PLOTTED: Friday, April 21, 2023 @ 08:56AM

J:\PROJECTS\022\220101029_PERFECTION_JACOBS 135TH AND CENTRAL\00_220296 CAD\SHTS\05 CIVIL\SAN\22296-05-2000.DWG

SANITARY SEWER IMPROVEMENTS

TO SERVE

COURTYARDS AT JACOBS FARM

THE CITY OF WICHITA, KANSAS
PAUL GUNZELMAN, P.E. - INTERIM CITY ENGINEER

PROJECT NO. 468-2023-002757
ORG CODE 47268123
MUNIS NO. E3054

SCOTT PRESTON LEHNER LICENSED 24423 KANSAS PROFESSIONAL ENGINEER 4/21/23

GENERAL NOTES

1. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY REGULATIONS. ALL CONSTRUCTION SHALL BE COMPLETED FOLLOWING CURRENT CITY STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

2. CONTRACTOR WILL BE REQUIRED TO PROVIDE NOTICE TO UTILITY COMPANIES A MINIMUM OF SEVENTY-TWO (72) HOURS PRIOR TO ANY EXCAVATION, AS FOLLOWS:

   KANSAS ONE-CALL 687-2470

   THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF AN EMERGENCY:

AT&T	1-800-246-8464
BLACK HILLS ENERGY (GAS)	1-800-694-8989
CITY OF WICHITA WATER & SEWER	1-316-219-8921
CITY OF WICHITA STORMWATER	1-316-268-4090
CITY OF WICHITA TRAFFIC	1-316-268-4034
COX COMMUNICATIONS	1-888-249-3530
KANSAS GAS SERVICE	1-888-482-4950
EVERGY	1-800-544-4857

3. UTILITY SERVICE LINES, POLES, ETC. ARE TO BE ADJUSTED AS NECESSARY BY OTHERS PRIOR TO CONSTRUCTION UNLESS THE PLANS SPECIFICALLY CALL FOR THEIR ADJUSTMENT BY THE CONTRACTOR OR UNLESS THE PLANS SPECIFICALLY IDENTIFY A UTILITY TO BE ADJUSTED BY ITS OWNER DURING CONSTRUCTION. EXISTING UTILITIES AND THEIR LOCATION, AS SHOWN ON THE PLANS, REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND EXISTING UTILITIES WITHIN THE RIGHT-OF-WAY WHICH DO NOT CONFLICT WITH PROPOSED CONSTRUCTION.

4. RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES AND EXCESS EXCAVATION WHICH IS TO BE WASTED SHALL BE DISPOSED OF ON SITES TO BE PROVIDED BY THE CONTRACTOR. THESE SITES SHALL BE APPROVED BY THE ENGINEER AS TO SUITABILITY, APPEARANCE AND SITE LOCATION. LOCATIONS, IN THE OPINION OF THE ENGINEER, THAT WILL LEAVE AN UNSIGHTLY APPEARANCE WILL NOT BE APPROVED. ALL DISPOSAL SITES MUST BE APPROVED BY THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT. MATERIAL EITHER STOCKPILED OR DISPOSED OF IN A FLOOD PLAIN WILL REQUIRE A KANSAS STATE BOARD OF AGRICULTURE PERMIT. ANY MATERIAL DUMPED IN WATERS OF THE UNITED STATES OR WETLANDS IS SUBJECT TO U.S. CORPS OF ENGINEERS PERMITTING REGULATIONS. ANY MATERIAL BURIED OR STOCKPILED BEYOND APPROVED CONSTRUCTION LIMITS WILL REQUIRE ADDITIONAL ARCHAEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATION.

5. TREES AND SHRUBS IN PUBLIC RIGHT-OF-WAY WHICH ARE IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE REMOVED BY THE CONTRACTOR WITH THE CITY ENGINEER'S APPROVAL. TREES AND SHRUBS WHICH ARE NOT IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE SAVED AND PROTECTED FROM DAMAGE.

6. THE CONTRACTOR SHALL GIVE ALL PROPERTY OWNERS AND/OR TENANTS OF DEVELOPED PROPERTY ABUTTING THE CONSTRUCTION OF THIS PROJECT A MINIMUM OF TEN (10) DAYS NOTICE PRIOR TO START OF CONSTRUCTION.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR WILL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.

8. THE ENGINEERING DIVISION SHALL FIELD LOCATE WATER VALVES ONE TIME DURING CONSTRUCTION WHEN REQUESTED BY THE CONTRACTOR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PRESERVE SUCH FIELD LOCATIONS DURING THE CONSTRUCTION PROCESS. WATER VALVES, VALVE BOXES OR FIRE HYDRANTS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY CONTRACTOR AT HIS OWN EXPENSE. VALVE BOXES AND WATER METERS WITHIN THE PROJECT LIMITS SHALL BE ADJUSTED TO MATCH FIELD GRADES BY THE CONTRACTOR.

9. IF TRAFFIC WILL BE IMPACTED BY CONSTRUCTION, A TRAFFIC CONTROL PLAN MUST BE SUBMITTED AND APPROVED BY THE CITY TRAFFIC ENGINEER AT traffic@wichita.gov BEFORE CONSTRUCTION CAN BEGIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL MEASURES TO FACILITATE CONSTRUCTION. ALL CONSTRUCTION ZONE MARKINGS AND SIGNAGE SHALL CONFORM TO THE LATEST VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AS PUBLISHED BY THE US DEPT. OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION. ALL COSTS ASSOCIATED WITH CONSTRUCTION MARKINGS AND SIGNAGE SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

10. ALL AREAS DISTURBED DURING CONSTRUCTION THAT WILL NOT BE UNDER PROPOSED PAVEMENT SHALL BE SEEDED AND MULCHED. COST SHALL BE CONSIDERED SUBSIDIARY TO PROJECT SEEDING. SEEDING TO BE: ANNUAL RYE @ 150 LBS./ACRE & SLOW RELEASE @ 150 LBS./ACRE

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

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

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

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

15. ALL STUBS AND PLUGGED PIPES SHALL BE LOCATED WITH GREEN PLASTIC TAPE IN THE SAME MANNER AS RISERS.

16. CONNECTING TO EXISTING MANHOLES:
    PRIOR TO LAYING SEWER LINES USING EXISTING STUBS IN EXISTING MANHOLES, THE CONTRACTOR SHALL EXPOSE AND VERIFY THE ELEVATION, GRADE AND ALIGNMENT OF EXISTING STUBS AND NOTIFY THE ENGINEER OF ANY DEVIATION FROM THE PLANS. WHERE CONNECTION TO AN EXISTING MANHOLE THAT DOES NOT HAVE AN EXISTING STUB OR THE STUB IS UNUSABLE DUE TO ELEVATION GRADE OR ALIGNMENT, THE CONTRACTOR SHALL BORE CUT INTO EXISTING MANHOLE WALL TO MAKE CONNECTION USING APPROVED WATER STOP GASKET, AND RESHAPE THE EXISTING MANHOLE INVERT TO PROVIDE SMOOTH FLOW. THE COST TO CONNECTING TO EXISTING MANHOLES IS INCIDENTAL TO THE PROJECT.

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

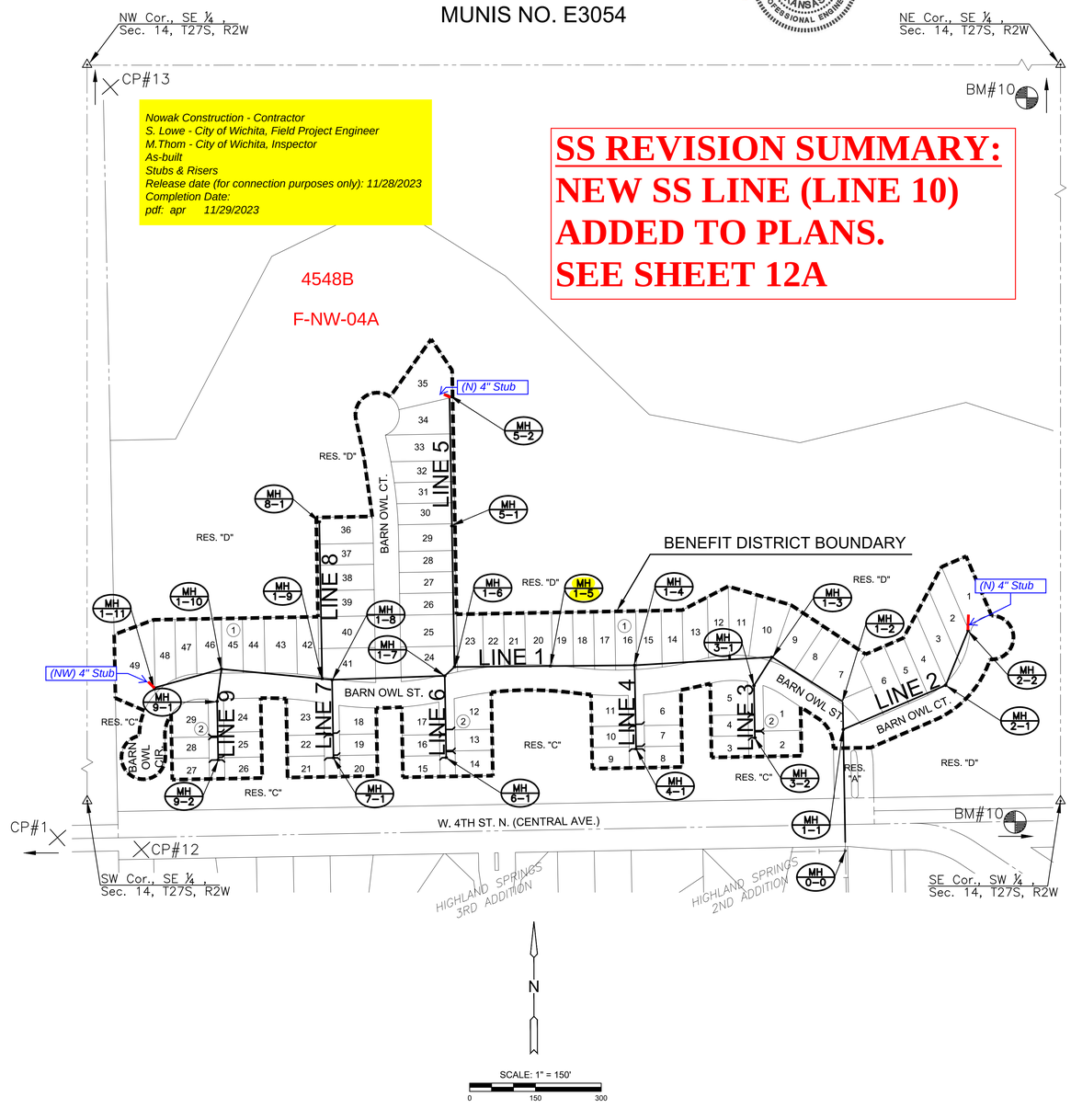
18. ALL TRAFFIC CONTROL DEVICES IN THE WORK ZONE (INCLUDING MARKINGS AND SIGNS) AND THEIR INSTALLATION AND MAINTENANCE SHALL COMPLY WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL TRAFFIC CONTROL DEVICES IN THE TRAVELED WAY OR CLEAR ZONE SHALL BE CRASHWORTHY (NCHRP REPORT 350 OR MASH COMPLIANT).
    http://safety.fhtwa.dot.gov./roadwaydept/policy guide/road hardware/wzd

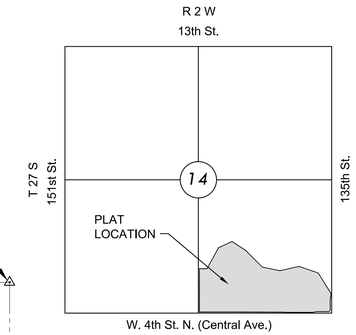
19. ALL CONSTRUCTION EQUIPMENT, INCLUDING VEHICLES, MATERIALS, AND DEBRIS, SHALL BE STORED OUTSIDE OF THE CLEAR ZONE. WHERE THIS CANNOT BE ACHIEVED THE CONTRACTOR SHALL PLACE APPROPRIATE SIGNS, ABJECT IDENTIFIERS, AND/OR BARRICADES IN COMPLIANCE WITH MUTCD.

20. EXCEPT WHEN REQUIRED FOR SAFETY, TRAFFIC CONTROL SHALL NOT BLOCK ANY LANES OR SIDEWALKS WHEN WORK IS NOT BEING PERFORMED.

21. SAND BACKFILL. IF SUITABLE SAND MATERIAL IS FOUND ON SITE FOR BACKFILL, CONTRACTOR MAY BE ALLOWED TO USE ON SITE MATERIAL AT THE DISCRETION OF THE PROJECT ENGINEER. IF THE PROJECT ENGINEER DETERMINES ON-SITE MATERIAL IS NOT SUITABLE, THEN CONTRACTOR MUST HAUL IN FILL SAND. IN THE EVENT NOT ENOUGH SUITABLE MATERIAL FOR BACKFILL IS FOUND ON-SITE, THE BALANCE SHALL BE PROVIDED BY CONTRACTOR.

22. DEVELOPER FOR THIS PROJECT IS:
    PERFECTION SIGNATURE PROPERTIES, LLC
    443 N MAIZE RD
    WICHITA, KS 67212
    SCOTT LEHNER/JASON RONK
    316.729.1900





VICINITY MAP

No Scale

INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
01	TITLE SHEET
02-04	SANITARY DETAILS
05-07	LINE 1
08	LINE 2
09	LINE 3 & 4
10	LINE 5
11	LINE 6 & 7
12	LINE 8 & 9
14	BUBBLE MAP
16-20	BMP SHEETS
21-23	PLAT

CONTROL POINTS

DATUM:
THE HORIZONTAL DATUM IS BASED ON THE KANSAS COORDINATE SYSTEM OF 1983, NAD83(2011), EPOCH:2010.0000, SOUTH ZONE. COORDINATES SHOWN HAVE BEEN MODIFIED TO THE GROUND USING A COMBINED ADJUSTMENT FACTOR OF 1.0001200144. STATE PLANE COORDINATES CAN BE CALCULATED BY MULTIPLYING THE SHOWN VALUES BY 0.99988.

ALL ELEVATIONS SHOWN ARE BASED ON THE NAVD 88 VERTICAL DATUM.

CP#1
N: 1687833.941 E: 1597017.365 EL: 1388.832
5/8" x 24" REBAR w/ ALUM. MKEC CONTROL CAP NE OF THE SW CORNER OF SECTION 14. BASE POINT.

CP#12
N: 1687798.979 E: 1599657.272 EL: 1364.621
5/8" x 24" REBAR w/ ALUM. MKEC CONTROL CAP SE OF THE S1/4 CORNER OF SECTION 14.

CP#13
N: 1690394.971 E: 1599584.309 EL: 1365.514
5/8" x 24" REBAR w/ ALUM. MKEC CONTROL CAP SE OF THE CENTER CORNER OF SECTION 14.

BM#10
N: 1690648.796 E: 1602120.242 EL: 1351.535
MAGW IN TOP OF CURB NEAR THE NW CORNER OF SOUTH INLET ON LOST CREAK AND 135TH.

BM#11
N: 1687910.359 E: 1602163.413 EL: 1349.135
MAGW IN TOP CONCRETE TRAFFIC SIGNAL MH AT THE NW QUADRANT OF 135TH AND CENTRAL.

NOTE:
ALL CONTROL POINTS SHOWN HAVE ELEVATIONS ESTABLISHED BY DIFFERENTIAL LEVELING AND CAN BE USED AS TEMPORARY BENCHMARKS. WHEN USING A CONTROL POINT AS A TEMPORARY BENCHMARK, IT IS RECOMMENDED THAT CROSS-CHECKS BE MADE TO OTHER CONTROL POINTS OR BENCHMARKS TO CONFIRM ELEVATIONS PRIOR TO USE.

MKEC
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SANITARY SEWER PLANS FOR
COURTYARDS AT JACOBS FARM
WICHITA, KS

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TITLE SHEET

PROJECT NO.	468-2023-002757
DATE	APRIL 2023
SCALE	1" = 150'

DESIGNED	DRAWN	CHECKED
DFL	JRB	SPE

NO.	REVISION	DATE

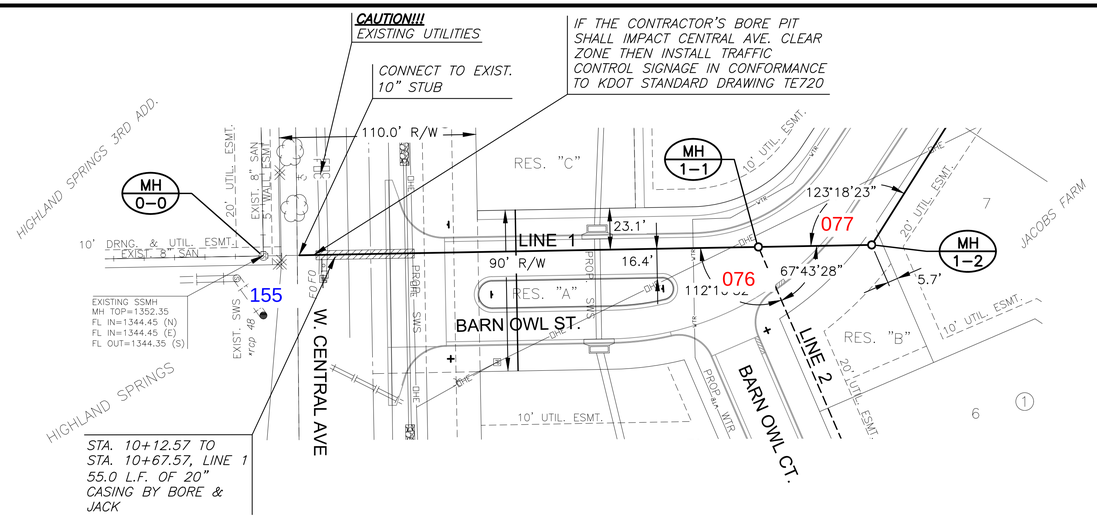
SHEET NO.
01 OF 23

Construction Engineering Division
1801 S. McLean Blvd., Suite B
Wichita KS, 67213
(316) 268-4027

Sanitary Sewer Riser Table

Project Name: WDS to serve Courtyards at Jacobs Farm
Project Location: North side of Central, West of 135th St West
Project No: 468-2023-002757
MUNIS No: E3054 / 47268123
Contractor: Nowak Construction Co., Inc.
Inspector: Mike Thom

Riser No.	Line No.	Station	Distance from Main to Riser (Lt./Rt.)	Distance from		Comment
				Upstream MH	Downstream MH	
1	3	11+41.94	15' (Rt.)	54.16'	141.94'	
2	3	11+44.19	15' (Rt.)	51.91'	144.19'	
3	3	11+79.94	22' (Lt.)	16.16'	179.94'	
4	3	11+82.19	22' (Lt.)	14.00'	182.19'	
5	3	11+96.06	15' (Rt.)	0.04'	196.06'	MH Connection
6	4	11+34.54	20' (Lt.)	56.36'	134.54'	
7	4	11+36.79	15' (Rt.)	54.11'	136.79'	
8	4	11+39.04	15' (Rt.)	51.86'	139.04'	
9	4	11+84.79	20' (Lt.)	6.11'	184.79'	
10	4	11+90.92	20' (Lt.)	-0.02	190.92	MH Connection
11	4	11+90.92	15' (Rt.)	-0.02	190.92'	MH Connection
12	6	11+22.41	20' (Lt.)	64.09'	122.41'	
13	6	11+32.41	15' (Rt.)	54.09'	132.41'	
14	6	11+34.66	15' (Rt.)	51.84'	122.66'	
15	6	11+70.41	20' (Lt.)	16.09'	170.41'	
16	6	11+72.66	20' (Lt.)	13.84'	122.66'	
17	6	11+86.54	15' (Rt.)	-0.04'	186.54'	MH Connection
18	7	11+21.67	15' (Lt.)	56.43'	121.77'	
19	7	11+23.93	20' (Rt.)	54.17'	124.03'	
20	7	11+26.18	20' (Rt.)	51.92'	126.28'	
21	7	11+71.92	~~20' (Rt.)~~ 15' Lt.	6.18'	172.02'	
22	7	11+78.05	15' (Lt.)	0.05'	178.15'	MH Connection
23	7	11+78.05	20' (Rt.)	0.05'	178.15'	MH Connection
24	9	11+43.85	15' (Lt.)	64.15'	143.85'	
25	9	11+53.85	20' (Rt.)	54.15'	153.85'	
26	9	11+56.10	20' (Rt.)	51.90'	156.10'	
27	9	12+01.85	15' (Lt.)	6.15'	201.85'	
28	9	12+07.97	15' (Lt.)	0.03'	207.97'	MH Connection
29	9	12+07.97	20' (Rt.)	0.03'	207.97'	MH Connection
30	1	16+06.19	10' (Rt.)	218.51'	95.49'	
31	1	16+08.44	10' (Rt.)	216.26'	97.74'	



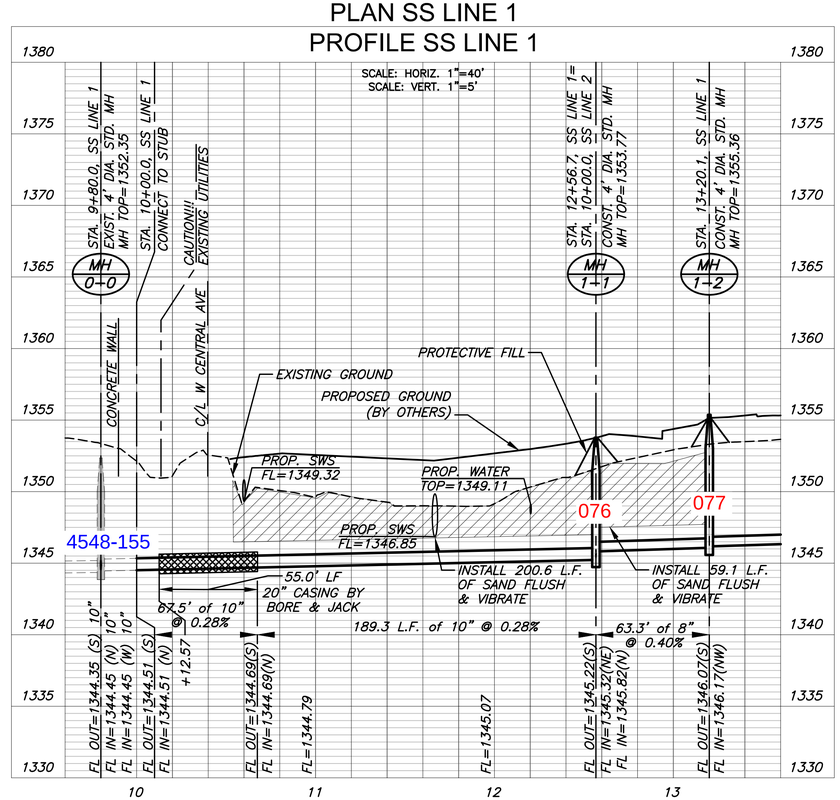
NOTE:
CONTRACTOR TO VERIFY THE DEPTH AND LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.

N

SCALE: 1"=40'
0 40 80

= SAND, FLUSH & VIBRATE

PLAN SS LINE 1
PROFILE SS LINE 1



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LINE 1

PROJECT NO.	468-2023-002757
DATE	APRIL 2023
SCALE	1"=40'

DESIGNED	DRAWN	CHECKED
DFL	LAL	SPE

NO.	REVISION	DATE

SHEET NO.
05 OF 23

PLOTTED: Friday, April 21, 2023 @ 08:37AM
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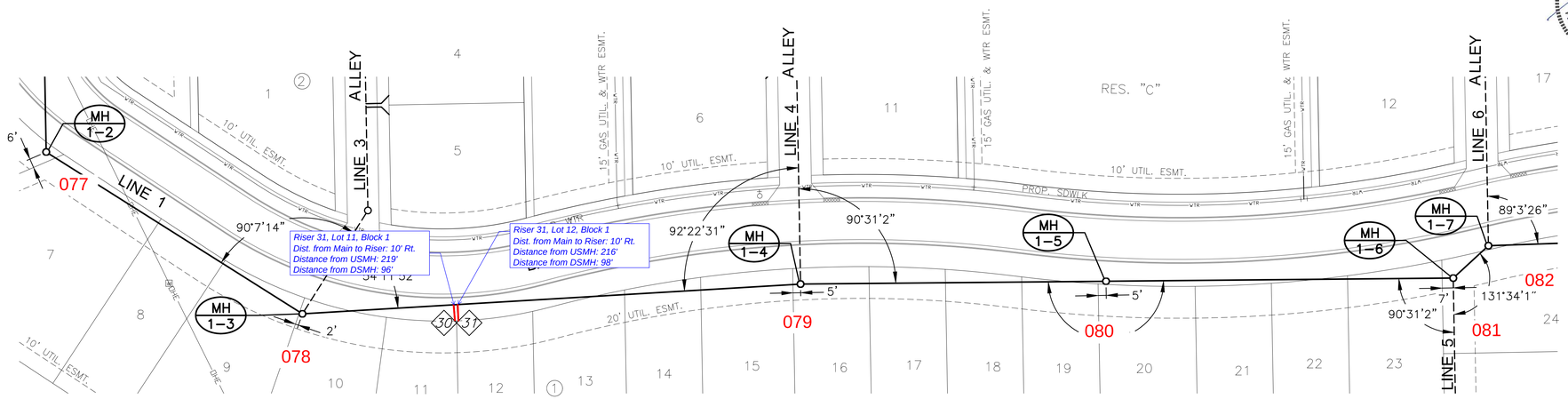

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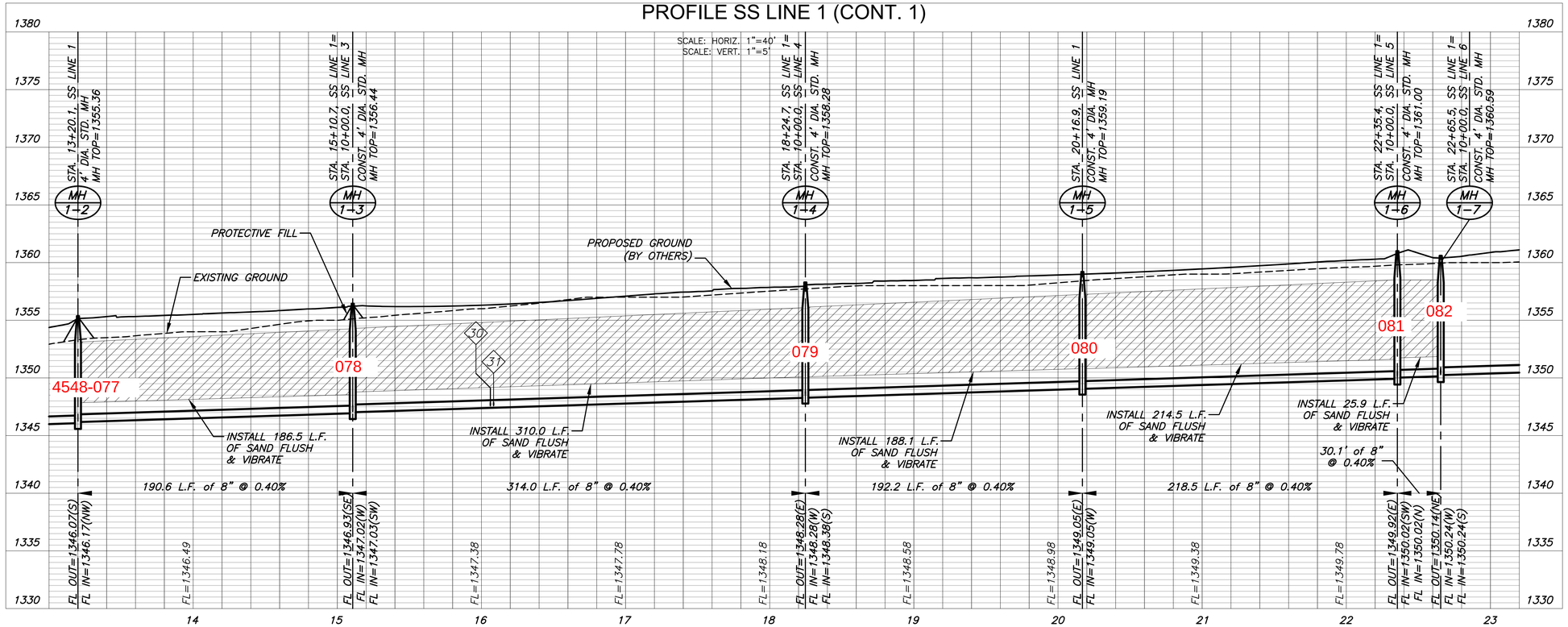

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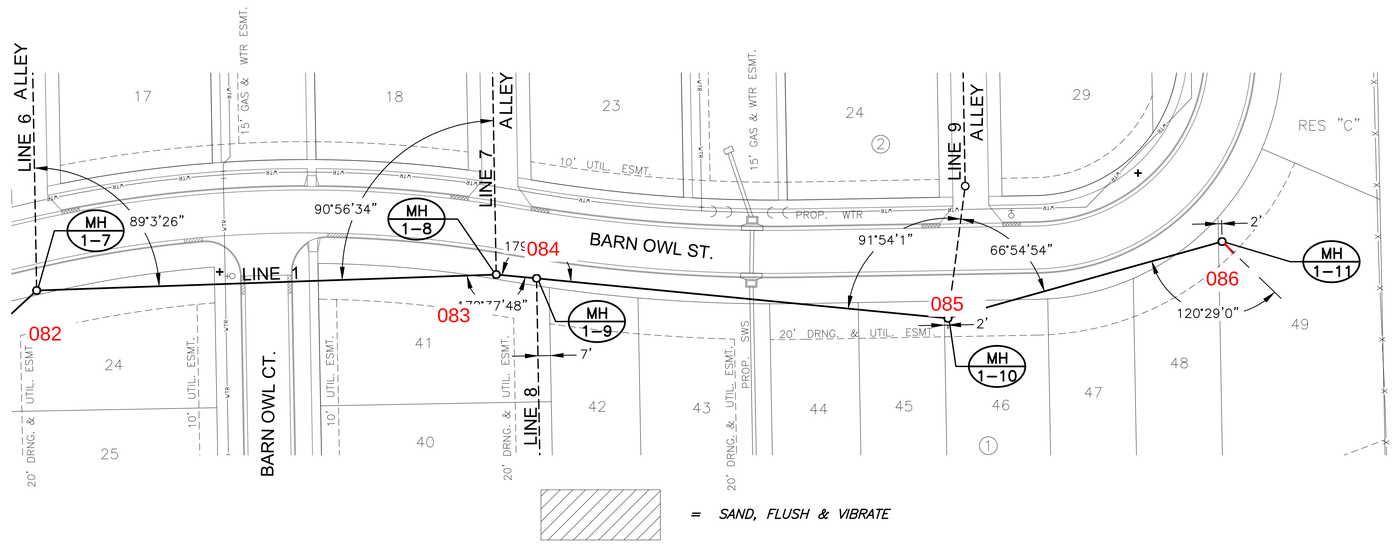
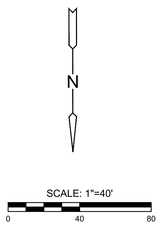
06 OF 23





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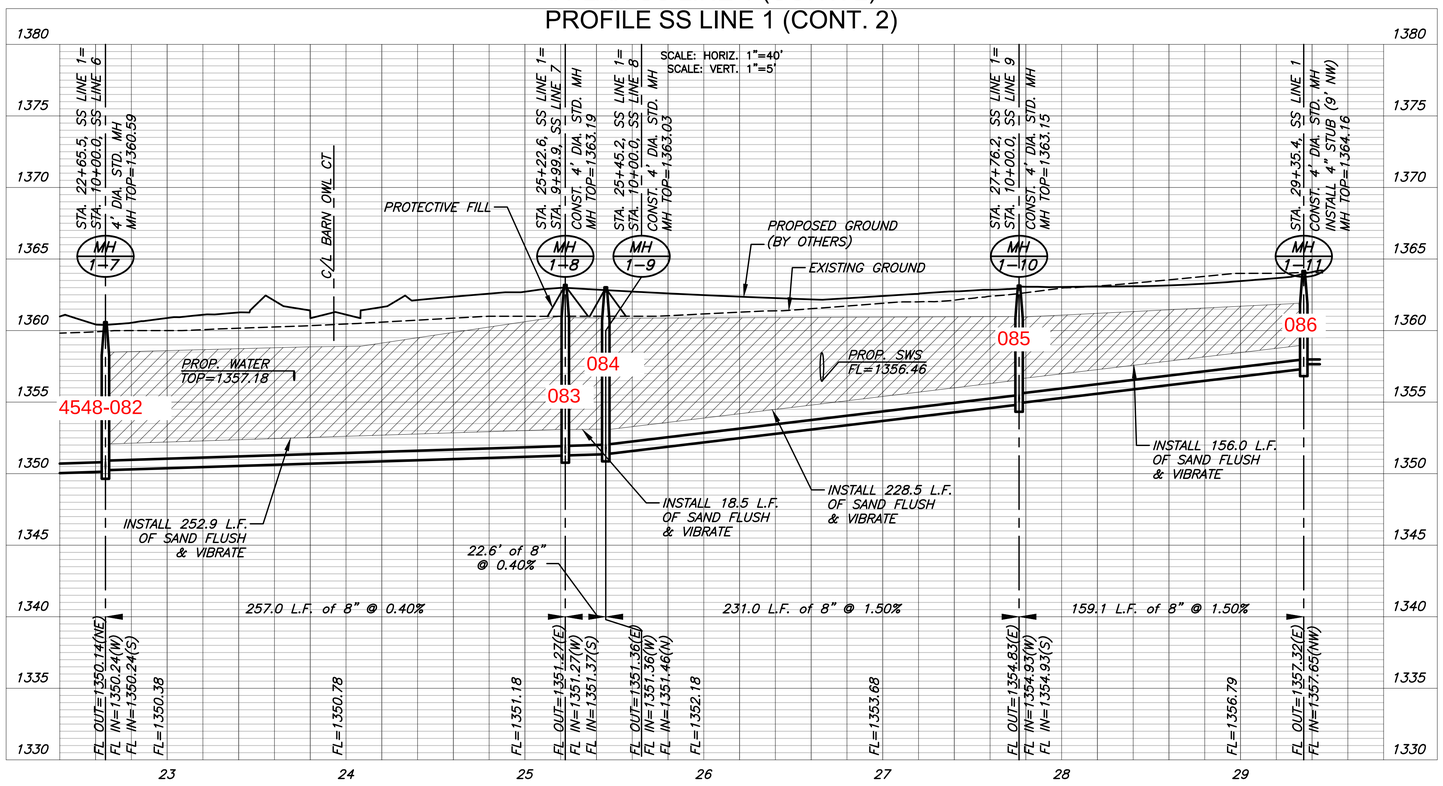

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LINE 1 (CONT. 2)

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07 OF 23

PLOTTED: Friday, April 21, 2023 @ 08:36AM
J:\PROJECTS\2022\2201\0298_PERFECTION_JACOBS 135TH AND CENTRAL\00_220298 CAD\SHTS\05 CIVIL\SAN\22298-05-2202.DWG

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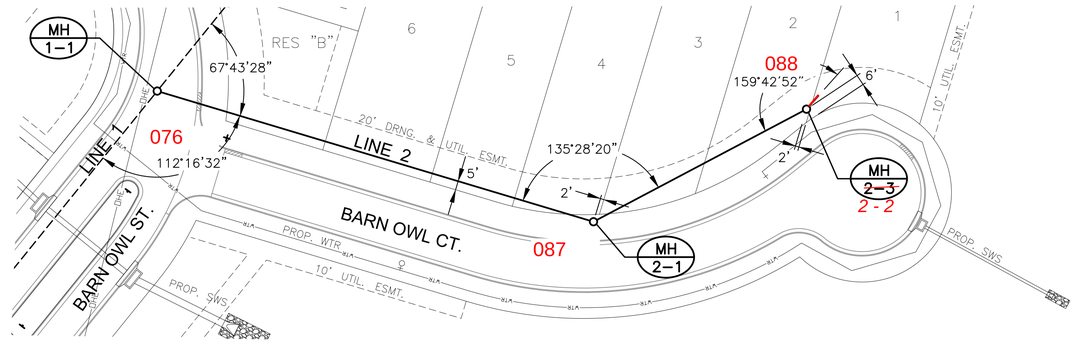

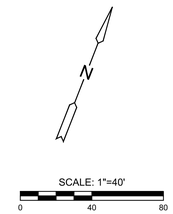

= SAND, FLUSH & VIBRATE

NOTE:
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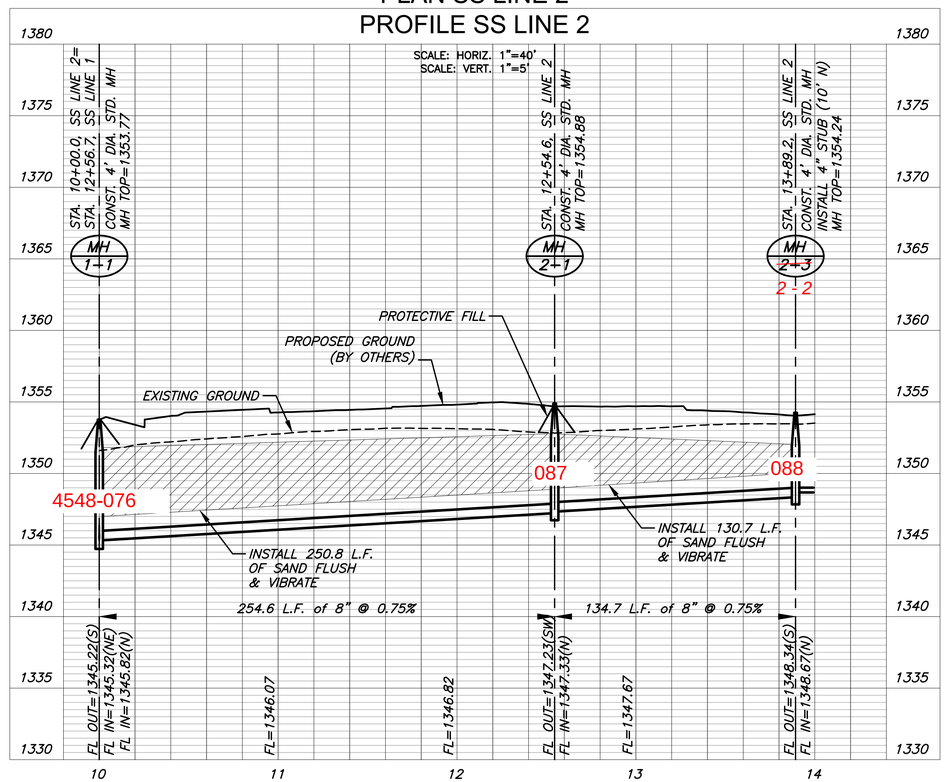
PROFILE SS LINE 2



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SANITARY SEWER PLANS FOR
COURTYARDS AT JACOBS FARM
WICHITA, KS

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LINE 2

PROJECT NO.	468-2023-002757
DATE	APRIL 2023
SCALE	1"=40'

DESIGNED	DRAWN	CHECKED
DFL	LAL	SPE

NO.	REVISION	DATE

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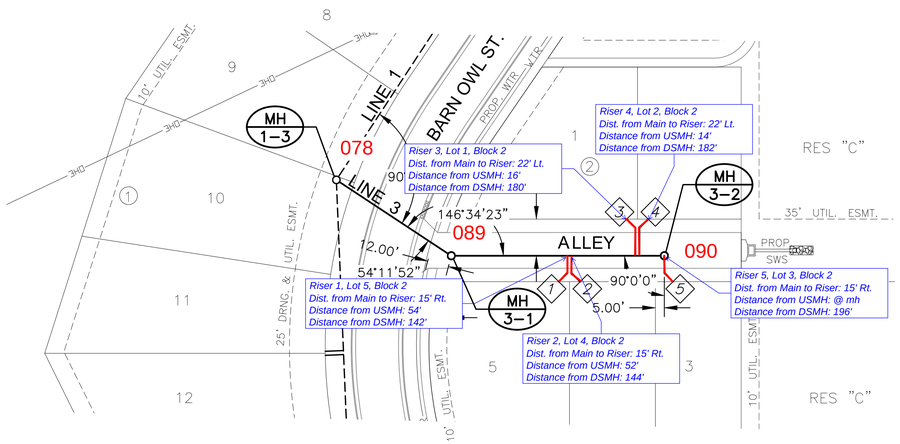
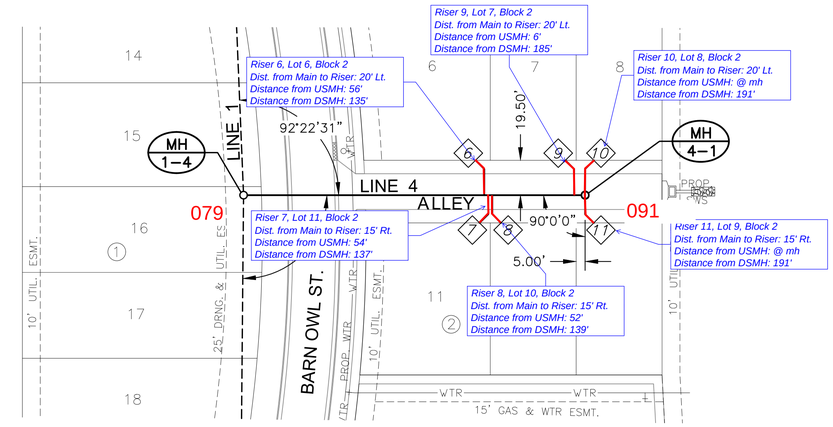
08 OF 23

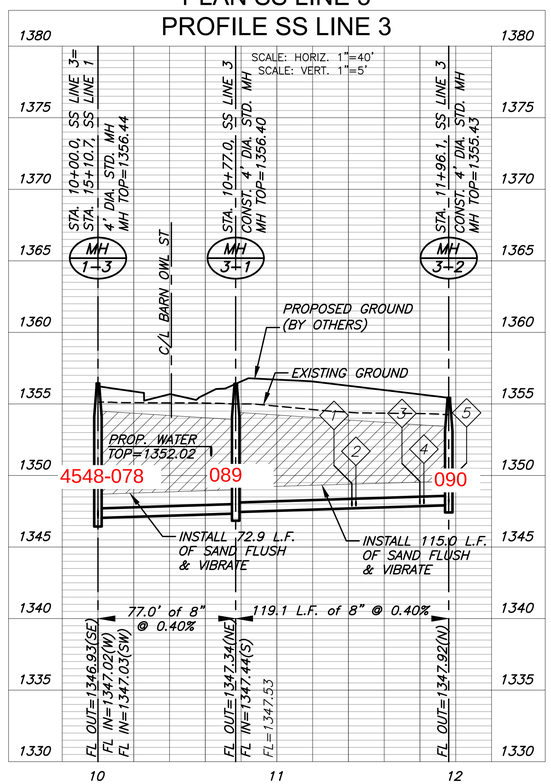
J:\PROJECTS\2022\2201\0298_PERFECTION_JACOBS 135TH AND CENTRAL\00_220298 CAD\SHTS\05 CIVIL\SAN\22296-05-2203.DWG

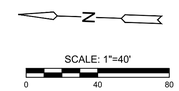




NOTE:
CONTRACTOR TO VERIFY THE DEPTH AND LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.

PLAN SS LINE 3
PROFILE SS LINE 3





= SAND, FLUSH & VIBRATE

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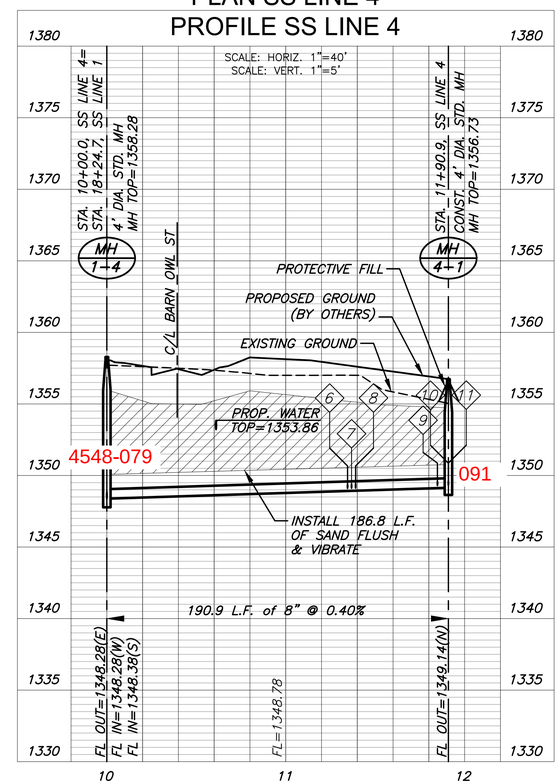

PLOTTED: Friday, April 21, 2023 @ 08:39AM

J:\PROJECTS\02222201010298_PERFECTION_JACOBS 135TH AND CENTRAL\00_220298 CAD\SHTS\05 CIVIL\SAN\22298-05-2204.DWG

SCOTT PRESTON LAIS LICENSED 24423 KANSAS PROFESSIONAL ENGINEER 4/21/23

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SANITARY SEWER PLANS FOR
COURTYARDS AT JACOBS FARM
WICHITA, KS

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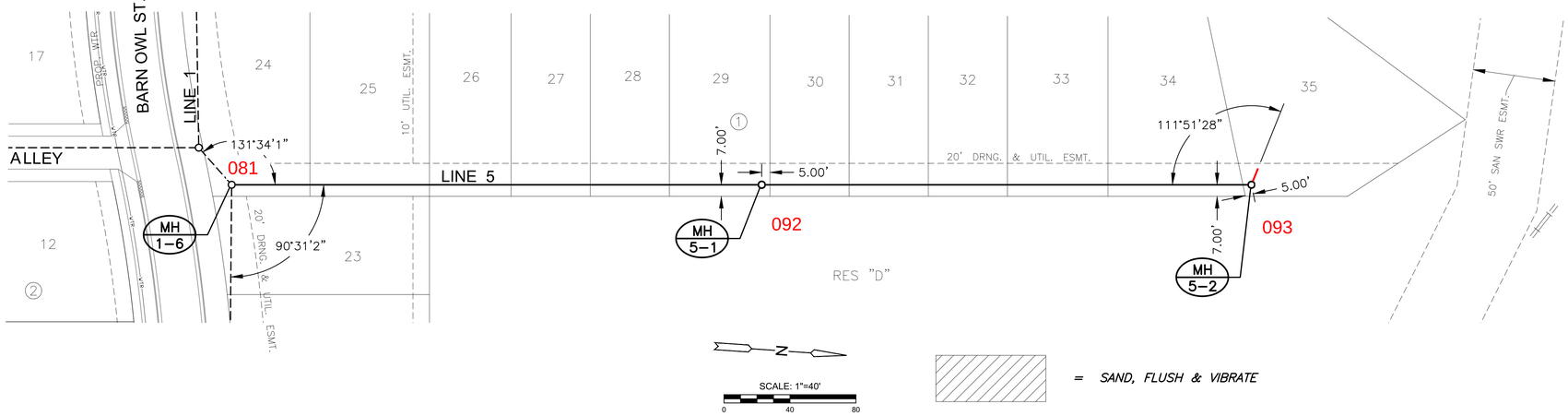
LINES 3 & 4

PROJECT NO.	468-2023-002757
DATE	APRIL 2023
SCALE	1"=40'

DESIGNED	DRAWN	CHECKED
DFL	LAL	SPE

NO.	REVISION	DATE

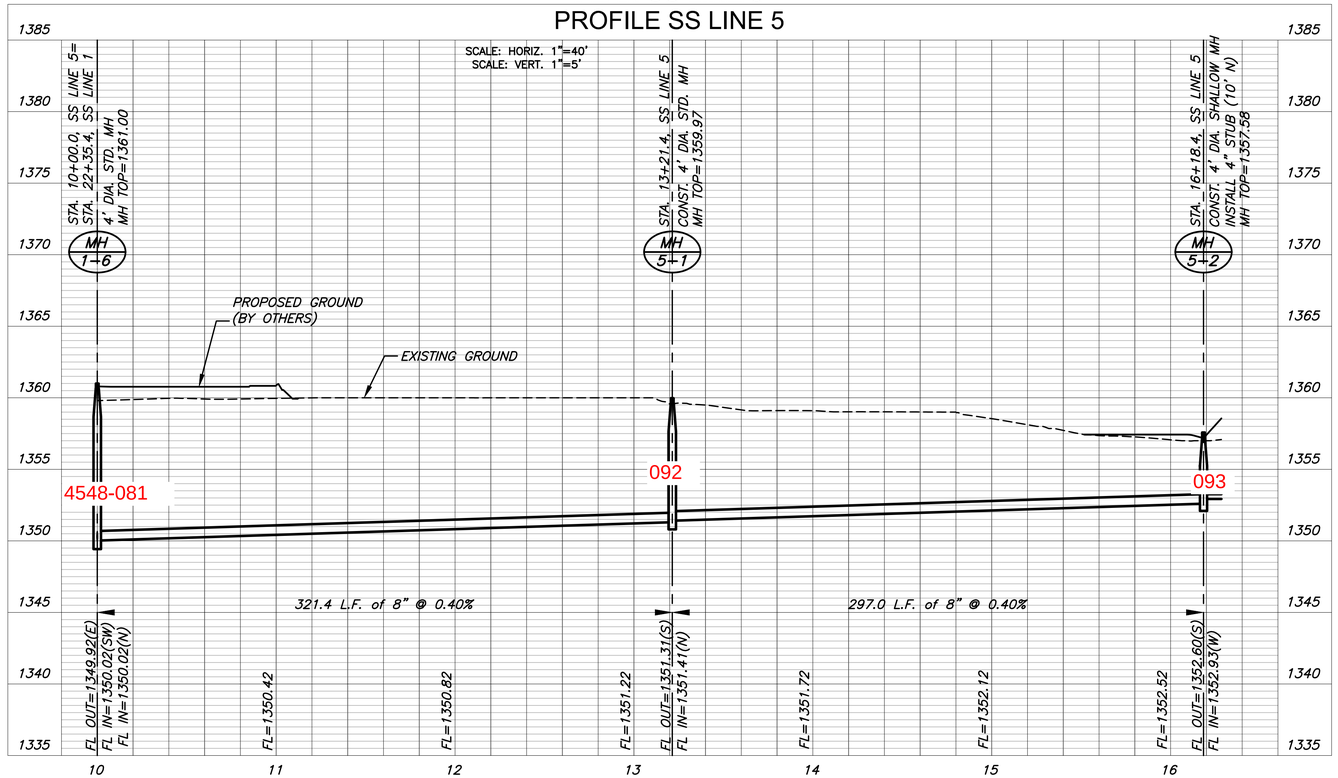
SHEET NO.
09 OF 23



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

PLAN SS LINE 5

PROFILE SS LINE 5



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SANITARY SEWER PLANS FOR

COURTYARDS AT JACOBS FARM

WICHITA, KS

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LINE 5

PROJECT NO.	468-2023-002757
DATE	APRIL 2023
SCALE	1"=40'

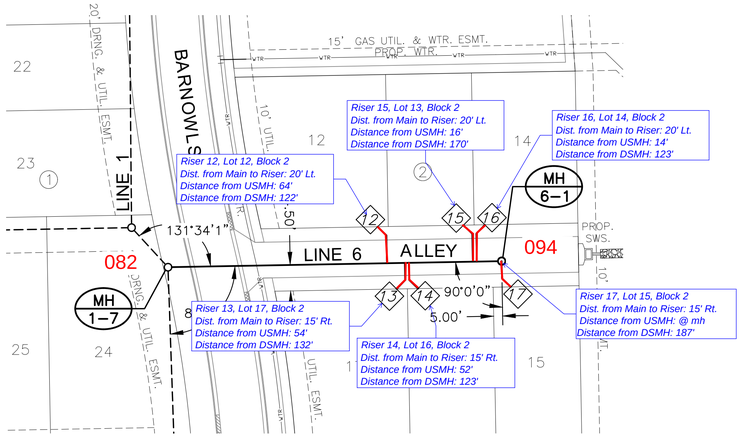
DESIGNED	DRAWN	CHECKED
DFL	LAL	SPE

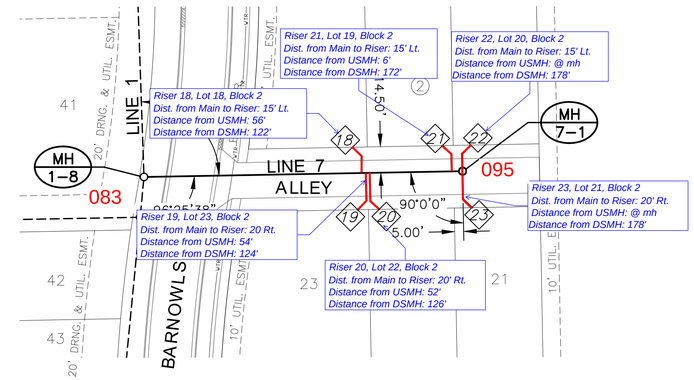
NO.	REVISION	DATE

SHEET NO.
10 OF 23

PLOTTED: Friday, April 21, 2023 @ 08:40AM

J:\PROJECTS\2022\2201910298_PERFECTION_JACOBS 135TH AND CENTRAL\00_220298 CAD\SHTS\05 CIVIL\SAN\220298-05-2205.DWG



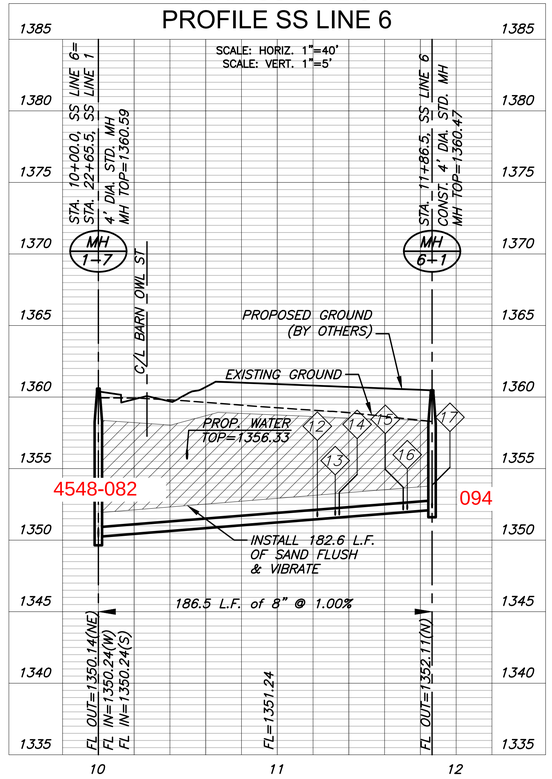


NOTE:
CONTRACTOR TO VERIFY THE DEPTH AND LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.

N

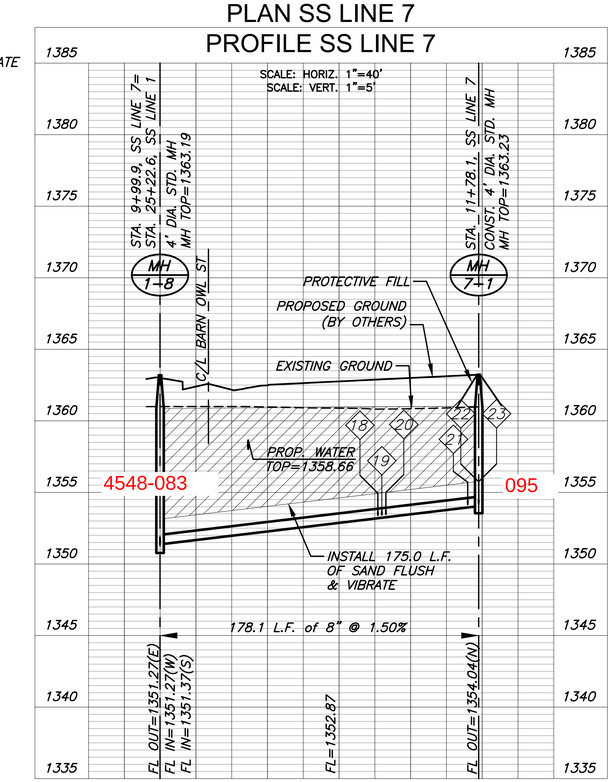
SCALE: 1"=40'
0 40 80

PLAN SS LINE 6
PROFILE SS LINE 6



= SAND, FLUSH & VIBRATE

PLAN SS LINE 7
PROFILE SS LINE 7



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SANITARY SEWER PLANS FOR
COURTYARDS AT JACOBS FARM
WICHITA, KS

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LINES 6 & 7

PROJECT NO.	468-2023-002757
DATE	APRIL 2023
SCALE	1"=40'

DESIGNED	DRAWN	CHECKED
DFL	LAL	SPE

NO.	REVISION	DATE

SHEET NO.
11 OF 23

PLOTTED: Friday, April 21, 2023 @ 08:41AM
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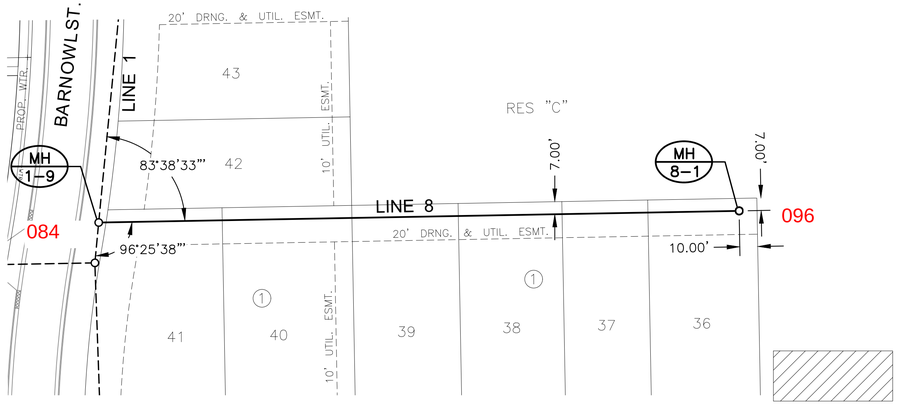
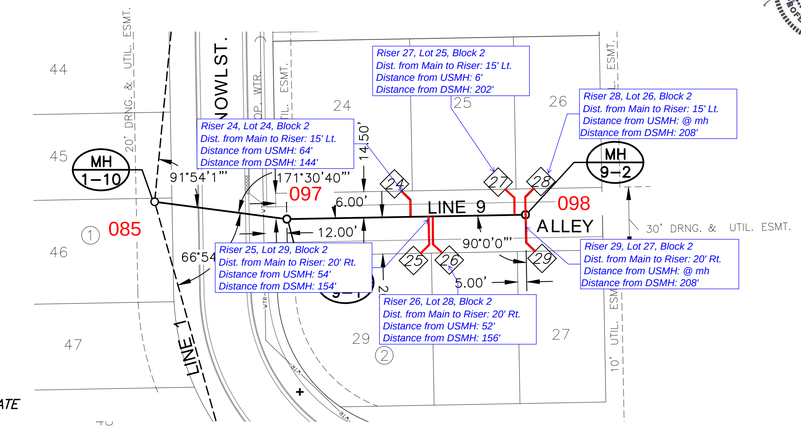


= SAND, FLUSH & VIBRATE

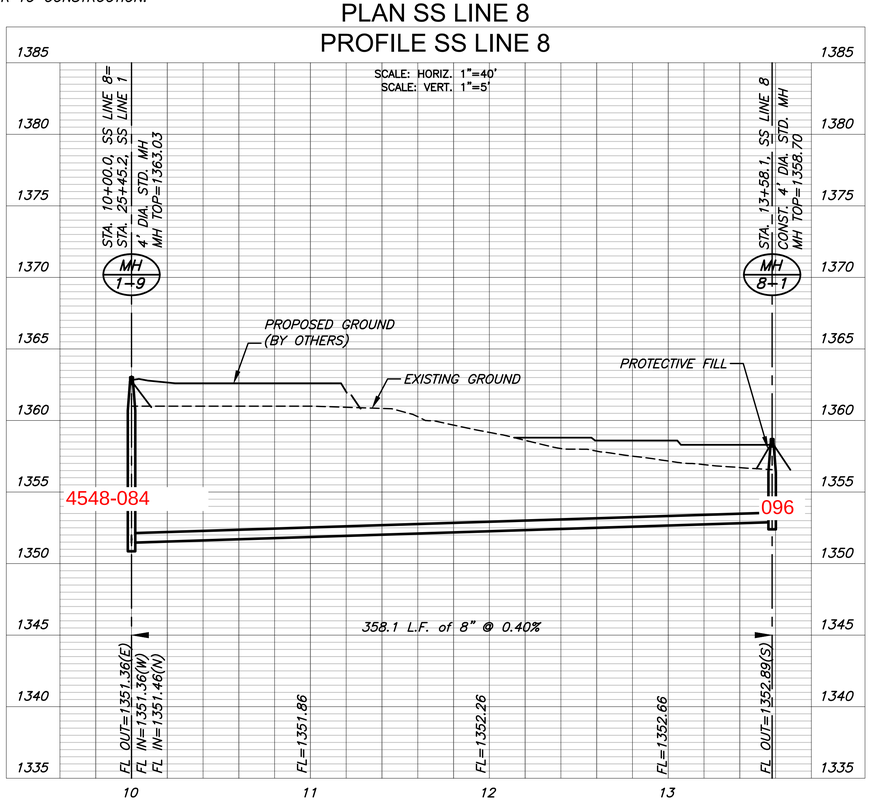
SCALE: 1"=40'
0 40 80



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

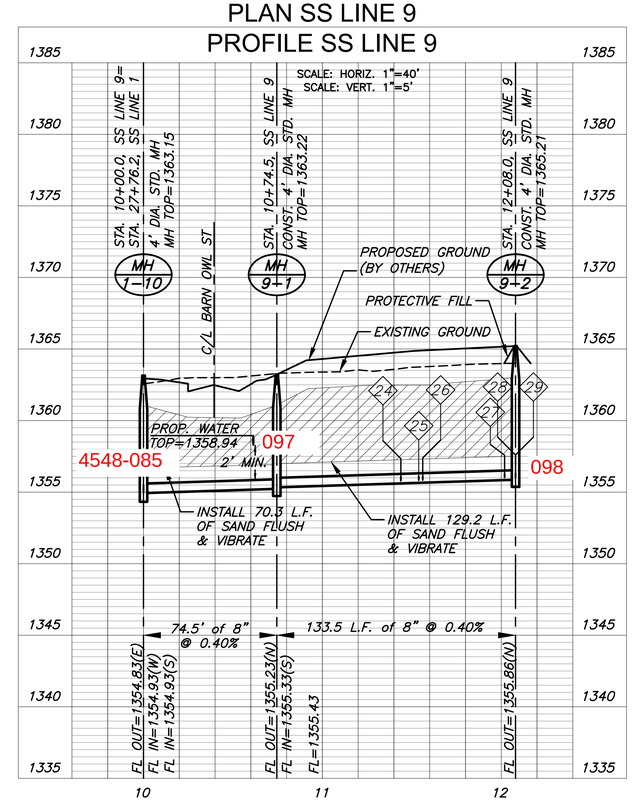
PLAN SS LINE 8

PROFILE SS LINE 8



PLAN SS LINE 9

PROFILE SS LINE 9



PLOTTED: Friday, April 21, 2023 @ 08:41AM

J:\PROJECTS\2022\2201010296_PERFECTION_JACOBS 135TH AND CENTRAL\00_220296 CAD\SHTS\05 CIVIL\SAN\22296-05-2207.DWG

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24423
KANSAS
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SANITARY SEWER PLANS FOR

COURTYARDS AT JACOBS FARM

WICHITA, KS

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LINES 8 & 9

PROJECT NO.	468-2023-002757
DATE	APRIL 2023
SCALE	1"=40'

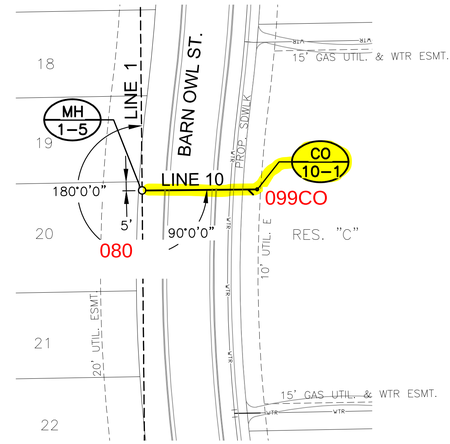
DESIGNED	DRAWN	CHECKED
DFL	LAL	SPE

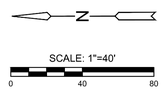
NO.	REVISION	DATE

SHEET NO.
12 OF 23

PLOTTED: Wednesday, August 02, 2023 @ 01:27PM

NEW SHEET PER REVISION



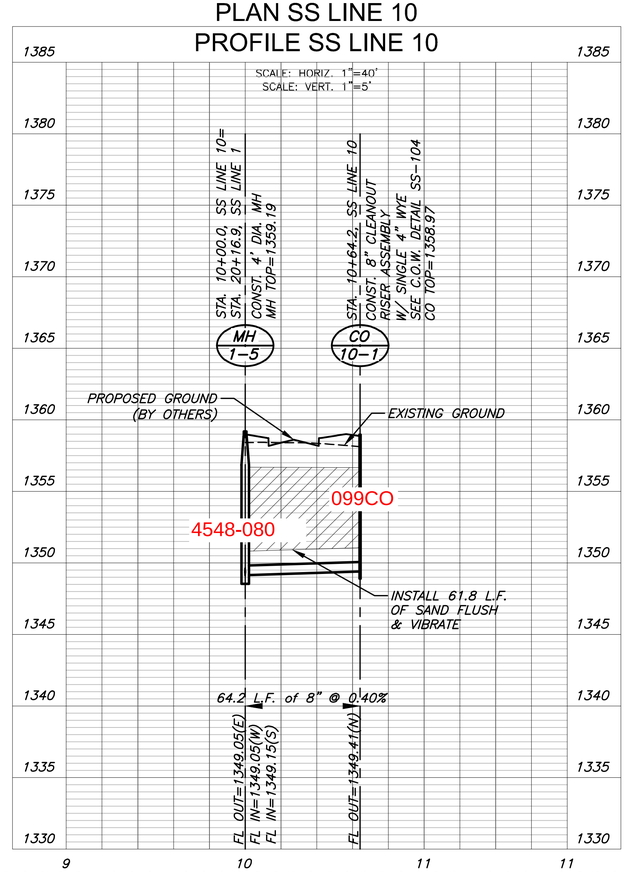


NOTE:
CONTRACTOR TO VERIFY THE DEPTH AND LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.

= SAND, FLUSH & VIBRATE

PLAN SS LINE 10

PROFILE SS LINE 10



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SANITARY SEWER PLANS FOR

COURTYARDS AT JACOBS FARM

WICHITA, KS

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LINE 10

PROJECT NO.	468-2023-002757
DATE	APRIL 2023
SCALE	1"=40'

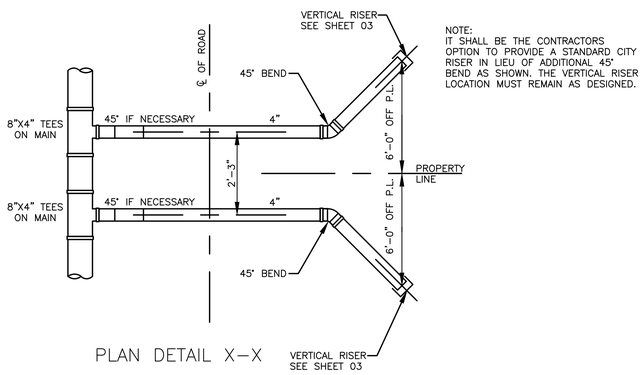
DESIGNED	DRAWN	CHECKED
DFL	BKS	SPE

NO.	REVISION	DATE
1	ADDED LINE 10	08/2/23

SHEET NO.

12A OF 23

J:\PROJECTS\2022\2201\0129_PERFECTION_JACOBS 135TH AND CENTRAL\00_2012\29 CAD\SHTS\05 CIVIL\SAN\22296-05-2207A.DWG



PLAN DETAIL X-X

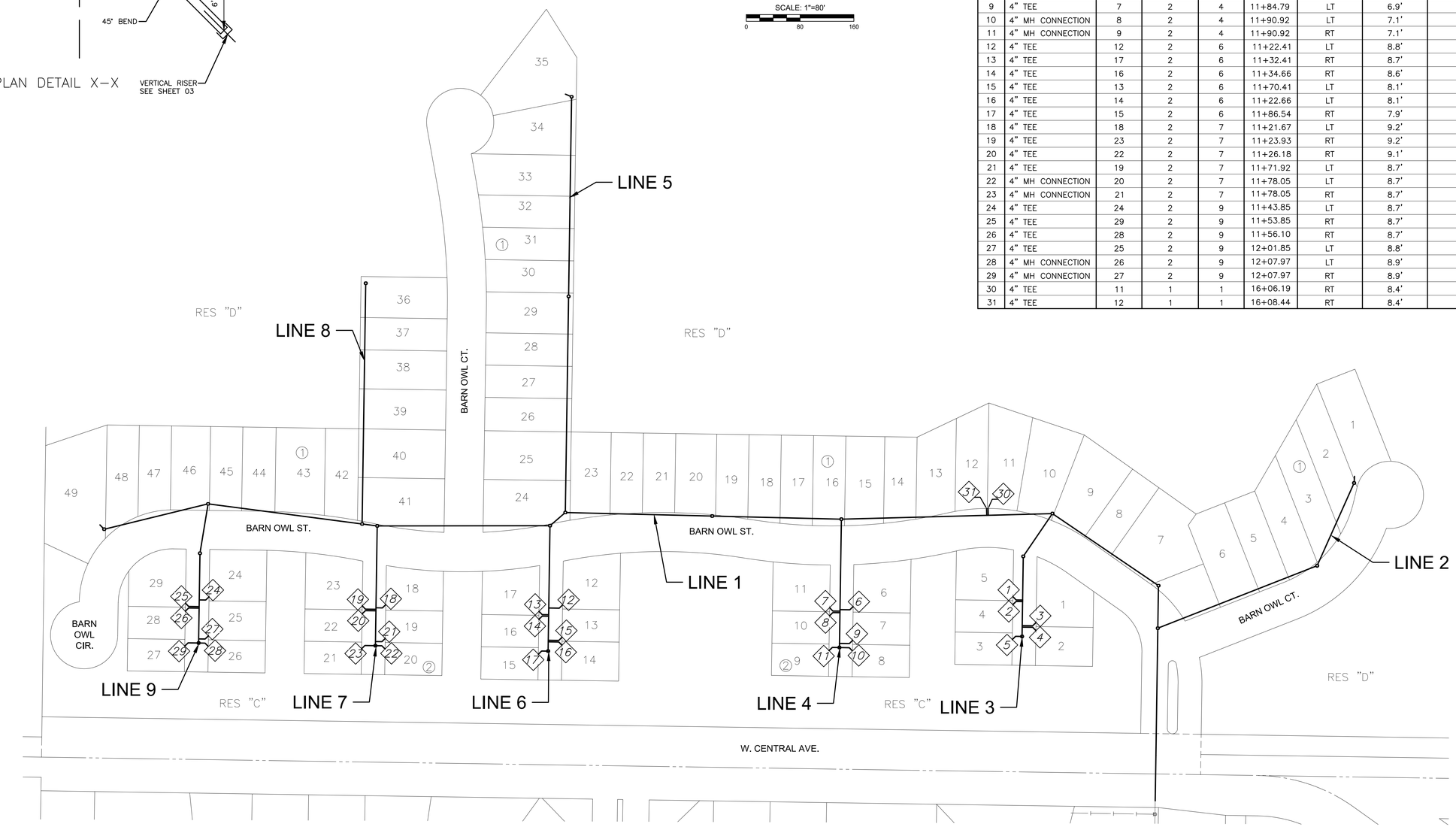
NOTE:
IT SHALL BE THE CONTRACTORS OPTION TO PROVIDE A STANDARD CITY RISER IN LIEU OF ADDITIONAL 45° BEND AS SHOWN. THE VERTICAL RISER LOCATION MUST REMAIN AS DESIGNED.

SCOTT PRESTON EVANS
LIC. ENGINEER
24423
4/21/23
KANSAS
PROFESSIONAL ENGINEER

N

SCALE: 1"=80'
0 80 160

SEWER SERVICE RISER TABLE							FOR INFORMATION ONLY	
		LOCATION					APPROXIMATE LENGTH	
NO.	TYPE	LOT NO.	BLOCK NO.	LINE NO.	STATION	DIRECTION	VERTICAL (FT)	HORIZONTAL (FT)
1	4" TEE	5	2	3	11+41.94	RT	8.0'	16.5'
2	4" TEE	5	2	3	11+44.19	RT	8.0'	16.5'
3	4" TEE	1	2	3	11+79.94	LT	7.3'	22.5'
4	4" TEE	2	2	3	11+82.19	LT	7.3'	22.5'
5	4" MH CONNECTION	3	2	3	11+96.06	RT	7.0'	16.5'
6	4" TEE	6	2	4	11+34.54	LT	8.3'	21.5'
7	4" TEE	11	2	4	11+36.79	RT	8.2'	17.5'
8	4" TEE	10	2	4	11+39.04	RT	8.2'	17.5'
9	4" TEE	7	2	4	11+84.79	LT	6.9'	21.5'
10	4" MH CONNECTION	8	2	4	11+90.92	LT	7.1'	21.5'
11	4" MH CONNECTION	9	2	4	11+90.92	RT	7.1'	17.5'
12	4" TEE	12	2	6	11+22.41	LT	8.8'	22.5'
13	4" TEE	17	2	6	11+32.41	RT	8.7'	16.5'
14	4" TEE	16	2	6	11+34.66	RT	8.6'	16.5'
15	4" TEE	13	2	6	11+70.41	LT	8.1'	22.5'
16	4" TEE	14	2	6	11+22.66	LT	8.1'	22.5'
17	4" TEE	15	2	6	11+86.54	RT	7.9'	16.5'
18	4" TEE	18	2	7	11+21.67	LT	9.2'	16.5'
19	4" TEE	23	2	7	11+23.93	RT	9.2'	22.5'
20	4" TEE	22	2	7	11+26.18	RT	9.1'	22.5'
21	4" TEE	19	2	7	11+71.92	LT	8.7'	16.5'
22	4" MH CONNECTION	20	2	7	11+78.05	LT	8.7'	16.5'
23	4" MH CONNECTION	21	2	7	11+78.05	RT	8.7'	22.5'
24	4" TEE	24	2	9	11+43.85	LT	8.7'	16.5'
25	4" TEE	29	2	9	11+53.85	RT	8.7'	22.5'
26	4" TEE	28	2	9	11+56.10	RT	8.7'	22.5'
27	4" TEE	25	2	9	12+01.85	LT	8.8'	16.5'
28	4" MH CONNECTION	26	2	9	12+07.97	LT	8.9'	16.5'
29	4" MH CONNECTION	27	2	9	12+07.97	RT	8.9'	22.5'
30	4" TEE	11	1	1	16+06.19	RT	8.4'	10.3'
31	4" TEE	12	1	1	16+08.44	RT	8.4'	10.3'



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SANITARY SEWER PLANS FOR

COURTYARDS AT JACOBS FARM

WICHITA, KS

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RISER MAP

PROJECT NO.	468-2023-002757
DATE	APRIL 2023
SCALE	1"=80'

DESIGNED	DRAWN	CHECKED
DFL	LAL	SPE

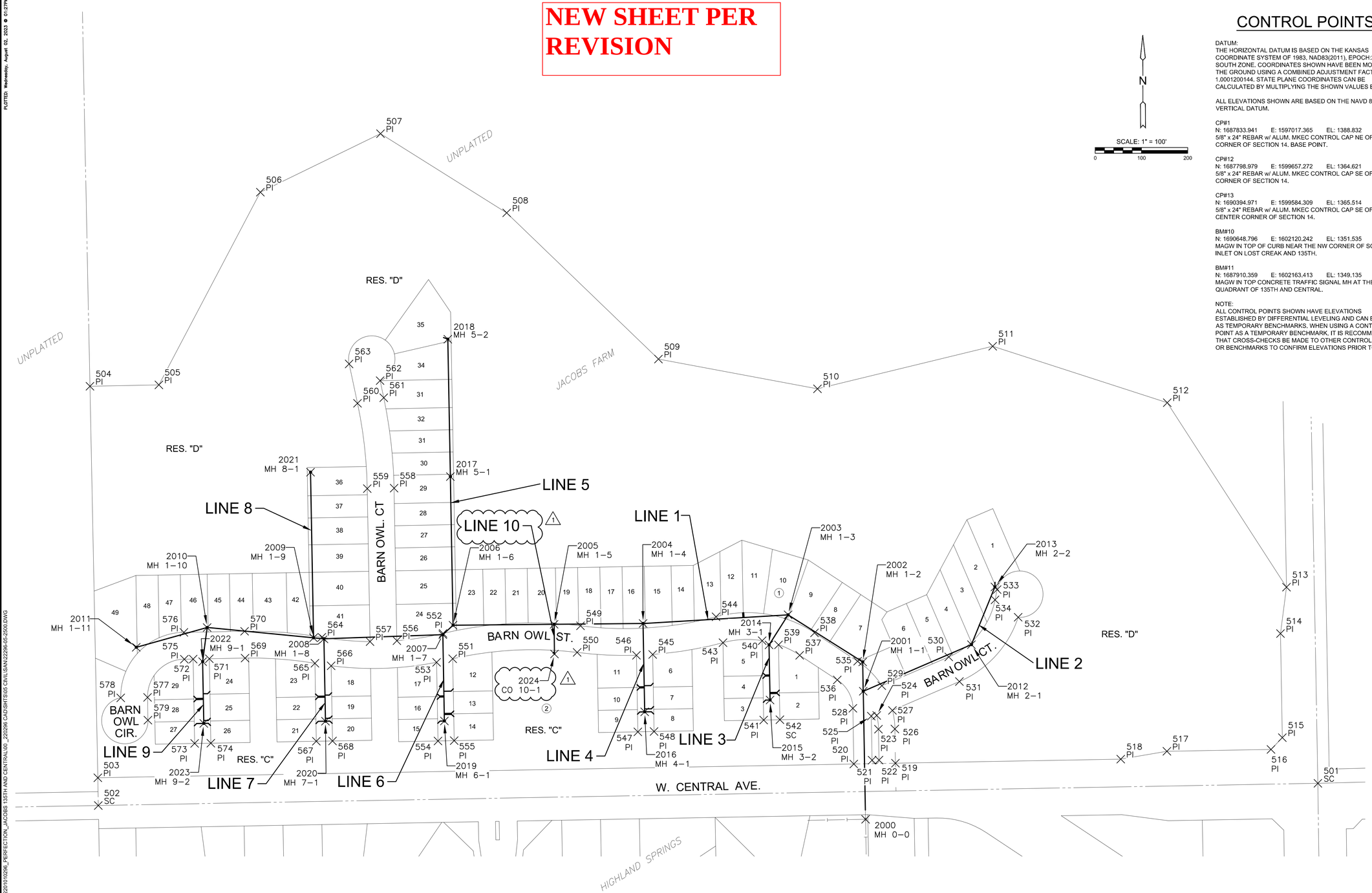
NO.	REVISION	DATE

SHEET NO.
13 OF 23

PLOTTED: Friday, April 21, 2023 @ 08:42AM

J:\PROJECTS\2022\2261010296_PERFECTION_JACOBS 135TH AND CENTRAL\00_220296 CAD\SHTS\05 CIVIL\SAN\220296-05-2301.DWG

NEW SHEET PER REVISION



CONTROL POINTS

DATUM:
THE HORIZONTAL DATUM IS BASED ON THE KANSAS COORDINATE SYSTEM OF 1983, NAD83(2011), EPOCH:2010.0000, SOUTH ZONE. COORDINATES SHOWN HAVE BEEN MODIFIED TO THE GROUND USING A COMBINED ADJUSTMENT FACTOR OF 1.0001200144. STATE PLANE COORDINATES CAN BE CALCULATED BY MULTIPLYING THE SHOWN VALUES BY 0.99988.

ALL ELEVATIONS SHOWN ARE BASED ON THE NAVD 88 VERTICAL DATUM.

CP#1
N: 1687833.941 E: 1597017.365 EL: 1388.832
5/8" x 24" REBAR w/ ALUM. MKEC CONTROL CAP NE OF THE SW CORNER OF SECTION 14. BASE POINT.

CP#12
N: 1687798.979 E: 1599657.272 EL: 1364.621
5/8" x 24" REBAR w/ ALUM. MKEC CONTROL CAP SE OF THE S1/4 CORNER OF SECTION 14.

CP#13
N: 1690394.971 E: 1599584.309 EL: 1365.514
5/8" x 24" REBAR w/ ALUM. MKEC CONTROL CAP SE OF THE CENTER CORNER OF SECTION 14.

BM#10
N: 1690648.796 E: 1602120.242 EL: 1351.535
MAGW IN TOP OF CURB NEAR THE NW CORNER OF SOUTH INLET ON LOST CREAK AND 135TH.

BM#11
N: 1687910.359 E: 1602163.413 EL: 1349.135
MAGW IN TOP CONCRETE TRAFFIC SIGNAL MH AT THE NW QUADRANT OF 135TH AND CENTRAL.

NOTE:
ALL CONTROL POINTS SHOWN HAVE ELEVATIONS ESTABLISHED BY DIFFERENTIAL LEVELING AND CAN BE USED AS TEMPORARY BENCHMARKS. WHEN USING A CONTROL POINT AS A TEMPORARY BENCHMARK, IT IS RECOMMENDED THAT CROSS-CHECKS BE MADE TO OTHER CONTROL POINTS OR BENCHMARKS TO CONFIRM ELEVATIONS PRIOR TO USE.

EVERY ATTEMPT HAS BEEN MADE TO INSURE ALL COORDINATE VALUES SHOWN ARE AN ACCURATE AND TRUE REPRESENTATION OF THE CURRENT PLANS. ALL VALUES ARE TO BE CONFIRMED WITH THE FINAL SIGNED PLAN SET BEFORE USE.

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SANITARY SEWER PLANS FOR

COURTYARDS AT JACOBS FARM

WICHITA, KS

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BUBBLE MAP

PROJECT NO.	468-2023-002757
DATE	APRIL 2023
SCALE	1"=150'

DESIGNED	DRAWN	CHECKED
DFL	LAL	SPE

NO.	REVISION	DATE
1	ADDED LINE 10	08/02/23

SHEET NO.
14 OF 23

PLOTTED: Wednesday, August 02, 2023 @ 01:27PM
J:\PROJECTS\2022\2201\0298_PERFECTION_JACOBS 135TH AND CENTRAL\00_220298 CAD\SHTS\05 CIVIL\SAN\22296-05-2500.DWG

PLAT POINTS			
Point #	Northing	Easting	Desc.
500	1690505.59	1602191.59	SC
501	1687873.71	1602240.11	SC
502	1687825.73	1599604.31	SC
503	1687885.72	1599603.11	PI
504	1688731.72	1599586.12	PI
505	1688734.71	1599735.09	PI
506	1689151.31	1599954.36	PI
507	1689277.70	1600214.26	PI
508	1689106.61	1600486.99	PI
509	1688790.54	1600814.95	PI
510	1688726.33	1601158.51	PI
511	1688818.17	1601537.21	PI
512	1688696.32	1601914.40	PI
513	1688297.54	1602172.29	PI
514	1688197.29	1602159.13	PI
515	1687972.33	1602163.28	PI
516	1687946.87	1602138.74	PI
517	1687942.78	1601913.78	PI
518	1687925.96	1601814.07	PI
519	1687917.10	1601327.16	PI

PLAT POINTS			
Point #	Northing	Easting	Desc.
520	1687915.46	1601237.18	PI
521	1687923.68	1601276.53	PI
522	1687923.95	1601291.53	PI
523	1687990.56	1601290.32	PI
524	1688020.31	1601286.65	PI
525	1688018.85	1601274.80	PI
526	1687991.21	1601325.81	PI
527	1688031.24	1601320.53	PI
528	1688035.73	1601234.99	PI
529	1688084.50	1601297.57	PI
530	1688146.90	1601442.32	PI
531	1688093.63	1601465.28	PI
532	1688232.48	1601592.20	PI
533	1688292.24	1601546.72	PI
534	1688270.11	1601542.26	PI
535	1688137.47	1601245.26	PI
536	1688097.01	1601201.24	PI
537	1688150.40	1601120.11	PI
538	1688198.85	1601152.00	PI
539	1688172.97	1601074.35	PI

PLAT POINTS			
Point #	Northing	Easting	Desc.
540	1688181.78	1601039.18	PI
541	1688010.42	1601042.30	PI
542	1688011.05	1601077.29	PI
543	1688177.51	1600954.24	PI
544	1688233.58	1600939.43	PI
545	1688152.18	1600802.34	PI
546	1688150.39	1600767.36	PI
547	1687984.86	1600770.38	PI
548	1687985.50	1600805.37	PI
549	1688214.04	1600646.35	PI
550	1688156.49	1600639.12	PI
551	1688142.93	1600370.24	PI
552	1688197.58	1600349.26	PI
553	1688135.17	1600335.38	PI
554	1687965.13	1600338.48	PI
555	1687965.77	1600373.47	PI
556	1688181.73	1600249.52	PI
557	1688179.74	1600191.55	PI
558	1688511.52	1600243.52	PI
559	1688510.46	1600185.53	PI

PLAT POINTS			
Point #	Northing	Easting	Desc.
560	1688694.92	1600164.42	PI
561	1688707.00	1600221.14	PI
562	1688743.90	1600213.29	PI
563	1688780.10	1600146.29	PI
564	1688189.30	1600087.38	PI
565	1688133.03	1600072.38	PI
566	1688127.59	1600107.48	PI
567	1687964.54	1600075.44	PI
568	1687965.18	1600110.44	PI
569	1688144.23	1599921.47	PI
570	1688202.22	1599920.41	PI
571	1688142.82	1599844.16	PI
572	1688142.18	1599809.17	PI
573	1687959.76	1599812.49	PI
574	1687960.39	1599847.48	PI
575	1688141.84	1599790.17	PI
576	1688199.83	1599789.11	PI
577	1688059.38	1599710.66	PI
578	1688058.32	1599652.67	PI
579	1688010.03	1599711.55	PI

SANITARY POINTS			
Point #	Northing	Easting	Desc.
2000	1687795.95	1601262.47	MH 0–0
2001	1688072.65	1601257.43	MH 1–1
2002	1688135.98	1601256.28	MH 1–2
2003	1688237.74	1601095.08	MH 1–3
2004	1688219.02	1600781.62	MH 1–4
2005	1688217.26	1600589.43	MH 1–5
2006	1688215.26	1600370.93	MH 1–6
2007	1688194.90	1600348.80	MH 1–7
2008	1688185.93	1600091.92	MH 1–8
2009	1688188.12	1600069.37	MH 1–9
2010	1688210.44	1599839.43	MH 1–10
2011	1688167.55	1599686.18	MH 1–11
2012	1688173.42	1601491.22	MH 2–1
2013	1688298.14	1601542.00	MH 2–2
2014	1688172.74	1601053.85	MH 3–1
2015	1688053.67	1601056.01	MH 3–2
2016	1688028.14	1600785.09	MH 4–1
2017	1688536.63	1600365.08	MH 5–1
2018	1688833.55	1600359.68	MH 5–2
2019	1688008.39	1600352.19	MH 6–1

SANITARY POINTS			
Point #	Northing	Easting	Desc.
2020	1688007.91	1600095.16	MH 7–1
2021	1688546.13	1600062.86	MH 8–1
2022	1688136.56	1599829.77	MH 9–1
2023	1688003.12	1599832.20	MH 9–2
2024	1688153.06	1600590.02	CO 10–1

1

NEW SHEET PER REVISION

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SANITARY SEWER PLANS FOR
COURTYARDS AT JACOBS FARM
WICHITA, KS

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BUBBLE TABLES

PROJECT NO.	468-2023-002757
DATE	APRIL 2023
SCALE	NTS

DESIGNED	DRAWN	CHECKED
DFL	LAL	SPE

NO.	REVISION	DATE
1	ADDED LINE 10	08/02/23

SHEET NO.
15 OF 23

PLOTTED: Wednesday, August 02, 2023 @ 01:27PM
J:\PROJECTS\2022\2261011\296_PERFECTION_JACOBS 135TH AND CENTRAL\00_220296 CAD\SHTS\05 CIVIL\SAN\220296-05-2500.DWG