

GENERAL NOTES

- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY REGULATIONS. ALL CONSTRUCTION SHALL BE COMPLETED FOLLOWING CURRENT CITY STANDARDS SPECIFICATIONS AND SPECIAL PROVISIONS.
- CONTRACTOR WILL BE REQUIRED TO PROVIDE NOTICE TO UTILITY COMPANIES A MINIMUM OF SEVENTY-TWO (72) HOURS PRIOR TO AND 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 & SEWER 1-316-219-8921
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
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 CITY 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 NOTICE OF 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 SHALL 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 ENGINEERING 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 FINAL GRADES BY THE CONTRACTOR.
- THE CONTRACTOR SHALL NOTIFY THE INSPECTING ENGINEER AND DAWNITA REINHARDT AT 316-268-4574 WITH THE CITY OF WICHITA WITH THE ANTICIPATED CONSTRUCTION START DATE AND NOTIFY THEM OF PROJECT COMPLETION. STAKING AND INSPECTION OF 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, MIKE ARMOUR 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 U.S. DEPT. OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION. ALL COSTS ASSOCIATED WITH CONSTRUCTION MARKINGS AND SIGNAGE SHALL BE THE CONTRACTOR'S 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.
- ANY SIDEWALK, DRIVE APPROACH, CURB, 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.
- ALL APPLICABLE FEES (TAP, EQUITY, IN LIEU OF & MAIN BENEFIT) MUST BE PAID FOR BEFORE ANY CONSTRUCTIONS CAN BE MADE ON THIS PROJECT. QUOTES CAN BE OBTAINED ON FEES BY CALLING 316-268-4555.
- CITY MAINTENANCE OF WATER MAINS ENDS AT RIGHT-OF-WAY OR EASEMENT LINE OR WITHIN TWO FEET OF VAULT.
- OPENING AND CLOSING OF WATER VALVES SHALL BE DONE SLOWLY TO PREVENT DAMAGE TO THE WATER DISTRIBUTION SYSTEM FROM WATER HAMMER. ALL VALVES CLOSED BY THE CONTRACTOR MUST BE REOPENED AS NEW CONSTRUCTION PERMITS. THE PROJECT INSPECTOR MUST ASCERTAIN THAT ANY VALVE CLOSED BY THE CONTRACTOR IS REOPENED. THE CONTRACTOR WILL BE PERMITTED TO OPERATE WATER VALVE ONLY WHEN THE PROJECT INSPECTOR ASSIGNED TO THE PROJECT IS PRESENT.
- THE CONTRACTOR SHALL LAY A TRACER WIRE AND SET TEST STATIONS ALONG ALL WATER PIPE INSTALLED IN ACCORDANCE WITH CITY SPECIFICATIONS AND TRACER WIRE DETAIL ON DETAIL SHEET WL-101, COST IS SUBSIDIARY TO PIPE INSTALLATION.
- THE CONTRACTOR SHALL PROVIDE MATERIALS FOR TEMPORARY BLOWOFF OF WATERLINES. CONNECTIONS TO THE EXISTING WATERLINE(S) SHALL BE MADE WITH CLEAN, SWABBED PIPE AND FLUSHED UPON COMPLETION OF TIE-INS.
- REQUESTS FOR SHORT TERM WATER INTERRUPTIONS SHALL BE MADE TO THE CITY WATER DISTRIBUTION DIVISION AND WILL BE MADE SUBJECT TO THEIR APPROVAL. THE CONTRACTOR SHALL GIVE WRITTEN NOTICE TO ANY PROPERTY OWNER, BUSINESS, AND/OR TENANTS THAT WILL HAVE WATER SERVICE INTERRUPTED AT LEAST 5 DAYS IN ADVANCE. SUCH NOTIFICATIONS SHOULD INDICATE THE TIME AND DATE THAT THE WATER WILL BE TURNED OFF AND WHEN THE SERVICE WILL BE RESTORED. NO BUSINESS, PROPERTY OWNER, AND/OR TENANTS SHALL BE WITHOUT WATER SERVICE FOR MORE THAN 8 HOURS. PROPOSED TIE IN LOCATIONS WHICH WILL AFFECT WATER SERVICE TO PROPERTY OWNERS SHALL BE PERFORMED DURING NON-PEAK HOURS.
- THE CONTRACTOR MUST SCHEDULE THE CONNECTIONS TO THE EXISTING MAIN WITH THE CITY SUCH THAT THERE IS A MINIMUM DISRUPTION OF SERVICE. CONNECTIONS SHALL BE MADE DURING PERIODS OF LOW WATER USAGE. THE CONTRACTOR SHALL SUBMIT HIS PROPOSED SCHEDULE FOR COMPLETING WORK FOR CITY APPROVAL AT LEAST 10 DAYS PRIOR TO BEGINNING CONSTRUCTION.
- DEFLECTIONS AT PIPE JOINT OR COUPLINGS SHALL NOT EXCEED THE PIPE MANUFACTURERS MAXIMUM. WHERE DEFLECTIONS ARE GREATER THAN THE MAXIMUM ALLOWED, THE CONTRACTOR SHALL UTILIZE FITTINGS.
- ANY EXISTING JOINT EXPOSED DURING EXCAVATION SHALL BE REPLACED IF WITHIN FOUR FEET OF PROPOSED JOINT.
- VALVES 12 INCH AND LARGER ARE TO BE OPERATED BY THE CITY WATER DISTRIBUTION DIVISION, 48 HOURS OF ADVANCE NOTICE IS REQUIRED WITH THE WATER DISPATCH AT 316-291-8921.
- ALL WET TAPS SHALL BE INSTALLED BY THE CITY OF WICHITA. THE CONTRACTOR WILL REIMBURSE THE CITY FOR TAPPING FEES PRIOR TO TAP BEING MADE, UNLESS NOTED ON PLANS.
- THE CONTRACTOR SHALL PROTECT FROM DAMAGE AND SUPPORT EXISTING UTILITIES THROUGH CONSTRUCTION AS APPROVED BY THE UTILITY OWNER AND THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL LIMIT THE EXTENT OF TRENCH OPENINGS OVERNIGHT AND WEEKENDS TO LESS THAN 50 FEET.
- WICHITA FIRE DEPARTMENT INSPECTIONS MAY BE SCHEDULED BY CALLING 316-268-4441.
- THE CITY ENGINEERING DEPARTMENT WILL INSPECT THE FIRE LINE.

WATER DISTRIBUTION SYSTEM

TO SERVE

CLUB CARWASH

141 S. ROCK RD.

CITY OF WICHITA, KANSAS

GARY JANZEN, P.E. CITY ENGINEER

PROJECT NUMBER

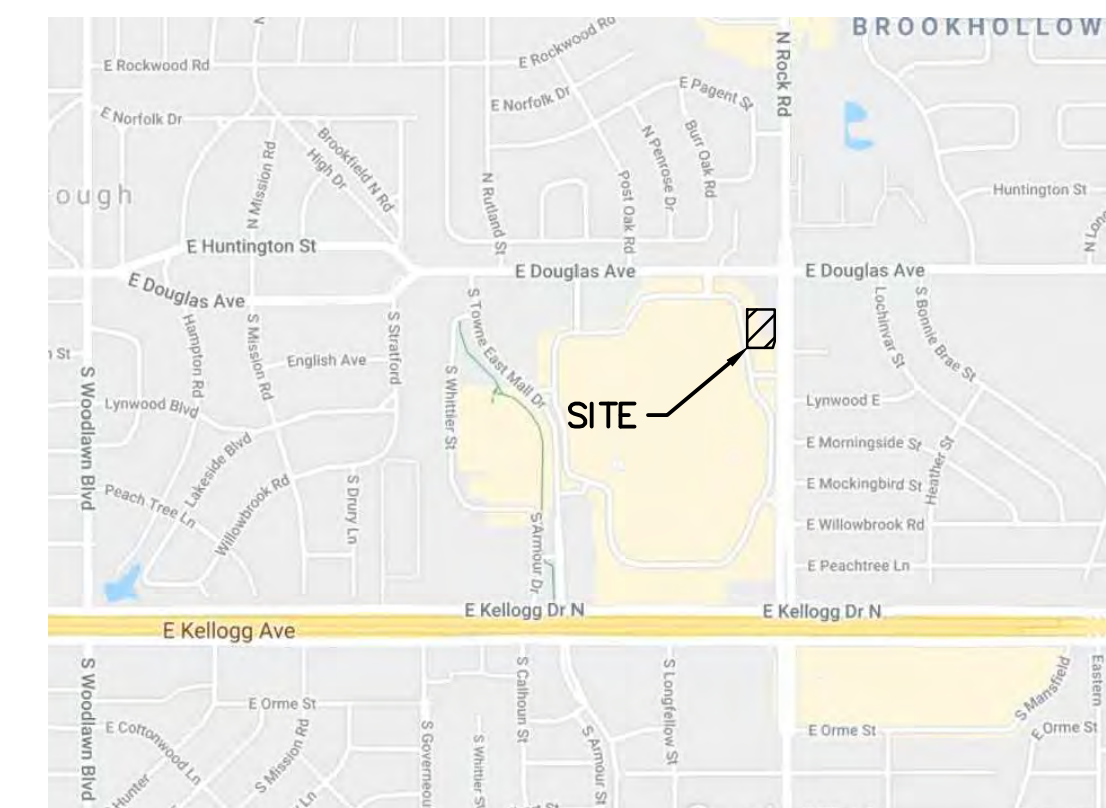
PPW-2020-034415 (183021)

Fittings in Easement

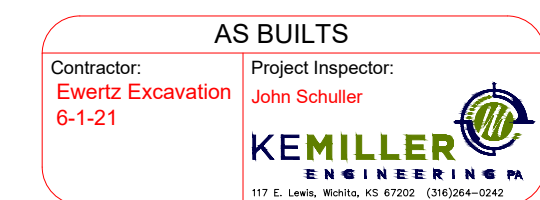
8" Coupler - 404' south of the center line of Douglas Ave. and 0.5' west of back of curb Rock Road.
8" Valve - 404' south of the center line of Douglas Ave. and 3.5' west of back of curb Rock Road.

Material List

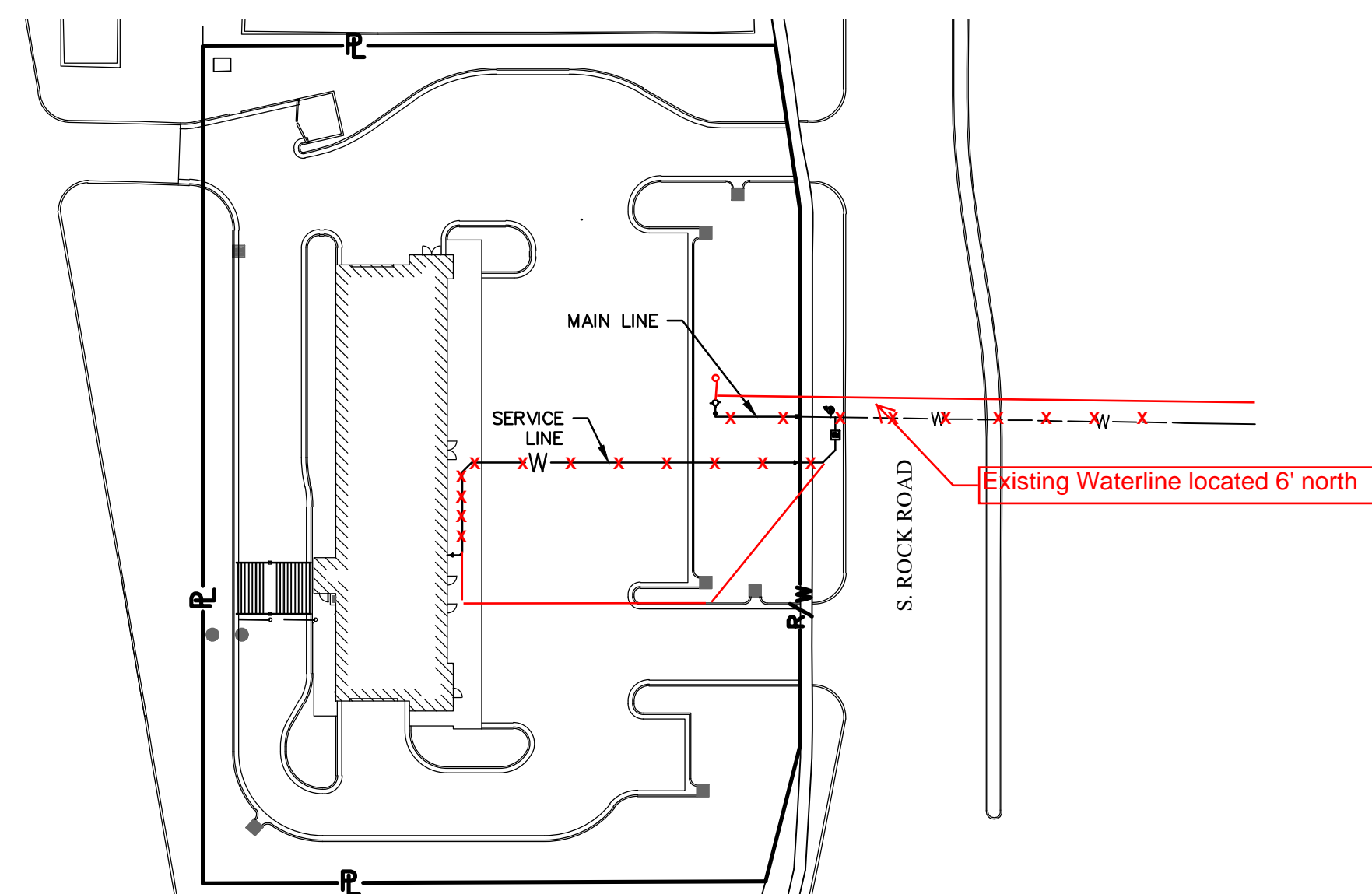
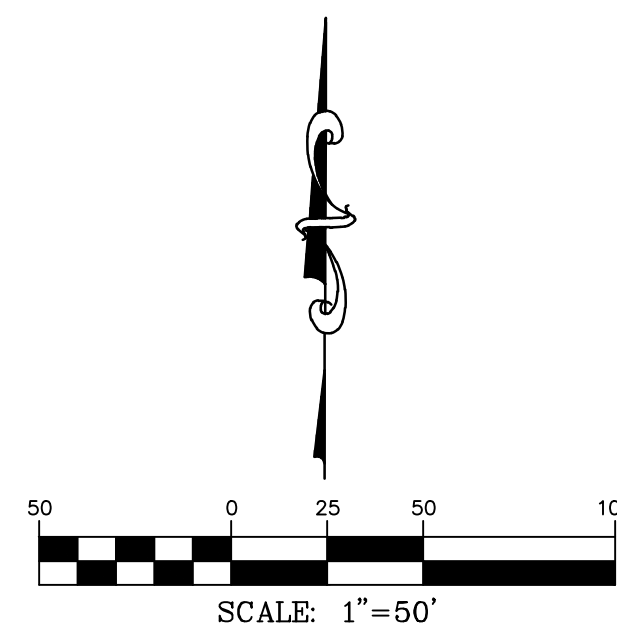
Quantum Coupler
Muller Fire Hydrant Assembly (STORZ)



VICINITY MAP
NO SCALE



SHEET INDEX	SHEET
SITE PLAN	1
PLAN AND PROFILE	2
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DETAILS/SPECIFIC/EROSION CONTROL	5
DETAILS/SPECIFIC/EROSION CONTROL	6
DETAILS/SPECIFIC/EROSION CONTROL	7
DETAILS/SPECIFIC/EROSION CONTROL	8



NOVEMBER, 2020
REVISED DECEMBER 9, 2020
REVISED DECEMBER 17, 2020



- CIVIL ENGINEERING
- LAND SURVEYING
- ARCHITECTURE
- SITE DEVELOPMENT
- MASTER PLANNING
- GENERAL CONSULTING

8 EAST MAIN STREET, WENTZVILLE, MISSOURI 63385
TELEPHONE (636) 332-4574
FAX (636) 327-0760
E-MAIL wentmail@cochraneng.com

APPROVED AS NOTED
BY WICHITA PUBLIC WORKS
ENGINEERING DIVISION
& BY WICHITA FIRE DEPARTMENT

ENGINEERING SHAWN MELLIES 12-22-2020
UTILITIES GREG LOLLEY 12-22-2020
FIRE DEPT. JOSE OCADIZ 12-22-2020

NOTE TO CONTRACTORS

PUBLIC PROPERTY:
INSPECTION AND TESTING FOR THE WATERLINE IS TO BE PROVIDED BY A LICENSED CONSULTING ENGINEERING FIRM UNDER CONTRACT WITH THE OWNER/DEVELOPER. SAID INSPECTION IS TO BE IN ACCORDANCE WITH THE CITY OF WICHITA STANDARD CONSTRUCTION ENGINEERING PRACTICES AND CERTIFIED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF KANSAS. 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 CITY ENGINEERING. ALL CONSTRUCTION AND MATERIALS SHALL COMPLY WITH THE CITY OF WICHITA SPECIFICATIONS AND STANDARDS AND SPECIAL PROVISION (ON FILE AND AVAILABLE IN THE CITY ENGINEER'S OFFICE) OR ON THE CITY'S WEBSITE.

PRIVATE PROPERTY:
INSTALLATION AND TESTING FOR THE FIRE PROTECTION LINE IS TO BE PERFORMED BY A CITY OF WICHITA LICENSED FIRE PROTECTION CONTRACTOR IN ACCORDANCE WITH THE FIRE CODES AS ADOPTED BY THE CITY OF WICHITA. ALL MATERIAL AND CONSTRUCTION PRACTICES FOR THE FIRE PROTECTION LINE SHALL COMPLY WITH THE FIRE CODES AS ADOPTED BY THE CITY OF WICHITA (AVAILABLE FROM THE CITY OF WICHITA FIRE DEPARTMENT). THE CONTRACTOR SHALL NOT COMMENCE WORK WITHOUT NOTIFICATION AND APPROVAL OF THE WICHITA FIRE DEPARTMENT. INSPECTION OF THE FIRE PROTECTION LINE IS TO BE PROVIDED BY A LICENSED ENGINEERING FIRM UNDER CONTRACT WITH THE OWNER/DEVELOPER AND THE FIRE DEPARTMENT. THE CONTRACTOR SHALL NOT START WORK UNTIL THE PROJECT INSPECTOR IS ASSIGNED TO THE PROJECT AND PRESENT ON THE SITE. ANY WORK DONE WITHOUT INSPECTION WILL BE REQUIRED TO BE UNCOVERED FOR INSPECTION.

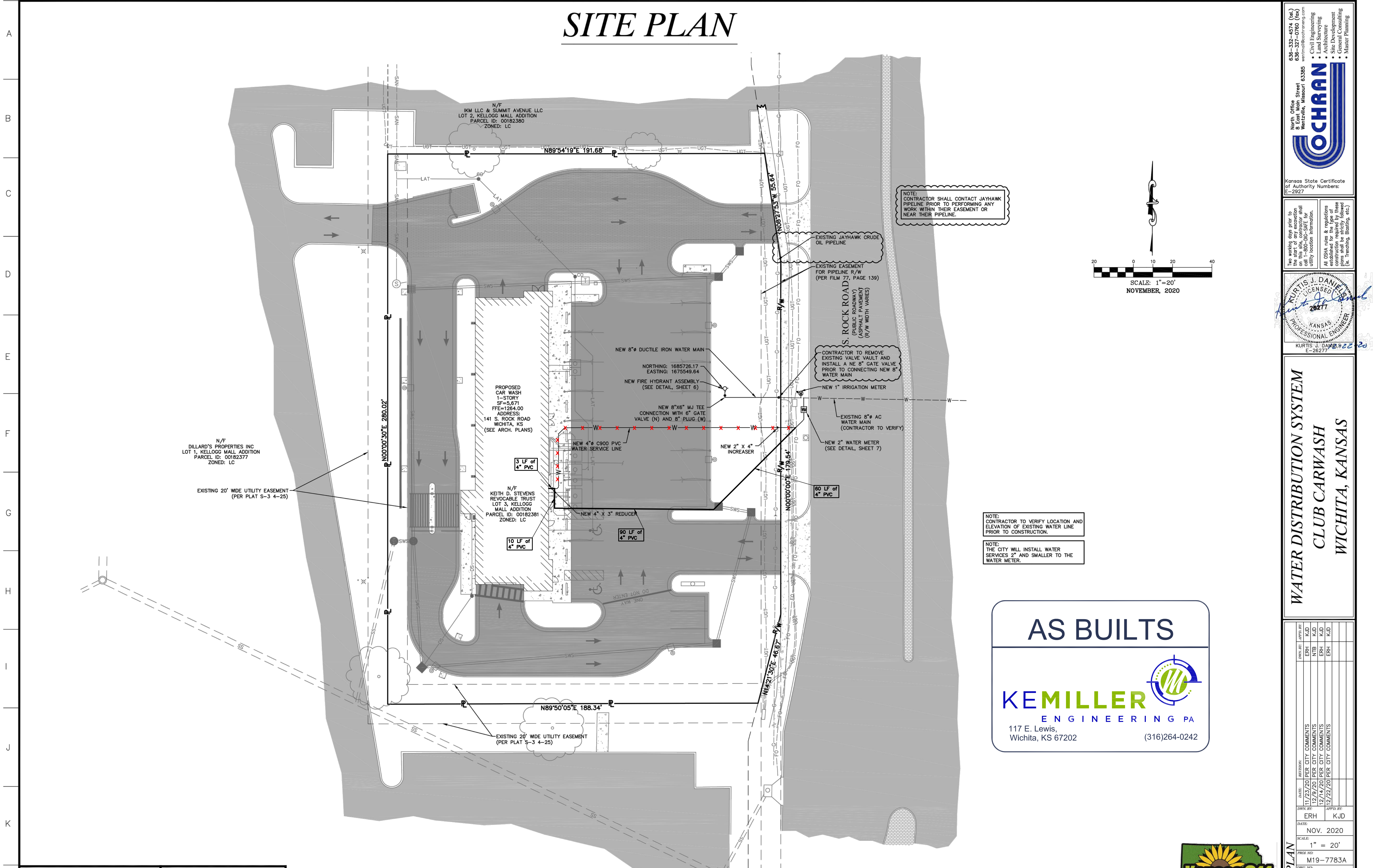
AN APPROVED COPY OF THESE PLANS SIGNED BY CITY STAFF ARE REQUIRED ON-SITE.



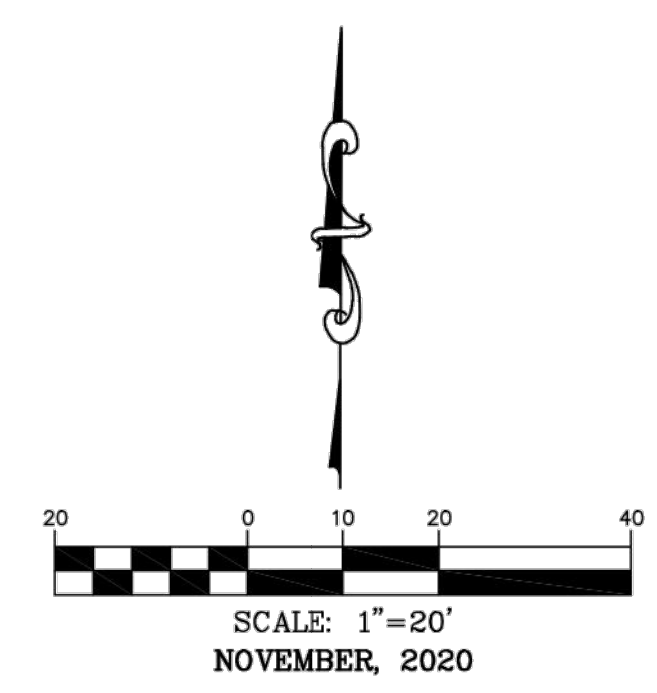
12-22-20



SITE PLAN



NOTE:
CONTRACTOR SHALL CONTACT JAYHAWK PIPELINE PRIOR TO PERFORMING ANY WORK WITHIN THEIR EASEMENT OR NEAR THEIR PIPELINE.




CONTRACTOR TO REMOVE EXISTING VALVE VAULT AND INSTALL A NE 8\"/>

NOTE:
CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING WATER LINE PRIOR TO CONSTRUCTION.

NOTE:
THE CITY WILL INSTALL WATER SERVICES 2\"/>

AS BUILTS




KEMILLER
ENGINEERING PA

117 E. Lewis,
Wichita, KS 67202

(316)264-0242

<p>OWNER: KEITH D. STEVENS REVOCABLE TRUST 231 N. CRESTWAY ST WICHITA, KS 67208</p>	<p>DEVELOPER: CLUB CARWASH OPERATING, LLC 1213 OLD HWY 63, STE 101 COLUMBIA, MO 65201</p>
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OCHRAN
ENGINEERING & ARCHITECTURE

North Office
1001 North Street
Wentzville, Missouri 63385
Phone: 636-339-4774 (cell)
636-337-0760
www.ochrane.com

Kansas State Certificate of Authority Numbers:
E-2827

Two weeks prior to the start of any excavation on this site, contractor shall notify utility location information. All OSHA rules & regulations established for the type of construction required by these drawings shall be followed (i.e. trenching, blasting, etc.)

KURTIS J. DANIELS

LICENSED PROFESSIONAL ENGINEER

KANSAS

KURTIS J. DANIELS E-26277

WATER DISTRIBUTION SYSTEM

CLUB CARWASH

WICHITA, KANSAS

DATE	BY	REVISION

SITE PLAN

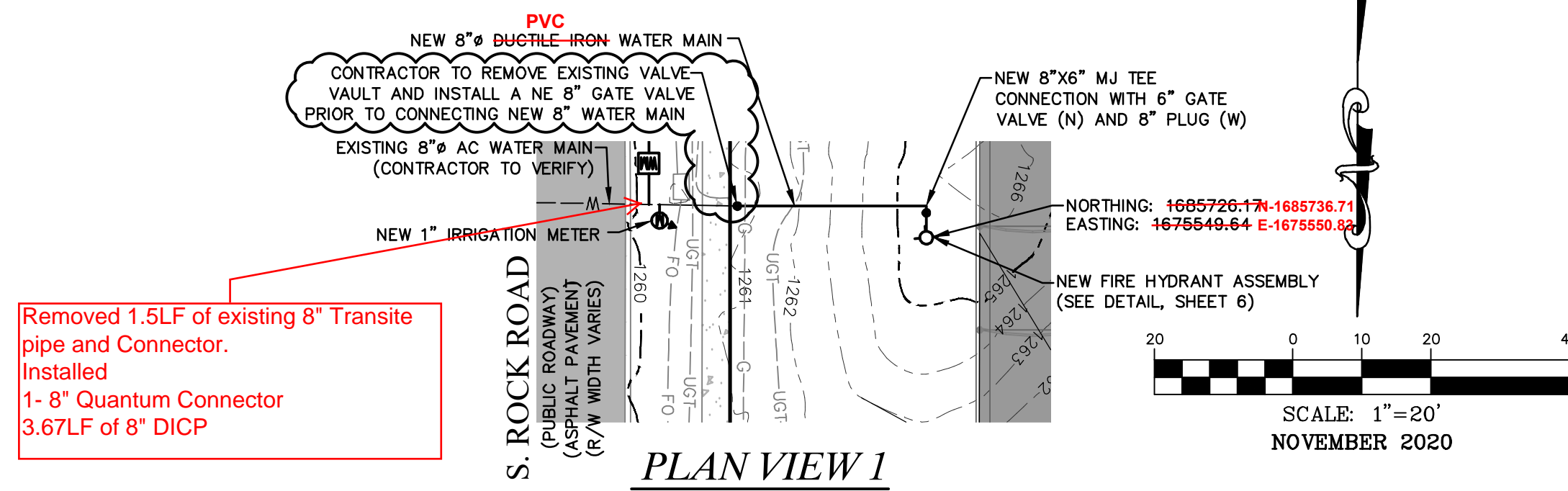
SCALE: 1" = 20'

PROJ. NO: M19-7783A

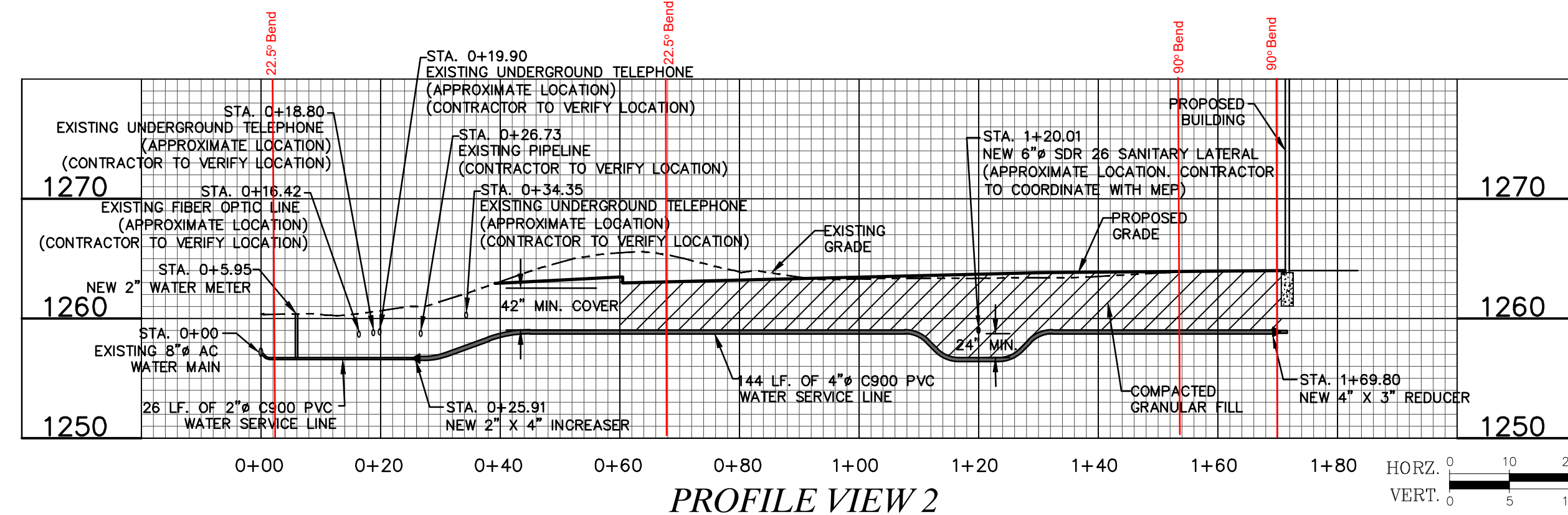
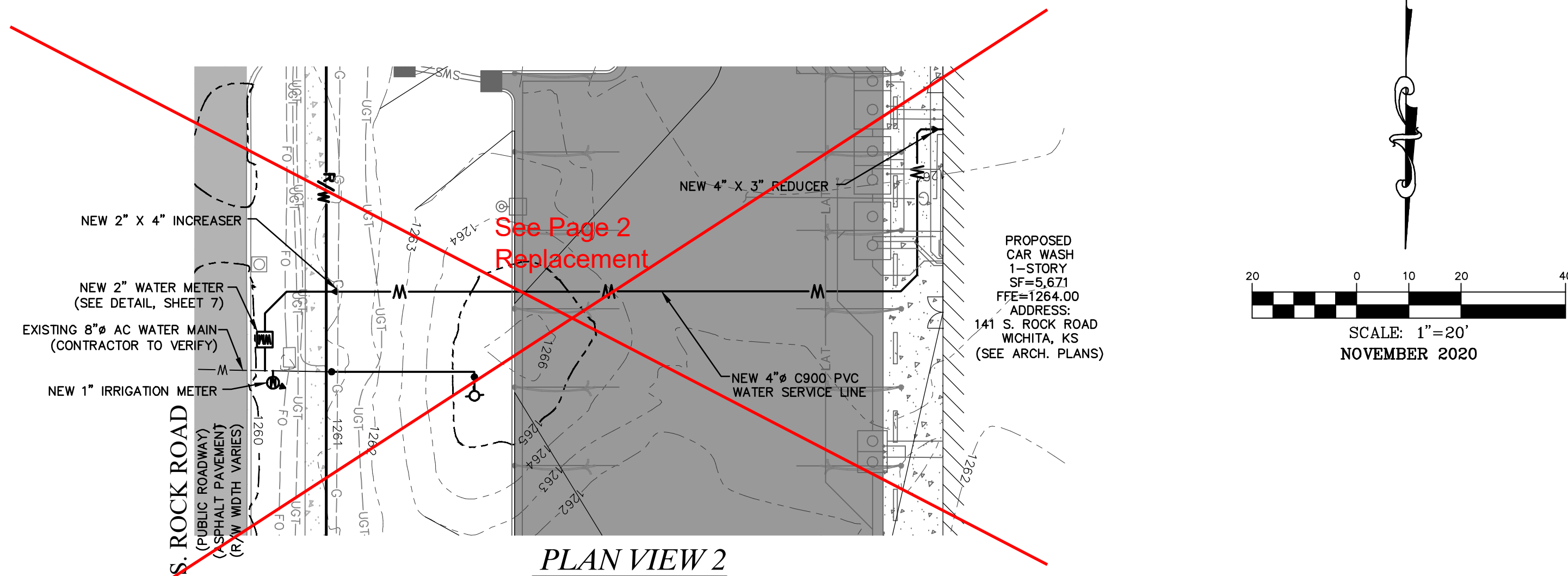
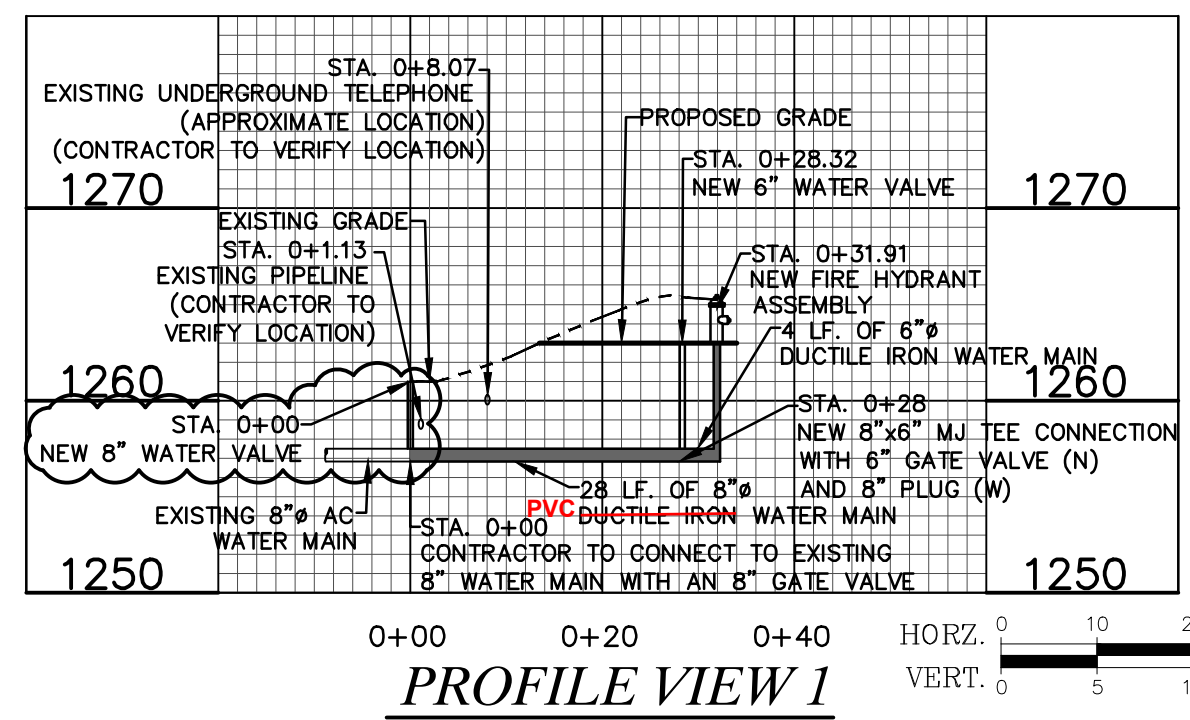
DWG. NO: 1



PLAN AND PROFILE



NOTE:
CONTRACTOR TO VERIFY SIZE OF EXISTING WATER MAIN.



OWNER:
KEITH D. STEVENS REVOCABLE TRUST
231 N. CRESTWAY ST
WICHITA, KS 67208

DEVELOPER:
CLUB CARWASH OPERATING, LLC
1213 OLD HWY 63, STE 101
COLUMBIA, MO 65201

636-332-4574 (tel.)
636-327-0760 (fax)
www.ochran.com

COCHRAN

- Civil Engineering
- Land Surveying
- Architecture
- Site Development
- General Consulting
- Master Planning

North Office
8 East Main Street
Wentzville, Missouri 63385

Kansas State Certificate of Authority Numbers:
E-2927

Two working days prior to the start of any excavation work, the contractor shall call 1-800-HIG-SAFE for utility location information.

All OSHA rules & regulations shall be strictly followed (i.e. trenching, blasting, etc.).

KURTIS J. DANIEL
LICENSED PROFESSIONAL ENGINEER
KANSAS
20277

**WATER DISTRIBUTION SYSTEM
CLUB CARWASH
WICHITA, KANSAS**

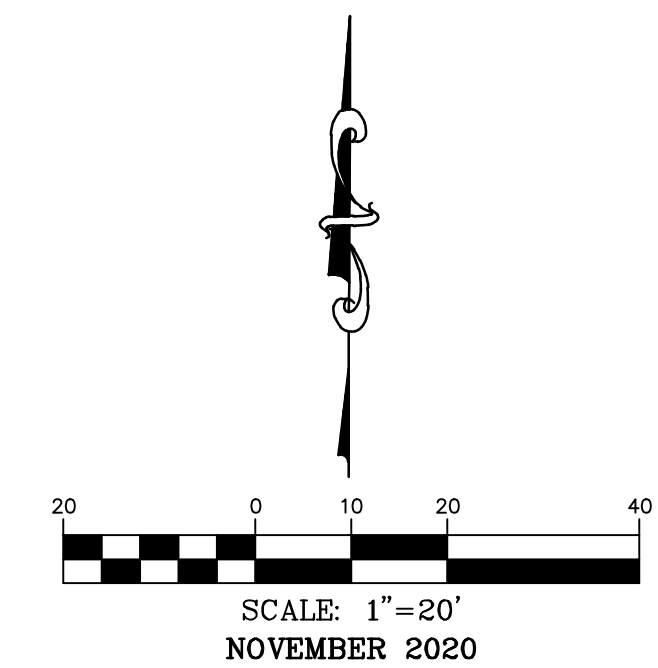
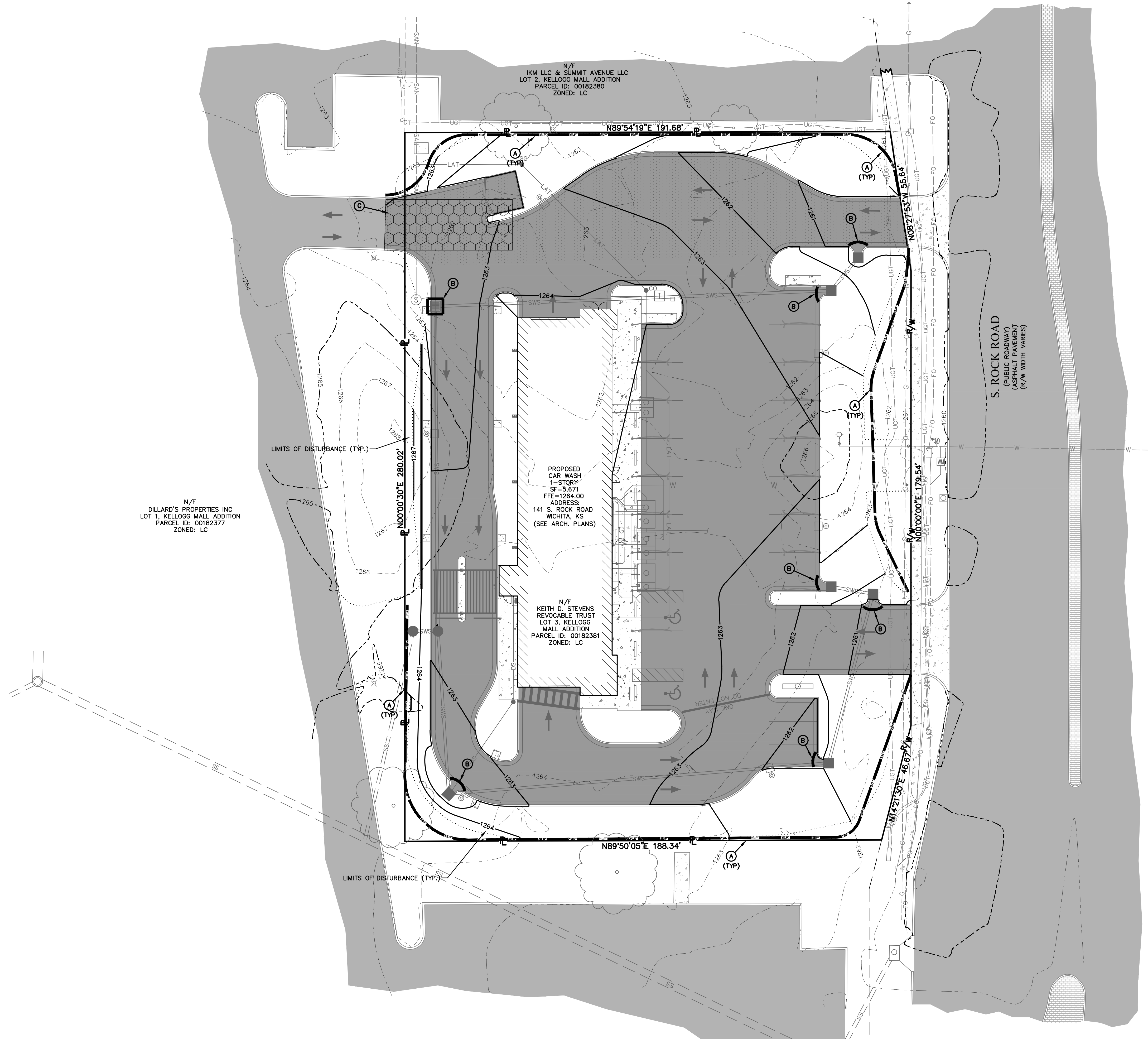
DATE	BY	REVISION
11/23/20	ERH	PER CITY COMMENTS
12/9/20	ERH	PER CITY COMMENTS
12/14/20	ERH	PER CITY COMMENTS
12/22/20	ERH	PER CITY COMMENTS

DATE: NOV. 2020
SCALE: 1" = 20'
1" = 10'
PROJ. NO.: M19-7783A
DWG. NO.: 2



DWG NAME: J:\2019\M19-7783-141 S. Rock Rd. Wichita, KS\ENGINEERING\AUTOCAD DRAWINGS\03_Construction Drawings\03_WATER DISTRIBUTION SYSTEM PLANS\M19-7783A_2_PLAN AND PROFILE.dwg LAYOUT TAB: 2 PLOTTED ON: Dec 22, 2020 - 10:24am PLOTTED BY: Eheckman

EROSION CONTROL PLAN



SWPPP LEGEND

- (A) NEW SILT FENCE. SEE DETAIL, SHEET 5.
- (B) NEW INLET PROTECTION. SEE DETAIL, SHEET 5.
- (C) NEW CONSTRUCTION ENTRANCE. SEE DETAIL, SHEET 4.

N/F
DILLARD'S PROPERTIES INC
LOT 1, KELLOGG MALL ADDITION
PARCEL ID: 00182377
ZONED: LC

PROPOSED
CAR WASH
1-STORY
SF=3,671
FFE=1264.00
ADDRESS:
141 S. ROCK ROAD
WICHITA, KS
(SEE ARCH. PLANS)

N/F
KEITH D. STEVENS
REVOCABLE TRUST
LOT 3, KELLOGG
MALL ADDITION
PARCEL ID: 00182381
ZONED: LC

S. ROCK ROAD
(PUBLIC ROADWAY)
(R/W WIDTH VARIES)



OWNER:
KEITH D. STEVENS REVOCABLE TRUST
231 N. CRESTWAY ST
WICHITA, KS 67208

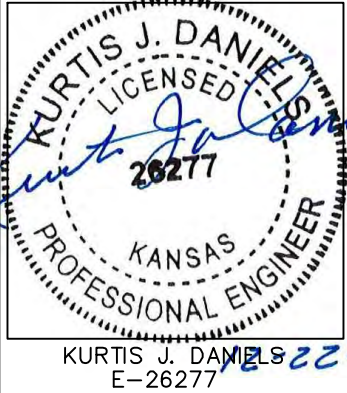
DEVELOPER:
CLUB CARWASH OPERATING, LLC
1213 OLD HWY 63, STE 101
COLUMBIA, MO 65201

636-332-4574 (tel.)
636-327-0760 (fax)
www.ochran.com



Kansas State Certificate
of Authority Numbers:
E-2927

Two working days prior to
the start of any excavation
call 1-800-485-SAFE for
utility location information.
All OSHA rules & regulations
and state rules & regulations
governing excavation
construction shall be strictly followed
(i.e. trenching, blasting, etc.)

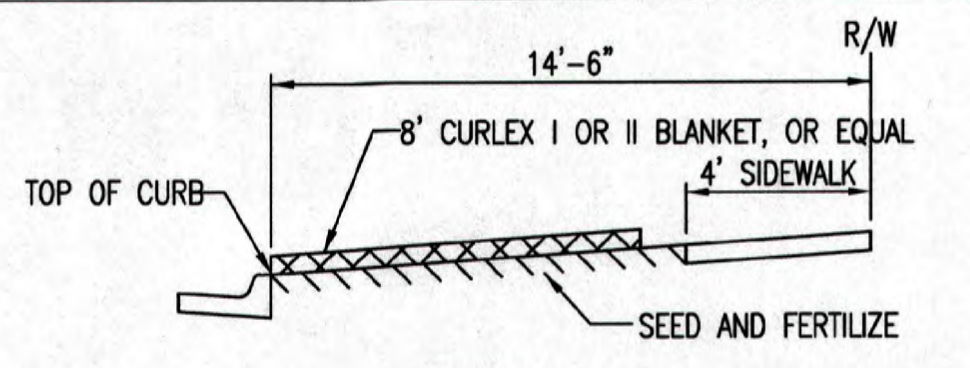


WATER DISTRIBUTION SYSTEM
CLUB CARWASH
WICHITA, KANSAS

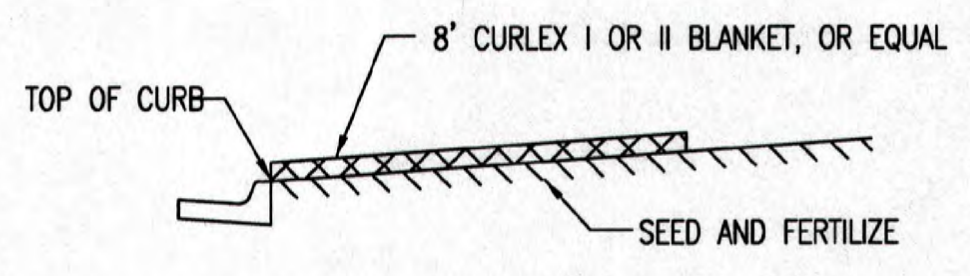
DATE	REVISION	APP'D. BY
11/23/20	PER CITY COMMENTS	ERH
12/9/20	PER CITY COMMENTS	NTB
		KJD

EROSION CONTROL PLAN

DATE: NOV. 2020
SCALE: 1" = 20'
PROJ. NO.: M19-7783A
DWG. NO.: 3

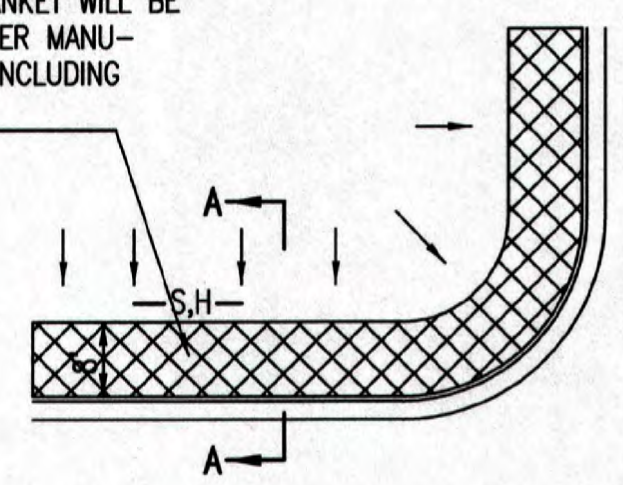


SECTION B-B

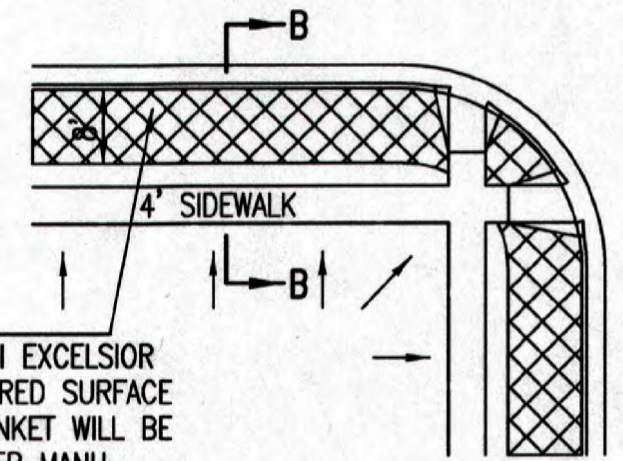


SECTION A-A

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 MANUFACTURER'S RECOMMENDATION, INCLUDING STAPLES. (SEE DETAIL)



SOUTH STREET

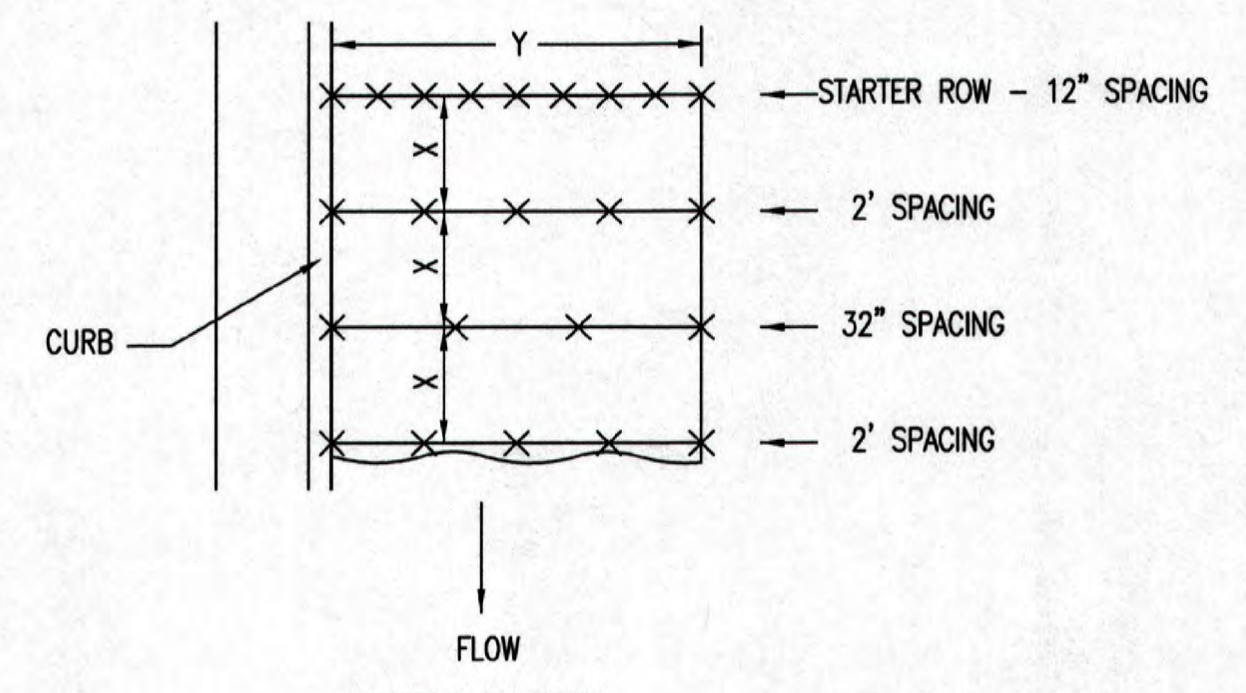


INSTALL 8' WIDE CURLEX I OR II EXCELSIOR BLANKET, OR EQUAL, ON PREPARED SURFACE BACK OF CURB. EDGE OF BLANKET WILL BE AT BACK OF CURB. INSTALL PER MANUFACTURER'S RECOMMENDATION, INCLUDING STAPLES. (SEE DETAIL)

GENERAL NOTES

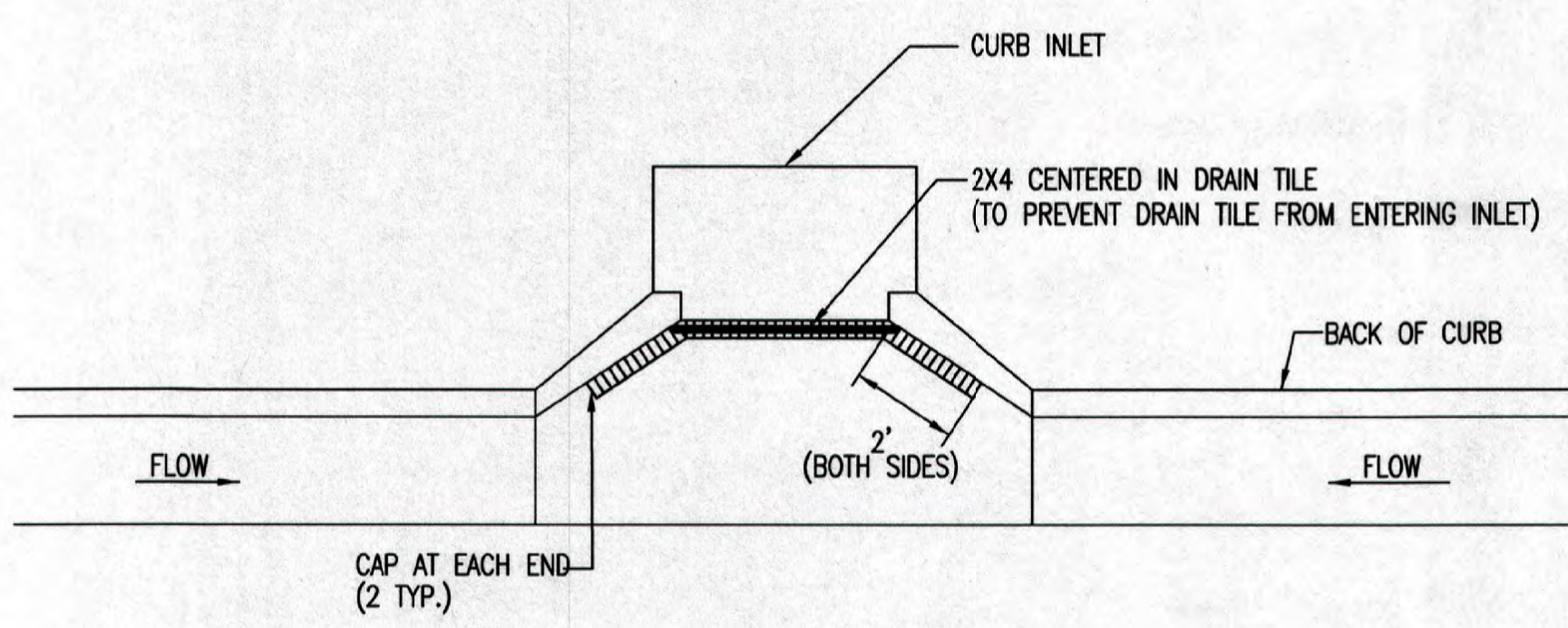
- EXCELSIOR MAT TO BE INSTALLED WHEN SOD IS NOT SPECIFIED ON PROJECT.
- EXCELSIOR BLANKET TO BE INSTALLED OVER SEED AND FERTILIZER, AS SPECIFIED IN THE PROJECT SPECIFICATIONS.
- AFTER INSTALLATION OF EXCELSIOR BLANKET, AT LOCATIONS WHERE CONCENTRATED FLOW CARRIES SEDIMENT OVER THE CURB AND INTO THE GUTTER,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

BACK OF CURB PROTECTION DETAIL



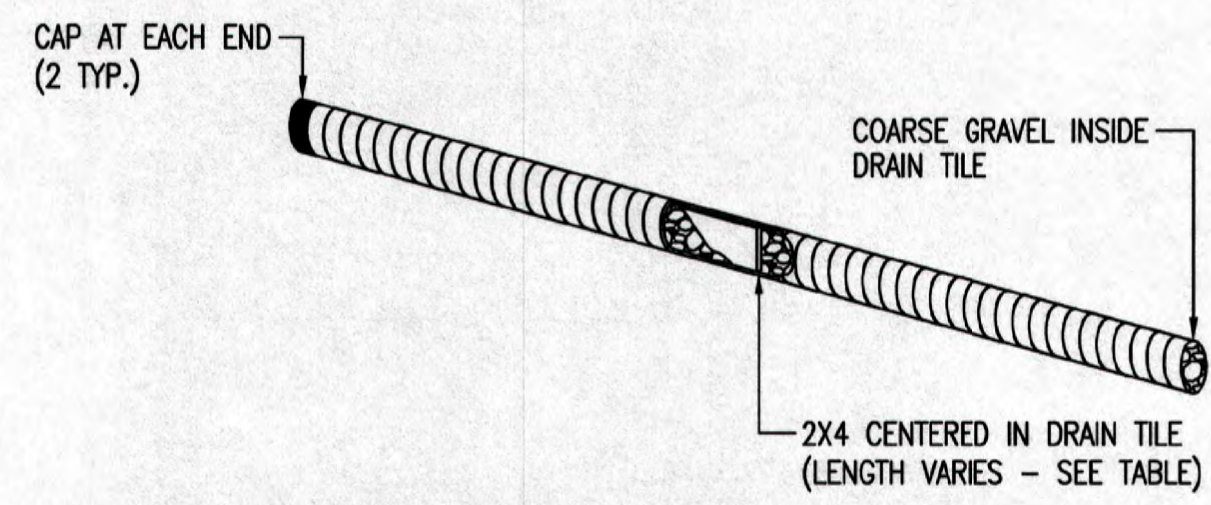
NOTES: USE 6" SEAM OVERLAP (X & Y = RECOMMENDED BY MANUFACTURE)

DETAILS FOR APPROVED EROSION CONTROL MAT

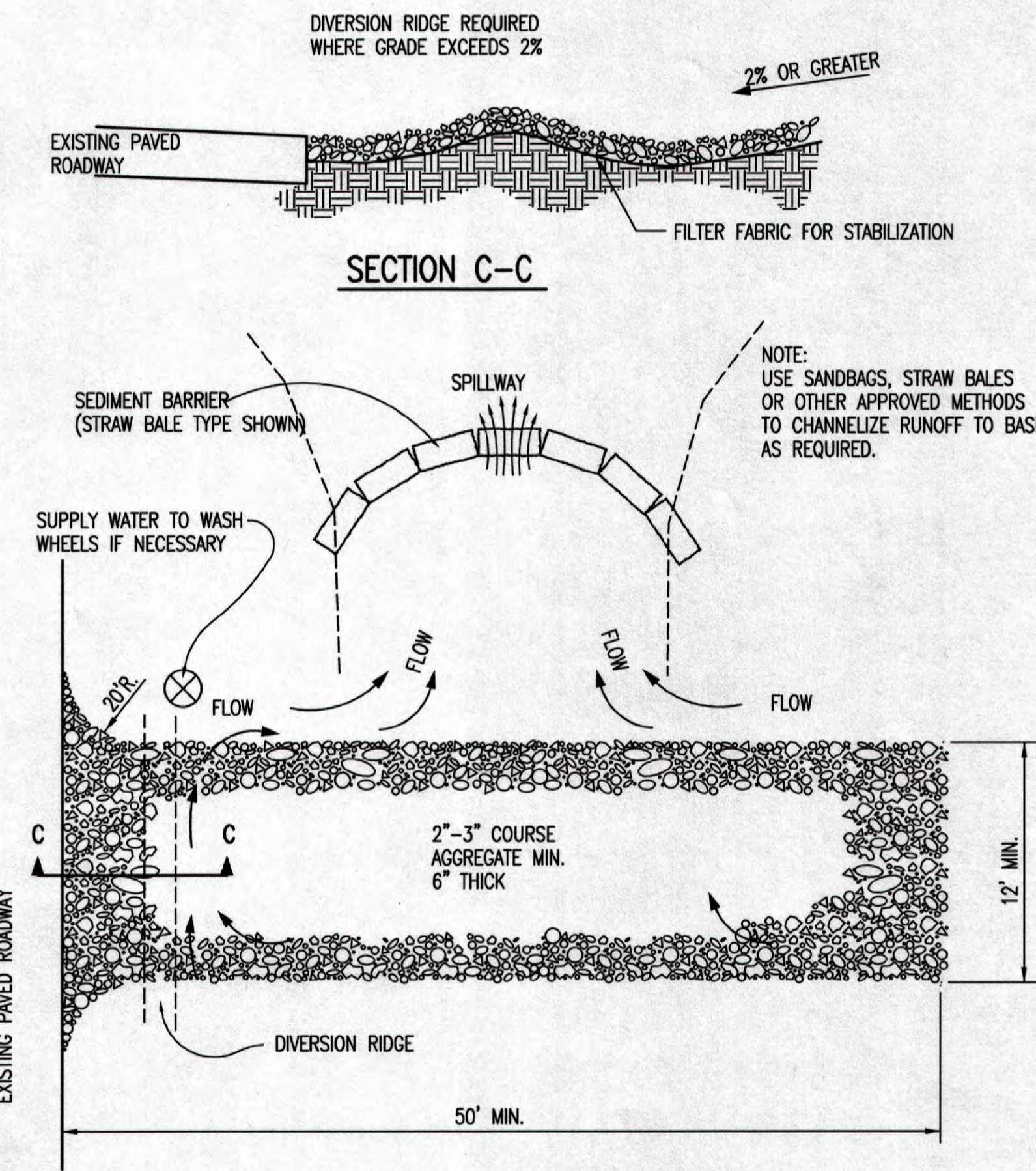


NOTE: PLACE 4" PERFORATED PVC PIPE, FILLED WITH 1/2"-1" DIA. GRAVEL, IN FRONT OF CURB INLET AS SHOWN.

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



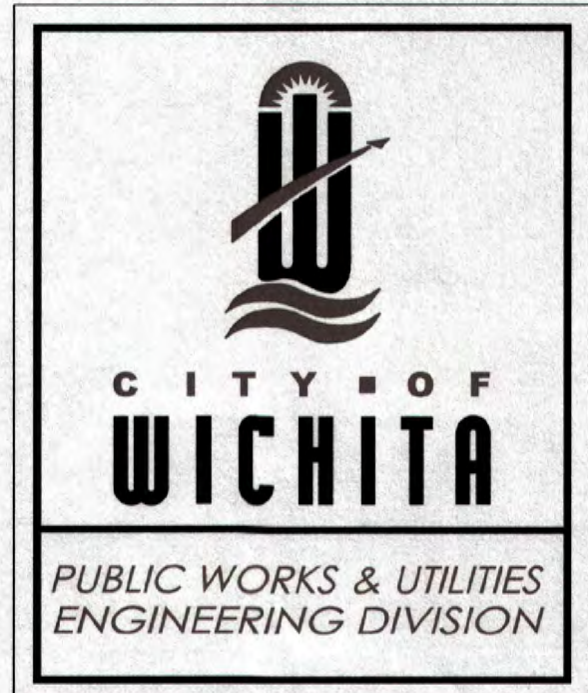
CURB INLET PROTECTION
4" PERFORATED PIPE W/ GRAVEL



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	SHEET	
CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		

OWNER: KEITH D. STEVENS REVOCABLE TRUST 231 N. CRESTWAY ST WICHITA, KS 67208	DEVELOPER: CLUB CARWASH OPERATING, LLC 1213 OLD HWY 63, STE 101 COLUMBIA, MO 65201
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636-332-4574 (tel.)
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- Civil Engineering
- Land Surveying
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- Master Planning

North Office
8 East Main Street
Wentzville, Missouri 63385

Kansas State Certificate of Authority Numbers:
E-2927

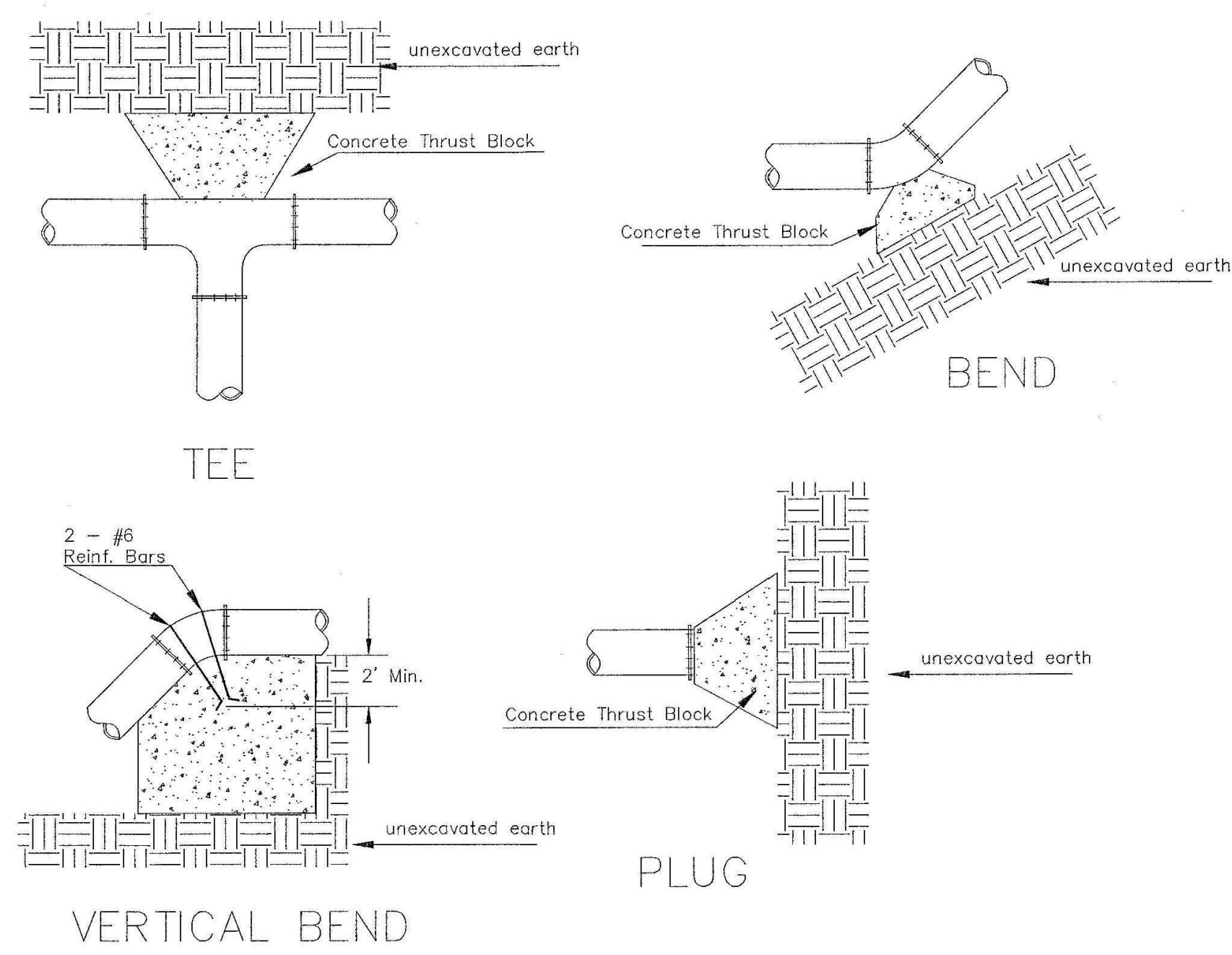
Two working days prior to the start of any excavation call 1-800-HIG-SAFE for utility location information.

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KURTIS J. DANIELS
LICENSED PROFESSIONAL ENGINEER
KANSAS
E-26277

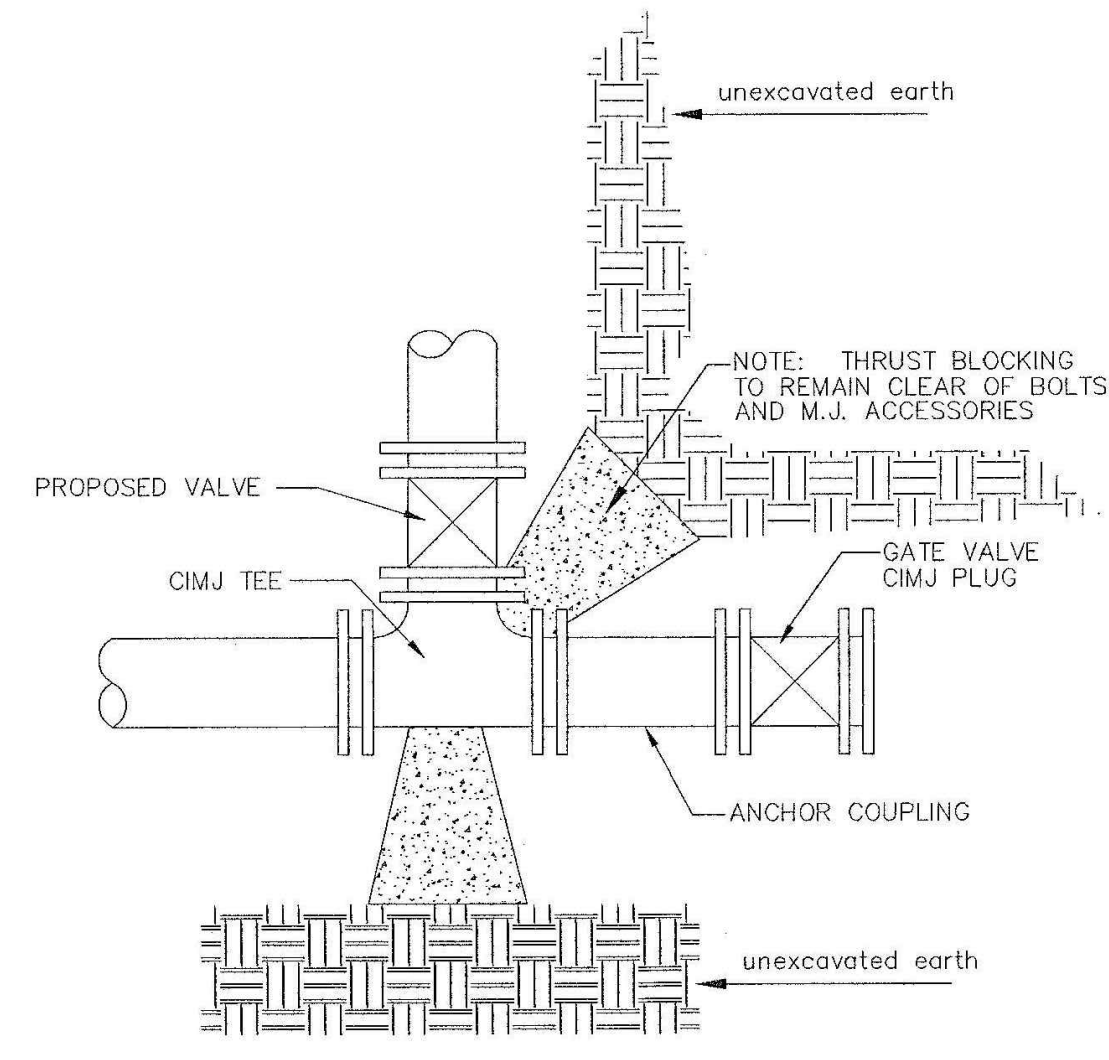
WATER DISTRIBUTION SYSTEM
CLUB CARWASH
WICHITA, KANSAS

DATE:	DESIGN:	DRAWN BY:	APPROVED BY:
NOV. 2020	NO SCALE	NOV. 2020	NOV. 2020
PROJECT NO:	M19-7783A	SHEET	
DWG. NO:	4	4	



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

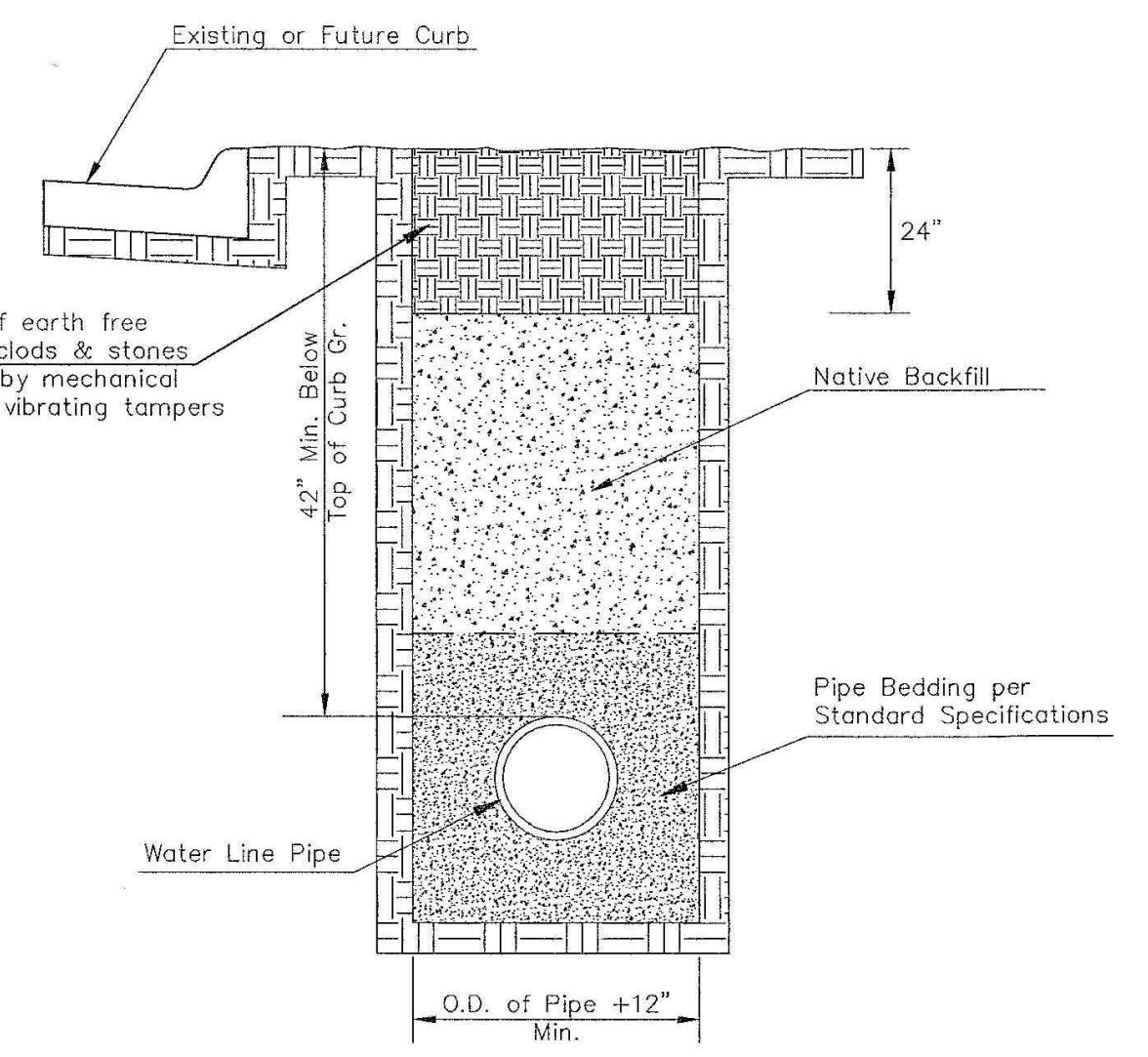
TYPICAL THRUST BLOCKS



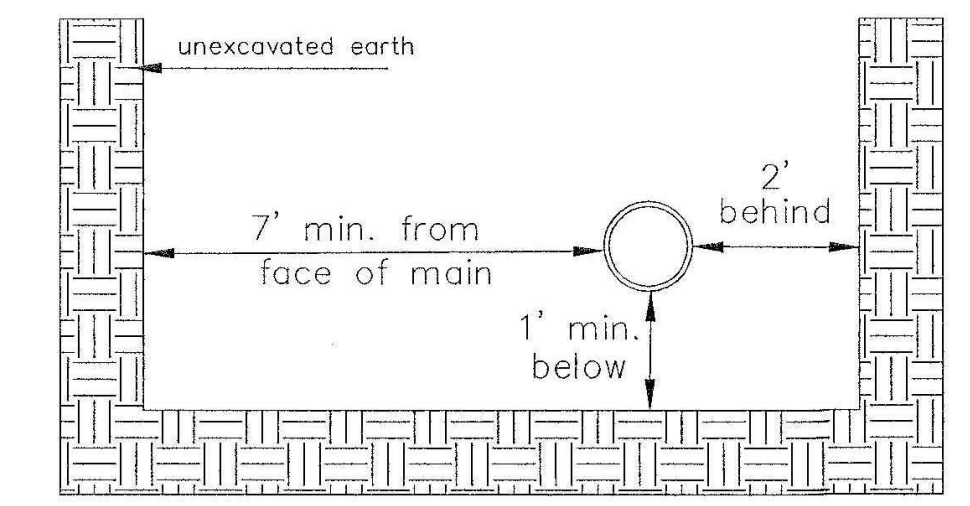
KEY BLOCK DETAIL

* PLANS GOVERN UNLESS OTHERWISE NOTED ON PLANS

TRENCH COMPACTION IN ROAD RIGHT-OF-WAY

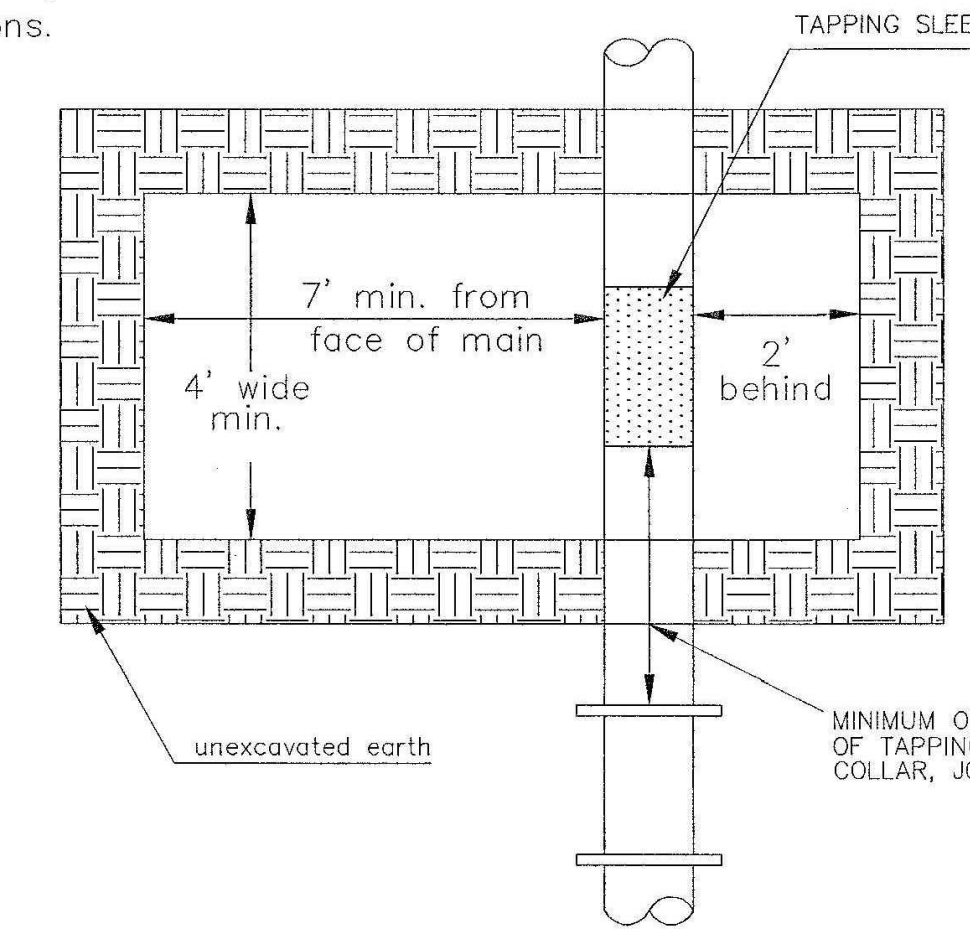


SIDE VIEW

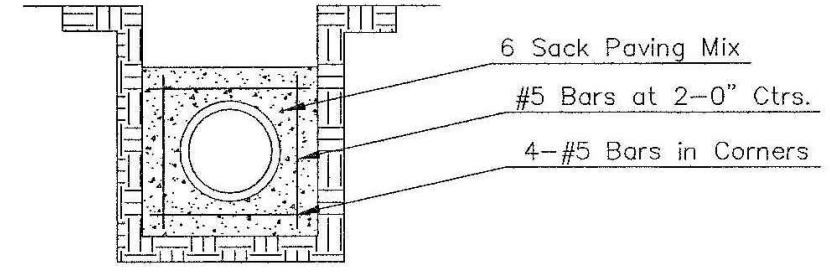
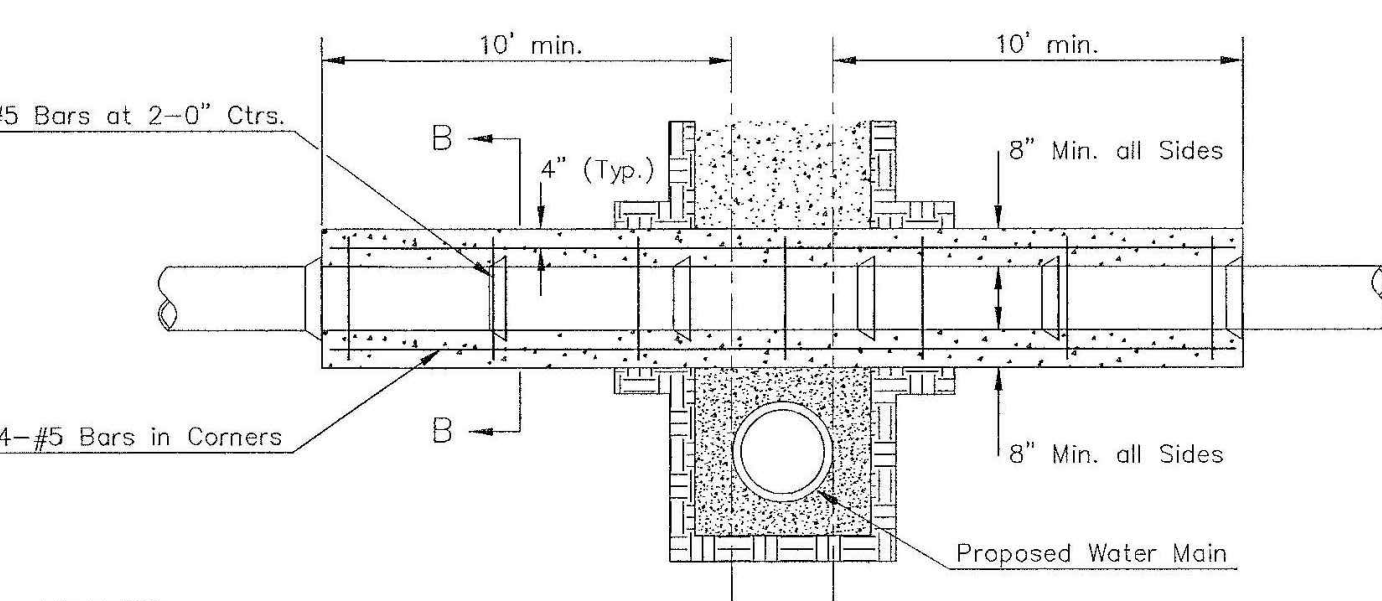


TOP VIEW

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



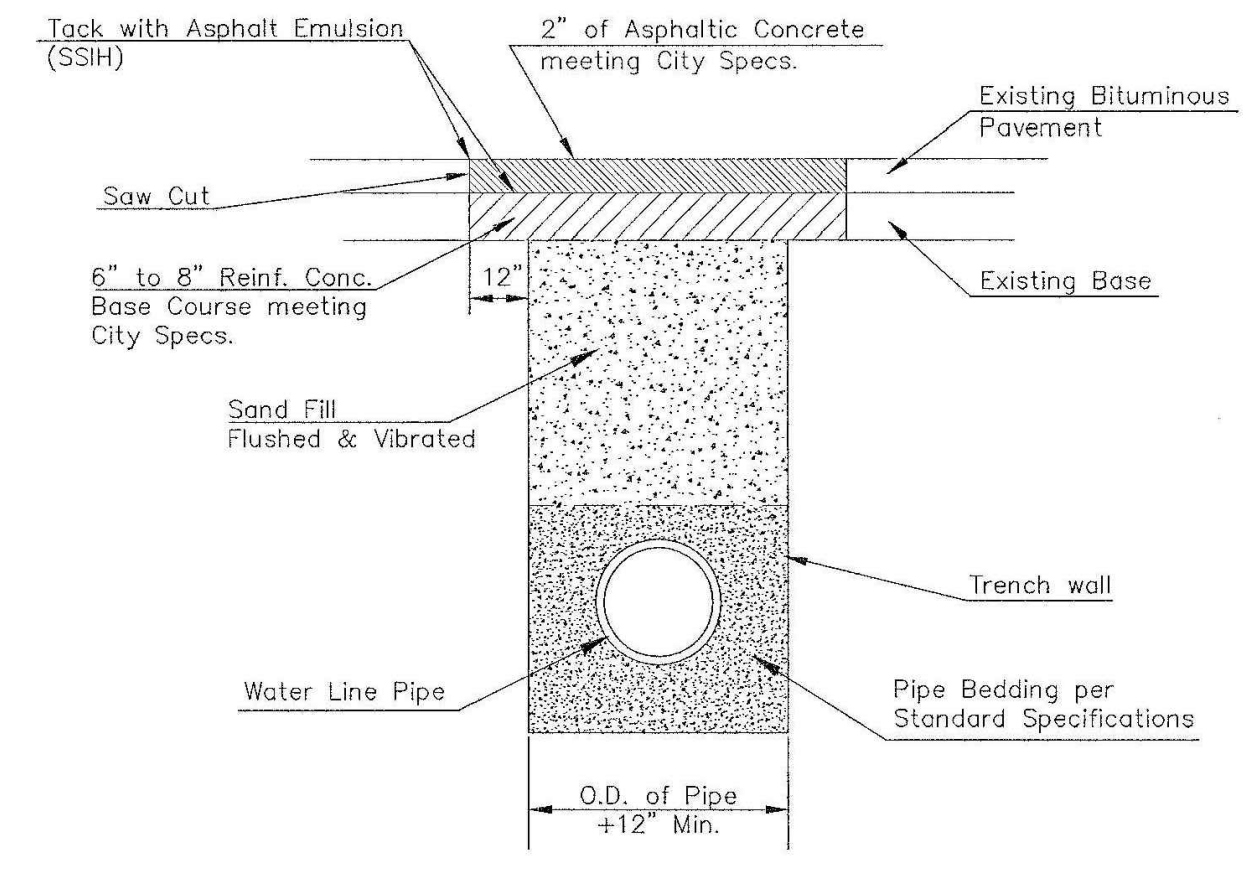
EXCAVATION FOR WET TAP



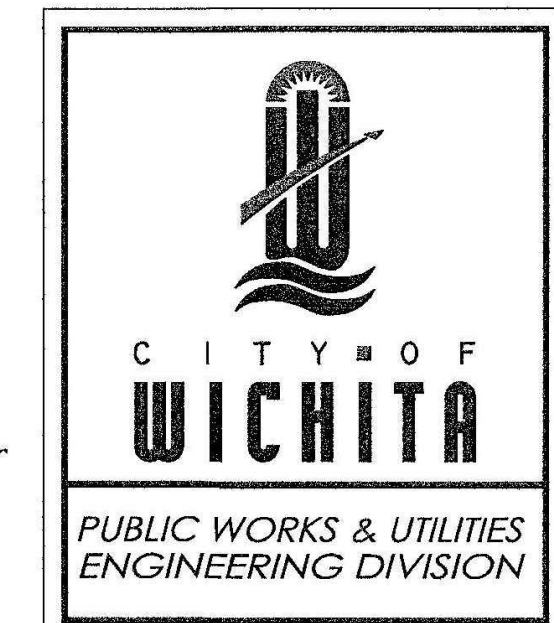
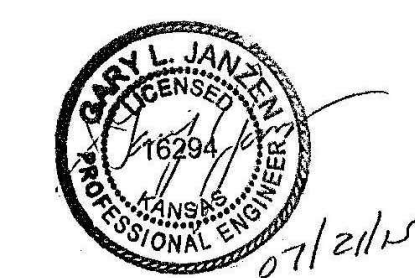
SECTION B-B

REINFORCED CONCRETE ENCASEMENT OF SANITARY SEWER

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



PAVEMENT REPLACEMENT & TRENCH COMPACTION UNDER EXISTING AND PROPOSED CITY ROADS



MISCELLANEOUS WATER DETAILS CITY ENGINEER GARY JANZEN, P.E.		
PROJECT NUMBER	OCA NUMBER	DATE
CITY ENGINEER'S OFFICE	SHEET	
CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		

WL-104

OWNER: KEITH D. STEVENS REVOCABLE TRUST 231 N. CRESTWAY ST WICHITA, KS 67208	DEVELOPER: CLUB CARWASH OPERATING, LLC 1213 OLD HWY 63, STE 101 COLUMBIA, MO 65201
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**WATER DISTRIBUTION SYSTEM
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DATE:	ERH	KJD
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