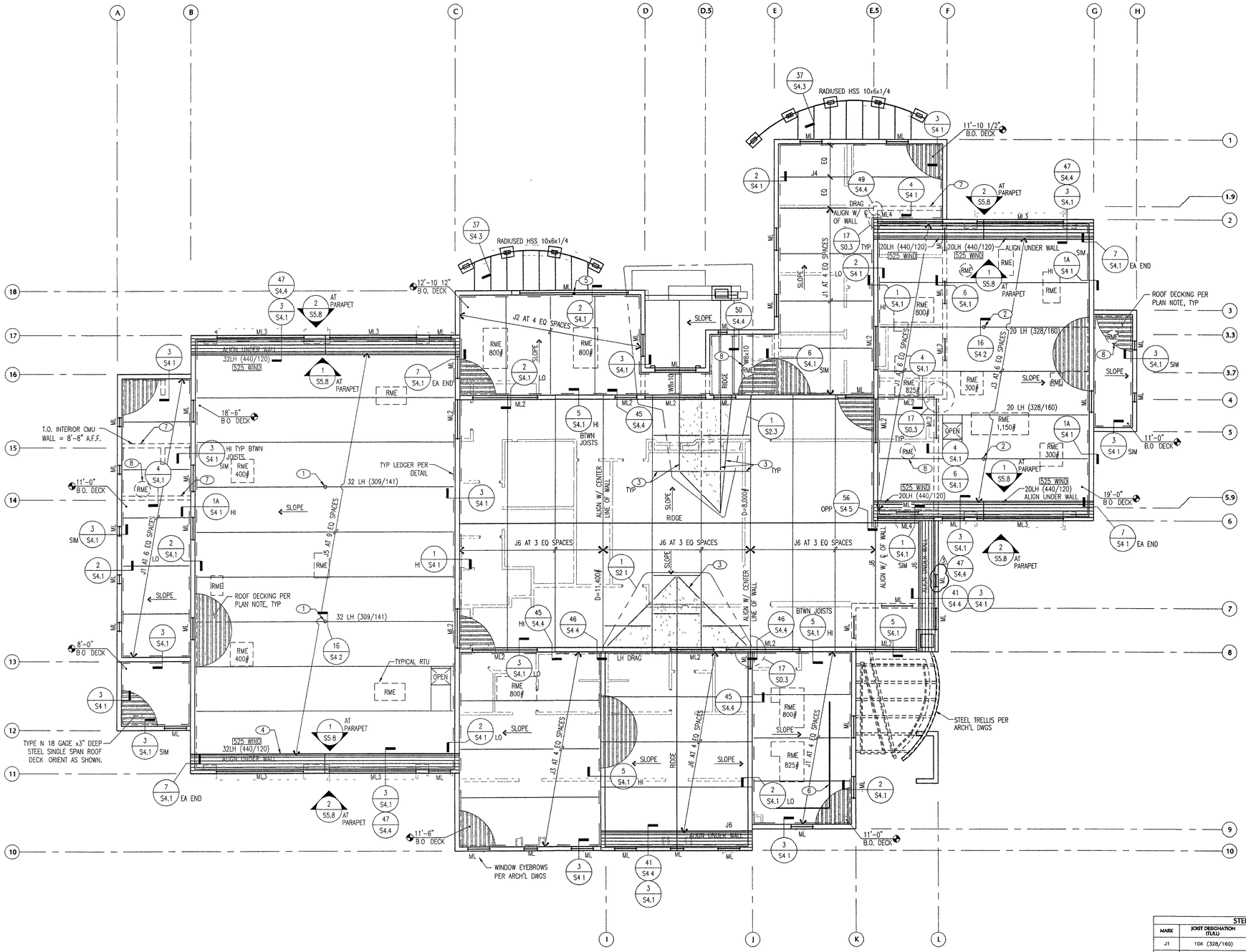
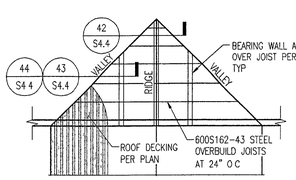


ROOF FRAMING PLAN

SCALE: 1/8"=1'-0"



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1 OVERBUILD FRAMING PLAN

NO SCALE

ROOF FRAMING PLAN NOTES

1. CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO CONSTRUCTION. RESOLVE ANY DISCREPANCIES W/ ARCHITECT. VERIFY ALL ROOF SLOPES W/ ARCHITECT PRIOR TO CONSTRUCTION.
2. TYP ROOF DECKING SHALL BE HSB 20 GAGE x1 1/2" DEEP STEEL ROOF DECK. PROVIDE TWO SPAN MIN, UNO ON PLANS
3. PROVIDE CONT BOND BEAM W/ REINF AT ROOF LINE AND TOP OF PARAPET PER GSN.
4. "B.O. DECK" INDICATES BOTTOM OF STEEL DECK ELEVATION. VERIFY ALL ELEVATIONS W/ ARCHITECTURAL DRAWINGS
5. "RME" INDICATES ROOF MOUNTED EQUIPMENT. JOIST DESIGNER SHALL DESIGN JOISTS FOR WEIGHT AS INDICATED ON PLANS. (WHICH INCLUDES MAX OPERATING WT PLUS 100# CURB ALLOWANCE) PROVIDE FRAMING BELOW ROOF MOUNTED EQUIPMENT PER DETAIL 20/S0 3 AND AROUND ROOF OPENINGS PER DETAIL 9/S0 2 FRAMING NOT SHOWN ON PLAN FOR CLARITY.
6. "J1", "J2", . . . INDICATES STEEL JOISTS PER STEEL JOIST SCHEDULE.
7. "ML", "ML1", "ML2", . . INDICATES MASONRY LINTEL TYPES, SEE MASONRY LINTEL SCHEDULE THIS SHEET.
8. SHADED AREA DENOTES OVERBUILD LOCATION
9. AT STEEL JOISTS ALIGNED BELOW PARAPET WALLS POCKET IN CMU WALL PER 7/S4 1
10. "D=" INDICATES MAGNITUDE OF SEISMIC AXIAL FORCE TO BE DESIGNED INTO JOIST IN APPROPRIATE LOAD COMBINATION
11. PROVIDE TYPE I HOOD AND UNIT HEATER SUPPORT PER MECHANICAL DRAWINGS IN ADDITION, PROVIDE 3/8" DIA THREADED ROD BRACE AT APPROX. 45 DEGREE ANGLE IN TWO ORTHOGONAL DIRECTIONS FROM HOOD AND UNIT HEATERS TO STRUCTURE ABOVE OR ADJACENT STRUCTURAL WALL. ANCHOR ROD BRACE W/ UNISTRUT

ROOF FRAMING PLAN KEYNOTES

1. STEEL COLUMN PER TRELLIS FRAMING PLAN. UP ONLY JOIST DESIGNER SHALL DESIGN JOIST FOR A 6 0 KIP DEAD LOAD AND A 2.2 KIP LIVE LOAD
2. STEEL COLUMN PER TRELLIS FRAMING PLAN. UP ONLY. JOIST DESIGNER SHALL DESIGN JOIST FOR A 3 9 KIP DEAD LOAD AND A 1 5 KIP LIVE LOAD
3. L4x4x3/8 ANGLE ALIGNED BENEATH RIDGE AND VALLEY BEARING WALLS. (6'-0" MAX SPAN)
4. BRACE JOIST BOTTOM CHORD PER DETAIL 47/S4.4, TYP AT ALL JOISTS SUPPORTING PARAPET WALL
5. STEEL COLUMN AT LINTEL PER DETAIL 48/S4 4
6. MECHANICAL UNIT SCREEN. REFER TO DETAIL 18/S4 2
7. MECHANICAL DUCTWORK OPENING THIS WALL. FIELD LOCATE EXACT LOCATION. COORD SIZE W/ MECHANICAL DWG AND TYPICAL DETAIL 8/S0.2.
8. AT EXHAUST FAN SUPPORT, PROVIDE L3x3x1/4 ANGLES EA SIDE OF UNIT SPANNING TO LEDGER AND/OR JOISTS

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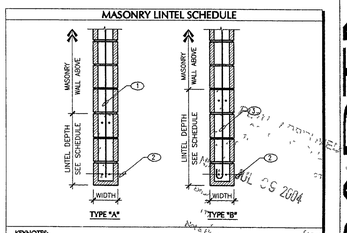
STEEL JOIST SCHEDULE

MARK	JOIST DESIGNATION (TAU)	SEISMIC FORCE (KIPS)	TYPE
J1	10K (328/160)	8 5	PARALLEL CHORD
J2	12K (328/160)	8 5	PARALLEL CHORD
J3	16K (328/160)	8.5	PARALLEL CHORD
J4	20K (328/160)	8.5	PARALLEL CHORD
J5	28K (309/141)	8.5	PARALLEL CHORD
J6	LH (384/160)	8.5	GABLE
J7	2.5K (205/100)	--	2 5 K SERIES
J8	LH (384/160)	8.5	SINGLE PITCH GABLE
--	--	--	--

NOTES:

A JOISTS SHALL BE SPACED 8'-0" O C MAX
B JOIST BRIDGING SHALL BE DESIGNED, SPECIFIED AND PROVIDED BY JOIST MFR NOT SHOWN FOR CLARITY
C IN ADDITION TO THE LOADS SPECIFIED ON THE CSN, ALL STEEL JOISTS SHALL BE DESIGNED FOR A SEISMIC TENSION OR COMPRESSION AXIAL FORCE (ALLOWABLE STRESS DESIGN FORCE) PER SCHEDULE TO BE TRANSFERRED THROUGH THE BEARING SEAT INTO THE JOIST TOP CHORD IN THE APPROPRIATE CODE LOAD COMBINATION
D. STEEL JOISTS SHALL ALSO BE DESIGNED FOR A 500 LB LIGHTING POINT LOAD TO BE APPLIED AT ANY LOCATION ALONG BOTTOM CHORD, IN ADDITION TO THE ACTUAL MECHANICAL RTU LOADS, SEE MECHANICAL
E 525 WIND INDICATES UPWARD OR DOWNWARD WIND LOAD IN PLF TO BE APPLIED TO JOIST IN APPROPRIATE LOAD COMBINATION
F SEISMIC AXIAL FORCE IN TABLE IS STRENGTH DESIGN FORCE AND HAS BEEN FACTORED UP FOR STEEL ELEMENTS BY 1 4 TIMES PER IBC SECTION 1620 3 1

MASONRY LINTEL SCHEDULE



KEYNOTES:

1 TYP VERT WALL REINFORCING
2 HORIZ REINFORCING PER SCHEDULE
3 VERT REINFORCING PER SCHEDULE W/ 180° HOOK BOTTOM AROUND HORIZ LINTEL REINFORCING. STAGGER HOOK DIRECTIONS. EXTEND 48 BAR DIAMETER ABOVE LINTEL IN GROUTED CELL

NOTES:

A ML1, ML2, ML3 . INDICATES MASONRY LINTEL.
B. STANDARD WALL REINFORCING SHALL CONTINUE THROUGH LINTEL BEAMS.
C. ALL LINTELS AND 24" MIN OF ADJACENT WALLS SHALL BE GROUTED SOLID, UNO
D WHERE HORIZONTAL REINFORCING CAN'T EXTEND 2'-0" BEYOND OPENING, PROVIDE 90 DEG STD HOOK
E. ANY SPLICES IN TOP BARS, BOTTOM BARS, OR TIES SHALL HAVE A MINIMUM LENGTH OF 72 BAR DIAMETERS
F SOLID GROUT LINTEL DEPTH MIN ABOVE OPENING

MARK	SIZE WIDTH	SIZE DEPTH	HORIZONTAL REINFORCING	VERTICAL REINFORCING	TYPE
ML*	8"	24" MIN	(2) #5 CONT BOTTOM	TYP WALL	A
ML1*	8"	24"	(2) #5 CONT TOP (2) #5 CONT BOTTOM	#4 AT 16" O C	B
ML2*	8"	40"	(2) #5 CONT BOTTOM	TYP WALL	A
ML3*	16"	40"	(4) #5 CONT T&B	PER DETAIL	B
ML4*	8"	48"	(2) #5 CONT BOTTOM	TYP WALL	A

* ALL MASONRY LINTELS SHALL HAVE SPECIAL INSPECTION AS OUTLINED IN THE INSPECTION SECTION OF THE GSN

REVISIONS
1 PLANS CHECK 5/12/04
2 ARCH'L REVISION 6/10/04

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DEPARTMENT OF PUBLIC WORKS

CITY OF LAS VEGAS
FIRE STATION #8
805 N. MOJAVE RD. LAS VEGAS, NV 89101

ROOF FRAMING PLAN

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STATE OF NEVADA REGISTERED PROFESSIONAL ENGINEER STEVEN A. SCOTT CIVIL/STRUCTURAL

JUN 10 2004

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
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DRAWN	JDB
FILE	LV03191
DATE	4/9/04
SCALE	1/8"=1'-0"
BID NO	-
CLV DWG NO	-
SHT NO	S2.1

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