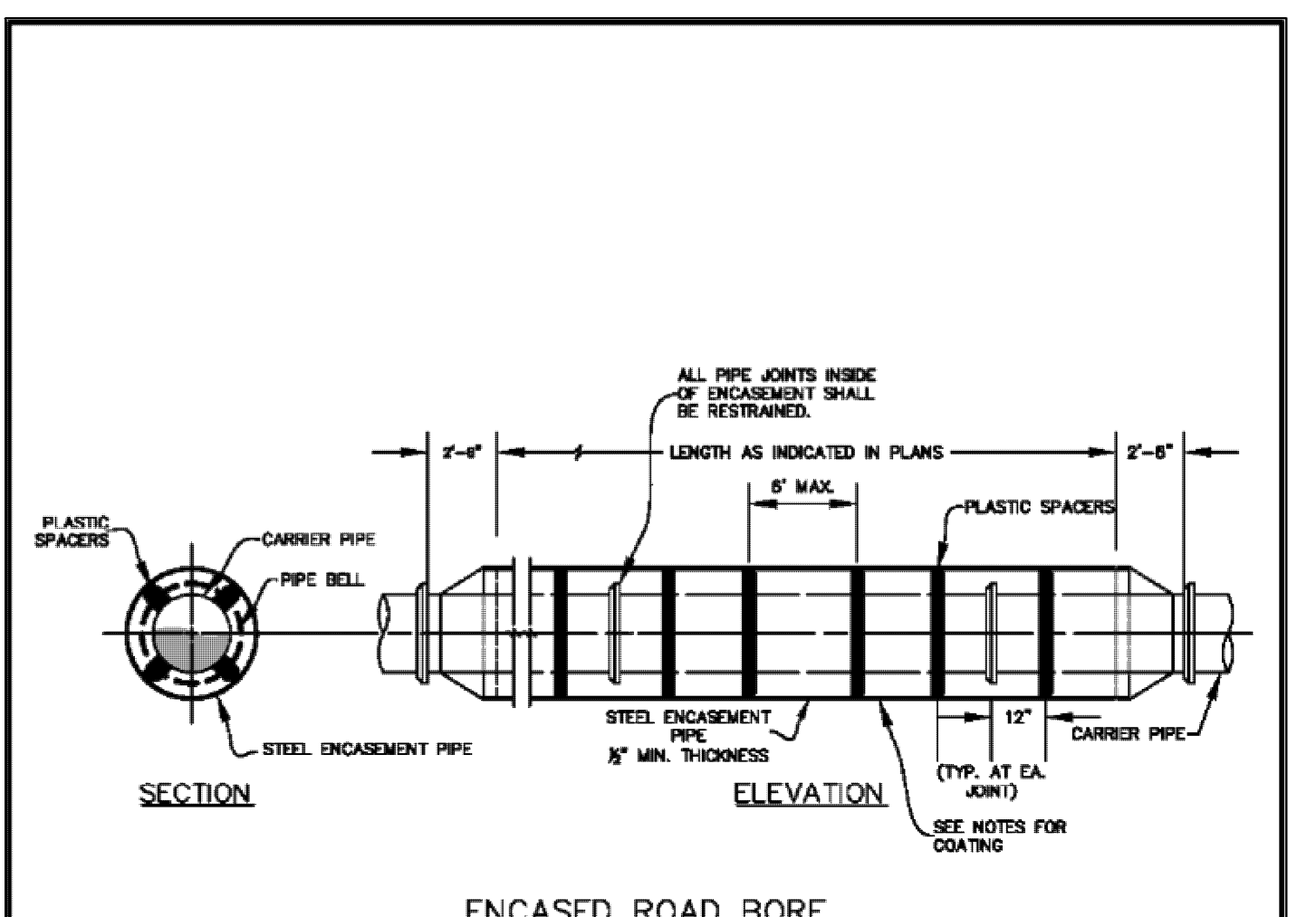
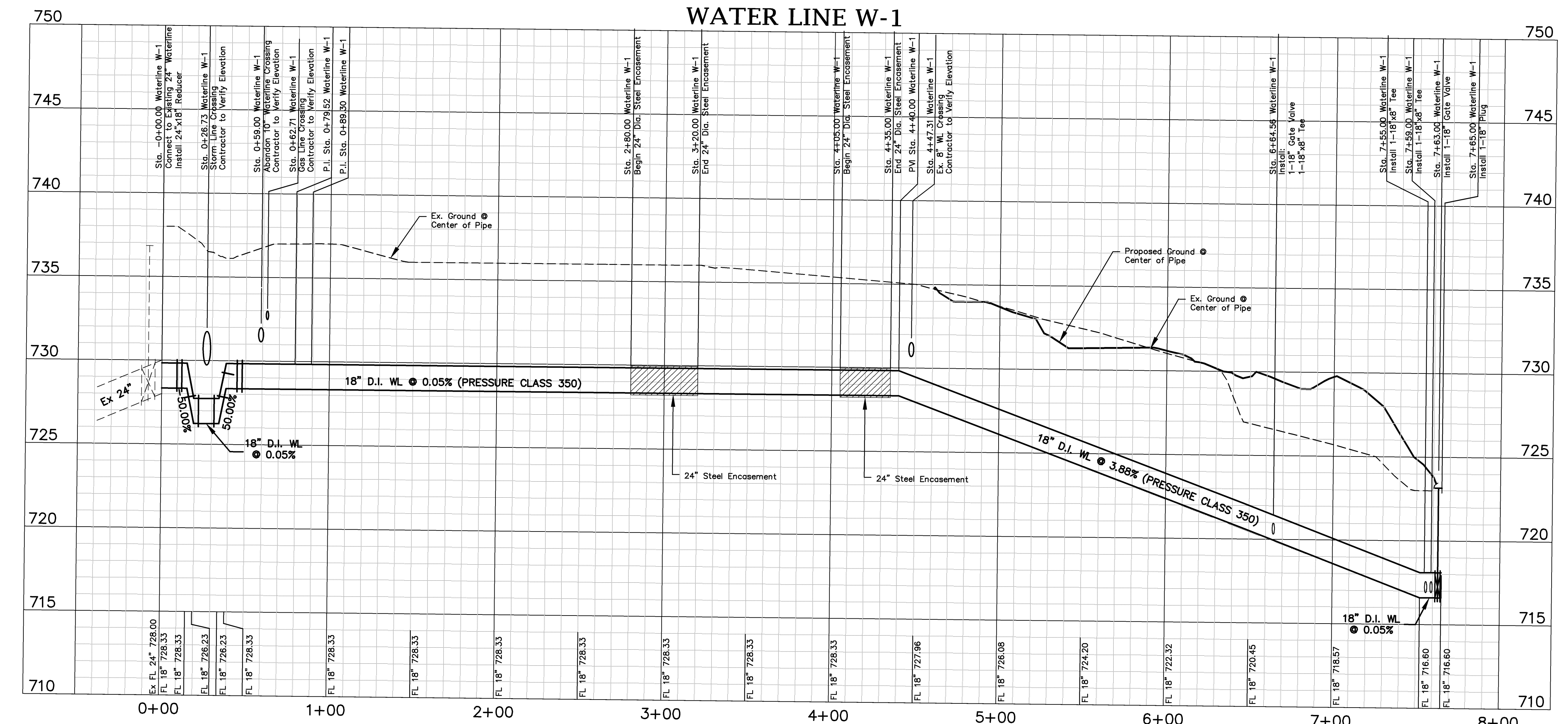


**WATER NOTES**

1. All materials and construction shall be in accordance with the City of McKinney Standard Specifications and Construction Standards, and Standard Specifications for Public Works Construction prepared by North Central Texas Council of Governments (Latest Revision), and to the regulations of The Texas Commission on Environmental Quality.
2. Existing utilities are shown schematically and are for the contractor's guidance only. The location and/or elevation of existing utilities as shown on these plans are based on records of the various utility companies, and, where possible, measurements taken in the field. The contractor must call the appropriate utility company at least 72 hours prior to any excavation to request exact field location of utilities.
3. The contractor shall be responsible for protecting all existing improvements in the construction of this project. The contractor is responsible for repairs to damage to any existing improvements during construction. Repairs shall be equal to or better than condition prior to construction.
4. All 18" water pipe shall be Ductile Iron conforming to AWWA C151 standards.
5. Contractor shall be responsible for maintaining trench safety requirements in accordance with the latest standards of O.S.H.A. or any other agency having jurisdiction for excavation and trenching procedures. Contractor shall provide and implement a trench safety plan complying with O.S.H.A.

**WATER LINE W-1**



- ENCASED ROAD BORE**  
N.T.S.
- NOTES:**
- 1) PREFABRICATED PLASTIC SPACERS SHALL BE RAC3 NORTH AMERICA OR APPROVED EQUAL FOR THE SPECIFIC APPLICATION AS RECOMMENDED BY THE MANUFACTURER.
  - 2) CONTRACTOR SHALL PROVIDE SUPPORT UNDER CARRIER PIPE TO HAVE MIN. 1" CLEARANCE BETWEEN PIPE BELL AND ENCASUREMENT PIPE.
  - 3) ENDS OF ENCASUREMENT PIPE SHALL HAVE END SEALS INSTALLED PER MANUFACTURER'S REQUIREMENTS. END SEALS SHALL BE O3 MODEL LEW WRAP-AROUND BY O3 PIPELINE SYSTEMS OR APPROVED EQUAL.
  - 4) CONTRACTOR SHALL ONLY DRY BORE WITHIN THE ROW.
  - 5) STEEL ENCASUREMENT PIPE SHALL CONFORM TO AWWA C-200. THE PIPE SHALL BE FABRICATED IN ACCORDANCE WITH ASTM A-570 FROM STEEL PLATES HAVING MINIMUM YIELD STRENGTH OF 36,000 P.S. ENCASUREMENT PIPE SHALL HAVE A MINIMUM OF 8" WALL THICKNESS.
  - 6) STEEL ENCASUREMENT PIPE SHALL BE PAINTED INSIDE AND OUTSIDE WITH TWO COATS OF TMECO, HI TMECOCL SERIES 48-48E EQUAL TAP OR CITY APPROVED EQUIVALENT PRIOR TO DELIVERY TO THE JOB SITE. MINIMUM COATING INSIDE AND OUTSIDE SHALL BE 12-MIL DRY FILM THICKNESS (DFT) FOR EACH COAT.
  - 7) ENCASUREMENT PIPE SHALL BE FIELD WELDED IN ACCORDANCE WITH AWWA C-208. WELDED JOINTS SHALL BE WIRE BRUSHED AND PAINTED WITH ONE COAT OF TMECO, QUANTANE SERIES 530, 2.5-MIL DRY FILM THICKNESS (DFT) OR CITY APPROVED EQUIVALENT. REFER TO NOTE 6. FOR COATING AFTER FINISH.

**LEGEND**

---	Proposed S.S. Line
—	Proposed Water Line
⊕	Proposed Fire Hydrant
+	Proposed Water Tee
+	Proposed Water Valve
+	Proposed Water Bend
+	Proposed Blow Off Valve
⊕	Existing Fire Hydrant
ss	Existing S.S. Line
w	Existing Water Line
ue	Existing Underground Elec
gas	Existing Gas Line
▨	Proposed Retaining Wall

**BENCHMARK:**  
 Found TXDOT brass disc +/-256' South of the southwest corner of Lot 5, Block 1, Sandshell Commercial Addition. Elevation = 651.86  
 Found X cut in concrete at the southwest corner of Lot 5, Block 1, Sandshell Commercial Addition (Shown Hereon). Elevation = 652.77  
 COM-38 = Aluminum Disk in concrete at southwest corner of Virginia Parkway and Peregrine Drive. Elevation = 740.77

Issue Dates:	Revisions:	Date:
1	1	
2	2	
3	3	
4	4	
5	5	
6	6	

**CROSS ENGINEERING CONSULTANTS**  
 131 S. Tennessee St. McKinney, Texas 75069  
 972.562.4409 Texas P.E. Firm No. P-5935

Drawn By: C.E.C.I. Checked By: C.E.C.I. Scale: H:1"=40", V:1"=4'

THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW UNDER THE AUTHORITY OF JONATHAN D. HAKE, P.E. NO. 94738 ON 2/6/2017. IT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES.

**McKINNEY** Unique by nature.<sup>SM</sup>

**UNDERGROUND CONDUIT STEEL ENCASED ROAD BORE**

CITY OF MCKINNEY, TEXAS

DATE: JULY 1, 2016  
 STANDARD DRAWING NO. 3090M

**WATER PLAN & PROFILE**

CALIBER COLLISION

CROSS DEVELOPMENT CC MCKINNEY, LLC  
 CITY OF MCKINNEY, TEXAS

Sheet No. C5-2  
 Project No. 15115

CALIBER COLLISION-MCKINNEY ETJ