

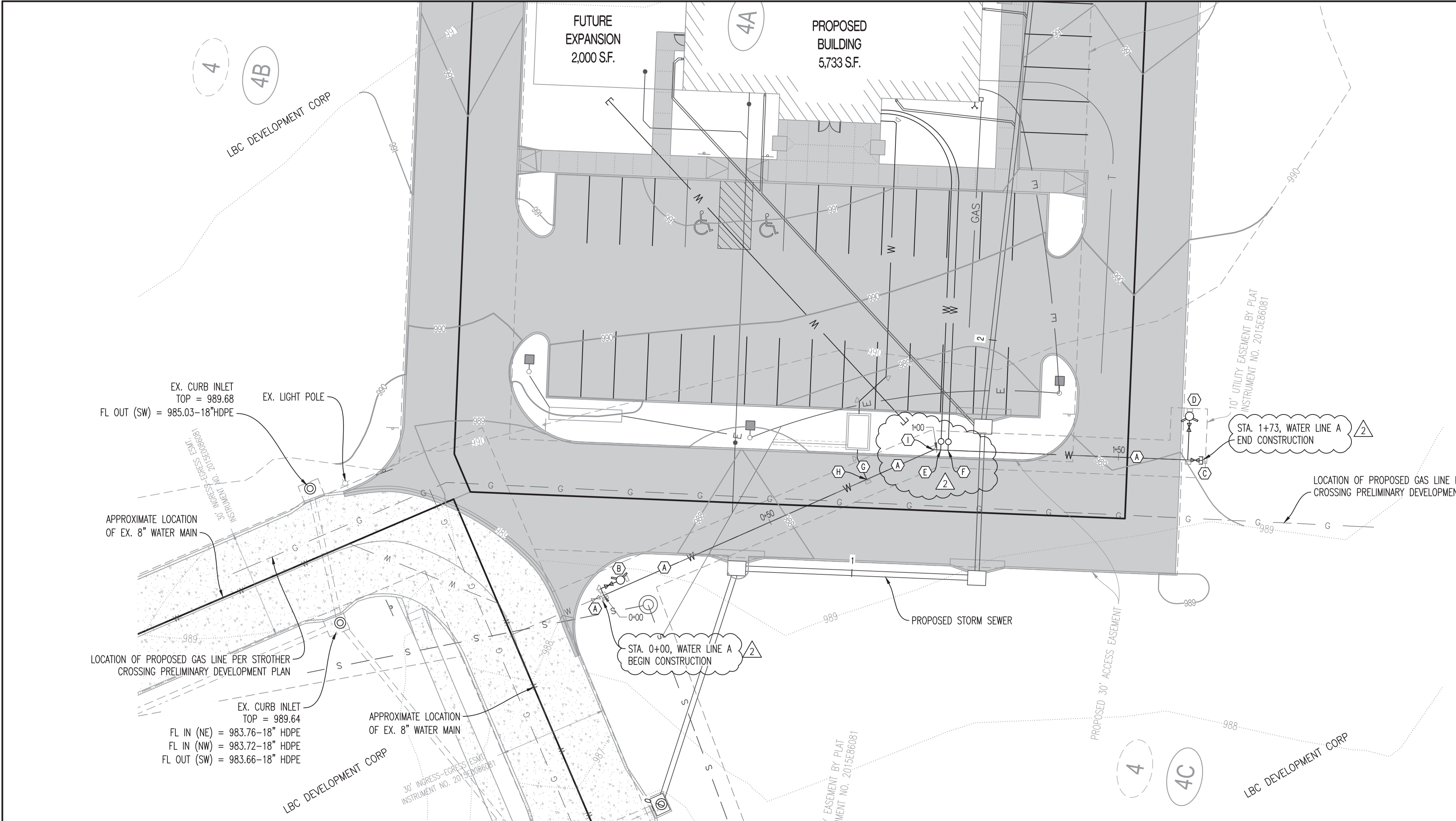
LOCATION MAP



TOTAL DISTURBED AREA ON SITE = 1.80 AC.

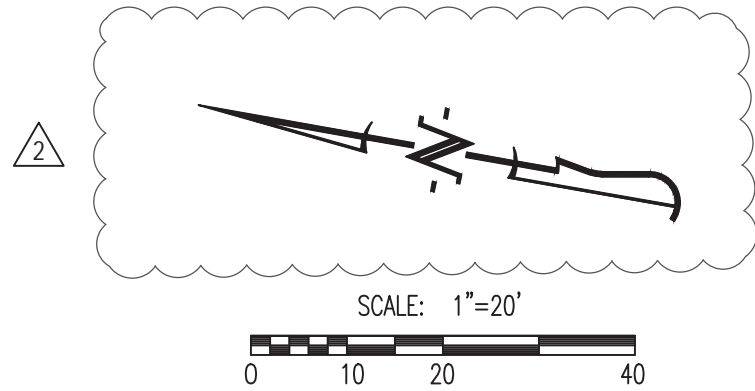
KCP&L
130 SE HAMBLÉN ROAD
LEE'S SUMMIT, MO
816-347-4320

Crockett Engineering Consultants, LLC
Missouri Certificate of Authority
#2000151301



- LEGEND OF LABELS**
- (A) REMOVE EXISTING FIRE HYDRANT AND EXTEND 6" SDR35 WATER MAIN 173 L.F. PER CITY OF LEE'S SUMMIT WATER DEPARTMENT SPECIFICATIONS. REFER TO PROFILE & DETAILS SHEET CE2. CONTRACTOR TO COORDINATE WITH CITY OF LEE'S SUMMIT WATER UTILITIES DEPARTMENT.
 - (B) RELOCATED 6" FIRE HYDRANT ASSEMBLY (INCLUDES THRUST BLOCKING, HYDRANT, VALVE WITH VALVE BOX TO SURFACE AND M.J. JOINTS). INSTALL FIRE HYDRANT ASSEMBLY PER DETAIL SHEET CE2.
 - (C) INSTALL 6" VALVE WITH VALVE BOX TO SURFACE. PROVIDE 6" PLUG AFTER VALVE W/ CONCRETE THRUST BLOCK.
 - (D) INSTALL 6" FIRE HYDRANT ASSEMBLY (INCLUDES APPROXIMATELY 12 L.F. OF 6" SDR35, FIRE HYDRANT, 6"x6"x6" TEE, 6" GATE VALVE WITH VALVE BOX TO SURFACE AND THRUST BLOCKING). REFER TO DETAIL SHEET CE2.
 - (E) PROPOSED DOMESTIC WATERLINE SERVICE CONNECTION FOR PROPOSED BUILDING. REFER TO "KANSAS CITY SURGICAL & DENTAL OFFICE" PLANS BY CROCKETT FOR METER SIZE AND EXTENSION TO BUILDING.
 - (F) PROPOSED IRRIGATION LINE CONNECTION. REFER TO "KANSAS CITY SURGICAL & DENTAL OFFICE" PLANS BY CROCKETT FOR METER SIZE AND EXTENSION TO BUILDING.
 - (G) PROPOSED FIRE LINE CONNECTION WITH DOUBLE CHECK DETECTOR VAULT. REFER TO "KANSAS CITY SURGICAL & DENTAL OFFICE" PLANS BY CROCKETT FOR DETAILS AND EXTENSION TO BUILDING.
 - (H) INSTALL 6"x6"x6" TEE WITH THRUST BLOCKING.
 - (I) INSTALL 6" - 22.5' HORIZONTAL BEND WITH THRUST BLOCKING.

- GENERAL NOTES:**
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ACQUIRE EXISTING UTILITY LOCATIONS PRIOR TO CONSTRUCTION. IT IS ALSO THE RESPONSIBILITY OF THE CONTRACTOR TO RESTORE ANY DAMAGED OR BROKEN UTILITY TO ORIGINAL OR BETTER CONDITION. ALL UTILITIES SHOWN ON THESE PLANS ARE BASED ON UTILITY LOCATES PROVIDED. CONTRACTOR TO BE AWARE THAT EXISTING UTILITIES NOT SHOWN ON THESE PLANS MAY EXIST. CONTRACTOR TO CONTACT ENGINEER IF ANY CONFLICT WITH EXISTING UTILITIES ARISE DURING CONSTRUCTION.
 - ALL WATERLINE CONSTRUCTION (TRACER WIRE, TAPPING SLEEVE, VALVES, JOINTS, BENDS, THRUST BLOCKING, PIPE BEDDING, FIRE HYDRANTS, ECT.) SHALL CONFORM TO THE CITY OF LEE'S SUMMIT SPECIFICATIONS. ALL FITTING (TEES, BENDS, ECT.) SHALL BE DUCTILE IRON WITH EPOXY-COATING AS PER CITY SPECIFICATIONS. CONTRACTOR TO REFER TO SECTION 3900 - WATER MAINS, CITY OF LEE'S SUMMIT WATER MAIN SPECIFICATIONS.
 - EXACT DEPTH OF EXISTING WATER MAIN IS UNKNOWN. ADDITIONAL VERTICAL BENDS MAY BE REQUIRED TO AVOID CONFLICTS WITH OTHER UTILITIES AND SHALL BE MADE AT 45° ANGLES.
 - ALL PROPOSED FIRE HYDRANTS SHALL HAVE SHUT OFF VALVE.



REVISIONS:

NO.	DATE
ORIGINAL	03/08/2019
1	03/04/2019
2	03/17/2019

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

TIMOTHY D. CROCKETT
MO LICENSE - 2004000775

PREPARED BY:

CROCKETT
ENGINEERING CONSULTANTS
1000 W. High Blvd., Ste. 101
Columbia, MO 65204
(314) 445-0292
www.crockettengineering.com
Crockett Engineering Consultants, LLC
Missouri License #200081301

OWNER:

KANSAS CITY SURGICAL AND DENTAL LLC
CROCKETT LOHMEYER DENT
(816) 886-8242

PUBLIC WATER MAIN EXTENSION
KANSAS CITY SURGICAL & DENTAL OFFICE

SECTION 20, TOWNSHIP 48 NORTH, RANGE 31 WEST
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

DRAWING INCLUDES:

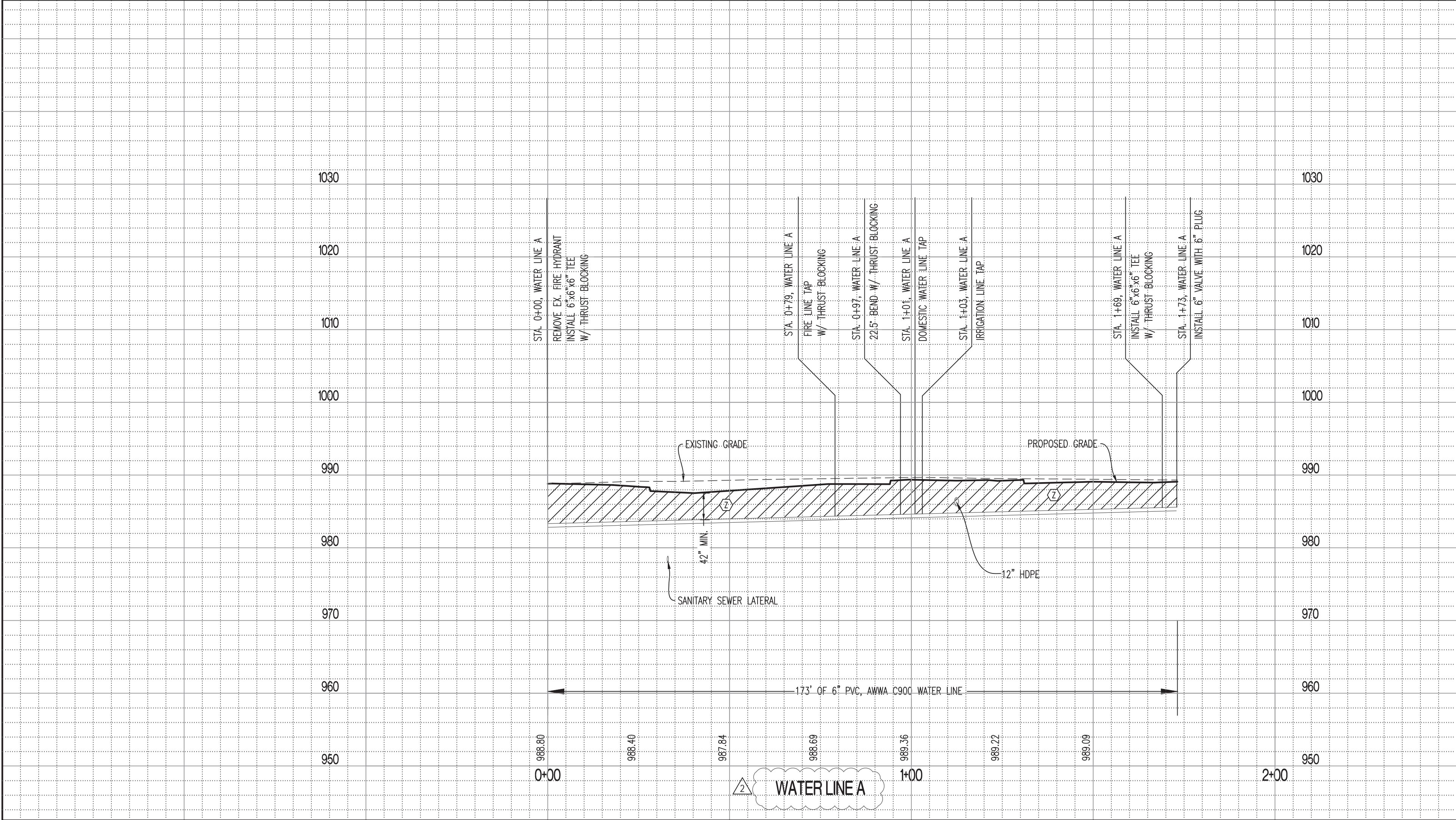
SITE / UTILITY PLAN & WATER LINE A PROFILE

DESIGNED: TDC

DRAWN: JEE

PROJECT NO.: 190164

SHEET: CE 1



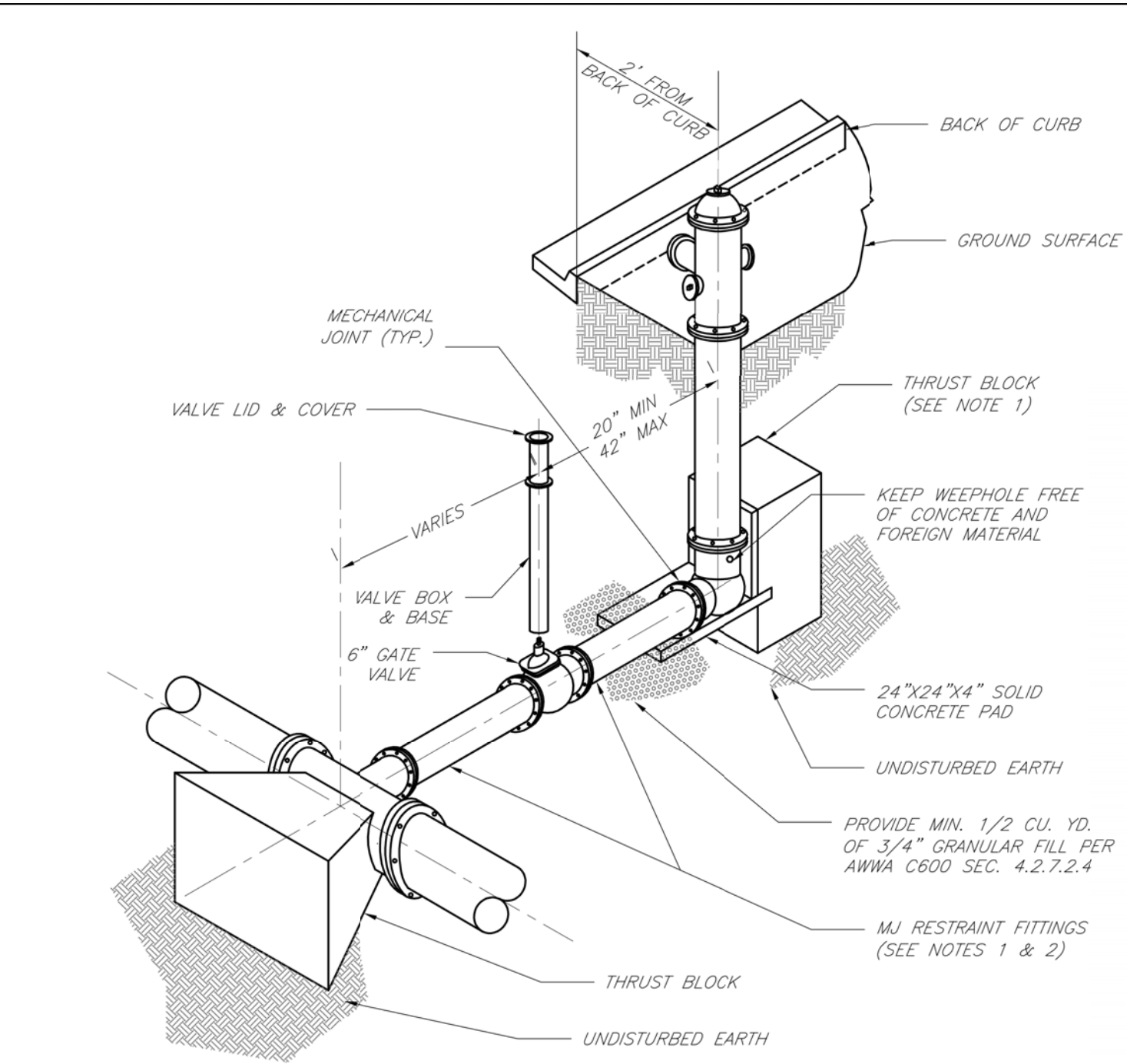
RECORD DRAWING
THE INFORMATION PROVIDED ON THIS DRAWING CONFORMS TO CONSTRUCTION RECORDS; IT IS NOT INTENDED FOR CONSTRUCTION, IMPLEMENTATION OR RECORDING PURPOSES; AND IS SOLELY BASED ON INFORMATION PROVIDED BY EMERY SAPP AND SONS, INC. ALL DATA IS AS DESIGNED AND HAS NOT BEEN FIELD VERIFIED.
DATE: 11/10/2022
CERTIFIED BY: TIM CROCKETT
TITLE: OWNER
FIRM: CROCKETT ENGINEERING CONSULTANTS

Record Drawing

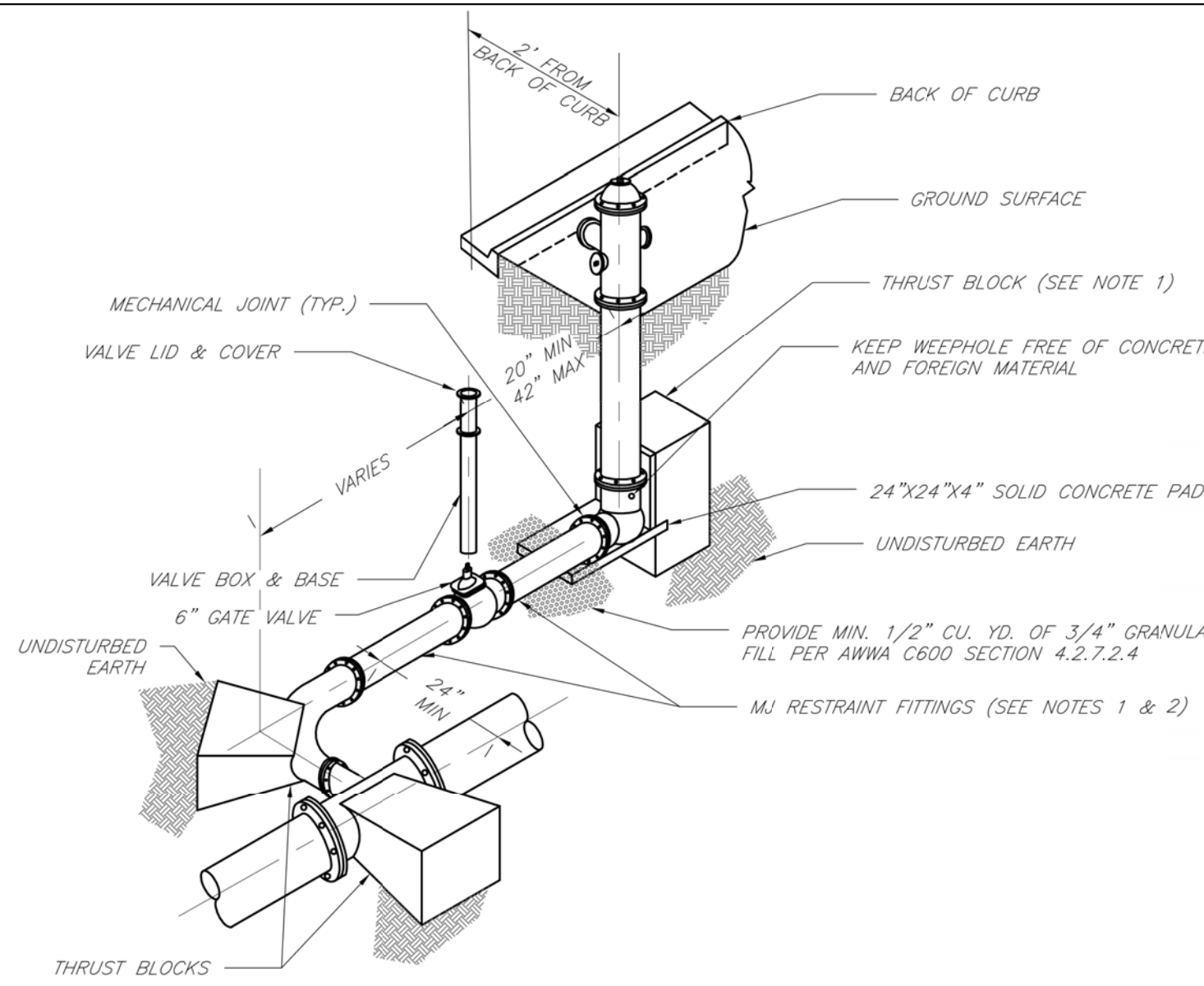
- NOTES**
- ELEVATIONS SHOWN ON PROFILE ARE FINISH GRADE ELEVATIONS.

SCALE:
HORIZ 1" = 20'
VERT 1" = 10'

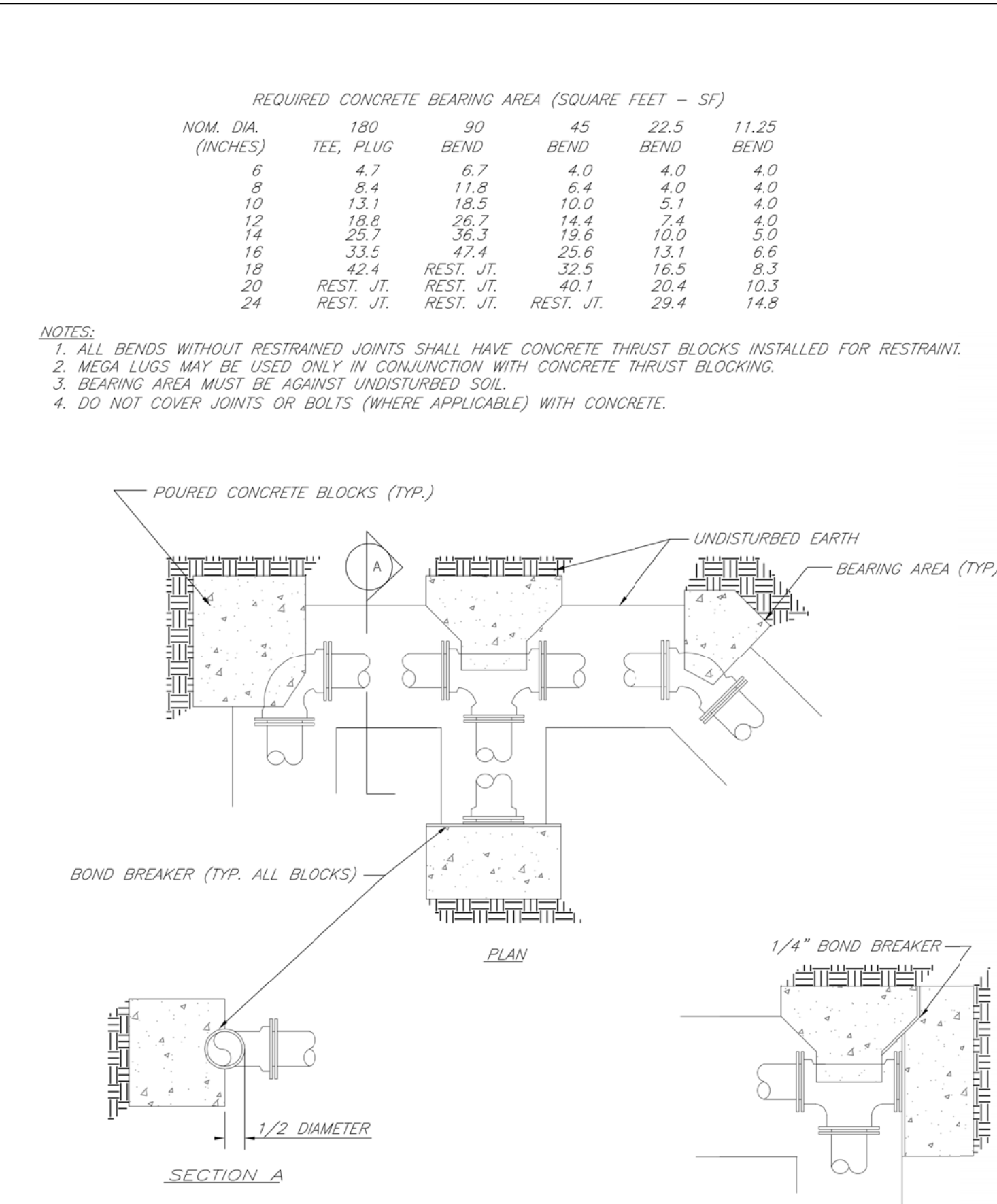
- LEGEND OF LABELS:**
- (Z) GRANULAR COMPACTED BACK FILL.



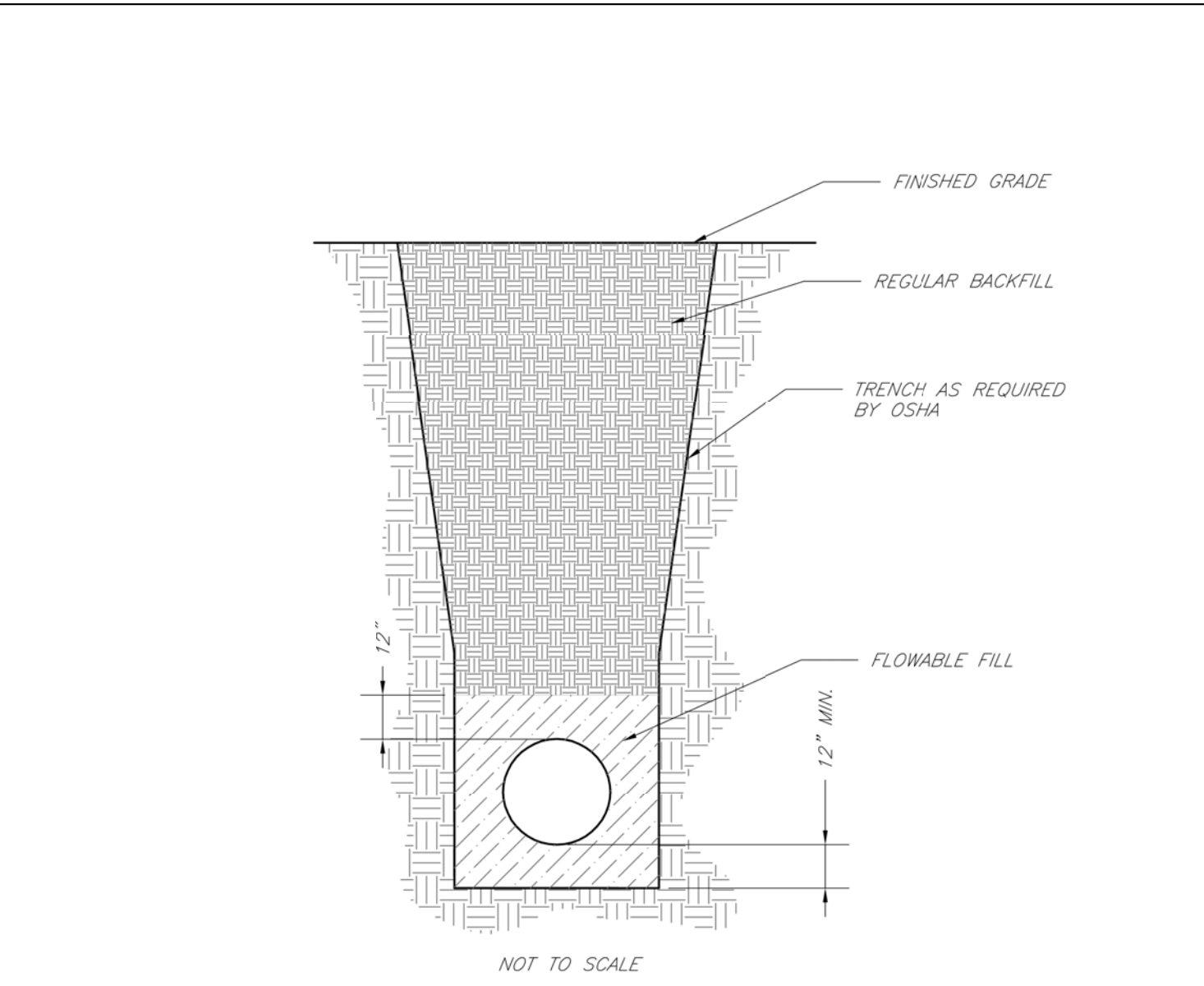
- NOTES:
1. WHEN RETAINER GLANDS ARE USED IN LIEU OF MECHANICAL JOINT (MJ) RESTRAINT FITTINGS, HORIZONTAL THRUST BLOCKS ARE REQUIRED.
 2. GATE VALVE MAY BE BOLTED DIRECTLY TO MJ RESTRAINT TEE.
 3. SEE APPROVED PRODUCTS LIST FOR WATER UTILITIES FOR FIRE HYDRANT, VALVES, VALVE BOX LID, AND COVER.
 4. BOTTOM HYDRANT FLANGE SHALL BE 2" TO 6" ABOVE FINISHED GRADE.
 5. FOR STREETS WITHOUT CURBS FIRE HYDRANTS SHALL BE PLACED WITHIN 1 FOOT OF THE R/W LINE, BUT NOT MORE THAN 10" FROM EDGE OF PAVEMENT. FIRE HYDRANT SHALL NOT BE PLACED IN BOTTOM OF DITCH.
 6. HYDRANT SHALL BE ROTATED AS DIRECTED BY INSPECTOR.



- NOTES:
1. WHEN RETAINER GLANDS ARE USED IN LIEU OF MECHANICAL JOINT (MJ) RESTRAINT FITTINGS, HORIZONTAL THRUST BLOCKS ARE REQUIRED.
 2. GATE VALVE MAY BE BOLTED DIRECTLY TO MJ RESTRAINT TEE.
 3. SEE APPROVED PRODUCTS LIST FOR WATER UTILITIES FOR FIRE HYDRANT, VALVES, VALVE BOX LID, AND COVER.
 4. BOTTOM HYDRANT FLANGE SHALL BE 2" TO 6" ABOVE FINISHED GRADE.
 5. FOR STREETS WITHOUT CURBS FIRE HYDRANTS SHALL BE PLACED WITHIN 1 FOOT OF THE R/W LINE, BUT NOT MORE THAN 10" FROM EDGE OF PAVEMENT. FIRE HYDRANT SHALL NOT BE PLACED IN BOTTOM OF DITCH.
 6. HYDRANT SHALL BE ROTATED AS DIRECTED BY INSPECTOR.



- NOTES:
1. ALL BENDS WITHOUT RESTRAINED JOINTS SHALL HAVE CONCRETE THRUST BLOCKS INSTALLED FOR RESTRAINT.
 2. MEGA LUGS MAY BE USED ONLY IN CONJUNCTION WITH CONCRETE THRUST BLOCKING.
 3. BEARING AREA MUST BE AGAINST UNDISTURBED SOIL.
 4. DO NOT COVER JOINTS OR BOLTS (WHERE APPLICABLE) WITH CONCRETE.



- NOTES:
1. FLOWABLE FILL SHALL MEET THE REQUIREMENTS OF THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL.
 2. REGULAR BACKFILL ABOVE THE TRENCH CHECK SHALL BE FREE OF DEBRIS, ORGANIC MATTER, AND STONES > 6" IN ANY DIMENSION.
 3. TOP OF FLOWABLE BACKFILL SHALL EXTEND 12" ABOVE THE TOP OF THE PIPE.
 4. LENGTH OF TRENCH CHECK SHALL BE A MINIMUM OF 12".

LS

LEE'S SUMMIT
MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

Date: 02/13
Drawn By: JN
Checked By: DL
FILE: WAT-7
Rev: 1/14

HYDRANT INSTALLATION - STRAIGHT SET

LS

LEE'S SUMMIT
MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

Date: 02/13
Drawn By: JN
Checked By: DL
FILE: WAT-8
Rev: 1/14

HYDRANT WITH 90 DEGREE BEND

LS

LEE'S SUMMIT
MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

Date: 02/13
Drawn By: JN
Checked By: DL
FILE: WAT-1
Rev: 1/14

HORIZONTAL THRUST BLOCKS

LS

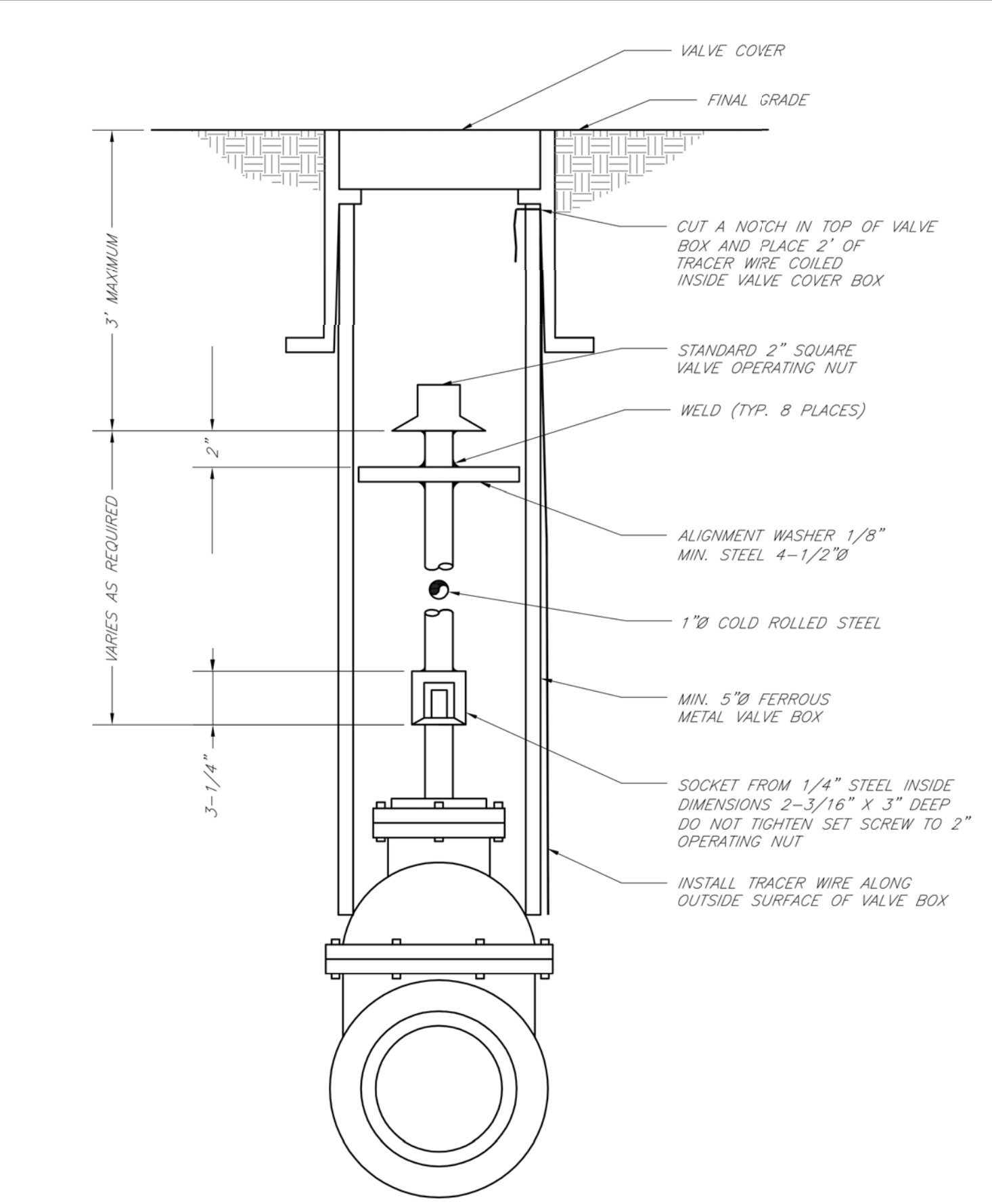
LEE'S SUMMIT
MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

Date: 02/13
Drawn By: JN
Checked By: DL
FILE: WAT-6
Rev: 1/14

TRENCH CHECK

RECORD DRAWING
THE INFORMATION PROVIDED ON THIS DRAWING CONFORMS TO CONSTRUCTION RECORDS; IT IS NOT INTENDED FOR CONSTRUCTION, IMPLEMENTATION OR RECORDING PURPOSES; AND IS SOLELY BASED ON INFORMATION PROVIDED BY EMERY SAPP AND SONS, INC. ALL DATA IS AS DESIGNED AND HAS NOT BEEN FIELD VERIFIED.
DATE: 11/10/2022
CERTIFIED BY: TIM CROCKETT
TITLE: OWNER
FIRM: CROCKETT ENGINEERING CONSULTANTS

Record Drawing

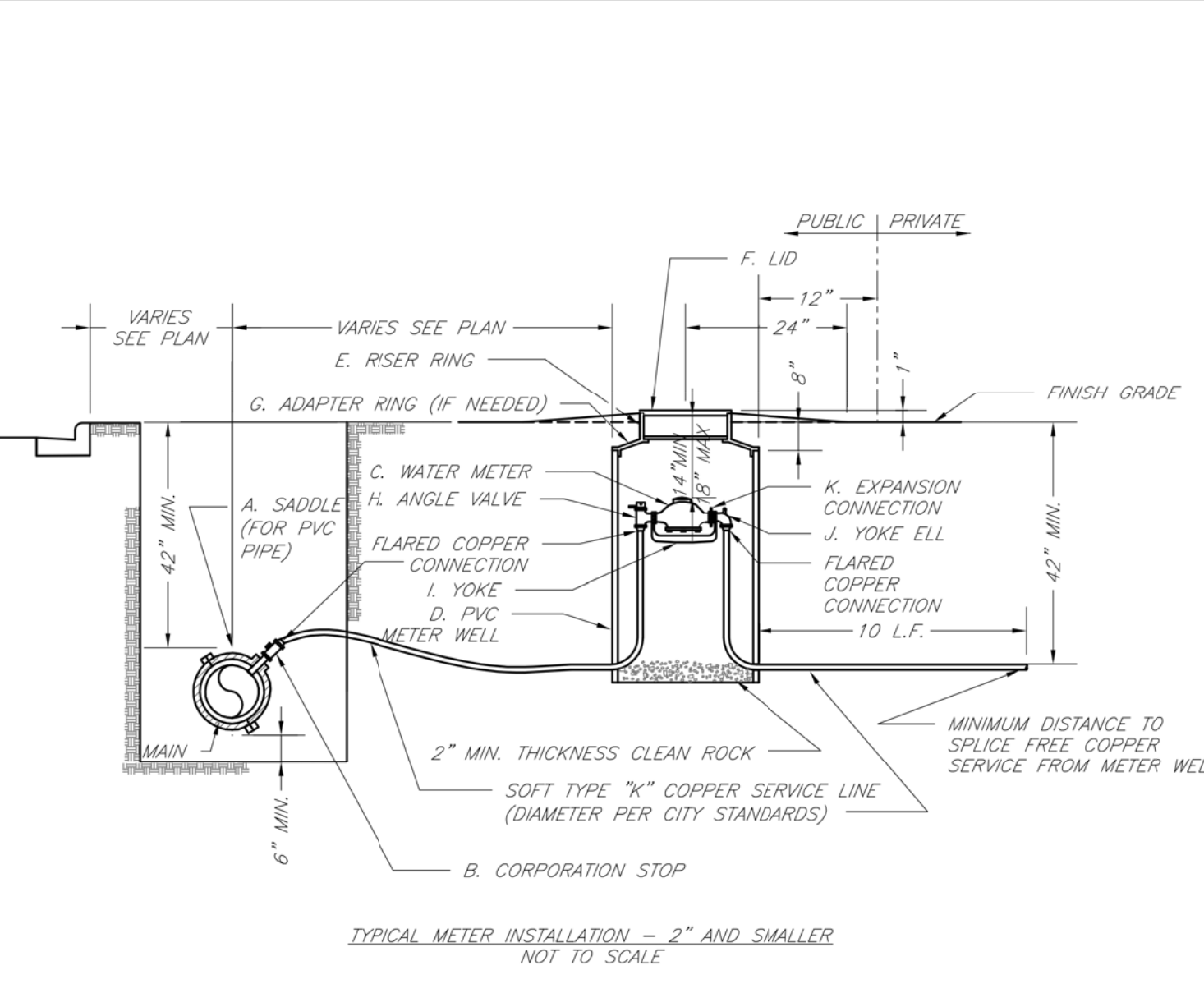


LS

LEE'S SUMMIT
MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

Date: 02/13
Drawn By: JN
Checked By: DL
FILE: WAT-9
Rev: 1/14

VALVE STEM EXTENSION AND VALVE BOX



- NOTES:
1. METER INSTALLATION SHALL NOT BE LOCATED IN AREAS SUBJECT TO VEHICULAR TRAFFIC OR IN CONCRETE PAVEMENT WITHOUT CITY APPROVAL.
 2. IF METER IS TO BE LOCATED OTHER THAN IN FRONT OF PROPERTY LINE, CITY APPROVAL SHALL BE OBTAINED.
 3. CITY TO FURNISH ITEMS A-K.
 4. NO OTHER EQUIPMENT SHALL BE INSTALLED IN THIS PIT.
 5. 42" MINIMUM BURY DEPTH FOR ALL SERVICE LINES.
 6. EXCAVATION FOR TAP TO EXPOSE 4 LINEAR FEET OF MAIN.
 7. NO SPLICES ALLOWED BETWEEN METER AND MAIN.
 8. SERVICE CONNECTION TAP AT APPROXIMATELY 45 DEGREES.
 9. LID AND RISER RING SHALL BE SET SO THAT GROUND WATER WILL DRAIN AWAY FROM THE WELL.
 10. CONTACT WATER UTILITIES, 816-969-1900, FOR REQUIREMENTS OF A METER LARGER THAN 2"

LS

LEE'S SUMMIT
MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

Date: 02/13
Drawn By: JN
Checked By: DL
FILE: WAT-11
Rev: 1/14

SERVICE CONNECTION/METER WELL

REVISIONS:

NO.	DATE
ORIGINAL	07/03/2019
1	09/04/2019
2	09/17/2019

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

PREPARED BY: **CROCKETT ENGINEERING CONSULTANTS**
TIMOTHY D. CROCKETT
CONSULTANT #0001
CROCKETT ENGINEERING CONSULTANTS, LLC
10001 W. 110TH ST., SUITE 100
OVERLAND PARK, MO 66203
(816) 440-0992
www.crockettengineering.com
Crockett Engineering Consultants, LLC
Missouri Certificate of Authority #00003101

OWNER: **KANSAS CITY SURGICAL AND DENTAL, LLC**
GREGORY LOHMEYER, D.D.S.
MOBILE: 816-906-6242

PUBLIC WATER MAIN EXTENSION
KANSAS CITY SURGICAL & DENTAL OFFICE
SECTION 20, TOWNSHIP 48 NORTH, RANGE 31 WEST
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

DRAWING INCLUDES: **WATER LINE DETAILS**

DESIGNED: TDC

DRAWN: JEE

PROJECT NO.: 190164

SHEET: **CE 2**