

BENCHMARKS:

BM #1: at edge of road from I-49
 North of Sta 19+00
 Elev. = 1367.65 NGVD88

BM #2: at East Transmission Tower Pole, SE corner of Sewer Plant
 Elev. = 1357.64 NGVD88

BM #3: at East Transmission Tower Pole, SW corner of Sewer Plant
 Elev. = 1366.00 NGVD88

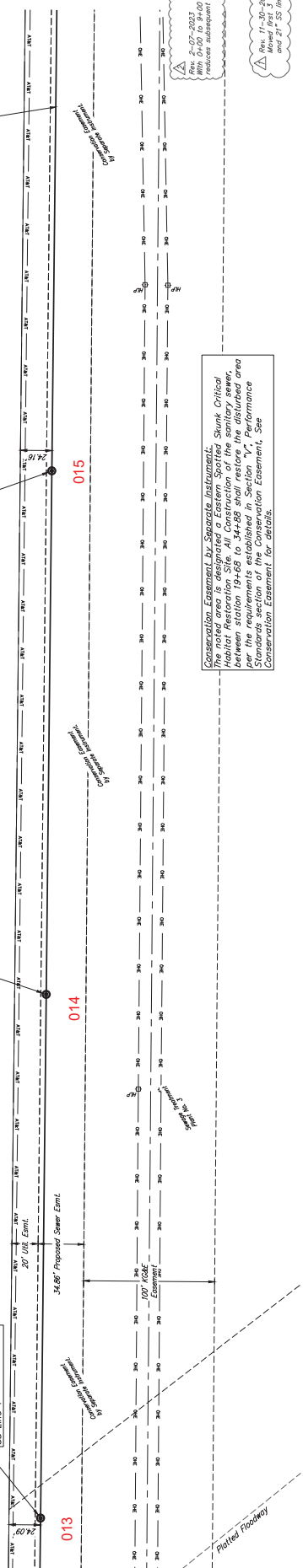
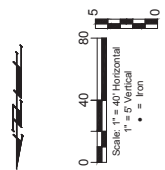
Spray-On Epoxy used to Line SS Manholes.

Sta. 30+00, SS Line 1 Manhole
 N = 1,709,382.52
 E = 1,604,216.00

COW I.D.# 4652-015
 Sta. 27+22.03, SS Line 1 Const. Std. Lined Manhole (5')
 Top Elev. = 1,709,630.48
 E = 1,604,219.90

COW I.D.# 4652-014
 Sta. 23+22.03, SS Line 1 Const. Std. Lined Manhole (5')
 Top Elev. = 1,367.38
 E = 1,604,214.22

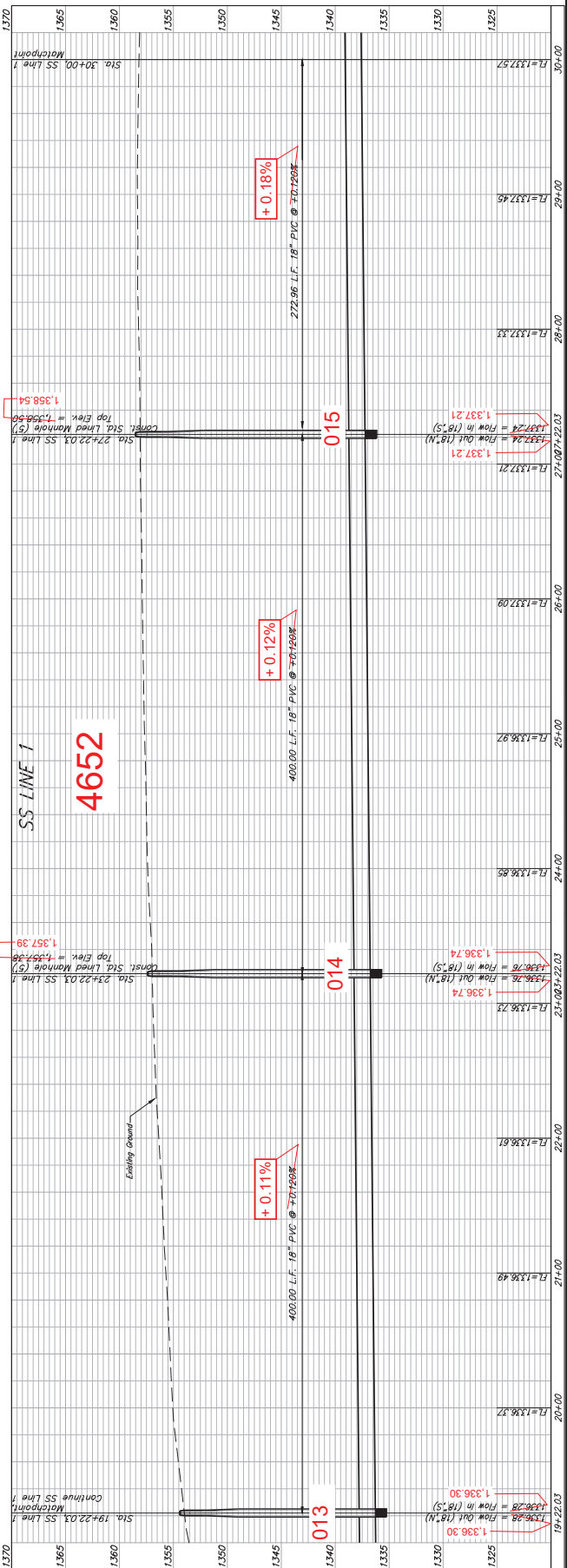
COW I.D.# 4652-013
 Sta. 19+22.03, SS Line 1 Match Point, continues SS Line 1



Conservation Easement by Separate Instrument:
 The noted area is designated as Eastern Spotted Skunk Critical Habitat Restoration Site. All construction of the sanitary sewer, between station 19+22.03 and station 27+22.03, shall be performed within the established Section 104 Performance Standards section of the Conservation Easement. See Conservation Easement for details.

Rev. 2-07-2023
 With 0.400 to 0.400 shift, on
 (please replot station by SL)

Rev. 11-30-2022
 Moved first 3 manholes
 and 2' of SS line south 15'



BAUGHMAN COMPANY
 316 Ellis St.
 Wichita, KS 67211
 316-262-7271
 BaughmanCo.com

LINE 1
 Sta 19+43
 to 30+00
 SANITARY SEWER
 IMPROVEMENTS

PROJECT NUMBER: 21-12-E083
 DESIGN: PSB DRAWN: PDM
 DATE: February 07, 2023
 SHEET OF 4

BENCHMARKS:

- BM 11: at edge of curb from 1.1
North 1/4 Sec 16, T25S, R22W
Elev. = 1,261.65 NGVD88
- BM 12: at East Intersection
Pioneer Park, SE corner of Sewer
Manhole (5) w/ Pipe Stub
Elev. = 1,257.64 NGVD88
- BM 13: at East Intersection
Pioneer Park, SE corner of Sewer
Manhole (5) w/ Pipe Stub
Elev. = 1,260.00 NGVD88

Existing 37th Street Curb Road shall be reconstructed to existing conditions. Cut to the top of the curb shall be at least 1.0' above the existing ground surface. The right-of-way of 37th Street North Right of Way will require a Utility Permit Agreement to be on file with the County Engineer with applicable bonds to be provided, prior to construction in the Right of Way.

All trench and manhole excavation areas from Sta. 34+77 to Sta. 35+78, Line 1 shall be backfilled with sand. The sand backfill shall be water-tamped and vibrated during backfilling. All costs shall be paid for as L.F. Tm. Sma (Tamped & Vibrated).

Section 25 - T26S - R2W South 1/4 Corner, was Reset.

CAUTION: Cover Pin to be installed to coordinate with Baughman to reestablish P.M. C.M. Crossing.

CAUTION: & underground line. Temporary Construction Easement. Doc.# 17m-Pg: 3079274

Pipe Stub 8" Dia. (E). Not Installed on this project. See Note 1.

Sta. 35+73.49, SS Line 1
Const. Std. Outside Drop Lined Manhole (5) w/ Pipe Stub.
Top Elev. = 1,389.49
E = 1,604,211.92

COW I.D. # 4651-041

Sta. 35+78.88, SS Line 1
Const. Std. Lined Manhole (5)
Matchpoint
Top Elev. = 1,380.97
E = 1,604,215.20

COW I.D. # 4652-016

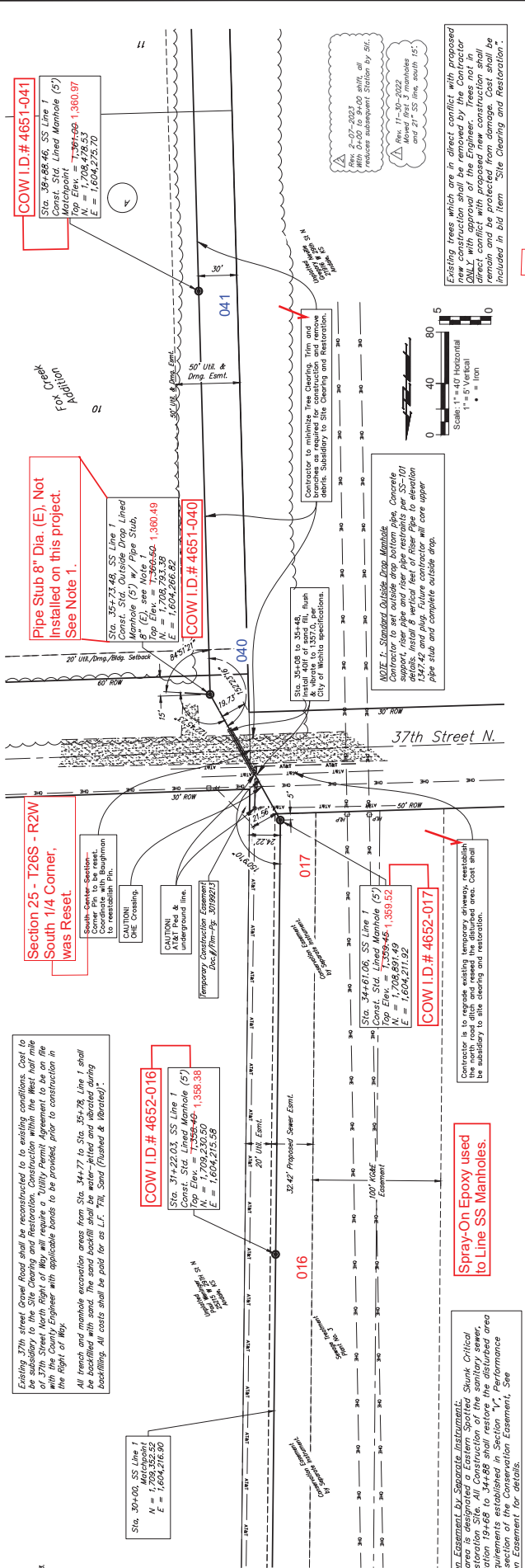
Sta. 31+22.03, SS Line 1
Const. Std. Lined Manhole (5)
Top Elev. = 1,389.49
E = 1,604,215.98

COW I.D. # 4652-017

Sta. 34+61.06, SS Line 1
Const. Std. Lined Manhole (5)
Top Elev. = 1,389.49
E = 1,604,211.92

COW I.D. # 4651-040

Sta. 35+73.49, SS Line 1
Const. Std. Outside Drop Lined Manhole (5) w/ Pipe Stub.
Top Elev. = 1,389.49
E = 1,604,211.92



Conservation Easement by Separate Instrument. Shunk Optical Habitat Restoration Site. All construction of the sanitary sewer, between station 19+68 to 34+88 shall restore the disturbed area per the requirements established in Section "V", Performance Conservation Easement for details.

Spray-On Epoxy used to Line SS Manholes.

Contractor is to regrade existing temporary driveway, reestablish the north road ditch and reseed the disturbed area. Cost shall be subsidiary to site clearing and restoration.

COW I.D. # 4652-017

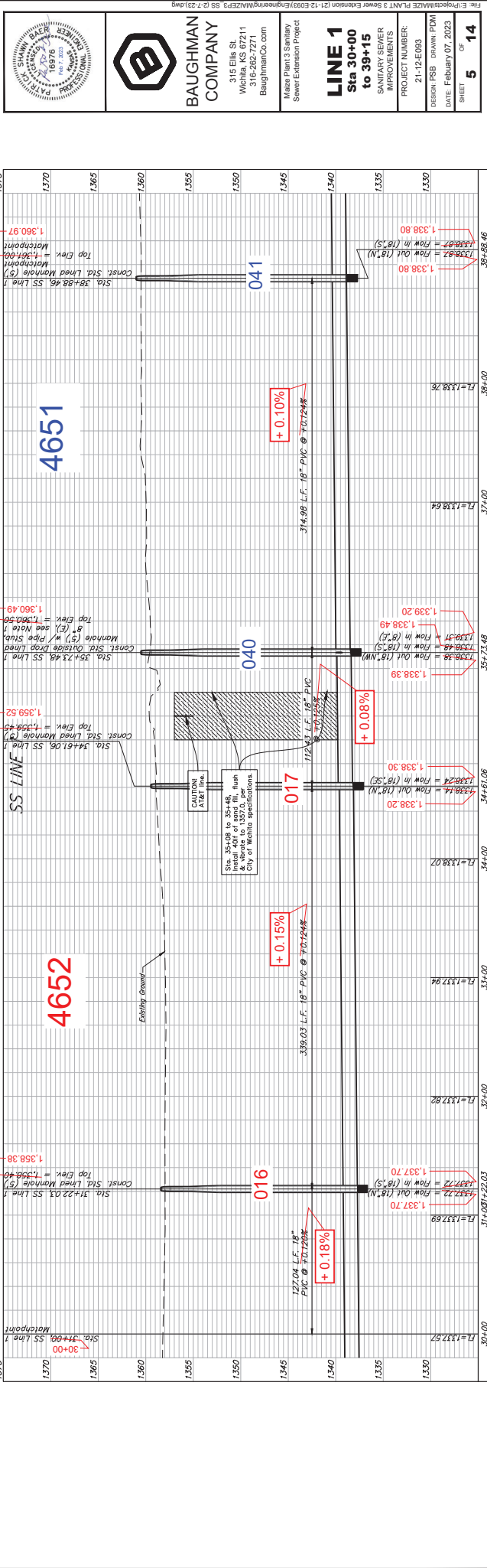
Contractor to set outside drop bottom pipe. Concrete support base and new pipe stubs per SS-101 & 102. Future contractor will core upper pipe stub and complete outside drop.

COW I.D. # 4651-040

NOTE: Contractor to minimize tree damage. Tree are to be removed as required for construction and removed debris. Subsidiary to Site Clearing and Restoration.

Existing trees which are in direct conflict with proposed new construction shall be removed by the Contractor with approval of the Engineer. Trees not to be removed shall be protected from damage. Cost shall be included in bid item "Site Clearing and Restoration".

Revised: 11-29-2022
Moved first 3 manholes and #1 SS line, south 1/4.



BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

LINE 1
Sta 30+00 to 39+15
SANITARY SEWER IMPROVEMENTS
PROJECT NUMBER: 21-12-E093
DESIGN: PSS DRAWN: PDM
DATE: February 07, 2023
SHEET OF 5

BENCHMARKS:

- BM #1: at edge of sewer manhole
- BM #2: at corner of sewer manhole
- BM #3: at East Intersection
- BM #4: at corner of sewer manhole
- BM #5: at corner of sewer manhole
- BM #6: at corner of sewer manhole
- BM #7: at corner of sewer manhole
- BM #8: at corner of sewer manhole
- BM #9: at corner of sewer manhole
- BM #10: at corner of sewer manhole

CONSTRUCTION ENTRANCE INFORMATION:
 Construction Entrance shall be installed at all Construction Entrances as shown on this plan. The Construction Entrance shall be a minimum of 12" wide by 90" in length with a 2" x 2" slot. Slots at a depth of 6".

EROSION CONTROL PLAN
LEGEND

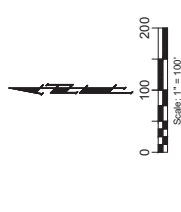
- DROP INLET PROTECTION
- CURB INLET PROTECTION
- DITCH CHECKS
- SILT FENCING
- STRAW MATS/DITCH CHECKS
- EROSION CONTROL BERM
- BACK OF CURB PROTECTION
- EROSION CONTROL MAT
- TEMPORARY DITCH

All disturbed areas to be seeded with native per NRRI standards.

EROSION CONTROL MEASURE	INSTALL	MAINTAIN
CONSTRUCTION ENTRANCE (EA)	3	0
SILT FENCE (LF)	5950	0
DITCH CHECKS (EA)	0	0
CURB INLET PROTECTION (EA)	0	0
DROP INLET PROTECTION (EA)	0	0
EROSION CONTROL MAT (SY)	0	0
MULCH MAT/SED. BARRIER (LF)	0	0
EROSION CONTROL BERM (LF)	0	0

* ALL EXISTING BMPs INCLUDING CONSTRUCTION ENTRANCE, SEDIMENT BARRIERS, SILT FENCE, CUT-OFF BARRIERS, STRAW MATS/DITCH CHECKS, EROSION CONTROL MATS, MULCH MATS/SED. BARRIERS, AND EROSION CONTROL BERMS SHALL BE MAINTAINED AND REPAIRED IF NECESSARY.

Contractor shall make sure all erosion control is in place before project is accepted. This plan represents the minimum standards. Any additional erosion control measures shall be installed by the Contractor as needed.



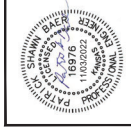
Existing Ground ——— 1.354 ———

CONSTRUCTION ENTRANCE INFORMATION:
 Construction Entrance shall be installed at all Construction Entrances as shown on this plan. The Construction Entrance shall be a minimum of 12" wide by 90" in length with a 2" x 2" slot. Slots at a depth of 6".

Install and maintain silt fence per details at limits of construction.

Install and maintain silt fence per details at limits of construction.

Install and maintain silt fence per details at limits of construction.



BAUGHMAN COMPANY
 315 Ellis St.
 Wichita, KS 67211
 316-262-7271
 BaughmanCo.com

Missouri Sewer Sanitary Sewer Extension Project

EROSION CONTROL

Sanitary Sewer Improvements

PROJECT NUMBER: 21-12-E093

DESIGN: PSS DRAWN: PDM

DATE: October 24, 2022

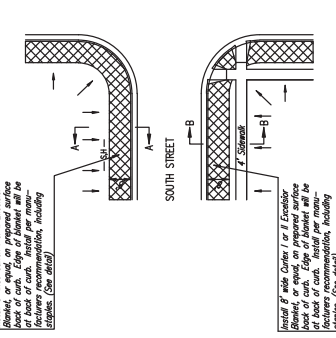
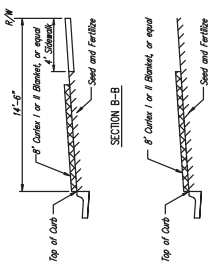
SHEET 7 OF 14

General Notes		
No.	Revision/Issue	Date

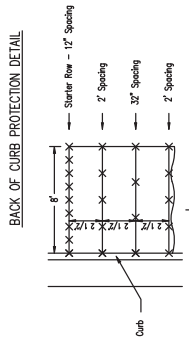
CITY OF MAIZE
10100 GRADY AVE.
MAIZE, KS. 67101-0245

CURB INLET PROTECTION
BMP

Project No. 10/22/13
Sheet 9 of 14

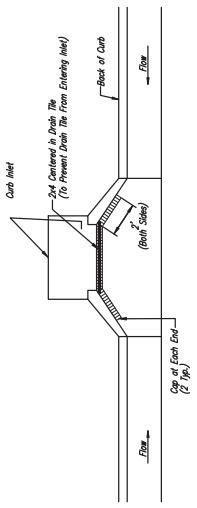


- NOTES:**
- EXTRUDER MAT TO BE INSTALLED WHEN SOIL IS NOT SPECIFIED ON PROJECT.
 - EXTRUDER MAT TO BE INSTALLED OVER USED AND FERTILIZER, AND TO BE SPACED TO THE PROJECT CURBS.
 - IF THE INSTALLATION OF CURBS DOES IN ANY MANNER, IN LOCATIONS WHERE COMBUSTIBLE FLOW CHARGES SETTLEMENT OVER THE CURBS AND INTO THE CUTTER, SUPPLEMENTAL EROSION CONTROL DEVICES WILL BE INSTALLED BY THE CONTRACTOR AS NEEDED TO FIX THE PROBLEM.

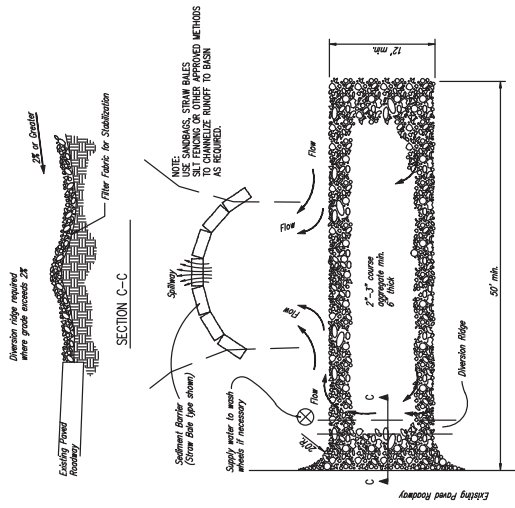
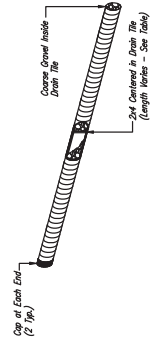


DETAILS FOR CURLEX I OR II BLANKETS

NOTES: Use 6" seam overlap



2x4 LENGTH	INLET TYPE	INLET OPENING
5'-6"	1-A	5'-0"
10'-6"	1-A	10'-0"
15'-6"	1-A	15'-0"



STABILIZED CONSTRUCTION ENTRANCE

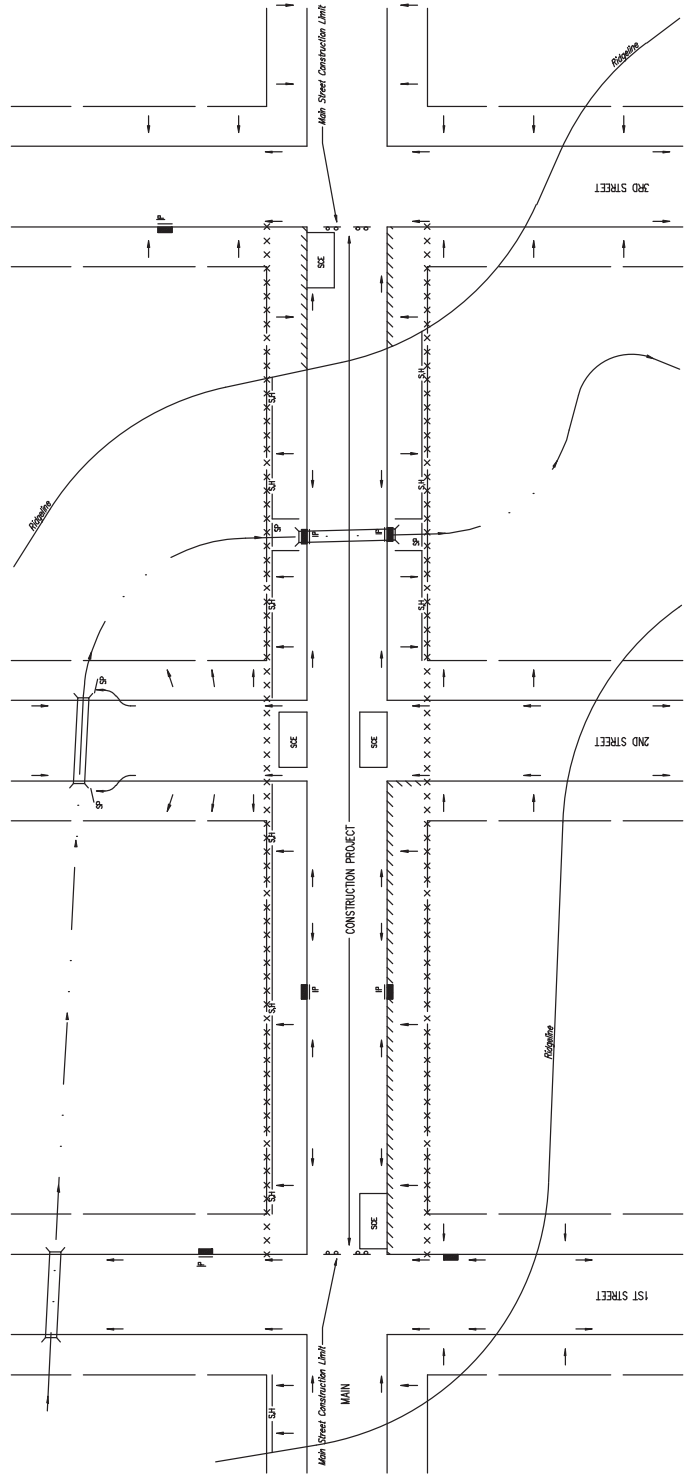
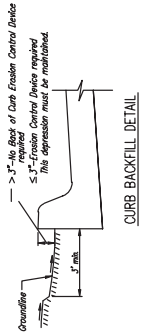
- NOTES:**
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR TYPING OF MUD ONTO ADJACENT DRIVEWAYS, SIDEWALKS, OR STREETS. REPAIR AND/OR CLEANUP OF ANY MEASURES USED TO TRAP SEDIMENT.
 - WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
 - 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 TRAP OR SEDIMENT BASIN. THE SEDIMENT TRAP OR SEDIMENT BASIN SHALL BE SUFFICIENT TO KEEP MUD FROM BEING TRACKED ONTO ADJACENT STREET. ENTRANCE SHALL EXTEND FROM BACK OF CURB TO DWELLING.

No.	Revision/Issue	Date

City Name and Address
CITY OF MAIZE
 10100 GRADY AVE.
 MAIZE, KS. 67101-0245

Project Name and Address
STREET IMPROVEMENTS

Sheet
10 of 14
 Date
 10/22/13



- THIS SHEET IS INTENDED TO PROVIDE GUIDANCE AS TO WHAT TYPES OF EROSION CONTROL DEVICES WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS. CONTRACTORS ARE EXPECTED TO BID PROJECTS ACCORDINGLY.
- EROSION CONTROL DEVICES MUST BE MAINTAINED BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PROCESS AND UNTIL THE DISTURBED EARTH IS RESTABILIZED.
- IF THE PROJECT WILL DISTURB 1 ACRE OR MORE, A FEDERAL/STATE NPDES STORMWATER PERMIT IS REQUIRED. A RETAINED STORMWATER POLLUTION PREVENTION PLAN IS REQUIRED. THE EROSION CONTROL DEVICES SHOWN ON THIS SHEET ARE CONSIDERED TO BE THE MINIMUM TO BE SHOWN IN THE POLLUTION PREVENTION PLAN.
- FOR PROJECTS DISTURBING LESS THAN 1 ACRE, CONTRACTORS ARE ENCOURAGED TO PURCHASE STORMWATER POLLUTION PREVENTION PLANS FROM A PROFESSIONAL ENGINEER. EROSION CONTROL DEVICES MUST BE USED ON ALL PROJECTS.
- FAILURE TO USE AND MAINTAIN EROSION CONTROL DEVICES IS A VIOLATION OF PARAGRAPHS 8-1001 OF THE CITY CODE AND WILL SUBJECT THE CONTRACTOR TO THE PENALTIES PROVIDED FOR THEREIN.
- THE APPLICATION OF EROSION CONTROL DEVICES SHOWN ON THIS SHEET IS FOR SITUATIONS NORMALLY ENCOUNTERED. CONTRACTORS ARE ENCOURAGED TO CONSULT WITH THE CITY ENGINEER FOR SITUATIONS WHERE UNUSUAL EROSION CONTROL DEVICES, OTHER THAN THOSE SHOWN, MAY BE UTILIZED AS LONG AS THEY ARE EFFECTIVE AND MAINTAINED.

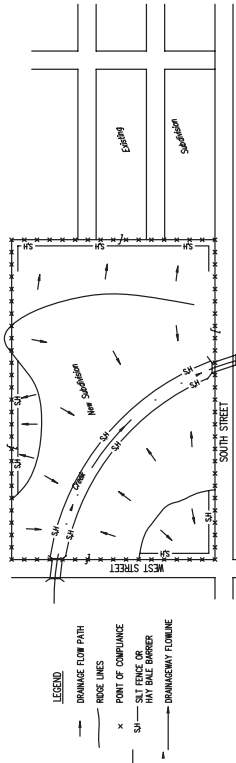
- THE INTERIOR OF ALL EROSION CONTROL DEVICES IS TO BE KEPT FULLY COVERED TO THE CONSTRUCTION SITE AND OUT OF ALL UNDERGROUND PIPES, DITCHES, LAKES, AND OTHER DRAINAGE FACILITIES, AND OFF OF STREETS.
- THE POINT OF COMPLIANCE IS GENERALLY THE RIGHT-OF-WAY LINES WITHIN THE LIMITS OF CONSTRUCTION.
- EROSION CONTROL DEVICES WILL BE REQUIRED AT ALL POINTS ALONG THE PROJECT WHERE DISTURBED EARTH CAN DRAIN ONTO PRIVATE PROPERTY.
- INLET PROTECTION DEVICES WILL BE REQUIRED WHEREVER WATER CAN DRAIN OFF THE PROJECT SITE INTO AN INLET, INCLUDING ANY SIDE STREET INLETS.
- EROSION CONTROL DEVICES SHALL BE INSTALLED AT CREEK CROSSINGS SO AS TO PREVENT SEDIMENT FROM ENTERING THEREIN.
- STABILIZED CONSTRUCTION ENTRANCES SHALL BE PROVIDED, AS NEEDED, TO PREVENT MUD FROM TRACKING ONTO STREETS NOT UNDER CONSTRUCTION AND ON STREETS WITHIN THE PROJECT LIMITS IF TRAFFIC IS BEING MAINTAINED THROUGH THE PROJECT.

LEGEND

- R-O-W LIMITS
- DRAINAGE FLOW PATH
- P/W LIMIT WITHIN CONSTRUCTION LIMIT
- STORM WATER INLETS
- INLET PROTECTION
- SILT FENCE OR HAY BALE BARRIER
- STREAM PROTECTION
- STABILIZED CONSTRUCTION ENTRANCE
- BACK OF CURB PROTECTION

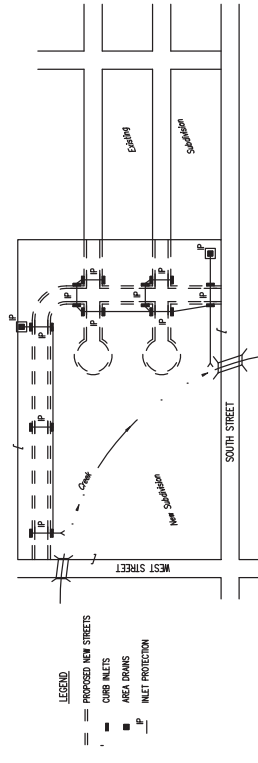
- ANY MUD TRACKED ONTO STREETS MUST BE REMOVED AT THE END OF EACH WORK DAY.
- THE CONTRACTOR WILL BE REQUIRED TO PLACE EROSION CONTROL DEVICES BACK OF CURBS, WHEREVER WATER CAN DRAIN OVER CURBS, TO KEEP EXPOSED SOIL OUT OF THE COURTESIES, IN ACCORDANCE WITH THE FOLLOWINGS:
 - THE DEVICE REQUIRED WILL BE CURBS | OR EXCELISOR BLANKET, OR EQUAL, SAID BLANKET SHALL BE PLACED OVER THE APPROPRIATE SEED AND FERTILIZER, AS SPECIFIED IN THE PROJECT POLLUTION PREVENTION PLAN.
 - THIS DEVICE SHALL BE INSTALLED IMMEDIATELY WHENEVER THE CURBS IS BACKFILLED TO WITHIN 3" OF THE TOP OF CURB. (SEE CURB BACKFILL DETAIL) OTHER BMP'S MAY BE REQUIRED AT LOCATIONS WHERE CONCENTRATED FLOW CARRIES SEDIMENT OVER THE CURBS.
 - INLET PROTECTION DEVICES SHALL BE INSTALLED AT ALL LOCATIONS WHERE CONCENTRATED FLOW RESULTING IN SEDIMENT OVERRUNNING THE MAT.
 - SHOULD THE PROJECT PLANS SPECIFY THAT THE RIGHT-OF-WAY IS TO BE STABILIZED, THE EXCLOSOR SHALL BE REQUIRED TO BE INSTALLED WITHIN 10 FEET OF THE CURBS AND A MINIMUM OF 10 FEET FROM THE CURBS. (SEE CURB BACKFILL DETAIL)

PHASE 1 - INITIAL EARTHWORK AND UTILITIES (EXCEPT STORM SEWER)



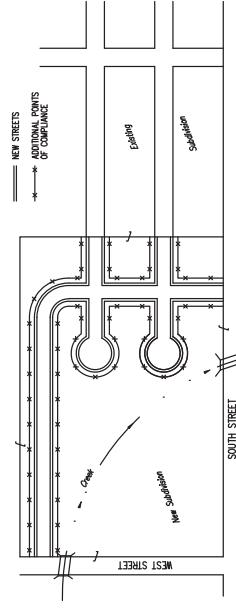
1. DURING THE PHASE OF SUBDIVISION CONSTRUCTION, THE POINTS OF COMPLIANCE DRAINING THROUGH OR FROM THE SITE SHOULD REMAIN IN PLACE AND BE MAINTAINED. CONTRACTORS WORKING ON THE BOUNDARY OF THE PROPERTY WILL DISOBTAIN DURING STORMS, THEY ARE ALSO A POINT OF COMPLIANCE.
2. HAY BALES OR SALT FENCE MUST BE CONSTRUCTED ALONG THE PROPERTY LINE WHERE ON SITE WATER CAN DRAIN OFF THE PROPERTY. THESE EROSION CONTROL DEVICES WILL ALSO BE INSTALLED ALONG ANY DRAINAGE DITCH OR LAKE THAT CAN DISOBTAIN.
3. SHOULD NOT BE REMOVED UNTIL THE DITCHES OR STREETS ON THE ADJACENT PROPERTY ARE COMPLETED. EROSION CONTROL DEVICES WILL BE PLACED WITHIN THE SUBDIVISION TO PREVENT THIS. EROSION CONTROL DEVICES WILL BE REMOVED BY FRUITY AT 6:00 PM, WHICHEVER IS EARLIER.
4. ANY MUD TRACKED ONTO ADJACENT STREETS WILL BE REMOVED WITHIN 48 HOURS OR BY FRUITY AT 6:00 PM, WHICHEVER IS EARLIER.
5. CONTRACTORS WORKING WITHIN THE SITE WILL NOT BE RESPONSIBLE TO USE MINIMUM EROSION CONTROL DEVICES AS LONG AS THOSE SPECIFIED ABOVE ARE IN PLACE AND EFFECTIVE. CONTRACTORS WORKING ON THE BOUNDARY OF THE PROPERTY WILL DISOBTAIN DURING STORMS, THEY ARE ALSO A POINT OF COMPLIANCE.
6. UTILIZE STABILIZED CONSTRUCTION ENTRANCE AT ENTRANCE AND EXIT ONTO ANY EXISTING PUBLIC STREETS.
7. IF THE INITIAL EARTH WORK AND UTILITIES ARE DONE AS PART OF A PUBLIC IMPROVEMENT PROJECT, THESE EROSION CONTROL DEVICES WILL BE INSTALLED BY THE CONTRACTOR AS SOON AS POSSIBLE AFTER THE COMPLETION OF THE CONTRACT. AT THAT TIME THE DEVELOPER WILL BE RESPONSIBLE FOR MAINTAINING THESE DEVICES UNTIL THE DEVELOPER HAS COMPLETED THE PROJECTS. THE DEVELOPER WILL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THESE DEVICES.
8. WITHIN 14 DAYS OF COMPLETION OF EARTHWORK ACTIVITIES IN ANY OPEN AREA, THAT AREA SHALL BE TEMPORARILY OR PERMANENTLY SEEDED AND MULCHED.

PHASE 2 - INSTALLATION OF STORM SEWER



1. DURING THE PHASE OF SUBDIVISION CONSTRUCTION, ALL EROSION CONTROL DEVICES REQUIRED IN PHASE 1 SHALL REMAIN IN PLACE AND BE MAINTAINED.
2. AS NEW STORM STREETS, WITH INLETS, ARE INSTALLED, THE STORM SEWERS MUST NOW BE PROTECTED SO ALL NEW INLETS BECOME POINTS OF COMPLIANCE.
3. AREA DRAINS - AS SOON AS WATER CAN FLOW INTO THESE DRAINS, HAY BALE OR SALT FENCE PROTECTION WILL BE INSTALLED AROUND THEM.
4. CURB OPENING INLETS - AS SOON AS WATER CAN FLOW INTO THESE DRAINS, INLET PROTECTION WILL BE INSTALLED AROUND THEM. THESE DEVICES WILL BE REMOVED BY THE CONTRACTOR AS SOON AS THE STREETS HAVE BEEN COMPLETED. SEE PHASE 3 - STREET CONSTRUCTION.
5. THE STORM SEWER CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING THESE DEVICES.
6. THE SUBDIVISION DEVELOPER WILL MAINTAIN THESE EROSION CONTROL DEVICES ONCE INSTALLED.
7. ALL DISTURBED GROUND WILL BE FINAL GRADED AND TEMPORARILY OR PERMANENTLY SEEDED WITHIN 14 DAYS OF COMPLETION OF WORK IN ANY OPEN PART OF THE SUBDIVISION.
8. ONCE ALL DISTURBED GROUND DRAINING TO AN INLET HAS BEEN RESTABILIZED FOR PERMANENTLY REMAINING THE INLET PROTECTION.

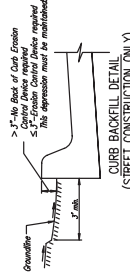
PHASE 3 - STREET CONSTRUCTION



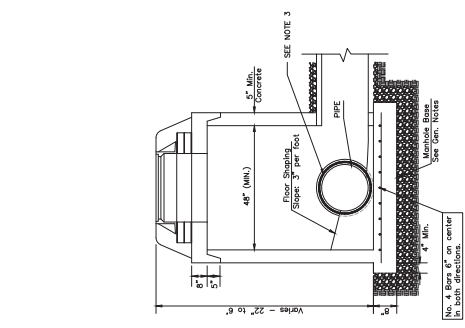
1. DURING THIS PHASE OF SUBDIVISION CONSTRUCTION, NEW STREETS ARE INSTALLED. THE BACK OF CURB PROTECTION SPECIFIED ON THIS PLAN MAY HAVE TO BE MAINTAINED. THE POINT OF COMPLIANCE NOW SHIFTS TO THE BACK OF CURB ALONG EACH STREET.
2. CURB OPENING PROTECTION SHALL BE PROVIDED WHEN STREET SUBGRADE IS PLACED.
3. ASPHALT IS INSTALLED, BEFORE THE SURFACE COURSE IS LAYED.
4. EROSION CONTROL DEVICES WILL BE REQUIRED BACK OF CURB WHEREVER WATER CAN FLOW OVER THE CURB AND THE CURB HAS BEEN BACKFILLED TO WITHIN 10 FEET OF THE CURB. THESE DEVICES WILL BE INSTALLED AS SOON AS THE CURB IS BACKFILLED TO WITHIN 10 FEET OF THE CURB. THESE DEVICES WILL BE REMOVED AT POINTS WHERE WATER BREAKS OVER CURB WHICH COULD RESULT IN THE PLACEMENT OF SEDIMENT IN THE GUTTER.
5. SEE DETAIL SHEET FOR BACK OF CURB PROTECTION.
6. THE BACK OF CURB PROTECTION SPECIFIED ON THIS PLAN MAY HAVE TO BE MAINTAINED. THE POINT OF COMPLIANCE NOW SHIFTS TO THE BACK OF CURB ALONG EACH STREET.
7. THE STREET EROSION CONTROL DEVICES WILL BE RESPONSIBLE FOR INSTALLING BACK OF CURB EROSION CONTROL DEVICES.
8. THE INDIVIDUAL LOT OWNERS WILL BE RESPONSIBLE FOR MAINTAINING THE EROSION CONTROL DEVICES. THE STREET EROSION CONTROL DEVICES WILL BE REMOVED AT SUCH TIME AS ADJACENT DISTURBED EARTH IS STABILIZED WITH GRASS OR SOO.

- GENERAL NOTES:
1. ALL EROSION CONTROL DEVICES IS TO PREVENT ERODED SOIL FROM ENTERING DITCHES, STORM SEWERS, LAKE, STREETS OR ANY OTHER OTHER DRAINAGE FEATURE.
 2. THIS SHEET IS INTENDED TO PROVIDE GUIDELINES AS TO WHAT TYPE OF EROSION CONTROL DEVICES ARE REQUIRED FOR THE CONSTRUCTION PROCESS. CONTRACTORS ARE EXPECTED TO DO PROJECTS ACCORDINGLY.
 3. EROSION CONTROL DEVICES SHALL BE MAINTAINED DURING THE CONSTRUCTION PROCESS TO REMAIN EFFECTIVE. MAINTENANCE SHALL BE AS INDICATED ON SOIL EROSION BMP'S DETAIL SHEETS.
 4. PERSONS DESTROYING EROSION CONTROL DEVICES SHALL BE RESPONSIBLE FOR IMMEDIATELY REPAIRING THEM OR INSTALLING SURGEABLE RESTORATION DEVICES.
 5. THE DEVELOPER SHALL BE RESPONSIBLE FOR MAINTAINING THE EROSION CONTROL DEVICES UNTIL THE STREETS ARE COMPLETED. THE DEVELOPER SHALL BE RESPONSIBLE FOR MAINTAINING THE EROSION CONTROL DEVICES UNTIL THE STREETS ARE COMPLETED. THE DEVELOPER SHALL BE RESPONSIBLE FOR MAINTAINING THE EROSION CONTROL DEVICES UNTIL THE STREETS ARE COMPLETED.
 6. FOR SUBDIVISIONS SMALLER THAN 1 ACRE, SOIL EROSION DEVICES ARE REQUIRED. ALSO, DEVELOPERS AND CONTRACTORS ARE ENCOURAGED TO CONSIDER EROSION PREVENTION PLANS FOR EACH PROJECT PRIOR TO CONSTRUCTION.
 7. FAILURE TO USE AND MAINTAIN SOIL EROSION DEVICES IS A VIOLATION OF ARTICLE 10, SECTION 8-1007 OF THE CITY CODE AND WILL SUBJECT THE SUBDIVISION DEVELOPER AND CONTRACTORS TO THE PENALTIES PROVIDED THEREIN.
 8. THE APPLICATION OF EROSION CONTROL DEVICES SHOWN ON THIS SHEET WILL BE RESPONSIBLE FOR MAINTAINING THE EROSION CONTROL DEVICES UNTIL THE STREETS ARE COMPLETED. THE DEVELOPER SHALL BE RESPONSIBLE FOR MAINTAINING THE EROSION CONTROL DEVICES UNTIL THE STREETS ARE COMPLETED.
 9. A STABILIZED EARTH SURFACE IS REFERRED TO AS ONE WHICH IS COVERED WITH CONCRETE, ASPHALT OR THE LIKE, OR ONE ON WHICH TOPSOIL OR GRASS HAS BEEN PLANTED ON THE ENTIRE SURFACE.

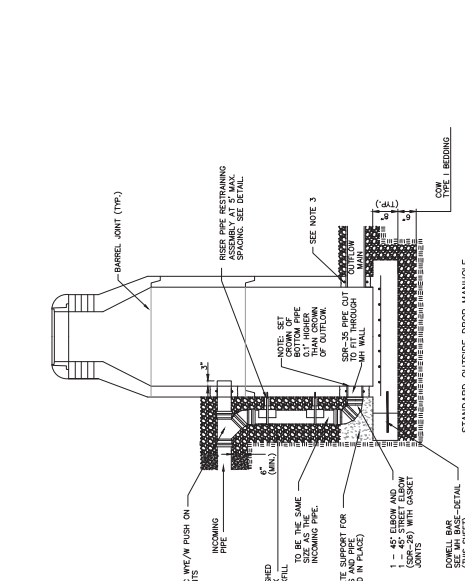
SEE DETAIL SHEET FOR BACK OF CURB PROTECTION DETAIL



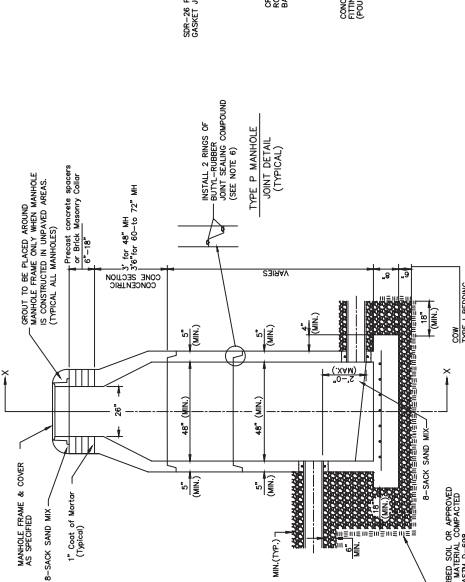
Project Name and Address	CITY OF MAIZE 10100 GRADY AVE. MAIZE, KS. 67101-0245
Project Name and Address	SUBDIVISION DEVELOPMENT PROCESS
Date	10/22/13
Sheet	11 of 14



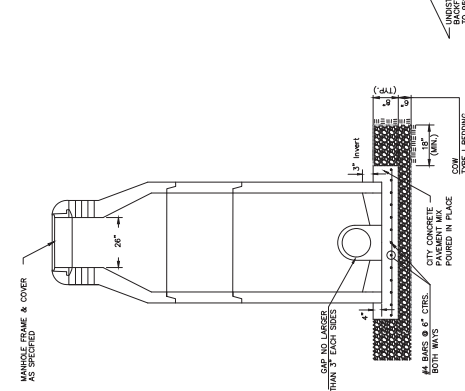
DOG HOUSE MANHOLE (OVERHEAD DROP PIPE) Not to Scale



STANDARD MANHOLE Not to Scale



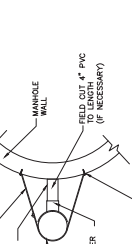
STANDARD OUTSIDE DROP MANHOLE Not to Scale



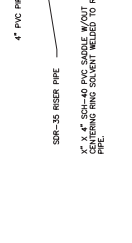
SHALLOW MANHOLE Not to Scale

SANITARY SEWER MANHOLE DIAMETERS

DIAMETER	DEPTH	PIPE SIZE
4'	0'-15'	8" x 18"
5'	>15'-30'	21" x 30"
6'	>30'	36" x 60"



RISE PIPE RESTRAINT ASSEMBLY Not to Scale



MH BASE DETAIL Not to Scale

PRECAST MANHOLE GENERAL NOTES

- ALL PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO THE LATEST REVISIONS OF A.S.T.M. C478 AS MODIFIED BY THE SPECIFICATIONS.
- NON-SHRINK GROUT SHALL BE NON-METALLIC TYPE.
- SEWER PIPE SHALL BE SUPPORTED WITH CRUSSED ROCK A MINIMUM OF 3 FEET FROM THE MANHOLE WALL AND TO THE FIRST JOINT FOR V.C.P. SUCH THAT THE JOINT REMAINS FLEEBLE.
- ALL JOINTS PER SECTION 804.4 OF STANDARD SPECIFICATIONS WOULD BE EXPOSED TO SEWER GAS SHALL BE COATED PER SECTION 804.4 OF STANDARD SPECIFICATIONS.
- EXTERIOR MANHOLE WALLS SHALL BE COATED PER SECTION 804.4 OF STANDARD SPECIFICATIONS.
- JOINT SEALING COMPOUND SHALL BE PER 804.4 OF STANDARD SPECIFICATIONS.
- MANHOLE WALLS SHALL BE FINISHED WITH A 1/2" MINIMUM AT DEEP SHALL BE FINISHED WITH AN EXTERIOR JOINT SEAL PER SECTION 804.4 OF STANDARD SPECIFICATIONS.
- PRECAST MANHOLE SHALL BE SET AT LEAST 4 INCHES INTO THE MANHOLE BASE FOR DOG HOUSE MANHOLES.
- DOGS HOUSE MANHOLE SHALL BE AT LEAST 18 INCHES BELOW THE FLOW LINE OF THE OUTLET PIPE TO A MINIMUM OF 18 INCHES THICKNESS OF SLEEPS INVERT.
- LETING HOLES SHALL BE FILLED WITH NON-SHRINK GROUT AND THE INTERIOR SURFACE COATED AS SPECIFIED.
- MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 8 BAGS OF CEMENT PER CUBIC YARD. CONCRETE PAVEMENT SHALL BE SPECIFIED IN THE CITY STANDARD PAVING SPECIFICATIONS UNLESS OTHERWISE SPECIFIED. CONCRETE PAVEMENT MIX WITHOUT AIR ENTRAINING ADMIXTURE. MORTAR SHALL BE PLACED AROUND THE COMPLETED MANHOLE SHALL BE WITHOUT LEAKS AND WATER TIGHT. CONSTRUCTED IN FORWARD PILES.
- REINFORCING STEEL SHALL BE INSTALLED IN THE MANHOLE BASES AND SHALL CONSIST OF NO. 4 BARS PLACED ON 6" ON CENTERS IN BOTH DIRECTIONS. THE MANHOLE BASE REINFORCEMENT SHALL BE PLACED AT LEAST 1/2" FROM THE EXTERIOR SURFACE OF THE MANHOLE AND INSTALLING REINFORCING STEEL SHALL BE IN THE UNIT PRICE BID FOR THE MANHOLE.
- WALL THICKNESS SHALL BE 1" GREATER THAN MANHOLE DIAMETER IN FEET.

REVISION NOVEMBER 2019 RISE PIPE RESTRAINT ASSEMBLY REVISED ON MANHOLE DRAWING

CITY OF WICHITA

PUBLIC WORKS & UTILITIES ENGINEERING DIVISION

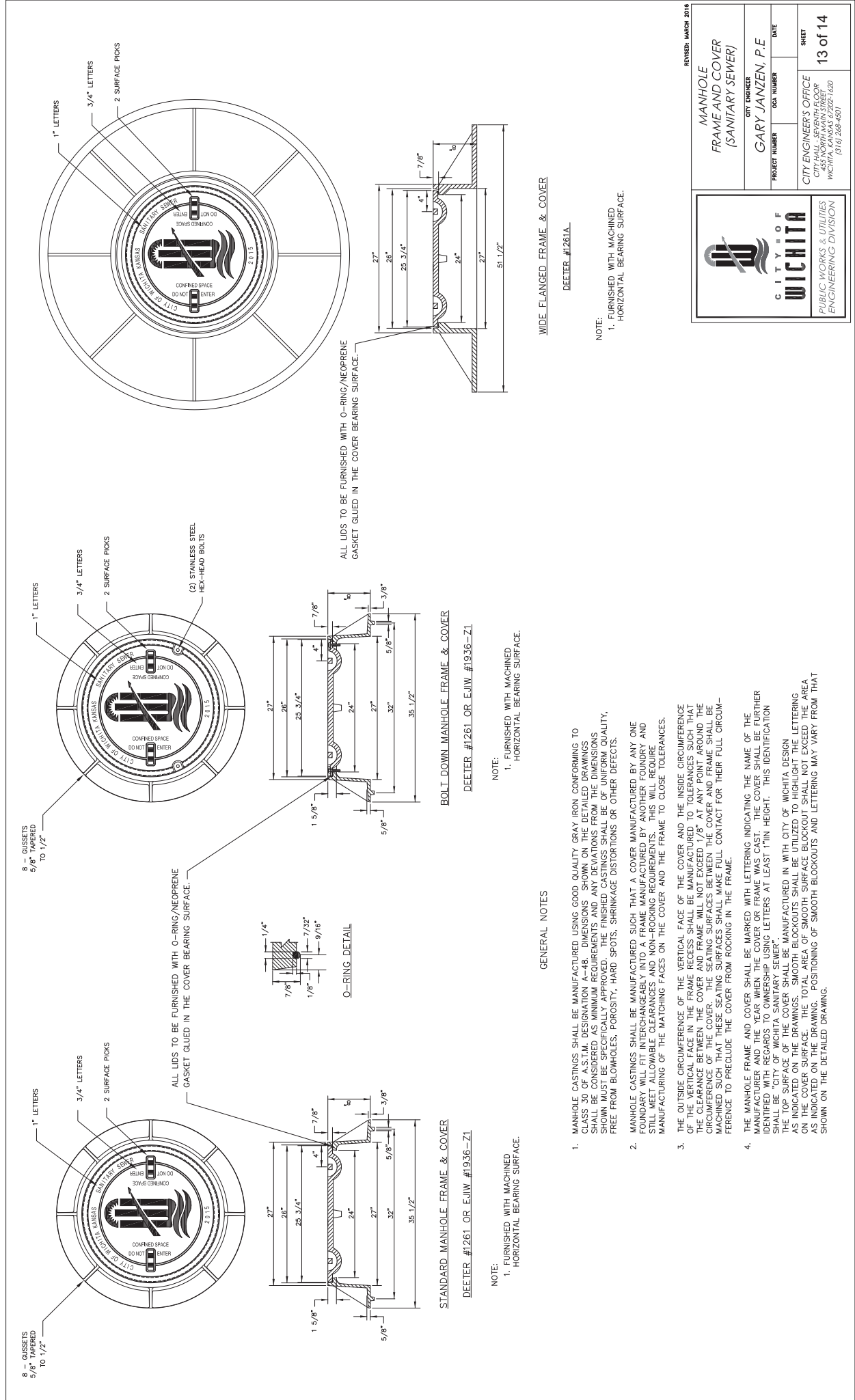
PRECAST SANITARY SEWER MANHOLE

CITY ENGINEER: GARY JANZEN, P.E.

PROJECT NUMBER: OCA NUMBER: DATE:

SHEET: 12 of 14

CITY ENGINEER'S OFFICE: 551 S. HALL - SEVENTH FLOOR WICHITA, KANSAS 67202-1620 (316) 268-4501



WIDE FLANGED FRAME & COVER

DEETER #1261A

NOTE:
1. FURNISHED WITH MACHINED HORIZONTAL BEARING SURFACE.

BOLT DOWN MANHOLE FRAME & COVER

DEETER #1261 OR EJIW #1936-Z1

NOTE:
1. FURNISHED WITH MACHINED HORIZONTAL BEARING SURFACE.


STANDARD MANHOLE FRAME & COVER

DEETER #1261 OR EJIW #1936-Z1

NOTE:
1. FURNISHED WITH MACHINED HORIZONTAL BEARING SURFACE.

GENERAL NOTES

- MANHOLE CASTINGS SHALL BE MANUFACTURED USING GOOD QUALITY GRAY IRON CONFORMING TO CLASS 20 PER ASTM DESIGNATION. DIMENSIONS SHOWN ON THESE DRAWINGS SHALL BE CONSIDERED MINIMUM DIMENSIONS UNLESS OTHERWISE SPECIFIED. FINISHED SURFACES SHALL BE SPECIFICALLY APPROVED. THE FINISHED CASTINGS SHALL BE OF UNIFORM QUALITY, FREE FROM BLOWHOLES, POROSITY, HARD SPOTS, SHRINKAGE DISTORTIONS OR OTHER DEFECTS.
- MANHOLE CASTINGS SHALL BE MANUFACTURED SUCH THAT A COVER MANUFACTURED BY ANY ONE FOUNDRY WILL FIT INTERCHANGEABLY INTO A FRAME MANUFACTURED BY ANOTHER FOUNDRY AND STILL MEET ALLOWABLE CLEARANCES AND NON-ROCKING REQUIREMENTS. THIS WILL REQUIRE MANUFACTURING OF THE MATCHING FACES ON THE COVER AND THE FRAME TO CLOSE TOLERANCES.
- THE OUTSIDE CIRCUMFERENCE OF THE VERTICAL FACE OF THE COVER AND THE INSIDE CIRCUMFERENCE OF THE VERTICAL FACE IN THE FRAME RECESS SHALL BE MANUFACTURED TO TOLERANCES SUCH THAT THE CLEARANCE BETWEEN THE COVER AND FRAME WILL NOT EXCEED 1/8" AT ANY POINT AROUND THE CIRCUMFERENCE OF THE COVER. THE SEATING SURFACES BETWEEN THE COVER AND FRAME SHALL BE MACHINED SUCH THAT THESE SEATING SURFACES SHALL MAKE FULL CONTACT FOR THEIR FULL CIRCUMFERENCE TO PRECLUDE THE COVER FROM ROCKING IN THE FRAME.
- THE MANHOLE FRAME AND COVER SHALL BE MARKED WITH LETTERING INDICATING THE NAME OF THE MANUFACTURER AND THE YEAR WHEN THE COVER OR FRAME WAS CAST. THE COVER SHALL BE FURTHER IDENTIFIED WITH REGARDS TO OWNERSHIP USING LETTERS AT LEAST 1" IN HEIGHT. THIS IDENTIFICATION SHALL BE "CITY OF WICHITA SANITARY SEWER". THE TOP SURFACE OF THE COVER SHALL BE MANUFACTURED IN WITH CITY OF WICHITA DESIGN AS INDICATED ON THE DRAWINGS. SMOOTH BLOCKOUTS SHALL BE UTILIZED TO HIGHLIGHT THE LETTERING ON THE COVER SURFACE. THE TOTAL AREA OF SMOOTH SURFACE BLOCKOUT SHALL NOT EXCEED THE AREA AS INDICATED ON THE DRAWING. POSITIONING OF SMOOTH BLOCKOUTS AND LETTERING MAY VARY FROM THAT SHOWN ON THE DETAILED DRAWING.

 CITY OF WICHITA PUBLIC WORKS & UTILITIES ENGINEERING DIVISION		REVISION: MARCH 2016		
		MANHOLE FRAME AND COVER (SANITARY SEWER)		
CITY ENGINEER GARY JANZEN, P.E.	PROJECT NUMBER	DATE	SHEET 13 of 14	
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR WICHITA, KANSAS 67202-1620 (316) 268-4501				

