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August 8<sup>th</sup>, 2013

Honorable Judge Mike Brown  
And Tom Green County Commissioners  
122 West Harris  
San Angelo, Texas 76903-5877

Re: Millersview-Doole Water Supply Corporation (WSC) – Proposed Water Distribution  
Lines in Tom County Right-of-Way

Dear Judge and County Commissioners,

On behalf of Millersview-Doole WSC and Jacob & Martin, Ltd., we would like to thank you for taking time to review our proposed water line project. The WSC is proposing to extend its water distribution services into rural areas of Tom Green County east of San Angelo. The water line is being proposed in the County's Right-of-Way in Precinct 2; therefore, the WSC is requesting the approval of the Tom Green County Commissioners Court to install a water line in the Right-of-Way. The water line will be a 2" PVC line and run approximately 5,077 linear feet parallel to East Jarratt Road (Sheet 1-2). The water line will also have two crossings; one at East Jarratt Road and South Jarratt Road and the second at Whitfield Road and South Englert Road (Sheet 1-2).

I have enclosed a set of the plans which show the locations of the proposed water lines that shall be installed parallel to the county road and approximately 7.5 feet from the property lines. All water line crossings are also shown and will be installed by boring and encasing the carrier pipe. The Contractor will be Whitewater Construction Inc. and is required to meet all County Specifications during construction.

Granting the approval of the water lines in the County's Right-of-Way would insure the rural area residents of Tom Green County with a reliable water supply. Please feel free to call at 817-594-9880 me if you have any questions. We appreciate your assistance.

Sincerely,

JACOB & MARTIN, LTD.

Greg Wescott, E.I.T.

Enclosures

# **CONSTRUCTION SPECIFICATIONS**

*(adopted 5-8-01-Comm.Ct. Vol. 70, Pge 864/883-892)*

## **TOM GREEN COUNTY**

(Main Source: TxDOT Construction Specifications)

Prior to construction and recording of necessary locator maps and/or drawings, the following construction specifications should be obtained from the County Clerk's office located in the Court Street Annex at 124 W. Beauregard, San Angelo, Texas, 76903. The company/the utility shall notify the Commissioner or the Commissioner's assistant of the precinct where work is to commence prior to installation. This notification shall be immediately followed by submission of the appropriate paperwork for presentation at the next regular session of the Tom Green County Commissioners' Court *(amended 11-14-01-Comm.Ct. Vol. 72, Pg. 352)*

1. Overhead Power and Communication Lines.
2. Underground Power Lines.
3. Underground Communication Lines.
4. Water Lines.
5. Low Pressure Gas Lines.
6. High Pressure Gas Lines.

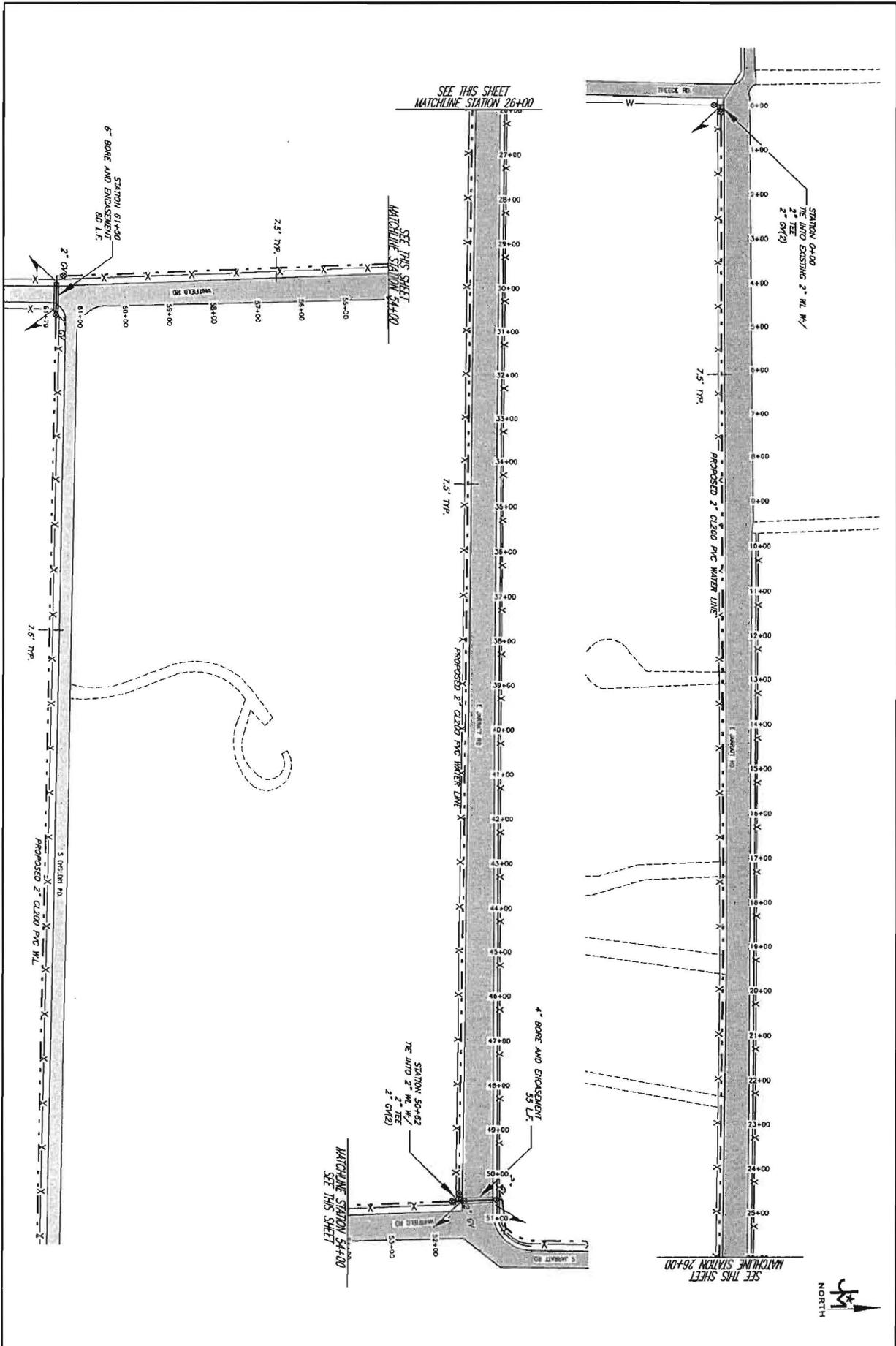
Upon final approval from Commissioners Court and prior to construction start these documents shall be recorded in the Commissioners' Court Minutes. *(amended 11-14-01-Comm.Ct. Vol. 72, Pg. 352)*

## CONSTRUCTION SPECIFICATIONS

### WATER LINES TOM GREEN COUNTY

1. Total clear depth of line shall be twenty-four(24") inches minimum at all points inside the Right-of Way(ROW) line. Extra depth is required at drainage points.
2. Utility lines crossing the roadway should be located at approximate right angles to the roadway to the extent reasonable and feasible.
3. Line shall be encased from top of backslope to top of backslope plus five feet on each side for cut sections and from toe of slope to toe of slope plus five feet on each side for fill sections( it is recommended that the line be encased from ROW to ROW to add additional protection to the installation). Steel is normally considered to be satisfactory encasement material; however, materials deemed to be of equal or greater strength could be substituted. The casing should have the durability to withstand all conditions to which it may be subjected.
4. Bore pits shall be located at the specified end of the encasement and shall be constructed in such a manner as to not interfere with roadway structural footings, safe roadside clearance and traffic operations. If necessary, shoring shall be used. When possible, excavated dirt should be placed on the oncoming traffic side of the bore pit. Under normal conditions, bore pits should be located approximately 30 feet from edge of roadway (on low volume roads, allow at least 15 feet from edge of roadway).
5. Longitudinal installations shall be located on uniform alignment as near as practicable to the ROW line.
6. Where the longitudinal trenching is permitted on the ROW, backfill shall be compacted to densities of the surrounding soil.
7. All paved roads must be bored for any underground utility installation crossing unless special variance has been granted. (Reference item 14).
8. Unpaved roads may be opened trenched. All trench backfill shall be of the same consistency and density of the surrounding soil.
9. Traffic control and protective devices shall be used and must conform to the "*TEXAS MANUAL on UNIFORM CONTROL DEVICES for STREETS and HIGHWAYS*".
10. An identification marker shall be located immediately above each ROW line where it is crossed by an underground installation. Where nonmetallic pipe is installed longitudinally, a durable metal wire shall be concurrently installed or other means shall be provided for detection purposes. Markers shall be situated so as to not interfere with highway maintenance or be concealed by vegetation.
11. Above ground pedestals or other utility appurtenances shall be located at or near the ROW line.

12. Plastic lines may be used provided they are installed with thirty inches of cover as a minimum. All crossings of plastic lines must be encased. Encasements under low volume roadways may be omitted on new lines having an inside diameter of 30 inches or more, provided all other requirements are met.
13. Manholes shall be limited to those necessary for installation and maintenance of underground lines. The maximum diameter of any manhole chimney at the ground level shall not exceed 36 inches. In no case shall they be placed or permitted to remain in the pavement or shoulders of high volume roadways. Outside width should not exceed seven feet, with the length held to a reasonable minimum.
14. If, in the opinion of the Road and Bridge Supervisor, it is not feasible to bore under the roadway, a special variance request by the submitting party shall be made to the appropriate County Commissioner. The County Commissioner and Road and Bridge Supervisor shall then determine this variance request and specific guidelines as to how to make the installation and restoration.
15. No explosives shall be used within the limits of the roadway ROW without written permission of the appropriate County Commissioner. Requests shall be by separate letter.
16. Where the cost of the installation is the responsibility of the utility firm, the County shall require reimbursement for its cost of measures that the county may take in the interest of traffic safety, or restoration and repairs to the roadway which are necessary by the utility installation.
17. Roadways adjacent to the utility construction sites shall be kept free from debris, roadway construction material, and mud. At the end of every construction day, construction equipment and materials shall be removed as far from the roadway edges as feasible. When utility installation is complete, the ROW shall be reshaped to its original condition or better and the area reseeded or resodded to reduce erosion. Should settlement or erosion occur within six months after utility installation, the utility shall reshape, reseed, or resod the areas.
18. The owner shall guarantee all work for one year against defects and failures due to workmanship and materials. All warranty and repairs shall be made within ninety(90) days.
19. All filing applications, location maps and other necessary documents shall be presented to Commissioners Court by the Commissioner of the precinct where the work is being done. In the case of crossing of precinct lines Commissioners affected shall concur on work being done.
20. Upon approval from Commissioners Court, presented documents shall be recorded in the Commissioners' Court Minutes. *(amended 11-14-01-Comm.Ct. Vol. 72, Pg 352)*
21. Prior to any underground penetration or excavation, contractor shall have all utilities located by central locator service (Digtess; Texas one call; Lonestar Exchange; or Current locator service) **(amended 03-30-10 – Commissioner's Court)**



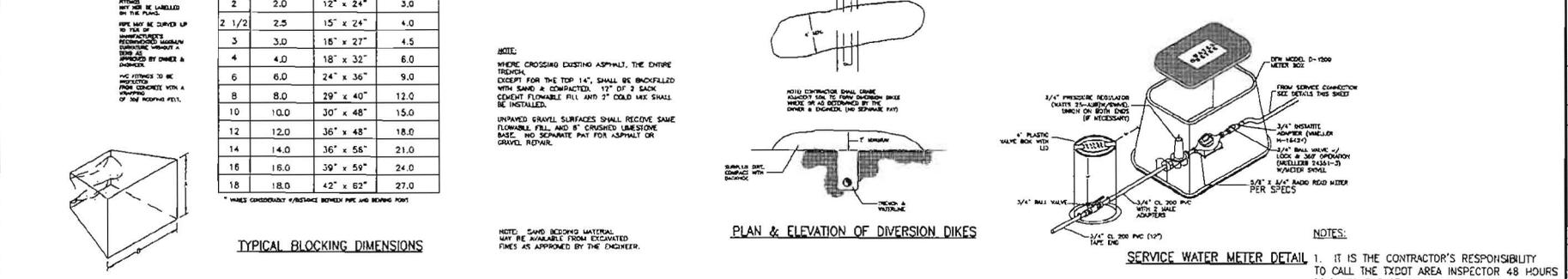
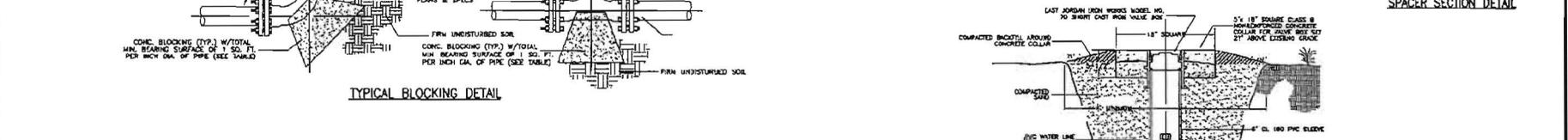
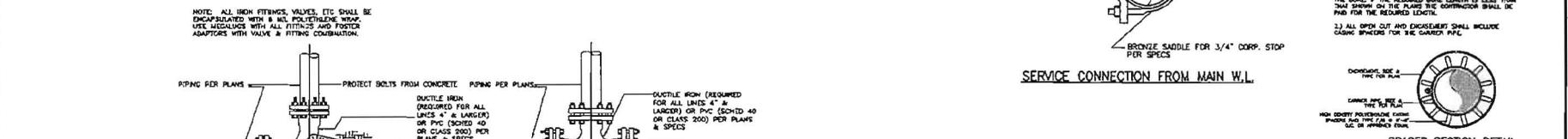
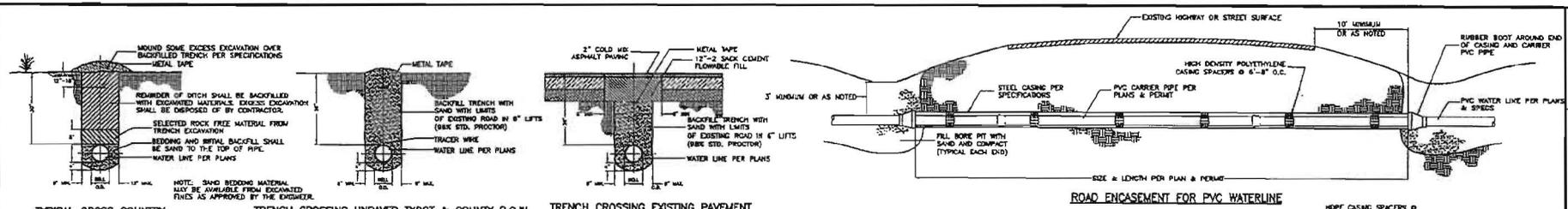
V:\Millersview Doole WSC\Project 11133 RD Water System Improvements\Drawings\Plans - Watermain\CHANGE ORDER NO. 1\Draw Road.dwg, 8/8/2013 11:06:22 AM, Alex Casado

NO.	REVISION	BY	DATE	SCALE
01				1" = 200'
02				

MILLERSVIEW-DOOLE WSC  
**WATER DISTRIBUTION LINES**  
 PLAN VIEW

**JACOB & MARTIN, LTD.**  
 CONSULTING ENGINEERS  
 3465 CUNBY LANE ABILENE, TEXAS 79604  
 1808 SANTA FE DR. SUITE 203 WEATHERFORD, TEXAS 76086  
 326-555-1070 817-584-8880

THIS DOCUMENT IS RELEASED FOR REVIEW ONLY UNDER THE AUTHORIZATION OF DENY LUTNER, P.E. 84843 AND IS NOT TO BE USED FOR CONSTRUCTION



**NOTES:**  
 SAND BEDDING MATERIAL MAY BE AVAILABLE FROM EXCAVATED FINES AS APPROVED BY THE ENGINEER.

**NOTES:**  
 WHERE CROSSING EXISTING ASPHALT, THE ENTIRE TRENCH EXCEPT FOR THE TOP 1" SHALL BE BACKFILLED WITH SAND & COMPACTED. 12" OF 2" SPOK CEMENT FLOWABLE FILL AND 2" COLD LAY SHALL BE INSTALLED.  
 UNPAVED GRAVEL SURFACES SHALL RECEIVE SAME FLOWABLE FILL AND 8" CRUSHED LIMESTONE BASE. NO SEPARATE PAY FOR ASPHALT OR GRAVEL RETAIN.

**NOTES:**  
 1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CALL THE TXDOT AREA INSPECTOR 48 HOURS PRIOR TO THE START OF CONSTRUCTION.

NO.	REVISION	DATE	SCALE	BY	CHK	DATE	FILE	NO.	DATE	BY	CHK

NO.	REVISION	DATE	SCALE	BY	CHK	DATE	FILE	NO.	DATE	BY	CHK

**TYPICAL BLOCKING DIMENSIONS**

PIPE DIA. (INCHES)	MINIMUM NO. OF BLOCKS PER LINE	TYPICAL DIMENSIONS OF BLOCKS (INCHES)	TYPICAL VOLUME OF CONCRETE REQUIRED (CU. YD.)
2	2.0	12" x 24"	3.0
2 1/2	2.5	15" x 24"	4.0
3	3.0	16" x 27"	4.5
4	4.0	18" x 32"	6.0
6	6.0	24" x 36"	9.0
8	8.0	29" x 40"	12.0
10	10.0	30" x 48"	15.0
12	12.0	36" x 48"	18.0
14	14.0	36" x 58"	21.0
16	16.0	39" x 59"	24.0
18	18.0	42" x 62"	27.0

\* VALUES CONSIDERED 4" DISTANCE BETWEEN PIPE AND BEARING POINT