GENERAL NOTES

- 1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ACQUIRE ALL CITY AND STATE PERMITS, INCLUDING PERMITS REQUIRED BY OTHER GOVERNING BODIES, REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT.
- 2. A PRECONSTRUCTION CONFERENCE SHALL BE SCHEDULED WITH THE CITY ENGINEER. CONSTRUCTION OF THE IMPROVEMENTS SHOWN OR IMPLIED BY THIS SET OF DRAWINGS SHALL NOT BE INITIATED OR ANY PART THEREOF UNDERTAKEN UNTIL AGREED TO BY THE CITY.
- 3. THE WATER MAIN CONTRACTOR SHALL PROVIDE EROSION AND SILT PROTECTION AS REQUIRED FOR HIS SPECIFIC CONSTRUCTION ACTIVITIES DURING THIS CONSTRUCTION AND SHALL BE RESPONSIBLE FOR KEEPING EXISTING STREET AND ADJACENT LAND FEATURES AND PROPERTY FREE OF MUD AND SILT. IF INTERRUPTION OF THE OVERALL SITE EROSION CONTROL FEATURES IS REQUIRED BY THIS WORK, THE SEWER MAIN CONTRACTOR SHALL RELOCATE OR ADD THE PROPER EROSION CONTROL FEATURES TO PROTECT THIS SITE DURING THIS WORK. SEE THE ASSOCIATED POLLUTION PREVENTION PLAN FOR CONSTRUCTION ACTIVITIES AND FOR MINIMUM EROSION CONTROL MEASURES REQUIRED BY THESE PLANS. EROSION CONTROLS SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. ONCE CONSTRUCTION BEGINS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL FROSION CONTROL MEASURES AND SHALL PROMPTLY REPAIR RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL MEASURES AND SHALL PROMPTLY REPAIR ANY AREAS REQUIRING ATTENTION UNTIL SUBSTANTIAL COMPLETION OF THE PROJECT.
- 4. PRIOR TO THE LAYING OF PIPE, THE CONTRACTOR SHALL EXPOSE ALL UTILITIES AT PIPE CROSSINGS AND VERIFY ELEVATIONS TO DETERMINE ANY CONFLICTS THAT MAY EXIST. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER OF ANY SUCH CONFLICTS.
- 5. THE CONTRACTOR MUST SUPPORT ALL UTILITIES DURING THIS CONSTRUCTION TO THE SATISFACTION OF THE RESPECTIVE UTILITY COMPANY. ALL SHORING AND TEMPORARY SUPPORTS ARE TO BE INCLUDED IN THE CONTRACT PRICE.
- 6. THE PIPE SHALL BE STORED AT THE SITE TO AVOID ANY DAMAGE TO THE PIPE, PIPE COATINGS, AND JOINT SYSTEM. WHEN THE PIPE IS LAID OUT ALONG THE TRENCH, THE SAME PRECAUTIONS SHALL BE TAKEN TO PREVENT DAMAGE TO THE PIPE OR JOINT SYSTEMS.
- 7. THE INTERIOR OF ALL PIPE SHALL BE THOROUGHLY CLEANED OF ALL FOREIGN MATTER BEFORE BEING LOWERED INTO THE TRENCH, AND SHALL BE KEPT CLEAN DURING THE LAYING OPERATION BY MEANS OF PLUGS, PIGS, SWABS OR OTHER APPROVED METHODS.
- 8. ANY PIPE THAT HAS ITS GRADE OR JOINTS DISTURBED AFTER LAYING, SHALL BE TAKEN UP AND RE-LAID BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. TRENCHES SHALL BE KEPT FREE FROM WATER UNTIL THE PIPE SECTIONS ARE JOINTED, AND PIPE SHALL NOT BE LAID WHEN THE CONDITION OF THE TRENCH OR THE WEATHER IS UNSUITABLE FOR SUCH WORK. AT TIMES WHEN WORK IS NOT IN PROGRESS, OPEN ENDS OF PIPE AND FITTINGS SHALL BE SECURELY AND SATISFACTORILY CLOSED SO THAT NO TRENCH WATER, EARTH, OR OTHER SUBSTANCE WILL ENTER THE PIPE.
- 9. A MINIMUM OF ONE (1) COMPACTION TEST SHALL BE PERFORMED BY A QUALIFIED TESTING LABORATORY AT INTERVALS NOT EXCEEDING 200-FEET OF TRENCH FOR THE FIRST AND EVERY OTHER 6-INCH LIFT OF COMPACTED TRENCH BACKFILL.
- 10. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS ON MATERIAL AND STRUCTURES USED FOR APPROVAL BY THE ENGINEER AND FINAL APPROVAL BY THE CITY OF DE SOTO.

GENERAL NOTES - CITY OF DE SOTO

- 1. ALL PIPE SHALL BE (C-900 DR 18), HDPE (DR 17), DIP (CLASS 50), OR 2" HDPE (CTS) UNLESS OTHERWISE NOTED.
- 2. ALL VALVES TO BE RESILIENT SEATED GATE VALVES AND SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF AWWA C509 AND C515. RESILIENT-SEAT GATE VALVES SHALL BE AMERICAN FLOW CONTROL, KENNEDY, CLOW, MUELLER OR U.S. PIPE. ALL VALVES SHALL BE LEFT TURN OPEN, AND HAVE A RISER CONSISTING OF 6"SCHEDULE 40 PIPE AND A CLAY AND BAILEY 2194 VALVE COVER. VALVES INSTALLED IN ROADWAY SHALL HAVE A CLAY AND BAILY 2193 VALVE COVER.
- 3. ALL VALVES ADJACENT TO TEES, CROSSES, OR ELBOWS SHALL BE ANCHORED TO THE FITTING.
- 4. ALL FIRE HYDRANTS ARE REQUIRED TO HAVE 1-4 1/2" AND 2-2 1/2" NOZZLES, AND SHALL BE "PACER" MODEL MANUFACTURED BY WATEROUS MUELLER, KENNEDY, OR U.S. PIPE.. FIRE HYDRANTS SHALL CONFORM TO AWWA C502. ALL HYDRANTS SHALL BE FURNISHED WITH 6" AUXILIARY GATE VALVE ANCHORED TO HYDRANT, AND WHERE RELEVANT, ANCHORED TO THE TEE.
- 5. ALL FIRE HYDRANTS SHALL BE PAINTED ABOVE THE GROUND LINE WITH RED ENAMELED PAINT.
- 6. ALL UTILITIES ARE LOCATED FROM BEST AVAILABLE INFORMATION. CONTRACTOR SHALL VERIFY LOCATIONS BEFORE CONSTRUCTION.
- 7. A 5 FOOT STEEL FENCE POST SHALL BE SET 36" ABOVE GROUND BY ALL VALVES AND FLUSHING DEVICES.
- 8. ALL LINES SHALL HAVE 42" MINIMUM COVER OR SHALL BE LAID WITH TOP OF WATER LINE 42" BELOW TOP OF CURB, WHICHEVER IS LOWER. UNLESS SPECIFICALLY NOTED OTHERWISE ON PLAN SHEETS. 9. TRACER WIRE SHALL BE PROVIDED AND INSTALLED WITH ALL WATERLINE INSTALLATIONS #12 THHN
- WIRE SHALL BE TAPED TO THE TOP OF THE PIPE AND EXTENDED UP THROUGH VALVE BOXES". 10. ALL DEAD LINES TO BE ONE JOINT OF PIPE WITH 1/2 C.Y. OR MORE OF CONCRETE IN THE CENTER OF THE JOINT WITH A STRADDLE BLOCK INTO UNDISTURBED SOIL.
- 11. BID FOR FIRE HYDRANT SHALL INCLUDE 6" VALVE AND BOX.
- 12. THE CONTRACTOR SHALL DISINFECT, FLUSH AND TEST LINES AS REQUIRED BY THE CITY OF DE SOTO SPECIFICATIONS OR KDHE SPECIFICATIONS LATEST EDITION WHICHEVER IS MORE STRINGENT.
- 13. WHEREVER WATER AND SEWER LINES CROSS WITH CLEARANCE OF LESS THAN 2 FEET, THE SEWER LINE SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE FOR A DISTANCE OF AT LEAST 10 FEET IN EACH DIRECTION OF CROSSING. TESTING OF THE REPLACED SEWER LINE SHALL FOLLOW KDHE STANDARDS. 14. WHERE FIRE HYDRANTS ARE NOT LOCATED AT THE END OF LINES, THE CONTRACTOR SHALL FURNISH
- A FLUSHING DEVICE.
- 15. ALL FIRE HYDRANTS ARE TO BE SET WITH THE BASE 1" ABOVE THE TOP OF CURB.
- 16. ALL TREES SHALL BE SPARED UNLESS MARKED.
- 17. WHERE VERTICAL BENDS ARE REQUIRED, ALL BENDS SHALL BE RESTRAINED WITH RESTRAINED JOINT PIPE AND FITTINGS.
- 18. ALL TAPPING VALVES SHALL BE BLOCKED SAME AS EQUAL SIZED TEE.
- 19. THE CONTRACTOR IS REQUIRED TO REMOVE AND REPLACE FENCE TO THE SATISFACTION OF THE OWNER.
- 20. DEVELOPMENT PLANS ARE APPROVED INITIALLY FOR ONE YEAR AFTER WHICH THEY AUTOMATICALLY BECOME VOID AND MUST BE UPDATED AND RE-APPROVED BY THE CITY ENGINEER BEFORE ANY CONSTRUCTION WILL BE PERMITTED.
- 21. THE CITY OF DE SOTO PLAN REVIEW IS ONLY FOR GENERAL CONFORMANCE WITH THE CITY OF DE SOTO DESIGN CRITERIA AND THE CITY CODE. THE CITY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, OR DIMENSIONS AND ELEVATIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE. THE CITY OF DE SOTO THROUGH APPROVAL OF THE DOCUMENT ASSUMES NO RESPONSIBILITY, OTHER THAN THAT AS STATED ABOVE, FOR THE COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.
- 22. THE CONTRACTOR SHALL HAVE ONE COPY OF THE PLANS APPROVED BY THE CITY OF DE SOTO WITH STATE APPROVAL STAMP ON COVER SHEET AND ONE COPY OF THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES.
- 23. THE CONTRACTOR SHALL NOT BE ALLOWED TO WORK ON SUNDAYS, HOLIDAYS OR SATURDAY WORK SHALL BE APPROVED BY THE CITY ENGINEER.
- 24. CONSTRUCTION OF THE IMPROVEMENTS SHOWN OR IMPLIED BY THIS SET OF DRAWINGS SHALL NOT BE INITIATED OF ANY PART THEREOF AND ALL REQUIRED AND PROPERLY EXECUTED BONDS AND CONTRACT AGREEMENTS ARE RECIEVED AND APPROVED BY THE CITY ENGINEER.
- 25. THE CONTRACTOR SHALL SUBMIT A PERFORMANCE & 2-YEAR MAINTANENCE BOND TO THE CITY OF DE SOTO PRIOR TO THE START OF CONSTRUCTION.
- 26. THE CONTRACTOR SHALL SUBMIT PROOF OF CONTRACTOR'S LIABILITY INSURANCE PRIOR TO CONSTRUCTION. THIS INSURANCE SHALL LIST THE CITY OF DE SOTO AS AN ADDITIONAL INSURED.
- 27. CONSTRUCTION INSPECTION WILL BE PROVIDED BY THE CITY OF DE SOTO. A FEE IN THE AMOUNT OF 3% OF THE BONDED IMPROVEMENT COSTS WILL BE ASSESSED TO THE OWNER.

<u>BM790</u>: Alum Disk Located at the intersection of Ottawa & Lexington, on the Northwest corner of the intersection, on 1st curb inlet on West side of Ottawa.

QUANTITIES

Anderson Estates - Watermain						
No.	Description		<u>Quantities</u> Plan			
4.00	8" Diameter PVC C-900 Pressure Class 235 (DR 18)	LF	<mark>51</mark> 8			
4.01	Fire Hydrant	EA	1			
4.02	8" Gate Valve	EA	3			

ANDERSON ESTATES WATERMAIN EXTENSION PLANS 33475 W 85TH ST **DE SOTO, KS 66018**

Waterline Permit #202400117



OVERALL PLAN

GRAPHIC SCALE 100 50

(SCALE IN FEET)

INDEX OF SHEETS

C500 C501 *C502* C503

CURRENT KANSAS CITY METROPOLITAN CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION SECTION 2900 WATERLINES.

SHOULD THERE BE A CONFLICT BETWEEN THE ABOVE REQUIREMENTS, THE MORE STRINGENT OF THE REQUIREMENTS SHALL GOVERN.

UTILITY CONTACTS

<u>ELECTRIC</u> EVERGY CONTACT MATT ROECKER (913)667–5116

<u>NATURAL GAS</u> ATMOS ENERGY P.O BOX 650205 DALLAS, TEXAS 75265-0205 (888) 286-6700

SANITARY SEWER CITY OF DE SOTO 32905 W. 84TH STREET DE SOTO, KS 66018 (913) 238–0434

CIVIL ENGINEER

MILBURN CIVIL ENGINEERING, LLC 33135 W. 83RD ST DE SOTO, KS 66018 PLANS PREPARED AND SUBMITTED BY:

BENCHMARK

Elevation = 819.88

SURVEY CONTROL POINTS

Survey Control Points						
Point #	Northing	Easting	Elevation	Description		
2	247522.47	2173039.71	819.88	BM790		
40	248003.64	2172649.83	859.30	Square Cut in Top of Curb		
50	248002.59	2172696.95	858.06	Plus Cut in Sidewalk		
51	247992.86	2172502.82	855.55	Plus Cut in Top of Curb		

JUSTIN MILBURN, KANSAS PE #18836 DA TE APPROVED BY: CITY OF DE SOTO, KANSAS

JOE JOHNSON

COVER SHEET GENERAL LAYOUT PLAN AND PROFILE - LINE A DETAILS

PROJECT STANDARDS

CURRENT KDHE WATER MAIN SPECIFICATIONS THE GOVERNING SPECIFICATIONS FOR THIS PROJECT SHALL BE THOSE REQUIREMENTS CURRENTLY ON RECORD WITH KDHE FOR THE CITY OF DE SOTO, KANSAS DATED OCTOBER 19, 1992.

DE SOTO, KS 66018 (913) 238–0434 <u>STORMWATER</u> CITY OF DE SOTO 32905 W. 84TH STREET DE SOTO, KS 66018 (913) 238–0434

32905 W. 84TH STREET

CITY OF DE SOTO

<u>CABLE/COMMUNICATIONS</u> SPECTRUM CABLE 6921 W. 119TH STREET (855)707-7328

CITY ENGINEER, DE SOTO, KS APPROVED FROM ONE YEAR FROM THIS DATE Know what's below. Call before you dig.



Milburn Civil Engineering, LLC

MILBURN CIVIL ENGINEERING, LLC 33135 W 83RD ST DE SOTO, KS 66018 913-583-0367

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4/12/2024 DESIGNED BY CHECKED BY

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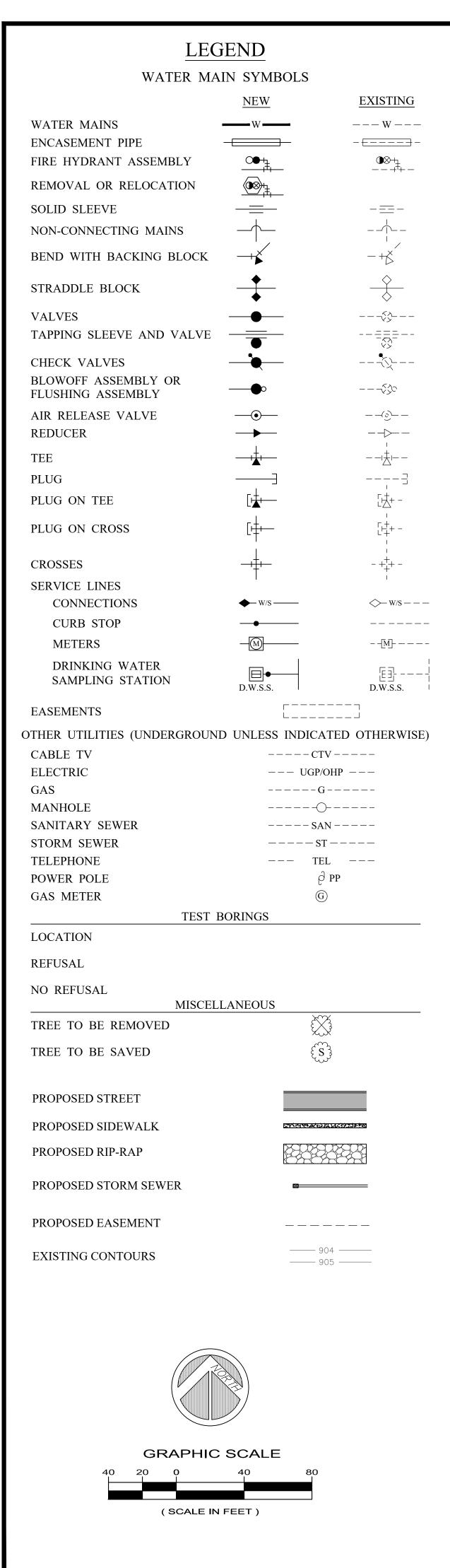


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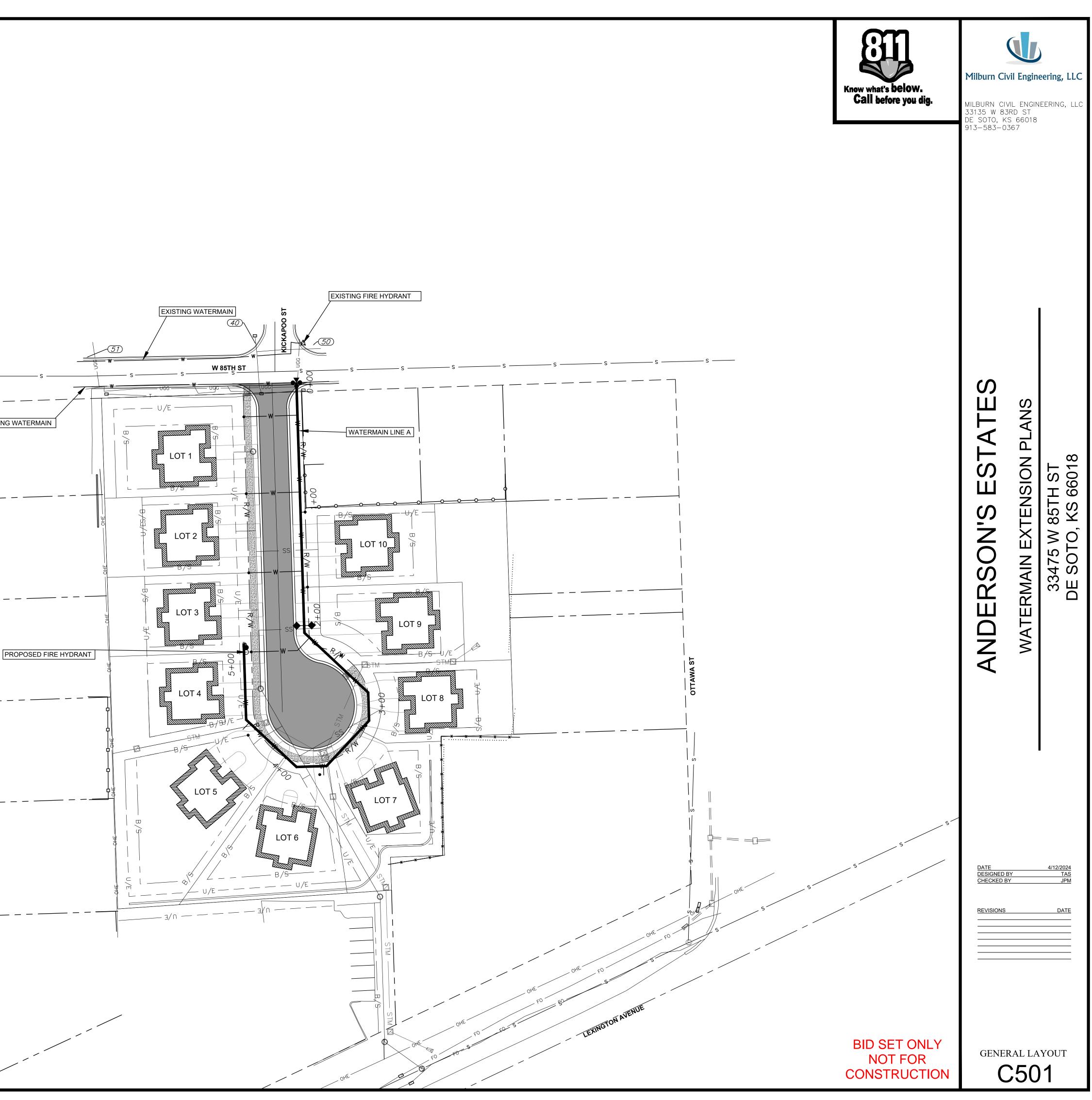
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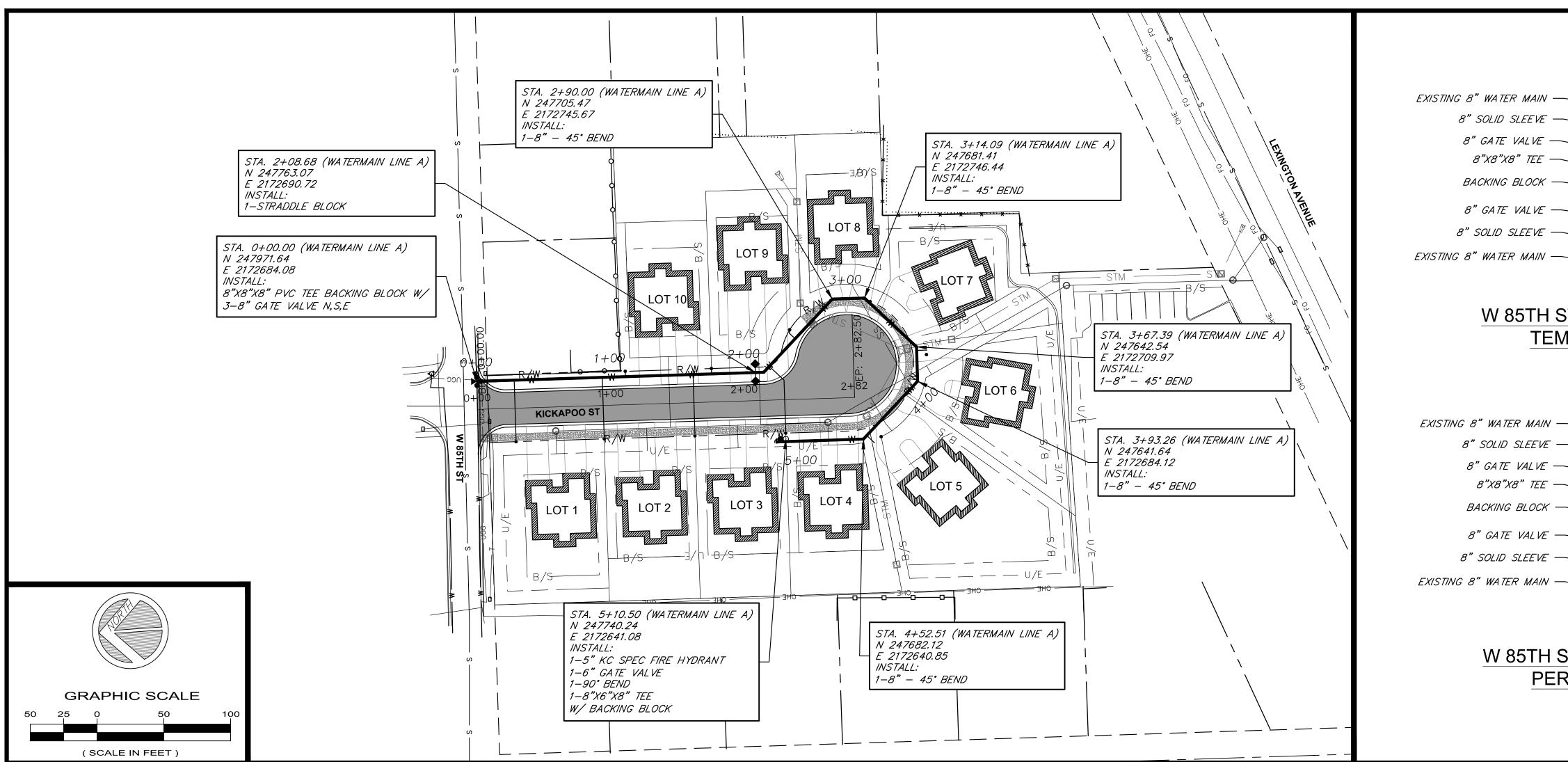
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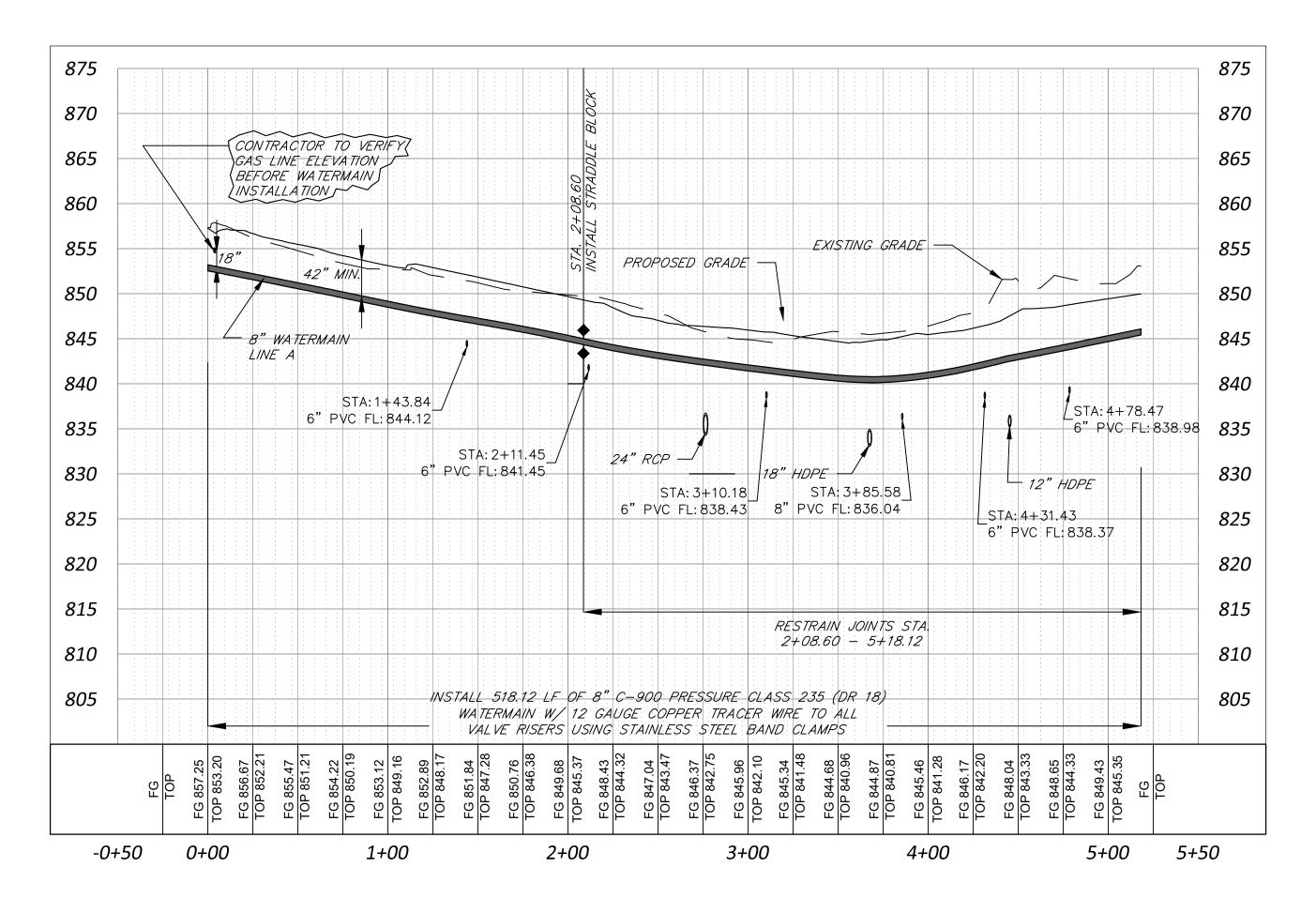


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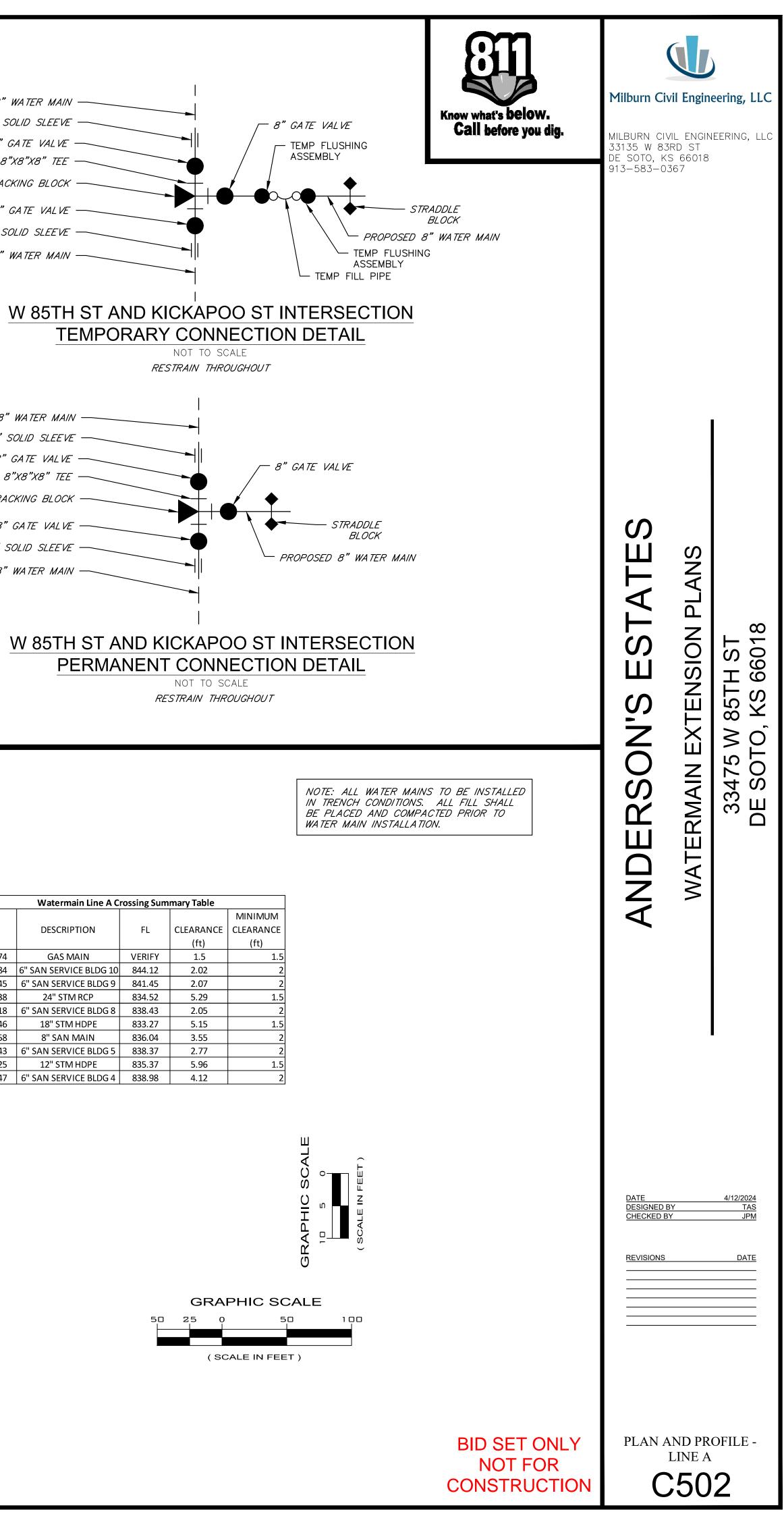


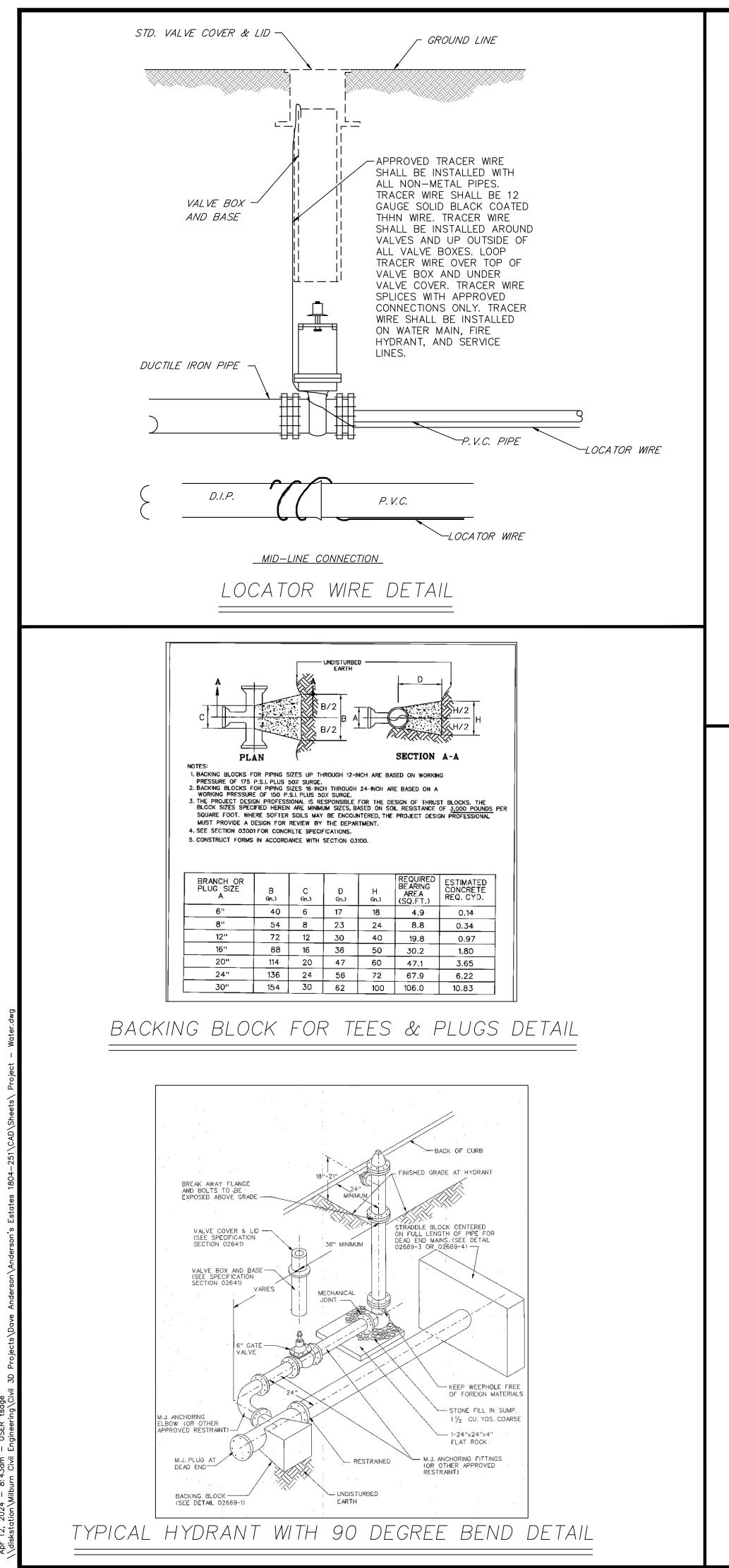


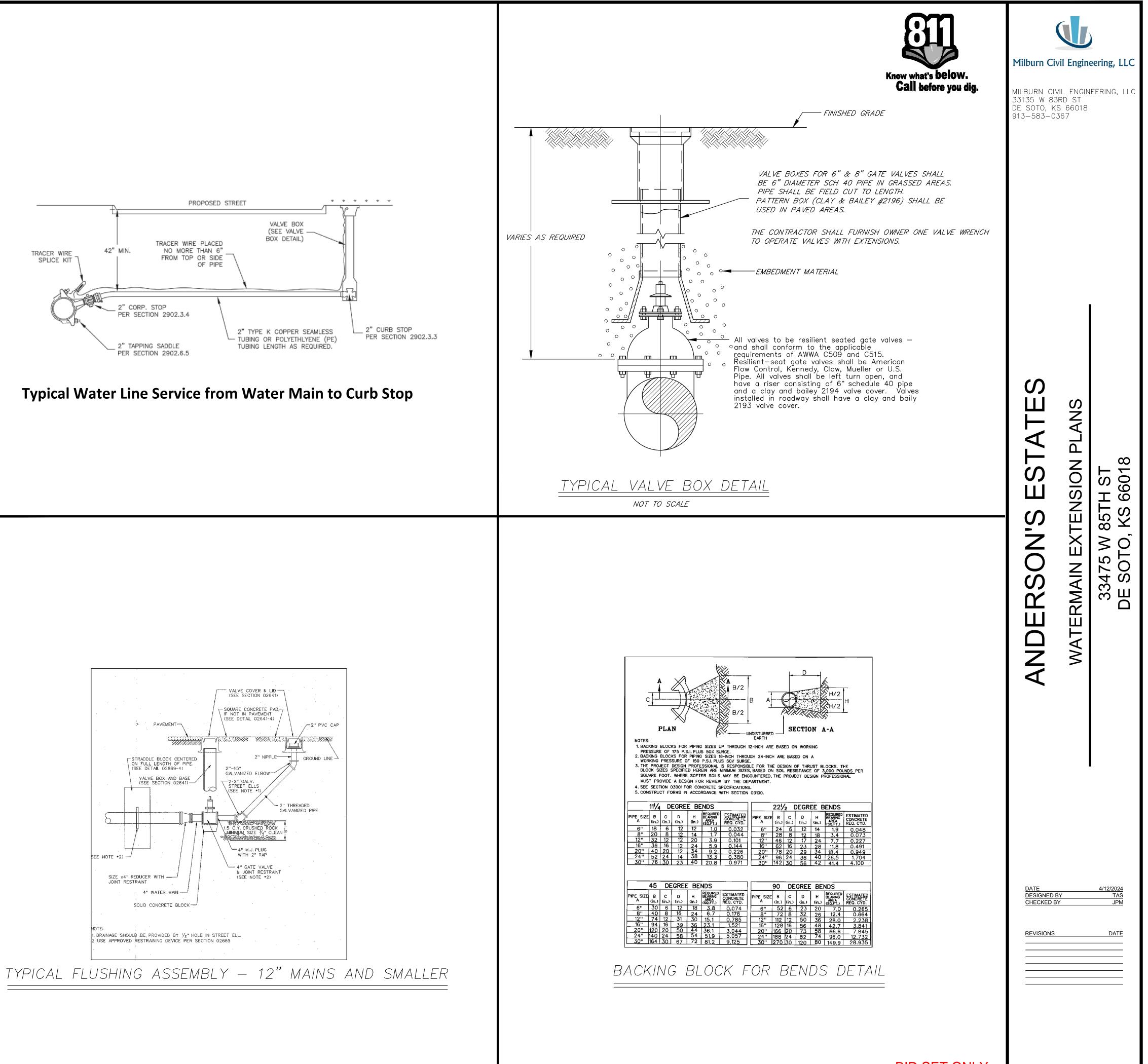


WATERMAIN LINE A PROFILE

	Watermain Line
STA.	DESCRIPTION
0+03.74	GAS MAIN
1+43.84	6" SAN SERVICE BLDG
2+11.45	6" SAN SERVICE BLDO
2+76.38	24" STM RCP
3+10.18	6" SAN SERVICE BLDO
3+67.46	18" STM HDPE
3+85.58	8" SAN MAIN
4+31.43	6" SAN SERVICE BLDO
4+45.25	12" STM HDPE
4+78.47	6" SAN SERVICE BLDO







BID SET ONLY NOT FOR CONSTRUCTION

DETAILS C503