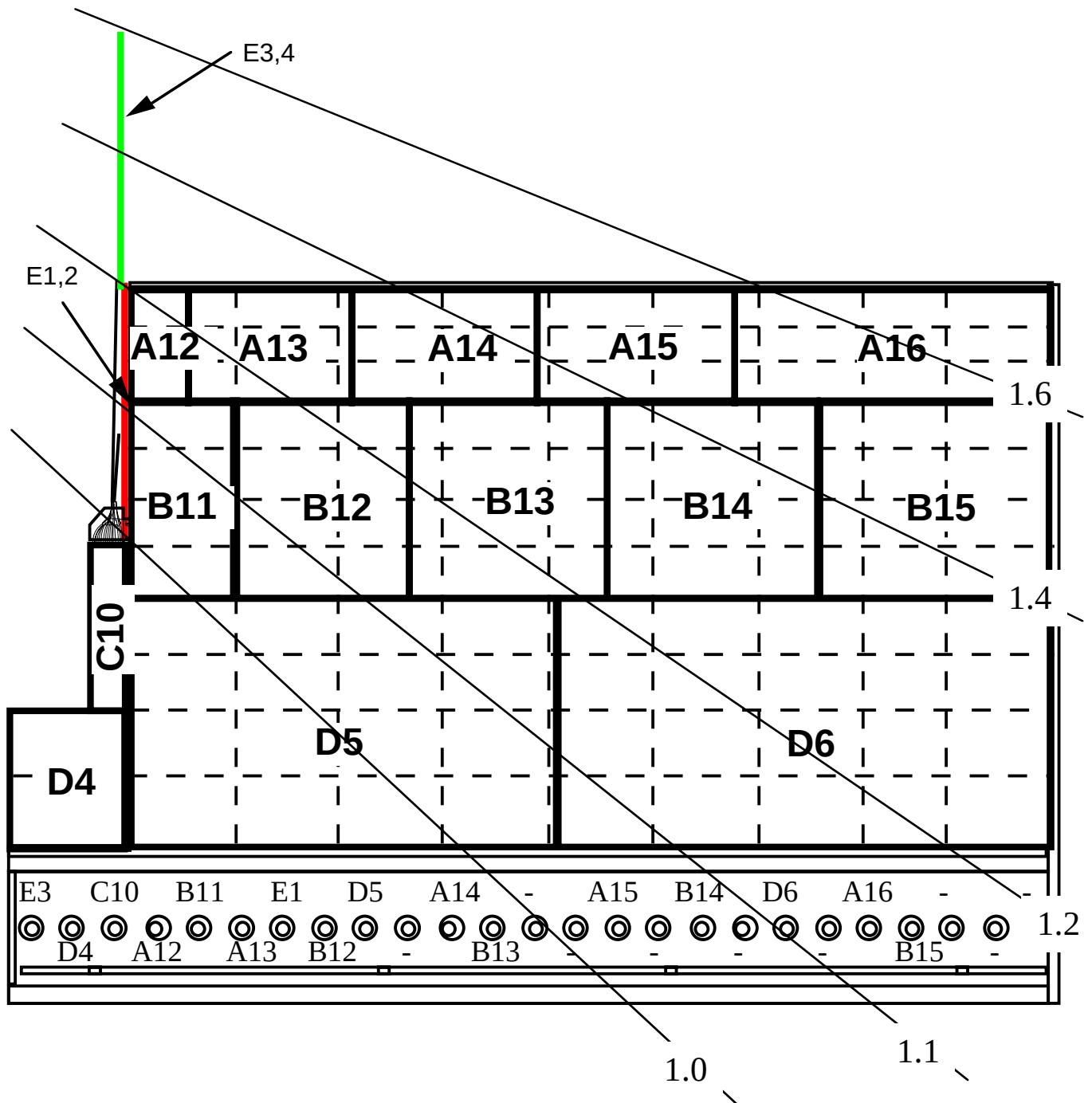


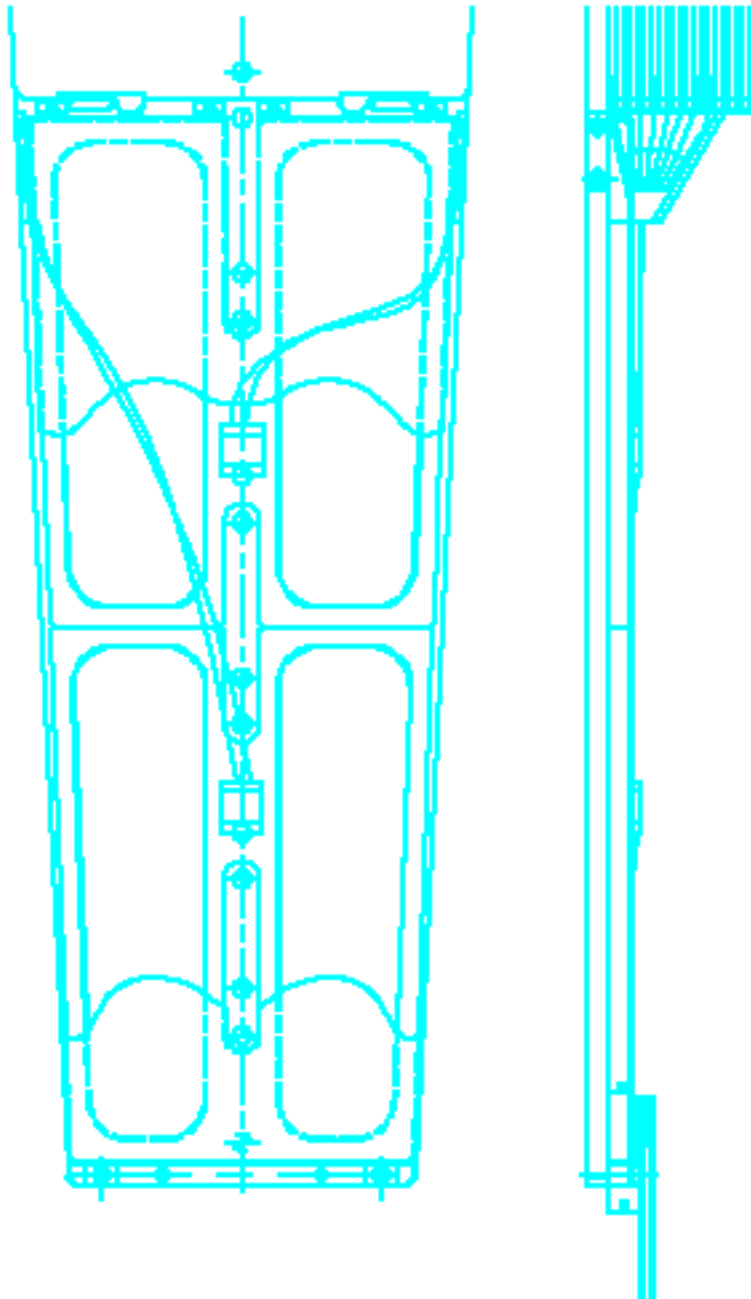
ITC Scintillator Update

1



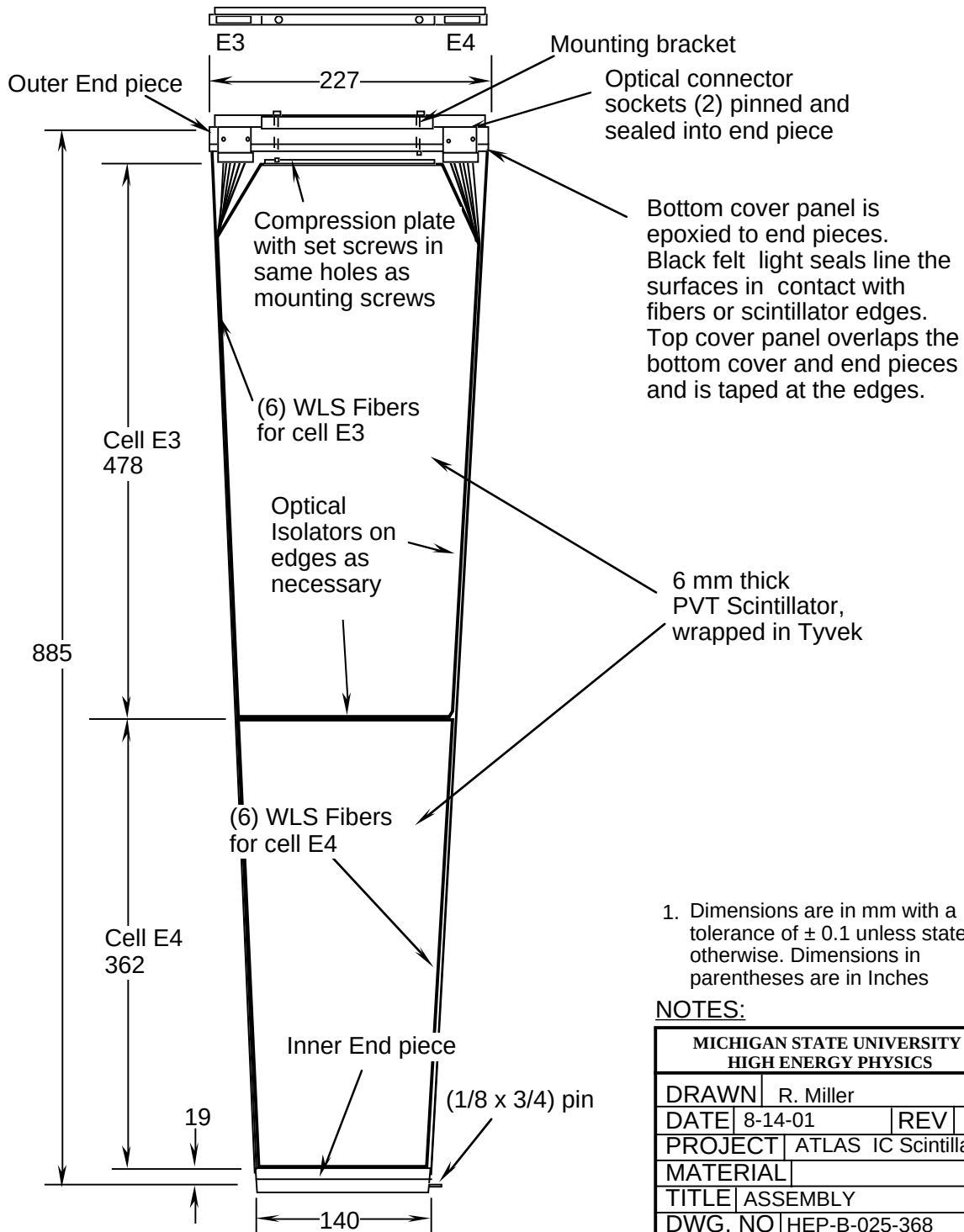
Gap Scintillator (E1, E2, C10)

2



Crack Scintillator (E3, E4)

3

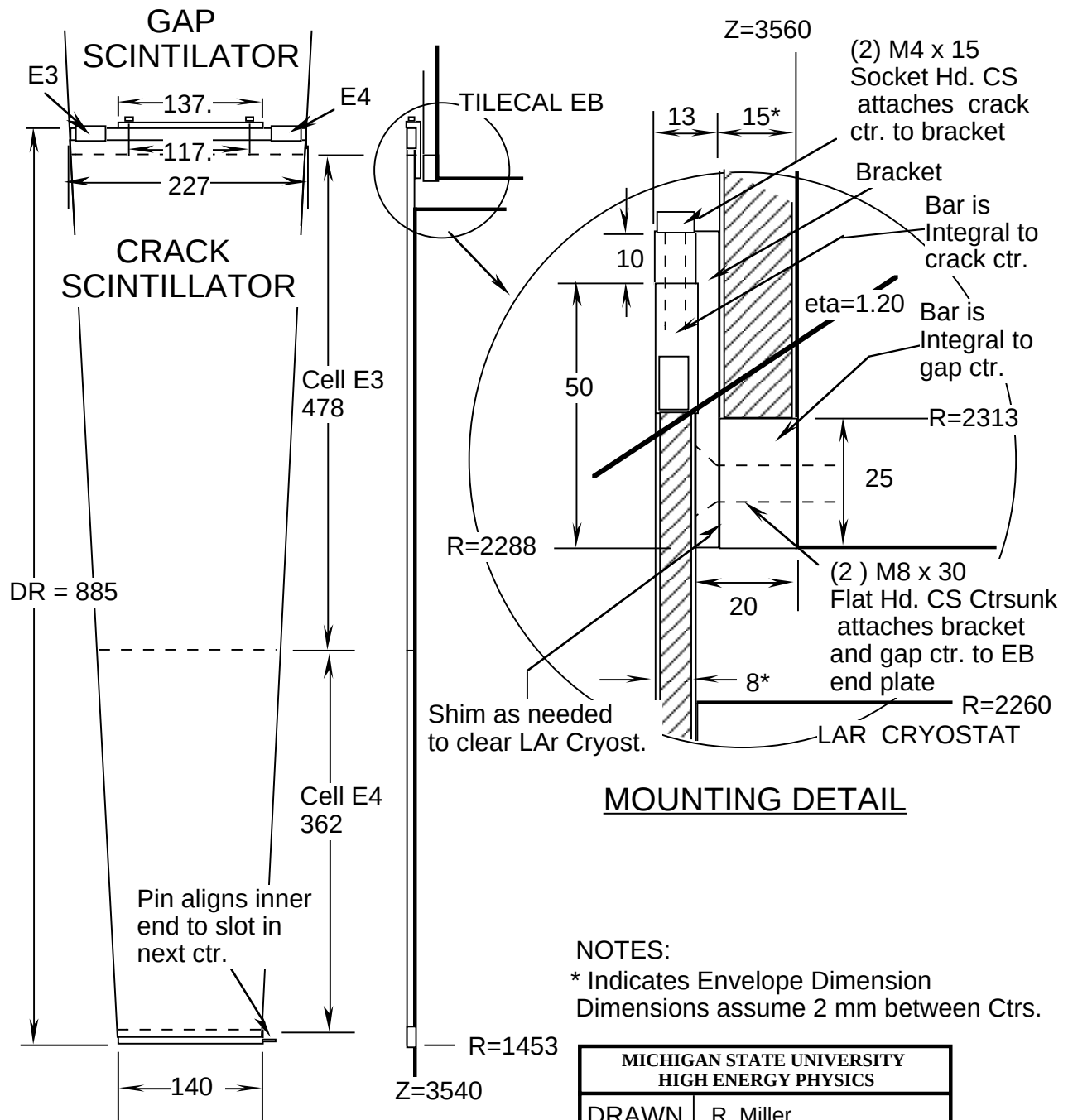


ATLAS TileCal
General Meeting
Feb.18, 2003

R. Miller
MSU

Mounting Proposal

4



MOUNTING DETAIL

NOTES:

* Indicates Envelope Dimension
Dimensions assume 2 mm between Ctrs.

MICHIGAN STATE UNIVERSITY HIGH ENERGY PHYSICS			
DRAWN	R. Miller		
DATE	9-21-01	REV	E
PROJECT	ATLAS ITC Scintillator		
MATERIAL			
TITLE	MOUNTING		
DWG. NO	HEP-B-025-371		
SCALE	1:5		

ATLAS TileCal
General Meeting
Feb.18, 2003

R. Miller
MSU

Summary of Status

- **Installation of optical fiber assemblies into EB modules - completed**
 - Spares will be shipped to CERN with remaining modules
- **Dimensions, Envelope & Mounting Scheme - approved by TC team**
- **Prototypes of scintillator & optical components assembled & tested**
- **Preparing for Production**
 - PO's issued for Scintillator (Bicron BC408) & WLS fiber (.93 mm dia. Kuraray Y11) for gap modules
 - PO's issued for mechanical components of crack modules
 - Mechanical models have been made to check fit and develop light sealing plan

Production Plans/Schedule

6

- **Gap scintillator will be cut to shape and grooves milled at Fermilab / June '03**
- **WLS fiber to be mirrored at Fermilab then glued and polished into connectors at MSU / June '03**
- **Gap modules will be assembled and tested at UTA / June '04**
- **Mechanical components of crack modules will be assembled at MSU / Jan. '04**
- **Money for purchase of scintillator & WLS fiber for the crack modules is pending approval by US ATLAS managers**

Other Issues

- **Testing & Calibration**
 - Use cosmic muons at UTA/MSU to measure relative performance and check light tightness
 - Calibration & monitor with Cs source (gap modules) and muons (gap & crack) after installation in detector
- **Special Modules**
 - Special gap scintillators will be made for EB modules that are missing C10 cell
 - Special mounting plates will be made for modules with modified inner R - allows us to use standard scintillators on these modules
- **Light Covers**
 - Plastic film to cover fiber cables, connectors - detailed design in progress