

WATER DISTRIBUTION SYSTEM to serve
BROOKFIELD SOUTH ADDITION - PHASE 6

Phase 6 Project Number: 448-2022-029530 47125124 E4115

and

BROOKFIELD SOUTH ADDITION - PHASE 7

Phase 7 Project Number: 448-2022-029532 47125224 E4116

CITY OF WICHITA, KANSAS

Paul Gunzelman, P.E., City Engineer

GENERAL NOTES:

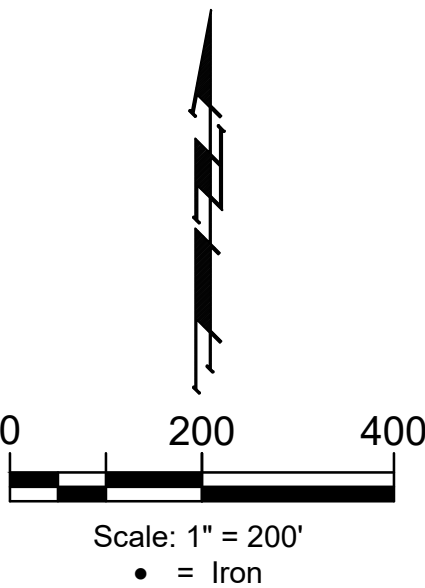
- Contractor will be required to provide notice to utility companies a minimum of seventy-two (72) hours prior to any excavation, as follows:

Kansas One-Call 687-2470

The Contractor must notify the following in case of an emergency:

Cox Communications 262-4270
Kansas Gas Service 1-888-482-4950
Westar Energy 363-8650
Aquila Energy 1-800-303-0357
AT&T 268-4563
City of Wichita Water Dept. 268-4563
City of Wichita Sewer Maint. 268-4024
City of Wichita Storm Sewer Maint. 268-4090
City of Wichita Traffic Maint. 268-4034
Conoco Phillips Pipeline Co. 1-877-267-2290
Southern Star Pipeline Co. 529-6600
Kinder-Morgan Pipeline Co. 1-888-844-5658
- Utility service lines, poles, valve boxes, meters, and etcetera 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.

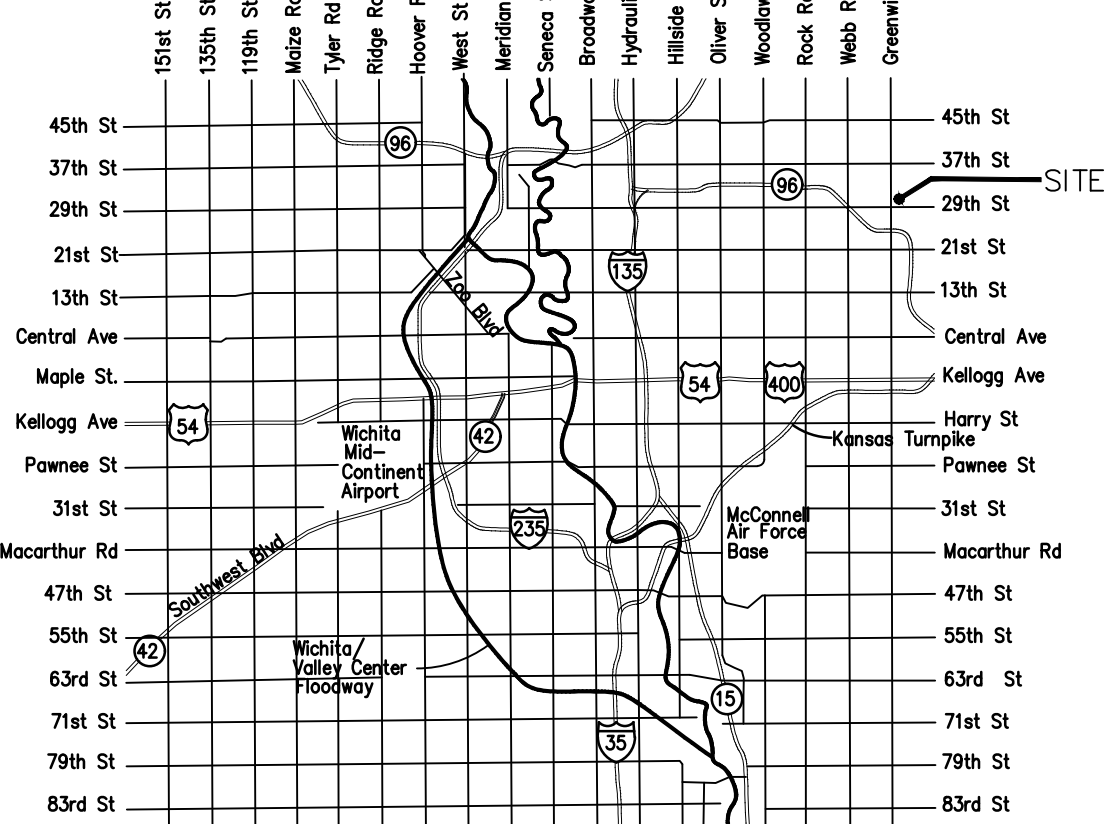
Rubble from the removal of miscellaneous structures and excess excavation which is to be wasted shall be disposed of on sites to be provided by the Contractor. These sites shall be approved by the Engineer as to suitability, appearance and site location. Locations, in the opinion of the Engineer, that 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 would require a Kansas State Board of Agriculture permit. Any material dumped in waters of the United States or wetlands is subject to U.S. Corps. of Engineers permitting regulations. Any material buried or stockpiled beyond approved construction limits would require additional archaeological investigations unless buried in a previously approved borrow location.
- 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 this construction operations. Such irons shall be re-established by a licensed land surveyor in accordance with state laws.
- All existing and proposed erosion control measures including silt fencing, erosion control mat, straw bales, inlet barriers, and const. entrance shall be maintained throughout construction by the contractor and until project is accepted by the City of Wichita. The on-site engineer shall complete weekly reports on the status of erosion control measures. The contractor shall be required to comply with maintenance and/or replacement of erosion control measures as determined by the on-site engineer until project is accepted by City of Wichita. Maintenance and/or replacement of erosion control measures to be paid by L.S. bid item "Maintain Existing BMP's."
- The Contractor shall adjust water valve boxes and fire hydrants as directed by the Engineer at the price bid for said adjustments. The Water Department shall field locate water valves one time during construction when requested by Contractor. It shall be the Contractor's responsibility to preserve such field locations during the construction process. Water valves, water valve boxes or fire hydrants damaged during construction shall be repaired by the Contractor at his own expense.
- All construction shall be completed following current City Standard Specifications and Special Provisions.
- All excess excavation shall remain on-site and shall be stockpiled or spread at a location determined by the engineer.
- Opening and closing of water valves shall be done slowly to prevent damage to the water distributions system from water hammer. All valves closed by the contractor must be reopened as new construction permits. Project inspector must ascertain that any valve closed by the Contractor is reopened. Contractor will be permitted to operate water valves only when the project inspector assigned to the project is present.
- Maintain a minimum of 10-foot horizontal separation between all water lines (mains, services, and fire hydrants) and all sanitary sewer lines (mains, services, and manholes). All separation distances are to be measured from edge-to-edge, at the closest point.
- Maintain a minimum of 2-foot vertical separation between all water lines (mains and services) and all gravity sanitary sewer lines (mains, services, and manholes) at crossings. All separation distances are to be measured from edge-to-edge, at the closest point.
- Maintain a minimum of 2-foot vertical separation between all water lines (mains and services) and all pressurized sanitary sewer lines (force mains and services) at crossings. Waterlines must always be placed above pressurized sanitary sewer lines where they cross. All separation distances are to be measured from edge-to-edge, at the closest point.
- The Developer for this project is Jeff Mullen 8100 E. 22nd St. N., Bldg. 1000, Wichita, KS 67272 PH(316) 684-7300 email: jeff@ritchiedevelopment.com



SHEET INDEX

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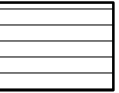
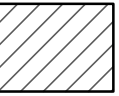
Company: City of Wichita		Contractor: McCullough	
Inspector: Andres Bailon		Superintendent: Rob Grey	
Item	Type	Manufacturer	Quantity
8" Water Line	C900		1574
8" Water Line	DICL		21
8" Valve	Gate	EJ	2
Fire Hydrant		CLOW	4
6" Valve	Gate	EJ	4



VICINITY MAP

BENEFIT DISTRICT - PHASE 6

BENEFIT DISTRICT - PHASE 7

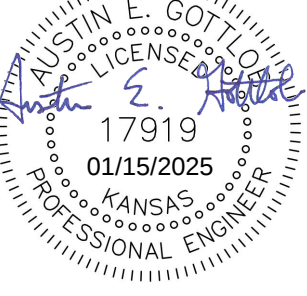


BENCHMARKS

RR spike in asphalt, SW Cor., N1/2, SW1/4, Sec. 34, TWP. 26-S, R-2-E. Elev. = 1400.59 NAVD

R.R. spike in E. face of power pole, 174'± N. of S. line, N1/2, SW1/4 & 49'± E. of W. line, SW1/4, SEC. 34, TWP. 26-S, R-2-E. Elev. = 1398.64 NAVD88

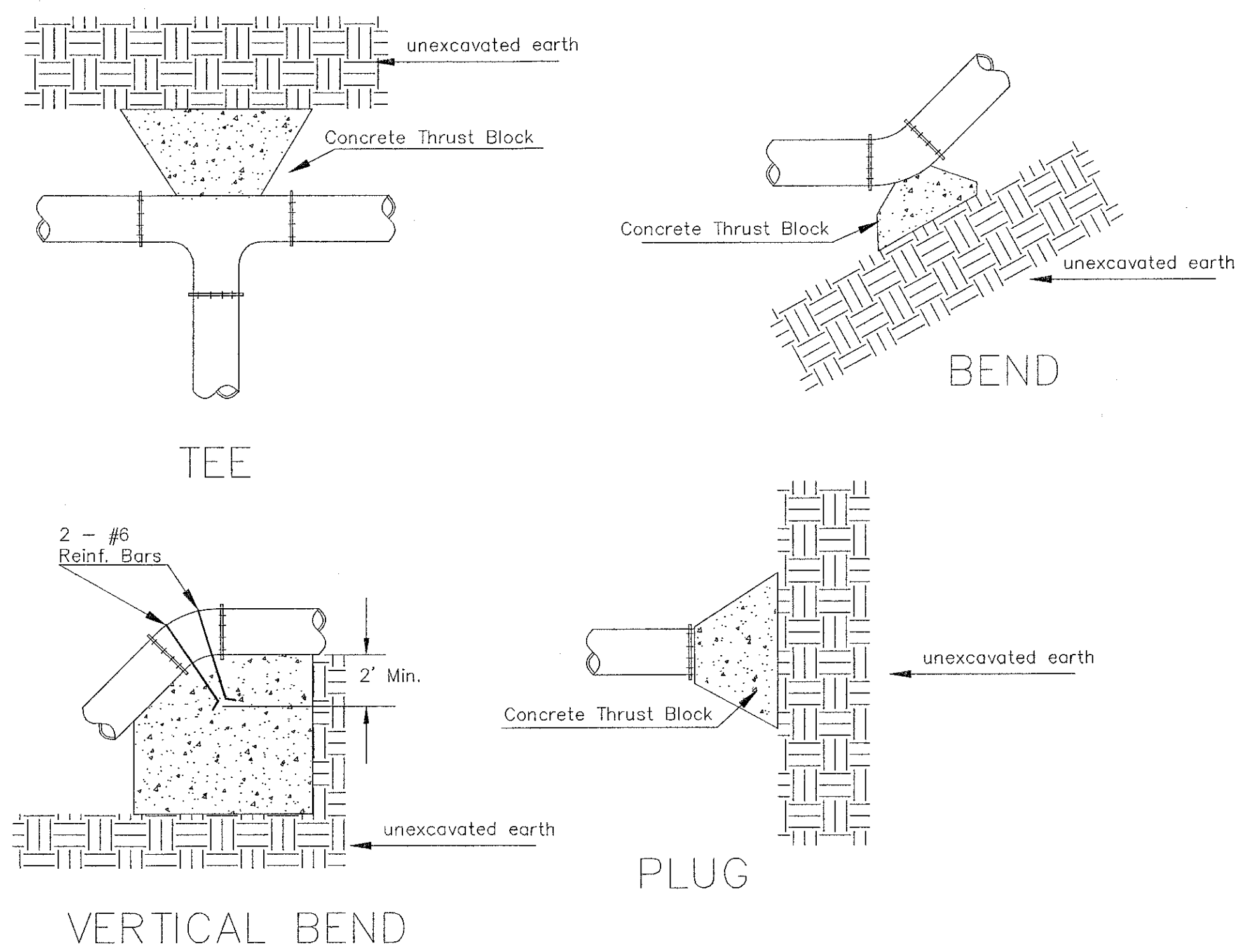
RR spike in S. face of power pole, 294'± S. of N. line, SW1/4, & 48'± E. of W. line, SW1/4, SEC. 34, TWP. 26-S, R-2-E. Elev. = 1386.14 NAVD88



Jan. 14, 2025

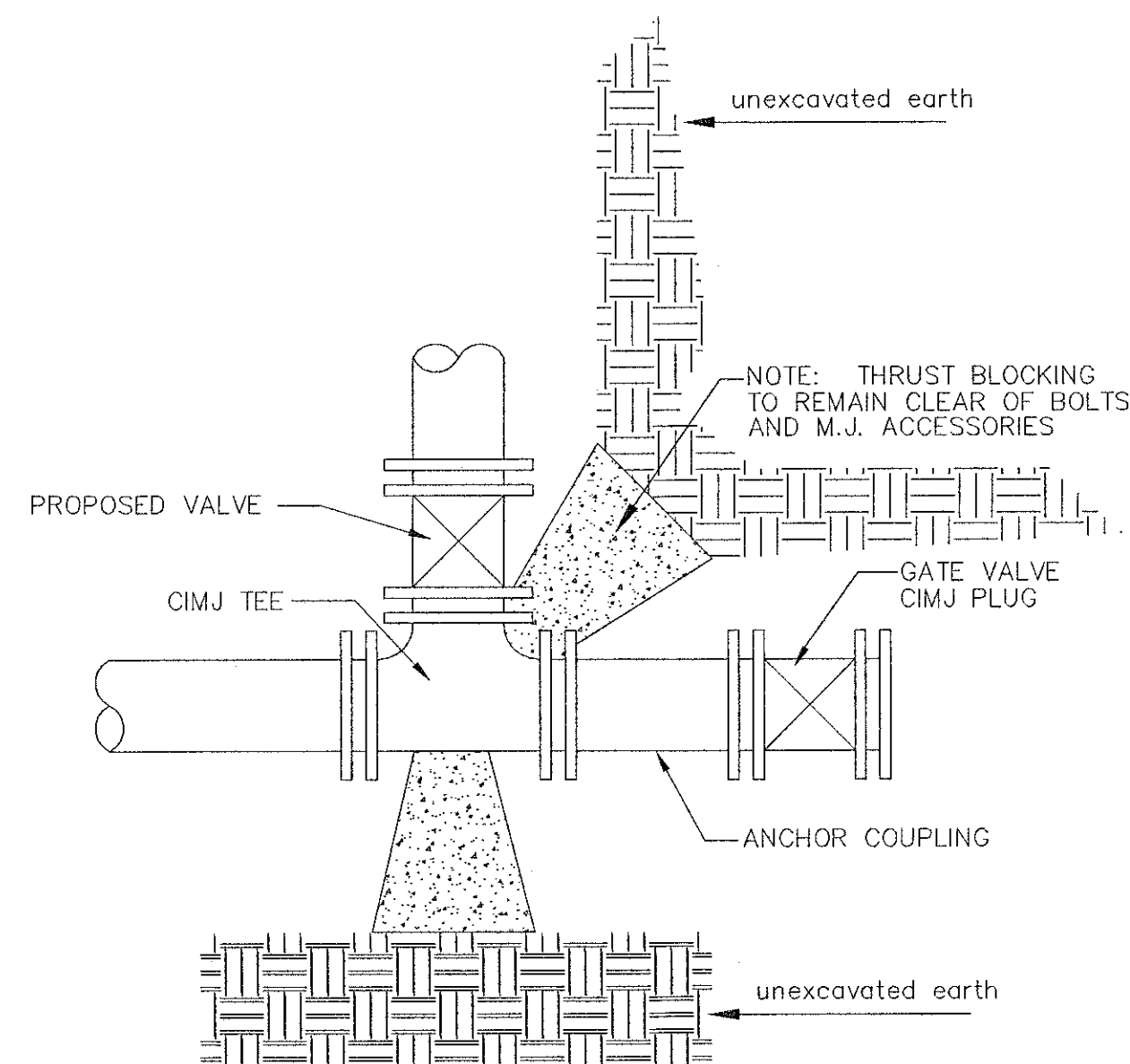


BAUGHMAN COMPANY
315 Ellis St. Wichita, KS 67211 316-262-7271
BaughmanCo.com



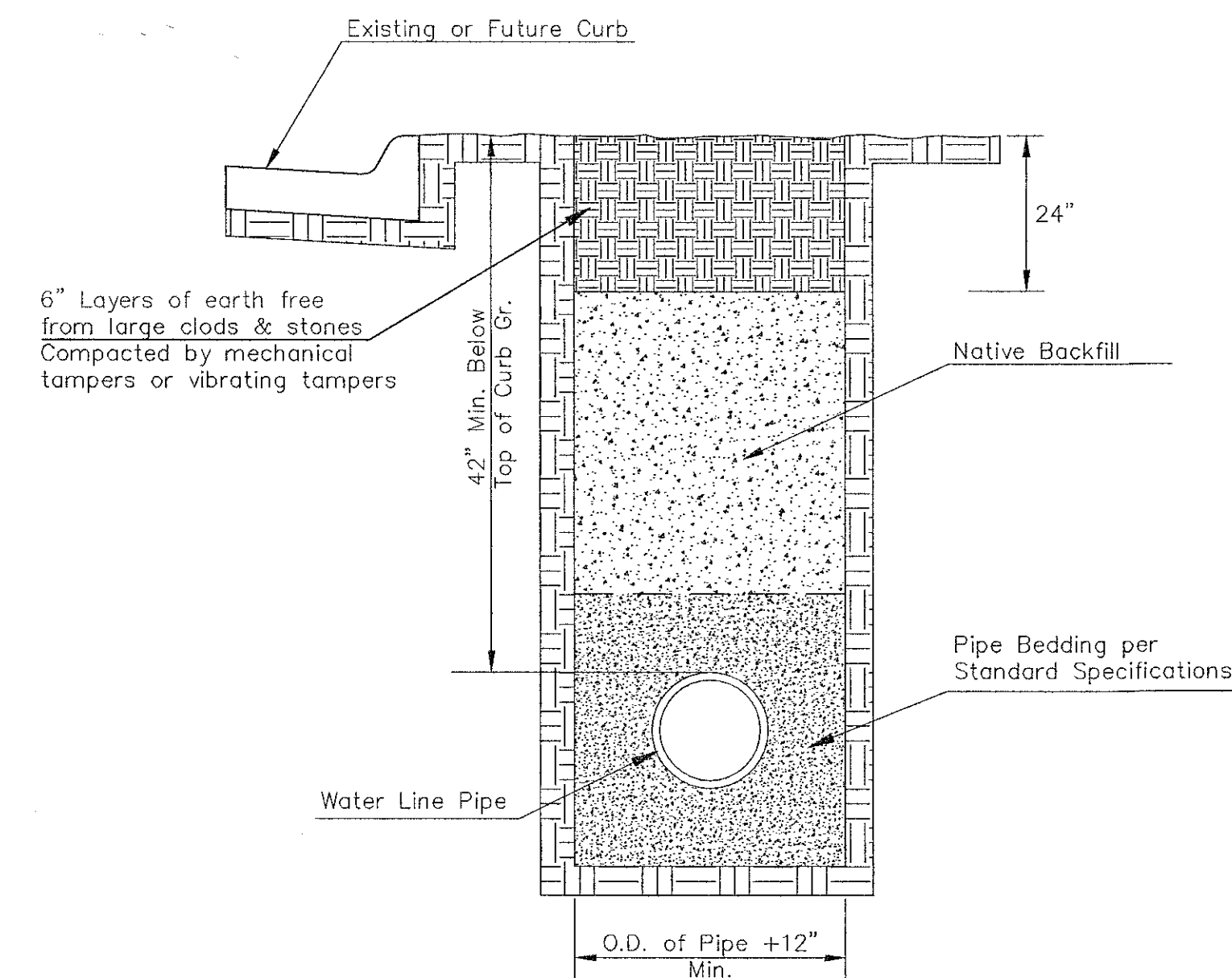
PIPE SIZE	THRUST AT FITTINGS IN TONS-AT 150#/IN ² P						
	PLUG	90°	45°	22 1/2°	11 1/4°	TEE	
6"	2.8	3.95	2.15	1.09	.55	2.8	
8"	4.9	6.95	3.75	1.90	.96	4.9	
12"	11.4	16.1	8.75	4.45	2.25	11.4	
16"	20.15	28.5	15.4	7.85	3.95	20.15	
20"	31.15	44.0	23.85	12.15	6.10	31.15	
24"	44.55	63.0	34.1	17.4	8.75	44.55	

TYPICAL THRUST BLOCKS



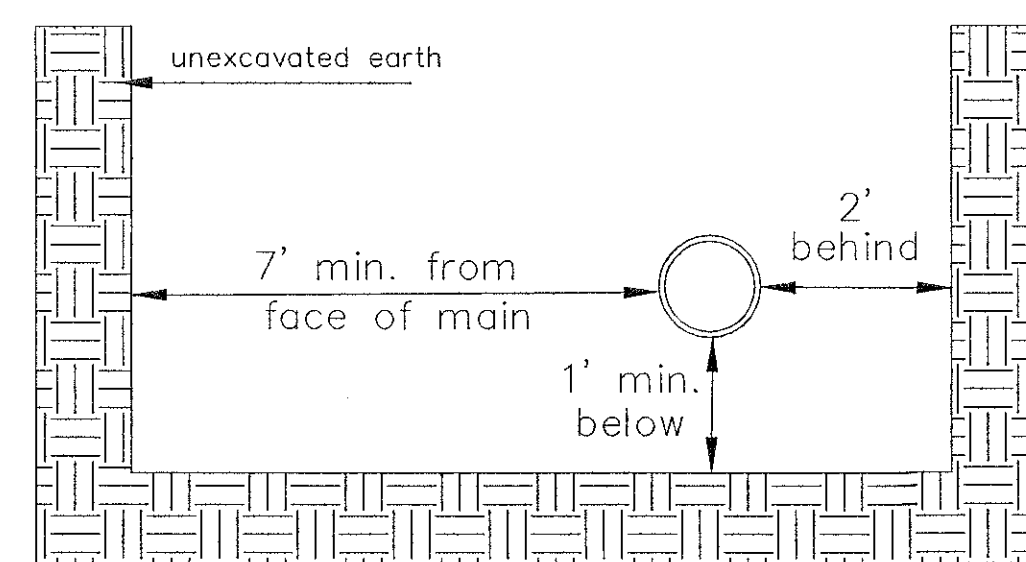
KEY BLOCK DETAIL

* PLANS GOVERN
UNLESS OTHERWISE NOTED ON PLANS



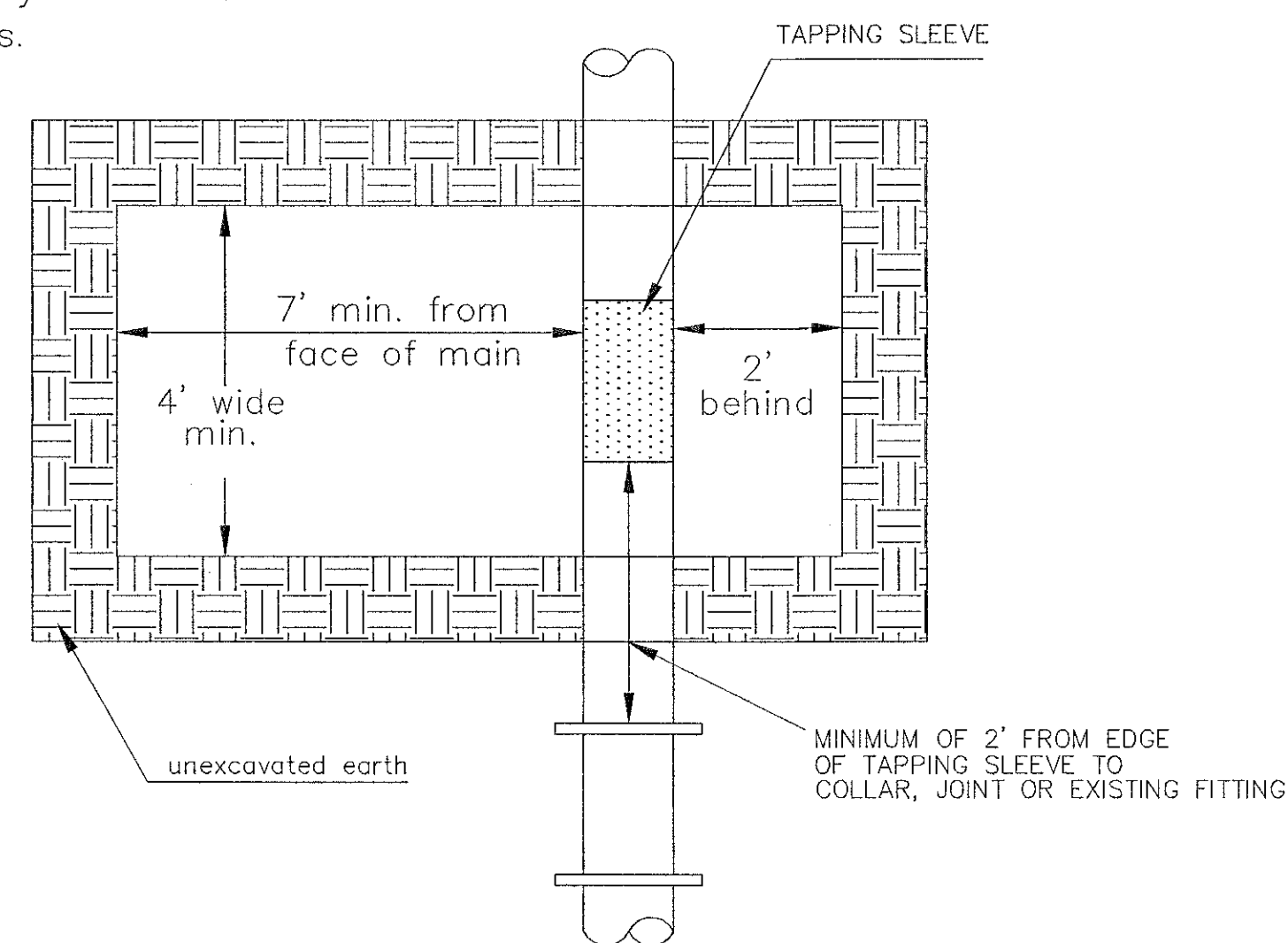
TRENCH COMPACTION IN ROAD RIGHT-OF-WAY

SIDE VIEW

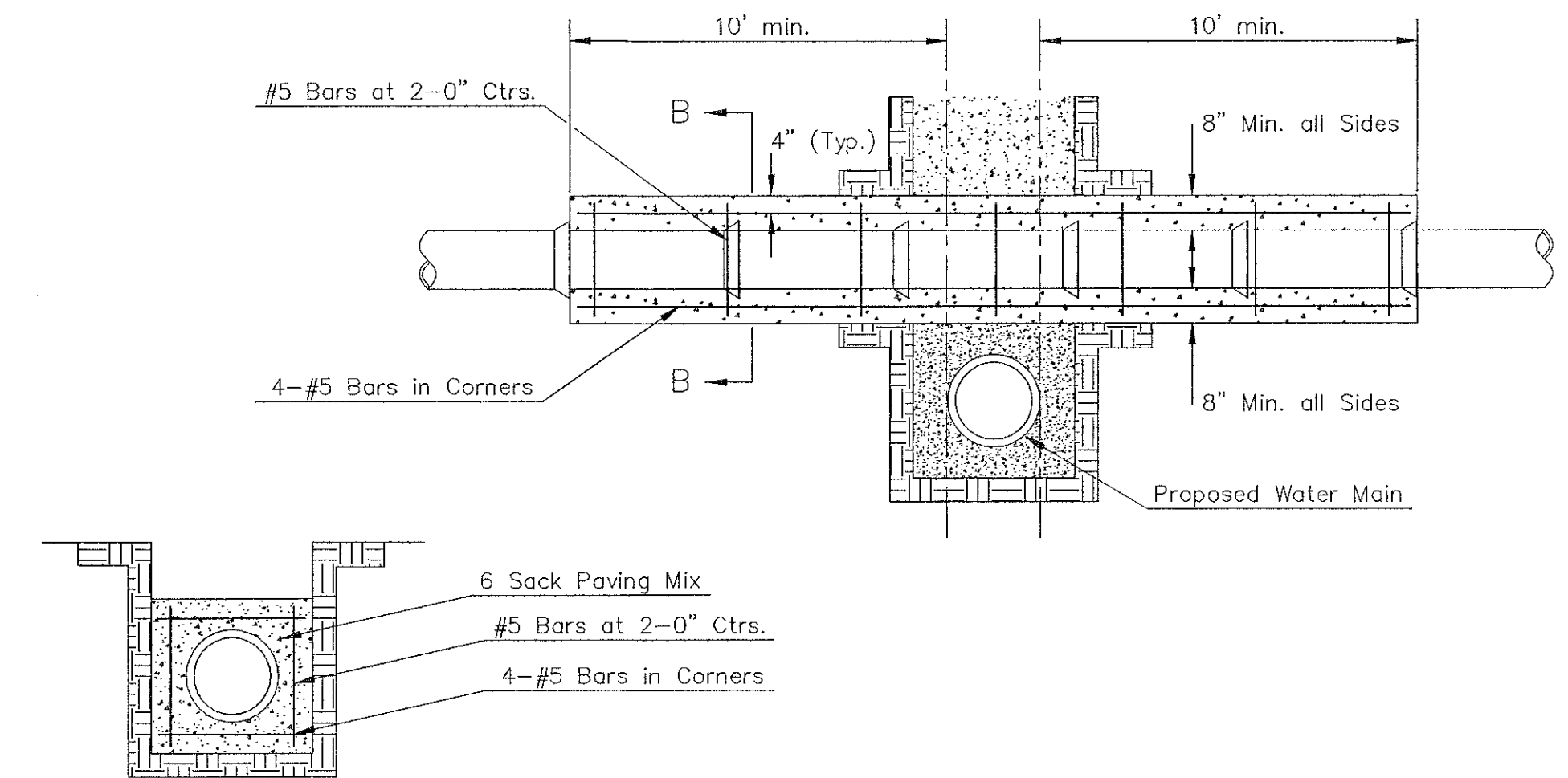


Note: When shoring is required it is to be per The City of Wichita Standard Specifications.

TOP VIEW



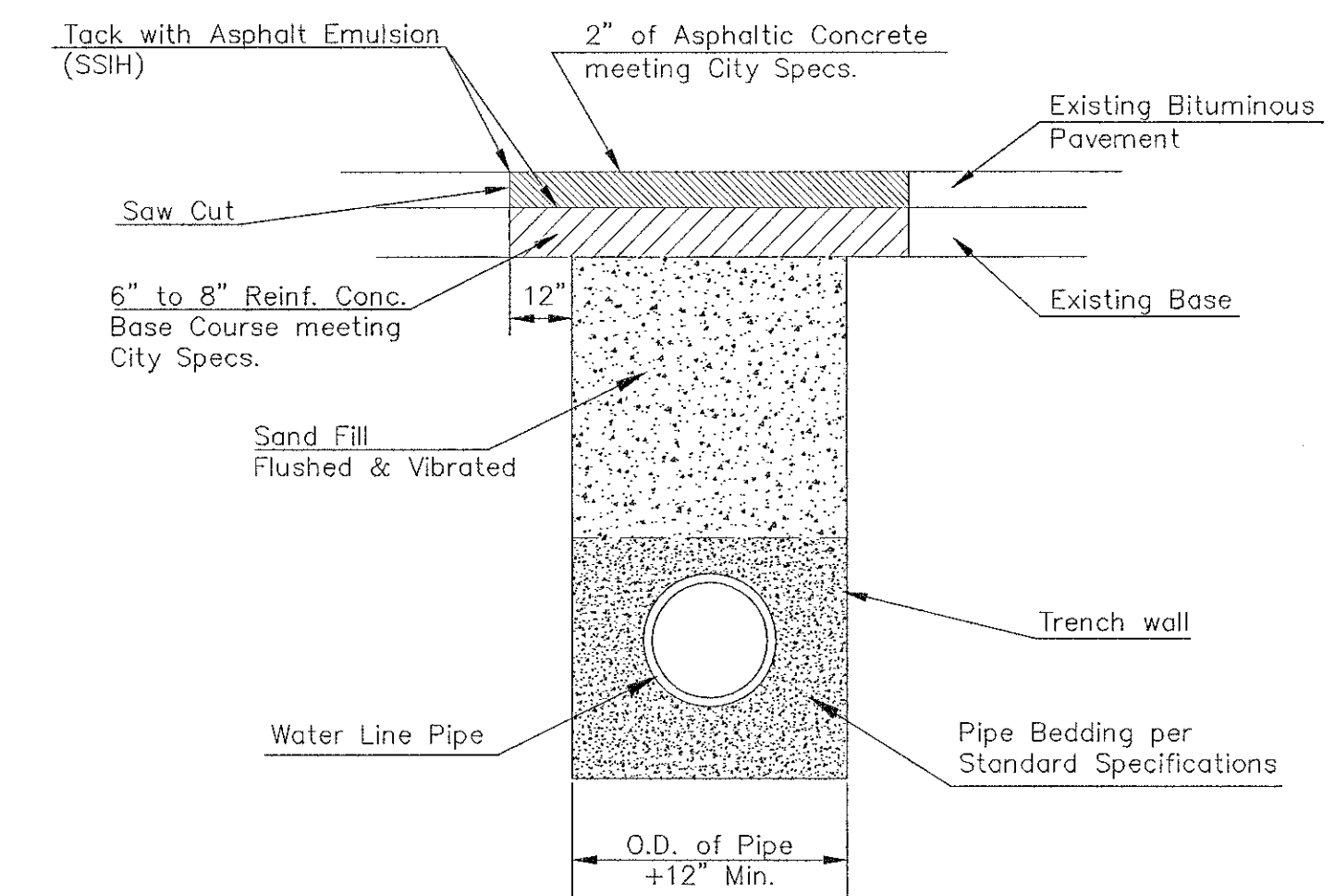
EXCAVATION FOR WET TAP



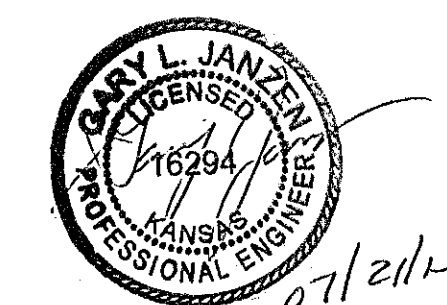
Note: Encasement to begin and end at a Bell on Sanitary Sewer Pipe.

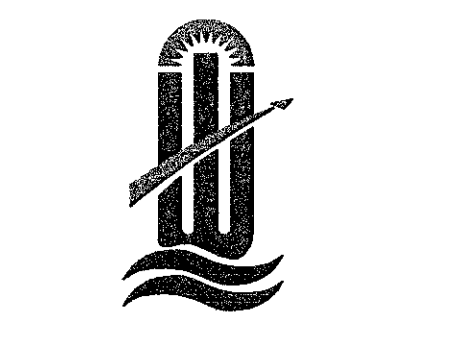
SECTION B-B

REINFORCED CONCRETE ENCASEMENT
OF SANITARY SEWER



PAVEMENT REPLACEMENT & TRENCH COMPACTION UNDER
EXISTING AND PROPOSED CITY ROADS



 CITY OF WICHITA PUBLIC WORKS & UTILITIES ENGINEERING DIVISION			MISCELLANEOUS WATER DETAILS		
			CITY ENGINEER GARY JANZEN, P.E.		
PROJECT NUMBER	OCA NUMBER	DATE	SHEET		
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501			3 of 17		

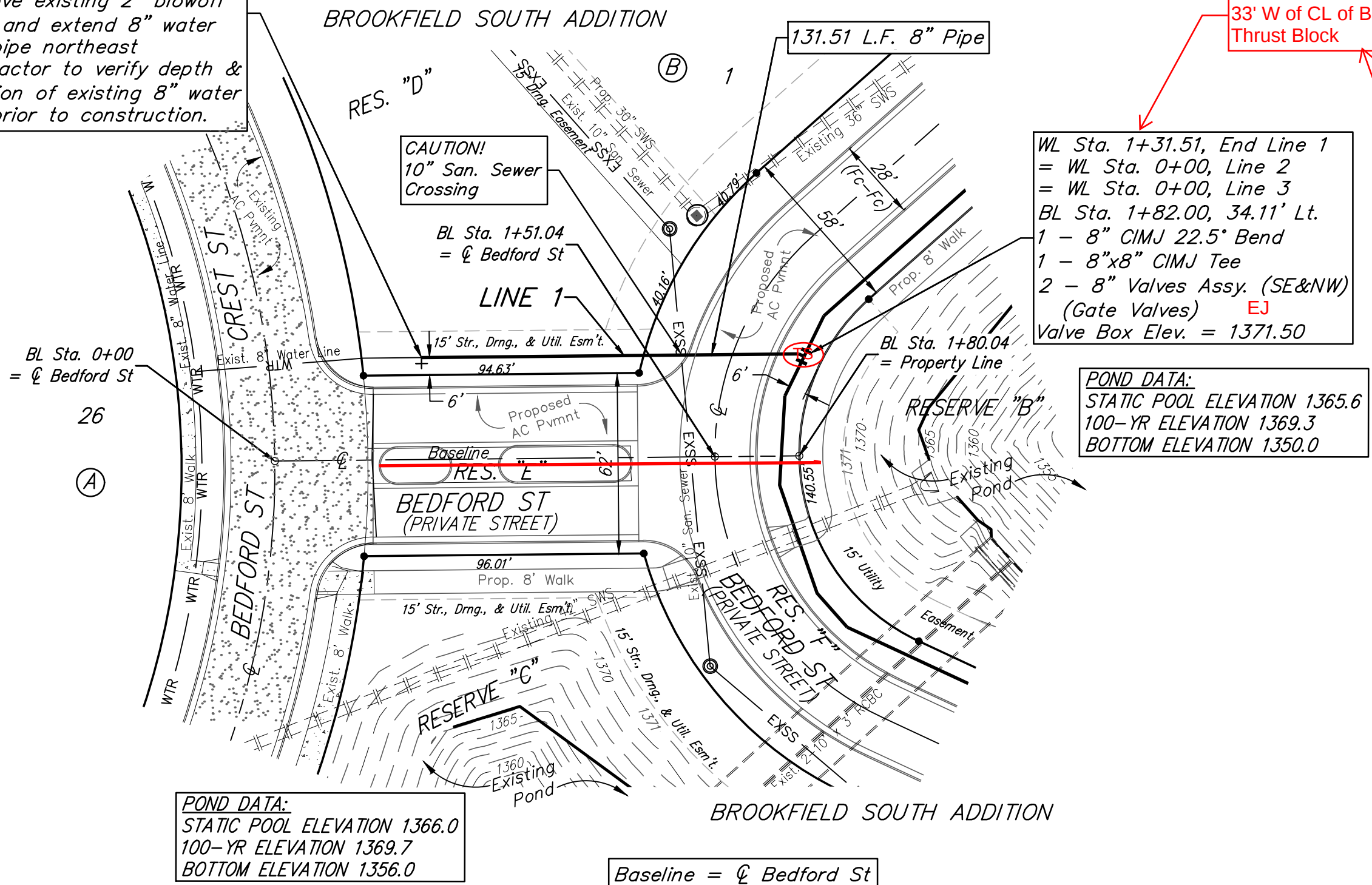
BENCHMARKS:
RR spike in asphalt, SW Cor.,
N1/2, SW1/4, Sec. 34, TWP. 26-S,
R-2-E.
Elev. = 1400.59 NAVD

R.R. spike in E. face of power pole,
174'± N. of S. line, N1/2, SW1/4
& 49'± E. of W. line, SW1/4, SEC.
34, TWP. 26-S, R-2-E.
Elev. = 1398.64 NAVD88

RR. spike in S. face of power pole,
294'± S. of N. line, SW1/4, &
48'± E. of W. line, SW1/4, SEC. 34,
TWP. 26-S, R-2-E.
Elev. = 1386.14 NAVD88

8" Sleeve
53' N of CL of Crest St
35' W of CL of Bedford St

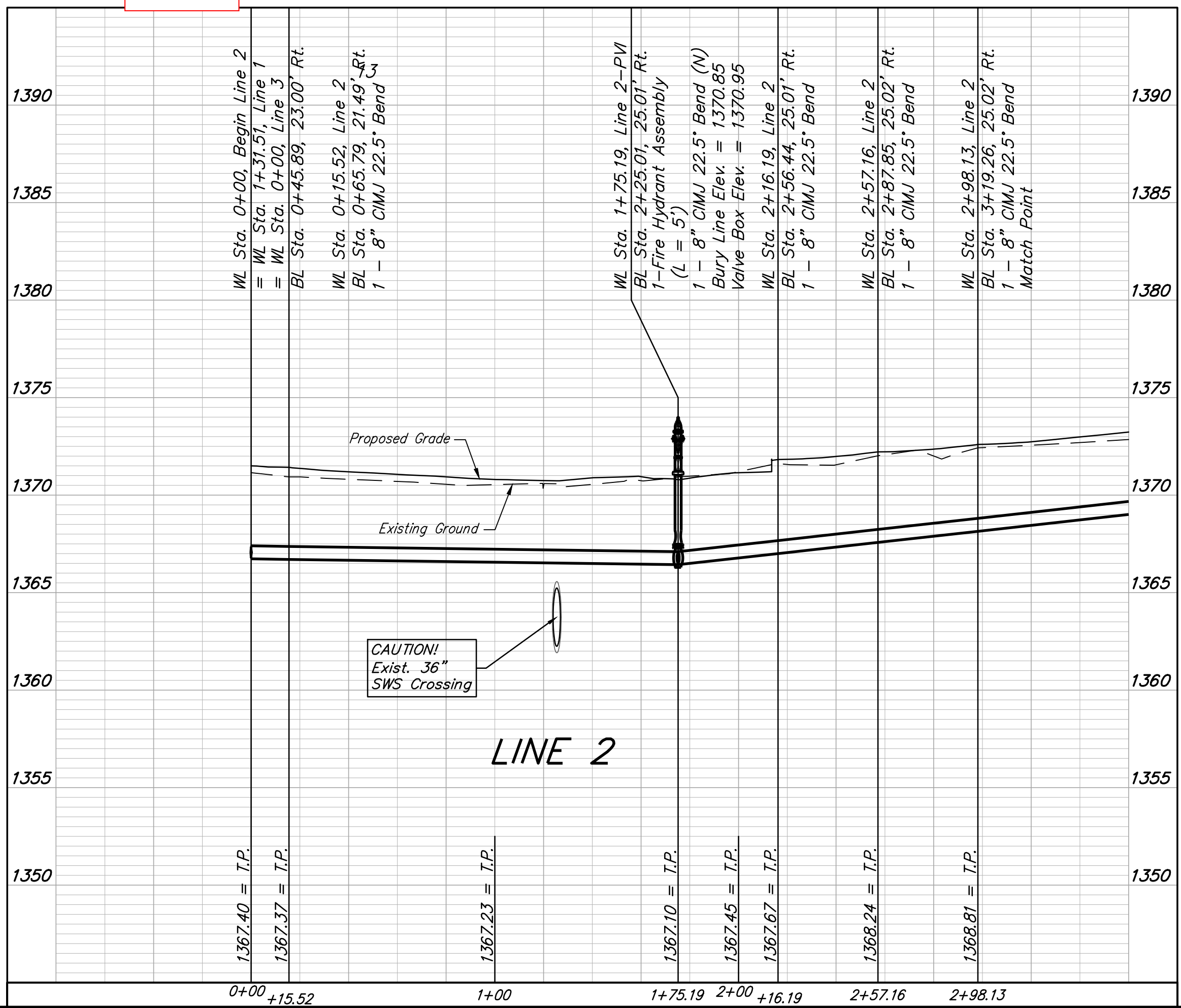
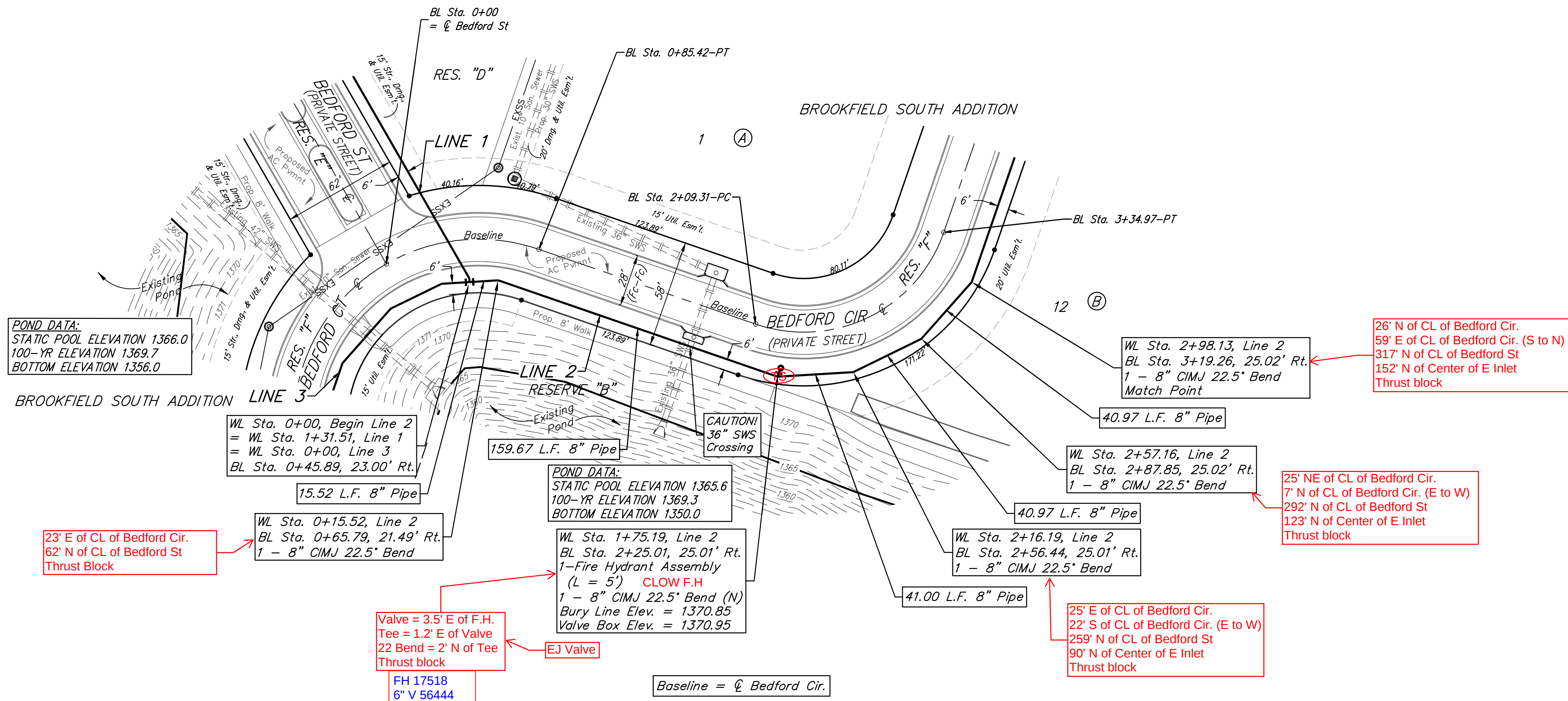
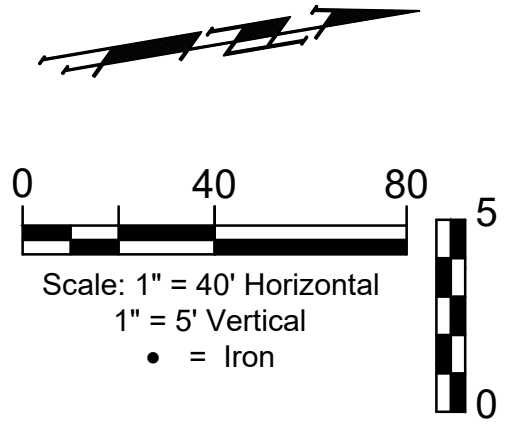
WL Sta. 0+00, Begin Line 1
BL Sta. 0+50.71, 35.00' Lt.
Begin Phase 6 Water Line
Proj. #448-2022-029530
Remove existing 2" blowoff
valve and extend 8" water
line pipe northeast
Contractor to verify depth &
location of existing 8" water
line prior to construction.



BENCHMARKS:
RR spike in asphalt, SW Cor.,
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**BAUGHMAN
COMPANY**

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Brookfield South Addition
Phase 6 & Phase 7

LINE 2

WATER DISTRIBUTION
SYSTEM

PROJECT NUMBER:

DESIGN: AEG DRAWN: JAK
DATE: Jan. 14, 2025

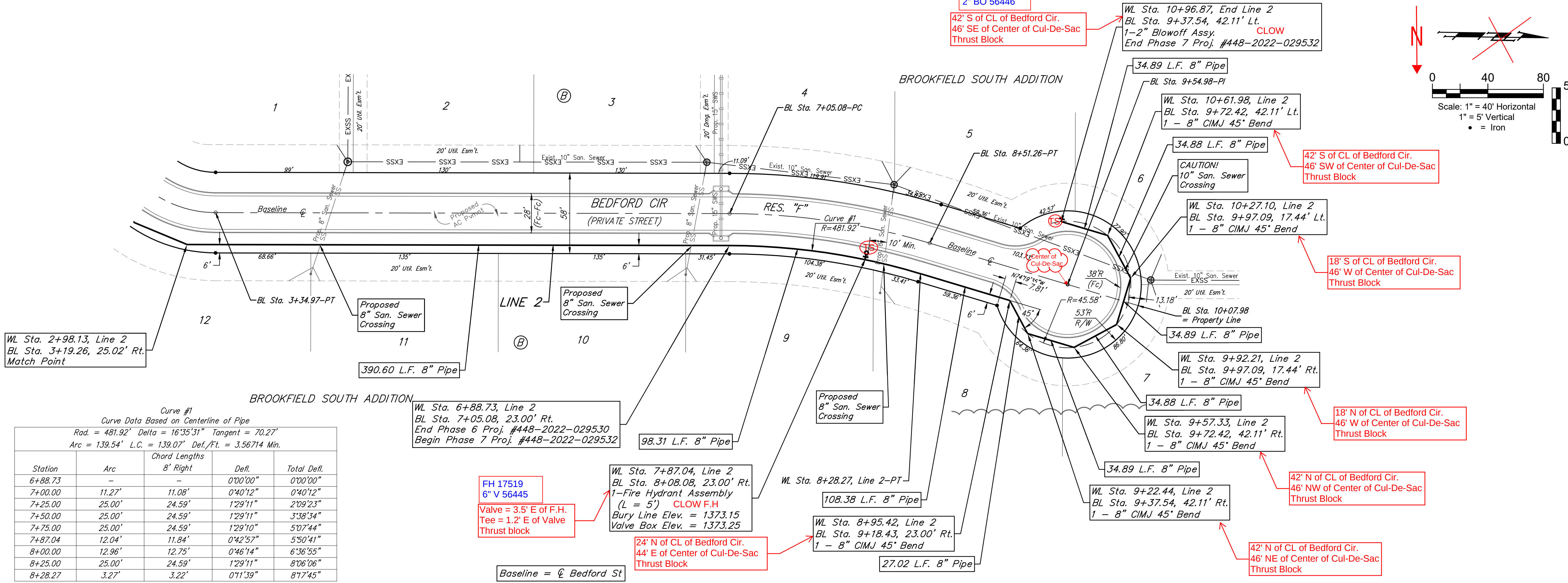
SHEET **5** OF **17**

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BENCHMARKS:
RR spike in asphalt, SW Cor.,
N1/2, SW1/4, Sec. 34, TWP. 26-S,
R-2-E.
Elev. = 1400.59 NAVD

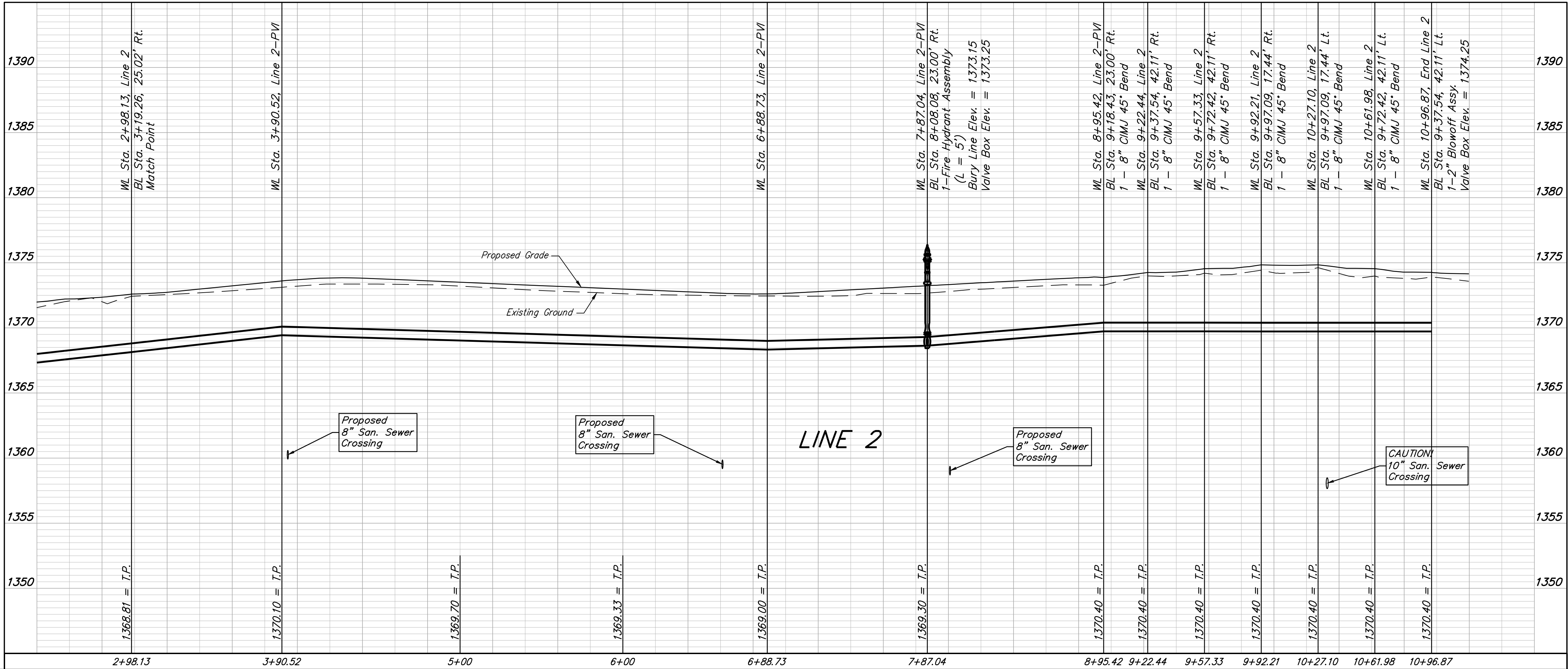
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174± N. of S. line, N1/2, SW1/4
& 49± E. of W. line, SW1/4, SEC.
34, TWP. 26-S, R-2-E.
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RR. spike in S. face of power pole,
294± S. of N. line, SW1/4, &
48± E. of W. line, SW1/4, SEC. 34,
TWP. 26-S, R-2-E.
Elev. = 1386.14 NAVD88



Curve #1
Curve Data Based on Centerline of Pipe
Rad. = 481.92' Delta = 16°35'31" Tangent = 70.27'
Arc = 139.54' L.C. = 139.07' Def./Ft. = 3.56714 Min.

Station	Arc	Chord Lengths 8' Right	Defl.	Total Defl.
6+88.73	-	-	0°00'00"	0°00'00"
7+00.00	11.27'	11.08'	0°40'12"	0°40'12"
7+25.00	25.00'	24.59'	1°29'11"	2°09'23"
7+50.00	25.00'	24.59'	1°29'11"	3°38'34"
7+75.00	25.00'	24.59'	1°29'10"	5°07'44"
7+87.04	12.04'	11.84'	0°42'57"	5°50'41"
8+00.00	12.96'	12.75'	0°46'14"	6°36'55"
8+25.00	25.00'	24.59'	1°29'11"	8°06'06"
8+28.27	3.27'	3.22'	0°11'39"	8°17'45"



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Brookfield South Addition
Phase 6 & Phase 7

LINE 2

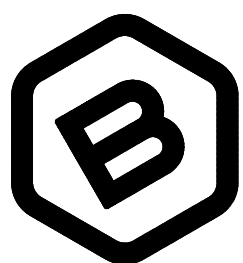
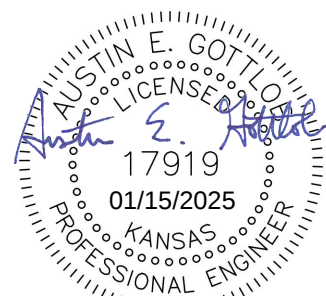
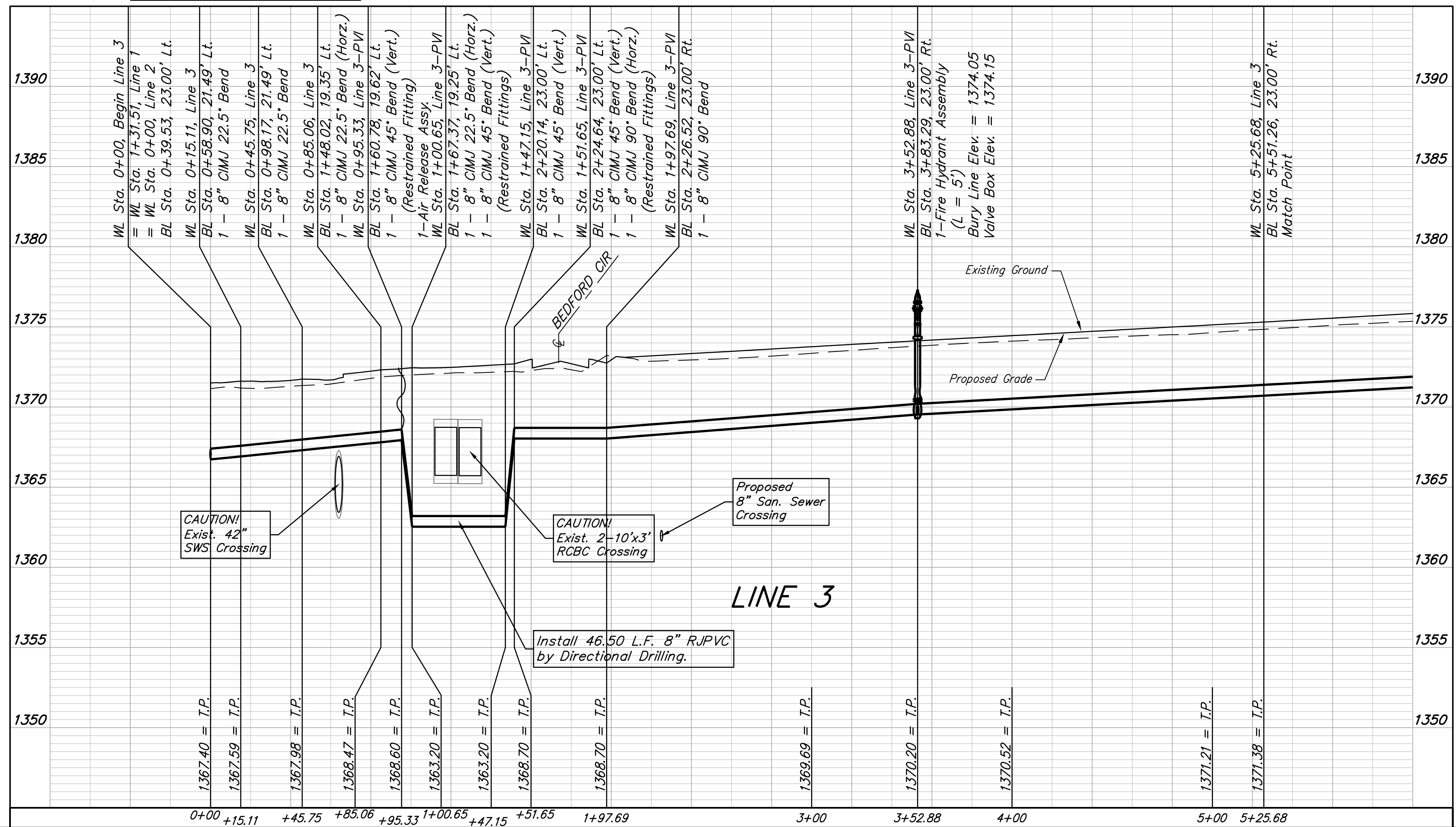
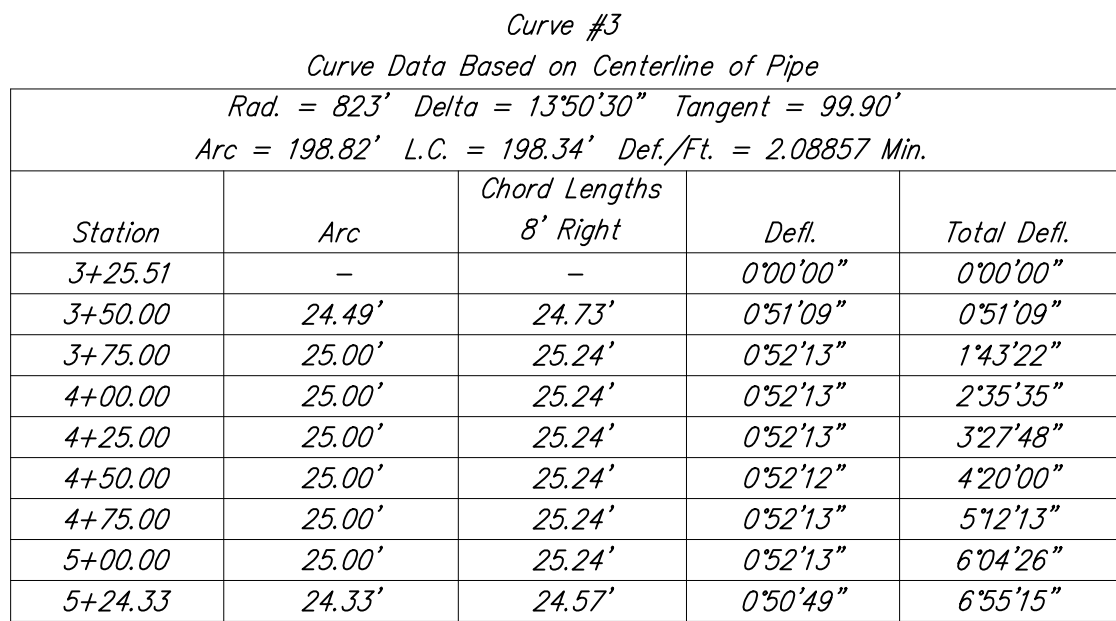
WATER DISTRIBUTION
SYSTEM

PROJECT NUMBER:

DESIGN: AEG DRAWN: JAK
DATE: Jan. 14, 2025

SHEET 6 OF 17

RR. spike in S. face of power pole,
294'± S. of N. line, SW1/4, &
48'± E. of W. line, SW1/4, SEC. 34,
TWP. 26-S, R-2-E.
Elev. = 1386.14 NAVD88



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COMPANY

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316-262-7271
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Brookfield South Addition
Phase 6 & Phase 7

LINE 3

WATER DISTRIBUTION SYSTEM

PROJECT NUMBER:

DESIGN: AEG DRAWN: JAK

DATE: Jan. 14, 2025

SHEET

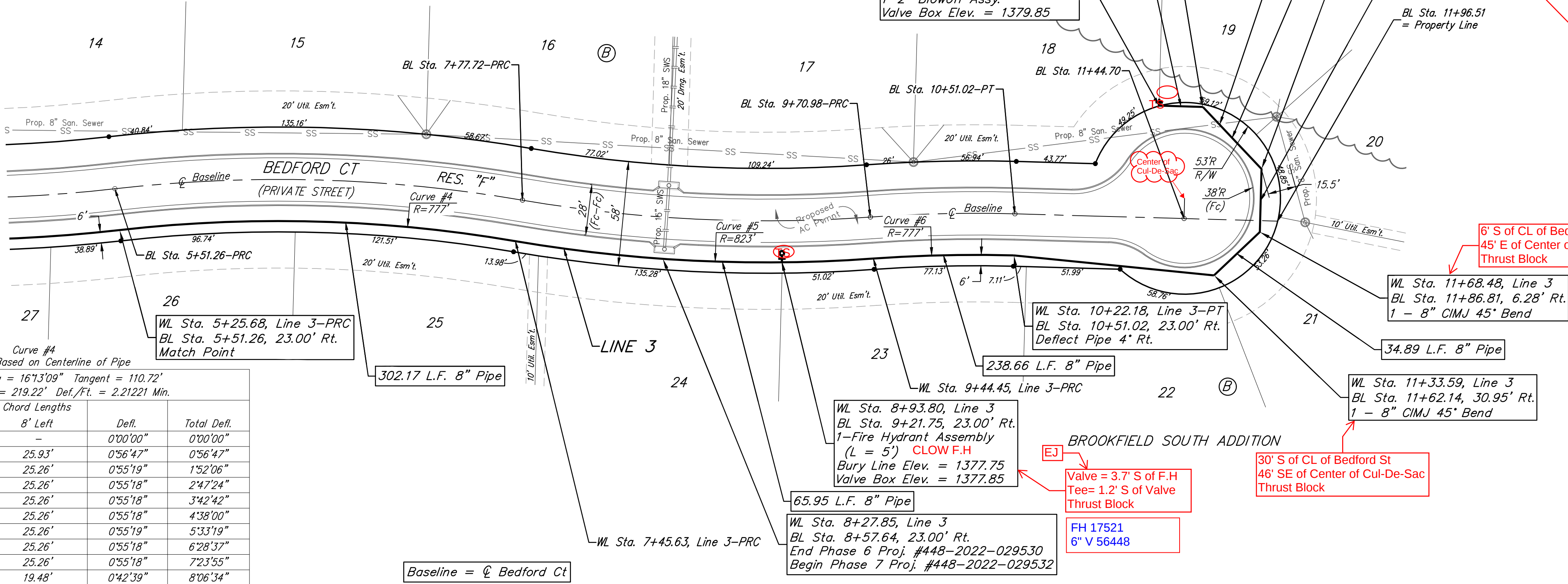
OF
17

BENCHMARKS:
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N1/2, SW1/4, Sec. 34, TWP. 26-S,
R-2-E.
Elev. = 1400.59 NAVD

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& 49± E. of W. line, SW1/4, SEC.
34, TWP. 26-S, R-2-E.
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BROOKFIELD SOUTH ADDITION

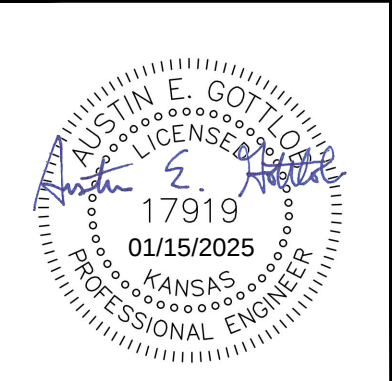
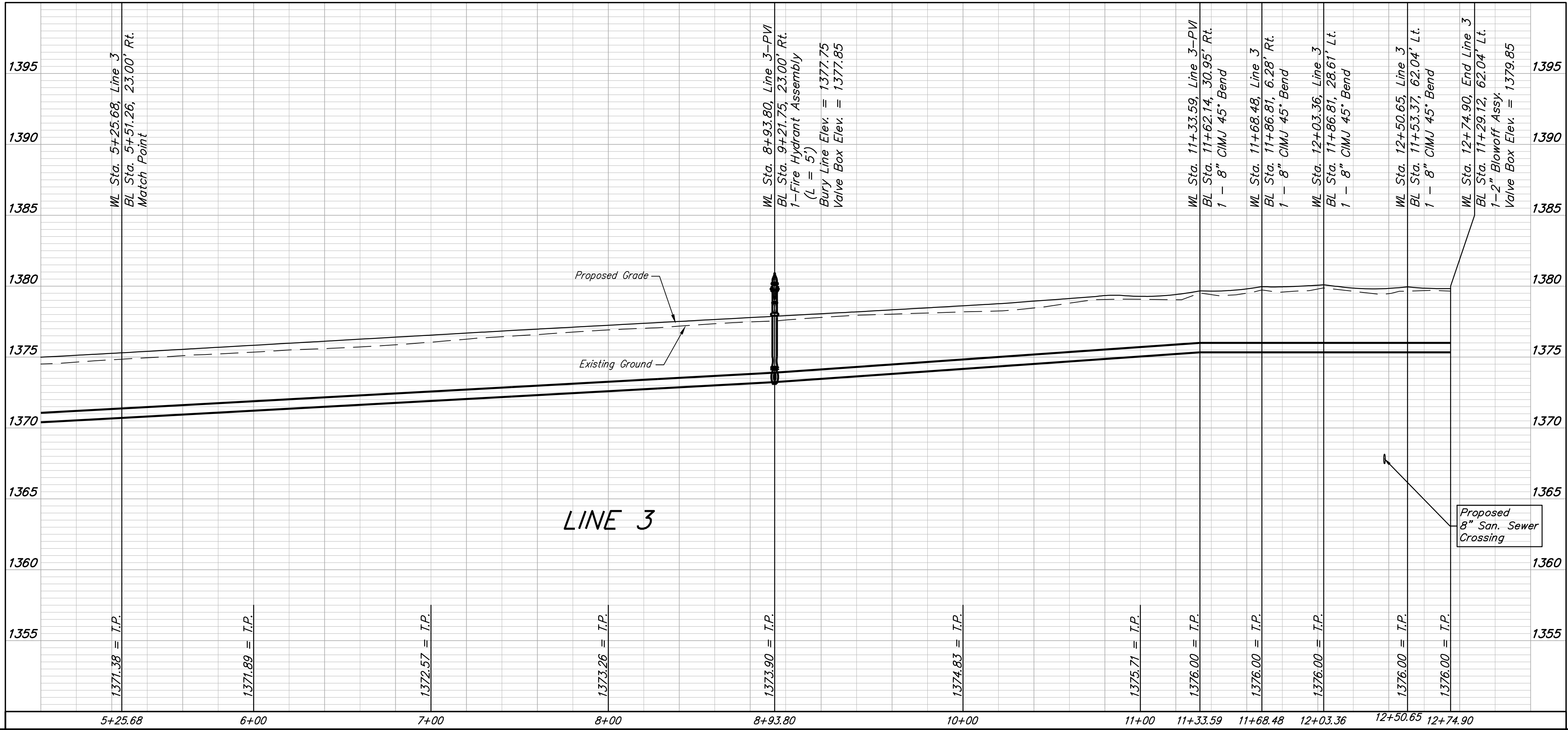
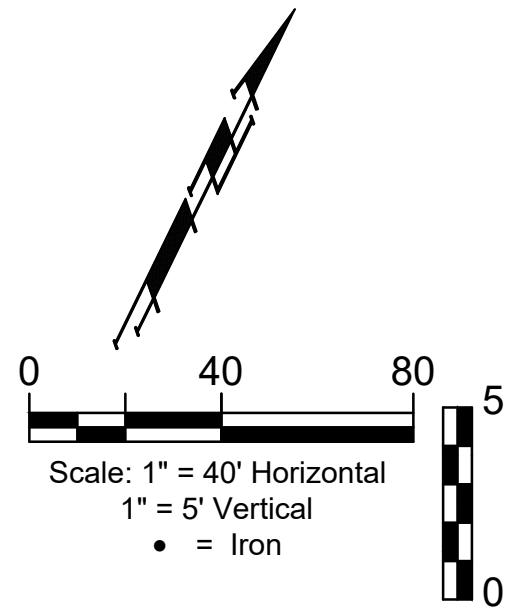


Curve #5
Curve Data Based on Centerline of Pipe
Rad. = 777' Delta = 54°3'55" Tangent = 38.90'
Arc = 77.73' L.C. = 77.70' Def./Ft. = 2.21225 Min.

Station	Arc	Chord Lengths	Defl.	Total Defl.
9+43.10	—	8' Left	0'00'00"	0'00'00"
9+50.00	6.90'	6.97'	0'15'16"	0'15'16"
9+75.00	25.00'	25.26'	0'55'19"	1'10'34"
10+00.00	25.00'	25.26'	0'55'19"	2'05'53"
10+20.83	20.83'	21.04'	0'46'04"	2'51'57"

Curve #6
Curve Data Based on Centerline of Pipe
Rad. = 823' Delta = 135°0'30" Tangent = 99.90'
Arc = 198.82' L.C. = 198.34' Def./Ft. = 2.08857 Min.

Station	Arc	Chord Lengths	Defl.	Total Defl.
7+44.28	—	8' Left	0'00'00"	0'00'00"
7+50.00	5.72'	5.66'	0'11'57"	0'11'57"
7+75.00	25.00'	24.76'	0'52'13"	1'04'10"
8+00.00	25.00'	24.76'	0'52'13"	1'56'23"
8+25.00	25.00'	24.76'	0'52'12"	2'48'35"
8+50.00	25.00'	24.76'	0'52'13"	3'40'48"
8+75.00	25.00'	24.76'	0'52'13"	4'33'01"
9+00.00	25.00'	24.76'	0'52'13"	5'25'14"
9+25.00	25.00'	24.76'	0'52'13"	6'17'27"
9+43.10	18.10'	17.92'	0'37'48"	6'55'15"



BAUGHMAN COMPANY

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Wichita, KS 67211
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Brookfield South Addition
Phase 6 & Phase 7

LINE 3

WATER DISTRIBUTION
SYSTEM

PROJECT NUMBER:

DESIGN: AEG DRAWN: JAK
DATE: Jan. 14, 2025

SHEET 8 OF 17

BENCHMARKS:
RR spike in asphalt, SW Cor.,
N1/2, SW1/4, Sec. 34, TWP. 26-S,
R-2-E.
Elev. = 1400.59 NAVD

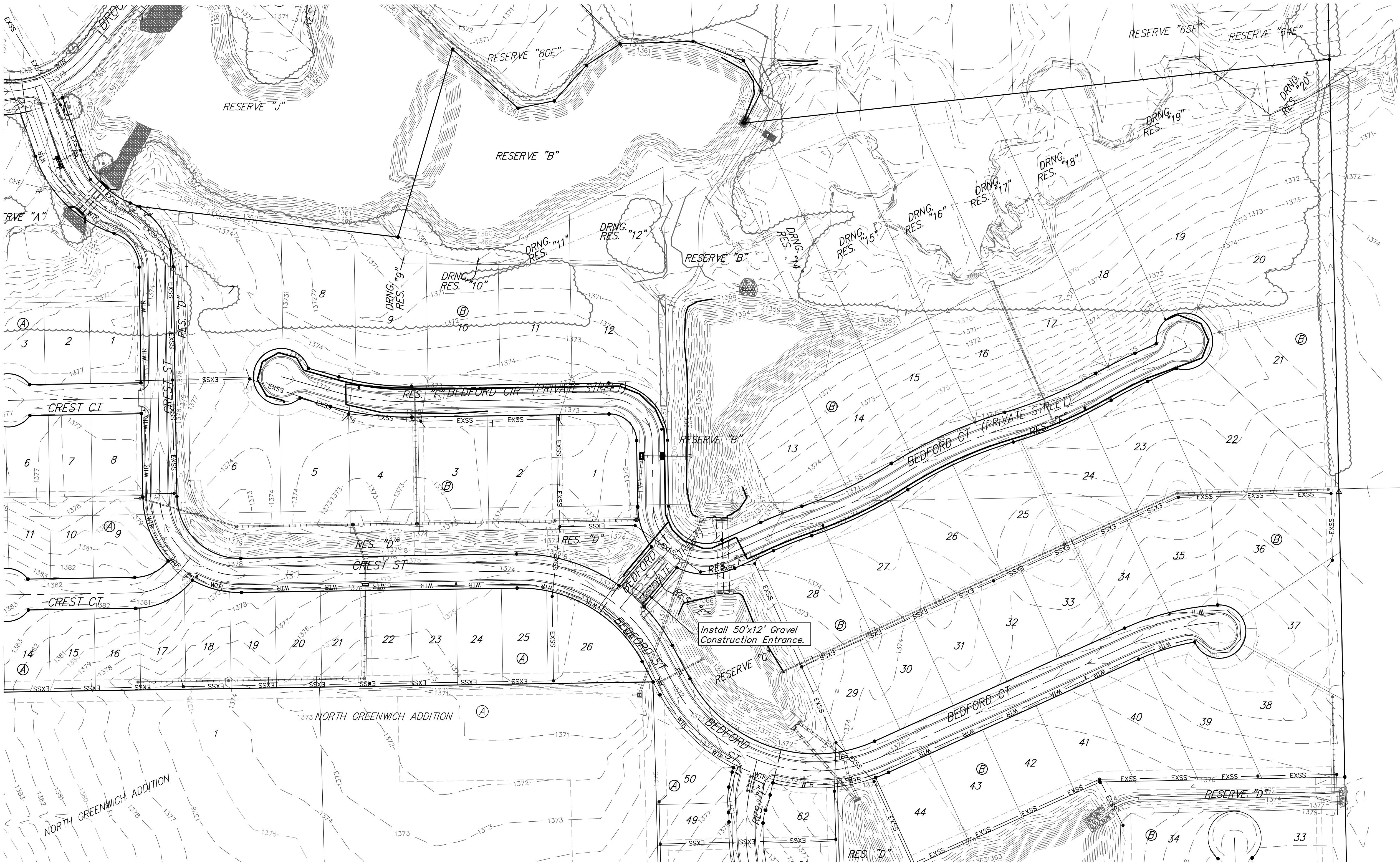
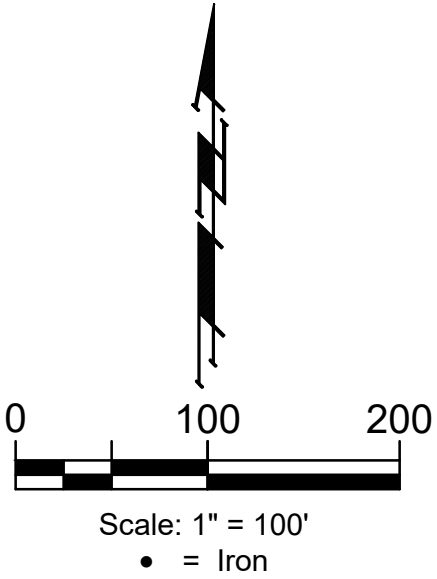
R.R. spike in E. face of power pole,
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& 49± E. of W. line, SW1/4, SEC.
34, TWP. 26-S, R-2-E.
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RR. spike in S. face of power pole,
294± S. of N. line, SW1/4, &
48± E. of W. line, SW1/4, SEC. 34,
TWP. 26-S, R-2-E.
Elev. = 1386.14 NAVD88

NOTES:
1. Contractor shall make sure all erosion control
is in place before project is accepted. This plan
represents the minimum standard. Any additional
erosion control measures shall be installed by the
Contractor as needed.

2. All areas disturbed during construction shall be
seeded, mulched, and fertilized as per Cover Sheet
General Notes.

EROSION CONTROL MEASURE	INSTALL	MAINTAIN
CONSTRUCTION ENTRANCE (EA)	0	1
* ALL EXISTING BMPs INCLUDING CONSTRUCTION ENTRANCE, SEDIMENT BARRIERS, SILT FENCE, CUT-OFF TRENCH, AND EROSION CONTROL MAT SHALL BE MAINTAINED AND REPAIRED IF NECESSARY.		



**BAUGHMAN
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Brookfield South Addition
Phase 6 & Phase 7

**EROSION
CONTROL**

WATER LINE
IMPROVEMENTS

PROJECT NUMBER:

DESIGN: AEG DRAWN: JAK
DATE: Jan. 14, 2025

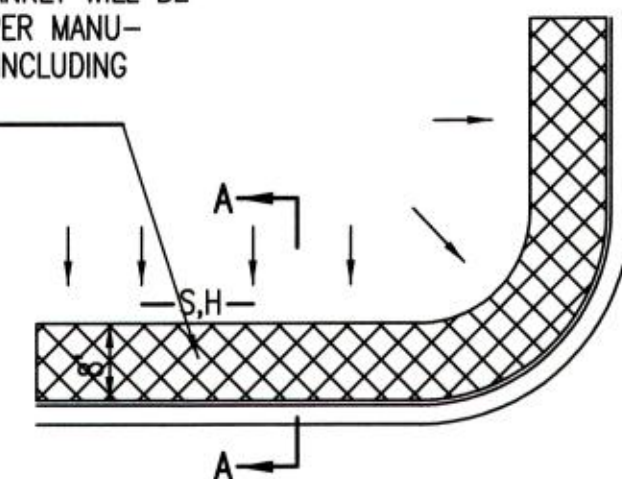
SHEET 9 OF 17

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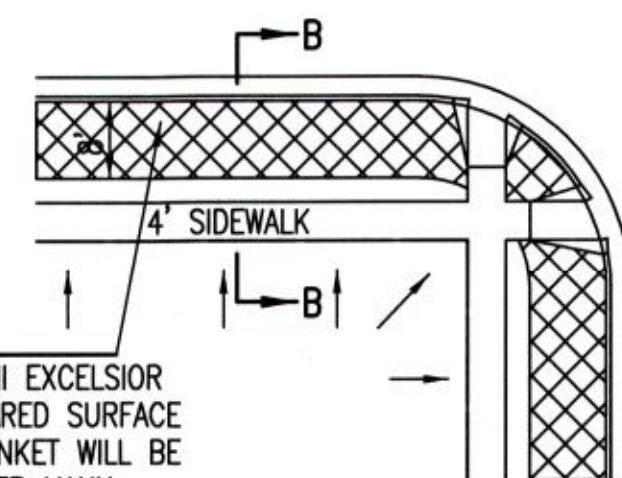
SECTION B-B

SECTION A-A

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 MANU-
FACTURERS RECOMMENDATION, INCLUDING
STAPLES. (SEE DETAIL)



SOUTH STREET

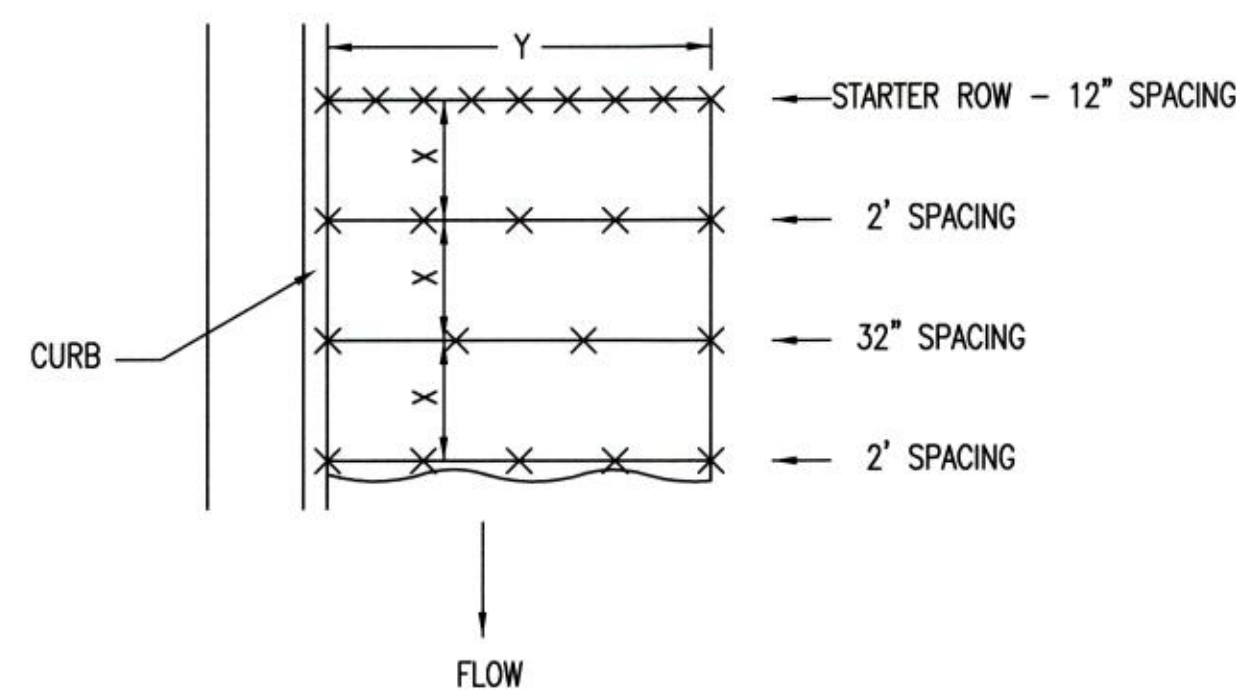


INSTALL 8' WIDE CURLEX I OR II EXCELSIOR
BLANKET, OR EQUAL, ON PREPARED SURFACE
BACK OF CURB. EDGE OF BLANKET WILL BE
AT BACK OF CURB. INSTALL PER MANU-
FACTURERS RECOMMENDATION, INCLUDING
STAPLES. (SEE DETAIL)

GENERAL NOTES

1. EXCELSIOR MAT TO BE INSTALLED WHEN SOD IS NOT SPECIFIED ON PROJECT.
2. EXCELSIOR BLANKET TO BE INSTALLED OVER SEED AND FERTILIZER, AS SPECIFIED IN THE PROJECT SPECIFICATIONS.
3. 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.

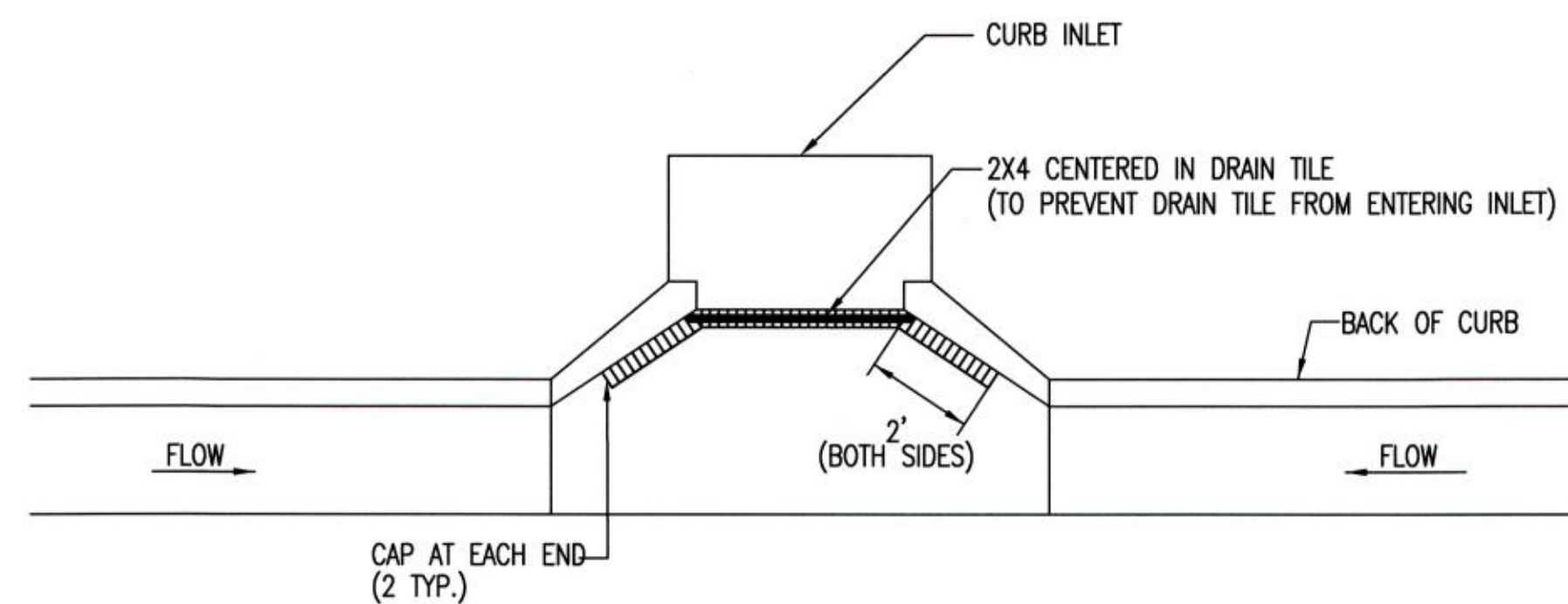
BACK OF CURB PROTECTION DETAIL



STAPLE PATTERN

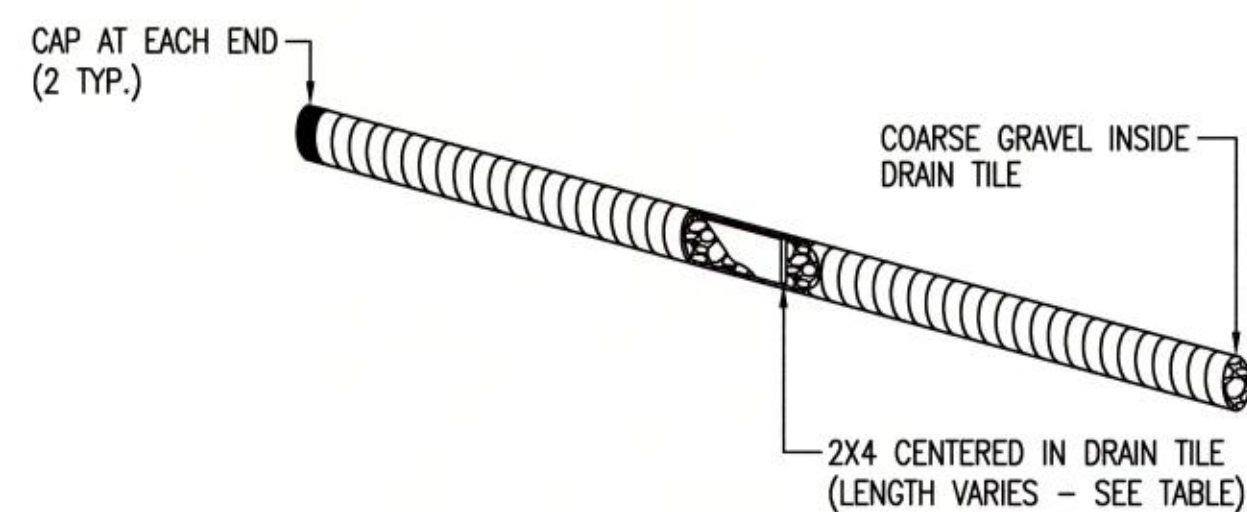
NOTES: USE 6" SEAM OVERLAP
(X & Y = RECOMMENDED BY MANUFACTURE)

DETAILS FOR APPROVED EROSION CONTROL MAT



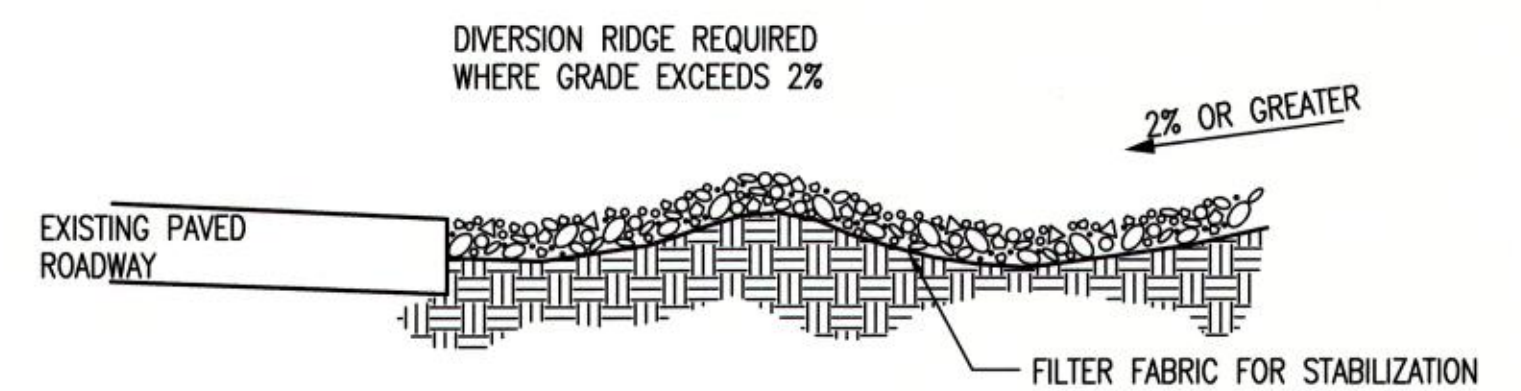
NOTE:
PLACE 4" PERFORATED PVC PIPE, FILLED WITH
1/2"-1" DIA. GRAVEL, IN FRONT OF CURB
INLET AS SHOWN.

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

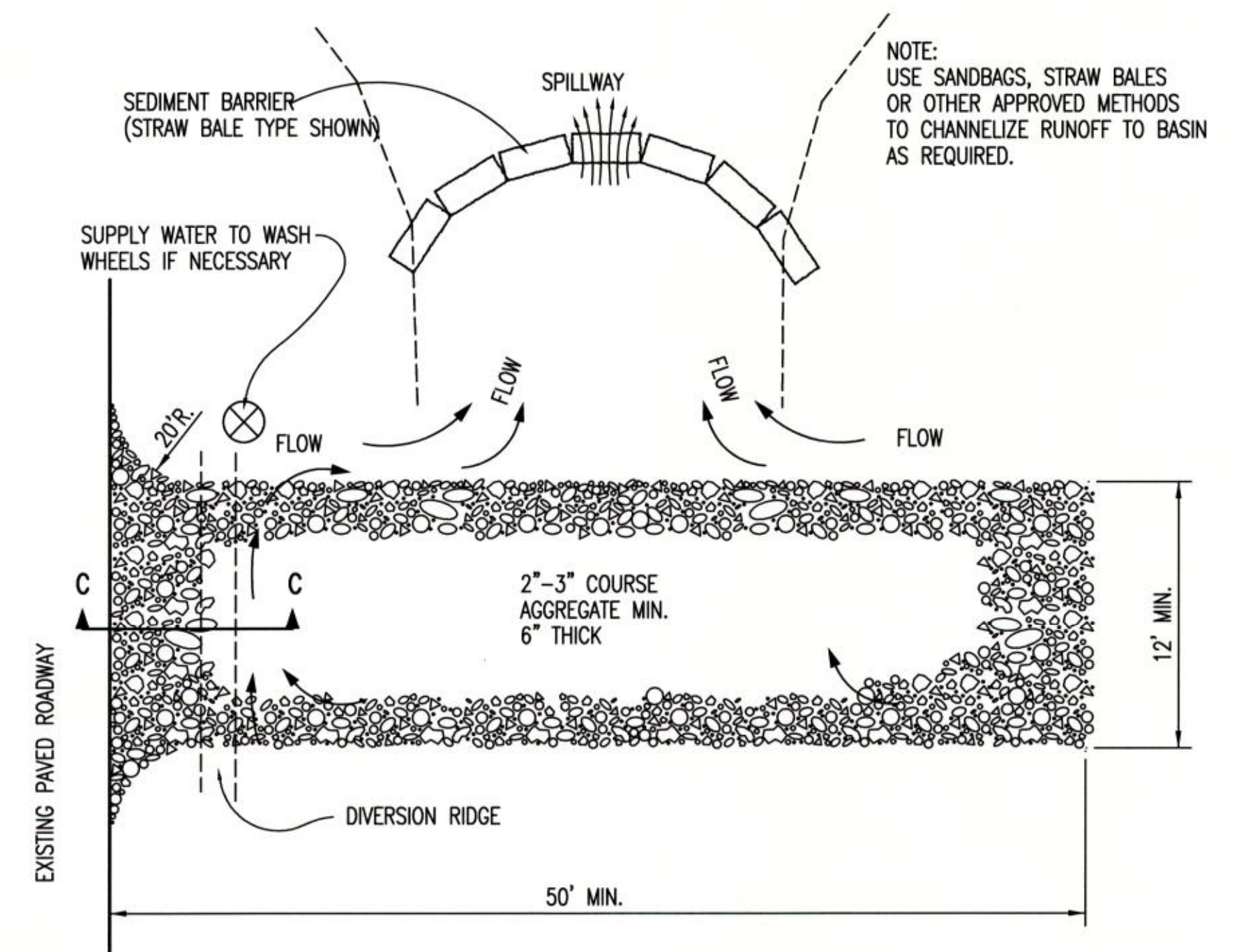


CURB INLET PROTECTION

4" PERFORATED PIPE W/ GRAVEL



SECTION C-C



STABILIZED CONSTRUCTION ENTRANCE

GENERAL NOTES

1. 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.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. 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.
4. 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
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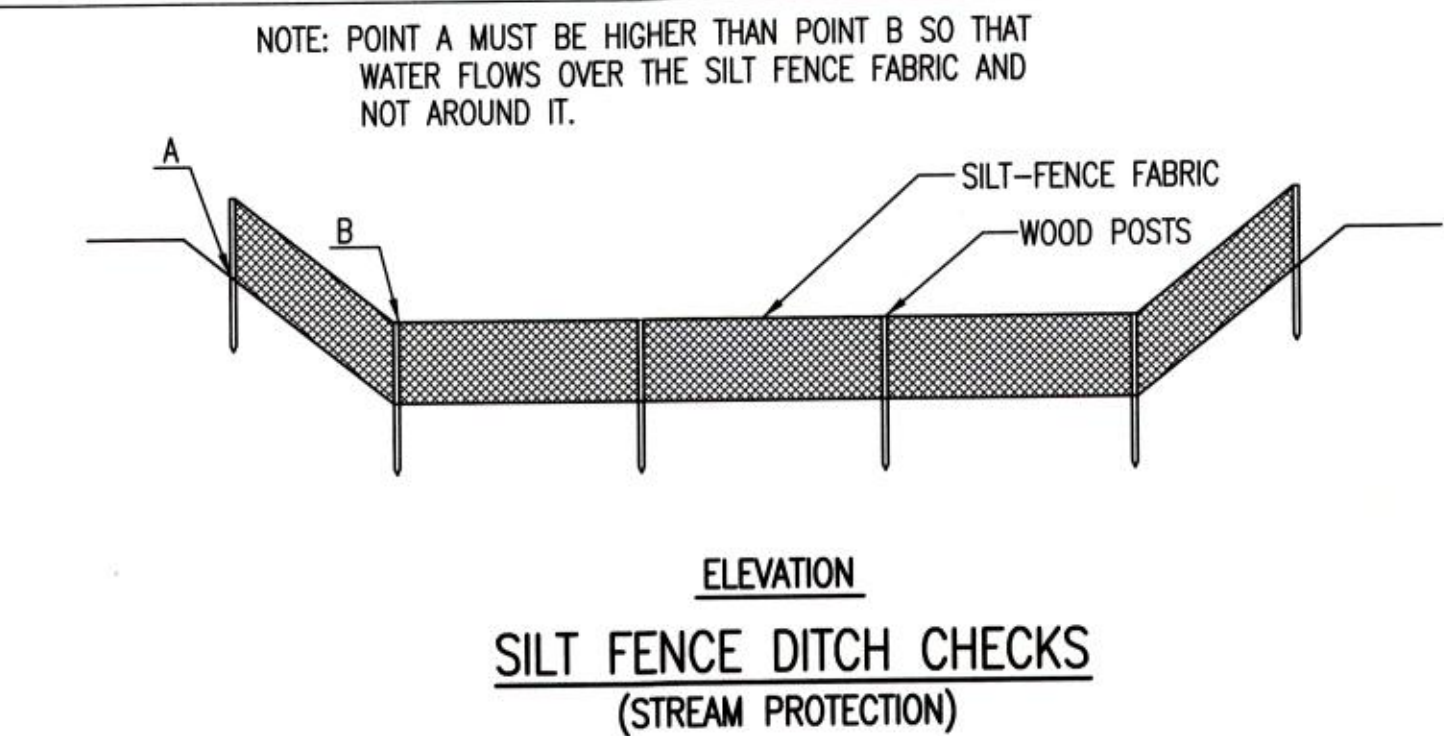
CITY ENGINEER'S OFFICE SHEET

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR

10 17

WICHITA, KANSAS 67202-1620
(316) 248-4501

(516) 266-4501



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.

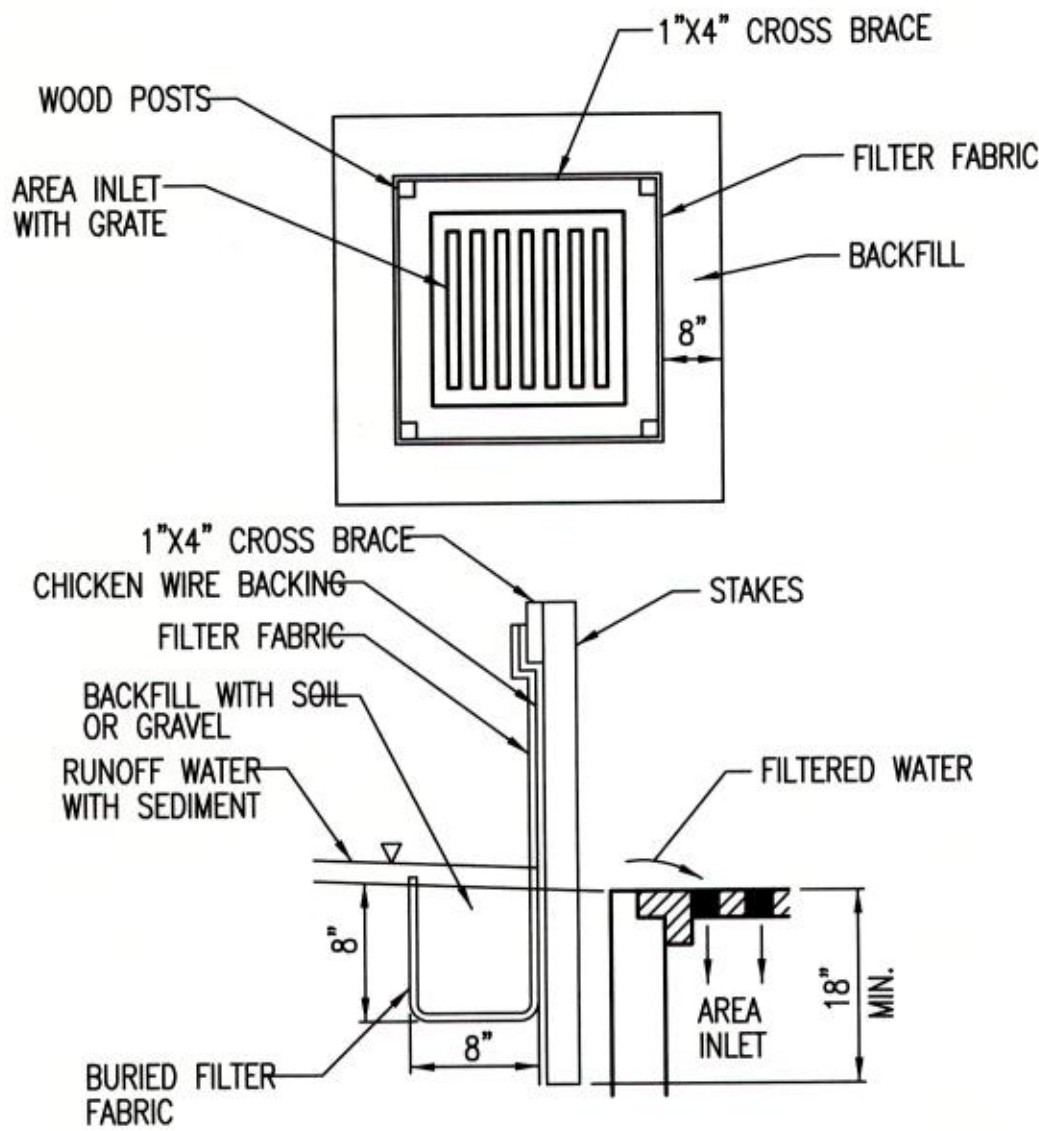
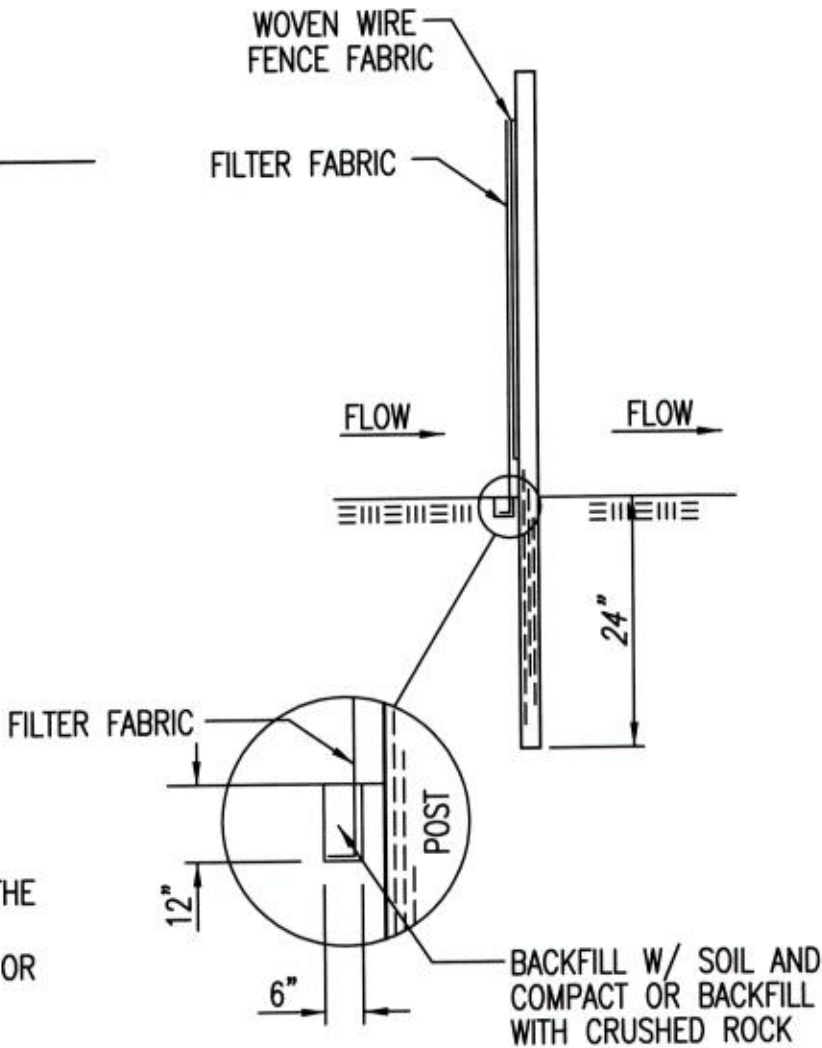
LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

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?



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.

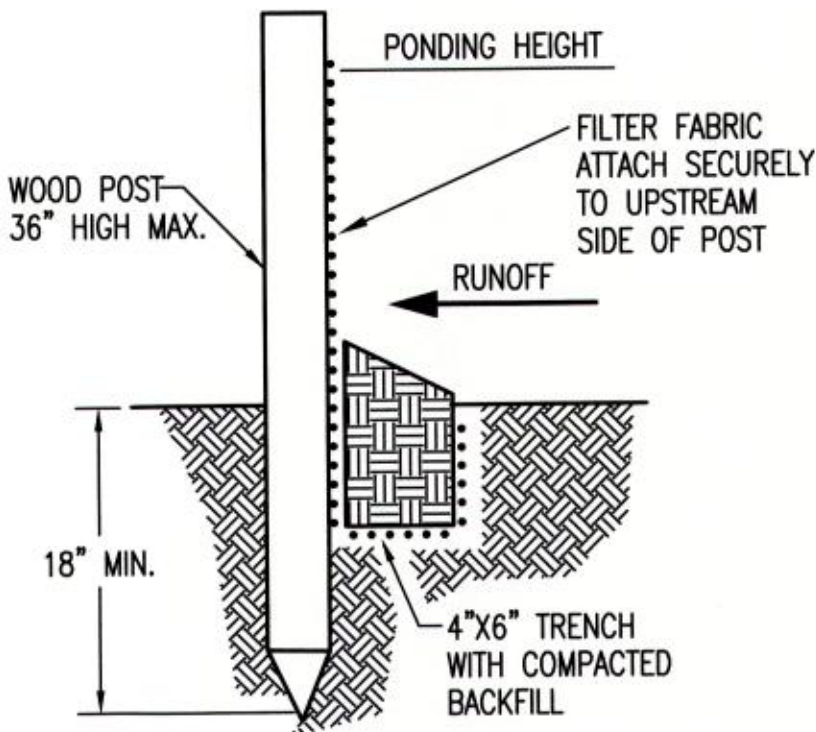
LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

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 RESISTED 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?



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:

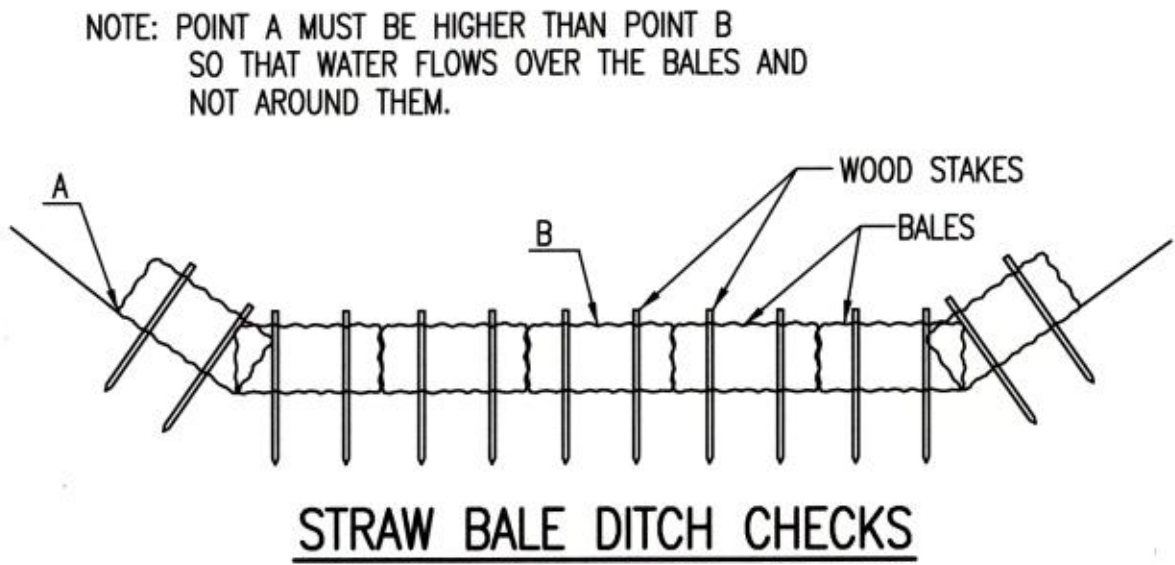
SILT FENCE SLOPE BARRIERS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

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?

REVISION DATE: MAY 2013



SILT FENCE DITCH CHECK AND BARRIER DETAILS		
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 11 of 17



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 DITCH GRADE (%)	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".

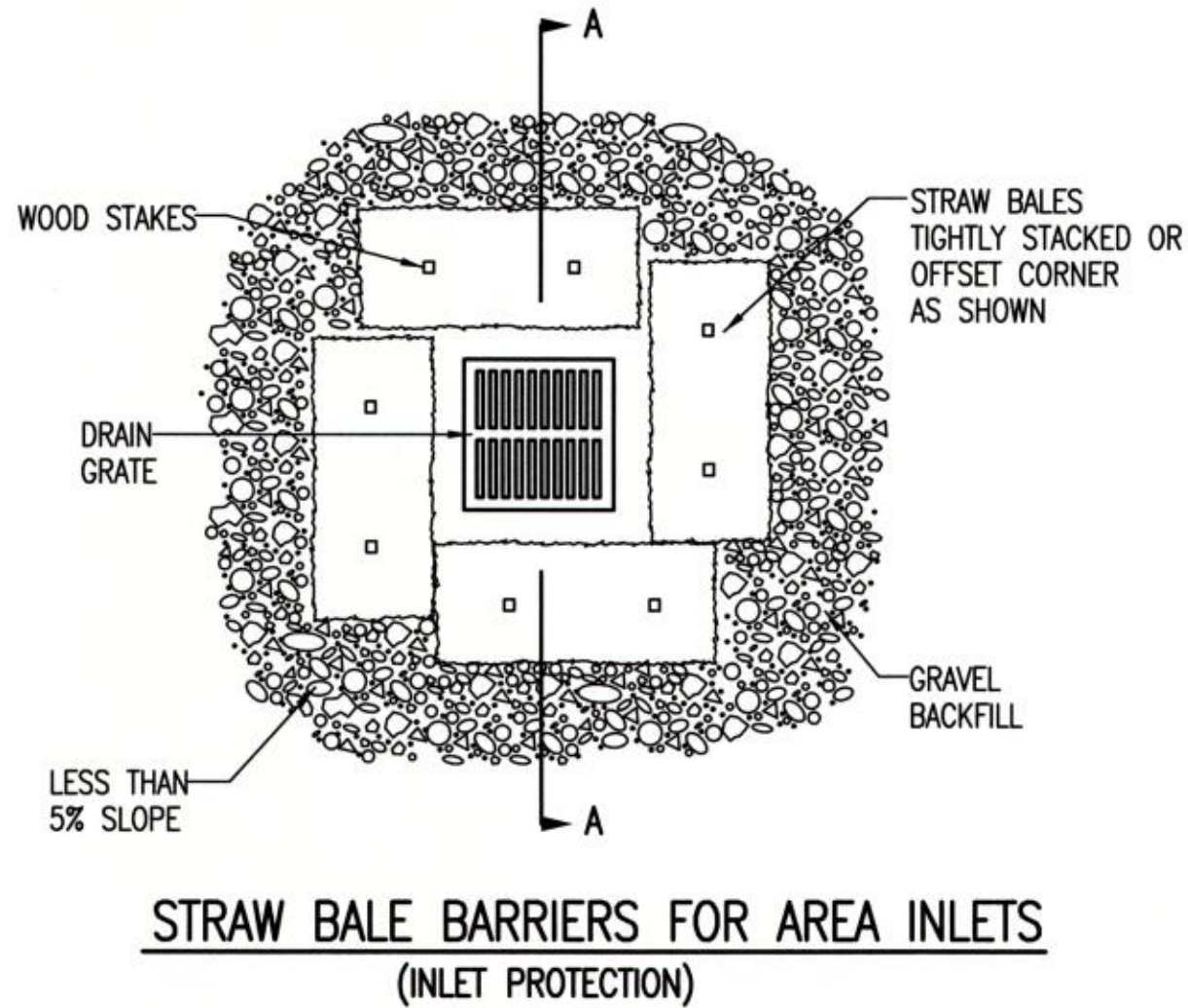
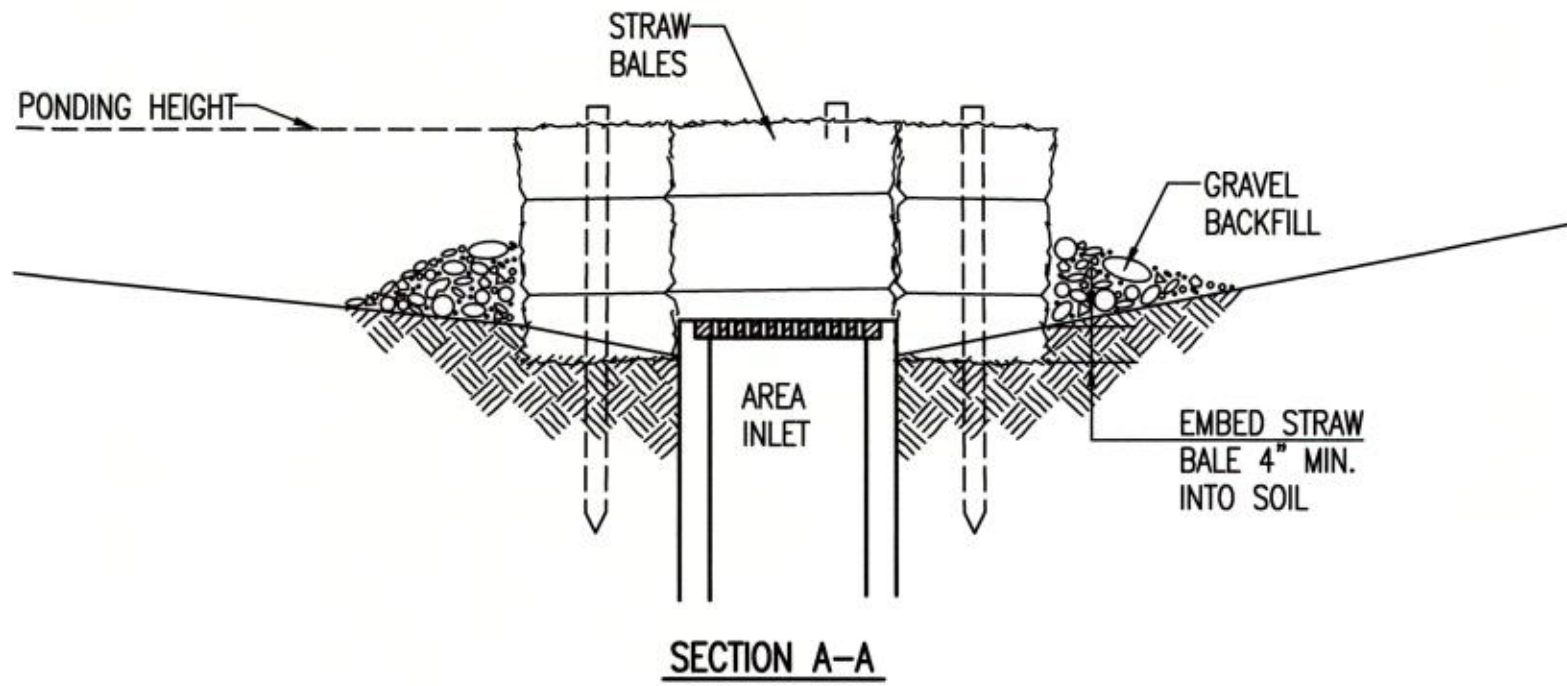
LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

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?



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.

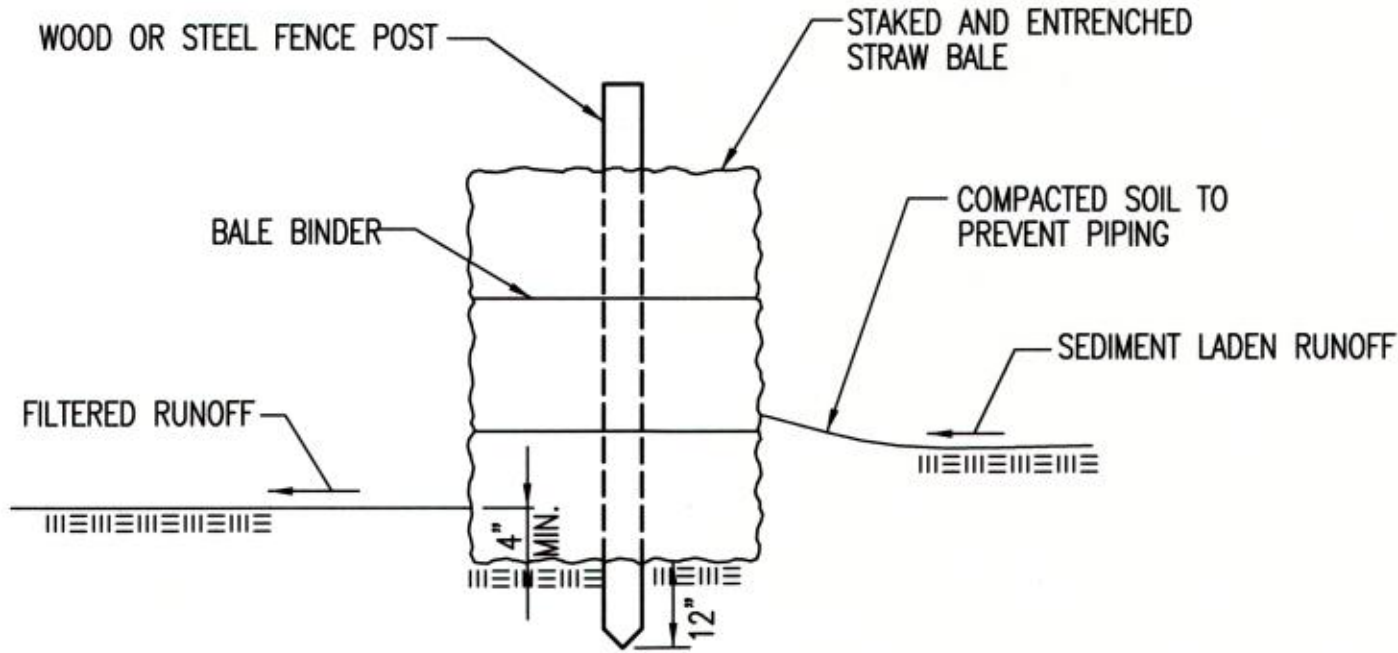
LIST OF COMMON PLACEMENT INSTALLATION MISTAKES TO AVOID:

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 OF 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?

REVISION DATE: MAY 2013



STRAW BALE DITCH CHECK AND BARRIER DETAILS		
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 12 of 17

GENERAL NOTES

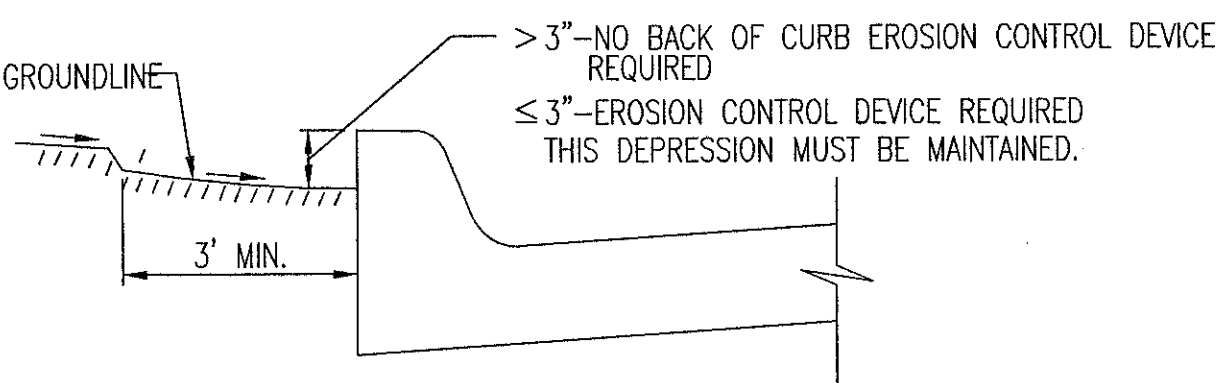
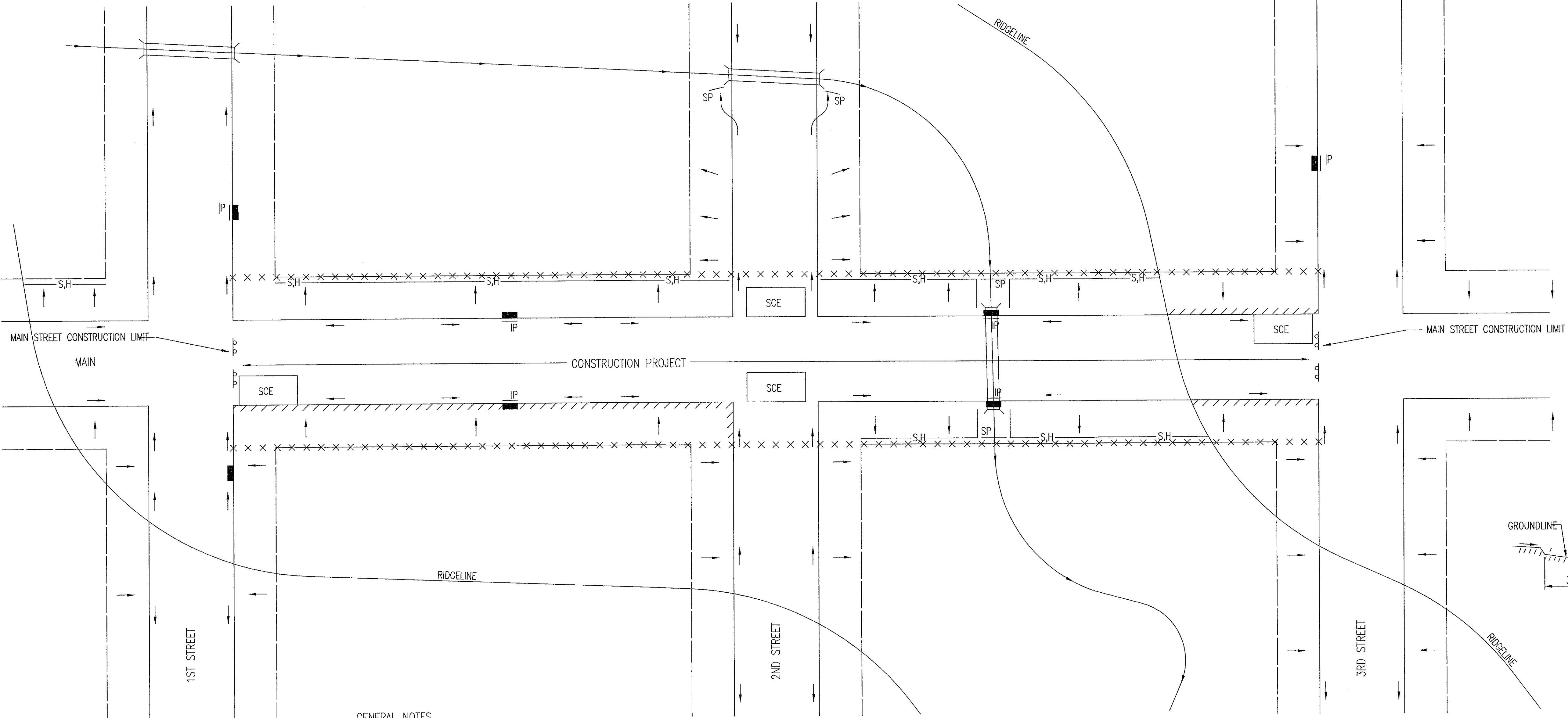
1. THIS SHEET IS INTENDED TO PROVIDE GUIDELINES AS TO WHAT TYPES OF EROSION CONTROL DEVICES WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS. CONTRACTORS ARE EXPECTED TO BID PROJECTS ACCORDINGLY.

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.



CURB BACKFILL DETAIL

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 CONTACTOR 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-0-W LIMITS
- DRAINAGE FLOW PATH
- × × × × ×

R/W LIMIT WITHIN CONSTRUCTION LIMIT
- STORM WATER INLETS
- IP

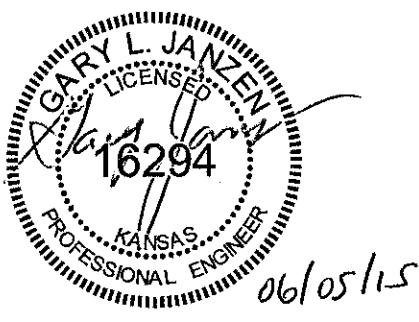
INLET PROTECTION
- S.H. —

SILT FENCE OR HAY BALE BARRIER
- SP

STREAM PROTECTION
- SCE

STABILIZED CONSTRUCTION ENTRANCE
- ////

BACK OF CURB PROTECTION

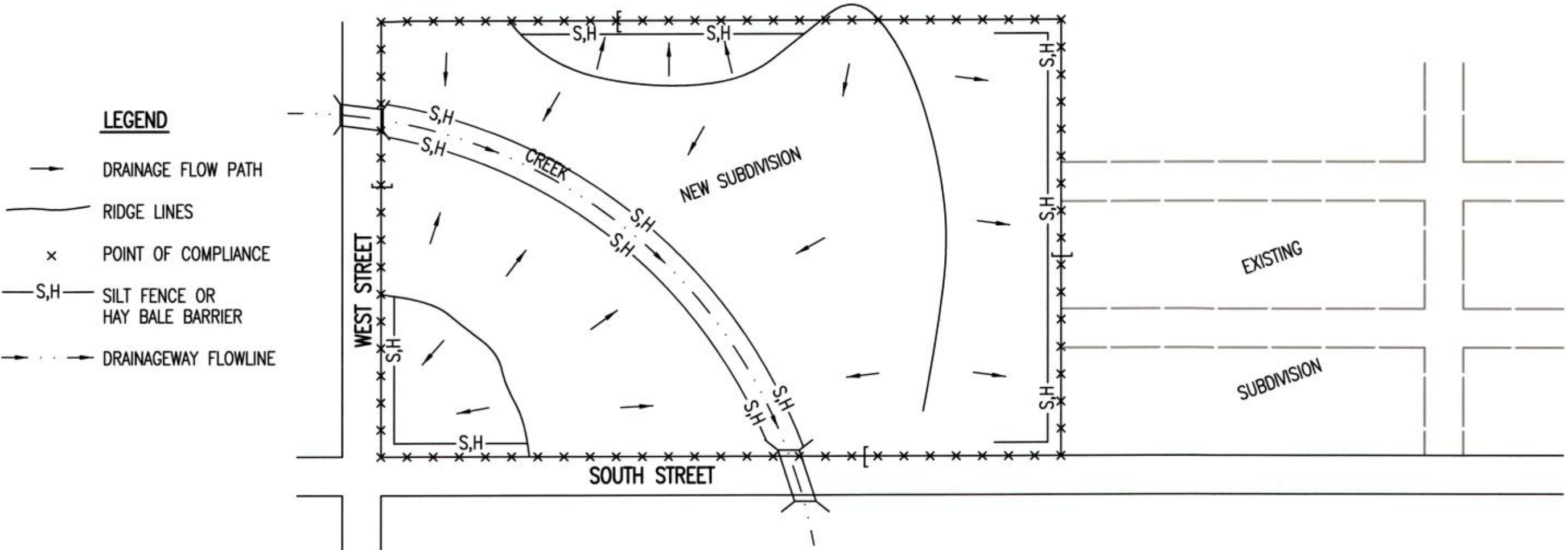




CITY OF WICHITA
PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

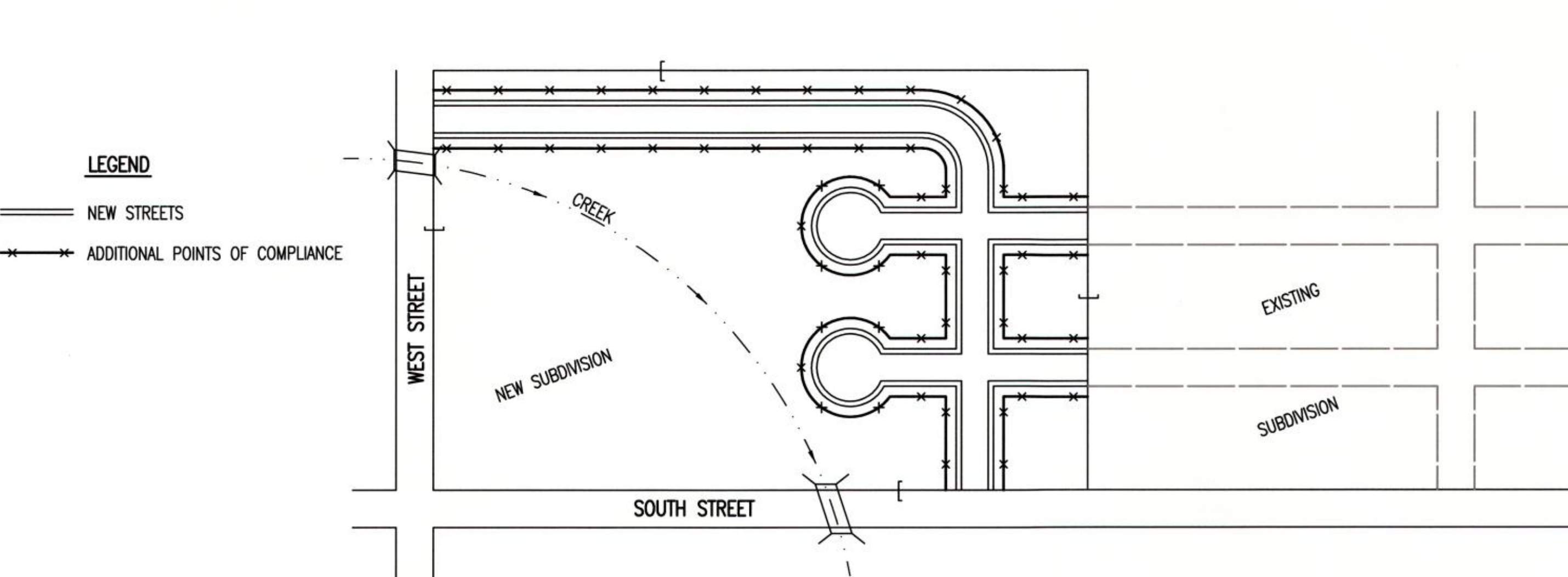
REVISION: JUNE 2015		
STREET IMPROVEMENT PROJECTS		
CITY ENGINEER GARY JANZEN, P.E.		
PROJECT NUMBER	OCA NUMBER	DATE
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		SHEET 13 of 17

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



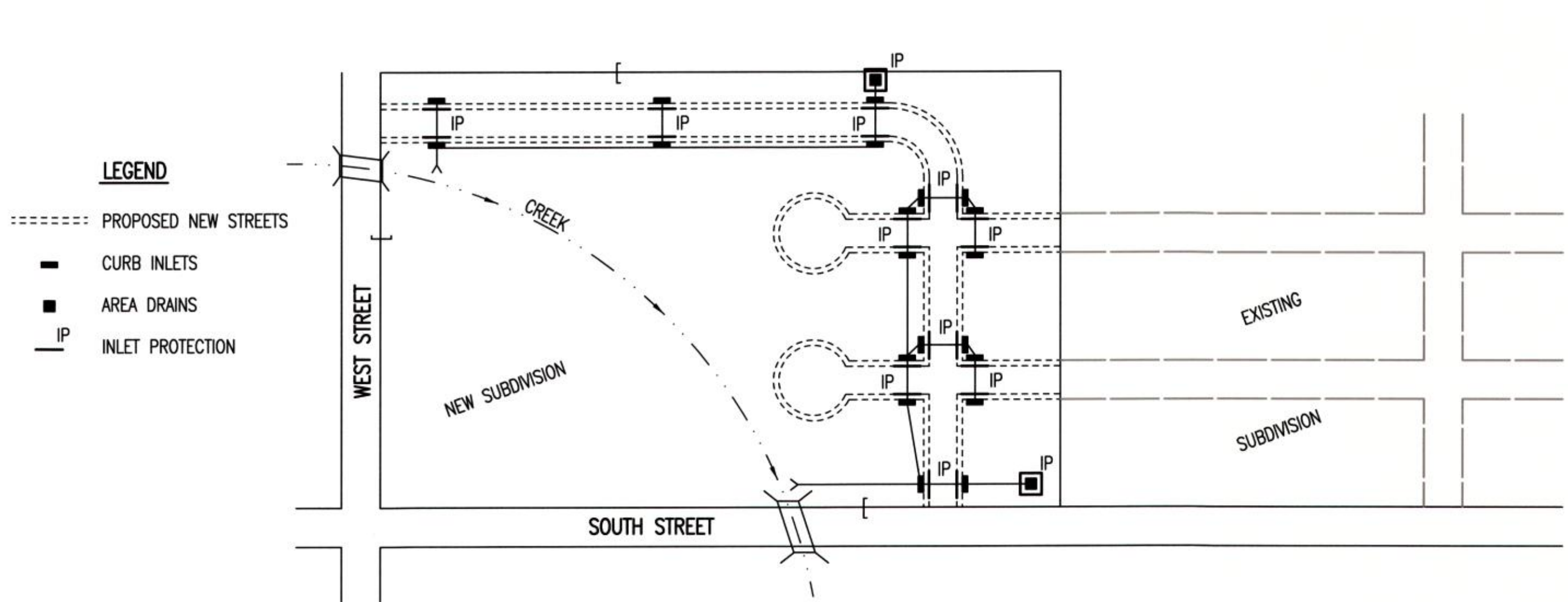
1. DURING THIS PHASE OF SUBDIVISION CONSTRUCTION, THE POINTS OF COMPLIANCE ARE THE PERIMETER BOUNDARIES AND ANY DRAINAGE WAYS OR STORM SEWERS DRAINING THROUGH OR FROM THE SITE. SHOULD LAKES BE CONSTRUCTED WITHIN THE SUBDIVISION THAT WILL DISCHARGE DURING STORMS, THEY ARE ALSO A POINT OF COMPLIANCE.
2. 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.
3. 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.
4. ANY MUD TRACKED ONTO ADJACENT STREETS WILL BE REMOVED WITHIN 48 HOURS OR BY FRIDAY AT 6:00 PM, WHICHEVER IS EARLIER.
5. 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.
6. UTILIZE STABILIZED CONSTRUCTION ENTRANCE AT ENTRANCE AND EXIT ONTO ANY EXISTING PUBLIC STREETS.
7. 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.
8. 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



1. 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.
2. CURB OPENING INLET PROTECTION:
A. SUMP AREAS – INLET PROTECTION SHALL BE PROVIDED WHEN STREET SUBGRADE WORK IS COMPLETED.
B. NON-SUMP LOCATIONS – PROVIDE INLET PROTECTION AS SOON AS BASE COURSE ASPHALT IS INSTALLED, BEFORE THE SURFACE COURSE LIFT.
3. 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.
4. SEE DETAIL SHEET FOR BACK OF CURB PROTECTION.
5. 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.
6. THE STREET CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING BACK OF CURB EROSION CONTROL DEVICES.
7. 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

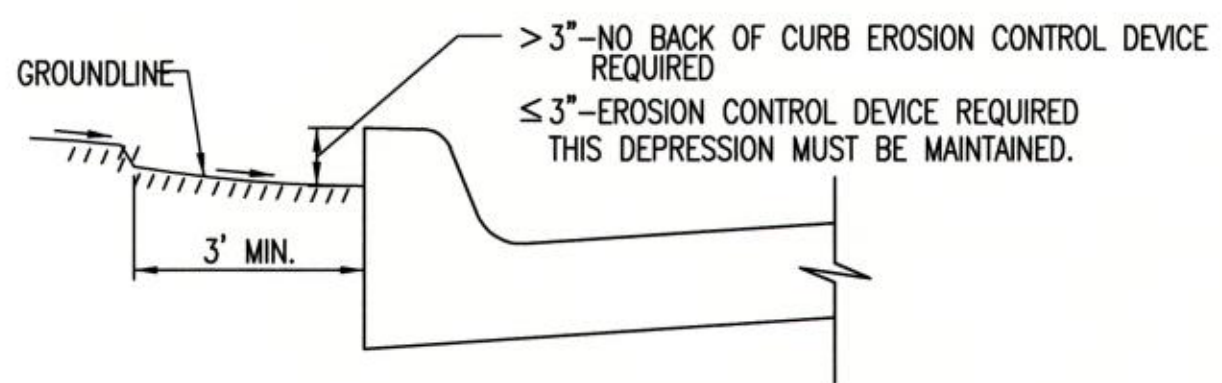


1. DURING THIS PHASE OF SUBDIVISION DEVELOPMENT, ALL EROSION CONTROL DEVICES REQUIRED IN PHASE 1 SHALL REMAIN IN PLACE AND BE MAINTAINED.
2. AS NEW STORM SEWERS, WITH INLETS, ARE INSTALLED, THE STORM SEWERS MUST NOW BE PROTECTED SO ALL NEW INLETS BECOME POINTS OF COMPLIANCE.
3. AREA DRAINS – AS SOON AS WATER CAN FLOW INTO THESE DRAINS, HAY BALE OR SILT FENCE PROTECTION WILL BE INSTALLED AROUND THEM.
4. 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.
5. THE STORM SEWER CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING THESE DEVICES.
6. THE SUBDIVISION DEVELOPER WILL MAINTAIN THESE EROSION CONTROL DEVICES ONCE INSTALLED.
7. 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.
8. 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

1. 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.
2. 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.
3. 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.
4. PERSONS DESTROYING EROSION CONTROL DEVICES SHALL BE RESPONSIBLE FOR IMMEDIATELY REPAIRING THEM OR INSTALLING SUITABLE REPLACEMENT DEVICES.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.

SEE DETAIL SHEET FOR
BACK OF CURB PROTECTION DETAIL



CURB BACKFILL DETAIL
(STREET CONSTRUCTION ONLY)

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.

REVISION DATE: MAY 2013



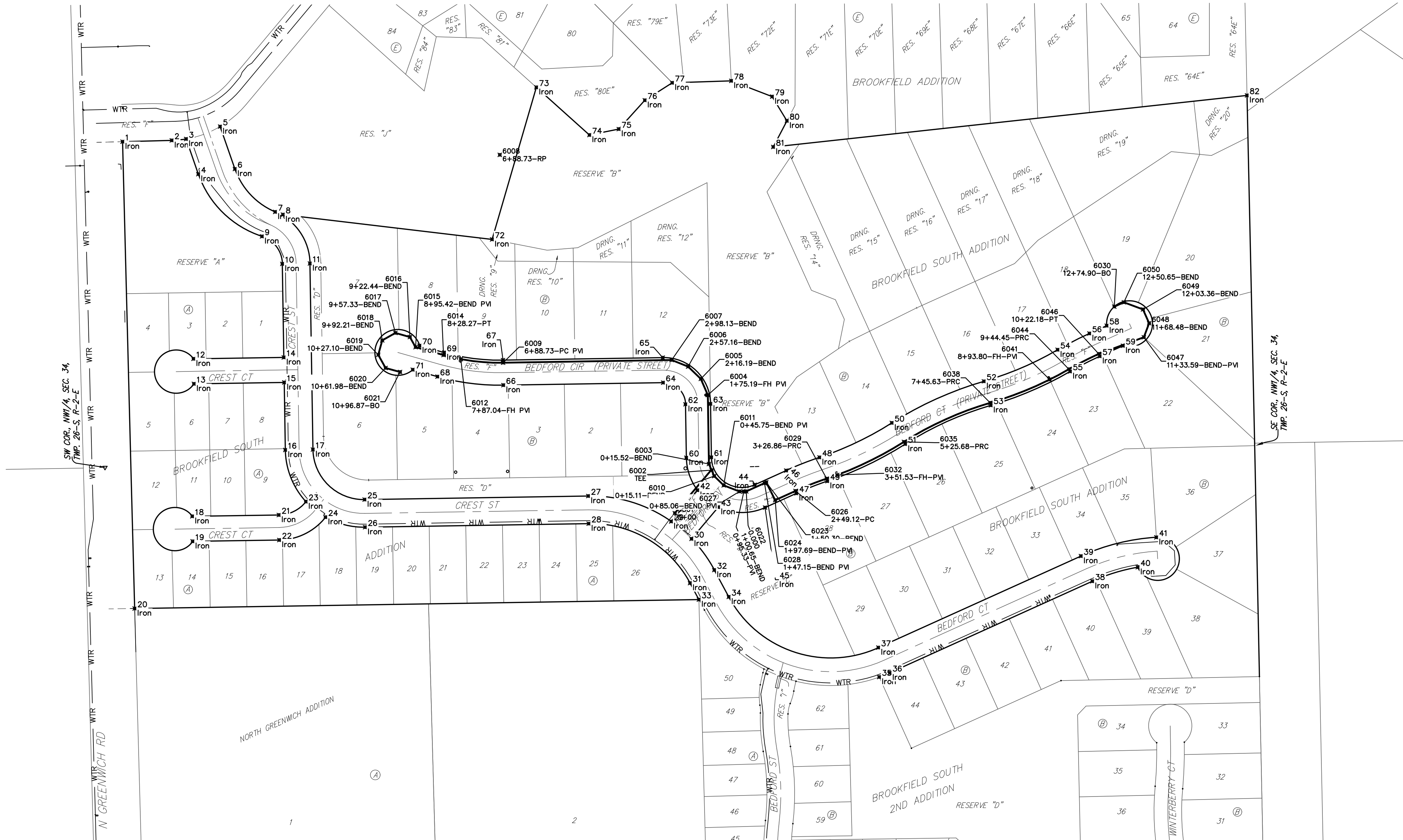
CITY OF WICHITA
PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

SUBDIVISION DEVELOPMENT PROCESS		
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 14 of 17

BENCHMARKS:
RR spike in asphalt, SW Cor.,
N1/2, SW1/4, Sec. 34, TWP. 26-S,
R-2-E.
Elev. = 1400.59 NAVD

R.R. spike in E. face of power pole,
174± N. of S. line, N1/2, SW1/4
& 49± E. of W. line, SW1/4, SEC.
34, TWP. 26-S, R-2-E.
Elev. = 1398.64 NAVD88

RR. spike in S. face of power pole,
294± S. of N. line, SW1/4, &
48± E. of W. line, SW1/4, SEC. 34,
TWP. 26-S, R-2-E.
Elev. = 1386.14 NAVD88

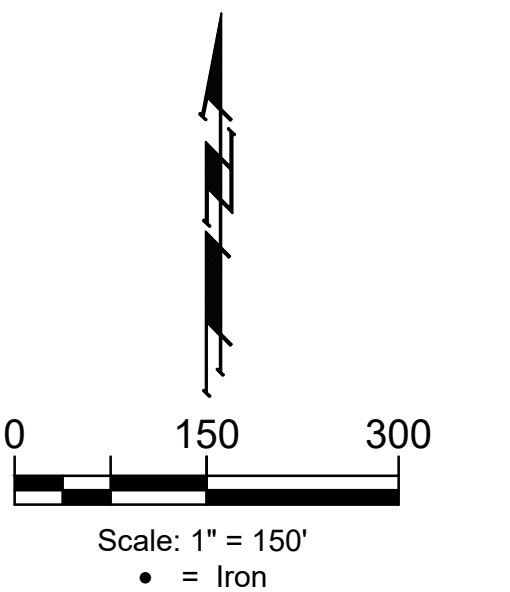


CONTROL POINTS			
Point #	Northing	Easting	Description
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2	1,708,330.02	1,686,041.74	Iron
3	1,708,333.28	1,686,075.00	Iron
4	1,708,251.88	1,686,103.36	Iron
5	1,708,362.21	1,686,153.87	Iron
6	1,708,263.86	1,686,188.14	Iron
7	1,708,164.42	1,686,281.33	Iron
8	1,708,157.98	1,686,299.37	Iron
9	1,708,107.54	1,686,250.87	Iron
10	1,708,043.94	1,686,297.89	Iron
11	1,708,044.96	1,686,361.88	Iron
12	1,707,823.82	1,686,092.10	Iron
13	1,707,765.83	1,686,093.02	Iron
14	1,707,827.16	1,686,301.34	Iron
15	1,707,769.16	1,686,302.27	Iron
16	1,707,612.68	1,686,304.76	Iron
17	1,707,613.70	1,686,368.75	Iron
18	1,707,458.73	1,686,089.23	Iron
19	1,707,400.74	1,686,090.15	Iron
20	1,707,245.20	1,685,955.85	Iron
21	1,707,461.93	1,686,289.83	Iron
22	1,707,403.93	1,686,290.76	Iron
23	1,707,492.79	1,686,352.40	Iron
24	1,707,456.76	1,686,397.86	Iron
25	1,707,497.60	1,686,488.62	Iron
26	1,707,433.61	1,686,489.64	Iron
27	1,707,505.86	1,687,006.55	Iron
28	1,707,441.86	1,687,007.57	Iron
29	1,707,446.93	1,687,198.59	Iron
30	1,707,408.66	1,687,245.74	Iron
31	1,708,303.98	1,687,242.21	Iron
32	1,707,334.23	1,687,298.61	Iron
33	1,707,265.81	1,687,262.67	Iron
34	1,707,272.02	1,687,331.97	Iron
35	1,707,086.27	1,687,680.49	Iron
36	1,707,096.18	1,687,704.95	Iron
37	1,707,154.49	1,687,678.58	Iron
38	1,707,308.38	1,688,174.16	Iron
39	1,707,366.69	1,688,147.79	Iron
40	1,707,340.74	1,688,279.50	Iron
41	1,707,410.13	1,688,322.40	Iron

WTR POINTS			
Point #	Northing	Easting	Description
6001	1,707,466.08	1,687,206.90	0+00
6002	1,707,565.88	1,687,292.23	TEE
6003	1,707,580.12	1,687,286.06	0+15.52-BEND
6004	1,707,739.77	1,687,283.52	1+75.19-FH PVI
6005	1,707,777.40	1,687,267.23	2+16.19-BEND
6006	1,707,805.90	1,687,237.80	2+57.16-BEND
6007	1,707,820.98	1,687,199.70	2+98.13-BEND
6008	1,708,296.61	1,686,801.47	6+88.73-RP
6009	1,707,814.75	1,686,809.15	6+88.73-PC PVI
6010	1,707,552.01	1,687,298.24	0+15.11-BEND
6011	1,707,530.70	1,687,320.24	0+45.75-BEND PVI
6012	1,707,823.18	1,686,711.38	7+87.04-FH PVI
6013	1,707,516.40	1,687,367.07	0+95.33-PVI
6014	1,707,832.61	1,686,671.26	8+28.27-PT
6015	1,707,850.76	1,686,606.60	8+95.42-BEND PVI
6016	1,707,874.32	1,686,593.36	9+22.44-BEND
6017	1,707,883.74	1,686,559.78	9+57.33-BEND
6018	1,707,866.65	1,686,529.36	9+92.21-BEND
6019	1,707,833.07	1,686,519.94	10+27.10-BEND
6020	1,707,802.65	1,686,537.03	10+61.98-BEND

CONTROL POINTS			
Point #	Northing	Easting	Description
42	1,707,519.27	1,687,259.60	Iron
43	1,707,480.05	1,687,307.64	Iron
44	1,707,531.97	1,687,392.07	Iron
45	1,707,479.12	1,687,415.97	Iron
46	1,707,564.93	1,687,464.96	Iron
47	1,707,512.09	1,687,488.86	Iron
48	1,707,595.28	1,687,542.11	Iron
49	1,707,540.31	1,687,560.61	Iron
50	1,707,675.34	1,687,709.78	Iron
51	1,707,626.39	1,687,740.90	Iron
52	1,707,771.71	1,687,922.89	Iron
53	1,707,716.02	1,687,939.10	Iron
54	1,707,844.75	1,688,093.74	Iron
55	1,707,794.55	1,688,122.80	Iron
56	1,707,882.65	1,688,167.47	Iron
57	1,707,828.80	1,688,191.37	Iron
58	1,707,900.68	1,688,207.36	Iron
59	1,707,854.15	1,688,245.22	Iron
60	1,707,594.60	1,687,233.83	Iron
61	1,707,595.53	1,687,291.82	Iron
62	1,707,718.48	1,687,231.85	Iron
63	1,707,719.40	1,687,289.84	Iron
64	1,707,768.66	1,687,180.05	Iron
65	1,707,826.63	1,687,179.12	Iron
66	1,707,762.76	1,686,809.98	Iron
67	1,707,820.75	1,686,809.06	Iron
68	1,707,782.54	1,686,657.23	Iron
69	1,707,838.38	1,686,672.90	Iron
70	1,707,854.42	1,686,615.74	Iron
71	1,707,798.58	1,686,600.07	Iron
72	1,708,100.66	1,686,783.81	Iron
73	1,708,452.99	1,686,886.36	Iron
74	1,708,342.53	1,687,009.18	Iron
75	1,708,356.21	1,687,077.37	Iron
76	1,708,423.09	1,687,137.52	Iron
77	1,708,463.53	1,687,200.91	Iron
78	1,708,468.12	1,687,337.71	Iron
79	1,708,431.69	1,687,432.50	Iron
80	1,708,375.36	1,687,466.71	Iron
81	1,708,314.79	1,687,434.98	Iron
82	1,708,434.40	1,688,532.32	Iron

WTR POINTS			
Point #	Northing	Easting	Description
6021	1,707,793.23	1,686,570.61	10+96.87-BO
6022	1,707,516.48	1,687,372.38	1+00.65-BEND
6023	1,707,537.50	1,687,418.85	1+50.30-BEND
6024	1,707,496.36	1,687,439.52	1+97.69-BEND-PVI
6026	1,707,517.55	1,687,486.39	2+49.12-PC
6027	1,707,516.23	1,687,356.79	0+85.06-BEND PVI
6028	1,707,535.64	1,687,414.75	1+47.15-BEND PVI
6029	1,707,545.99	1,687,558.70	3+26.86-PRC
6030	1,707,944.94	1,688,225.02	12+74.90-BO
6032	1,707,554.68	1,687,583.23	3+51.53-FH-PVI
6035	1,707,631.45	1,687,737.68	5+25.68-PRC
6038	1,707,721.79	1,687,937.42	7+45.63-PRC
6041	1,707,775.74	1,688,075.21	8+93.80-FH-PVI
6044	1,707,799.75	1,688,119.79	9+44.45-PRC
6046	1,707,835.27	1,688,188.90	10+22.18-PT
6047	1,707,873.82	1,688,293.43	11+33.59-BEND-PVI
6048	1,707,906.46	1,688,305.74	11+68.48-BEND
6049	1,707,938.24	1,688,291.36	12+03.36-BEND
6050	1,707,954.93	1,688,247.12	12+50.65-BEND



**BAUGHMAN
COMPANY**

315 Ellis St.
Wichita, KS 67211
BaughmanCo.com

Brookfield South Addition
Phase 6 & Phase 7

COORDINATES

WATER LINE
IMPROVEMENTS
PROJECT NUMBER:

DESIGN: AEG DRAWN: JAK
DATE: Jan. 13, 2025
SHEET **15** OF **17**

File: C:\Projects\Brookfield South 2nd Addition\Engineering\Phase 6\WTR_24-06-E825.dwg

BROOKFIELD SOUTH ADDITION

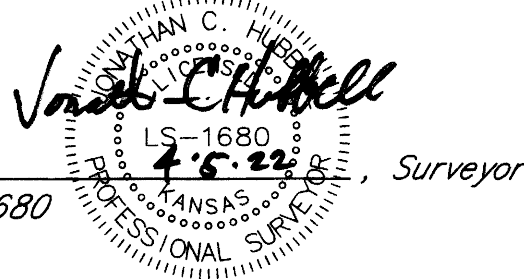
WICHITA, SEDGWICK COUNTY, KANSAS

State of Kansas) SS We, Baughman Company, P.A., Surveyors in
Sedgwick County) Sedgwick County) do hereby certify that we have surveyed and
aforesaid county and state do hereby certify that we have surveyed and
platted "BROOKFIELD SOUTH ADDITION", Wichita, Sedgwick County, Kansas
and that the accompanying plat is a true and correct exhibit of the
property surveyed, described as the Northwest Quarter of Section 34,
Township 26 South, Range 2 East of the Sixth Principal Meridian, Sedgwick
County, Kansas, EXCEPT that part of said Northwest Quarter platted as
Brookfield Addition, Wichita, Sedgwick County, Kansas, and EXCEPT that
part of said Northwest Quarter platted as Courtyards at Brookfield
Addition, an Addition to Wichita, Sedgwick County, Kansas, subject to road
rights-of-way of record abutting that part of the west line of said
Northwest Quarter lying south of and abutting the south line of said
Brookfield Addition, TOGETHER with that part of the Southwest Quarter of
Section 34, Township 26 South, Range 2 East of the Sixth Principal
Meridian, Sedgwick County, Kansas described as follows: Beginning at the
northeast corner of said Southwest Quarter; thence S01°10'17"E coincident
with the east line of the North Half of said Southwest Quarter, a distance
of 535.21 feet; thence S88°49'43"W, a distance of 459.73 feet; thence
S65°39'55"W, a distance of 380.23 feet; thence N24°20'05"W, a distance
of 181.05 feet to a point on a curve to the right; thence westerly and
northwesterly coincident with said curve, through a central angle of
81°34'25" and having a radius of 332.00 feet, an arc distance of 472.68
feet, (having a chord length of 433.76 feet bearing N68°59'27"W), to the
point of tangency of said curve; thence N28°12'15"W, a distance of 27.27
feet to the northeast corner of North Greenwich Addition, Wichita,
Sedgwick County, Kansas; thence S89°05'37"W (calculated from platted
information), S89°05'47"W (measured), coincident with the north line of
said North Greenwich Addition, a distance of 1366.89 feet (platted),
1366.99 feet (measured), to the intersection with the west line of said
Southwest Quarter; thence N01°33'21"W coincident with the west line of
said Southwest Quarter, a distance of 327.95 feet (platted), 327.94 feet
(calculated from measured information), to the northwest corner of said
Southwest Quarter; thence N88°54'56"E coincident with the north line of
said Southwest Quarter, a distance of 266.376 feet to the point of
beginning, subject to road rights-of-way of record abutting that part of
the west line of said Southwest Quarter lying north of and abutting the
north line of said North Greenwich Addition.

Existing public easements, building setbacks,
access controls, and dedications, if any, being
vacated by virtue of K.S.A. 12-512b, as amended.

Baughman Company, P.A.

Jonathan C. Hubbell, P.S.#1680

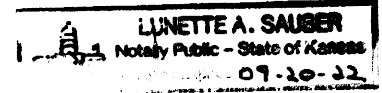


We the undersigned holders of a mortgage on the
above described property, do hereby consent to this plat of "BROOKFIELD
SOUTH ADDITION", Wichita, Sedgwick County, Kansas.

INTRUST Bank, N.A.

Brian Blackerby, Commercial Relationship Mgr.
(Title)

State of Kansas) SS The foregoing instrument acknowledged be-
Sedgwick County) fore me, this 7th day of April, 2022, by Brian Blackerby,
Commercial Relationship Mgr. of INTRUST Bank, N.A., on behalf of the bank.



My App't. Exp. 09-30-2022

Lunette A. Sauber, Notary Public
LUNETTE A. SAUBER

Know all men by these presents that we, the
undersigned, have caused the land in the surveyors certificate to be
platted into Lots, Blocks, Streets and Reserves to be known as
"BROOKFIELD SOUTH ADDITION", 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. The drainage and utility easements are hereby granted to the
public as indicated for drainage purposes and for the construction and
maintenance of all public utilities. The contingent sanitary sewer easement
is for the construction and maintenance of a public sanitary sewer main
and related appurtenances and shall become effective when the City of
Wichita installs a sanitary sewer main to allow for the elimination of the
existing lift station in Brookfield Addition. No permanent foundations
and/or structures shall be located within the contingent sanitary sewer
easement unless permitted by the City of Wichita Department of
Engineering. 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. 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. The wall
easement is hereby granted as indicated for the construction and
maintenance of a private screening wall and utility main lines and service
lines shall be allowed to cross this easement. The streets are hereby
dedicated to and for the use of the public. Any cul-de-sac with a 53
foot radius right-of-way shall have a pavement radius of 38 feet.
Reserve "A" is hereby reserved for open space, landscaping, drainage
purposes, berms, entry monuments, walls, fences, signage, sidewalks/walking
paths, floodplain, water lines and related appurtenances as confined to
easement, and utilities as confined to easements. Reserve "B" is hereby
reserved for open space, landscaping, drainage purposes, lakes, berms,
entry monuments, sidewalks/walking paths, floodplain, streets as
confined to easement, and utilities as confined to easements. Reserve "D"
is hereby reserved for open space, landscaping, drainage purposes, berms,
entry monuments, walls, fences, sidewalks, streets as confined to easement,
and utilities as confined to easements. Reserve "E" is hereby reserved for
open space, landscaping, drainage purposes, entry monuments, streets, and
utilities. Reserve "F" is hereby reserved for open space, landscaping,
drainage purposes, utilities, sidewalks, and private streets. No fill, change
of grade, creation of channel, or any other work shall be carried on within
said Reserves "A", "B", and "C" without the permission of the Engineer for
the appropriate governing body. Reserves "A", "B", "C", "D", "E", and "F",
shall be owned and maintained by the homeowners association for the
addition provided, however, that the undersigned, or the homeowners
association, as the undersigned's successor in interest, may, in their
discretion, deed a parcel of a Reserve to an owner or owners of an
adjacent Lot, subject to the obligation to maintain such deeded parcel of
a Reserve in compliance with the provisions hereof and in compliance with
the maintenance covenants or any applicable restrictive covenants and/or
regulations. Compliance with any platted restrictions and applicable
restrictive covenants affecting said Reserves shall be binding on any owners,
successors, heirs, or assigns. Drainage Reserves "9", "10", "11", "12", "14",
"15", "16", "17", "18", "19" and "20" are hereby reserved for open space,
landscaping, drainage reserve purposes, floodplain, sanitary sewer as
confined to easement, and utilities as confined to easements. No fill,
change of grade, creation of channel, or any other work shall be carried on
within said floodplain without the permission of the Engineer for the
appropriate governing body. Drainage Reserves "9", "10", "11", "12", "14",
"15", "16", "17", "18", "19" and "20" shall be owned and maintained by the
owners of the corresponding adjacent lots and shall be the responsibility of
said corresponding adjacent lot owners until such time as the appropriate
governing body elects to assume the responsibility for maintenance and
improvements to the drainage. FEMA floodplain and regulatory floodway
boundaries are subject to periodic change and such change may affect the
intended land use within the subdivision. Access controls shall be as
depicted on the face of the plat and are hereby granted to the appropriate
governing body as indicated on the face of the plat. The Minimum
Building Pad Elevations for the lowest opening to the structures shall be as
indicated on the face of the plat.

37th & Greenwich, LLC,
a Kansas limited liability company

Jeff Mullen, Manager
Jeff Mullen, President/CEO of
Ritchie Development, LLC,
a Kansas limited liability company

State of Kansas) SS The foregoing instrument acknowledged before
Sedgwick County) me, this 6th day of April, 2022, by Jeff Mullen, President/CEO
of Ritchie Development, LLC, a Kansas limited liability company, as
Manager of 37th & Greenwich, LLC, a Kansas limited liability company, on
behalf of the limited liability company.



Lunette A. Sauber, Notary Public
LUNETTE A. SAUBER
My App't. Exp. 09-30-2022

37th & Greenwich Investments, LLC,
a Kansas limited liability company

Jeff Mullen, Manager
Jeff Mullen, President/CEO of
Ritchie Development, LLC,
a Kansas limited liability company

State of Kansas) SS The foregoing instrument acknowledged before
Sedgwick County) me, this 6th day of April, 2022, by Jeff Mullen, President/CEO
of Ritchie Development, LLC, a Kansas limited liability company, as
Manager of 37th & Greenwich Investments, LLC, a Kansas limited liability
company, on behalf of the limited liability company.



Lunette A. Sauber, Notary Public
LUNETTE A. SAUBER
My App't. Exp. 09-30-2022

Greenwich Investments, LLC,
a Kansas limited liability company

Jeff Mullen, Manager
Jeff Mullen, President/CEO of
Ritchie Associates, LLC,
a Kansas limited liability company

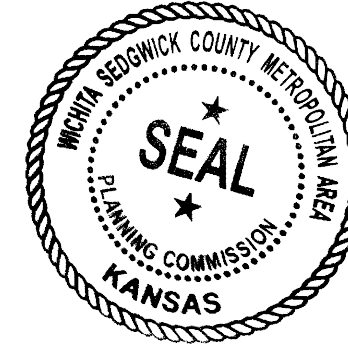
State of Kansas) SS The foregoing instrument acknowledged before
Sedgwick County) me, this 6th day of April, 2022, by Jeff Mullen, President/CEO
of Ritchie Associates, LLC, a Kansas limited liability company, as Manager
of Greenwich Investments, LLC, a Kansas limited liability company, on
behalf of the limited liability company.



Lunette A. Sauber, Notary Public
LUNETTE A. SAUBER
My App't. Exp. 09-30-2022

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

Dated this 3rd day of February, 2022.
Wichita-Sedgwick County Metropolitan Area Planning Commission



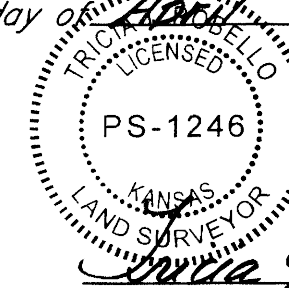
William M. Johnson, Chair
William M. Johnson

Scott A. Wadle, Secretary
Scott A. Wadle

This plat approved and all dedications
shown hereon accepted by the City Council of the City of Wichita,
Kansas, this 3rd day of May, 2022.

Brandon J. Whipple, Mayor
Brandon J. Whipple City of Wichita
Karen Sublett, City Clerk
Karen Sublett

Reviewed in accordance with K.S.A. 58-2005
on this 13th day of April, 2022.



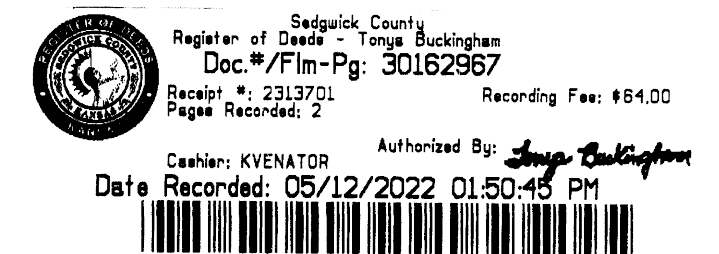
Tricia L. Robello, P.S. #1246
Deputy County Surveyor
Sedgwick County, Kansas

Entered on transfer record this 11th day
of May, 2022.
Kelly B. Arnold, County Clerk
Kelly B. Arnold

State of Kansas) SS This is to certify that this plat has been
Sedgwick County) filed for record in the office of the Register of Deeds, this 12th day
of May, 2022 at 1:50:45 clock P.M. and is duly recorded.

Tonya Buckingham, Register of Deeds
Tonya Buckingham

Kenny Zehring, Deputy
Kenny Zehring



BROOKFIELD SOUTH ADDITION

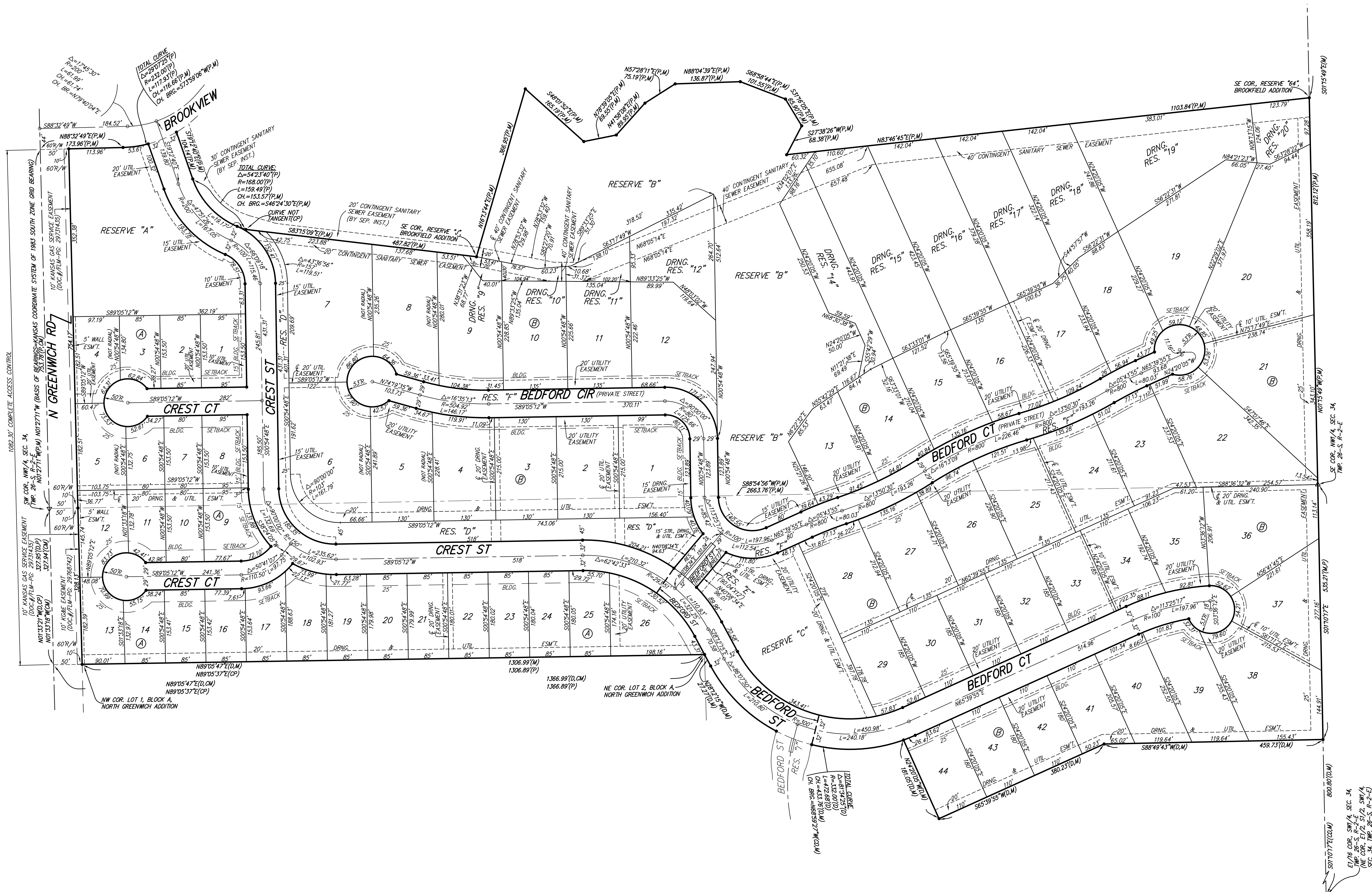
PAGE 1 OF 2

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BAUGHMAN COMPANY
315 Ellis St. Wichita, KS 67211 316-262-7271
BaughmanCo.com

BROOKFIELD SOUTH ADDITION
WICHITA, SEDGWICK COUNTY, KANSAS



Scale: 1" = 100'

Legend:

- = #4 REBAR W/ "BAUGHMAN" CAP (FOUND)
- = #4 REBAR W/ "BAUGHMAN" CAP (FOUND)
- = 3/4" IRON PIPE (FOUND)(ORIGIN UNKNOWN)
- △ = STONE (FOUND)
- ⊗ = RAILROAD SPIKE (FOUND)(ORIGIN UNKNOWN)
- ⊙ = #6 REBAR (FOUND)(ORIGIN UNKNOWN)
- ⊕ = 3/4" IRON PIPE IN THIMBLE (FOUND)(ORIGIN UNKNOWN)
- ⊗ = #4 REBAR W/ "SCHWAB-EATON" CAP (FOUND)
- ⊕ = #5 REBAR W/ "MKEC" CAP OVER STONE (FOUND)

Notes:

(M) = MEASURED
(P) = INFO. FROM PLAT OF NORTH GREENWICH ADDITION
(D) = DESCRIBED
(R) = RECORD MEASUREMENT
(CM) = CALCULATED FROM MEASURED INFO.
(CP) = CALCULATED INFO. FROM PLAT OF NORTH GREENWICH ADDITION
(CD) = CALCULATED FROM DESCRIBED INFO.
R/W = RIGHT-OF-WAY

Drainage Plan Note:

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. The maintenance of all drainageways and drainage facilities in backyard drainage 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.

Right-of-way Note:

No recording within abutting rights-of-way shall be allowed with the construction of the terms allowed within Reserves A, B, C, and D. The terms cannot impact access to or bury manholes, water valves and/or water meters.

BENCHMARK:

CHISELED SQUARE ON C. HEADWALL OF R.C.B.C. ON SOUTH SIDE OF 17TH ST. N., 176.9' W. & 15.8' S. OF THE NE COR., NW1/4, SEC. 34, TWP. 26-S, R-2-E. ELEV. = 1373.80 NAVD88.

CHISELED SQUARE ON E. SIDE OF SCHOOL SIGNAL POLE BASE, W. SIDE OF GREENWICH ROAD, 302' S. & 21.9' W. OF THE SW COR., NW1/4, SEC. 34, TWP. 26-S, R-2-E. ELEV. = 1387.64 NAVD88.

TOP OF 1" IRON PIPE AT NW COR., NW1/4, SEC. 34, TWP. 26-S, R-2-E. ELEV. = 1380.04 NAVD88

LOT	BLOCK	ELEVATION NAVD88
38-44	B	1383.5
28-29	B	1375.0
16-20	B	1372.0
14-15	B	1372.7
10-13	B	1373.0
7-9	B	1373.5

FOR REFERENCE ONLY

BROOKFIELD SOUTH ADDITION

PAGE 2 OF 2

BAUGHMAN COMPANY
315 Ellis St. Wichita, KS 67211 316-262-7271
BaughmanCo.com