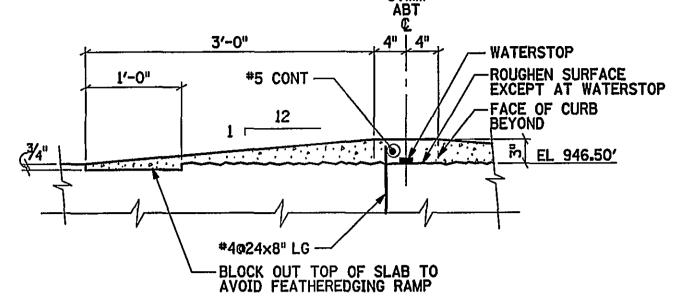


SECTION

SCALE: 1"=1'-0"



**SECTION** SCALE: 1"=1'-0"

#5 CORNER XXXXXX

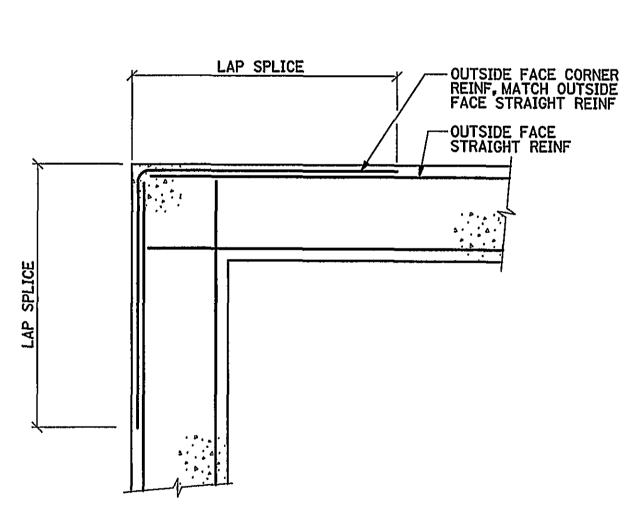
UON EQPT -#4012 W/STD HK EA END SLAB THICKNESS LESS 3", 1'-0" MAX - SEE CIVIL, MECH AND ELEC DWGS FOR SIZE AND LOCATION OF PADS

6" | FACE OF

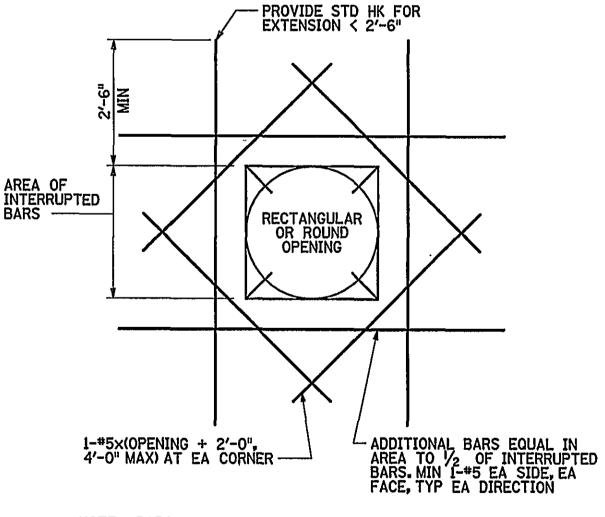
BOND BEAM CORNER DETAIL SCALE: 1"=1'-0"

TYPICAL EQUIPMENT PAD NOT TO SCALE

## UNDERGROUND TANK FOUNDATION SCALE: 1/2"=1'-0"

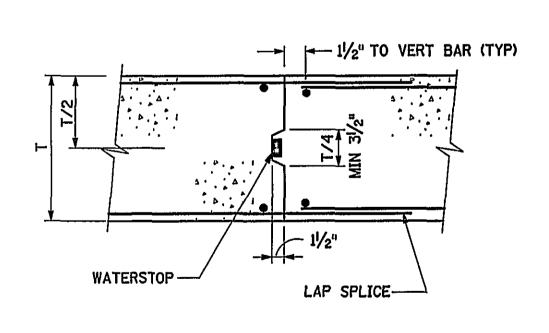


NOTE: VERTICAL REINFORCING NOT SHOWN FOR CLARITY. TYPICAL WALL CORNER PLAN NOT TO SCALE



NOTE: BARS INDICATED ARE NOT REQUIRED AT OPENINGS OF 10" OR LESS.

TYPICAL WALL AND SLAB OPENING DETAIL NOT TO SCALE



NOT TO SCALE

## TYPICAL WALL CONSTRUCTION JOINT

## STRUCTURAL GENERAL NOTES:

- 1. MATERIAL DESIGN STRENGTHS: CAST-IN-PLACE CONCRETE......f'c = 4,000 PSI REINFORCED MASONRY......f'm = 1.500 PSI REINFORCING STEEL. DEFORMED.....fy = 60.000 PSI WELDED WIRE FABRIC.....fy = 60,000 PSI STRUCTURAL STEEL WIDE FLANGES......FY = 50,000 PSI OTHER SHAPES......FY = 36,000 PSI STEEL PIPE......FY = 35,000 PSI
  - TIMBER PILE CAPACITY......20 TONS 2. DESIGN CODES: ACI 318-95 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"
  - AISC "LOAD AND RESISTANCE FACTOR DESIGN SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS". DECEMBER 1, 1993 VIRGINIA UNIFORM STATEWIDE BUILDING CODE (BOCA 1996)

STEEL TUBE......FY = 46.000 PSI

3. DESIGN LOADS: LIVE LOADS:

ROOF (SNOW LOAD)	23 PSF
FIRST FLOOR OPERATING FLOOR	500 PSF
FIRST FLOOR OFFICE AREAS	200 PSF
SECOND FLOOR AND MEZZANINE	100 PSF
STAIRS	100 PSF
WIND LOAD CRITERIA:	

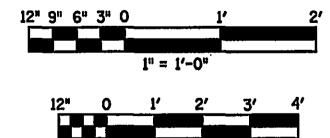
- 4. TIMBER PILES SHALL CONFORM TO ASTM D25 AND SHALL HAVE A MINIMUM TIP DIAMETER OF 6 INCHES. PILES SHALL BE DRIVEN TO OBTAIN A MINIMUM WORKING CAPACITY OF 20 TONS. PROVIDE LOAD TESTS FOR TWO PILES. SEE SPECIFICATION SECTION 02462.
- 5. WHERE REINFORCEMENT SPLICES ARE INDICATED. SPLICE LENGTHS SHALL BE AS FOLLOWS UNLESS OTHERWISE DETAILED:



TOP BARS INCLUDE ALL HORIZONTAL REINFORCING

- 6. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR ALL REINFORCEMENT, UNLESS OTHERWISE NOTED:
  A. CONCRETE CAST AGAINST AND PERMANENTLY
- #6 THROUGH #18 BARS.....2"
- BEAMS AND COLUMNS......11/2"
- 7. PRECAST PRESTRESSED MEMBERS SHALL BE DESIGNED BY THE STRUCTURAL PRECAST CONCRETE SUPPLIER FOR A SUPERIMPOSED LOAD OF 110 PSF AND FOR A DIAPHRAGM SHEAR OF 300 LB/FT.
- 8. ALL CONCRETE BLOCK SHALL BE LIGHTWEIGHT AGGREGATE (115 PCF MAXIMUM).
- 9. GROUT FOR REINFORCED MASONRY SHALL CONFORM TO ASTM C476.
- 10. PLACE GROUT AROUND REINFORCING DURING CONSTRUCTION OF MASONRY. DO NOT PUSH REINFORCING DOWN INTO PREVIOUSLY PLACED GROUT FILL. SET BOLTS SIMILARLY.
- 11. BARS IN MASONRY WALLS MAY BE SPLICED WITH A MINIMUM LAP OF 48 TIMES THE BAR DIAMETER, UNLESS OTHERWISE NOTED. SPLICED REINFORCING BARS SHALL OCCUPY THE SAME CELL AND SHALL BE
- 12. PROVIDE CLEANOUT OPENINGS AT THE BOTTOM OF EACH GROUT LIFT.
- 13. VERTICAL REINFORCEMENT IN MASONRY WALLS SHALL BE SUPPORTED AND SECURED AGAINST DISPLACEMENT AT 4 FOOT MAXIMUM INTERVALS.

IF THIS DRAWING IS A REDUCTION, GRAPHIC SCALE MUST BE USED.



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RECORD DRAWING

DATE: <u>MAY 1, 2003</u>

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(804) 947-1901

2310 LANGHORNE ROAD P.O. BOX 877 LYNCHBURG, VIRGINIA LYNCHBURG, VIRGINIA 24505-0877

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HDR Engineering, Inc.	C
5700 LAKE WRIGHT DRIVE NORFOLK, VIRGINIA 23502 757-222-1500	
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200171.01		REFERENCE STRUCTURAL		
20017	ISO8.DGN	TITLE GENERAL NOTES AND STANDARD DETAILS		
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