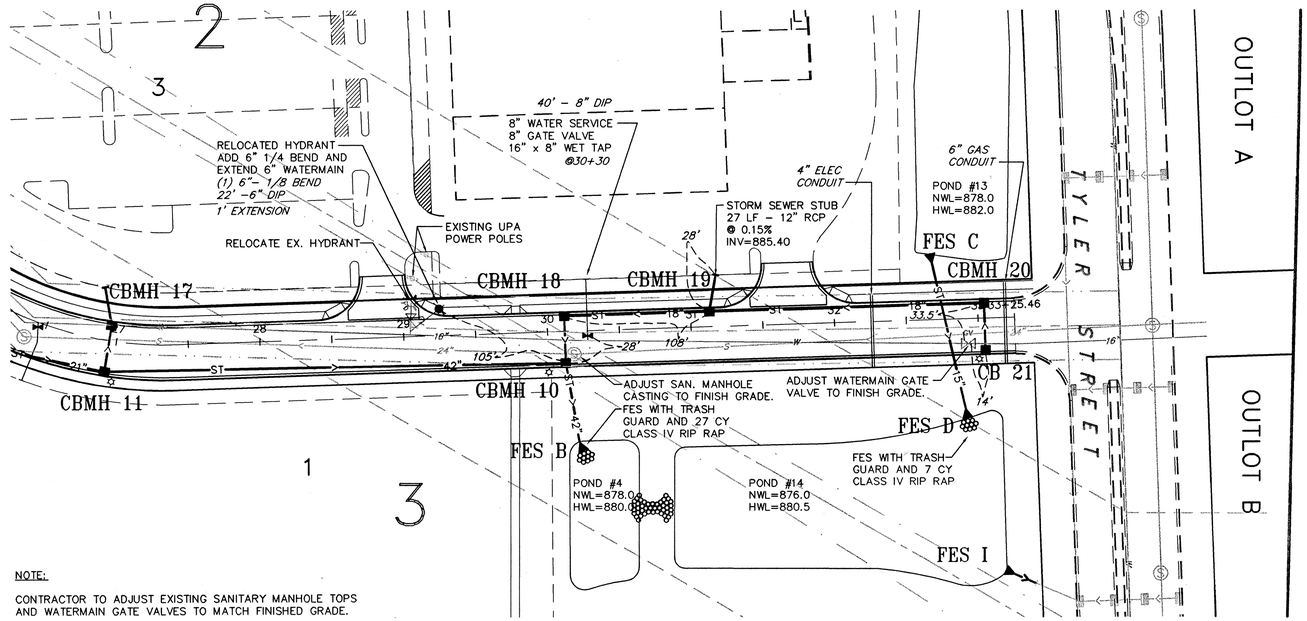
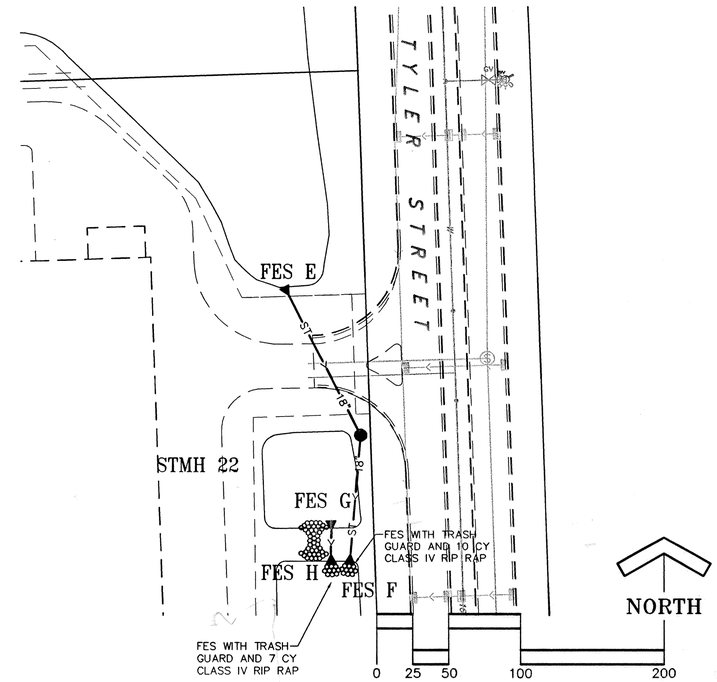
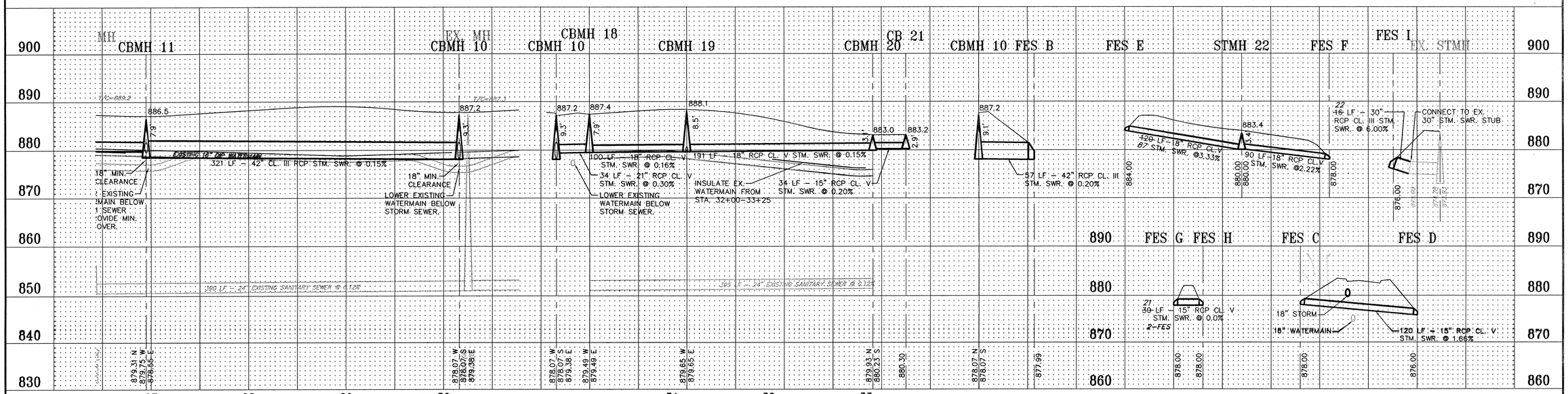



NOTE:

CONTRACTOR TO ADJUST EXISTING SANITARY MANHOLE TOPS AND WATERMAIN GATE VALVES TO MATCH FINISHED GRADE.




# 179th Street N.W.




THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE EXCAVATING CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NOTES:

1. ALL WATERMAIN SHALL BE DUCTILE IRON, CLASS 52, WITH 7.5 FOOT MINIMUM COVER.
2. ALL SANITARY SEWER PIPE SHALL BE PVC ASTM 3034 SDR 35 UNLESS OTHERWISE INDICATED.
3. CONTRACTOR SHALL VERIFY EXISTING WATERMAIN DEPTH AT ALL STORM SEWER CROSSINGS.
4. ALL STORM SEWER STUBS SHALL BE BULKHEADED BY THE CONTRACTOR.
5. INSULLATION FOR WATERMAIN TO BE 4" THICK BY 4' WIDE CENTERED ON THE WATERMAIN.

**RECORD PLAN**
**JUNE 2001**

**Revisions**

| No. | Date | By | Remarks |
|---|---|---|---|
| A | 9/9/99 | EWM | Revised per city comment |
| B | 10/7/99 | EWM | Revised Stm. CBMH 11,12,17,18, serv. lengths |
| C | 11/18/99 | EWM | Revised per city comment |
| D | 2/28/00 | EWM | Revised serv. to Lot 3, Bl. 2 and Note 5 |
| E | 4/12/00 | EWM | Revised storm run from FES E to FES F |
| F | 6/29/01 | MRJ | RECORD PLAN |

I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of Minnesota.

Name David Nash — David J. Nash
Date 9/9/99
Registration Number 21836

| | |
|---|---|
| Scale | 1"=50' |
| Designed | EWM |
| Drawn | EWM |
| Date | 8/2/99 |
| Checked | DJN |
| Approved | |

MFRA
McCombs Frank Roos Associates, Inc.

*Engineering • Planning • Surveying*

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*E-Mail: cadd@mfra.com*

**Client**
**Associated Developers**
**Apple Valley, MN**

**Project**
**Elk River Crossing**
**Elk River, MN**

**Sheet Title**
**Storm Sewer and Service Plan**

**Sheet** 10/13
**Revision** F
**MFRA FILE NO.: 10667**

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