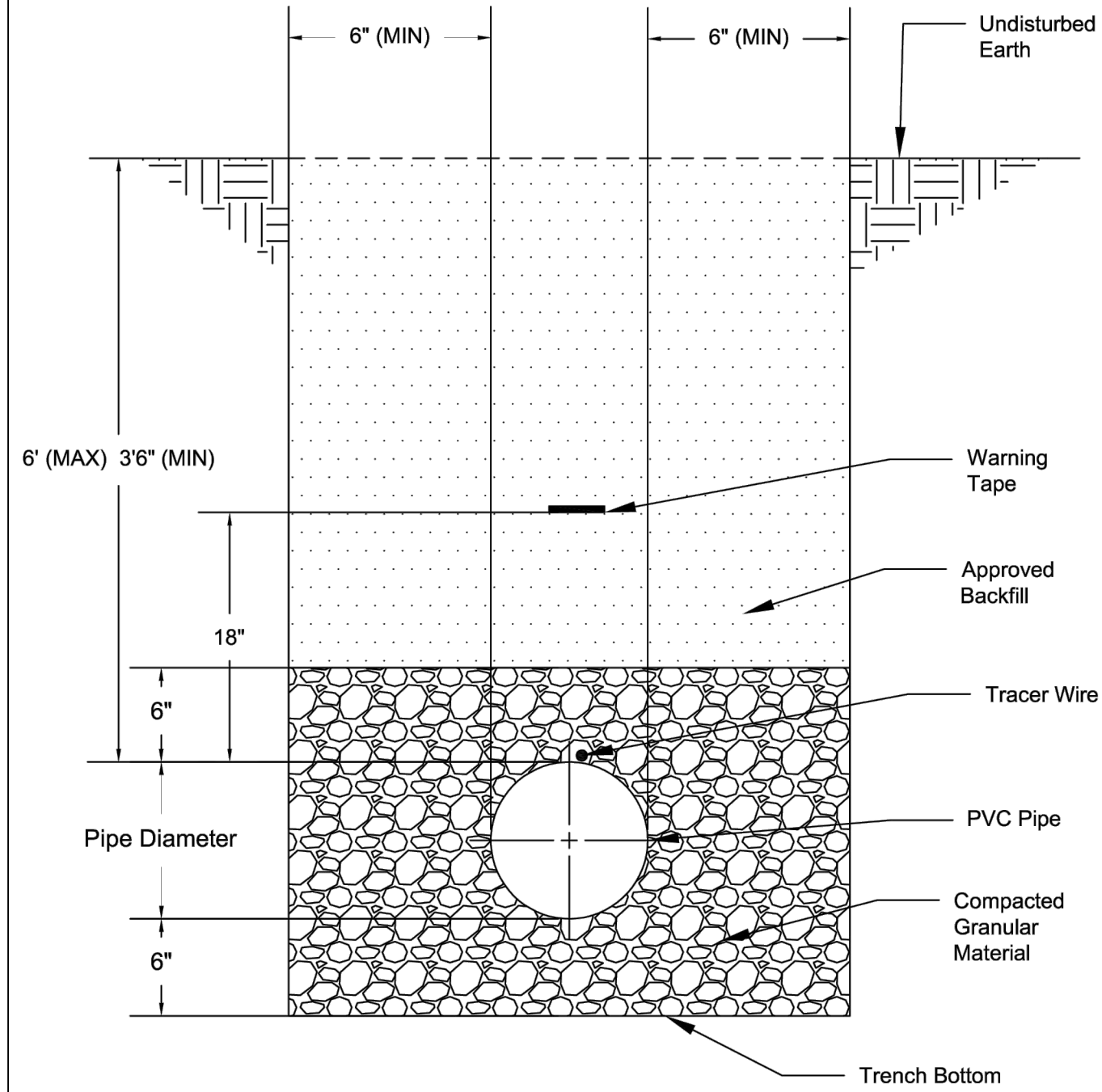
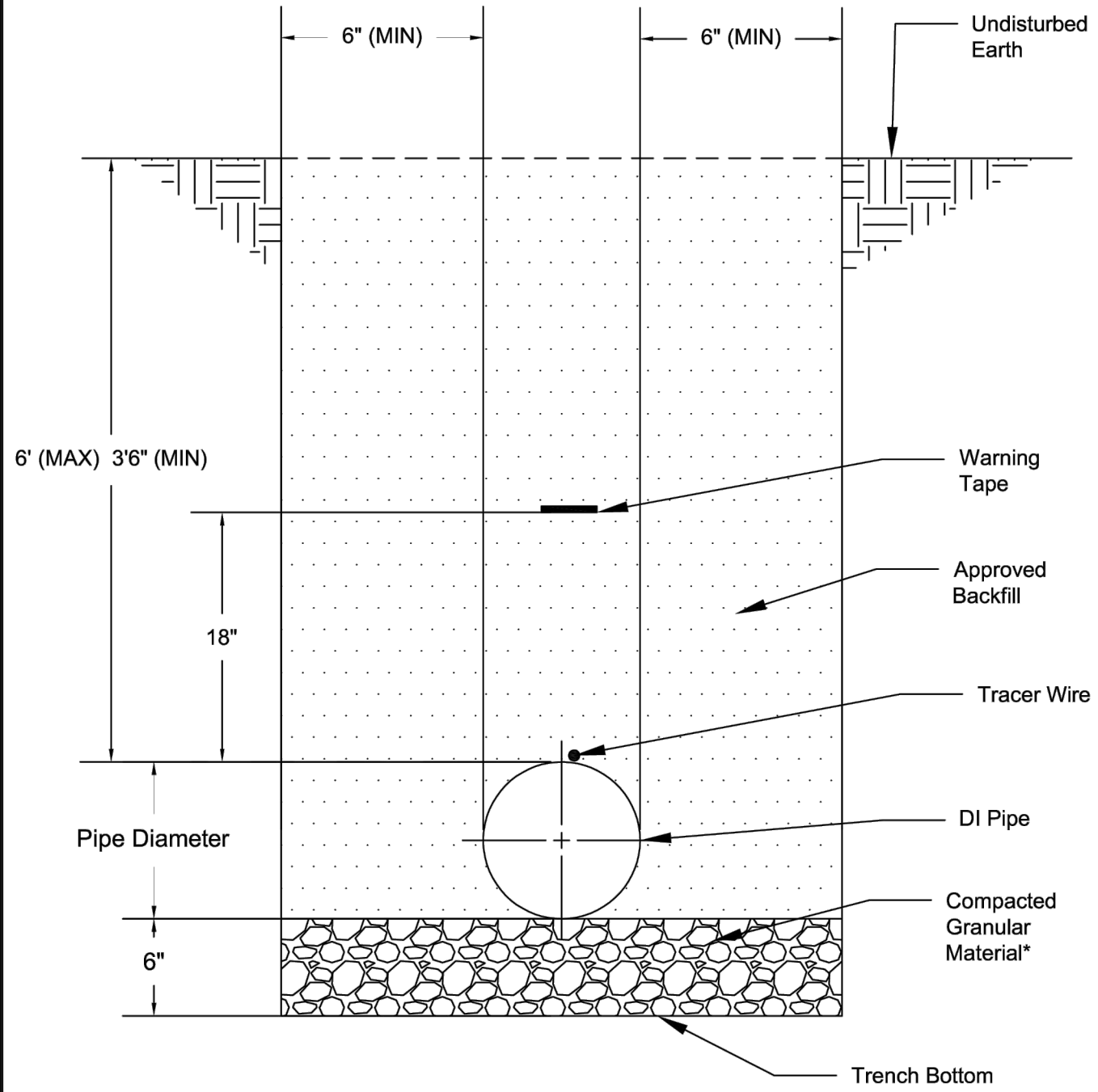


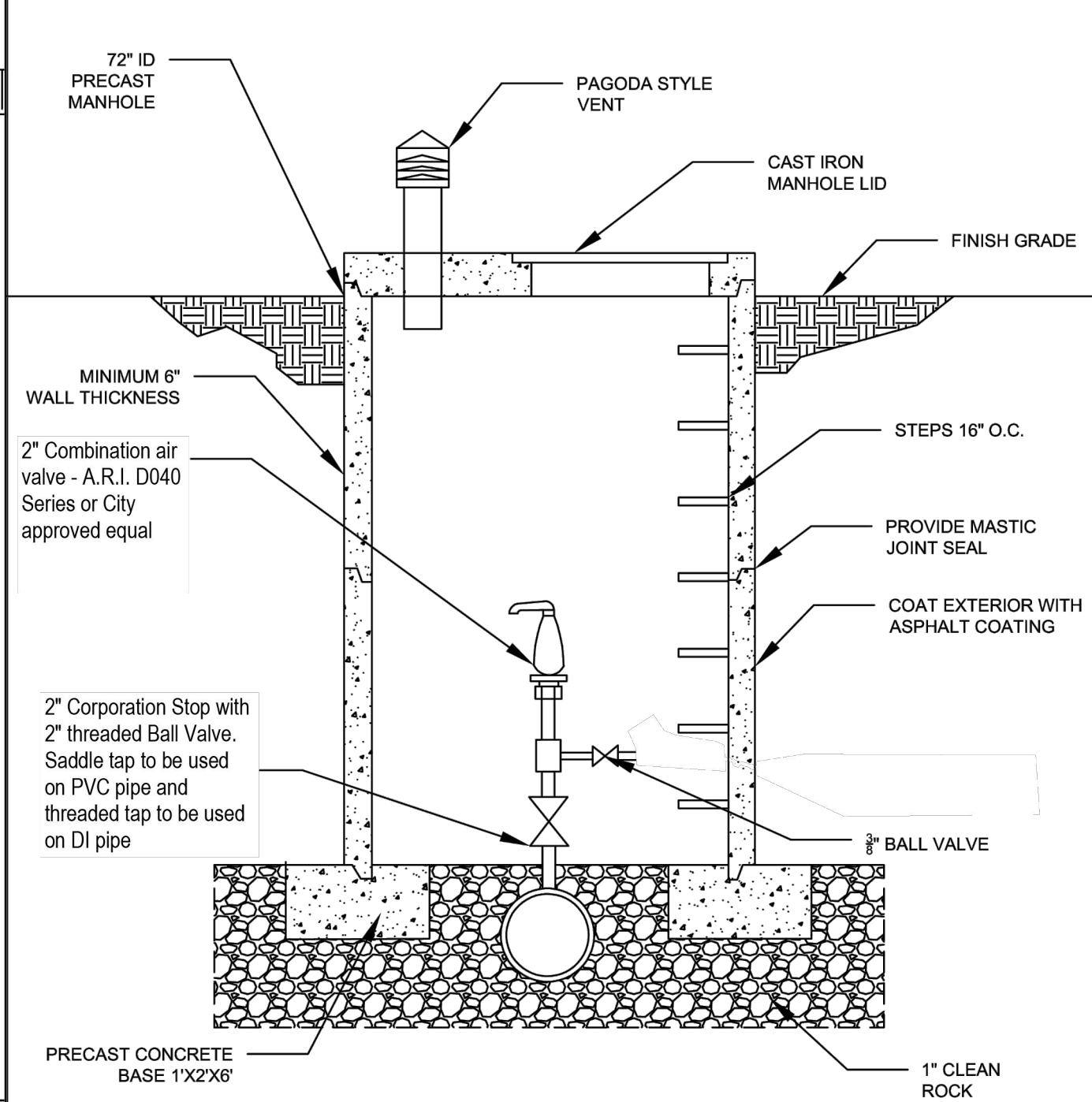
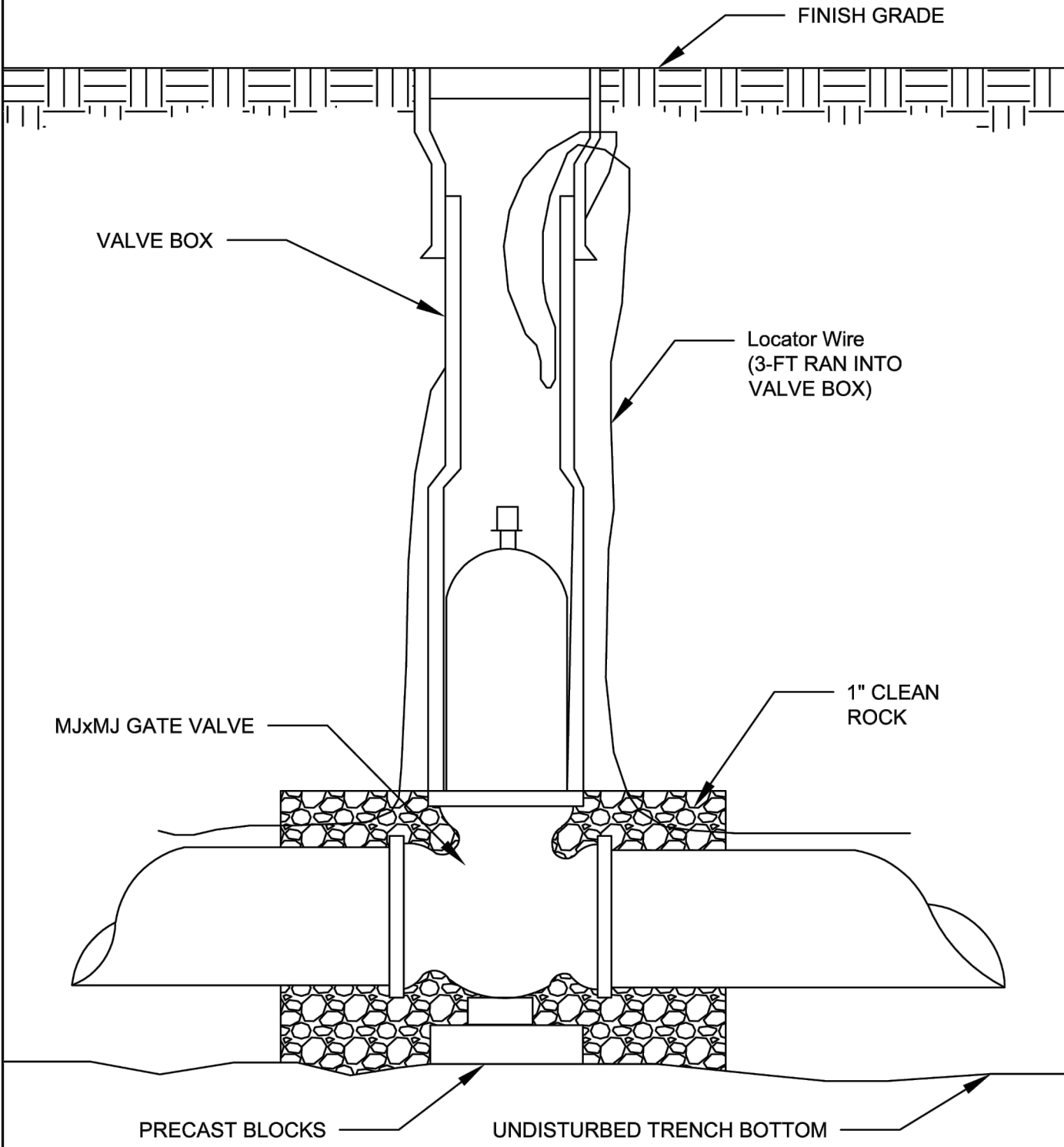
EXHIBIT B



When soil conditions are suitable, an exception can be made on the compacted granular material requirement to use compacted soil backfill in lieu thereof. This exception must be approved in writing by the City's Project Engineer.



\* Compacted Granular Material is required if earth trench bottom contains unsuitable material. The City's Project Engineer will determine the suitability of the trench bottom material



NOTES:  
1. AIR RELEASE VALVE SHALL BE PLACED A MINIMUM OF 18" FROM ALL VAULT WALLS.



### TYPICAL TRENCH - PVC

Detail A.1  
Originally Drafted: 10/16/19  
Revision Date:  
Designed By: KMH  
Drafted By: KMH



### TYPICAL TRENCH - DIP

Detail A.2  
Originally Drafted: 10/16/19  
Revision Date:  
Designed By: KMH  
Drafted By: KMH



### GATE VALVE

Detail C.1  
Originally Drafted: 10/18/19  
Revision Date:  
Designed By: KMH  
Drafted By: KMH

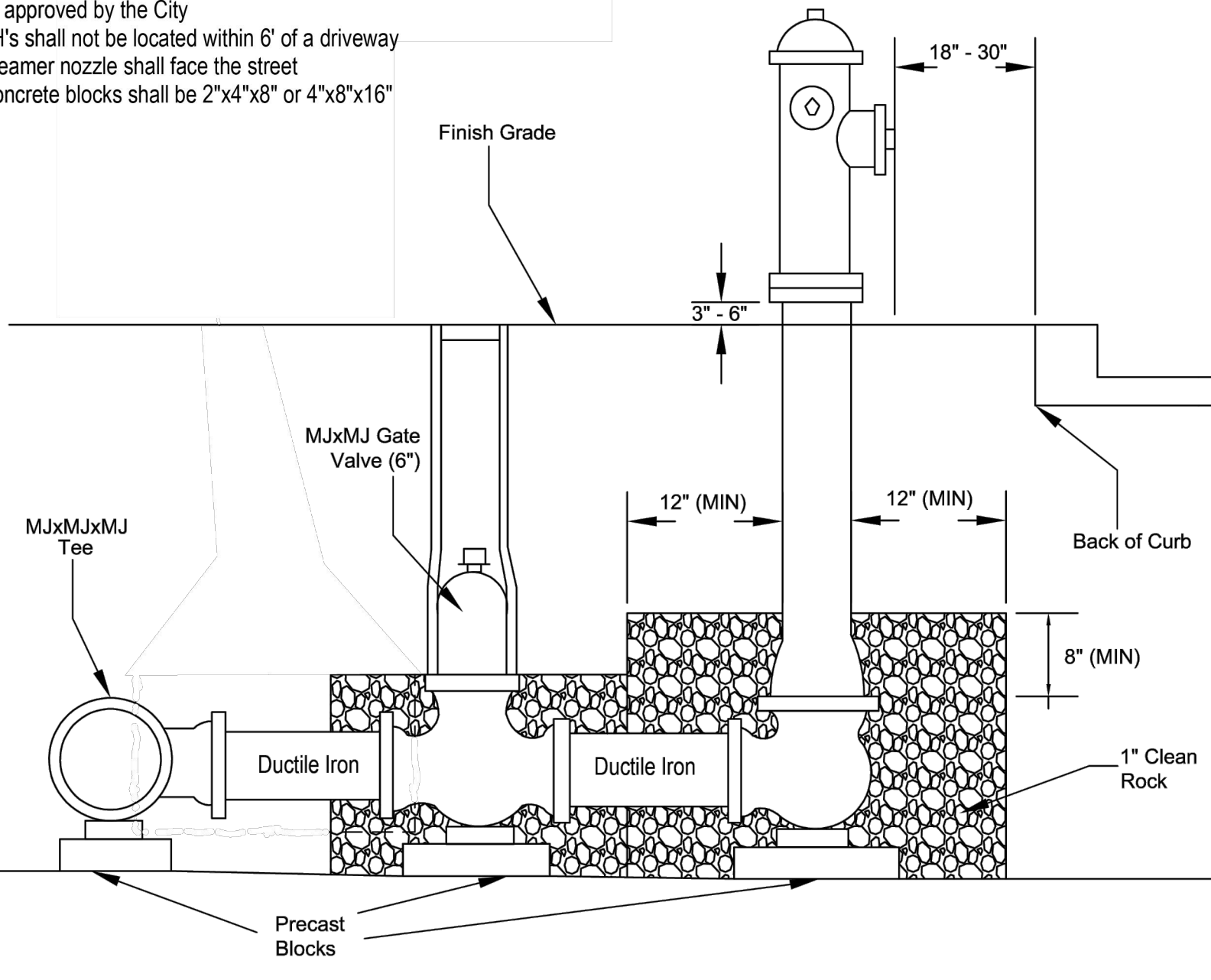


### AIR RELEASE VALVE

Detail C.2  
Originally Drafted: 10/22/19  
Revision Date:  
Designed By: KMH  
Drafted By: KMH

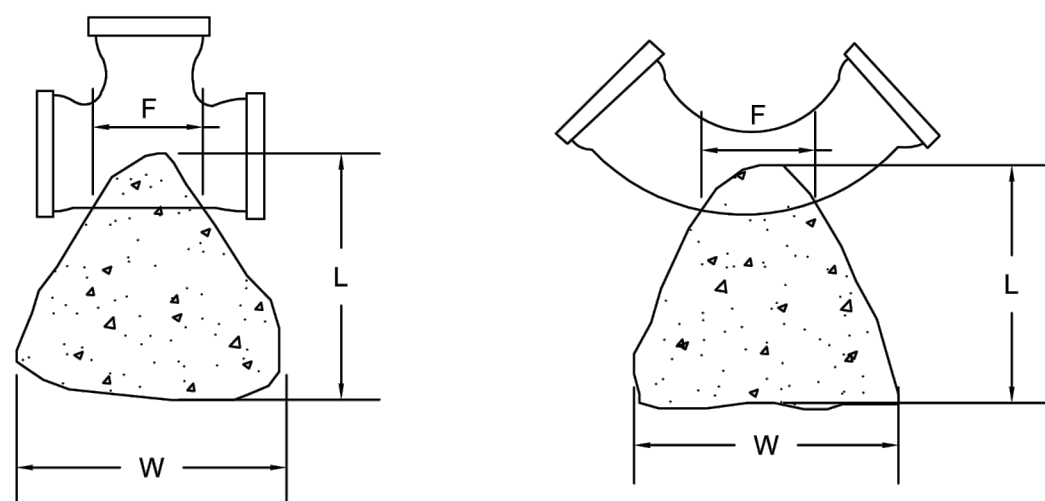


Notes:  
- All joints shall be restrained mechanical joint fittings as approved by the City  
- FH's shall not be located within 6' of a driveway  
- Steamer nozzle shall face the street  
- Concrete blocks shall be 2"x4"x8" or 4"x8"x16"



### FIRE HYDRANT

Detail B.1  
Originally Drafted: 10/17/19  
Revision Date:  
Designed By: KMH  
Drafted By: KMH



L = LENGTH OF THRUST BLOCK  
W = WIDTH OF THRUST BLOCK  
H = HEIGHT OF THRUST BLOCK  
F = WIDTH OF THRUST BLOCK

| Pipe Diameter | THRUST BLOCK DIMENSIONS (MEASUREMENTS IN INCHES) |    |             |    |           |    |           |    |             |    |              |    |
|---------------|--------------------------------------------------|----|-------------|----|-----------|----|-----------|----|-------------|----|--------------|----|
|               | ALL FITTINGS                                     |    | TEES & TAPS |    | 90 DEGREE |    | 45 DEGREE |    | 22.5 DEGREE |    | 11.25 DEGREE |    |
|               | F                                                | L  | W           | H  | W         | H  | W         | H  | W           | H  | W            | H  |
| 6             | 6                                                | 16 | 36          | 18 | 48        | 24 | 26        | 24 | 26          | 12 | 13           | 12 |
| 8             | 8                                                | 20 | 45          | 24 | 54        | 36 | 45        | 24 | 30          | 18 | 24           | 12 |
| 10            | 10                                               | 20 | 56          | 30 | 82        | 36 | 45        | 36 | 36          | 24 | 24           | 18 |
| 12            | 12                                               | 24 | 68          | 36 | 100       | 42 | 64        | 36 | 40          | 30 | 24           | 24 |

NOTES  
1. ALL THRUST BLOCKS ARE TO BE POURED AGAINST VIRGIN SOIL.  
2. THRUST BLOCKS FOR FITTING EXCEEDING 12" SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MISSOURI.

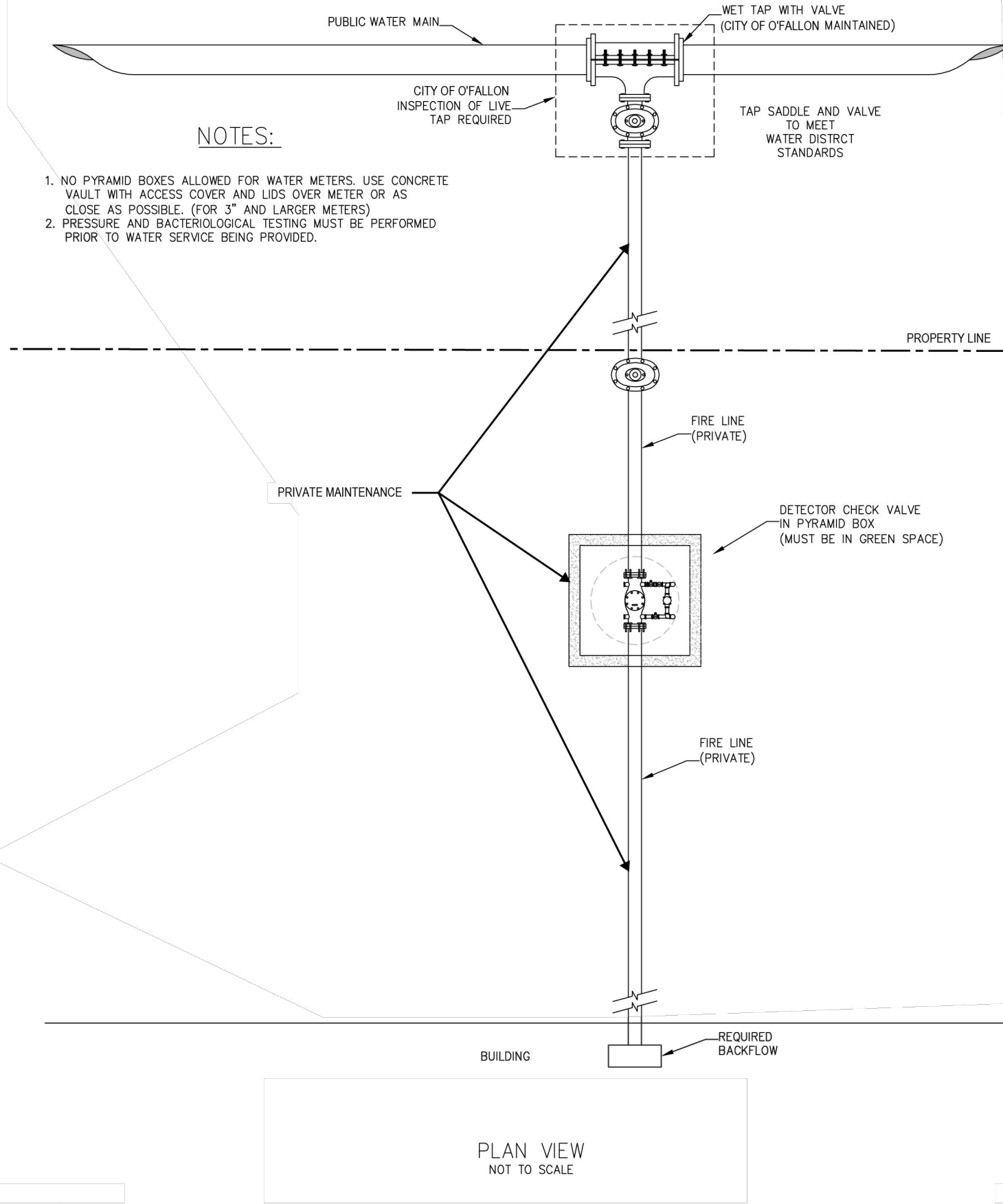


### THRUST BLOCKING

Detail D.1  
Originally Drafted: 10/18/19  
Revision Date:  
Designed By: KMH  
Drafted By: KMH



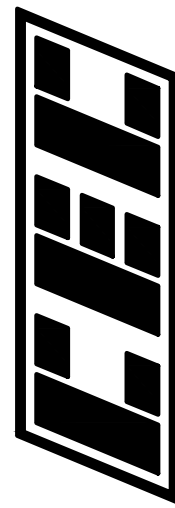
### CITY OF O'FALLON, MISSOURI TYPICAL INTERIOR FIRE LINE CONNECTION



NOTES:  
1. NO PYRAMID BOXES ALLOWED FOR WATER METERS. USE CONCRETE VAULT WITH ACCESS COVER AND LIDS OVER METER OR AS CLOSE AS POSSIBLE. (FOR 3" AND LARGER METERS)  
2. PRESSURE AND BACTERIOLOGICAL TESTING MUST BE PERFORMED PRIOR TO WATER SERVICE BEING PROVIDED.

### McDONALD'S CONSTRUCTION PLAN

A TRACT OF LAND BEING LOT 4 OF "BRYAN ROAD COMMERCIAL, PLAT 1" RECORDED AS DOCUMENT 2023R-038185 IN THE ST CHARLES COUNTY RECORDS, BEING IN THE SOUTHWEST QUARTER OF FRACTIONAL SECTION 30, TOWNSHIP 47 NORTH, RANGE 3 EAST OF THE FIFTH PRINCIPAL MERIDIAN, CITY OF OFALLON, ST. CHARLES COUNTY, MISSOURI



**Civil & Environmental Consultants, Inc.**  
3000 Little Hills Expressway, Suite 102  
St. Charles, MO 63301  
314-656-4566 · 866-250-3679  
www.cecinc.com



PATRICK T. BENNETT  
(MO PE# 2002003134)  
PROFESSIONAL CIVIL ENGINEER  
\*HAND SIGNATURE ON FILE

| ML        | QAS         | FTB          | 338-366     |
|-----------|-------------|--------------|-------------|
| DRAWN BY: | CHECKED BY: | APPROVED BY: | PROJECT NO: |

Developer / Owner Information

McDONALD'S RESTAURANT  
NSN 43008 (024-1305)  
962 BRYAN ROAD  
O'FALLON, MISSOURI



### CITY OF OFALLON DETAILS

P+Z No. 24-001803  
Approval Date 04/08/2024  
Permit No.

Page No.  
**C807**