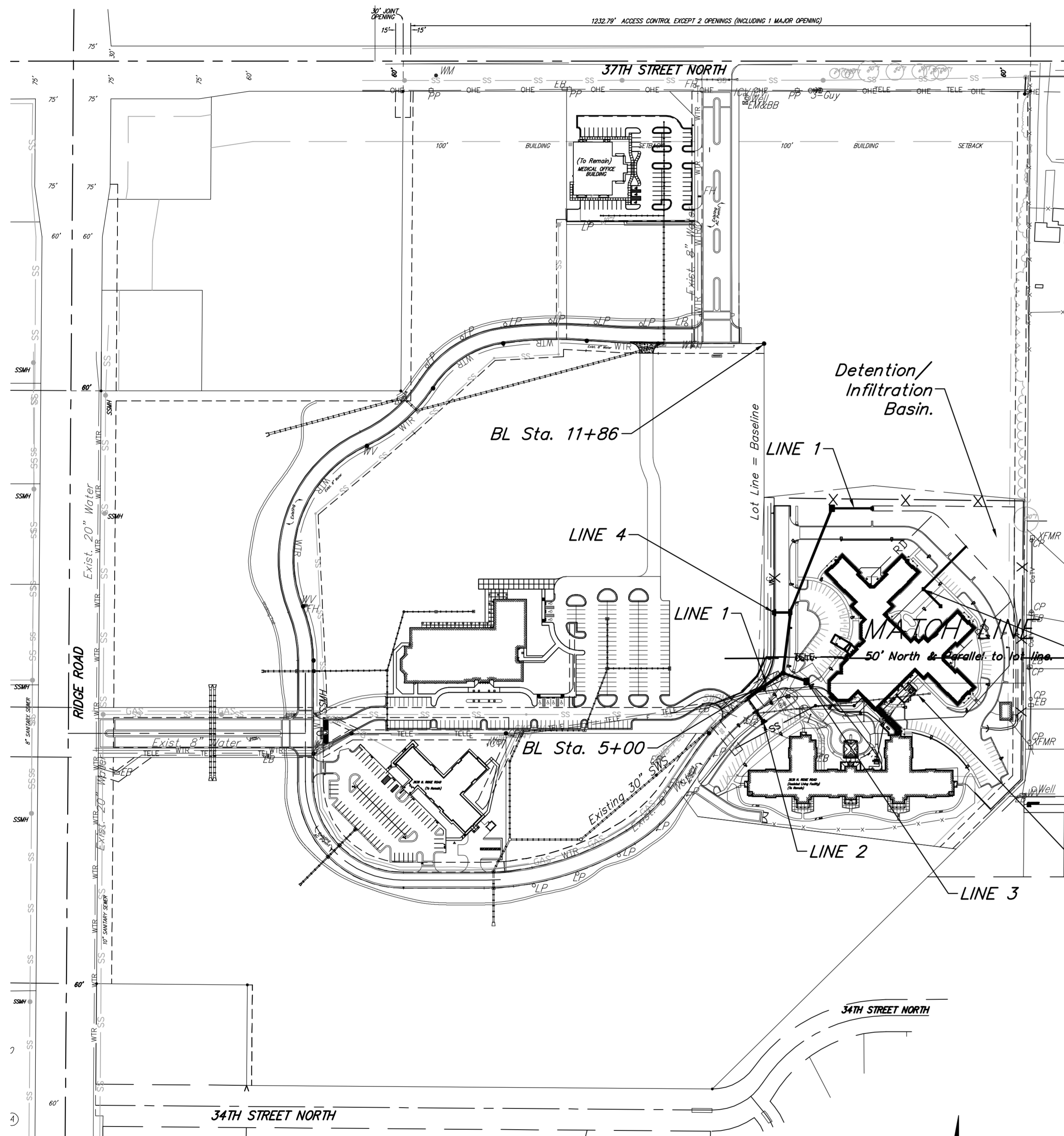


# STORM SEWER IMPROVEMENTS TO SERVE Via Christi Village Ridge Skilled Care Facility.

Private Project: 0101 PPD (607853)

CITY OF WICHITA, KANSAS

Gary Janzen, P.E. Interim City Engineer  
May 2012



## BENCHMARK

- BENCHMARK-1:  
"□" TOP OF INLET SE OF SE CORNER LOT 2, RIDGE PORT NORTH  
ELEV.=1330.89 (NAVD88)
- BENCHMARK-2:  
"□" TOP OF CURB SOUTH END OF SOUTH MEDIAN AT ENTRANCE ON  
37TH STREET NORTH  
ELEV.=1333.39 (NAVD88)
- BENCHMARK-3:  
"□" TOP OF CURB WEST END OF ENTRANCE TO RETIREMENT COMPLEX  
ELEV.=1331.62 (NAVD88)

## LEGAL DESCRIPTION

Parcel B of Lot 4, portions of Lot 8 & Reserve C of Block A,  
Ridge Port North 6th Addition, Wichita, Sedgwick County, Kansas.

## General Notes

- Contractor will be required to provide notice to utility companies a minimum of forty-eight (48) 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 Company	1-888-482-4950
Westar Energy (Electric)	383-8650
Black Hills Energy (Gas)	1-800-303-0357
Southwestern Bell Telephone Co.	1-800-286-8313
	262-6000
- City of Wichita Water Dept. (Water) 262-6000  
 City of Wichita Sewer Maint. (SS) 268-4090  
 City of Wichita Storm Sewer Maint. 268-4034  
 City of Wichita Traffic Maint.
- All disturbed areas within the project site and that overlap the area to be disturbed shall have temporary and permanent erosion control measures installed by the general contractor. See site plan reference copy of the Erosion Control Plan and Landscape Plan and coordinate with General Contractor to ensure temp. erosion control measures are install within 7 days of construction.
- All disturbed R/W areas not intended for pavement or sidewalk construction shall be seeded with Kansas Premium Fescue Blend at a rate of 8 lb./1000 Sq. Ft., fertilized with a 16-20-6 ratio at a rate of 4 lb./1000 Sq. Ft., and mulched with Prairie Hay at a rate of 92 lb./1000 Sq. Ft. Mulch shall be "patted" with forks or punched into soil to reduce loss due to wind.
- Utility service lines, poles, valve boxes, meters, et cetera 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 and shall be field verified. The contractor will be required to work around existing utilities within the right-of-way which do not conflict with proposed construction.
- Contractor shall furnish the inspector with a copy of the manufacturer's certification for all pipe used on this project after completion of pipe installation. The engineer will not certify the project to the city until pipe certification has been received.
- Properties within the project limits may have underground sprinkler systems which conflict with new construction. Contractor will be required to remove such improvements should they not be removed by their owner at the time of construction. The Contractor will be required to salvage all sprinkler heads and/or valves and give such material to their owner. Portions of underground sprinkler systems not in conflict with new construction shall be protected from damage and shall remain in place. All work in connection with underground sprinkler systems shall be considered as subsidiary to the contract pay items of work.
- Cuts made to paved surfaces on public property will be repaired by the City's contractor and charged against the owner/applicant. Unit repair prices are available from the City at 268-4418. A surcharge may be applicable; call 268-4418 for details. Repair costs to be paid prior to release of sewer service if sewer service is affected. Contractor shall obtain permit prior to construction.
- Barriers and detour signage shall be in accordance with the Manual On Uniform Traffic Control Devices.
- Contractor shall not start work on the project until the project inspector is assigned to the project and is present on the site. Contractor shall not start on the project until all necessary bonds and permits have been obtained. Bonds may include but are not limited to Statutory, Performance & Maintenance Any work done without inspection will be required to be uncovered for inspection.
- 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 that, in the opinion of the Engineer, 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.
- All storm water sewer lines and appurtenances shall be installed in accordance with the most recent edition of City of Wichita, Kansas Standard Specifications for the Construction of City Projects unless otherwise noted.
- All storm water sewer lines shall be reinforced concrete pipe unless otherwise noted in the plans.
- See Landscape and Grading Plans for Groundwater Infiltration Pond Plans.

### Index

Title Sheet	1
ERU Plan	2
Line 1	3
Line 2-4	4
Line 5 & Removal	5
Detention/Infiltration Basin	6
Curb Inlet Detail	7
Drop Inlet Detail	8
ADS Inlet/Hydroworks HG5 Detail	9
Grading Plans (Reference Only)	10-11
Landscape Plan (Reference Only)	12
Erosion Control Plan (Reference Only)	13

APPROVED AS NOTED  
BY CITY ENGINEER OF WICHITA

Engineering *Julianne Kallman 6-7-12*

Storm Drainage *Jim Hodest 6-7-12*

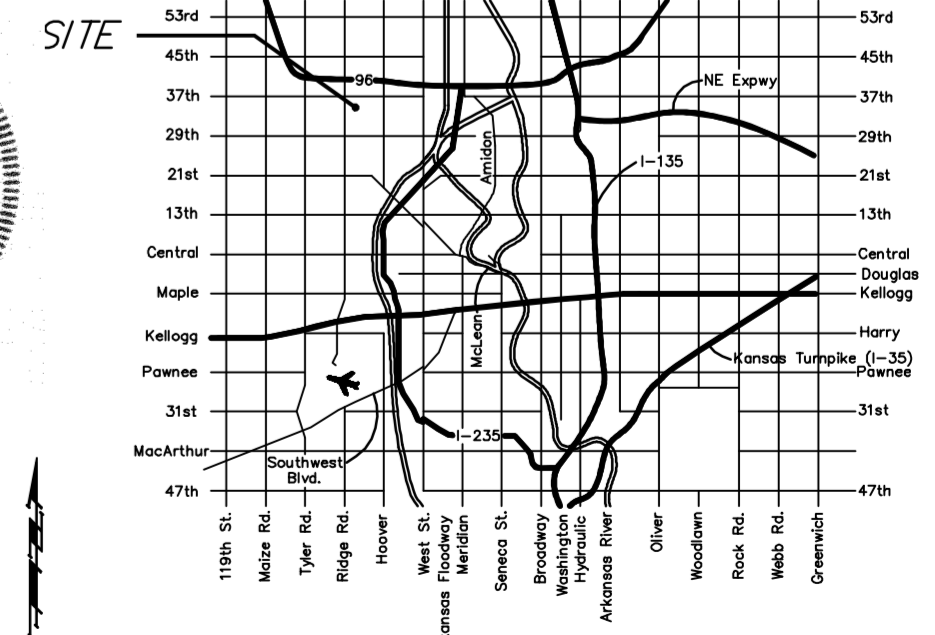
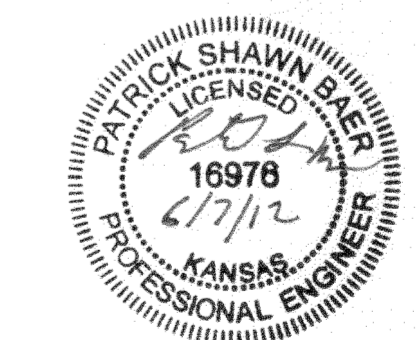
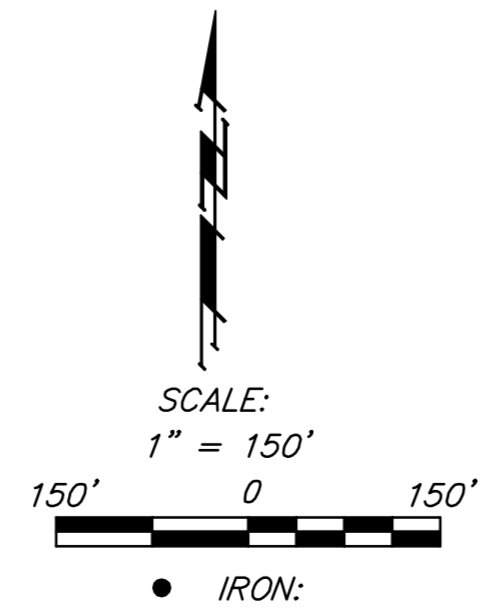
NOTE TO CONTRACTORS

Installation, inspection and testing for this project is to be provided by a Licensed Consulting Engineering Firm under contract with the Owner/Developer. Said Inspection to be in accordance with the City of Wichita standard construction engineering practices and certified by a Licensed Professional Engineer. No work shall be performed in dedicated easements or public right-of-way by the Contractor without such inspection nor shall any work be commenced without written authorization by the City Engineer. All Construction and Materials shall comply with the City of Wichita Specifications and Standards (on file and available in the City Engineer's Office).

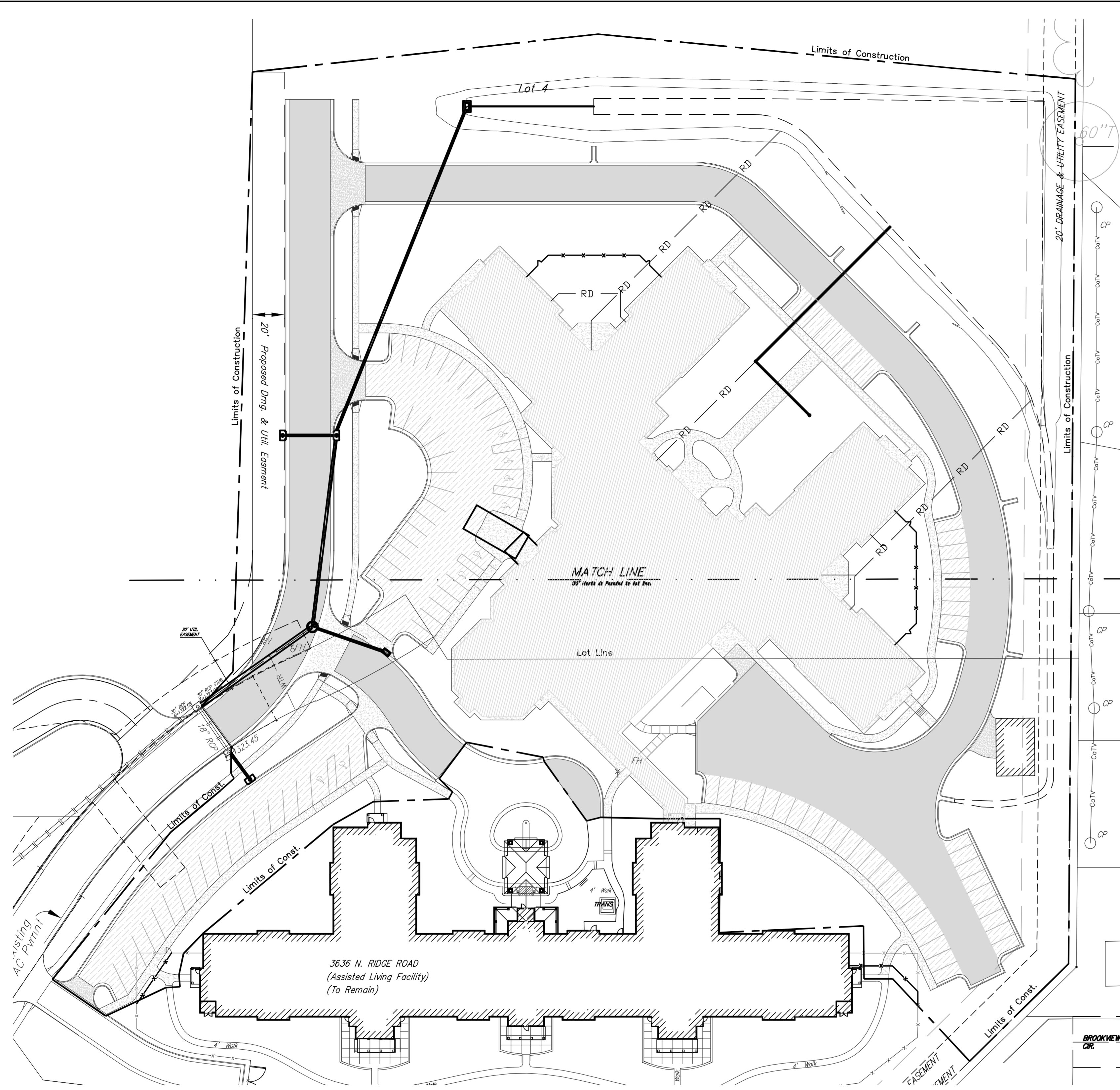
### AS BUILT PLANS

CONTRACTOR:	McCullough Excavation
INSPECTOR:	Ryan McCullough P.E., McCullough Excavation
PDF BY:	RDM 8-02-2013

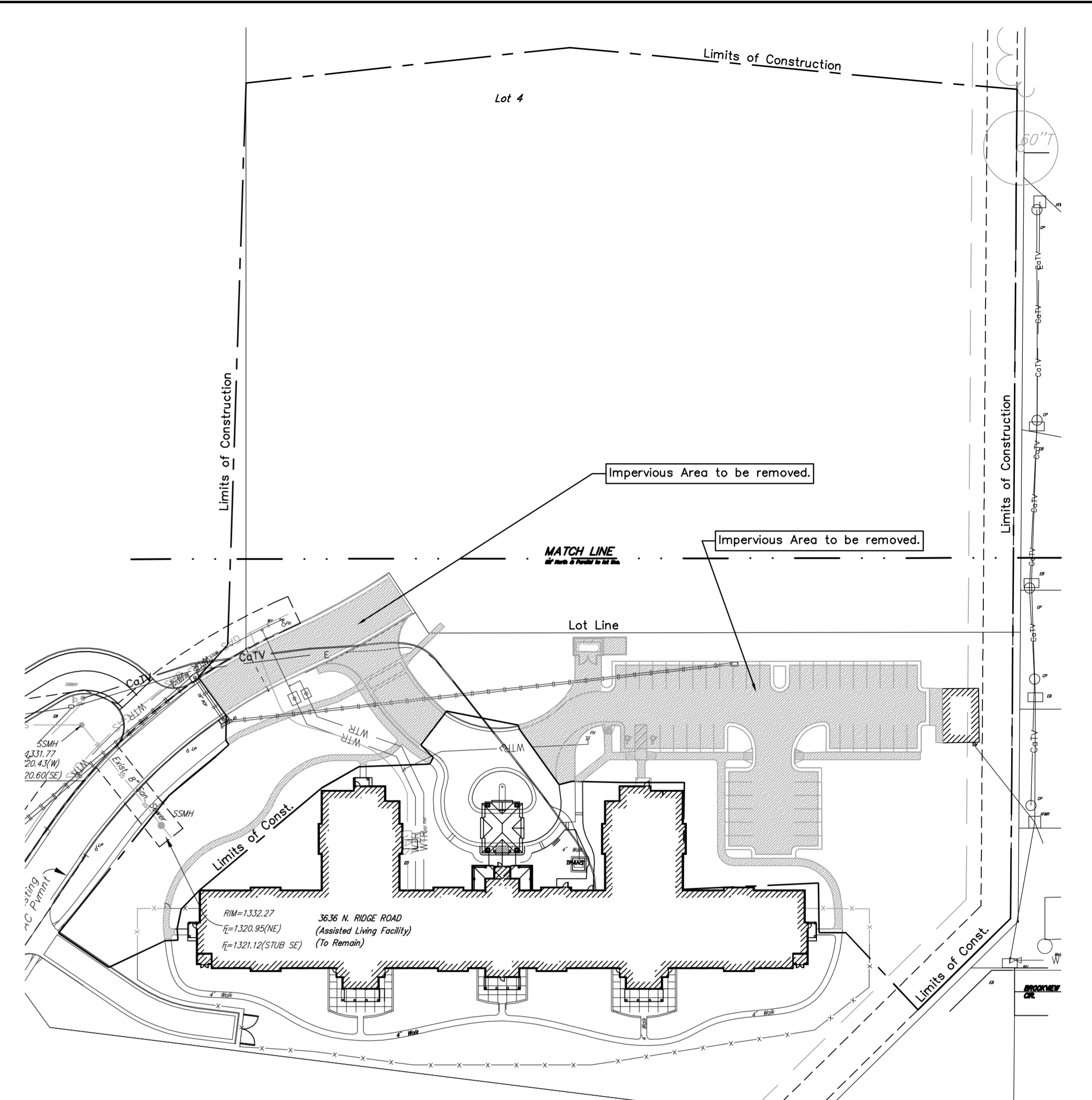
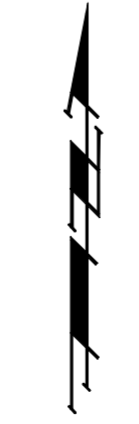
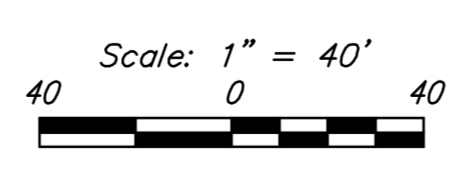
Note: McCullough Excavation is providing as built information for storm sewer Pipe and Structures only. As Built information for Grading and other Drainage Improvements to be provided by others.



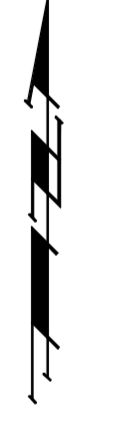
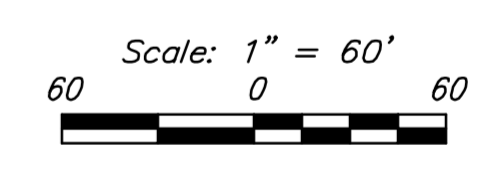
Baughman Company, P.A. 315 Ellis St. Wichita, KS 67211 P 316-262-7271 F 316-262-01  
ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE



**NEW IMPERVIOUS AREA**



**IMPERVIOUS AREA REMOVED**



**BENCHMARK**

- BENCHMARK-1:  
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- BENCHMARK-2:  
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**ERU LEGEND**

- = Project Limits
- = Ex. Impervious Area to be removed
- = Prop. Impervious Area.

**LEGAL DESCRIPTION**

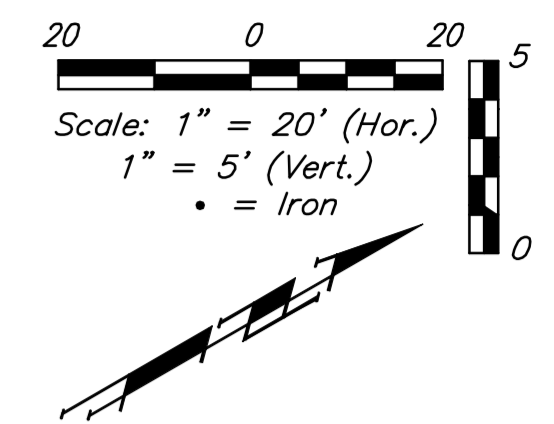
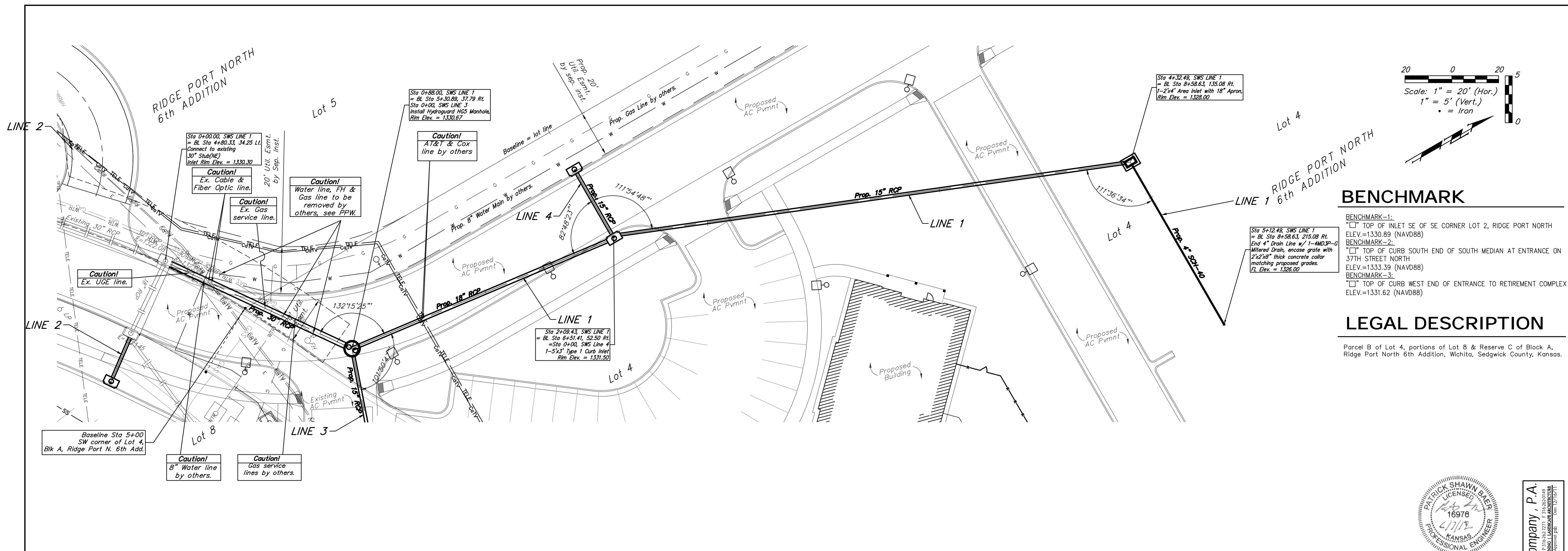
Parcel B of Lot 4, portions of Lot 8 & Reserve C of Block A, Ridge Port North 6th Addition, Wichita, Sedgwick County, Kansas.

**SITE INFORMATION**

Total Area Disturbed: ±279,707sq. ft. (6.42 acres)  
 Impervious Area: ±137,222 sq. ft. (3.15 acres)  
 Building Area: 44,388 sq. ft.  
 Parking Required: 103 spaces  
 3 Accessible Spaces Required  
 Parking Provided: 8 Universal Acc. Spaces provided



		<b>ERU PLAN</b> Wichita, Kansas	
		<small>Baughman Company, P.A. 315 Ellis St. Wichita, KS 67211 P 316-262-7271 F 316-262-0149          ENGINEERING   SURVEYING   PLANNING   LANDSCAPE ARCHITECTURE</small>	
PROJECT NUMBER 0101 PPD 607853	DESIGN PSB	DRAWN psb	SCALE varies SHEET <b>2 OF 13</b>
REVISIONS:	APPROVED PSB	DATE 12/16/2011	



**BENCHMARK**

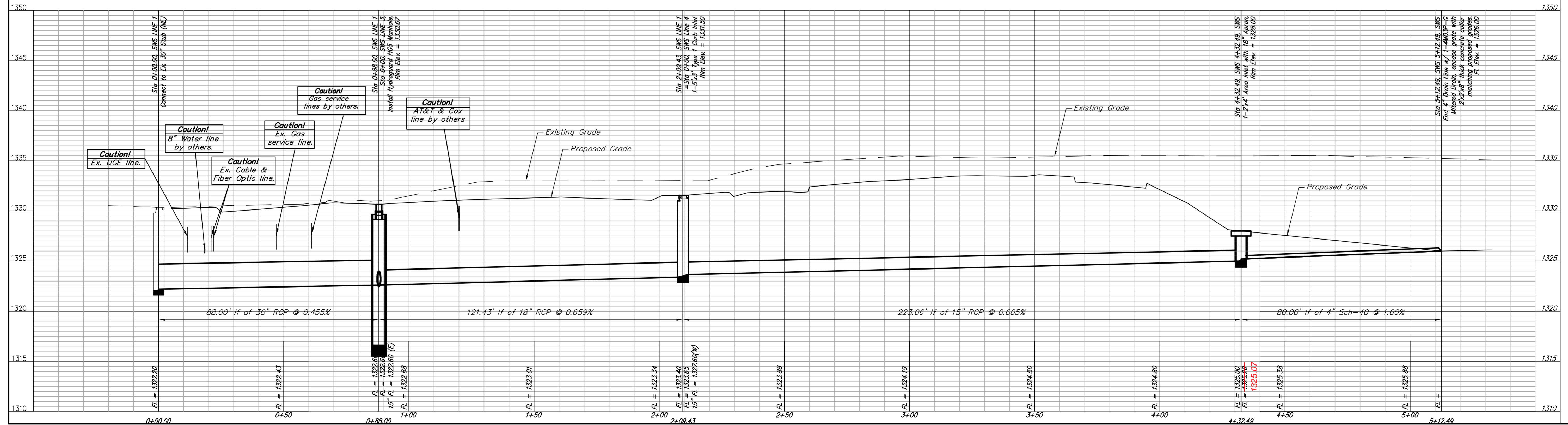
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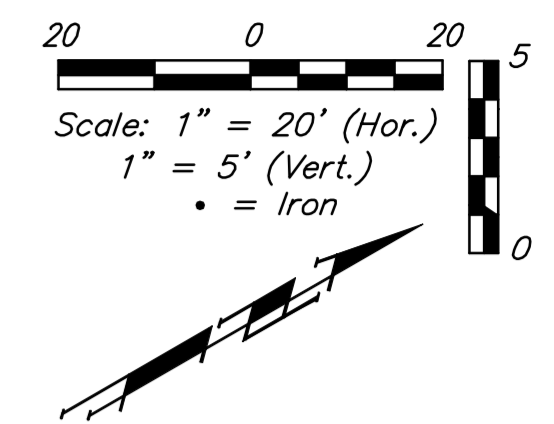
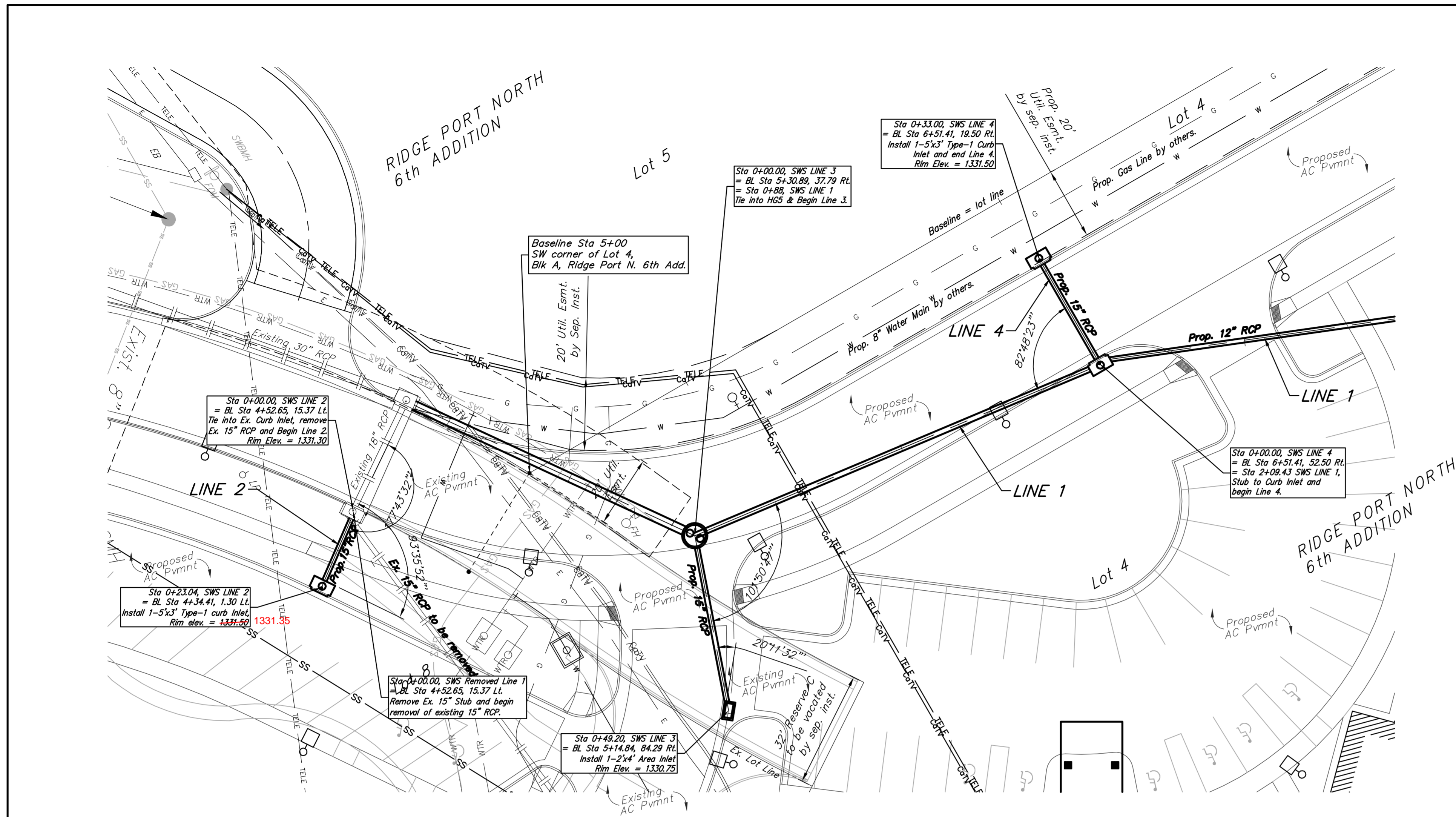
**LEGAL DESCRIPTION**

Parcel B of Lot 4, portions of Lot 8 & Reserve C of Block A, Ridge Port North 6th Addition, Wichita, Sedgwick County, Kansas.



Profile View of SWS LINE 1





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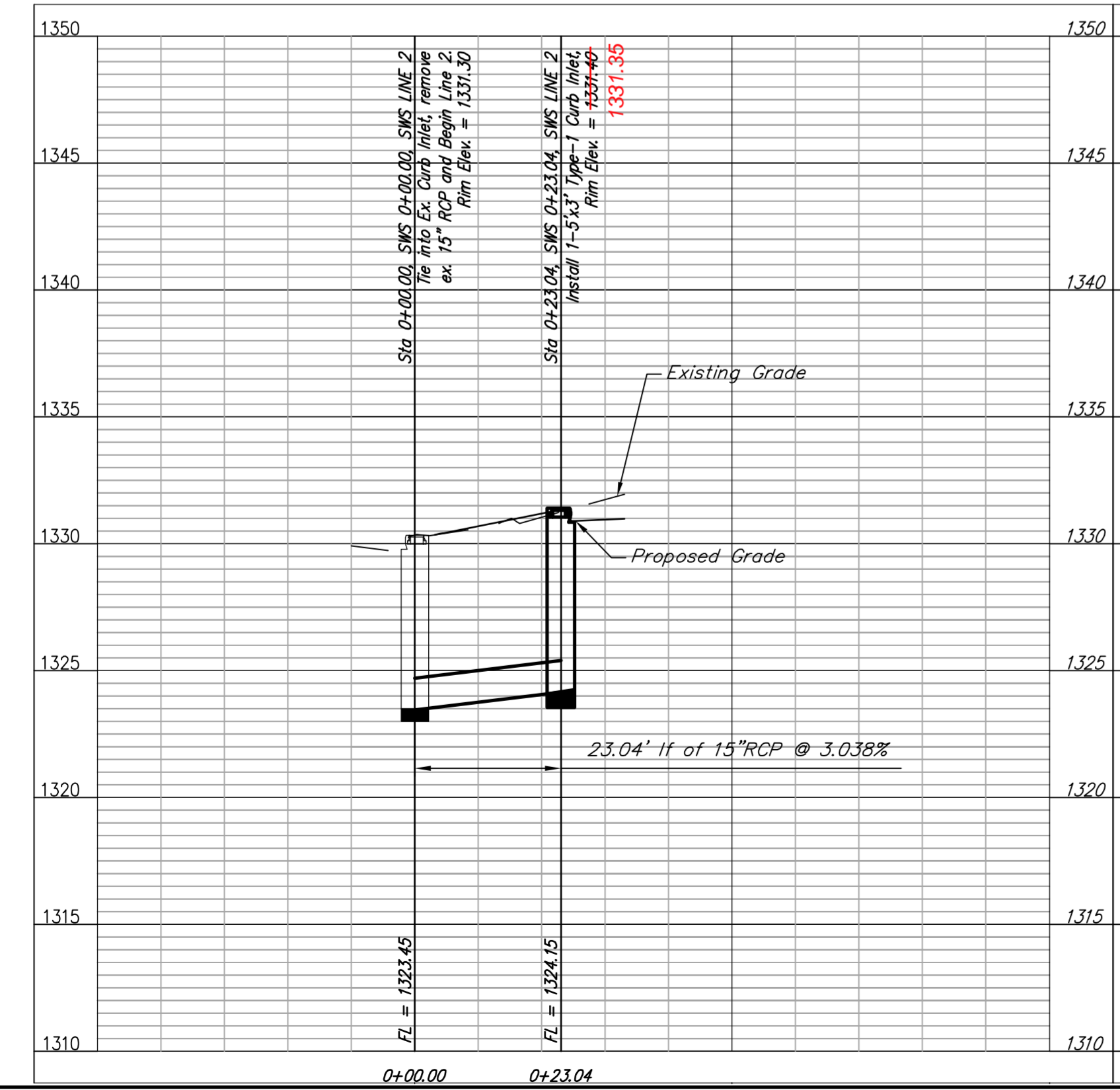
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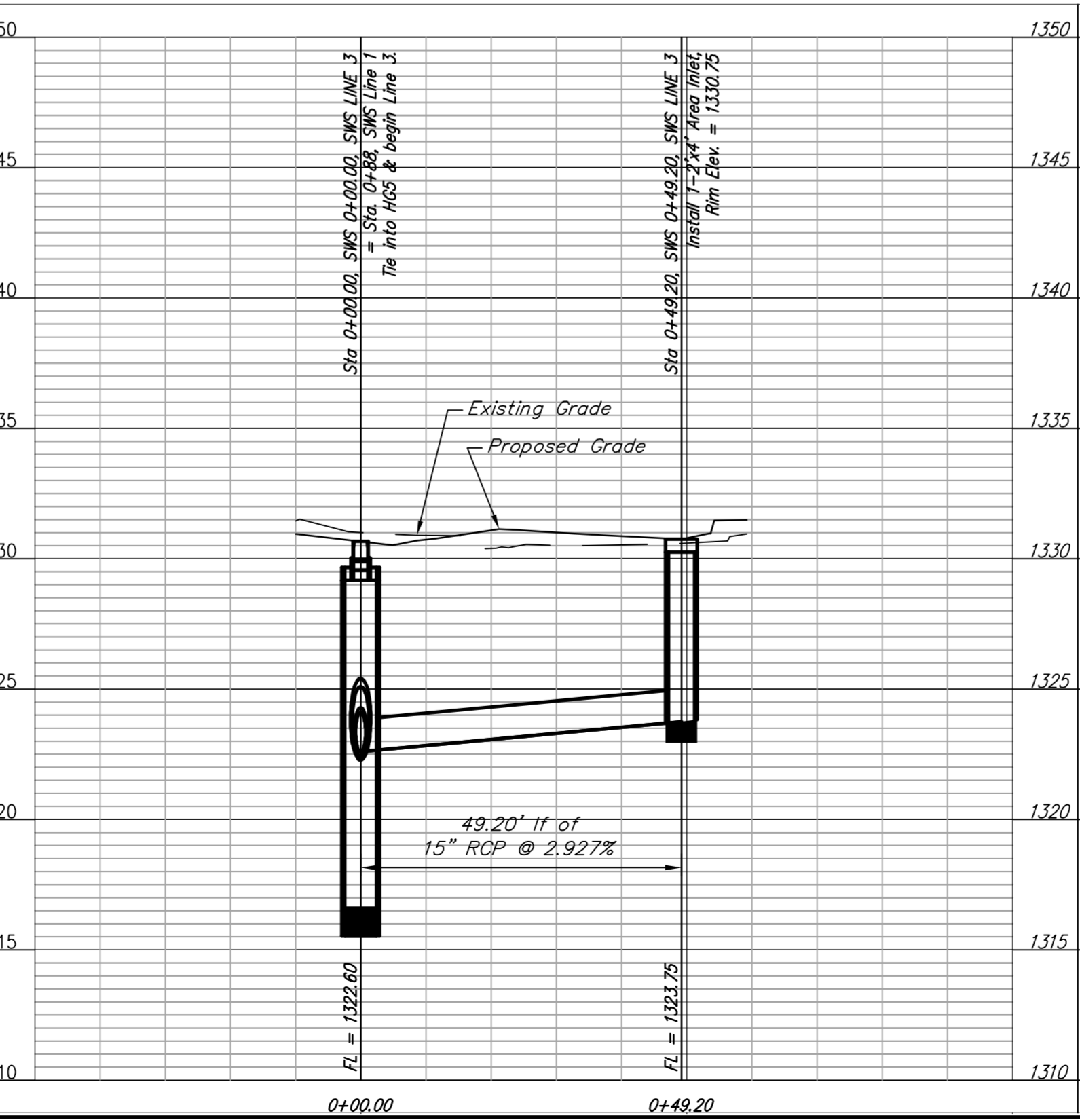
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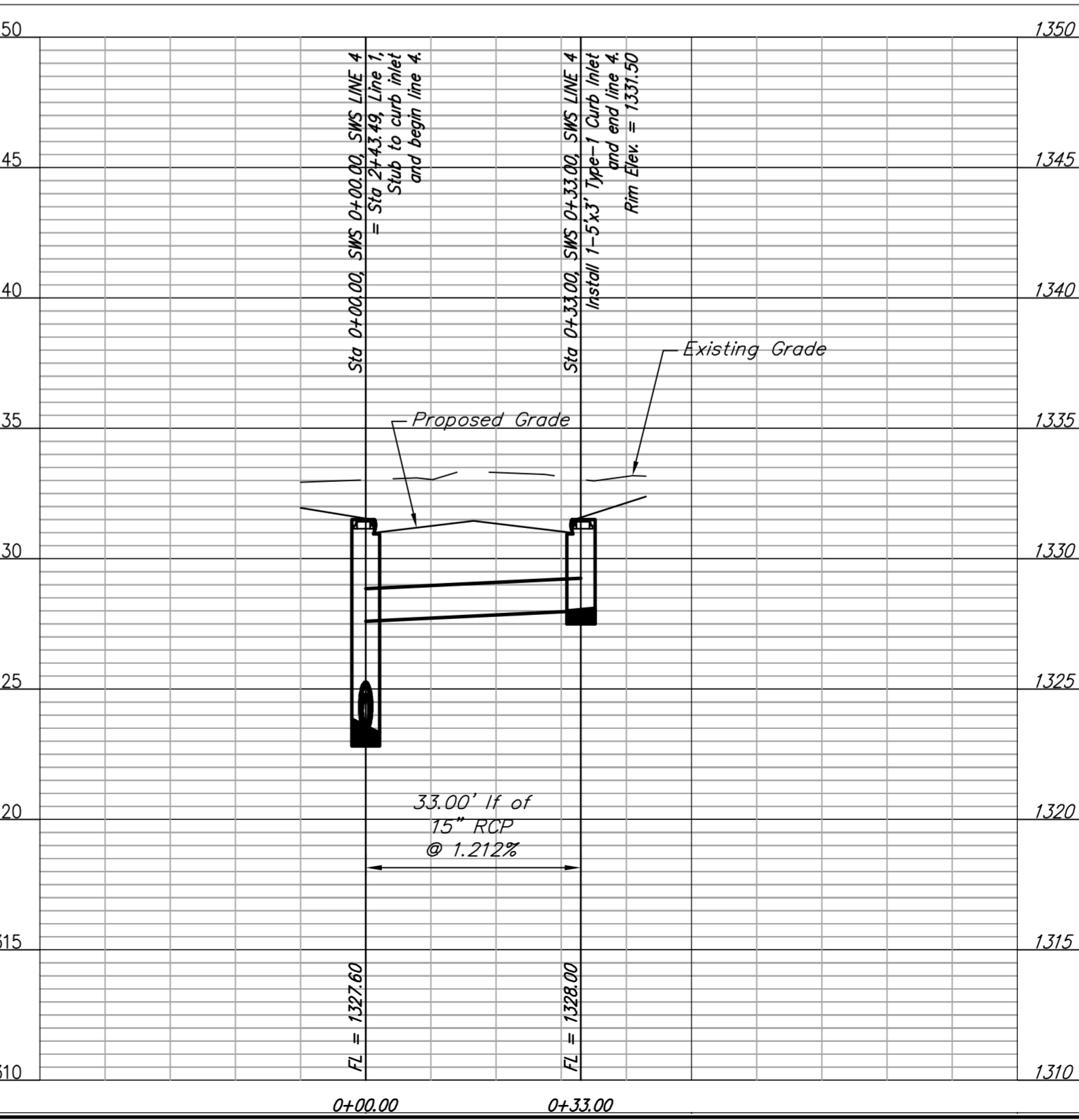
Profile View of SWS LINE 2



Profile View of SWS LINE 3



Profile View of SWS LINE 4



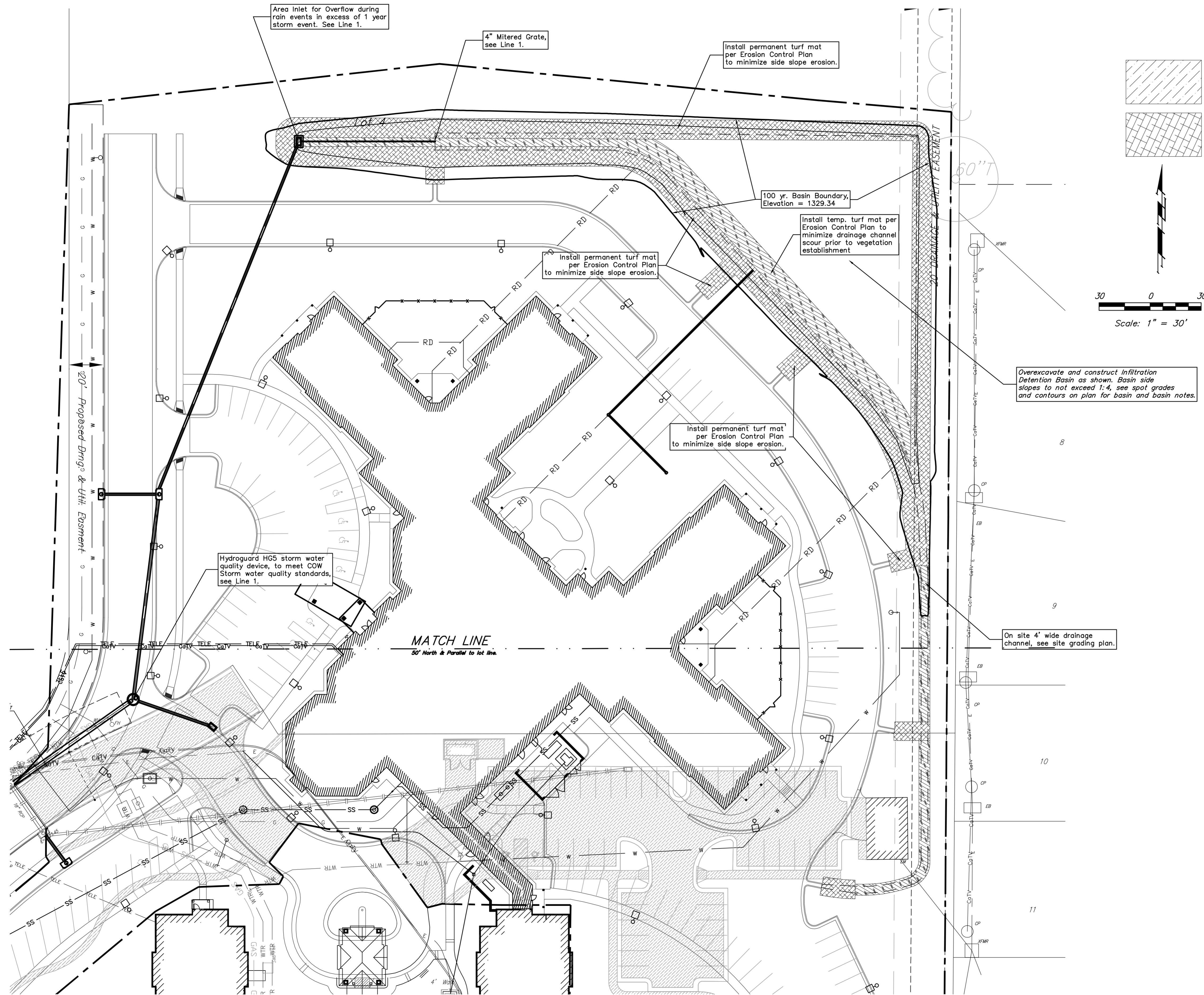


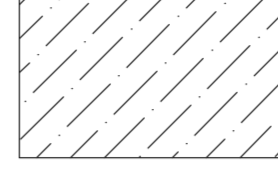
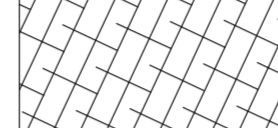
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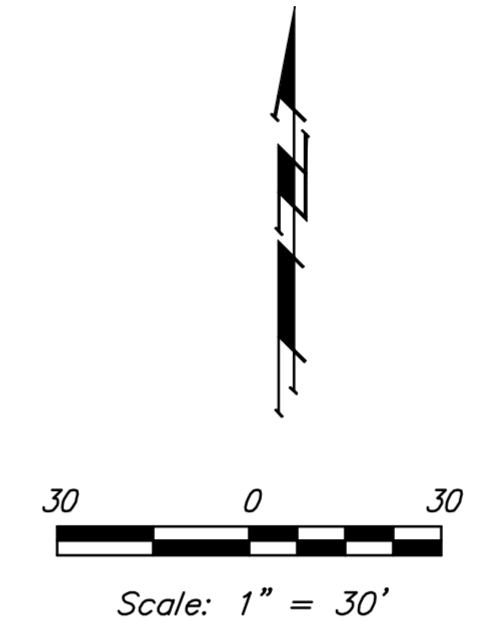
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# LEGAL DESCRIPTION

Parcel B of Lot 4, portions of Lot 8 & Reserve C of Block A,  
 Ridge Port North 6th Addition, Wichita, Sedgwick County, Kansas.



 NA Green SC 150 Erosion Control Mat with native seed. Install per Manufacture Specifications.  
 NA Green XC250 Permanent Turf Reinforcement Mat with native seed. Install per Manufacture Specifications.




Overexcavate and construct Infiltration Detention Basin as shown. Basin side slopes to not exceed 1:4, see spot grades and contours on plan for basin and basin notes.

On site 4' wide drainage channel, see site grading plan.

- INFILTRATION DETENTION BASIN NOTES:**
- Basin bottom and shall be over-excavated to the existing sand layer, see Geotechnical Report and backfilled with on site sandy soil excavated from proposed Building Footings. Overexcavation and backfilling to be verified by PPD Inspector, to be paid by the contractor. Soil testing shall be arranged by the Contractor at the request of the Inspector.
  - Top 4" layer of bottom and sideslop of basin to consist of amended top soil consisting of 75% construction sand, 10% Organic Matter, and 15% Top Soil.
  - All of disturbed areas, see Erosion Control for temporary seeding, and Native Seed note for permanent seeding requirements.
  - Seeding within Infiltration Detention Basin to consist of a short Grass Prairie Mix: 12# PLS/ac. (Sharp's Shortgrass Pasture Mix from Sharp Bros. Seed Co. Heely, KS) 50% Blue Grama, Native, 25% Buffalograss, Sharp's Improved w/KNO3, 25% Sideoats Grama, El Reno.
  - Install Erosion Control Mat (North American Green Bionet S150BN & C350 or approved equal) within Basin as indicated on Erosion Control Plan.

Basin Size		
Elevation	Area	Volume.
1326	20	0
1326.8	2,777	932
1327.6	15,099	7,234
1328.0	22,156	14,639
1328.4	24,372	23,940
1329.2	29,341	45,395
1330.0	35,820	71,329

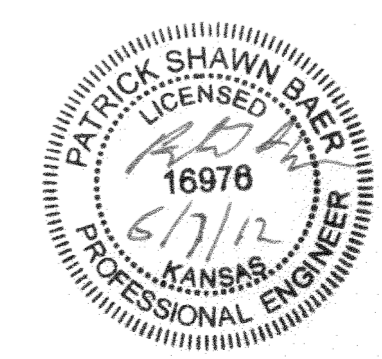
Event	Basin Event Results.				Offsite Peak Runoff.	
	Peak In	Peak Out	Peak Elev.	Peak Storage.	Exist. (cfs)	Prop. (cfs)
1-yr	11.3	0.6	1,328.0	15,650	13.1	7.8
2-yr	14.8	2.8	1,328.2	19,380	18.4	10.2
5-yr	19.8	5.5	1,328.4	24,740	26.1	16.1
10-yr	23.3	5.6	1,328.6	29,570	31.6	20.4
25-yr	27.7	5.8	1,328.9	36,310	38.6	24.0
50-yr	31.6	5.9	1,329.1	42,510	44.9	26.8
100-yr	36.0	6.1	1,329.3	49,615	51.9	29.9

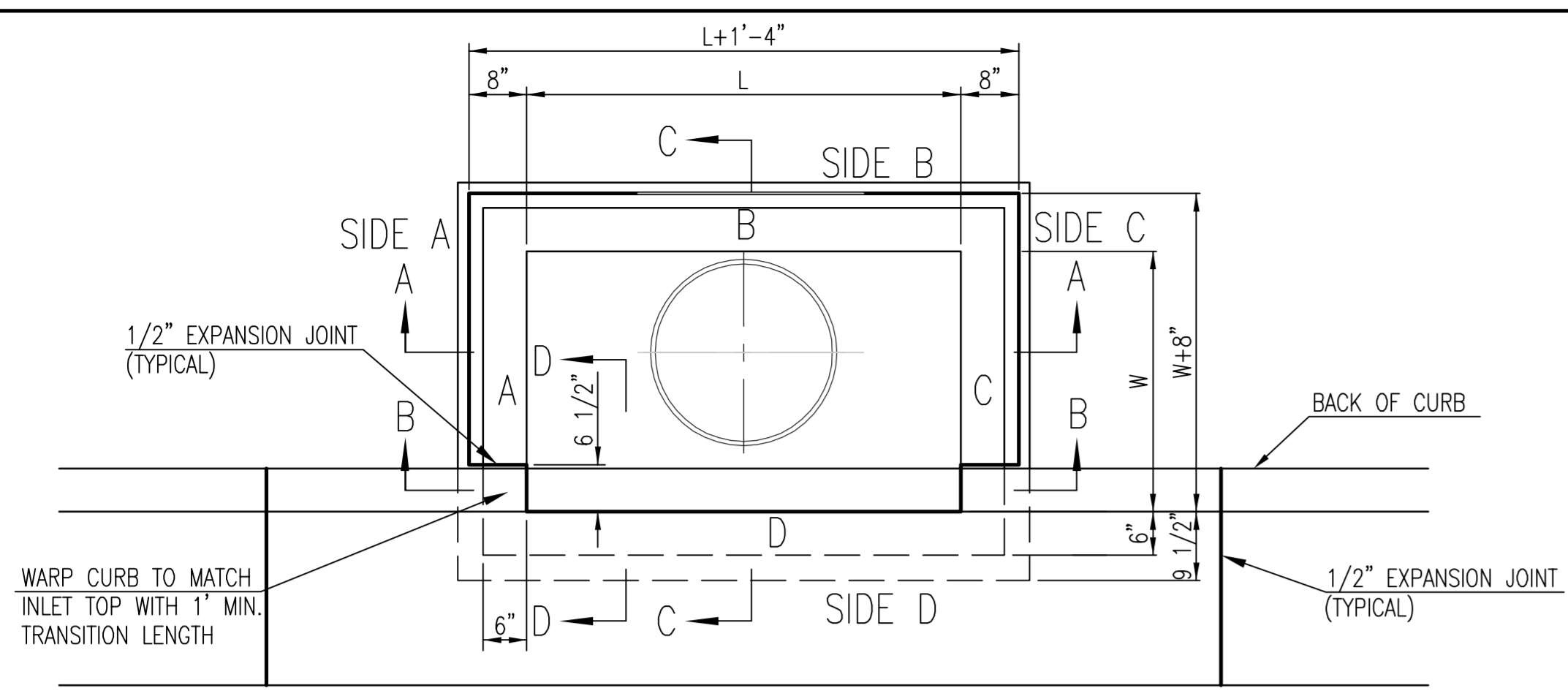


**Baughman** Lots 4&8, Blk A, Ridge Port N. 6th Ac  
**Infiltration Basin**  
 Wichita, Kansas

Baughman Company, P.A. 315 Ellis St. Wichita, KS 67211 P 3162627211 F 3162626149  
 ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE

PROJECT NUMBER 0101 PPD 607853	DESIGN PSB	DRAWN psb
REVISIONS:	APPROVED PSB	DATE 12/16/2011
SCALE varies		SHEET <b>6 OF 13</b>



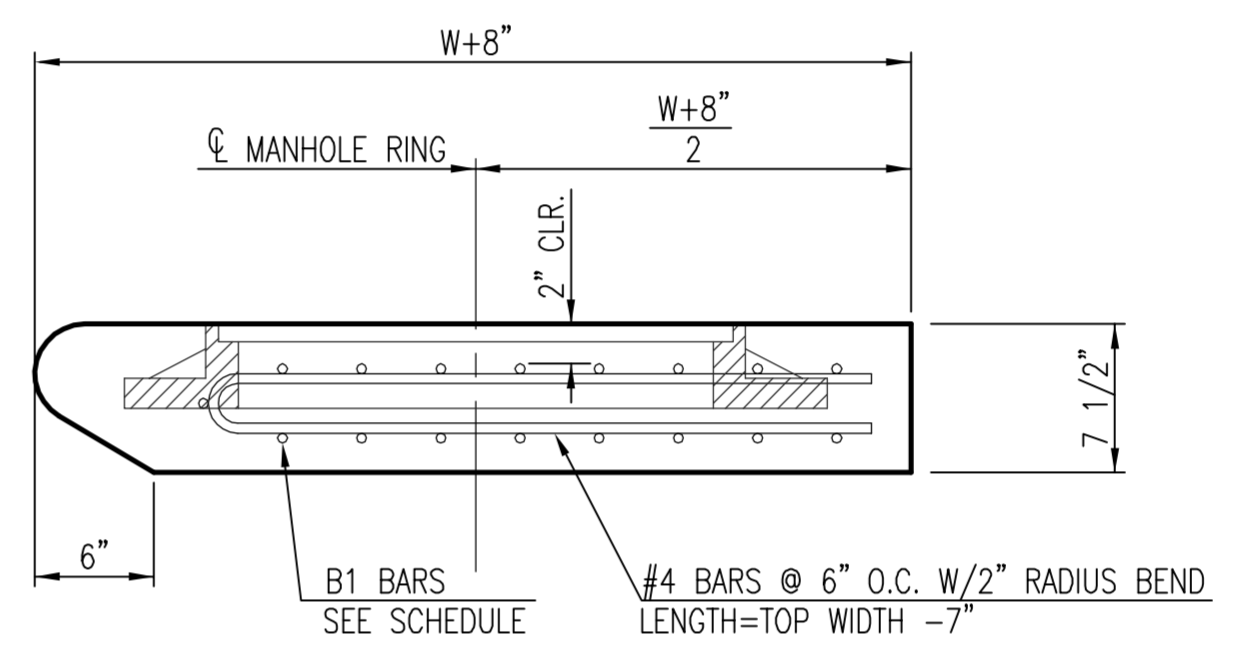
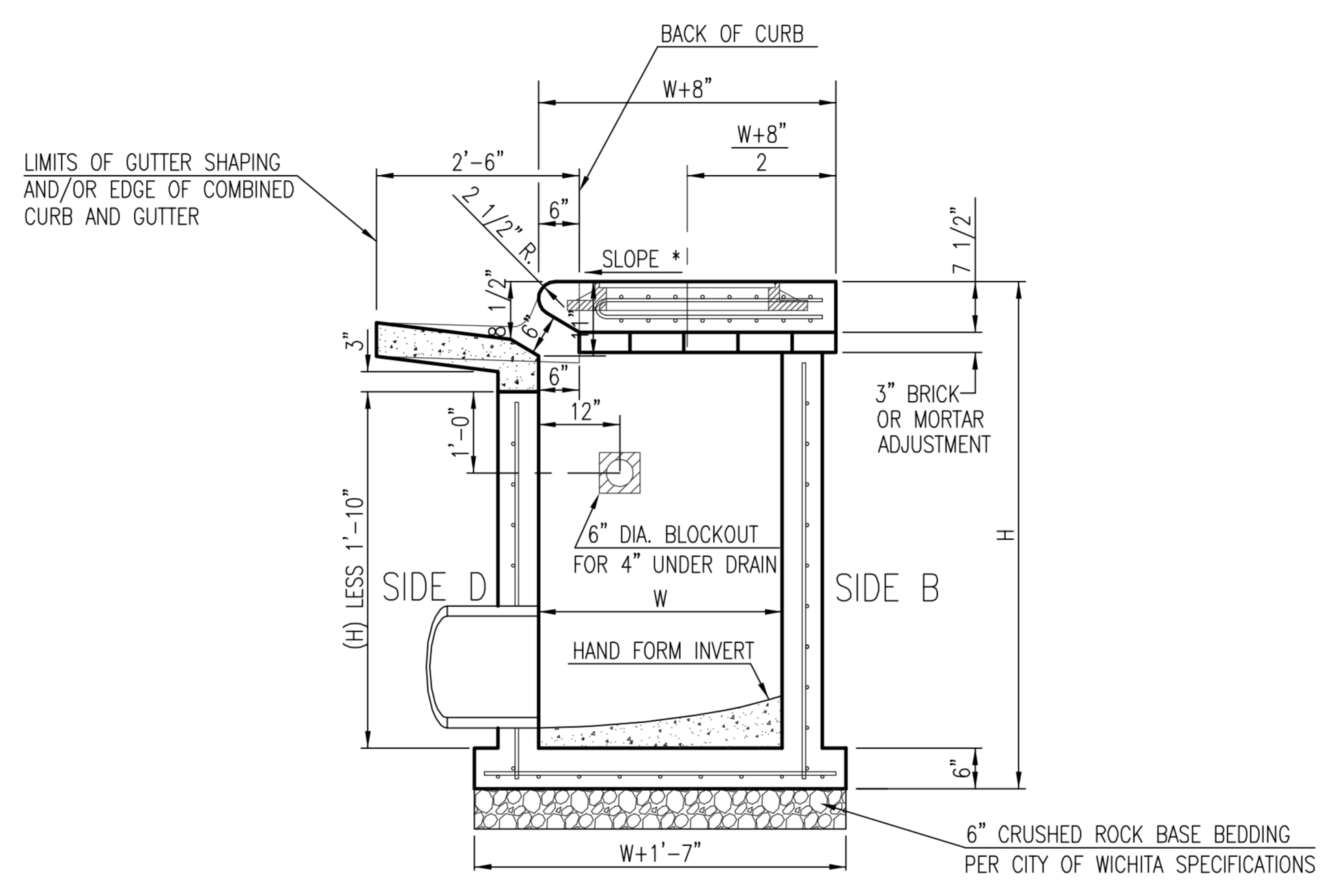
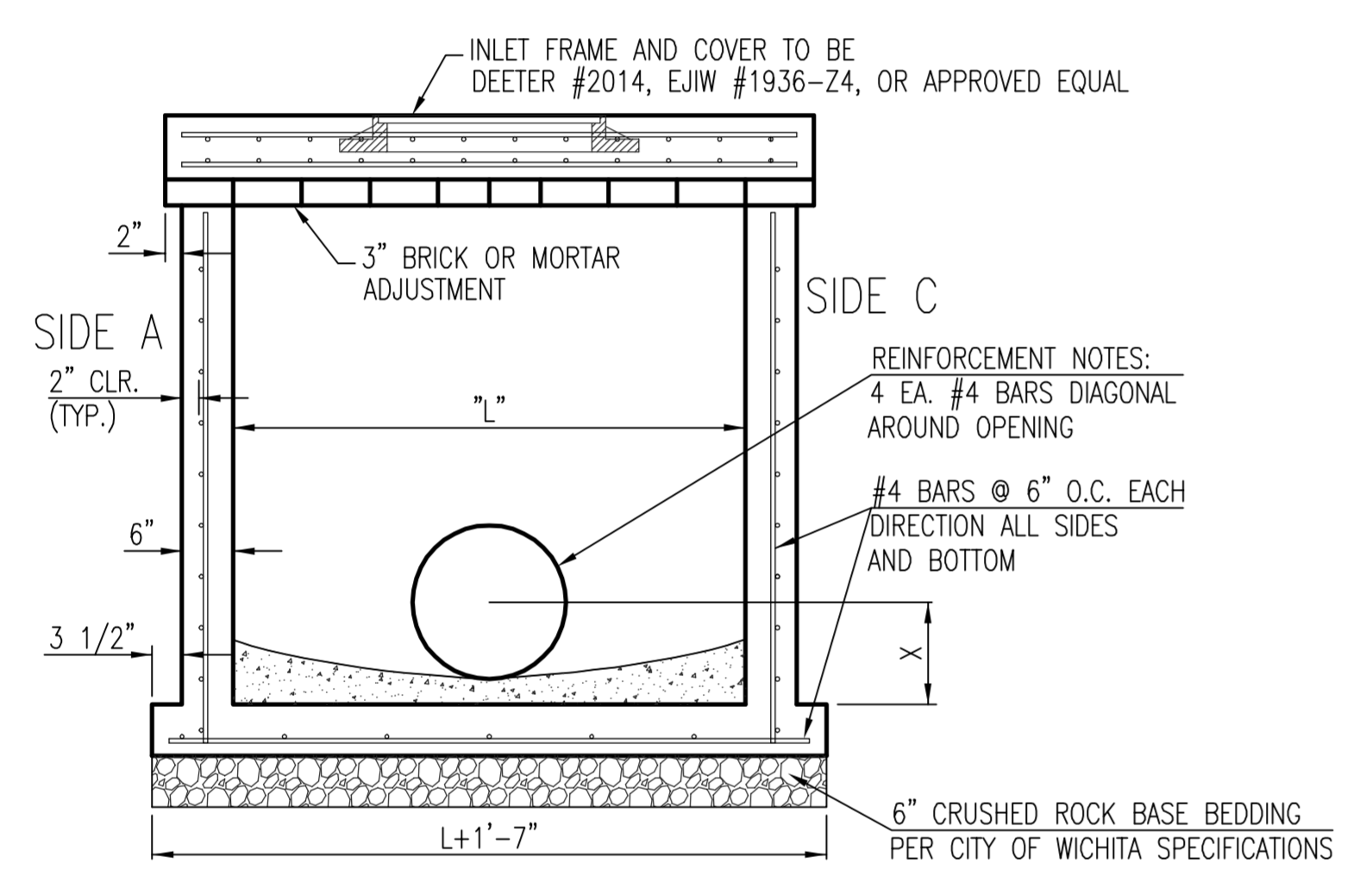


BAR SCHEDULE		
INLET OPENING	B1 BARS	SPACING
5'-0"	#4	4"
10'-0"	#6	3.5"

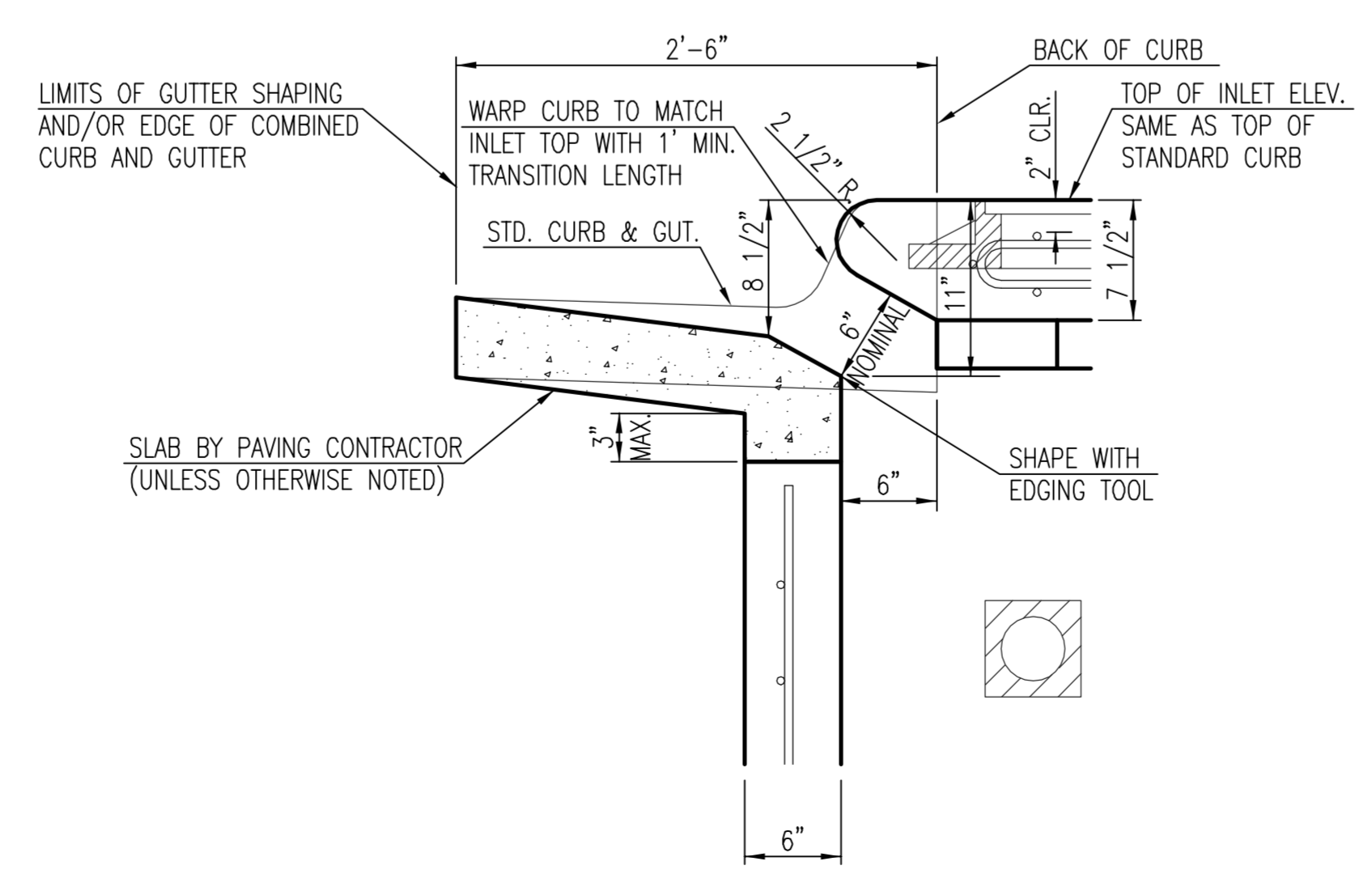
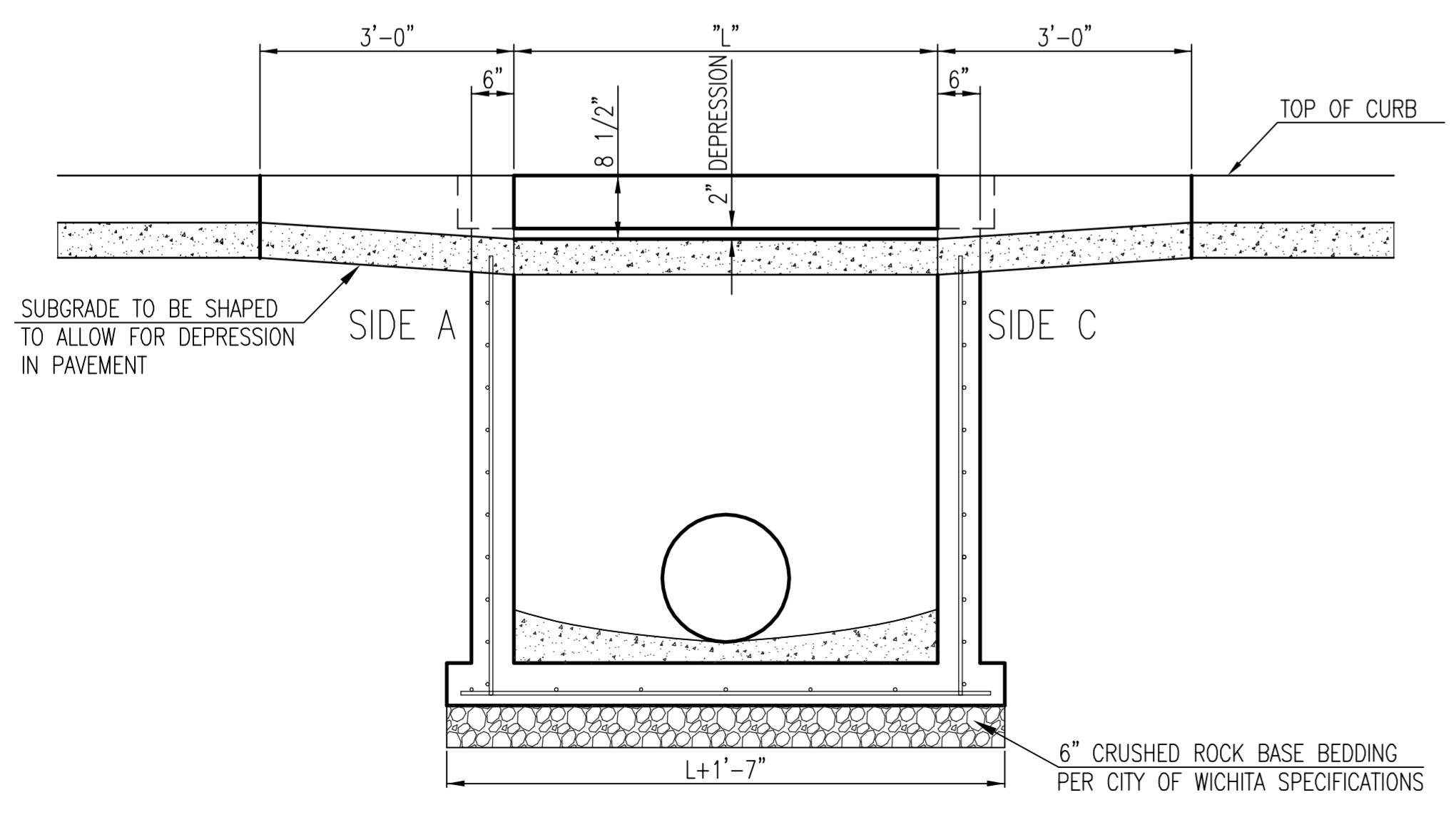
PRECAST CURB INLET WIDTHS				
W	PRE-CAST TOP SIZE		PIPE DIA.**	
	WIDTH	LENGTH		
3'-0"	W+8"	L+1'-4"	7 1/2"	21" & SMALLER
4'-0"	W+8"	L+1'-4"	7 1/2"	24" & 30"
5'-0"	W+8"	L+1'-4"	7 1/2"	36" & 42"
6'-0"	W+8"	L+1'-4"	7 1/2"	48" & 54"
7'-0"	W+8"	L+1'-4"	7 1/2"	60" & 66"

\*\* FOR PIPES PERPENDICULAR TO INLET WALL

- GENERAL NOTES
- CONCRETE TOPS TO BE INSTALLED ON THIN MORTAR CUSHION TO INSURE FULL SUPPORT ALONG BRICK. CONCRETE TOPS MAY BE CAST IN PLACE OR PRECAST. CONCRETE USED FOR INLET CONSTRUCTION SHALL CONFORM TO CITY OF WICHITA SPECIFICATIONS FOR CONCRETE PAVEMENT MIX.
  - CONTRACTOR SHALL HAVE THE OPTION OF CONSTRUCTING 8" BRICK MASONRY WALLS BETWEEN THE CONCRETE INLET BASE AND TOP OF THIS INLET WHEN W=5'-0" AND H=7'-0" OR LESS.
  - INLET INVERT SHALL BE SHAPED WITH 8 SACK SAND MIX CONCRETE TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE INLET WILL BE SELF CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.
  - THE ENDS OF ALL PIPES INSTALLED IN INLETS SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE INLET WALL.
  - INLET FRAME AND COVER TO BE DEETER #2014, EJIW #1936 Z4, OR APPROVED EQUAL, SEE SW-303.
  - CONTRACTOR SHALL REMOVE LIFTING HOOKS AFTER INSTALLATION. RECESSES IN INLET WALL SHALL BE GROUTED FLUSH TO THE INLET WALL WITH HYDRAULIC CEMENT AFTER THE INLET IS IN PLACE. LIFTING HOLES THRU THE INLET WALL WILL NOT BE ACCEPTED.



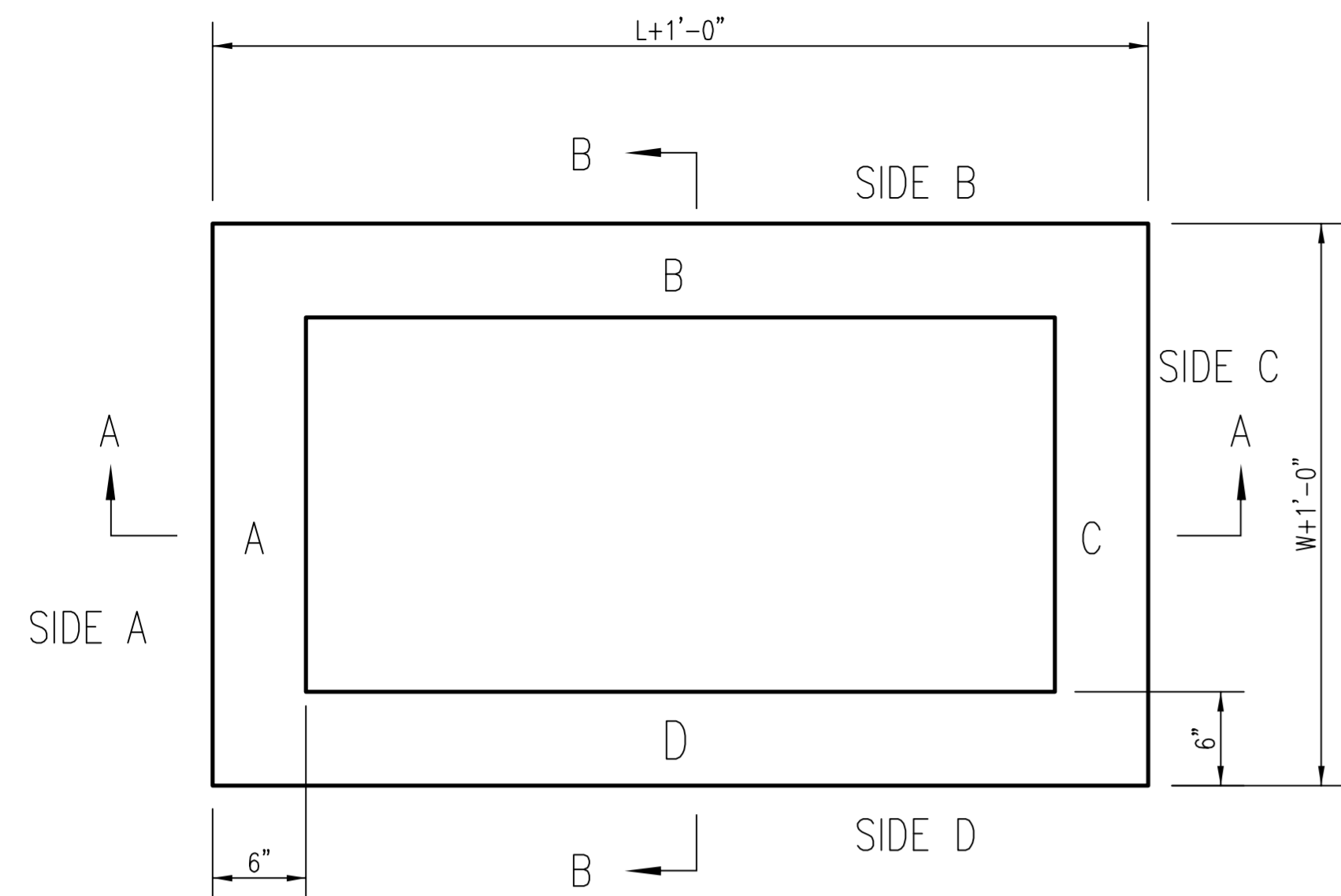
NOTES:  
\* SLOPE OF INLET TOP TO MATCH SIDEWALK OR PARKING SLOPES WITHIN LIMITS INDICATED.



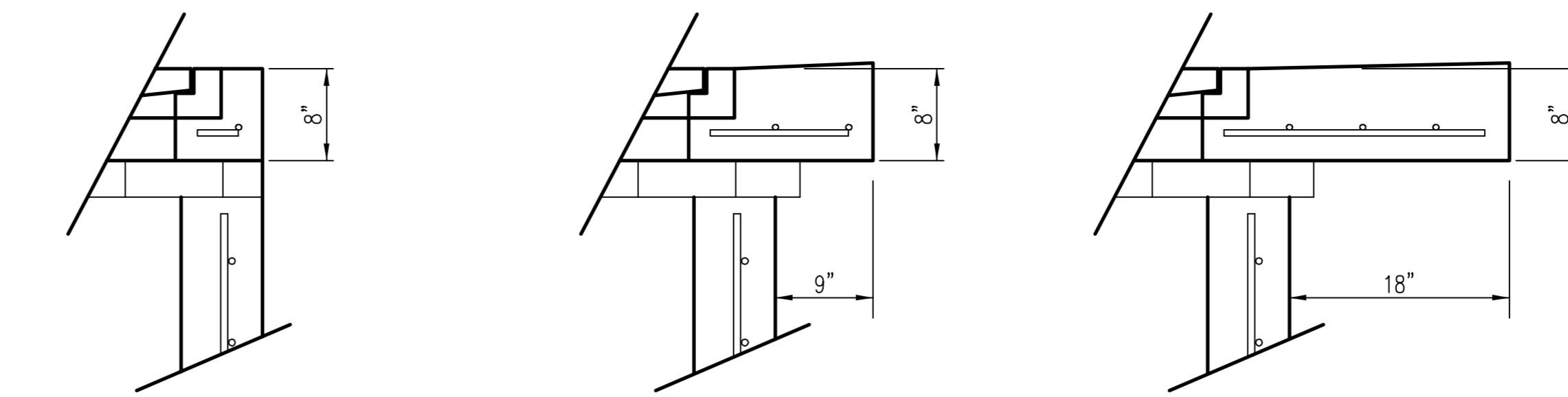
**STANDARD TYPE 1 CURB INLET**  
5'-0" OR 10'-0" OPENING

CITY ENGINEER  
**JAMES L. ARMOUR, P.E., L.S.**

PROJECT NUMBER 101PPD607853	OCA NUMBER NA	DATE 11/2010
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		DESIGN DRAWN
		SHEET 7 of 13



TOP VIEW



FLUSH STYLE TOP  
NO APRON

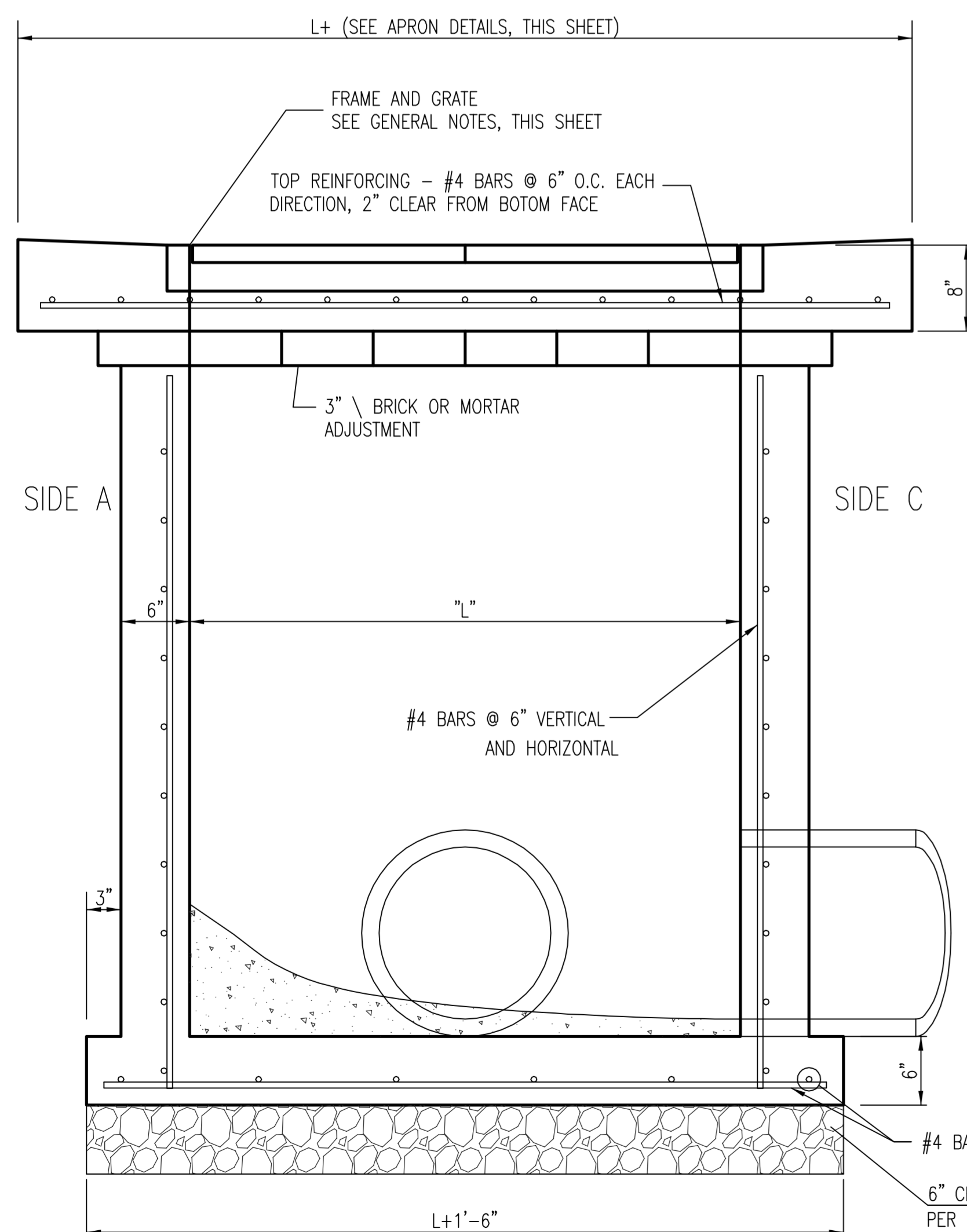
9" APRON

18" APRON

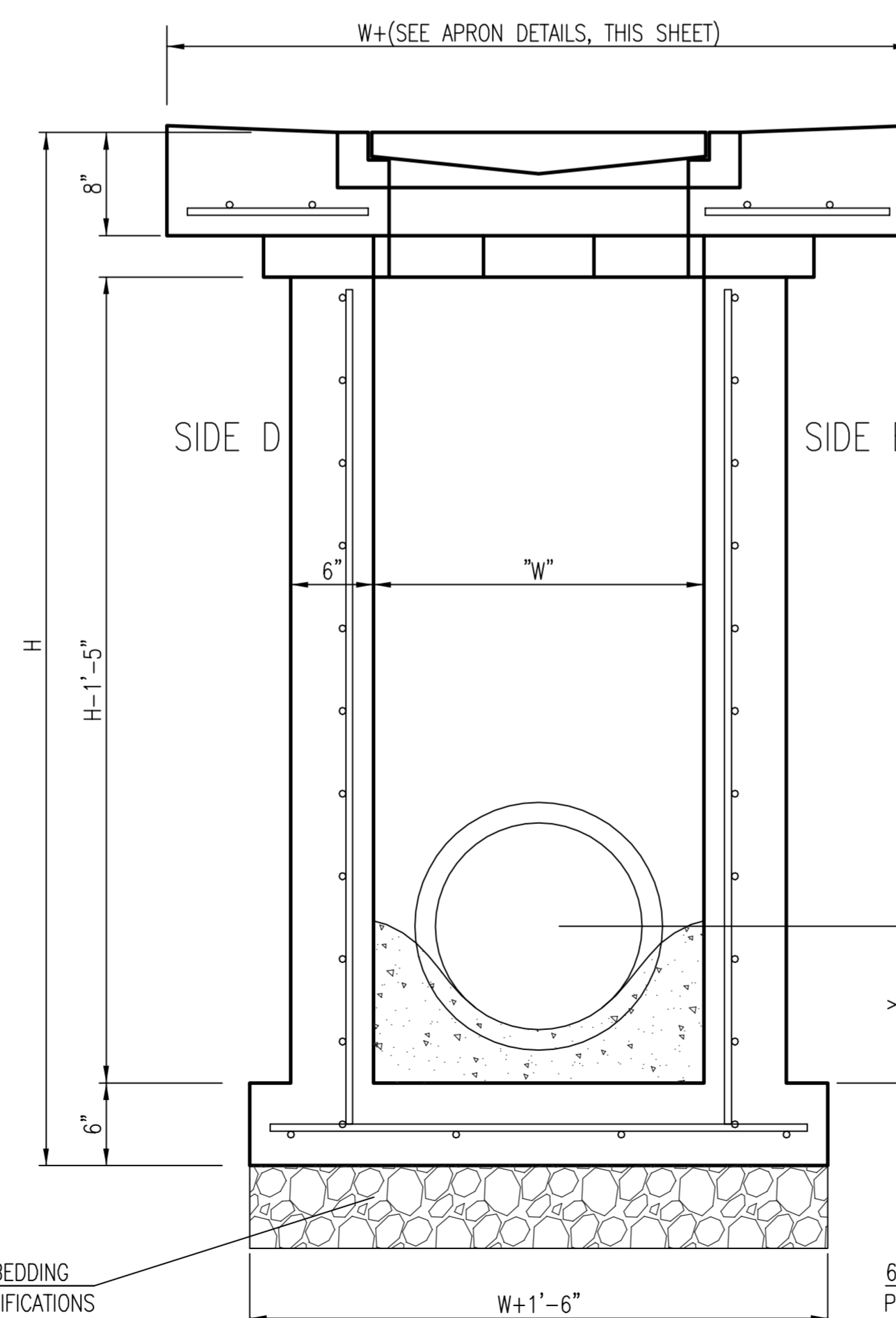
\* APRON TO EXTEND ON ALL 4 SIDES OF INLET.  
DESIGNER TO DESIGNATE APRON SIZE.

GENERAL NOTES

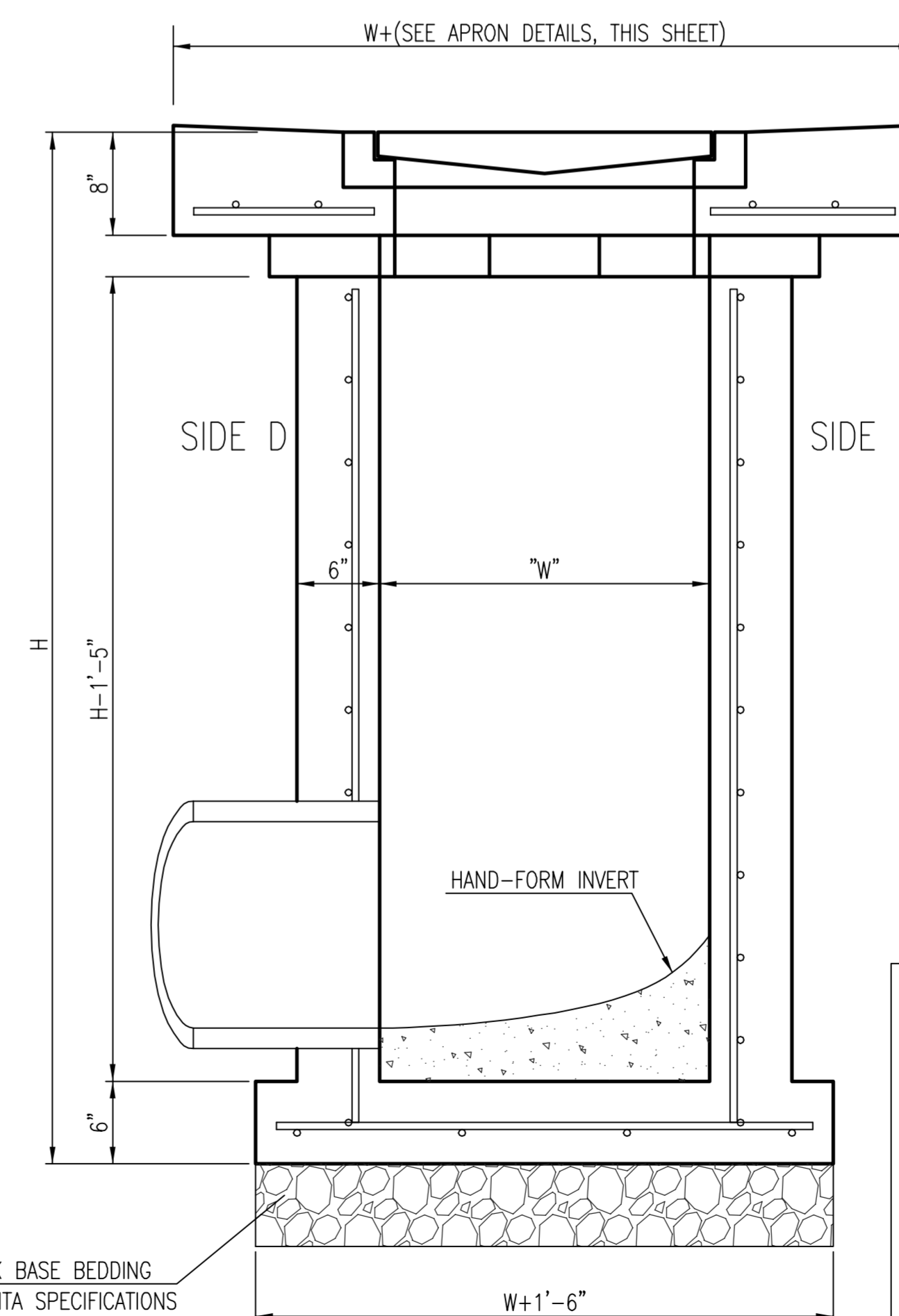
1. GRATE FRAME TO BE INSTALLED ON THIN MORTAR CUSHION TO INSURE FULL SUPPORT ALONG BRICK. CONCRETE USED FOR INLET CONSTRUCTION SHALL CONFORM TO CITY OF WICHITA SPECIFICATIONS FOR CONCRETE PAVEMENT MIX.
2. INLET INVERT SHALL BE SHAPED WITH 8 SACK SAND MIX CONCRETE TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE INLET WILL BE SELF CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.
3. THE ENDS OF ALL PIPES INSTALLED IN INLETS SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE INLET WALL.
4. INLET FRAME AND GRATE TO BE DEETER #2433, EJIW #5391-Z1 OR APPROVED EQUAL FOR 2'x2' SINGLE DROP INLET AND DEETER #2434, EJIW #5391 Z3 OR APPROVED EQUAL FOR 2'x4' DOUBLE DROP INLET.
5. CONTRACTOR SHALL REMOVE LIFTING HOOKS AFTER INSTALLATION. RECESSES IN INLET WALL SHALL BE GROUTED FLUSH TO THE INLET WALL WITH HYDRAULIC CEMENT AFTER THE INLET IS IN PLACE. LIFTING HOLES THRU THE INLET WALL WILL NOT BE ACCEPTED.



SECTION "A-A"



SECTION "B-B"  
END OUTLET



SECTION "B-B"  
SIDE OUTLET



SINGLE/DOUBLE  
DROP INLET

CITY ENGINEER

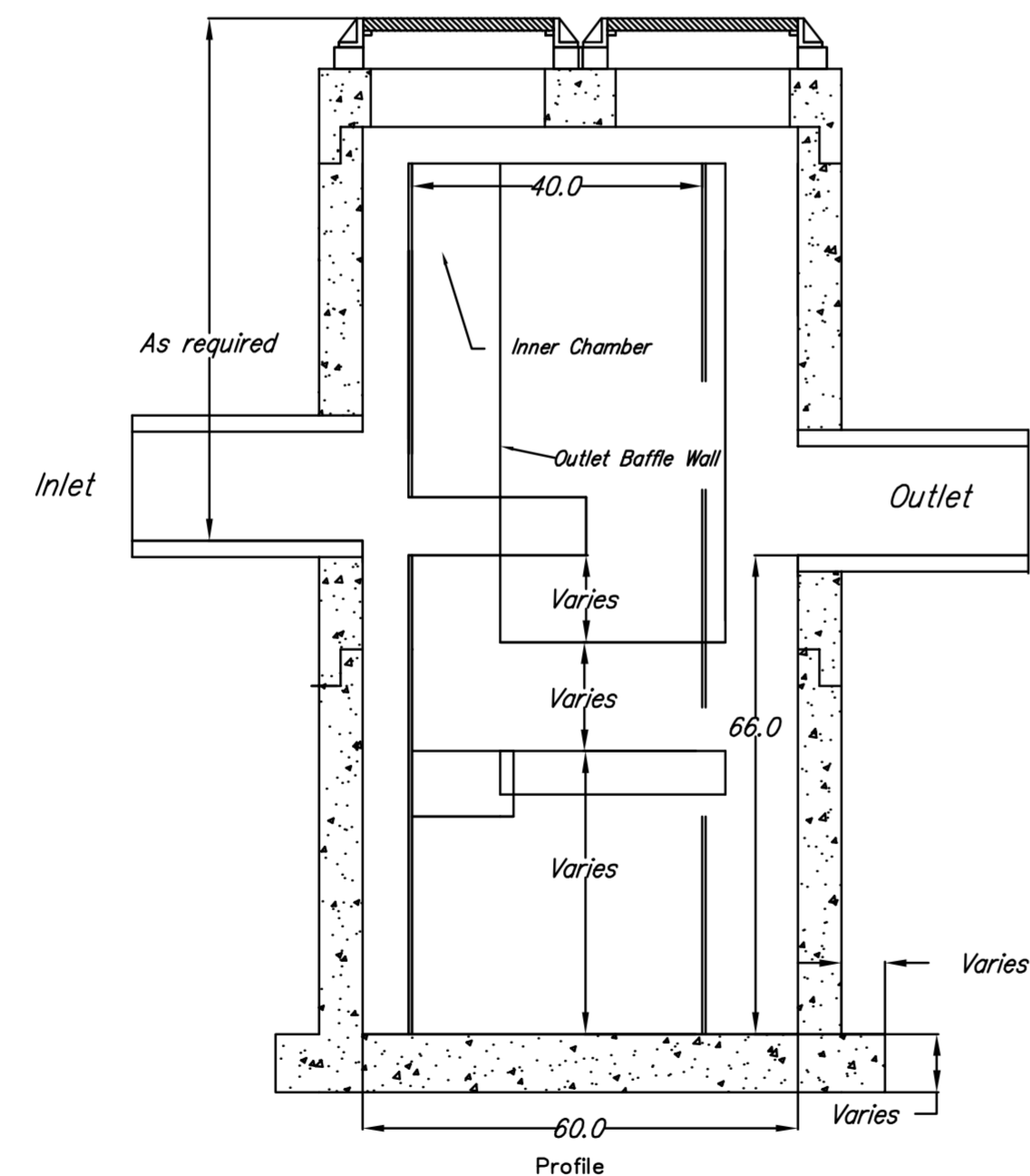
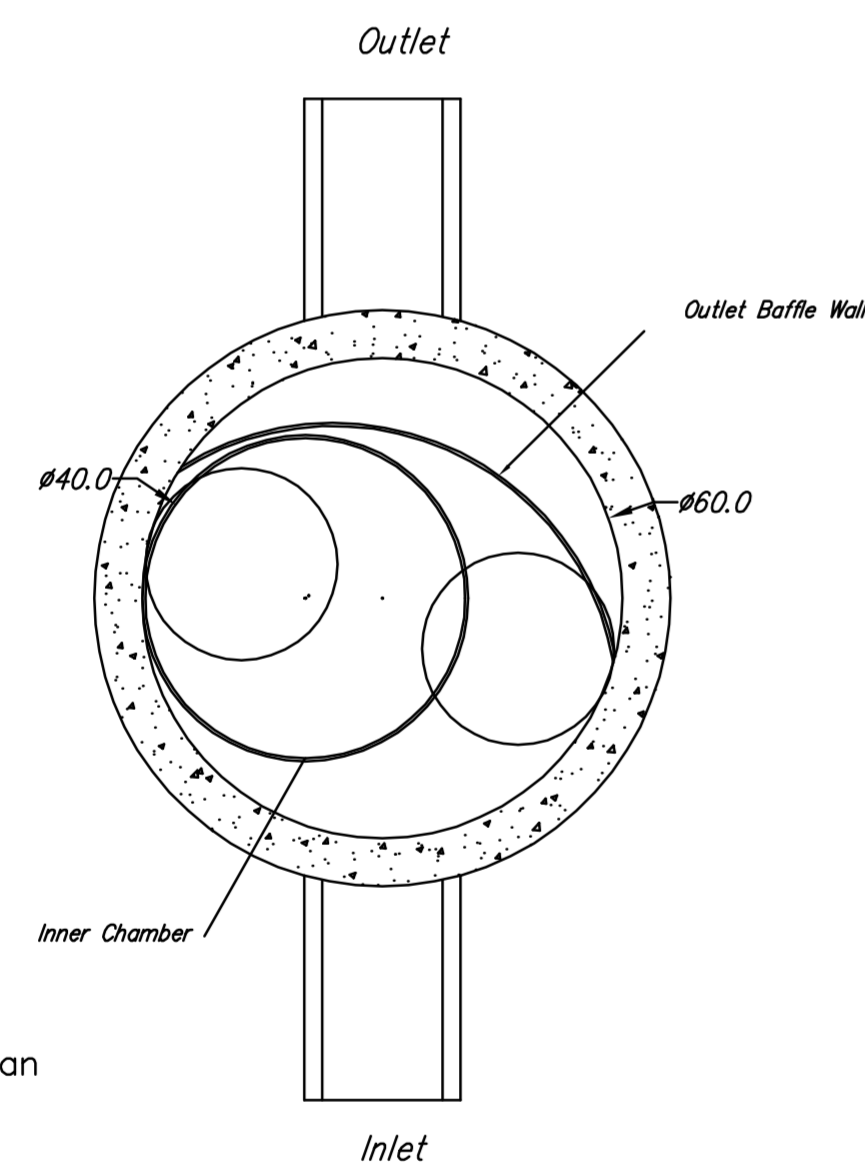
JAMES L. ARMOUR, P.E., L.S.

PROJECT NUMBER 101PPD	OCA NUMBER	DATE 10/11
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CITY ENGINEER'S OFFICE  
CITY HALL - SEVENTH FLOOR  
455 NORTH MAIN STREET  
WICHITA, KANSAS 67202-1620  
(316) 268-4501

DESIGN Staff	DRAWN Staff
-----------------	----------------

SHEET  
8 of 13



U.S. Patent No. 6,951,619

Dimensions in inches  
 Permanent Pool Volume = 800 US gallons  
 The Hydroguard must be cleaned after the construction period if it is used as a sediment and erosion control measure  
 The Hydroguard should be inspected once per year for stabilized sites  
 Inspection will determine the maintenance frequency (annual maintenance or once every two years typical for stabilized sites)  
 Sites with unstable conditions (exposed soil or materials storage) will require more frequent inspection and maintenance

Hydroworks, LLC  
 50 S. 21st St., Kenilworth, NJ 07033  
 Phone: 888-290-7900 Fax: 888-783-7271  
 Web: www.hydroworks.com


**Hydroworks HG5 (60"  $\phi$ )**

**PROJECT:**

**LOCATION:**

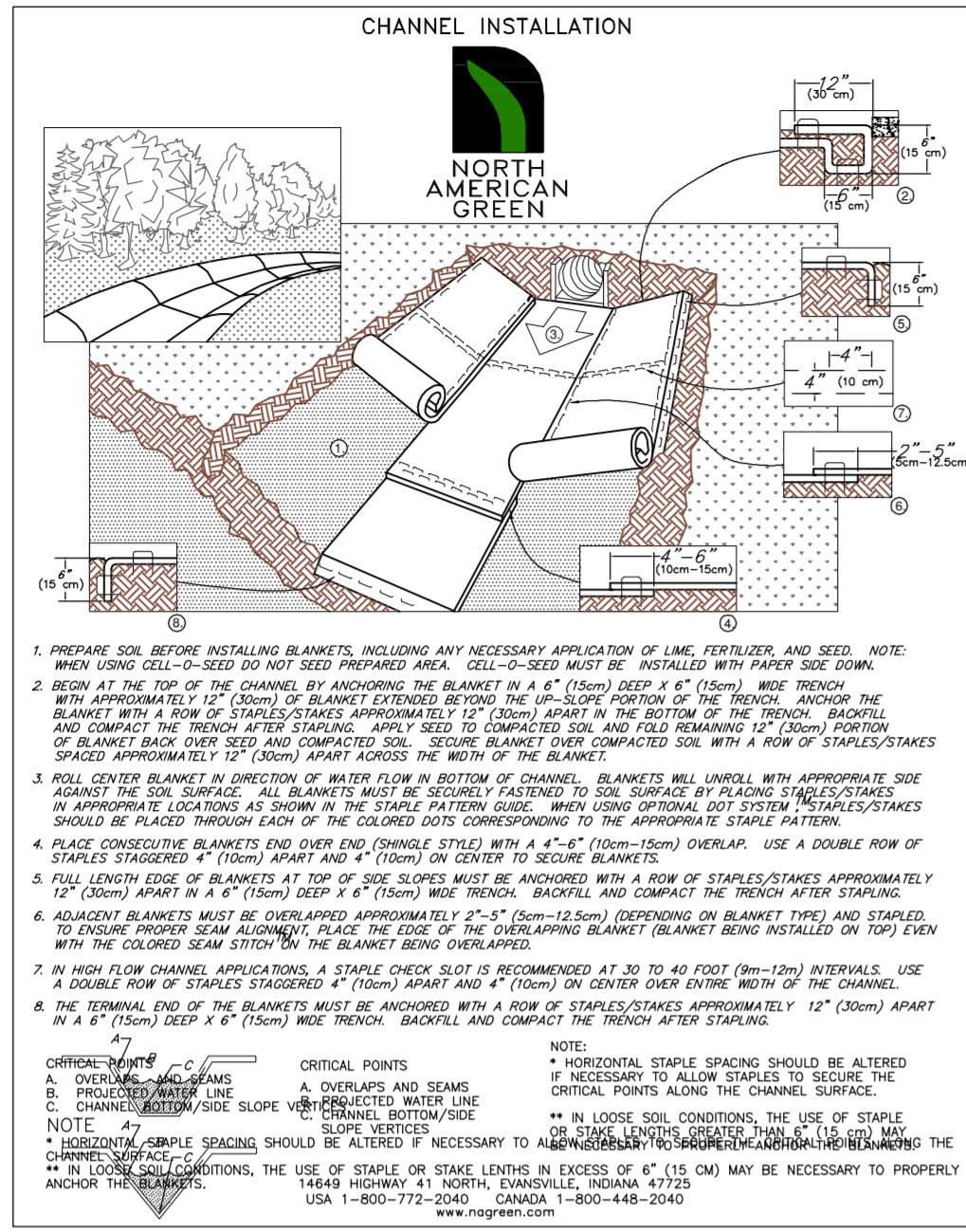
**REVISION DATE:** 02/10/2011



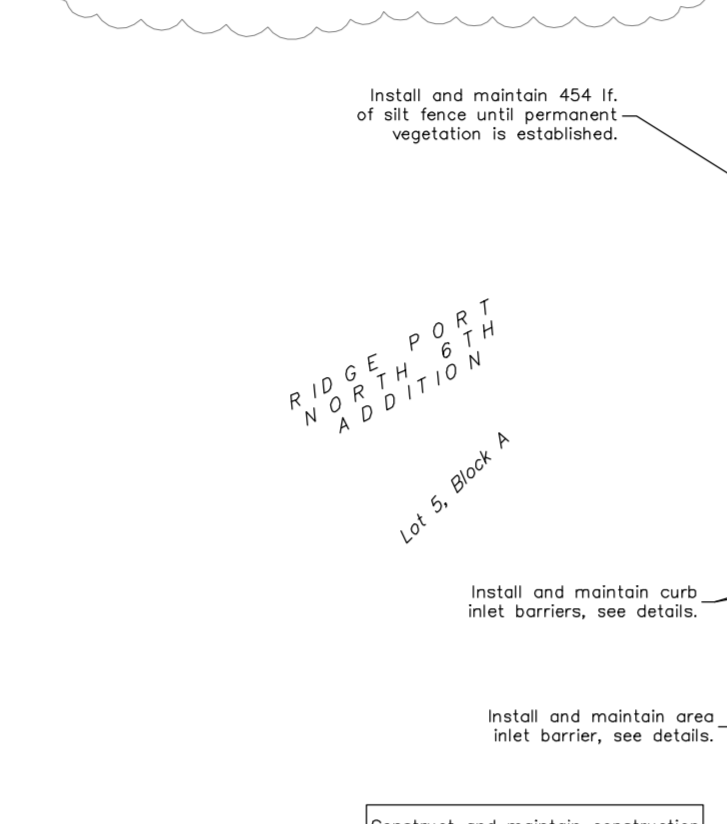
 <b>Baughman</b>	Lots 4&8 of Ridge Port North 6th Adc <b>WATER QUALITY UNIT DETAILS.</b> Wichita, Kansas	
	<small>Baughman Company, P.A. 315 Ellis St. Wichita, KS 67211 P 316.262.7271 F 316.262.0149          ENGINEERING   SURVEYING   PLANNING   LANDSCAPE ARCHITECTURE</small>	
PROJECT NUMBER 0101 PPD 607853	DESIGN PSB	DRAWN psb
REVISIONS:	APPROVED PSB	DATE 12/16/2011
	SCALE varies	SHEET <b>9 OF 13</b>



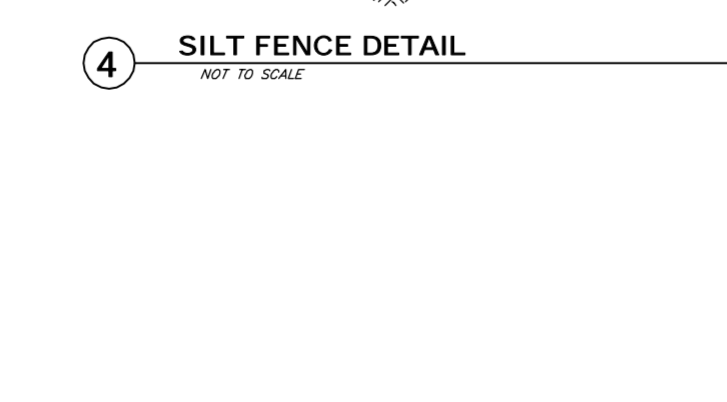
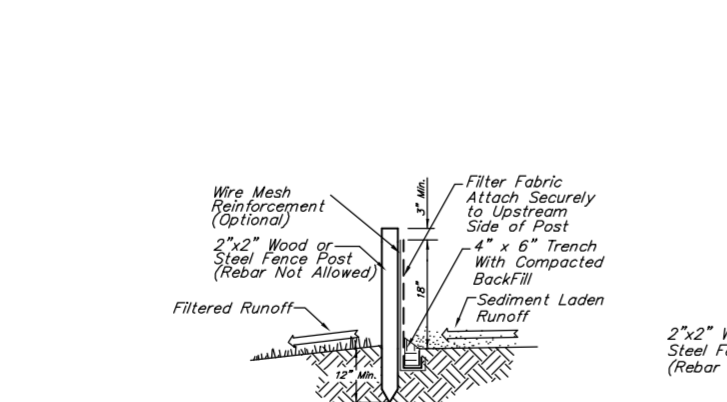
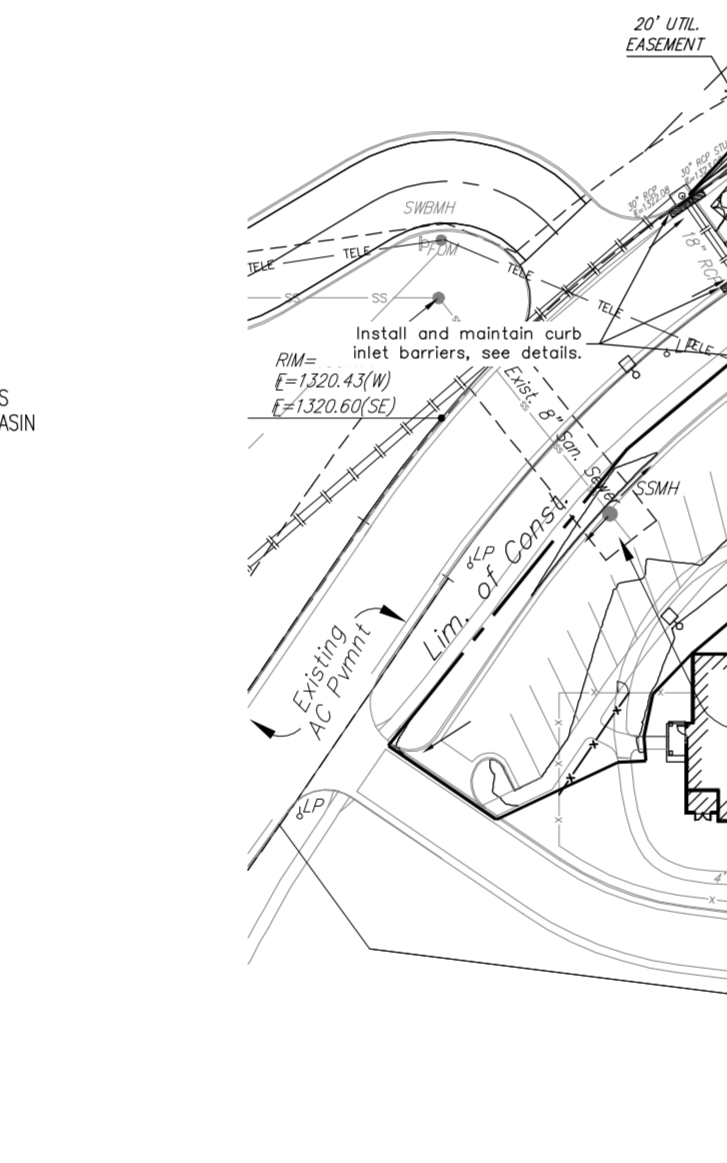




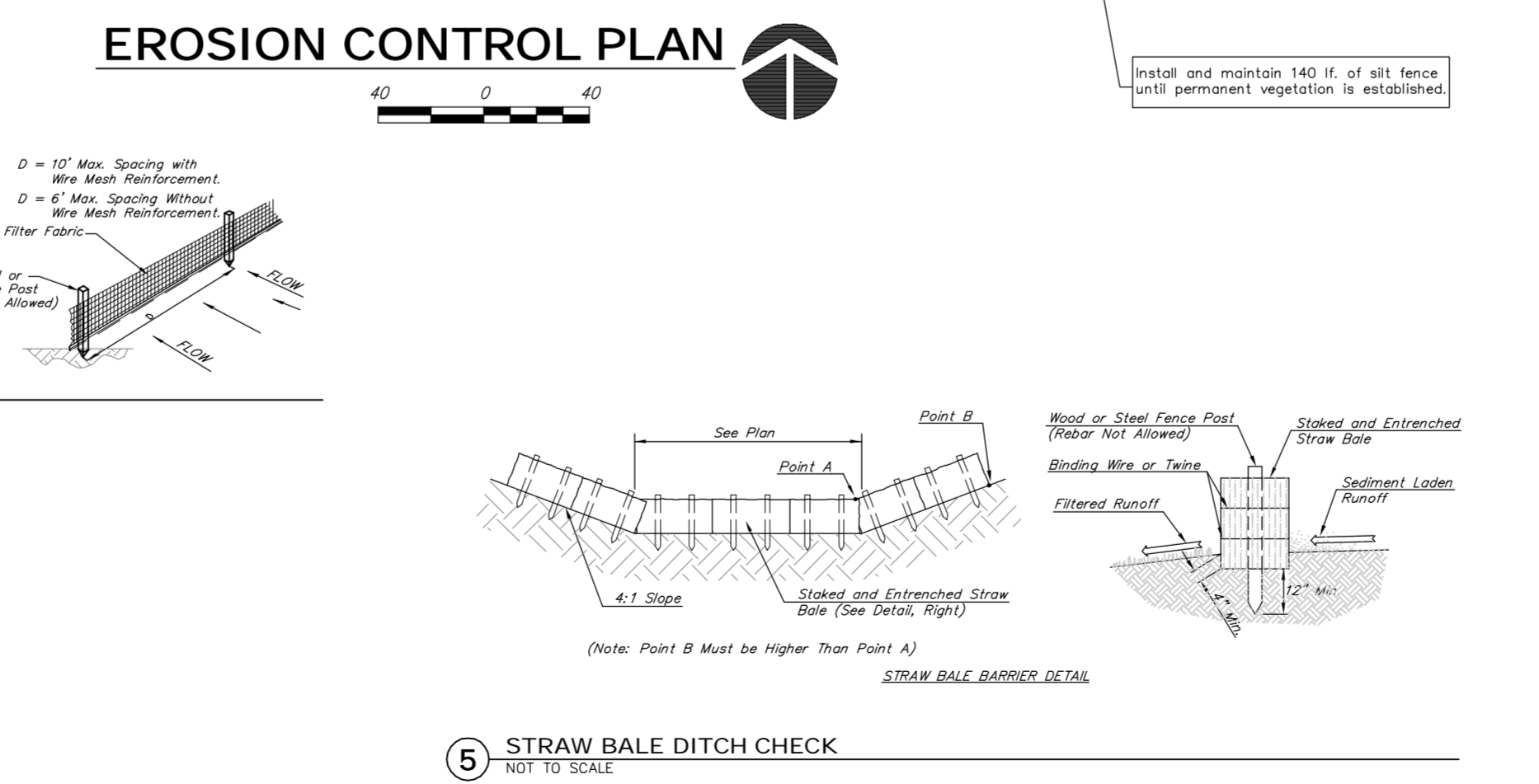
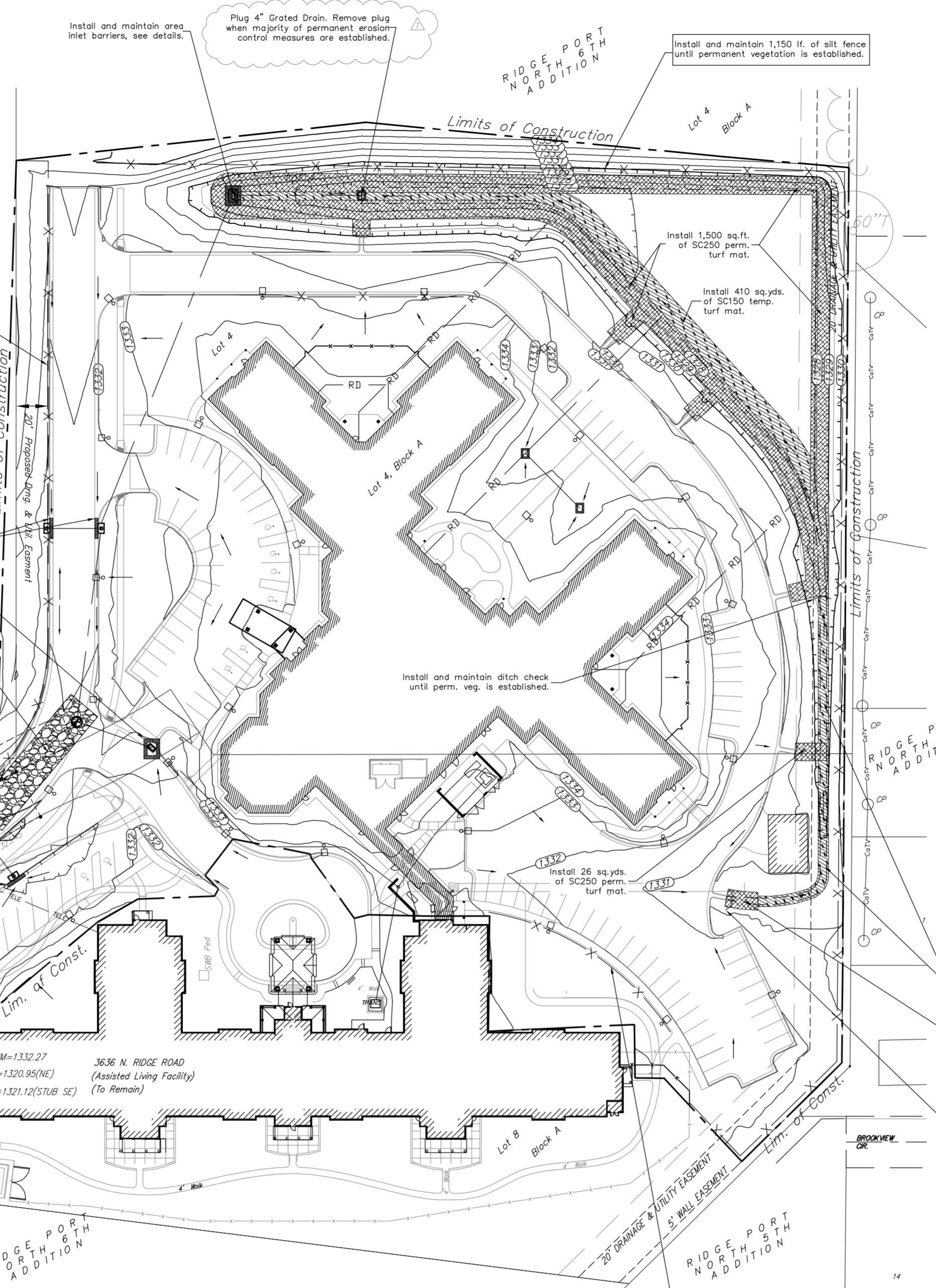
Basin Size	Flow	Volume	Flow	Volume
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1:25	15,099	7,234	1,208.0	15,600
1:30	23,156	14,639	1,208.0	15,600
1:35	24,372	23,940	1,208.0	15,600
1:40	28,341	45,395	1,208.0	15,600
1:50	35,820	71,329	1,208.0	15,600



**1 SC250 & SC150 Erosion Control Mat Detail**  
NOT TO SCALE



**6 TYPE 1 INLET PROTECTION**  
NOT TO SCALE



### BENCHMARK

BENCHMARK-1:  
 □ TOP OF INLET SE OF SE CORNER LOT 2, RIDGE PORT NORTH  
 ELEV.=1330.89 (NAVD88)

BENCHMARK-2:  
 □ TOP OF CURB SOUTH END OF SOUTH MEDIAN AT ENTRANCE ON  
 37TH STREET NORTH  
 ELEV.=1333.39 (NAVD88)

BENCHMARK-3:  
 □ TOP OF CURB WEST END OF ENTRANCE TO RETIREMENT COMPLEX  
 ELEV.=1331.62 (NAVD88)

### LEGAL DESCRIPTION

Parcel B of Lot 4, portions of Lot 8 & Reserve C of Block A, Ridge Port North 6th Addition, Wichita, Sedgewick County, Kansas.

### SITE INFORMATION

Total Area Disturbed: ±279,707sq. ft. (6.42 acres)  
 Impervious Area: ±137,222 sq. ft. (3.15 acres)  
 Building Area: 44,368 sq. ft.  
 Parking Required: 103 spaces  
 Accessible Spaces Required: 3  
 Parking Provided: 8 Universal Acc. Spaces provided

### EROSION CONTROL NOTES:

1. No land clearing or grading shall begin until all applicable erosion control measures have been installed. This project is subject to this SWPP Plan. The Contractor shall comply with any unusual requirements as necessary for the site to be in compliance during construction, per this plan and City specs (See #11).
2. All exposed areas shall be seeded and all permanent erosion control measures installed immediately after final GRADING.
3. Should construction stops for longer than 14 days, the site temporary stabilization is to be installed immediately and established with 21 days.
4. Maintain erosion control measures after each rain and at least once a week.
5. This plan shall not be considered all inclusive as the contractor shall take all necessary precautions to prevent soil sediment from leaving the site.
6. Contractor shall comply with all state and local ordinances that apply.
7. Additional erosion and sediment control measures will be installed if deemed necessary by on site inspection.
8. Land disturbing activities shall not commence until approved to do so has been received by governing authorities.
9. If installation of storm drainage system should be interrupted by weather or nightfall, the pipe ends shall be covered with filter fabric.
10. See Landscape Plan for ground treatments in all disturbed areas beyond impervious surfaces.
11. This SWPP Plan should be in job trailer and/or on site at all times. The Contractor is responsible for any needed changes, updates or maintenance to BMP's on site. This plan may change and updates need to be recorded and documented on the plan. This plan is a flexible plan, due to changing site conditions and weather. Please inform Landscape Architect and/or Engineer of changes to plan.
12. ANY substitutions for the sediment control devices shown, must be approved by the Landscape Architect and/or Engineer prior to any uses on site.
13. An NPDES Permit Application has been submitted for this property. A copy of this application must be kept at the job site for the duration of the construction process.



**GLMV Architecture**  
 420 S. Emporia, Wichita, KS 67202  
 Tel: (316) 265-9367  
 www.glmv.com

**For Reference Only**

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**VIA CHRISTI**  
**VILLAGE RIDGE/LUMEN CHRISTI CHAPEL**  
**SKILLED CARE FACILITY**  
 WICHITA, KANSAS

Rev.	Date	Description
1/28/12		Bid Set Documents
12/09/11		Final Review Documents
09/15/11		GLMV Documents

Job No. 1226.000  
 Date 12/16/11  
 Drawn  
 Checked  
 16 DEC 2011  
**C2.9**  
 16 DEC 2011  
 12/16/11

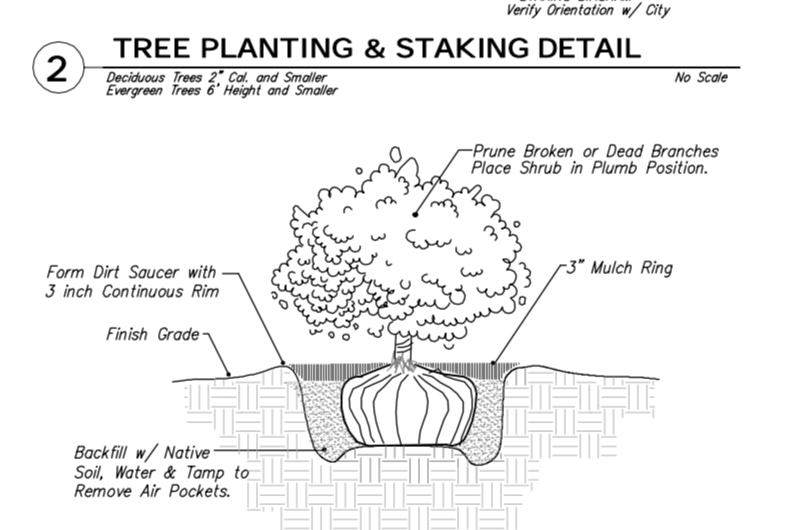
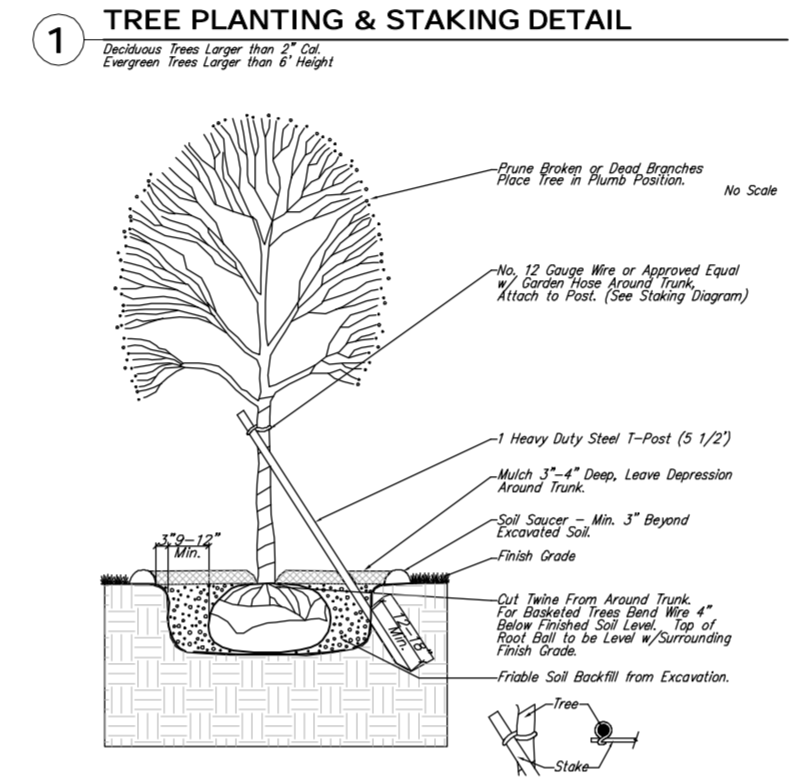
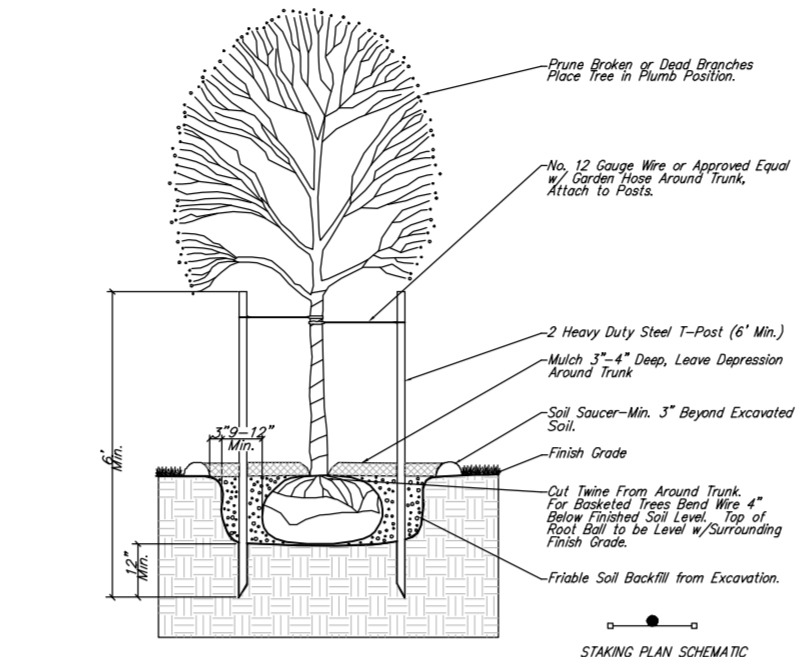
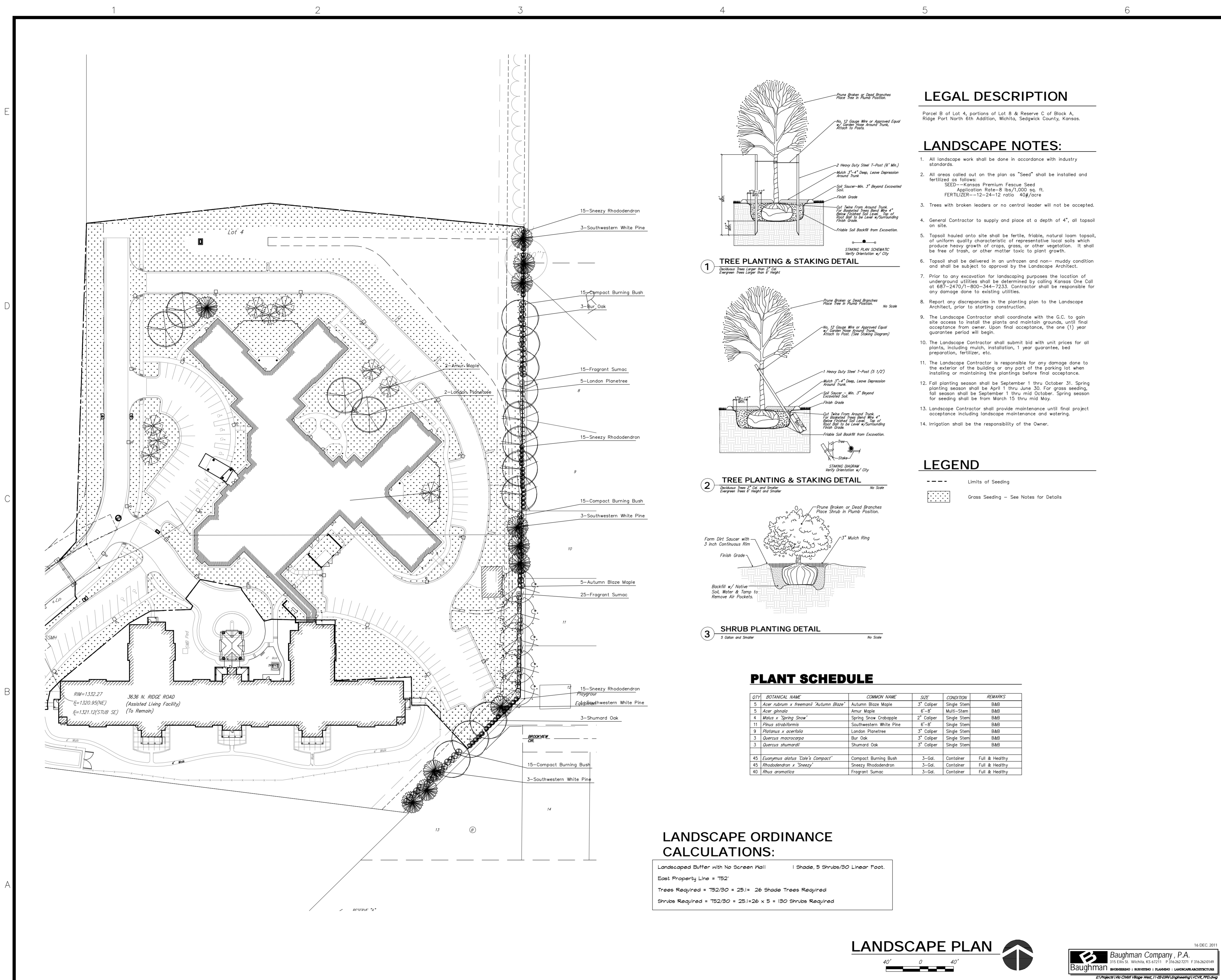
**Baughman**  
 315 Ellis St. Wichita, KS 67211 P 316-262-7271 F 316-262-0149  
**ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE**

**REFERENCE COPY GRADING PLAN**  
 Wichita, Kansas

PROJECT NUMBER: 0101 PPD 607853  
 DESIGN: psb  
 DRAWN: psb  
 APPROVED: psb  
 DATE: 12/16/2011

REVISIONS:

SCALE: varies  
 SHEET: 12 OF 13



**LEGAL DESCRIPTION**

Parcel B of Lot 4, portions of Lot 8 & Reserve C of Block A, Ridge Port North 6th Addition, Wichita, Sedgewick County, Kansas.

**LANDSCAPE NOTES:**

- All landscape work shall be done in accordance with industry standards.
- All areas called out on the plan as "Seeds" shall be installed and fertilized as follows:  
SEED--Kansas Premium Fescue Seed  
Application Rate--8 lbs/1,000 sq. ft.  
FERTILIZER--12-24-12 ratio 40#/acre
- Trees with broken leaders or no central leader will not be accepted.
- General Contractor to supply and place at a depth of 4", all topsoil on site.
- Topsoil hauled onto site shall be fertile, friable, natural loam topsoil of uniform quality characteristic of representative local soils which produce heavy growth of crops, grass, or other vegetation. It shall be free of trash, or other matter toxic to plant growth.
- Topsoil shall be delivered in an unfrozen and non-muddy condition and shall be subject to approval by the Landscape Architect.
- Prior to any excavation for landscaping purposes the location of underground utilities shall be determined by calling Kansas One Call at 687-2437 or 800-344-7233. Contractor shall be responsible for any damage done to existing utilities.
- Report any discrepancies in the planting plan to the Landscape Architect, prior to starting construction.
- The Landscape Contractor shall coordinate with the G.C. to gain site access to install the plants and maintain grounds, until final acceptance from owner. Upon final acceptance, the one (1) year guarantee period will begin.
- The Landscape Contractor shall submit bid with unit prices for all plants, including mulch, installation, 1 year guarantee, bed preparation, fertilizer, etc.
- The Landscape Contractor is responsible for any damage done to the exterior of the building or any part of the parking lot when installing or maintaining the plantings before final acceptance.
- Fall planting season shall be September 1 thru October 31. Spring planting season shall be April 1 thru June 30. For grass seeding, fall season shall be September 1 thru mid October. Spring season for seeding shall be from March 15 thru mid May.
- Landscape Contractor shall provide maintenance until final acceptance including landscape maintenance and watering.
- Irrigation shall be the responsibility of the Owner.

**LEGEND**

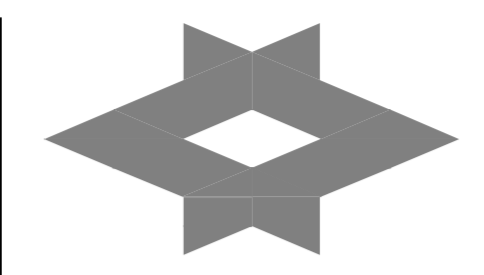
- Limits of Seeding
- Grass Seeding - See Notes for Details

**PLANT SCHEDULE**

QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	REMARKS
5	<i>Acer rubrum x freemanii</i> 'Autumn Blaze'	Autumn Blaze Maple	3" Caliper	Single Stem	BAB
5	<i>Acer glabrum</i>	Amur Maple	6"-8"	Multi-Stem	BAB
4	<i>Malus x Spring Snow</i>	Spring Snow Crabapple	2" Caliper	Single Stem	BAB
11	<i>Pinus strobus</i>	Southwestern White Pine	6"-8"	Single Stem	BAB
9	<i>Platanus x acerifolia</i>	London Planetree	3" Caliper	Single Stem	BAB
3	<i>Quercus macrocarpa</i>	Bur Oak	3" Caliper	Single Stem	BAB
3	<i>Quercus shumardii</i>	Shumard Oak	3" Caliper	Single Stem	BAB
45	<i>Euonymus alatus</i> 'Sole's Compact'	Compact Burning Bush	3-Gal.	Container	Full & Healthy
45	<i>Rhododendron x Sneezy</i>	Sneezy Rhododendron	3-Gal.	Container	Full & Healthy
40	<i>Rhus aromatica</i>	Fragrant Sumac	3-Gal.	Container	Full & Healthy

**LANDSCAPE ORDINANCE CALCULATIONS:**

Landscape Buffer with No Screen Wall | Shade, 5 Shrubs/50 Linear Foot.  
 East Property Line = 752'  
 Trees Required = 752/50 = 25 | = 26 Shade Trees Required  
 Shrubs Required = 752/50 = 25 | = 26 x 5 = 130 Shrubs Required



**GLMV Architecture**  
 420 S. Emporia, Wichita, KS 67202  
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 WICHITA, KANSAS

Mark	Date	Description
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Job No. 1226.000  
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**Baughman** Engineering | Surveying | Planning | Landscape Architecture  
 315 Ellis St., Wichita, KS 67211 P 316.262.7271 F 316.262.0149  
 PROJECT NUMBER 0101 PPD 607853  
 DESIGN PSB DRAWN psb  
 APPROVED PSB DATE 12/16/2011  
 SCALE varies  
 SHEET **13 OF 13**