

N O T E S

PLAN NUMBER	DATE	PROJECT NAME	SHEET NO.
8	ND	M-1-988(02)000	3

1. **GENERAL:** The Engineer will attend to the removal of existing fences to the right-of-way line and to the relocation or adjustment of utility facilities as shown on the plans. All privately owned light poles, guard rail, signs, etc. within the right-of-way limits shall be removed by the owners.
2. **UTILITIES:** Separate plans, if any, showing the utility relocation or adjustment work to be performed by the utility companies to accommodate highway construction will be made available to the Contractor upon request to the Engineer. The Contractor shall contact the local utility companies to determine the location of utilities prior to the beginning of construction.
3. **SHRINKAGE:** 25% additional volume in yardage computed by the end area method is allowed for shrinkage in earth embankment.
4. **COMPACTION & DENSITY CONTROL:** Compaction and density control shall be in accordance with Sec. 203-2.3.3, except that if the embankment is unstable (as evidenced by sponginess or rutting) When compacted to the required density, it will be necessary to dry the soils to obtain adequate stability. In some cases it may require drying the soils below optimum moisture. The cost of such drying will be incidental to the price bid for Common Excavation.
5. **JOINTS FOR SEWER PIPE:** Joints shall be sealed with rubber gaskets or with a sealer approved by the Engineer.
6. **DRAINAGE:** If the existing facilities become inoperable before the new drainage system is functioning, the Contractor shall provide sufficient temporary pumping and drainage facilities to keep the roadway drained to the satisfaction of the Engineer. Not a separate pay item, cost to be considered incidental to other items.
7. **EXISTING SIGNS:** All existing traffic signs that interfere with the construction of this project will be removed and if required, reinstalled and maintained by the Contractor.
8. **CURB RETURNS:** The grades for all curb returns shall be established by the Engineer in the field after consultation with the Mandan City Engineer.
9. **ADJUSTMENT OR RELOCATION OF WATER & SEWER LINES:** If it is determined by the Engineer in the field that adjustment or relocation of other water and sewer lines is necessary to facilitate the installation of the new storm sewer, such work shall be done in accordance with Sec. 109-5 of the Standard Specifications as "Extra or Force Account Work"
10. **MAINTAINING ACCESS BY CONSTRUCTION SIGNING:** The Contractor will be responsible for providing access to all residential dwellings and business establishments adjacent to this project. Construction signing plans show proposed construction signing layouts for various work areas and maintaining traffic. The construction signing plans may be modified to meet work schedules and field conditions, as deemed necessary and approved by the Engineer in the field.
11. **BEDDING & BACKFILL:** All trenches, except those at Sta. 17+34 & crossing the roadway, that lie within curb and gutter sections shall have granular material installed around the pipe and backfilled with existing material to the subgrade elevation as shown on the Detail Sheet. The quality of the granular material shall be approved by the Engineer in the field. The granular material shall be considered incidental to other bid items and no separate pay item will be made for this material. The pipes at Sta. 17+34 and 25+47 shall be backfilled with existing material.
12. **WATER:** The cost of applying water for compaction and for use as a dust palliative, as required, shall be included in the price bid for "Water".
13. **WORK SCHEDULE:** In order to minimize interference with traffic operations a detailed schedule shall be agreed to prior to beginning work between the Engineer, utility companies and the Contractor and Sub-Contractors, if any.
14. **AUTOMATIC BATCHING EQUIPMENT:** The automatic batching equipment, as specified in Sec. 406-3.13.5 of the Standard Specifications, will not be required on this project.
15. **CONCRETE PROTECTION:** Adjacent concrete shall be protected during the application of any bituminous and asphalt materials to prevent any discoloration of the concrete. Failure to comply will result in the Contractor having to clean the concrete to the satisfaction of the Engineer at his own expense.
16. **EMULSIFIED ASPHALT:** When directed by the Engineer, Emulsified Asphalt for Tack Coat and Prime Coat shall be diluted prior to application with water in a 50:50 ratio or other approved proportion. Cost of water shall be included in the price bid for other items.
17. **CURB & GUTTER:** Curb & Gutter, Type I, shall be as shown for "Section A" on Standard Drawing D-708-1.
18. **CLEARING & GRUBBING:** All trees, shrubs, stumps, roots and other protruding obstructions within the construction limits shall be cleared and/or grubbed according to Sec. 201 of the Standard Specifications. The cost to clear and/or grub shall be in the lump sum bid for "clearing & Grubbing"
19. **HYDRANT RELOCATION:** The cost of plugging abandoned lines due to hydrant relocation shall be considered incidental to the price bid for "Relocate Hydrant".