

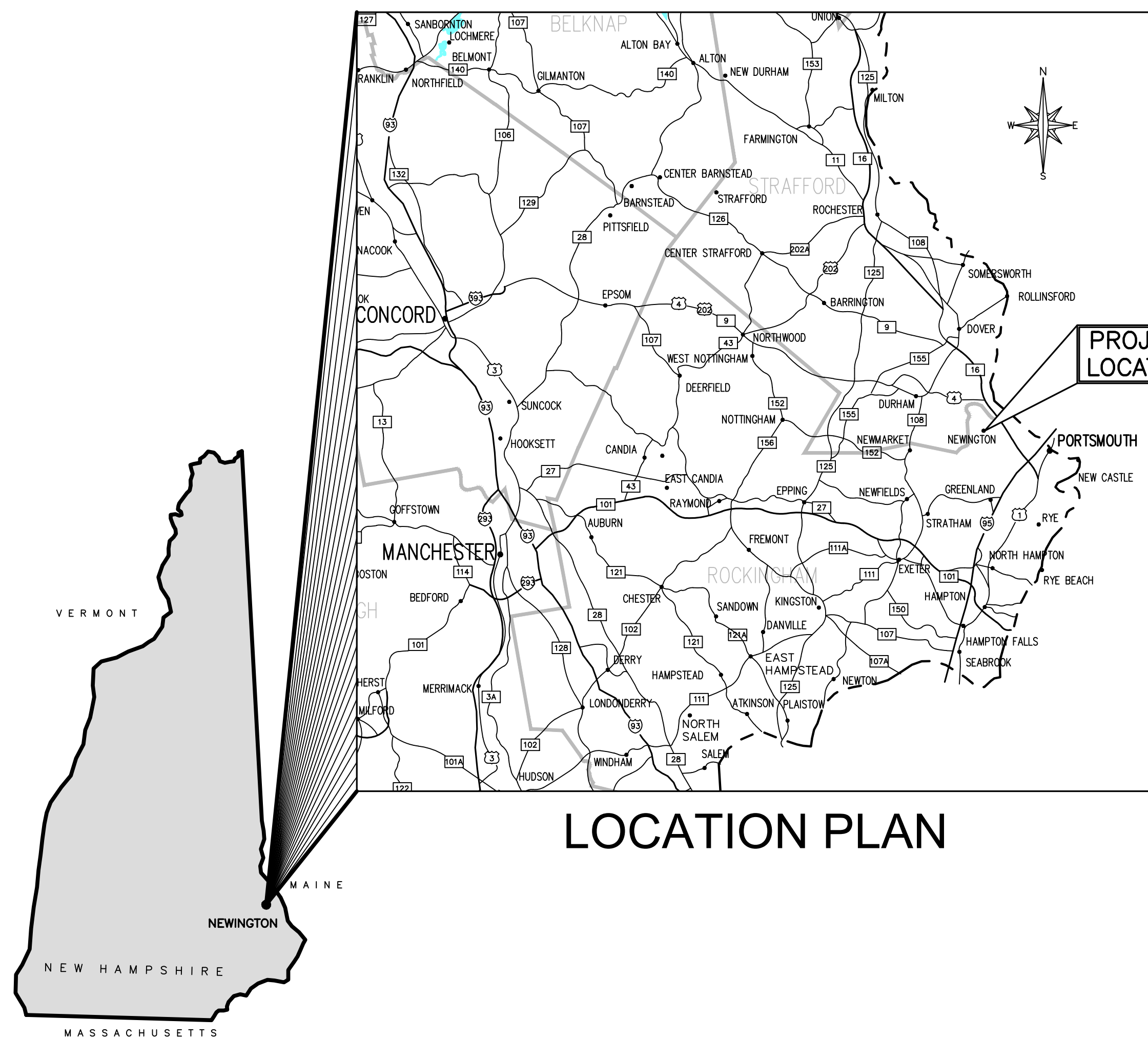
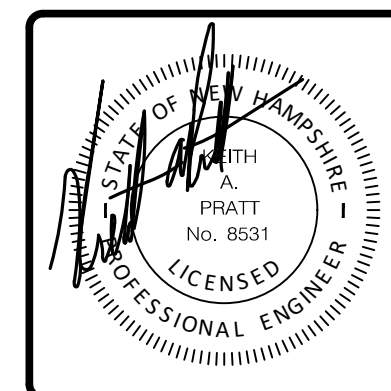
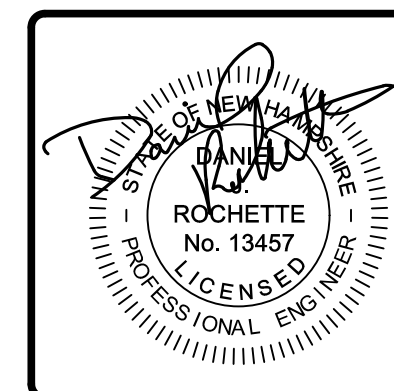
# City of Portsmouth, New Hampshire

For Construction

## LITTLE BAY ROAD WATER IMPROVEMENTS NEWINGTON, NH



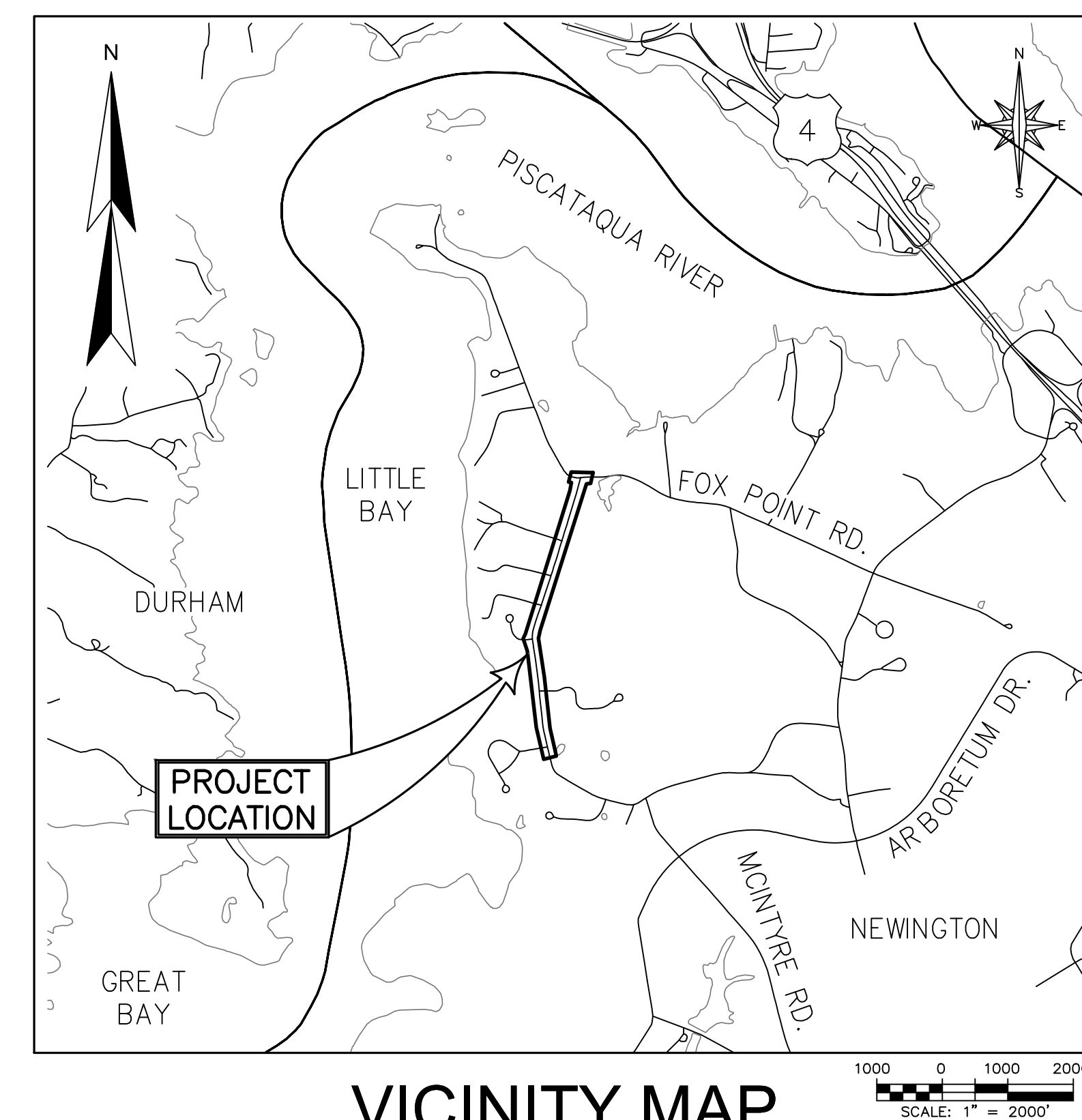
PREPARED BY  
UNDERWOOD ENGINEERS, INC.  
PORTSMOUTH, NEW HAMPSHIRE  
AUGUST 28, 2024



PROJECT LOCATION

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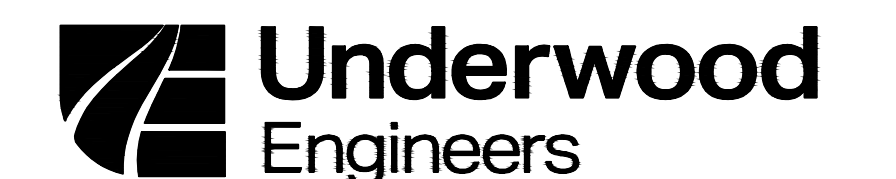
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|-------------------------|--------|-------|
| COVER                   | -      | 1     |
| GENERAL NOTES           | G1     | 2     |
| ABBREVIATIONS & LEGEND  | G2     | 3     |
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PROJECT LOCATION

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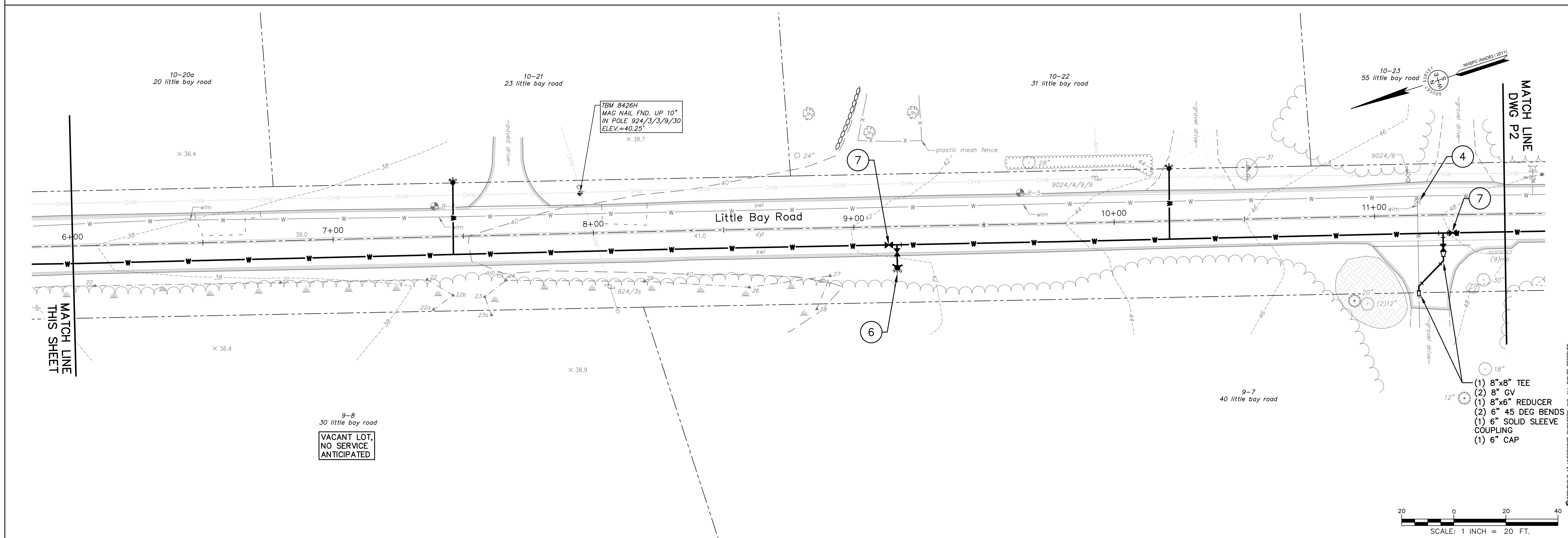
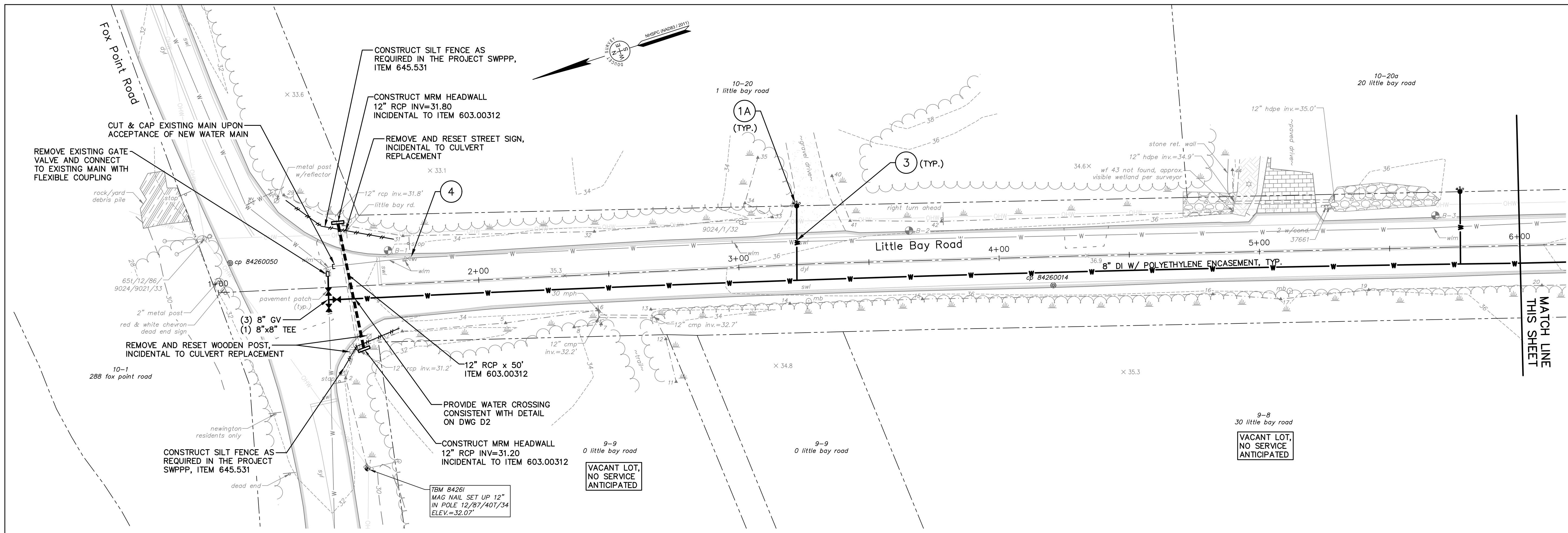
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| APPROVAL       | 8-1-24  | By       |      |    |
| CONSTRUCTION   | 8-28-24 | By       |      |    |
| RECORD DRAWING |         | By       |      |    |

| NO. | REVISIONS | DATE | BY |
|-----|-----------|------|----|
|     |           |      |    |

| Drawn/Chk. | Desig. | Appr. | Book No. | Project No. | Dwg. ID | Scale    |
|------------|--------|-------|----------|-------------|---------|----------|
|            |        |       | 8/28/24  | 3025        | Phase   | AS SHOWN |

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 No. 8831  
 License No. 13457

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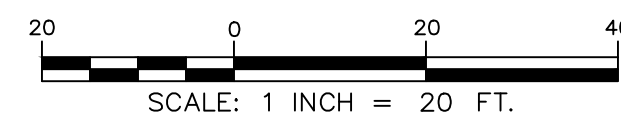
**Underwood Engineers**  
 25 Vaughan Mall, Portsmouth, N.H. 03801  
 Tel. 603-436-6192 Fax. 603-431-4733

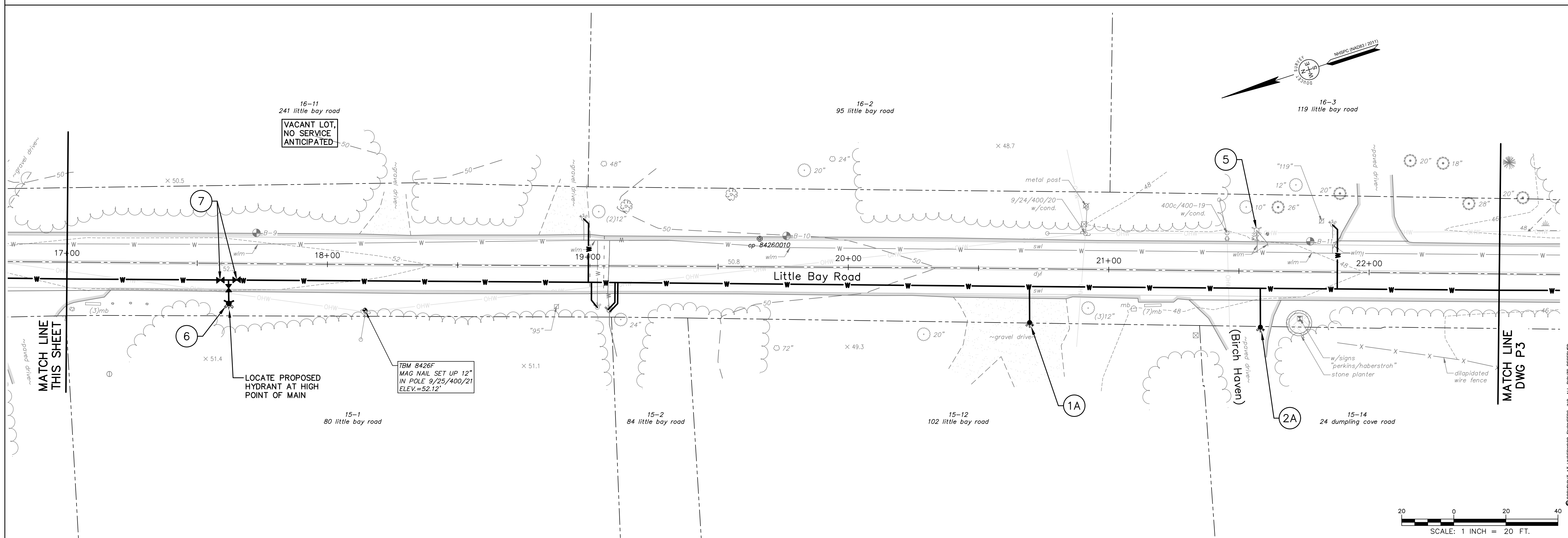
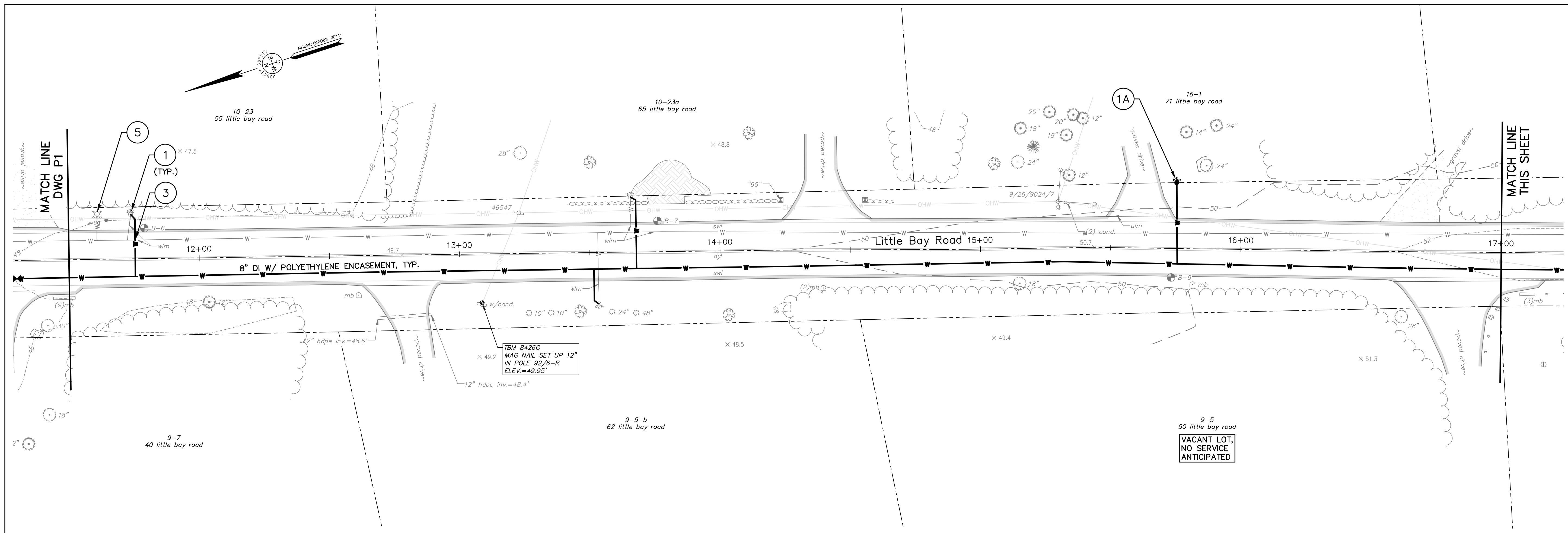
**LITTLE BAY ROAD**  
**LITTLE BAY ROAD WATER IMPROVEMENTS**  
**CITY OF PORTSMOUTH**  
**PORTSMOUTH, NEW HAMPSHIRE**

|        |         |
|--------|---------|
| DWG NO | P1      |
| SHEET  | 4 OF 10 |



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| APPROVAL       | 8-1-24   | 8-1-24  | By D.R. |
| CONSTRUCTION   | 8-28-24  | 8-28-24 | By D.R. |
| RECORD DRAWING |          |         | By      |

| NO. | REVISIONS | DATE |
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| Drawn/Chk.  | RMG        | DIR |
|-------------|------------|-----|
| Designed    |            |     |
| Checked     |            |     |
| Approved    |            |     |
| Date        | 8/28/24    |     |
| Book No.    |            |     |
| Project No. | 3025-Phase |     |
| Dwg. ID     | 3025-Phase |     |
| Scale       | AS SHOWN   |     |

| PROFESSIONAL ENGINEER                               |
|---|
| PRATT<br>No. 8831<br>LICENSED PROFESSIONAL ENGINEER |

| PROFESSIONAL ENGINEER                                   |
|---|
| ROCHETTE<br>No. 13457<br>LICENSED PROFESSIONAL ENGINEER |

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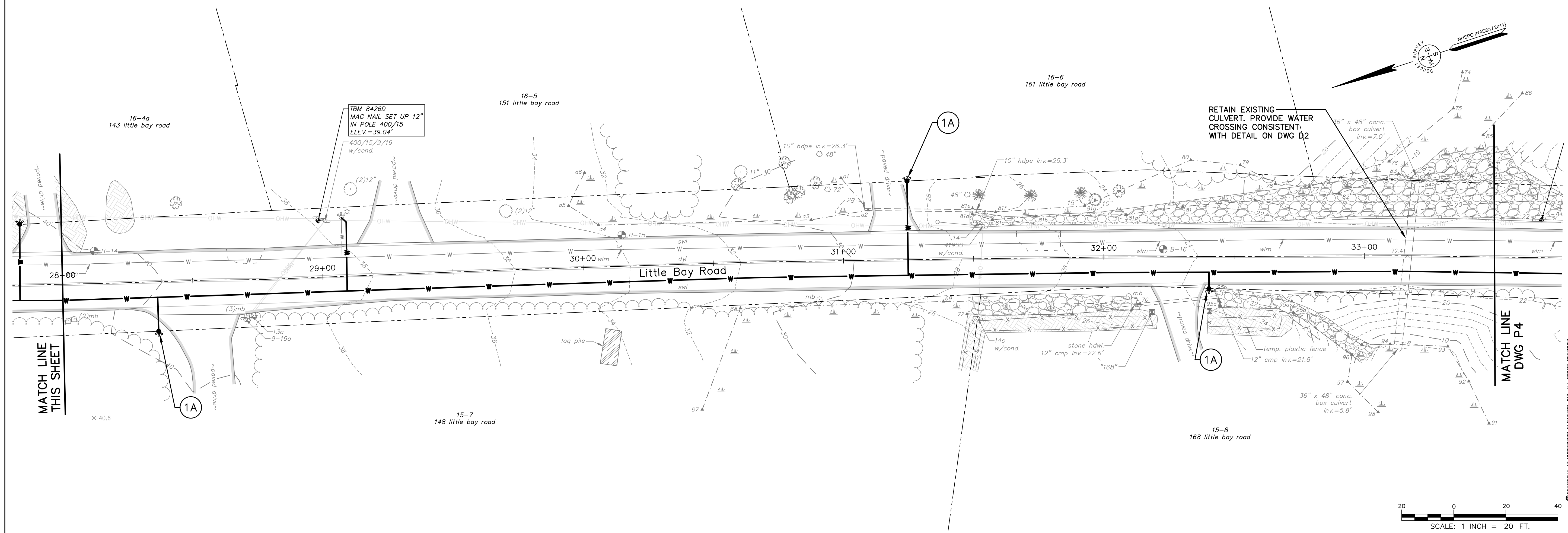
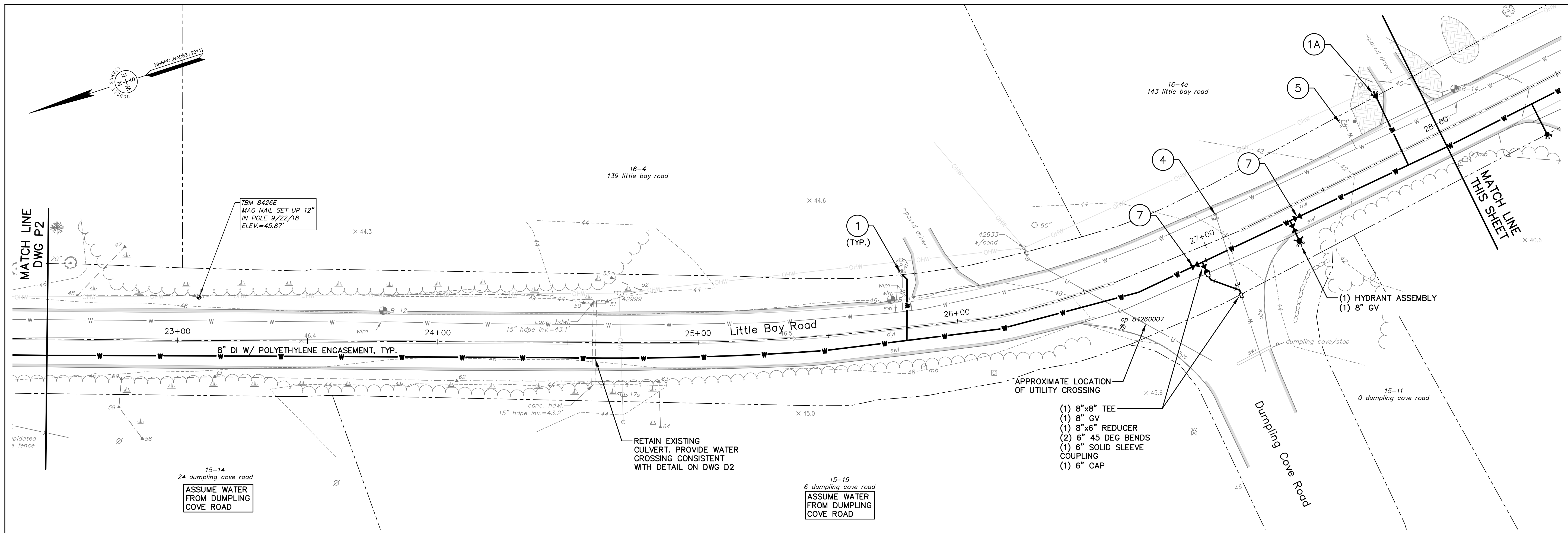
**LITTLE BAY ROAD**  
**LITTLE BAY ROAD**  
**WATER IMPROVEMENTS**  
**CITY OF PORTSMOUTH**  
**PORTSMOUTH, NEW HAMPSHIRE**

|              |                  |
|--------------|------------------|
| DWG NO<br>P2 | SHEET<br>5 OF 10 |
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| Drawn/Chk.  | RMG        | Scale | AS SHOWN |
| Designed    | DJR        |       |          |
| Checked     | DJR        |       |          |
| Approved    | DJR        |       |          |
| Date        | 8/28/24    |       |          |
| Book No.    | No. 8831   |       |          |
| Project No. | 3025       |       |          |
| Dwg. ID     | 3025-Phase |       |          |

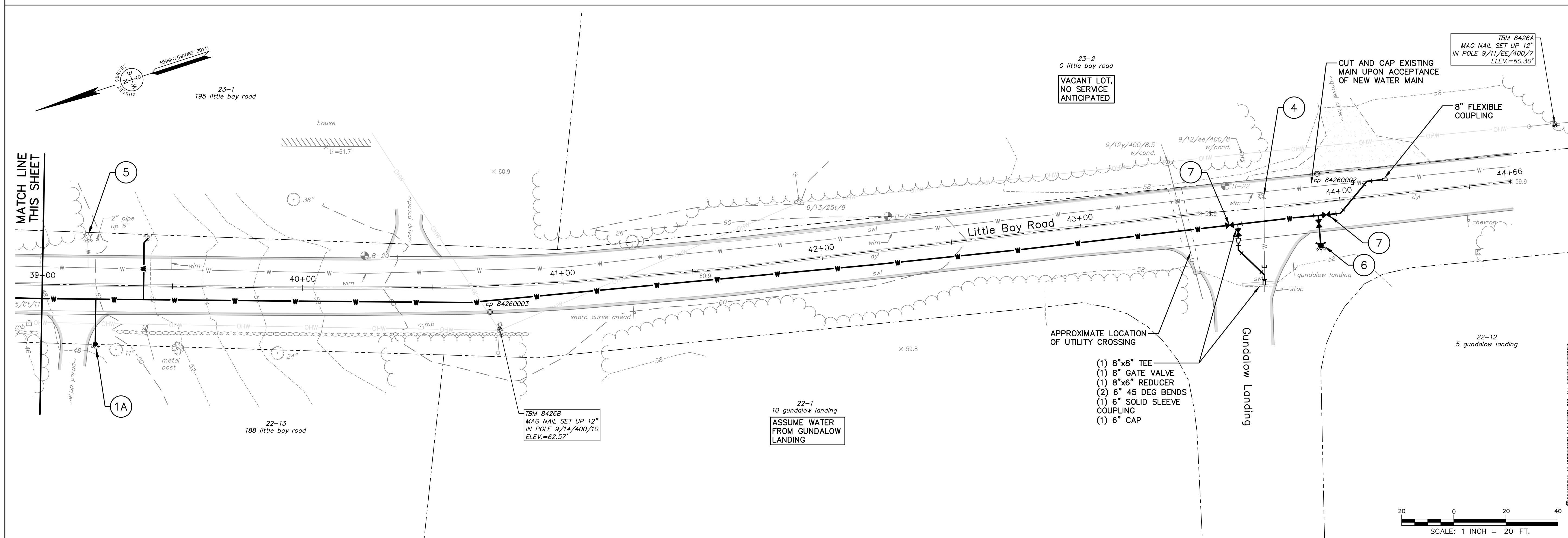
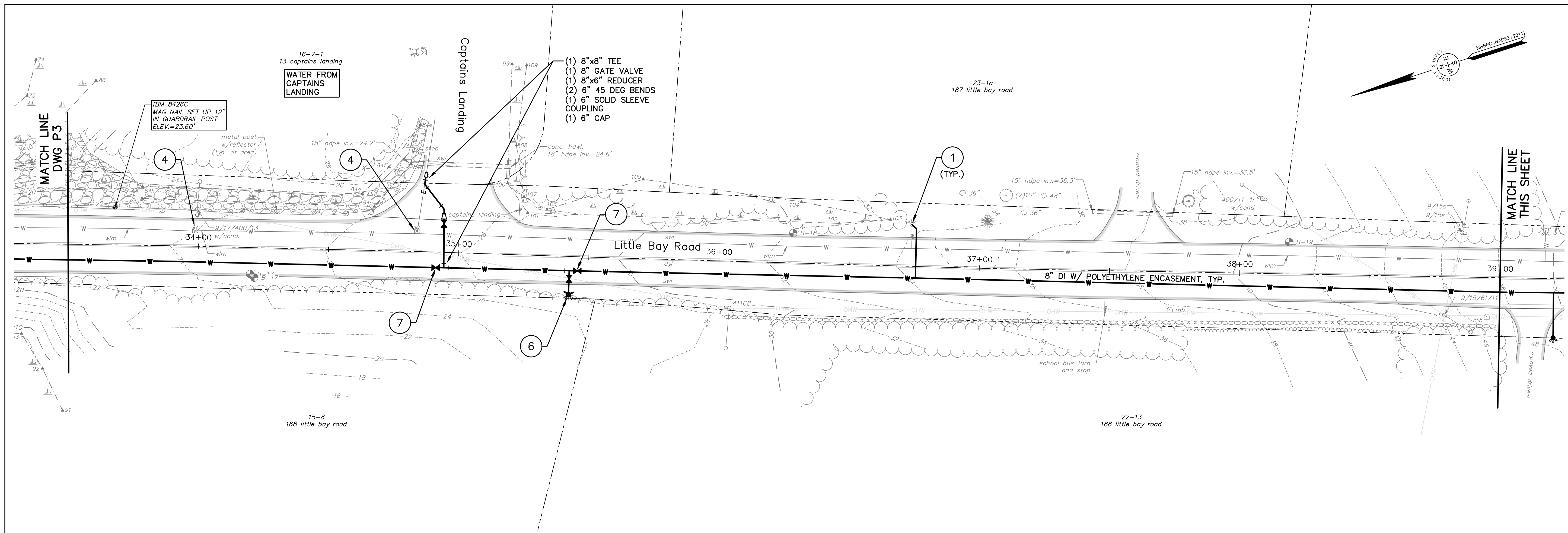
  

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**LITTLE BAY ROAD**  
**LITTLE BAY ROAD**  
**WATER IMPROVEMENTS**  
**CITY OF PORTSMOUTH**  
**PORTSMOUTH, NEW HAMPSHIRE**

DWG NO. P3 SHEET 6 OF 10

SCALE: 1 INCH = 20 FT.



| ISSUE FOR      | APPROVAL | DATE    | BY  |
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| CONSTRUCTION   |          | 8-28-24 | By  |
| RECORD DRAWING |          |         | By  |

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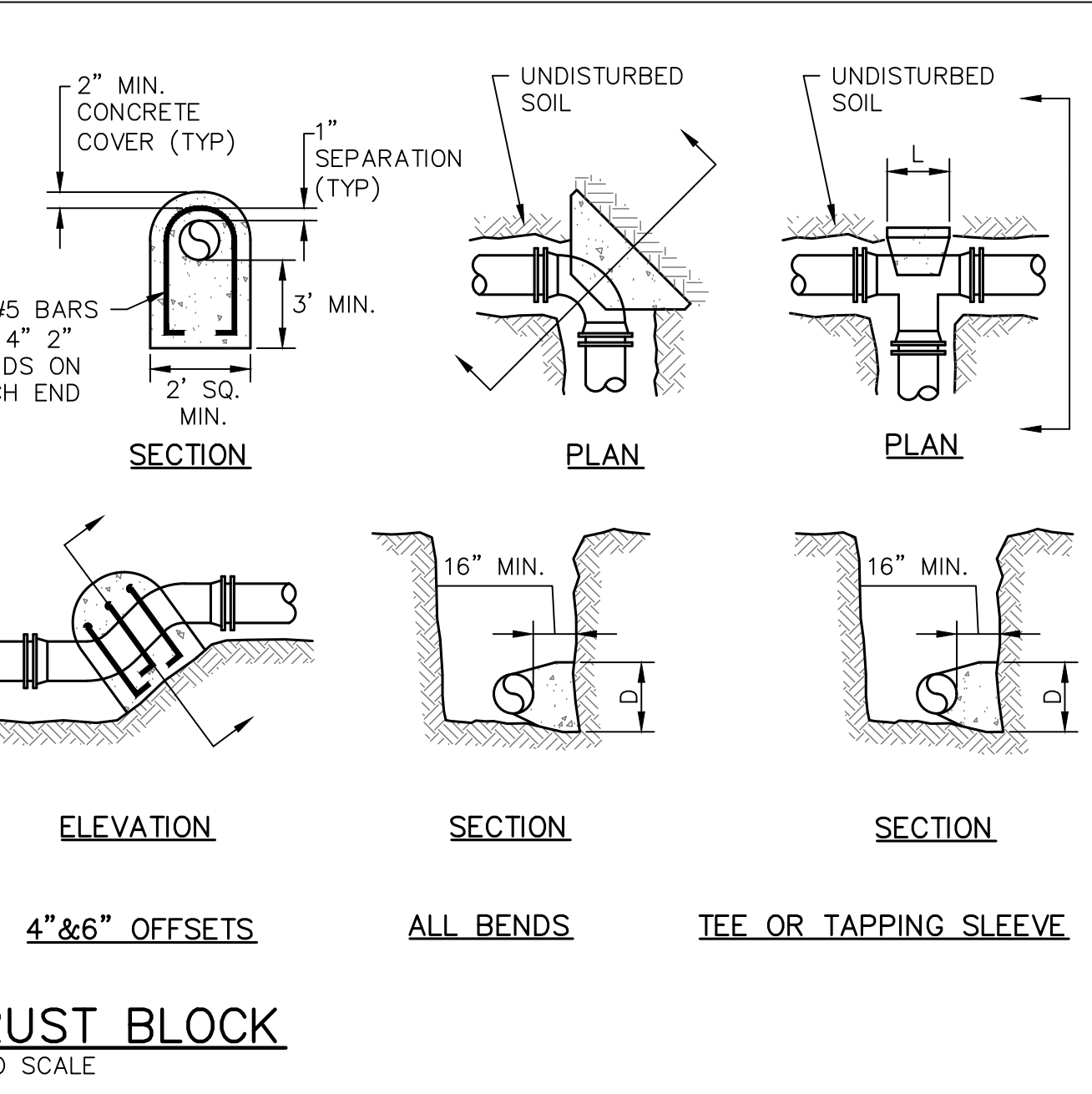
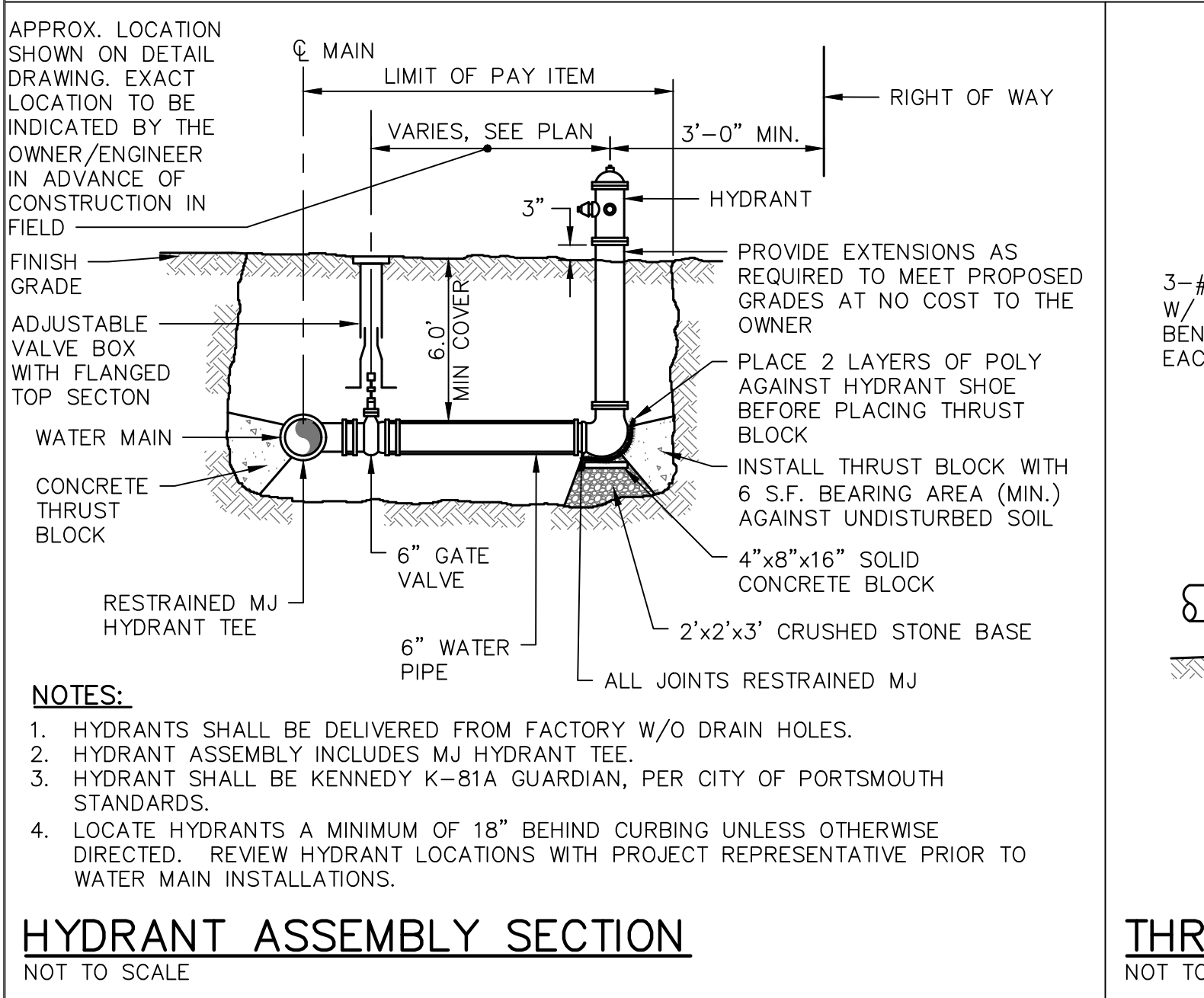
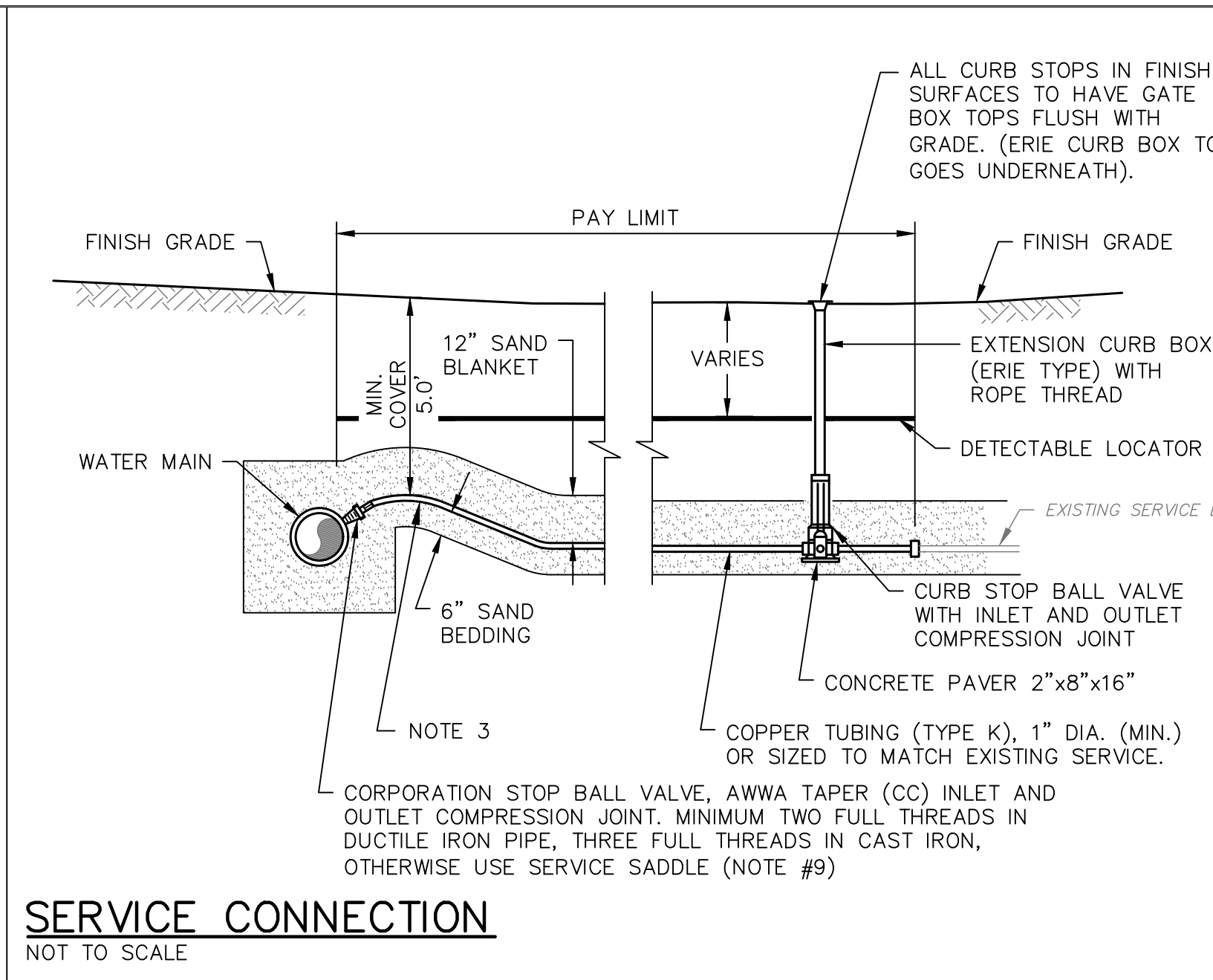
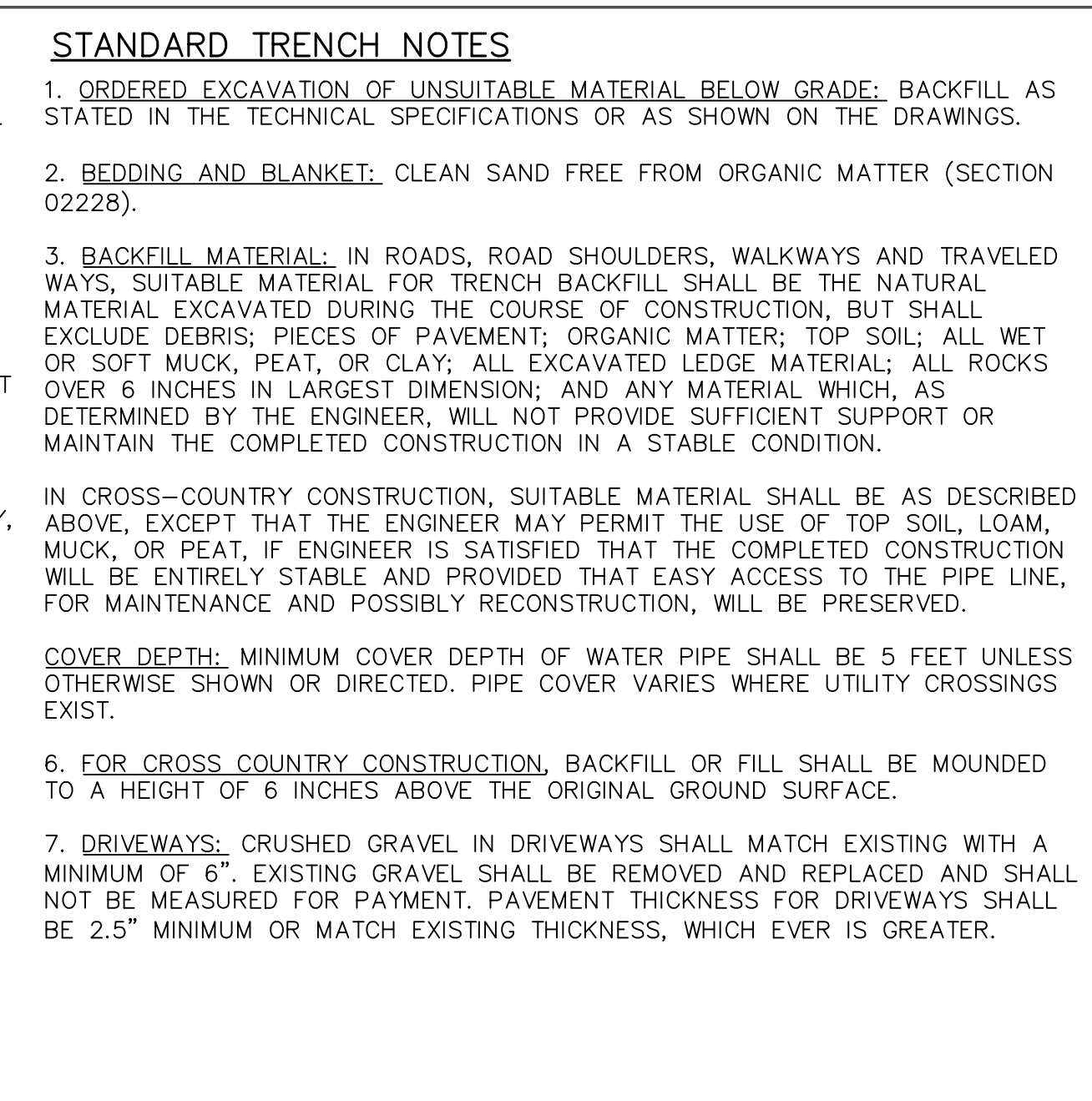
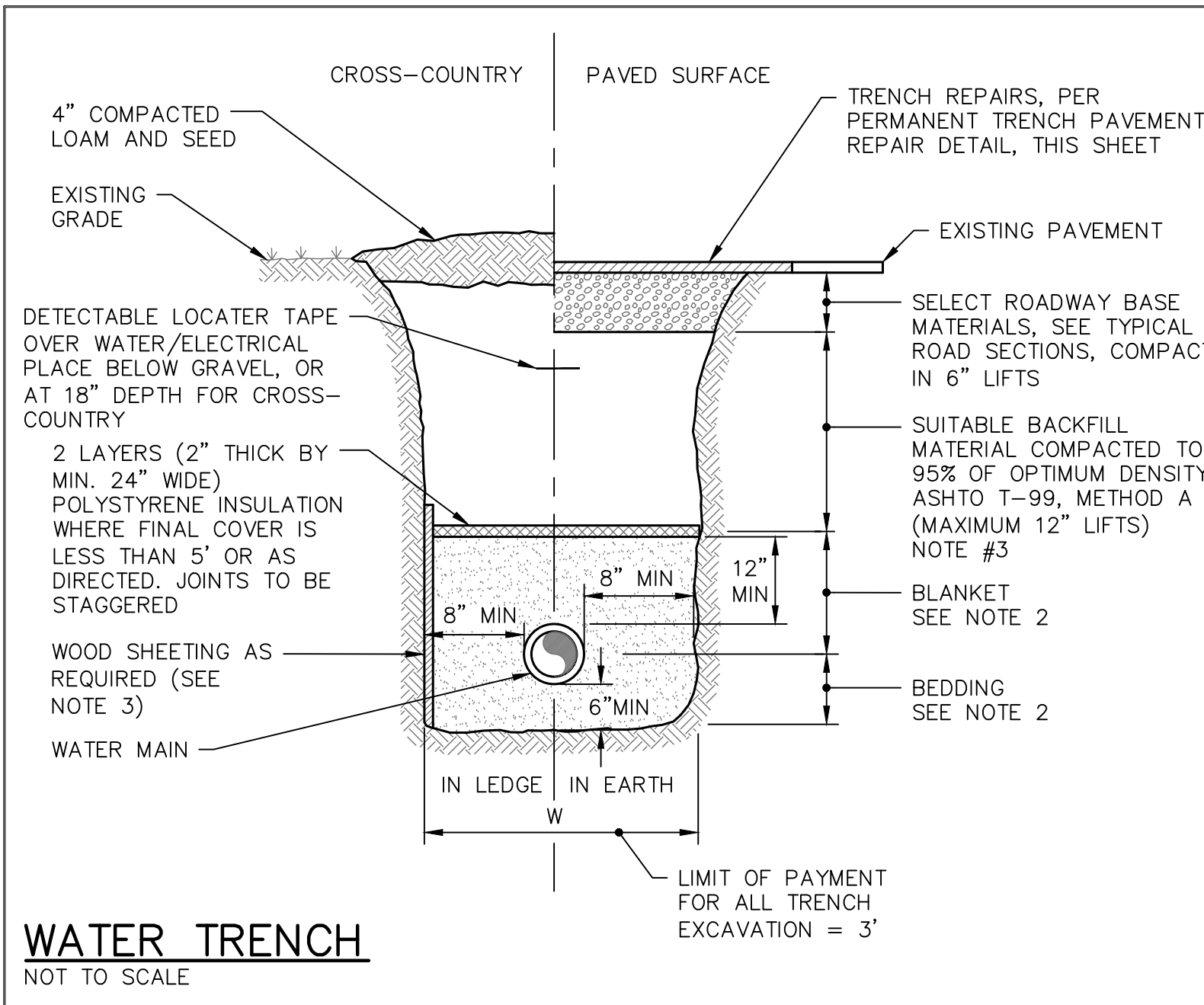


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LITTLE BAY ROAD  
 LITTLE BAY ROAD  
 WATER IMPROVEMENTS  
 CITY OF PORTSMOUTH  
 PORTSMOUTH, NEW HAMPSHIRE

DWG NO. P4 SHEET 7 OF 10

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| NOMINAL DIA. (IN.)                   | PIPE SIZE |      |      |      |       |       |       |       |
|--------------------------------------|-----------|------|------|------|-------|-------|-------|-------|
|                                      | 4         | 6    | 8    | 10   | 12    | 16    | 20    | 24    |
| TEES, CAPS, PLUGS, & TAPPING SLEEVES | 1.05      | 2.32 | 4.15 | 6.37 | 9.15  | 16.23 | 25.44 | 36.58 |
| 90 DEGREE BENDS                      | 1.48      | 3.29 | 5.86 | 9.01 | 12.93 | 22.96 | 35.97 | 51.73 |
| 45 DEGREE BENDS                      | 0.80      | 1.78 | 3.17 | 4.88 | 7.00  | 12.42 | 19.47 | 28.00 |
| 22 1/2 DEGREE BENDS                  | 0.41      | 0.91 | 1.62 | 2.49 | 3.57  | 6.33  | 9.92  | 14.27 |
| 11 1/2 DEGREE BENDS                  | 0.21      | 0.46 | 0.81 | 1.25 | 1.79  | 3.18  | 4.99  | 7.17  |
| SYSTEM PRESSURE:                     | 100 PSI   |      |      |      |       |       |       |       |
| SAFETY FACTOR:                       | 1.5       |      |      |      |       |       |       |       |
| SOIL BEARING CAPACITY:               | 2,000 PSF |      |      |      |       |       |       |       |

**MECHANICAL JOINT RESTRAINT**  
NOT TO SCALE

**NOTES:**

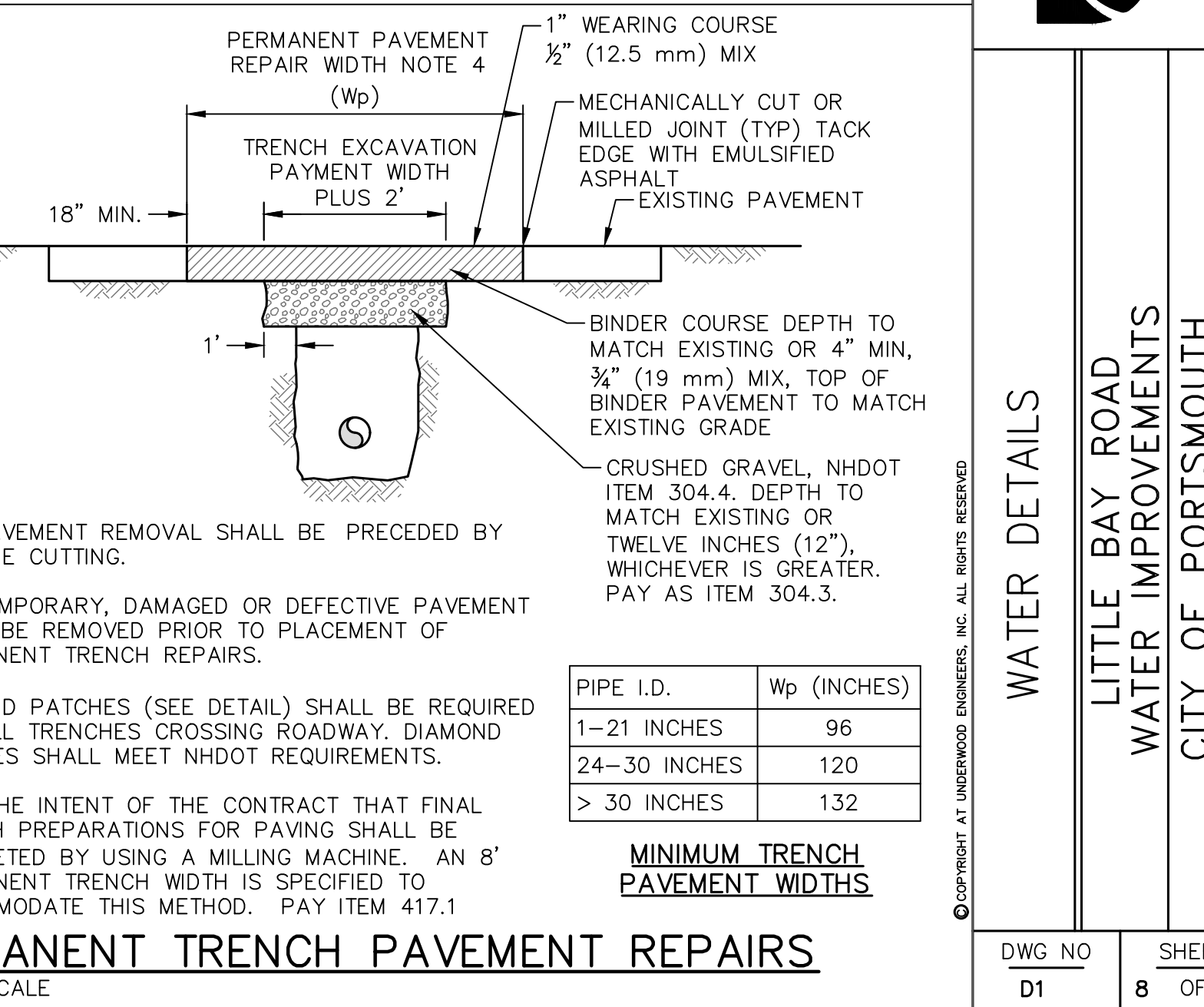
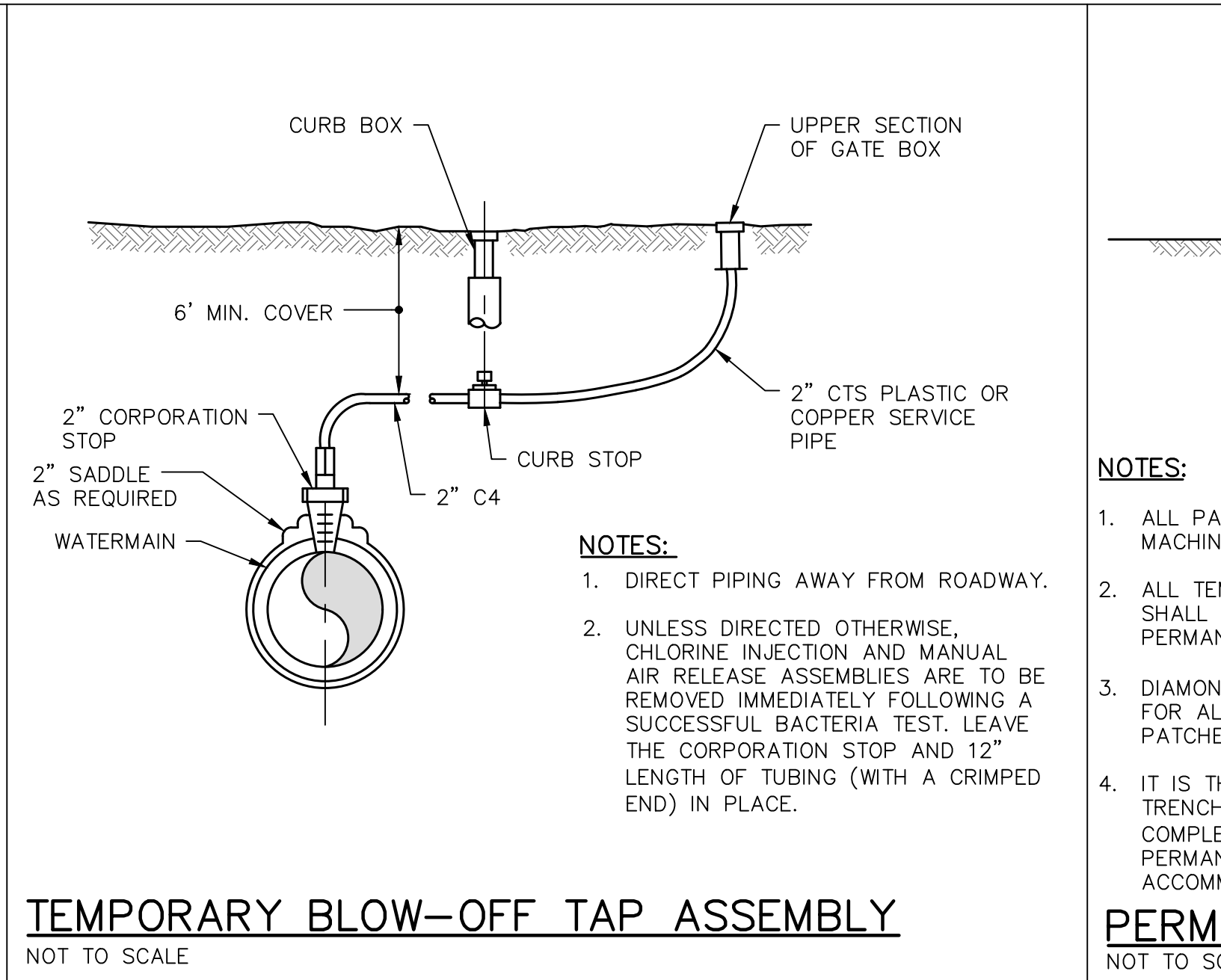
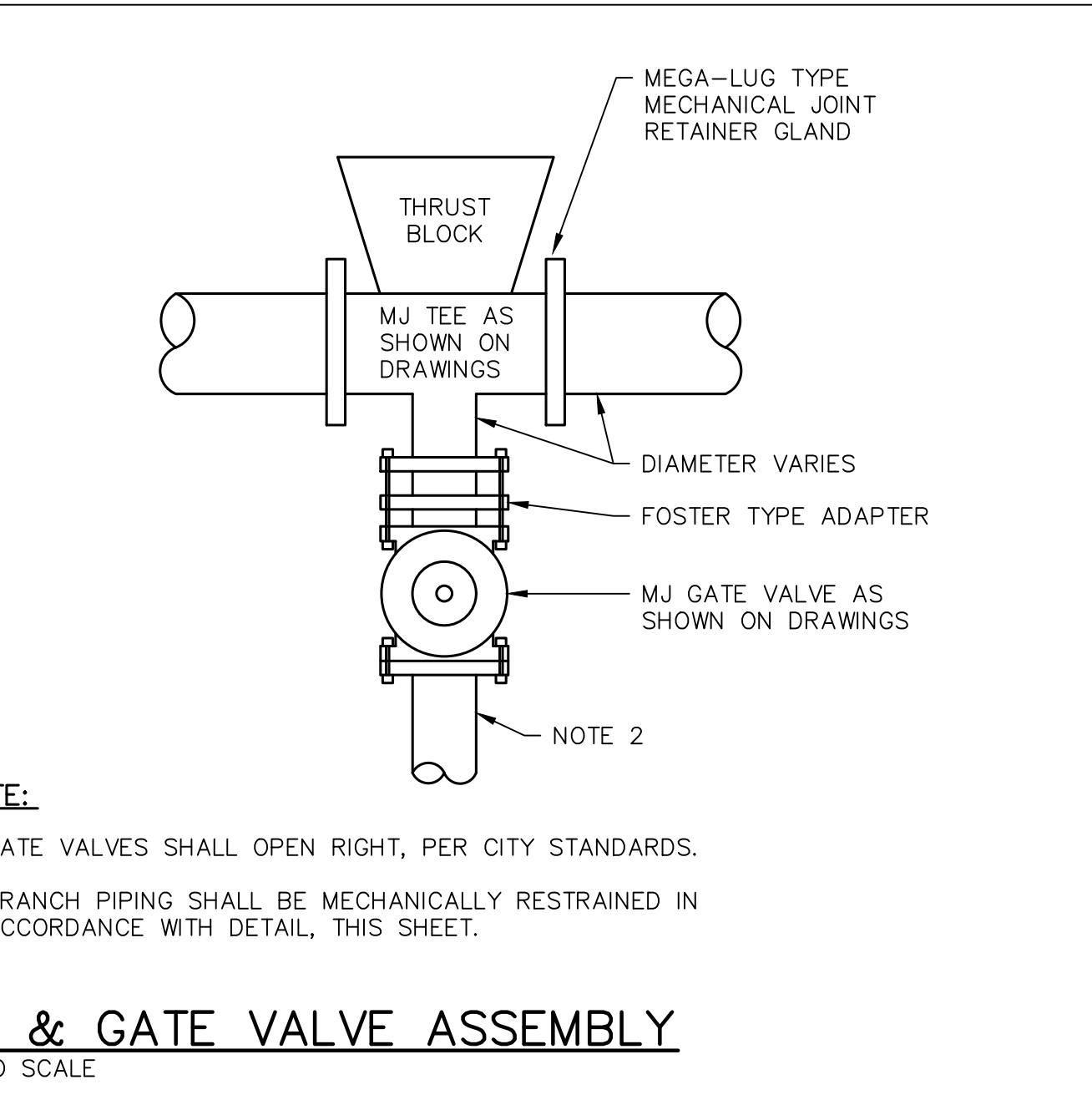
- ALL FITTINGS SHALL HAVE MECHANICAL RETAINING GLANDS AT ALL ENDS AND A MINIMUM OF ONE JOINT SHALL BE RESTRAINED BEYOND EACH SIDE OF FITTING.
- PIPE EXTENDING FROM ALL FITTINGS SHALL BE MECHANICALLY RESTRAINED TO THE MINIMUM LENGTHS SHOWN.
- ALL MINIMUM LENGTHS SHOWN ABOVE WERE CALCULATED USING THE EBAA IRON RESTRAINT LENGTH CALCULATOR VERSION 6.3 USING THE FOLLOWING ASSUMPTIONS: DUCTILE IRON PIPE, TYPE 4 TRENCH, 5 FOOT DEPTH OF BURY, A TEST PRESSURE OF 150 PSI AND SOILS CONSISTING OF WELL GRADED SANDS AND GRAVELLY SANDS WITH LITTLE OR NO FINES.
- ENGINEER RESERVES THE RIGHT TO MODIFY RESTRAINT LENGTHS REQUIRED BASED ON VARYING TRENCH CONDITIONS, DEPTH OF BURY OR PIPE MATERIALS.
- FOR REDUCERS, RESTRAINT LENGTH SHOWN IS FOR THE LARGER PIPE.
- MECHANICALLY RESTRAIN ONE JOINT ON EITHER SIDE OF THE NOMINAL PIPE OF TEE AT A MINIMUM DISTANCE OF 5'.

| Nom. Diameter of Large Pipe | Nominal Diameter of Small Pipe (Note 4) |     |     |     |     |
|-----------------------------|---|-----|-----|-----|-----|
|                             | 4"                                      | 6"  | 8"  | 10" | 12" |
| 8"                          | 17'                                     | 10' | -   | -   | -   |
| 10"                         | 23'                                     | 17' | 10' | -   | -   |
| 12"                         | 29'                                     | 24' | 18' | 10' | -   |
| 16"                         | 39'                                     | 36' | 31' | 28' | 18' |

| Nominal Pipe Diameter | Bend Angle |     |       |        |
|-----------------------|------------|-----|-------|--------|
|                       | 90°        | 45° | 22.5° | 11.25° |
| 4"                    | 6"         | 3"  | 2"    | 1"     |
| 6"                    | 9"         | 4"  | 2"    | 2"     |
| 8"                    | 11"        | 5"  | 3"    | 2"     |
| 10"                   | 13"        | 6"  | 3"    | 2"     |
| 12"                   | 16"        | 7"  | 3"    | 2"     |
| 16"                   | 20"        | 9"  | 4"    | 2"     |

| Nominal Pipe | Nominal Branch Diameter (Note 5) |     |     |     |
|--------------|----------------------------------|-----|-----|-----|
|              | 8"                               | 10" | 12" | 16" |
| 8"           | 6"                               | -   | -   | -   |
| 10"          | 8"                               | 11" | -   | -   |
| 12"          | 1"                               | 7"  | 16" | -   |
| 16"          | 1"                               | 1"  | 9"  | 25" |

| Nominal Pipe Diameter | Restrained Length (ft) |
|-----------------------|------------------------|
| 4"                    | 13'                    |
| 6"                    | 18'                    |
| 8"                    | 23'                    |
| 10"                   | 28'                    |
| 12"                   | 33'                    |
| 16"                   | 43'                    |



**Underwood Engineers**  
25 Vaughan Mall, Portsmouth, N.H. 03801  
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**WATER DETAILS**  
LITTLE BAY ROAD  
WATER IMPROVEMENTS  
CITY OF PORTSMOUTH  
PORTSMOUTH, NEW HAMPSHIRE

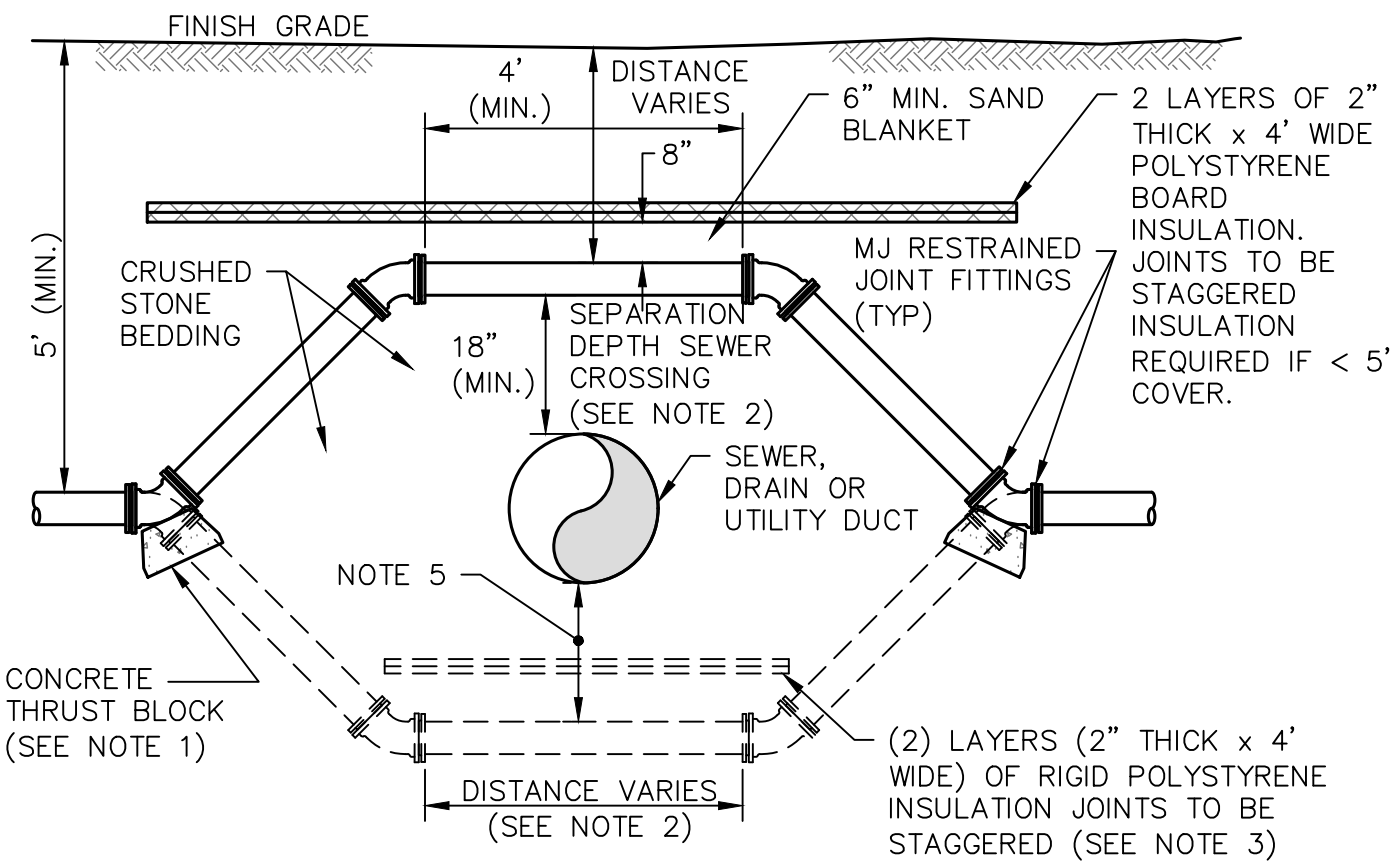
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|----------------|----------|-----|------|
| CONSTRUCTION   | 8-1-24   | DJR |      |
| RECORD DRAWING | 8-28-24  | DJR |      |

Drawn/Chk. RRG  
Designed DJR  
Checked DJR  
Approved DJR  
Date 8/28/24  
Book No. 3025  
Project No. 3025  
Dwg. ID 3025-Details  
Scale AS SHOWN

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REVISIONS  
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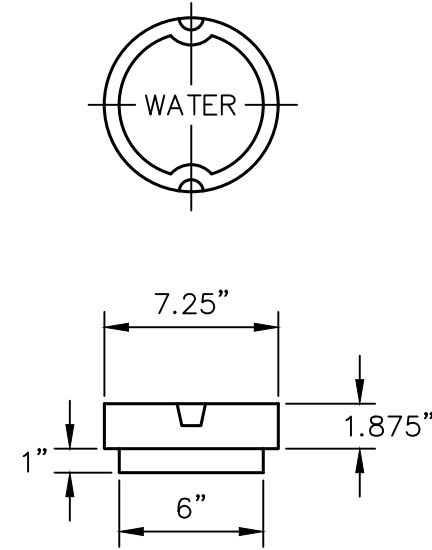
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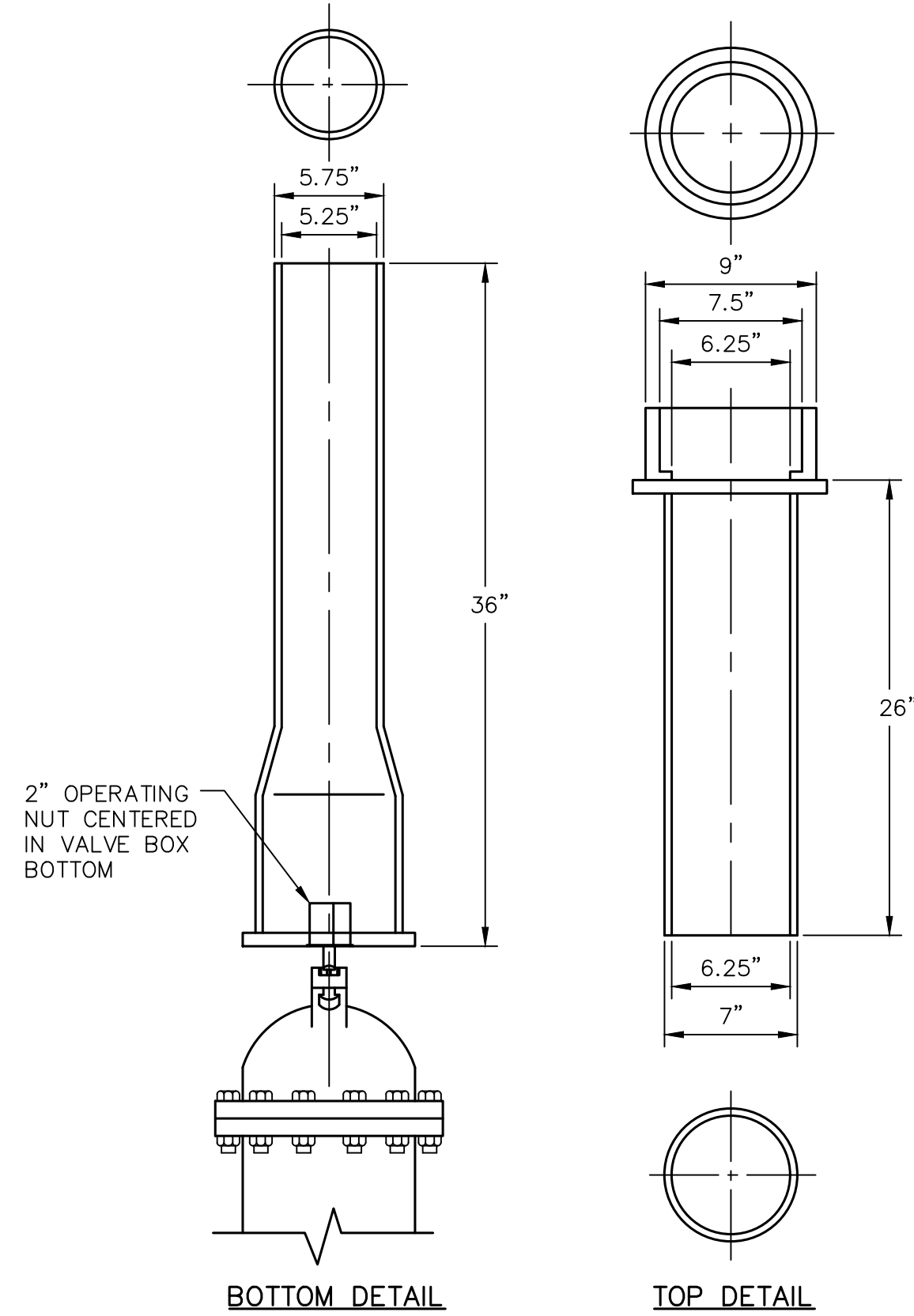


- NOTE:**
1. INSTALL (4) FOUR 45° MJ BENDS WITH RESTRAINED JOINT FITTINGS.
  2. VERTICAL SEPARATION DEPTH BETWEEN WATER AND SEWER SHALL BE AT LEAST 18", WITH WATER ABOVE SEWER, PER NHDES ENV-Wq 704.12. VERTICAL SEPARATION OF LESS THAN 18" ALLOWED ONLY WITH WAIVER FROM NHDES. CENTER CROSSING PIPE BETWEEN BELLS. SEWER PIPE JOINT SHALL BE A MINIMUM OF OF 6 FT. HORIZONTALLY FROM THE WATER MAIN.
  3. PROVIDE A MINIMUM OF 8" SEPARATION FOR DRAIN CROSSINGS. PROVIDE INSULATION IF DRAIN CROSSES OVER WATER MAIN.
  4. PROVIDE 6" MINIMUM SEPARATION FOR OTHER UTILITY CROSSINGS. IF ADDITIONAL DEPTH IS 1' OR LESS FROM NORMAL DEPTH, ADDITIONAL DEPTH MAY BE ACHIEVED BY USING PIPE JOINT DEFLECTIONS PER CONTRACTOR RECOMMENDATION. IF ADDITIONAL DEPTH FROM NORMAL EXCEEDS 1', ADDITIONAL DEPTH WILL BE ACHIEVED USING BENDS AS SHOWN.
  5. IF CONSTRUCTION OF WATER MAIN UNDER SEWER MAIN IS UNAVOIDABLE, SEWER MAIN SHALL BE CONSTRUCTED OF C900 PVC PIPE FROM MANHOLE TO MANHOLE.

**WATER MAIN CONFLICT – CROSSING**  
NOT TO SCALE



**DROP STYLE COVER**  
NOTE:  
COVER MUST BE MARKED "WATER"



**GATE VALVE AND VALVE BOX**  
NOT TO SCALE

|  |  |                              |
|--|--|------------------------------|
| Drawn/Chk. RMG<br>Designed DJR<br>Checked DJR<br>Approved DJR<br>Date 8/28/24<br>Book No. 3025<br>Project No. 3025<br>Dwg. ID 3025_Details<br>Scale AS SHOWN |  | REVISIONS<br>NO.             |
| APPROVAL<br>Date 8-1-24<br>By DJR  | CONSTRUCTION<br>Date 8-28-24<br>By DJR | RECORD DRAWING<br>Date<br>By |
| WATER DETAILS<br>LITTLE BAY ROAD<br>WATER IMPROVEMENTS<br>CITY OF PORTSMOUTH<br>PORTSMOUTH, NEW HAMPSHIRE  |  | DWG NO<br>D2                 |
| Underwood<br>Engineers<br>25 Vaughan Mall, Portsmouth, N.H. 03801<br>Tel. 603-436-6192 Fax. 603-431-4733   |  | SHEET<br>9 OF 10             |
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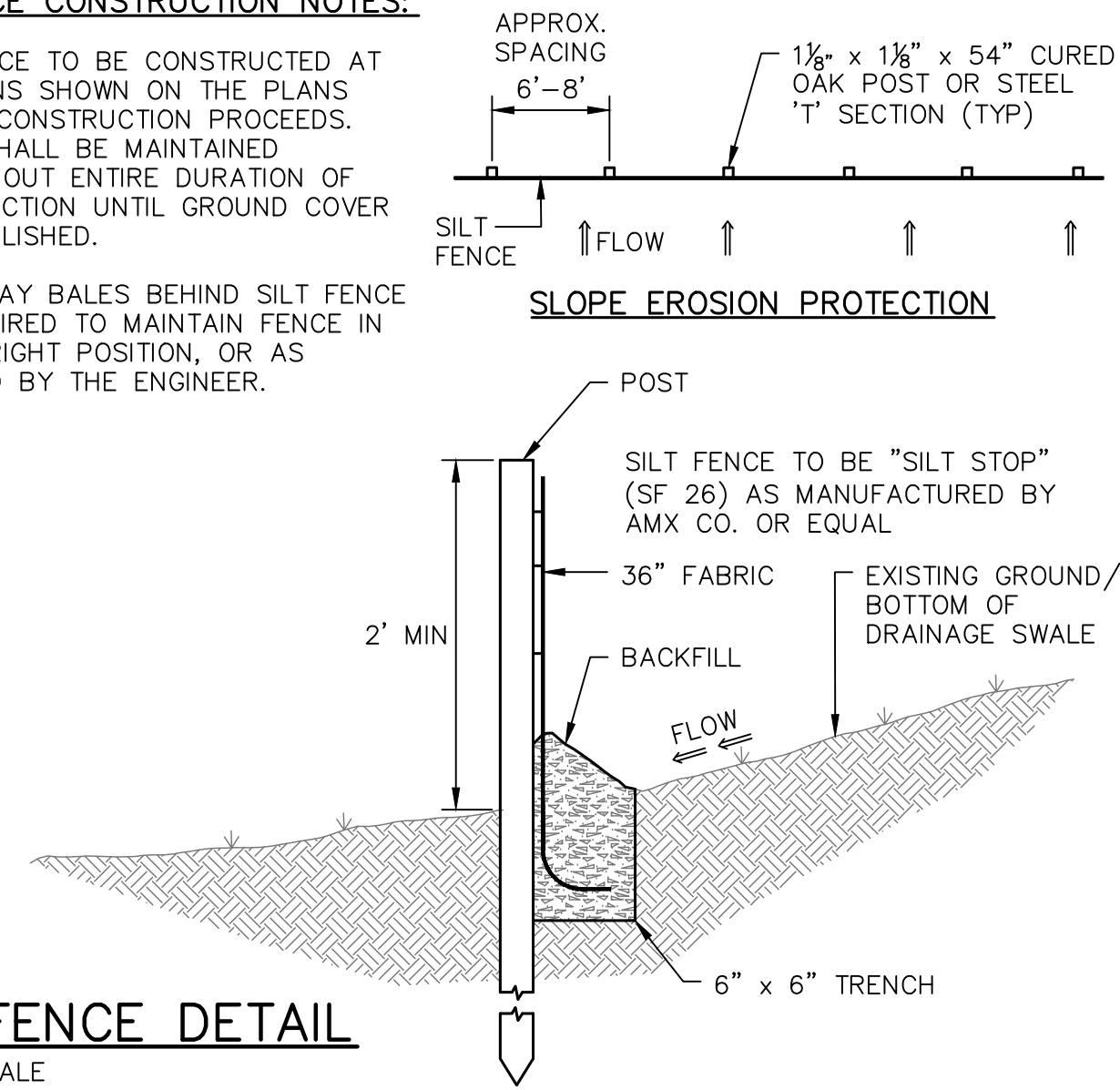


**STORMWATER MANAGEMENT, EROSION & SEDIMENT CONTROL NOTES:**

1. THE CONTRACTOR MUST SUBMIT A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) TO THE OWNER AND A NOTICE OF INTENT (NOI) TO THE USEPA REGION ONE FOR CONSTRUCTION ACTIVITY IF GREATER THAN 1 ACRE IS DISTURBED AT ANY TIME. THE SWPPP IS TO BE PREPARED IN ACCORDANCE WITH USEPA REQUIREMENTS.
2. THE CONTRACTOR SHALL SUBMIT, FOR REVIEW AND APPROVAL, A SCHEDULE TO INCLUDE ALL EARTHWORK ACTIVITIES.
3. EXCAVATION AND EARTHWORK SHALL BE CONDUCTED IN A MANNER THAT WILL MINIMIZE EFFECTS OF EROSION THROUGHOUT CONSTRUCTION.
4. THE CONTRACTOR SHALL, TO THE EXTENT POSSIBLE, PHASE EARTHWORK ACTIVITIES SO THAT THE SMALLEST PRACTICAL LAND AREA IS EXPOSED AT ANY GIVEN TIME, FOR THE SHORTEST PRACTICAL PERIOD OF TIME.
5. THE CONTRACTOR SHALL LOAM, SEED, AND MULCH ALL CUT SLOPES IMMEDIATELY FOLLOWING FINAL GRADING. TEMPORARY SEEDING AND MULCH SHALL BE APPLIED AT ALL UNVEGETATED AREAS THAT WILL BE EXPOSED FOR A PERIOD EXCEEDING TWENTY (20) DAYS. AREAS TO BE SEEDING SHALL BE ROUGH GRADED AND COVERED WITH LOAM 4 INCHES DEEP AFTER LIGHT ROLLING AND CONFORMING WITH EXISTING LINE AND GRADES.
6. SHALLOW SLOPES (SHALLOWER THAN 3:1) NOT SHOWN TO BE OTHERWISE COVERED SHALL BE SEEDING WITH PARK MIXTURE, SECTION 02935.
7. STEEP SLOPES (STEEPER THAN 3:1) NOT SHOWN TO BE OTHERWISE COVERED SHALL BE EITHER SODDED OR SEEDING WITH A SLOPE MIXTURE, SECTION 02935. AFTER SEEDING, STEEP SLOPES SHALL BE MULCHED WITH EXCELSIOR OR EQUAL AND A CHEMICAL TACKIFIER SHALL BE APPLIED TO ALL SIDE SLOPES STEEPER THAN 3:1. RATE OF APPLICATION SHALL BE AS RECOMMENDED BY THE MANUFACTURER.
8. HAY BALES, SILT FENCING, AND EROSION STONE SHALL BE INSTALLED WHERE NECESSARY TO MINIMIZE THE EFFECTS OF EROSION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ANY ADDITIONAL MEASURES WHICH MAY BE REQUIRED WHERE NECESSARY TO OBTAIN THE OBJECTIVES DESCRIBED HEREIN. ALL WORK SHALL BE COMPLETED IN CONFORMANCE WITH THE LATEST EDITION OF "STORMWATER MANAGEMENT AND EROSION AND SEDIMENT CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS IN NEW HAMPSHIRE". PREVENT THE DEGRADATION OF DOWNSTREAM PROPERTIES AND DRAINAGE.
9. DRAINAGE SWALES SHALL BE MONITORED AND MAINTAINED THROUGHOUT CONSTRUCTION. SILT SHALL BE PERIODICALLY REMOVED FROM SWALES AS NECESSARY TO PREVENT MIGRATION.
10. HAY BALE BARRIERS SHALL BE INSTALLED ALONG SWALES AT 100 FOOT INTERVALS, AROUND CATCH BASINS, AND AT ALL AREAS WHERE STORMWATER OR TRENCHWATER IS CONCENTRATED.
11. HAY BALE BARRIERS AND SEDIMENT TRAPS ARE TO BE MAINTAINED AND KEPT CLEAN UNTIL ALL EXPOSED AREAS HAVE A HEALTHY STAND OF GROUND COVER, AT WHICH TIME TEMPORARY MEASURES ARE TO BE REMOVED. CONTRACTOR IS RESPONSIBLE FOR PROPER DISPOSAL OF TEMPORARY MATERIALS REMOVED AND SILT.
12. DISTURBED AREAS SHALL BE LOAMED AND SEEDING. MINIMUM DEPTH OF LOAM SHALL BE FOUR (4) INCHES.
13. PROVIDE SEED (PARK MIXTURE), LIME, FERTILIZER, AND MULCH PER SECTION 644 OF THE SPECIFICATIONS.

**SILT FENCE CONSTRUCTION NOTES:**

1. SILT FENCE TO BE CONSTRUCTED AT LOCATIONS SHOWN ON THE PLANS BEFORE CONSTRUCTION PROCEEDS. FENCE SHALL BE MAINTAINED THROUGHOUT ENTIRE DURATION OF CONSTRUCTION UNTIL GROUND COVER IS ESTABLISHED.
2. PLACE HAY BALES BEHIND SILT FENCE AS REQUIRED TO MAINTAIN FENCE IN AND UPRIGHT POSITION, OR AS DIRECTED BY THE ENGINEER.



**SILT FENCE DETAIL**

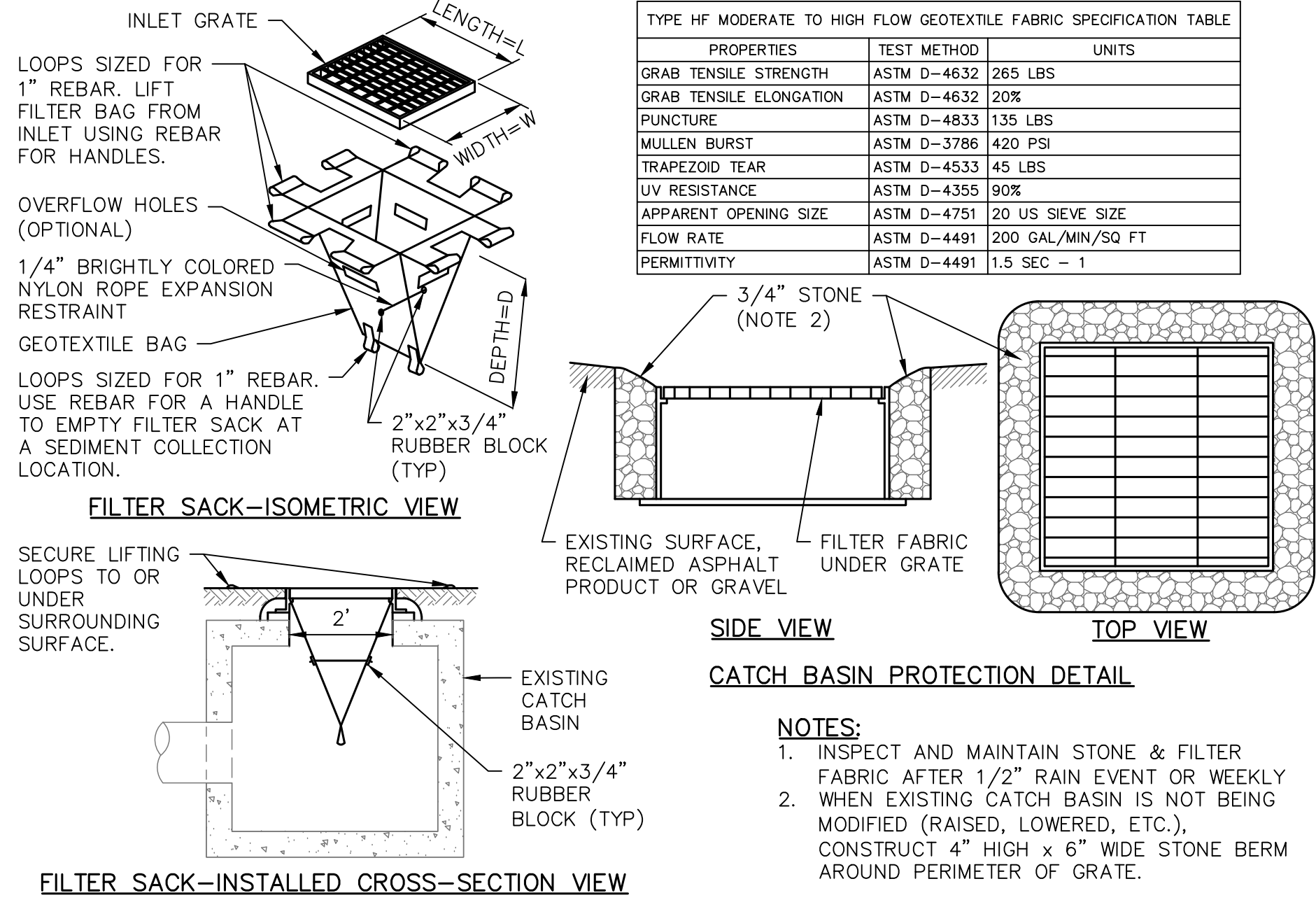
NOT TO SCALE

**NOTES:**

1. ACCEPTED MANUFACTURERS:
  - A. "SILT SACK" INLET SEDIMENT CONTROL DEVICE BY "ACF ENVIRONMENTAL, INC" 2831 CARDWELL RD., RICHMOND VA 23234, (800)448-3636
  - B. "DANDY SACK" BY "DANDY PRODUCTS, INC.", P.O. BOX 1980, WESTERVILLE, OH 43086, (800) 591-2284.
2. ALTERNATIVE CATCH BASIN INLET PROTECTION MEASURES MAY INCLUDE THE NHDES "BLOCK AND GRAVEL METHOD" PER THE NH STORMWATER MANUAL (VOL. 3).
3. EMPTY FILTER SACK WHEN BRIGHTLY COLORED EXPANSION RESTRAINT CAN NO LONGER BE SEEN.
4. GEOTEXTILE WILL BE A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS REQUIREMENTS IN THE SPECIFICATIONS TABLE.
5. AN OIL ADSORBENT PAD OR PILLOW CAN BE USED WHEN OIL SPILLS ARE A CONCERN.
6. INSPECT PER REGULATORY REQUIREMENTS.
7. THE WIDTH, "W", OF THE FILTER SACK WILL MATCH THE INSIDE WIDTH OF THE CATCH BASIN FRAME.
8. THE DEPTH, "D", OF THE FILTER SACK WILL BE BETWEEN 18 INCHES AND 36 INCHES.
9. THE LENGTH, "L", OF THE FILTER SACK WILL MATCH THE INSIDE LENGTH OF THE CATCH BASIN FRAME.

**CATCH BASIN INLET FILTER**

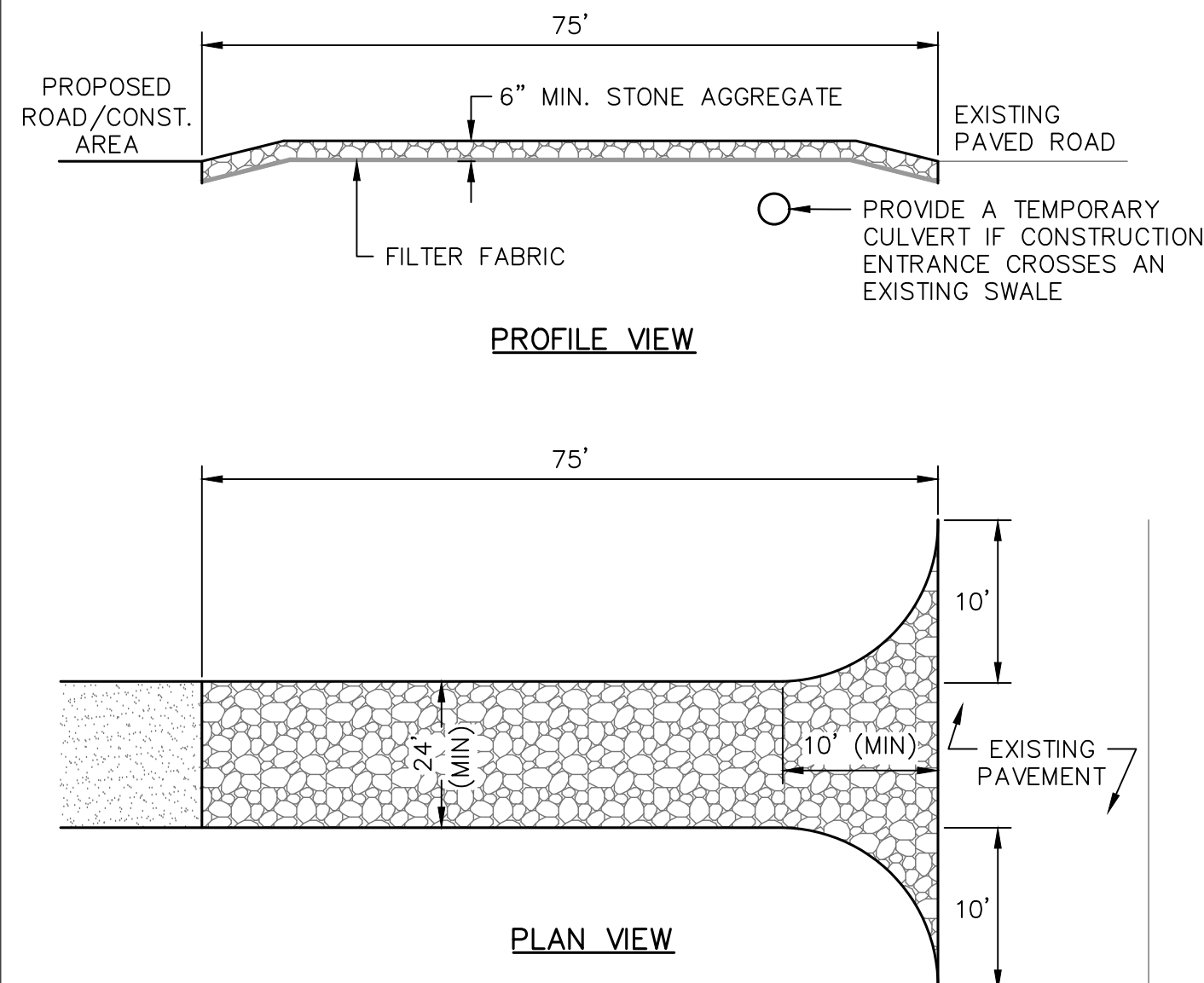
NOT TO SCALE



**CATCH BASIN PROTECTION DETAIL**

**NOTES:**

1. INSPECT AND MAINTAIN STONE & FILTER FABRIC AFTER 1/2" RAIN EVENT OR WEEKLY
2. WHEN EXISTING CATCH BASIN IS NOT BEING MODIFIED (RAISED, LOWERED, ETC.), CONSTRUCT 4" HIGH x 6" WIDE STONE BERM AROUND PERIMETER OF GRATE.



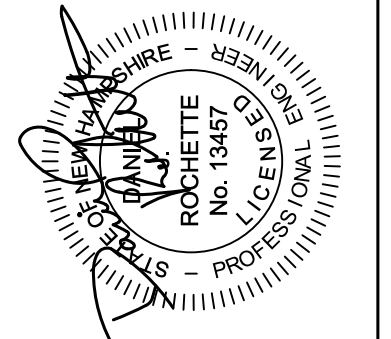
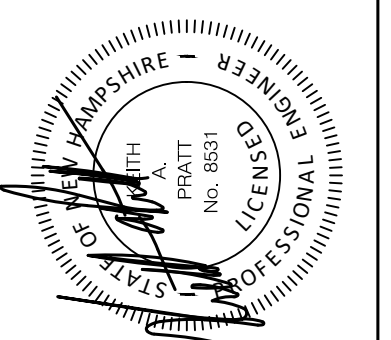
**STABILIZED CONSTRUCTION ENTRANCE**

NOT TO SCALE

**STABILIZED CONSTRUCTION ENTRANCE SPECIFICATIONS:**

1. THE TEMPORARY STABILIZED CONSTRUCTION ENTRANCE SHALL CONSIST OF PLACING 1"-2" STONE, RECLAIMED STONE OR RECYCLED CONCRETE EQUIVALENT, AT THE LOCATION WHERE CONSTRUCTION VEHICLES EXIT THE SITE IN ORDER TO MINIMIZE MIGRATION OF DIRT ONTO THE ADJOINING PAVED ROADS.
2. STONE SHALL BE 1" TO 2" FRACTURED ROCK.
3. STONE SHALL BE PLACED OVER GEOTEXTILE FABRIC.
4. THE MINIMUM STONE DEPTH SHALL BE 6 INCHES.
5. THE MIN. DIMENSIONS OF THE STABILIZED ENTRANCE SHALL BE 24 FEET WIDE BY 75 FEET LONG.
6. SURFACE WATER RUNOFF FROM THE PAVED ROAD SHALL NOT BE PERMITTED TO COME IN CONTACT WITH THE STONE ENTRANCE. USE A CROSS CULVERT UNDER THE NEW ENTRANCE OR CONSTRUCT A BERM ALONG THE EDGE OF EXISTING PAVEMENT TO DIVERT WATER AWAY FROM THE STONE.
7. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF SEDIMENT ONTO PUBLIC ROADWAYS. TOP DRESS OR REPLACE STONE AS NEEDED. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADWAYS SHALL BE IMMEDIATELY REMOVED.
8. THE ENTRANCE SHALL BE MAINTAINED UNTIL THE SITE CONDITIONS WARRANT ITS REMOVAL.

| ISSUE FOR      | APPROVAL | DATE    | BY  |
|----------------|----------|---------|-----|
| APPROVAL       |          | 8-1-24  | DJR |
| CONSTRUCTION   |          | 8-28-24 | DJR |
| RECORD DRAWING |          |         |     |



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|                                    |                   |
|------------------------------------|-------------------|
| EROSION CONTROL DETAILS            |                   |
| LITTLE BAY ROAD WATER IMPROVEMENTS |                   |
| CITY OF PORTSMOUTH                 |                   |
| PORTSMOUTH, NEW HAMPSHIRE          |                   |
| DWG NO<br>D3                       | SHEET<br>10 OF 10 |

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