

GENERAL NOTES

- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY REGULATIONS. ALL CONSTRUCTION SHALL BE COMPLETED FOLLOWING CURRENT CITY STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
- CONTRACTOR WILL BE REQUIRED TO PROVIDE NOTICE TO UTILITY COMPANIES A MINIMUM OF SEVENTY-TWO (72) HOURS PRIOR TO ANY EXCAVATION, AS FOLLOWS:
KANSAS ONE-CALL 687-2470
THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF AN EMERGENCY:
AT&T 1-800-246-8464
BLACK HILLS ENERGY 1-800-694-8989
CITY OF WICHITA WATER 1-316-268-4555
CITY OF WICHITA SEWER 1-316-268-4073
CITY OF WICHITA STORMWATER 1-316-268-4090
CITY OF WICHITA TRAFFIC 1-316-268-4034
COX COMMUNICATIONS 1-888-249-3530
KANSAS GAS SERVICE 1-888-482-4950
WESTAR ENERGY 1-800-544-4857
- UTILITY SERVICE LINES, POLES, ETC. ARE TO BE ADJUSTED AS NECESSARY BY OTHERS PRIOR TO CONSTRUCTION UNLESS THE PLANS SPECIFICALLY CALL FOR THEIR ADJUSTMENT BY THE CONTRACTOR OR UNLESS THE PLANS SPECIFICALLY IDENTIFY A UTILITY TO BE ADJUSTED BY ITS OWNER DURING CONSTRUCTION. EXISTING UTILITIES AND THEIR LOCATION, AS SHOWN ON THE PLANS, REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND EXISTING UTILITIES WITHIN THE RIGHT-OF-WAY WHICH DO NOT CONFLICT WITH PROPOSED CONSTRUCTION.
- RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES AND EXCESS EXCAVATION WHICH IS TO BE WASTED SHALL BE DISPOSED OF ON SITES TO BE PROVIDED BY THE CONTRACTOR. THESE SITES SHALL BE APPROVED BY THE ENGINEER AS TO SUITABILITY, APPEARANCE AND SITE LOCATION. LOCATIONS, IN THE OPINION OF THE ENGINEER, THAT WILL LEAVE AN UNSIGHTLY APPEARANCE WILL NOT BE APPROVED. ALL DISPOSAL SITES MUST BE APPROVED BY THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT. MATERIAL EITHER STOCKPILED OR DISPOSED OF IN A FLOOD PLAIN WILL REQUIRE A KANSAS STATE BOARD OF AGRICULTURE PERMIT. ANY MATERIAL DUMPED IN WATERS OF THE UNITED STATES OR WETLANDS IS SUBJECT TO U.S. CORPS OF ENGINEERS PERMITTING REGULATIONS. ANY MATERIAL BURIED OR STOCKPILED BEYOND APPROVED CONSTRUCTION LIMITS WILL REQUIRE ADDITIONAL ARCHAEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATION.
- TREES AND SHRUBS IN PUBLIC RIGHT-OF-WAY WHICH ARE IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE REMOVED BY THE CONTRACTOR WITH THE ENGINEER'S APPROVAL. TREES AND SHRUBS WHICH ARE NOT IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE SAVED AND PROTECTED FROM DAMAGE.
- THE CONTRACTOR SHALL GIVE ALL PROPERTY OWNERS AND/OR TENANTS OF DEVELOPED PROPERTY ABUTTING THE CONSTRUCTION OF THIS PROJECT A MINIMUM OF TEN (10) DAYS NOTICE PRIOR TO START OF CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR WILL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.
- THE WATER DISTRIBUTION DIVISION SHALL FIELD LOCATE WATER VALVES ONE TIME DURING CONSTRUCTION WHEN REQUESTED BY THE CONTRACTOR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PRESERVE SUCH FIELD LOCATIONS DURING THE CONSTRUCTION PROCESS. WATER VALVES, VALVE BOXES OR FIRE HYDRANTS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY CONTRACTOR AT HIS OWN EXPENSE. VALVE BOXES AND WATER METERS WITHIN THE PROJECT LIMITS SHALL BE ADJUSTED TO MATCH FIELD GRADES.
- THE CONTRACTOR SHALL NOTIFY THE CONSULTANT ENGINEER AND TOM MASON WITH THE CITY AT 316-268-4574 WITH THE ANTICIPATED CONSTRUCTION START DATE AND NOTIFY THEM OF PROJECT COMPLETION. STAKING AND INSPECTION FOR THIS PROJECT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- IF TRAFFIC WILL BE IMPACTED BY CONSTRUCTION, A TRAFFIC CONTROL PLAN MUST BE SUBMITTED AND APPROVED BY THE CITY TRAFFIC ENGINEER, BRIAN COON AT TRAFFIC@WICHITA.GOV BEFORE CONSTRUCTION CAN BEGIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL MEASURES TO FACILITATE CONSTRUCTION. ALL CONSTRUCTION ZONE MARKINGS AND SIGNAGE SHALL CONFORM TO THE LATEST VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AS PUBLISHED BY THE US DEPT. OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION. ALL COSTS ASSOCIATED WITH CONSTRUCTION MARKINGS AND SIGNAGE SHALL BE THE CONTRACTORS RESPONSIBILITY.
- ALL ELEVATIONS SHOWN ARE NAVD 88.
- ALL AREAS DISTURBED DURING CONSTRUCTION THAT WILL NOT BE UNDER PROPOSED PAVEMENT SHALL BE RESTORED TO MATCH EXISTING CONDITIONS.
- A PORTION OF EXCESS EXCAVATED MATERIAL SHALL BE MOUNDING AROUND MANHOLES WHICH EXTEND MORE THAN ONE (1) FOOT ABOVE THE EXISTING GROUND. SUCH MOUNDING SHALL BE CONSTRUCTED WITH NEW DEVELOPMENT AS A SIX (6) FOOT DIAMETER FLAT TOP WITH 4 TO 1 SIDE SLOPES DOWN TO THE ORIGINAL GROUND. THE ELEVATION OF THE FLAT TOP OF THE MOUND SHALL BE 0.4 FOOT BELOW THE TOP OF THE MANHOLE.
- GEOTECHNICAL REPORT AVAILABLE UPON REQUEST.
- CONTRACTOR SHALL LIMIT THE EXTENT OF TRENCH OPEN OVERNIGHT AND WEEKENDS TO LESS THAN 50 FEET.
- CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM ALL MANHOLE COVERS.
- CITY MAINTENANCE OF STORM SEWER ENDS AT RIGHT-OF-WAY OR EASEMENT LINE. SYSTEM TO BE PRIVATELY OWNED AND MAINTAINED.
- ANY SIDEWALK, DRIVE APPROACH, OR STREET PAVEMENT REMOVED TO CONSTRUCT PROJECT MUST HAVE A PAVEMENT CUT PERMIT AND BE REPLACED BY THE CITY CONTRACTOR. PERMITS CAN BE OBTAINED BY CALLING 316-268-4501 OR 316-268-4480.
- THE INSPECTING FIRM SHALL SUBMIT TO THE CITY STORMWATER MAINTENANCE DIVISION A DIGITAL COPY OF THE CITY INSPECTION OF THE CONDUITS AND STRUCTURES FOLLOWING CONSTRUCTION. THE DIGITAL FILE FORMATION SHALL BE COMPATIBLE WITH THE CITY INPUT TEMPLATE. A COPY OF THE TEMPLATE IS AVAILABLE UPON REQUEST AT 316-268-4090.
- THE CONTRACTOR SHALL INSTALL AND/OR MAINTAIN EROSION CONTROL METHODS AS SPECIFIED. THE GENERAL LOCATION OF THE REQUIRED EROSION CONTROL IS ILLUSTRATED ON THE EROSION CONTROL PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE EROSION CONTROL SHOWN THROUGHOUT THE COMPLETION OF THIS PROJECT. INSTALLATION OF THESE BMP'S DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF ABATING SOIL EROSION.

STORM SEWER IMPROVEMENTS

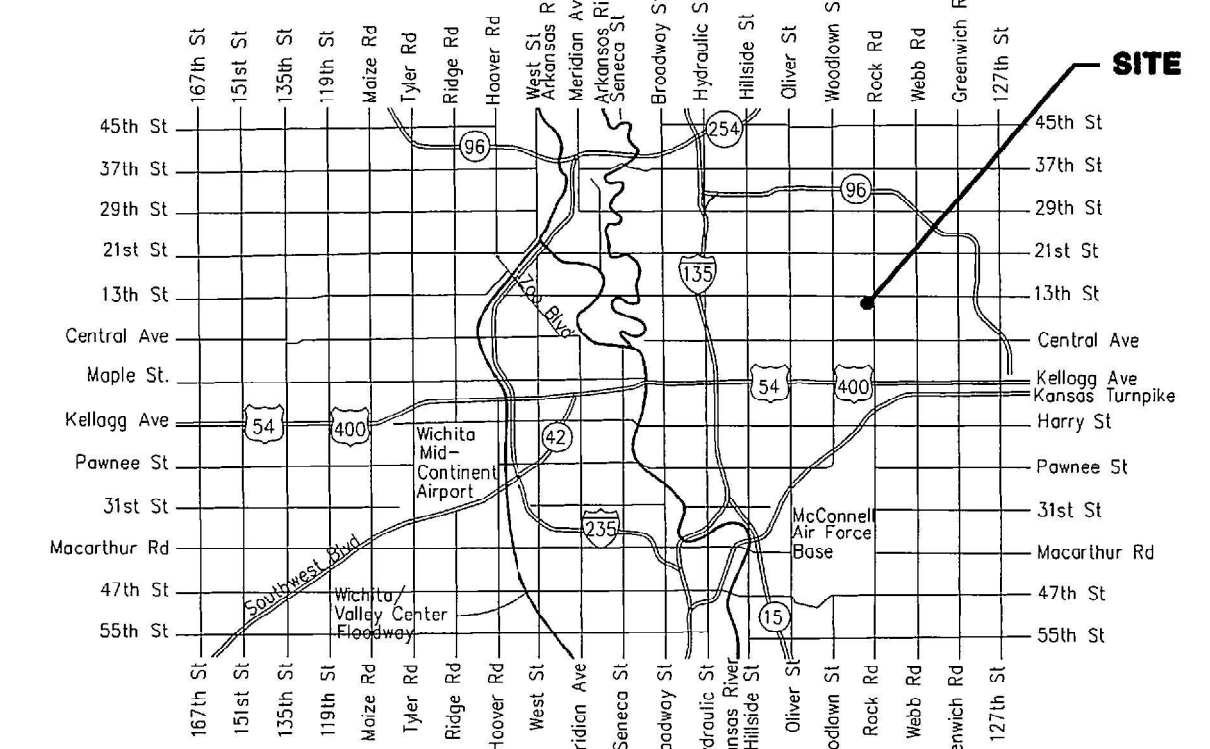
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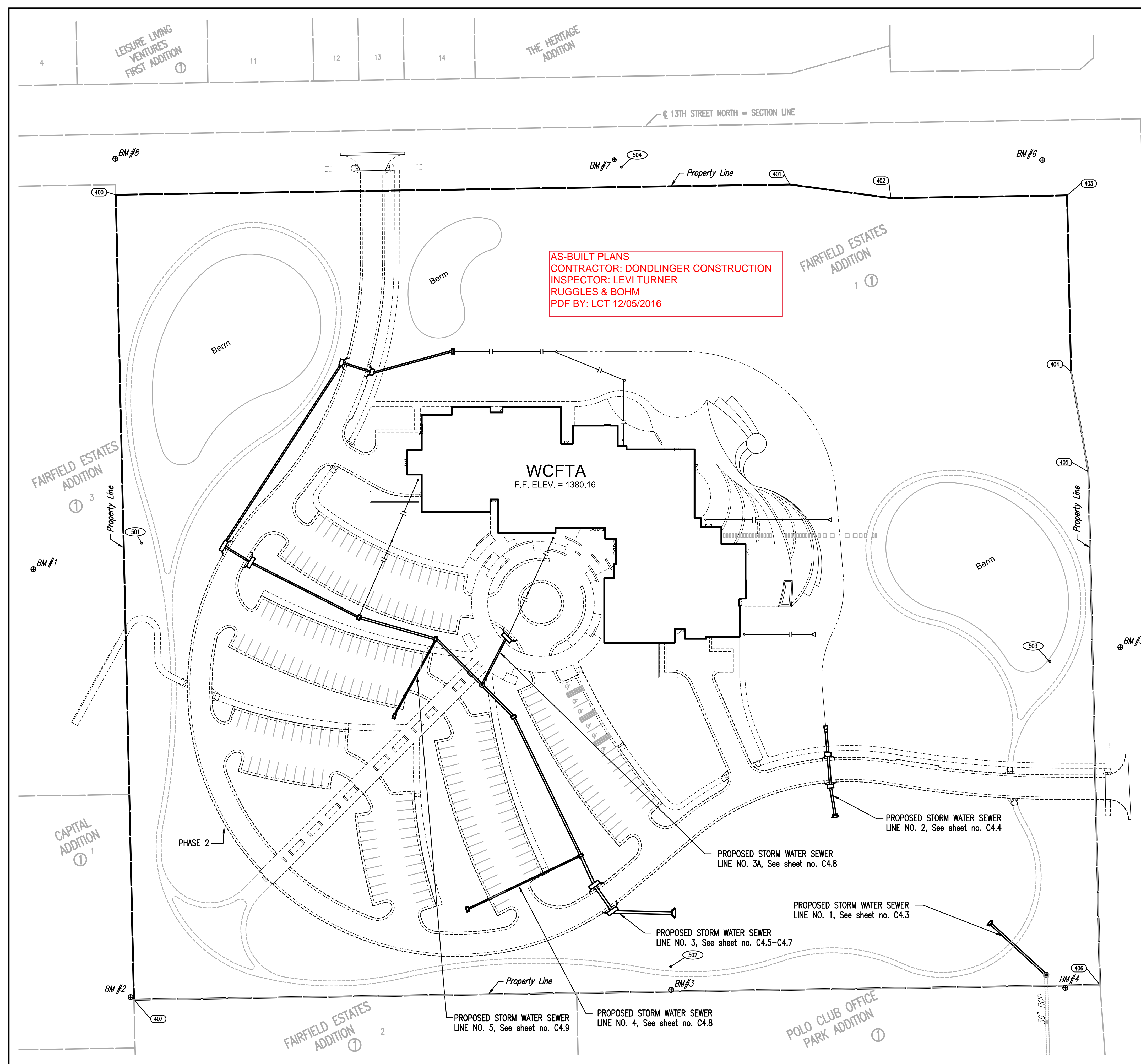
THE WICHITA CENTER FOR THE ARTS

1307 N. ROCK ROAD, WICHITA, KANSAS

CITY OF WICHITA, KANSAS

Gary Janzen, P.E. City Engineer
Project Number
0401 PPD (607861)





AS-BUILT PLANS
CONTRACTOR: DONDLINGER CONSTRUCTION
INSPECTOR: LEVI TURNER
RUGGLES & BOHM
PDF BY: LCT 12/05/2016

NE COR. NE 1/4
SEC 18, T27S, R2E

SCALE: 1" = 50'

PROPERTY COORDINATE LIST		
POINT	NORTHING	EASTING
400	1,694,029.5478	1,674,445.8674
401	1,694,039.7537	1,675,115.8997
402	1,694,026.2785	1,675,216.1178
403	1,694,028.9438	1,675,391.0976
404	1,693,853.9882	1,675,395.0429
405	1,693,754.3505	1,675,412.2936
406	1,693,244.3702	1,675,423.7939
407	1,693,229.7492	1,674,463.9053

400 = COORDINATE POINT NO.

- BENCHMARK LIST**
- BM #1 - CHISELED "I" ON TOP OF SOUTHEAST SIDE OF CONCRETE LIGHT POLE BASE IN PARKING LOT FOR REFORMATION LUTHERAN CHURCH, SOUTHWEST OF BASKETBALL GOAL. ELEV.=1386.01 (NAVD88)
 - BM #2 - CHISELED "I" ON TOP OF EAST CURB BEHIND RETIREMENT HOME, NEAR NORTH END OF 6' CONCRETE WALL. ELEV.=1379.55 (NAVD88)
 - BM #3 - CHISELED "I" ON TOP OF NORTH SIDE OF CONCRETE LIGHT POLE BASE, NORTH NORTHEAST OF NORTH ENTRANCE TO ROCK ROAD DENTAL GROUP, NEAR THE SOUTH LINE OF WICHITA CENTER FOR THE ARTS PROPERTY. ELEV.=1375.53 (NAVD88)
 - BM #4 - CHISELED "I" ON TOP OF NORTH CURB FOR LENS EYE CARE, ±3' WEST OF THE NORTHEAST CORNER OF THE PARKING AREA. ELEV.=1372.79 (NAVD88)
 - BM #5 - CHISELED "I" ON TOP OF WEST CURB OF ROCK ROAD, SOUTH OF INTERSECTION WITH 13TH STREET, WEST OF 2ND HIGH LINE POLE SOUTH OF 13TH STREET. ELEV.=1376.01 (NAVD88)
 - BM #6 - CHISELED "I" ON THE SOUTHWEST CORNER OF CURB INLET, IN THE SOUTH CURB OF 13TH STREET, AT THE SOUTHWEST CORNER OF INTERSECTION OF 13TH STREET AND ROCK ROAD. ELEV.=1376.61 (NAVD88)
 - BM #7 - CHISELED "I" ON THE SOUTHWEST CORNER OF CURB INLET IN THE SOUTH CURB OF 13TH STREET, SOUTH OF ENTRANCE TO THE HERITAGE HOUSING COMPLEX. ELEV.=1380.88 (NAVD88)
 - BM #8 - CHISELED "I" ON TOP OF SOUTH CURB OF 13TH STREET, NEAR NORTHEAST CORNER OF REFORMATION LUTHERAN CHURCH PROPERTY. ELEV.=1386.53 (NAVD88)

- CONTROL POINTS**
- PL No. 501
#4 REBAR IN GRASS EAST OF ASPHALT PARKING FOR CHURCH
N: 1,693,883.327, E: 1,674,471.983
1. 64.7' NORTHWEST TO SOUTH CORNER BASKETBALL GOAL
2. 101.0' SOUTH SOUTHWEST TO NORTHEAST END TOP OF CURB
3. 111.1' WEST SOUTHWEST TO CHISELED "I" ON CONC. LIGHT BASE "BMK-1"
4. 400.0' NORTH TO 400 OF 13TH STREET
 - PL No. 502
#4 REBAR IN GRASS ON SOUTH LINE OF WICHITA CENTER FOR THE ARTS SITE
N: 1,693,262.851, E: 1,674,997.154
1. 23.0' SOUTH SOUTHWEST TO CHISELED "I" ON TOP OF LIGHT BASE "BMK-3"
2. 55.7' EAST SOUTHWEST TO NORTHWEST CORNER OF ELECTRIC BOX
3. 79.5' WEST SOUTHWEST TO NORTHWEST CORNER OF TOP OF CURB
4. 75.0' SOUTHWEST TO 400 OF DOORWAY OF NORTH ENTRANCE TO ROCK ROAD DENTAL GROUP
 - PL No. 503
#4 REBAR IN GRASS NEAR EAST LINE OF WICHITA CENTER FOR THE ARTS SITE
N: 1,693,565.724, E: 1,675,374.045
1. 70.8' EAST TO BACK OF WEST CURB OF ROCK ROAD
2. 47.5' NORTHEAST TO SOUTH FACE OF 10" GRAB APPLE TREE
3. 27.2' SOUTHWEST TO NORTH FACE OF 12" MAPLE TREE
4. 71.5' EAST NORTHEAST TO CHISELED "I" ON TOP OF WEST CURB OF ROCK ROAD
 - PL No. 504
#4 REBAR IN GRASS SOUTH OF SIDEWALK, SOUTH R/W 13TH STREET
N: 1,694,037.043, E: 1,674,948.192
1. 2.0' NORTH TO BACK OF SIDEWALK
2. 17.7' EAST SOUTHWEST TO NORTH FACE OF 12" ELM
3. 10.0' NORTHWEST TO CHISELED "I" ON SOUTHWEST CORNER OF INLET "BMK-7"
4. 48.6' SOUTHWEST TO CENTER OF SANITARY SEWER MANHOLE

No.	Revision	By	Date

CITY OF WICHITA, KANSAS
THE WICHITA CENTER FOR THE ARTS
PPD KEY MAP
GARY JANZEN, P.E. - CITY ENGINEER
CITY OF WICHITA PROJECT NO. 0401 PPD (607861)

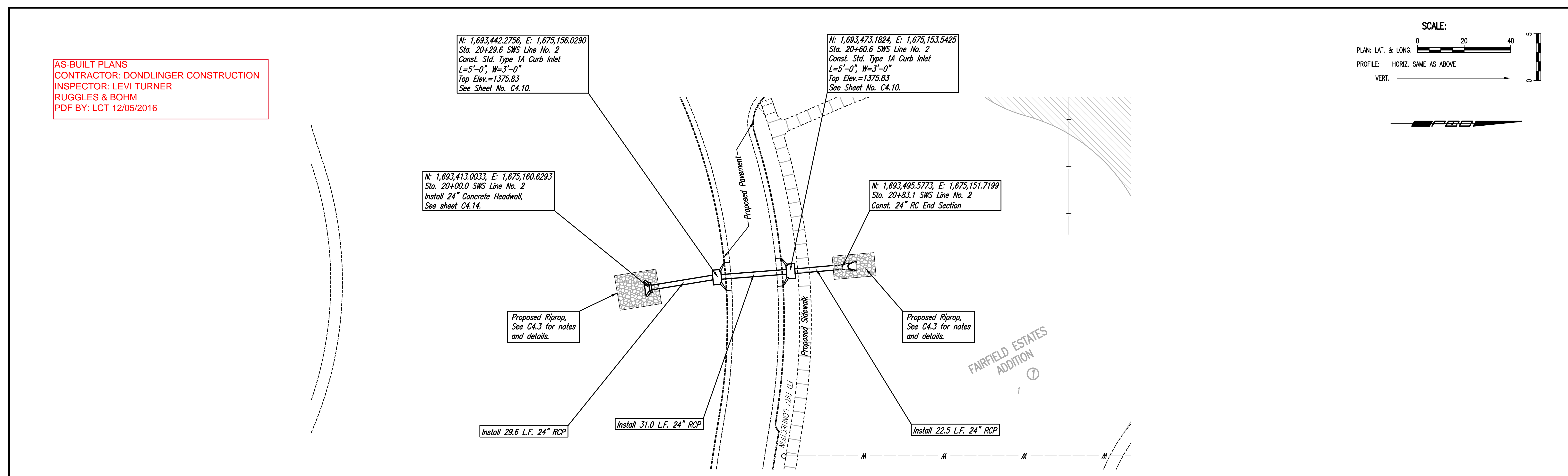
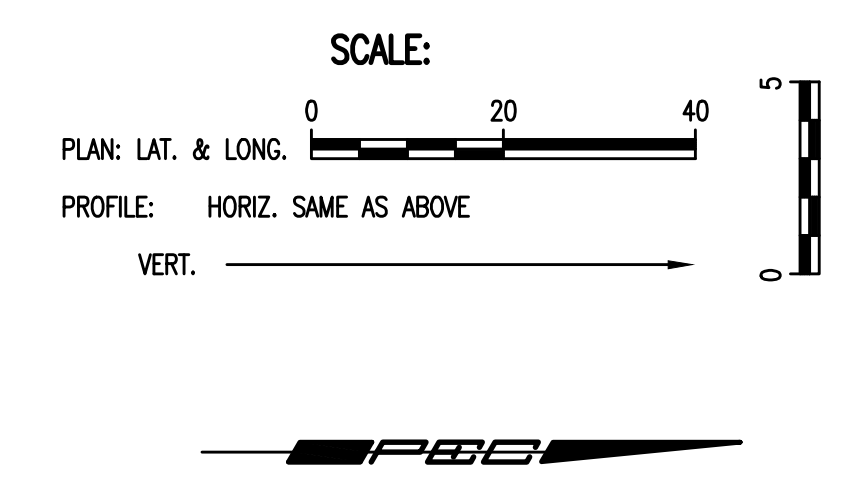
PEC PROFESSIONAL ENGINEERING CONSULTANTS P.A.
1907 N. ROCK ROAD WICHITA, KS 67202
316-262-2691 www.pec1.com

Designed by: TBK, JAG Job No.: 15695-000 Sht. C4.2 of
Drawn by: KTD, CSL Date: JUNE 2016

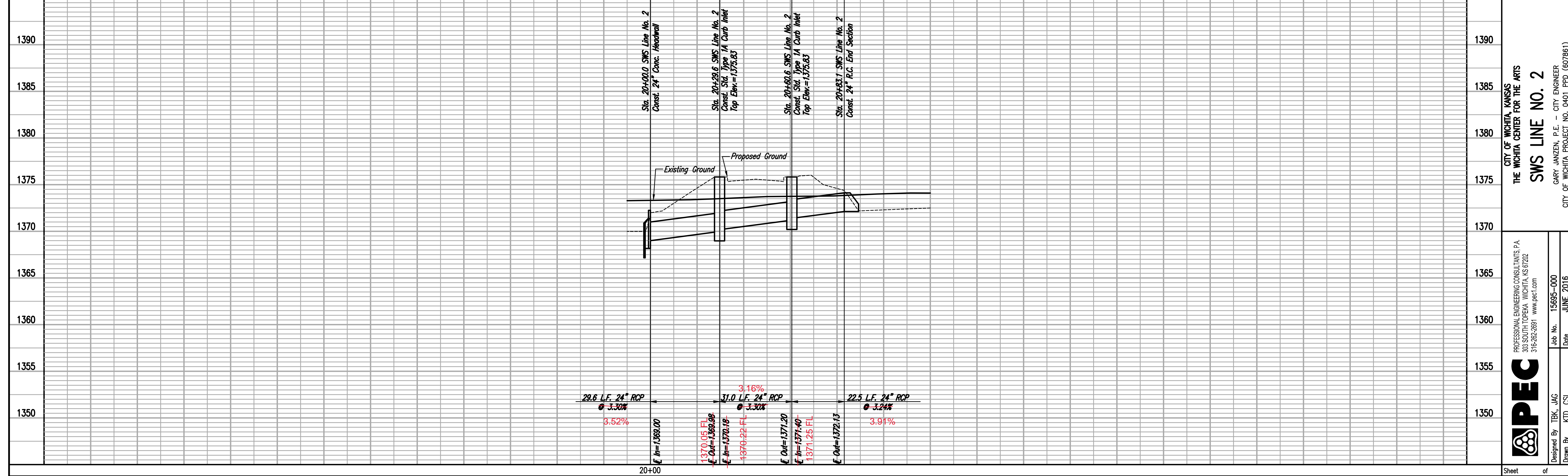
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PROFILE	CHECKED	DATE

AS-BUILT PLANS
 CONTRACTOR: DONDLINGER CONSTRUCTION
 INSPECTOR: LEVI TURNER
 RUGGLES & BOHM
 PDF BY: LCT 12/05/2016



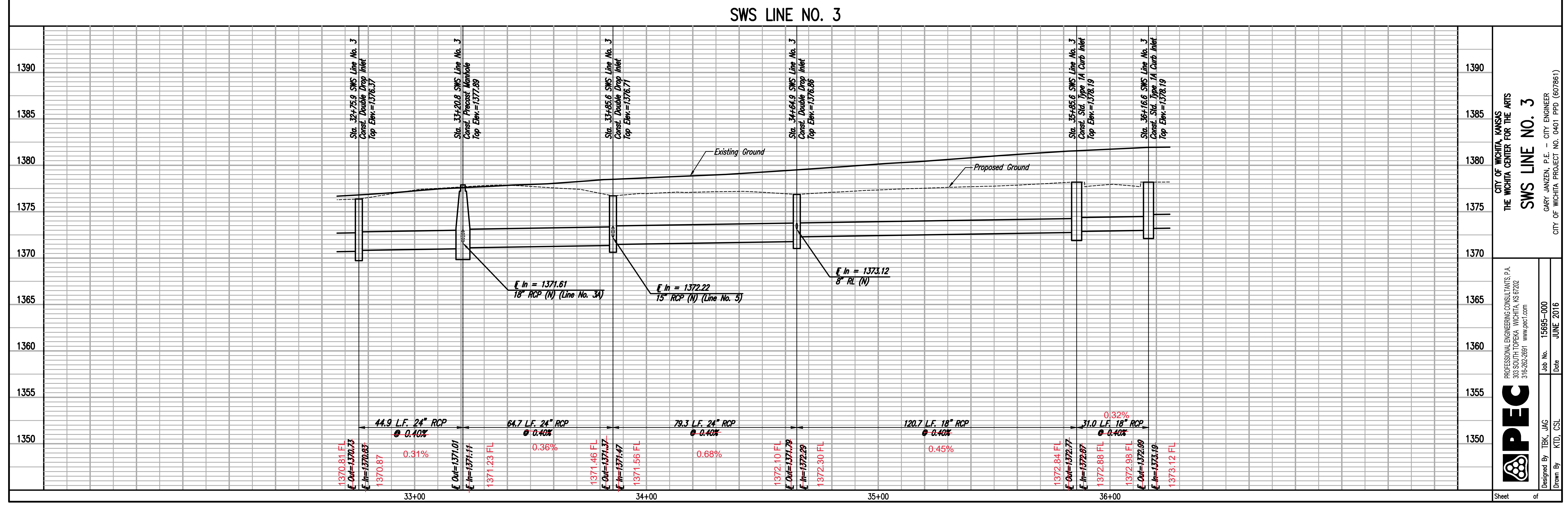
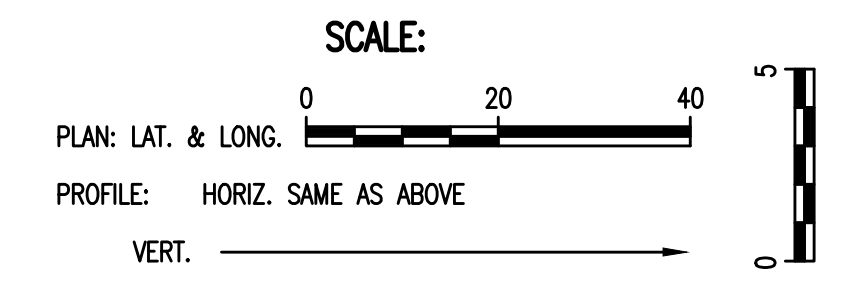
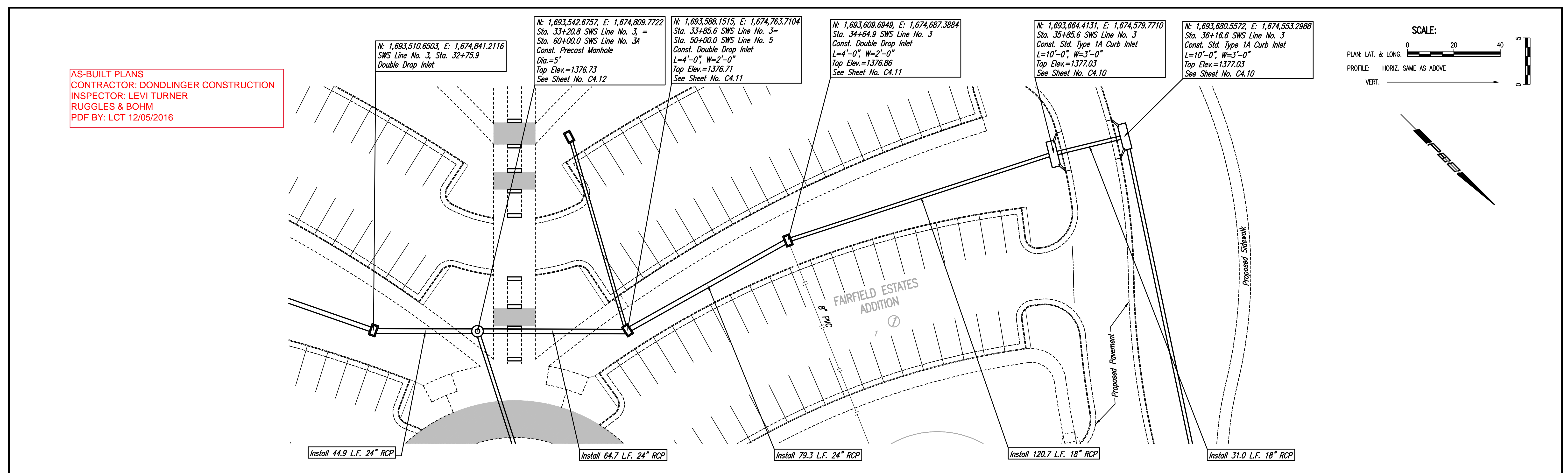
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AS-BUILT PLANS
 CONTRACTOR: DONDLINGER CONSTRUCTION
 INSPECTOR: LEVI TURNER
 RUGGLES & BOHM
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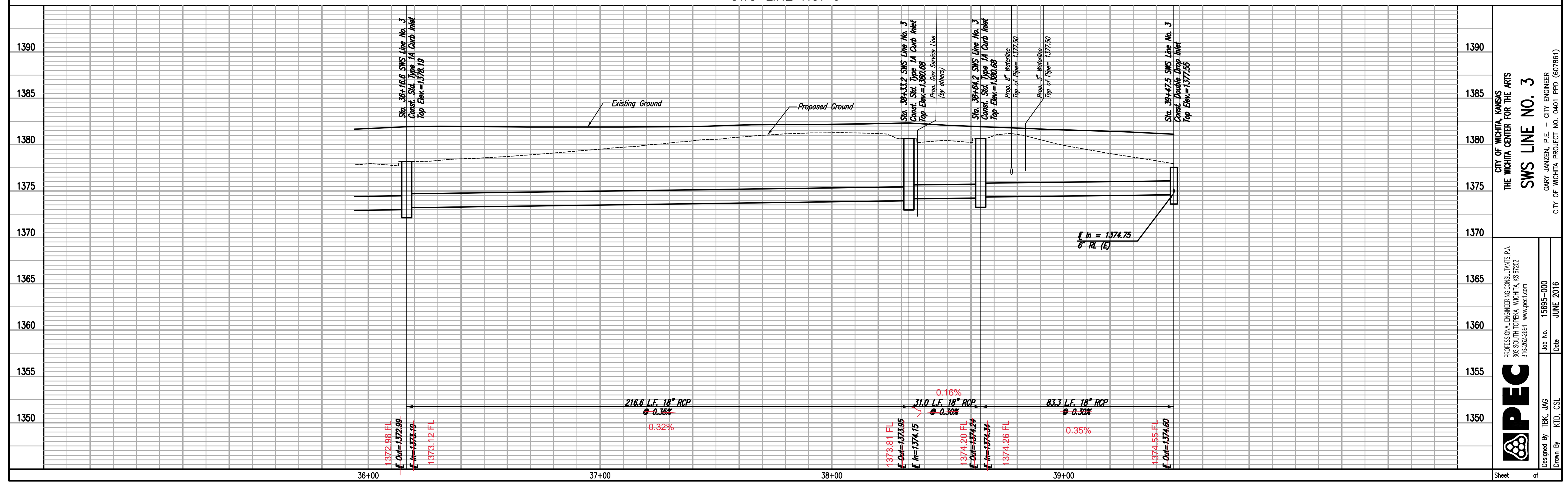
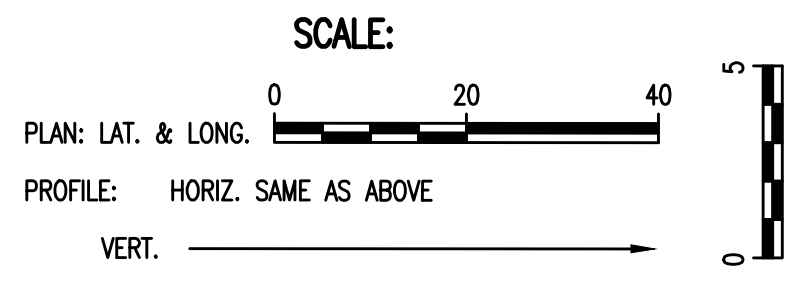
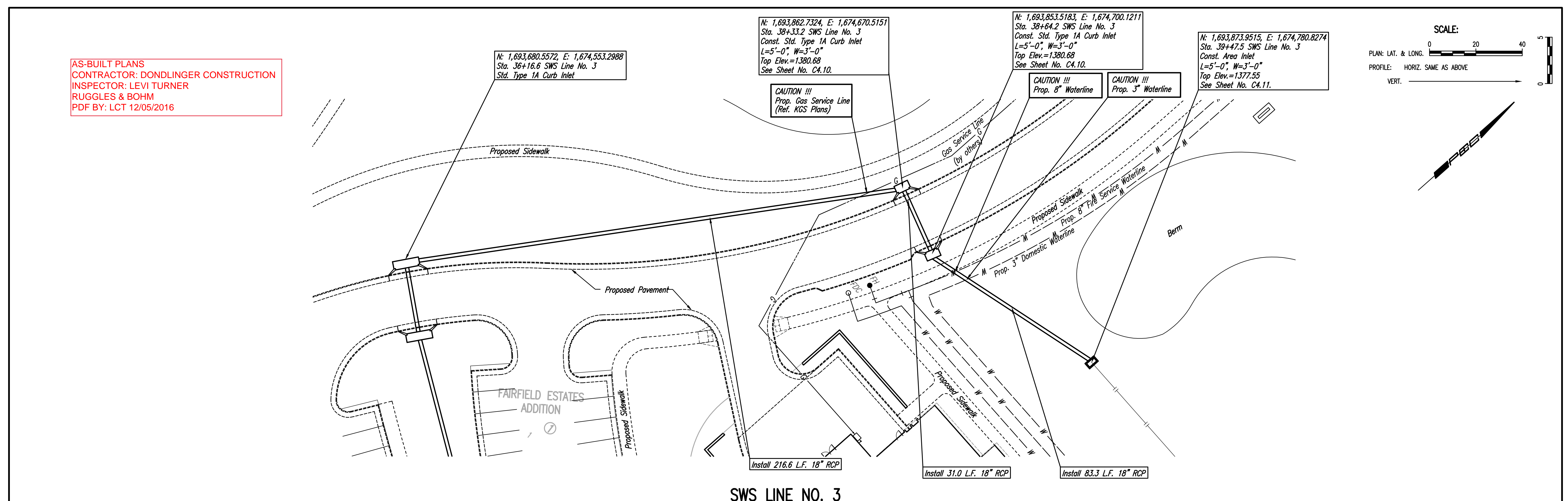
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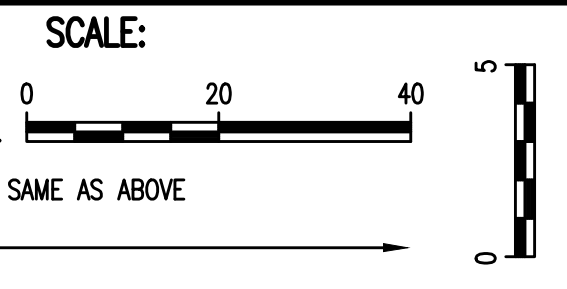


AS-BUILT PLANS
 CONTRACTOR: DONDLINGER CONSTRUCTION
 INSPECTOR: LEVI TURNER
 RUGGLES & BOHM
 PDF BY: LCT 12/05/2016

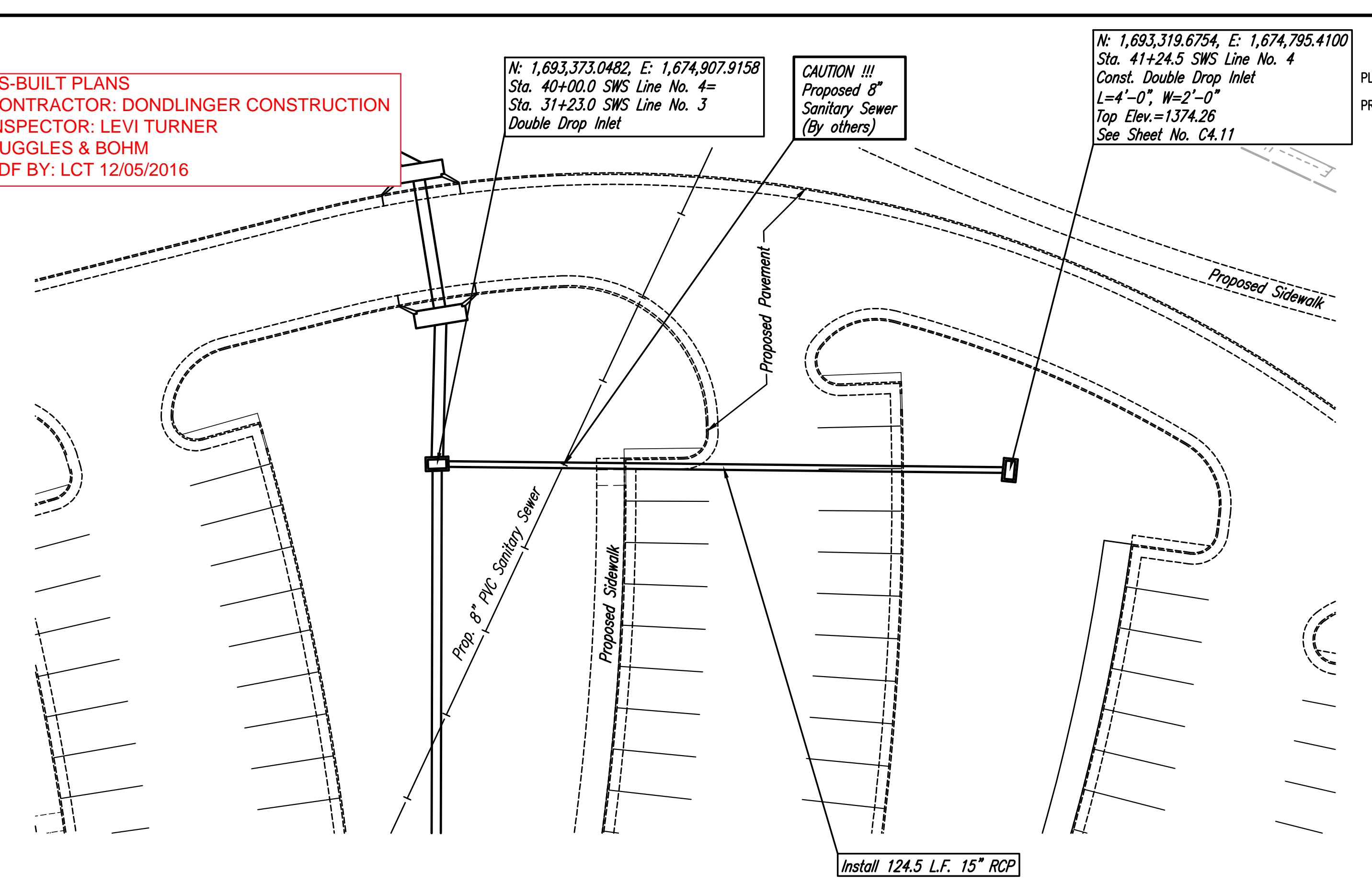
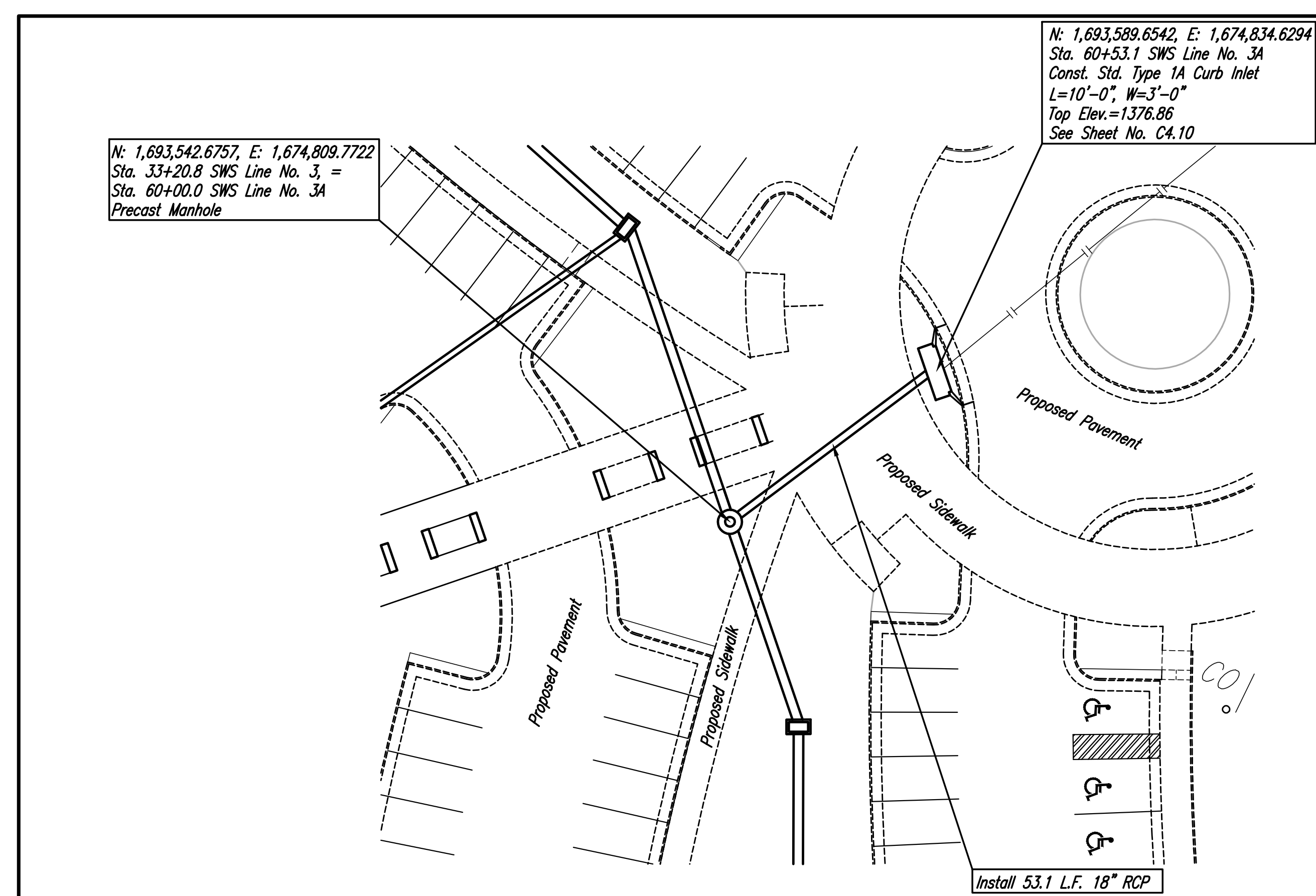
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AS-BUILT PLANS
CONTRACTOR: DONDLINGER CONSTRUCTION
INSPECTOR: LEVI TURNER
RUGGLES & BOHM
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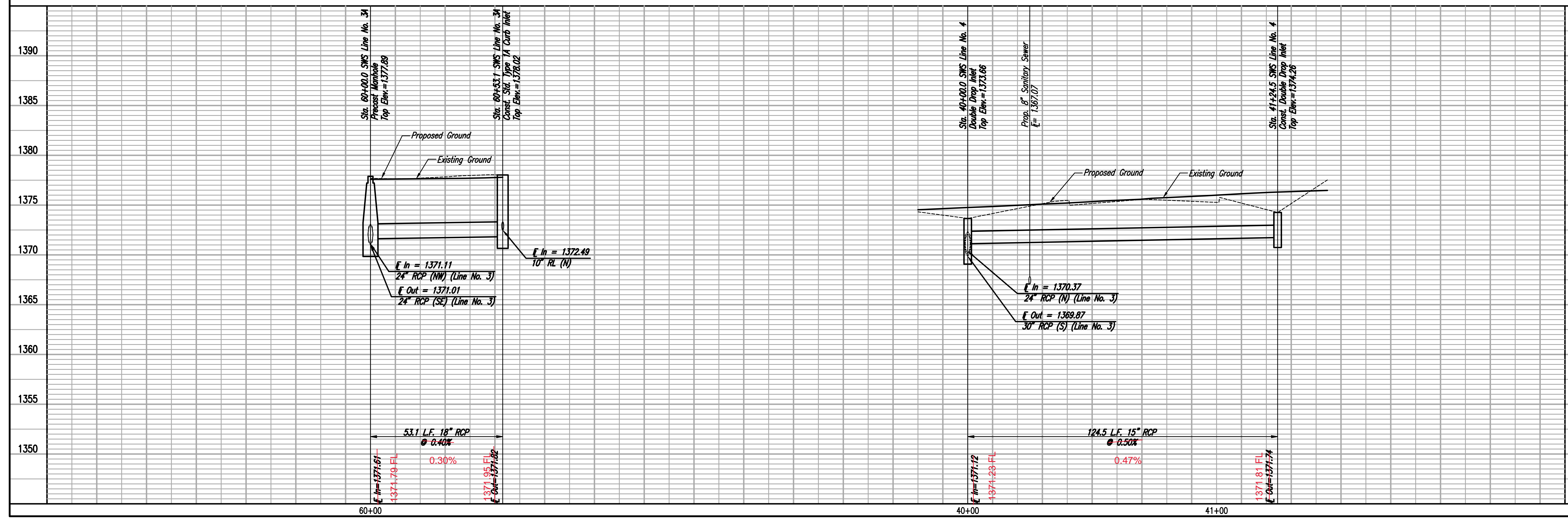


SWS LINE NO. 3A

SWS LINE NO. 4

PLAN	CHECKED	DATE
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PROFILE	CHECKED	DATE
	CHECKED	



CITY OF WICHITA, KANSAS
THE WICHITA CENTER FOR THE ARTS
SWS LINE NO. 3A & 4
GARY JANZEN, P.E. - CITY ENGINEER
CITY OF WICHITA, PROJECT NO. 0401 (P0) (8/28/16)

PEC
PROFESSIONAL ENGINEERING CONSULTANTS P.A.
303 SOUTH TOPEKA WICHITA, KS 67202
316-262-2881 www.pec1.com

Job No.: 15205-000
Date: JUNE 2016

Designed By: TBK, JAG
Drawn By: KTD, CSL

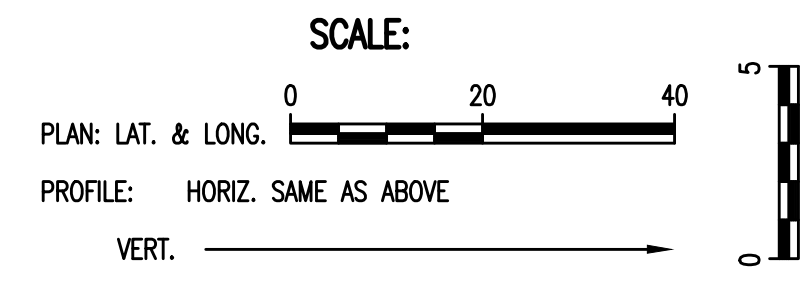
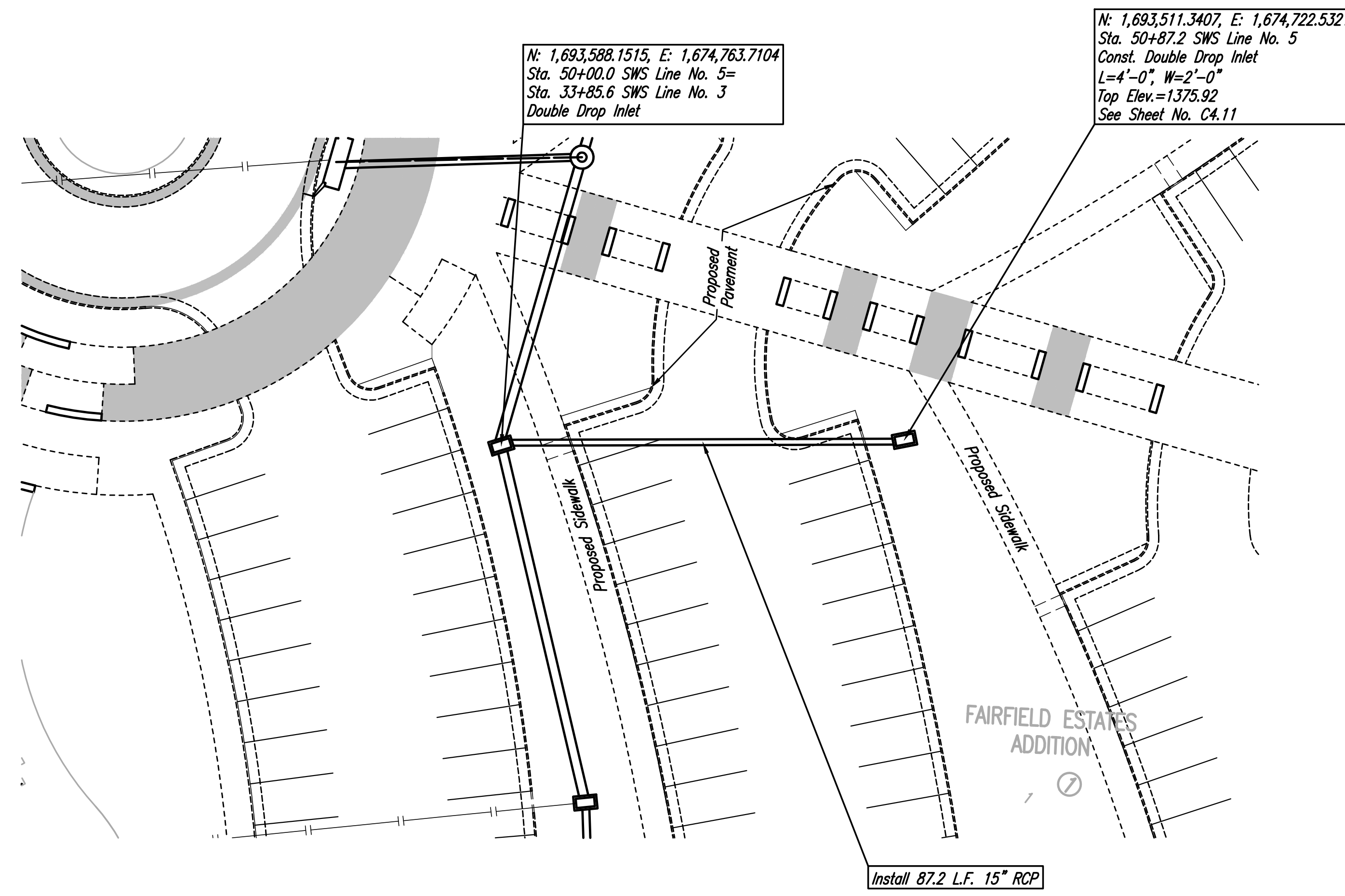
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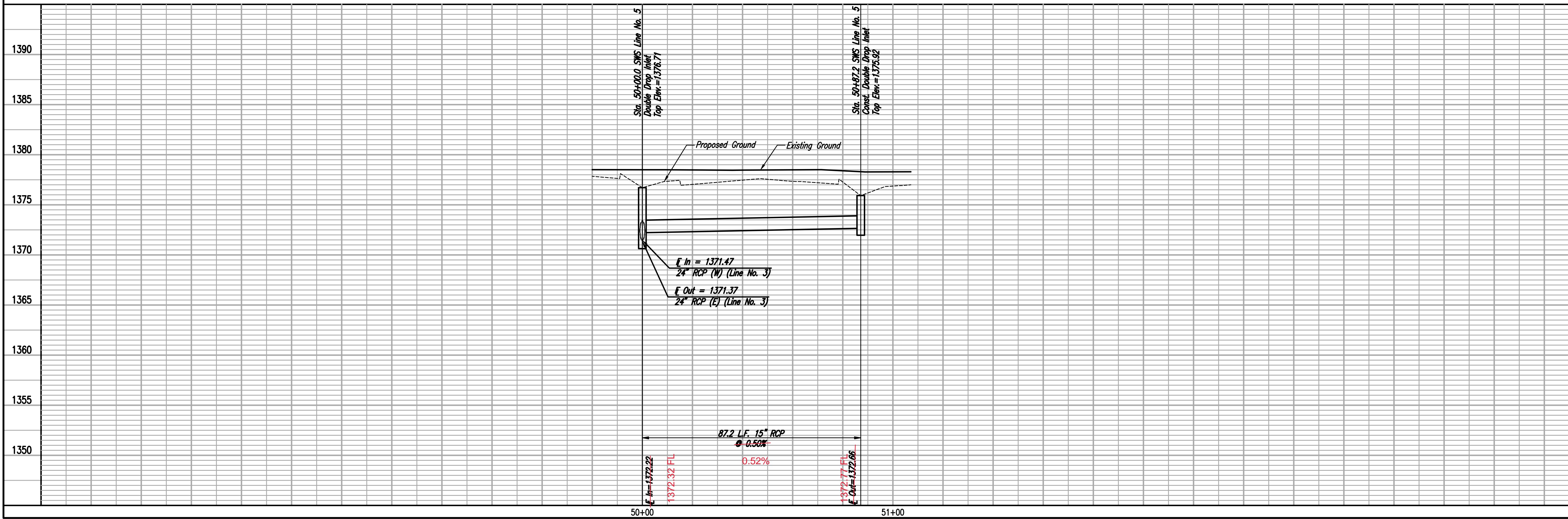
PLAN	CHECKED	DATE

PROFILE	CHECKED	DATE

AS-BUILT PLANS
 CONTRACTOR: DONDLINGER CONSTRUCTION
 INSPECTOR: LEVI TURNER
 RUGGLES & BOHM
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SWS LINE NO. 5



CITY OF WICHITA, KANSAS
 THE WICHITA CENTER FOR THE ARTS
 SWS LINE NO. 5
 GARY JANZEN, P.E. - CITY ENGINEER
 CITY OF WICHITA, PROJECT NO. 0401 EPD (807861)

PROFESSIONAL ENGINEERING CONSULTANTS P.A.
 303 SOUTH TOPEKA WICHITA, KS 67202
 316-262-2881 www.pec.com

Job No. 15665-000
 Date JUNE 2016

Designed By TBK, JAG
 Drawn By KTD, CSL

Sheet 4



3500 north rock road
 1445 500 Wichita, KS 67226
 316.634.1010 (p) 316.634.1016 (f)



project no.
 15205.00

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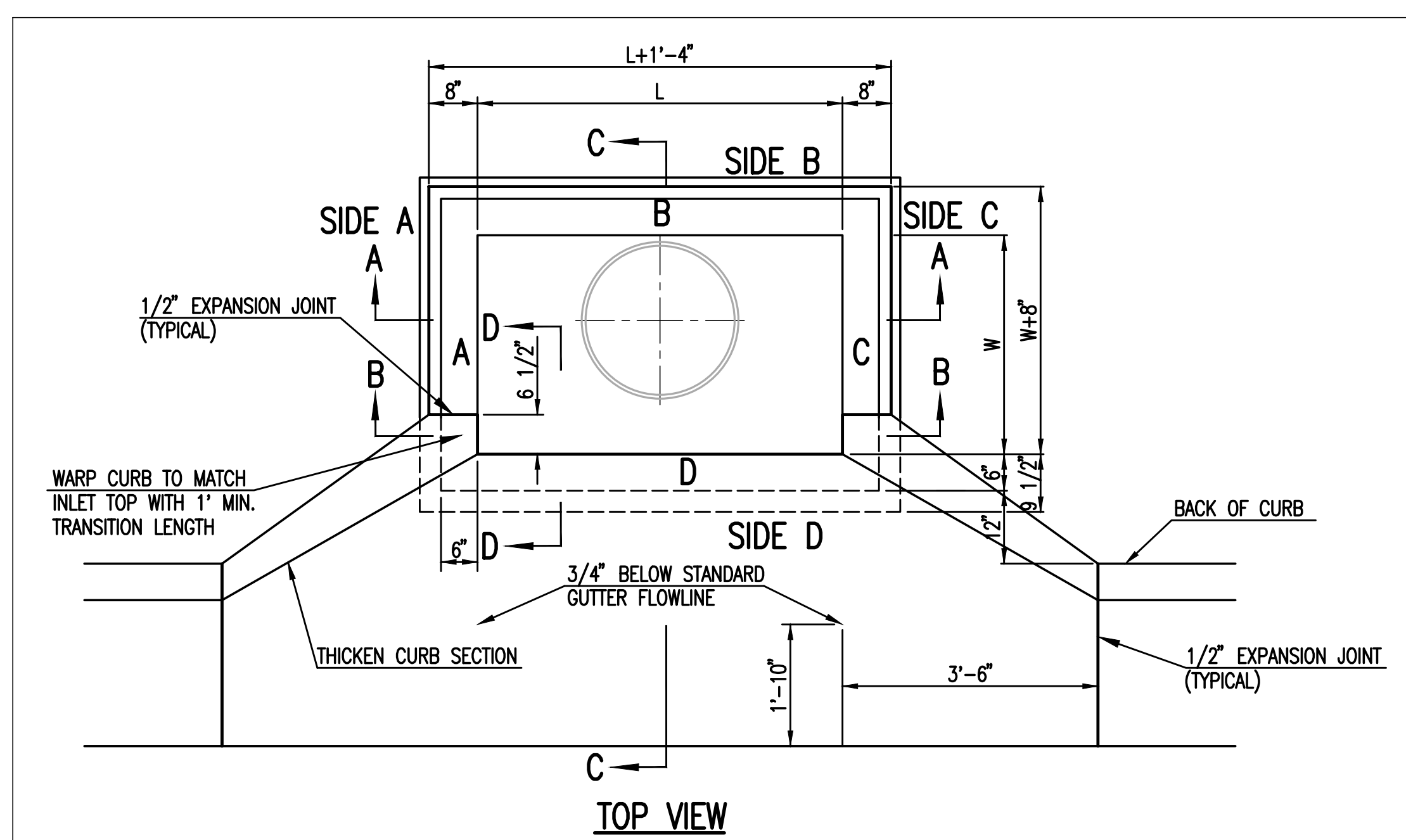
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 Architects P.A.

MARY R KOCH ARTS CENTER

1307 N. ROCK ROAD
 WICHITA, KS 67206

FORMERLY WICHITA CENTER FOR THE ARTS



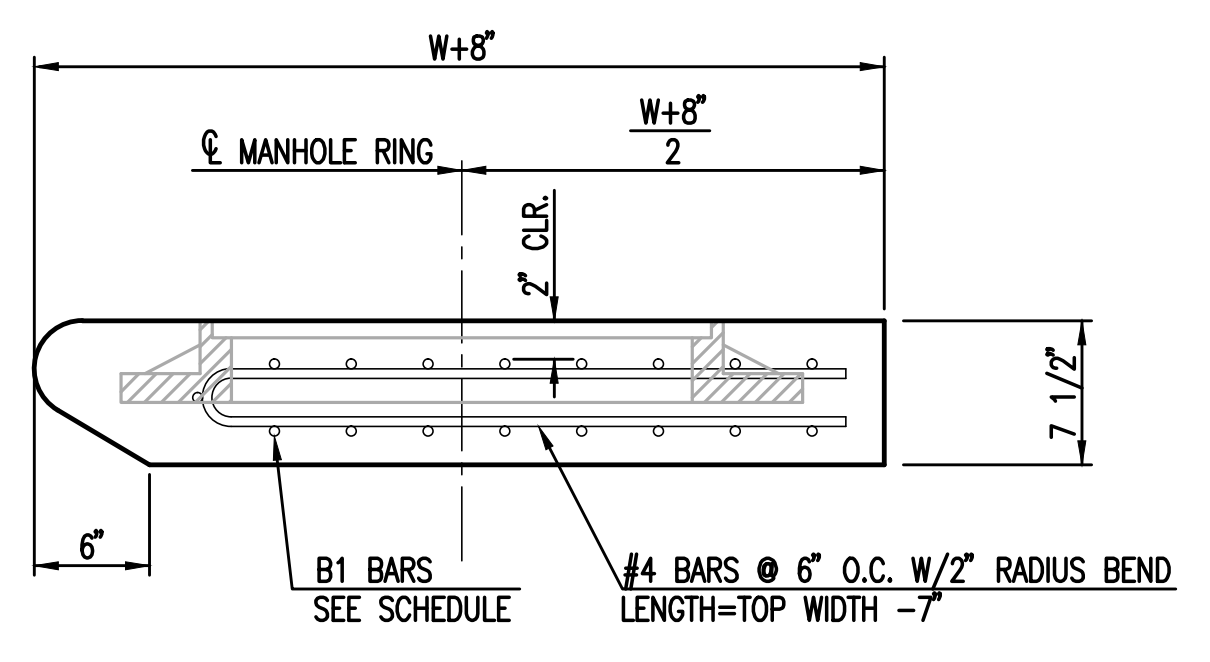
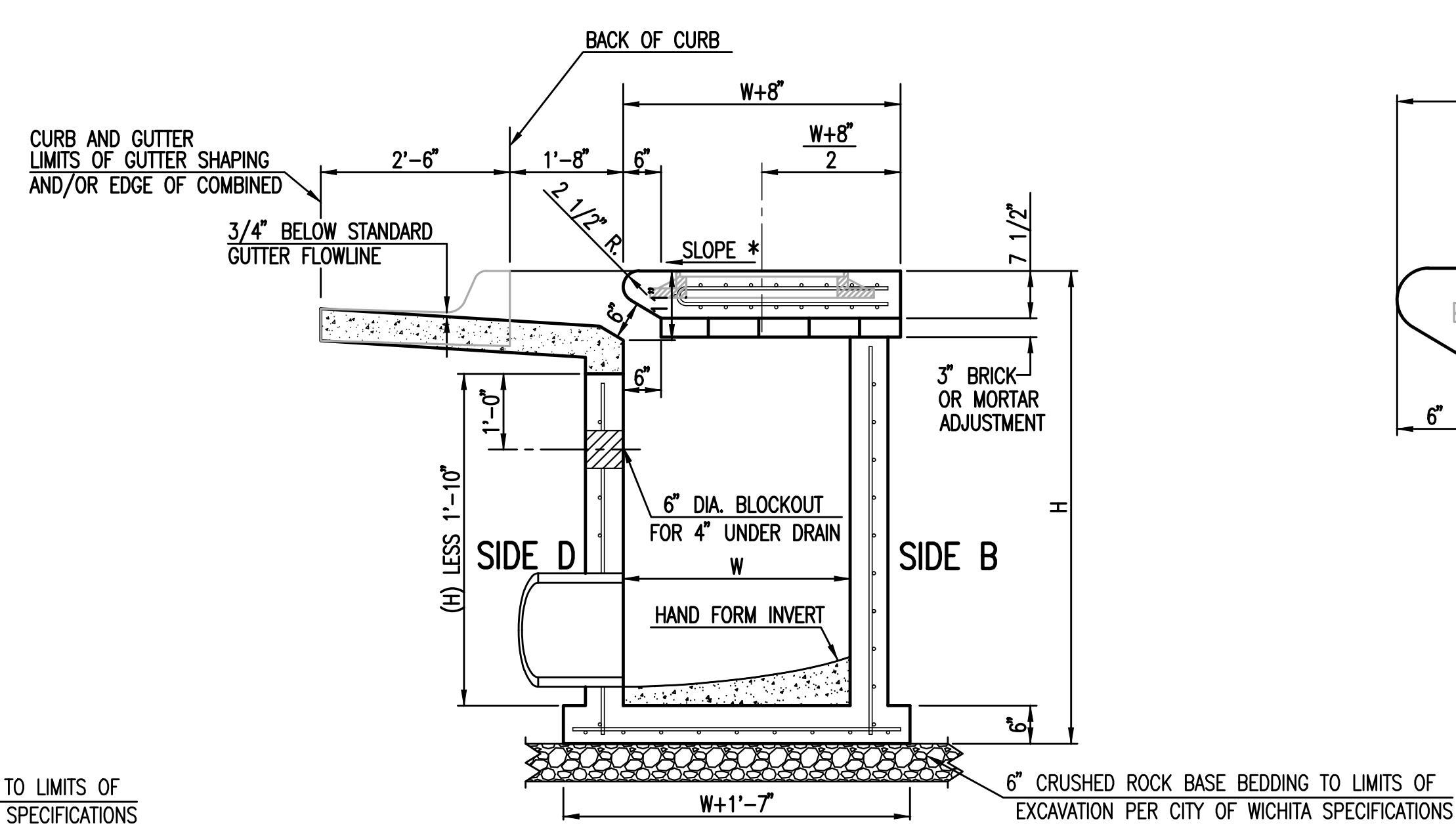
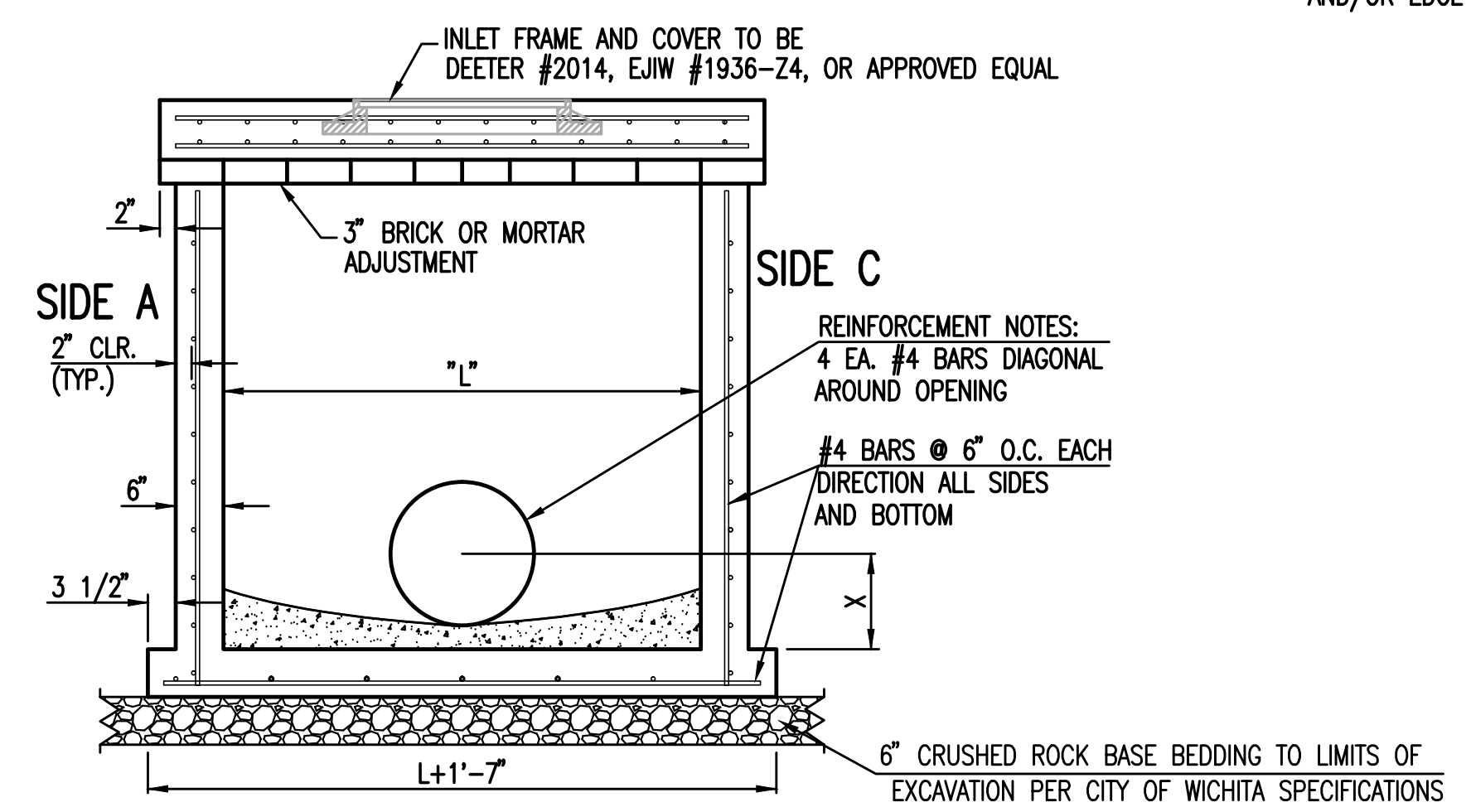


BAR SCHEDULE		
INLET OPENING	B1 BARS	SPACING
5'-0"	#4	4"
10'-0"	#6	3.5"

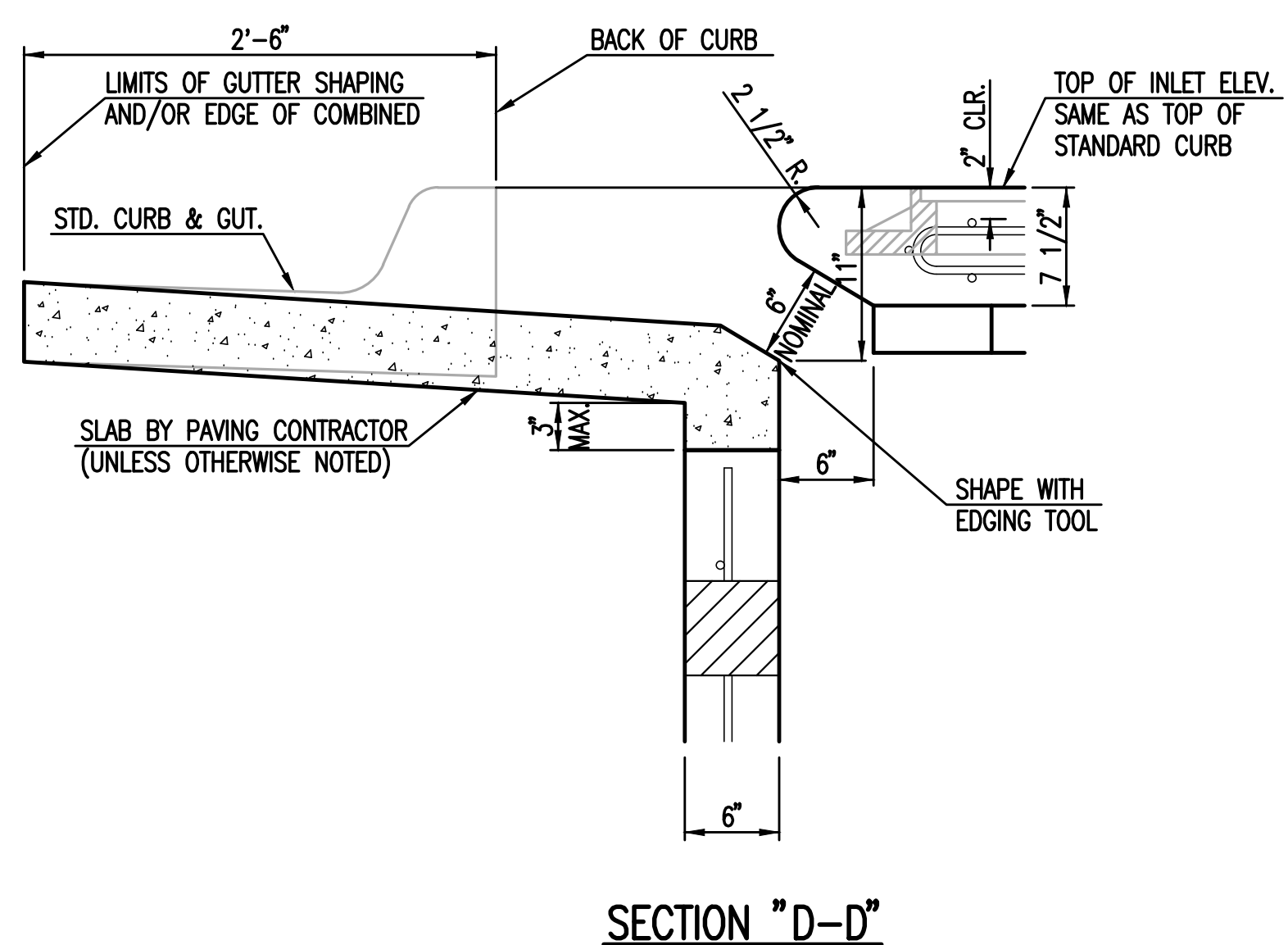
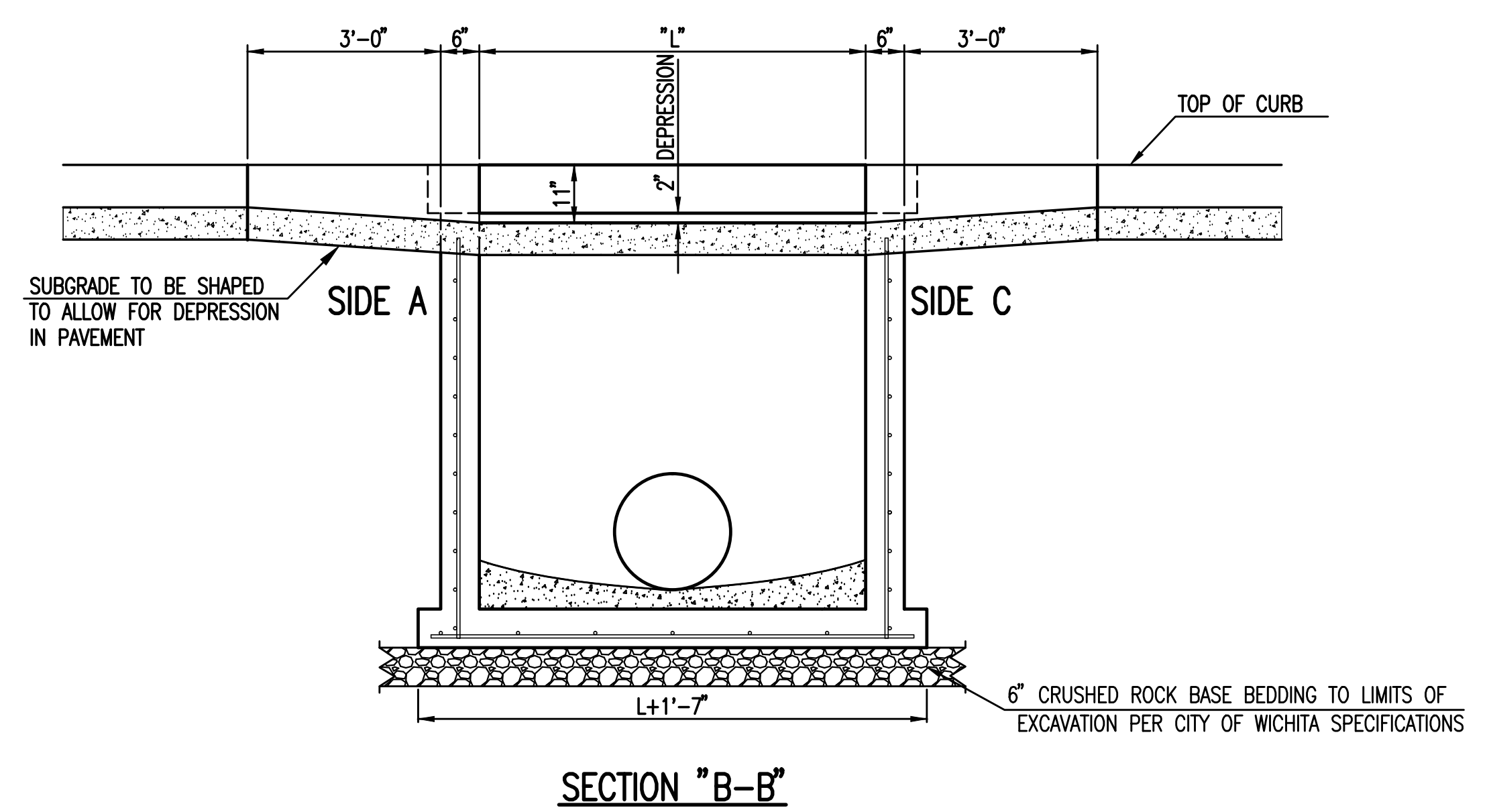
PRECAST CURB INLET WIDTHS					
W	PRE-CAST TOP SIZE			PIPE DIA.**	
	WIDTH	LENGTH	TOP		
3'-0"	W+8"	L+1'-4"	7 1/2"	21" & SMALLER	
4'-0"	W+8"	L+1'-4"	7 1/2"	24" & 30"	
5'-0"	W+8"	L+1'-4"	7 1/2"	36" & 42"	
6'-0"	W+8"	L+1'-4"	7 1/2"	48" & 54"	
7'-0"	W+8"	L+1'-4"	7 1/2"	60" & 66"	

** 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.
 - 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.



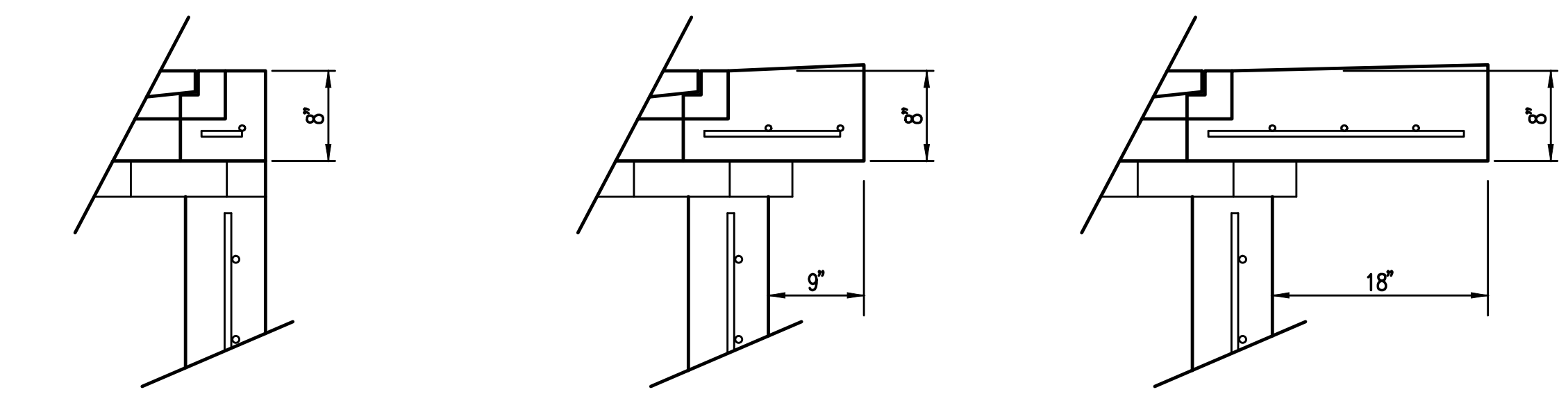
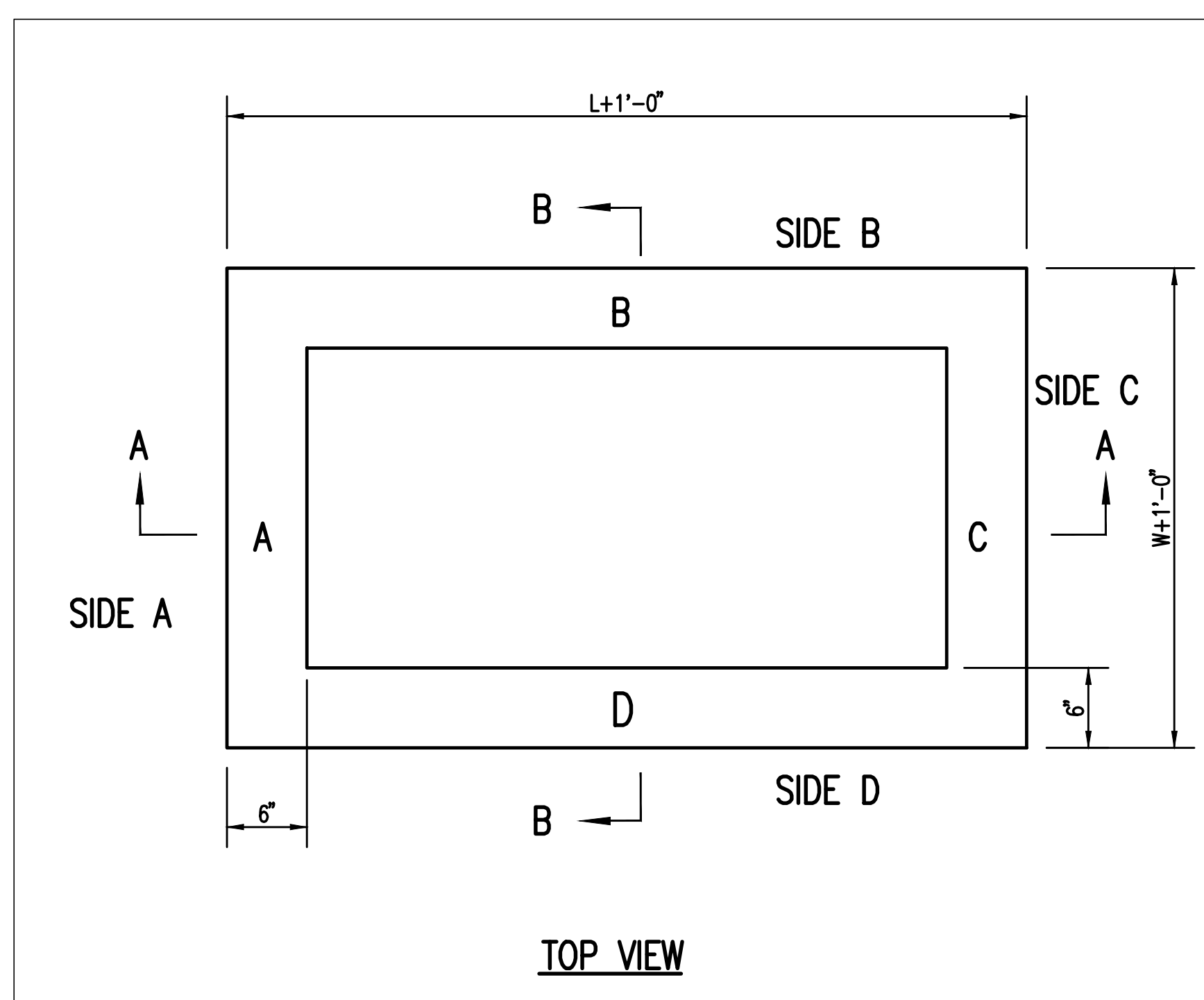
NOTES:
* SLOPE OF INLET TOP TO MATCH SIDEWALK OR PARKING SLOPES WITHIN LIMITS INDICATED.



STANDARD TYPE 1A CURB INLET 5'-0" OR 10'-0" OPENING		
CITY ENGINEER GARY JANZEN, P.E.		
PROJECT NUMBER 0401 PPD	OGA NUMBER (607861)	DATE
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		SHEET C4.10

REVISED: MARCH 2015

SW-103



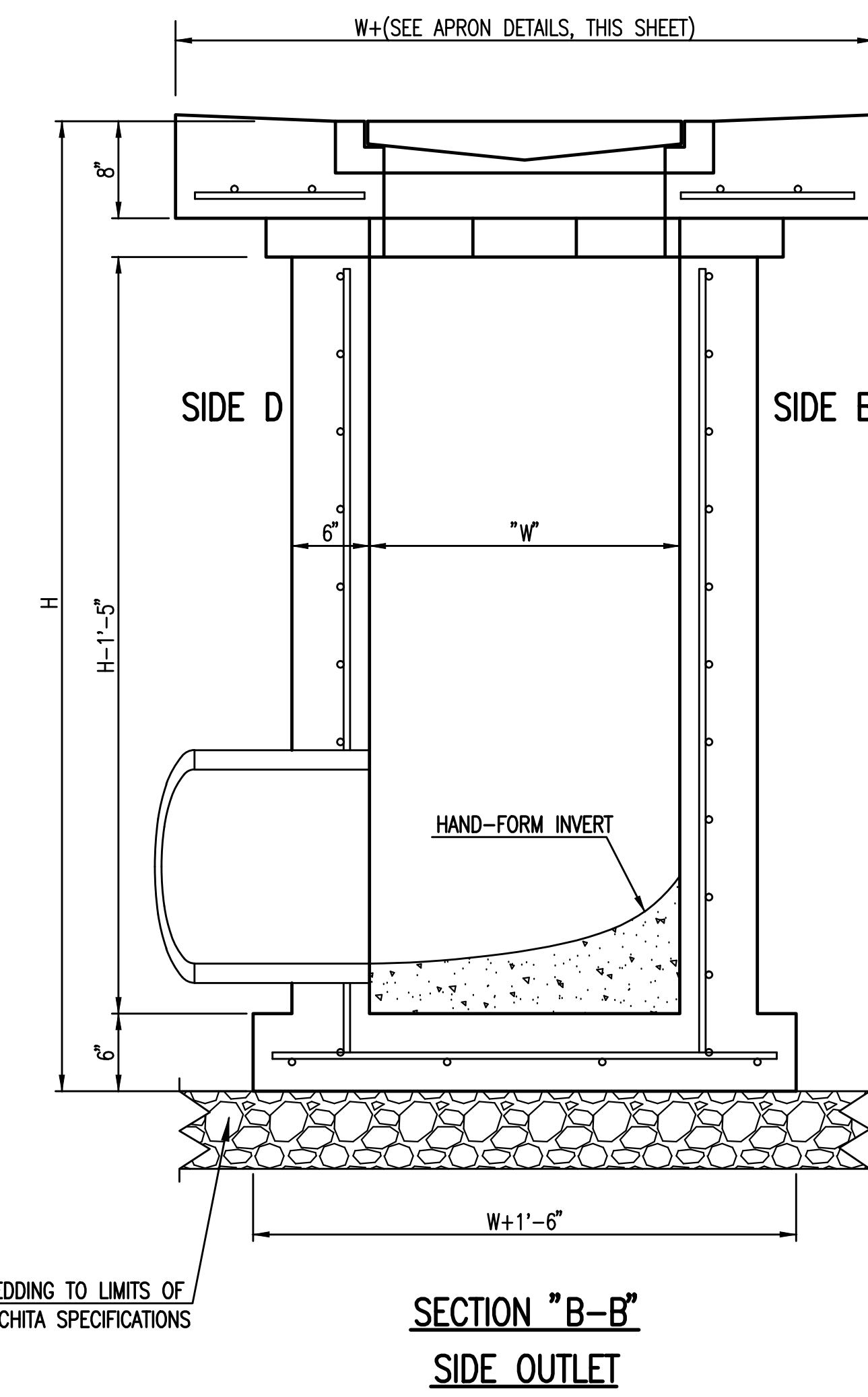
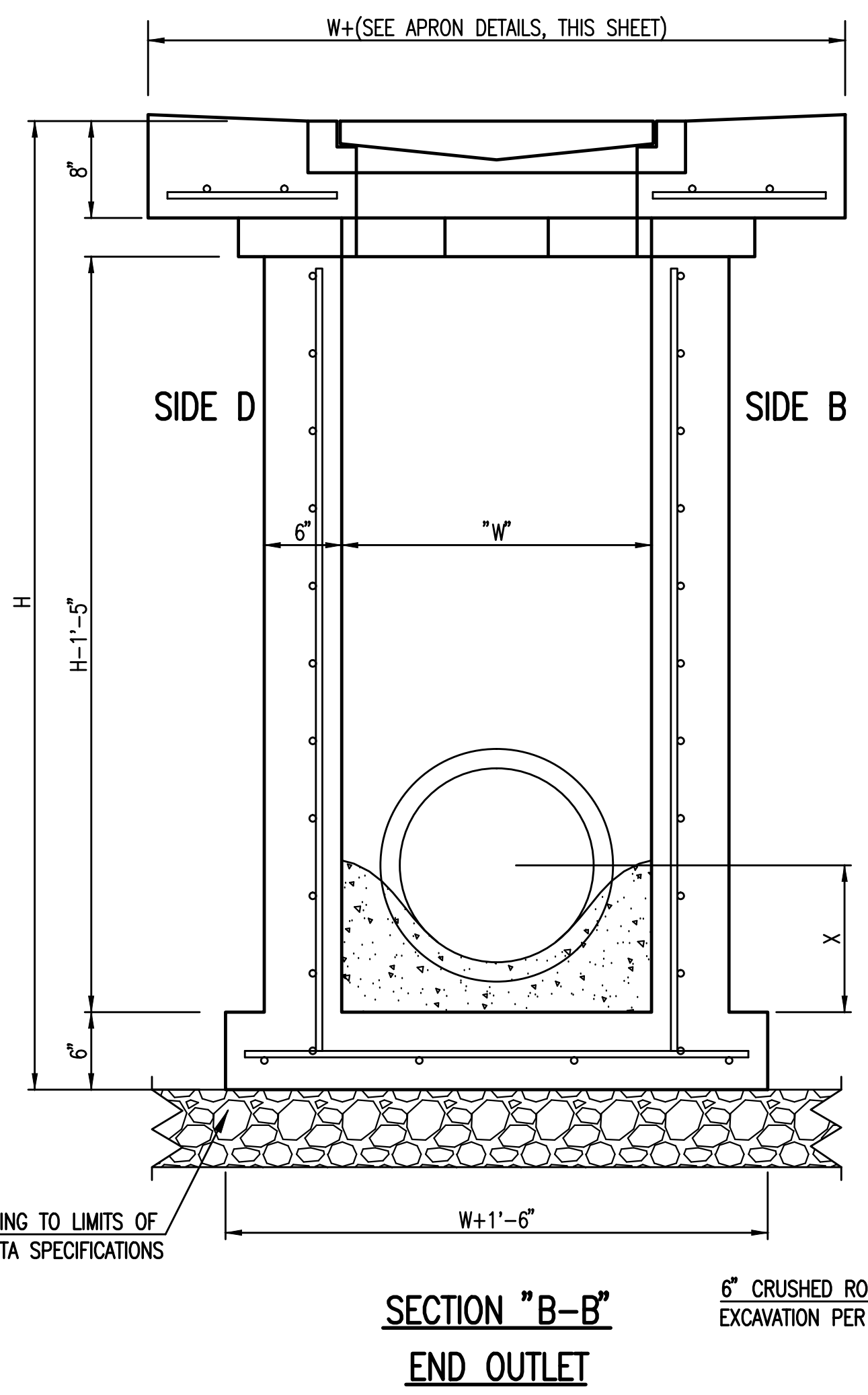
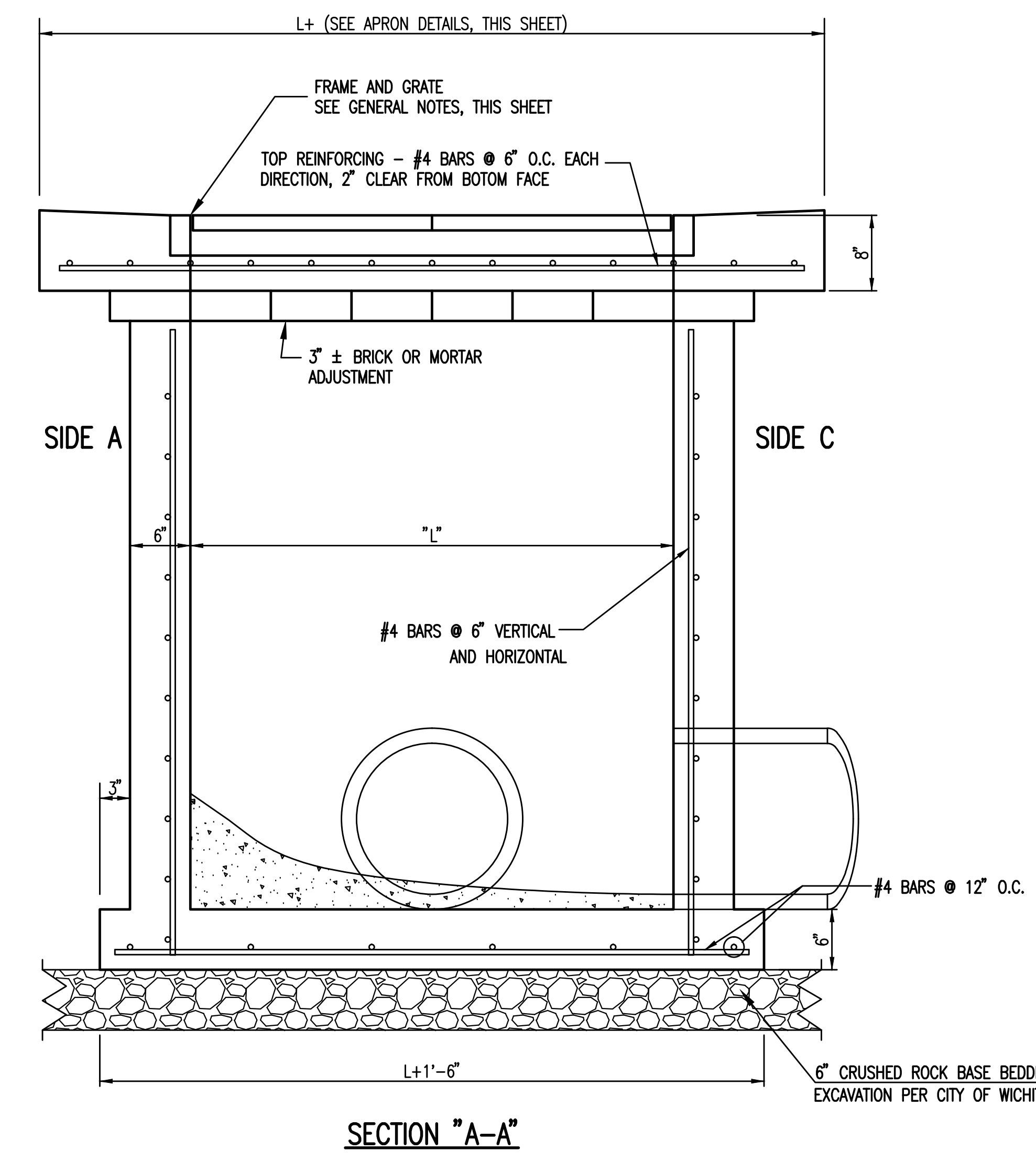
* APRON TO EXTEND ON ALL 4 SIDES OF INLET. DESIGNER TO DESIGNATE APRON SIZE.

W=2' and L=2' for SINGLE DROP INLET
W=2' and L=4' for DOUBLE DROP INLET

The structure(s) on this detail sheet are designed for HS-20 loading at these specific dimensions only. If larger dimensions are required, the ENGINEER shall provide a project specific structure design for approval by the City Engineer's office.

GENERAL NOTES

- 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.
- 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 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.
- 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.

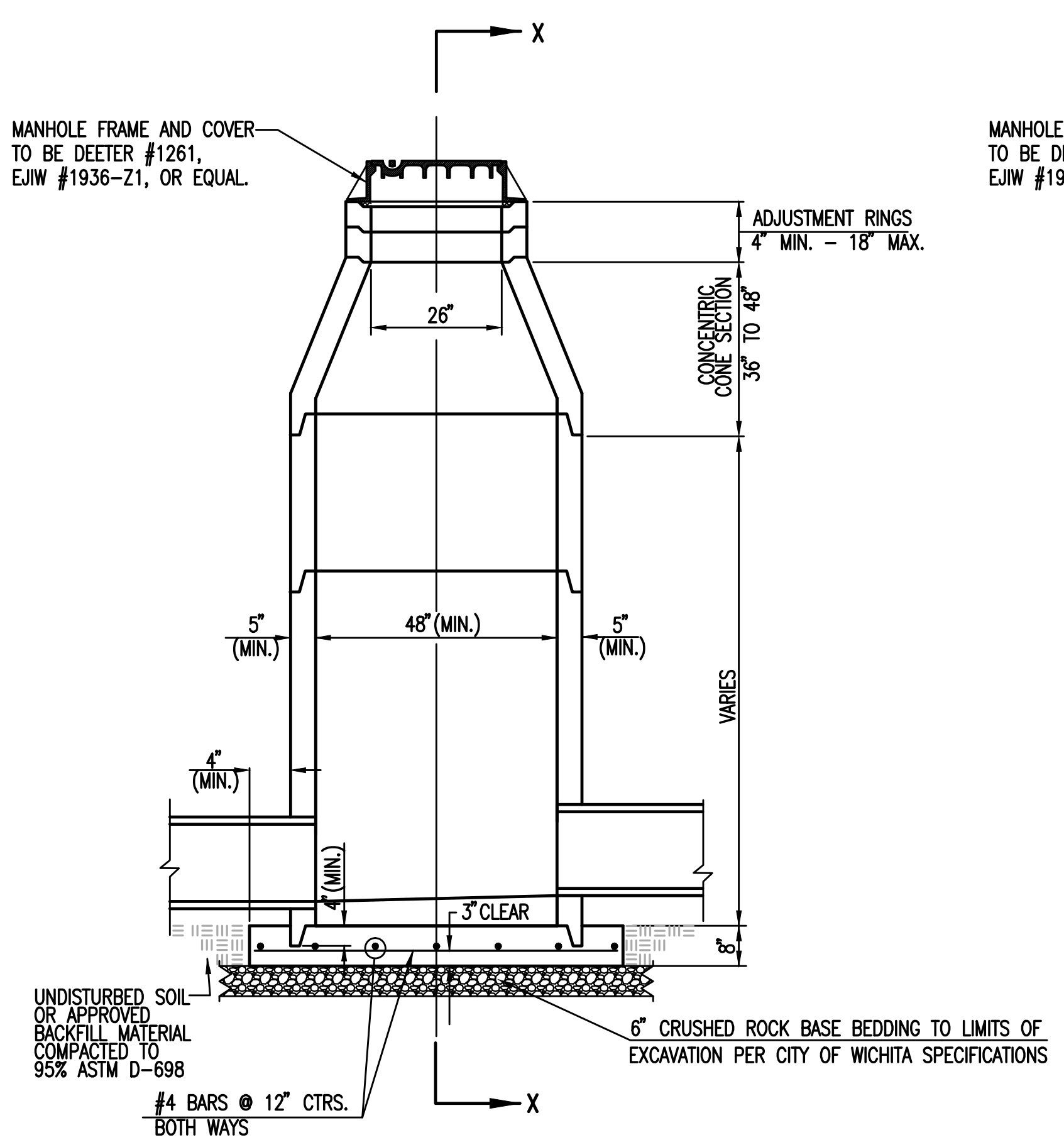


REVISED: MARCH 2015

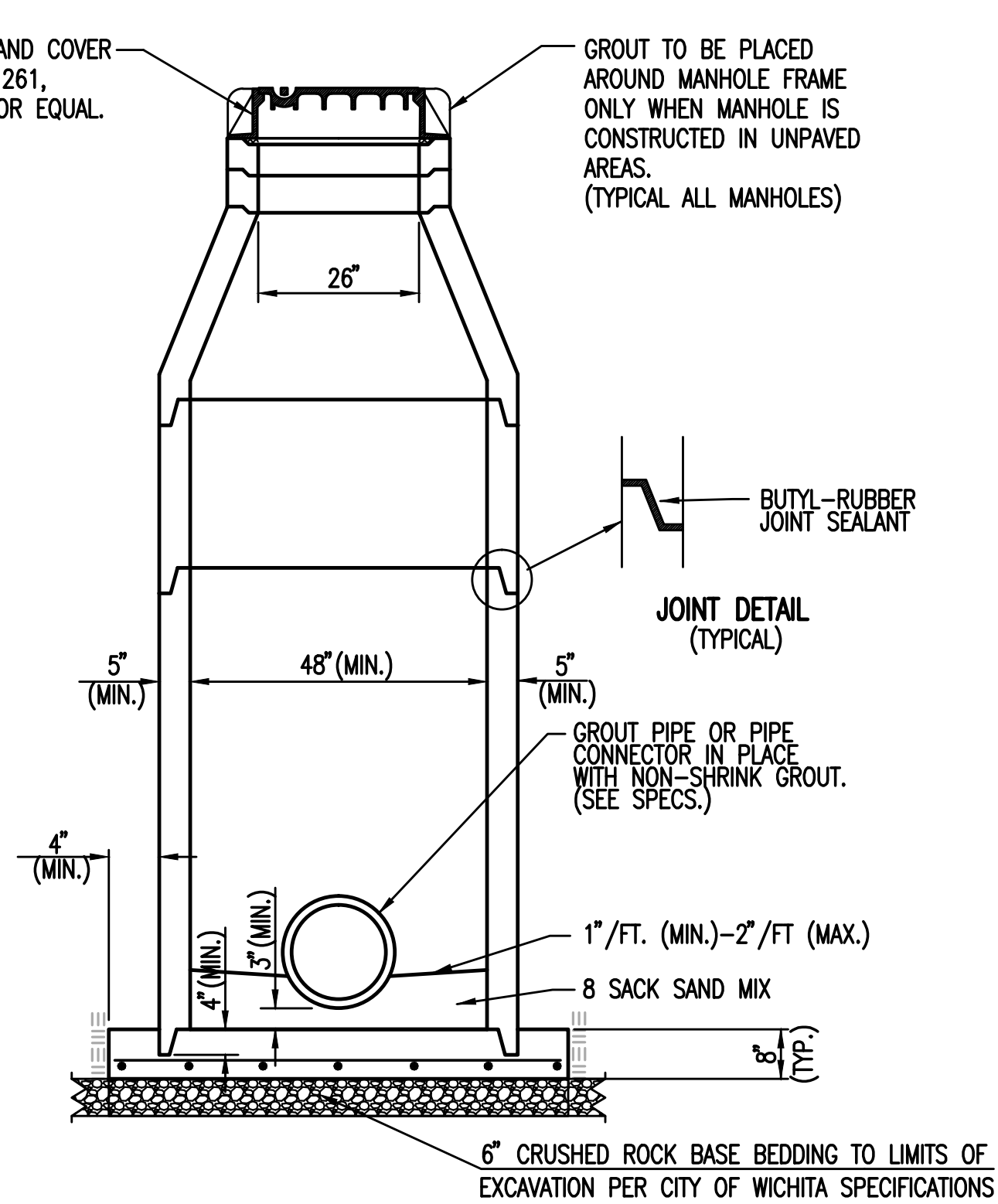
SINGLE/DOUBLE DROP INLET		
CITY ENGINEER GARY JANZEN, P.E.		
PROJECT NUMBER 0401 PPD	OGA NUMBER (607861)	DATE
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		SHEET C4.11

SW-201

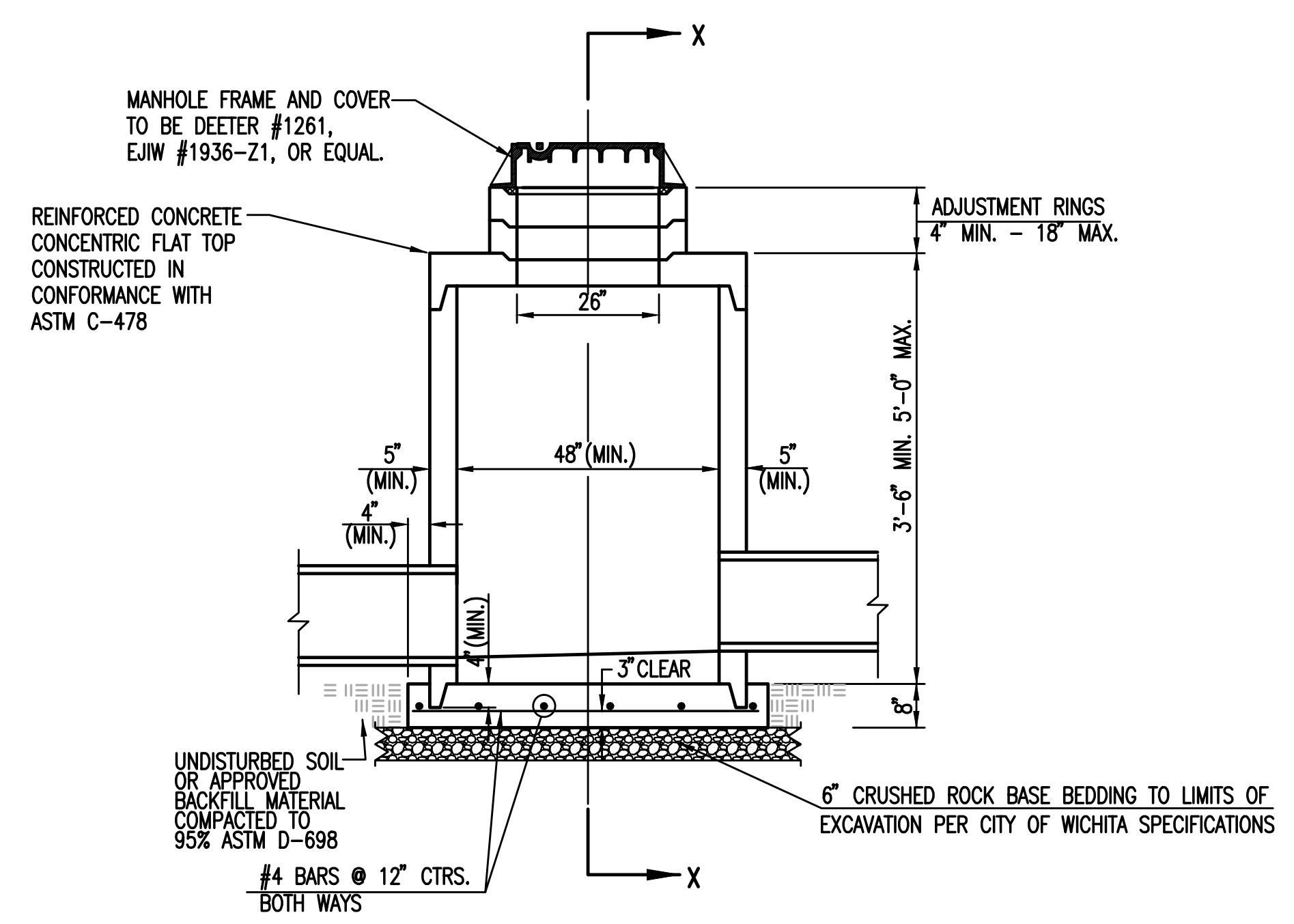
- GENERAL NOTES**
- IF, IN THE OPINION OF THE ENGINEER, THE MANHOLE SUBGRADE APPEARS UNSTABLE, THE CONTRACTOR SHALL HAVE THE OPTION TO COMPACT SUBGRADE AS SHOWN OR INCREASE THE THICKNESS OF THE MANHOLE BASE AS DIRECTED BY THE ENGINEER.
 - STEEL REINFORCING WILL BE REQUIRED IN ALL MANHOLE BASES.
 - ALL MANHOLE CONSTRUCTION SHALL BE WATER TIGHT.
 - TOP OF MANHOLE FLOOR SLAB SHALL BE AT LEAST 3 INCHES BELOW THE FLOW LINE OF THE OUTLET PIPE TO INSURE SUFFICIENT MINIMUM THICKNESS OF SHAPED INVERT.
 - ALL PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO THE LATEST REVISION OF ASTM C-478 AS MODIFIED BY THE SPECIFICATIONS.
 - CONCRETE USED FOR MANHOLE CONSTRUCTION SHALL CONFORM TO CITY OF WICHITA SPECIFICATIONS FOR CONCRETE PAVEMENT MIX.
 - PRECAST MANHOLES SHALL BE SET AT LEAST 4 INCHES INTO MANHOLE BASE.
 - MANHOLES WITH PIPE SIZES 24" AND LARGER SHALL HAVE 5 FOOT INSIDE DIAMETER (MIN.)
 - MANHOLES WITH PRECAST BASES MAY BE USED AT THE CONTRACTORS OPTION. THESE MANHOLES SHALL HAVE AN 8" MINIMUM BASE THICKNESS AND SHALL BE PLACED ON AN 8" MIN. CRUSHED ROCK BASE. PIPES SHALL BE ENCASED WITH CRUSHED ROCK TO AT LEAST 3 FEET FROM THE MANHOLE WALL.
 - CONTRACTOR SHALL REMOVE LIFTING HOOKS AFTER INSTALLATION. RECESSES IN MANHOLE WALL SHALL BE GROUTED FLUSH TO THE MANHOLE WALL WITH HYDRAULIC CEMENT AFTER THE MANHOLE IS IN PLACE. LIFTING HOLES THRU THE MANHOLE WALL WILL NOT BE ACCEPTED.
 - THE ENDS OF ALL PIPES IN MANHOLES SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE MANHOLE WALL.
 - MANHOLE INVERT SHALL BE SHAPED WITH 8 SACK SAND MIX CONCRETE TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE MANHOLE WILL BE SELF CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.
 - MANHOLE FRAME AND COVER TO BE DEETER #1261, EJIW #1936-Z1, OR APPROVED EQUAL, SEE SW-303.
 - FOR FLAT GRATED INLET APPLICATION, GRATE TO BE DEETER #1933, EJIW #1205 MDI, OR APPROVED EQUAL.
 - FOR BEEHIVE GRATE APPLICATION, GRATE TO BE DEETER #4495, EJIW #120545, OR APPROVED EQUAL.



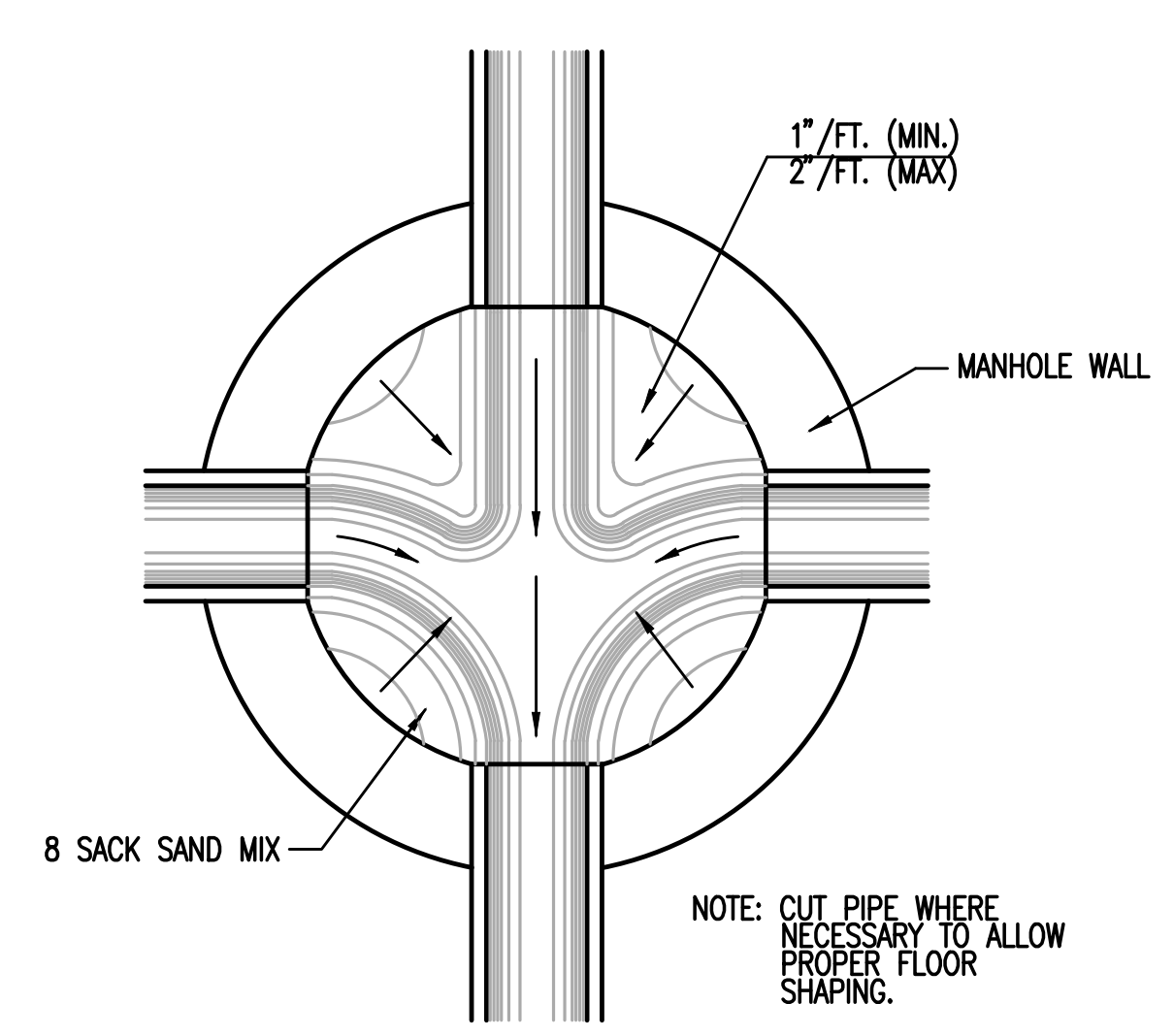
PRECAST STANDARD MANHOLE TYPE "A"



SECTION X-X (TYPICAL)



PRECAST SHALLOW MANHOLE TYPE "B"



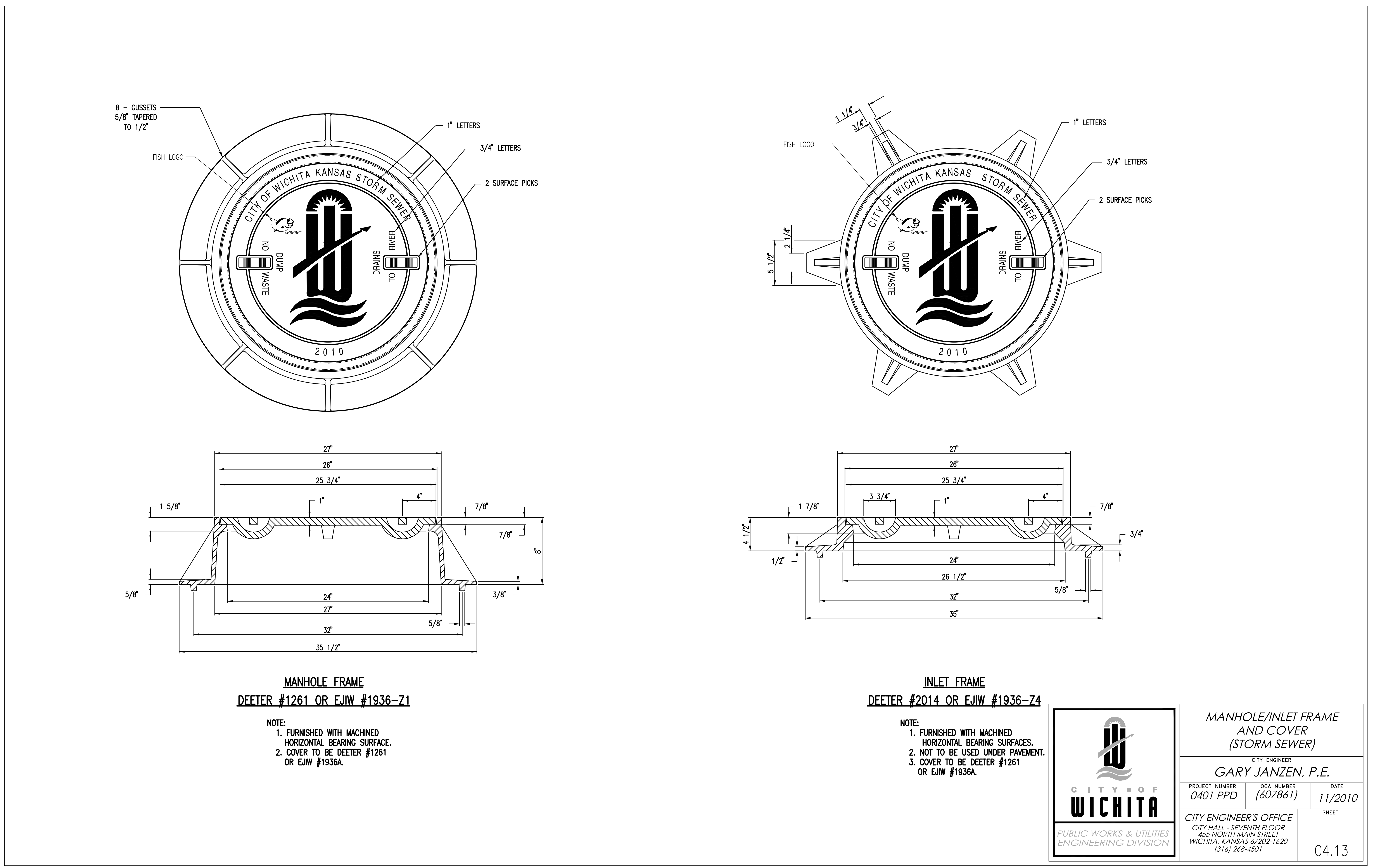
TYPICAL MANHOLE FLOOR SHAPING

REVISED: MARCH 2015

CITY OF WICHITA
PUBLIC WORKS & UTILITIES ENGINEERING DIVISION

PRECAST CONCRETE MANHOLE (STORM SEWER)		
CITY ENGINEER GARY JANZEN, P.E.		
PROJECT NUMBER 0401 PPD	OGA NUMBER (607861)	DATE
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		SHEET C4.12

SW-301

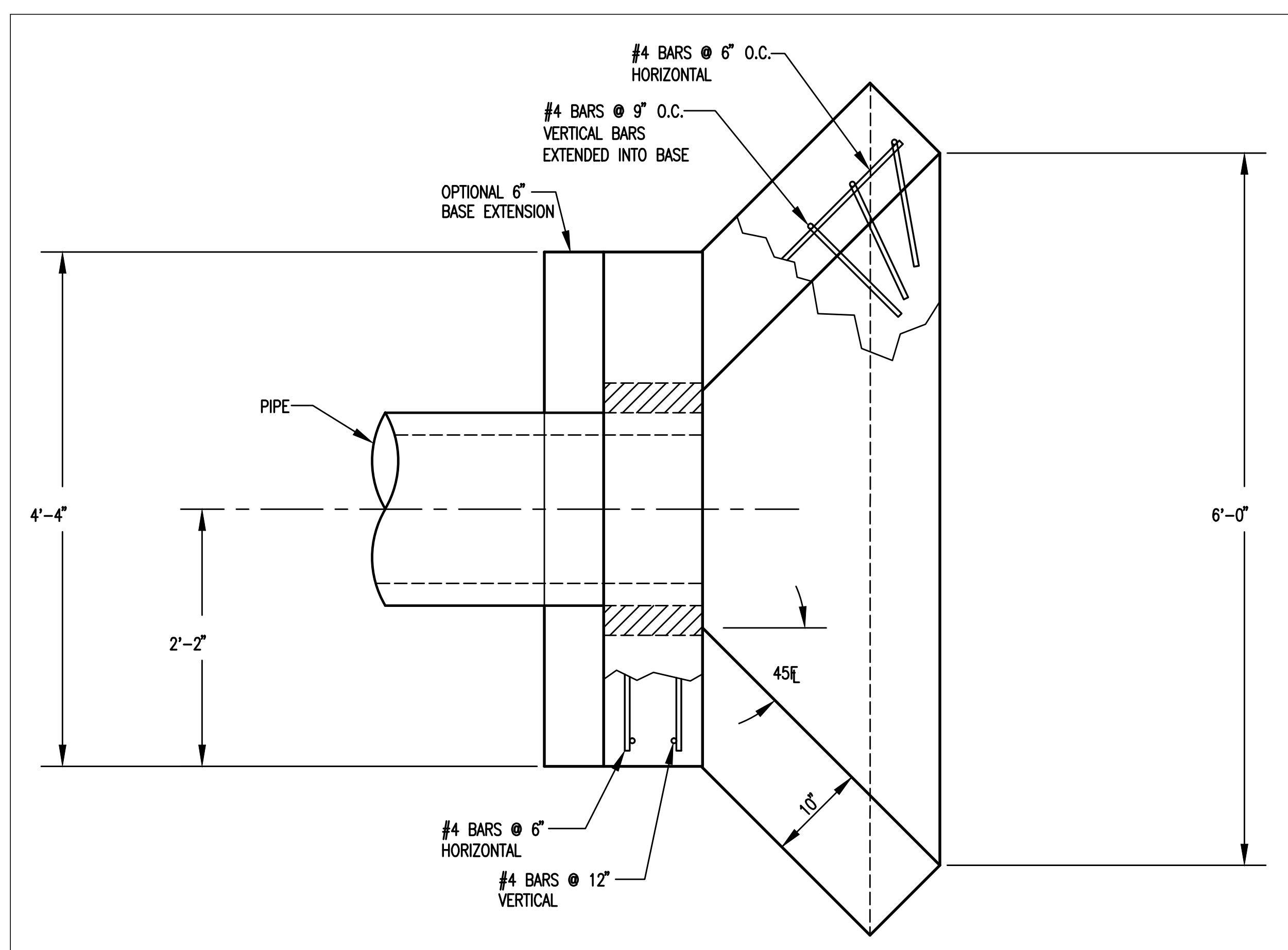


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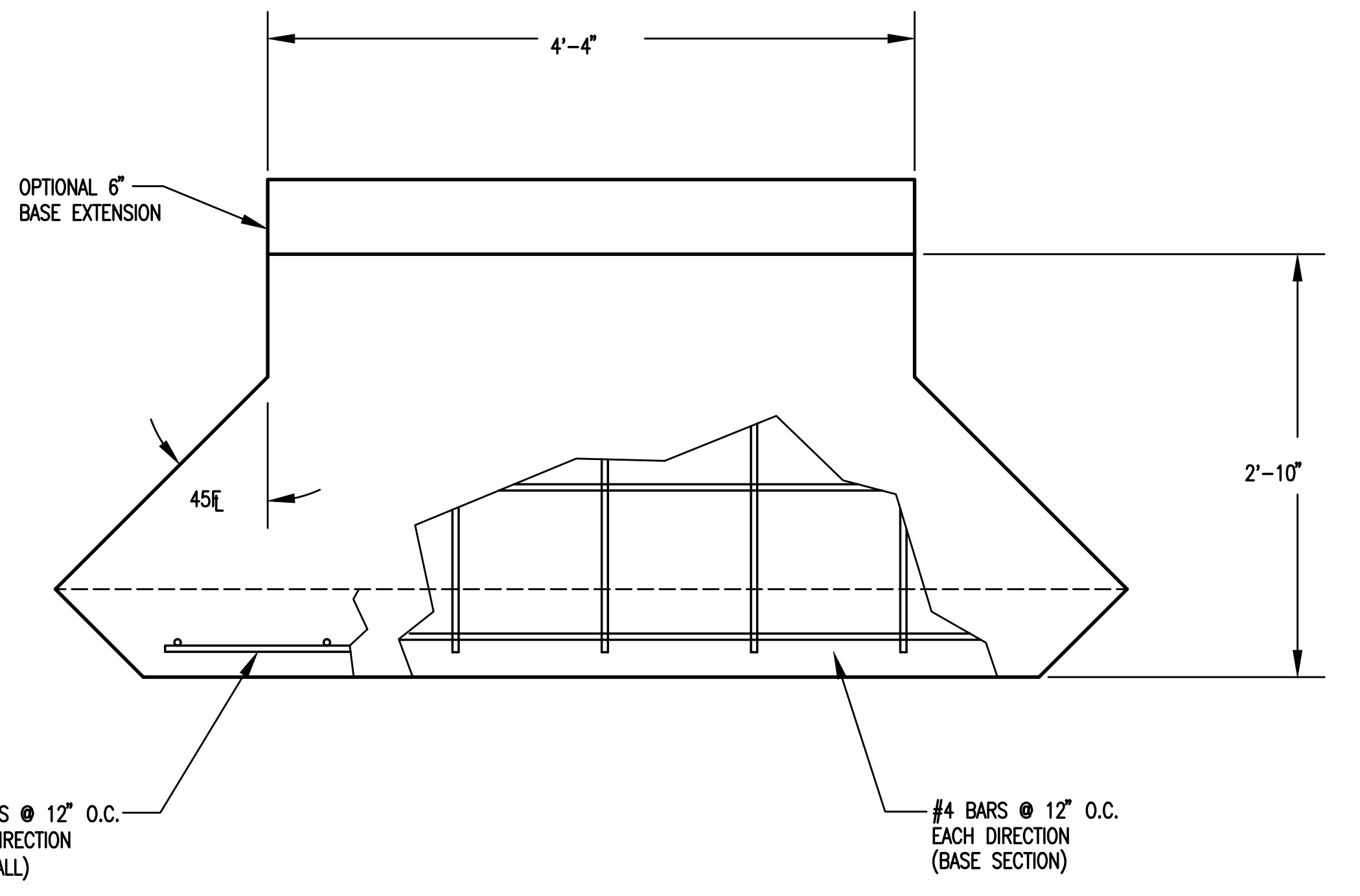
PROFESSIONAL ENGINEERING CONSULTANTS P.A.
 303 SOUTH TOPEKA, WICHITA, KS 67202
 316-262-2981 www.pec.com

MARY R KOCH ARTS CENTER
 1307 N. ROCK ROAD
 WICHITA, KS 67206
 FORMERLY WICHITA CENTER FOR THE ARTS

 CITY OF WICHITA PUBLIC WORKS & UTILITIES ENGINEERING DIVISION	MANHOLE/INLET FRAME AND COVER (STORM SEWER)		
	CITY ENGINEER GARY JANZEN, P.E.		
PROJECT NUMBER 0401 PPD	OGA NUMBER (607861)	DATE 11/2010	SHEET C4.13
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501			

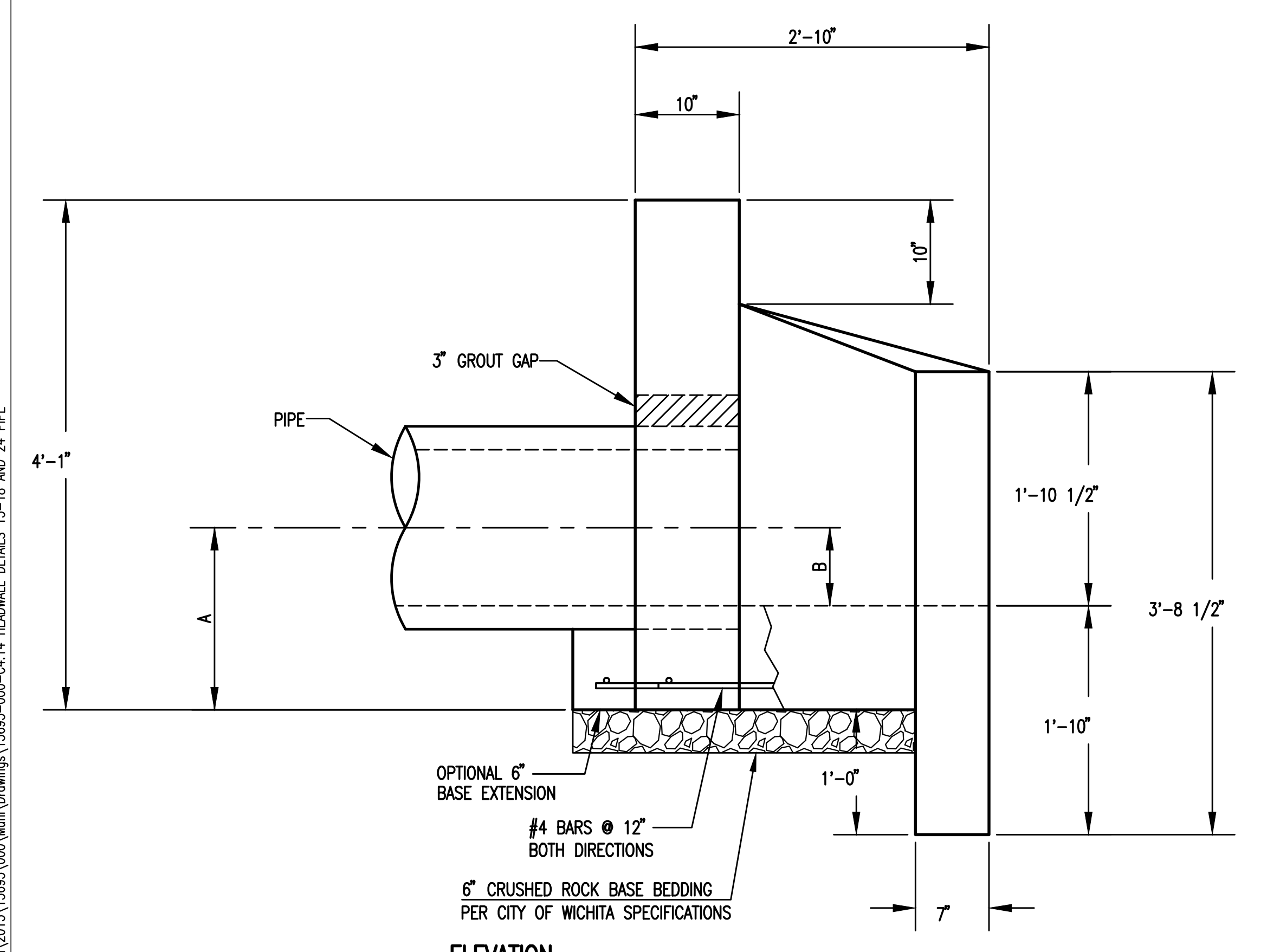


PLAN VIEW

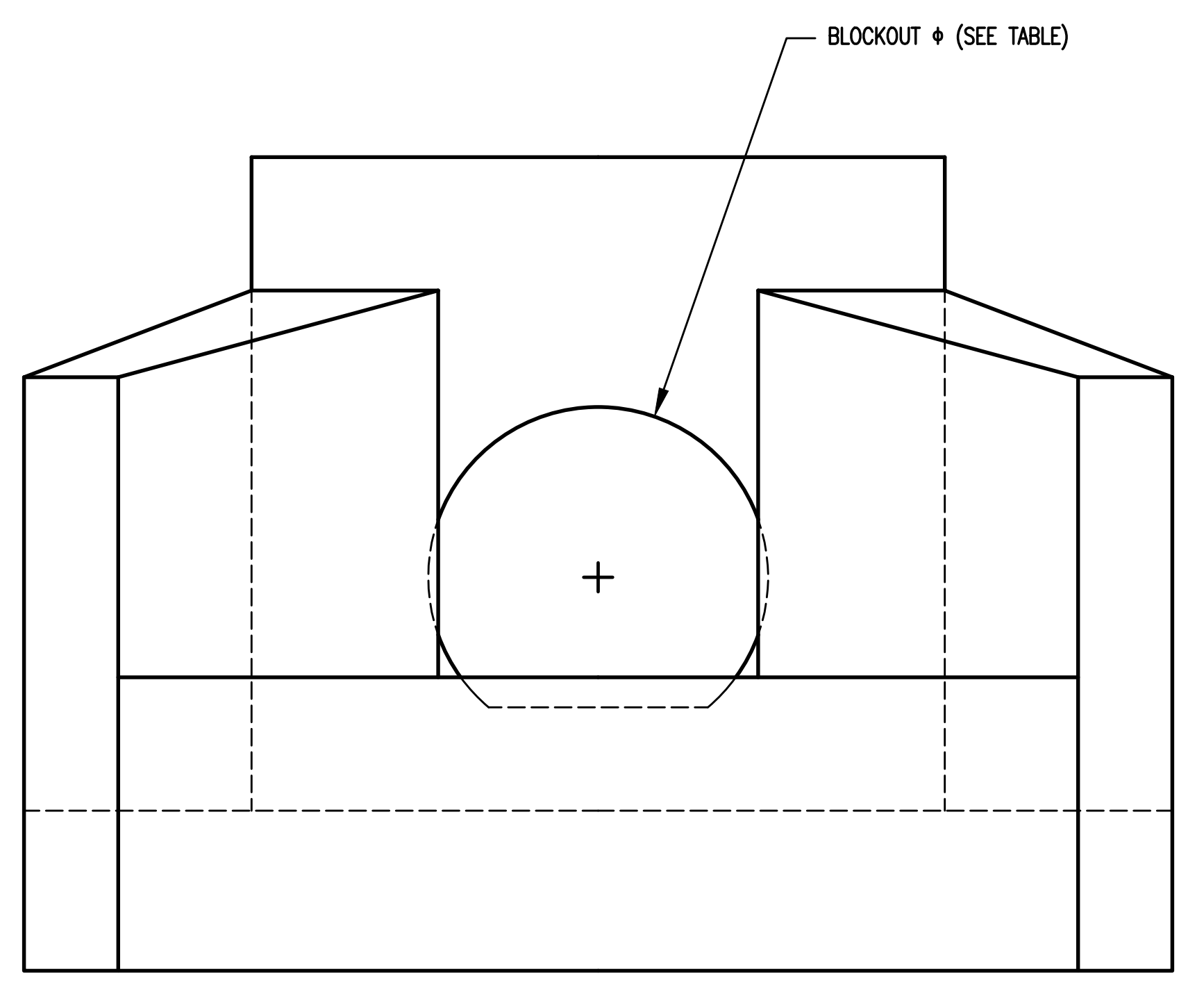


PLAN VIEW
BASE

PIPE Ø	A	B	BLOCKOUT Ø
15"	1'-5 1/2"	7 1/2"	2'-1 1/2"
18"	1'-7"	9"	2'-5"
24"	1'-10"	1'-0"	3'-0"



ELEVATION



FRONT VIEW

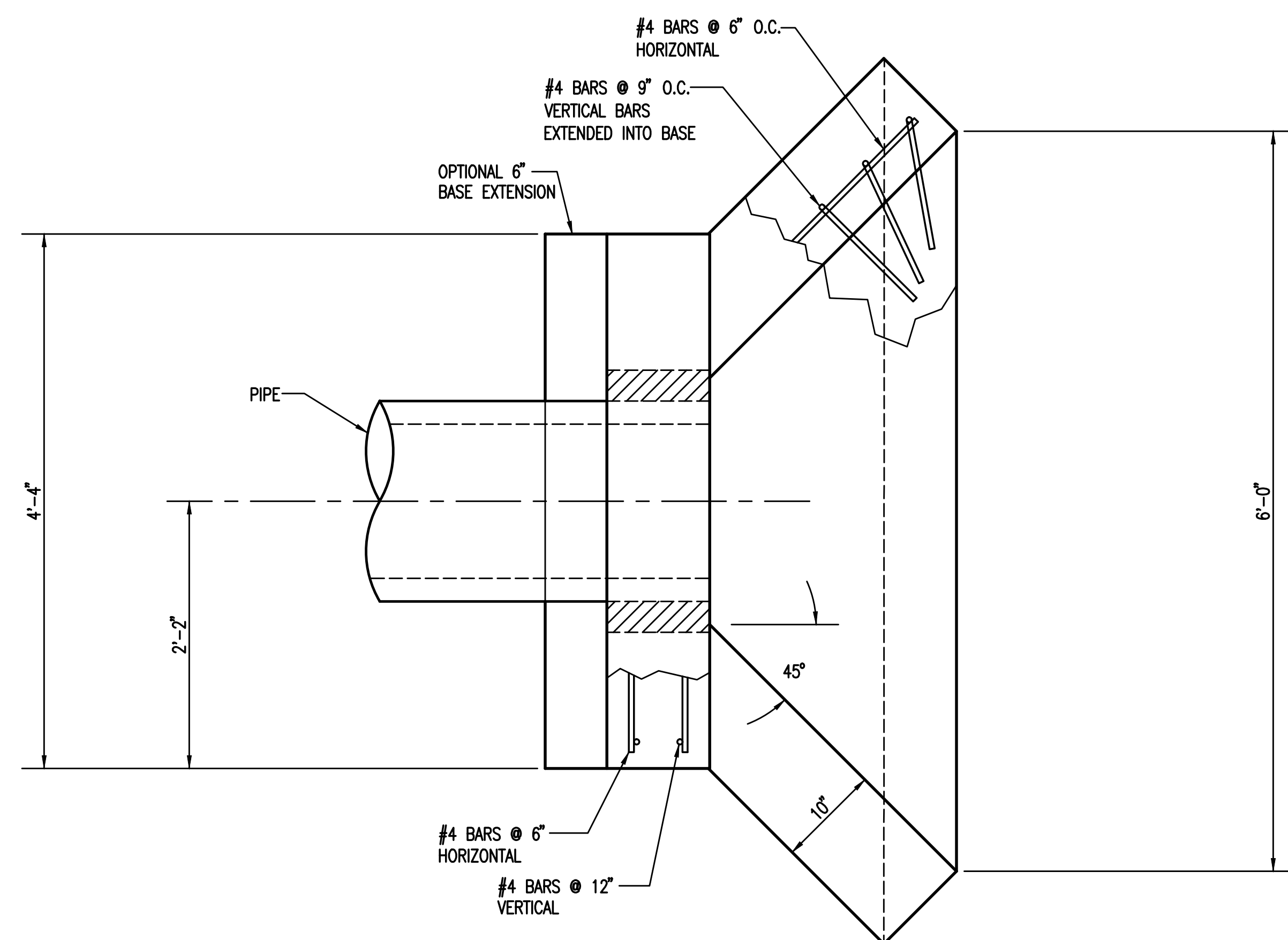
HEADWALLS, AS SHOWN, WILL NOT SUPPORT FLAP GATE.

 CITY OF WICHITA PUBLIC WORKS & UTILITIES ENGINEERING DIVISION	HEADWALL DETAILS FOR 15", 18", AND 24" PIPE		
	CITY ENGINEER GARY JANZEN, P.E.		
	PROJECT NUMBER 0401 PPD	OCA NUMBER (607861)	DATE 11/2010
	CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		SHEET C4.14

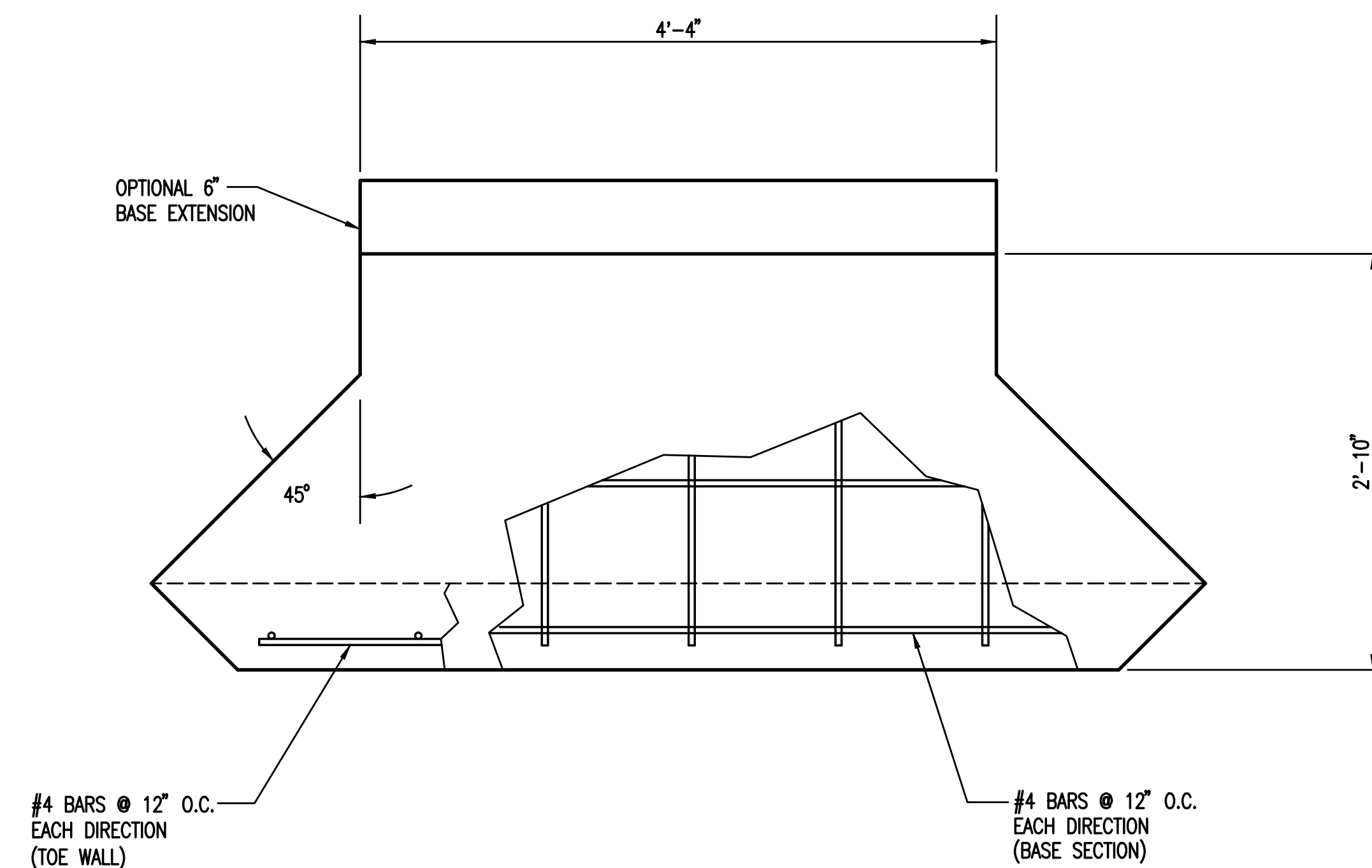
SW-402

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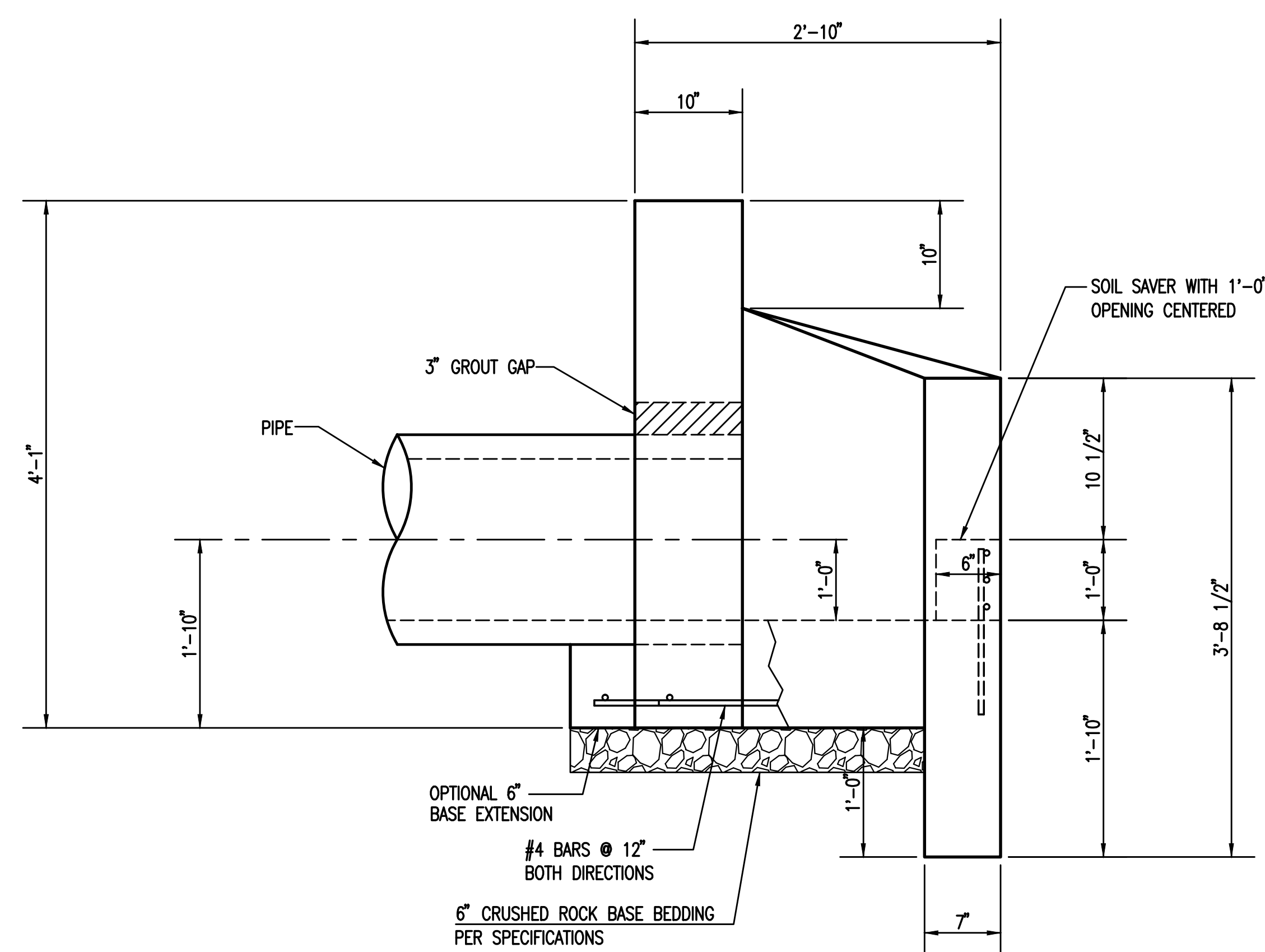
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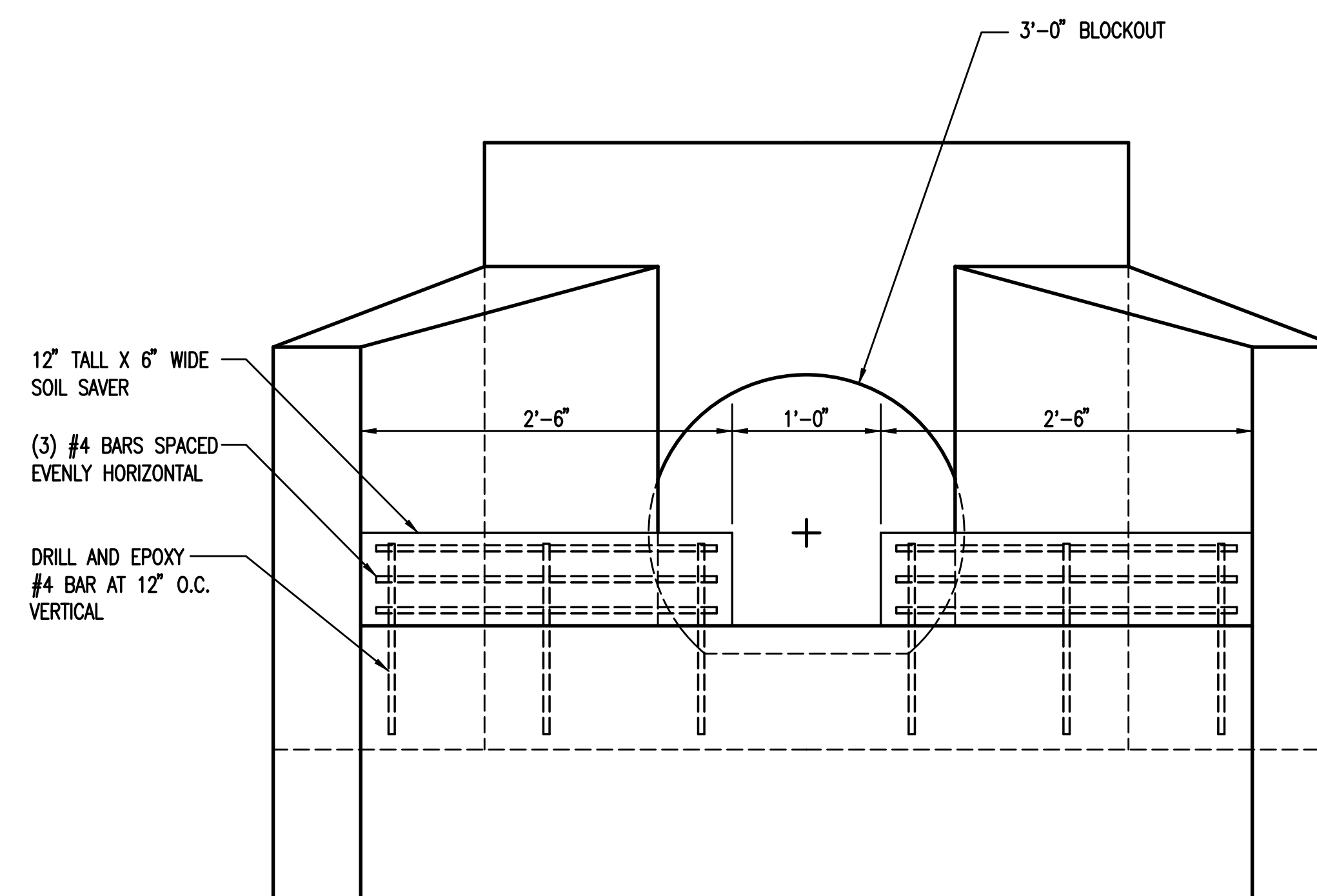
PLAN VIEW



**PLAN VIEW
BASE**

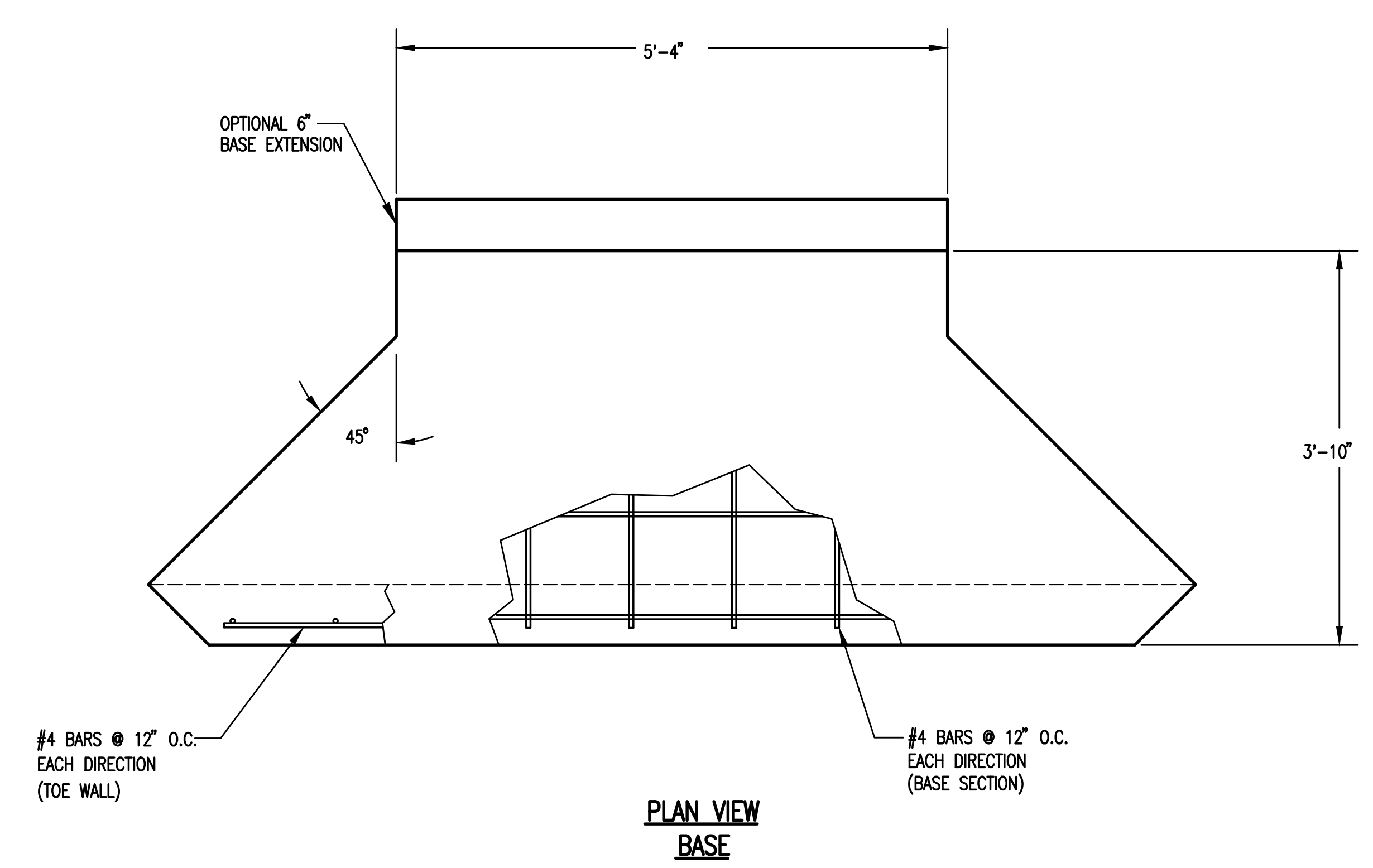
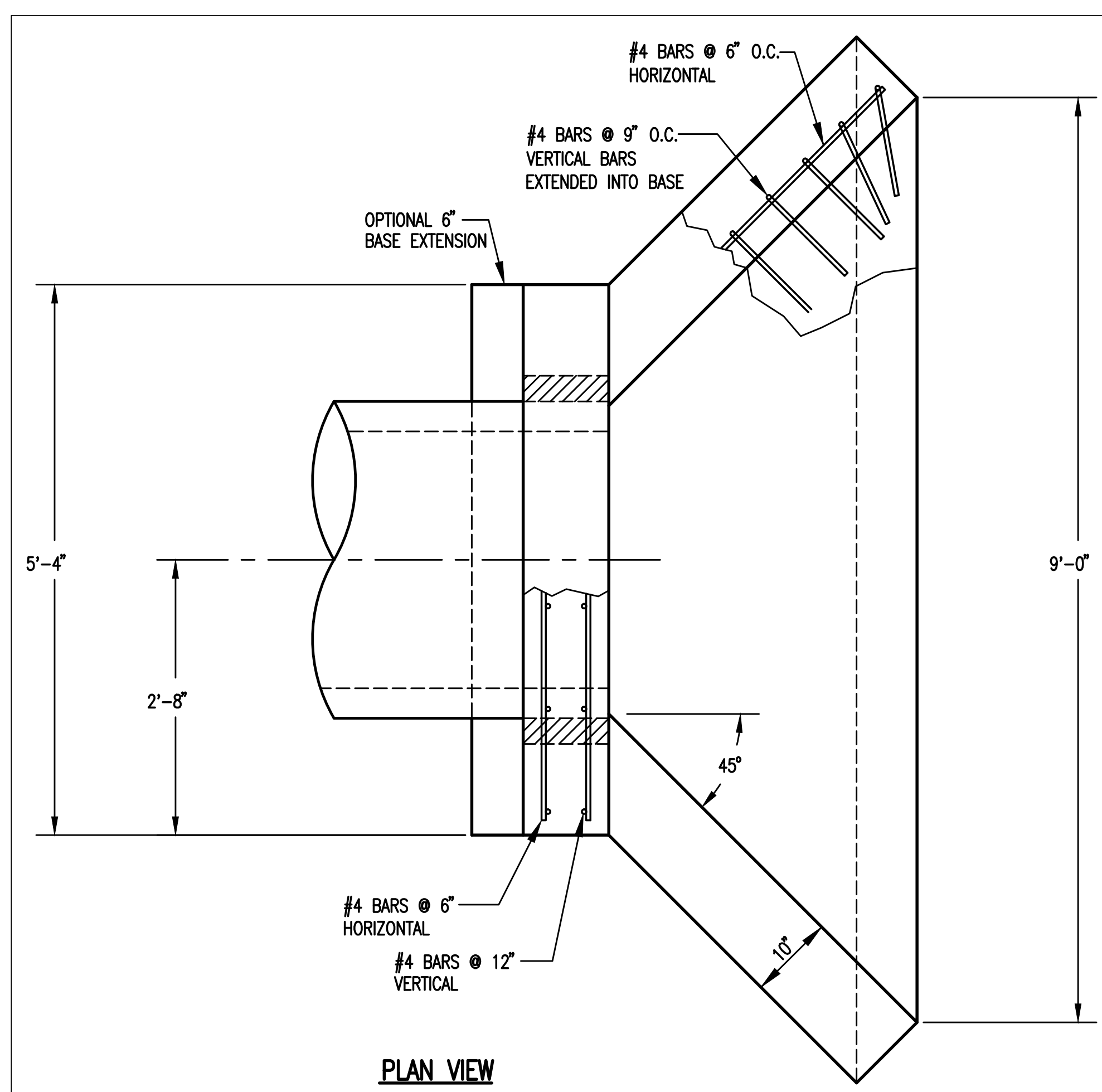


ELEVATION

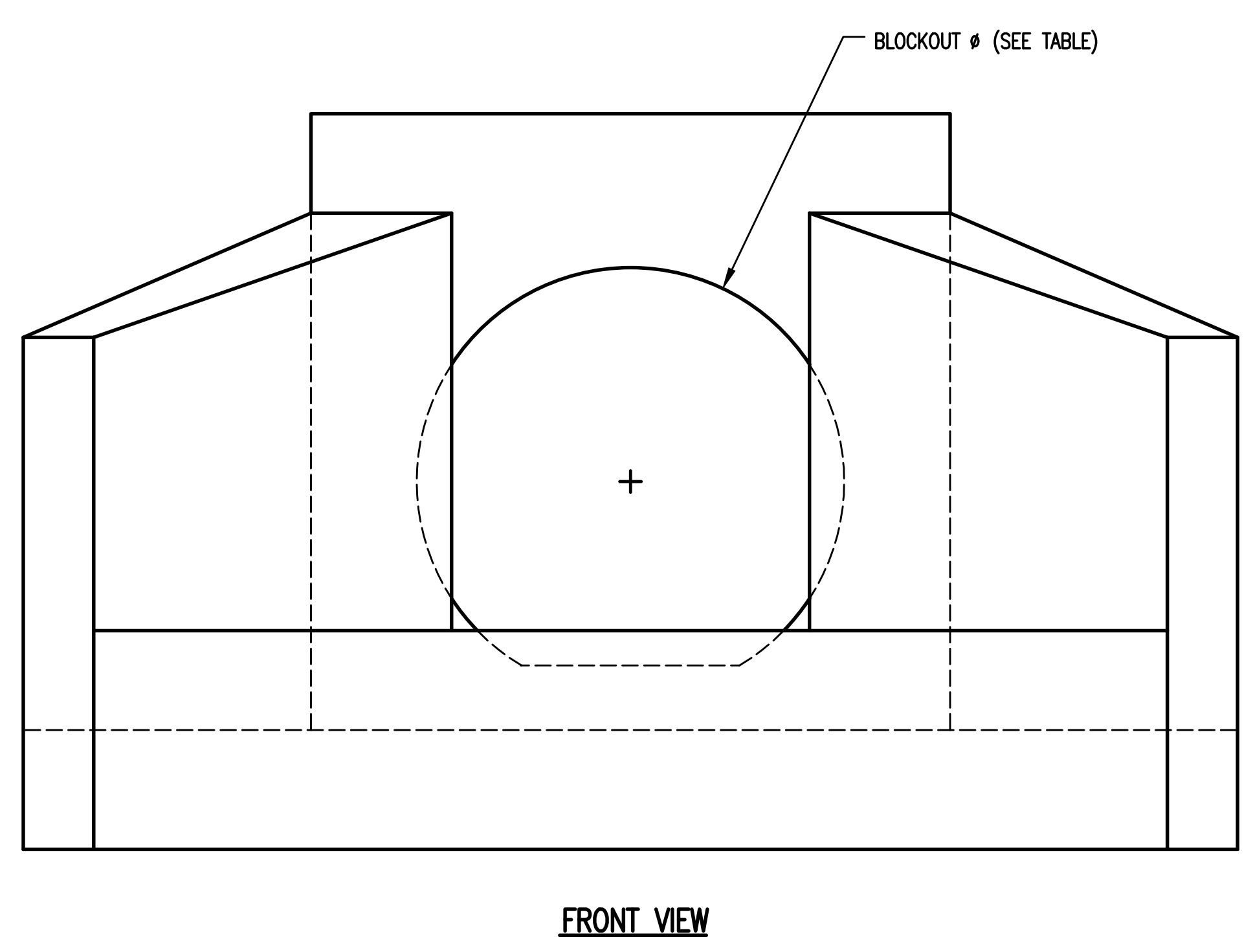
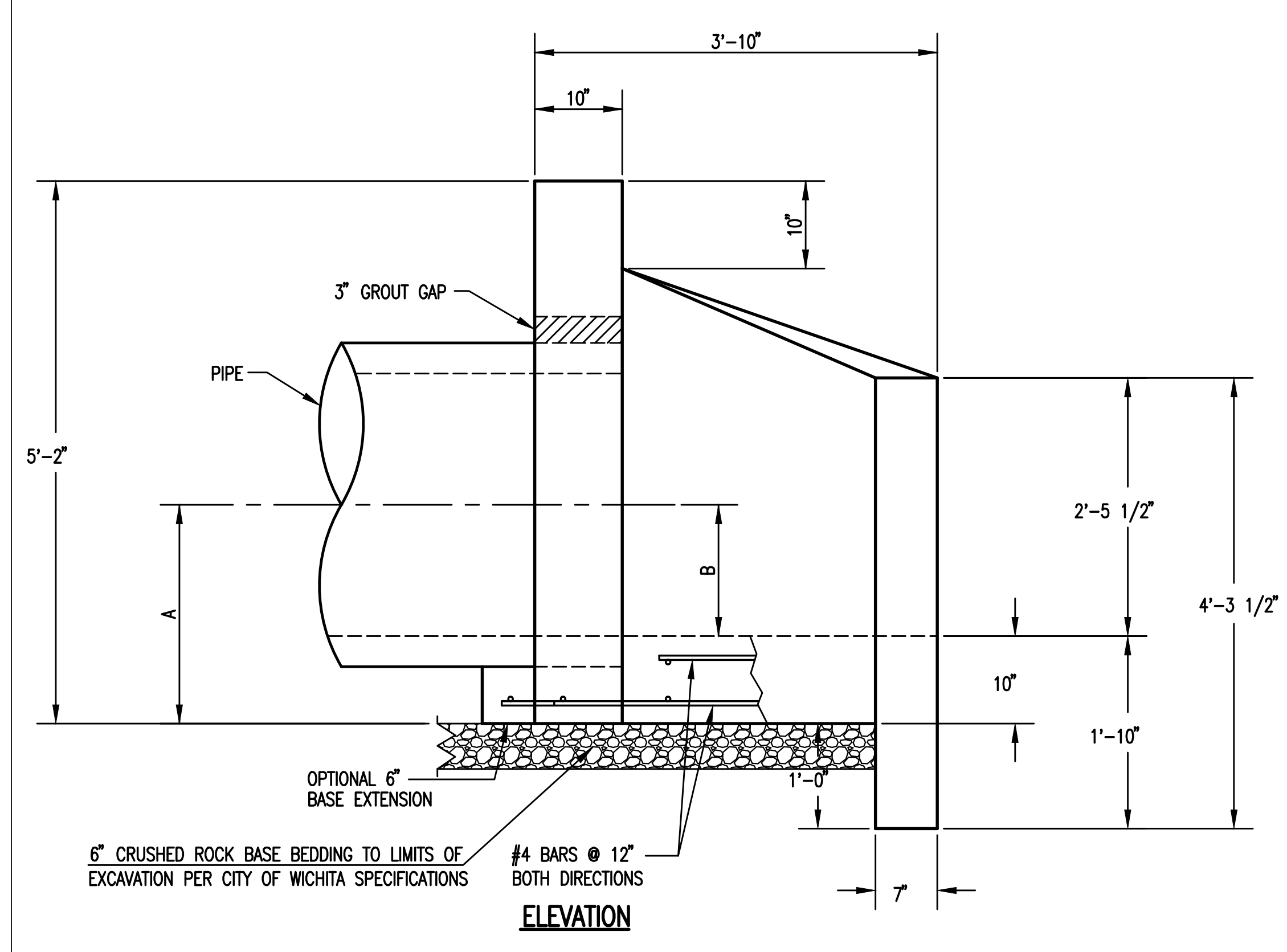


FRONT VIEW

HEADWALLS, AS SHOWN, WILL NOT SUPPORT FLAP GATE.



PIPE Ø	A	B	BLOCKOUT Ø
30"	2'-1"	1'-3"	3'-7"
36"	2'-4"	1'-6"	4'-2"



HEADWALLS, AS SHOWN, WILL NOT SUPPORT FLAP GATE. REVISD: MARCH 2015

CITY OF WICHITA PUBLIC WORKS & UTILITIES ENGINEERING DIVISION		
HEADWALL DETAILS FOR 30" AND 36" PIPE		
CITY ENGINEER GARY JANZEN, P.E.		
PROJECT NUMBER 0401 PPD	OGA NUMBER (607861)	DATE
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 435 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		SHEET C4.16

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