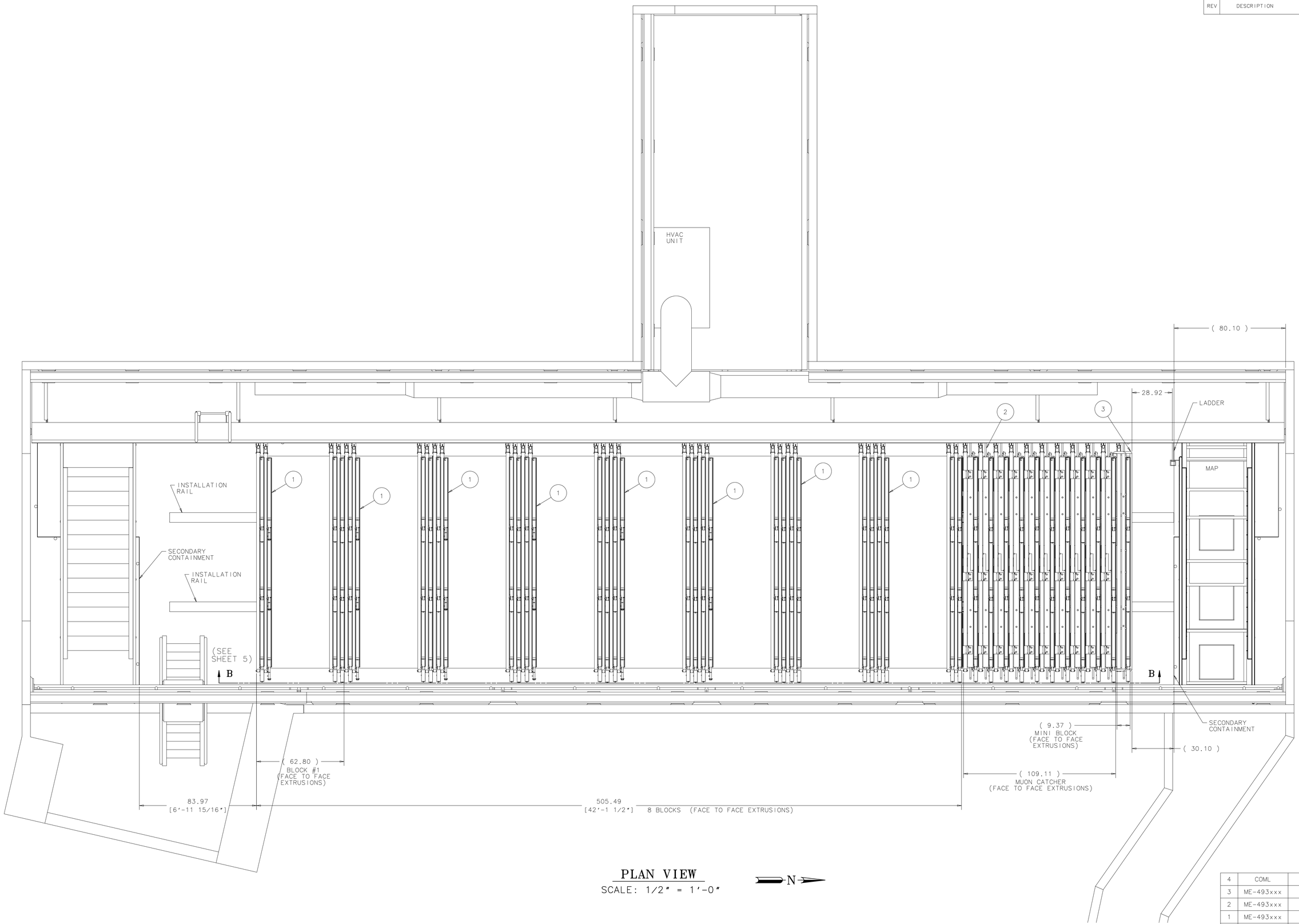
REV	DESCRIPTION	DRAWN	DATE
		APPROVED	DATE



PLAN VIEW

SCALE: 1/2" = 1'-0"

N

NOTES :

1. SHEET LEGEND:
   - SHEET 1 - PLAN VIEW
   - SHEET 2 - EAST ELEVATION
   - SHEET 3 - SOUTH ELEVATION
   - SHEET 4 - SECTION A-A
   - SHEET 5 - SECTION B-B
   - SHEET 6 - ISOMETRIC VIEW

ITEM	PART NO.	DESCRIPTION OR SIZE	QTY.
4	COML	SHIM PLATE 1/4" THK STEEL	AS REQD
3	ME-493xxx	MINI BLOCK ASSY	1
2	ME-493xxx	MUON CATCHER ASSY	1
1	ME-493xxx	24 PLANE ND BLOCK ASSY	8

PARTS LIST

UNLESS OTHERWISE SPECIFIED			ORIGINATOR	E.VILLEGAS	30-NOV-2012
.XX	.XXX	ANGLES	DRAWN	D.FRIEND	30-NOV-2012
± .25	± ---	± ---	CHECKED		
			APPROVED		

1. BREAK ALL SHARP EDGES MAX.
2. DO NOT SCALE DRAWING.
3. DIMENSIONS BASED UPON ASME Y14.5M-1994
4. MAX. ALL MACH. SURFACES
5. DRAWING UNITS: U.S. INCH

USED ON

MATERIAL: SEE PARTS LIST ABOVE

FERMI NATIONAL ACCELERATOR LABORATORY
UNITED STATES DEPARTMENT OF ENERGY

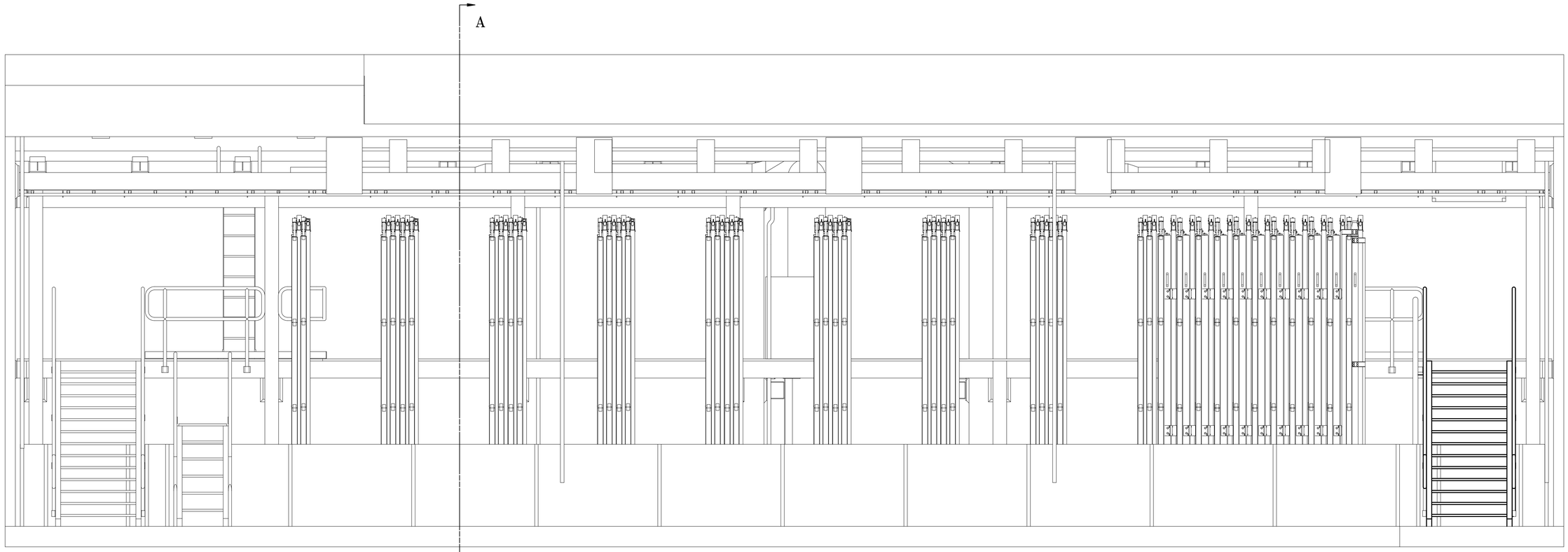
NOVA-NEAR_DETECTOR
NEAR DETECTOR INSTALLATION
ND CAVERN ASSEMBLY LAYOUT

SCALE	DRAWING NUMBER	SHEET	REV
AS NOTED	3929.330-ME-493175	1 OF 6	

CREATED WITH : Ideas12NXSeries | GROUP: PPD/MECHANICAL DEPARTMENT

PRELIMINARY
30-NOV-2012

REV	DESCRIPTION	DRAWN	DATE
		APPROVED	DATE



(SEE SHEET 4)

EAST ELEVATION

SCALE: 1/2"=1'-0"

PRELIMINARY
30-NOV-2012

UNLESS OTHERWISE SPECIFIED			ORIGINATOR	E.VILLEGAS	30-NOV-2012
.XX	.XXX	ANGLES	DRAWN	D.FRIEND	30-NOV-2012
± .25	± ---	± ---	CHECKED		
1. BREAK ALL SHARP EDGES MAX.			APPROVED		
2. DO NOT SCALE DRAWING.			USED ON		
3. DIMENSIONS BASED UPON ASME Y14.5M-1994					
4. MAX. ALL MACH. SURFACES			MATERIAL	SEE PARTS LIST ABOVE	
5. DRAWING UNITS: U.S. INCH					

FERMI NATIONAL ACCELERATOR LABORATORY
UNITED STATES DEPARTMENT OF ENERGY

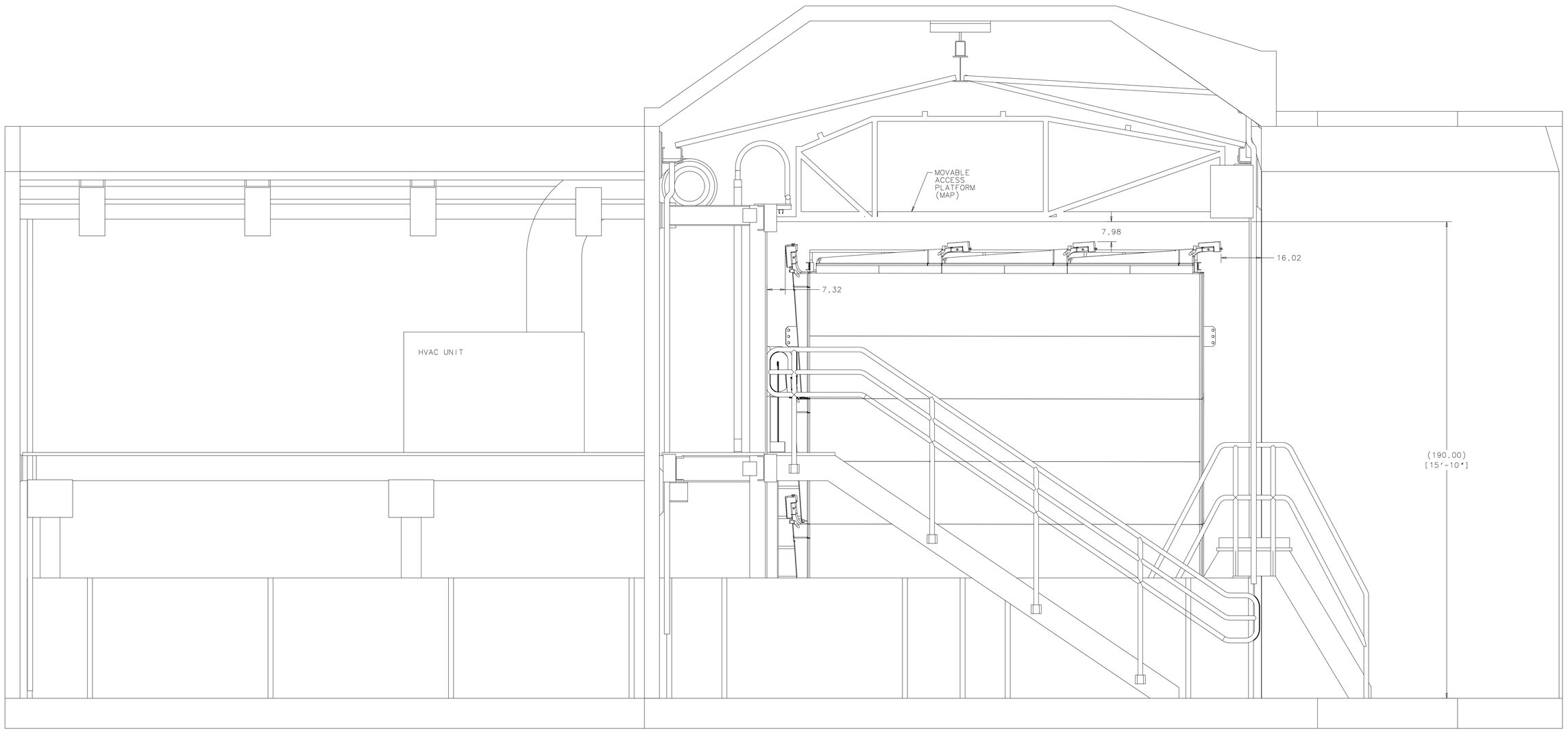
NOVA-NEAR_DETECTOR
NEAR DETECTOR INSTALLATION
ND CAVERN ASSEMBLY LAYOUT

SCALE	DRAWING NUMBER	SHEET	REV
AS NOTED	3929.330-ME-493175	2 OF 6	

CREATED WITH : Ideas12NXSeries | GROUP: PPD/MECHANICAL DEPARTMENT

Created: 13:32:02 on 30-11-12 (D-M-Y) By: friend State: 1-INITIAL

REV	DESCRIPTION	DRAWN	DATE
		APPROVED	DATE



SOUTH ELEVATION

SCALE: 3/4"=1'-0"

PRELIMINARY
30-NOV-2012

UNLESS OTHERWISE SPECIFIED			ORIGINATOR	E.VILLEGAS	30-NOV-2012
.XX	.XXX	ANGLES	DRAWN	D.FRIEND	30-NOV-2012
± .25	± ---	± ---	CHECKED		
			APPROVED		

1. BREAK ALL SHARP EDGES MAX.
2. DO NOT SCALE DRAWING.
3. DIMENSIONS BASED UPON ASME Y14.5M-1994
4. MAX. ALL MACH. SURFACES
5. DRAWING UNITS: U.S. INCH

USED ON

MATERIAL: SEE PARTS LIST ABOVE

FERMI NATIONAL ACCELERATOR LABORATORY
UNITED STATES DEPARTMENT OF ENERGY

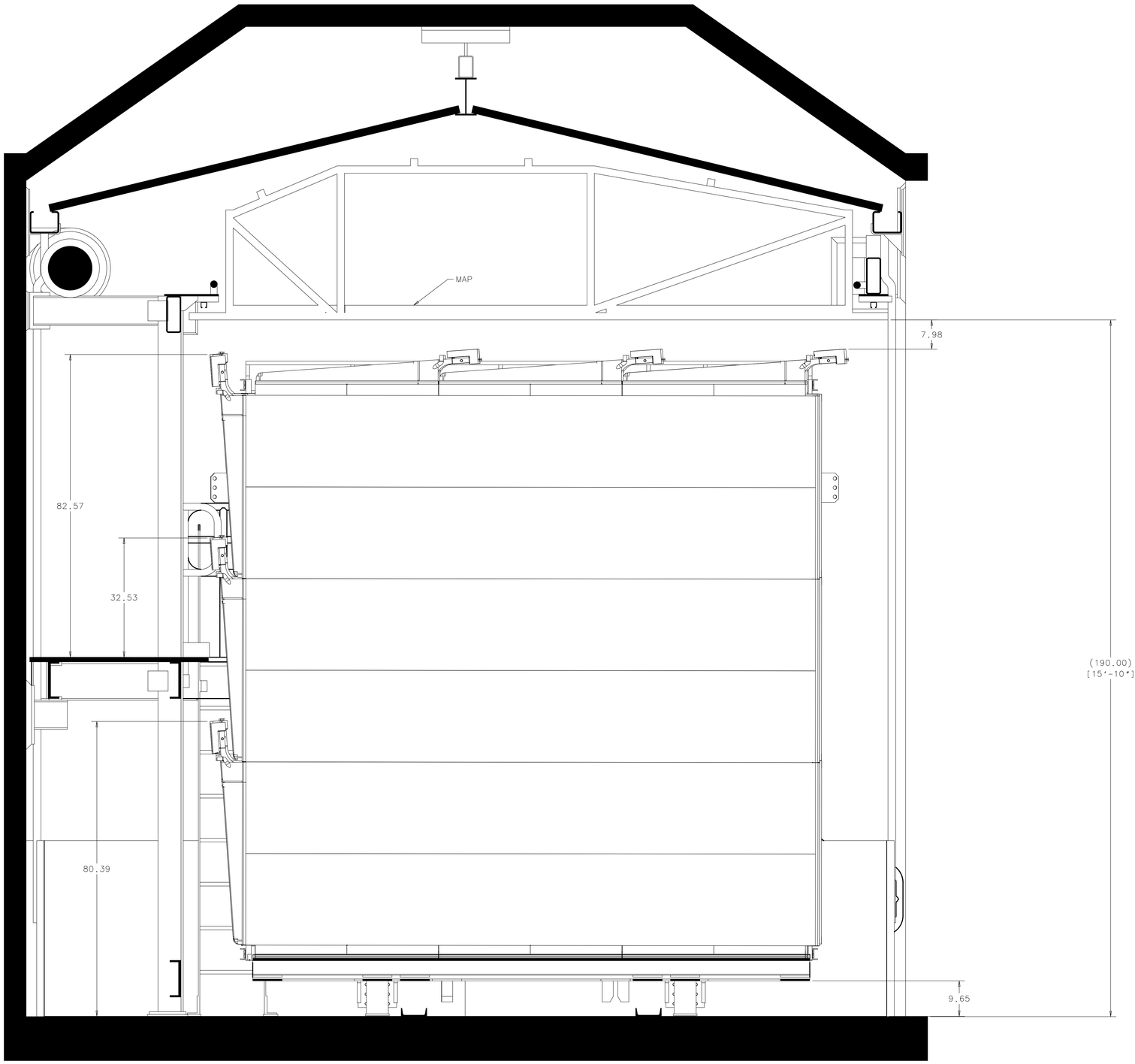
NOVA-NEAR_DETECTOR
NEAR DETECTOR INSTALLATION
ND CAVERN ASSEMBLY LAYOUT

SCALE	DRAWING NUMBER	SHEET	REV
AS NOTED	3929.330-ME-493175	3 OF 6	

CREATED WITH : Ideas12NXSeries | GROUP: PPD/MECHANICAL DEPARTMENT

Created: 13:32:12 on 30-11-12 (D-M-Y) By: friend State: 1-INITIAL

REV	DESCRIPTION	DRAWN	DATE
		APPROVED	DATE



SECTION A-A
SCALE: 1"=1'-0"

UNLESS OTHERWISE SPECIFIED			ORIGINATOR	E.VILLEGAS	30-NOV-2012
.XX	.XXX	ANGLES	DRAWN	D.FRIEND	30-NOV-2012
± .25	± ---	± ---	CHECKED		
1. BREAK ALL SHARP EDGES MAX			APPROVED		
2. DO NOT SCALE DRAWING. 3. DIMENSIONS BASED UPON ASME Y14.5M-1994 4. MAX. ALL MACH. SURFACES			USED ON		
5. DRAWING UNITS: U.S. INCH			MATERIAL	SEE PARTS LIST ABOVE	

FERMI NATIONAL ACCELERATOR LABORATORY
UNITED STATES DEPARTMENT OF ENERGY

PRELIMINARY
30-NOV-2012

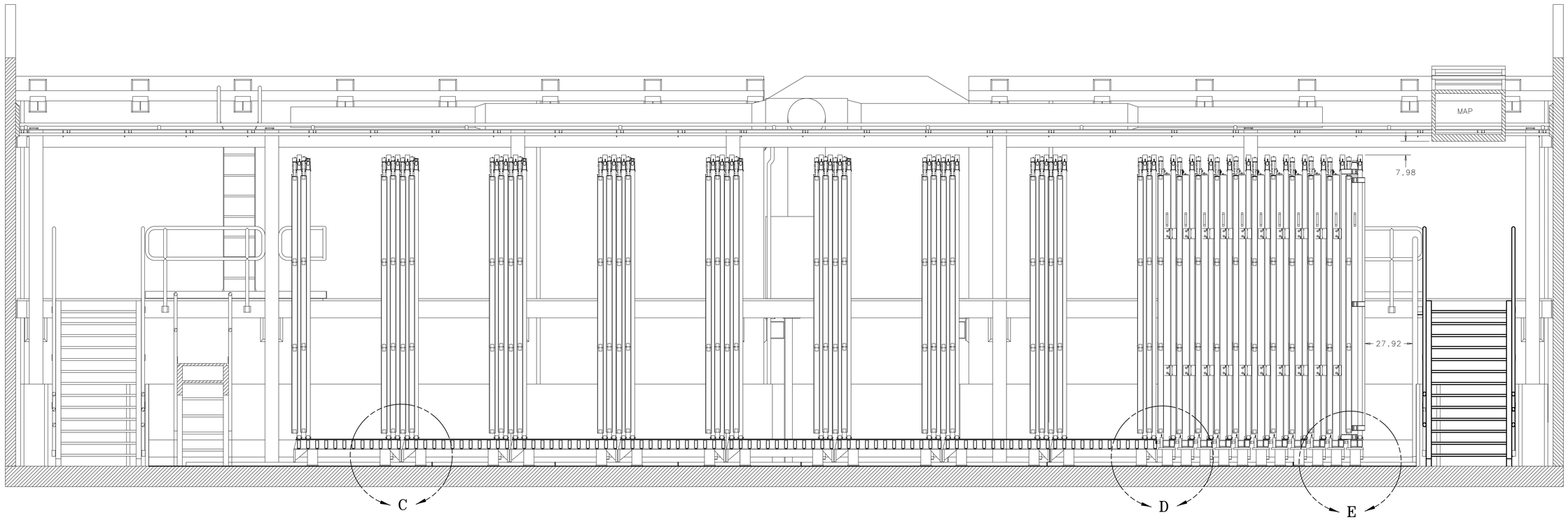
NOVA-NEAR_DETECTOR
NEAR DETECTOR INSTALLATION
ND CAVERN ASSEMBLY LAYOUT

SCALE	DRAWING NUMBER	SHEET	REV
AS NOTED	3929.330-ME-493175	4 OF 6	

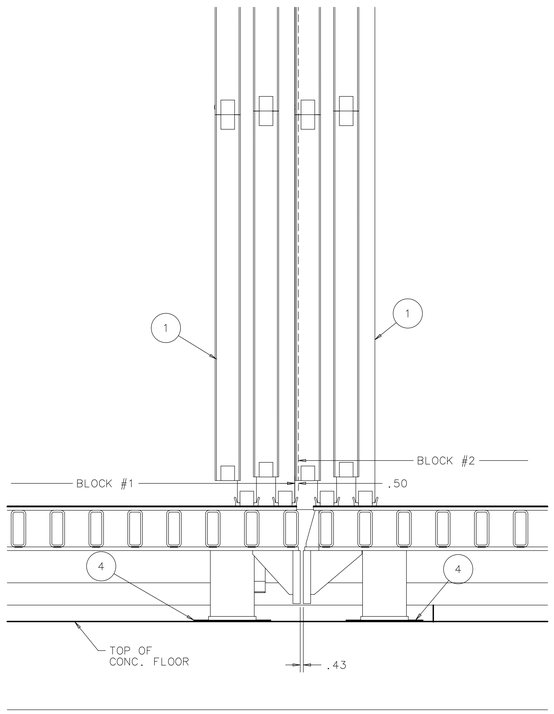
CREATED WITH : Ideas12NXSeries | GROUP: PPD/MECHANICAL DEPARTMENT

Created: 13:32:20 on 30-11-12 (D-M-Y) By: friend State: 1-INITIAL

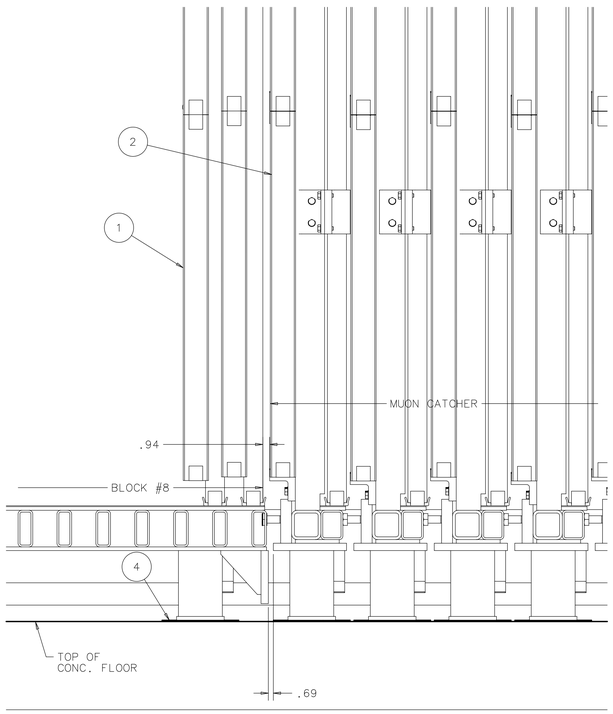
REV	DESCRIPTION	DRAWN	DATE
		APPROVED	DATE



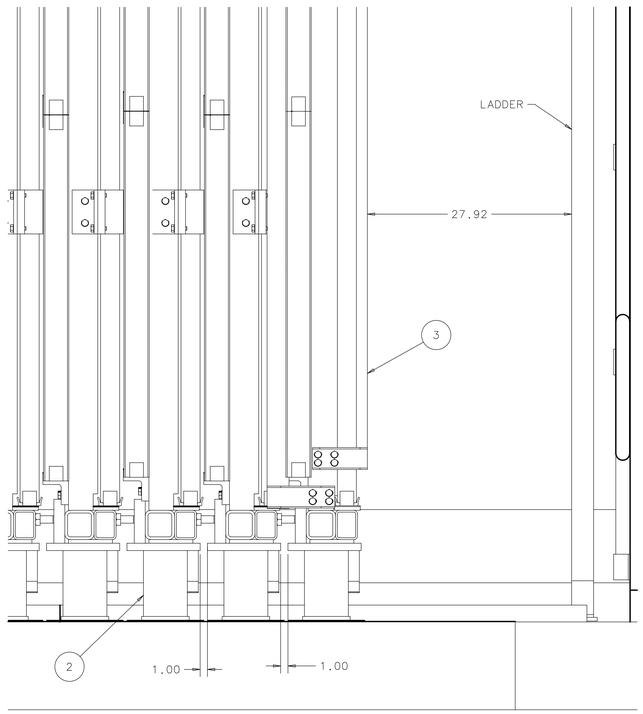
SECTION B-B
SCALE: 1/2" = 1'-0"



DETAIL C
SCALE: 1:8



DETAIL D
SCALE: 1:8



DETAIL E
SCALE: 1:8

PRELIMINARY
30-NOV-2012

UNLESS OTHERWISE SPECIFIED			ORIGINATOR	E.VILLEGAS	30-NOV-2012
.XX	.XXX	ANGLES	DRAWN	D.FRIEND	30-NOV-2012
± .25	± ---	± ---	CHECKED		
1. BREAK ALL SHARP EDGES MAX.			APPROVED		
2. DO NOT SCALE DRAWING.			USED ON		
3. DIMENSIONS BASED UPON ASME Y14.5M-1994					
4. MAX. ALL MACH. SURFACES			MATERIAL	SEE PARTS LIST ABOVE	
5. DRAWING UNITS: U.S. INCH					

FERMI NATIONAL ACCELERATOR LABORATORY
UNITED STATES DEPARTMENT OF ENERGY

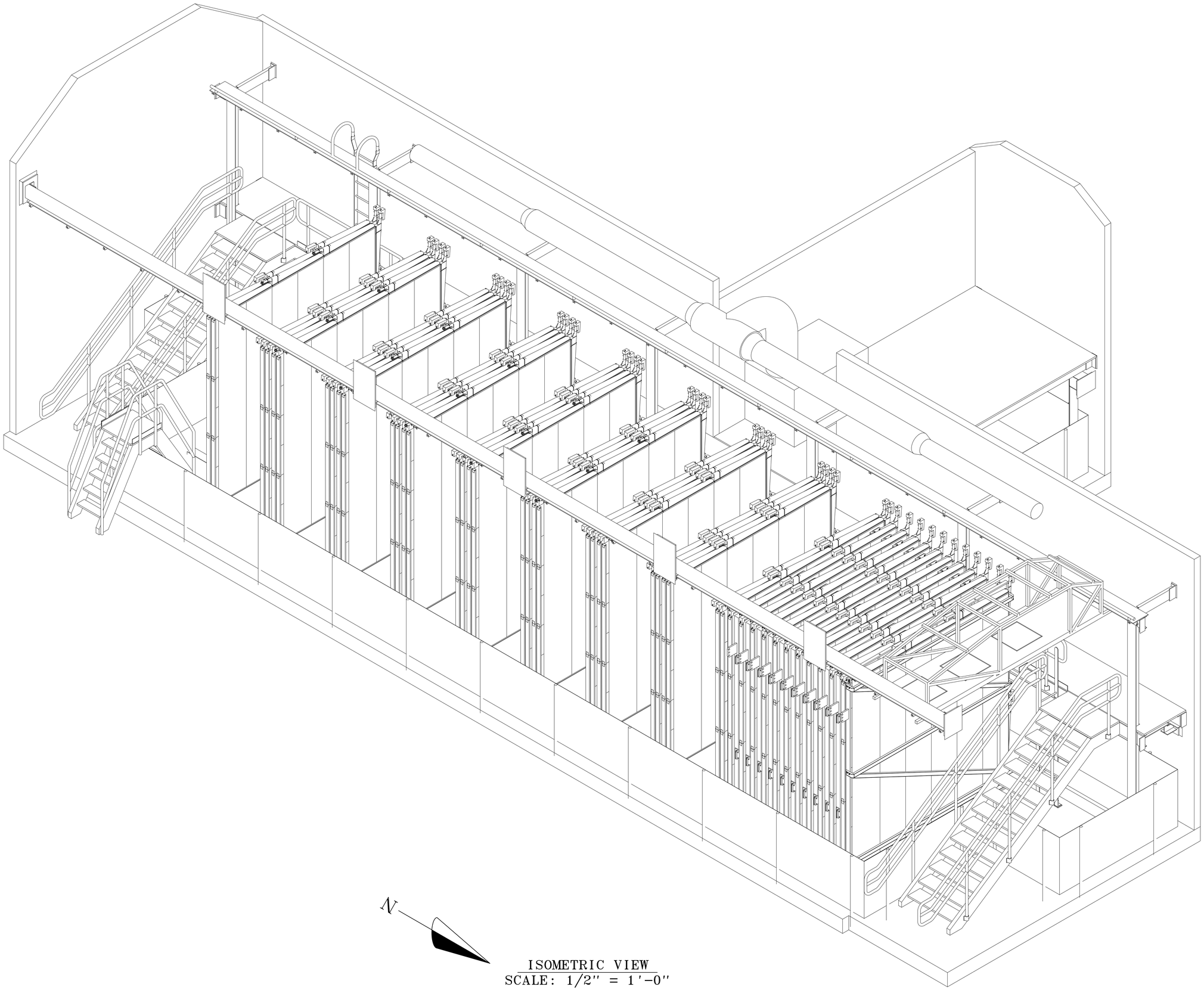
NOVA-NEAR_DETECTOR
NEAR DETECTOR INSTALLATION
ND CAVERN ASSEMBLY LAYOUT

SCALE	DRAWING NUMBER	SHEET	REV
AS NOTED	3929.330-ME-493175	5 OF 6	

CREATED WITH : Ideas12NXSeries | GROUP: PPD/MECHANICAL DEPARTMENT

Created: 13:32:27 on 30-11-12 (D-M-Y) By: friend State: 1-INITIAL

REV	DESCRIPTION	DRAWN	DATE
		APPROVED	DATE



N

ISOMETRIC VIEW
SCALE: 1/2" = 1'-0"

UNLESS OTHERWISE SPECIFIED			ORIGINATOR	E.VILLEGAS	30-NOV-2012
.XX	.XXX	ANGLES	DRAWN	D.FRIEND	30-NOV-2012
± .25	± ---	± ---	CHECKED		
1. BREAK ALL SHARP EDGES MAX.			APPROVED		
2. DO NOT SCALE DRAWING.			USED ON		
3. DIMENSIONS BASED UPON ASME Y14.5M-1994					
4. MAX. ALL MACH. SURFACES			MATERIAL	SEE PARTS LIST ABOVE	
5. DRAWING UNITS: U.S. INCH					

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PRELIMINARY
30-NOV-2012

NOVA-NEAR_DETECTOR
NEAR DETECTOR INSTALLATION
ND CAVERN ASSEMBLY LAYOUT

SCALE	DRAWING NUMBER	SHEET	REV
AS NOTED	3929.330-ME-493175	6 OF 6	

CREATED WITH : Ideas12NXSeries | GROUP: PPD/MECHANICAL DEPARTMENT