

AS BUILT PLANS

Contractor: Ewertz
 Inspector: Fred Smith, Baughman Co
 pdf's by: KEK,

STORMWATER DRAIN IMPROVEMENTS

to serve

Greene Vision Group - Eye Clinic

Lot 1 & Part of Lot 2, Huntington Park Addition

Private Project Drainage: 0185 PPD (607861)

CITY OF WICHITA, KANSAS

Gary Janzen, P.E. - City Engineer

August 2013

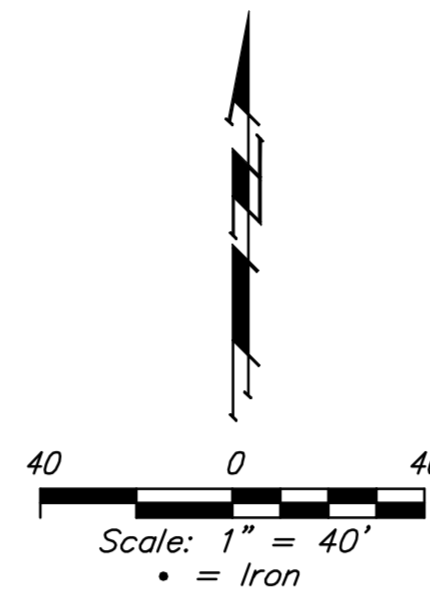
GENERAL NOTES:

- 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 1-888-482-4950
 Westar Energy 383-8650
 Black Hills Energy (Gas) 1-800-303-0357
 ATT 268-2245
 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
- Utility service lines, poles, valve boxes, meters, and enclosures 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.
- 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.
- 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.
- Contractor shall furnish the inspector with a copy of the manufacturer's certification for any 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.
- 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.
- All 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.
- 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.
- The Baseline for this project is the centerline of Maize Rd. = Station 20+00.

BENCHMARKS

BM #1:
 "□" Chiseled on Top of Curb.
 Elevation=1342.67 (NAVD 88)

BM #2
 "□" Chiseled on Top of Catch Basin.
 Elevation=1344.16 (NAVD 88)



SHEET INDEX:

Title Sheet	1
Line 1 & Line 1A	2
ERU Plan / ADS Basin Detail	3
Type 10 Inlet Detail	4
Type 1 Inlet Detail	5
Reference Grading Plan	6
Reference Erosion Control Plan	7-8

SITE ERU INFORMATION

Parcel 1: (Greene Vision Group Facility)
 Total Area: ±95,562 sq. ft. (2.19 acres)
 Disturbed Area: ±95,562 sq. ft. (2.19 acres)
 Ex. Impervious Area: 0.00 sq. ft. (0.00 acres)
 Impervious Area: ±48,371 sq. ft. (1.11 acres)
 Future Imp. Area: ±18,313 sq. ft. (0.42 acres)
 Total Future Imp. Area: ±66,684 (1.53 acres)

Parcel 2: (Middle Parcel)
 Total Area: ±83,974 sq. ft. (1.93 acres)
 Maximum Future Impervious Area: ±83,974 sq. ft. (1.93 acres)

Parcel 3: (South Parcel)
 Total Area: ±82,198 sq. ft. (1.88 acres)
 Maximum Future Impervious Area: ±82,198 sq. ft. (1.64 acres)

Total Future Impervious Area:
 Maximum Impervious Area (without additional Water Quality Measurements): ±235,616 sq. ft.
 Min. Pervious Area (without additional Water Quality Measurements): ±26,180 sq. ft.

Stormwater Compliance

Downstream Channel Protection and Water Quality Protection would typically be addressed with improvements to the existing downstream offsite wet basin. The basin owner is not allow revisions to the existing basin. In lieu of Downstream Channel Protection (CPv = 31,670 cu.ft.), a Hydroworks HG7 Water Quality Unit will be constructed to exceed Water Quality Protection for the above noted commercial area and address water quality at SW corner of Parcel 3. This improvement has been developed to satisfy Section 16.32 of the City Code.

APPROVED AS NOTED
 BY CITY ENGINEER OF WICHITA

Engineering: *[Signature]* 08/28/2013

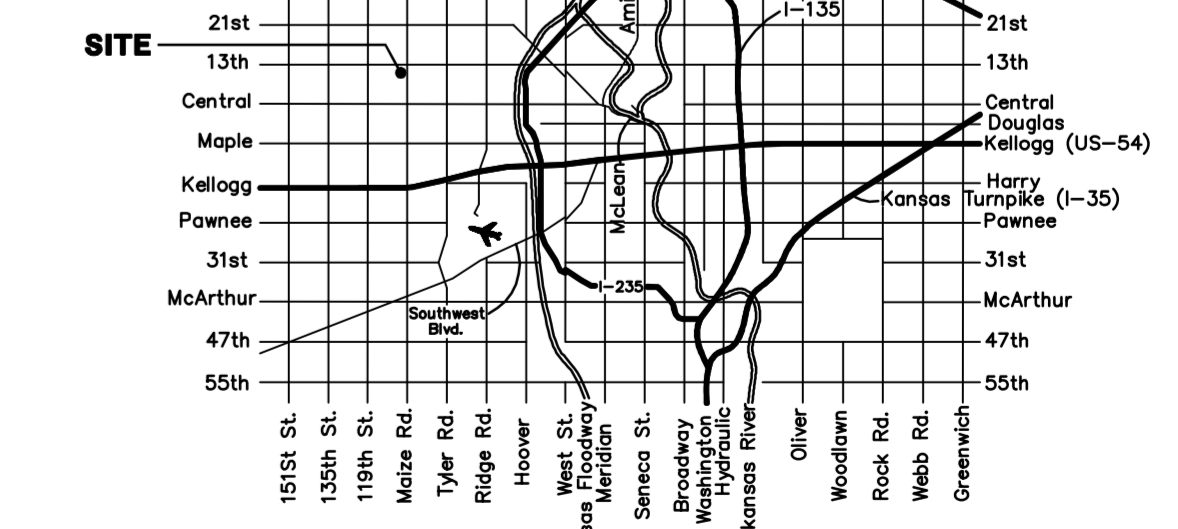
Stormwater: *[Signature]* 8-28-13

NOTE TO CONTRACTORS

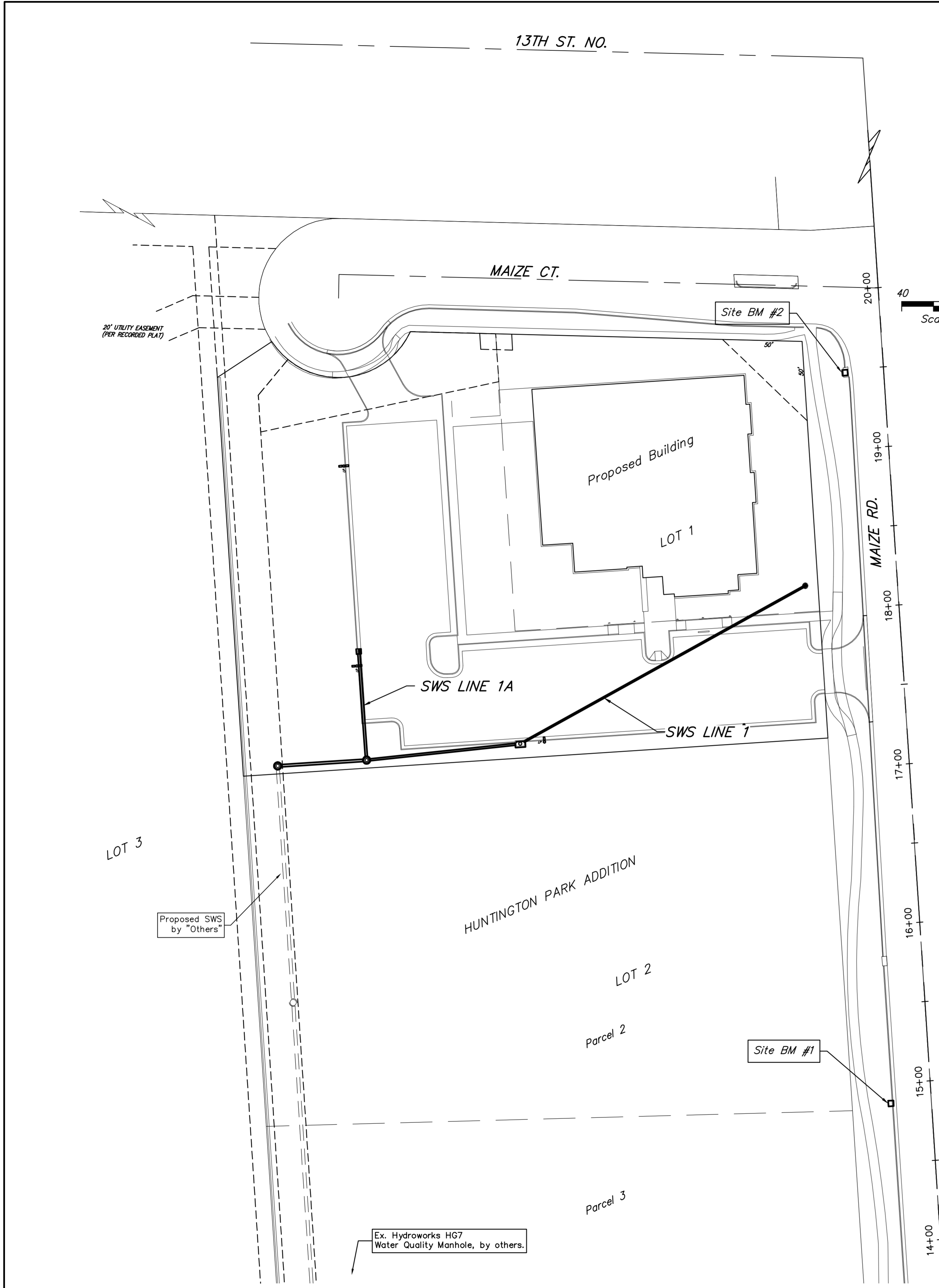
Installation, inspection and testing for this project is to be provided by a Licensed Consulting Engineering Firm under contract with the Owner/Developer. Said inspection to be in accordance with the City of Wichita standard construction engineering practices and certified by a Licensed Professional 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).



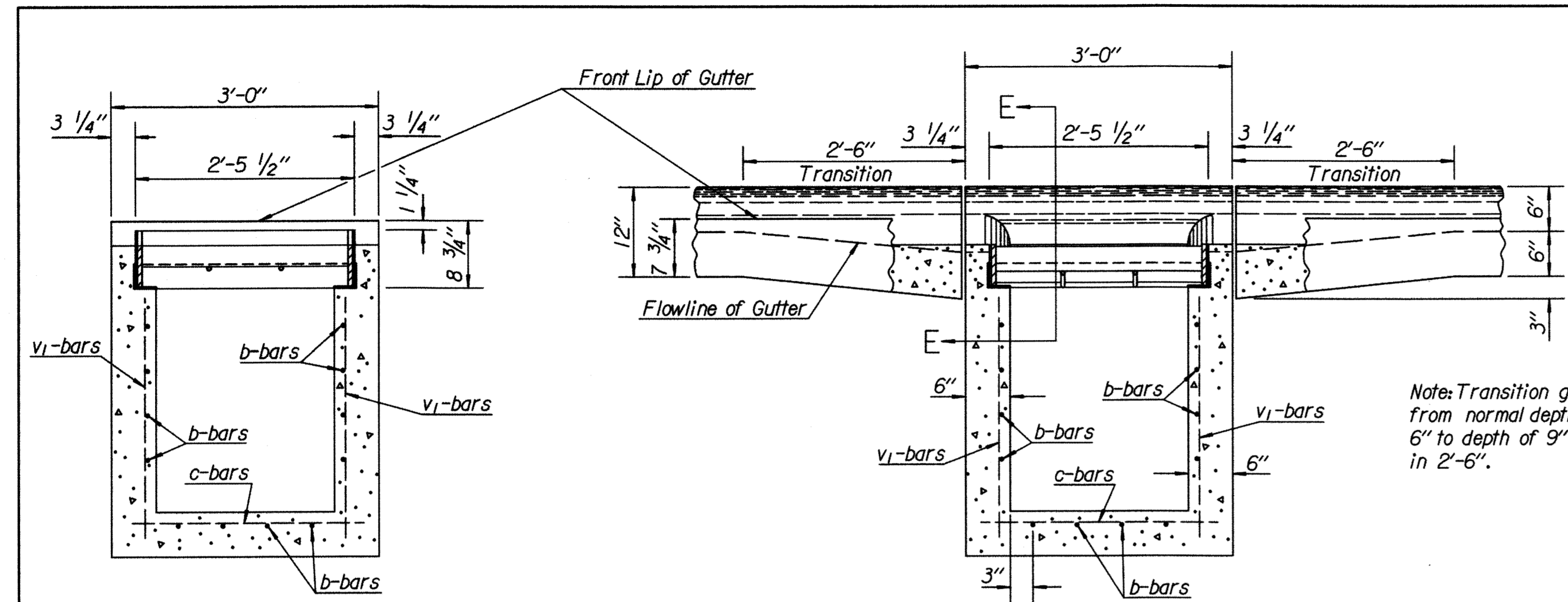
Baughman Company, P.A. 315 Ellis St. Wichita, KS 67211 P 316-262-7271 F 316-262-0149
 ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE



VICINITY MAP



STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS				

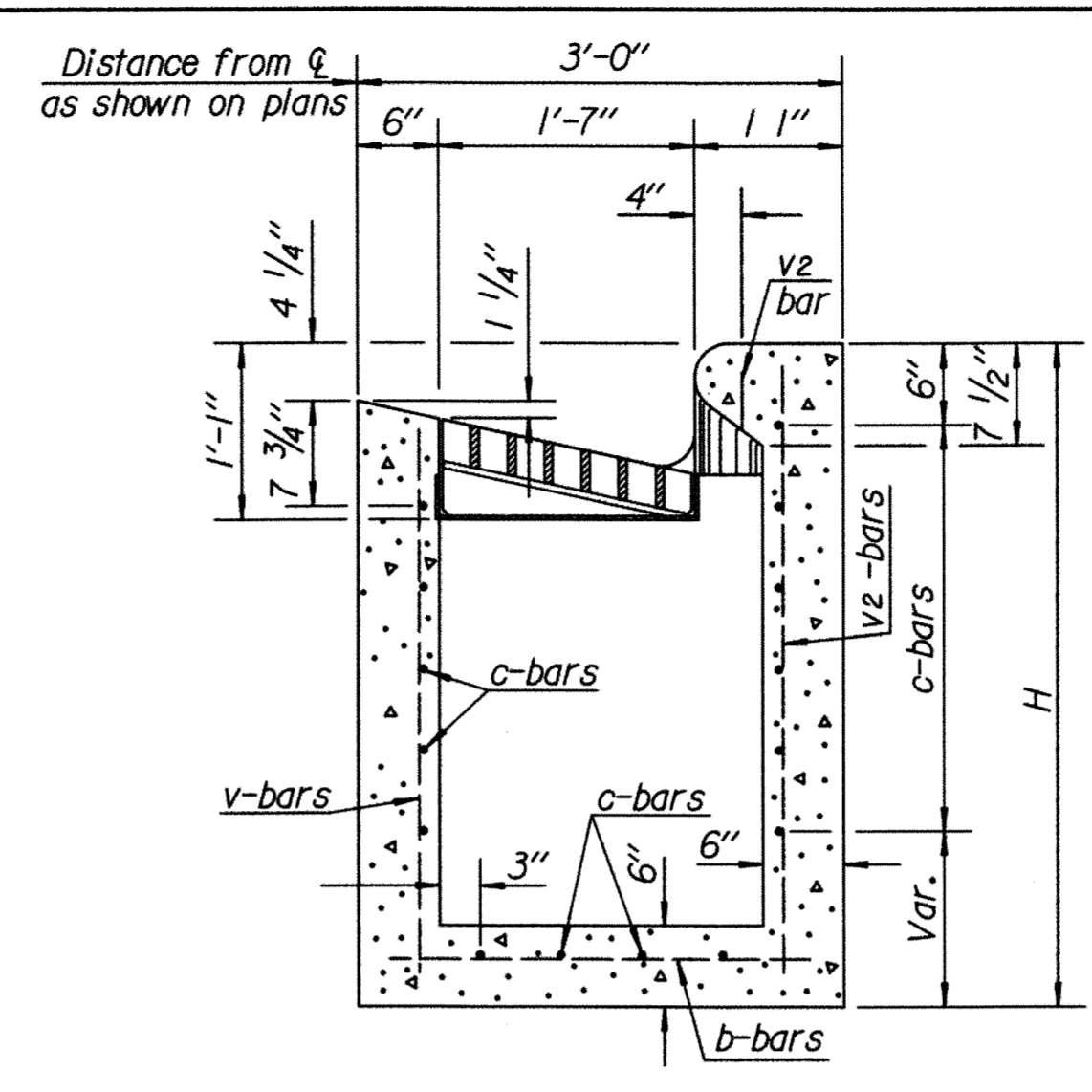


SECTION D-D

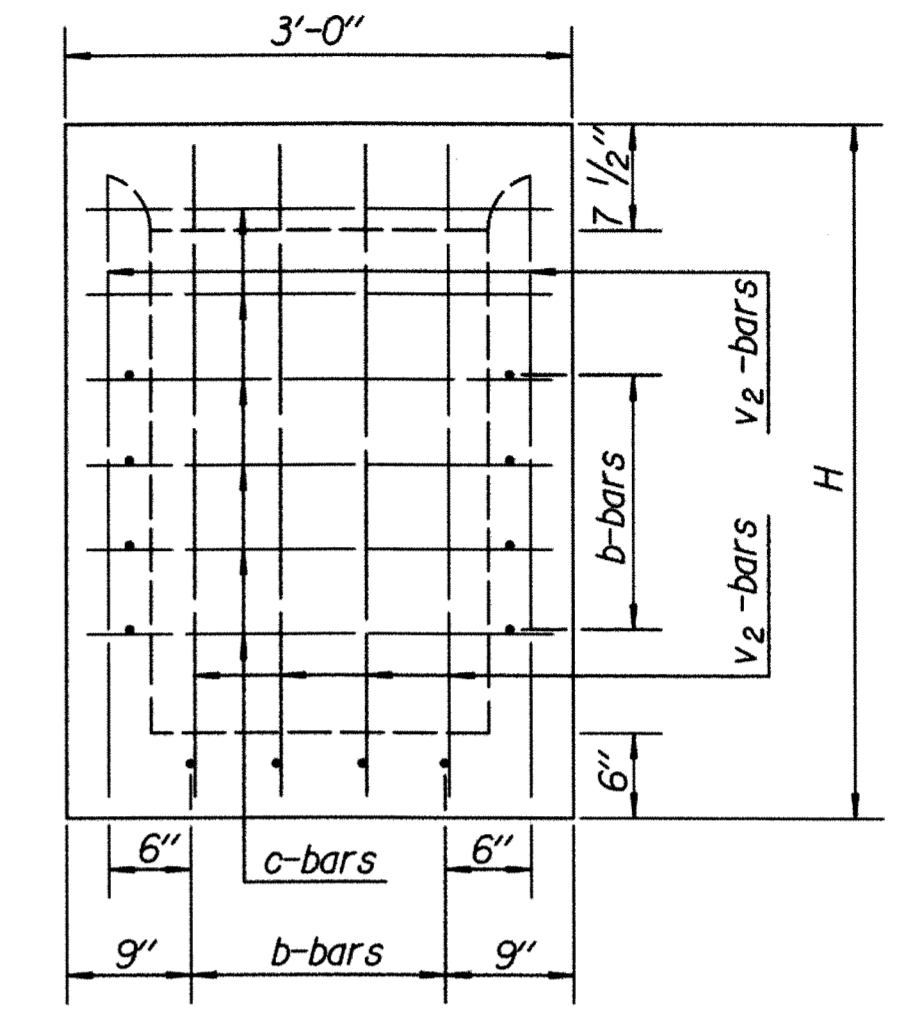
SECTION C-C

Note: Transition gutter from normal depth of 6" to depth of 9" at inlet in 2'-6".

Note: All reinforcing shall be #4 at 6" centers. Minimum clear distance to reinforcement shall be 1 1/2".

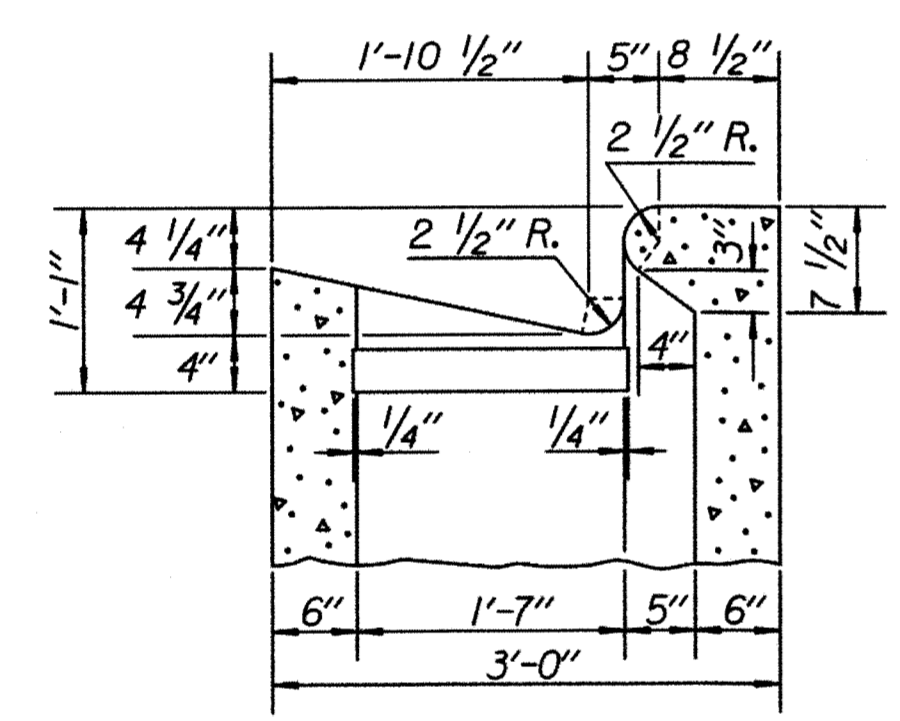


SECTION A-A

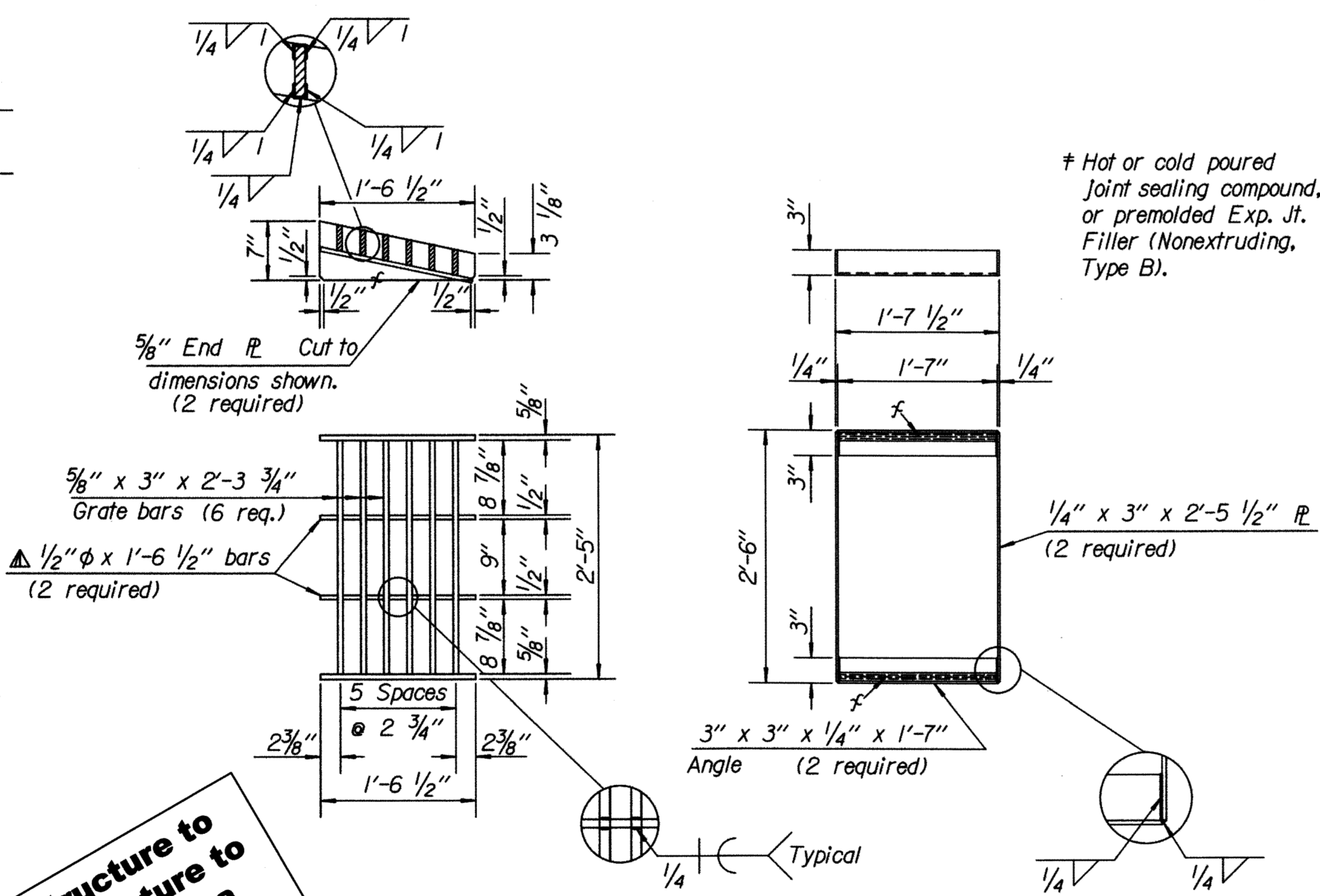


REAR WALL

Notes:
 Concrete Grade 3.0, Concrete Grade 3.0 (AE), or the mix used in Concrete Pavement, at the Contractor's option, shall be used throughout.
 All exposed edges shall be finished with an edging tool. Reinforcing bars shall be bent around pipe.
 No reduction in concrete quantities shall be made for pipe openings.
 When directed by the Engineer, a small opening in the back of the inlet shall be provided in order to drain a low area. Reinforcing bars shall extend through the opening. No reduction in concrete quantities will be made for this opening.
 The floor of the inlet shall be shaped as shown in various "EXAMPLES" on Reinforced Concrete Manhole Standard Drawing RD633.
 No addition in concrete quantities shall be made for shaping floor of inlet.
 No reduction in pay length of curb, gutter, or curb & gutter will be made through the inlet area.
 All exposed structural steel shall be painted with a coat of inorganic zinc primer and then with a topcoat or a field coat of organic zinc, each coat to be 3 to 4 mils. As an alternate, the grate and frame may be hot dip galvanized after fabrication in accordance with the Standard Specifications.
 All structural steel shall comply with ASTM A-36, A-242, or A-441.
 Curb and Gutter sections shall be shaped as shown where required by the installation of curb inlets. This work shall be subsidiary to other bid items.
 See sheet entitled "Reinforcing Steel for Inlets and Manholes" for details and quantities.



SECTION E-E
 Reinforcing steel not shown.

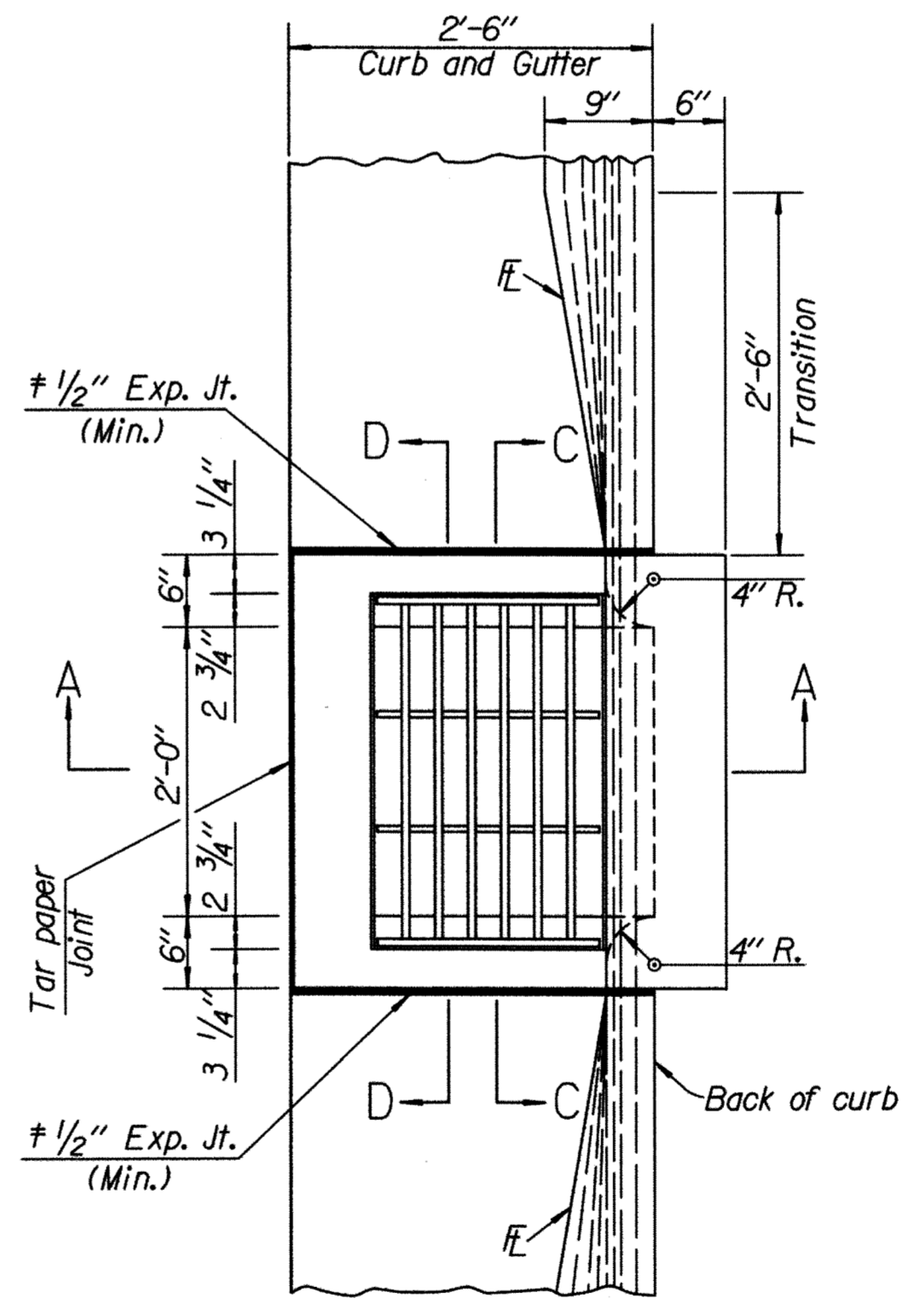


GRATE AND FRAME

Welded Structural Steel Grate & Frame
 Weight = 152 lbs. Each (With Cross-bars)

Note: To prevent grate from rocking on bearing angles, machine finish surfaces indicated thus $\frac{1}{4}$ ".

On all interstate projects and rural area projects, the two 1/2" ϕ x 1'-6 1/2" bars are to be omitted. The weight of the grate and frame without these bars is 150 lbs. of structural steel.



PLAN

Plotted: 22-JUL-2010 18:24
 Drawn By: marks
 File: rd642.dgn (rd642)

Inlet to be a precast Structure. Structure to be manufactured to allow top of structure to be removed and replaced with a 2'x2' Area Inlet top with no apron.



NO.	DATE	REVISIONS	BY	APP'D
9	1-28-05	Changed Class to Grade concrete	S.W.K.	J.O.B.
8	3-2-99	Added hot dip galvanized option.	R.J.S.	J.O.B.
7	12-27-93	Delete cast iron notes	R.J.S.	J.O.B.
6	4-10-90	Revised paint note	R.J.S.	J.O.B.

KANSAS DEPARTMENT OF TRANSPORTATION

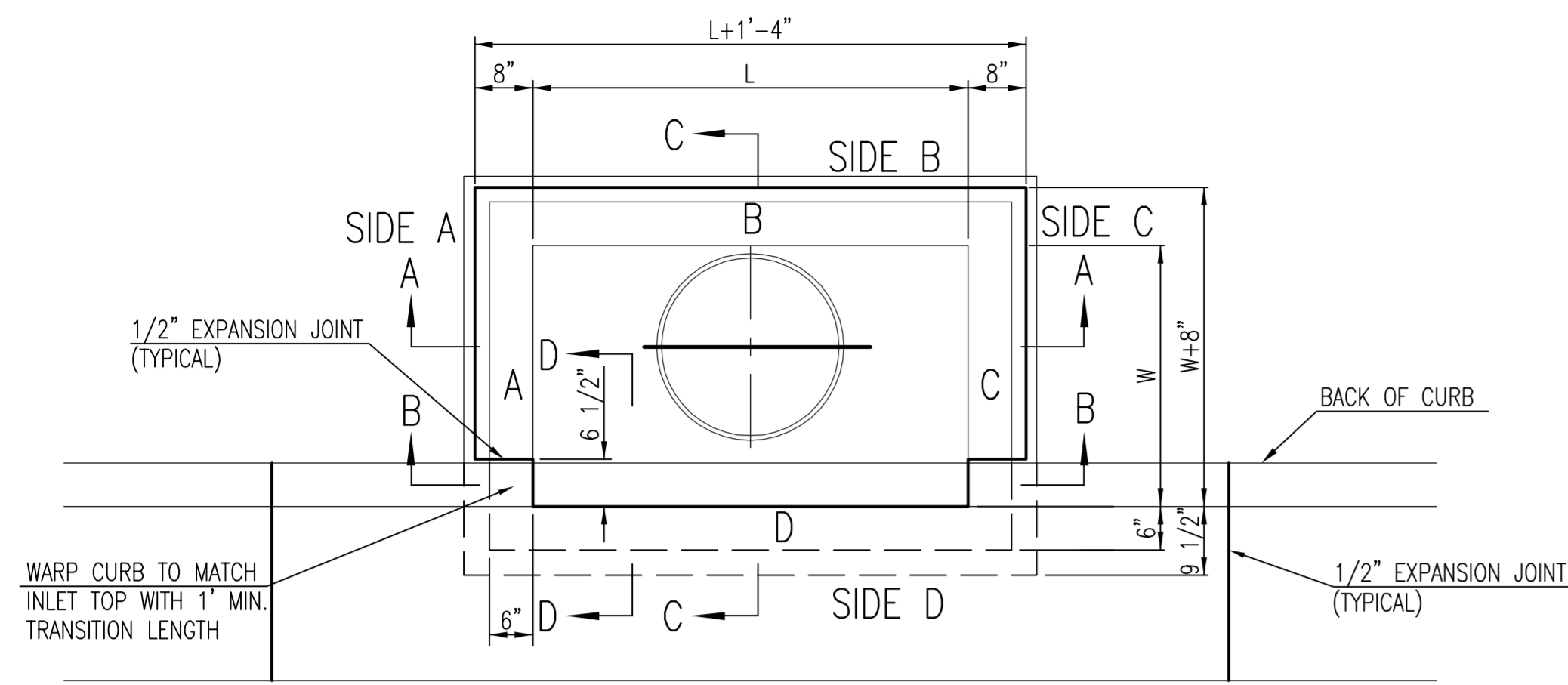
TYPE 10 CURB INLET

RD642

FHWA APPROVAL	06-10-05	APP'D. James O. Brewer
DESIGNED	DETAILED	QUANTITIES
DESIGN CK.	DETAIL CK.	QUAN. CK.
		TRACE CK. R.J.S.

KDOT Graphics Certified 07-22-2010

Greene Vision (Huntington Place)
 Type 10 Area Inlet
 Storm Water Drain Improvements
 Baughman Company, P.A.
 315 E. 10th St., Topeka, KS 66606
 781-863-1111
 www.baughmanpa.com



TOP VIEW

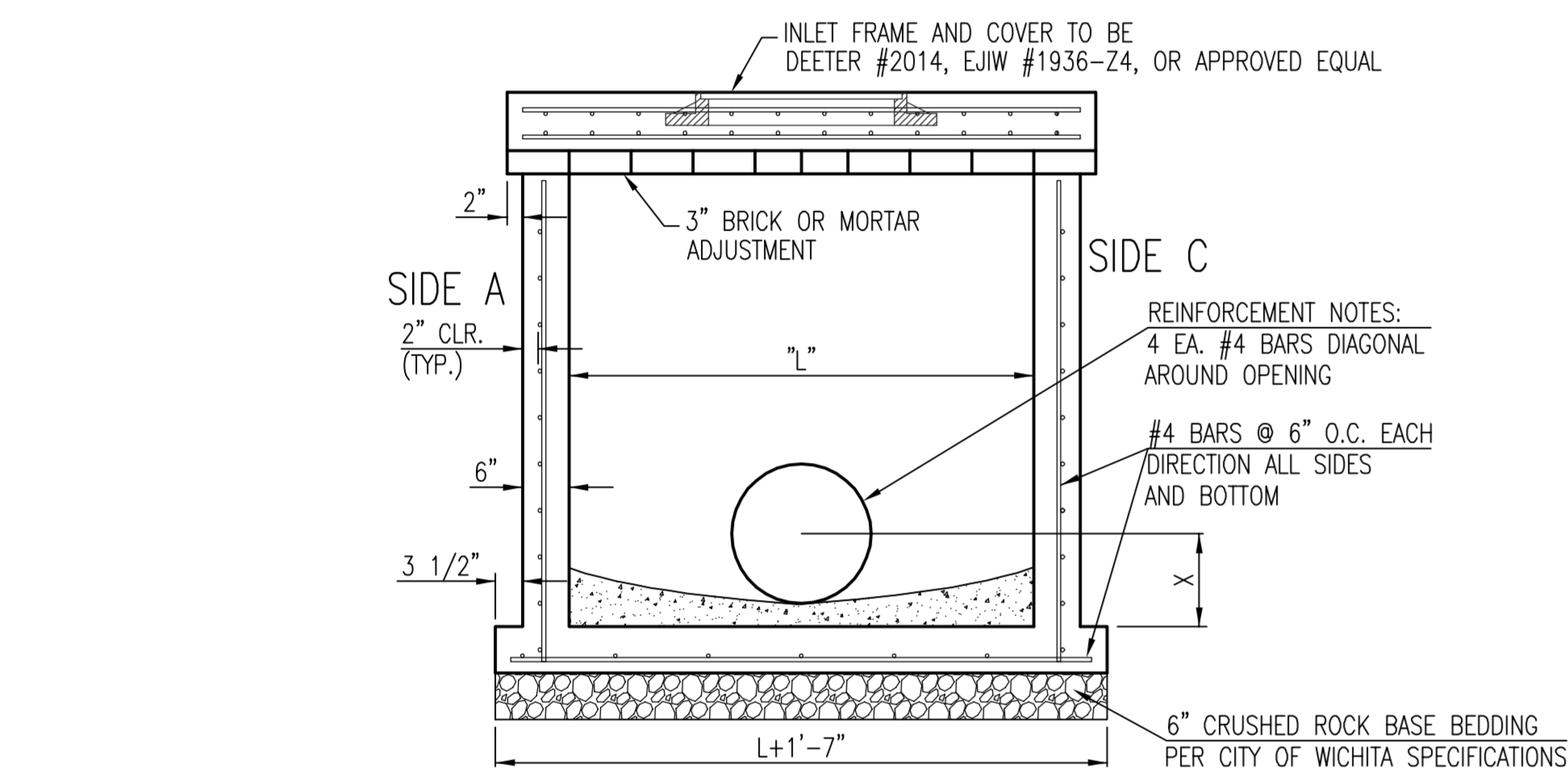
BAR SCHEDULE		
INLET OPENING	B1 BARS	SPACING
5'-0"	#4	4"
10'-0"	#6	3.5"

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"

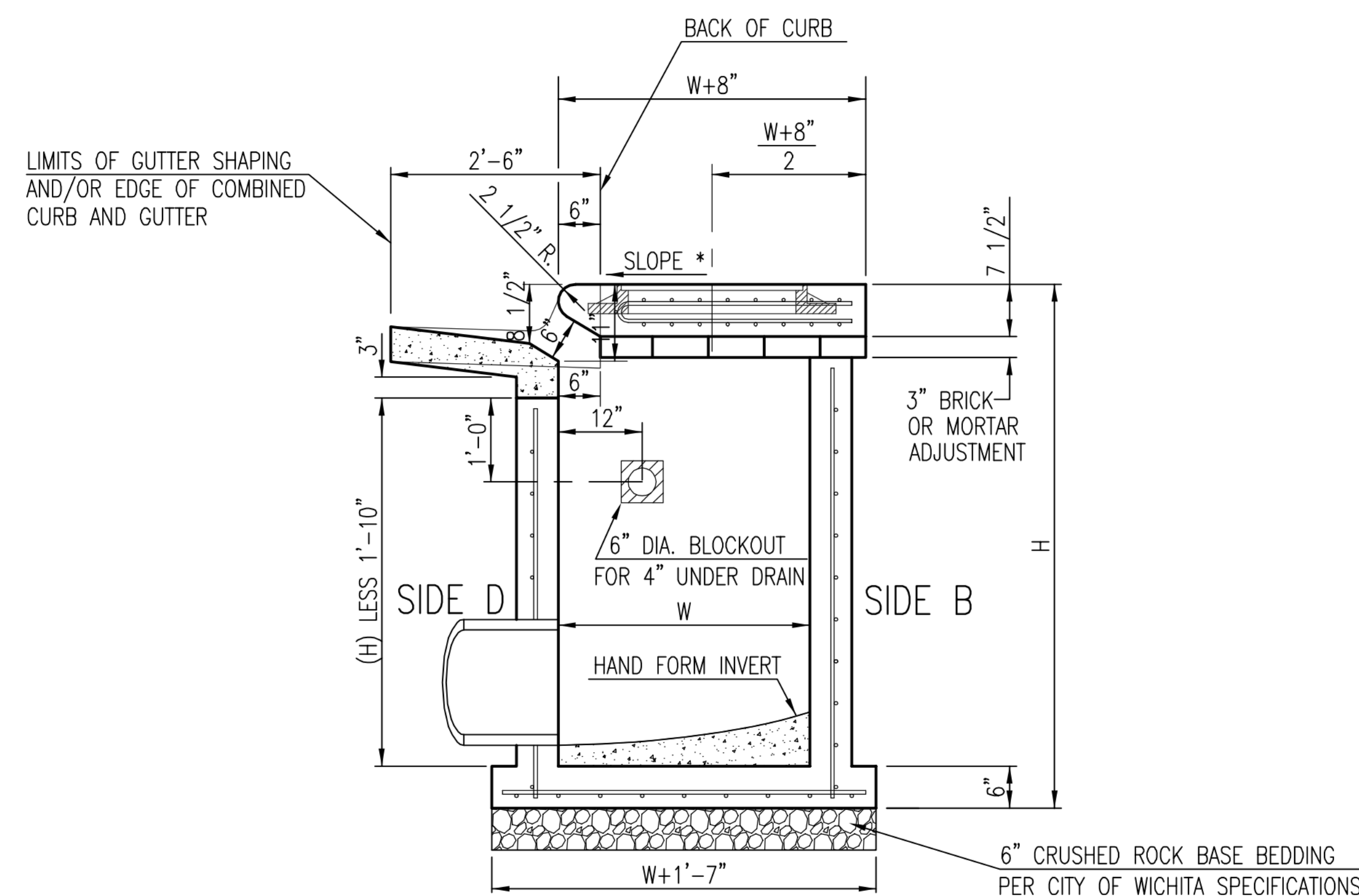
** FOR PIPES PERPENDICULAR TO INLET WALL

GENERAL NOTES

1. 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.
2. 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.
3. 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.
4. THE ENDS OF ALL PIPES INSTALLED IN INLETS SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE INLET WALL.
5. INLET FRAME AND COVER TO BE DEETER #2014, EJIW #1936 24, OR APPROVED EQUAL, SEE SW-303.
6. 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.

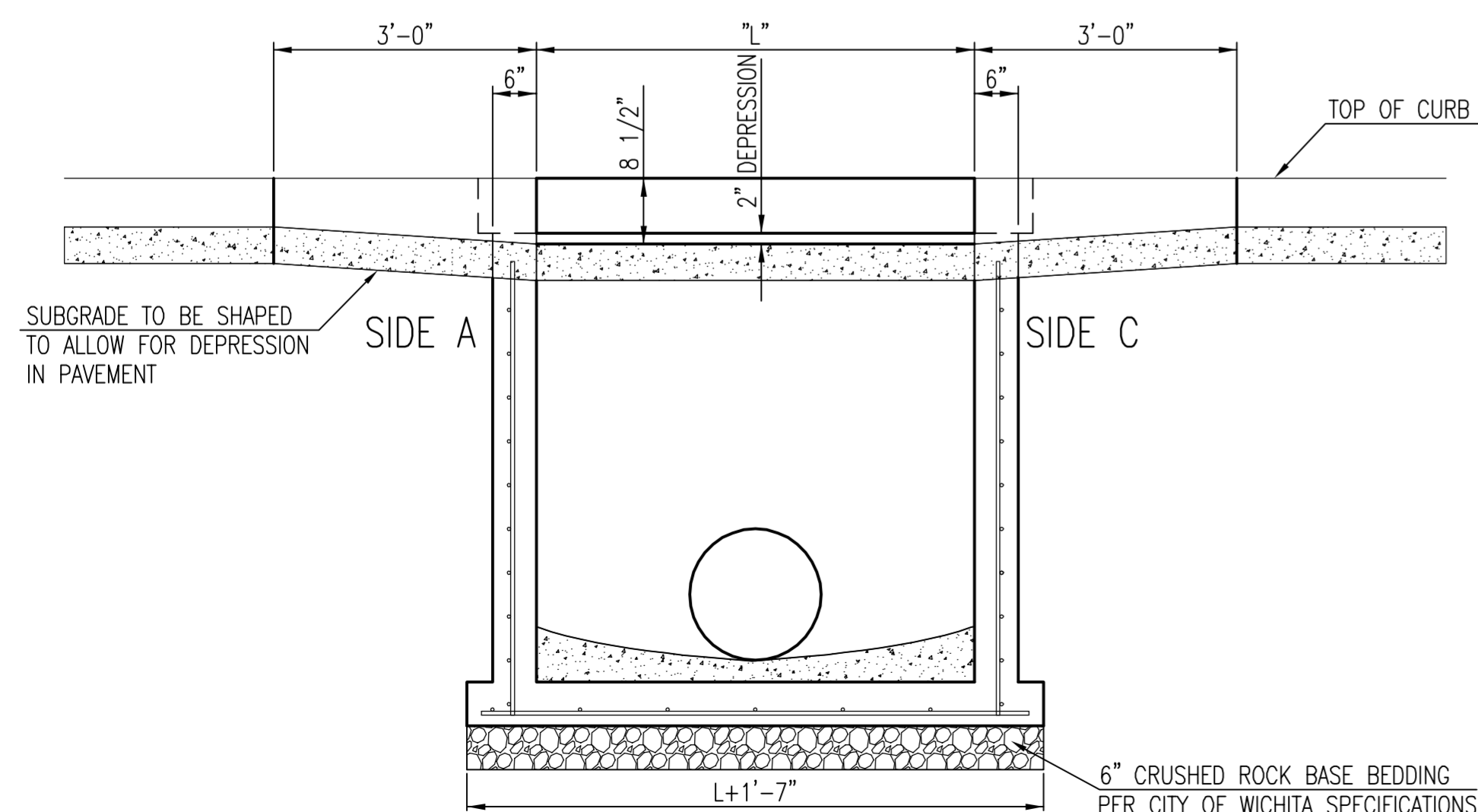
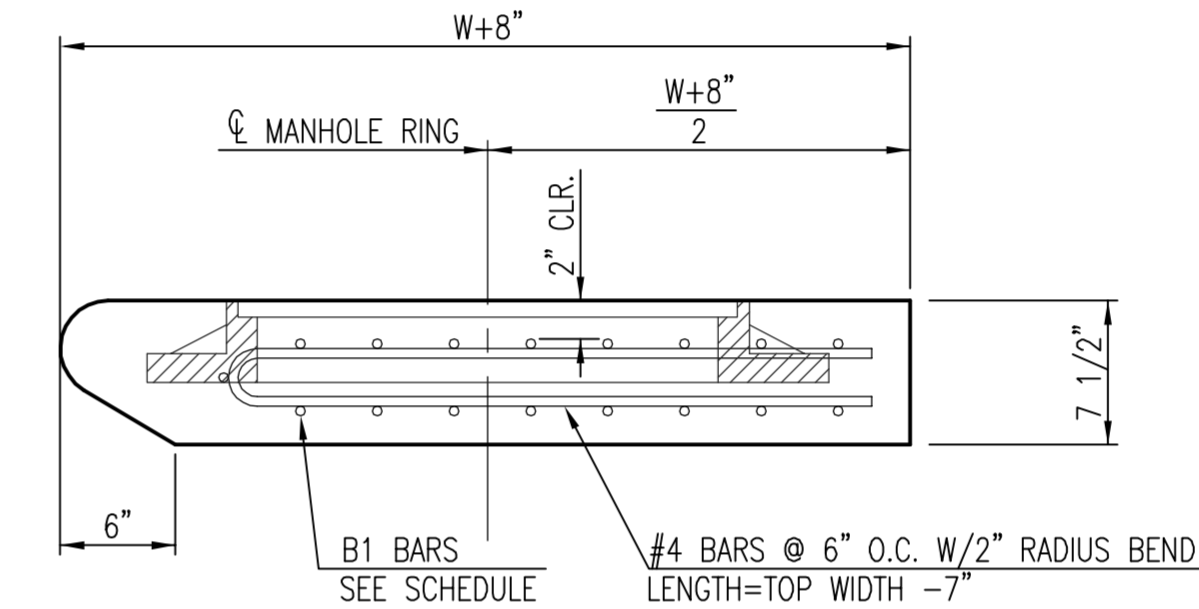


SECTION "A-A"

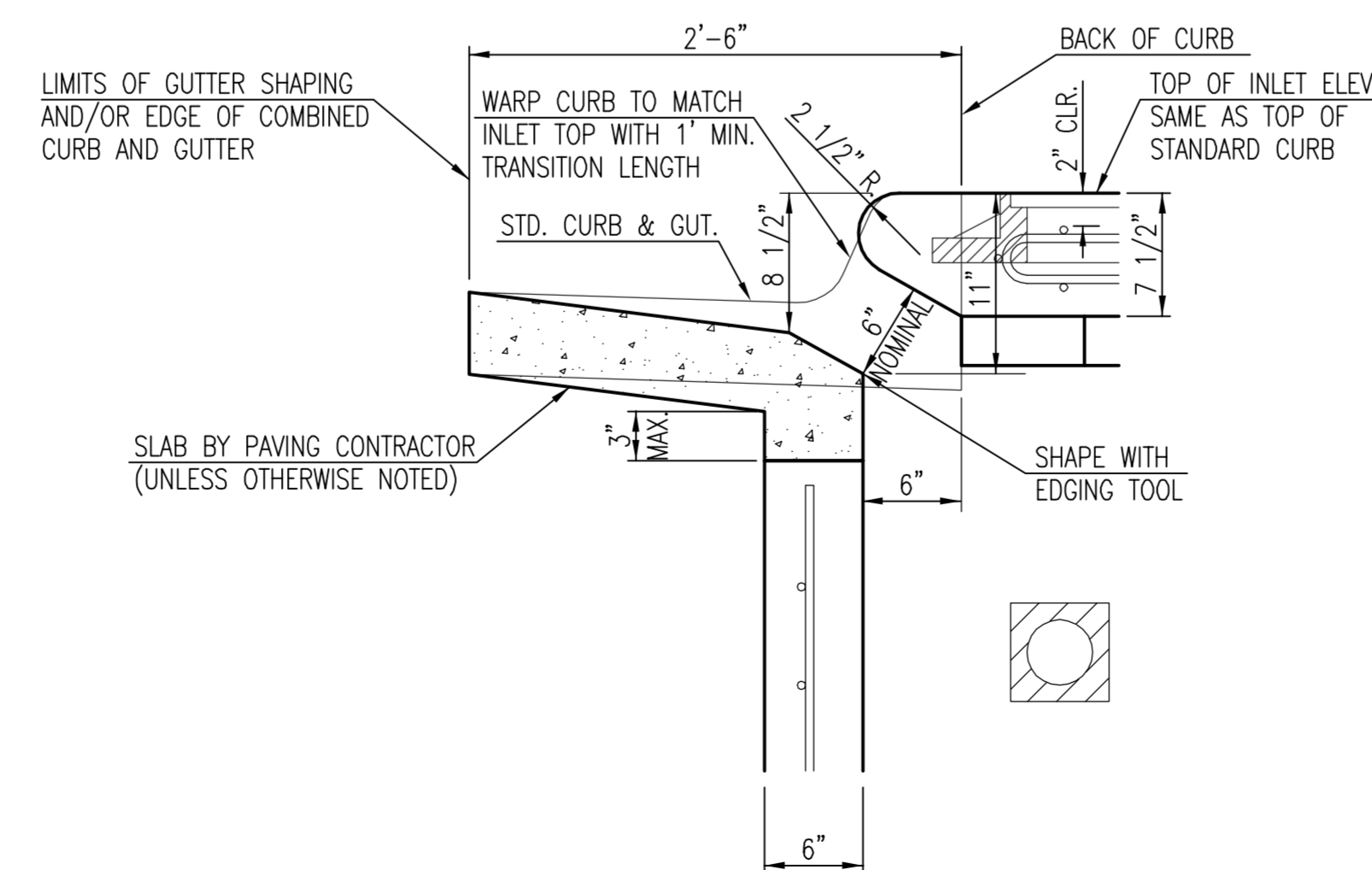


SECTION "C-C"

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



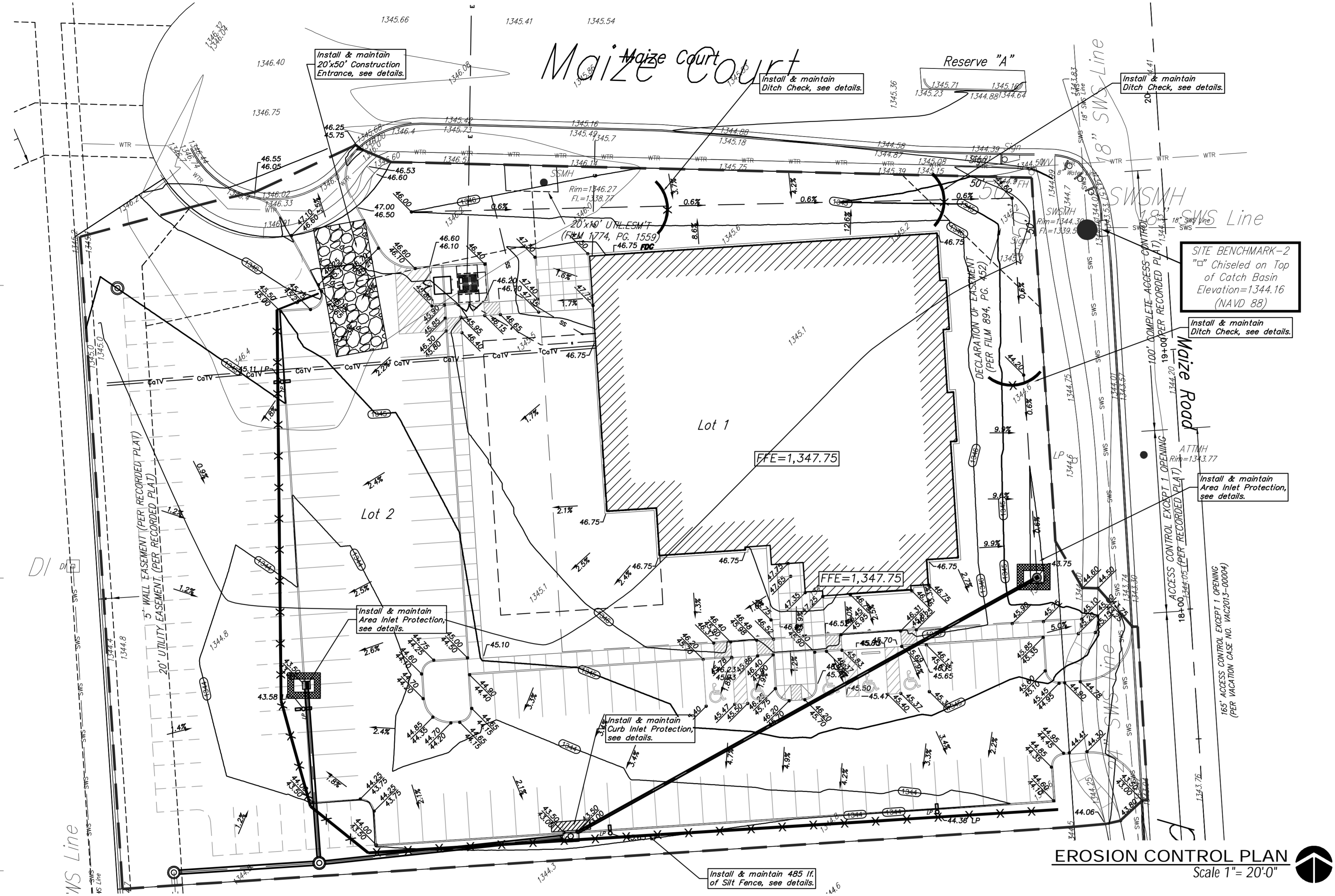
SECTION "B-B"



SECTION "D-D"



STANDARD TYPE 1 CURB INLET 5'-0" OR 10'-0" OPENING		
CITY ENGINEER Gary Janzen, P.E., City Engineer		
PROJECT NUMBER	OCA NUMBER	DATE 4/2012
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		DESIGN Staff DRAWN Staff SHEET 5 of 8



EROSION CONTROL NOTES

- 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 #1).
- All exposed areas shall be seeded as specified within 21 days of final GRADING. Seed is to include straw mulch, crimped in place per industry standards.
- Should construction stop for longer than 14 days, the site shall be seeded as specified.
- Maintain erosion control measures after each rain and at least once a week.
- This plan shall not be considered all inclusive as the contractor shall take all necessary precautions to prevent soil sediment from leaving the site.
- Contractor shall comply with all state and local ordinances that apply.
- Additional erosion and sediment control measures will be installed if deemed necessary by on site inspection.
- Land disturbing activities shall not commence until approval to do so has been received by governing authorities.
- If installation of storm drainage system should be interrupted by weather or nightfall, the pipe ends shall be covered with filter fabric.
- See Landscape Plan for ground treatments in all disturbed areas beyond impervious surfaces.
- 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.
- ANY substitutions for the sediment control devices shown, must be approved by the Landscape Architect and/or Engineer prior to any uses on site.
- 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.

EROSION CONTROL LEGEND

- = Silt Fence
- = Curb Inlet Sediment Barrier
- = Area Inlet Sediment Barrier
- = Area Inlet Sediment Barrier

BENCHMARK

Sq. Cut Chiseled on top catch basin.
Elev. = 1344.18 (NAVD 88)

LEGAL DESCRIPTION

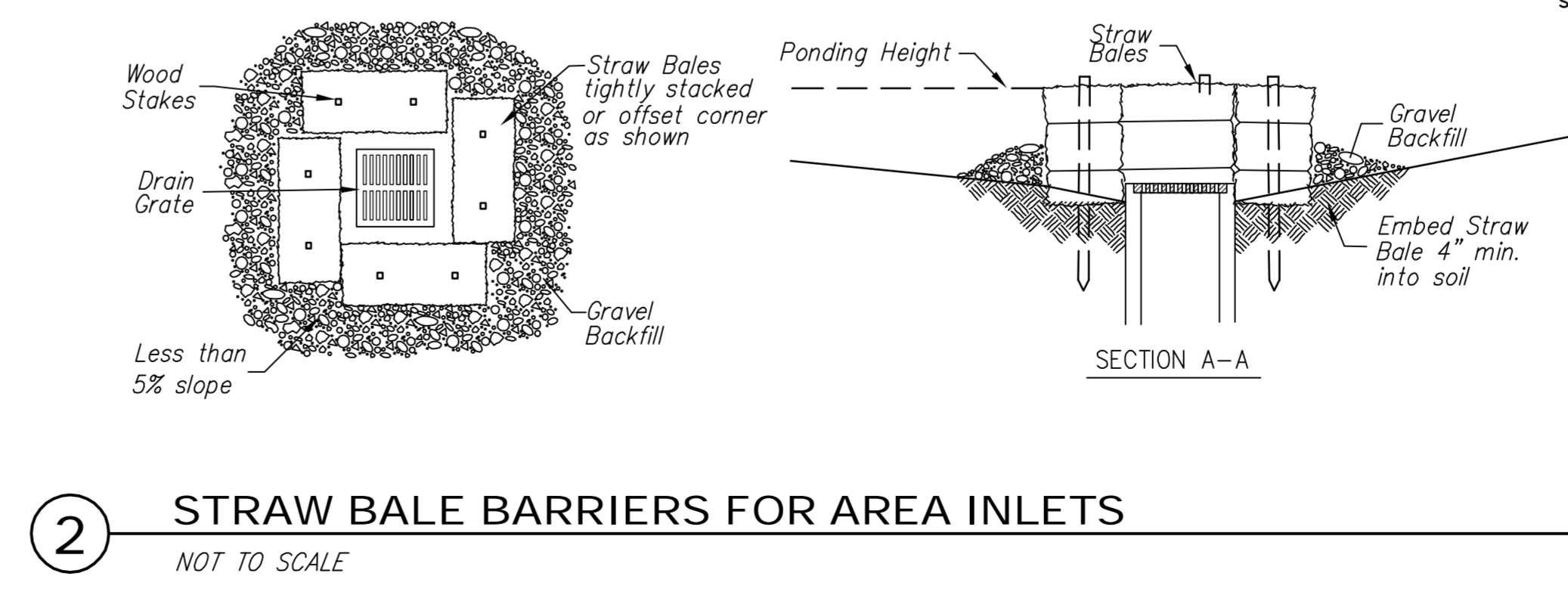
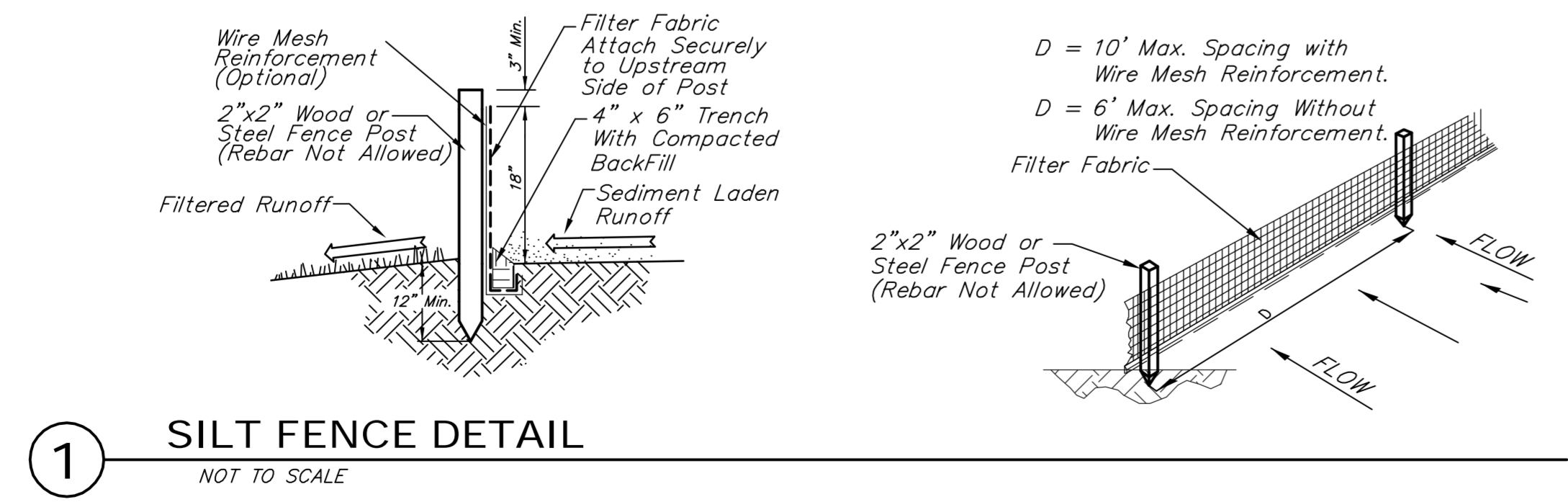
All of Lot 1, Huntington Park Addition, Wichita, Sedgewick County, Kansas 100217023 WITH that part of Lot 2, Huntington Park Addition, Wichita, Sedgewick County, Kansas described as beginning at the southeast corner of said Lot 1, said point also being a common lot corner with said Lot 2; thence S03°14'55"E along the easterly line of said Lot 2, 80.00 feet; thence S86°15'05"W, 368.50 feet to a point on the westerly line of said Lot 2; thence N03°14'45"W, along the westerly line of said Lot 2, 251.33 feet to a deflection corner in the westerly line of said Lot 2; thence N06°14'12"E along the westerly line of said Lot 2, 41.14 feet to a point on the northerly line of said Lot 2, said line being a curve having a 50.00 foot radius; thence southeasterly, westerly, and northeasterly along said curve, also being the northerly line of said Lot 2, for an arc distance of 106.17 feet to a deflection corner in the northerly line of said Lot 2; thence S88°13'53"E along the northerly line of said Lot 2, 53.63 feet to a common lot corner of said Lots 1 and 2; thence S03°14'45"E along the common lot line of said Lots 1 and 2, 187.42 feet to a common lot corner of said Lots 1 and 2; thence N06°15'05"E along the common lot line of said Lots 1 and 2, 191.99 feet to the point of beginning.

SITE INFORMATION

Total Area:	±95,562 sq. ft. (2.19 acres)
Disturbed Area:	±95,562 sq. ft. (2.19 acres)
Impervious Area:	±48,371 sq. ft. (1.11 acres)
Future Imper. Area:	±18,313 sq. ft. (0.42 acres)
Total Impervious Area:	±66,684 sq. ft. (1.53 acres)
Building Area:	16,390 sq. ft.
Future Building Area:	5,200 sq. ft.
Parking Provided:	Spaces, including - Accessible Stalls

FOR REFERENCE ONLY
SEE APPROVED FINAL SITE
PLANS FOR CONSTRUCTION

GRENE VISION GROUP - EYE CLINIC
HUNTINGTON PLAZA
1277 NORTH MAIZE ROAD, WICHITA, KANSAS



PROJECT NO.	11-001
ISSUE:	DATE:
REVIEW:	16 JUL 13
SITE PERMIT:	23 JUL 13

EROSION CONTROL PLAN C23.0

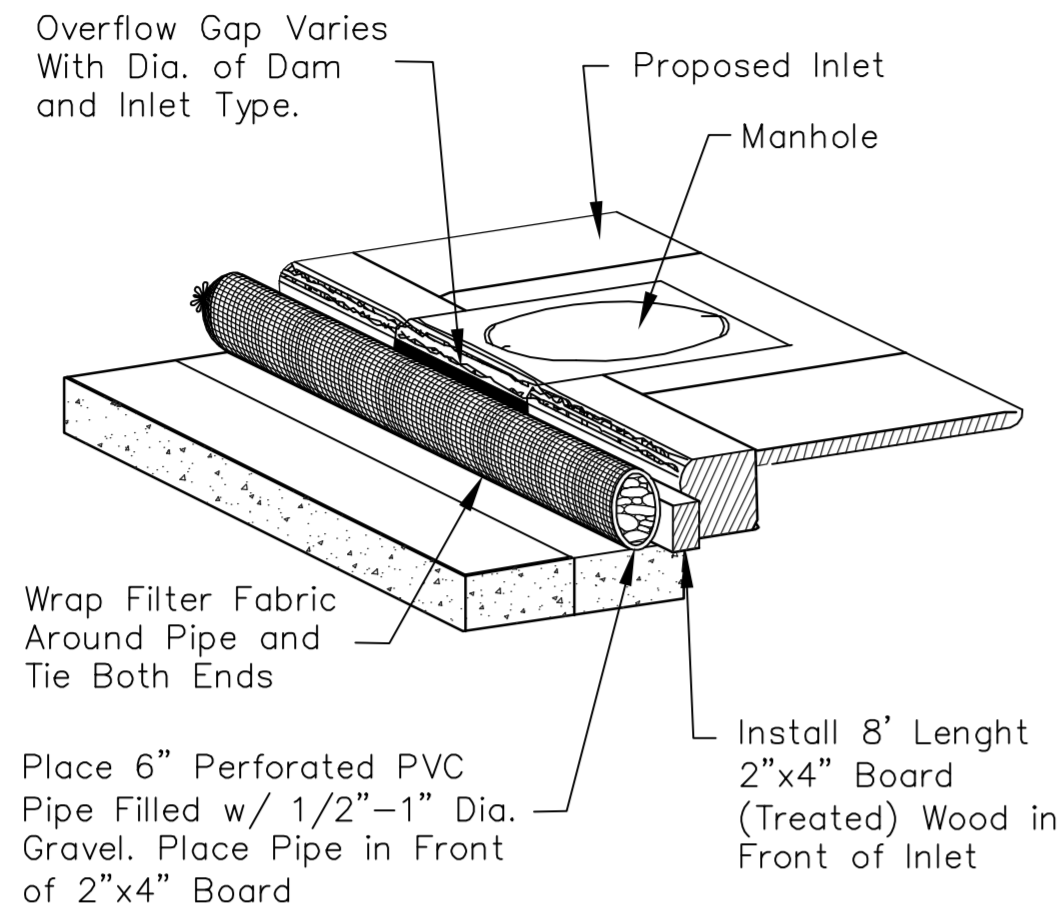
Baughman
ENGINEERING | SURVEYING | PLANNING
LANDSCAPE ARCHITECTURE

Baughman Company, P.A.
315 E. 11th St., Wichita, KS 67211
P: 316.263.7271 F: 316.262.0149
E: Project@Grene Vision Site Plan
(13.06.14) Engineering/CV PRD/Bag
S&P/CH/AMM/CJ/MS/NO/13.06.14

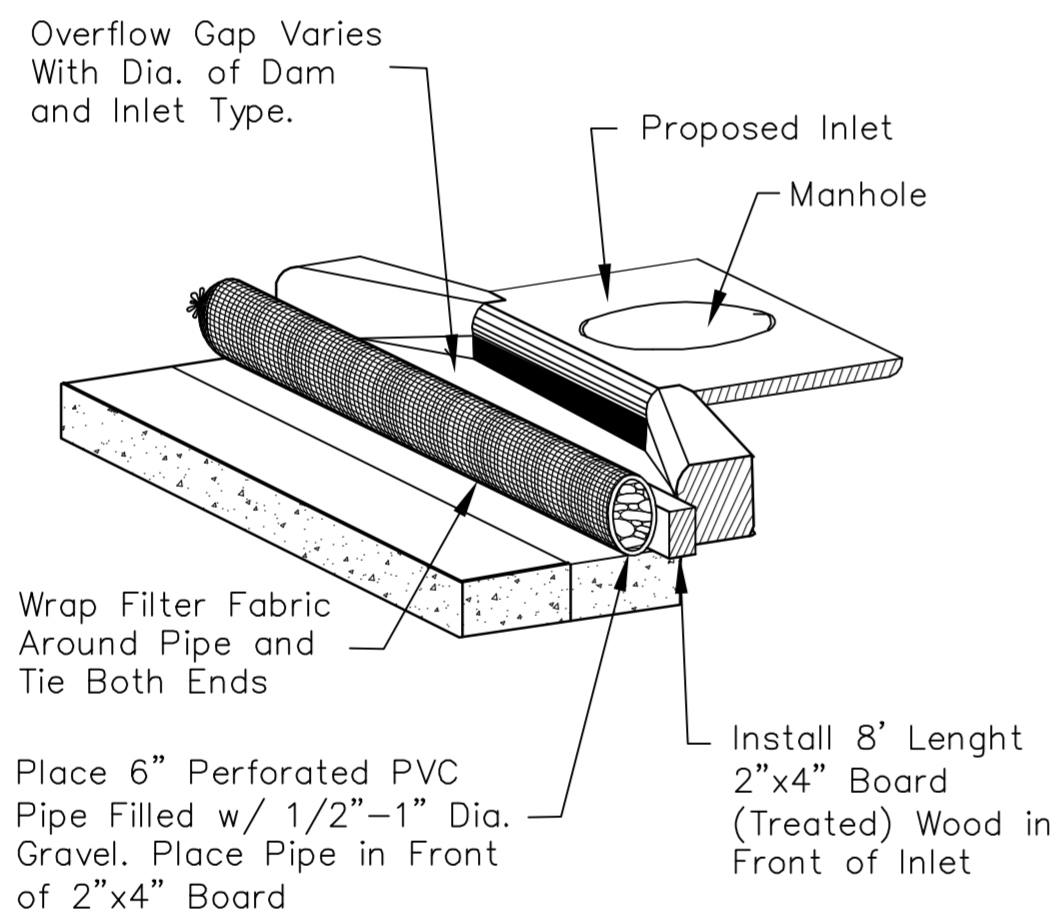
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S&P/CH/AMM/CJ/MS/NO/13.06.14

Grene Vision (Huntington Place)
Reference
Erosion Control Plan
Storm Water Drain Improvements

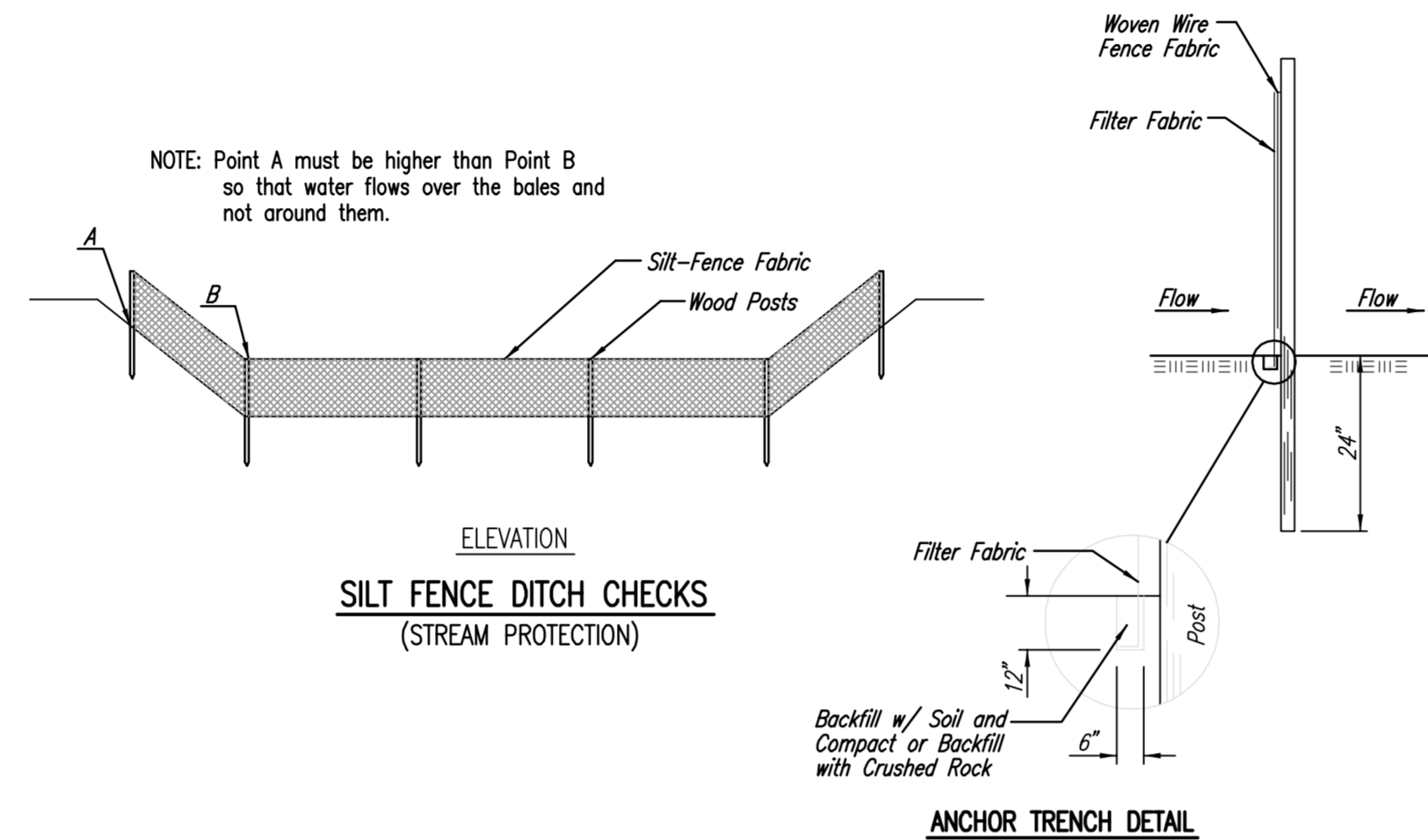
SHEET
OF
7
8



3 TYPE 1 INLET PROTECTION
NOT TO SCALE



4 TYPE 1A INLET PROTECTION
NOT TO SCALE



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. 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 check:

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 downstream side of the trench. Place the edge of the fabric in the trench starting at the top upstream edge of the trench. Line two sides of the trench with the fabric as shown in 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 upstream side of the trench to clear an area for driving in the posts. Just downstream 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.

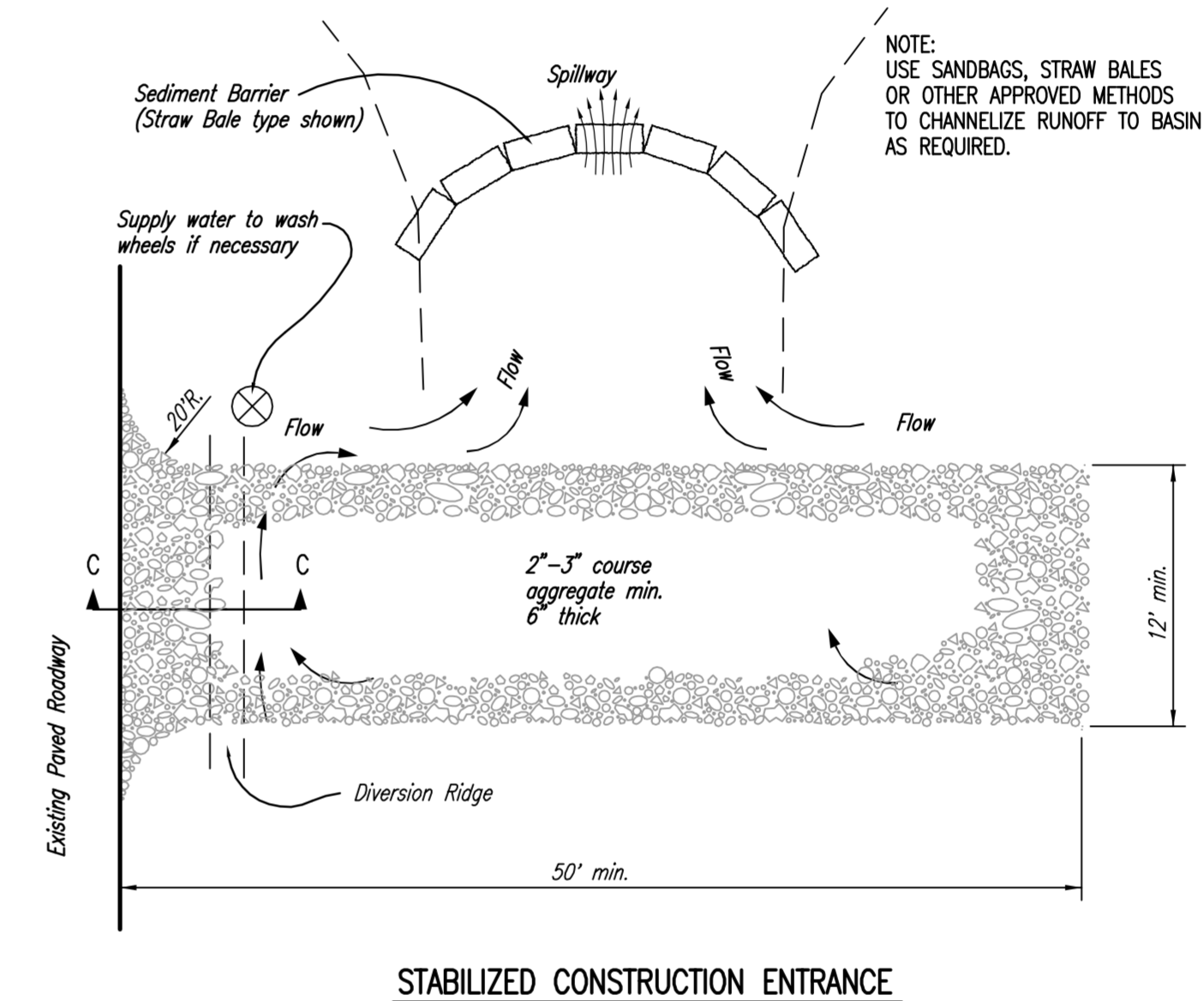
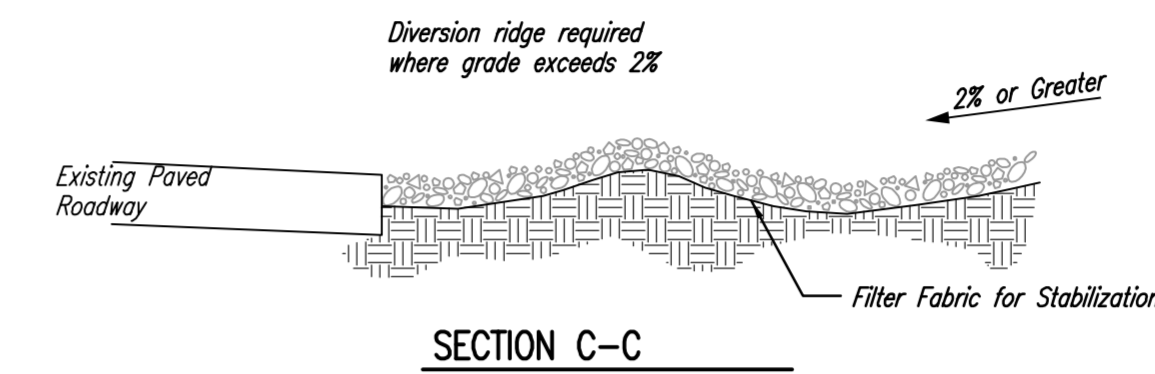
List of common placement/installation mistakes to avoid:

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 upstream 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?



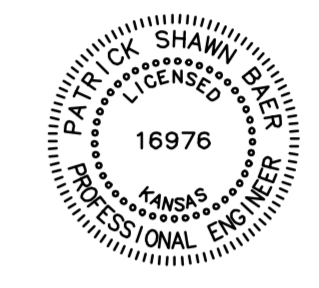
NOTES:

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

6 CONSTRUCTION ENTRANCE DETAIL
NOT TO SCALE



Old Town Center
Tel. 316.263.4300
Fax. 316.263.4301
800 E. First, Suite 140
Wichita, Kansas 67202
SHELDONARCH.COM
INSPIRED SPACE



GRENE VISION GROUP - EYE CLINIC
HUNTINGTON PLAZA
1277 NORTH MAIZE ROAD, WICHITA, KANSAS

PROJECT NO.	11-001
ISSUE	DATE
REVIEW	16 JUL 13
SITE PERMIT	23 JUL 13

EROSION CONTROL DETAILS
C23.1



Baughman Company, P.A.
315 Ellis St. Wichita, KS 67211
P: 316.263.7271 F: 316.262.0149
E: info@baughman.com
13.06.E9.14(Engineering) CV PRD.dwg
BAUGHMAN, JOB NO. 1306.E9.14

Baughman Company, P.A.
315 Ellis St. Wichita, KS 67211 F: 316.262.0149
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ENGINEERING | SURVEYING | PLANNING
LANDSCAPE ARCHITECTURE

Grene Vision (Huntington Place)
Reference
BMP Details
Storm Water Drain Improvements

EXTENSIONS
SHEET
OF
8
8

**FOR REFERENCE ONLY
SEE APPROVED FINAL SITE
PLANS FOR CONSTRUCTION**