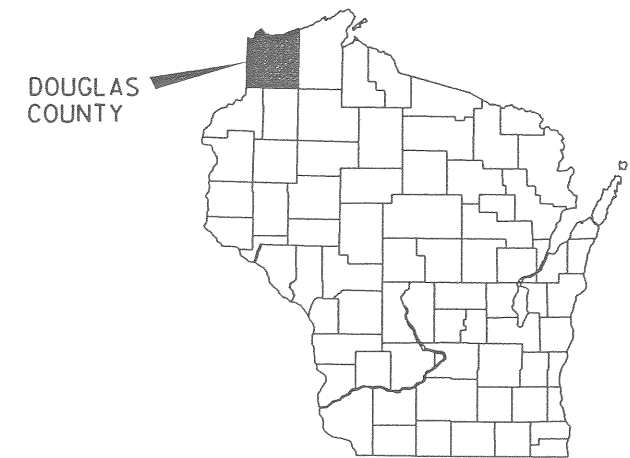
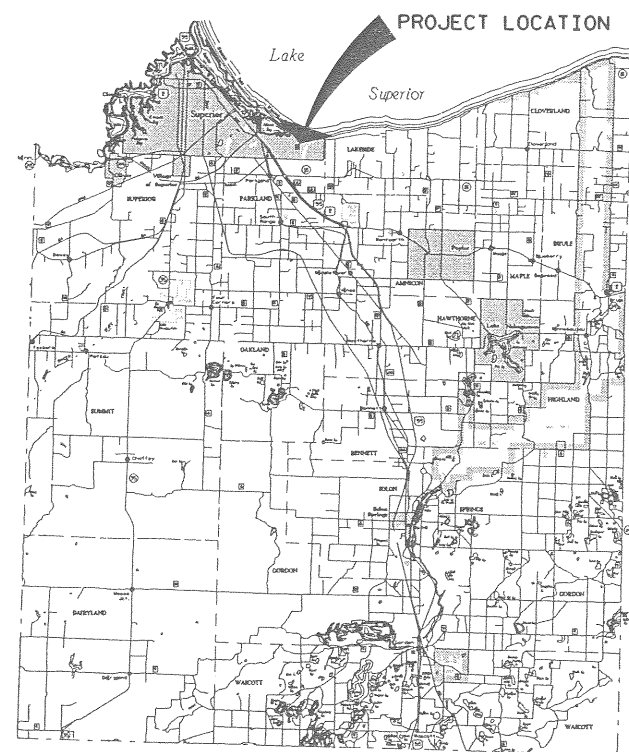


LEACHATE FORCE MAIN IMPROVEMENTS MOCCASIN MIKE ROAD SUPERIOR, WISCONSIN

MAY 2004



VICINITY MAP
NOT TO SCALE



DOUGLAS COUNTY



DRAWING INDEX	
DWG NO	DESCRIPTION
1	TITLE SHEET
2	PROJECT LOCATION PLAN
3	USH 2/53 TO STATION 16+50
4	STATION 16+50 TO 33+75
5	STATION 33+75 TO 51+00
6	STATION 51+00 TO 68+25
7	STATION 68+25 TO 85+25
8	STATION 85+25 TO MOCCASIN MIKE SANITARY LANDFILL
9	DETAILS

BIDDING DOCUMENTS

No. 9 issue Date 4/20/04

PLANS PREPARED FOR:
CITY OF SUPERIOR
SUPERIOR, WISCONSIN

DR. BY <i>J. Schmidt</i>	BOOK NO.				
CHK. BY <i>S. Stougherty</i>	JOB NO. 101415.00				
DATE MAY 2004	SCALE AS SHOWN	NO.	DATE	REVISION	NO. DATE REVISION

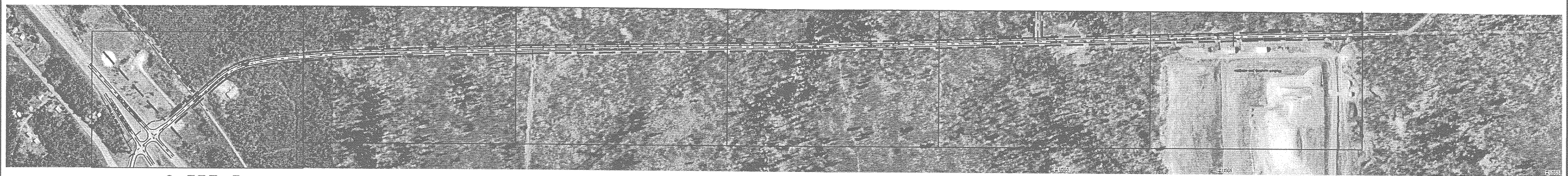
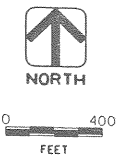
LEACHATE FORCE MAIN IMPROVEMENTS
MOCCASIN MIKE ROAD
SUPERIOR, WISCONSIN



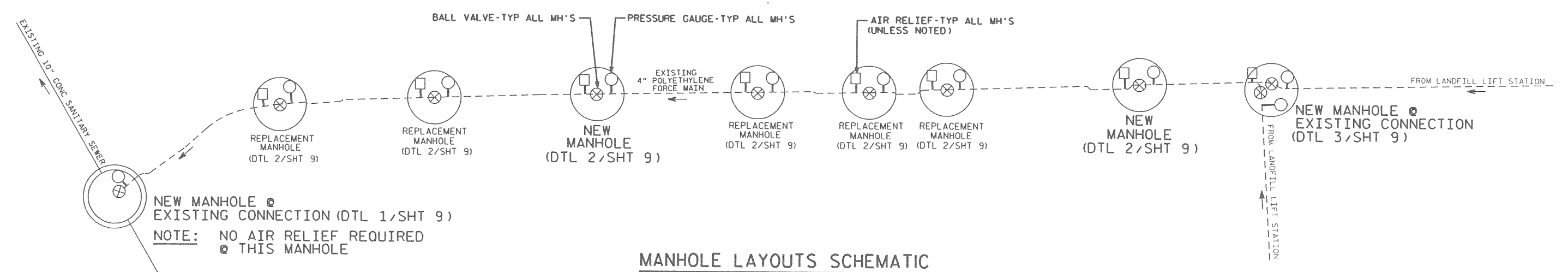
TITLE SHEET

DRAWING NO.
1

DRAWING REDUCED TO ONE-HALF ORIGINAL SCALE



SHEET 3 SHEET 4 SHEET 5 SHEET 6 SHEET 7 SHEET 8



MANHOLE LAYOUTS SCHEMATIC

NEW MANHOLE @
EXISTING CONNECTION (DTL 1/SHT 9)
NOTE: NO AIR RELIEF REQUIRED
@ THIS MANHOLE

NOTE:
CONTRACTOR TO VERIFY LOCATION OF UTILITIES
IN AREAS OF CONSTRUCTION.
AERIAL PHOTO SOURCE: USGS-1998
EXISTING FORCE MAIN, MANHOLE LOCATIONS, AND STATIONING
BASED ON AS-BUILTS (4/7/92) PROVIDED BY OTHERS.

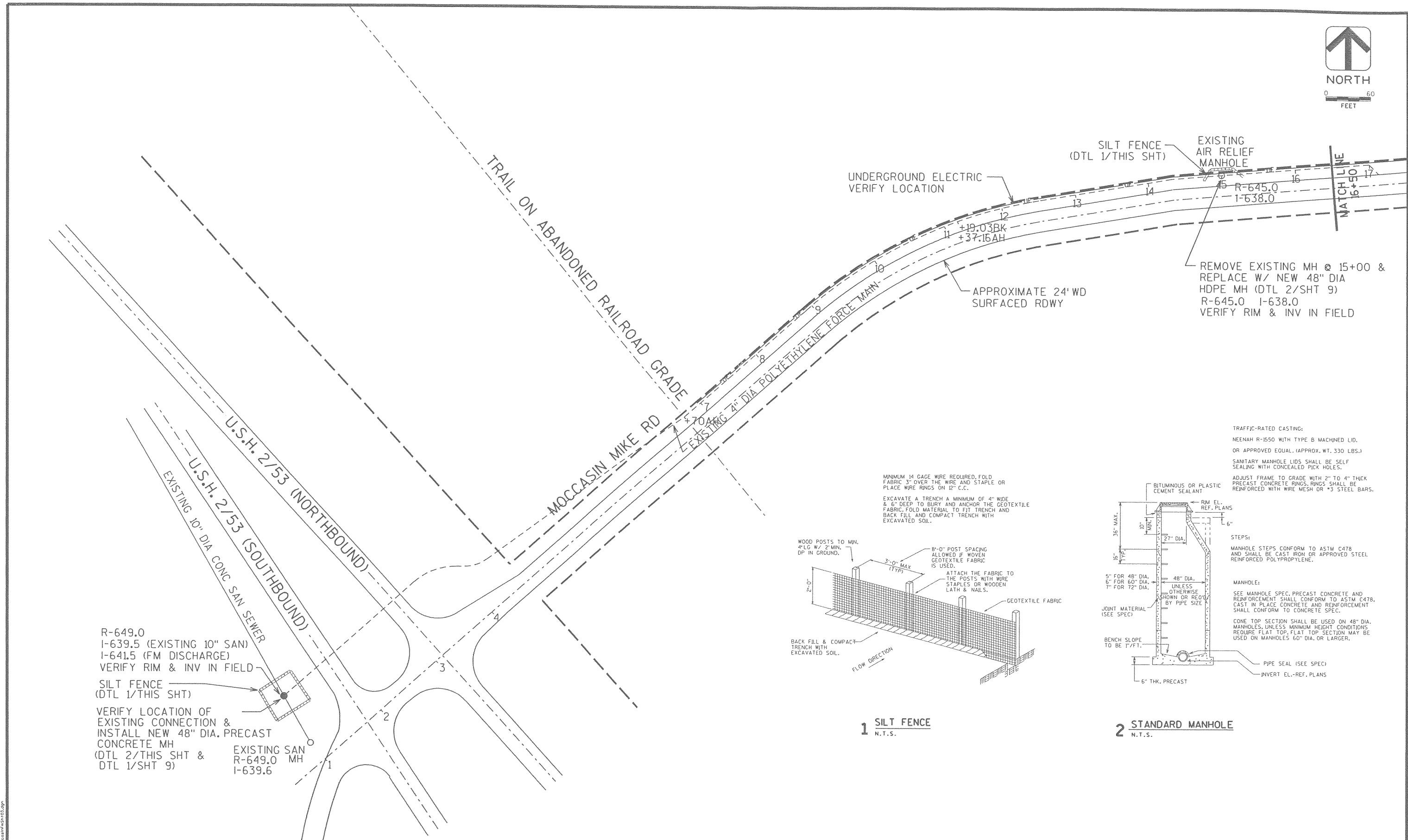
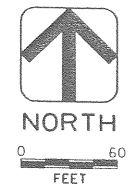
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DR. BY J. SCHWIDT	BOOK NO.				
CHK. BY S. DEBCHERTY	JOB NO. 101415.00				
DATE MAY 2004	SCALE AS SHOWN	NO.	DATE	REVISION	

LEACHATE FORCE MAIN IMPROVEMENTS
MOCCASIN MIKE ROAD
SUPERIOR, WISCONSIN



PROJECT LOCATION PLAN
DRAWING NO. 2
DRAWING REDUCED TO ONE-HALF ORIGINAL SCALE



R-649.0
 I-639.5 (EXISTING 10" SAN)
 I-641.5 (FM DISCHARGE)
 VERIFY RIM & INV IN FIELD

SILT FENCE
 (DTL 1/THIS SHT)

VERIFY LOCATION OF
 EXISTING CONNECTION &
 INSTALL NEW 48" DIA. PRECAST
 CONCRETE MH
 (DTL 2/THIS SHT &
 DTL 1/SHT 9)

EXISTING SAN
 R-649.0 MH
 I-639.6

UNDERGROUND ELECTRIC
 VERIFY LOCATION

APPROXIMATE 24' WD
 SURFACED RDWY

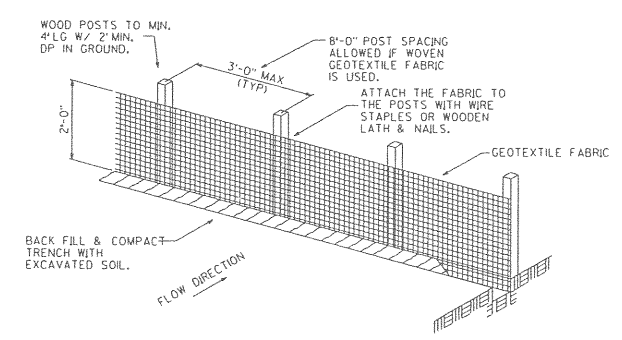
SILT FENCE
 (DTL 1/THIS SHT)

EXISTING
 AIR RELIEF
 MANHOLE

REMOVE EXISTING MH @ 15+00 &
 REPLACE W/ NEW 48" DIA
 HDPE MH (DTL 2/SHT 9)
 R-645.0 I-638.0
 VERIFY RIM & INV IN FIELD

MINIMUM 14 GAGE WIRE REQUIRED, FOLD
 FABRIC 3" OVER THE WIRE AND STAPLE OR
 PLACE WIRE RINGS ON 12" C.C.

EXCAVATE A TRENCH A MINIMUM OF 4" WIDE
 & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE
 FABRIC. FOLD MATERIAL TO FIT TRENCH AND
 BACK FILL AND COMPACT TRENCH WITH
 EXCAVATED SOIL.

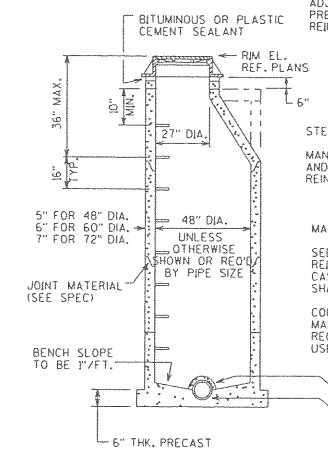


1 SILT FENCE
 N.T.S.

TRAFFIC-RATED CASTING:
 NEENAH R-1550 WITH TYPE B MACHINED LID,
 OR APPROVED EQUAL. (APPROX. WT. 330 LBS.)

SANITARY MANHOLE LIDS SHALL BE SELF
 SEALING WITH CONCEALED PICK HOLES.

ADJUST FRAME TO GRADE WITH 2" TO 4" THICK
 PRECAST CONCRETE RINGS, RINGS SHALL BE
 REINFORCED WITH WIRE MESH OR #3 STEEL BARS.



2 STANDARD MANHOLE
 N.T.S.

STEPS:
 MANHOLE STEPS CONFORM TO ASTM C478
 AND SHALL BE CAST IRON OR APPROVED STEEL
 REINFORCED POLYPROPYLENE.

MANHOLE:
 SEE MANHOLE SPEC. PRECAST CONCRETE AND
 REINFORCEMENT SHALL CONFORM TO ASTM C478.
 CAST IN PLACE CONCRETE AND REINFORCEMENT
 SHALL CONFORM TO CONCRETE SPEC.

CONE TOP SECTION SHALL BE USED ON 48" DIA.
 MANHOLES, UNLESS MINIMUM HEIGHT CONDITIONS
 REQUIRE FLAT TOP. FLAT TOP SECTION MAY BE
 USED ON MANHOLES 60" DIA. OR LARGER.

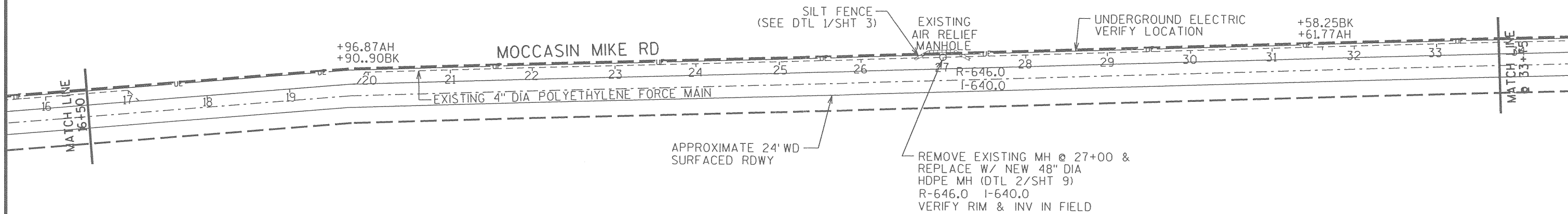
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DR. BY J. SCHMIDT	BOOK NO.				
CHK. BY S. DOUGHERTY	JOB NO. 101415.00				
DATE MAY 2004	SCALE AS SHOWN	NO.	DATE	REVISION	NO. DATE REVISION

LEACHATE FORCE MAIN IMPROVEMENTS
 MOCCASIN MIKE ROAD
 SUPERIOR, WISCONSIN



USH 2/53 TO STATION 16+50
 DRAWING REDUCED TO ONE-HALF ORIGINAL SCALE



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LEACHATE FORCE MAIN IMPROVEMENTS
MOCCASIN MIKE ROAD
SUPERIOR, WISCONSIN



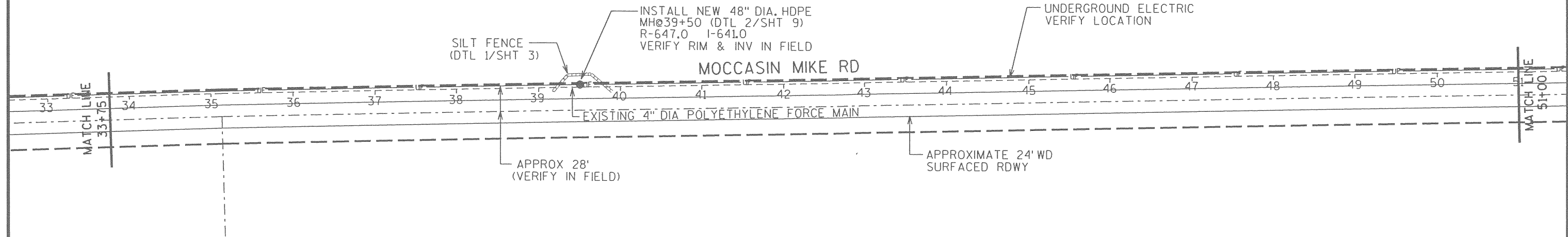
STATION 16+50 TO 33+75
DRAWING REDUCED TO ONE-HALF ORIGINAL SCALE

DRAWING NO.
4



NORTH

0 60
FEET



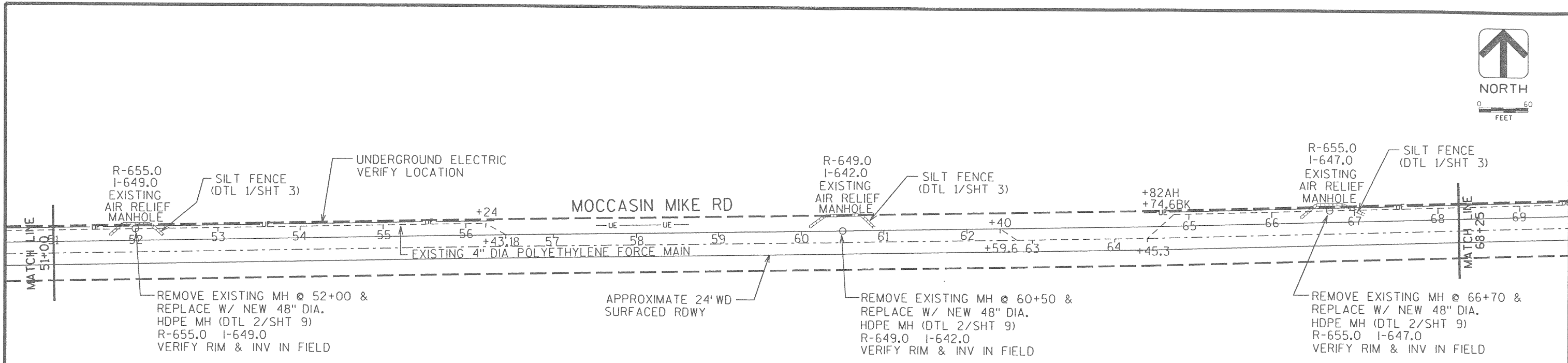
DR. BY <i>J. Schmidt</i>	BOOK NO.				
CHK. BY <i>S. Deugherty</i>	JOB NO. 101415.00				
DATE MAY 2004	SCALE AS SHOWN	NO.	DATE	REVISION	NO. DATE REVISION

LEACHATE FORCE MAIN IMPROVEMENTS
MOCCASIN MIKE ROAD
SUPERIOR, WISCONSIN



STATION 33+75 TO 51+00
DRAWING NO. 5
DRAWING REDUCED TO ONE-HALF ORIGINAL SCALE

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DR. BY J. SCHMIDT	BOOK NO.						
CHK. BY S. BOUCHERTY	JOB NO. 101415.00						
DATE MAY 2004	SCALE AS SHOWN	NO.	DATE	REVISION	NO.	DATE	REVISION

LEACHATE FORCE MAIN IMPROVEMENTS
MOCCASIN MIKE ROAD
SUPERIOR, WISCONSIN



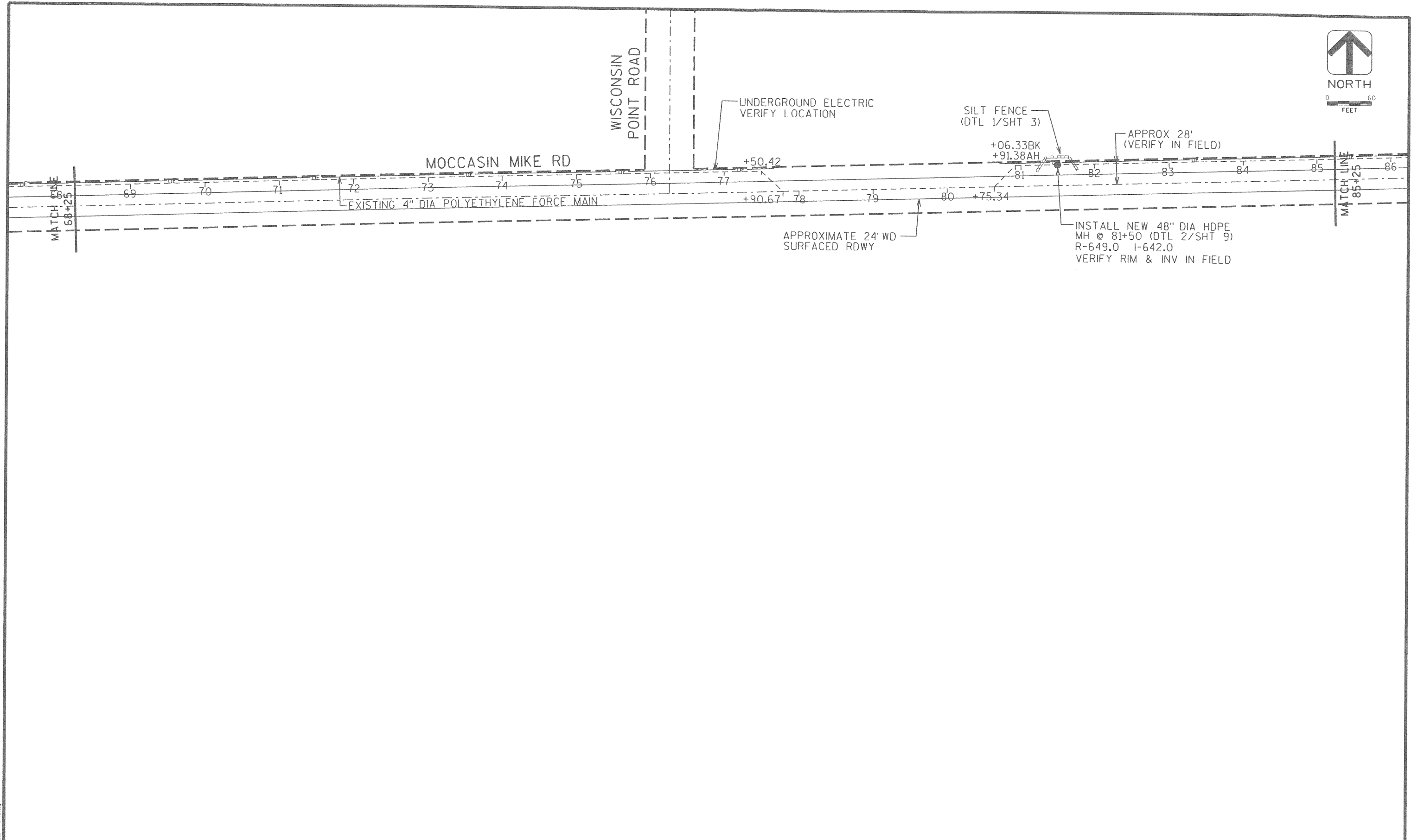
STATION 51+00 TO 68+25
DRAWING REDUCED TO ONE-HALF ORIGINAL SCALE

DRAWING NO.
6

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NORTH



DR. BY J. SCHMIDT	BOOK NO.						
CHK. BY S. DOUGHERTY	JOB NO. 101435.00						
DATE MAY 2004	SCALE AS SHOWN	NO.	DATE	REVISION	NO.	DATE	REVISION

LEACHATE FORCE MAIN IMPROVEMENTS
MOCCASIN MIKE ROAD
SUPERIOR, WISCONSIN

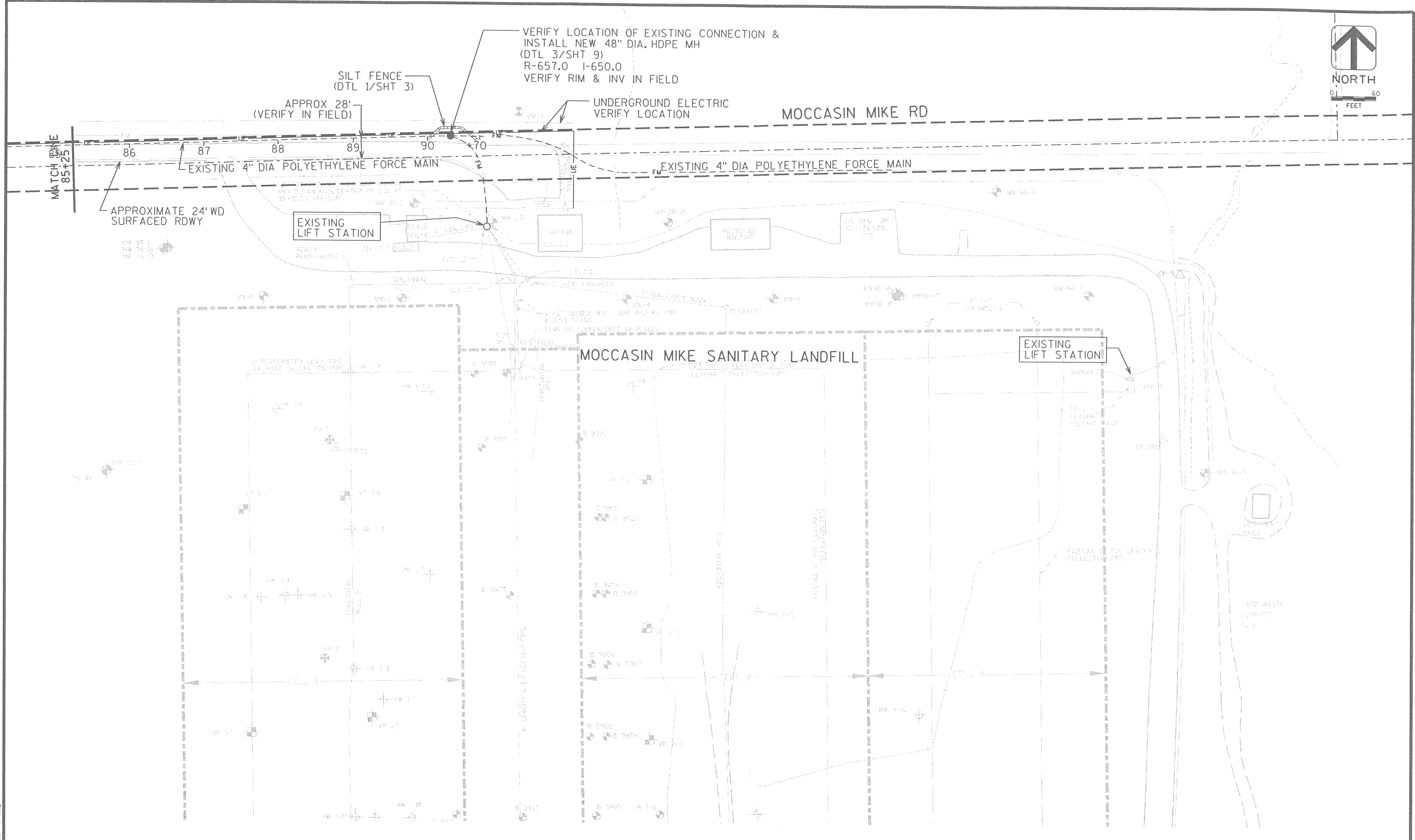
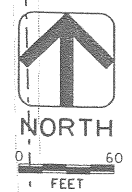


STATION 68+25 TO 85+25

DRAWING REDUCED TO ONE-HALF ORIGINAL SCALE

DRAWING NO.
7

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VERIFY LOCATION OF EXISTING CONNECTION &
INSTALL NEW 48" DIA. HDPE MH
(DTL 3/SHT 9)
R-657.0 I-650.0
VERIFY RIM & INV IN FIELD

SILT FENCE
(DTL 1/SHT 3)

APPROX 28'
(VERIFY IN FIELD)

UNDERGROUND ELECTRIC
VERIFY LOCATION

MOCCASIN MIKE RD

EXISTING 4" DIA POLYETHYLENE FORCE MAIN

EXISTING 4" DIA POLYETHYLENE FORCE MAIN

APPROXIMATE 24' WD
SURFACED RDWY

EXISTING
LIFT STATION

EXISTING
LIFT STATION

MOCCASIN MIKE SANITARY LANDFILL

DR. BY <i>JS</i> J. SCHWIDT	BOOK NO.								
CHK. BY <i>SD</i> S. DOUGHERTY	JOB NO. 101415.00								
DATE MAY 2004	SCALE AS SHOWN	NO.	DATE	REVISION	NO.	DATE	REVISION		

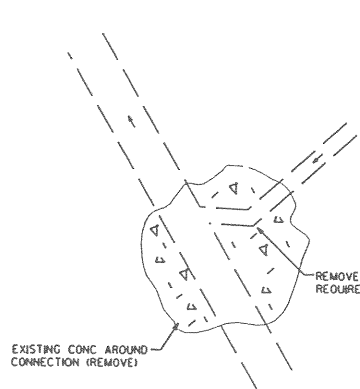
LEACHATE FORCE MAIN IMPROVEMENTS
MOCCASIN MIKE ROAD
SUPERIOR, WISCONSIN



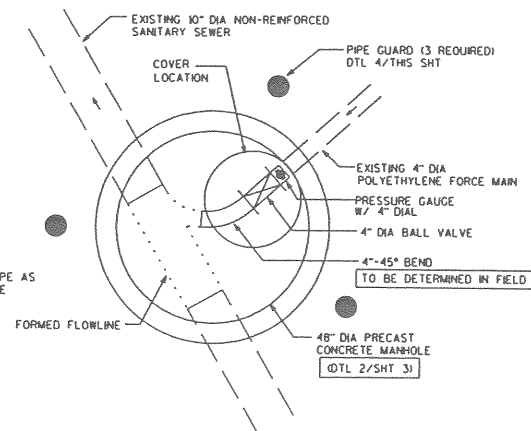
STATION 85+25 TO MOCCASIN MIKE SANITARY LANDFILL

DRAWING NO.
8

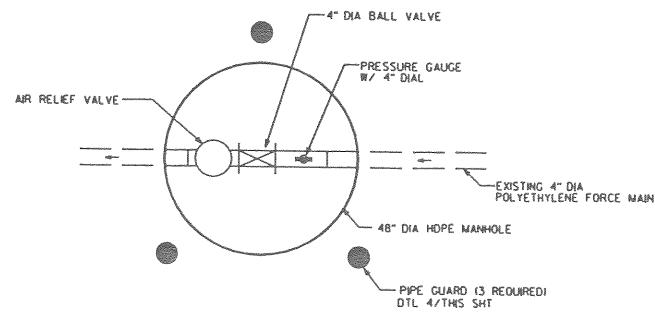
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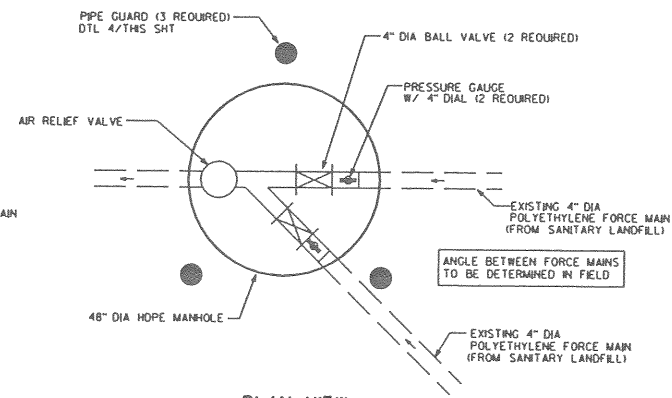
EXISTING PLAN VIEW
EXISTING PLAN VIEW BASED ON AS-BUILTS (4/7/92) PROVIDED BY OTHERS.



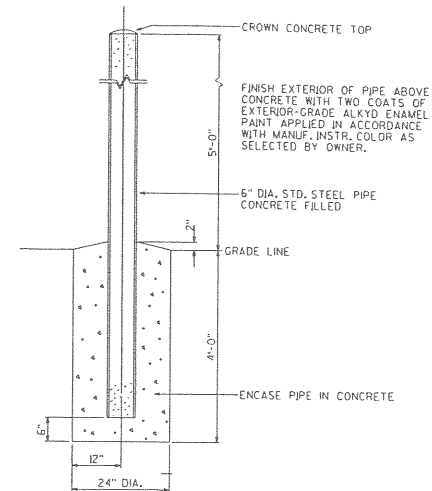
PLAN VIEW
NORTH



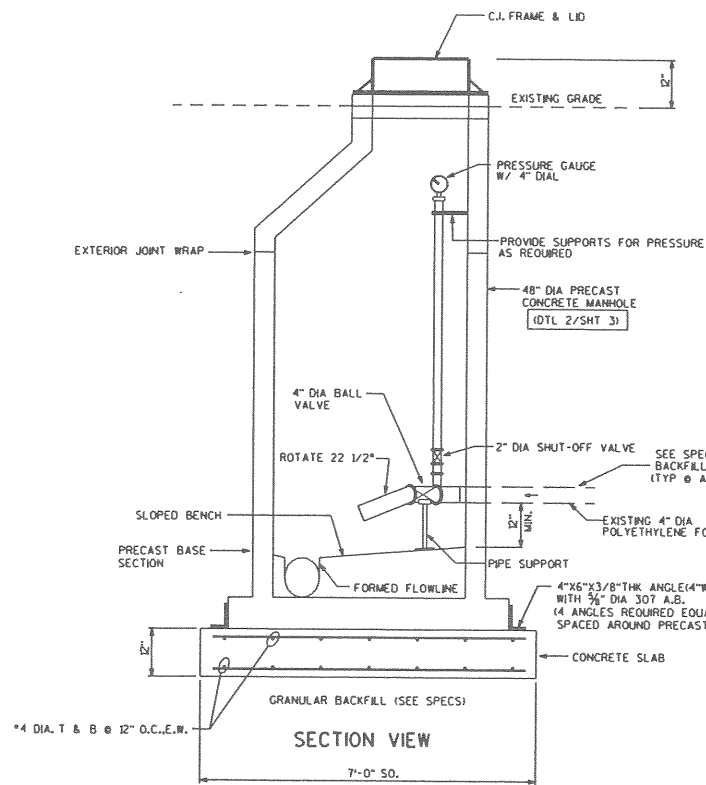
PLAN VIEW



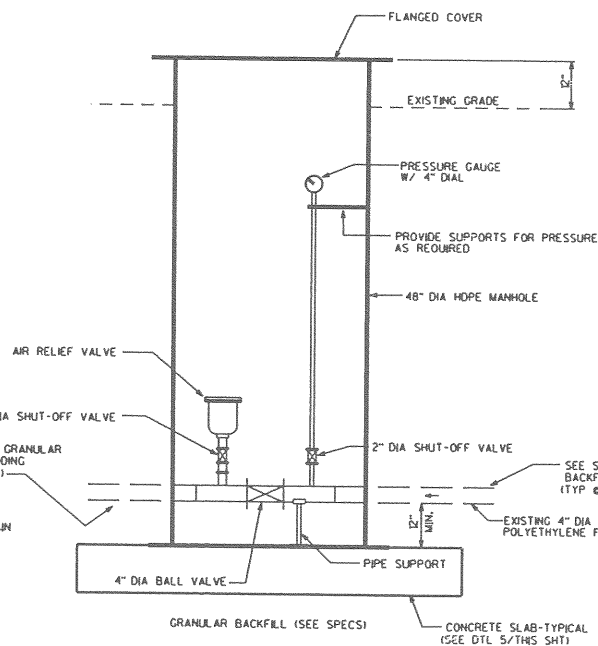
PLAN VIEW



4 PIPE GUARD

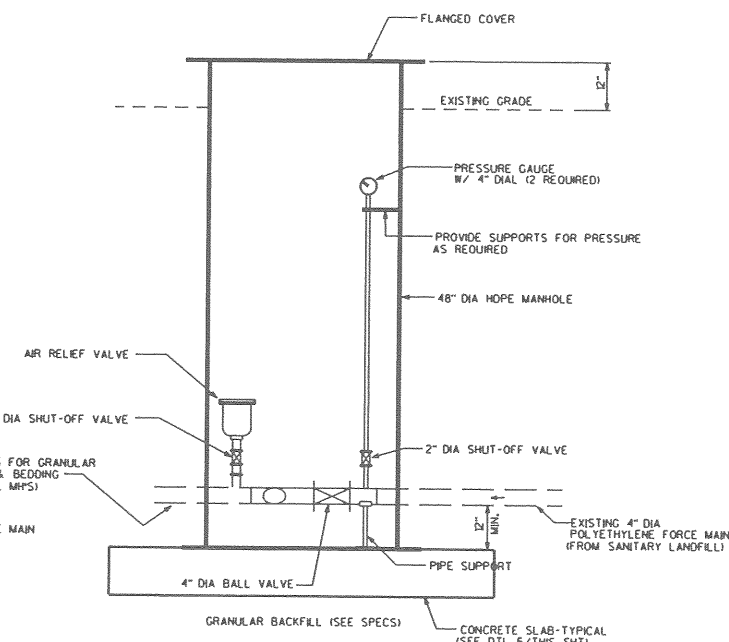


1 MANHOLE @ EXISTING CONNECTION (FORCE MAIN TO SANITARY SEWER)



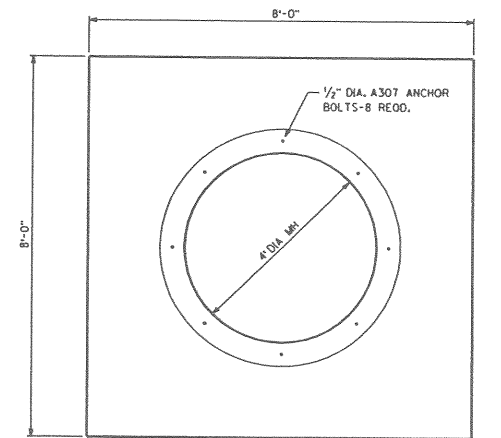
SECTION VIEW

2 NEW AND REPLACEMENT MANHOLE

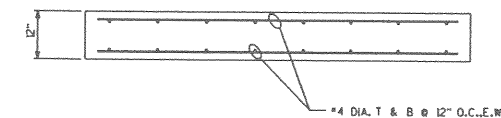


SECTION VIEW

3 MANHOLE @ EXISTING CONNECTION (FORCE MAIN @ SANITARY LANDFILL)



PLAN VIEW



SECTION VIEW

5 CONCRETE SLAB (TYP ALL HOPE MH'S)

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LEACHATE FORCE MAIN IMPROVEMENTS
MOCCASIN MIKE ROAD
SUPERIOR, WISCONSIN



DETAILS

DRAWING NO.
9

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