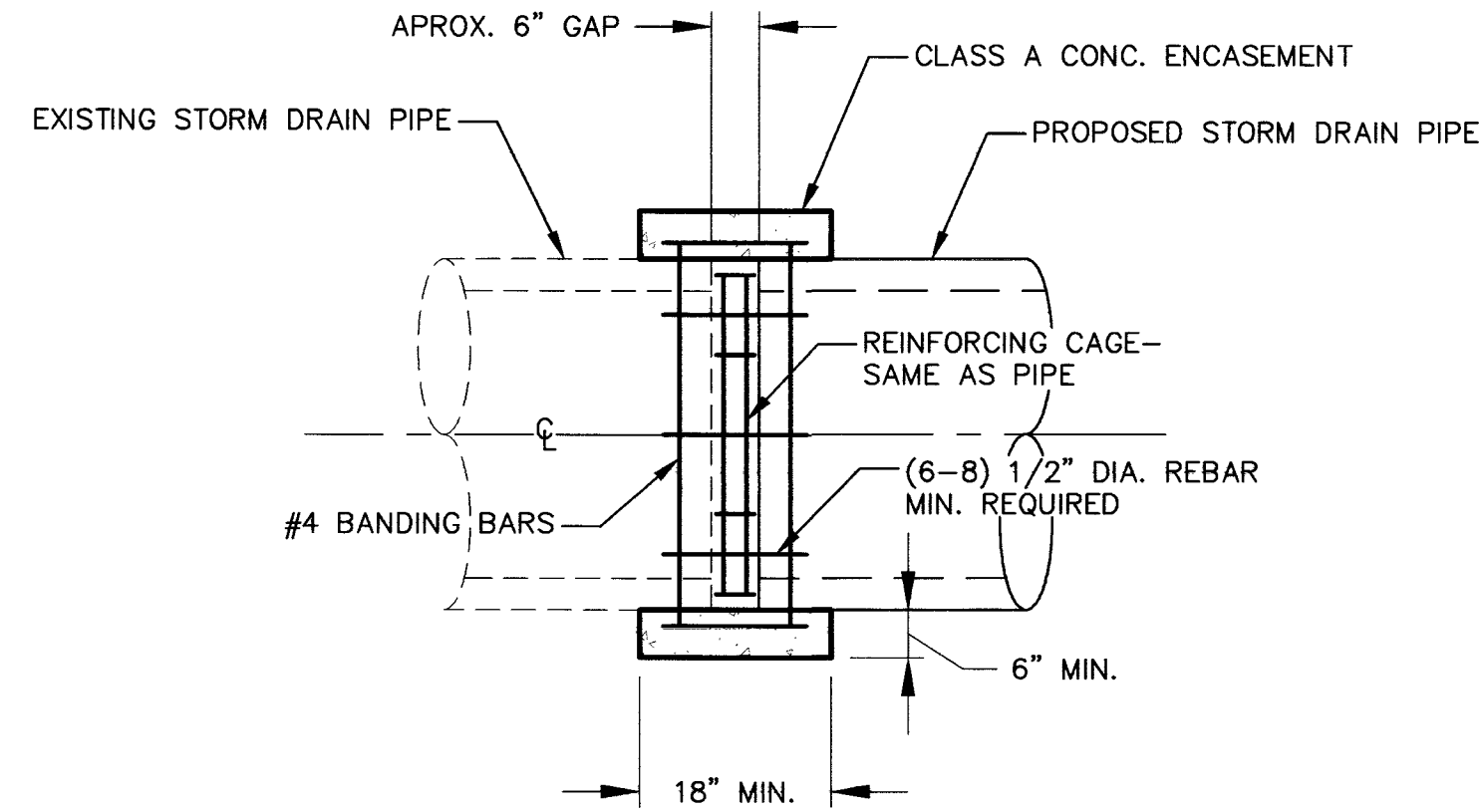
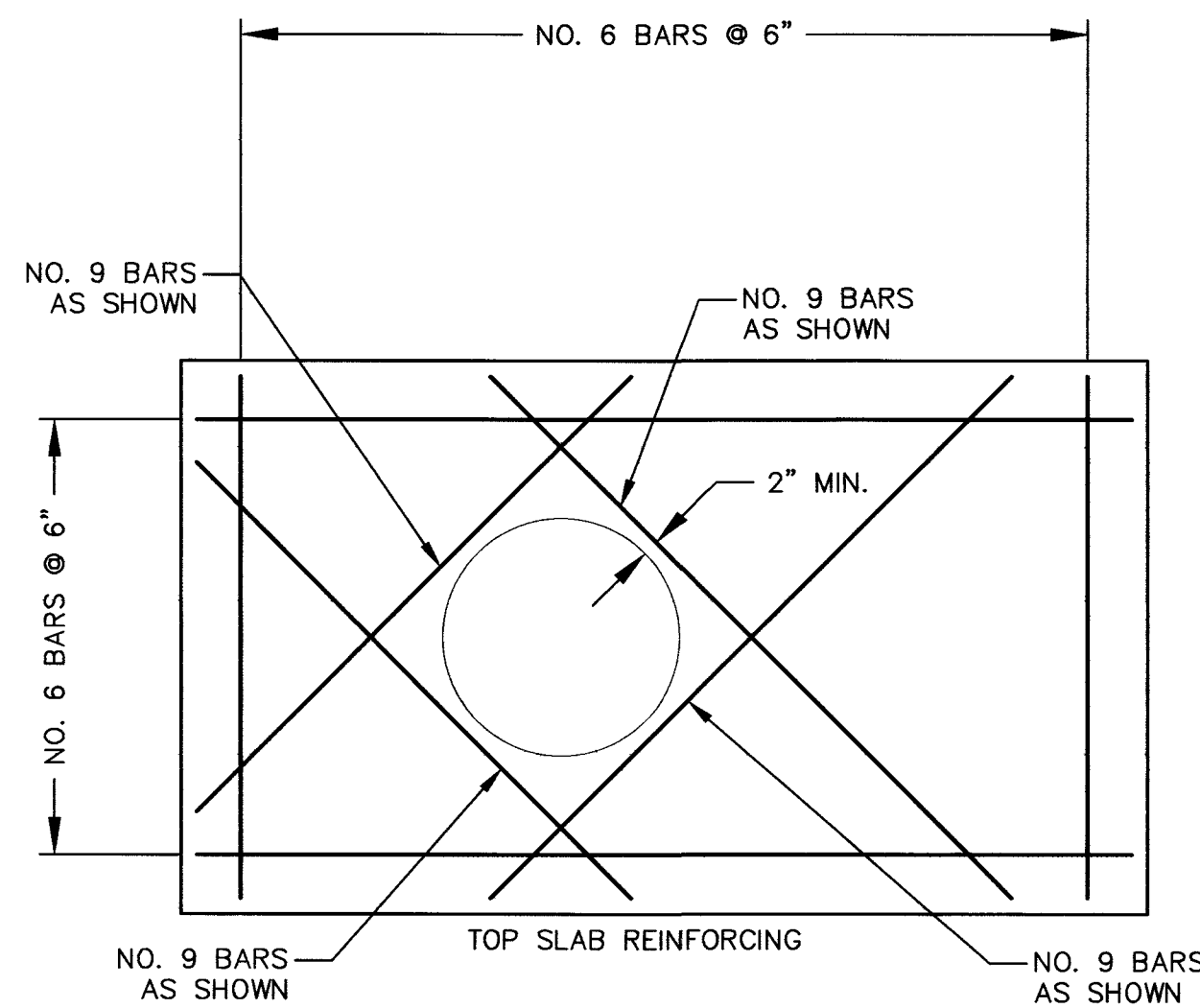


**TYPICAL RCP STRAIGHT CONNECTION COLLAR
DETAIL**
NOT TO SCALE



NOTES:

1. ALL CONCRETE SHALL BE CLASS A OR CLASS AA
2. INFLOW PIPE INVERT ELEVATIONS SHALL BE GREATER THAN OR EQUAL TO 0.1' ABOVE THE OUTFLOW PIPE INVERT ELEVATION
3. PRECAST CONCRETE PIPE SECTIONS, TAPERED SECTIONS, LIDS, GRADE RINGS, BASES AND STEPS SHALL CONFORM TO AASHTO M 199 (ASTM C-478)
4. MANHOLE COVER SHALL BEAR ENTITY IDENTIFICATION AND SYSTEM FUNCTION
5. SHAPE FLOWLINE IN MANHOLE TO OUTLET PIPE, AND PROVIDE A 10:1 SLOPE FROM ALL DIRECTIONS TOWARD FLOW LINE



**PIPE PENETRATION
DETAIL**
NOT TO SCALE

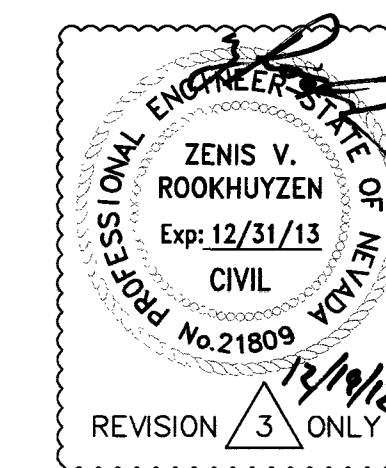
STORM DRAIN DROP INLET DESIGN MATRIX

DROP INLET NUMBER	STATION	OFFSET	* DROP INLET TYPE	TYPE OF GRATE	* TYPE OF GRATE (DESIGN)	NUMBER OF OPEN GRATES	LENGTH** (FT)	WIDTH OF ONE GRATE (in)	LENGTH OF ONE GRATE (in)
DI WRR-03	35+89.53	41.9' LT	TYPE C-D MODIFIED (412A)	CM2	NEENAH 4999-L9	3	10	17 3/4	29 3/4
DI WRR-04	48+83.48	42.2' LT	JENSEN 3636	NA	NEENAH R4855	SEE DETAIL SHEET SD14			
DI WRR-06	50+35.83	44.5' LT	TYPE C-D MODIFIED (412A)	CM2	NEENAH 4999-L9	2	5	17 3/4	29 3/4
DI WRR-09	57+97.76	33.0' RT	TYPE C-D MODIFIED (412A) - NARROW GRATE	DM2	NEENAH R-4999-L6	3	6	12	24
DI WRR-07	57+98.19	45.2' LT	TYPE C-D MODIFIED (412A)	DM2	NEENAH 4999-L9	1	2.5	17 3/4	29 3/4
DI WRR-08	65+89.69	34.2' LT	TYPE C-D MODIFIED (412A) - NARROW GRATE	CM2	NEENAH R-4999-L6	3	6	12	24
DI WRR-10	66+06.84	34.7' LT	JENSEN 24x36	NA	JENSEN SG 2436 DIT	SEE DETAIL SHEET SD12			
DI WRR-11	73+87.78	40.2' LT	JENSEN 2222	NA	NEENAH R-4855	SEE DETAIL SHEET SD16			
DI WRR-17	87+48.66	30.6' LT	TYPE C-D MODIFIED (412A)	DM2	NEENAH 4999-L9	3	10	17 3/4	29 3/4
DI WRR-12	87+53.31	35.5' RT	TYPE C-D MODIFIED (412A) - NARROW GRATE	CM2	NEENAH R-4999-L6	7	16	12	24
DI WRR-18	118+06.97	31.4' LT	TYPE C-D MODIFIED (412A)	DM2	NEENAH 4999-L9	1	2.5	17 3/4	29 3/4
DI WRR-13	156+80.58	34.5' RT	TYPE C-D MODIFIED (412A)	CM2	NEENAH 4999-L9	11	30	17 3/4	29 3/4
DI WRR-16	183+63.51	55.9' LT	TYPE C-D MODIFIED (412A) - NARROW GRATE	DM2	NEENAH R-4999-L6	3	6	12	24
DI VV-01	92+34.34	32.7' RT	TYPE C-D MODIFIED (412A)	CM2	NEENAH 4999-L9	5	15	17 3/4	29 3/4
DI VV-02	92+52.50	33.3' LT	TYPE C-D MODIFIED (412A)	DM2	NEENAH 4999-L9	5	15	17 3/4	29 3/4
DI VV-03	94+24.97	32.1' RT	TYPE C-D MODIFIED (412A)	CM2	NEENAH 4999-L9	5	15	17 3/4	29 3/4
DI VV-04	94+42.08	35.0' LT	TYPE C-D MODIFIED (412A) - NARROW GRATE	CM2	NEENAH R-4999-L6	7	16	12	24
DI VV-05	96+66.38	31.4' RT	TYPE C-D MODIFIED (412A)	CM2	NEENAH 4999-L9	2	5	17 3/4	29 3/4
DI VV-06	97+46.45	37.5' LT	JENSEN 3636	NA	NEENAH R 4855	SEE DETAIL SHEET SD13			
DI VV-07	100+82.67	33.0' LT	TYPE C-D MODIFIED (412A) - NARROW GRATE	CM2	NEENAH R-4999-L6	3	6	12	24
DI OAK-01	19+05.12	30.5' RT	TYPE C-D MODIFIED (412A)	CM2	NEENAH 4999-L9	7	20	17 3/4	29 3/4
DI OAK-02	19+21.15	30.8' LT	TYPE C-D MODIFIED (412A)	DM2	NEENAH 4999-L9	5	15	17 3/4	29 3/4
DI OAK-03	20+75.24	30.1' LT	TYPE C-D MODIFIED (412A)	CM2	NEENAH 4999-L9	3	10	17 3/4	29 3/4

STORM DRAIN MANHOLE DESIGN MATRIX

MANHOLE NUMBER	STATION	OFFSET	MANHOLE TYPE
MH 03	35+82.03	20.7' LT	72" NDOT R-4.3.1 TYPE 2 MODIFIED
MH 04	49+09.74	36.2' LT	48" NDOT R-4.3.1 TYPE 2 MODIFIED
MH 06	50+35.83	37.7' LT	72" NDOT R-4.3.1 TYPE 2 MODIFIED
MH 08	65+90.12	34.7' LT	60" NDOT R-4.3.1 TYPE 2 MODIFIED
A MH 1	92+40.20	27.7' LT	30" ACCESS MH
A MH 2	96+40.20	27.8' LT	30" ACCESS MH
A MH 3	99+56.62	27.8' LT	30" ACCESS MH
A MH 4	19+19.30	18.0' LT	30" ACCESS MH
A MH 5	19+85.37	18.2' LT	30" ACCESS MH
A MH 6	20+80.09	18.5' LT	30" ACCESS MH

* DROP INLET TYPES AND GRATE TYPES ARE FOR DESIGN CAPACITY / PURPOSES. CONTRACTOR TO USE TYPE SPECIFIED OR APPROVED EQUIVALENT. FURNISHED GRATE LENGTHS MAY BE ± 6" OF THAT SHOWN IN MATRIX & ON PLAN & PROFILE SHEETS.
**ADD SOLID LID WITH EXTENDED CURB OPENING AT UPSTREAM END OF 412A INLETS WITH 3 OR MORE OPEN GRATES. LENGTH SPECIFIED ON PLANS REFERS TO CURB OPENING LENGTH.



NO.	DATE	SHEET	DESCRIPTION	APP'D
1	11/20/11		REL. TURN LANE PER CIV ROW	
2	01/06/12		MODIFY GRATE TYPE / LENGTH	
3	11/14/12		DEL. TURN LANE AND MEDIAN ISLANDS PER CIV ROW	

**DEPARTMENT OF PUBLIC WORKS
CAPITAL PROJECT MANAGEMENT**
CITY ENGINEER: DAVID BOWERS, PE, PTOE
PROGRAM MANAGER: JEREMY LEAVITT, PE
DESIGNED BY: T. ALEXANDER
DRAWN BY: M. SACKSCHWESKY
CHECKED BY: D. TULLOCH
DATE: 08/12/2011

**VALLEY VIEW BOULEVARD
DESERT INN RD TO BONANZA RD
STORM DRAIN DETAILS**



SHEET:
SD-18
91 of 236
DRAWING NO.
107-V5627