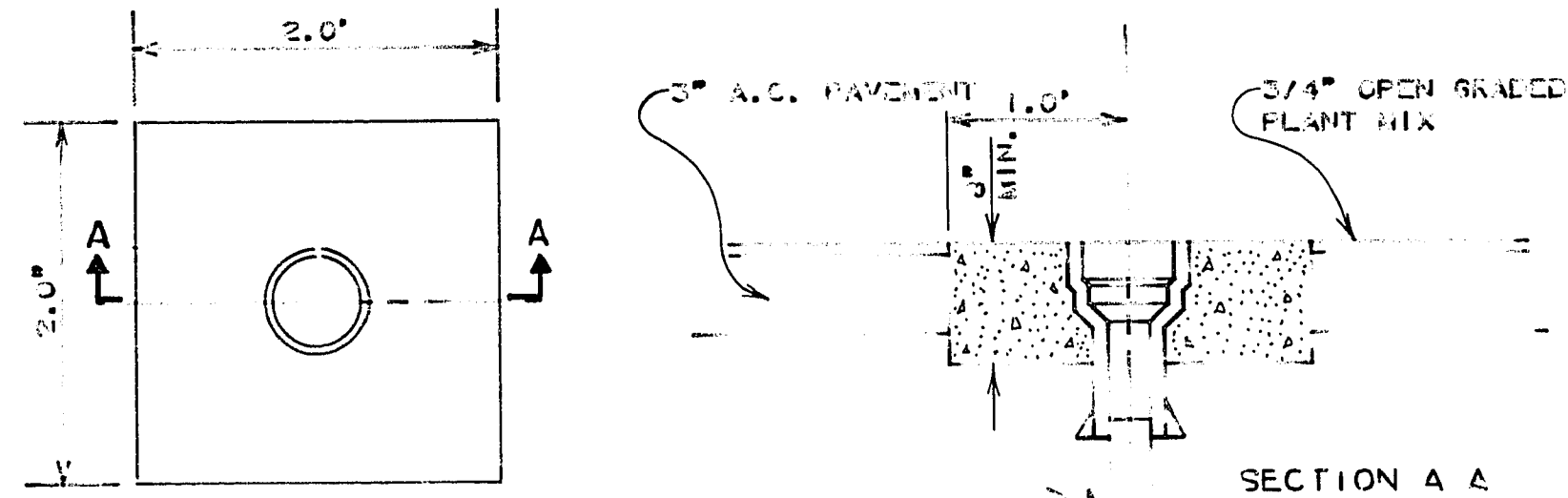


GENERAL NOTES

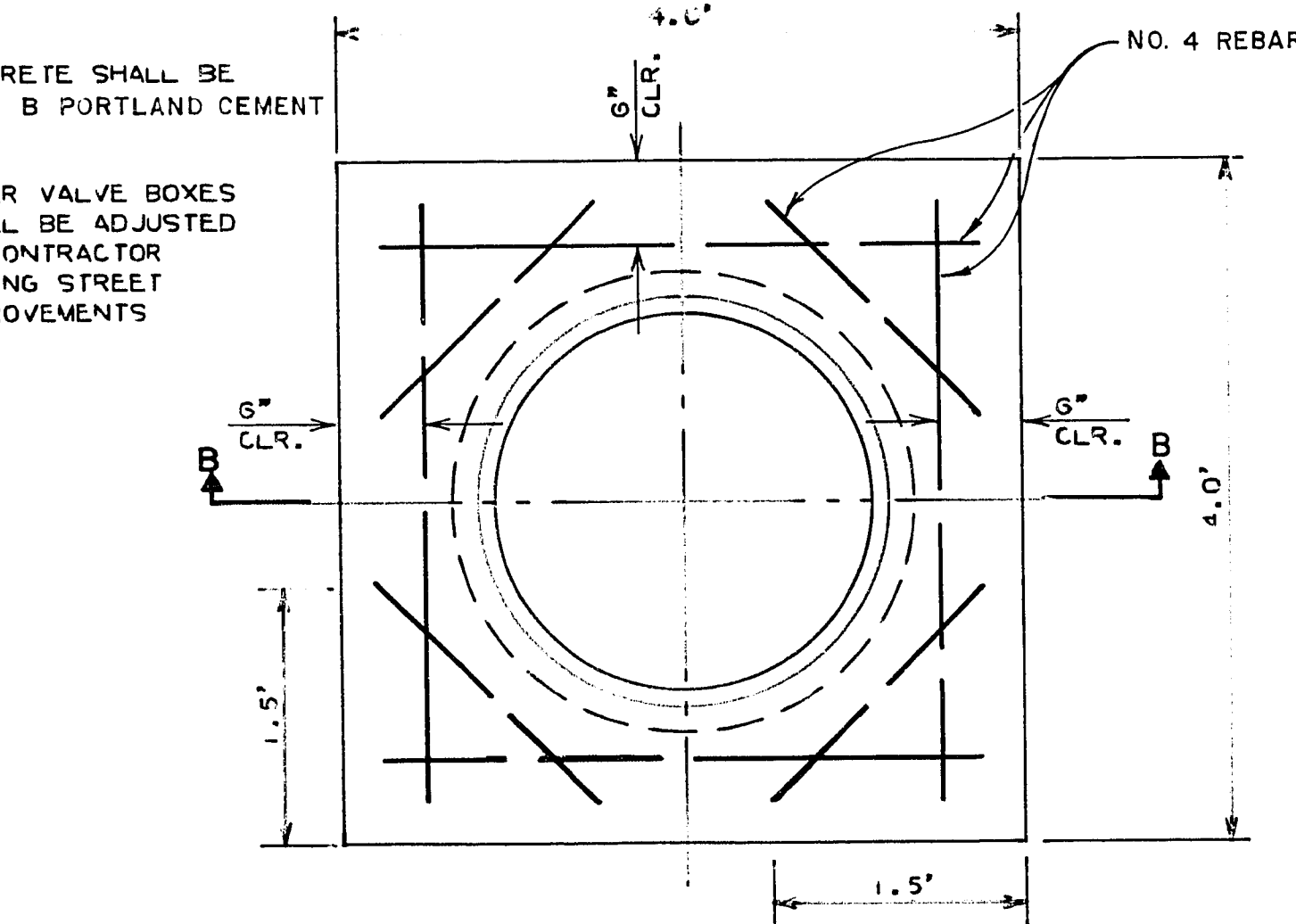
1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD DRAWINGS AND "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" ISSUE OF JANUARY 1978, FOR CLARK COUNTY AREA, NEVADA, UNLESS OTHERWISE SPECIFIED BY NOTE ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
2. ALL UTILITY COMPANIES SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
3. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON PLANS FOR CONTRACTORS' CONVENIENCE WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. THE CITY OF LAS VEGAS ASSUMES NO RESPONSIBILITY FOR UTILITIES OR STRUCTURES NOT OF RECORD, OR NOT IN THE LOCATION OF RECORD. THE CONTRACTOR'S LIABILITY REGARDING ANY DAMAGED UTILITY IS SET FORTH IN SECTION 16 OF THE STANDARD SPECIFICATIONS.
4. THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT ALL EXISTING STREET IMPROVEMENTS REMAINING IN PLACE, AND ANY STREET IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED OR RECONSTRUCTED AT THE EXPENSE OF THE CONTRACTOR.
5. THE CONTRACTOR SHALL NOT REMOVE ANY EXISTING IMPROVEMENTS, TREES, SHRUBS, WALLS, FENCES, SIGNS, STRUCTURES, PRIVATE LIGHT POLES, ETC., UNLESS DIRECTED TO DO SO BY NOTE ON THE PLANS OR BY THE ENGINEER.
6. EXISTING IMPROVEMENTS, TREES, SHRUBS, WALKS, FENCES, SIGNS, STRUCTURES, ETC., WITHIN THE STREET RIGHT-OF-WAY THAT WILL INTERFERE WITH CONSTRUCTION SHALL BE REMOVED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.
7. ALL REPLACEMENT, RELOCATION OR RECONSTRUCTION OF EXISTING IMPROVEMENTS, FENCES, SPRINKLER SYSTEMS, SHRUBS, WALLS, SIGNS, STEPS, SIDEWALKS, DRIVEWAYS, PRIVATE LIGHT POLES AND ALL OTHER OBJECTS PERTINENT TO THIS CONTRACT SHALL BE DONE AS DIRECTED BY THE ENGINEER.
8. THE CONTRACTOR SHALL BACKFILL, GRADE AND CLEAN-UP ALL CUT OR FILL SLOPES TO MEET EXISTING CONDITIONS. WHERE LAWNS ARE EXISTING THE CONTRACTOR SHALL RESEED AND/OR SOO THE AFFECTED AREA TO ACHIEVE A CONDITION EQUAL TO, OR BETTER THAN BEFORE. MAXIMUM SLOPE 4 TO 1. COST TO BE INCLUDED IN PRICE BID ON OTHER ITEMS.
9. ALL BARRICADING AND TEMPORARY TRAFFIC CONTROL DEVICES OR METHODS TO BE USED DURING CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STATE OF NEVADA "TRAFFIC CONTROL MANUAL" ISSUE OF JULY, 1978, AVAILABLE FROM THE DIVISION OF TRAFFIC ENGINEERING, 400 E. STEWART AVENUE.
10. THE OWNING UTILITY COMPANY SHALL BE RESPONSIBLE FOR REMOVAL OR RELOCATION OF ALL POWER POLES, TELEPHONE POLES, JOINTLY-OWNED POLES AND RELATED APPURTENANCES THAT INTERFERE WITH REQUIRED IMPROVEMENTS AS SHOWN ON THE PLANS, AND IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
11. THE LAS VEGAS VALLEY WATER DISTRICT SHALL BE RESPONSIBLE FOR THE REMOVAL OR RELOCATION OF ALL WATER LINES AND RELATED APPURTENANCES THAT INTERFERE WITH REQUIRED IMPROVEMENTS AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH CITY OF LAS VEGAS STANDARD DRAWING NO. 58.05 AND 58.07, ADJUST WATER MANHOLES TO FINISHED GRADE.
12. THE CONTRACTOR SHALL NOTIFY THE UNITED STATES POST OFFICE REGARDING THE NECESSITY OF REMOVING AND RELOCATING ALL U.S. MAILBOXES THAT INTERFERE WITH THE REQUIRED IMPROVEMENTS AS SHOWN ON THE PLANS.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERTICAL ADJUSTMENT OF SANITARY SEWER MANHOLES TO THE REQUIRED GRADE AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH SECTION 301.5, 331.8, AND APPLICABLE PORTIONS OF SECTION 512 OF THE STANDARD SPECIFICATIONS.
14. THE SOUTHWEST GAS COMPANY SHALL BE RESPONSIBLE FOR THE REMOVAL OR RELOCATION OF ALL GAS LINES AND RELATED APPURTENANCES THAT INTERFERE WITH REQUIRED IMPROVEMENTS AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL ADJUST GAS VALVES TO FINISHED GRADE.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERTICAL ADJUSTMENT OF ALL CENTRAL TELEPHONE MANHOLES TO THE REQUIRED FINISHED GRADE AS SHOWN ON THE PLANS.
16. PRIOR TO ANY TYPE OF CONSTRUCTION IN THE AREA OF AN EXISTING SEWER, THE CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION TO THE MAIN IN THE FORM OF A SPLIT CIRCLE OF MINIMUM 3/4" PLYWOOD HAVING A DIAMETER NOT MORE THAN 4" SMALLER THAN THE INSIDE DIAMETER AT THE BOTTOM OF THE MANHOLE. THE SECTIONS OF THE CIRCLE SHALL BE HELD IN PLACE BY A MINIMUM OF TWO SCABS NAIL SECURELY ACROSS THE JOINT. THE JOINT SHALL BE PLACED TRANSVERSELY TO THE FLOW LINE OF THE MAIN. ANY SUBSTITUTE METHOD OF PROTECTION MAY BE USED PROVIDED IT IS APPROVED BY THE ENGINEER. THE CITY SHALL RIG THE SEWER LINE PRIOR TO CONSTRUCTION AND THE CONTRACTOR SHALL BALL AND CLEAN THE SEWER LINE PRIOR TO FINAL ACCEPTANCE OF THE PROJECT BY THE CITY.
17. TYPE B PORTLAND CEMENT SHALL BE USED IN ALL CONCRETE, UNLESS OTHERWISE SPECIFIED.
18. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT THE CITY OF LAS VEGAS TRAFFIC ENGINEERING DEPARTMENT FOR THE LOCATION OF ALL TRAFFIC CONDUIT AND RELATED APPURTENANCES THAT MAY INTERFERE WITH REQUIRED IMPROVEMENTS PRIOR TO CONSTRUCTION.
19. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT THE CITY OF LAS VEGAS FIRE DEPARTMENT FOR THE LOCATION OF ALL FIRE ALARM CONDUIT AND RELATED APPURTENANCES THAT MAY INTERFERE WITH REQUIRED IMPROVEMENTS PRIOR TO CONSTRUCTION.
20. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT THE CITY OF LAS VEGAS ELECTRICAL DEPARTMENT FOR THE LOCATION OF ALL ELECTRICAL CONDUIT AND RELATED APPURTENANCES THAT MAY INTERFERE WITH REQUIRED IMPROVEMENTS PRIOR TO CONSTRUCTION.
21. ALL MANHOLES ARE TO BE CONSTRUCTED ACCORDING TO THE CITY OF LAS VEGAS STANDARD DRAWING 512-2; OR AS DESIGNATED ON THE CONTRACT DRAWINGS.



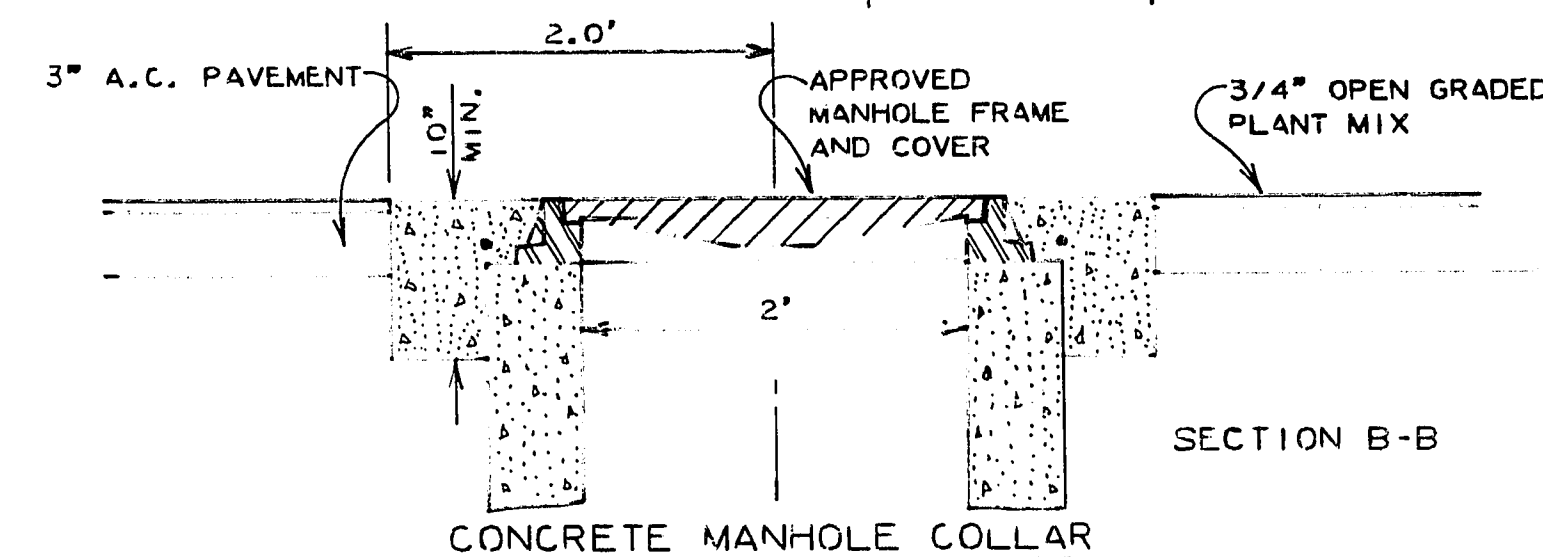
CONCRETE WATER VALVE COLLAR

NOTES

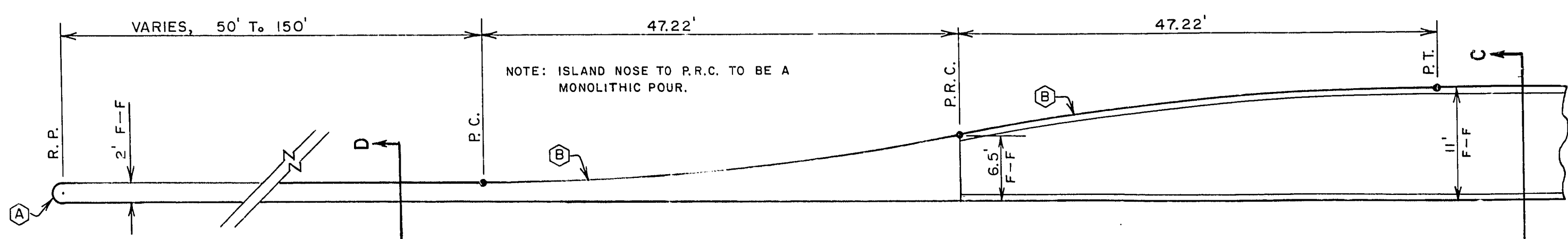
1. CONCRETE SHALL BE TYPE B PORTLAND CEMENT
2. WATER VALVE BOXES SHALL BE ADJUSTED BY CONTRACTOR MAKING STREET IMPROVEMENTS



CONCRETE MANHOLE COLLAR



SECTION C-C
SCALE 1" = 1'-0"

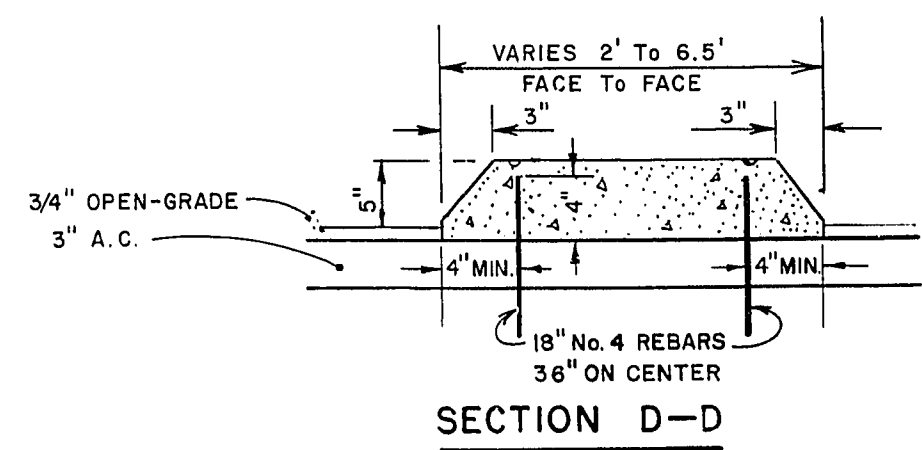


TYPICAL ISLAND DETAIL

SCALE: 1" = 10'-0"

CURVE DATA

- | Station | Angle | Radius | Tangent | Length |
|---------|--------------|-------------|------------|------------|
| A | 180° 00' 00" | R = 1.00' | T = ∞ | L = 3.14' |
| B | 10° 53' 15" | R = 250.00' | T = 23.87' | L = 47.51' |



SECTION D-D
SCALE 1" = 1'-0"

TOTAL APPROXIMATE QUANTITIES

ITEM NO.	DESCRIPTION	NV STATE HWY DEPT.	C.L.V.	S.I.D.	R.S.&H.	UNIT	TOTAL
202.0001	REMOVE CONCRETE					LS.	1
202.00.03	ABANDON MANHOLE					EA.	1
203.00.00	EXCAVATED MATERIAL FROM OTHER JOB SITES					LS.	1
203.00.01	ROADWAY EXCAVATION			2307	28,919	CY	31,221
302.00.00	RECOMPACTED EX. GRAVEL BASE	175	175	6920	54,318	SY	61,588
302.00.01	TYPE I GRAVEL BASE			1247	13,534	CY	14,781
302.00.02	TYPE II GRAVEL BASE	12	12	1628	11,385	CY	13,037
401.00.03	1/2" A.C. ISLAND SURFACING				303	TONS	303
401.00.04	2" A.C. PAVEMENT				319	TONS	319
401.00.06	3" A.C. PAVEMENT	5	5	1994	16,429	TONS	18,433
401.00.12	6" TEMP A.C. ISLAND				98	SF	98
401.00.14	6" A.C. CURB				90	LF	90
403.00.01	3/4" OPEN GRADED PLANT MIX	100	100	11,418	86,796	SY	98,414
406.00.01	BITUMINOUS PRIME COAT			3,584	30,446	GAL	34,030
407.00.01	BITUMINOUS FOG SEAL				927	GAL	927
600.00.08	8" STORM SEWER PIPE	35.5	35.5			LF	71
600.00.08A	8" STORM SEWER PIPE (CONC. ENC.)	20	20			LF	40
600.00.12	12" STORM SEWER PIPE	99	99		7914	LF	8112
600.00.12A	12" S.S.P. WITH PERMANENT PATCH			467		LF	467
600.00.15	15" STORM SEWER PIPE				2487	LF	2487
600.00.18	18" STORM SEWER PIPE				1554	LF	1554
609.00.01	TYPE 1 DROP INLET				7	EA	7
609.00.02	TYPE 2 DROP INLET				23	EA	23
609.00.03	TYPE 3 DROP INLET				3	EA	3
609.00.03A	NEVADA STATE TYPE 3 D.I.	1	1			EA	2
609.00.04	TYPE 4 DROP INLET					EA	1
609.00.30	30" DIA. MANHOLE	2	11		117	VF	130
609.00.48	48" DIA. MANHOLE				158	VF	158
60903.02	ADJUST MANHOLE			51		EA	51
609.03.05	ADJUST TELEPHONE M.H. (CENTEL)					EA	3
60903.06	ADJUST WATER VALVE (L.V.V.W.D.)					EA	51
60903.07	ADJUST GAS VALVE (S.W. GAS Co.)					EA	8
60903.07A	ADJUST GAS ANODE (S.W. GAS Co.)					EA	2
60903.08	ADJUST WATER METERS (L.V.V.W.D.)					EA	9
60903.10	ADJUST WATER VAULT (L.V.V.W.D.)					EA	3
60903.12	ADJUST FIRE HYDRANT			1		EA	1
613.00.01	24" 'L' TYPE CURB AND GUTTER	18	18	13,163	3554	LF	16,753
613.00.02	12-3/4" EXTRUDED 'A' TYPE CURB				8273	LF	8273
613.00.08	4" CONCRETE SIDEWALK	37.5	37.5	18,322	5851	SF	24,248
613.00.09	RESIDENTIAL DRIVEWAY			340	1840	SF	2180
613.00.10	ISLAND CONCRETE				12,576	SF	12,576
613.00.12	VALLEY GUTTER				910	SF	910
613.00.13	WHEEL CHAIR RAMP	.5	.5		18	EA	19
6236.00.00	ADJUST PULLBOX			1		EA	1
626.00.00	CLEANING AND FINAL CLEAN UP					LS	1
630.00.00	8" VCP SANITARY SEWER			135		LF	135
	ADDITIVE ITEM						
213.00.00	3/4" ISL. WATER SERVICE CONNECTION			12		EA	12
	ADDITIVE ALTERNATE						
61300.99	STAMPED CONCRETE ISLAND			12,576		SF	12,576

Engineering Design Division

Department of Public Services

GENERAL NOTES

TOTAL APPROXIMATE QUANTITIES

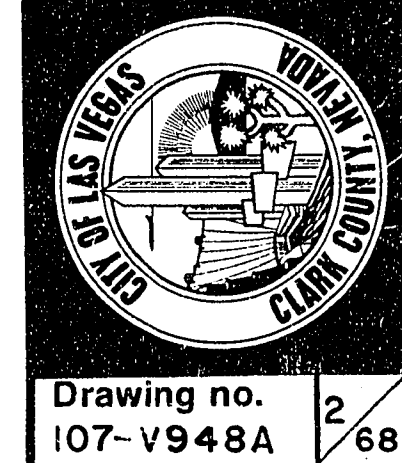
COLLAR DETAILS

ISLAND DETAILS

JONES BLVD.

CHARLESTON BLVD.

SMOKE RANCH ROAD



Drawing no. 107-V948A

FEB. 2, 1977

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