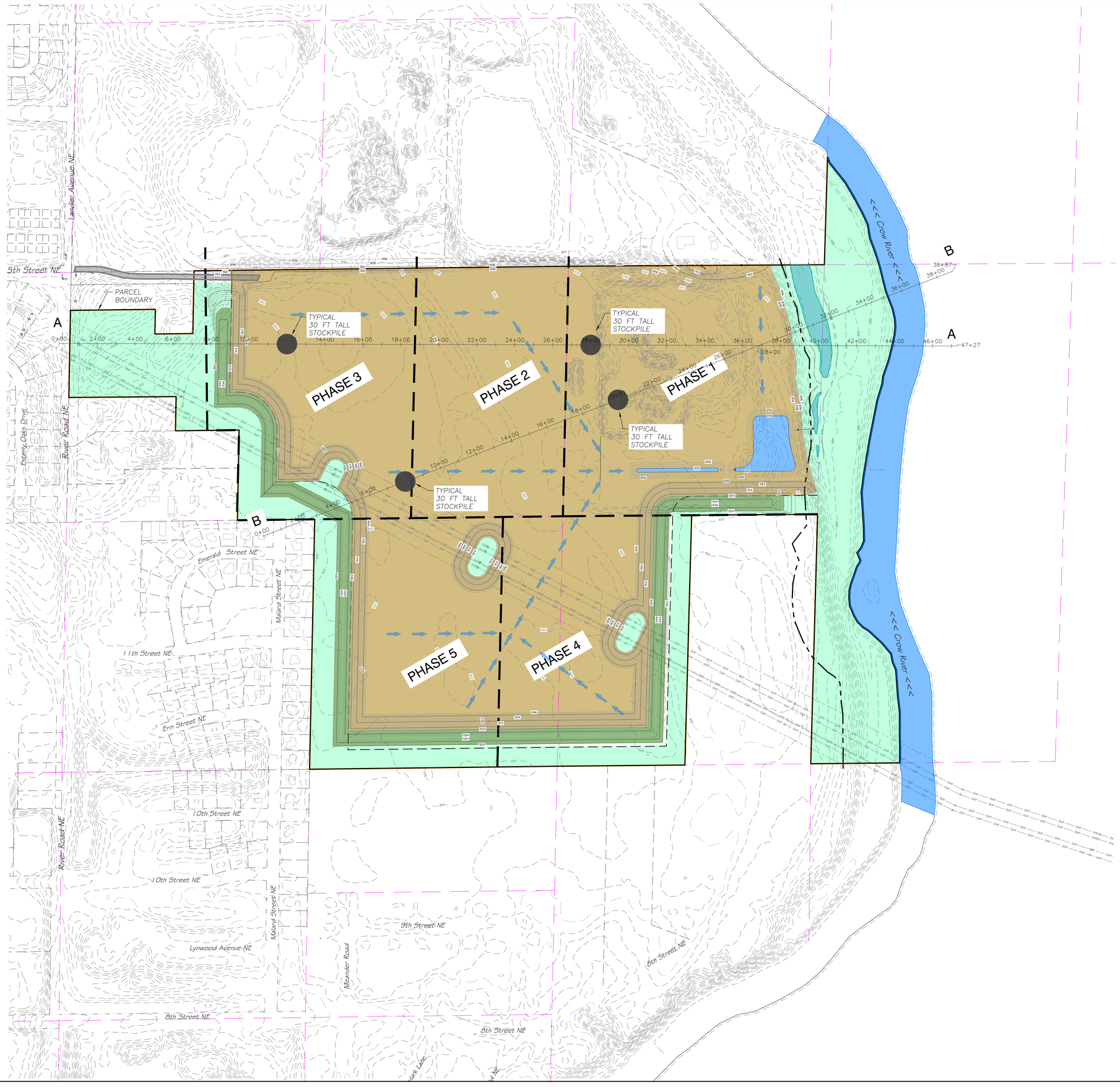


0 100 200 300
GRAPHIC SCALE IN FEET

EXISTING P.I.D. #S

108-500-303-200	HANOVER
108-500-254-200	HANOVER
108-500-254-400	HANOVER
108-500-303-300	HANOVER
114-800-302-400	ST MICHAEL

APPROXIMATE GROSS AREA

184.9 ACRES

APPROXIMATE EXCAVATION AREA

133.9 ACRES

EXCAVATION PHASE DATA

PHASE 1	36.5 AC	2019-2021 *	
PHASE 2	24.2 AC	2022-2024	
PHASE 3	31.2 AC	2025-2030	
PHASE 4	29.9 AC	2031-2034	
PHASE 5	29.9 AC	2035-2039	

* PHASE 1 AREA INCLUDES EXISTING ACTIVE MINE OPERATIONS

NOTE: 10 FT HIGH BERM TO BE REPOSITIONED IN CONJUCTION WITH EXCAVATION PHASE

LEGEND:

- PROJECT PROPERTY BOUNDARY
- EXISTING CONTOUR INDEX
- EXISTING CONTOUR INTERMEDIATE
- PROPOSED CONTOUR INDEX
- PROPOSED CONTOUR INTERMEDIATE
- PROPOSED DRAINAGE DIRECTION
- STORM WATER MANAGEMENT BASIN
- CROW RIVER
- EXISTING WETLAND AREA
- BERM 10 FT HIGH
- MINE EXCAVATION AREA
- NON-MINED AREA
- ACCESS DRIVE
- PHASE LIMIT

Fehn Companies, Inc.
5050 Barthel Industrial Dr.
Albertville, MN 55301
Gary Fehn
612-282-6542
gfehn@fehncompanies.com

MAHLER AGGREGATE MINE EXPANSION

SE Quad 15th Street and River Road
Hanover, MN 55341

VIEW SHED ANALYSIS
PLAN VIEW

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

Date: _____ Reg. No. _____

PREPARED BY: CIVIL ENGINEERING SITE DESIGN
118 East Broadway St.
PO Box 653
Monticello, MN 55362
Phone 763-271-7929
www.civilesd.com

REVISIONS

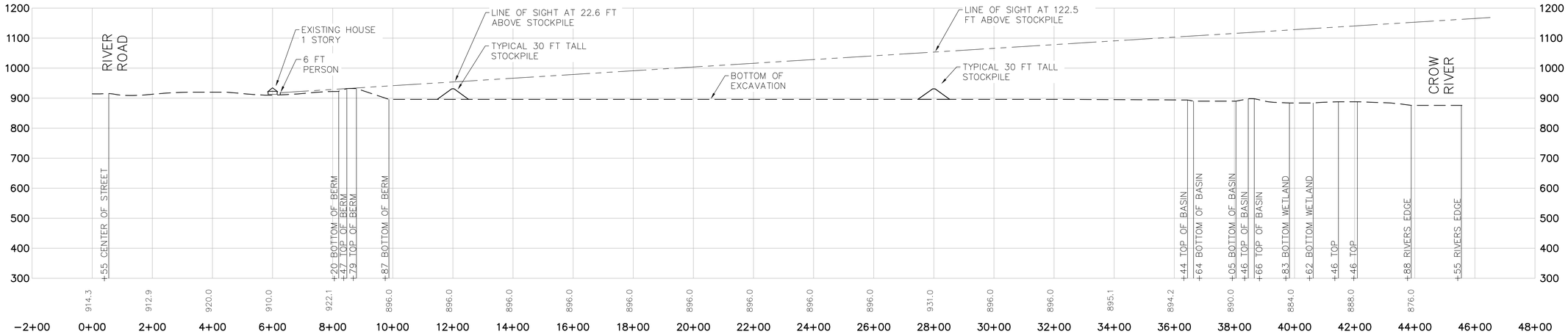
DATE 12/02/19	DRAWN BY SD	DESIGNED BY SD	CHECKED BY SD

FILE NO. 00722

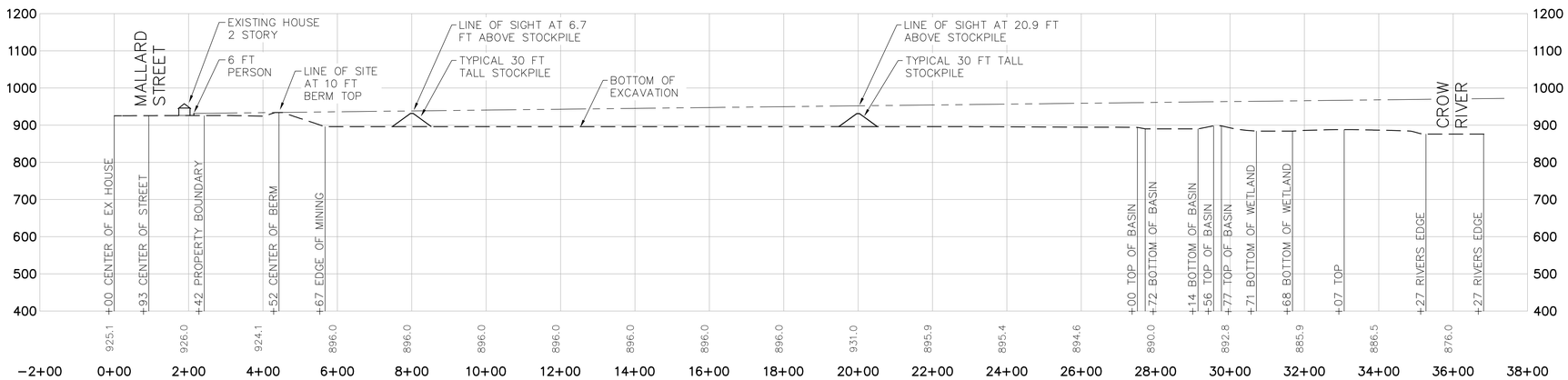
1/3

View Shed Analysis
Plan View

SECTION- A



SECTION- B



HORIZONTAL SCALE 1"=150'
VERTICAL SCALE 1"=150'

Fehn Companies, Inc.
5050 Barthel Industrial Dr.
Albertville, MN 55301
Gary Fehn
612-282-6542
gfehn@fehncompanies.com

MAHLER AGGREGATE MINE EXPANSION

SE Quad 15th Street and River Road
Hanover, MN 55341

VIEW SHED ANALYSIS SECTIONS

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

Date: _____ *Reg. No.* _____

PREPARED BY:

118 East Broadway St.
PO Box 1029
Monticello, MN 55362
Phone: 763-271-3600
www.polaris.com

REVISIONS

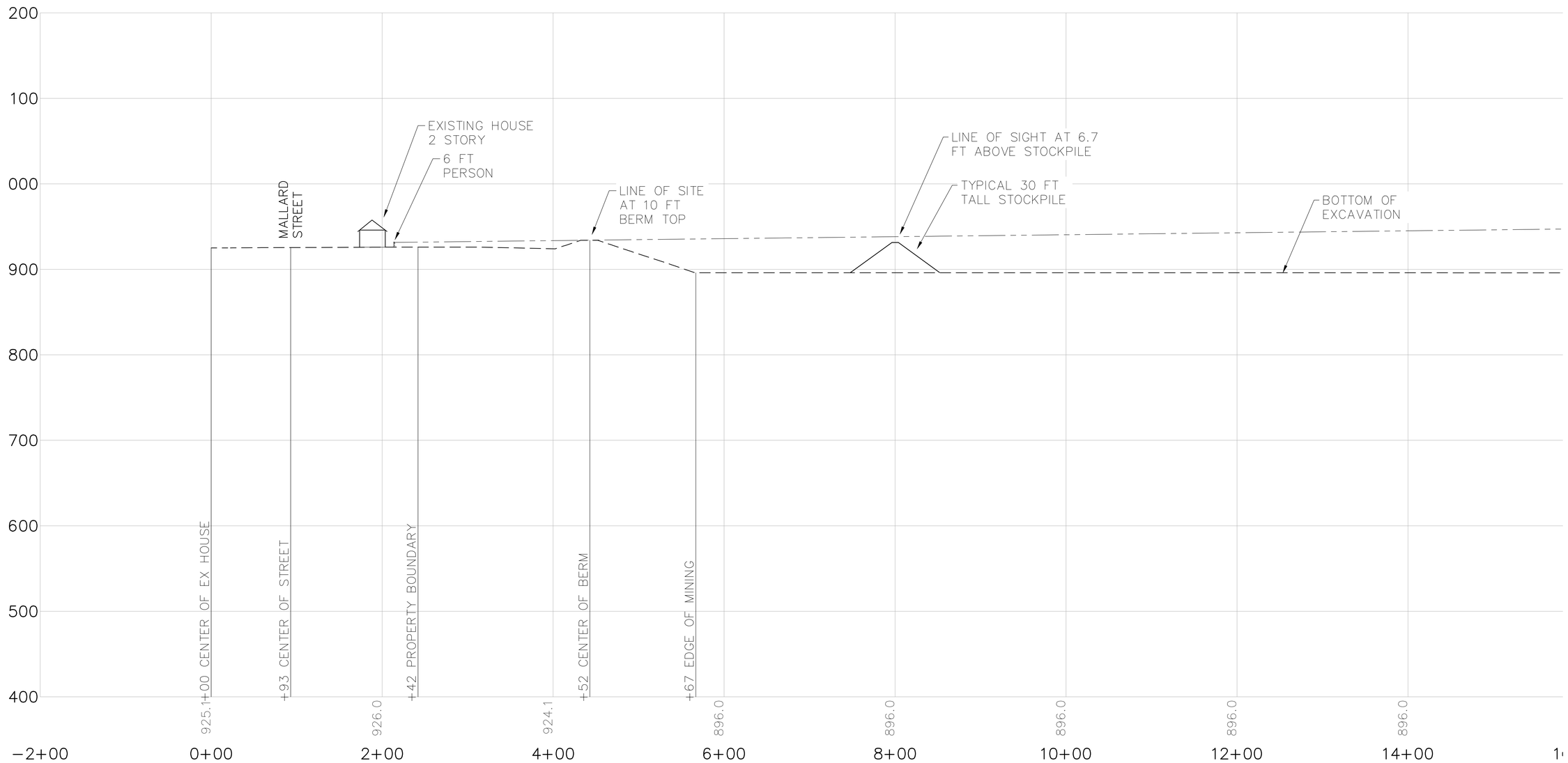
DATE 12/02/19	*DRAWN BY* SD	*DESIGNED BY*	*CHECKED BY*

FILE NO. 00722

2/3

View Shed Analysis Sections

SECTION- B
0+00 TO 14+00



HORIZONTAL SCALE 1"=50'
VERTICAL SCALE 1"=50'

Fehn Companies, Inc.
5050 Barthel Industrial Dr.
Albertville, MN 55301

Gary Fehn
612-282-6542
gfehn@fehncompanies.com

MAHLER AGGREGATE MINE EXPANSION

SE Quad 15th Street and River Road
Hanover, MN 55341

VIEW SHED ANALYSIS SECTIONS

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

Date: _____ *Reg. No.* _____

PREPARED BY:

118 East Broadway St.
PO Box 566
Monticello, Mn 55362
Phone: 763-314-0929
www.civilesd.com

REVISIONS

DATE	*12/02/19*
DRAWN BY	*SD*
DESIGNED BY	
CHECKED BY	

FILE NO. *00722*

3/3

View Shed Analysis Sections