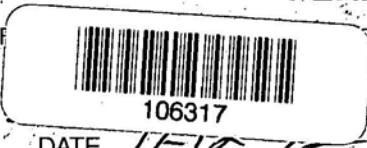


CITY OF LAS VEGAS, NEVADA

PERMIT NO. 92-167201

DEPARTMENT OF BUILDING AND SAFETY
PHONE 229-6251



BUILDING PERMIT
FOR: Single Family Dwelling, Remodel
Additions, Misc. Residential Construction

PLAN CHECK NO. 11-6557 DATE 1/10/92 CONST. VAL. \$ 6000.00 ~~6200.00~~

ADDRESS OF CONSTRUCTION 2025 S. Tenna Wy OWNER Pete Bernhard PHONE 363-2636

LOT(s) _____ BLOCK _____ SUBDIVISION PRK 45 45u 370 SR 602 ZONE RE

PROPOSED CONSTRUCTION Re-roof and re-sheath USE _____

THIS PERMIT FOR BLDG. A/C ELEC. PLBG. OTHER PERMITS REQD: FENCE OFF SITE SWIM POOL

FLOOR AREA BSMT _____ 1ST _____ 2ND _____ GARAGE _____ PORCH _____ TOTAL _____

CONTRACTOR Downey Const STATE LICENSE NO. 0019607 CITY LICENSE NO. 031662

ARCHITECT _____ ENGINEER _____

MASTER PLUMBER/CONTRACTOR _____ MASTER ELECTRICIAN/CONTRACTOR _____

OTHER INSPECTIONS AND FEES

- Inspections outside of normal business hours = \$30.00 per hour (minimum charge three hours);
- Re-inspection fee during normal business hours assessed under provisions of TABLE 3-A of the Uniform Building Code = \$30.00 per hour.
- Inspections during normal business hours for which no fee is specifically indicated = \$30.00 per hour (minimum charge one half hour).
- Additional plan review required by changes, additions, or revisions to approved plans = \$30.00 per hour (minimum charge two hours).

CONDITIONS OF THE PERMIT:

- I agree to call the City Building Department for inspections before concrete is poured, before rough wiring, electrical, plumbing, framing is covered. Also for air conditioning, drywall and sheathing inspection.
- I agree that when the job is completed that I will call for final inspection before occupancy.
- I agree to perform all construction in accordance with City Ordinances and Building Codes.
- The Contractor's signature below denotes authority from the owner to sign in his behalf and that the owner is aware of all requirements of this application and permit. Separate permits must be taken out for work outlined above this agreement.
- I have read and understand the contents of this application and permit; I hereby state that the information I have supplied on this application is true and correct.
- Approval for the work under this permit will be given only after refuse and debris have been removed from job site and public right of way.
- 24 HOUR MINIMUM NOTICE REQUIRED FOR INSPECTIONS.

SPECIAL CONDITIONS:
re-roof only
All calls
4200 #
+ \$2000.00 / re-sheath

BY: Bob L. Downey
I HEREBY DECLARE THAT I AM THE LEGAL OWNER OF THE ABOVE PROPERTY OWNER
BY: _____ AGENT

I hereby certify that I have reviewed this application and the proposed plans and have found that the proposed development meets the requirements of the City of Las Vegas Flood Hazard Reduction Ordinance for the issuance of this Development Permit.

LAND DEVELOPMENT AND FLOOD CONTROL ENGINEER		DATE	ELECTRICAL		FEE
<u>[Signature]</u>		<u>1/10/92</u>	RECEPTACLE _____ SWITCH _____		.45
<u>[Signature]</u>		<u>1/16/92</u>	EACH LIGHT FIXTURE OR SOCKET _____		.35
<u>[Signature]</u>			SPECIAL OUTLET, APPLIANCE ETC.		.75
<u>[Signature]</u>			SERVICE/PANEL - SUB/3.25 - 200A/6.45 - 400A/13.40		
<u>[Signature]</u>			A.C. UNIT OR MOTORS	3.25	
PLUMBING		FEE	2310 - 2432	TOTAL	
WATER DISTRIBUTION	6.00		MISC.		
SEWER SYSTEM - NEW OR MODIFICATION	10.00		<u>zone</u>	<u>400</u>	
FIXTURES - WATER SOFTENER, H.W. HEATER	2.00		2310 - 2431 PLAN REVIEW	<u>85.00</u>	
GARBAGE DISPOSAL - WASHER	2.00		2310 - 2401 BLDG. PERMIT	<u>11/16/92</u>	
FUEL PIPING	6.00		7143 - 2973 SEWER CONNECTION		
IRRIGATION SYSTEM	8.00		6122 - 3352 TORTOISE		
MISC.			_____ - 2897 P.I.F.		
2310 - 2433	TOTAL		88100-1232 TRANSPORT		
AIR CONDITIONING		FEE	TOTAL FEES	<u>8900</u>	
NEW UNIT - 3 TON = 9.00 OVER = 16.50					
FURNACE TO 100,000/9.00 OVER/11.00					
VAPORATIVE COOLER	6.95				
VENTILATION FAN	2.55				
2310 - 2435	TOTAL				

RECEIPT
MUST BE MACHINE VALIDATED

0002
ZONE 4.00
SFD 85.00
CHEK 89.00
7221A000 13:11

PERMIT NO. _____

PROJECT

ROOF TRUSS

PROJECT NO. 92-213

CLIENT

Downey Construction

SHEET

1

OF

5

BY

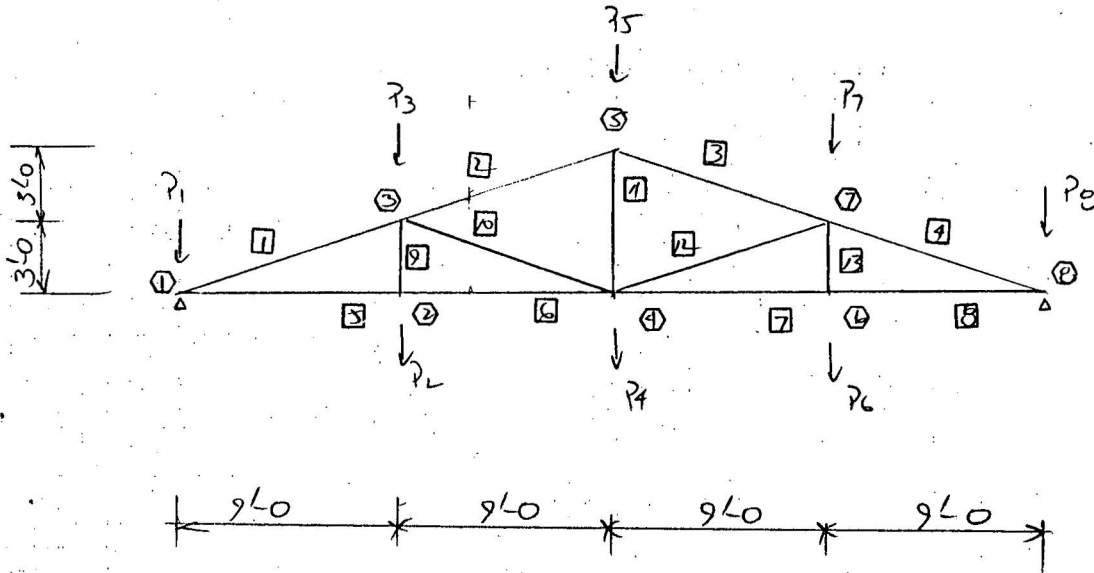
JK

DATE

11/14/92

CHECK BY

DATE



TRUSSES e 2' OC SLOPE 4:12

LOADS

LIVE

$9LL = 160 \text{ psf}$

DEAD

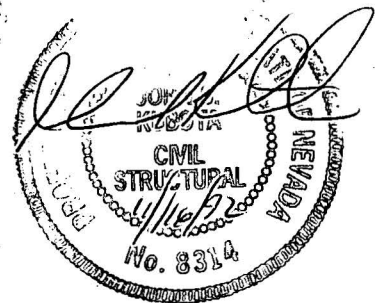
TOP CHORD

7	psf	Eile
2		Plywood
2		FRAMING

$9TL = \frac{11}{\cos 18.35} = 11.6 \text{ psf}$

Bottom CHORD

1	psf	framing
2		ceiling
2		MISC
<hr/>		
5	psf	



$w_{TC} = 55 \text{ #/ft}$

$w_{TL} = 10 \text{ #/ft}$

PROJECT

ROOF TRUSS

PROJECT NO. 92-713

CLIENT

SHEET

2

OF

BY

JK

DATE

11/14/92

CHECK BY

DATE

$$P_1 = 9\left(\frac{1}{2}\right)[55+10] = P_8 = 292\#$$

$$P_2 = 9\left(\frac{1}{2}\right)(10) = P_6 = 90\# = P_4$$

$$B = 9\left(\frac{1}{2}\right)(55) = P_7 = P_5 = 495$$

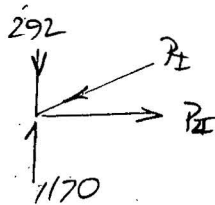
$$\Sigma P = 2340\# \rightarrow R = 1170\#$$

TOP & BOT CHORD

DF #1

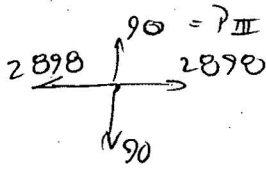
VERTS & DIA

DF STANDARD



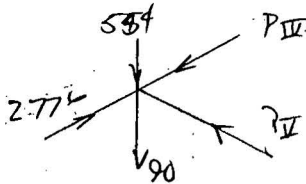
$$\Sigma F_y = 0 = 1170 - 292 - P_I \sin(18.43) \Rightarrow P_I = 2776\#$$

$$\Sigma F_x = 0 = -2776 \cos(18.43) + P_{II} \Rightarrow P_{II} = 2634\#$$



$$\Sigma F_y = 0 = (2776 - P_{IV}) \sin(18.43) - 495 - 90 + P_V \sin(18.43)$$

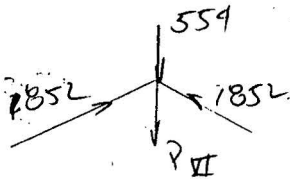
$$1850 = 2776 - P_{IV} + P_V \Rightarrow P_V = P_{IV} - 926$$



$$\Sigma F_x = 0 = (2776 - P_{IV} - P_V) \cos(18.43)$$

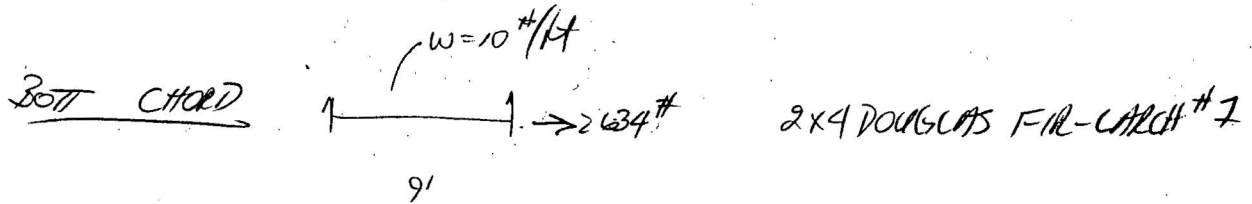
$$\text{OR } 2776 - P_{IV} - P_V + 926 = 0 \Rightarrow P_{IV} = 1852\#$$

$$P_V = 926\#$$



$$\Sigma F_y = 0 = 1852(2) \sin(18.43) - 495 - P_{VI}$$

$$P_{VI} = 676\#$$

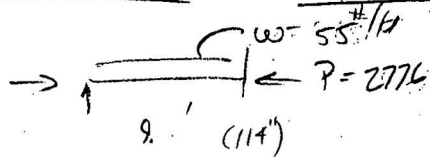


$$f_c = \frac{2634}{525} = 502 \text{ psi} < F_c = 1.25(1050) = 1310 \text{ psi}$$

$$M = 1.5(9)^2(10) = 1215 \text{ #ft} \rightarrow f_b = 397 \text{ psi} < F_b = 1.25(2050) = 2560 \text{ psi}$$

$$\frac{f_b}{F_c} + \frac{f_b}{F_b - f_c} = 383 + .198 = \underline{.581} < 1.0 \text{ OK}$$

TOP CHORD $2 \times 4 \text{ DOUGLAS FIR-LARCH #1 (CONT)}$



$$f_a = 529 \text{ psi} < F_c = 1108 \text{ psi}$$

$$K \frac{P}{A} = \frac{28.1(12)}{3.5} = 24.69 \rightarrow F_c = (880 \text{ psi})(1.25)$$

$$K = \left[\frac{1800}{1.560} \right]^{0.671} = 22.77 < \frac{P}{A} \quad J = 1.0$$

$$M = 1.5(9)^2(55) = 6682 \text{ #ft}$$

$$F_b = 2560 \text{ psi}$$

$$f_b = 2184 \text{ psi} < F_b$$

$$\frac{f_a}{F_c} + \frac{f_b}{F_b - f_c} = .478 + 1.075 = \underline{1.553} > 1.0$$

$w / l \leq 6 / 9$

$$M = 3759 \text{ #ft}$$

$$f_b = 1228 \text{ psi} < F_b$$

$J = 1.0$

$$P / A = 23.147 > K \rightarrow F_c = (1008 \text{ psi})(1.25) = \underline{1260 \text{ psi}} > f_c = 529 \text{ psi}$$

$$\frac{f_a}{F_c} + \frac{f_b}{F_b - J f_c} = .420 + .604 = \underline{1.024} < 1.0 \text{ OK}$$

11/11/72

PROJECT _____

RT

PROJECT NO. 92-213

CLIENT _____

SHEET _____

4

OF _____

BY _____

JK

DATE _____

11/14/72

CHECK BY _____

DATE _____

vert $P_4 = 734^{\#}$ $f_t = 140 \text{ ksi}$ $< F_c = 1.25(350) = \underline{438 \text{ ksi}}$ ok

dia $P_a = 7010^{\#}$ $f_c = 1940 \text{ psi}$

$F_c'' = 11550 \text{ psi}$ $E = 1500 \text{ ksi}$ $K = 24.18$

$\lambda/A = \frac{11.4}{1.5} = 76 < 50$ NEED LATERAL BRACING

$$200 = \frac{0.3(1500,000)}{\left(\frac{76}{1.5}\right)^2} \Rightarrow l_1 = 31.6''$$

EXISTING IS w/ WD SHARE

$W_u = 32 \#/ft$ $w_{DL} = 12.6 \#/ft \Rightarrow w_{TL} = 44.6 \#/ft$ TOP CHORD
 2×6 $7.7'$
 \downarrow \rightarrow 603
 \uparrow $R = 983 \#$

$F_u = 1148 \text{ psi} < F_u = 1108 \text{ psi}$ $J = 1.0$

$M = 6038 \text{ in}^{\#}$ $F_b = 1993 \text{ psi} < F_b = 2650$

$\frac{F_u}{F_u} + \frac{F_b}{F_b - F_u} = .134 + .818 = .952 < 1.0$

existing is ok

ADD 2x4 DF-L#1 TO ALL TOP CHORDS

$P = 2776 \#$ $A = 1.5(5.25) = 7.875 \text{ in}^2$ $F_u = 353 \text{ psi}$

$F_u = 1108 \text{ psi} > F_u$ $J = 1.0$

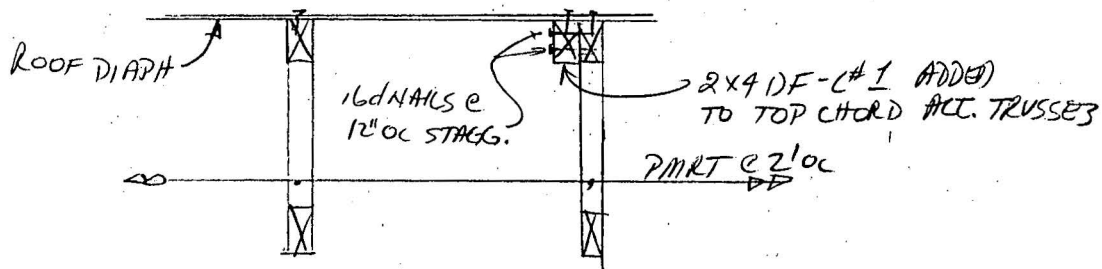
$M = 6682 \text{ in}^{\#}$ $S = 1.5(3.06) = 4.59 \text{ in}^3$ $F_b = 1456 \text{ psi}$

$F_b = 2560 \text{ psi} > F_b$

$\frac{F_u}{F_u} + \frac{F_b}{F_b - F_u} = .319 + .660 = .978 < 1.0$ ok

SO ADDING A 2x4 TO ALTERNATE TOP CHORDS WORKS

NAIL 2x4 DF-L#1 TO EXISTING 2x4 DF-L#1 TOP CHORD
w/ 16d NAILS @ 12" OC STAGGERED



<input checked="" type="checkbox"/> PERMIT NUMBER	92-167201	INSPECTION NUMBER	10
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JOB ADDRESS: 2025 S TENAYA WY

LOT NO.	BLOCK NO.	SUBDIVISION NAME
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FIRE DEPT. MAP NO.	JOB PHONE	CALL-IN DATE	CALL-IN TIME	SCHEDULE DATE
2518-65	378-7080	11/23/92	10:34	11/24/92

INSPECTOR NO.	INSPECTOR NAME
57	HOWARD STUART Carson 68

INSPECTION REQUESTED: ROOF SHEATHING (107)

Root Trusses supported with new framing per eng. Calcs by John S. Kubota

<input type="checkbox"/> PARTIAL INSPECTION	<input type="checkbox"/> PARTIAL APPROVAL (P)	PARTIAL DESCRIPTION
---------------------------------------------	-----------------------------------------------	---------------------

<input checked="" type="checkbox"/> APPROVED (A)	<input type="checkbox"/> STOP WORK (S)	<input checked="" type="checkbox"/> COMMENTS (C)	<input type="checkbox"/> TEMPORARY APPROVAL (T) - UNTIL	<input type="checkbox"/> HOLD (H)
--------------------------------------------------	----------------------------------------	--------------------------------------------------	---------------------------------------------------------	-----------------------------------

<input type="checkbox"/> REJECTED (R)	REINSPECTION REQUIRED - CALL * 229-2071	<input type="checkbox"/> PERMIT REQUIRED
<input type="checkbox"/> REFEE (F)	REINSPECTION FEE REQUIRED - PAY AT CITY HALL 3RD FLOOR - 400 E. STEWART STREET.	

INSPECTOR SIGNATURE	INSPECTION DATE
John Carson	112492

<input type="checkbox"/> PROJECT COMPLETE	BRING HARD CARD WITH FIRE, QUALITY CONTROL & PLANNING APPROVALS SIGNED OFF TO BLDG & SAFETY FOR C. OF O. ISSUANCE (Commercial Only)
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IF YOU HAVE ANY QUESTIONS ON THIS INSPECTION, YOU MAY CALL THE INSPECTOR FROM 7:00 A.M. - 7:15 A.M. OR 2:45 P.M. - 3:00 P.M. AT 229-6765