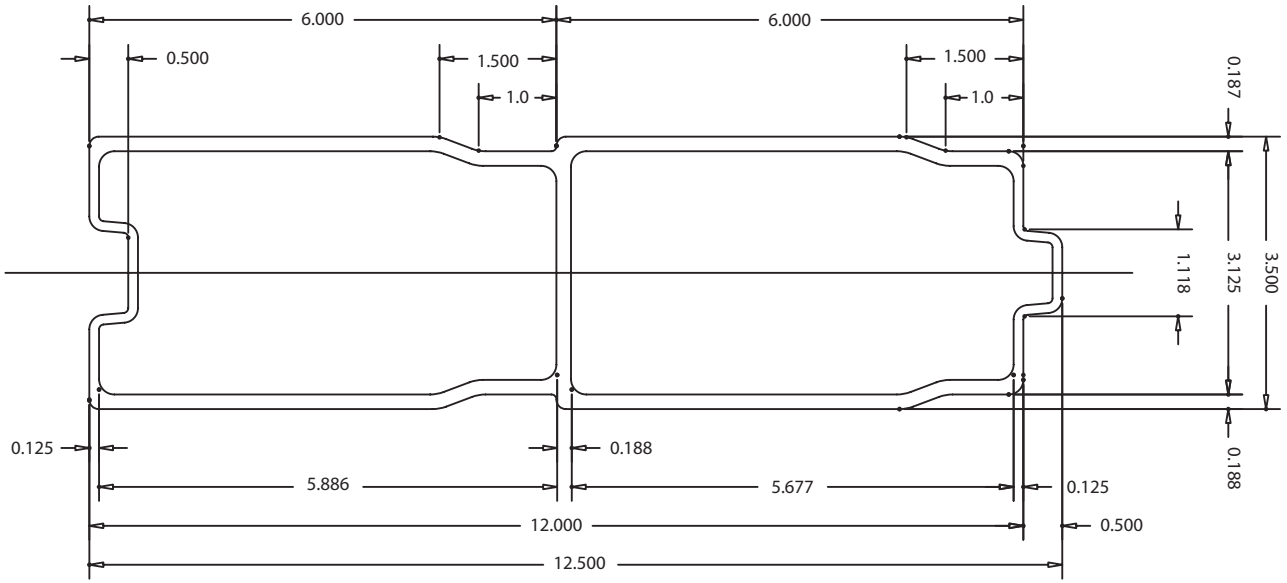


SOUND WALL PROFILE

AREA = 6.013 IN^2
ixx = 12.872 IN^4
Sxx = 7.355 IN^3
WT = 4.5 LB/FT

CONFIDENTIAL

Fibergrate.
Composite Structures
An RPM Company

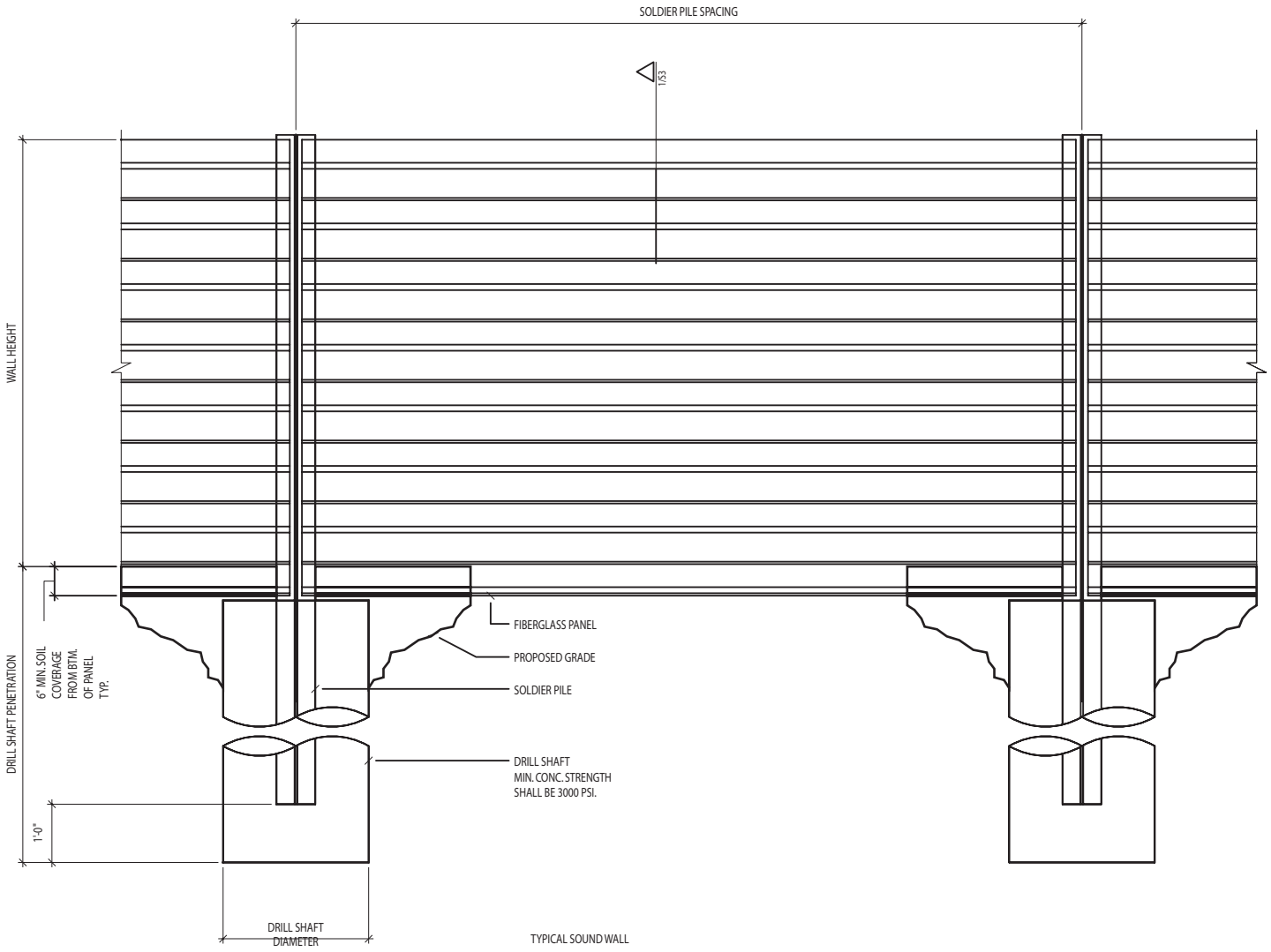
REV	DESCRIPTION	DATE	BY
0	FOR REVIEW/QUOTATION	08-22-05	EAL
0	CHANGED MANDREL RADII	10-18-05	EAL

SOUND WALL PANEL

SCALE	DATE:	DRAWN:
N.T.S.	08-22-05	EAL

DRAWING NUMBER: B-01307

SHEET: 1 OF 1



TYPICAL SOUND WALL

1 ELEVATION

NOTES:

1. Site specific designs must be performed by a registered professional engineer who verifies wind load requirements and actual soil conditions.
2. Wind loads are per Guide Specifications for Structural Design of Sound Barriers Copyright 1989 and Interim Revisions.
3. Foundation design based on Brom's Method as described in Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals 4th Edition Copyright 2001 with Interim Revisions.
4. Structural steel member design per Standard Specifications for Highway Bridges - Seventeenth Edition.
5. Final deflections must be verified based on the criteria of the local governing body.

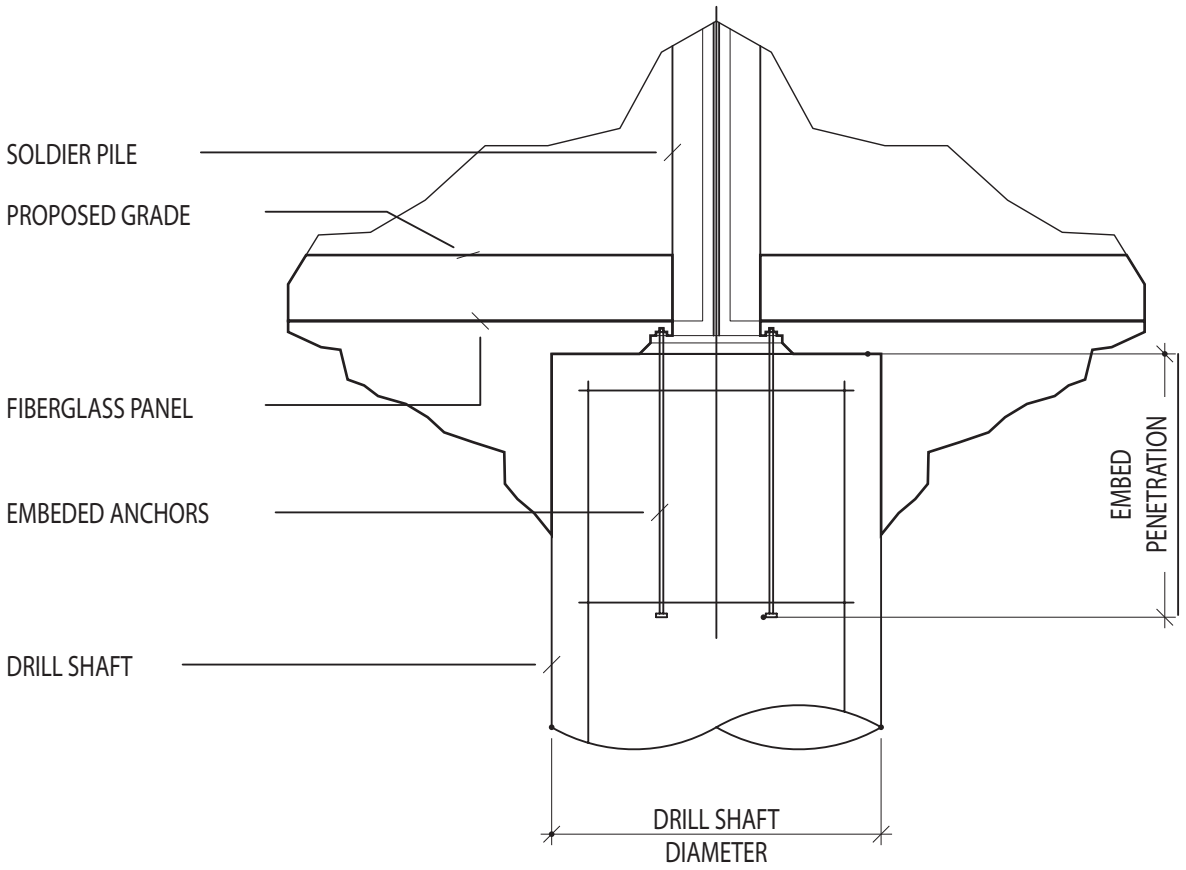
FRANK W. NEAL & ASSOC, INC.
Consulting Engineers
SINCE 1982
1015 W. Broadway,
Fort Worth, Texas 76104
(817) 332-1944
Fax (817) 336-8620
fwna-eng.com
* Registered Brand In Tarrant County

SOLDIER PILE DESIGN DRAWINGS FOR:

FIBERGRATE
SOUND WALL

REVISIONS	DATE: 09-08-06
△	SHEET #
△	S1
△	

FWNA PROJECT # 205622



ALTERNATE SOLDIER PILE CONFIGURATION

1 ELEVATION

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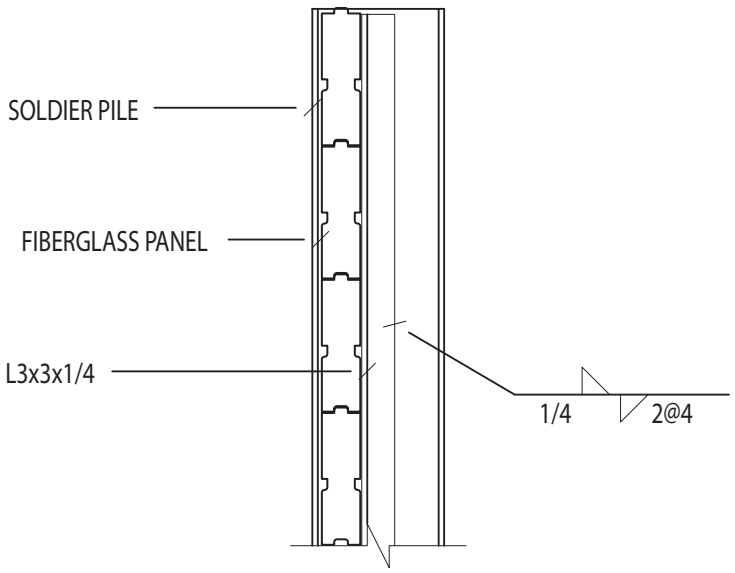
SOLDIER PILE DESIGN DRAWINGS FOR:

FIBERGRATE
SOUND WALL

REVISIONS	DATE: 09-08-06
△	SHEET #
△	S2
△	

FWNA PROJECT # 205622



TYPICAL SOUND WALL-WELDED ANGLE

1 SECTION

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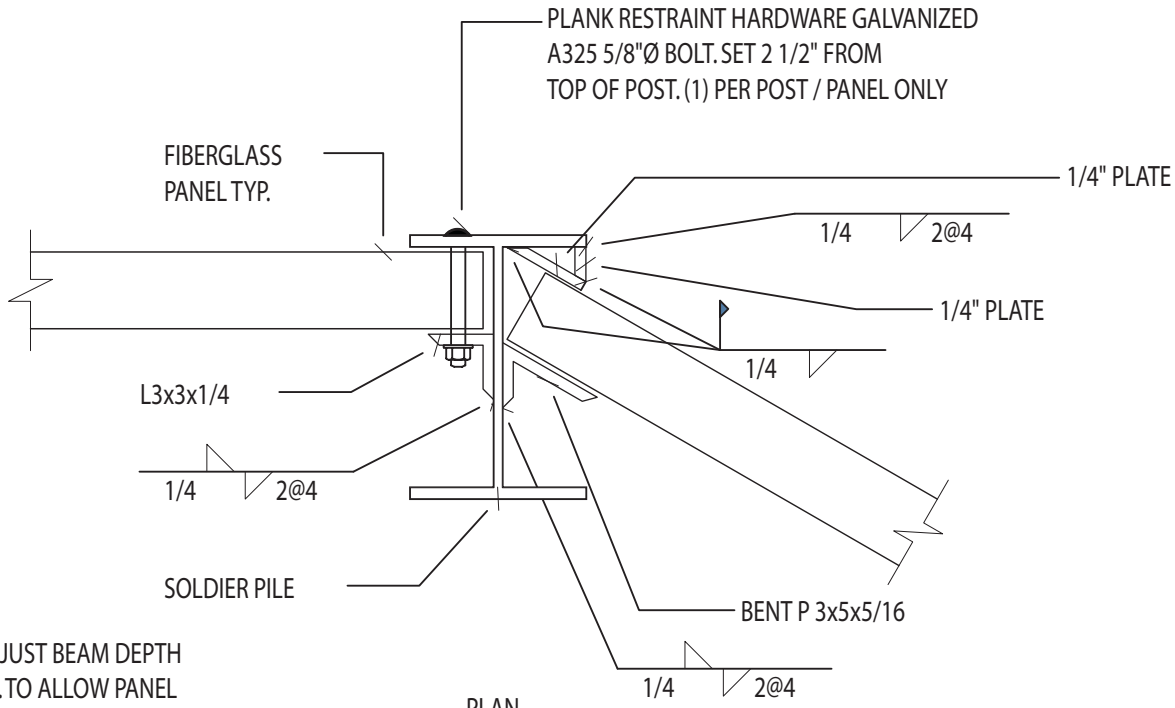
SOLDIER PILE DESIGN DRAWINGS FOR:

FIBERGRATE
SOUND WALL

REVISIONS	DATE: 09-08-06
△	SHEET #
△	S3
△	

FWNA PROJECT # 205622

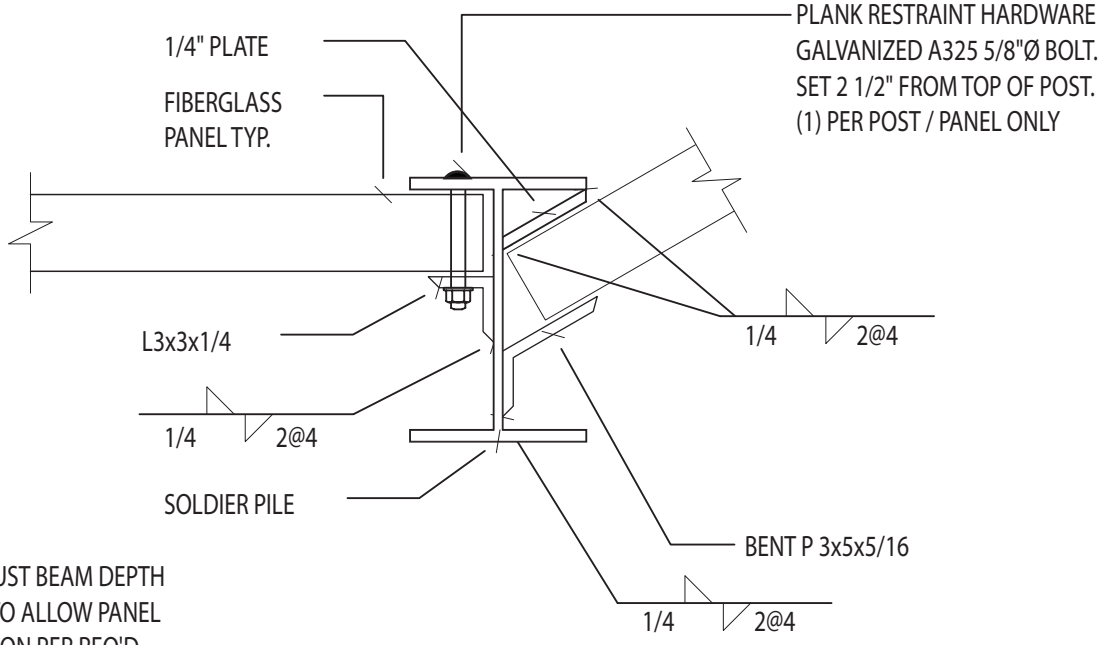


NOTE: ADJUST BEAM DEPTH AS REQ'D. TO ALLOW PANEL INSTALLATION PER REQ'D. ANGLE DEVIATION.

PLAN

TYPICAL CORNER CONDITION

1 DETAIL



NOTE: ADJUST BEAM DEPTH AS REQ'D. TO ALLOW PANEL INSTALLATION PER REQ'D. ANGLE DEVIATION.

PLAN

TYPICAL CORNER CONDITION

2 DETAIL

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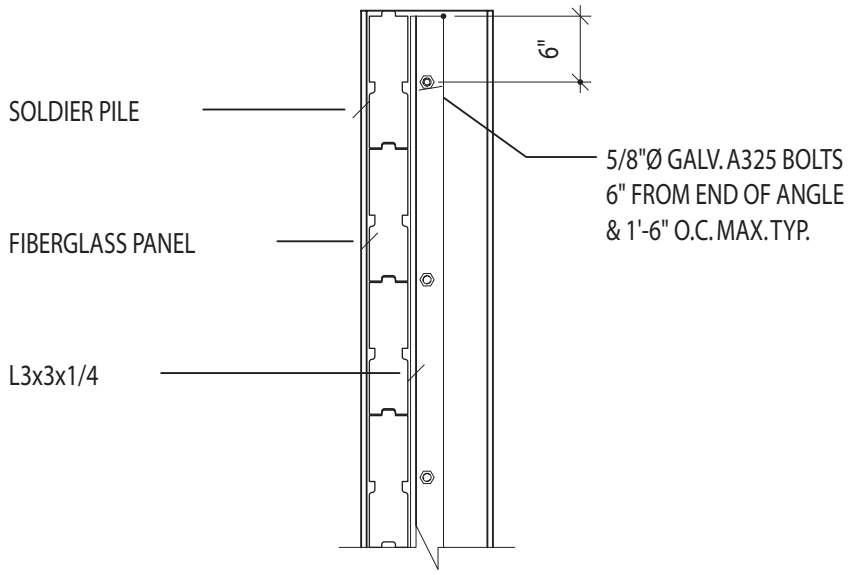
SOLDIER PILE DESIGN DRAWINGS FOR:

FIBERGRATE
SOUND WALL

REVISIONS	DATE: 09-08-06
△	SHEET #
△	S4
△	

FWNA PROJECT # 205622



TYPICAL SOUND WALL-BOLTED ANGLE

1 SECTION

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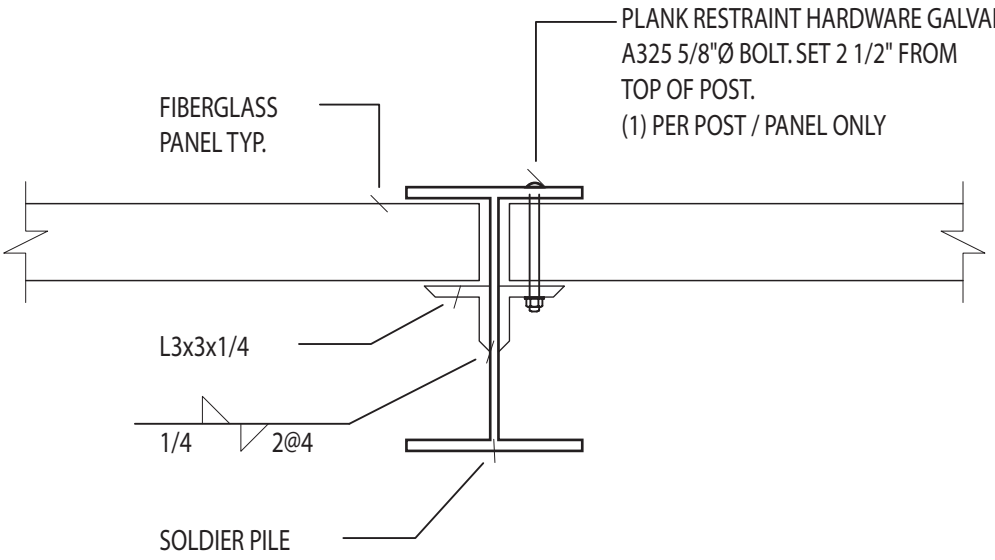
SOLDIER PILE DESIGN DRAWINGS FOR:

FIBERGRATE
SOUND WALL

REVISIONS	DATE: 09-08-06
△	SHEET #
△	S5
△	

FWNA PROJECT # 205622

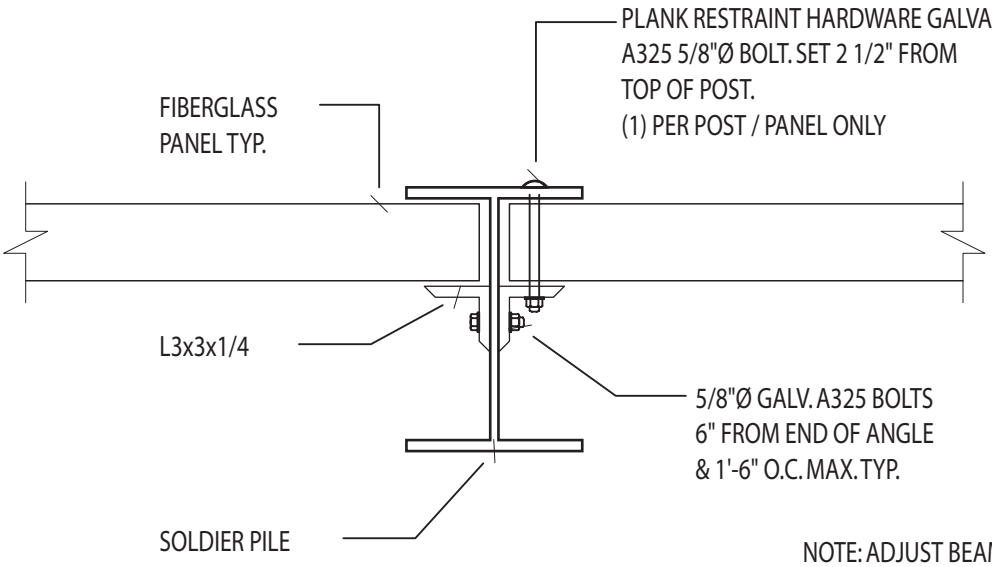


NOTE: ADJUST BEAM DEPTH AS REQ'D. TO ALLOW PANEL INSTALLATION PER REQ'D. ANGLE DEVIATION.

PLAN

TYPICAL CONDITION- WELDED

1 DETAIL



PLAN

TYPICAL CONDITION-BOLTED

2 DETAIL

NOTE: ADJUST BEAM DEPTH AS REQ'D. TO ALLOW PANEL INSTALLATION PER REQ'D. ANGLE DEVIATION.

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SOLDIER PILE DESIGN DRAWINGS FOR:

FIBERGRATE
SOUND WALL

REVISIONS	DATE: 09-08-06
△	SHEET #
△	S6
△	

FWNA PROJECT # 205622