

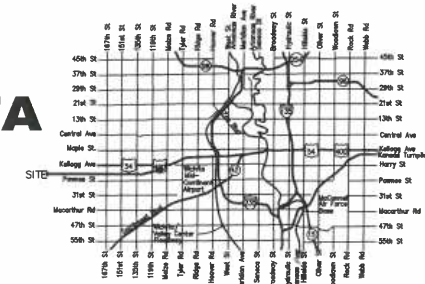
**GENERAL NOTES:**

- The Contractor shall comply with all applicable safety regulations. All construction shall be completed following current City Standard Specifications and Special Provisions.
- Contractor will be required to provide notice to utility companies a minimum of seventy-two (72) hours prior to any excavation, as follows:  
Kansas One-Call 687-2470  
The Contractor must notify the following in case of an emergency:  
AT&T 1-800-246-8464  
Black Hills Energy 1-800-694-8989  
City of Wichita Water & Sewer 1-316-219-8921  
City of Wichita Stormwater 1-316-269-4090  
City of Wichita Traffic 1-316-269-4034  
Cox Communications 1-888-249-3530  
Kansas Gas Service 1-888-482-4950  
Westar Energy 1-800-544-4657
- 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 abutting the construction of this project a minimum of ten (10) days notice prior to start of construction.
- The Contractor shall be responsible for preserving property irons. The Contractor will be required to re-establish any property irons which are damaged or destroyed by his construction operations. Such irons shall be re-established by a licensed land surveyor in accordance with state laws.
- The 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 Tom Mason at 316-269-4574 with the City of Wichita with the anticipated construction start date and notify them of project completion. Staking and inspection for this project will be the responsibility of the Contractor.
- If traffic will be impacted by construction, a traffic control plan must be submitted and approved by the City Traffic Engineer, Brian Coon at 316-269-4574 before construction can begin. The Contractor shall be responsible for all traffic control measures to facilitate construction. All construction zone markings and signage shall conform to the latest version of the Manual on Uniform Traffic Control Devices (MUTCD) as published by the US Dept. of Transportation, Federal Highway Administration. All costs associated with construction markings and signage shall be the Contractors responsibility.
- All elevations shown are NAVD 88.
- All areas disturbed during construction that will not be under proposed pavement shall be restored to match existing conditions.
- Any sidewalk, drive approach, or street pavement removed to construct project must have a pavement cut permit and be replaced by the City contractor. Permits can be obtained by calling 316-269-4501 or 316-269-4480.
- City maintenance of storm sewer ends at the last structure in the easement or right-of-way.
- A portion of excess excavated material shall be mounded around manholes which extend more than one (1) foot above the existing ground. Such mound shall be constructed with new development a six (6) foot diameter flat top with 4 to 1 side slopes down to the original ground. The elevation of the flat top of the mound shall be 0.4 foot below the top to the manhole.
- Geotechnical report available upon request.
- Contractor shall limit the extent of trench openings overnight and weekends to less than 50 feet.
- The inspecting firm shall submit to the City Stormwater Maintenance Division a digital copy of the CCTV inspection of the conduits and structures following construction. The digital file formation shall be compatible with the City input template. A copy of the template is available upon request at 316-269-4090.
- The Contractor shall protect from damage and support existing utilities through construction as approved by the utility owner and the Engineer at the contractors expense.

STORM SEWER IMPROVEMENTS  
to serve  
**DAVE & BUSTER'S- WICHITA**  
2644 ~~2642~~ N GREENWICH CT.

CITY OF WICHITA, KANSAS

Gary Janzen, P.E. City Engineer  
Project Number  
535 PPD (133119)

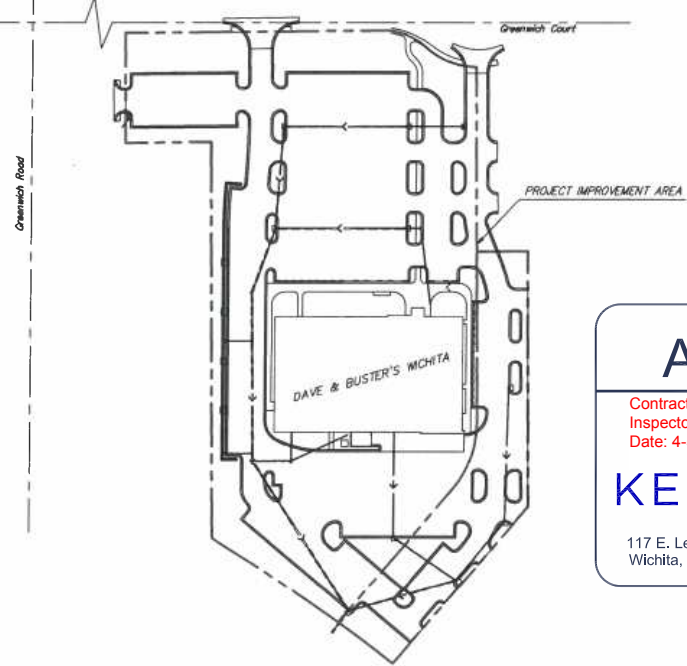


Vicinity Map

Sheet Index

- Title Sheet
- C2.0 Site Dimension Plan
- C3.2 Site Erosion and Sediment Control Plan
- C4.0 Site Utility Plan
- C4.1-4.2 Plan and Profiles
- C5.07-5.11 Site Details
- C6.00 Operation and Maintenance Plan
- Copy of Plat/Lot Split

**Stormwater Certification:**  
New Development or Redevelopment  
These construction plans were prepared in accordance with the current Stormwater Management Regulations as set forth in the City of Wichita's Stormwater Management Ordinance 16.32 and the policies/guidelines presented in the Wichita/Sedgewick County Stormwater Manual.  
Disturbed Area = 5.5 ACRES  
Water Quality Treatment: OFFSITE BMP PROGRAM  
Downstream Channel Protection: SEE BELOW  
Detention: PROVIDED BY GREENWICH COURT DRAINAGE PLANS  
The BMP used for this development is offsite BMP program.



**AS BUILTS**  
Contractor: Sooter Excavation  
Inspector: Matt Perez  
Date: 4-5-2019

**KEMILLER**  
ENGINEERING PA  
117 E. Lewis,  
Wichita, KS 67202 (316)264-0242

APPROVED AS NOTED  
BY WICHITA PUBLIC WORKS ENGINEERING AND STORMWATER DIVISION  
Engineering: Julianne Kallman 9-7-18  
Stormwater: Joe Hecker PE 9-10-18

NOTE TO CONTRACTORS  
Inspection and testing for this project is to be provided by a Licensed Consulting Engineering Firm under contract with the Owner/Developer. Said inspection to be in accordance with the City of Wichita standard construction engineering practices and certified by a Licensed Professional Engineer in the state of Kansas. No work shall be performed 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 current City of Wichita Specifications and Standards and Special Provisions. (on file and available at Wichita.gov).  
An approved copy of these plans signed by City staff are required on-site.

**Benchmarks**

BM#1: City of Wichita Benchmark Disc on west end of RQCB Headwall, 17.7' N & 33.9' W of the NW corner of Lot 1, Block A, 1st Hambleton 2nd Addition. Elev. = 1328.33 NAVD88  
BM#2: Railroad Spike in Power Pole 38.6' W & 1.0' S. of the first deflection corner south of the NE corner of Lot 1, Block A, 1st Hambleton 2nd Addition. Elev. = 1330.80 NAVD88

JULY 2018  
**TERRA**  
ENGINEERING LTD.  
225 W Ohio Street, Suite 400  
Chicago, IL 60654  
(773) 467-0123 | (F) 312-467-0220



WICHITA, KS 67226

2644 N. GREENWICH CT.

No.	Date	Remarks
06/20/18	ISSUED FOR PERMITS	
07/31/18	ISSUED FOR PERMITS	
07/18/18	ISSUED FOR PERMITS	

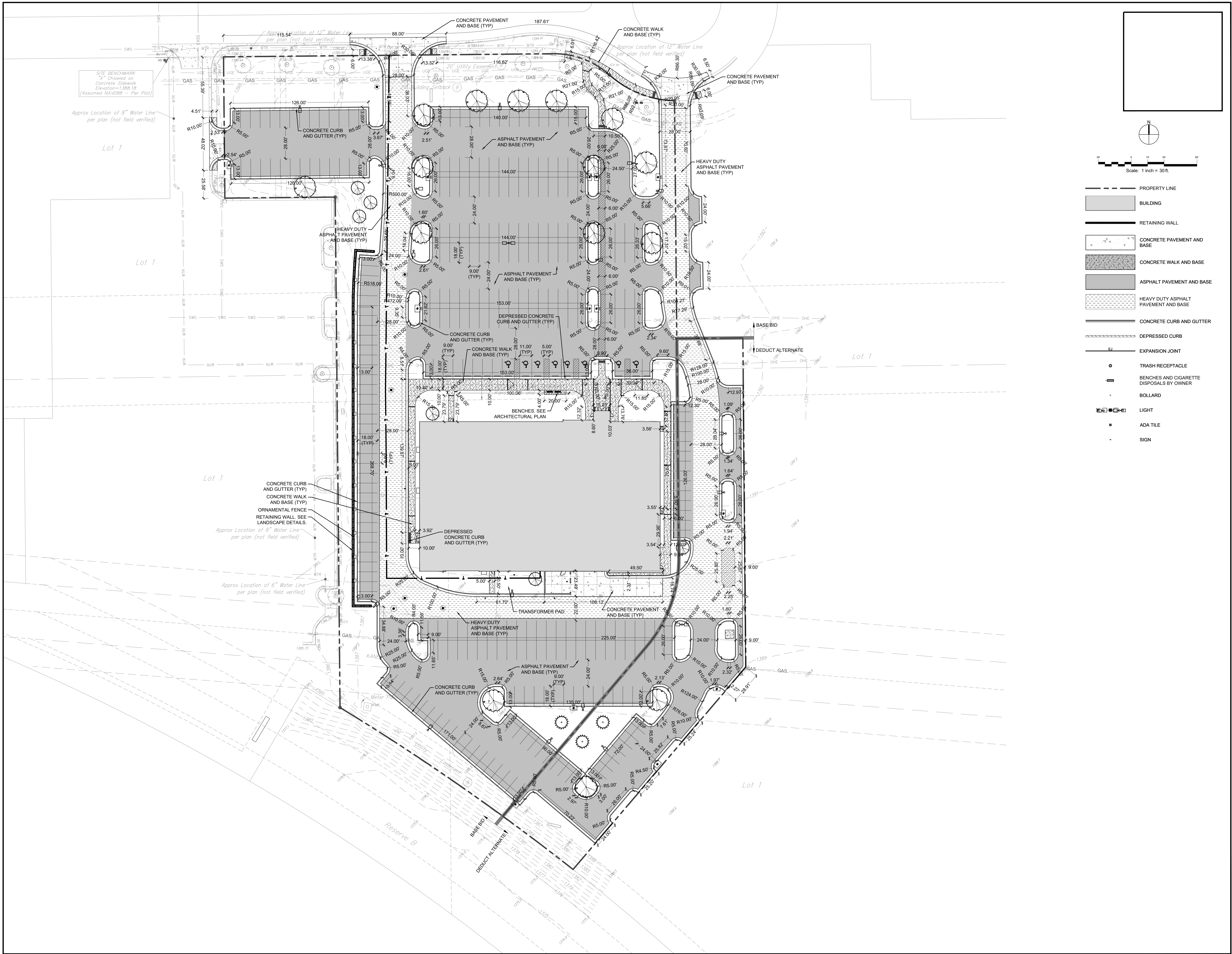
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Job No. 183929 Drawn ADH

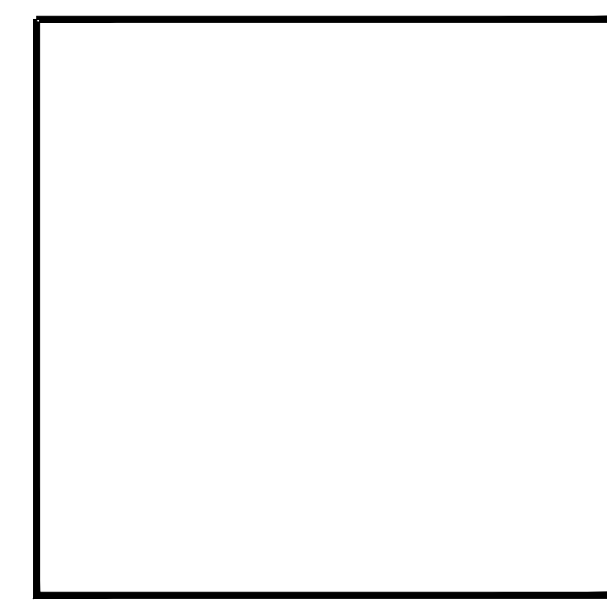
Scale AS NOTED Date 07/18/18

Sheet No.  
**C0.0**

C:\pw\_work\pw\_main\alexhdms13233\C2.0 Site Dimension Plan.dwg, C2.0, 8/20/2018 4:06 PM, Alex Heidtke



SITE BENCHMARK  
"X" Chiseled on  
Concrete Sidewalk  
Elevation=1398.18  
(Assumed NAVD88 - Per Plat)



Scale: 1 inch = 30 ft.

- PROPERTY LINE
- BUILDING
- RETAINING WALL
- ▨ CONCRETE PAVEMENT AND BASE
- ▩ CONCRETE WALK AND BASE
- ▧ ASPHALT PAVEMENT AND BASE
- ▨ HEAVY DUTY ASPHALT PAVEMENT AND BASE
- CONCRETE CURB AND GUTTER
- DEPRESSED CURB
- EXPANSION JOINT
- TRASH RECEPTACLE
- BENCHES AND CIGARETTE DISPOSALS BY OWNER
- BOLLARD
- LIGHT
- ADA TILE
- SIGN



No.	Date	Remarks
08/20/18	08/20/18	ISSUED FOR PERMIT
07/31/18	07/31/18	FOR CLIENT REVIEW
07/18/18	07/18/18	ISSUED FOR PERMIT

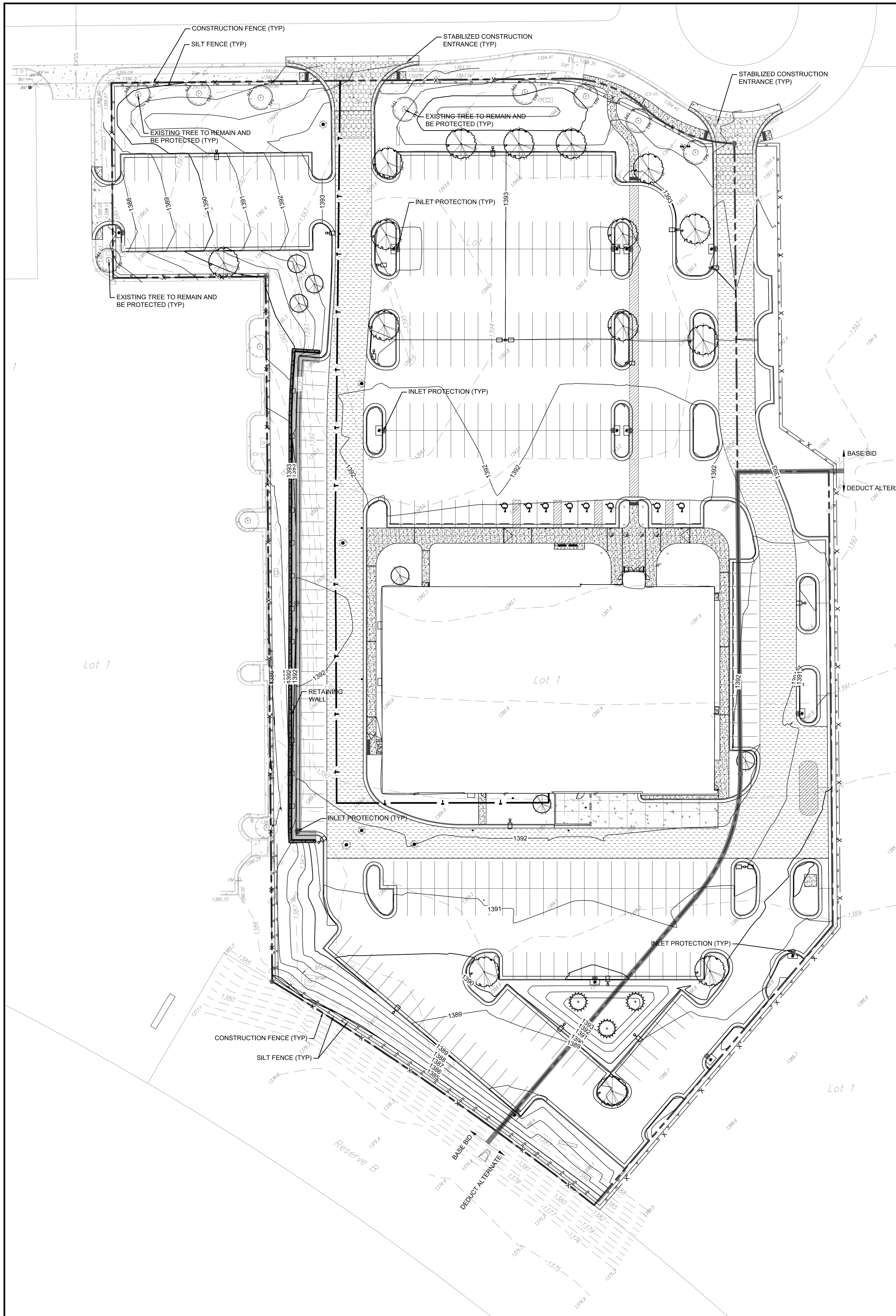
REVISIONS	

Drawing Title  
**SITE DIMENSION PLAN**

Job No. 183929	Drawn ADH
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Scale AS NOTED	Date 07/18/18
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Sheet No.  
**C2.0**



**STORMWATER POLLUTION PREVENTION PLAN (SWPPP) GENERAL NOTES**

- THE FOLLOWING IS A DESCRIPTION OF THE NATURE OF THE CONSTRUCTION ACTIVITY OR DEMOLITION WORK.
    - THIS PROJECT INCLUDES THE CONSTRUCTION OF A 30,000 SF COMMERCIAL BUILDING WITH ASSOCIATED PARKING LOT AND UTILITIES.
    - THE FOLLOWING IS A DESCRIPTION OF THE SEQUENCE OF MAJOR ACTIVITIES WHICH DISTURB SOILS FOR MAJOR PORTIONS OF THE SITE.
      - DEMOLITION
      - TOPSOIL STRIPPING
      - GRADING
      - CONSTRUCTION OF PROPOSED IMPROVEMENTS
      - TOPSOIL RESPREAD
      - PLANTINGS AND FINAL STABILIZATION
      - REMOVAL OF TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL MEASURES
  - THE FOLLOWING IS AN ESTIMATE OF THE TOTAL AREA OF THE SITE AND THE TOTAL AREA OF THE SITE THAT IS EXPECTED TO BE DISTURBED BY EXCAVATION, GRADING, OR OTHER ACTIVITIES.
    - SITE AREA: 5.5 ACRES
    - DISTURBED AREA: 5.5 ACRES
  - THE FOLLOWING IS AN ESTIMATE OF THE RUNOFF COEFFICIENT OF THE SITE BEFORE AND AFTER CONSTRUCTION ACTIVITIES ARE COMPLETED AND EXISTING DATA DESCRIBING THE SOIL OR THE QUALITY OF ANY DISCHARGE FROM THE SITE.
    - PRE-DEVELOPMENT RUNOFF COEFFICIENT: 0.25
    - POST-DEVELOPMENT RUNOFF COEFFICIENT: 0.78
  - SOIL TYPES: LEAN TO FAT CLAY, GOESSEL SILTY CLAY AND ROSELHIL SILTY CLAY. APPROXIMATE SLOPES ANTICIPATED BEFORE AND AFTER MAJOR GRADING ACTIVITIES. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE AND CONTROLS TO PREVENT OFFSITE SEDIMENT TRACKING, AREAS OF SOIL DISTURBANCE, THE LOCATION OF MAJOR STRUCTURAL AND NONSTRUCTURAL CONTROLS IDENTIFIED IN THIS PLAN, AND THE LOCATION OF AREAS WHERE STABILIZATION PRACTICES ARE EXPECTED TO OCCUR. THE FOLLOWING IS THE NAME OF THE RECEIVING WATER AND WETLAND ACREAGE OF THE SITE: RECEIVING WATER: WALNUT CREEK WETLAND ACREAGE: 0 AC
- GENERAL NOTES**
- THE PERMITTEE SHALL MAKE THE SWPPP AVAILABLE UPON REQUEST BY THE KDHE OR GOVERNING LOCAL AGENCY APPROVING SEDIMENT AND EROSION CONTROL PLANS, GRADING PLANS, OR STORMWATER MANAGEMENT PLANS.
  - THE KDHE MAY NOTIFY THE PERMITTEE AT ANY TIME THAT THE SWPPP DOES NOT MEET ONE OR MORE OF THE MINIMUM REQUIREMENTS OF THE KANSAS CONSTRUCTION GENERAL PERMIT. SUCH NOTIFICATION SHALL IDENTIFY THOSE PROVISIONS OF THE NPDES GENERAL PERMIT WHICH ARE NOT BEING MET BY THE SWPPP, AND IDENTIFY WHICH PROVISIONS OF THE PLAN REQUIRES MODIFICATIONS IN ORDER TO MEET THE MINIMUM REQUIREMENTS OF THE KANSAS CONSTRUCTION GENERAL PERMIT. WITHIN SEVEN (7) DAYS OF RECEIPT OF NOTIFICATION FROM THE KDHE, THE PERMITTEE SHALL MAKE THE REQUIRED CHANGES TO THE SWPPP AND SHALL SUBMIT TO THE KDHE A WRITTEN CERTIFICATION THAT THE REQUESTED CHANGES HAVE BEEN MADE. FAILURE TO COMPLY SHALL TERMINATE AUTHORIZATION UNDER THE KANSAS CONSTRUCTION GENERAL PERMIT.
  - A COPY OF THE LETTER OF NOTIFICATION OF COVERAGE ALONG WITH THE NPDES STORMWATER RUNOFF FROM CONSTRUCTION ACTIVITIES GENERAL PERMIT OR OTHER INDICATION THAT STORM WATER DISCHARGES FROM THE SITE ARE COVERED UNDER AN NPDES PERMIT SHALL BE POSTED AT THE SITE IN A PROMINENT PLACE FOR PUBLIC VIEWING.
  - ALL SWPPP AND ALL COMPLETED INSPECTION FORMS/REPORTS REQUIRED UNDER THIS PERMIT ARE CONSIDERED REPORTS THAT SHALL BE AVAILABLE TO THE PUBLIC AT ANY REASONABLE TIME UPON REQUEST.
  - THE PERMITTEE SHALL AMEND THE SWPPP WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE, WHICH HAS A SIGNIFICANT EFFECT ON THE POTENTIAL FOR THE DISCHARGE OF POLLUTANTS TO WATERS OF THE STATE AND WHICH HAS NOT OTHERWISE BEEN ADDRESSED IN A PLAN OR IF THE SWPPP PROVES TO BE INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANTS FROM SOURCES IDENTIFIED IN THE KANSAS CONSTRUCTION STORMWATER GENERAL PERMIT, OR IN OTHERWISE ACHIEVING THE GENERAL OBJECTIVES OF CONTROLLING POLLUTANTS IN STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION SITE ACTIVITY. IN ADDITION, THE PLAN SHALL BE AMENDED TO IDENTIFY ANY NEW CONTRACTOR AND/OR SUBCONTRACTOR THAT WILL IMPLEMENT A MEASURE OF THE SWPPP. AMENDMENTS TO THE SWPPP MAY BE REVIEWED BY THE KDHE IN ACCORDANCE WITH THE PROVISIONS OF THE GENERAL PERMIT. ANY REVISIONS OF THE DOCUMENTS FOR THE SWPPP SHALL BE KEPT ON SITE AT ALL TIMES.
  - STABILIZATION OF DISTURBED AREAS MUST, AT A MINIMUM, BE INITIATED IMMEDIATELY WHENEVER ANY CLEARING, GRADING, EXCAVATING OR OTHER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE SITE, OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. STABILIZATION OF DISTURBED AREAS MUST BE INITIATED WITHIN ONE (1) WORKING DAY OF PERMANENT OR TEMPORARY CESSATION OF EARTH DISTURBING ACTIVITIES AND SHALL BE COMPLETED AS SOON AS POSSIBLE, BUT NOT LATER THAN 14 CALENDAR DAYS FROM THE INITIATION OF STABILIZATION WORK IN AN AREA. EXCEPTIONS TO THESE TIME FRAMES ARE SPECIFIED BELOW.
    - WHERE THE INITIATION OF STABILIZATION MEASURES IS PRECLUDED BY SNOW COVER, STABILIZATION SHALL BE INITIATED AS SOON AS PRACTICABLE.
    - ON AREAS WHERE CONSTRUCTION ACTIVITY HAS TEMPORARILY CEASED AND WILL RESUME AFTER 14 CALENDAR DAYS, A TEMPORARY STABILIZATION METHOD CAN BE USED. TEMPORARY STABILIZATION TECHNIQUES AND MATERIALS ARE AS SHOWN ON THE SWPPP.
  - THE PERMITTEE SHALL RETAIN COPIES OF THE SWPPP AND ALL REPORTS AND NOTICES REQUIRED BY THE NPDES GENERAL PERMIT. RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT (NOI) TO BE COVERED BY THE NPDES GENERAL PERMIT AND THE NOTICE OF PERMIT COVERAGE LETTER FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE PERMIT COVERAGE EXPIRES OR IS TERMINATED. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE KDHE AT ANY TIME.
  - THE PERMITTEE SHALL RETAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN AND ANY REVISIONS TO SAID PLAN REQUIRED BY THIS PERMIT AT THE CONSTRUCTION SITE FROM THE DATE OF PROJECT INITIATION TO THE DATE OF FINAL STABILIZATION.

**SWPPP INSPECTION NOTES AND SUGGESTED SCHEDULE**

- A RECORD OF THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR, WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE, AND WHEN STABILIZATION MEASURES ARE INITIATED SHALL BE RECORDED AS PAST OF THE SWPPP.
- STABILIZATION OF DISTURBED AREAS MUST, AT A MINIMUM, BE INITIATED IMMEDIATELY WHENEVER ANY CLEARING, GRADING, EXCAVATING, OR OTHER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE SITE, OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. THE DISTURBED AREAS SHALL BE PROTECTED FROM EROSION BY STABILIZING THE AREA WITH MULCH OR OTHER SIMILARLY EFFECTIVE SOIL STABILIZING BMPs. INITIAL STABILIZATION ACTIVITIES MUST BE COMPLETED WITHIN 14 DAYS AFTER SOIL DISTURBING ACTIVITIES CEASE. STABILIZATION OF DISTURBED AREAS IS NOT REQUIRED IF THE INTENDED FUNCTION OF A SPECIFIC AREA OF THE SITE NECESSITATES THAT IT REMAIN DISTURBED.
  - QUALIFIED PERSONNEL (PROVIDED BY THE PERMITTEE) SHALL INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FULLY STABILIZED. STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE AT LEAST ONCE EVERY 14 CALENDAR DAYS AND WITHIN 24-HOURS OF THE END OF A STORM OR BY THE END OF THE FOLLOWING BUSINESS OR WORK DAY THAT IS 1/2-INCH (0.5 INCH) OR GREATER IN RAINFALL (OR EQUIVALENT SNOWFALL) DEPTH. QUALIFIED PERSONNEL MEANS A PERSON KNOWLEDGEABLE IN THE PRINCIPLES AND PRACTICES OF EROSION AND SEDIMENT CONTROL MEASURES, SUCH AS A LICENSED PROFESSIONAL ENGINEER (P.E.), A CERTIFIED PROFESSIONAL EROSION AND SEDIMENT CONTROL (CPESC), A CERTIFIED EROSION AND SEDIMENT AND STORM WATER INSPECTOR (CESSWI), OR OTHER KNOWLEDGEABLE PERSON WHO POSSESSES THE SKILLS TO ASSESS CONDITIONS AT THE CONSTRUCTION SITE THAT COULD IMPACT STORM WATER QUALITY AND TO ASSESS THE EFFECTIVENESS OF ANY SEDIMENT AND EROSION CONTROL MEASURES SELECTED TO CONTROL THE QUALITY OF STORM WATER DISCHARGES FROM THE CONSTRUCTION SITE ACTIVITIES.
  - DISTURBED PROJECT AREAS THAT ARE TEMPORARILY STABILIZED DUE TO ICE, FROZEN SOIL CONDITIONS, OR CONSISTENT SNOW COVER SHALL BE NOTED ON THE INSPECTION REPORT AND SHALL BE INSPECTED WITHIN 14 DAYS AFTER SOIL CONDITIONS THAW OR THE SNOW OR ICE MELTS.
  - DISTURBED AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS OR SEDIMENT ENTERING THE DRAINAGE SYSTEM. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THIS PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING.
  - BASED ON THE RESULTS OF THE INSPECTION, THE DESCRIPTION OF POTENTIAL POLLUTANT SOURCES IDENTIFIED IN THE SWPPP AND IN ACCORDANCE WITH KDHE CONSTRUCTION STORMWATER GENERAL PERMIT, THE POLLUTION AND SEDIMENT CONTROL MEASURES INDICATED ON THE SWPPP SHALL BE REVISED AS APPROPRIATE AND AS SOON AS PRACTICABLE AFTER SUCH INSPECTION TO MINIMIZE THE POTENTIAL FOR SUCH DISCHARGES. MODIFICATIONS SHALL PROVIDE FOR A TIMELY IMPLEMENTATION OF ANY CHANGES TO THE SWPPP AND POLLUTION AND EROSION CONTROL MEASURES WITHIN SEVEN (7) CALENDAR DAYS FOLLOWING THE INSPECTION.
  - A REPORT SUMMARIZING THE SCOPE OF THE INSPECTION, NAME(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, THE DATE(S) OF THE INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE SWPPP, AND ACTIONS TAKEN IN ACCORDANCE WITH KDHE CONSTRUCTION STORMWATER GENERAL PERMIT, SHALL BE MADE AND RETAINED AS PART OF THE SWPPP FOR AT LEAST THREE (3) YEARS FROM THE DATE THAT THE KDHE CONSTRUCTION STORMWATER GENERAL PERMIT COVERAGE EXPIRES OR IS TERMINATED. ALL INSPECTION REPORTS SHALL BE RETAINED AT THE CONSTRUCTION SITE. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH SIGNATORY REQUIREMENTS OF NPDES GENERAL PERMIT.

**SWPPP SUGGESTED MAINTENANCE PRACTICES AND SCHEDULE**

- STORM SEWER SYSTEM HYDRODYNAMIC SEPARATOR**
- AS NEEDED/ONGOING
    - REMOVE TRASH AND DEBRIS THAT COLLECTS ON SURFACE OF DRAINAGE STRUCTURES AT FLARED END SECTIONS.
    - REMOVE ACCUMULATED TRASH AND DEBRIS FROM TRASH RACK INSIDE OF CONTROL STRUCTURE.
    - GRASS DRAINAGE SWALES REQUIRE PERIODIC FERTILIZING, DE-THACHING, AND SOIL CONDITIONING.
    - MOW AND TRIM VEGETATION WITHIN GRASS DRAINAGE SWALES. CARE SHOULD BE TAKEN TO AVOID GRASS CLIPPINGS FROM CLOGGING THE FLARED END SECTION OR DRAINAGE STRUCTURE TO WHICH THE SWALE DRAINS.
  - PERFORM ROUTINE MAINTENANCE PER MANUFACTURER'S OPERATION AND MAINTENANCE PROCEDURES.

**STORMWATER MANAGEMENT CONTROLS**

- PROVIDED BELOW IS A DESCRIPTION OF MEASURES THAT WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL POLLUTANTS IN STORM WATER DISCHARGES THAT WILL OCCUR AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED.
  - THE PERMANENT STORM WATER POLLUTANT CONTROL MEASURES INCLUDE:
    - HYDRODYNAMIC SEPARATOR
- EROSION AND SEDIMENTATION CONTROLS
  - STABILIZATION PRACTICES
    - PROVIDED BELOW ARE INTERIM AND PERMANENT STABILIZATION PRACTICES THAT WILL BE IMPLEMENTED TO STABILIZE THE DISTURBED AREA OF THE SITE:
      - TEMPORARY SEEDING AND MULCHING OR OTHER SIMILARLY EFFECTIVE SOIL STABILIZING BMP
      - PERMANENT SEEDING AND MULCHING OR OTHER SIMILARLY EFFECTIVE SOIL STABILIZING BMP
      - MULCHING
      - EROSION CONTROL BLANKET
  - STRUCTURAL PRACTICES
    - PROVIDED BELOW IS A DESCRIPTION OF STRUCTURAL PRACTICES THAT WILL BE IMPLEMENTED TO DIVERT FLOWS FROM EXPOSED SOILS, STORE FLOWS OR OTHERWISE LIMIT RUNOFF AND THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE:
      - SILT FENCES
      - FILTER BASKETS

**OTHER CONTROLS**

- THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS SHALL BE MINIMIZED. WASH WATERS MUST BE FREE OF DETERGENTS, SOAPS, OR SOLVENTS AND MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THE PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE.
- THE EXPOSURE OF BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE, AND OTHER MATERIALS PRESENT ON THE SITE TO PRECIPITATION AND TO STORMWATER EXCEPT WHERE THE EXPOSURE TO PRECIPITATION AND TO STORMWATER WILL NOT RESULT IN A DISCHARGE OF POLLUTANTS, OR WHERE EXPOSURE OF A SPECIFIC MATERIAL OR PRODUCT POSSES LITTLE RISK OF STORMWATER CONTAMINATION (SUCH AS FINAL PRODUCTS AND MATERIALS INTENDED FOR OUTDOOR USE).
- THE DISCHARGE OF POLLUTANTS FROM SPILLS AND LEAKS SHALL BE MINIMIZED AND CHEMICAL SPILL AND LEAK PREVENTION AND RESPONSE PROCEDURES SHALL BE IMPLEMENTED.
- CONTRACTOR SHALL PROVIDE SOLID AND HAZARDOUS WASTE MANAGEMENT INCLUDING PROVIDING TRASH CONTAINERS AND REGULAR SITE CLEAN UP FOR PROPER DISPOSAL OF SOLID WASTE SUCH AS SCRAP BUILDING MATERIAL, PRODUCT/MATERIAL SHIPPING WASTE, FOOD CONTAINERS, AND CUPS AS WELL AS CONTAINERS AND PROPER DISPOSAL FOR WASTE PAINTS, SOLVENTS, AND CLEANING COMPOUNDS.
- PORTABLE TOILETS SHALL BE REQUIRED FOR PROPER DISPOSAL OF SANITARY SEWAGE.
- CONSTRUCTION MATERIALS SHALL BE STORED AWAY FROM DRAINAGE COURSES AND LOW AREAS.
- CONTAINMENT BERMS AND DRIP PANS SHALL BE REQUIRED AT FUEL AND LIQUID STORAGE TANKS AND CONTAINERS.
- PROCEDURES SHALL BE PROVIDED THAT ELIMINATE OR MINIMIZE THE POTENTIAL TO DISCHARGE ENVIRONMENTAL CONTAMINANTS FROM CONTAMINATED SOIL OR GROUNDWATER.

**BEST MANAGEMENT PRACTICES FOR IMPAIRED WATERS**

- THIS SITE DOES NOT DISCHARGE DIRECTLY TO AN IMPAIRED WATER IDENTIFIED IN THE KDHE'S CURRENT 303(D) LISTING FOR SUSPENDED SOLIDS, TURBIDITY, OR SILTATION.
- OTHER CONTROLS**
- NO SOLID MATERIALS, INCLUDING BUILDING MATERIALS, SHALL BE DISCHARGED INTO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
  - SANITARY SEWAGE WILL BE DISCHARGED TO THE PROPOSED SANITARY SEWER CONSTRUCTED PER LOCAL STANDARDS.

**SWPPP OWNER/OPERATION CERTIFICATION STATEMENT**

I CERTIFY UNDER PENALTY OF LAW THAT THE SWPPP AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL, PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED, BASED ON MY INQUIRY OF THE PERSON OR PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

OWNER/OPERATORS PRINTED NAME \_\_\_\_\_  
 OWNER/OPERATORS SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

**SWPPP CONTRACTOR/SUBCONTRACTOR CERTIFICATION STATEMENT**

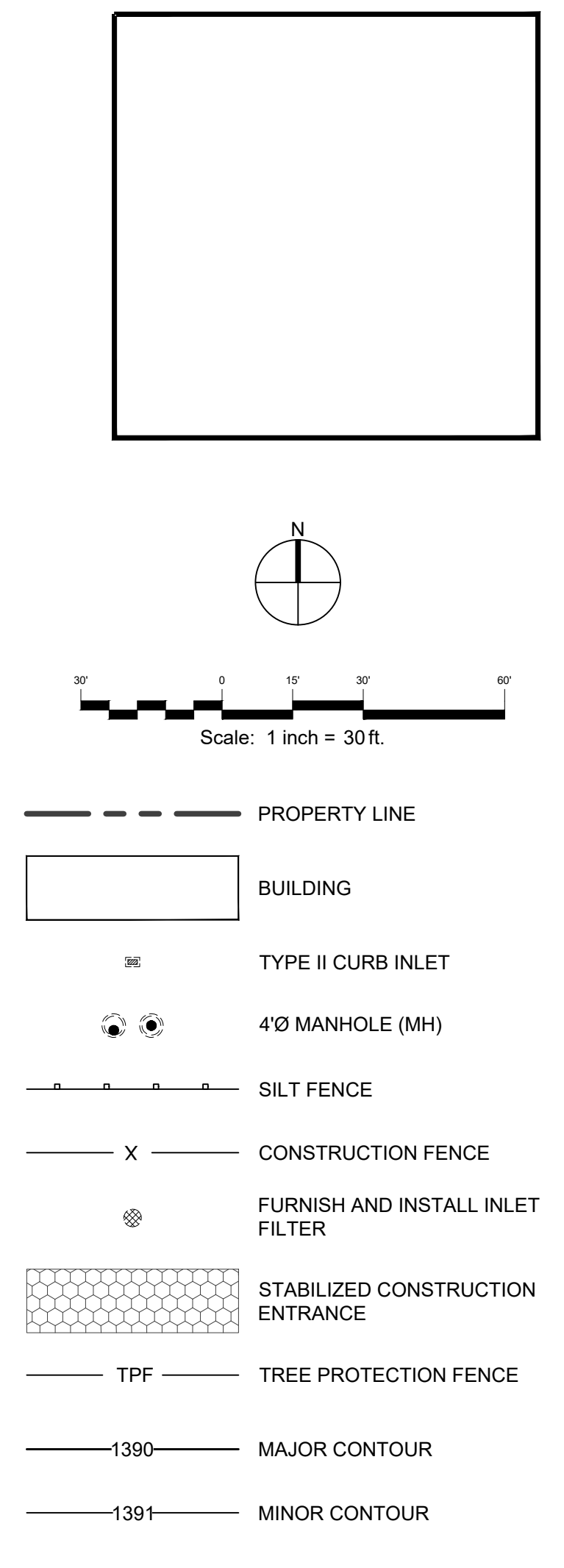
I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT (LR10) THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

CONTRACTOR PRINTED NAME \_\_\_\_\_  
 CONTRACTOR SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_  
 SUBCONTRACTOR PRINTED NAME \_\_\_\_\_  
 SUBCONTRACTOR SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

**SWPPP INSPECTION CERTIFICATION STATEMENT**

I CERTIFY UNDER PENALTY OF LAW THAT THE SWPPP AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED, BASED ON MY INQUIRY OF THE PERSON OR PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

PRINTED NAME AND TITLE \_\_\_\_\_  
 SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_



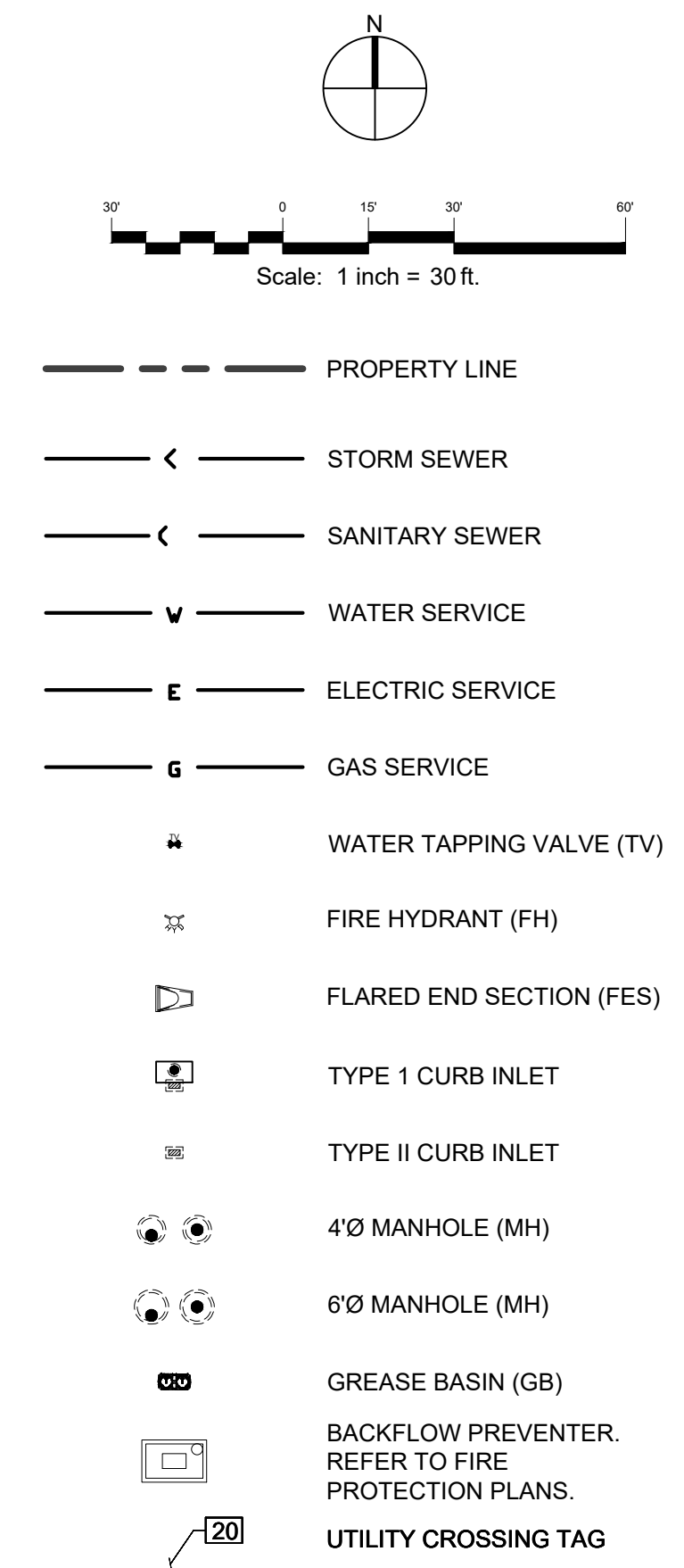
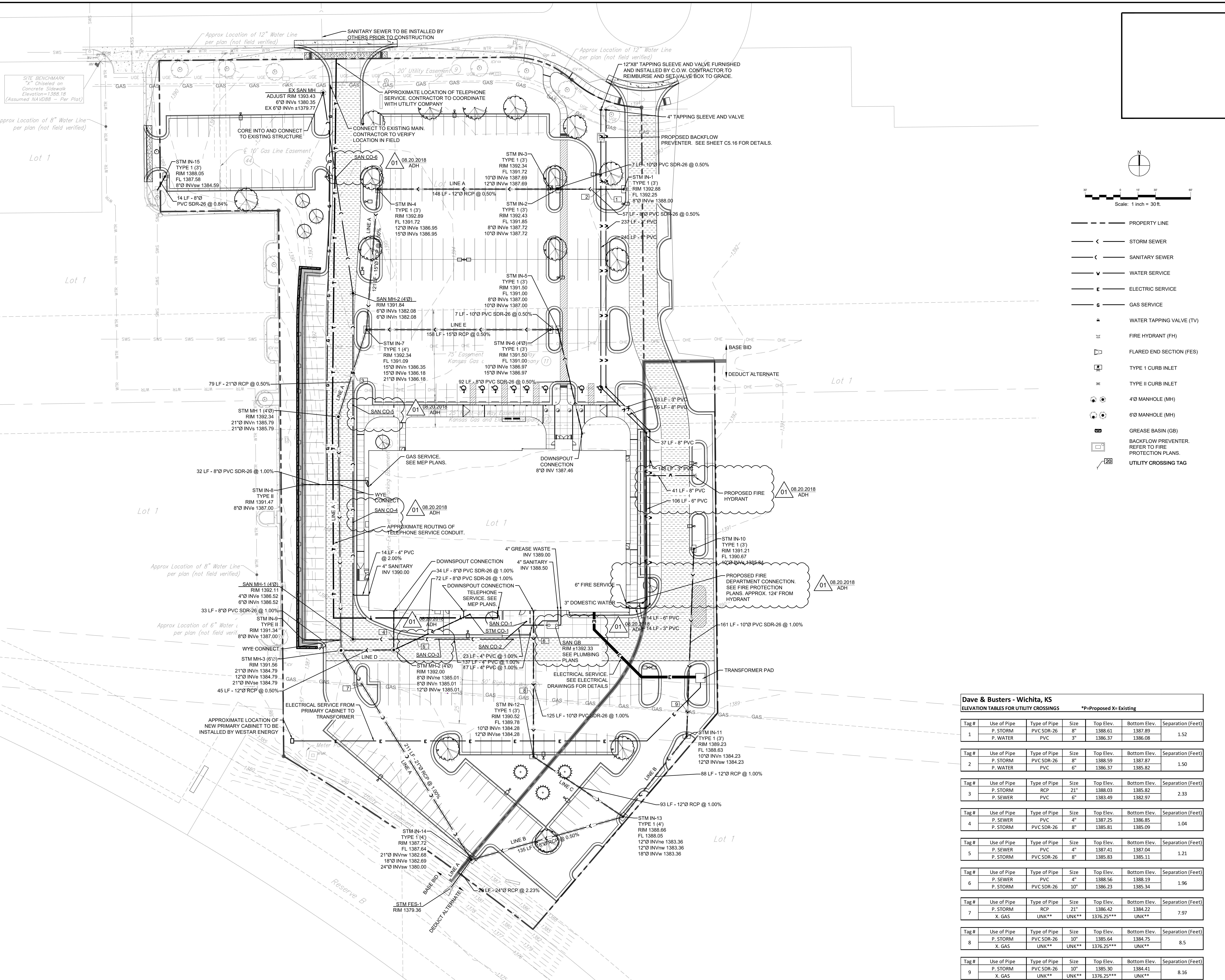
No.	Date	Remarks
08/20/18	08/20/18	ISSUED FOR PERMIT
07/31/18	07/31/18	REVISED FOR PERMIT
07/18/18	07/18/18	ISSUED FOR PERMIT

**REVISIONS**

Drawing Title  
**SITE EROSION AND SEDIMENT CONTROL PLAN**

Job No. 183929  
 Drawn ADH  
 Scale AS NOTED  
 Date 07/18/18

Sheet No.  
**C3.2**



**Dave & Busters - Wichita, KS**  
ELEVATION TABLES FOR UTILITY CROSSINGS \*P=Proposed X= Existing

Tag #	Use of Pipe	Type of Pipe	Size	Top Elev.	Bottom Elev.	Separation (Feet)
1	P. STORM	PVC SDR-26	8"	1388.61	1387.89	1.52
	P. WATER	PVC	3"	1386.37	1386.08	
2	P. STORM	PVC	8"	1388.59	1387.87	1.50
	P. WATER	PVC	6"	1386.37	1385.82	
3	P. STORM	RCP	21"	1388.03	1385.82	2.33
	P. SEWER	PVC	6"	1383.49	1382.97	
4	P. SEWER	PVC	4"	1387.25	1386.85	1.04
	P. STORM	PVC SDR-26	8"	1385.81	1385.09	
5	P. SEWER	PVC	4"	1387.41	1387.04	1.21
	P. STORM	PVC SDR-26	8"	1385.83	1385.11	
6	P. SEWER	PVC	4"	1388.56	1388.19	1.96
	P. STORM	PVC SDR-26	10"	1386.23	1385.34	
7	P. STORM	RCP	21"	1386.42	1384.22	7.97
	X. GAS	UNK**	UNK**	1376.25***	UNK**	
8	P. STORM	PVC SDR-26	10"	1385.64	1384.75	8.5
	X. GAS	UNK**	UNK**	1376.25***	UNK**	
9	P. STORM	PVC SDR-26	10"	1385.30	1384.41	8.16
	X. GAS	UNK**	UNK**	1376.25***	UNK**	

\*\*Unknown. To be verified in field.  
\*\*\*Approximate elevation. To be verified in field.

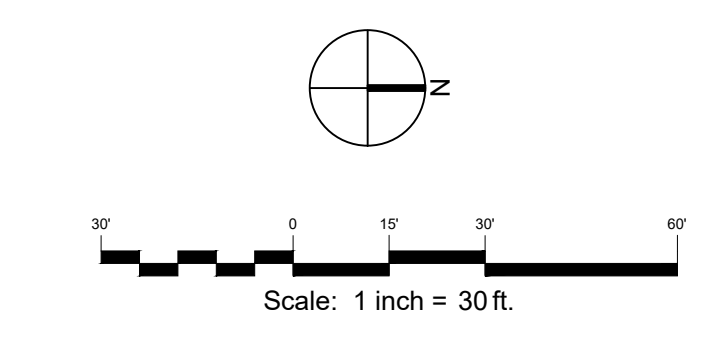
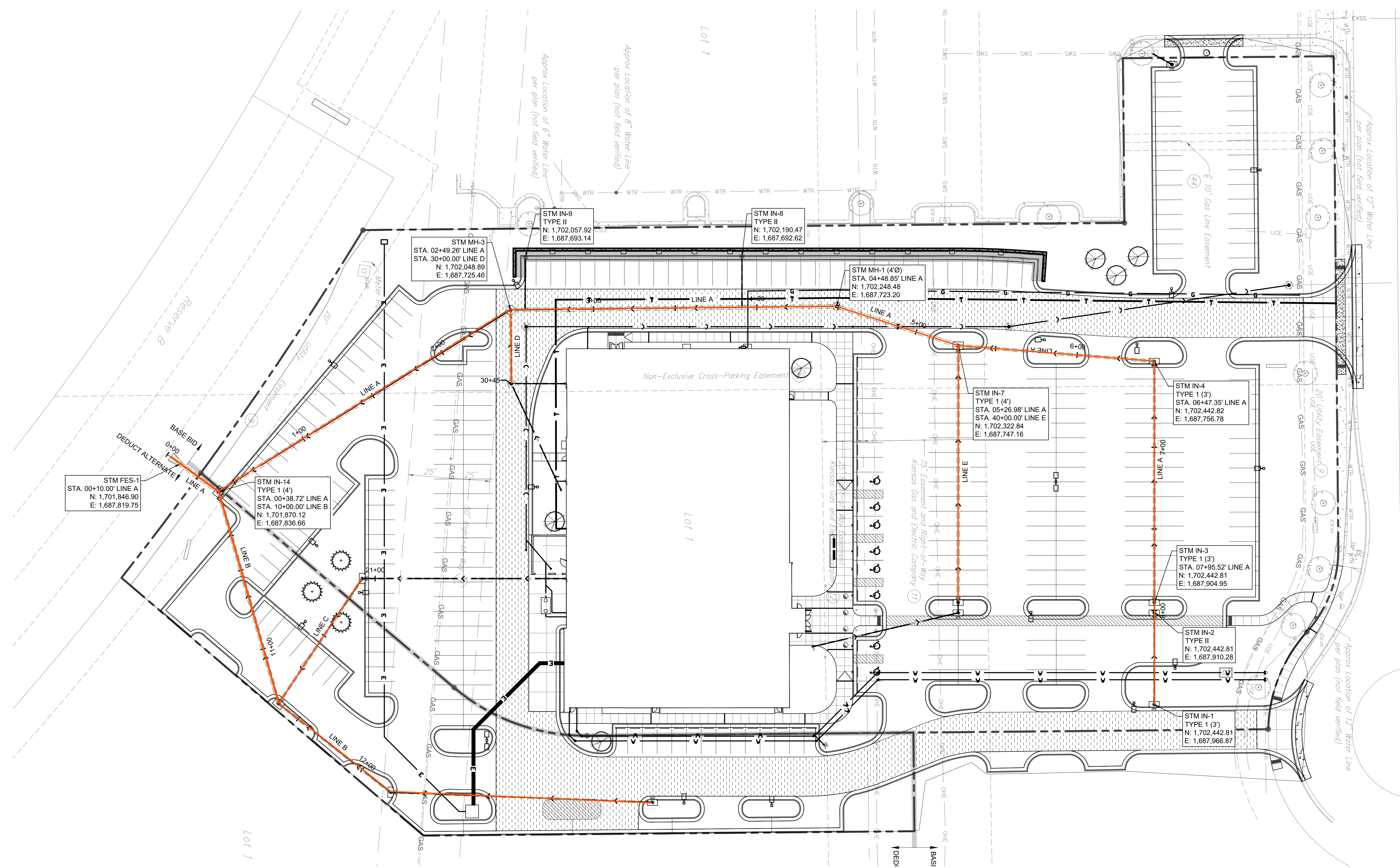
REVISIONS

No	Date	Remarks
01	08/20/18	ISSUED FOR PERMIT
02	07/31/18	REVISED FOR CLIENT
03	07/18/18	ISSUED FOR PERMIT

Drawing Title  
**SITE UTILITY PLAN**

Job No. 183929	Drawn ADH/DK
Scale AS NOTED	Date 07/18/18

Sheet No.  
**C4.0**

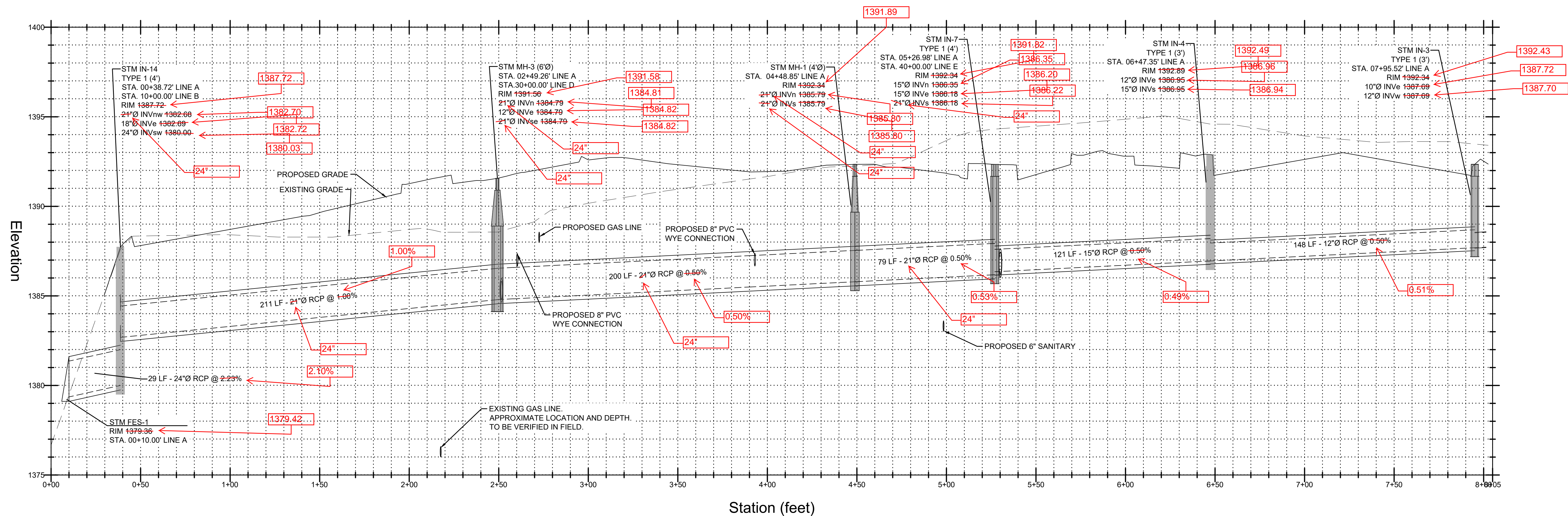


- PROPERTY LINE
- STORM SEWER
- SANITARY SEWER
- WATER SERVICE
- ELECTRIC SERVICE
- GAS SERVICE
- WATER TAPPING VALVE (TV)
- FIRE HYDRANT (FH)
- FLARED END SECTION (FES)
- TYPE I CURB INLET
- TYPE II CURB INLET
- 4" MANHOLE (MH)
- 6" MANHOLE (MH)
- GREASE BASIN (GB)
- BACKFLOW PREVENTER. REFER TO FIRE PROTECTION PLANS.

# AS BUILTS

Contractor: Sooter Excavation  
Inspector: Matt Perez  
Date: 4-5-2019

**KEMILLER**  
ENGINEERING PA  
117 E. Lewis,  
Wichita, KS 67202 (316)264-0242



1 STORM SEWER PROFILE FOR LINE A  
SCALE: H: 1" = 30', V: 1" = 10'

No.	Date	Remarks
08/20/18	08/20/18	ISSUED FOR PERMITS
07/31/18	07/31/18	REVISED FOR CLIENT
07/18/18	07/18/18	ISSUED FOR PERMITS

Revision	Date	By	Checked	Remarks

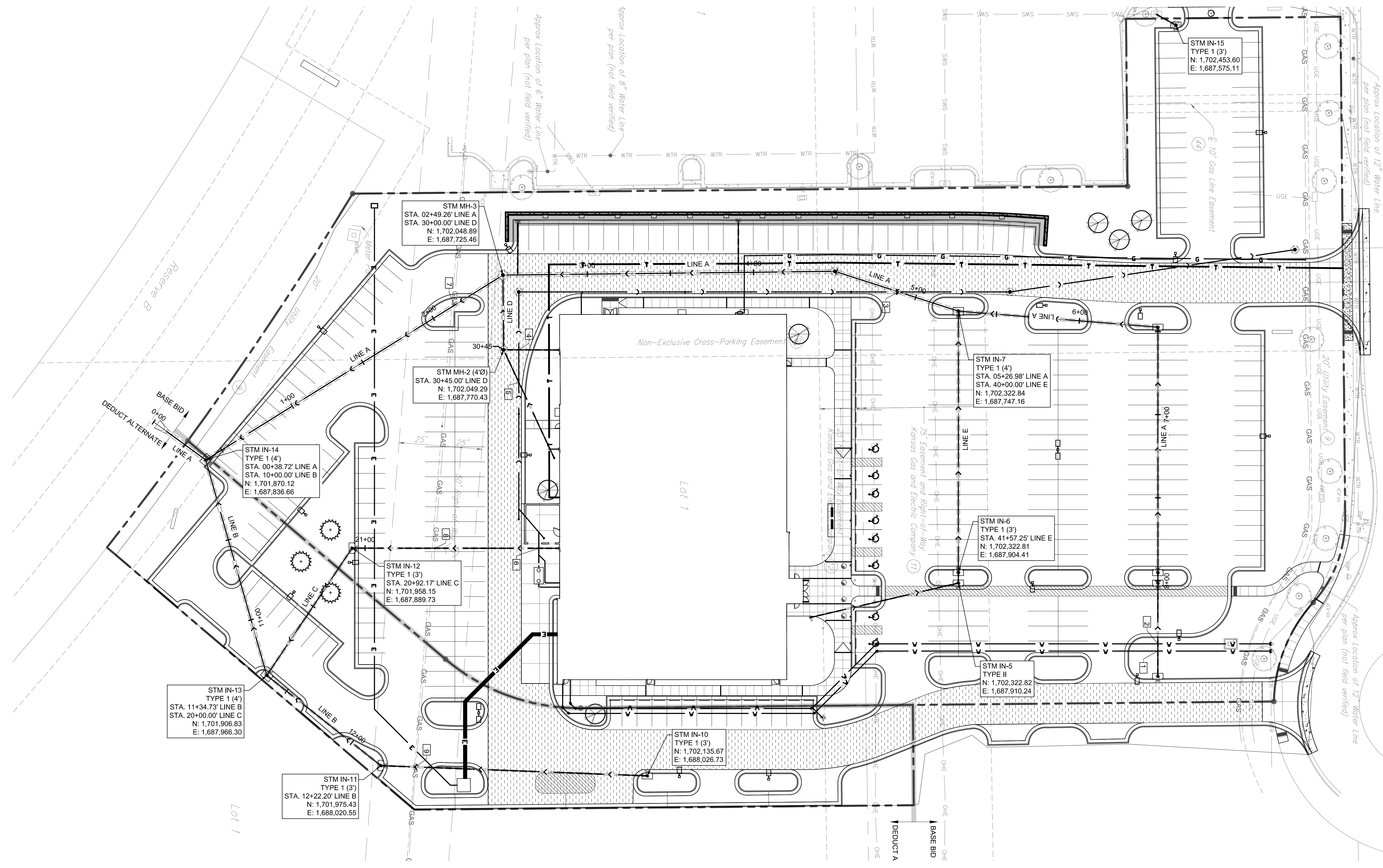
Drawing Title  
**STORM SEWER PLAN AND PROFILE Line A**

Job No. 183929  
Drawn ADH/DK

Scale AS NOTED  
Date 07/18/18

Sheet No.

**C4.1**

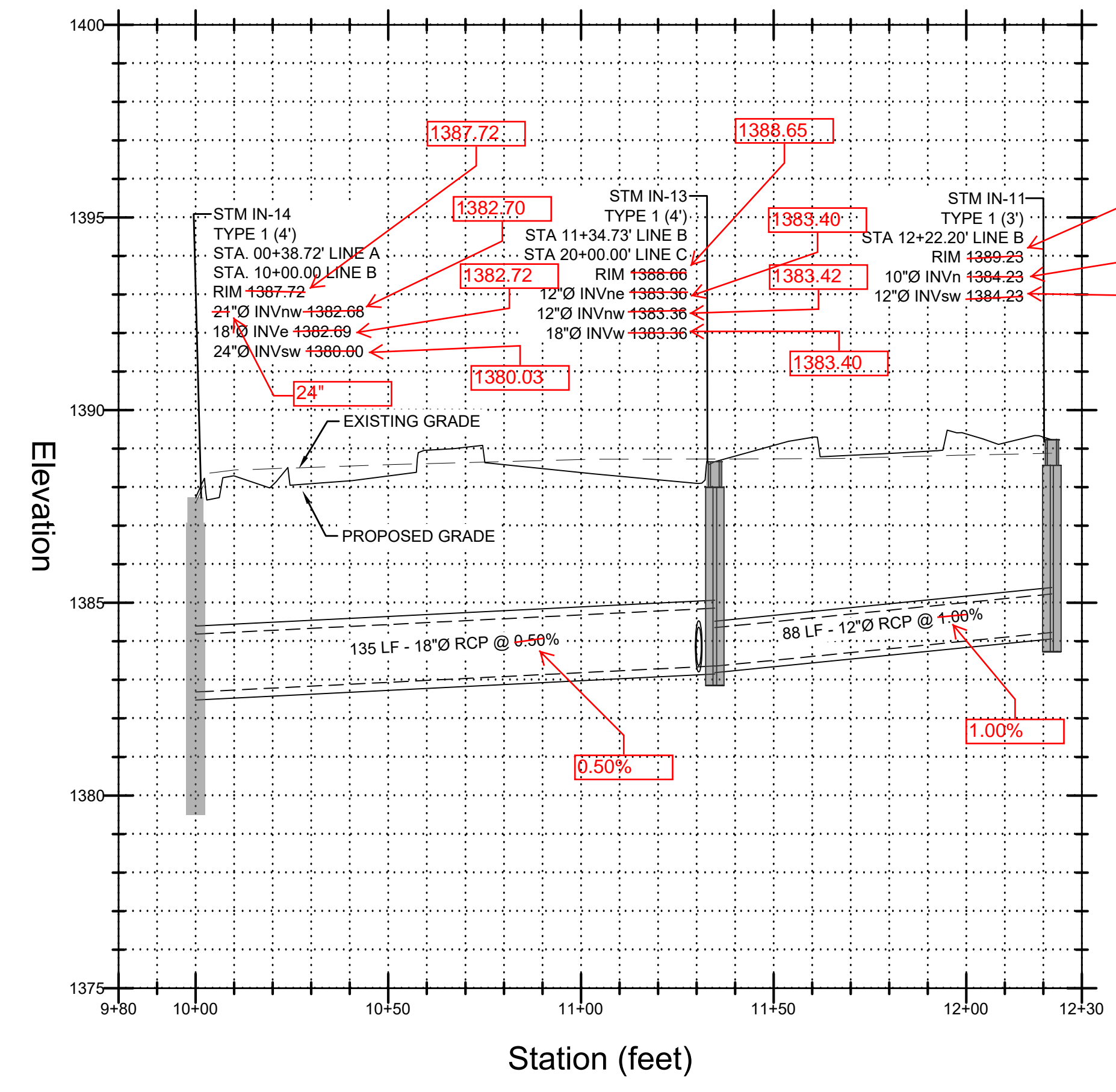


- PROPERTY LINE
- STORM SEWER
- SANITARY SEWER
- WATER SERVICE
- ELECTRIC SERVICE
- GAS SERVICE
- WATER TAPPING VALVE (TV)
- FIRE HYDRANT (FH)
- FLARED END SECTION (FES)
- TYPE I CURB INLET
- TYPE II CURB INLET
- 4" MANHOLE (MH)
- 6" MANHOLE (MH)
- GREASE BASIN (GB)
- BACKFLOW PREVENTER. REFER TO FIRE PROTECTION PLANS.
- DOWNSPOUT (DS)

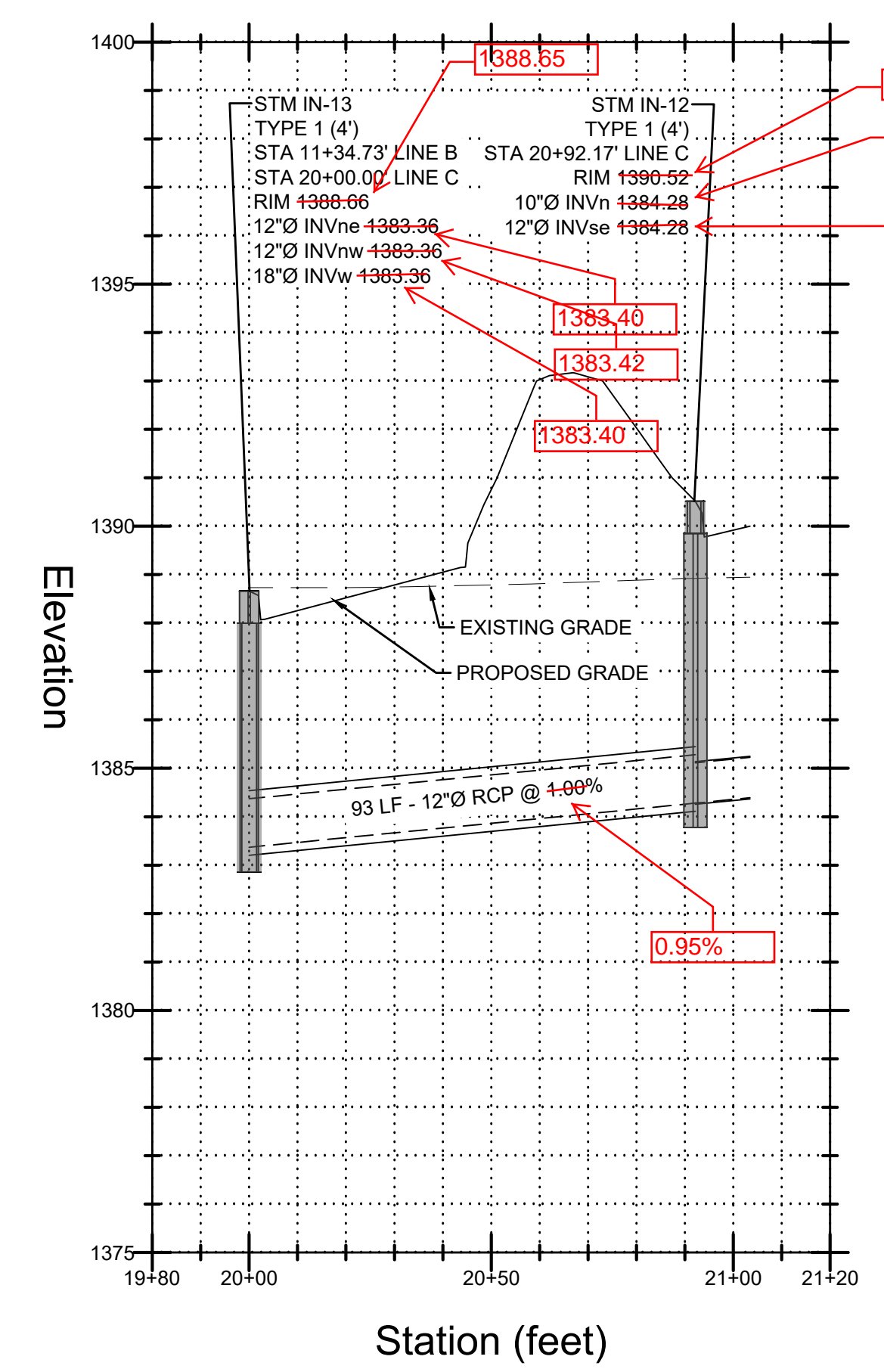
**AS BUILTS**

Contractor: Sooter Excavation  
Inspector: Matt Perez  
Date: 4-5-2019

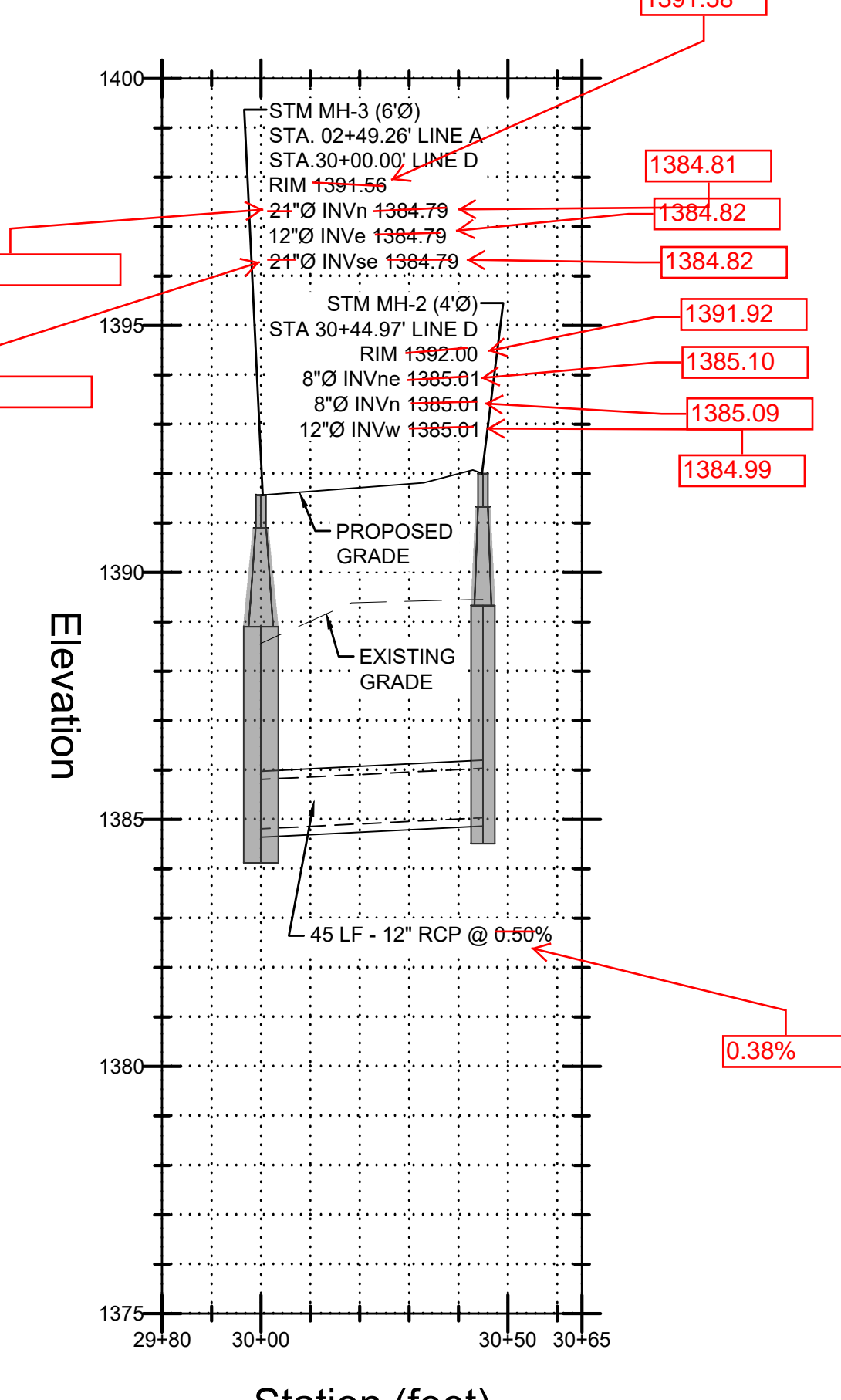
**KEMILLER ENGINEERING PA**  
117 E. Lewis,  
Wichita, KS 67202 (316)264-0242



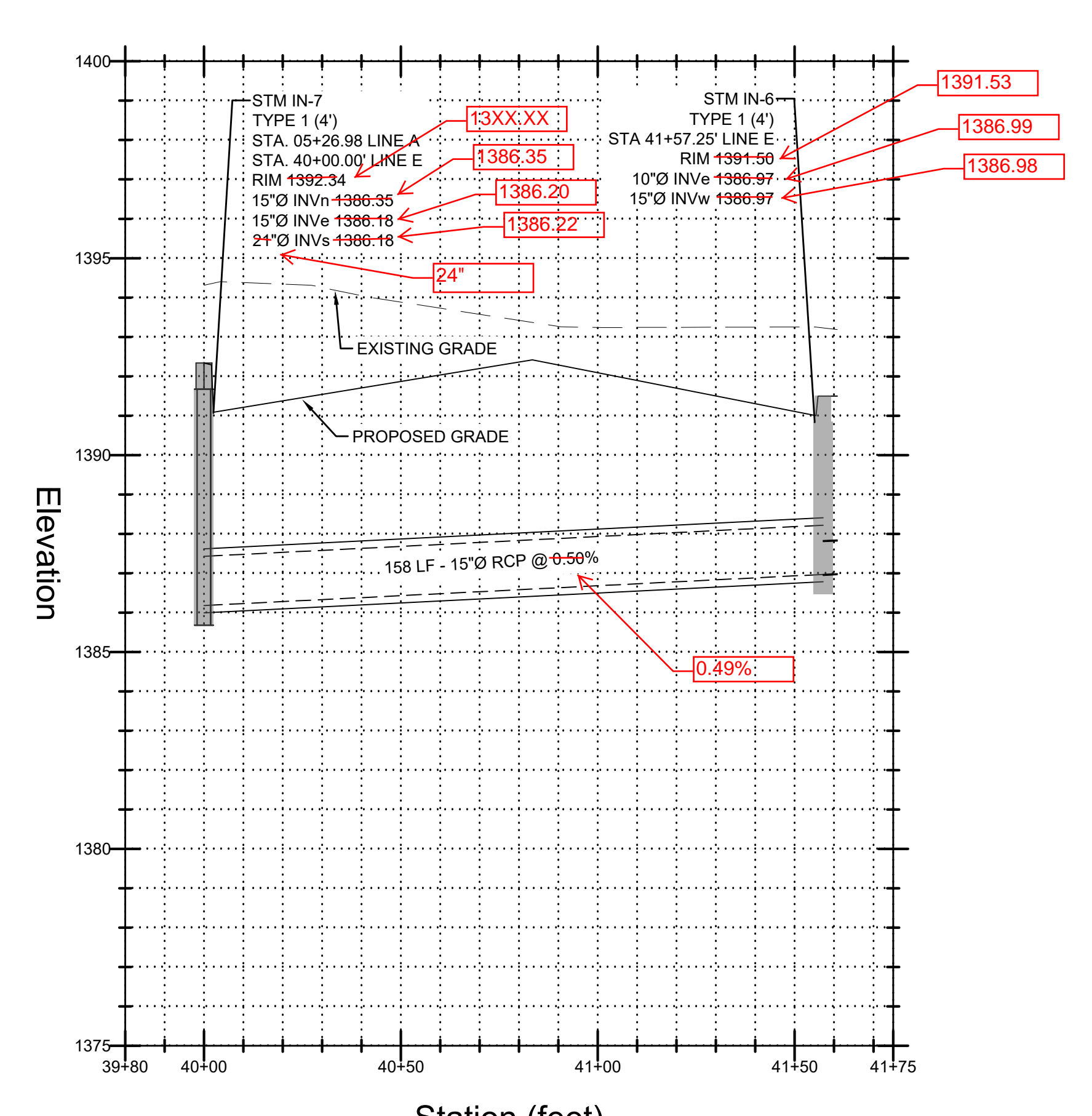
1 STORM SEWER PROFILE FOR LINE B  
SCALE: H: 1" = 30', V: 1" = 10'



2 STORM SEWER PROFILE FOR LINE C  
SCALE: H: 1" = 30', V: 1" = 10'



3 STORM SEWER PROFILE FOR LINE D  
SCALE: H: 1" = 30', V: 1" = 10'



4 STORM SEWER PROFILE FOR LINE E  
SCALE: H: 1" = 30', V: 1" = 10'

No.	Date	Remarks
08/20/18	07/31/18	ISSUED FOR PERMITS
07/31/18	07/18/18	ISSUED FOR PERMITS
07/18/18		ISSUED FOR PERMITS

REVISIONS

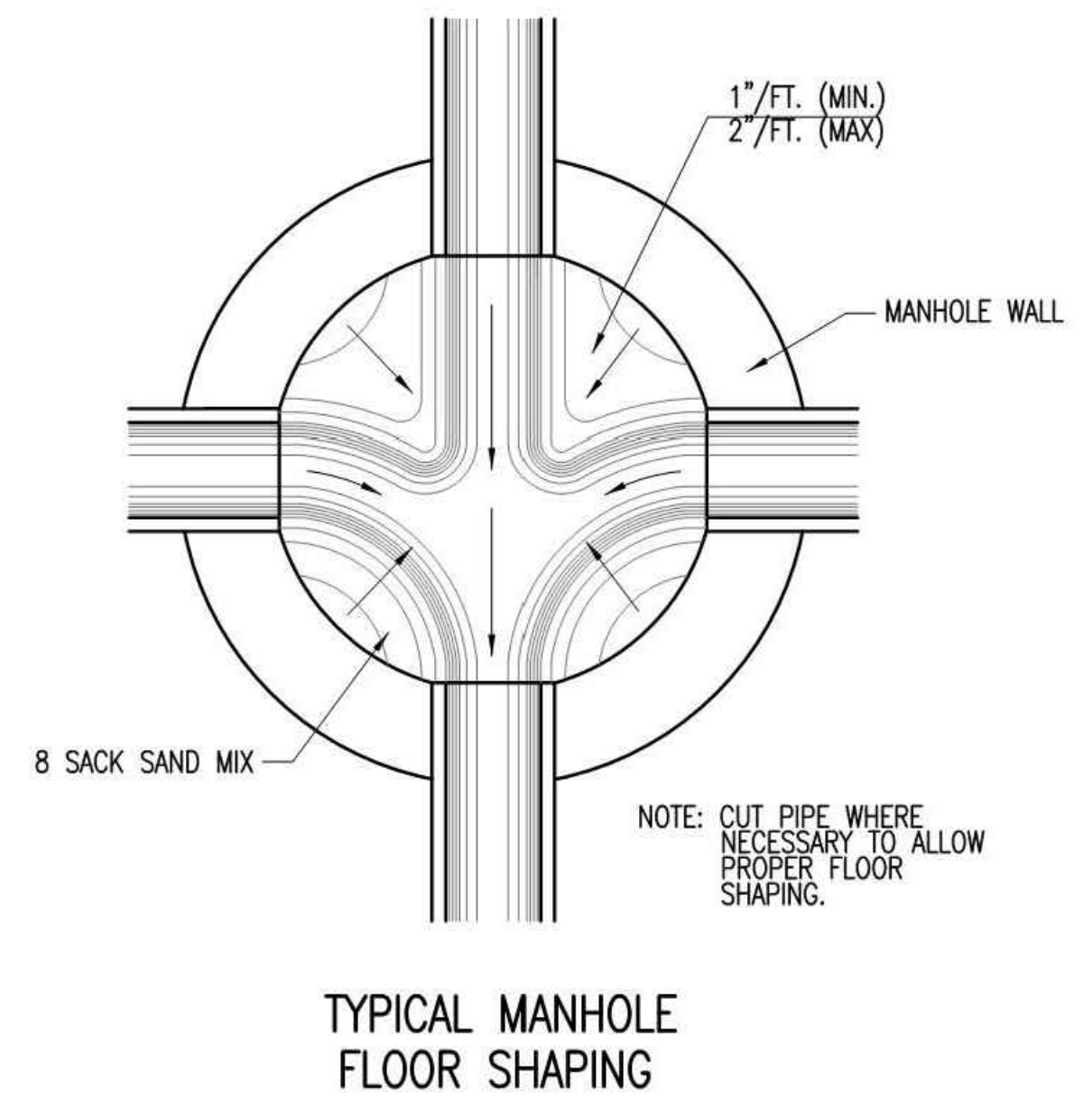
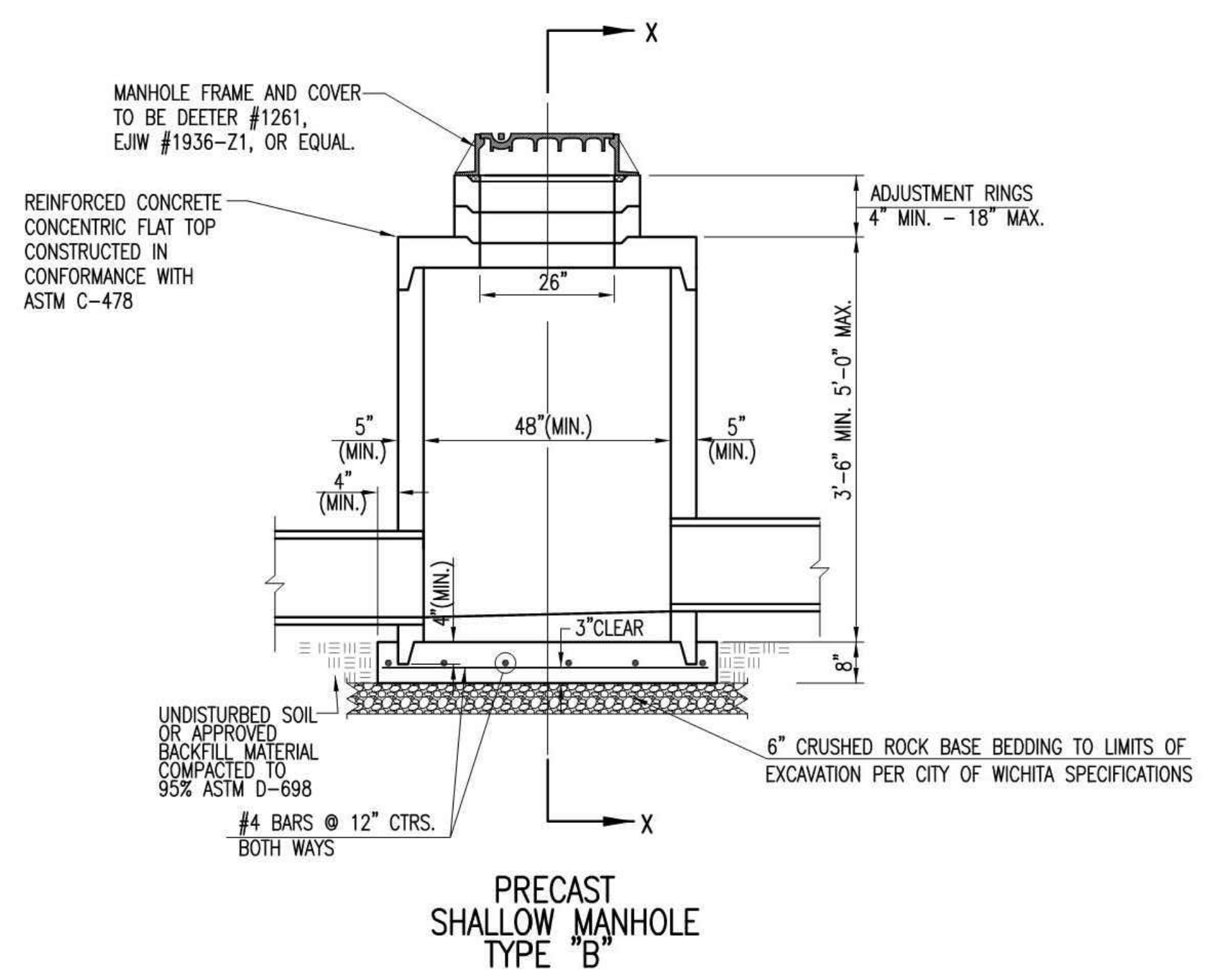
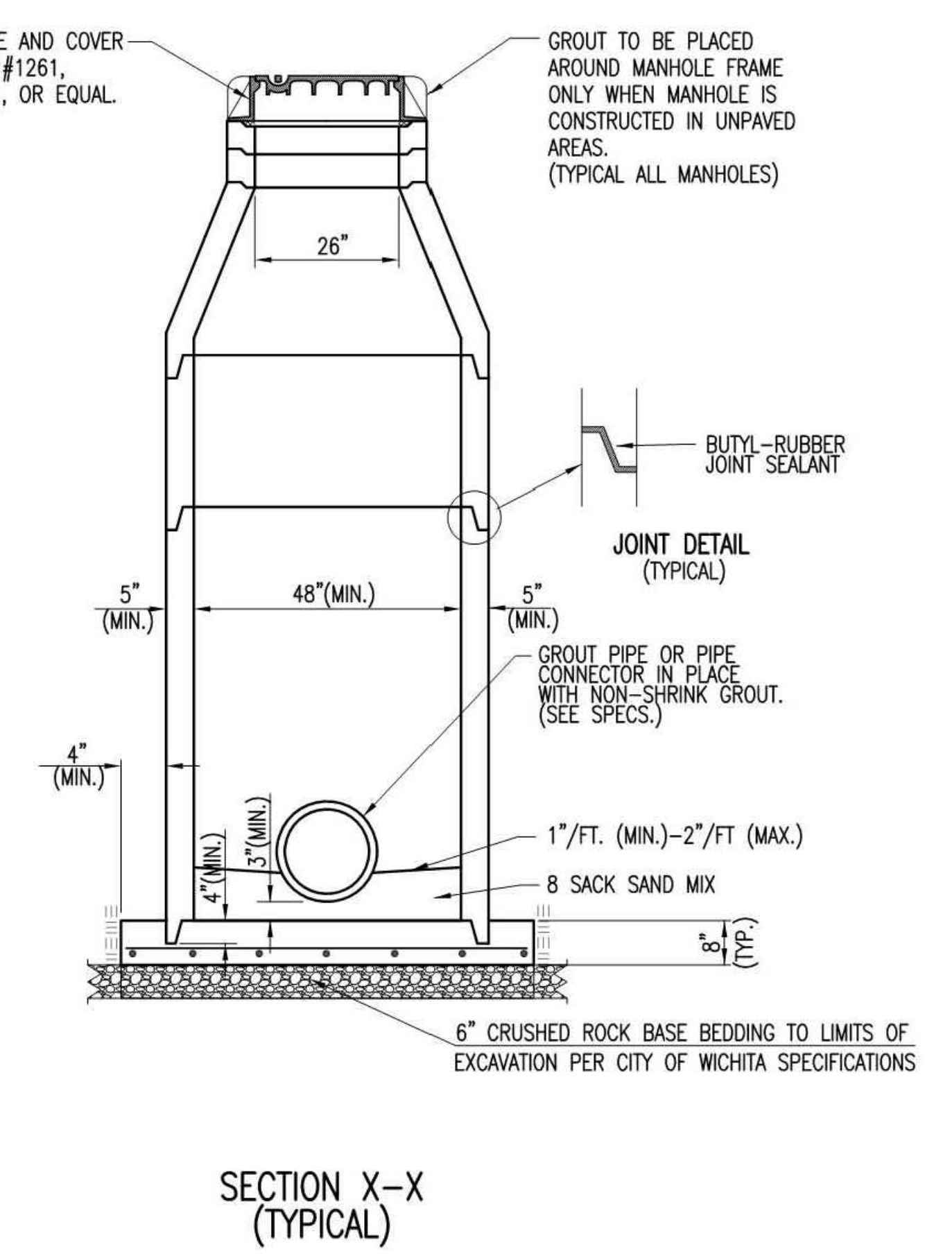
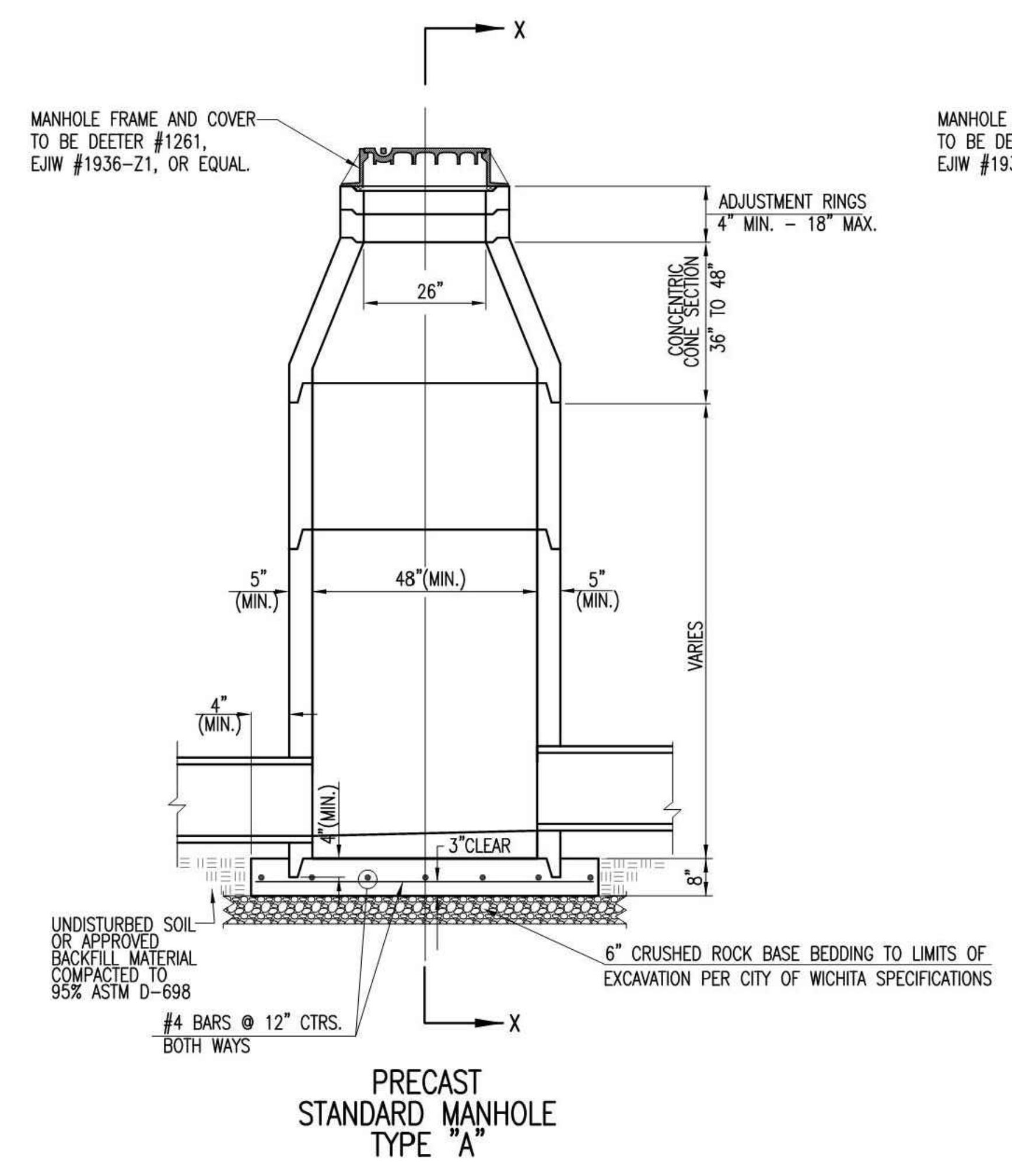
Drawing Title  
**STORM SEWER PLAN AND PROFILE Lines B, C, D, E**

Job No. 183929  
Drawn ADH/DK

Scale AS NOTED  
Date 07/18/18

Sheet No.

**C4.2**



GENERAL NOTES

- IF, IN THE OPINION OF THE ENGINEER, THE MANHOLE SUBGRADE APPEARS UNSTABLE, THE CONTRACTOR WILL HAVE THE OPTION TO COMPACT SUBGRADE AS SHOWN OR INCREASE THE THICKNESS OF THE MANHOLE BASE AS DIRECTED BY THE ENGINEER.
- STEEL REINFORCING WILL BE REQUIRED IN ALL MANHOLE BASES.
- ALL MANHOLE CONSTRUCTION SHALL BE WATER TIGHT.
- TOP OF MANHOLE FLOOR SLAB SHALL BE AT LEAST 3 INCHES BELOW THE FLOW LINE OF THE OUTLET PIPE TO INSURE SUFFICIENT MINIMUM THICKNESS OF SHAPED INVERT.
- ALL PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO THE LATEST REVISION OF ASTM C-478 AS MODIFIED BY THE SPECIFICATIONS.
- CONCRETE USED FOR MANHOLE CONSTRUCTION SHALL CONFORM TO CITY OF WICHITA SPECIFICATIONS FOR CONCRETE PAVEMENT MIX.
- PRECAST MANHOLES SHALL BE SET AT LEAST 4 INCHES INTO MANHOLE BASE.
- MANHOLES WITH PIPE SIZES 24" AND LARGER SHALL HAVE 5 FOOT INSIDE DIAMETER (MIN.)
- MANHOLES WITH PRECAST BASES MAY BE USED AT THE CONTRACTORS OPTION. THESE MANHOLES SHALL HAVE AN 8" MINIMUM BASE THICKNESS AND SHALL BE PLACED ON AN 8" MIN. CRUSHED ROCK BASE. PIPES SHALL BE ENCASED WITH CRUSHED ROCK TO AT LEAST 3 FEET FROM THE MANHOLE WALL.
- CONTRACTOR SHALL REMOVE LIFTING HOOKS AFTER INSTALLATION. RECESSES IN MANHOLE WALL SHALL BE GROUTED FLUSH TO THE MANHOLE WALL WITH HYDRAULIC CEMENT AFTER THE MANHOLE IS IN PLACE. LIFTING HOLES THRU THE MANHOLE WALL WILL NOT BE ACCEPTED.
- THE ENDS OF ALL PIPES IN MANHOLES SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE MANHOLE WALL.
- MANHOLE INVERT SHALL BE SHAPED WITH 8 SACK SAND MIX CONCRETE TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE MANHOLE WILL BE SELF CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.
- MANHOLE FRAME AND COVER TO BE DEETER #1261, EJIW #1936-21, OR APPROVED EQUAL, SEE SW-303.
- FOR FLAT GRATED INLET APPLICATION, GRATE TO BE DEETER #1933, EJIW #1205 MDI, OR APPROVED EQUAL.
- FOR BEEHIVE GRATE APPLICATION, GRATE TO BE DEETER #4495, EJIW #120545, OR APPROVED EQUAL.



REVISED: MARCH 2015

**PRECAST CONCRETE MANHOLE (STORM SEWER)**

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

SW-301

No.	Date	Remarks
08/20/18		RE-ISSUED FOR PERMITS
07/31/18		FOR CLIENT REVIEW
07/18/18		ISSUED FOR PERMITS

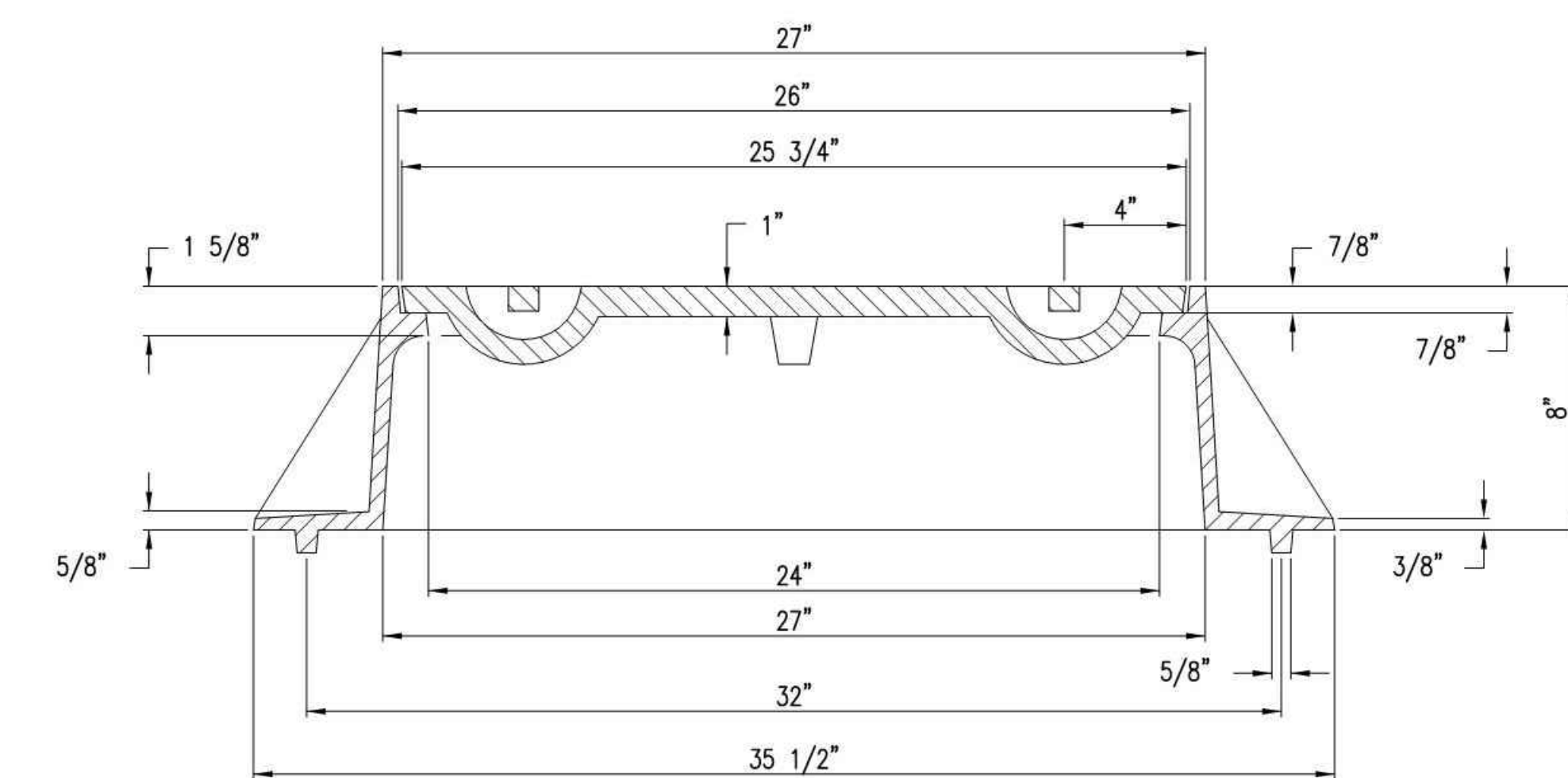
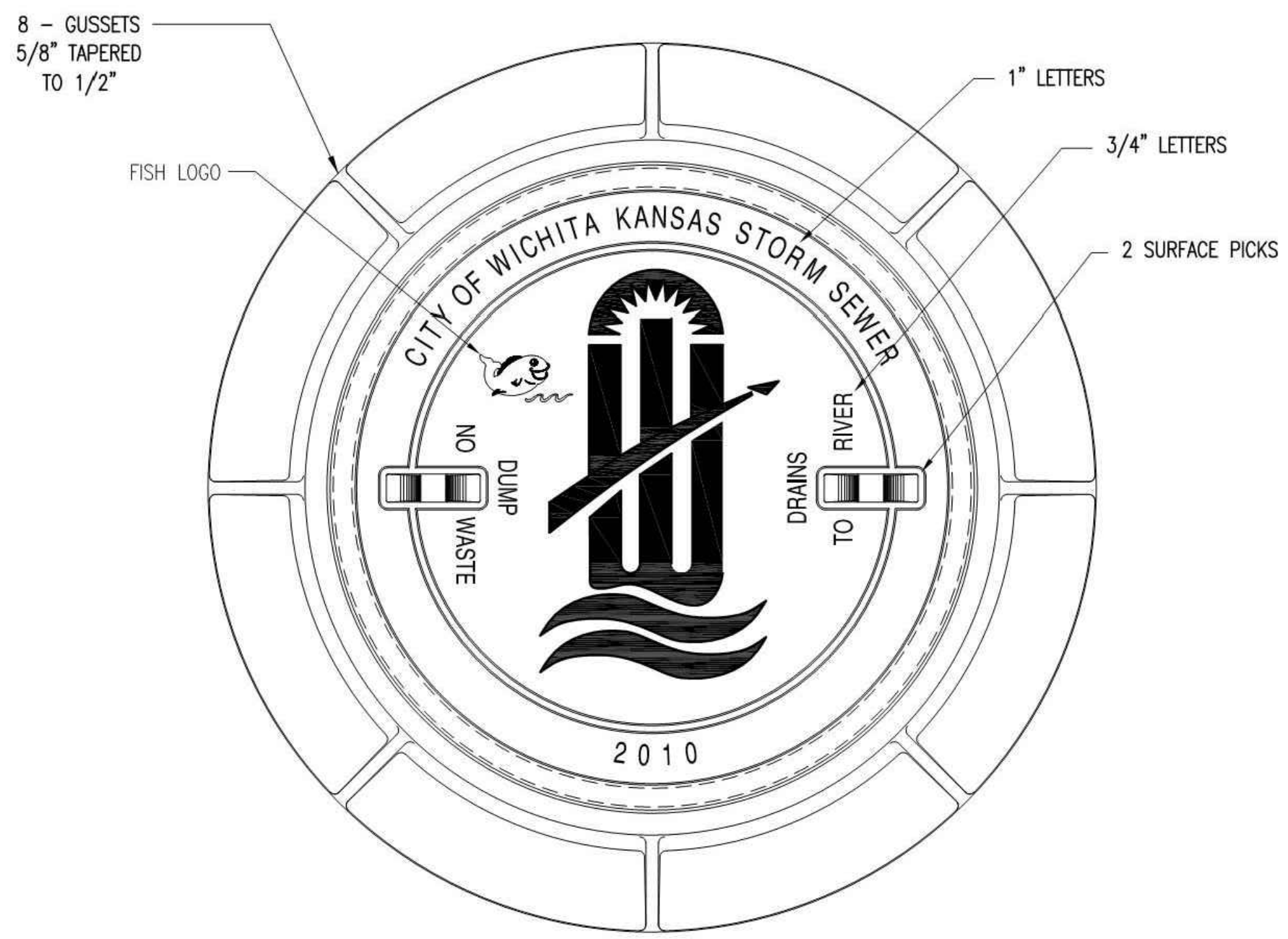
REVISIONS	

Drawing Title  
**SITE DETAILS**

Job No. 183929  
 Drawn ADH

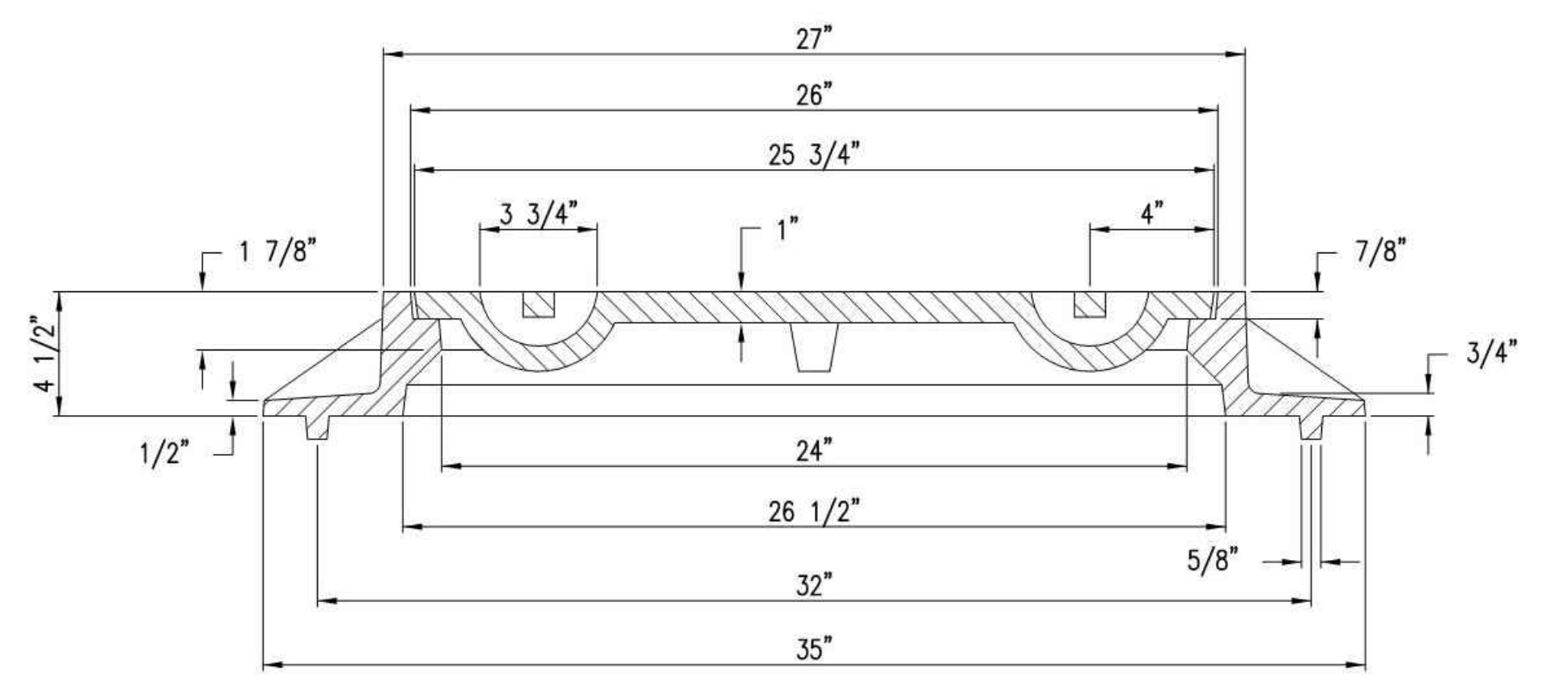
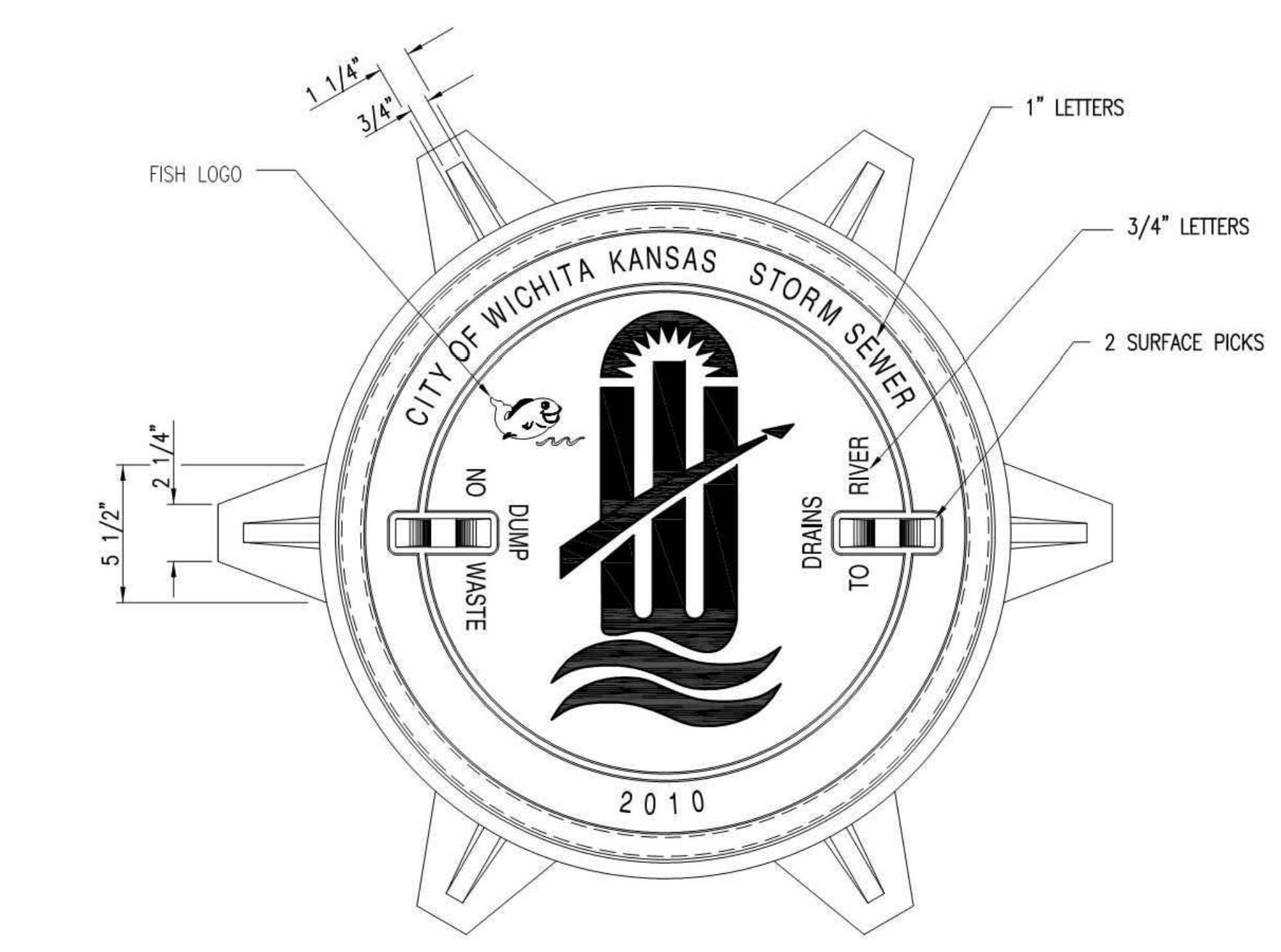
Scale AS NOTED  
 Date 07/18/18

Sheet No.  
**C5.07**



**MANHOLE FRAME**  
DEETER #1261 OR EJIW #1936-Z1

- NOTE:
1. FURNISHED WITH MACHINED HORIZONTAL BEARING SURFACE.
  2. COVER TO BE DEETER #1261 OR EJIW #1936A.



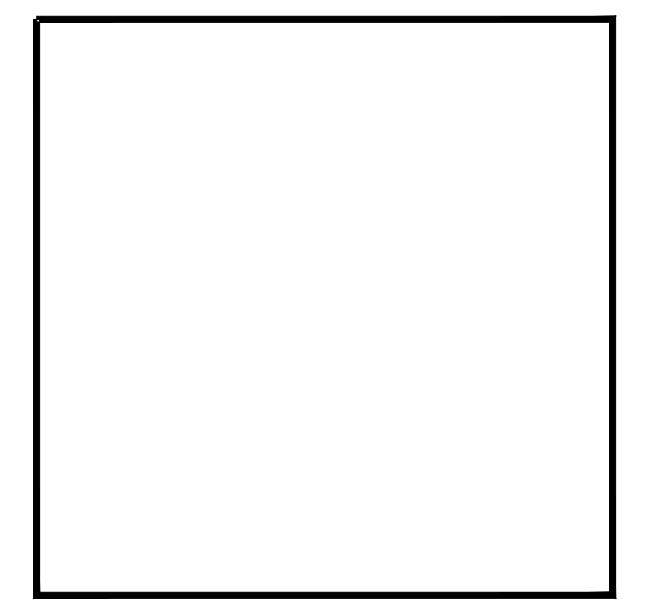
**INLET FRAME**  
DEETER #2014 OR EJIW #1936-Z4

- NOTE:
1. FURNISHED WITH MACHINED HORIZONTAL BEARING SURFACES.
  2. NOT TO BE USED UNDER PAVEMENT.
  3. COVER TO BE DEETER #1261 OR EJIW #1936A.



<b>MANHOLE/INLET FRAME AND COVER (STORM SEWER)</b>		
CITY ENGINEER <b>GARY JANZEN, P.E.</b>		
PROJECT NUMBER	OCA NUMBER	DATE
		11/2010
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		SHEET

51W-303



No.	Date	Remarks
08/20/18	11/2010	ISSUED FOR PERMIT
07/31/18		FOR CLIENT
07/18/18		ISSUED FOR PERMIT

REVISIONS	

Drawing Title  
**SITE DETAILS**

Job No. 183929  
Drawn ADH

Scale AS NOTED  
Date 07/18/18

Sheet No.  
**C5.08**

C:\pw\_work\pw\_main\alexhdms13293\C5.0 Site Details.dwg, C5.09, 8/20/2018 4:57 PM, Alex Heidke

Structure ID		Sewer Segment		Tributary Drainage Area		Weighted Runoff Coeff. C	Area X C		Time Of Concentration (T <sub>c</sub> )		Rainfall Intensity i (5yr)	Total Runoff (Q) (cfs)	Pipe Dia. (in)	Existing Slope (ft/100ft)	Pipe Area (Sq. Ft.)	Hydraulic Radius (ft)	Pipe Material	Manning's (n)	Q <sub>design</sub> Capacity (cfs)	% of Capacity	Flow Factor	Velocity	
From	To	Length (ft)	Increment (acres)	Impervious Areas (Asphalt/Concrete/Conventional Roof) C = 0.95 (acres)	Penious Areas, Lawns-Heavy Soil, Flat 0% To 2% Slope C = 0.30 (acres)		Incr.	Total	To Struct. (min.)	Section (min.)												Full (ft/sec)	Design (ft/sec)
STM IN-1	STM IN-2	50	0.087	0.050	0.037	0.67	0.06	0.06	5.00	0.31	6.64	0.39	8	0.50	0.35	0.17	PVC (Smooth)	0.012	1.01	38.5%	0.92	2.90	2.67
STM IN-2	STM IN-3	18	0.150	0.093	0.057	0.70	0.11	0.16	5.31	0.08	6.56	1.08	10	0.50	0.55	0.21	PVC (Smooth)	0.012	1.84	58.6%	1.06	3.37	3.57
STM IN-3	STM IN-4	120	0.306	0.221	0.085	0.77	0.24	0.40	5.40	0.46	6.54	2.61	12	0.50	0.79	0.25	RCP	0.013	2.99	87.6%	1.14	3.80	4.33
STM IN-4	STM IN-7	120	0.448	0.341	0.107	0.79	0.36	0.76	5.86	0.40	6.43	4.86	15	0.50	1.23	0.31	RCP	0.013	5.41	89.8%	1.14	4.41	5.03
NE DS	STM IN-5	90	0.028	0.028	0.000	0.95	0.03	0.03	5.00	0.69	6.64	0.17	8	0.50	0.35	0.17	PVC (Smooth)	0.012	1.01	17.2%	0.75	2.90	2.18
STM IN-5	STM IN-6	18	0.249	0.223	0.026	0.88	0.22	0.25	5.69	0.08	6.47	1.59	10	0.50	0.55	0.21	PVC (Smooth)	0.012	1.84	86.6%	1.14	3.37	3.84
STM IN-6	STM IN-7	152	0.302	0.256	0.046	0.85	0.26	0.50	5.77	0.54	6.45	3.25	15	0.50	1.23	0.31	RCP	0.013	5.41	60.0%	1.06	4.41	4.68
STM IN-7	STM MH-1	80	0.467	0.409	0.057	0.87	0.41	1.66	6.26	0.22	6.34	10.55	21	0.50	2.41	0.44	RCP	0.013	13.28	79.4%	1.10	5.52	6.07
STM IN-8	BT 21" RCP	32	0.183	0.173	0.010	0.92	0.17	0.17	5.00	0.12	6.64	1.11	8	1.00	0.35	0.17	PVC (Smooth)	0.012	1.43	77.7%	1.10	4.10	4.51
STM IN-9	BT 21" RCP	33	0.081	0.076	0.005	0.91	0.07	0.07	5.00	0.15	6.64	0.49	8	1.00	0.35	0.17	PVC (Smooth)	0.012	1.43	34.3%	0.90	4.10	3.69
STM MH-1	STM MH-3	200	0.000	0.000	0.000	0.00	0.00	1.91	6.48	0.53	6.28	11.98	21	0.50	2.41	0.44	RCP	0.013	13.28	90.2%	1.14	5.52	6.29
SW DS	STM MH-2	34	0.202	0.202	0.000	0.95	0.19	0.19	5.00	0.12	6.64	1.27	8	1.00	0.35	0.17	PVC (Smooth)	0.012	1.43	88.9%	1.14	4.10	4.68
S DS	STM MH-2	72	0.162	0.162	0.000	0.95	0.15	0.15	5.00	0.27	6.64	1.02	8	1.00	0.35	0.17	PVC (Smooth)	0.012	1.43	71.3%	1.10	4.10	4.51
STM MH-2	STM MH-3	45	0.000	0.000	0.000	0.00	0.00	0.35	5.27	0.20	6.58	2.27	12	0.50	0.79	0.25	RCP	0.013	2.53	90.0%	1.14	3.22	3.67
STM MH-3	STM IN-14	210	0.000	0.000	0.000	0.00	0.00	2.25	7.00	0.46	6.15	13.86	21	1.00	2.41	0.44	RCP	0.013	15.89	87.2%	1.14	6.61	7.53
STM IN-10	STM IN-11	158	0.259	0.234	0.024	0.89	0.23	0.23	5.00	0.59	6.64	1.53	10	1.00	0.55	0.21	PVC (Smooth)	0.012	2.20	69.4%	1.10	4.03	4.43
STM IN-11	STM IN-13	90	0.319	0.284	0.035	0.88	0.28	0.51	5.59	0.29	6.50	3.32	12	1.00	0.79	0.25	RCP	0.013	3.57	92.8%	1.14	4.55	5.19
SE DS	STM IN-12	123	0.328	0.328	0.000	0.95	0.31	0.31	5.00	0.39	6.64	2.07	10	1.00	0.55	0.21	PVC (Smooth)	0.012	2.60	79.7%	1.10	4.76	5.24
STM CB-12	STM IN-13	91	0.298	0.298	0.000	0.95	0.28	0.59	5.39	0.25	6.55	3.89	12	1.00	0.79	0.25	RCP	0.013	4.22	92.2%	1.14	5.38	6.13
STM IN-13	STM IN-14	131	0.162	0.100	0.062	0.70	0.11	1.22	5.88	0.38	6.43	7.83	18	0.50	1.77	0.38	RCP	0.013	8.80	88.9%	1.14	4.98	5.68
STM IN-14	STM FES-1	38	0.612	0.531	0.081	0.86	0.53	4.00	7.47	0.07	6.04	24.16	24	1.00	3.14	0.50	RCP	0.013	26.81	90.1%	1.14	8.53	9.73

GENERAL NOTES:

- \* RAINFALL INTENSITY TO BE FOR THE DESIGN OF 2-YEAR(RESIDENTIAL), 5-YEAR(COMMERCIAL), 10 YEAR(DOWNTOWN) AND 100-YEAR(CROSS-CULVERTS).
- A DRAINAGE MAP IS INCLUDED AS A SEPARATE SHEET.
- OPTIONAL ALTERNATE PIPE LISTED ON THIS SHEET MAY BE FURNISHED IN LIEU OF THE PIPE LISTED UNDER THE BID ITEM "STORM SEWER".
- UNLESS OTHERWISE SPECIFIED, A CONTINUOUS SYSTEM OF STORM SEWER SHALL BE OF THE SAME TYPE MATERIAL.
- THE QUANTITIES, DIMENSIONS AND FLOWLINES GIVEN ON THIS SHEET ARE TO BE USED IF THE FOLLOWING TYPES OF "SMOOTH PIPES" ARE FURNISHED: RCP, VCP-ES, BCCM-FP, & RCHPE.
- GUTTER SPREAD SAHLL BE IN ACCORDANCE WITH THE CITY DESIGN MANUAL.



TABLE FOR STORMWATER SEWER DESIGN INFORMATION

CITY ENGINEER  
**GARY JANZEN, P.E.**

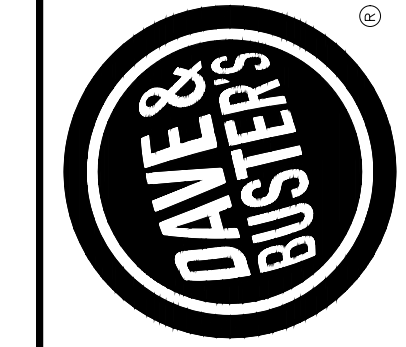
PROJECT NUMBER: OCA NUMBER: DATE: 01/2015

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

DESIGN: SHEET: DRAWN: SHEET



WICHITA, KS 67226



2644 N GREENWICH CT.

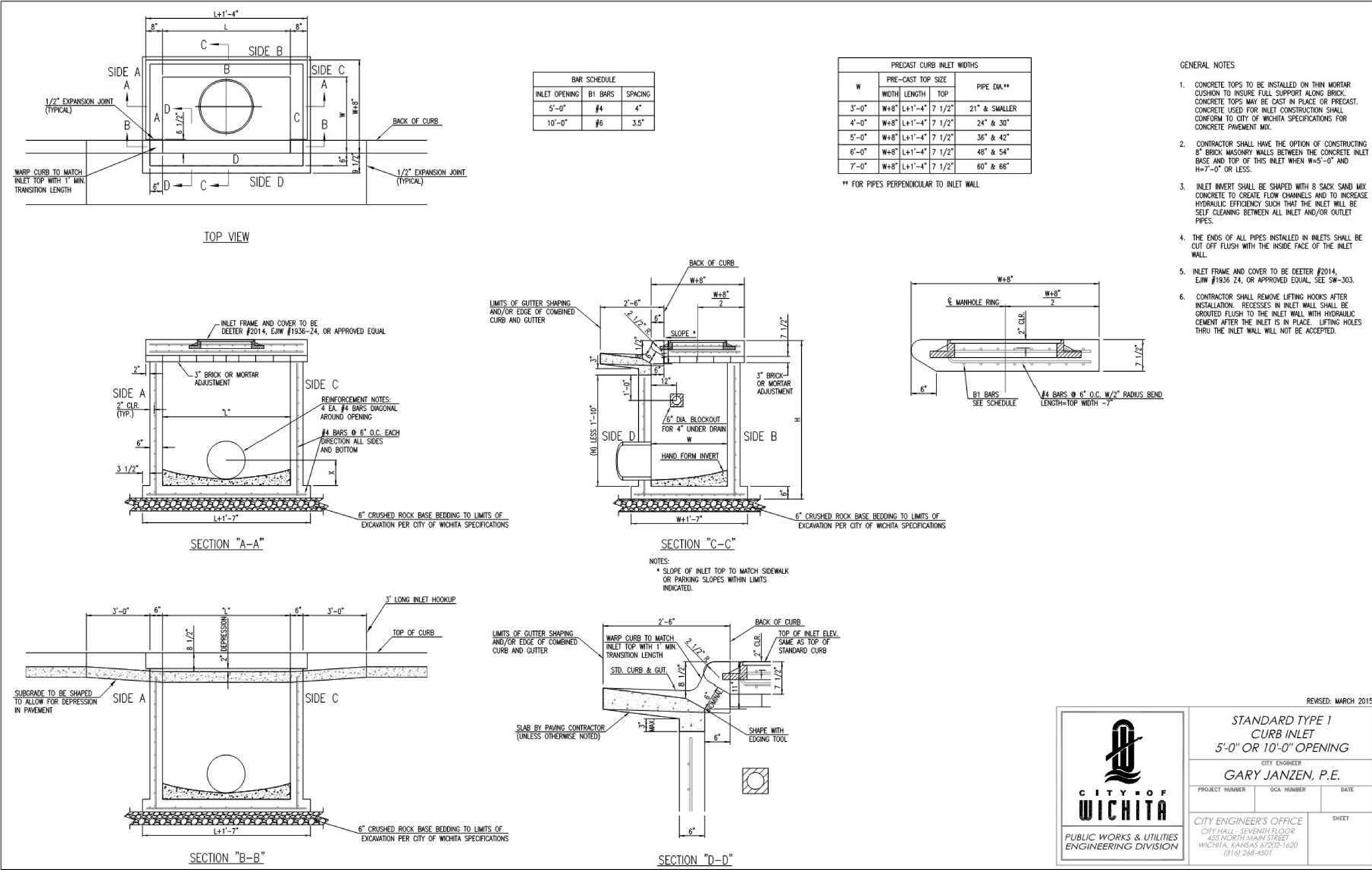
No.	Date	Remarks
08/20/18		RE-ISSUED FOR PERMITS
07/31/18		FOR CLIENT REVIEW
07/18/18		ISSUED FOR PERMITS

REVISIONS

Drawing Title  
**SITE DETAILS**

Job No. 183929  
Drawn ADH/DK  
Scale AS NOTED  
Date 07/18/18

Sheet No.  
**C5.09**



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REVISED: MARCH 2015

**STANDARD TYPE 1 CURB INLET**  
5'-0" OR 10'-0" OPENING

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

PUBLIC WORKS & UTILITIES  
ENGINEERING DIVISION

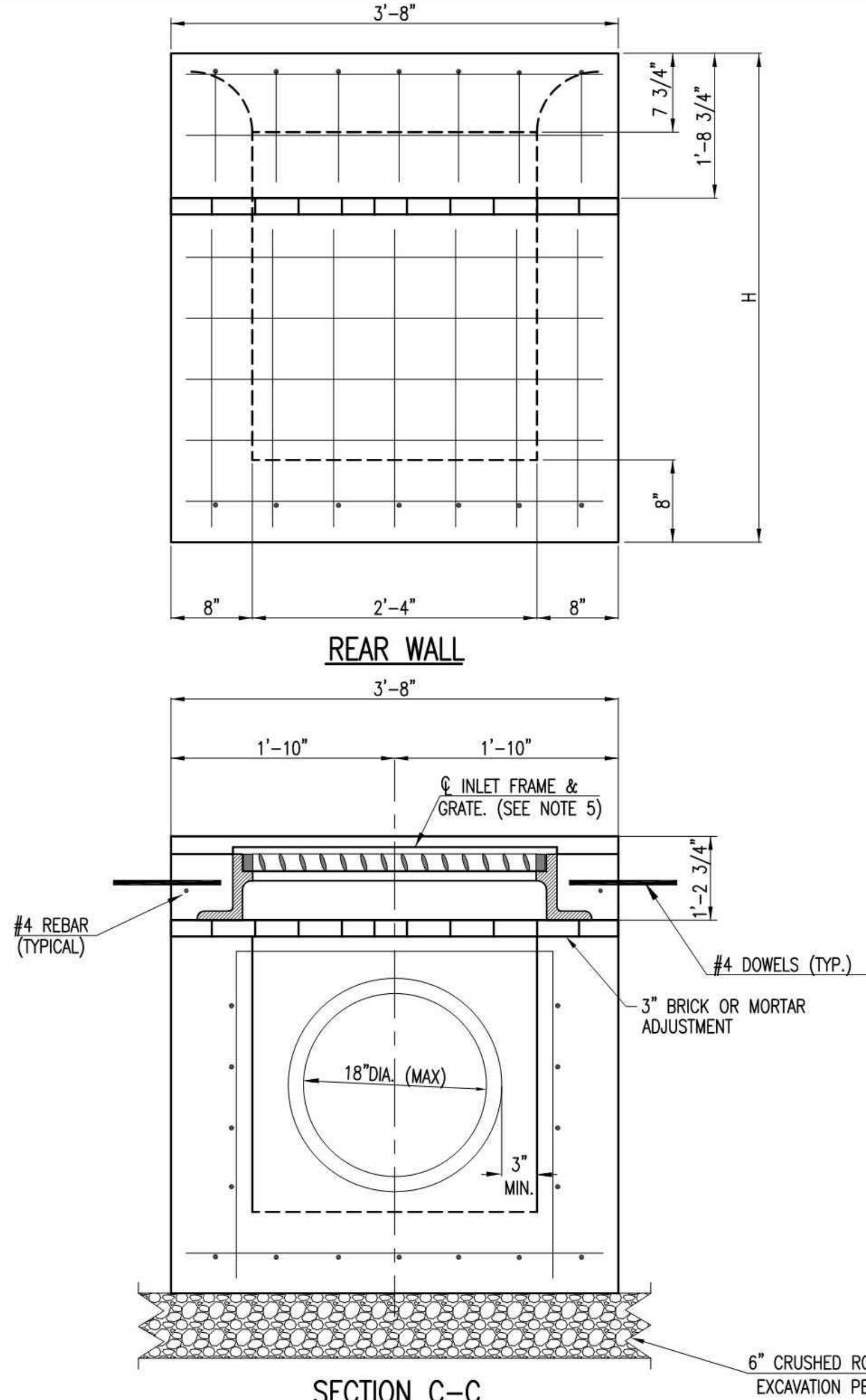
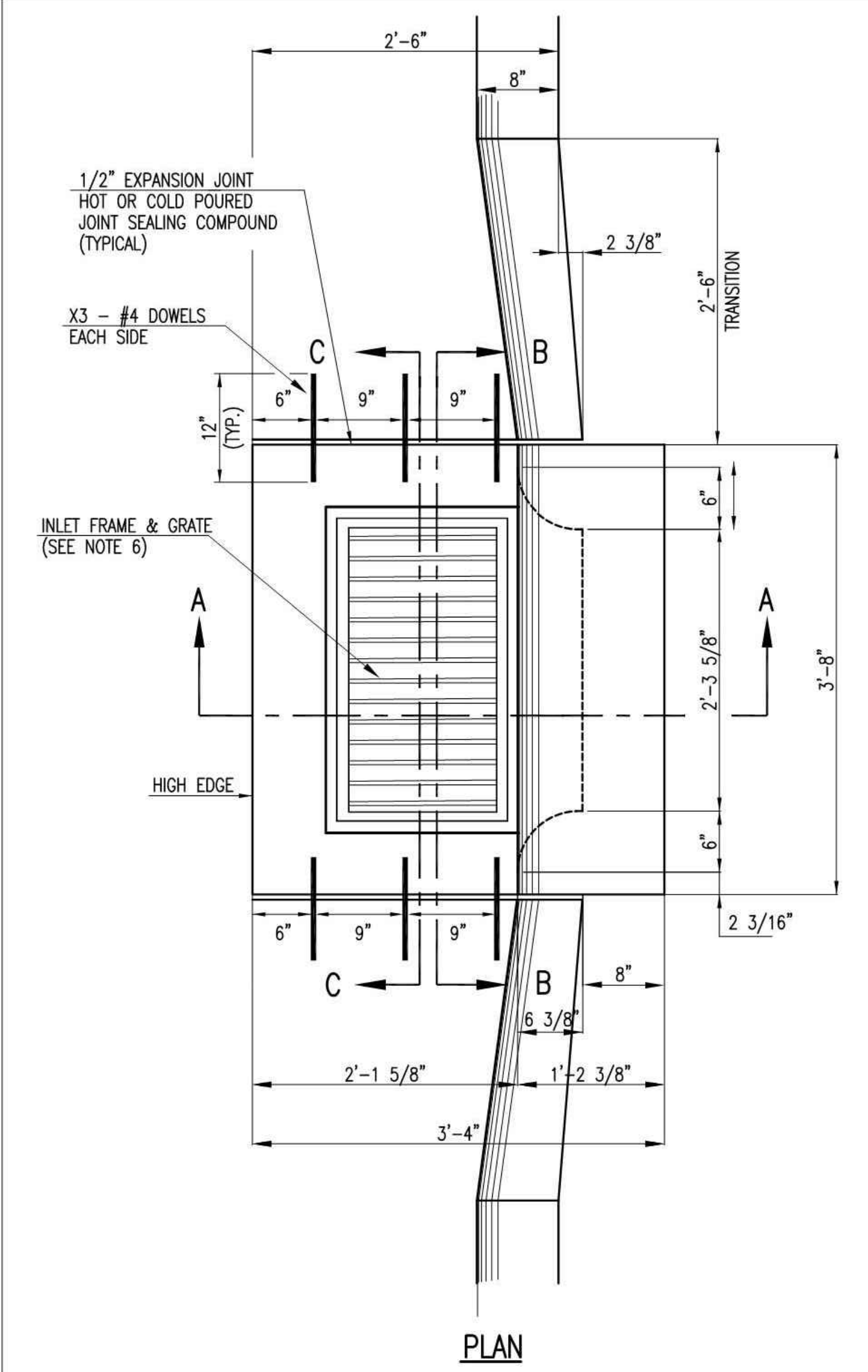
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No.	Date	Remarks
08/20/18		ISSUED FOR PERMITS
07/31/18		FOR CLIENT REVIEW
07/18/18		FOR PERMITS

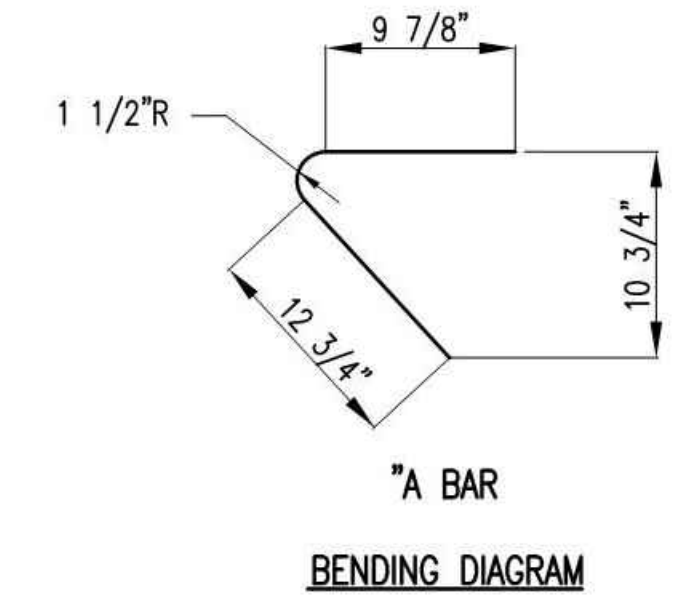
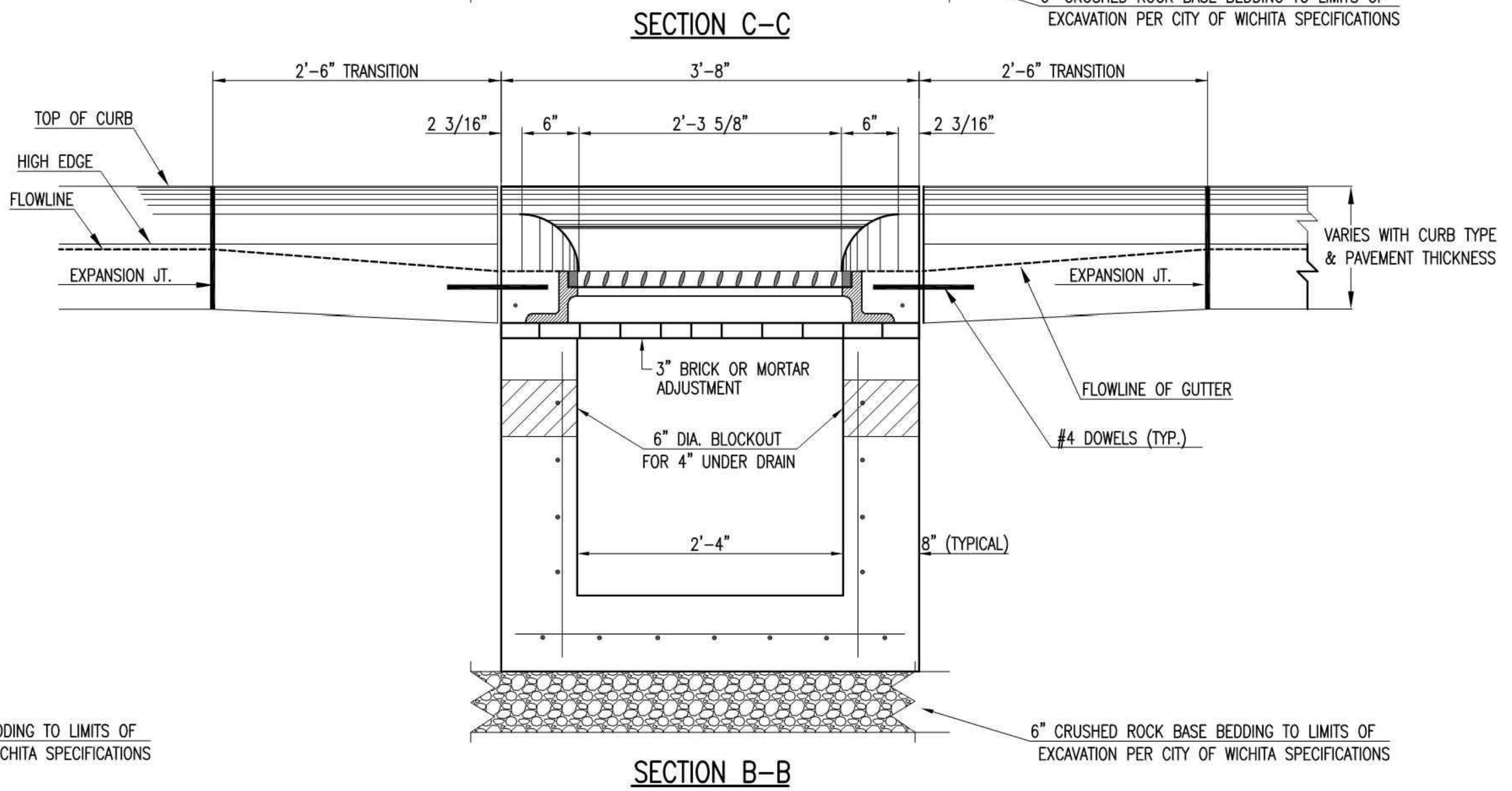
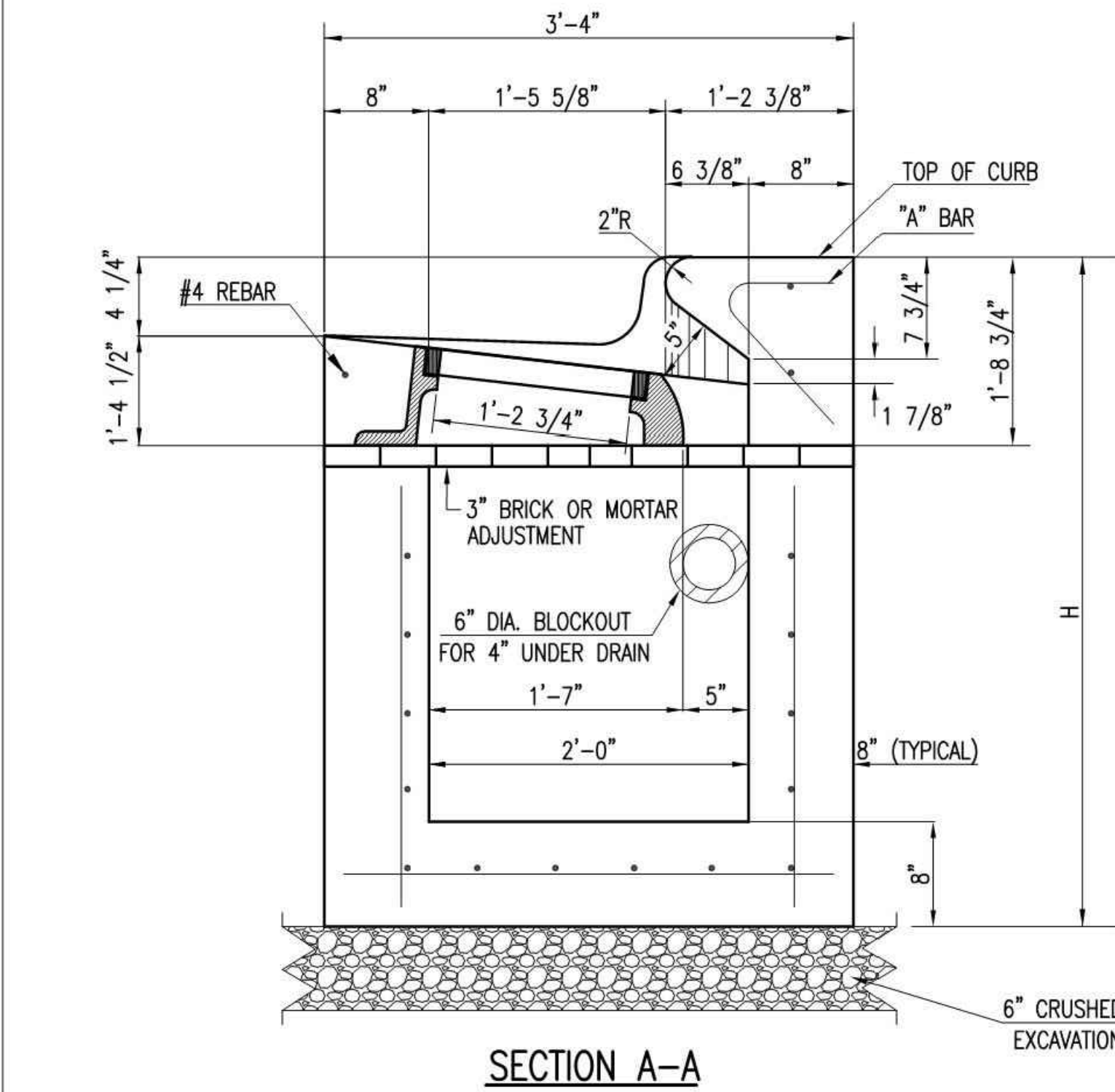
Drawing Title  
**SITE DETAILS**

Job No. 183929	Drawn ADH
Scale AS NOTED	Date 07/18/18

Sheet No.  
**C5.10**



- GENERAL NOTES**
- USE THE CONCRETE MIX SPECIFIED FOR THE CITY OF WICHITA CONCRETE PAVEMENT THROUGHOUT. ALL EXPOSED EDGES SHALL BE FINISHED WITH AN EDGING TOOL. REINFORCING BARS SHALL BE BENT AROUND PIPE.
  - INLET INVERT SHALL BE SHAPED WITH 8 SACK MIX CONCRETE TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE INLET WILL BE SELF CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.
  - ALL BARS ARE #4 WITH 6" SPACING AND SHALL HAVE A MINIMUM CLEARANCE OF 1 1/2 INCHES UNLESS OTHERWISE NOTED ON THE PLANS.
  - NO DEDUCTIONS WILL BE MADE IN PAY LENGTH OF CURB, GUTTER, OR CURB AND GUTTER THROUGH THE INLET AREA.
  - USE DEETER FOUNDRY, INC. CASTING NO. 2442/43 OR EJIW 7600Z LEFT SIDE, 7600 RIGHT SIDE IN INLET FRAME AND GRATE WITH STYLE H GRATE. INLET FRAME TO BE PROOF LOAD TESTED TO 40,000 LBS. ON UNSUPPORTED SIDE.
  - REINFORCING BARS SHALL BE CUT OR BENT AROUND PIPES. NO DEDUCTION IN CONCRETE QUANTITIES SHALL BE MADE FOR PIPE OPENINGS.
  - THE VANES OF THE GRATE SHALL BE ORIENTED WITH RESPECT TO THE FLOW ARROWS SHOWN ON THE PLANS.
  - CONTRACTOR SHALL REMOVE LIFTING HOOKS AFTER INSTALLATION. RECESSES IN INLET WALL SHALL BE GROUTED FLUSH TO THE INLET WALL WITH HYDRAULIC CEMENT AFTER THE INLET IS IN PLACE. LIFTING HOLES THRU THE INLET WALL WILL NOT BE ACCEPTED.



REVISED: MARCH 2015

**STANDARD SINGLE  
TYPE II CURB INLET**

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		

No.	Date	Remarks
08/20/18	RE-ISSUED FOR REVISION	
07/31/18	REVISED FOR REVISION	
07/18/18	ISSUED FOR REVISION	

Drawing Title  
**SITE  
DETAILS**

Job No.  
183929

Drawn  
ADH

Scale  
AS NOTED

Date  
07/18/18

Sheet No.

**C5.11**