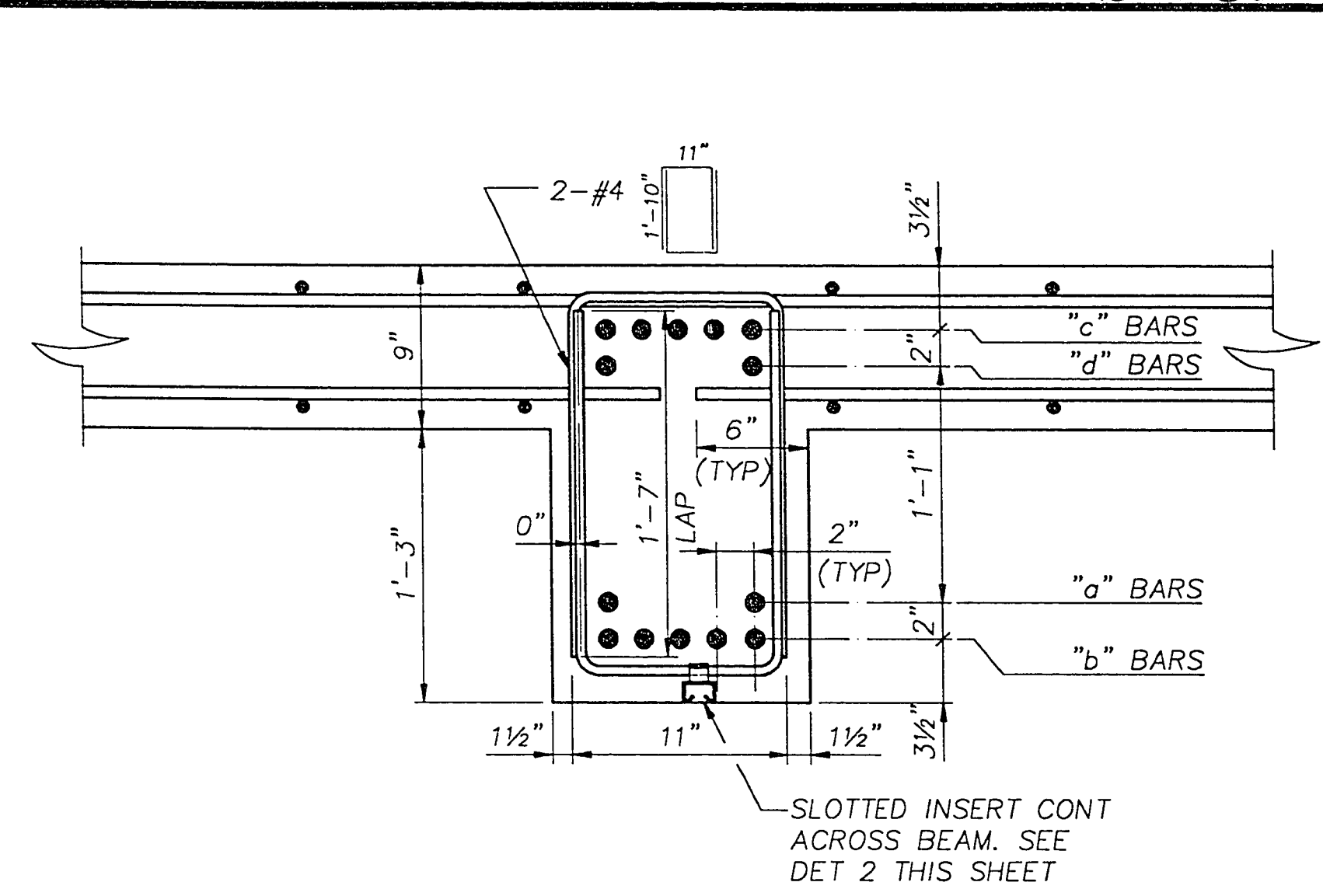


**NORTH-SOUTH BEAM (1'-2" WIDE)**



**EAST-WEST BEAM (1'-2" WIDE)**

- NOTES:**
- INTERIOR TOP BARS IN THE BEAM SCHEDULE ARE THOSE LOCATED AT SUPPORTS WHERE BEAMS ARE CONTINUOUS ACROSS THE SUPPORT.
  - STIRRUP SPACINGS (S) INDICATED IN THE SCHEDULES START AT THE FACE OF THE SUPPORT. IN ADDITION TO ALL SCHEDULED STIRRUPS, PROVIDE ONE ADDITIONAL STIRRUP AT 1/2 THE FIRST SCHEDULED SPACING AT EACH FACE OF EACH SUPPORT.

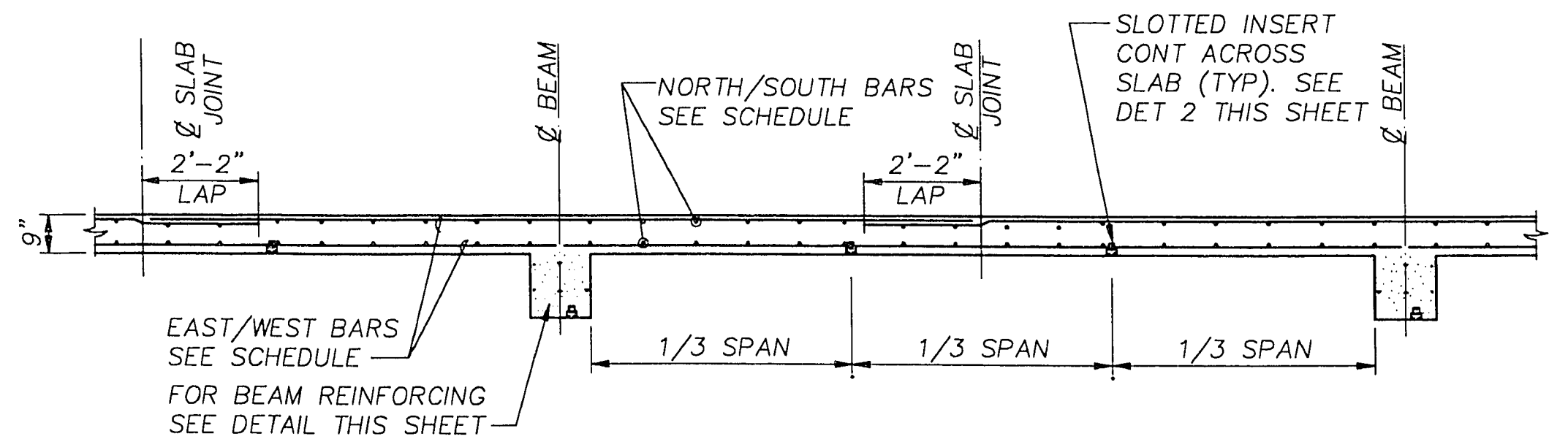
**SECTION**  
1 1/2"=1'-0"

MARK	SIZE	BOTTOM BARS				INTERIOR TOP BARS		EXTERIOR TOP BARS		STIRRUPS		REMARKS		
		W	D	"a"	"b"	L3	L4	"c"	"d"	L1	L2*		SIZE	SPACING (S)
B-1	14" 24"	2-#10	4-#8	2'-0"	2'-0"	-	-	4-#5	-	5'-0"	-	#4	6"	
B-2	12" 18"	-	4-#5	-	-	-	-	-	-	-	-	#3	12"	SEE SECTION "B" THIS SHEET
B-3	14" 24"	-	4-#8	-	-	-	-	4-#5	-	5'-0"	-	#4	10"	
B-4	12" 18"	-	4-#5	-	-	-	-	2-#5	-	-	-	#4	12"	SEE SECTION "C" THIS SHEET
B-5	14" 24"	2-#10	4-#8	2'-0"	2'-0"	4-#8	2-#8	8'-2"	4-#5	5'-0"	-	#4	6"	
B-6	14" 24"	-	4-#5	-	-	4-#8	2-#8	8'-2"	-	-	-	#4	10"	
B-7	14" 24"	-	4-#8	-	-	4-#8	2-#8	8'-2"	-	-	-	#4	10"	
B-8	14" 24"	2-#8	2-#8	4'-6"	4'-6"	4-#8	2-#8	4'-7"	-	-	-	#4	8"	
B-9	14" 24"	2-#8	3-#8	1'-3"	1'-3"	4-#8	2-#8	4'-0"	4-#5	-	-	#4	8"	

\*WHEN NO DIMENSION IS SHOWN FOR L2, TOP BARS ARE TO BE CONTINUOUS.

**NOTE:**  
SEE TYPICAL BEAM REINFORCING DETAIL ABOVE AND SECTION "A", THIS SHEET FOR EXPLANATION OF BEAM SCHEDULE NOTATIONS.

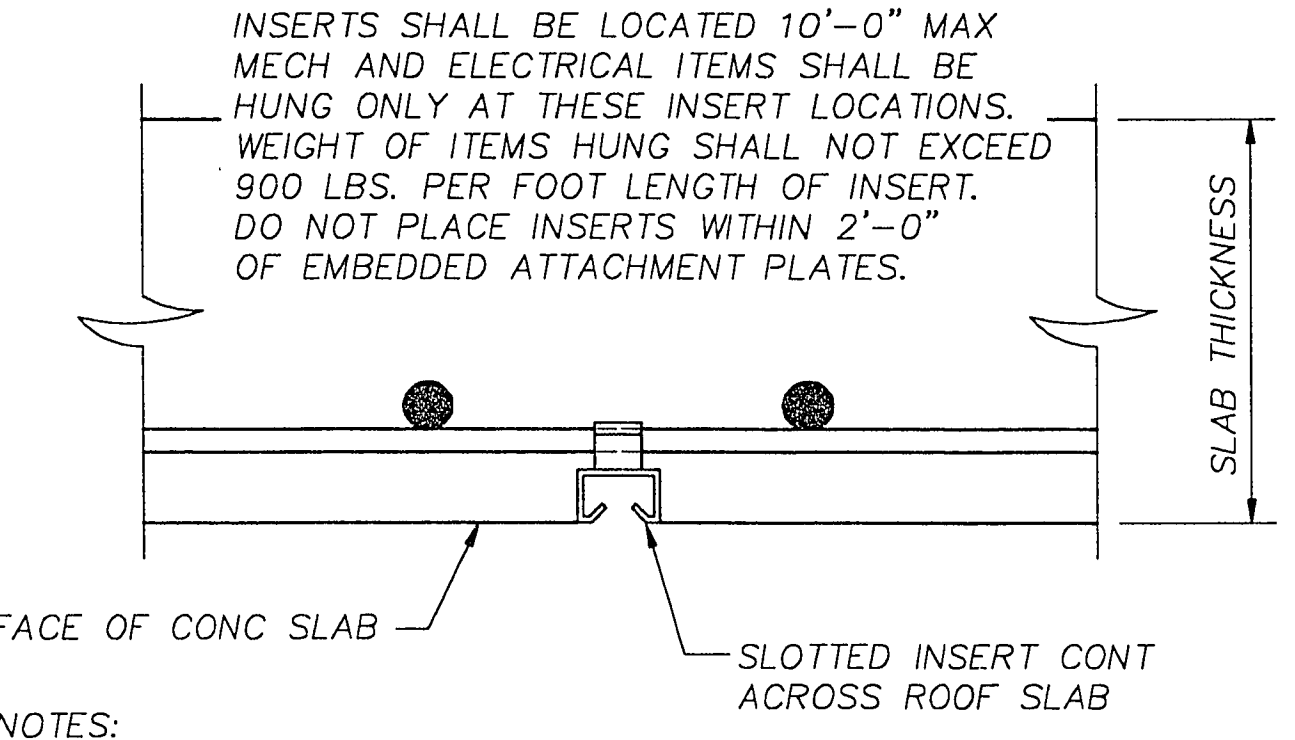
**BEAM DETAIL**



MARK	DEPTH	NORTH/SOUTH REINFORCEMENT		EAST/WEST REINFORCEMENT	
		BOTTOM	TOP	BOTTOM	TOP
S-1	9"	#5@12"	#5@12"	#5@12"	#5@12"

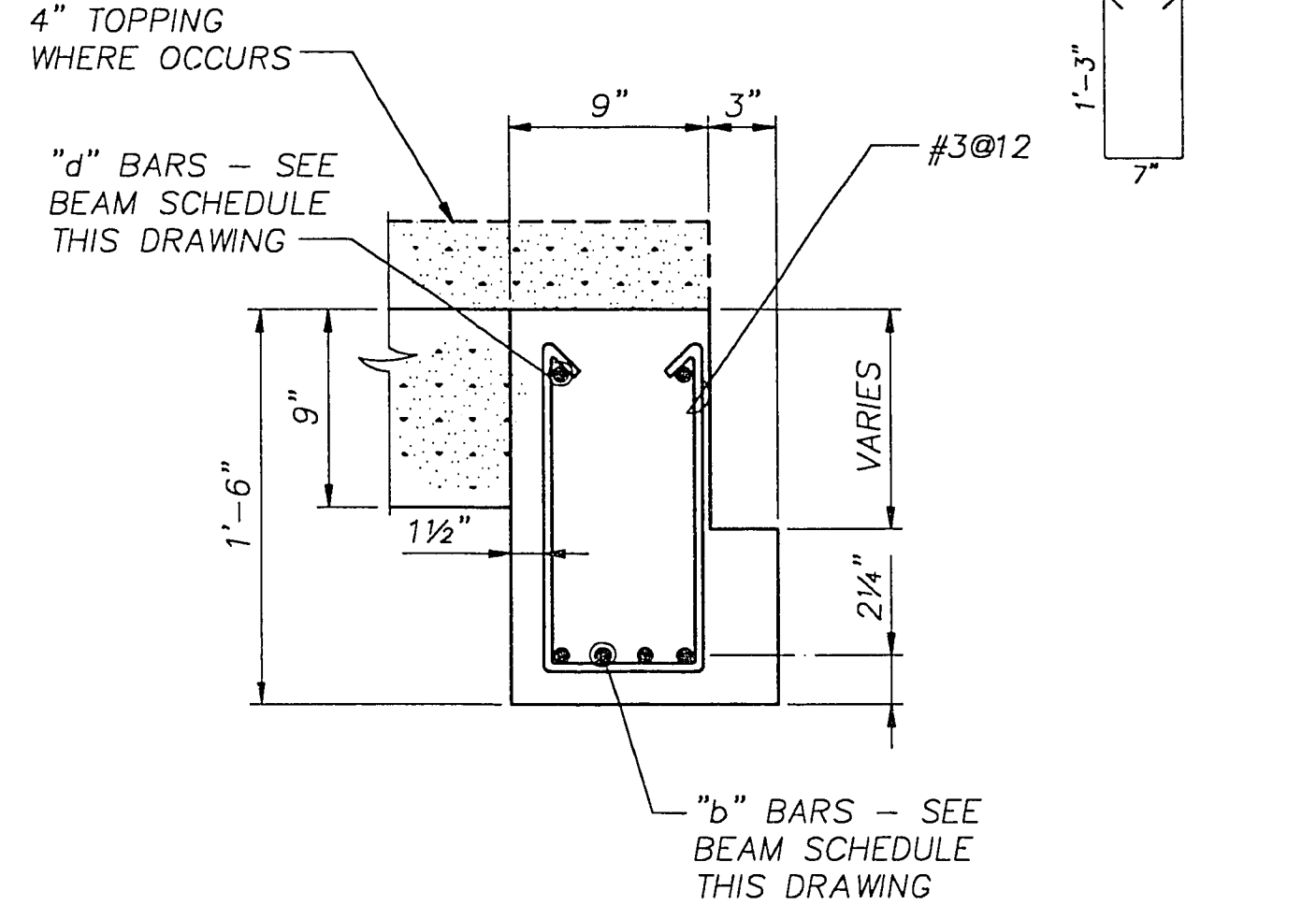
**NOTE:**  
EAST/WEST SLAB BARS SHALL BE PLACED CLOSEST TO CONCRETE FACES (1" CLEAR). NORTH/SOUTH BARS SHALL BE PLACED INSIDE OF EAST/WEST BARS.

**SLAB DETAIL**  
3/8"=1'-0"

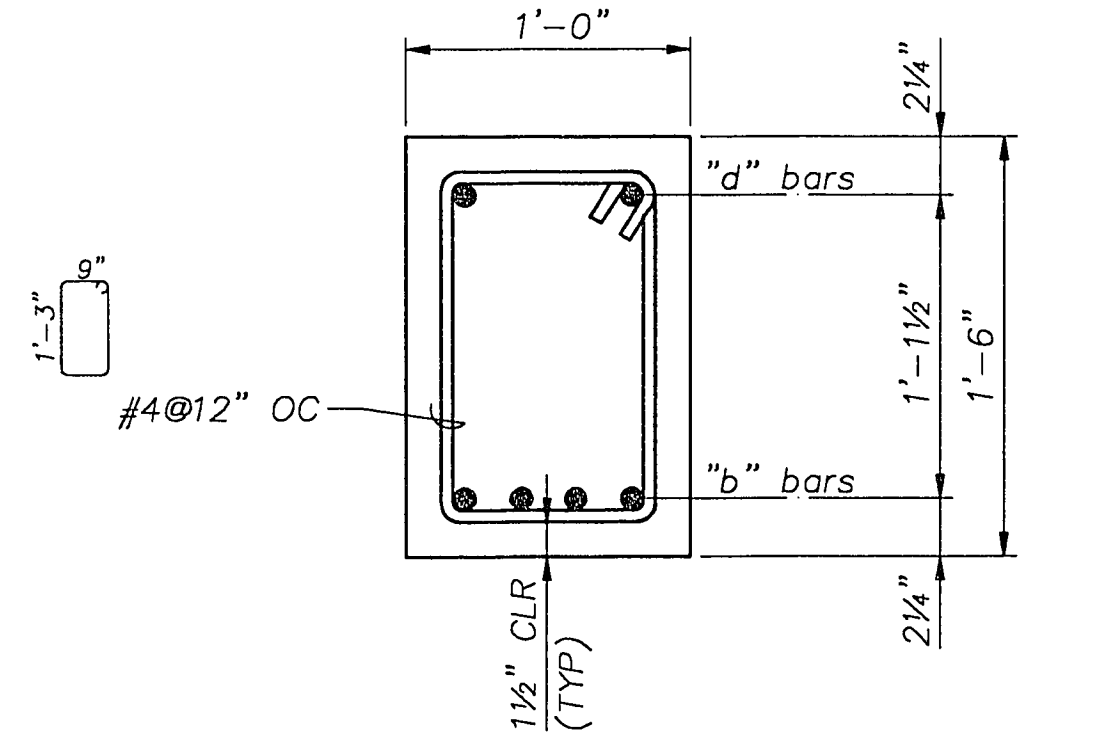


- NOTES:**
- PLACE IN BOTTOM OF BEAMS AS SHOWN IN SECTION A OF THIS DRAWING.
  - PLACE @ 1/3 POINTS IN SLABS BETWEEN BEAMS WITH MAXIMUM DISTANCE BETWEEN INSERTS OF 10'-0".
  - INSERTS SHALL BE PLACED PERPENDICULAR TO LONG DIMENSION OF TUNNELS.

**DETAIL**  
3"=1'-0"



**B-2 SECTION**  
1 1/2"=1'-0"



**B-4 SECTION**  
1 1/2"=1'-0"

Issue No.	Description	Date	Drawn	Checked	Rev. Engr.	Proj. Mgr.
1	CORRECTED ACCORDING TO CONSTRUCTION RECORD	1/95	RRL	EFH	MJH	JJC
0	ISSUED FOR CONSTRUCTION	8/20/92	JH	CLS	CRD	JJC
A	ISSUED FOR BID	4/20/92	JH	CLS	CRD	JJC

**PROFESSIONAL ENGINEER - STATE OF NEVADA**  
C. RUSSELL DAVIS  
No. 8255

Project Manager: JOHN J. CHUEH  
Architect: IAC/Process  
Civil: Mechanical  
Electrical: Structural  
R. DAVIS  
Drawn By: J. HIRSHOUER

City of Las Vegas  
Water Pollution Control Facility  
Nitrification / Filtration Facilities  
Contract 17  
NITRIFICATION COMPLEX

**AERATION BASINS**  
**BEAM AND SLAB SCHEDULES, SECTIONS AND DETAILS**

Date: APRIL 1992  
Scale: AS NOTED  
Project No.: 00120-084-141  
Drawing No.: S-315  
Issue: 1