

STORM WATER SEWER IMPROVEMENTS

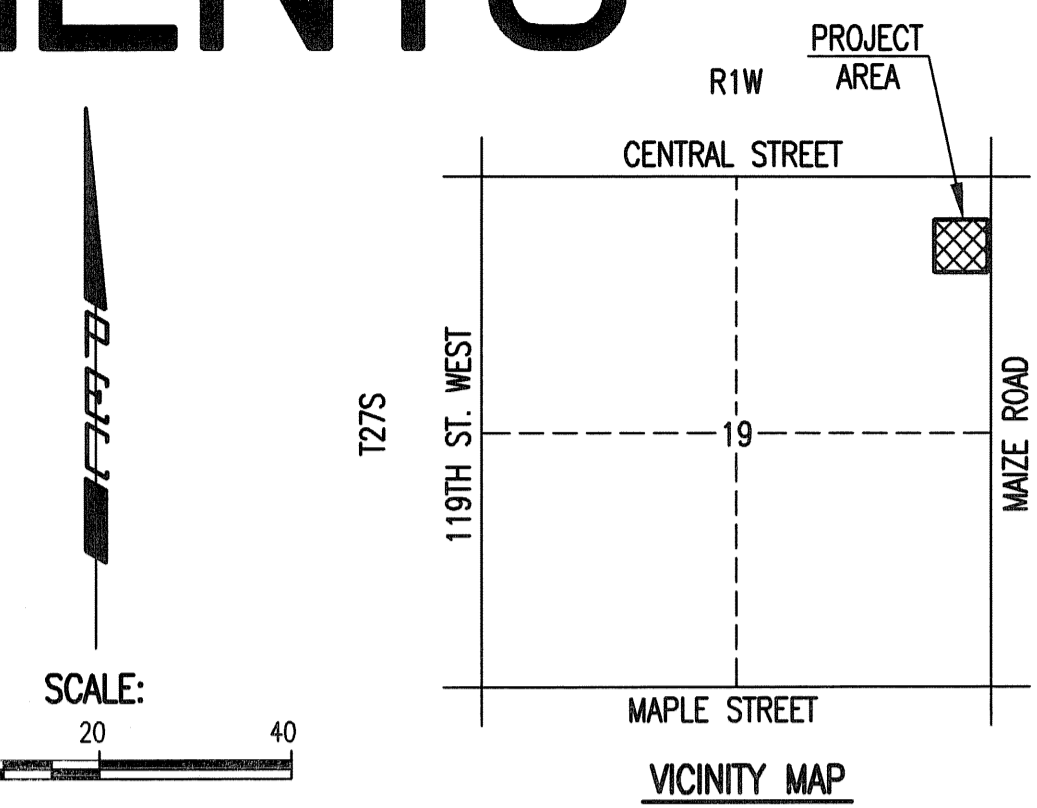
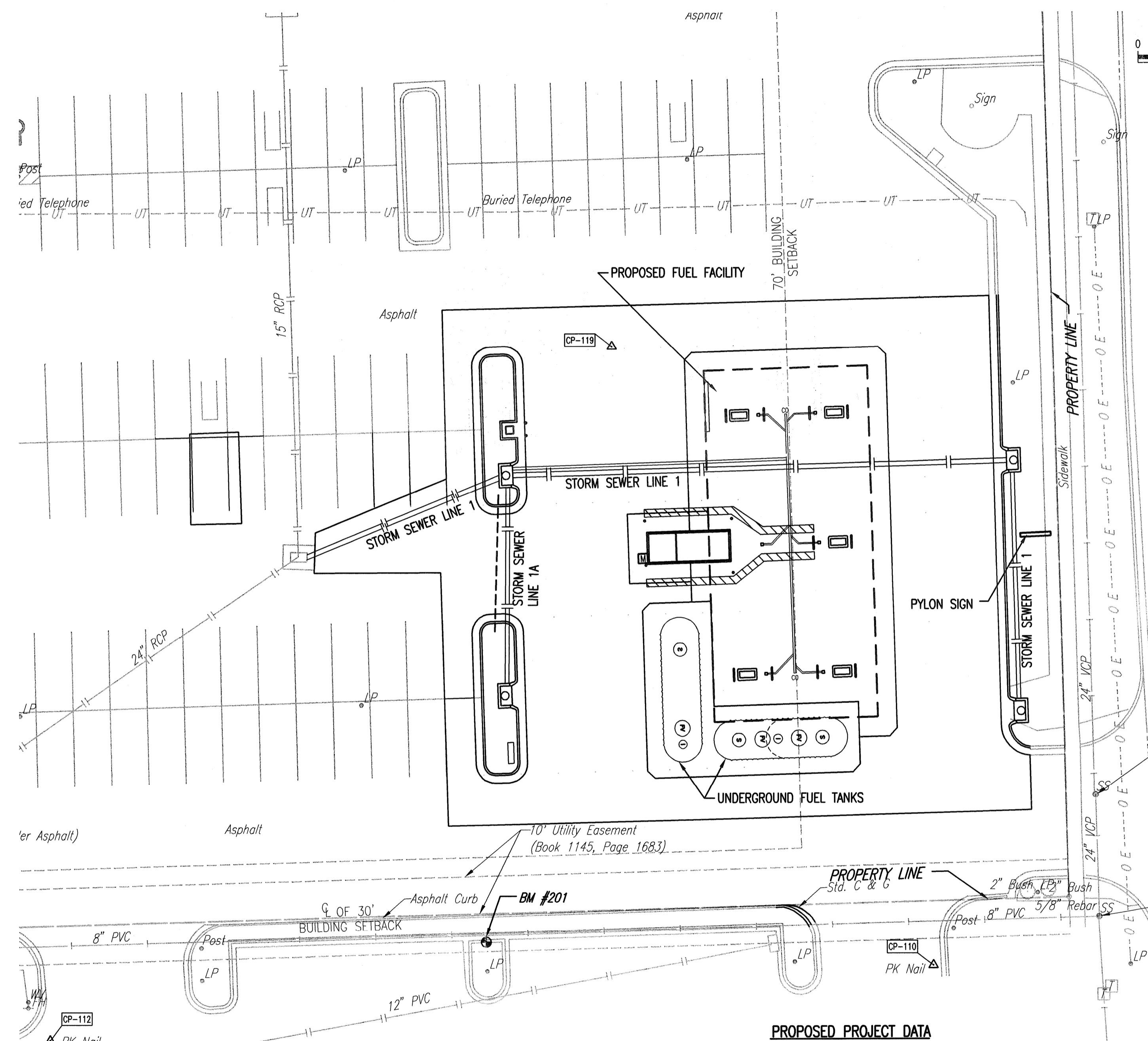
TO SERVE DILLON'S FUEL FACILITY #72 PRIVATE PROJECT NO. 0244 PPD (607861)

GENERAL NOTES

- ALL CONSTRUCTION AND MATERIALS TO COMPLY WITH CITY OF WICHITA SPECIFICATIONS AND STANDARDS.
- CONTRACTOR WILL BE REQUIRED TO PROVIDE A MINIMUM ADVANCE NOTICE OF SEVENTY-TWO (72) HOURS TO UTILITY COMPANIES PRIOR TO STARTING ANY EXCAVATION AS FOLLOWS:
KANSAS ONE-CALL 811
CITY OF WICHITA UTILITY LOCATES WWW.WICHITA.GOV/LOCATE (268-4260)
THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF AN EMERGENCY:
COX COMMUNICATIONS 262-0661
KANSAS GAS SERVICE 1(888)-482-4950
WESTAR ENERGY 383-8600
AT&T 1(800)-870-8390
CITY OF WICHITA WATER DEPARTMENT 262-6000
CITY OF WICHITA SEWER MAINTENANCE 262-6000
- ALL ELEVATIONS SHOWN ARE NAVD88 DATUM.
- THE CONTRACTOR SHALL LIMIT THE EXTENT OF TRENCH TO REMAIN OPEN OVERNIGHT AND WEEKENDS TO LESS THAN 50 FEET.
- UNDERGROUND UTILITY SERVICE LINES AND OVERHEAD UTILITY POLE LINES 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 LOCATIONS, AS SHOWN ON THE PLANS, REPRESENT THE BEST INFORMATION OBTAINABLE FOR THE DESIGN. THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND EXISTING UTILITIES WITHIN THE RIGHT-OF-WAY WHICH DO NOT CONFLICT WITH PROPOSED 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.
- CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM ALL MANHOLE COVERS UNLESS OTHERWISE NOTED ON THE GRADING PLAN.
- RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES INCLUDING ANY TREES REMOVED, TREE TRIMMINGS, AND EXCESS EXCAVATION WHICH IS TO BE WASTED SHALL BE DISPOSED OF ON SITES PROVIDED BY THE CONTRACTOR. THESE SITES SHALL ALSO 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 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 MAY REQUIRE ARCHAEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED DISPOSAL LOCATION.
- ALL APPROVED EXCESS EXCAVATION SHALL BE WASTED OFF-SITE AT NO ADDITIONAL COST TO THE OWNER. STOCKPILE DISPOSAL SHALL BE IN ACCORDANCE WITH GENERAL NOTE NO. 8 ABOVE.
- ALL LAWN/TURF AREAS DISTURBED BY CONSTRUCTION OF THE PROPOSED IMPROVEMENTS SHALL BE RESTORED IN ACCORDANCE WITH THE LANDSCAPE PLAN. RESTORATION OF DISTURBED AREAS SHALL INCLUDE, BUT NOT BE LIMITED TO, TOP SOIL PREPARATION, SEEDING, MULCH, AND/OR RESEEDING. ALL SEEDING/SODDING WORK SHALL BE IN ACCORDANCE WITH THE CITY OF WICHITA STANDARD SPECIFICATIONS AND THE CITY OF WICHITA ADMINISTRATIVE REGULATION NO. AR6.5 WHICH GOVERNS CLEANUP AND RESTORATION OR REPLACEMENT FOLLOWING CONSTRUCTION.
- THE CONTRACTOR SHALL SEED ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WITH TEMPORARY RYE GRASS. RYE GRASS SEED SHALL BE PLANTED AT A MINIMUM RATE OF SIX (6) POUNDS PER ONE THOUSAND (1,000) SQUARE FEET. THIS TEMPORARY SEEDING MAY BE OMITTED ONLY IF OTHER SEEDING IS REQUIRED IN ACCORDANCE WITH GENERAL NOTE NO. 10 ABOVE. TEMPORARY SEEDING OR PERMANENT SEEDING/SODDING SHALL BE APPLIED WITHIN 14 DAYS AFTER THE AREA HAS BEEN DISTURBED.
- THE CONTRACTOR SHALL AVOID REMOVAL OR TRIMMING OF ANY TREES OR SHRUBS WHERE POSSIBLE. WHERE THE CONTRACTOR BELIEVES THE REMOVAL OR TRIMMING IS UNAVOIDABLE, HE SHALL COORDINATE SUCH WORK WITH THE ENGINEER.
- THE CONTRACTOR SHALL GIVE ALL PROPERTY OWNERS AND/OR TENANTS OF DEVELOPED PROPERTY ADJACENT TO THE CONSTRUCTION OF THIS PROJECT A MINIMUM OF TEN (10) DAYS ADVANCE NOTICE PRIOR TO START OF CONSTRUCTION.
- THE CONTRACTOR IS REQUIRED TO MAINTAIN CONTINUOUS FLOW OF SEWAGE IN EXISTING MAINS AT ALL TIMES.
- THE CONTRACTOR SHALL NOT BURY MANHOLES THAT HAVE RIM ELEVATIONS WHICH ARE LOWER THAN EXISTING GROUND AT THE MANHOLE. THE GROUND AROUND SUCH MANHOLES AND ALONG THE SEWER ALIGNMENT SHALL BE BACKFILLED TO THE APPROXIMATE ELEVATION OF THE PROPOSED GROUND ELEVATION SHOWN ON THE PLAN/PROFILE SHEETS. THE CONTRACTOR SHALL PROVIDE DRAINAGE AWAY FROM THESE MANHOLES AND SEWER LINES BY CONSTRUCTION OF TEMPORARY DITCHES OR SLOPING THE GROUND AS REQUIRED. ALL COSTS FOR THIS WORK SHALL BE CONSIDERED SUBSIDIARY TO THE INSTALLED BID PRICE FOR MANHOLES OR PIPE.
- THE CONTRACTOR SHALL PROVIDE MOUNDING EARTH AT MANHOLES AND CLEANOUTS THAT HAVE TOP ELEVATIONS GREATER THAN 1 FOOT ABOVE EXISTING GRADE, AS SHOWN ON THE PLANS. COSTS FOR MOUNDING SHALL BE CONSIDERED SUBSIDIARY TO THE PRICE BID PER EACH FOR MANHOLES.
- INTERURBAN TRAFFIC GENERATED OUTSIDE THE PROJECT AREA AND LOCAL BUSINESS OR RESIDENTIAL TRAFFIC GENERATED WITHIN THE PROJECT AREA ARE TO BE CARRIED THROUGH CONSTRUCTION AS FURTHER PROMULGATED BY PROJECT SPECIAL PROVISIONS. THE CONTRACTOR SHALL UTILIZE BARRICADES, SIGNS, GUARDS, AND FLAGMEN IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- 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 GENERAL 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.
- EACH BIDDER SHALL VISIT THE SITE OF THE PROJECT BEFORE SUBMITTING THE PROPOSAL FOR THIS WORK SO THAT HE WILL BE FULLY INFORMED OF THE EXISTING FIELD CONDITIONS AND THE OBSTACLES WHICH MIGHT BE ENCOUNTERED. UPON AWARD OF THE CONTRACT THE CONTRACTOR WILL NOT BE GRANTED ANY ADDITIONAL COMPENSATION WITH REGARD TO TIME AND MONEY FOR CONDITIONS THAT MAY HAVE BEEN EVALUATED DURING ANY INSPECTION OF THE SITE.

SITE BENCHMARKS

- BM-201**
N: 1,687,346.9590, E: 1,612,227.8730
Chiseled Square, top of curb, on south side of drainage flume, center of north curb of curb island with light pole for Walgreens parking lot, 7 feet south of south property line of Dillons property, 209 feet east of the east face of building for Dillons Store, midway between drive entrances from Dillons property to Walgreens property.
Elevation = 1325.71 NAVD88
- BM-202**
N: 1,687,622.9970, E: 1,612,329.3920
Chiseled Square, top of curb, at west nose of curbing on north side of east main entrance to Dillons parking lot.
Elevation = 1327.11 NAVD88
- BM-203 (CP-203)**
N: 1,687,661.8010, E: 1,612,043.8330
Chiseled Cross in sidewalk, 30 feet south of north main entrance to Dillons building, 3 feet west of back of curb in front of Dillons building.
Elevation = 1329.01 NAVD88



APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA

Engineering: *Rebecca Dill* 4/2/14
Stormwater: *Jim Hurd* 6-2-14

NOTE TO CONTRACTORS

Inspection and testing for this project are 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.

Stormwater Water Certification:
These construction plans were prepared in accordance with the current Storm Water Management Regulations as set forth in the City of Wichita's Storm Water Management Ordinance 16.32 and the policies/guidelines presented in the Wichita/Sedgwick county Storm Water Manual.

Disturbed Area = 0.50 ac.
Water Quality Treatment: Provided by an existing pond to the West in the Central-Maize 2nd Addition Subdivision
Downstream Channel Protection: Provided by pond

INDEX OF SHEETS

SHEET NO. C2.1	TITLE SHEET AND GENERAL NOTES
SHEET NO. C2.2	SWS PLAN AND PROFILE
SHEET NO. C2.3	SWS PLAN AND PROFILE
SHEET NO. C2.4	STANDARD TYPE 1A CURB INLET DETAILS
SHEET NO. C2.4.1	MISCELLANEOUS DETAILS - STORM SEWER
SHEET NO. C2.5	MANHOLE INLET FRAME AND COVER DETAILS
SHEET NO. C2.6	EROSION CONTROL PLAN
SHEET NO. C2.7-2.09	EROSION CONTROL DETAILS
SHEET NO. C2.10	PLAT
SHEET NO. C1.5	GRADING PLAN

PROPOSED PROJECT DATA

TOTAL DISTURBED AREA = 21,877 SF
EXISTING IMPERVIOUS = 21,046 SF
EXISTING PERVIOUS = 831 SF

REDEVELOPED IMPERVIOUS = 20,703 SF
REDEVELOPED PERVIOUS = 1,174 SF

WATER QUALITY VOLUME AND DETENTION REQUIREMENTS PROVIDED BY EXISTING POND (3.96 AC) ON WEST SIDE OF PROPERTY.

JUNE 2014
PLANS PREPARED BY
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

AS BUILTS

Contractor: Ewertz Excavation 10/21/2014
Project Inspector: Tom Jones
KEMILLER ENGINEERING P.A.
117 E. Lewis, Wichita, KS 67202 (316)284-9242

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305 SOUTH DORSEY WICHITA, KS 67202 316-262-2691 www.pcc.com

PEC
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.

The Kroger Co.
Supermarket
Petroleum Group

Dillons

Denver, CO 80239
Phone (303) 716-5991
Fax (303) 716-5865

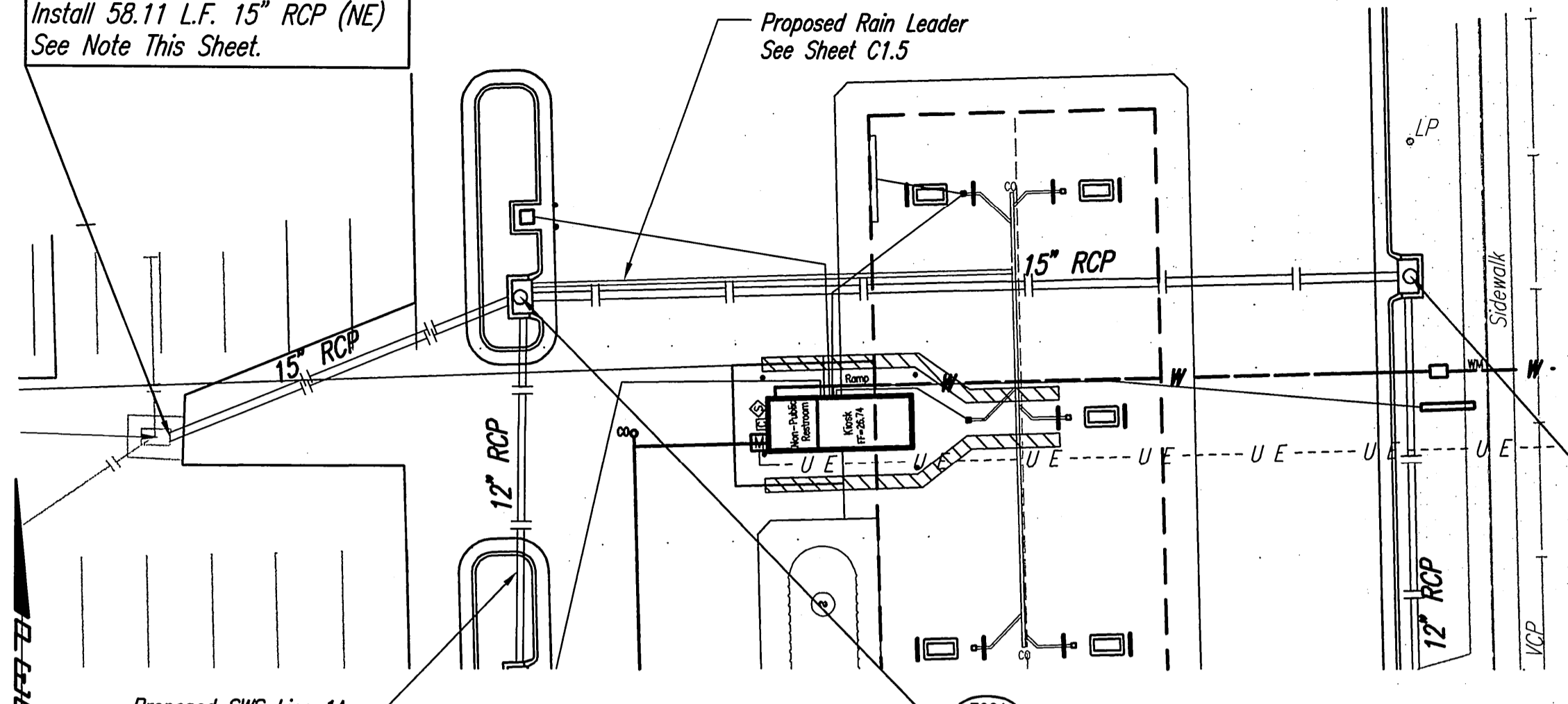
7581
CHASLES S. BROWN
LICENSED PROFESSIONAL ENGINEER
KANSAS
6-2-14

NO.	DESCRIPTION	DATE

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Designed By: CSB
Drawn By: CAE
Checked By: IDK
Date: JUNE 2, 2014
Scale: 1:20
Disk File:
Model:
Address: CENTRAL & MAIZE
DILLONS #72 WICHITA, KS
PPD TITLE SHEET
Drawing No.: C2.1

Saved 06-02-2014 9:52:39 AM by CAE
Plot Scale: 1:1 06-02-2014 9:53:41 AM by CHRIS LEPP
C:\Users\66942\OneDrive\66942-072B-C2.1-PPD TITLE SHEET

7000
Sta. 10+00.00 SWS Line No. 1
Existing SDA #14
L=4'-0", W=2'-0"
Top Elev.=1321.39
Install 58.11 L.F. 15" RCP (NE)
See Note This Sheet.



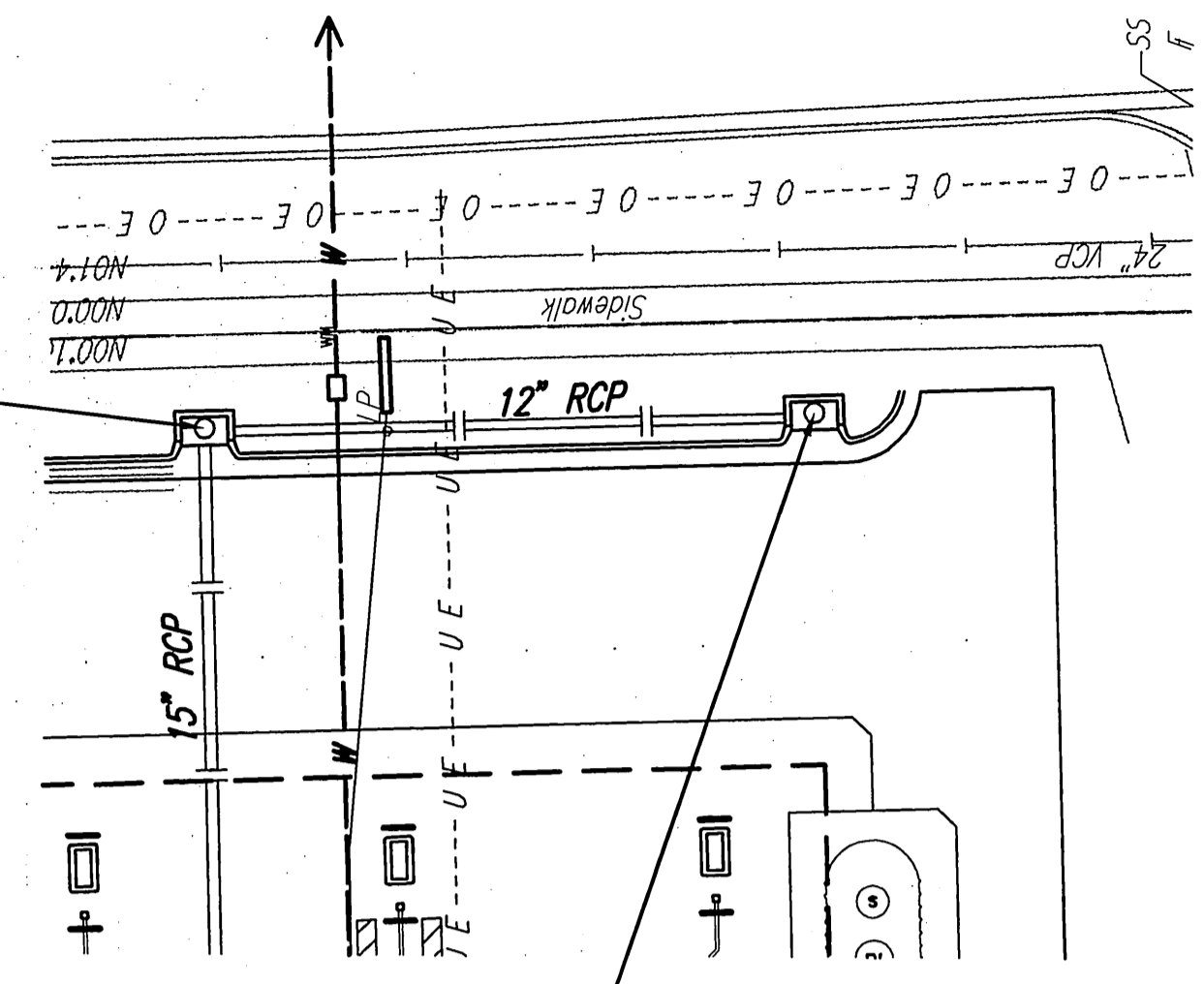
Proposed SWS Line 1A
See Sheet C2.3

Proposed Rain Leader
See Sheet C1.5

7001
Sta. 10+58.11 SWS Line No. 1=
Sta. 10+00.00 SWS Line No. 1A
Const. Std. Type 1A Curb Inlet with Snout
L=6'-0", W=4'-0"
Top Elev.=1326.90
Install 130.69 L.F. 15" RCP (E)
Install 57.72 L.F. 12" RCP (S)
See Sheet No. C2.4 & C2.4.1.

7002
Sta. 11+88.80 SWS Line No. 1
Const. Std. Type 1A Curb Inlet
L=6'-0", W=4'-0"
Top Elev.=1325.86
Install 65.65 L.F. 12" RCP (S)
See Sheet No. C2.4.
Match Point. For continuation see this sheet.

7002
Sta. 11+88.80 SWS Line No. 1
Std. Type 1A Curb Inlet
Match Point. For continuation see this sheet.



7003
Sta. 12+54.45 SWS Line No. 1
Const. Std. Type 1A Curb Inlet
L=6'-0", W=4'-0"
Top Elev.=1324.75
See Sheet No. C2.4.

COORDINATE LIST		
POINT	NORTH	EAST
7000	1,687,447.9875	1,612,180.7520
7001	1,687,469.3548	1,612,233.1250
7002	1,687,473.1943	1,612,366.7073
7003	1,687,407.5813	1,612,368.6518

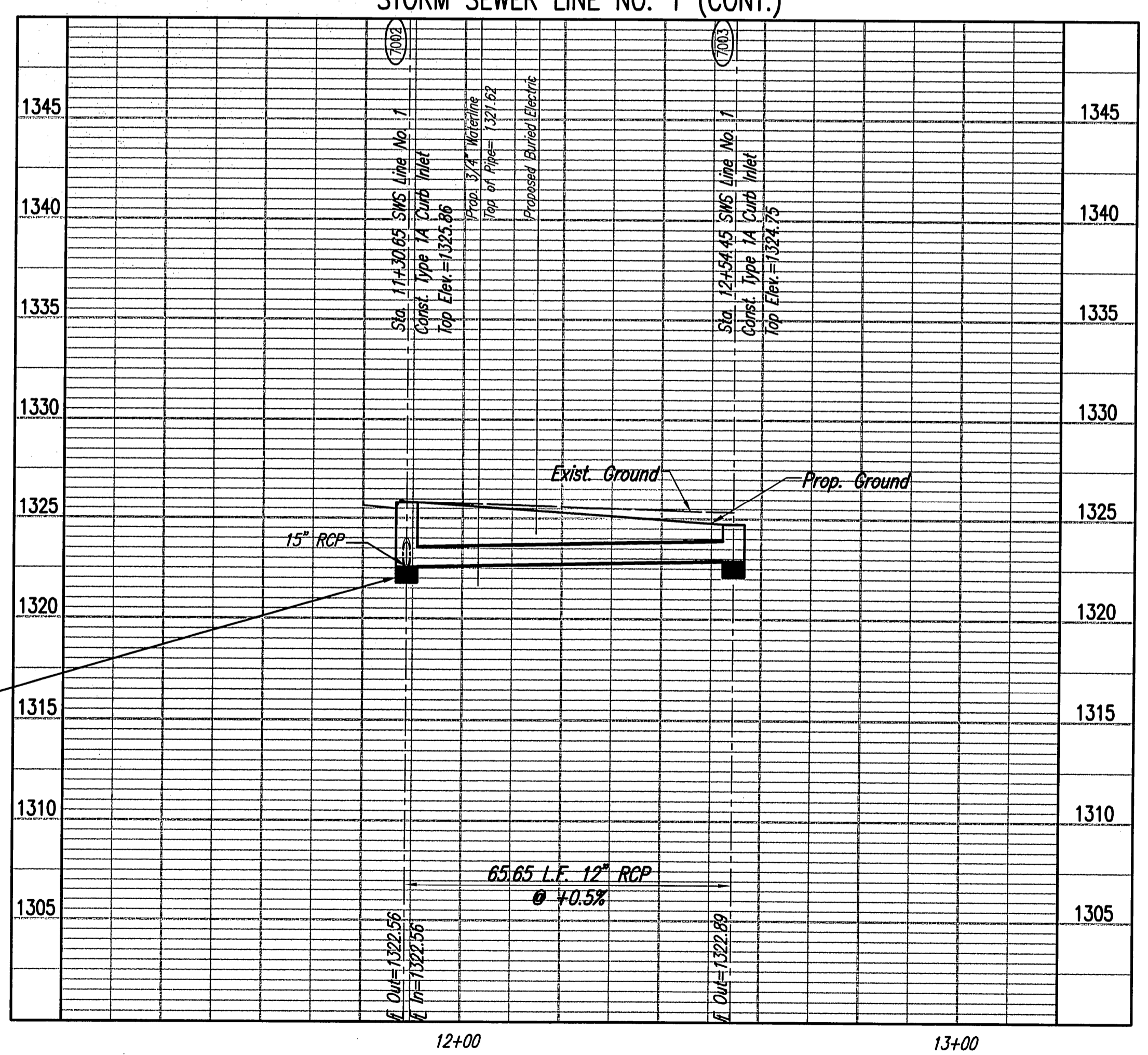
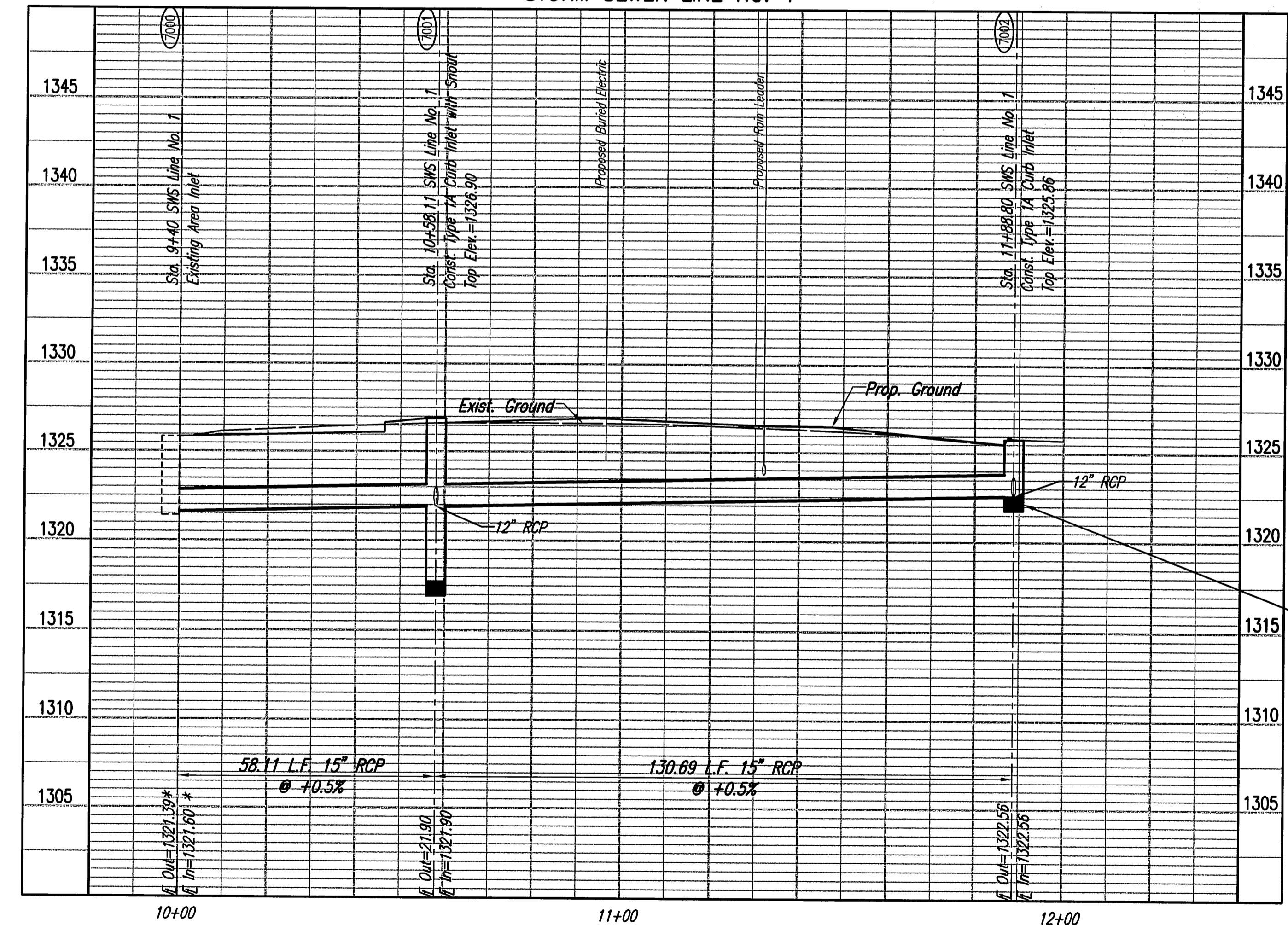
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SCALE:
PLAN: LAT. & LONG. 0 20 40
PROFILE: HORIZ. SAME AS ABOVE
VERT. 0 5

SCALE:
PLAN: LAT. & LONG. 0 20 40
PROFILE: HORIZ. SAME AS ABOVE
VERT. 0 5

STORM SEWER LINE NO. 1

STORM SEWER LINE NO. 1 (CONT.)



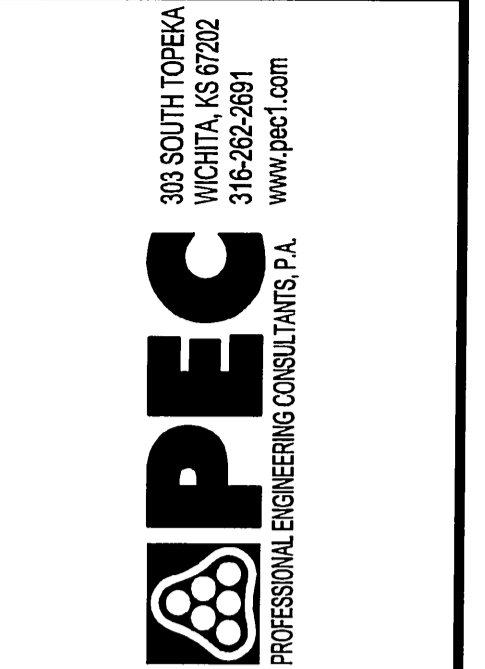
IDENTICAL POINT

AREA INLET CONNECTION:
CORE EXISTING CONCRETE INLET AND INSTALL
NEW 15" RCP. SEAL NEW 15" RCP TO INLET
WITH APPROVED WATERSTOP GASKET AND
NON-SHRINK GROUT. RESHAPE INLET FLOOR
TO PROVIDE SMOOTH FLOW.

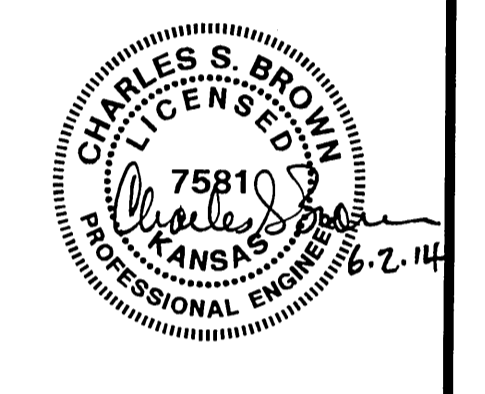
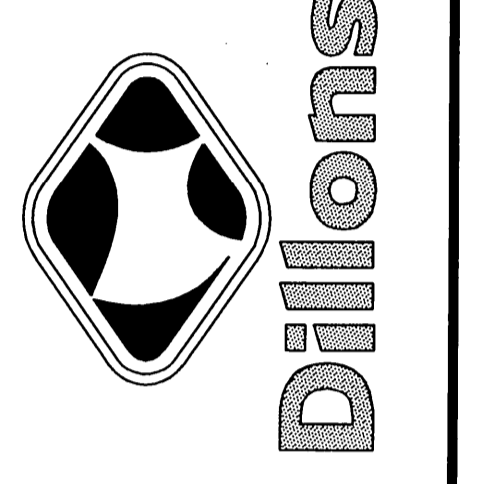
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OR CLARIFICATIONS WHICH ARE DESIRED. CONTRACTORS SHALL ALSO VISIT THE
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CONDITIONS AND APPLICABLE CODES.



Sheet 05 of 31 - 0614 - 0310E AM 14
 Proj. No. 11-06-02-2014 04451
 D:\2006\06742\0728\06742-0728_C2.2_SWS_PLAN & PROFILE



The Kroger Co.
Supermarket
Petroleum Group
Denver, CO 80238
Phone (303) 715-5801
Fax (303) 715-5806



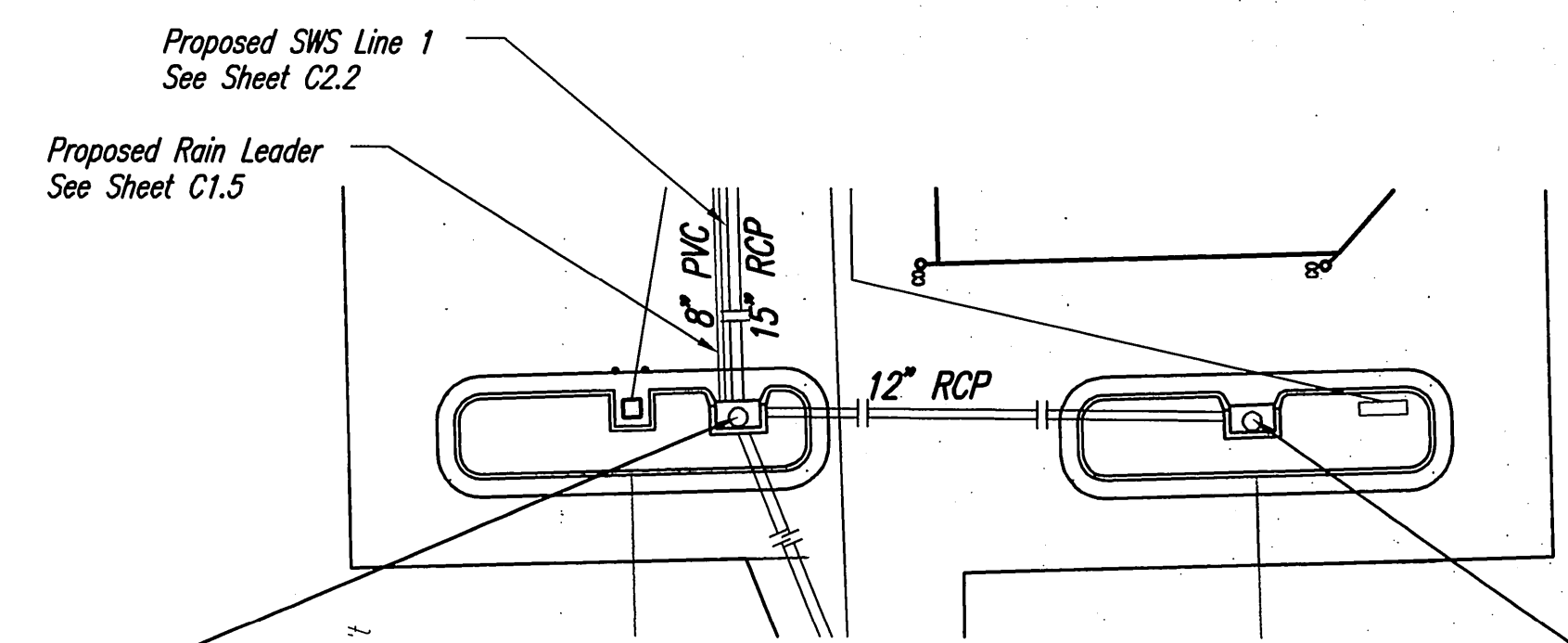
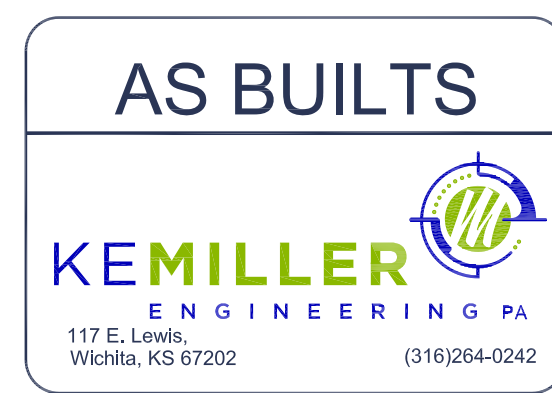
No.	DESCRIPTION	DATE	REVISIONS	
			BY	DATE

Project #: 35-06742-0728-0645
 Designed By: CSB
 Drawn By: CAE
 Checked By: IDK
 Date: JUNE 2, 2014
 Scale: 1:20
 Disk File:
 Model:

Address: CENTRAL & MAIZE
 DILLONS #72 WICHITA, KS

SWS PLAN & PROFILE

Drawing No.:
 C2.2

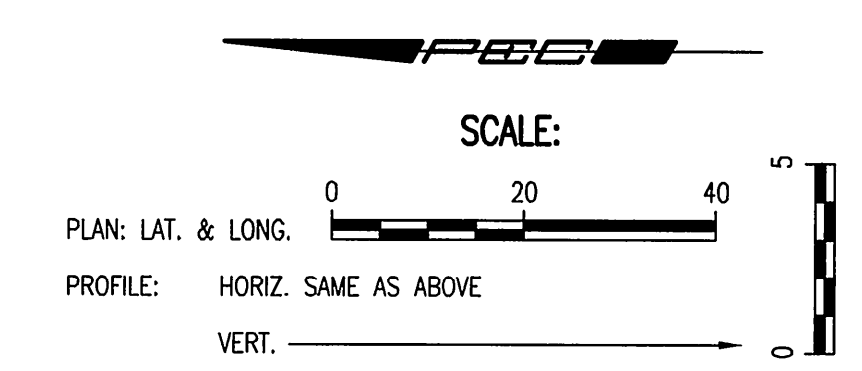


7001
Sta. 10+00.00 SWS Line No. 1A=
Sta. 10+58.11 SWS Line No. 1
Std. Type 1A Curb Inlet with Snout
Match Point. For continuation see Sht. C2.2.

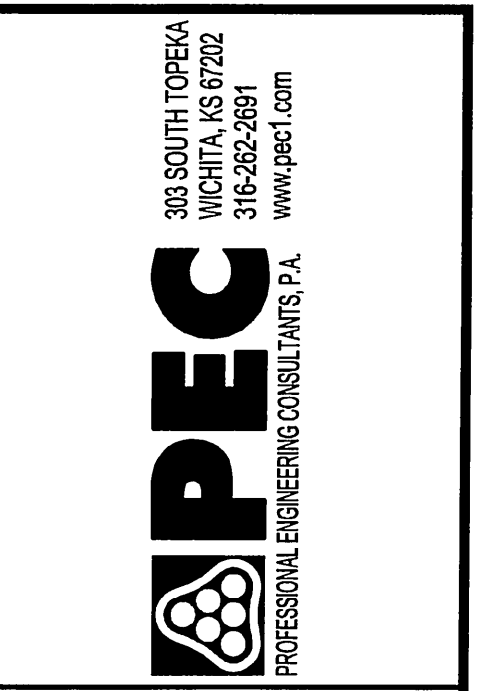
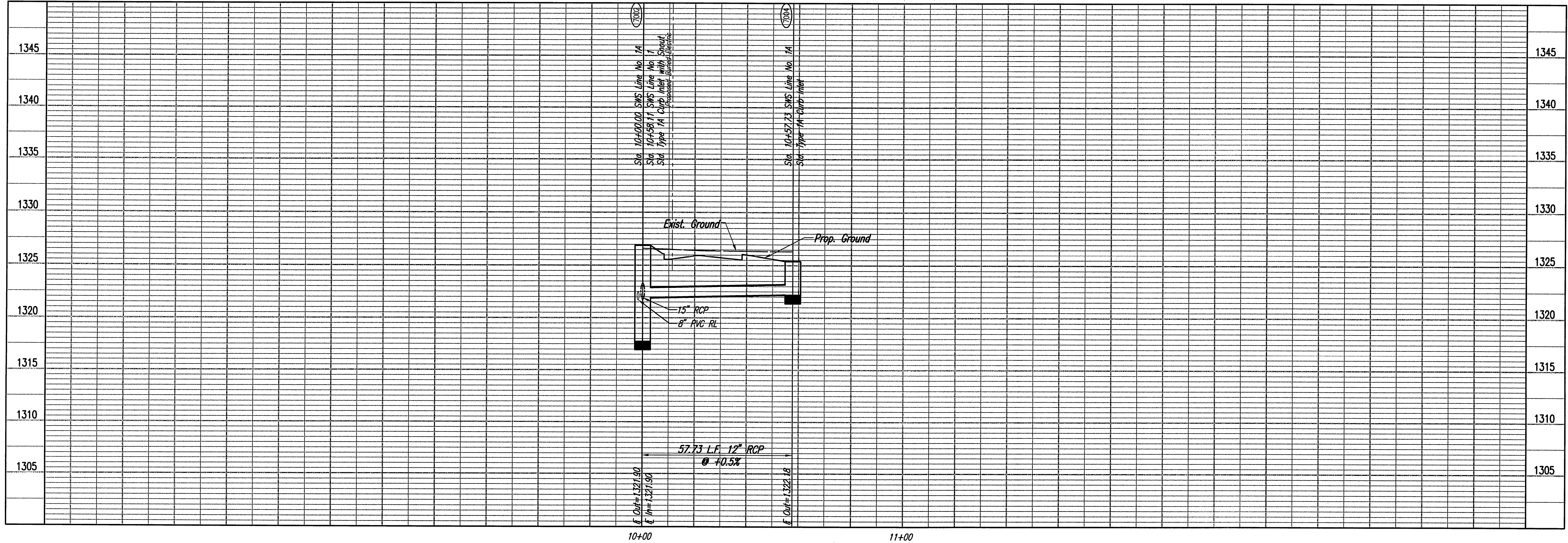
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Sta. 10+57.73 SWS Line No. 1A
Const. Std. Type 1A Curb Inlet
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Top Elev.=1323.8-1325.38
See Sheet No. C2.4.

COORDINATE LIST		
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7004	1,687,411.6281	1,612,232.8671

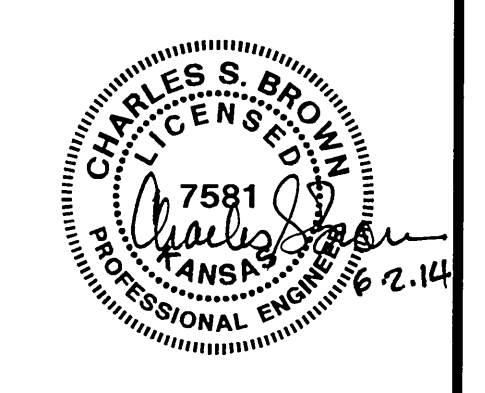
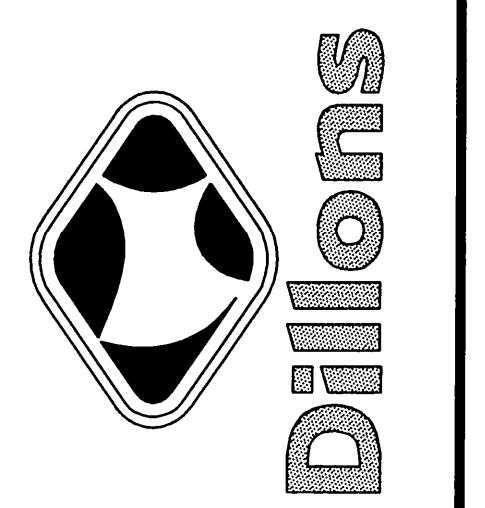
7002 = COORDINATE POINT NO.



STORM SEWER LINE NO. 1A



The Kroger Co.
Supermarket
Petroleum Group
Dillon, CO 80600
Phone (303) 715-9801
Fax (303) 715-9805



No.	DESCRIPTION	DES. BY	DRAWN BY	DATE	
					REVISIONS

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Designed By: CSB
Drawn By: CAE
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Date: JUNE 2, 2014
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Model:

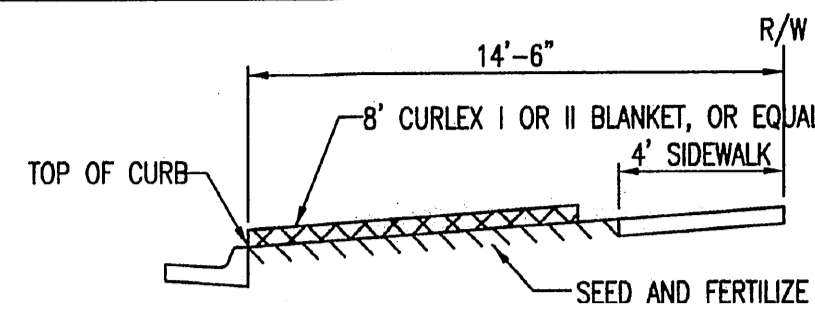
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DILLONS #72 WICHITA, KS

SWS PLAN & PROFILE

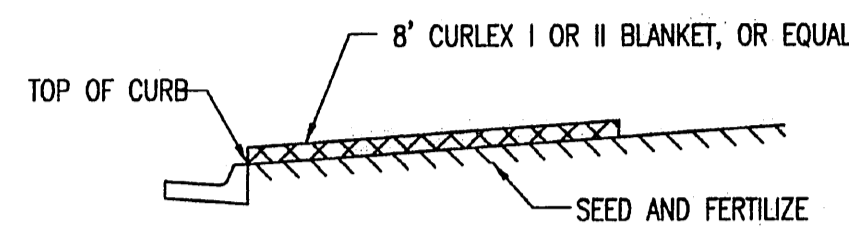
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C2.3

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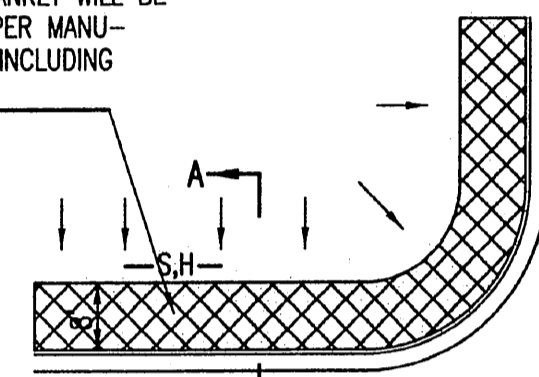


SECTION B-B

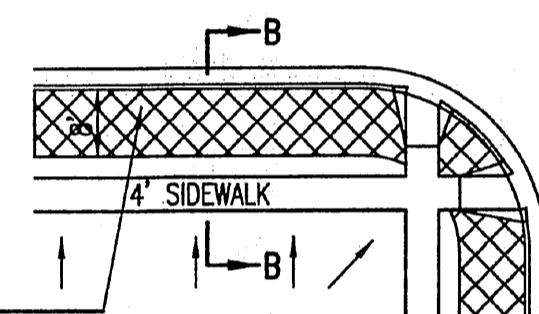


SECTION A-A

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 MANUFACTURERS RECOMMENDATION, INCLUDING STAPLES. (SEE DETAIL)



SOUTH STREET

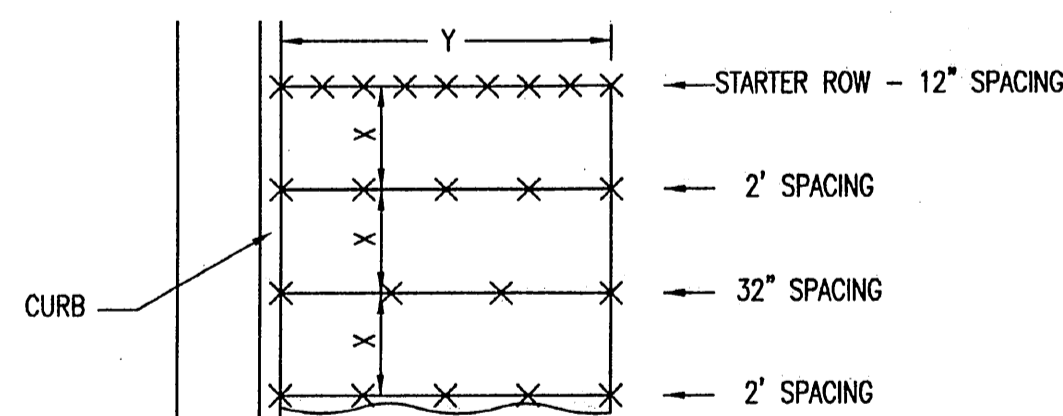


INSTALL 8' WIDE CURLEX I OR II EXCELSIOR BLANKET, OR EQUAL, ON PREPARED SURFACE BACK OF CURB. EDGE OF BLANKET WILL BE AT BACK OF CURB. INSTALL PER MANUFACTURERS RECOMMENDATION, INCLUDING STAPLES. (SEE DETAIL)

GENERAL NOTES

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

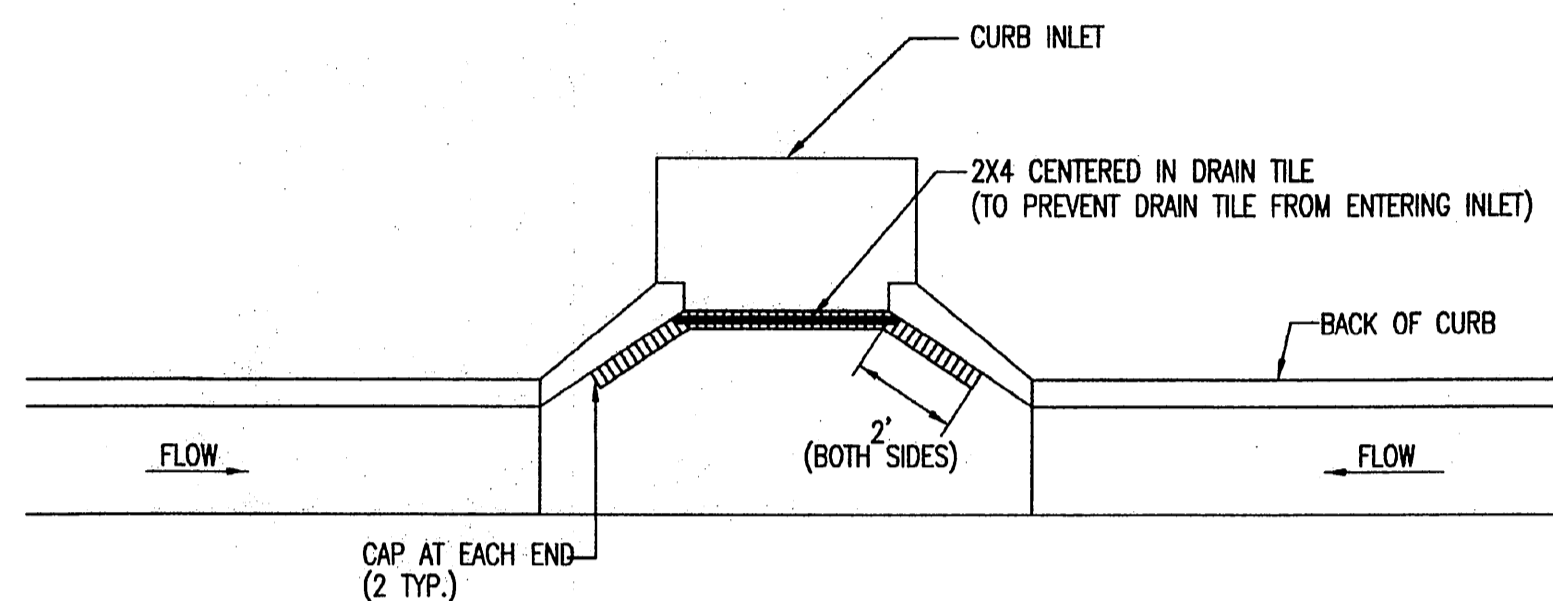
BACK OF CURB PROTECTION DETAIL



STAPLE PATTERN

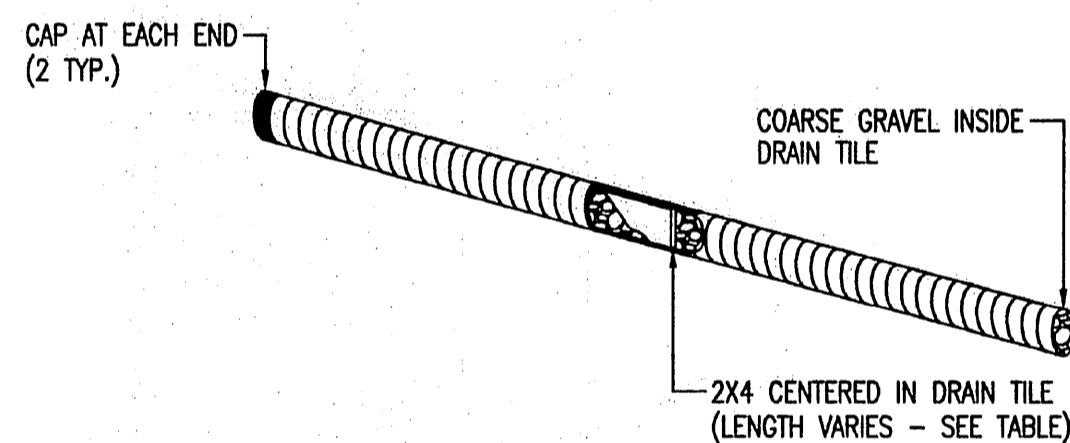
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DETAILS FOR APPROVED EROSION CONTROL MAT

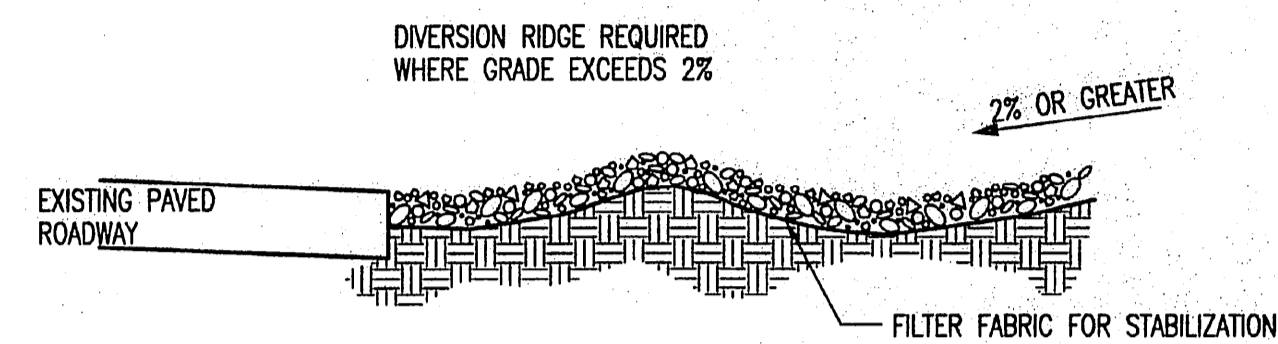


NOTE: PLACE 4\"/>

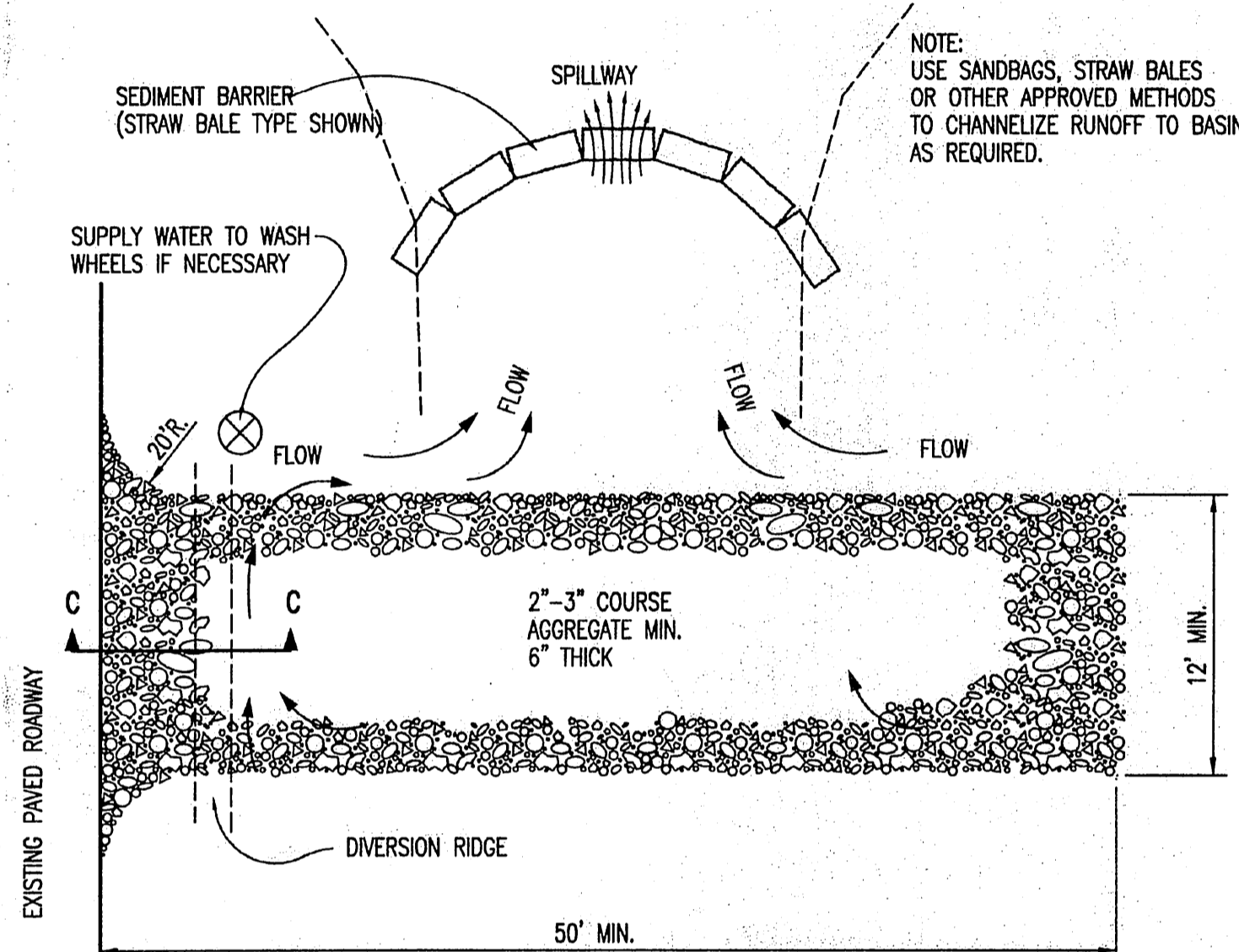
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15'-6"	1-A	15'-0"



CURB INLET PROTECTION
4\"/>



SECTION C-C

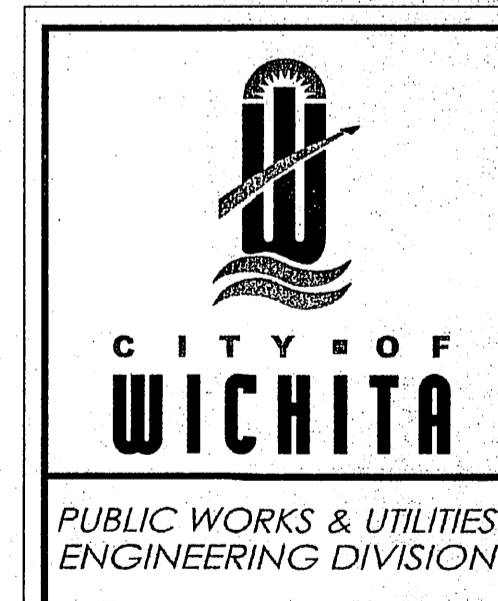


STABILIZED CONSTRUCTION ENTRANCE

GENERAL NOTES

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

REVISION DATE: MAY 2013



BACK OF CURB PROTECTION,
CURB INLET PROTECTION AND
CONSTRUCTION ENTRANCE

CITY ENGINEER:
GARY JANZEN, P.E.

PROJECT NUMBER: _____ OCA NUMBER: _____ DATE: _____

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET _____ of _____

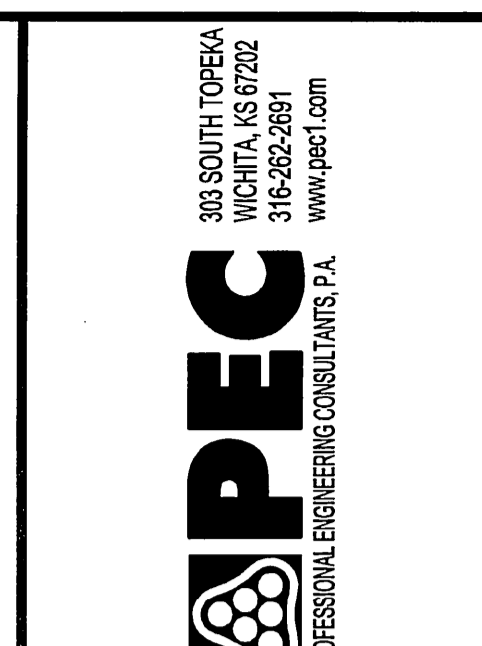


05/13/13

5W-501

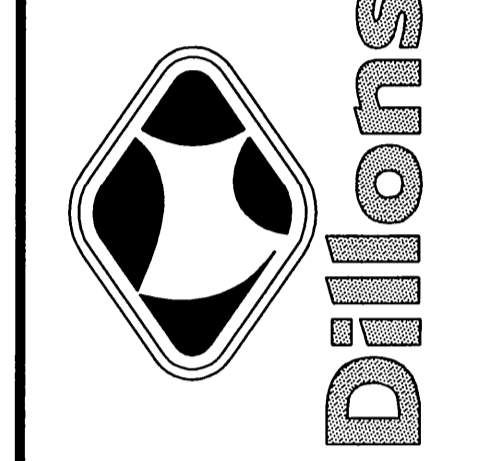
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The Kroger Co.
Supermarket
Petroleum Group

Drawn: CSB 7/24/13
Proj: (316) 716-5965



No.	DESCRIPTION	DES. BY	DRAWN BY	DATE	
				DATE	DATE

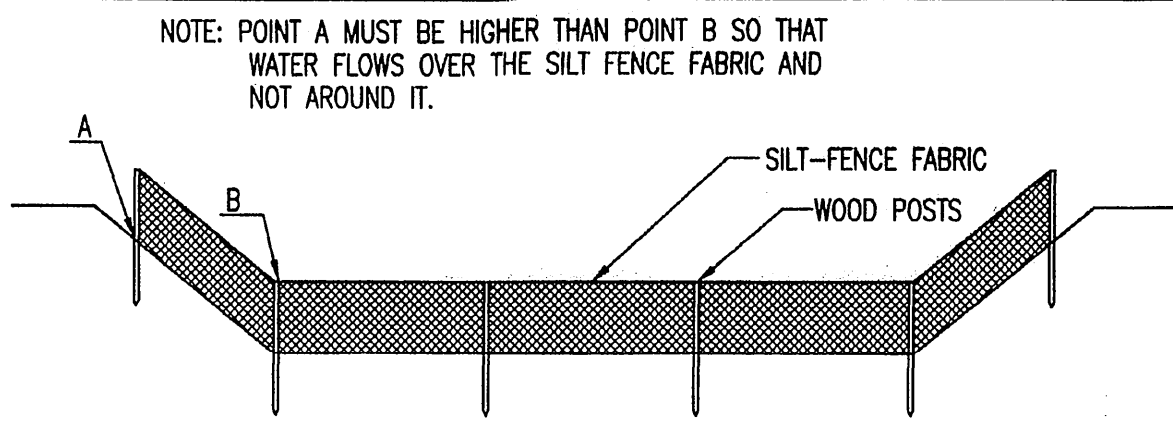
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Designed By: CAE
Drawn By: CSB
Checked By: CSB
Date: JUNE 2, 2014
Scale: NTS
Disk File: NTS
Model:

Address: CENTRAL & MAIZE
DILLONS #72 WICHITA, KS

EROSION CONTROL
DETAILS

Drawing No.: C2.7

Saved: 04-30-2014 2:40:27 PM by CAE
Plot Scale: 1:1 06-02-2014 10:01:02 AM
Q:\2006\06742\072B\06742-072B_C2.7 - EROSION CONTROL DETAILS



ELEVATION
SILT FENCE DITCH CHECKS
(STREAM PROTECTION)

MATERIAL SPECIFICATION:

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

PLACEMENT:

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

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

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

PROPER INSTALLATION METHOD:

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

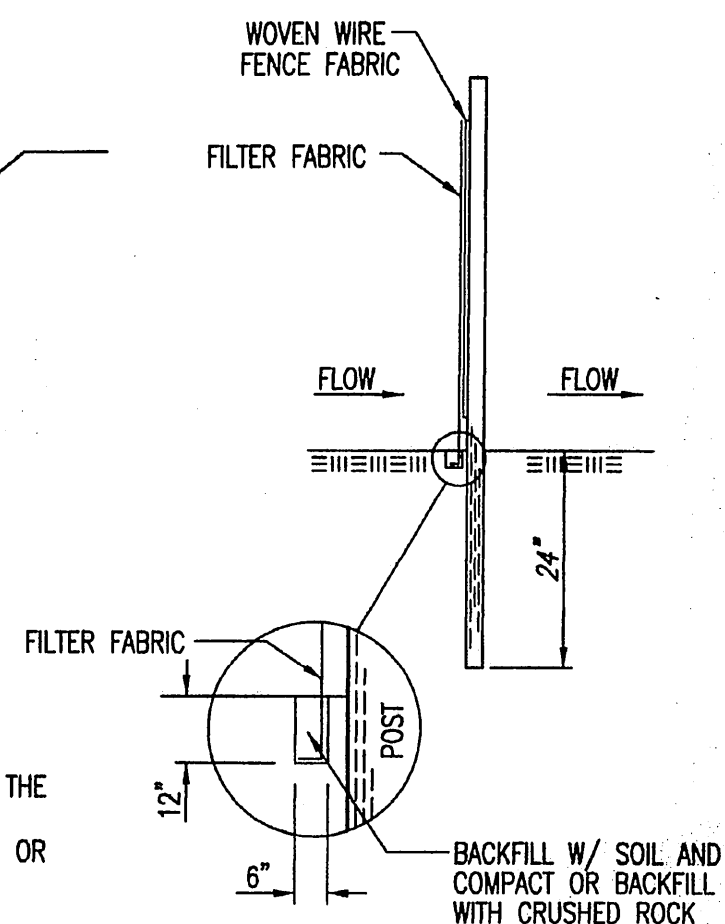
LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

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

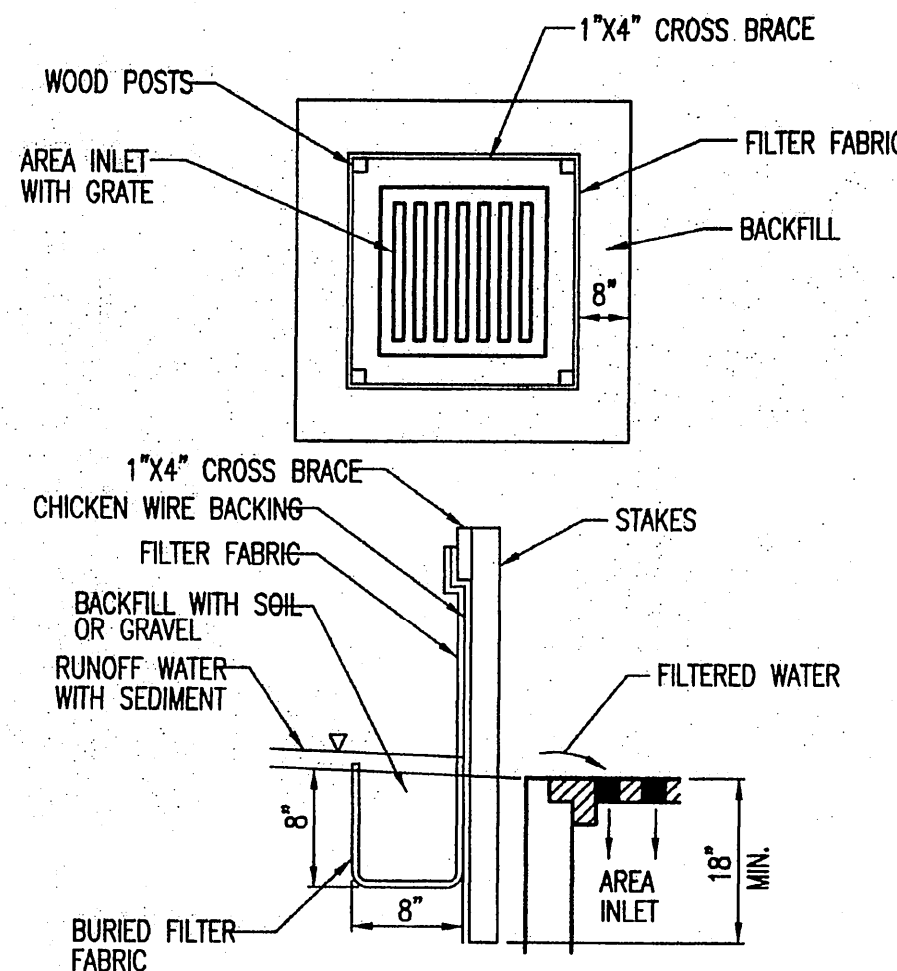
INSPECTION AND MAINTENANCE:

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

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



ANCHOR TRENCH DETAIL



SILT FENCE BARRIERS FOR AREA INLETS
(INLET PROTECTION)

MATERIAL SPECIFICATION:

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

PLACEMENT:

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

PROPER INSTALLATION METHOD:

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

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

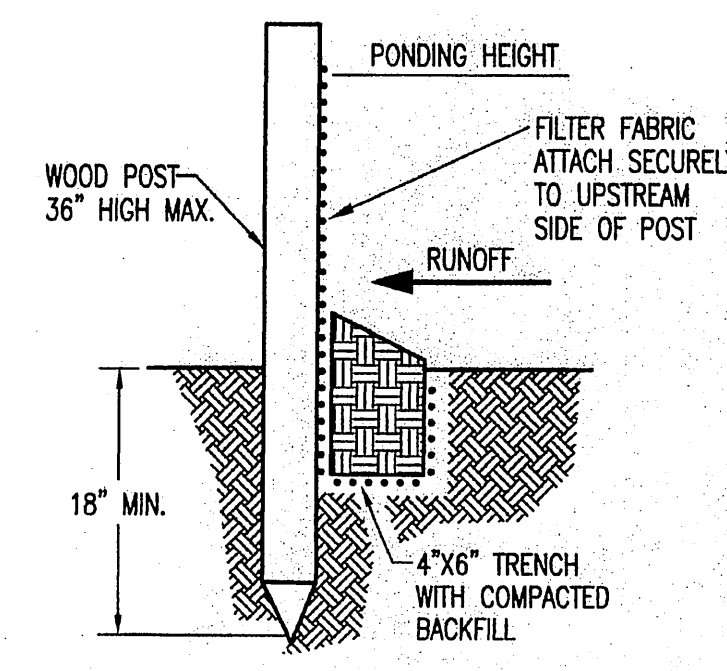
LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

WATER SHOULD FLOW THROUGH A SILT FENCE BARRIER FOR AREA INLET—NOT OVER IT. PLACE A SILT FENCE BARRIER FOR AREA INLET IN A LOCATION WHERE IT IS UNLIKELY TO BE OVERTOPPED. SILT FENCE BARRIER FOR AREA INLETS OFTEN FAIL WHEN REPEATEDLY OVERTOPPED. DO NOT PLACE POSTS ON THE OUTSIDE OF THE SILT FENCE BARRIER FOR AREA INLET. IN THIS CONFIGURATION, THE FORCE OF THE WATER IS NOT 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?



SILT FENCE BARRIERS

MATERIAL SPECIFICATION:

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

PLACEMENT:

A SLOPE BARRIER SHOULD BE USED AT THE TOE OF A SLOPE WHEN A DITCH DOES NOT EXIST. THE SLOPE BARRIER SHOULD BE PLACED ON NEARLY LEVEL GROUND 5' TO 10' AWAY FROM THE TOE OF A SLOPE. THE BARRIER SHOULD BE 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.

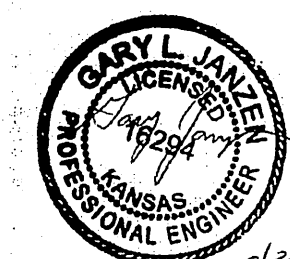
INSPECTION AND MAINTENANCE:

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

CITY OF WICHITA		
PUBLIC WORKS & UTILITIES ENGINEERING DIVISION		
SILT FENCE DITCH CHECK AND BARRIER DETAILS		
CITY ENGINEER GARY JANZEN, P.E.		
PROJECT NUMBER	OGA NUMBER	DATE
CITY ENGINEER'S OFFICE		SHEET
CITY HALL - SEVENTH FLOOR		
455 NORTH MAIN STREET		
WICHITA, KANSAS 67202-1620		
(316) 268-4501		of



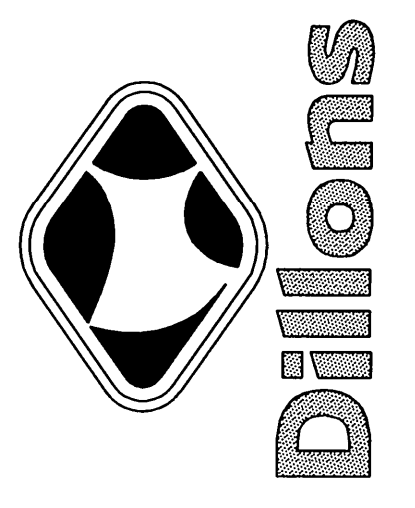
05/2/13

5W-502

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The Kroger Co.
Supermarket
Petroleum Group
Denver, CO 80239
Phone (303) 715-5901
Fax (303) 715-5905



No.	DESCRIPTION	REVISED BY	DATE

Project #: 35-06742-072B-0645
Designed By: _____
Drawn By: CAE
Checked By: CSB
Date: JUNE 2, 2014
Scale: NTS
Disk File: _____
Model: _____

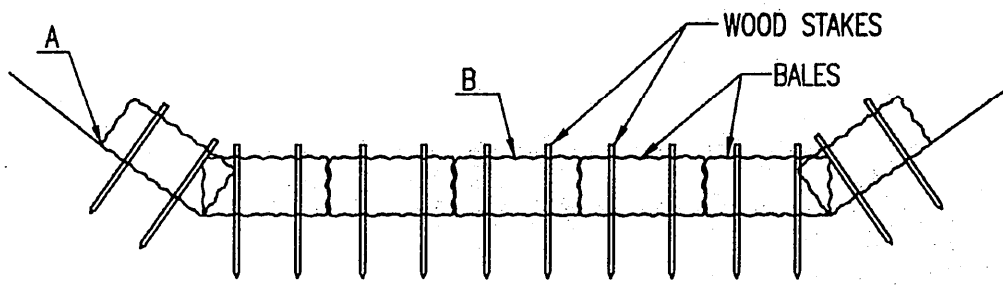
Address: CENTRAL & MAIZE
DILLONS #72 WICHITA, KS

EROSION CONTROL DETAILS

Drawing No.: **C2.8**

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 Plot Scale 1:1 05-02-2014 10:00:12 AM by CHRIS EPP
 Q:\2006\06742\072B\06742-072B.C2.8-EROSION CONTROL DETAILS

NOTE: POINT A MUST BE HIGHER THAN POINT B SO THAT WATER FLOWS OVER THE BALES AND NOT AROUND THEM.



STRAW BALE DITCH CHECKS

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 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".

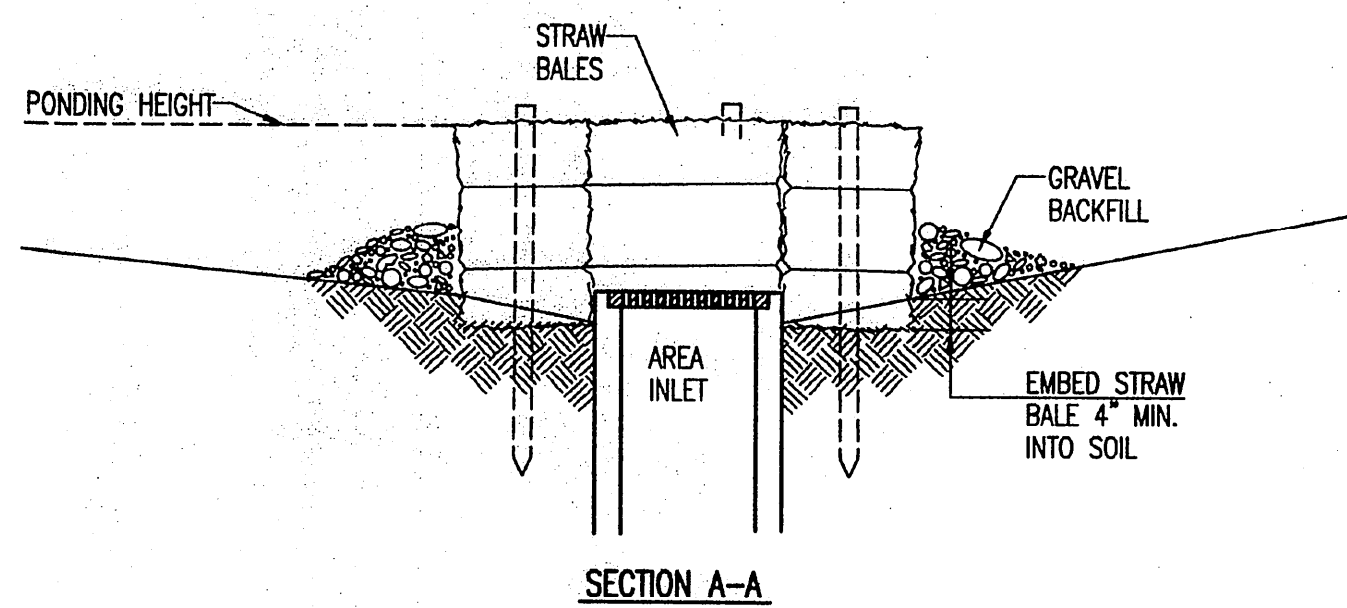
LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

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.

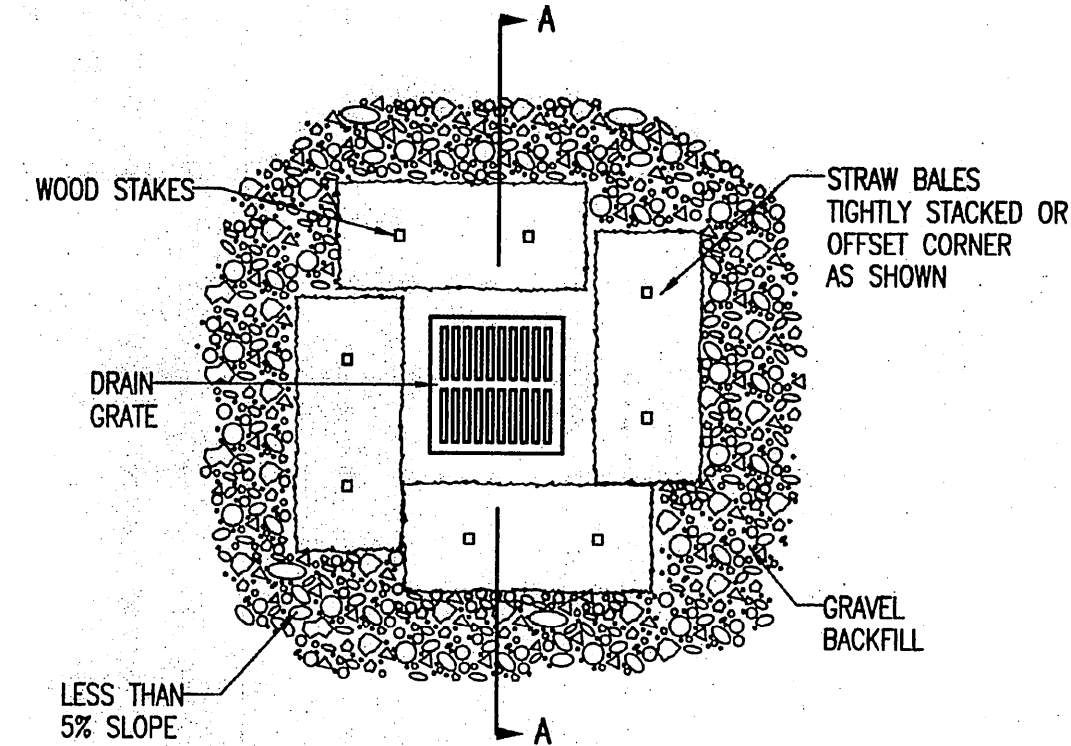
INSPECTION AND MAINTENANCE:

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?



SECTION A-A



STRAW BALE BARRIERS FOR AREA INLETS (INLET PROTECTION)

MATERIAL SPECIFICATION:

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

PLACEMENT:

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

PROPER INSTALLATION METHOD:

EXCAVATE A TRENCH AROUND THE PERIMETER OF THE AREA INLET THAT IS AT LEAST 4" DEEP BY A BALE'S WIDTH WIDE. PLACE THE BALES IN THE TRENCH, MAKING SURE THAT THEY ARE BUTTED TIGHTLY. SOME BALES MAY NEED TO BE SHORTENED TO FIT INTO THE TRENCH AROUND THE AREA INLET. TWO STAKES SHOULD BE DRIVEN THROUGH EACH BALE, APPROXIMATELY 6" TO 8" IN FROM THE BALE ENDS. STAKES SHOULD BE DRIVEN AT LEAST 12" INTO THE GROUND. ONCE ALL THE BALES HAVE BEEN INSTALLED AND ANCHORED, PLACE THE EXCAVATED SOIL AGAINST THE RECEIVING SIDE OF THE BARRIER AND COMPACT IT. THE COMPACTED SOIL SHOULD BE NO MORE THAN 3" TO 4" DEEP. NOTE: WHEN A BALE AREA INLET BARRIER IS PLACED IN A SHALLOW MEDIAN DITCH, MAKE SURE THAT THE TOP OF THE BARRIER IS NOT HIGHER THAN THE PAVED ROAD. IN THIS CONFIGURATION, WATER MAY SPREAD ONTO THE ROADWAY CAUSING A HAZARDOUS CONDITION.

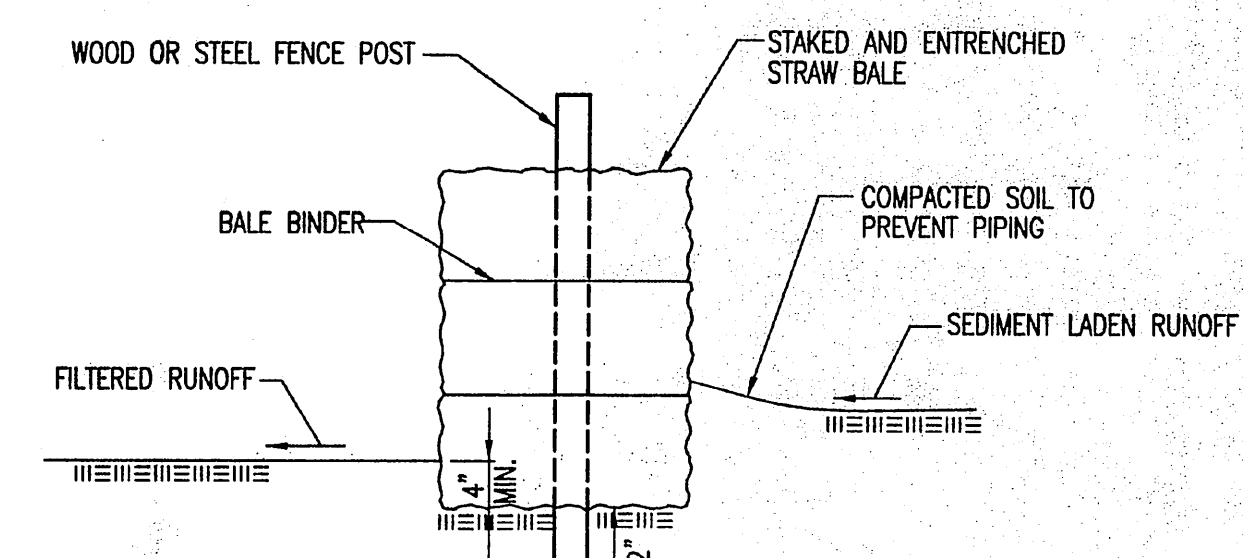
LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

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

INSPECTION AND MAINTENANCE:

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

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



STRAW BALE BARRIERS

MATERIAL SPECIFICATION:

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

PLACEMENT:

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

PROPER INSTALLATION METHOD:

EXCAVATE A TRENCH THE LENGTH OF THE PLANNED SLOPE BARRIER THAT IS 4" DEEP AND A BALE'S WIDTH WIDE. MAKE SURE THAT THE TRENCH IS EXCAVATED ALONG A SINGLE CONTOUR. WHEN PRACTICABLE, SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. PLACE THE SOIL ON THE UPSLOPE SIDE OF THE TRENCH FOR LATER USE. PLACE THE BALES IN THE TRENCH, MAKING SURE THAT THEY ARE BUTTED TIGHTLY. TWO STAKES SHOULD BE DRIVEN THROUGH EACH BALE ALONG THE CENTERLINE OF THE DITCH CHECK, APPROXIMATELY 6" TO 8" IN FROM THE BALE ENDS. STAKES SHOULD BE DRIVEN AT LEAST 12" INTO THE GROUND. ONCE ALL THE BALES HAVE BEEN INSTALLED AND ANCHORED, PLACE THE EXCAVATED SOIL AGAINST THE UPSLOPE SIDE OF THE CHECK AND COMPACT IT. THE COMPACTED SOIL SHOULD BE NO MORE THAN 3" TO 4" DEEP.

LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

WHEN PRACTICAL, DO NOT PLACE BALE SLOPE BARRIERS ACROSS CONTOURS. SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. CONCENTRATED FLOW OVER A SLOPE BARRIER CREATES A SCOUR HOLE ON THE DOWNSLOPE SIDE OF THE BARRIER. THE SCOUR HOLE EVENTUALLY UNDERMINES THE BALES AND THE BARRIER FAILS. DO NOT PLACE BALE SLOPE BARRIERS IN AREAS WITH SHALLOW SOILS UNDERLAIN BY ROCK. IF THE BARRIER IS NOT ANCHORED SUFFICIENTLY, IT WILL WASH OUT. BALE SLOPE BARRIERS MUST BE DUG INTO THE GROUND. BALES AT GROUND LEVEL DO NOT WORK BECAUSE THEY ALLOW WATER TO FLOW UNDER THE BARRIER.

INSPECTION AND MAINTENANCE:

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

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

REVISION DATE: MAY 2013

CITY OF WICHITA

PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

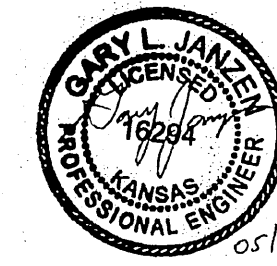
STRAW BALE DITCH CHECK AND BARRIER DETAILS

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER: _____ OCA NUMBER: _____ DATE: _____

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET
_____ of _____

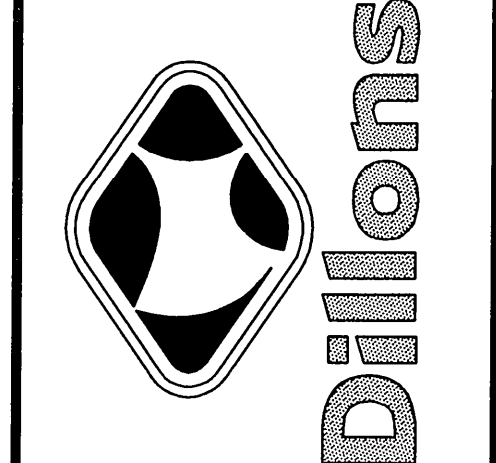


305 SOUTH TOPPERA
WICHITA, KS 67202
316-262-2891
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PEC
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.

The Kroger Co.
Supermarket
Petroleum Group

Denver, CO 80239
Phone (303) 715-5901
Fax (303) 715-5905



NO.	DESCRIPTION	DATE	REVISIONS	
			DATE	DESCRIPTION

Address: CENTRAL & MAIZE
DILLONS #72 WICHITA, KS

EROSION CONTROL DETAILS

Drawing No.: **C2.9**

Sheet 04-30-2014, 2:05:11 PM, by: GJE
 Proj. State: 11, 08-12-2014, 9:59:46 AM, by: CHRIS EPP
 O:\2008\06742\0728\06742-0728-C2.9-EROSION CONTROL DETAILS

THIS DRAWING IS AND SHALL REMAIN THE PROPERTY OF THE KROGER COMPANY REPRODUCTION OR ALTERATION OF THIS DRAWING WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE KROGER COMPANY IS PROHIBITED. (NOT PUBLISHED: ALL RIGHTS RESERVED)

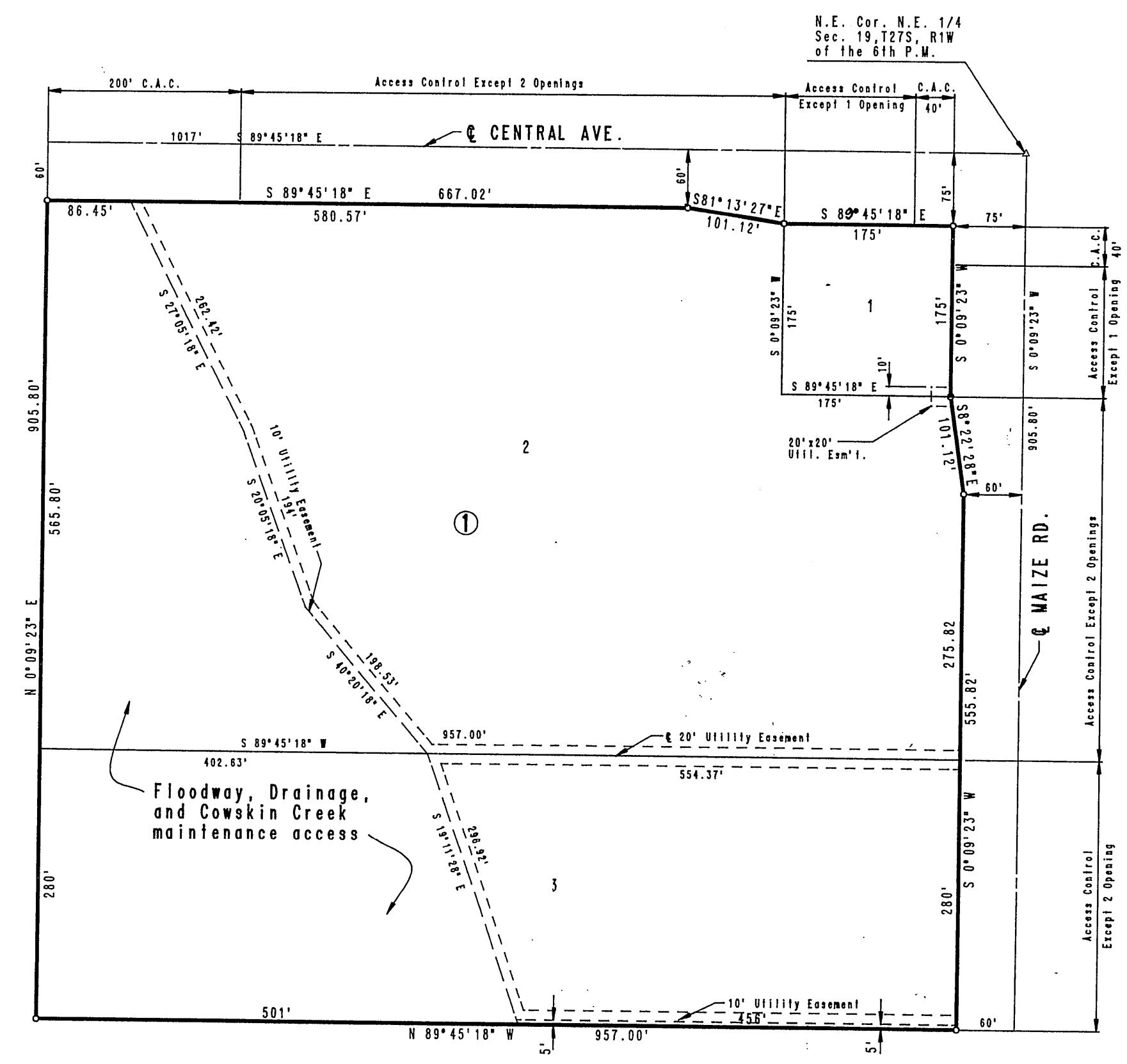
NOTE TO CONTRACTORS:
THIS SET OF DRAWINGS AND DOCUMENTS IS INTENDED AS A SET OF GUIDELINES FOR THE PROJECT AND ARE INTENDED TO BE USED IN CONJUNCTION WITH A SET OF CONSTRUCTION SPECIFICATIONS TO BE SUPPLIED BY OWNER. THEY MUST BE READ TO INCORPORATE ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES INCLUDING FEDERAL A.D.A. REQUIREMENTS. THIS SET ASSUMES THAT THERE ARE NO UNUSUAL SOIL CONDITIONS OR WIND LOADS. THE FAILURE OF THIS CONDITION MAY REQUIRE SIGNIFICANT CHANGES TO THESE DOCUMENTS. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO CONFORM TO ALL APPLICABLE CODES AND TO INFORM THE OWNERS/ARCHITECTS OF ANY QUESTIONS OR CLARIFICATIONS WHICH ARE DESIRED. CONTRACTORS SHALL ALSO VISIT THE SITE BEFORE BIDDING. CONTRACTORS ARE REQUIRED TO KNOW ALL OBSERVABLE CONDITIONS AND APPLICABLE CODES.

M-2 8-26

M-2 8-26

Central-Maize 2nd Addition

WICHITA, SEDGWICK COUNTY, KANSAS.

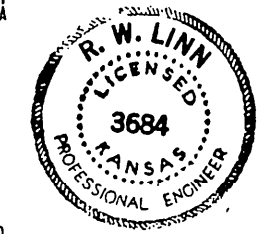


Scale: 1" = 100'
C.A.C. = Complete Access Control
● = Iron Set
○ = Iron Pd.
B.M. City of Wichita bench mark disc 41.3 ft. South & 52.5 ft. East of centerlines of Central & Maize.
E.L. = 142.257 City Date
E.L. = 1329.657 M.S.L.
A.C. = Access Control
Note: For Building Setback Lines See DP-129
Minimum Pad Elev. =
Lots 1 and 2, 1329 m.s.l.
Lot 3, 1327 m.s.l.

STATE OF KANSAS
COUNTY OF SEDGWICK

I, R.W. Linn, a professional engineer in aforesaid state and county, do hereby certify that on this 22nd day of September, 1985, I have caused to be surveyed and platted "Central-Maize 2nd Addition", Wichita, Sedgwick County, Kansas, into lots and a block, described as and being a replat of block 1, Central-Maize Addition, Wichita, Sedgwick County, Kansas.

R.W. Linn
R. W. LINN, P.E. No. 3684



KNOW ALL MEN BY THESE PRESENTS THAT WE, OWNERS OF THE LAND AS ABOVE SET FORTH IN THE ENGINEER'S CERTIFICATE, HAVE CAUSED THE LAND TO BE SURVEYED AND PLATTED INTO LOTS AND A BLOCK KNOWN AS "CENTRAL-MAIZE 2ND ADDITION", BUILDING SETBACKS REQUIRED AS NOTED IN OPPOSITE MAIZE ROAD DEVELOPMENT COMMUNITY UNIT PLAN ON FILE AT THE WICHITA-SEDGWICK COUNTY METROPOLITAN AREA PLANNING DEPARTMENT. THAT PART OF LOTS 2 AND 3 BARRICADED FLOODWAY SHALL ALSO BE USED FOR DRAINAGE AND CONSERVATION MAINTENANCE ACCESS. THE FLOODWAY SHALL BE THE RESPONSIBILITY OF THE OWNERS OF LOTS 2 AND 3 UNTIL SUCH TIME AS THE GOVERNING BODY EXERCISING JURISDICTION ELECTS TO ASSUME RESPONSIBILITY FOR MAINTENANCE AND IMPROVEMENT OF THE FLOODWAY. PROVIDED FURTHER THAT NO BUILDINGS SHALL BE CONSTRUCTED ON OR WITHIN SAID FLOODWAY, AND SHALL ANY FUTURE CHANGE OF DRAINAGE OR FLOODWAY, OR OTHER WORK BE CARRIED ON WITHOUT THE PERMISSION OF THE APPROPRIATE GOVERNING BODY. WITHIN AND EXCEPT FOR LOTS 1 AND 2 SHALL BE 1200 WELLS AND FOR LOT 3 SHALL BE 1327 WELLS. ALL RIGHTS OF ACCESS TO AND FROM CENTRAL AVENUE AND MAIZE ROAD ARE HEREBY GRANTED TO THE CITY OF WICHITA. PROVIDED HOWEVER THAT LOT 1 SHALL HAVE ACCESS TO CENTRAL AVENUE AT ONE (1) LOCATION AND TO MAIZE ROAD AT ONE (1) LOCATION; THAT LOT 2 SHALL HAVE ACCESS TO CENTRAL AVENUE AT TWO (2) LOCATIONS AND ACCESS TO MAIZE ROAD AT TWO (2) LOCATIONS; ALL OF THE ABOVE LOCATIONS TO BE DETERMINED BY THE CITY ENGINEER OF THE CITY OF WICHITA, KANSAS. FOR FOR OTHER LOTS OF DRAINAGE AGREEMENT OF SURFACE WATER, SEE FILE # 764 PAGES 10-11. ALL PORTIONS OF BLOCK 1, CENTRAL-MAIZE ADDITION, WICHITA, SEDGWICK COUNTY, KANSAS ARE HEREBY VACATED AND REPLATTED BY VIRTUE OF KSA 21-2125(a) AMENDED.

OWNERS:
Sam E. Rudd SAM E. RUDD
Elenore Rudd ELENORE RUDD
HIGHLAND HOUSE, A PARTNERSHIP BY ALL PARTNERS
Leslie J. Rudd LESLIE J. RUDD
Leslie H. Weigand, Jr. LESLIE H. WEIGAND, JR.
THE CELIA LEVAND TRUST:
Celia Levand TRUSTEE
CELIA LEVAND
Doris E. Stieg TRUSTEE
DORIS E. STIEG

STATE OF KANSAS
COUNTY OF SEDGWICK

BE IT REMEMBERED THAT ON THIS 29th day of September, 1985, BEFORE ME, A NOTARY PUBLIC IN AFORESAID STATE AND COUNTY, CAME SAM E. RUDD AND ELENORE RUDD, HUSBAND AND WIFE, TO ME PERSONALLY KNOWN TO BE THE SAME PERSONS WHO EXECUTED THE FOREGOING INSTRUMENT OF WRITING AND DULY ACKNOWLEDGED THE EXECUTION OF SAME FOR AND ON BEHALF AND AS THE VOLUNTARY ACT AND DEED OF SAID PARTNERSHIP. IN TESTIMONY WHEREOF, I HAVE HEREUNTO SET MY HAND AND AFFIXED MY NOTARIAL SEAL THE DAY AND YEAR ABOVE WRITTEN.

Patricia J. Dale NOTARY PUBLIC
BY COMMISSION EXPIRES: March 1987 Patricia J. Dale

STATE OF KANSAS
COUNTY OF SEDGWICK

BE IT REMEMBERED THAT ON THIS 4th day of September, 1985, BEFORE ME, A NOTARY PUBLIC IN AFORESAID STATE AND COUNTY, CAME MRS. R. HIGHLAND HOUSE, A PARTNERSHIP BY ALL PARTNERS, ALL OF THE PARTNERS OF HIGHLAND HOUSE, A PARTNERSHIP, TO ME PERSONALLY KNOWN TO BE THE SAME PERSONS WHO EXECUTED THE FOREGOING INSTRUMENT OF WRITING AND DULY ACKNOWLEDGED THE EXECUTION OF SAME FOR AND ON BEHALF AND AS THE VOLUNTARY ACT AND DEED OF SAID PARTNERSHIP. IN TESTIMONY WHEREOF, I HAVE HEREUNTO SET MY HAND AND AFFIXED MY NOTARIAL SEAL THE DAY AND YEAR ABOVE WRITTEN.

Patricia J. Dale NOTARY PUBLIC
BY COMMISSION EXPIRES: March 1987 Patricia J. Dale

STATE OF KANSAS
COUNTY OF SEDGWICK

BE IT REMEMBERED THAT ON THIS 4th day of September, 1985, BEFORE ME, A NOTARY PUBLIC IN AFORESAID STATE AND COUNTY, CAME CELIA LEVAND, TRUSTEE, AND DORIS E. STIEG, TRUSTEE OF THE CELIA LEVAND TRUST, TO ME PERSONALLY KNOWN TO BE THE SAME PERSONS WHO EXECUTED THE FOREGOING INSTRUMENT OF WRITING AND DULY ACKNOWLEDGED THE EXECUTION OF SAME FOR AND ON BEHALF AND AS THE VOLUNTARY ACT AND DEED OF SAID TRUST. IN TESTIMONY WHEREOF, I HAVE HEREUNTO SET MY HAND AND AFFIXED MY NOTARIAL SEAL THE DAY AND YEAR ABOVE WRITTEN.

Patricia J. Dale NOTARY PUBLIC
BY COMMISSION EXPIRES: March 1987 Patricia J. Dale

ME, RITA C. KAMEN, IVONKE KAMEN GOLDSTEIN, AND DON L. MCCAFFREE AND BETTY MCCAFFREE HUSBAND AND WIFE, HOLDERS OF A MORTGAGE ON PART OF THE ABOVE DESCRIBED PROPERTY, DO HEREBY CONSENT TO THE PLATTING OF CENTRAL-MAIZE 2ND ADDITION, WICHITA, SEDGWICK COUNTY, KANSAS.
Rita C. Kamen RITA C. KAMEN
Don L. McCaffree DON L. MCCAFFREE
Ivonne Kamen Goldstein IVONKE KAMEN GOLDSTEIN
Betty McCaffree BETTY MCCAFFREE

STATE OF KANSAS
COUNTY OF SEDGWICK

BE IT REMEMBERED THAT ON THIS 4th day of September, 1985, BEFORE ME, A NOTARY PUBLIC IN AFORESAID STATE AND COUNTY, CAME RITA C. KAMEN, IVONKE KAMEN GOLDSTEIN AND DON L. MCCAFFREE AND BETTY MCCAFFREE HUSBAND AND WIFE, TO ME PERSONALLY KNOWN TO BE THE SAME PERSONS WHO EXECUTED THE FOREGOING INSTRUMENT OF WRITING AND DULY ACKNOWLEDGED THE EXECUTION OF SAME FOR AND ON BEHALF AND AS THE VOLUNTARY ACT AND DEED OF SAID TRUST. IN TESTIMONY WHEREOF, I HAVE HEREUNTO SET MY HAND AND AFFIXED MY NOTARIAL SEAL THE DAY AND YEAR ABOVE WRITTEN.

Patricia J. Dale NOTARY PUBLIC
BY COMMISSION EXPIRES: March 1987 Patricia J. Dale

THIS PLAT HAS BEEN SUBMITTED TO AN APPROVED BY THE WICHITA-SEDGWICK COUNTY METROPOLITAN AREA PLANNING COMMISSION, WICHITA, KANSAS, DATED THIS 29th day of September, 1985.

James C. Wilson CHAIRMAN
JAMES C. WILSON
Michael E. Lindegar SECRETARY
MICHAEL E. LINDEGAR

THIS PLAT APPROVED AND ALL DEDICATIONS SHOWN HEREON ARE ACCEPTED BY THE CITY ENGINEER OF THE CITY OF WICHITA, KANSAS, DATED THIS 29th day of September, 1985.
Robert C. Brown ROBERT C. BROWN
Donald C. Estick DONALD C. ESTICK CITY CLERK

ENTERED ON TRANSFER RECORD THIS 29th day of September, 1985.
Don Wright DON WRIGHT COUNTY CLERK

THIS IS TO CERTIFY THAT THIS INSTRUMENT WAS FILED FOR RECORD IN THE REGISTER OF DEEDS OFFICE AT WICHITA, KANSAS, ON THIS 29th day of September, 1985.
Pat Kettler PAT KETTLER REGISTER OF DEEDS
Ed Resa ED RESA DEPUTY

303 SOUTH TOPEKA
WICHITA, KS 67202
316-262-2891
www.pec.com

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.

The Kroger Co.
Supermarket
Petroleum Group

Dillons

REVISIONS	No.	DESCRIPTION	DATE

No.	DESCRIPTION	DATE

Project #: 35-06742-072B-0645
Designed By: _____
Drawn By: CAE
Checked By: _____
Date: JUNE 2, 2014
Scale: NTS
Disk File: _____
Model: _____

Address: CENTRAL & MAIZE
DILLONS #72 WICHITA, KS

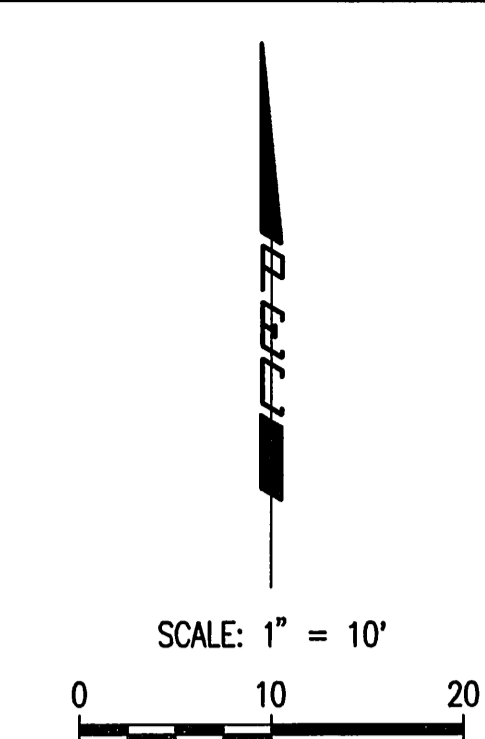
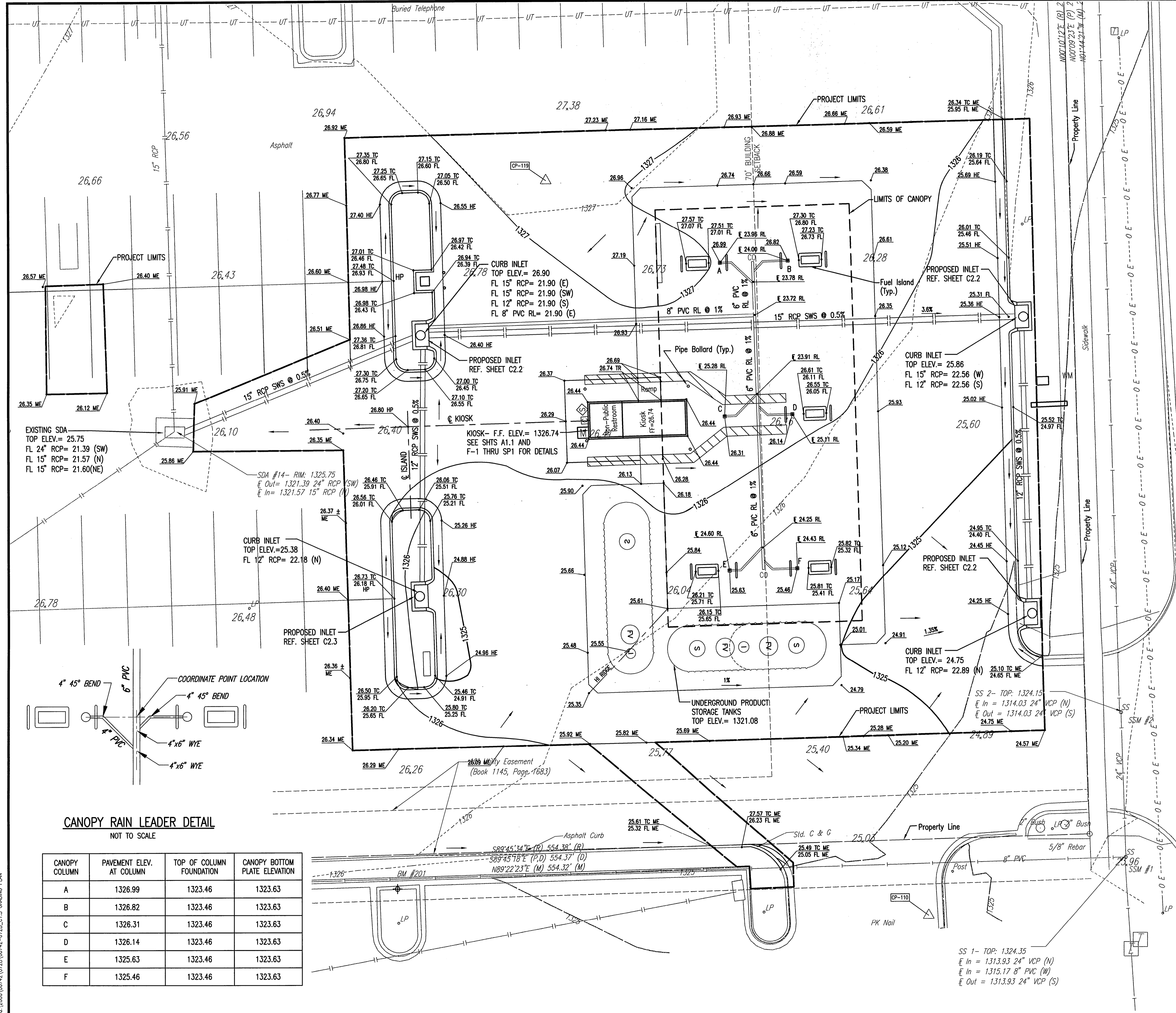
PLAT

Drawing No.: C2.10

This digital plat record accurately reproduces in all details the original plat filed with the Sedgwick County Register of Deeds. Digitized under the supervision of Register of Deeds Bill Meek by Sedgwick County Geographic Information Systems.

Bill Meek, Register of Deeds
Digitized version of original signature

Scanned by: 08-08-2014 3:25:48 PM by: C.E.
Plot Scale: 1" = 100'-02-2014 6:56:35 AM by: CHRIS, ERP
C:\2008\06742\072B\06742-072B-C2.10.PLOT.PLAN



- LEGEND**
- 1375 — Existing Major Contour
 - - - 1374 - - - Existing Minor Contour
 - 1375 — Proposed Major Contour
 - - - 1374 - - - Proposed Minor Contour
 - RL Rain Leader
 - Drainage Flow
 - 25.00 Spot Elevation
 - 25.00 TR Top of Ramp Elevation
 - 25.00 TC Top of Curb Elevation
 - 25.00 FL Flowline Elevation
 - Match Existing Elevation
 - HP High Point
 - HE High Edge

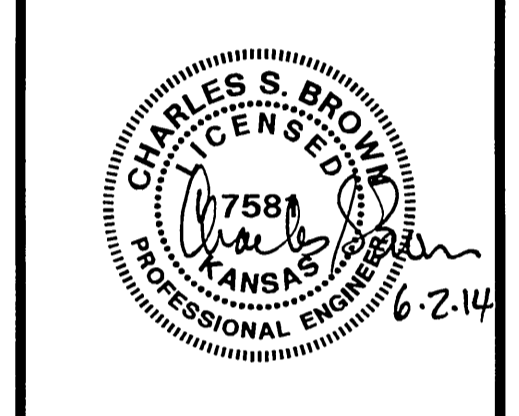
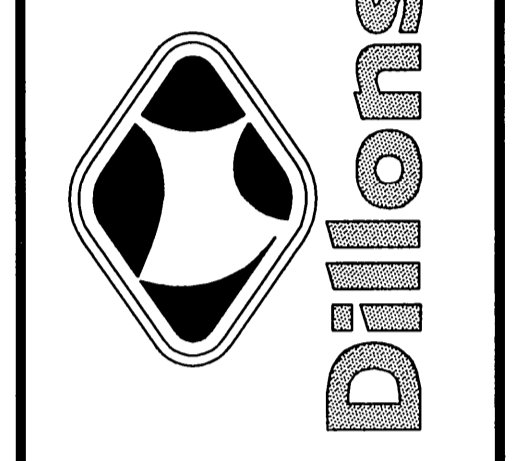
- NOTES:**
1. ADD 1300 TO ALL PROPOSED SPOT ELEVATIONS.
 2. MAXIMUM GRADES ON REINFORCED CONCRETE UNDER THE CANOPY SHALL BE 2.0%. MAXIMUM GRADES OVER THE TANK SLAB SHALL BE 3%.
 3. MAXIMUM GRADE ON 5 FT. AREA OUTSIDE OF KIOSK DOOR SHALL BE 2.0%.
 4. MANHOLE ELEVATIONS FOR UNDERGROUND PRODUCT STORAGE TANKS SHALL BE 1" ABOVE PROPOSED GRADE. TAPER RIM TO GRADE IN 24" MINIMUM.
 5. VERIFY ADA GUIDELINES FOR DOOR ENTRANCE AND CUSTOMER SERVICE DRAWER AT KIOSK WINDOW PRIOR TO CONSTRUCTION.
 6. THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES TO KEEP SEDIMENT OFF OF THE STREET AND ADJACENT PROPERTY. SEE DETAILS, SHEET C2.6.
 7. IMPROVEMENTS ARE TO BE CONSTRUCTED PER THE CURRENT ADA GUIDELINES. CONTRACTOR TO FIELD VERIFY COMPLIANCE. MAXIMUM CROSS SLOPE FOR SIDEWALK IS 2%.
 8. SEE SHEET C1.1 FOR SITE BENCHMARKS.

CANOPY RAIN LEADER DETAIL
NOT TO SCALE

CANOPY COLUMN	PAVEMENT ELEV. AT COLUMN	TOP OF COLUMN FOUNDATION	CANOPY BOTTOM PLATE ELEVATION
A	1326.99	1323.46	1323.63
B	1326.82	1323.46	1323.63
C	1326.31	1323.46	1323.63
D	1326.14	1323.46	1323.63
E	1325.63	1323.46	1323.63
F	1325.46	1323.46	1323.63

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Petroleum Group
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NO.	DESCRIPTION	DATE

Project #: 35-06742-0728-0645
 Designed By: CSB
 Drawn By: CAE
 Checked By: BKJ
 Date: JUNE 2, 2014
 Scale: 1:10
 Disk File:
 Model:

Address: CENTRAL & MAIZE
 DILLONS #72 WICHITA, KS

GRADING PLAN
 Drawing No.: C1.5

Sheet 05-11-2014 8:57:15 AM by CSE
 Plot Scale: 1" = 10'-0" 2014 8:46:17 AM by CHRIS EPP
 C:\2006\06742\0728\06742-0728_C1.5 GRADING PLAN

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