LEGEND

EXISTING TREE		EXISTING DROP INLET	
EXISTING BUSH		EXISTING WHEELCHAIR RAMP	
EXISTING CHAIN-LINK-FENCE		EXISTING ELEVATION	(90.23) TC
EXISTING BLOCK WALL		EXISTING MONUMENT	
EXISTING SEWER	10"SS	EXISTING TRAFFIC CONTROLLER	TRAFF
EXISTING WATER	10"W	EXISTING MAILBOX	
EXISTING GAS	2"G	NEW AC PAVEMENT	
EXISTING OVERHEAD ELECTRIC	OV ELEC	NEW BLOCK WALL	
EXISTING UNDERGROUND ELECTRIC	ELEC	NEW STORM DRAIN W/MANHOLE	18"SD
EXISTING CABLE T.V.	CATV	NEW STREETLIGHT CONDUIT	
EXISTING STORM DRAIN	EX 24"SD	NEW DRIVEWAY	
EXISTING UNDERGROUND TELEPHONE	6-4"TELE	NEW CURB AND GUTTER	
EXISTING STREETLIGHT CONDUIT		NEW FIRE HYDRANT	
ABANDONED UTILITY	8"AB	NEW WATER VALVE	
EXISTING DRIVEWAY		NEW WATER METER	WM
EXISTING CURB AND GUTTER		NEW ELECTRICAL PULLBOX	EPB
EXISTING FIRE HYDRANT		NEW TRAFFIC SIGNAL PULLBOX	PB TSPB
EXISTING UTILITY VALVE		NEW STREETLIGHT	
EXISTING WATER METER		NEW STREET SIGN	
EXISTING ELECTRICAL PULLBOX		NEW DROP INLET	
EXISTING TRAFFIC SIGNAL PULLBOX		NEW WHEELCHAIR RAMP	
EXISTING SEWER MANHOLE	S	NEW ELEVATION	90.23 TC
EXISTING STORM DRAIN MANHOLE	D	DIRECTION OF FLOW OR SLOPE	
EXISTING ELECTRICAL MANHOLE	E	NEW MONUMENT	
EXISTING TELEPHONE MANHOLE	T	EDGE OF PAVEMENT	
EXISTING STREETLIGHT		CENTERLINE	
EXISTING POWER POLE		RIGHT-OF-WAY LINE	
EXISTING STREET SIGN		PROPERTY LINE	
		STREET ADDRESS	0000
		LIMITS OF IRRIGATION & LANDSCAPE REPAIR	
		STREETLIGHT SERVICE POINT	

ABBREVIATIONS

@	AT	EVCS	END VERTICAL CURVE STATION	PP	POWER POLE
AB	ABANDONED UTILITY	EVCE	END VERTICAL CURVE ELEVATION	PRVC OR PRC	POINT OF REVERSE VERTICAL CURVATURE
AC	ASPHALTIC CONCRETE	EXIST., EX.	EXISTING	PT	POINT OF TANGENCY
A.D.	ALGEBRAIC DIFFERENCE	EXP. JT.	EXPANSION JOINT	PB	PULLBOX
AGG.	AGGREGATE	FOC	FACE OF CURB	ℙ OR PL	PROPERTY LINE
APPROX.	APPROXIMATE	FL	FLOWLINE	PVI	POINT OF VERTICAL INTERSECTION
ASSY.	ASSEMBLY	FG	FINISHED GRADE	RCP	REINFORCED CONCRETE PIPE
BOC, BC	BACK OF CURB	FH	FIRE HYDRANT	RAD.	RADIUS
BCR	BACK OF CURB RADIUS	FT.	FOOT/FEET	RES	RESIDENTIAL
BLDG.	BUILDING	FUT.	FUTURE	RET.	RETAINING
BLK.	BLOCK	GB	GRADE BREAK	RT.	RIGHT
BM	BENCHMARK	GM	GAS METER	R-O-W OR R/W	RIGHT OF WAY
BVCS	BEGINNING VERTICAL CURVE STATION	GV	GAS VALVE	RP	RADIUS POINT
CATV	CABLE T.V.	HOR.	HORIZONTAL	S	SOUTH OR SLOPE
CLV	CITY OF LAS VEGAS	INTX.	INTERSECTION	SD	STORM DRAIN
COMM.	COMMERCIAL	INV.	INVERT	SF	SQUARE FOOT
CONC., PCC	CONCRETE	K	CURVE COEFFICIENT	SHT.	SHEET
CONST.	CONSTRUCTION	LF	LINEAR FEET	SS	SANITARY SEWER
CCSD	CLARK COUNTY STANDARD DRAWING	L.O.C.	LENGTH OF CURVE	ST.	STREET
CNDT	CONDUIT	LT.	LEFT	STA.	STATION
C & G	CURB & GUTTER	LVVWD	LAS VEGAS VALLEY WATER DISTRICT	STD.	STANDARD
℄	CENTERLINE	MAX.	MAXIMUM	SY	SQUARE YARD
DET.	DETAIL	MH	MANHOLE	S/W	SIDEWALK
DIA.	DIAMETER	MIN.	MINIMUM	TC	TOP OF CURB
DI	DROP INLET	MTL.	MATERIAL	TEMP.	TEMPORARY
D/W	DRIVEWAY	N.	NORTH	TMH	TOP OF MANHOLE
DWG.	DRAWING	NAP	NOT A PART	TRANS.	TRANSITION
E.	EAST	NIC	NOT IN CONTRACT	TYP.	TYPICAL
EA.	EACH	NTS	NOT TO SCALE	UDACS	UNIFORM DESIGN AND CONSTRUCTION STD. FOR WATER DISTRIBUTION SYSTEMS
EG	EX. GROUND OR EDGE OF GUTTER	OG	ORIGINAL GROUND	USD	UNIFORM STANDARD DRAWING
EOP, EP	EDGE OF PAVEMENT	OV ELEC	OVERHEAD ELECTRIC	UON	UNLESS OTHERWISE NOTED
ELEC	UNDERGROUND POWER	PVMT.	PAVEMENT	VC	VERTICAL CURVE
ELEV.	ELEVATION	PC	POINT OF CURVE	VG	VALLEY GUTTER
		PI	POINT OF INTERSECTION	WC	WHEEL CHAIR
				W	WEST/WATER
				WM	WATER METER
				WPJ	WEAKENED PLANE JOINT
				WV	WATER VALVE
				W/	WITH

26/53

C:\DWGS\451-ph3\451-302.dwg Mon Aug 31 09:33:34 1998 VLEE@PBSJ

GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA", LATEST ISSUE; THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA", LATEST ISSUE; AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY; THE UNIFORM BUILDING CODE; AND ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE.
2. LOCATIONS OF UNDERGROUND UTILITIES SHOWN ON THE DRAWINGS WERE OBTAINED FROM INFORMATION RECEIVED FROM THE APPLICABLE UTILITY COMPANIES. NEITHER THE OWNER NOR ENGINEER ASSUMES ANY RESPONSIBILITY FOR UTILITIES OR STRUCTURES NOT SHOWN, OR NOT IN THE LOCATION SHOWN ON THE DRAWINGS. CONTRACTOR TO VERIFY EXACT LOCATION OF UTILITIES PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR'S RESPONSIBILITY REGARDING UTILITIES SHALL BE AS REQUIRED UNDER SECTION 107.17 OF THE "UNIFORM STANDARD SPECIFICATIONS FOR CLARK COUNTY AREA, NEVADA" AND AS PROVIDED IN THE SPECIFICATIONS.
3. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES TO PROTECT EXISTING UTILITY LINES, STRUCTURES, AND STREET IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE, FROM DAMAGE, AND ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED SATISFACTORY TO THE CITY ENGINEER OR OWNING UTILITY COMPANY AT THE EXPENSE OF THE CONTRACTOR.
4. ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS, ANY REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE ENGINEER.
5. CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND FOR INGRESS AND EGRESS TO NEW CONSTRUCTION. THE EXTENT OF TRANSITIONS TO BE AS SHOWN ON PLANS.
6. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE REPLACED AND ADJUSTED PER AVAILABLE RECORDS IN ACCORDANCE WITH N.R.S. STATUTE NO. 625.550.
7. THE ACTUAL LOCATIONS OF SAWCUT LINES AND LIMITS OF DRIVEWAY TRANSITIONS AND LANDSCAPE REPAIR SHALL BE DETERMINED IN THE FIELD BY THE RESIDENT PROJECT REPRESENTATIVE.
8. ALL WATER SERVICE METER BOXES OR ANY OTHER EXISTING UTILITY VAULTS LOCATED WITHIN A COMMERCIAL OR RESIDENTIAL DRIVEWAY SHALL BE TRAFFIC RATED.
9. ALL STANDARD DRAWINGS REFERENCED IN THIS SET ARE BASED ON THE CURRENT UNIFORM STANDARD DRAWINGS – REVISION SET II – 1997 RELEASE.

BASIS OF BEARING

S00°05'58"E, BEING THE WEST LINE OF THE NW 1/4 OF SECTION 2, T.21S., R.61E., AS SHOWN ON RECORD OF SURVEY FILE 82, PAGE 84.

BENCHMARK

ELEVATIONS ARE BASED ON THE FOLLOWING CLV BENCHMARKS:

STATION	NGVD88 ELEVATION (FT)	LOCATION
2LV11 02W8	1991.490	RIVET AND PLATE – T/C SE RETURN OF OAKEY BLVD. & 15TH STREET
2LV11 02NWW8	1992.994	RIVET AND PLATE – T/C NE RETURN OF MARYLAND PKWY. & FRANKLIN AVE.
2LV11 02W4	1997.410	RIVET AND PLATE – T/C NE RETURN OF OAKEY BLVD. & MARYLAND PKWY.

LAS VEGAS VALLEY WATER DISTRICT STANDARD NOTES

1. NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN RELEASED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING WATER PLAN APPROVAL, 48 HOUR NOTICE SHALL BE GIVEN TO THE LVVWD COMMUNICATION SUPPORT CENTER (258-7171) PRIOR TO THE START OF CONSTRUCTION. NOTICE MUST BE GIVEN BY 2:00 P.M. THE BUSINESS DAY PRIOR TO A LVVWD INSPECTION.
2. ALL WORK SHALL CONFORM TO THE LVVWD'S STANDARD PLATES, DRAWING, AND SPECIFICATIONS AND THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (UDACS), LATEST EDITION.
3. ALL WORK, EXCEPT AS MODIFIED BY THESE PLANS OR BY NOTE 2, SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT DRAFT OR EDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENTS, CLARK COUNTY AREA.
4. A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVVWD.
5. ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE COPPER TUBING WITH LVVWD APPROVED SERVICE SADDLES.
6. ALL NEW WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS. EXISTING WATER METER BOXES LOCATED IN THE DRIVEWAY SHALL BE TRAFFIC RATED
7. ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB GUTTERS.
8. THE FOLLOWING REQUIREMENTS MUST BE MET IN THE EVENT A WATER LINE AND SANITARY OR STORM SEWERLINE CROSS:

   A MINIMUM EIGHTEEN (18) INCHES VERTICAL SEPARATION (OUTSIDE TO OUTSIDE) MUST BE MAINTAINED WHEN THE WATER LINE IS INSTALLED OVER THE SANITARY OR STORM SEWER LINE. IF THE VERTICAL SEPARATION CANNOT BE MAINTAINED OR THE WATER LINE MUST BE PLACED UNDER THE SANITARY OR STORM SEWER LINE, THE SANITARY OR STORM SEWER LINE MUST BE CONSTRUCTED WITH ONE OF THE FOLLOWING OR, AS SHOWN ON THESE PLANS:

   a. POTABLE WATER SUPPLY QUAILTY MATERIAL
   b. ENCASEMENT, WITH FOUR (4) INCH CONCRETE (MINIMUM)
   c. SLEEVING WITH POTABLE WATER SUPPLY QUAILTY PIPE.

   EACH PROVISION MUST EXTEND ALONG THE SANITARY OR STORM SEWER, ON EITHER SIDE OF THE MAIN, A MINIMUM OF 10 FOOT DISTANCE PERPENDICULAR TO THE WATER MAIN EXTERIOR.
9. WARNING TAPE SHALL BE REQUIRED OVER ALL MAINS, ALL SIX(6) INCH DIAMETER AND LARGER SERVICE LATERALS, AND ANY SERVICE LATERAL NOT INSTALLED PERPENDICULAR TO THE MAIN IN ACCORDANCE WITH STANDARD PLATE NO. 27
10. ALL WATER FACILITIES SHALL BE FILLED, DISINFECTED, PRESSURE TESTED, FLUSHED, FILLED AND AN ACCEPTABLE WATER SAMPLE OBTAINED, PRIOR TO CONNECTION TO THE LVVWD'S DISTRIBUTION SYSTEM.
11. THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES OR SMALLER FROM LVVWD CENTERAL STORE. TELEPHONE 258-3152, 48 HOURS PRIOR TO PICK-UP.
12. CONSTRUCTION MAY INTERRUPT SERVICE, WITH LVVWD APPROVAL AND PROPER NOTIFICATION, BETWEEN THE HOURS OF 10 PM AND 6 AM, SUNDAY THROUGH THURSDAY. CIRCUMSTANCES MAY REQUIRE TEMPORARY SERVICE FEED BE INSTALLED, WITHOUT LVVWD REIMBURSEMENT. ANY TEMPORARY SERVICE FEED MUST HAVE PRIOR LVVWD APPROVAL.
13. ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE AS LISTED ON THE LVVWD'S PRE-APPROVED MATERIALS AND MANUFACTURERS LISTING FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS.

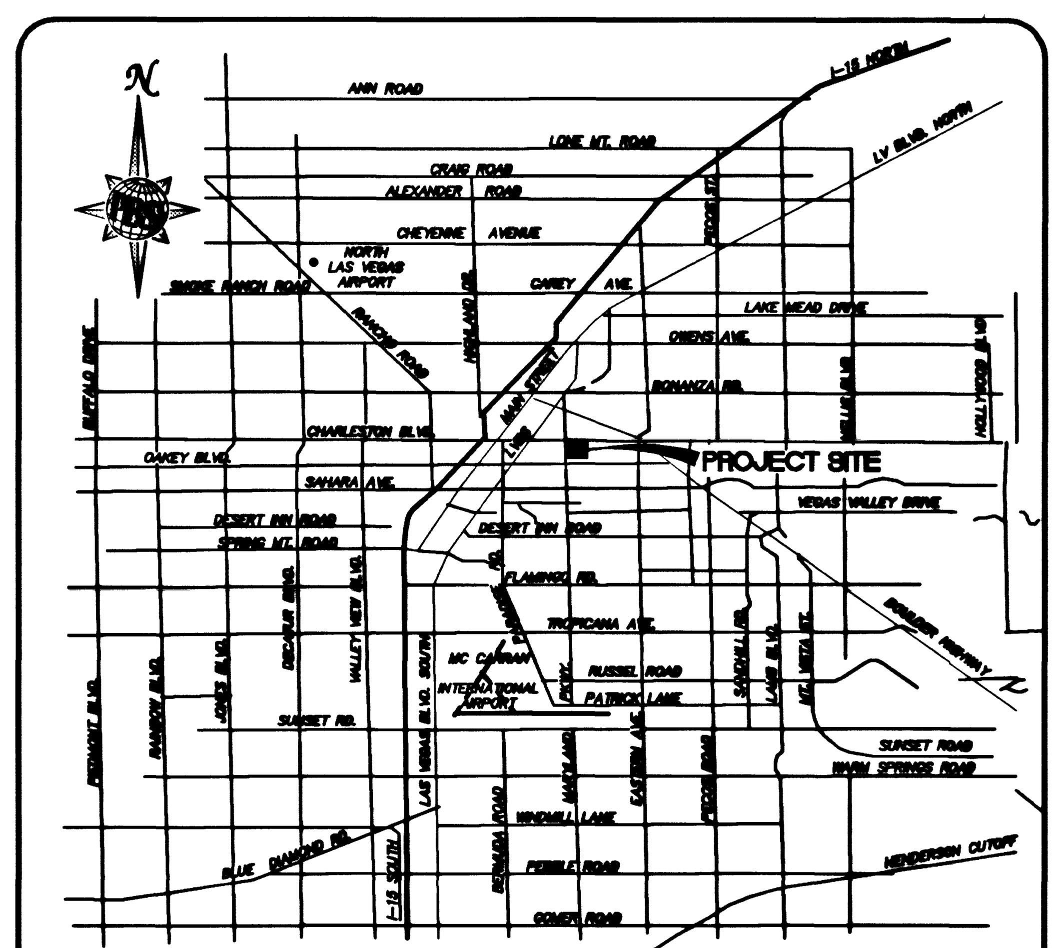
    WHERE METER BOX IS LOCATED IN DRIVEWAY, INSTALL AN ARMORCAST METER BOX.

1" MTR BOX	12" X 20" X 12" WATER METER BOX	A6000485
	12" X 20" CAST IRON LID W/ READER (20K LOADING)	A6000484A

Bonnie Croft 8-31-98
LVVWD DATE

INDEX OF DRAWINGS

DRAWING	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES, SHEET INDEX, LEGEND, ABBREVIATIONS, VICINITY MAP, LOCATION MAP.
3	TYPICAL STREET SECTIONS, QUANTITIES & GENERAL NOTES
4	SURVEY CONTROL PLAN
5	FRANKLIN AVENUE PLAN AND PROFILE STA 10+00.00 TO STA 16+00.00
6	FRANKLIN AVENUE PLAN AND PROFILE STA 16+00.00 TO STA 23+00.00
7	OAKEY BLVD. PLAN AND PROFILE STA 9+00.00 TO STA 16+00.00
8	OAKEY BLVD. PLAN AND PROFILE STA 16+00.00 TO STA 23+00.00
9	FIFTEENTH STREET PLAN AND PROFILE STA 10+00.00 TO STA 17+00.00
10	FIFTEENTH STREET PLAN AND PROFILE STA 17+00.00 TO STA 24+00.00
11	FIFTEENTH STREET PLAN AND PROFILE STA 24+00.00 TO STA 31+00.00
12	FIFTEENTH STREET PLAN AND PROFILE STA 31+00.00 TO STA 37+00.00
13	NORMAN AVENUE PLAN AND PROFILE STA 10+00.00 TO STA 16+00.00
14	NORMAN AVENUE PLAN AND PROFILE STA 16+00.00 TO STA 20+90.85
15	JESSICA AVENUE PLAN AND PROFILE STA 9+99.66 TO STA 17+00.00
16	FRANCIS AVENUE PLAN AND PROFILE STA 9+99.31 TO STA 17+00.00
17	FRANCIS AVENUE STA 17+00.00 TO STA 21+34.73 JESSICA AVENUE STA 17+00.00 TO STA 17+92.17
18	FRANCIS AVE. STA 10+00.00 TO STA 12+56.01 COTTONWOOD PL. STA 10+00.00 TO STA 12+00.00
19	COTTONWOOD PL. PLAN AND PROFILE STA 12+00.00 TO STA 17+72.99
20	INTERSECTION ENLARGEMENTS
21	INTERSECTION ENLARGEMENTS
22	STREETLIGHT LAYOUT
23	STREETLIGHT LAYOUT
24	STREETLIGHT LAYOUT & DETAILS
25	ADA REPLACEMENT
26	MISCELLANEOUS DETAILS
27	MISCELLANEOUS DETAILS

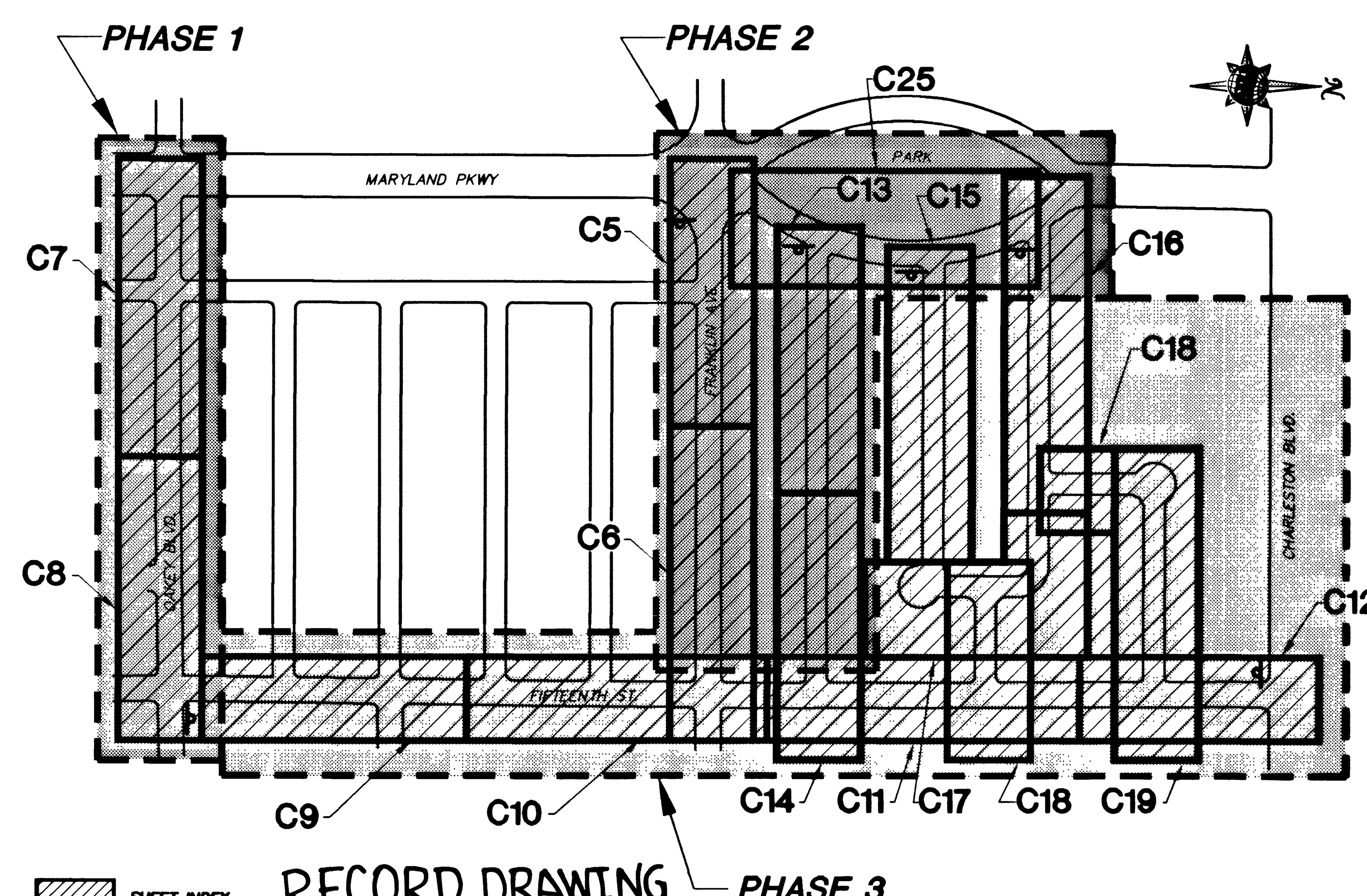


VICINITY MAP

Avoid cutting underground utility lines. It's costly.
Call before you Dig
1-800-227-2600
Nevada Power Environment and Safety Services Department

Avoid cutting underground utility lines. It's costly.
Call before you Overhead
1-702-593-6111
Nevada Power Environment and Safety Services Department

APPROXIMATE LOCATION OF PROJECT SIGN. REFER TO DWG C25 FOR SIGN DETAIL. (ERECT AS NEEDED)



SHEET INDEX

RECORD DRAWING

PH1 PH2 PH3 CONSTRUCTION PHASE GUIDE LINES

NOTE: CONTRACTOR MUST COMPLETE PHASE 1 FIRST, PHASE 2 SECOND AND PHASE 3 LAST.

PROJECT LOCATION MAP

C5 – DRAWING NUMBER

NO.	DATE	DESCRIPTION	APPROVED

REVISIONS

STREET REHABILITATION DESIGN

DRAWN BY: LSB | DESIGNED BY: AAS | CHECKED BY: W.HORLACHER

JOB NO.: 51451 | DATE: MAY 28, 1998

PBSJ POST, BUCKLEY, SCHUH & JERNIGAN
901 North Green Valley Pkwy. Suite 100 Henderson, Nevada 89014 Telephone 702/263-7275 Fax 702/263-7200
ENGINEERING · PLANNING · SURVEYING · CONSTRUCTION SERVICES

PROFESSIONAL ENGINEER – STATE OF NEVADA
WAYNE HORLACHER
CIVIL
No. 10,739
8/31/98

Department of Public Works

HUNTRIDGE NEIGHBORHOOD – PHASE 3
GENERAL NOTES, DRAWING INDEX, LEGEND
VICINITY MAP, LOCATION MAP

CITY OF LAS VEGAS NEVADA

DRAWING No. C2

PLAN# 107-V2813

2/27