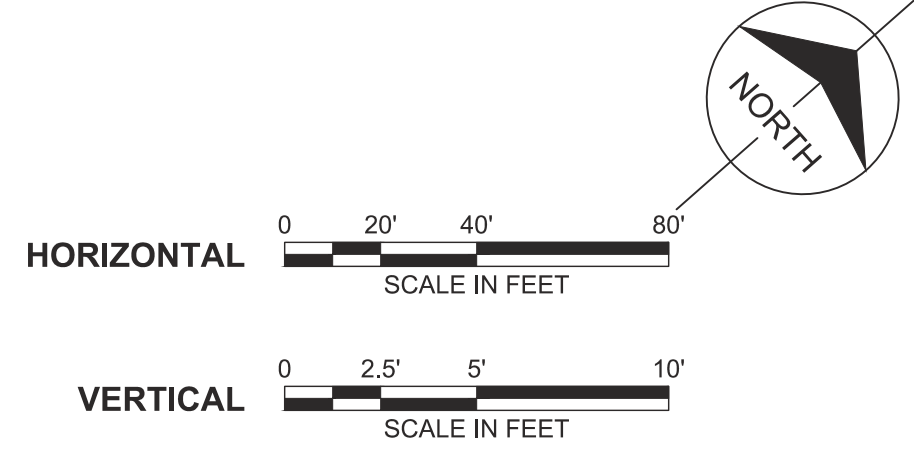
SEDGWICK COUNTY, KANSAS	
NORTHWEST WATER TREATMENT FACILITY	
OFF-SITE PIPING SLUDGE LINE STA. 18+40.00 TO STA. 28+00.00	
project	contract
114461	
drawing	rev.
050C721	0
sheet	of sheets
114461_050_C721.dwg	





LEGEND

— W — W — W —	EXISTING WATER LINE	— 16" SL —	EXISTING 16" RESIDUALS DISPOSAL LINE
— G — G — G —	EXISTING GAS LINE	— 4" SL —	EXISTING 4" SLUDGE LINE
— U FO — U FO — U FO —	EXISTING UNDERGROUND FIBER OPTIC LINE	— — — — —	PROPOSED 10" SLUDGE LINE
— UT — UT — UT —	EXISTING UNDERGROUND TELEPHONE LINE	— — — — —	TOP OF FLOODWAY BERM
— X — X — X —	EXISTING FENCE	— — — — —	TOE OF FLOODWAY BERM
— OE — OE — OE —	EXISTING OVERHEAD ELECTRIC LINE		



no.	date	by	ckd	description
0	11/12/21	KDA	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION

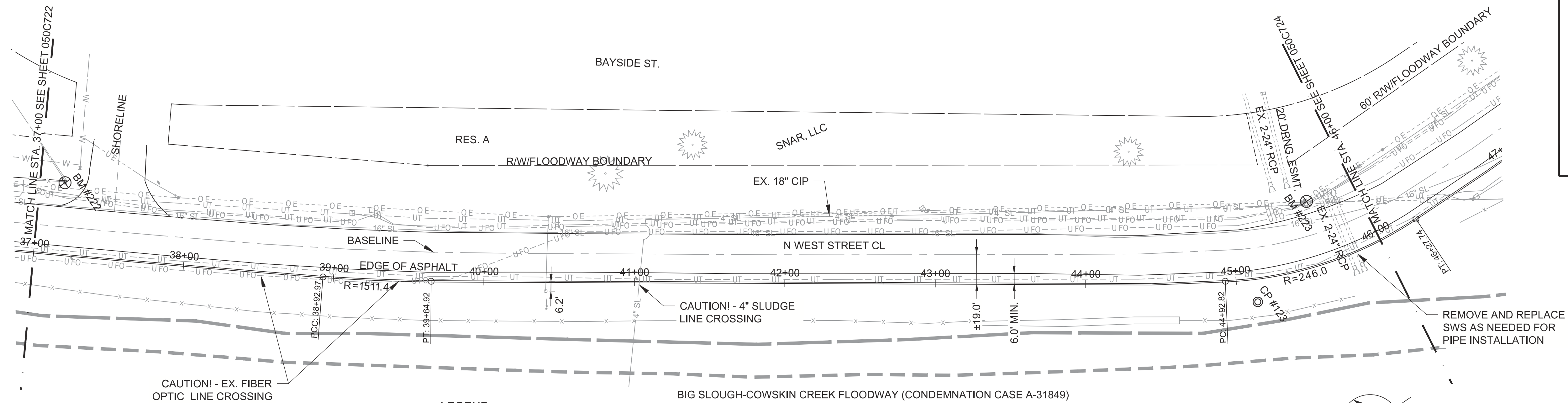


date	JAN. 26, 2021	detailed	J. CODY
designed	D. LANCASTER	checked	S. FRANK

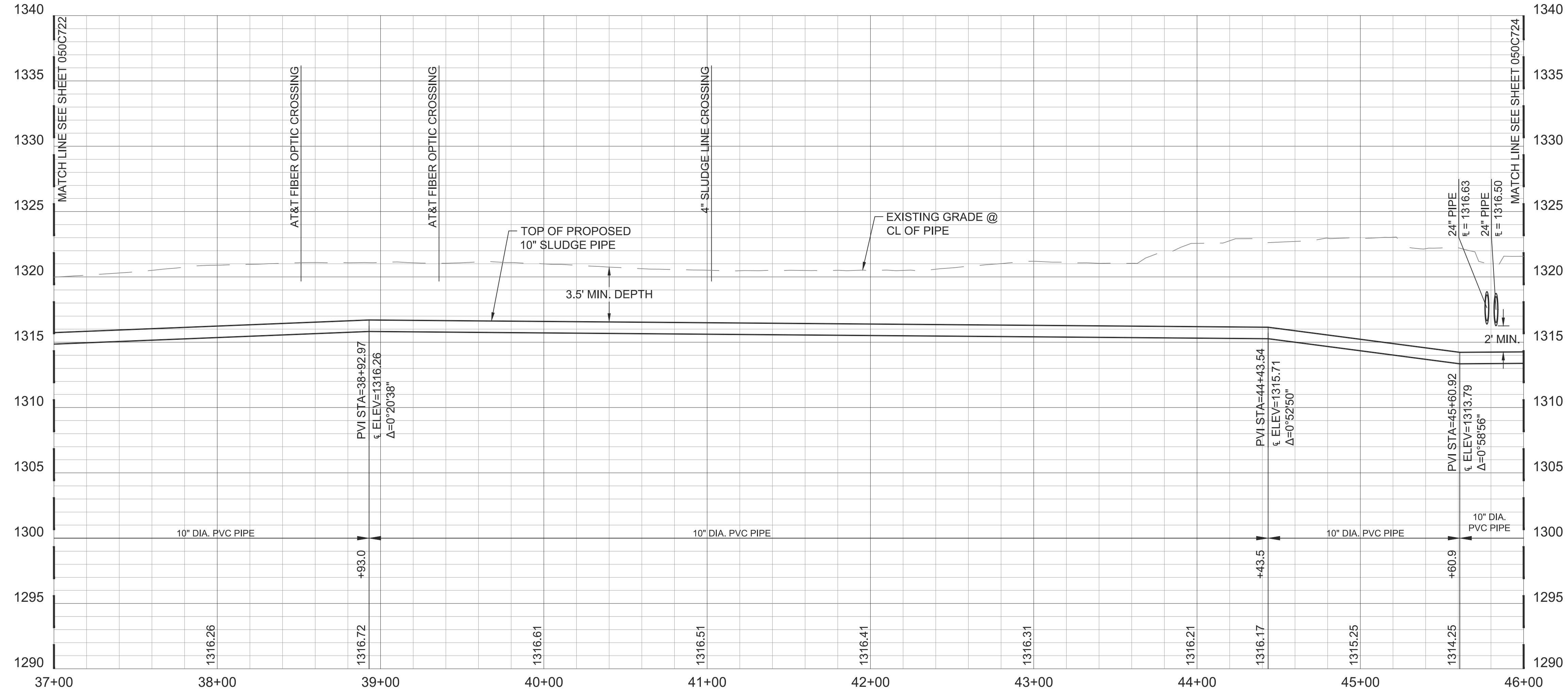
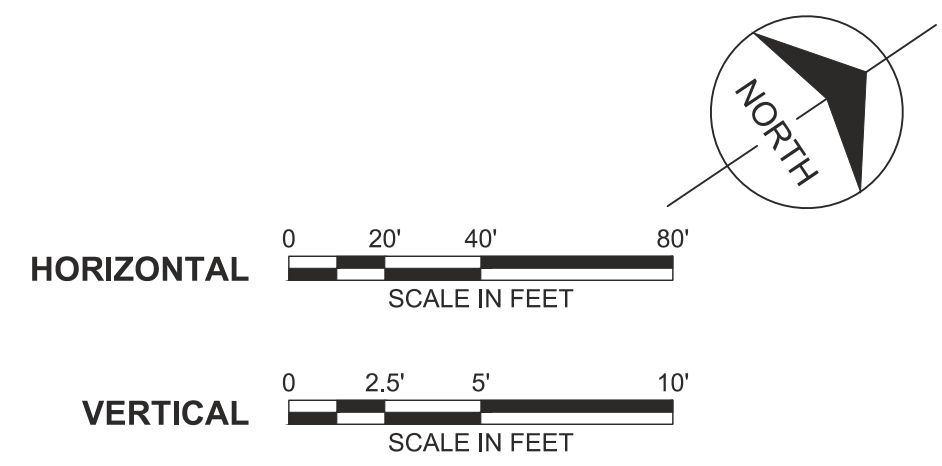


SEDGWICK COUNTY, KANSAS	
NORTHWEST WATER TREATMENT FACILITY	
OFF-SITE PIPING	
SLUDGE LINE	
STA. 28+00.00 TO STA. 37+00.00	
project	contract
114461	
drawing	rev.
050C722	0
sheet	of sheets
file 114461_050_C722.dwg	





- LEGEND**
- W — W — W — EXISTING WATER LINE
 - G — G — G — EXISTING GAS LINE
 - UFO --- EXISTING UNDERGROUND FIBER OPTIC LINE
 - UT --- EXISTING UNDERGROUND TELEPHONE LINE
 - X — EXISTING FENCE
 - OE --- EXISTING OVERHEAD ELECTRIC LINE
 - 16" SL — EXISTING 16" RESIDUALS DISPOSAL LINE
 - 4" SL — EXISTING 4" SLUDGE LINE
 - 10" SL — PROPOSED 10" SLUDGE LINE
 - — — — — TOP OF FLOODWAY BERM
 - — — — — TOE OF FLOODWAY BERM



10 IN SLUDGE LINE

no.	date	by	ckd	description
0	11/12/21	KDA	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION

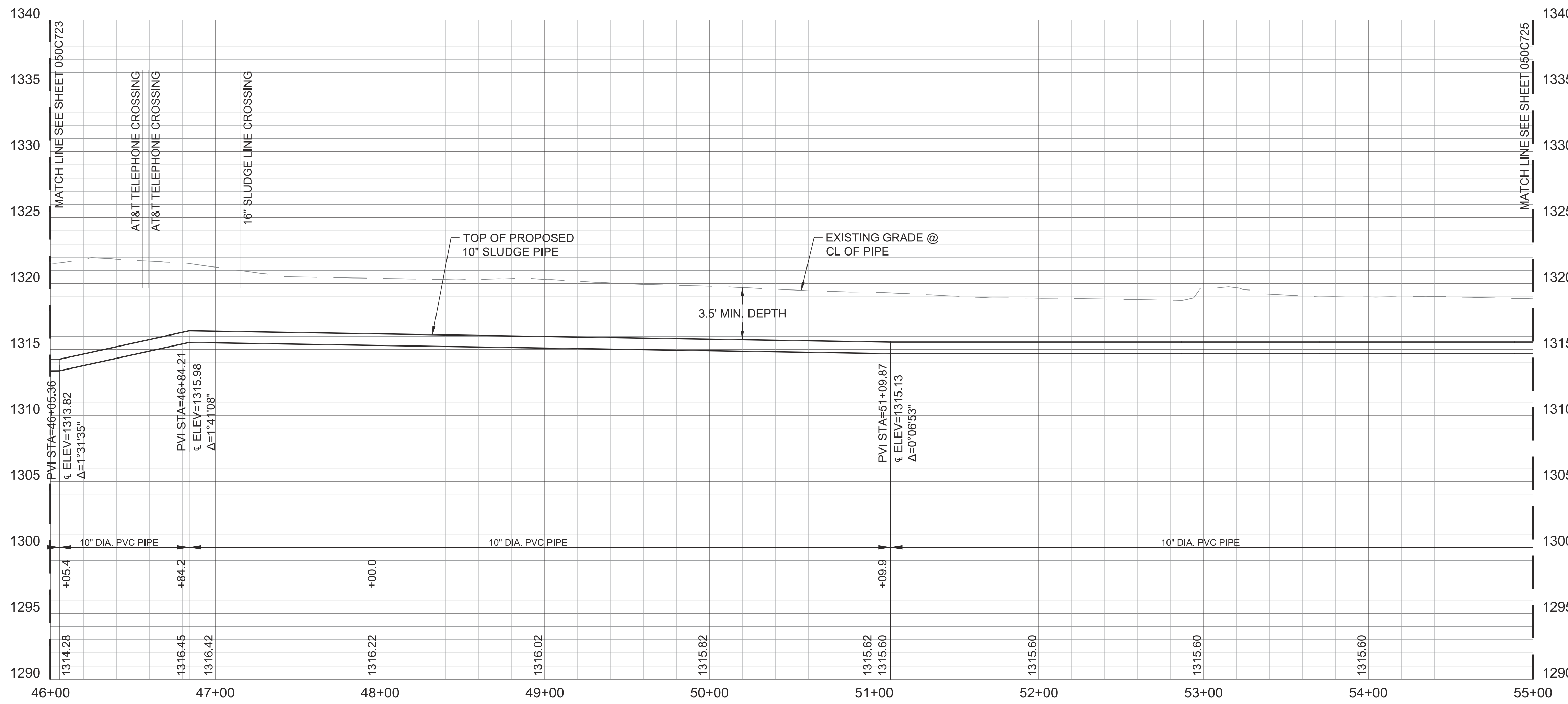
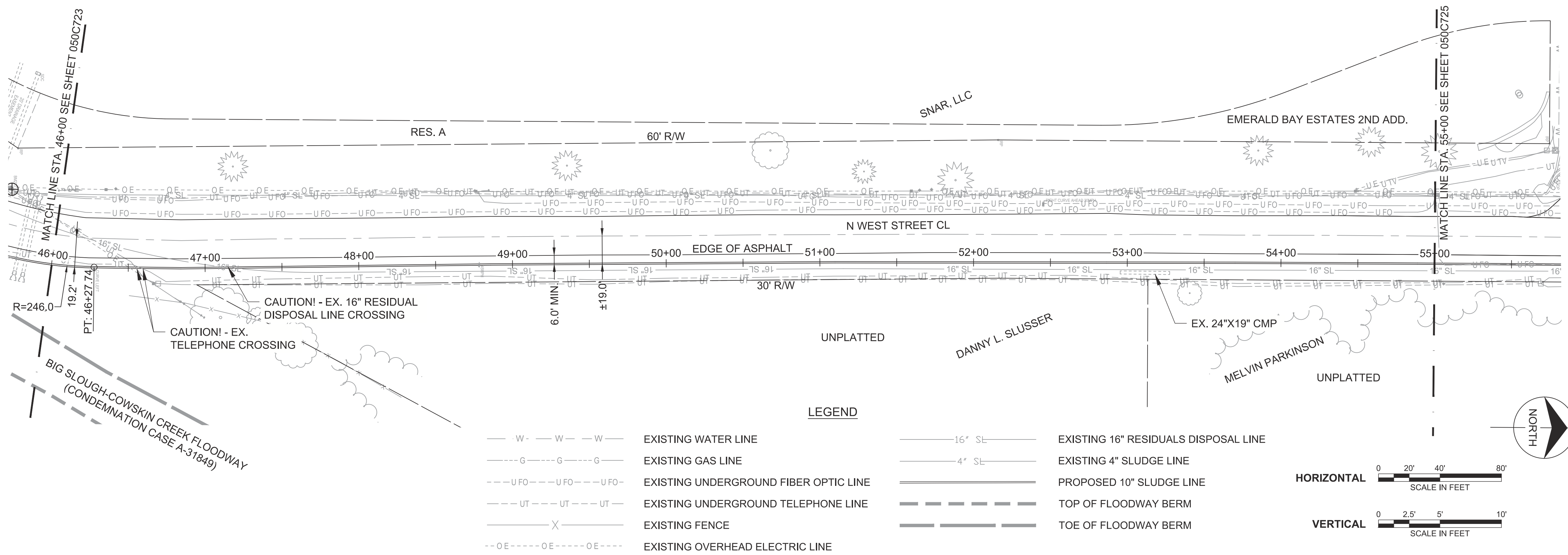


date	JAN. 26, 2021	detailed	J. CODY
designed	D. LANCASTER	checked	S. FRANK



SEDGWICK COUNTY, KANSAS	
NORTHWEST WATER TREATMENT FACILITY	
OFF-SITE PIPING	
SLUDGE LINE	
STA. 37+00.00 TO STA. 46+00.00	
project	contract
114461	
drawing	rev.
050C723	0
sheet	of sheets
file 114461_050_C723.dwg	





no.	date	by	ckd	description
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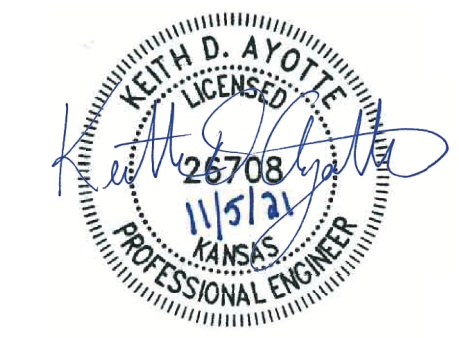


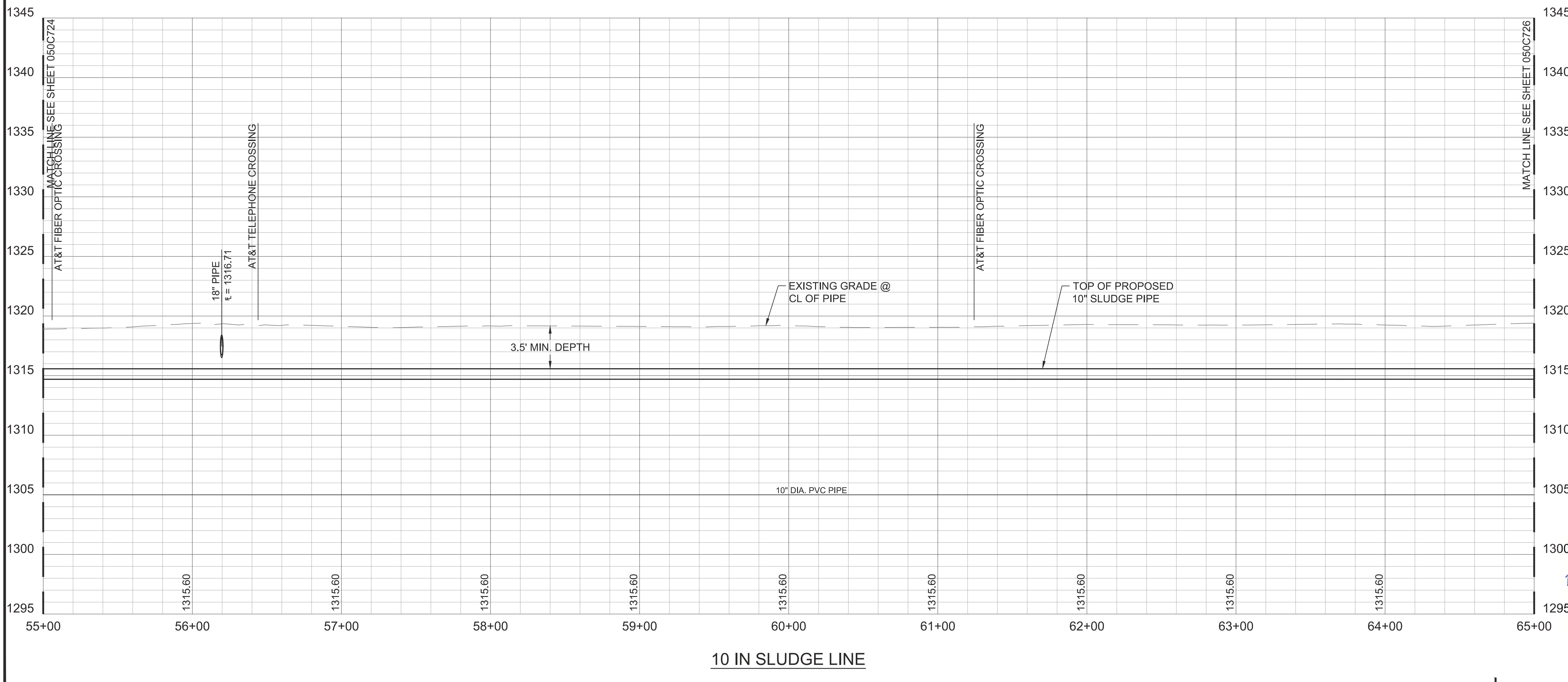
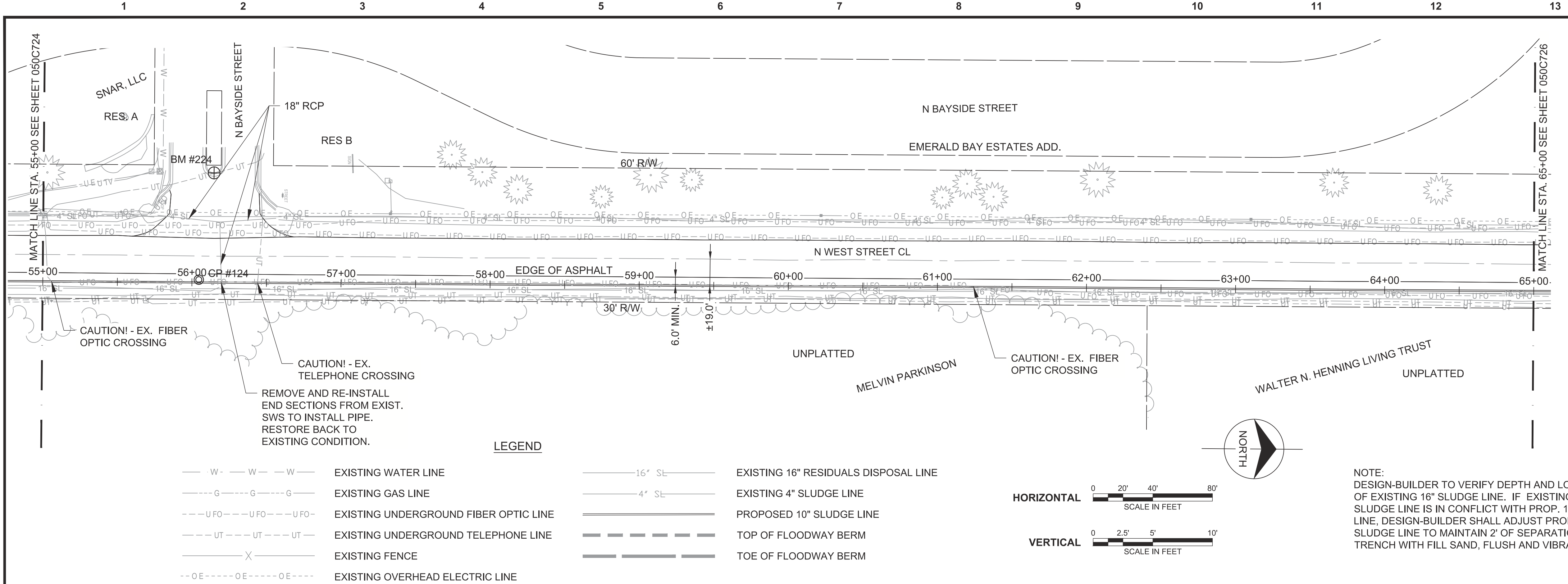
date	JAN. 26, 2021	detailed	J. CODY
designed	D. LANCASTER	checked	S. FRANK



SEDGWICK COUNTY, KANSAS

NORTHWEST WATER TREATMENT FACILITY	
OFF-SITE PIPING	
SLUDGE LINE	
STA. 46+00.00 TO STA. 55+00.00	
project	contract
114461	
drawing	rev.
050C724	0
sheet	of sheets
file 114461_050_C724.dwg	





no.	date	by	ckd	description
0	11/12/21	KDA	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION

NOTE:
 DESIGN-BUILDER TO VERIFY DEPTH AND LOCATION OF EXISTING 16" SLUDGE LINE. IF EXISTING 16" SLUDGE LINE IS IN CONFLICT WITH PROP. 10" SLUDGE LINE, DESIGN-BUILDER SHALL ADJUST PROP. 10" SLUDGE LINE TO MAINTAIN 2' OF SEPARATIONS. FILL TRENCH WITH FILL SAND, FLUSH AND VIBRATE.

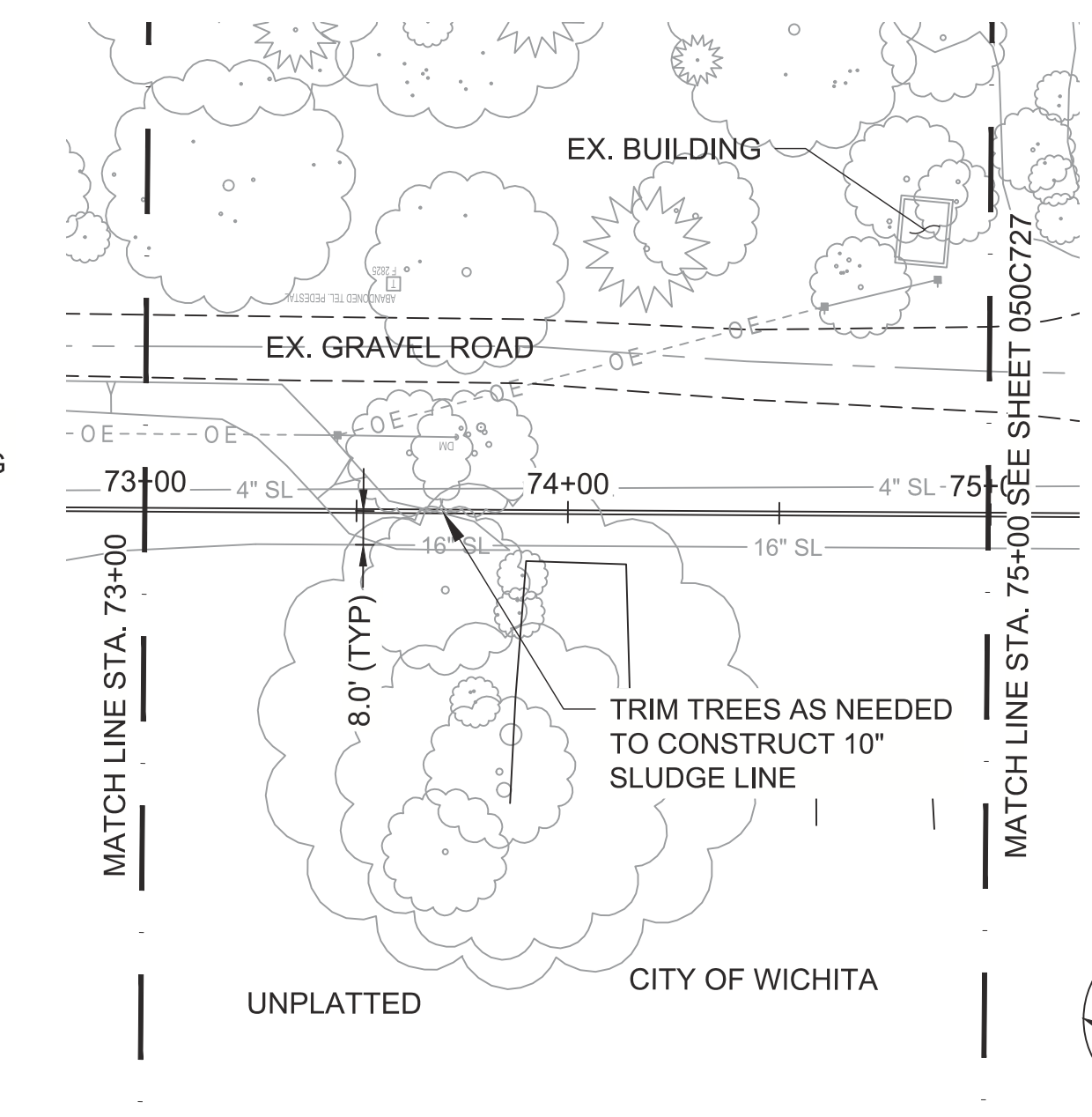
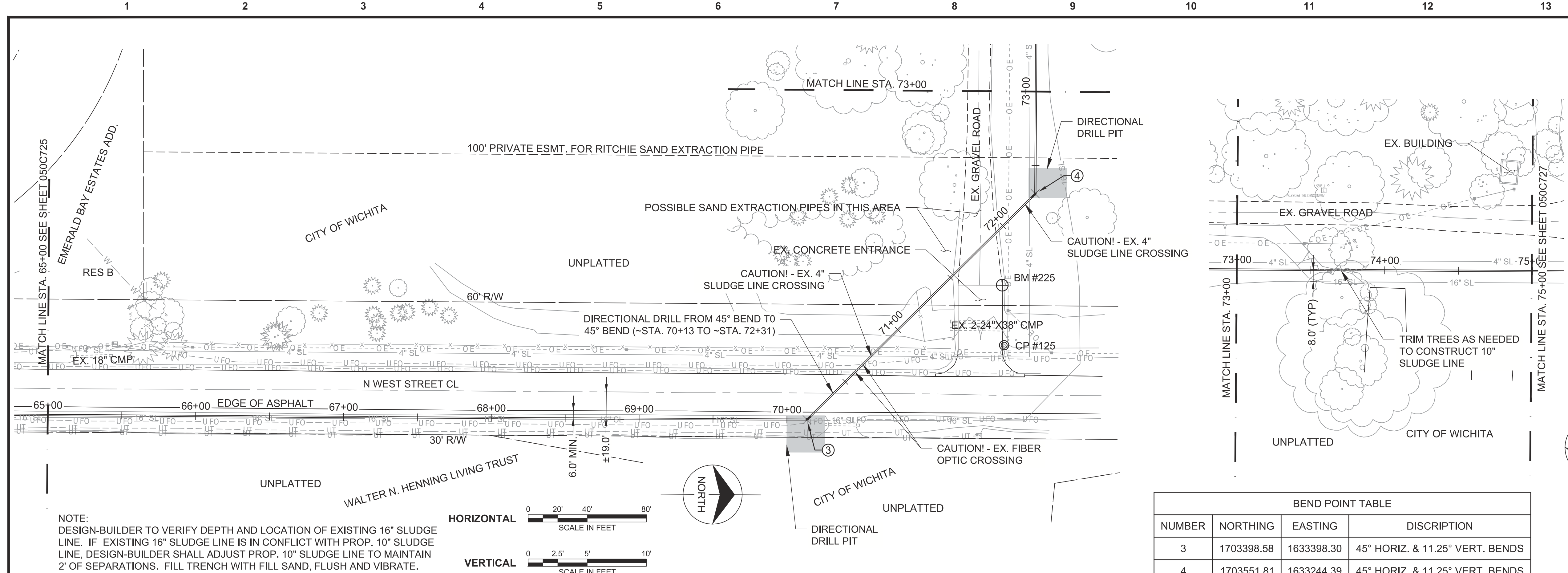


date	JAN. 26, 2021	detailed	J. CODY
designed	D. LANCASTER	checked	S. FRANK

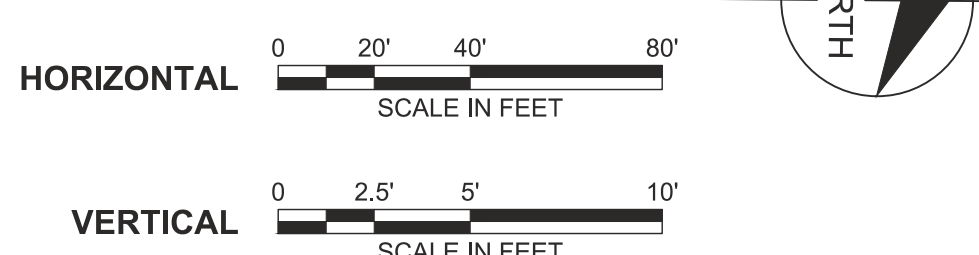


SEDGWICK COUNTY, KANSAS	
NORTHWEST WATER TREATMENT FACILITY	
OFF-SITE PIPING	
SLUDGE LINE	
STA. 55+00.00 TO STA. 65+00.00	
project	contract
114461	
drawing	rev.
050C725	0
sheet	of sheets
114461_050_C725.dwg	

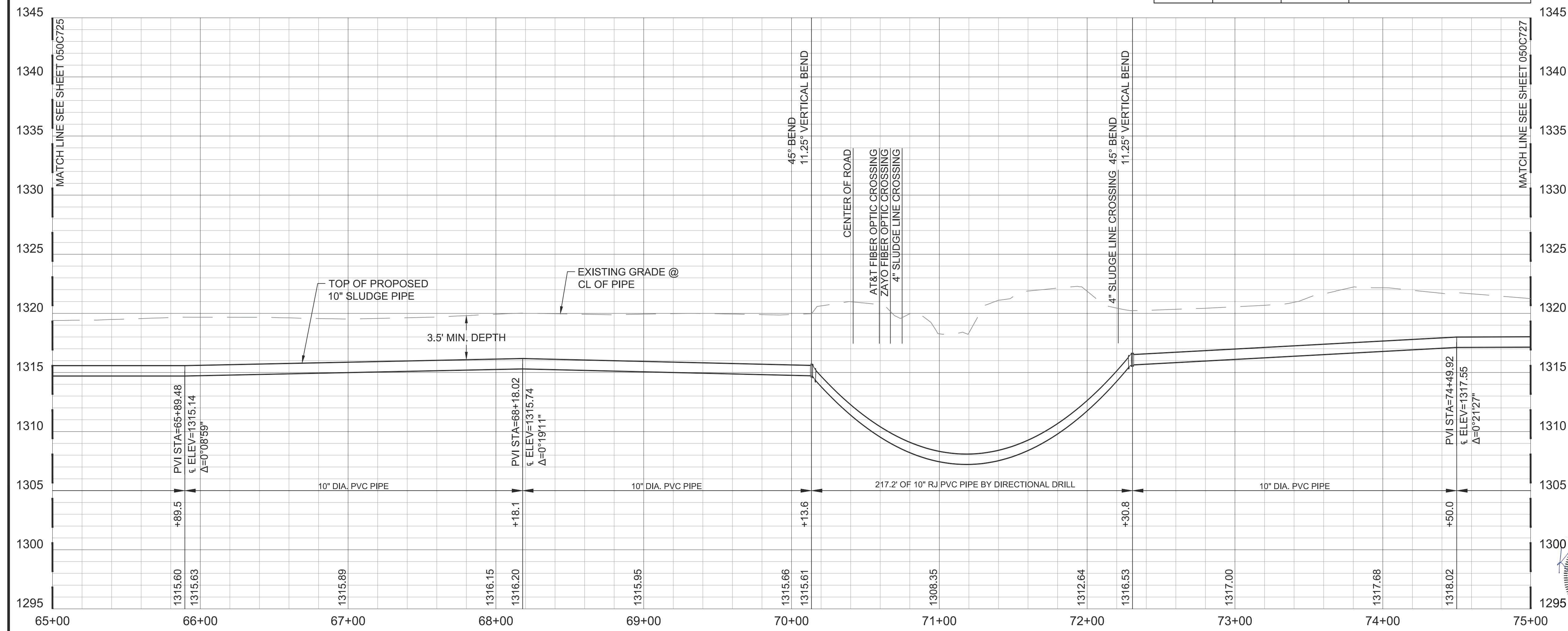




NOTE:
 DESIGN-BUILDER TO VERIFY DEPTH AND LOCATION OF EXISTING 16" SLUDGE LINE. IF EXISTING 16" SLUDGE LINE IS IN CONFLICT WITH PROP. 10" SLUDGE LINE, DESIGN-BUILDER SHALL ADJUST PROP. 10" SLUDGE LINE TO MAINTAIN 2' OF SEPARATIONS. FILL TRENCH WITH FILL SAND, FLUSH AND VIBRATE.



BEND POINT TABLE			
NUMBER	NORTHING	EASTING	DISCRIPTION
3	1703398.58	1633398.30	45° HORIZ. & 11.25° VERT. BENDS
4	1703551.81	1633244.39	45° HORIZ. & 11.25° VERT. BENDS



10 IN SLUDGE LINE

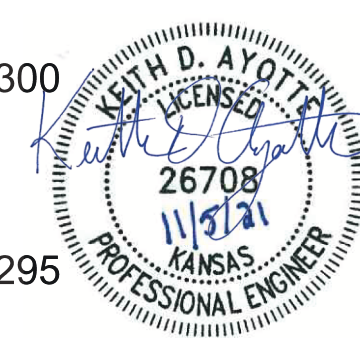
no.	date	by	ckd	description
0	11/12/21	KDA	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION

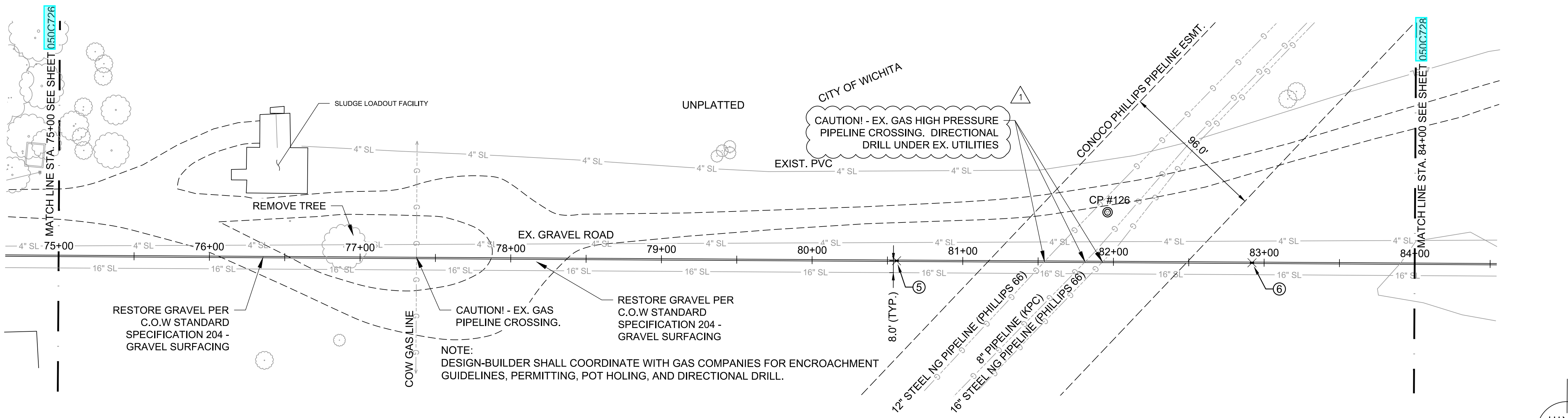


date	JAN. 26, 2021	detailed	J. CODY
designed	D. LANCASTER	checked	S. FRANK



SEDGWICK COUNTY, KANSAS
NORTHWEST WATER TREATMENT FACILITY
 OFF-SITE PIPING
 SLUDGE LINE
 STA. 65+00.00 TO STA. 75+00.00
 project 114461 contract
 drawing **050C726 - 0** rev.
 sheet of sheets
 file 114461_050_C726.dwg



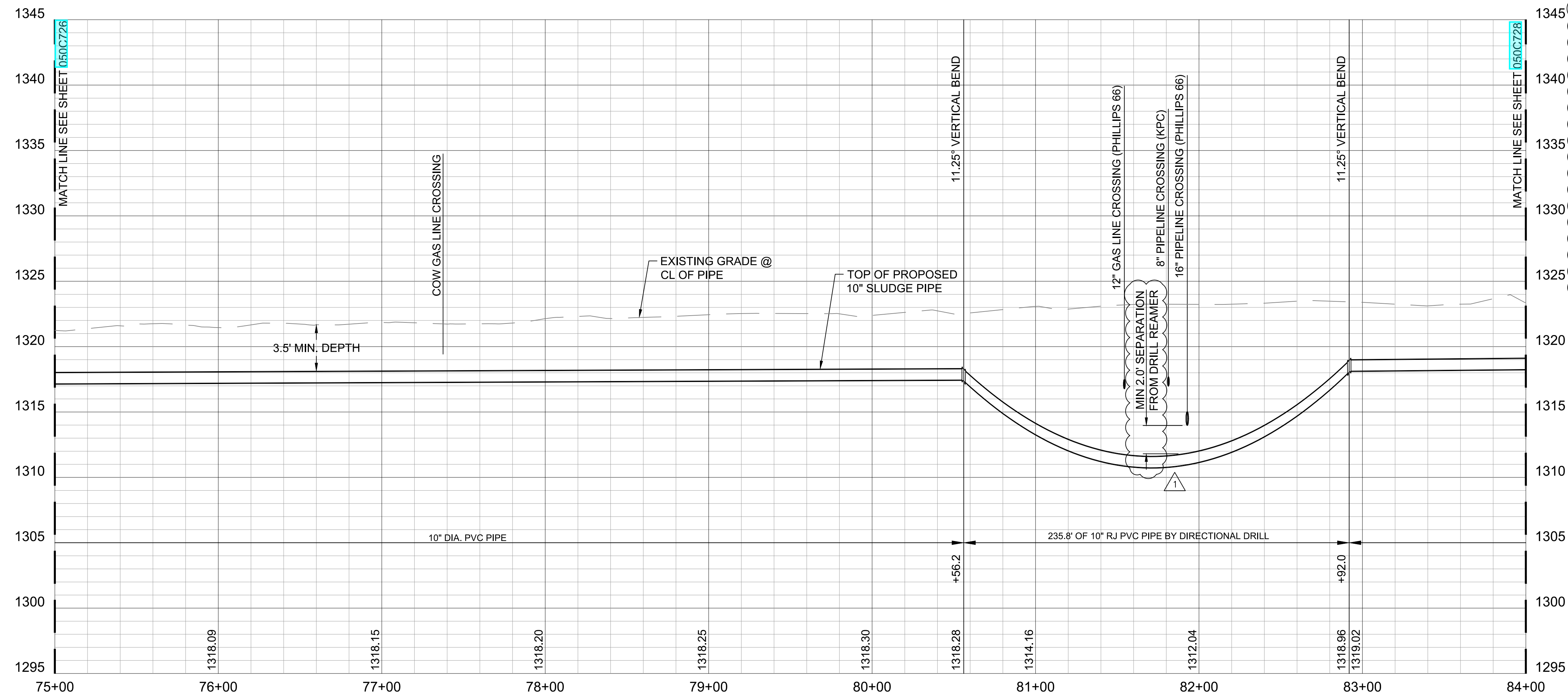
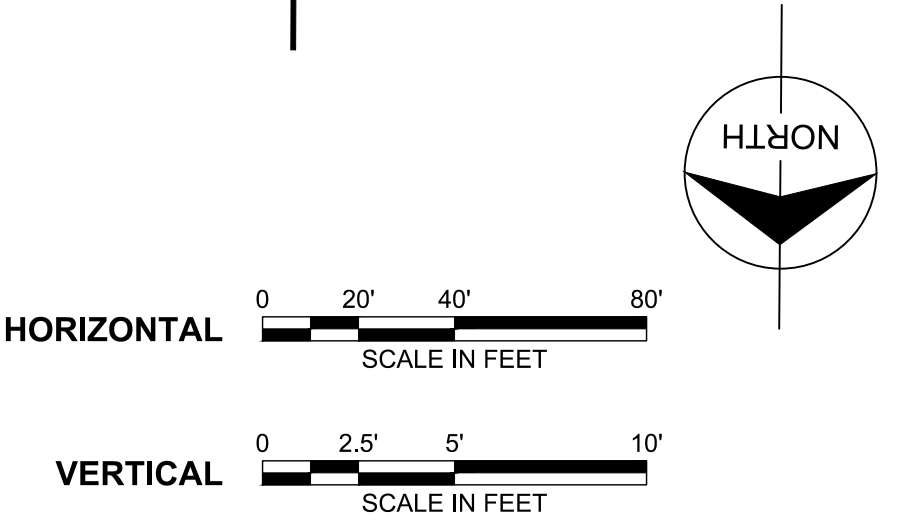


LEGEND

— W — W — W —	EXISTING WATER LINE	— 16" SL —	EXISTING 16" RESIDUALS DISPOSAL LINE
— G — G — G —	EXISTING GAS LINE	— 4" SL —	EXISTING 4" SLUDGE LINE
--- UFO --- UFO --- UFO ---	EXISTING UNDERGROUND FIBER OPTIC LINE	— — — — —	PROPOSED 10" SLUDGE LINE
--- UT --- UT --- UT ---	EXISTING UNDERGROUND TELEPHONE LINE	— — — — —	TOP OF FLOODWAY BERM
— X —	EXISTING FENCE	— — — — —	TOE OF FLOODWAY BERM
--- OE --- OE --- OE ---	EXISTING OVERHEAD ELECTRIC LINE		

BEND POINT TABLE

NUMBER	NORTHING	EASTING	DISCRIPTION
5	1703549.98	1632419.14	11.25° VERTICAL BEND
6	1703549.45	1632183.23	11.25° VERTICAL BEND



- NOTES:**
1. PHILLIPS 66 AND KPC CROSSINGS REQUIRE ADDITIONAL SAFETY MEASURES DURING CONSTRUCTION.
 2. THREE (3) HYDRO-EXCAVATED SITE HOLES WILL BE REQUIRE FOR EACH PIPELINE CROSSING.
 3. SITE HOLES WILL BE LOCATED 5' ON BOTH SIDES OF EACH PIPELINE AND ONE (1) DIRECTLY OVER PIPELINE.
 4. SITE HOLES ON EITHER SIDE OF EACH PIPELINE NEED TO EXTENT 2' BELOW THE BOTTOM OF LINE.
 5. DIRECTION DRILL REAMER NOT TO EXCEED 1.5 X THE LINE SIZE BEING INSTALLED.
 6. DESIGN-BUILDER TO DESIGNATE CROSSING POINTS FOR HEAVY EQUIPMENT TO BE COORDINATED WITH KPC
 7. KPC EMERGENCY CONTACT - ROBERT CLOVER (913) 522-7501
 8. P66 EMERGENCY CONTACT - ROBERT MCKENZIE (405) 213-4017



no.	date	by	ckd	description
0	11/12/21	KDA	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION
1	05/10/22	KDA		REVISED PER DCN 33
	05/10/22	KDA	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION

wichita
WATER PARTNERS

MKEC
Wichita, KS • 316.684.9600
LICENSE NO. E-249

date	JAN. 26, 2021	detailed	J. CODY
designed	D. LANCASTER	checked	S. FRANK

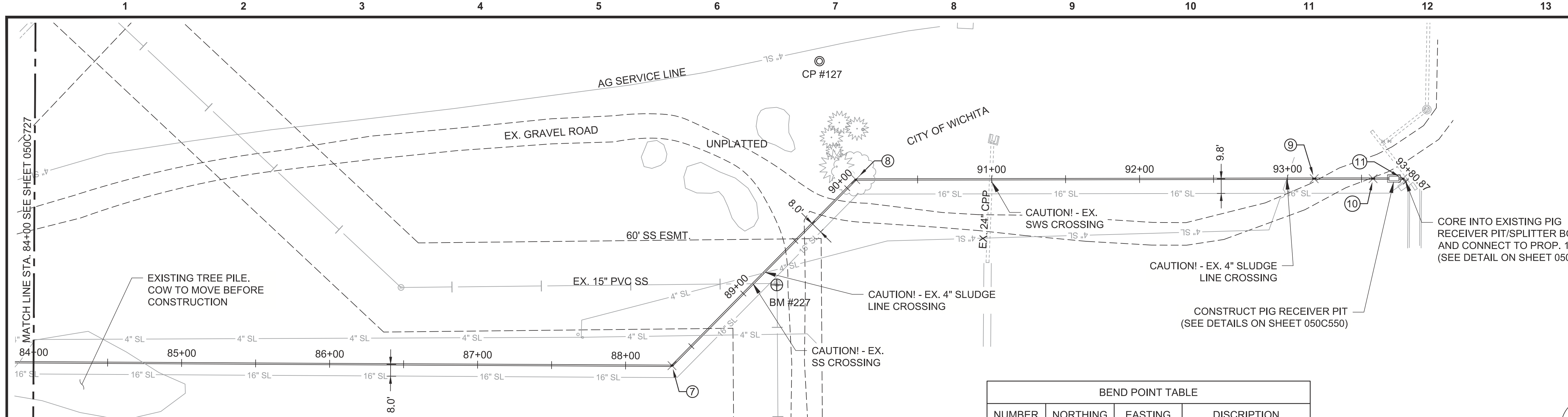


SEDGWICK COUNTY, KANSAS

NORTHWEST WATER TREATMENT FACILITY
OFF-SITE PIPING
SLUDGE LINE
STA. 75+00.00 TO STA. 84+00.00

project	114461	contract	
drawing	050C727 - 1		rev.
sheet	of	sheets	

file 114461_050_C727.dwg

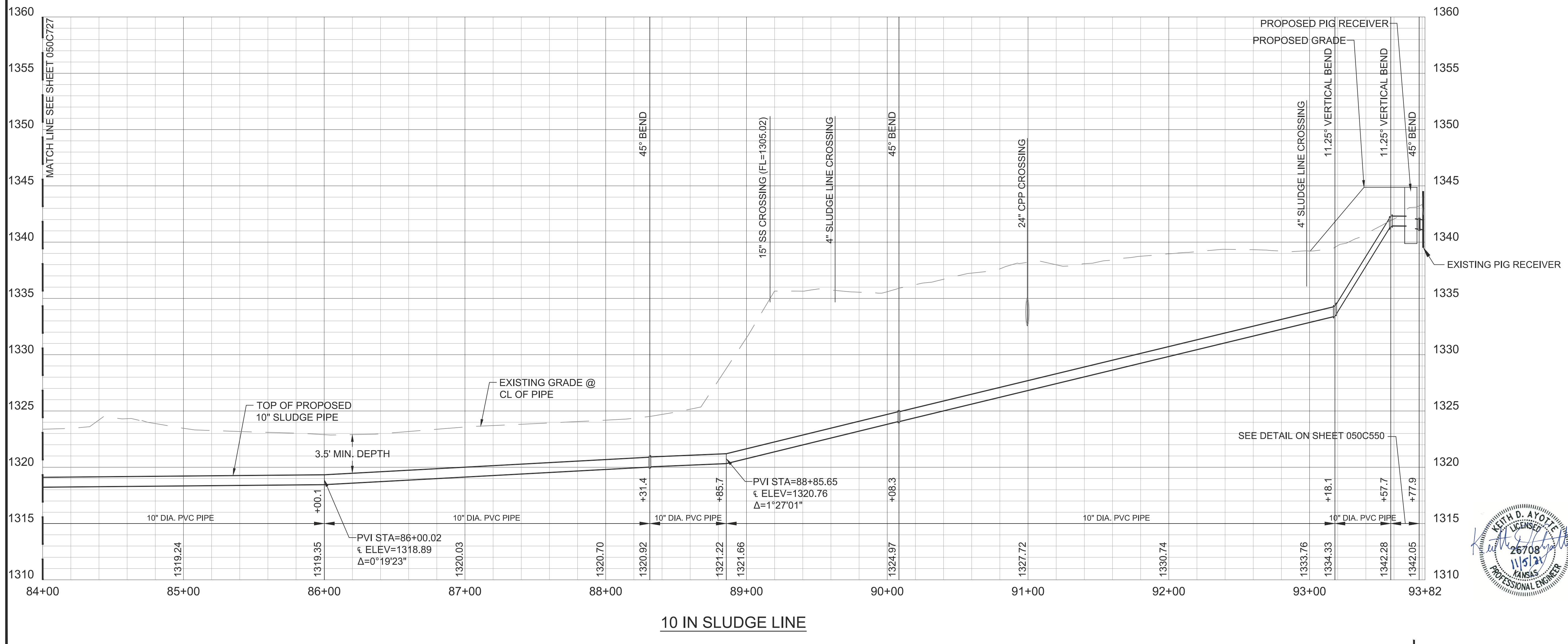
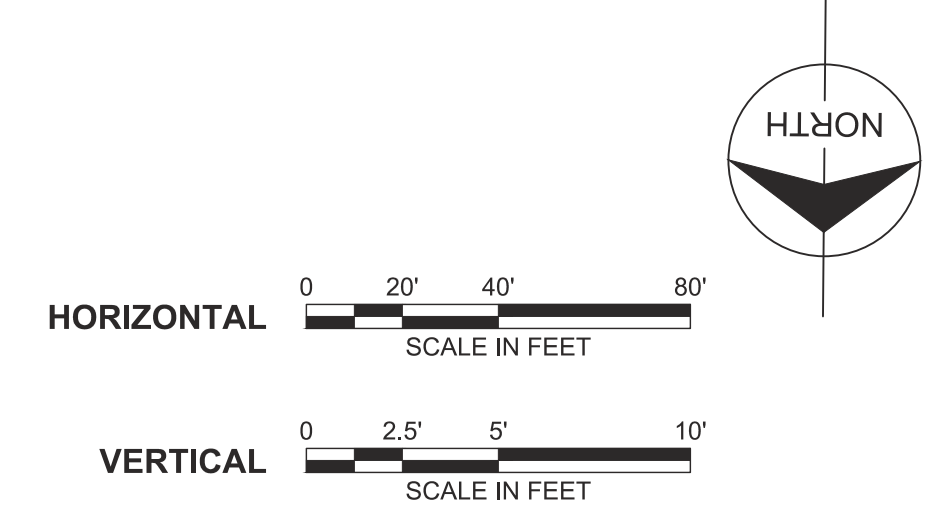


LEGEND

— W — W — W —	EXISTING WATER LINE	— 16" SL —	EXISTING 16" RESIDUALS DISPOSAL LINE
— G — G — G —	EXISTING GAS LINE	— 4" SL —	EXISTING 4" SLUDGE LINE
— UF — UF — UF —	EXISTING UNDERGROUND FIBER OPTIC LINE	— 10" SL —	PROPOSED 10" SLUDGE LINE
— UT — UT — UT —	EXISTING UNDERGROUND TELEPHONE LINE	— — — —	TOP OF FLOODWAY BERM
— X —	EXISTING FENCE	— — — —	TOE OF FLOODWAY BERM
— OE — OE — OE —	EXISTING OVERHEAD ELECTRIC LINE		

BEND POINT TABLE

NUMBER	NORTHING	EASTING	DISCRIPTION
7	1703548.01	1631643.80	45° BEND
8	1703421.21	1631520.63	45° BEND
9	1703418.14	1631210.85	11.25° VERTICAL BEND
10	1703417.78	1631171.05	11.25° VERTICAL BEND
11	1703417.65	1631150.94	45° BEND



no.	date	by	ckd	description
0	11/12/21	KDA	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION

wichita WATER PARTNERS

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LICENSE NO. E-249

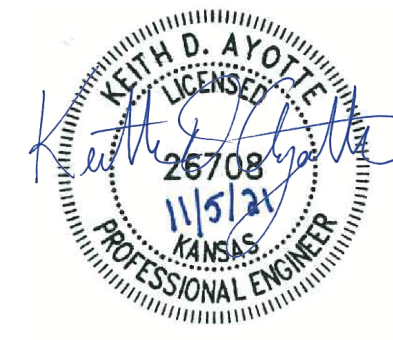
date	JAN. 26, 2021	detailed	J. CODY
designed	D. LANCASTER	checked	S. FRANK

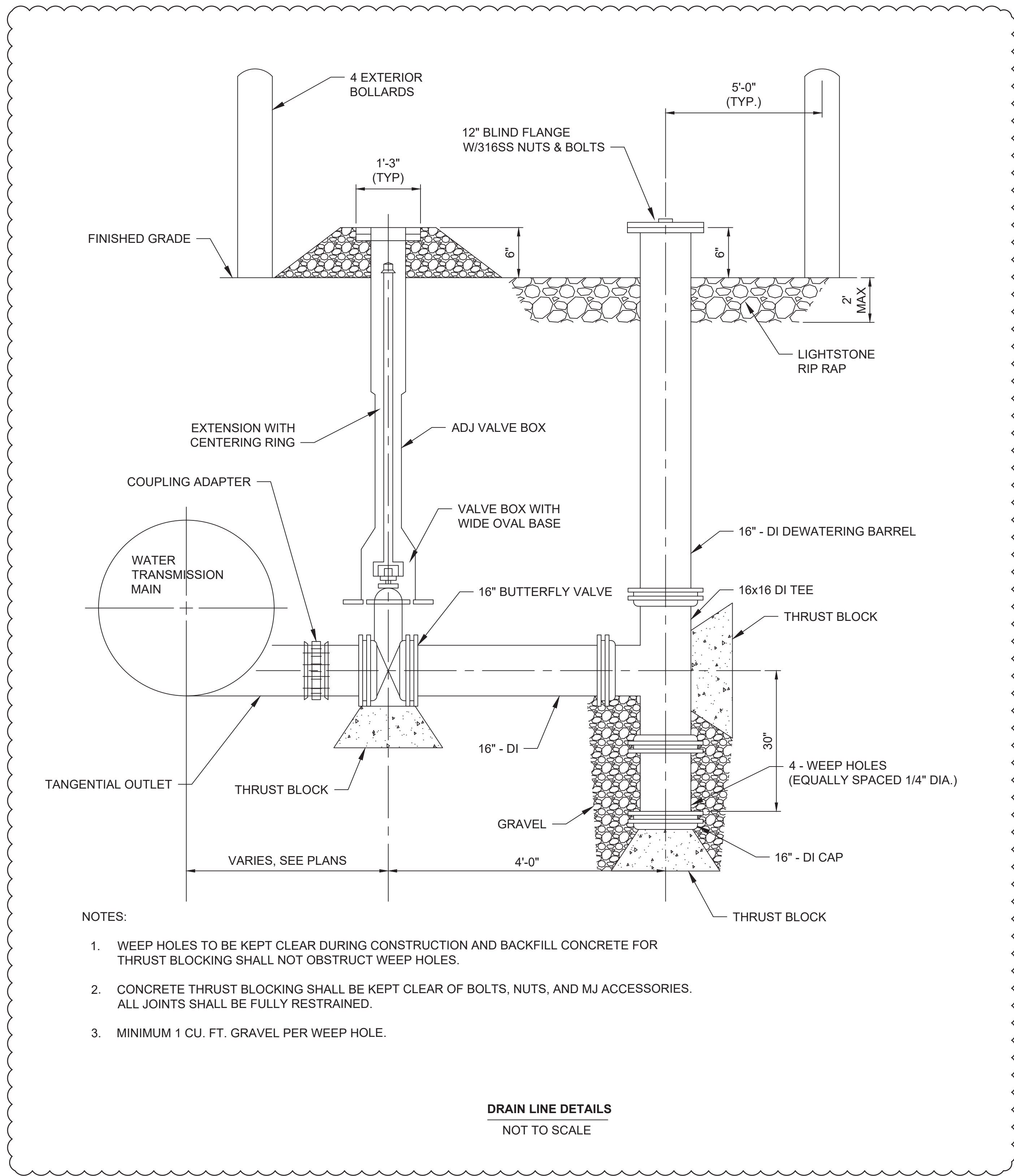
CITY OF WICHITA
SEDGWICK COUNTY, KANSAS

NORTHWEST WATER TREATMENT FACILITY
OFF-SITE PIPING
SLUDGE LINE
STA. 84+00.00 TO STA. 93+80.95

project	114461	contract	
drawing	050C728 - 0		rev.
sheet	of	sheets	

file 114461_050_C728.dwg





- NOTES:
1. WEEP HOLES TO BE KEPT CLEAR DURING CONSTRUCTION AND BACKFILL CONCRETE FOR THRUST BLOCKING SHALL NOT OBSTRUCT WEEP HOLES.
 2. CONCRETE THRUST BLOCKING SHALL BE KEPT CLEAR OF BOLTS, NUTS, AND MJ ACCESSORIES. ALL JOINTS SHALL BE FULLY RESTRAINED.
 3. MINIMUM 1 CU. FT. GRAVEL PER WEEP HOLE.

DRAIN LINE DETAILS
NOT TO SCALE



no.	date	by	ckd	description
0	11/12/21	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION
1	5/6/22	MAB		REVISED PER DCN 22
	5/6/22	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION



date	MAY 20, 2021	detailed	J. CODY
designed	D. LANCASTER	checked	S. FRANK

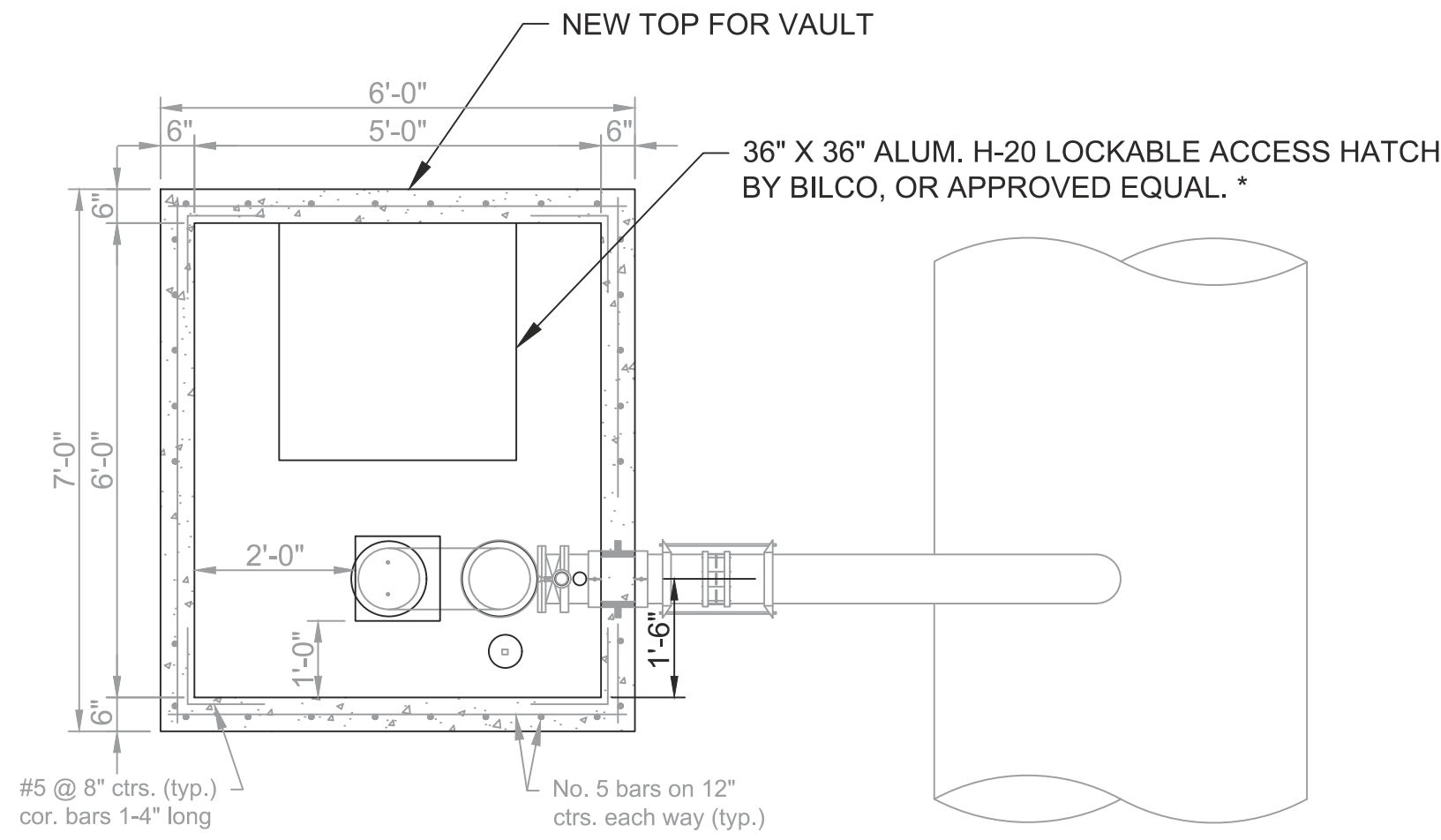


SEDGWICK COUNTY, KANSAS

NORTHWEST WATER TREATMENT FACILITY
OFF-SITE PIPING
DRAIN LINE DETAIL

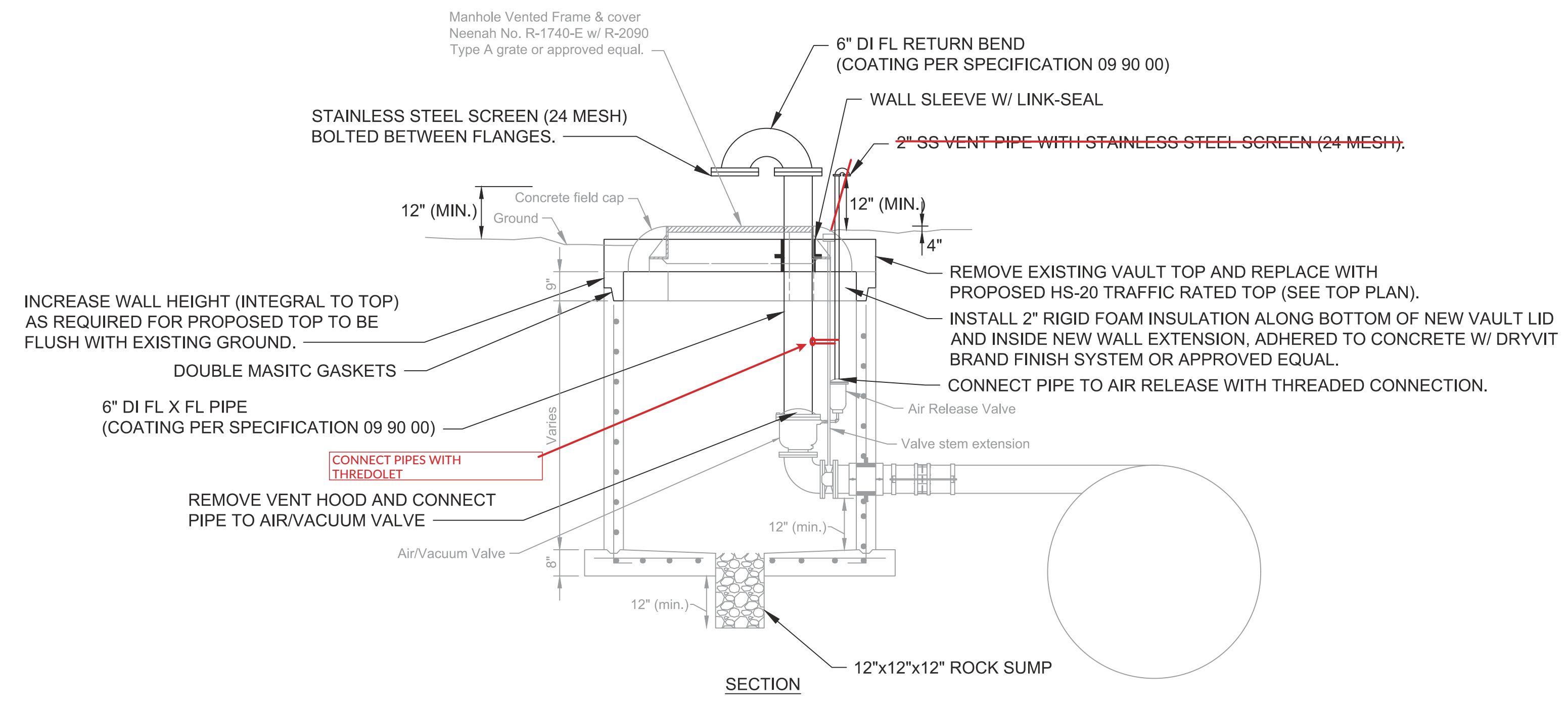
project	114461	contract	
drawing	050C770	rev.	1
sheet	of	sheets	
file 114461_050_C770.dwg			





PLAN

RFI 858



SECTION
6" COMBINATION AIR VALVE VAULT

no.	date	by	ckd	description
0	11/12/21	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION



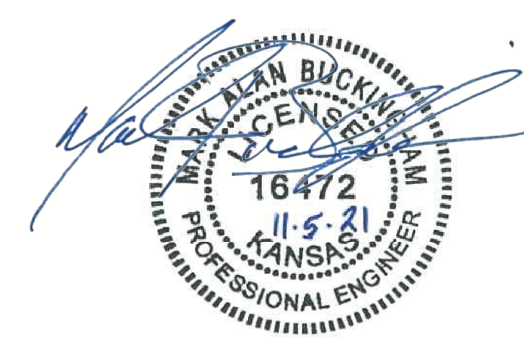
date	JULY 7, 2021	detailed	J. CODY
designed	D. LANCASTER	checked	S. FRANK

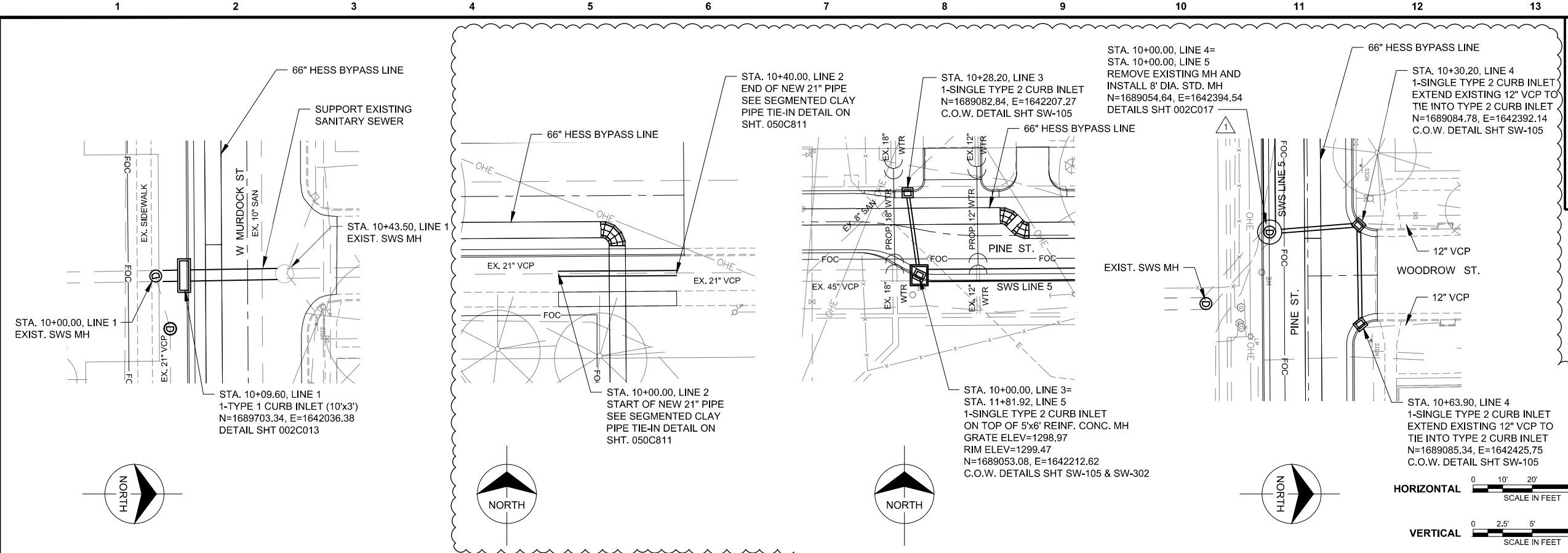


SEDGWICK COUNTY, KANSAS

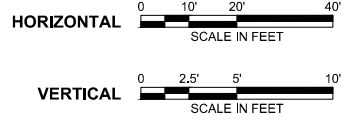
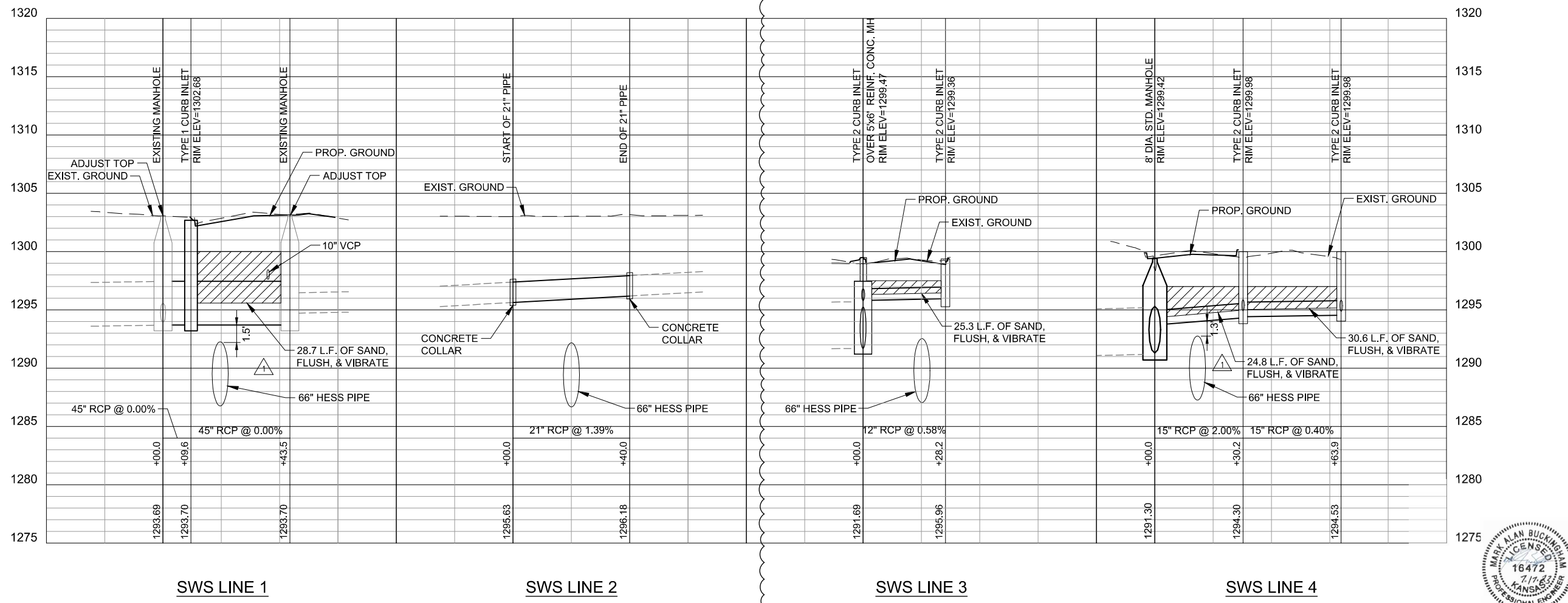
NORTHWEST WATER TREATMENT FACILITY
OFF-SITE PIPING
OFF-SITE AIR RELEASE ADJUSTMENT
DETAILS

project	114461	contract	
drawing	050C771	rev.	0
sheet	of	sheets	
file 114461_050_C771.dwg			





no.	date	by	ckd	description
0	11/12/21	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION
1	5/6/22	MAB		REVISED PER DCN 22
	5/6/22	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION
2	7/6/23	MAB		REPLACED SWS PIPE PER DCN 103
	7/6/23	MAB	SLF	PACKAGE 4: ISSUED FOR CONSTRUCTION



wichita
WATER PARTNERS

MKEC
Wichita, KS • 316.824.9600
LICENSE NO. E-249

date	MAY 25, 2021	detailed	J. CODY
designed	D. LANCASTER	checked	S. FRANK

CITY OF WICHITA

SEDGWICK COUNTY, KANSAS

NORTHWEST WATER TREATMENT FACILITY
OFF-SITE PIPING
SWS LINES

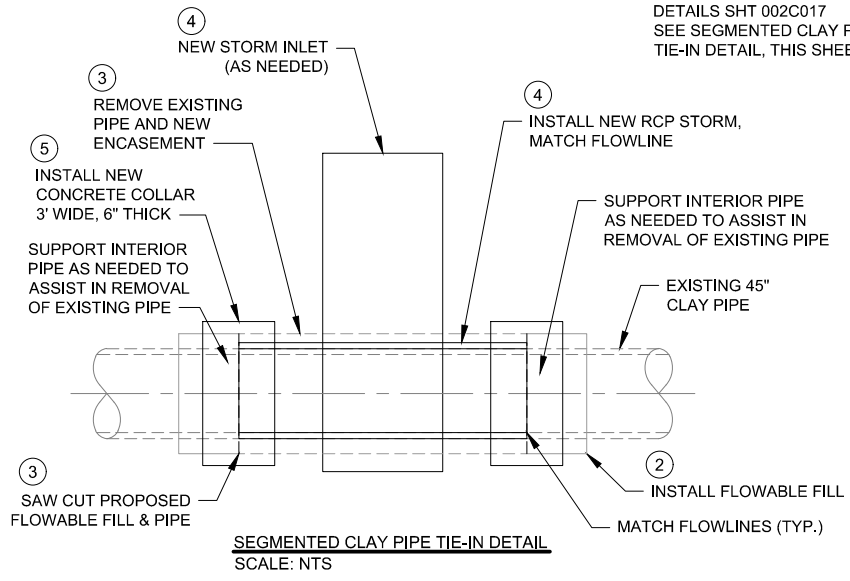
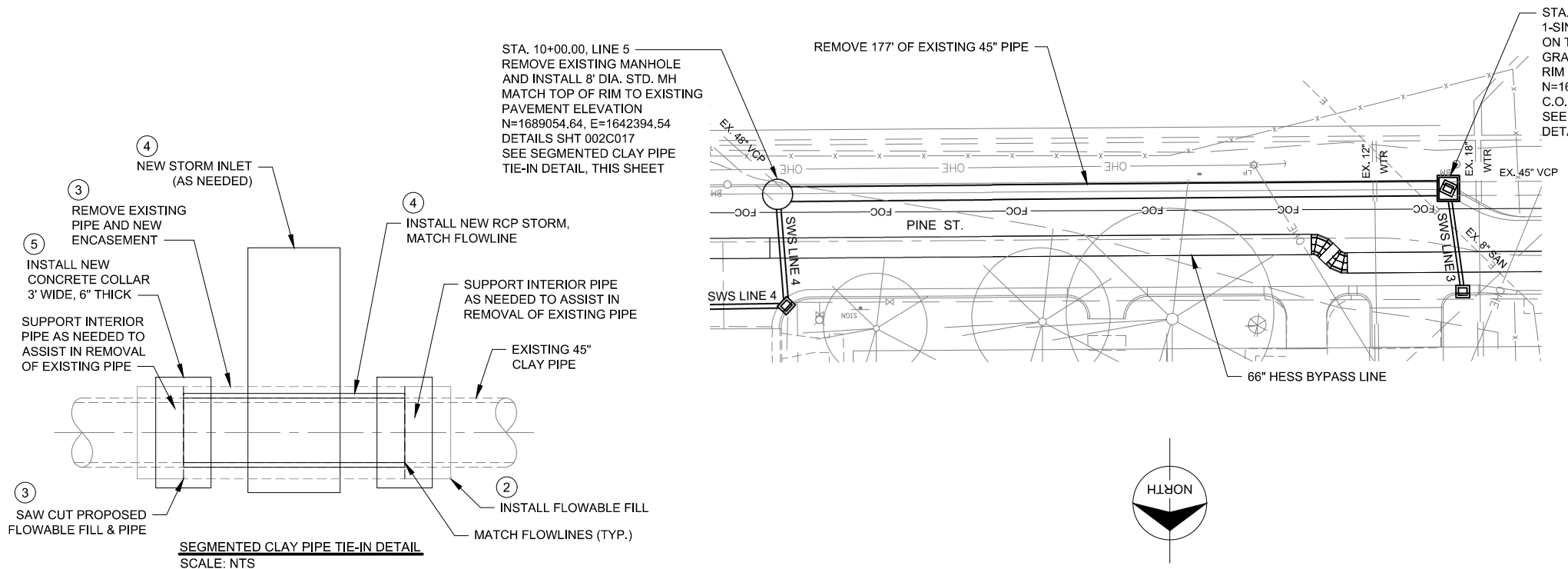
project 114461 | contract

drawing **050C810 - 2** | rev.

sheet of sheets

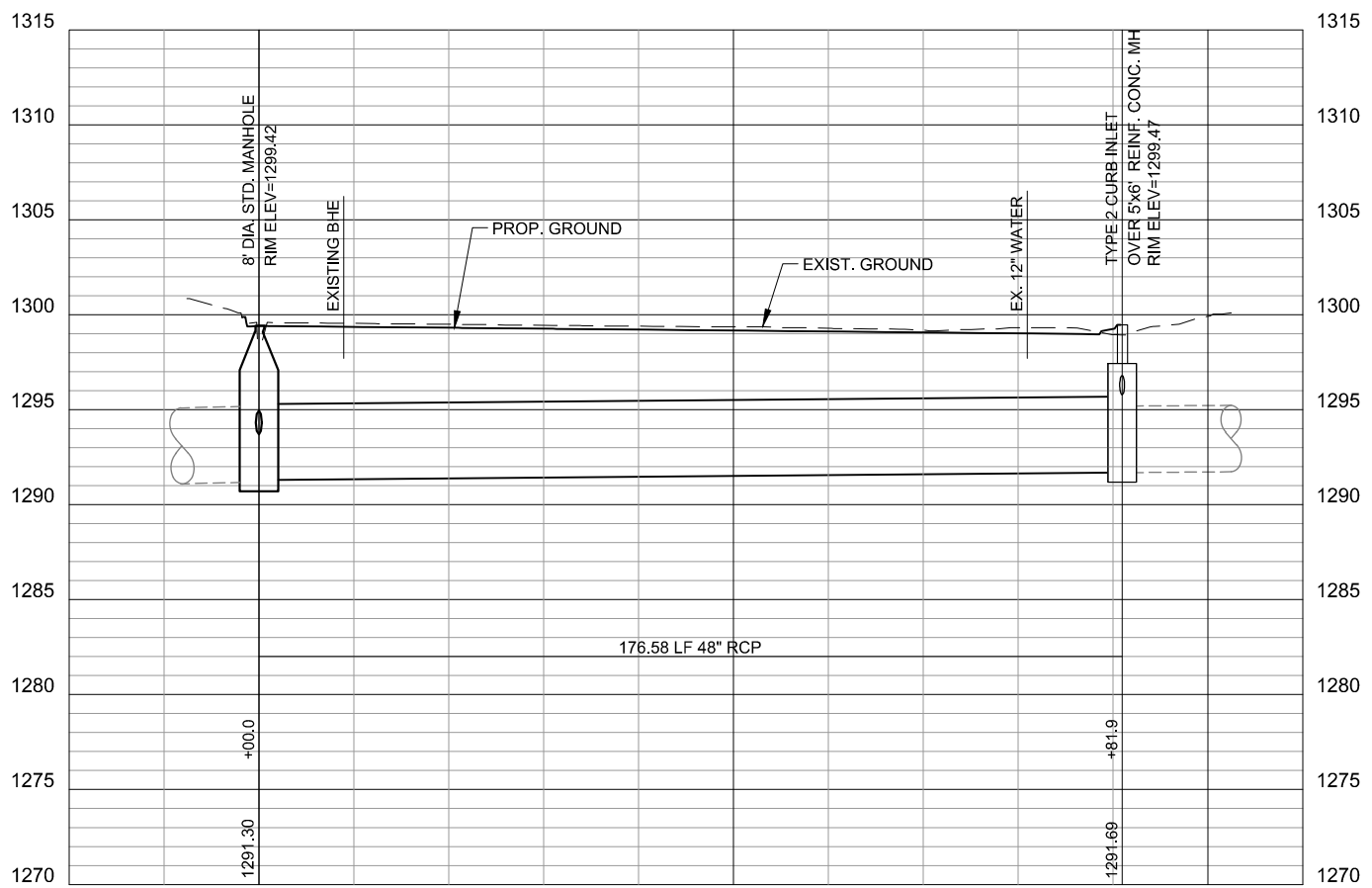
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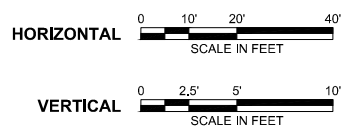
CONSTRUCTION SEQUENCE

1. EXPOSE EXISTING PIPE.
2. INSTALL FLOWABLE FILL A MINIMUM OF 6" THICK AROUND THE ENTIRE PERIMETER OF THE EXISTING PIPE. FLOWABLE FILL LENGTH TO EXTEND A MINIMUM OF 4" OUTSIDE BOTH SAW CUT LOCATIONS. ALLOW FLOWABLE FILL TO CURE FULLY PRIOR TO SAWCUTTING.
3. SAW CUT AND REMOVE FLOWABLE FILL & EXISTING PIPE.
4. PLACE NEW RCP PIPE. BOTH ENDS OF NEW RCP TO MATCH FLOW LINE ELEVATIONS OF EXISTING PIPE.
5. INSTALL CONCRETE COLLARS.



SWS LINE 5

no.	date	by	ckd	description
0	7/6/23	MAB		REPLACED SWS PIPE PER DCN 103
	7/6/23	MAB	SLF	PACAKGE 4: ISSUED FOR CONSTRUCTION



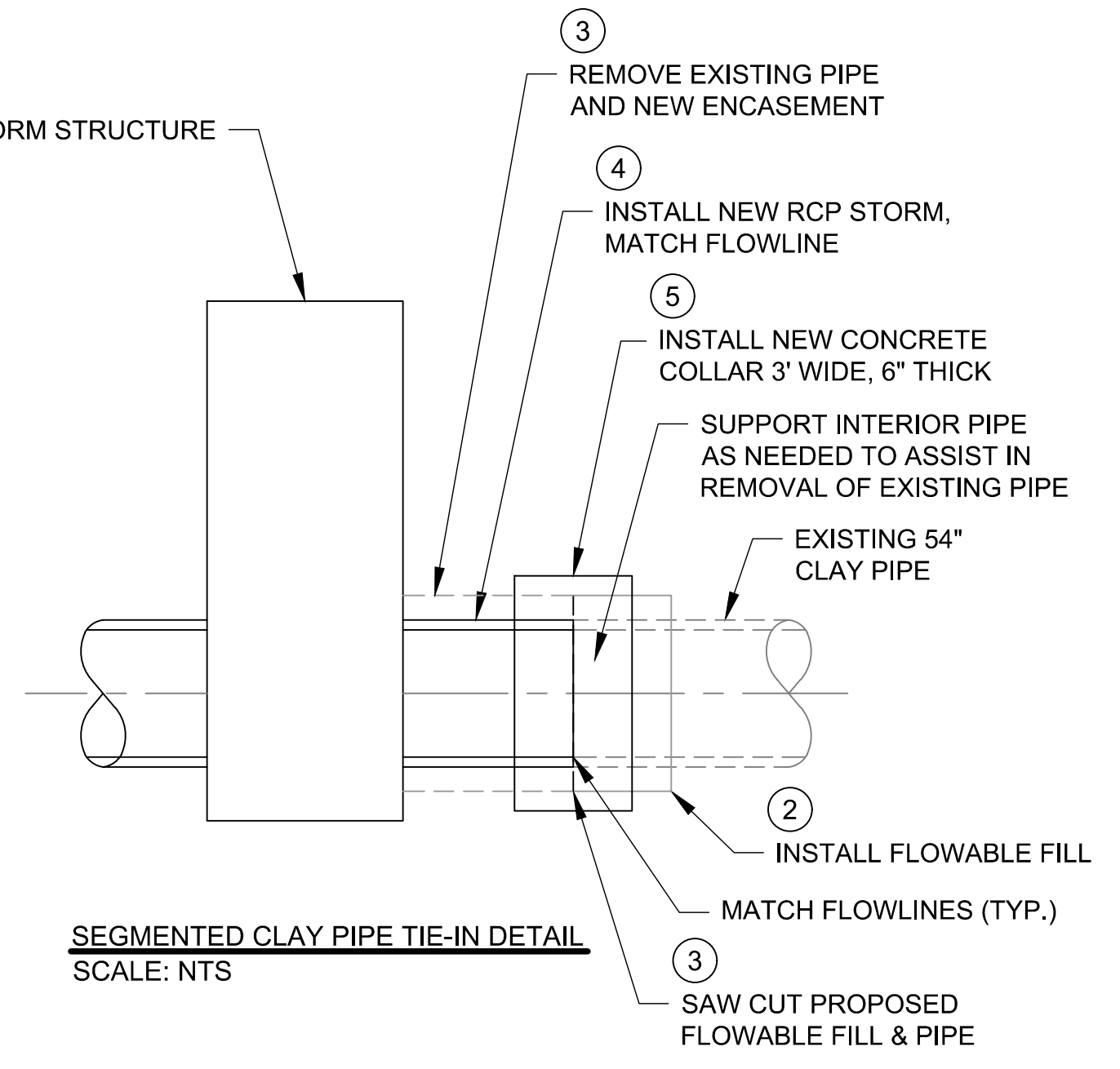
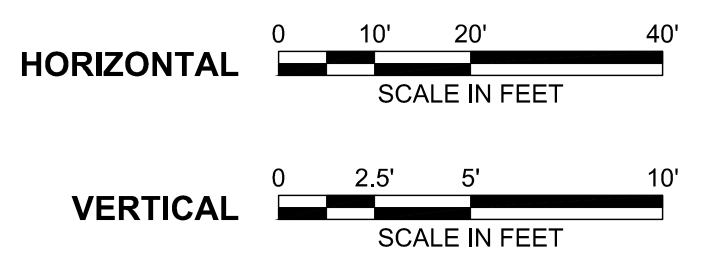
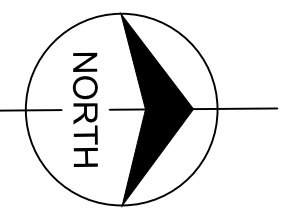
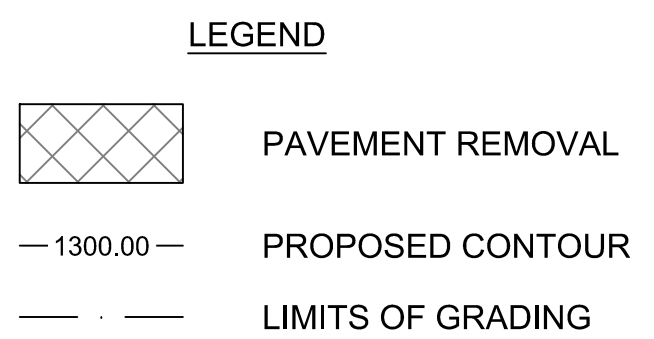
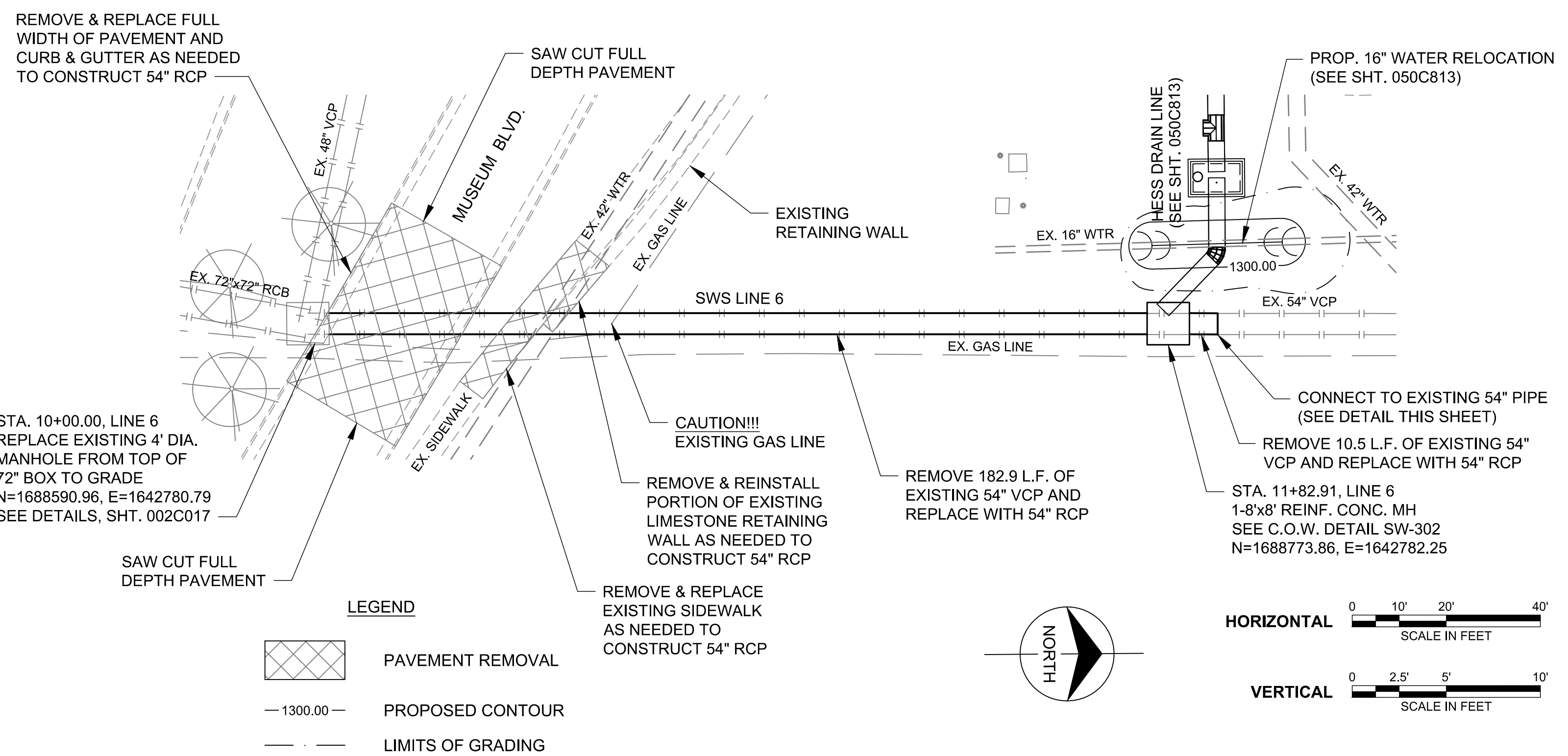
date	JUNE 20, 2023	detailed	J. CODY
designed	D. LANCASTER	checked	S. FRANK



SEDGWICK COUNTY, KANSAS
NORTHWEST WATER TREATMENT FACILITY
 OFF-SITE PIPING
 SWS LINE 5

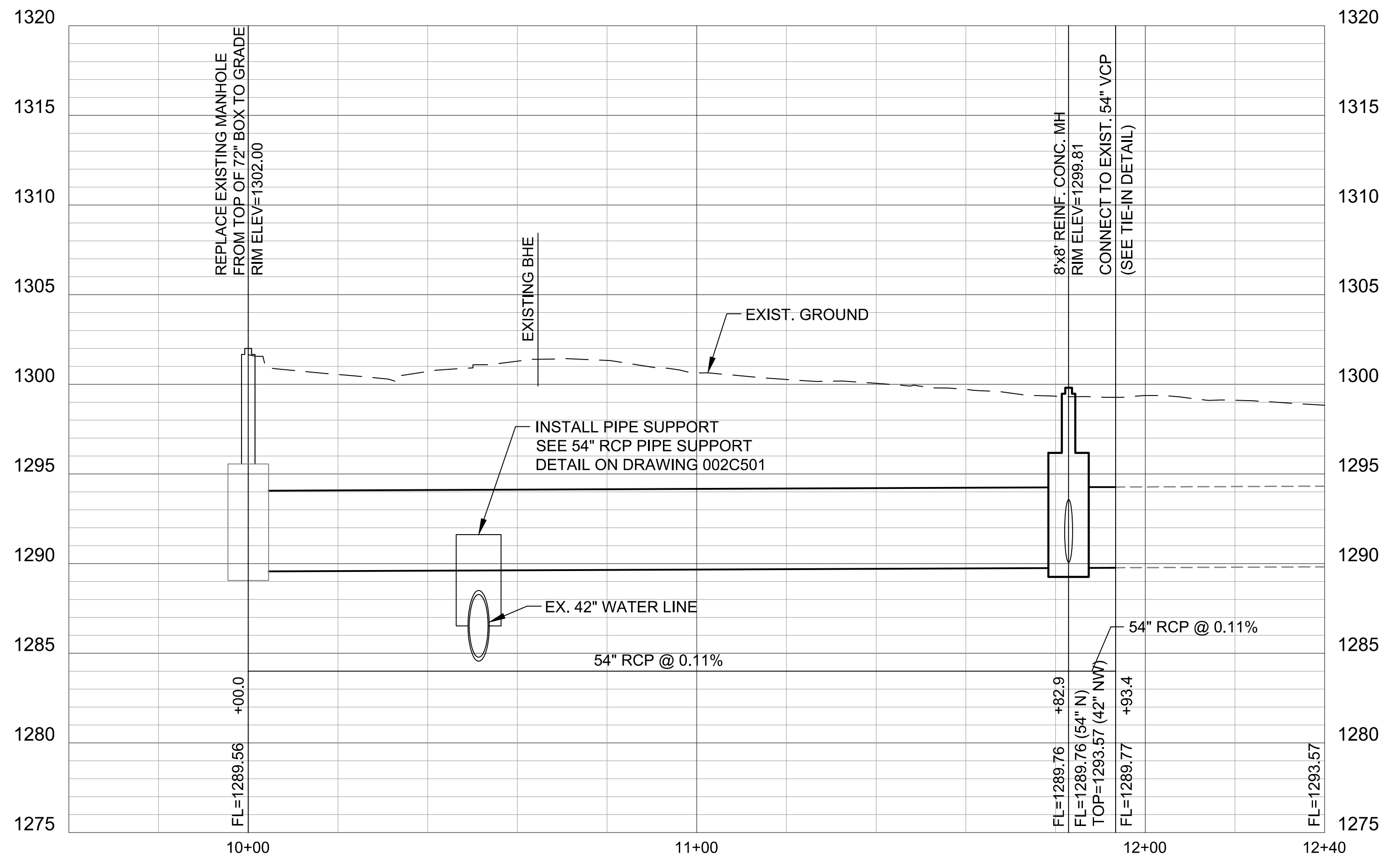
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drawing	050C811	rev.	0
sheet	of	sheets	
file 114461_050_C811.dwg			





CONSTRUCTION SEQUENCE

1. EXPOSE EXISTING PIPE.
2. INSTALL FLOWABLE FILL A MINIMUM OF 6" THICK AROUND THE ENTIRE PERIMETER OF THE EXISTING PIPE. FLOWABLE FILL LENGTH TO EXTEND A MINIMUM OF 4" OUTSIDE BOTH SAW CUT LOCATIONS. ALLOW FLOWABLE FILL TO CURE FULLY PRIOR TO SAWCUTTING.
3. SAW CUT AND REMOVE FLOWABLE FILL & EXISTING PIPE.
4. PLACE NEW RCP PIPE. BOTH ENDS OF NEW RCP TO MATCH FLOW LINE ELEVATIONS OF EXISTING PIPE.
5. INSTALL CONCRETE COLLARS.



SWS LINE 6

no.	date	by	ckd	description
0	11/1/23	MAB	KDA	DCN 104: ISSUED FOR CONSTRUCTION



date AUG. 16, 2023	detailed J. CODY
designed D. LANCASTER	checked K. AYOTTE

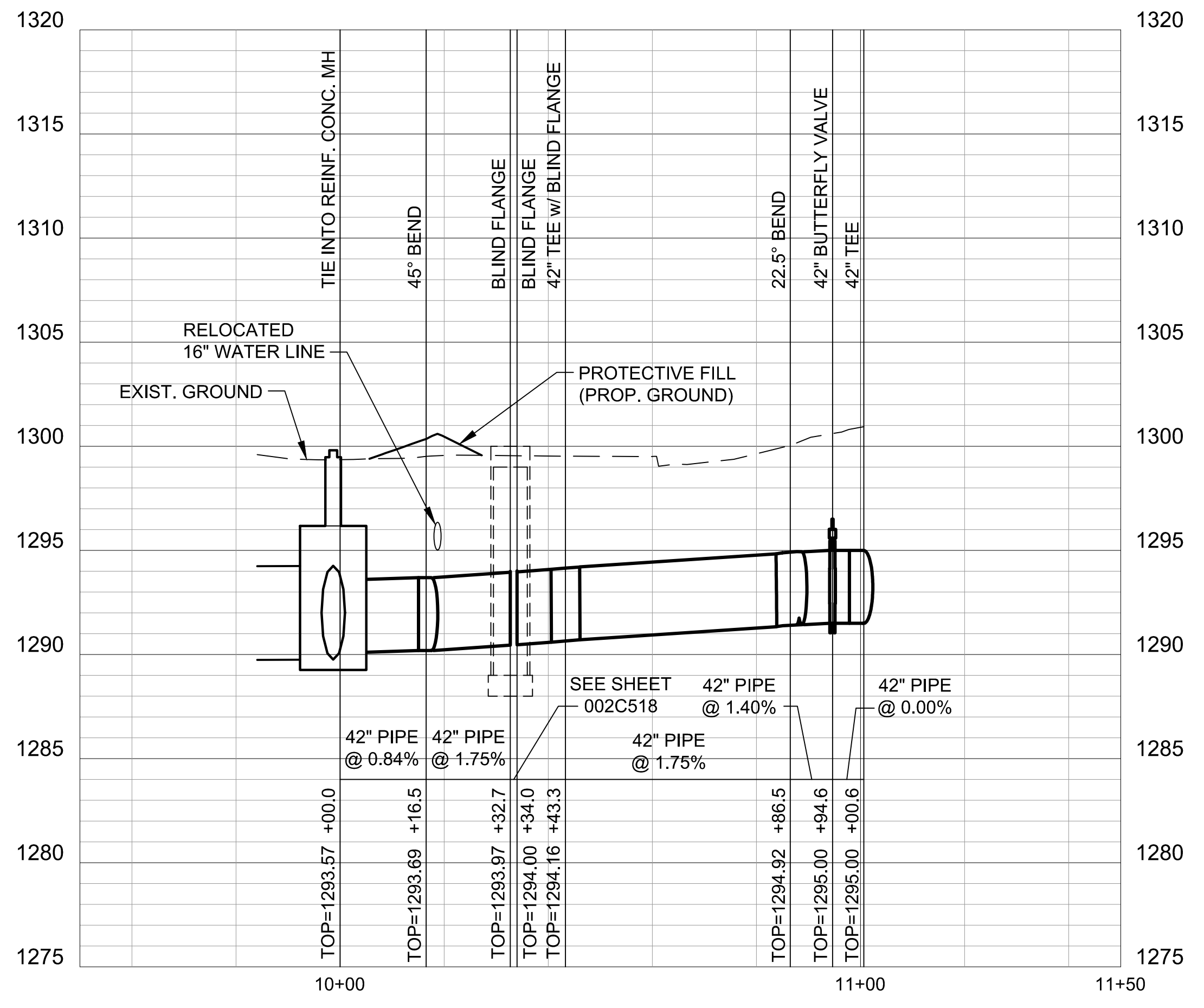
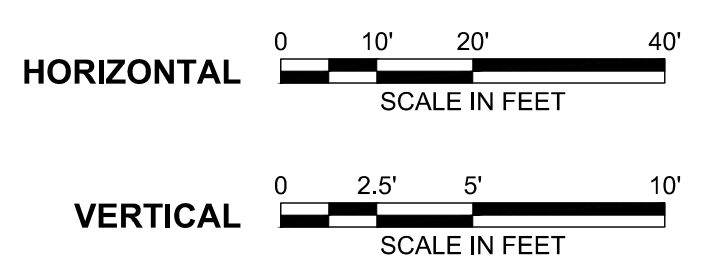
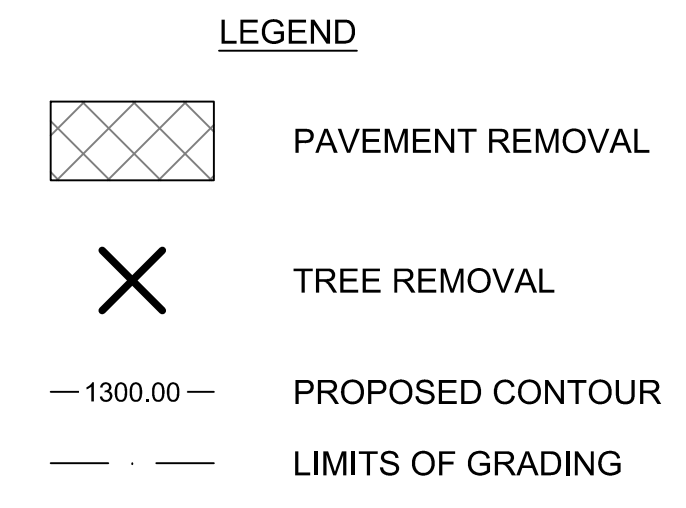
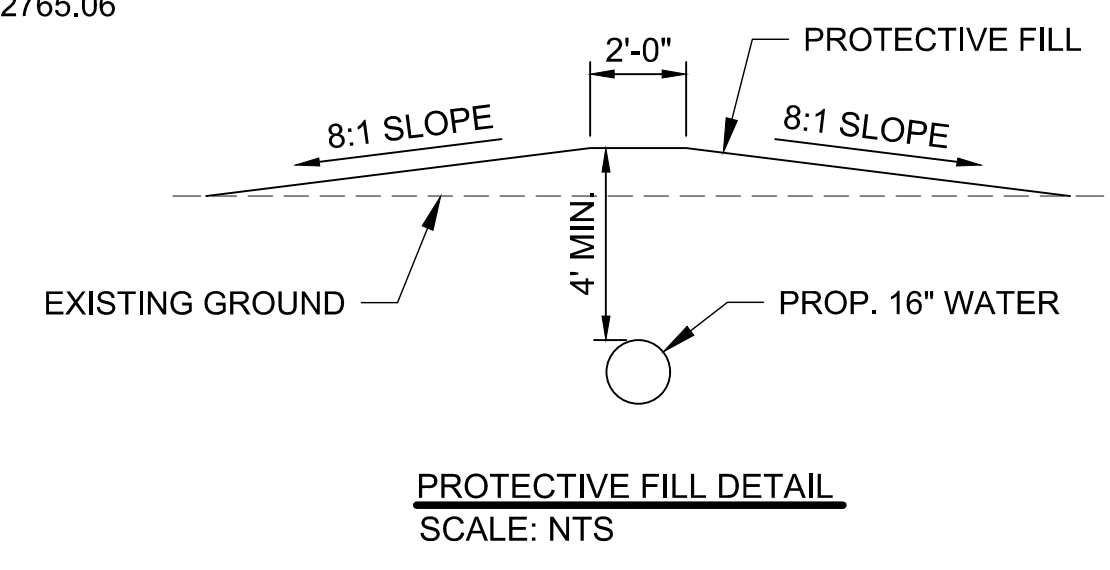
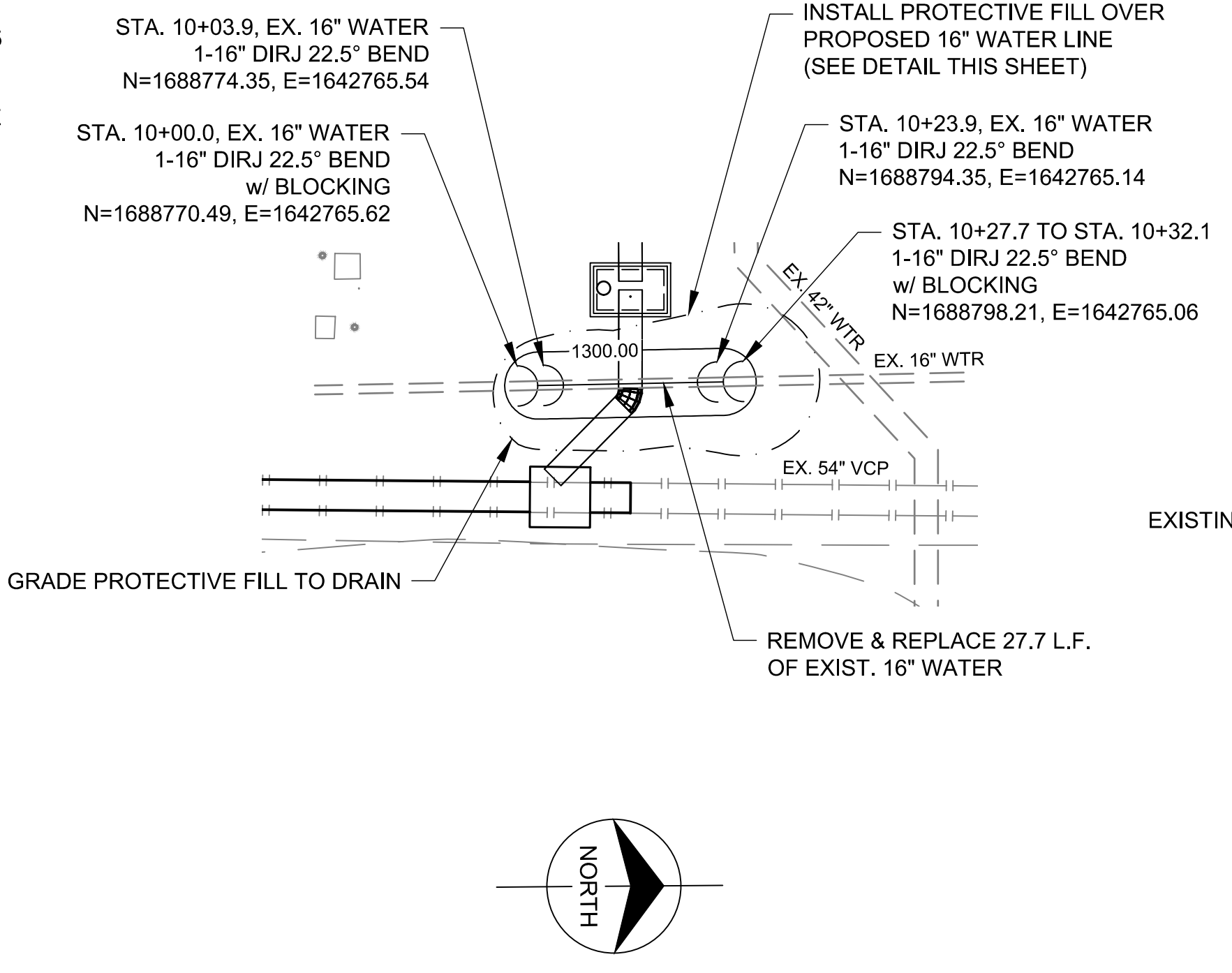
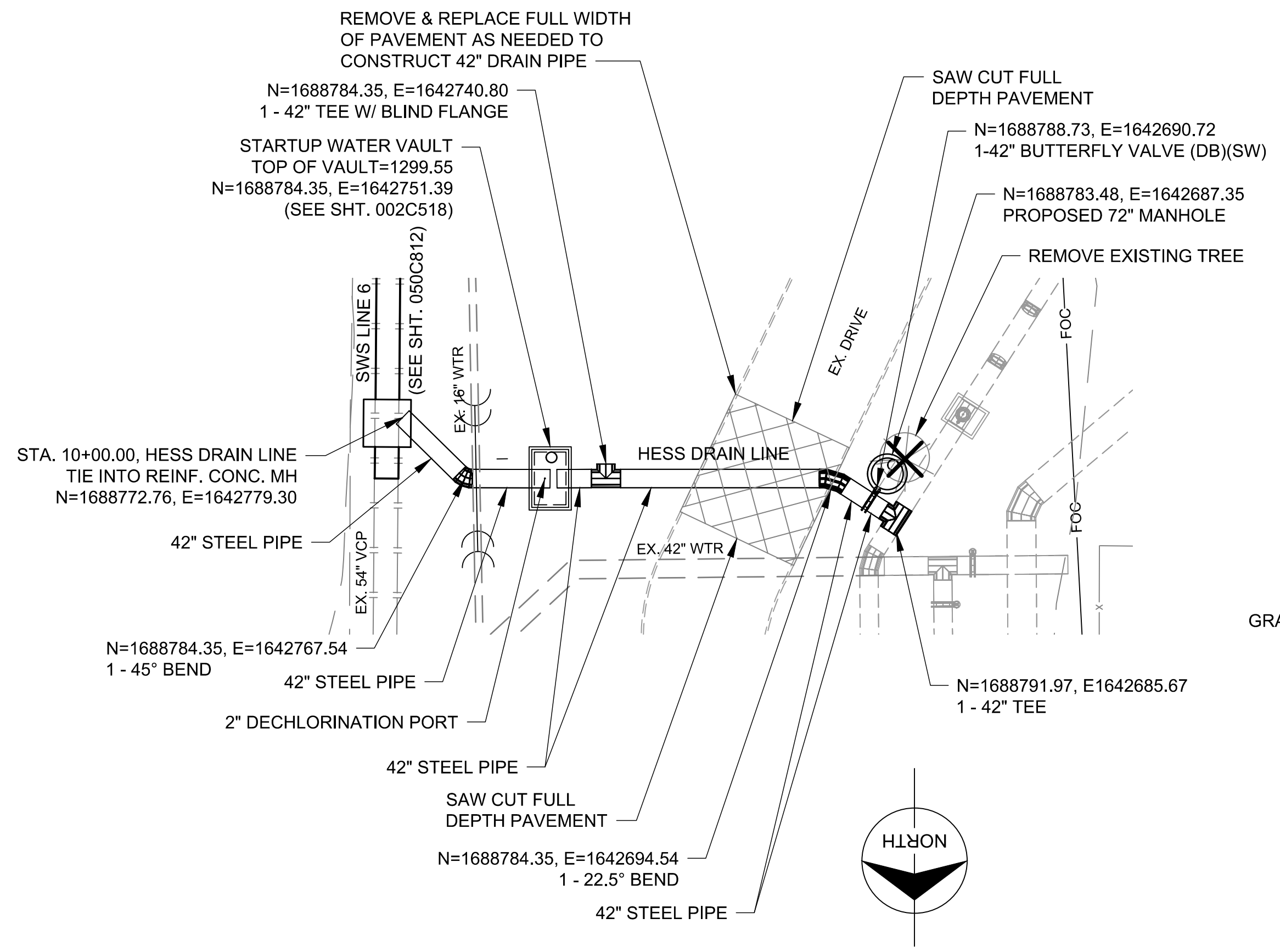


SEDGWICK COUNTY, KANSAS

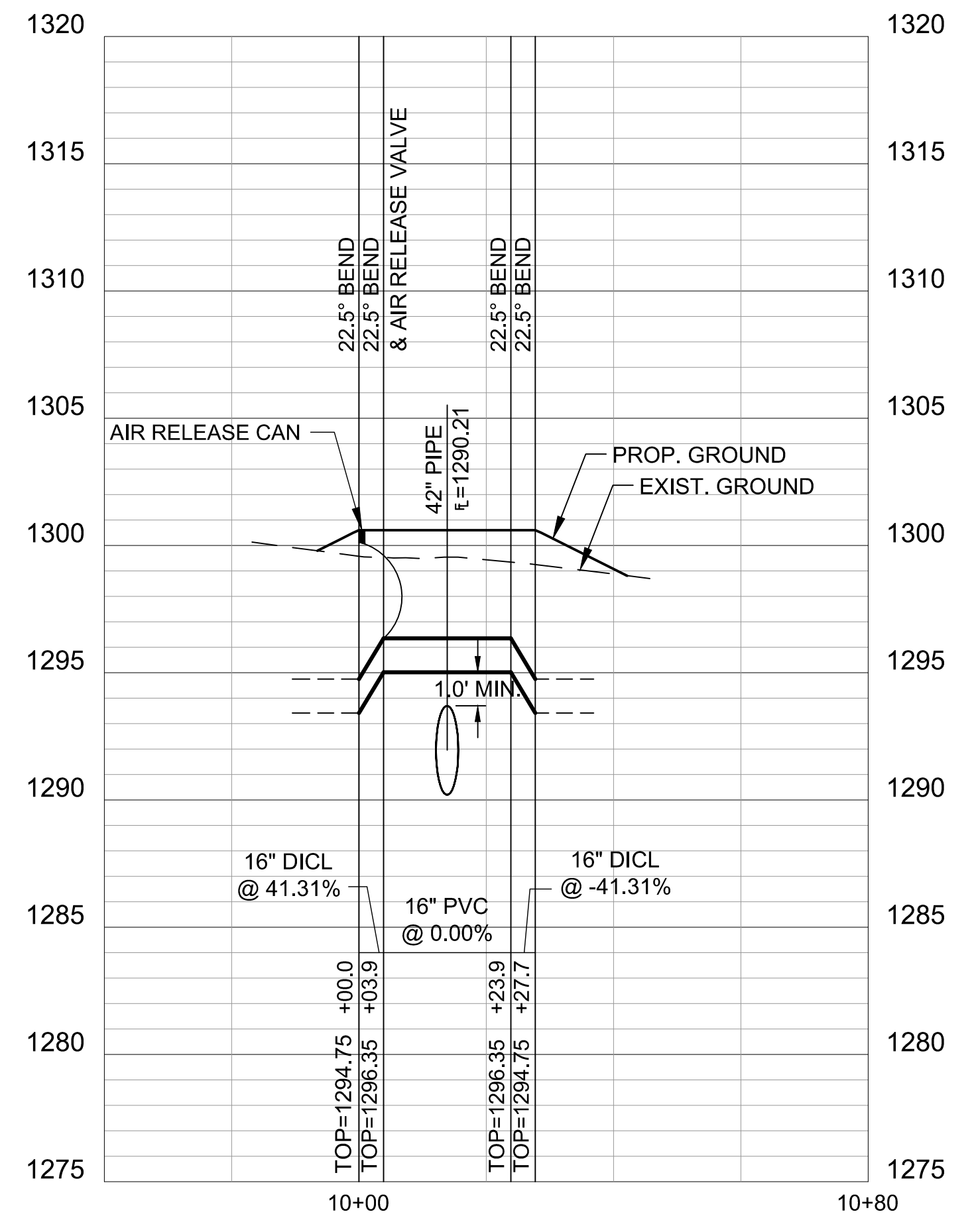
NORTHWEST WATER TREATMENT FACILITY
OFF-SITE PIPING
SWS LINE 6

project 114461	contract
drawing 050C812	rev. 0
sheet	of sheets
file 114461_050_C812.dwg	





HESS DRAIN LINE



EX. 16" WATER RELOCATION

no.	date	by	ckd	description
0	10/6/23	MAB	KDA	DCN 104: ISSUED FOR CONSTRUCTION



date AUG. 31, 2023	detailed J. CODY
designed D. LANCASTER	checked K. AYOTTE



SEDGWICK COUNTY, KANSAS	
NORTHWEST WATER TREATMENT FACILITY	
OFF-SITE PIPING	
HESS DRAIN PIPE & EXISTING 16" WATER RELOCATION	
project 114461	contract
drawing 050C813	rev. 0
sheet	of sheets
file 114461_050_C813.dwg	

