

**SECTION 11-47-31** 

**LOCATION MAP** SCALE 1" = 2000'

**UTILITY CONTACTS:** 

Steve Holloway

(816) 607-2186

SPIRE

Brent Jones

**EVERGY** 

Philip Ingram

Dena Mezger

(816) 969-1800

John Meadows

(816) 795-2257

Mark Schaufler

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Mark Manion or Marty Loper

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COMCAST CABLE

4700 Little Blue Parkway

1200 SE Hamblen Road

Lee's Summit, MO 64081

Lee's Summit, MO 64082

Lee's Summit, MO 64086

MISSOURI DEPARTMENT OF

TRANSPORTATION (MODOT)

(816) 399-0663brent.jones@spireenergy.com

CITY OF LEES SUMMIT PUBLIC WORKS

CITY OF LEE'S SUMMIT WATER UTILITIES

811 or 1-800-344-7483 mo1call.com

**GENERAL NOTES** 

- ALL WORKMANSHIP AND MATERIALS SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE
- ENGINEERING DEPARTMENT OF THE CITY OF LEE'S SUMMIT, MISSOURI LINEAL FOOT MEASUREMENTS SHOWN ON THE PLANS ARE HORIZONTAL MEASUREMENTS. NOT SLOPE
- MEASUREMENTS. ALL PAYMENTS SHALL BE MADE ON HORIZONTAL MEASUREMENTS. NO GEOLOGICAL INVESTIGATION HAS BEEN PERFORMED ON THE SITE.
- THE UTILITY LOCATIONS SHOWN ON THESE PLANS ARE TAKEN FROM UTILITY COMPANY RECORDS AND
- ASSEMBLY OF THE STATE OF MISSOURI. THE BILL REQUIRES THAT ANY PERSON OR FIRM DOING EXCAVATION ON PUBLIC RIGHT OF WAY DO SO ONLY AFTER GIVING NOTICE TO, AND OBTAINING INFORMATION FROM, UTILITY COMPANIES. STATE LAW REQUIRES 48 HOURS ADVANCE NOTICE. THE CONTRACTOR MAY ALSO UTILIZE THE FOLLOWING TOLL FREE PHONE NUMBER PROVIDED BY "MISSOURI ONE CALL SYSTEM, INC.": 1-800-DIG-RITE. THIS PHONE NUMBER IS APPLICABLE ANYWHERE WITHIN THE STATE OF MISSOURI. PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL NOTIFY ALL THOSE COMPANIES WHICH HAVE FACILITIES IN THE NEAR VICINITY OF THE CONSTRUCTION TO BE PERFORMED
- PRIOR TO ORDERING PRECAST STRUCTURES, SHOP DRAWING SHALL BE SUBMITTED TO THE DESIGN THE CONTRACTOR SHALL PROTECT ALL MAJOR TREES FROM DAMAGE. NO TREE SHALL BE REMOVED
- WITHOUT PERMISSION OF THE OWNER, UNLESS SHOWN OTHERWISE CLEARING AND GRUBBING OPERATIONS AND DISPOSAL OF ALL DEBRIS THEREFROM SHALL BE PERFORMED
- BY THE CONTRACTOR IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND ORDINANCES. WASTE MATERIAL RESULTING FROM THE PROJECT SHALL BE DISPOSED OF OFF-SITE BY THE
- CONTRACTOR, OR AS DIRECTED BY THE OWNER AT NO ADDITIONAL COST.
- THE CONTRACTOR SHALL CONTROL THE EROSION AND SILTATION DURING ALL PHASED OF CONSTRUCTION
- AND SHALL KEEP THE STREETS CLEAN OF MUD AND DEBRIS THE CONTRACTOR SHALL CONTACT THE CITY OF LEE'S SUMMIT DEVELOPMENT SERVICES ENGINEERING
- INSPECTION TO SCHEDULE A PRE-CONSTRUCTION MEETING WITH AN INSPECTOR PRIOR TO ANY LAND DISTURBANCE WORK AT (816) 969-1200. 14. THE CONTRACTOR SHALL CONTACT THE RIGHT OF WAY INSPECTOR AT 816-969-1800 PRIOR TO ANY LAND
- DISTURBANCE ACTIVITIES WITHIN THE RIGHT OF WAY. THESE ACTIVITIES MAY REQUIRE A PERMIT. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL TRAFFIC HANDLING MEASURES NECESSARY TO ENSURE THAT THE GENERAL PUBLIC IS PROTECTED AT ALL TIMES. TRAFFIC CONTROL SHALL CONFORM TO
- THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD-LATEST EDITION). 16. ALL SANITARY SEWER LATERALS SHALL HAVE A TRENCH CHECK, CONSISTING OF FLOWABLE BACKFILL, INSTALLED DURING CONSTRUCTION. TRENCH CHECK SHALL EXTEND TO BOTTOM OF TRENCH, TO WIDTH OF TRENCH, TO 12 INCHES ABOVE PIPE, FOR A MINIMUM LENGTH OF 12 INCHES. TRENCH CHECK SHALL BE LOCATED AT LEAST 5 FEET FROM SANITARY MAIN.

**SUMMARY OF QUANTITIES** 

ITEM

CONNECT TO EXISTING WATER MAIN

4 8" C900 DR18 WATER LINE (RESTRAINED JOINTS)

2 | 12" C900 DR18 WATER MAIN

5 | 12" X 12" TEE W/THRUST BLOCK

6 12" X 8" TEE W/THRUST BLOCK

7 | 12" X 6" TEE W/THRUST BLOCK

8 8" X 8" TEE W/THRUST BLOCK

9 8" X 6" TEE W/THRUST BLOCK

13 | 12" 90° BEND W/THRUST BLOCK

14 12" 45° BEND W/THRUST BLOCK

16 8" 22.5° BEND W/THRUST BLOCK

18 8" 11.25° BEND W/THRUST BLOCK

20 5-1/4" FIRE HYDRANT ASSEMBLY

19 12" AIR RELEASE ASSEMBLY

21 TEMP. FIRE HYDRANT

23 STRADDLE BLOCK

24 PERMIT FEE

25 BOND

22 TEMP. 8" X 6" REDUCER

15 8" 45° BEND W/THRUST BLOCK (VERT)

17 8" 22.5° BEND W/THRUST BLOCK (VERT)

10 | 12" BUTTERFLY VALVE

11 8" GATE VALVE

12 | 8" PLUG

3 8" C900 DR18 WATER LINE

QUANTITY | UNITS

1707

1137

73

14

3

5

LF

LF

LF

EA

LS

LS

### **EARTHWORK**

**PUBLIC WATER MAIN PLANS** 

RESIDENCES AT BLACKWELL

IN THE CITY OF LEE'S SUMMIT

JACKSON COUNTY, MO

- 1. PRIOR TO EARTHWORK ACTIVITIES. PRE-DISTURBANCE EROSION AND SEDIMENT CONTROL DEVICES SHALL BE IN PLACE PER THE STORM WATER POLLUTION PREVENTION PLAN AND/OR THE EROSION AND SEDIMENT CONTROL PLAN PREPARED FOR THIS SITE.
- ALL BACKFILL MATERIAL SHALL BE PLACED IN MAXIMUM 6-INCH LIFTS AND COMPACTED TO 95-PERCENT OF MAXIMUM DENSITY AS DEFINED USING A STANDARD PROCTOR TEST (AASHTO T99/ASTM 698). BACKFILL MATERIALS SHALL NOT INCLUDE ORGANIC MATTER, DEBRIS OR TOPSOIL
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REDISTRIBUTING THE TOPSOIL OVER PROPOSED TURF AND LANDSCAPED AREAS TO A MINIMUM DEPTH OF 6-INCHES BELOW FINAL GRADE
- ALL AREAS SHALL BE GRADED FOR POSITIVE DRAINAGE. UNLESS NOTED OTHERWISE THE FOLLOWING
- GRADES SHALL APPLY: A. TURF AREAS – 2.5% MINIMUM, 4H:1V MAXIMUM
- ALL DISTURBED AREAS SHALL BE FERTILIZED, SEEDED AND MULCHED IMMEDIATELY AFTER EXCAVATION ACTIVITIES HAVE CEASED. SEEDING SHALL BE PER THE EROSION AND SEDIMENT CONTROL PLAN AND/OF NOTED, SEEDING SHALL BE SUBSIDIARY TO THE CONTRACT PRICE FOR PIPE INSTALLATION.
- POLLUTION PREVENTION PLAN (SWPPP) PREPARED FOR THIS PROJECT. EROSION AND SEDIMENT CONTROL DEVICES SHALL BE PROPERLY MAINTAINED AND KEPT CLEAN OF SILT AND DEBRIS AND IN GOOD WORKING ORDER. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AS REQUIRED.

## UTILITIES

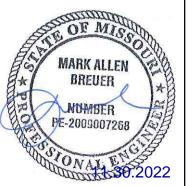
- EXISTING UTILITIES HAVE BEEN SHOWN TO THE GREATEST EXTENT POSSIBLE BASED UPON INFORMATION PROVIDED TO THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE RESPECTIVE UTILITY COMPANIES AND FIELD LOCATING UTILITIES PRIOR TO CONSTRUCTION AND IDENTIFYING ANY POTENTIAL CONFLICTS. ALL CONFLICTS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ANY REQUIRED UTILITY RELOCATIONS UTILITIES DAMAGED THROUGH THE NEGLIGENCE OF THE CONTRACTOR SHALL BE REPAIRED AT THE
- CONTRACTOR SHALL VERIFY FLOW-LINES AND STRUCTURE TOPS PRIOR TO CONSTRUCTION, AND SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES. PROVIDE SHOP DRAWINGS FOR ALL PRECAST AND MANUFACTURED UTILITY STRUCTURES FOR REVIEW BY THE ENGINEER PRIOR TO CONSTRUCTION OF THE
- UTILITY SEPARATION: WATERLINES SHALL HAVE A MINIMUM OF 10 FEET HORIZONTAL AND 2 FEET (MINIMUM OF 1.5 FEET) VERTICAL SEPARATION FROM ALL SANITARY AND STORM SEWER LINES. IF MINIMUM SEPARATIONS CAN NOT BE OBTAINED, DUCTILE IRON PIPE, DIP, SHALL BE REQUIRED 10 FEET IN EACH
- DIRECTION OF THE CONFLICT ON THE WATER LINE. 5. PAYMENT FOR TRENCHING, BACKFILLING, PIPE EMBEDMENT, FLOWABLE FILL, BACKFILL MATERIALS, CLEAN UP, SEEDING, SODDING AND ANY OTHER ITEMS NECESSARY FOR THE CONSTRUCTION OF THE UTILITY LINE
- SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE UTILITY INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING RESPECTIVE UTILITY COMPANIES 48-HOURS IN
- ADVANCE FOR THE INSPECTION OF ANY PROPOSED UTILITY MAIN EXTENSION OR SERVICE LINE OR SERVICE CONNECTION TO ANY EXISTING MAIN.
- TRENCH SPOILS SHALL BE NEATLY PLACED ONSITE ADJACENT TO THE TRENCH, AND COMPACTED TO PREVENT SATURATION AND EXCESS SEDIMENT RUNOFF. UNSUITABLE MATERIALS, ROCK AND SHALE, ASPHALT, CONCRETE, TREES, BRUSH ETC. SHALL BE PROPERLY DISPOSED OF OFFSITE. MATERIALS MAY BE WASTED ONSITE AT THE DIRECTION OF THE OWNER OR HIS APPOINTED REPRESENTATIVE.

Sheet Title
COVER SHEET
GENERAL LAYOUT
WATER LINE A - PUBLIC
WATER LINE A - PUBLIC
WATER LINE B - PUBLIC
WATER LINE C - PUBLIC
DETAILS

Sheet List Table



PREPARED BY



SCHLAGEL & ASSOCIATES, P.A

DATE

**APPROVED BY** 

CITY ENGINEER

**GRIFFIN RILEY PROPERTY GROUP** JAKE LOVELESS, VICE PRESIDENT 21 SE 29TH STREET LEE'S SUMMIT p 816-366-7900

OWNER/DEVELOPER

APPROVED FOR ONE YEAR FROM THIS DATE

JAKE@GRIFFINRILEY.COM

## MO GRS BENCHMARK:

STATION NAME - JA-90

KC METRO ALUMINUM GRS DISK SET IN CONCRETE STAMPED "JA-90, 1988" LOCATED NEAR THE INTERSECTION OF LANGSFORD ROAD AND OLD LANGSFORD ROAD, 43 FEET SOUTHEAST OF THE CENTER OF LANGSFORD ROAD AND 32 FEET NORTH OF THE CENTER OF OLD LANGSFORD ROAD. N:1001052.8503, E:2845604.8272

ELEV. 997.045

## **PROJECT BENCHMARK:**

"SQUARE" CUT IN TOP OF CONCRETE STORM MANHOLE STORM MANHOLE IS LOCATED APPROX. 130 FEET EAST OF THE INTERSECTION OF SE JOEL AVE & BLUE PARKWAY AND 26 FEET SOUTH OF THE CENTERLINE OF BLUE PARKWAY. N:996874.9690, E:2840937.1365

ELEV. 1005.719

# FEMA NOTE:

NO PART OF THE PROJECT LIES WITHIN THE 100 YEAR FLOOD PLAIN PER FEMA FLOOD INSURANCE RATE MAP NUMBERS 29095C0441G. 29095C0445G. 29095C0437G AND 29095C0439G DATED JANUARY 20TH, 2017.

## OIL/GAS NOTE:

THERE ARE NOT OIL/GAS WELLS PRESENT ON THE PROJECT PER MISSOURI DEPARTMENT OF NATURAL RESOURCES - MISSOURI

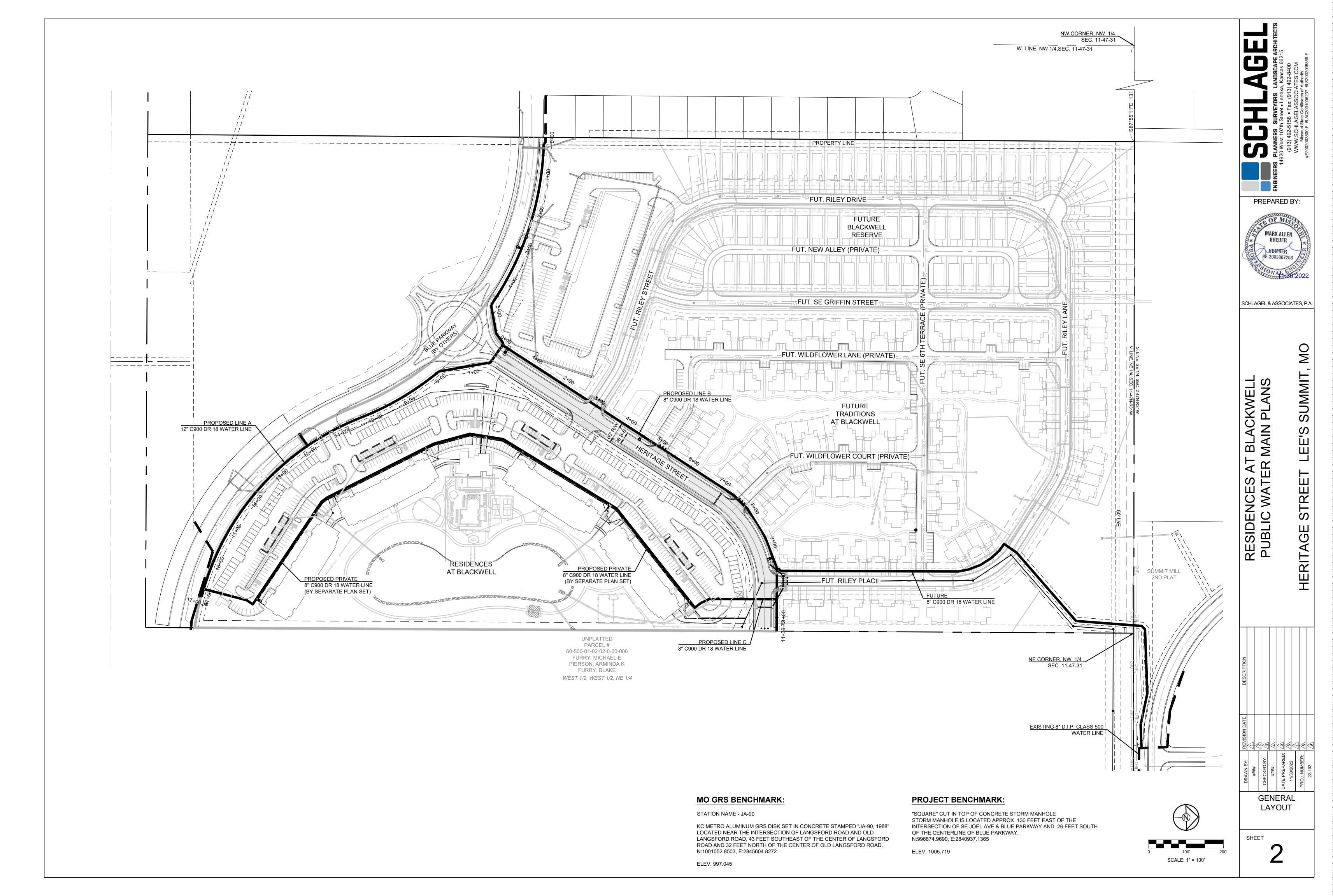


GEOLOGICAL SURVEY GeoSTRAT MAPPING.

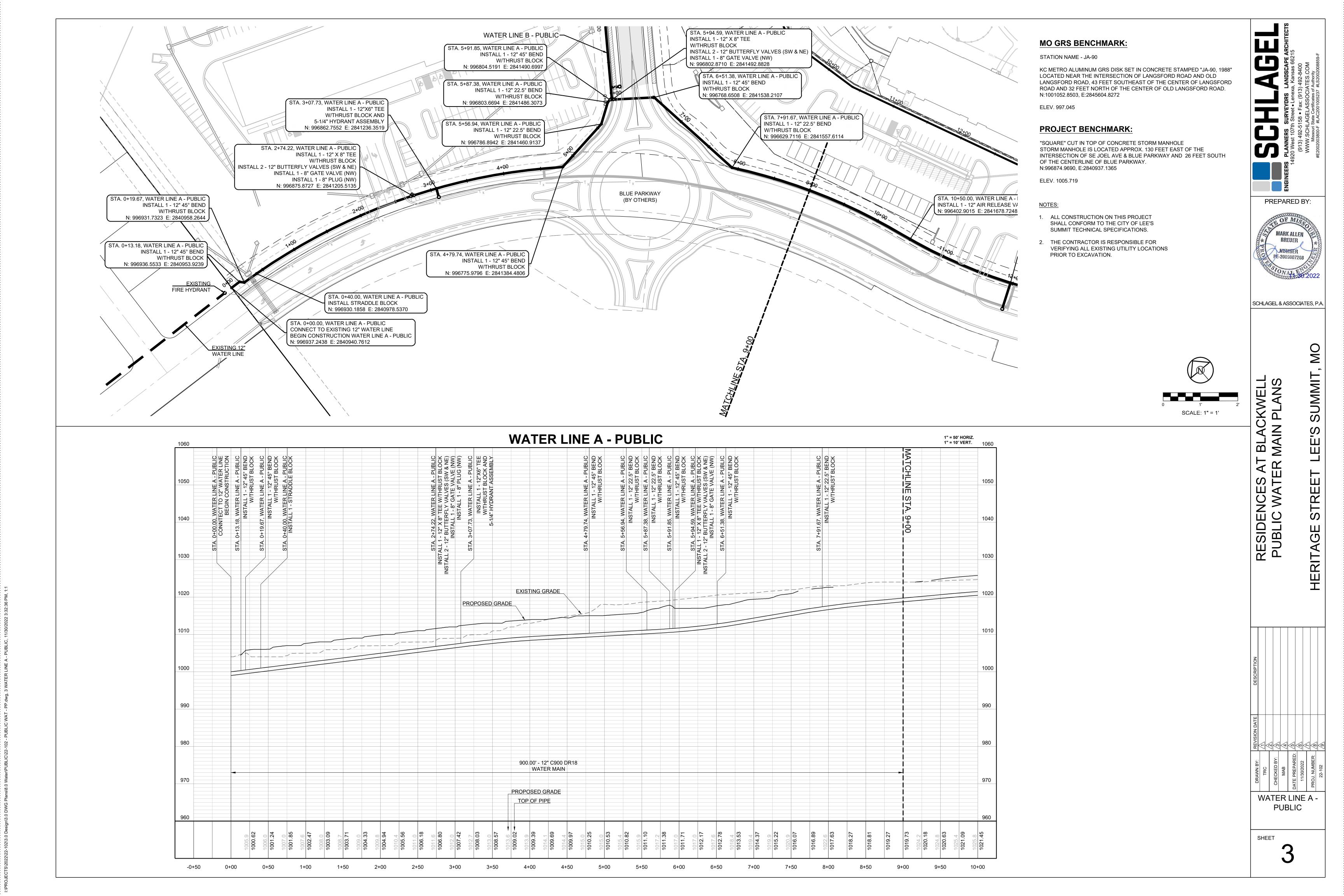


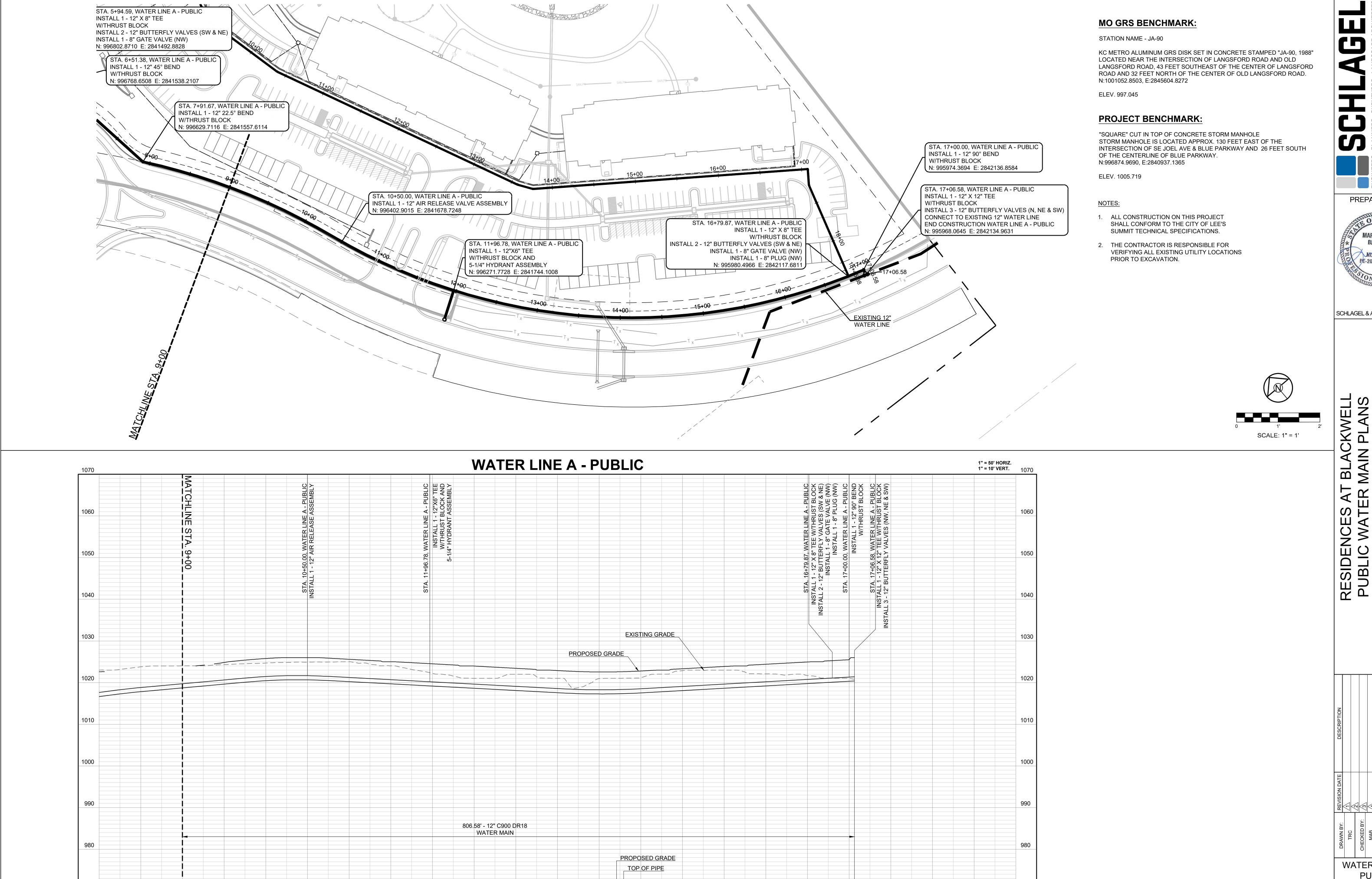
**COVER SHEET** 

SHEET



I:\PROJECTS\2022\22-102\3.0 Design\3.0 DWG Plans\8.0 Water\PUBLIC\22-102 - PUBLIC WAT - G





970

ERS PLANNERS SURVEYORS LANDSCAPE ARCHITE:

14920 West 107th Street • Lenexa, Kansas 66215

(913) 492-5158 • Fax: (913) 492-8400

WWW.SCHLAGELASSOCIATES.COM

Missouri State Certificates of Authority

#E2002003800-F #LAC2001005237 #LS2002008859-F

PREPARED BY:

MARK ALLEN
BREUER

MUMBER
PE-2009007268

SCHLAGEL & ASSOCIATES, P.A.

AIN PLANS

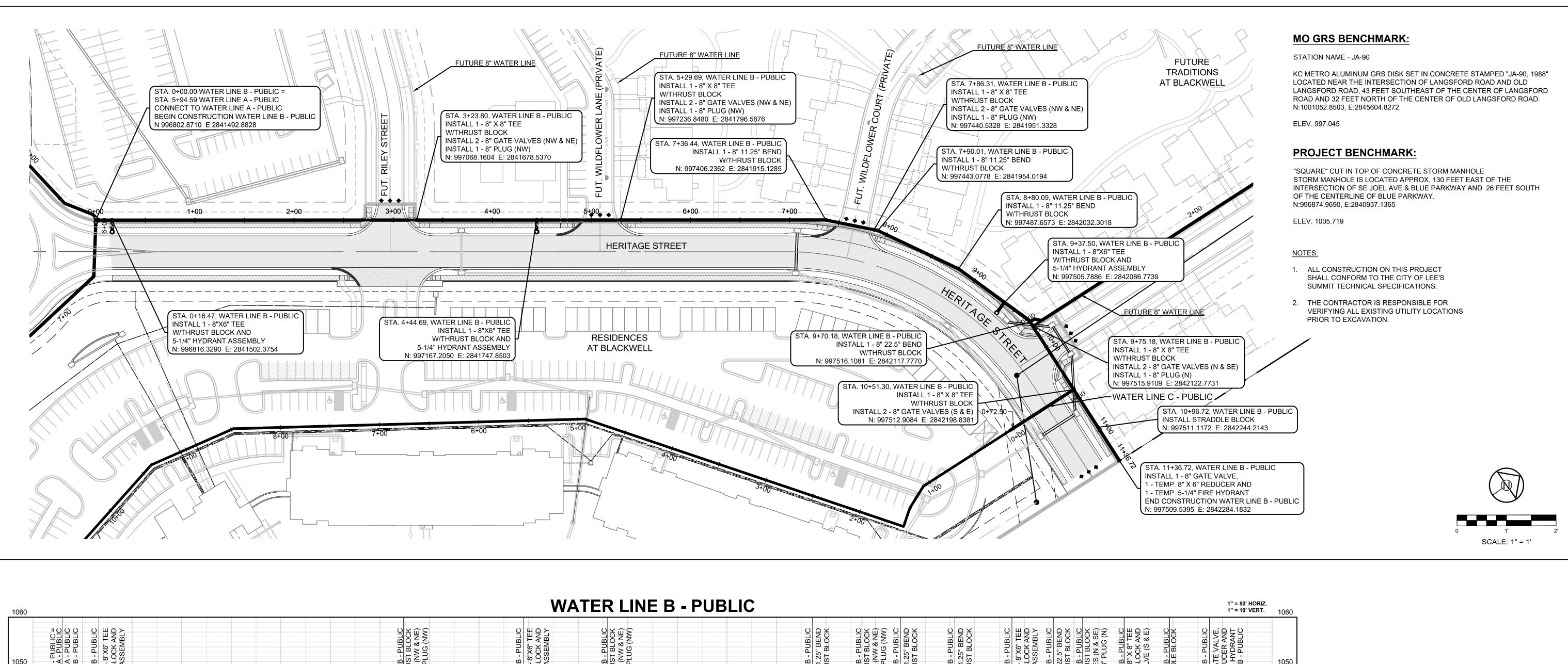
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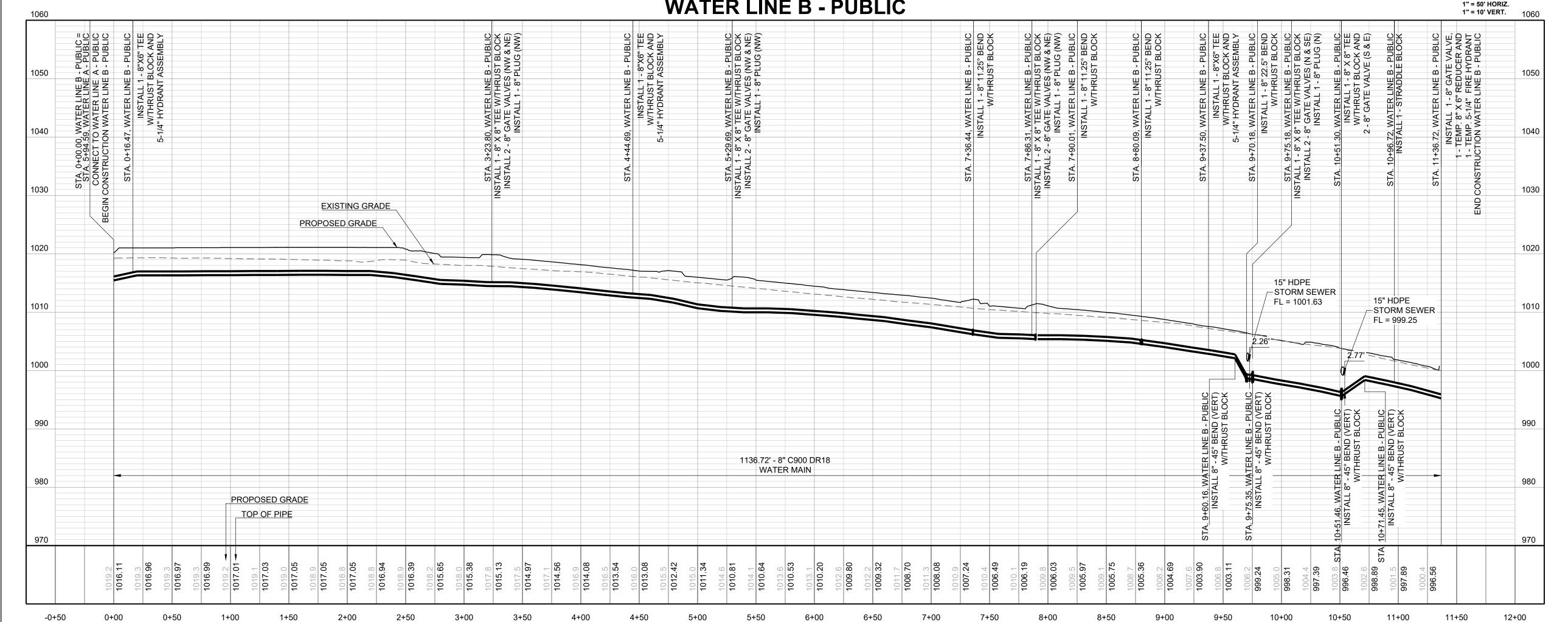
MAB DATE PREP, 11/30/20:

WATER LINE A -PUBLIC

SHEET

4





RS PLANNERS SURVEYORS LANDSCAPE ARCHITECTS
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AT BLACKWELL ER MAIN PLANS

RESIDENCES AT BLACK
PUBLIC WATER MAIN P
HERITAGE STREET LEE'S S

CHECKED BY: 3

MAB 4

DATE PREPARED: 6

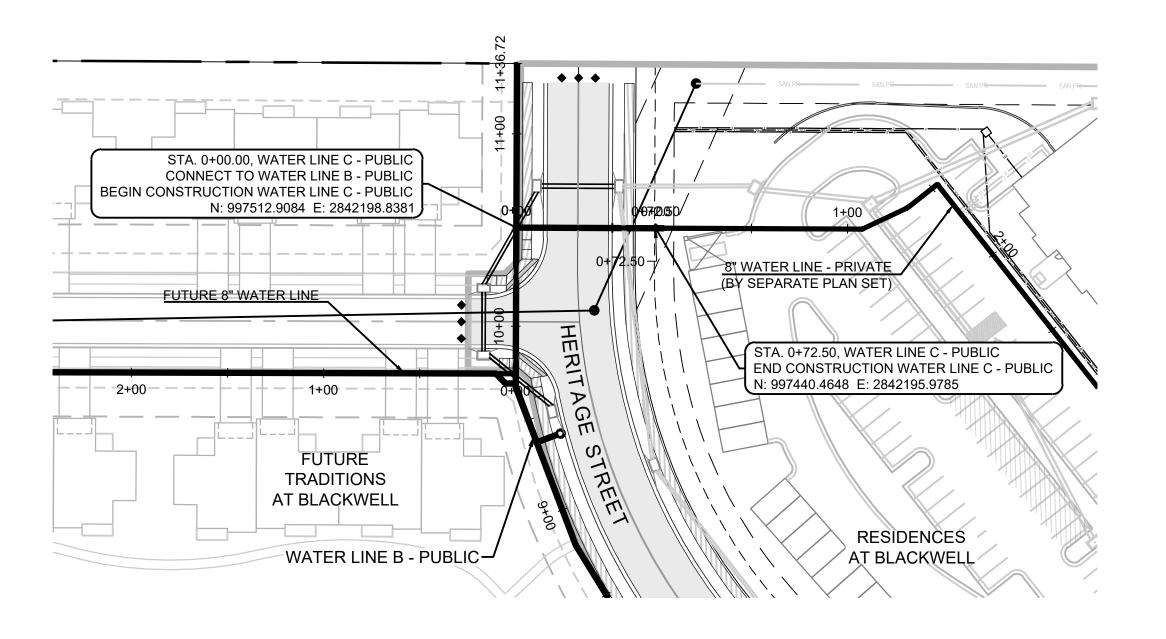
11/30/2022 6

PROJ. NUMBER: 8

WATER LINE B

SHEET

5



### MO GRS BENCHMARK:

STATION NAME - JA-90

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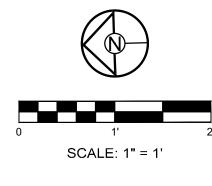
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ELEV. 1005.719

### NOTES:

- 1. ALL CONSTRUCTION ON THIS PROJECT SHALL CONFORM TO THE CITY OF LEE'S SUMMIT TECHNICAL SPECIFICATIONS.
- 2. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITY LOCATIONS PRIOR TO EXCAVATION.



1030 1020 15" HDPE STORM SEWER = FL = 998.16 1010 EXISTING GRADE PROPOSED GRADE 1000 8" PVC SDR-26 A. 0+20.00, WATER LINE C - PUBLIC
INSTALL 8" - 22.5° BEND (VERT)
W/THRUST BLOCK
A. 0+40.00, WATER LINE C - PUBLIC
INSTALL 8" - 45° BEND (VERT)
W/THRUST BLOCK
A. 0+60.00, WATER LINE C - PUBLIC
INSTALL 8" - 45° BEND (VERT)
W/THRUST BLOCK 990 SANITARY SEWER FL = 988.48 970 72.50' - 8" C900 DR18 960 WATER MAIN (RESTRAIN JOINTS) PROPOSED GRADE TOP OF PIPE 950 1+50 0+50 1+00

HERITAGE

PREPARED BY:

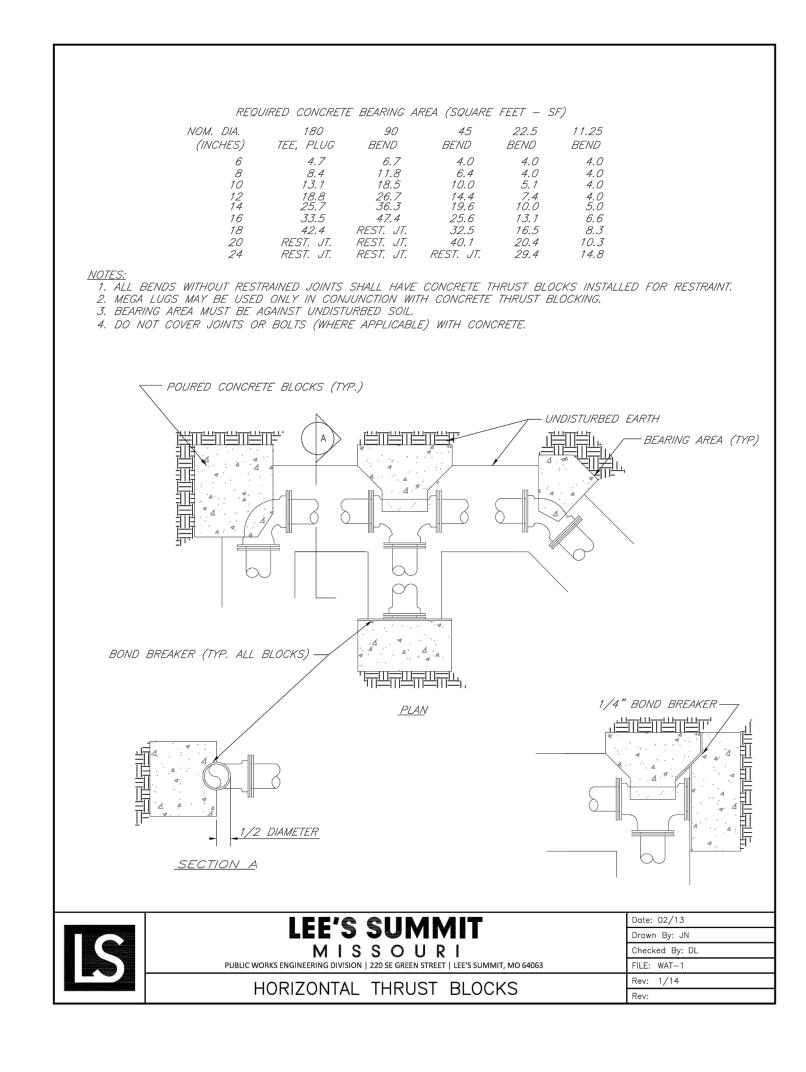
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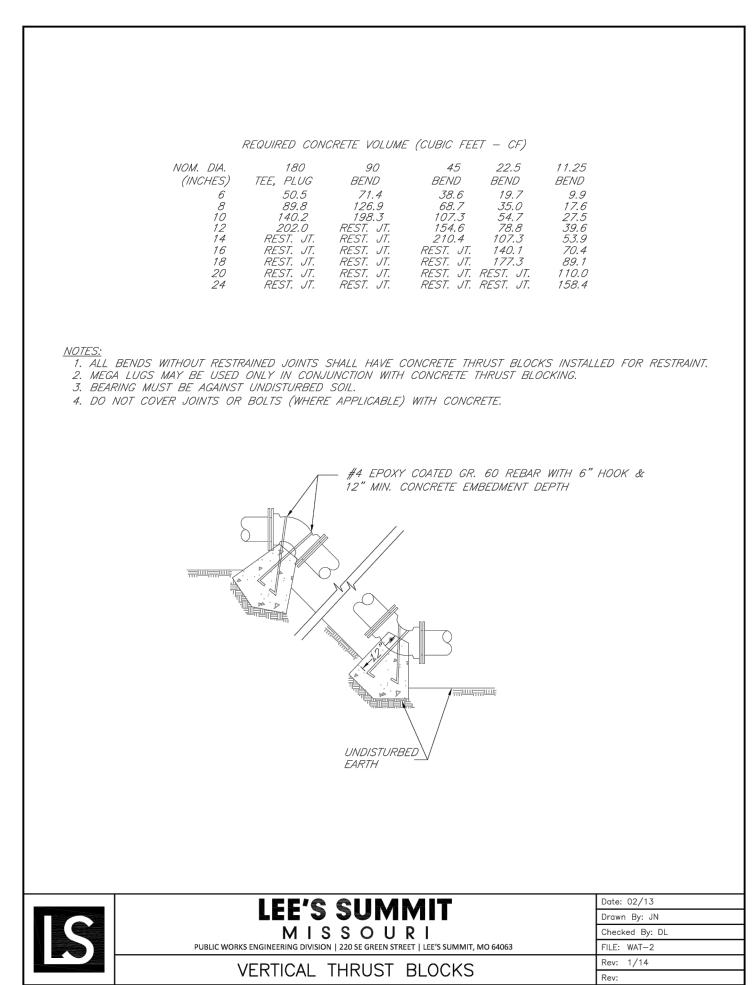
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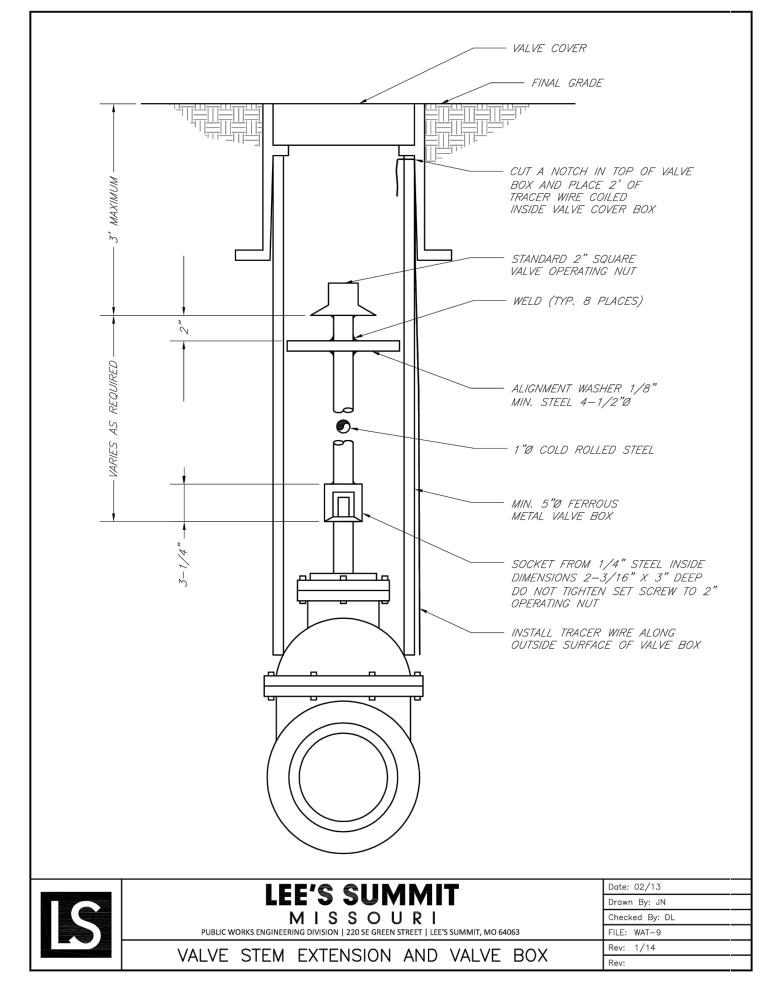
MARK ALLEN BREUER

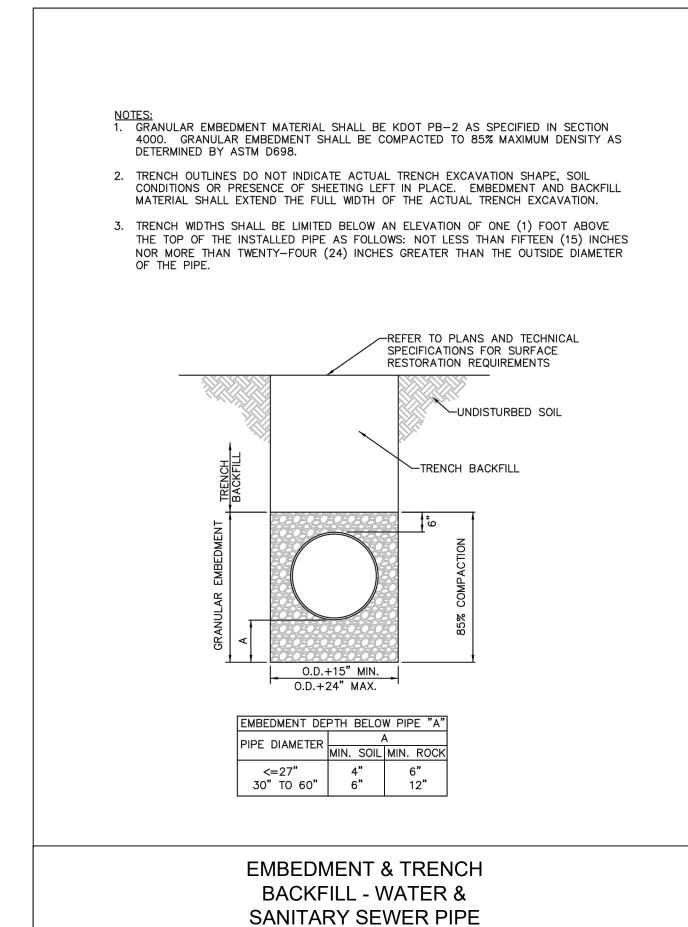
WATER LINE C -**PUBLIC** 

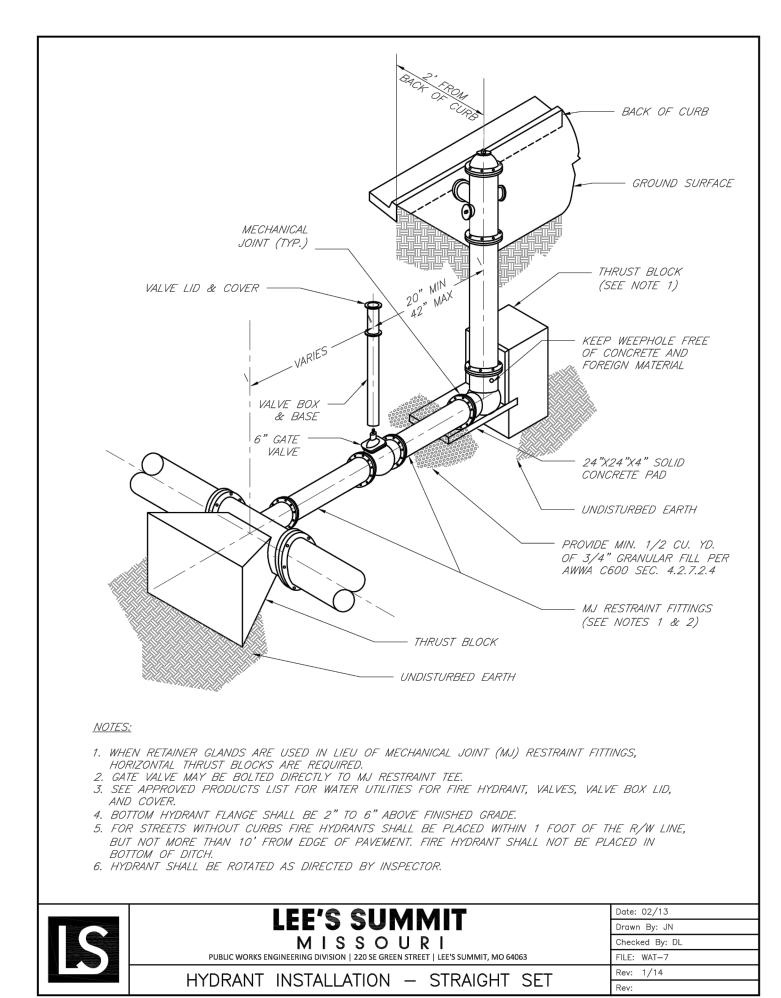
SHEET

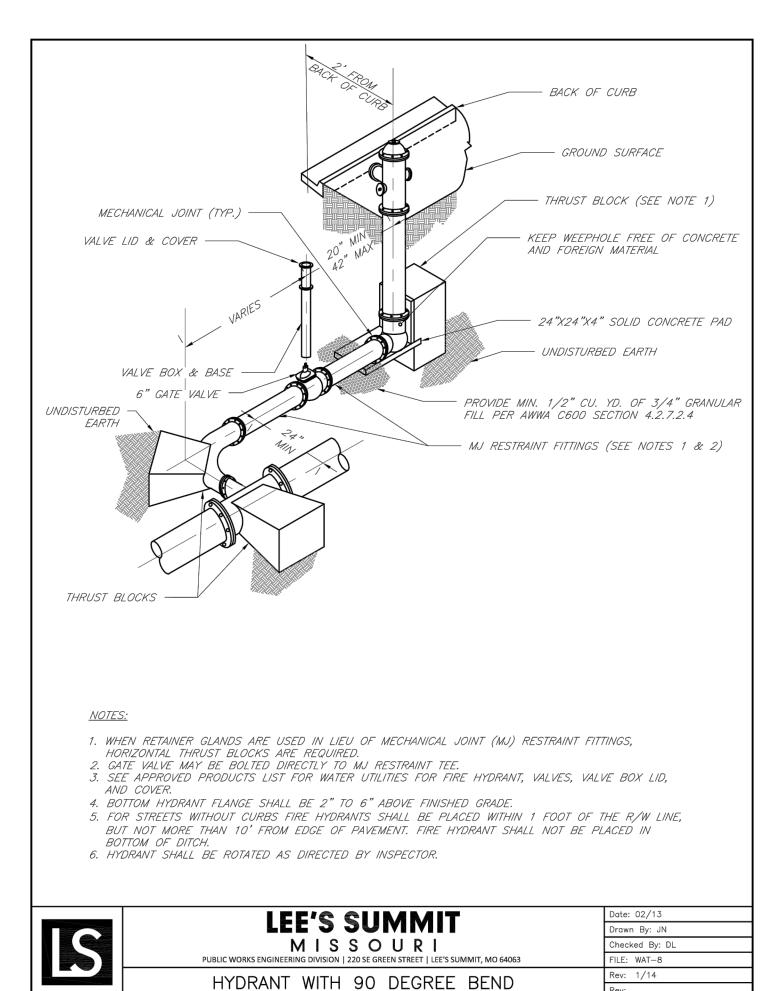


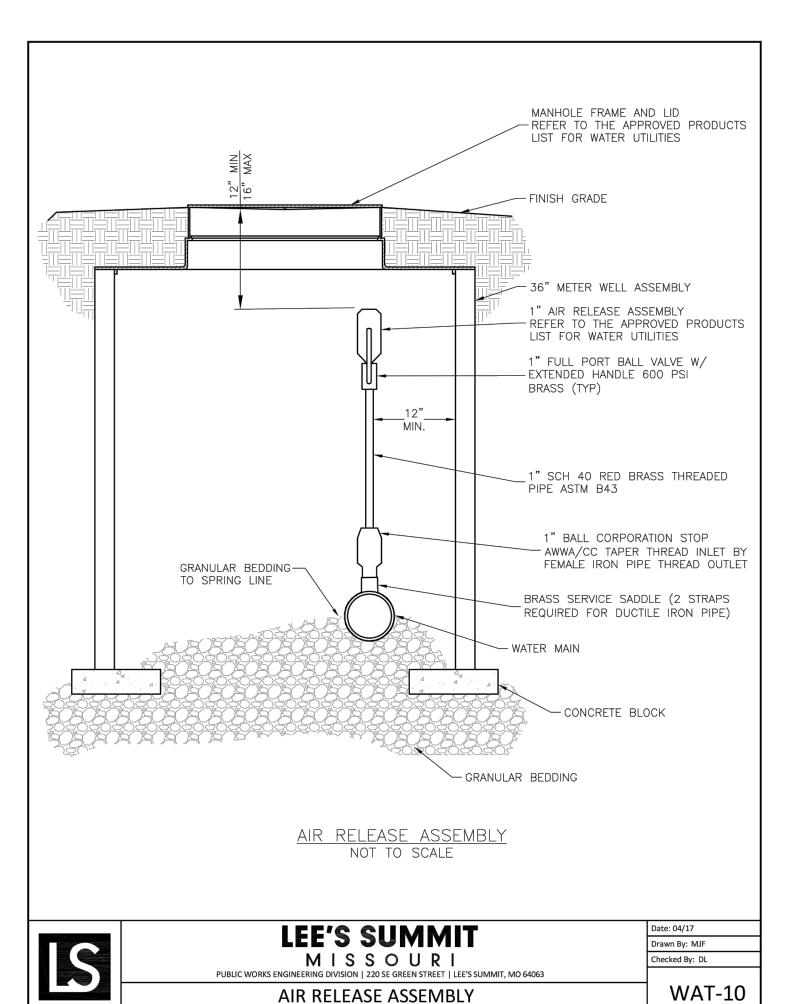


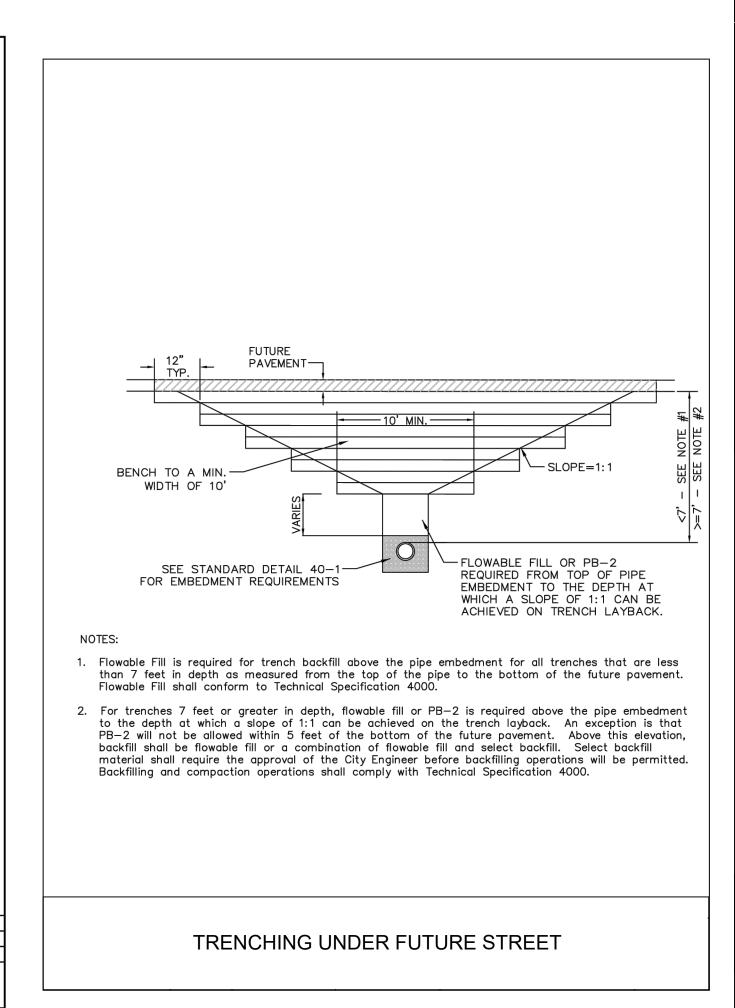


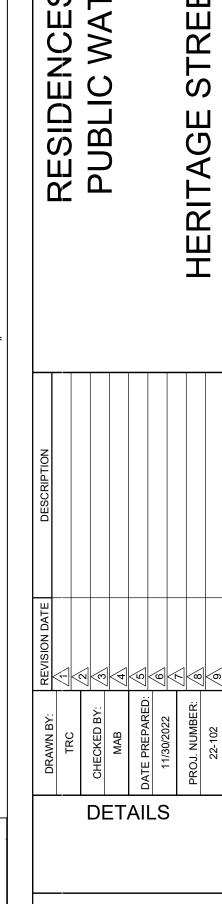












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MUMBER

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SHEET