

N5 - TRUSS UPLIFT CCONNECTOR TABLE REV-25-AUG-03

6-10dx1/2"

8-8dx1 %

10-10d or 12-10dx

10-10dx1 1/2"

14-10d Sinker

8" Thd Rod

9-8d or 7-10d

14-8d or 11-10d

8"x 16' AB

%"x 16' AB

%"x 16' AB

%"x 16' AB

%"x 16" AB

for each 3000 lb of reaction. Check the minimum um bearing requirements of the truss and top plate (SPF, Fc=425psi=2230lb/ply).

Manufacturer and product number are listed for $\epsilon_{
m br}$ example not endorsement. An equivalent device of the same or other manufacturer

or example not enjoyed from the enjoyed

galvanized after fabrication. Loads are increased sed for wind duration. Strap uplift may be reduced proportionally to number of nails. See spec sheet for alternate nail sizes (10d=.84*84*16d, 10dx1½*=.80*10d, 10d=12d=16d sinker). SPF=.86*SYP

Studs Supporting Trusses: The builder is responionsible for gravity loads, but you should put an extra 2x4 stud under truss bearing location

7-10d

12-10dx1 1/2

To One Member

To Foundation

6-10dx 1½"

8-8dx 1 %

2-10dx 1½"

16-16d Sinker

9-8d or 7-10d

14-8d or 11-10d

8-16d Sinkers

18-10dx 1/2"

2-1/8" Bolts

18-16d

12-16d

7-10d

To Other Member

To Column / Truss

SST catalog to meet truss uplift. Usijse fasteners is specified.

Connecto

Uplift Uplift

SPF SYP

245 350 H5A

535 600 H2.5A

620 720 H10

850 990 LTS12

1245 1450 HTS20

1785 2050 LGT2

3655 4200 MGT

760 885 SP4

865 1005 CS20

1170 1360 SPH4

1420 1650 CS16

1160 1350 LTT19

1985 2310 LTTI31

2385 2775 HD2A

3590 4175 HTT16

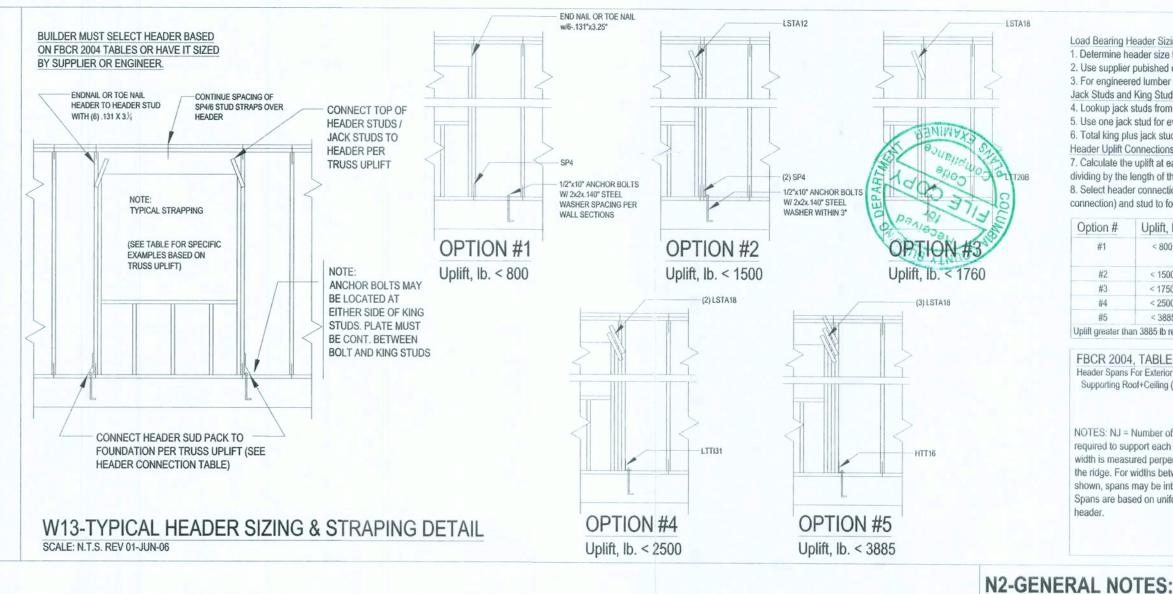
1975 2300 ABU66

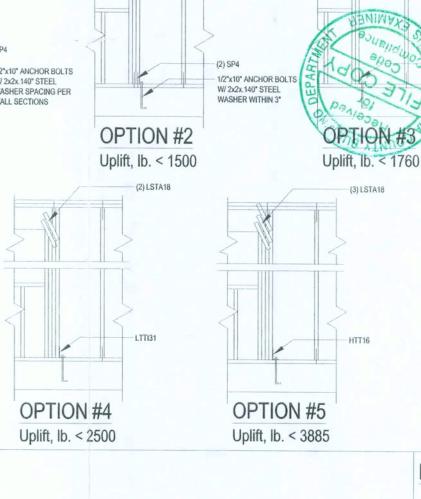
1085 1265 LSTA18-24

SPF SYP Column Ancholo

1265 1470 H16, H16-2

SPF SYP Strap Connectotor





Load Bearing Header Sizing Methods (BY BUILDER) 1. Determine header size from FBCR 2004, Tables R502.5(1) or R5025(2) Use supplier pubished data or Southern pine span tables. 3. For engineered lumber beams have suppliers engineer size beam. Jack Studs and King Studs (BY BUILDER) Lookup jack studs from FBCR 2004, Tables R502.5(1) or R502.5(2

Use one jack stud for every 3000 lb vertical load. Total king plus jack studs = studs needed to be there if no opening vas there.

Header Uplift Connections (BY BUILDER) Calculate the uplift at each end of the header by summing the moments of all truss uplifts and dividing by the length of the header.

Select header connections from table below or mfg. catalog to connect header to stud (top connection) and stud to foundation (bottom connection). Uplift, lb. Top Connector Bottom Connector #1 < 800 End nail or toe nail SP4, 6-10dx12" w/6-.131"x3.25"

	1000	me irrimi re		1.00	(2) 01 1, 0	101	116 W.C.	1 113	1000	
#3	< 1750	LSTA18, 14-10d		1055	LTT20B, 10-1d 1/2" AB			-	1750	
#4	< 2500	(2) LSTA18, 14-10d		2110	LTTI31, 18-10 1/2 "x10" AB			AB	2185	
#5	< 3885	(3) LSTA18, 14-10d		3480	HTT16, 18-16, 3/8"x10" AB				4175	
olift greater th	an 3885 lb requ	uires engineeri	ng desigr	1						
BCR 2004, TABLE R502.5(1)			Header Spans (ft-in)		Building Vdth / Truss Span (ft)					
leader Spans For Exterior Bearing Walls Supporting Roof+Ceiling (20psf+20psf)					20	20		28		
					Span	N.	Span	NJ	Span	
			2	2-2x4	3-6	1	3-2	1	2-10	
			1	2-2x6	5-5	1	4-8	1	4-2	
OTES: N.I = Number of jack stude				200	6 10	4	E 44	2	C.A.	

3-2x8

2-2x10 8-5 2 7-3 2 6-6

3-2x10 10-6 1 9-1 2 8-2

3-2x12 12-2 2 10-7 2 9-5

4-2x8 9-2 1 8-4 1 7-6

4-2x10 | 11-8 | 1 | 10-6 | 1 | 9-5

4-2x12 14-1 1 12-2 2 10-11

8-4 1 7-5 1 6-8

#2 < 1500 LSTA12 10-10d 755 (2) SP4 6-10k1 %" %" AB 1380

required to support each end. Building

the ridge. For widths between those

Spans are based on uniform loads on

width is measured perpendicular to

shown, spans may be interpolated.

FOUNDATION: FOR POINT LOADS GRATER THAN 5000 Ib OR REPETITIVE TRUSS L(ADS GRATER THAN 2000 lb PER TRUSS PROVIDE A THICKENED SLAB OR PAD FOOTING 1'-0"D X 1 sq ftFOR EVERY 1000 lb OF BEARING REINFORCE WITH #5 @ 8" O.C. EACH WAY

CONCRETE: MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS SHAL BE F'c = 3000 PSI. WHERE EXCESS WATER IS ADDED TO THE CONCRETE SO THAT ITS SERVICABILITY IS DEGRADED, THE ATTAINMENT OF REQUIRED STRENGTH SHALL NOT RELEASE THE CONTRACTOR IROM PROVIDING SUCH MODIFICATIONS AS MAY BE REQUIRED BY THE ENGINEER TO PROVIDE A SERVICIABLE MEMBER OR SURFACE. ALL CONCRETE SHALL BE VIBRATED. NO REPAIR OR RUBBING OF CONTRETE SURFACES SHALL BE MADE PRIOR TO INSPECTION BY AND APPROVAL OF THE ENGINEER, OWNER OR HIS REPRESENTATIVE.

WELDED WIRE REINFORCED SLAB: 6" x 6" W1.4 x W1.4, FB = 85KSI, WELDED WIREREINFORCEMENT FABRIC (W.W.M.) CONFORMING TO ASTM A185; LOCATED IN MIDDLE OF THE SLABSUPPORTED WITH APPROVED MATERIALS OR SUPPORTS AT SPACINGS NOT TO EXCEED 3'.

FIBER CONCRETE SLAB: CONCRETE SLABS ON GROUND CONTAINING SYNTHETICFIBER REINFORCEMENT. FIBER LENGTHS SHALL BE 1/2 INCH TO 2 INCHES IN LENGTH. DSAGE AMOUNTS SHALL BE FROM 0.75 TO 1.5 POUNDS PER CUBIC YARD IN ACCORDANCE WITH THI MANUFACTURER'S RECOMMENDATIONS. SYNTHETIC FIBERS SHALL COMPLY WITH ASTM C 1116. THE MANUFACTURER OR SUPPLIER SHALL PROVIDE CERTIFICATION OF COMPLIANCE WITH ASTM C 1116 WIEN REQUESTED BY THE BUILDING OFFICIAL.

CONTROL JOINTS: WHERE SPECIFIED, SAWN CONTROL JOINTS IN SLAB-ON-GRAE SHALL BE CUT IN ACCORDANCE WITH ACI 302. JOINTS SHALL BE CUT WITHIN 12 HOURS OF SLAB PIACEMENT. THE LENGTH / WIDTH RATIOS OF SLAB AREAS SHALL NOT EXCEED 1.5 AND TYPICAL SPACING & CUTS TO BE 12FT, DO NOT CUT WWM OR REINFORCING STEEL. (RECOMMENDED LOCATION OF CONTRC. JOINTS IS SUBJECT TO OWNER AND CONTRACTOR'S APPROVAL. THE CONTROL JOINTS ARE NOT INTINDED TO PREVENT CRACKS BUT RATHER TO ENCOURAGE THE SLAB TO CRACK ON A GIVEN LINE.)

REBAR: ASTM A 615, GRADE 40, DEFORMED BARS, FY = 40 KSI, ALL LAPS SPLICES40 * DB (25" FOR #5 BARS); UNO. ALL REINFORCEMENT SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI 315-95 WITH ACI 315-96 UNLESS NOTED OTHERWISE. ALL TENSION DEVELOPMENT LENGTHS SHALL BE 23 INCHES.

STRUCTURAL CONNECTORS: MANUFACTURERS AND PRODUCT NUMBER FOR COINECTORS, ANCHORS AND REINFORCEMENT ARE LISTED FOR EXAMPLE NOT ENDORSEMENT. AN EQUIVALENT DEVICE OF THE SAME OR OTHER MANUFACTURER CAN BE SUBSTITUTED FOR ANY DEVICES LISTED IN THE EXAMPLE TABLES AS LONG AS IT MEETS THE REQUIRED LOAD CAPACITIES. MANUFACTURE'S INSTALLATION INSTRUCTIONS MUST BE FOLLOWED TO ACHIEVE RATED LOADS.

ANCHOR BOLTS: A-307 ANCHOR BOLTS WITH MINIMUM EMBEDMENT AS SPECIFIE) IN DRAWINGS BUT NO LESS THAN 7" IN CONCRETE OR REINFORCED BOND BEAM OR 15" IN GROUTED CNJ.

WASHERS: WASHERS USED WITH 1/2" BOLTS TO BE 2" x 2" x 9/64"; WITH 5/8" BOLTS TO BE 3" x 3" x 9/64"; WITH 3/4" BOLTS TO BE 3" x 3" x 9/64"; WITH 7/8" BOLTS TO BE 3" x 3" x 5/16"; NO.

NAILS: ALL NAILS ARE COMMON NAILS UNLESS OTHERWISE SPECIFIED OR ACCEPTED BY FBC TEST REPORTS AS HAVING EQUAL STRUCTURAL VALUES.

COVERED PORCH 5'-8 1/2" 25'-1 3/4" 5'-8 1/2" 3030 SH 60 BGD 3050 BH -KITCHEN DINING ROOM MASTER BEDROOM CATHEDRAL CEILING = BEDROOM #3 13'-8 1/2" 10'-9" 3050 SH GREAT ROOM olo 1 1 10 CATHEDRAL CEILING BEDROOM *4 13'-5" BEDROOM #2 0 4-6" 6-6" 0 3-0" 2-0" COVERED PORCH 7'-0" T'-0"

> N3-WINDLOAD ENGINEER'S SCOPE OF WORK: The wind load engineer is engineer of record for compliance of the structure to wind load requirements of FBCR 2004, Section R301.2.1. If trusses are used, the wind load engineer is not engineer of record for the trusses and did not design the trusses or delegate to the truss designer.

> BUILDER'S RESPONSIBILITY: The builder and owner are responsible for the following, which are specifically not part of the wind load engineer's scope of work

> * Confirm that the foundation design & site conditions meet gravity load requirements (assume 1000 PSF bearing capacity unless visual observation or joils test proves otherwise * Provide materials and construction techniques, which comply with FBCR 2004 requirements for the stated wind velocity and design pressures. Provide a continuous load path from roof to foundation. If you believe the plan omits a continuous load path

connection, call the wind load engineer immediately. * Verify the truss engineering includes truss design, placement plans, temporary and permanent bracing details, truss-to-truss connections, and load reactions for all bearing locations. * Select uplift connections, walls, colunns, and footings based on truss engineering bearing locations and reactions;

* Size headers for gravity loads; headers sized by the builder for gravity loads will also satisfy wind loads. DOCUMENT CONTROL and PRIORITY: Structural requirements on S-1 control unless the building code or

architectural sheets have more stringent requirements. Non-structural requirements on architectural sheets control. Specific requirements take precedence over general requirements. Revision control is by the latest signature date and is the responsibility of the builder. OPYRIGHTS AND PROPERTY RIGHTS: Mark Disosway, P.E. hereby expressly reserves

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Stated dimensions supercede scaled limensions. Refer all questions to Mark Disosway, P.E. for resolution. Do not proceed without clarification.

WINDLOAD ENGINEER: Mark Disosway, PE No.53915

CERTIFICATION: The attached plans and "Windload Engineering", sheet S-1, comply with FBCR 2004, Section R301.2.1 wind loads & lateral loads, to the best of my knowledge.

Approved: FLPE#53915

Haake Residence

WINDLOAD ENGINEERING

"EVERYTHING YOU NEED FOR YOUR BUILDING PERMIT"

Mark Disosway P.E.

POB 868, Lake City, FL 32056 Phone: (386) 7:4-5419

Fax: (386) 269-4871 Email: windloadengineer@belsouth.net

Builder: Stanley Crawford Construction

Designer:

Location: Aganon Rd. Hamilton County, Florida

Sheet S-1 of 1 Sheet

Windload Engineering Job # 811121

REV-27-Jul-04

N4-WIND LOAD DESIGN DATA (Wind loads are per FBCR 2004, Section R301.2.1 for enclosed simple diaphragm buildings with mean roof

All connectors are Simpson Strongtigtie, uno. Select top and bottom connections from this table or height less than 60' or the least horizontal dimension; not sited on the upper half of an unobstructed 60' high hill with >10% slope.) To Truss / Rafter Basic Wind Speed 110 MPH Wind Exposure Wind Importance Factor **Building Category** Internal pressure Coefficient N/A (Enclosed Building not in the high velocity hurricane zone Building not in the wind-borne debris region 10-10d or 12-10dx 1 1/2 Mean Roof Height

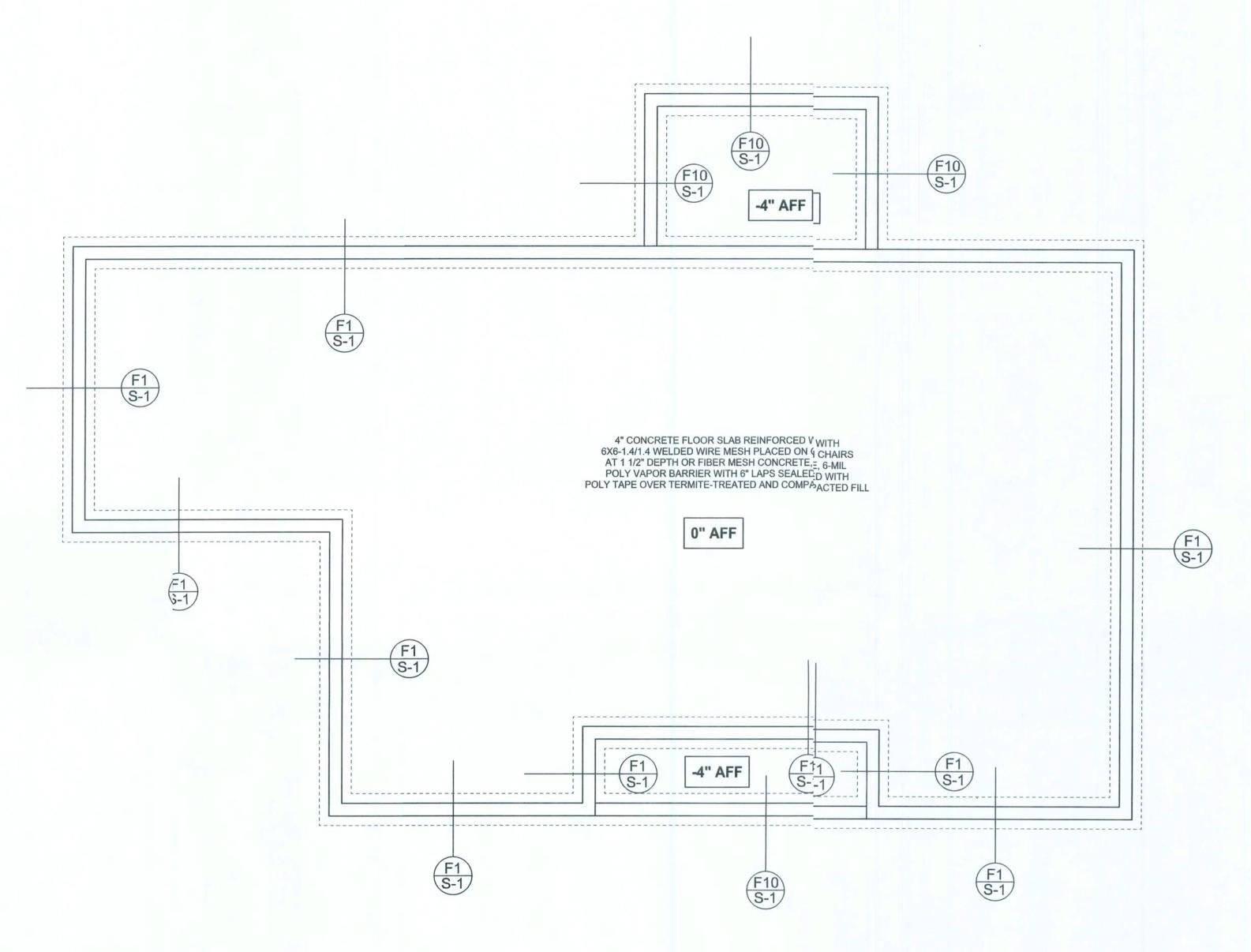
Roof Angle 10-45 degrees Components And Cladding Wind Pressures (FBCR Table R301.2(2) Zone Effective Wind Area (ft2) 4 21.8 -23.6 18.5 -20.4 5 21.8 -29.1 18.5 -22.6 Total Shear Wall Segments 2'-4"min for 8'-0"H wall 2'-10"min for 10'-0"H wall Required 26.88' Actual 60.0'

Transverse Longitudinal 15.44' 77.0' All exterior walls are type II shear walls ACTUAL SHEAR WALL length is the total of all wall segments with full height sheathing and width to height ratio greater than 1: 3.5 (plus special shear wall seaments if noted.) REQUIRED SHEAR WALL length is from WFCM-2001, table 3.17A & 3.17B with table 3.17E adjustment for type II shear wall (or equivalent calculation)

LIMITATION: This design is valid for one building, at specified location This drawing is not valid for construction unless raised seal is affixed.

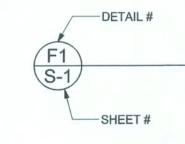
including interior bearing walls.

REV-01-JUN-06



FOUNDATION'LAN SCALE: 1/4" = 1'-0"

DIMENSIONS (N STRUCTURAL SHEETS ARE NOT EXAIT. REFER TO ARCHITECTURAL FLOOR PLAN DR ACTUAL DIMENSIONS



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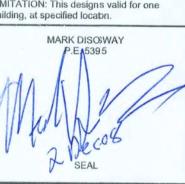
WINDLOAD ENGINEER: Mark Disosway, PE No.53915, POB 868, Laki City, FL 32056, 386-754-5419

DIMENSIONS: dimensions. Refer all questions to Mark Disosway, P.E. for resolution. Do not proceed without chrification.

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of Mark Disosway.

CERTIFICATION: I hereb certify that I have examined this plan, and that the applicable portions of the plan, relating to wind engineering comply vith section R301.2.1, florida building ode residential 2004, to the best of my knowlede.

LIMITATION: This designs valid for one building, at specified locabn.



Stanley Crawford Construction

Haake Residence

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DRAWN BY: STRUCTURAL BY: David Disosway

FINALS DATE: 2Dec08

JOB NUNBER: 811121

DRAWING NJMBER

S-2 OF 2 SHEETS