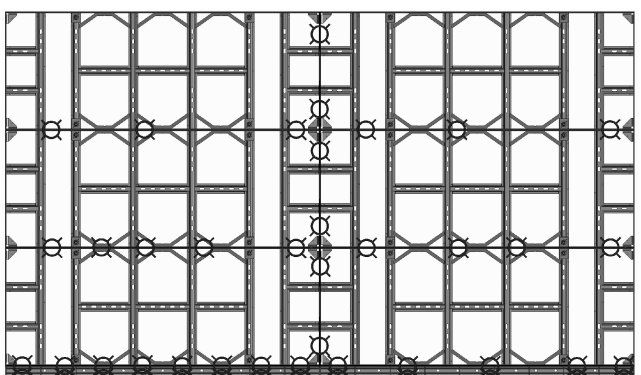
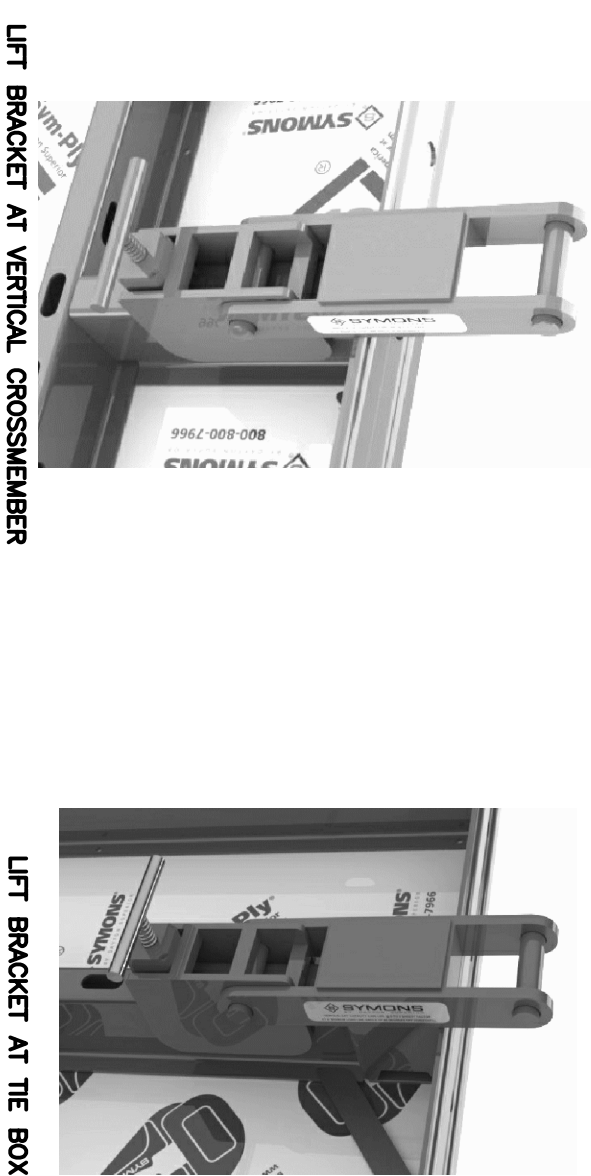


OUTER CORNER CLAMPING REQUIREMENTS

Caution: Additional clamps are required at corners! Concrete pressure forces at corners require the installation of additional clamps at and near the formed corners. Please refer to the Sym-Ply Application Guide for stack configurations and clamp placement.

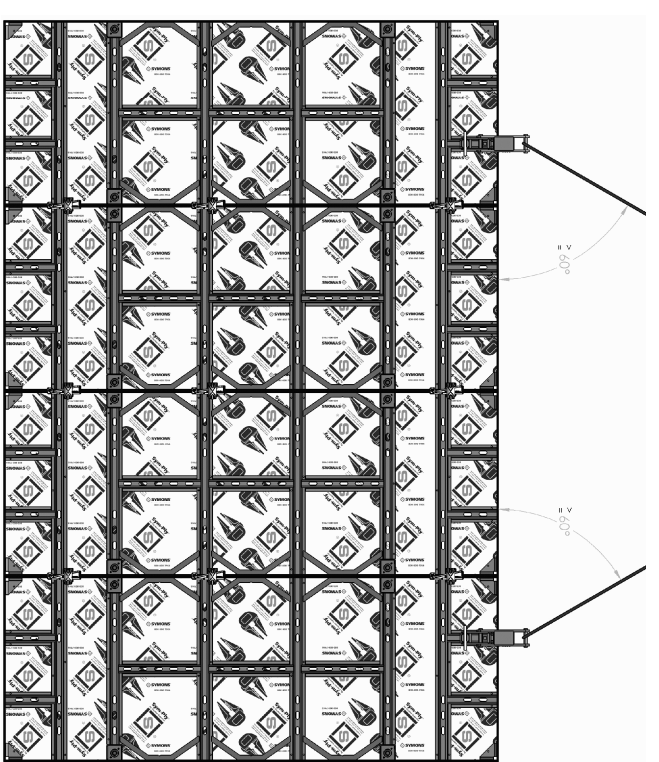


SYM-PLY LIFT BRACKETS DETAILS

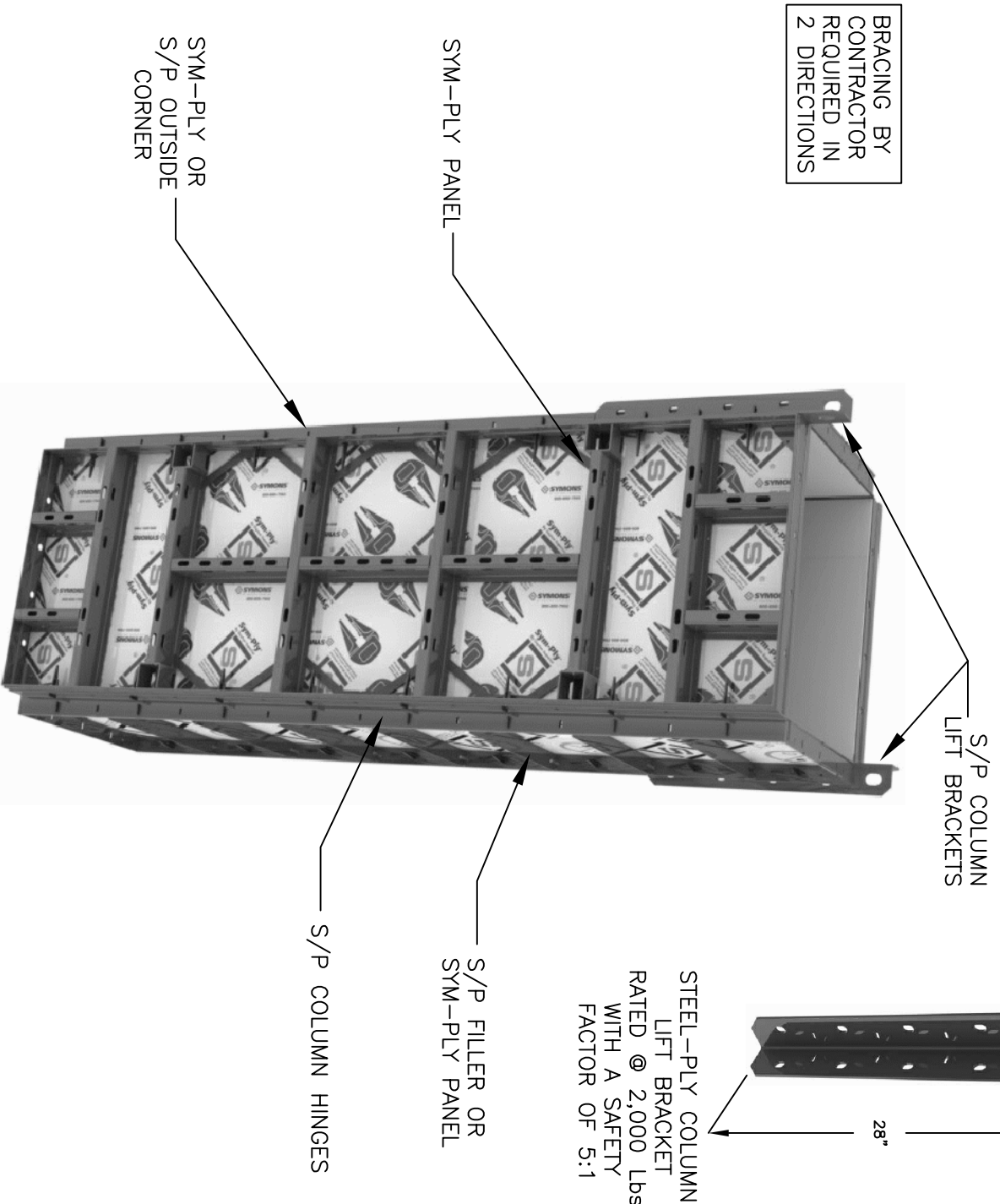


SYM-PLY LIFT BRACKET
SAFE WORKING LOAD = 2,000 lbs.
@ 5:1 SAFETY FACTOR
(MINIMUM 60" LIFT FROM HORIZONTAL)
LIFTING AND BRACKET PLACEMENT OF GANG FORM

CAUTION
THE ANGLE FOR THE ATTACHED LIFTING LINES MUST BE GREATER THAN 45 DEGREES. WHEN MORE THAN TWO BRACKETS ARE INSTALLED, A SPREADER BEAM MUST BE USED.



TYPICAL COLUMN WITH CORNER

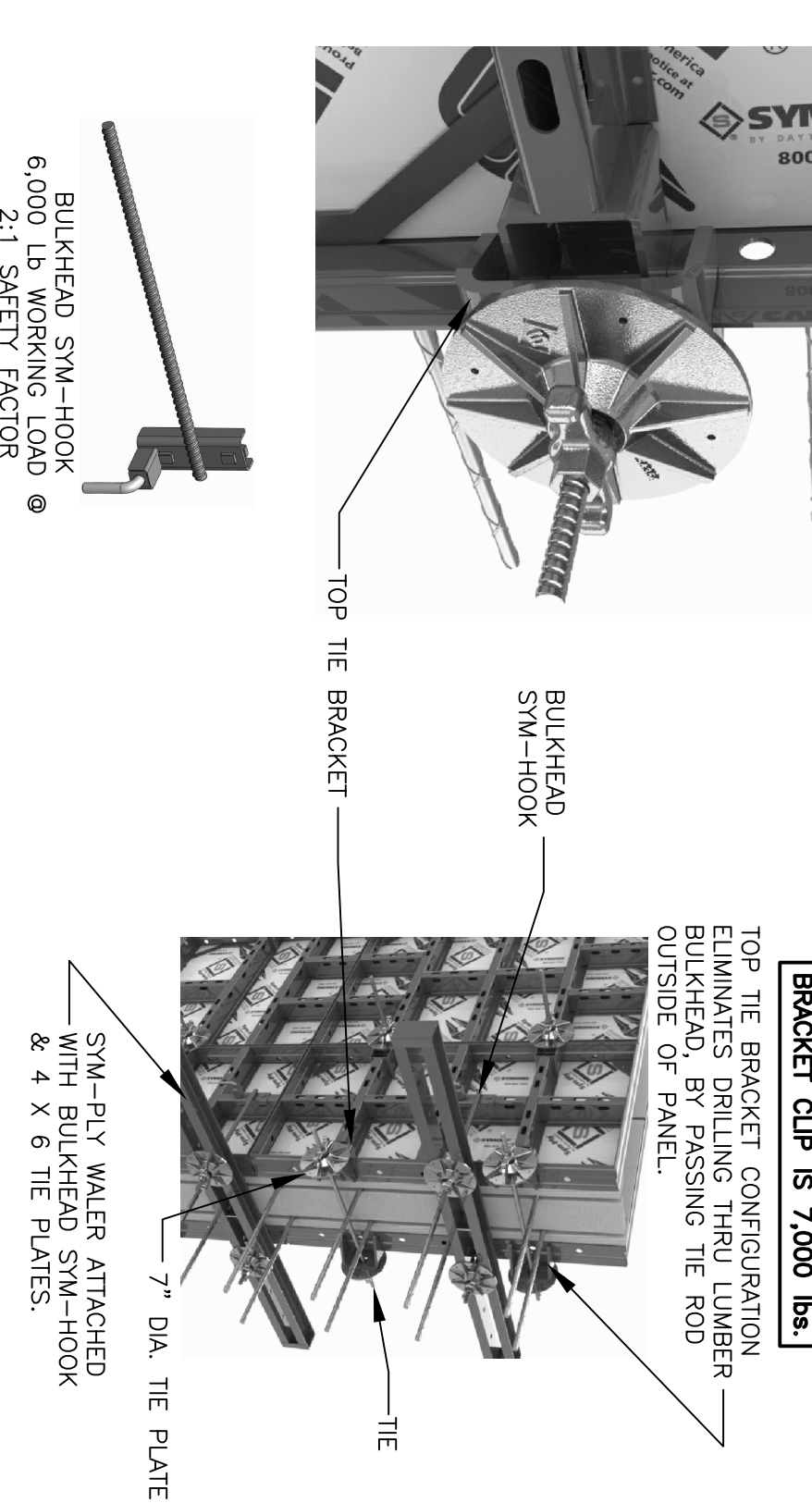


BRACING BY CONTRACTOR REQUIRED IN 2 DIRECTIONS

STEEL-PLY COLUMN RATED @ 2,000 LBS. WITH A SAFETY FACTOR OF 5:1

Sym-Ply® Safety Applications

ATTACHING WALERS ON BULKHEADS



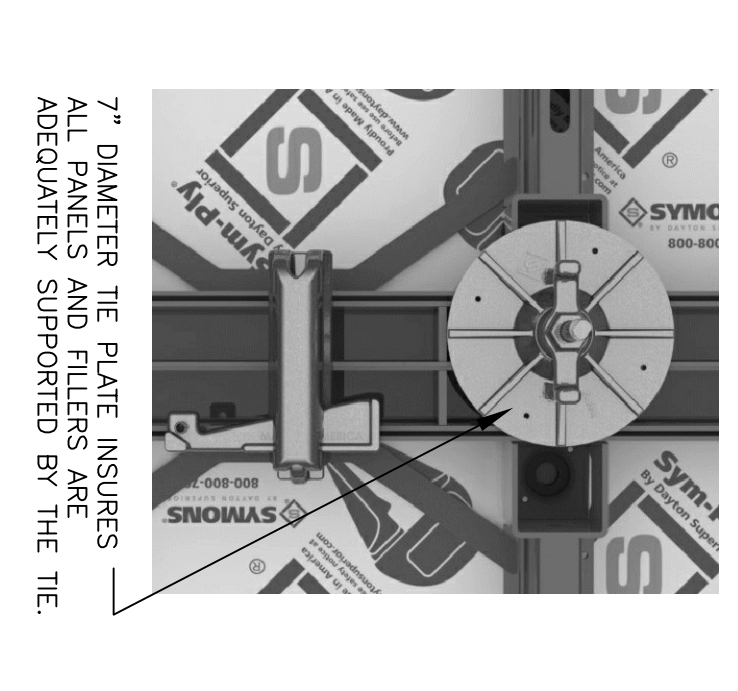
BULKHEAD SYM-HOOK 6,000 LB WORKING LOAD @ 2:1 SAFETY FACTOR

NOTE - SAFE WORKING LOAD OF THE TOP TIE BRACKET CLIP IS 7,000 lbs.

TOP TIE BRACKET CONFIGURATION ELIMINATES DRILLING THRU LUMBER OUTSIDE OF PANEL.

SYM-PLY WALTER ATTACHED WITH BULKHEAD SYM-HOOK & 4" X 6" THE PLATES.

FRAME THE PLATE USED AT DOUBLE 2" INCH FILLER



7" DIAMETER TIE PLATE INSURES ALL PANELS AND FILLERS ARE ADEQUATELY SUPPORTED BY THE TIE.

TOP TIE BRACKET DETAILS

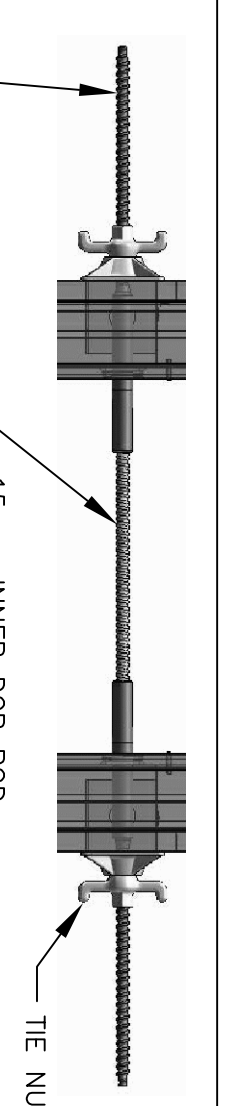


TOP TIE BRACKET
SAFE WORKING LOAD = 7,000 lbs. @ 2:1 SAFETY FACTOR

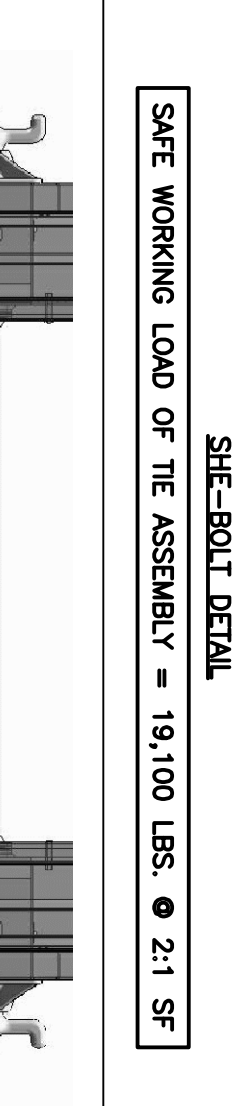
TIES AND TIE CAPACITIES



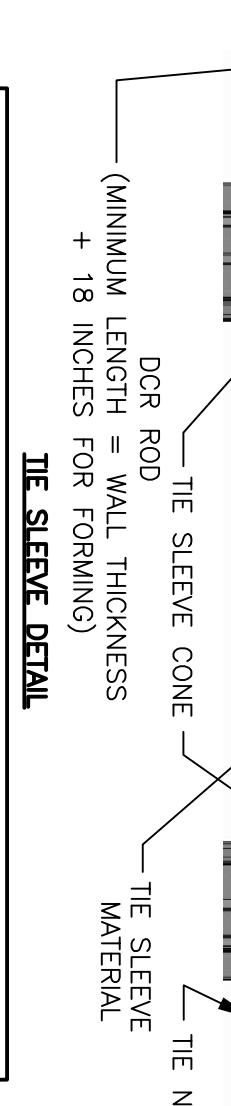
15mm TAPER TIE (TAPER FROM 3/4" TO 1")
SAFE WORKING LOAD OF THE ASSEMBLY = 18,750 LBS. @ 2:1 SF



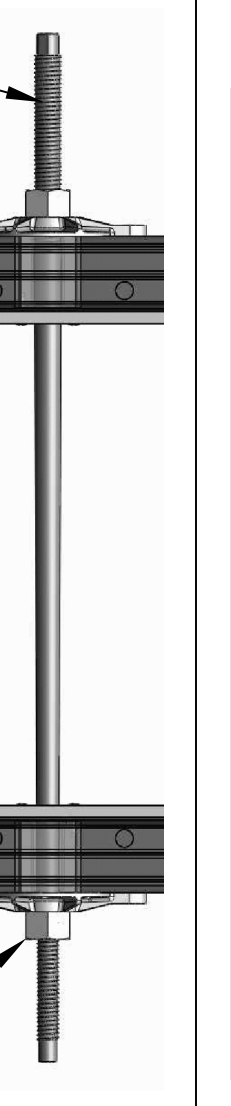
15mm DCR SHE-BOLT
SAFE WORKING LOAD OF THE ASSEMBLY = 19,100 LBS. @ 2:1 SF



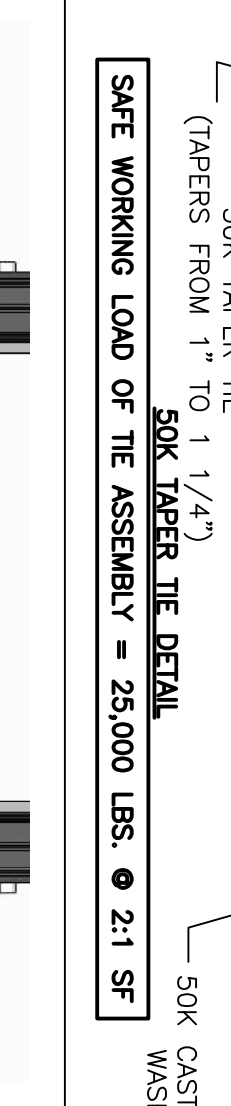
DCR ROD (MINIMUM LENGTH = WALL THICKNESS + 18 INCHES FOR FORMING)
SAFE WORKING LOAD OF 15mm DCR ROD = 19,100 LBS. @ 2:1 SF
SAFE WORKING LOAD OF 20mm DCR ROD = 30,900 LBS. @ 2:1 SF



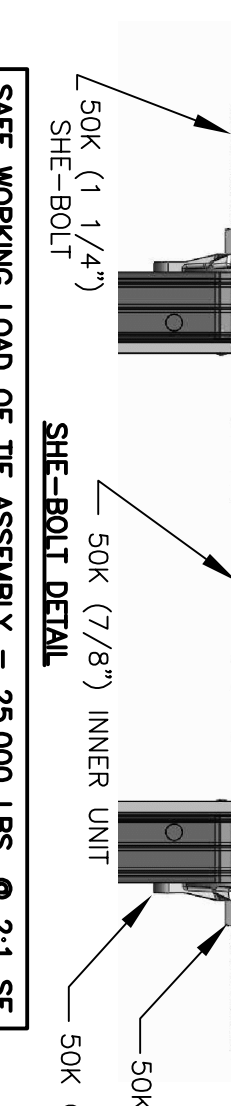
50K TAPER TIE (TAPER FROM 1" TO 1 1/4")
SAFE WORKING LOAD OF THE ASSEMBLY = 25,000 LBS. @ 2:1 SF



50K CAST BEARING
SAFE WORKING LOAD OF THE ASSEMBLY = 25,000 LBS. @ 2:1 SF

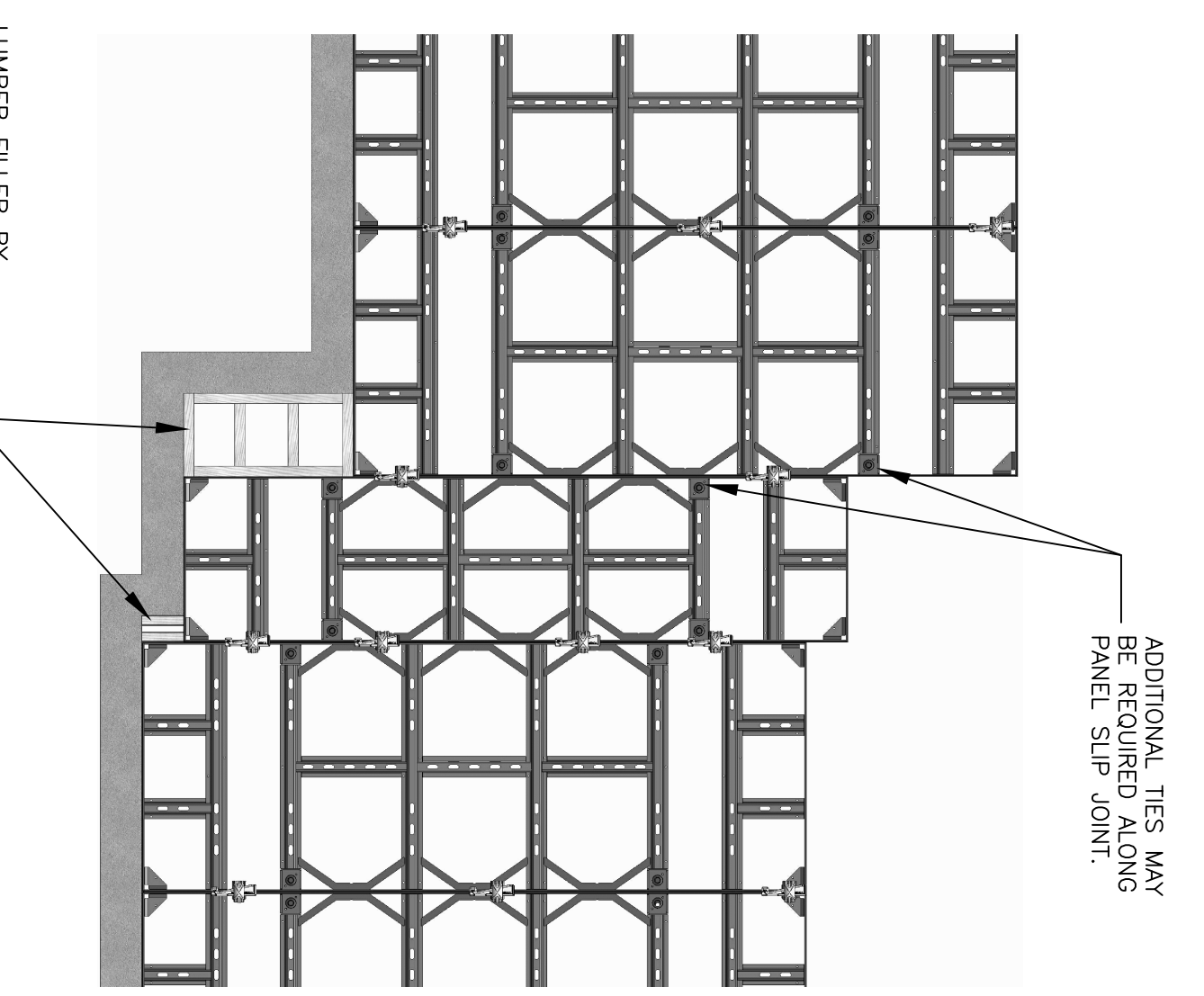


50K CONTOUR NUT
SAFE WORKING LOAD OF THE ASSEMBLY = 25,000 LBS. @ 2:1 SF



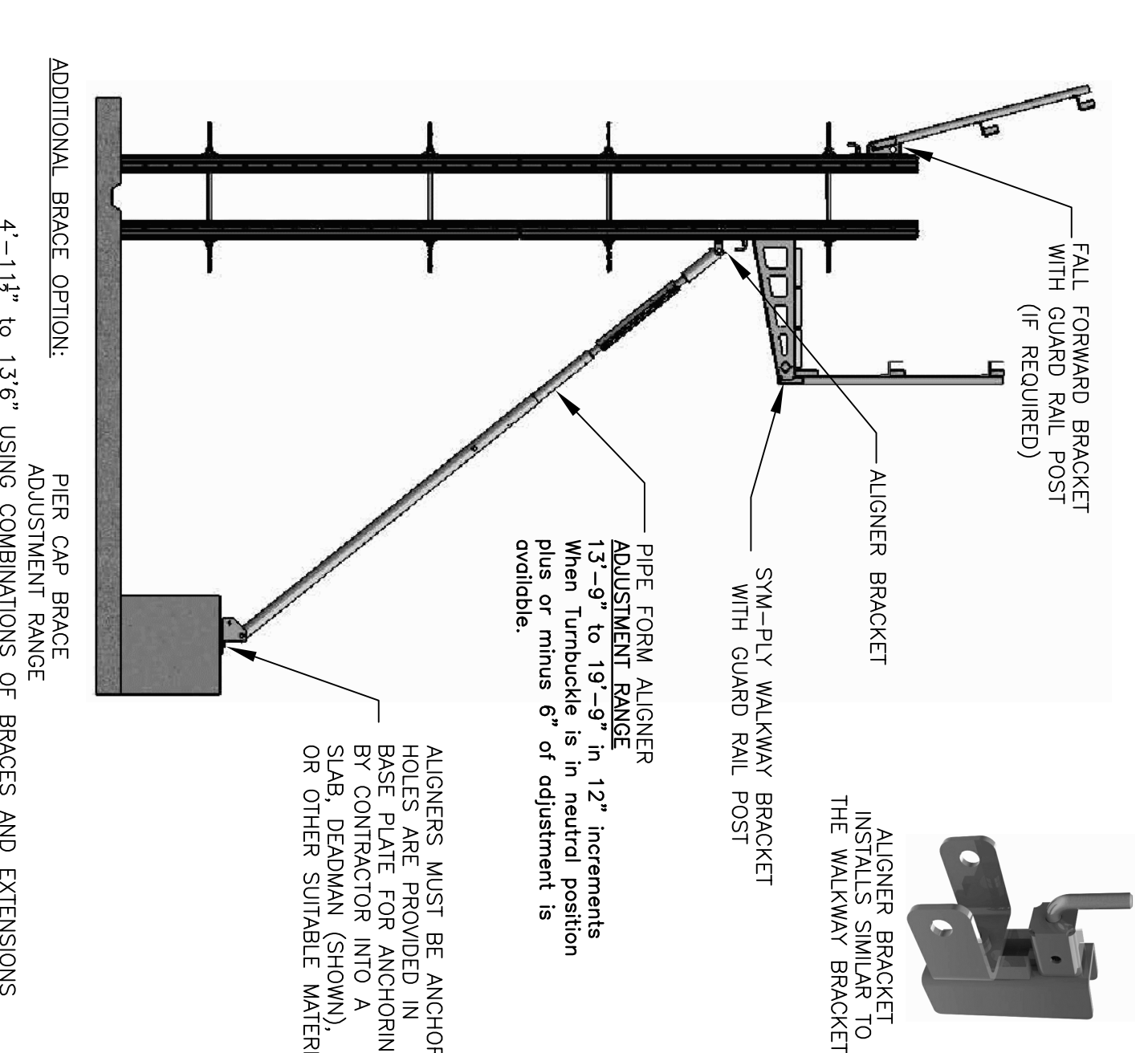
50K CAST BEARING WASHER
SAFE WORKING LOAD OF THE ASSEMBLY = 25,000 LBS. @ 2:1 SF

STEPPED ELEVATIONS



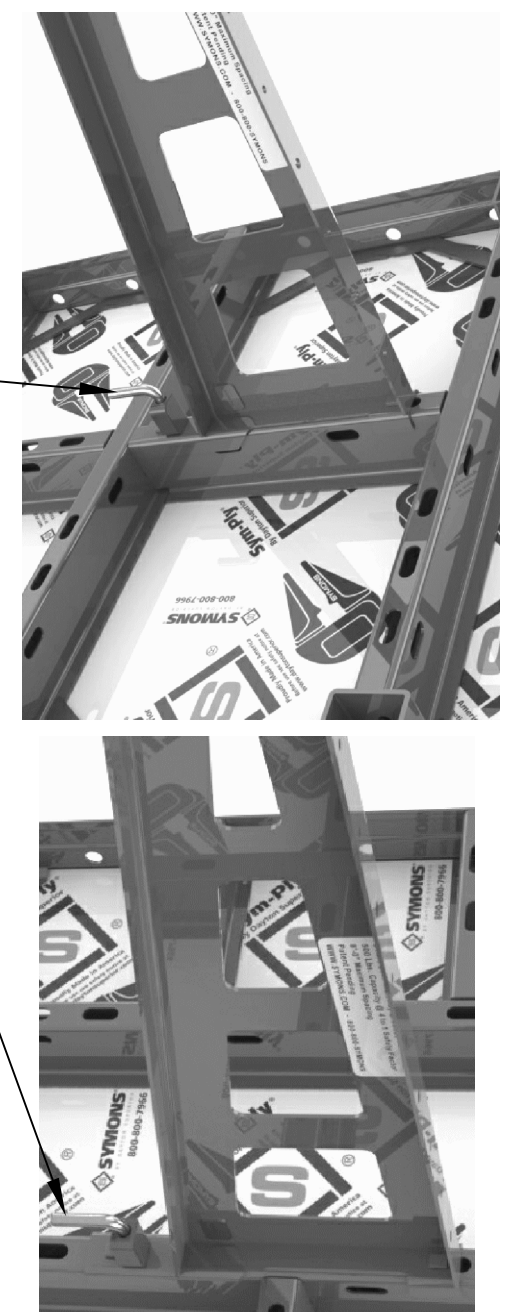
ADDITIONAL TIES MAY BE REQUIRED ALONG PANEL SLIP JOINT.

VERTICAL FORM ALIGNMENT



ADDITIONAL BRACE OPTION: PER CAP BRACE ADJUSTMENT RANGE 4'-11 1/2" to 13'6" USING COMBINATIONS OF BRACES AND EXTENSIONS

SECURING WALKWAY BRACKETS
MAXIMUM SPACING OF WALKWAY BRACKET IS 8'-0" AT A PERMISSIBLE LOAD OF 500 Lbs. @ 4:1 SAFETY FACTOR

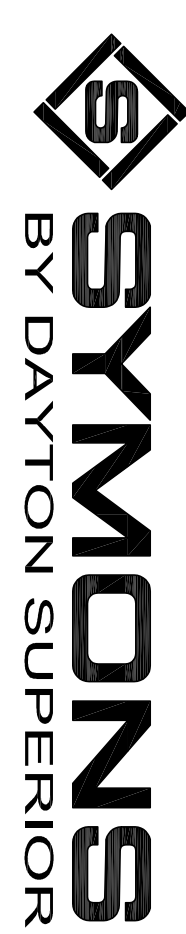


WALKWAY BRACKET ON VERTICAL PANEL
WALKWAY BRACKET ON HORIZONTAL PANEL

INSTALLATION AND REMOVAL OF WALKWAY BRACKETS.

TO INSTALL: WALKWAY BRACKET AT A SLIGHT ANGLE. INSERT THE TOP HOOK INTO AND AGAINST THE TOP OF A SLOT. WITH THE TOP OF THE BRACKET HELD AGAINST THE VERTICAL/HORIZONTAL MEMBER, ROTATE THE BOTTOM HOOK INTO THE LOWER SLOT AND SLIDE THE ENTIRE BRACKET DOWN UNTIL THE HOOKS ENGAGE AND THE SPRING PIN SWAPS INTO THE SLOT.
NOTE: BE SURE SPRING PIN SWAPS INTO SLOT AS THIS PREVENTS UPLIFT AND/OR ACCIDENTAL REMOVAL.
TO REMOVE: PULL THE SPRING HANDLE BACK AND SLIDE THE BRACKET UP AND PULL THE BRACKET AWAY FROM THE VERTICAL/HORIZONTAL MEMBER.

THE CONTRACTOR IS RESPONSIBLE FOR SUPPLYING ANY ADDITIONAL COMPONENTS (PLANKING, GUARDRAILS, ETC.) OR EXCEEDS ALL APPLICABLE INDUSTRY STANDARDS.



SYMONS
BY DAYTON SUPERIOR
2400 ARTHUR AVENUE
ELK GROVE VILLAGE, IL. 60007
1-800-800-7652
www.daytonsuperior.com

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LOCATION

DATE

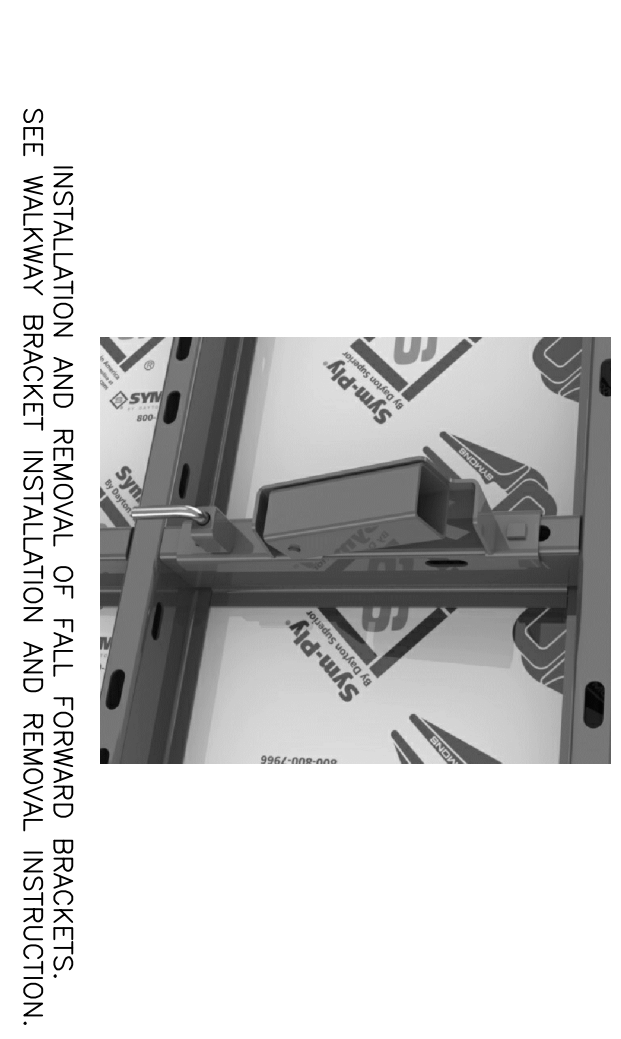
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DRAWING NO.

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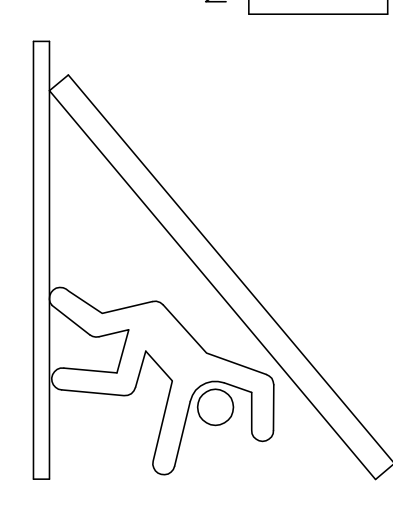
FALL FORWARD BRACKET



MAXIMUM SPACING OF FALL FORWARD BRACKET IS 8'-0" C/C

WARNING

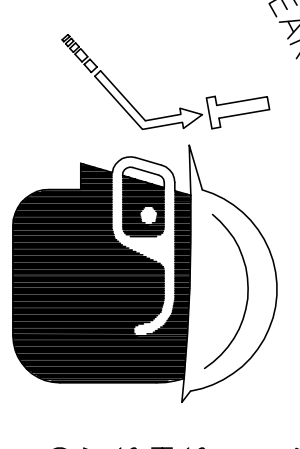
UNSECURED GANG FORMS CAN FALL OVER CAUSING SEVERE INJURY OR DEATH



IMPORTANT:

- BRACING MUST BE IN PLACE WHILE SETTING FORMWORK AND REMAIN IN PLACE UNTIL FORMS ARE STRIPPED.
- CONTRACTOR IS TO INSURE THAT FORMWORK IS PROPERLY BRACED AND STABILIZED AGAINST WIND AND OTHER EXTERNAL FORCES.
- STRIPPING AND REMOVAL OF GANG FORMS
- ATTACH THE CRANE RIGGING TO THE LIFTING BRACKETS AND SLOWLY TAKE UP THE SLACK IN THE RIGGING.
- SECURE BACKSIDE GANG TO PREVENT ITS FALLING, PRIOR TO STEP 3.
- SAFELY REMOVE ALL TIES, BRACES, AND ALIGNERS.
- BREAK THE BOND BETWEEN THE CONCRETE AND THE FORMS. DO NOT USE THE CRANE TO BREAK THE BOND.
- MOVE THE GANG FORM TO THE NEXT LOCATION.
- FULLY BRACE AND SECURE THE FORM BEFORE REMOVING CRANE RIGGING.

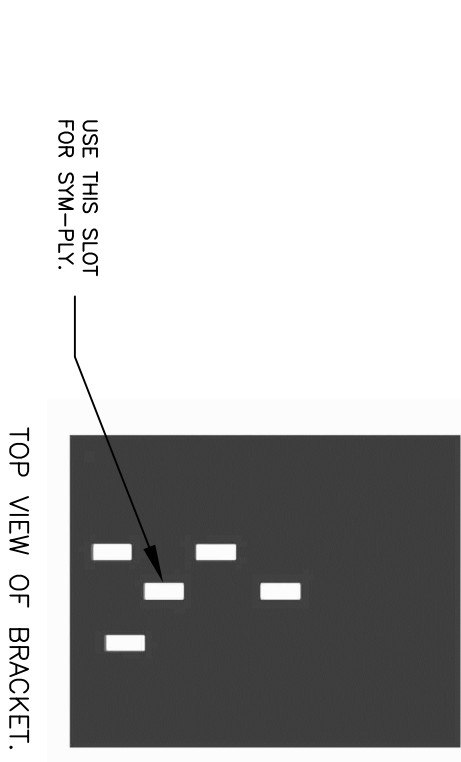
WEAR EYE AND HEAD PROTECTION



SYMONS RECOMMENDS GLOVES, HARDHATS, SAFETY SHOES AND SAFETY GLASSES BE WORN DURING ALL FORMING AND POURING OPERATIONS.

SPECIFIC TIE NOTES

- WHEN USING TAPER TIES AND/OR SHE-BOLTS, IT IS VERY IMPORTANT THAT THE TIE NUTS ARE CONSISTENTLY FITTED SNUG. AN OVERTIGHTENED TIE COULD CAUSE A TIE FAILURE DUE TO UNEVEN TIE LOADING. USE OF WALL SPREADERS IS RECOMMENDED TO AID IN MAINTAINING FORM SPACING BOTH DURING ERECTION AND POUR PROCESSES.
- TAPER TIES AND SHE-BOLTS MUST BE ADEQUATELY LUBRICATED TO AID IN STRIPPING.



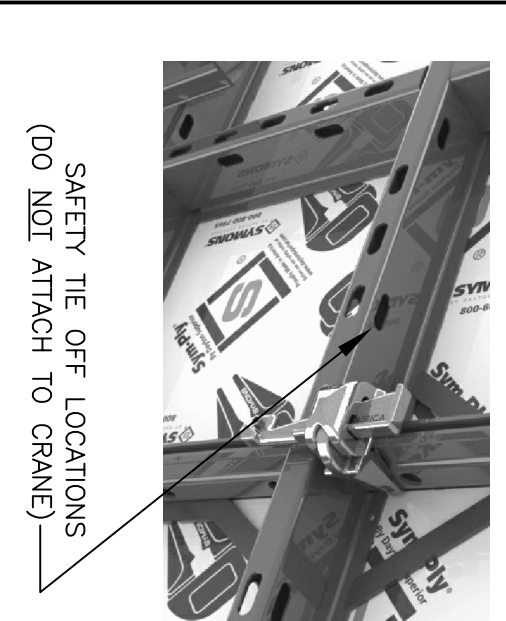
FRONT VIEW OF BRACKET.
REAR VIEW OF BRACKET.

USE THIS SLOT FOR STRIPPING.

TYPICAL TIE PLATE ORIENTATION AT PANEL JOINTS



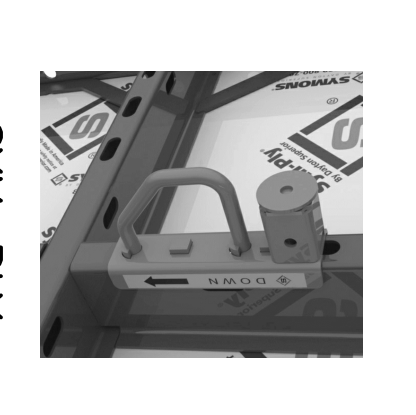
SAFETY TIE OFF LOCATIONS



SAFETY TIE OFF LOCATIONS (DO NOT ATTACH TO CRANE)



SYM-PLY TURNBUCKLE BRACKET ON TYPE 1 PANEL



SYM-PLY TIE OFF BRACKET RATED @ 5,000 Lbs (DO NOT ATTACH TO CRANE)



SYM-PLY TURNBUCKLE ON TYPE 2 PANEL

MULTI-SHEAR WALL BRACKET & GUIDE PLATE

RATED @ 2,000 Lbs IN 2,000 P.S.I. CONCRETE @ 3:1 SAFETY FACTOR



FRONT VIEW OF BRACKET.
REAR VIEW OF BRACKET.