





## W - WATER SERVICE INFORMATION - CITY OF LEE'S SUMMIT

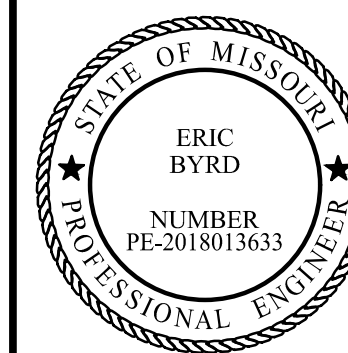
- 01 INSTALL 12"X6" REDUCER.  
02 REPLACE 1,380 LF OF EXISTING 6" WATER MAIN WITH 640 LF OF 12" C900  
WATER MAIN AND 740 LF OF 8" C900 WATER MAIN. INSTALL AT A MINIMUM  
DEPTH OF 42". REFER TO SHEET 3.  
03 INSTALL 8" 22.5° BEND WITH THRUST BLOCKING.  
04 INSTALL 8" 60° BEND WITH THRUST BLOCKING.  
05 INSTALL 8"X8" TEE WITH THRUST BLOCKING. SEE WATER MAIN NOTE 1.  
06 INSTALL 12"X12" TEE WITH THRUST BLOCKING. SEE WATER MAIN NOTE 1.  
07 INSTALL 12"X8" CROSS. SEE WATER MAIN NOTE 1.  
08 INSTALL STRADDLE BLOCK. SEE DETAIL WAT-3 ON SHEET 4 FOR DETAIL.  
STRADDLE BLOCK SHALL BE INSTALLED ON PIECE OF PIPE THAT CONNECTS  
TO THE CLOSET MECHANICAL JOINT AND TEE/CROSS CONNECTIONS. SEE  
JOINT RESTRAINT NOTE.  
09 APPROXIMATE LOCATION OF EXISTING SERVICE CONNECTION. SEE DETAIL  
WAT-11 ON SHEET 4.  
10 EXISTING VALVE TO REMAIN.  
11 INSTALL 12" BUTTERFLY VALVE IF AVAILABLE EITHER THROUGH THE MARKET  
OR THE CITY OF LEE'S SUMMIT WATER DEPARTMENT. IF NOT AVAILABLE,  
INSTALL 12" GATE VALVE, ONLY IF SPECIFIC WRITTEN APPROVAL IS  
GRANTED BY THE CITY OF LEE'S SUMMIT.  
12 INSTALL 8" GATE VALVE.  
13 INSTALL 8"X6" REDUCER.  
14 INSTALL 12"X6" TEE WITH THRUST BLOCKING. SEE JOINT RESTRAINT NOTE.  
INSTALL 12"X8" REDUCER NORTH OF TEE. RESTRAIN ALL MECHANICAL  
JOINTS AND ANY JOINTS BETWEEN THE TEE AND REDUCER.

1. CONTRACTOR SHALL REFER TO ALL SPECIFICATIONS, GUIDELINES, AND INSTALLATION DRAWINGS FROM THE CITY OF LEE'S SUMMIT, EVERGY, AND SPIRE FOR THE INSTALLATION OF ALL SERVICE LINES.
2. CONTRACTOR TO ENSURE 18" MINIMUM SEPARATION BETWEEN WATER MAIN AND STORM/SANITARY LINES AT CROSSINGS PER LEE'S SUMMIT DESIGN STANDARDS. CONTRACTOR TO CALL CIVIL IF ANY CONFLICTS BETWEEN UTILITIES ARE FOUND.
3. CONTRACTOR TO RESTORE EXISTING CONDITIONS IF DEMOLISHED/DAMAGED DURING CONSTRUCTION TO MEET CITY OF LEE'S SUMMIT STANDARDS.
  - 3.1. REFER TO DETAILS ON SHEET 5 FOR RESTORATION DETAILS

1. ALL JOINTS BETWEEN STRADDLE BLOCKS AND REDUCERS SHALL BE RESTRAINED. ANY JOINT BETWEEN THE STRADDLE BLOCK AND THE CLOSEST MECHANICAL JOINT SHALL BE RESTRAINED IF THE STRADDLE BLOCK IS MOVED FARTHER FROM THE CONNECTION.

1. CONTRACTOR SHALL RECONNECT ALL EXISTING WATER SERVICE LINES THAT ARE DISCONNECTED DURING THE WATER MAIN DEMOLITION AND CONSTRUCTION. SEE DETAIL WAT-11 ON SHEET 4.

**RECORD  
DRAWING**  
**3/8/2022**



JOHN KNOX VILLAGE  
1001 NW CHIPMAN RD.  
LEE'S SUMMIT, MO 64081  
816-251-8000

**PUBLIC WATER MAIN IMPROVEMENTS  
JOHN KNOX VILLAGE MEADOWS  
LEE'S SUMMIT, MO 64081**

|                 |            |
|-----------------|------------|
| Design: SKT     | Drawn: SKT |
| Checked:        | ERB        |
| Issue Date:     | 09/24/2021 |
| Project Number: | 028800     |





GRAPHIC SCALE



A horizontal scale bar with a black and white checkerboard pattern on the left half and a solid black half on the right. The numbers 60, 0, and 60 are printed below the bar.

01 EROSION CONTROL WATTLE / BIODEGRADABLE LOG (TYP.) TO BE PLACED AT BACK OF CURB  
02 CONTRACTOR TO RESTORE AREAS DISTURBED BY WATER MAIN CONSTRUCTION TO  
PREVIOUS CONDITION. GRASSY AREAS DISTURBED TO BE RESTORED WITH SOD.

  WATER MAIN DISTURBED AREA LIMITS (0.07 AC)  
  PRIVATE PROJECT DISTURBED AREA LIMITS (0.07 AC)  
 DISTURBED AREA TO BE RESTORED  
 STRAW WATTLE / BIODEGRADABLE LOG

- SEE EROSION CONTROL DETAIL SHEET FOR THE FOLLOWING

ESC-04 APWA WATTLE / BIODEGRADABLE LOG DETAIL

**RECORD  
DRAWING**  
**3/8/2022**

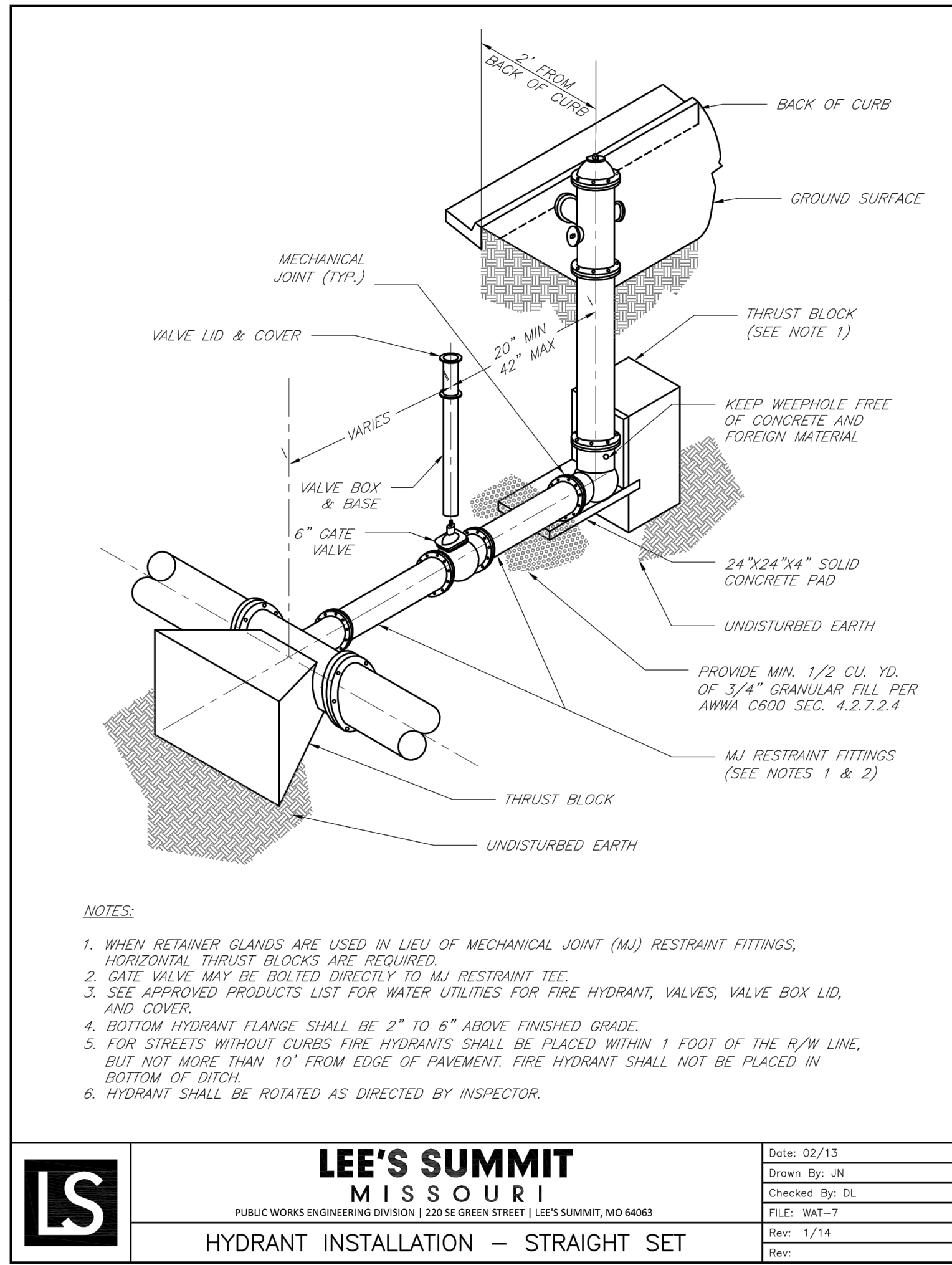
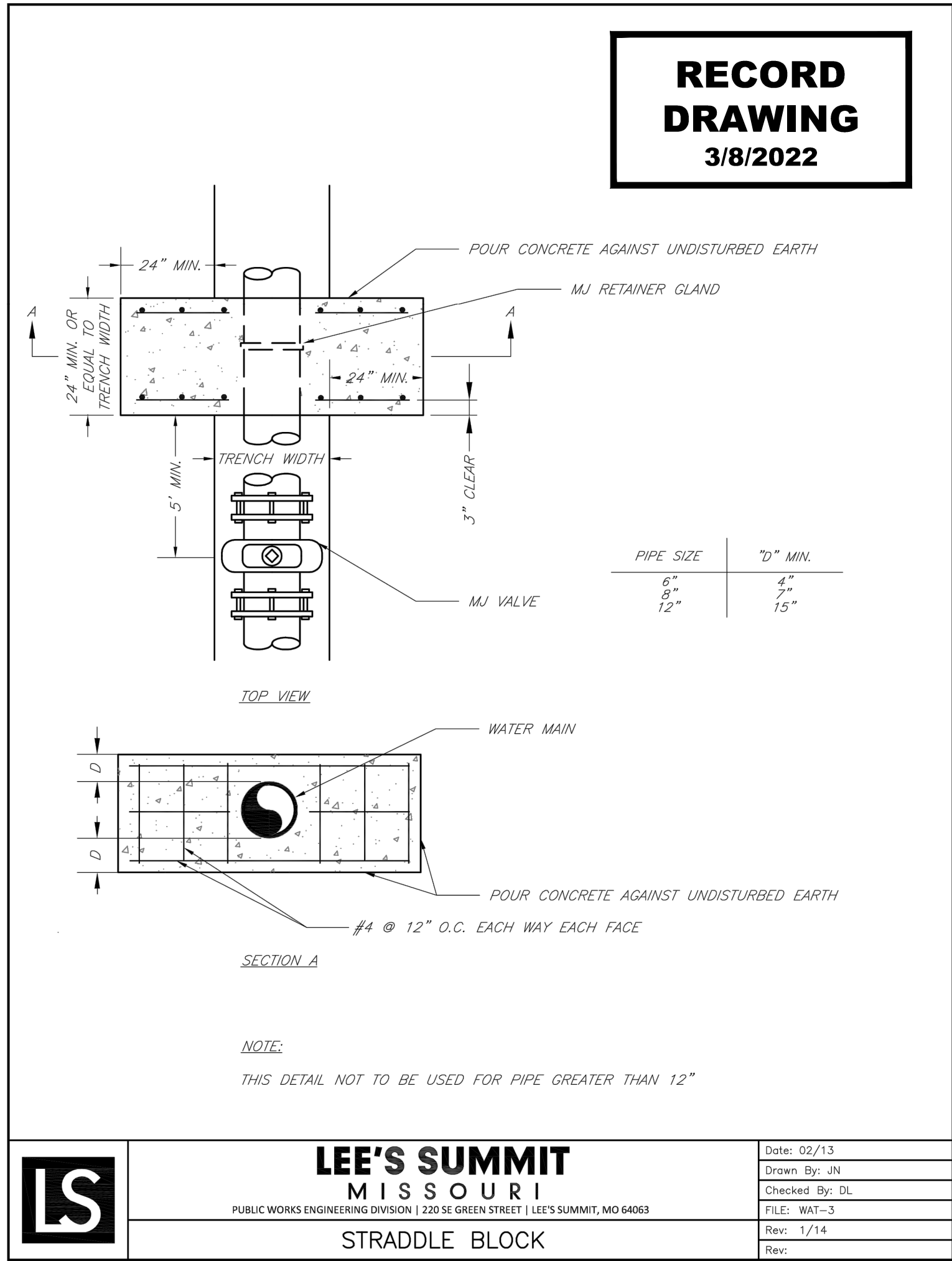
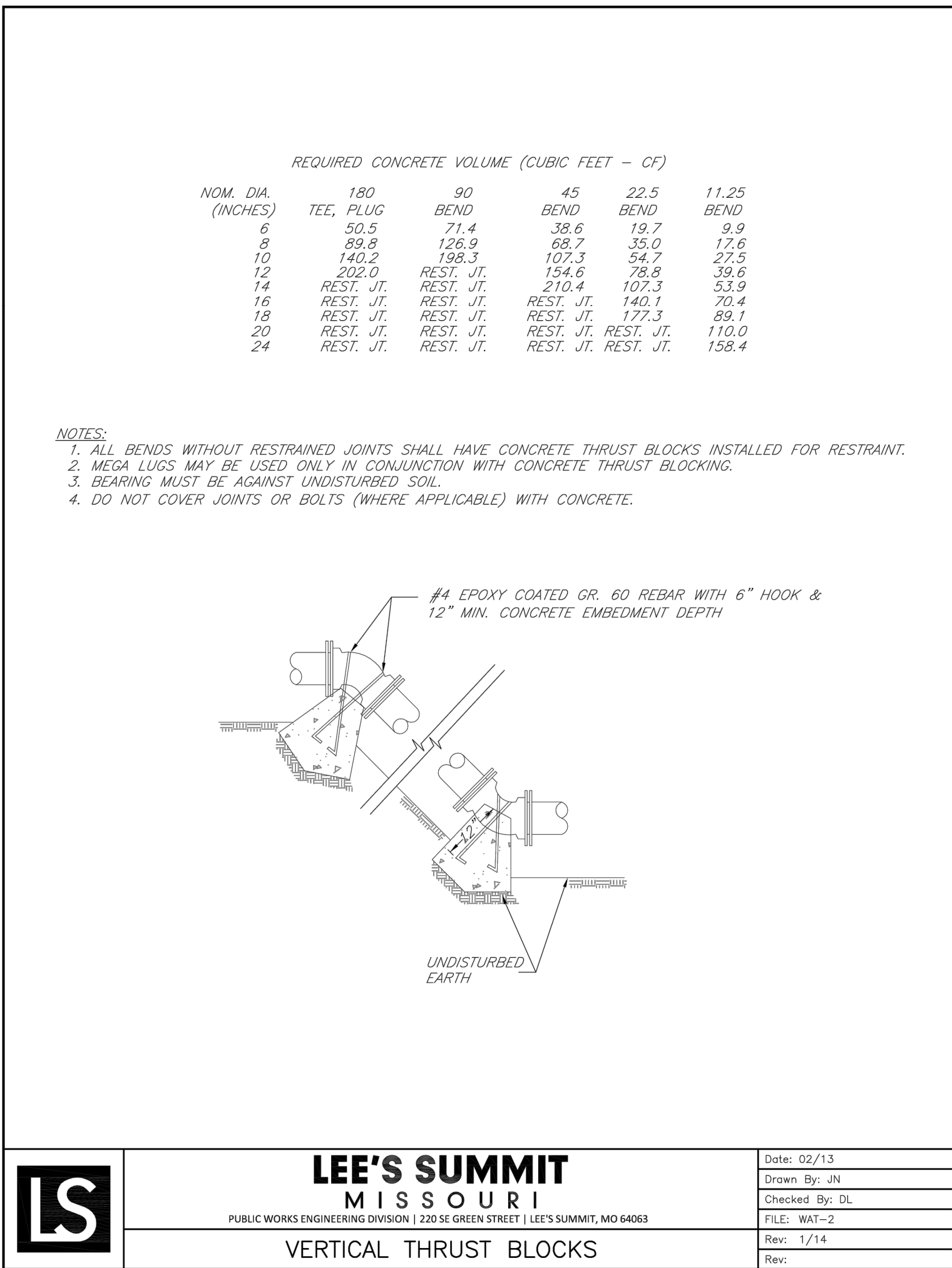
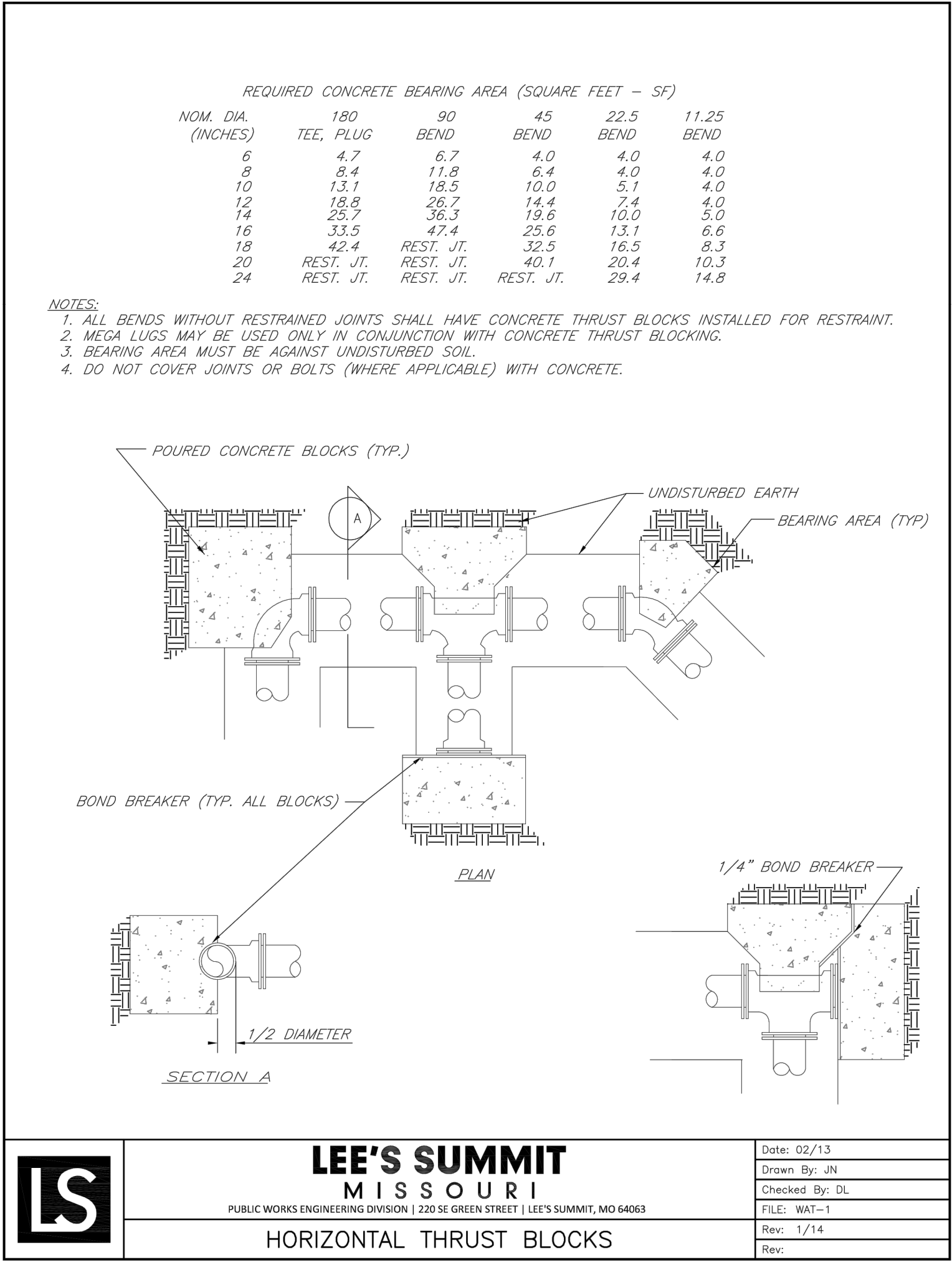


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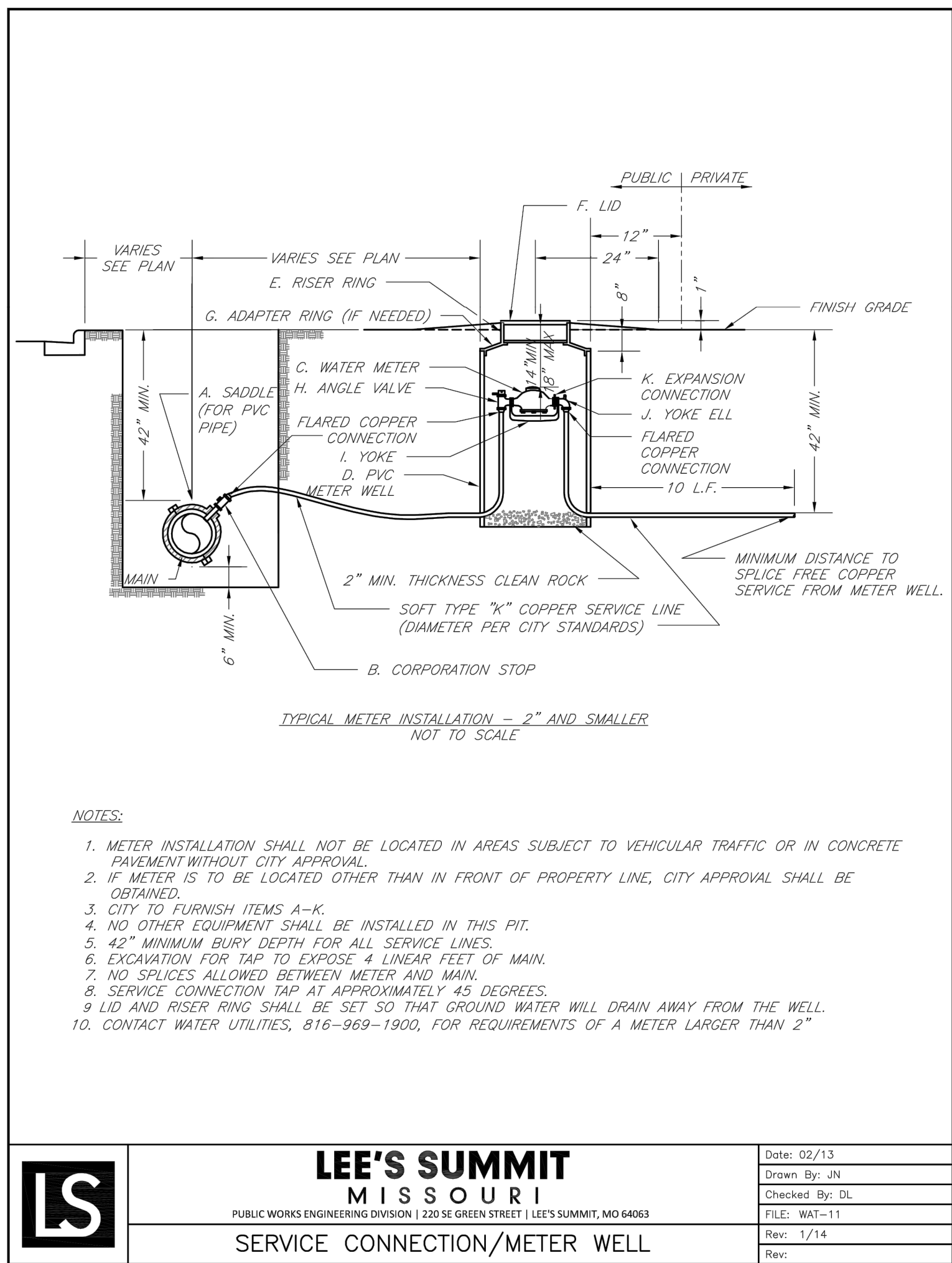
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Mar 08, 2022 -- 1:36pm Plotted By: Eric Byrd V:\028800--John Knox Village Ph 1\04--DWG\Eng\Sheet\PIPE\028800--SHTS--WMAIN.dwg Layout: DETAILS



**TYPICAL WATER MAIN TRENCH WITH ABANDONED IN PLACE PIPE**  
Not to Scale



| Rev.   | Date | Description    | By | App. |
|--------|------|----------------|----|------|
| 3/8/22 |      | Record Drawing |    |      |

STATE OF MISSOURI  
ERIC BYRD  
NUMBER  
PE-2018013633  
PROFESSIONAL ENGINEER

**PHC**  
CIVIL ENGINEERING, SURVEYING & UTILITIES  
7101 College Blvd., Suite 400  
Overland Park, Kansas 66210  
p. 913.663.1900  
PHC is a Division of Berglund Hensel & Company, P.A.

Prepared For:  
**JOHN KNOX VILLAGE**  
1001 NW CHIPMAN RD.  
LEE'S SUMMIT, MO 64081  
816-251-8000

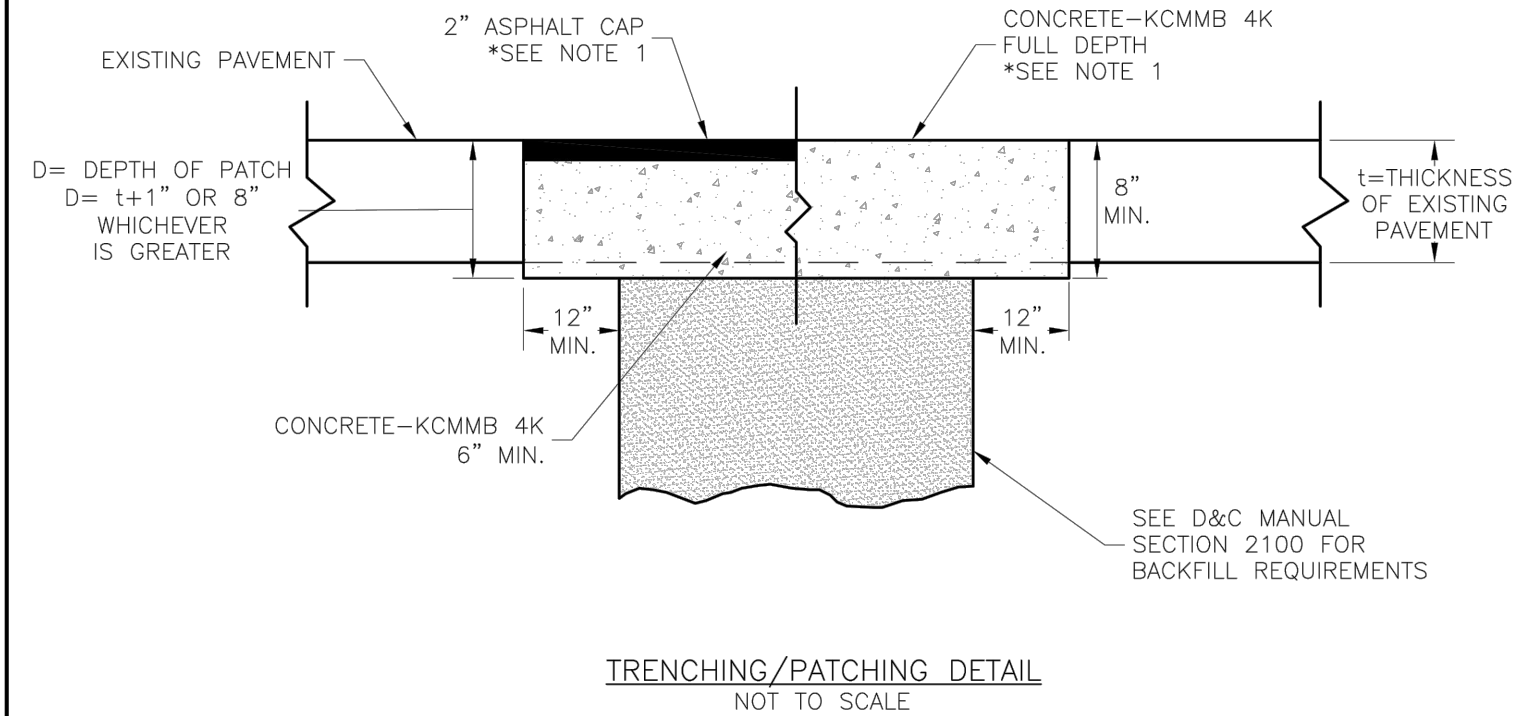
**PUBLIC WATER MAIN IMPROVEMENTS**  
**JOHN KNOX VILLAGE MEADOWS**  
**LEE'S SUMMIT, MO 64081**

**WATER MAIN DETAILS**

Design: SKT Drawn: SKT  
Checked: ERB  
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Project Number: 028800

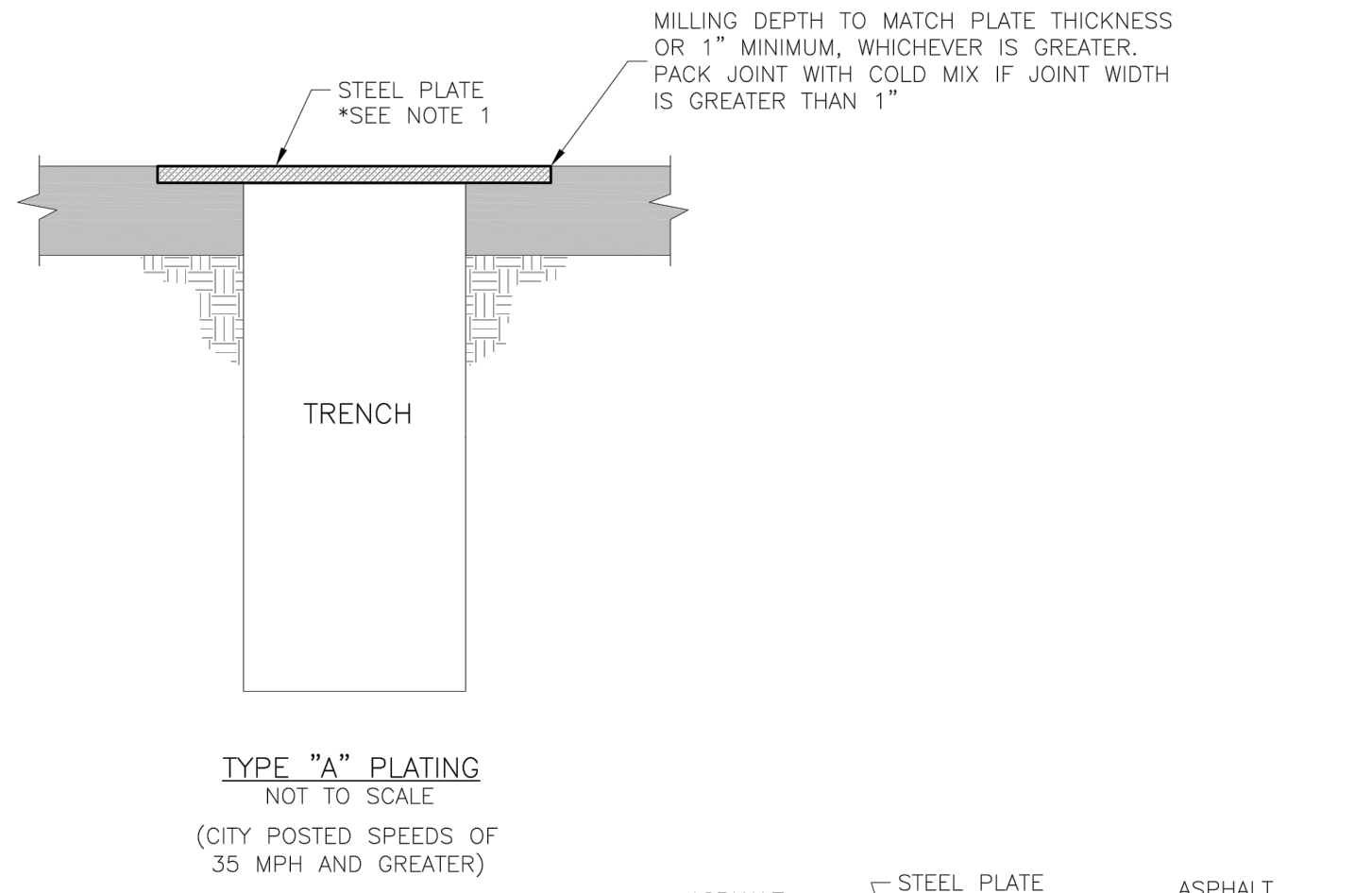
**5**

Mar 08, 2022 -- 1:39pm Plotted By: Eric Byrd V:\028800--John Knox Village Ph 1\04-DWG\Eng\Sheet\PIE\028800--SHTS--MAIN.dwg Layout: DETAILS (2)



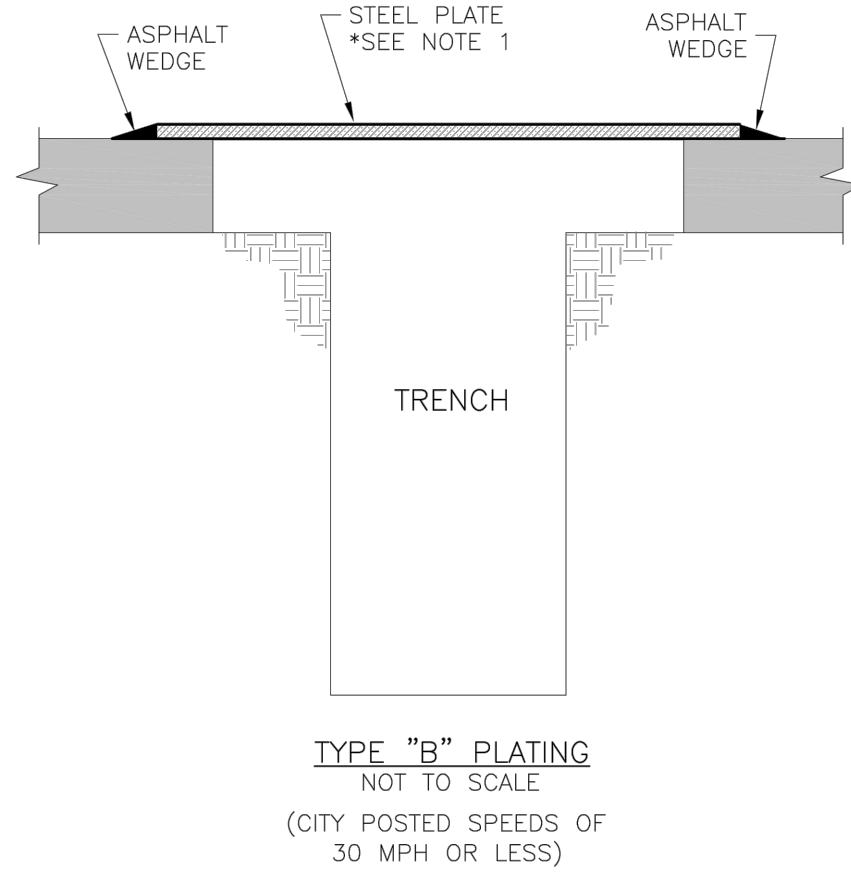
NOTE:  
1. ASPHALT CAP OR FULL DEPTH CONCRETE SHALL BE DETERMINED BY CITY INSPECTOR.

|                                           |                                                                                                                            |                |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|----------------|
| <b>LS</b>                                 | <b>LEE'S SUMMIT</b><br><b>MISSOURI</b><br>PUBLIC WORKS ENGINEERING DIVISION   220 SE GREEN STREET   LEE'S SUMMIT, MO 64063 | Date: 04/17    |
|                                           |                                                                                                                            | Drawn By: MJF  |
|                                           |                                                                                                                            | Checked By: DL |
| <b>TRENCHING/PATCHING ROADWAYS DETAIL</b> |                                                                                                                            | <b>GEN-5</b>   |

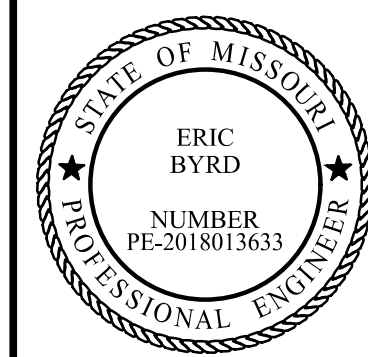


- GENERAL NOTES:
1. THE CONTRACTOR SHALL PROVIDE ADEQUATE OVERLAP OF PLATE ON ASPHALT TO ASSURE NO SLIPPAGE OF PLATE AND NO COLLAPSING OF TRENCH.
  2. ALL PLATES SHALL BE ANCHORED SO PLATES DO NOT MOVE OR SHIFT UNDER TRAFFIC.

|                               |                                                                                                                            |                |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------|----------------|
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|                               |                                                                                                                            | Drawn By: MJF  |
|                               |                                                                                                                            | Checked By: DL |
| <b>TRENCHING PLATE DETAIL</b> |                                                                                                                            | <b>GEN-6</b>   |



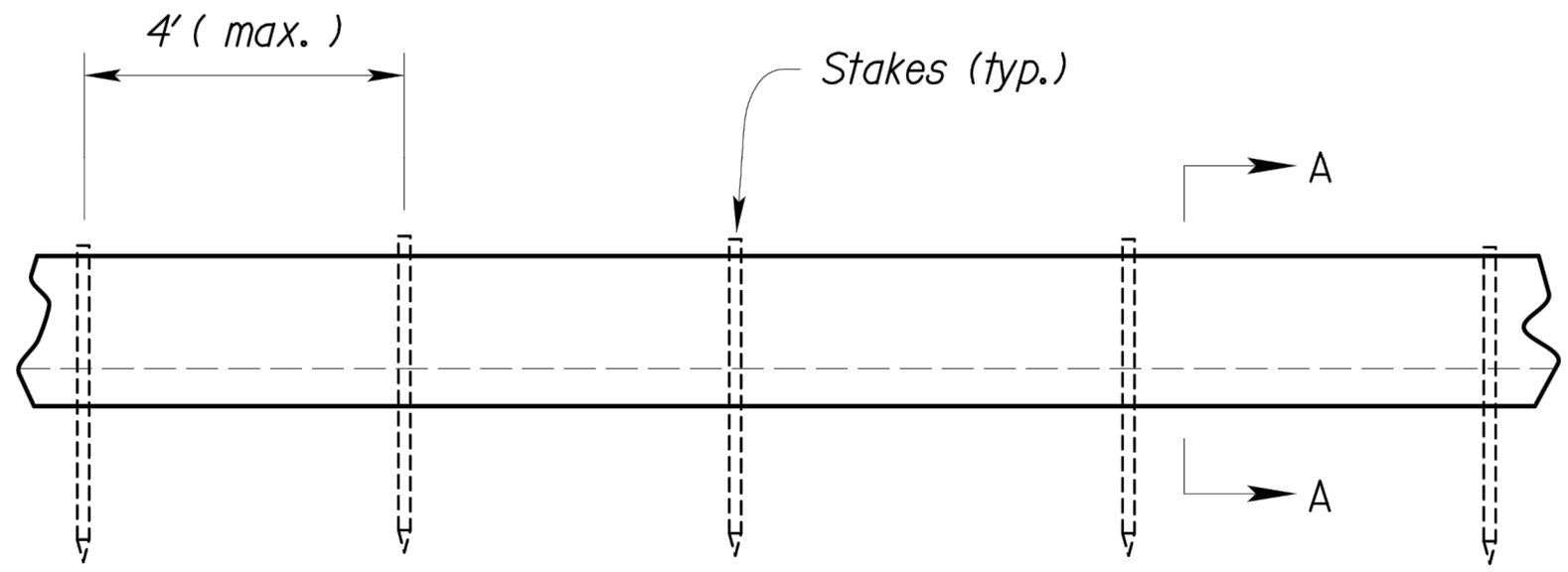
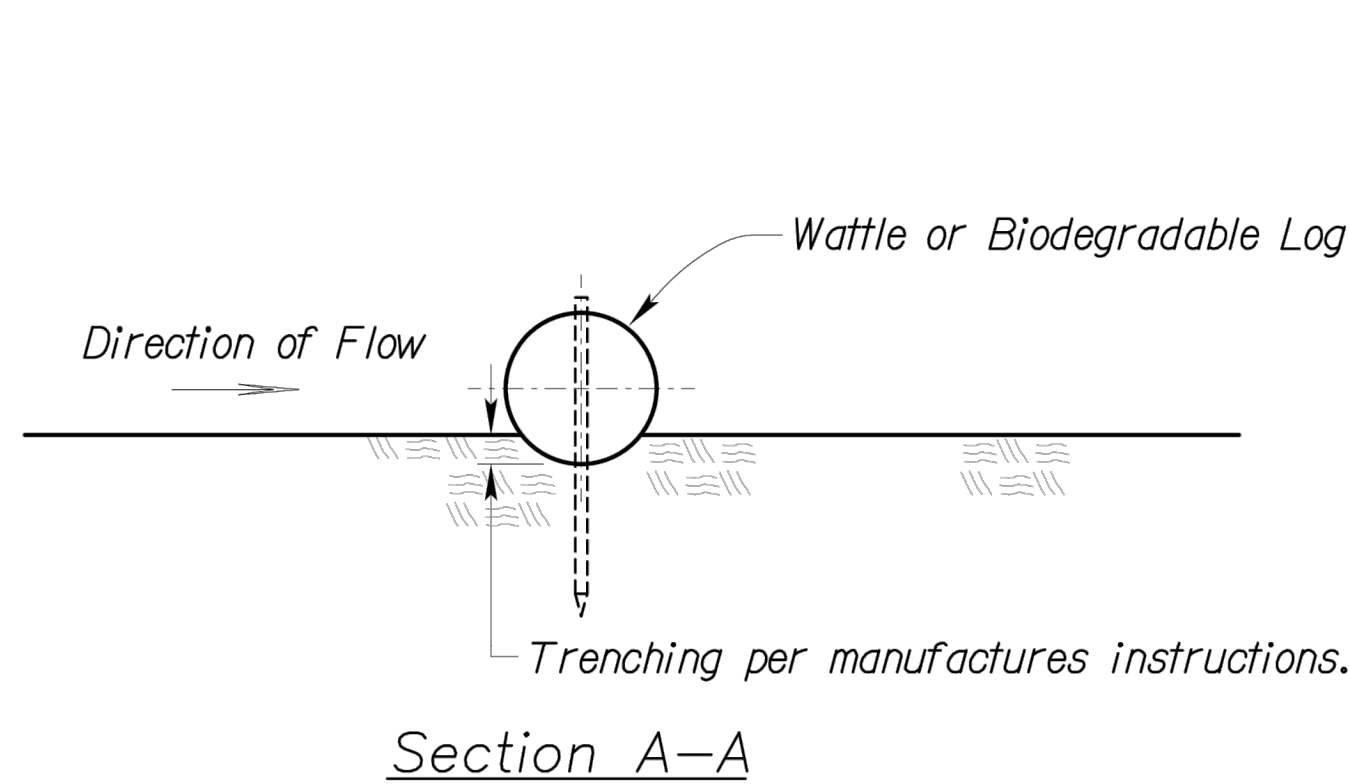
**RECORD  
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**WATER MAIN DETAILS 2**

Design: SKT Drawn: SKT  
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Notes for Wattles and Biodegradable Log Slope Protection:

1. The Slope barriers shall be placed along contour lines, with a short section turned upgrade at each end of the barrier. The maximum length of the slope barrier shall not exceed 250 feet, and the barrier ends need to be staggered.
2. Install wattles and biodegradable logs per manufacturer's instructions.
3. Spacing of stakes per manufacturer's instructions with 4' max. spacing. Length of stakes shall be a minimum of 2 times the diameter of the log with minimum of 24".

|                                                                                       |                                                                       |
|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| <b>AMERICAN PUBLIC WORKS ASSOCIATION</b>                                              |                                                                       |
|  | <b>KANSAS CITY<br/>METRO CHAPTER</b>                                  |
| <b>WATTLES/BIODEGRADABLE LOG<br/>AND<br/>MULCH/COMPOST FILTER BERM</b>                | <b>STANDARD DRAWING<br/>NUMBER ESC-04<br/>ADOPTED:<br/>10/24/2016</b> |