

SANITARY SEWER EXTENSION to serve AREA 151 PHASE 2

CITY OF WICHITA, KANSAS

Paul Gunzelman, P.E., City Engineer

Project Number: 468-2023-011816

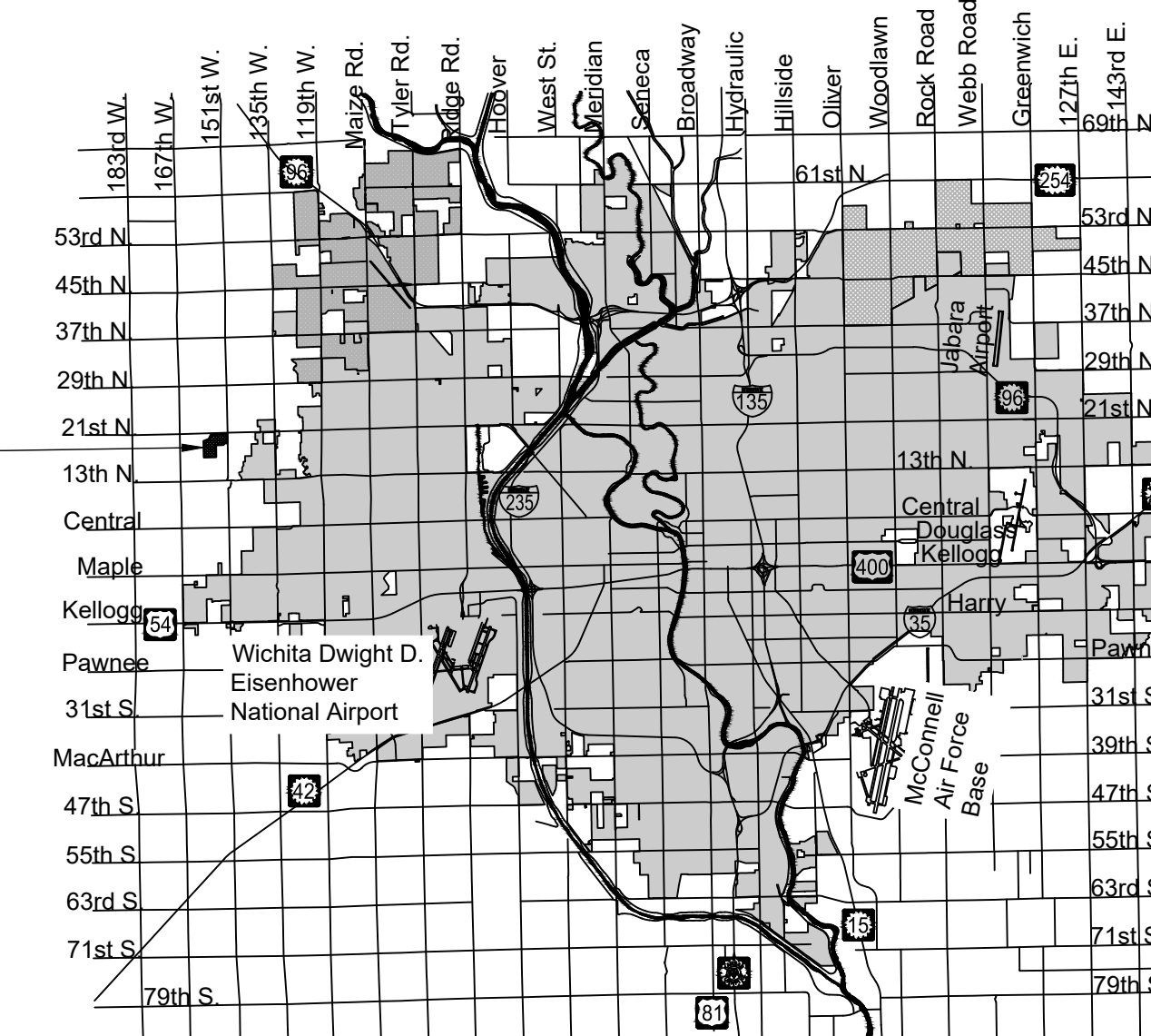
Org Code number: 47276325

Munis Number: E5183

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PROJECT
LOCATION



Vicinity Map



Benchmarks

CONTROL POINTS / BENCH MARKS

CONTROL POINT #201: PLUS CUT ON TOP OF CURB AT THE EAST CURB RETURN AT THE NORTHEAST CORNER OF CODY LN AND SENIOR ST.
ELEVATION = 1372.50 (NAVD88, G18)

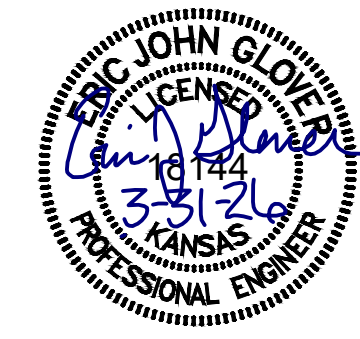
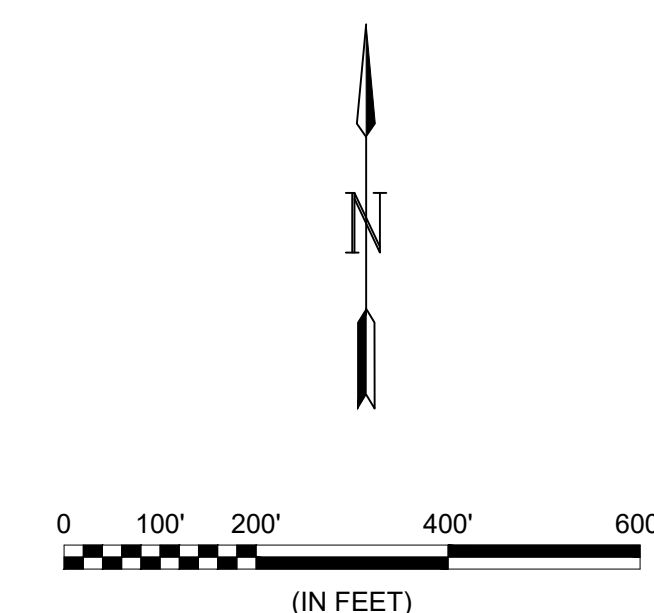
CONTROL POINT #202: PLUS CUT AT NORTHEAST CORNER OF CURB INLET ON NORTH SIDE OF SENIOR ST, MIDWAY BETWEEN LARAE ST AND BOONE ST.
ELEVATION = 1372.26 (NAVD88, G18)

CONTROL POINT #203: PLUS CUT ON TOP OF CURB AT THE WEST CURB RETURN AT THE NORTHWEST CORNER OF REECE ST AND SENIOR ST.
ELEVATION = 1373.21 (NAVD88, G18)

CONTROL POINT #204: PLUS CUT ON TOP OF CURB ON BASE OF HIGH LINE ELECTRIC POLE, 10 FEET EAST AND 43 FEET SOUTH OF THE SOUTHWEST CORNER OF LOT 10, BLOCK 6, AREA 151,
ELEVATION = 1377.75 (NAVD88, G18)

CONTROL POINT #205: PLUS CUT ON TOP OF CURB ON BASE OF HIGH LINE ELECTRIC POLE, 56 FEET WEST AND 50 FEET SOUTH OF THE SOUTHWEST CORNER OF LOT 10, BLOCK 9, AREA 151,
ELEVATION = 1377.69 (NAVD88, G18)

IMPROVEMENT DISTRICT



MARCH 2026

PLANS PREPARED BY



GARVER
1995 Midfield Road
Wichita, KS 67209
(316) 264-8008
www.GarverUSA.com
Project No. 2501905

NOTE: All coordinates listed are modified NAD83 Kansas State Plane Zone South unless otherwise noted. To convert listed coordinates to NAD83 Kansas State Plane Zone South coordinates multiply the northing and easting by the project scale factor of 0.99994194. Elevation datum is NAVD88 Geoid 12B unless otherwise noted.

GENERAL NOTES:

- The Contractor shall comply with all applicable safety regulations. All construction shall be completed following current City Standard Specifications and Special Provisions.
- Contractor will be required to provide notice to utility companies a minimum of seventy-two (72) hours prior to any excavation, as follows:

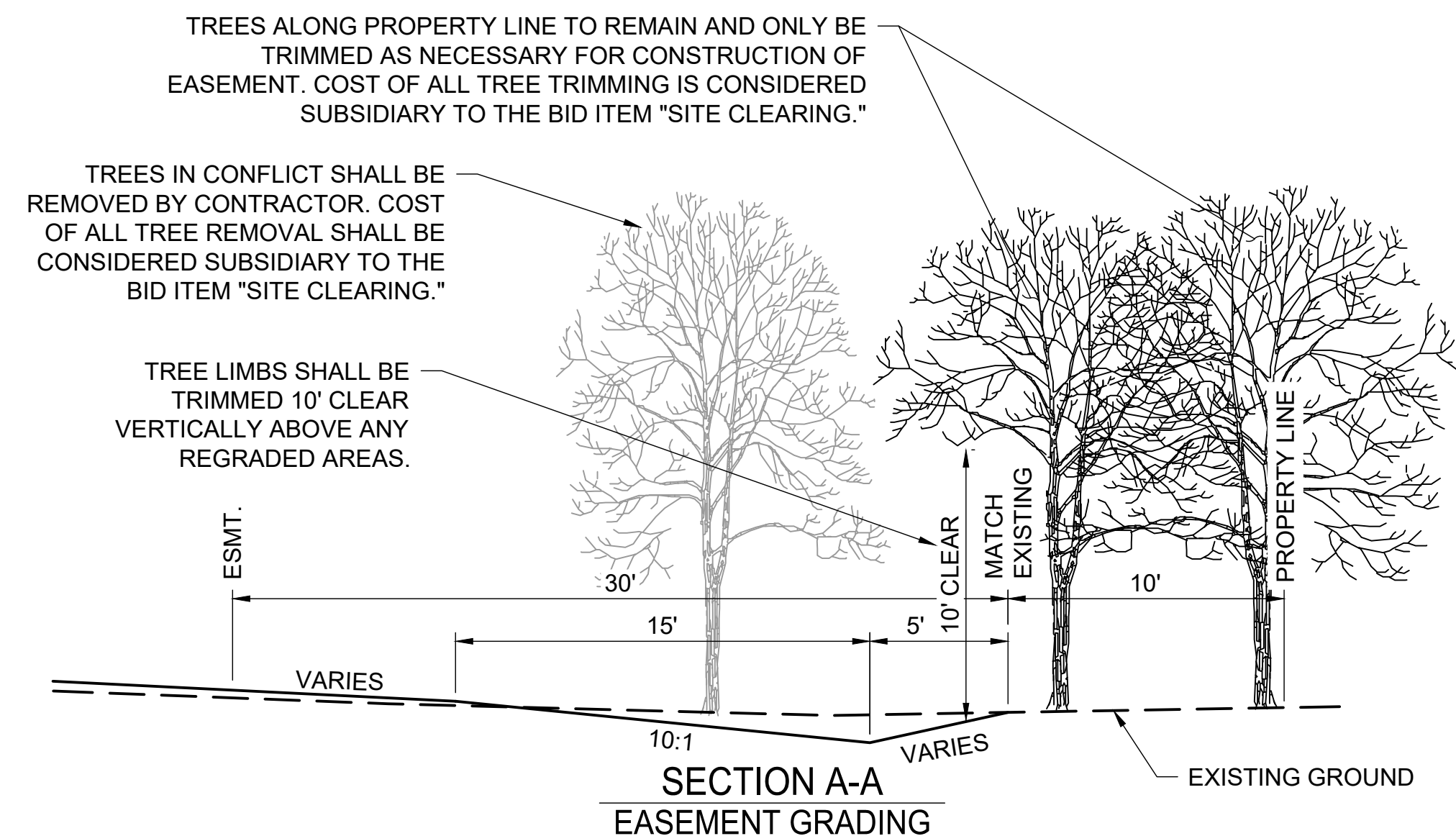
Kansas One-Call	687-2470
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The Contractor must notify the following in case of an emergency:

AT&T	1-800-246-8464
Black Hills Energy	1-800-694-8989
City of Wichita Water & Sewer Dept.	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
Evergy	1-800-544-4857
Kansas Gas Service (ONEOK)	1-888-482-4950
Sedgwick County Electric Cooperative	1-866-542-4732
- 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.
- 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.
- Trees and shrubs in public right-of-way which are in direct conflict with proposed new construction shall be removed by the Contractor with the Engineer's approval. Trees and shrubs which are not in direct conflict with proposed new construction shall be saved and protected from damage.
- The 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.
- 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.
- 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 Contractors responsibly.
- All elevations shown are NAVD 88, G12A.
- All areas disturbed during construction that will not be under proposed pavement shall be restored to match existing conditions.
- The Contractor shall protect from damage and support existing utilities through constructions as approved by the utility owner and the Engineer at the contractors expense.
- Contractor shall limit the extent of trench openings overnight and weekends to less than 50 feet.
- Any sidewalk, drive approach, curb, or street pavement removed to construct project must have a pavement cut permit and be replaced by the City contractor. Permits can be obtained by calling 316-268-4501 or 316-268-4480.
- All stubs and plugged pipes shall be located with green plastic tape in the same manner as risers.
- 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.
- Contractor shall provide positive drainage away from all manhole covers when adjacent grade allows.
- The Contractor shall prevent any construction debris from entering the existing sanitary sewer during construction.
- The Contractor shall be responsible for maintaining continuous flow of sewage through construction. Contractors proposed method for maintaining sewage flow shall be submitted and approved by the Sewer Maintenance Division (316-268-4073) prior to starting and by-passing of sewage flows.
- No shrink or swell factors have been applied to the earthwork quantities shown on this project. All earthwork quantities are based on raw surface volume comparisons.
- Excess dirt generated from installation of underground sanitary sewer due to flowable fill and sand backfill is to remain on site and coordinated with companion SWD Project.
- All disturbed areas on this project shall be seeded with temporary seeding per City of Wichita Specifications.
- Developer:

Ryan Nett (316) 300-1916 ryan@netcoremodeling.com



NOTE: Tree Trimming shall be done using equipment specifically designed for the task. Equipment Buckets and other devices shall not be used to trim trees. Cost of tree trimming and removal shall be subsidiary to the bid item "Site Clearing". Brush, limbs, and other debris generated by tree trimming and tree removal shall be disposed of at an off-site location selected by the Contractor.



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(316) 264-8008

REV.	DATE	DESCRIPTION	BY



CITY OF WICHITA
WICHITA, KANSAS
AREA 151
SANITARY SEWER - PHASE 2

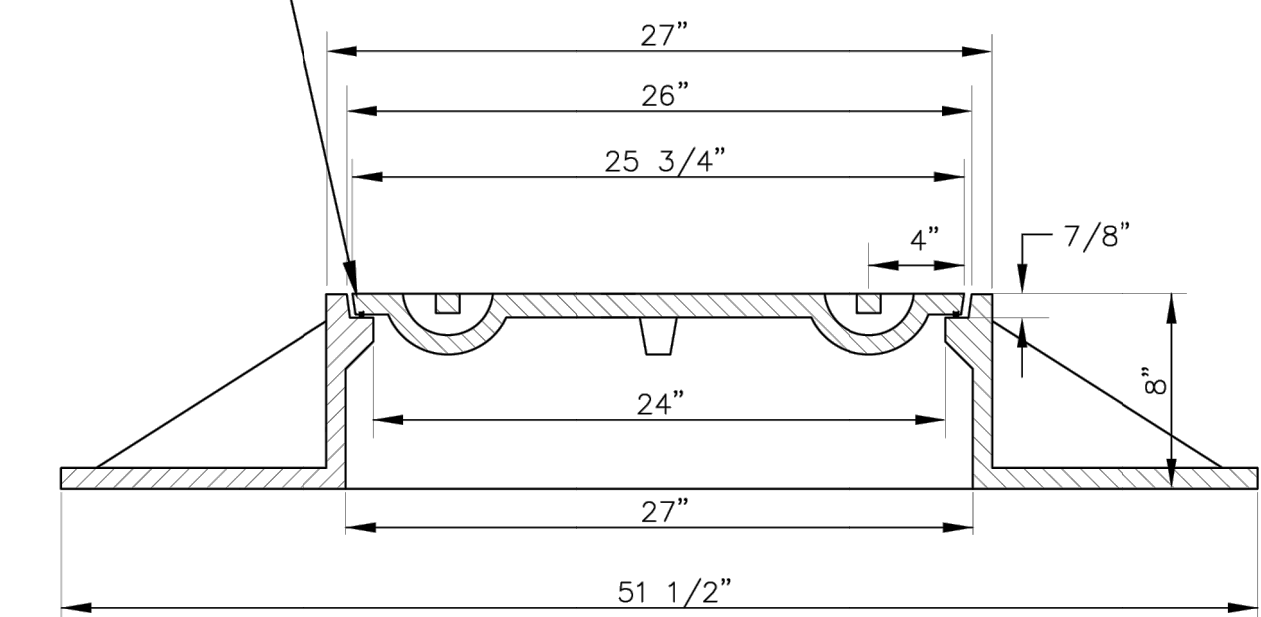
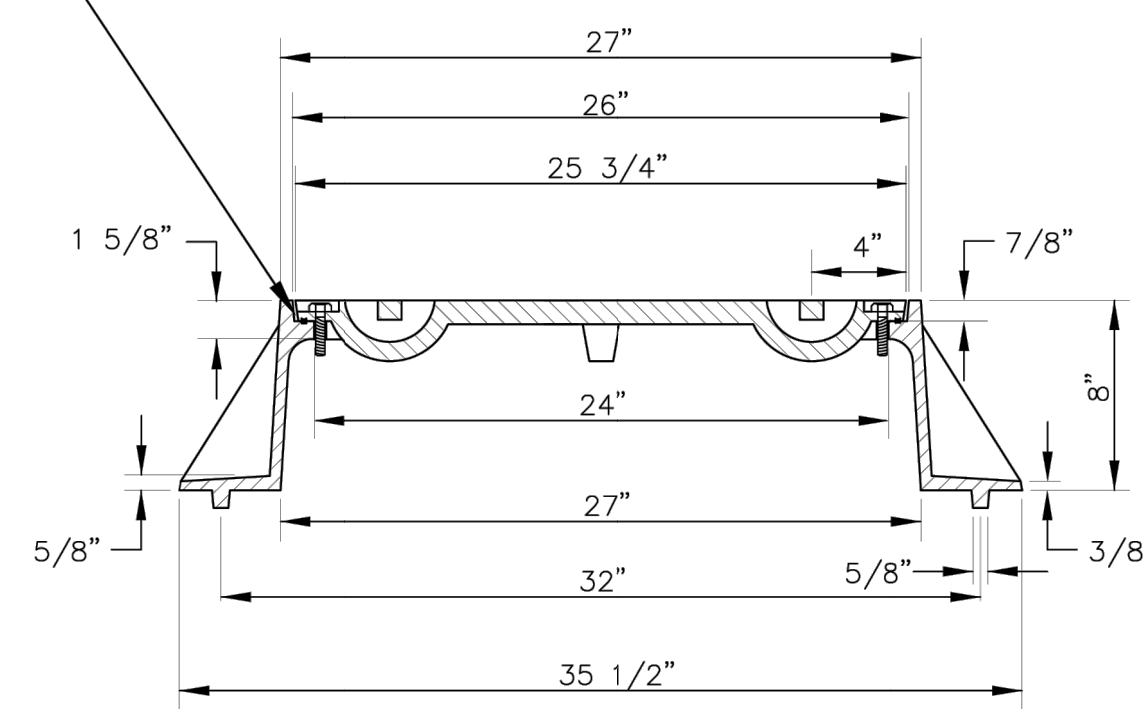
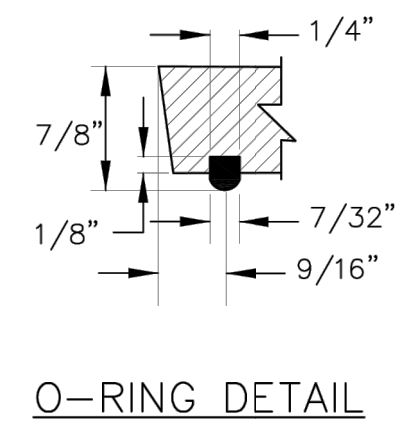
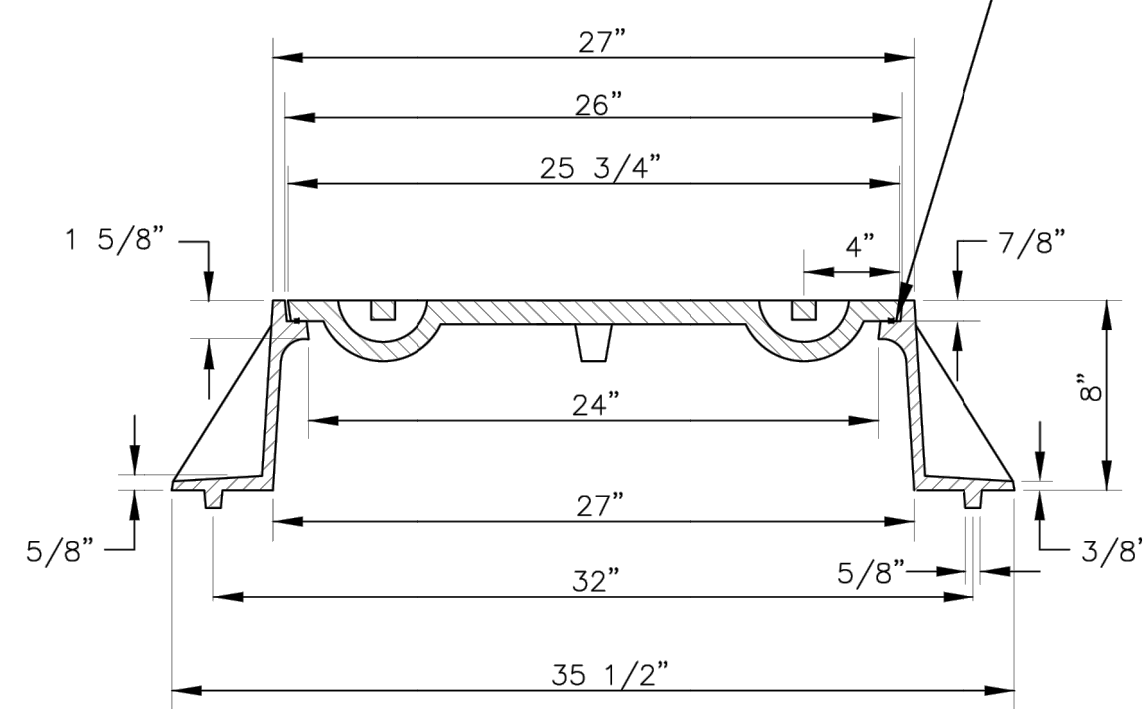
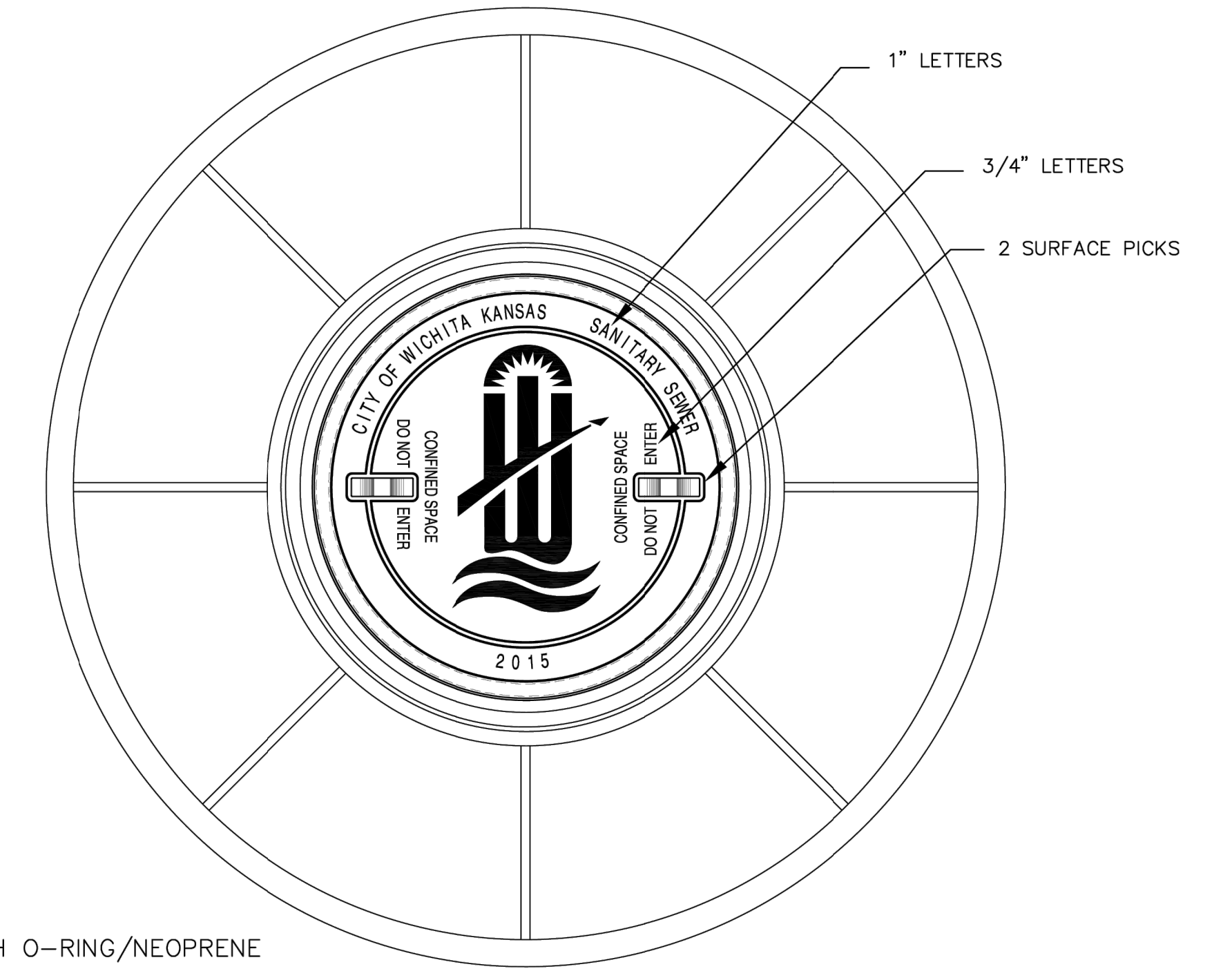
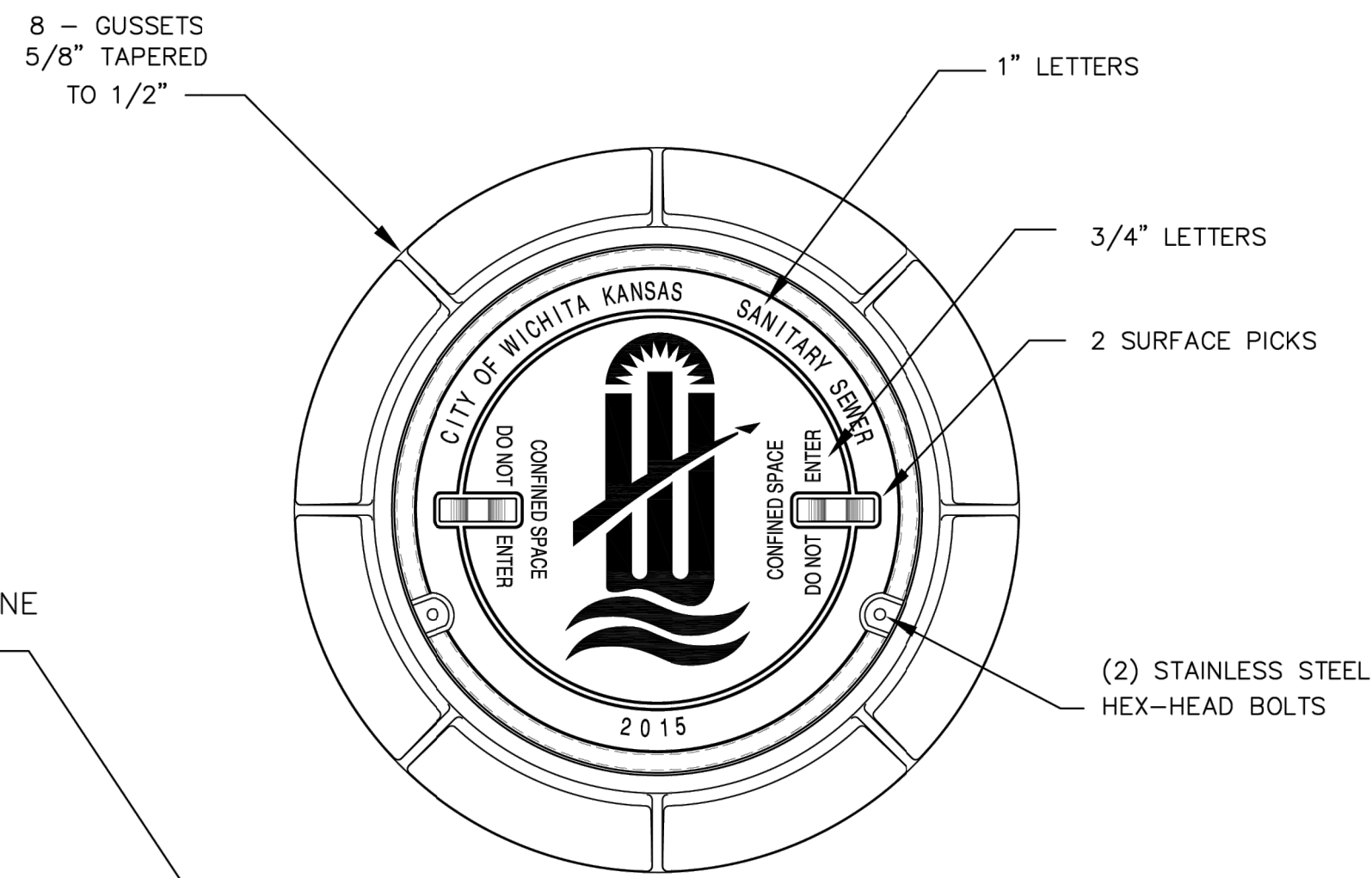
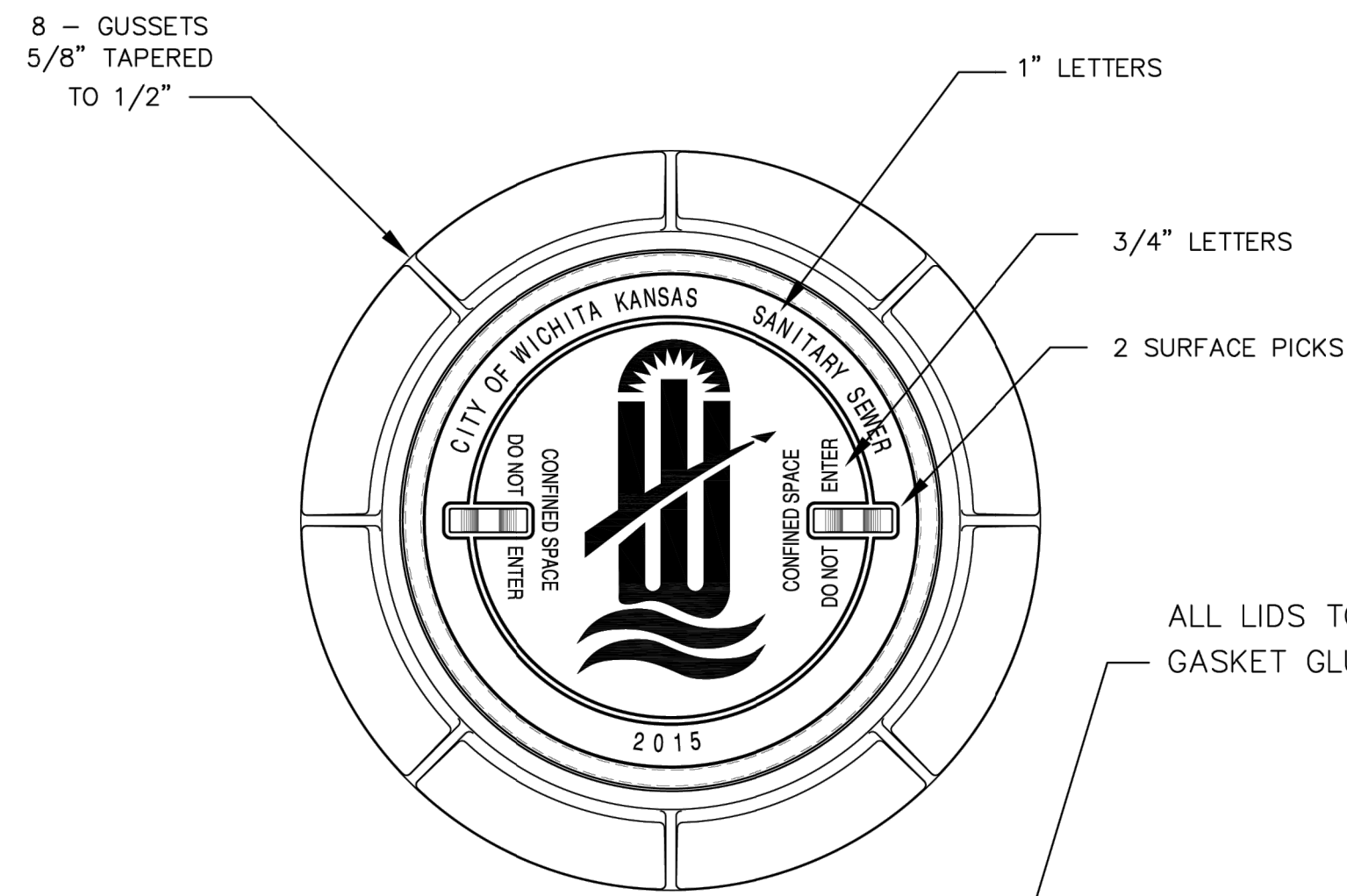
GENERAL NOTES

JOB NO.: 2501905
DATE: MARCH 2026
DESIGNED BY: EJG
DRAWN BY: DRS

BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER

SHEET NUMBER **2** OF **22**



ALL LIDS TO BE FURNISHED WITH O-RING/NEOPRENE GASKET GLUED IN THE COVER BEARING SURFACE.

ALL LIDS TO BE FURNISHED WITH O-RING/NEOPRENE GASKET GLUED IN THE COVER BEARING SURFACE.

STANDARD MANHOLE FRAME & COVER

DEETER #1261 OR EJIW #1936-Z1

NOTE:
1. FURNISHED WITH MACHINED HORIZONTAL BEARING SURFACE.

BOLT DOWN MANHOLE FRAME & COVER

DEETER #1261 OR EJIW #1936-Z1

NOTE:
1. FURNISHED WITH MACHINED HORIZONTAL BEARING SURFACE.

WIDE FLANGED FRAME & COVER

DEETER #1261A

NOTE:
1. FURNISHED WITH MACHINED HORIZONTAL BEARING SURFACE.

GENERAL NOTES

1. MANHOLE CASTINGS SHALL BE MANUFACTURED USING GOOD QUALITY GRAY IRON CONFORMING TO CLASS 30 OF A.S.T.M. DESIGNATION A-48. DIMENSIONS SHOWN ON THE DETAILED DRAWINGS SHALL BE CONSIDERED AS MINIMUM REQUIREMENTS AND ANY DEVIATIONS FROM THE DIMENSIONS SHOWN MUST BE SPECIFICALLY APPROVED. THE FINISHED CASTINGS SHALL BE OF UNIFORM QUALITY, FREE FROM BLOWHOLES, POROSITY, HARD SPOTS, SHRINKAGE DISTORTIONS OR OTHER DEFECTS.
2. MANHOLE CASTINGS SHALL BE MANUFACTURED SUCH THAT A COVER MANUFACTURED BY ANY ONE FOUNDRY WILL FIT INTERCHANGEABLY INTO A FRAME MANUFACTURED BY ANOTHER FOUNDRY AND STILL MEET ALLOWABLE CLEARANCES AND NON-ROCKING REQUIREMENTS. THIS WILL REQUIRE MANUFACTURING OF THE MATCHING FACES ON THE COVER AND THE FRAME TO CLOSE TOLERANCES.
3. THE OUTSIDE CIRCUMFERENCE OF THE VERTICAL FACE OF THE COVER AND THE INSIDE CIRCUMFERENCE OF THE VERTICAL FACE IN THE FRAME RECESS SHALL BE MANUFACTURED TO TOLERANCES SUCH THAT THE CLEARANCE BETWEEN THE COVER AND FRAME WILL NOT EXCEED 1/8" AT ANY POINT AROUND THE CIRCUMFERENCE OF THE COVER. THE SEATING SURFACES BETWEEN THE COVER AND FRAME SHALL BE MACHINED SUCH THAT THESE SEATING SURFACES SHALL MAKE FULL CONTACT FOR THEIR FULL CIRCUMFERENCE TO PRECLUDE THE COVER FROM ROCKING IN THE FRAME.
4. THE MANHOLE FRAME AND COVER SHALL BE MARKED WITH LETTERING INDICATING THE NAME OF THE MANUFACTURER AND THE YEAR WHEN THE COVER OR FRAME WAS CAST. THE COVER SHALL BE FURTHER IDENTIFIED WITH REGARDS TO OWNERSHIP USING LETTERS AT LEAST 1" IN HEIGHT. THIS IDENTIFICATION SHALL BE "CITY OF WICHITA SANITARY SEWER". THE TOP SURFACE OF THE COVER SHALL BE MANUFACTURED IN WITH CITY OF WICHITA DESIGN AS INDICATED ON THE DRAWINGS. SMOOTH BLOCKOUTS SHALL BE UTILIZED TO HIGHLIGHT THE LETTERING ON THE COVER SURFACE. THE TOTAL AREA OF SMOOTH SURFACE BLOCKOUT SHALL NOT EXCEED THE AREA AS INDICATED ON THE DRAWING. POSITIONING OF SMOOTH BLOCKOUTS AND LETTERING MAY VARY FROM THAT SHOWN ON THE DETAILED DRAWING.

REVISED: MARCH 2016



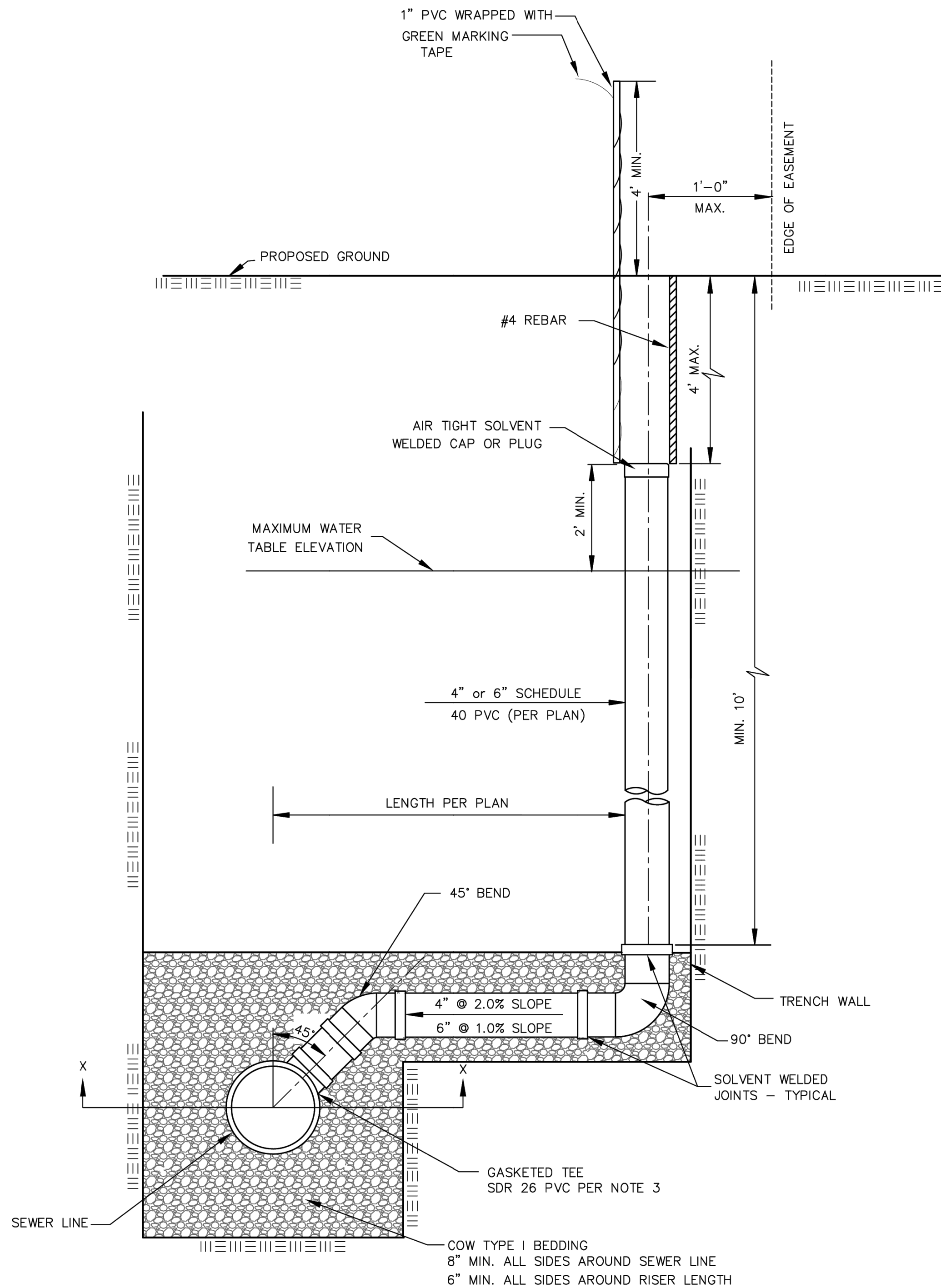
MANHOLE FRAME AND COVER (SANITARY SEWER)		
CITY ENGINEER GARY JANZEN, P.E.		
PROJECT NUMBER	OCA NUMBER	DATE
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		SHEET 4
		22

GENERAL NOTES

- APPLICATION.** Risers shall be installed to serve all lots or tracts where the sanitary sewer main is below the water table, where the sanitary sewer main depth is greater than 12' below the proposed ground elevation, where the main is adjacent to a pond or wherever service lines would have to cross under storm sewer pipe. Installation of risers because of field conditions shall be as approved by the City Engineer. The location of the risers to serve developed property shall be approved by the property owner and the Construction Engineer.
- MANHOLE STUB RISERS.** Manhole stub risers be installed in manholes where locations of manholes will provide satisfactory service connection as determined by the Construction Engineer. The vertical distance between the flowline of the manhole stub and the flowline of the sanitary sewer line out of the manhole shall not exceed 2'. Risers shall be utilized at manholes as indicated in Note 1. Manhole stub riser shall be set such that the top of the stub is not lower than the top of the sanitary sewer line.
- SIZING.** Risers shall be sized according to the plans and riser table where risers are indicated by the plans. Where risers are required because of field conditions, the risers shall be 6" diameter for commercial or industrial properties and 4" or 6" diameter for residential properties, based on lot size and sanitary sewer main depth. Sizing of risers shall be approved by the construction Engineer prior to installation.
- RISER MATERIAL.** Risers shall be constructed of Schedule 40 PVC Pipe, meeting the requirement of the latest revision of A.S.T.M.. All pipe joints shall be solvent welded. Full body tee shall be SDR 26 PVC pipe.
- ROCK ENCASEMENT.** Riser connection to clay pipe sanitary sewers shall be rock encased both ways from the riser centerline. The rock encasement shall extend three feet from the riser centerline or stop at the first sanitary sewer pipe joint within three feet of the riser centerline. Riser connections to PVC Sanitary sewer mains shall be rock encased one foot each way from the riser centerline. Crushed rock shall conform to ASTM C-33, Gradation No. 67, and shall meet all requirements for Portland Cement Concrete pavement Coarse Aggregate, Section 406.2, City of Wichita Standard Specifications.
- BEDDING.** Beyond the limits of the rock encasement, bedding around the sanitary sewer riser shall be compacted Pipe Bedding Type 1 or 2. The bedding shall be placed and compacted from the depth of the sanitary sewer main to the top of the sanitary sewer riser pipe. Compacted Pipe Bedding Type 1 or 2 shall be required for all risers whether constructed in vertical wall or sloped wall trenches. Bedding material and construction practices shall be approved by the Construction Engineer prior to installation.
- SUPPORT OF RISERS.** Sanitary sewer riser pipe shall be supported during trench backfill. The riser pipe shall be held in a vertical position at all times until trench backfill and compaction has been completed. Contractor's methods for supporting and back filling the riser pie shall be approved by the Construction Engineer.
- PLUGGING.** The ends of the riser pipes and manhole stubs shall be plugged using an airtight solvent welded cap or plug. Cap or plug fittings shall be approved by the Construction Engineer prior to installation. Caps or plugs which do not provide an airtight seal will not be accepted.
- TOP OF THE RISER PIPE.** The top elevation of the sanitary sewer riser pipe shall be built per plan elevations, unless otherwise directed by the Construction Engineer. where riser elevations are not shown on the plans, the top of the risers shall be set at an elevation four feet below the proposed ground surface. If ground water is encountered, the top of the riser pipe shall be set at an elevation 2' (min.) above the maximum water table elevation, regardless of the riser elevation shown on the plans.
- MARKING.** Locations of the ends of the sanitary sewer riser pipe shall be marked by installing 1" PVC from the top of the riser to a minimum of 4' above the top of finished grade. No. 4 rebar shall be placed centered over the riser from the cap to the existing ground. The 1" PVC pipe shall be wrapped with green colored plastic tape, for the full length above ground surface. The green tape shall be 4 mil Polyethylene film with a minimum width of three inches, specifically manufactured for the purpose of identification of underground sewers.
- LOCATION MEASURES.** The project inspector shall record and document the location of all risers constructed as measured from the nearest manhole, indicate the direction from the manhole, the direction and distance from the main, riser size, and elevation of the top of the riser in tabular format.
- RISER LOCATION.** the riser shall be located per plan if shown. If not shown on the plan, the riser shall be located at the center of the lot, within one foot of the property side of the easement for the lot being served. All riser locations shall be approved by the Construction Engineer prior to installation.
- PAYMENT.** "Riser Assembly, Vertical " shall be paid for at the contract unit price per each, which shall be full compensation for all pipe, fittings, marking tape, length of backfill, labor, site restoration, and any other items necessary to complete the work.

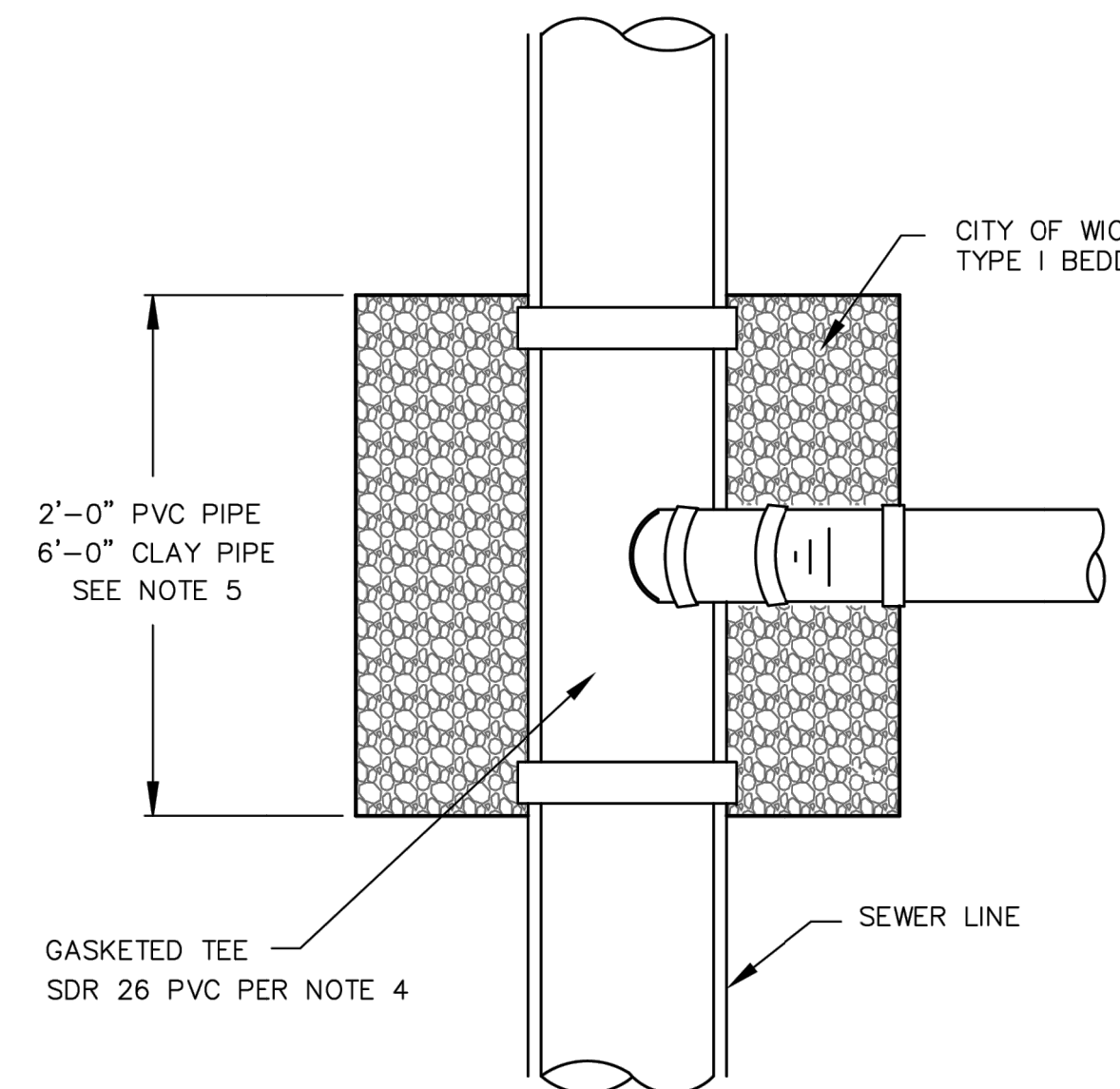
"Riser Assembly, Manhole Stub" shall be paid for at the contract unit price per each, which shall be full compensation for all labor material and incidentals necessary to complete the work including all pipe, fittings, rock encasement, and all other items as required and listed for "Riser Assembly, Vertical "

NOTE: RISER PIPE REQUIREMENTS AT MANHOLE CONNECTION SHALL BE SIMILAR TO THOSE SHOWN ABOVE.

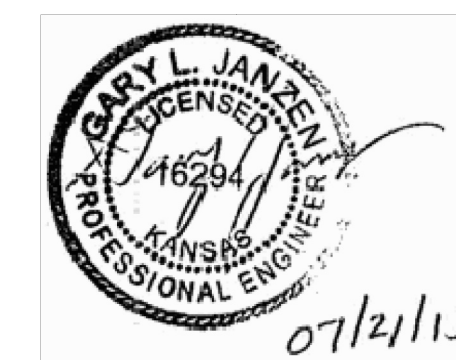


SANITARY SEWER RISER TABLE							FOR INFORMATION ONLY	
NUMBER	TYPE	LOCATION			STATION	DIRECTION	APPROXIMATE LENGTH	
		LOT NO.	BLOCK NO.	LINE NO.			VERTICAL (FT)	HORIZONTAL (FT)
1	4" MANHOLE CONNECTION							
2	6" MANHOLE CONNECTION							
3	4" TEE							
4	6" TEE							

NOTE: TABLE FOR REFERENCE ONLY AND SHOULD BE ON EACH APPLICABLE PLAN SHEET.



NOTE: NON SHEAR COUPLING TO BE USED WHEN HOOKING TO CLAY PIPE.

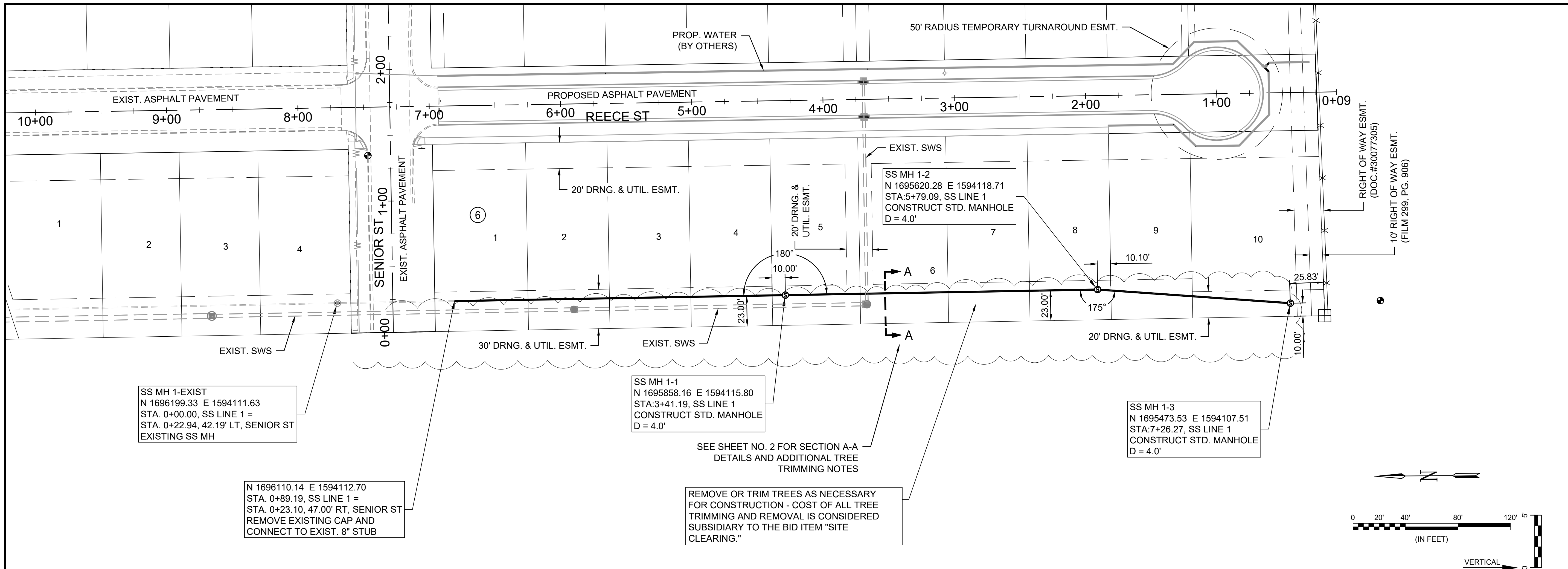


<p>CITY OF WICHITA PUBLIC WORKS & UTILITIES ENGINEERING DIVISION</p>	<p>REVISD: JULY 2015</p> <p>VERTICAL RISER ASSEMBLY SEWER DETAIL</p> <p>CITY ENGINEER GARY JANZEN, P.E.</p>		
	PROJECT NUMBER	OCA NUMBER	DATE
	<p>CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501</p>		<p>SHEET 5</p>



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 (316) 264-8008



SS MH 1-EXIST
 N 1696199.33 E 1594111.63
 STA. 0+00.00, SS LINE 1 =
 STA. 0+22.94, 42.19' LT, SENIOR ST
 EXISTING SS MH

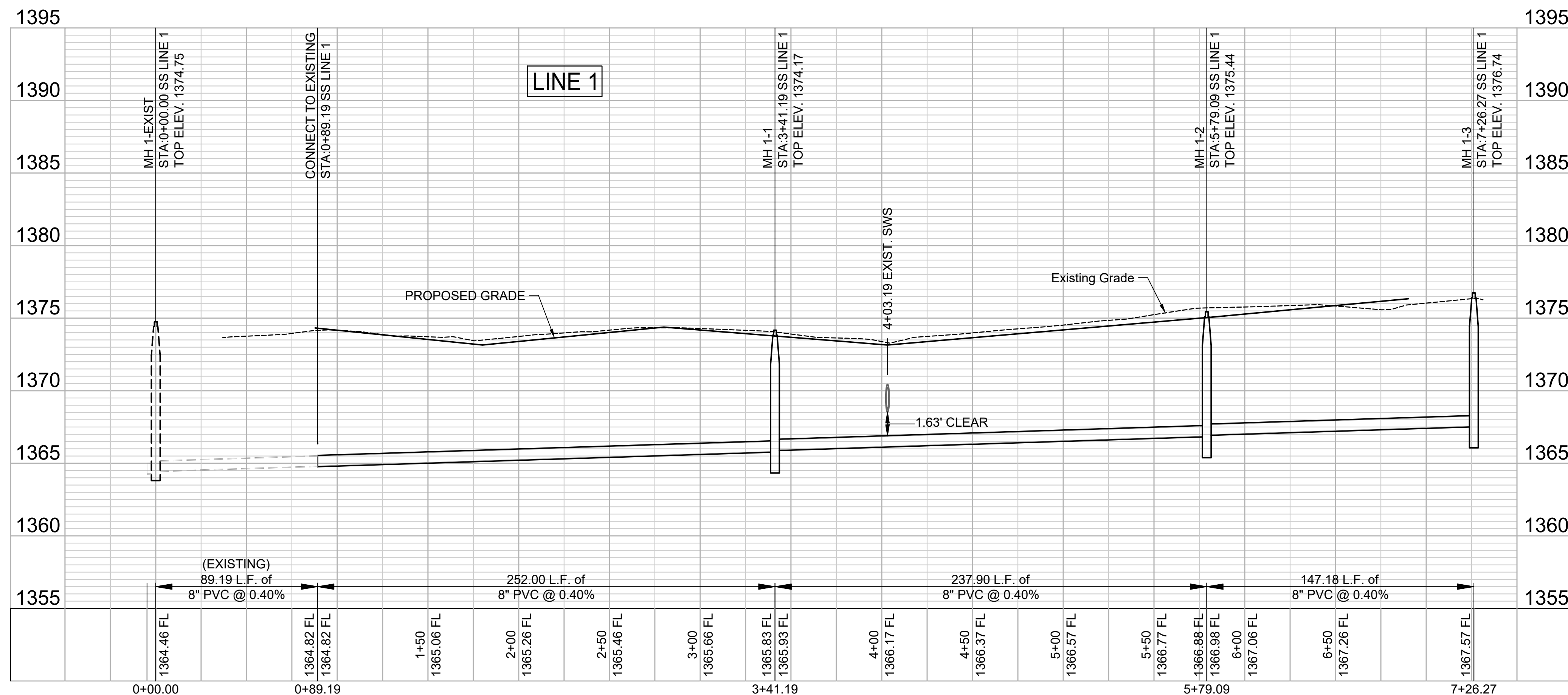
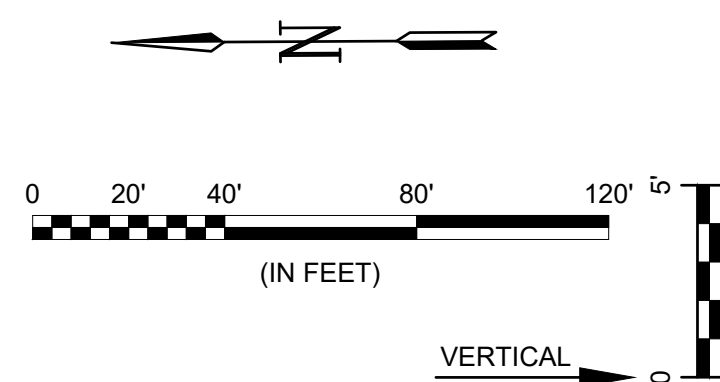
N 1696110.14 E 1594112.70
 STA. 0+89.19, SS LINE 1 =
 STA. 0+23.10, 47.00' RT, SENIOR ST
 REMOVE EXISTING CAP AND
 CONNECT TO EXIST. 8" STUB

SS MH 1-1
 N 1695858.16 E 1594115.80
 STA. 3+41.19, SS LINE 1
 CONSTRUCT STD. MANHOLE
 D = 4.0'

SEE SHEET NO. 2 FOR SECTION A-A
 DETAILS AND ADDITIONAL TREE
 TRIMMING NOTES

REMOVE OR TRIM TREES AS NECESSARY
 FOR CONSTRUCTION - COST OF ALL TREE
 TRIMMING AND REMOVAL IS CONSIDERED
 SUBSIDIARY TO THE BID ITEM "SITE
 CLEARING."

SS MH 1-3
 N 1695473.53 E 1594107.51
 STA. 7+26.27, SS LINE 1
 CONSTRUCT STD. MANHOLE
 D = 4.0'



File: K:\2025\141-2501905 - Area 151 Ph 2\Drawings\SS SHEETS\SS LINE 1.dwg Last Save: 2/25/2026 2:53 PM Last saved by: DRStandrich
 Last plotted by: Standrich, Darryl R. Plot Style: --- Plot Style: 1:2.5849 Plot Date: 3/3/2026 2:12 PM Plotter used: None

REV.	DATE	DESCRIPTION	BY

CITY OF WICHITA
 WICHITA, KANSAS

AREA 151
 SANITARY SEWER - PHASE 2

SS LINE 1

JOB NO.: 2501905
 DATE: MARCH 2026
 DESIGNED BY: EJJ
 DRAWN BY: DRS

BAR IS ONE INCH ON ORIGINAL DRAWING
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DRAWING NUMBER

SHEET NUMBER **6** OF **22**



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 Wichita, KS 67209
 (316) 264-8008

BY	DESCRIPTION	DATE	REV.



CITY OF WICHITA
 WICHITA, KANSAS

AREA 151
 SANITARY SEWER - PHASE 2

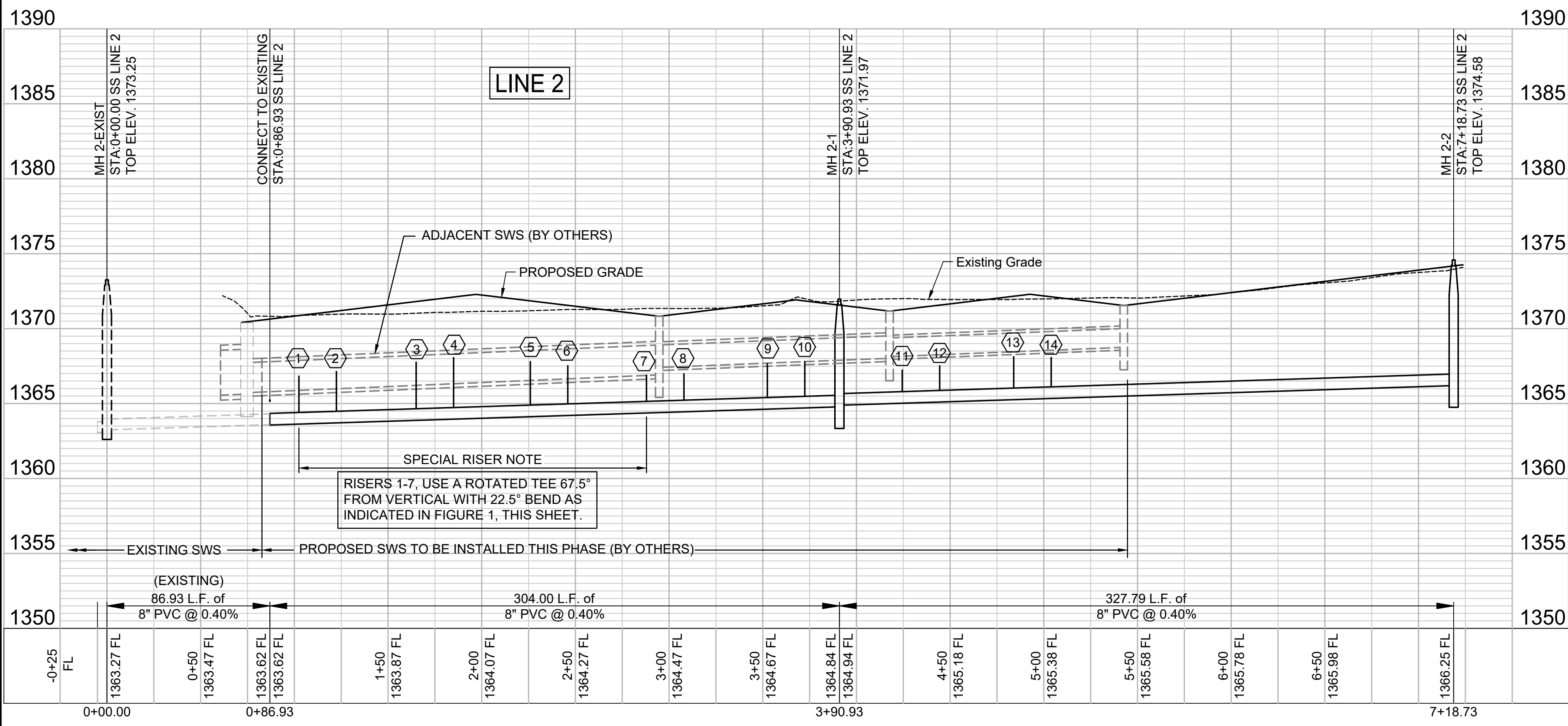
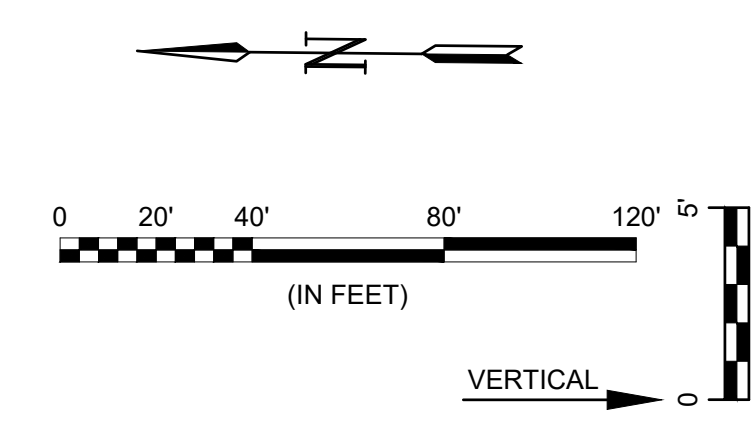
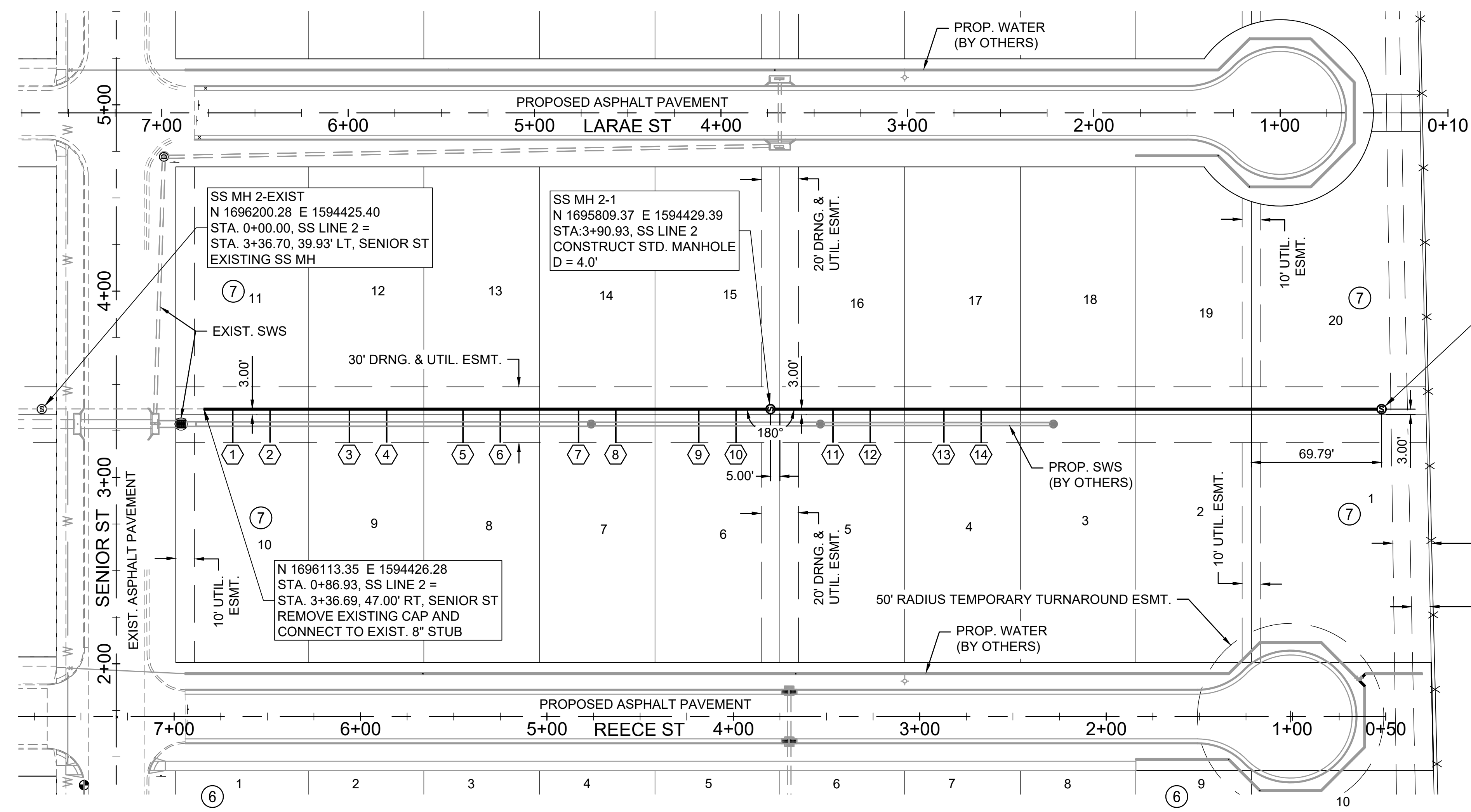
SS LINE 2

JOB NO.: 2501905
 DATE: MARCH 2026
 DESIGNED BY: EJG
 DRAWN BY: DRS

BAR IS ONE INCH ON ORIGINAL DRAWING
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DRAWING NUMBER

SHEET NUMBER **7** OF **22**



NUMBER	TYPE	SERVING			STATION/DIRECTION	FOR INFORMATION ONLY	
		LOT NO.	BLOCK NO.	LINE NO.		APPROX. LENGTH 4" PIPE	
					VERTICAL	HORIZONTAL	
1	8"X4" Tee	10	7	2	1+02 Right	2.5	18.0
2	8"X4" Tee	10	7	2	1+22 Right	2.7	18.0
3	8"X4" Tee	9	7	2	1+65 Right	3.1	18.0
4	8"X4" Tee	9	7	2	1+85 Right	3.4	18.0
5	8"X4" Tee	8	7	2	2+26 Right	2.9	18.0
6	8"X4" Tee	8	7	2	2+46 Right	2.6	18.0
7	8"X4" Tee	7	7	2	2+88 Right	1.8	18.0
8	8"X4" Tee	7	7	2	3+08 Right	1.8	18.0
9	8"X4" Tee	6	7	2	3+52 Right	2.3	18.0
10	8"X4" Tee	6	7	2	3+72 Right	2.4	18.0
11	8"X4" Tee	5	7	2	4+24 Right	1.5	18.0
12	8"X4" Tee	5	7	2	4+44 Right	1.7	18.0
13	8"X4" Tee	4	7	2	4+84 Right	2.1	18.0
14	8"X4" Tee	4	7	2	5+04 Right	2.0	18.0

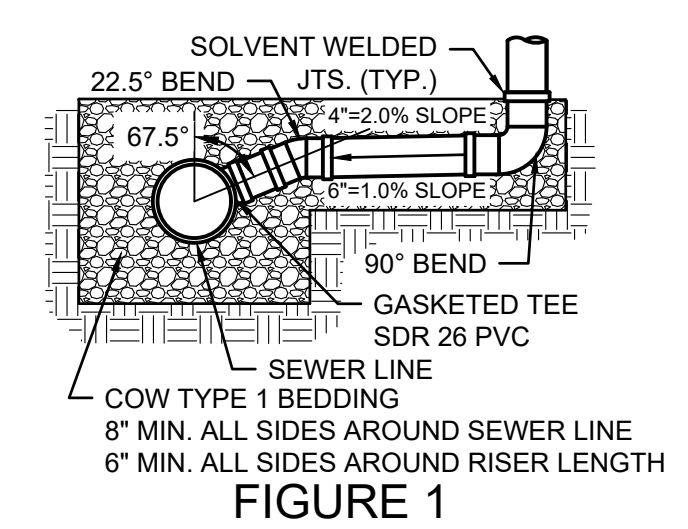


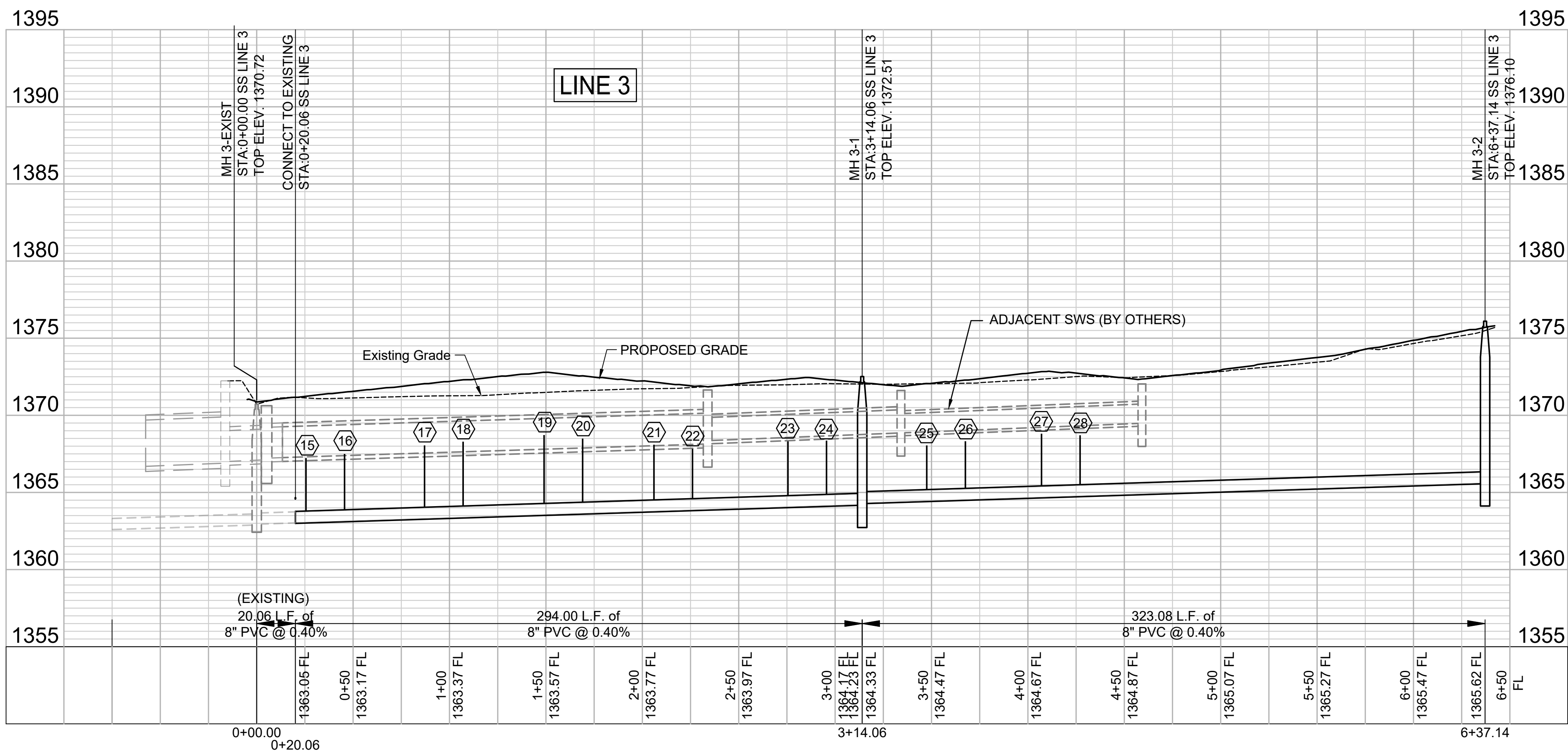
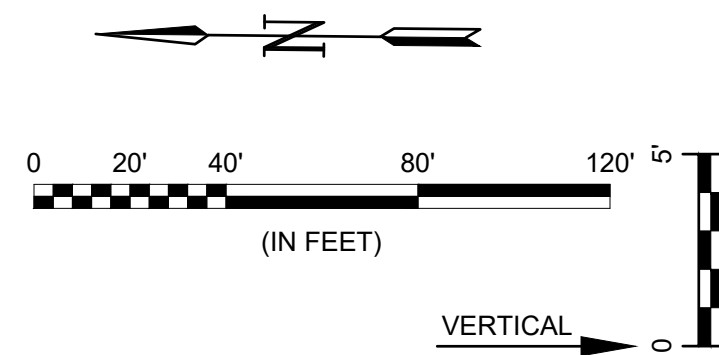
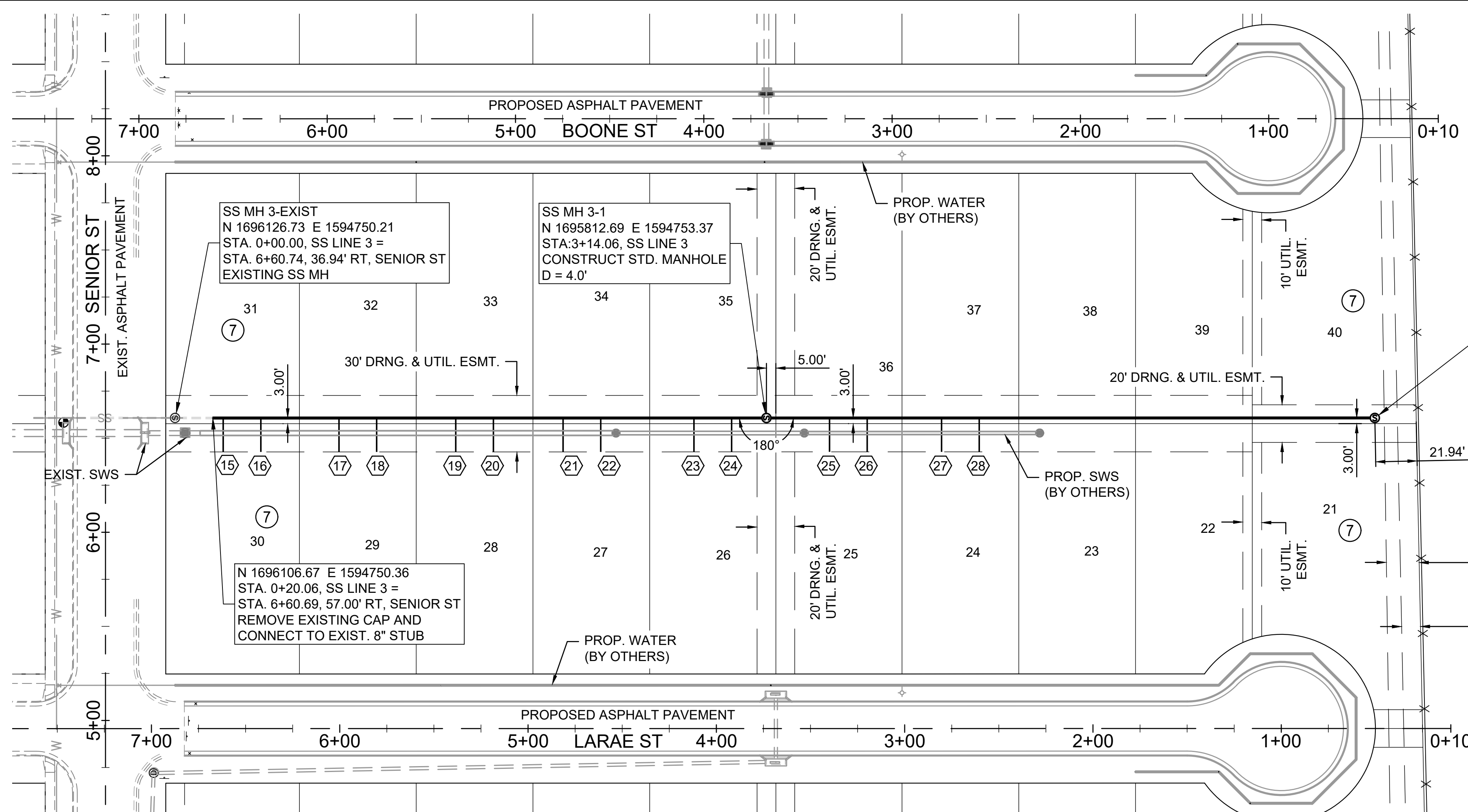
FIGURE 1

File: K:\2025\141-2501905 - Area 151 Ph 2\Drawings\SS SHEETS\SS LINE 2.dwg Last Save: 2/24/2026 7:29 AM Last saved by: DRStandrich
 Last plotted by: Standrich, Darryl R. Plot Style: Plot Style: 1:2.5849 Plot Date: 3/3/2026 2:12 PM Plotter used: None



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NUMBER	TYPE	SERVING			STATION/DIRECTION	FOR INFORMATION ONLY	
		LOT NO.	BLOCK NO.	LINE NO.		APPROX. LENGTH 4" PIPE	
						VERTICAL	HORIZONTAL
15	8"X4" Tee	30	7	3	0+26 Right	3.4	18.0
16	8"X4" Tee	30	7	3	0+46 Right	3.6	18.0
17	8"X4" Tee	29	7	3	0+87 Right	4.0	18.0
18	8"X4" Tee	29	7	3	1+07 Right	4.2	18.0
19	8"X4" Tee	28	7	3	1+49 Right	4.4	18.0
20	8"X4" Tee	28	7	3	1+69 Right	4.1	18.0
21	8"X4" Tee	27	7	3	2+06 Right	3.6	18.0
22	8"X4" Tee	27	7	3	2+26 Right	3.2	18.0
23	8"X4" Tee	26	7	3	2+76 Right	3.5	18.0
24	8"X4" Tee	26	7	3	2+96 Right	3.5	18.0
25	8"X4" Tee	25	7	3	3+48 Right	2.9	18.0
26	8"X4" Tee	25	7	3	3+68 Right	3.1	18.0
27	8"X4" Tee	24	7	3	4+07 Right	3.4	18.0
28	8"X4" Tee	24	7	3	4+27 Right	3.2	18.0

File: K:\2025\141-2501905 - Area 151 Ph 2\Drawings\SS SHEETS\SS LINE 3.dwg Last Save: 2/23/2026 4:47 PM Last saved by: DRStandrich
 Last plotted by: Standrich, Darryl R. Plot Style: --- Plot Style: 1:2.5849 Plot Date: 3/3/2026 2:12 PM Plotter used: None

BY	DESCRIPTION	DATE

CITY OF WICHITA
 WICHITA, KANSAS

AREA 151
 SANITARY SEWER - PHASE 2

SS LINE 3

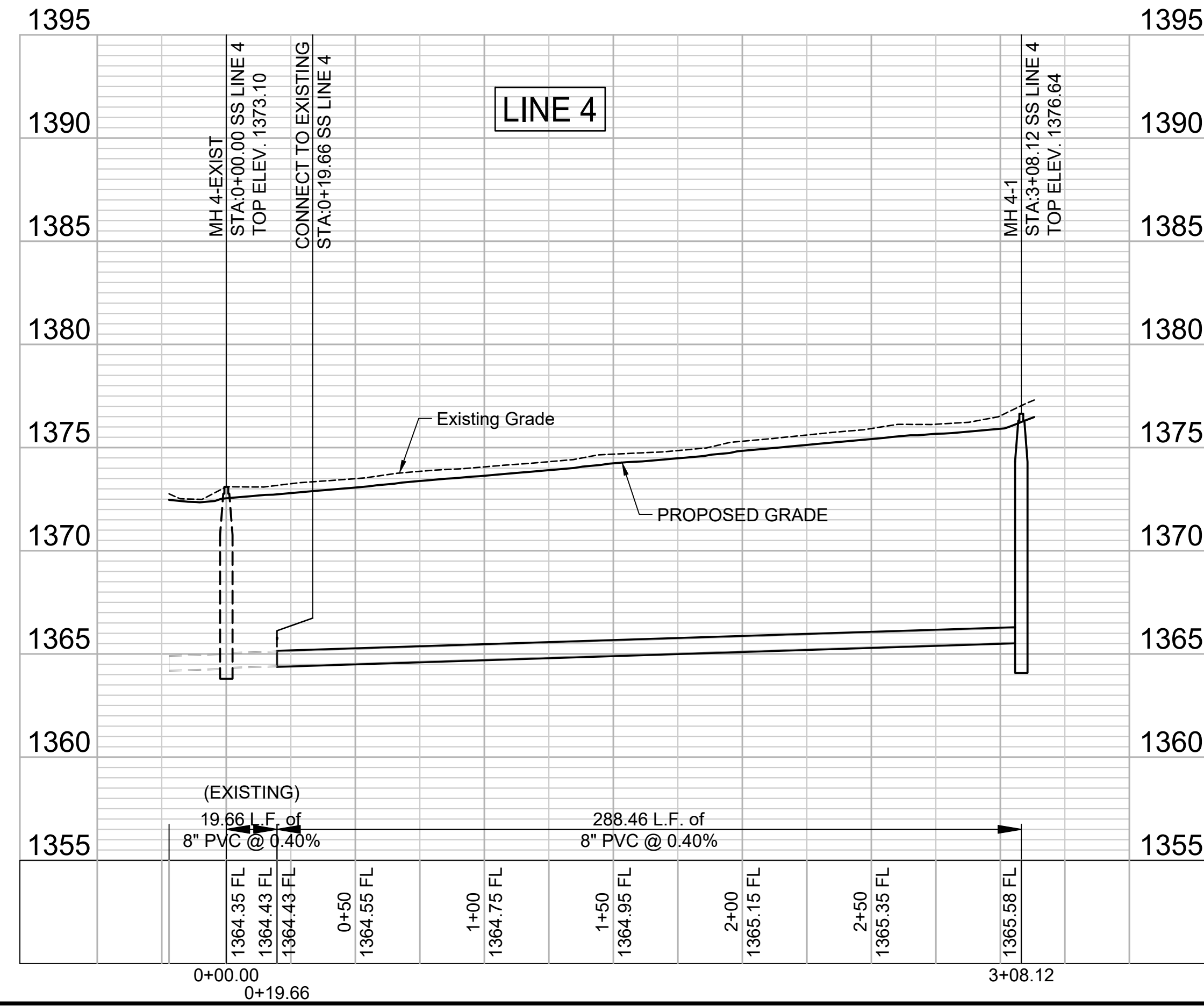
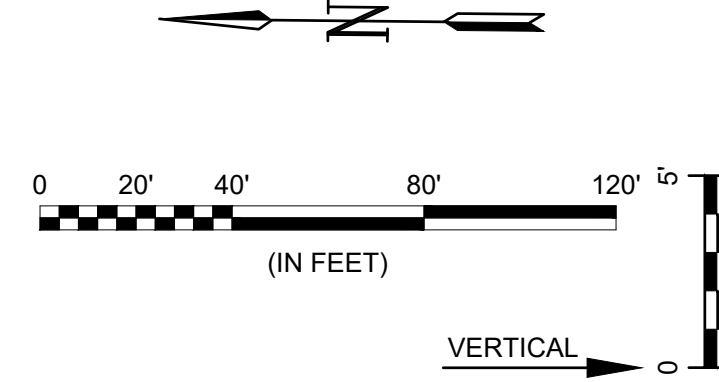
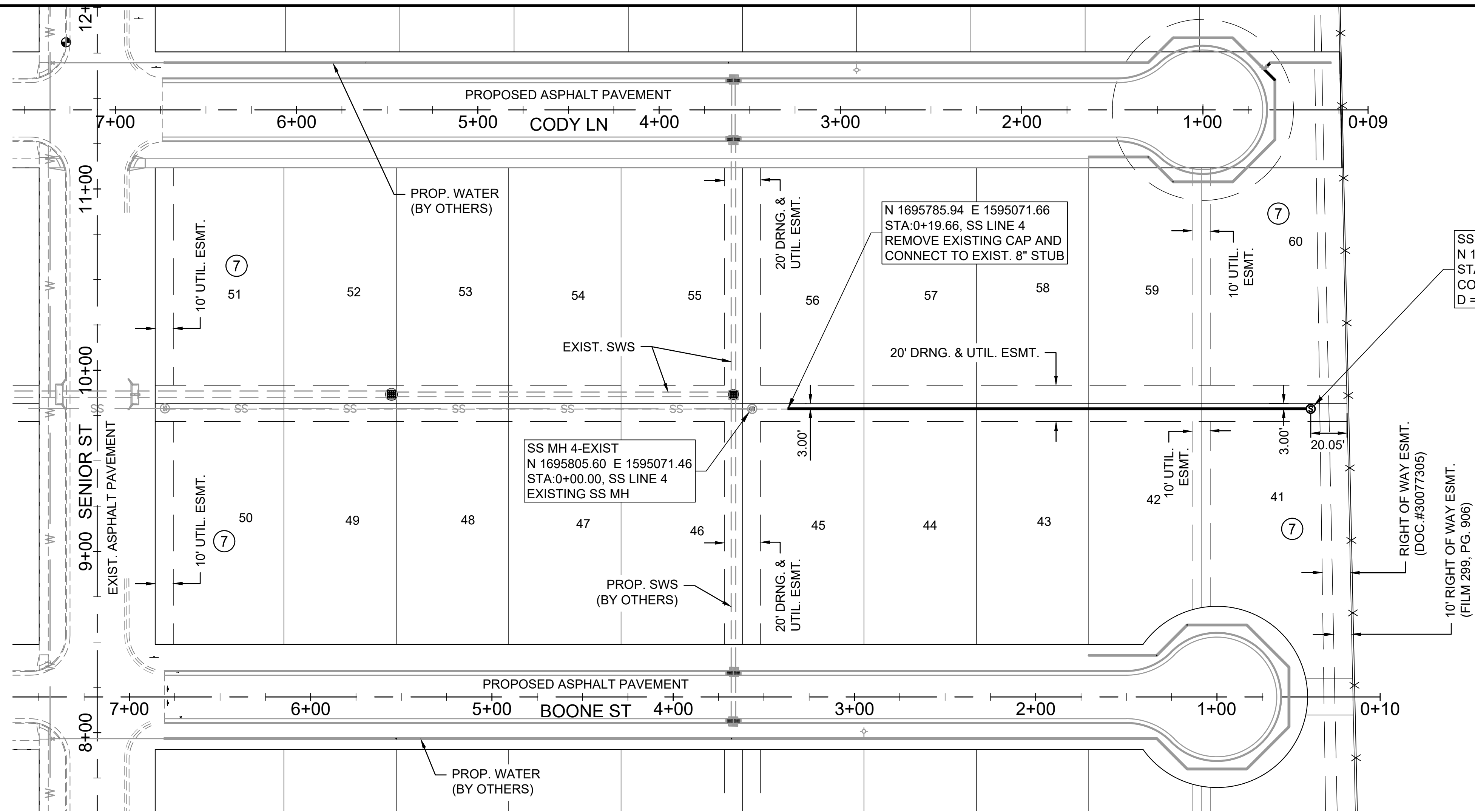
JOB NO.: 2501905
 DATE: MARCH 2026
 DESIGNED BY: EJJ
 DRAWN BY: DRS

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SHEET NUMBER **8** OF **22**

File: K:\2025\141-2501905 - Area 151 Ph 2\Drawings\SS SHEETS\SS LINE 4.dwg Last Save: 3/31/2026 8:16 AM Last saved by: DRStandrich
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REV.	DATE	DESCRIPTION	BY



CITY OF WICHITA
 WICHITA, KANSAS
 AREA 151
 SANITARY SEWER - PHASE 2

SS LINE 4

JOB NO.: 2501905
 DATE: MARCH 2026
 DESIGNED BY: EJG
 DRAWN BY: DRS

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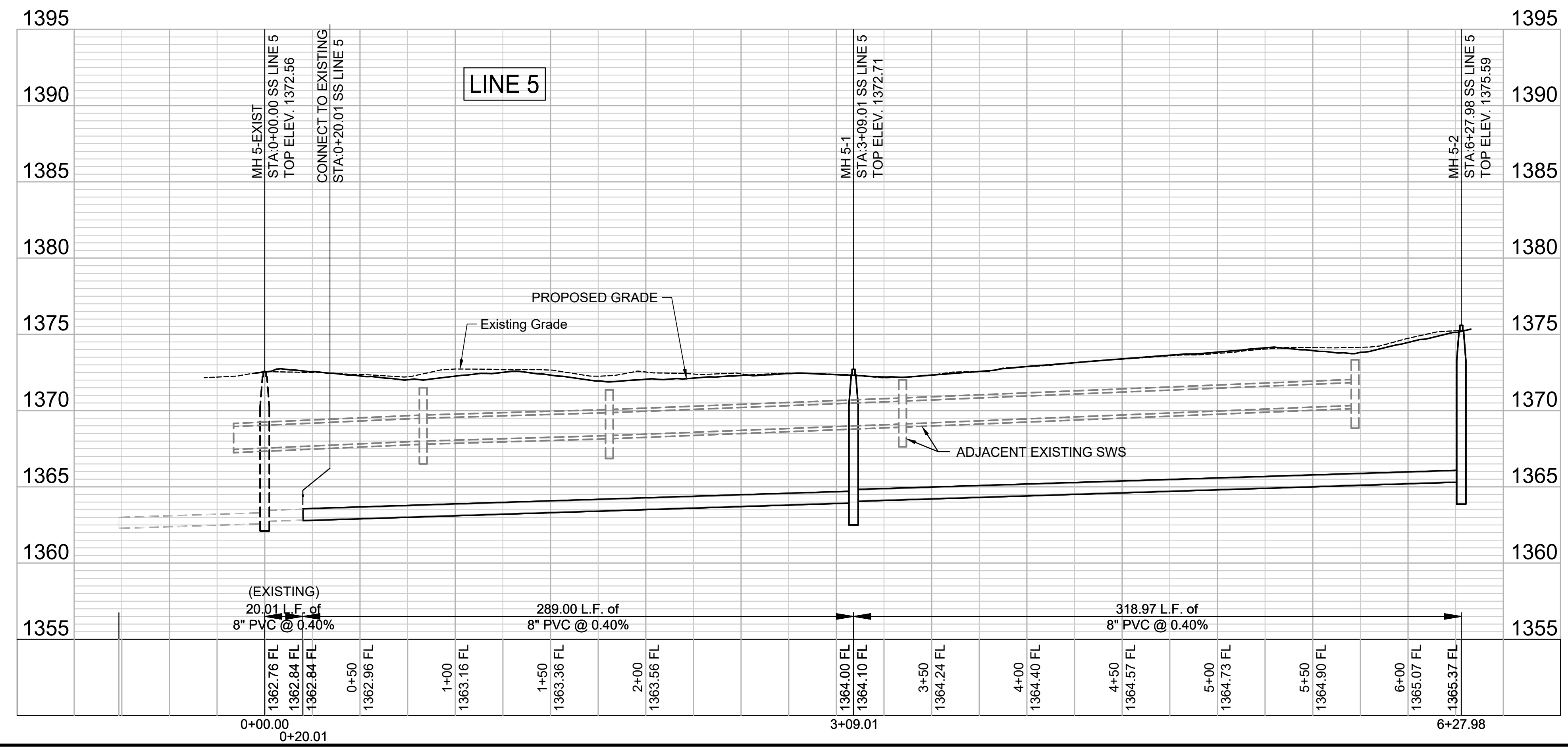
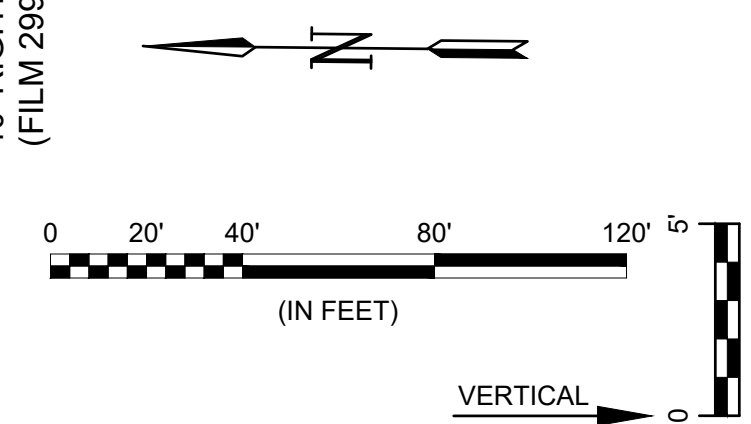
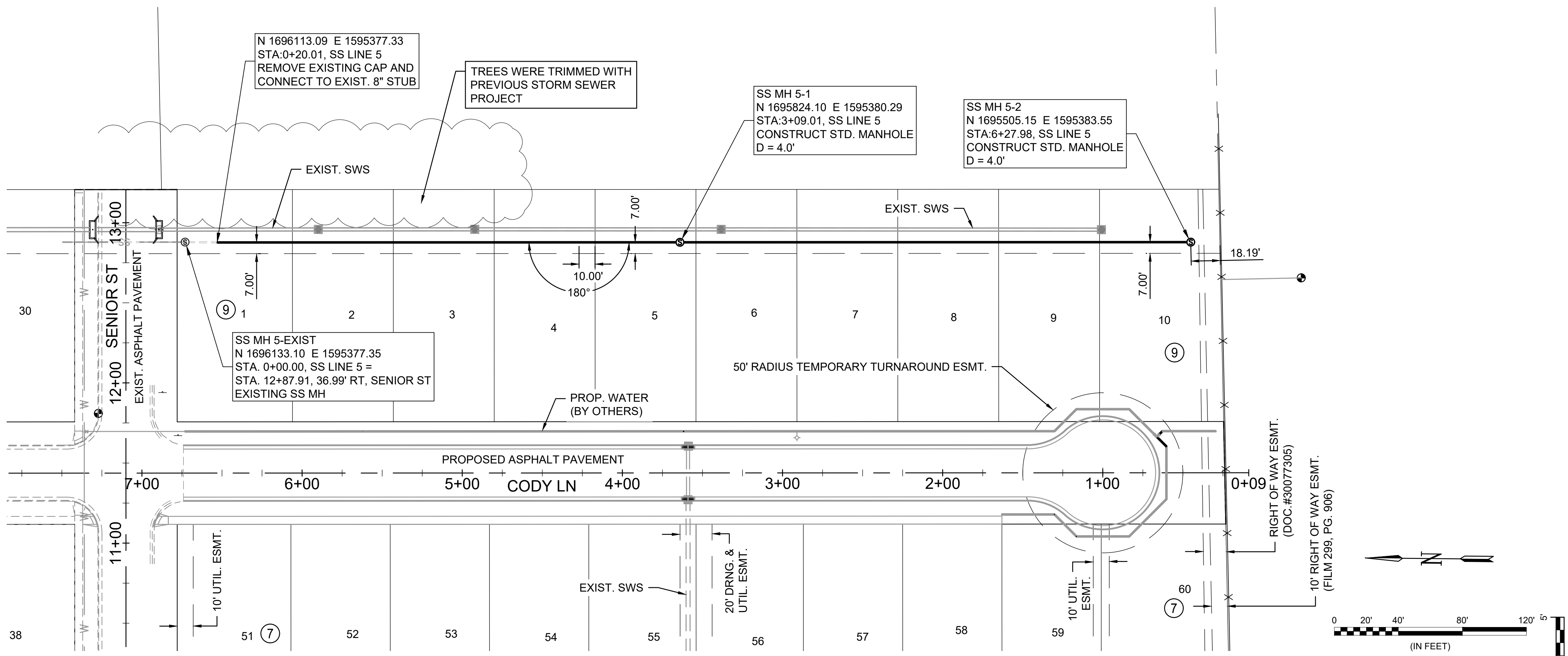
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 Last plotted by: Standrich, Darryl R. Plot Style: --- Plot Scale: 1:2.5849 Plot Date: 4/2/2026 8:46 AM Plotter used: None

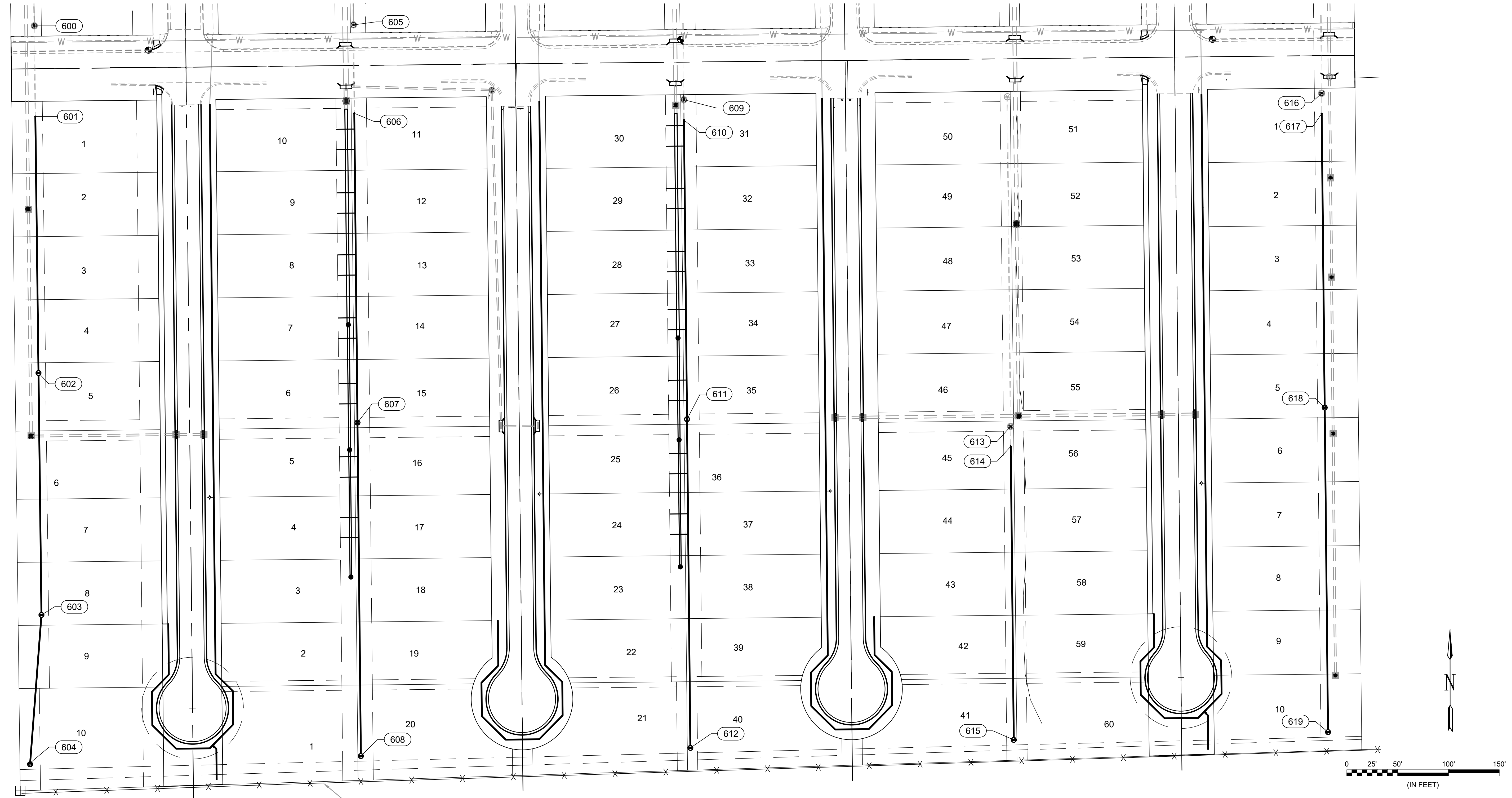
REV.	DATE	DESCRIPTION	BY

CITY OF WICHITA
 WICHITA, KANSAS
 AREA 151
 SANITARY SEWER - PHASE 2

SS LINE 5
 JOB NO.: 2501905
 DATE: MARCH 2026
 DESIGNED BY: EJJ
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 SHEET NUMBER **10** OF **22**

Sanitary Sewer Point Table					
Point #	Northing	Easting	Grid Northing	Grid Easting	Description
600	1696199.33	1594111.63	1696100.85	1594019.08	MH 1-EXIST
601	1696110.14	1594112.70	1696011.67	1594020.15	LINE 1 START
602	1695858.16	1594115.80	1695759.70	1594023.24	MH 1-1
603	1695620.28	1594118.71	1695521.84	1594026.16	MH 1-2
604	1695474.80	1594107.61	1695376.36	1594015.06	MH 1-3
605	1696200.28	1594425.40	1696101.80	1594332.83	MH 2-EXIST
606	1696113.35	1594426.28	1696014.88	1594333.70	LINE 2 START
607	1695809.37	1594429.39	1695710.91	1594336.82	MH 2-1
608	1695481.59	1594432.74	1695383.15	1594340.17	MH 2-2
609	1696126.73	1594750.21	1696028.25	1594657.62	MH 3-EXIST

Sanitary Sewer Point Table					
Point #	Northing	Easting	Grid Northing	Grid Easting	Description
610	1696106.67	1594750.36	1696008.20	1594657.77	LINE 3 START
611	1695812.69	1594753.37	1695714.23	1594660.78	MH 3-1
612	1695489.62	1594756.68	1695391.18	1594664.09	MH 3-2
613	1695805.60	1595071.46	1695707.14	1594978.85	MH 4-EXIST
614	1695785.94	1595071.66	1695687.49	1594979.05	LINE 4 START
615	1695497.50	1595074.61	1695399.06	1594982.00	MH 4-1
616	1696133.10	1595377.35	1696034.62	1595284.72	MH 5-EXIST
617	1696113.09	1595377.33	1696014.61	1595284.70	LINE 5 START
618	1695824.10	1595380.29	1695725.64	1595287.66	MH 5-1
619	1695505.15	1595383.55	1695406.71	1595290.92	MH 5-2



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REV.	DATE	DESCRIPTION	BY

CITY OF WICHITA
 WICHITA, KANSAS
 AREA 151
 SANITARY SEWER - PHASE 2

SS
 COORDIANTE
 POINTS
 JOB NO.: 2501905
 DATE: MARCH 2026
 DESIGNED BY: EJJ
 DRAWN BY: DRS
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 SHEET NUMBER **11** OF **22**



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REV.	DATE	DESCRIPTION	BY



CITY OF WICHITA
 WICHITA, KANSAS

AREA 151
 SANITARY SEWER - PHASE 2

COORDINATE
 MAP
 ADDITION-SS

JOB NO.: 2501905
 DATE: MARCH 2026
 DESIGNED BY: EJG
 DRAWN BY: DRS

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SHEET NUMBER **12** OF **22**



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Last plotted by: Standrich, Darryl R. Plot Style: --- Plot Scale: 1:2.5849 Plot Date: 3/31/2026 2:14 PM Plotter Used: None

Addition Point Table					
Point #	Northing	Easting	Grid Northing	Grid Easting	Description
100	1698090.96	1596614.61	1697992.37	1596521.91	ADDITION COR
101	1698066.72	1596639.80	1697968.13	1596547.10	ADDITION COR
102	1697916.68	1596641.03	1697818.10	1596548.33	ADDITION COR
103	1697817.12	1596656.85	1697718.55	1596564.15	ADDITION COR
104	1697032.94	1596663.28	1696934.41	1596570.58	ADDITION COR
105	1697020.39	1596253.49	1696921.86	1596160.81	ADDITION COR
106	1696834.39	1596255.02	1696735.88	1596162.34	ADDITION COR
107	1696808.30	1595403.21	1696709.78	1595310.58	ADDITION COR
108	1695487.97	1595416.73	1695389.53	1595324.10	ADDITION COR
109	1695447.40	1594097.83	1695348.96	1594005.28	ADDITION COR
110	1697233.15	1594075.92	1697134.60	1593983.37	ADDITION COR
111	1697466.71	1594648.32	1697368.16	1594555.74	ADDITION COR
112	1697935.09	1594852.42	1697836.50	1594759.82	ADDITION COR
113	1698007.29	1595347.40	1697908.70	1595254.77	ADDITION COR
114	1698073.75	1596050.29	1697975.16	1595957.63	ADDITION COR
115	1698077.17	1596162.53	1697978.58	1596069.86	BLOCK COR
116	1698027.19	1596164.05	1697928.61	1596071.38	PI
117	1697969.73	1596146.80	1697871.15	1596054.12	PI
118	1697669.78	1596155.95	1697571.21	1596063.27	PC
119	1697604.88	1596171.16	1697506.32	1596078.48	PT
120	1697535.22	1596203.10	1697436.66	1596110.42	BLOCK COR
121	1697541.47	1596245.86	1697442.91	1596153.18	PT
122	1697549.54	1596509.32	1697450.98	1596416.62	PC
123	1697485.57	1596511.28	1697387.02	1596418.58	PT
124	1697477.50	1596247.82	1697378.95	1596155.14	PC
125	1697351.53	1596126.65	1697252.99	1596033.98	PT
126	1697208.70	1596127.82	1697110.16	1596035.15	BLOCK COR
127	1697225.06	1596661.71	1697126.51	1596569.00	BLOCK COR
128	1697167.04	1596662.18	1697068.51	1596569.48	BLOCK COR
129	1697150.69	1596128.30	1697052.15	1596035.63	BLOCK COR
130	1697120.98	1596128.54	1697022.44	1596035.87	PC
131	1696955.71	1595969.57	1696857.19	1595876.91	PT
132	1696936.88	1595354.86	1696838.36	1595262.23	PC
133	1696835.90	1595257.92	1696737.39	1595165.30	PT
134	1696200.94	1595264.42	1696102.46	1595171.80	BLOCK COR
135	1696202.42	1595409.42	1696103.94	1595316.79	BLOCK COR
136	1698074.64	1596079.57	1697976.05	1595986.90	BLOCK COR
137	1697667.83	1596091.98	1697569.26	1595999.31	PC
138	1697578.20	1596112.98	1697479.64	1596020.31	PT
139	1697508.54	1596144.92	1697409.99	1596052.25	BLOCK COR
140	1697351.01	1596062.65	1697252.46	1595969.99	PT
141	1697120.45	1596064.55	1697021.92	1595971.88	PC
142	1697019.68	1595967.61	1696921.15	1595874.95	PT
143	1697014.41	1595795.45	1696915.88	1595702.80	BLOCK COR
144	1697246.02	1595793.55	1697147.47	1595700.90	PC
145	1697245.54	1595735.55	1697147.00	1595642.90	PT
146	1697012.63	1595737.46	1696914.10	1595644.81	BLOCK COR
147	1697002.99	1595422.61	1696904.46	1595329.98	BLOCK COR
148	1697234.60	1595420.71	1697136.05	1595328.08	PC
149	1697234.12	1595362.72	1697135.58	1595270.09	PT

Addition Point Table					
Point #	Northing	Easting	Grid Northing	Grid Easting	Description
150	1697001.21	1595364.63	1696902.68	1595272.00	BLOCK COR
151	1697000.85	1595352.90	1696902.32	1595260.27	PC
152	1696835.25	1595193.93	1696736.73	1595101.31	PT
153	1696200.28	1595200.43	1696101.80	1595107.81	BLOCK COR
154	1696197.59	1594937.44	1696099.11	1594844.84	BLOCK COR
155	1696450.92	1594934.85	1696352.42	1594842.25	PC
156	1696530.15	1594906.61	1696431.65	1594814.01	PT
157	1696555.07	1594920.18	1696456.57	1594827.57	PC
158	1696602.87	1594832.34	1696504.37	1594739.74	PT
159	1696577.95	1594818.78	1696479.45	1594726.18	PC
160	1696561.87	1594742.32	1696463.37	1594649.73	PT
161	1696492.10	1594619.03	1696393.60	1594526.44	PC
162	1696378.51	1594553.57	1696280.01	1594460.99	PT
163	1696193.68	1594555.46	1696095.20	1594462.88	BLOCK COR
164	1696190.99	1594292.47	1696092.51	1594199.91	BLOCK COR
165	1696984.73	1594284.35	1696886.21	1594191.79	PC
166	1697125.15	1594377.67	1697026.62	1594285.11	PT
167	1697173.83	1594496.96	1697075.29	1594404.39	BLOCK COR
168	1696962.13	1594583.34	1696863.60	1594490.76	PC
169	1696938.34	1594655.69	1696839.81	1594563.10	PT
170	1697195.74	1594550.67	1697097.20	1594458.09	BLOCK COR
171	1697255.85	1594698.01	1697157.31	1594605.42	PC
172	1697306.12	1594782.60	1697207.57	1594690.01	PT
173	1697286.84	1594793.01	1697188.30	1594700.42	PT
174	1697104.53	1594866.96	1697005.99	1594774.37	PC
175	1697172.07	1594902.16	1697073.53	1594809.56	PT
176	1697308.64	1594846.76	1697210.10	1594754.16	PC
177	1697346.99	1594824.49	1697248.44	1594731.89	BLOCK COR
178	1697430.63	1594876.94	1697332.08	1594784.34	PT
179	1697634.55	1594965.80	1697535.99	1594873.20	PC
180	1697746.66	1595112.56	1697648.09	1595019.95	PT
181	1697770.11	1595273.31	1697671.54	1595180.68	PC
182	1697822.81	1595371.65	1697724.24	1595279.03	BLOCK COR
183	1697797.73	1595478.85	1697699.16	1595386.21	PT
184	1697824.83	1595765.49	1697726.26	1595672.84	PC
185	1697882.58	1595760.03	1697784.00	1595667.38	PT
186	1697855.47	1595473.39	1697756.89	1595380.75	PC
187	1697872.14	1595402.17	1697773.56	1595309.54	BLOCK COR
188	1697937.39	1595413.56	1697838.81	1595320.93	PT
189	1698013.32	1595411.24	1697914.74	1595318.61	BLOCK COR
190	1697654.56	1596092.76	1697556.00	1596000.09	BLOCK COR
191	1697486.99	1595963.75	1697388.44	1595871.09	BLOCK COR
192	1697341.69	1595932.73	1697243.15	1595840.07	BLOCK COR
193	1697331.34	1595594.88	1697232.80	1595502.24	BLOCK COR
194	1697008.35	1595597.53	1696909.82	1595504.89	BLOCK COR
195	1697007.27	1595562.54	1696908.74	1595469.90	BLOCK COR
196	1697330.27	1595559.89	1697231.73	1595467.25	BLOCK COR
197	1697319.92	1595222.05	1697221.38	1595129.43	BLOCK COR
198	1697106.05	1595181.83	1697007.52	1595089.21	BLOCK COR
199	1696779.64	1594863.17	1696681.12	1594770.58	BLOCK COR

Addition Point Table					
Point #	Northing	Easting	Grid Northing	Grid Easting	Description
200	1696528.29	1594419.03	1696429.79	1594326.46	BLOCK COR
201	1696519.09	1594289.12	1696420.59	1594196.55	BLOCK COR
202	1696660.87	1594287.66	1696562.36	1594195.10	BLOCK COR
203	1696662.06	1594404.05	1696563.55	1594311.48	BLOCK COR
204	1696771.22	1594467.07	1696672.71	1594374.49	BLOCK COR
205	1696943.85	1594791.86	1696845.32	1594699.26	BLOCK COR
206	1697008.99	1594765.43	1696910.46	1594672.84	BLOCK COR
207	1697077.03	1594932.19	1696978.50	1594839.58	BLOCK COR
208	1697185.40	1594896.75	1697086.86	1594804.15	BLOCK COR
209	1697230.50	1595007.95	1697131.96	1594915.34	BLOCK COR
210	1697301.85	1594979.01	1697203.31	1594886.40	BLOCK COR
211	1697598.95	1595108.47	1697500.39	1595015.86	BLOCK COR
212	1697664.89	1595594.89	1697566.32	1595502.25	BLOCK COR
213	1697686.11	1595858.91	1697587.54	1595766.25	BLOCK COR
214	1698024.48	1595847.91	1697925.89	1595755.26	BLOCK COR
215	1697935.44	1595349.59	1697836.86	1595256.96	PC
216	1697833.44	1595264.07	1697734.86	1595171.45	PT
217	1697809.99	1595103.32	1697711.42	1595010.71	PC
218	1697660.12	1594907.13	1697561.55	1594814.53	PT
219	1697456.19	1594818.27	1697357.64	1594725.68	PC
220	1697315.11	1594673.83	1697216.57	1594581.24	PT
221	1697184.41	1594353.50	1697085.87	1594260.93	PC
222	1696984.08	1594220.35	1696885.55	1594127.79	PT
223	1696609.94	1594224.18	1696511.43	1594131.62	BLOCK COR
224	1696608.50	1594083.59	1696509.99	1593991.03	BLOCK COR
225	1696544.50	1594084.37	1696446.00	1593991.82	BLOCK COR
226	1696545.94	1594224.84	1696447.44	1594132.28	BLOCK COR
227	1696190.33	1594228.48	1696091.85	1594135.92	BLOCK COR
228	1696188.90	1594088.74	1696090.42	1593996.18	BLOCK COR
229	1696124.91	1594089.52	1696026.43	1593996.97	BLOCK COR
230	1696126.37	1594232.13	1696027.89	1594139.57	BLOCK COR
231	1695451.74	1594239.04	1695353.30	1594146.48	BLOCK COR
232	1695453.53	1594297.02	1695355.09	1594204.46	BLOCK COR
233	1696126.96	1594290.13	1696028.48	1594197.57	BLOCK COR
234	1696129.68	1594556.12	1696031.21	1594463.54	BLOCK COR
235	1695578.04	1594561.76	1695479.60	1594469.18	PC
236	1695578.64	1594619.76	1695480.19	1594527.18	PT
237	1696130.28	1594614.11	1696031.80	1594521.53	BLOCK COR
238	1696133.00	1594880.10	1696034.52	1594787.50	BLOCK COR
239	1695588.01	1594885.68	1695489.56	1594793.08	PC
240	1695588.60	1594943.68	1695490.15	1594851.07	PT
241	1696133.59	1594938.10	1696035.12	1594845.49	BLOCK COR
242	1696136.29	1595201.08	1696037.81	1595108.46	BLOCK COR
243	1695481.54	1595207.78	1695383.10	1595115.17	BLOCK COR
244	1695483.51	1595271.77	1695385.07	1595179.15	BLOCK COR
245	1696136.94	1595265.08	1696038.46	1595172.46	BLOCK COR
246	1696138.43	1595410.07	1696039.95	1595317.44	BLOCK COR
247	1696197.00	1594879.44	1696098.52	1594786.85	BLOCK COR
248	1696194.27				



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1995 Midfield Road
 Wichita, KS 67209
 (316) 264-8008

REV.	DATE	DESCRIPTION	BY



CITY OF WICHITA
 WICHITA, KANSAS
 AREA 151
 SANITARY SEWER - PHASE 2

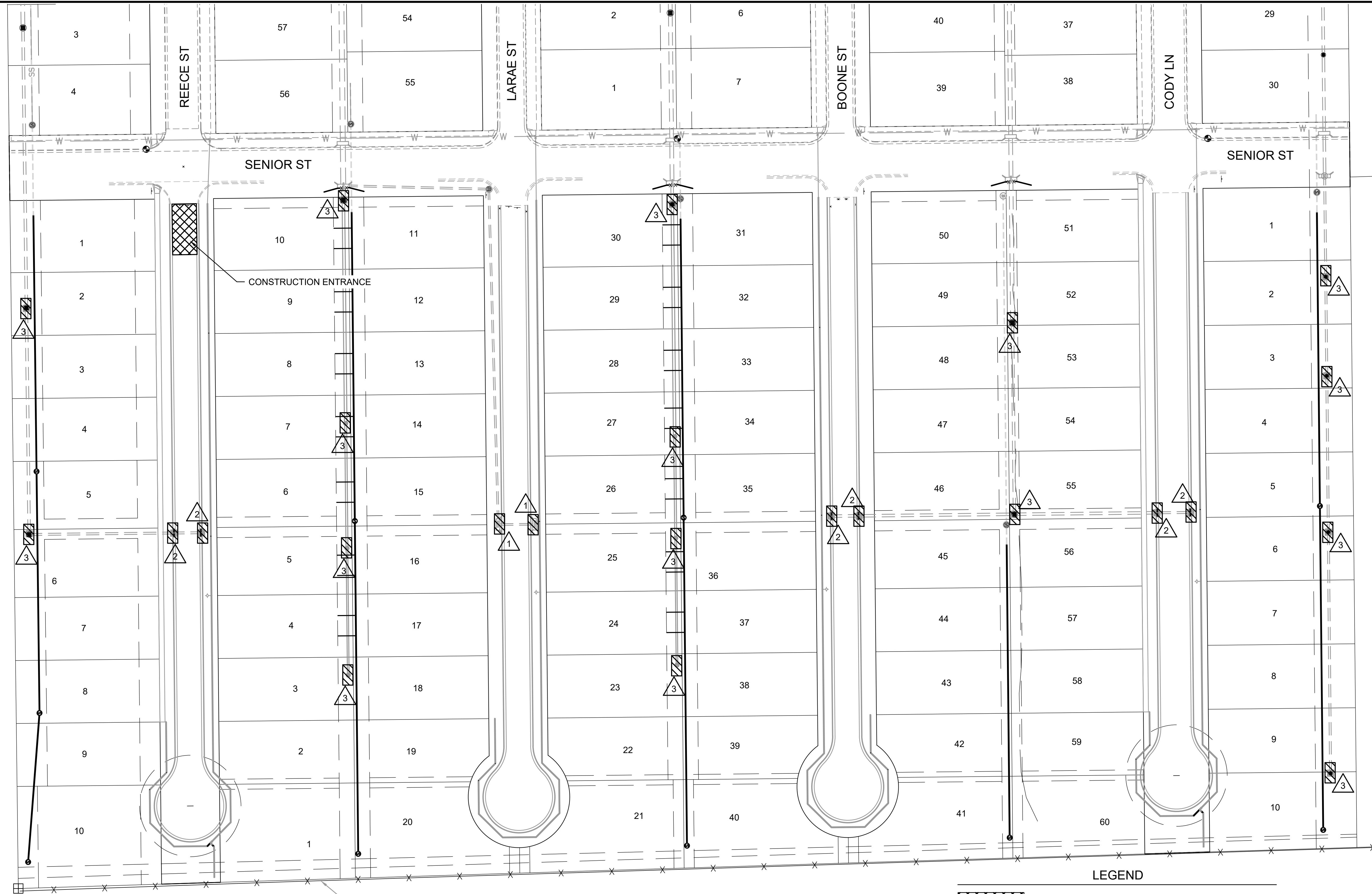
EROSION CONTROL PLAN SS

JOB NO.: 2501905
 DATE: MARCH 2026
 DESIGNED BY: EJG
 DRAWN BY: DRS

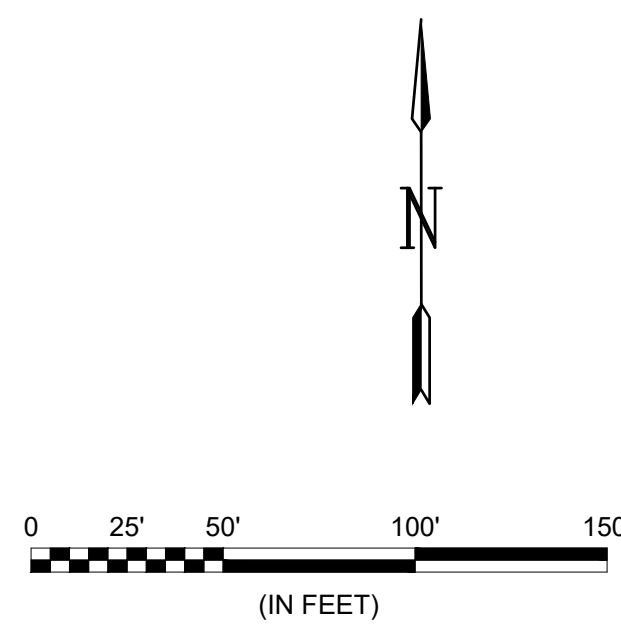
BAR IS ONE INCH ON ORIGINAL DRAWING
 0 25' 50' 100' 150'
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER

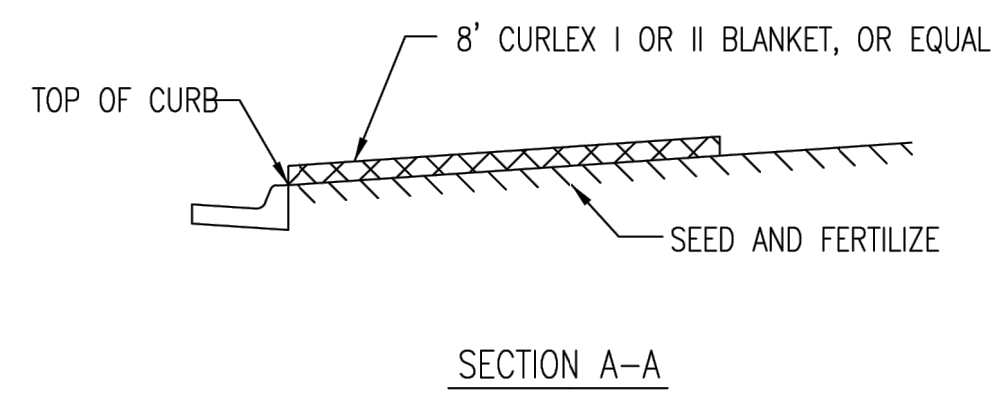
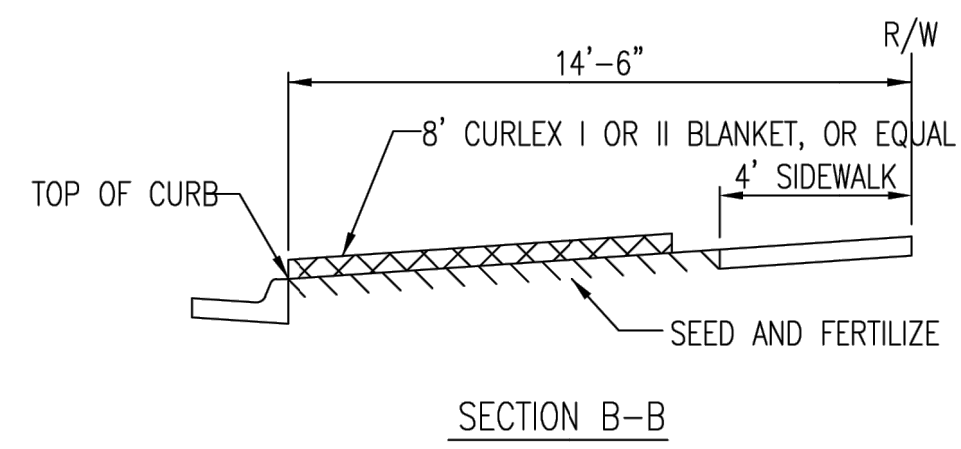
SHEET NUMBER **14** OF **22**



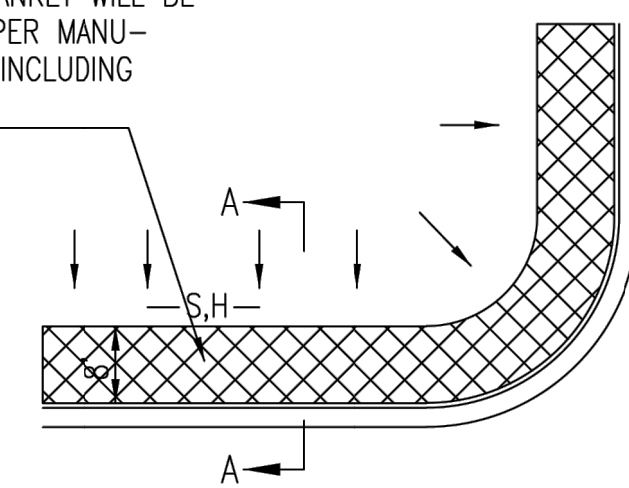
- LEGEND**
- MAINTAIN CONSTRUCTION ENTRANCE (1 EACH)
 - MAINTAIN CURB INLET PROTECTION (2 EACH)
 - MAINTAIN DROP INLET PROTECTION (6 EACH)
 - INSTALL & MAINTAIN DROP INLET PROTECTION (16 EACH)



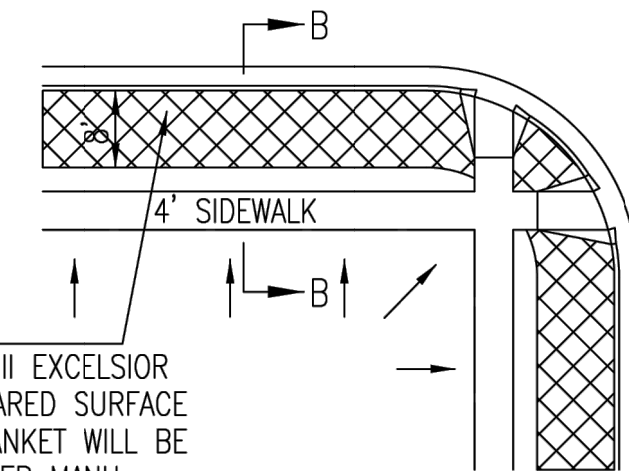
File: K:\2025\141-2501905 - Area 151 Ph 2\Drawings\DESIGN\141-2501905 EROSION CONTROL.dwg Last Save: 3/31/2026 2:08 PM Last saved by: DRS\andrich
 Last plotted by: Standrich, Darryl R Plot Style: --- Plot Scale: 1:2,585 Plot Date: 4/2/2026 8:50 AM Plotter used: None



INSTALL 8' WIDE CURLEX I OR II EXCELSIOR BLANKET, OR EQUAL, ON PREPARED SURFACE BACK OF CURB. EDGE OF BLANKET WILL BE AT BACK OF CURB. INSTALL PER MANUFACTURERS RECOMMENDATION, INCLUDING STAPLES. (SEE DETAIL)



SOUTH STREET

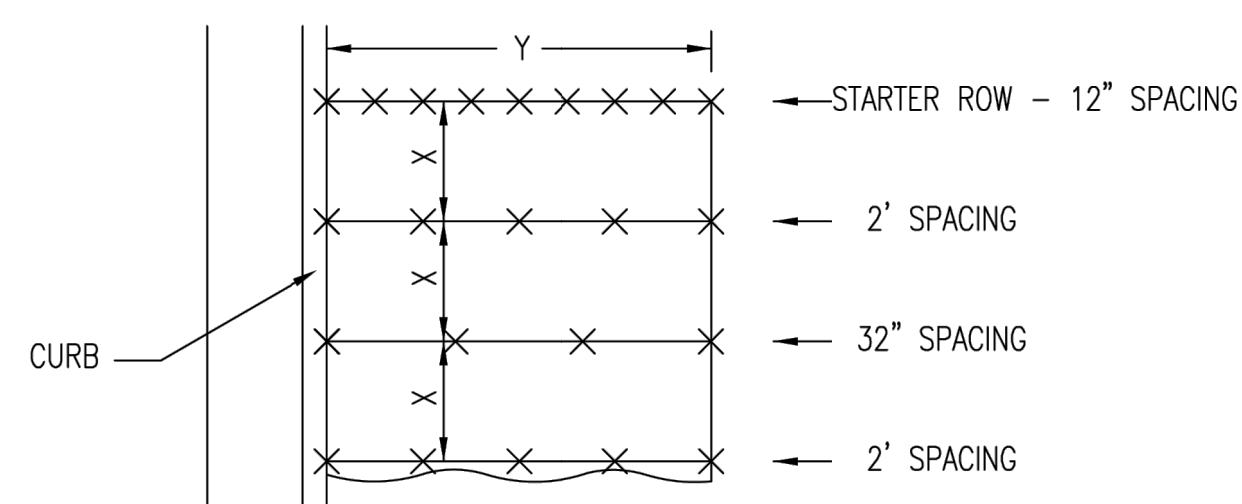


INSTALL 8' WIDE CURLEX I OR II EXCELSIOR BLANKET, OR EQUAL, ON PREPARED SURFACE BACK OF CURB. EDGE OF BLANKET WILL BE AT BACK OF CURB. INSTALL PER MANUFACTURERS RECOMMENDATION, INCLUDING STAPLES. (SEE DETAIL)

GENERAL NOTES

- EXCELSIOR MAT TO BE INSTALLED WHEN SOD IS NOT SPECIFIED ON PROJECT.
- EXCELSIOR BLANKET TO BE INSTALLED OVER SEED AND FERTILIZER, AS SPECIFIED IN THE PROJECT SPECIFICATIONS.
- AFTER INSTALLATION OF EXCELSIOR BLANKET, AT LOCATIONS WHERE CONCENTRATED FLOW CARRIES SEDIMENT OVER THE CURB AND INTO THE GUTTER, SUPPLEMENTAL EROSION CONTROL DEVICES WILL BE INSTALLED BY THE CONTRACTOR AS NEEDED, TO FIX THE PROBLEM.

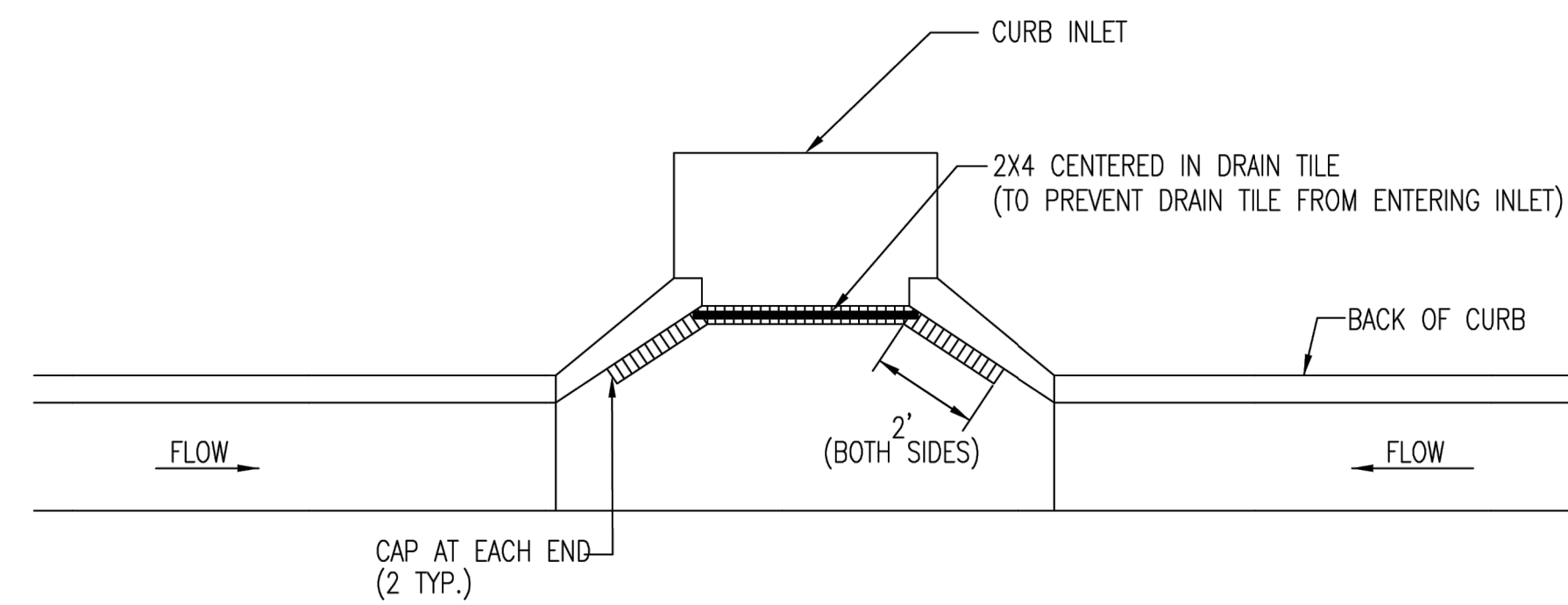
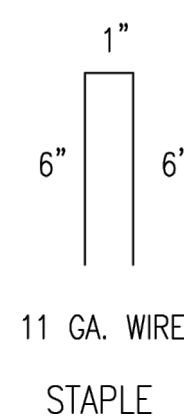
BACK OF CURB PROTECTION DETAIL



STAPLE PATTERN

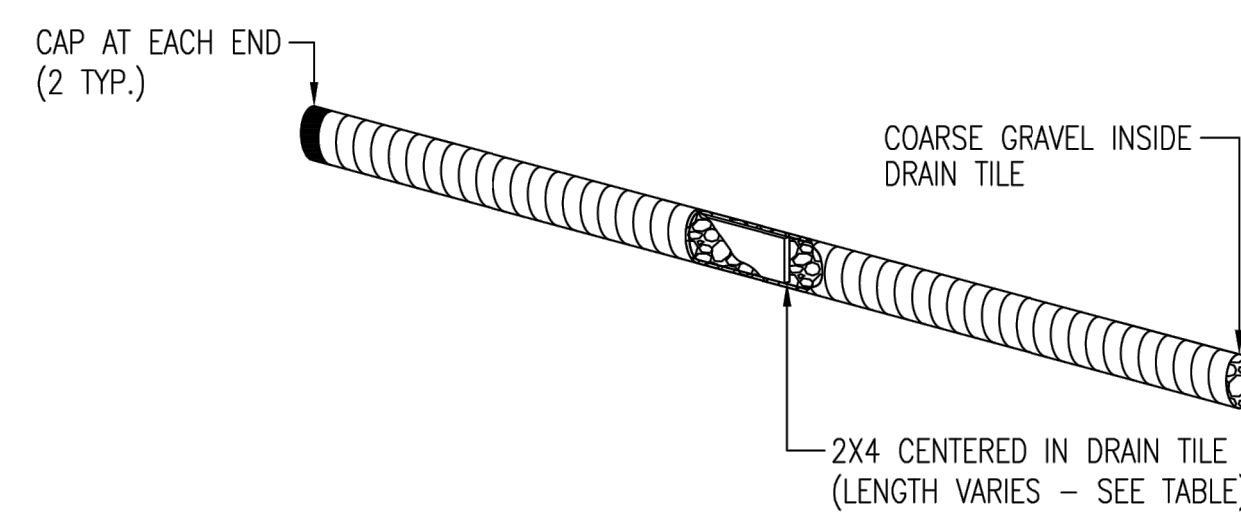
NOTES: USE 6" SEAM OVERLAP
(X & Y = RECOMMENDED BY MANUFACTURE)

DETAILS FOR APPROVED EROSION CONTROL MAT



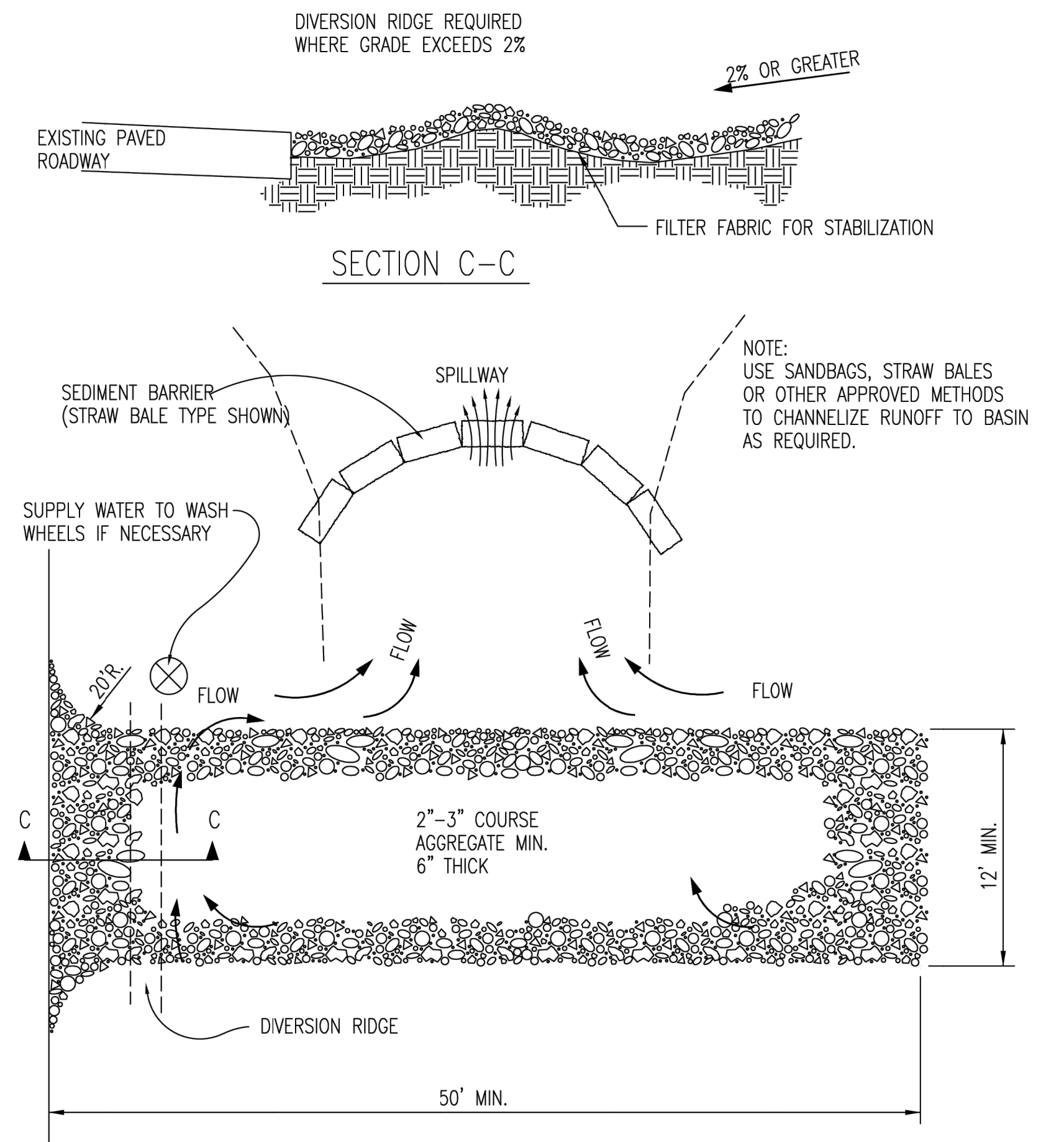
NOTE:
PLACE 4" PERFORATED PVC PIPE, FILLED WITH 1/2"-1" DIA. GRAVEL, IN FRONT OF CURB INLET AS SHOWN.

2X4 LENGTH	INLET TYPE	INLET OPENING
5'-6"	1-A	5'-0"
10'-6"	1-A	10'-0"
15'-6"	1-A	15'-0"



CURB INLET PROTECTION

4" PERFORATED PIPE W/ GRAVEL

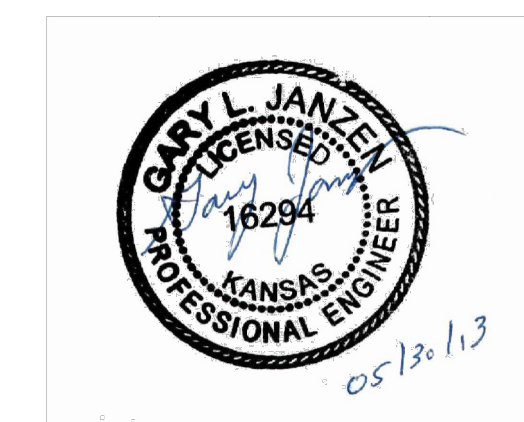


STABILIZED CONSTRUCTION ENTRANCE

GENERAL NOTES

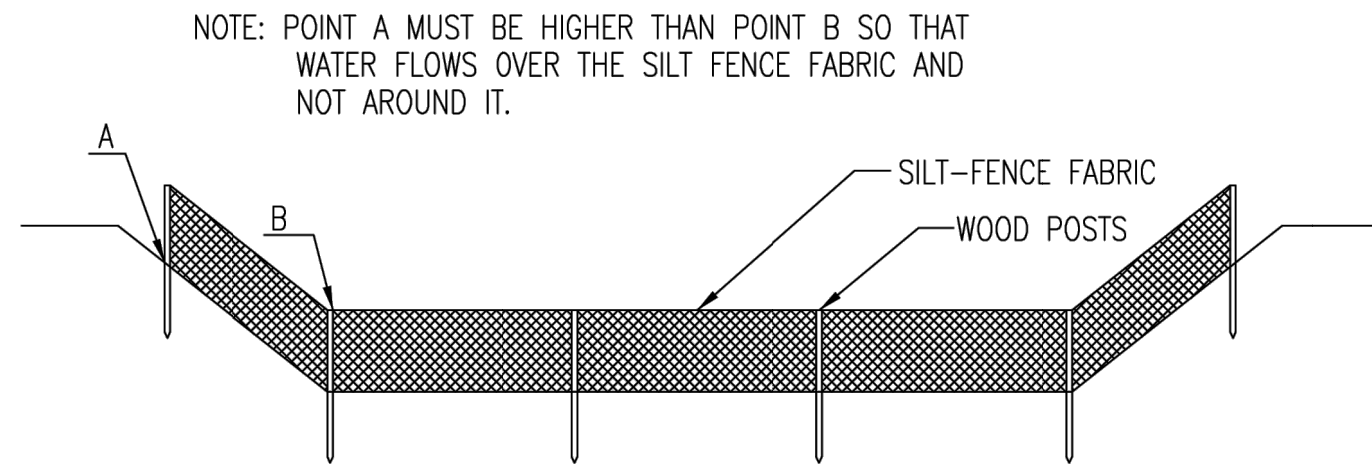
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
- WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
- WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN, AS SHOWN ABOVE.
- DRIVE ENTRANCES ONTO RESIDENTIAL LOTS WILL NOT BE REQUIRED TO HAVE THE SEDIMENT BARRIER SHOWN, BUT WHEEL WASHING MAY BE REQUIRED IF STABILIZED ENTRANCE IS NOT SUFFICIENT TO KEEP MUD FROM BEING TRACKED ONTO ADJACENT STREET. ENTRANCE SHALL EXTEND FROM BACK OF CURB TO DWELLING.

REVISION DATE: MAY 2013



BACK OF CURB PROTECTION,
CURB INLET PROTECTION AND
CONSTRUCTION ENTRANCE

CITY ENGINEER GARY JANZEN, P.E.		
PROJECT NUMBER	OCA NUMBER	DATE
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		SHEET 15 22



ELEVATION
SILT FENCE DITCH CHECKS
(STREAM PROTECTION)

MATERIAL SPECIFICATION:

SILT FENCE FABRIC SHOULD CONFORM TO THE AASHTO M288 96 SILT FENCE SPECIFICATION. THE POSTS USED TO SUPPORT THE SILT FENCE FABRIC SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG. SILT FENCE FABRIC SHOULD BE ATTACHED TO THE WOODEN POSTS WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

PLACEMENT:

PLACE SILT FENCE IN DITCHES WHERE IT IS UNLIKELY THAT IT WILL BE OVERTOPPED. WATER SHOULD FLOW THROUGH A SILT FENCE DITCH CHECK, NOT OVER IT. SILT FENCE DITCH CHECKS OFTEN FAIL WHEN OVERTOPPED. SILT FENCE DITCH CHECKS SHOULD BE PLACED PERPENDICULAR TO THE FLOWLINE OF THE DITCH. THE SILT FENCE SHOULD EXTEND FAR ENOUGH SO THAT THE GROUND LEVEL AT THE ENDS OF THE FENCE IS HIGHER THAN THE TOP OF THE LOW POINT OF THE FENCE. THIS PREVENTS WATER FROM FLOWING AROUND THE CHECK. SILT FENCE DITCH CHECKS SHOULD NOT BE PLACED IN DITCHES WHERE HIGH FLOWS ARE EXPECTED. ROCK CHECKS SHOULD BE USED INSTEAD. SILT FENCE SHOULD BE PLACED IN DITCHES WITH SLOPES OF 6% OR LESS. FOR SLOPES STEEPER THAN 6%, ROCK CHECKS SHOULD BE USED.

THE FOLLOWING TABLE PROVIDES CHECK SPACING FOR A GIVEN DITCH GRADE:

DITCH CHECK DITCH GRADE (%)	SPACING CHECK SPACING (FEET)
0.5	200
1.0	200
2.0	100
3.0	65
4.0	50
5.0	40
6.0	30

PROPER INSTALLATION METHOD:

EXCAVATE A TRENCH PERPENDICULAR TO THE DITCH FLOWLINE THAT IS AT LEAST 12" DEEP BY 6" WIDE. EXTEND THE TRENCH IN A STRAIGHT LINE ALONG THE ENTIRE LENGTH OF THE PROPOSED DITCH CHECK. PLACE THE SOIL ON THE UPSTREAM SIDE OF THE TRENCH FOR LATER USE. ROLL OUT A CONTINUOUS LENGTH OF SILT FENCE FABRIC ON THE DOWNSLOPE SIDE OF THE TRENCH. PLACE THE EDGE OF THE FABRIC IN THE TRENCH STARTING AT THE TOP UPSLOPE EDGE OF THE TRENCH. LINE TWO SIDES OF THE TRENCH WITH THE FABRIC AS SHOWN ON DETAIL. BACKFILL OVER THE FABRIC IN THE TRENCH WITH THE EXCAVATED SOIL AND COMPACT. AFTER FILLING THE TRENCH, APPROXIMATELY 24" TO 36" OF SILT FENCE FABRIC SHOULD REMAIN EXPOSED. LAY THE EXPOSED SILT FENCE ON THE UPSLOPE SIDE OF THE TRENCH TO CLEAR AN AREA FOR DRIVING IN THE POSTS. JUST DOWNSLOPE OF THE TRENCH, DRIVE POSTS INTO THE GROUND TO A DEPTH OF AT LEAST 24". PLACE POSTS NO MORE THAN 4' APART. ATTACH THE SILT FENCE TO THE ANCHORED POST WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

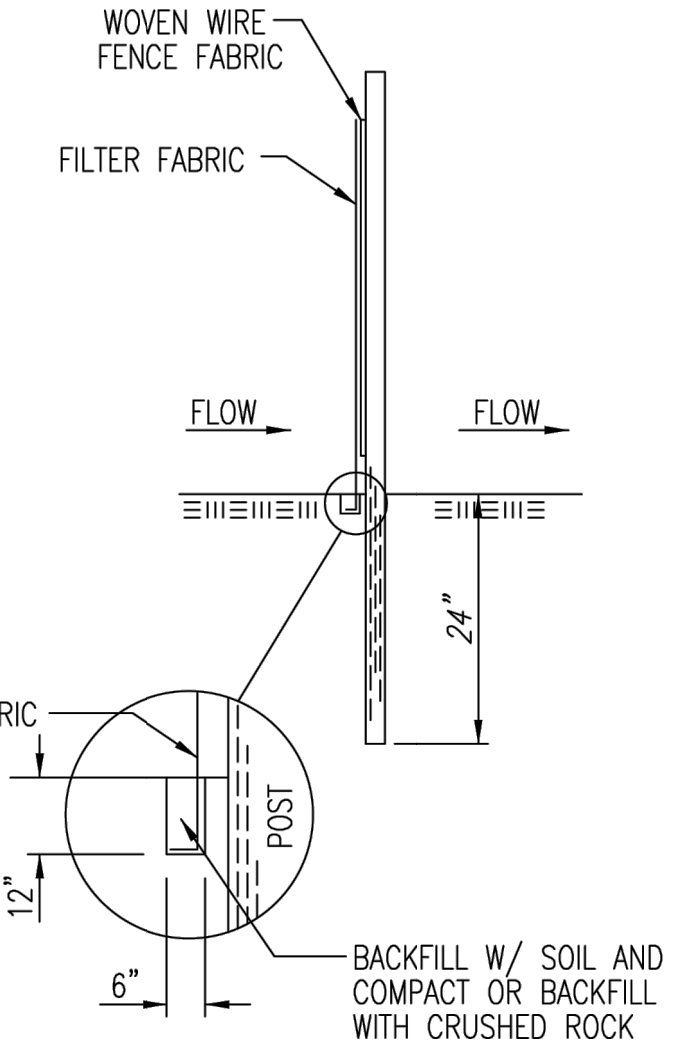
LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

WATER SHOULD FLOW THROUGH A SILT FENCE DITCH CHECK—NOT OVER IT. PLACE SILT FENCE IN DITCHES WHERE IT IS UNLIKELY THAT IT WILL BE OVERTOPPED. SILT FENCE INSTALLATIONS QUICKLY DETERIORATE WHEN WATER OVERTOPS THEM. DO NOT PLACE SILT FENCE POSTS ON THE UPSLOPE SIDE OF THE SILT FENCE FABRIC. IN THIS CONFIGURATION, THE FORCE OF THE WATER IS NOT RESTRICTED BY THE POSTS, BUT ONLY BY THE STAPLES (WIRE, ZIP TIES, NAILS, ETC.). THE SILT FENCE WILL RIP AND FAIL. DO NOT PLACE A SILT FENCE DITCH CHECK DIRECTLY IN FRONT OF A CULVERT OUTLET. IT WILL NOT STAND UP TO THE CONCENTRATED FLOW. DO NOT PLACE SILT FENCE DITCH CHECKS IN DITCHES THAT WILL LIKELY EXPERIENCE HIGH FLOWS. THEY WILL NOT STAND UP TO CONCENTRATED FLOW. FOLLOW PRESCRIBED DITCH CHECK SPACING GUIDELINES. IF SPACING GUIDELINES ARE EXCEEDED, EROSION WILL OCCUR BETWEEN THE DITCH CHECKS. DO NOT ALLOW WATER TO FLOW AROUND THE DITCH CHECK. MAKE SURE THAT THE DITCH CHECK IS LONG ENOUGH SO THAT THE GROUND LEVEL AT THE ENDS OF THE FENCE IS HIGHER THAN THE LOW POINT ON THE TOP OF THE FENCE. DO NOT PLACE SILT FENCE DITCH CHECKS IN CHANNELS WITH SHALLOW SOILS UNDERLAIN BY ROCK. IF THE CHECK IS NOT ANCHORED SUFFICIENTLY, IT WILL WASH OUT.

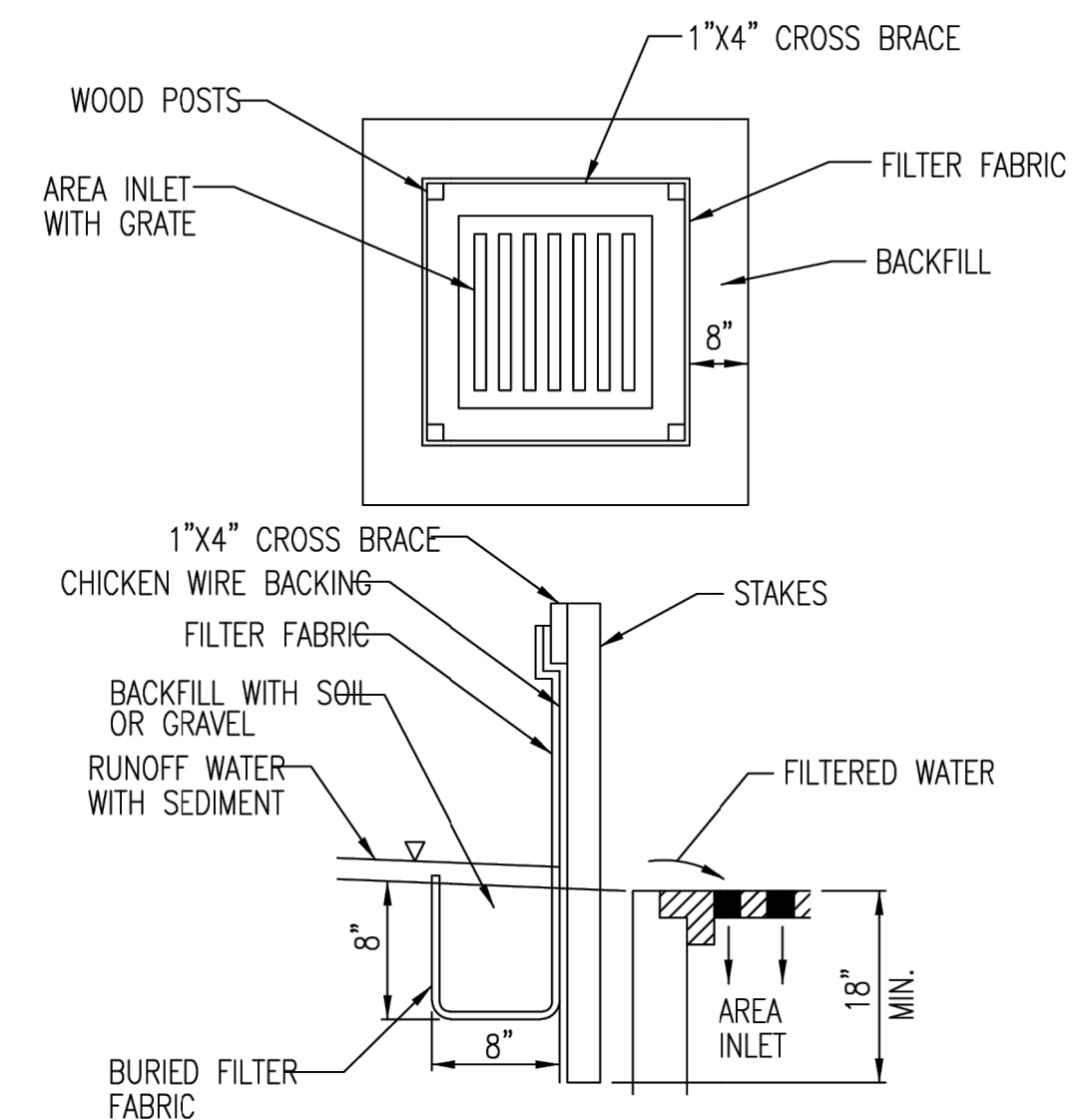
INSPECTION AND MAINTENANCE:

SILT FENCE DITCH CHECKS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

- DOES WATER FLOW AROUND THE DITCH CHECK?
- DOES WATER FLOW UNDER THE DITCH CHECK?
- DOES THE SILT FENCE SAG EXCESSIVELY?
- HAS THE SILT FENCE TORN OR BECOME DETACHED FROM THE POSTS?
- DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE DITCH CHECK?



ANCHOR TRENCH DETAIL



SILT FENCE BARRIERS FOR AREA INLETS
(INLET PROTECTION)

MATERIAL SPECIFICATION:

SILT FENCE FABRIC SHOULD CONFORM TO THE AASHTO M288 96 SILT FENCE SPECIFICATION. THE WIRE OR POLYMERIC MESH BACKING USED TO HELP SUPPORT THE SILT FENCE FABRIC SHOULD CONFORM TO THE AASHTO M288 96 SILT FENCE SPECIFICATION. THE POSTS USED TO SUPPORT THE SILT FENCE FABRIC SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG. THE MATERIAL USED TO FRAME THE TOPS OF THE POSTS SHOULD BE 1" BY 4" BOARDS. SILT FENCE FABRIC AND SUPPORT BACKING SHOULD BE ATTACHED TO THE WOODEN POSTS AND FRAME WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

PLACEMENT:

PLACE A SILT FENCE DROP INLET BARRIER IN A LOCATION WHERE IT IS UNLIKELY TO BE OVERTOPPED. WATER SHOULD FLOW THROUGH SILT FENCE, NOT OVER IT. SILT FENCE BARRIERS FOR AREA INLETS OFTEN FAIL WHEN REPEATEDLY OVERTOPPED. WHEN USED AS A BARRIER FOR AREA INLETS, SILT FENCE FABRIC AND POSTS MUST BE SUPPORTED AT THE TOP BY A WOODEN FRAME. WHEN A SILT FENCE BARRIER FOR AREA INLETS IS LOCATED NEAR AN INLET THAT HAS STEEP APPROACH SLOPES, THE STORAGE CAPACITY BEHIND THE BARRIER IS DRASTICALLY REDUCED. TIMELY REMOVAL OF SEDIMENT MUST OCCUR FOR A BARRIER TO OPERATE PROPERLY IN THIS LOCATION.

PROPER INSTALLATION METHOD:

EXCAVATE A TRENCH AROUND THE PERIMETER OF THE AREA INLET THAT IS AT LEAST 8" DEEP BY 8" WIDE. DRIVE POSTS TO A DEPTH OF AT LEAST 18" AROUND THE PERIMETER OF THE AREA INLET. THE DISTANCE BETWEEN POSTS SHOULD BE 4' OR LESS. IF THE DISTANCE BETWEEN TWO ADJACENT CORNER POSTS IS MORE THAN 4', ADD ANOTHER POST(S) BETWEEN THEM. CONNECT THE TOPS OF ALL THE POSTS WITH A WOODEN FRAME MADE OF 1" BY 4" BOARDS. USE NAILS OR SCREWS FOR FASTENING. ATTACH THE WIRE OR POLYMERIC-MESH BACKING TO THE OUTSIDE OF THE POST/FRAME STRUCTURE WITH STAPLES, WIRE, ZIP TIES, OR NAILS. ROLL OUT A CONTINUOUS LENGTH OF SILT FENCE FABRIC LONG ENOUGH TO WRAP AROUND THE PERIMETER OF THE AREA INLET. ADD MORE LENGTH FOR OVERLAPPING THE FABRIC JOINT. PLACE THE EDGE OF THE FABRIC IN THE TRENCH, STARTING AT THE OUTSIDE EDGE OF THE TRENCH. LINE ALL THREE SIDES OF THE TRENCH WITH THE FABRIC. BACKFILL OVER THE FABRIC IN THE TRENCH WITH THE EXCAVATED SOIL AND COMPACT. AFTER FILLING THE TRENCH, APPROXIMATELY 24" TO 36" OF SILT FENCE FABRIC SHOULD REMAIN EXPOSED. ATTACH THE SILT FENCE TO THE OUTSIDE OF THE POST/FRAME STRUCTURE WITH STAPLES, WIRE, ZIP TIES, OR NAILS. THE JOINT SHOULD BE OVERLAPPED TO THE NEXT POST.

NOTE: WHEN A SILT FENCE BARRIER FOR AREA INLET IS PLACED IN A SHALLOW MEDIAN DITCH, MAKE SURE THAT THE TOP OF THE BARRIER IS NOT HIGHER THAN THE PAVED ROAD. IN THIS CONFIGURATION, WATER MAY SPREAD ONTO THE ROADWAY CAUSING A HAZARDOUS CONDITION.

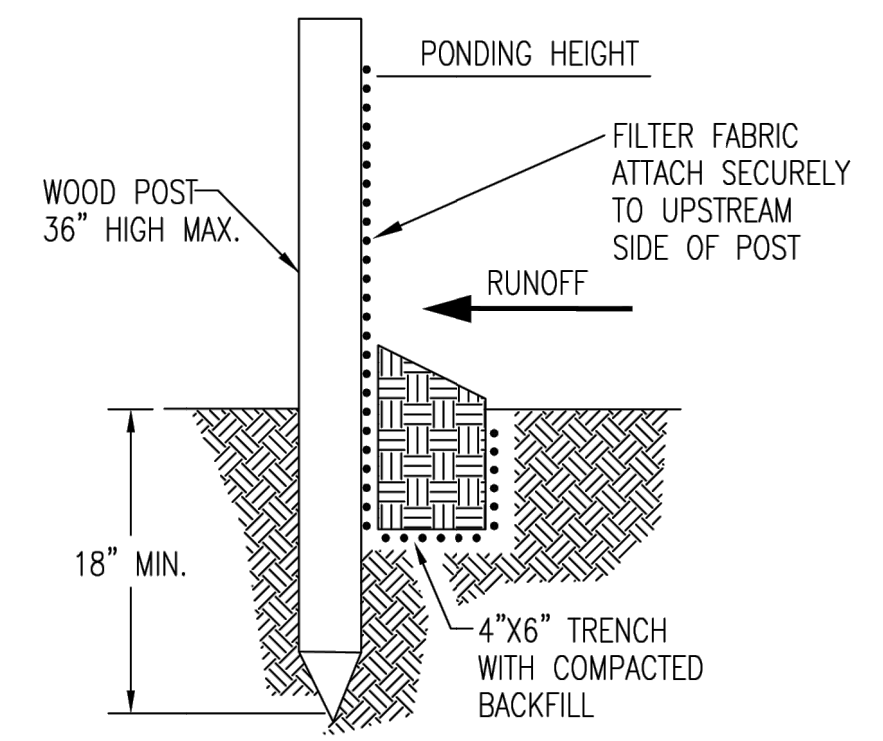
LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

WATER SHOULD FLOW THROUGH A SILT FENCE BARRIER FOR AREA INLET—NOT OVER IT. PLACE A SILT FENCE BARRIER FOR AREA INLET IN A LOCATION WHERE IT IS UNLIKELY TO BE OVERTOPPED. SILT FENCE BARRIER FOR AREA INLETS OFTEN FAIL WHEN REPEATEDLY OVERTOPPED. DO NOT PLACE POSTS ON THE OUTSIDE OF THE SILT FENCE BARRIER FOR AREA INLET. IN THIS CONFIGURATION, THE FORCE OF THE WATER IS NOT RESTRICTED BY THE POSTS, BUT ONLY BY THE STAPLES (WIRE, ZIP TIES, NAILS, ETC.). THE SILT FENCE WILL RIP AND FAIL. DO NOT INSTALL SILT FENCE BARRIER FOR AREA INLETS WITHOUT FRAMING THE TOP OF THE POSTS. THE CORNER POSTS AROUND AREA INLETS ARE STRESSED IN TWO DIRECTIONS WHEREAS A NORMAL SILT FENCE IS ONLY STRESSED IN ONE DIRECTION. THIS ADDED STRESS REQUIRES MORE SUPPORT.

INSPECTION AND MAINTENANCE:

SILT FENCE BARRIER FOR AREA INLETS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

- DOES WATER FLOW UNDER THE SILT FENCE?
- DOES THE SILT FENCE SAG EXCESSIVELY?
- HAS THE SILT FENCE TORN OR BECOME DETACHED FROM THE POSTS?
- DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE AREA INLET BARRIER?



SILT FENCE BARRIERS

MATERIAL SPECIFICATION:

SILT FENCE FABRIC SHOULD CONFORM TO THE AASHTO M288 96 SILT FENCE SPECIFICATION. THE POSTS USED TO SUPPORT THE SILT FENCE FABRIC SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG. SILT FENCE FABRIC SHOULD BE ATTACHED TO THE WOODEN POSTS WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

PLACEMENT:

A SLOPE BARRIER SHOULD BE USED AT THE TOE OF A SLOPE WHEN A DITCH DOES NOT EXIST. THE SLOPE BARRIER SHOULD BE PLACED ON NEARLY LEVEL GROUND 5' TO 10' AWAY FROM THE TOE OF A SLOPE. THE BARRIER IS PLACED AWAY FROM THE TOE OF THE SLOPE TO PROVIDE ADEQUATE STORAGE FOR SETTLING OUT SEDIMENT. WHEN PRACTICABLE, SILT FENCE SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. SILT FENCE SLOPE BARRIERS CAN ALSO BE PLACED ALONG RIGHT-OF-WAY FENCE LINES TO KEEP SEDIMENT FROM CROSSING ONTO ADJACENT PROPERTY. WHEN PLACED IN THIS MANNER, THE SLOPE BARRIER WILL NOT LIKELY FOLLOW CONTOURS.

PROPER INSTALLATION METHOD:

EXCAVATE A TRENCH THE LENGTH OF THE PLANNED SLOPE BARRIER THAT IS 6" DEEP BY 4" WIDE. MAKE SURE THAT THE TRENCH IS EXCAVATED ALONG A SINGLE CONTOUR. WHEN PRACTICABLE, SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. PLACE THE SOIL ON THE UPSLOPE SIDE OF THE TRENCH FOR LATER USE. ROLL OUT A CONTINUOUS LENGTH OF SILT FENCE FABRIC ON THE DOWNSLOPE SIDE OF THE TRENCH. PLACE THE EDGE OF THE FABRIC IN THE TRENCH STARTING AT THE TOP UPSLOPE EDGE. LINE ALL THREE SIDES OF THE TRENCH WITH THE FABRIC. BACKFILL OVER THE FABRIC IN THE TRENCH WITH THE EXCAVATED SOIL AND COMPACT. AFTER FILLING THE TRENCH, APPROXIMATELY 24" TO 36" OF SILT-FENCE FABRIC SHOULD REMAIN EXPOSED. LAY THE EXPOSED SILT FENCE UPSLOPE OF THE TRENCH TO CLEAR AN AREA FOR DRIVING IN THE POSTS. JUST DOWNSLOPE OF THE TRENCH, DRIVE POSTS INTO THE GROUND TO A DEPTH OF AT LEAST 18". PLACE POSTS NO MORE THAN 4' APART. ATTACH THE SILT FENCE TO THE ANCHORED POST WITH STAPLES, WIRE, ZIP TIES, OR NAILS.


LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

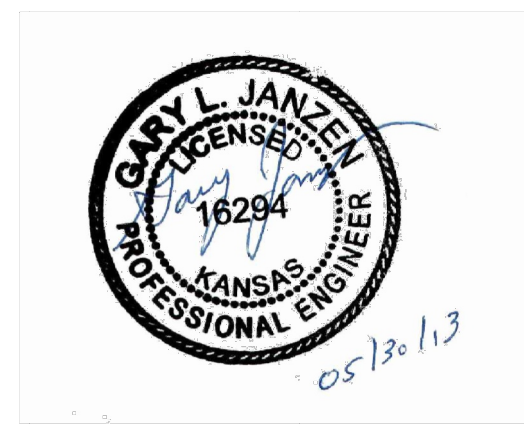
WHEN PRACTICABLE, DO NOT PLACE SILT FENCE SLOPE BARRIERS ACROSS CONTOURS. SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. WHEN THE FLOW CONCENTRATES, IT OVERTOPS THE BARRIER AND THE SILT FENCE SLOPE BARRIER QUICKLY DETERIORATES. DO NOT PLACE SILT-FENCE POSTS ON THE UPSLOPE SIDE OF THE SILT FENCE FABRIC. IN THIS CONFIGURATION, THE FORCE OF THE WATER IS NOT RESTRICTED BY THE POSTS, BUT ONLY BY THE STAPLES (WIRE, ZIP TIES, NAILS, ETC.). THE SILT FENCE WILL RIP AND FAIL. DO NOT PLACE SILT FENCE SLOPE BARRIERS IN AREAS WITH SHALLOW SOILS UNDERLAIN BY ROCK. IF THE BARRIER IS NOT SUFFICIENTLY ANCHORED, IT WILL WASH OUT. SILT FENCE SLOPE BARRIERS MUST BE DUG INTO THE GROUND—SILT FENCE AT GROUND LEVEL DOES NOT WORK BECAUSE WATER WILL FLOW UNDERNEATH.

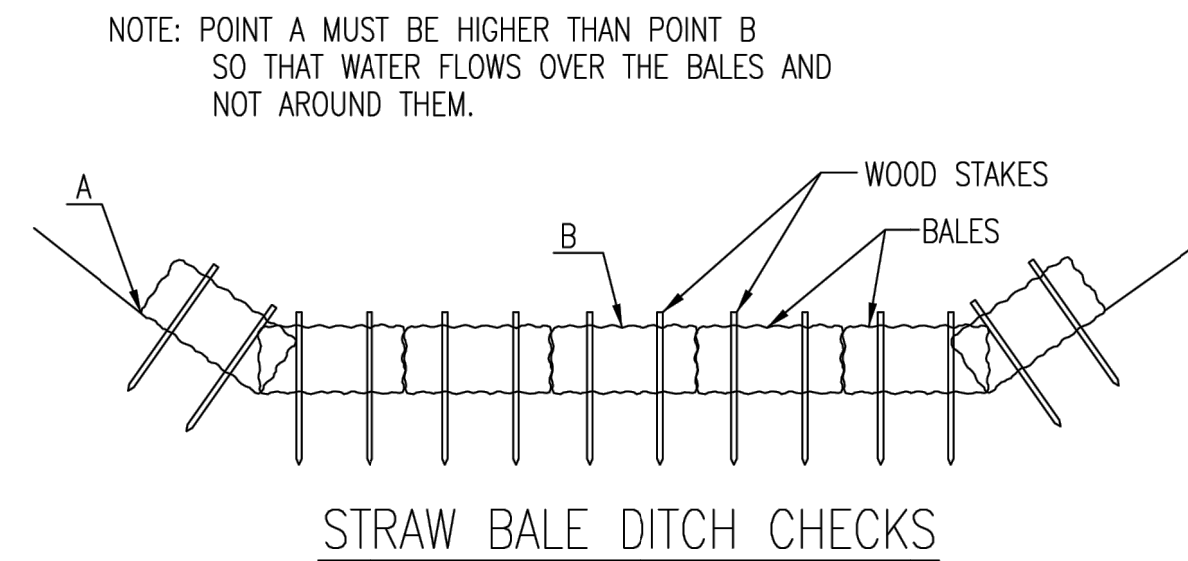
INSPECTION AND MAINTENANCE:

SILT FENCE SLOPE BARRIERS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

- ARE THERE ANY POINTS ALONG THE SLOPE BARRIER WHERE WATER IS CONCENTRATING?
- DOES WATER FLOW UNDER THE SLOPE BARRIER?
- DO THE SILT FENCES SAG EXCESSIVELY?
- HAS THE SILT FENCE TORN OR BECOME DETACHED FROM THE POSTS?
- DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE SLOPE BARRIER?

 <p>CITY OF WICHITA PUBLIC WORKS & UTILITIES ENGINEERING DIVISION</p>			<p>SILT FENCE DITCH CHECK AND BARRIER DETAILS</p>		
<p>CITY ENGINEER GARY JANZEN, P.E.</p>					
PROJECT NUMBER		OCA NUMBER		DATE	
_____		_____		11/2010	
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501				<p>SHEET 16 22</p>	





MATERIAL SPECIFICATION:

BALE DITCH CHECKS MAY BE CONSTRUCTED OF WHEAT STRAW, OAT STRAW, PRAIRIE HAY, OR BROMEGRASS HAY THAT IS FREE OF WEEDS DECLARED NOXIOUS BY THE KANSAS STATE BOARD OF AGRICULTURE. THE STAKES USED TO ANCHOR THE BALES SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG. OPTIONAL: THE DOWNSTREAM SCOUR APRON SHOULD BE CONSTRUCTED OF A DOUBLE-NETTED STRAW EROSION-CONTROL BLANKET AT LEAST 6' WIDE. OPTIONAL: THE METAL LANDSCAPE STAPLES USED TO ANCHOR THE EROSION-CONTROL BLANKET SHOULD BE AT LEAST 8" LONG.

PLACEMENT:

BALE DITCH CHECKS SHOULD BE PLACED PERPENDICULAR TO THE FLOWLINE OF THE DITCH. THE DITCH CHECK SHOULD EXTEND FAR ENOUGH SO THAT THE GROUND LEVEL AT THE ENDS OF THE CHECK IS HIGHER THAN THE TOP OF THE LOWEST CENTER BALE. THIS PREVENTS WATER FROM FLOWING AROUND THE CHECK.

STRAW BALE DITCH CHECKS SHOULD NOT BE PLACED IN DITCHES WHERE HIGH FLOWS ARE EXPECTED. ROCK CHECKS SHOULD BE USED INSTEAD.

BALES SHOULD BE PLACED IN DITCHES WITH SLOPES OF 6% OR LESS. FOR SLOPES STEEPER THAN 6%, ROCK CHECKS SHOULD BE USED.

THE FOLLOWING TABLE PROVIDES CHECK SPACING FOR A GIVEN DITCH GRADE:

DITCH CHECK SPACING (%)	CHECK SPACING (FEET)
0.5	200
1.0	200
2.0	100
3.0	65
4.0	50
5.0	40
6.0	30

PROPER INSTALLATION METHOD:

EXCAVATE A TRENCH PERPENDICULAR TO THE DITCH FLOWLINE THAT IS 4" DEEP AND A BALE'S WIDTH WIDE. EXTEND THE TRENCH IN A STRAIGHT LINE ALONG THE ENTIRE LENGTH OF THE PROPOSED DITCH CHECK. PLACE THE SOIL ON THE UPSTREAM SIDE OF THE TRENCH-IT WILL BE USED LATER.

OPTIONAL: ON THE DOWNSTREAM SIDE OF THE TRENCH, ROLL OUT A LENGTH OF EROSION-CONTROL BLANKET (SCOUR APRON) EQUAL TO THE LENGTH OF THE TRENCH. PLACE THE UPSTREAM EDGE OF THE EROSION-CONTROL BLANKET ALONG THE BOTTOM UPSTREAM EDGE OF THE TRENCH. THE EROSION CONTROL BLANKET SHOULD BE ANCHORED IN THE TRENCH WITH ONE ROW OF 8" LANDSCAPE STAPLES PLACED ON 18" CENTERS. THE REMAINDER OF THE EROSION-CONTROL BLANKET (THE PORTION THAT IS NOT LYING IN THE TRENCH) WILL SERVE AS THE DOWNSTREAM SCOUR APRON. THIS SECTION OF THE BLANKET SHOULD BE ANCHORED TO THE GROUND WITH 8" LANDSCAPE STAPLES PLACED AROUND THE PERIMETER OF THE BLANKET ON 18" CENTERS. THE REMAINDER OF THE BLANKET SHOULD BE ANCHORED USING TWO EVENLY SPACED ROWS OF 8" LANDSCAPE STAPLES ON 18" CENTERS PLACED PERPENDICULAR TO THE FLOWLINE OF THE DITCH.

PLACE THE BALES IN THE TRENCH, MAKING SURE THAT THEY ARE BUTTED TIGHTLY. TWO STAKES SHOULD BE DRIVEN THROUGH EACH BALE ALONG THE CENTERLINE OF THE DITCH CHECK, APPROXIMATELY 6" TO 8" IN FROM THE BALE ENDS. STAKES SHOULD BE DRIVEN AT LEAST 12" INTO THE GROUND.

ONCE ALL THE BALES HAVE BEEN INSTALLED AND ANCHORED, PLACE THE EXCAVATED SOIL AGAINST THE UPSTREAM SIDE OF THE CHECK AND COMPACT IT. THE COMPACTED SOIL SHOULD BE NO MORE THAN 3" TO 4" DEEP AND EXTEND UPSTREAM NO MORE THAN 24".

LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

DO NOT PLACE A BALE DITCH CHECK DIRECTLY IN FRONT OF A CULVERT OUTLET. IT WILL NOT STAND UP TO THE CONCENTRATED FLOW.

DO NOT PLACE BALE DITCH CHECKS IN DITCHES THAT WILL LIKELY EXPERIENCE HIGH FLOWS. THEY WILL NOT STAND UP TO CONCENTRATED FLOW.

FOLLOW PRESCRIBED DITCH-CHECK SPACING GUIDELINES. IF SPACING GUIDELINES ARE EXCEEDED, EROSION WILL OCCUR BETWEEN THE DITCH CHECKS.

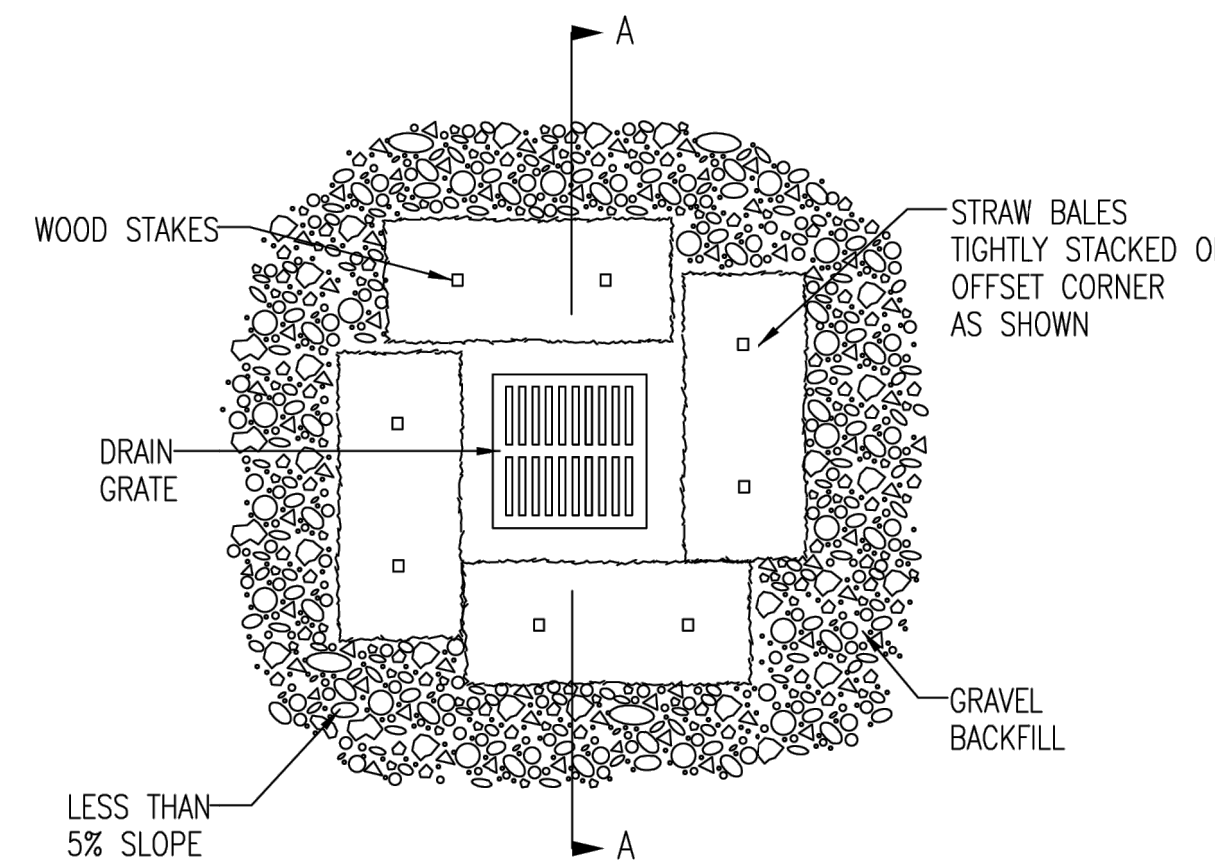
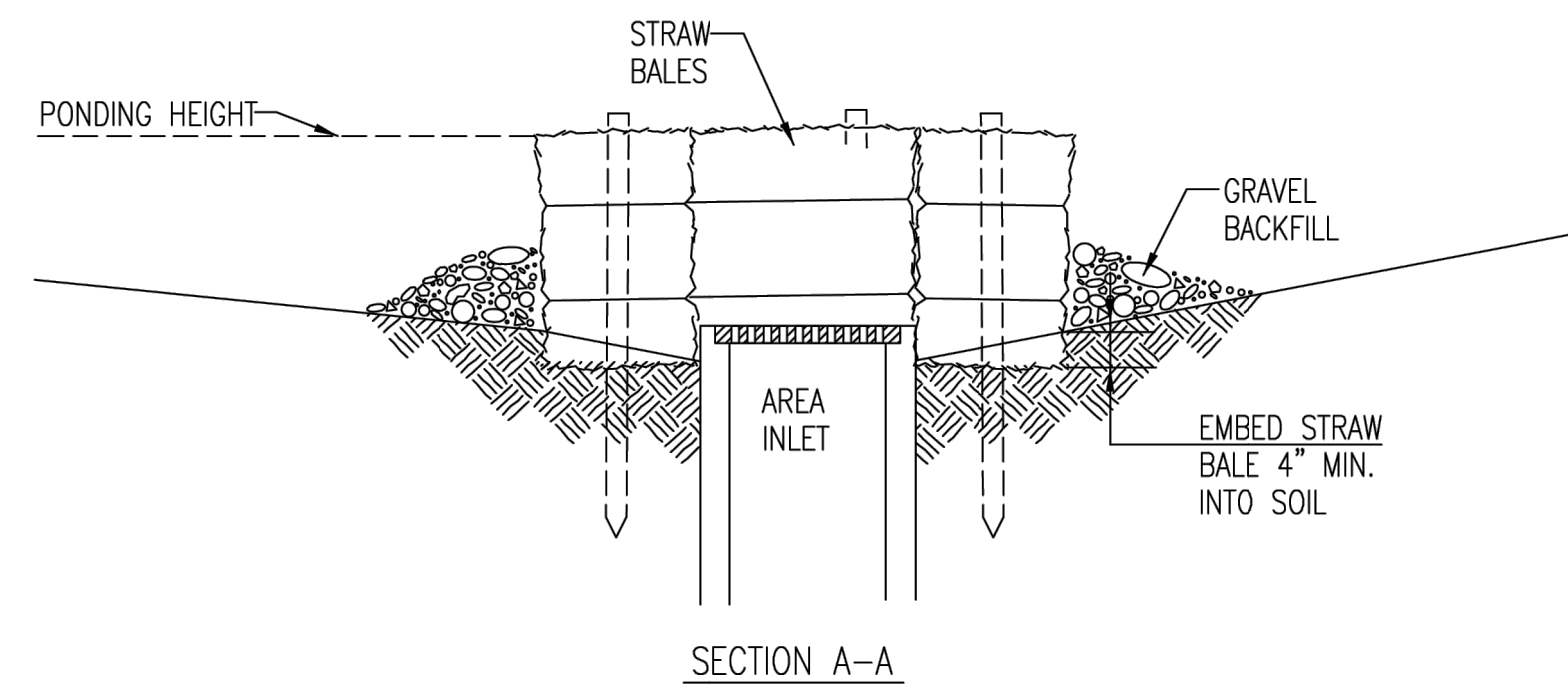
DO NOT ALLOW WATER TO FLOW AROUND THE DITCH CHECK. MAKE SURE THAT THE DITCH CHECK IS LONG ENOUGH SO THAT THE GROUND LEVEL AT THE ENDS OF THE CHECK IS HIGHER THAN THE TOP OF THE LOWEST CENTER BALE.

DO NOT PLACE BALE DITCH CHECKS IN CHANNELS WITH SHALLOW SOILS UNDERLAIN BY ROCK. IF THE CHECK IS NOT ANCHORED SUFFICIENTLY, IT WILL WASH OUT. BALE DITCH CHECKS MUST BE DUG INTO THE GROUND. BALES AT GROUND LEVEL DO NOT WORK BECAUSE THEY ALLOW WATER TO FLOW UNDER THE CHECK.

INSPECTION AND MAINTENANCE:

BALE DITCH CHECKS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

- DOES WATER FLOW AROUND THE DITCH CHECK?
- DOES WATER FLOW UNDER THE DITCH CHECK?
- DOES WATER FLOW THROUGH SPACES BETWEEN ABUTTING BALES?
- ARE ANY BALES AND/OR SCOUR APRONS (OPTIONAL) DISLODGED?
- ARE BALES DECOMPOSING DUE TO AGE AND/OR WATER DAMAGE?
- DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE DITCH CHECK?



STRAW BALE BARRIERS FOR AREA INLETS (INLET PROTECTION)

MATERIAL SPECIFICATION:

BALE AREA INLET BARRIERS SHOULD BE CONSTRUCTED OF WHEAT STRAW, OAT STRAW, PRAIRIE HAY, OR BROMEGRASS HAY THAT IS FREE OF WEEDS DECLARED NOXIOUS BY THE KANSAS STATE BOARD OF AGRICULTURE. THE STAKES USED TO ANCHOR THE BALES SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG. TWINE SHOULD BE USED TO BIND BALES. THE USE OF WIRE BINDING IS PROHIBITED BECAUSE IT DOES NOT BIODEGRADE READILY.

PLACEMENT:

BALE AREA INLET BARRIERS SHOULD BE PLACED DIRECTLY AROUND THE PERIMETER OF A DROP INLET. WHEN A BALE AREA INLET BARRIER IS LOCATED NEAR AN INLET THAT HAS STEEP APPROACH SLOPES, THE STORAGE CAPACITY BEHIND THE BARRIER IS DRASTICALLY REDUCED. TIMELY REMOVAL OF SEDIMENT MUST OCCUR FOR A BARRIER TO OPERATE PROPERLY IN THIS LOCATION.

PROPER INSTALLATION METHOD:

EXCAVATE A TRENCH AROUND THE PERIMETER OF THE AREA INLET THAT IS AT LEAST 4" DEEP BY A BALE'S WIDTH WIDE.

PLACE THE BALES IN THE TRENCH, MAKING SURE THAT THEY ARE BUTTED TIGHTLY. SOME BALES MAY NEED TO BE SHORTENED TO FIT INTO THE TRENCH AROUND THE AREA INLET. TWO STAKES SHOULD BE DRIVEN THROUGH EACH BALE, APPROXIMATELY 6" TO 8" IN FROM THE BALE ENDS. STAKES SHOULD BE DRIVEN AT LEAST 12" INTO THE GROUND.

ONCE ALL THE BALES HAVE BEEN INSTALLED AND ANCHORED, PLACE THE EXCAVATED SOIL AGAINST THE RECEIVING SIDE OF THE BARRIER AND COMPACT IT. THE COMPACTED SOIL SHOULD BE NO MORE THAN 3" TO 4" DEEP.

NOTE: WHEN A BALE AREA INLET BARRIER IS PLACED IN A SHALLOW MEDIAN DITCH, MAKE SURE THAT THE TOP OF THE BARRIER IS NOT HIGHER THAN THE PAVED ROAD. IN THIS CONFIGURATION, WATER MAY SPREAD ONTO THE ROADWAY CAUSING A HAZARDOUS CONDITION.

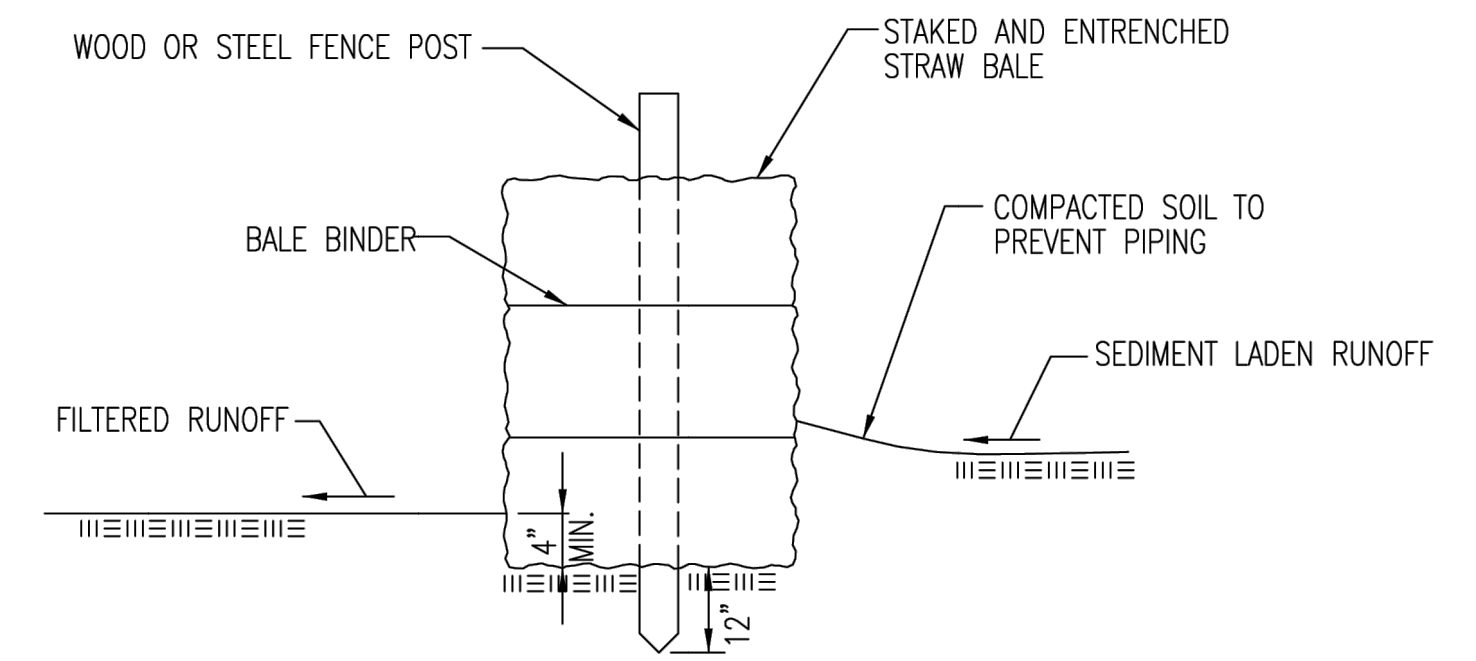
LIST OF COMMON PLACEMENT INSTALLATION MISTAKES TO AVOID:

BALES SHOULD BE PLACED DIRECTLY AGAINST THE PERIMETER OF THE AREA INLET. THIS ALLOWS OVERTOPPING WATER TO FLOW DIRECTLY INTO THE INLET INSTEAD OF ONTO NEARBY SOIL CAUSING SCOUR. BALE AREA INLET BARRIERS MUST BE DUG INTO THE GROUND. BALES AT GROUND LEVEL DO NOT WORK BECAUSE THEY ALLOW WATER TO FLOW UNDER THE BARRIER.

INSPECTION AND MAINTENANCE:

BALE AREA INLET BARRIERS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

- DOES WATER FLOW UNDER THE AREA INLET BARRIER?
- DOES WATER FLOW THROUGH SPACES BETWEEN ABUTTING BALES?
- ARE ANY BALES DISLODGED?
- ARE BALES DECOMPOSING DUE TO AGE AND/OR WATER DAMAGE?
- DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE AREA INLET BARRIER?



STRAW BALE BARRIERS

MATERIAL SPECIFICATION:

BALE SLOPE BARRIERS MAY BE CONSTRUCTED OF WHEAT STRAW, OAT STRAW, PRAIRIE HAY, OR BROMEGRASS HAY THAT IS FREE OF WEEDS DECLARED NOXIOUS BY THE KANSAS STATE BOARD OF AGRICULTURE. THE STAKES USED TO ANCHOR THE BALES SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG. TWINE SHOULD BE USED TO BIND BALES. THE USE OF WIRE BINDING IS PROHIBITED BECAUSE IT DOES NOT BIODEGRADE READILY.

PLACEMENT:

A SLOPE BARRIER SHOULD BE USED AT THE TOE OF A SLOPE WHEN A DITCH DOES NOT EXIST. THE SLOPE BARRIER SHOULD BE PLACED ON NEARLY LEVEL GROUND 5' TO 10' AWAY FROM THE TOE OF A SLOPE. THE BARRIER IS PLACED AWAY FROM THE TOE OF THE SLOPE TO PROVIDE ADEQUATE STORAGE FOR SETTLING OUT SEDIMENT.

WHEN PRACTICABLE, BALE SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. BALE SLOPE BARRIERS CAN ALSO BE PLACED ALONG RIGHT-OF-WAY FENCE LINES TO KEEP SEDIMENT FROM CROSSING ONTO ADJACENT PROPERTY. WHEN PLACED IN THIS MANNER, THE SLOPE BARRIER WILL NOT LIKELY FOLLOW CONTOURS.

PROPER INSTALLATION METHOD:

EXCAVATE A TRENCH THE LENGTH OF THE PLANNED SLOPE BARRIER THAT IS 4" DEEP AND A BALE'S WIDTH WIDE. MAKE SURE THAT THE TRENCH IS EXCAVATED ALONG A SINGLE CONTOUR. WHEN PRACTICABLE, SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. PLACE THE SOIL ON THE UPSLOPE SIDE OF THE TRENCH FOR LATER USE.

PLACE THE BALES IN THE TRENCH, MAKING SURE THAT THEY ARE BUTTED TIGHTLY. TWO STAKES SHOULD BE DRIVEN THROUGH EACH BALE ALONG THE CENTERLINE OF THE DITCH CHECK, APPROXIMATELY 6" TO 8" IN FROM THE BALE ENDS. STAKES SHOULD BE DRIVEN AT LEAST 12" INTO THE GROUND.

ONCE ALL THE BALES HAVE BEEN INSTALLED AND ANCHORED, PLACE THE EXCAVATED SOIL AGAINST THE UPSLOPE SIDE OF THE CHECK AND COMPACT IT. THE COMPACTED SOIL SHOULD BE NO MORE THAN 3" TO 4" DEEP.

LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

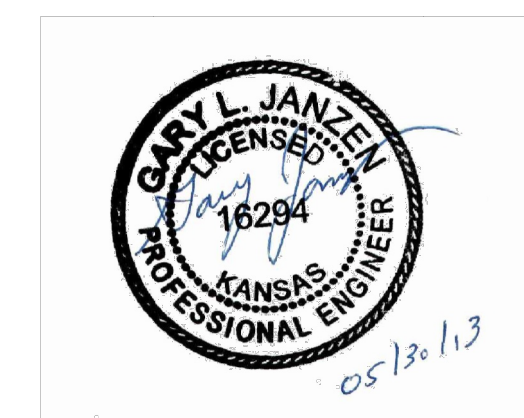
WHEN PRACTICAL, DO NOT PLACE BALE SLOPE BARRIERS ACROSS CONTOURS. SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. CONCENTRATED FLOW OVER A SLOPE BARRIER CREATES A SCOUR HOLE ON THE DOWNSLOPE SIDE OF THE BARRIER. THE SCOUR HOLE EVENTUALLY UNDERMINES THE BALES AND THE BARRIER FAILS.


DO NOT PLACE BALE SLOPE BARRIERS IN AREAS WITH SHALLOW SOILS UNDERLAIN BY ROCK. IF THE BARRIER IS NOT ANCHORED SUFFICIENTLY, IT WILL WASH OUT. BALE SLOPE BARRIERS MUST BE DUG INTO THE GROUND. BALES AT GROUND LEVEL DO NOT WORK BECAUSE THEY ALLOW WATER TO FLOW UNDER THE BARRIER.

INSPECTION AND MAINTENANCE:

BALE SLOPE BARRIERS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

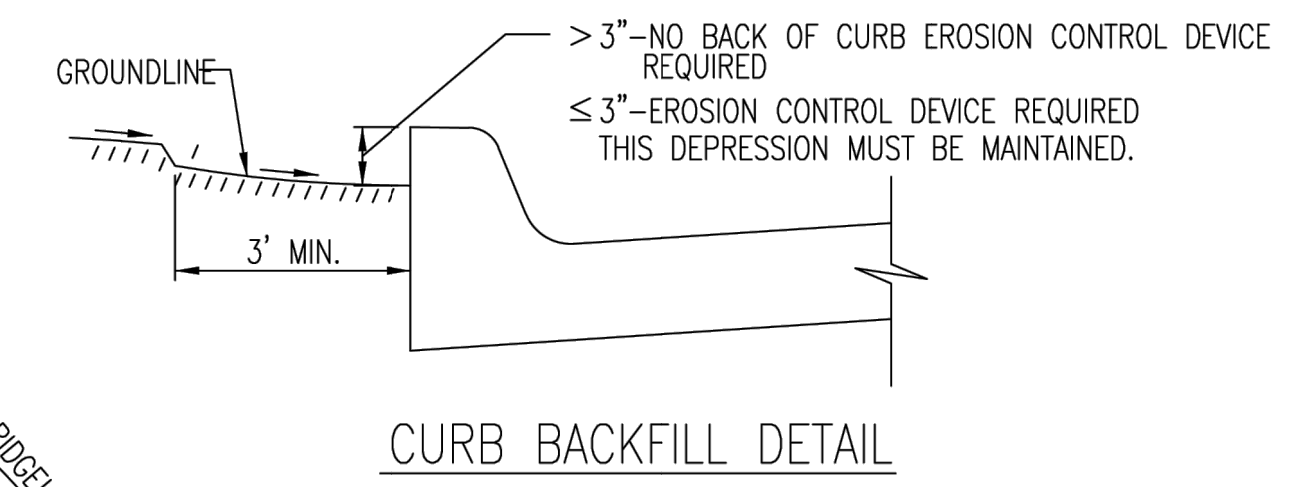
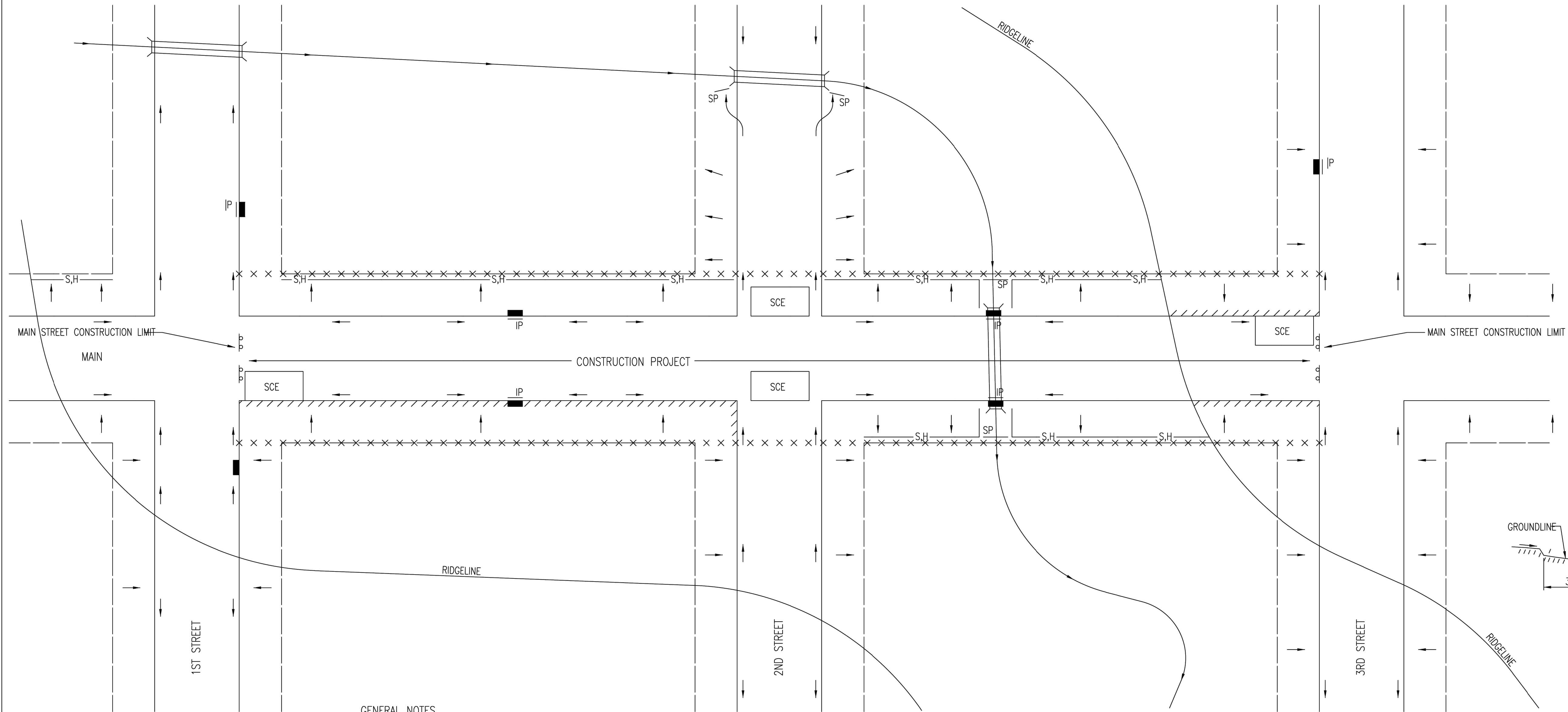
- ARE THERE ANY POINTS ALONG THE SLOPE BARRIER WHERE WATER IS CONCENTRATING?
- DOES WATER FLOW UNDER THE SLOPE BARRIER?
- DOES WATER FLOW THROUGH SPACES BETWEEN ABUTTING BALES?
- ARE ANY BALES DISLODGED?
- ARE BALES DECOMPOSING DUE TO AGE AND/OR WATER DAMAGE?
- DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE SLOPE BARRIER?



 CITY OF WICHITA PUBLIC WORKS & UTILITIES ENGINEERING DIVISION			STRAW BALE DITCH CHECK AND BARRIER DETAILS		
CITY ENGINEER GARY JANZEN, P.E.					
PROJECT NUMBER	OCA NUMBER	DATE			
		11/2010			
CITY ENGINEER'S OFFICE			SHEET		
CITY HALL - SEVENTH FLOOR			17		
455 NORTH MAIN STREET					
WICHITA, KANSAS 67202-1620					
(316) 268-4501					22

GENERAL NOTES

1. THIS SHEET IS INTENDED TO PROVIDE GUIDELINES AS TO WHAT TYPES OF EROSION CONTROL DEVICES WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS. CONTRACTORS ARE EXPECTED TO BID PROJECTS ACCORDINGLY.
2. EROSION CONTROL DEVICES MUST BE MAINTAINED BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PROCESS AND UNTIL THE DISTURBED EARTH IS RESTABILIZED.
3. IF THE PROJECT WILL DISTURB 1 ACRE OR MORE, A FEDERAL/STATE NPDES STORMWATER PERMIT IS REQUIRED. A DETAILED STORMWATER POLLUTION PREVENTION PLAN, IS REQUIRED. THE EROSION CONTROL DEVICES SHOWN ON THIS SHEET ARE CONSIDERED TO BE THE MINIMUM TO BE SHOWN IN THE POLLUTION PREVENTION PLAN.
4. FOR PROJECTS DISTURBING LESS THAN 1 ACRE, CONTRACTORS ARE ENCOURAGED TO PREPARE STORMWATER POLLUTION PREVENTION PLANS PRIOR TO CONSTRUCTION. EROSION CONTROL DEVICES MUST BE USED ON ALL PROJECTS.
5. FAILURE TO USE AND MAINTAIN EROSION CONTROL DEVICES IS A VIOLATION OF SECTION 16.32 OF THE CITY CODE AND WILL SUBJECT THE CONTRACTOR TO THE PENALTIES PROVIDED FOR THEREIN.
6. THE APPLICATION OF EROSION CONTROL DEVICES SHOWN ON THIS SHEET IS FOR SITUATIONS NORMALLY ENCOUNTERED. FROM TIME TO TIME, SITUATIONS WILL ARISE THAT MAY REQUIRE A DIFFERENT DEVICE OTHER THAN THOSE SHOWN. EROSION CONTROL DEVICES, OTHER THAN THOSE SHOWN, MAY BE UTILIZED AS LONG AS THEY ARE EFFECTIVE AND MAINTAINED.



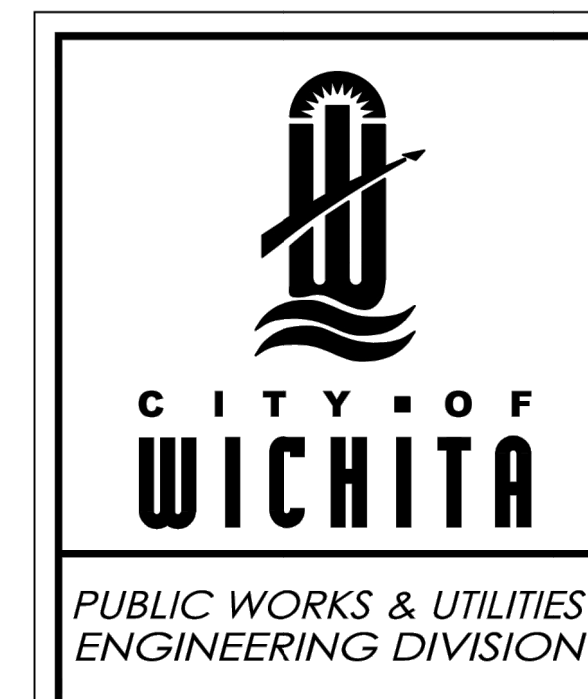
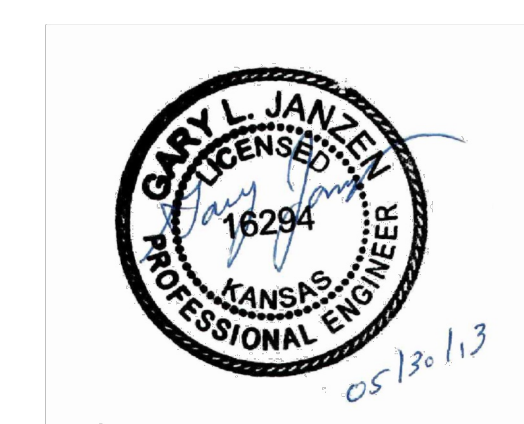
THIS IS A TEMPORARY MEASURE ONLY, WHEN APPROVED BY THE PROJECT ENGINEER. THE DIRT GRADE BEHIND THE CURB SHALL BE BROUGHT TO THE TOP OF CURB, WITH TEMPORARY EROSION CONTROL MAT OR PERMANENT VEGETATION PLACED, PRIOR TO THE COMPLETION OF ALL PROJECTS.

GENERAL NOTES

1. THE INTENT OF ALL EROSION CONTROL DEVICES IS TO KEEP ALL SEDIMENT CONFINED TO THE CONSTRUCTION SITE, AND OUT OF ALL UNDERGROUND PIPES, DITCHES, LAKES, AND OTHER DRAINAGE FACILITIES, AND OFF OF STREETS.
2. THE POINT OF COMPLIANCE IS GENERALLY THE RIGHT-OF-WAY LINES WITHIN THE LIMITS OF CONSTRUCTION.
3. EROSION CONTROL DEVICES WILL BE REQUIRED AT ALL POINTS ALONG THE PROJECT WHERE DISTURBED EARTH CAN DRAIN ONTO PRIVATE PROPERTY.
4. INLET PROTECTION DEVICES WILL BE REQUIRED WHEREVER WATER CAN DRAIN OFF THE PROJECT SITE INTO AN INLET, INCLUDING ANY SIDE STREET INLETS.
5. EROSION CONTROL DEVICES SHALL BE INSTALLED AT CREEK CROSSINGS SO AS TO PREVENT SEDIMENT FROM ENTERING THEREIN.
6. STABILIZED CONSTRUCTION ENTRANCES SHALL BE PROVIDED, AS NEEDED, TO PREVENT MUD FROM TRACKING ONTO STREETS NOT UNDER CONSTRUCTION AND ON STREETS WITHIN THE PROJECT LIMITS IF TRAFFIC IS BEING MAINTAINED THROUGH THE PROJECT.
7. ANY MUD TRACKED ONTO STREETS MUST BE REMOVED AT THE END OF EACH WORK DAY.
8. THE CONTRACTOR WILL BE REQUIRED TO PLACE EROSION CONTROL DEVICES BACK OF CURB, WHENEVER WATER CAN DRAIN OVER CURB, TO KEEP ERODED SOIL OUT OF THE GUTTERLINES, IN ACCORDANCE WITH THE FOLLOWING:
 - A. THE DEVICE REQUIRED WILL BE APPROVED EROSION CONTROL MAT LISTED ON THE CITY'S APPROVED MATERIAL LIST. SAID BLANKET SHALL BE PLACED OVER THE APPROPRIATE SEED AND FERTILIZER, AS SPECIFIED IN THE PROJECT SPECIFICATIONS. (SEE SOIL EROSION BMPs - BACK OF CURB SEDIMENT BARRIER DETAILS)
 - B. THIS DEVICE SHALL BE INSTALLED IMMEDIATELY WHENEVER THE CURB IS BACKFILLED TO WITHIN 3" OF THE TOP OF CURB. (SEE CURB BACKFILL DETAIL) OTHER BMP'S MAY BE REQUIRED AT LOCATIONS WHERE CONCENTRATED FLOW CARRIES SEDIMENT OVER THE CURB.
 - C. ADDITIONALLY, OTHER EROSION CONTROL DEVICES (HAY BALES, SILT FENCE, ETC.) WILL BE INSTALLED AT LOCATIONS OF CONCENTRATED FLOW RESULTING IN SEDIMENT OVERRUNNING THE MAT.
 - D. SHOULD THE PROJECT PLANS SPECIFY THAT THE RIGHT-OF-WAY IS TO BE SODDED, THE EXCELSIOR MAT WILL NOT BE REQUIRED SO LONG AS THE SOD IS PLACED WITHIN 48 HOURS AFTER CURB BACKFILL REACHES A HEIGHT OF 3" OR LESS FROM TOP OF CURB. (SEE CURB BACKFILL DETAIL)

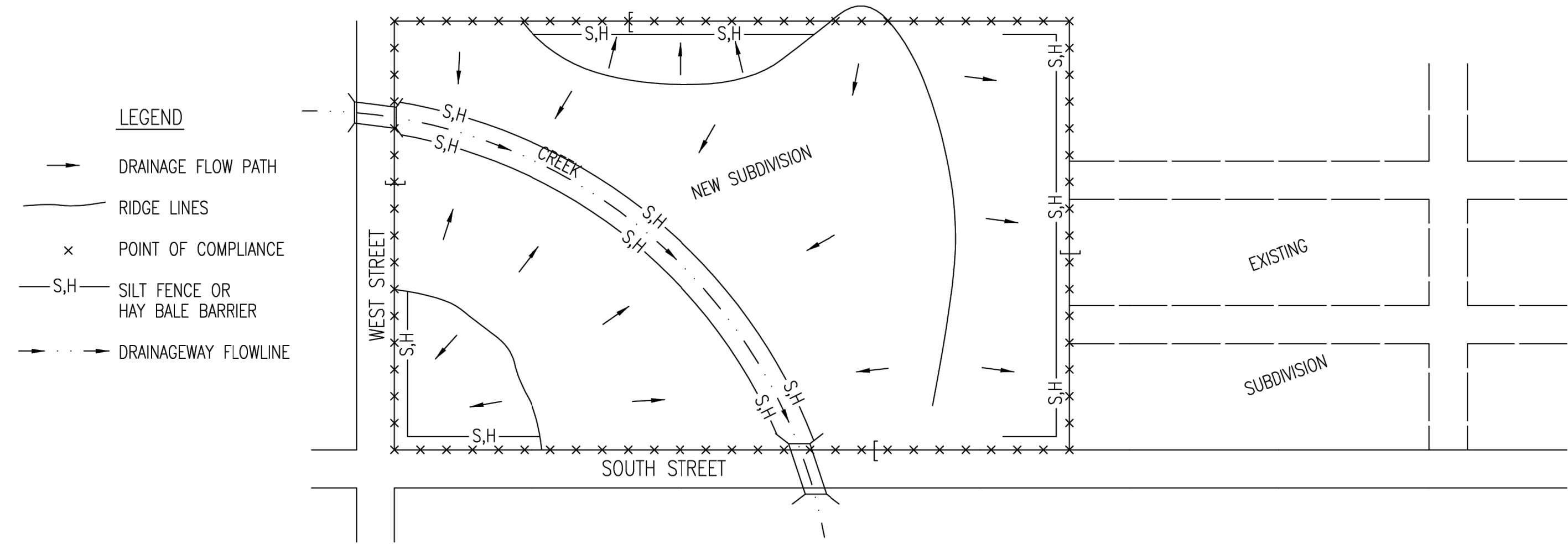
LEGEND

- R-O-W LIMITS
- DRAINAGE FLOW PATH
- × × × × × R/W LIMIT WITHIN CONSTRUCTION LIMIT
- STORM WATER INLETS
- IP INLET PROTECTION
- S,H— SILT FENCE OR HAY BALE BARRIER
- SP STREAM PROTECTION
- SCE STABILIZED CONSTRUCTION ENTRANCE
- ////// BACK OF CURB PROTECTION



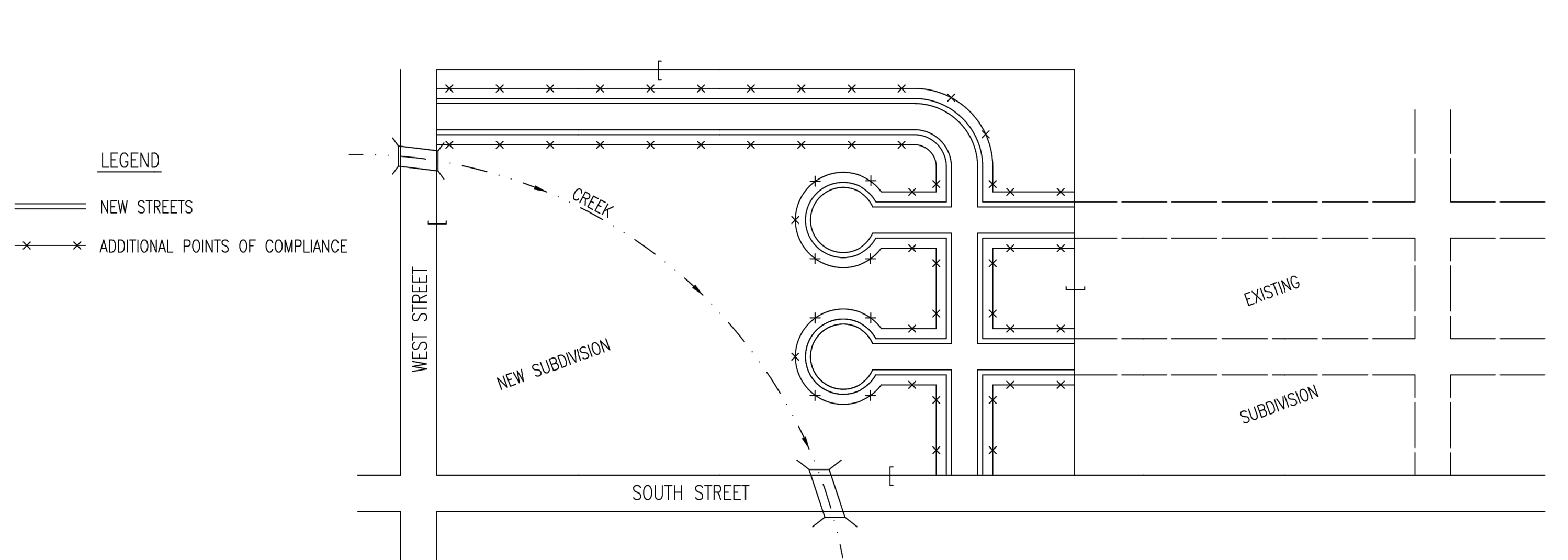
REVISION: JUNE 2015		
STREET IMPROVEMENT PROJECTS		
CITY ENGINEER GARY JANZEN, P.E.		
PROJECT NUMBER	OCA NUMBER	DATE
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		SHEET 18 22

PHASE 1 – INITIAL EARTHWORK AND UTILITIES (EXCEPT STORM SEWER)



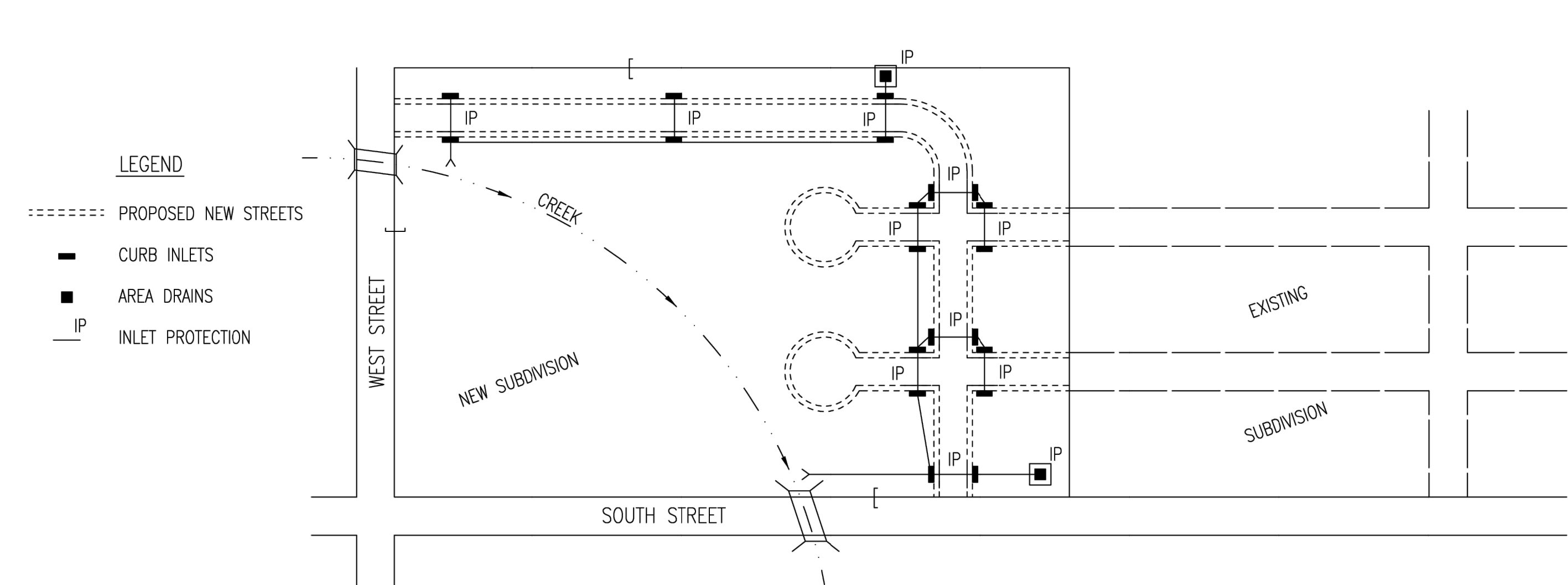
- DURING THIS PHASE OF SUBDIVISION CONSTRUCTION, THE POINTS OF COMPLIANCE ARE THE PERIMETER BOUNDARIES AND ANY DRAINAGE WAYS OR STORM SEWERS DRAINING THROUGH OR FROM THE SITE. SHOULD LAKES BE CONSTRUCTED WITHIN THE SUBDIVISION THAT WILL DISCHARGE DURING STORMS, THEY ARE ALSO A POINT OF COMPLIANCE.
- HAY BALES OR SILT FENCE MUST BE CONSTRUCTED ALONG THE PROPERTY LINE WHERE ON SITE WATER CAN DRAIN OFF THE PROPERTY. THESE EROSION CONTROL DEVICES WILL ALSO BE INSTALLED ALONG ANY DRAINAGE DITCH OR LAKE THAT CAN DISCHARGE.
- SHOULD SILT OR SEDIMENT ENTER THE DITCHES OR STREETS ON THE ADJACENT BOUNDARY STREETS, APPROPRIATE EROSION CONTROL DEVICES WILL BE PLACED WITHIN THE SUBDIVISION TO PREVENT THIS.
- ANY MUD TRACKED ONTO ADJACENT STREETS WILL BE REMOVED WITHIN 48 HOURS OR BY FRIDAY AT 6:00 PM, WHICHEVER IS EARLIER.
- CONTRACTORS WORKING WITHIN THE SITE WILL NOT BE REQUIRED TO USE INDIVIDUAL EROSION CONTROL DEVICES AS LONG AS THOSE SPECIFIED ABOVE ARE IN PLACE AND EFFECTIVE. CONTRACTORS WORKING ON THE BOUNDARY LINE STREETS OR ON ADJACENT PROPERTIES TO EXTEND UTILITIES ARE EXPECTED TO USE EROSION CONTROL DEVICES AT THEIR WORK LOCATIONS, AS NEEDED.
- UTILIZE STABILIZED CONSTRUCTION ENTRANCE AT ENTRANCE AND EXIT ONTO ANY EXISTING PUBLIC STREETS.
- IF THE INITIAL EARTH WORK AND UTILITIES ARE DONE AS PART OF A PUBLIC IMPROVEMENT PROJECT, THESE EROSION CONTROL DEVICES WILL BE INSTALLED BY THE CONTRACTOR AS SPECIFIED IN THE INDIVIDUAL PROJECT CONTRACTS. THE CONTRACTOR WILL MAINTAIN THE DEVICES UNTIL COMPLETION OF THE CONTRACT, AT WHICH TIME THE DEVELOPER WILL ASSUME MAINTENANCE RESPONSIBILITIES. IF THESE CONTRACTS ARE NOT PUBLIC IMPROVEMENT PROJECTS, THE DEVELOPER WILL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THESE DEVICES.
- WITHIN 14 DAYS OF COMPLETION OF EARTHWORK ACTIVITIES IN ANY GIVEN AREA, THAT AREA SHALL BE TEMPORARILY OR PERMANENTLY SEEDED AND MULCHED.

PHASE 3 – STREET CONSTRUCTION



- DURING THIS PHASE OF SUBDIVISION CONSTRUCTION, NEW STREETS ARE INSTALLED. ALL EROSION CONTROL DEVICES INSTALLED DURING PHASE 1 AND 2 MUST STILL BE MAINTAINED. THE POINT OF COMPLIANCE NOW SHIFTS TO THE BACK OF CURB ALONG EACH STREET.
- CURB OPENING INLET PROTECTION:
 - SUMP AREAS – INLET PROTECTION SHALL BE PROVIDED WHEN STREET SUBGRADE WORK IS COMPLETED.
 - NON-SUMP LOCATIONS – PROVIDE INLET PROTECTION AS SOON AS BASE COURSE ASPHALT IS INSTALLED, BEFORE THE SURFACE COURSE LIFT.
- EROSION CONTROL DEVICES WILL BE REQUIRED BACK OF CURB WHEREVER WATER CAN FLOW OVER THE CURB AND THE CURB HAS BEEN BACKFILLED TO WITHIN 3" OR LESS OF THE TOP OF CURB (SEE CURB BACKFILL DETAIL). FOR CURBS NOT YET ENTIRELY BACKFILLED (3" OR MORE BELOW TOP OF CURB), ADDITIONAL DEVICES WILL BE REQUIRED AT POINTS WHERE WATER BREAKS OVER CURB WHICH COULD RESULT IN THE PLACEMENT OF SEDIMENT IN THE GUTTER.
- SEE DETAIL SHEET FOR BACK OF CURB PROTECTION.
- THE BACK OF CURB PROTECTION SPECIFIED ON THIS PLAN MAY HAVE TO BE SUPPLEMENTED WITH HAY BALE OR SILT FENCE EROSION CONTROL DEVICES AT LOCATIONS WHERE CONCENTRATED FLOW RESULTS IN SEDIMENT BEING CARRIED OVER THE EXCELSIOR MATS.
- THE STREET CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING BACK OF CURB EROSION CONTROL DEVICES.
- THE INDIVIDUAL LOT OWNERS WILL BE RESPONSIBLE FOR MAINTAINING THE BACK OF CURB EROSION CONTROL DEVICES IN FRONT OF THEIR LOTS UNTIL SUCH TIME AS ADJACENT DISTURBED EARTH IS STABILIZED WITH GRASS OR SOD.

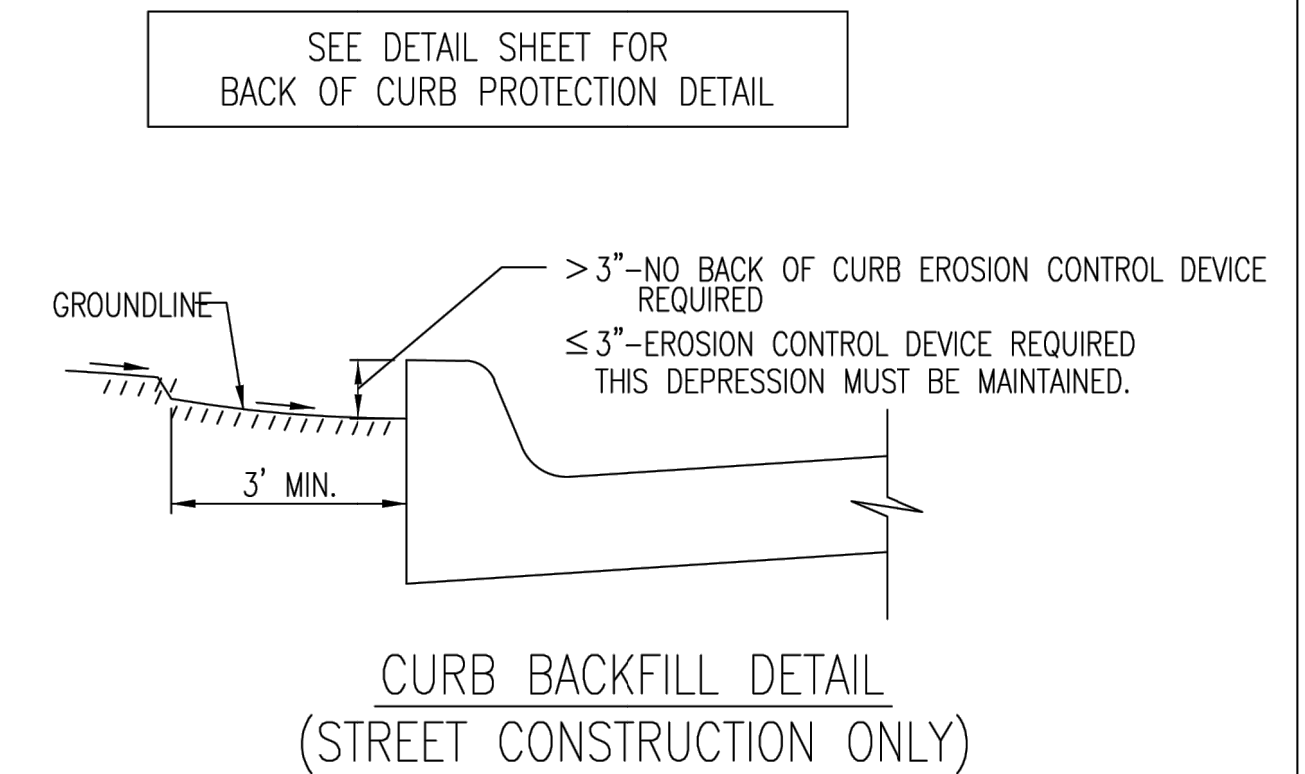
PHASE 2 – INSTALLATION OF STORM SEWER



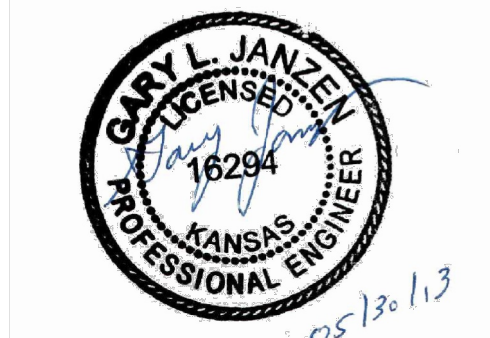
- DURING THIS PHASE OF SUBDIVISION DEVELOPMENT, ALL EROSION CONTROL DEVICES REQUIRED IN PHASE 1 SHALL REMAIN IN PLACE AND BE MAINTAINED.
- AS NEW STORM SEWERS, WITH INLETS, ARE INSTALLED, THE STORM SEWERS MUST NOW BE PROTECTED SO ALL NEW INLETS BECOME POINTS OF COMPLIANCE.
- AREA DRAINS – AS SOON AS WATER CAN FLOW INTO THESE DRAINS, HAY BALE OR SILT FENCE PROTECTION WILL BE INSTALLED AROUND THEM.
- CURB OPENING INLETS – AS SOON AS WATER CAN FLOW INTO THESE DRAINS, INLET PROTECTION DEVICES MUST BE INSTALLED. IF WATER CANNOT FLOW INTO CURB INLETS UNTIL STREET CONSTRUCTION IS COMPLETE, THEN STREET CONTRACTOR WILL INSTALL INLET PROTECTION. SEE PHASE 3 – STREET CONSTRUCTION.
- THE STORM SEWER CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING THESE DEVICES.
- THE SUBDIVISION DEVELOPER WILL MAINTAIN THESE EROSION CONTROL DEVICES ONCE INSTALLED.
- ALL DISTURBED GROUND WILL BE FINAL GRADED AND TEMPORARILY OR PERMANENTLY SEEDED WITHIN 14 DAYS IF COMPLETION OF WORK IN ANY GIVEN PART OF THE SUBDIVISION.
- ONCE ALL DISTURBED GROUND DRAINING TO AN INLET HAS BEEN RESTABILIZED WITH GRASS OR SOD, THE SUBDIVISION DEVELOPER WILL BE RESPONSIBLE FOR PERMANENTLY REMOVING THE INLET PROTECTION.

GENERAL NOTES

- THE INTENT OF ALL EROSION CONTROL DEVICES IS TO PREVENT ERODED SOIL FROM ENTERING DITCHES, STORM SEWERS, LAKES, STREETS OR ANY OTHER OTHER DRAINAGE FEATURE.
- THIS SHEET IS INTENDED TO PROVIDE GUIDELINES AS TO WHAT TYPE OF EROSION CONTROL DEVICES WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS. CONTRACTORS ARE EXPECTED TO BID PROJECTS ACCORDINGLY.
- EROSION CONTROL DEVICES SHALL BE MAINTAINED DURING THE CONSTRUCTION PROCESS TO REMAIN EFFECTIVE. MAINTENANCE SHALL BE AS INDICATED ON SOIL EROSION BMP'S DETAIL SHEETS.
- PERSONS DESTROYING EROSION CONTROL DEVICES SHALL BE RESPONSIBLE FOR IMMEDIATELY REPAIRING THEM OR INSTALLING SUITABLE REPLACEMENT DEVICES.
- THE DEVELOPMENT OF ANY SUBDIVISION THAT DISTURBS 1 ACRE OR MORE WILL REQUIRE A FEDERAL/STATE NPDES STORMWATER PERMIT. THE PREPARATION OF A STORMWATER POLLUTION PREVENTION PLAN IS REQUIRED. EROSION CONTROL DEVICES ARE REQUIRED. THE DETAILS SHOWN ON THIS SHEET ARE THE MINIMUM STANDARDS TO BE SHOWN ON POLLUTION PREVENTION PLANS.
- FOR SUBDIVISIONS SMALLER THAN 1 ACRE, SOIL EROSION DEVICES ARE REQUIRED. ALSO, DEVELOPERS AND CONTRACTORS ARE ENCOURAGED TO DEVELOP POLLUTION PREVENTION PLANS FOR EACH PROJECT PRIOR TO CONSTRUCTION.
- FAILURE TO USE AND MAINTAIN SOIL EROSION DEVICES IS A VIOLATION OF SECTION 16.32 OF THE CITY CODE AND WILL SUBJECT THE SUBDIVISION DEVELOPER AND CONTRACTORS TO THE PENALTIES PROVIDED THEREIN.
- THE APPLICATION OF EROSION CONTROL DEVICES SHOWN ON THIS SHEET IS FOR SITUATIONS NORMALLY ENCOUNTERED. FROM TIME TO TIME, SITUATIONS WILL ARISE THAT MAY REQUIRE DEVICES OTHER THAN THAT SHOWN. EROSION CONTROL DEVICES, OTHER THAN THOSE SHOWN, MAY BE UTILIZED SO LONG AS THEY ARE EFFECTIVE AND MAINTAINED.
- A STABILIZED EARTH SURFACE IS DEFINED AS ONE THAT IS HARD SURFACED WITH CONCRETE, ASPHALT, OR THE LIKE, OR ONE ON WHICH 70% OF THE GRASS HAS GERMINATED ON THE ENTIRE SURFACE.



THIS IS A TEMPORARY MEASURE ONLY, WHEN APPROVED BY THE PROJECT ENGINEER. THE DIRT GRADE BEHIND THE CURB SHALL BE BROUGHT TO THE TOP OF CURB, WITH TEMPORARY EROSION CONTROL MAT OR PERMANENT VEGETATION PLACED, PRIOR TO THE COMPLETION OF ALL PROJECTS.

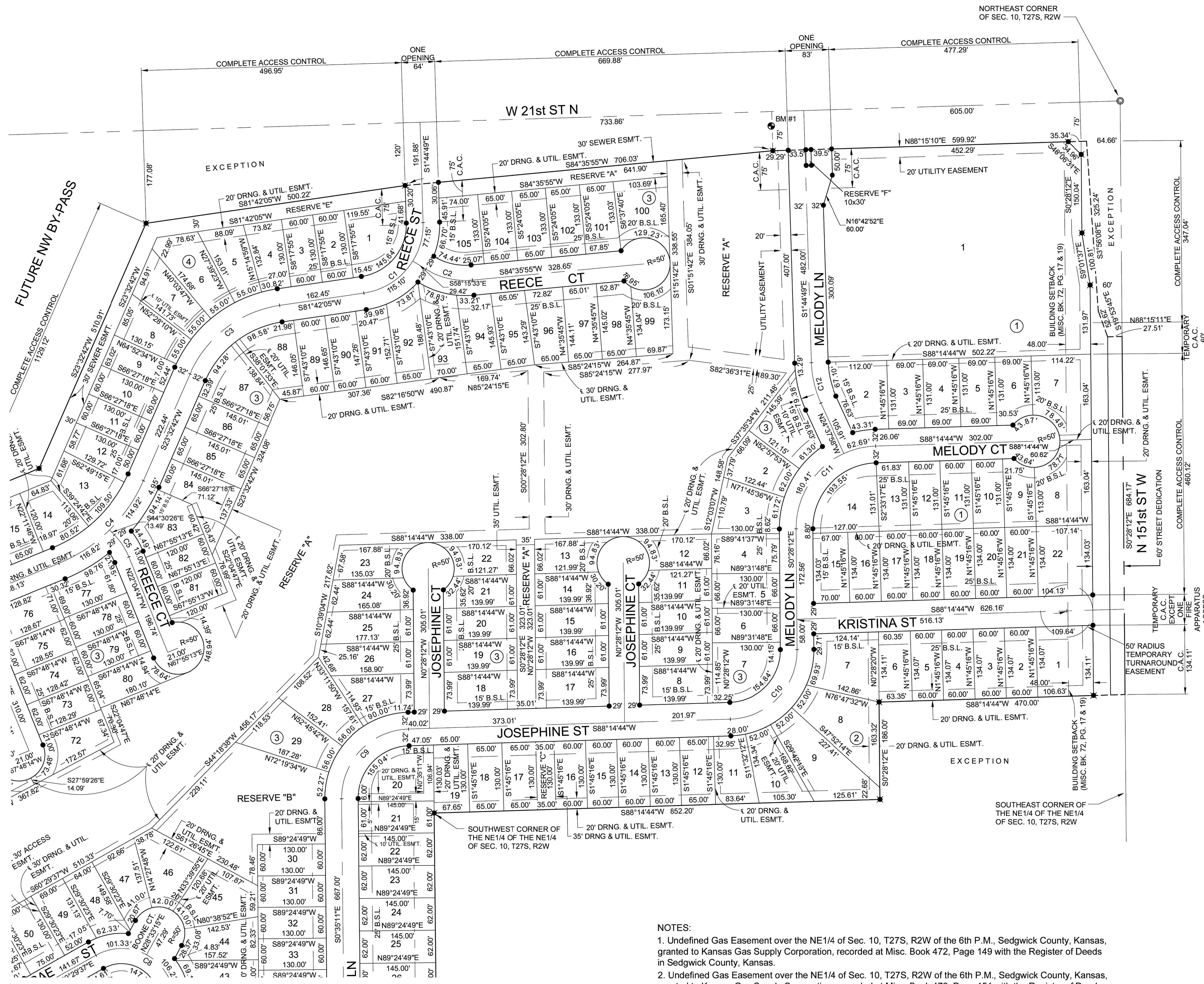


CITY OF WICHITA
PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

SUBDIVISION DEVELOPMENT PROCESS		
CITY ENGINEER GARY JANZEN, P.E.		
PROJECT NUMBER	OCA NUMBER	DATE
		08/2012
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		SHEET 19 22

AREA 151

Wichita, Sedgwick County, Kansas



BENCHMARK #1: CHISELED SQUARE WITH DIVOT ON THE NORTHEAST CORNER OF A CULVERT HEADWALL ON THE SOUTH SIDE OF 21ST STREET NORTH, 668 FEET WEST OF 151ST STREET WEST
ELEVATION = 1368.00 (NAVD88, G18)

BENCHMARK #2: CHISELED SQUARE WITH DIVOT ON THE SOUTHWEST CORNER OF BRIDGE HEADWALL ON THE SOUTH SIDE OF 21ST STREET NORTH, 1252 FEET EAST OF 151ST STREET WEST
ELEVATION = 1365.98 (NAVD88, G18)

(BASIS) = Basis of Bearings = Kansas Coordinate System of 1983 South Zone Grid Bearing

M = Measured
C = Calculated
D = Described
B.S.L. = Building Setback Line
C.A.C. = Complete Access Control

SURVEY MARKER LEGEND

- ⊕ STONE (GOVERNMENT CORNER)
- 1/2" IRON PIPE (FOUND - ORIGIN UNKNOWN)
- 1/2" REBAR (FOUND - ORIGIN UNKNOWN)
- 3/4" IRON PIPE W/CAP (FOUND - ORIGIN UNKNOWN)
- 1/2" REBAR W/GARVER CAP (SET)
- BENCHMARK
- MONUMENT TO BE SET WITH STREET CONSTRUCTION PROJECT BY THE STREET DESIGNER

MINIMUM BUILDING PAD ELEVATION FOR LOWEST OPENING INTO STRUCTURES FOR ALL LOTS EXCEPT THOSE LISTED BELOW = 1372.5 (NAVD88)

THOSE LOTS EXEMPTED FROM A MINIMUM PAD ELEVATION ARE:
LOTS 5 - 10, BLOCK 1
LOTS 20 - 22, BLOCK 1
AND LOTS 1 - 3, BLOCK 2

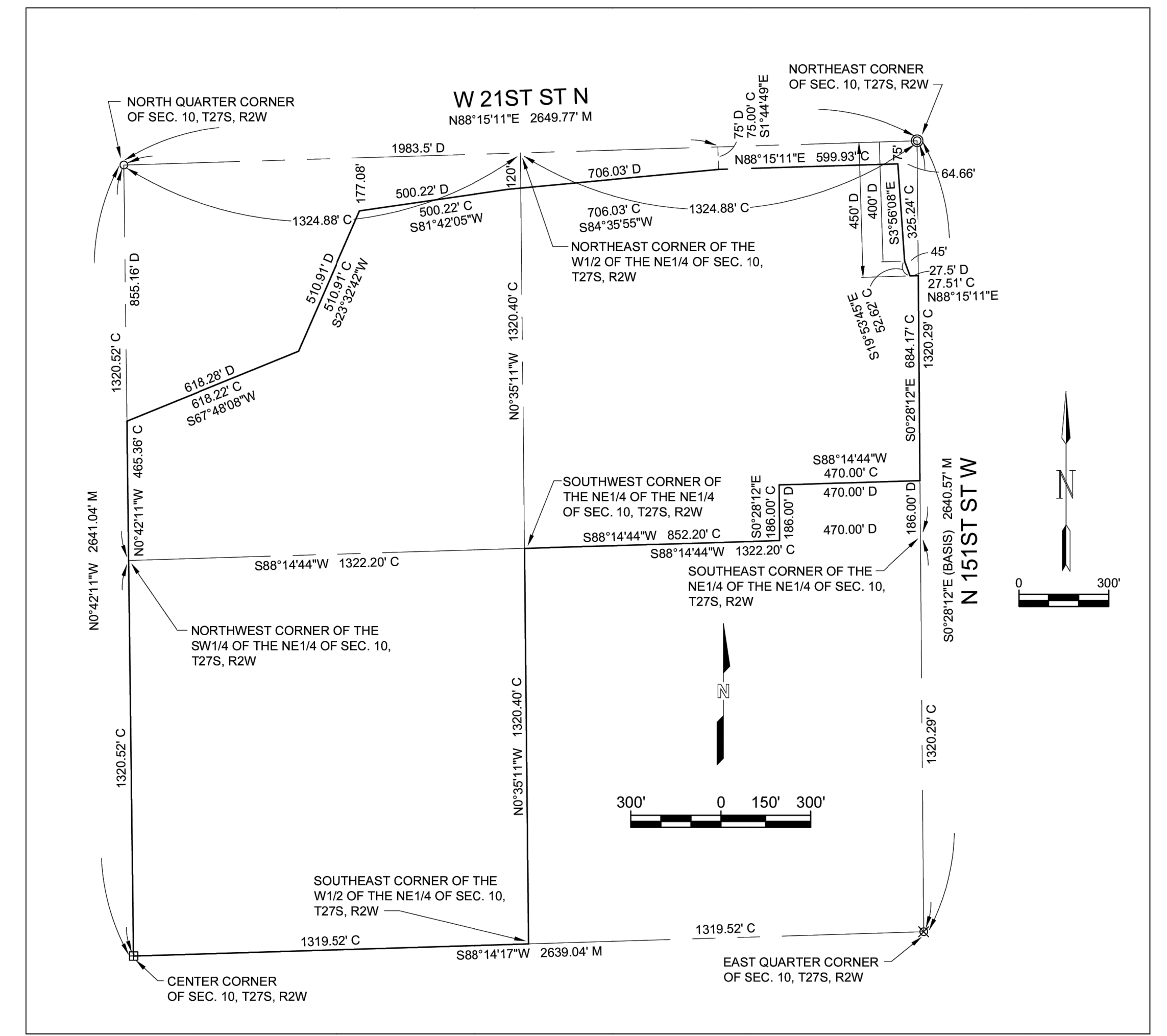
- NOTES:**
- Undefined Gas Easement over the NE 1/4 of Sec. 10, T27S, R2W of the 6th P.M., Sedgwick County, Kansas, granted to Kansas Gas Supply Corporation, recorded at Misc. Book 472, Page 149 with the Register of Deeds in Sedgwick County, Kansas.
 - Undefined Gas Easement over the NE 1/4 of Sec. 10, T27S, R2W of the 6th P.M., Sedgwick County, Kansas, granted to Kansas Gas Supply Corporation, recorded at Misc. Book 472, Page 151 with the Register of Deeds in Sedgwick County, Kansas.
 - All interior side-yard building setbacks will be 5 feet.

FOR INFORMATION ONLY



AREA 151

Wichita, Sedgwick County, Kansas



- (BASIS) = Basis of Bearings = Kansas Coordinate System of 1983 South Zone Grid Bearing
- M = Measured
 - C = Calculated
 - D = Described
 - B.S.L. = Building Setback Line
 - C.A.C. = Complete Access Control
- SURVEY MARKER LEGEND**
- ⊕ STONE (GOVERNMENT CORNER)
 - 1/2" IRON PIPE (FOUND - ORIGIN UNKNOWN)
 - ⊗ 1/2" REBAR (FOUND - ORIGIN UNKNOWN)
 - ⊙ 3/4" IRON PIPE W/CAP (FOUND - ORIGIN UNKNOWN)
 - ⊕ 1/2" REBAR W/GARVER CAP (SET)
 - ⊙ BENCHMARK
 - ⊕ MONUMENT TO BE SET WITH STREET CONSTRUCTION PROJECT BY THE STREET DESIGNER

BENCHMARK #1: CHISELED SQUARE WITH DIVOT ON THE NORTHEAST CORNER OF A CULVERT HEADWALL ON THE SOUTH SIDE OF 21ST STREET NORTH, 668 FEET WEST OF 151ST STREET WEST
ELEVATION = 1368.00 (NAVD88, G18)

BENCHMARK #2: CHISELED SQUARE WITH DIVOT ON SOUTHWEST CORNER OF BRIDGE HEADWALL ON THE SOUTH SIDE OF 21ST STREET NORTH, 1252 FEET EAST OF 151ST STREET WEST
ELEVATION = 1365.98 (NAVD88, G18)

FOR INFORMATION ONLY



GARVER
1995 MIDFIELD RD.
Wichita, KS 67209
(316) 264-8008
www.GarverUSA.com

DWG FILE: 22S04021 SURVEY BASE
PROJECT NO. 22S04021
MARCH 17, 2023

AREA 151

Wichita, Sedgwick County, Kansas

Block #	Lot #	Area SF
B1L1	201055.98	
B1L2	12686.91	
B1L3	9039.00	
B1L4	9039.00	
B1L5	9039.00	
B1L6	8557.32	
B1L7	16359.61	
B1L8	15789.48	
B1L9	7382.40	
B1L10	7860.00	
B1L11	7860.00	
B1L12	7860.00	
B1L13	7979.83	
B1L14	13142.29	
B1L15	9178.69	
B1L16	8040.00	
B1L17	8040.00	
B1L18	8040.00	
B1L19	8040.00	
B1L20	8040.00	

Block #	Lot #	Area SF
B1L21	8040.00	
B1L22	14155.30	
B2L1	14498.37	
B2L2	8044.39	
B2L3	8044.39	
B2L4	8044.39	
B2L5	8044.39	
B2L6	8292.39	
B2L7	14949.61	
B2L8	17077.66	
B2L9	17468.12	
B2L10	11215.03	
B2L11	9439.09	
B2L12	8450.00	
B2L13	7800.00	
B2L14	7800.00	
B2L15	7800.00	
B2L16	7800.00	
B2L17	8450.00	
B2L18	8450.00	

Block #	Lot #	Area SF
B2L19	8622.28	
B2L20	13245.57	
B2L21	8845.00	
B2L22	8990.00	
B2L23	8990.00	
B2L24	8990.00	
B2L25	8990.00	
B2L26	8990.00	
B2L27	8990.00	
B2L28	8990.00	
B2L29	8990.00	
B2L30	10440.00	
B3L1	12333.51	
B3L2	10239.80	
B3L3	11099.65	
B3L4	9876.89	
B3L5	8580.00	
B3L6	8580.00	
B3L7	12704.45	
B3L8	10355.97	

Block #	Lot #	Area SF
B3L9	8537.41	
B3L10	8537.41	
B3L11	8244.21	
B3L12	8429.53	
B3L13	8379.22	
B3L14	8275.66	
B3L15	8537.41	
B3L16	8537.41	
B3L17	10355.97	
B3L18	10355.97	
B3L19	8537.41	
B3L20	8537.41	
B3L21	8244.21	
B3L22	8429.53	
B3L23	8809.47	
B3L24	9438.13	
B3L25	10434.58	
B3L26	10618.09	
B3L27	10862.71	
B3L28	12446.17	

Block #	Lot #	Area SF
B3L29	14017.94	
B3L30	7800.00	
B3L31	7800.00	
B3L32	7800.00	
B3L33	7800.00	
B3L34	7800.00	
B3L35	7800.00	
B3L36	7800.00	
B3L37	7800.00	
B3L38	8970.00	
B3L39	9709.00	
B3L40	8512.00	
B3L41	8512.00	
B3L42	8514.05	
B3L43	9102.62	
B3L44	10483.39	
B3L45	13776.99	
B3L46	12882.83	
B3L47	10137.67	
B3L48	9018.88	

Block #	Lot #	Area SF
B3L49	8976.36	
B3L50	9750.00	
B3L51	11666.34	
B3L52	15528.35	
B3L53	10640.86	
B3L54	9310.00	
B3L55	10507.00	
B3L56	9360.00	
B3L57	8190.00	
B3L58	8190.00	
B3L59	8190.00	
B3L60	9236.85	
B3L61	8813.96	
B3L62	10242.44	
B3L63	10229.50	
B3L64	9452.82	
B3L65	8676.13	
B3L66	15544.58	
B3L67	9181.59	
B3L68	8778.13	

Block #	Lot #	Area SF
B3L69	9458.79	
B3L70	9112.85	
B3L71	13029.38	
B3L72	10516.84	
B3L73	7958.18	
B3L74	7965.99	
B3L75	7973.81	
B3L76	9140.89	
B3L77	9456.24	
B3L78	7800.02	
B3L79	7800.02	
B3L80	8994.63	
B3L81	7200.00	
B3L82	7200.00	
B3L83	10227.98	
B3L84	12099.51	
B3L85	9425.73	
B3L86	9425.73	
B3L87	13105.43	
B3L88	11904.16	

Block #	Lot #	Area SF
B3L89	8780.92	
B3L90	8817.32	
B3L91	8917.19	
B3L92	10821.08	
B3L93	11604.02	
B3L94	9605.34	
B3L95	9399.64	
B3L96	9896.21	
B3L97	9396.56	
B3L98	9375.74	
B3L99	9690.54	
B3L100	11970.84	
B3L101	8834.31	
B3L102	8645.00	
B3L103	8645.00	
B3L104	8645.00	
B3L105	10466.05	
B4L1	12936.20	
B4L2	7800.00	
B4L3	7800.00	

State of Kansas)
SS
Sedgwick County)

We, Garver, LLC, Land Surveyors in aforesaid county and state, do hereby certify that, under the supervision of the undersigned, we have surveyed and platted "AREA 151", Wichita, Sedgwick County, Kansas, and that the accompanying plat is a true and correct exhibit of the property surveyed, described as follows:

Parcel 1:
The Northeast Quarter of the Northeast Quarter of Section 10, Township 27 South, Range 2 West of the 6th P.M., Sedgwick County, Kansas, EXCEPT a tract of land described as beginning at the Northeast corner of the Northeast Quarter of the Northeast Quarter of Section 10, Township 27 South, Range 2 West; thence West along the North line of the Northeast Quarter of the Northeast Quarter, a distance of 1324.80 feet; thence South and parallel to the East line of the Northeast Quarter, a distance of 70 feet; thence East and parallel to the North line of the Northeast Quarter; to a point 914.66 feet West and 70 feet South of the Northeast corner of the Northeast Quarter; thence Easterly to a point 664.44 feet West and 75 feet South of the Northeast corner of the Northeast Quarter; thence Easterly to a point 64.66 feet West and 75 feet South of the Northeast corner of the Northeast Quarter; thence Southerly to a point 400 feet South and 45 feet West of the Northeast corner of the Northeast Quarter; thence Southerly to a point 450 feet South and 27.5 feet West of the Northeast corner of the Northeast Quarter; thence East and parallel to the North line of the Northeast Quarter, to a point on the East line of the Northeast Quarter, 450 feet South of the point of beginning; thence North along the East line of the Northeast Quarter of Section 10 to the point of beginning, EXCEPT that part of the Northeast Quarter of the Northeast Quarter of Section 10, Township 27 South, Range 2 West of the 6th P.M., Sedgwick County, Kansas, described as Beginning at the Southeast corner thereof; thence North along the East line of said Northeast Quarter, 186 feet; thence West parallel with the South line of said Northeast Quarter, 470 feet; thence South parallel with said East line, 186 feet to the South line of said Northeast Quarter; thence East along the South line of said Northeast Quarter, 470 feet to the point of beginning, AND EXCEPT that part deeded to The Secretary of Transportation of the State of Kansas for road in Doc.#/Flm-Pg: 30093166.

Parcel 2:
The West Half of the Northeast Quarter of Section 10, Township 27 South, Range 2 West of the 6th P.M., Sedgwick County, Kansas, EXCEPT the West 160 feet of the North 342 feet thereof, EXCEPT the South 40 feet of the North 70 feet thereof, AND EXCEPT that part deeded to The Secretary of Transportation of the State of Kansas for road in Doc.#/Flm-Pg: 30093166.

All public easements and dedications are hereby vacated by virtue of K.S.A. 12-512b, as amended.

Garver, LLC
Land Surveyor
William K. Clevenger, PS #1437

Know all men by these presents that we, the undersigned, have caused the land described in the surveyor's certificate to be platted into Lots, Blocks, Reserves and Streets, to be known as "AREA 151", Wichita, Sedgwick County, Kansas. The utility easements are hereby granted to the public as indicated for the construction and maintenance of all public utilities. The drainage easements are hereby granted to the public as indicated for drainage purposes and for the construction and maintenance of all public utilities. The sewer easements are hereby granted to the public as indicated for the construction and maintenance of all sewer facilities. The Access Easements are hereby granted to the Homeowners Association for the construction and maintenance of pedestrian paths for use of the residents. No sign, light poles, private drainage systems, berms, walls masonry trash enclosures or other structures shall be located within public utility easements unless permitted by the City of Wichita Department of Engineering and that they do not inhibit the conveyance of surface drainage. The fire apparatus access road surface, gating apparatus and sign installation shall meet the minimum standards for a Fire Apparatus Access Road required by the City of Wichita Fire Department. The Developer shall be responsible for the installation of the surface, gating apparatus and sign within the fire apparatus access road. The Lot Owners Association shall be responsible for the continued maintenance of the fire apparatus access road. The City of Wichita is hereby granted the right to enter upon such premises at any time for the purposes of constructing, maintaining, and repairing such fire apparatus access road. No private drainage systems shall be located within public drainage easements unless a Residential Drainage Relief Permit is obtained from the City of Wichita Public Works & Utilities Department. Access Controls as indicated are hereby granted to the appropriate governing body. The Temporary Access Controls will each convert to one opening upon the paving of the adjoining North 151st Street West. The streets are hereby dedicated to and for the use of the public. No obstructions shall be constructed or placed within street stubs providing future access to adjacent properties. The Temporary turnaround easements on Kristina St, Cody Ln and Reese St are hereby granted for the use of the public, and will expire upon extension of the streets beyond the limits of this plat. Reserve "A" and "D" are hereby reserved for irrigation, walls, signage, walks, lighting, landscaping, berms, lakes, drainage, drainage structures, and utilities confined to easements. Reserve "B" is hereby reserved for irrigation, signage, landscaping, lighting, park improvements, a club house, swimming pool, walks, drainage, and utilities confined to easements. Reserve "C" is hereby reserved for landscaping, drainage and utilities. Reserve "E" is hereby reserved for irrigation, landscaping, walks and sanitary sewer improvements. Reserve "F" is hereby reserved for irrigation, signage, entry features, landscaping, and and utilities confined to easements. The Reserves are to be owned and maintained by the Home Owners Association for the addition, their successors and/or assigns. No regrading within abutting rights-of-way shall be allowed with the construction of the berms allowed within Reserves A and D. The berms cannot impact access to or bury manholes, water valves and/or water meters. Minimum Pad Elevations for lowest openings are as shown on the accompanying table. A master drainage plan has been developed for this plat. All drainage easements, rights of way and reserves shall remain at established grades (unless modified with the approval of the City Engineer) and shall be unobstructed to allow for the conveyance of stormwater in accordance with the Stormwater Manual. FEMA floodplain and regulatory floodway boundaries are subject to periodic change, and such change may affect the intended land use within the subdivision. The maintenance of all drainageways and drainage facilities in backyard easements and reserves shall be the responsibility of the property owner, and shall be enforced by the Homeowners' Association and be provided for in the Homeowners' Association covenants. Compliance with any platted restrictions and applicable restrictive covenants affecting said Reserves shall be binding on any owners, successors, heirs or assigns.

We the undersigned, holders of a mortgage on a portion of the above described property, do hereby consent to this plat of "AREA 151", Wichita, Sedgwick County, Kansas.

Emprise Bank, N.A.
Senior Vice President
Lori Newell

State of Kansas)
SS
Sedgwick County)

The foregoing instrument acknowledged before me this ____ day of _____, 2023, by Lori Newell, Senior Vice President, on behalf of Emprise Bank.

My appointment expires _____.

This plat of "AREA 151", Wichita, Sedgwick County, Kansas, has been submitted to and approved by the Wichita-Sedgwick County Metropolitan Area Planning Commission, Wichita, Kansas.

Dated this ____ day of _____, 2023.

Wichita-Sedgwick County Metropolitan Area Planning Commission
Chair
Ann M. Fox
Secretary
Scott A. Wadle

This plat approved and all dedications shown hereon accepted by the City Council of the City of Wichita, Kansas, this ____ day of _____, 2023.

At the Direction of the City Council
Mayor
Brandon J. Whipple
City Clerk
Jamie Buster

Area 151, LLC.

Reviewed in accordance with K.S.A. 58-2005 on this ____ day of _____, 2023.

State of Kansas)
SS
Sedgwick County)
Deputy County Surveyor
Sedgwick County Kansas
Tricia L. Robello, PS #1246

The foregoing instrument acknowledged before me, this ____ day of _____, 2023, Ryan Wayne Nett, Co-Manager, on behalf of Area 151, LLC.

Notary Public
Marsha R. Bishop

My appointment expires _____.

Block #	Lot #	Area SF
RESERVE C	4550.00	
RESERVE D	11298.56	
RESERVE E	48871.51	
RESERVE F	300.00	

Curve Table					
Curve #	Length	Radius	Delta	Chord Direction	Chord Length
C1	192.25	132.00	83.45	N39° 58' 38"E	175.70
C2	93.24	143.84	37.14	S76° 49' 49"E	91.62
C3	225.33	222.00	58.16	S52° 37' 23"W	215.79
C4	231.74	300.00	44.26	N45° 40' 28"E	226.02
C5	50.49	129.00	22.43	N33° 17' 37"W	50.17
C6	217.24	182.00	68.39	S33° 36' 31"W	204.57
C7	106.61	100.00	61.08	S29° 57' 13"W	101.63
C8	207.55	100.00	118.92	N60° 02' 47"W	172.25
C9	204.65	132.00	88.83	S43° 49' 46"W	184.76
C10	204.39	132.00	88.72	N43° 53' 16"E	184.57
C11	243.10	157.00	88.72	S43° 53' 16"W	219.53
C12	79.89	200.00	22.89	S13° 11' 24"E	79.36

