



Phone: (701) 280-0187
Fax: (701) 280-9021

**Moorhead Area Public Schools Improvements
Robert Asp Elementary School Addition
Moorhead, MN**

**Project No. 13-041
Date: April 4, 2014**

BID DATE & TIME: Tuesday, April 8, 2014 at 2:00 pm

ADDENDUM No. 2

The following additions, clarifications, deletions and/or changes shall be made to the SPECIFICATIONS:

Section 00 0100 - Bid Package Summary

1. Bid Package 31A Earthwork, delete Section 31 2525 - Geotextile.
2. Bid Package 32B Landscaping, add Section 31 2525 - Geotextile.

Section 00 1100 - Advertisement for Bids

1. Delete reference to separate envelopes for the bidders bond and bid proposal forms. The state of Minnesota only requires one sealed envelope that includes both the bid form and bid bond.

Section 32 9219 - Seeding

1. Paragraph 3.06 add B. Maintain seeded areas immediately after placement until grass is well established and exhibits a vigorous grow condition or to fall dormancy. Insure growth is established at following spring. Owner will be responsible for watering and the contractor is to coordinate watering activities with owner to comply with one year period. Owner is responsible for watering after final completion.

The following additions, deletions and/or changes shall be made to the DRAWINGS:

Sheet A3.1 – Floor Plan

1. Clarification - Window Treatments specified under Section 12 2413 in the Specifications Manual (Bid Package 6A) shall be installed at windows types W1, W2 and W3.

Sheet A3.3 - Roof Plan / Details

1. Roof Plan Notes: Number 1, delete the reference to Sarnafil PVC membrane roofing. Replace text to read 60 mill TPO roof membrane over ...

END OF ADDENDUM No. 2

See additional Addendum No. 2 Items attached (Structural and Electrical).



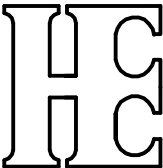
LIGHT GAUGE FRAMING NOTES:

1. LIGHT GAUGE STEEL CONSTRUCTION SHALL CONFORM TO THE FOLLOWING STANDARDS:
AMERICAN IRON & STEEL INSTITUTE (AISI) - "SPECIFICATION FOR THE DESIGN OF COLD FORMED STRUCTURAL MEMBERS"
ASTM C-455 - "STANDARD SPECIFICATION FOR LOAD BEARING STEEL STUDS, TRACKS, & BRIDGING."
ASTM C-1007 - "STANDARD SPECIFICATION FOR INSTALLATION OF LOAD BEARING STEEL STUDS & RELATED ACCESSORIES."
 2. LIGHT GAUGE FRAMING MEMBERS SHALL BE SIZED AS SHOWN ON THE CONTRACT DOCUMENTS.
 3. TRACKS SHALL BE INSTALLED AT THE TOPS AND BOTTOMS OF ALL VERTICAL STUDS AND SHALL BE THE SAME GAUGE AS THE WALL STUDS. TRACKS SHALL BE CONNECTED TO THE STUDS WITH (2) #8 SCREWS (MIN), ONE AT EACH FLANGE.
 4. WELDED CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH THE LATEST RECOMMENDATION OF:
AISI - AMERICAN IRON AND STEEL INSTITUTE
AWS - AMERICAN WELDING SOCIETY
 5. DESIGN CRITERIA: EXTERIOR CURTAIN WALLS:
WIND: 90 mph, EXPOSURE "C"
DEFLECTION: L/600
 6. YIELD STRENGTH:
33 ksi - ALL DESIGN THICKNESSES
50 ksi - 16 GA. AND HEAVIER
- ASTM A653, A975, A792 OR A463
(6-60 GALV. FINISH, MIN)
7. ALL WALL STUDS SHALL BE BRACED WITH A COLD ROLLED CHANNEL RUN THROUGH THE STUD PUNCH OUTS AND ATTACHED TO A CLIP ANGLE AT EACH STUD. THE COLD ROLLED CHANNELS SHALL BE 1½" x 1½", 16 GA. AND ATTACHED WITH (2) SCREWS PER FLANGE. AT SPLICES, OVERLAP THE CHANNEL BY 12". VERTICAL SPACING OF CHANNELS SHALL NOT EXCEED 4'-0" O.C.



LIGHT GAUGE FRAMING NOTES: (CONT.)

8. STRUCTURAL FRAMING MEMBERS SHALL CONFORM TO ASTM C455 & HAVE ENGINEERING PROPERTIES CALCULATED IN CONFORMANCE WITH AISI "SPECIFICATION FOR THE DESIGN OF COLD - FORMED STEEL STRUCTURAL MEMBERS".
9. NO NOTCHING OF STUDS, JOISTS, BEAMS OR TRUSS MEMBERS IS PERMITTED WITHOUT THE ENGINEERS APPROVAL.
10. WEB PUNCH OUTS MUST BE LOCATED @ A MIN. 1'-0" CLEAR FROM ALL BEARING LOCATIONS.
11. JOISTS MUST BE BRACED AGAINST ROTATION @ ALL BRG SUPPORTS BY TRACK OR BLOCKING.
12. PROVIDE HORIZONTAL BRIDGING AT ALL JOIST MEMBERS AS RECOMMENDED BY THE AISI "SPECIFICATION FOR THE DESIGN OF COLD FORMED STRUCTURAL MEMBERS" WITH MINIMUM ROWS AS FOLLOWS: (DOWN)
SPANS UP TO 14'-0" - 1 ROW AT MIDPOINT
14'-0" UP TO 20'-0" - 2 ROWS @ THIRD POINTS
20'-0" & GREATER - 1 ROW EVERY 6'-0" O.C.
BRIDGING MATERIALS SHALL BE SAME GRADE AND GAUGE AS JOIST MEMBERS
13. TRACKS SHALL BE INSTALLED AT EACH END OF JOIST MEMBERS AND SHALL BE THE SAME GAUGE AS THE JOISTS. TRACKS SHALL BE CONNECTED TO THE JOISTS W/ (2) #8 SCREWS (MIN), ONE @ EACH FLANGE.
14. ALL JOISTS, BEAMS, GIRDERS AND TRUSSES SHALL HAVE FULL HORIZONTAL BEARING OF THE MEMBER OVER SUPPORT UNLESS OTHERWISE SHOWN.



HEYER ENGINEERING, PC
STRUCTURAL CONSULTANT

1020 36th Street SW, Fargo, ND 58103
(P) 701.280.0949 (F) 701.280.9686

Project Moorhead Area Public Schools Improvements

Robert Asp Elementary School Addition

Moorhead, Minnesota

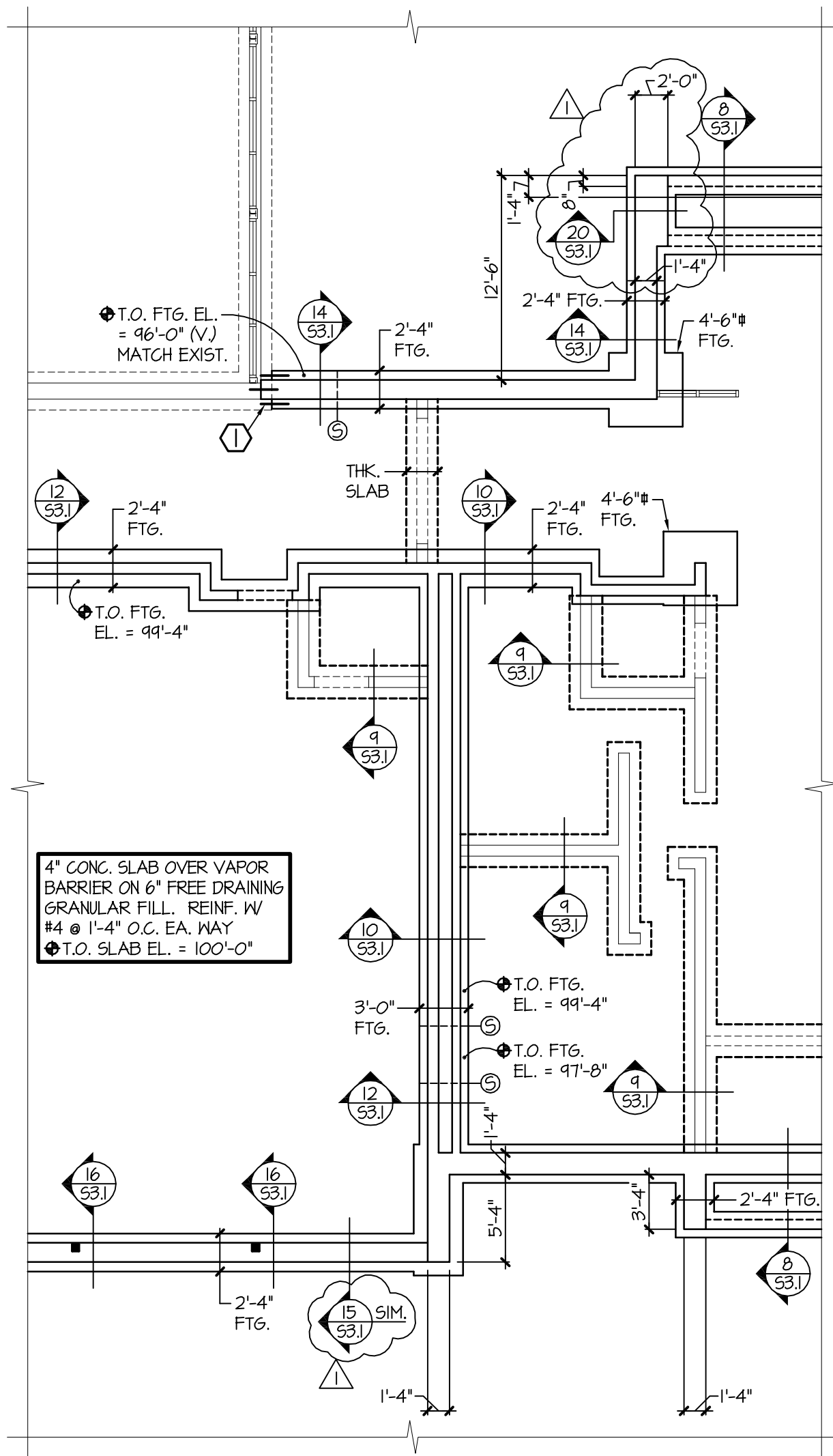
Re Addendum I - Ref. Sheet - 50.I

Sheet No. SA-I

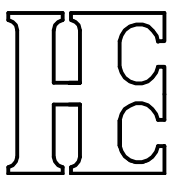
Job No. 094.0054.2013

Date 4.2.2014

By EAG/CH



(PARTIAL)
FOOTING & FOUNDATION PLAN
 1/8" = 1'-0" T.O. FTG. EL. = 96'-0" (U.O.N.)



HEYER ENGINEERING, PC
STRUCTURAL CONSULTANT
 1020 36th Street SW, Fargo, ND 58103
 (P) 701.280.0949 (F) 701.280.9686

Project Moorhead Area Public Schools Improvements

Robert Asp Elementary School Addition

Moorhead, Minnesota

Re: Addendum I - Ref. Sheet - SI.1

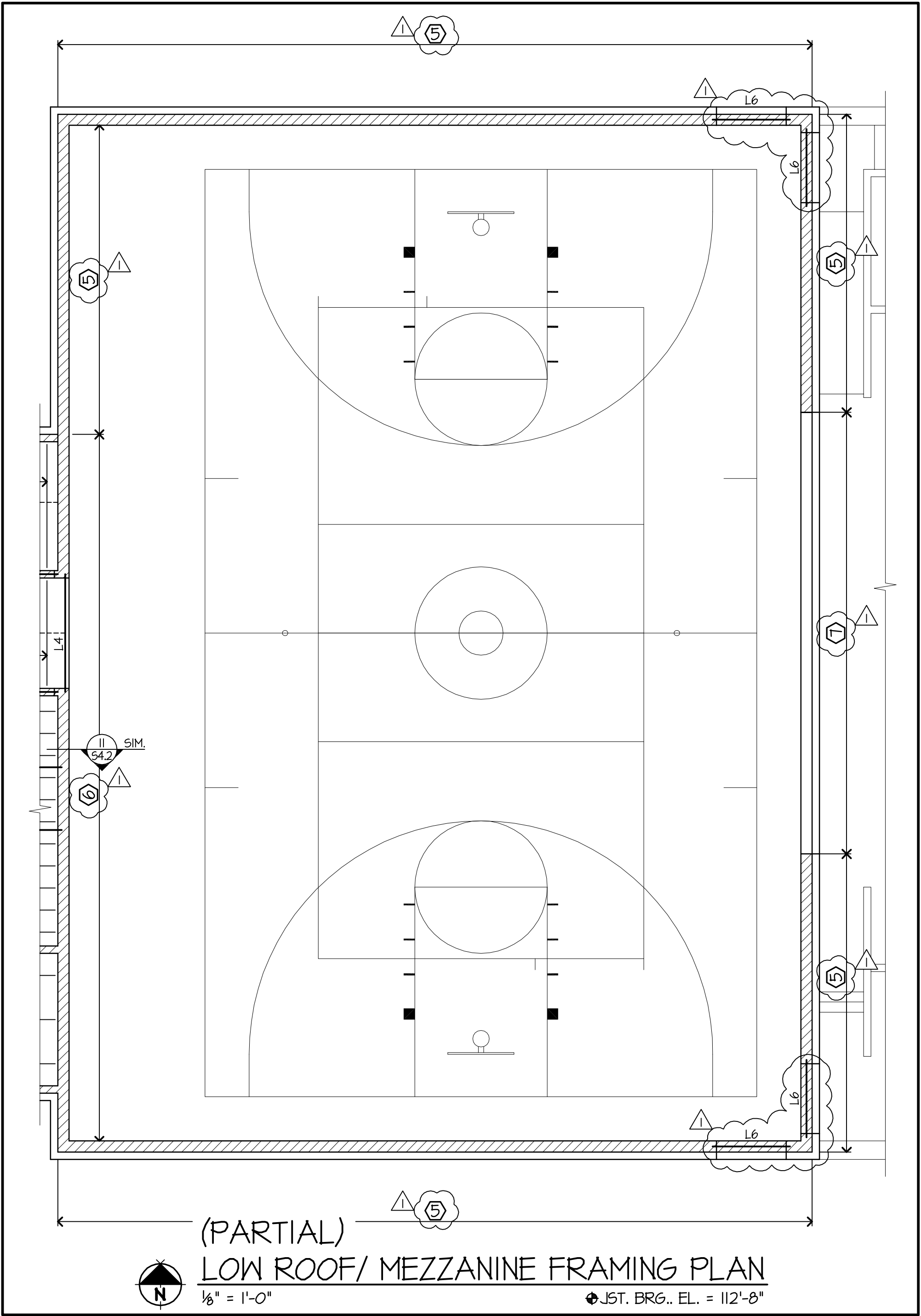
Sheet No. SA-2

Job No. 094.0054.2013

Date 4.2.2014

By EAG/CH





HEYER ENGINEERING, PC
STRUCTURAL CONSULTANT
1020 36th Street SW, Fargo, ND 58103
(P) 701.280.0949 (F) 701.280.9686

Project	Moorhead Area Public Schools Improvements	Sheet No.	SA-4
	Robert Asp Elementary School Addition	Job No.	094.0054.2013
	Moorhead, Minnesota	Date	4.2.2014
Re	Addendum I - Ref. Sheet - 52.I	By	EAG/CH

LINTEL SCHEDULE	
MARK	LINTEL
L1	M 8x10
L2	M 8x21
L3	M 8x21 W/ 3/8" LINTEL R
L4	M 16x31
L5	M 8x24
L6	M 8x24 W/ 3/8" LINTEL R

SHEET NOTES:

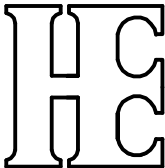
5. REINF. ALL CMU WALLS W/ - #8 @ 4'-0" O.C. (U.O.N.)
(CENTER IN CELL)

KEY NOTES:

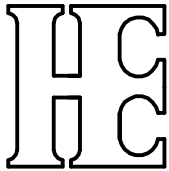
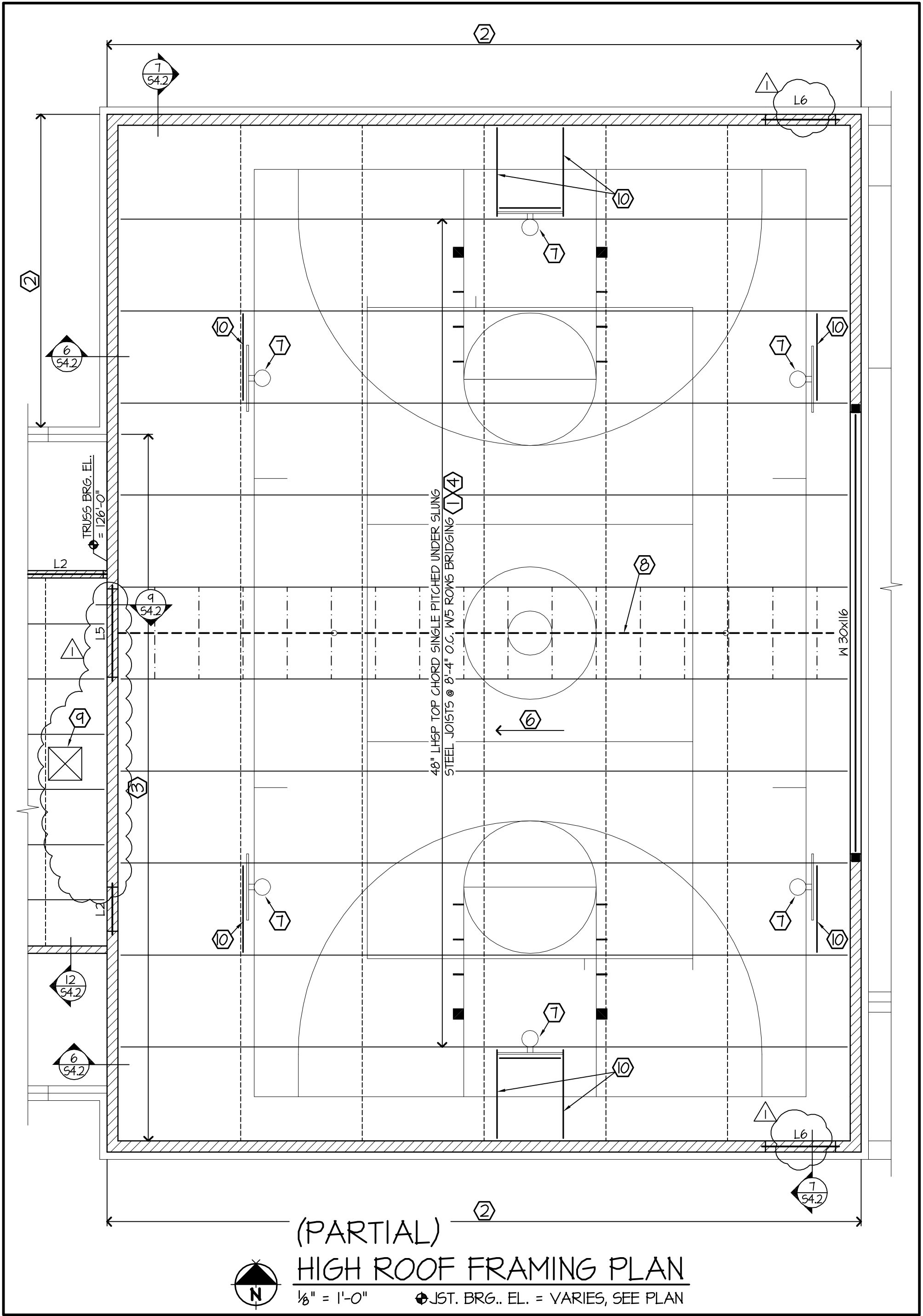
2. POCKET & BEAR NEW BEAM ON EXISTING CMU WALL. SIMILAR TO DETAIL 1/54.2 GROUT CORES SOLID BELOW BEAM IF NOT GROUTED ALREADY.
3. 4" TOTAL THICKNESS MECHANICAL FLOOR SLAB OVER 1", TYPE 'C' 226A. DECK OVER 10K1 STEEL JOISTS @ 2'-0" O.C. S.D. 11/54.1 REINF. W/ 6x6 - W2.9xW2.9 OR NOVOMESH 850 OR EQUIVALENT.
4. 4" TOTAL THICKNESS MECHANICAL FLOOR SLAB OVER 1", TYPE 'C' 226A. DECK OVER 16K2 STEEL JOISTS @ 2'-0" O.C. S.D. 11/54.1 REINF. W/ 6x6 - W2.9xW2.9 OR NOVOMESH 850 OR EQUIVALENT.
5. REINF. 12" CMU WALL W/2 - #5 @ 2'-0" O.C. S.D. 14/54.1 (PLACE BARS 3/4" FROM EACH FACE SHELL).
6. REINF. 12" CMU WALL W/2 - #5 @ 4'-0" O.C. S.D. 14/54.1 (PLACE BARS 3/4" FROM EACH FACE SHELL).
7. 10005200-68 METAL STUDS @ 1'-4" O.C.



(PARTIAL)
LOW ROOF / MEZZANINE FRAMING PLAN
1/8" = 1'-0"
JUST. BRG.. EL. = 112'-8"



HEYER ENGINEERING, PC
STRUCTURAL CONSULTANT
1020 36th Street SW, Fargo, ND 58103
(P) 701.280.0949 (F) 701.280.9686



HEYER ENGINEERING, PC
STRUCTURAL CONSULTANT
1020 36th Street SW, Fargo, ND 58103
(P) 701.280.0949 (F) 701.280.9686

Project	Moorhead Area Public Schools Improvements	Sheet No.	SA-6
	Robert Asp Elementary School Addition	Job No.	094.0054.2013
	Moorhead, Minnesota	Date	4.2.2014
Re	Addendum I - Ref. Sheet - 52.2	By	EAG/CH

SHEET NOTES:

8. VERIFY LOCATIONS OF ROOF TOP MECHANICAL UNITS & OTHER ROOF TOP OPENINGS W/ MECHANICAL & ARCHITECTURAL. S.D. 8/54.I & 9/54.I FOR FRAMING

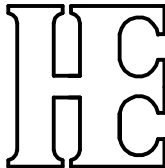
KEY NOTES:

6 SLOPE TOP CHORD 1/4/FT., SEE ARCH.

10 L 4 x 4 x 3/8" SUPPORT BETWEEN JOIST & BETWEEN JOISTS & WALL FOR GOAL SUPPORT. VERIFY SUPPORT REQUIREMENTS W/ GOAL SUPPLIER.

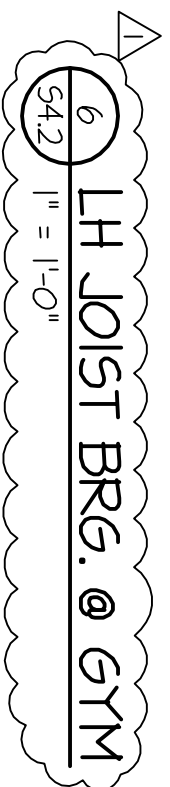
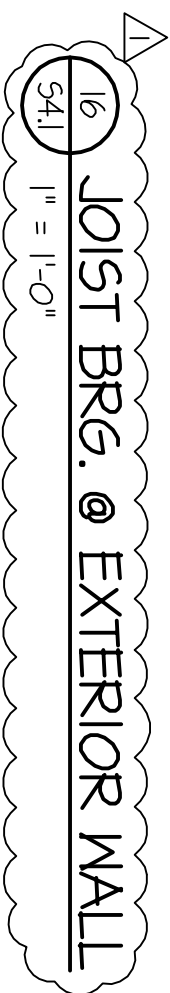


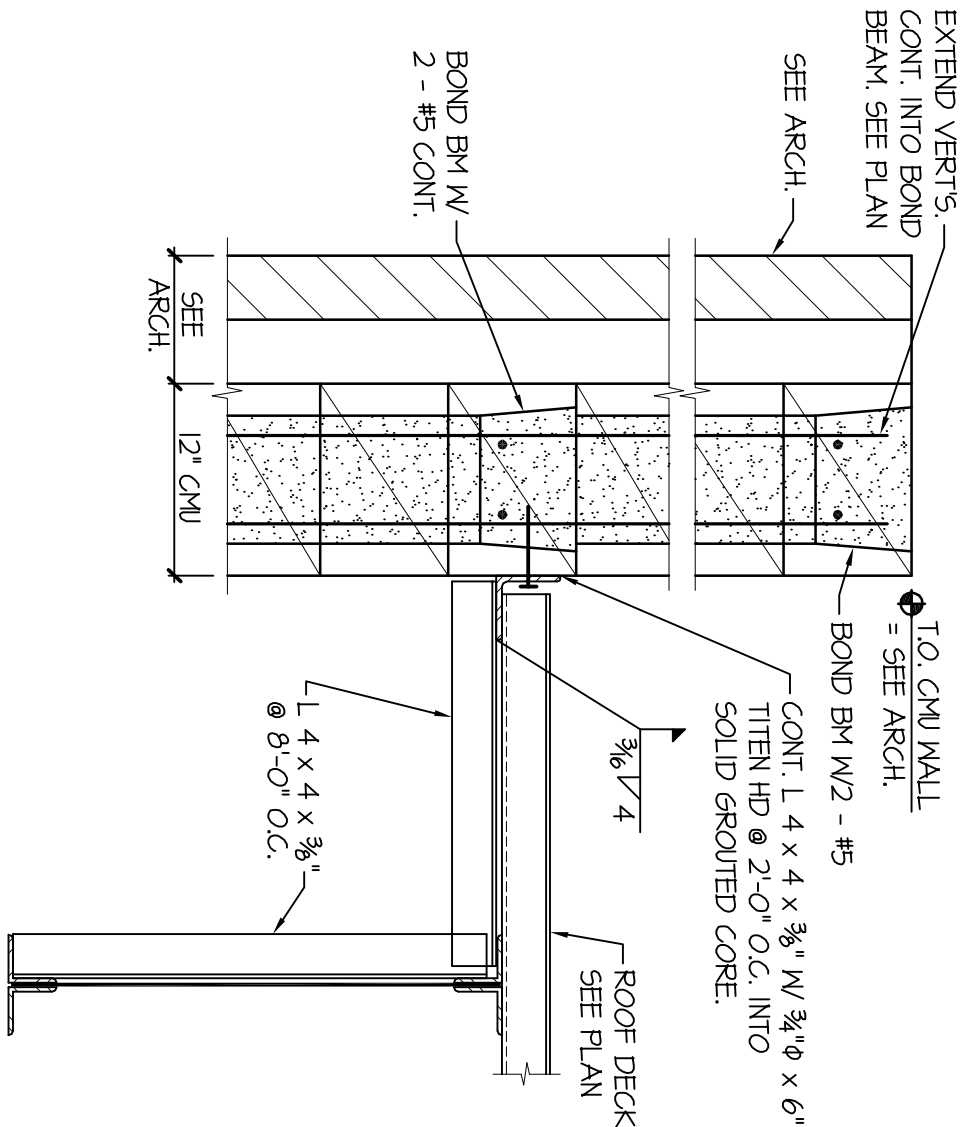
(PARTIAL)
HIGH ROOF FRAMING PLAN
1/8" = 1'-0" 1. JST. BRG.. EL. = VARIES, SEE PLAN



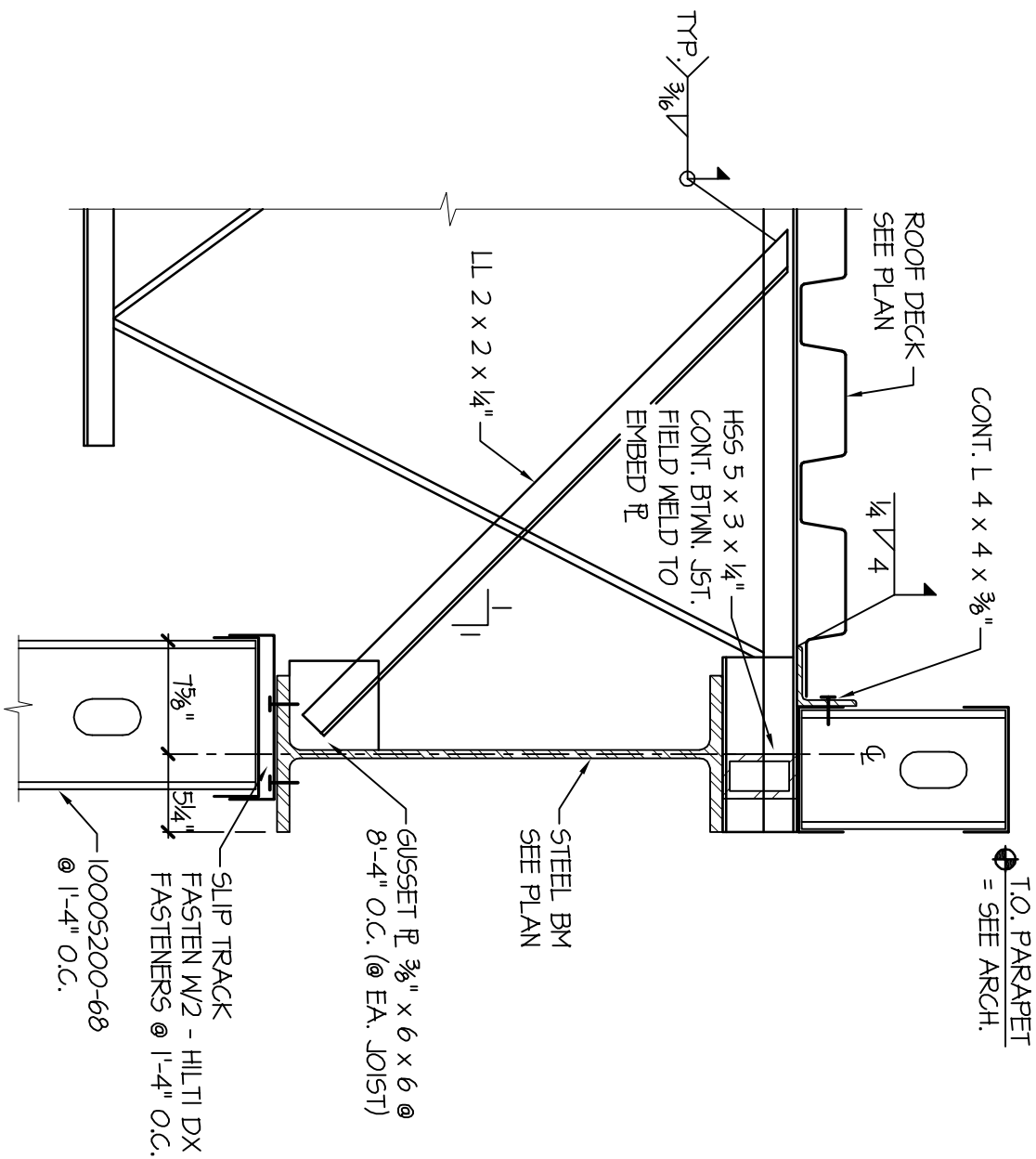
HEYER ENGINEERING, PC
STRUCTURAL CONSULTANT
1020 36th Street SW, Fargo, ND 58103
(P) 701.280.0949 (F) 701.280.9686

Project	Moorhead Area Public Schools Improvements	Sheet No.	SA-7
	Robert Asp Elementary School Addition	Job No.	094.0054.2013
	Moorhead, Minnesota	Date	4.2.2014
Re	Addendum I - Ref. Sheet - 52.2	By	EAG/CH

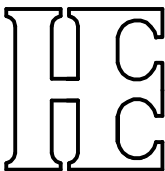




7 DECK BRG. DETAIL - GYMNASIUM
54.2 1" = 1'-0"



8 JOIST BRG. DETAIL
54.2 1" = 1'-0"



HEYER ENGINEERING, PC
STRUCTURAL CONSULTANT

1020 36th Street SW, Fargo, ND 58103
(P) 701.280.0949 (F) 701.280.9686

Project Moorhead Area Public Schools Improvements

Robert Asp Elementary School Addition

Moorhead, Minnesota

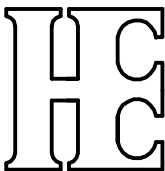
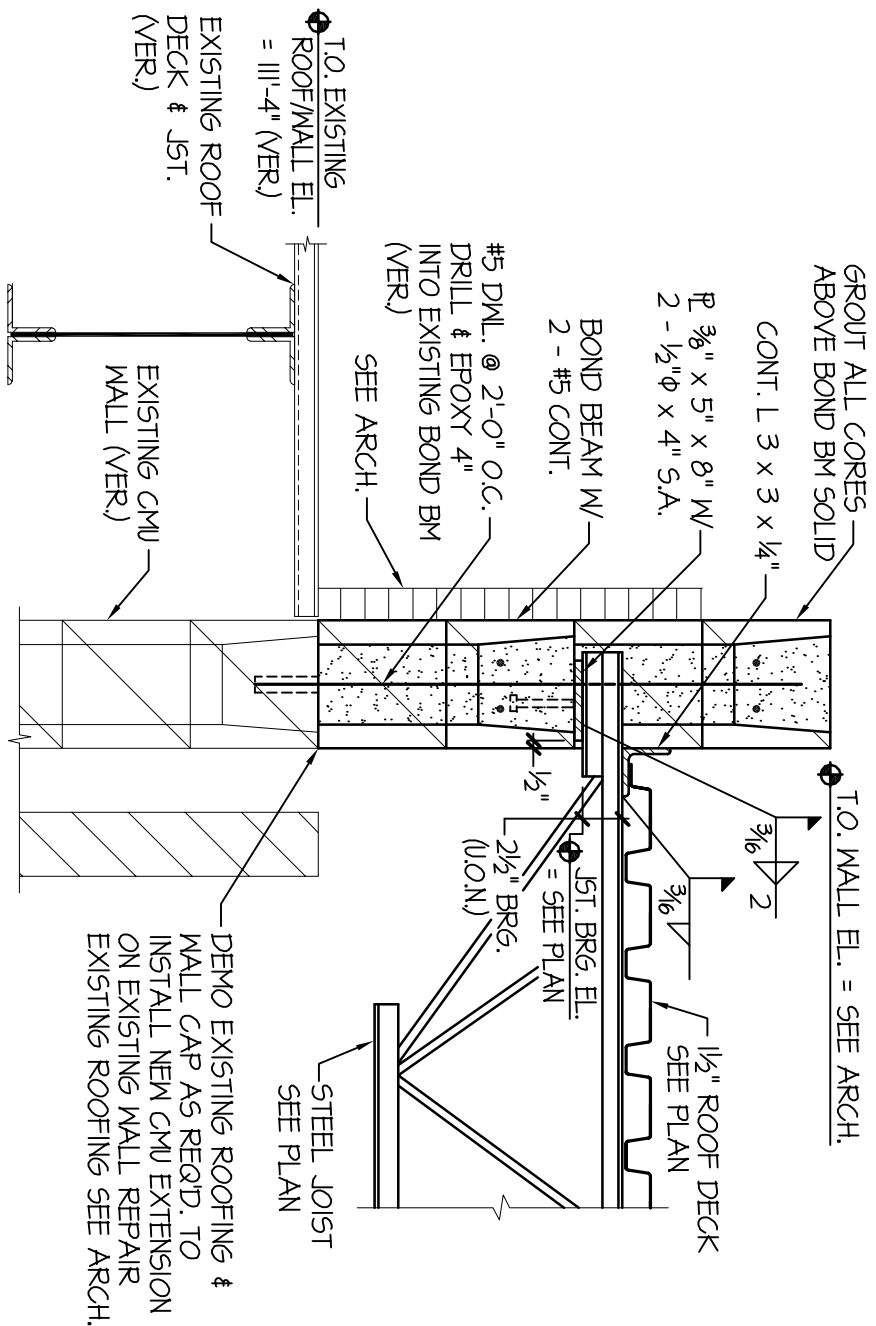
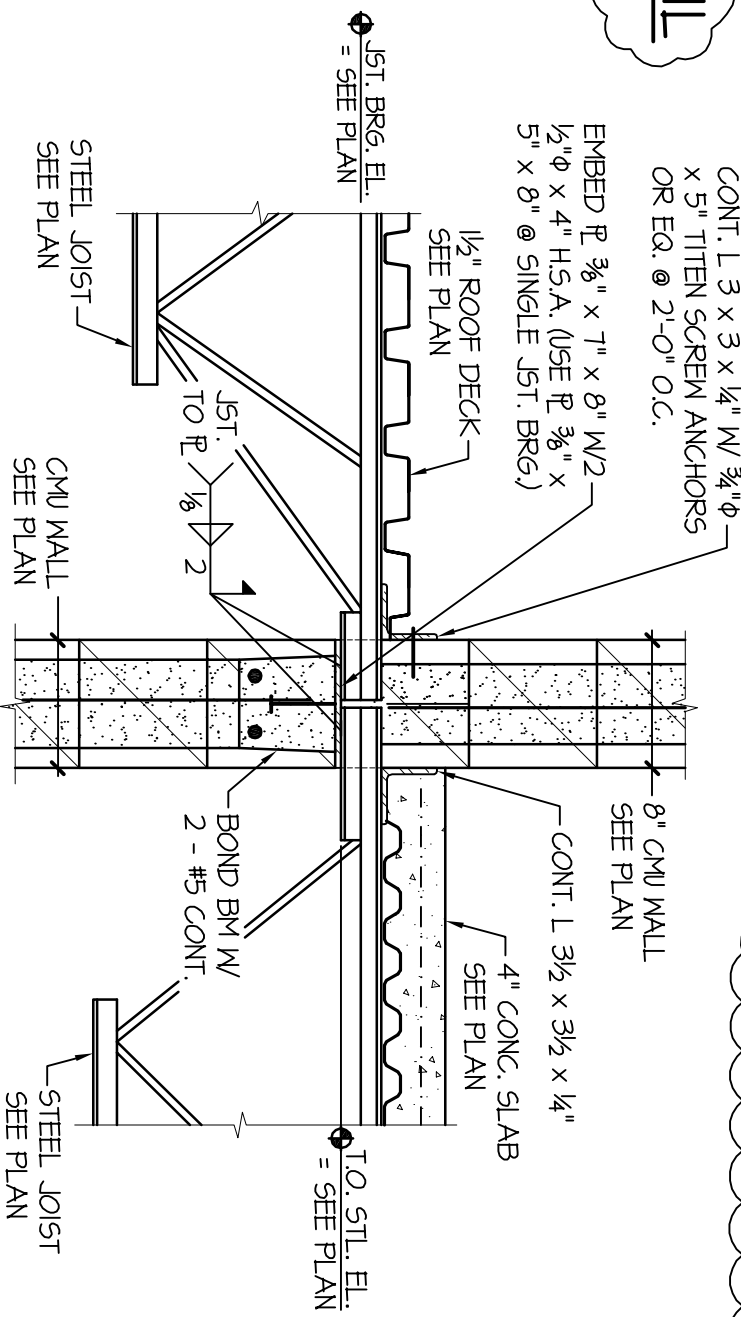
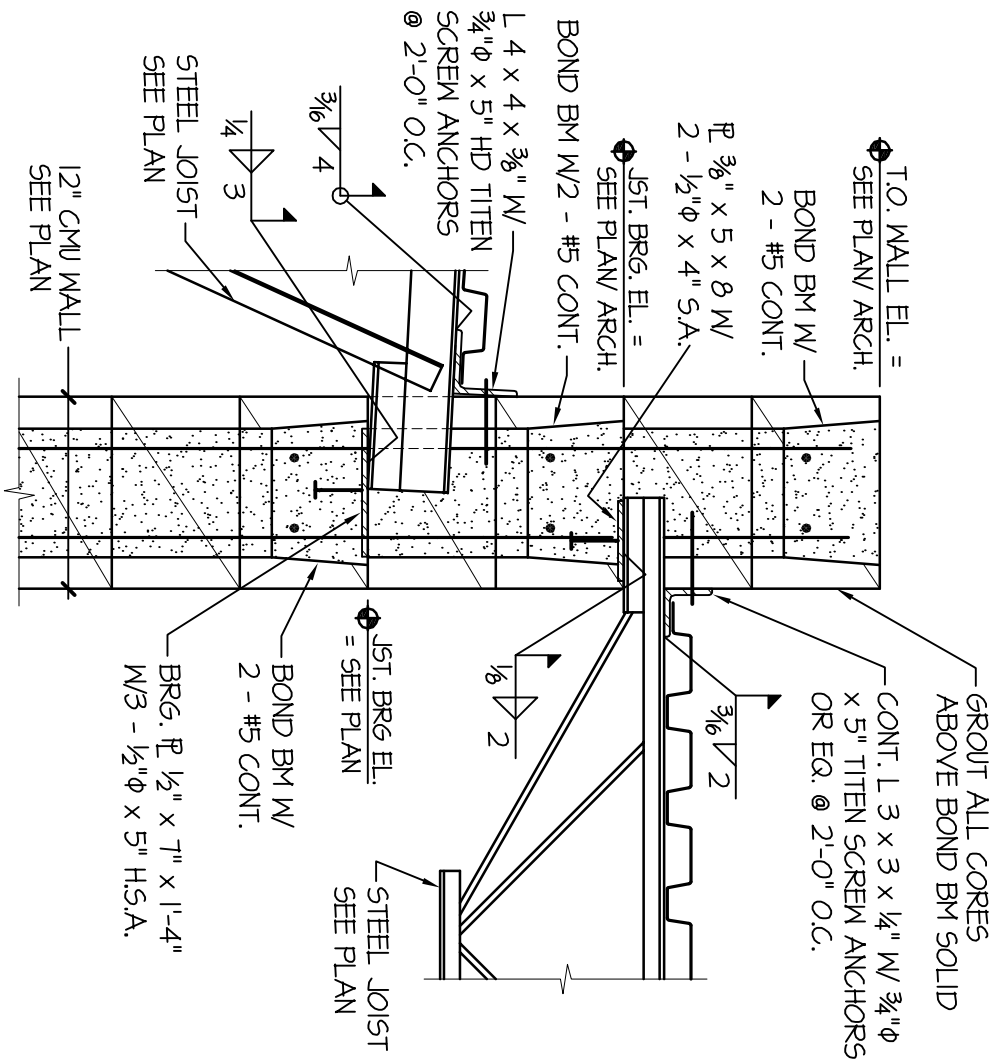
Re Addendum I - Ref. Sheet - 54.2

Sheet No. SA-10

Job No. 094.0054.2013

Date 4.2.2014

By EAG/CH



HEYER ENGINEERING, PC
STRUCTURAL CONSULTANT

1020 36th Street SW, Fargo, ND 58103
(P) 701.280.0949 (F) 701.280.9686

Project Moorhead Area Public Schools Improvements

Robert Asp Elementary School Addition

Moorhead, Minnesota

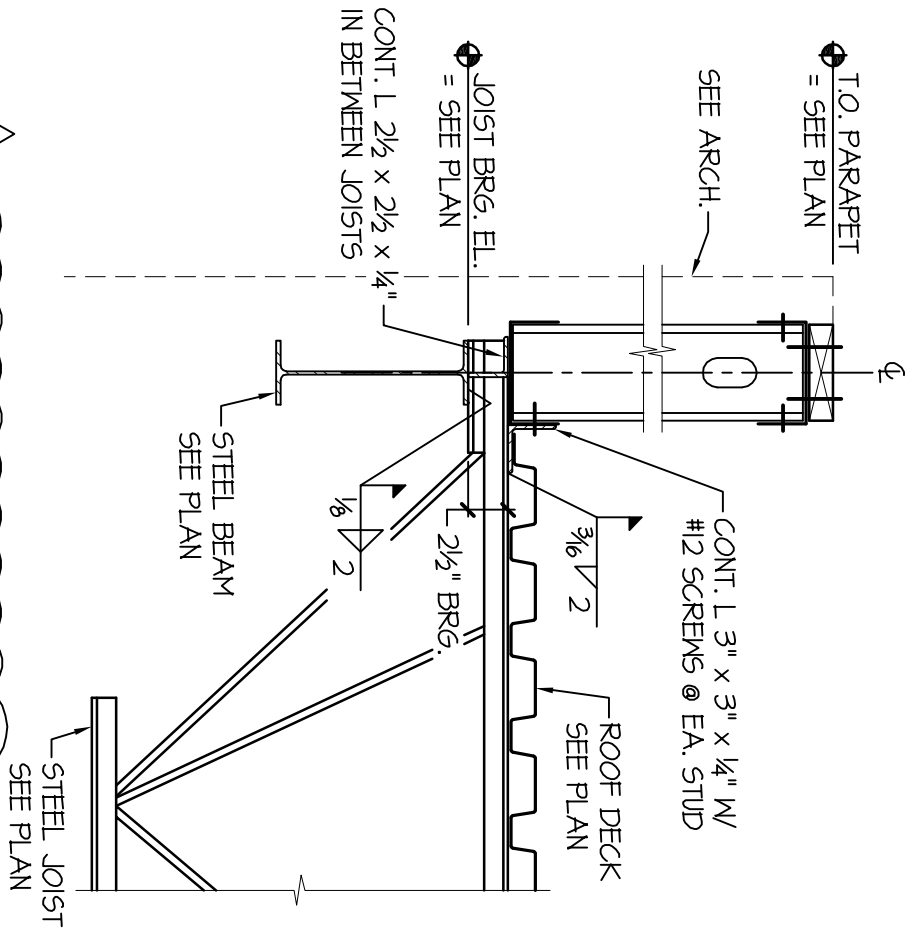
Re Addendum I - Ref. Sheet - 54.2

Sheet No. 5A-II

Job No. 094.0054.2013

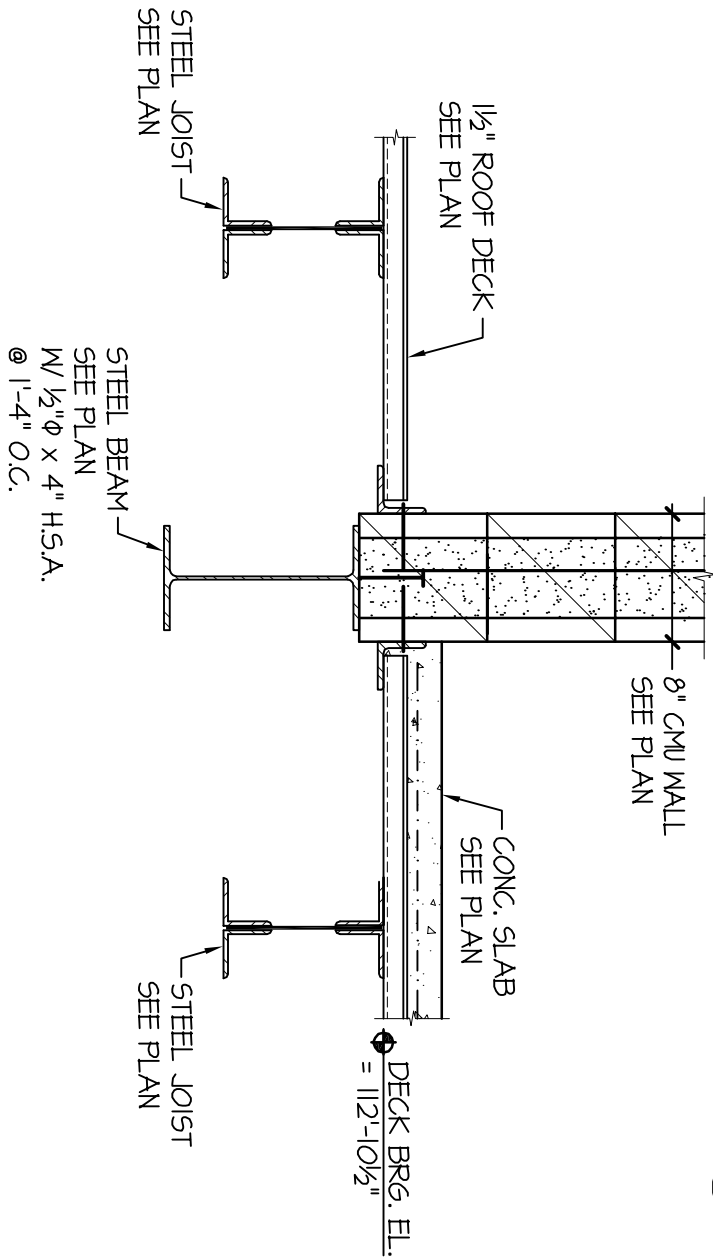
Date 4.2.2014

By EAG/CH



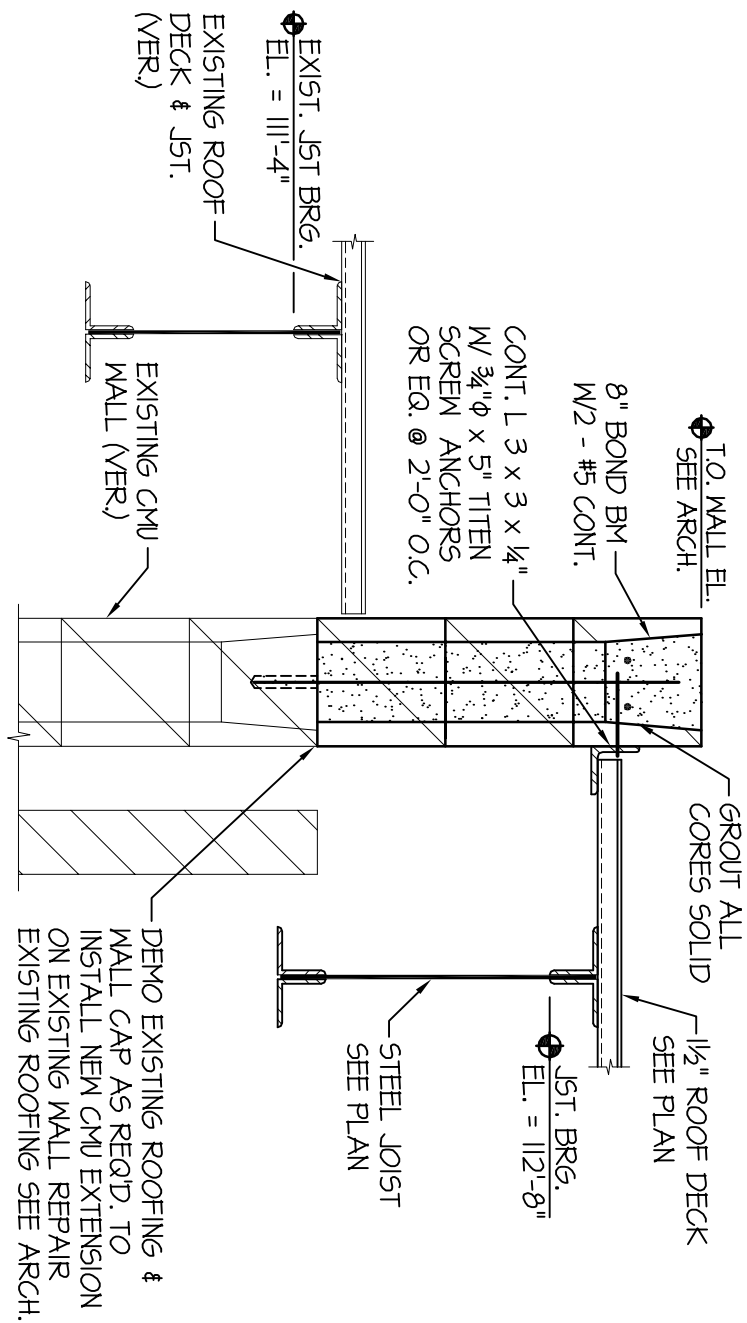
1
54.3
1" = 1'-0"

JOIST BRG. DETAIL



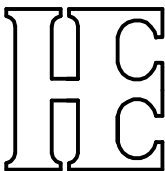
1
54.3
1" = 1'-0"

DECK BRG. @ EXIST'G WALL



1
54.3
1" = 1'-0"

DECK BRG. DETAIL



HEYER ENGINEERING, PC
STRUCTURAL CONSULTANT

1020 36th Street SW, Fargo, ND 58103
(P) 701.280.0949 (F) 701.280.9686

Project Moorhead Area Public Schools Improvements

Robert Asp Elementary School Addition

Moorhead, Minnesota

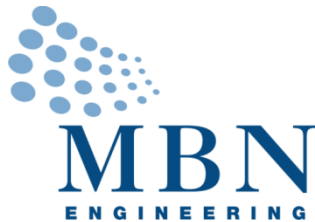
Re Addendum I - Ref. Sheet - 54.3

Sheet No. SA-12

Job No. 094.0054.2013

Date 4.2.2014

By EAG/CH



April 4th, 2014

Jim Cole
Zerr Berg Architects
510 4th Ave. N.
Fargo, ND 58102

RE: Robert Asp Elementary School Addition
Addendum No. 2 – Electrical Items
MBN Project No. 13-230

Please include the following items in the next addendum issued for the project:

Changes to the Drawings:

Sheet E4.0:

1. Add addressable fire alarm modules as necessary to monitor new sprinkler zone flow and trouble conditions, coordinate with fire protection contractor.

Sheet E5.0:

1. Detail 1/E5.0 Electrical One Line: A feeder size of (3) 350 MCM, #4 G in 2 ½" conduit is also acceptable.

Changes to the Specifications:

Section 27-1005 Structured Cabling for Voice and Data

1. Paragraph 2.07.B.: Delete wall rack and revise to open frame, two post floor mounted rack equal to Chatsworth 55503 Series, 45 rack spaces. Provide vertical cable management on each side of rack equal to Panduit WMPVF45E Series, and vertical rack grounding strip equal to Panduit RGS Series. Install rack a minimum of 25" off wall to provide clearance for owner provided switches, coordinate installation with owner.

Section 27-5125 Sound Reinforcement Systems:

1. Paragraph 2.02.D: Delete CD player and provide Tascam TU 690 Series AM/FM tuner for gymnasium sound system.

END OF ADDENDUM NO. 2