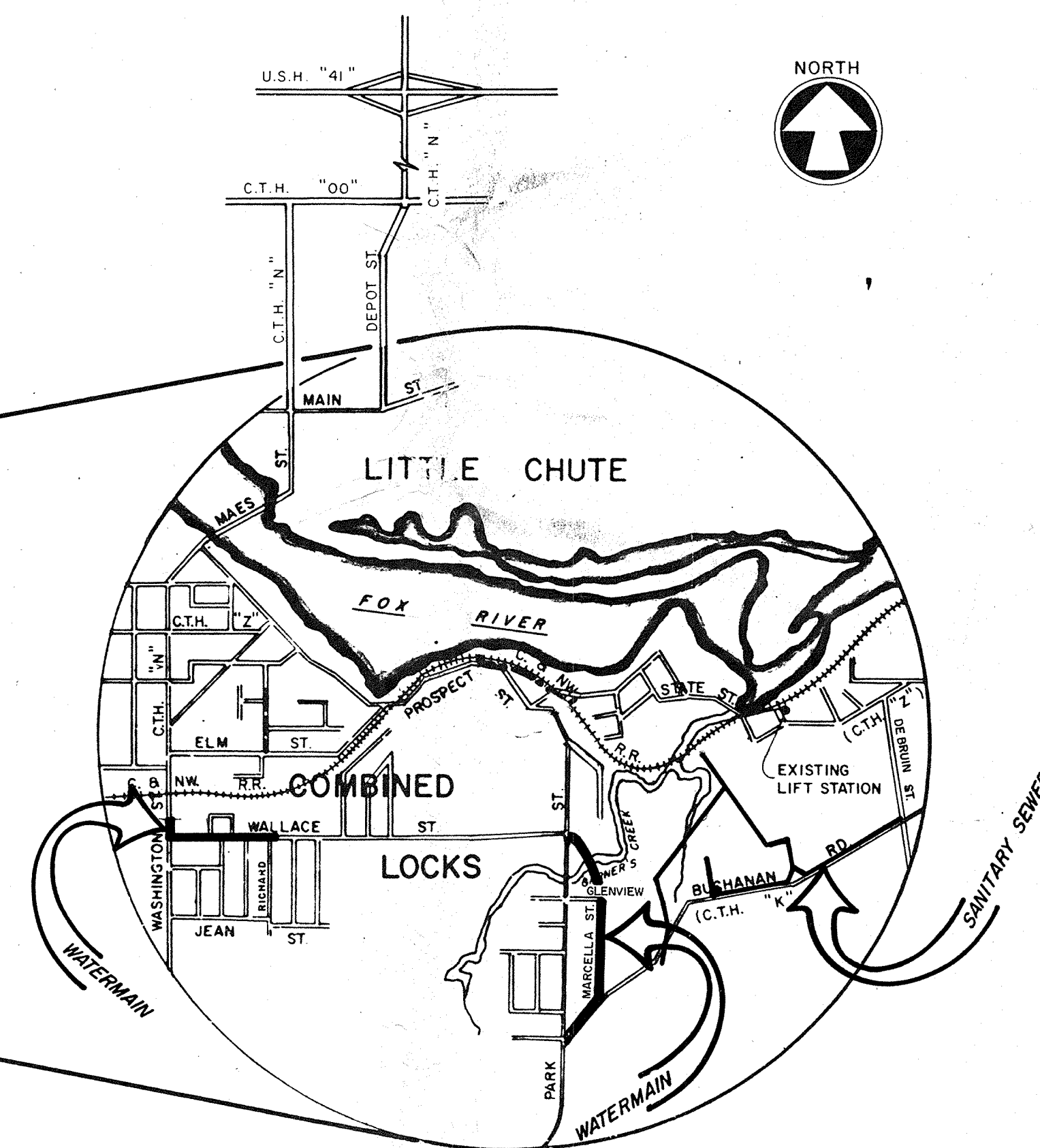
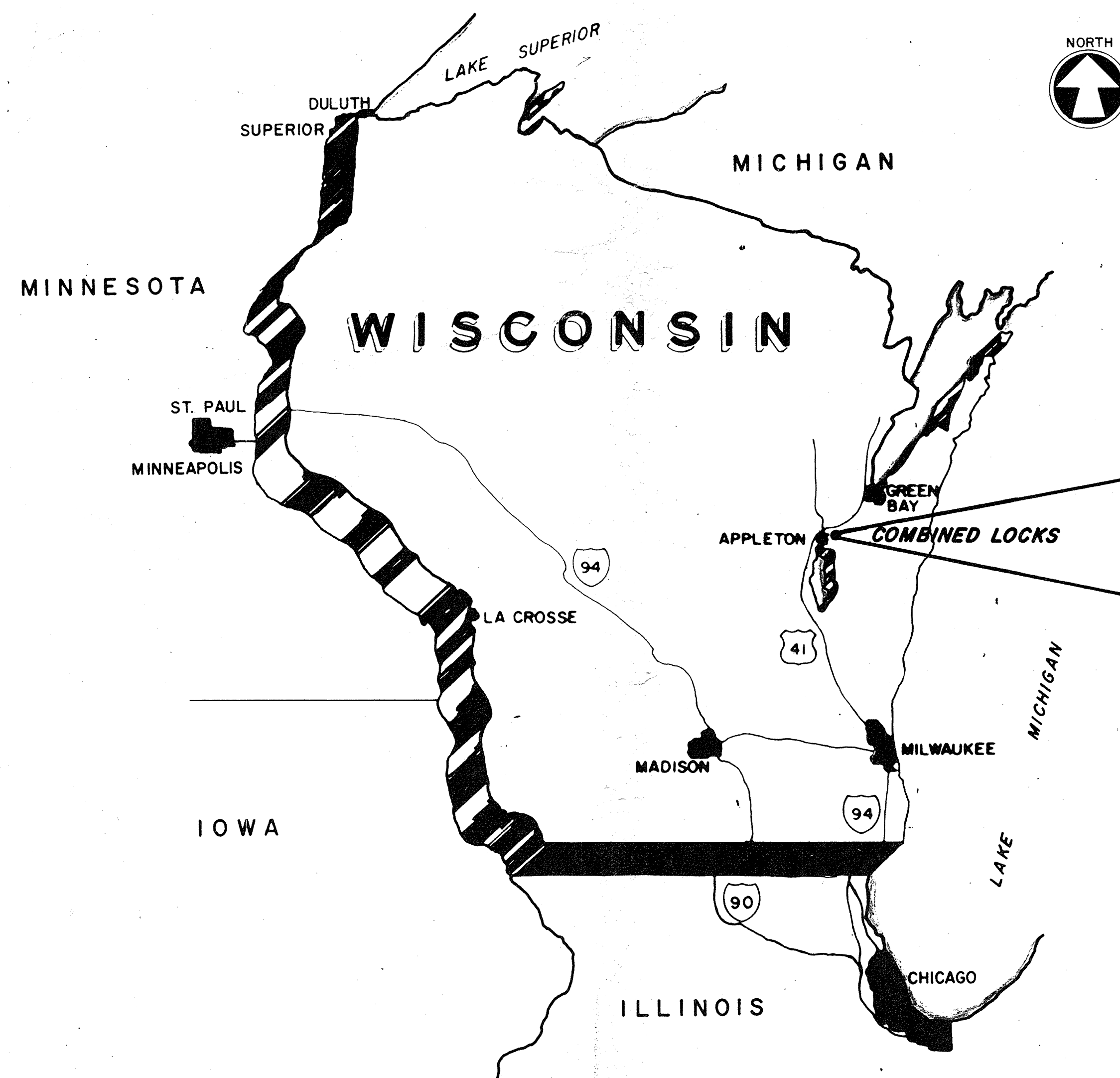


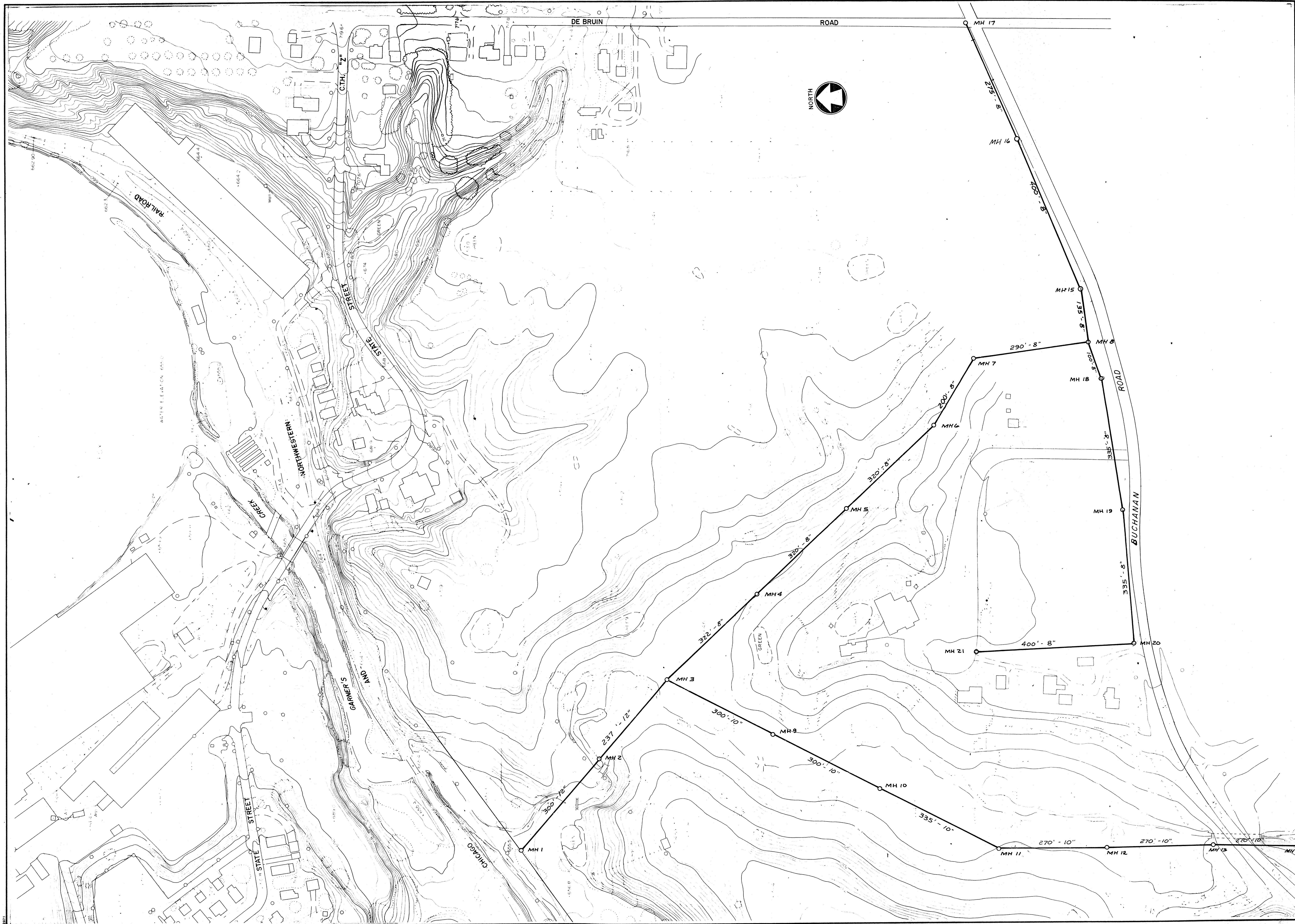
K-3

# SANITARY SEWER AND WATER MAIN CONSTRUCTION VILLAGE OF COMBINED LOCKS OUTAGAMIE COUNTY ————— WISCONSIN



WISCONSIN  
DENNIS R. BUSCHKE  
E-16879  
MENASHA, WISCONSIN  
PROFESSIONAL ENGINEER  
Dennis R. Buschke  
2/17/87

McMAHON ASSOCIATES, INC.  
CONSULTING ENGINEERS  
MENASHA, WISCONSIN



McMAHON  
ASSOCIATES  
INC.

CONSULTING  
ENGINEERS

1377 Midway Road  
P.O. Box 405  
MENASHA, WISCONSIN  
54952  
Phone (414) 739-0391

REVISIONS

INTERCEPTOR SEWER EXTENSIONS  
VILLAGE OF COMBINED LOCKS

DESIGNED D.M.D.  
DRAWN K.R.H.  
CHECKED *205*  
SCALE 1" = 100'

DATE  
SEPT., 1986

1  
OF SHEETS  
FILE NO.  
M4-A-154



McMAHON  
ASSOCIATES  
INC.

ENGINEERS

MENASHA, WISCONSIN

REVISIONS

INTERCEPTOR SEWER EXTENSIONS  
VILLAGE OF COMBINED LOCKS  
MILL CRAFT PROPERTY

DESIGNED DRB  
DRAWN KRH  
CHECKED *[Signature]*  
SCALE HORIZ. 1"=50'  
VERT. 1"=5'

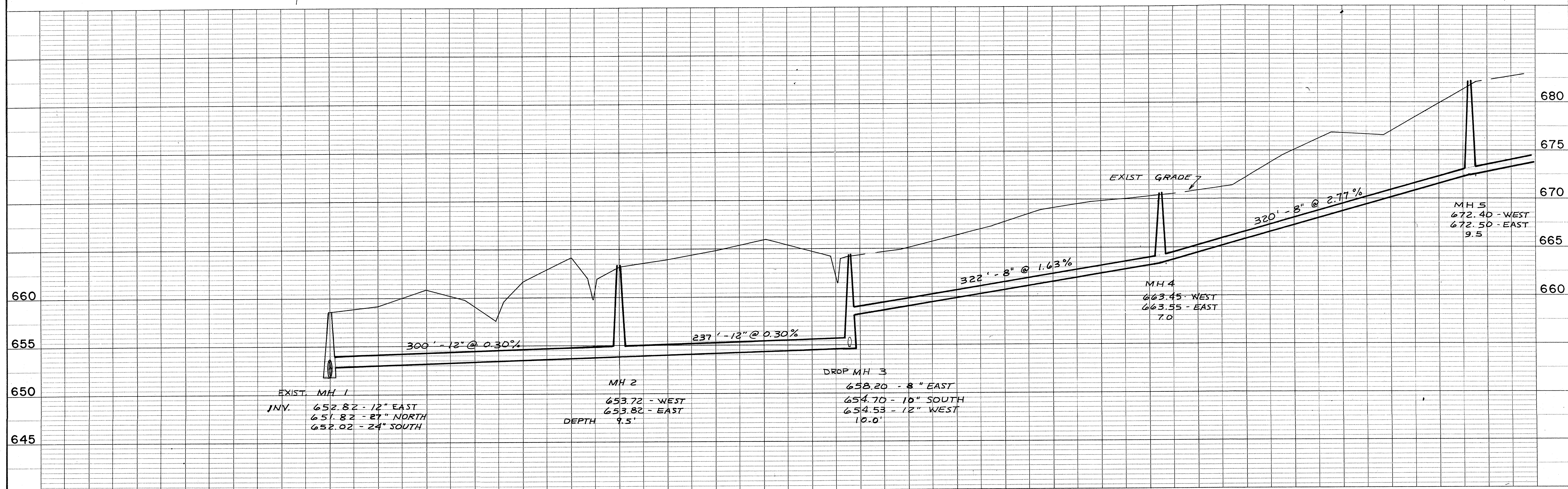
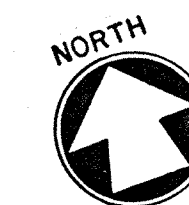
DATE  
SEPT., 1986

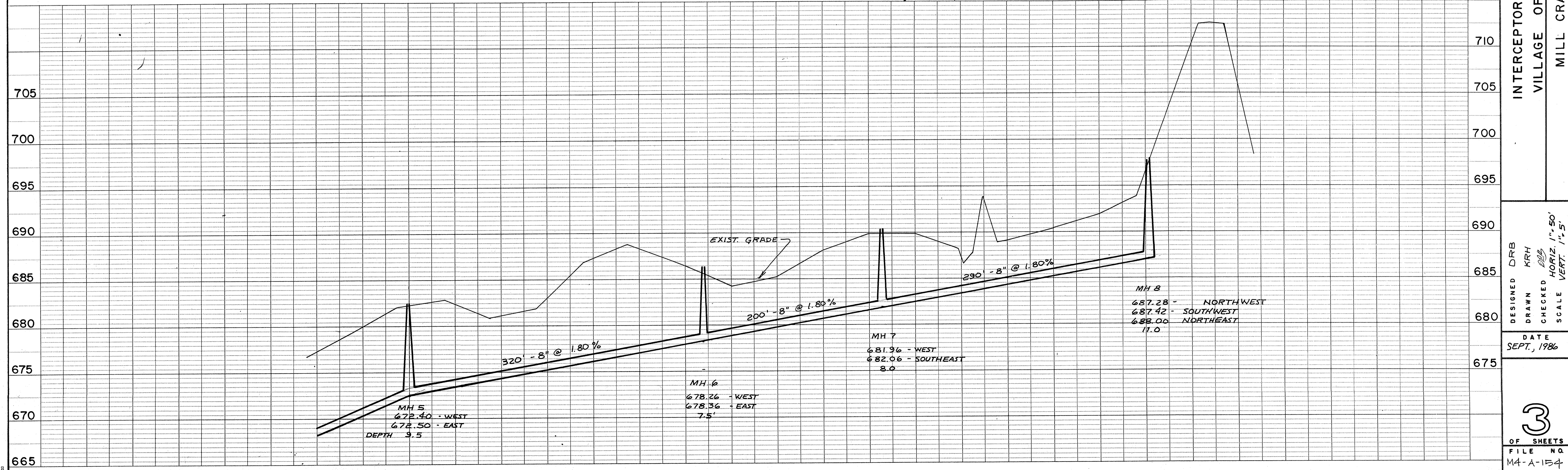
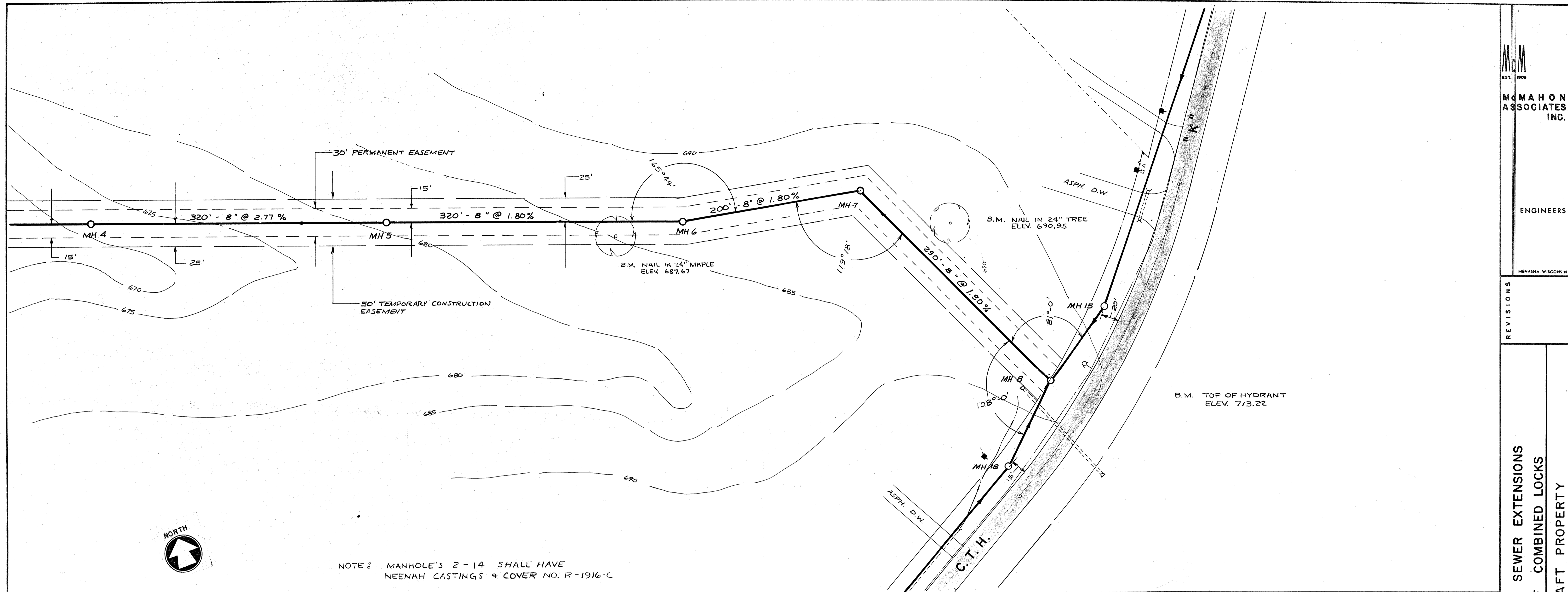
2  
OF SHEETS  
FILE NO.  
M4-A-154

MANHOLE TO BE CORED AND  
SEALED WITH AN APPROVED  
WATER TIGHT SEAL

NOTE: MANHOLES 2 THRU 14 SHALL  
HAVE NEENAH CASTING &  
COVER R-1916-C

SEE SHEET 4





McMAHON ASSOCIATES INC.

ENGINEERS

REVISIONS

INTERCEPTOR SEWER EXTENSIONS

VILLAGE OF COMBINED LOCKS

MILL CRAFT PROPERTY

DESIGNED DRB

DRAWN KRH

CHECKED [Signature]

DATE SEPT., 1986

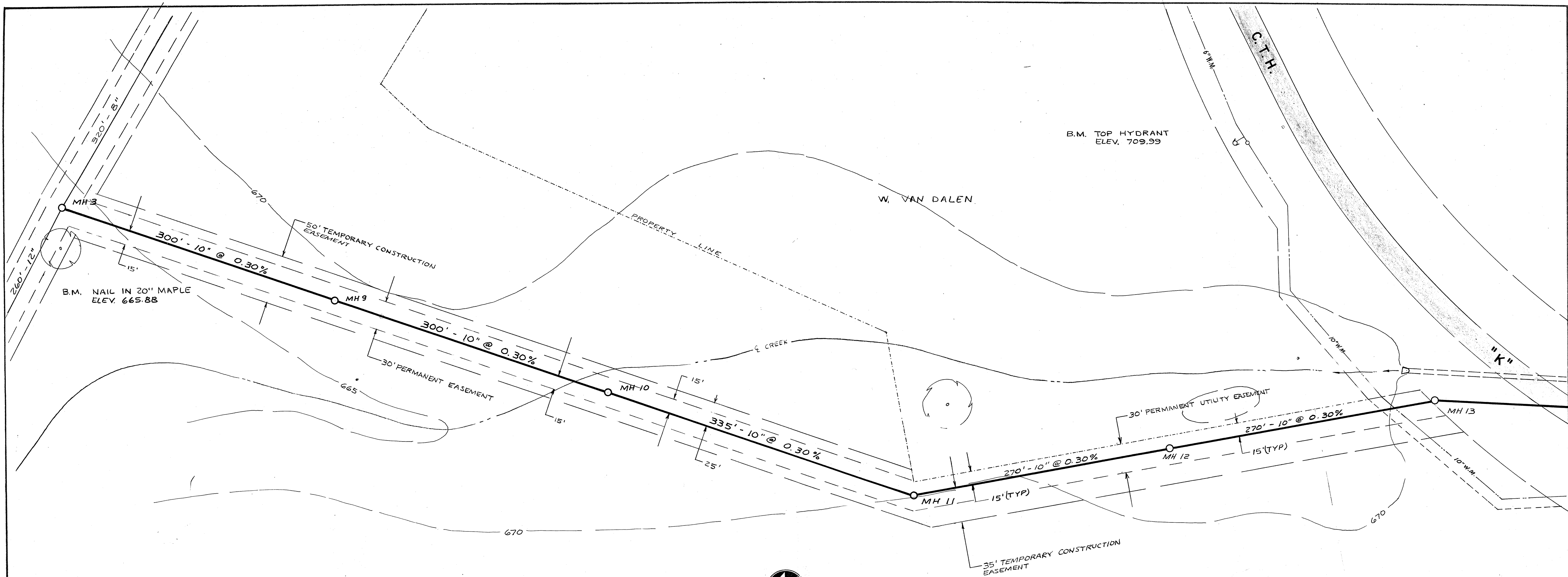
SCALE HORIZ 1"=50'

VERT. 1"=5'

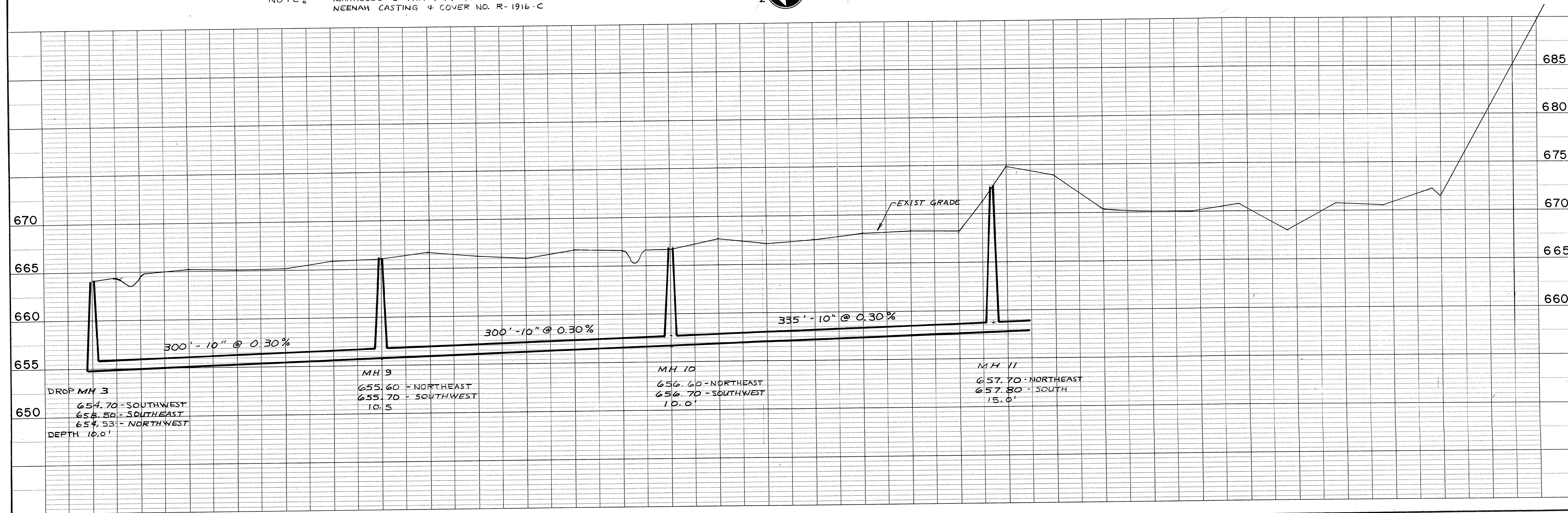
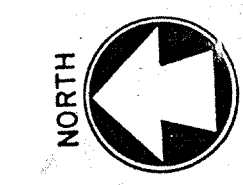
3


OF SHEETS

FILE NO. M4-A-154



NOTE: MANHOLES 2 THRU. 14 SHALL HAVE NEENAH CASTING & COVER NO. R-1916-C





**McMAHON ASSOCIATES INC.**

ENGINEERS

MEMPHIS, TENNESSEE

REVISIONS

| NO. | DESCRIPTION |
|-----|-------------|
|     |             |
|     |             |
|     |             |

**INTERCEPTOR SEWER EXTENSIONS**

**VILLAGE OF COMBINED LOCKS**

**MILL CRAFT PROPERTY**

DESIGNED *DRB*

DRAWN *KRM*

CHECKED *DRB*

DATE **SEPT., 1986**

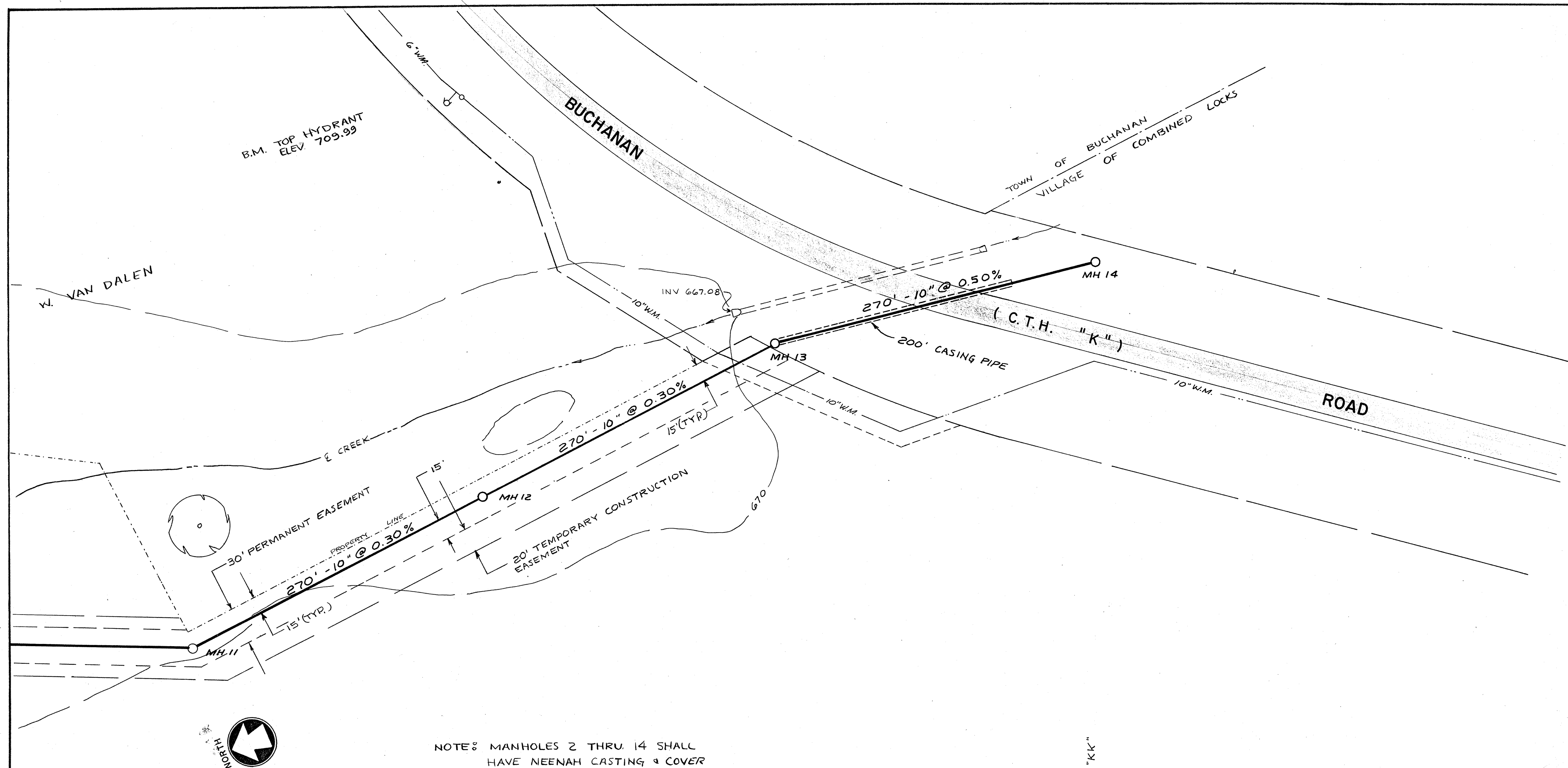
SCALE **HORIZ. 1"=50'**

VERT. **1"=5'**

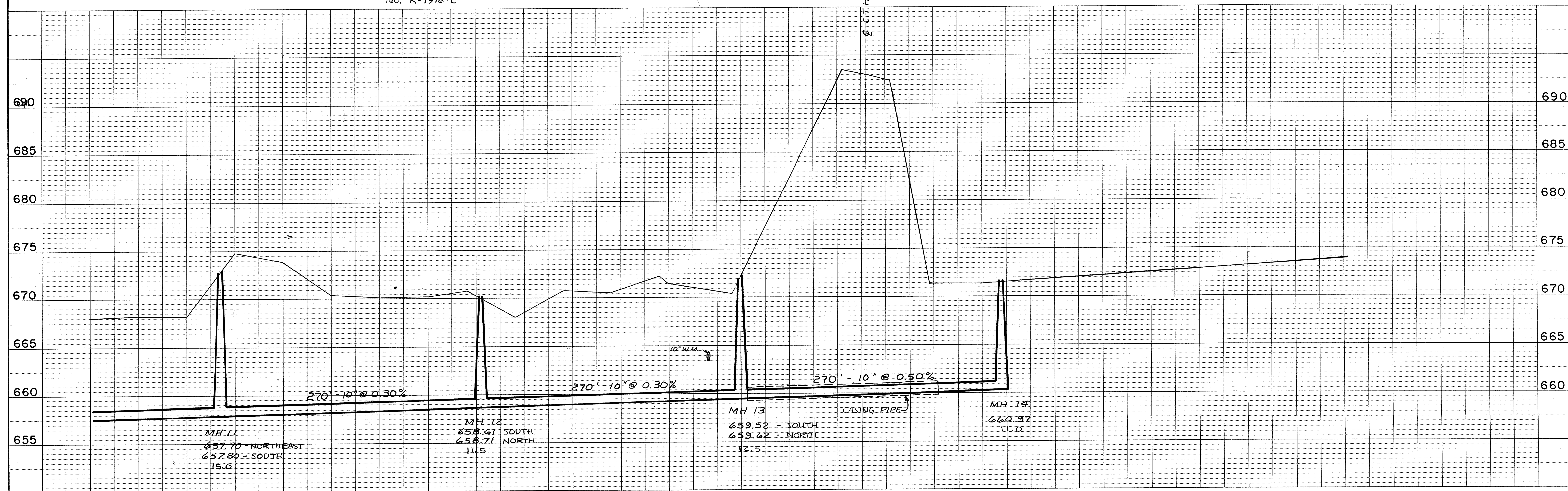
**4**

OF SHEETS

FILE NO. **M4-A-154**



NOTE: MANHOLES 2 THRU 14 SHALL  
HAVE NEENAH CASTING & COVER  
NO. R-1916-C



MAHON  
ASSOCIATES  
INC.

ENGINEERS

MENASHA, WISCONSIN

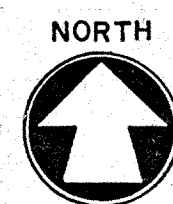
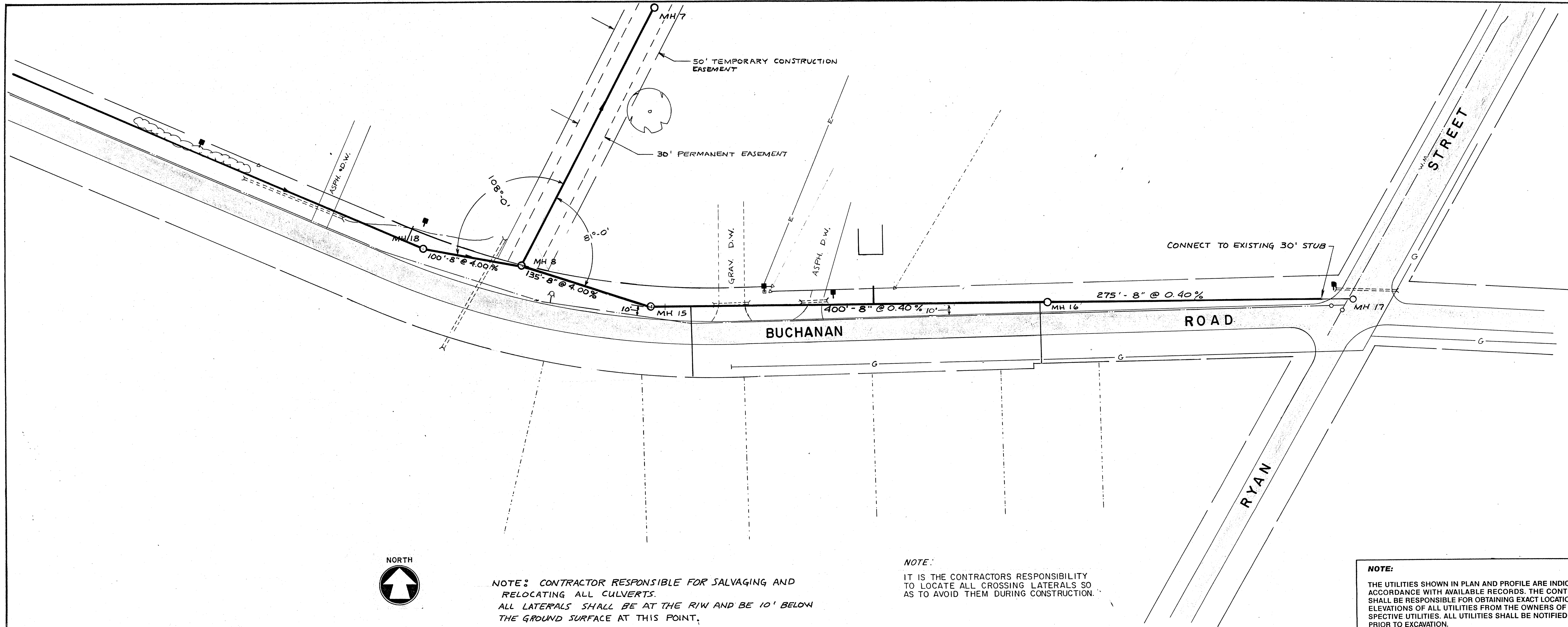
REVISIONS

INTERCEPTOR SEWER EXTENSIONS  
VILLAGE OF COMBINED LOCKS  
MILL CRAFT PROPERTY

DESIGNED D.N.D.  
DRAWN K.R.H.  
CHECKED D.D.D.  
SCALE HORIZ. 1"=50'  
VERT. 1"=5'

DATE  
SEPT., 1986

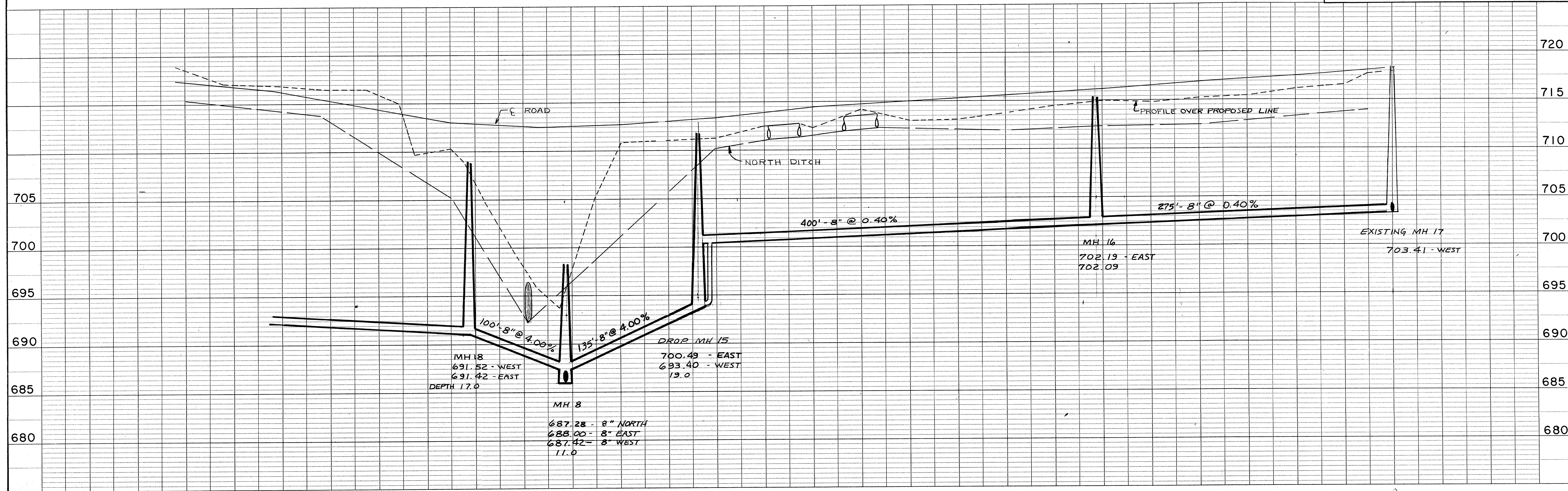
5  
OF SHEETS  
FILE NO.  
M4-A-154



NOTE: CONTRACTOR RESPONSIBLE FOR SALVAGING AND RELOCATING ALL CULVERTS. ALL LATERALS SHALL BE AT THE R/W AND BE 10' BELOW THE GROUND SURFACE AT THIS POINT.

NOTE: IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL CROSSING LATERALS SO AS TO AVOID THEM DURING CONSTRUCTION.

NOTE: THE UTILITIES SHOWN IN PLAN AND PROFILE ARE INDICATED IN ACCORDANCE WITH AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING EXACT LOCATIONS AND ELEVATIONS OF ALL UTILITIES FROM THE OWNERS OF THE RESPECTIVE UTILITIES. ALL UTILITIES SHALL BE NOTIFIED 72 HRS. PRIOR TO EXCAVATION.



EST. 1993  
**McMAHON ASSOCIATES INC.**  
 ENGINEERS  
 MENASHA, WISCONSIN

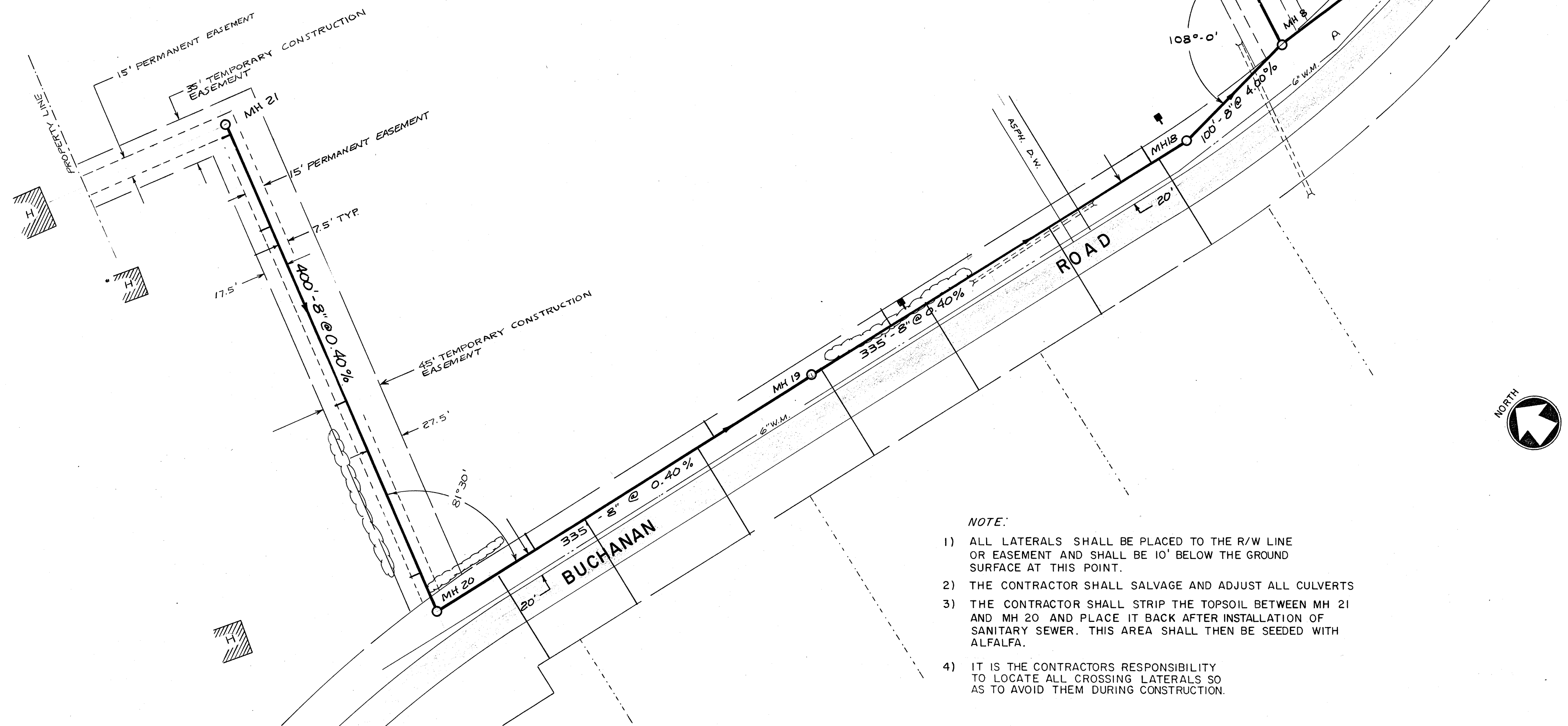
REVISIONS

INTERCEPTOR SEWER EXTENSIONS  
 VILLAGE OF COMBINED LOCKS  
 BUCHANAN ROAD

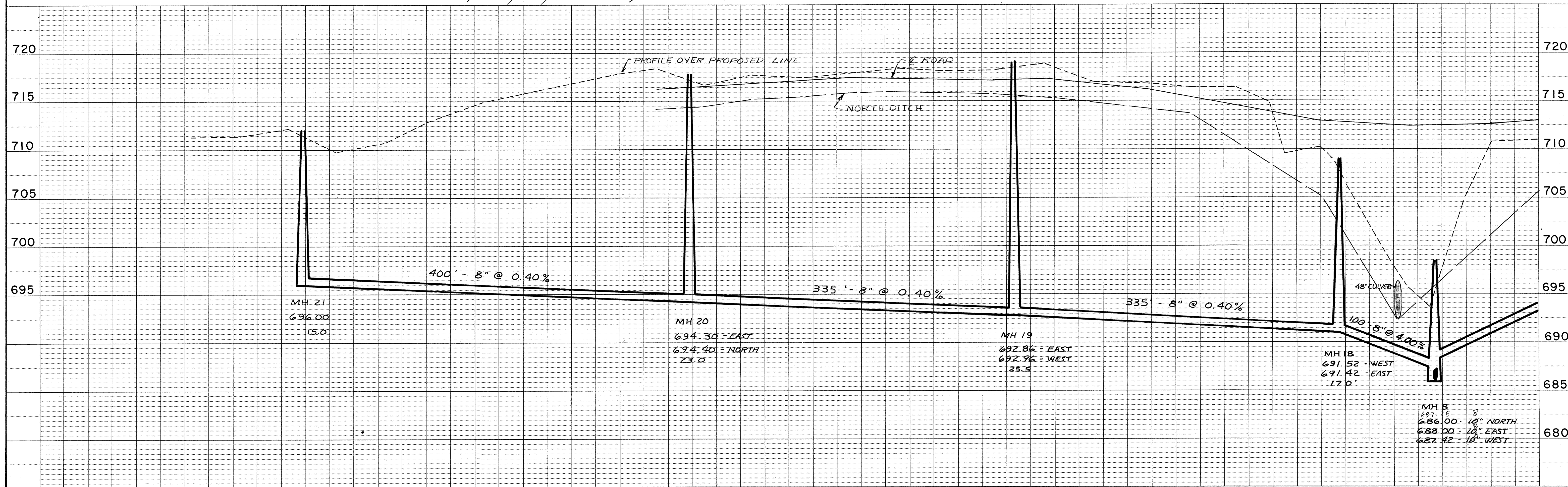
DESIGNED DND  
 DRAWN KPH  
 CHECKED DND  
 SCALE HORIZ. 1"=50'  
 VERT. 1"=5'

DATE  
 DEC., 1986

6  
 OF SHEETS  
 FILE NO.  
 M4-A-154



- NOTE:
- 1) ALL LATERALS SHALL BE PLACED TO THE R/W LINE OR EASEMENT AND SHALL BE 10' BELOW THE GROUND SURFACE AT THIS POINT.
  - 2) THE CONTRACTOR SHALL SALVAGE AND ADJUST ALL CULVERTS
  - 3) THE CONTRACTOR SHALL STRIP THE TOPSOIL BETWEEN MH 21 AND MH 20 AND PLACE IT BACK AFTER INSTALLATION OF SANITARY SEWER. THIS AREA SHALL THEN BE SEEDED WITH ALFALFA.
  - 4) IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL CROSSING LATERALS SO AS TO AVOID THEM DURING CONSTRUCTION.



McMAHON ASSOCIATES INC.

ENGINEERS

MENASHA, WISCONSIN

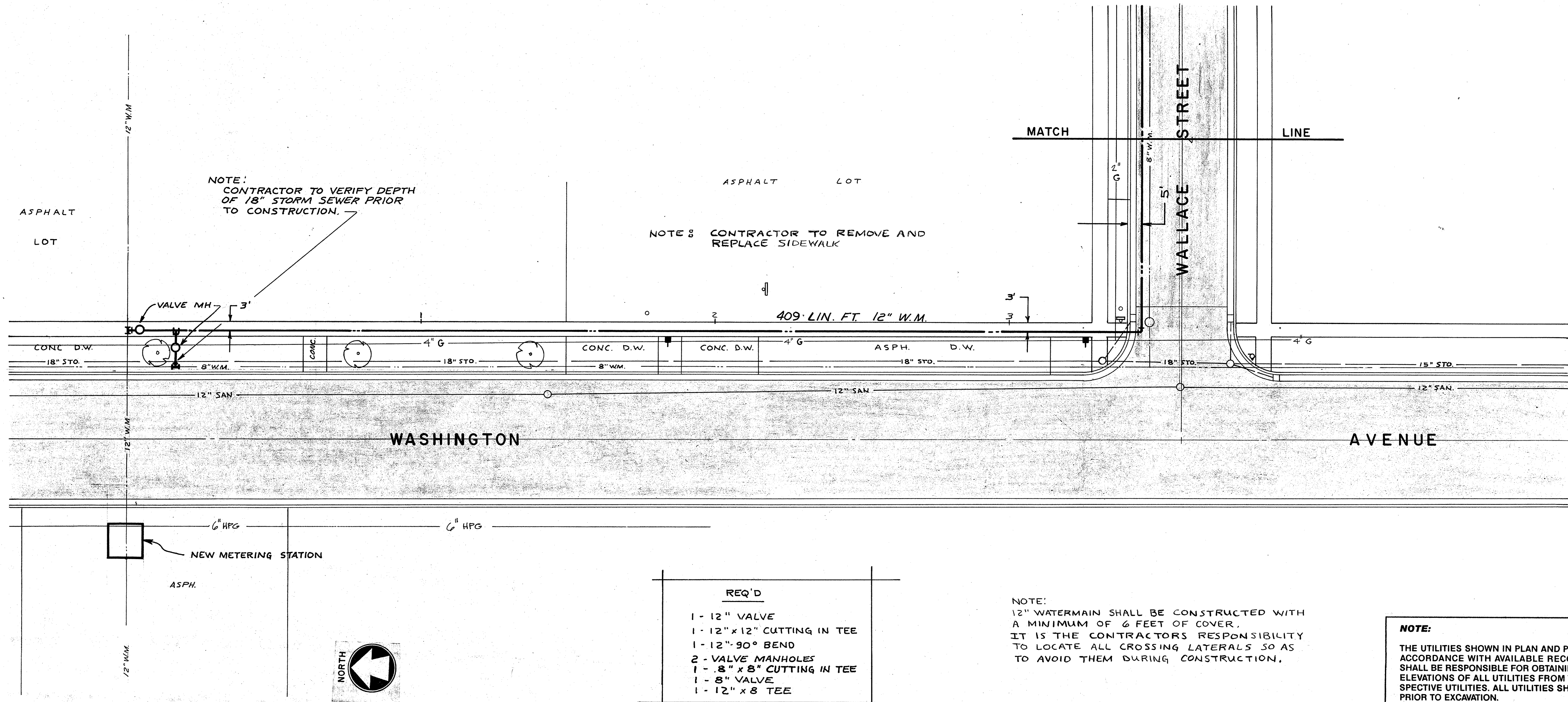
REVISIONS

INTERCEPTOR SEWER EXTENSIONS  
VILLAGE OF COMBINED LOCKS  
BUCHANAN ROAD

DESIGNED DND  
DRAWN KRH  
CHECKED DBS  
SCALE HORIZ. 1"=50'  
VERT. 1"=5'

DATE  
DEC., 1986

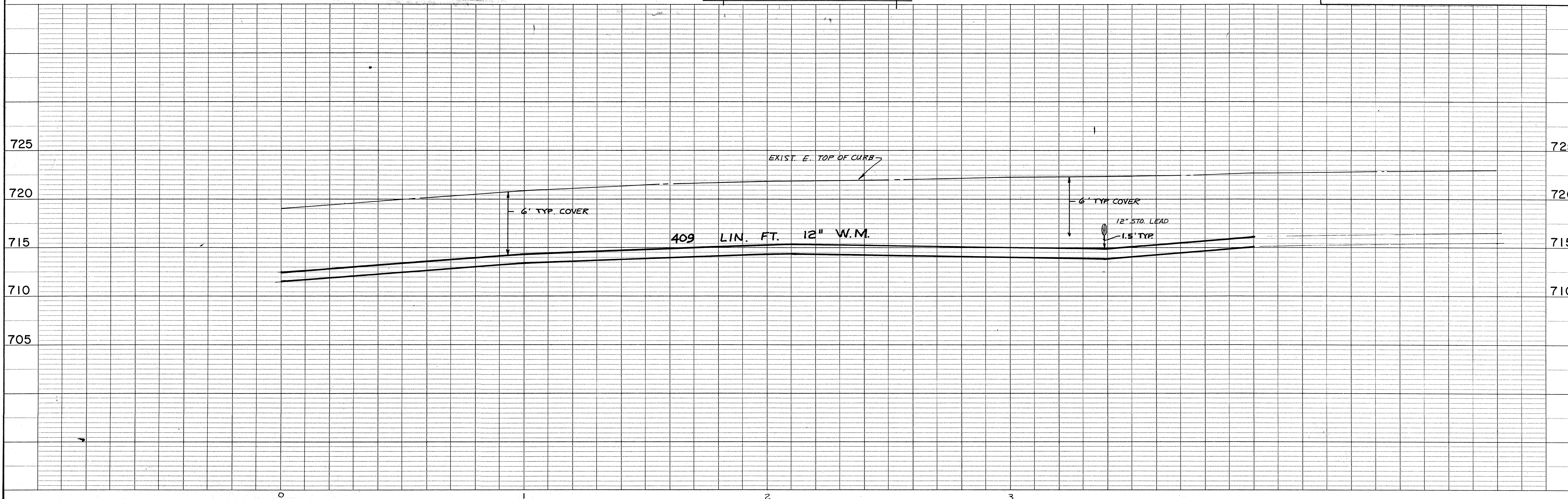
7  
OF SHEETS  
FILE NO.  
M4-A-154

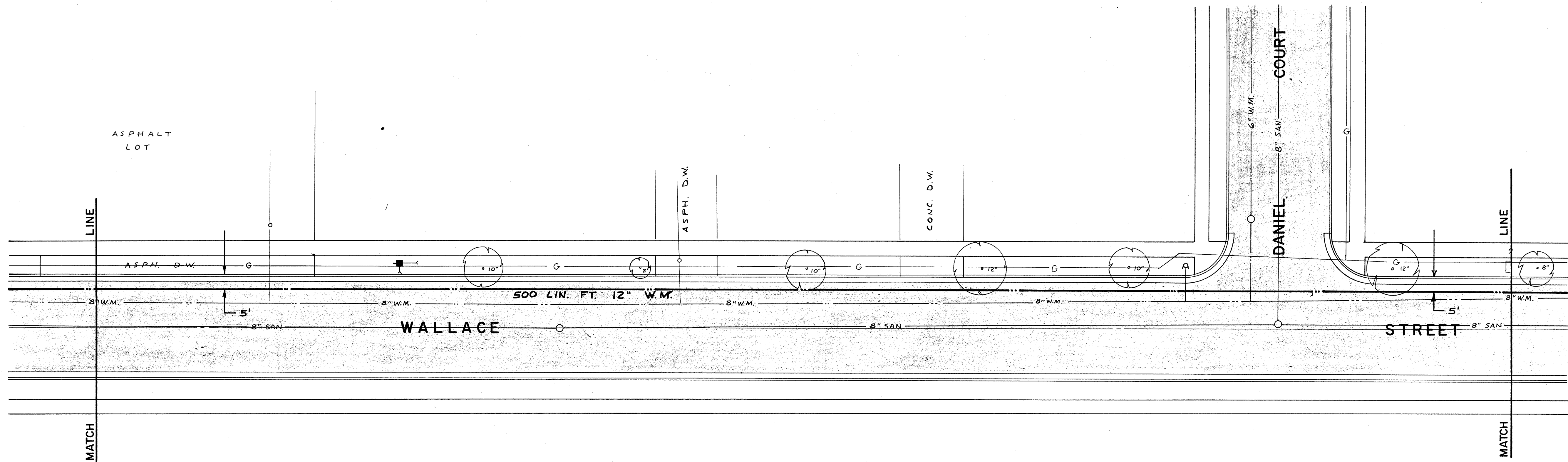


- REQ'D
- 1 - 12" VALVE
  - 1 - 12" x 12" CUTTING IN TEE
  - 1 - 12" 90° BEND
  - 2 - VALVE MANHOLES
  - 1 - 8" x 8" CUTTING IN TEE
  - 1 - 8" VALVE
  - 1 - 12" x 8 TEE

NOTE:  
12" WATERMAIN SHALL BE CONSTRUCTED WITH A MINIMUM OF 6 FEET OF COVER. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL CROSSING LATERALS SO AS TO AVOID THEM DURING CONSTRUCTION.

NOTE:  
THE UTILITIES SHOWN IN PLAN AND PROFILE ARE INDICATED IN ACCORDANCE WITH AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING EXACT LOCATIONS AND ELEVATIONS OF ALL UTILITIES FROM THE OWNERS OF THE RESPECTIVE UTILITIES. ALL UTILITIES SHALL BE NOTIFIED 72 HRS. PRIOR TO EXCAVATION.

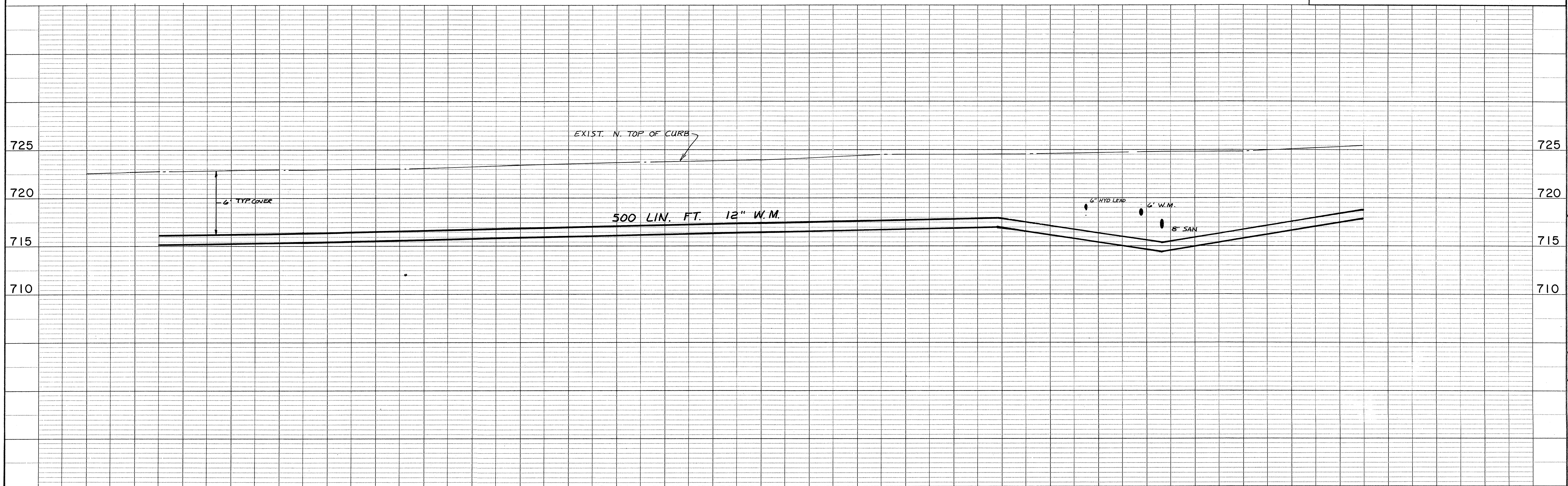





NOTE  
12" WATERMAIN SHALL BE CONSTRUCTED  
WITH A MINIMUM OF 6 FEET OF COVER.  
IT IS THE CONTRACTOR'S RESPONSIBILITY  
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NOTE:  
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**McMAHON ASSOCIATES INC.**

ENGINEERS

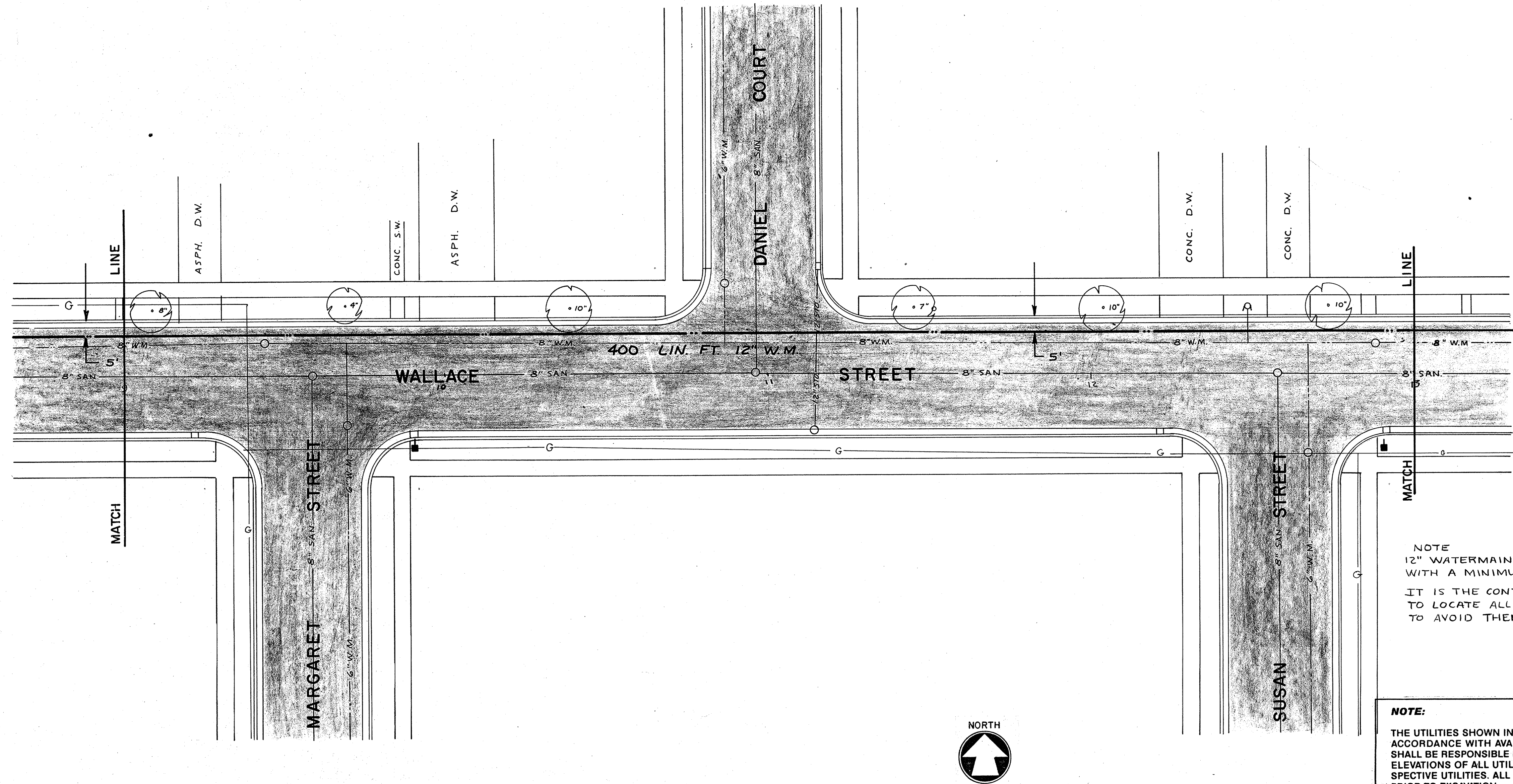
WATERMAIN CONSTRUCTION  
VILLAGE OF COMBINED LOCKS  
WALLACE STREET

|   |                              |
|---|------------------------------|
| <p>DESIGNED <i>DRB</i></p> <p>DRAWN <i>JRH</i></p> <p>CHECKED <i>DRB</i></p> <p>SCALE</p> | <p>DATE<br/>AUGUST, 1986</p> |
|---|------------------------------|

OF SHEETS

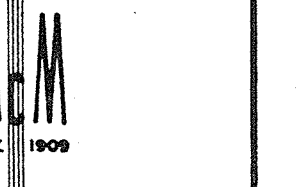
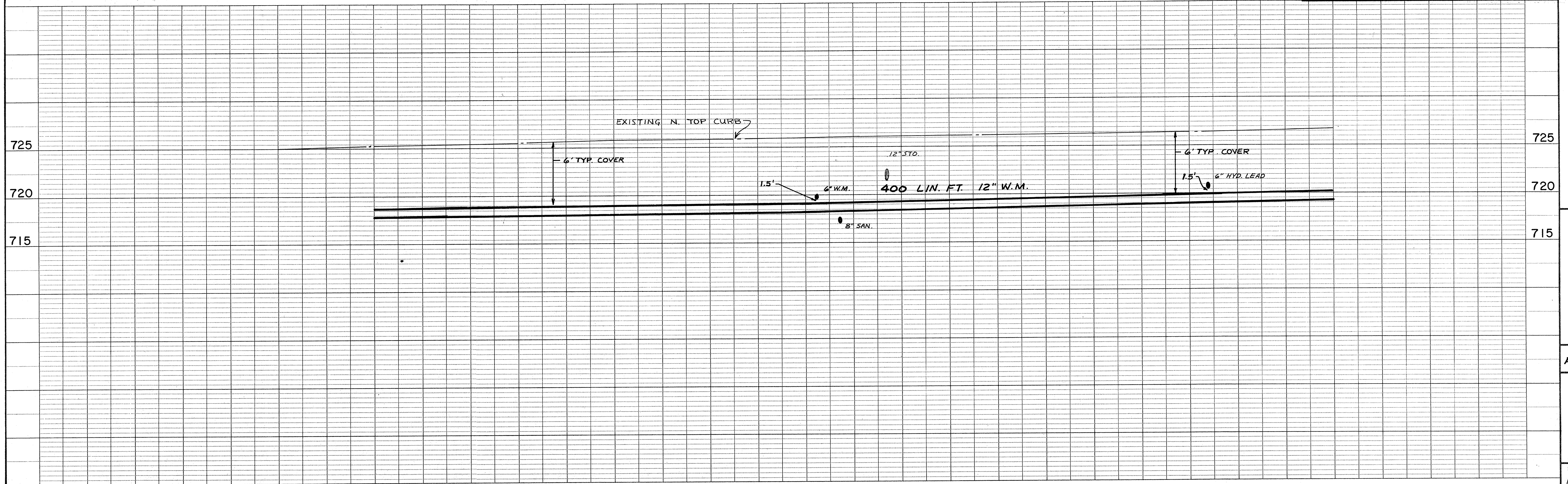
FILE NO.

M 4-A-154



NOTE:  
12" WATERMAIN SHALL BE CONSTRUCTED  
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IT IS THE CONTRACTORS RESPONSIBILITY  
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PRIOR TO EXCAVATION.



McMAHON  
ASSOCIATES  
INC.

ENGINEERS

MENASHA, WISCONSIN

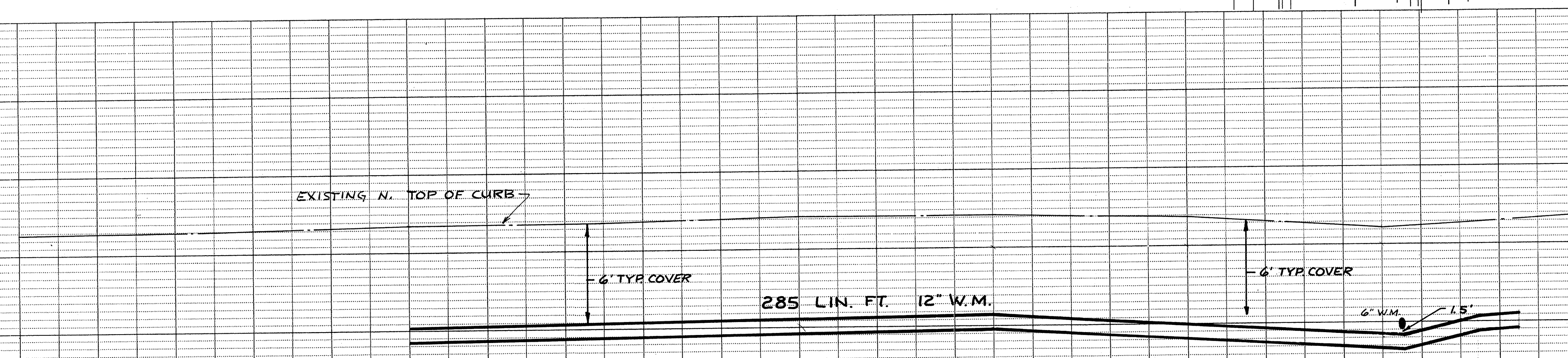
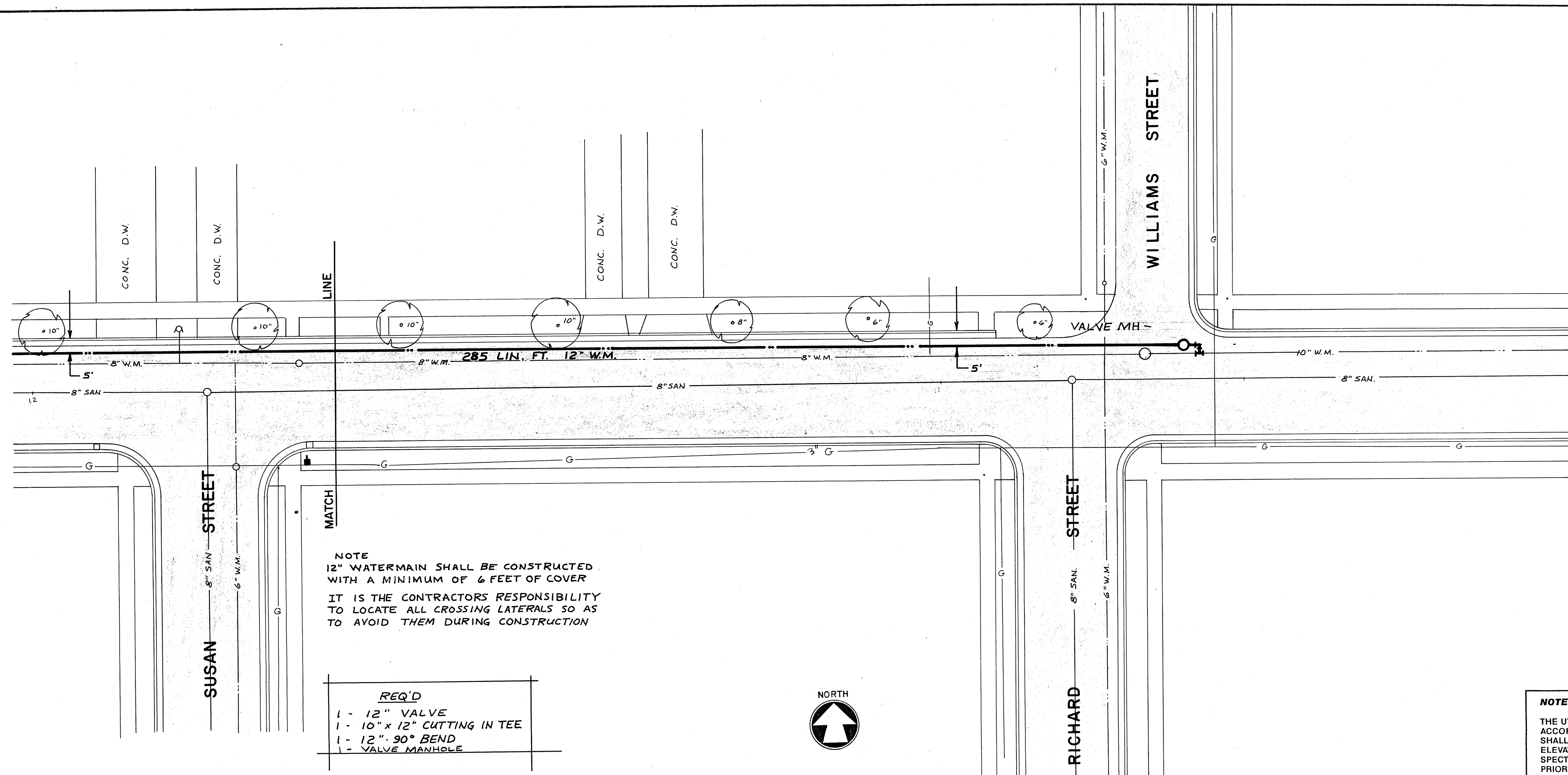
REVISIONS

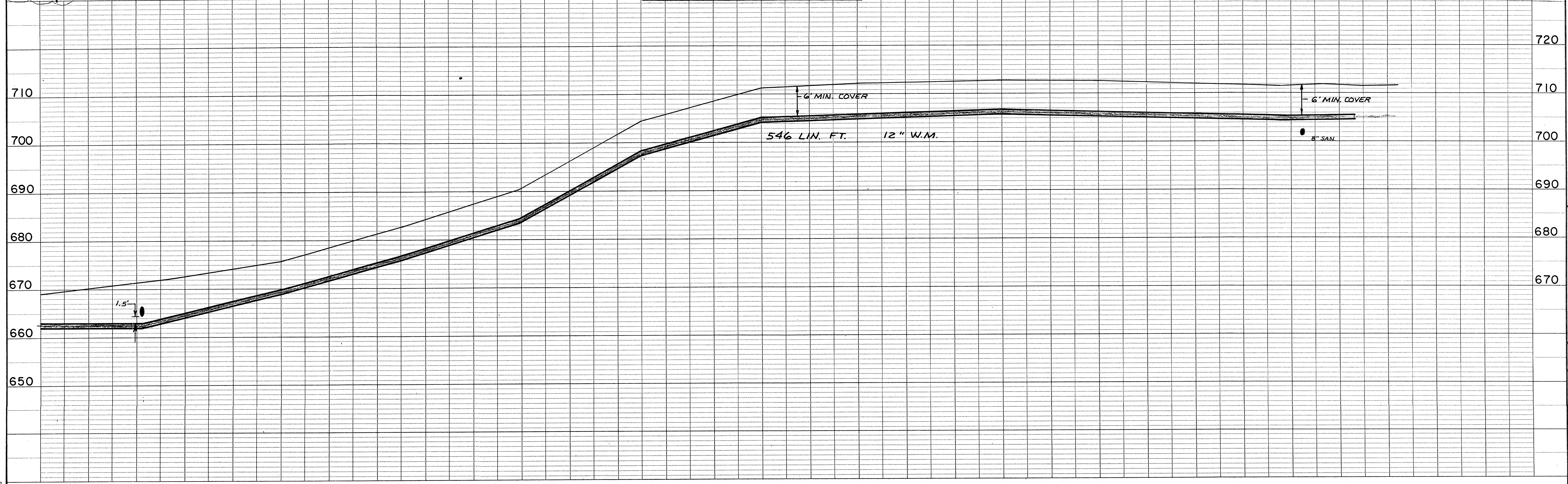
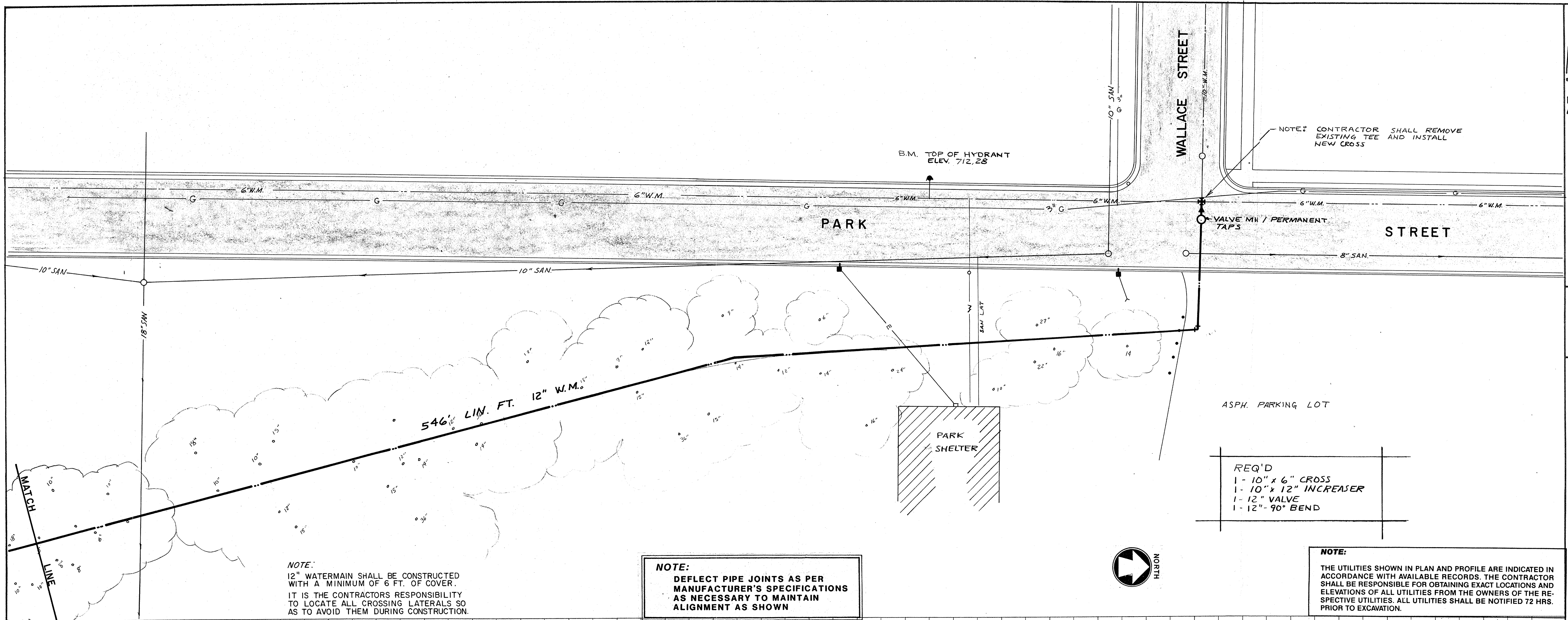
WATERMAIN CONSTRUCTION  
VILLAGE OF COMBINED LOCKS  
WALLACE STREET

DESIGNED DRB  
DRAWN KKH  
CHECKED DRB  
SCALE  
HORIZ. 1"=20'  
VERT. 1"=5'

DATE  
AUGUST, 1986

10  
OF SHEETS  
FILE NO  
M4-A-154





McMAHON ASSOCIATES INC.  
 ENGINEERS  
 MENASHA, WISCONSIN

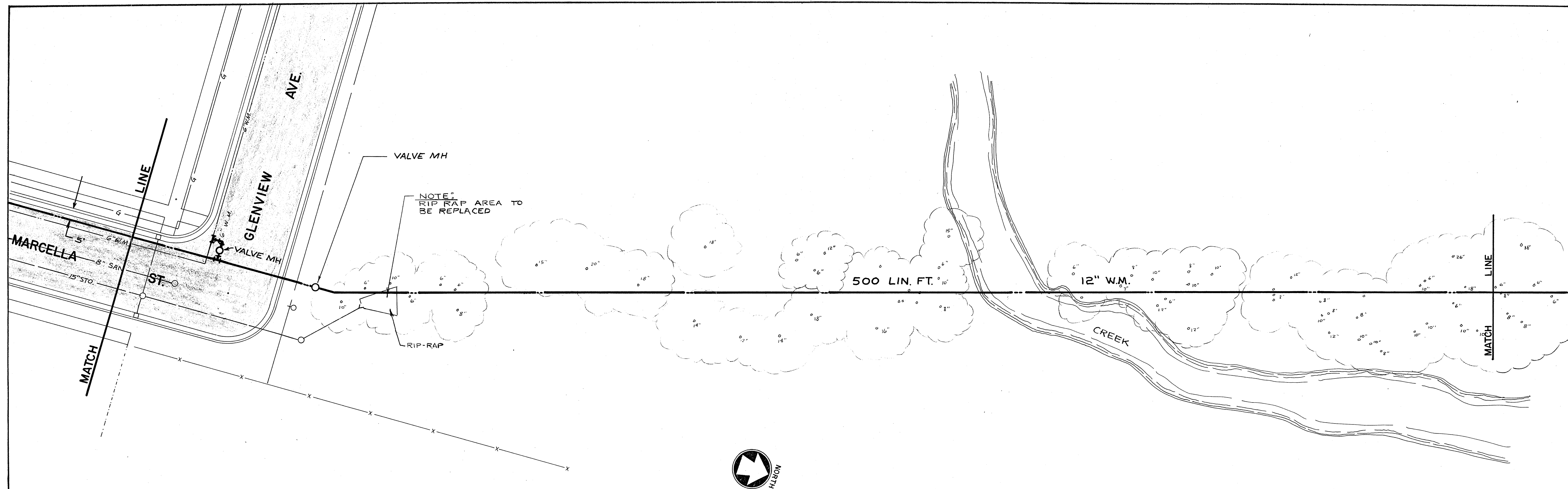
REVISIONS

WATERMAIN CONSTRUCTION  
 VILLAGE OF COMBINED LOCKS  
 WALLACE STREET-SOUTH

DESIGNED DND  
 DRAWN KRH  
 CHECKED JES  
 SCALE HORIZ. 1" = 20'  
 VERT. 1" = 10'

DATE  
 DEC., 1986

12  
 OF SHEETS  
 FILE NO.  
 M 4-A-154

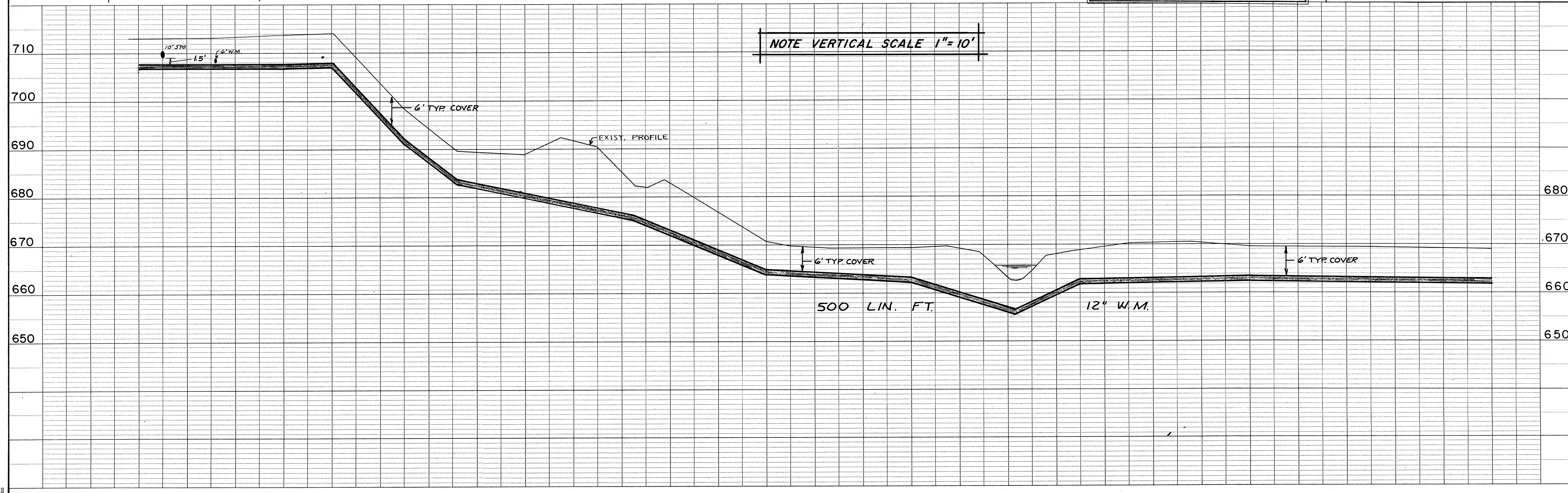



- REQ'D
- 1 - 6" GATE VALVE
  - 1 - 12" x 6" TEE
  - 1 - 6" x 6" CUTTING-IN TEE
  - 1 - 12" VALVE
  - 2 - VALVE MANHOLES
  - 1 - 6" 90° BEND

NOTE:  
12" WATERMAIN SHALL BE CONSTRUCTED WITH A MINIMUM OF 6 FT. OF COVER.  
IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL CROSSING LATERALS SO AS TO AVOID THEM DURING CONSTRUCTION.

NOTE:  
DEFLECT PIPE JOINTS AS PER MANUFACTURER'S SPECIFICATIONS AS NECESSARY TO MAINTAIN ALIGNMENT AS SHOWN

NOTE:  
THE UTILITIES SHOWN IN PLAN AND PROFILE ARE INDICATED IN ACCORDANCE WITH AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING EXACT LOCATIONS AND ELEVATIONS OF ALL UTILITIES FROM THE OWNERS OF THE RESPECTIVE UTILITIES. ALL UTILITIES SHALL BE NOTIFIED 72 HRS. PRIOR TO EXCAVATION.





**McMAHON ASSOCIATES INC.**

ENGINEERS

MENASHA, WISCONSIN

| REVISIONS |  |
|-----------|--|
|           |  |

**WATERMAIN CONSTRUCTION**

**VILLAGE OF COMBINED LOCKS**

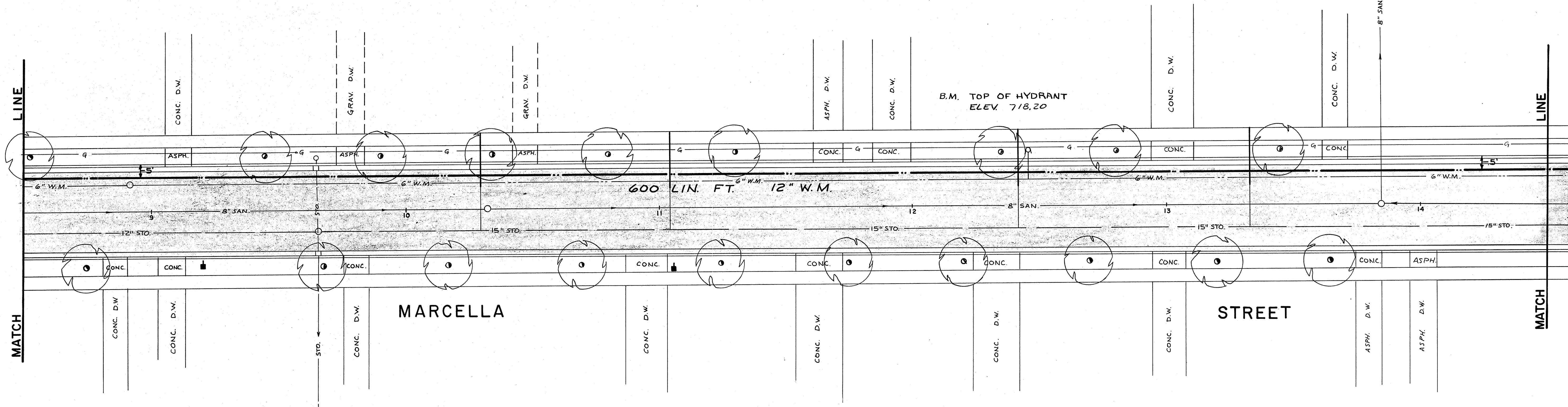
**MARCELLA STREET NORTH**

|   |                  |                    |
|---|------------------|--------------------|
| DESIGNED <b>DND</b>   | DRAWN <b>KRH</b> | CHECKED <b>DRB</b> |
| DATE <b>DEC., 1986</b>  |                  |                    |
| <div style="display: flex; justify-content: space-between;"> <span>SCALE <b>1"=20'</b></span> <span>VERT. <b>1"=10'</b></span> </div> |                  |                    |

**13**

OF SHEETS

FILE NO. **M4-A-154**

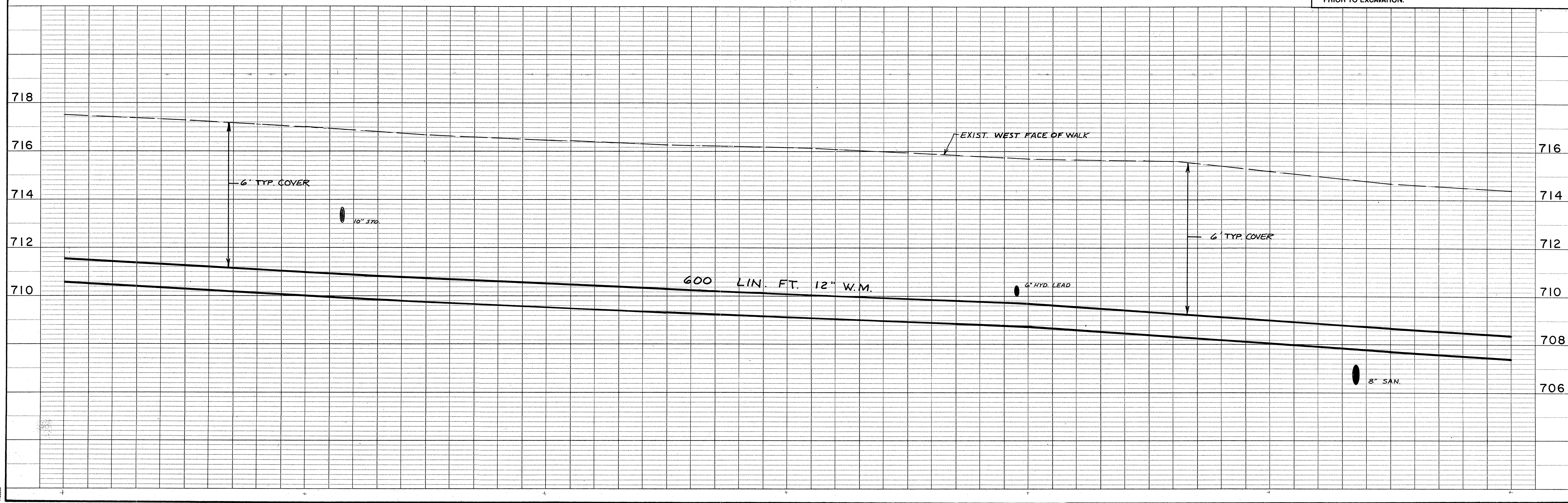


B.M. TOP OF HYDRANT  
ELEV. 718.20

NOTE:  
12" WATERMAIN SHALL BE CONSTRUCTED  
WITH A MINIMUM OF 6 FT. OF COVER.  
IT IS THE CONTRACTOR'S RESPONSIBILITY  
TO LOCATE ALL CROSSING LATERALS SO  
AS TO AVOID THEM DURING CONSTRUCTION.

NOTE:  
THE CONTRACTOR SHALL CONNECT TO EXISTING  
STORM SEWER LATERAL STUB & EXTEND TO R/W  
ON WEST SIDE OF STREET UPON COMPLETION OF  
INSTALLATION OF WATERMAIN.

NOTE:  
THE UTILITIES SHOWN IN PLAN AND PROFILE ARE INDICATED IN  
ACCORDANCE WITH AVAILABLE RECORDS. THE CONTRACTOR  
SHALL BE RESPONSIBLE FOR OBTAINING EXACT LOCATIONS AND  
ELEVATIONS OF ALL UTILITIES FROM THE OWNERS OF THE RE-  
SPECTIVE UTILITIES. ALL UTILITIES SHALL BE NOTIFIED 72 HRS.  
PRIOR TO EXCAVATION.



EXIST. WEST FACE OF WALK

6" TYP. COVER

10" STO

600 LIN. FT. 12" W.M.

6" HYD. LEAD

6" TYP. COVER

8" SAN



McMAHON  
ASSOCIATES  
INC.

ENGINEERS

MENASHA, WISCONSIN

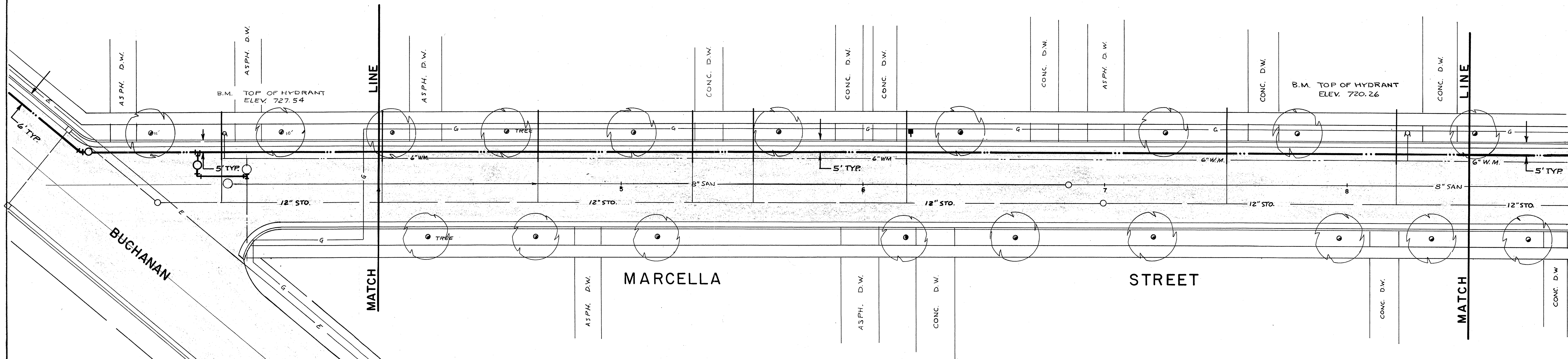
REVISIONS

WATERMAIN CONSTRUCTION  
VILLAGE OF COMBINED LOCKS  
MARCELLA STREET

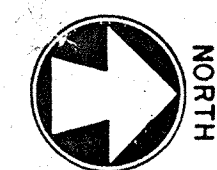
DESIGNED M.G.  
DRAWN K.R.H.  
CHECKED *003*  
SCALE HORIZ. 1"=20'  
VERT. 1"=2'

DATE  
DEC. 1, 1986

15  
OF SHEETS  
FILE NO.  
M4-A-154

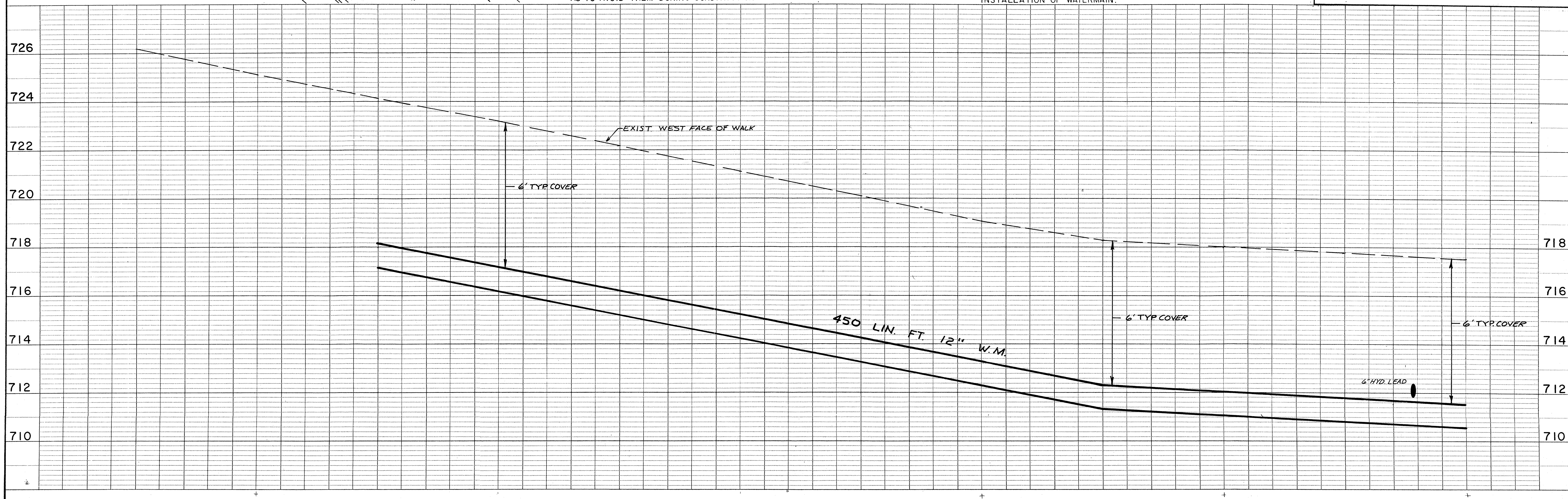


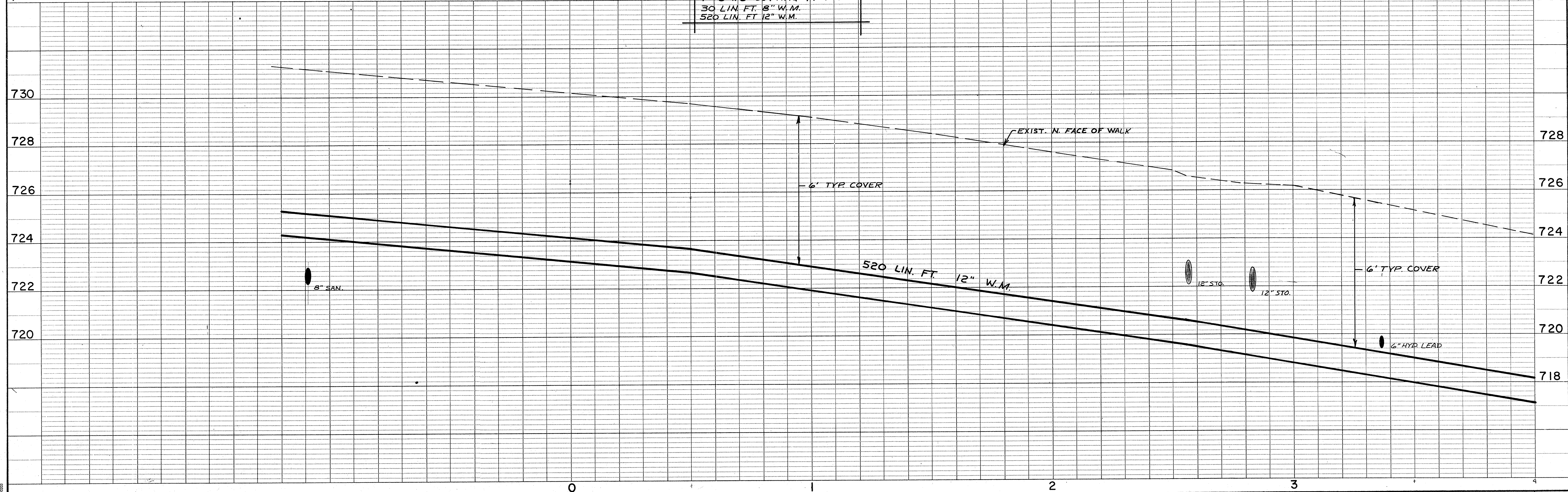
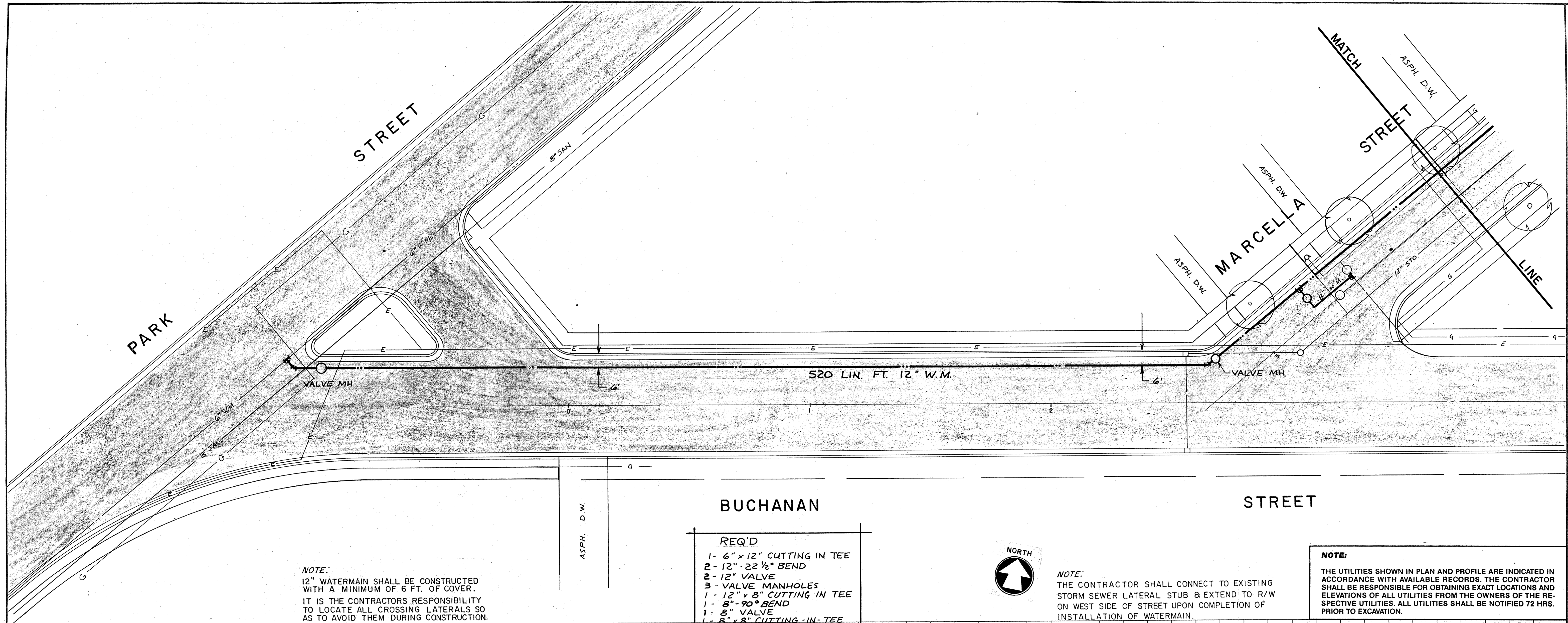
NOTE:  
12" WATERMAIN SHALL BE CONSTRUCTED  
WITH A MINIMUM OF 6 FT. OF COVER.  
IT IS THE CONTRACTORS RESPONSIBILITY  
TO LOCATE ALL CROSSING LATERALS SO  
AS TO AVOID THEM DURING CONSTRUCTION.



NOTE:  
THE CONTRACTOR SHALL CONNECT TO EXISTING  
STORM SEWER LATERAL STUB & EXTEND TO R/W  
ON WEST SIDE OF STREET UPON COMPLETION OF  
INSTALLATION OF WATERMAIN.

NOTE:  
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PRIOR TO EXCAVATION.





McMAHON ASSOCIATES INC.  
ENGINEERS  
MENASHA, WISCONSIN

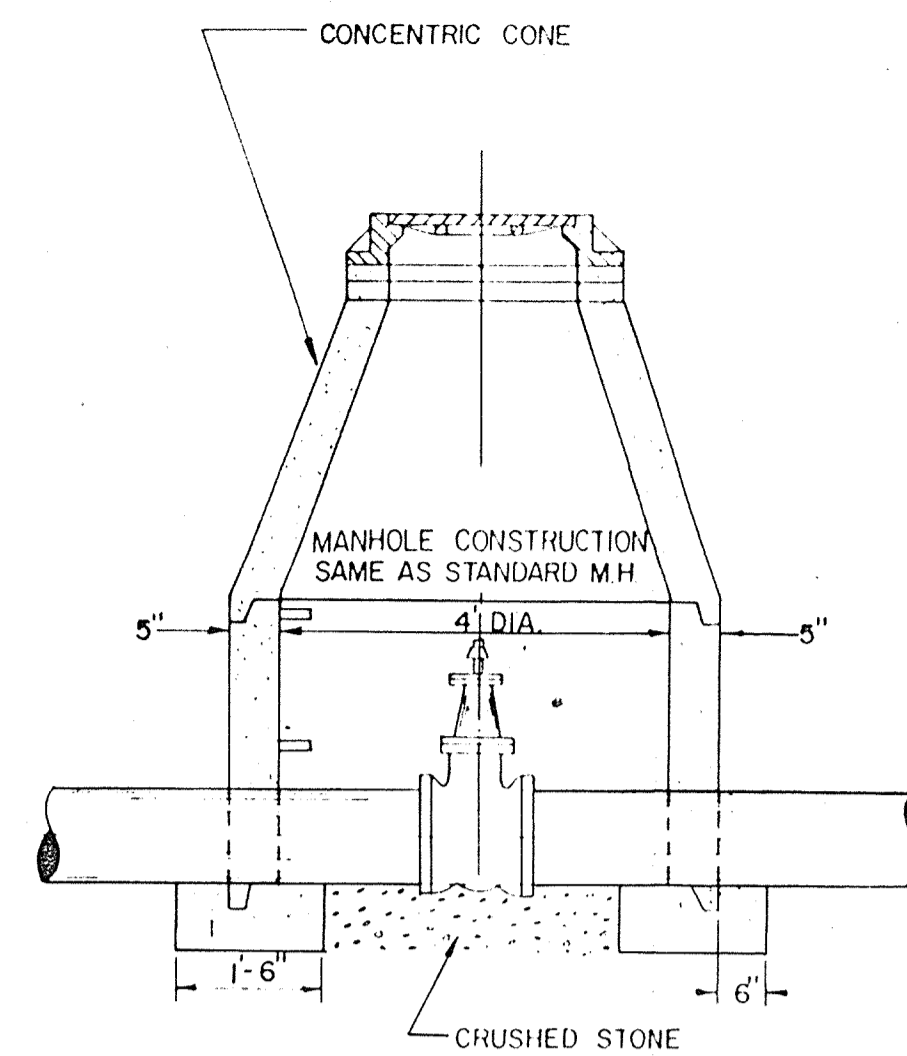
REVISIONS

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
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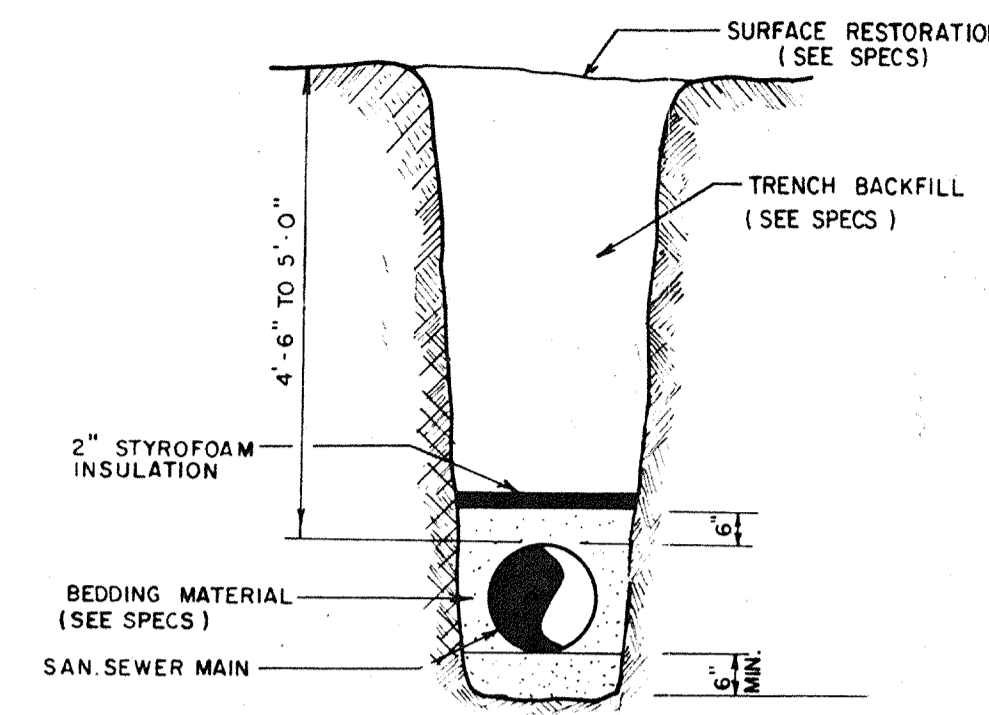
WATERMAIN CONSTRUCTION  
VILLAGE OF COMBINED LOCKS  
BUCHANAN STREET

DESIGNED MJG  
DRAWN KRH  
CHECKED DRB  
DATE DEC. 1, 1986  
SCALE HORIZ. 1" = 20'  
VERT. 1" = 2'

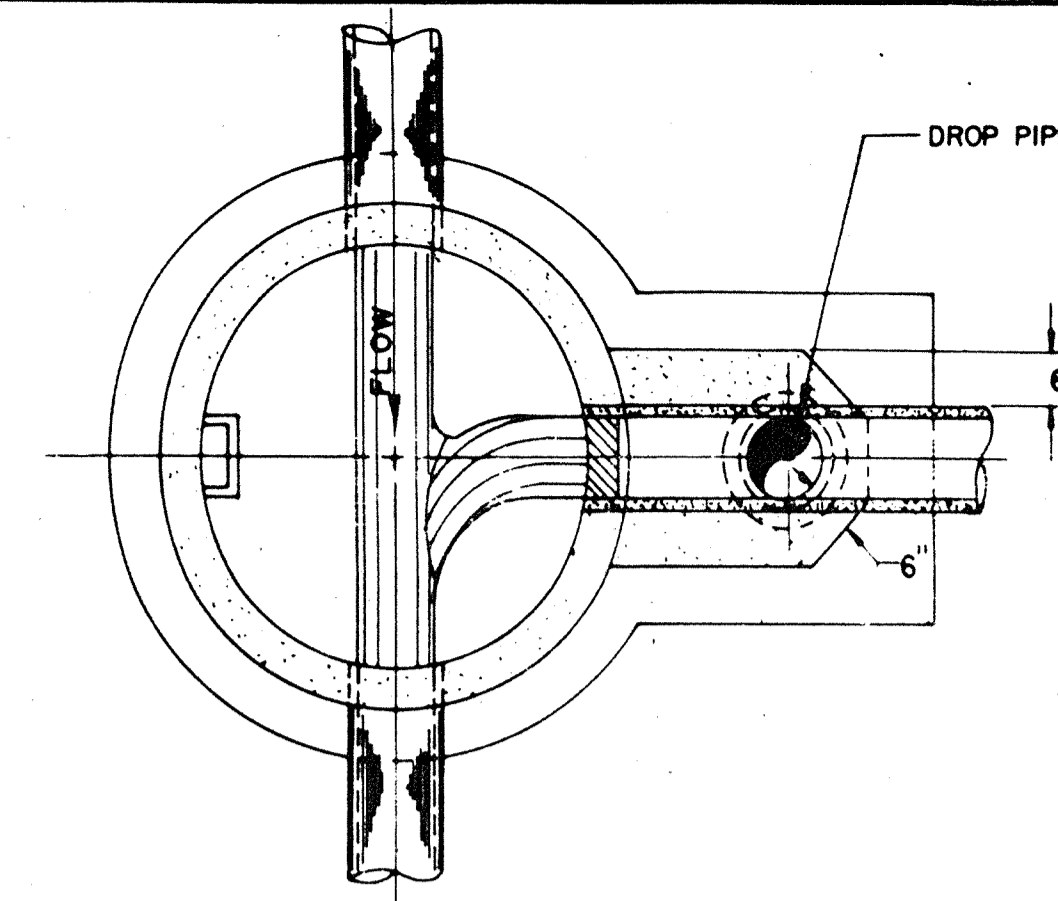
16  
OF SHEETS  
FILE NO. 14-A-154



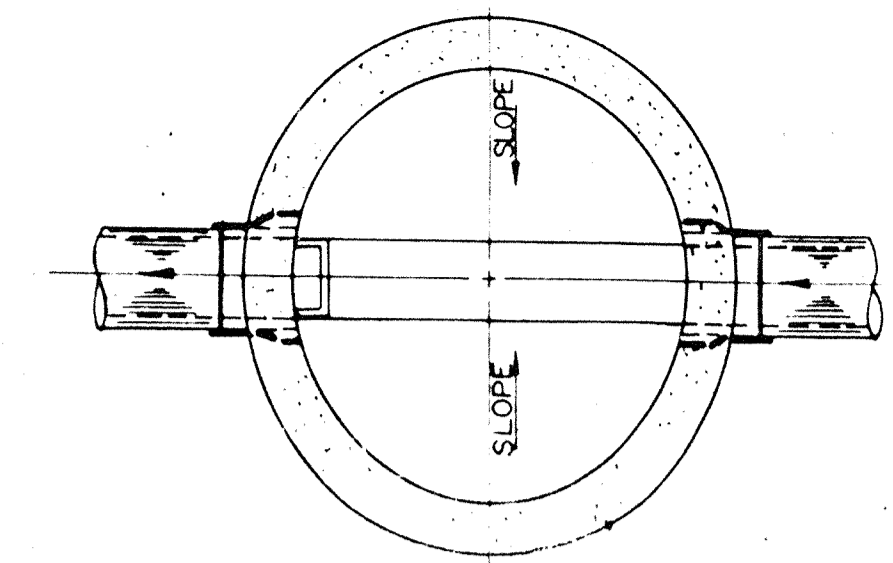
**STANDARD WATER VALVE MANHOLE**  
SCALE 1/2" = 1'-0"



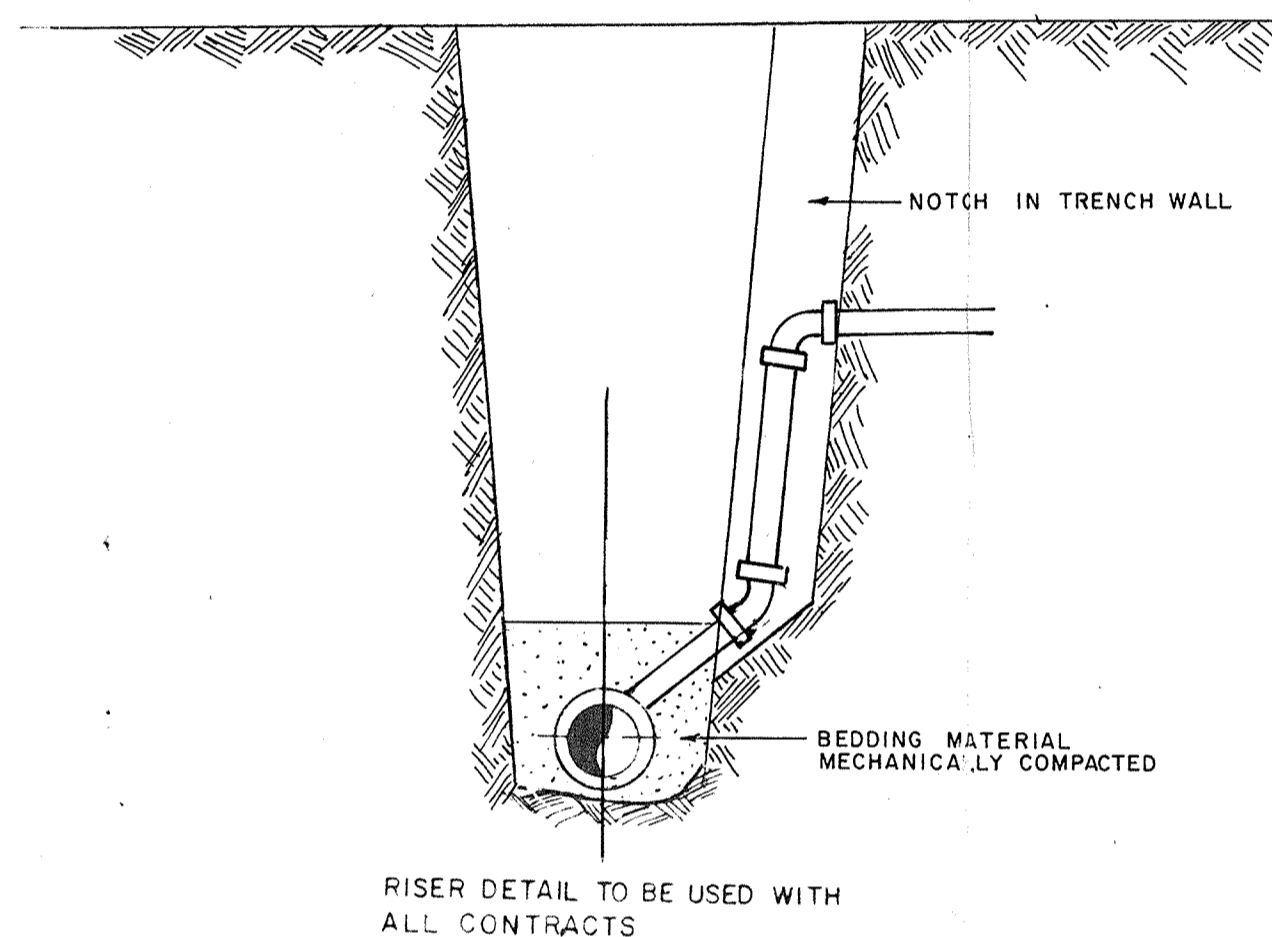
**TYPICAL PIPE INSULATION SECTION**



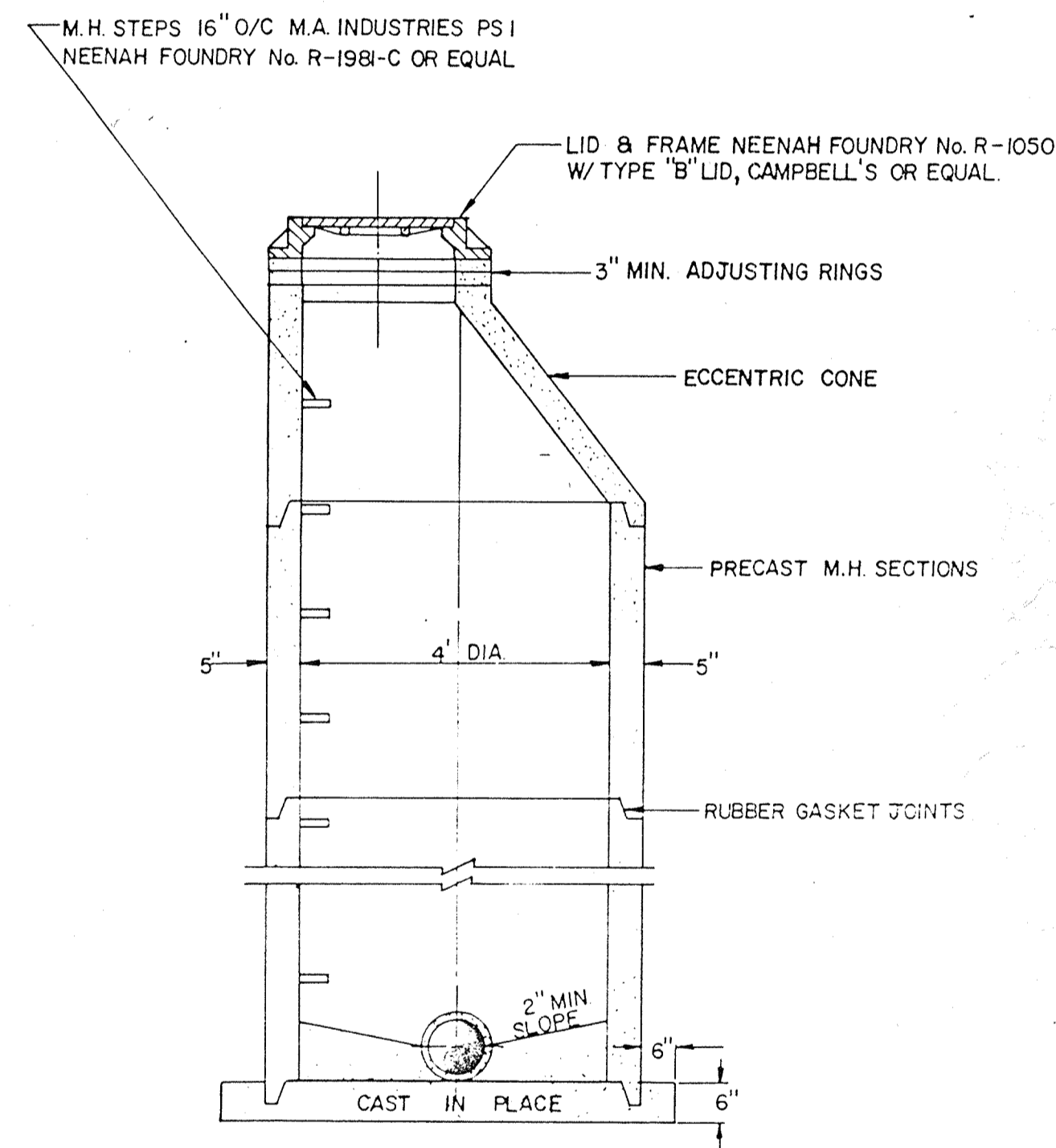
**STANDARD PRECAST DROP MANHOLE**  
SCALE 1/2" = 1'-0"



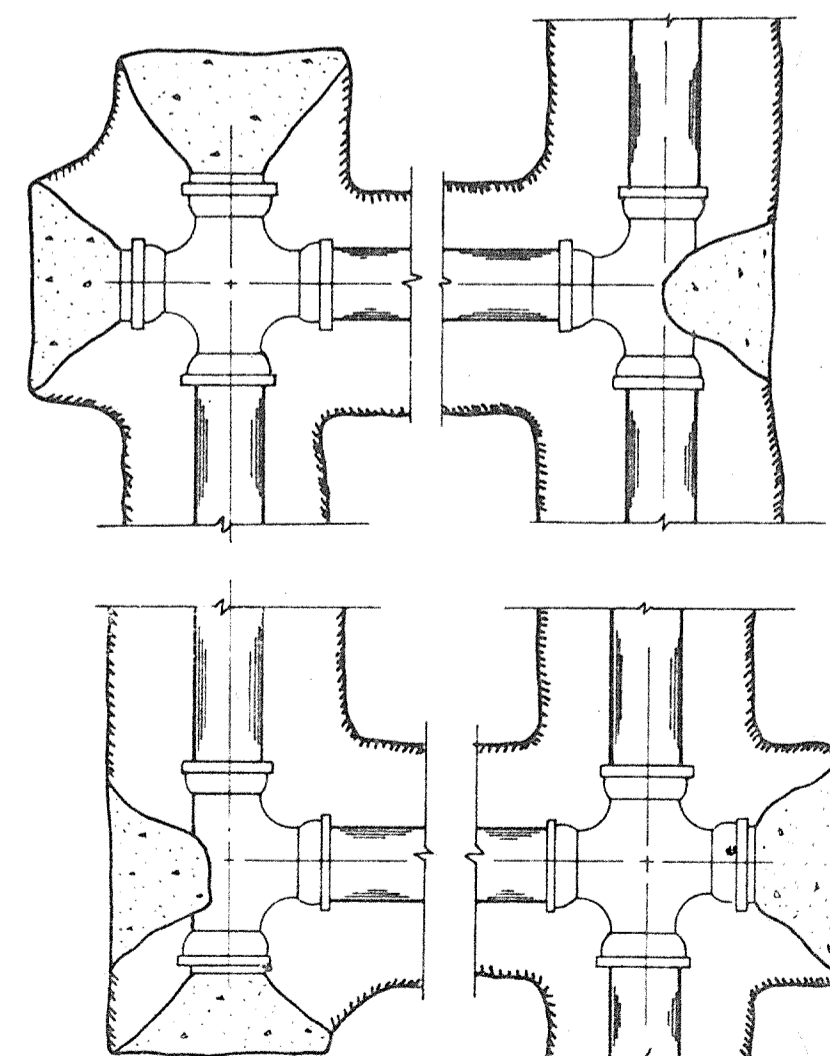
**WATERPROOF PRECAST MANHOLE**  
SCALE 1/2" = 1'-0"



**SANITARY SEWER RISER DETAIL**

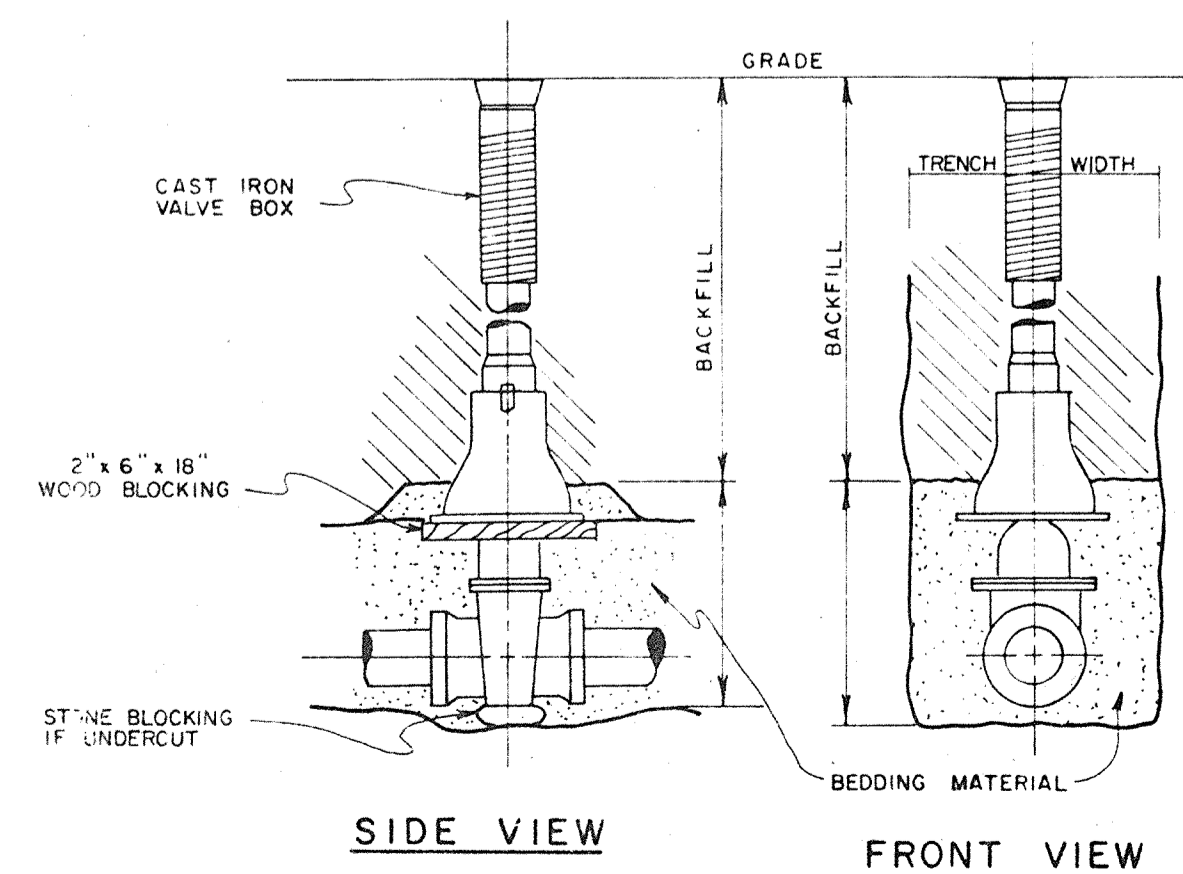


**STANDARD PRECAST MANHOLE**  
SCALE 1/2" = 1'-0"

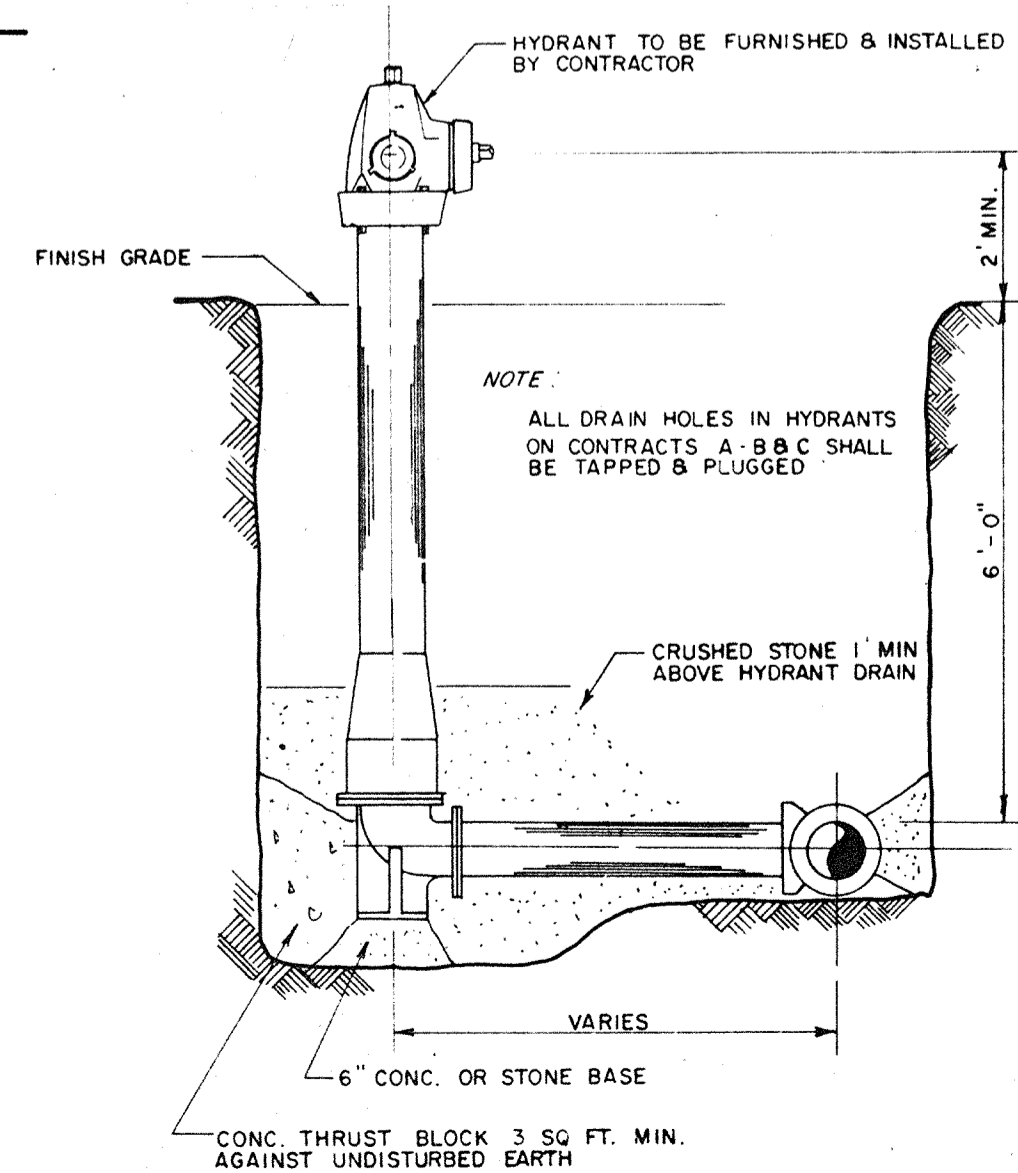


| PIPE SIZE | 90° BEND   | 45° BEND   |
|-----------|------------|------------|
| 6"        | 3 SQ. FT.  | 3 SQ. FT.  |
| 8"        | 5 SQ. FT.  | 3 SQ. FT.  |
| 10"       | 7 SQ. FT.  | 4 SQ. FT.  |
| 12"       | 10 SQ. FT. | 6 SQ. FT.  |
| 15"       | 18 SQ. FT. | 10 SQ. FT. |

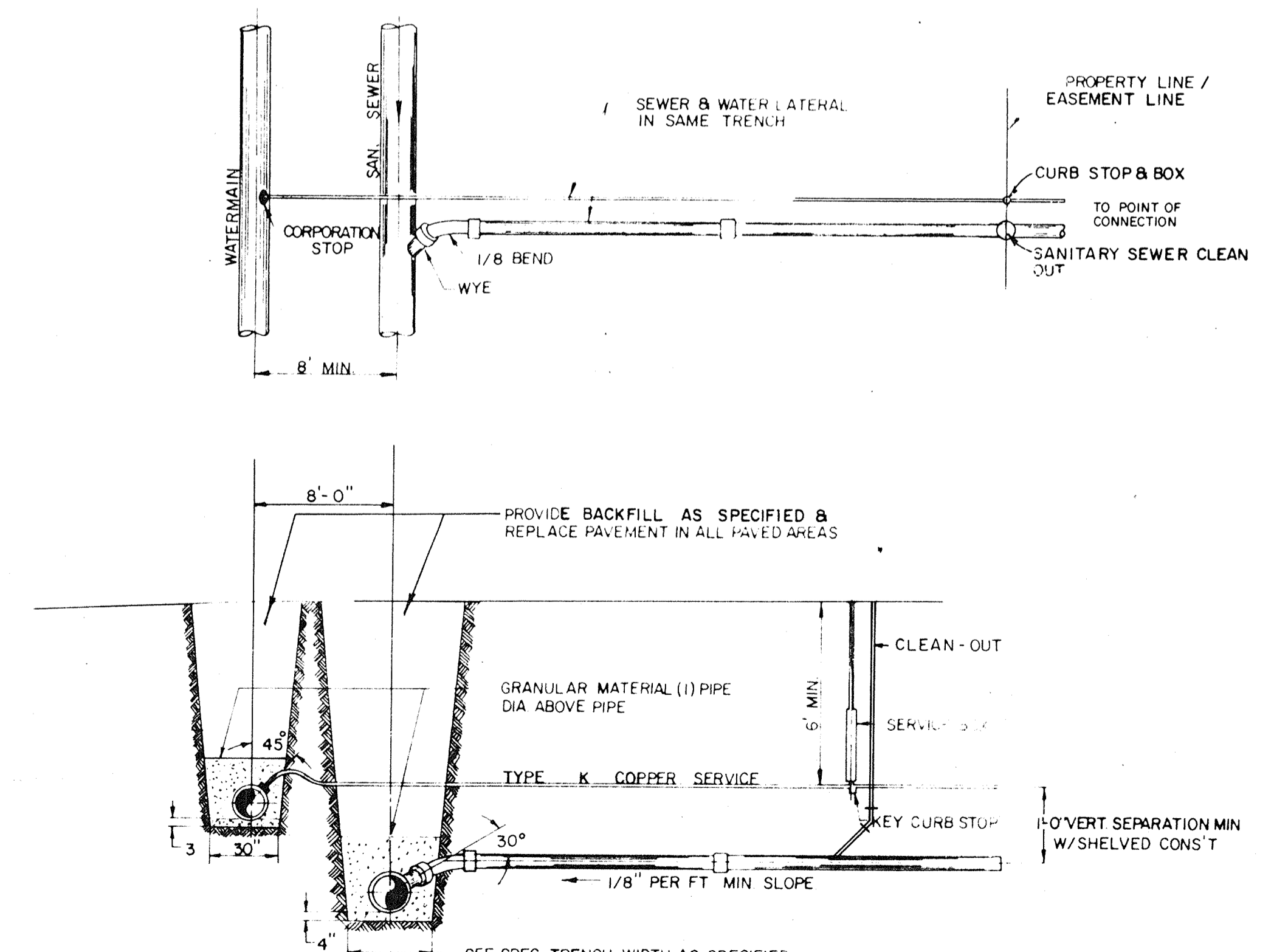
**TYPICAL THRUST BLOCK DETAILS**  
SCALE 1/2" = 1'-0"



**STANDARD GATE VALVE & VALVE BOX SETTING**  
NO SCALE



**HYDRANT INSTALLATION DETAIL**  
SCALE 1/2" = 1'-0"



**TYPICAL HOUSE CONNECTION SEWER & WATER**

MCM  
EST. 1909

McMAHON  
ASSOCIATES  
INC.

ENGINEERS

MENASHA, WISCONSIN

REVISIONS

SANITARY SEWER & WATERMAIN CONSTRUCTION

VILLAGE OF COMBINED LOCKS  
STANDARD SANITARY SEWER AND WATERMAIN DETAILS

DESIGNED DND  
DRAWN KRH  
CHECKED DMB  
SCALE AS NOTED

DATE  
DEC., 1986

17  
OF SHEETS  
FILE NO.  
M.A. 154