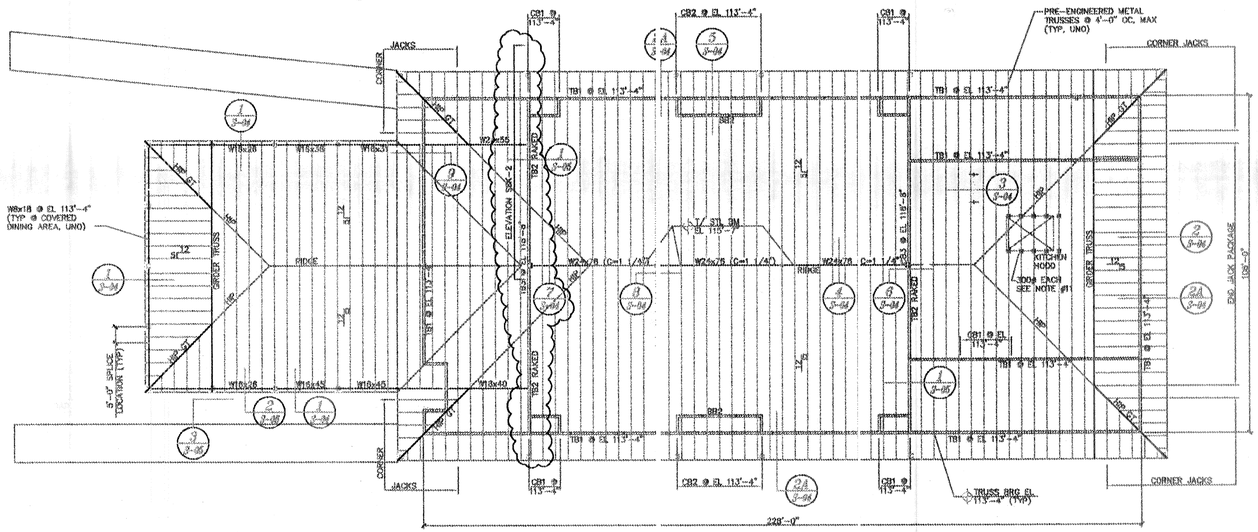
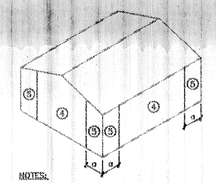


TRUSS DESIGN BASIS

LIVE LOAD (PSF) ON TOP CHORD				DEAD LOAD (PSF)		LATERAL DESIGN BASIS
MEMBER / ROOF SLOPE	TRIBUTARY AREA (SQ FT) 0–200	201–600	OVER 600	TOP CHORD	BOT CHORD	WIND VELOCITY: 110 MPH
RISE LESS THAN 4:12	20	16	12	10	10	IMPORTANCE / USE FACTOR: 1.15
RISE 4:12 TO LESS THAN 12:12	16	14	12			EXPOSURE: "C"
RISE 12:12 AND GREATER	12	12	12			BUILDING CODE: FBC 2000 ASCE 7–98 WIND

NOTES:
1. SEE ROOF FRAMING PLAN FOR CONCENTRATED AND/OR SPECIAL LOADS.
2. TRUSSES SUPPORTING OVERFRAMING SHALL HAVE 5 PSF ADDED TO TOP CHORD DEAD LOAD.
3. AVAILABLE DEAD LOAD TO RESIST WIND UPLIFT FORCES: 10 PSF



NOTES:
1. a = 11 ft.
2. A (Kd) OF 0.85 HAS BEEN USED IN THE DEVELOPMENT OF THESE VALUES. THE USE OF THESE VALUES SHALL ONLY BE APPLIED WHEN USED IN CONJUNCTION WITH LOAD COMBINATIONS SPECIFIED IN SECTIONS 2.3 AND 2.4 OF ASCE 7–98.

ASCE 7–98 WALL DESIGN WIND PRESSURES AND SUCTIONS

FOR MEAN ROOF HEIGHT =60 ft

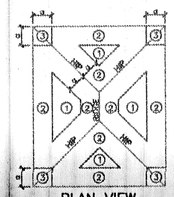
TRIB AREA (SQ FEET)	WIND PRESSURE AND SUCTION (PSF) (+) VALUE DENOTES PRESSURE (–) VALUE DENOTES SUCTION ④	⑤
10	(+) 35 / (–) 37	(+) 35 / (–) 48
20	(+) 33 / (–) 35	(+) 33 / (–) 43
50	(+) 31 / (–) 34	(+) 31 / (–) 39
100	(+) 29 / (–) 32	(+) 29 / (–) 36
200	(+) 28 / (–) 31	(+) 28 / (–) 33
500	(+) 28 / (–) 29	(+) 29 / (–) 29

ROOF FRAMING PLAN — FOOD SERVICE BUILDING

SCALE: 1/16"=1'-0"

ROOF FRAMING PLAN NOTES:

1. ALL TRUSSES SHALL BE DESIGNED AND CERTIFIED BY TRUSS MANUFACTURER'S REGISTERED ENGINEER. ALL TRUSS-TO-TRUSS CONNECTIONS SHALL BE DESIGNED AND SPECIFIED BY THE TRUSS MANUFACTURER.
2. TRUSS MANUFACTURER SHALL VERIFY ALL DIMENSIONS AND SUBMIT SHOP DRAWINGS TO ARCHITECT FOR APPROVAL.
3. SEE ARCHITECTURAL BUILDING SECTIONS, STRUCTURAL FRAMING PLANS AND TRUSS ELEVATIONS FOR ROOF PITCHES (TYP).
4. SEE ARCHITECTURAL BUILDING SECTIONS, WALL SECTIONS AND STRUCTURAL FRAMING PLAN(S) FOR BEARING HEIGHTS.
5. TRUSS SPACING SHALL BE MAX 4'-0" OC (UNO).
6. REFER TO ARCHITECTURAL DRAWINGS FOR FRAMED-DOWN CEILINGS, VOLUME CEILINGS AND OTHER INTERIOR TREATMENTS.
7. ROOF DECK SHALL BE LOADMASTER (OR APPROVED EQUAL) AND HAVE A DIAPHRAGM CAPACITY OF 450 PLF (MIN). SUBMIT SHOP DRAWINGS TO ARCHITECT FOR REVIEW AND APPROVAL. SUBMITTAL SHALL INCLUDE THE DECK ATTACHMENT PATTERN AND DESIGN CALCULATIONS FOR APPROVAL.
8. SEE STRUCTURAL NOTE SHEETS S–N1 & S–N2 FOR BRIDGING REQUIREMENTS FOR METAL TRUSSES.
9. SEE SHEET S–05 FOR BEAM SCHEDULE, TYP.
10. PROVIDE CONT2x8"x16ga BENT > BETWEEN TRUSS TOP CHORDS AT ALL HIP, RISE AND VALLEY LOCATIONS.
11. TRUSS DESIGN IS TO SUPPORT ADDITIONAL LOADS SHOWN THUS ON PLAN "# ".
12. TRUSS DESIGN IS TO SUPPORT EXHAUST AND SUPPLY FANS 400# EACH. SEE MECHANICAL FOR LOCATIONS.



PLAN VIEW (HIP ROOF)

NOTES:
1. a = 11 ft.
2. A (Kd) OF 0.85 HAS BEEN USED IN THE DEVELOPMENT OF THESE VALUES. THE USE OF THESE VALUES SHALL ONLY BE APPLIED WHEN USED IN CONJUNCTION WITH LOAD COMBINATIONS SPECIFIED IN SECTIONS 2.3 AND 2.4 OF ASCE 7–98.

ASCE 7–98 GROSS UPLIFT DESIGN PRESSURES

FOR HIP ROOFS WITH ROOF SLOPE 10° ⇒ θ ⇐30° (MRH =60') (θ = ROOF SLOPE)

TRIB AREA (SQ FEET)	GROSS UPLIFT PRESSURE (PSF) ①	②	③
10	(–) 32	(–) 86	(–) 86
20	(–) 31	(–) 80	(–) 80
50	(–) 30	(–) 52	(–) 52
100	(–) 29	(–) 48	(–) 48

LATERAL DESIGN CRITERIA

WIND VELOCITY: 110 MPH
IMPORTANCE FACTOR: 1.15
EXPOSURE CATEGORY: "C"

ROOF OVERHANGS

ASCE 7–98 GROSS UPLIFT DESIGN PRESSURES

FOR HIP ROOFS WITH ROOF SLOPE 10° ⇒ θ ⇐30° (MRH =60') (θ = ROOF SLOPE)

TRIB AREA (SQ FEET)	GROSS UPLIFT PRESSURE (PSF) ②	③
10	(–) 84	(–) 107
20	(–) 84	(–) 97
50	(–) 84	(–) 83
100	(–) 84	(–) 73

SUBMITTAL

NUMBER	DATE	ISSUE

SEAL

ROOF FRAMING PLAN — FOOD SERVICE BUILDING

S–03

8–5–03 | 02–315

SOUTH LAKE HIGH SCHOOL — ADDITION AND RENOVATIONS
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