

88-09-06 14:52 ART 2154325772

F & M ASSOCIATES, INC.

Consulting Civil Engineers

F. I
STRUCTURAL
SANITARY
INDUSTRIAL
SUBDIVISIONS

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DATE: 8-6-88

1132 Hamilton Street
Allentown, Penna. 18101
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TELECOPIER COVER MEMO

FROM

FAX NO. 215-432-5772

Ricoh Fax 07

TO

Fax No. (215) 826-6568

RIEBE INDUSTRIAL SERVICES, INC.

Attn. Jeff Hill

Gentlemen

This Transmission consists of

3 pages including Cover Memo

Footings & Base Detail for
E. Stroudsburg Scoreboard.

NOTE: Please call our office (215-432-4531) if you do not receive all pages or copy quality is not satisfactory.

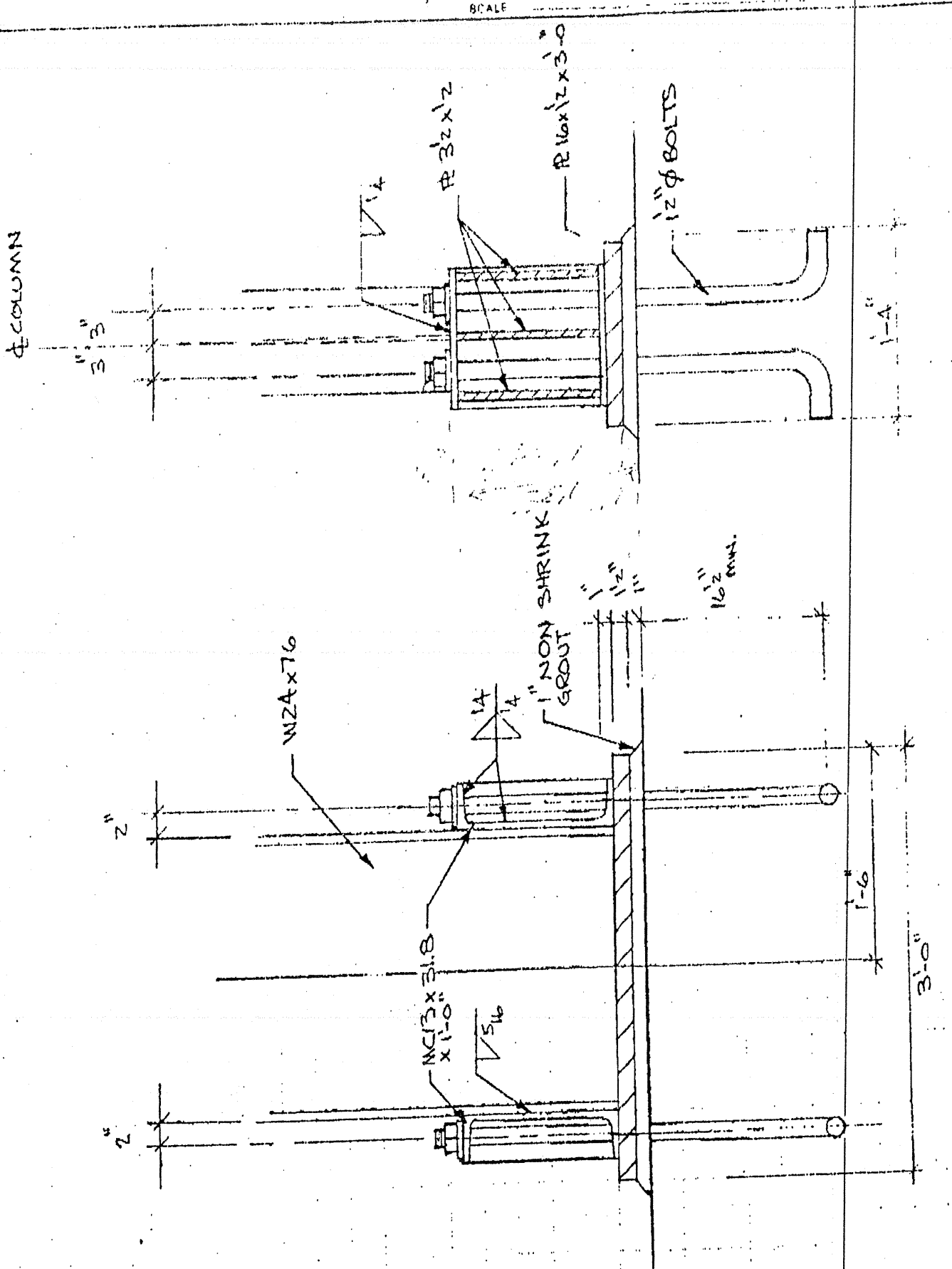
As requested

For final approval

For comments

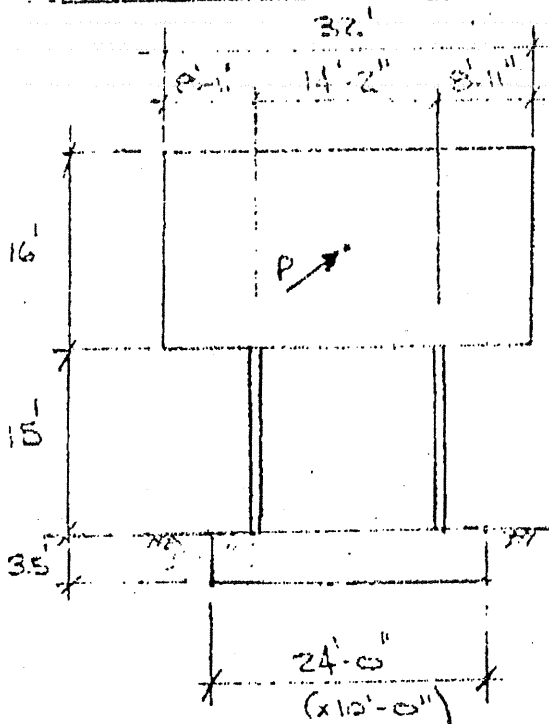
F & M ASSOCIATES, INC.
1132 Hamilton St. Ste 302
ALLENTOWN, PENNSYLVANIA 18101
(215) 432-4551

F. E.
E. STROUDSBURG UNIVERSITY
SHEET NO. 5 OF 5
CALC. BY CRT DATE 8-16-88
CHECKED BY KFR DATE 8-18-88
SCALE



F & M ASSOCIATES, INC.
 1132 Hamilton St Suite 302
 ALLENTOWN, PENNSYLVANIA 18101
 (215) 432-4331

JOB E. STROUDSBURG UNIVERSITY
 SHEET NO. 1 OF 5
 CALCULATED BY CRT DATE 8-16-88
 CHECKED BY KPR DATE 8-18-88
 SCALE SCOREBOARD SUPPORT



• 30^{PSF} WIND LOAD

$$P = \frac{30 \times 32 \times 16}{1000} = 15.36 \text{ K}$$

• FOOTING DESIGN

$$M_{OT} = 26.5 \times 15.36 = 407 \text{ K'}$$

$$W_{SIGN} = 4300 + 1000 = 5300 \text{ \#}$$

$$M_R = [4(16)3.5(150) + 53]5 = 656.5 \text{ K'}$$

$$F.S. = \frac{656.5}{407} = 1.62 > 1.5 \text{ O.K.}$$

$$\bar{x} = \frac{656.5 - 407}{(126 + 5.3)} = 1.90 \text{ FT. (OUTSIDE MIDDLE THIRD)}$$

$$B.P. = \frac{131.3(2)}{(24)3(1.90)} = 1.92 \text{ KSF}$$

$$d = 37''$$

$$M_1 = .57 \left(\frac{4}{2}\right)^2 + 1.35 \left(\frac{4}{6}\right)^2 = 11.76 \text{ K'}$$

$$M_2 = 3.5(150) \left(\frac{4}{2}\right)^2 = 4.2 \text{ K'}$$

$$A_{SREQ'D} = \frac{11.76}{1.76 \times 37} = .18 \text{ in}^2/\text{FL}$$

$$A_{Smin} = .0018(42)12 = .907 \text{ in}^2/\text{FL}$$

USE #6 @ 12" E.W. T&B

$$V_b = [1.61(.917) + .31(.917/2)] - .917(3.5)15$$

$$V_b = 2.6 \text{ PSI } 37 \times 12 \text{ O.K.}$$

