

# TITLE PAGE

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**Project: Union Square 3B**  
**Product: Precast Concrete Footing**  
**Contractor: J. Hales Co.**

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3029-05-WALL-C	5	A	2-1-06	WALL C VIEWS
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3029-07-FLDLFTWB	7	A	2-1-06	WALL B FIELD LIFT & SET

**MANUFACTURING FACILITY**

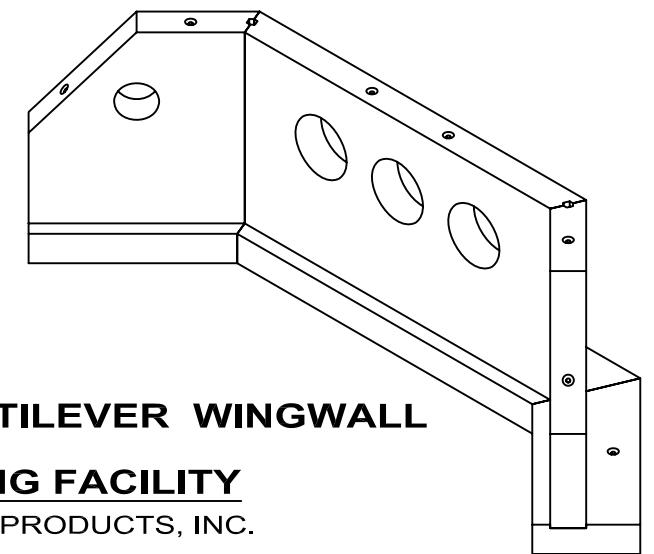
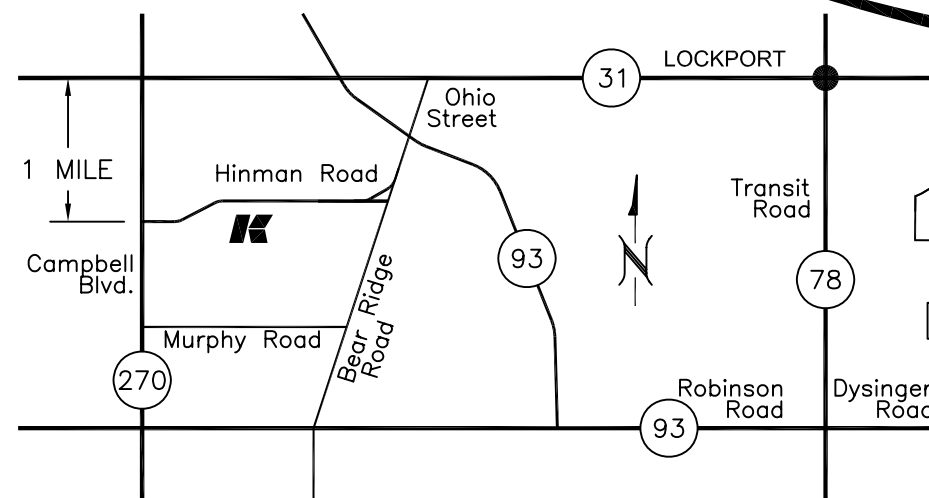
KISTNER CONCRETE PRODUCTS, INC.  
 5550 HINMAN ROAD  
 LOCKPORT, N.Y.  
 (716) 434-6157  
 (716) 693-0174  
 FAX: (716) 434-0138

**MAILING ADDRESS:**

**SALES/ENGINEERING & CORPORATE HEADQUARTERS**  
 KISTNER CONCRETE PRODUCTS, INC.  
 8713 READ ROAD, P.O. BOX 218  
 EAST PEMBROKE, NEW YORK 14056  
 (716) 894-2267  
 (585) 762-8216  
 FAX: (585) 762-8315

**MANUFACTURING FACILITY**

KISTNER CONCRETE PRODUCTS, INC.  
 5726 ROUTE 39 - RD 1  
 SPRINGVILLE, N.Y.  
 (716) 592-2811  
 FAX: (716) 592-3045



**CANTILEVER WINGWALL**

**MANUFACTURING FACILITY**

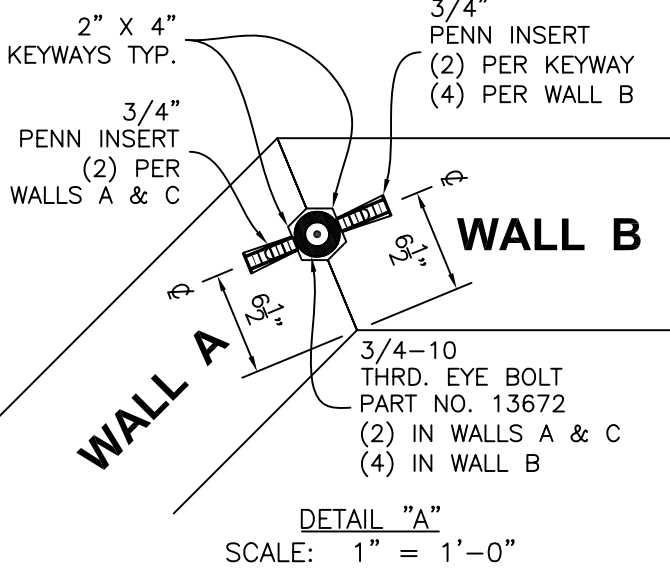
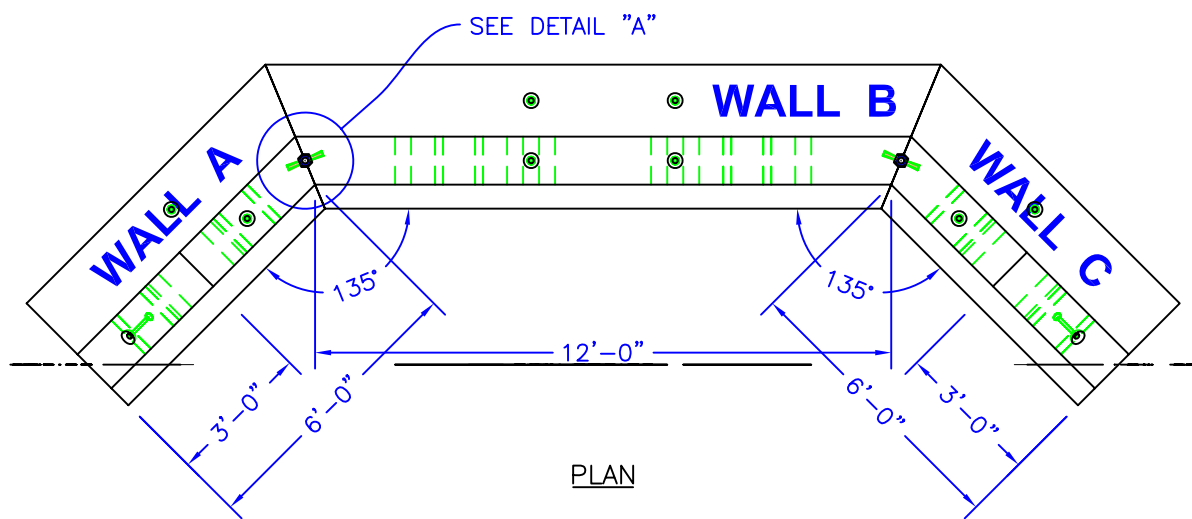
KISTNER CONCRETE PRODUCTS, INC.  
 10002 EAST ROAD  
 EAST BETHANY, N.Y.  
 (585) 343-7811  
 FAX: (585) 343-2546

IH-31	PRODUCT IH HANDLING	02-23-06
IH-81	WW STEEL - WALL A	B 03-13-06
IH-82	WALL & FND POUR - WALL A	02-21-06
IH-83	WW STEEL - WALL B	B 03-13-06
IH-84	WALL & FND POUR - WALL B	02-21-06
IH-85	WW STEEL - WALL C	B 03-13-06
IH-86	WALL & FND POUR - WALL C	02-21-06

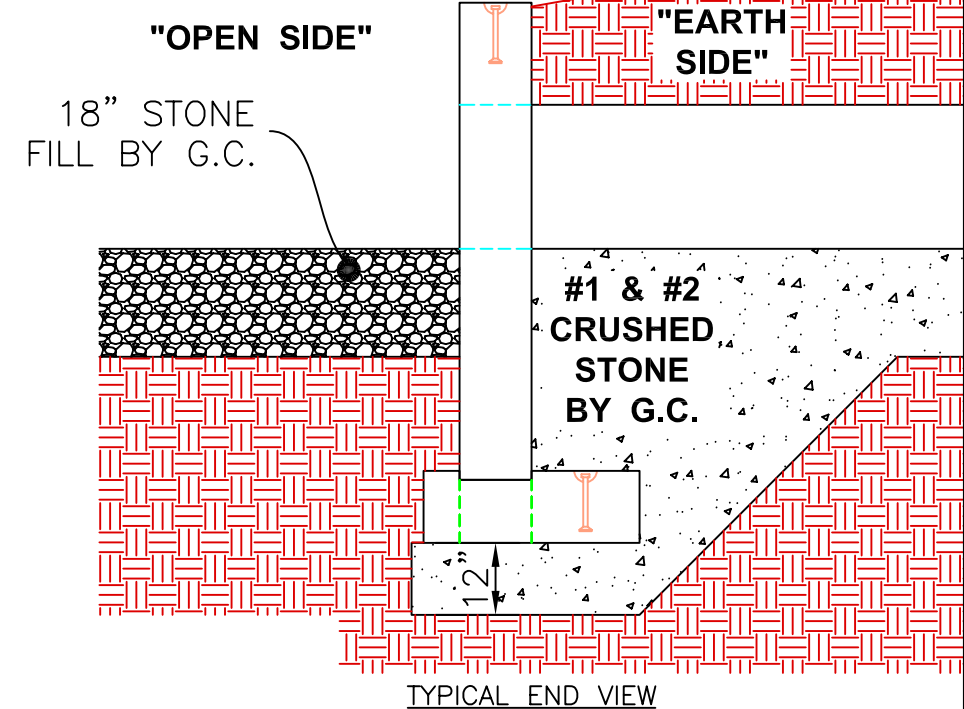
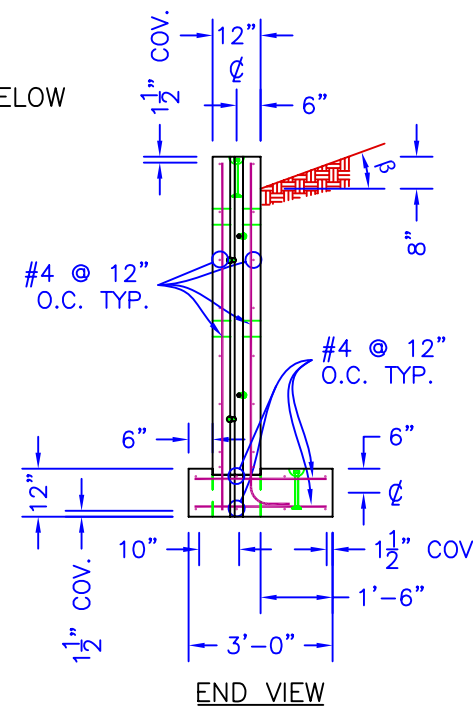
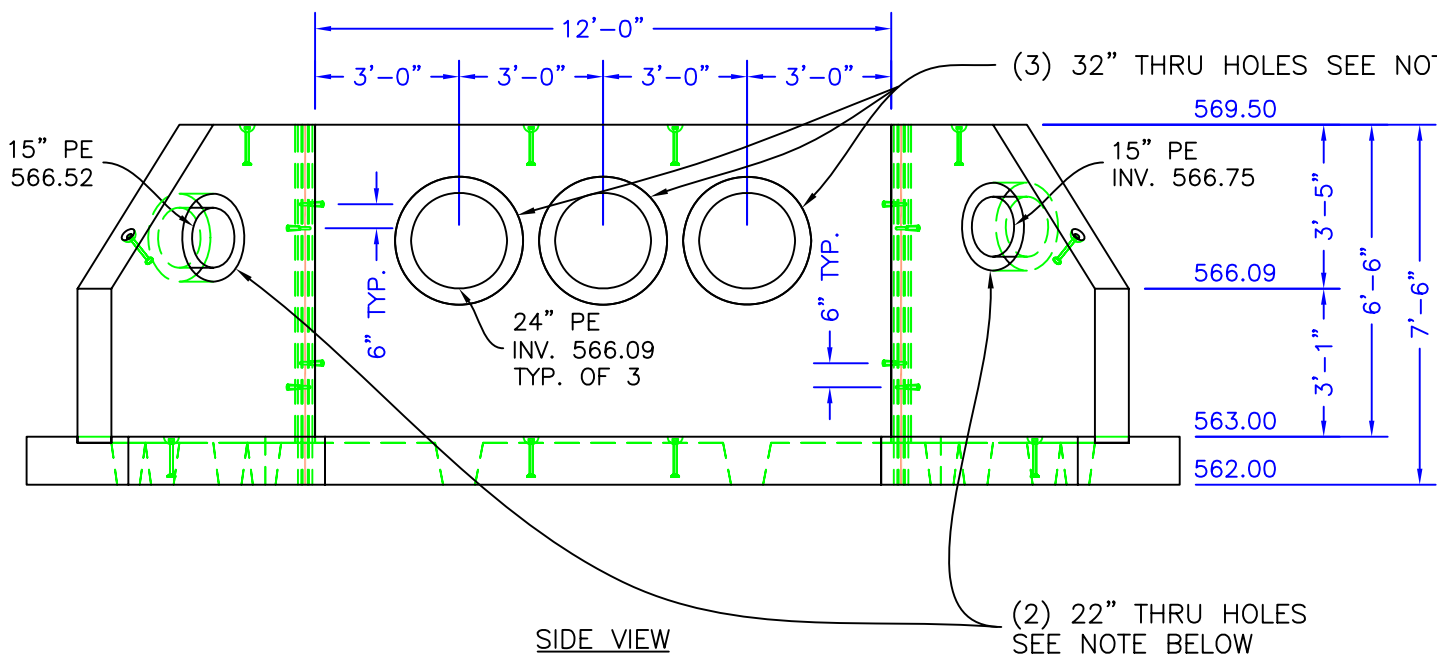
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By: _____		PROJECT: UNION SQUARE 3B			
Date: _____		LOCATION: CHILI, MONROE COUNTY, NEW YORK			
		OWNER:			
		ENGINEER:			
		CONTRACTOR: J. HALES CO. ACCT # 14342			
		1140 LEHIGH STATION, HENRIETTA, NEW YORK 14623			
		PRODUCT DESIGNATION:		<b>PRECAST CONCRETE FOOTING</b>	
				<b>TITLE PAGE AND INDEX</b>	
		SCALE: NONE	DRAWN BY: DAR	DATE: 1-26-06	DWG. NO.
		REVISED BY: EFA	CHECKED BY:	<b>3029-01-INDEX</b>	
KISTNER CONCRETE PRODUCTS, INC.			PROPRIETARY INFORMATION - ALL RIGHTS OF KISTNER CONCRETE PRODUCTS, INC.		

**DESIGN CRITERIA FOR PRECAST WINGWALLS**

- 1.) CONCRETE: 34.5 MPa [5000 PSI] @ 28 DAYS.
- 2.) ENTRAINED AIR: 5% - 9%.
- 3.) STEEL: ASTM A 615 GRADE 60 KSI.
- 4.) NET ALLOWABLE BEARING PRESSURE: ?? PSF.
- 5.) COEFFICIENT OF FRICTION, PRECAST CONCRETE TO SOIL = ??.
- 6.) INTERNAL ANGLE OF FRICTION = ?? DEGREES.
- 7.) ACTIVE CONDITION  $K_a = ??$ .
- 8.)  $\beta = 0^\circ$ .
- 9.) UNIT WEIGHT OF COMPACTED SOILS = 120 PSF.
- 10.) ALL EXPOSED EDGES OF PRECAST WINGWALLS SHALL BE CHAMFERED 19mm. [3/4 INCH] TYP.
- 11.) SAFETY FACTORS: (MIN.) SLIDING: ??  
OVERTURNING: ??
- 12.) GEOTECHNICAL DESIGN DATA WAS NOT PROVIDED IN CONTRACT PLANS. ALL REINFORCEMENT IS AS DETAILED IN CONTRACT PLANS. THEREFORE, CONTRACTOR IS REQUIRED TO VERIFY STRUCTURAL DESIGN.

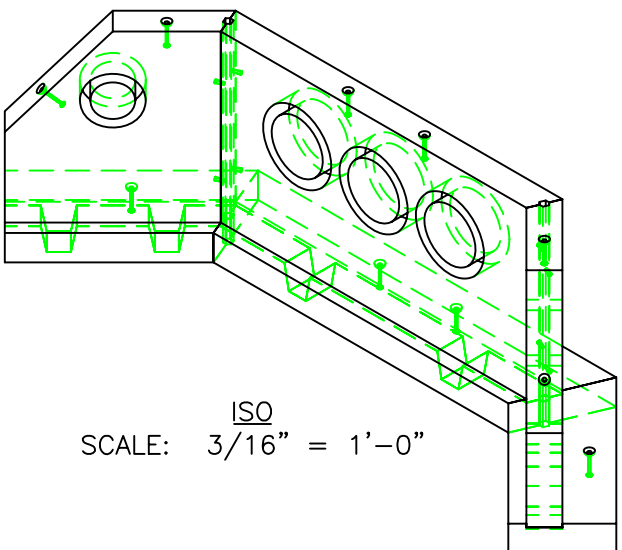


NOTE: CONTRACTOR TO DROP #4 BAR THRU EYEBOLTS FOR CONNECTION OF WALL SECTIONS.



**QTY: 2 UNITS**

NOTE: CONTRACTOR SHALL SEAL WALL OPENINGS WITH NON-SHRINK CONCRETE GROUT



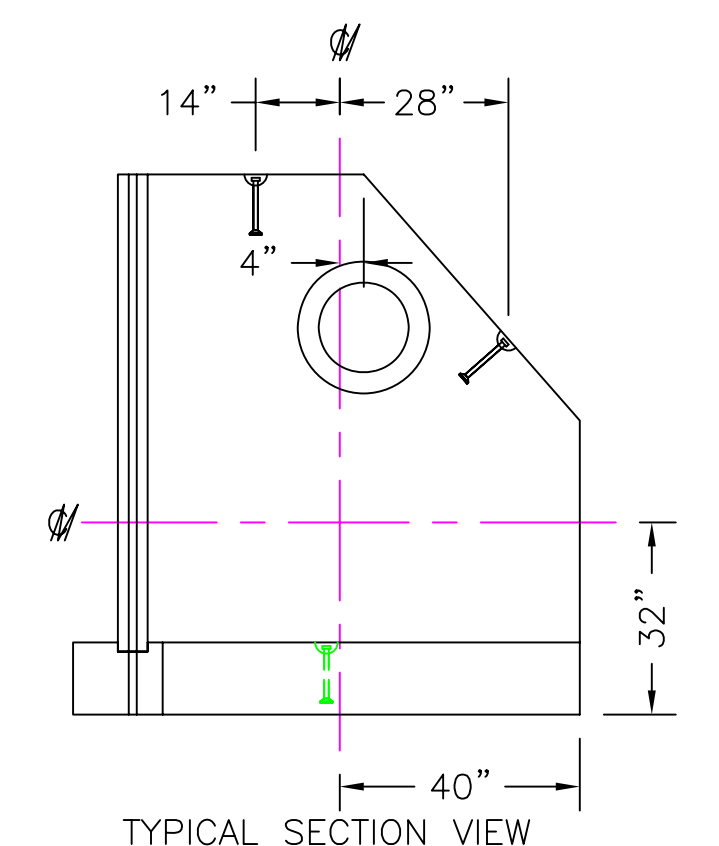
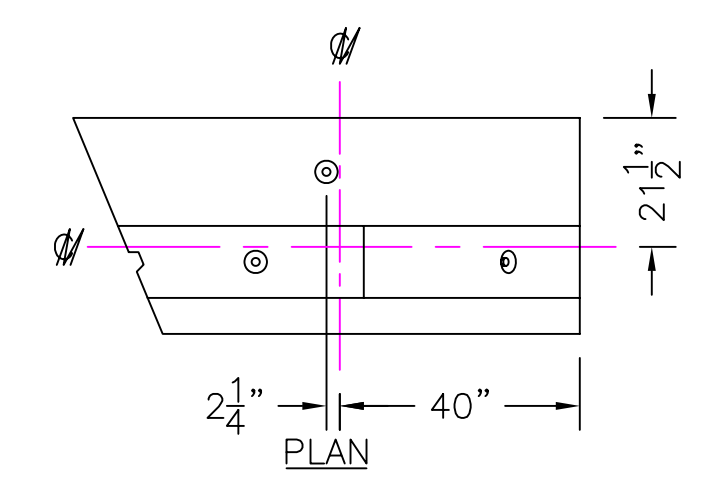
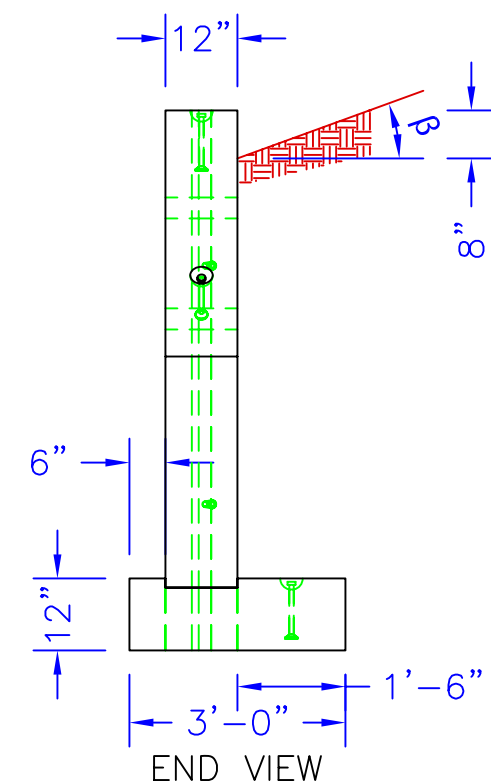
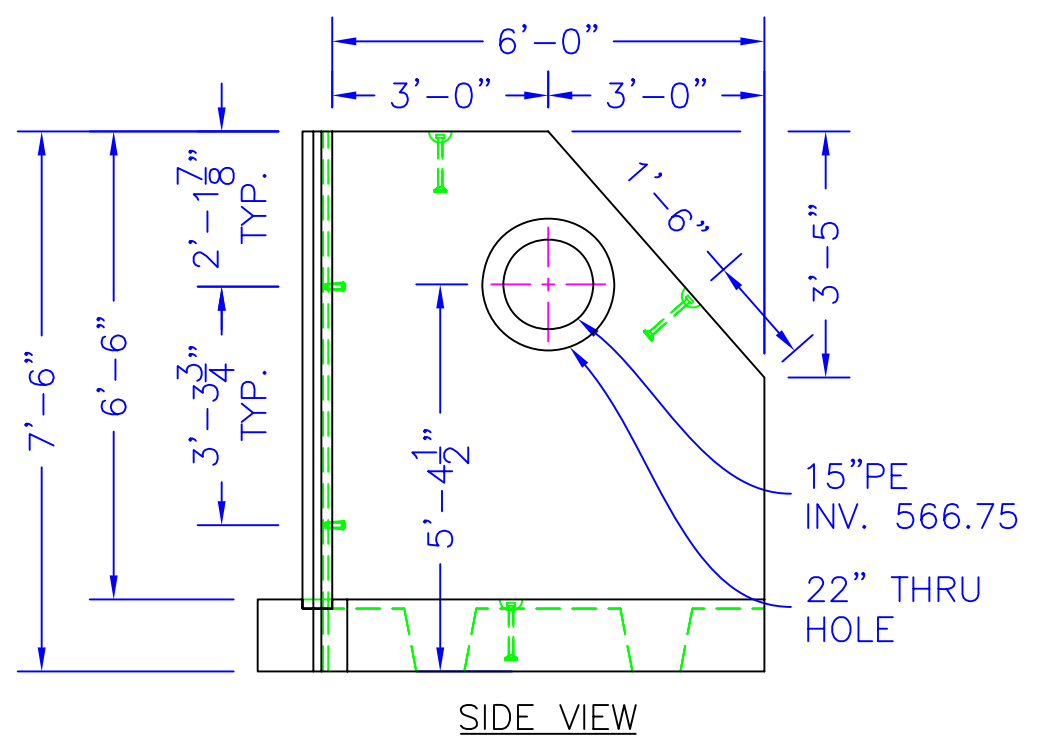
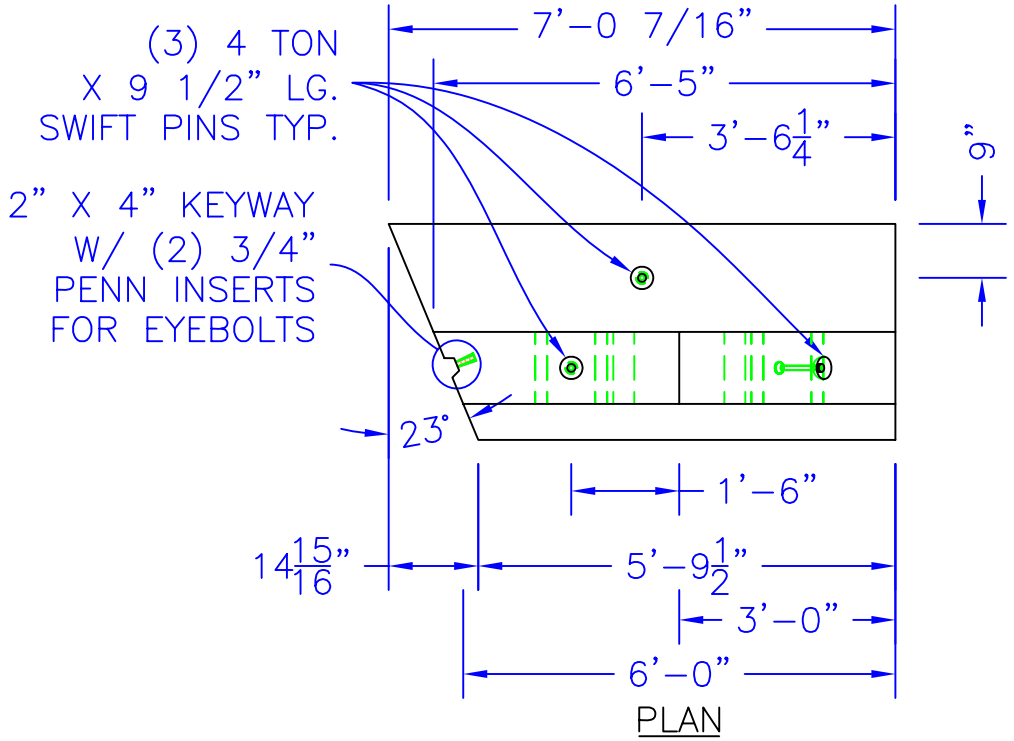
Approved  
 Approved As Noted

By: \_\_\_\_\_ Date \_\_\_\_\_

	REVISION: <b>B</b>	DATE: <b>3/13/06</b>	REVIEWED BY: _____	DATE: _____
	CONTR. NO.: _____		PAY ITEM: _____	
PROJECT: <b>UNION SQUARE 3B</b>				
LOCATION: <b>CHILI, MONROE COUNTY, NEW YORK</b>				
OWNER: _____				
ENGINEER: _____				
CONTRACTOR: <b>J. HALES CO. ACCT # 14342</b>				
<b>1140 LEHIGH STATION, HENRIETTA, NEW YORK 14623</b>				
PRODUCT DESIGNATION: _____			<b>PRECAST CONCRETE FOOTING</b>	
			<b>PRODUCT VIEWS</b>	
SCALE: <b>1/4"=1'</b>		DRAWN BY: <b>DAR</b>		DATE: <b>1-26-06</b>
REVISED BY: <b>EFA</b>		CHECKED BY: _____		DWG. NO. <b>3029-02-PRODVW</b>

KISTNER CONCRETE PRODUCTS, INC.

PROPRIETARY INFORMATION - ALL RIGHTS OF KISTNER CONCRETE PRODUCTS, INC.



NOTE: CONTRACTOR SHALL SEAL WALL OPENINGS WITH NON-SHRINK CONCRETE GROUT.

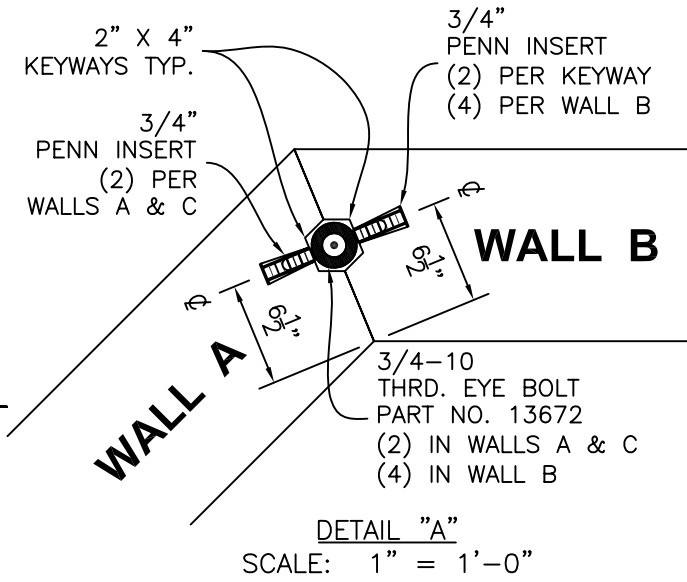
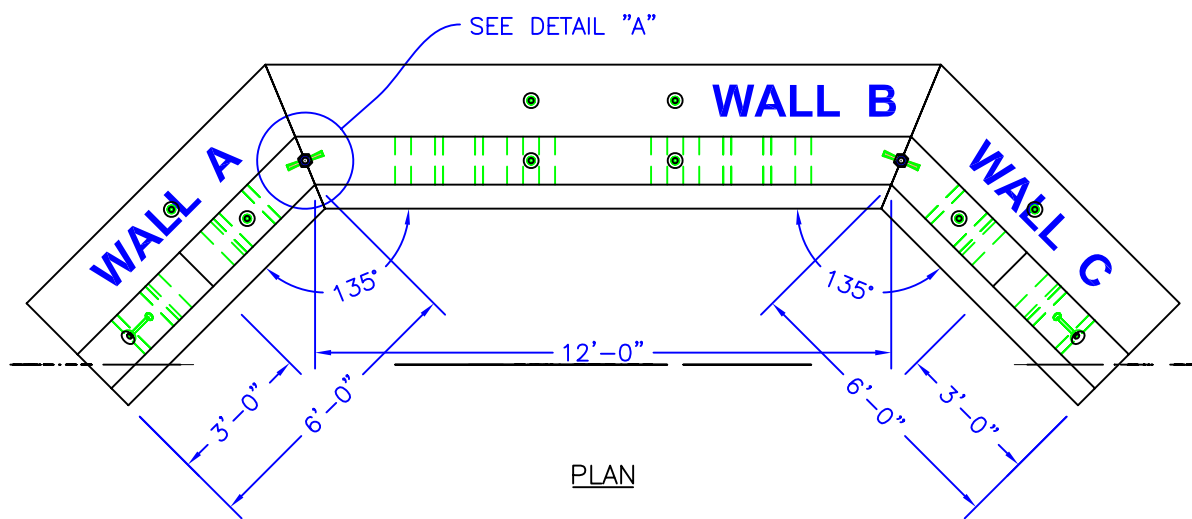
# WALL C

**QTY: 2 UNITS**

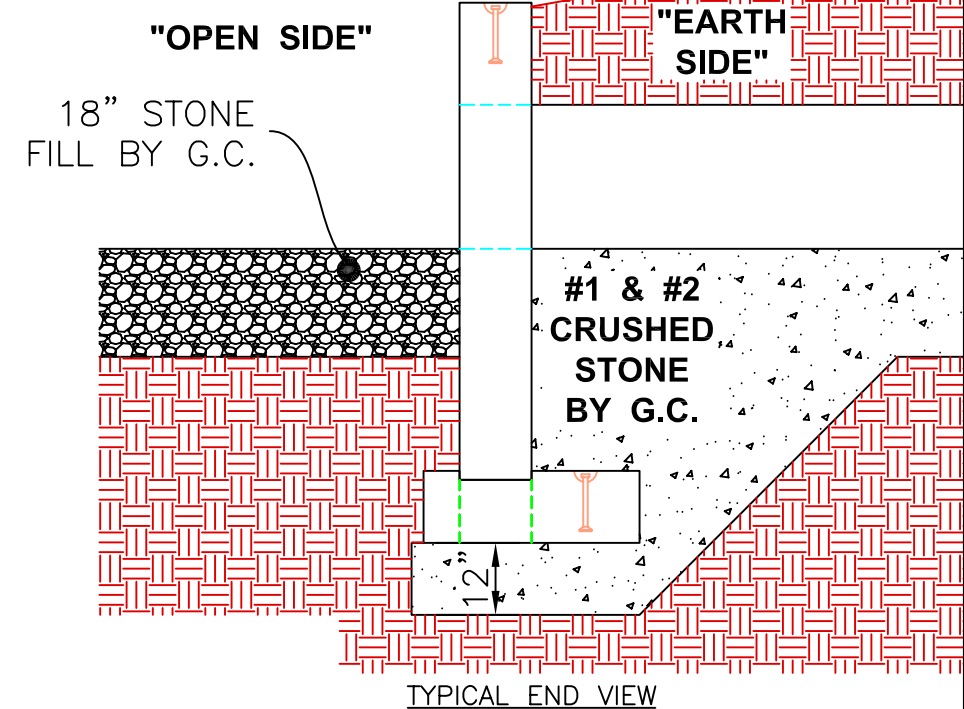
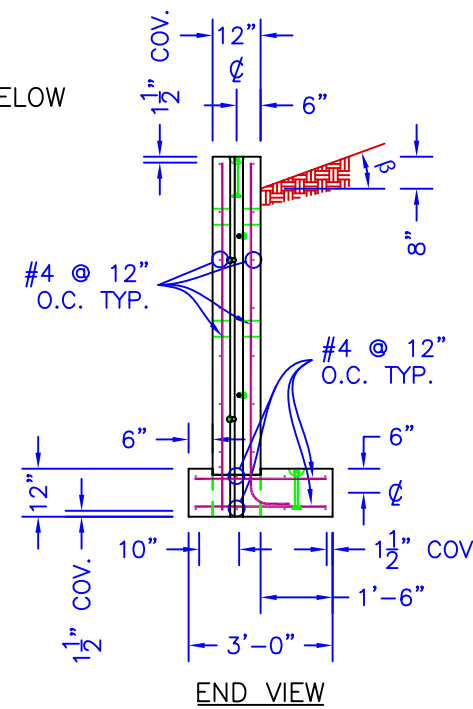
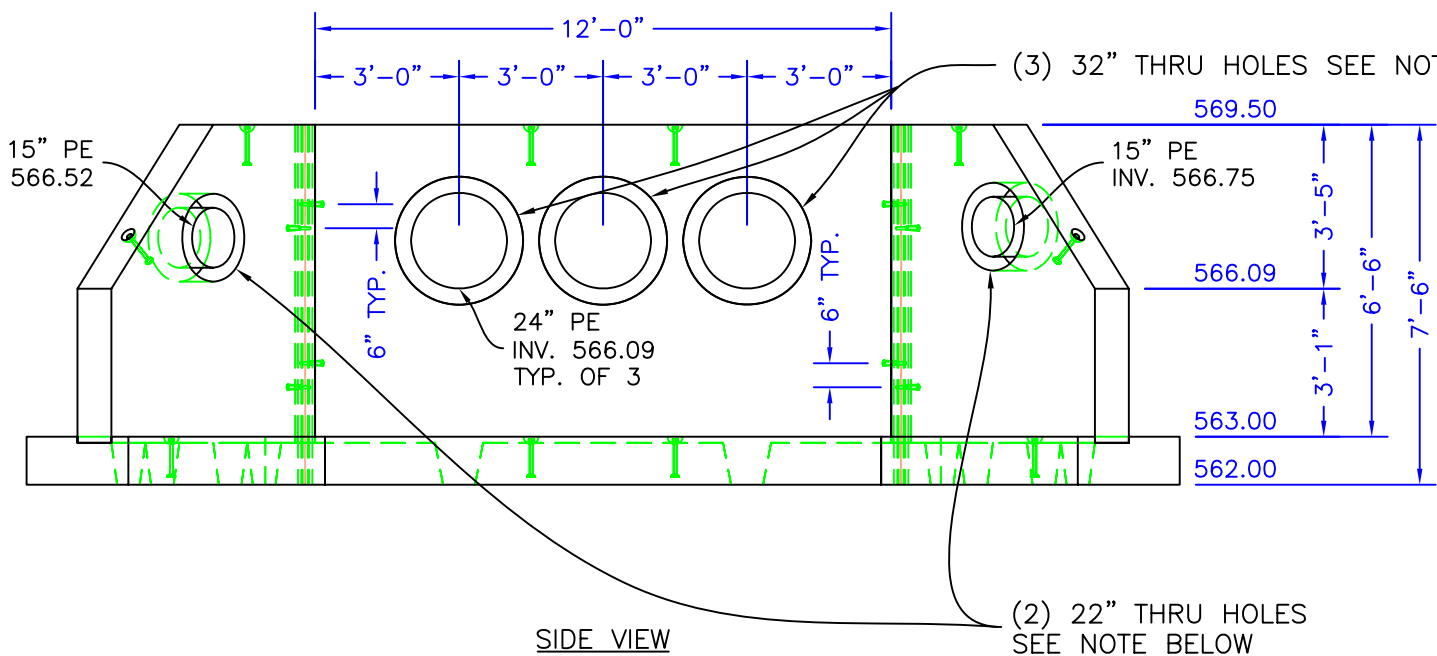
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		CONTR. NO.: PROJECT: UNION SQUARE 3B		PAY ITEM:	
By: _____		LOCATION: CHILI, MONROE COUNTY, NEW YORK			
Date: _____		OWNER:			
		ENGINEER:			
		CONTRACTOR: J. HALES CO. ACCT # 14342			
		1140 LEHIGH STATION, HENRIETTA, NEW YORK 14623			
		PRODUCT DESIGNATION:		PRECAST CONCRETE FOOTING	
				WALL C VIEWS	
		SCALE: 3/8"=1'		DRAWN BY: DAR DATE: 1-26-06	
		REVISED BY: DAR		CHECKED BY:	
				DWG. NO. 3029-05-WALL-C	
KISTNER CONCRETE PRODUCTS, INC.				PROPRIETARY INFORMATION - ALL RIGHTS OF KISTNER CONCRETE PRODUCTS, INC.	

**DESIGN CRITERIA FOR PRECAST WINGWALLS**

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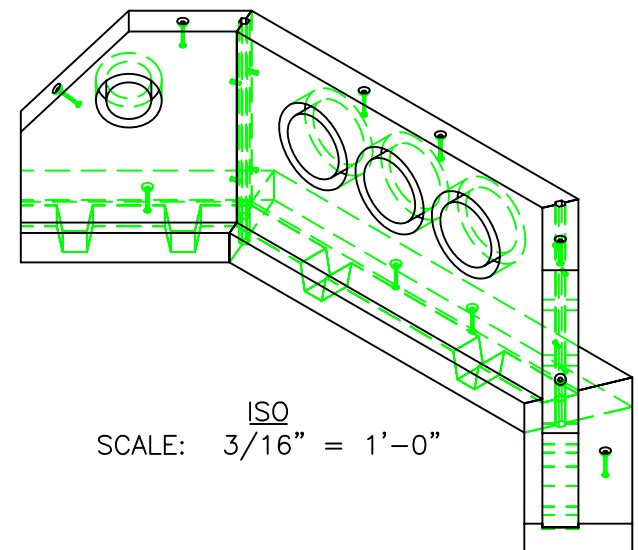


NOTE: CONTRACTOR TO DROP #4 BAR THRU EYEBOLTS FOR CONNECTION OF WALL SECTIONS.



**QTY: 2 UNITS**

NOTE: CONTRACTOR SHALL SEAL WALL OPENINGS WITH NON-SHRINK CONCRETE GROUT

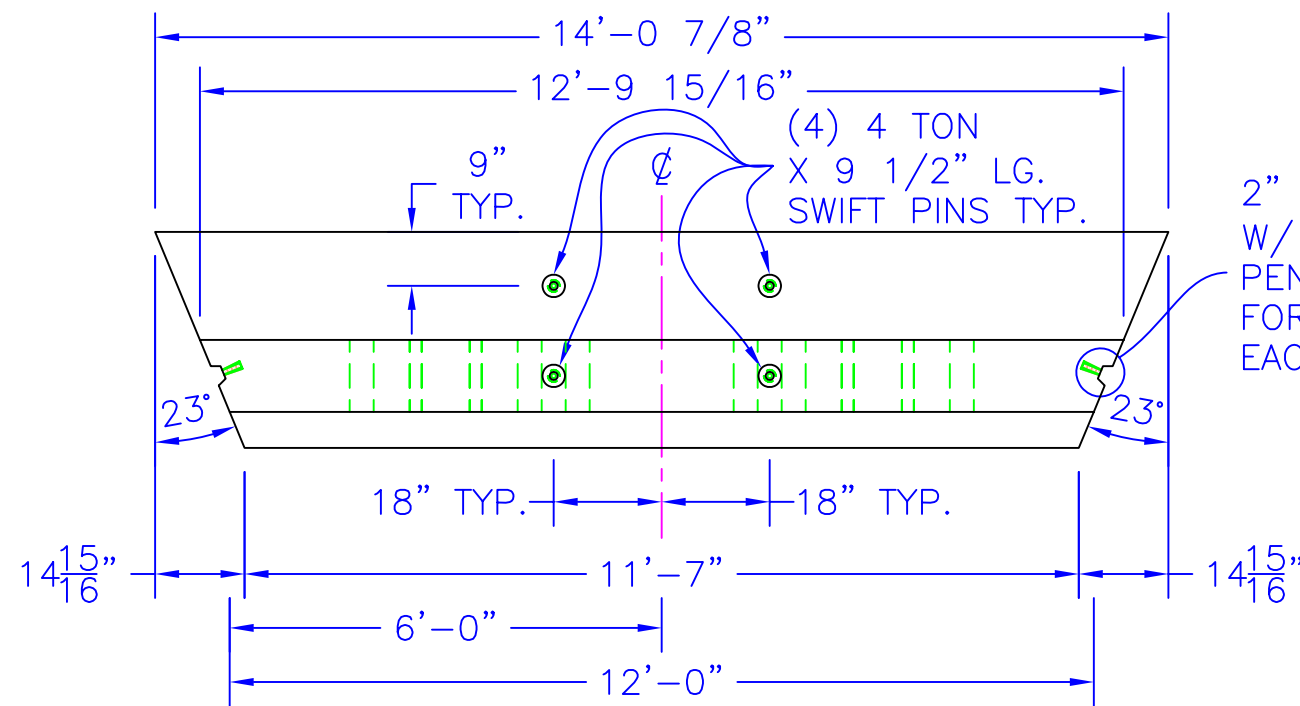


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By: _____	Date _____

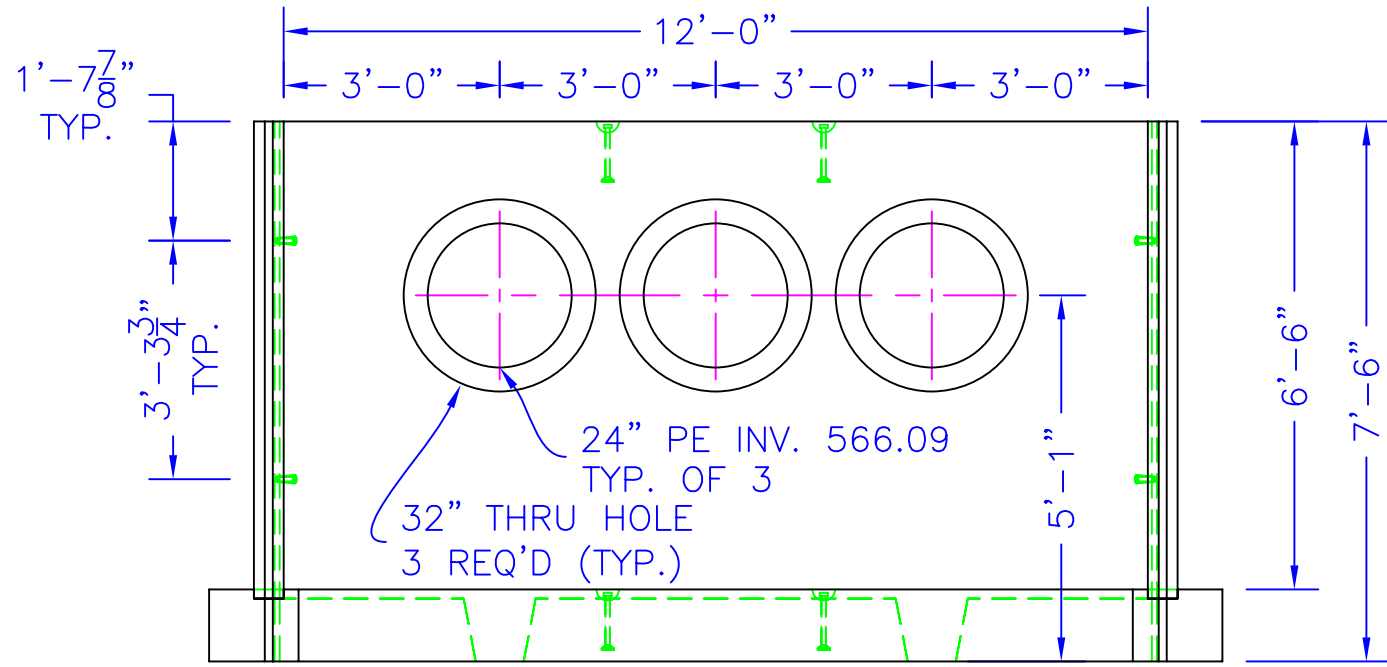
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PROJECT: UNION SQUARE 3B				
LOCATION: CHILI, MONROE COUNTY, NEW YORK				
OWNER: _____				
ENGINEER: _____				
CONTRACTOR: J. HALES CO. ACCT # 14342				
1140 LEHIGH STATION, HENRIETTA, NEW YORK 14623				
PRODUCT DESIGNATION: _____			<b>PRECAST CONCRETE FOOTING</b>	
			<b>PRODUCT VIEWS</b>	
SCALE: 1/4"=1'		DRAWN BY: DAR		DATE: 1-26-06
REVISED BY: EFA		CHECKED BY: _____		DWG. NO. <b>3029-02-PRODVW</b>

KISTNER CONCRETE PRODUCTS, INC.

PROPRIETARY INFORMATION - ALL RIGHTS OF KISTNER CONCRETE PRODUCTS, INC.

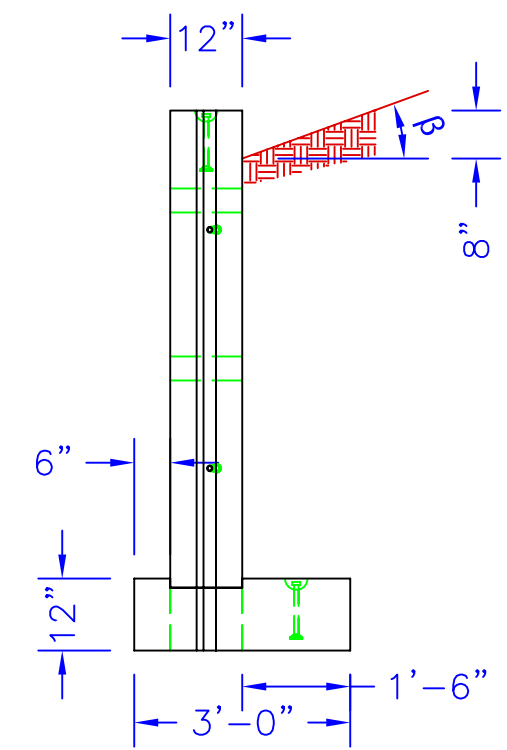
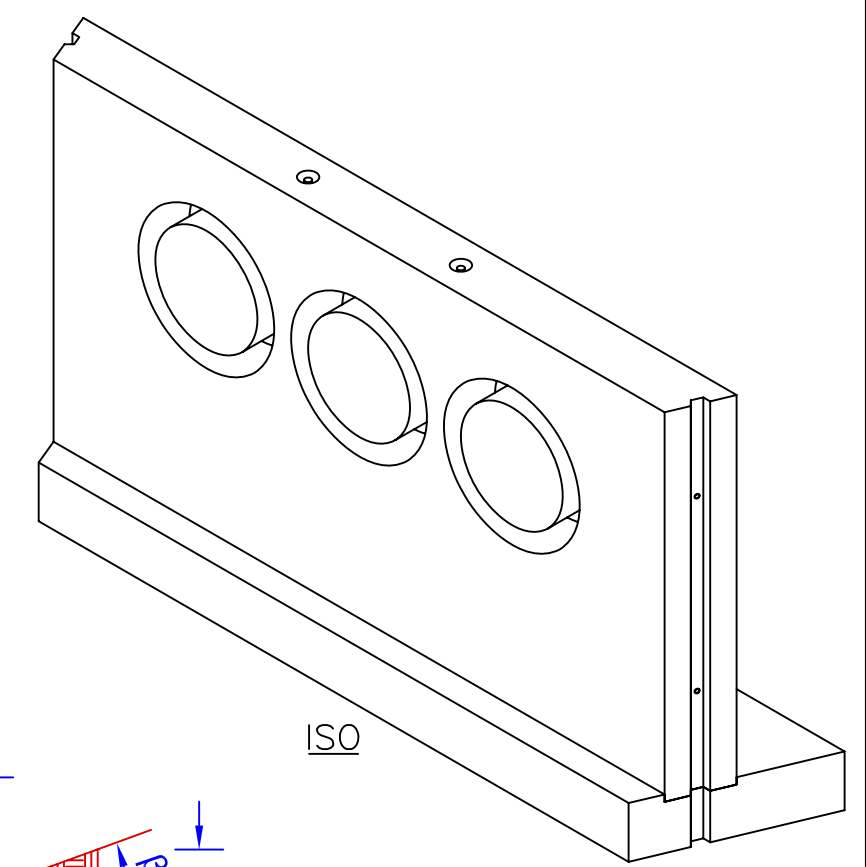


PLAN



SIDE VIEW

NOTE: CONTRACTOR SHALL SEAL WALL OPENINGS WITH NON-SHRINK CONCRETE GROUT.

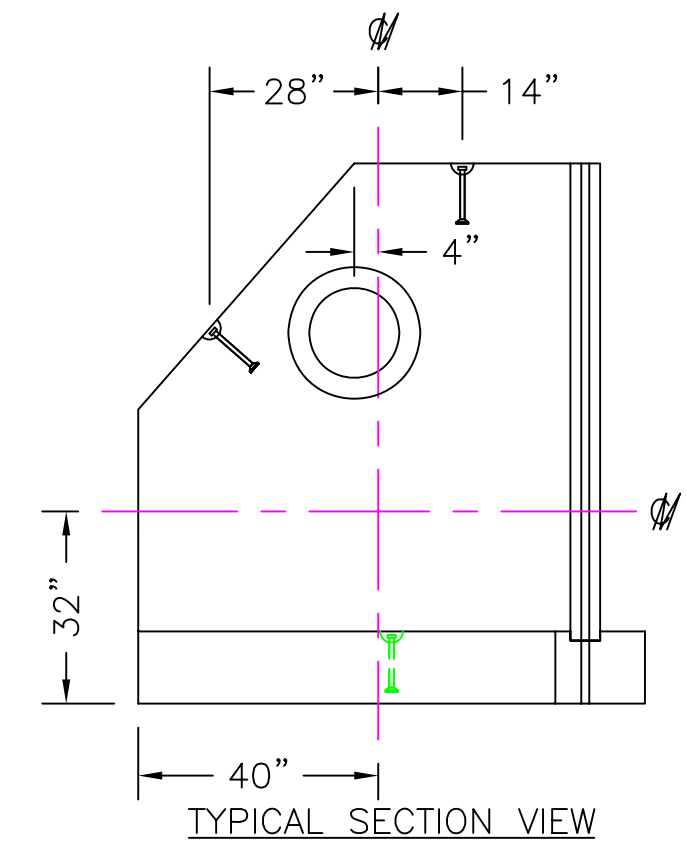
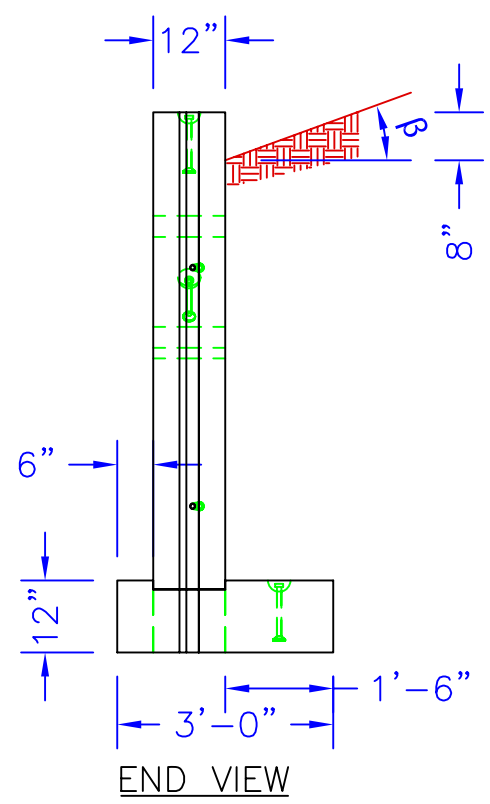
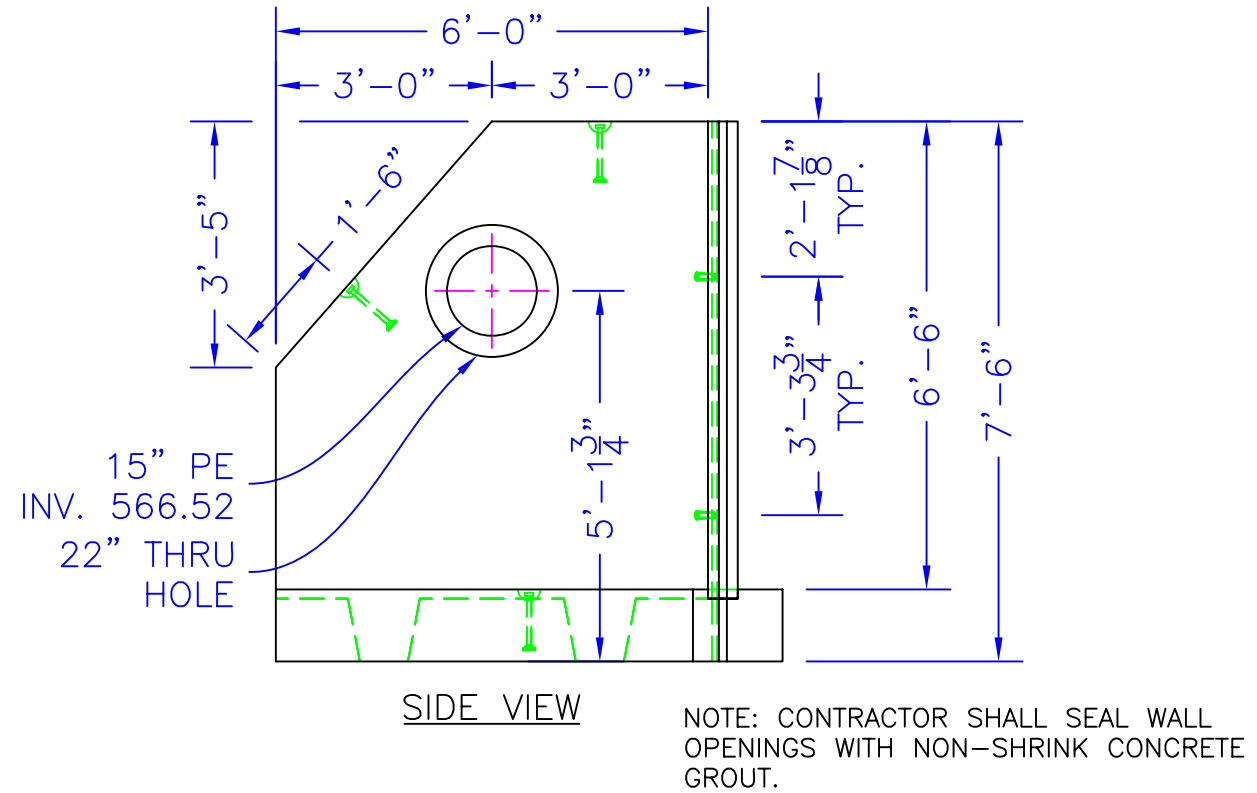
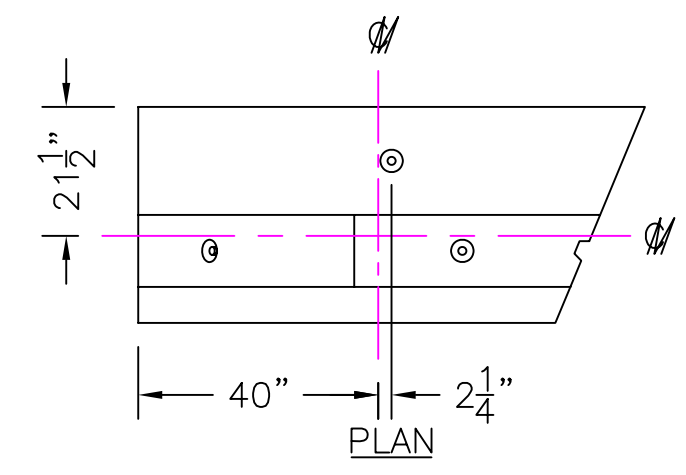
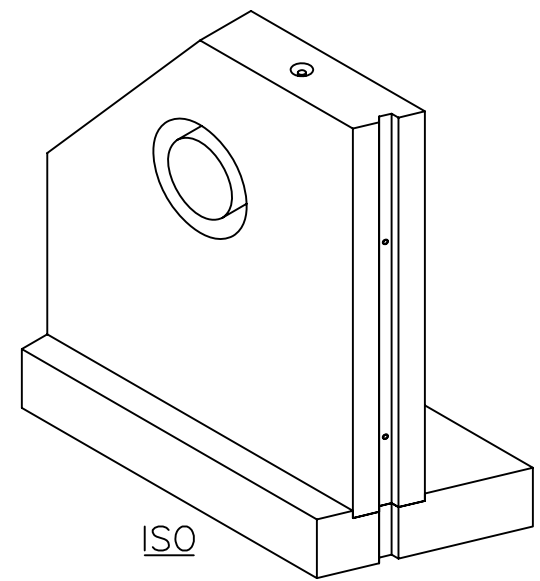
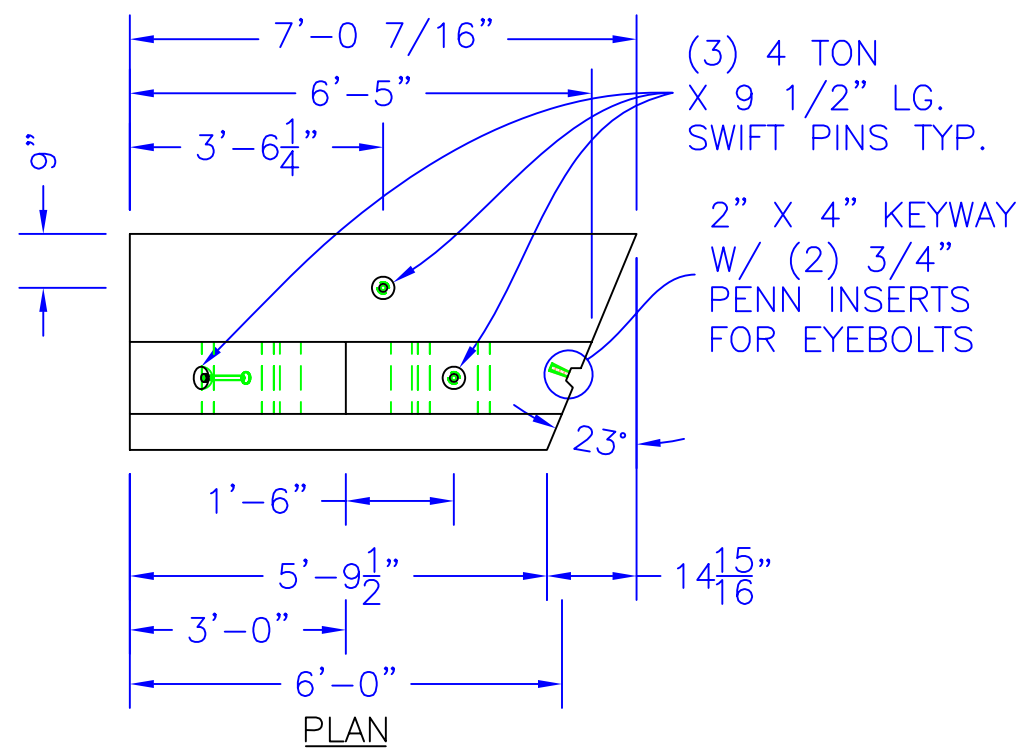


END VIEW

# WALL B

**QTY: 2 UNITS**

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		CONTR. NO.:		PAY ITEM:	
By: _____		PROJECT: UNION SQUARE 3B			
Date: _____		LOCATION: CHILI, MONROE COUNTY, NEW YORK			
		OWNER:			
		ENGINEER:			
		CONTRACTOR: J. HALES CO. ACCT # 14342			
		1140 LEHIGH STATION, HENRIETTA, NEW YORK 14623			
		PRODUCT DESIGNATION:		PRECAST CONCRETE FOOTING	
				WALL B VIEWS	
		SCALE: 3/8"=1'		DRAWN BY: DAR DATE: 1-26-06	
		REVISED BY: DAR		CHECKED BY:	
				DWG. NO. 3029-04-WALL-B	
KISTNER CONCRETE PRODUCTS, INC.				PROPRIETARY INFORMATION - ALL RIGHTS OF KISTNER CONCRETE PRODUCTS, INC.	



# WALL A

## QTY: 2 UNITS

<input type="checkbox"/> Approved <input type="checkbox"/> Approved As Noted		REVISION: <b>A</b> DATE: <b>2-1-06</b> REVIEWED BY:    DATE:
By: _____ Date _____		CONTR. NO.: _____ PAY ITEM: _____ PROJECT: <b>UNION SQUARE 3B</b> LOCATION: <b>CHILI, MONROE COUNTY, NEW YORK</b> OWNER: _____ ENGINEER: _____ CONTRACTOR: <b>J. HALES CO. ACCT # 14342</b> 1140 LEHIGH STATION, HENRIETTA, NEW YORK 14623 PRODUCT DESIGNATION: _____ <b>PRECAST CONCRETE FOOTING WALL A VIEWS</b>
		SCALE: <b>3/8"=1'</b> DRAWN BY: <b>DAR</b> DATE: <b>1-26-06</b> DWG. NO.: <b>3029-03-WALL-A</b> REVISED BY: <b>DAR</b> CHECKED BY: _____
KISTNER CONCRETE PRODUCTS, INC.		PROPRIETARY INFORMATION - ALL RIGHTS OF KISTNER CONCRETE PRODUCTS, INC.