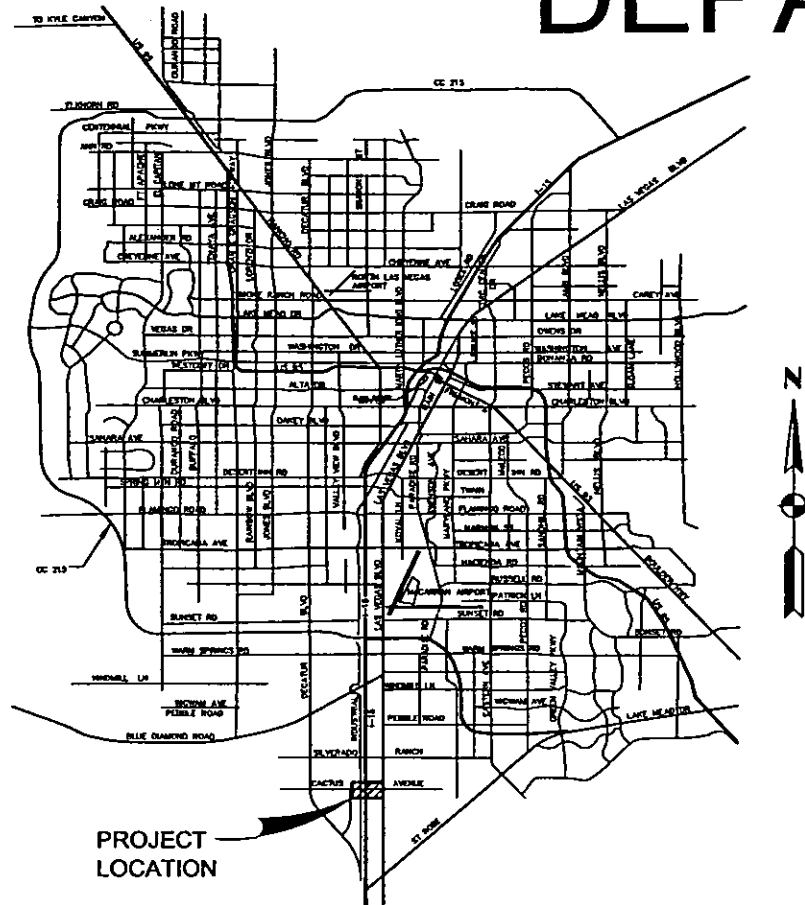


DEPARTMENT OF PUBLIC WORKS



Vicinity Map
NOT TO SCALE



"Progress as Promised"

2008

IMPROVEMENT PLANS FOR CACTUS AVENUE/I-15 INTERCHANGE

Index of Sheets

1	COVER
2	GENERAL NOTES, LEGEND AND ABBREVIATIONS
RS-1 - RS-3	RECORD OF SURVEY
HC-1 - HC-2	HORIZONTAL CONTROL PLAN
R-1 - R-9	REMOVAL PLANS
Q-1	ESTIMATE OF QUANTITIES
TY-1 - TY-4	TYPICAL SECTIONS
C-1 - C-9	CONSTRUCTION PLANS
P-1 - P-8	PROFILES
DT-1 - DT-5	ROADWAY DETAILS
SD-101 - SD-109	DRAINAGE PLANS
SD-201 - SD-213	DRAINAGE PROFILES
SD-301 - SD-310	DRAINAGE DETAILS
UN-1	UTILITY NOTE SHEET
U-1 - U-14	UTILITY PLANS / PROFILES
UD-1 - UD-2	UTILITY DETAILS
ST-1 - ST-8	STRIPING PLANS
TS-1 - TS-18	SIGNING PLANS
L-1 - L-13	LIGHTING PLANS
T-1 - T-11	TRAFFIC SIGNAL PLANS
IT-1 - IT-9	ITS PLANS
RW-1	RETAINING WALL PLAN / PROFILE
B-101 - B127	CACTUS AVE / I-15 STRUCTURE

County Manager

Virginia Valentine

Director of Public Works

Approved:

Denis Cederburg, PE

Regional Transportation Commission
of Southern Nevada

Approved:

Jacob L. Snow, General Manager

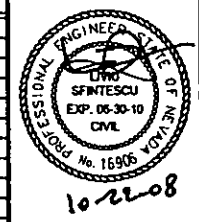
County Commissioners

- Rory Reid, Chairman
- Chip Maxfield, Vice Chairman
- Susan Brager
- Tom Collins
- Chris Giunchigliani
- Lawrence Weekly
- Bruce L Woodbury

FUNDED BY
X

**70% PRELIMINARY
OCTOBER 22, 2008**

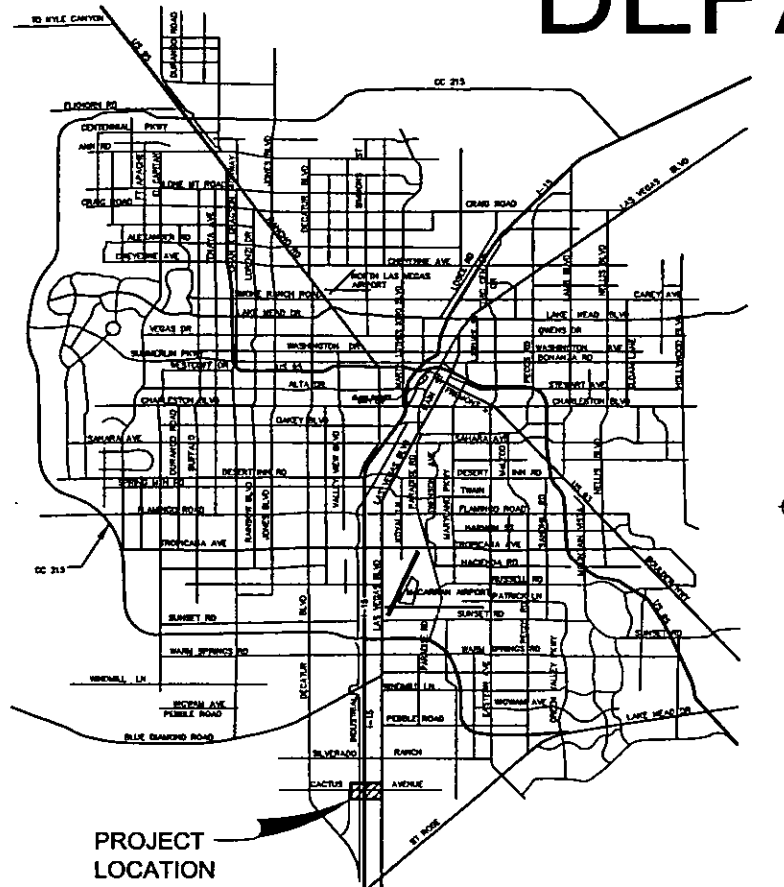
AGENCY	PLANS REVIEWED BY	DATE	DEPARTMENT OF PUBLIC WORKS	BY	DATE	REVISIONS		
						NUMBER	DESCRIPTION	DATE
LAS VEGAS VALLEY WATER DISTRICT			DESIGN ENGINEERING DIVISION					
SOUTHWEST GAS CORPORATION			CONSTRUCTION MANAGEMENT DIVISION					
NEVADA POWER COMPANY (TRANSMISSION)			MAINTENANCE MANAGEMENT DIVISION					
NEVADA POWER COMPANY (DISTRIBUTION)			TRAFFIC MANAGEMENT DIVISION					
CLARK COUNTY WATER RECLAMATION DISTRICT			COUNTY SURVEYOR'S OFFICE					
EMBARQ COMMUNICATIONS								
COX COMMUNICATIONS, LAS VEGAS, INC								
AMERICAN FIBER SYSTEMS								
TVI TELECOM, INC								
F.A.S.T.								



DESIGN ENGINEERING DIVISION
COVER SHEET
L-XXXX

CACTUS AVENUE/I-15 INTERCHANGE

DEPARTMENT OF PUBLIC WORKS



Vicinity Map
NOT TO SCALE



"Progress as Promised"

2008

IMPROVEMENT PLANS FOR CACTUS AVENUE/I-15 INTERCHANGE

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B-101 - B127	CACTUS AVE / I-15 STRUCTURE

County Manager

Virginia Valentine

Director of Public Works

Approved:

Denis Cederburg, PE

Regional Transportation Commission
of Southern Nevada

Approved:

Jacob L. Snow, General Manager

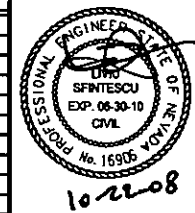
County Commissioners

- Rory Reid, Chairman
- Chip Maxfield, Vice Chairman
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- Lawrence Weekly
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FUNDED BY
X

**70% PRELIMINARY
OCTOBER 22, 2008**

AGENCY	PLANS REVIEWED BY	DATE	DEPARTMENT OF PUBLIC WORKS	BY	DATE	REVISIONS		
						NUMBER	DESCRIPTION	DATE
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SOUTHWEST GAS CORPORATION			CONSTRUCTION MANAGEMENT DIVISION					
NEVADA POWER COMPANY (TRANSMISSION)			MAINTENANCE MANAGEMENT DIVISION					
NEVADA POWER COMPANY (DISTRIBUTION)			TRAFFIC MANAGEMENT DIVISION					
CLARK COUNTY WATER RECLAMATION DISTRICT			COUNTY SURVEYOR'S OFFICE					
EMBARQ COMMUNICATIONS								
COX COMMUNICATIONS, LAS VEGAS, INC								
AMERICAN FIBER SYSTEMS								
TW TELECOM, INC								
F.A.S.T.								



DESIGN ENGINEERING DIVISION

COVER SHEET

L-XXXX

CACTUS AVENUE/I-15 INTERCHANGE
BID NO.: 0000-XX

GENERAL NOTES:

- ALL REFERENCES TO STANDARD DRAWINGS ARE TO UNIFORM STANDARD DRAWINGS, CLARK COUNTY AREA (USDCCA) LATEST EDITION UNLESS OTHERWISE SPECIFIED.
- ALL CONSTRUCTION AND MATERIALS FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA, NEVADA" LATEST EDITION, THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA, NEVADA" LATEST EDITION, AND THE NEVADA DEPARTMENT OF TRANSPORTATION "2005 STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION, UNLESS OTHERWISE STATED.
- SIDEWALK RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER USDCCA NO 235. EXACT LOCATIONS OF THE RAMPS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- CURB AND GUTTER WITH A GRADE OF LESS THAN 4/10 OF ONE PERCENT SHALL BE CONSTRUCTED BY FORMING. EACH JOINT SHALL BE CHECKED FOR GRADE PRIOR TO CONSTRUCTION AND WATER TESTED AS SOON AS POSSIBLE AFTER CONSTRUCTION.
- THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND FEES REQUIRED FOR CONSTRUCTION.
- AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY WORK, THE CONTRACTOR SHALL NOTIFY THE ENGINEER, SOILS ENGINEERS, THE CLARK COUNTY PUBLIC WORKS, AND OTHER AFFECTED PUBLIC ENTITIES OF THE SCHEDULED WORK.
- 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 FOR UTILITIES OR STRUCTURES NOT SHOWN AT ACTUAL LOCATIONS ON THE DRAWINGS. SOME EXISTING SERVICE LATERALS ARE NOT SHOWN ON THESE DRAWINGS. CONTRACTOR TO VERIFY THE EXACT LOCATION OF UTILITIES AND CCPW FACILITIES PRIOR TO START OF CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL EXISTING UTILITIES WITHIN THE LIMITS OF CONSTRUCTION, WHETHER OR NOT SAID UTILITIES ARE SHOWN ON THESE PLANS. THIS RESPONSIBILITY INCLUDES CONTACTING UTILITY COMPANIES FOR LOCATIONS OR POTHOLING PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR.
- REMOVAL OR RELOCATION OF POWER POLES, TELEPHONE POLES, JOINTLY-OWNED POLES, AND APPURTENANCES, WHICH INTERFERE WITH IMPROVEMENTS REQUIRED TO BE CONSTRUCTED UNDER THIS CONTRACT, SHALL BE THE RESPONSIBILITY OF THE RESPECTIVE UTILITY COMPANY. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH THE UTILITY COMPANIES FAR ENOUGH IN ADVANCE AS TO NOT IMPACT THE SCHEDULE.
- THE NEVADA POWER COMPANY (NPPCO) SHALL BE RESPONSIBLE FOR THE RELOCATION OF UNDERGROUND OR OVERHEAD POWER LINES THAT INTERFERE WITH THE REQUIRED IMPROVEMENTS AS SHOWN ON THE PLANS.
- THE CONTRACTOR SHALL REPLACE IN KIND ALL SURFACE MATERIALS THAT ARE DISTURBED BY TRENCHING, EXCAVATION, BACKFILLING AND SIMILAR OPERATIONS. THIS SHALL INCLUDE, BUT IS NOT LIMITED TO, REPLACEMENT OF PAVEMENT, SIDEWALK, CURB AND GUTTER, FENCING, DRAINAGE INLETS AND SYSTEMS, AND UTILITIES.
- THE CONTRACTOR SHALL NOT REMOVE TREES, SHRUBS, LAWNS, WALLS, FENCES, SIGNS, STRUCTURES, LIGHTS OR ANY EXISTING IMPROVEMENTS OUTSIDE OF STREET RIGHT-OF-WAY, EXCEPT WHERE REQUIRED TO DO SO BY THE CONTRACT DRAWINGS OR BY THE ENGINEER. REPLACEMENT, RELOCATION OR RECONSTRUCTION OF ALL EXISTING IMPROVEMENTS, INCLUDING SPRINKLER SYSTEMS, LAWNS, FENCES, WALLS, SIGNS, STEPS, SIDEWALK, DRIVEWAYS, LAWN LIGHTS, AND ALL OTHER ITEMS APPLICABLE TO THIS CONTRACT SHALL BE AS REQUIRED BY THE ENGINEER.
- THE CONTRACTOR SHALL VERIFY IN THE FIELD ALL DIMENSIONS, EXISTING CONDITIONS, AND POINTS OF CONNECTION WITH ADJOINING PROPERTY (PUBLIC AND PRIVATE). ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE PROJECT ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE, INGRESS AND EGRESS TO THE PROJECT.
- FINAL ASPHALTIC CONCRETE PAVEMENT SURFACES SHALL BE 1/8 INCH HIGHER THAN THE LIP OF THE GUTTER (INCLUDING PLANTING GAP GRADED UTACS). PAVEMENT SURFACES SHALL BE FLUSH WITH EDGES OF CROSS GUTTERS AND AT WHEELCHAIR RAMPS.
- THE CONTRACTOR SHALL MAINTAIN AN ONGOING PROCESS OF REMOVAL OF ALL SPILLAGE OF EXCAVATION MATERIAL ON ALL PAVED STREETS.
- THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING TRAFFIC SIGNS THAT ARE TO REMAIN IN PLACE. ANY EXISTING TRAFFIC SIGNS THAT ARE NOT IDENTIFIED IN THE PLANS SHALL REMAIN IN PLACE UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL PERMANENT SIGNS SHOWN ON THE PLANS. STREET NAME SIGNS SHALL CONFORM IN THEIR ENTIRETY TO CLARK COUNTY AREA STANDARDS. ALL OTHER SIGNS SHALL BE STANDARD SIZE UNLESS OTHERWISE SPECIFIED ON THE PLANS. ALL POSTS SHALL BE INSTALLED IN ACCORDANCE WITH CLARK COUNTY AREA STANDARDS.
- ALL PERMANENT TRAFFIC CONTROL DEVICES CALLED FOR HEREON SHALL BE IN PLACE AND IN FINAL POSITION PRIOR TO ALLOWING ANY PUBLIC TRAFFIC ONTO THE PORTIONS OF THE ROAD(S) BEING IMPROVED, REGARDLESS OF THE STATUS OF COMPLETION OF PAVING OR OTHER OFF SITE IMPROVEMENTS CALLED FOR.
- ALL PERMANENT TRAFFIC SIGNS FOR CLARK COUNTY ROADWAYS SHALL USE CLASS 6 SHEETING. THE OVERHEAD GUIDE SIGN PANELS SHALL USE TYPE III HIGH INTENSITY RETROREFLECTIVE SHEETING.
- OFFSET DIMENSIONS TO CCPW TYPE L CURB & GUTTER ARE TO BE MEASURED TO BACK OF CURB. OFFSET DIMENSIONS TO GLUE DOWN CURB ARE TO BE MEASURED TO FACE OF CURB.
- EXISTING CONTOURS SHOWN ON CONSTRUCTION PLANS & EXISTING GROUND SHOWN ON PROFILE SHEETS MAY NOT REPRESENT CURRENT CONDITIONS.

ABBREVIATIONS:

AC	ASPHALT CONCRETE PAVEMENT	OC	ON CENTER
ACP	ASBESTOS CEMENT PIPE	OHP/T/C	OVERHEAD POWER, TELEPHONE & CABLE
AD	ALGEBRAIC DIFFERENCE	PC	POINT OF CURVATURE
AHD	AHEAD	PCC	POINT OF COMPOUND CURVATURE (PLAN VIEWS)
AVAR	AIR VACUUM AIR RELEASE	PCCP	PORTLAND CONCRETE CEMENT PAVEMENT
AVE	AVENUE	PE	PERMANENT EASEMENT
BC	BACK OF CURB	PGL	PROFILE GRADE LINE
BCT	BEGIN CURB TRANSITION	PI	POINT OF INTERSECTION
BK	BACK	POC	POINT ON CURVE
BS	BACK SLOPE	POT	POINT ON TANGENT
'CA'	CACTUS AVENUE BASELINE	PRC	POINT OF REVERSE CURVATURE
CCPW	CLARK COUNTY PUBLIC WORKS	PT	POINT OF TANGENCY
CCWRD	CLARK COUNTY WATER RECLAMATION DISTRICT	PVC	POLYVINYL CHLORIDE
CEN	CENTER	PIV	POINT OF VERTICAL INTERSECTION
CL	CENTER LINE	PVMT	PAVEMENT
CLR	CLEAR	R	RADIUS
CONC	CONCRETE	'R1'	RAMP 'R1' BASELINE
CY	CUBIC YARD	'R2'	RAMP 'R2' BASELINE
DCDA	DOUBLE CHECK DETECTOR ASSEMBLY	'R3'	RAMP 'R3' BASELINE
DCSWCS	DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS	'R4'	RAMP 'R4' BASELINE
DCVA	DOUBLE CHECK VALVE ASSEMBLY	RCP	REINFORCED CONCRETE PIPE
DIA	DIAMETER	RD	ROAD
'DM'	DEAN MARTIN DRIVE BASELINE	RPM	RAISED PAVEMENT MARKER
DR	DRIVE	RPPA	REDUCED PRESSURE PRINCIPLE ASSEMBLY
DWG	DRAWING	RT	RIGHT
E	ELECTRIC (UTILITY PLANS)	R/W	RIGHT-OF-WAY
EA	EACH	S	SOUTH
ECT	END CURB TRANSITION	SD	STORM DRAIN
EGL	ENERGY GRADE LINE	SF	SQUARE FOOT
ELEV	ELEVATION	S-G	STEEL GAS
EO	EQUAL	SHLDR	SHOULDER
ETAC	ELECTRIC, TELEPHONE & CABLE	SHT	SHEET
EGST	EXISTING	SL	STREET LIGHT
FG	FINISHED GRADE	SP	SPACE
FL	FLOW LINE	SS	SANITARY SEWER
FS	FORE SLOPE	ST	STREET
G	GAS	STA	STATION
GALV	GALVANIZED	STD	STANDARD
H	HEIGHT	STL	STEEL
HDPE	HIGH DENSITY POLYETHYLENE	S/W	SIDEWALK
HORIZ	HORIZONTAL	SY	SQUARE YARD
HTH	PROPRIETARY DISINFECTANT	T	TELEPHONE LINE
K	K VALUE	TC	TOP OF BACK OF CURB
'L'	L-15 BASELINE	TCE	TEMPORARY CONSTRUCTION EASEMENT
L	LENGTH	TYP	TYPICAL
LF	LINEAR FOOT	UDACS	UNIFORM DESIGN AND CONSTRUCTION STANDARDS
'LN'	L-15 NORTHBOUND BASELINE	UGE	UNDERGROUND ELECTRIC
'LS'	L-15 SOUTHBOUND BASELINE	USDCCA	UNIFORM STANDARD DRAWINGS, CLARK COUNTY AREA
LS	LUMP SUM	VC	VERTICAL CURVE
LT	LEFT	VERT	VERTICAL
LTG	LIGHTING	W	WATER (UTILITY PLANS)
'LP'	LAS VEGAS BOULEVARD BASELINE	WL	WATER LINE
LWVWD	LAS VEGAS VALLEY WATER DISTRICT		
MAX	MAXIMUM		
MIN	MINIMUM		
N	NORTH		
NDOT	NEVADA DEPARTMENT OF TRANSPORTATION		
NDOT CA	NEVADA DEPARTMENT OF TRANSPORTATION CONTROL OF ACCESS		
No.	NUMBER		
NPC	NEVADA POWER COMPANY		
NPI	NO PAY ITEM		
NTS	NOT TO SCALE		

LEGEND:

	REMOVAL ITEM
	CONSTRUCTION ITEM
	MONUMENT
	BASELINE W/STATION
	RIGHT OF WAY
	EASEMENT LINE
	FENCE
	UNDERGROUND UTILITY LINES
	OVERHEAD UTILITY LINES
	UTILITY STUB-OUT
	POTHOLE
	MANHOLE
	WATER OR GAS VALVE
	TELEPHONE AND/OR POWER POLE
	GUY WIRE
	SIGN MOUNTED ON METAL POST
	GROUND MOUNTED SIGN (DUAL SUPPORT)
	ELEVATION
	DROP INLET
	CONDUIT RUN
	TRANSFORMER PAD
	STREET LIGHT

TRAFFIC AND LIGHTING LEGEND AND NOTES:

TRAFFIC SIGNAL NOTES AND LEGEND ARE SHOWN ON SHEET T-1.
LIGHTING NOTES AND LEGEND ARE SHOWN ON SHEET L-1.

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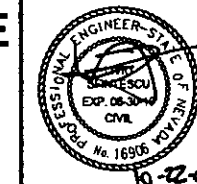
REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
GENERAL NOTES, LEGEND AND ABBREVIATIONS

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PRELIMINARY
70% SUBMITTAL
10/22/2008
NOT FOR CONSTRUCTION



PROJECT No: CB1014 DRAWN BY: GPV
DESIGNED BY: KKC CHECKED BY: LSF
APPROVED BY: TDL

THE Louis Berger Group, INC.
500 AMGO COURT, SUITE 100 *LAS VEGAS, NEVADA *89118
PHONE (702) 736-8832 *FAX (702) 736-0704

SCALE
HORIZ: NONE
VERT: NONE
FIELD BOOK: NONE
WORK ORDER: 2008-

SHEET No
2



LEGEND

- SECTION LINE
- QUARTER SECTION LINE
- SIXTEENTH SECTION LINE
- CENTERLINE
- TIE LINE

○ MONUMENT FOUND AS NOTED WITH MAP REFERENCE

◇ REBAR AND 2" ALUMINUM CAP "BK JEFFERSON
PLS 8421" FOUND RS 154/98

▲ REBAR AND 1" YELLOW PLASTIC CAP "FULSTONE
PLS 5269" FOUND RS 151/85

▲ REBAR AND 1" YELLOW PLASTIC CAP "PLS 5269" FOUND

◇ REBAR AND 1 1/2" ALUMINUM CAP "D. HILL
PLS 9389" FOUND RS 149/82

- NOT A PART OF THIS SURVEY
- FND FOUND
- AL ALUMINUM
- (ILLEG) ILLEGIBLE
- RS // // RECORD OF SURVEY, FILE AND PAGE
- PM // // PARCEL MAP, FILE AND PAGE

BASIS OF BEARINGS

S 00° 37' 47" E, BEING THE EASTERLY LINE OF THE NORTHEAST QUARTER (NE 1/4) OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 32, TOWNSHIP 22 SOUTH, RANGE 61 EAST, M.D.M., CLARK COUNTY, NEVADA, PER A MAP ON FILE WITH THE CLARK COUNTY RECORDER IN FILE 100, PAGE 65 OF SURVEYS.

REFERENCES

RECORD OF SURVEY		PARCEL MAP		SUBDIVISION	
FILE	PAGE	FILE	PAGE	BOOK	PAGE
9	67	12	5	113	34
10	21	49	43	130	29
17	61	67	39		
25	68	68	90		
30	32	69	50		
36	70	70	70		
41	28	71	96		
71	58	72	51		
100	65	76	96		
109	65	79	36		
115	90	79	39		
121	72	83	67		
122	84	101	38		
138	4				
145	24				
149	82				
151	85				
152	13				
154	98				

BUREAU OF LAND MANAGEMENT
SUPPLEMENTAL PLAT SECTION 28, T 22 S, R 61 E, M.D.M. 1955
SUPPLEMENTAL PLAT SECTION 33, T 22 S, R 61 E, M.D.M. 1955

SURVEYOR'S CERTIFICATE

I, WILLIAM T. AVERY, A PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF NEVADA, AS AGENT FOR WESCO SURVEYS, INC., DO HEREBY CERTIFY THAT:

1. THIS PLAT REPRESENTS THE RESULTS OF A SURVEY CONDUCTED UNDER MY DIRECT SUPERVISION AT THE INSTANCE OF CLARK COUNTY DEPARTMENT OF PUBLIC WORKS.
2. LANDS SURVEYED LIE WITHIN A PORTION OF THE S 1/2 OF SEC. 29, T. 22 S., R. 61 E., AND THE N 1/2 OF SEC. 32, T. 22 S., R. 61 E., M.D.M., CLARK COUNTY, NEVADA AND THIS SURVEY WAS COMPLETED ON OCTOBER 30, 2006.
3. THIS PLAT COMPLIES WITH THE APPLICABLE STATUTES OF THIS STATE AND ANY LOCAL ORDINANCES IN EFFECT ON THE DATE THAT THE SURVEY WAS COMPLETED, AND THE SURVEY WAS CONDUCTED IN ACCORDANCE WITH CHAPTER 625 OF THE NEVADA ADMINISTRATIVE CODE.
4. THE MONUMENTS DEPICTED ON THE PLAT ARE OF THE CHARACTER SHOWN, OCCUPY THE POSITIONS INDICATED, AND ARE OF SUFFICIENT NUMBER AND DURABILITY.

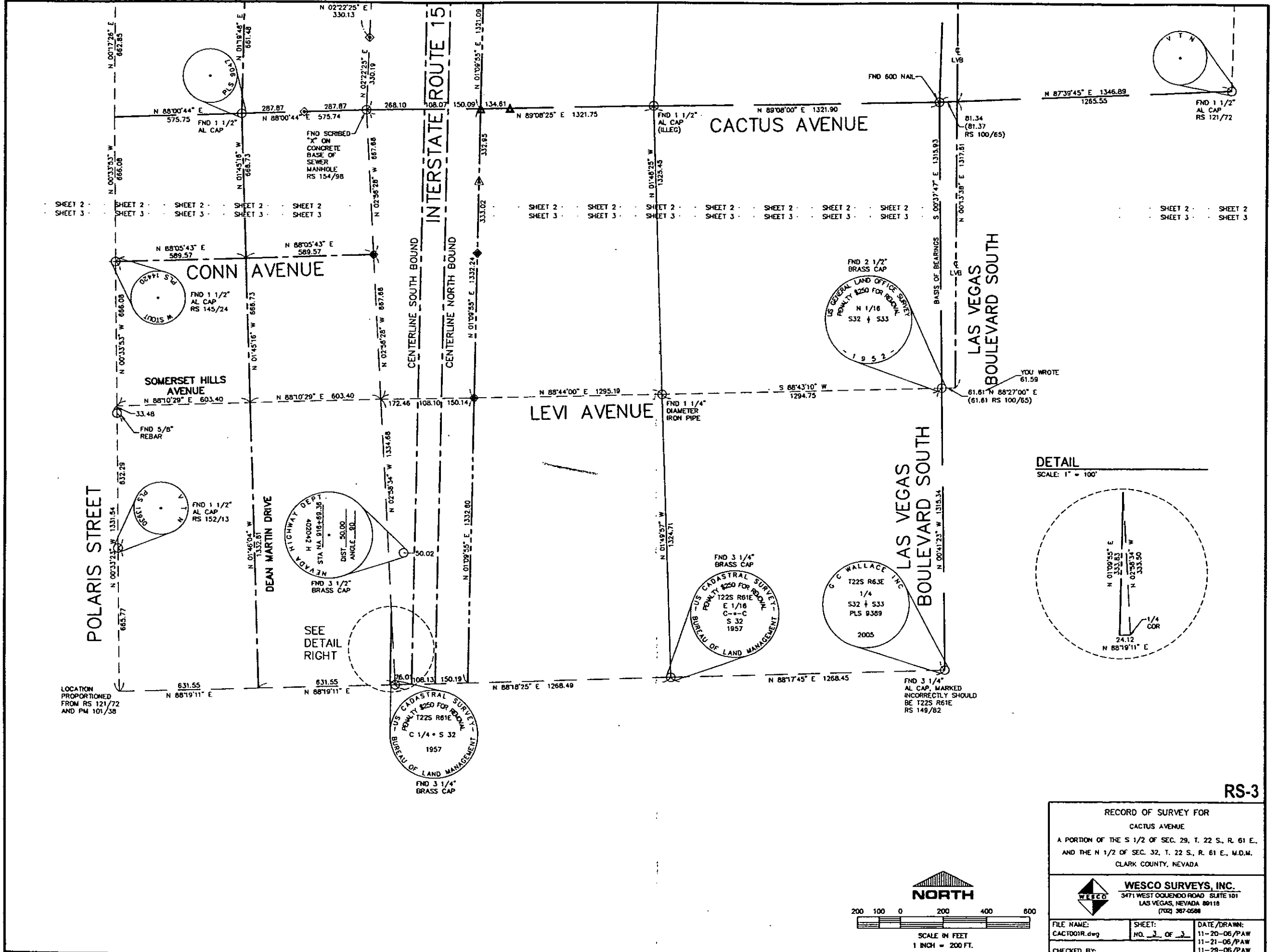


WILLIAM T. AVERY
PROFESSIONAL LAND SURVEYOR
NEVADA CERTIFICATE NO. 5571
DATE 11-30-06

ANY SUBSEQUENT CHANGES TO THIS MAP SHOULD BE EXAMINED AND MAY BE DETERMINED BY REFERENCE TO THE COUNTY RECORDER'S CUMULATIVE MAP INDEX. N.R.S. 27B.5695

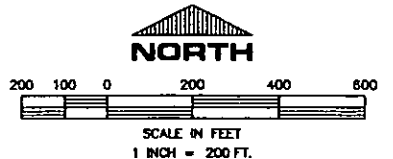
RS-1

RECORD OF SURVEY FOR CACTUS AVENUE A PORTION OF THE S 1/2 OF SEC. 29, T. 22 S., R. 61 E., AND THE N 1/2 OF SEC. 32, T. 22 S., R. 61 E., M.D.M., CLARK COUNTY, NEVADA		NO. _____ FILED AT THE REQUEST OF: WESCO SURVEYS, INC. DATE _____ AT _____ FILE _____ PAGE _____ OF SURVEYS OFFICIAL RECORDS BOOK NO. _____
WESCO SURVEYS, INC. 3471 WEST OQUENDO ROAD SUITE 101 LAS VEGAS, NEVADA 89118 (702) 367-0588		CLARK COUNTY, NEVADA RECORDS CHARLES D. HARVEY, RECORDER FEE \$ _____ DEPUTY _____
FILE NAME: CACT001R.dwg	SHEET: NO. 1 OF 3	DATE/DRAWN: 11-20-06/PAW 11-21-06/PAW 11-29-06/PAW
CHECKED BY: _____		



DETAIL
SCALE: 1" = 100'

LOCATION
PROPORTIONED
FROM RS 121/72
AND PM 101/38



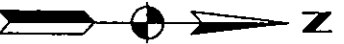
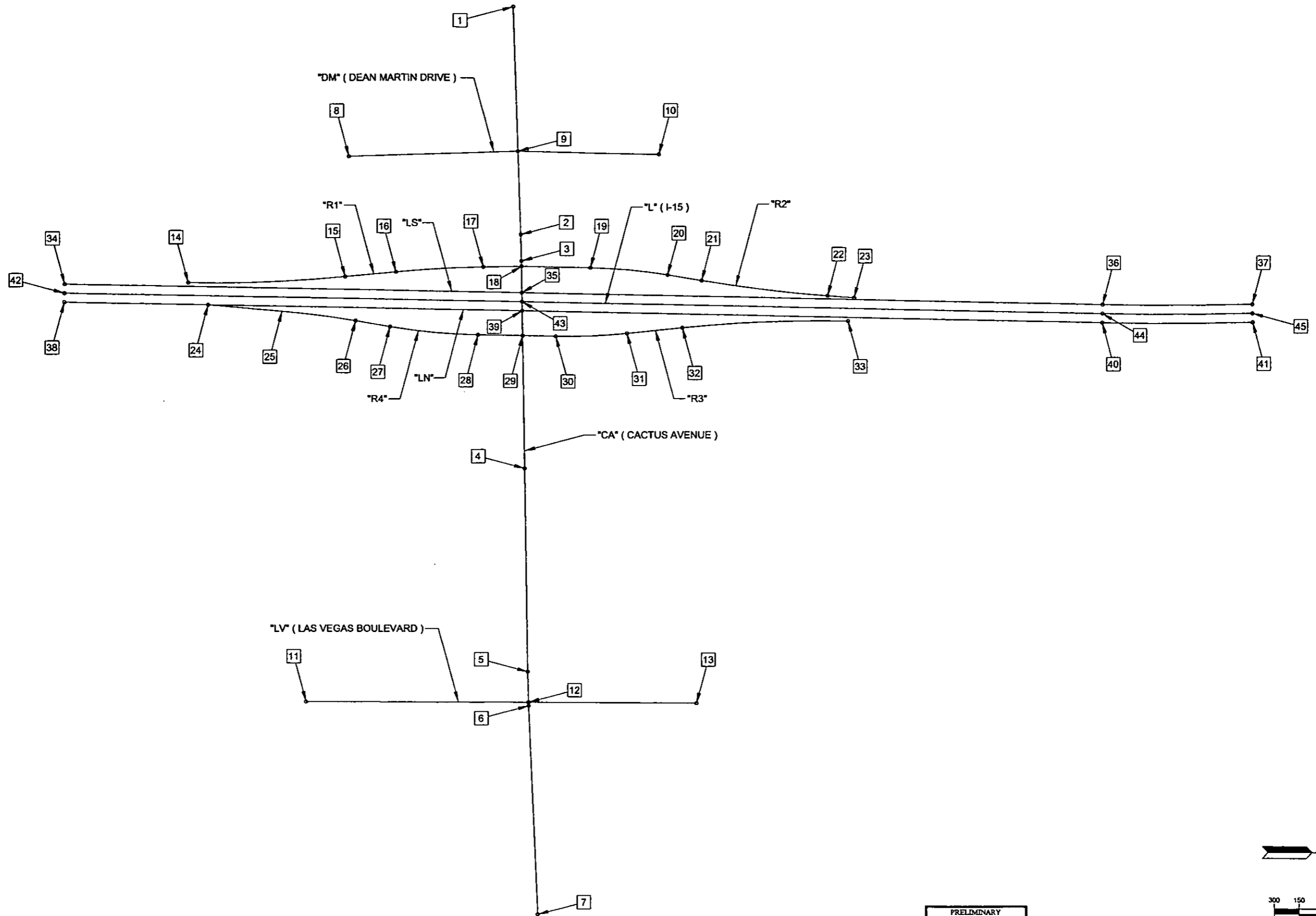
RECORD OF SURVEY FOR
CACTUS AVENUE
A PORTION OF THE S 1/2 OF SEC. 29, T. 22 S., R. 61 E.
AND THE N 1/2 OF SEC. 32, T. 22 S., R. 61 E., M.D.M.
CLARK COUNTY, NEVADA

WESCO SURVEYS, INC.
3471 WEST OQUEENDO ROAD SUITE 101
LAS VEGAS, NEVADA 89118
(702) 367-0588

FILE NAME: CACT001R.dwg	SHEET: NO. 3 OF 3	DATE/DRAWN: 11-20-06/PAW 11-21-06/PAW 11-29-06/PAW
CHECKED BY:		

RS-3

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 REFERENCE FILES:



REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE

DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
HORIZONTAL CONTROL PLAN

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION



PROJECT No: CB1014 DRAWN BY: WSH
 DESIGNED BY: KK CHECKED BY: LSF
 APPROVED BY: TDL

THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 *LAS VEGAS, NEVADA *89119
 PHONE (702) 736-8832 *FAX (702) 736-0704

SCALE
 HORIZ: AS SHOWN
 VERT: NONE
 FIELD BOOK: NONE
 WORK ORDER: 2008-

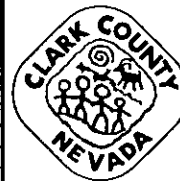
SHEET No
HC-1

PLOT DATE: Wednesday, July 23, 2008 4:30:32 PM
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 REFERENCE FILES

CALCULATED CONTROL POINTS			
NO.	NORTHING	EASTING	DESCRIPTION
1	706515.0959	73659.1578	"CA" 10+00.00 P.O.T.
2	706562.2879	75018.8166	"CA" 23+60.48 P.C.
3	706566.2019	75176.2983	"CA" 25+18.01 P.T.
4	706584.8499	76419.1375	"CA" 37+60.99 \sphericalangle
5	706603.2931	77638.2251	"CA" 49+80.22 P.C.
6	706609.0339	77843.4812	"CA" 51+85.56 P.T.
7	706659.7780	79086.6625	"CA" 64+29.78 P.O.T.
8	705545.4187	74552.7573	"DM" 10+00.00 P.O.T.
9	706545.0489	74522.1397	"DM" 20+00.00 \sphericalangle "CA" 18+63.50 P.O.T.
10	707378.5454	74541.4923	"DM" 28+33.82 P.O.T.
11	705290.6612	77816.9403	"LV" 10+00.00 P.O.T.
12	706608.1637	77822.1624	"CA" 51+64.22 P.O.C. = "LV" 23+17.51 \sphericalangle
13	707602.7168	77826.1254	"LV" 33+12.07 P.O.T.
14	704593.3888	75303.4152	"R1" 10+23.26 P.C. = "LS" 367+30.82 P.O.T., 22.00' RT
15	705523.1645	75268.8815	"R1" 19+54.18 P.T.
16	705825.1783	75240.2286	"R1" 22+57.55 P.C.
17	706341.5773	75211.9035	"R1" 27+74.87 P.T.
18	706566.6855	75208.5259	"CA" 25+50.24 P.O.T. = "R1" 30+00.00 P.O.T. BK. = "R2" 30+00.00 P.O.T. AHD.
19	706973.5381	75216.8024	"R2" 34+06.94 P.C.
20	707431.8021	75259.7588	"R2" 38+67.62 P.T.
21	707632.4791	75293.5020	"R2" 40+71.11 P.C.
22	708387.4377	75384.2537	"R2" 48+31.79 P.T.
23	708546.5033	75395.8347	"R2" 49+91.27 P.O.T. = "LS" 406+85.00 P.O.T., 10.00' RT
24	704682.8319	75433.2612	"R4" 11+26.92 P.O.T. = "LN" 368+51.46 P.O.T.
25	705149.1282	75475.4443	"R4" 15+66.48 P.C.
26	705584.8157	75532.4825	"R4" 20+06.00 P.T.
27	705789.2277	75567.5990	"R4" 22+13.41 P.C.
28	706310.6356	75617.4064	"R4" 27+37.68 P.T.
29	706572.9005	75622.7415	"CA" 29+64.50 P.O.T. = "R4" 30+00.00 P.O.T. BK. = "R3" 30+00.00 P.O.T. AHD.
30	706768.3778	75626.7181	"R3" 31+95.52 P.C.
31	707190.6800	75609.4138	"R3" 36+18.44 P.T.
32	707518.7438	75575.7532	"R3" 39+48.23 P.C.
33	708510.2359	75535.1259	"R3" 49+41.17 P.O.T. = "LN" 406+51.57, 22.00' LT

CALCULATED CONTROL POINTS			
NO.	NORTHING	EASTING	DESCRIPTION
34	703862.2714	75310.5468	"LS" 360+00.00 P.O.T.
35	706569.0414	75365.6099	"LS" 387+07.33 P.O.T. = "CA" 27+07.34 P.O.T.
36	710044.9722	75436.3197	"LS" 421+83.98 P.C.
37	710941.0254	75434.4708	"LS" 430+80.11 P.T. BK. = "LSe" 244+94.23 P.T. AHD.
38	703860.0748	75418.5245	"LN" 360+00.00 P.O.T.
39	706570.6640	75473.6652	"LN" 387+11.15 P.O.T. = "CA" 28+15.41 P.O.T.
40	710042.7757	75544.2974	"LN" 421+83.98 P.C.
41	710943.6684	75542.4385	"LN" 430+84.95 P.T. BK. = "LNe" 244+94.23 P.T. AHD.
42	703861.1731	75364.5357	"L" 360+.00.00 P.O.T.
43	706569.8527	75419.6375	"L" 387+09.24 P.O.T. = "CA" 27+61.38 P.O.T.
44	710043.8740	75490.3085	"L" 421+83.98 P.C.
45	710942.3469	75488.4546	"L" 430+82.53 P.T. BK. = "Le" 244+94.23 P.T. AHD.

REV. NO.	DATE	DESCRIPTION	APPROVED

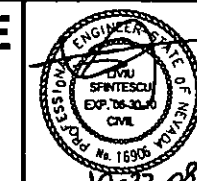


CACTUS AVENUE / I-15 INTERCHANGE

DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
HORIZONTAL CONTROL DATA

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PRELIMINARY
70% SUBMITTAL
10/22/2008
NOT FOR CONSTRUCTION

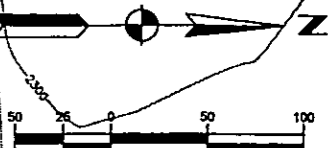


PROJECT No: CB1014 DRAWN BY: GFV
 DESIGNED BY: KK CHECKED BY: LSF
 APPROVED BY: TDL

THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 LAS VEGAS, NEVADA 89119
 PHONE (702) 736-8632 *FAX (702) 736-0704

SCALE
 HORIZ: NONE
 VERT: NONE
 FIELD BOOK: NONE
 WORK ORDER: 2008-

SHEET No
HC-2



Call before you Overhead
 1-702-227-2929
 NEVADA POWER ENVIRONMENT AND SAFETY SERVICES DEPARTMENT
 1-800-227-2600

PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

PROJECT No: CB1014 DRAWN BY: GFV
 DESIGNED BY: HB CHECKED BY: LSF
 APPROVED BY: TDL

THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 LAS VEGAS, NEVADA 89110
 PHONE (702) 736-0832 FAX (702) 736-0704

SCALE		SHEET No R-1
HORIZ:	AS SHOWN	
VERT:	NONE	
FIELD BOOK:	NONE	
WORK ORDER:	2008-	



CACTUS AVENUE / I-15 INTERCHANGE

DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD

REMOVAL PLAN

"CA" 12+00.00 to "CA" 20+50.00

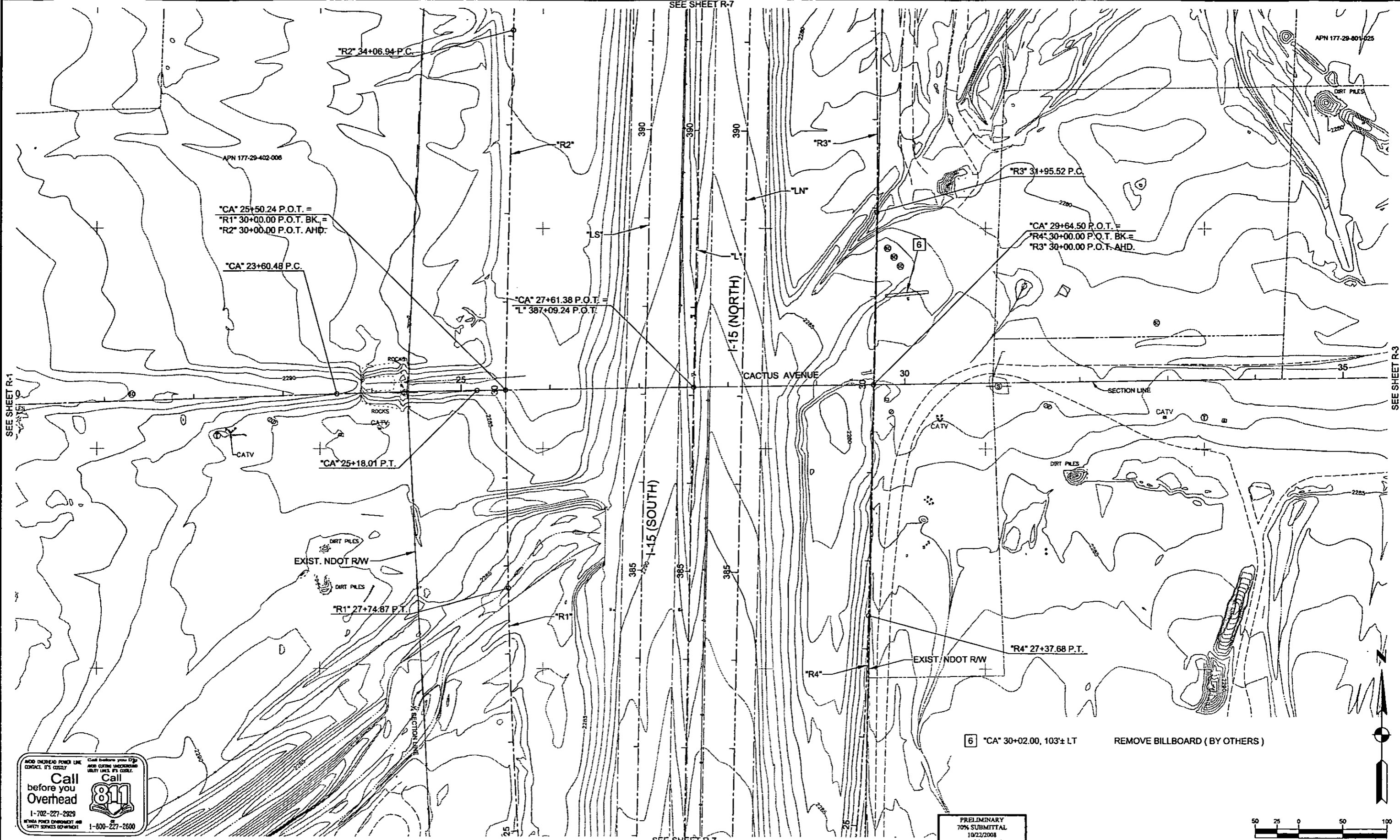
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

REV. NO.	DATE	DESCRIPTION	APPROVED

PLOT DATE: Wednesday, May 20, 2008 8:22:18 PM
 FILE NAME: P:\CADD\114-CACTUS\PLANS\PHASE 2\SHETS\REMOVAL\1014\PHASE 2\ROLL.DWG
 REFERENCE FILES:

SEE SHEET R-7

APN 177-29-801-025



SEE SHEET R-1

SEE SHEET R-3

SEE SHEET R-7

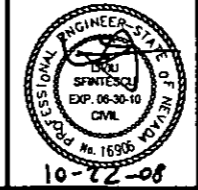
Call before you Overhead
 1-702-227-2929
 1-800-227-2600

Call before you dig
 811
 1-800-227-2600

PRELIMINARY
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 10/22/2008
 NOT FOR CONSTRUCTION



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
REMOVAL PLAN
 "CA" 20+50.00 to "CA" 35+00.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



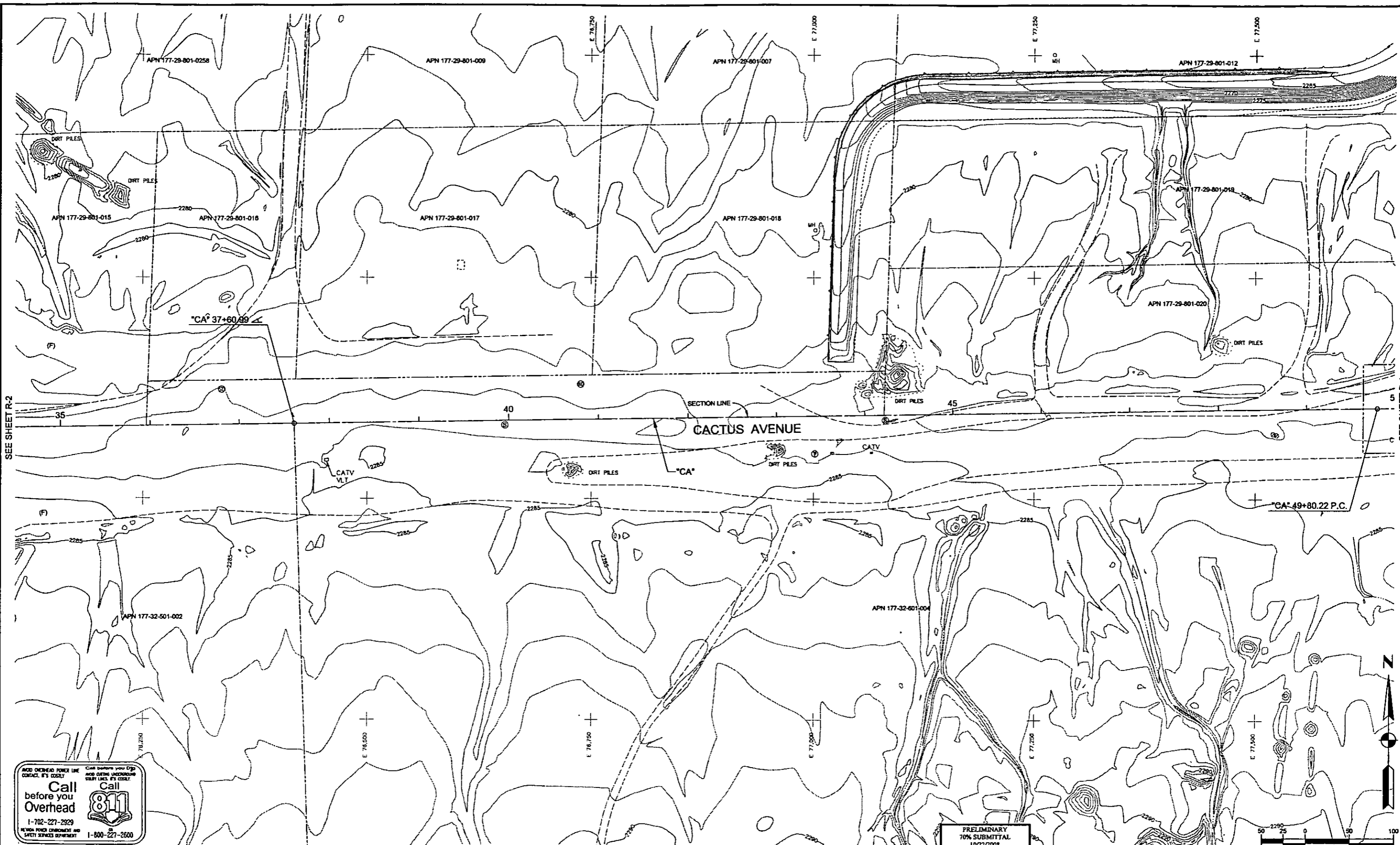
PROJECT No: CB1014 DRAWN BY: GFV
 DESIGNED BY: HB CHECKED BY: LSF
 APPROVED BY: TDL

THE Louis Berger Group, Inc.
 500 AMBRO COURT, SUITE 100 LAS VEGAS, NEVADA 89119
 PHONE (702) 736-8832 * FAX (702) 736-0704

SCALE	SHEET No
HORIZ: AS SHOWN	R-2
VERT: NONE	
FIELD BOOK: NONE	
WORK ORDER: 2008-	

PLOT DATE: Wednesday, 10/22/2008 5:17:14 PM
 FILE NAME: P:\CCPW\101-CACTUS\PLANS\PHASE 2\02.DWG
 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



SEE SHEET R-2

SEE SHEET R-4

AVOID OVERHEAD POWER LINE CONTACT. IT'S COSTLY.
Call before you Overhead
1-702-227-2829
NEVADA POWER CORPORATION AND SAFETY SERVICES DEPARTMENT

Call before you Dig
and Digging Underneath
Utility Lines. It's COSTLY.
Call 811
1-800-227-2600

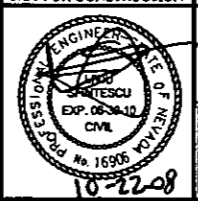
PRELIMINARY
70% SUBMITTAL
10/22/2008
NOT FOR CONSTRUCTION



REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
REMOVAL PLAN
"CA" 35+00.00 to "CA" 49+50.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS




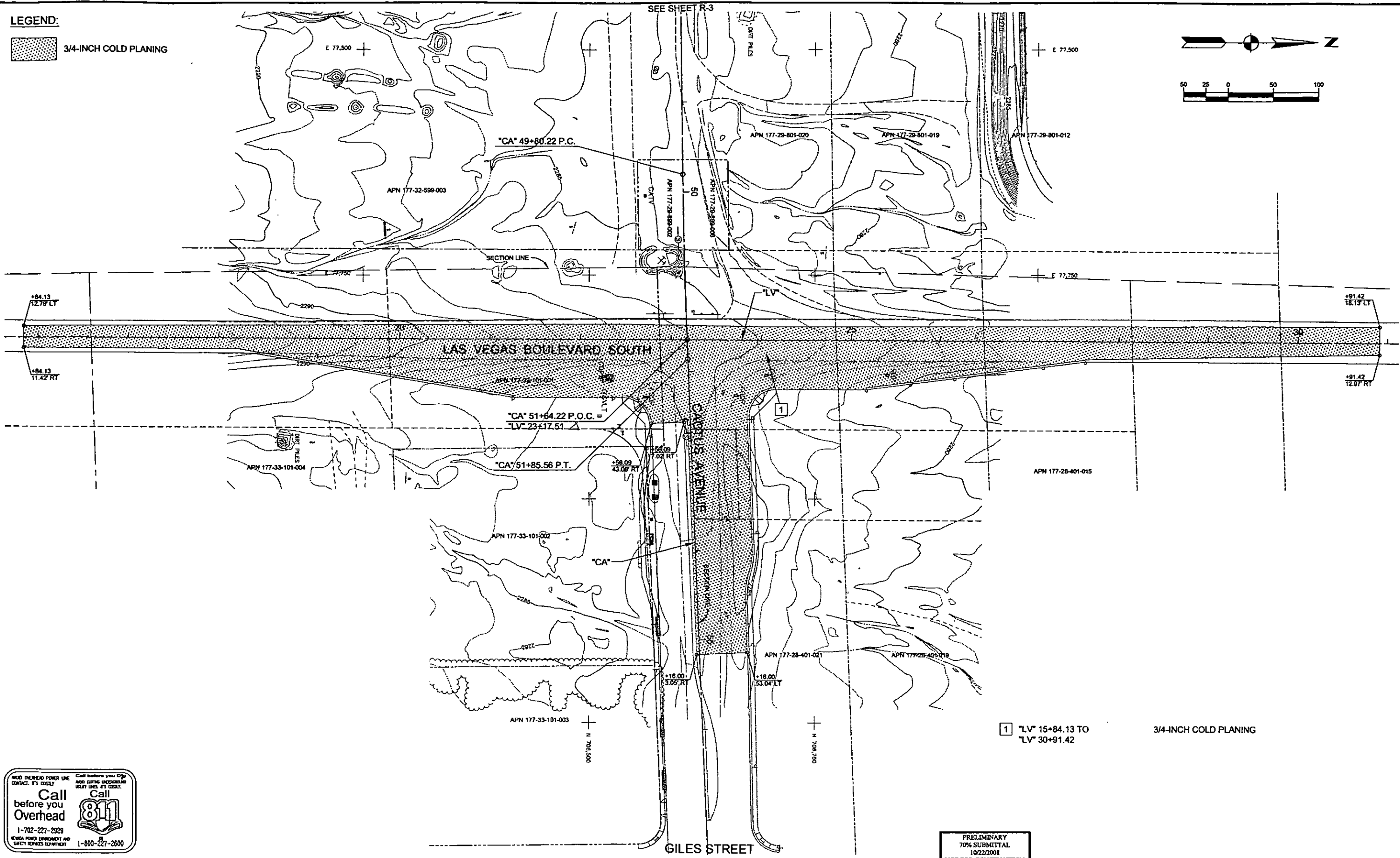
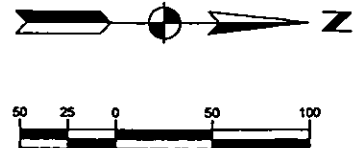
PROJECT No: CB1014 DRAWN BY: GFV
DESIGNED BY: HB CHECKED BY: LSF
APPROVED BY: TDL

THE Louis Berger Group, Inc.
500 AMIGO COURT, SUITE 100 LAS VEGAS, NEVADA 89119
PHONE (702) 736-8832 *FAX (702) 736-0704

SCALE	HORIZ: AS SHOWN	VERT: NONE	FIELD BOOK: NONE	WORK ORDER: 2008-
SHEET No				R-3

PLOT DATE: Wednesday, 10/22/2008 8:00:53 PM
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 REFERENCE FILES:

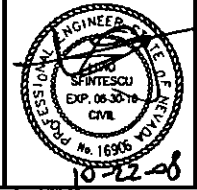
LEGEND:
 3/4-INCH COLD PLANING



1 "LV" 15+84.13 TO "LV" 30+91.42
 3/4-INCH COLD PLANING

Call before you dig
 Call before you dig
 Call before you dig
811
 Call before you dig
 Call before you dig
 Call before you dig
 1-702-227-2929
 1-800-227-2600

PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION



PROJECT No: CB1014 DRAWN BY: GFV
 DESIGNED BY: HB CHECKED BY: LSF
 APPROVED BY: TDL
THE Louis Berger Group, Inc.
 500 AMIGO COURT, SUITE 100 *LAS VEGAS, NEVADA *89119
 PHONE (702) 736-8932 *FAX (702) 736-0704

SCALE		SHEET No R-4
HORIZ:	AS SHOWN	
VERT:	NONE	
FIELD BOOK:	NONE	
WORK ORDER:	2008-	



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
REMOVAL PLAN
 "CA" 49+50.00 to "CA" 57+00.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

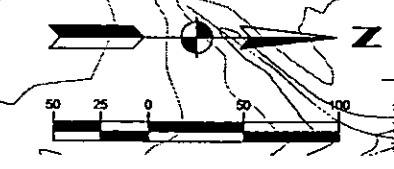
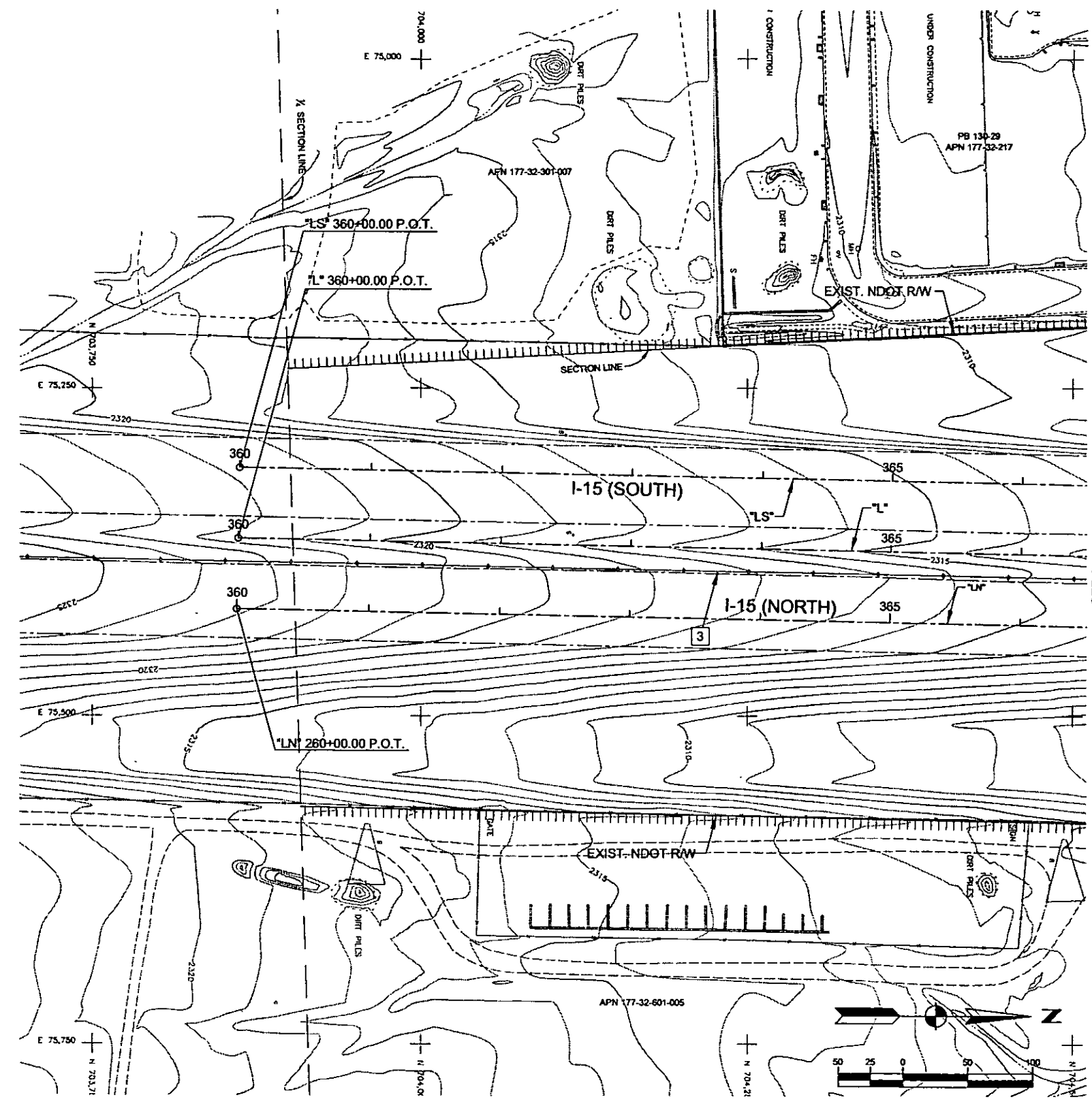
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 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED

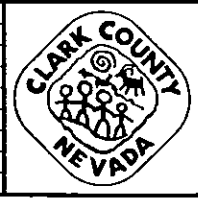
PLOT DATE: Wednesday, July 23, 2008 4:56:33 PM
 FILE NAME: P:\CCTUS\PHASE 2\SHEET\REMOVAL\1181\PHASE 2\REMOVAL.DWG
 REFERENCE FILES:



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 "L" 366+00.00, 17.5± RT

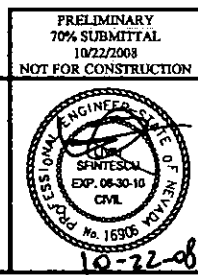


REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE

DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
REMOVAL PLAN
 "L" 360+00.00 to "L" 366+00.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

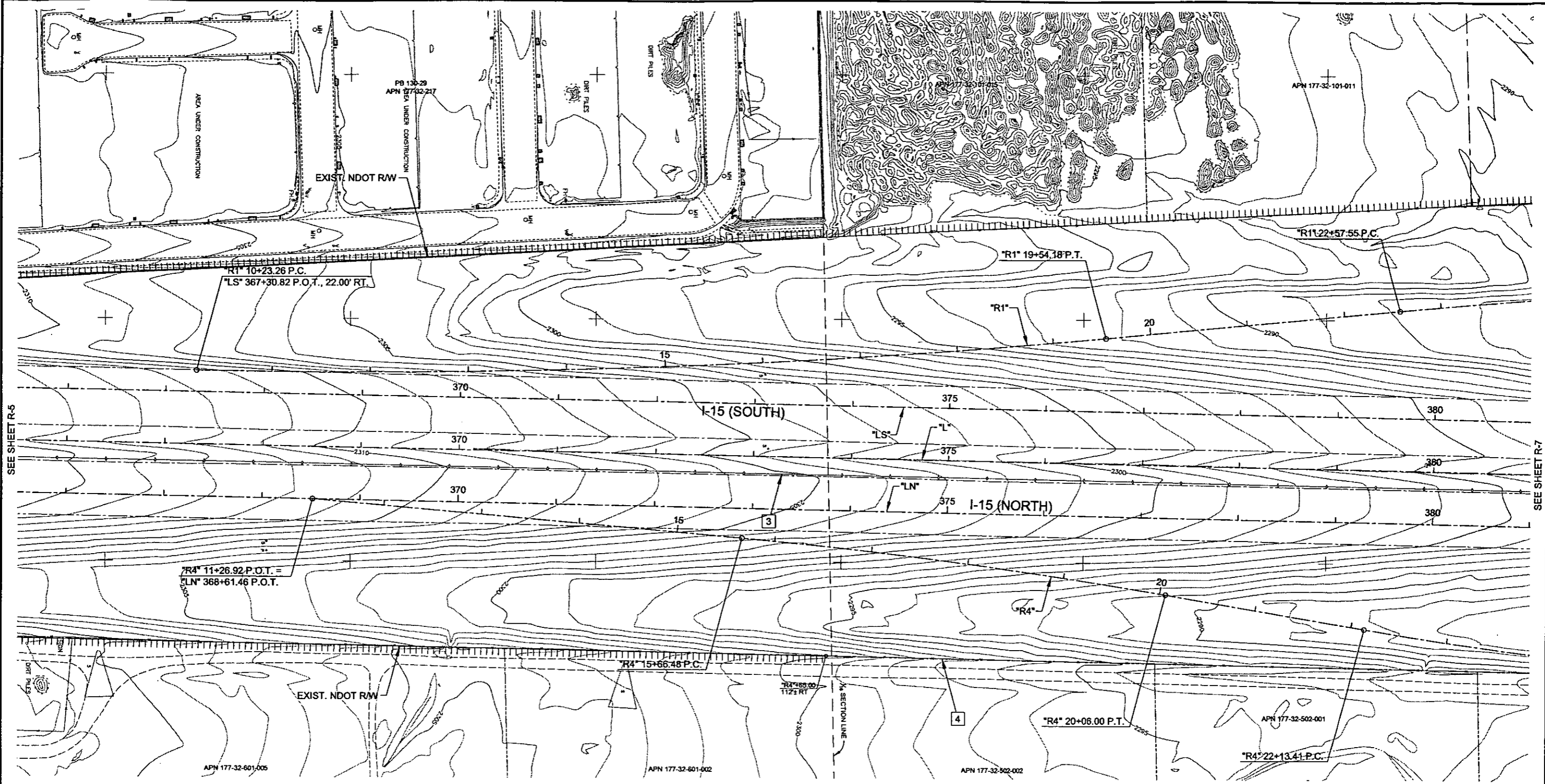


PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

PROJECT No: CB1014 DRAWN BY: GFV
 DESIGNED BY: HB CHECKED BY: LSF
 APPROVED BY: TDL

THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89110
 PHONE (702) 736-6632 • FAX (702) 736-0704

SCALE		SHEET No
HORIZ:	AS SHOWN	R-5
VERT:	NONE	
FIELD BOOK	NONE	
WORK ORDER	2008-	



SEE SHEET R-5

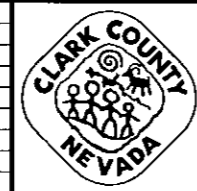
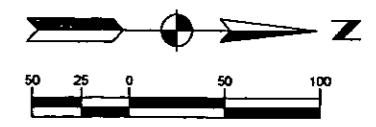
SEE SHEET R-7

- 3 "L" 366+00.00, 17.5± RT TO "L" 380+50.00, 17.5± RT REMOVE PORTABLE PRECAST CONCRETE BARRIER RAIL
- 4 "R4" 16+65.00, 112± RT TO "R4" 23+00.00, 29± RT REMOVE CHAIN LINK FENCE

Call before you Overhead

1-702-227-2929

1-800-227-2600



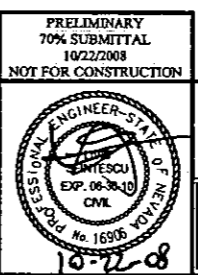
CACTUS AVENUE / I-15 INTERCHANGE

DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD

REMOVAL PLAN

"L"366+00.00 to "L" 380+50.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 1014 DRAWN BY: GFV

DESIGNED BY: HB CHECKED BY: LSF

APPROVED BY: TDL

THE Louis Berger Group, INC.

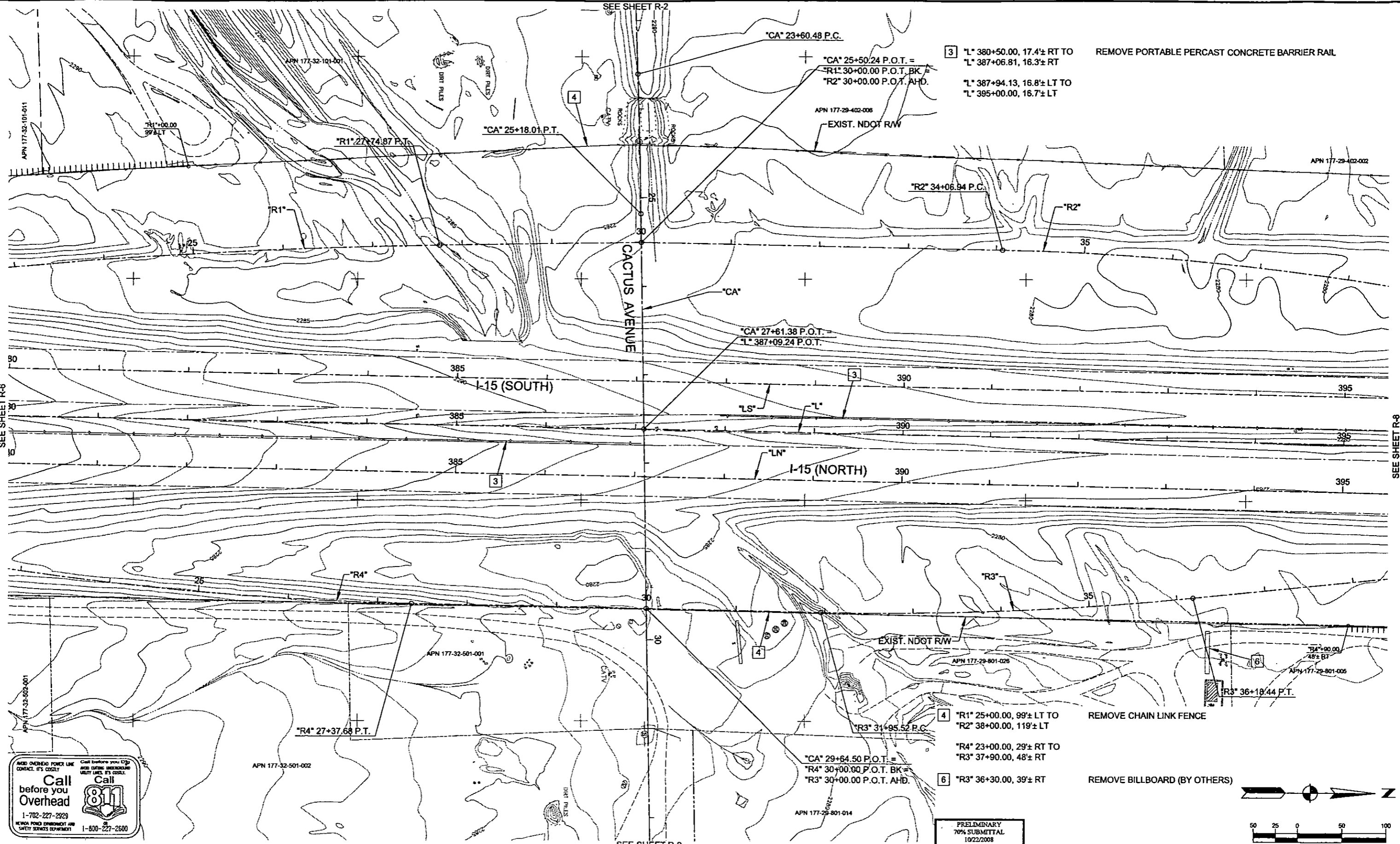
500 ALABAMA COURT, SUITE 100 LAS VEGAS, NEVADA 89118
PHONE (702) 736-8332 * FAX (702) 736-0704

SCALE	SHEET No
HORIZ: AS SHOWN	R-6
VERT: NONE	
FIELD BOOK: NONE	
WORK ORDER: 2008-	

PLOT DATE: Wednesday, 10/22/2008 4:57:32 PM
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 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED

PLOT DATE: Wednesday, 10/29/2008 5:02:48 PM
 FILE NAME: PACCPW\PROJECT\CACTUS\PLANS\PHASE 2\SHEETS\RENOVALI\10-14-PHASE 2-R7.DWG
 REFERENCE FILES:



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 1-702-227-2929
 NEVADA POWER ENVIRONMENT AND SAFETY SERVICES DEPARTMENT
 1-800-227-2600



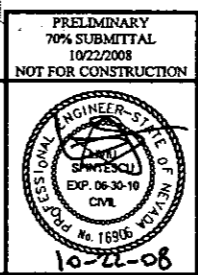
CACTUS AVENUE / I-15 INTERCHANGE

DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD

REMOVAL PLAN

"L" 380+50.00 to "L" 395+00.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



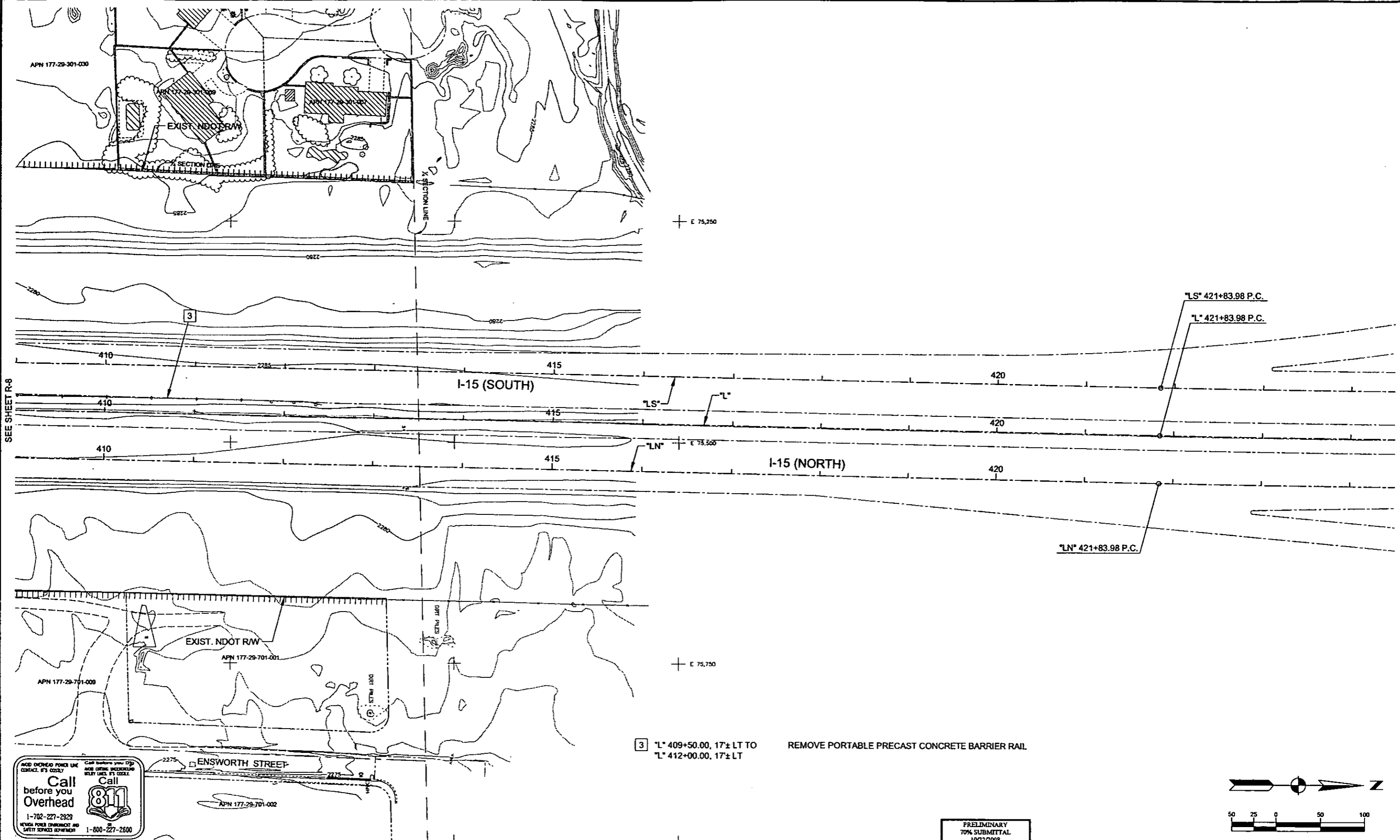
PROJECT No: CB1014 DRAWN BY: GFV
 DESIGNED BY: HB CHECKED BY: LSF
 APPROVED BY: TDL

THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 LAS VEGAS, NEVADA *98119
 PHONE (702) 736-8832 *FAX (702) 736-4704

SCALE	SHEET No
HORIZ: AS SHOWN	R-7
VERT: NONE	
FIELD BOOK: NONE	
WORK ORDER: 2008-	

REV. NO.	DATE	DESCRIPTION	APPROVED

CACTUS AVENUE / I-15 INTERCHANGE



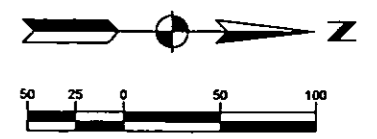
SEE SHEET R-8

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Call 811

NEVADA POWER, ENVIRONMENT AND SAFETY SERVICES REPAIRMENT 1-800-227-2600

[3] "L" 409+50.00, 17± LT TO "L" 412+00.00, 17± LT REMOVE PORTABLE PRECAST CONCRETE BARRIER RAIL



PLOT DATE: Wednesday, 7/24/2008 4:57:18 PM
 FILE NAME: PACCPW011-CACTUSPLANPHASE 23-SHEETREMOVAL1014-PHASE 2-2008.DWG
 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
REMOVAL PLAN
 "L" 409+50.00 to "L" 424+00.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PRELIMINARY
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 10/22/2008
 NOT FOR CONSTRUCTION

10-27-08

PROJECT No: CB1014 DRAWN BY: GFV
 DESIGNED BY: HB CHECKED BY: LSF
 APPROVED BY: TDL

THE Louis Berger Group, Inc.
 500 AMIGO COURT, SUITE 100 LAS VEGAS, NEVADA 89119
 PHONE (702) 736-8032 *FAX (702) 736-0704

SCALE	HORIZ: AS SHOWN	VERT: NONE	FIELD BOOK: NONE	WORK ORDER: 2008-	SHEET No R-9
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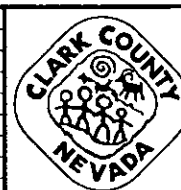
Table with 4 columns: ITEM, DESCRIPTION, QUANTITY, UNIT. Contains items 105.01 through 609.01, including Quality Control, Mobilization, Removal of Structures, Roadway Excavation, and various concrete and pipe structures.

Table with 4 columns: ITEM, DESCRIPTION, QUANTITY, UNIT. Contains items 609.02 through 629.06, including Manholes, Concrete Curb & Gutter, Concrete Sidewalk, Traffic Signal System, and various lighting fixtures.

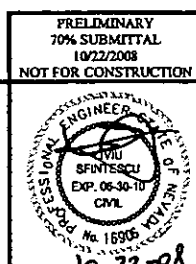
Table with 4 columns: ITEM, DESCRIPTION, QUANTITY, UNIT. Contains items 629.09 through 687.01, including Abandon Valve, Sanitary Sewer Manhole, Steel Casing, Sanitary Sewer Line, Pavement Markings, Reflective Paint, and various electrical and video equipment.

PLOT DATE: Wednesday, 10/22/2008 5:08:13 PM
FILE NAME: P:\CIP\PROJECTS\CACTUS\PLANS\PHASE 2\BASE\MEETS\1114\PHASE 2\QUANTITIES.DWG
REFERENCE FILES:

Table with 4 columns: REV. NO., DATE, DESCRIPTION, APPROVED. Contains revision information for the drawing.

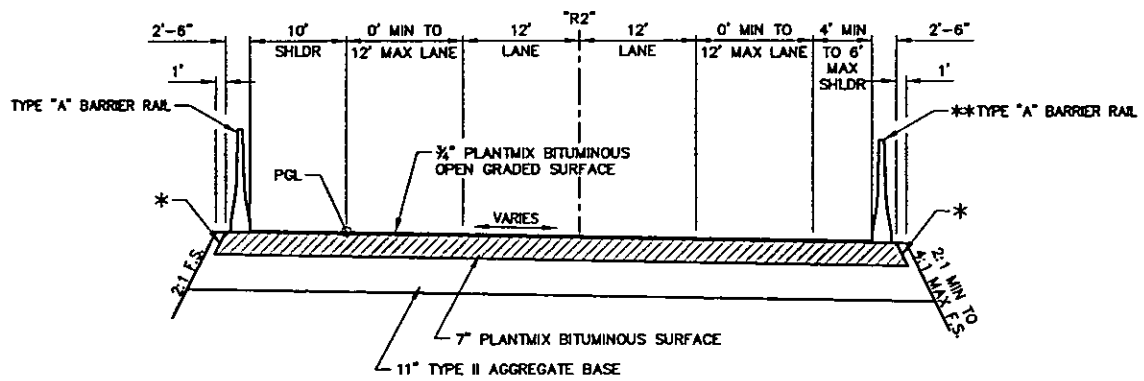


CACTUS AVENUE / I-15 INTERCHANGE
DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
ESTIMATE OF QUANTITIES
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

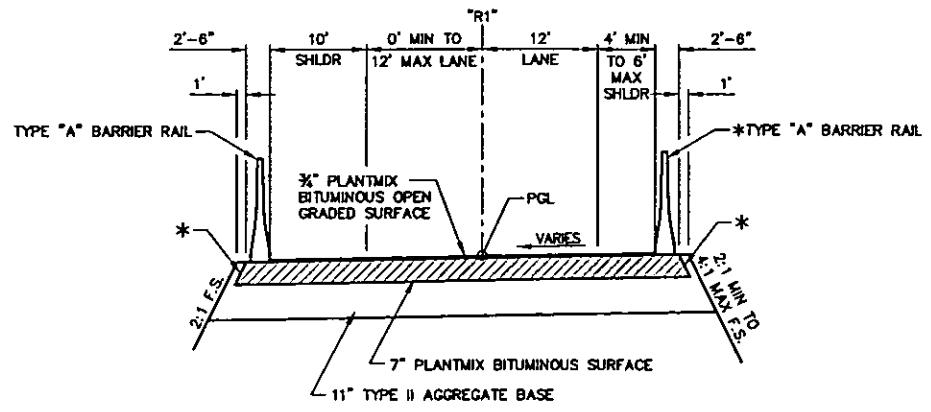


PRELIMINARY 70% SUBMITTAL 10/22/2008 NOT FOR CONSTRUCTION
PROJECT No: CB1014 DRAWN BY: GJV
DESIGNED BY: KK CHECKED BY: LSF
APPROVED BY: TDL
The Louis Berger Group, Inc.
500 AMIGO COURT, SUITE 100 LAS VEGAS, NEVADA 89119
PHONE (702) 736-8832 FAX (702) 736-0704

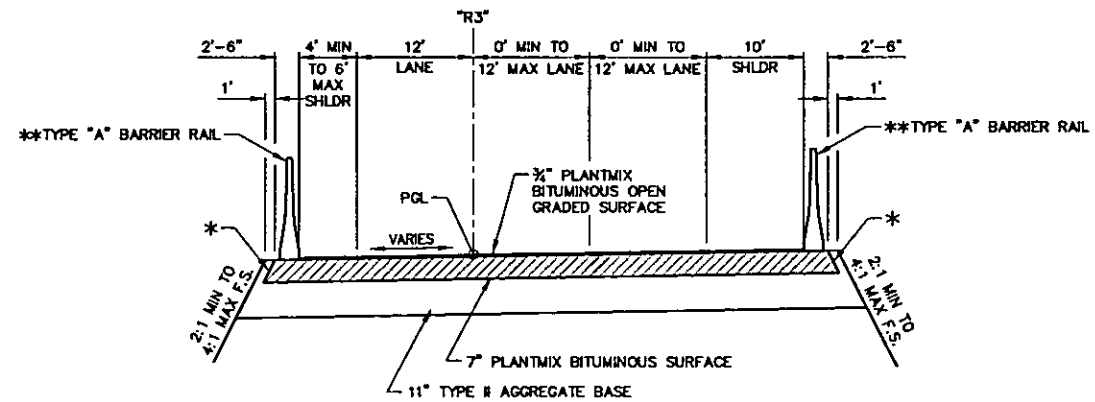
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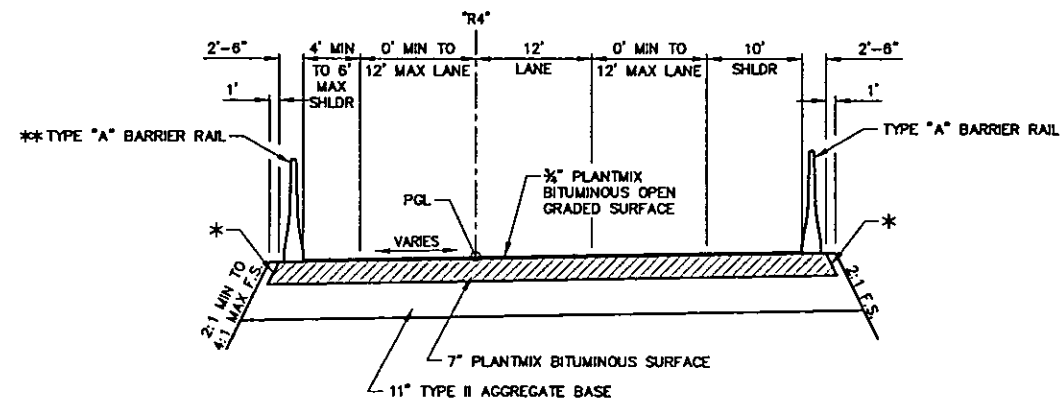
RAMP "R2"
SECTION OF IMPROVEMENT
"R2" 30+54.90 TO "R2" 45+00.15



RAMP "R1"
SECTION OF IMPROVEMENT
"R1" 15+95.33 TO "R1" 29+35.00



RAMP "R3"
SECTION OF IMPROVEMENT
"R3" 30+55.71 TO "R3" 43+66.91



RAMP "R4"
SECTION OF IMPROVEMENT
"R4" 15+62.59 TO "R4" 29+34.53

LEGEND
* ANGLE OF REPOSE

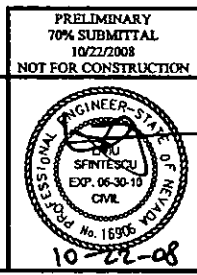
NOTES:
1. SHOULDER WIDTH INCREASED 2' WITH BARRIER RAIL.
2. WHERE WIDTHS VARY, SEE CONSTRUCTION PLANS.
** 3. SEE PLANS FOR LOCATIONS.

PLOT DATE: Wednesday, July 23, 2008 8:25:38 PM
 FILE NAME: P:\CCTUS\08101\CCTUS\PLANS\PHASE 2\SHEETS\014-PHASE 2-TY-01.DWG
 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
TYPICAL SECTIONS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

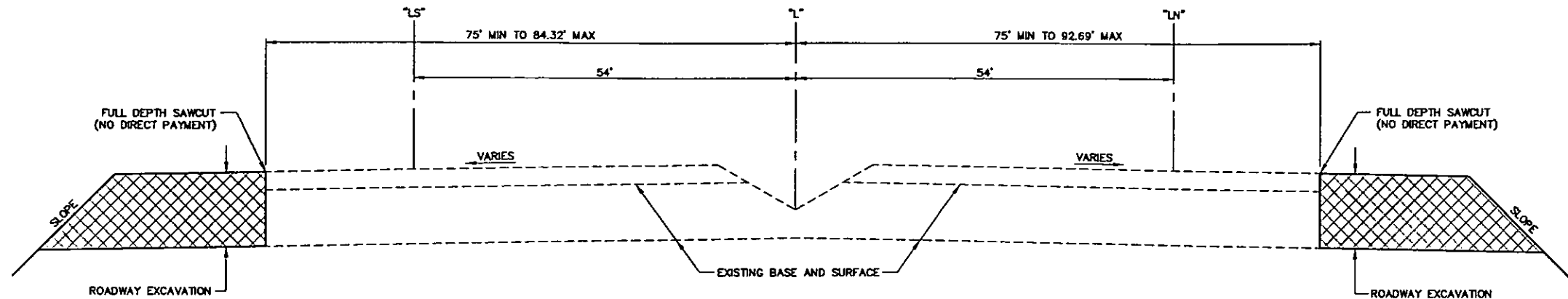


PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

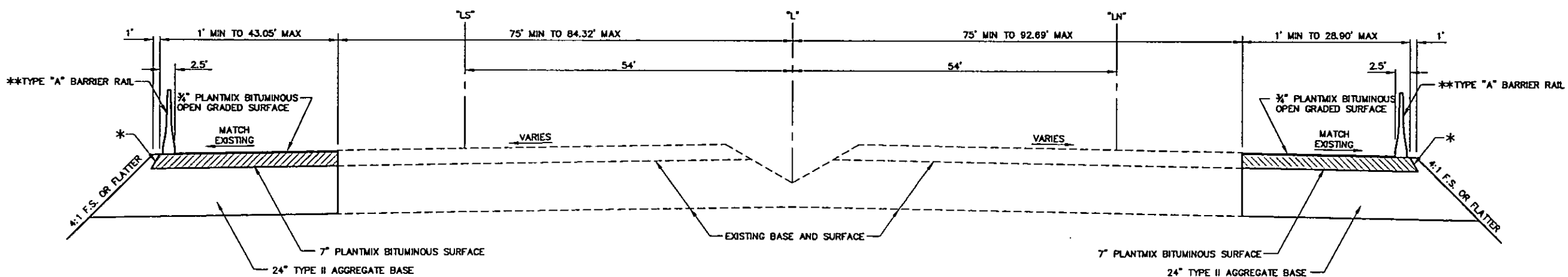
PROJECT No: CB1014 DRAWN BY: JPS
 DESIGNED BY: FK CHECKED BY: LSF
 APPROVED BY: TDL

THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89118
 PHONE (702) 736-0632 • FAX (702) 736-0704

SCALE	SHEET No
HORIZ: NONE	TY-1
VERT: NONE	
FIELD BOOK: NONE	
WORK ORDER: 2008-	



**I-15
AS CONSTRUCTED**
 "L" 361+52.17 LT TO "L" 373+03.83 LT
 "L" 401+93.13 LT TO "L" 421+56.62 LT
 "L" 368+23.59 RT TO "L" 372+86.62 RT
 "L" 400+76.37 RT TO "L" 420+33.54 RT



**I-15
SECTION OF IMPROVEMENT**
 "L" 361+52.17 LT TO "L" 373+03.83 LT
 "L" 401+93.13 LT TO "L" 421+56.62 LT
 "L" 368+23.59 RT TO "L" 372+86.62 RT
 "L" 400+76.37 RT TO "L" 420+33.54 RT

LEGEND
 * ANGLE OF REPOSE

NOTES:
 **1. SEE PLANS FOR LOCATIONS.

PLOT DATE: Wednesday, 7/26/2006 3:35:43 PM
 FILE NAME: PACFWC\B\1\CACTUS\PLANS\PHASE 2\SHRETS\1014-PHASE 2-TY-02.DWG
 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
TYPICAL SECTIONS

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

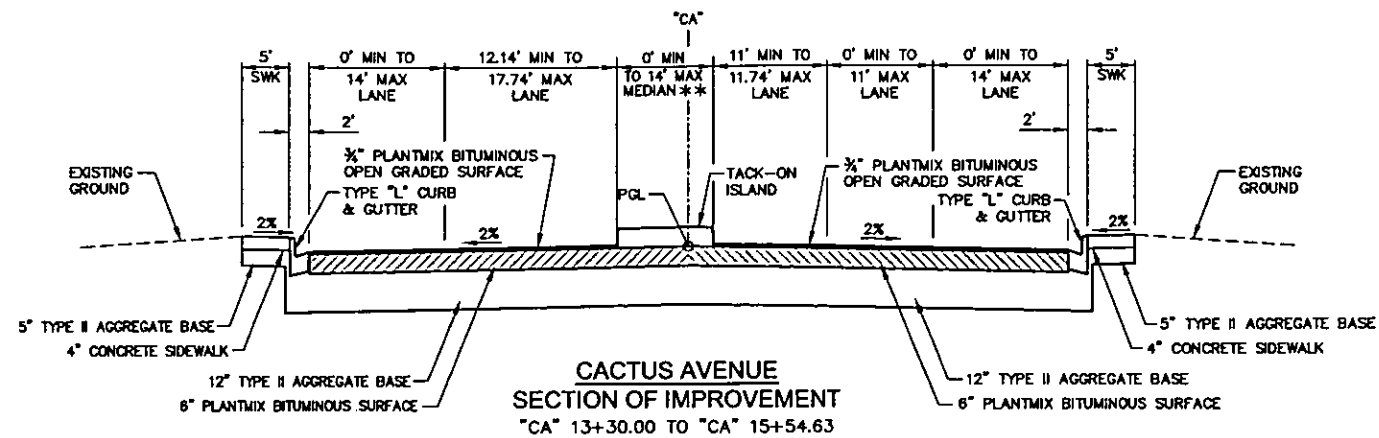


PROJECT No: CB1014 DRAWN BY: JPS
 DESIGNED BY: FK CHECKED BY: LSF
 APPROVED BY: TDL

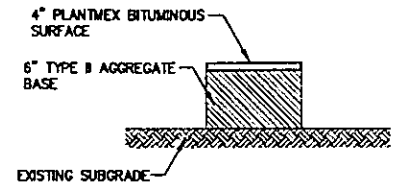
THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 LAS VEGAS, NEVADA 89119
 PHONE (702) 736-8832 * FAX (702) 736-0704

SCALE
 HORIZ: NONE
 VERT: NONE
 FIELD BOOK: NONE
 WORK ORDER: 2008-

SHEET No
TY-2

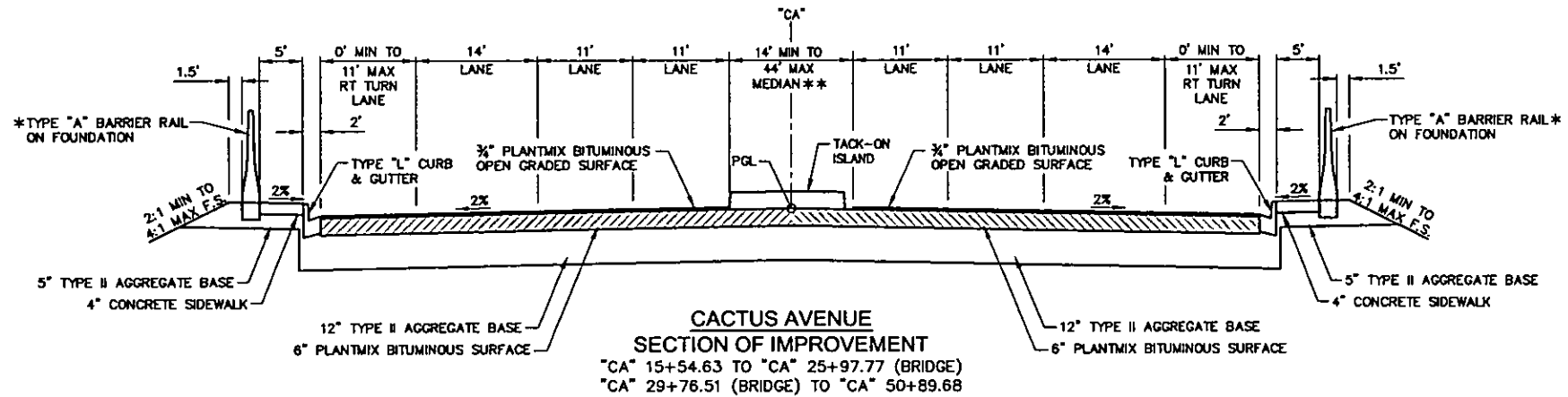


**CACTUS AVENUE
SECTION OF IMPROVEMENT**
"CA" 13+30.00 TO "CA" 15+54.63

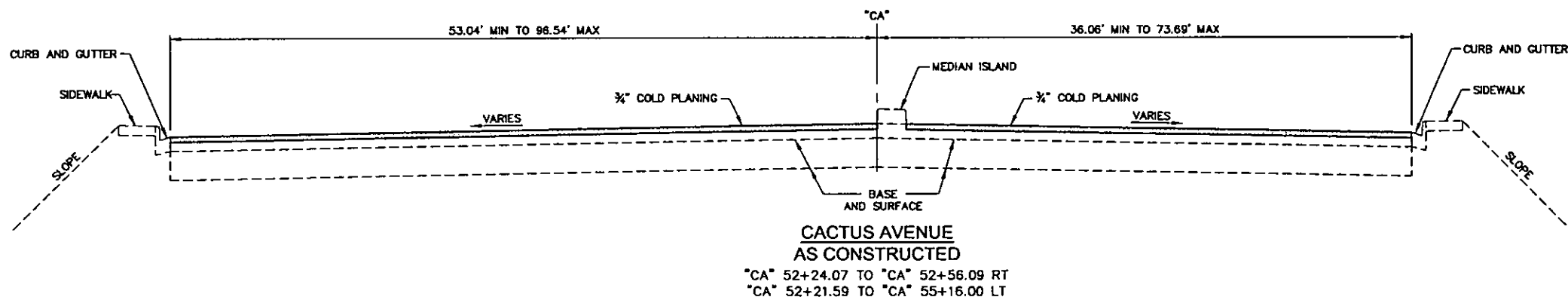


PAVEMENT STRUCTURAL SECTION NO. 1
NTS

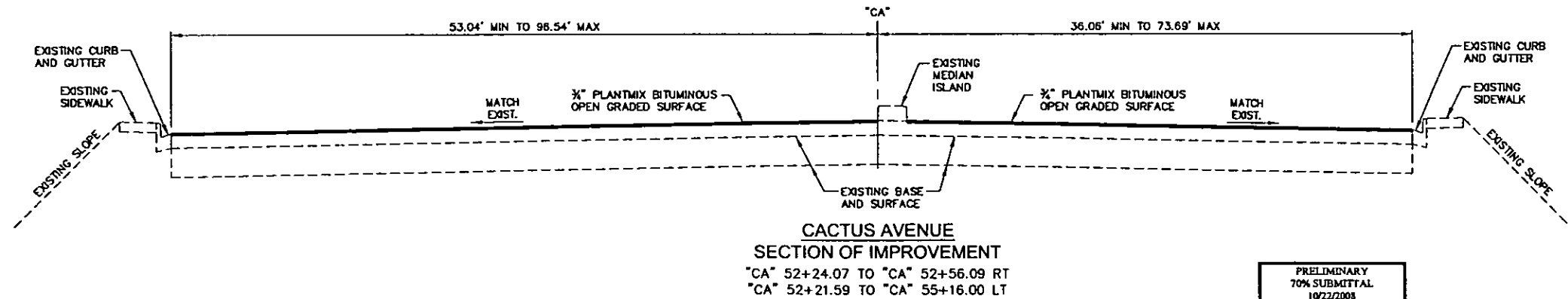
Note:
The Existing Subgrade Shall Be Scarified And Recompacted
In Accordance With The Requirements Of Subsection 401.01.02
Of The Standard Specifications.



**CACTUS AVENUE
SECTION OF IMPROVEMENT**
"CA" 15+54.63 TO "CA" 25+97.77 (BRIDGE)
"CA" 29+76.51 (BRIDGE) TO "CA" 50+89.68



**CACTUS AVENUE
AS CONSTRUCTED**
"CA" 52+24.07 TO "CA" 52+56.09 RT
"CA" 52+21.59 TO "CA" 55+16.00 LT



**CACTUS AVENUE
SECTION OF IMPROVEMENT**
"CA" 52+24.07 TO "CA" 52+56.09 RT
"CA" 52+21.59 TO "CA" 55+16.00 LT

NOTES:
*1. SEE PLANS FOR LOCATIONS.
**2. FOR CLARITY, LEFT TURN LANES ARE NOT SHOWN ON THIS TYPICAL

PLOT DATE: Wednesday, May 29, 2008 8:58:38 AM
 FILE NAME: P:\COPV\01014-CACTUS\PLANS\PHASE 2\SHETS\1014-PHASE 2-TY-3.DWG
 REFERENCE FILES:

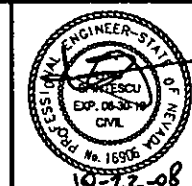
REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
TYPICAL SECTION

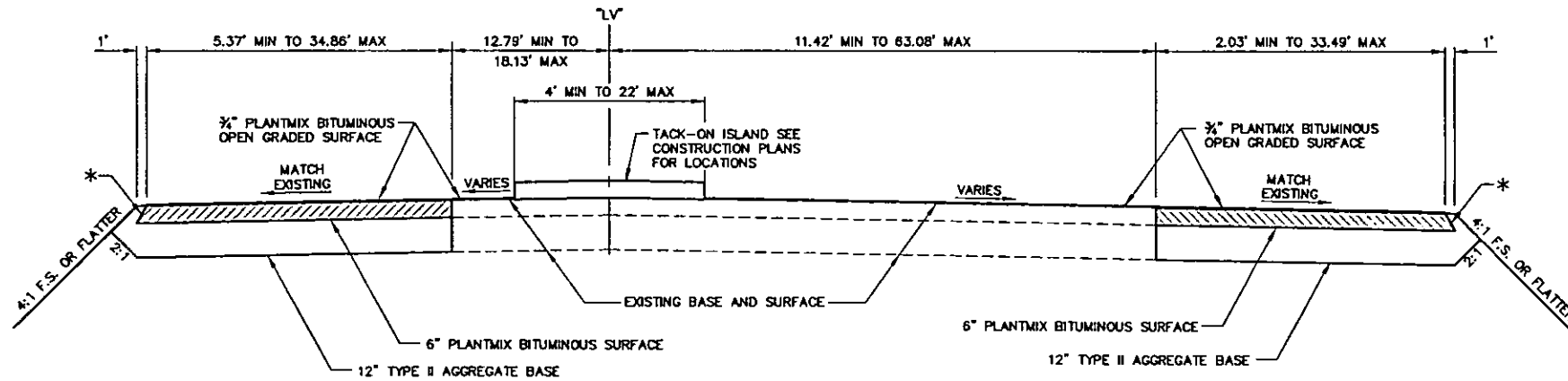
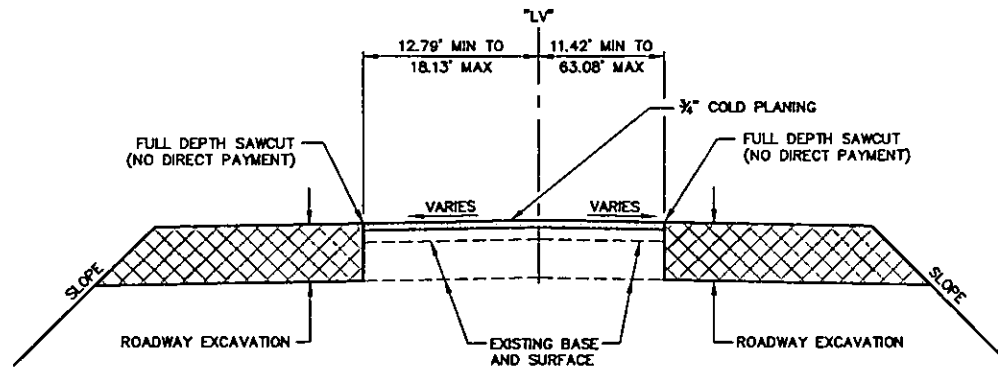
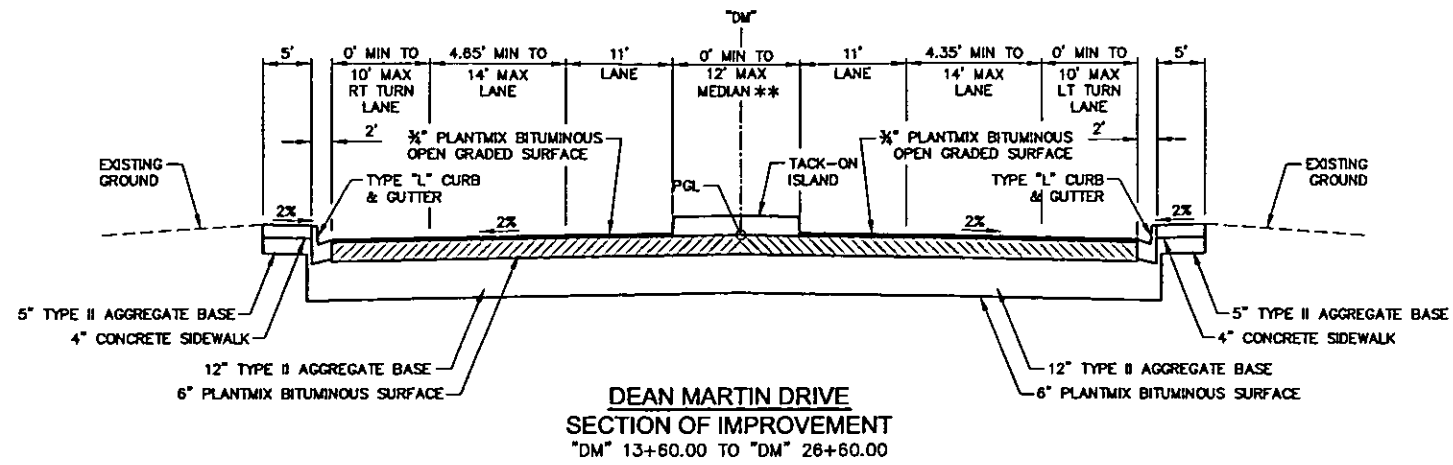
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PRELIMINARY
70% SUBMITTAL
10/22/2008
NOT FOR CONSTRUCTION



PROJECT No: CB1014 DRAWN BY: JPS
DESIGNED BY: FK CHECKED BY: LSF
APPROVED BY: TDL
THE Louis Berger Group, INC.
500 AMIGO COURT, SUITE 100 LAS VEGAS, NEVADA 89118
PHONE (702) 736-8632 *FAX (702) 736-0704

SCALE		SHEET No
HORIZ:	NONE	TY-3
VERT:	NONE	
FIELD BOOK	NONE	
WORK ORDER	2008	



**LAS VEGAS BOULEVARD
SECTION OF IMPROVEMENT**
 "LV" 15+84.13 TO "LV" 30+91.42 LT
 "LV" 15+84.13 TO "LV" 21+46.58 RT
 "LV" 25+16.68 TO "LV" 30+91.42 RT

LEGEND
 * ANGLE OF REPOSE

NOTES:
 ** 1. FOR CLARITY, LEFT TURN LANES ARE NOT SHOWN ON THIS TYPICAL

PLOT DATE: Wednesday, August 28, 2008 8:18:54 PM
 FILE NAME: PACRWC03104-CACTUS/PLANS/PHASE 2/SHEETS/1014-PHASE 2-TY-04.DWG
 REFERENCE FILES:

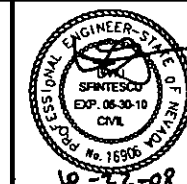
REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
 TYPICAL SECTIONS

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

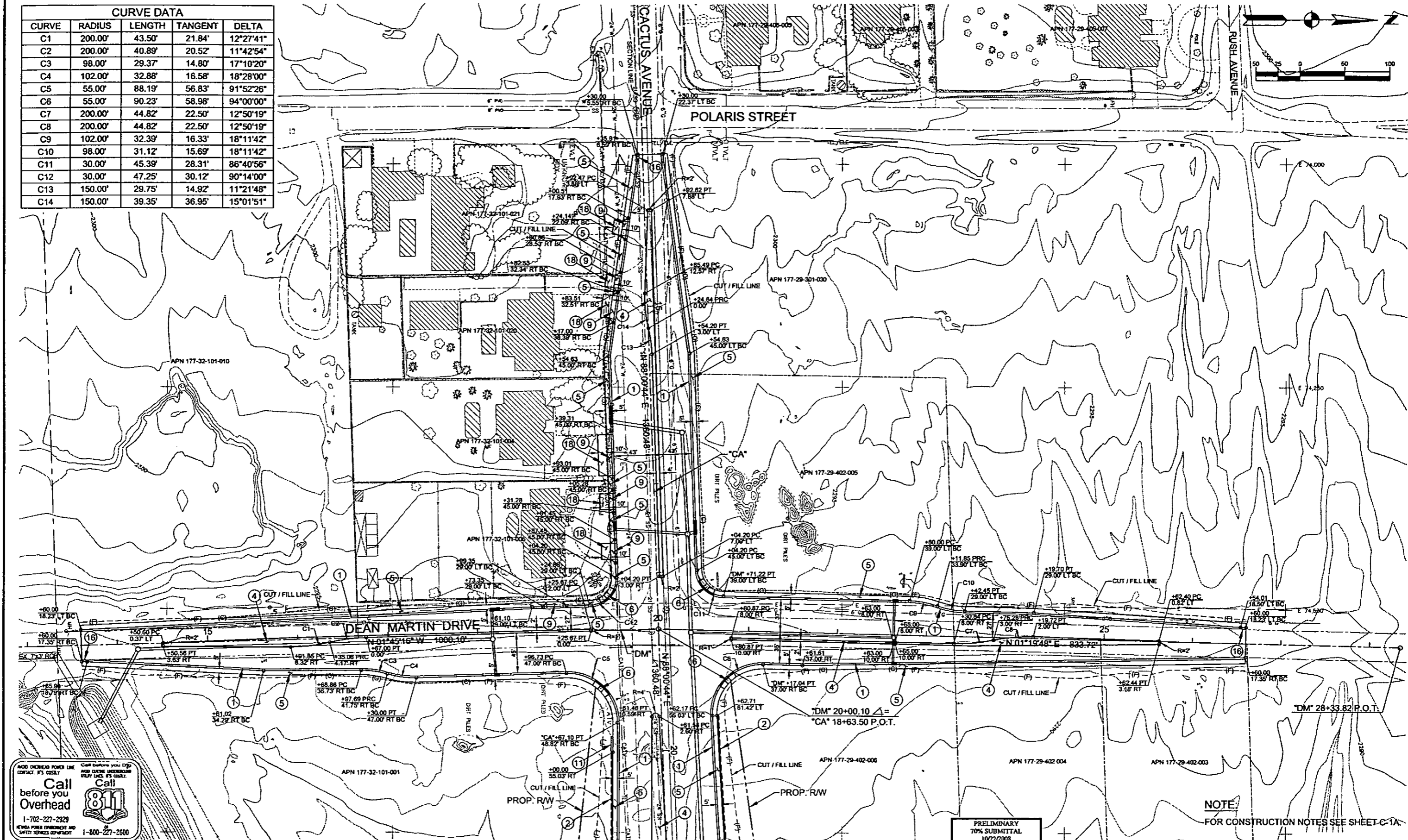
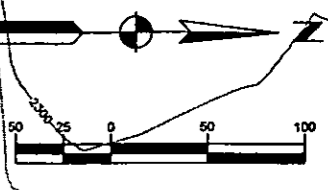


PROJECT No: CB1014 DRAWN BY: JPS
 DESIGNED BY: FX CHECKED BY: LSF
 APPROVED BY: TDL

THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89118
 PHONE (702) 736-0532 • FAX (702) 736-0704

SCALE		SHEET No
HORIZ:	NONE	TY-4
VERT:	NONE	
FIELD BOOK	NONE	
WORK ORDER	2008-	

CURVE DATA				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
C1	200.00'	43.50'	21.84'	12°27'41"
C2	200.00'	40.89'	20.52'	11°42'54"
C3	98.00'	29.37'	14.80'	17°10'20"
C4	102.00'	32.88'	16.58'	18°28'00"
C5	55.00'	88.19'	56.83'	91°52'26"
C6	55.00'	90.23'	58.98'	94°00'00"
C7	200.00'	44.82'	22.50'	12°50'19"
C8	200.00'	44.82'	22.50'	12°50'19"
C9	102.00'	32.39'	16.33'	18°11'42"
C10	98.00'	31.12'	15.69'	18°11'42"
C11	30.00'	45.39'	28.31'	86°40'56"
C12	30.00'	47.25'	30.12'	90°14'00"
C13	150.00'	29.75'	14.92'	11°21'48"
C14	150.00'	39.35'	36.95'	15°01'51"



Call before you dig
Call before you Overhead
1-702-227-2929
1-800-227-2600

PRELIMINARY
70% SUBMITTAL
10/22/2008
NOT FOR CONSTRUCTION

PROJECT No: CB1014 DRAWN BY: WSH
DESIGNED BY: KK CHECKED BY: LSF
APPROVED BY: TDL

THE Louis Berger Group, INC.
500 AMIGO COURT, SUITE 100 LAS VEGAS, NEVADA 89110
PHONE (702) 736-6632 *FAX (702) 736-0704

SCALE: HORIZ: AS SHOWN
VERT: NONE
FIELD BOOK: NONE
WORK ORDER: 2008-

SHEET No: **C-1**



CACTUS AVENUE / I-15 INTERCHANGE

DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD

CONSTRUCTION PLAN

"CA" 12+00.00 TO "CA" 20+50.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

REV. NO.	DATE	DESCRIPTION	APPROVED

PLOT DATE: 10/23/2008 10:45 AM
 FILE NAME: P:\CIP\1014\CACTUS\CONSTRUCTION\PLANS\1014\PHASE 2\01.DWG
 REFERENCE FILES:

- ① "DM" 13+60.00, 18.23' LT TO
"CA" 13+35.91, 6.59' RT

"CA" 13+30.00, 22.37' LT TO
"DM" 26+54.01, 18.50' LT

"DM" 13+65.98, 18.79' RT TO
"CA" 20+50.00, 51.86' RT

"CA" 20+50.00, 58.09' LT TO
"DM" 26+60.00, 17.35' RT
- ② "CA" 20+00.00, 55.03' RT TO
"CA" 20+50.00, 56.87' RT

"CA" 19+62.71, 61.42' LT TO
"CA" 20+50.00, 63.07' LT
- ④ "DM" 14+50.60, 0.37' RT TO
"DM" 19+25.67, 0.00'

"DM" 20+80.87, 10.00' RT TO
"DM" 22+63.00, 10.00' RT

"DM" 22+65.00, 10.00' RT TO
"DM" 25+62.40, 0.82' LT

"CA" 13+92.62, 7.88' LT TO
"CA" 18+04.20, 3.00' RT

"CA" 19+61.48, 2.60' RT TO
"CA" 20+50.00, 0.93' LT
- ⑤ "DM" 13+60.00, 17.35' RT TO
"CA" 20+50.00, 51.86' RT

"DM" 13+60.00, 18.23' LT TO
"DM" 18+73.35, 29.00' LT

"CA" 13+30.00, 22.37' LT TO
"DM" 26+60.00, 18.23' LT

"CA" 20+50.00, 58.09' LT TO
"DM" 26+60.00, 17.35' RT

"CA" 13+30.00, 5.55' RT TO
"CA" 14+00.51, 17.93' RT

"CA" 14+24.14, 22.09' RT TO
"CA" 14+60.88, 28.53' RT

"CA" 14+82.53, 32.34' RT TO
"CA" 14+83.51, 32.51' RT

"CA" 15+17.00, 38.39' RT TO
"CA" 16+39.31, 45.00' RT

"CA" 16+93.01, 45.00' RT TO
"CA" 17+05.28, 45.00' RT

"CA" 17+31.28, 45.00' RT TO
"CA" 17+61.45, 45.00' RT

"CA" 17+87.45, 45.00' RT TO
"DM" 18+99.35, 29.00' LT
- ⑥ "CA" 18+25.45, 53.85' RT
"CA" 18+19.32, 53.18' LT
"CA" 19+27.00, 64.12' RT
"CA" 19+22.34, 73.43' LT

CONSTRUCT CONCRETE CURB AND GUTTER, TYPE L
PER USDCCA DWG. NO. 216

CONSTRUCT CONCRETE BARRIER RAIL, TYPE A
PER USDCCA DWG. NO. 237

CONSTRUCT CONCRETE MEDIAN ISLAND
PER USDCCA DWG. NO. 221

CONSTRUCT CONCRETE SIDEWALK
PER USDCCA DWG. NO. 224

CONSTRUCT CONCRETE SIDEWALK RAMP CASE I
PER USDCCA DWG. NO. 235

- ⑨ "CA" 14+00.51, 17.93' RT TO
"CA" 14+24.14, 22.09' RT

"CA" 14+60.88, 28.53' RT TO
"CA" 14+82.53, 32.34' RT

"CA" 14+83.51, 32.51' RT TO
"CA" 15+17.00, 38.39' RT

"CA" 16+39.31, 45.00' RT TO
"CA" 16+93.01, 45.00' RT

"CA" 17+05.28, 45.00' RT TO
"CA" 17+31.28, 45.00' RT

"CA" 17+61.45, 45.00' RT TO
"CA" 17+87.45, 45.00' RT

"DM" 19+73.35, 29.00' LT TO
"DM" 19+99.35, 29.00' LT
- ⑩ "CA" 20+00.00, 55.03' RT

"DM" 13+60.00, 17.35' RT TO
"DM" 13+65.98, 18.79' RT

"CA" 13+30.00, 5.55' RT TO
"CA" 13+35.91, 6.59' RT

"DM" 26+54.01, 18.50' LT TO
"DM" 26+60.00, 18.23' LT
- ⑪ "CA" 14+03.58, 23.55' RT TO
"CA" 14+19.34, 26.32' RT

"CA" 14+63.93, 34.15' RT TO
"CA" 14+77.72, 36.57' RT

"CA" 14+86.59, 38.13' RT TO
"CA" 15+12.20, 42.62' RT

"CA" 16+43.00, 50.00' RT TO
"CA" 16+89.00, 50.00' RT

"CA" 17+09.28, 50.00' RT TO
"CA" 17+27.28, 50.00' RT

"CA" 17+65.45, 50.00' RT TO
"CA" 17+83.45, 50.00' RT

CONSTRUCT CONCRETE RESIDENTIAL DRIVEWAY
PER USDCCA DWG. NO. 223

INSTALL IMPACT ATTENUATOR (50 MPH)

CONSTRUCT CURB AND GUTTER TRANSITION
SEE SHEET DT-XX

CONSTRUCT NEW PAVEMENT
PER PAVEMENT STRUCTURAL SECTION NO. 1, SEE SHEET TY-3

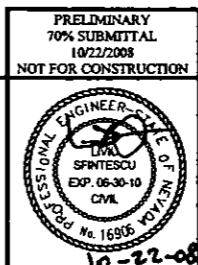
NOTE:
FOR CONSTRUCTION PLAN SEE SHEET C-1.

PLOT DATE: Wednesday, July 23, 2008 8:11:21 PM
 FILE NAME: P:\CADD\1011\CACTUS\CONSTRUCTION\PLANS\1011\14-PHASE 1-C-1A.DWG
 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
CONSTRUCTION NOTES
 "CA" 12+00.00 to "CA" 20+50.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

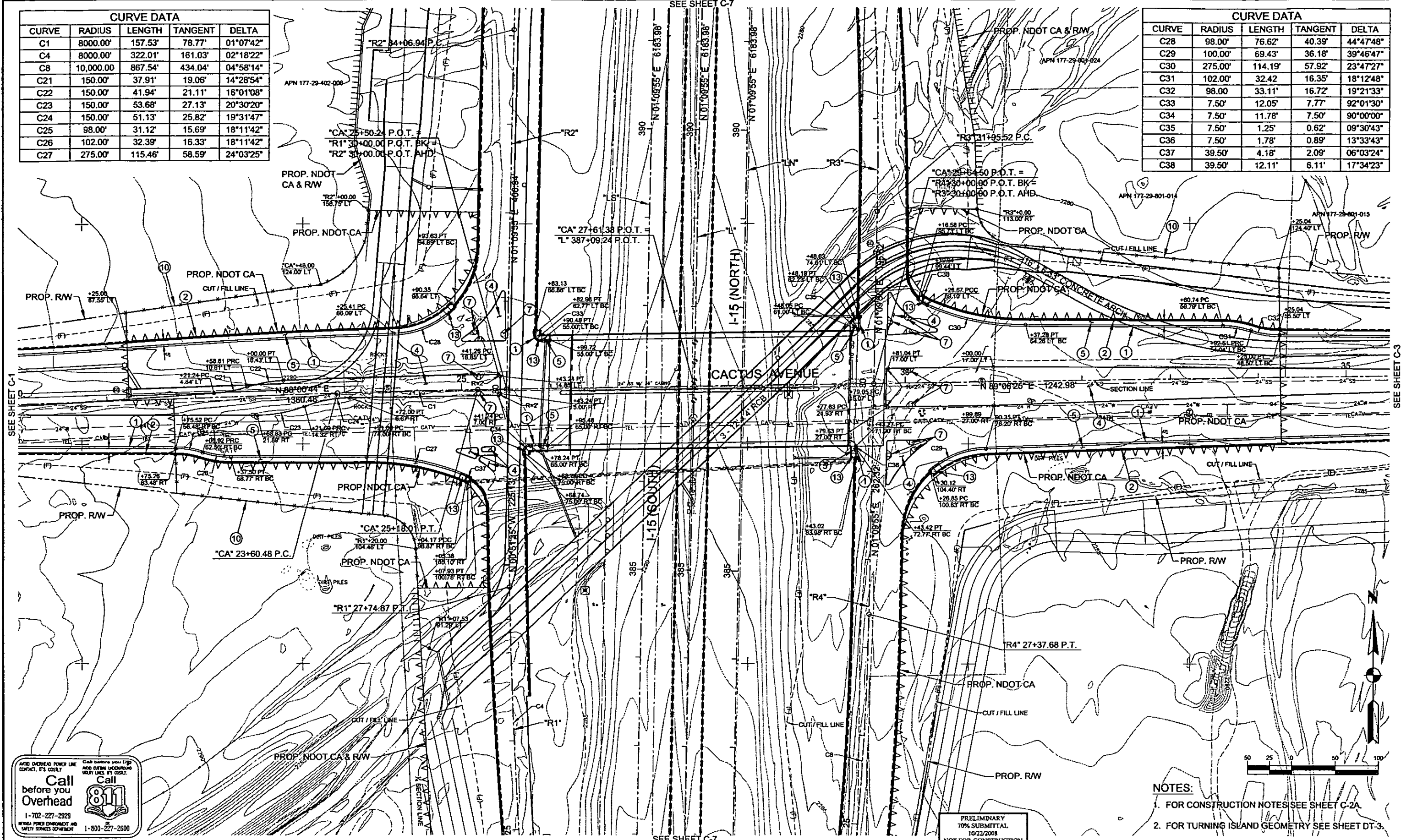


PROJECT No: CB1014 DRAWN BY: WSH
 DESIGNED BY: KK CHECKED BY: LSF
 APPROVED BY: TDL
THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 LAS VEGAS, NEVADA 89119
 PHONE (702) 736-8832 *FAX (702) 736-0704

SCALE		SHEET No
HORIZ:	AS SHOWN	C-1A
VERT:	NONE	
FIELD BOOK	NONE	
WORK ORDER	2008	

CURVE DATA				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
C1	8000.00'	157.53'	78.77'	01°07'42"
C4	8000.00'	322.01'	161.03'	02°18'22"
C8	10,000.00'	867.54'	434.04'	04°58'14"
C21	150.00'	37.91'	19.06'	14°28'54"
C22	150.00'	41.94'	21.11'	16°01'08"
C23	150.00'	53.68'	27.13'	20°30'20"
C24	150.00'	51.13'	25.82'	19°31'47"
C25	98.00'	31.12'	15.69'	18°11'42"
C26	102.00'	32.39'	16.33'	18°11'42"
C27	275.00'	115.46'	58.59'	24°03'25"

CURVE DATA				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
C28	98.00'	76.62'	40.39'	44°47'48"
C29	100.00'	69.43'	36.18'	39°46'47"
C30	275.00'	114.19'	57.92'	23°47'27"
C31	102.00'	32.42'	16.35'	18°12'48"
C32	98.00'	33.11'	16.72'	19°21'33"
C33	7.50'	12.05'	7.77'	92°01'30"
C34	7.50'	11.78'	7.50'	90°00'00"
C35	7.50'	1.25'	0.62'	09°30'43"
C36	7.50'	1.78'	0.89'	13°33'43"
C37	39.50'	4.18'	2.09'	06°03'24"
C38	39.50'	12.11'	6.11'	17°34'23"



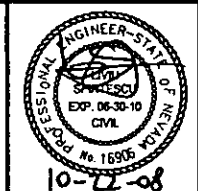
Call before you dig
Call before you Overhead
1-702-227-2929
NEVADA POWER ENVIRONMENT AND SAFETY SERVICES DEPARTMENT
1-800-227-2600

- NOTES:
1. FOR CONSTRUCTION NOTES SEE SHEET C-2A.
2. FOR TURNING ISLAND GEOMETRY SEE SHEET DT-3.

PRELIMINARY
70% SUBMITTAL
10/22/2008
NOT FOR CONSTRUCTION



CACTUS AVENUE / I-15 INTERCHANGE
DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
CONSTRUCTION PLAN
"CA" 20+50.00 to "CA" 35+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: CB104 DRAWN BY: WSH
DESIGNED BY: KK CHECKED BY: LSF
APPROVED BY: TDL
THE Louis Berger Group, Inc.
500 AMMO COURT, SUITE 100 LAS VEGAS, NEVADA 89118
PHONE (702) 736-8832 FAX (702) 736-0704

SCALE	HORIZ: AS SHOWN	VERT: NONE	FIELD BOOK: NONE	WORK ORDER: 2008-
SHEET No	C-2			

REV. NO.	DATE	DESCRIPTION	APPROVED

PLOT DATE: Wednesday, 10/22/2008 4:52:18 PM
 FILE NAME: P:\CIP\10111\CACTUS\PHASE 2\SHEETS\CONSTRUCTION\PLANS\10111\PHASE 2\C2.DWG
 REFERENCE FILES:

- ① *CA* 20+50.00, 51.86' RT TO
CA 25+07.93, 101.78' RT
- *CA* 25+68.74, 75.00' RT TO
CA 25+95.48, 65.00' RT
- *CA* 29+43.27, 71.00' RT TO
CA 29+43.02, 83.98' RT
- *CA* 20+50.00, 58.09' LT TO
CA 24+93.63, 94.89' LT
- *CA* 30+26.85, 100.63' RT TO
CA 35+00.00, 68.00' RT
- *CA* 30+16.58, 95.73' LT TO
CA 35+00.00, 47.00' LT
- *CA* 25+83.13, 66.88' LT TO
CA 25+99.72, 55.00' LT
- *CA* 29+48.05, 61.00' LT TO
CA 29+48.63, 74.61' LT

CONSTRUCT CONCRETE CURB AND GUTTER, TYPE L
PER USDCCA DWG. NO. 216

- ② *CA* 20+50.00, 58.87' RT TO
CA 25+05.38, 105.10' RT
- *CA* 20+50.00, 63.07' LT TO
CA 24+90.35, 98.64' LT
- *CA* 30+19.94, 99.44' LT TO
CA 35+00.00, 52.00' LT
- *CA* 30+19.94, 99.44' RT TO
CA 35+00.00, 73.00' RT

CONSTRUCT CONCRETE BARRIER RAIL, TYPE A
PER USDCCA DWG. NO. 237

- ④ *CA* 20+50.00, 0.93' LT TO
CA 25+41.28, 16.85' LT
- *CA* 29+77.63, 24.93' RT TO
CA 35+00.00, 18.98' RT
- *CA* 25+02.85, 55.00' LT TO
R2 31+09.83, 4.00' LT
- *CA* 24+93.79, 70.94' RT TO
CA 25+17.07, 67.91' RT
- *CA* 25+23.15, 71.00' RT TO
R1 28+33.00, 14.00' LT
- *CA* 25+19.25, 81.84' RT TO
R1 29+08.82, 14.00' LT
- *CA* 29+81.98, 101.87' LT TO
CA 30+35.19, 57.59' LT
- *R4* 28+87.13, 16.00' RT TO
CA 30+21.79, 65.00' RT

CONSTRUCT CONCRETE TACK-ON ISLAND
PER USDCCA DWG. NO. 221

- ⑤ *CA* 25+83.13, 66.88' LT TO
CA 25+99.72, 55.00' LT
- *CA* 29+48.05, 61.00' LT TO
CA 29+48.63, 74.61' LT
- *CA* 20+50.00, 51.87' RT TO
CA 25+07.93, 100.78' RT
- *CA* 25+68.74, 75.00' RT TO
CA 25+95.48, 65.00' RT
- *CA* 29+43.27, 71.00' RT TO
CA 29+43.02, 83.98' RT
- *CA* 20+50.00, 58.09' LT TO
CA 24+93.63, 94.89' LT
- *CA* 30+26.85, 100.63' RT TO
CA 35+00.00, 68.00' RT
- *CA* 30+16.58, 95.73' LT TO
CA 35+00.00, 47.00' LT

CONSTRUCT CONCRETE SIDEWALK
PER USDCCA DWG. NO. 224

- ⑦ *CA* 25+19.00, 16.85' LT
CA 25+19.00, 7.00' RT
CA 25+20.00, 55.50' LT
CA 25+49.74, 62.70' LT
CA 25+14.07, 67.39' LT
CA 29+81.48, 69.89' LT
CA 29+94.45, 56.16' LT
CA 29+99.62, 72.87' LT
CA 30+04.48, 16.50' LT
CA 30+06.00, 26.50' RT
CA 29+78.13, 81.43' RT
CA 30+05.97, 65.50' RT
CA 30+10.78, 78.06' RT

CONSTRUCT CONCRETE SIDEWALK RAMP CASE I
PER USDCCA DWG. NO. 235

- ⑩ *CA* 21+75.26, 63.48' RT TO
R1 28+20.00, 104.46' LT TO
R1 27+07.53, 91.29' LT
- *CA* 21+25.00, 67.55' LT TO
CA 23+46.00, 124.00' LT TO
R2 32+00.00, 158.75' LT
- *R3* 32+00.00, 113.00' RT TO
CA 34+25.04, 124.40' LT TO
CA 34+25.04, 55.50' LT

INSTALL 72-INCH CHAIN-LINK FENCE
PER NDOT STD. R-6.3.1

- ⑬ *CA* 30+27.27, 88.82' LT
CA 30+37.01, 92.89' RT
CA 24+97.15, 95.88' RT
CA 24+84.47, 86.65' LT
CA 25+90.48, 55.00' LT
CA 25+78.24, 65.00' RT
CA 29+48.05, 61.00' LT
CA 29+43.27, 71.00' RT

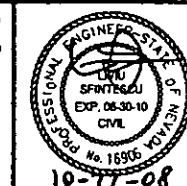
CONSTRUCT SPECIAL CONCRETE SIDEWALK RAMP
SEE SHEET DT-5

NOTE:
FOR CONSTRUCTION PLAN SEE SHEET C-2.



CACTUS AVENUE / I-15 INTERCHANGE
DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
CONSTRUCTION NOTES
"CA" 20+50.00 TO "CA" 35+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PRELIMINARY
70% SUBMITTAL
10/22/2008
NOT FOR CONSTRUCTION



PROJECT No: CB1014 DRAWN BY: GFV
DESIGNED BY: KOK CHECKED BY: LSF
APPROVED BY: TDL

THE Louis Berger Group, INC.
500 AMIGO COURT, SUITE 100 LAS VEGAS, NEVADA 89119
PHONE (702) 736-0832 *FAX (702) 736-0704

SCALE	SHEET No
HORIZ: AS SHOWN	C-2A
VERT: NONE	
FIELD BOOK: NONE	
WORK ORDER: 2008-	

PLOT DATE: Wednesday, July 23, 2008 4:52:17 PM
FILE NAME: P:\CADD\PROJECTS\CACTUS\PLANS\PHASE 2\CONSTRUCTION\PLANS\1014-PHASE 2-C2A.DWG
REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED

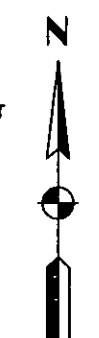
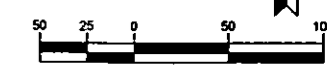
CURVE DATA				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
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C38	30.00'	47.12'	30.00'	90°00'00"
C39	30.00'	47.12'	30.00'	90°00'00"
C40	30.00'	47.12'	30.00'	90°00'00"
C50	150.00'	55.08'	27.85'	21°02'22"
C51	150.00'	55.08'	27.85'	21°02'22"



- ① "CA" 35+00.00, 47.00' LT TO "CA" 40+18.92, 45.00' LT CONSTRUCT CONCRETE CURB AND GUTTER, TYPE L PER USDCCA DWG. NO. 216
- ② "CA" 35+00.00, 52.00' LT TO "CA" 39+82.50, 50.00' LT CONSTRUCT CONCRETE BARRIER RAIL TYPE A PER USDCCA DWG. NO. 237
- ③ "CA" 35+00.00, 73.00' RT TO "CA" 40+43.92, 87.63' RT
- ④ "CA" 35+00.00, 68.00' RT TO "CA" 40+18.32, 57.63' RT
- ⑤ "CA" 41+68.92, 45.00' RT TO "CA" 49+50.00, 45.00' RT
- ⑥ "CA" 41+43.92, 75.00' RT TO "CA" 49+50.00, 50.00' RT
- ⑦ "CA" 41+68.92, 45.00' LT TO "CA" 49+50.00, 55.00' LT
- ⑧ "CA" 41+38.92, 75.00' LT TO "CA" 49+50.00, 55.00' LT
- ⑨ "CA" 41+38.92, 75.00' RT TO "CA" 49+50.00, 45.00' RT
- ⑩ "CA" 40+40.49, 53.43' LT "CA" 41+47.35, 53.43' LT "CA" 40+39.92, 66.20' RT "CA" 41+47.71, 53.79' RT CONSTRUCT SIDEWALK RAMP CASE I PER USDCCA DWG. NO. 235
- ⑪ "CA" 39+82.50, 50.00' LT INSTALL IMPACT ATTENUATOR (50 MPH)
- ⑫ "CA" 40+18.92, 45.00' LT TO "CA" 41+68.92, 45.00' LT CONSTRUCT CONCRETE CROSS GUTTER PER USDCCA DWG. NO. 228
- ⑬ "CA" 40+18.32, 57.63' RT TO "CA" 41+68.92, 45.00' RT
- ⑭ "CA" 40+50.92, 75.00' LT TO "CA" 41+36.92, 75.00' LT CONSTRUCT NEW PAVEMENT PER PAVEMENT STRUCTURAL SECTION NO. 1 SEE SHEET TY-3
- ⑮ "CA" 40+50.92, 87.63' RT TO "CA" 41+36.92, 75.00' RT
- ⑯ "CA" 35+00.00, 18.98' RT TO "CA" 49+25.00, 13.00' LT CONSTRUCT CONCRETE TACK-ON ISLAND PER USDCCA DWG. NO. 221
- ⑰ "CA" 49+27.00, 13.00' LT TO "CA" 49+50.00, 13.00' LT

Call before you Dig
Call before you Overhead
1-702-227-2929
1-800-227-2600

PRELIMINARY
70% SUBMITTAL
10/22/2008
NOT FOR CONSTRUCTION



PLOT DATE: Wednesday, 10/22/2008 4:56:13 PM
 FILE NAME: P:\CCTV\116\CACTUS\CONSTRUCTION\PLANS\116\PHASE 1\CD3.DWG
 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE

DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD

CONSTRUCTION PLAN

"CA" 35+00.00 to "CA" 49+50.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

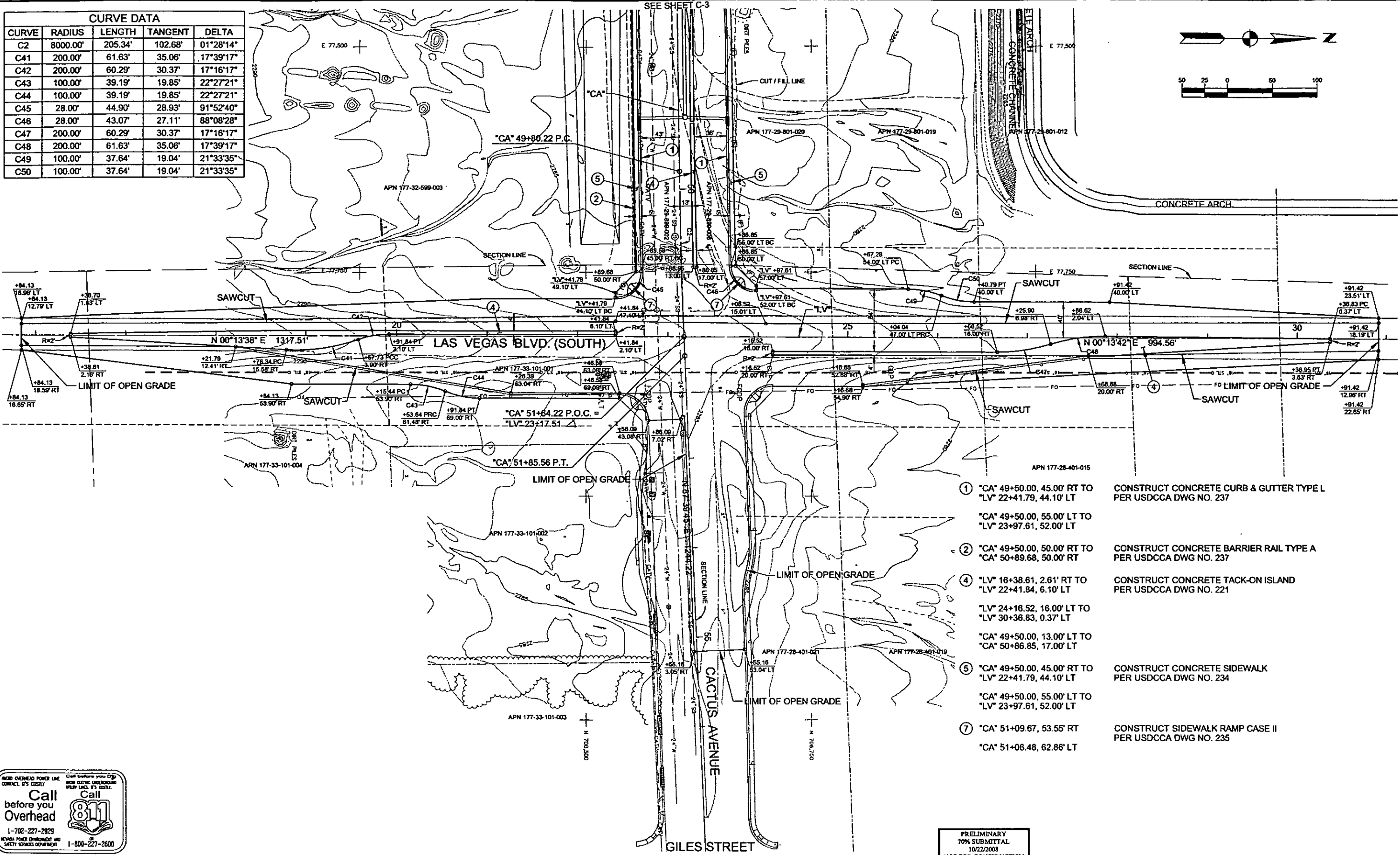
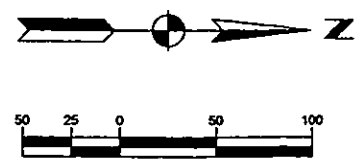


PROJECT No: CB1014 DRAWN BY: GFV
 DESIGNED BY: KK CHECKED BY: LSF
 APPROVED BY: TDL

THE Louis Berger Group, Inc.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119
 PHONE (702) 736-8532 • FAX (702) 736-0704

SCALE		SHEET No
HORIZ:	AS SHOWN	C-3
VERT:	NONE	
FIELD BOOK:	NONE	
WORK ORDER:	2008-	

CURVE DATA				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
C2	8000.00'	205.34'	102.68'	01°28'14"
C41	200.00'	61.63'	35.06'	17°39'17"
C42	200.00'	60.29'	30.37'	17°16'17"
C43	100.00'	39.19'	19.85'	22°27'21"
C44	100.00'	39.19'	19.85'	22°27'21"
C45	28.00'	44.90'	28.93'	91°52'40"
C46	28.00'	43.07'	27.11'	88°08'28"
C47	200.00'	60.29'	30.37'	17°16'17"
C48	200.00'	61.63'	35.06'	17°39'17"
C49	100.00'	37.64'	19.04'	21°33'35"
C50	100.00'	37.64'	19.04'	21°33'35"



- ① "CA" 49+50.00, 45.00' RT TO "LV" 22+41.79, 44.10' LT
CONSTRUCT CONCRETE CURB & GUTTER TYPE L PER USDCCA DWG NO. 237
- "CA" 49+50.00, 55.00' LT TO "LV" 23+97.61, 52.00' LT
- ② "CA" 49+50.00, 50.00' RT TO "CA" 50+89.68, 50.00' RT
CONSTRUCT CONCRETE BARRIER RAIL TYPE A PER USDCCA DWG NO. 237
- ④ "LV" 16+38.61, 2.61' RT TO "LV" 22+41.84, 6.10' LT
CONSTRUCT CONCRETE TACK-ON ISLAND PER USDCCA DWG NO. 221
- "LV" 24+16.52, 16.00' LT TO "LV" 30+36.83, 0.37' LT
- "CA" 49+50.00, 13.00' LT TO "CA" 50+86.85, 17.00' LT
- ⑤ "CA" 49+50.00, 45.00' RT TO "LV" 22+41.79, 44.10' LT
CONSTRUCT CONCRETE SIDEWALK PER USDCCA DWG NO. 234
- "CA" 49+50.00, 55.00' LT TO "LV" 23+97.61, 52.00' LT
- ⑦ "CA" 51+09.67, 53.55' RT
CONSTRUCT SIDEWALK RAMP CASE II PER USDCCA DWG NO. 235
- "CA" 51+06.48, 62.86' LT

Call before you Dig
Call before you Overhead

1-702-227-2923
1-800-227-2600



CACTUS AVENUE / I-15 INTERCHANGE

DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD

CONSTRUCTION PLAN

"CA" 49+50.00 to "CA" 57+00.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PRELIMINARY
70% SUBMITTAL
10/22/2008
NOT FOR CONSTRUCTION

PROJECT No: CB1014 DRAWN BY: GFV
DESIGNED BY: KJK CHECKED BY: LSF
APPROVED BY: TDL

THE Louis Berger Group, INC.
500 AMIGO COURT, SUITE 100 LAS VEGAS, NEVADA 89119
PHONE (702) 736-8532 FAX (702) 736-0704

SCALE	HORIZ: AS SHOWN	VERT: NONE	FIELD BOOK: NONE	WORK ORDER: 2008-	SHEET No: C-4
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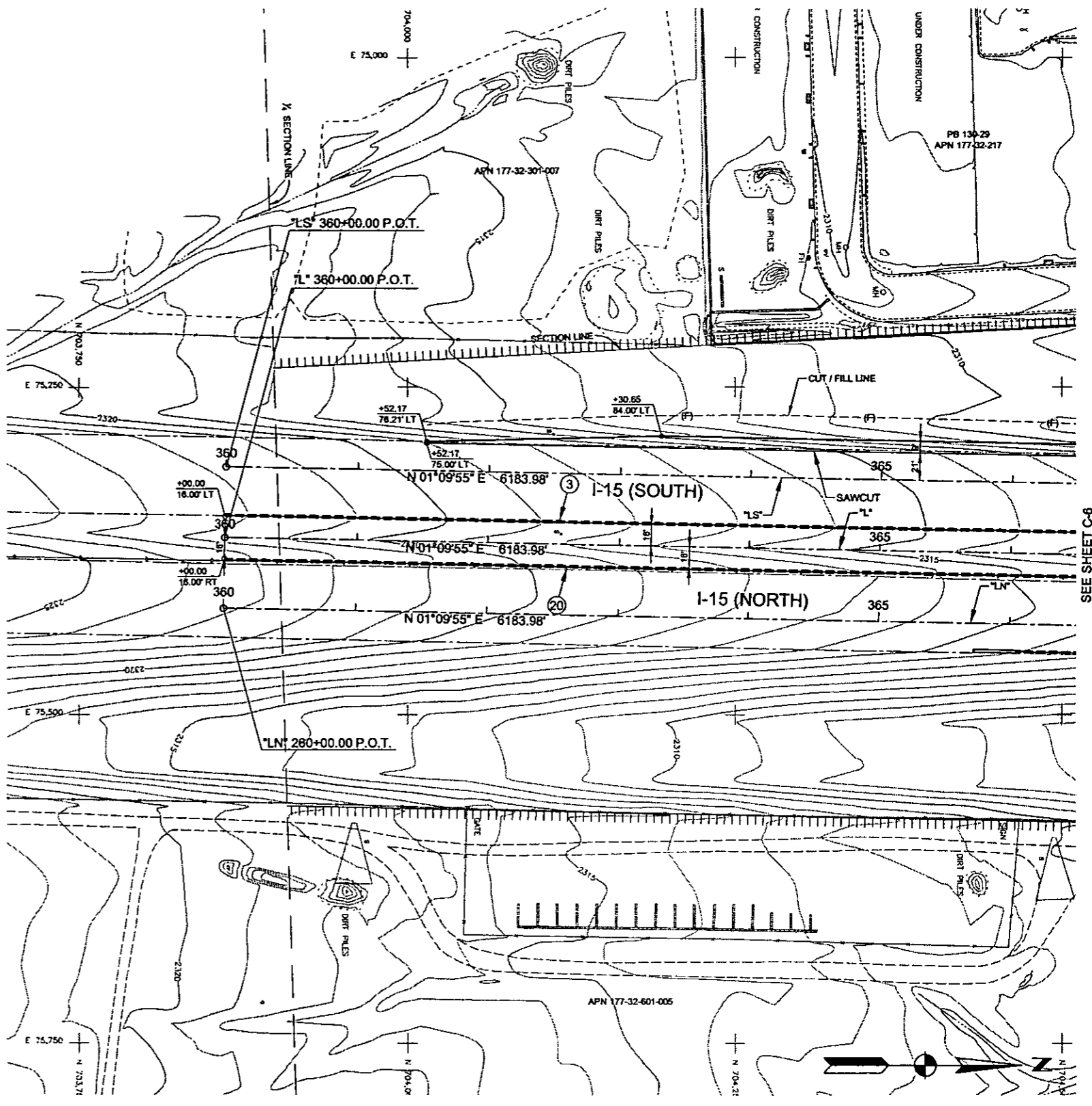
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REV. NO.	DATE	DESCRIPTION	APPROVED

PLOT DATE: Wednesday, 7/23/2008 10:28:10 AM
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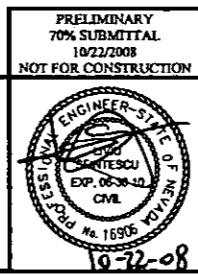
- ③ "L" 360+00.00, 16.00' LT TO "L" 366+00.00, 16.00' LT
INSTALL PORTABLE PRECAST CONCRETE BARRIER RAIL PER NDOT STD. R-8.7.1
- ②① "L" 360+00.00, 16.00' RT TO "L" 366+00.00, 16.00' RT
RESET PORTABLE PRECAST BARRIER RAIL



REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
CONSTRUCTION PLAN
 "L" 360+00.00 to "L" 366+00.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



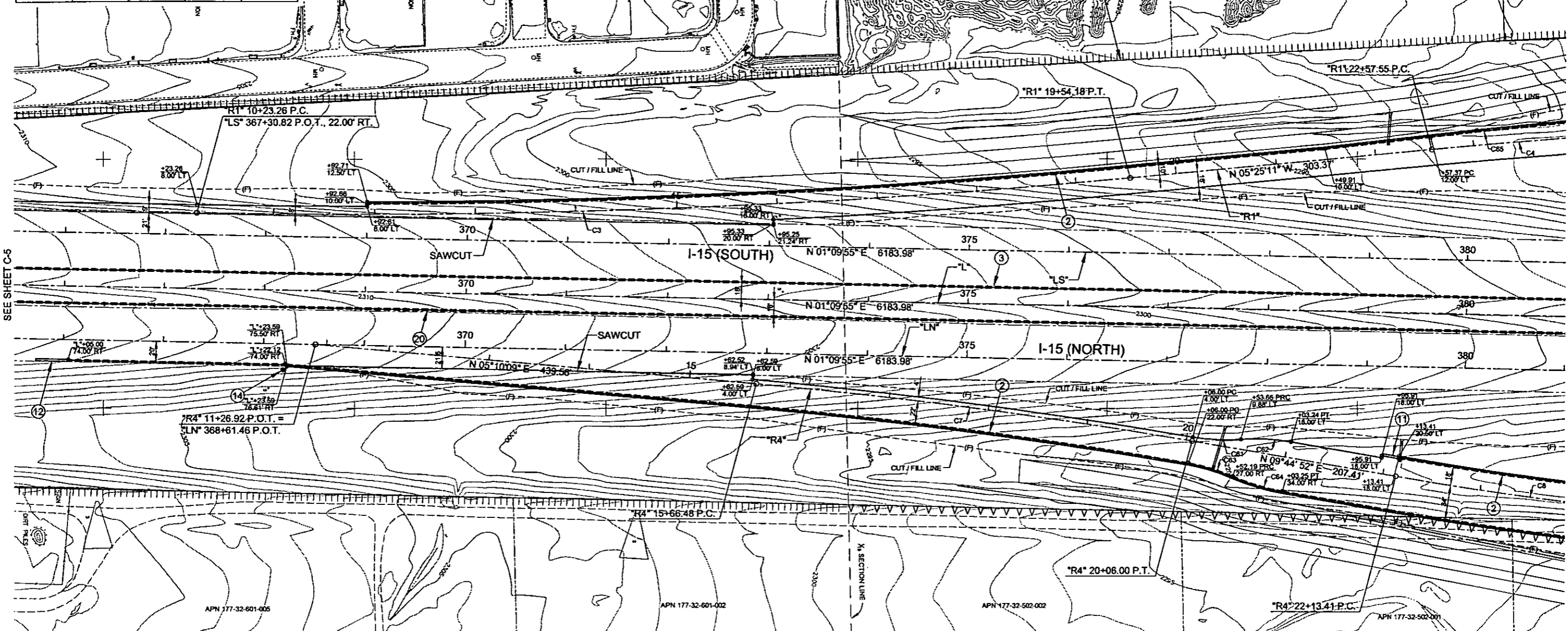
PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

PROJECT No: CB1014 DRAWN BY: GFV
 DESIGNED BY: KK CHECKED BY: LSF
 APPROVED BY: TDL

THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89110
 PHONE (702) 736-8632 • FAX (702) 736-0704

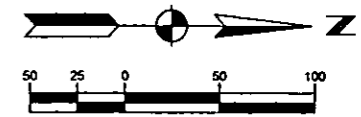
SCALE	HORIZ: AS SHOWN	VERT: NONE	FIELD BOOK: NONE	WORK ORDER: 2008-	SHEET No C-5
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CURVE DATA				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
C3	8100.00'	930.93'	465.98'	06°35'06"
C4	6500.00'	517.31'	258.79'	04°33'36"
C7	5500.00'	439.52'	219.88'	04°34'43"
C8	3500.00'	524.27'	262.63'	08°34'57"
C61	196.00'	48.13'	24.19'	14°04'12"
C62	204.00'	50.10'	25.18'	14°04'12"
C63	190.00'	46.66'	23.45'	14°04'12"
C64	210.00'	51.57'	25.92'	14°04'12"
C65	6515.79'	518.85'	259.56'	04°33'45"



- ② "L" 366+05.00, 74.00' RT TO "R4" 23+36.59, 34.00' RT
CONSTRUCT CONCRETE BARRIER RAIL, TYPE A PER USDCCA DWG. NO. 237
- "R4" 22+13.41, 18.00' LT TO "R4" 23+30.58, 18.00' LT
- "R1" 11+92.66, 10.00' LT TO "R1" 23+48.40, 13.76' LT
- ③ "L" 366+00.00, 16.00' LT TO "L" 380+50.00, 16.00' LT
INSTALL PORTABLE PRECAST CONCRETE BARRIER RAIL PER NDOT STD. R-8.7.1
- ⑪ "R4" 22+13.41, 18.00' LT
INSTALL IMPACT ATTENUATOR (50 MPH)
- ⑫ "L" 366+05.00, 74.00' RT
INSTALL IMPACT ATTENUATOR (70 MPH)
- ⑭ "LN" 368+20.00, 26.00' RT
INSTALL OVERHEAD SIGN STRUCTURE SEE SIGNING PLANS
- ⑳ "L" 366+00.00, 16.00' RT TO "L" 380+50.00, 16.00' RT
RESET PORTABLE PRECAST CONCRETE BARRIER RAIL

NEED OVERHEAD POWER LINE CONTACT. IT'S COSTLY.
Call before you Overhead
1-702-227-2929
NEVADA POWER DIVISION AND SAFETY SERVICES DEPARTMENT
1-800-227-2500



PLOT DATE: Wednesday, August 28, 2008 4:54:45 PM
 FILE NAME: P:\C\PROJECTS\191-CACTUS\PLANS\PHASE 2\SUBMITTALS\191-14-PHASE 2-COLDWY REFERENCE FILES
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REV. NO.	DATE	DESCRIPTION	APPROVED

CACTUS AVENUE / I-15 INTERCHANGE

DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD

CONSTRUCTION PLAN

"L"366+00.00 to "L" 380+50.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

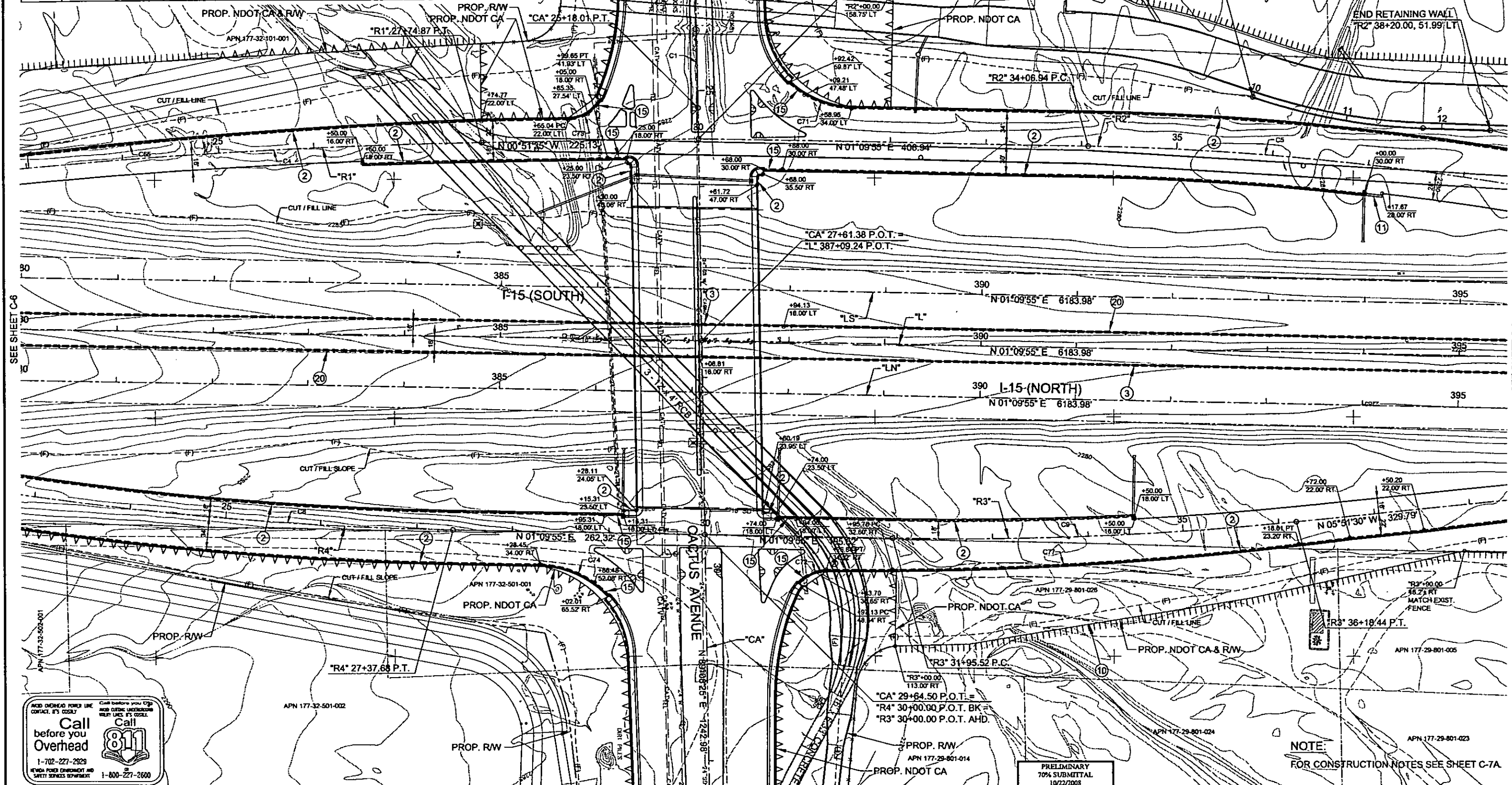
PRELIMINARY
70% SUBMITTAL
10/22/2008
NOT FOR CONSTRUCTION

PROJECT No: CB1014 DRAWN BY: GFV
 DESIGNED BY: KK CHECKED BY: LSF
 APPROVED BY: TDL

THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89110
 PHONE (702) 796-6632 • FAX (702) 796-0704

SCALE		SHEET No
HORIZ:	AS SHOWN	C-6
VERT:	NONE	
FIELD BOOK:	NONE	
WORK ORDER:	2008-	

CURVE DATA									
CURVE	RADIUS	LENGTH	TANGENT	DELTA	CURVE	RADIUS	LENGTH	TANGENT	DELTA
C1	8000.00'	157.53'	78.77'	01°07'42"	C71	98.50'	73.05'	38.30'	42°29'35"
C4	6500.00'	517.31'	258.79'	04°33'36"	C72	40.00'	33.95'	18.08'	48°38'11"
C5	3150.00'	460.68'	230.75'	08°22'46"	C73	40.00'	41.81'	23.04'	59°53'11"
C8	3500.00'	524.27'	262.63'	08°34'57"	C74	100.00'	81.65'	43.25'	46°46'50"
C9	3450.00'	422.92'	211.73'	07°01'25"	C77	3764.57'	426.31'	213.38'	06°29'18"
C65	6515.79'	518.85'	259.56'	04°33'45"					



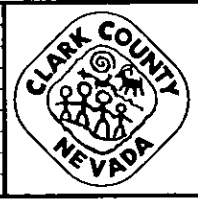
Call before you Overhead
 1-800-227-2600
 1-702-227-2929

PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

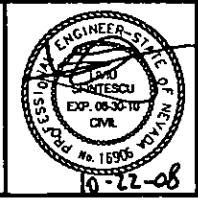
NOTE:
 FOR CONSTRUCTION NOTES SEE SHEET C-7A

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 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
CONSTRUCTION PLAN
 "L" 380+50.00 to "L" 395+00.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: CB1014 DRAWN BY: GFV
 DESIGNED BY: KKC CHECKED BY: LSF
 APPROVED BY: TDL
THE Louis Berger Group, INC.
 500 AMMO COURT, SUITE 100 LAS VEGAS, NEVADA 89119
 PHONE (702) 736-8832 * FAX (702) 736-0704

SCALE		SHEET No
HORIZ:	AS SHOWN	C-7
VERT:	NONE	
FIELD BOOK:	NONE	
WORK ORDER:	2008-	

- ② "R4" 23+36.59, 34.00' RT TO "R4" 28+86.48, 52.08' RT
CONSTRUCT CONCRETE BARRIER TYPE A PER USDCCA DWG NO. 216
- "R4" 23+30.58, 18.00' LT TO "R4" 28+95.31, 18.00' LT
- "R3" 30+94.00, 18.00' LT TO "R3" 34+50.00, 18.00' LT
- "R1" 29+25.00, 23.50' RT TO "R1" 29+30.00, 45.06' RT
- "R2" 30+61.72, 47.00' RT TO "R2" 30+68.00, 35.50' RT
- "R3" 31+13.70, 36.65' RT TO "R3" 37+83.27, 21.33' RT
- "R1" 23+48.40, 13.76' LT TO "R1" 28+85.35, 27.54' LT
- "R4" 29+15.31, 23.50' LT TO "R4" 29+28.11, 24.05' LT
- "R3" 30+60.19, 23.95' LT TO "R3" 30+74.00, 23.50' LT
- "R1" 26+50.00, 18.00' RT TO "R1" 29+05.00, 18.00' RT
- "R2" 31+09.21, 47.48' LT TO "R2" 37+95.02, 34.00' LT
- "R2" 30+88.00, 30.00' RT TO "R2" 37+00.00, 30.00' RT
- ③ "L" 380+50.00, 16.00' LT TO "L" 387+94.13, 16.00' LT
INSTALL PORTABLE PRECAST CONCRETE BARRIER RAIL PER NDOT STD. R-8.7.1
- "L" 387+06.81, 16.00' RT TO "L" 395+00.00, 16.00' RT
- ⑩ "R2" 32+00.00, 158.75' LT TO "R2" 38+00.00, 119.10' LT
INSTALL 72-INCH CHAIN-LINK FENCE PER NDOT STD. R-6.3.1
- "R3" 32+00.00, 113.00' RT TO "R3" 37+90.00, 48.2± RT
- ⑪ "R2" 37+00.00, 30.00' RT
INSTALL IMPACT ATTENUATOR (50 MPH)

- ⑮ "R2" 30+92.42, 59.87' LT TO "R2" 31+09.21, 47.48' LT
CONSTRUCT CURB & GUTTER TO BARRIER RAIL TRANSITION SEE SHEET DT-5
- "R2" 30+68.00, 30.00' RT TO "R2" 30+88.00, 30.00' RT
- "R1" 28+85.35, 27.54' LT TO "R1" 28+99.65, 41.93' LT
- "R1" 29+05.00, 18.00' RT TO "R1" 29+25.00, 18.00' RT
- "R3" 30+74.00, 18.00' LT TO "R3" 30+94.00, 18.00' LT
- "R3" 30+97.13, 48.34' RT TO "R3" 31+13.70, 36.65' RT
- "R4" 28+95.31, 18.00' LT TO "R4" 29+15.31, 18.00' LT
- "R4" 28+86.48, 52.08' RT TO "R4" 29+02.01, 65.52' RT
- ⑳ "L" 380+50.00, 16.00' RT TO "L" 387+06.81, 16.00' RT
RESET PORTABLE PRECAST CONCRETE BARRIER RAIL
- "L" 387+94.13, 16.00' LT TO "L" 395+00.00, 16.00' LT



NOTE:
FOR CONSTRUCTION PLAN SEE SHEET C-7.

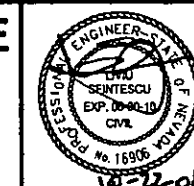
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 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
CONSTRUCTION NOTES
 "L" 380+50.00 to "L" 395+00.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

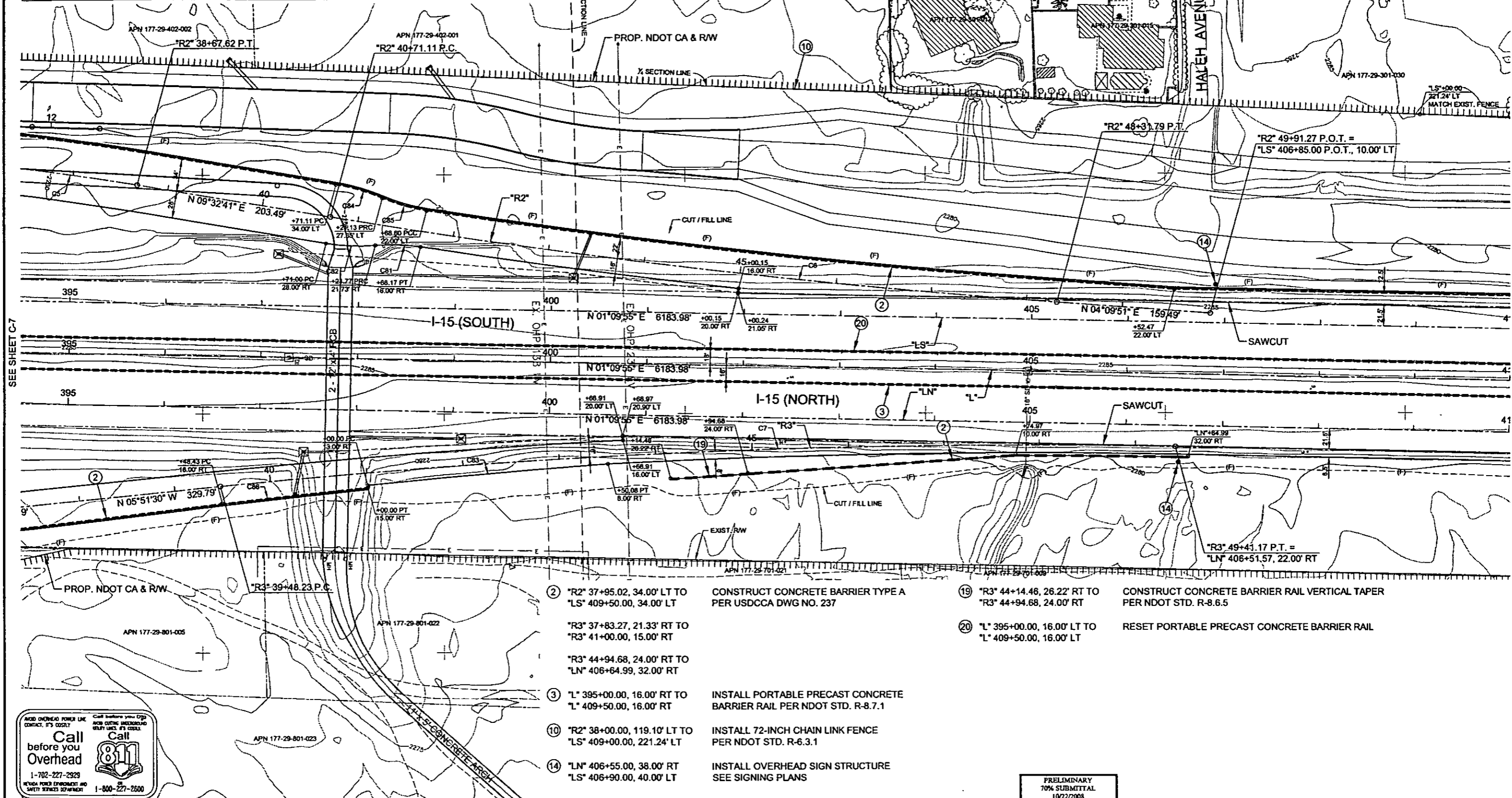


PROJECT No: 1014 DRAWN BY: GFV
 DESIGNED BY: KOK CHECKED BY: LSF
 APPROVED BY: TDL
THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119
 PHONE (702) 736-8532 • FAX (702) 736-0704

SCALE	
HORIZ:	AS SHOWN
VERT:	NONE
FIELD BOOK	NONE
WORK ORDER	2008

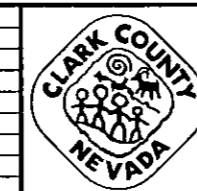
SHEET No
C-7A

CURVE DATA									
CURVE	RADIUS	LENGTH	TANGENT	DELTA	CURVE	RADIUS	LENGTH	TANGENT	DELTA
C5	3150.00'	460.68'	230.75'	08°22'46"	C83	8136.39'	249.81'	124.92'	01°45'33"
C6	8100.00'	760.67'	380.62'	05°22'50"	C84	210.00'	50.32'	25.28'	13°43'45"
C7	8100.00'	992.95'	497.10'	07°01'25"	C85	190.00'	47.81'	24.03'	14°25'08"
C81	196.00'	46.97'	23.60'	13°43'51"	C86	8134.39'	151.30'	75.66'	01°03'57"
C82	204.00'	51.33'	25.80'	14°25'02"					



- ② *R2° 37+95.02, 34.00' LT TO *LS° 409+50.00, 34.00' LT CONSTRUCT CONCRETE BARRIER TYPE A PER USCCA DWG NO. 237
- *R3° 37+83.27, 21.33' RT TO *R3° 41+00.00, 15.00' RT
- *R3° 44+94.68, 24.00' RT TO *LN° 406+64.99, 32.00' RT
- ③ *L° 395+00.00, 16.00' RT TO *L° 409+50.00, 16.00' RT INSTALL PORTABLE PRECAST CONCRETE BARRIER RAIL PER NDOT STD. R-8.7.1
- ⑩ *R2° 38+00.00, 119.10' LT TO *LS° 409+00.00, 221.24' LT INSTALL 72-INCH CHAIN LINK FENCE PER NDOT STD. R-6.3.1
- ⑭ *LN° 406+55.00, 38.00' RT *LS° 406+90.00, 40.00' LT INSTALL OVERHEAD SIGN STRUCTURE SEE SIGNING PLANS
- ⑰ *R3° 44+14.46, 26.22' RT TO *R3° 44+94.68, 24.00' RT CONSTRUCT CONCRETE BARRIER RAIL VERTICAL TAPER PER NDOT STD. R-8.6.5
- ⑳ *L° 395+00.00, 16.00' LT TO *L° 409+50.00, 16.00' LT RESET PORTABLE PRECAST CONCRETE BARRIER RAIL

Call before you Overhead
 1-702-227-2929
 1-800-227-2500



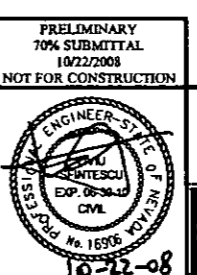
CACTUS AVENUE / I-15 INTERCHANGE

DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD

CONSTRUCTION PLAN

"L" 395+00.00 to "L" 409+50.00

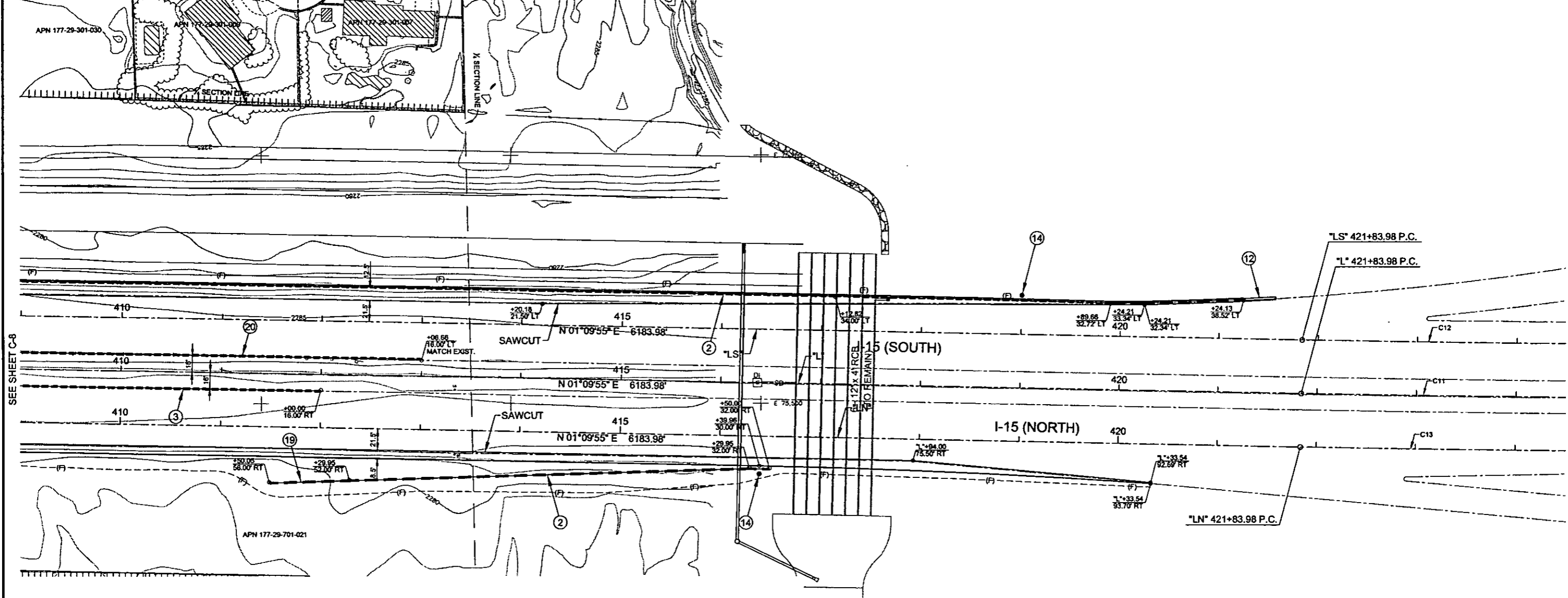
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



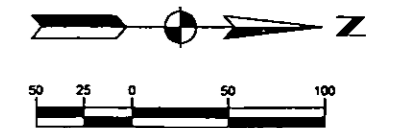
PROJECT No:	CB1014	DRAWN BY:	GFV	SCALE:		SHEET No:	C-8
DESIGNED BY:	KK	CHECKED BY:	LSF	HORIZ:	AS SHOWN		
APPROVED BY:	TDL			VERT:	NONE		
THE Louis Berger Group, INC.				FIELD BOOK:	NONE		
500 AMIGO COURT, SUITE 100 LAS VEGAS, NEVADA 89119				WORK ORDER:	2008-		
PHONE (702) 736-8832 * FAX (702) 736-0704							

PLOT DATE: Wednesday, 10/28/2008 10:52:51 AM
 FILE NAME: P:\CCTUS\114-CACTUS\114-CACTUS\114-CACTUS\CONSTRUCTION\PLANS\114-PHASE 3-C8.DWG
 REFERENCE FILES:

CURVE DATA				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
C11	20054.00'	898.55'	449.35'	02°34'02"
C12	20000.00'	896.13'	448.14'	02°34'02"
C13	20108.00'	900.97'	450.56'	02°34'02"

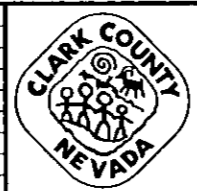


- ② "LS" 409+50.00, 34.00' LT TO "LS" 421+24.13, 38.52' LT CONSTRUCT CONCRETE BARRIER RAIL, TYPE A PER USDCCA DWG. NO. 237
"LN" 412+29.95, 52.00' RT TO "LN" 416+50.00, 32.00' RT
- ③ "L" 409+50.00, 16.00' RT TO "L" 412+06.66, 16.00' RT INSTALL PORTABLE PRECAST CONCRETE BARRIER RAIL PER NDOT STD. R-8.7.1
- ⑫ "LS" 421+24.13, 38.52' LT INSTALL IMPACT ATTENUATOR (70 MPH)
- ⑭ "LS" 416+40.00, 38.00' RT "LS" 419+00.24, 39.42' LT INSTALL OVERHEAD SIGN. SEE SIGNING PLANS
- ⑰ "LN" 411+50.05, 56.00' RT TO "LN" 412+29.95, 52.00' RT CONSTRUCT CONCRETE BARRIER RAIL VERTICAL TAPER PER NDOT STD. R-8.6.5
- ⑳ "L" 409+50.00, 16.00' LT TO "L" 413+00.00, 16.00' LT RESET PORTABLE PRECAST CONCRETE BARRIER RAIL



PLOT DATE: Wednesday, 7/28/2008 10:54:33 AM
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 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



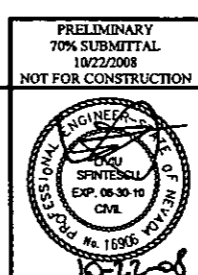
CACTUS AVENUE / I-15 INTERCHANGE

DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD

CONSTRUCTION PLAN

"L" 409+50.00 to "L" 424+00.00

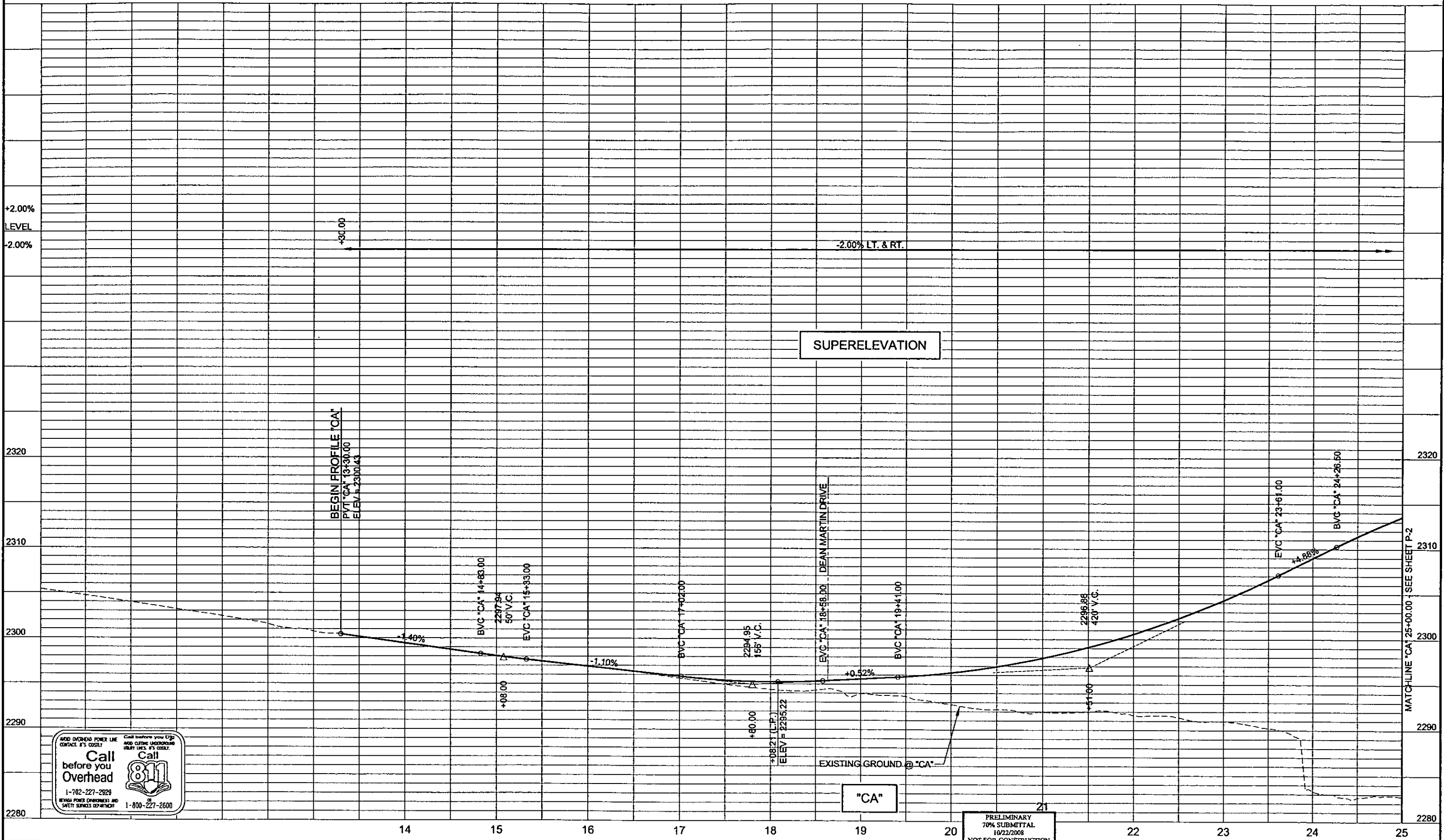
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: CB1014 DRAWN BY: GFV
 DESIGNED BY: KK CHECKED BY: LSF
 APPROVED BY: TDL

THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89110
 PHONE (702) 736-0632 • FAX (702) 736-0704

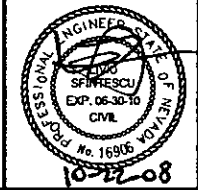
SCALE		SHEET No
HORIZ:	AS SHOWN	C-9
VERT:	NONE	
FIELD BOOK:	NONE	
WORK ORDER:	2008	



PLOT DATE: Wednesday, 12/27/2006 4:32:38 PM
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 REFERENCE FILES:

Call before you dig
Call before you Overhead
 1-702-227-2829
 NEVADA POWER CORPORATION AND
 SWEET SERVICES DEPARTMENT 1-800-227-2600

PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION



PROJECT No:	1014	DRAWN BY:	GFV
DESIGNED BY:	KK	CHECKED BY:	LSF
APPROVED BY:	TDL		

THE Louis Berger Group, INC.
 500 AMGO COURT, SUITE 100 *LAS VEGAS, NEVADA *89119
 PHONE (702) 736-0832 *FAX (702) 736-0704

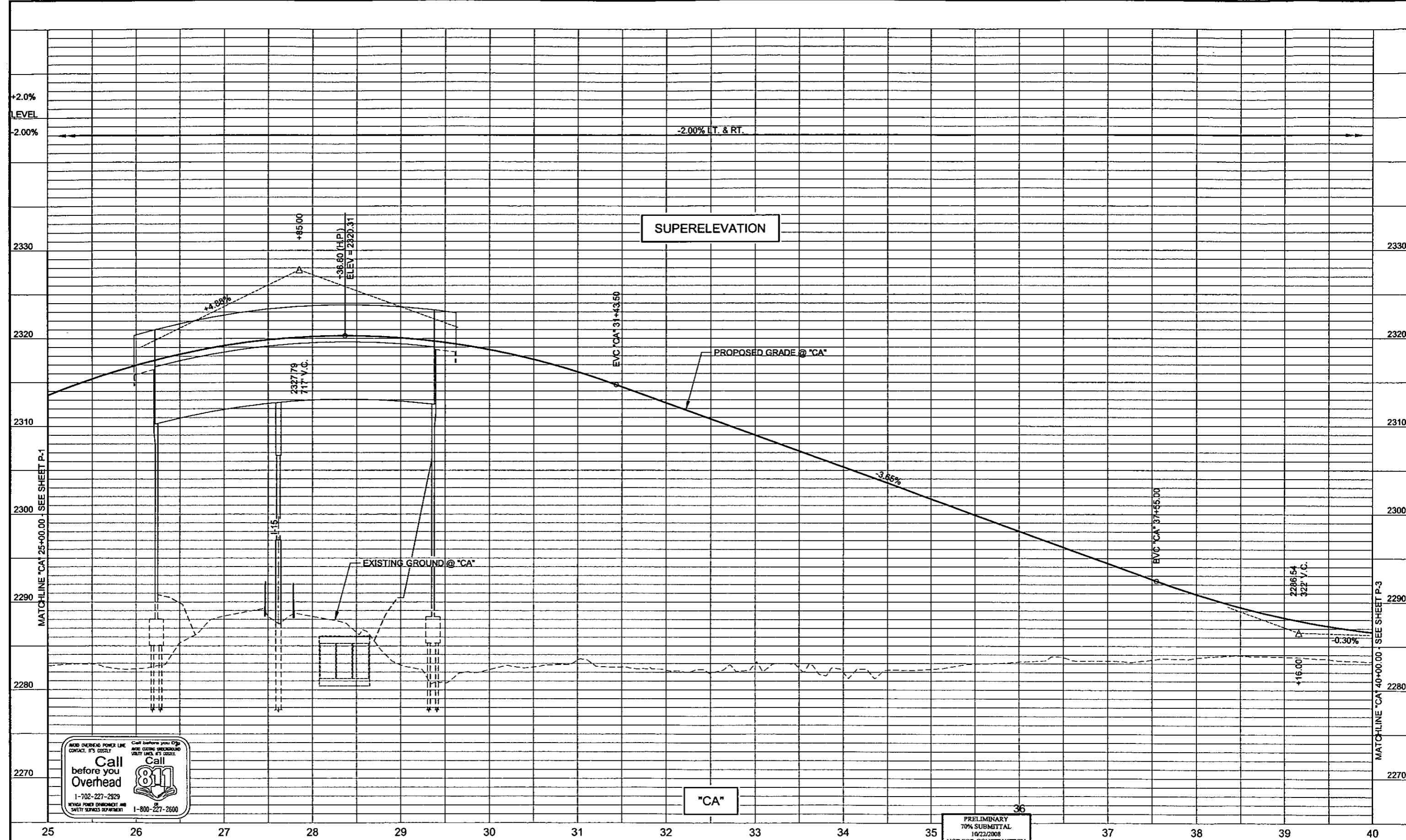


CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
PROFILE
 "CA" 13+30.00 to "CA" 25+00.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

SHEET No
P-1

REV. NO.	DATE	DESCRIPTION	APPROVED

PLOT DATE: Wednesday, 7/23/2008 11:31:35 AM
 FILE NAME: P:\CCTUS\CA\CACTUS\CONSTRUCTION\PROFILES\11\PHASE 3\PRO.DWG
 REFERENCE FILES:



Call before you Dig
 Call before you Overhead
 1-702-227-2929
 NEVADA POWER ENVIRONMENT AND SAFETY SERVICES DEPARTMENT
 Call before you Dig
 Call before you Overhead
 1-800-227-2600

PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

ENGINEER-STATE OF NEVADA
 SPATSCU
 EXP. 06/30/11
 CIVIL
 No. 16906

10-22-08

PROJECT No: 1014 DRAWN BY: GFV
 DESIGNED BY: KK CHECKED BY: LSF
 APPROVED BY: TDL

SCALE
 HORIZ: AS SHOWN
 VERT: AS SHOWN
 FIELD BOOK NONE
 WORK ORDER 2008-

SHEET No
P-2

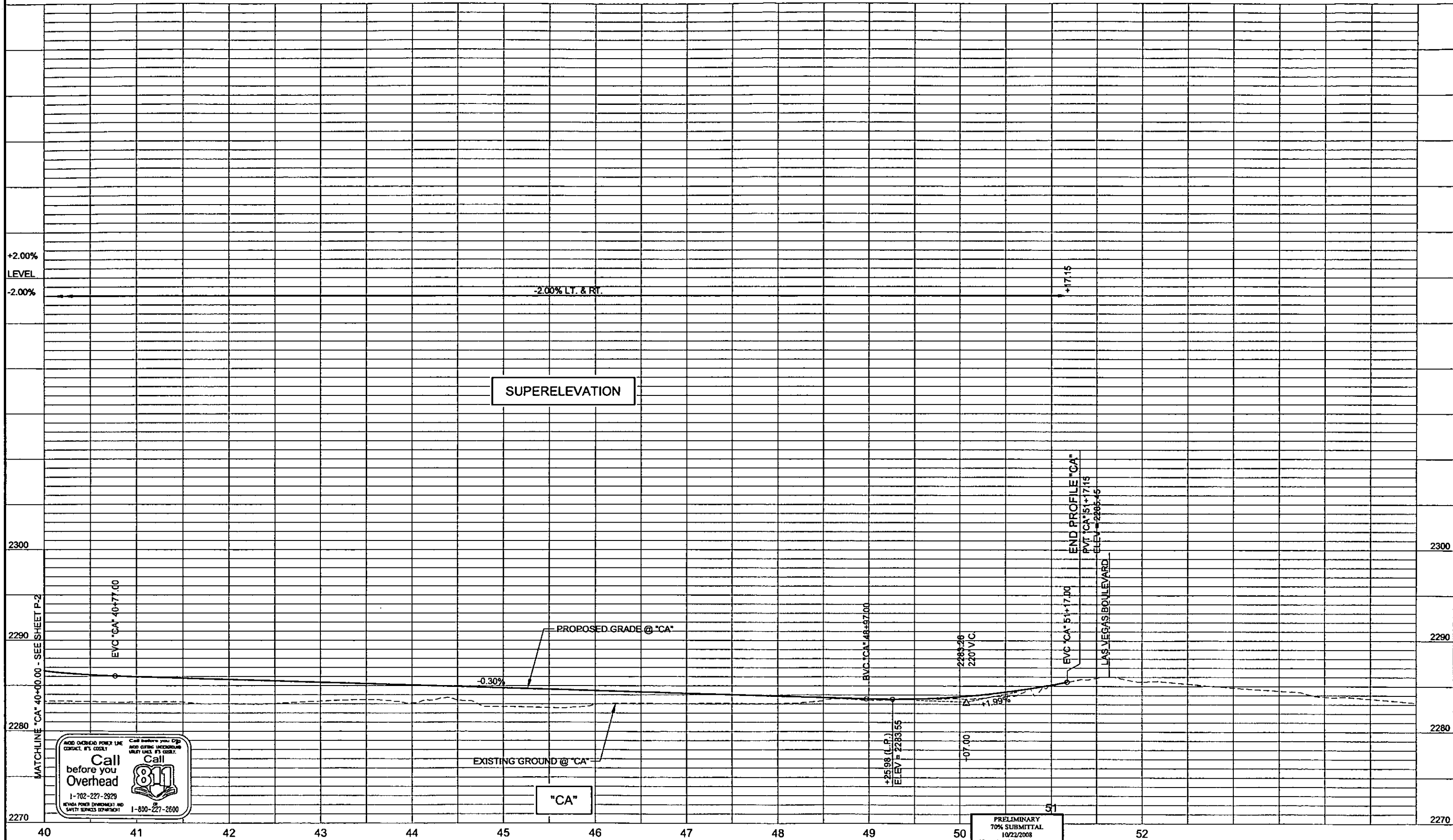
THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 *LAS VEGAS, NEVADA *89119
 PHONE (702) 736-0832 *FAX (702) 736-0704



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
PROFILE
 "CA" 25+00.00 to "CA" 40+00.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

REV. NO.	DATE	DESCRIPTION	APPROVED

CACTUS AVENUE / I-15 INTERCHANGE



PLOT DATE: Wednesday, 10/21/2008 11:32:00 AM
FILE NAME: P:\CCTV\8101\CACTUS\PLAN\PHASE 2\SHEET\CONSTRUCTION\PROFILES\1814\PHASE 2\PRO.DWG
REFERENCE FILES:



SUPERELEVATION

PROPOSED GRADE @ "CA"

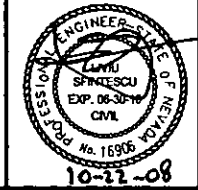
EXISTING GROUND @ "CA"

"CA"

END PROFILE "CA"
PVI "CA" 51+17.15
ELEV = 2285.15

LAS VEGAS BOULEVARD

PRELIMINARY
70% SUBMITTAL
10/22/2008
NOT FOR CONSTRUCTION



PROJECT No: 1014 DRAWN BY: GFV
 DESIGNED BY: KK CHECKED BY: LSF
 APPROVED BY: TDL

THE Louis Berger Group, INC.
 500 AMGO COURT, SUITE 100 LAS VEGAS, NEVADA 89119
 PHONE (702) 736-0632 * FAX (702) 736-0704

SCALE
 HORIZ: AS SHOWN
 VERT: AS SHOWN
 FIELD BOOK: NONE
 WORK ORDER: 2008

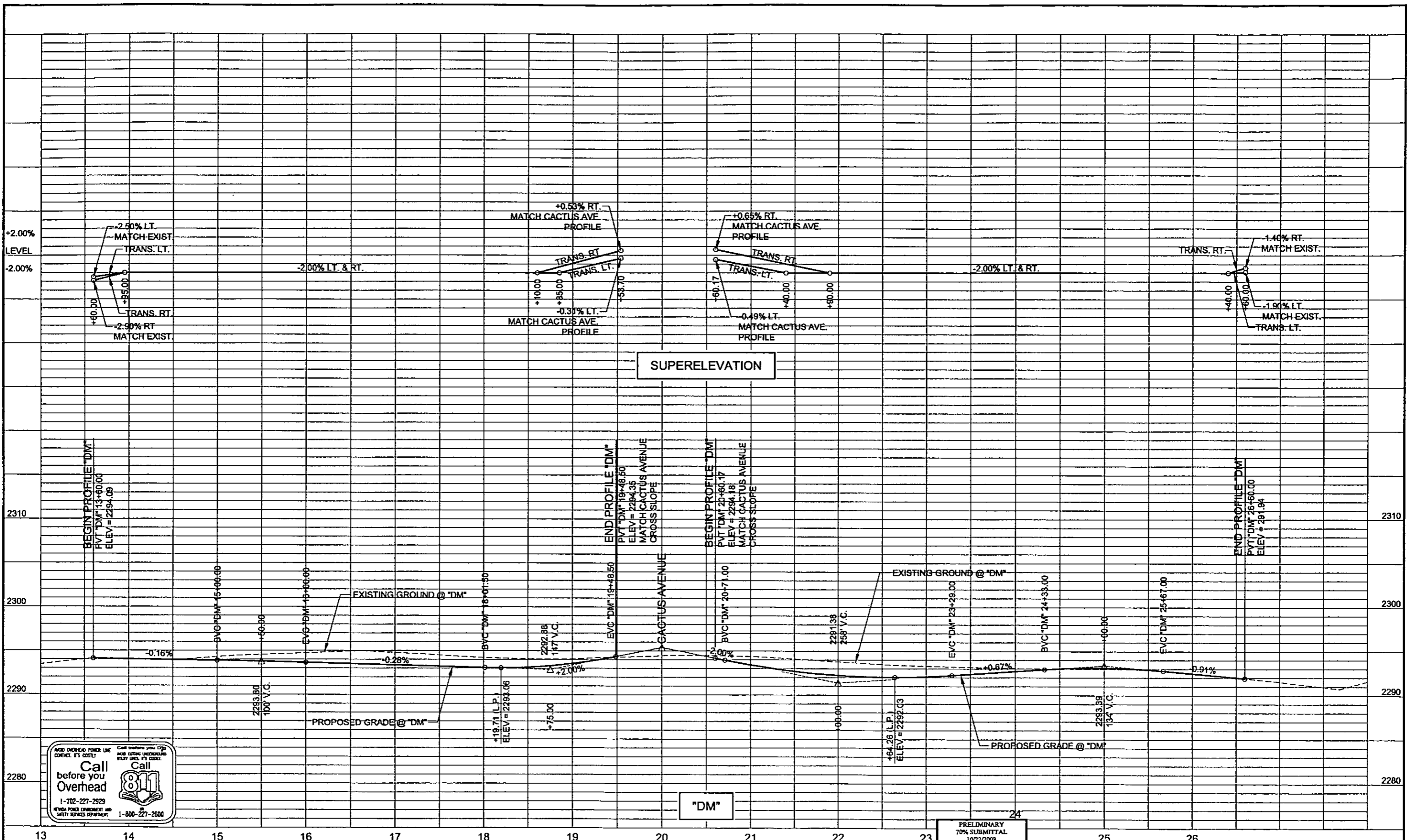
SHEET No
P-3

REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
PROFILE
 "CA" 40+00.00 to "CA" 51+32.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PLOT DATE: Wednesday, July 26, 2006 4:52:13 PM
 FILE NAME: P:\CCTUS\181-CACTUS\PLANS\PHASE 2\SHEETS\CONSTRUCTION\PROFILES\1814\PHASE 2\PL01.DWG
 REFERENCE FILES:

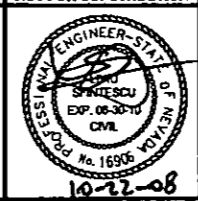


Call before you Overhead
 1-702-227-2929
 NEVADA POWER ENVIRONMENT AND SAFETY SERVICES DEPARTMENT
 1-800-227-2500

PRELIMINARY
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 10/22/2008
 NOT FOR CONSTRUCTION



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
PROFILE
 "DM" 13+60.00 to "DM" 26+60.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

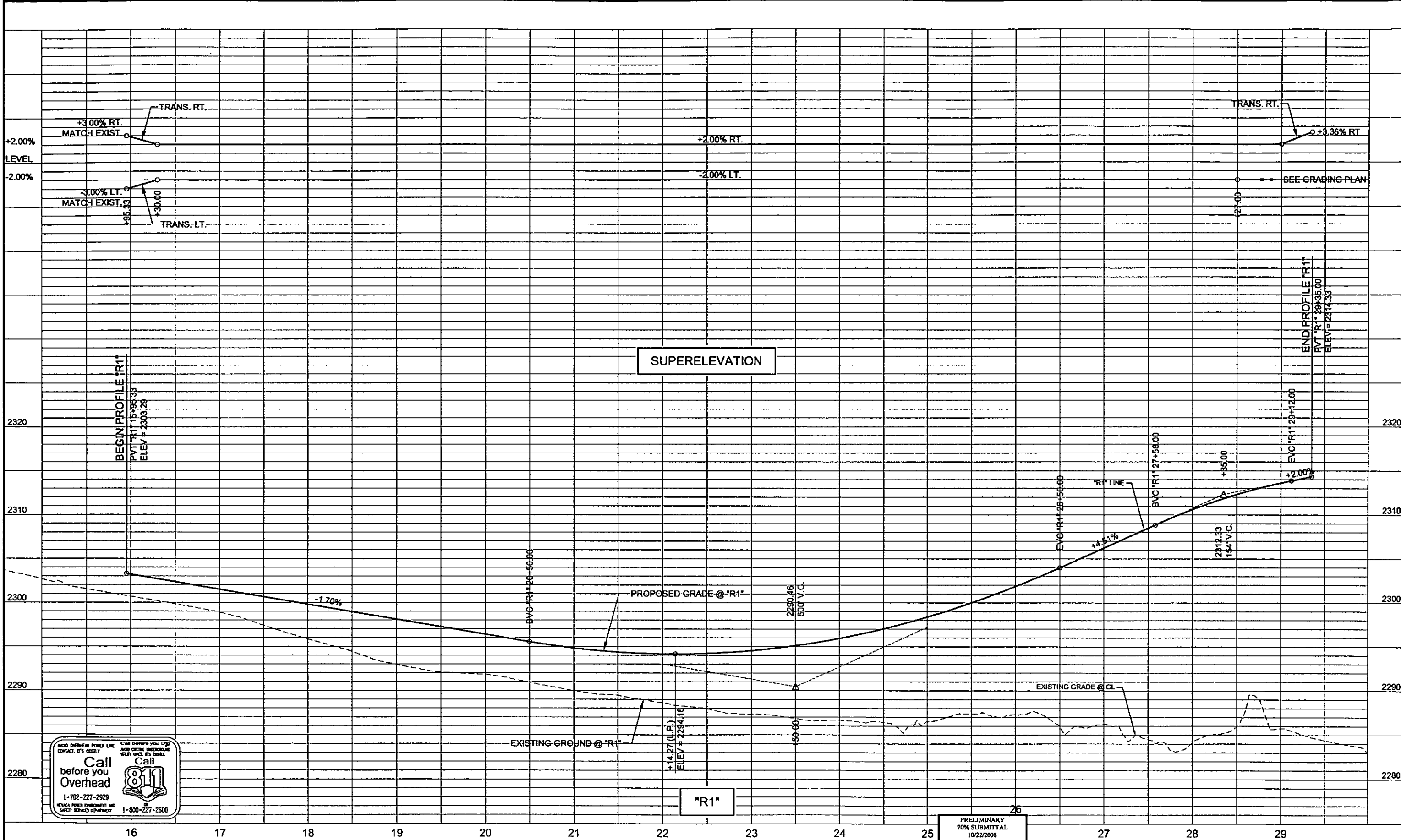


PROJECT No: 1014 DRAWN BY: GFV
 DESIGNED BY: KK CHECKED BY: LSF
 APPROVED BY: TDL
THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119
 PHONE: (702) 736-6032 • FAX: (702) 736-0704

SCALE	HORIZ: AS SHOWN	SHEET No P-4
	VERT: AS SHOWN	
	FIELD BOOK: NONE	
	WORK ORDER: 2008-	

REV. NO.	DATE	DESCRIPTION	APPROVED

PLOT DATE: Wednesday, April 28, 2008 4:51:50 PM
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 REFERENCE FILES:



Call before you Overhead
 1-702-227-2929
 NEVADA POWER EQUIPMENT AND SAFETY SERVICES EQUIPMENT 1-800-227-2600

REV. NO.	DATE	DESCRIPTION	APPROVED

CLARK COUNTY NEVADA

CACTUS AVENUE / I-15 INTERCHANGE

DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD

PROFILE

"R1" 15+95.33 to "R1" 29+35.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

10-22-08

PROJECT No: 1014 DRAWN BY: GFY
 DESIGNED BY: KK CHECKED BY: LSF
 APPROVED BY: TDL

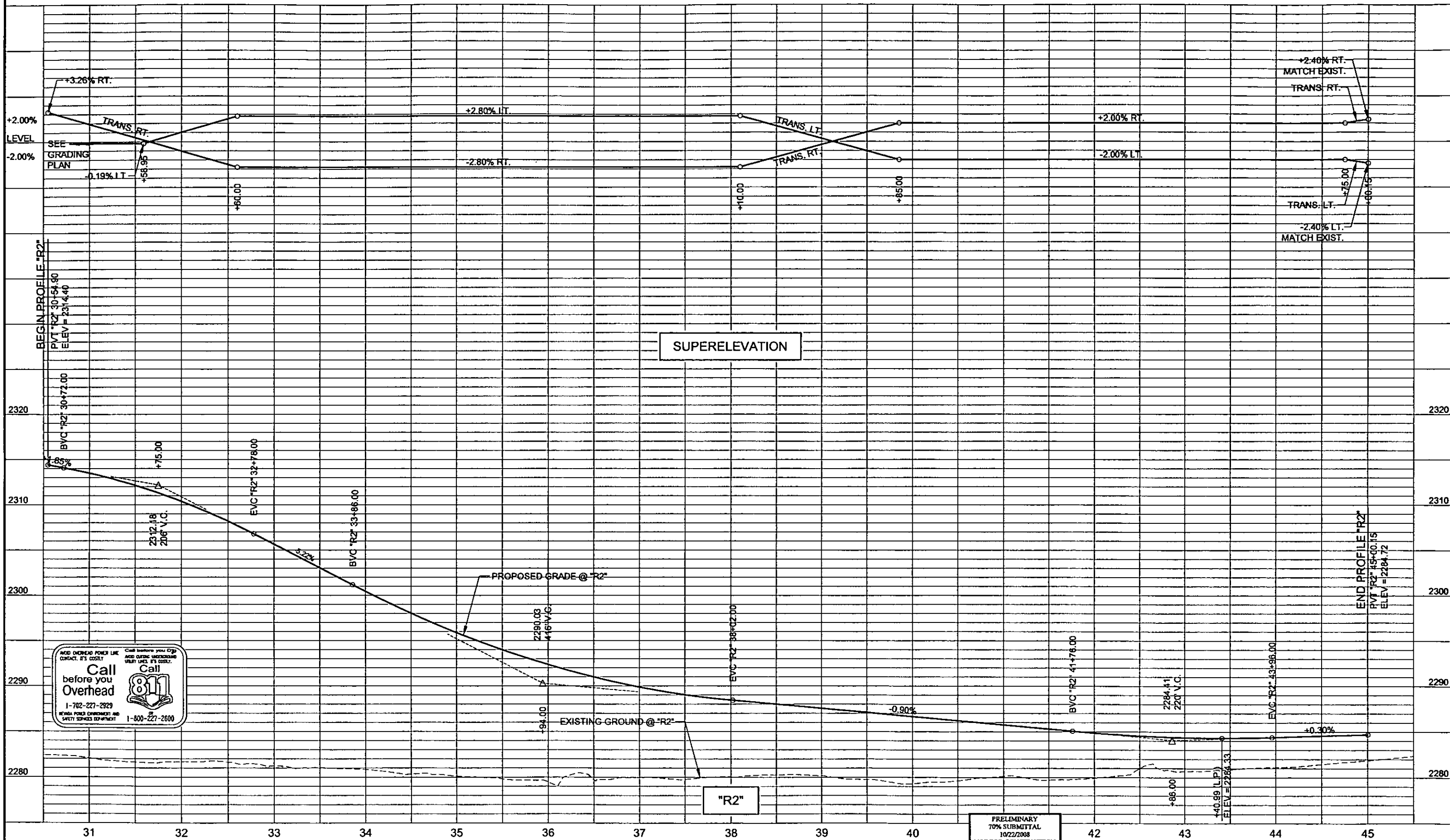
THE Louis Berger Group, INC.
 500 AMGO COURT, SUITE 100 LAS VEGAS, NEVADA 89110
 PHONE (702) 736-6632 *FAX (702) 736-0704

SCALE

HORIZ: AS SHOWN
 VERT: AS SHOWN
 FIELD BOOK NONE
 WORK ORDER 2008-

SHEET No
P-5

PLOT DATE: Wednesday, 10/22/2008 11:34:11 AM
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 REFERENCE FILES:

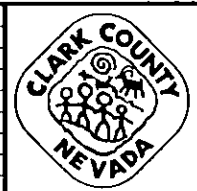


NEED OVERHEAD POWER LINE CONTACT. IT'S COSTLY. Call before you Dig. Call before you Dig. ADD COSTS. CALL BEFORE YOU DIG. CALL BEFORE YOU DIG.

Call before you Overhead

1-702-227-2929
 1-800-227-2600

NEVADA POWER CORPORATION AND SAFETY SERVICES DEPARTMENT



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
PROFILE
 "R2" 30+54.90 to "R2" 45+00.15
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

THE ENGINEERING SEAL OF THE STATE OF NEVADA
 CIVIL ENGINEER
 EXP. 06-30-04
 No. 16905

10-22-08

PROJECT No: 1014 DRAWN BY: GFV
 DESIGNED BY: KK CHECKED BY: LSF
 APPROVED BY: TDL

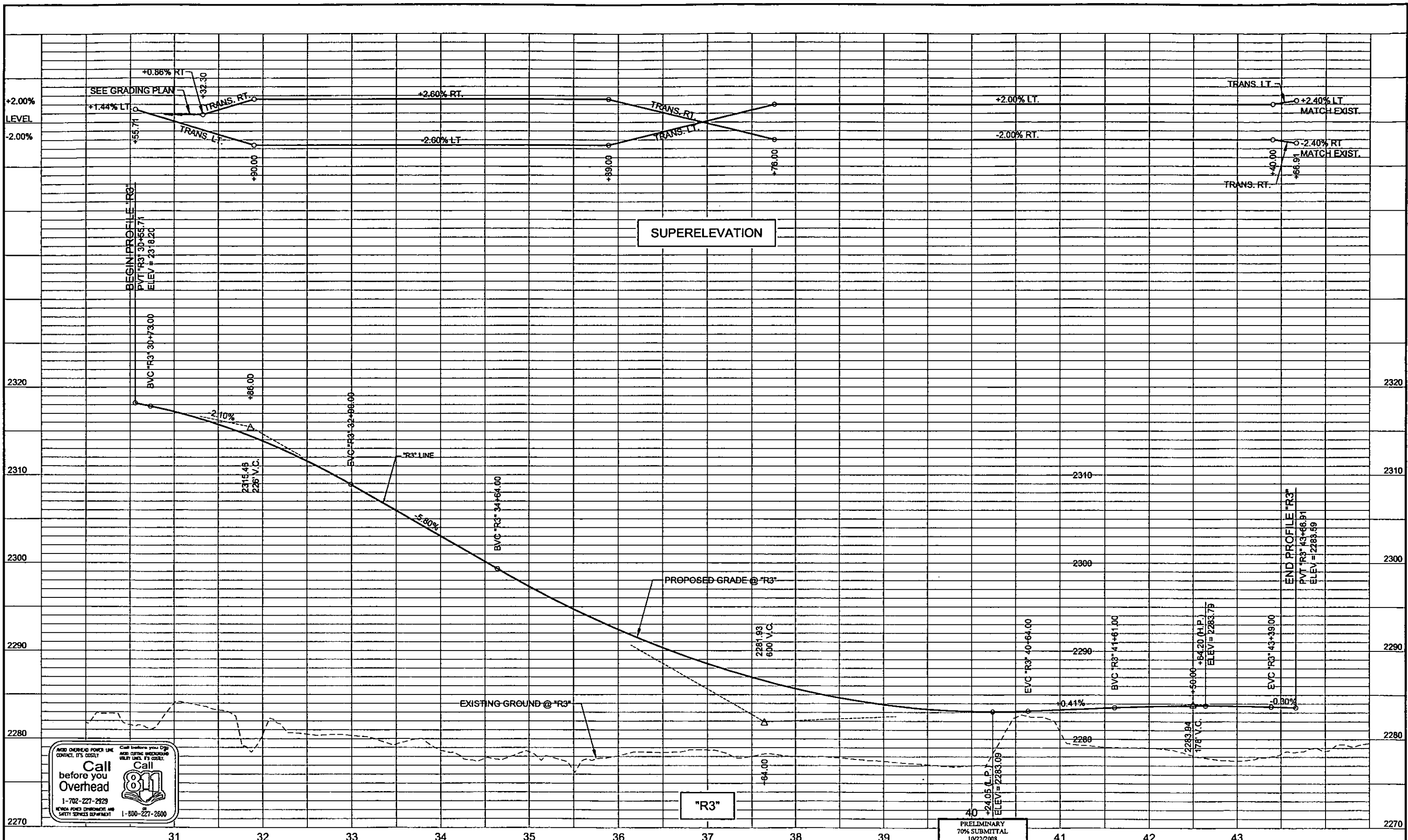
THE Louis Berger Group, INC.
 600 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119
 PHONE (702) 736-8832 • FAX (702) 736-0704

SCALE
 HORIZ: AS SHOWN
 VERT: AS SHOWN
 FIELD BOOK: NONE
 WORK ORDER: 2008-

SHEET No
P-6

REV. NO.	DATE	DESCRIPTION	APPROVED

PLOT DATE: Wednesday, 7/26/2006 4:52:03 PM
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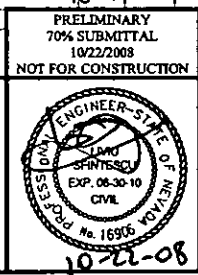


SUPERELEVATION

"R3"



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
PROFILE
 "R3" 20+55.71 to "R3" 43+66.91
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

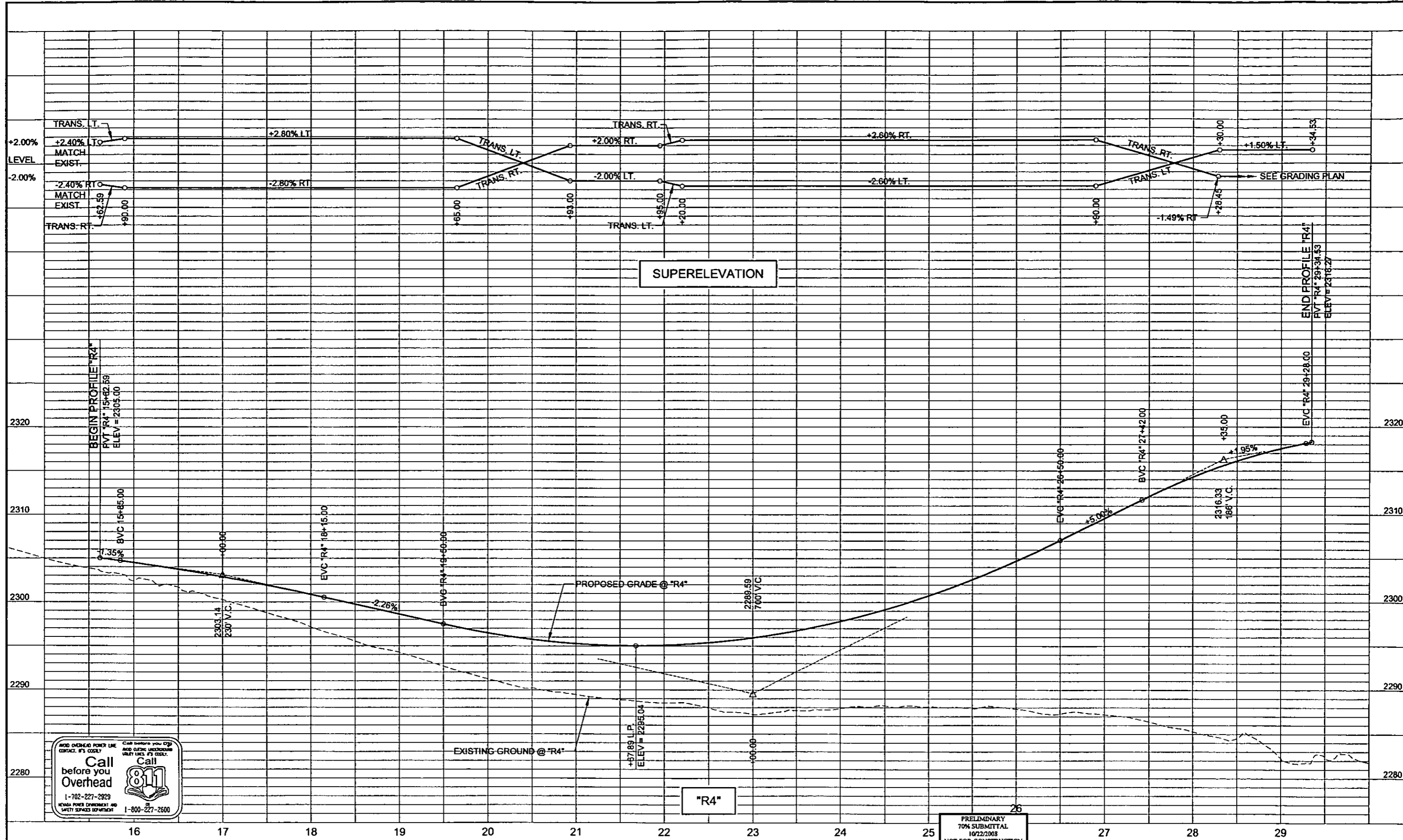


PROJECT No: 1014 DRAWN BY: GFV
 DESIGNED BY: KK CHECKED BY: LSF
 APPROVED BY: TDL
THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119
 PHONE (702) 736-8532 • FAX (702) 736-0704

SCALE
 HORIZ: AS SHOWN
 VERT: AS SHOWN
 FIELD BOOK NONE
 WORK ORDER 2008
 SHEET No
P-7

REV. NO.	DATE	DESCRIPTION	APPROVED

PLOT DATE: Wednesday, July 21, 2008 4:08:54 PM
 FILE NAME: P:\CIP\1016-CACTUS\PHASE 2\CONSTRUCTION\PROFILES\14-PHASE 2-PROFILE.DWG
 REFERENCE FILES:



Call before you Overhead
 1-702-227-2929
 NEVADA POWER DEPARTMENT AND SAFETY SERVICES DEPARTMENT
 Call before you dig
 AND OLEFIC UNDERGROUND UTILITY LINES IT'S DEADLY!
 Call 811
 1-800-227-2600

PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION
 ENGINEER
 STATE OF NEVADA
 LVN
 SPINELLI
 EXP. 06-30-10
 CIVIL
 No. 16906

PROJECT No: 1014
 DESIGNED BY: KX
 APPROVED BY: TDL
 DRAWN BY: GFV
 CHECKED BY: LSF
 THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 * LAS VEGAS, NEVADA * 89119
 PHONE (702) 736-0532 * FAX (702) 736-0704

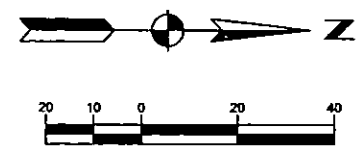
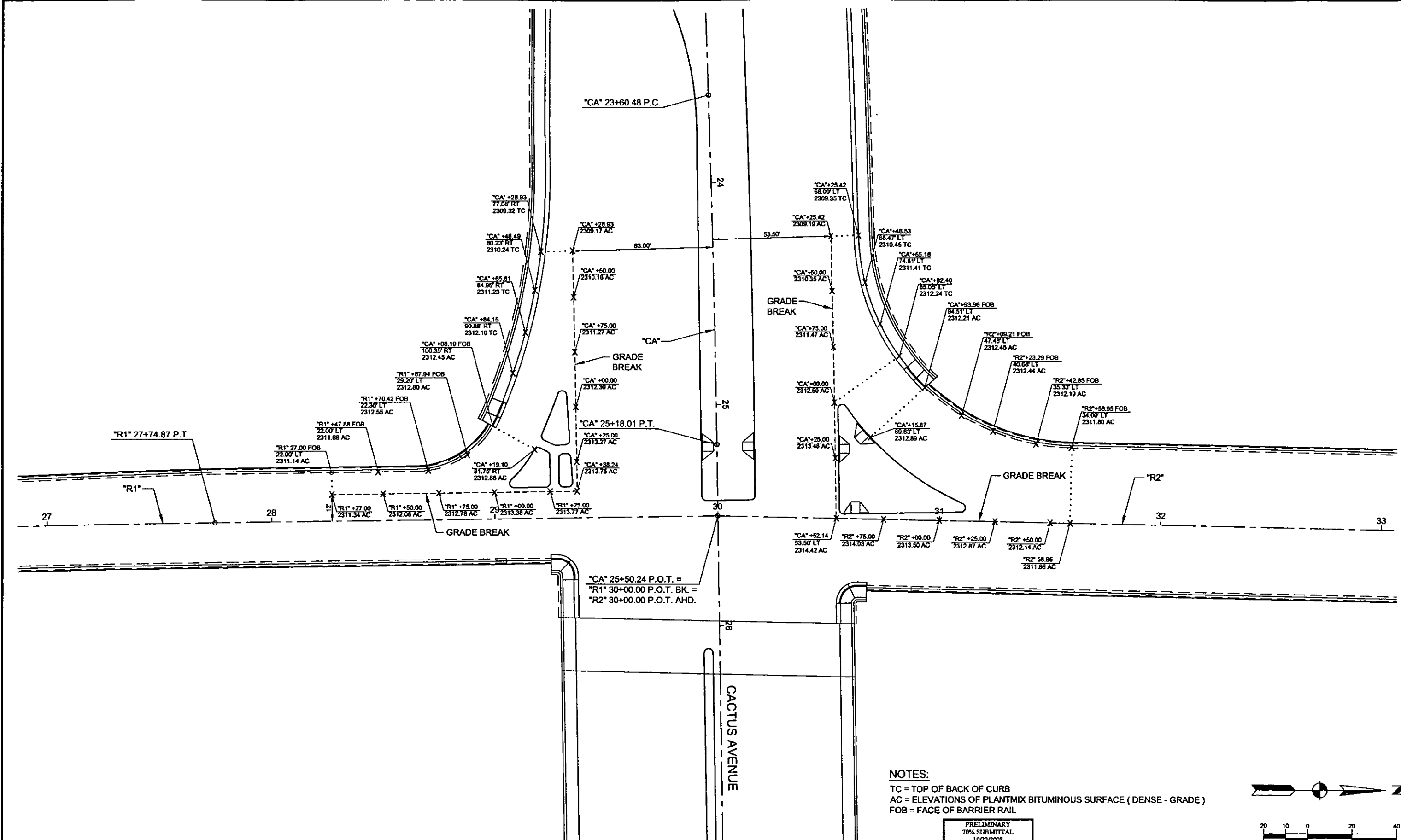
SCALE
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 VERT: AS SHOWN
 FIELD BOOK: NONE
 WORK ORDER: 2008-
 SHEET No
P-8



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
PROFILE
 "R4" 13+30.00 to "R4" 29+34.53
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

REV. NO.	DATE	DESCRIPTION	APPROVED

PLOT DATE: Wednesday, July 23, 2008 4:02:31 PM
 FILE NAME: P:\CCTUS\B101-CACTUS\PLANS\PHASE 2\SHEETS\GRADING\B101-CACTUS PHASE 2\DT1.DWG
 REFERENCE FILES:



REV. NO.	DATE	DESCRIPTION	APPROVED

CACTUS AVENUE / I-15 INTERCHANGE

DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD

GRADING PLAN

RAMP 'R1' AND RAMP 'R2'

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

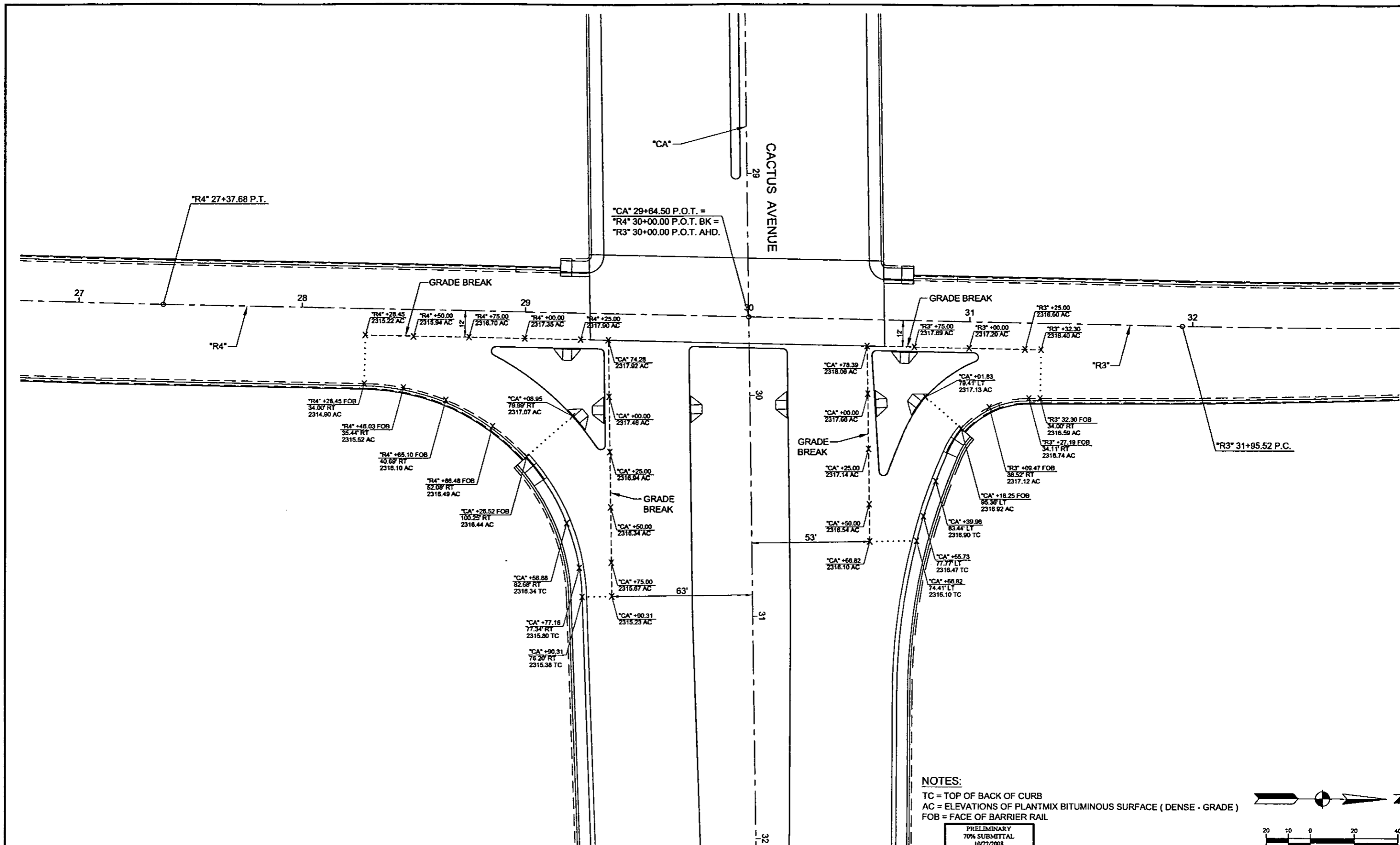
PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

PROJECT No: CB1014 DRAWN BY: GFV
 DESIGNED BY: HB CHECKED BY: LSF
 APPROVED BY: TDL

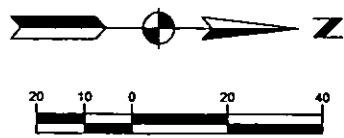
THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA 89119
 PHONE (702) 736-8032 • FAX (702) 736-0704

SCALE HORIZ: AS SHOWN VERT: NONE FIELD BOOK: NONE WORK ORDER: 2008-	SHEET No <h1 style="margin: 0;">DT-1</h1>
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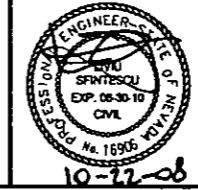
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 REFERENCE FILES:



NOTES:
 TC = TOP OF BACK OF CURB
 AC = ELEVATIONS OF PLANTMIX BITUMINOUS SURFACE (DENSE - GRADE)
 FOB = FACE OF BARRIER RAIL



PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION



PROJECT No: 1014 DRAWN BY: GFV
 DESIGNED BY: HB CHECKED BY: LSF
 APPROVED BY: TDL
THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119
 PHONE (702) 736-8632 • FAX (702) 736-0704

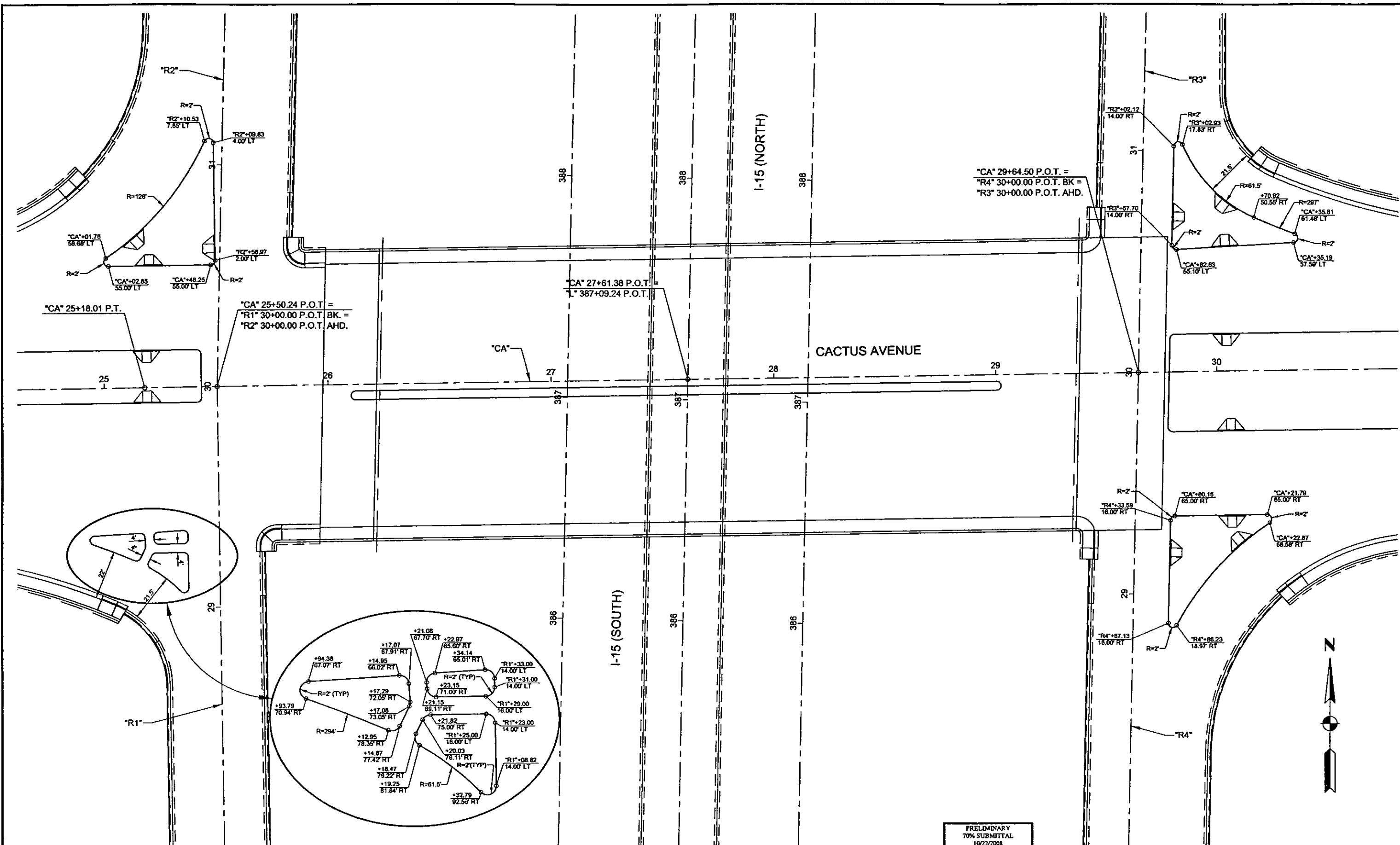
SCALE
 HORIZ: AS SHOWN
 VERT: NONE
 FIELD BOOK NONE
 WORK ORDER 2008-
 SHEET No
DT-2

REV. NO.	DATE	DESCRIPTION	APPROVED

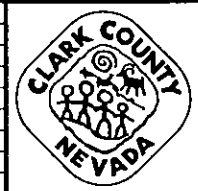
CLARK COUNTY NEVADA

CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
GRADING PLAN
 RAMP 'R3 AND RAMP 'R4'
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PLOT DATE: Wednesday, July 26, 2006 4:45:53 PM
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 REFERENCE FILES:

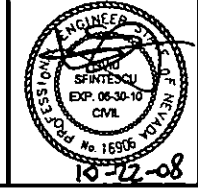


REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
TURNING ISLAND DETAIL
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

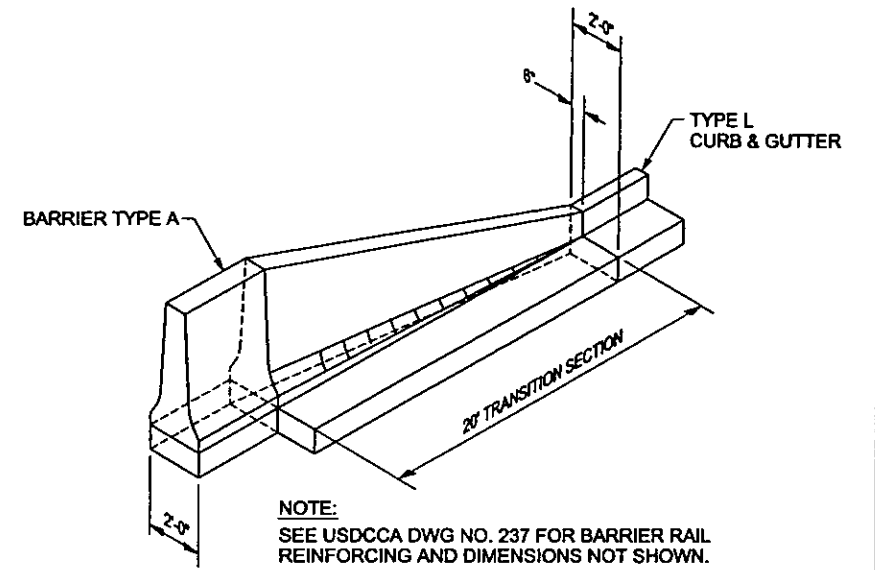
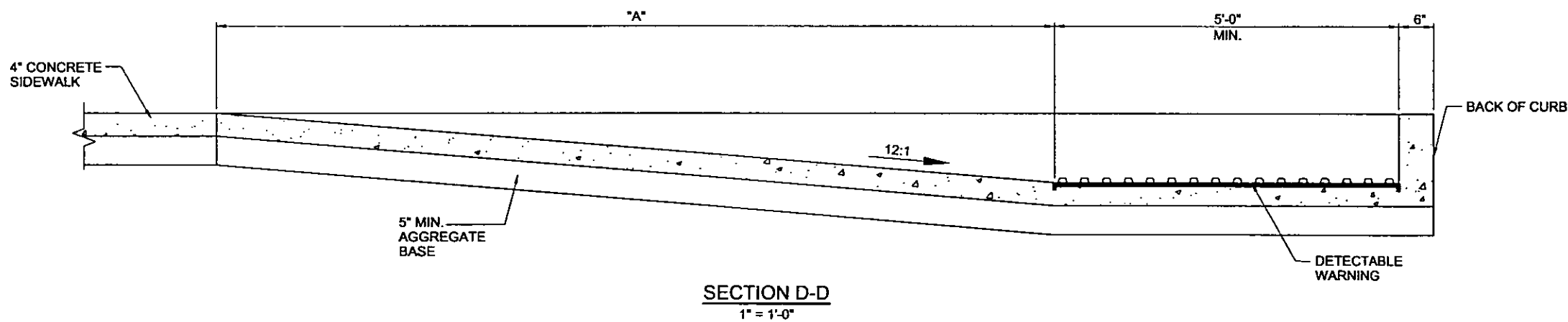
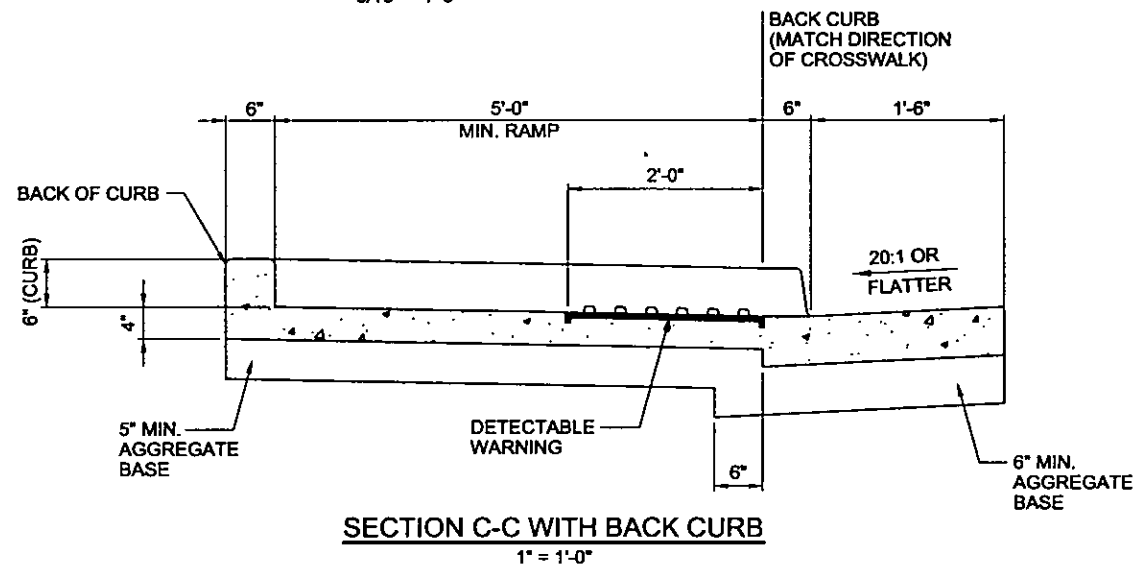
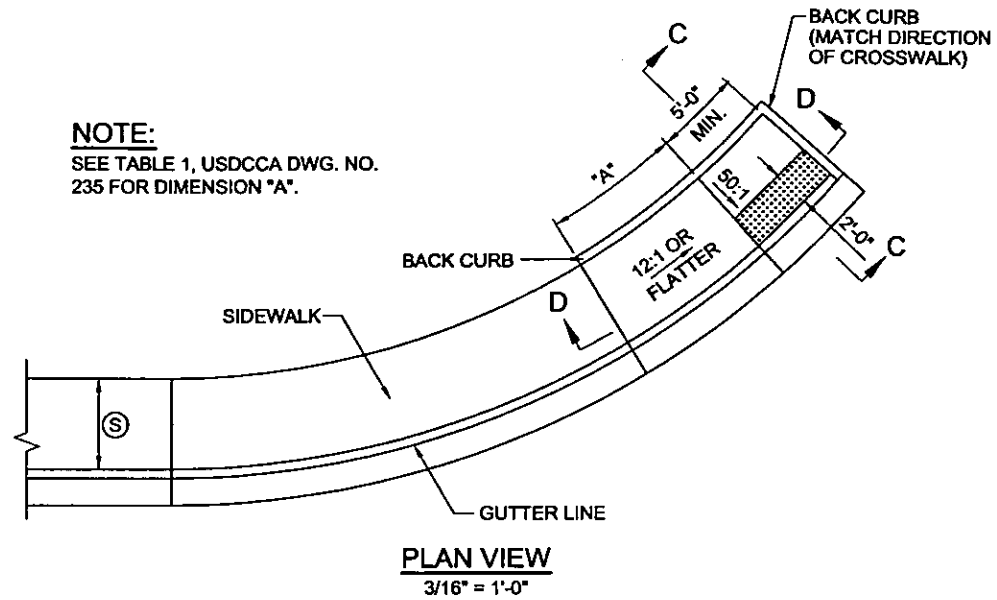
PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION



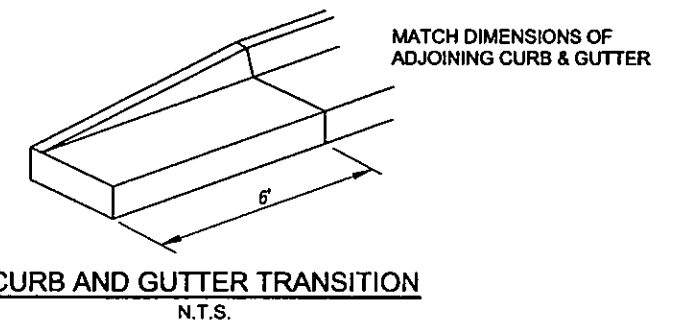
PROJECT No: 1014 DRAWN BY: JPS
 DESIGNED BY: HB CHECKED BY: LSF
 APPROVED BY: TDL
THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA 89119
 PHONE (702) 736-6632 • FAX (702) 736-0704

SCALE		SHEET No
HORIZ:	AS SHOWN	DT-3
VERT:	NONE	
FIELD BOOK	NONE	
WORK ORDER	2006-	

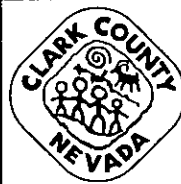
NOTE:
SEE TABLE 1, USDCCA DWG. NO. 235 FOR DIMENSION "A".



CURB & GUTTER TYPE L TO BARRIER RAIL TYPE A TRANSITION
N.T.S.



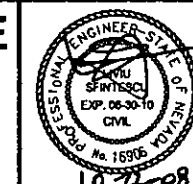
SPECIAL CONCRETE SIDEWALK RAMP



CACTUS AVENUE / I-15 INTERCHANGE
DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
DETAILS

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PRELIMINARY
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PROJECT No: 1014 DRAWN BY: SSM
DESIGNED BY: HB CHECKED BY: LSF
APPROVED BY: TDL
THE Louis Berger Group, INC.
500 AMIGO COURT, SUITE 100 LAS VEGAS, NEVADA 89119
PHONE (702) 736-0832 FAX (702) 736-0704

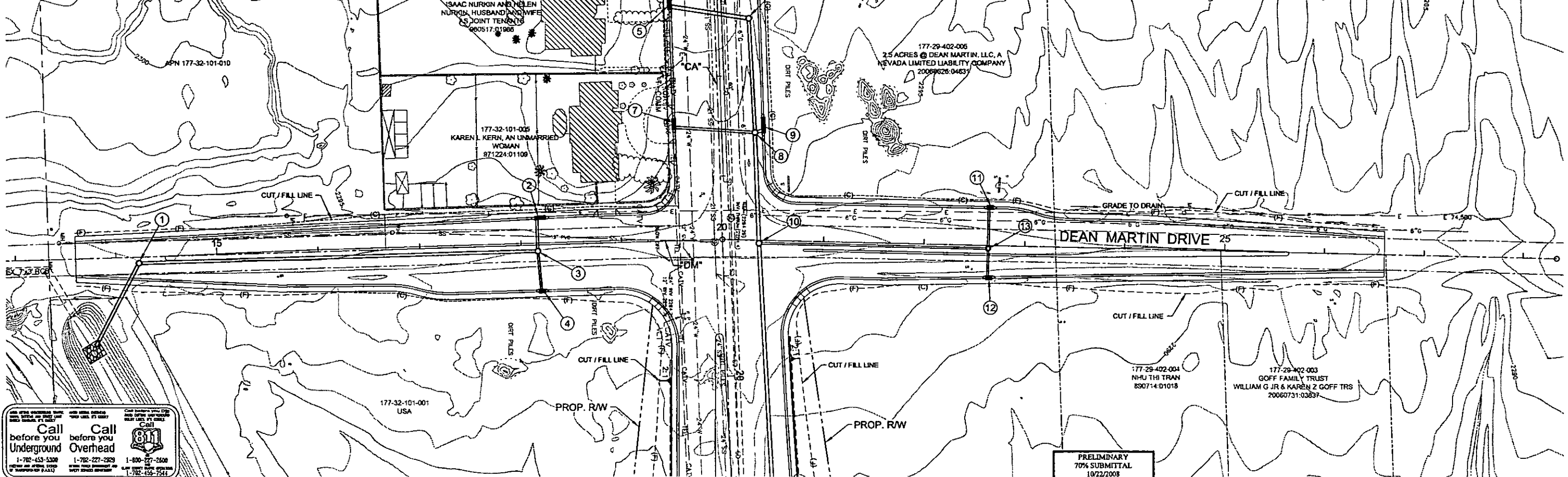
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HORIZ:
VERT:
FIELD BOOK NONE
WORK ORDER 2008

SHEET No
DT-5

PLOT DATE: Wednesday, 24, 2008 4:43:29 PM
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REFERENCE FILES:

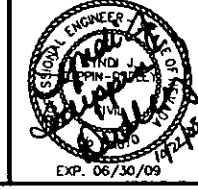
REV. NO.	DATE	DESCRIPTION	APPROVED

- ① "DM" 14+22.71, 6.00 RT CONSTRUCT 60" TYPE III MANHOLE. INSTALL 30" X 84" RCP WITH END SECTION AND RIRAP APRON (SEE SHEET SD-213).
- ② "DM" 18+19.68, 27.56' RT CONSTRUCT DROP INLET TYPE "DM2" (L=10'). INSTALL 24" X 29" RCP (SEE SHEET SD-213).
- ③ "DM" 18+16.44, 6.00' RT CONSTRUCT 60" TYPE III MANHOLE. INSTALL 30" X 389' RCP (SEE SHEET SD-213).
- ④ "DM" 18+19.71, 46.50' RT CONSTRUCT DROP INLET TYPE "DM2" (L=5'). INSTALL 18" X 36" RCP (SEE SHEET SD-213).
- ⑤ "CA" 17+46.36, 44.49' RT CONSTRUCT DROP INLET TYPE "DM2" (L=20'). INSTALL 38" X 24" X 76" HE-RCP (SEE SHEET SD-213).
- ⑥ "CA" 16+43.20, 33.47' LT CONSTRUCT 60" TYPE III MANHOLE. INSTALL 30" X 111' RCP (SEE SHEET SD-213).
- ⑦ "CA" 17+46.36, 44.49' RT CONSTRUCT DROP INLET TYPE "DM2" (L=10'). INSTALL 24" X 78" RCP.
- ⑧ "CA" 17+57.58, 35.70' LT CONSTRUCT 60" TYPE III MANHOLE. INSTALL 36" X 107' RCP (SEE SHEET SD-213).
- ⑨ "CA" 17+52.85, 44.50' LT CONSTRUCT DROP INLET TYPE "DM2" (L=15'). INSTALL 30" X 6" RCP.
- ⑩ "CA" 18+68.54, 35.75' LT CONSTRUCT 60" TYPE III MANHOLE. INSTALL 36" X 249' RCP (SEE SHEET SD-213).
- ⑪ "DM" 22+64.26, 38.50' LT CONSTRUCT DROP INLET TYPE "DM2" (L=5'). INSTALL 18" X 38" RCP.
- ⑫ "DM" 22+64.26, 32.45' RT CONSTRUCT DROP INLET TYPE "DM2" (L=5'). INSTALL 18" X 26" RCP.
- ⑬ "DM" 22+63.14, 3.00' RT CONSTRUCT 48" TYPE IA MANHOLE. INSTALL 18" X 224' RCP.



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 1-702-453-5300
 1-702-227-2929
 1-800-277-2608
 1-702-155-7541

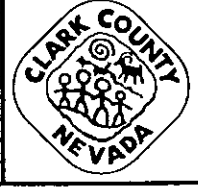
PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION



PROJECT No: 1014 DRAWN BY: JPS
 DESIGNED BY: FRK CHECKED BY: SJD
 APPROVED BY: TDL

THE Louis Berger Group, Inc.
 500 AMIGO COURT, SUITE 100 *LAS VEGAS, NEVADA *89118
 PHONE (702) 736-8832 *FAX (702) 736-0704

SCALE	HORIZ: AS SHOWN	VERT: NONE	FIELD BOOK: NONE	WORK ORDER: 2008
SHEET No	SD-101			

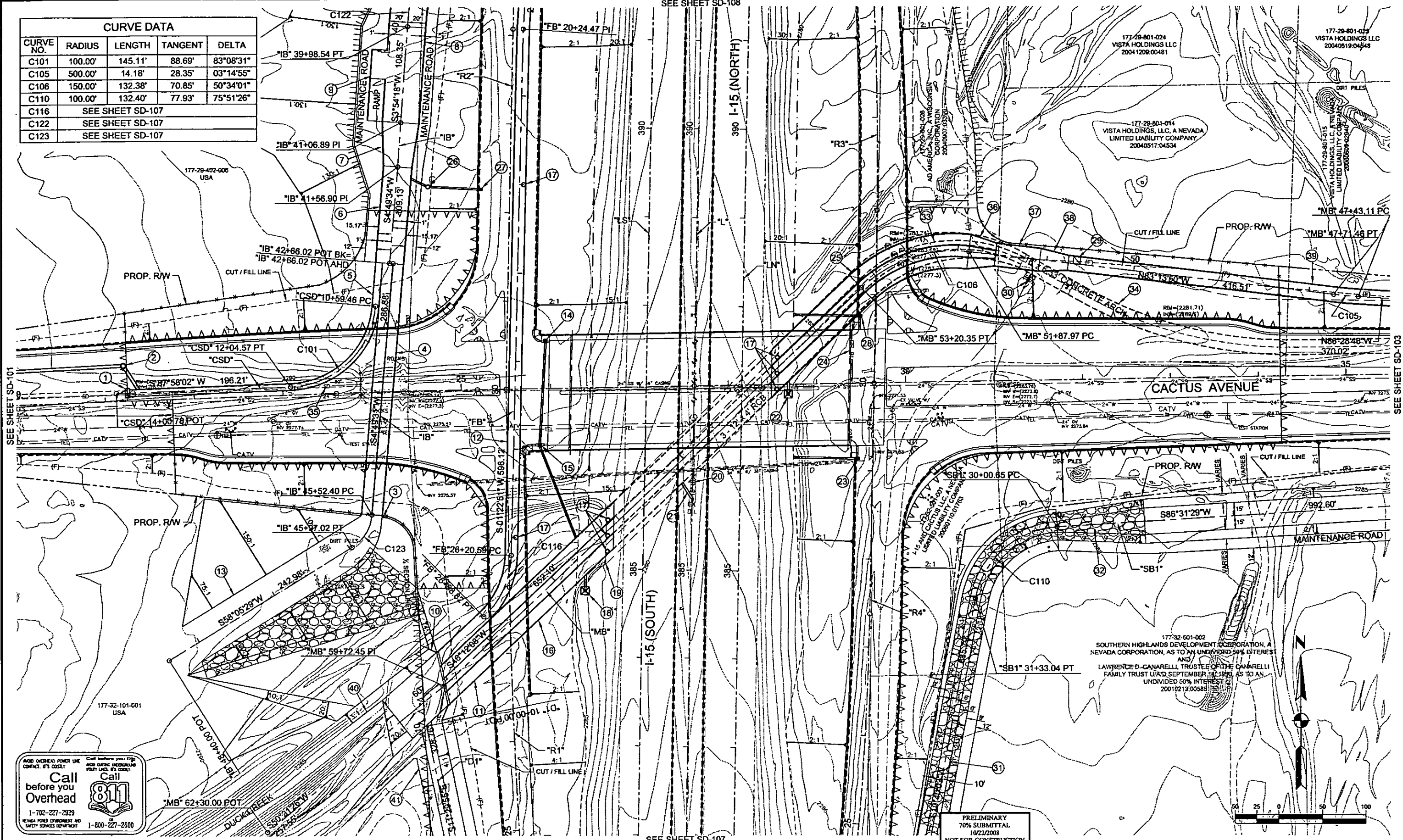


CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
DRAINAGE PLAN
 "CA" 12+00.00 to "CA" 20+50.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

REV. NO.	DATE	DESCRIPTION	APPROVED

PLOT DATE: Wednesday, July 23, 2008 1:48:41 PM
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 REFERENCE FILES:

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C101	100.00'	145.11'	88.69'	83°08'31"
C105	500.00'	14.18'	28.35'	03°14'55"
C106	150.00'	132.38'	70.85'	50°34'01"
C110	100.00'	132.40'	77.93'	75°51'26"
C116	SEE SHEET SD-107			
C122	SEE SHEET SD-107			
C123	SEE SHEET SD-107			



SEE SHEET SD-101

SEE SHEET SD-103

SEE SHEET SD-108

SEE SHEET SD-107

Call before you Overhead
 1-800-227-2500
 Call before you dig
 1-800-227-2500

PRELIMINARY
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 10/22/2008
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PROJECT No:	1014	DRAWN BY:	JPS	SCALE:	SHEET No:
DESIGNED BY:	VS	CHECKED BY:	SJD	HORIZ:	AS SHOWN
APPROVED BY:	TDL			VERT:	NONE
				FIELD BOOK:	NONE
				WORK ORDER:	2008

THE Louis Berger Group, Inc.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119
 PHONE (702) 736-8833 • FAX (702) 736-0704



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
DRAINAGE PLAN
 "CA" 20+50.00 TO "CA" 35+00.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

REV. NO.	DATE	DESCRIPTION	APPROVED

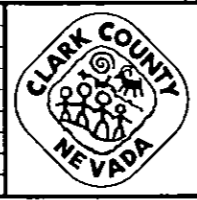
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 REFERENCE FILES:

- ① "CSD" 10+75.02 TO "CSD" 13+88.53 CONSTRUCT NDOT SPECIAL TYPE 4 MANHOLE. CONSTRUCT 7' X 4' X 311' RCB (SEE SHEET SD-204).
- ② "CA" 21+21.41, 40.39' LT CONSTRUCT 60" TYPE III MANHOLE PER CCAUSD NO. 406. INSTALL 36" X 33' RCP.
- ③ "IB" 45+52.02 CONSTRUCT NDOT TYPE I HEADWALL (0° SKEW).
- ④ "IB" 43+15.48 TO "IB" 45+52.02 CONSTRUCT 2 - 11' X 4' X 228' RCB (SEE SHEET SD-201).
- ⑤ "IB" 42+66.02 TO "IB" 43+15.48 CONSTRUCT 2 - 11' X 4' X 59' AND 1 - 7' X 4' X 59' RCB (SEE SHEET SD-201).
- ⑥ "IB" 41+56.89 TO "IB" 42+66.02 CONSTRUCT 30.33' WIDE CONCRETE CHANNEL (SEE SHEET SD-201).
- ⑦ "IB" 41+06.89 TO "IB" 41+56.89 CONSTRUCT CONCRETE CHANNEL TRANSITION (SEE SHEET SD-201). CONSTRUCT 40' WIDE CONCRETE CHANNEL (SEE SHEETS SD-201 & SD-209).
- ⑧ "IB" 30+05.93 TO "IB" 41+06.89 CONSTRUCT ACCESS RAMP.
- ⑨ "IB" 40+68.12 TO "IB" 40+27.11 CONSTRUCT NDOT TYPE I HEADWALL (0° SKEW).
- ⑩ "MB" 59+72.45 CONSTRUCT NDOT TYPE I HEADWALL (0° SKEW).
- ⑪ "MB" 58+85.76 TO "MB" 59+72.45 CONSTRUCT 3 - 12' X 4' X 87' AND 1 - 13' X 4' X 87' RCB (SEE SHEET SD-206).
- ⑫ "FB" 26+98.82 TO "FB" 13+18.38 INSTALL 13' X 4' X 1381' RCB (SEE SHEET SD-205).
- ⑬ "IB" 45+55.86 TO "IB" 48+05.00 CONSTRUCT EARTHEN CHANNEL WITH RAIPRAP BANK PROTECTION (SEE SHEET SD-201). CONSTRUCT NDOT TYPE 3 DROP INLET. INSTALL 18" X 117' RCP. CONSTRUCT NDOT TYPE 3 DROP INLET. INSTALL 18" X 112' RCP.
- ⑭ "R2" 30+56.05, 42.87' RT CONSTRUCT NDOT TYPE 3 DROP INLET. INSTALL 18" X 112' RCP.
- ⑮ "R2" 29+35.50, 36.43' RT CONSTRUCT NDOT TYPE 3 DROP INLET. INSTALL 18" X 112' RCP.
- ⑯ "MB" 57+08.68 TO "MB" 58+85.76 CONSTRUCT RCB MANHOLE.
- ⑰ "MB" 54+43.25, 8.67' RT
"MB" 54+56.08, 4.00' LT
"MB" 54+68.92, 16.67' LT
"MB" 57+09.17, 8.67' LT
"MB" 57+21.77, 4.00' LT
"MB" 57+34.36, 16.67' LT
"FB" 22+00.00, 4.50' LT
"FB" 26+00.00, 4.50' LT CONSTRUCT NDOT TYPE 2A DROP INLET WITH CONCRETE APRON. INSTALL 24" X 18' RCP. REMOVE EXISTING 3 - 12' X 4' X 8' RCB AND HEADWALL.
- ⑱ "LS" 384+74.49, 64.11' LT REMOVE EXISTING 3 - 12' X 4' X 8' RCB AND HEADWALL.
- ⑲ "MB" 57+08.68 TO "MB" 57+20.42 REMOVE 24" X 25' RCP. INSTALL RCP PLUG.
- ⑳ "L" 385+80.7±, 0.3± RT INSTALL 24" X 22' RCP.
- ㉑ "L" 385+80.7±, 0.3± RT CONSTRUCT NDOT TYPE 2A DROP INLET WITH CONCRETE APRON. INSTALL 24" X 16' RCP.
- ㉒ "LN" 387+02.00, 53.00' RT CONSTRUCT NDOT TYPE 2 DROP INLET INSTALL 18" X 67' CMP DOWN DRAIN WITH END SECTION.
- ㉓ "R4" 29+13.81, 16.50' LT REMOVE EXISTING 18" X 60± RCB AND END SECTION.
- ㉔ "CA" 29+39.6±, 5.5± LT CONSTRUCT 3 - 12' X 4' X 273' RCB (SEE SHEET SD-206).
- ㉕ "MB" 51+87.97 TO "MB" 54+61.14 CONSTRUCT NDOT TYPE I MANHOLE. INSTALL 18" X 19' RCP.
- ㉖ "R2" 32+27.30, 91.58' LT CONSTRUCT NDOT TYPE 2 DROP INLET. INSTALL 18" X 56' CMP DOWN DRAIN
- ㉗ "R2" 32+25.56, 32.50' LT CONSTRUCT NDOT TYPE 2 DROP INLET. INSTALL 18" X 75' CMP DOWN DRAIN WITH END SECTION.
- ㉘ "R3" 30+75.75, 16.50' LT

- ㉙ "MB" 50+66.00, 4.00' RT CONSTRUCT MAINTENANCE ACCESS VAULT.
- ㉚ "MB" 51+51.8±, 17.3± LT REMOVE EXISTING 18" X 6± RCP AND END SECTION.
- ㉛ "SB1" 38+30.00 TO "SB1" 29+60.00 CONSTRUCT RIPRAP CHANNEL (SEE SHEETS SD-209 & SD-210).
- ㉜ "SB1" 29+60.00 TO "SB1" 26+60.00 CONSTRUCT EARTHEN CHANNEL (SEE SHEETS SD-210 & SD-211).
- ㉝ "MB" 51+27.12 TO "MB" 54+61.14 REMOVE 3-12' X 4' RCB AND RCB TRANSITION STRUCTURE WITH MANHOLES.
- ㉞ "MB" 38+55.14 TO "MB" 51+27.12 REMOVE 16' X 6.33' CONCRETE ARCH WITH MANHOLES AND ACCESS VAULT.
- ㉟ "CSD" 11+37.59, 28.00' LT TO "CSD" 13+88.53 REMOVE EXISTING MANHOLE, 60" X 255± ADS PIPE, HEADWALL AND RIPRAP.
- ㊱ "MB" 51+57.97 TO "MB" 51+87.97 CONSTRUCT 25' TO 37' TRANSITION (SEE SHEET SD-206).
- ㊲ "MB" 51+07.97 TO "MB" 51+57.97 CONSTRUCT 25' X 4' X 150' RCB (SEE SHEET SD-206).
- ㊳ "MB" 50+75.48 TO "MB" 51+07.97 CONSTRUCT 16' TO 25' TRANSITION (SEE SHEET SD-206).
- ㊴ "MB" 38+55.14 TO "MB" 50+75.48 CONSTRUCT 16' X 7' C 1220' RCB (SEE SHEET SD-206 AND SD-207).
- ㊵ "MB" 59+72.45 TO "MB" 60+53.08 CONSTRUCT EARTHEN CHANNEL (SEE SHEET SD-206).
- ㊶ "D1" 10+00.00 TO "D1" 19+61.00 CONSTRUCT EARTHEN CHANNEL (SEE SHEET SD-212).

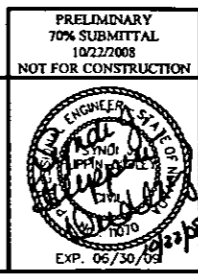
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REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
CONSTRUCTION PLAN NOTES

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



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10/22/2008
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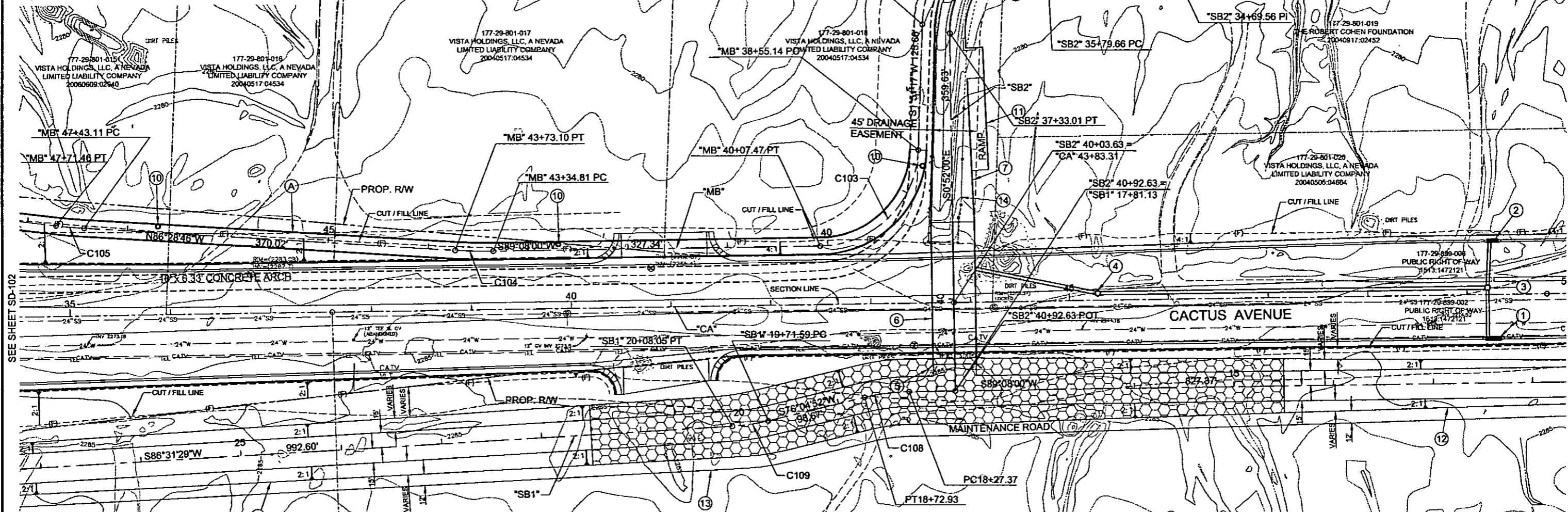
PROJECT No: 1014 DRAWN BY: JPS
DESIGNED BY: VS CHECKED BY: SJD
APPROVED BY: TDL

SCALE: _____
HORIZ: AS SHOWN
VERT: NONE
FIELD BOOK: NONE
WORK ORDER: 2008-

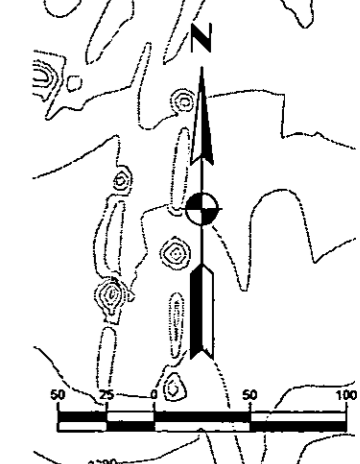
THE Louis Berger Group, INC.
500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89118
PHONE (702) 736-6633 • FAX (702) 736-0704

SHEET No
SD-102A

CURVE DATA				
CURVE NO.	RADIUS	TANGENT	LENGTH	DELTA
C102	121.00'	115.30'	184.23'	87°14'11"
C103	100.00'	95.36'	152.33'	87°16'33"
C104	500.00'	19.15'	38.28'	04°23'15"
C105	SEE SHEET SD-102			
C107	97.67'	97.60'	153.35'	89°57'30"
C108	200.00'	22.88'	45.56'	13°03'08"
C109	200.00'	18.28'	36.45'	10°26'37"

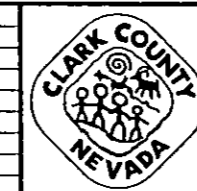


- ① "CA" 49+25.98, 44.50' RT CONSTRUCT DROP INLET TYPE "DM2" (L=15'). INSTALL 30" X 47' RCP.
- ② "CA" 49+25.98, 54.50' LT CONSTRUCT DROP INLET TYPE "DM2" (L=10'). INSTALL 30" X 43' RCP.
- ③ "CA" 49+20.45, 7.00' LT CONSTRUCT 60" TYPE III MANHOLE. INSTALL 36" X 392' RCP.
- ④ "CA" 45+29.04, 7.00' LT CONSTRUCT 60" TYPE III MANHOLE. INSTALL 36" X 125' RCP.
- ⑤ "SB2" 40+65.63 CONSTRUCT NDOT TYPE I HEADWALL (0° SKEW).
- ⑥ "SB2" 39+22.54 TO "SB2" 40+65.63 INSTALL 2 - 21' X 6' X 143' RCB (SEE SHEET SD-208).
- ⑦ "SB2" 37+33.01 TO "SB2" 39+22.54 CONSTRUCT CONCRETE CHANNEL (SEE SHEET SD-208).
- ⑧ "SB2" 35+79.66 TO "SB2" 37+33.01 CONSTRUCT CONCRETE CHANNEL WITH PIER (SEE SHEET SD-208).
- ⑨ "SB2" 34+69.56 TO "SB2" 35+79.66 CONSTRUCT ASYMETRIC CHANNEL TRANSITION (SEE SHEET SD-208).
- ⑩ "MB" 38+70.00, 6.00' RT
"MB" 42+70.00, 6.00' RT
"MB" 46+70.00, 6.00' RT CONSTRUCT RCB MANHOLE.
- ⑪ "SB2" 37+48.59 TO "SB2" 38+70.93 CONSTRUCT ACCESS RAMP.
- ⑫ "SB1" 11+05.00 TO "SB1" 14+50.00 CONSTRUCT EARTHEN CHANNEL (SEE SHEET SD-211).
- ⑬ "SB1" 14+50.00 TO "SB1" 21+50.00 CONSTRUCT ARTICULATED BLOCK CHANNEL (SEE SHEET SD-211).
- ⑭ "SB2" 34+69.56 TO "SB2" 39+43.50 REMOVE EXISTING CONCRETE CHANNEL.
- Ⓐ SEE SHEET SD-102 FOR CONSTRUCTION NOTES.



177-32-601-002
SOUTHERN HIGHLANDS DEVELOPMENT CORPORATION, A NEVADA CORPORATION, AS TO AN UNDIVIDED 50% INTEREST AND LAWRENCE D. CANARELLI, TRUSTEE OF THE CANARELLI FAMILY TRUST (D/AID SEPTEMBER 14, 1990, AS TO AN UNDIVIDED 50% INTEREST 20010213.00585

ADD OVERHEAD POWER LINE CONTACT. IT'S COSTLY. Call before you Overhead. Call 811. NEVADA POWER DEPARTMENT AND SAFETY SERVICES DEPARTMENT. 1-702-227-2929 1-800-227-2500



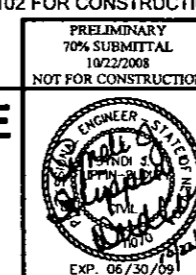
CACTUS AVENUE / I-15 INTERCHANGE

DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD

DRAINAGE PLAN

"CA" 35+00.00 to "CA" 49+50.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



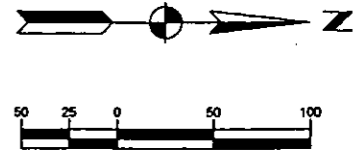
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APPROVED BY:	TDL	VERT:	NONE	FIELD BOOK:	NONE		
		WORK ORDER:	2008				

THE Louis Berger Group, INC.
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PLOT DATE: Wednesday, 7/23/2008 2:04:42 PM
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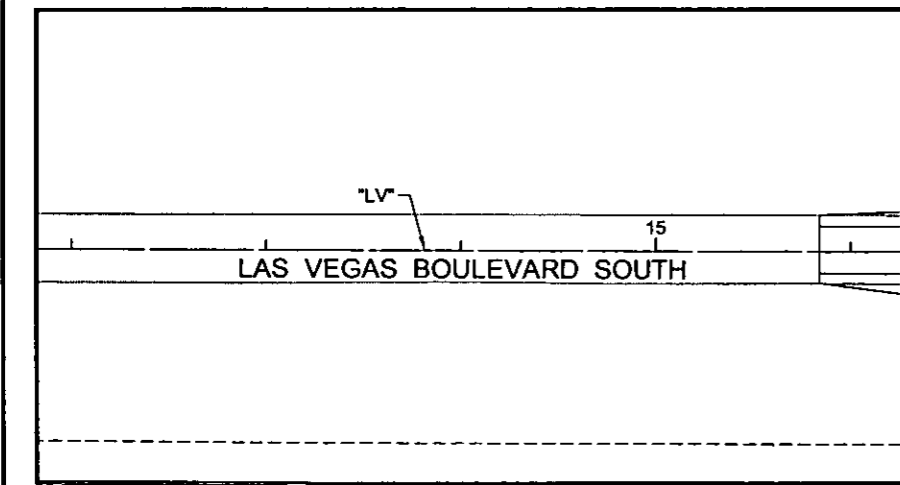
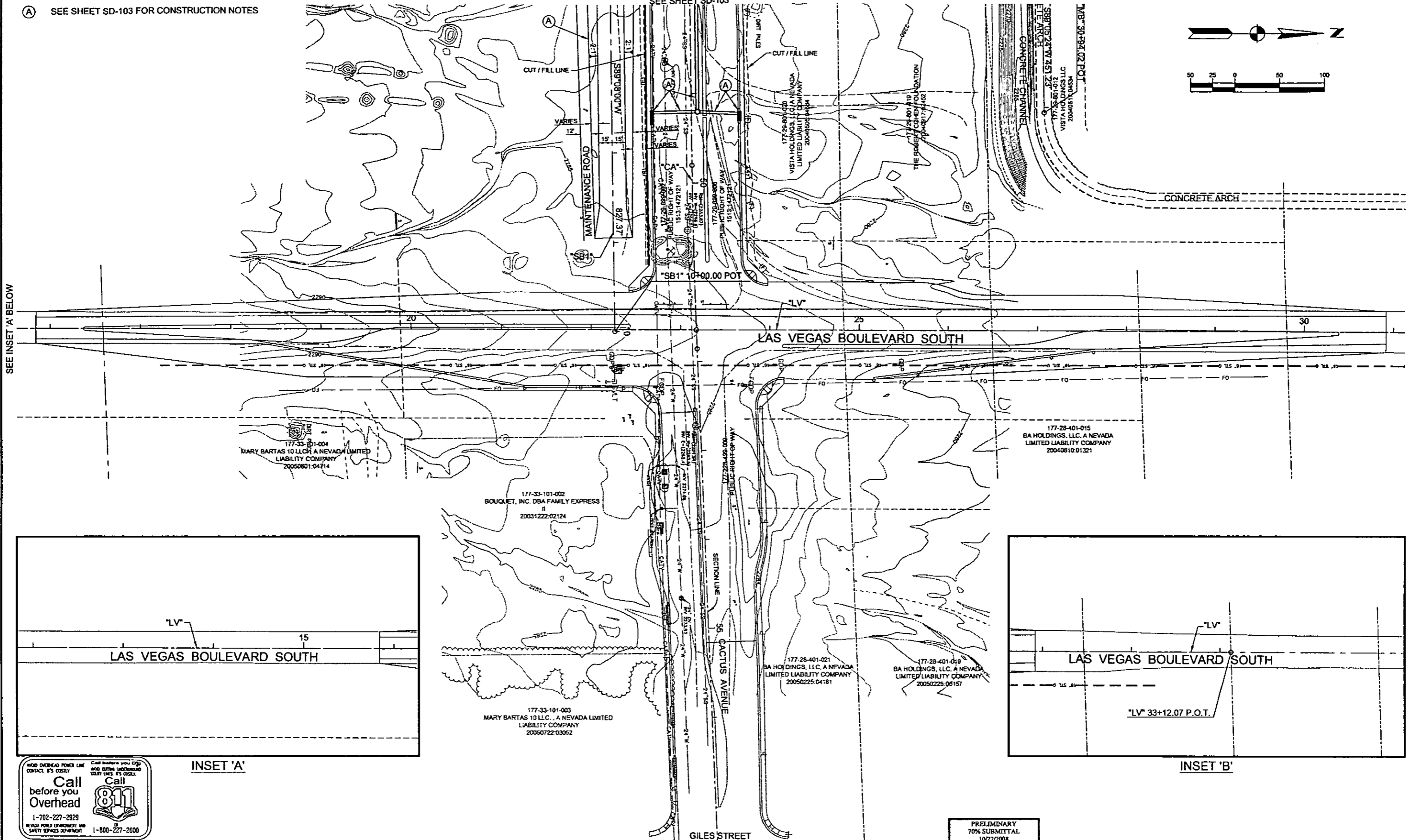
(A) SEE SHEET SD-103 FOR CONSTRUCTION NOTES

SEE SHEET SD-103

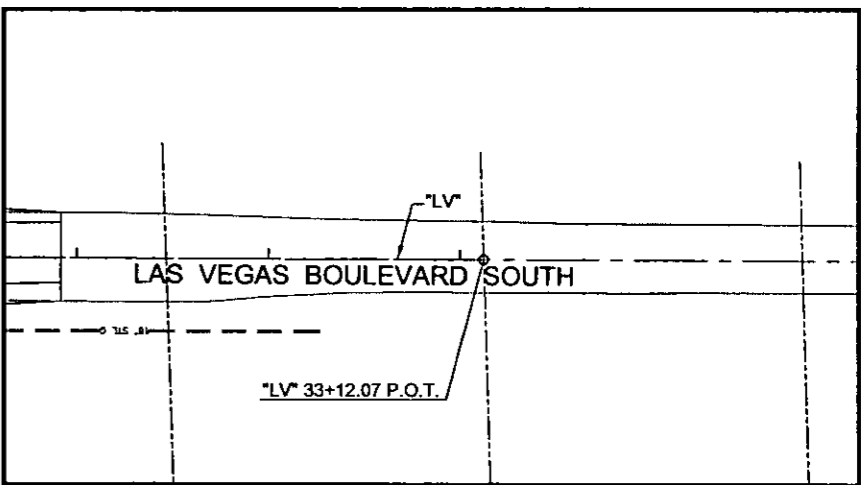


SEE INSET 'A' BELOW

SEE INSET 'B' BELOW



INSET 'A'



INSET 'B'

Call before you Overhead
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 NEVADA POWER ENVIRONMENT AND SAFETY SERVICES DEPARTMENT
 1-800-227-2600



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
DRAINAGE PLAN
 "CA" 49+50.00 to "CA" 57+00.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

PROJECT No: 1014 DRAWN BY: JPS
 DESIGNED BY: VS CHECKED BY: SJD
 APPROVED BY: TDL

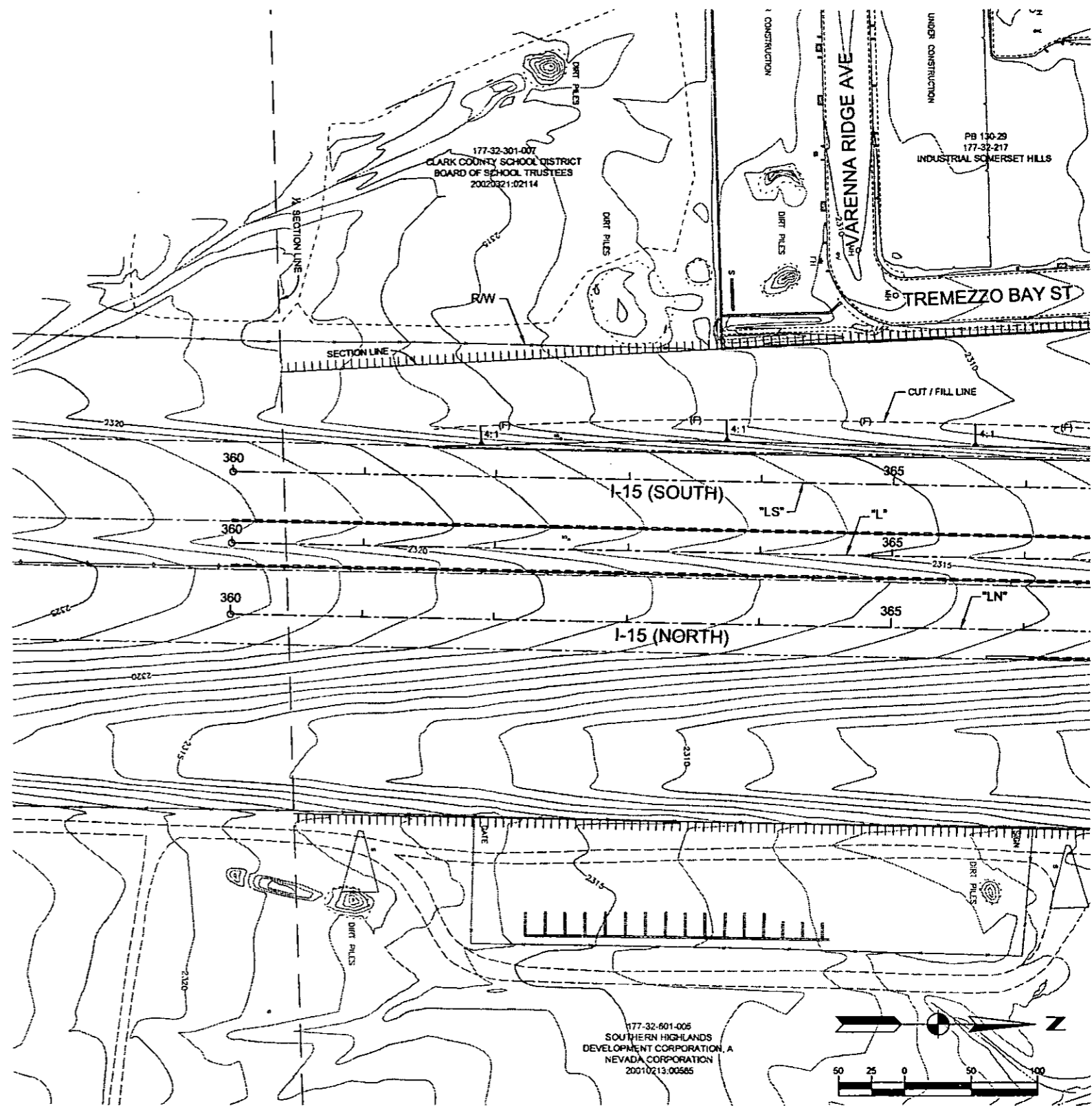
THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 LAS VEGAS, NEVADA 89119
 PHONE (702) 736-0832 * FAX (702) 736-0704

SCALE	SHEET No
HORIZ: AS SHOWN	SD-104
VERT: NONE	
FIELD BOOK: NONE	
WORK ORDER: 2008-	

REV. NO.	DATE	DESCRIPTION	APPROVED

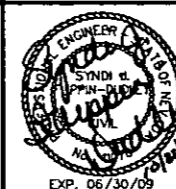
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 REFERENCE FILES:

NOTE:
NO DRAINAGE FACILITIES PROPOSED ON THIS SHEET



177-32-601-005
SOUTHERN HIGHLANDS
DEVELOPMENT CORPORATION, A
NEVADA CORPORATION
20010213.00565

PRELIMINARY
70% SUBMITTAL
10/22/2008
NOT FOR CONSTRUCTION

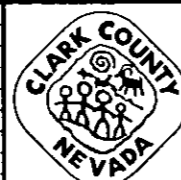


PROJECT No: 1014 DRAWN BY: JPS
DESIGNED BY: VS CHECKED BY: SJD
APPROVED BY: TDL
THE Louis Berger Group, INC.
500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119
PHONE (702) 736-8532 • FAX (702) 736-0704

SCALE
HORIZ: AS SHOWN
VERT: NONE
FIELD BOOK: NONE
WORK ORDER: 2008-

SHEET No
SD-105

CACTUS AVENUE / I-15 INTERCHANGE
DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
DRAINAGE PLAN
"L" 360+00.00 to "L" 366+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



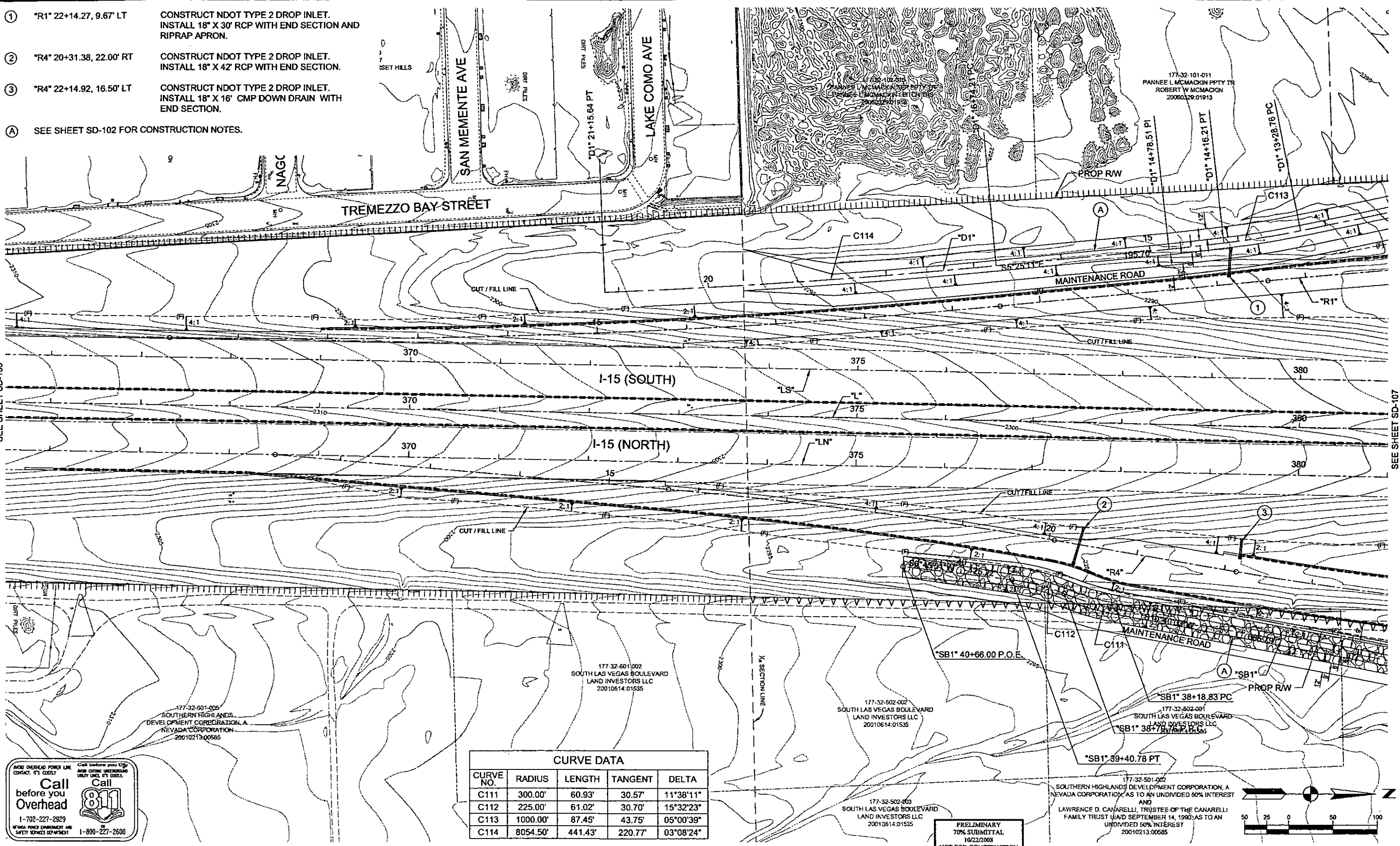
REV. NO.	DATE	DESCRIPTION	APPROVED

PLOT DATE: Wednesday, 10/22/2008 2:16:15 PM
 FILE NAME: P:\CCTUS\811\CACTUS\PLANS\PHASE 7\SD-SHEET\DRAINAGE\114\PHASE 1\SD-105.DWG
 REFERENCE FILES:

SEE SHEET SD-106

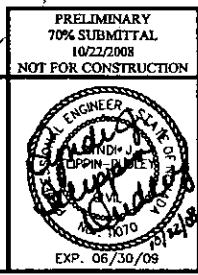
CACTUS AVENUE / I-15 INTERCHANGE

- ① "R1" 22+14.27, 9.67' LT CONSTRUCT NDOT TYPE 2 DROP INLET. INSTALL 18" X 30' RCP WITH END SECTION AND RIPRAP APRON.
- ② "R4" 20+31.38, 22.00' RT CONSTRUCT NDOT TYPE 2 DROP INLET. INSTALL 18" X 42' RCP WITH END SECTION.
- ③ "R4" 22+14.92, 16.50' LT CONSTRUCT NDOT TYPE 2 DROP INLET. INSTALL 18" X 16" CMP DOWN DRAIN WITH END SECTION.
- Ⓐ SEE SHEET SD-102 FOR CONSTRUCTION NOTES.



CURVE DATA

CURVE NO.	RADIUS	LENGTH	TANGENT	DELTA
C111	300.00'	60.93'	30.57'	11°38'11"
C112	225.00'	61.02'	30.70'	15°32'23"
C113	1000.00'	87.45'	43.75'	05°00'39"
C114	8054.50'	441.43'	220.77'	03°08'24"



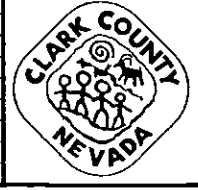
THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119
 PHONE (702) 736-0632 • FAX (702) 736-0704

PROJECT No: 1014 DRAWN BY: JPS
 DESIGNED BY: JSD CHECKED BY: SJD
 APPROVED BY: TDL

SCALE: HORIZ: AS SHOWN VERT: NONE FIELD BOOK NONE WORK ORDER 2008

SHEET No: **SD-106**

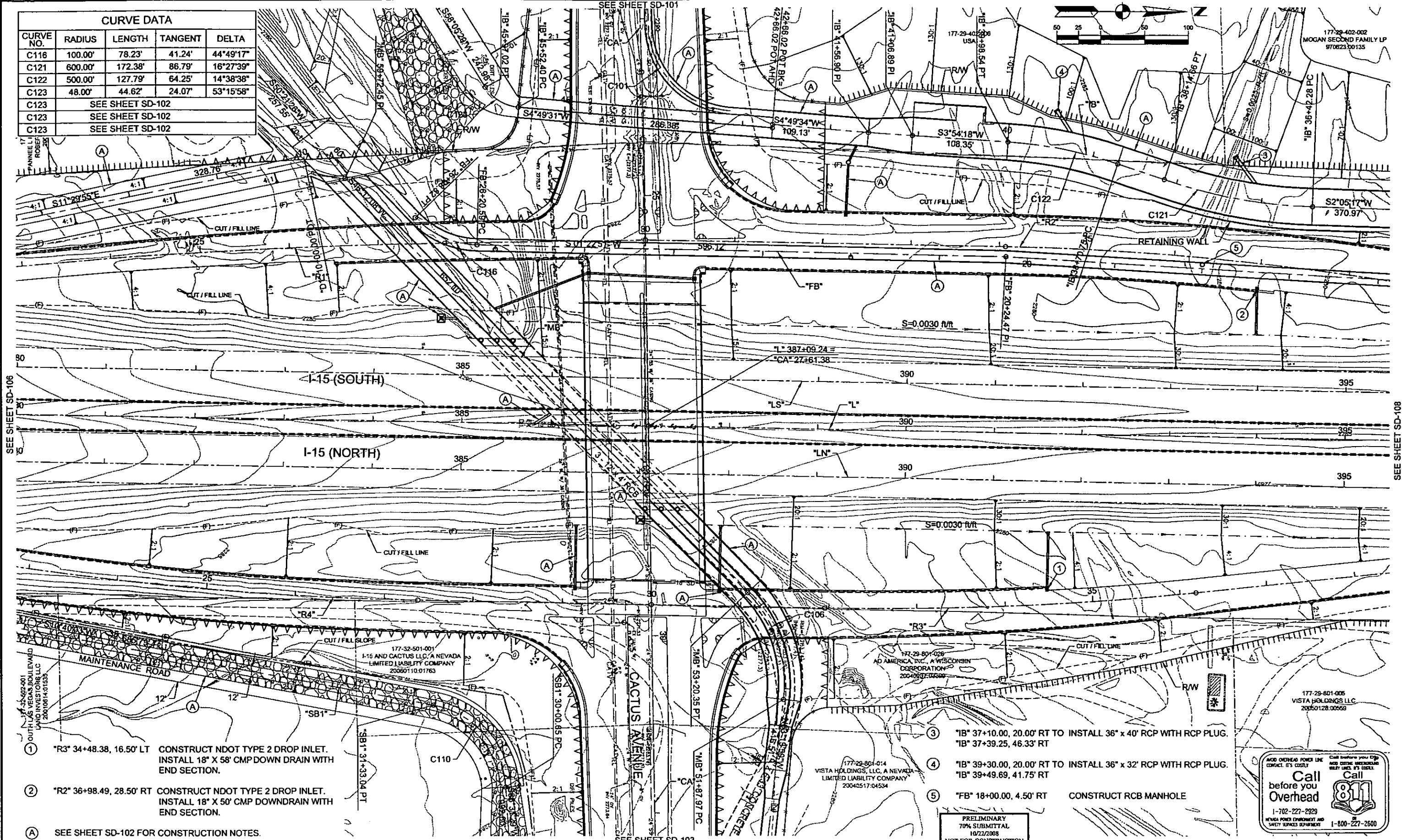
CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
DRAINAGE PLAN
 "L"366+00.00 to "L" 380+50.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



REV. NO.	DATE	DESCRIPTION	APPROVED

PLOT DATE: Wednesday, 7/28/2008 2:13:30 PM
 FILE NAME: P:\CPC\1014\CACTUS\1014-1\PHASE 3\SD106.DWG
 REFERENCE FILES:

CURVE DATA				
CURVE NO.	RADIUS	LENGTH	TANGENT	DELTA
C116	100.00'	78.23'	41.24'	44°49'17"
C121	600.00'	172.38'	86.79'	16°27'39"
C122	500.00'	127.79'	64.25'	14°38'38"
C123	48.00'	44.62'	24.07'	53°15'58"
C123	SEE SHEET SD-102			
C123	SEE SHEET SD-102			
C123	SEE SHEET SD-102			



- ① "R3" 34+48.38, 16.50' LT CONSTRUCT NDOT TYPE 2 DROP INLET. INSTALL 18" X 58" CMP DOWN DRAIN WITH END SECTION.
- ② "R2" 36+98.49, 28.50' RT CONSTRUCT NDOT TYPE 2 DROP INLET. INSTALL 18" X 50" CMP DOWNDRAIN WITH END SECTION.
- ⑤ "FB" 18+00.00, 4.50' RT CONSTRUCT RCB MANHOLE
- (A) SEE SHEET SD-102 FOR CONSTRUCTION NOTES.

- ③ "B" 37+10.00, 20.00' RT TO INSTALL 36" x 40' RCP WITH RCP PLUG. "B" 37+39.25, 46.33' RT
- ④ "B" 39+30.00, 20.00' RT TO INSTALL 36" x 32' RCP WITH RCP PLUG. "B" 39+49.69, 41.75' RT

Call before you Overhead

1-702-227-2929

NEVADA POWER ENVIRONMENT AND SAFETY SERVICES DEPARTMENT

1-800-227-2500

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10/22/2008
NOT FOR CONSTRUCTION



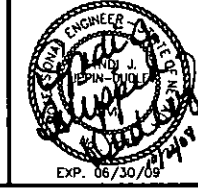
CACTUS AVENUE / I-15 INTERCHANGE

DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD

DRAINAGE PLAN

"L" 380+50.00 to "L" 395+00.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

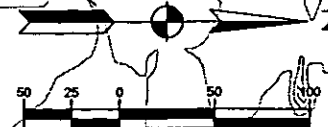
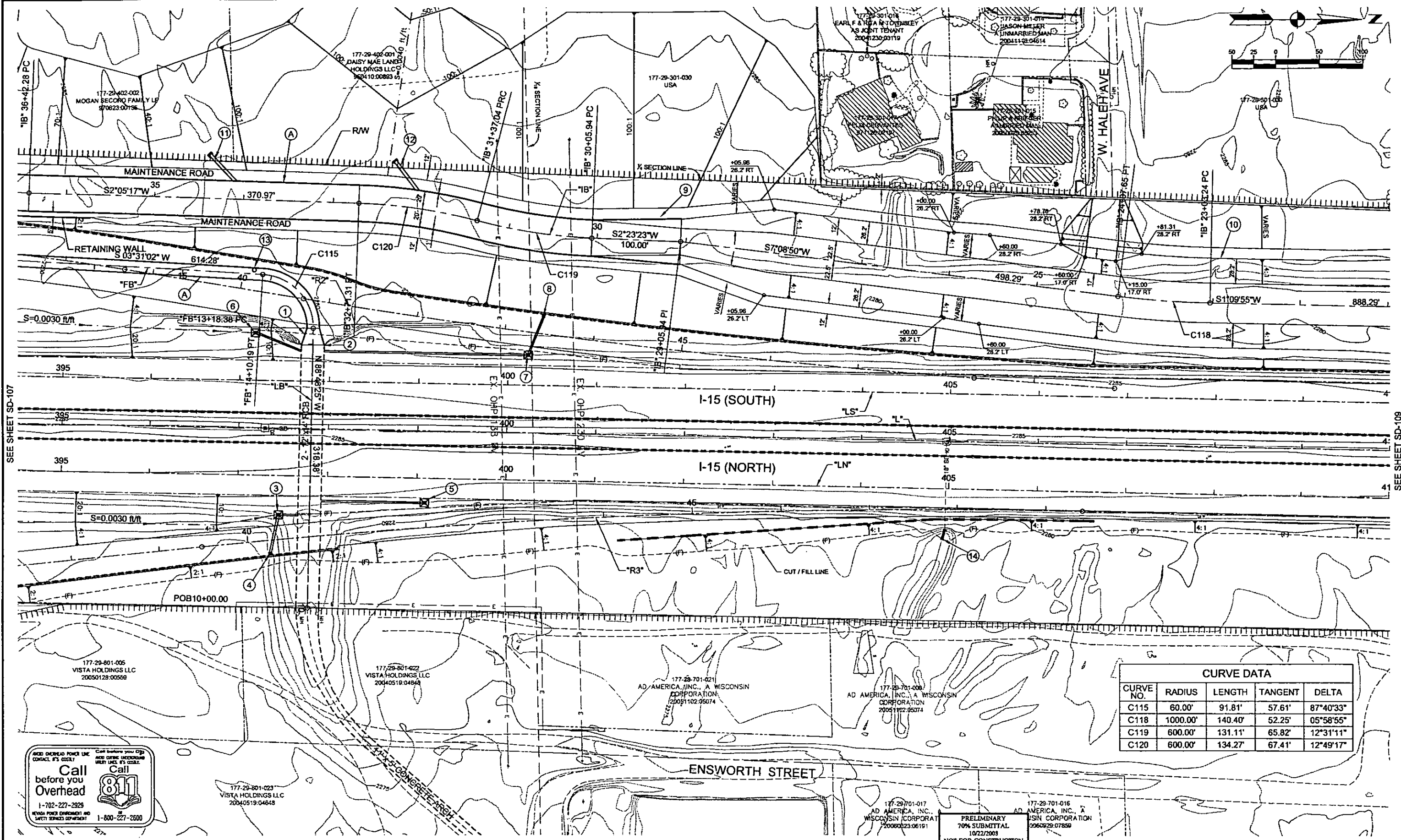


PROJECT No: 1014 DRAWN BY: JPS
DESIGNED BY: VS CHECKED BY: SJD
APPROVED BY: TDL

THE Louis Berger Group, INC.
500 AMIGO COURT, SUITE 100 LAS VEGAS, NEVADA 89119
PHONE (702) 736-8632 FAX (702) 736-0704

SCALE	HORIZ. AS SHOWN	VERT. NONE	FIELD BOOK NONE	WORK ORDER 2008-	SHEET No SD-107
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PLOT DATE: Wednesday, 10/22/2008 2:19:59 PM
FILE NAME: P:\CIP\DWG\CACTUS\PLANS\PHASE 2\SHEETDRDRAINAGE\114\PHASE 2-007.DWG
REFERENCE FILES:



CURVE DATA				
CURVE NO.	RADIUS	LENGTH	TANGENT	DELTA
C115	60.00'	91.81'	57.61'	87°40'33"
C118	1000.00'	140.40'	52.25'	05°58'55"
C119	600.00'	131.11'	65.82'	12°31'11"
C120	600.00'	134.27'	67.41'	12°49'17"



177-29-801-023
VISTA HOLDINGS LLC
20040519-04648

177-29-801-022
VISTA HOLDINGS LLC
20040519-04648

177-29-701-021
AD AMERICA, INC., A WISCONSIN CORPORATION
20051102-05074

177-29-701-008
AD AMERICA, INC., A WISCONSIN CORPORATION
20051102-05074

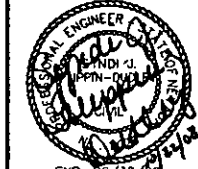
177-29-701-017
AD AMERICA, INC., A WISCONSIN CORPORATION
20060929-07859

177-29-701-016
AD AMERICA, INC., A WISCONSIN CORPORATION
20060929-07859

PRELIMINARY
70% SUBMITTAL
10/22/2008
NOT FOR CONSTRUCTION



CACTUS AVENUE / I-15 INTERCHANGE
DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
DRAINAGE PLAN
"L" 395+00.00 to "L" 409+50.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 1014 DRAWN BY: JPS
DESIGNED BY: VS CHECKED BY: SJD
APPROVED BY: TDL
THE Louis Berger Group, Inc.
500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119
PHONE (702) 736-8822 • FAX (702) 736-0704

SCALE	HORIZ: AS SHOWN	SHEET No
VERT: NONE	FIELD BOOK: NONE	SD-108
WORK ORDER: 2008-		

PLOT DATE: Wednesday, 10/22/2008 2:29:09 PM
 FILE NAME: P:\CCTUS\PHASE 3\SHEETSDRAINAGE\114\PHASE 3.DWG
 REFERENCE FILES:

SEE SHEET SD-107

SEE SHEET SD-109

REV. NO.	DATE	DESCRIPTION	APPROVED

- ① *FB* 12+99.22 TO *FB* 13+18.38 CONSTRUCT 24.7' TO 13' RCB TRANSITION (SEE SHEET SD-205).
- ② *FB* 12+99.22 REMOVE EXISTING HEADWALL
- ③ *R3* 40+37.00, 28.00' LT CONSTRUCT NDOT TYPE 2A DROP INLET WITH CONCRETE APRON. INSTALL 18" X 20' RCP.
- ④ *R3* 40+24.19, 15.00' RT CONSTRUCT NDOT TYPE 2 DROP INLET. INSTALL 18" X 44' RCP.
- ⑤ *R3* 42+00.00, 28.00' LT CONSTRUCT NDOT TYPE 2A DROP INLET WITH CONCRETE APRON. INSTALL 18" X 117' RCP.
- ⑥ *R2* 40+25.00, 47.00' RT CONSTRUCT NDOT TYPE 2A DROP INLET WITH CONCRETE APRON. INSTALL 18" X 50' RCP.
- ⑦ *R2* 43+29.95, 26.00' RT CONSTRUCT NDOT TYPE 2A DROP INLET WITH CONCRETE APRON. INSTALL 18" X 227' RCP.
- ⑧ *R2* 43+40.99, 20.50' LT CONSTRUCT NDOT TYPE 2 DROP INLET. INSTALL 18" X 47' RCP.
- ⑨ *IB* 30+05.94 TO *IB* 29+05.94 CONSTRUCT SYMMETRICAL CHANNEL TRANSITION (SEE SHEET SD-202).
- ⑩ *IB* 21+00.00 TO *IB* 29+06.80 CONSTRUCT EARTHEN CHANNEL (SEE SHEETS SD-202 AND SD-203).
- ⑪ *IB* 34+10.00, 20.00' RT TO *IB* 34+39.81, 49.81' RT INSTALL 36" x 44' RCP WITH RCP PLUG.
- ⑫ *IB* 32+10.00, 20.00' RT TO *IB* 32+35.16, 50.50' RT INSTALL 36" x 44' RCP WITH RCP PLUG.
- ⑬ *FB* 14+20.00, 4.50' LT CONSTRUCT RCB MANHOLE.
- ⑭ *R3* 404+96±, 46± RT CONSTRUCT CONCRETE COLLAR. INSTALL 18" X 8' RCP WITH END SECTION
- Ⓐ SEE SHEET SD-102 FOR CONSTRUCTION NOTES.

PLOT DATE: Wednesday, 10/28/2008 2:21:23 PM
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 REFERENCE FILES:

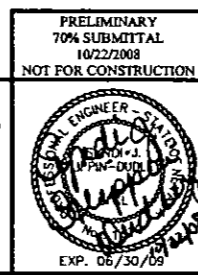
REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE

DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
CONSTRUCTION PLAN NOTES

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



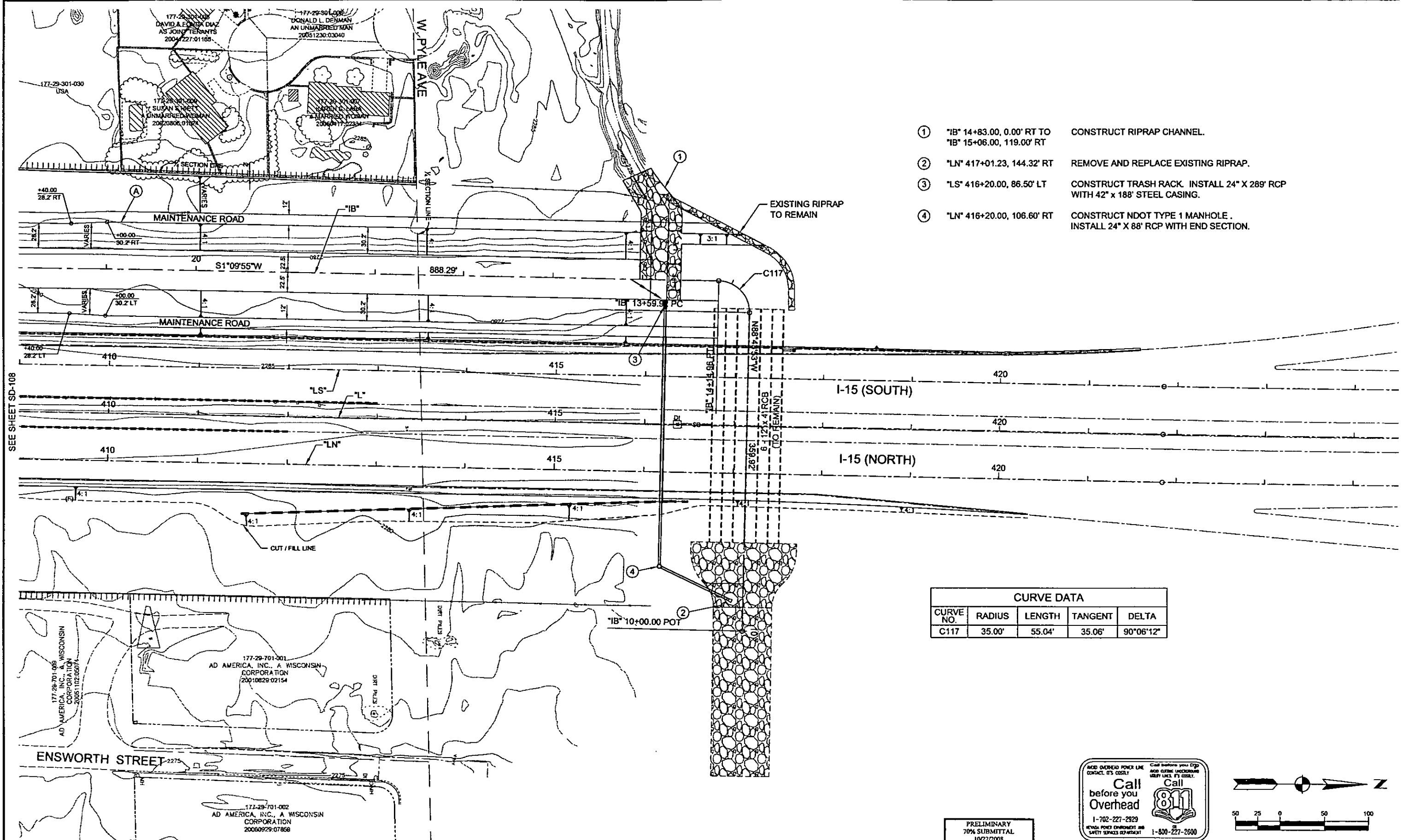
PROJECT No: 1014 DRAWN BY: JPS
 DESIGNED BY: VS CHECKED BY: SJD
 APPROVED BY: TDL

THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89118
 PHONE (702) 736-8832 • FAX (702) 736-0704

SCALE	
HORIZ	AS SHOWN
VERT	NONE
FIELD BOOK	NONE
WORK ORDER	2008

SHEET No
SD-108A

CACTUS AVENUE / I-15 INTERCHANGE

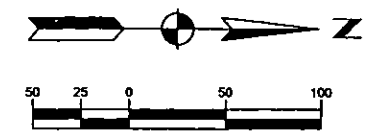


- ① "IB" 14+83.00, 0.00' RT TO "IB" 15+06.00, 119.00' RT CONSTRUCT RIPRAP CHANNEL.
- ② "LN" 417+01.23, 144.32' RT REMOVE AND REPLACE EXISTING RIPRAP.
- ③ "LS" 416+20.00, 86.50' LT CONSTRUCT TRASH RACK. INSTALL 24" X 289" RCP WITH 42" X 188" STEEL CASING.
- ④ "LN" 416+20.00, 106.60' RT CONSTRUCT NDOT TYPE 1 MANHOLE. INSTALL 24" X 88" RCP WITH END SECTION.

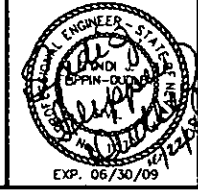
CURVE DATA				
CURVE NO.	RADIUS	LENGTH	TANGENT	DELTA
C117	35.00'	55.04'	35.06'	90°06'12"

AVOID OVERHEAD POWER LINE CONTACT. IT'S COSTLY!
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IT'S YOUR POWER ENVIRONMENT AND SAFETY SERVICES WE PROVIDE!

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Call 811
 1-800-227-2600



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 10/22/2008
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PROJECT No: 1014 DRAWN BY: JPS
 DESIGNED BY: VS CHECKED BY: SJJ
 APPROVED BY: TDL

THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 *LAS VEGAS, NEVADA *89119
 PHONE (702) 736-0832 *FAX (702) 736-0704

SCALE	SHEET No
HORIZ: AS SHOWN	SD-109
VERT: NONE	
FIELD BOOK NONE	
WORK ORDER 2008-	



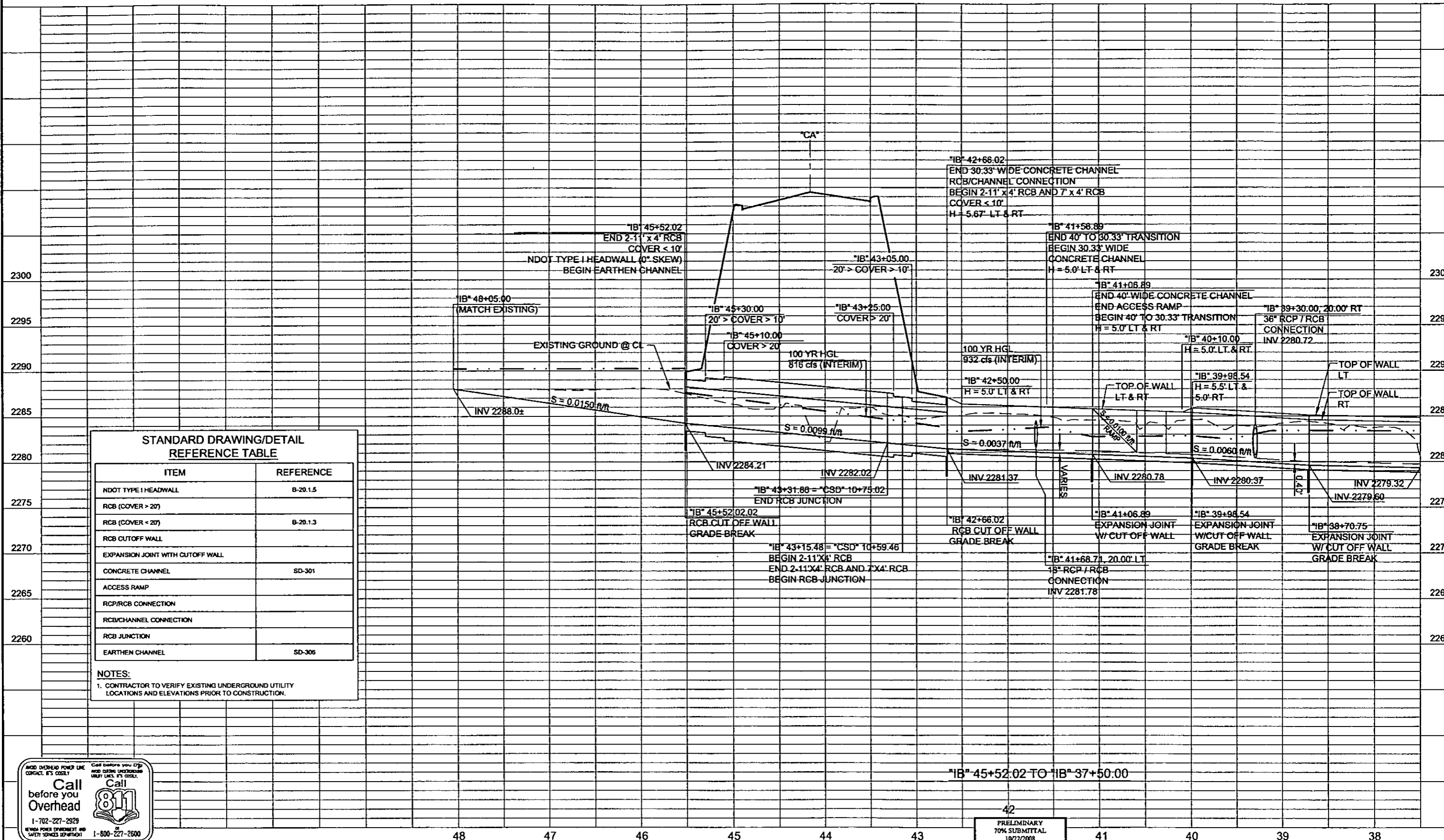
CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
DRAINAGE PLAN
 "L" 409+50.00 to "L" 424+00.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

REV. NO.	DATE	DESCRIPTION	APPROVED

PLOT DATE: Wednesday, July 23, 2008 2:22:19 PM
 FILE NAME: P:\CCTUS\101-CACTUS\PLANS\PHASE 2\SHEETSDRAINAGE\1014\PHASE 2\SD109.DWG
 REFERENCE FILES:

SEE SHEET SD-108

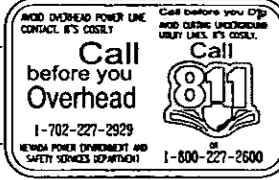
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 REFERENCE FILES:



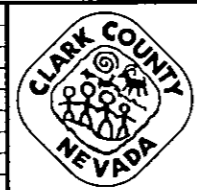
STANDARD DRAWING/DETAIL REFERENCE TABLE

ITEM	REFERENCE
NDOT TYPE I HEADWALL	B-20.1.5
RCB (COVER > 20')	
RCB (COVER < 20')	B-20.1.3
RCB CUTOFF WALL	
EXPANSION JOINT WITH CUTOFF WALL	
CONCRETE CHANNEL	SD-301
ACCESS RAMP	
RCP/RCB CONNECTION	
RCB/CHANNEL CONNECTION	
RCB JUNCTION	
EARTHEN CHANNEL	SD-305

NOTES:
 1. CONTRACTOR TO VERIFY EXISTING UNDERGROUND UTILITY LOCATIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.

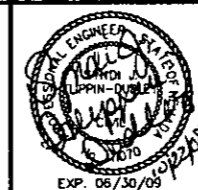


42
 PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
DRAINAGE PROFILES

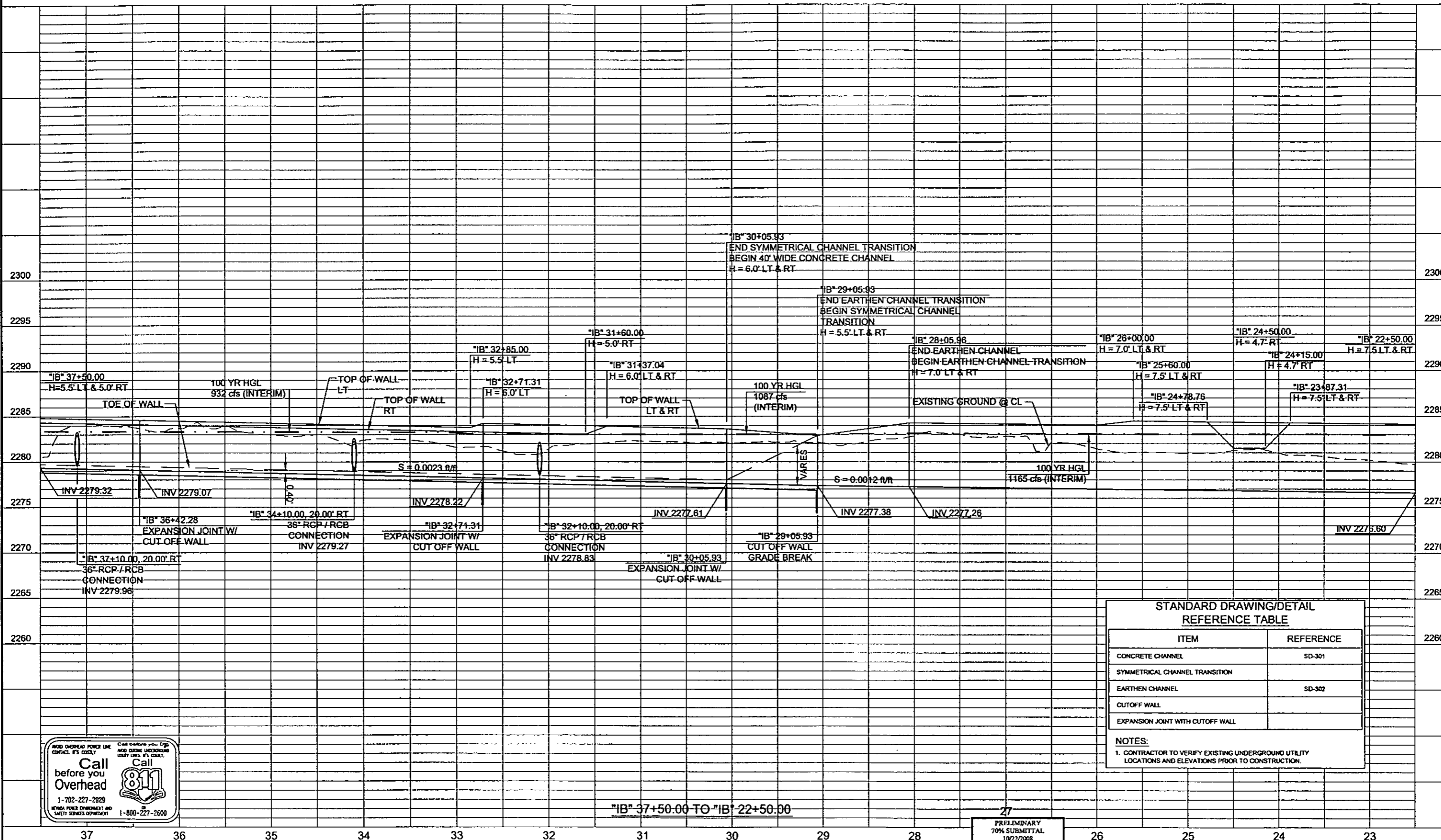
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 1014 DRAWN BY: JPS
 DESIGNED BY: JSD CHECKED BY: SJD
 APPROVED BY: TDL
THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 LAS VEGAS, NEVADA 89119
 PHONE (702) 736-6632 * FAX (702) 736-0704

SCALE: AS SHOWN
 SHEET No: **SD-201**
 HORIZ: AS SHOWN
 VERT: NONE
 FIELD BOOK: NONE
 WORK ORDER: 2008

REV. NO.	DATE	DESCRIPTION	APPROVED



STANDARD DRAWING/DETAIL REFERENCE TABLE

ITEM	REFERENCE
CONCRETE CHANNEL	SD-301
SYMMETRICAL CHANNEL TRANSITION	
EARTHEN CHANNEL	SD-302
CUTOFF WALL	
EXPANSION JOINT WITH CUTOFF WALL	

NOTES:
1. CONTRACTOR TO VERIFY EXISTING UNDERGROUND UTILITY LOCATIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.



"IB" 37+50.00 TO "IB" 22+50.00

PLOT DATE: Wednesday, 2/24/2009 1:28:17 PM
 FILE NAME: P:\CIP\DWG\CACTUS\PLAN\PHASE 2\SHEET\DRAINAGE\PROFILES\1914\PHASE 2\SD202.DWG
 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED

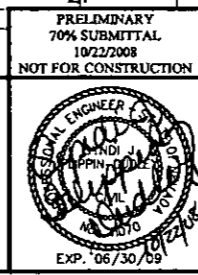


CACTUS AVENUE / I-15 INTERCHANGE

DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD

DRAINAGE PROFILES

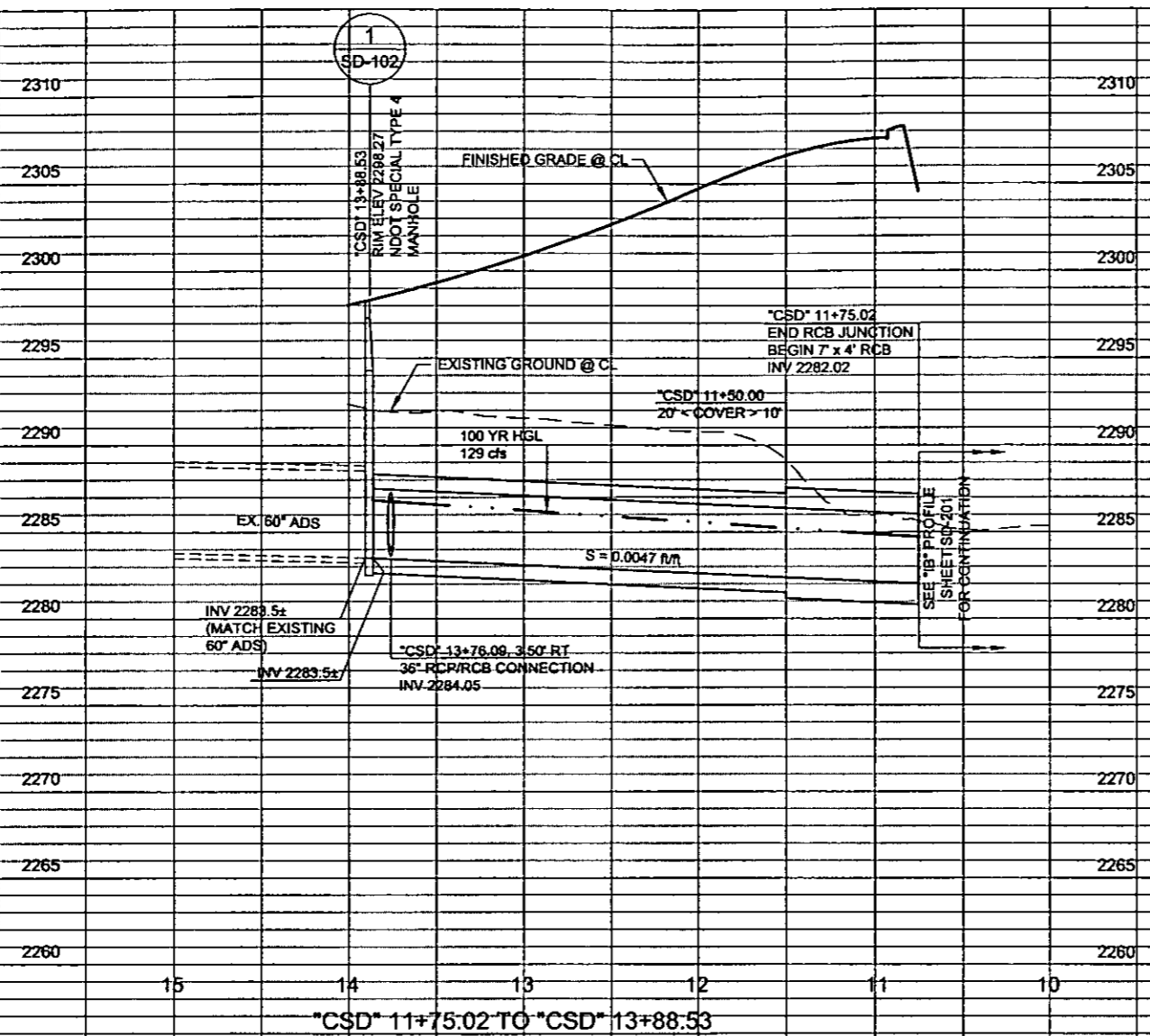
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 1014 DRAWN BY: JPS
 DESIGNED BY: JSD CHECKED BY: SJD
 APPROVED BY: TDL

THE Louis Berger Group, Inc.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119
 PHONE (702) 736-6532 • FAX (702) 736-0704

SCALE	SHEET No
HORIZ: AS SHOWN	SD-202
VERT: NONE	
FIELD BOOK: NONE	
WORK ORDER: 2008	

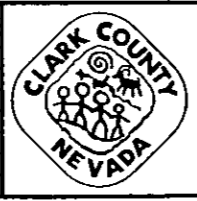


STANDARD DRAWING/DETAIL REFERENCE TABLE	
ITEM	REFERENCE
NDOT SPECIAL TYPE 4 MANHOLE	
RCB (COVER > 20')	
RCB (COVER < 20')	B-20.1.3
RCP/RCB CONNECTION	
RCB JUNCTION	

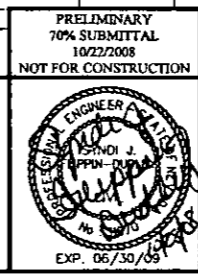
NOTES:
 1. CONTRACTOR TO VERIFY EXISTING UNDERGROUND UTILITY LOCATIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.

PLOT DATE: Wednesday, 10/28/2008 1:28:32 PM
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 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
DRAINAGE PROFILES
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

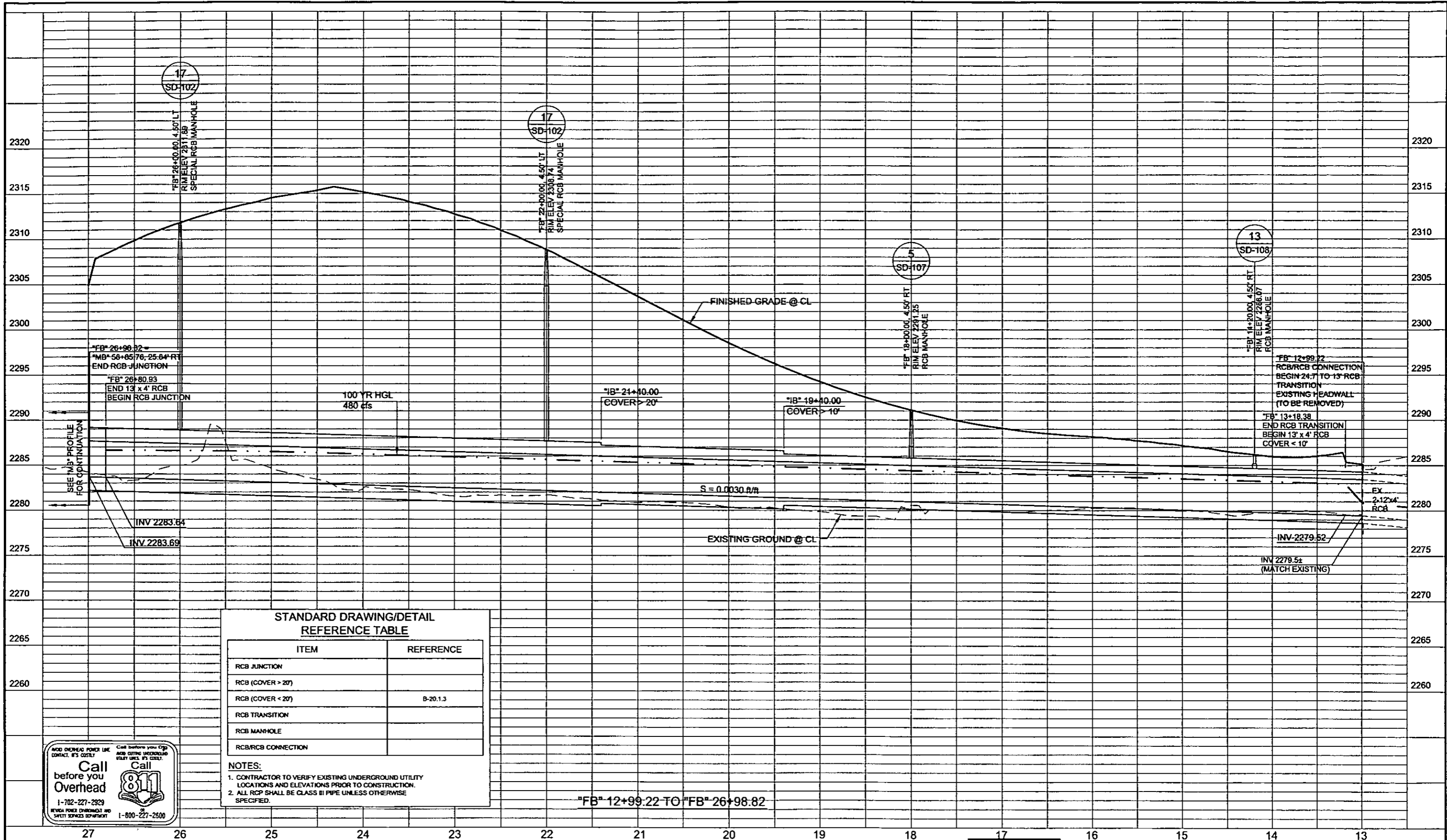
PROJECT No: 1014 DRAWN BY: JPS
 DESIGNED BY: JSD CHECKED BY: SJD
 APPROVED BY: TDL

THE Louis Berger Group, Inc.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119
 PHONE (702) 736-8832 • FAX (702) 736-0704

SCALE: _____
 HORIZ: AS SHOWN
 VERT: NONE
 FIELD BOOK: NONE
 WORK ORDER: 2008-

SHEET No
SD-204

PLOT DATE: Wednesday, 10/21/2003 1:25:08 PM
 FILE NAME: P:\CADD\811\CACTUS\PLANS\PHASE 2\SHEET\800\NAVE\PROFILES\1714\PHASE 2\SD205.DWG
 REFERENCE FILES:



**STANDARD DRAWING/DETAIL
REFERENCE TABLE**

ITEM	REFERENCE
RCB JUNCTION	
RCB (COVER > 20')	
RCB (COVER < 20')	B-20.1.3
RCB TRANSITION	
RCB MANHOLE	
RCB/RCB CONNECTION	

NOTES:

- CONTRACTOR TO VERIFY EXISTING UNDERGROUND UTILITY LOCATIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.
- ALL RCP SHALL BE CLASS III PIPE UNLESS OTHERWISE SPECIFIED.

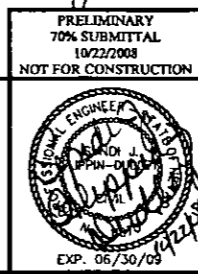


"FB" 12+99.22 TO "FB" 26+98.82

REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
DRAINAGE PROFILES
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



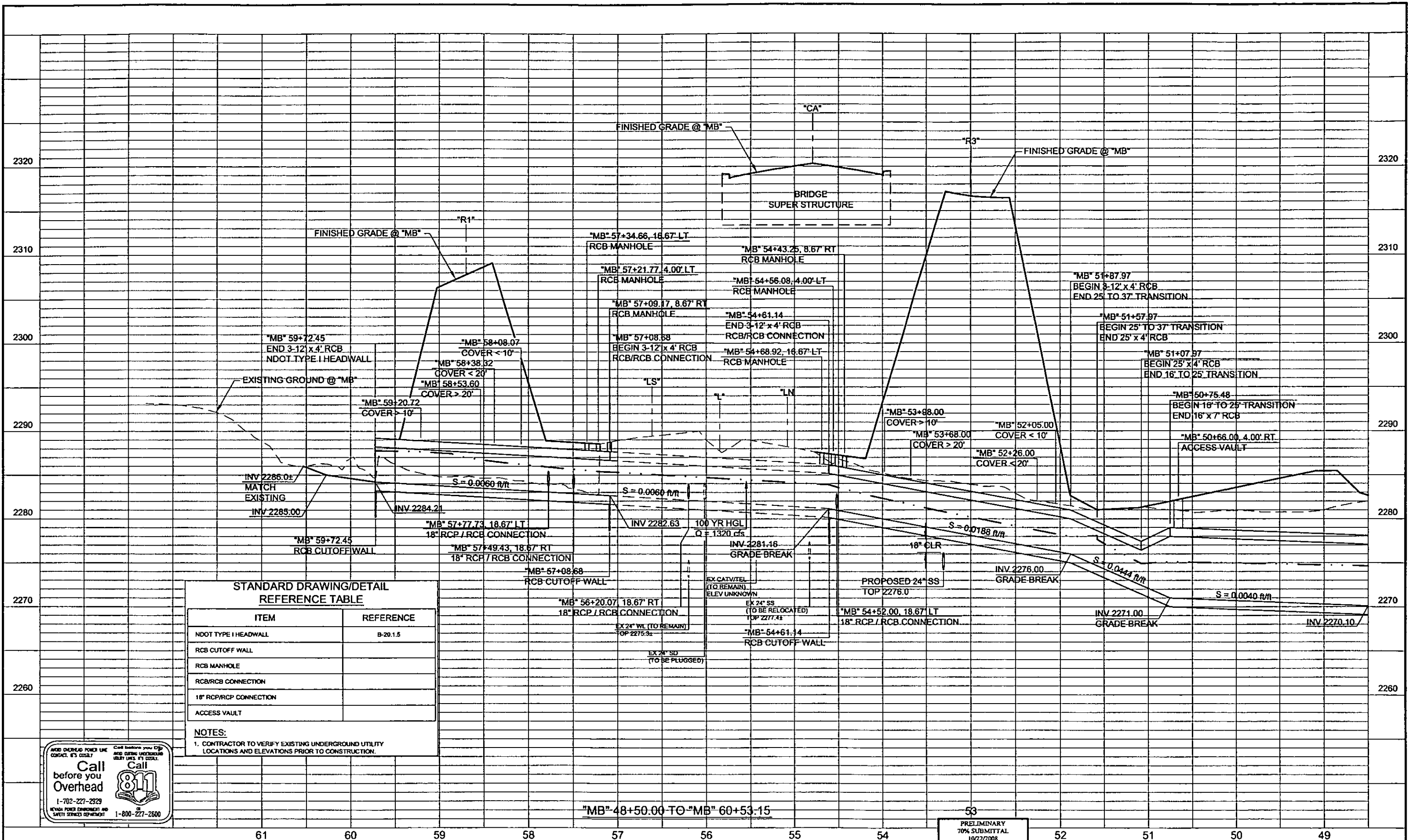
PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

PROJECT No: 1014 DRAWN BY: JPS
 DESIGNED BY: JSD CHECKED BY: SJD
 APPROVED BY: TDL

THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119
 PHONE (702) 736-0832 • FAX (702) 736-0704

SCALE	HORIZ: AS SHOWN	SD-205
VERT: NONE	FIELD BOOK NONE	
WORK ORDER	2008-	
SHEET No		

PLOT DATE: Wednesday, 7/28/2009 1:30:41 PM
 FILE NAME: P:\CCTUS\101-CACTUS\PHASE 2\DRAINAGE\PROFILES\114-PHASE 2-SD1.DWG
 REFERENCE FILE:



**STANDARD DRAWING/DETAIL
REFERENCE TABLE**

ITEM	REFERENCE
NDOT TYPE I HEADWALL	B-20.1.5
RCB CUTOFF WALL	
RCB MANHOLE	
RCB/RCB CONNECTION	
18" RCP/RCP CONNECTION	
ACCESS VAULT	

NOTES:
 1. CONTRACTOR TO VERIFY EXISTING UNDERGROUND UTILITY LOCATIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.



"MB" 48+50.00 TO "MB" 60+53.15

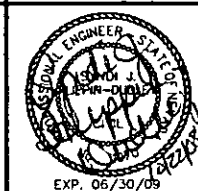
53
 PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION



CACTUS AVENUE / I-15 INTERCHANGE

DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
 DRAINAGE PROFILES

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

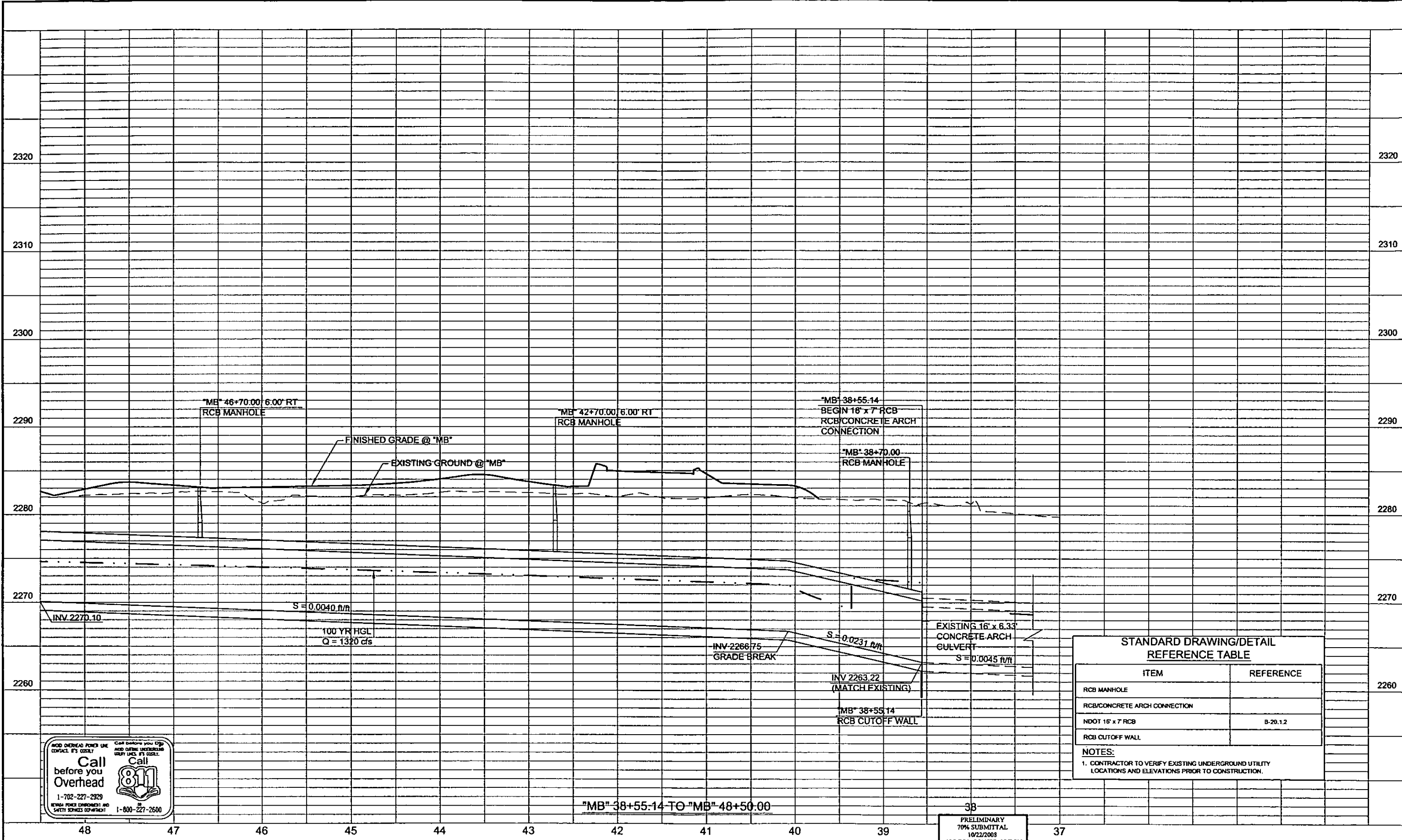


PROJECT No: 1014 DRAWN BY: JPS
 DESIGNED BY: FIR CHECKED BY: SJD
 APPROVED BY: TDL
THE Louis Berger Group, Inc.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119
 PHONE (702) 736-8532 • FAX (702) 736-0704

SCALE: SHEET No
 HORIZ: AS SHOWN **SD-206**
 VERT: NONE
 FIELD BOOK: NONE
 WORK ORDER: 2008-

REV. NO.	DATE	DESCRIPTION	APPROVED

PLOT DATE: Wednesday, 7/26/2006 1:35:20 PM
 FILE NAME: P:\CADD\1011\CACTUS\PLAN\PHASE 2\DRAINAGE\PROFILES\11-14-PHASE 2-3000.DWG
 REFERENCE FILES:



STANDARD DRAWING/DETAIL REFERENCE TABLE	
ITEM	REFERENCE
RCB MANHOLE	
RCB/CONCRETE ARCH CONNECTION	
NDOT 16' x 7' RCB	B-20.1.2
RCB CUTOFF WALL	

NOTES:
 1. CONTRACTOR TO VERIFY EXISTING UNDERGROUND UTILITY LOCATIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.



"MB" 38+55.14 TO "MB" 48+50.00

PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

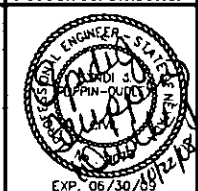


CACTUS AVENUE / I-15 INTERCHANGE

DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD

DRAINAGE PROFILES

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

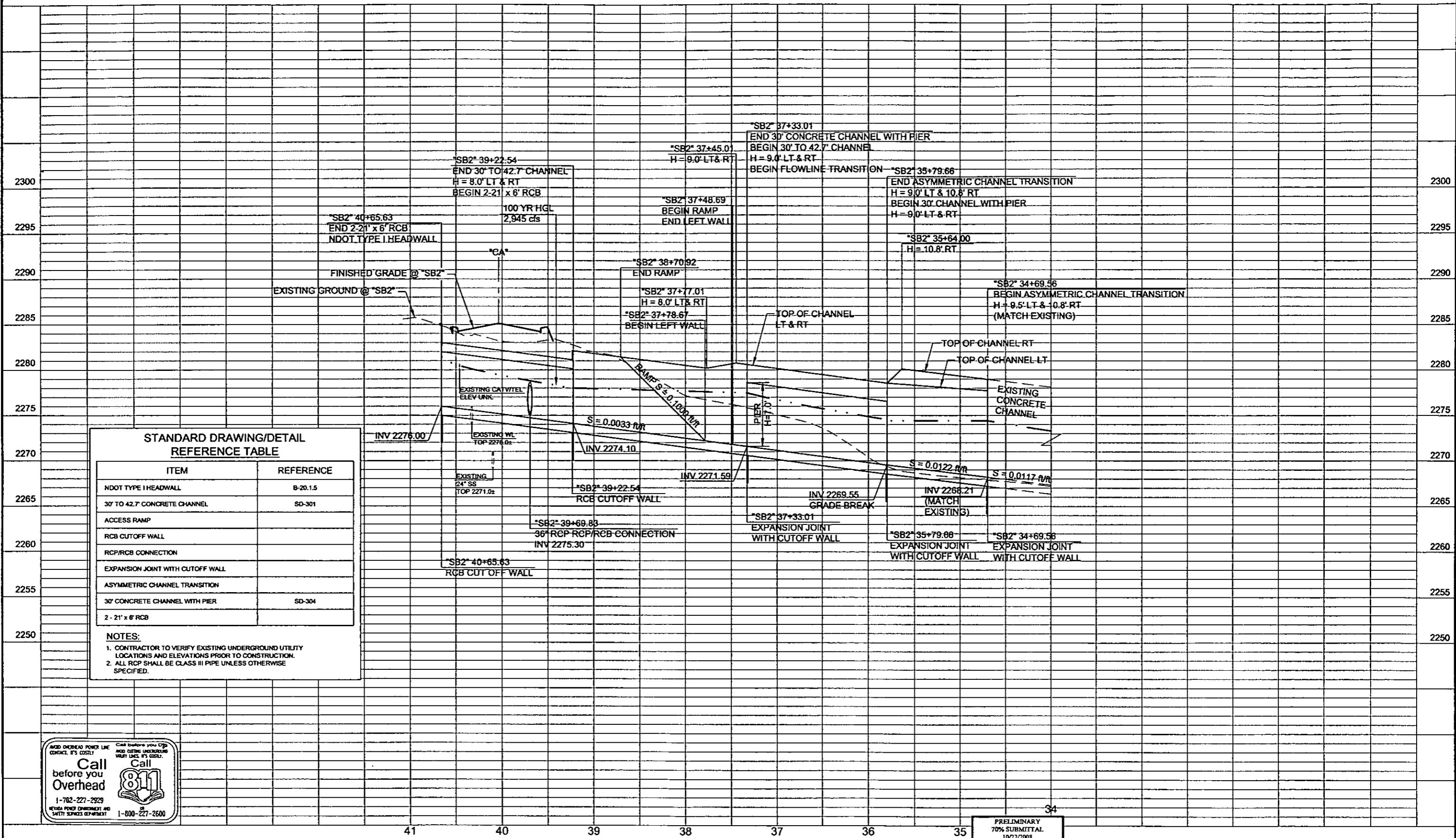


PROJECT No: 1014 DRAWN BY: JPS
 DESIGNED BY: FKR CHECKED BY: SJD
 APPROVED BY: TDL
THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 LAS VEGAS, NEVADA 89118
 PHONE (702) 736-8832 FAX (702) 736-0704

SCALE: HORIZ: AS SHOWN VERT: NONE
 FIELD BOOK: NONE WORK ORDER: 2008-
 SHEET No: **SD-207**

REV. NO.	DATE	DESCRIPTION	APPROVED

PLOT DATE: Wednesday, July 23, 2008 1:31:34 PM
 FILE NAME: P:\CCTUS\PLAN\PHASE 2\SHEET\DRAINAGE\PROFILES\114-PHASE 2-SD-208.DWG
 REFERENCE FILES:



STANDARD DRAWING/DETAIL REFERENCE TABLE	
ITEM	REFERENCE
NDOT TYPE I HEADWALL	B-20.1.5
30' TO 42.7' CONCRETE CHANNEL	SD-301
ACCESS RAMP	
RCB CUTOFF WALL	
RCP/RCB CONNECTION	
EXPANSION JOINT WITH CUTOFF WALL	
ASYMMETRIC CHANNEL TRANSITION	
30' CONCRETE CHANNEL WITH PIER	SD-304
2 - 21' x 6' RCB	

NOTES:
 1. CONTRACTOR TO VERIFY EXISTING UNDERGROUND UTILITY LOCATIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.
 2. ALL RCP SHALL BE CLASS III PIPE UNLESS OTHERWISE SPECIFIED.

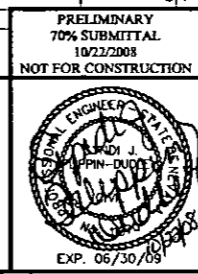


CACTUS AVENUE / I-15 INTERCHANGE

DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD

DRAINAGE PROFILES

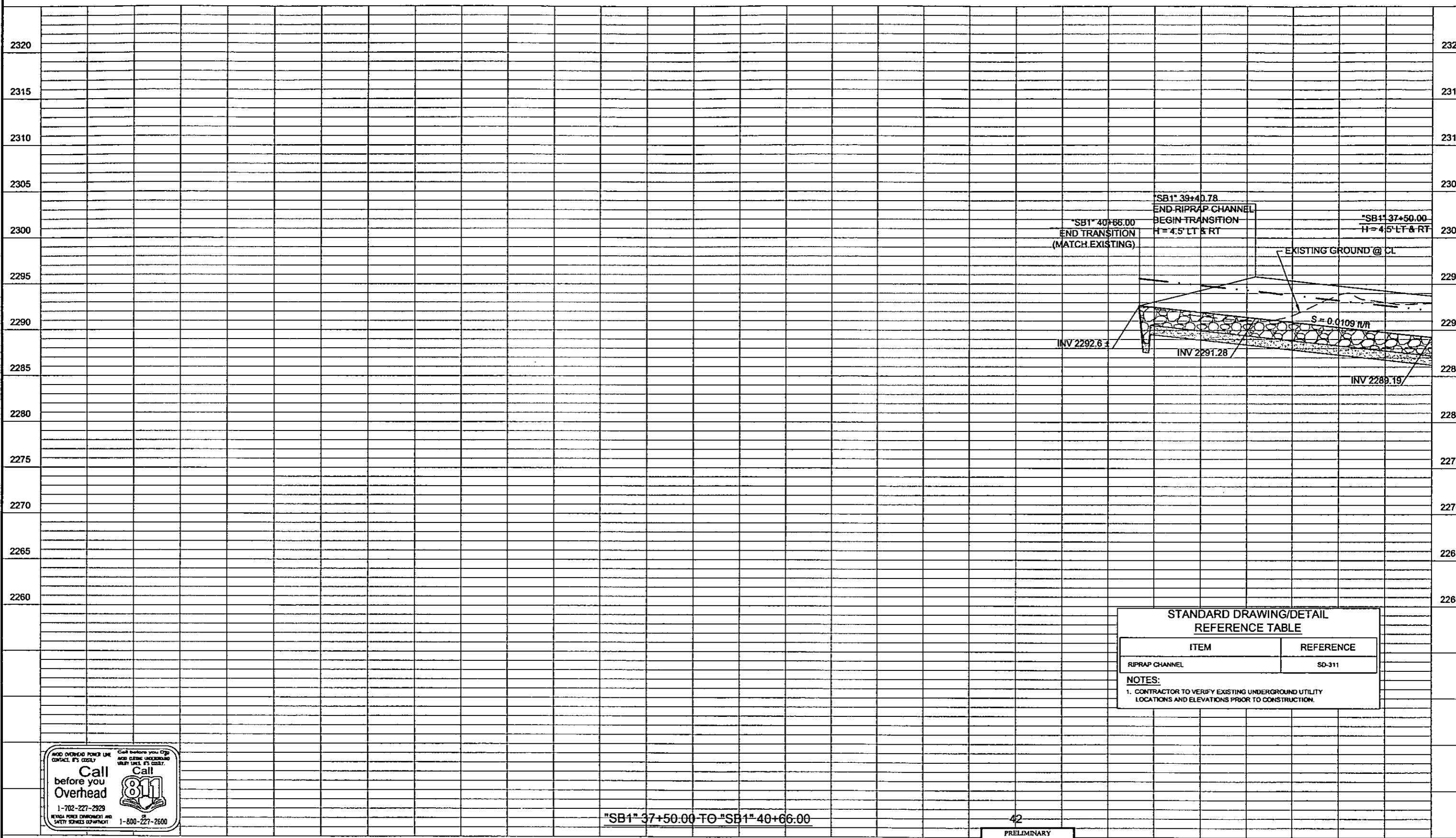
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 1014 DRAWN BY: GFY
 DESIGNED BY: FJR CHECKED BY: SJD
 APPROVED BY: TDL
THE Louis Berger Group, Inc.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89118
 PHONE (702) 736-8832 • FAX (702) 736-0704

SCALE	SHEET No
HORIZ: AS SHOWN	SD-208
VERT: NONE	
FIELD BOOK: NONE	
WORK ORDER: 2008	

REV. NO.	DATE	DESCRIPTION	APPROVED



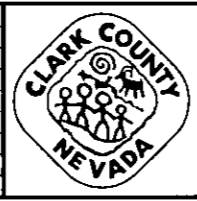
"SB1" 37+50.00 TO "SB1" 40+66.00

STANDARD DRAWING/DETAIL REFERENCE TABLE	
ITEM	REFERENCE
RIPRAP CHANNEL	SD-311

NOTES:
 1. CONTRACTOR TO VERIFY EXISTING UNDERGROUND UTILITY LOCATIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.



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 10/22/2008
 NOT FOR CONSTRUCTION

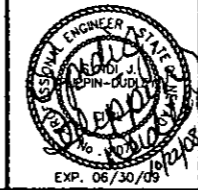


CACTUS AVENUE / I-15 INTERCHANGE

DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD

DRAINAGE PROFILES

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



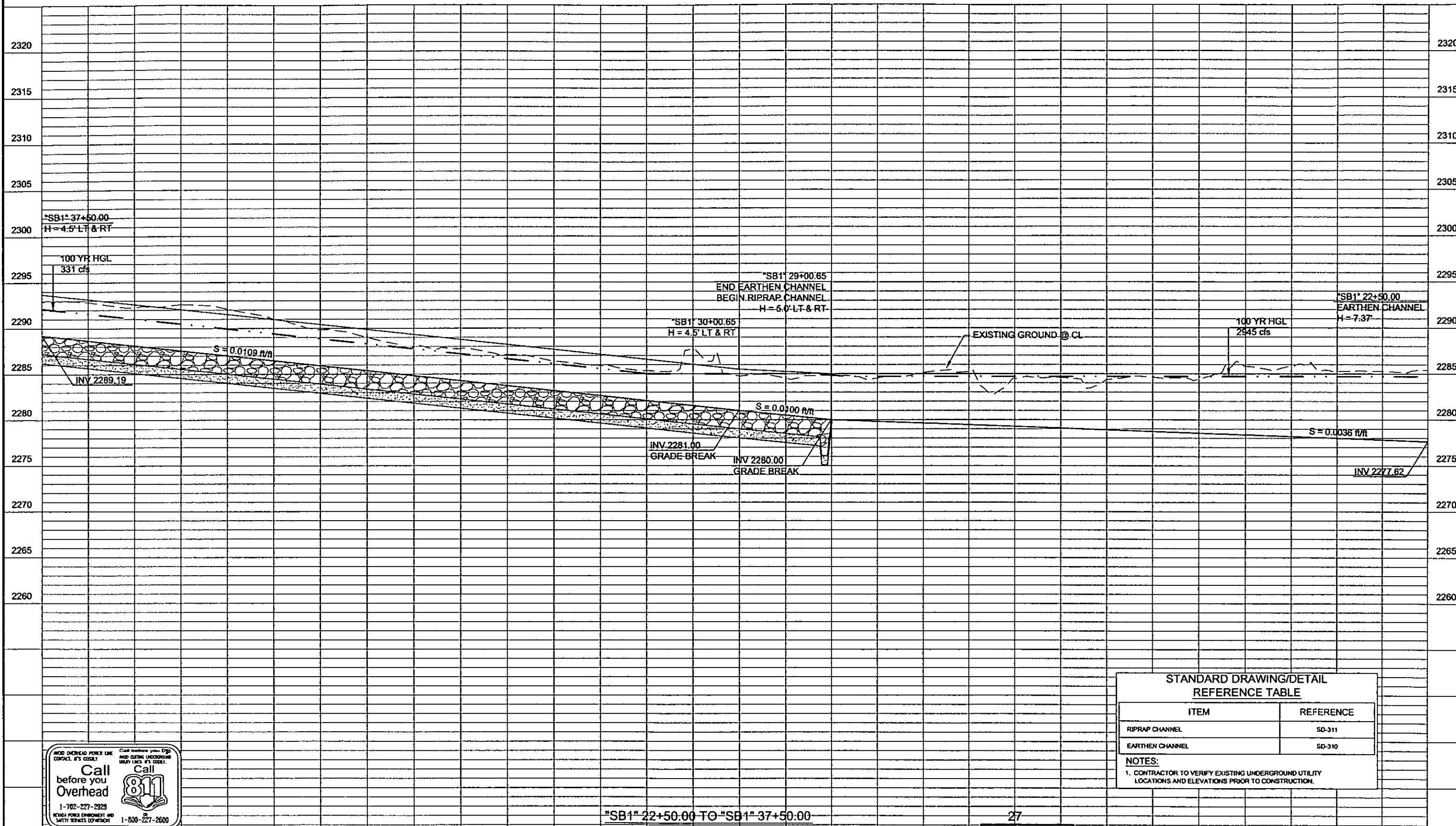
PROJECT No: 1014 DRAWN BY: JPS
 DESIGNED BY: JSD CHECKED BY: SJJ
 APPROVED BY: TDL

THE Louis Berger Group, INC.
 500 AMGO COURT, SUITE 100 LAS VEGAS, NEVADA 89118
 PHONE (702) 736-6032 *FAX (702) 736-6704

SCALE: AS SHOWN
 SHEET No: **SD-209**
 VERT: NONE
 FIELD BOOK: NONE
 WORK ORDER: 2008

PLOT DATE: Wednesday, July 23, 2008 1:36:19 PM
 FILE NAME: PACCPW081016-CACTUS I-15 PHASE 2 SHEETS FOR I-15 PHASE 2-SD209.DWG
 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



Call before you Overhead

1-800-227-2600

1-702-227-2929

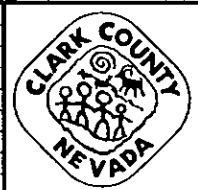
NEVADA POWER CORPORATION AND SAFETY SERVICES DEPARTMENT

STANDARD DRAWING/DETAIL REFERENCE TABLE	
ITEM	REFERENCE
RIPRAP CHANNEL	SD-311
EARTHEN CHANNEL	SD-310

NOTES:
1. CONTRACTOR TO VERIFY EXISTING UNDERGROUND UTILITY LOCATIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.

"SB1" 22+50.00 TO "SB1" 37+50.00

27
PRELIMINARY
70% SUBMITTAL
10/22/2008
NOT FOR CONSTRUCTION

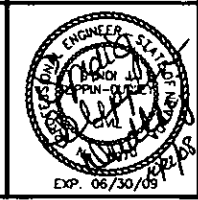


CACTUS AVENUE / I-15 INTERCHANGE

DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD

DRAINAGE PROFILES

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 1014 DRAWN BY: JPS
DESIGNED BY: JSD CHECKED BY: SJD
APPROVED BY: TDL

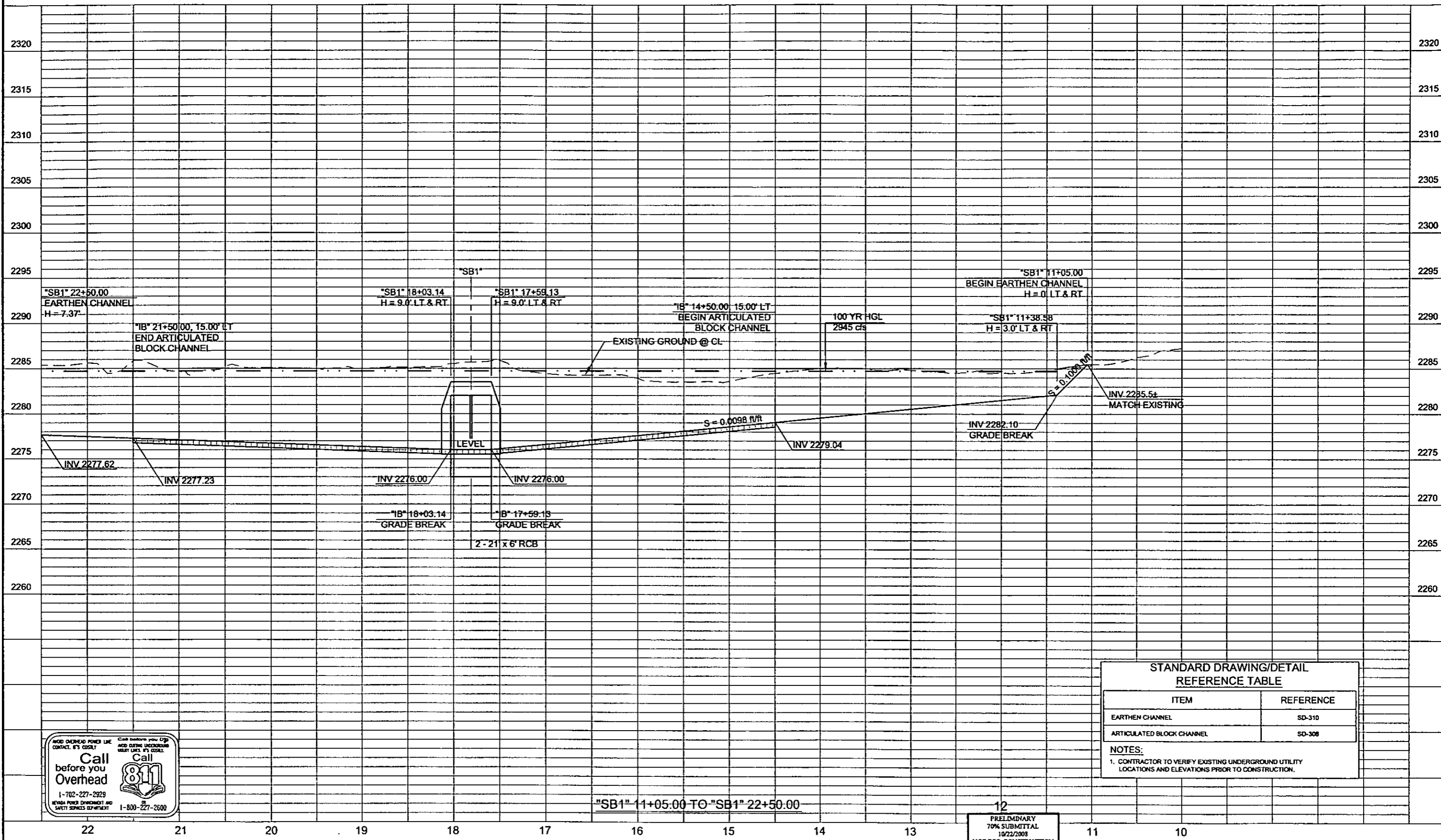
THE Louis Berger Group, INC.
500 AMIGO COURT, SUITE 100 *LAS VEGAS, NEVADA *89119
PHONE (702) 736-0632 *FAX (702) 736-0704

SCALE	SHEET No
HORIZ: AS SHOWN	SD-210
VERT: NONE	
FIELD BOOK NONE	
WORK ORDER 2008	

PLOT DATE: Wednesday, 10/22/2008 1:26:48 PM
 FILE NAME: P:\CCTUS\CACTUS\PLAN\PHASE 2\SHEET\RD\CACTUS\PROFILES\14\PHASE 2\SD21.DWG
 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED

PLOT DATE: Wednesday, July 26, 2006 1:28:28 PM
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 REFERENCE FILES:



STANDARD DRAWING/DETAIL REFERENCE TABLE	
ITEM	REFERENCE
EARTHEN CHANNEL	SD-310
ARTICULATED BLOCK CHANNEL	SD-308

NOTES:
 1. CONTRACTOR TO VERIFY EXISTING UNDERGROUND UTILITY LOCATIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.

"SB1" 11+05.00 TO "SB1" 22+50.00

12
 PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

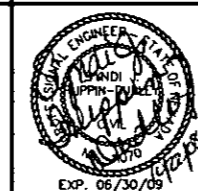


CACTUS AVENUE / I-15 INTERCHANGE

DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD

DRAINAGE PROFILES

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



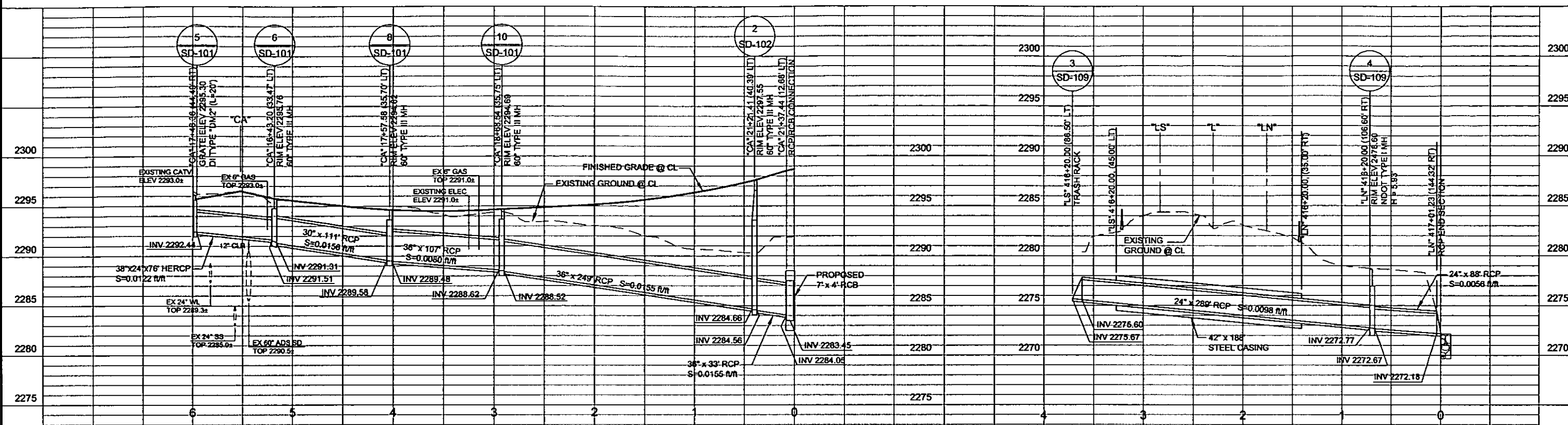
PROJECT No: 1014 DRAWN BY: JPS
 DESIGNED BY: JSD CHECKED BY: SJD
 APPROVED BY: TDL

THE Louis Berger Group, INC.
 800 ARGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119
 PHONE (702) 736-8632 • FAX (702) 736-0704

SCALE	SHEET No
HORIZ: AS SHOWN	SD-211
VERT: NONE	
FIELD BOOK NONE	
WORK ORDER 2008-	

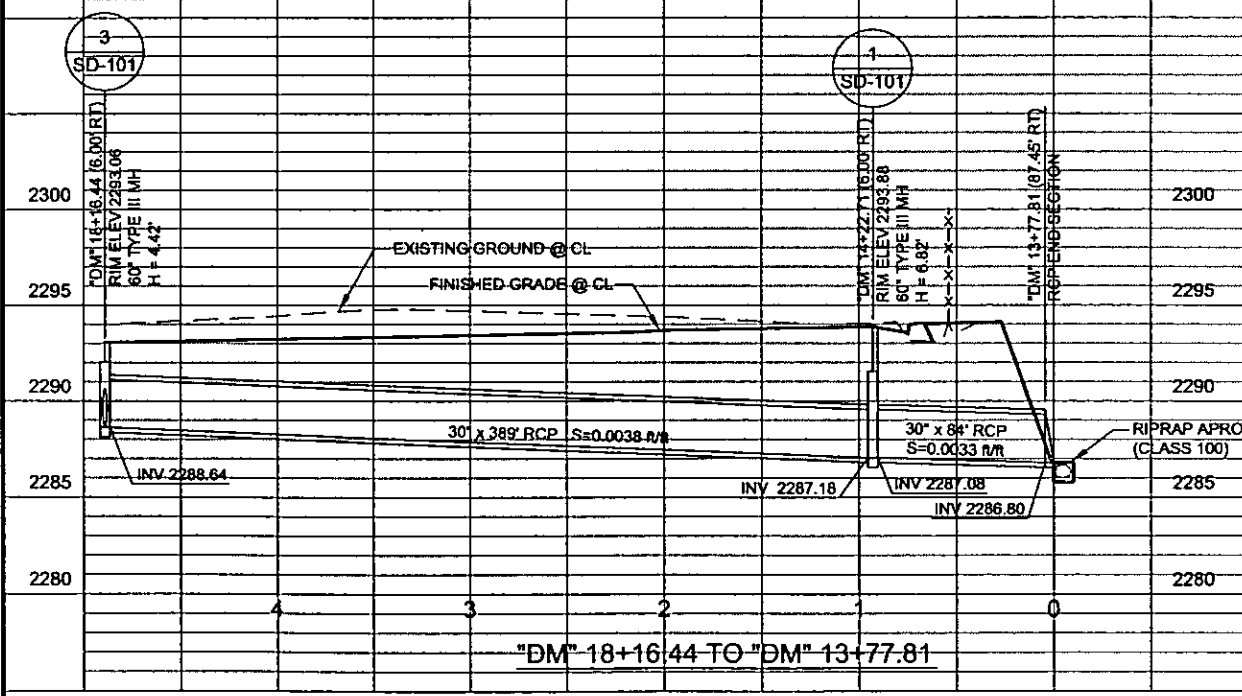
REV. NO.	DATE	DESCRIPTION	APPROVED

PLOT DATE: Wednesday, 7/23/2008 1:27:31 PM
 FILE NAME: P:\CCTV\PROJECTS\DRAINAGE\PHASE 3\DRAINAGE\PROFILES\1914\PHASE 3-SD213.DWG
 REFERENCE FILES:



"CA" 17+46.36 TO "CA" 21+37.44

"LS" 416+20.00 TO "LN" 417+01.23



"DM" 18+16.44 TO "DM" 13+77.81

STANDARD DRAWING/DETAIL REFERENCE TABLE

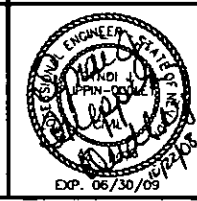
ITEM	REFERENCE
DROP INLET TYPE 'DM2'	USDCCA NO. 412A
60" TYPE III MANHOLE	USDCCA NO. 408
RCP/RCB CONNECTION	
TRASH RACK	
RCP END SECTION	NDOT NO. R-2.3.1
RIPRAP APRON	

NOTES:

- CONTRACTOR TO VERIFY EXISTING UNDERGROUND UTILITY LOCATIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.
- ALL RCP SHALL BE CLASS III PIPE UNLESS OTHERWISE SPECIFIED.

Call before you dig
 Call before you dig
 Call before you dig
 Call before you dig
Call before you Overhead
 1-702-227-2929
 NEVADA POWER DIVISION AND SAFETY SERVICES DIVISION 1-800-227-2600

PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

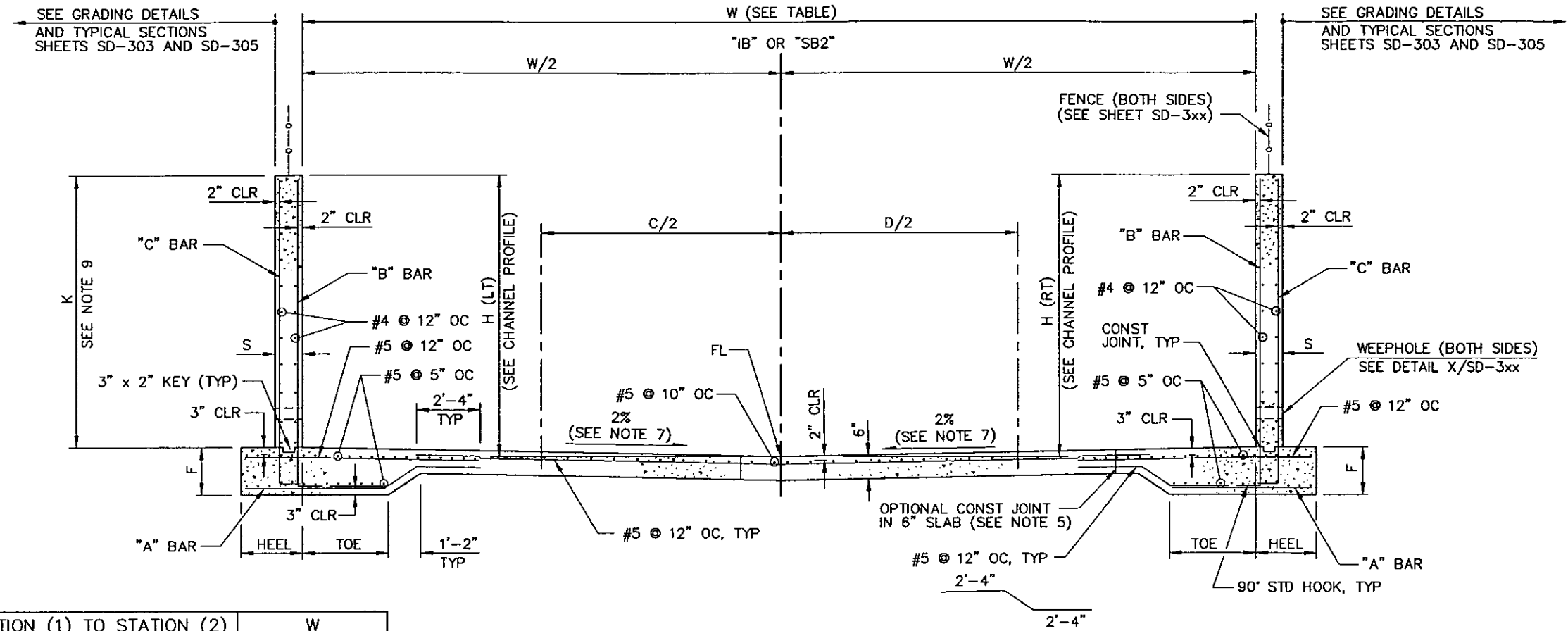


PROJECT No: 1014 DRAWN BY: JPS
 DESIGNED BY: FJR CHECKED BY: SJD
 APPROVED BY: TDL
THE Louis Berger Group, Inc.
 500 AMIGO COURT, SUITE 100 LAS VEGAS, NEVADA 89118
 PHONE (702) 736-8832 *FAX (702) 736-0704

SCALE
 HORIZ: AS SHOWN
 VERT: NONE
 FIELD BOOK: NONE
 WORK ORDER: 2008
 SHEET No
SD-213

CLARK COUNTY NEVADA
CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
DRAINAGE PROFILES
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

REV. NO.	DATE	DESCRIPTION	APPROVED



STATION (1) TO STATION (2)	W
"IB" 30+05.93 TO "IB" 41+06.89	40'-0"
"IB" 41+06.89 TO "IB" 41+56.89	VARIES 40'-0" TO 30'-4"
"IB" 41+56.89 TO "IB" 42+66.02	30'-4"
"SB2" 37+33.01 TO "SB2" 39+22.64	VARIES 30'-0" TO 42'-8"

SCHEDULE OF DIMENSIONS AND REINFORCING STEEL

K	"A" BAR	"B" BAR	"C" BAR	HEEL	TOE	S	F
9'-6"	#5 @ 9"	#5 @ 12"	#6 @ 6"	2'-4"	6'-4"	1'-0"	1'-0"

NOTES:

1. SEE GENERAL DRAINAGE NOTES SHEET SD-3xx.
2. DIMENSIONS H (LT) AND H (RT) ARE THE HEIGHT FROM THE FLOW LINE TO THE TOP OF WALL FOR THE LEFT AND RIGHT SIDES OF THE CHANNEL, RESPECTIVELY.
3. CROSS SECTION IS SHOWN FACING UPSTREAM.
4. THE CONTRACTOR MAY, AT HIS OPTION, CONSTRUCT A STEM WALL 6" ABOVE CHANNEL BOTTOM SLAB THAT IS POURED MONOLITHICALLY WITH CHANNEL BOTTOM SLAB. WEEPHOLE MAY THEN BE PLACED ABOVE KEYED CONSTRUCTION JOINT.
5. NO CONSTRUCTION JOINTS ARE TO BE PERMITTED IN CHANNEL FLOOR SLAB.
6. SEE SHEETS SD-3xx AND SD-3xx FOR JOINT DETAILS.
7. a) PROVIDE SMOOTH TRANSITION FROM 2% CROSS SLOPE AT STATION "IB" 41+56.89 TO MATCH LEVEL FLOOR OF CULVERTS AT STATION "IB" 42+66.02.
b) PROVIDE SMOOTH TRANSITION FROM 2% CROSS SLOPE AT STATION "SB2" 39+72.54 TO MATCH LEVEL FLOOR OF CULVERTS AT STATION "SB2" 39+22.54.
8. SEE SHEET SD-3xx FOR EXCAVATION AND BACKFILL.
9. DIMENSION K IS THE WALL HEIGHT FROM THE TOE OF WALL TO THE TOP OF WALL.

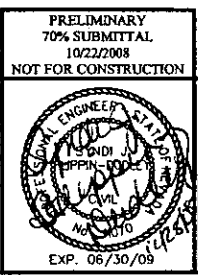
(A) RECTANGULAR CONCRETE CHANNEL
SD-301 NTS

PLOT DATE: Wednesday, 7/23/2008 1:33:39 PM
 FILE NAME: P:\CCTUS\PHASE 2\SHSHEET\GRADING\1914-PHASE 2\010.DWG
 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
GRADING DETAILS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

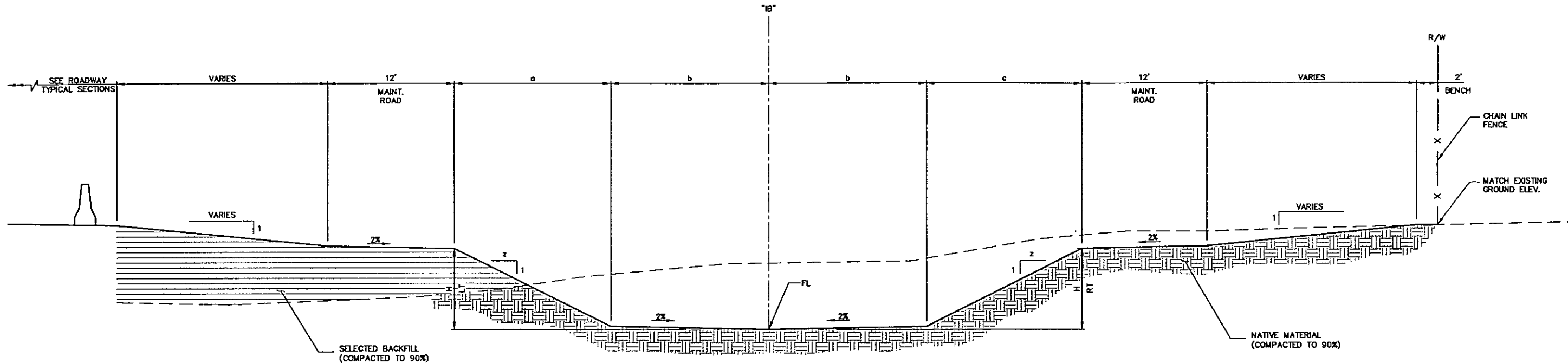


PRELIMINARY
70% SUBMITTAL
10/22/2008
NOT FOR CONSTRUCTION

PROJECT No: CB1014 DRAWN BY: JPS
 DESIGNED BY: JSD CHECKED BY: SJD
 APPROVED BY: TDL

THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA 89119
 PHONE (702) 736-6632 • FAX (702) 736-0704

SCALE		SHEET No
HORIZ:	NONE	SD-301
VERT:	NONE	
FIELD BOOK:	NONE	
WORK ORDER:	2008-	MANY



A EARTHEN CHANNEL SECTION "IB"
SD-302 NTS

STATION (1) TO STATION (2)	a	b	c	z
"IB" 14+72.00 TO "IB" 21+00.00	30.20'	22.50'	30.20'	4'
"IB" 21+00.00 TO "IB" 21+40.00	VARIES 30.20' TO 28.20'	22.50'	VARIES 30.20' TO 28.20'	4'
"IB" 21+40.00 TO "IB" 23+87.31	28.20'	22.50'	28.20'	4'
"IB" 23+87.31 TO "IB" 24+78.76	28.20	22.50	SEE GRADING PLAN	4'
"IB" 24+78.76 TO "IB" 25+60.00	28.20'	22.50'	28.20'	4'
"IB" 25+60.00 TO "IB" 26+00.00	VARIES 28.20' TO 26.20'	22.50'	VARIES 28.20' TO 26.20'	4'
"IB" 26+00.00 TO "IB" 28+05.96	26.20'	22.50'	26.20'	4'
"IB" 28+05.96 TO "IB" 29+05.93	VARIES 26.20' TO 10.30'	VARIES 22.50' TO 15.00'	VARIES 26.20' TO 10.30'	VARIES 4' TO 2'

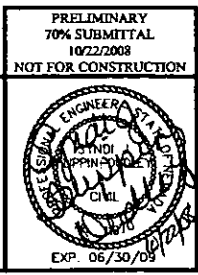
- NOTES:**
- SEE CHANNEL PROFILE SHEETS SD-202 THROUGH SD-203 FOR CHANNEL DEPTH (H), LEFT (LT) AND RIGHT (RT).
 - CHANNEL SECTION SHOWN FACING UPSTREAM.

PLOT DATE: Wednesday, 7/23/2008 1:32:20 PM
 FILE NAME: P:\C\PROJECTS\11\CACTUS\PLAN\PHASE 1\SHEETS\06\00\01\14\PHASE 2\01\DWG
 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
DRAINAGE DETAILS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

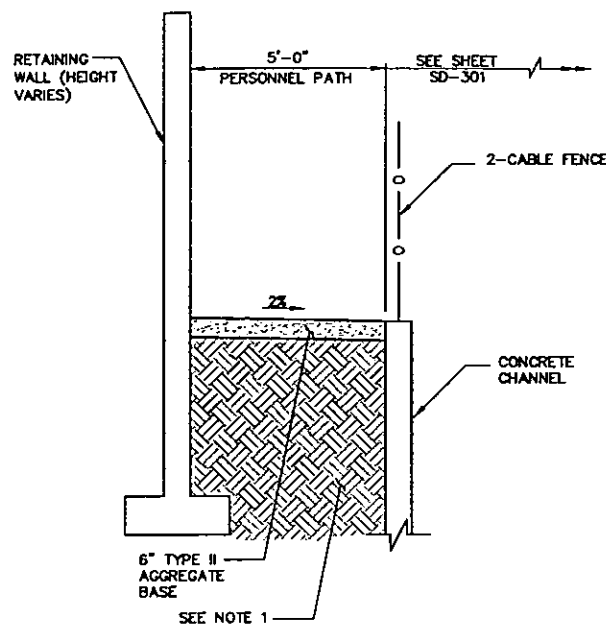


PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

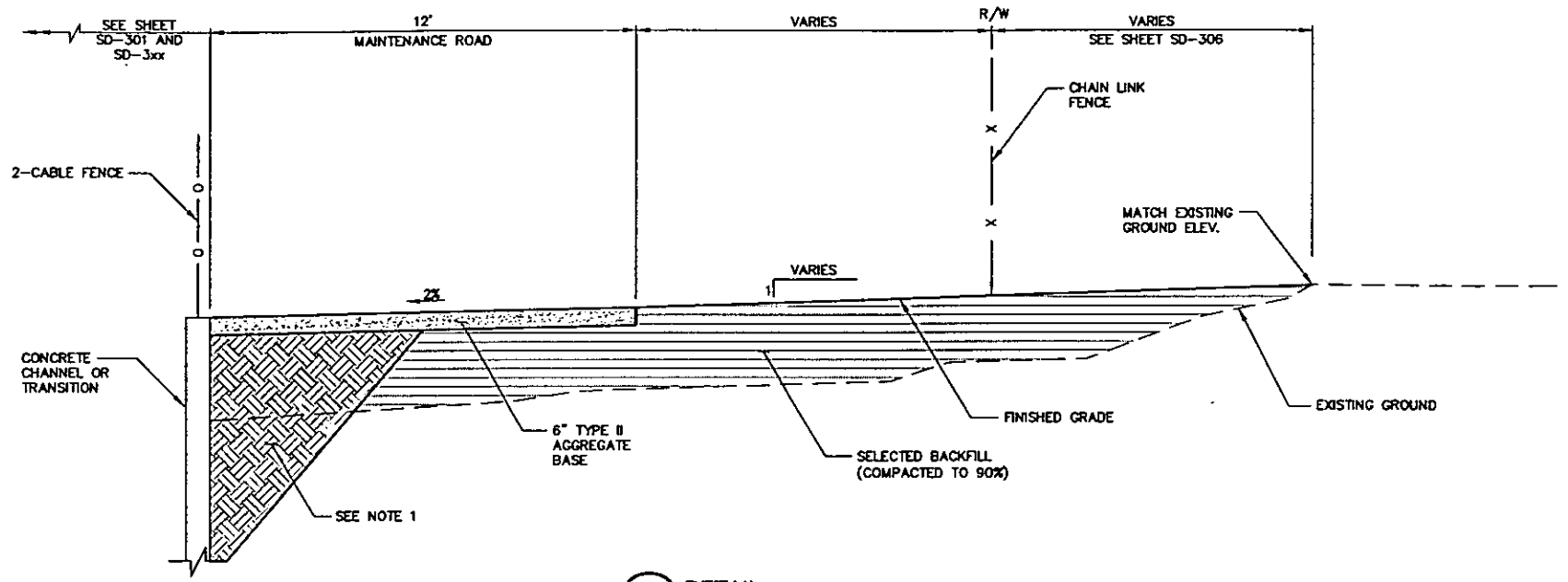
PROJECT No: CB1014 DRAWN BY: JPS
 DESIGNED BY: JSD CHECKED BY: SJD
 APPROVED BY: TDL

THE Louis Berger Group, Inc.
 500 AMIGO COURT, SUITE 100 LAS VEGAS, NEVADA 89119
 PHONE (702) 736-0832 * FAX (702) 736-0704

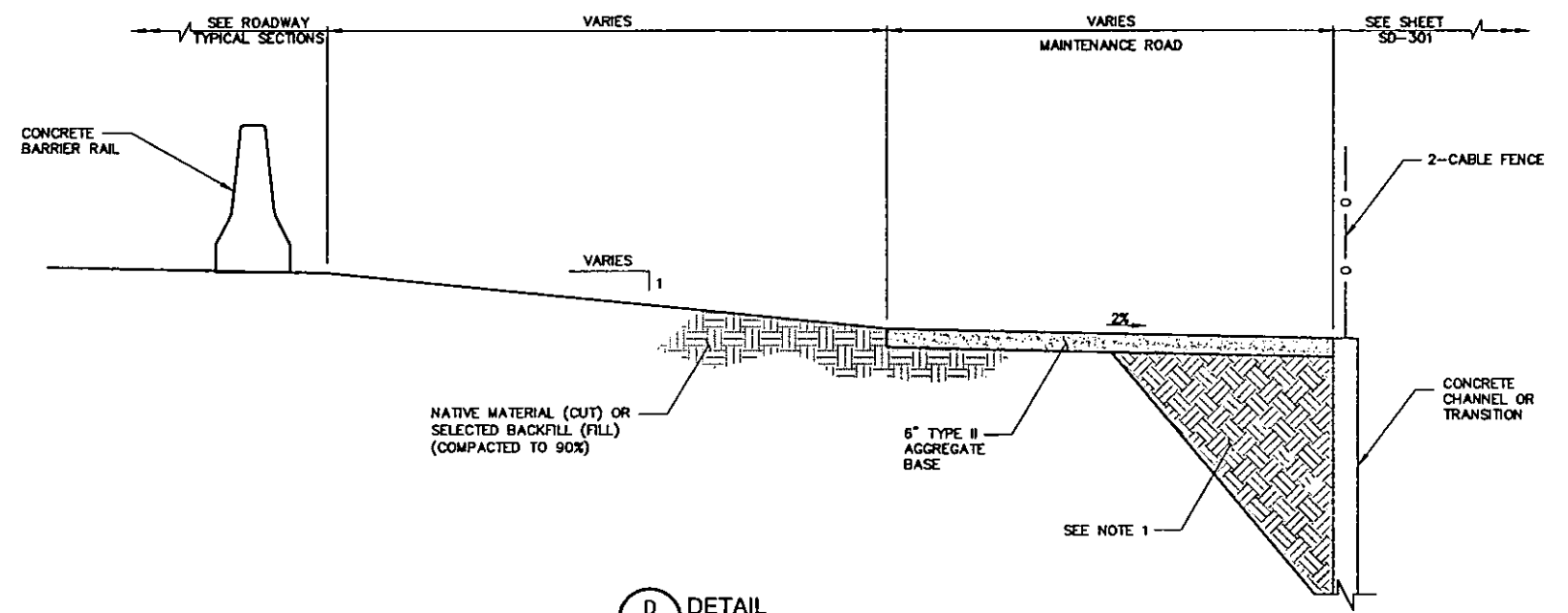
SCALE	SHEET No
HORIZ: NONE	SD-302
VERT: NONE	
FIELD BOOK: NONE	
WORK ORDER: 2008-	



A DETAIL
SD-303 NTS
"IB" 35+72.21 TO "IB" 38+15.23

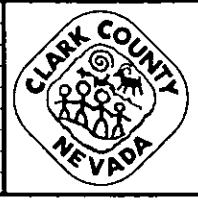


B DETAIL
SD-303 NTS
"IB" 29+05.93 TO "IB" 42+66.02



D DETAIL
SD-303 NTS
"IB" 29+05.93 TO "IB" 35+72.21
"IB" 38+15.23 TO "IB" 42+66.02

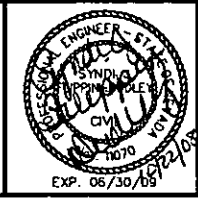
- NOTES:**
- SEE SHEET SD-3xx FOR EXCAVATION AND BACKFILL SECTION.
 - SECTIONS ARE SHOWN FACING UPSTREAM.



CACTUS AVENUE / I-15 INTERCHANGE
DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
DRAINAGE DETAILS

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PRELIMINARY
70% SUBMITTAL
10/22/2008
NOT FOR CONSTRUCTION



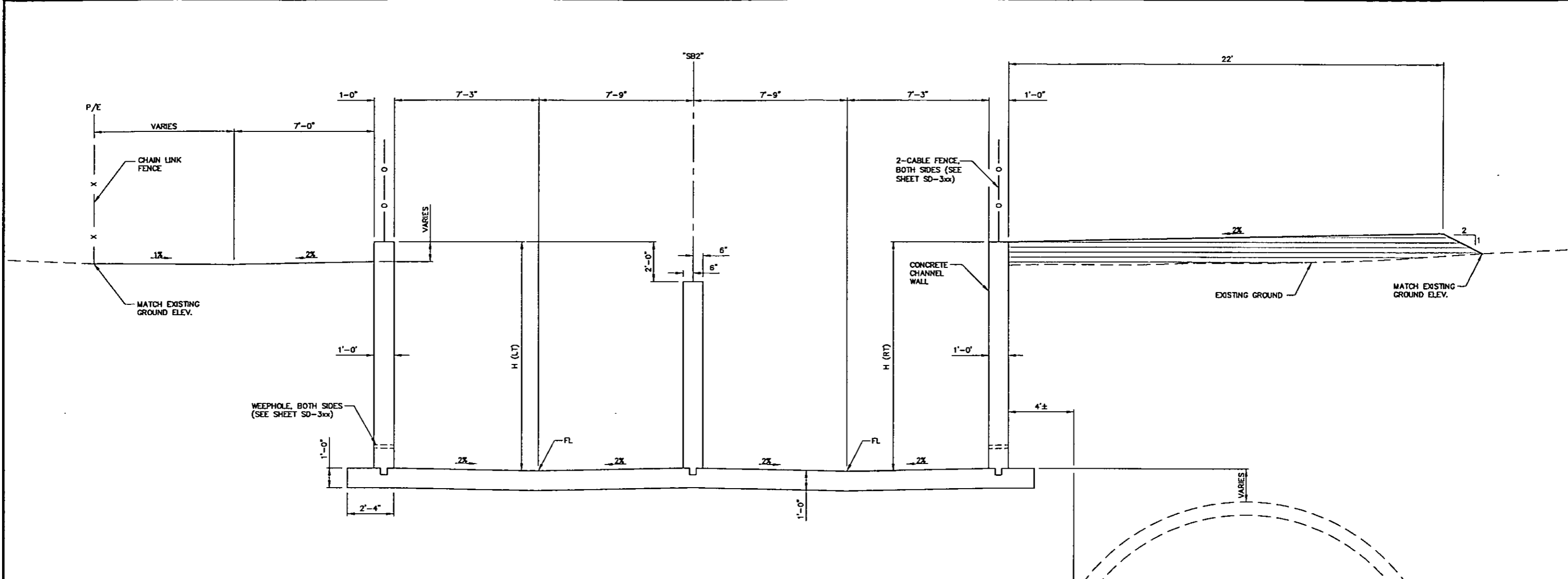
PROJECT No: CB1014 DRAWN BY: JPS
DESIGNED BY: JSD CHECKED BY: SJD
APPROVED BY: TDL
THE Louis Berger Group, INC.
500 AMIGO COURT, SUITE 100 LAS VEGAS, NEVADA 89119
PHONE (702) 736-8832 *FAX (702) 736-0704

SCALE	SHEET No
HORIZ: NONE	SD-303
VERT: NONE	
FIELD BOOK NONE	
WORK ORDER 2008-	

PLOT DATE: Wednesday, July 23, 2008 1:32:45 PM
FILE NAME: P:\CIP\WB11-CACTUS\PLANS\PHASE 2\SHEET\DRAIN\WB11-CACTUS\PHASE 2\DT07.DWG
REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED

CACTUS AVENUE / I-15 INTERCHANGE



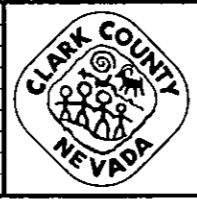
NOTES:

1. SEE GENERAL DRAINAGE NOTES SHEET SD-3xx.
2. DIMENSIONS H (LT) AND H (RT) ARE THE HEIGHT FROM THE FLOW LINE TO THE TOP OF WALL FOR THE LEFT AND RIGHT SIDES OF THE CHANNEL, RESPECTIVELY.
3. CROSS SECTION IS SHOWN FACING UPSTREAM.
4. THE CONTRACTOR MAY, AT HIS OPTION, CONSTRUCT A STEM WALL 6" ABOVE CHANNEL BOTTOM SLAB THAT IS POURED MONOLITHICALLY WITH CHANNEL BOTTOM SLAB. WEEPHOLE MAY THEN BE PLACED ABOVE KEYED CONSTRUCTION JOINT.
5. NO CONSTRUCTION JOINTS ARE TO BE PERMITTED IN CHANNEL FLOOR SLAB.
6. SEE SHEETS SD-3xx AND SD-3xx FOR JOINT DETAILS.
7. SEE SHEET SD-3xx FOR EXCAVATION AND BACKFILL.

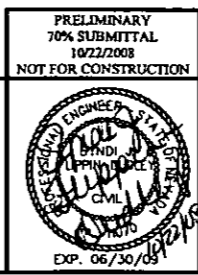
A 30' CONCRETE CHANNEL WITH PIER
 SD-304 NTS
 "SB2" 35+79.66 TO "SB2" 37+33.01

PLOT DATE: Wednesday, 7/26/2006 1:33:19 PM
 FILE NAME: P:\CIP\W08181\CACTUS\PLANS\PHASE 2\SHEETS\DRD\08181\PHASE 2\DT08.DWG
 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
DRAINAGE DETAILS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

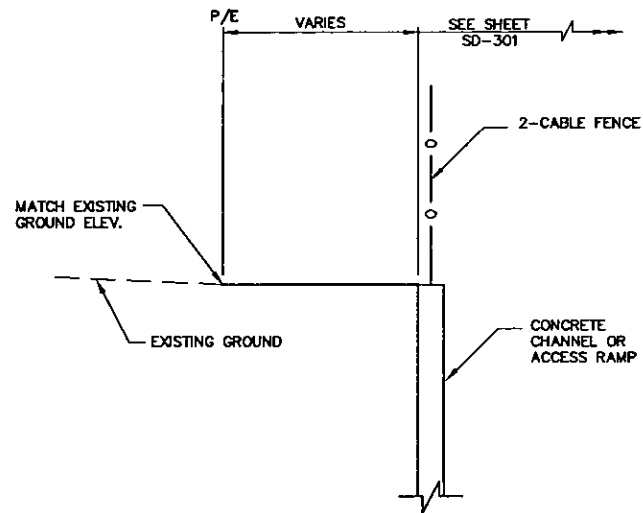


PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

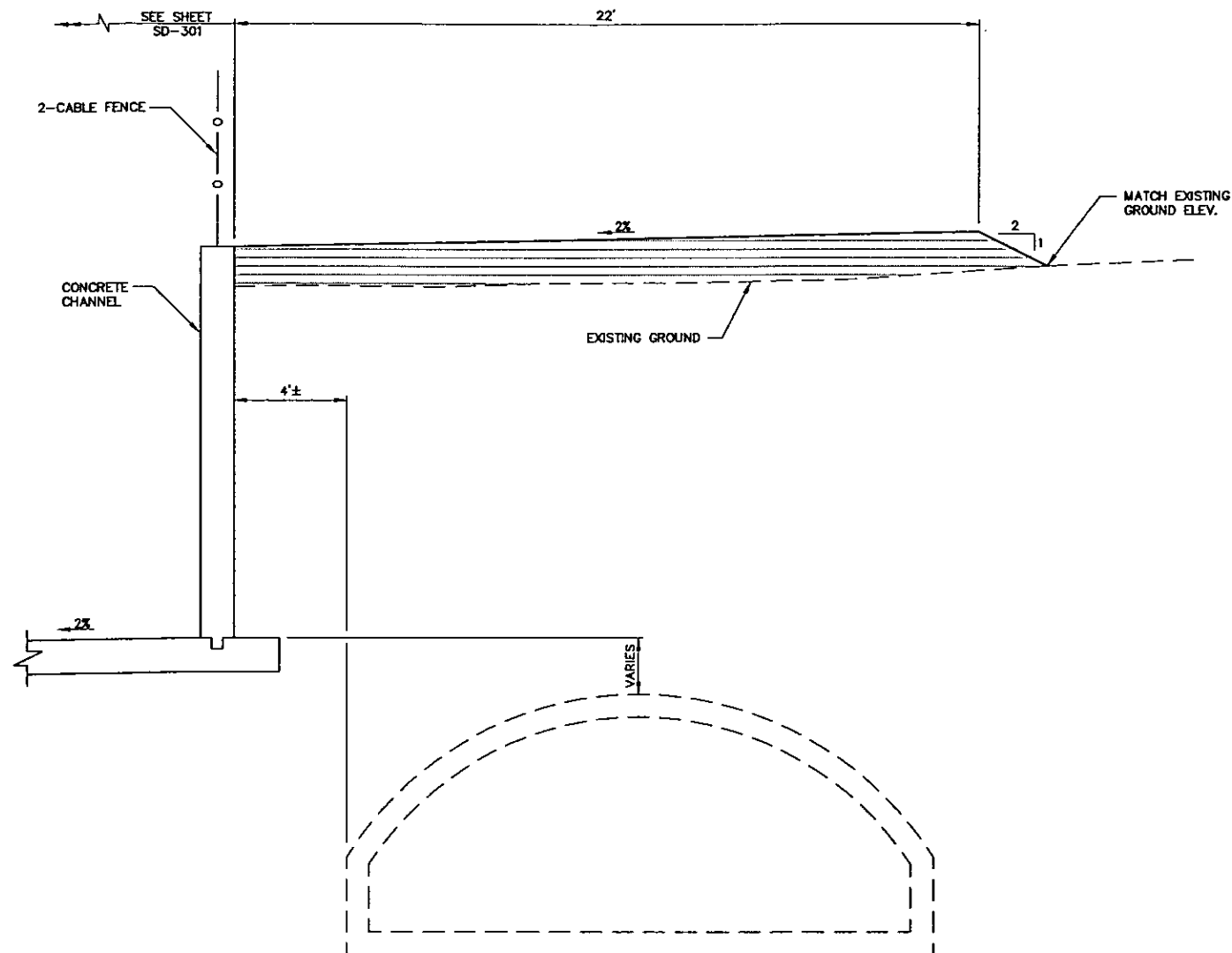
PROJECT No: CB1014 DRAWN BY: JPS
 DESIGNED BY: JSD CHECKED BY: SJD
 APPROVED BY: TDL

THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 LAS VEGAS, NEVADA 89119
 PHONE (702) 736-8832 *FAX (702) 736-0704

SCALE	SHEET No
HORIZ: NONE	SD-304
VERT: NONE	
FIELD BOOK: NONE	
WORK ORDER: 2008-	



A DETAIL
SD-305 NTS
"SB2" 34+69.56 TO "SB2" 38+22.54



B DETAIL
SD-305 NTS
"SB2" 37+33.01 TO "SB2" 39+22.54

NOTES:

1. SEE SHEET SD-3xx FOR EXCAVATION AND BACKFILL SECTION.
2. SECTIONS ARE SHOWN FACING UPSTREAM.

PLOT DATE: Wednesday, July 23, 2008 1:33:01 PM
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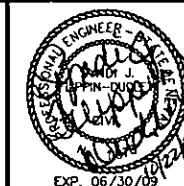
REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
DRAINAGE DETAILS

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

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 10/22/2008
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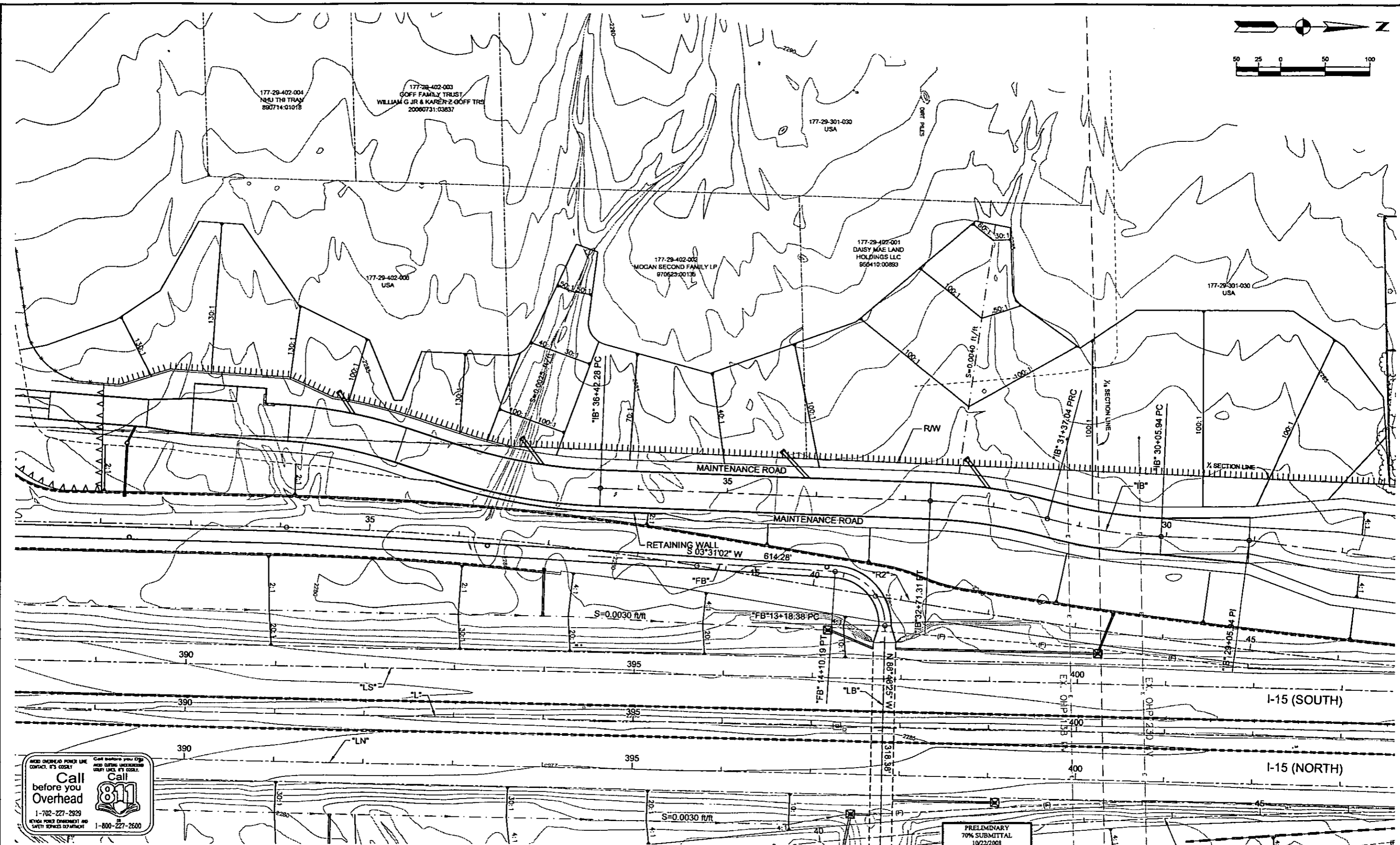
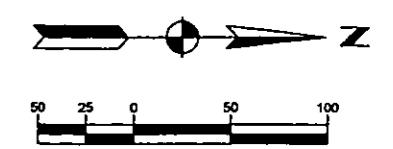


PROJECT No: CB1014 DRAWN BY: JPS
 DESIGNED BY: JSD CHECKED BY: SJD
 APPROVED BY: TDL

THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 LAS VEGAS, NEVADA 89119
 PHONE (702) 736-0632 *FAX (702) 736-0704

SCALE	
HORIZ:	NONE
VERT:	NONE
FIELD BOOK:	NONE
WORK ORDER:	2008

SHEET No
SD-305



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1-800-227-2600



CACTUS AVENUE / I-15 INTERCHANGE

DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD

DRAINAGE DETAIL

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

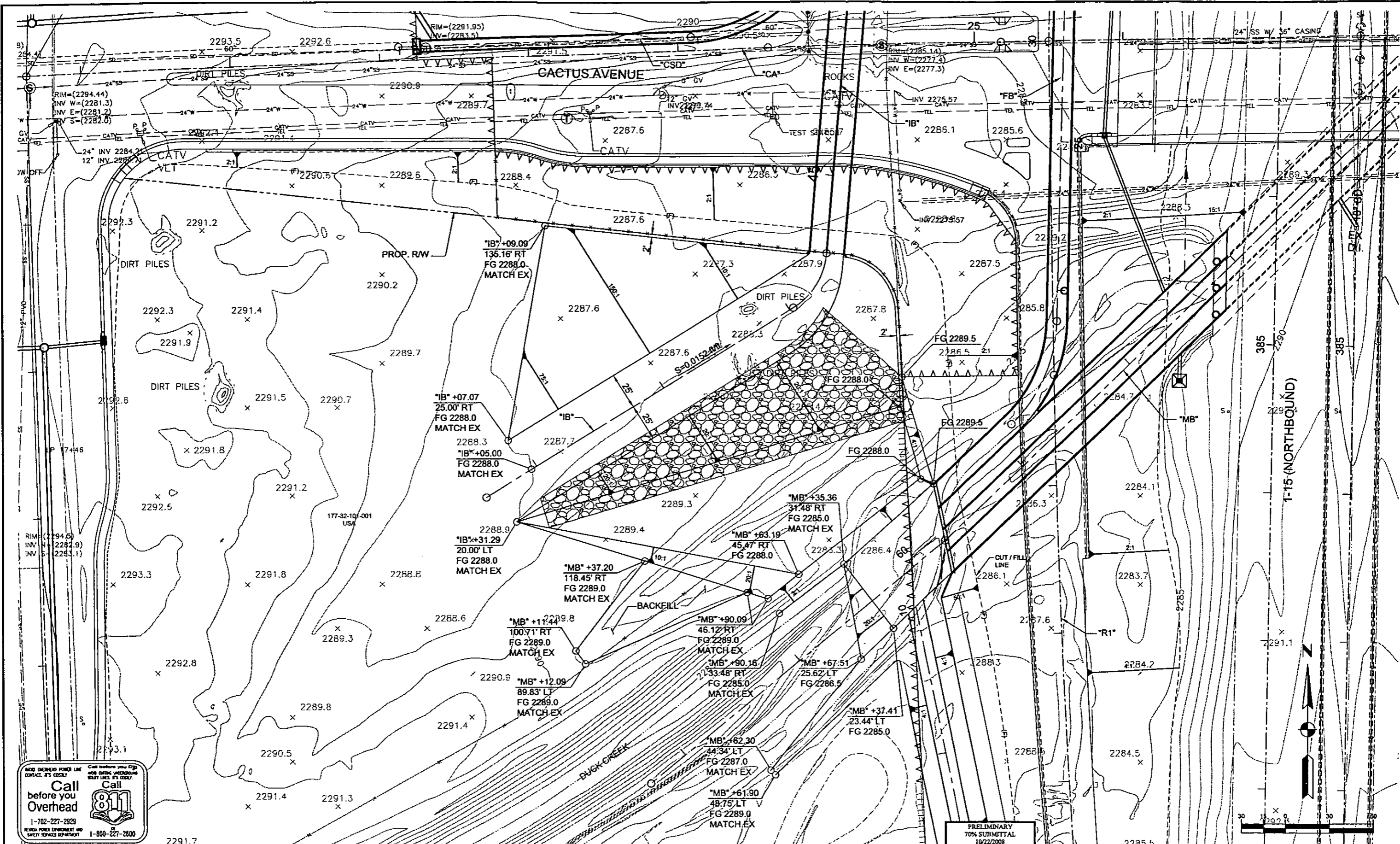
PRELIMINARY
70% SUBMITTAL
10/22/2008
NOT FOR CONSTRUCTION

EXP. 06/30/09

PROJECT No:	1014	DRAWN BY:	JPS	SCALE	SHEET No
DESIGNED BY:	VS	CHECKED BY:	SJD	HORIZ:	AS SHOWN
APPROVED BY:	TDL			VERT:	NONE
				FIELD BOOK:	NONE
				WORK ORDER:	2008-
THE Louis Berger Group, INC. 500 AMIGO COURT, SUITE 100 *LAS VEGAS, NEVADA *89119 PHONE (702) 736-8632 *FAX (702) 736-0704					SD-306

PLOT DATE: 06/29/2008 3:23:12 PM
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REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



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NEVADA POWER DIVISION AND SAFETY SERVICES DEPARTMENT

1-800-227-2600

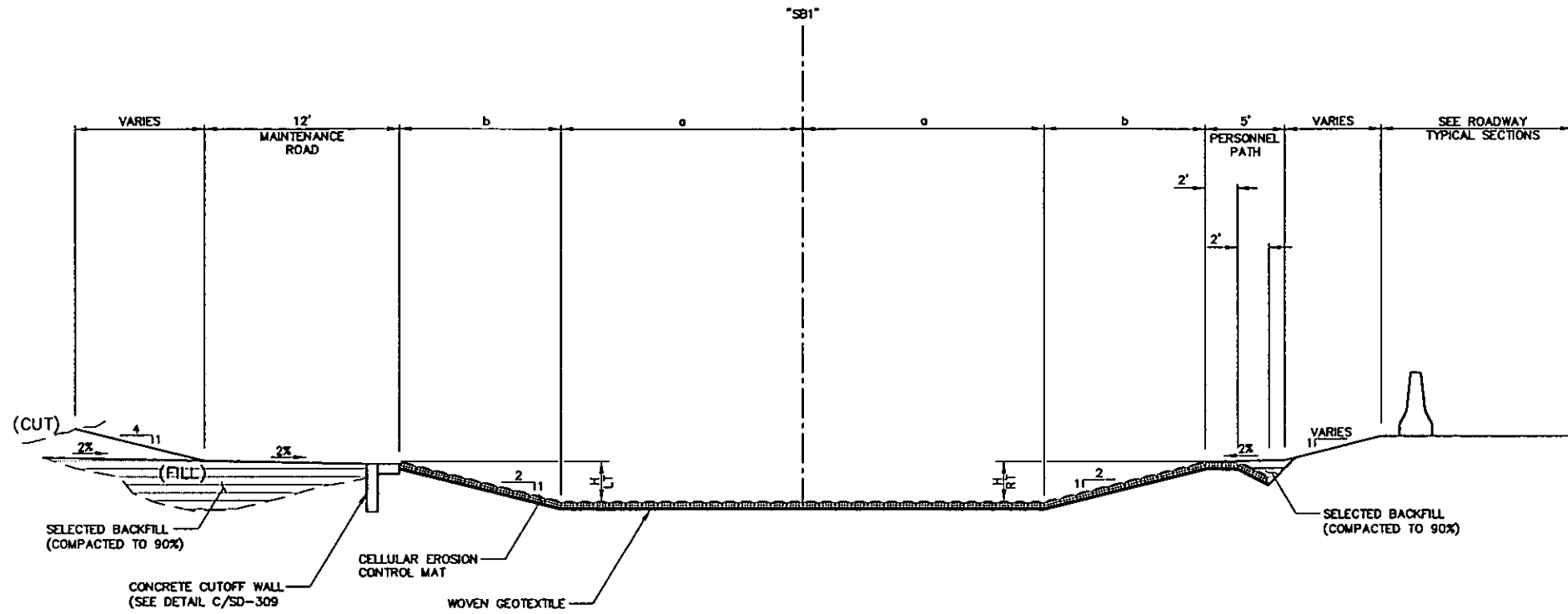
PRELIMINARY
70% SUBMITTAL
10/22/2008
NOT FOR CONSTRUCTION



PLOT DATE: Wednesday, 28. 2008 1:26:41 PM
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REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED

	<h3>CACTUS AVENUE / I-15 INTERCHANGE</h3> <p>DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD</p> <h2>DRAINAGE DETAIL</h2>	PROJECT No: 1014 DESIGNED BY: VS APPROVED BY: TDJ	DRAWN BY: JPS CHECKED BY: SJD	SCALE: HORIZ: AS SHOWN VERT: NONE FIELD BOOK: NONE WORK ORDER: 2008-	SHEET No: <h1>SD-307</h1>
	CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS				THE Louis Berger Group, Inc. <small>500 AMIGO COURT, SUITE 100 LAS VEGAS, NEVADA 89110 PHONE (702) 736-8832 *FAX (702) 736-0704</small>
	EXP. 06/30/09				



A CHANNEL SECTION "SB1"
SD-308 NTS

STATION (1) TO STATION (2)	a	b
"SB1" 14+50.00 TO "SB1" 17+59.13	15.00'	VARIES 12.00' TO 18.00'
"SB1" 17+59.13 TO "SB1" 18+03.14	15.00'	18.00'
"SB1" 18+03.14 TO "SB1" 21+50.00	15.00'	VARIES 18.00' TO 15.50'

NOTES:

- SEE CHANNEL PROFILE SHEET SD-211 FOR CHANNEL DEPTH (H), LEFT (LT) AND RIGHT (RT).
- CHANNEL SECTION SHOWN FACING UPSTREAM.

PLOT DATE: Wednesday, 12/28/2009 1:35:56 PM
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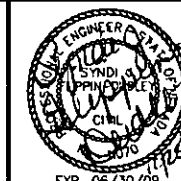
REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
GRADING DETAILS

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

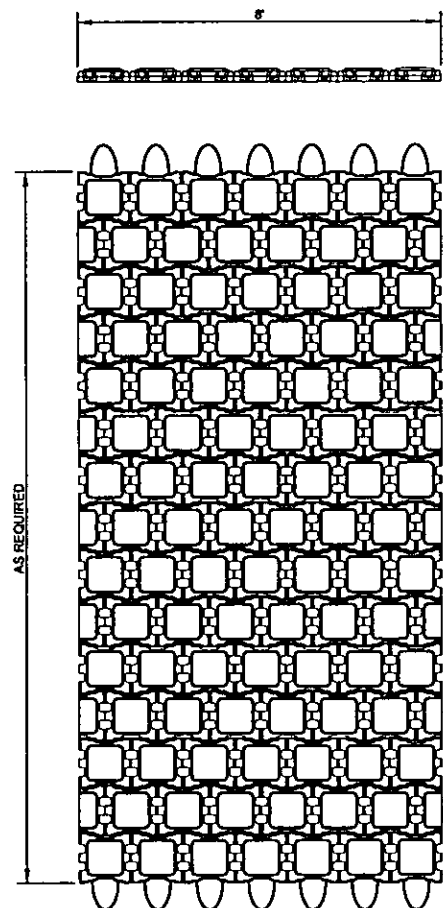
PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION



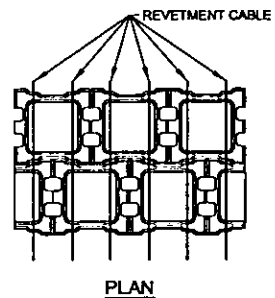
PROJECT No: CB1014 DRAWN BY: GFV
 DESIGNED BY: JSD CHECKED BY: SJD
 APPROVED BY: TDL

THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89118
 PHONE (702) 736-8632 • FAX (702) 736-0704

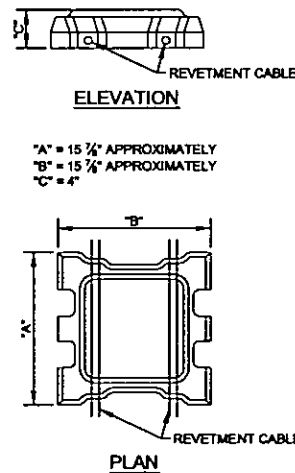
SCALE		SHEET No
HORIZ:	NONE	SD-308
VERT:	NONE	
WORK ORDER	2008-	



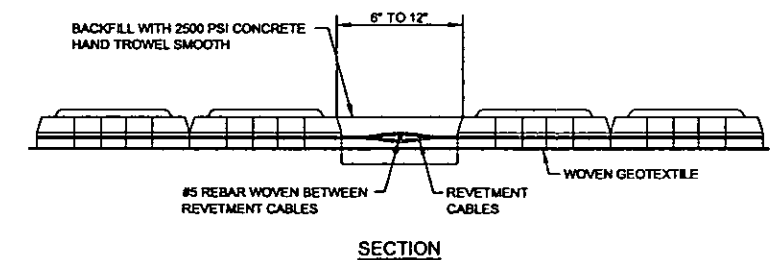
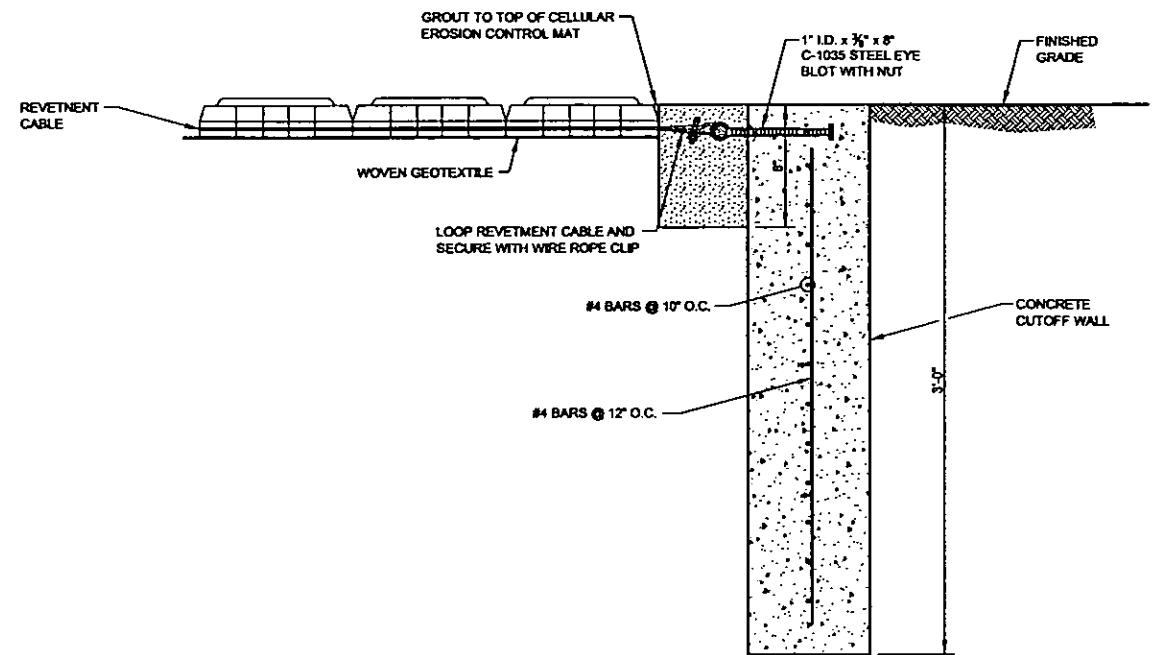
A TYPICAL EROSION CONTROL MAT
SD-309 NTS



B CELLULAR BLOCK DETAIL - CLOSED CELL
SD-309 NTS



C CUTOFF WALL AT EDGE OF CELLULAR EROSION CONTROL MAT
SD-309 NTS



D CONNECTION BETWEEN TWO CELLULAR EROSION CONTROL MAT ENDS USING A CONCRETE JOINT
SD-309 NTS

PLOT DATE: Wednesday, 10/22/2008 1:32:28 PM
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 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED

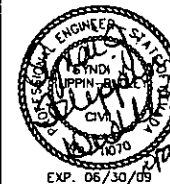


CACTUS AVENUE / I-15 INTERCHANGE

DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
STORM DRAIN DETAILS

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PRELIMINARY
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10/22/2008
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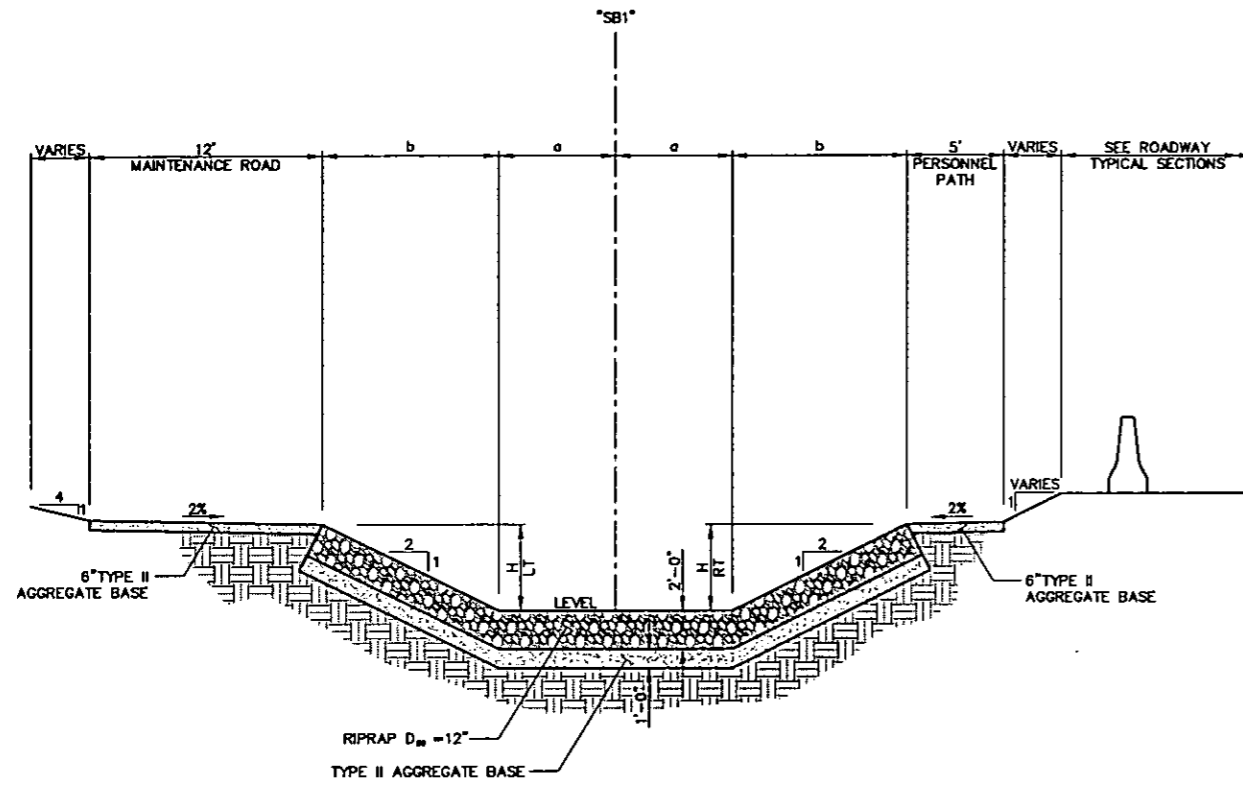


PROJECT No: CB1014 DRAWN BY: GFV
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 APPROVED BY: SJD

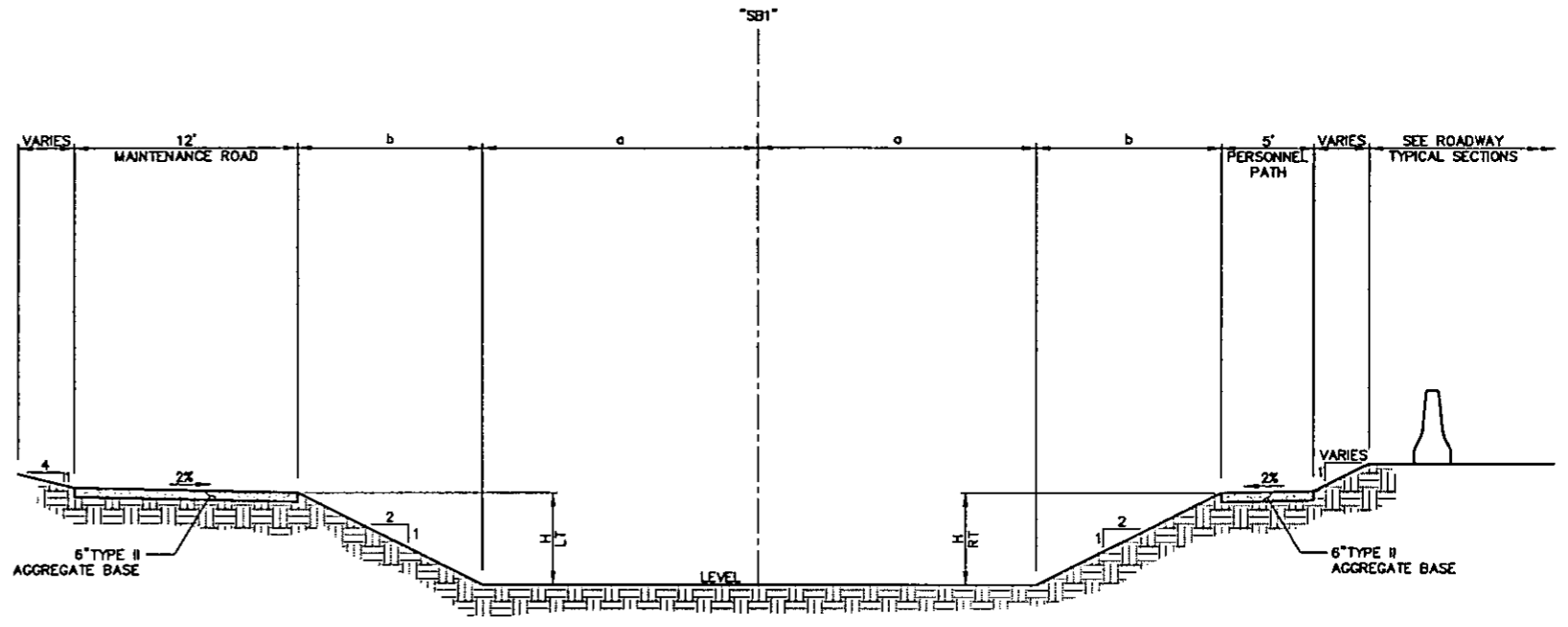
THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119
 PHONE (702) 736-8632 • FAX (702) 736-0704

SCALE	
HORIZ:	NONE
VERT:	NONE
FIELD BOOK	NONE
WORK ORDER	2008-

SHEET No
SD-309



A RIPRAP CHANNEL SECTION "SB1"
SD-310 NTS



B EARTHEN CHANNEL SECTION SB1"
SD-310 NTS

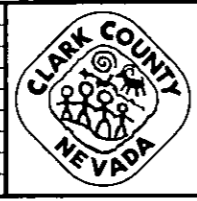
NOTES:

- SEE CHANNEL PROFILE SHEETS SD-209 THROUGH SD-211 FOR CHANNEL DEPTH (H), LEFT (LT) AND RIGHT (RT).
- CHANNEL SECTION SHOWN FACING UPSTREAM.

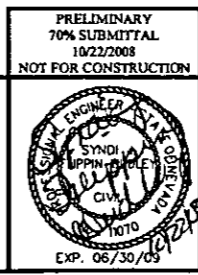
STATION (1) TO STATION (2)	SECTION	a	b
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"SB1" 11+38.58 TO "SB1" 14+50.00	B/SD-308	15.00'	VARIES 6.60' TO 12.00'
"SB1" 14+50.00 TO "SB1" 21+50.00	SEE DETAIL A/SD-308		
"SB1" 21+50.00 TO "SB1" 29+00.65	B/SD-308	15.00'	VARIES 15.50' TO 10.00'
"SB1" 29+00.65 TO "SB1" 30+00.65	A/SD-308	VARIES 15.00' TO 6.00'	VARIES 10.00' TO 9.00'
"SB1" 30+00.65 TO "SB1" 39+40.78	A/SD-308	6.00'	9.00'
"SB1" 39+40.78 TO "SB1" 40+66.00	A/SD-308	VARIES 6.00' TO 11.70'	VARIES 9.00' TO 0.00'

PLOT DATE: Wednesday, 7/26/2006 1:54:45 PM
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 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
GRADING DETAILS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PRELIMINARY
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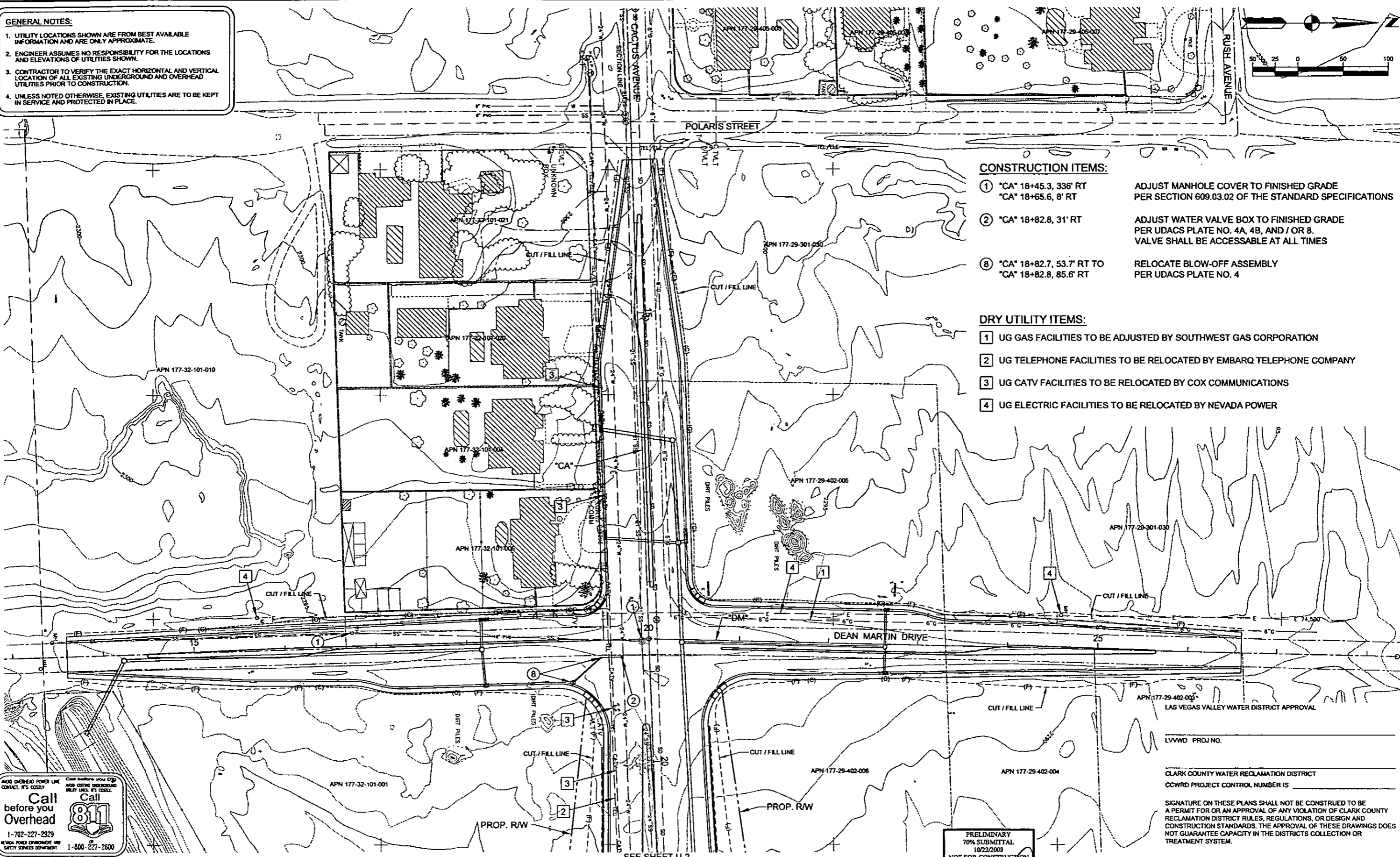
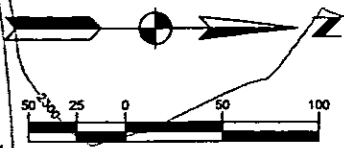
PROJECT No: CB1014 DRAWN BY: GFV
 DESIGNED BY: JSD CHECKED BY: SJD
 APPROVED BY: TDL

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SCALE		SHEET No
HORIZ:	NONE	SD-310
VERT:	NONE	
FIELD BOOK	NONE	
WORK ORDER	2008	

GENERAL NOTES:

1. UTILITY LOCATIONS SHOWN ARE FROM BEST AVAILABLE INFORMATION AND ARE ONLY APPROXIMATE.
2. ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS AND ELEVATIONS OF UTILITIES SHOWN.
3. CONTRACTOR TO VERIFY THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO CONSTRUCTION.
4. UNLESS NOTED OTHERWISE, EXISTING UTILITIES ARE TO BE KEPT IN SERVICE AND PROTECTED IN PLACE.



CONSTRUCTION ITEMS:

- ① "CA" 18+45.3, 336' RT
"CA" 18+65.6, 8' RT
ADJUST MANHOLE COVER TO FINISHED GRADE PER SECTION 609.03.02 OF THE STANDARD SPECIFICATIONS
- ② "CA" 18+82.8, 31' RT
ADJUST WATER VALVE BOX TO FINISHED GRADE PER UDACS PLATE NO. 4A, 4B, AND / OR 8. VALVE SHALL BE ACCESSIBLE AT ALL TIMES
- ⑧ "CA" 18+82.7, 53.7' RT TO
"CA" 18+82.8, 85.6' RT
RELOCATE BLOW-OFF ASSEMBLY PER UDACS PLATE NO. 4

DRY UTILITY ITEMS:

- ① UG GAS FACILITIES TO BE ADJUSTED BY SOUTHWEST GAS CORPORATION
- ② UG TELEPHONE FACILITIES TO BE RELOCATED BY EMBARQ TELEPHONE COMPANY
- ③ UG CATV FACILITIES TO BE RELOCATED BY COX COMMUNICATIONS
- ④ UG ELECTRIC FACILITIES TO BE RELOCATED BY NEVADA POWER

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NEVADA POWER ENVIRONMENT AND SAFETY SERVICES DEPARTMENT 1-800-227-2600

LAS VEGAS VALLEY WATER DISTRICT APPROVAL
LVVWD PROJ NO. _____
CLARK COUNTY WATER RECLAMATION DISTRICT
COWRD PROJECT CONTROL NUMBER IS _____
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS. THE APPROVAL OF THESE DRAWINGS DOES NOT GUARANTEE CAPACITY IN THE DISTRICTS COLLECTION OR TREATMENT SYSTEM.

PRELIMINARY
70% SUBMITTAL
10/22/2008
NOT FOR CONSTRUCTION

PROJECT No:	1014	DRAWN BY:	GFV	SCALE:		SHEET No	
DESIGNED BY:	DJM	CHECKED BY:	TCC	HORIZ:	AS SHOWN		U-1
APPROVED BY:	TDL			VERT:	NONE		
				FIELD BOOK:	NONE		
				WORK ORDER:	2008-		

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500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119
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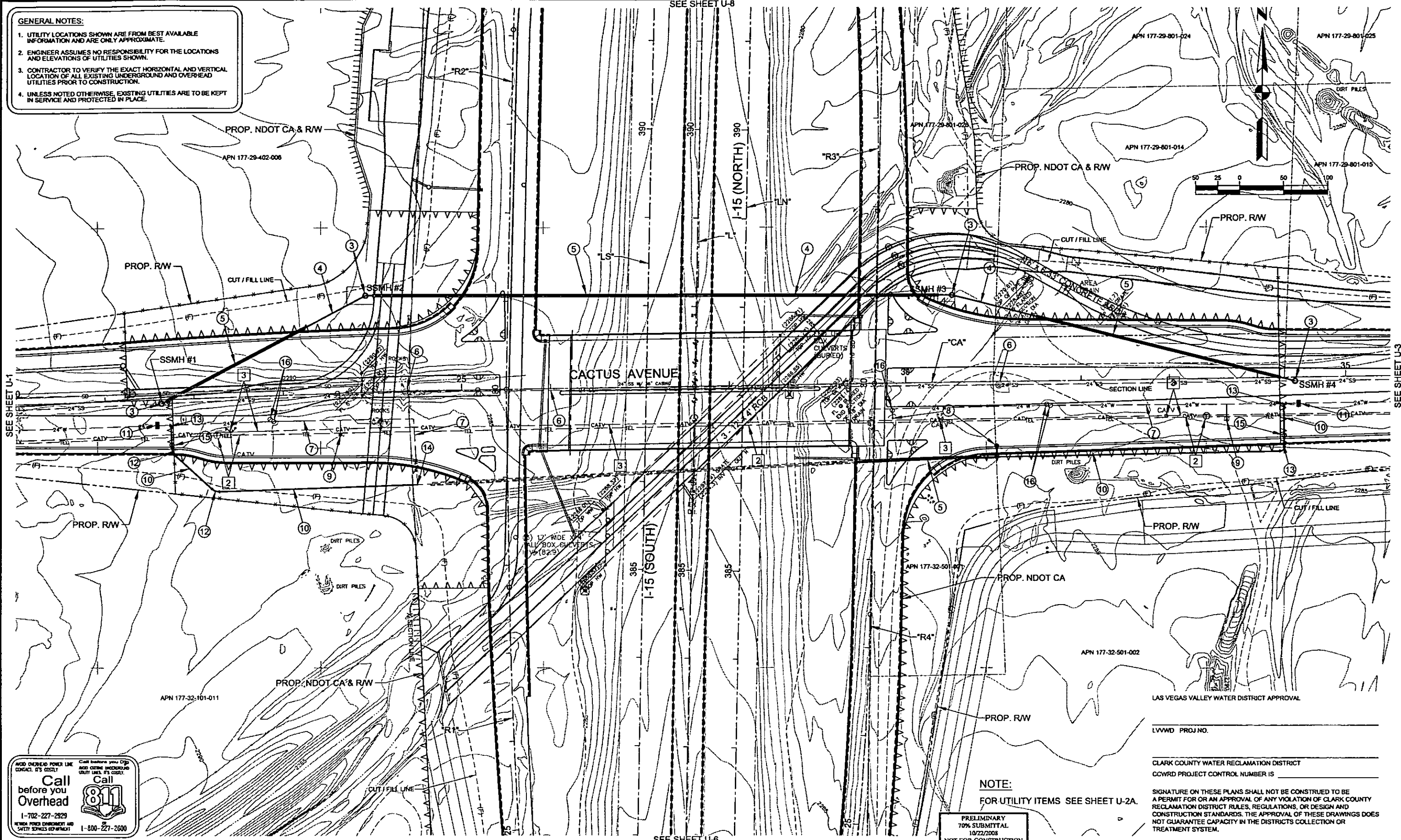


CACTUS AVENUE / I-15 INTERCHANGE
DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
UTILITY PLAN
"CA" 12+00.00 TO "CA" 20+50.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

REV. NO.	DATE	DESCRIPTION	APPROVED

PLOT DATE: Wed 10/22/2008 8:58:33 AM
 FILE NAME: P:\CCTUS\1014\CACTUS\PLANS\PHASE 2\SHEETS\UTILITIES\PLANS\1014-14-1\PHASE 2\U-1.DWG
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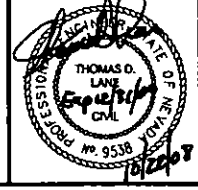
- GENERAL NOTES:**
- UTILITY LOCATIONS SHOWN ARE FROM BEST AVAILABLE INFORMATION AND ARE ONLY APPROXIMATE.
 - ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS AND ELEVATIONS OF UTILITIES SHOWN.
 - CONTRACTOR TO VERIFY THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO CONSTRUCTION.
 - UNLESS NOTED OTHERWISE, EXISTING UTILITIES ARE TO BE KEPT IN SERVICE AND PROTECTED IN PLACE.



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 1-800-227-2600

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PRELIMINARY
 70% SUBMITTAL
 10/22/2008
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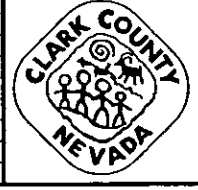


PROJECT No: CB104 DRAWN BY: GFV
 DESIGNED BY: DJM CHECKED BY: TCC
 APPROVED BY: TDL

THE Louis Berger Group, Inc.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89118
 PHONE (702) 736-0032 • FAX (702) 736-0704

SCALE	HORIZ: AS SHOWN	VERT: NONE	FIELD BOOK: NONE	WORK ORDER: 2008-
SHEET No	U-2			

REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
UTILITY PLAN
 "CA" 20+50.00 to "CA" 35+00.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PLOT DATE: Wednesday, July 23, 2008 8:58:11 AM
 FILE NAME: P:\CADD\181-CACTUS\PLANS\PHASE 2\U-2.DWG
 REFERENCE FILES:

SEE SHEET U-8

SEE SHEET U-6

SEE SHEET U-1

SEE SHEET U-3

LAS VEGAS VALLEY WATER DISTRICT APPROVAL

LVVWD PROJ. NO. _____

CLARK COUNTY WATER RECLAMATION DISTRICT
 CCWRD PROJECT CONTROL NUMBER IS _____

NOTE:
 FOR UTILITY ITEMS SEE SHEET U-2A.

SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS. THE APPROVAL OF THESE DRAWINGS DOES NOT GUARANTEE CAPACITY IN THE DISTRICTS COLLECTION OR TREATMENT SYSTEM.

CONSTRUCTION ITEMS:

- ③ "CA" 21+63.2, 4.4' RT INSTALL 60-INCH TYPE I CONCRETE MANHOLE
 "CA" 23+95.1, 109.9' LT PER DCSWCS SD-1
 "CA" 30+54.9, 99.0' LT
 "CA" 34+42.5, 4.3' RT

- ④ "CA" 21+63.2, 4.4' RT TO INSTALL 24-INCH PVC (SDR 35) SANITARY SEWER LINE
 "CA" 23+95.1, 109.9' LT TO
 "CA" 30+54.9, 99.0' LT TO
 "CA" 34+42.5, 4.3' RT

- ⑤ "CA" 21+69.0, 1.5' RT TO INSTALL 36-INCH STEEL CASING
 "CA" 23+26.7, 75.9' LT PER UDACS PLATE NO. 16 FOR WATERLINE AND
 "CA" 24+03.0, 109.7' LT TO PER DCSWCS SD-22 FOR SEWERLINE
 "CA" 30+39.0, 99.3' LT

 "CA" 31+43.4, 75.5' LT TO
 "CA" 34+26.0, 0.0'

- ⑥ "CA" 21+63.2, 4.4' RT TO ABANDON SEWER LINE AND MANHOLE
 "CA" 34+42.5, 4.3' RT PER SECTION 3.14 OF THE DCSWCS

- ⑦ "CA" 21+73.2, 29.2' RT TO ABANDON WATER LINE
 "CA" 24+47.7, 106.6' RT

 "CA" 29+57.3, 88.6' RT TO
 "CA" 34+29.4, 29.6' RT

- ⑧ "CA" 29+84.5, 39.7' RT TO RELOCATE BLOW-OFF ASSEMBLY
 "CA" 31+03.0, 72.9' RT PER UDACS PLATE NO. 4

- ⑨ "CA" 23+62.3, 47.0' RT ABANDON TEST STATION
 "CA" 32+64.1, 46.0' RT

- ⑩ "CA" 21+73.2, 29.2' RT TO INSTALL 24-INCH DIP (CL52) WATER LINE
 "CA" 21+73.2, 60.7' RT TO
 "CA" 22+19.9, 107.0' RT TO
 "CA" 24+47.7, 106.6' RT

 "CA" 29+42.3, 88.6' RT TO
 "CA" 34+29.4, 76.9' RT TO
 "CA" 34+29.4, 29.6' RT

- ⑪ "CA" 21+57.7, 29.2' RT CONSTRUCT 24" LINE STOP WITH CONCRETE
 "CA" 34+41.6, 29.6' RT ANCHOR BLOCK

- ⑫ "CA" 21+73.2, 60.7' RT INSTALL 45" BEND
 "CA" 22+19.9, 107.0' RT

- ⑬ "CA" 21+73.2, 29.2' RT INSTALL 90" BEND
 "CA" 34+29.4, 29.6' RT
 "CA" 34+29.4, 76.9' RT

- ⑭ "CA" 24+47.7, 106.6' RT REMOVE 90" BEND

- ⑮ "CA" 21+73.2, 52.2' RT INSTALL 24" GATE VALVE
 "CA" 34+29.4, 65.8' RT

- ⑯ "CA" 22+84.4, 26.7' RT ABANDON VALVE IN CLOSED POSITION
 "CA" 22+88.3, 29.2' RT PER UDACS
 "CA" 29+84.3, 30.9' RT
 "CA" 31+60.7, 26.4' RT
 "CA" 31+64.5, 27.9' RT

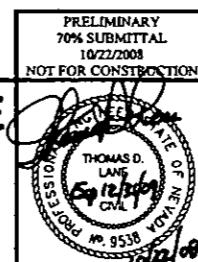
DRY UTILITIES:

- ② UG TELEPHONE FACILITIES TO BE RELOCATED BY EMBARQ TELEPHONE COMPANY
- ③ UG CATV FACILITIES TO BE RELOCATED BY COX COMMUNICATIONS

NOTE:
FOR UTILITY PLAN SEE SHEET U-2.



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
UTILITY PLAN NOTES
 "CA" 20+50.00 to "CA" 35+00.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: CB1014 DRAWN BY: GFV
 DESIGNED BY: DJM CHECKED BY: TCC
 APPROVED BY: TDL

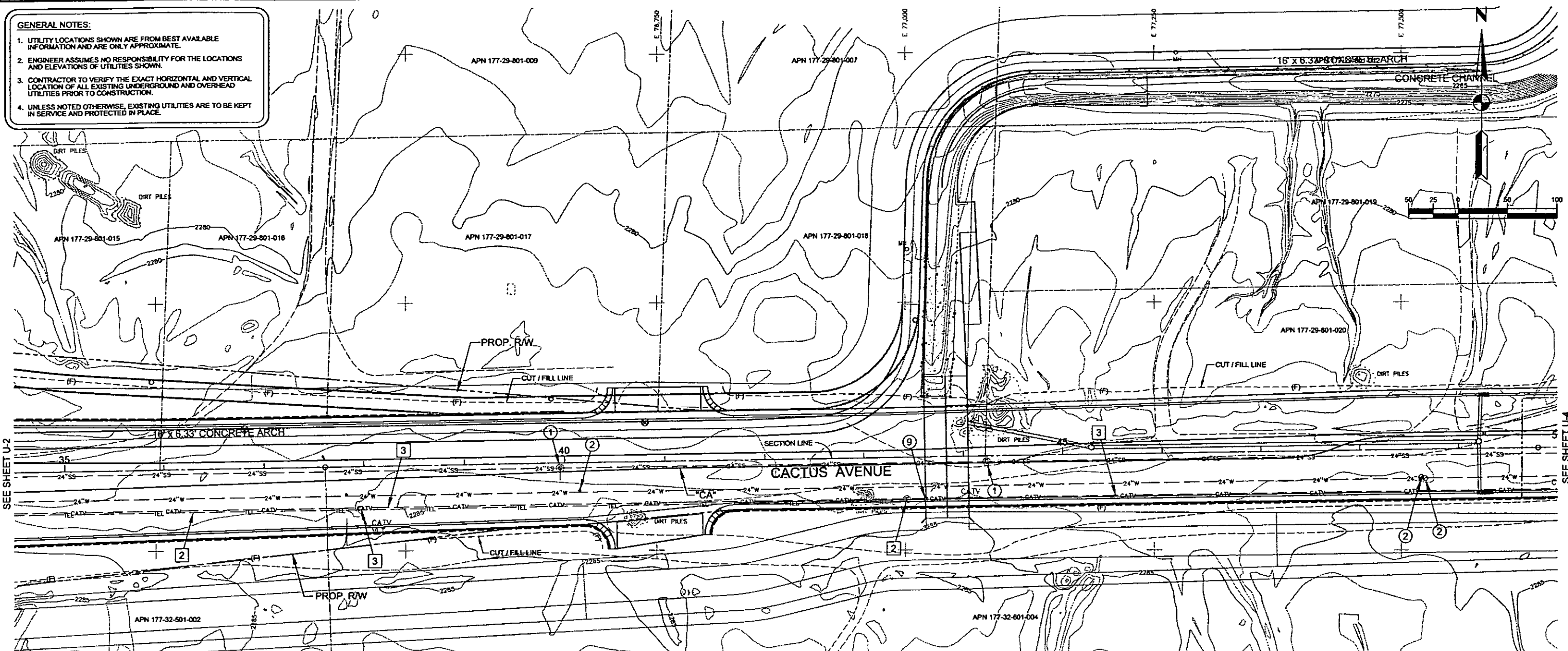
THE Louis Berger Group, INC.
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SCALE	SHEET No
HORIZ: AS SHOWN	U-2A
VERT: NONE	
FIELD BOOK: NONE	
WORK ORDER: 2008-	

PLOT DATE: Wednesday, 10/22/2008 10:28:09 AM
 FILE NAME: P:\CCTUS\PHASE 2\SHEETS\UTILITIES\PLANS\U-1-1-PHASE 2\U-2A.DWG
 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED

- GENERAL NOTES:**
1. UTILITY LOCATIONS SHOWN ARE FROM BEST AVAILABLE INFORMATION AND ARE ONLY APPROXIMATE.
 2. ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS AND ELEVATIONS OF UTILITIES SHOWN.
 3. CONTRACTOR TO VERIFY THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO CONSTRUCTION.
 4. UNLESS NOTED OTHERWISE, EXISTING UTILITIES ARE TO BE KEPT IN SERVICE AND PROTECTED IN PLACE.



CONSTRUCTION ITEMS:

- | | |
|--|--|
| <p>① "CA" 39+95.6, 5.1' RT
"CA" 44+23.2, 5.8' RT</p> <p>② "CA" 40+14.7, 28.4' RT
"CA" 48+62.0, 27.8' RT
"CA" 48+65.7, 29.1' RT</p> <p>⑨ "CA" 43+62.4, 42.3' RT</p> | <p>ADJUST MANHOLE COVER TO FINISHED GRADE PER SECTION 609.03.02 OF THE STANDARD SPECIFICATIONS</p> <p>ADJUST WATER VALVE BOX TO FINISHED GRADE PER UDACS PLATE NO. 4A, 4B AND / OR 8. VALVES SHALL BE ACCESSABLE AT ALL TIMES.</p> <p>ABANDON TEST STATION</p> |
|--|--|

DRY UTILITY ITEMS:

- ② UG TELEPHONE FACILITIES TO BE RELOCATED BY EMBARQ TELEPHONE COMPANY
- ③ UG CATV FACILITIES TO BE RELOCATED BY COX COMMUNICATIONS

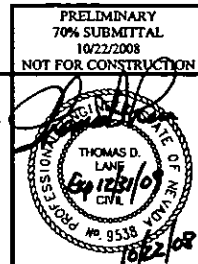


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 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



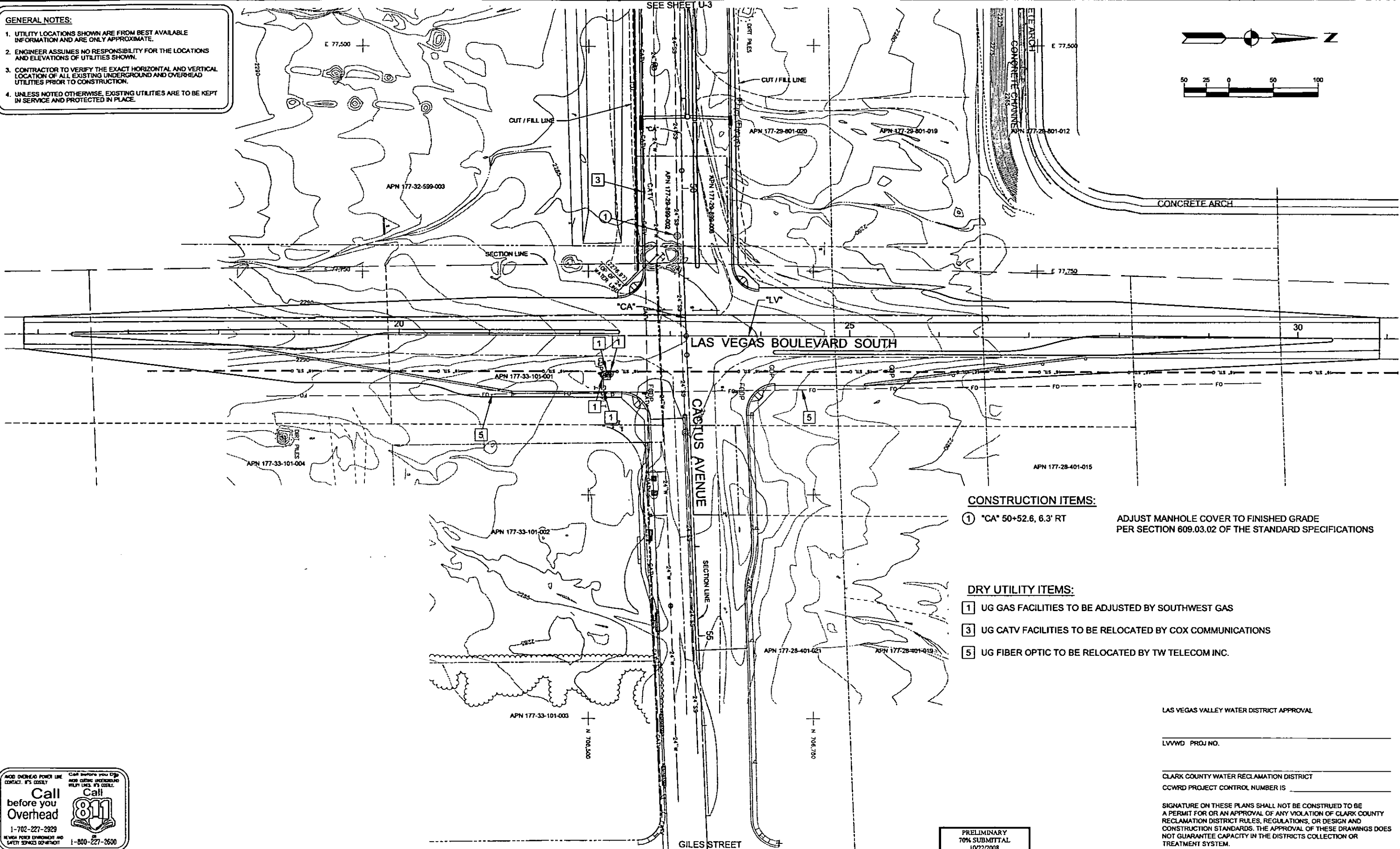
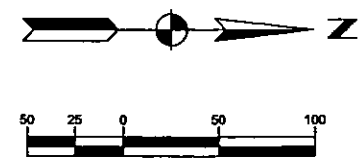
CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
UTILITY PLAN
 "CA" 35+00.00 to "CA" 49+50.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: CB1014 DRAWN BY: GFV
 DESIGNED BY: DJM CHECKED BY: TOC
 APPROVED BY: TDL
THE Louis Berger Group, INC.
 500 AMBRO COURT, SUITE 100 *LAS VEGAS, NEVADA *89119
 PHONE (702) 736-6032 *FAX (702) 736-0704

SCALE	SHEET No
HORIZ: AS SHOWN	U-3
VERT: NONE	
FIELD BOOK: NONE	
WORK ORDER: 2008-	

- GENERAL NOTES:**
1. UTILITY LOCATIONS SHOWN ARE FROM BEST AVAILABLE INFORMATION AND ARE ONLY APPROXIMATE.
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CONSTRUCTION ITEMS:

- ① "CA" 50+52.6, 6.3' RT ADJUST MANHOLE COVER TO FINISHED GRADE PER SECTION 609.03.02 OF THE STANDARD SPECIFICATIONS

DRY UTILITY ITEMS:

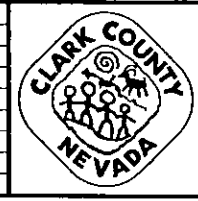
- ① UG GAS FACILITIES TO BE ADJUSTED BY SOUTHWEST GAS
- ③ UG CATV FACILITIES TO BE RELOCATED BY COX COMMUNICATIONS
- ⑤ UG FIBER OPTIC TO BE RELOCATED BY TW TELECOM INC.

LAS VEGAS VALLEY WATER DISTRICT APPROVAL

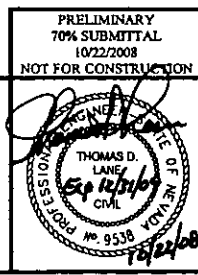
LVVWD PROJ. NO. _____

CLARK COUNTY WATER RECLAMATION DISTRICT
CCWRD PROJECT CONTROL NUMBER IS _____

SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS. THE APPROVAL OF THESE DRAWINGS DOES NOT GUARANTEE CAPACITY IN THE DISTRICTS COLLECTION OR TREATMENT SYSTEM.



CACTUS AVENUE / I-15 INTERCHANGE
DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
UTILITY PLAN
"CA" 49+50.00 TO "CA" 57+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



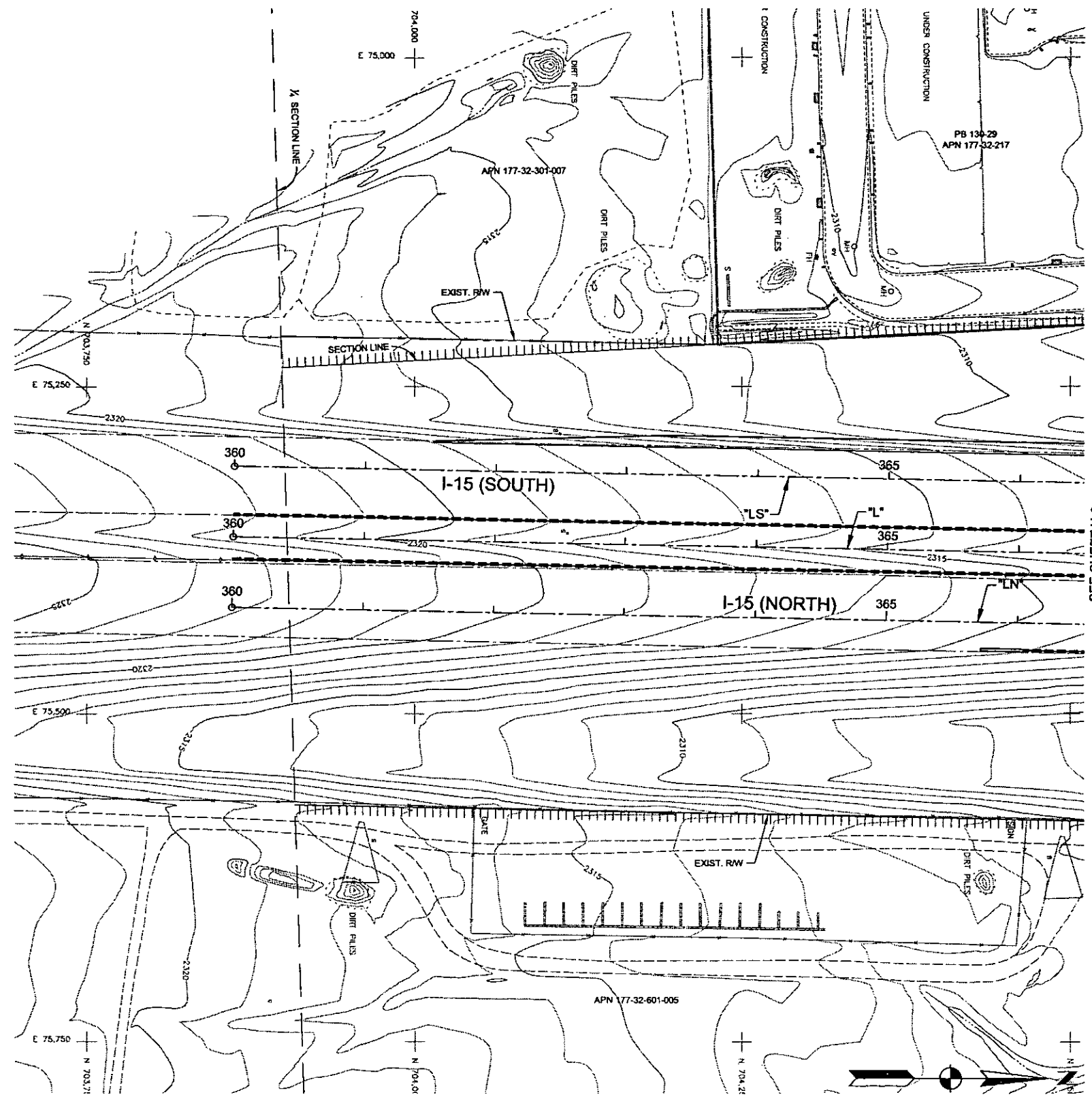
PROJECT No: CB1014 DRAWN BY: GFV
DESIGNED BY: DJM CHECKED BY: TCC
APPROVED BY: TDL
THE Louis Berger Group, INC.
600 AMIGO COURT, SUITE 100 LAS VEGAS, NEVADA 89119
PHONE (702) 730-0032 *FAX (702) 730-0704

SCALE	SHEET No
HORIZ: AS SHOWN	U-4
VERT: NONE	
FIELD BOOK NONE	
WORK ORDER 2008-	

PLOT DATE: Wednesday, July 23, 2008 10:02:36 AM
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 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED

- GENERAL NOTES:**
1. UTILITY LOCATIONS SHOWN ARE FROM BEST AVAILABLE INFORMATION AND ARE ONLY APPROXIMATE.
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Call before you Overhead
 1-702-227-2929
 NEVADA POWER ENVIRONMENT AND SAFETY SERVICES DEPARTMENT
 1-800-227-2600

Call before you Dig
 1-811
 NEVADA POWER ENVIRONMENT AND SAFETY SERVICES DEPARTMENT
 1-800-227-2600



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
UTILITY PLAN
 "L" 360+00.00 to "L" 366+00.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

THOMAS D. LANE
 CIVIL ENGINEER
 10/22/08

PROJECT No: 1014 DRAWN BY: GFV
 DESIGNED BY: TCC CHECKED BY: LSF
 APPROVED BY: TDL

THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 *LAS VEGAS, NEVADA *89119
 PHONE (702) 736-6832 *FAX (702) 736-0704

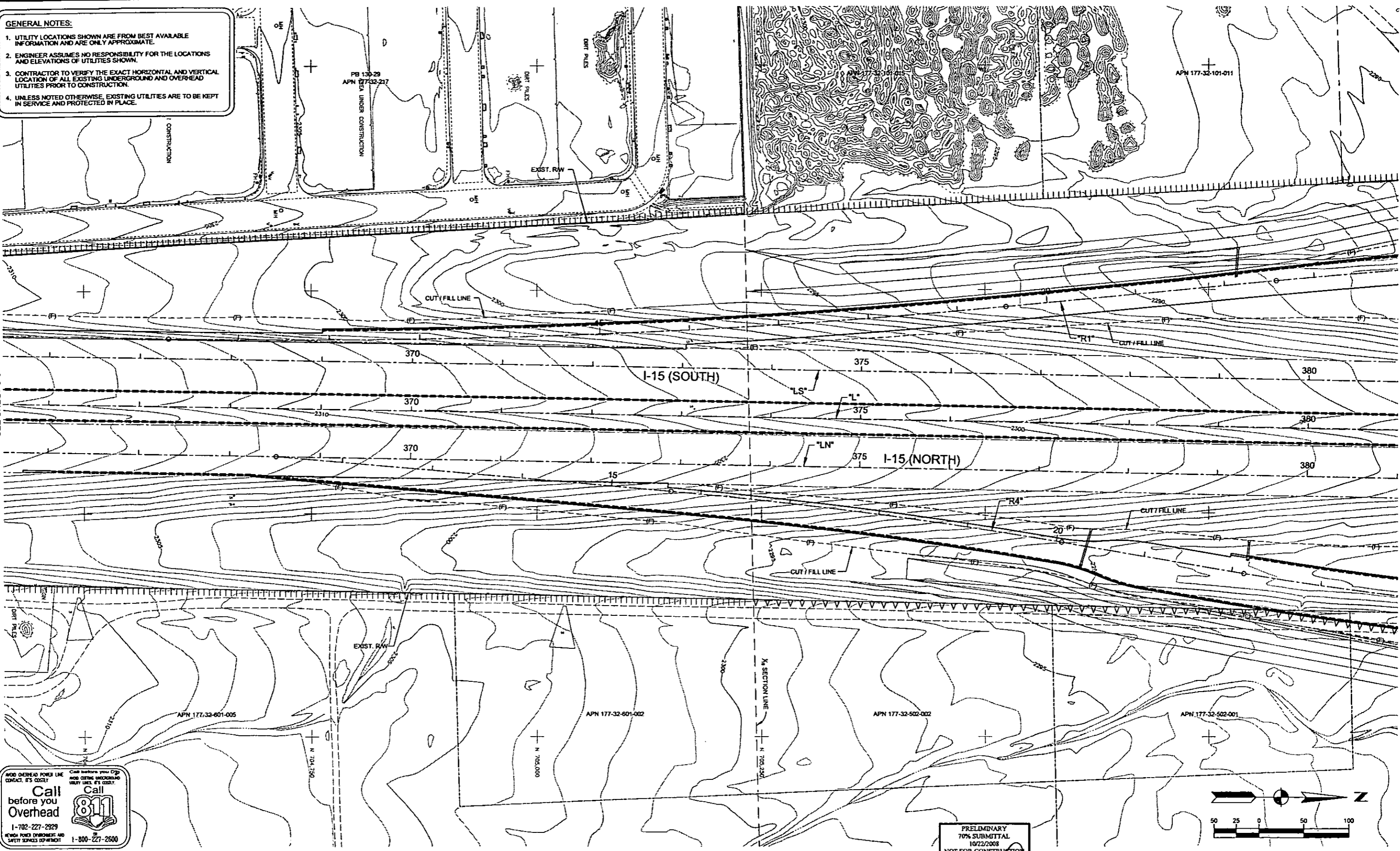
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HORIZ:	AS SHOWN	
VERT:	NONE	
FIELD BOOK:	NONE	
WORK ORDER:	2008-	

PLOT DATE: Wednesday, 10/23/2008 10:03:08 AM
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 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED

GENERAL NOTES:

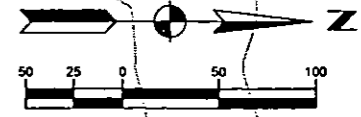
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SEE SHEET U-5

SEE SHEET U-7

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NEVADA POWER DEPARTMENT AND SAFETY SERVICES DEPARTMENT
1-800-227-2600



PLOT DATE: Wed 10/21/08 10:01:57 AM
FILE NAME: P:\CADD\DWG\114\CACTUS\PHASE 2\U-6\U-6.DWG
REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
UTILITY PLAN
"L"366+00.00 to "L" 380+50.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

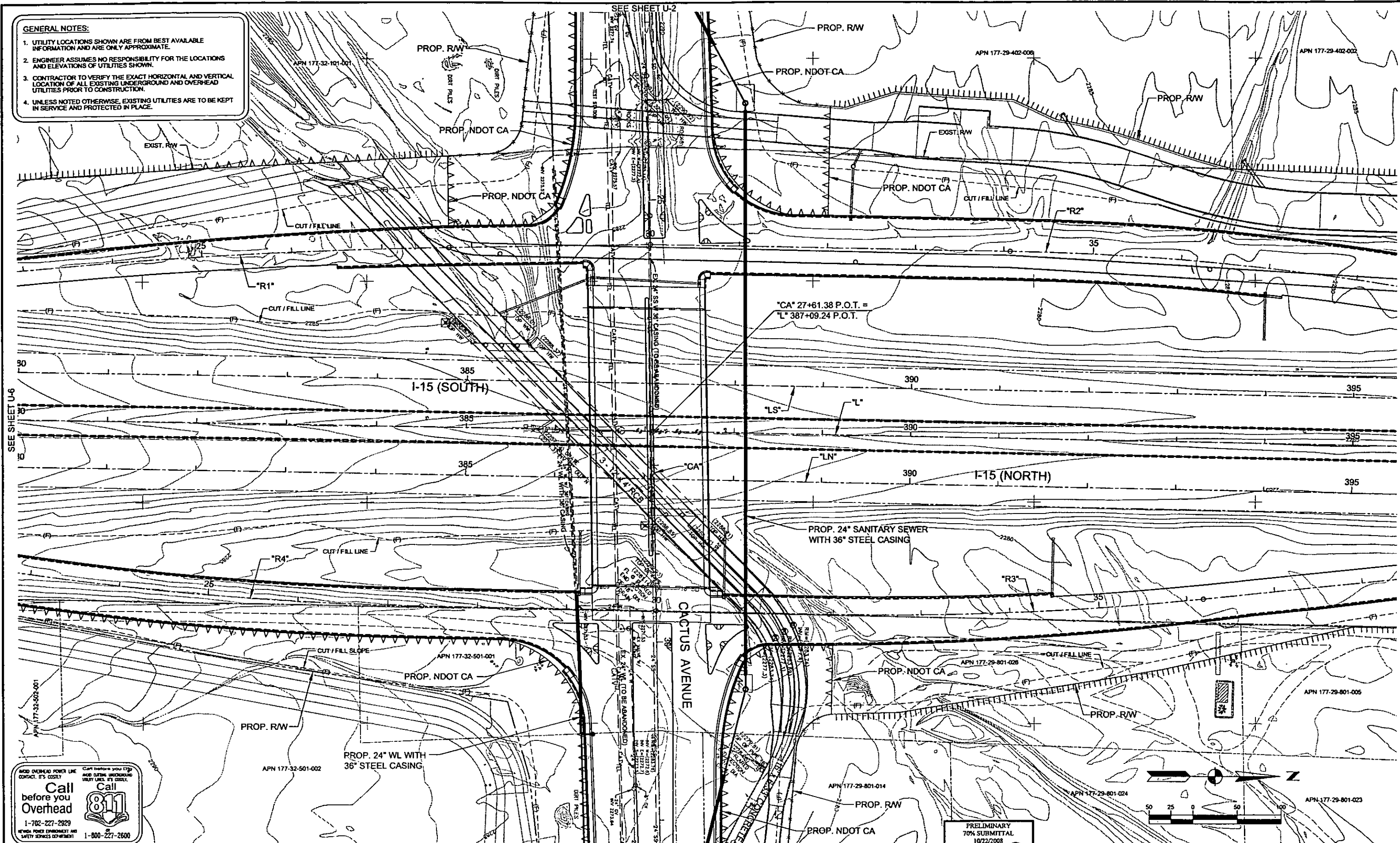
PRELIMINARY
70% SUBMITTAL
10/22/2008
NOT FOR CONSTRUCTION

PROJECT No: 1014 DRAWN BY: GPV
DESIGNED BY: DJM CHECKED BY: TCC
APPROVED BY: TDL

THE Louis Berger Group, INC.
500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119
PHONE (702) 736-6932 • FAX (702) 736-0704

SCALE		SHEET No
HORIZ:	AS SHOWN	U-6
VERT:	NONE	
FIELD BOOK:	NONE	
WORK ORDER:	2008-	

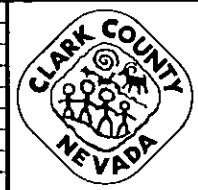
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PLOT DATE: Wednesday, 7/26/2006 10:55:34 AM
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 REFERENCE FILES:

Call before you Overhead
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REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
UTILITY PLAN
 "L" 380+50.00 to "L" 395+00.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

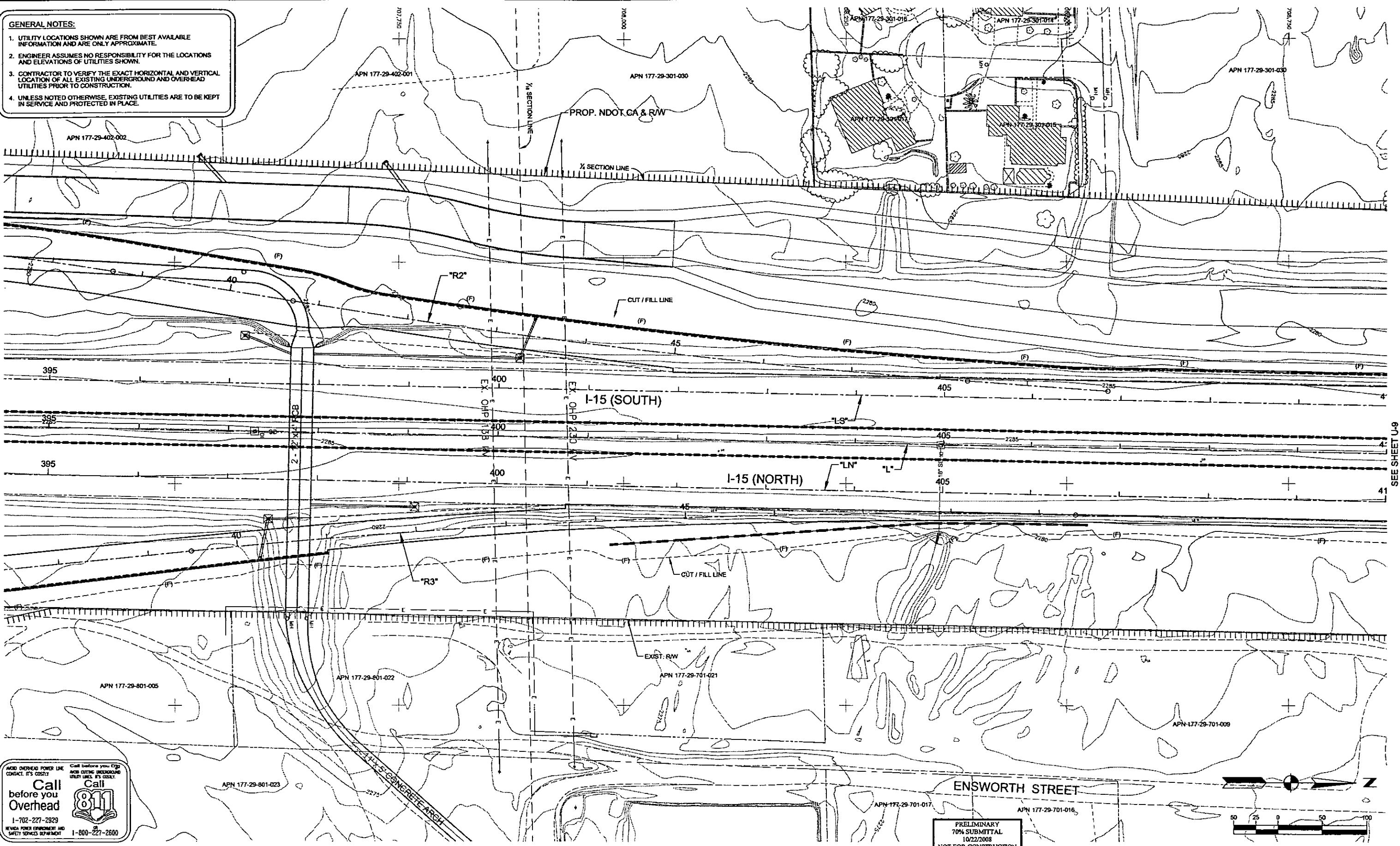
PROJECT No: 1014 DRAWN BY: GFV
 DESIGNED BY: DJM CHECKED BY: TCC
 APPROVED BY: TDL

THE Louis Berger Group, Inc.
 500 AMIGO COURT, SUITE 100 LAS VEGAS, NEVADA 89119
 PHONE (702) 736-8832 * FAX (702) 736-0704

SCALE	SHEET No
HORIZ: AS SHOWN	U-7
VERT: NONE	
FIELD BOOK: NONE	
WORK ORDER: 2008-	

GENERAL NOTES:

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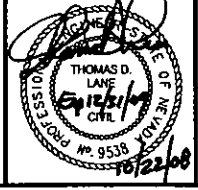


SEE SHEET U-7

SEE SHEET U-9

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 1-702-227-2929
 NEVADA POWER EMPLOYMENT AND SAFETY SERVICES DEPARTMENT
 1-800-227-2600

PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION



PROJECT No: 1014 DRAWN BY: GFV
 DESIGNED BY: OJM CHECKED BY: TCC
 APPROVED BY: TDL

THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 LAS VEGAS, NEVADA 89119
 PHONE (702) 736-8832 * FAX (702) 736-0704

SCALE	HORIZ: AS SHOWN	VERT: NONE	FIELD BOOK: NONE	WORK ORDER: 2008-	SHEET No: U-8
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CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
UTILITY PLAN
 "L" 395+00.00 to "L" 409+50.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

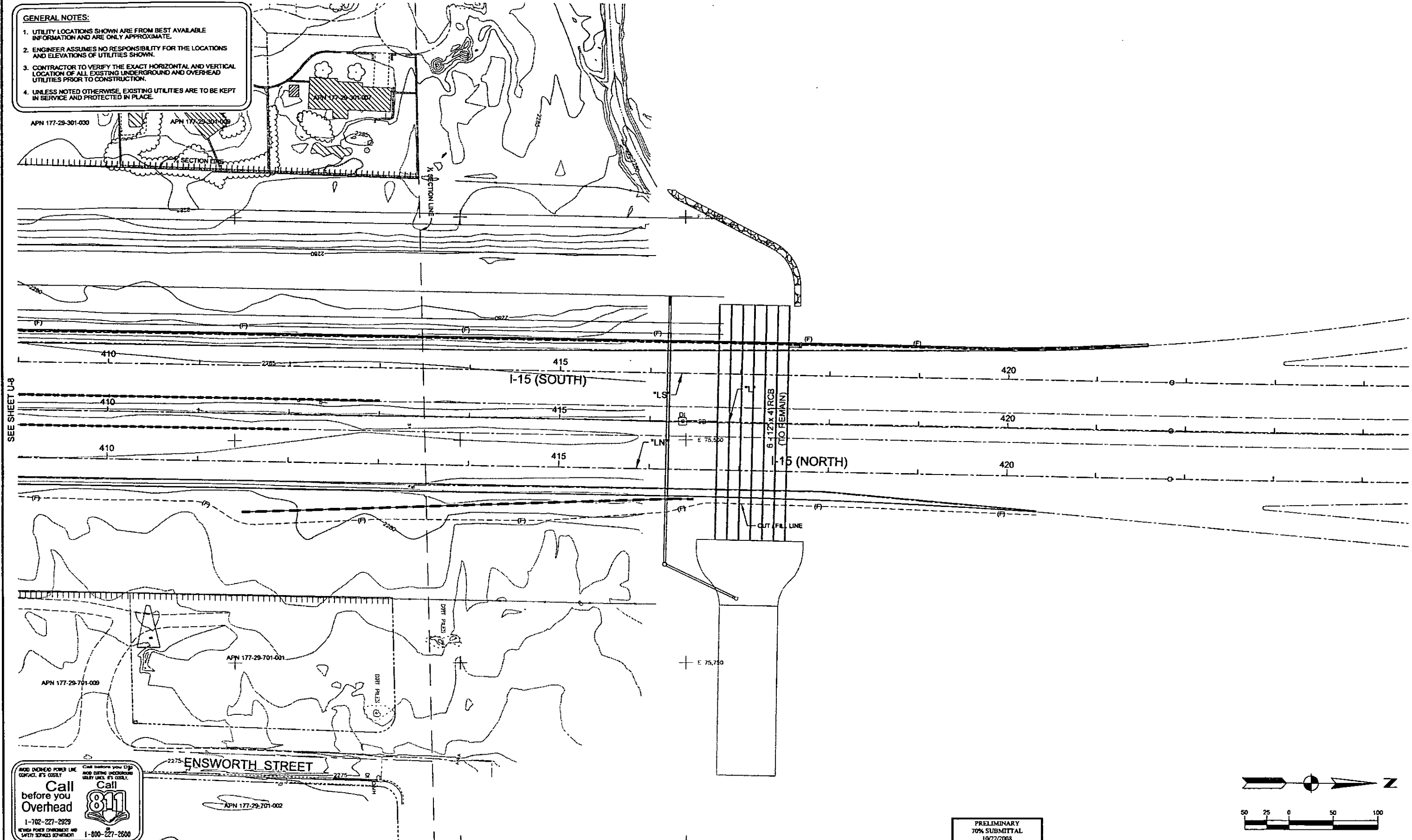
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PLOT DATE: Wednesday, July 23, 2008 10:55:38 AM
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GENERAL NOTES:

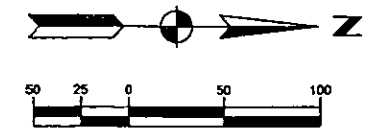
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APN 177-29-301-030 APN 177-29-301-009



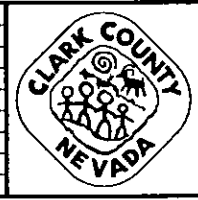
SEE SHEET U-8

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PLOT DATE: Wednesday, July 28, 2009 10:06:16 AM
 FILE NAME: P:\CADD\2008\1014\CACTUS\PLANS\PHASE 2\SUBMITTALS\U-9\PHASE 2\U-9.PLT
 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



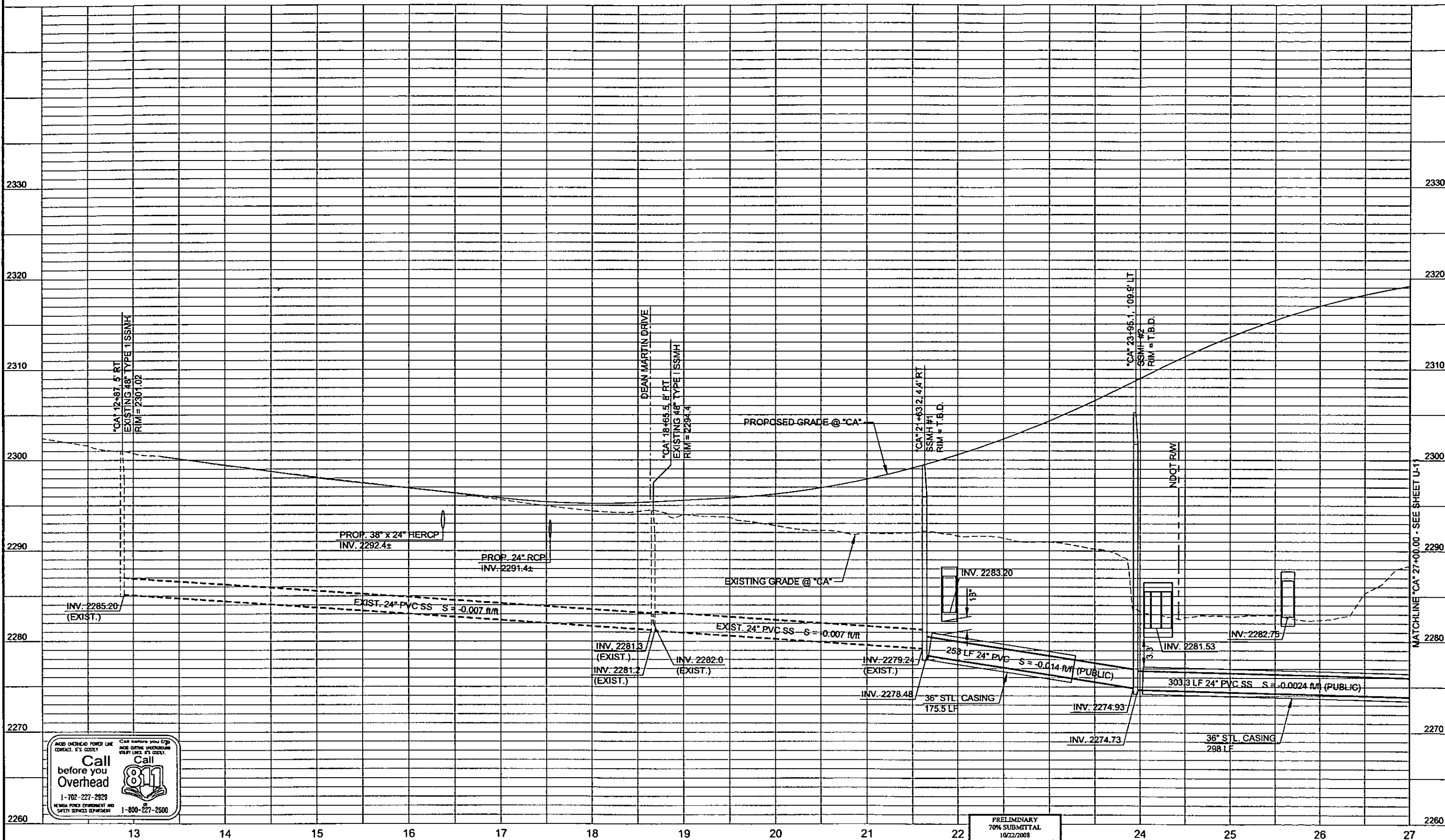
CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
UTILITY PLAN
 "L" 409+50.00 to "L" 424+00.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

PROJECT No: 1014 DRAWN BY: GFV
 DESIGNED BY: DJM CHECKED BY: TCC
 APPROVED BY: TDL
THE Louis Berger Group, INC.
 800 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89118
 PHONE (702) 736-8832 • FAX (702) 736-0704

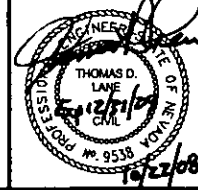
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HORIZ:	AS SHOWN	U-9
VERT:	NONE	
FIELD BOOK	NONE	
WORK ORDER	2008-	

PLOT DATE: Wednesday, 12/22/2008 10:08:51 AM
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 1-800-227-2500

PRELIMINARY
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 10/22/2008
 NOT FOR CONSTRUCTION



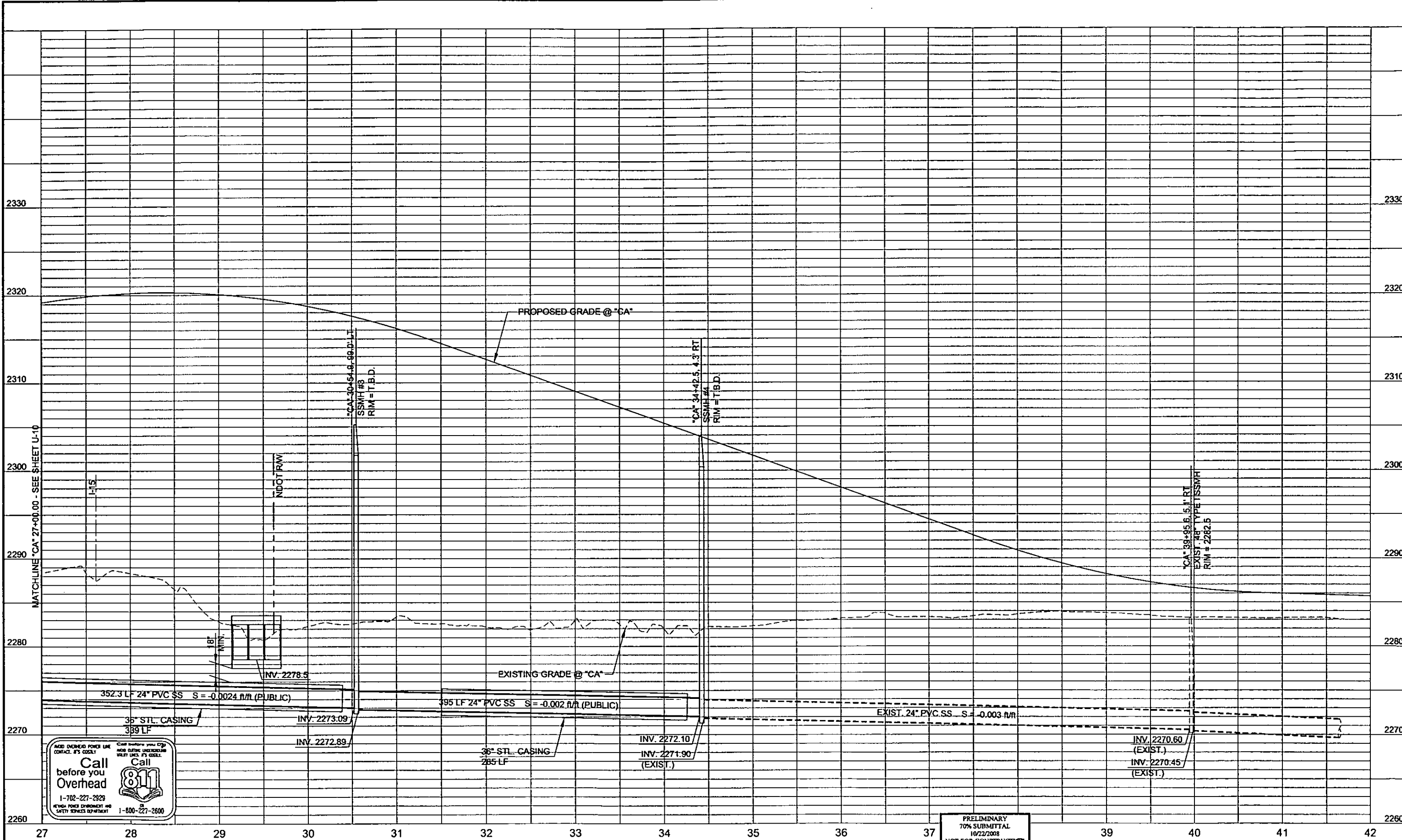
PROJECT No: CB1014 DRAWN BY: GFV
 DESIGNED BY: DJM CHECKED BY: TCC
 APPROVED BY: TDL
THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 LAS VEGAS, NEVADA 89119
 PHONE (702) 736-0032 FAX (702) 736-0704

SCALE
 HORIZ: AS SHOWN
 VERT: AS SHOWN
 FIELD BOOK: NONE
 WORK ORDER: 2008-
 SHEET No: **U-10**

REV. NO.	DATE	DESCRIPTION	APPROVED

CLARK COUNTY NEVADA
CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
UTILITY PROFILE
 "CA" 13+50.00 to "CA" 27+00.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PLOT DATE: 7/24/2008 10:07:25 AM
 FILE NAME: P:\CCTV\1011-CACTUS\PLANS\PHASE 2\SSHEETS\UTILITY\PLANS\1011-1PHASE 2\U-11.DWG
 REFERENCE FILES:



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 1-800-227-2600

Call before you dig
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PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

THOMAS D. LANE
 CIVIL ENGINEER
 No. 9538

PROJECT No: CB1014 DRAWN BY: GFV
 DESIGNED BY: DJM CHECKED BY: TCC
 APPROVED BY: TDL

THE Louis Berger Group, Inc.
 600 AMIGO COURT, SUITE 100 LAS VEGAS, NEVADA 89119
 PHONE (702) 736-8832 FAX (702) 736-0704

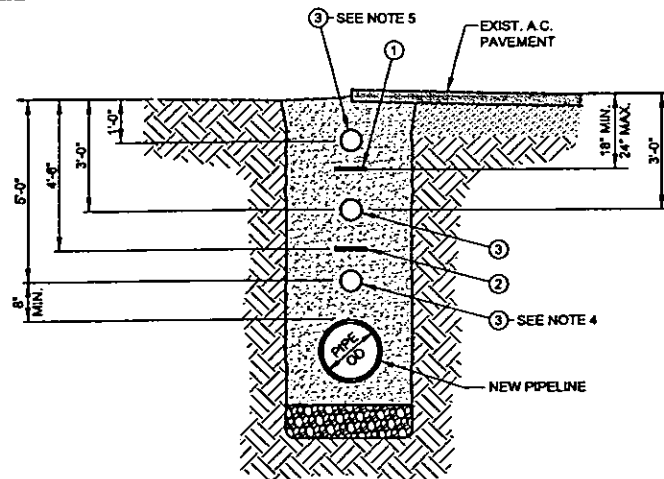
SCALE
 HORIZ: AS SHOWN
 VERT: AS SHOWN
 FIELD BOOK: NONE
 WORK ORDER: 2008

SHEET No
U-11



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
UTILITY PROFILE
 "CA" 27+50.00 to "CA" 42+00.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

REV. NO.	DATE	DESCRIPTION	APPROVED



- ① PIPE LOCATOR RIBBON - 3" WIDTH
- ② PIPE LOCATOR RIBBON - 3" WIDTH (INSTALLED WHEN COVER OF NEW PIPELINE IS 7'-0" OR GRATER)
- ③ LOCATOR BALL - SEE NOTES

NOTES:

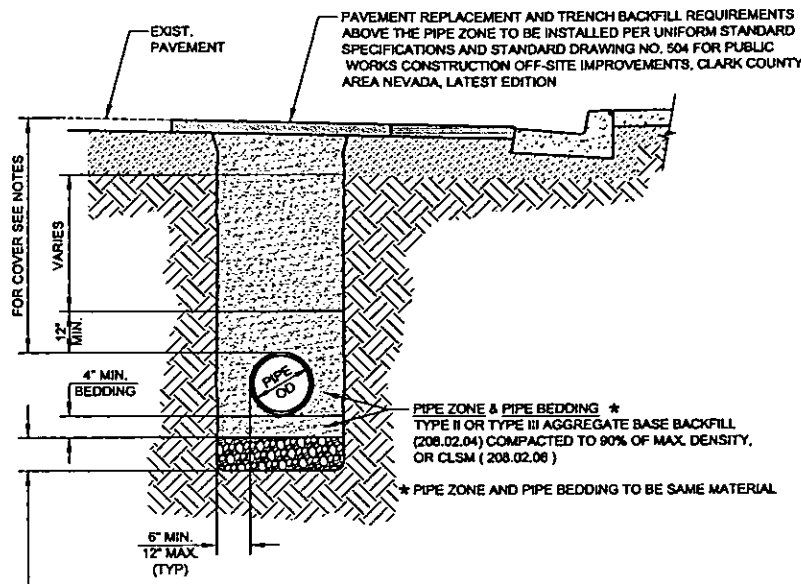
1. CENTER PIPE LOCATOR RIBBON IN TRENCH AND PLACE OVER ENTIRE LENGTH OF ALL TYPES, SIZES AND LOCATIONS OF WATER MAINS.
2. LOCATOR BALLS REQUIRED AT ALL HORIZONTAL BENDS OR DEFLECTIONS, CASING ENDS AND EVERY 400 FEET OF PIPELINE.
3. IN A.C. PAVEMENT EXISTS, INSTALL LOCATOR BALL AT 3'-0" (TYP).
4. IF A CUT TO FINISH GRADE IS ANTICIPATED INSTALL LOCATOR BALLS AT BOTH 3'-0" AND 5'-0" (TYP).
5. IF A FILL TO FINISH GRADE IS ANTICIPATED INSTALL LOCATOR BALLS AT BOTH 1'-0" AND 3'-0" (TYP).

PIPE LOCATOR RIBBON AND LOCATOR BALL INSTALLATION

NOT TO SCALE

PL02-8 021405 (UDACS PLATE NO. 27)

1
UD-1



PAVEMENT REPLACEMENT AND TRENCH BACKFILL REQUIREMENTS ABOVE THE PIPE ZONE TO BE INSTALLED PER UNIFORM STANDARD SPECIFICATIONS AND STANDARD DRAWING NO. 504 FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA, LATEST EDITION

EXIST. PAVEMENT

FOR COVER SEE NOTES

VARIES

12" MIN.

4" MIN. BEDDING

PIPE ZONE & PIPE BEDDING * TYPE II OR TYPE III AGGREGATE BASE BACKFILL (208.02.04) COMPACTED TO 90% OF MAX. DENSITY, OR CLSM (208.02.06)

* PIPE ZONE AND PIPE BEDDING TO BE SAME MATERIAL

6" MIN. 12" MAX. (TYP)

IN AREAS OF EXCESSIVE GROUND WATER OR POOR SUBGRADE MATERIAL, USE DRAIN BACKFILL SECTION (208.02.05) TO A MINIMUM DEPTH OF 18" FOR STABILIZATION. INSTALL AND COMPACT AS DIRECTED BY THE ENGINEER.

NOTES:

- 42" MIN. COVER FOR PIPE 8" AND SMALLER.
- 48" MIN. COVER FOR PIPE GREATER THAN 8" AND LESS THAN 24".
- 60" MIN. COVER FOR PIPE 24" AND GREATER.

NOTE: FOR TRENCH SECTION NOTES SEE UDACS PLATE NO. 6E

TRENCH BACKFILL - PAVED AREAS

NOT TO SCALE

(UDACS PLATE NO. 6C)

2
UD-1

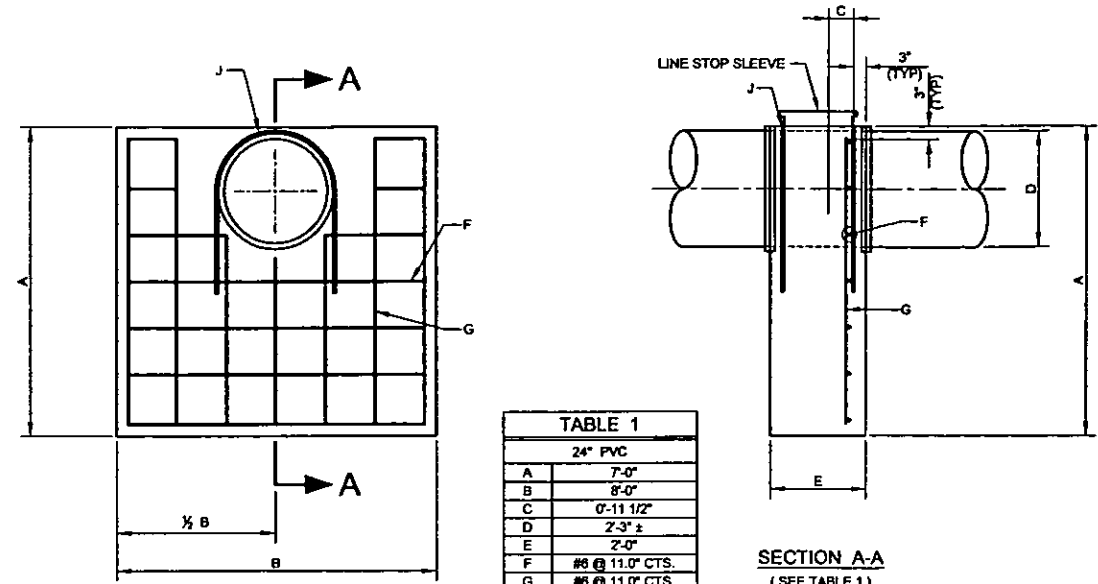


TABLE 1

24" PVC

A	7'-0"
B	8'-0"
C	0'-11 1/2"
D	2'-3" ±
E	2'-0"
F	#6 @ 11.0" CTS.
G	#6 @ 11.0" CTS.
H	#6 x 5'-0" L.G.
J	#6 x 3'-6" L.G.

DETAIL "A"
(SEE TABLE 1)

NOTE:

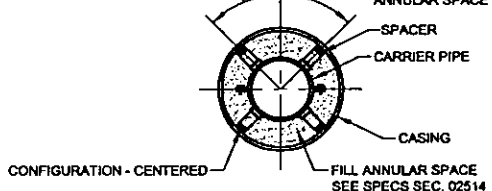
PLACE CONCRETE AGAINST UNDISTURBED EARTH ON PRESSURE FACE AND BOTTOM OF ANCHOR BLOCK. EXCESS EXCAVATION UNDER ANCHOR BLOCK OR PRESSURE FACE SHALL BE REPLACED WITH UNREINFORCED CONCRETE HAVING A COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.

THRUST RING ANCHOR BLOCK

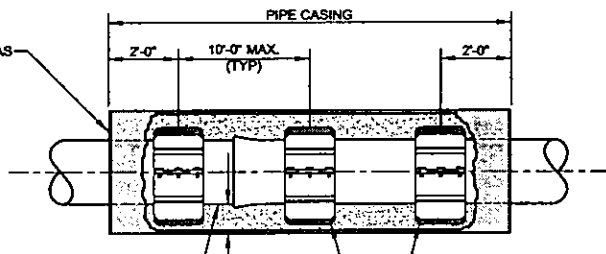
NOT TO SCALE

4
UD-1

ANGLES TO BE CONSTANT AROUND ENTIRE CIRCUMFERENCE OF THE PIPE. NUMBER OF SPACERS PER MANUFACTURER'S SPECIFICATIONS



CROSS - SECTION



PIPE CASING

2'-0" 10'-0" MAX. (TYP) 2'-0"

PVC, DI, OR MLC CARRIER PIPE

* CASING THICKNESS (TO BE DETERMINED BY ENGINEER) NOT TO EXCEED DEFLECTION OF PIPE

PLACEMENT OF SPACERS ON CARRIER PIPE PER MANUFACTURER'S SPECIFICATIONS

NOTES:

1. MLC PIPE JOINTS INSIDE PIPE CASING TO BE WELDED. PVC AND DI PIPE JOINTS INSIDE PIPE CASING TO BE RESTRAINED (TYP).
2. INTERIOR OF CASING TO BE GROUND SMOOTH AND LUBRICATED FOR SPACER INSTALLATION.
3. ALL CONDUITS AND FITTINGS INSTALLED WITHIN CASING IN ACCORDANCE WITH SPECS SEC 16134.
4. ENTIRE PIPE CASING TO BE INSTALLED LEVEL (6") UNLESS OTHERWISE SHOWN ON DRAWINGS. SEE SPECS SEC 02514 FOR FURTHER REQUIREMENTS.

DI CARRIER PIPE

8" SPACER WIDTH	
PIPE SIZE	CASING ID
12"	24"
16"	30"
18"	30"
20"	36"
24"	42"
30"	48"
36"	54"

MLC CARRIER PIPE

8" SPACER WIDTH		12" SPACER WIDTH	
PIPE SIZE	CASING ID	PIPE SIZE	CASING ID
24"	42"	42"	60"
30"	48"	48"	66"
36"	54"	54"	72"
		60"	78"
		66"	84"
		72"	90"

CASING ASSEMBLY DETAIL

NOT TO SCALE

PL09-3

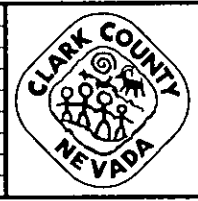
030508

3
UD-1

LWVD XX-XXXX DATE

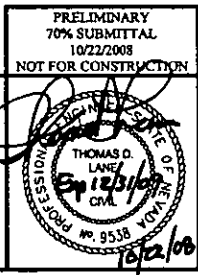
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REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
WATER DETAILS

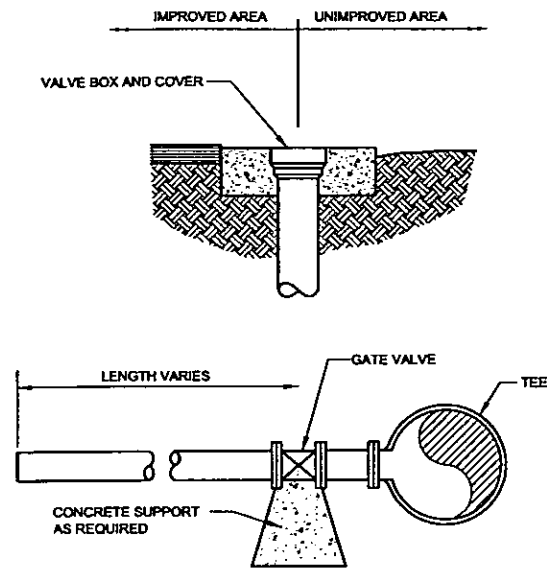
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: CB1014 DRAWN BY: GPY
DESIGNED BY: DJM CHECKED BY: TCC
APPROVED BY: TDL

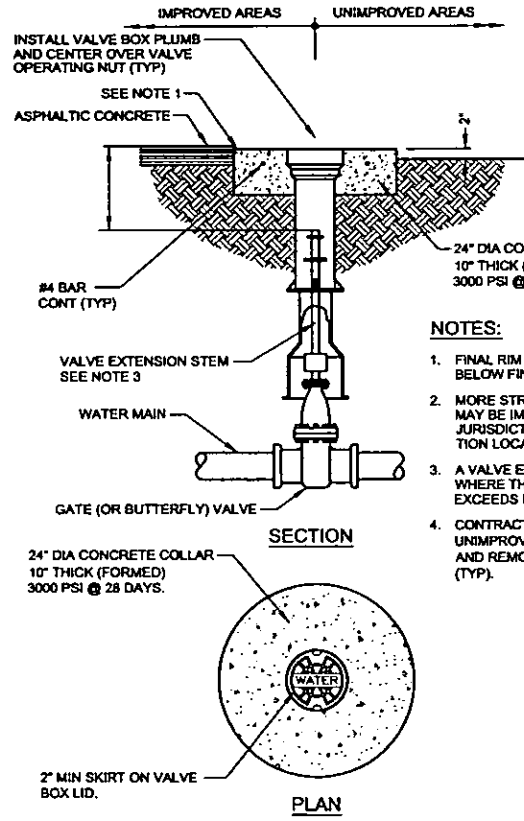
THE Louis Berger Group, INC.
500 AMIGO COURT, SUITE 100 *LAS VEGAS, NEVADA *89119
PHONE (702) 736-0532 *FAX (702) 736-0704

SCALE		SHEET No
HORIZ:	NONE	UD-1
VERT:	NONE	
FIELD BOOK:	NONE	
WORK ORDER:	2008-	



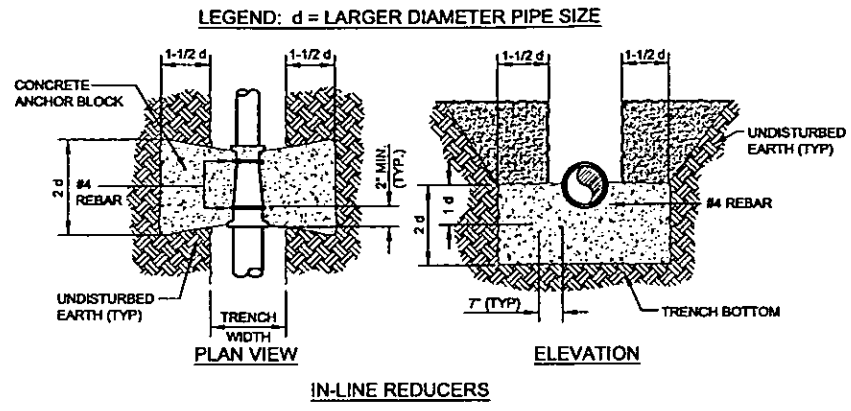
- NOTES:**
1. INSTALL VALVES CLOSED. OPEN VALVES DURING TEST.
 2. COAT AND WRAP OUTLET, VALVE AND PLUG. SEE SPECS SEC 03481 AND 09965.

VALVED OUTLET DETAIL 1
NOT TO SCALE (UD-2)



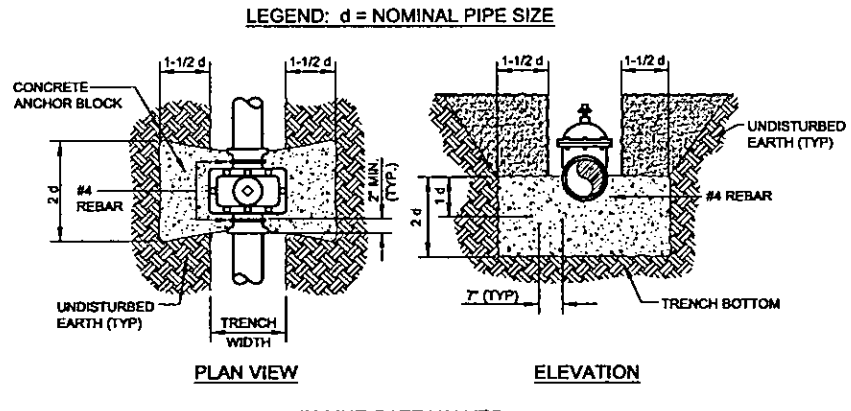
- NOTES:**
1. FINAL RIM ELEVATION TO BE 1/8" TO 1/4" BELOW FINAL STREET GRADE.
 2. MORE STRINGENT INSTALLATION REQUIREMENTS MAY BE IMPOSED BY THE ENTITY HAVING THE JURISDICTION OVER THE VALVE BOX INSTALLATION LOCATION.
 3. A VALVE EXTENSION STEM SHALL BE PROVIDED WHERE THE DEPTH TO THE OPERATING NUT EXCEEDS FIVE (5) FEET.
 4. CONTRACTOR TO FORM CONCRETE COLLAR IN UNIMPROVED AREAS WITH SONOTUBE OR EQUAL AND REMOVE PRIOR TO BACKFILL INSTALLATION (TYP).

VALVE BOX INSTALLATION 2
NOT TO SCALE (UDACS PLATE NO. 8) (UD-2)



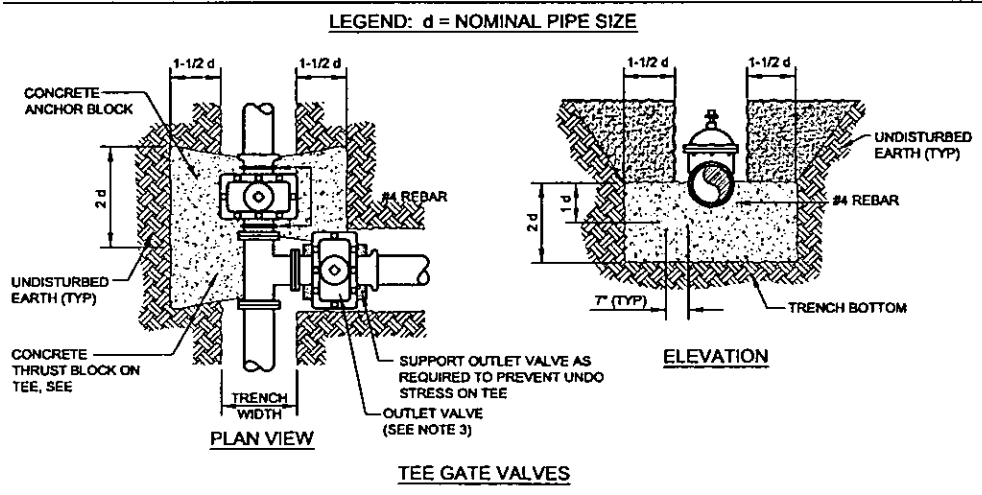
LEGEND: d = LARGER DIAMETER PIPE SIZE

IN-LINE REDUCERS



LEGEND: d = NOMINAL PIPE SIZE

IN-LINE GATE VALVES

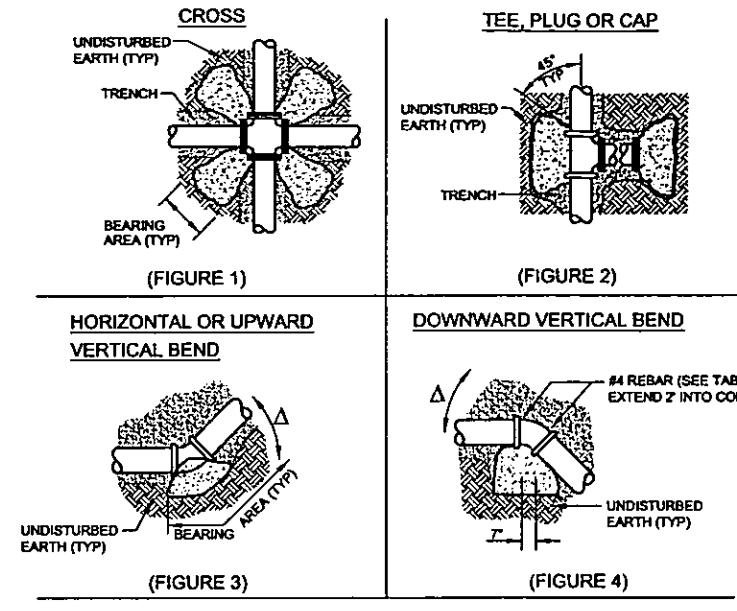


LEGEND: d = NOMINAL PIPE SIZE

TEE GATE VALVES

- NOTES:**
1. ALL CONCRETE SHALL BE 3000 PSI MINIMUM 28 DAYS COMPRESSIVE STRENGTH
 2. ALL VALVES, FITTINGS AND APPURTENANCES SHALL BE COATED AND WRAPPED IN ACCORDANCE WITH SECTION 3, PROTECTIVE COATINGS.
 3. EXPOSED (NOT ENCASED IN CONCRETE) REBAR SHALL BE WRAPPED IN 10 MIL DIELECTRIC TAPE.

ANCHOR BLOCK DETAILS FOR REDUCERS AND GATE VALVES 3
NOT TO SCALE (UDACS PLATE NO. 3) (UD-2)



NOTE:
COAT AND WRAP ALL METAL SURFACES IN ACCORDANCE WITH SECTION 3, PROTECTIVE COATINGS. EXPOSED (NOT ENCASED IN CONCRETE) REBAR SHALL BE WRAPPED IN 10 MIL DIELECTRIC TAPE. ALL CONCRETE SHALL BE 3000 PSI MINIMUM, 28 DAYS COMPRESSIVE STRENGTH. CONCRETE IS TO BE PLACED AGAINST UNDISTURBED EARTH. TABLE BELOW DENOTES MINIMUM BEARING AREA OR VOLUME OF THRUST BLOCK. SPECIAL DESIGN CALCULATIONS ARE TO BE SUBMITTED FOR APPROVAL IF ALLOWABLE SOIL BEARING CAPACITY IS LESS THAN 3000 PSF. ALL VERTICAL SURFACES NOT BEARING AGAINST UNDISTURBED EARTH SHALL BE FORMED.

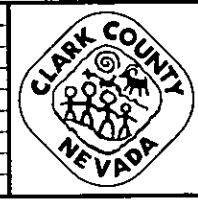
PIPE ID	BEARING AREA IN SQ FT						CONCRETE YDS		
	FIGURE 1	FIGURE 2	FIGURE 3, Δ			FIGURE 4, Δ			
4"	1	2	90"	45"	22 1/2"	11 1/4"	45"	22 1/2"	11 1/4"
6"	2	2	2	2	1	1	1.0	0.5	0.5
8"	2	3	4	2	1	1	1.5	1.0	0.5
10"	3	5	7	4	2	1	3.0	1.5	1.0
12"	4	8	11	6	3	2	4.0	2.5	1.5
16"	6	11	15	8	4	2	6.0	3.0	1.5
18"	10	20	28	15	8	4	10.5 *	6.0	3.0
20"	13	25	35	19	10	5	13.5 *	7.5	3.5
24"	16	31	44	24	12	6	16.0 **	9.0	4.5
24"	22	44	63	34	17	9	23.5 **	12.5 *	6.5

NOTE:
USE OF THRUST BLOCKS FOR PIPE DIAMETERS GREATER THAN 12" REQUIRES PRIOR DISTRICT APPROVAL AND WILL BE EVALUATED ON A CASE BY CASE BASIS.

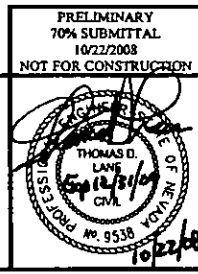
THRUST BLOCK INSTALLATION 4
NOT TO SCALE (UDACS PLATE NO. 5) (UD-2)

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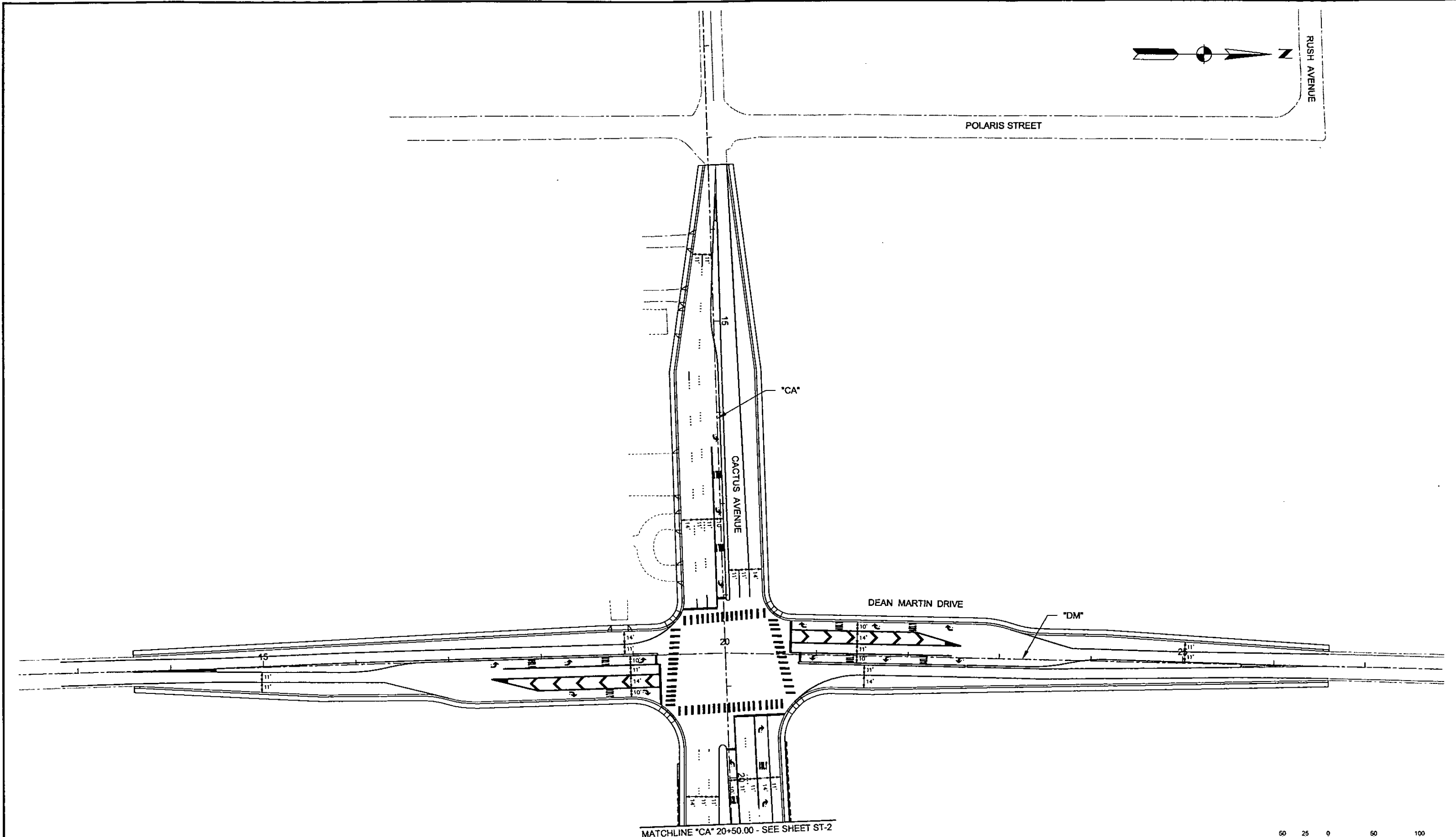
CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
WATER DETAILS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



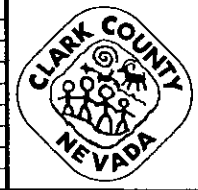
PRELIMINARY 70% SUBMITTAL 10/22/2008 NOT FOR CONSTRUCTION
 PROJECT No: CB1014 DRAWN BY: GFV
 DESIGNED BY: DJM CHECKED BY: TCC
 APPROVED BY: TDL
THE Louis Berger Group, Inc.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119
 PHONE (702) 736-6632 • FAX (702) 736-0704

SCALE	SHEET No
HORIZ: NONE	UD-2
VERT: NONE	
FIELD BOOK: NONE	
WORK ORDER: 2008-	

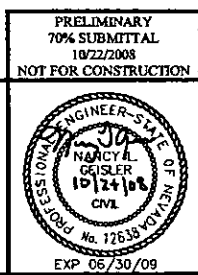
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 REFERENCE FILES:



REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
STRIPING PLAN
 "CA" 12+00.00 TO "CA" 20+50.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

PROJECT No: 1014 DRAWN BY: ELC
 DESIGNED BY: NLG CHECKED BY: CAB
 APPROVED BY: TDL

THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119
 PHONE (702) 736-6632 • FAX (702) 736-0704

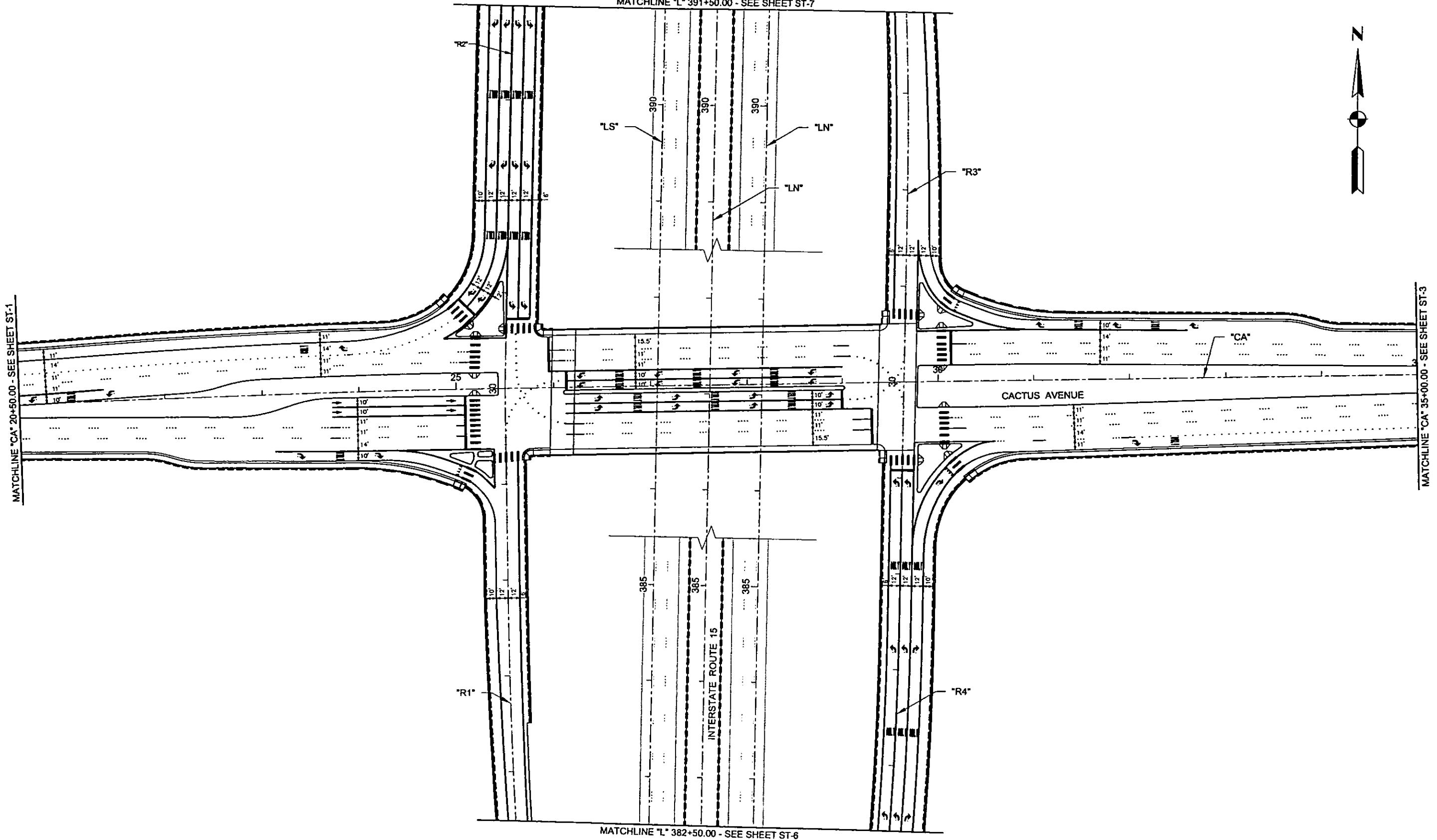
SCALE		SHEET No
HORIZ:	AS SHOWN	ST-1
VERT:	NONE	
FIELD BOOK	NONE	
WORK ORDER	2008-	

PLOT DATE: Monday, October 17, 2005 4:33:24 PM
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MATCHLINE "L" 391+50.00 - SEE SHEET ST-7

MATCHLINE "CA" 20+50.00 - SEE SHEET ST-1

MATCHLINE "CA" 35+00.00 - SEE SHEET ST-3



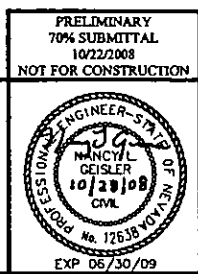
MATCHLINE "L" 382+50.00 - SEE SHEET ST-6



REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
STRIPING PLAN
 "CA" 20+50.00 to "CA" 35+00.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

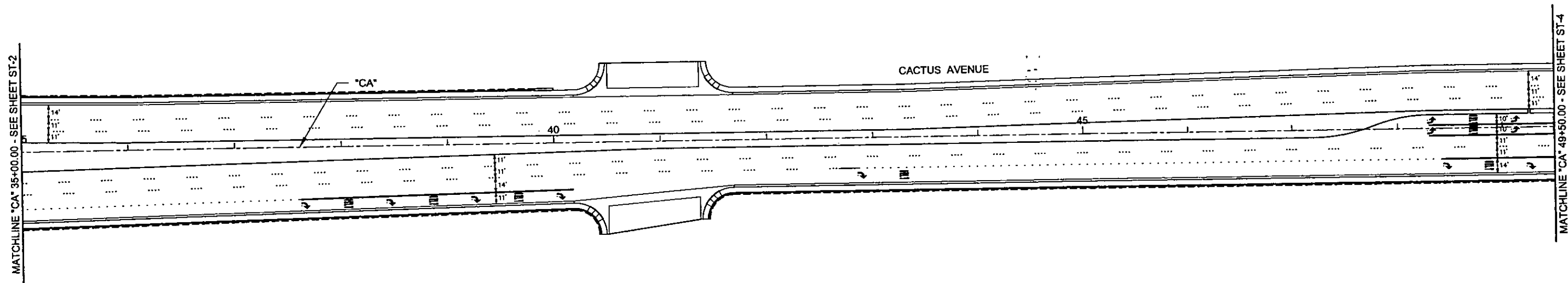
PROJECT No: 1014 DRAWN BY: ELC
 DESIGNED BY: NLG CHECKED BY: CAB
 APPROVED BY: TDL

THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89118
 PHONE (702) 736-8832 • FAX (702) 736-0704

SCALE	
HORIZ:	AS SHOWN
VERT:	NONE
FIELD BOOK:	NONE
WORK ORDER:	2008-

SHEET No
ST-2

CACTUS AVENUE / I-15 INTERCHANGE



MATCHLINE "CA" 35+00.00 - SEE SHEET ST-2

MATCHLINE "CA" 49+50.00 - SEE SHEET ST-4

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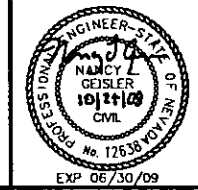


REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
STRIPING PLAN
 "CA" 35+00.00 to "CA" 49+50.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

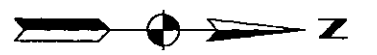
PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION



PROJECT No: 1014 DRAWN BY: ELC
 DESIGNED BY: NLG CHECKED BY: CAB
 APPROVED BY: TDL
THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119
 PHONE (702) 736-0832 • FAX (702) 736-0704

SCALE	
HORIZ:	AS SHOWN
VERT:	NONE
FIELD BOOK	NONE
WORK ORDER	2008-

SHEET No
ST-3



MATCHLINE 49+50.00 - SEE SHEET ST-3

MATCHLINE "LV" 16+00.00 - SEE INSET 'A' BELOW

MATCHLINE "LV" 31+00.00 - SEE INSET 'B' BELOW

20 LAS VEGAS BOULEVARD SOUTH

"CA"

"LV"

30

MATCHLINE "LV" 16+00.00 - SEE ABOVE

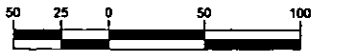
MATCHLINE "LV" 31+00.00 - SEE ABOVE

LAS VEGAS BOULEVARD SOUTH

LAS VEGAS BOULEVARD SOUTH

GILES STREET

CACTUS AVENUE



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REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE

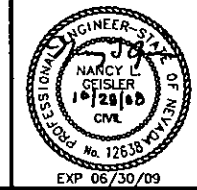
DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD

STRIPING PLAN

"CA" 49+50.00 TO "CA" 57+00.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION



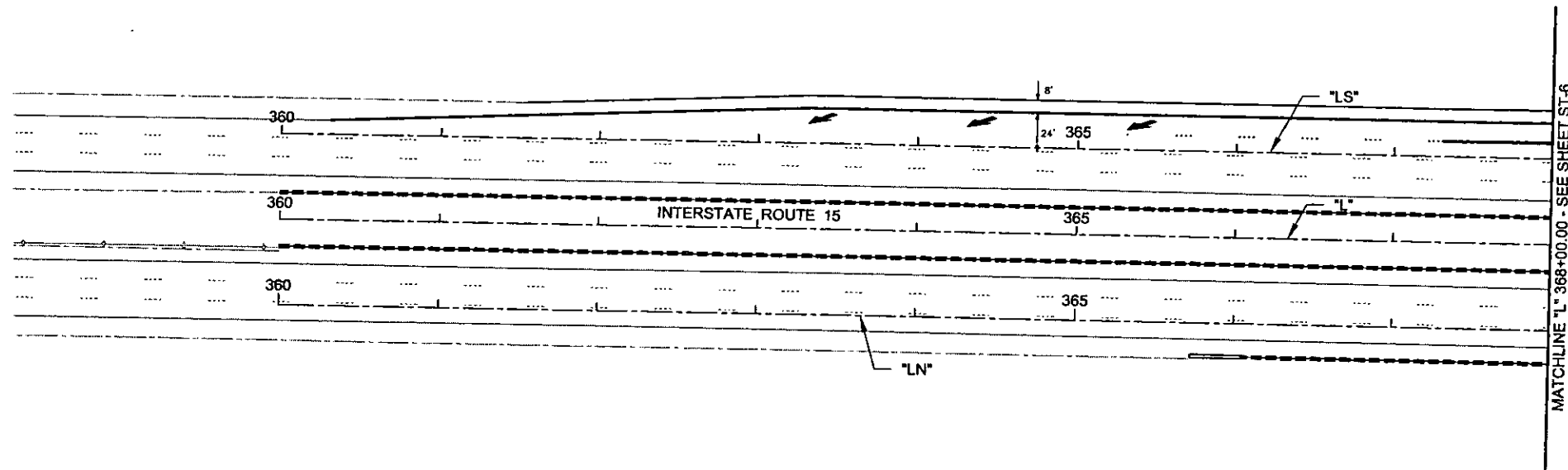
PROJECT No: 1014 DRAWN BY: GFV
 DESIGNED BY: NLG CHECKED BY: CAB
 APPROVED BY: TDL



THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89118
 PHONE (702) 736-6032 • FAX (702) 736-0704

SCALE
 HORIZ: AS SHOWN
 VERT: NONE
 FIELD BOOK: NONE
 WORK ORDER: 2008-

SHEET No
ST-4



PLOT DATE: Thursday, 10/22/2008 10:51:49 AM
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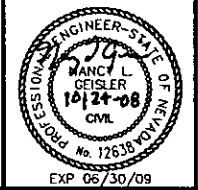


REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
STRIPING PLAN
 "L" 360+00.00 to "L" 368+00.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

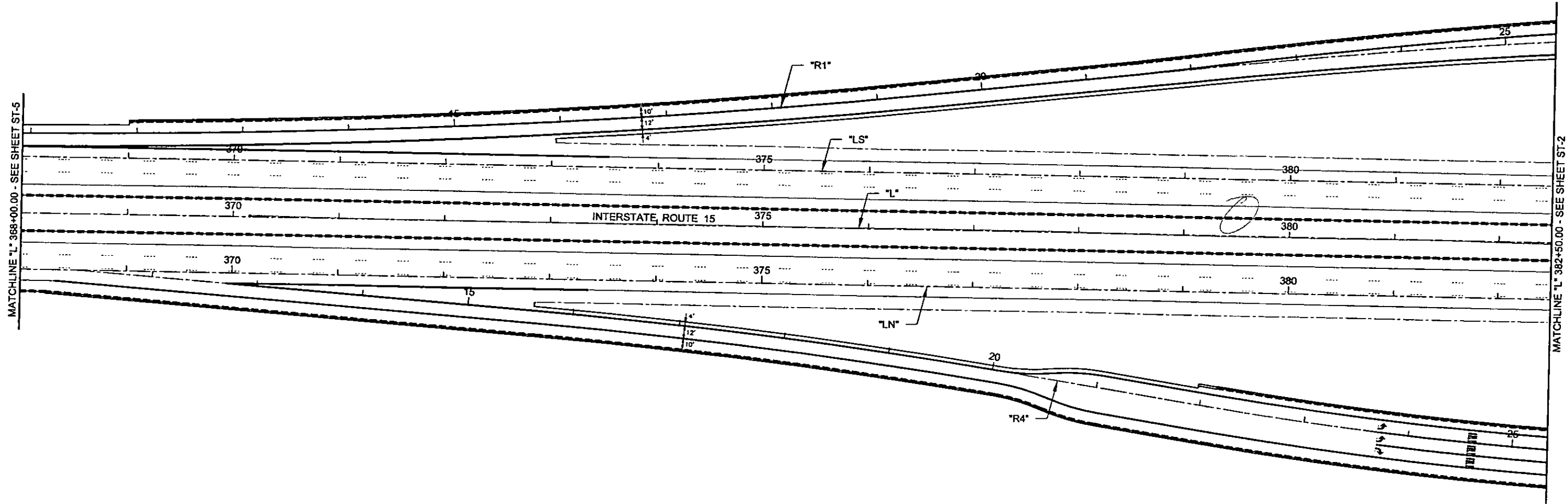
PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION



PROJECT No: 1014 DRAWN BY: GFV
 DESIGNED BY: NGL CHECKED BY: CAB
 APPROVED BY: TDL
THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 *LAS VEGAS, NEVADA *89119
 PHONE (702) 736-0632 *FAX (702) 736-0704

SCALE
 HORIZ: AS SHOWN
 VERT: NONE
 FIELD BOOK: NONE
 WORK ORDER: 2008-

SHEET No
ST-5



PLOT DATE: Thursday, July 24, 2008 10:52:37 AM
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REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
STRIPING PLAN
 "L"368+00.00 to "L" 382+50.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

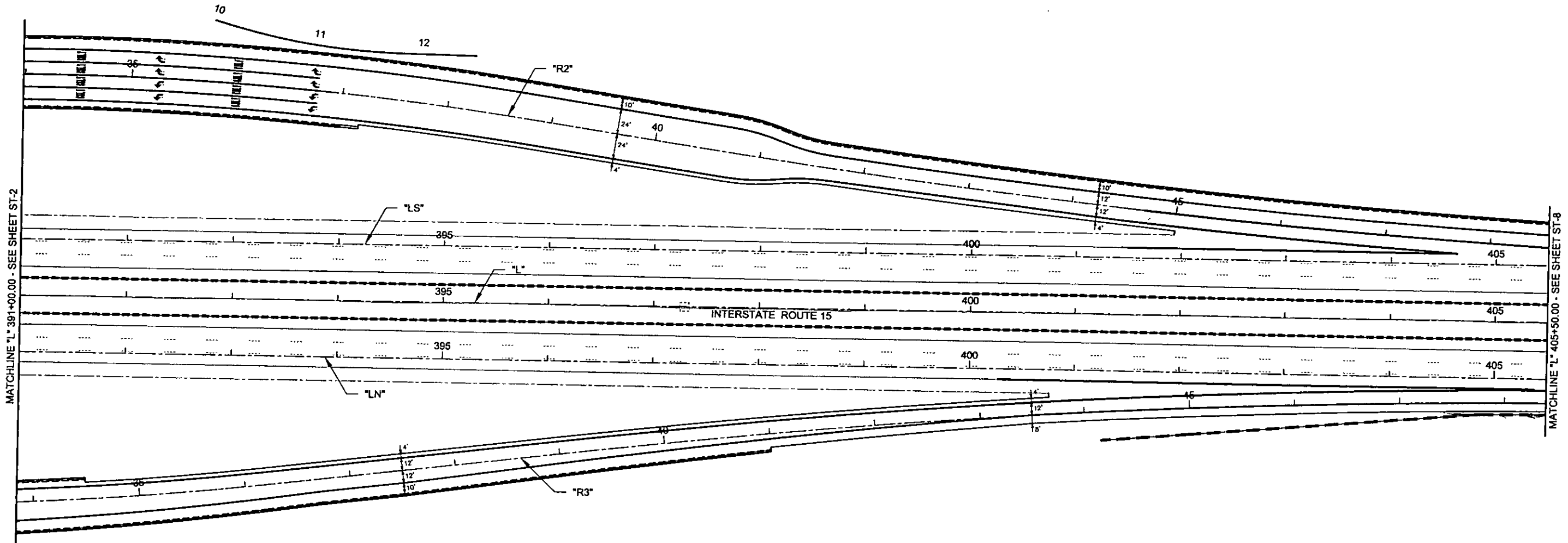
PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

PROJECT No: 1014 DRAWN BY: ELC
 DESIGNED BY: NLG CHECKED BY: CAB
 APPROVED BY: TDL

THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119
 PHONE (702) 736-0632 • FAX (702) 736-0704

SCALE	
HORIZ:	AS SHOWN
VERT:	NONE
FIELD BOOK	NONE
WORK ORDER	2008-

SHEET No
ST-6



PLOT DATE: Thursday, 10/23/2008 10:53:08 AM
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REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
STRIPING PLAN
 "L" 391+00.00 to "L" 405+50.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

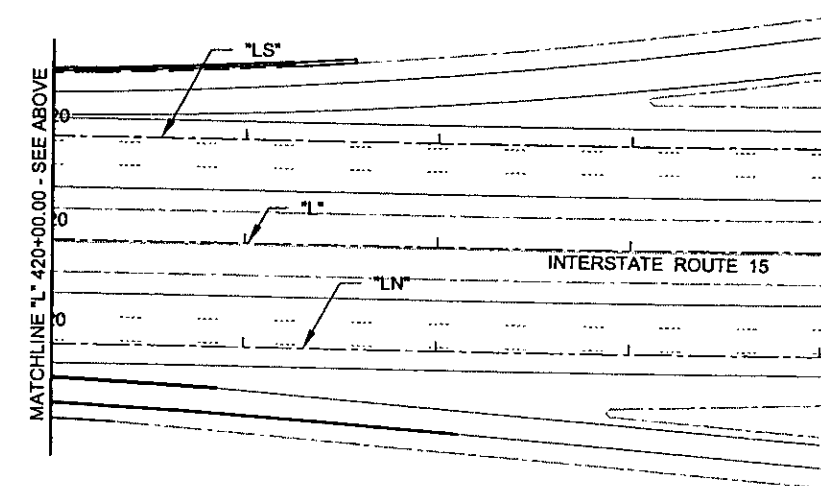
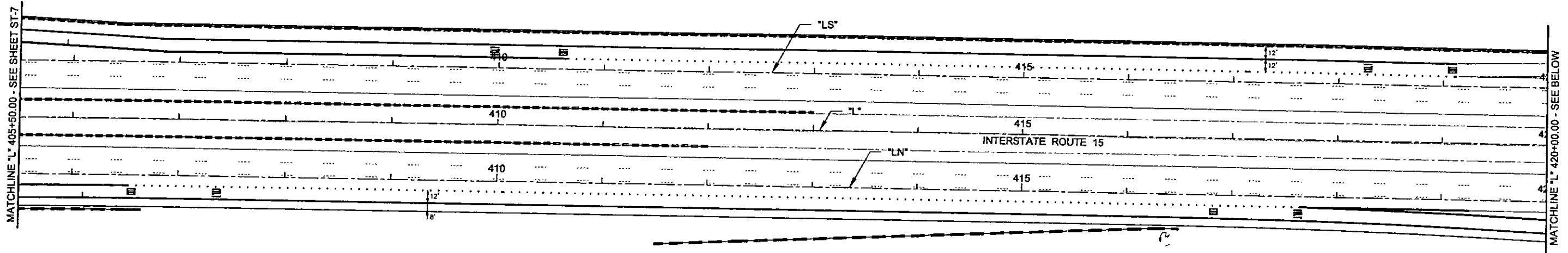
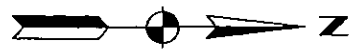
PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

PROJECT No: 1014 DRAWN BY: ELC
 DESIGNED BY: NLG CHECKED BY: CAB
 APPROVED BY: TDL

THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89118
 PHONE (702) 736-8832 • FAX (702) 736-0704

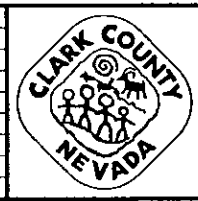
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HORIZ.	AS SHOWN
VERT.	NONE
FIELD BOOK	NONE
WORK ORDER	2008-

SHEET No
ST-7



PLOT DATE: Thursday, 10/23/2008 10:51:42 AM
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 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
STRIPING PLAN
 "L" 405+50.00 to "L" 420+50.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

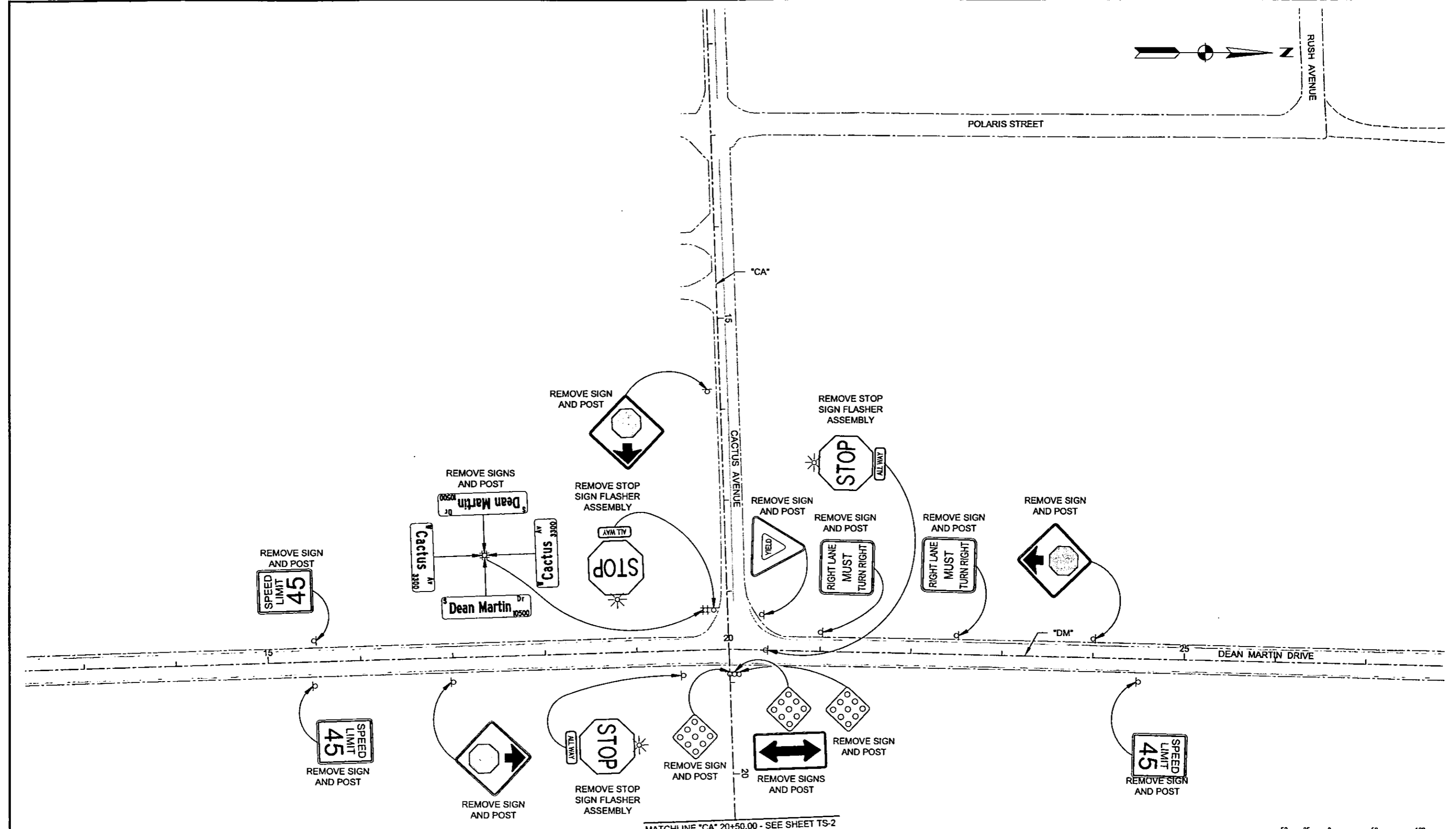
EXP 06/30/09

PROJECT No: 1014 DRAWN BY: GFV
 DESIGNED BY: NLG CHECKED BY: CAB
 APPROVED BY: TDL

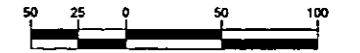
THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 LAS VEGAS, NEVADA 89118
 PHONE (702) 736-0832 *FAX (702) 736-0704

SCALE	SHEET No
HORIZ: AS SHOWN	ST-8
VERT: NONE	
FIELD BOOK: NONE	
WORK ORDER: 2008-	

PLOT DATE: Thursday, 10/22/2008 11:34:08 AM
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 REFERENCE FILES:



MATCHLINE "CA" 20+50.00 - SEE SHEET TS-2



REV. NO.	DATE	DESCRIPTION	APPROVED

CLARK COUNTY NEVADA

CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD

SIGN REMOVAL PLAN
 "CA" 12+00.00 TO "CA" 20+50.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

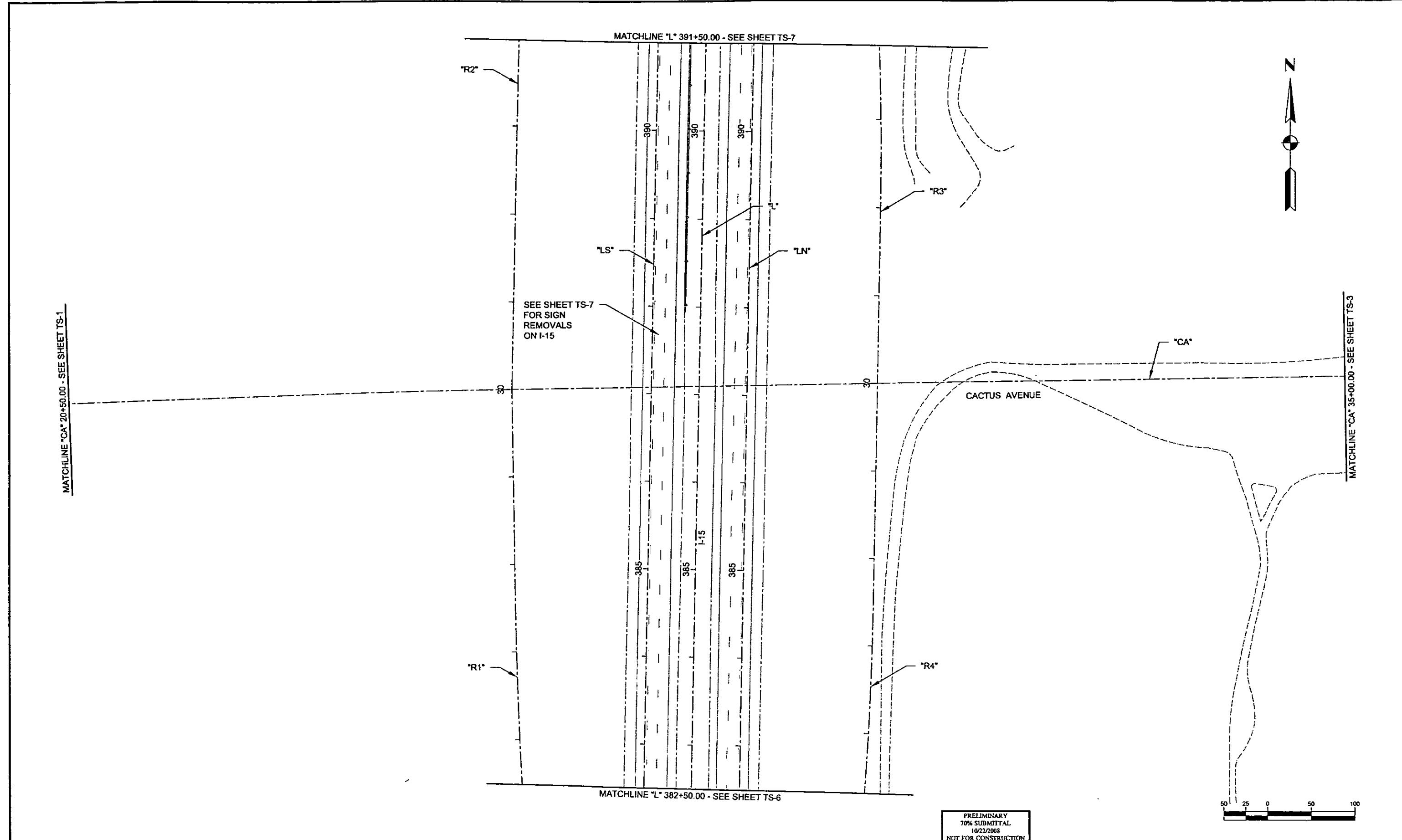
EXP 06/30/09

PROJECT No: 1014 DRAWN BY: ELC
 DESIGNED BY: EWR CHECKED BY: NLG
 APPROVED BY: TDL

THE Louis Berger Group, INC.
 500 AMBRO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119
 PHONE (702) 736-8832 • FAX (702) 736-0704

SCALE		SHEET No
HORIZ:	AS SHOWN	TS-1
VERT:	NONE	
FIELD BOOK	NONE	
WORK ORDER	2008-	

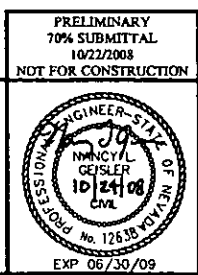
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 REFERENCE FILES:



REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
SIGN REMOVAL PLAN
 "CA" 20+50.00 to "CA" 35+00.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



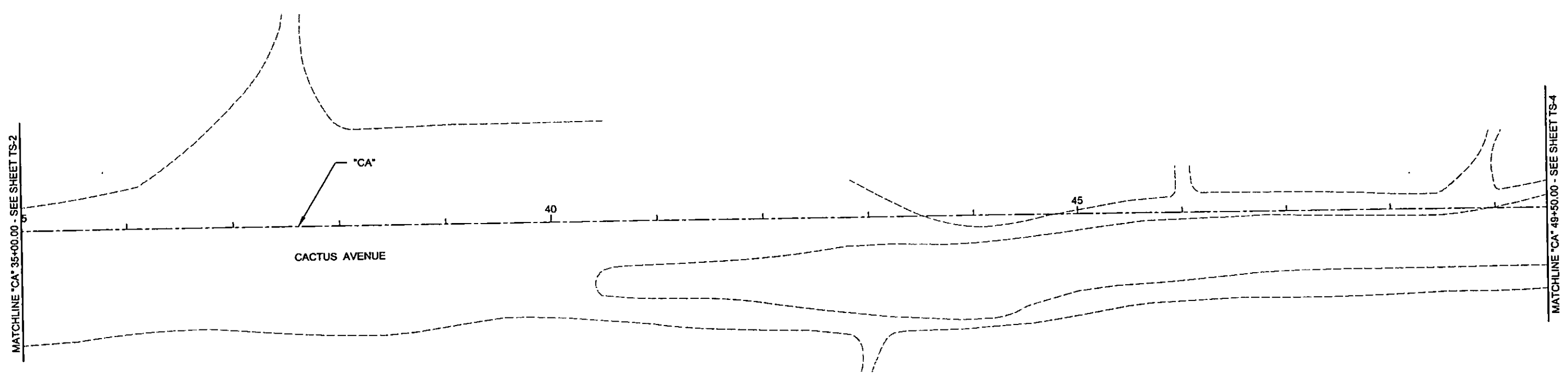
PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

PROJECT No: 1014 DRAWN BY: ELC
 DESIGNED BY: EWR CHECKED BY: NLG
 APPROVED BY: TDL

THE Louis Berger Group, INC.
 300 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119
 PHONE (702) 736-8832 • FAX (702) 736-0704

SCALE		SHEET No
HORIZ:	AS SHOWN	TS-2
VERT:	NONE	
FIELD BOOK:	NONE	
WORK ORDER:	2008-	

CACTUS AVENUE / I-15 INTERCHANGE

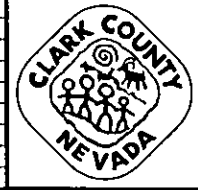


NO SIGN REMOVALS THIS SHEET

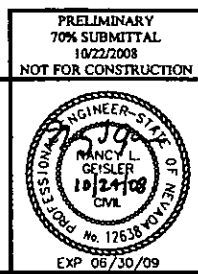


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 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
SIGN REMOVAL PLAN
 "CA" 35+00.00 to "CA" 49+50.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

PROJECT No: 1014 DRAWN BY: ELC
 DESIGNED BY: EWR CHECKED BY: MLG
 APPROVED BY: TDL

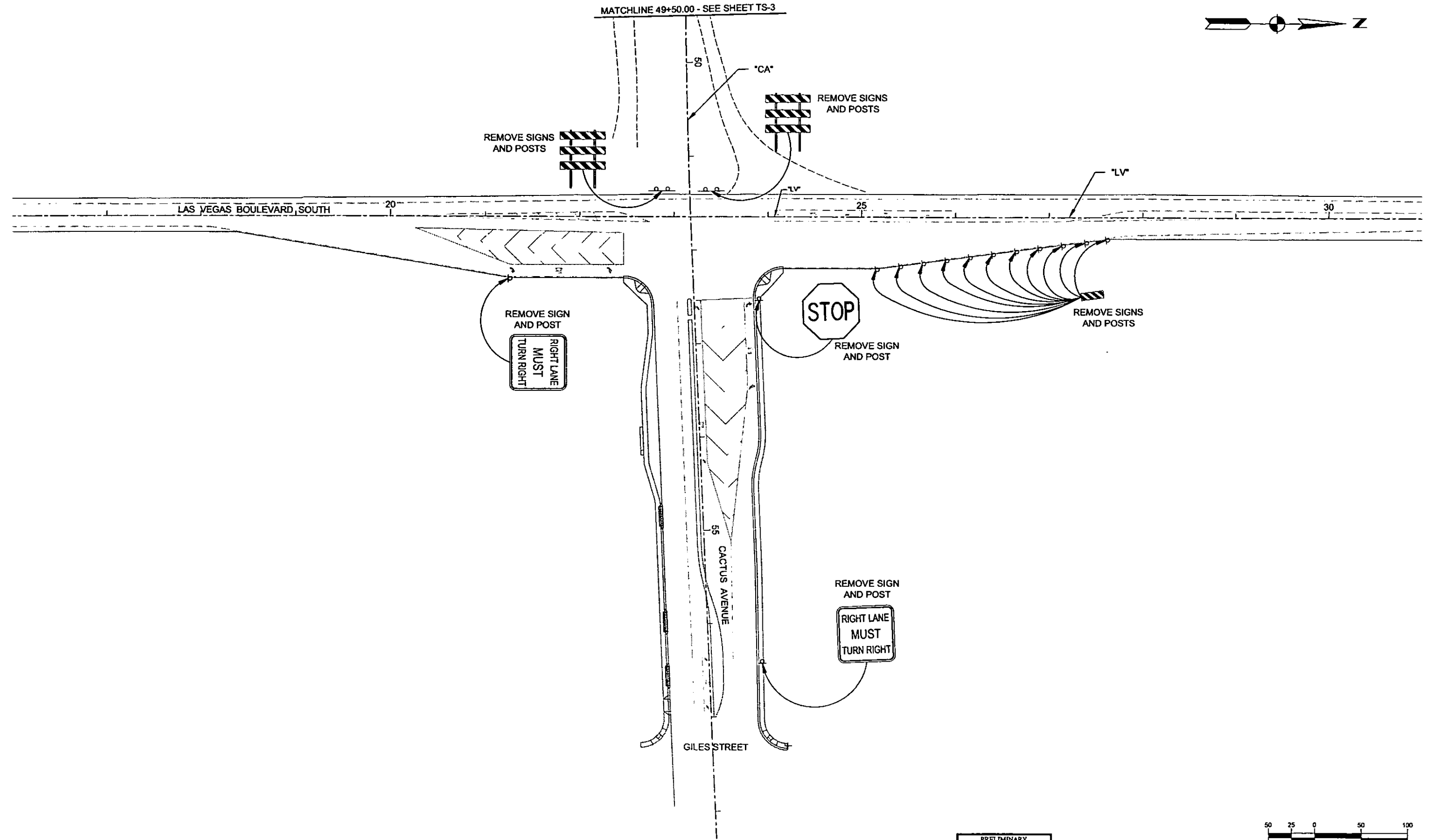
THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89118
 PHONE (702) 736-8832 • FAX (702) 736-0704

SCALE	
HORIZ:	AS SHOWN
VERT:	NONE
FIELD BOOK:	NONE
WORK ORDER:	2008-

SHEET No
TS-3



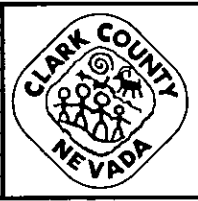
MATCHLINE 49+50.00 - SEE SHEET TS-3



PLOT DATE: Thursday, 10/22/09 1:46:24 PM
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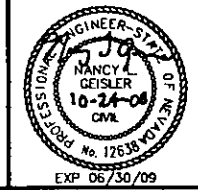


REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
SIGN REMOVAL PLAN
 "CA" 49+50.00 to "CA" 57+00.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

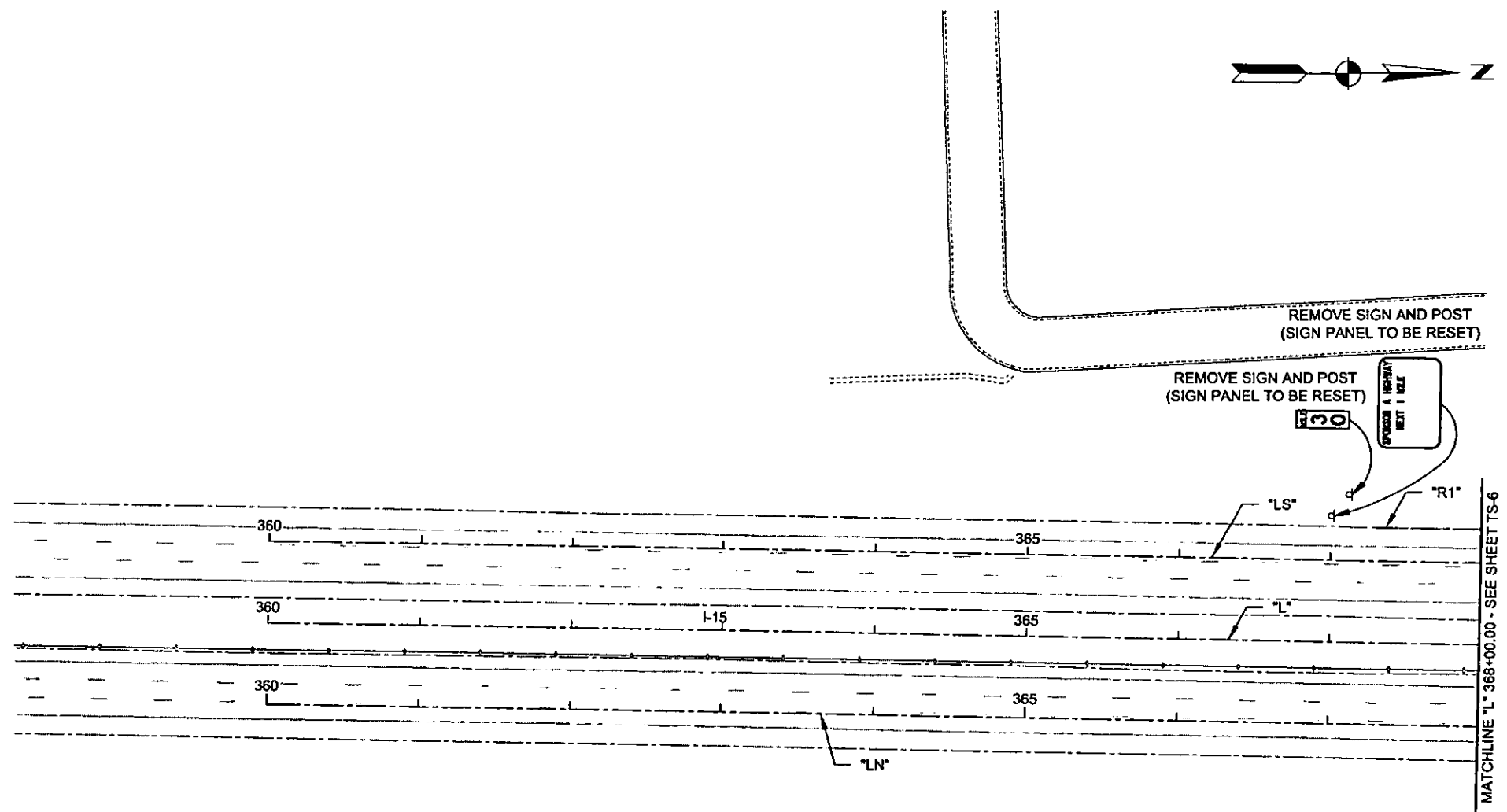
PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION



PROJECT No: 1014 DRAWN BY: ELC
 DESIGNED BY: EWR CHECKED BY: NLG
 APPROVED BY: TDL
THE Louis Berger Group, Inc.
 500 AMIGO COURT, SUITE 100 *LAS VEGAS, NEVADA *89119
 PHONE (702) 736-0032 *FAX (702) 736-0704

SCALE
 HORIZ: AS SHOWN
 VERT: NONE
 FIELD BOOK: NONE
 WORK ORDER: 2008-

SHEET No
TS-4

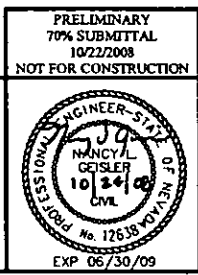


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 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



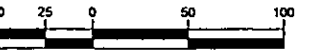
CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
SIGN REMOVAL PLAN
 "L" 360+00.00 to "L" 368+00.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



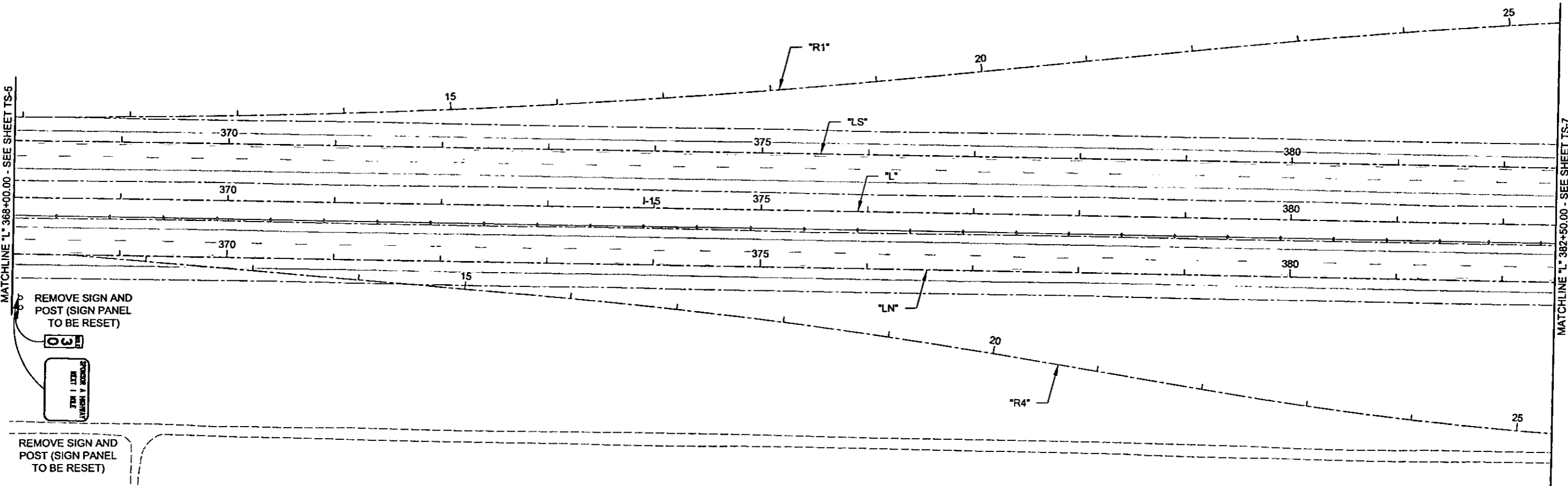
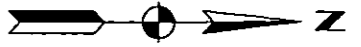
PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

PROJECT No: 1014 DRAWN BY: ELC
 DESIGNED BY: EWR CHECKED BY: MLG
 APPROVED BY: TDL

THE Louis Berger Group, INC.
 800 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119
 PHONE (702) 736-0832 • FAX (702) 736-0704



SCALE		SHEET No
HORIZ:	AS SHOWN	TS-5
VERT:	NONE	
FIELD BOOK	NONE	
WORK ORDER	2008	

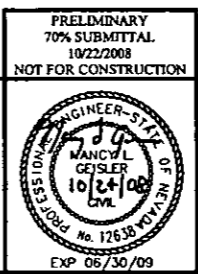


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 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
SIGN REMOVAL PLAN
 "L"368+00.00 to "L" 382+50.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

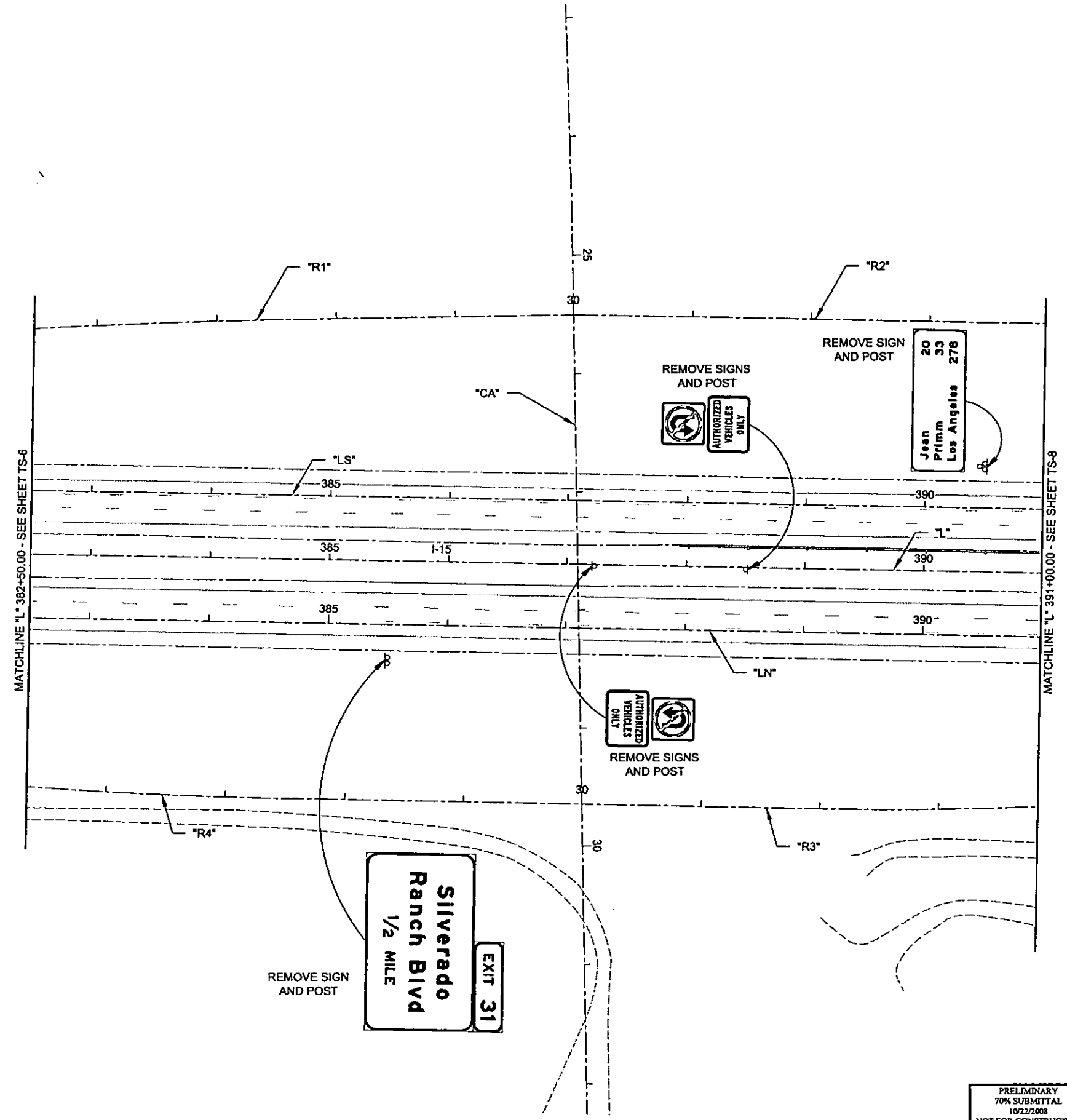
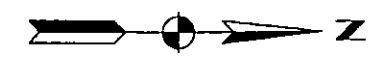


PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

PROJECT No: 1014 DRAWN BY: ELC
 DESIGNED BY: EWR CHECKED BY: NLG
 APPROVED BY: TDL

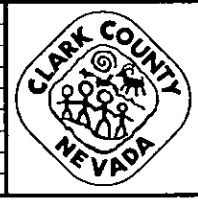
THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 *LAS VEGAS, NEVADA *89119
 PHONE (702) 736-0632 *FAX (702) 736-0704

SCALE		SHEET No
HORIZ:	AS SHOWN	TS-6
VERT:	NONE	
FIELD BOOK	NONE	
WORK ORDER	2008	

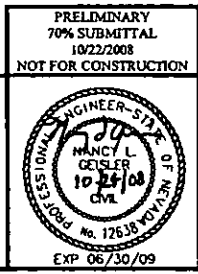


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 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
SIGN REMOVAL PLAN
 "L" 382+50.00 to "L" 391+00.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

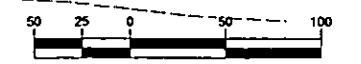
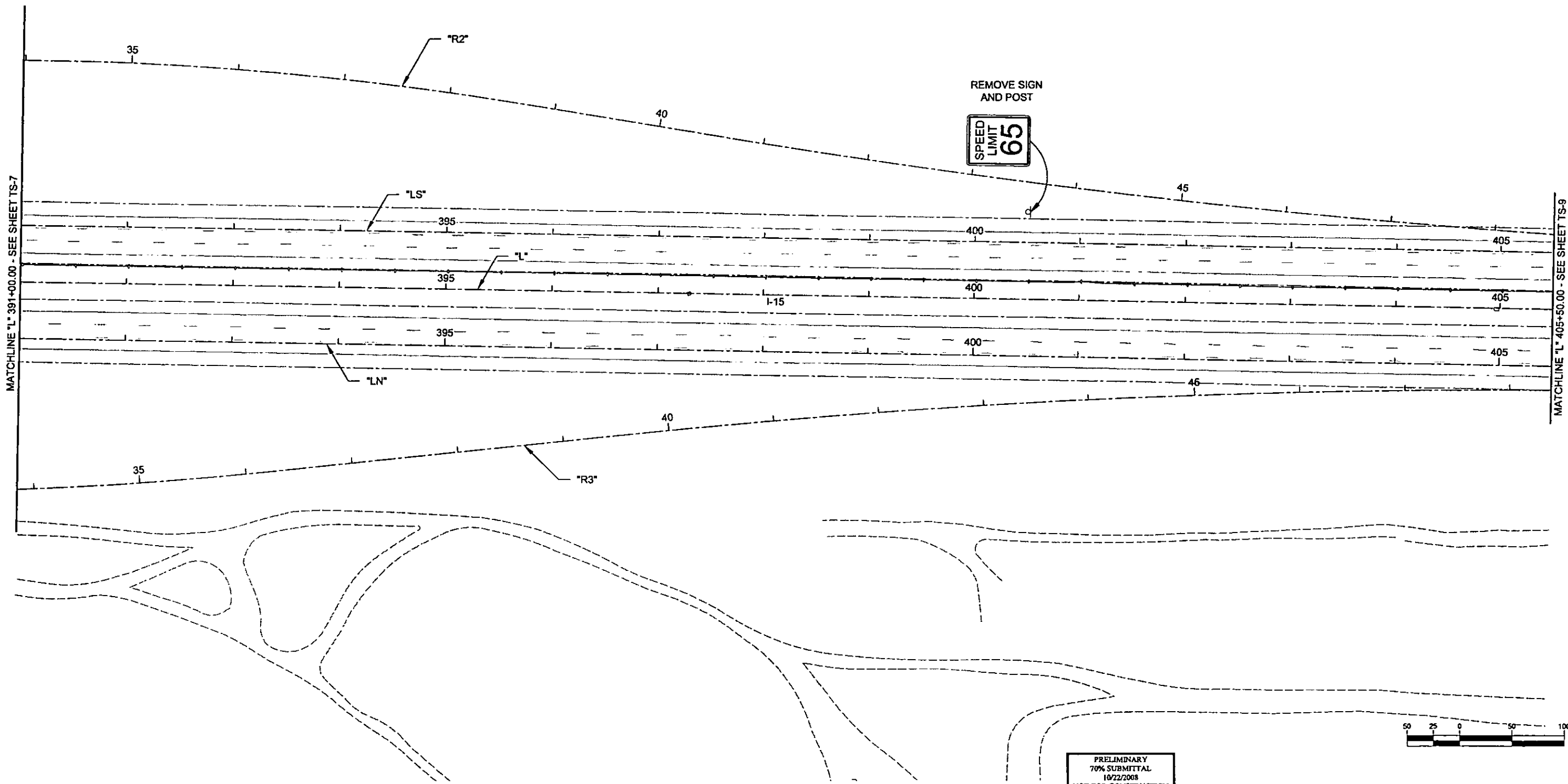
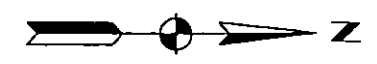


PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

PROJECT No: 1014 DRAWN BY: ELC
 DESIGNED BY: EWR CHECKED BY: MLG
 APPROVED BY: TDL

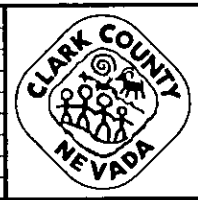
THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119
 PHONE (702) 736-6832 • FAX (702) 736-0704

SCALE	SHEET No
HORIZ: AS SHOWN	TS-7
VERT: NONE	
FIELD BOOK: NONE	
WORK ORDER: 2008-	

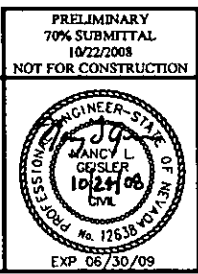


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 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
SIGN REMOVAL PLAN
 "L" 391+00.00 to "L" 405+50.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



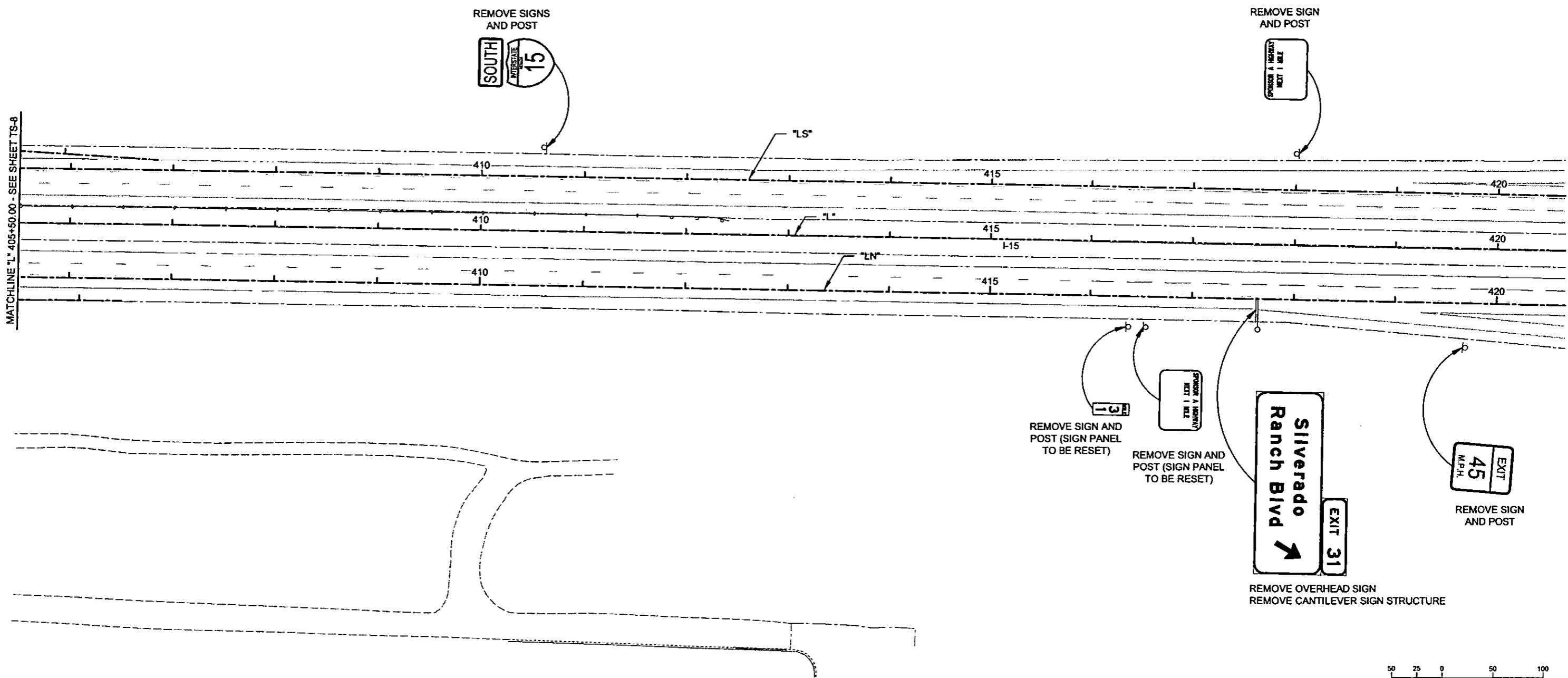
PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

PROJECT No: 1014 DRAWN BY: ELC
 DESIGNED BY: EWR CHECKED BY: NLG
 APPROVED BY: TDL

THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 *LAS VEGAS, NEVADA *89119
 PHONE (702) 736-0832 * FAX (702) 736-0704

SCALE	
HORIZ.	AS SHOWN
VERT.	NONE
FIELD BOOK	NONE
WORK ORDER	2008-

SHEET No
TS-8

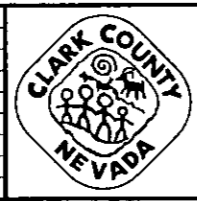


MATCHLINE "L" 405+50.00 - SEE SHEET TS-8

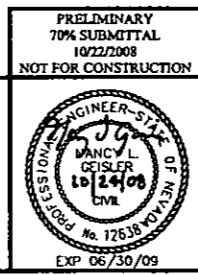


PLOT DATE: Thursday, October 2, 2008 2:08:31 PM
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 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
SIGN REMOVAL PLAN
 "L" 405+50.00 to "L" 420+50.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



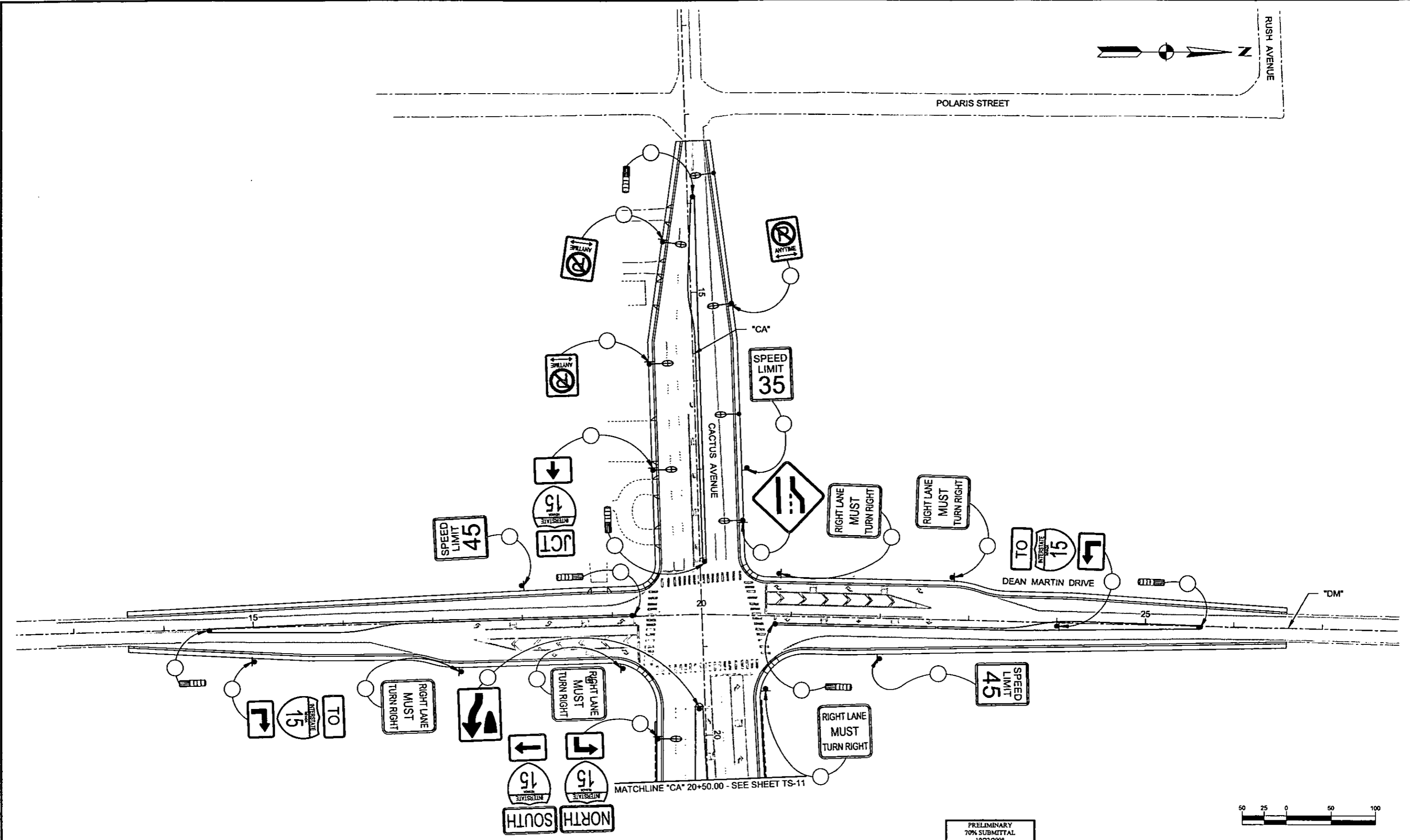
PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

PROJECT No: 1014 DRAWN BY: ELC
 DESIGNED BY: EWR CHECKED BY: NLG
 APPROVED BY: TDL

THE Louis Berger Group, INC.
 500 AMMO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119
 PHONE (702) 736-0632 • FAX (702) 736-0704

SCALE	SHEET No
HORIZ: AS SHOWN	TS-9
VERT: NONE	
FIELD BOOK: NONE	
WORK ORDER: 2008	

PLOT DATE: Thursday, 10/22/2008 8:01:58 PM
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 REFERENCE FILES:



REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
PERMANENT SIGNING PLAN
 "CA" 12+00.00 to "CA" 20+50.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

PROJECT No: 1014 DRAWN BY: ELC
 DESIGNED BY: NLG CHECKED BY: NLG
 APPROVED BY: TDL

THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119
 PHONE (702) 736-0832 • FAX (702) 736-0704

SCALE: _____
 HORIZ: AS SHOWN
 VERT: NONE
 FIELD BOOK: NONE
 WORK ORDER: 2008-

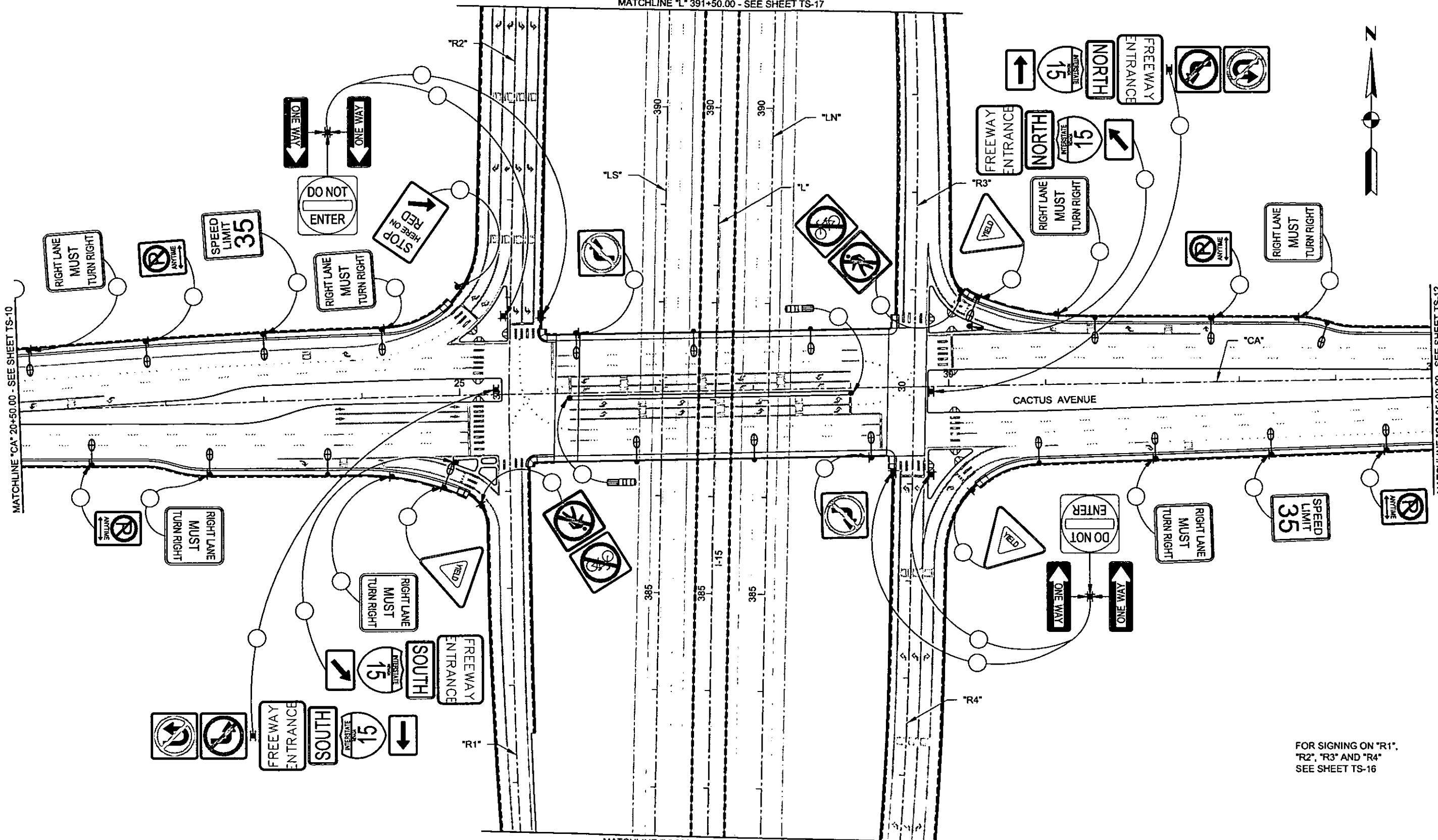
SHEET No
TS-10

MATCHLINE "L" 391+50.00 - SEE SHEET TS-17

MATCHLINE "CA" 20+50.00 - SEE SHEET TS-10

MATCHLINE "CA" 35+00.00 - SEE SHEET TS-12

MATCHLINE "L" 382+50.00 - SEE SHEET TS-15

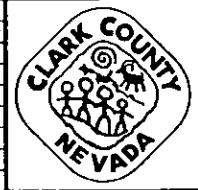


FOR SIGNING ON "R1",
"R2", "R3" AND "R4"
SEE SHEET TS-16

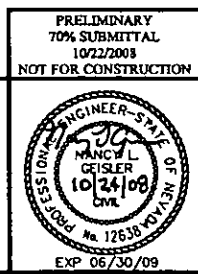


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REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
PERMANENT SIGNING PLAN
"CA" 20+50.00 to "CA" 35+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PRELIMINARY
70% SUBMITTAL
10/22/2008
NOT FOR CONSTRUCTION

PROJECT No: 1014 DRAWN BY: ELC
DESIGNED BY: EWR CHECKED BY: NLG
APPROVED BY: TDL

THE Louis Berger Group, INC.
500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119
PHONE (702) 736-8832 • FAX (702) 736-0704

SCALE	SHEET No
HORIZ: AS SHOWN	TS-11
VERT: NONE	
FIELD BOOK: NONE	
WORK ORDER: 2008-	

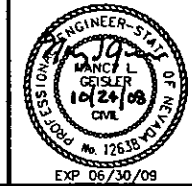
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 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
PERMANENT SIGNING PLAN
 "CA" 35+00.00 to "CA" 49+50.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

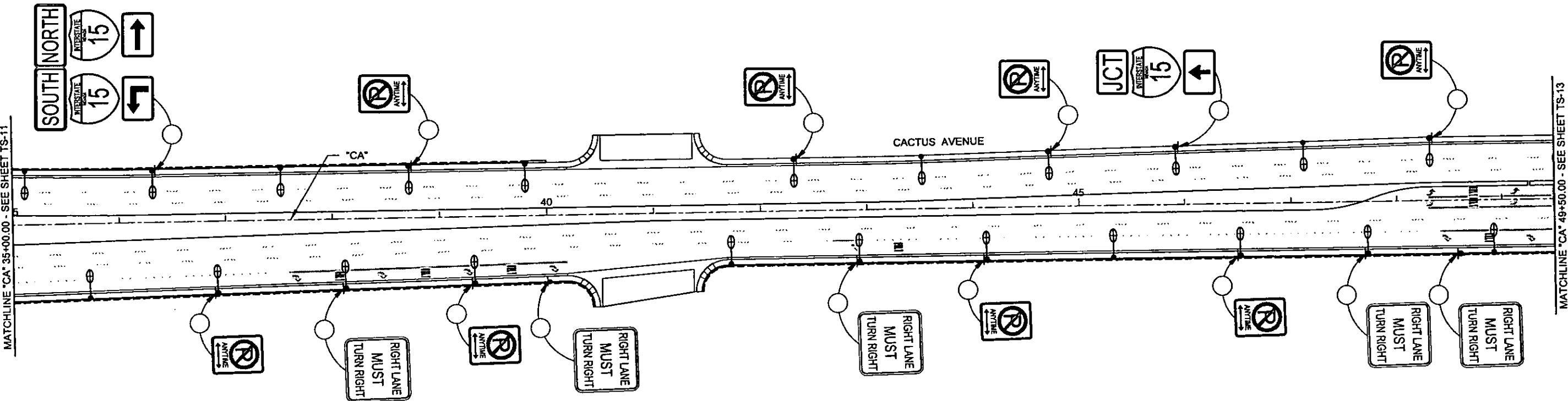


PROJECT No: 1014 DRAWN BY: ELC
 DESIGNED BY: EWR CHECKED BY: NLG
 APPROVED BY: TDL

THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119
 PHONE (702) 736-0632 • FAX (702) 736-0704

SCALE
 HORIZ: AS SHOWN
 VERT: NONE
 FIELD BOOK: NONE
 WORK ORDER: 2008-

SHEET No
TS-12

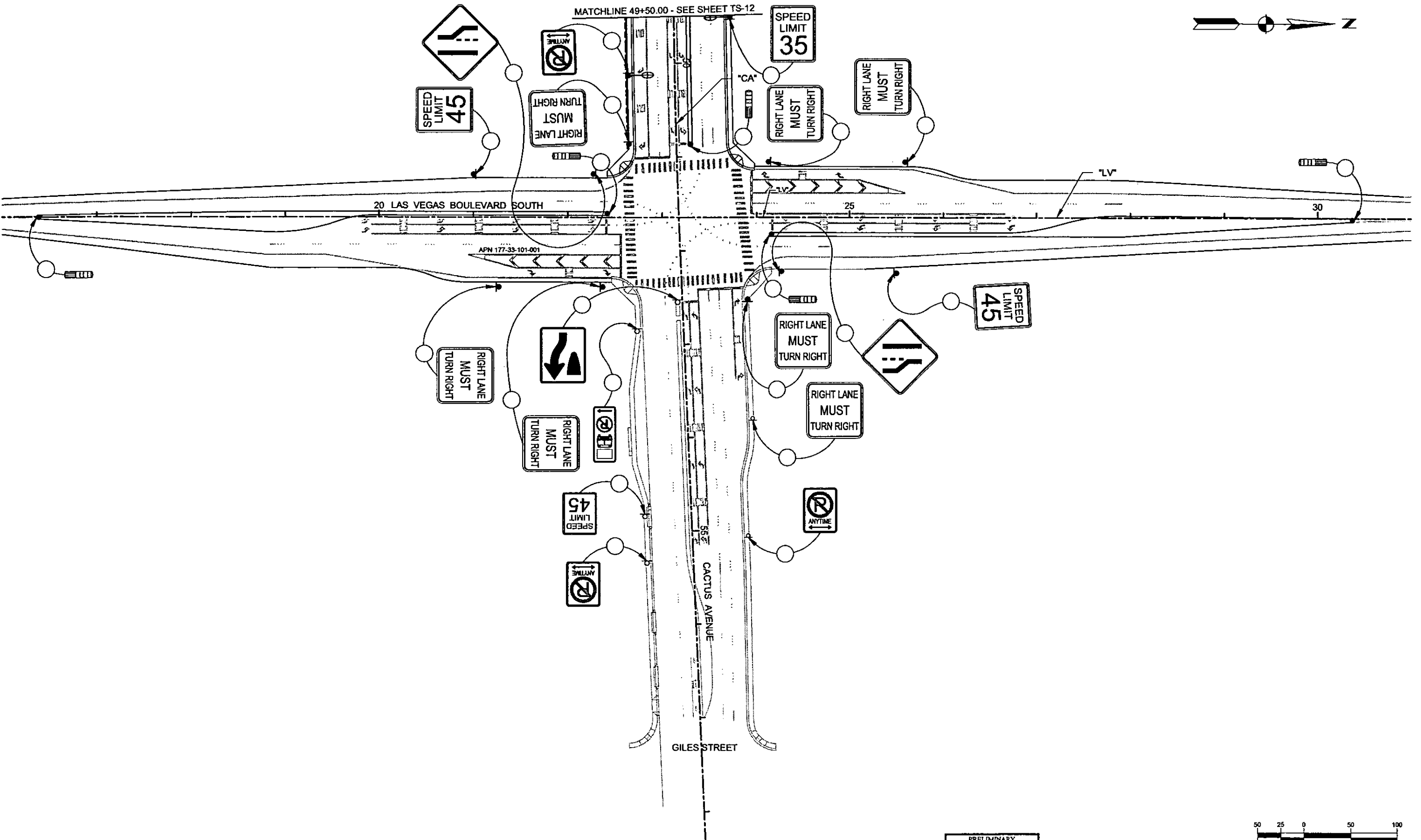


MATCHLINE "CA" 35+00.00 - SEE SHEET TS-11

MATCHLINE "CA" 49+50.00 - SEE SHEET TS-13



CACTUS AVENUE / I-15 INTERCHANGE



PLOT DATE: Tuesday, October 28, 2008 4:25:59 PM
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 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
PERMANENT SIGNING PLAN
 "CA" 49+50.00 to "CA" 57+00.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

PROJECT No: 1014 DRAWN BY: ELC
 DESIGNED BY: EWR CHECKED BY: NLG
 APPROVED BY: TDL

THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 *LAS VEGAS, NEVADA *89118
 PHONE (702) 736-0632 *FAX (702) 736-0704

SCALE	SHEET No
HORIZ: AS SHOWN	TS-13
VERT: NONE	
FIELD BOOK: NONE	
WORK ORDER: 2008-	



Jean Primm
Los Angeles 276

SPEED LIMIT
65

SOUTH
INTERSTATE
15

1000'

1000'

200'

360

365

360

365

360

365

1320'

500'

EXIT 30
CACTUS AVENUE
1/2 MILE

1/4
CACTUS AVE
SILVERADO RANCH BLVD 1/4
BLUE DIAMOND RD 2 1/4

"LS"

"I"

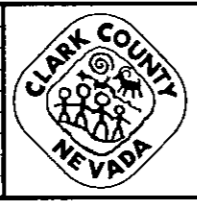
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MATCHLINE "L" 368+00.00 - SEE SHEET TS-15

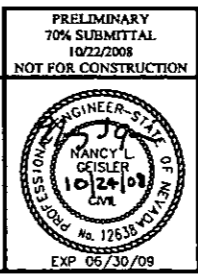


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 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
PERMANENT SIGNING PLAN
 "L" 360+00.00 to "L" 368+00.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

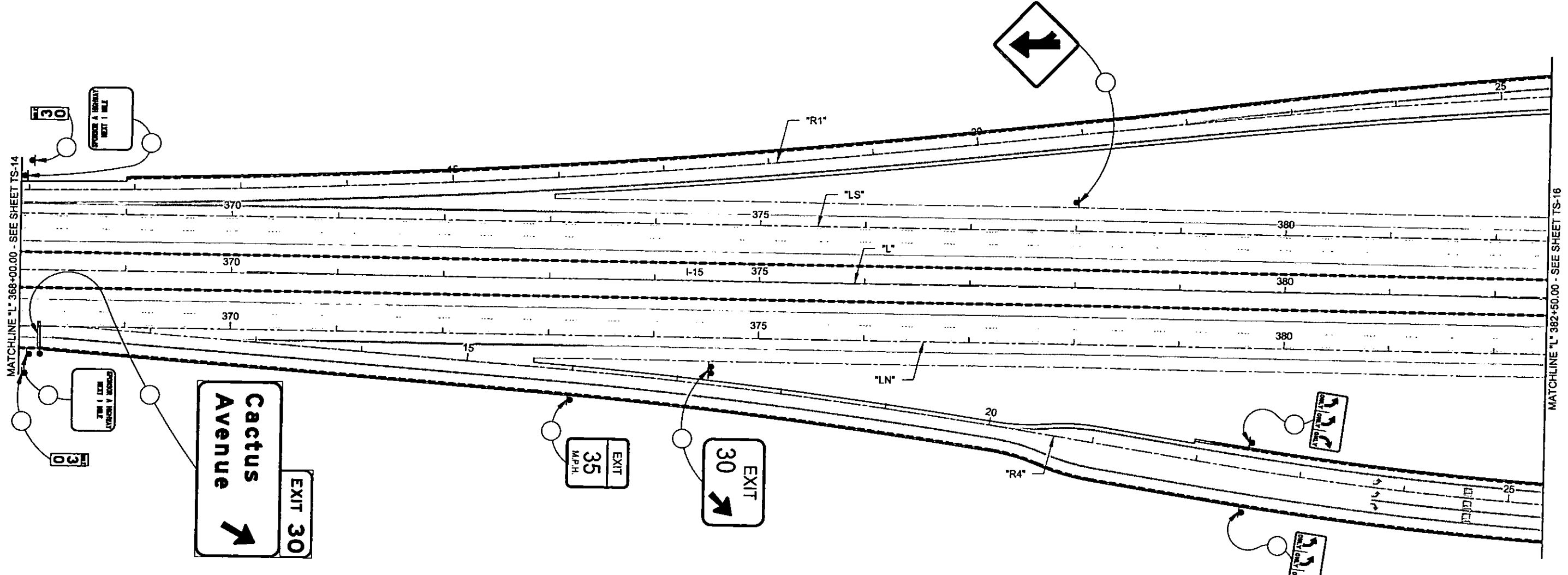


PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

PROJECT No: 1014 DRAWN BY: ELC
 DESIGNED BY: EWR CHECKED BY: NLG
 APPROVED BY: TDL

THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 *LAS VEGAS, NEVADA *89119
 PHONE (702) 736-0032 *FAX (702) 736-0704

SCALE		SHEET No
HORIZ:	AS SHOWN	TS-14
VERT:	NONE	
FIELD BOOK	NONE	
WORK ORDER	2008-	



MATCHLINE "L" 368+00.00 - SEE SHEET TS-14

MATCHLINE "L" 382+50.00 - SEE SHEET TS-16



PLOT DATE: Thursday, 10/22/2008 2:08:28 PM
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 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
PERMANENT SIGNING PLAN
 "L"368+00.00 to "L" 382+50.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

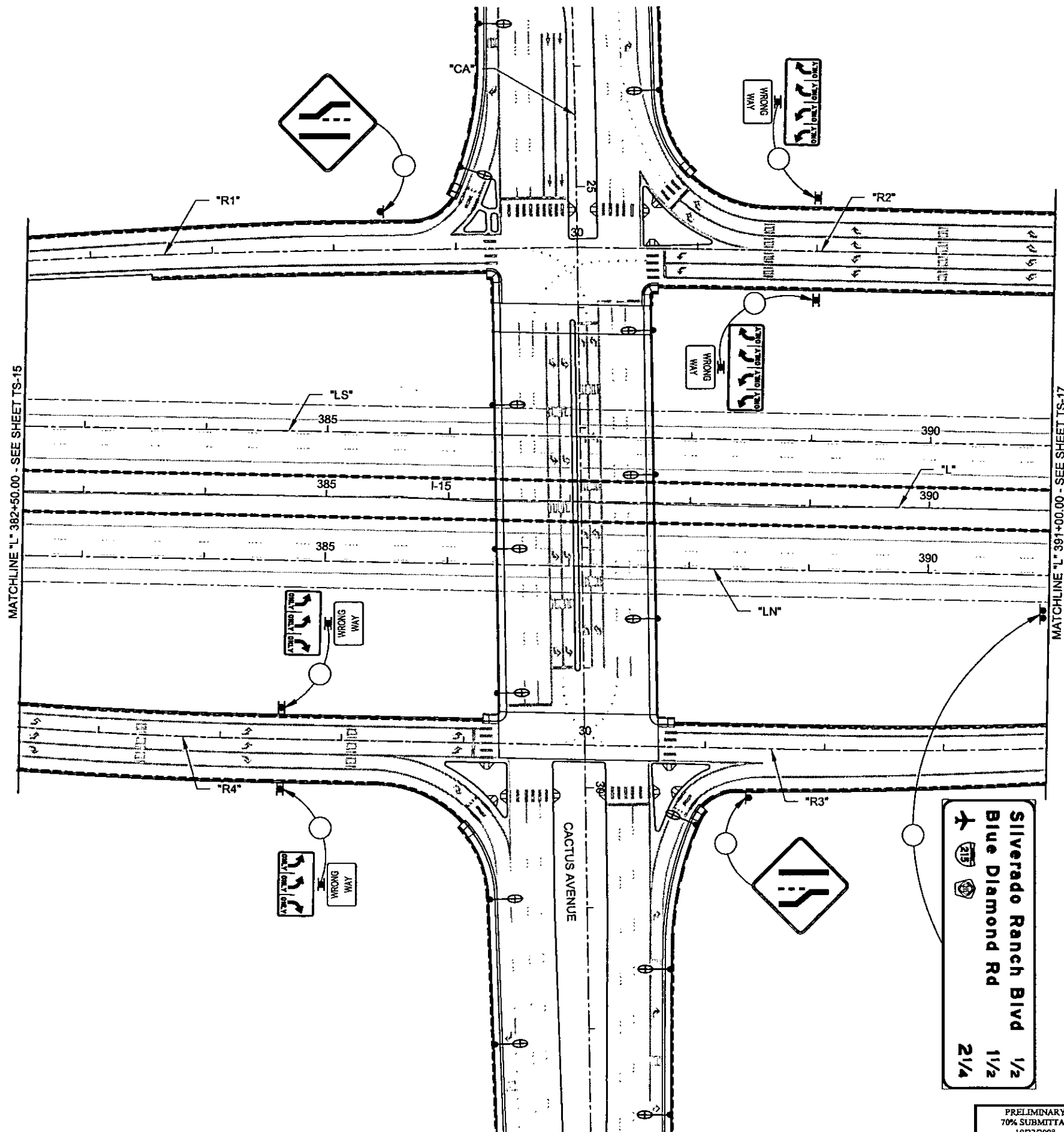
PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

PROJECT No: 1014 DRAWN BY: ELC
 DESIGNED BY: EWR CHECKED BY: NLG
 APPROVED BY: TDL

THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 *LAS VEGAS, NEVADA *89119
 PHONE (702) 736-6632 *FAX (702) 736-0704

SCALE	HORIZ: AS SHOWN	VERT: NONE	FIELD BOOK: NONE	WORK ORDER: 2008-	SHEET No TS-15
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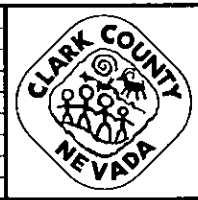
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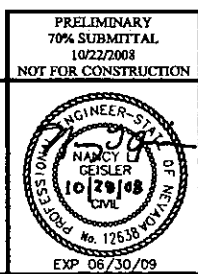
FOR SIGNING ON
 CACTUS AVENUE
 SEE SHEET TS-11



REV. NO.	DATE	DESCRIPTION	APPROVED



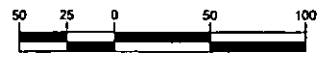
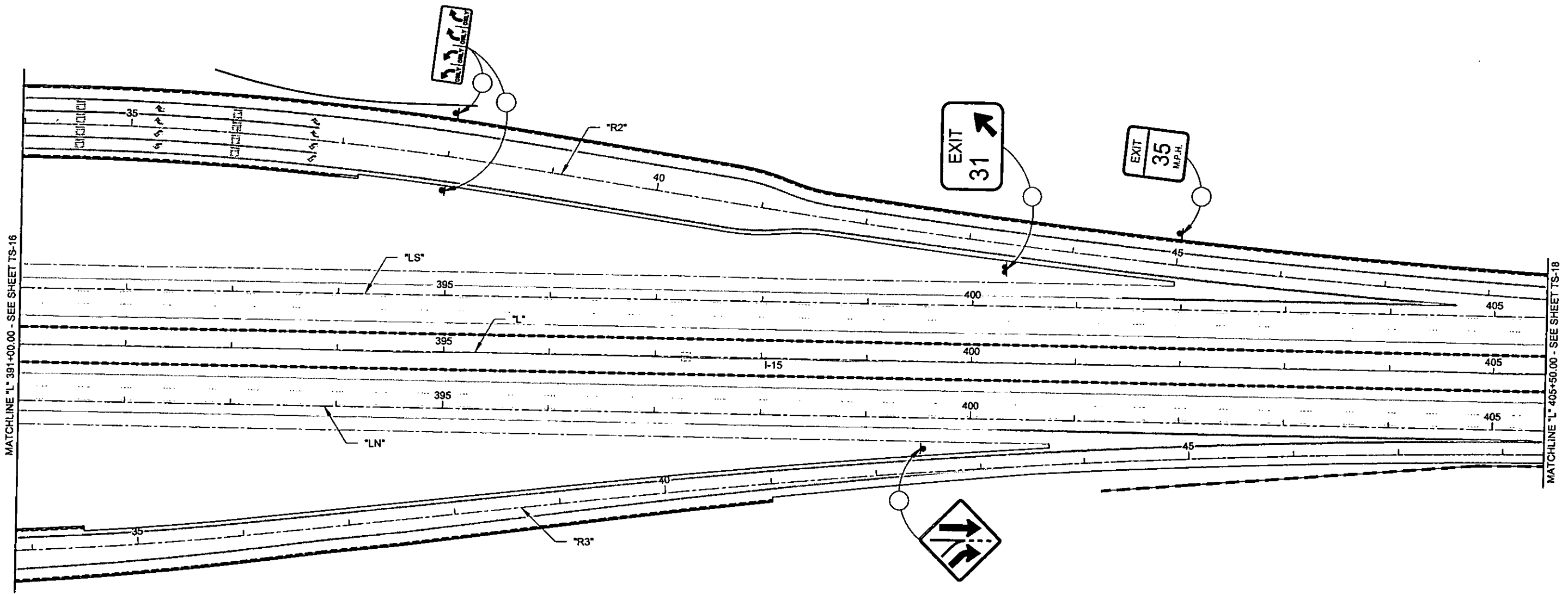
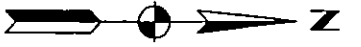
CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
PERMANENT SIGNING PLAN
 "L" 382+50.00 TO "L" 391+00.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 1014 DRAWN BY: ELC
 DESIGNED BY: EWR CHECKED BY: NLG
 APPROVED BY: TDL
THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119
 PHONE (702) 736-0832 • FAX (702) 736-0704

SCALE	SHEET No
HORIZ: AS SHOWN	TS-16
VERT: NONE	
FIELD BOOK: NONE	
WORK ORDER: 2008-	

CACTUS AVENUE / I-15 INTERCHANGE



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REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
PERMANENT SIGNING PLAN
 "L" 391+00.00 to "L" 405+50.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

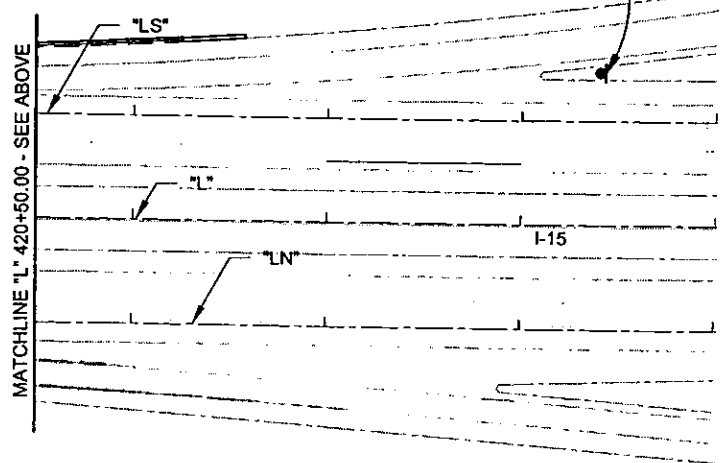
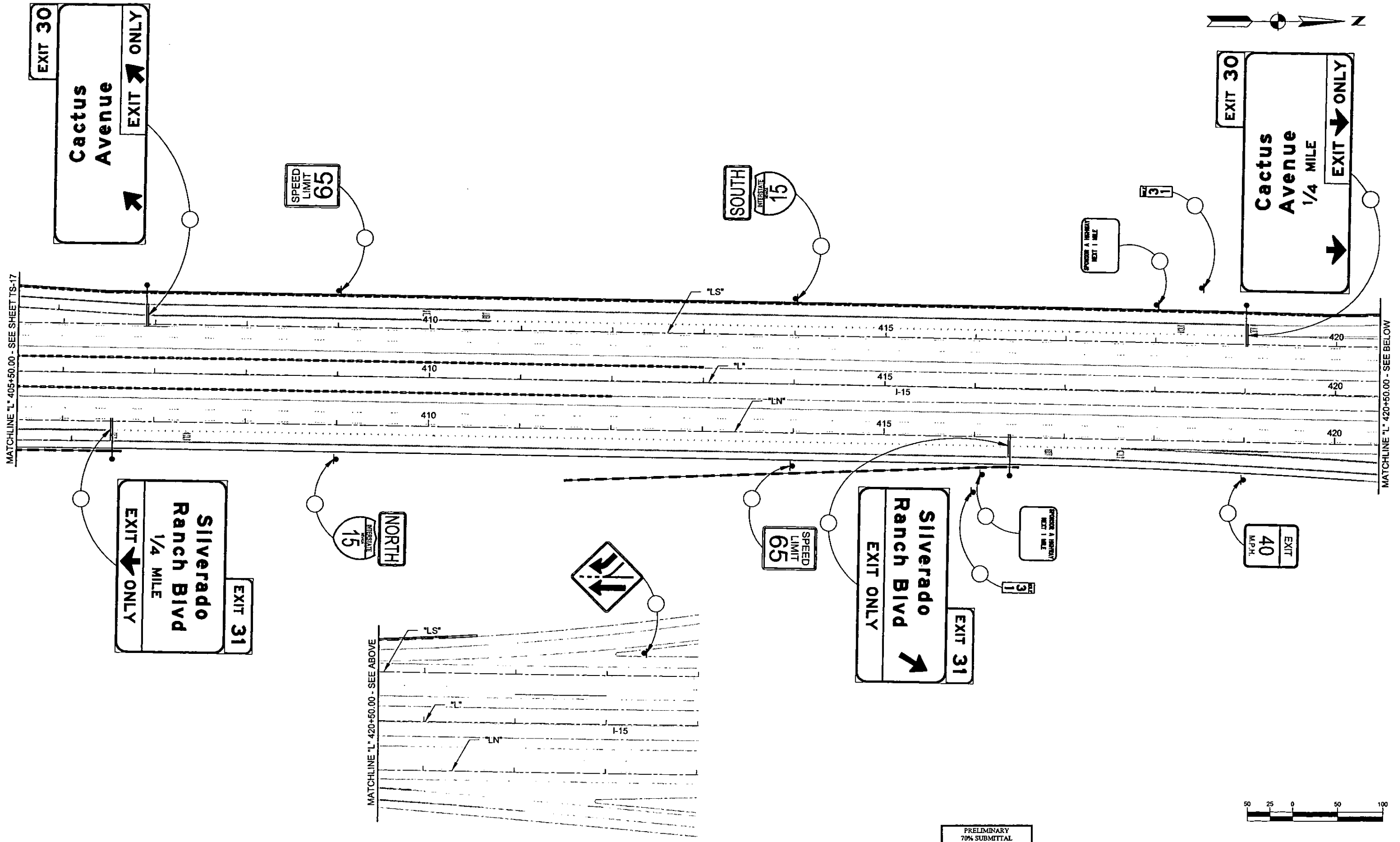
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 DESIGNED BY: EWR CHECKED BY: NLG
 APPROVED BY: TDL

THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA 89019
 PHONE (702) 736-8832 • FAX (702) 736-0704

SCALE	
HORIZ	AS SHOWN
VERT	NONE
FIELD BOOK	NONE
WORK ORDER	2008

SHEET No
TS-17

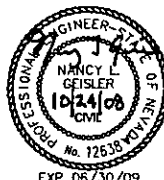
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REV. NO.	DATE	DESCRIPTION	APPROVED


CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
PERMANENT SIGNING PLAN
 "L" 405+50.00 to "L" 420+50.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION



PROJECT No: 1014 DRAWN BY: ELC
 DESIGNED BY: EWR CHECKED BY: NLG
 APPROVED BY: TDL

THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 LAS VEGAS, NEVADA 89119
 PHONE (702) 736-8632 FAX (702) 736-0704

SCALE	SHEET No
HORIZ: AS SHOWN	TS-18
VERT: NONE	
FIELD BOOK: NONE	
WORK ORDER: 2008-	

GENERAL NOTES:

1. ALL CONSTRUCTION AND MATERIALS FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA, NEVADA" LATEST EDITION, THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA, NEVADA" LATEST EDITION, AND THE NEVADA DEPARTMENT OF TRANSPORTATION "2005 STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION, UNLESS OTHERWISE STATED.
2. THE CONTRACTOR SHALL NOTIFY ALL AFFECTED PUBLIC ENTITIES AND CLARK COUNTY PUBLIC WORKS AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF WORK.
3. 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 FOR UTILITIES OR STRUCTURES NOT SHOWN AT ACTUAL LOCATIONS ON THE DRAWINGS. EXISTING SERVICE LATERALS ARE NOT SHOWN ON THESE DRAWINGS. CONTRACTOR TO VERIFY THE EXACT LOCATION OF UTILITIES AND CCPW FACILITIES PRIOR TO START OF CONSTRUCTION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL UNDERGROUND AND AERIAL UTILITIES AND STRUCTURES.
5. THE CONTRACTOR SHALL DETERMINE THE LOCATION AND DEPTH OF SUSPECTED UTILITY INTERFERENCES, AND SHALL FURNISH INFORMATION ON THE SAME TO THE ENGINEER, NOT LESS THAN TEN (10) DAYS PRIOR TO THE ANTICIPATED IMPACT OF THESE SUSPECTED INTERFERENCES ON HIS WORK. IF CONFLICTS EXIST, THE CONTRACTOR WILL IMMEDIATELY CONTACT THE ENGINEER AND PROVIDE THE ENGINEER WITH ALL THE NECESSARY DATA SUCH AS ELEVATIONS, HORIZONTAL LOCATIONS, ETC. AND PROVIDE THE ENGINEER WITH SKETCHES INDICATING THE PROPOSED IMPROVEMENT AND THE UTILITY CONFLICT. THE ENGINEER WILL EXAMINE AND REVIEW ALL THE DATA AND SKETCHES PROVIDED AND WILL PROVIDE THE CONTRACTOR WITH AN ALTERNATIVE DESIGN WITHIN FIVE (5) DAYS AFTER RECEIPT OF DATA AND SKETCHES.
6. THE CONTRACTOR SHALL NOT REMOVE TREES, SHRUBS, LAWNS, WALLS, FENCES, SIGNS, STRUCTURES, LIGHTS OR ANY EXISTING IMPROVEMENTS OUTSIDE OF STREET RIGHT-OF-WAY, EXCEPT WHERE REQUIRED TO DO SO BY THE CONTRACT DRAWINGS OR BY THE ENGINEER. REPLACEMENT, RELOCATION OR RECONSTRUCTION OF ALL EXISTING IMPROVEMENTS, INCLUDING SPRINKLER SYSTEMS, LAWNS, FENCES, WALLS, SIGNS, STEPS, SIDEWALK, DRIVEWAYS, LAWN LIGHTS, AND ALL OTHER ITEMS APPLICABLE TO THIS CONTRACT SHALL BE AS REQUIRED BY THE ENGINEER.
7. REMOVAL OR RELOCATION OF POWER POLES, TELEPHONE POLES, JOINTLY-OWNED POLES, AND APPURTENANCES, WHICH INTERFERE WITH IMPROVEMENTS REQUIRED TO BE CONSTRUCTED UNDER THIS CONTRACT, SHALL BE THE RESPONSIBILITY OF THE RESPECTIVE UTILITY COMPANY. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH THE UTILITY COMPANIES FAR ENOUGH IN ADVANCE AS TO NOT IMPACT THE SCHEDULE.
8. NV ENERGY SHALL BE RESPONSIBLE FOR THE RELOCATION OF UNDERGROUND OR OVERHEAD POWER LINES THAT INTERFERE WITH THE REQUIRED IMPROVEMENTS AS SHOWN ON THE PLANS.
9. THE CONTRACTOR SHALL REPLACE IN KIND ALL SURFACE MATERIALS THAT ARE DISTURBED BY TRENCHING, EXCAVATION, BACKFILLING AND SIMILAR OPERATIONS. THIS SHALL INCLUDE, BUT IS NOT LIMITED TO, REPLACEMENT OF PAVEMENT, SIDEWALK, CURB AND GUTTER, FENCING, DRAINAGE, INLETS AND SYSTEMS, AND OTHER UTILITIES.

GENERAL ELECTRICAL NOTES:

1. THE CONTRACTOR SHALL VERIFY THAT POLE LOCATIONS ARE WITHIN THE RIGHT-OF-WAY.
2. SLIGHT ADJUSTMENTS TO POLE LOCATIONS WILL BE ALLOWED FOR OTHER CONSTRUCTION ITEMS AND RIGHT-OF-WAY LIMITATIONS AS APPROVED BY THE ENGINEER.
3. CLARK COUNTY RESERVES THE RIGHT TO REJECT STREET LIGHT AND TRAFFIC SIGNAL POLES AND ASSEMBLIES, WHICH HAVE A "STRIPED" APPEARANCE.
4. ALL WIRE AND CABLE TO RUN TERMINAL TO TERMINAL WITHOUT SPLICING UNLESS OTHERWISE SPECIFIED AND AS APPROVED BY THE ENGINEER.
5. ALL ITEMS REMOVED SHALL BE SALVAGED BY THE CONTRACTOR AND DELIVERED TO THE CLARK COUNTY TRAFFIC OPERATIONS DIVISION AT 4315 STEPHANIE STREET, LAS VEGAS, NEVADA WITHIN 48 HOURS OF THEIR REMOVAL. CONTACT CLARK COUNTY OPERATIONS AT 455-7544 TO SCHEDULE DELIVERY. APPOINTMENT FOR DELIVERY IS REQUIRED.
6. ELECTRICAL TRANSFORMER PAD SHALL BE INSTALLED BY THE CONTRACTOR. INSTALL PER NV ENERGY STANDARD RS-19.
7. ALL CONDUIT ENDS SHALL BE SEALED WITH A DUCT SEALING COMPOUND. USE NSI INDUSTRIES DUCT SEALING COMPOUND OR AN APPROVED EQUAL. NO DIRECT PAYMENT SHALL BE MADE FOR THIS WORK.
8. ALL STREET LIGHTING PULL BOXES SHALL BE CONCRETE AND HAVE GROUNDED METAL COVERS MARKED "STREET LIGHTING". A GROUNDING CONDUCTOR SHALL BE WELDED TO EACH METAL PULL BOX COVER USING AN EXOTHERMAL WELDING PROCESS ACCEPTABLE TO THE ENGINEER. THE METAL COVERS SHALL BE GROUNDED.

STREET LIGHTING NOTES:

1. ALL STREET LIGHTING WIRE SHALL BE COPPER WITH THW-2 INSULATION. ALL STREET LIGHT POLES SHALL BE WIRED TO THE LUMINAIRE WITH NO. 10 AWG COPPER WIRE.
2. EACH LIGHT POLE SHALL BE INDIVIDUALLY GROUNDED USING A BARE NO. 4 STRANDED COPPER CONDUCTOR CONTINUOUS FROM THE GROUNDING PLATE, ATTACHING TO EACH ANCHOR BOLT, AND TERMINATING AT THE GROUNDING NUT, INTERIOR TO THE POLE SHAFT. A MINIMUM OF 18 INCH "TAIL" SHALL REMAIN FOLLOWING TERMINATION FOR CONNECTION TO OTHER GROUND WIRES.
3. COBRA HEAD LUMINAIRES SHALL BE CONTROLLED BY A SINGLE PHOTO CELL CONTROL INSIDE THE SERVICE PEDESTAL.
4. THE MINIMUM SIZE CONDUIT FOR STREET LIGHTING CIRCUITS SHALL BE 2-INCH DIAMETER CONDUIT.

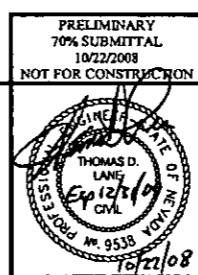
- LIGHT POLE - 250 WATT LUMINAIRE
- LIGHT POLE - 400 WATT LUMINAIRE
- EXISTING LIGHT POLE
- EXISTING PULL BOX
- NEW PULL BOX
- EXISTING CONDUIT RUN
- NEW CONDUIT RUN
- NEW SERVICE PEDESTAL
- EXISTING SERVICE PEDESTAL
- NEW CONTROLLER CABINET
- EXISTING CONTROLLER CABINET
- NEW NV ENERGY TRANSFORMER PAD
- EXISTING NV ENERGY TRANSFORMER PAD
- LIGHTING CONDUIT RUN NO.
- POLE ID $\frac{X = \text{POLE NO.}}{Y = \text{CIRCUIT NO.}}$
- 120' HIGH MAST LIGHT POLE: 6 x 400 WATT LUMINAIRE
- 100' HIGH MAST LIGHT POLE: 4 x 400 WATT LUMINAIRE
- EXISTING 120' HIGH MAST LIGHT POLE: 6 x 400 WATT LUMINAIRE
- EXISTING 100' HIGH MAST LIGHT POLE: 4 x 400 WATT LUMINAIRE
- SIGN LUMINAIRE - 85 WATT INDUCTION
- UNDERPASS LUMINAIRE - 70 WATT HPS

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REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
LIGHTING PLAN
LEGEND AND GENERAL NOTES
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

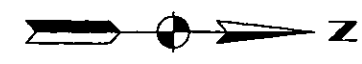
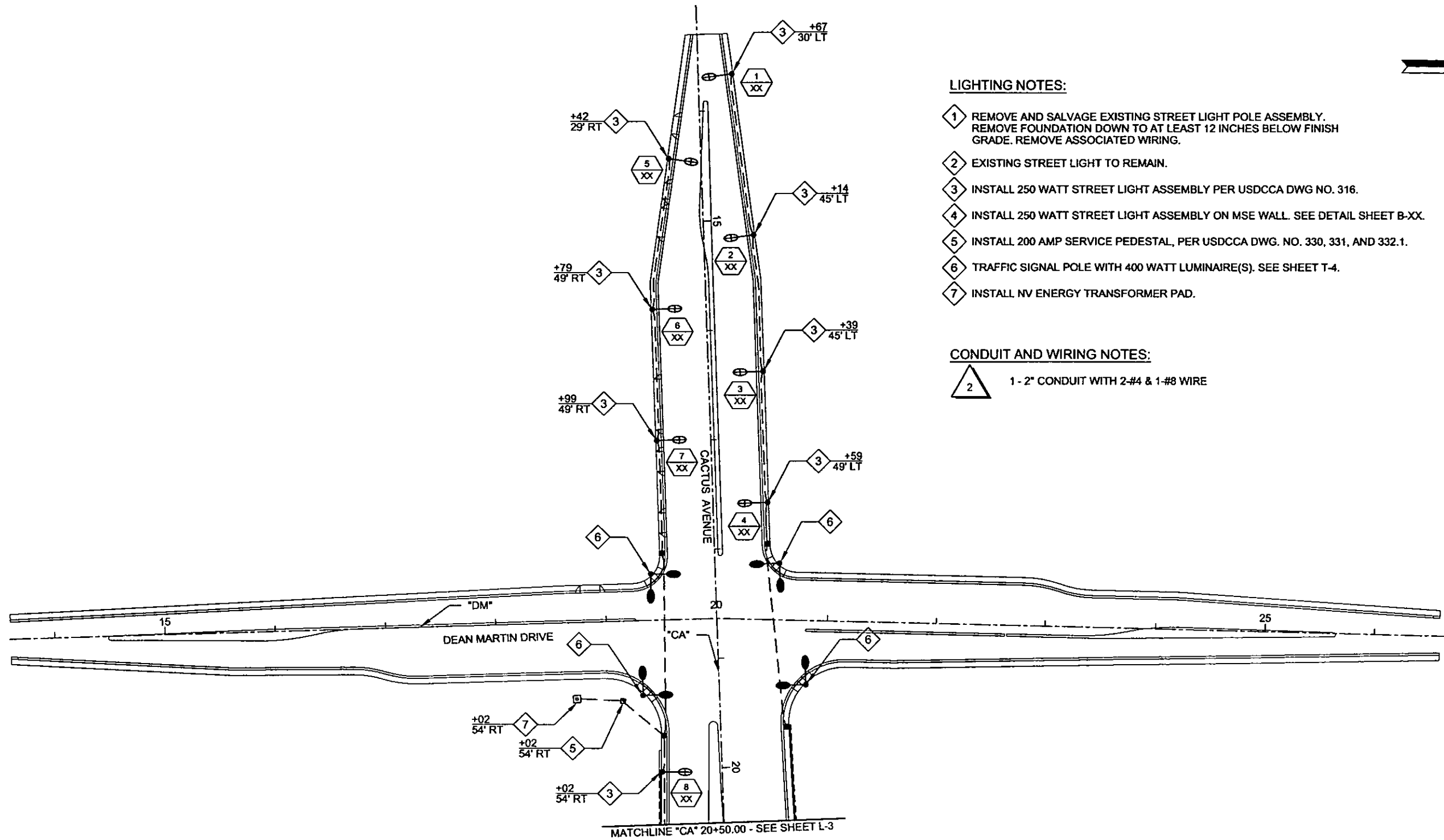


PRELIMINARY
70% SUBMITTAL
10/22/2008
NOT FOR CONSTRUCTION

PROJECT No: 1014 DRAWN BY: ALB
DESIGNED BY: ALB CHECKED BY: NLG
APPROVED BY: TDL

THE Louis Berger Group, INC.
500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119
PHONE (702) 736-0632 • FAX (702) 736-0704

SCALE	SHEET No
HORIZ: NONE	L-1
VERT: NONE	
FIELD BOOK: NONE	
WORK ORDER: 2008-	



LIGHTING NOTES:

- 1 REMOVE AND SALVAGE EXISTING STREET LIGHT POLE ASSEMBLY. REMOVE FOUNDATION DOWN TO AT LEAST 12 INCHES BELOW FINISH GRADE. REMOVE ASSOCIATED WIRING.
- 2 EXISTING STREET LIGHT TO REMAIN.
- 3 INSTALL 250 WATT STREET LIGHT ASSEMBLY PER USDCCA DWG NO. 316.
- 4 INSTALL 250 WATT STREET LIGHT ASSEMBLY ON MSE WALL. SEE DETAIL SHEET B-XX.
- 5 INSTALL 200 AMP SERVICE PEDESTAL, PER USDCCA DWG. NO. 330, 331, AND 332.1.
- 6 TRAFFIC SIGNAL POLE WITH 400 WATT LUMINAIRE(S). SEE SHEET T-4.
- 7 INSTALL NV ENERGY TRANSFORMER PAD.

CONDUIT AND WIRING NOTES:

- 2 1 - 2" CONDUIT WITH 2-#4 & 1-#8 WIRE

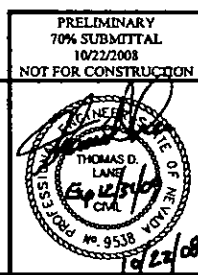


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REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
LIGHTING PLAN
 "CA" 12+00.00 TO "CA" 20+50.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



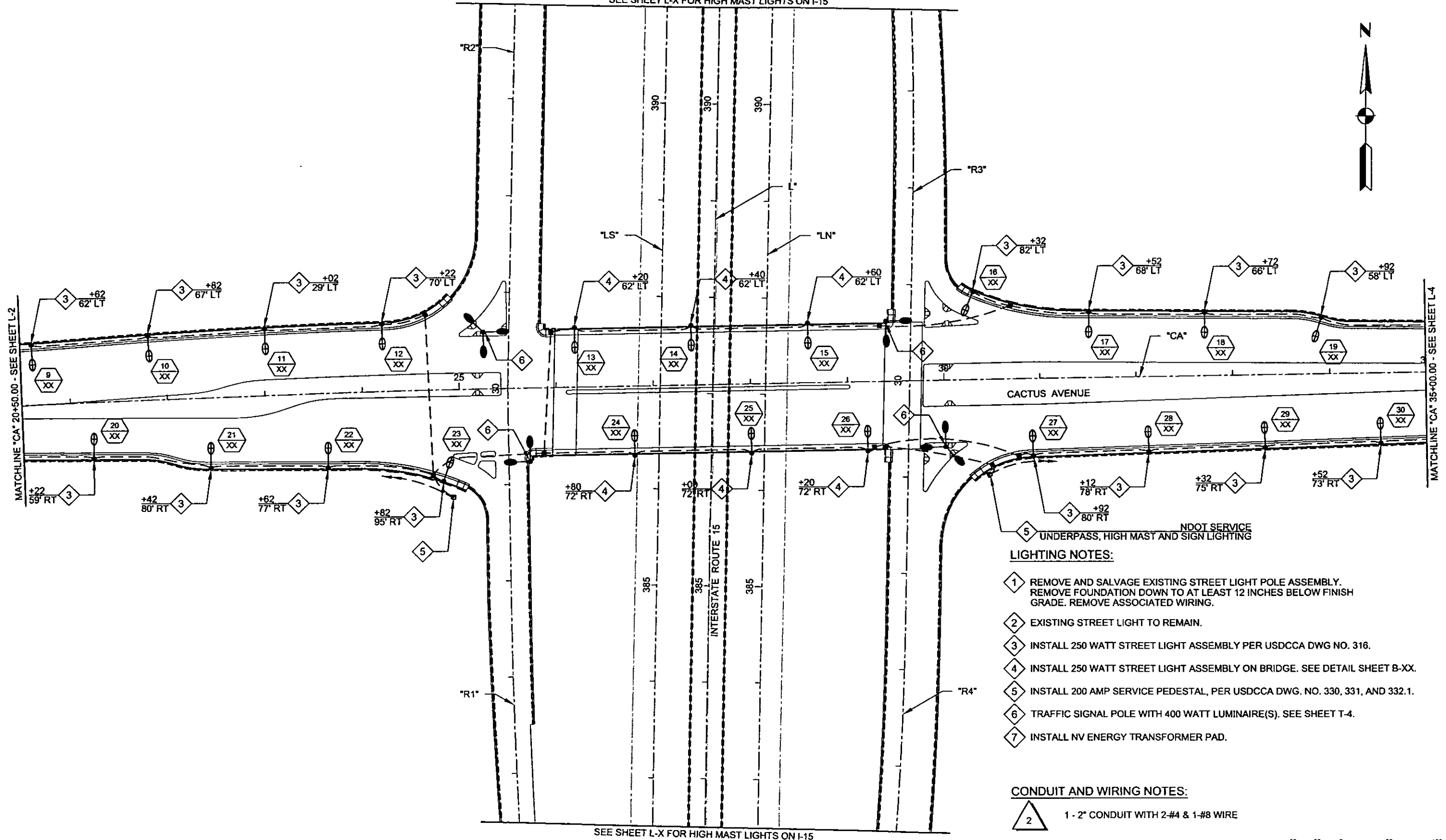
PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

PROJECT No: 1014 DRAWN BY: ALB
 DESIGNED BY: EWR CHECKED BY: NLG
 APPROVED BY: TDL

THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89118
 PHONE (702) 736-6832 • FAX (702) 736-0704

SCALE	SHEET No
HORIZ: AS SHOWN	L-2
VERT: NONE	
FIELD BOOK: NONE	
WORK ORDER: 2008-	

SEE SHEET L-X FOR HIGH MAST LIGHTS ON I-15



SEE SHEET L-X FOR HIGH MAST LIGHTS ON I-15

NDOT SERVICE UNDERPASS, HIGH MAST AND SIGN LIGHTING

LIGHTING NOTES:

- 1 REMOVE AND SALVAGE EXISTING STREET LIGHT POLE ASSEMBLY. REMOVE FOUNDATION DOWN TO AT LEAST 12 INCHES BELOW FINISH GRADE. REMOVE ASSOCIATED WIRING.
- 2 EXISTING STREET LIGHT TO REMAIN.
- 3 INSTALL 250 WATT STREET LIGHT ASSEMBLY PER USGCCA DWG NO. 316.
- 4 INSTALL 250 WATT STREET LIGHT ASSEMBLY ON BRIDGE. SEE DETAIL SHEET B-XX.
- 5 INSTALL 200 AMP SERVICE PEDESTAL, PER USGCCA DWG. NO. 330, 331, AND 332.1.
- 6 TRAFFIC SIGNAL POLE WITH 400 WATT LUMINAIRE(S). SEE SHEET T-4.
- 7 INSTALL NV ENERGY TRANSFORMER PAD.

CONDUIT AND WIRING NOTES:

- 1 2" CONDUIT WITH 2-#4 & 1-#8 WIRE

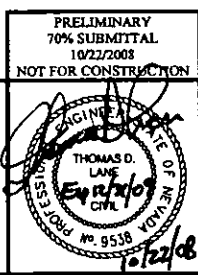


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REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
LIGHTING PLAN
 "CA" 20+50.00 to "CA" 35+00.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PRELIMINARY
70% SUBMITTAL
10/22/2008
NOT FOR CONSTRUCTION

PROJECT No: 1014 DRAWN BY: ALB
 DESIGNED BY: EWR CHECKED BY: NLG
 APPROVED BY: TDL

THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89118
 PHONE (702) 736-0832 • FAX (702) 736-0704

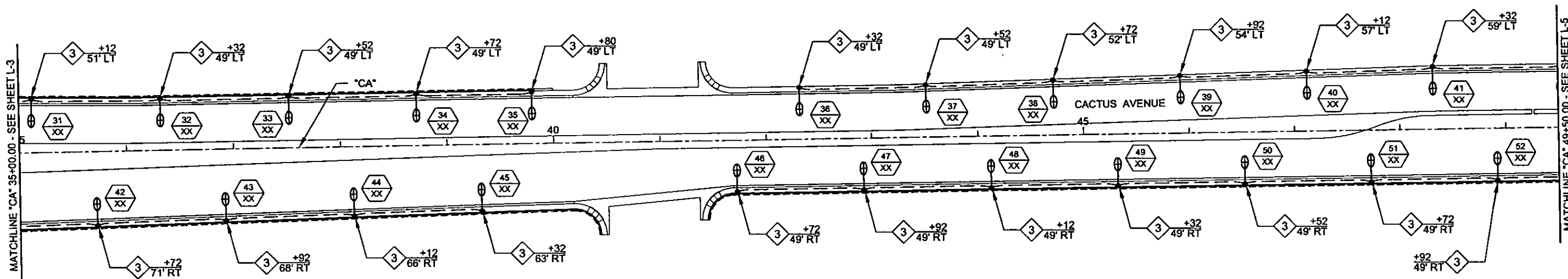
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LIGHTING NOTES:

- 1 REMOVE AND SALVAGE EXISTING STREET LIGHT POLE ASSEMBLY. REMOVE FOUNDATION DOWN TO AT LEAST 12 INCHES BELOW FINISH GRADE. REMOVE ASSOCIATED WIRING.
- 2 EXISTING STREET LIGHT TO REMAIN.
- 3 INSTALL 250 WATT STREET LIGHT ASSEMBLY PER USDCCA DWG NO. 316.
- 4 INSTALL 250 WATT STREET LIGHT ASSEMBLY ON BRIDGE. SEE DETAIL SHEET B-XX.
- 5 INSTALL 200 AMP SERVICE PEDESTAL, PER USDCCA DWG. NO. 330, 331, AND 332.1.
- 6 TRAFFIC SIGNAL POLE WITH 400 WATT LUMINAIRE(S). SEE SHEET T-4.
- 7 INSTALL NV ENERGY TRANSFORMER PAD.

CONDUIT AND WIRING NOTES:

- 2 1 - 2" CONDUIT WITH 2-#4 & 1-#8 WIRE



PLOT DATE: Tuesday, October 2, 2007 1:06:48 PM
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REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
LIGHTING PLAN
 "CA" 35+00.00 to "CA" 49+50.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PRELIMINARY
 70% SUBMITTAL
 10/22/08
 NOT FOR CONSTRUCTION

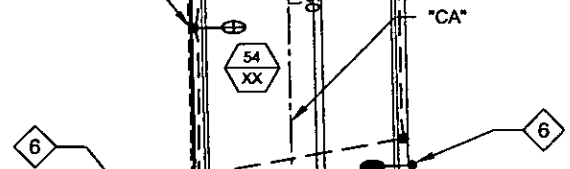
PROJECT No: 1014 DRAWN BY: ALB
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THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119
 PHONE (702) 736-6832 • FAX (702) 736-0704

SCALE	SHEET No
HORIZ: AS SHOWN	L-4
VERT: NONE	
FIELD BOOK: NONE	
WORK ORDER: 2008-	



MATCHLINE 49+50.00 - SEE SHEET L-4

+12 49' RT 3 53 XX +52 59' LT 3



20 LAS VEGAS BOULEVARD SOUTH

25

30

EXISTING SERVICE PEDESTAL



LIGHTING NOTES:

- 1 REMOVE AND SALVAGE EXISTING STREET LIGHT POLE ASSEMBLY. REMOVE FOUNDATION DOWN TO AT LEAST 12 INCHES BELOW FINISH GRADE. REMOVE ASSOCIATED WIRING.
- 2 EXISTING STREET LIGHT TO REMAIN.
- 3 INSTALL 250 WATT STREET LIGHT ASSEMBLY PER USDCCA DWG NO. 316.
- 4 INSTALL 250 WATT STREET LIGHT ASSEMBLY ON BRIDGE. SEE DETAIL SHEET B-XX.
- 5 INSTALL 200 AMP SERVICE PEDESTAL, PER USDCCA DWG. NO. 330, 331, AND 332.1.
- 6 TRAFFIC SIGNAL POLE WITH 400 WATT LUMINAIRE(S). SEE SIGNAL SHEETS.
- 7 INSTALL NV ENERGY TRANSFORMER PAD.

CONDUIT AND WIRING NOTES:

- 2 1 - 2" CONDUIT WITH 2-#4 & 1-#8 WIRE

55 CACTUS AVENUE

GILES STREET



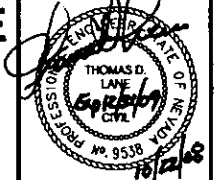
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REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
LIGHTING PLAN
 "CA" 49+50.00 to "CA" 57+00.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PRELIMINARY
70% SUBMITTAL
10/22/2008
NOT FOR CONSTRUCTION



PROJECT No: 1014 DRAWN BY: ALB
 DESIGNED BY: EWR CHECKED BY: NLG
 APPROVED BY: TDL

THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 *LAS VEGAS, NEVADA *89119
 PHONE (702) 736-8832 *FAX (702) 736-0704

SCALE	
HORIZ:	AS SHOWN
VERT:	NONE
FIELD BOOK:	NONE
WORK ORDER:	2008-

SHEET No
L-5

LIGHT POLE SCHEDULE						
POLE	POLE TYPE	STATION	CIRCUIT	NO. OF LUMINAIRES	WATTS/DIST	REMARKS
1	STREET LIGHT	"CA" 13+67 30.10' LT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1)
2	STREET LIGHT	"CA" 15+14 44.93' LT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1)
3	STREET LIGHT	"CA" 16+39 44.98' LT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1)
4	STREET LIGHT	"CA" 17+59 49.00' LT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1)
5	STREET LIGHT	"CA" 14+42 29.30' RT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1)
6	STREET LIGHT	"CA" 15+79 49' RT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1)
7	STREET LIGHT	"CA" 16+99 49' RT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1)
8	STREET LIGHT	"CA" 20+02 54.11' RT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1)
9	STREET LIGHT	"CA" 20+62 62.42' LT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1)
10	STREET LIGHT	"CA" 21+82 66.69' LT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1)
11	STREET LIGHT	"CA" 23+02 69.46' LT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1)
12	STREET LIGHT	"CA" 22+22 70.08' LT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1)
13	STREET LIGHT	"CA" 26+20 62' LT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1 & 3)
14	STREET LIGHT	"CA" 27+40 62' LT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1 & 2)

LIGHT POLE SCHEDULE						
POLE	POLE TYPE	STATION	CIRCUIT	NO. OF LUMINAIRES	WATTS/DIST	REMARKS
15	STREET LIGHT	"CA" 28+60 62' LT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1 & 2)
16	STREET LIGHT	"CA" 30+32 81.64' LT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1)
17	STREET LIGHT	"CA" 31+52 67.96' LT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1)
18	STREET LIGHT	"CA" 32+72 65.56' LT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1)
19	STREET LIGHT	"CA" 33+92 58.44' LT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1)
20	STREET LIGHT	"CA" 21+22 58.52' RT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1)
21	STREET LIGHT	"CA" 22+42 72.93' RT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1)
22	STREET LIGHT	"CA" 23+62 77.34' RT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1)
23	STREET LIGHT	"CA" 24+82 95.07' RT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1)
24	STREET LIGHT	"CA" 26+80 72' RT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1 & 2)
25	STREET LIGHT	"CA" 28+00 72' RT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1 & 2)
26	STREET LIGHT	"CA" 29+20 72' RT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1 & 2)
27	STREET LIGHT	"CA" 30+92 80.17' RT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1)
28	STREET LIGHT	"CA" 32+12 77.76' RT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1)

LIGHT POLE SCHEDULE						
POLE	POLE TYPE	STATION	CIRCUIT	NO. OF LUMINAIRES	WATTS/DIST	REMARKS
29	STREET LIGHT	"CA" 33+32 75.36' RT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1 & 2)
30	STREET LIGHT	"CA" 34+52 72.95' RT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1)
31	STREET LIGHT	"CA" 35+12 50.76' LT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1)
32	STREET LIGHT	"CA" 36+32 49' LT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1)
33	STREET LIGHT	"CA" 37+52 49' LT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1)
34	STREET LIGHT	"CA" 38+72 49' LT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1)
35	STREET LIGHT	"CA" 39+80 49' LT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1)
36	STREET LIGHT	"CA" 42+32 49' LT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1)
37	STREET LIGHT	"CA" 43+52 49.44' LT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1 & 2)
38	STREET LIGHT	"CA" 44+72 52.02' LT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1)
39	STREET LIGHT	"CA" 45+92 54.42' LT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1)
40	STREET LIGHT	"CA" 47+12 56.64' LT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1)
41	STREET LIGHT	"CA" 48+32 59' LT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1)
42	STREET LIGHT	"CA" 35+72 70.55' RT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1)

NOTE:

- INSTALL STREET LIGHT POLES PER USDCCA DWG NOS. 313, 316, 318, 319, 320, 321, AND 322A.
- FOR FOUNDATION ON BRIDGE DETAILS, SEE SHEETS B-37.

PLOT DATE: Thursday, 10/22/2008 10:57:59 PM
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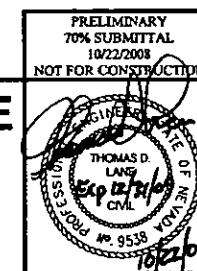
REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE

DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
LIGHTING SCHEDULES

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 1014 DRAWN BY: ALB
 DESIGNED BY: ALB CHECKED BY: NLG
 APPROVED BY: TDL
THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119
 PHONE (702) 736-0632 • FAX (702) 736-0704

SCALE: _____
 HORIZ: NONE
 VERT: NONE
 FIELD BOOK: NONE
 WORK ORDER: 2008

SHEET No
L-6

LIGHT POLE SCHEDULE						
POLE	POLE TYPE	STATION	CIRCUIT	NO. OF LUMINAIRES	WATTS/DIST	REMARKS
43	STREET LIGHT	"CA" 36+92 68.14' RT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1)
44	STREET LIGHT	"CA" 37+12 65.74' RT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1)
45	STREET LIGHT	"CA" 37+32 63.35' RT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1)
46	STREET LIGHT	"CA" 41+72 49' RT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1)
47	STREET LIGHT	"CA" 42+92 49' RT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1)
48	STREET LIGHT	"CA" 44+12 49' RT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1)
49	STREET LIGHT	"CA" 45+32 49' RT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1)
50	STREET LIGHT	"CA" 46+52 49' RT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1)
51	STREET LIGHT	"CA" 47+72 49' RT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1)
52	STREET LIGHT	"CA" 48+92 49' RT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1)
53	STREET LIGHT	"CA" 49+52 59' LT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1)
54	STREET LIGHT	"CA" 50+12 49' RT	-	1	250W MC3	15' ARM (SEE NOTE NO. 1)

NOTE:

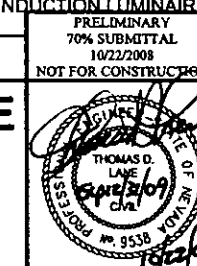
- INSTALL STREET LIGHT POLES PER USDCCA DWG NOS. 313, 316, 318, 319, 320, 321, AND 322A.

NEW SERVICE POINT SP-1	CIRCUIT 1-A	CIRCUIT 1-B
SERVICE POINT CAPACITY (AMPS)	60.0	60.0
MAXIMUM ALLOWABLE DRAW (AMPS)	48.0	48.0
EXISTING CIRCUIT LOAD (AMPS)	0.0	0.0
PROPOSED LUMINAIRE LOAD TO CIRCUIT		
NUMBER OF 70 WATTS @ 0.5 AMPS		
NUMBER OF 150 WATTS @ 1.0 AMPS		
NUMBER OF 250 WATTS @ 1.6 AMPS		
NUMBER OF 400 WATTS @ 2.6 AMPS		
EXISTING + PROPOSED LOAD (AMPS)		
REMAINING AVAILABLE LOAD (AMPS)		
LOCATION XX		
AS OF X/XX/08 BY ALB		

NEW SERVICE POINT SP-2	CIRCUIT 2-A	CIRCUIT 2-B
SERVICE POINT CAPACITY (AMPS)	60.0	60.0
MAXIMUM ALLOWABLE DRAW (AMPS)	48.0	48.0
EXISTING CIRCUIT LOAD (AMPS)	0.0	0.0
PROPOSED LUMINAIRE LOAD TO CIRCUIT		
NUMBER OF 70 WATTS @ 0.5 AMPS		
NUMBER OF 150 WATTS @ 1.0 AMPS		
NUMBER OF 250 WATTS @ 1.6 AMPS		
NUMBER OF 400 WATTS @ 2.6 AMPS		
EXISTING + PROPOSED LOAD (AMPS)		
REMAINING AVAILABLE LOAD (AMPS)		
LOCATION XX		
AS OF X/XX/08 BY ALB		

NEW SERVICE POINT SP-3	CIRCUIT 3-A	CIRCUIT 3-B
SERVICE POINT CAPACITY (AMPS)	60.0	60.0
MAXIMUM ALLOWABLE DRAW (AMPS)	48.0	48.0
EXISTING CIRCUIT LOAD (AMPS)	0.0	0.0
PROPOSED LUMINAIRE LOAD TO CIRCUIT		
NUMBER OF 70 WATTS @ 0.5 AMPS		
NUMBER OF 150 WATTS @ 1.0 AMPS		
NUMBER OF 250 WATTS @ 1.6 AMPS		
NUMBER OF 400 WATTS @ 2.6 AMPS		
EXISTING + PROPOSED LOAD (AMPS)		
REMAINING AVAILABLE LOAD (AMPS)		
LOCATION XX		
AS OF X/XX/08 BY ALB		

LUMINAIRE SCHEDULE			
MANUFACTURER AND CATALOG NUMBER	LAMPS	DESCRIPTION AND REMARKS	VOLTS
GENERAL ELECTRIC CAT. NO. MSRL-25-S-3-A-1-2-G-MC3-1 OR APPROVED EQUAL	54	250 WATT, HIGH PRESSURE SODIUM LUMINAIRE WITH IES DISTRIBUTION MC3, COBRA HEAD	240
HIGH MAST LUMINAIRES	88	400 WATT, HIGH PRESSURE SODIUM LUMINAIRE WITH IES DISTRIBUTION MC5, HIGH MAST	240
UNDERPASS LUMINAIRES	16	70 WATT, HIGH PRESSURE SODIUM LUMINAIRE	240
SIGN LUMINAIRES	8	85 WATT, INDUCTION LUMINAIRE	240

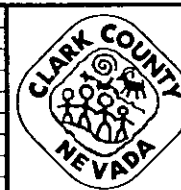


PROJECT No: 1014 DRAWN BY: ALB
DESIGNED BY: ALB CHECKED BY: NLG
APPROVED BY: TDL

PRELIMINARY
70% SUBMITTAL
10/22/2008
NOT FOR CONSTRUCTION

THE Louis Berger Group, INC.
500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119
PHONE (702) 736-6632 • FAX (702) 736-6704

SCALE	SHEET No
HORIZ: NONE	L-7
VERT: NONE	
FIELD BOOK: NONE	
WORK ORDER: 2008-	

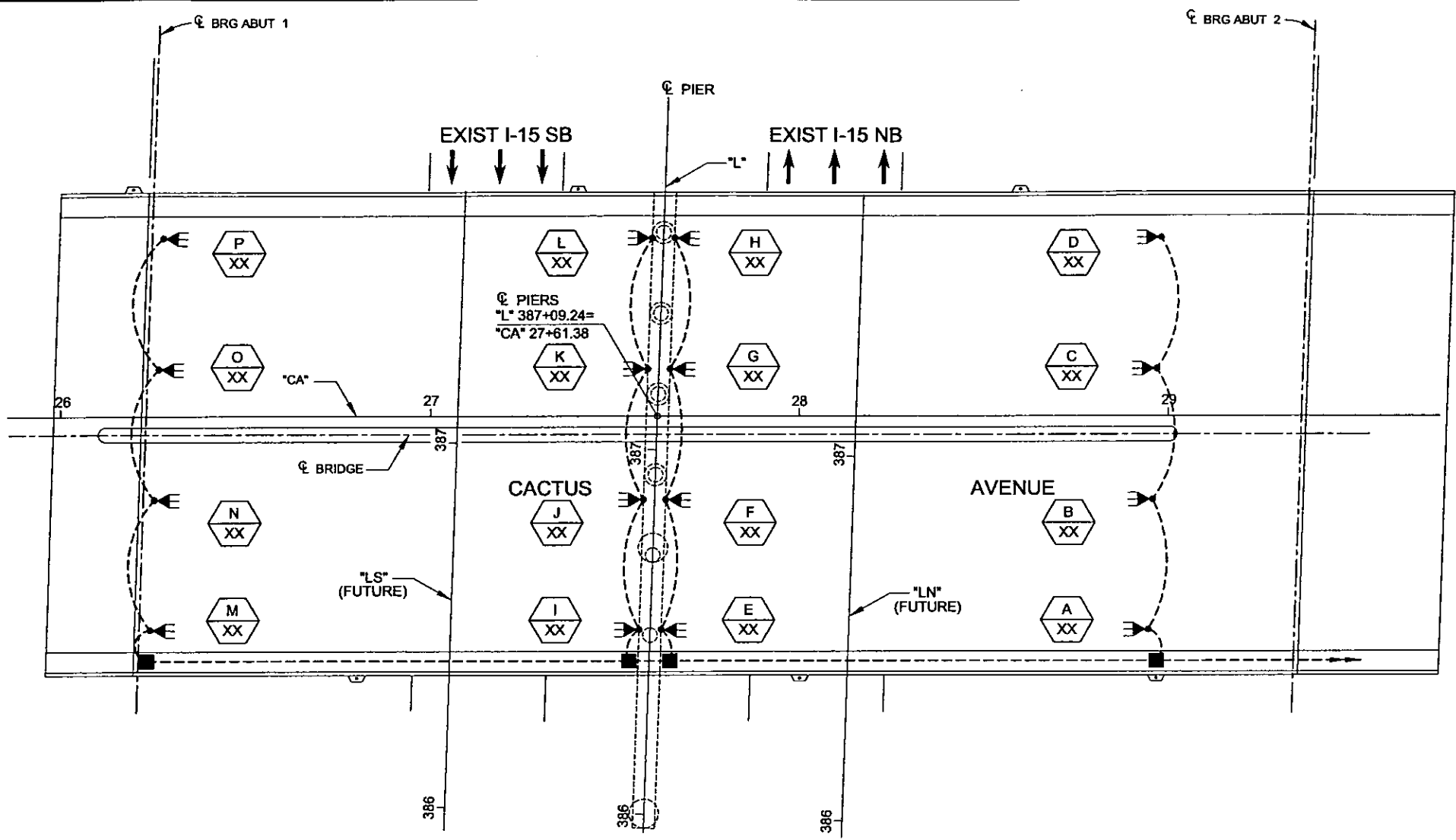


CACTUS AVENUE / I-15 INTERCHANGE
DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
LIGHTING SCHEDULES

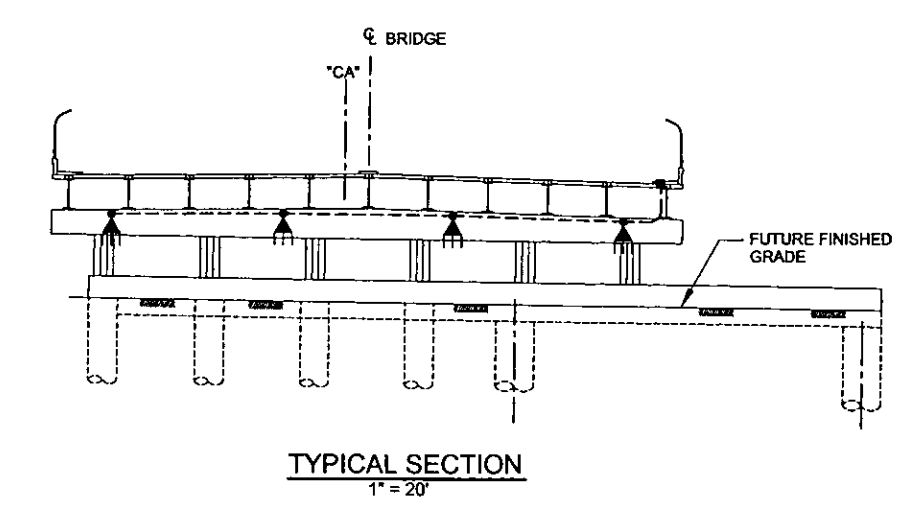
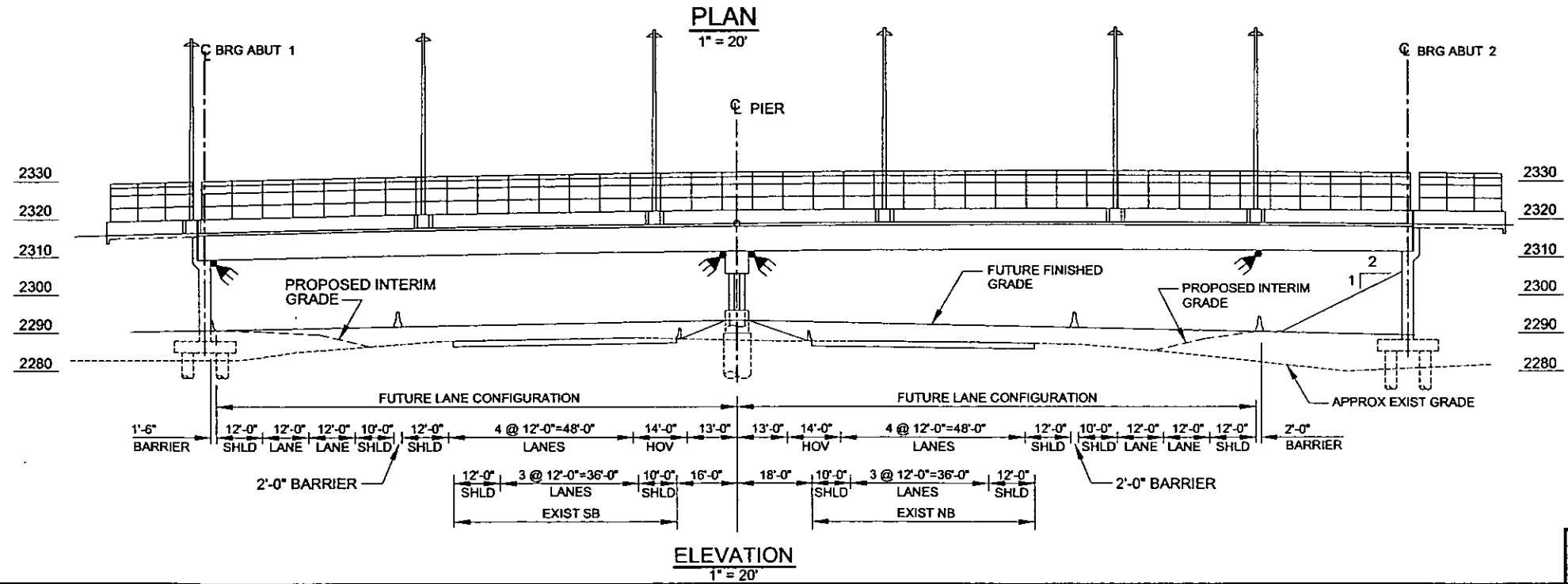
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

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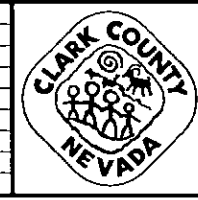


LUMINAIRE SCHEDULE						
POLE	LUMINAIRE TYPE	STATION	CIRCUIT	NO. OF LUMINAIRES	WATTS/DIST	REMARKS
A	TYPE "C"	"CA" 28+94.30 58.50' RT	-	1	70W SN4	
B	TYPE "C"	"CA" 28+95.56 22.83' RT	-	1	70W SN4	
C	TYPE "C"	"CA" 28+96.83 12.83' LT	-	1	70W SN4	
D	TYPE "C"	"CA" 28+98.09 48.49' LT	-	1	70W SN4	
E	TYPE "B"	"CA" 27+62.31 58.50' RT	-	1	70W SN4	
F	TYPE "B"	"CA" 27+63.57 22.83' RT	-	1	70W SN4	
G	TYPE "B"	"CA" 27+64.83 12.83' LT	-	1	70W SN4	
H	TYPE "B"	"CA" 27+66.09 48.49' LT	-	1	70W SN4	
I	TYPE "B"	"CA" 27+56.31 58.50' RT	-	1	70W SN4	
J	TYPE "B"	"CA" 27+57.57 22.83' RT	-	1	70W SN4	
K	TYPE "B"	"CA" 27+58.83 12.83' LT	-	1	70W SN4	
L	TYPE "B"	"CA" 27+60.09 48.49' LT	-	1	70W SN4	
M	TYPE "B"	"CA" 26+24.31 58.50' RT	-	1	70W SN4	
N	TYPE "B"	"CA" 26+25.57 22.83' RT	-	1	70W SN4	
O	TYPE "B"	"CA" 26+26.84 12.83' LT	-	1	70W SN4	
P	TYPE "B"	"CA" 26+28.10 48.49' LT	-	1	70W SN4	



PLOT DATE: Tuesday, October 21, 2008 8:08:38 PM
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 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE

DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
UNDERPASS LIGHTING PLAN

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

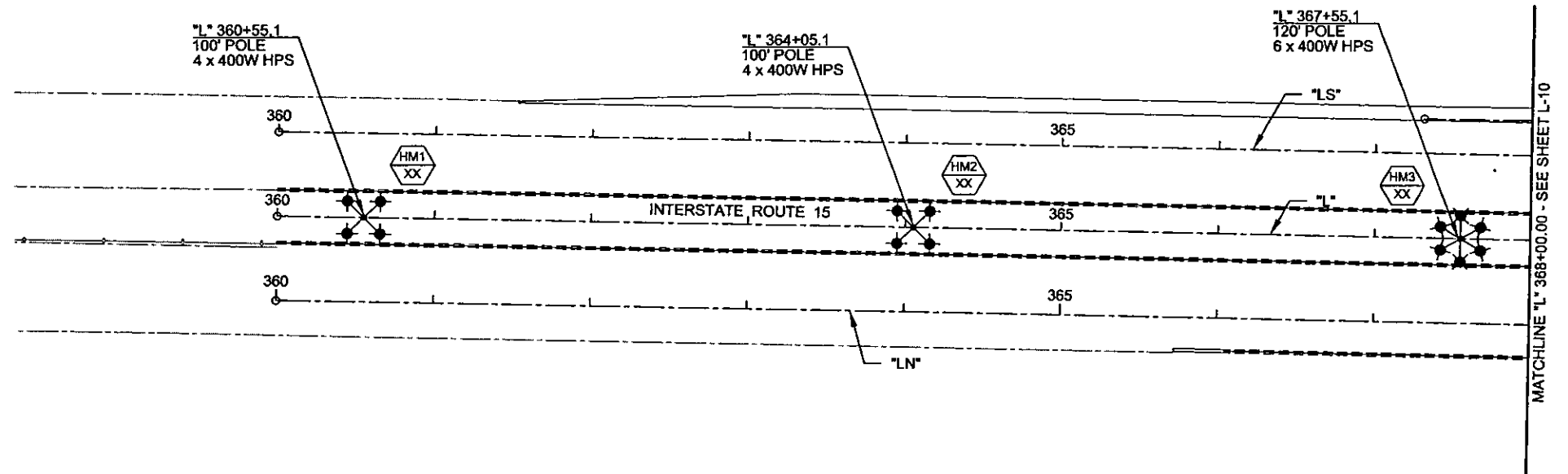
PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

PROJECT No: 1014 DRAWN BY: ALB
 DESIGNED BY: ALB CHECKED BY: NLG
 APPROVED BY: TDL

SCALE: _____
 HORIZ: AS SHOWN
 VERT: NONE
 FIELD BOOK: NONE
 WORK ORDER: 2008-

SHEET No
L-8

CACTUS AVENUE / I-15 INTERCHANGE



PLOT DATE: Tuesday, October 22, 2008 10:38:48 PM
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REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
LIGHTING PLAN
 "L" 360+00.00 to "L" 368+00.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

PROJECT No: 1014 DRAWN BY: ALB
 DESIGNED BY: ALB CHECKED BY: NLG
 APPROVED BY: TDL

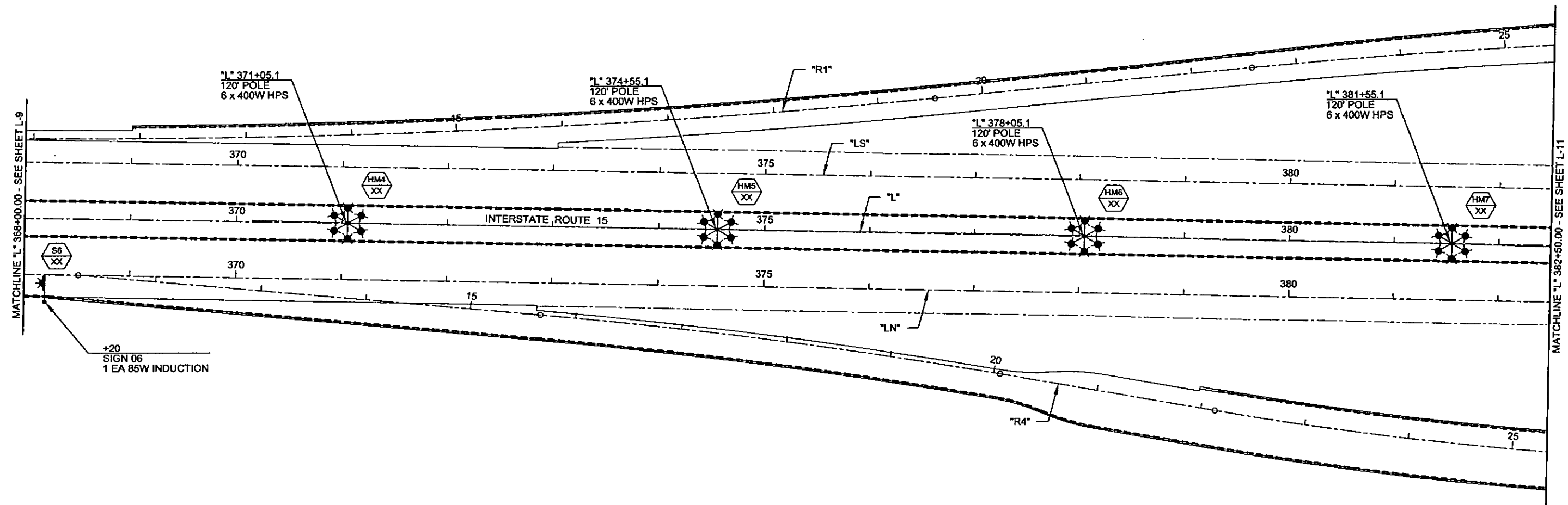
THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119
 PHONE (702) 730-0632 • FAX (702) 730-0704



SCALE
 HORIZ: AS SHOWN
 VERT: NONE
 FIELD BOOK: NONE
 WORK ORDER: 2008-

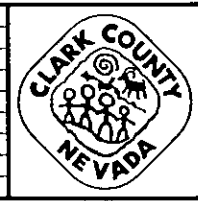
SHEET No
L-9

CACTUS AVENUE / I-15 INTERCHANGE

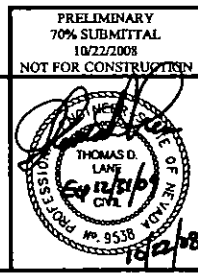


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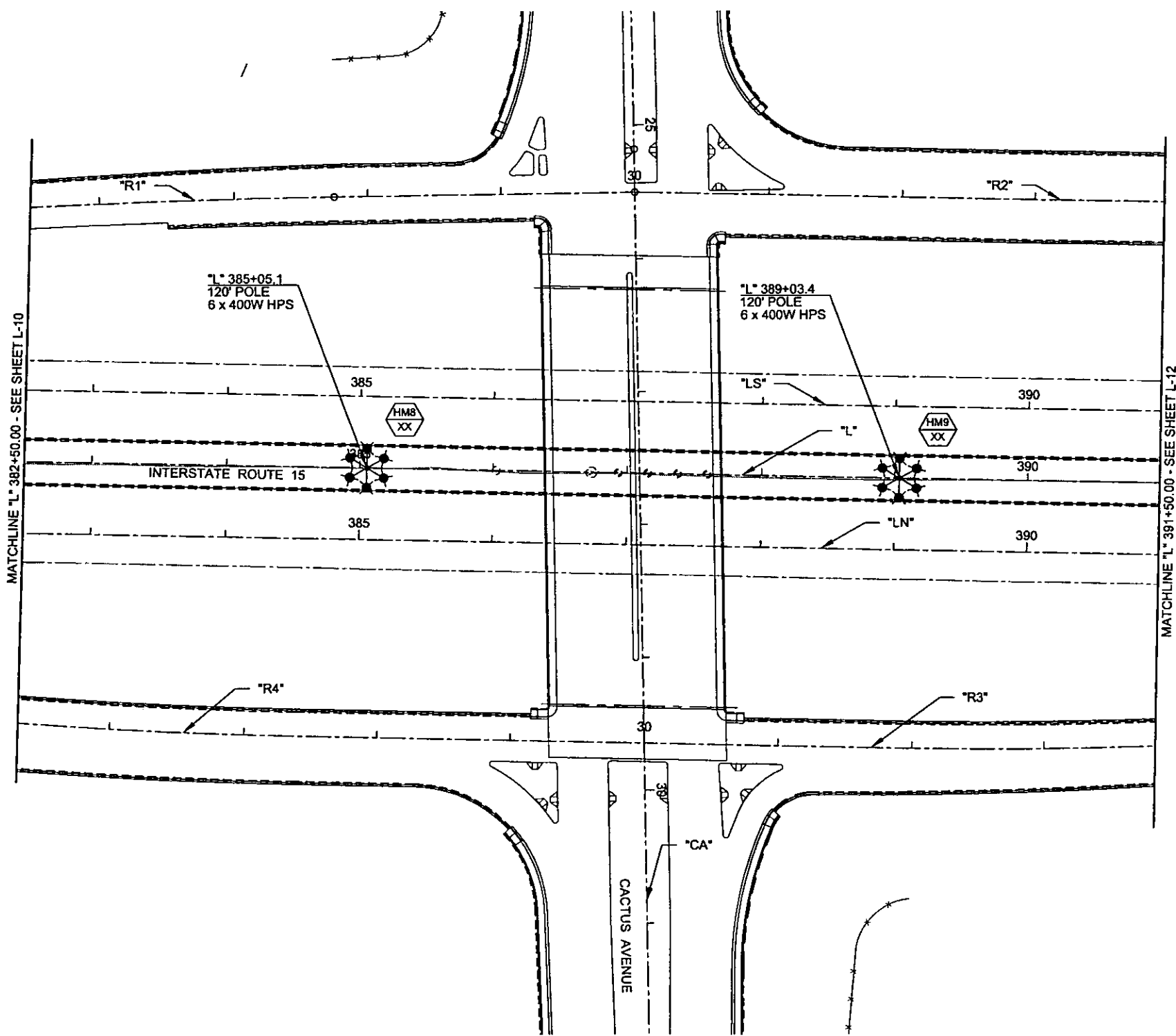
CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
LIGHTING PLAN
 "L"368+00.00 to "L" 382+50.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 1014 DRAWN BY: ALB
 DESIGNED BY: ALB CHECKED BY: NLG
 APPROVED BY: TDL
THE Louis Berger Group, Inc.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119
 PHONE (702) 736-0832 • FAX (702) 736-0704

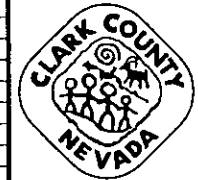
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 WORK ORDER: 2008-

SHEET No
L-10



PLOT DATE: Tuesday, October 20, 2008 8:05:58 PM
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REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
LIGHTING PLAN
 "L" 382+50.00 to "L" 391+50.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

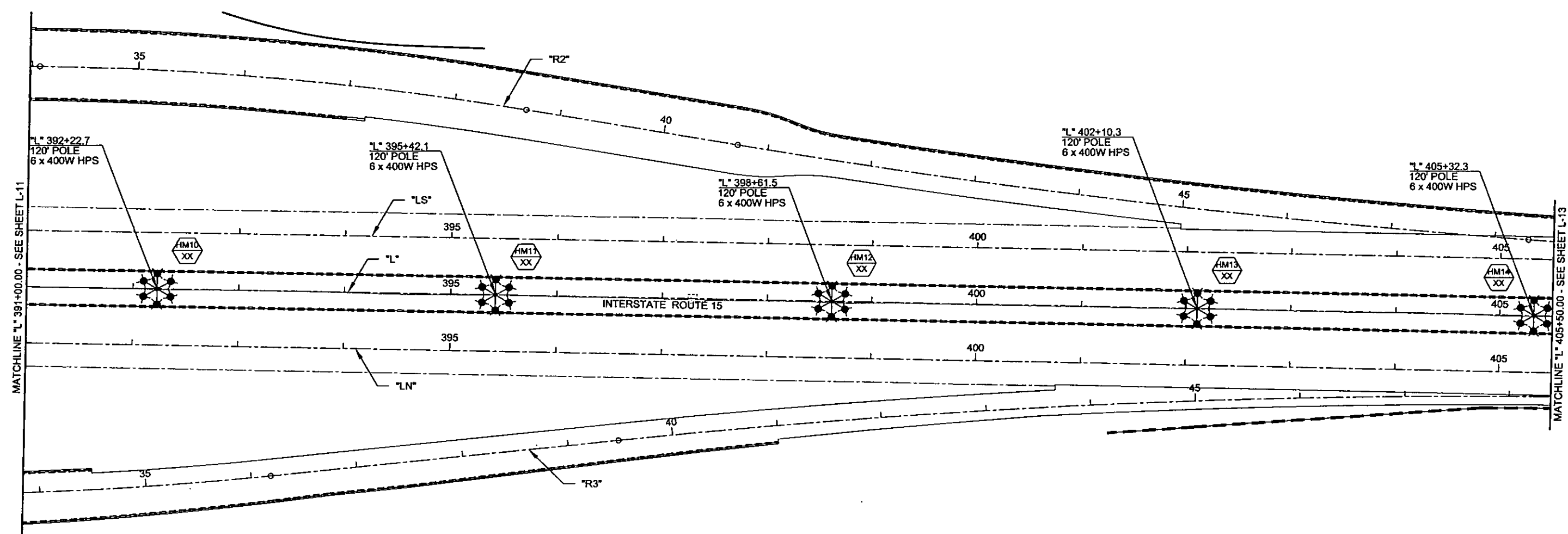
PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

THOMAS D. LANIER
 CIVIL
 10/22/08

PROJECT No: 1014 DRAWN BY: ALB
 DESIGNED BY: ALB CHECKED BY: M.G.
 APPROVED BY: TDL

THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119
 PHONE (702) 736-6632 • FAX (702) 736-0704

SCALE		SHEET No
HORIZ:	AS SHOWN	L-11
VERT:	NONE	
FIELD BOOK	NONE	
WORK ORDER	2008-	



PLOT DATE: Tuesday, October 14, 2008 8:18:33 PM
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 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
LIGHTING PLAN
 "L" 391+00.00 to "L" 405+50.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

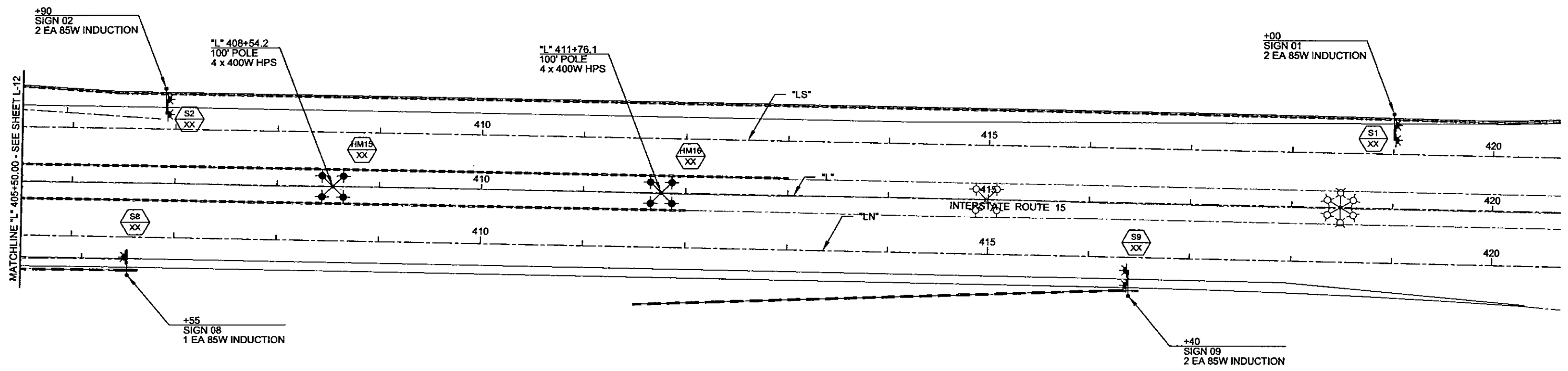
PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

PROJECT No: 1014 DRAWN BY: ALB
 DESIGNED BY: ALB CHECKED BY: NLG
 APPROVED BY: TDL

THE Louis Berger Group, Inc.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89118
 PHONE (702) 736-6632 • FAX (702) 736-0704

SCALE	
HORIZ:	AS SHOWN
VERT:	NONE
FIELD BOOK:	NONE
WORK ORDER:	2008-

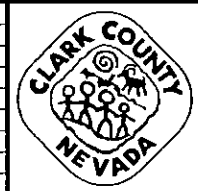
SHEET No
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 REFERENCE FILES:



REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
LIGHTING PLAN
 "L" 405+50.00 to "L" 420+50.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

PROJECT No: 1014 DRAWN BY: ALB
 DESIGNED BY: ALB CHECKED BY: NLG
 APPROVED BY: TDL

THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 *LAS VEGAS, NEVADA *89119
 PHONE (702) 736-0632 *FAX (702) 736-0704

SCALE	HORIZ: AS SHOWN	VERT: NONE	FIELD BOOK: NONE	WORK ORDER: 2008-
SHEET No				L-13

LEGEND

PROPOSED	EXISTING	
---	---	- CONDUIT RUN
■	□	- PULL BOX
●	○	- SIGNAL POLE, POST
☒	☒	- CONTROLLER CABINET
■	■	- PADMOUNT ELECTRICAL SERVICE
●	○	- HIGH PRESSURE SODIUM LUMINAIRE - 400 WATT
▲	▲	- TRAFFIC SIGNAL INDICATION WITH BACKPLATE
▲	▲	- TRAFFIC SIGNAL INDICATION WITH DIRECTIONAL ARROW AND BACKPLATE
▲	▲	- PEDESTRIAN INDICATION AND DIRECTION
▬	▬	- STREET NAME SIGN INTERNALLY ILLUMINATED
		- CONDUIT RUN DESIGNATION
		- TRAFFIC SIGNAL ON MAST ARM
		- TRAFFIC SIGNAL AND LUMINAIRE ON MAST ARMS
		- PRIORITY VEHICLE PREEMPTION OPTICAL DETECTOR (OPTICOM OR APPROVED EQUAL)
		- SIGNAL POLE DESIGNATION
		- VIDEO INCIDENT DETECTION CAMERA
		- TRAFFIC SIGNAL SIGN
		- VEHICLE DETECTOR INDUCTIVE LOOP

SIGNAL MODIFICATION NOTE

1. MODIFY TRAFFIC SIGNAL AT SUNSET ROAD / VALLEY VIEW BOULEVARD INTERSECTION AS FOLLOWS: REMOVE PHASE 8+3 FIVE SECTION SIGNAL HEAD FROM MAST ARM OF POLE ON THE NORTHWEST CORNER. INSTALL TWO NEW PHASE 3 LEFT ARROW SIGNAL HEADS ON MAST ARM. ADJUST VIDEO CAMERA DETECTION ZONE FOR NEW DUAL-LEFT PHASE 3 MOVEMENT (SEE STRIPING SHEETS).

TRAFFIC SIGNAL NOTES

- 00. THESE NOTES ARE EFFECTIVE AS OF 09/23/2008 AND SHALL SUPERSEDE ALL PREVIOUS VERSIONS.
- 01. THE CONSTRUCTION SHALL CONFORM TO THESE PLANS AND SHALL BE IN ACCORDANCE TO THE SPECIAL PROVISIONS.
- 02. INSTALLATION OF TRAFFIC SIGNAL COMPONENTS SHALL BE SUPERVISED BY A CERTIFIED IMSA LEVEL II TRAFFIC SIGNAL ELECTRICIAN OR LEVEL II TRAFFIC SIGNAL TECHNICIAN. THIS SHALL INCLUDE THE INSTALLATION OF ALL UNDERGROUND CONDUIT AND CONDUIT BENDS.
- 03. TWO (2) WEEKS PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL CALL CLARK COUNTY TRAFFIC OPERATIONS AT (702) 455-7544 (BRENT CLAUSON) FOR COORDINATION.
- 04. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL UNDERGROUND AND AERIAL UTILITIES AND INFRASTRUCTURES LIKELY TO BE AFFECTED BY THEIR WORK. THE LOCATION OF UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED PROMPTLY IN A MANNER SATISFACTORY TO THE UTILITIES' OWNERS AT THE CONTRACTOR'S EXPENSE.
- 05. THE CONTRACTOR SHALL BE RESPONSIBLE TO RESTORE ANY DAMAGE OR MODIFICATION TO LANDSCAPE/IRRIGATION TO PRE-CONSTRUCTION CONDITION.
- 06. REMOVAL AND REPLACEMENT OF ANY CURB, GUTTER AND SIDEWALK REQUIRED TO INSTALL THE TRAFFIC SIGNAL INFRASTRUCTURE SHALL BE INCLUDED IN THE LUMP SUM COST OF THE TRAFFIC SIGNAL.
- 07. CONTRACTOR SHALL RESTORE ALL PAVEMENT MARKINGS DAMAGED DUE TO OR BY CONSTRUCTION OR AS SHOWN ON THE PLANS. THE TRAFFIC SIGNAL SHALL NOT BE ENERGIZED WITHOUT THE PROPER PAVEMENT MARKINGS IN-PLACE.
- 08. ALL STOP SIGNS, STOP AHEAD SIGNS AND/OR FLASHING BEACON ASSEMBLIES OR ANY OTHER TRAFFIC CONTROL DEVICES THAT MAY BE IN CONFLICT WITH THE TRAFFIC SIGNAL SHALL BE REMOVED AT TIME OF TRAFFIC SIGNAL ACTIVATION AND RETURNED TO THE CLARK COUNTY TRAFFIC OPERATIONS DIVISION, 4315 S. STEPHANIE ST., LAS VEGAS, NEVADA 89122. THE CONTRACTOR SHALL REMOVE SIGN POSTS AND POST ANCHOR AND PATCH HOLES WITH CONCRETE.
- 09. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL INSTALLED INDUCTION LOOPS AND ENSURING THAT THE FRONT EDGE OF EACH STOP BAR IS LOCATED TWO (2) FEET BEHIND THE FRONT EDGE OF THE INDUCTION LOOP.
- 10. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL EXISTING INDUCTION LOOPS AND HOME RUNS TO THE PULL BOXES REMAIN UN CUT AND OPERATIONAL. REPAIR OF DAMAGED INDUCTION LOOPS AND HOME RUNS SHALL BE INCLUDED IN THE LUMP SUM OF THE TRAFFIC SIGNAL.
- 11. ANY SIGN TEMPORARILY COVERED ON A MAST ARM SHALL BE MASKED WITH A COVER APPROVED BY THE CLARK COUNTY TRAFFIC MANAGER. TAPE SHALL NOT BE APPLIED TO THE FACE OF ANY SIGN. ANY SIGN THAT HAS HAD TAPE APPLIED TO THE REFLECTIVE SURFACE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- 12. ALL MAST ARM MOUNTED SIGNS 24 INCHES BY 24 INCHES OR GREATER SHALL BE MOUNTED USING BACK-BRACING STRAPS.
- 13. THE FOLLOWING CLARK COUNTY UNDERGROUND FACILITIES MAY BE LOCATED IN YOUR PROJECT AREA: **FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION (F.A.S.T.)** INTERCONNECT CABLE. CONTRACTOR MUST CONTACT F.A.S.T. AT 702-432-5300 FOR UNDERGROUND LINE LOCATIONS

- CONDUITS/PULL BOXES/CABLES**
- 100. F.A.S.T. INTERCONNECT CABLE POLICY IS IN EFFECT. INTERCONNECT CABLE MUST BE MAINTAINED AT ALL TIMES. DEVELOPER OR CONTRACTOR SHALL PROVIDE TEMPORARY OVERHEAD INTERCONNECT CABLE WHILE PERMANENT CABLE IS BEING RELOCATED OR REPAIRED. THE TEMPORARY AERIAL INSTALLATION MUST BE ACCEPTABLE TO CLARK COUNTY TRAFFIC MANAGEMENT AND TO F.A.S.T. ANY DAMAGE TO ANY INTERCONNECT CABLE IS DEEMED AN EMERGENCY BY CLARK COUNTY, F.A.S.T., CITY OF LAS VEGAS, CITY OF NORTH LAS VEGAS, CITY OF HENDERSON, AND NDOT AND MUST BE REPORTED AND REPAIRED IMMEDIATELY TO F.A.S.T. ACCEPTANCE.
 - 101. DAMAGES MAY BE ASSESSED AGAINST THE CONTRACTOR AFTER 24 HOURS HAS ELAPSED FROM THE TIME OF BREAK OR DAMAGE. **\$2,500 PER DAY FOR DAMAGE TO COPPER WIRED INTERCONNECT CABLE AND \$7,500 PER DAY FOR DAMAGE TO FIBER OPTIC CABLE.**

- CONDUITS/PULL BOXES/CABLES (CONT'D)**
- 102. ALL SIGNAL CABLE SHALL CONFORM TO I.M.S.A. #20-1 AND SHALL BE A 25 CONDUCTOR CABLE. ALL CABLES SHALL BE INSTALLED FROM TERMINAL TO TERMINAL WITHOUT SPLICING.
 - 103. SIX (6) SINGLE CONDUCTOR UF WIRES SHALL BE PROVIDED FROM ALL EMPTY TENONS TO THE "J" BOX ON THE MAST ARM POLE. EACH WIRE SHALL BE A DIFFERENT COLOR.
 - 104. ALL EMPTY TRAFFIC SIGNAL OR STREET LIGHTING CONDUITS SHALL HAVE A #8 AWG THW-2 OR XHHW-2 GREEN CONDUCTOR RUN FROM PULL BOX TO PULL BOX.
 - 105. ALL INTERCONNECT / I.T.S. CONDUITS SHALL HAVE A 6-PAIR PE-39 #22 AWG TWISTED WIRE PAIR CABLE, WITH PULL STRING, CABLE IN EACH CONDUIT RUN BETWEEN EACH PULL BOX OR SPLICE VAULT.
 - 106. EACH CONDUCTOR OR LOOP CABLE SHALL HAVE A MINIMUM OF SIX (6) FEET AND A MAXIMUM OF TEN (10) FEET OF COILED SLACK WIRE IN EACH PULL BOX THE CONDUCTOR GOES THROUGH OR TERMINATES WITHIN.
 - 107. OPTICOM CABLE SHALL BE 3 PAIR NO. 20, 3M MODEL 138. ALL CABLES SHALL BE RUN FROM TERMINAL TO TERMINAL WITHOUT SPLICING.
 - 108. ONE #8 GREEN CONDUCTOR SHALL BE RUN FROM THE CONTROLLER TO ALL POLES AND PULL BOXES AS A BONDING GROUND. ALL PROPOSED CONDUITS SHALL HAVE A #8 AWG GREEN THW-2 OR XHHW 2 CONDUCTOR INSTALLED.
 - 109. THE CONTRACTOR SHALL BE RESPONSIBLE FOR GROUNDING THE COMPLETE TRAFFIC SIGNAL ELECTRICAL SYSTEM INCLUDING ALL EXISTING POLES, CABINETS, SERVICE PEDESTALS, PULL BOXES AND ELECTRICAL DEVICES IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND THE UNIFORM STANDARD DRAWINGS.
 - 110. ALL EXISTING TRAFFIC SIGNAL RELATED No 3½, No. 5, AND No. 7 METAL PULL BOX COVERS SHALL BE REPLACED WITH A RESIN POLYMER REINFORCED NON-CONDUCTIVE COVER MARKED "TRAFFIC SIGNAL".
 - 111. ALL NEW TRAFFIC SIGNAL RELATED PULL BOXES SHALL BE CONCRETE AND HAVE A RESIN POLYMER REINFORCED NON-CONDUCTIVE COVER MARKED "TRAFFIC SIGNAL".
 - 112. ALL EXISTING TRAFFIC SIGNAL INTERCONNECT RELATED METAL P30 PULL BOX COVERS SHALL BE REPLACED WITH A RESIN POLYMER REINFORCED NON-CONDUCTIVE COVER MARKED "FIBER OPTIC".
 - 113. ALL NEW TRAFFIC SIGNAL INTERCONNECT RELATED P30 PULL BOXES SHALL BE CONCRETE AND HAVE A RESIN POLYMER REINFORCED NON-CONDUCTIVE COVER MARKED "FIBER OPTIC".
 - 114. ALL EXISTING AND NEW TRAFFIC SIGNAL INTERCONNECT RELATED METAL T200 PULL BOX COVERS SHALL BE MARKED "FIBER OPTIC".
 - 115. ALL EXISTING STREET LIGHTING RELATED METAL PULL BOX COVERS SHALL BE REPLACED WITH A RESIN POLYMER REINFORCED NON-CONDUCTIVE COVER MARKED "STREET LIGHTING".
 - 116. ALL NEW STREET LIGHTING PULL BOXES SHALL BE CONCRETE AND WITH A RESIN POLYMER REINFORCED NON-CONDUCTIVE COVER MARKED "STREET LIGHTING".
 - 117. DOUBLE STACKED No. 7 PULL BOXES SHALL BE INSTALLED WHEN A NEW PULL BOX IS NEEDED FOR CONDUITS THAT RETAIN TRAFFIC SIGNAL CABLES AND AS SHOWN ON THE PLANS.
 - 118. INSTALL No. 5 PULL BOXES FOR PRESENCE INDUCTION LOOPS LOCATIONS AND OTHER TRAFFIC SIGNAL CONDUIT RUNS OF 1 OR 2 MAXIMUM.
 - 119. ALL NEW No. 5 PULL BOXES SHALL BE DOUBLE STACKED.
 - 120. INSTALL No. 3½ PULL BOXES ONLY FOR THE ADVANCE INDUCTION LOOPS.
 - 121. CONDUIT ROUTING AND PULL BOX LOCATION ARE SCHEMATIC FOR THE PURPOSE OF CLARITY AND MAY DIFFER FROM ACTUAL INSTALLATION. FINAL LOCATION OF PULL BOXES SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
 - 122. PULL BOXES SHALL NOT BE INSTALLED IN SIDEWALK RAMPS NOR IN OR WITHIN TEN (10) FEET OF ANY DRIVEWAY.
 - 123. ALL CONDUIT BENDS FOR TRAFFIC SIGNALS TERMINATING IN PULL BOXES, VAULTS, TRAFFIC SIGNAL POLES AND TRAFFIC CONTROLLER CABINETS SHALL BE PVC COATED RIGID STEEL UNLESS THE CONDUIT RUN IS SHORTER THAN THIRTY (30) FEET.

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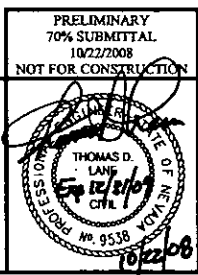
CACTUS AVENUE / I-15 INTERCHANGE

DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD

TRAFFIC SIGNAL LEGEND AND GENERAL NOTES

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PRELIMINARY
70% SUBMITTAL
10/22/2008
NOT FOR CONSTRUCTION



PROJECT No: 1014	DRAWN BY: WSH	SCALE:	SHEET No:
DESIGNED BY: JCM	CHECKED BY: NLG	HORIZ: AS SHOWN	T-1
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		WORK ORDER: 2008-	

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TRAFFIC SIGNAL NOTES (CONT'D)

CONDUITS/PULL BOXES/CABLES (CONT'D)

- 124. TRAFFIC SIGNAL AND STREET LIGHTING CONDUIT BENDS SHALL HAVE A 24 -INCH MINIMUM RADIUS REGARDLESS OF THE LENGTH OF THE CONDUIT.
- 125. FOR TRAFFIC SIGNAL INTERCONNECT CONDUITS FOR ENTRY INTO TRAFFIC SIGNAL INTERCONNECT PULL BOXES AND VAULTS OR TRAFFIC CONTROLLER CABINETS FOR CONDUIT RUNS:
 - LESS THAN THIRTY (30) FEET IN LENGTH, CONDUIT BENDS SHALL HAVE A 24-INCH MINIMUM RADIUS, AND
 - THIRTY (30) FEET OR MORE IN LENGTH, CONDUIT BENDS SHALL HAVE A 36-INCH MINIMUM RADIUS.
- 126. THE CONTRACTOR SHALL USE THE SAME TRENCH TO RUN BOTH THE PROPOSED TRAFFIC SIGNAL CONDUIT AND INTERCONNECT CONDUIT UNLESS OTHERWISE APPROVED BY THE CLARK COUNTY TRAFFIC MANAGER.
- 127. ALL CONDUITS SHALL EXTEND A MINIMUM OF SIX (6) INCHES ABOVE THE GROUND LEVEL OF THE BOTTOM OF A PULL BOX.
- 128. ALL PULL BOX COVERS SHALL HAVE A MINIMUM SIX (6) INCH CLEARANCE FROM ANY CONDUIT.
- 129. ALL CONDUIT OPENINGS SHALL BE SEALED WITH DUCT SEAL OR APPROVED EQUIVALENT.
- 130. INTERCONNECT CONDUITS SHALL HAVE A P30 OR T200 PULL BOX SPACED A MAXIMUM OF 750 FEET APART ON NON-CONTROLLED ACCESS FACILITIES AND 1000 FEET APART ON CONTROL ACCESS FACILITIES ALONG THE CONDUIT RUN.
- 131. ALL SINGLE CONDUCTOR WIRES INCLUDING STREETLIGHT AND SERVICE FEED CONDUCTORS SHALL BE MADE HOME CHECKED AT 1000 VOLTS FOR ONE MINUTE. WIRE INSULATION NOT EXCEEDING 100 MEGOHMS SHALL NOT BE ENERGIZED BUT SHALL BE IMMEDIATELY REPLACED AT THE CONTRACTOR'S EXPENSE.

DETECTION

- 200. ALL LOOP LEAD-IN CABLE SHALL CONFORM TO I.M.S.A. SPEC. #50-2. LOOP WIRE SHALL CONFORM TO I.M.S.A. SPEC. #51-5.
- 201. INDUCTION LOOP SEALANT USED SHALL BE HOT-MELT RUBBERIZED ASPHALT.
- 202. INDUCTION LOOP WIRES FROM THE PULL BOX TO THE INDUCTION LOOPS SHALL NOT BE INSTALLED IN AREAS WHERE FUTURE LOOPS MAY BE INSTALLED.
- 203. ALL NEW OR REPLACEMENT INDUCTION LOOPS SHALL BE INSTALLED USING CABLE-IN-DUCT WIRING OR PRE-FORMED LOOPS (AS SHOWN AND REQUIRED ON THE PLANS), SHALL HAVE INDEPENDENT LEAD-IN WIRES FOR EACH LOOP FROM THE CONTROLLER TO THE PULL BOX AND EACH LEAD-IN SHALL BE INDIVIDUALLY TAGGED.
- 204. IF REQUIRED BY THE TRAFFIC SIGNAL PLANS, THE CONTRACTOR SHALL FURNISH AND INSTALL INDUCTION LOOPS AND SINGLE CONDUCTOR WIRE WHICH SHALL BE TESTED FOR CONTINUITY AND INSULATION TO GROUND. MEGOHM TEST SHALL BE MADE AT 1000 VOLTS FOR ONE MINUTE. CONDUCTORS SHOWING LESS THAN 100 MEGOHMS RESISTANCE TO GROUND SHALL BE REPLACED. INDUCTION LOOPS SHALL BE INSTALLED AS CALLED OUT IN THE PLANS.
- 205. IF REQUIRED BY THE TRAFFIC SIGNAL PLANS, THE CONTRACTOR SHALL FURNISH AND INSTALL A VEHICLE VIDEO DETECTION SYSTEM WHICH SHALL BE ECONOLITE AUTOSCOPE RACK VISION, ITERIS EDGE OR PEEK TRAFFIC 910. CONTRACTOR SHALL PROVIDE ALL NECESSARY EQUIPMENT IN CONTROLLER CABINET. CONTRACTOR SHALL MOUNT CAMERAS ON THE TRAFFIC SIGNAL MAST ARM OR LUMINAIRE ARM USING A PELCO ATTACHMENT CONSISTING OF AN ASTRO BRACKET WITH A SIX (6) FOOT RISER. THE LOCATION OF THE CAMERA SHALL BE PLACED AT THE LOCATIONS AS SHOWN ON PLANS. CAMERAS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATION.
- 206. IF REQUIRED BY THE TRAFFIC SIGNAL PLANS, THE CONTRACTOR SHALL FURNISH AND INSTALL A VIDEO DETECTION SYSTEM WHICH SHALL HAVE THE CAPABILITY OF SENSING A VEHICLE ANYWHERE WITHIN THE "MINIMUM LIMITS OF DETECTION ZONE". ONE (1) COAXIAL CABLE AND THREE (3) - #10 THW-2 OR XHHW-2 (BLUE, WHITE AND GREEN) SHALL RUN FROM THE CONTROLLER CABINET TO EACH CAMERA. COAXIAL CABLE SHALL BE BELDEN 8281 WITH A BNC CONNECTOR AT EACH END. THE CAMERA COAXIAL CABLE SHALL RUN FROM THE VPU TO THE TRAFFIC SIGNAL POLE HAND HOLE, WITHOUT A SPLICE. THE CONTRACTOR SHALL PROVIDE SIX (6) FEET COAXIAL CABLE SLACK ON THE CAMERA SIDE OF THE COAXIAL CABLE RUN. WHERE POSSIBLE, THE CONTRACTOR SHALL SEPARATE SIGNAL CABLE FROM OPTICOM AND DETECTOR CABLE IN CONDUIT RUNS.

DETECTION (CONT'D)

- 207. IF REQUIRED BY THE TRAFFIC SIGNAL PLANS, THE CONTRACTOR SHALL FURNISH AND INSTALL A WAVETRONIX ADVANCE DETECTOR SYSTEM COMPLETE, IN-PLACE AND OPERATIONAL. THE CONTRACTOR SHALL PROVIDE A WAVETRONIX SMARTSENSOR ADVANCE MODEL 200 DETECTOR AT EACH LOCATION SHOWN ON THE PLANS. THE CONTRACTOR SHALL PROVIDE, AS PART OF THE EQUIPMENT, A DIN RAIL WITH WAVETRONIX "CLICK" MODULES (POWER CONVERTER, SURGE PROTECTION AND CONTACT CLOSURES). THE CONTRACTOR SHALL PROVIDE ALL CABLING AND WIRING PER MANUFACTURER'S REQUIREMENTS. THE CONTRACTOR SHALL PROVIDE, SETUP AND INSTALL ALL VENDOR OPERATIONAL SOFTWARE REQUIRED FOR THE DIFFERENT SYSTEMS IDENTIFIED ON THESE PLANS.
- 208. IF REQUIRED BY THE TRAFFIC SIGNAL PLANS, THE CONTRACTOR SHALL FURNISH AND INSTALL A RADAR DETECTION SYSTEM WHICH SHALL HAVE THE CAPABILITY OF SENSING A VEHICLE ANYWHERE WITHIN ONE HUNDRED (100) FEET OF SENSOR TO THREE HUNDRED AND SIXTY (360) FEET IN ADVANCE OF STOP LINE FOR THE THROUGH LANES. ONE (1) BELDEN 9331 CABLE SHALL RUN FROM THE CONTROLLER CABINET TO EACH SENSOR. THE BELDEN 9331 CABLE SHALL RUN FROM THE CONTROLLER CABINET TO THE RADAR DETECTOR WITHOUT A SPLICE. THE CONTRACTOR SHALL PROVIDE SIX (6) FEET CABLE SLACK ON THE SENSOR SIDE OF THE BELDEN 9331 CABLE RUN. WHERE POSSIBLE, THE CONTRACTOR SHALL SEPARATE SIGNAL CABLE FROM OPTICOM AND DETECTOR CABLE IN CONDUIT RUNS.
- 209. THE FRONT OF THE ADVANCED INDUCTION LOOPS SHALL NORMALLY BE PLACED IN ADVANCE OF THE FRONT OF THE PRESENCE LOOPS (AT THE STOP BAR) IN ACCORDANCE WITH THE ULTIMATE FULL STREET RIGHT OF WAY (R.O.W.) WIDTH:
 - 90 FOOT OR GREATER R.O.W. - 360 FEET
 - 70 TO LESS THAN 90 FEET R.O.W. - 250 FEET
 - LESS THAN 70 FOOT R.O.W. - 155 FEET
 VARIANCES MUST BE APPROVED BY THE TRAFFIC MANAGER.

POLES AND HARDWARE

- 300. POLE ASSEMBLIES, LUMINAIRE MAST ARMS AND BRACKETS, ANCHOR-BOLT AND HANDHOLE COVERS AND POLE AND MAST ARM CAPS SHALL BE HOT-DIP GALVANIZED IN CONFORMANCE WITH ASTM DESIGNATION A123. ASSOCIATED HARDWARE SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION A153. FLAWS IN THE APPEARANCE OF GALVANIZED COMPONENTS SHALL BE CAUSE FOR REJECTION BY THE OWNER. THE OWNER SHALL REJECT GALVANIZED MATERIALS WITH FINISHES THAT HAVE A STRIPED OR UNEVEN APPEARANCE, A BUILD-UP OF ZINC HYDROXIDE, RUST STAINS, ASH INCLUSIONS, DROSS PROTRUSIONS AND/OR FLUX INCLUSIONS. GALVANIZED MATERIALS THAT EXHIBIT A SPIDERY APPEARANCE, A BLOTCHY OR SPOTTED APPEARANCE, OR THAT HAVE A GENERAL SURFACE ROUGHNESS OR EXHIBIT LUMPINESS OR RUNS IN THE FINISH SHALL ALSO BE REJECTED.
- 301. EXISTING TRAFFIC SIGNAL AND/OR LIGHTING EQUIPMENT REMOVED AND NOT REUSED ON THE PROJECT SHALL BE SALVAGED BY THE CONTRACTOR AND DELIVERED TO CLARK COUNTY TRAFFIC OPERATIONS, 4315 S. STEPHANIE ST., LAS VEGAS, NV. BY APPOINTMENT ONLY. 702-455-7544. ALL STREET LIGHTING LAMPS SHALL BE SEPARATED FROM THE LUMINAIRES PRIOR TO DELIVERY TO THE COUNTY AND THE LAMPS SHALL BE DISPOSED OF PROPERLY.
- 302. THE FINAL POLE LOCATIONS SHALL BE DETERMINED AT THE TIME OF CONSTRUCTION AND SHALL BE APPROVED BY THE CLARK COUNTY TRAFFIC MANAGEMENT DIVISION. ALL SIGNAL POLE INSTALLATIONS SHALL BE IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS AND SHALL NOT BE DRILLED WITHOUT PRIOR APPROVAL OF THE CLARK COUNTY TRAFFIC MANAGER.
- 303. CONTRACTOR SHALL ENSURE THAT THE TRAFFIC SIGNAL POLES ARE PLUMB AFTER THE INSTALLATION OF THE MAST ARMS AND TRAFFIC SIGNAL HEADS.
- 304. THE CONTRACTOR IS TO INSTALL BLANK 24" x 30" SIGN PANEL(S) HORIZONTALLY ON ALL MAST ARMS REQUIRING VIDEO DETECTION CAMERA AND/OR IF THE MAST ARM EXCEEDS SIXTY (60) FEET IN LENGTH. COORDINATE WITH BRENT CLAUSON (702) 455-7544 FOR DETAILS.
- 305. CONTRACTOR TO INSTALL McCain RED LIGHT RUNNING INDICATOR MODELS M61385 (RED) AND M61448 (BLUE) AS SHOWN ON THE POLE SCHEDULE FOR EACH INTERSECTION. RED INDICATORS SHALL BE MOUNTED 16" ABOVE POLE BASE PLATE AND BLUE INDICATORS SHALL BE MOUNTED 17" ABOVE POLE BASE PLATE. FINAL ALIGNMENT OF LED INDICATORS SHALL BE COORDINATED THROUGH CLARK COUNTY TRAFFIC OPERATIONS. CONTACT BRENT CLAUSON AT 455-7544. CONTRACTOR SHALL WIRE INDICATORS DIRECTLY TO BUSS IN "J" BOX PER CALL OUT PHASING IN POLE SCHEDULE.
- 306. MODEL 722 (TWO-WAY) OPTICOM DETECTORS SHALL BE MOUNTED ON TOP OF THE LEFT-MOST END OF THE MAST ARM. THE CONTROLLER SHALL BE EQUIPPED FOR OPTICOM PRE-EMPTION USING TWO (2) CONTRACTOR SUPPLIED 3M MODEL 752 PHASE SELECTORS.

POLES AND HARDWARE (CONT'D)

- 307. ON LOCATIONS WHERE SINGLE DIRECTIONAL DETECTORS ARE REQUIRED AND SHOWN ON THE PLANS, MODEL 722 (TWO-WAY) DETECTORS SHALL BE USED AND SHALL BE MOUNTED OVER THE CENTER OF THE LANES FOR EACH DIRECTION. THE CONTROLLER SHALL BE EQUIPPED FOR OPTICOM PRE-EMPTION USING TWO (2) CONTRACTOR SUPPLIED 3M MODEL 752 PHASE SELECTORS.

STREET LIGHTING

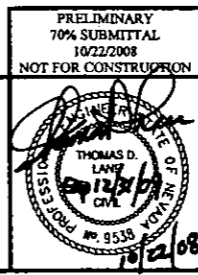
- 400. INTERSECTION LUMINAIRES SHALL BE 400 WATT HPS WITH IES MC3 DISTRIBUTION WITH 120 VOLT MAGNETIC REGULATOR BALLAST (G.E. #MSCL40S1M22FMC3, SYLVANIA LAMP LU400/SBY (NAED CODE #67584) AND AREA LIGHTING RESEARCH ELECTRONIC PHOTOCCELL (#2190VP3) ON EACH TRAFFIC SIGNAL POLE AS INDICATED ON THE PLANS. EACH POLE SUPPORTING ONE OR MORE LUMINAIRES SHALL BE ELECTRICALLY FED BY AN INDIVIDUAL 120V - 1P-30A BREAKER IN THE ELECTRICAL SERVICE PEDESTAL AND A HOMERUN OF TWO (2) #10 AWG THW-2 OR XHHW-2 COPPER WIRES (BLACK AND WHITE) FROM EACH POLE TO THE ELECTRICAL SERVICE. THE GREEN GROUND WIRE (THW-2 OR XHHW-2) SHALL BE CONNECTED TO THE GROUND BUSS WITHIN THE SERVICE PEDESTAL.
- 401. 240 VOLT STREET LIGHT CONDUITS SHALL BE SEPARATE FROM TRAFFIC SIGNAL AND INTERSECTION LIGHTING CONDUITS. EACH SHALL HAVE SEPARATE PULL BOXES.
- 402. REMOVE AND SALVAGE EXISTING STREET LIGHT POLE ASSEMBLY. CHIP FOUNDATION EIGHTEEN (18) INCHES BELOW FINISHED GRADE OR EXISTING GRADE. INTERCEPT EXISTING CONDUIT AND WIRING INTO A No. 3/4" PULL BOX MARKED "STREET LIGHT" WITH A RESIN POLYMER REINFORCED NON-CONDUCTIVE COVER WHILE MAINTAINING THE EXISTING STREET LIGHT CIRCUIT.
- 403. THE CONTRACTOR SHALL REPLACE ANY EXISTING 400W, 240V STREETLIGHT FIXTURE WITH A NEW 400W, 120V CUTOFF STREETLIGHT FIXTURE. ALL STREETLIGHTS SHALL REMAIN FULLY OPERATIONAL ON THE EXISTING CIRCUIT. THE CONTRACTOR SHALL ENSURE THE CONTINUITY OF THE EXISTING 240 VOLT STREETLIGHT CIRCUIT WHILE REPLACING THE LUMINAIRES AT THE SIGNALIZED INTERSECTION.
- 404. STRAIGHT ARMS, IF REQUIRED, SHALL BE INSTALLED AT NO ADDITIONAL COST AND MUST BE APPROVED BY THE CLARK COUNTY TRAFFIC MANAGER.

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CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
TRAFFIC SIGNAL GENERAL NOTES
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

PROJECT No: 1014 DRAWN BY: WSH
 DESIGNED BY: JCM CHECKED BY: NLG
 APPROVED BY: TDL

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FIELD BOOK NONE	
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TRAFFIC SIGNAL NOTES (CONT'D)

VEHICLE/PEDESTRIAN HEADS

- 500. ALL TRAFFIC SIGNAL VEHICLE INDICATIONS SHALL USE A 12 INCH SIGNAL LENS.
- 501. ALL TRAFFIC SIGNAL PEDESTRIAN INDICATIONS SHALL USE A 9 INCH HIGH INDICATION.
- 502. ALL TRAFFIC SIGNAL VEHICLE HEADS SHALL USE TUNNEL VISORS UNLESS NOTED ON THE PLANS.
- 503. VISUALLY ORIENTED TRAFFIC SIGNAL VEHICLE HEADS SHALL USE A PELCO LOUVER IN THE SIGNAL HEADS AS NOTED ON THE PLANS.
- 504. ALL TRAFFIC SIGNAL VEHICLE HEADS SHALL HAVE LOUVERED BACKPLATES.
- 505. PEDESTRIAN PUSH BUTTONS SHALL MEET THE AMERICANS WITH DISABILITIES ACT (ADA) ACCESSIBILITY GUIDELINES AND BE INSTALLED ON POLE AT A HEIGHT BETWEEN THIRTY-SIX (36) INCHES AND FORTY-TWO (42) INCHES FROM FINISHED GRADE. PEDESTRIAN PUSH BUTTON SIGN SHALL BE R10-3a.
- 506. ALL PEDESTRIAN SIGNAL ASSEMBLIES SHALL BE SUPPLIED WITH L.E.D. MESSAGE MODULES. THE "HAND" SHALL BE PORTLAND ORANGE L.E.D., THE "WALKING PERSON" SHALL BE LUNAR WHITE L.E.D. AS SPECIFIED IN THE SPECIAL PROVISIONS. THE SYMBOLS SHALL BE ENTIRELY LIGHTED AND NOT HOLLOW.
- 507. ALL PEDESTRIAN SIGNALS SHALL BE EQUIPPED TO COUNT DOWN THE PEDESTRIAN CLEARANCE INTERVAL. EXISTING NON-COUNT DOWN PEDESTRIAN SIGNAL HEADS SHALL BE CHANGED TO COUNT DOWN TYPE.
- 508. ALL TRAFFIC SIGNAL VEHICLE INDICATIONS SHALL BE LIGHT EMMITING DIODE (L.E.D.) AS SPECIFIED IN THE SPECIAL PROVISIONS AND THE MOST RECENT ITE SPECIFICATIONS.
- 509. ALL L.E.D. MODULES SHALL COMPLY WITH THE MOST RECENT SPECIFICATIONS AND TECHNOLOGY AS ADOPTED AND APPROVED BY THE INSTITUTE OF TRANSPORTATION ENGINEERS (ITE).
- 510. CONTRACTOR SHALL SUPPLY TRAFFICJACKETS.COM, OR AN APPROVED EQUAL BY CLARK COUNTY TRAFFIC MANAGER, TRAFFIC SIGNAL AND PEDESTRIAN HEAD COVER ON EACH INSTALLED NEW SIGNAL AND PEDESTRIAN HEAD. THE COVERS SHALL BE INSTALLED WHEN EACH SIGNAL AND/OR PEDESTRIAN HEAD IS INSTALLED AND SHALL BE MAINTAINED UNTIL THE SIGNAL AND/OR PEDESTRIAN HEAD IS ACTIVATED. THE COVERS SHALL BE BLACK WITH A VERTICAL MESSAGE "NOT IN SERVICE" IN WHITE ON EACH COVER.

CONTROLLER AND SERVICE PEDESTAL

- 600. THE NEVADA POWER TRANSFORMER SHALL BE A MAXIMUM OF THREE HUNDRED AND FIFTY (350) FEET FROM THE SERVICE PEDESTAL.
- 601. THE SERVICE PEDESTAL SHALL BE A MAXIMUM OF FIVE (5) FEET FROM THE CONTROLLER CABINET.
- 602. ALL PHOTOCELLS TO BE INSTALLED IN SERVICE PEDESTALS SHALL BE AREA RESEARCH LIGHTING MODEL SST-PV-IES.
- 603. FOR COUNTY FUNDED PROJECTS, THE CONTRACTOR SHALL SUPPLY A 2070N WITH A 1B MODULE, EAGLE M53 OR APPROVED EQUAL TRAFFIC SIGNAL CONTROLLER AND TWO (2) 3M MODEL 752 EMERGENCY VEHICLE PHASE SELECTORS TO CLARK COUNTY OPERATIONS, FOURTEEN (14) DAYS PRIOR TO SIGNAL TURN-ON FOR TESTING. THE CONTRACTOR SHALL INSTALL THE COUNTY-SUPPLIED CONTROLLER CABINET ON A CONTRACTOR FURNISHED FOUNDATION. THE CONTRACTOR SHALL PICK-UP THE CONTROLLER CABINET AT CLARK COUNTY TRAFFIC OPERATIONS, 4315 S. STEPHANIE ST. BY APPOINTMENT ONLY. THE CONTRACTOR SHALL NOTIFY CLARK COUNTY (455-7544) SEVEN (7) DAYS PRIOR TO PICK-UP. THE CONTRACTOR SHALL FURNISH AND INSTALL A REMOTE DATA RADIO UNIT (MDS9710A) INCLUDING ANTENNA PER MANUFACTURER'S RECOMMENDATIONS.
- 604. FOR NON-COUNTY FUNDED PROJECTS, THE CONTRACTOR SHALL SUPPLY A 2070N WITH 1B MODULE, EAGLE M53 OR APPROVED EQUAL TRAFFIC SIGNAL CONTROLLER AND TWO (2) 3M MODEL 752 EMERGENCY VEHICLE PHASE SELECTORS TO CLARK COUNTY OPERATIONS, FOURTEEN (14) DAYS PRIOR TO SIGNAL TURN-ON FOR TESTING. THE CONTRACTOR SHALL INSTALL A CONTRACTOR-SUPPLIED COUNTY STANDARD CONTROLLER CABINET ON A CONTRACTOR FURNISHED FOUNDATION. THE CONTRACTOR SHALL FURNISH AND INSTALL A REMOTE DATA RADIO UNIT (MDS9710A) INCLUDING ANTENNA PER MANUFACTURER'S RECOMMENDATIONS.

CONTROLLER AND SERVICE PEDESTAL (CONT'D)

- 605. ALL TRAFFIC SIGNALS SHALL BE POWERED FROM A 200 AMP SERVICE PEDESTAL.
- 606. THE 200AMP SERVICE PEDESTAL SHALL INCLUDE:
 - ONE (1) 200 AMP DOUBLE POLE CIRCUIT BREAKER (MAIN)
 - ONE (1) 60 AMP SINGLE POLE CIRCUIT BREAKER (TRAFFIC SIGNAL)
 - FOUR (4) 30 AMP SINGLE POLE CIRCUIT BREAKERS (INTERSECTION LIGHTING)
 - ONE (1) 15 AMP SINGLE POLE CIRCUIT BREAKER (PHOTO CELL)
 - TWO (2) 60 AMP 120V DOUBLE POLE CIRCUIT BREAKERS (STREET LIGHTING)
 - TWO (2) DOUBLE POLE LIGHTING CONTACTOR W/120VOLT COIL (GE# CR360L40202AAA OR APPROVED EQUAL)
 - ONE (1) 120 VOLT ELECTRONIC PHOTO ELECTRIC CONTROLS (AREA LIGHTING RESEARCH, INC. PART #2190VP3 OR APPROVED EQUAL)
 - ONE (1) #4 AWG 7 STRAND BARE COPPER GROUNDING CONDUCTOR TO EARTH WITH 20 FEET OF UFFER GROUND UNDER THE PEDESTAL FOUNDATION.

ILLUMINATED STREET NAME SIGNS

- 700. CONTRACTOR SHALL PROVIDE AND INSTALL THE NUMBER OF ILLUMINATED STREET NAME SIGNS AS SHOWN IN THE POLE SCHEDULE.
- 701. ALL ILLUMINATED STREET NAME SIGNS SHALL BE EIGHT (8) FEET IN LENGTH.
- 702. ALL ILLUMINATED STREET NAME SIGNS SHALL USE WHITE WIDE ANGLE TRANSLUCENT RETRO-REFLECTIVE PRISMATIC SHEETING, EITHER REVERSE-SCREENED WITH MANUFACTURER'S RECOMMENDED GREEN INK AND CLEAR COATING OR OVER-LAYED WITH GREEN ELECTRONIC CUTABLE TRANSPARENT OVERLAY FILM, APPLIED TO 3/16 INCH LEXAN, WITHIN A FRAME, SIGN FACE.
- 703. STREET NAME SHALL BE IN UPPER AND LOWER CASE LETTERS USING 8-INCH SERIES D WITH THE STREET CARDINAL DIRECTION, SUFFIX AND BLOCK NUMBER IN 5-INCH SERIES C. KERNING VALUE IS 110%. WIND LOADING SHALL BE A MINIMUM OF 100 MPH.
- 704. REFER TO CCUSD 404.416 FOR THE ILLUMINATED STREET NAME SIGN DETAILS.
- 705. APPROVAL OF SHOP DRAWINGS OF SIGN FACE LAYOUT BY THE PROJECT ENGINEER IS REQUIRED PRIOR TO FABRICATION OF SIGN.
- 706. SHEETING SHALL BE APPLIED IN A VERTICAL ORIENTATION IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.
- 707. THE HOT LEAD SHALL BE CONNECTED TO THE LOAD SIDE OF THE LUMINAIRE P.E. CONTROL OF THE RELATED STREET LIGHT. THE NEUTRAL WIRE SHALL BE CONNECTED TO THE STREET LIGHT NEUTRAL AT THE HANDHOLE. USE No. 12 THW-2 OR XHHW-2 CONDUCTOR. THE STREET NAME SIGN SHALL BE WIRED TO THE LUMINAIRE PHOTO CELL ON THE RELATED STREET LIGHT.
- 708. ALL ILLUMINATED STREET NAME SIGNS SHALL BE DOUBLE FACED UNLESS NOTED IN THE POLE SCHEDULE.
- 709. TWO (2) FLUORESCENT SHATTERPROOF LAMPS AND TWO (2) BALLASTS ARE REQUIRED. BALLAST SHALL BE ADVANCE RSM 175.

PLOT DATE: Friday, October 10, 2008 10:47:37 AM
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 REFERENCE FILES: 04120_TDR.dwg

REV. NO.	DATE	DESCRIPTION	APPROVED

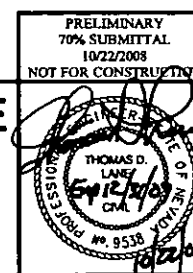


CACTUS AVENUE / I-15 INTERCHANGE

DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD

TRAFFIC SIGNAL GENERAL NOTES

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



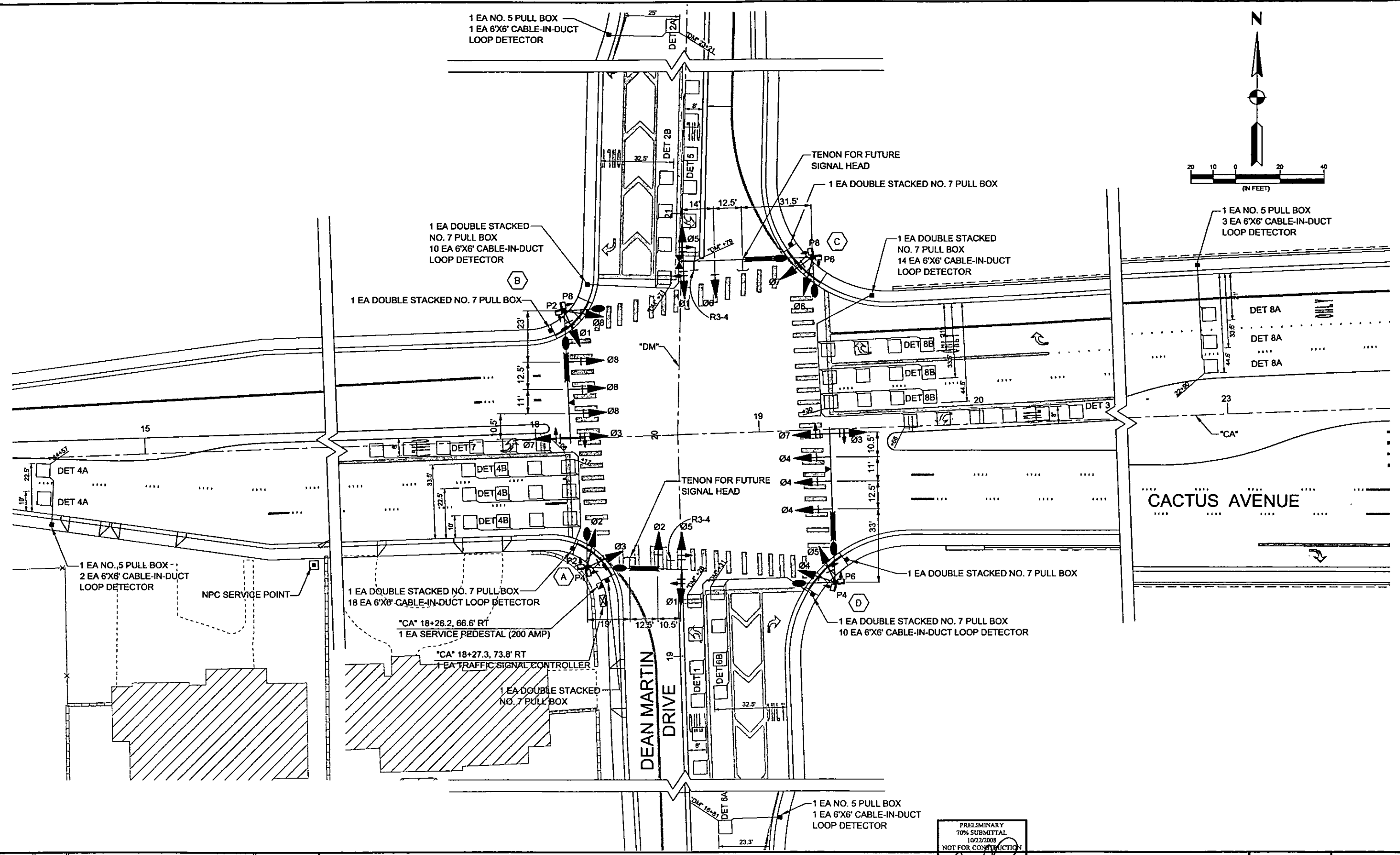
PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

PROJECT No: 1014 DRAWN BY: WSH
 DESIGNED BY: JCM CHECKED BY: NLG
 APPROVED BY: TDL

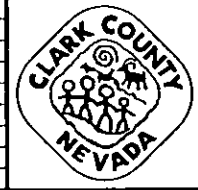
THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89118
 PHONE (702) 736-6832 • FAX (702) 736-0704

SCALE	SHEET No
HORIZ: AS SHOWN	T-3
VERT: NONE	
FIELD BOOK: NONE	
WORK ORDER: 2008	

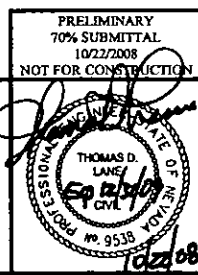
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 REFERENCE FILES:



REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
TRAFFIC SIGNAL PLAN
 CACTUS AVENUE/DEAN MARTIN DRIVE
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PRELIMINARY
 70% SUBMITTAL
 10/22/08
 NOT FOR CONSTRUCTION

PROJECT No: 1014 DRAWN BY: JPS
 DESIGNED BY: JCM CHECKED BY: NLG
 APPROVED BY: TDL

THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 LAS VEGAS, NEVADA 89119
 PHONE (702) 736-0832 * FAX (702) 736-0704

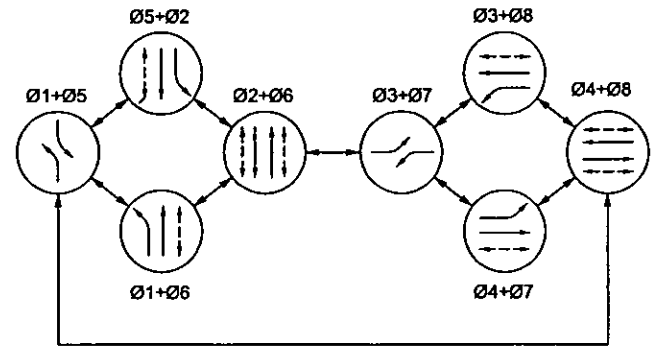
SCALE	SHEET No
HORIZ: AS SHOWN	T-4
VERT: NONE	
FIELD BOOK: NONE	
WORK ORDER: 2008-	

TRAFFIC SIGNAL POLE SCHEDULE

No.	STATION	POLE TYPE	SIGNAL ARM		LUMINAIRE ARM		VEHICLE SIGNALS		PEDESTRIAN SIGNALS		PEDESTRIAN BUTTON		VIDEO CAMERA	EMERGENCY VEHICLE DETECTOR	TRAFFIC SIGNS	RED LIGHT INDICATIONS			COMMUNICATION EQUIPMENT
			QUAD	LENGTH	QUAD	LENGTH	MOUNTING	QUAD	MOUNTING	QUAD	ARROW	QUAD				QUAD	TYPE	PHASE	
A	"CA" 18+20.9, 58.4' RT	XX-A-40	2	45'															
B	"CA" 18+14.9, 57.9' LT	XX-A-30	3	60'															
C	"CA" 19+31.8, 77.9' LT	XX-A-30	4	60'															
D	"CA" 19+27.0, 69.2' RT	XX-B-30	1	70'															
E																			

WIRE AND CABLE	FROM	TO	CONDUIT																		
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

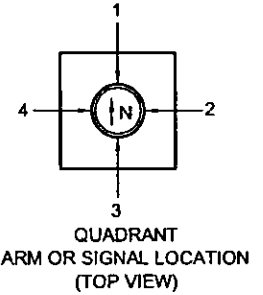
CONDUIT QUANTITY AND SIZE
EX = EXISTING



PHASE DIAGRAM
FLASHING OPERATION - ALL RED
OPTICOM PHASES 2, 4, 6, AND 8

STREET NAME SIGNS	
POLE	SIGN LEGEND
A	[Blank box]
B	[Blank box]
C	[Blank box]
D	[Blank box]

CONTRACTOR SHALL VERIFY STREET BLOCK NUMBERS WITH CLARK COUNTY



QUADRANT
ARM OR SIGNAL LOCATION
(TOP VIEW)

PLOT DATE: Wednesday, Aug 27, 2008 12:12:28 AM
FILE NAME: F:\CP\PC\031014-CACTUS\PLANS\PHASE 2\SHEETS\TRAFFIC SIGNALS\1014-SIGNAL-G2.DWG
REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
TRAFFIC SIGNAL SCHEDULES
CACTUS AVENUE/DEAN MARTIN DRIVE
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PRELIMINARY
70% SUBMITTAL
10/22/2008
NOT FOR CONSTRUCTION

PROJECT No: 1014 DRAWN BY: WSH
DESIGNED BY: JCM CHECKED BY: NLG
APPROVED BY: TDL

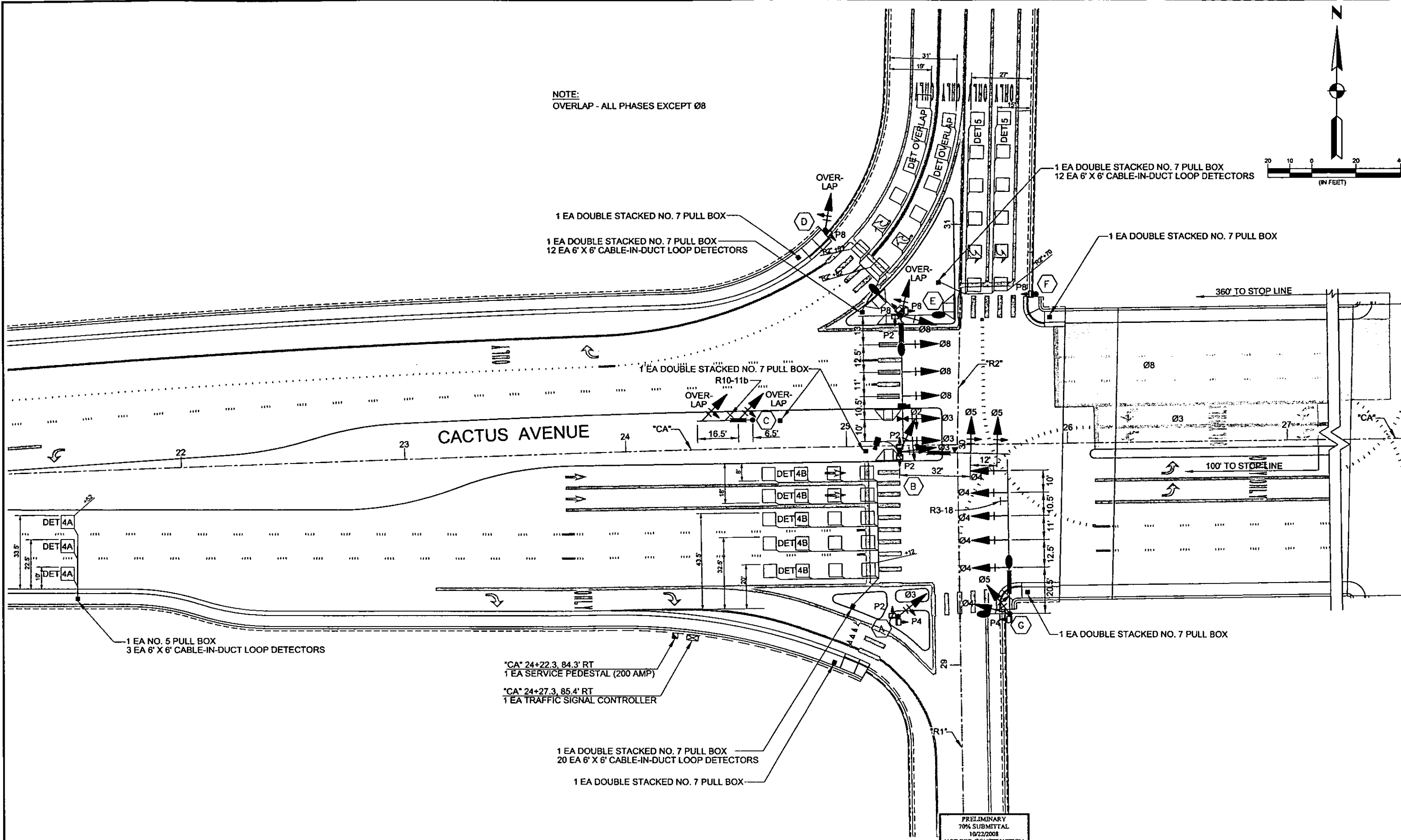
SCALE	
HORIZ.	NONE
VERT.	NONE
FIELD BOOK	NONE
WORK ORDER	2008

500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119
PHONE (702) 736-0632 • FAX (702) 736-0704

SHEET No
T-5



NOTE:
OVERLAP - ALL PHASES EXCEPT Ø8



1 EA NO. 5 PULL BOX
3 EA 6' X 6' CABLE-IN-DUCT LOOP DETECTORS

1 EA DOUBLE STACKED NO. 7 PULL BOX
12 EA 6' X 6' CABLE-IN-DUCT LOOP DETECTORS

1 EA DOUBLE STACKED NO. 7 PULL BOX
12 EA 6' X 6' CABLE-IN-DUCT LOOP DETECTORS

1 EA DOUBLE STACKED NO. 7 PULL BOX

1 EA DOUBLE STACKED NO. 7 PULL BOX

1 EA DOUBLE STACKED NO. 7 PULL BOX

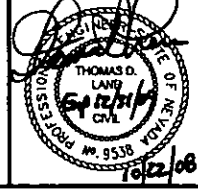
"CA" 24+22.3, 84.3' RT
1 EA SERVICE PEDESTAL (200 AMP)

"CA" 24+27.3, 85.4' RT
1 EA TRAFFIC SIGNAL CONTROLLER

1 EA DOUBLE STACKED NO. 7 PULL BOX
20 EA 6' X 6' CABLE-IN-DUCT LOOP DETECTORS

1 EA DOUBLE STACKED NO. 7 PULL BOX

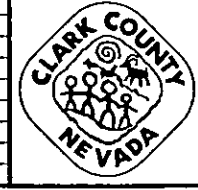
PRELIMINARY
70% SUBMITTAL
10/22/2008
NOT FOR CONSTRUCTION



PROJECT No: 1014 DRAWN BY: WSH
DESIGNED BY: JCM CHECKED BY: NLG
APPROVED BY: TDL
THE Louis Berger Group, INC.
500 ANIGO COURT, SUITE 100 LAS VEGAS, NEVADA 89119
PHONE (702) 736-8832 FAX (702) 736-0704

SCALE	HORIZ: AS SHOWN	VERT: NONE	FIELD BOOK: NONE	WORK ORDER: 2008-
SHEET No	T-6			

CACTUS AVENUE / I-15 INTERCHANGE
DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
TRAFFIC SIGNAL PLAN
CACTUS AVENUE/I-15 SOUTH
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



REV. NO.	DATE	DESCRIPTION	APPROVED

PLOT DATE: 10/22/08 12:12 AM
FILE NAME: P:\CCTUS\1014-CACTUS\PLANS\PHASE 7\TRAFFIC SIGNAL\1014-SIGNAL-40.DWG
REFERENCE FILES:

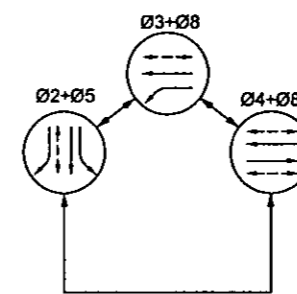
TRAFFIC SIGNAL POLE SCHEDULE

No.	STATION	POLE TYPE	SIGNAL ARM		LUMINAIRE ARM		VEHICLE SIGNALS		PEDESTRIAN SIGNALS		PEDESTRIAN BUTTON		VIDEO CAMERA	EMERGENCY VEHICLE DETECTOR	TRAFFIC SIGNS	RED LIGHT INDICATIONS			COMMUNICATION EQUIPMENT
			QUAD	LENGTH	QUAD	LENGTH	MOUNTING	QUAD	MOUNTING	QUAD	ARROW	QUAD				QUAD	TYPE	PHASE	
A	*CA* 25+22.0, 77.5' RT	1-A																	
B	*CA* 25+24.0, 2.8' RT	XX-A-40	2	50'															
C	*CA* 24+57.5, 12.7' LT	XX-A-30	4	25'															
D	*CA* 24+93.3, 98.4' LT	1-A																	
E	*CA* 25+25.7, 59.2' LT	XX-A-30	3	60'															
F	*CA* 25+86.8, 68.0' LT	1-B																	
G	*CA* 25+72.6, 77.0' RT	XX-B-30	1	70'															

CONDUIT AND CABLE SCHEDULE

WIRE AND CABLE	FROM	TO	CONDUIT																		
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

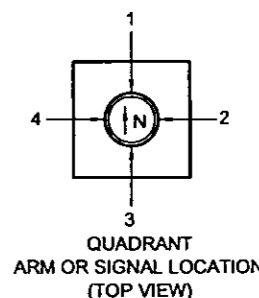
CONDUIT QUANTITY AND SIZE
EX = EXISTING



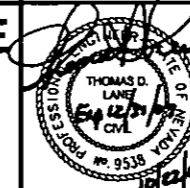
PHASE DIAGRAM
FLASHING OPERATION - ALL OPTICOM PHASES 2, 4, AND 8
OVERLAP-ALL PHASES EXCEPT 08

STREET NAME SIGNS	
POLE	SIGN LEGEND
A	
B	
C	
D	

CONTRACTOR SHALL VERIFY STREET BLOCK NUMBERS WITH CLARK COUNTY



PRELIMINARY
70% SUBMITTAL
10/22/2008
NOT FOR CONSTRUCTION



PROJECT No: 1014 DRAWN BY: WSH
DESIGNED BY: JCM CHECKED BY: NLG
APPROVED BY: TDL

THE Louis Berger Group, INC.
500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119
PHONE (702) 736-6632 • FAX (702) 736-0704

SCALE	
HORIZ:	NONE
VERT:	NONE
FIELD BOOK:	NONE
WORK ORDER:	2008

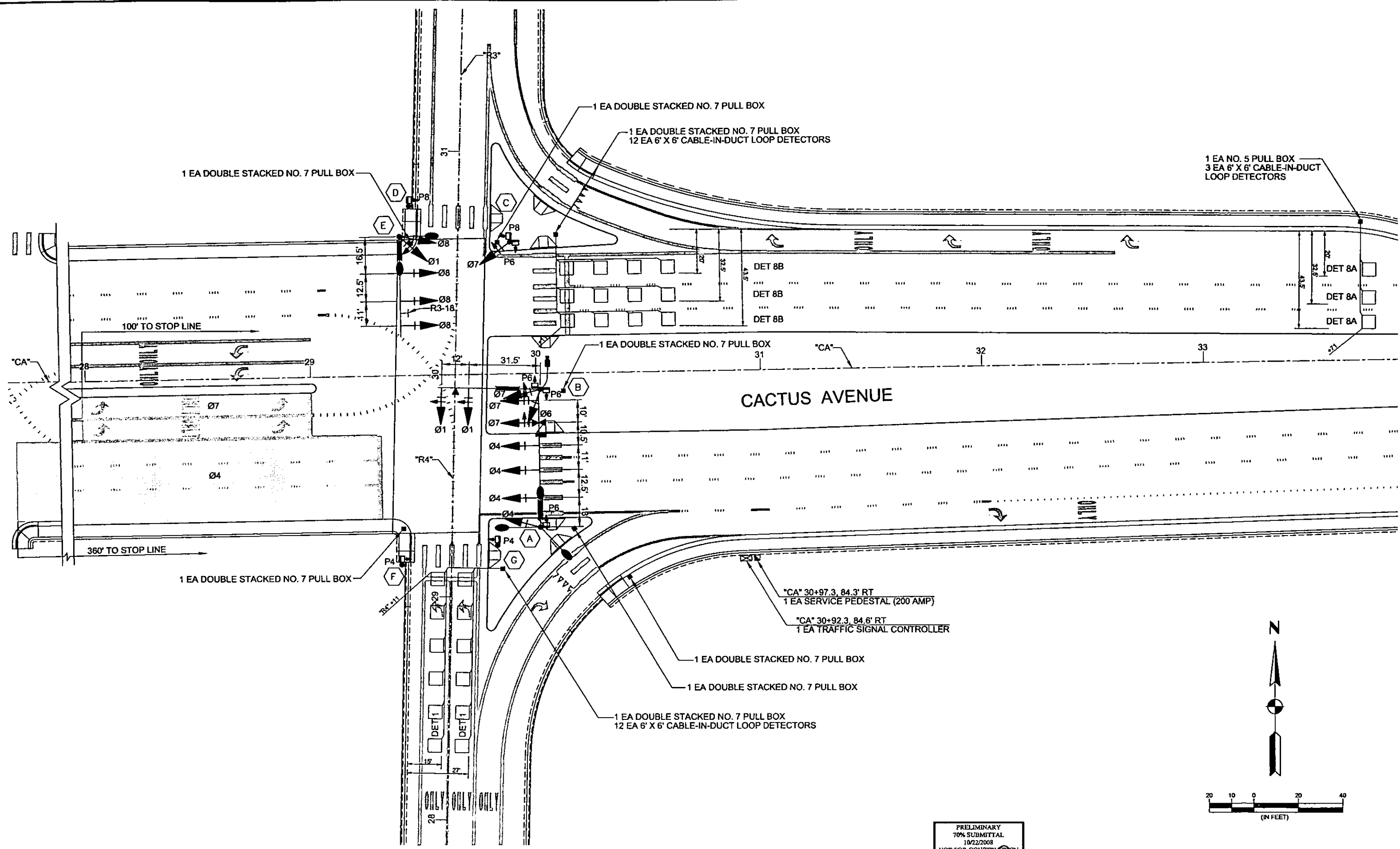
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REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED




CACTUS AVENUE / I-15 INTERCHANGE
DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
TRAFFIC SIGNAL SCHEDULES
CACTUS AVENUE/I-15 SOUTH
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PLOT DATE: Wednesday, 2/24/2008 8:28:39 AM
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 REFERENCE FILES:



REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE

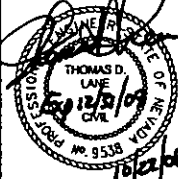
DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD

TRAFFIC SIGNAL PLAN

CACTUS AVENUE/I-15 NORTH

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

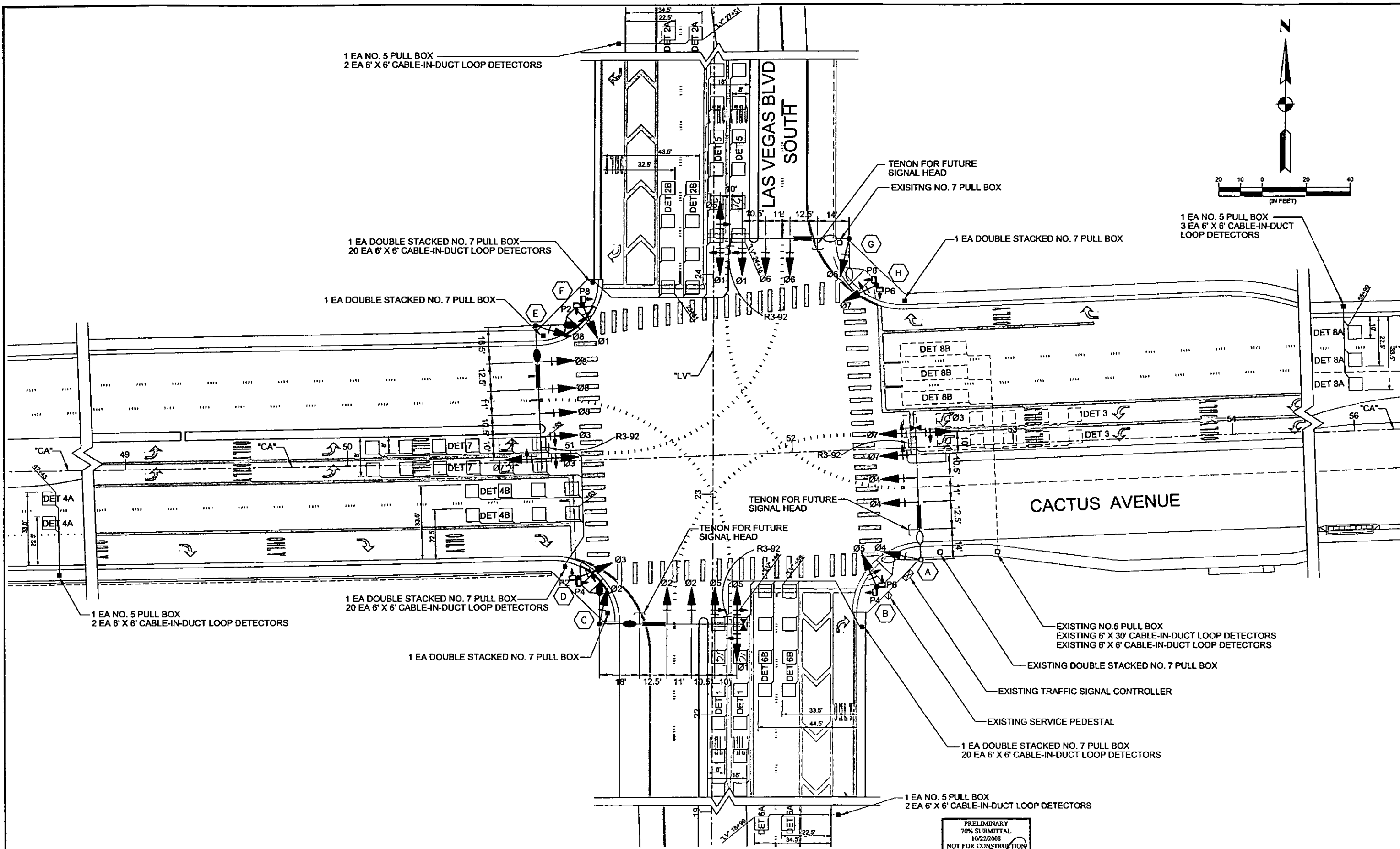
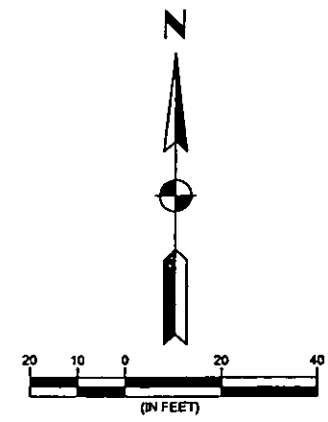


PROJECT No: 1014 DRAWN BY: WSH
 DESIGNED BY: JCM CHECKED BY: NLG
 APPROVED BY: TDL

THE Louis Berger Group, INC.
500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119
 PHONE (702) 736-6632 • FAX (702) 736-0704

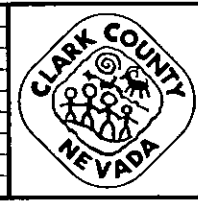
SCALE	SHEET No
HORIZ: AS SHOWN	T-8
VERT: NONE	
FIELD BOOK: NONE	
WORK ORDER: 2008-	

CACTUS AVENUE / I-15 INTERCHANGE



PLOT DATE: Wednesday, Nov 26, 2008 12:12:42 AM
FILE NAME: P:\COPPER\9194-CACTUS\PLANS\PHASE XSHEETS\TRAFFIC SIGNALS\15114-SIGNAL-1.DWG
REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
TRAFFIC SIGNAL PLAN
 CACTUS AVENUE/LAS VEGAS BOULEVARD
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PRELIMINARY
70% SUBMITTAL
10/22/2008
NOT FOR CONSTRUCTION

PROJECT No: 1014 DRAWN BY: WSH
 DESIGNED BY: JCM CHECKED BY: NLG
 APPROVED BY: TDL

THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 LAS VEGAS, NEVADA 89119
 PHONE (702) 736-0032 FAX (702) 736-0704

SCALE		SHEET No
HORIZ:	AS SHOWN	T-10
VERT:	NONE	
FIELD BOOK:	NONE	
WORK ORDER:	2008-	

CACTUS AVENUE / I-15 INTERCHANGE



ITS LEGEND:

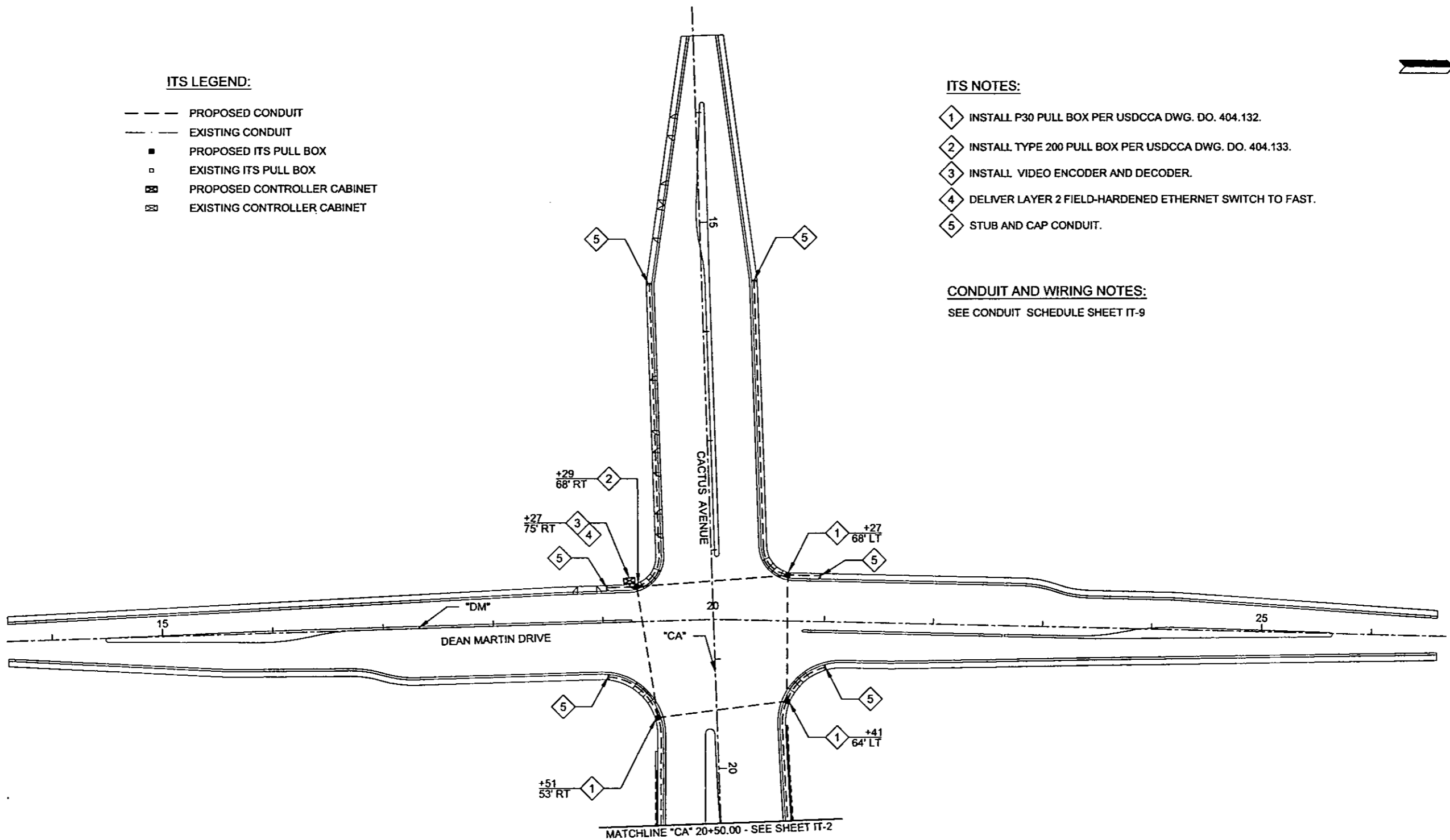
- PROPOSED CONDUIT
- - - EXISTING CONDUIT
- PROPOSED ITS PULL BOX
- EXISTING ITS PULL BOX
- ▣ PROPOSED CONTROLLER CABINET
- ▤ EXISTING CONTROLLER CABINET

ITS NOTES:

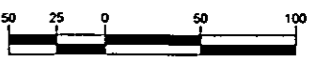
- 1 INSTALL P30 PULL BOX PER USDCCA DWG. DO. 404.132.
- 2 INSTALL TYPE 200 PULL BOX PER USDCCA DWG. DO. 404.133.
- 3 INSTALL VIDEO ENCODER AND DECODER.
- 4 DELIVER LAYER 2 FIELD-HARDENED ETHERNET SWITCH TO FAST.
- 5 STUB AND CAP CONDUIT.

CONDUIT AND WIRING NOTES:

SEE CONDUIT SCHEDULE SHEET IT-9



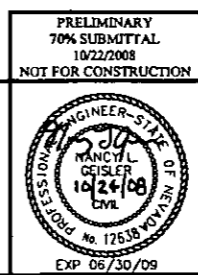
PLOT DATE: Friday, October 2, 2008 8:24:46 AM
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REFERENCE FILES:



REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
ITS PLAN
 "CA" 12+00.00 TO "CA" 20+50.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



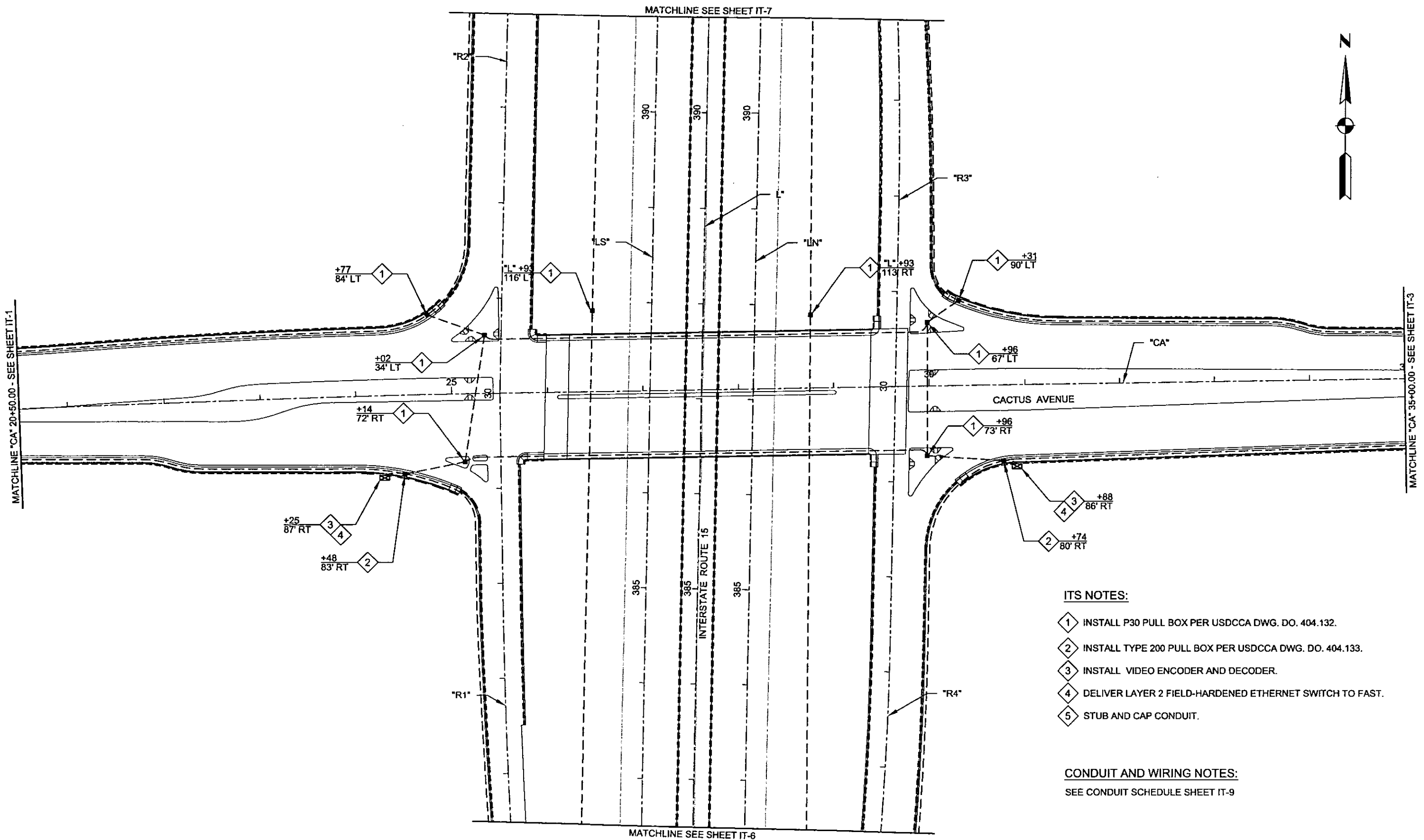
PRELIMINARY
70% SUBMITTAL
10/22/2008
NOT FOR CONSTRUCTION

PROJECT No: 1014 DRAWN BY: ALB
 DESIGNED BY: ALB CHECKED BY: NLG
 APPROVED BY: TDL

THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119
 PHONE (702) 736-6632 • FAX (702) 736-0704

SCALE	SHEET No
HORIZ: AS SHOWN	IT-1
VERT: NONE	
FIELD BOOK: NONE	
WORK ORDER: 2008-	

PLOT DATE: Fri, 02/22/2009 8:46:50 AM
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 REFERENCE FILES:

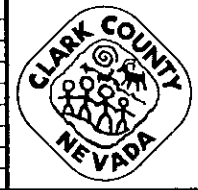


- ITS NOTES:**
- 1 INSTALL P30 PULL BOX PER USDCCA DWG. DO. 404.132.
 - 2 INSTALL TYPE 200 PULL BOX PER USDCCA DWG. DO. 404.133.
 - 3 INSTALL VIDEO ENCODER AND DECODER.
 - 4 DELIVER LAYER 2 FIELD-HARDENED ETHERNET SWITCH TO FAST.
 - 5 STUB AND CAP CONDUIT.

CONDUIT AND WIRING NOTES:
 SEE CONDUIT SCHEDULE SHEET IT-9



REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
ITS PLAN
 "CA" 20+50.00 to "CA" 35+00.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

PROJECT No: 1014 DRAWN BY: ALB
 DESIGNED BY: ALB CHECKED BY: NLG
 APPROVED BY: TOL

 THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119
 PHONE (702) 736-6632 • FAX (702) 736-0704

SCALE	
HORIZ:	AS SHOWN
VERT:	NONE
FIELD BOOK:	NONE
WORK ORDER:	2008-

SHEET No
IT-2

CACTUS AVENUE ITS INTERCHANGE

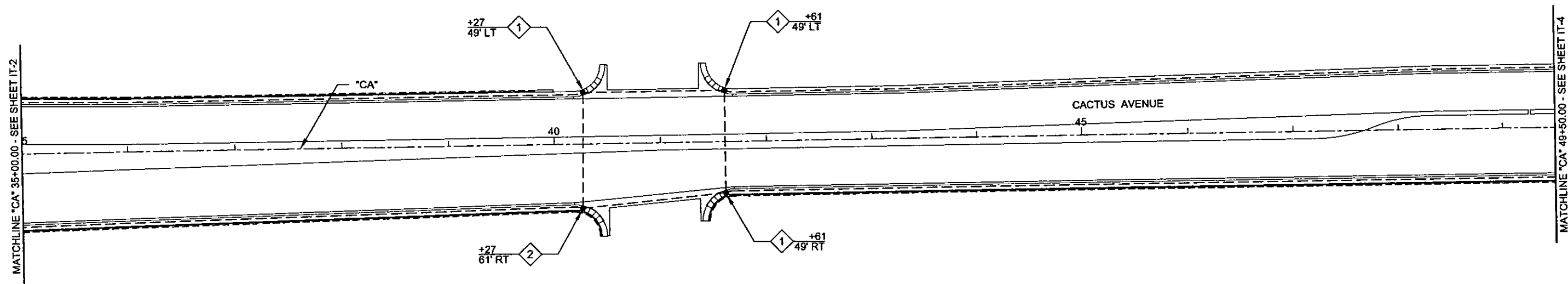


ITS NOTES:

- 1 INSTALL P30 PULL BOX PER USDCCA DWG. DO. 404.132.
- 2 INSTALL TYPE 200 PULL BOX PER USDCCA DWG. DO. 404.133.
- 3 INSTALL VIDEO ENCODER AND DECODER.
- 4 DELIVER LAYER 2 FIELD-HARDENED ETHERNET SWITCH TO FAST.
- 5 STUB AND CAP CONDUIT.

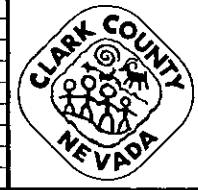
CONDUIT AND WIRING NOTES:

SEE CONDUIT SCHEDULE SHEET IT-9



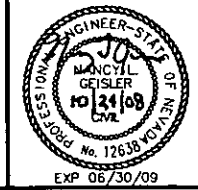
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 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
ITS PLAN
 "CA" 35+00.00 to "CA" 49+50.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION



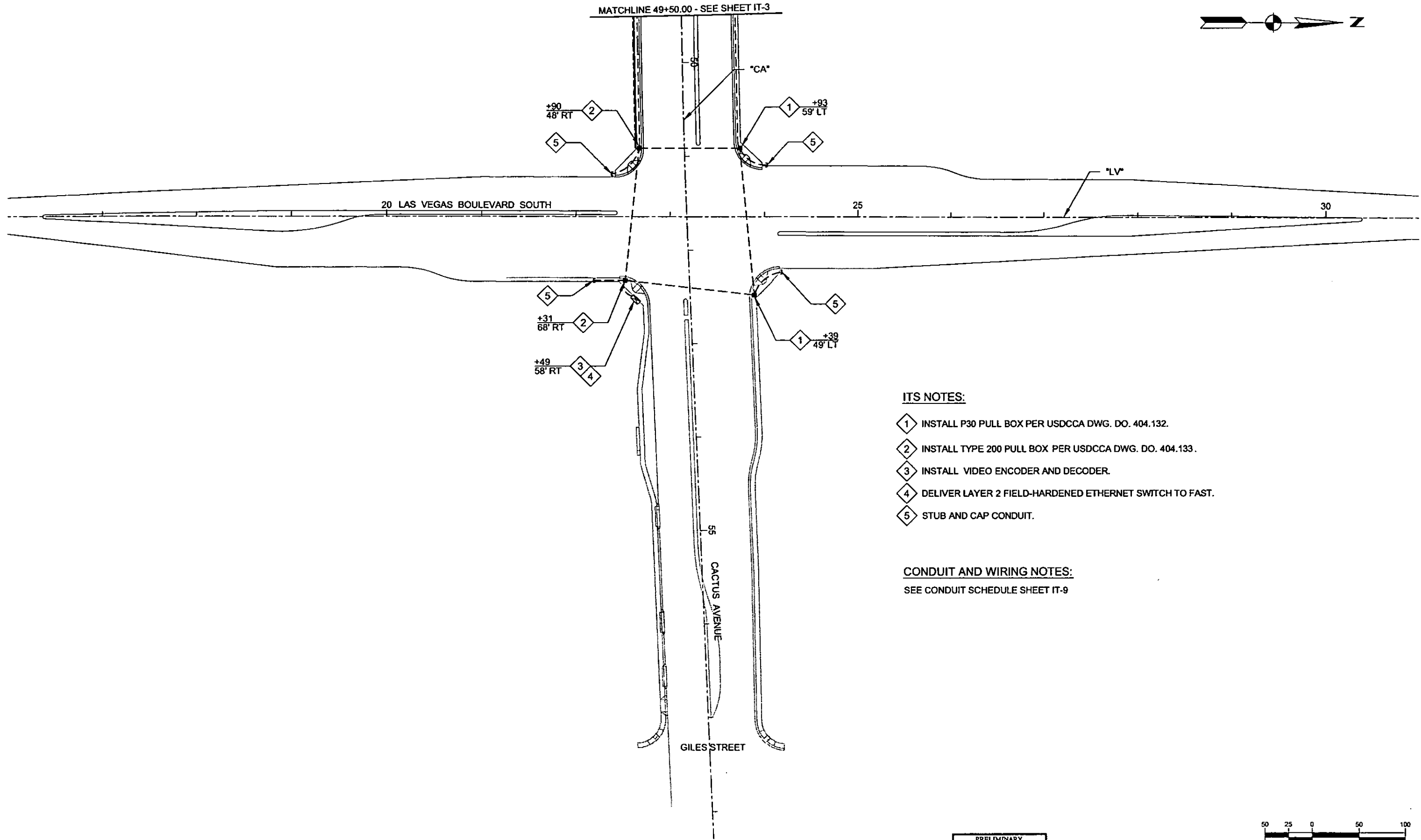
PROJECT No: 1014 DRAWN BY: ALB
 DESIGNED BY: ALB CHECKED BY: NLG
 APPROVED BY: TDL
THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89110
 PHONE (702) 736-6832 • FAX (702) 736-0704



SCALE	
HORIZ.	AS SHOWN
VERT.	NONE
FIELD BOOK	NONE
WORK ORDER	2008-

SHEET No
IT-3

MATCHLINE 49+50.00 - SEE SHEET IT-3



ITS NOTES:

- 1 INSTALL P30 PULL BOX PER USGCCA DWG. DO. 404.132.
- 2 INSTALL TYPE 200 PULL BOX PER USGCCA DWG. DO. 404.133.
- 3 INSTALL VIDEO ENCODER AND DECODER.
- 4 DELIVER LAYER 2 FIELD-HARDENED ETHERNET SWITCH TO FAST.
- 5 STUB AND CAP CONDUIT.

CONDUIT AND WIRING NOTES:

SEE CONDUIT SCHEDULE SHEET IT-9



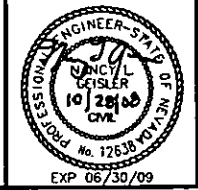
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 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
ITS PLAN
 "CA" 49+50.00 to "CA" 57+00.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION



PROJECT No: 1014 DRAWN BY: ALB
 DESIGNED BY: ALB CHECKED BY: NLG
 APPROVED BY: TDL
THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 *LAS VEGAS, NEVADA *89119
 PHONE (702) 736-0632 **FAX (702) 736-0704

SCALE	
HORIZ:	AS SHOWN
VERT:	NONE
FIELD BOOK	NONE
WORK ORDER	2008-

SHEET No
IT-4

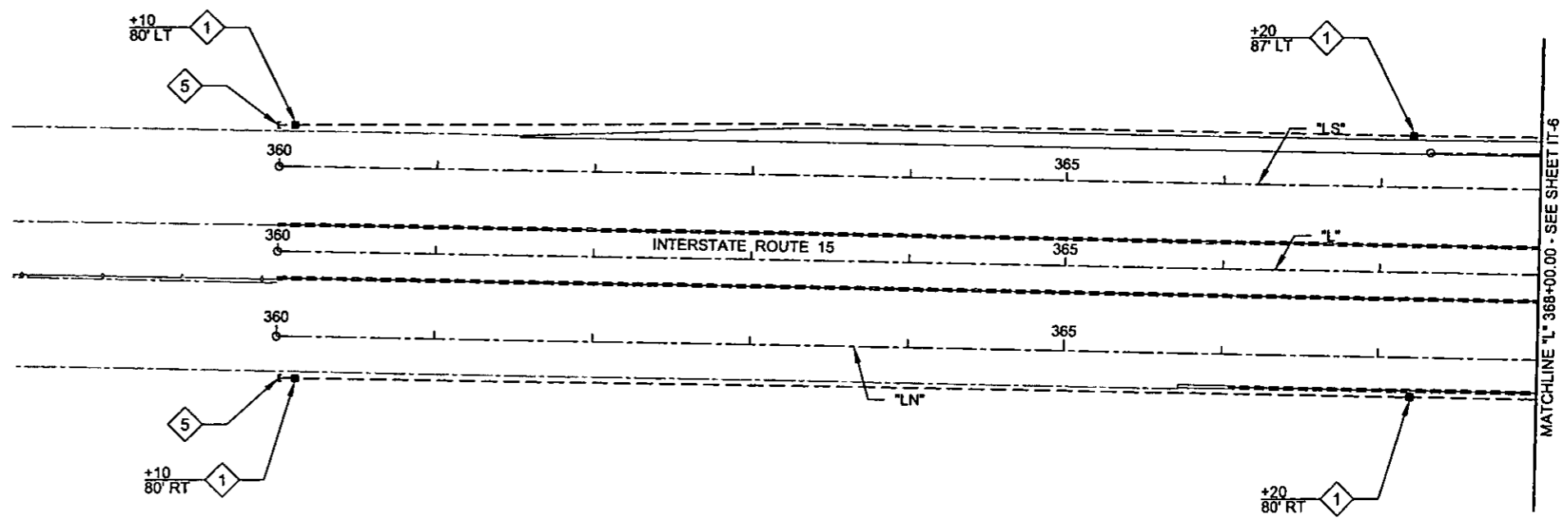


ITS NOTES:

- 1 INSTALL P30 PULL BOX PER USDCCA DWG. DO. 404.132.
- 2 INSTALL TYPE 200 PULL BOX PER USDCCA DWG. DO. 404.133.
- 3 INSTALL VIDEO ENCODER AND DECODER.
- 4 DELIVER LAYER 2 FIELD-HARDENED ETHERNET SWITCH TO FAST.
- 5 STUB AND CAP CONDUIT.

CONDUIT AND WIRING NOTES:

SEE CONDUIT SCHEDULE SHEET IT-9

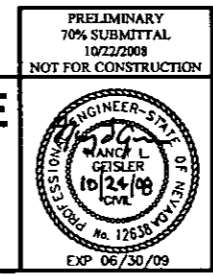


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 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
ITS PLAN
 "L" 360+00.00 to "L" 368+00.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PRELIMINARY 70% SUBMITTAL 10/22/2008 NOT FOR CONSTRUCTION	PROJECT No: 1014 DRAWN BY: ALB DESIGNED BY: ALB CHECKED BY: NLG APPROVED BY: TDL	SCALE HORIZ: AS SHOWN VERT: NONE FIELD BOOK: NONE WORK ORDER: 2008-	SHEET No IT-5
THE Louis Berger Group, INC. 500 AMIGO COURT, SUITE 100 *LAS VEGAS, NEVADA *89119 PHONE (702) 736-0832 *FAX (702) 736-0704			

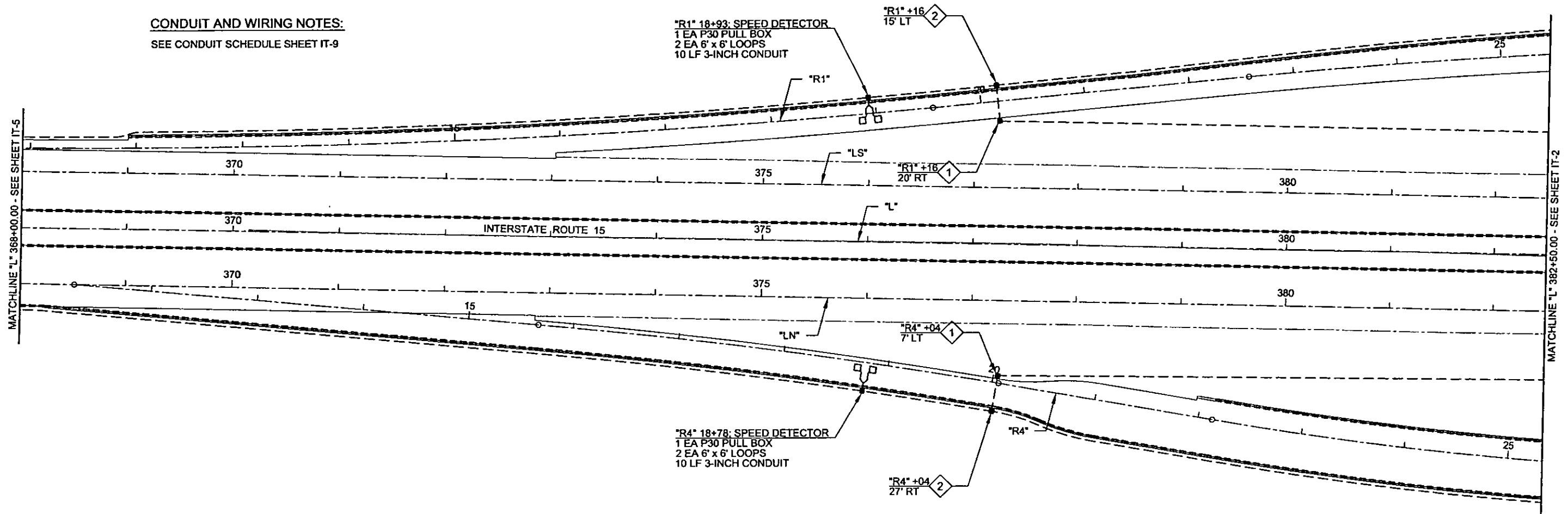


ITS NOTES:

- 1 INSTALL P30 PULL BOX PER USDCCA DWG. DO. 404.132.
- 2 INSTALL TYPE 200 PULL BOX PER USDCCA DWG. DO. 404.133.
- 3 INSTALL VIDEO ENCODER AND DECODER.
- 4 DELIVER LAYER 2 FIELD-HARDENED ETHERNET SWITCH TO FAST.
- 5 STUB AND CAP CONDUIT.

CONDUIT AND WIRING NOTES:

SEE CONDUIT SCHEDULE SHEET IT-9



MATCHLINE "L" 368+00.00 - SEE SHEET IT-5

MATCHLINE "L" 382+50.00 - SEE SHEET IT-2



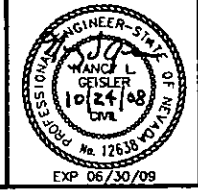
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REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
ITS PLAN
 "L"368+00.00 to "L" 382+50.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION



PROJECT No: 1014 DRAWN BY: ALB
 DESIGNED BY: ALB CHECKED BY: NLG
 APPROVED BY: IDL
THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119
 PHONE (702) 736-8832 • FAX (702) 736-0704

SCALE
 HORIZ: AS SHOWN
 VERT: NONE
 FIELD BOOK: NONE
 WORK ORDER: 2008-

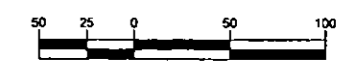
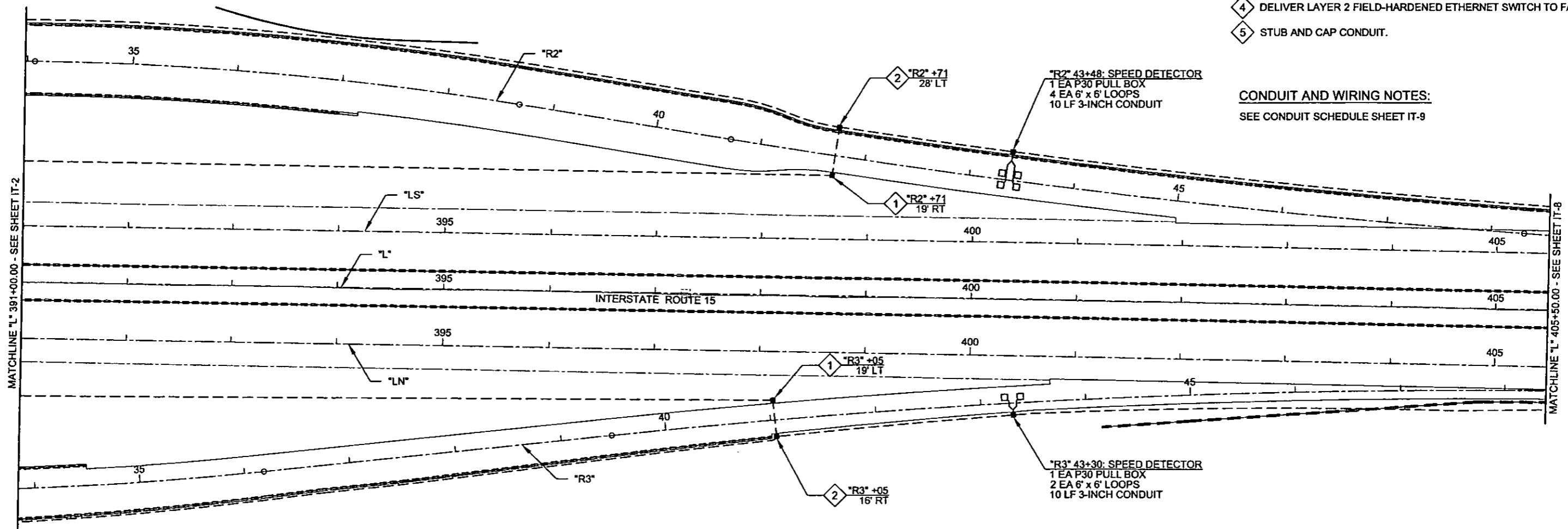
SHEET No
IT-6



ITS NOTES:

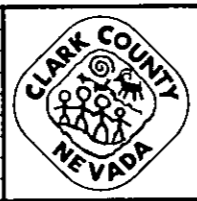
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- 2 INSTALL TYPE 200 PULL BOX PER USDCCA DWG. DO. 404.133.
- 3 INSTALL VIDEO ENCODER AND DECODER.
- 4 DELIVER LAYER 2 FIELD-HARDENED ETHERNET SWITCH TO FAST.
- 5 STUB AND CAP CONDUIT.

CONDUIT AND WIRING NOTES:
SEE CONDUIT SCHEDULE SHEET IT-9

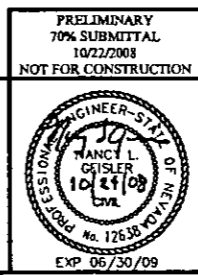


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 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
ITS PLAN
 "L" 391+00.00 to "L" 405+50.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

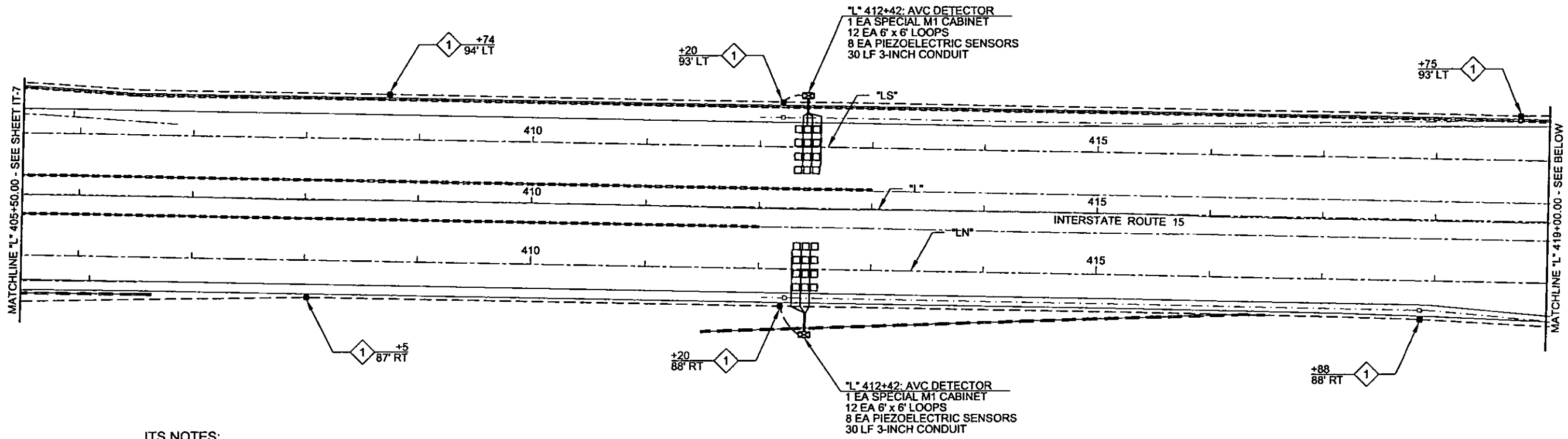


PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

PROJECT No: 1014 DRAWN BY: ALB
 DESIGNED BY: ALB CHECKED BY: NLG
 APPROVED BY: TDL

THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89110
 PHONE (702) 736-8832 • FAX (702) 736-0704

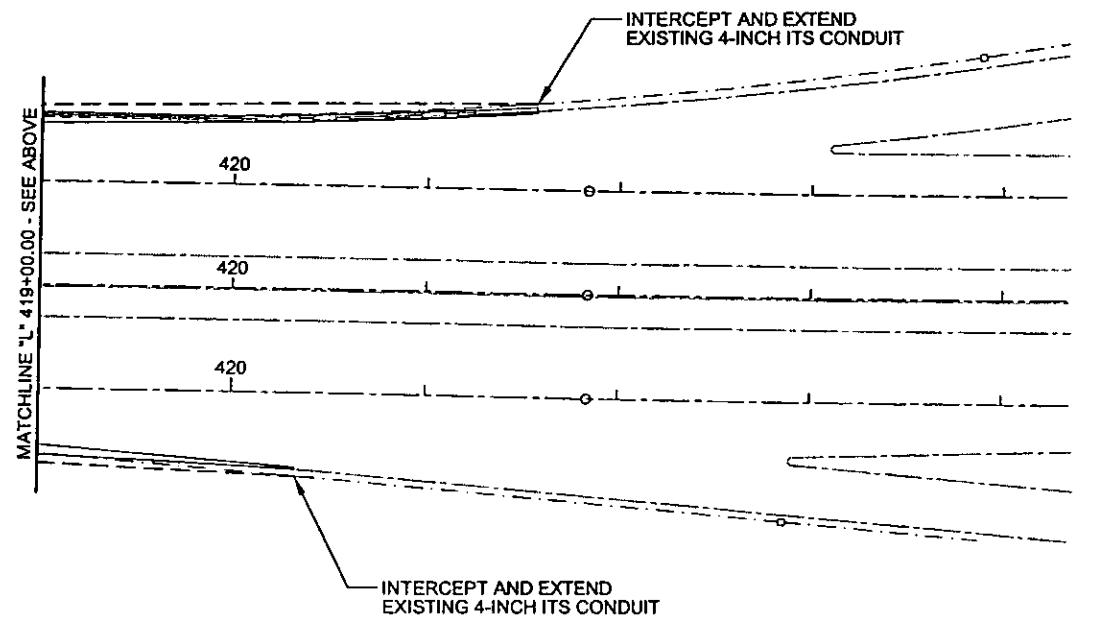
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HORIZ: AS SHOWN	
VERT: NONE	
FIELD BOOK: NONE	
WORK ORDER: 2008-	



ITS NOTES:

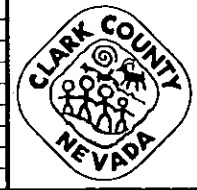
- 1 INSTALL P30 PULL BOX PER USDCCA DWG. DO. 404.132.
- 2 INSTALL TYPE 200 PULL BOX PER USDCCA DWG. DO. 404.133.
- 3 INSTALL VIDEO ENCODER AND DECODER.
- 4 DELIVER LAYER 2 FIELD-HARDENED ETHERNET SWITCH TO FAST.
- 5 STUB AND CAP CONDUIT.

CONDUIT AND WIRING NOTES:
SEE CONDUIT SCHEDULE SHEET IT-9

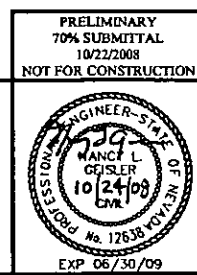


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 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
ITS PLAN
 "L" 405+50.00 to "L" 424+50.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

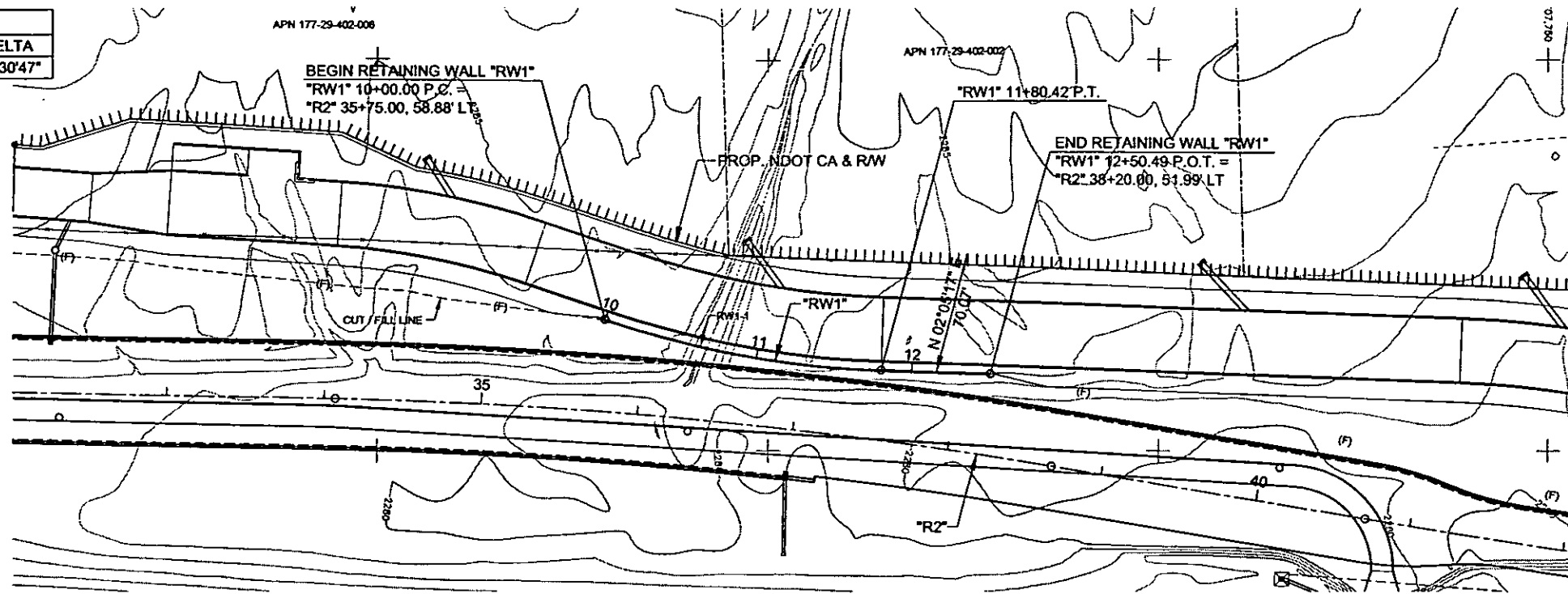
PROJECT No: 1014 DRAWN BY: ALB
 DESIGNED BY: ALB CHECKED BY: NLG
 APPROVED BY: TDL

THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 *LAS VEGAS, NEVADA *89118
 PHONE (702) 736-8832 *FAX (702) 736-0704

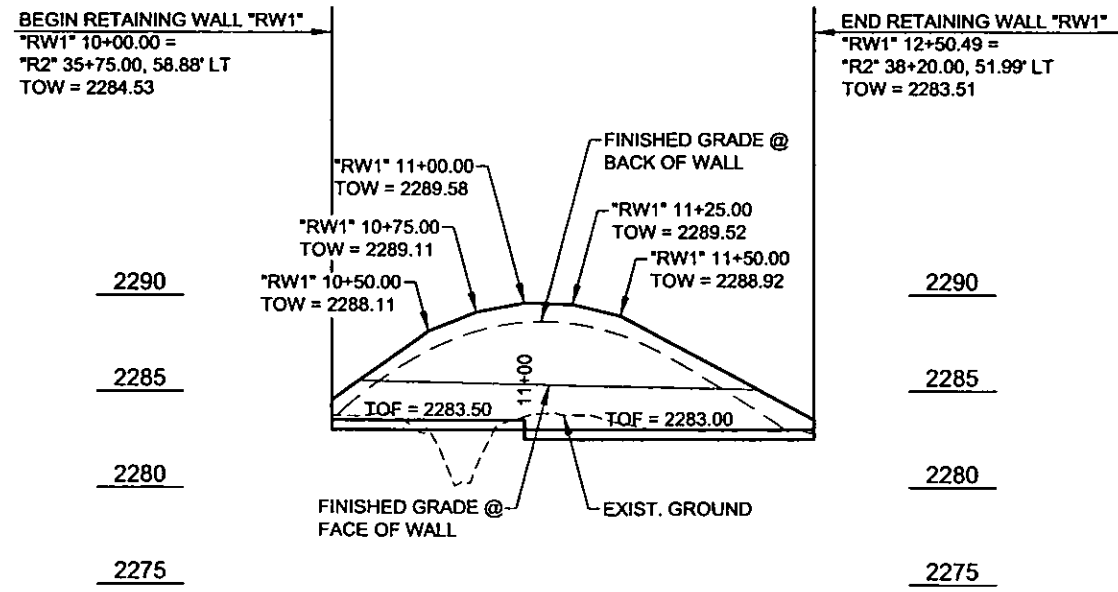
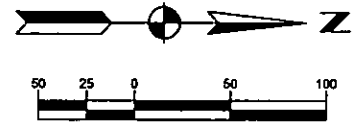
SCALE	
HORIZ.	AS SHOWN
VERT.	NONE
FIELD BOOK	NONE
WORK ORDER	2008-

SHEET No
IT-8

RETAINING WALL CURVE DATA				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
RW1-1	626.00'	180.42'	90.84'	16°30'47"



PLAN



ELEVATION

Call before you dig
Call 811
1-702-227-2929
NEVADA POWER DEPARTMENT AND SAFETY SERVICES DEPARTMENT
1-800-227-2600

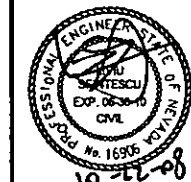
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 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
RETAINING WALL "RW1" PLAN AND ELEVATION
 "R2" 32+50.00 to "R2" 42+00.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

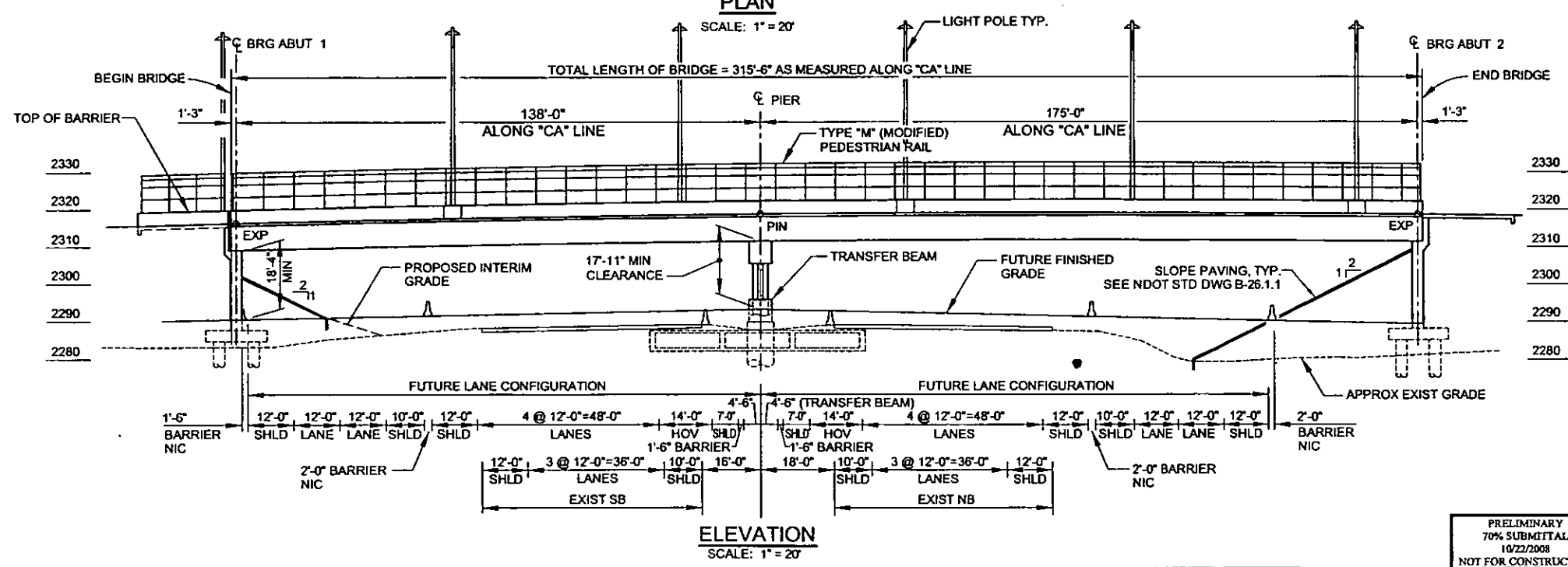
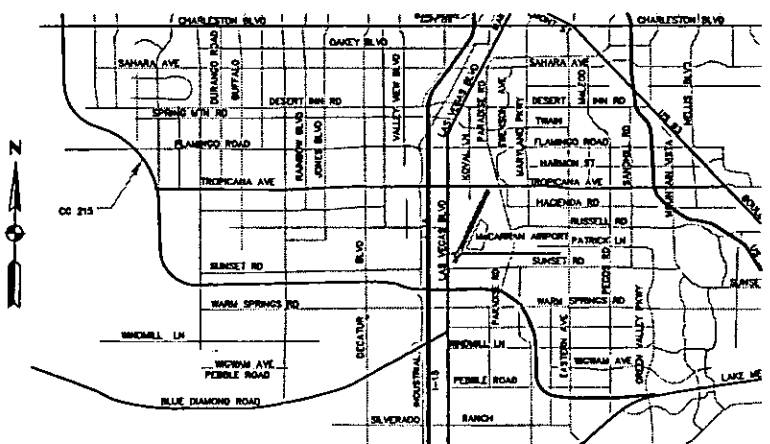
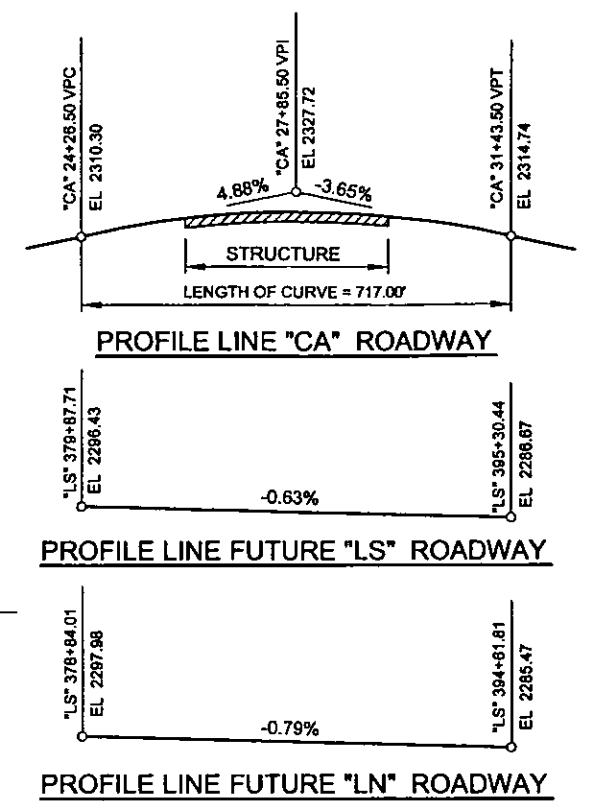
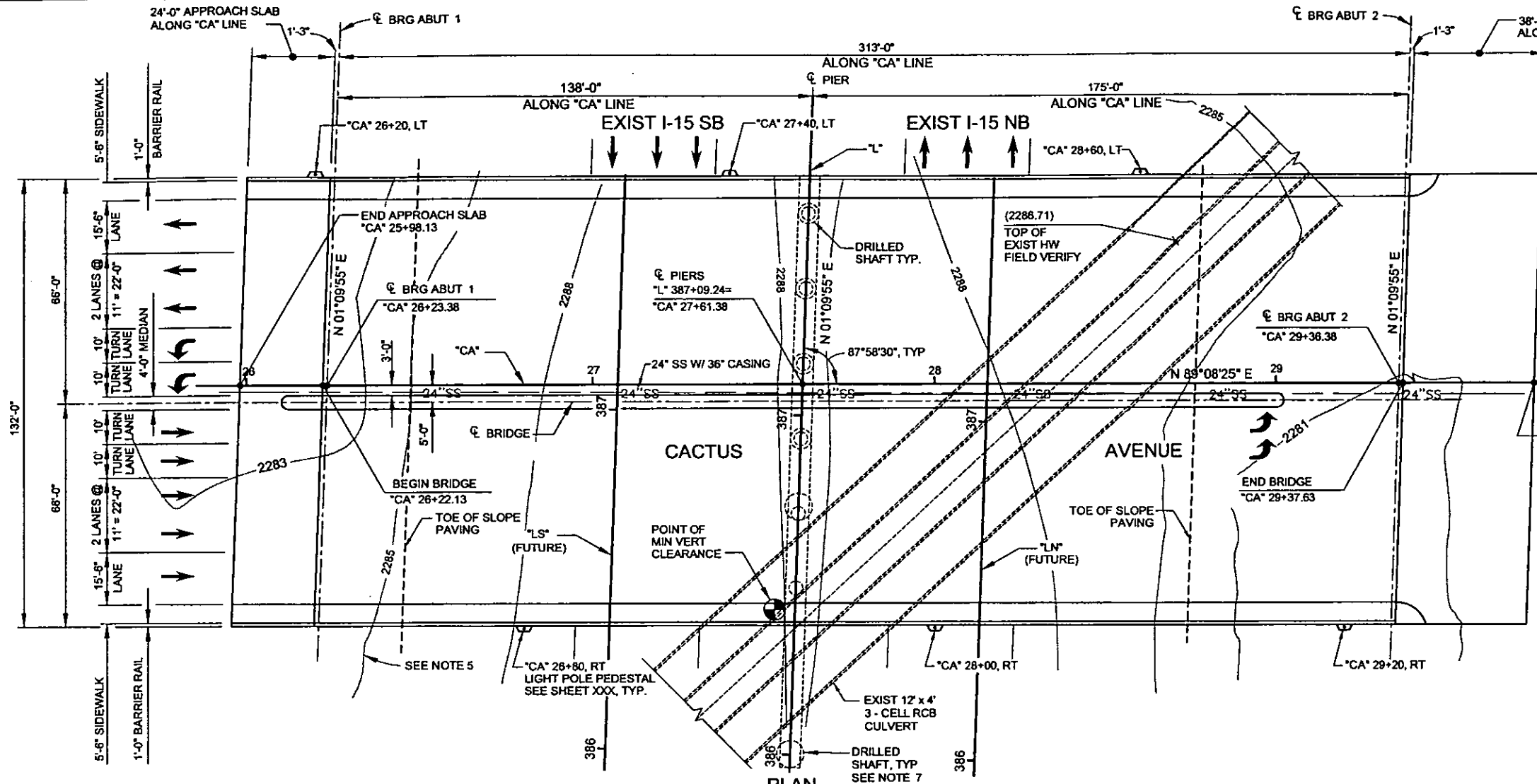
PRELIMINARY
 70% SUBMITTAL
 10/21/2008
 NOT FOR CONSTRUCTION



PROJECT No: CB1014 DRAWN BY: GFV
 DESIGNED BY: KK CHECKED BY: LSF
 APPROVED BY: TDL

THE Louis Berger Group, Inc.
 500 AMIGO COURT, SUITE 100 LAS VEGAS, NEVADA 89119
 PHONE (702) 736-6032 * FAX (702) 736-0704

SCALE		SHEET No
HORIZ:	AS SHOWN	RW-1
VERT:	NONE	
FIELD BOOK:	NONE	
WORK ORDER:	2008-	



- NOTES:**
- FOR LIGHTING SEE LIGHTING PLANS.
 - FOR UTILITIES SEE UTILITY PLANS.
 - FOR DRAINAGE AND MEDIAN LAYOUT & DETAILS, SEE ROADWAY PLANS.
 - CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES (SHOWN OR OTHERWISE) IN WORK AREA AND PROVIDING PROTECTION FOR SAME PRIOR TO PROCEEDING WITH THE WORK. SEE UTILITY DRAWINGS FOR UTILITY REQUIREMENTS.
 - CONTOURS FOR EXISTING I-15.
 - NIC : NOT IN CONTRACT
 - TRANSFER BEAM NOT SHOWN FOR CLARITY.

P:\CPCWCB\1014-Cactus Avenue\1014-151.dwg - 02/22/2008 - 10:38:28 WSW
 PLOT DATE: Friday, October 2, 2008 11:35:14 AM
 FILE NAME: P:\CPCWCB\1014-Cactus Avenue\1014-151.dwg
 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED

CACTUS AVENUE / I-15 INTERCHANGE

DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD

CACTUS AVENUE / I-15 INTERCHANGE PLAN, PROFILE AND ELEVATION

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PRELIMINARY
70% SUBMITTAL
10/22/2008
NOT FOR CONSTRUCTION

PROJECT No: CB1014 DESIGNED BY: RSG APPROVED BY: KHS	DRAWN BY: SSM CHECKED BY: BMS	SCALE AS SHOWN HORIZ: 1" = 20' VERT: 1" = 20' FIELD BOOK: NONE WORK ORDER: 2008-	SHEET No <h1 style="margin: 0;">B-101</h1>
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THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 LAS VEGAS, NEVADA 89119
 PHONE (702) 736-6032 FAX (702) 736-0704

GENERAL NOTES:

1. DESIGN SPECIFICATIONS: AASHTO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES", 17th EDITION, 2002, LOAD FACTOR DESIGN.

2. DEAD LOAD: IN ACCORDANCE WITH SPECIFICATIONS WITH AN ALLOWANCE OF 38 PSF FOR FUTURE OVERLAY SURFACE AND 15 PSF FOR STAY-IN-PLACE FORMS.

3. LIVE LOAD: AASHTO HS-25 LOADING, OVERLOAD DESIGN BASED ON CALIFORNIA "STANDARD PERMIT DESIGN VEHICLES" (MAX ALLOWABLE OVERLOAD: "P13" TRUCK.) DECK DESIGN BASED ON THE EQUIVALENT STRIP METHOD WITH A 40.0-KIP AXLE.

4. SEISMIC LOAD: ACCELERATION COEFFICIENT 0.15g WITH TYPE II SOIL, DETAILED TO MEET SEISMIC PERFORMANCE CATEGORY C.

5. FATIGUE: STRESS DESIGN CYCLES = 2 MILLION.

DESIGN STRESSES:

STRUCTURAL STEEL
 AASHTO M270 GRADE 50 Fy = 50,000 PSI
 AASHTO M270 GRADE 36 Fy = 36,000 PSI

CONCRETE
 CLASS A MODIFIED (MAJOR) Fc = 4,500 PSI

REINFORCING STEEL
 ASTM A-708 GRADE 60 Fy = 60,000 PSI

DESIGN TEMPERATURE:

BASE 70° F
 RISE 50° F
 FALL 70° F

8. CONCRETE: SEE CONCRETE CLASSIFICATION DIAGRAM FOR CONCRETE CLASS AND COMPRESSIVE STRENGTHS. UNLESS OTHERWISE NOTED ALL CONSTRUCTION JOINTS SHALL BE INTENTIONALLY ROUGHENED TO 1/4 INCH MAGNITUDE. UNLESS OTHERWISE NOTED ALL REINFORCING BARS SHALL HAVE 2 INCH CLEAR CONCRETE COVER. TYPE V CEMENT SHALL BE USED FOR ALL CONCRETE IN CONTACT WITH SOIL.

9. REINFORCING STEEL: ALL REINFORCING STEEL SHALL BE ASTM A706, GRADE 60. DIMENSIONS RELATING TO BAR SPACING ARE CENTER TO CENTER. BENDING DIMENSIONS ARE FROM OUT TO OUT OF THE BARS. THE LENGTH OF THE BAR, SIZES FOUR (4) AND FIVE (5), WHEN CONSIDERED AS BARS TO CONTROL TEMPERATURE, SHRINKAGE, AND DISTRIBUTION STRESSES BY THE OWNER, MAY BE ADJUSTED UPON CONCURRENCE AND APPROVAL OF THE OWNER.

10. STRUCTURAL STEEL: ALL STRUCTURAL STEEL SHALL BE AASHTO M270 GRADE 50, EXCEPT AS SHOWN ON PLANS OR AS NOTED BELOW.

INTERMEDIATE CROSS FRAMES, END FRAMES, GIRDER STIFFENERS AND CONNECTOR PLATES, EXPANSION JOINTS, GUSSETS AND BEARINGS SHALL BE AASHTO M270, GRADE 36.

ALL STEEL SUBJECT TO CHARPY V-NOTCH REQUIREMENTS SHALL CONFORM TO ZONE 2. ALL MATERIAL REQUIRING CHARPY V-NOTCH TEST ARE INDICATED ON THE PLANS.

THE FABRICATOR SHALL HAVE A CATEGORY CB/P CERTIFICATION BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION QUALITY CERTIFICATION PROGRAM.

11. FASTENERS: ALL ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 GRADE 55. ALL ANCHOR BOLTS AND NUTS SHALL BE GALVANIZED PER AASHTO M232.

ALL BOLTED CONNECTIONS SHALL USE xx DIAMETER HIGH STRENGTH BOLTS CONFORMING TO AASHTO M164 (ASTM A325) UNLESS NOTED OTHERWISE. ALL BOLTED CONNECTIONS SHALL CONFORM TO AASHTO SPECIFICATIONS FOR SLIP-CRITICAL JOINTS, CLASS B. SLIP COEFFICIENT OF 0.50. ALL HOLES FOR BOLTS SHALL BE 1/16" FOR 1" BOLTS.

12. CAMBER: THE GIRDERS SHALL BE CAMBERED FOR TOTAL DEAD LOAD AND THE EFFECTS OF VERTICAL CURVATURE. CAMBER SHALL BE AS SHOWN ON THE PLANS.

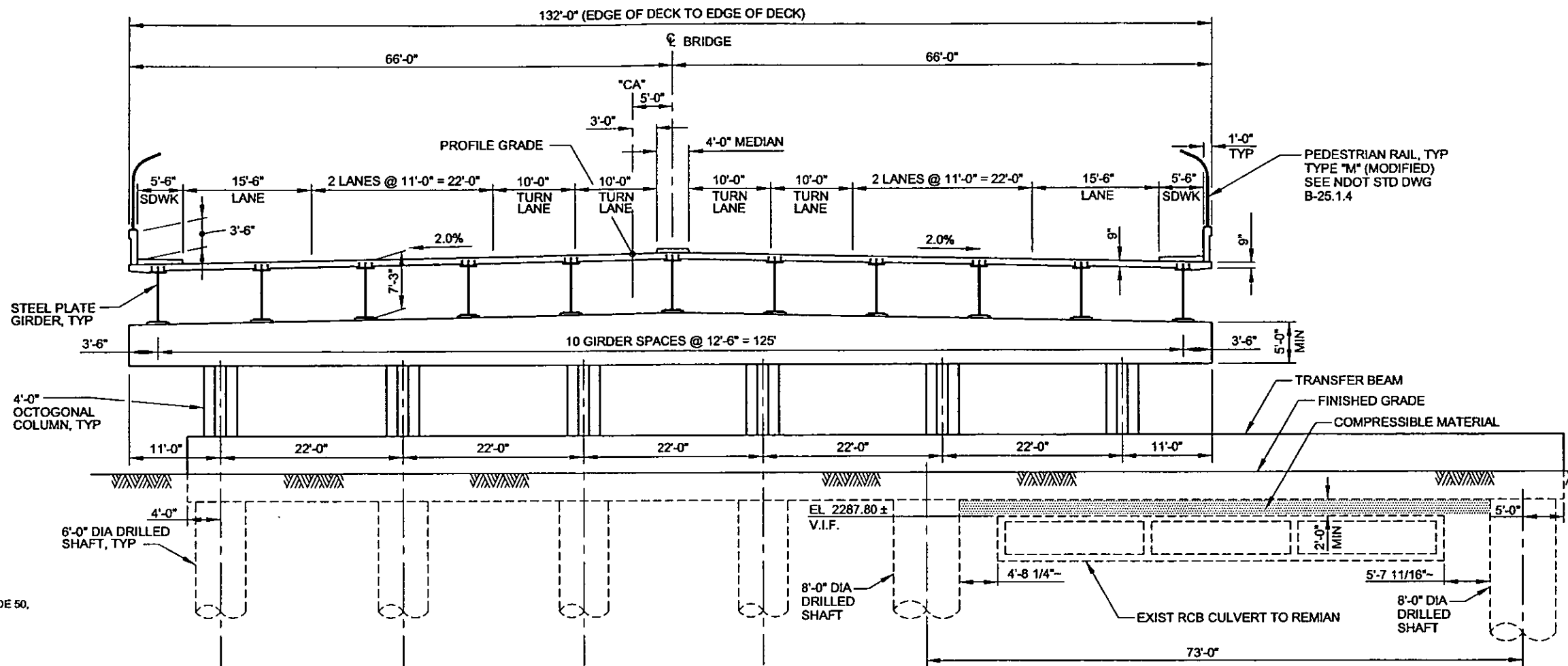
13. PAINTING: STRUCTURAL STEEL SHALL BE PAINTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. ALL STRUCTURAL STEEL COATINGS SHALL BE APPLIED IN THE FABRICATION SHOP. FIELD COATING OVER TRAFFIC WILL NOT BE ALLOWED.

14. CONSTRUCTION TYPE CODE: X271.

15. PLAN DIMENSIONS AND ELEVATIONS: UNLESS OTHERWISE NOTED, ALL PLAN DIMENSIONS SHOWN ARE MEASURED HORIZONTALLY OR VERTICALLY AND REFLECT THE FINAL GEOMETRIC SHAPE AND LOCATION OF ALL ELEMENTS AT A MEAN SURFACE TEMPERATURE OF 70 DEGREE FAHRENHEIT.

16. FINE SURFACE FINISH: ALL EXPOSED CONCRETE SURFACES, EXCEPT TOP SURFACES OF DECK SLAB AND SOFFIT OF DECK SLAB BETWEEN OUTSIDE GIRDERS SHALL BE FINE-SURFACED FINISHED. ALL SURFACES IN CONTACT WITH THE GROUND SHALL BE FINE-SURFACED FINISHED TO A POINT 1'-0" BELOW THE FINISHED GROUNDLINE.

17. GEOTECHNICAL REPORT AT THIS TIME ONLY A PRELIMINARY GEOTECHNICAL REPORT, DATED JULY 18, 2007, IS AVAILABLE. FINAL DESIGN OF THE SUBSTRUCTURE IS PENDING RECEIPT OF FINAL GEOTECHNICAL REPORT.



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

INDEX OF SHEETS

- B-101 PLAN, PROFILE AND ELEVATION
- B-102 TYPICAL SECTION, GENERAL NOTES, QUANTITIES AND DRAWING INDEX
- B-103 GEOMETRICS
- B-104 ABUTMENTS 1 & 2 FOOTINGS AND SECTION
- B-105 ABUTMENT 1 PLAN AND ELEVATION
- B-106 ABUTMENT 2 PLAN AND ELEVATION
- B-107 ABUTMENT SIDEWALL AND WINGWALL DETAILS (NOT IN SUBMITTAL)
- B-108 ABUTMENT SIDEWALL AND WINGWALL DETAILS
- B-109 ABUTMENT DRILLED SHAFT DETAILS
- B-110 PIER TRANSFER BEAM DETAILS
- B-111 PIER TRANSFER BEAM DETAILS
- B-112 PIER COLUMN AND DRILLED SHAFT DETAILS
- B-113 PIER DRILLED SHAFT DETAILS
- B-114 PIER CAP DETAILS
- B-115 PIER CAP DETAILS
- B-116 ELASTOMETRIC BEARING PADS
- B-117 GIRDER ELEVATION
- B-118 GIRDER FIELD SPLICES
- B-119 FRAMING PLAN
- B-120 CROSS FRAME DETAILS
- B-121 CROSS FRAME DETAILS
- B-122 GIRDER DETAILS
- B-123 CAMBER DETAILS
- B-124 TYPICAL DECK SECTION AND DETAILS
- B-125 DECK SLAB REINFORCING
- B-126 DECK CONCRETE POURING SCHEDULE
- B-127 APPROACH SLAB
- B-128 BARRIER RAIL AND SIDEWALK LAYOUT (NOT IN SUBMITTAL)
- B-129 BARRIER RAIL AND SIDEWALK DETAILS (NOT IN SUBMITTAL)
- B-130 STRIPSEAL EXPANSION JOINT (NOT IN SUBMITTAL)
- B-131 BENT BAR DETAILS (NOT IN SUBMITTAL)
- B-132 BILL OF MATERIALS (NOT IN SUBMITTAL)

BAR SIZE	LAP
#4	2'-0"
#5	2'-4"
#6	2'-9"
#7	3'-6"
#8	4'-7"
#9	5'-10"
#10	7'-4"
#11	9'-0"

LAP SPLICE TABLE

NOTE:
 STAGGER ADJACENT LAP SPLICES
 A MINIMUM OF 2'-0"

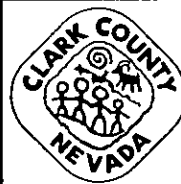
APPROXIMATE BRIDGE QUANTITIES			
SPEC. SECTION	ITEM	UNIT	TOTAL
206	STRUCTURE EXCAVATION	CU.YD.	200
207	GRANULAR BACKFILL	CU.YD.	1,480
502	CLASS A CONCRETE (MODIFIED) (MAJOR) 4500 PSI	CU.YD.	4,100
502	LAMINATED ELASTOMETRIC BEARING PAD	EACH	33
502	FINE SURFACE FINISH	SQ. YD.	1,950
502	STRIP SEAL EXPANSION JOINT (3 - INCH MOVEMENT)	L.F.	264
502	BRIDGE DECK CURING COMPOUND	GALLON	370
502	GROOVE CONCRETE DECK SLAB	SQ.YD.	4,800
502	PEDESTRIAN RAIL TYPE M (MOD)	L.F.	680
505	REINFORCING STEEL	LB.	800,000
506	STRUCTURAL STEEL	LB.	1,800,000
509	3'-0" DIAMETER DRILLED SHAFT	L.F.	3,600
509	6'-0" DIAMETER DRILLED SHAFT	L.F.	330
509	8'-0" DIAMETER DRILLED SHAFT	L.F.	180
611	CLASS A CONCRETE SLOPE PAVEMENT 4500 PSI	CU.YD.	150

NOTES:

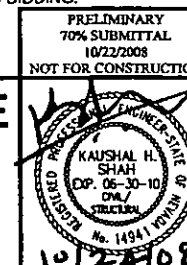
- CONCRETE AND REINFORCING STEEL QUANTITIES DO NOT INCLUDE DRILLED SHAFT CONCRETE AND REINFORCING STEEL.
- THE QUANTITIES NOTED ABOVE ARE INFORMATION ONLY AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL QUANTITIES PRIOR TO BIDDING.

PLOT DATE: Friday, October 12, 2007 1:42:49 PM
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 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED

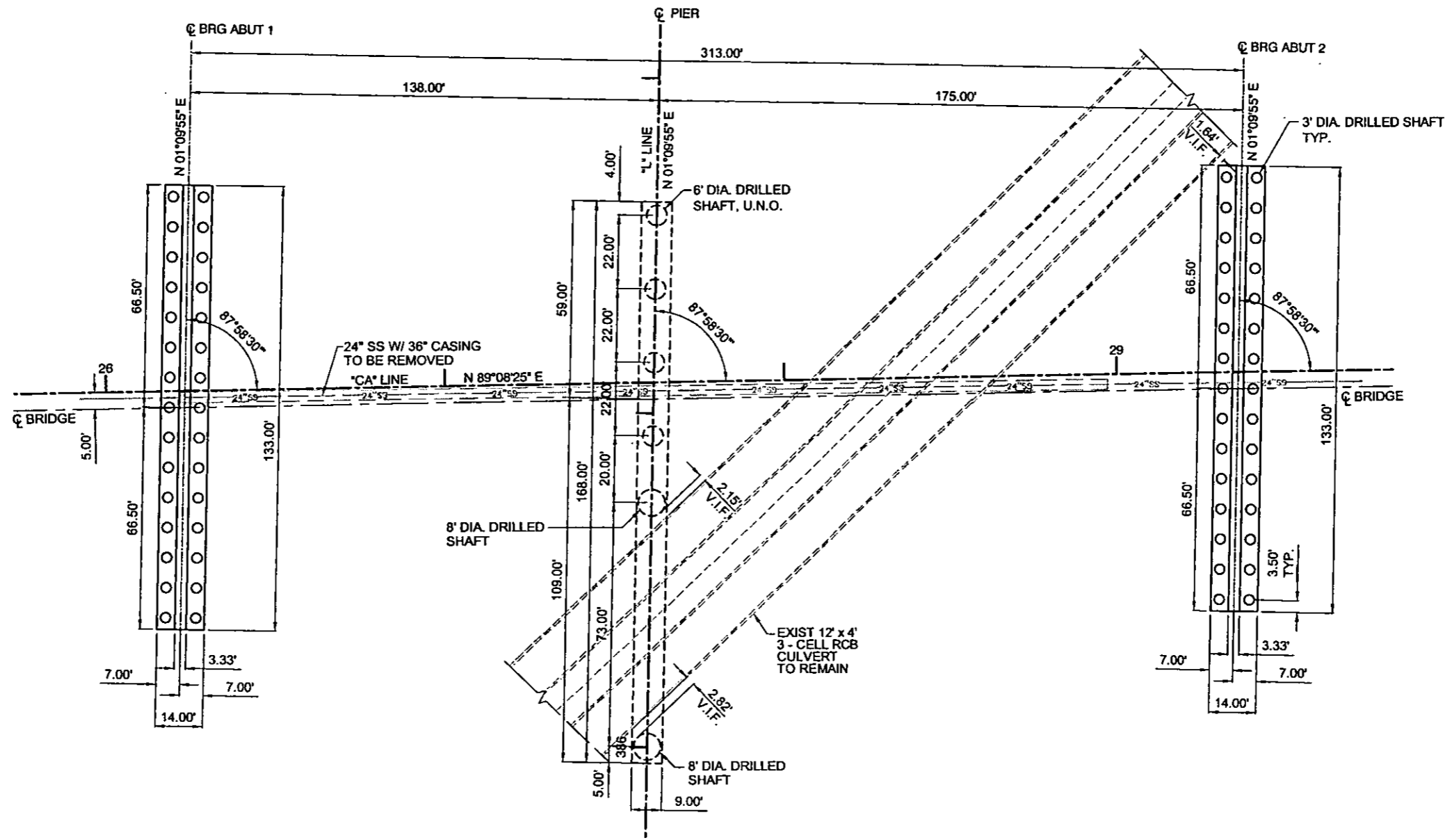


CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
CACTUS AVENUE / I-15 INTERCHANGE
TYP. SECTION, GENERAL NOTES, QUANTITIES & INDEX
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: CB1014 DRAWN BY: SSM
 DESIGNED BY: RSG CHECKED BY: BMS
 APPROVED BY: KHS
THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 *LAS VEGAS, NEVADA *89119
 PHONE (702) 736-8832 *FAX (702) 736-0704

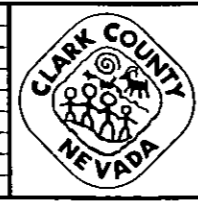
SCALE AS SHOWN	SHEET No
HORIZ:	B-102
VERT:	
FIELD BOOK NONE	
WORK ORDER 2008	



GEOMETRIC PLAN
SCALE: 1" = 20'

PLOT DATE: Friday, October 2, 2008 2:13:30 PM
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 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



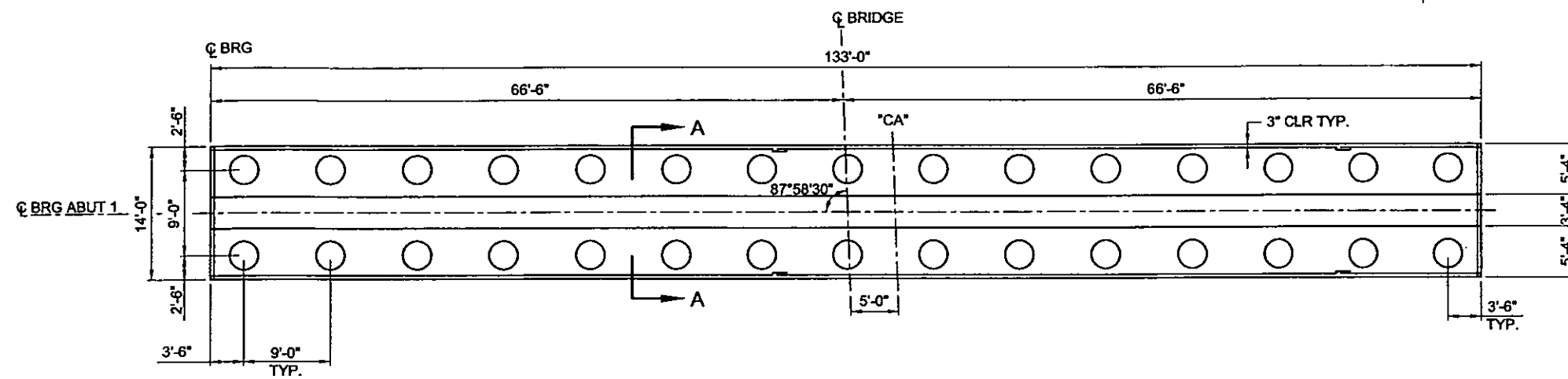
CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
CACTUS AVENUE / I-15 INTERCHANGE
GEOMETRICS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

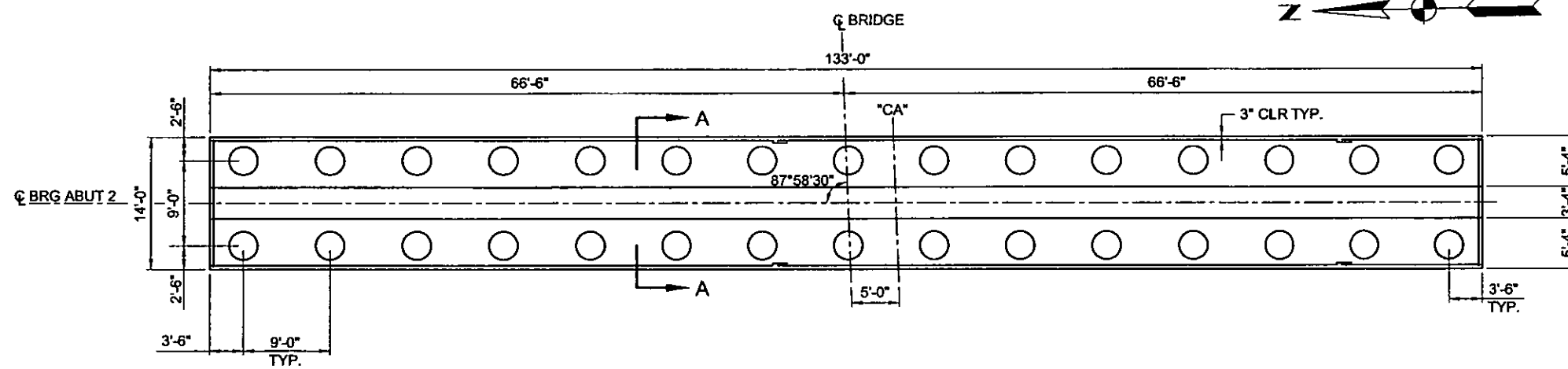
PROJECT No: CB1014 DRAWN BY: SSM
 DESIGNED BY: RSG CHECKED BY: BMS
 APPROVED BY: KHS

THE Louis Berger Group, Inc.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119
 PHONE (702) 736-8632 • FAX (702) 736-0704

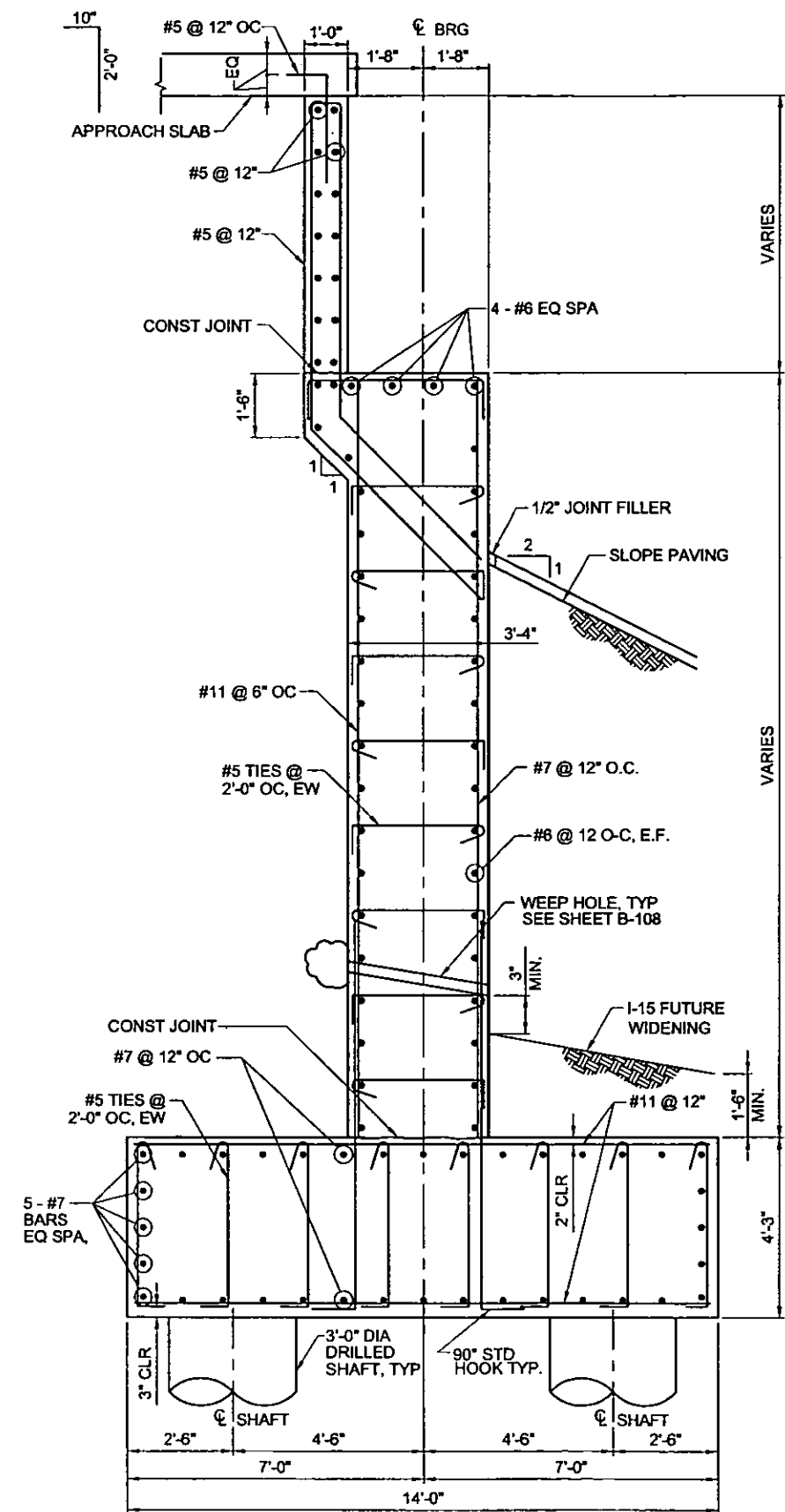
SCALE AS SHOWN	SHEET No
HORIZ:	B-103
VERT:	
FIELD BOOK NONE	
WORK ORDER 2008	



ABUTMENT 1 FOOTING REINFORCING
SCALE: 1/8" = 1'-0"



ABUTMENT 2 FOOTING REINFORCING
SCALE: 1/8" = 1'-0"



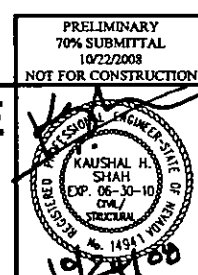
SECTION A-A
SCALE: 1/2" = 1'-0"

PLOT DATE: Friday, October 2, 2008 2:13:24 PM
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REV. NO.	DATE	DESCRIPTION	APPROVED

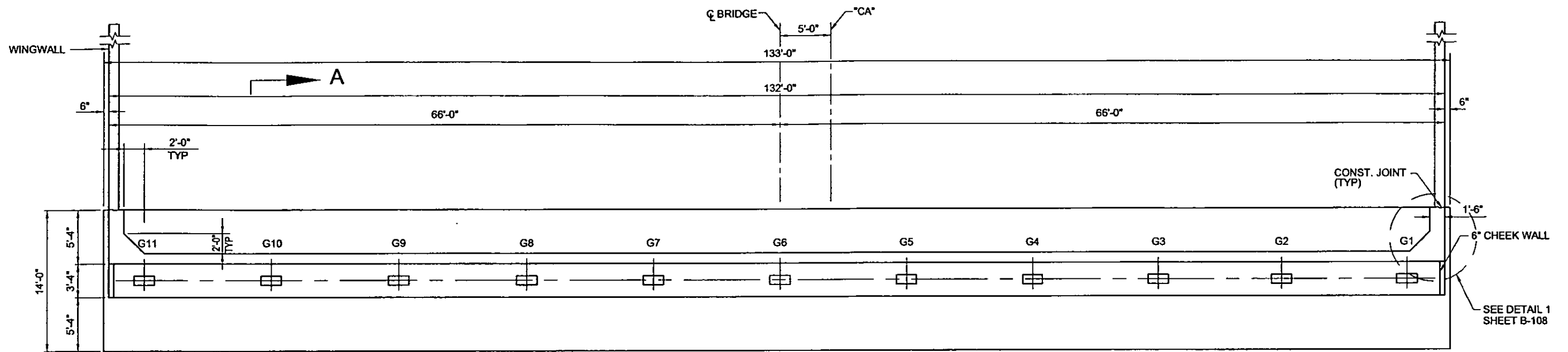


CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
CACTUS AVENUE / I-15 INTERCHANGE
ABUTMENT 1 & 2 FOOTINGS AND SECTION
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: CBI014 DRAWN BY: SSM
 DESIGNED BY: RSG CHECKED BY: BMS
 APPROVED BY: KHS
THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 LAS VEGAS, NEVADA 89118
 PHONE (702) 736-8832 FAX (702) 736-0704

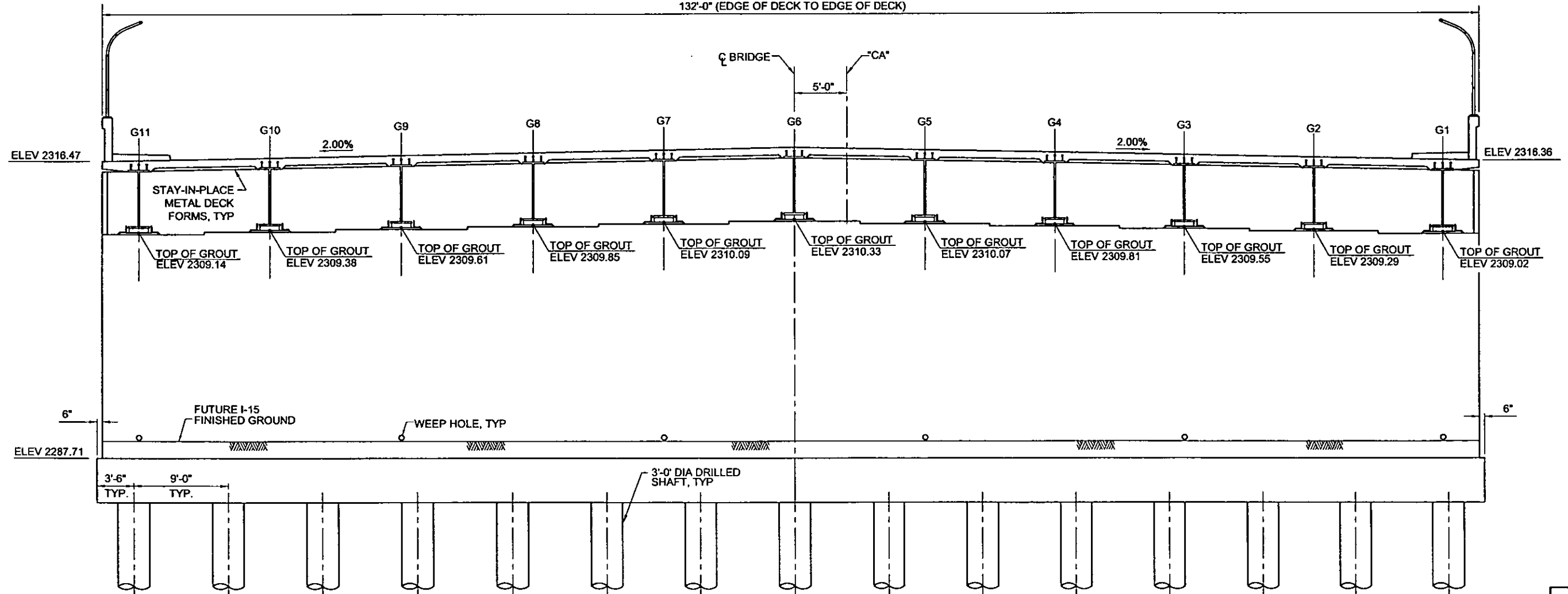
SCALE AS SHOWN	SHEET No
HORIZ:	B-104
VERT:	
FIELD BOOK NONE	
WORK ORDER 2008	



ABUTMENT 1 PLAN

3/16" = 1'-0"

132'-0" (EDGE OF DECK TO EDGE OF DECK)

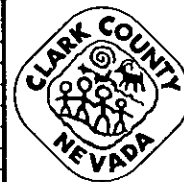


ABUTMENT 1 ELEVATION

3/16" = 1'-0"

PLOT DATE: Friday, October 2, 2008 2:14:10 PM
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 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED

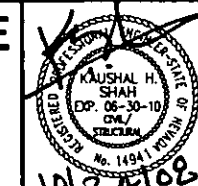


CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD

CACTUS AVENUE / I-15 INTERCHANGE
ABUTMENT 1 PLAN AND ELEVATION

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PRELIMINARY
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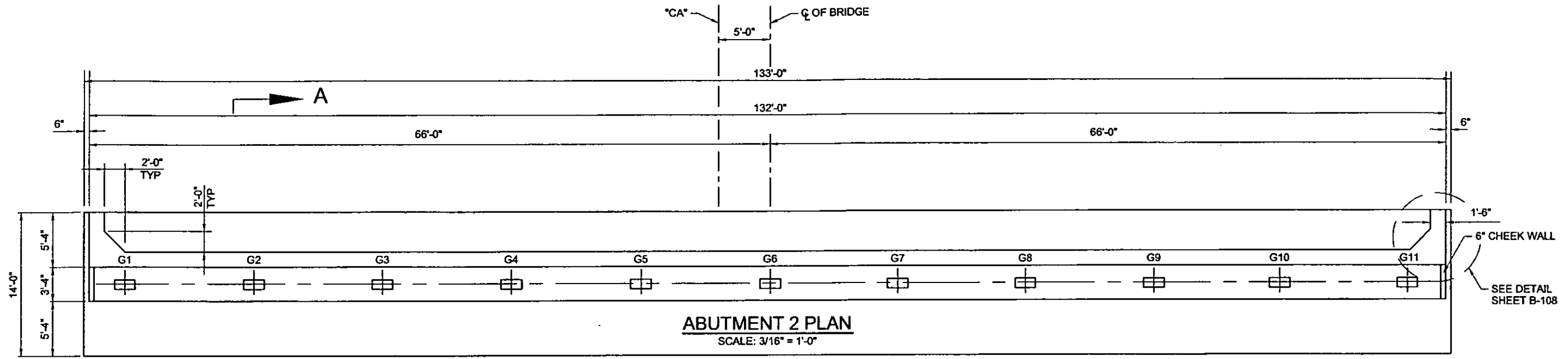
PROJECT No: CB1014 DRAWN BY: SSM
 DESIGNED BY: RSG CHECKED BY: BMS
 APPROVED BY: KHS

THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 LAS VEGAS, NEVADA 89119
 PHONE (702) 736-0832 FAX (702) 736-0704

SCALE AS SHOWN
 HORIZ: _____
 VERT: _____
 FIELD BOOK NONE
 WORK ORDER 2008-

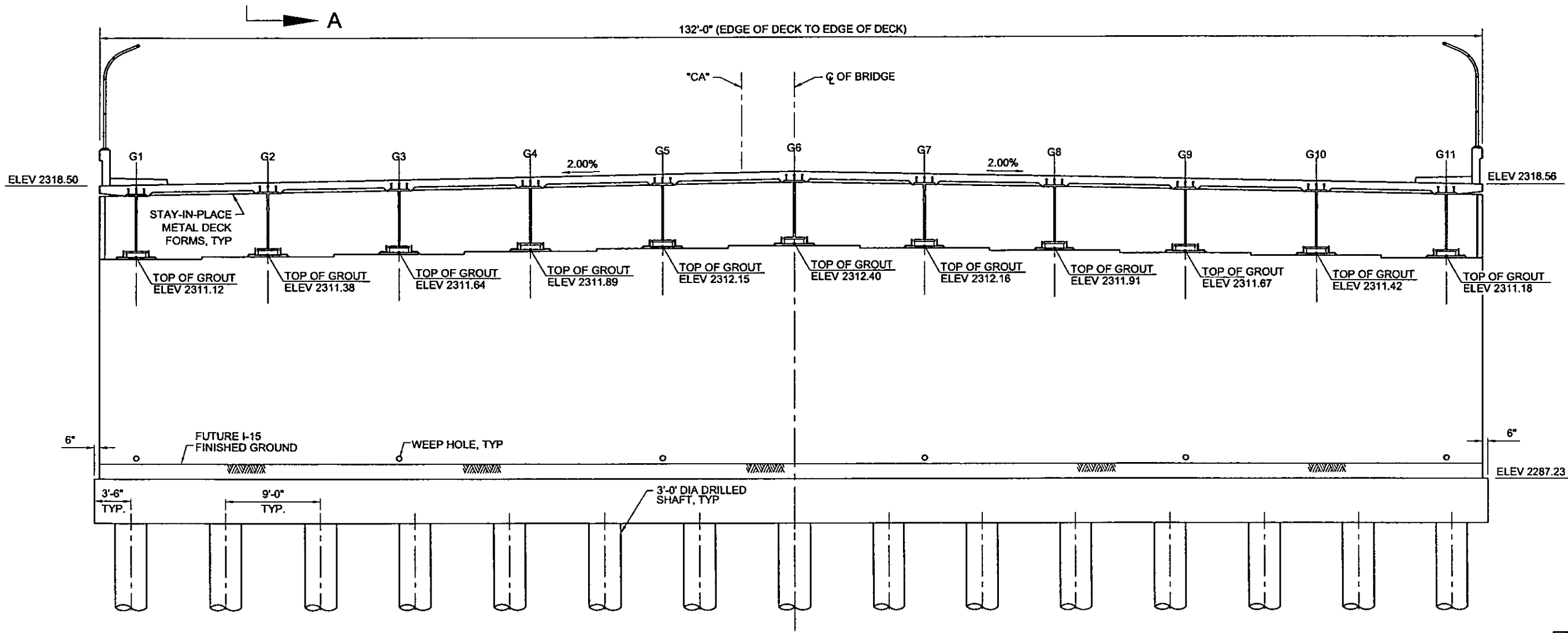
SHEET No
B-105

10/22/08



ABUTMENT 2 PLAN
SCALE: 3/16" = 1'-0"

1'-6"
6" CHEEK WALL
SEE DETAIL SHEET B-108



ABUTMENT 2 ELEVATION
SCALE: 3/16" = 1'-0"

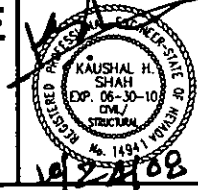
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 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
CACTUS AVENUE / I-15 INTERCHANGE
ABUTMENT 2 PLAN AND ELEVATION
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

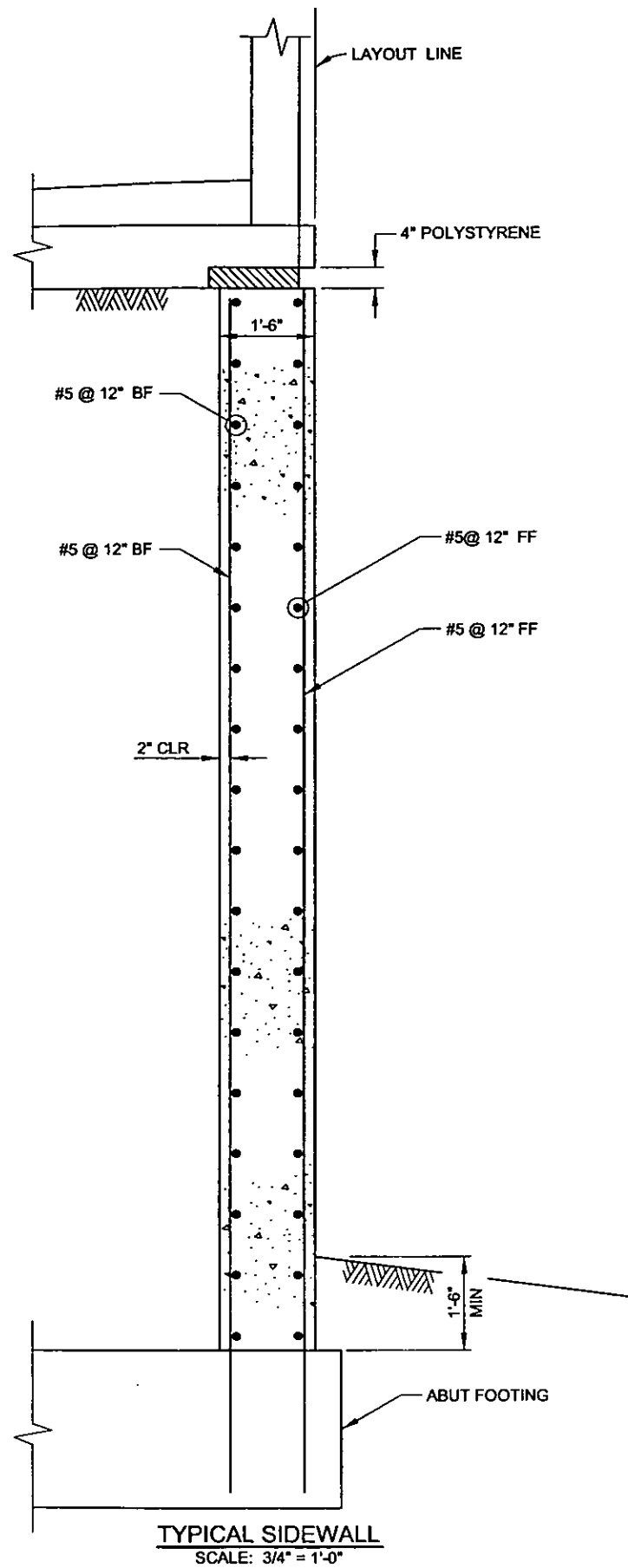
PRELIMINARY
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 NOT FOR CONSTRUCTION



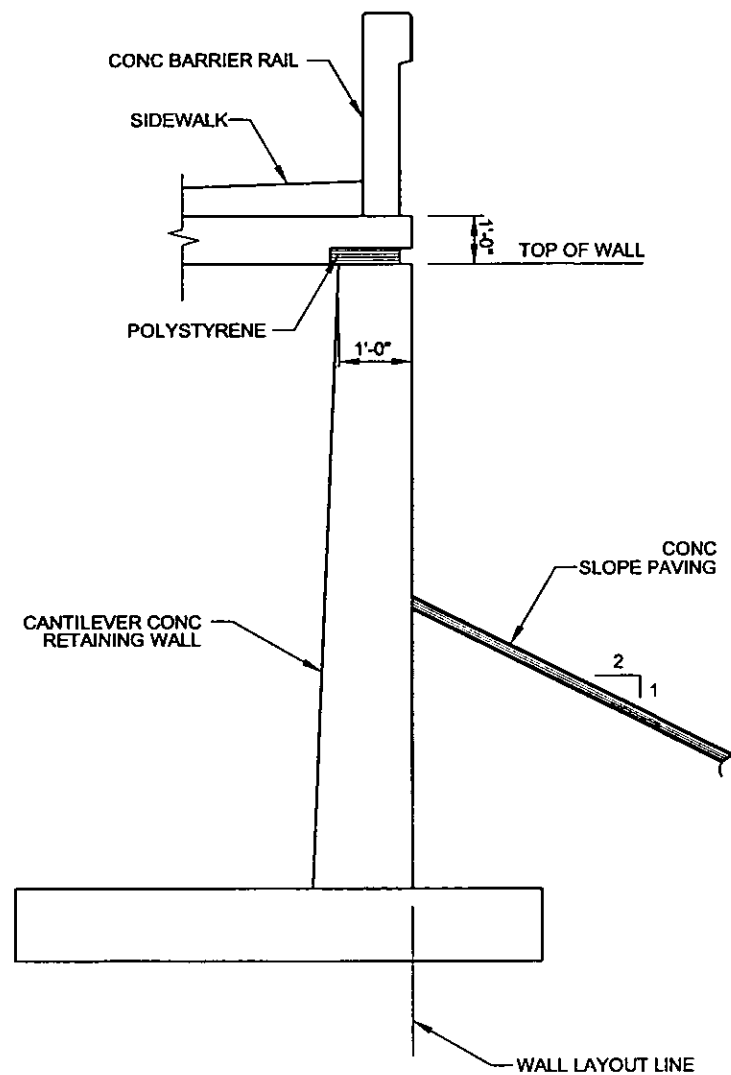
PROJECT No: CB1014 DRAWN BY: WHW
 DESIGNED BY: RSG CHECKED BY: KHS
 APPROVED BY: JCR
THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 LAS VEGAS, NEVADA 89119
 PHONE (702) 736-6832 FAX (702) 736-0704

SCALE: AS SHOWN
 HORIZ:
 VERT:
 FIELD BOOK: NONE
 WORK ORDER: 2008-

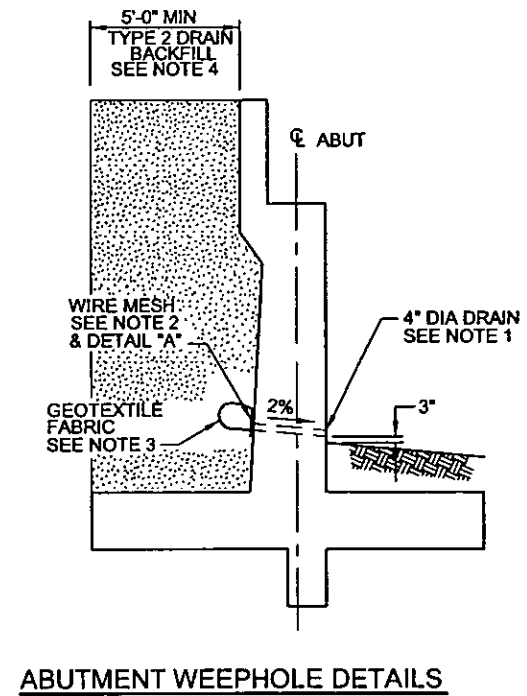
SHEET No
B-106



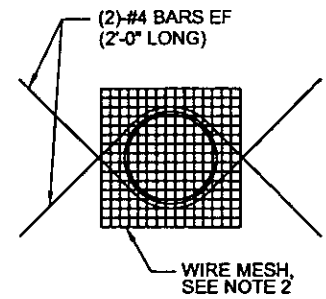
TYPICAL SIDEWALL
SCALE: 3/4" = 1'-0"



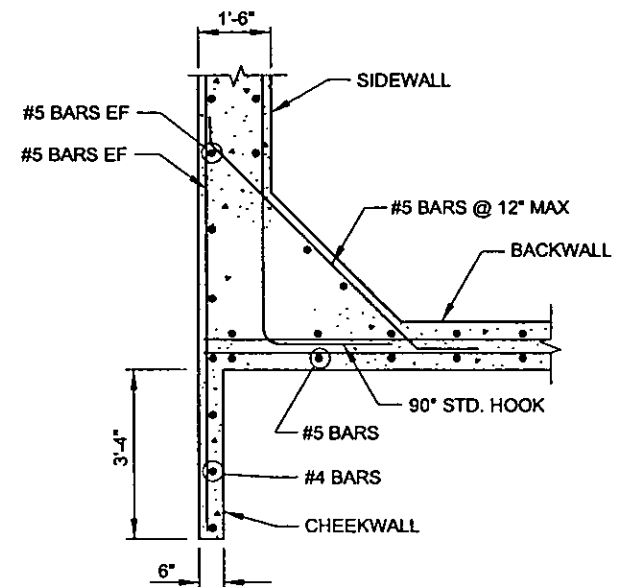
TYPICAL WINGWALL
SCALE: 1/2" = 1'-0"



ABUTMENT WEEPHOLE DETAILS



DETAIL A



DETAIL 1
SCALE: 1/2" = 1'-0"

NOTES:

1. 4" DIAMETER DRAINS WITH HORIZONTAL SPACING OF 15' CENTER TO CENTER. THE BOTTOM ROW MUST BE LOCATED 3" ABOVE FINISHED GRADE.
2. 6" SQUARE ALUMINUM OR GALVANIZED STEEL WIRE MESH HARDWARE CLOTH WITH A MINIMUM WIRE DIAMETER OF 0.03".
3. 2 CU FT OF NDOT TYPE 2 DRAIN BACKFILL, ENCAPSULATED IN A GEOTEXTILE FABRIC, SECURELY TIED.

THE GEOTEXTILE FABRIC MUST:
A) MEET OR EXCEED AASHTO TEST METHOD M288 CLASS 2 STRENGTH REQUIREMENTS.
B) HAVE AN A.O.S. NO GREATER THAN U.S. SIEVE NO. 40.
C) HAVE A MINIMUM PERMITTIVITY OF 0.5 SEC -1
4. PLACE 5'-0" WIDTH OF DRAIN BACKFILL ALONG THE FULL LENGTH OF ABUTMENTS AND WINGWALLS. THE ESTIMATED QUANTITY OF DRAIN BACKFILL HAS BEEN INCLUDED IN THE QUANTITY SHOWN FOR GRANULAR BACKFILL.
5. NO DIRECT PAYMENT WILL BE MADE FOR WORK OR MATERIALS REQUIRED TO CONSTRUCT WEEPHOLES.

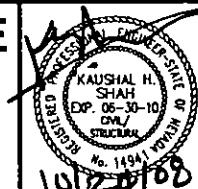
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 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



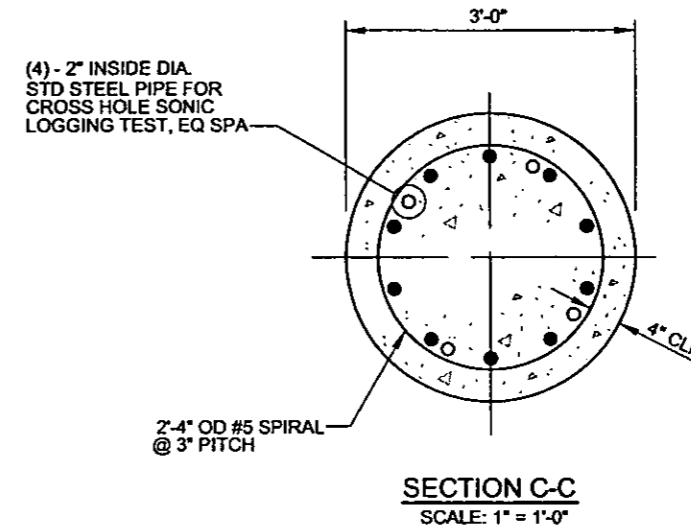
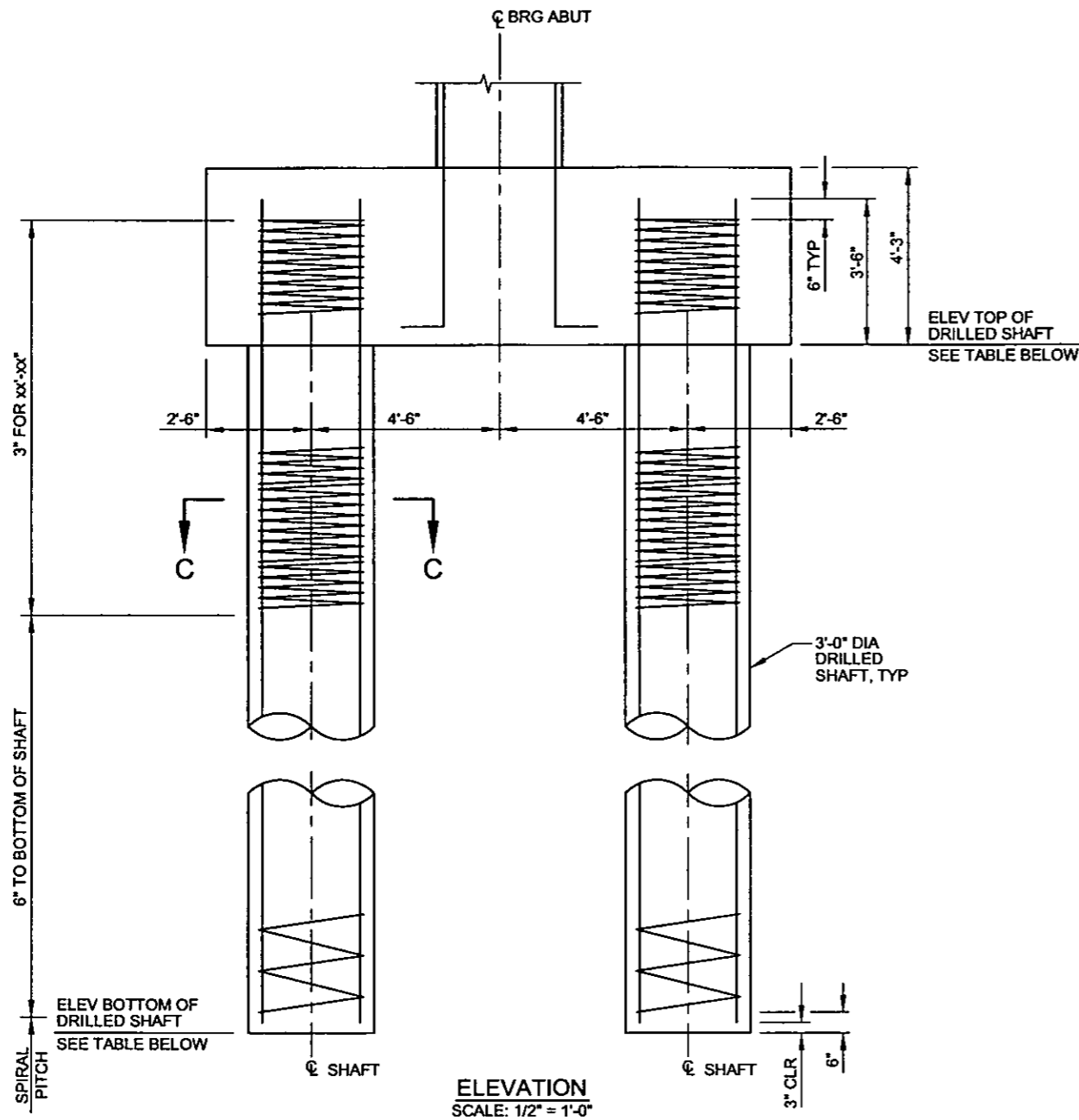
CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
CACTUS AVENUE / I-15 INTERCHANGE
ABUTMENT SIDEWALL AND WINGWALL DETAILS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION



PROJECT No: CB1014 DRAWN BY: SSM
 DESIGNED BY: RSG CHECKED BY: BMS
 APPROVED BY: KHS
THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 *LAS VEGAS, NEVADA *89119
 PHONE (702) 736-0932 *FAX (702) 736-0704

SCALE AS SHOWN	SHEET No
HORIZ:	B-108
VERT:	
FIELD BOOK NONE	
WORK ORDER 2008-	



NOTE: SEE PROJECT SPECIFICATIONS FOR CSL TESTING REQUIREMENTS.

DRILLED SHAFT DATA					
ABUTMENT NUMBER	NUMBER OF DRILLED SHAFTS	ELEVATION BOTTOM OF DRILLED SHAFT	ELEVATION TOP OF DRILLED SHAFT	VERTICAL BARS PER SHAFT	SPIRAL LENGTH PER SHAFT (FT)
1	30	xxx	2283.46	xxx	xx
2	30	xxx	2282.98	xxx	xx

NOTE: SPIRAL LENGTH INCLUDES 1/2 TURNS AT EACH END

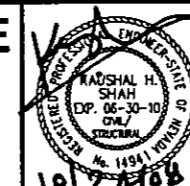
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 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
CACTUS AVENUE / I-15 INTERCHANGE
ABUTMENT DRILLED SHAFT DETAILS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

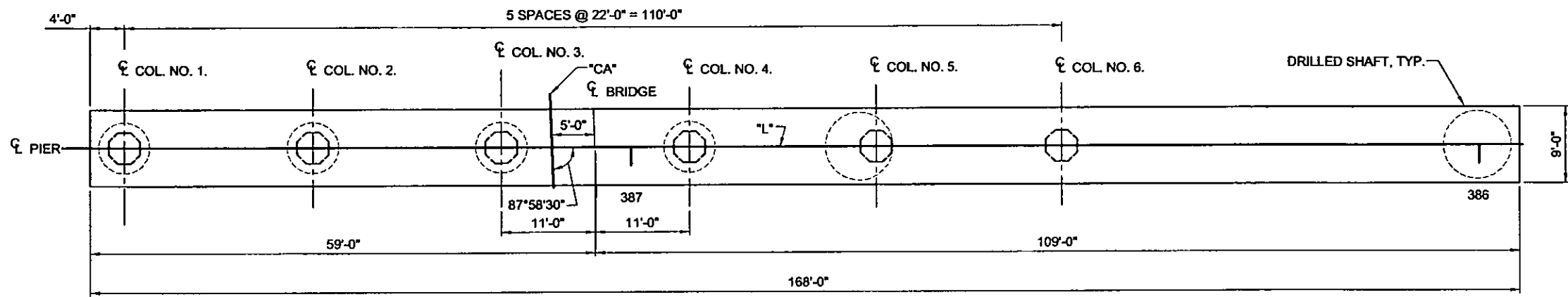
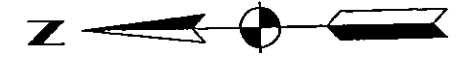
PRELIMINARY
 70% SUBMITTAL
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 NOT FOR CONSTRUCTION



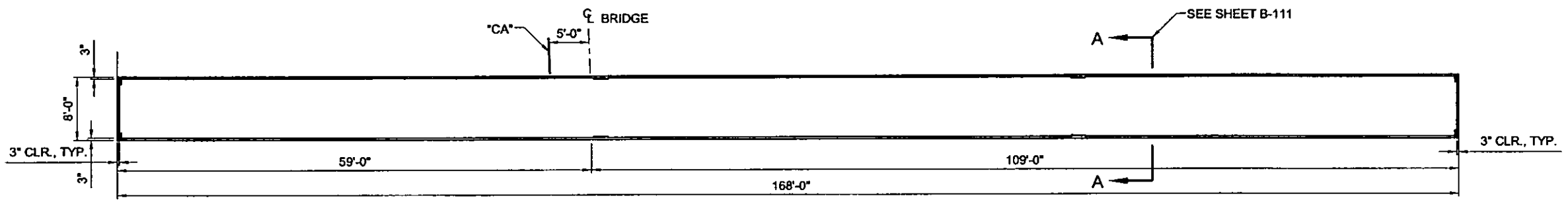
PROJECT No: CB1014 DRAWN BY: SSM
 DESIGNED BY: RSG CHECKED BY: BMS
 APPROVED BY: KHS

THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 *LAS VEGAS, NEVADA *89119
 PHONE (702) 736-6032 *FAX (702) 736-0704

SCALE AS SHOWN		SHEET No
HORIZ:		B-109
VERT:		
FIELD BOOK	NONE	
WORK ORDER	2008-	



TRANSFER BEAM PLAN
SCALE: 1/8" = 1'-0"



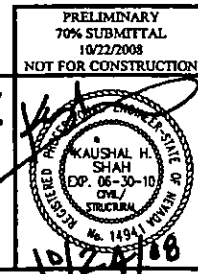
TRANSFER BEAM ELEVATION
SCALE: 1/8" = 1'-0"

PLOT DATE: Friday, October 2, 2008 2:25:06 PM
 FILE NAME: P:\COP\CB1014-CACTUS\PLANS\PHASE 2\STRUCTURES\CB1014-B-110.DWG
 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
CACTUS AVENUE / I-15 INTERCHANGE
PIER TRANSFER BEAM DETAILS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

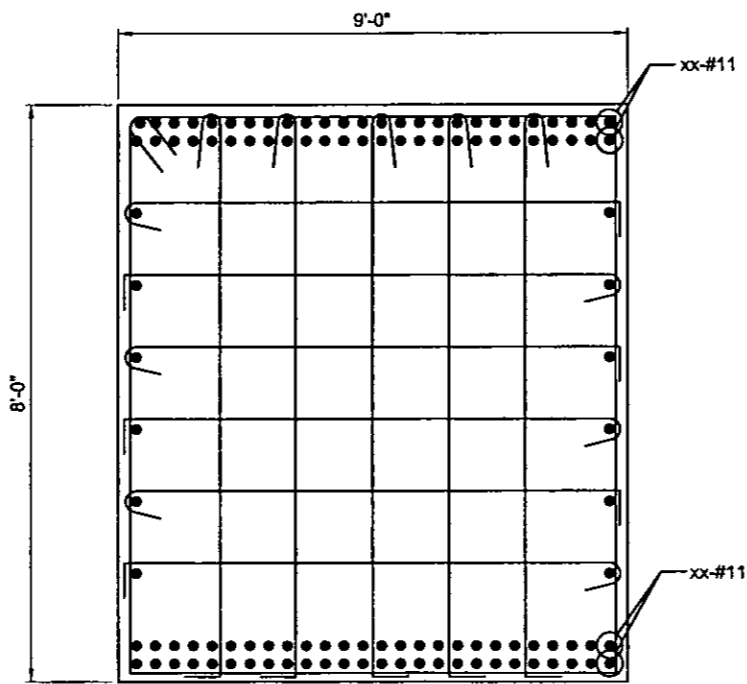


PROJECT No: CB1014 DRAWN BY: SSM
 DESIGNED BY: RSG CHECKED BY: BMS
 APPROVED BY: KHS
THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 *LAS VEGAS, NEVADA *89119
 PHONE (702) 736-8832 *FAX (702) 736-0704

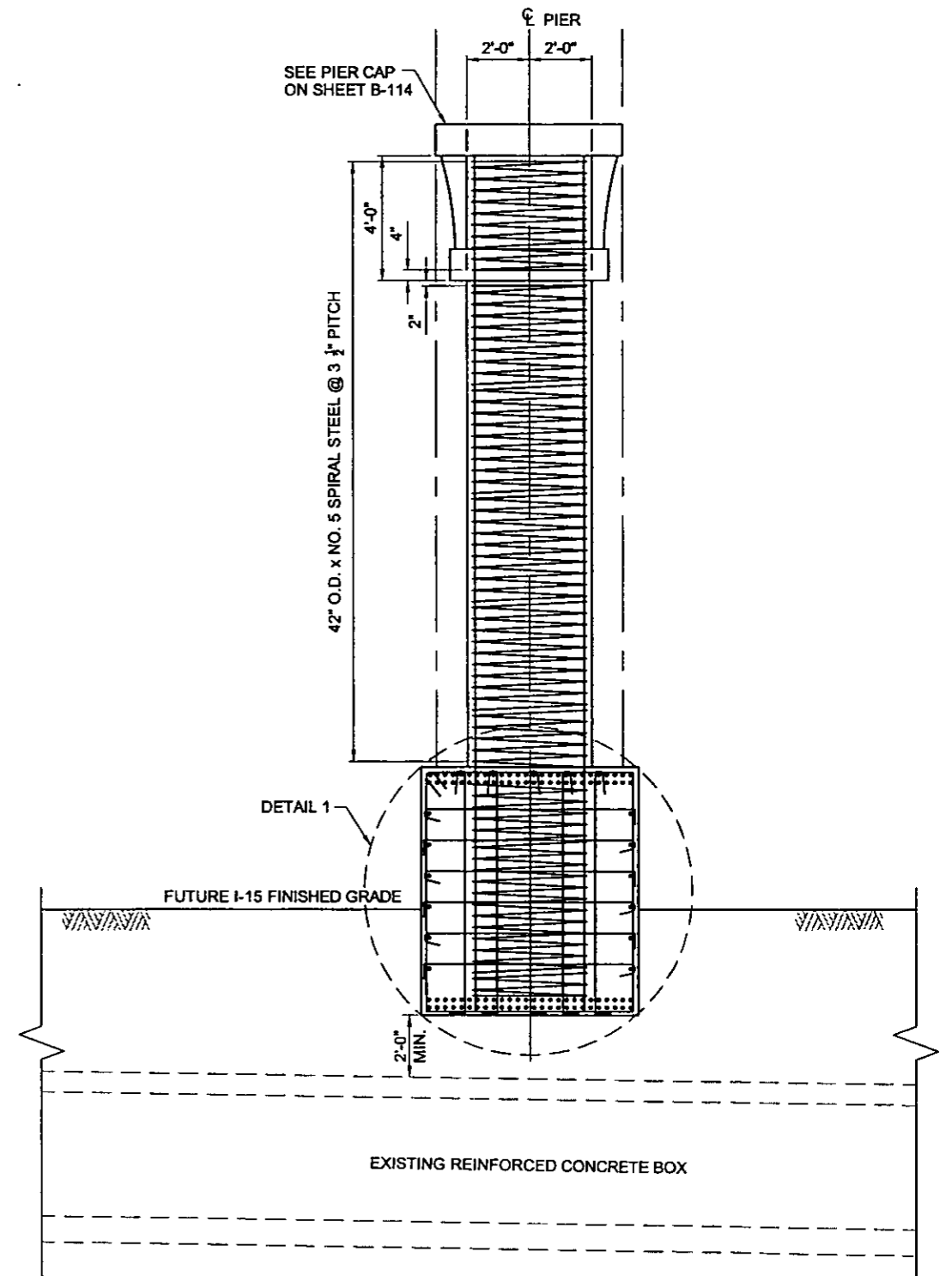
SCALE: AS SHOWN
 HORIZ: VERT:
 FIELD BOOK: NONE
 WORK ORDER: 2008-

SHEET No
B-110





DETAIL 1
SCALE: 3/4" = 1'-0"



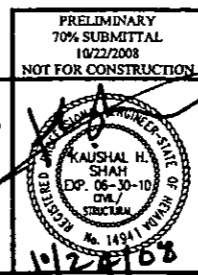
SECTION A-A
SCALE: 3/8" = 1'-0"

PLOT DATE: Friday, October 17, 2008 2:28:47 PM
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 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



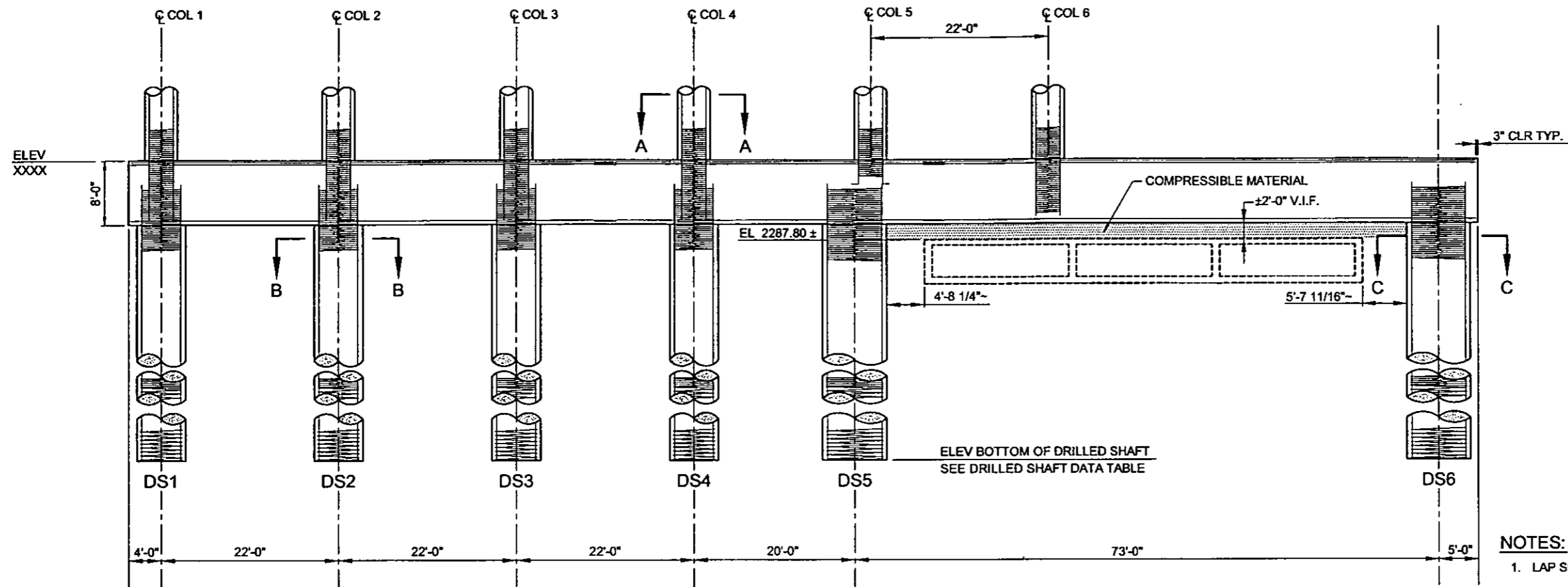
CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
CACTUS AVENUE / I-15 INTERCHANGE
PIER TRANSFER BEAM DETAILS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: CB1014 DRAWN BY: SSM
 DESIGNED BY: RSG CHECKED BY: RMS
 APPROVED BY: RKS
THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 *LAS VEGAS, NEVADA *89119
 PHONE (702) 736-8032 *FAX (702) 736-0704

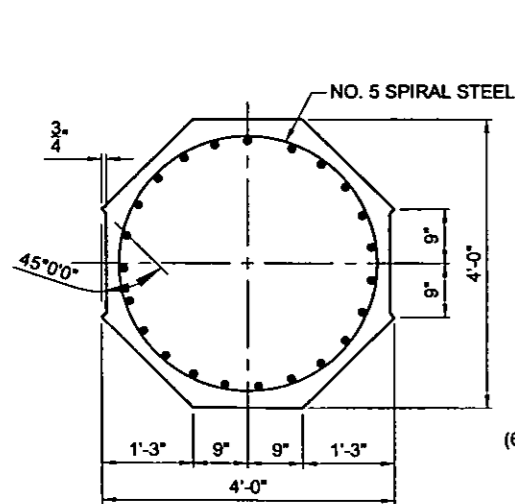
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HORIZ:	B-111
VERT:	
FIELD BOOK NONE	
WORK ORDER 2008	

CACTUS AVENUE / I-15 INTERCHANGE

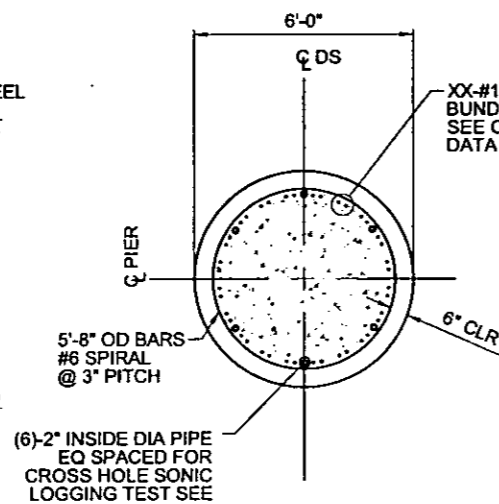


TYPICAL SECTION
SCALE: 1/8" = 1'-0"

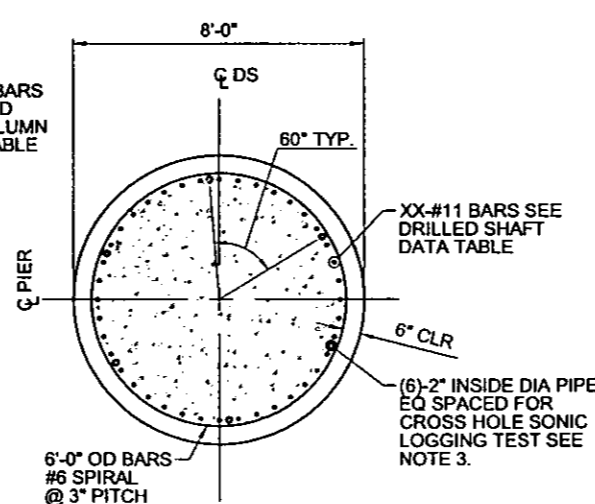
- NOTES:**
- LAP SPLICES IN LONGITUDINAL REINFORCEMENTS NOT ALLOWED
 - LAPPED SPLICES IN SPIRAL REINFORCEMENT SHALL BE LAPPED 60 BAR DIAMETERS MINIMUM. ALL SPIRAL REINFORCEMENTS AT SPLICES AND AT THEIR ENDS SHALL BE TERMINATED BY A 135° HOOK WITH A 6" TAIL HOOKED AROUND A LONGITUDINAL BAR. SPIRAL LENGTHS SHOWN INCLUDE 1 1/2 TURNS AT EACH END AND DOES NOT INCLUDE ADDITIONAL LENGTH FOR SPLICES. NO ADDITIONAL PAYMENT FOR SPLICES.
 - SEE PROJECT SPECIFICATIONS FOR CSL TESTING REQUIREMENTS.



SECTION A-A
SCALE: 3/4" = 1'-0"



SECTION B-B
(DS1, DS2, DS3 & DS4)
SCALE: 1/2" = 1'-0"



SECTION C-C
(DS5 & DS6)
SCALE: 1/2" = 1'-0"

COLUMN DATA			
COLUMN NUMBER	ELEV TOP OF COLUMN	VERTICAL BARS	SPIRAL LENGTH* (FT)
COL 1	XX	XX	XX
COL 2	XX	XX	XX
COL 3	XX	XX	XX
COL 4	XX	XX	XX
COL 5	XX	XX	XX
COL 6	XX	XX	XX

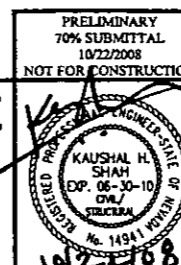
DRILLED SHAFT DATA				
ELEV. BOTTOM OF DRILLED SHAFT	VERTICAL BARS	SPIRAL LENGTH	DRILLED SHAFT NUMBER	DIAMETER
—	XX	XX	DS1	6'-0"
—	XX	XX	DS2	6'-0"
—	XX	XX	DS3	6'-0"
—	XX	XX	DS4	6'-0"
—	XX	XX	DS5	8'-0"
—	XX	XX	DS6	8'-0"

PLOT DATE: Friday, October 24, 2008 2:27:18 PM
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 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED

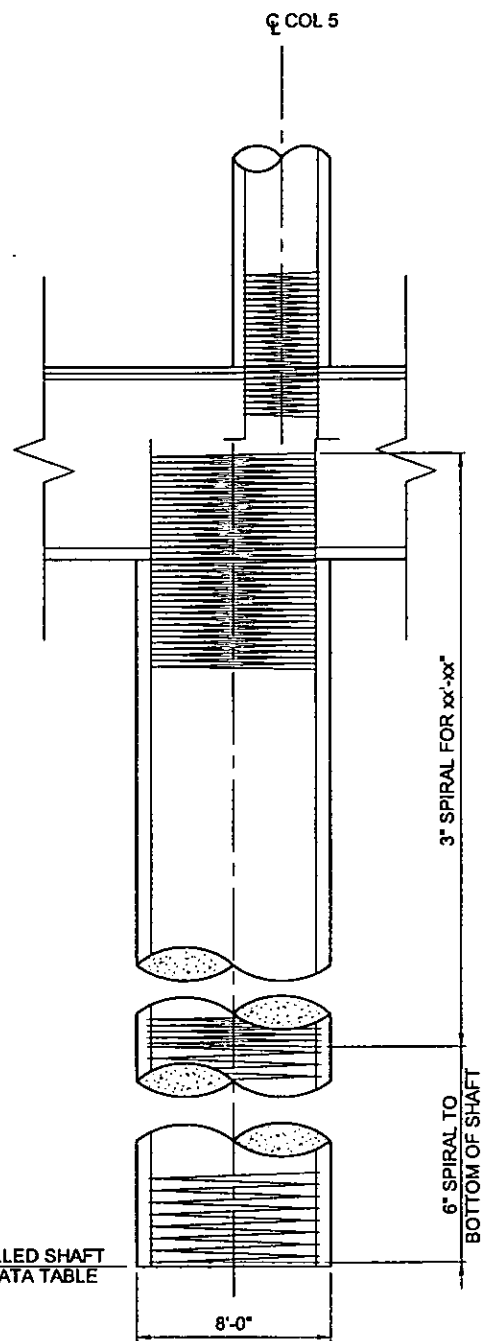


CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
CACTUS AVENUE / I-15 INTERCHANGE
PIER COLUMN AND DRILLED SHAFT DETAILS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

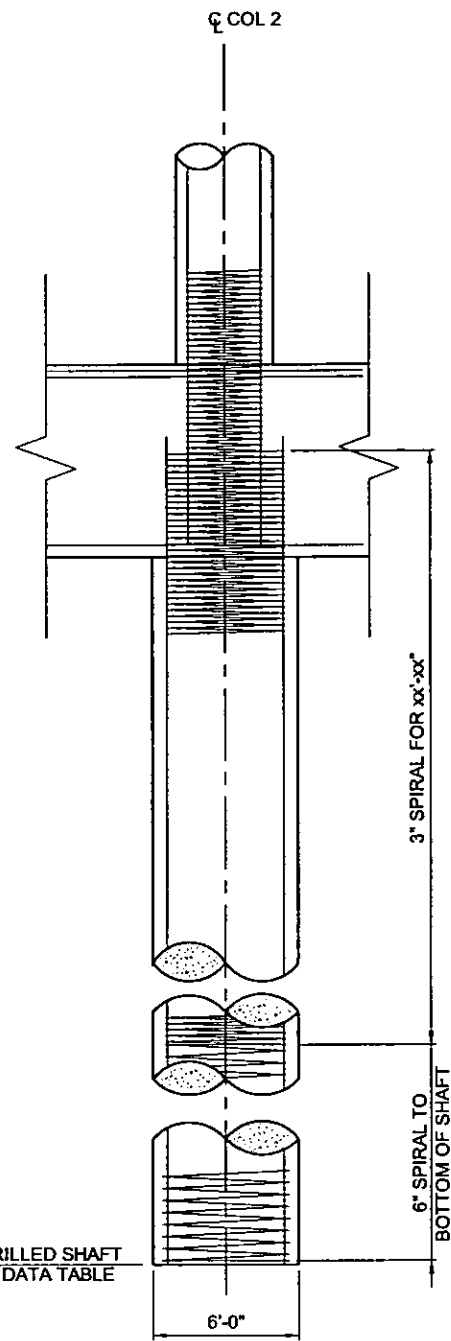


PRELIMINARY 70% SUBMITTAL 10/22/2008 NOT FOR CONSTRUCTION
 PROJECT No: CB1014 DRAWN BY: SSM
 DESIGNED BY: RSG CHECKED BY: RMS
 APPROVED BY: KHS
 THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 LAS VEGAS, NEVADA 89119
 PHONE (702) 736-0632 FAX (702) 736-0704

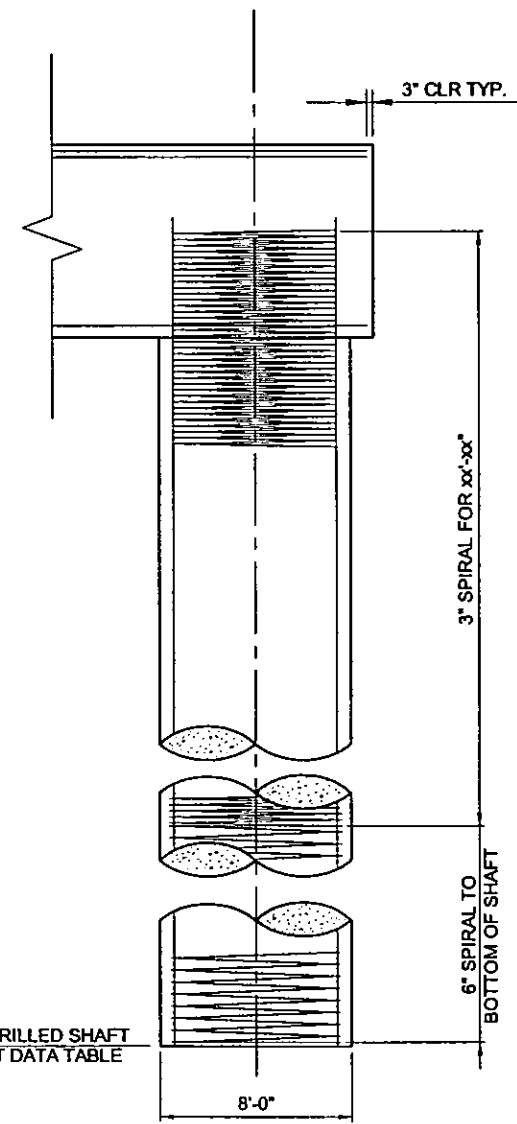
SCALE AS SHOWN	SHEET No
HORIZ:	B-112
VERT:	
FIELD BOOK NONE	
WORK ORDER 2008-	



DS5
ELEVATION
SCALE: 1/4" = 1'-0"



DS2
ELEVATION
SCALE: 1/4" = 1'-0"



DS6
ELEVATION
SCALE: 1/4" = 1'-0"

NOTE:
SEE DRILLED SHAFT DATA TABLE ON SHEET B-112 FOR REINFORCEMENT.

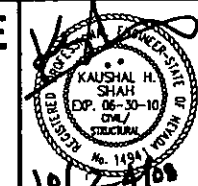
PLOT DATE: Friday, October 27, 2006 2:27:38 PM
 FILE NAME: P:\C\PROJECTS\104-CACTUS\PLANS\PHASE 2\STRUCTURES\CB114-B-113.DWG
 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
CACTUS AVENUE / I-15 INTERCHANGE
PIER COLUMN AND DRILLED SHAFT DETAILS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

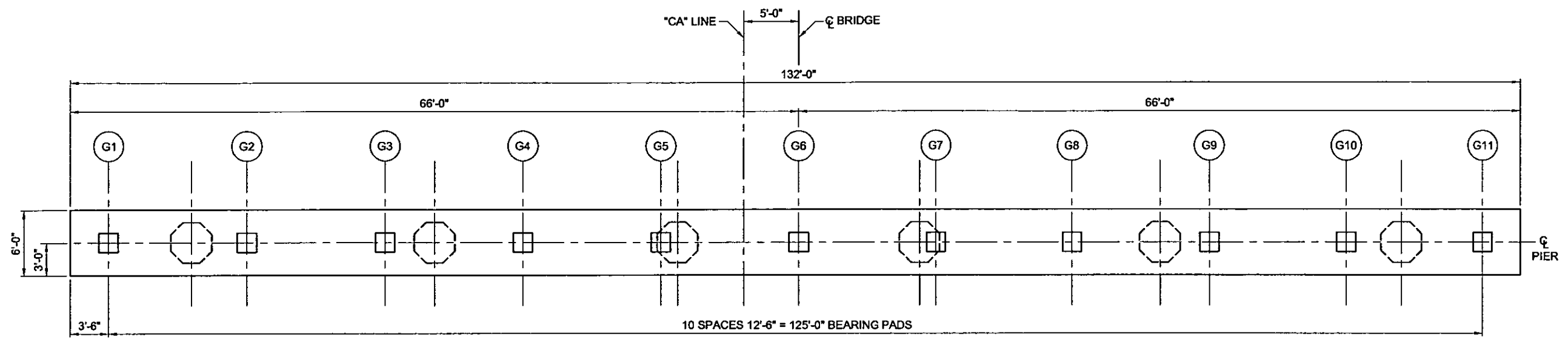


PROJECT No: CB1014 DRAWN BY: SSM
 DESIGNED BY: BSG CHECKED BY: BMS
 APPROVED BY: KHS
THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 LAS VEGAS, NEVADA 89119
 PHONE (702) 736-6032 FAX (702) 736-0704

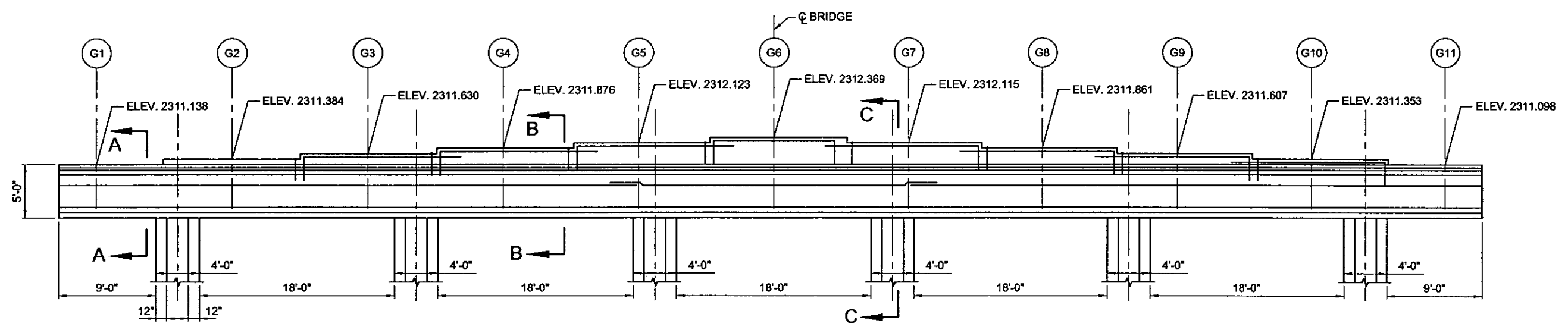
SCALE AS SHOWN
 HORIZ:
 VERT:
 FIELD BOOK NONE
 WORK ORDER 2008

SHEET No
B-113





PIER CAP PLAN
SCALE: 3/16" = 1'-0"

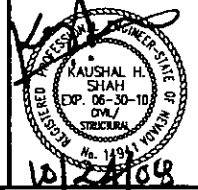


PIER CAP ELEVATION
SCALE: 3/16" = 1'-0"

NOTE:
SEE SHEET B-115 FOR DETAILS.

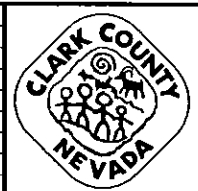


PRELIMINARY
70% SUBMITTAL
10/22/2008
NOT FOR CONSTRUCTION



PROJECT No: CB1014 DRAWN BY: SSM
DESIGNED BY: RSG CHECKED BY: BMS
APPROVED BY: KHS
THE Louis Berger Group, INC.
500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119
PHONE (702) 736-6632 • FAX (702) 736-0704

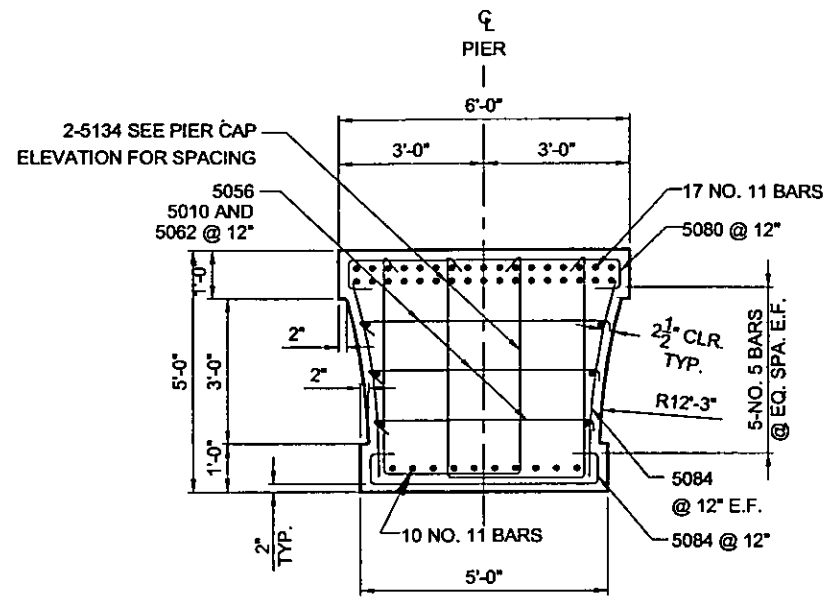
SCALE AS SHOWN	SHEET No
HORIZ:	B-114
VERT:	
FIELD BOOK NONE	
WORK ORDER 2008-	



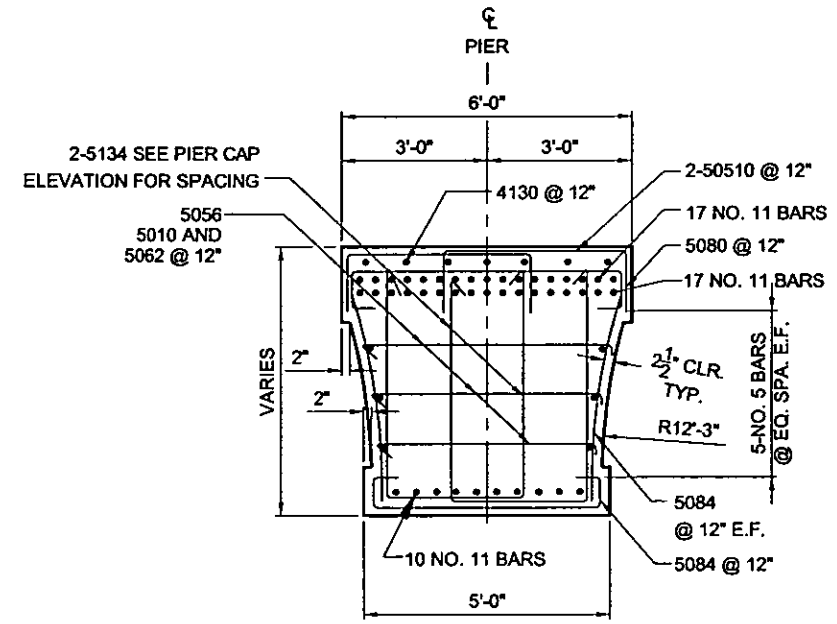
CACTUS AVENUE / I-15 INTERCHANGE
DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
CACTUS AVENUE / I-15 INTERCHANGE
PIER CAP DETAILS
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PLOT DATE: Friday, October 2, 2008 2:27:59 PM
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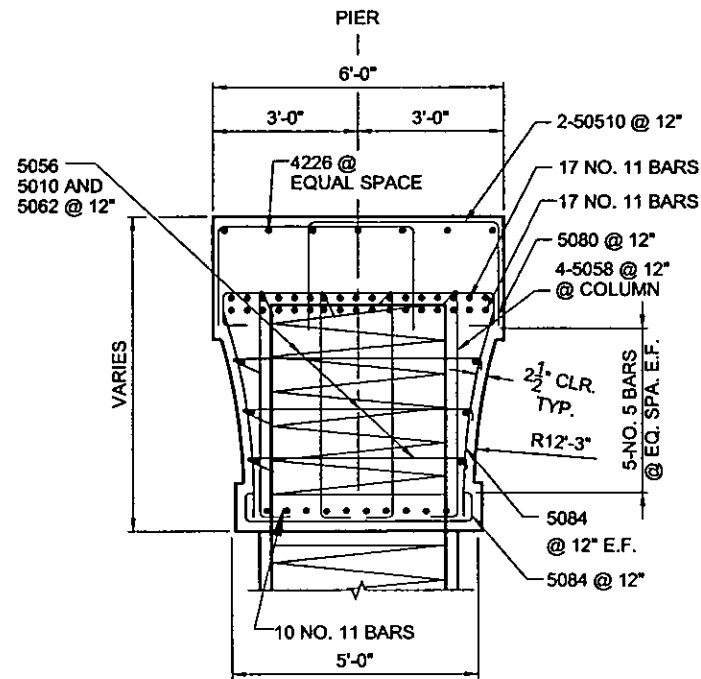
REV. NO.	DATE	DESCRIPTION	APPROVED



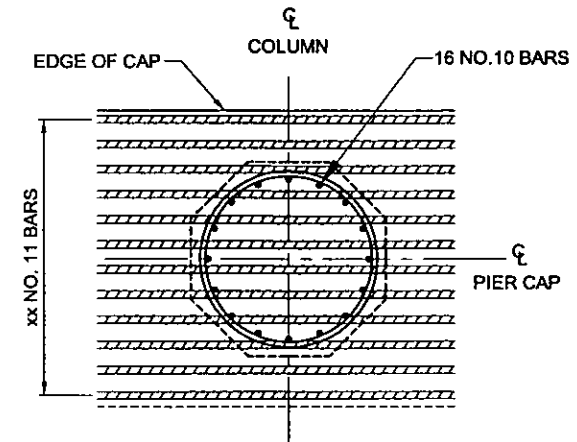
SECTION "A-A"
(SECTION @ OVERHANG)
SCALE: 3/8" = 1'-0"



SECTION "B-B"
(SECTION @ MIDSPAN)
SCALE: 3/8" = 1'-0"



SECTION "C-C"
(SECTION @ COLUMN)
SCALE: 3/8" = 1'-0"



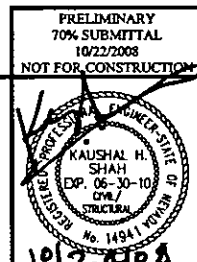
PIER CAP
BOTTOM REINFORCEMENT
NTS

PLOT DATE: Friday, October 2, 2008 2:34:18 PM
 FILE NAME: P:\CADD\1814-CACTUS\PLANS\PHASE 2\STRUCTURES\CB1148-112A.DWG
 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
CACTUS AVENUE / I-15 INTERCHANGE
PIER CAP DETAILS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

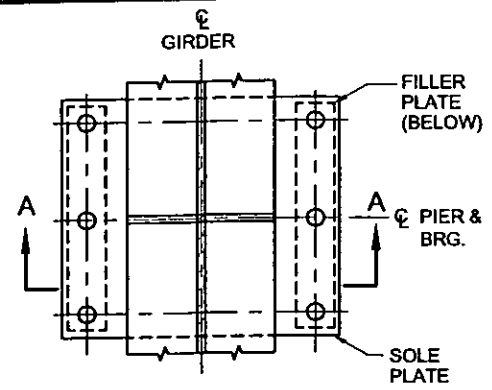


PRELIMINARY
 70% SUBMITTAL
 10/22/2008
 NOT FOR CONSTRUCTION

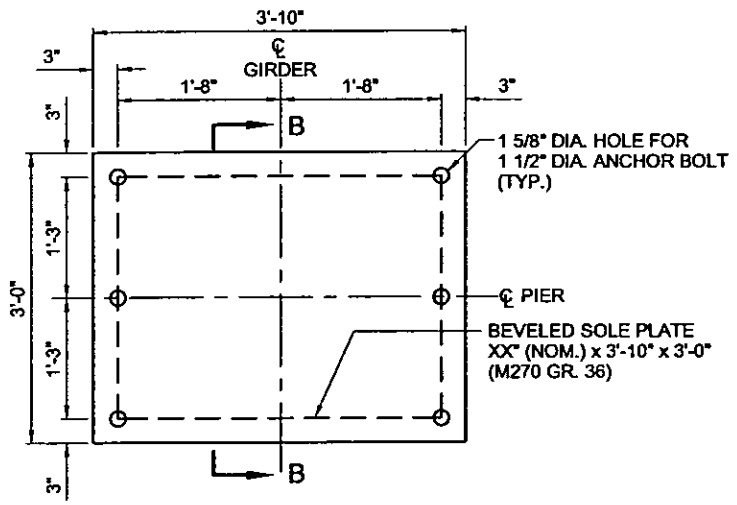
PROJECT No: CB1014 DRAWN BY: SSM
 DESIGNED BY: RSG CHECKED BY: BMS
 APPROVED BY: KHS

THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119
 PHONE: (702) 736-6532 • FAX: (702) 736-0704

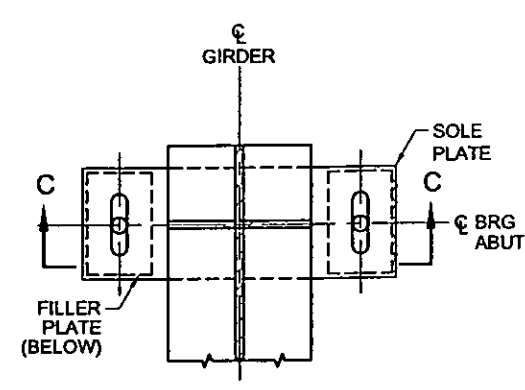
SCALE AS SHOWN	SHEET No
HORIZ:	B-115
VERT:	
FIELD BOOK NONE	
WORK ORDER 2008	



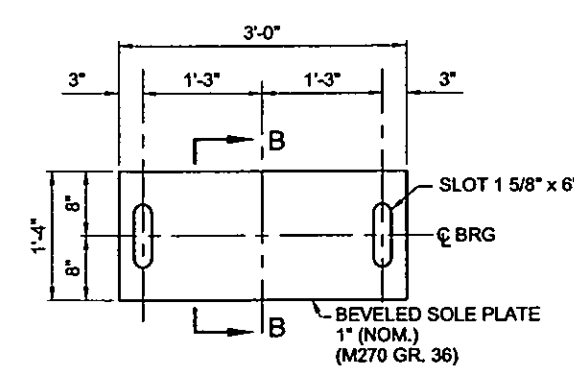
FIXED BEARING AT PIER
SCALE: 1" = 1'-0"



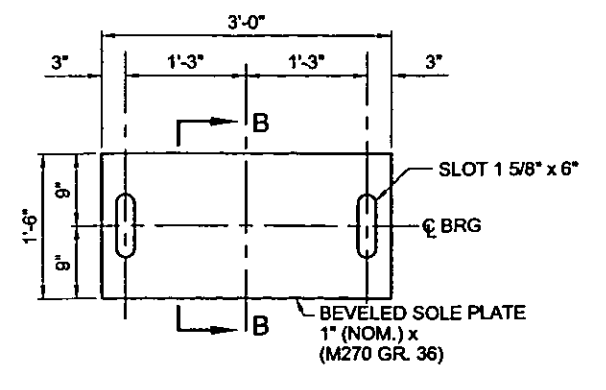
FIXED BEARING SOLE PLATE
SCALE: 1" = 1'-0"



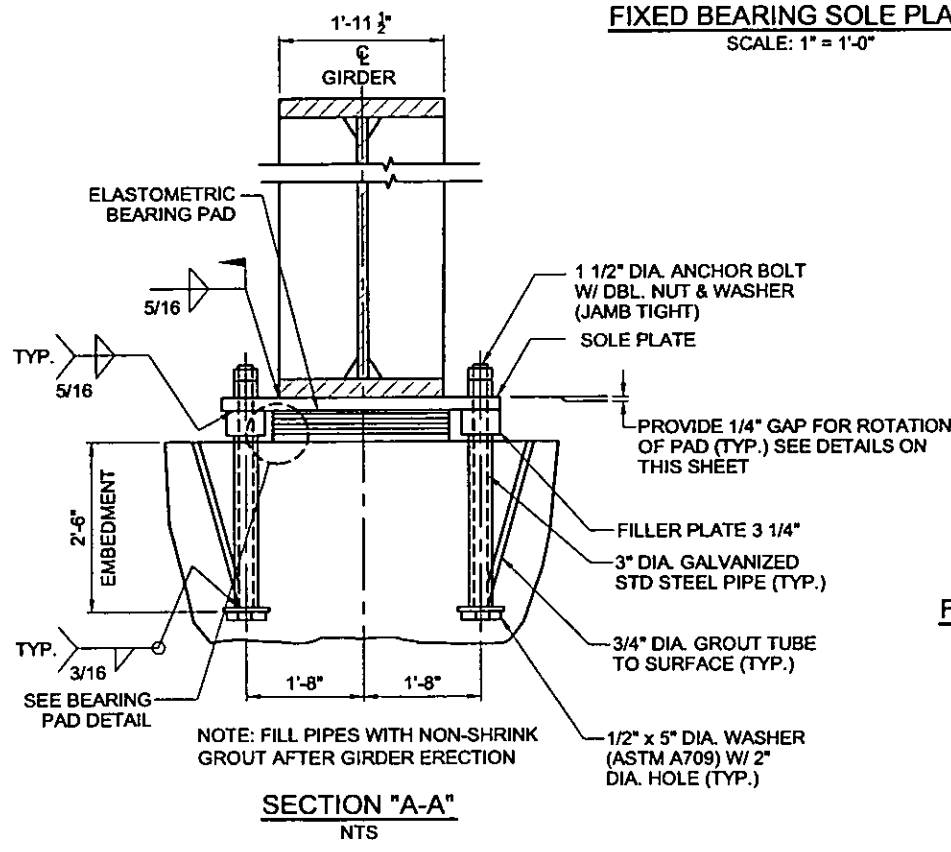
EXPANSION BEARING AT ABUTMENT
SCALE: 1" = 1'-0"



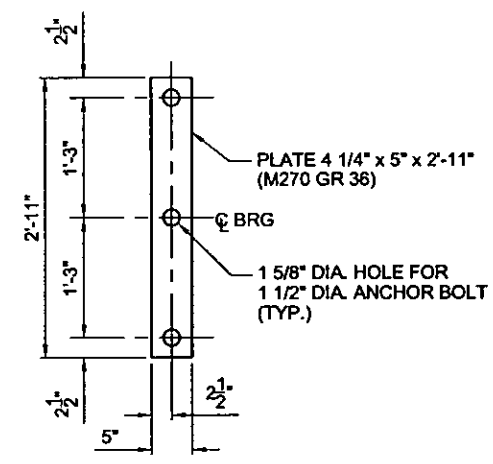
EXPANSION BEARING SOLE PLATE AT ABUTMENT 1
SCALE: 1" = 1'-0"



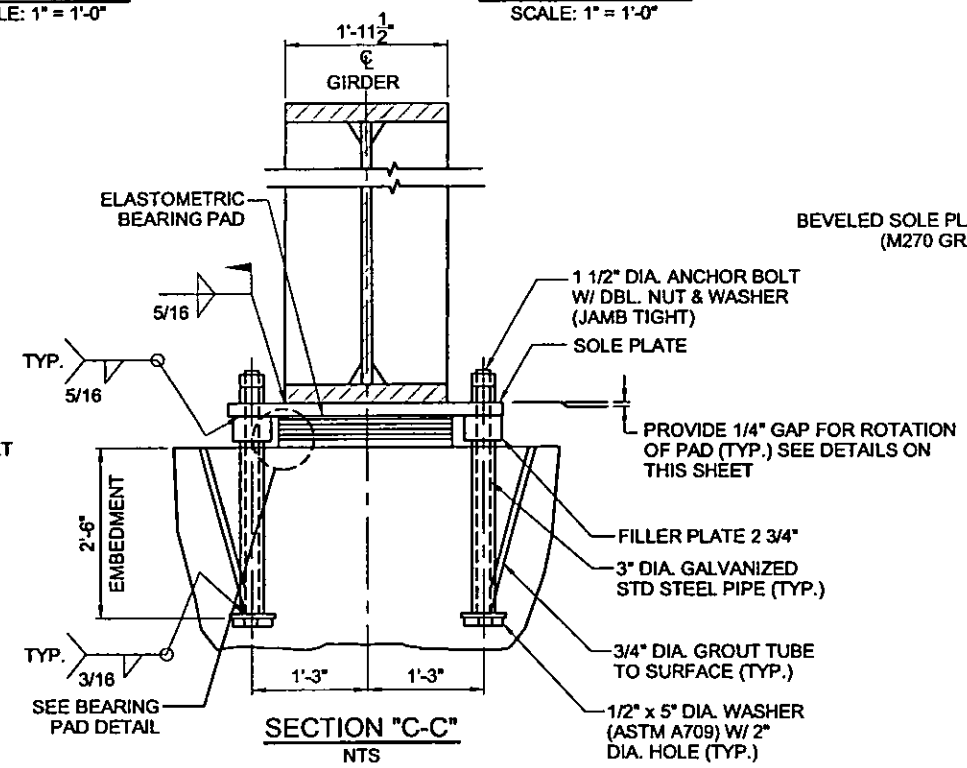
EXPANSION BEARING SOLE PLATE AT ABUTMENT 2
SCALE: 1" = 1'-0"



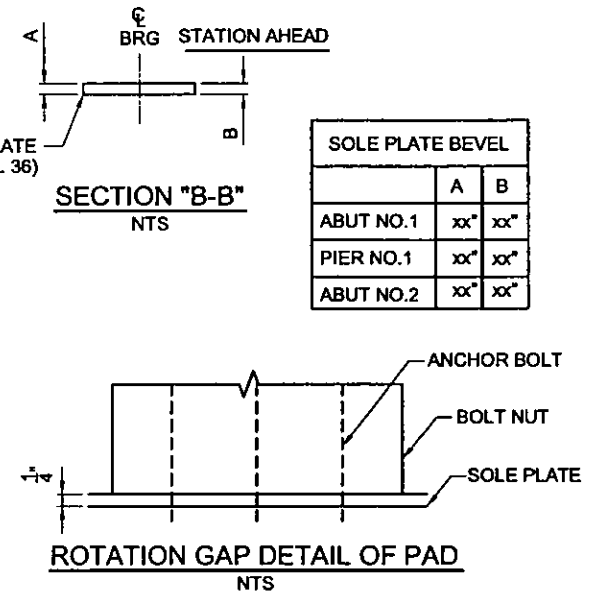
SECTION "A-A"
NTS



FIXED BEARING FILLER PLATE
SCALE: 1" = 1'-0"



SECTION "C-C"
NTS

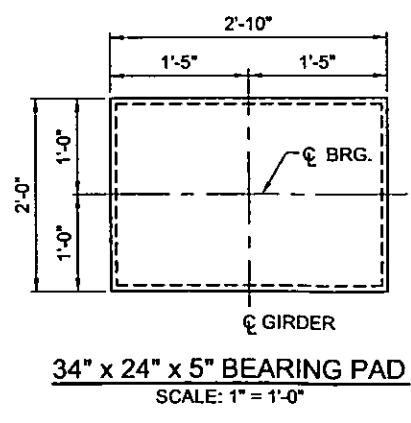


ROTATION GAP DETAIL OF PAD
NTS

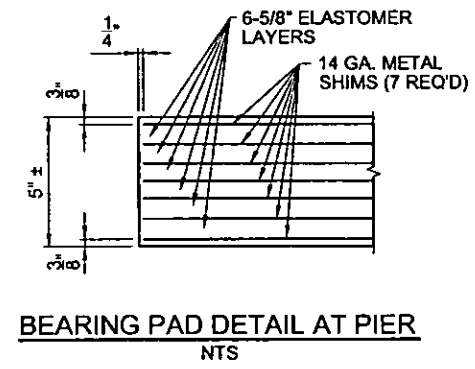
SOLE PLATE BEVEL	
	A B
ABUT NO.1	xx" xx"
PIER NO.1	xx" xx"
ABUT NO.2	xx" xx"

NOTES:

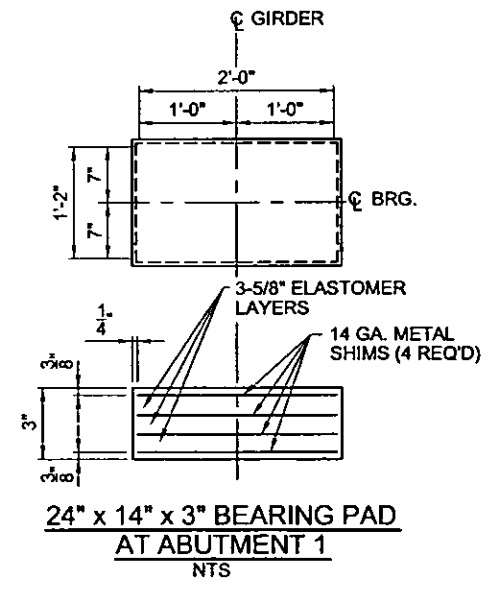
- ELASTOMER SHALL BE 50 DUROMETER HARDNESS
- BEARING PADS SHALL UNDERGO LEVEL II, GRADE 3 TESTING
- POSITIONING OF THE ANCHOR BOLT ASSEMBLY IS CRITICAL. THE ANCHOR BOLTS MUST BE POSITIONED ACCURATELY AND THIS POSITION MUST BE MAINTAINED THROUGHOUT THE POURING OF THE PIER CAP AND ABUTMENTS.
- ALL ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 GR 55. ALL ANCHOR BOLTS AND NUTS SHALL BE GALVANIZED PER ASTM 153.
- ALL ANCHOR BOLTS THREADS SHALL BE ABOVE THE BOTTOM OF FILLER PLATE.



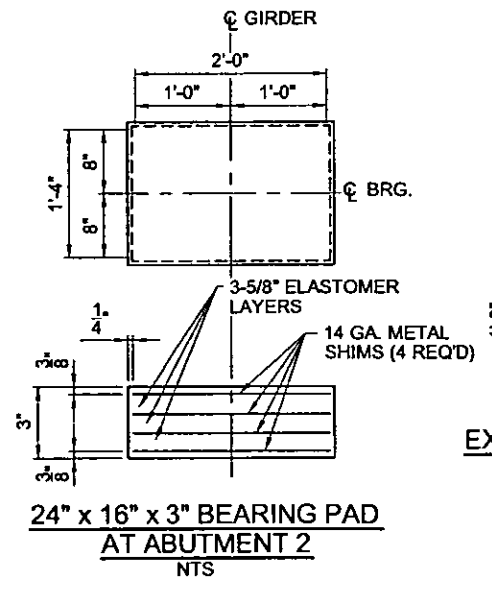
34" x 24" x 5" BEARING PAD
SCALE: 1" = 1'-0"



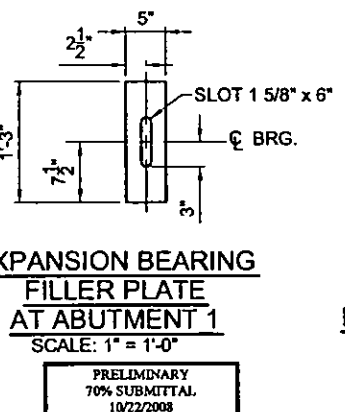
BEARING PAD DETAIL AT PIER
NTS



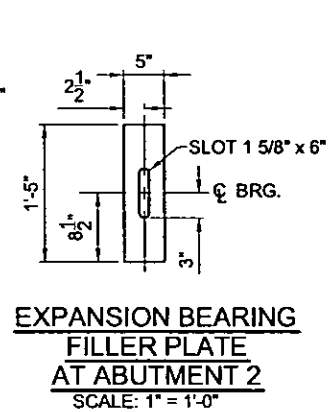
24" x 14" x 3" BEARING PAD AT ABUTMENT 1
NTS



24" x 16" x 3" BEARING PAD AT ABUTMENT 2
NTS



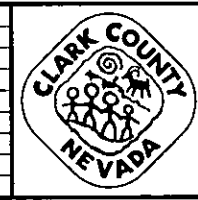
EXPANSION BEARING FILLER PLATE AT ABUTMENT 1
SCALE: 1" = 1'-0"



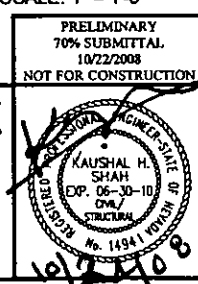
EXPANSION BEARING FILLER PLATE AT ABUTMENT 2
SCALE: 1" = 1'-0"

PLOT DATE: Friday, Oct 10, 2008 2:28:41 PM
 FILE NAME: P:\CWP\1014\CACTUS\PLANS\PHASE 2\STRUCTURES\CB116-113.DWG
 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



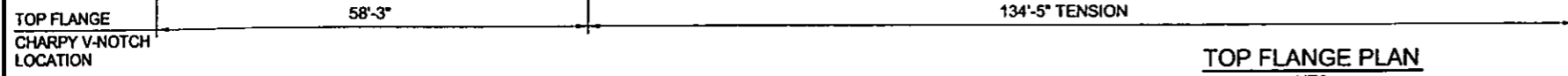
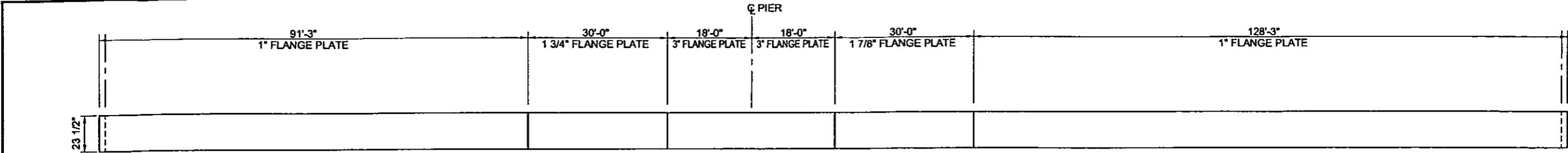
CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
CACTUS AVENUE / I-15 INTERCHANGE
ELASTOMETRIC BEARING PADS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



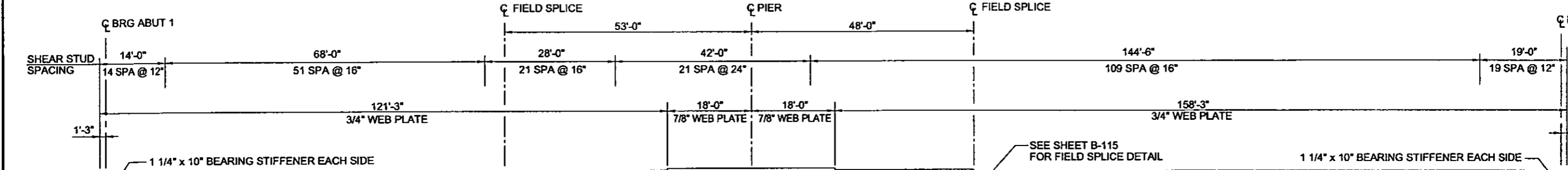
PROJECT No: CB1014 DRAWN BY: SSM
 DESIGNED BY: RSG CHECKED BY: BMS
 APPROVED BY: KHS
THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89118
 PHONE (702) 736-8632 • FAX (702) 736-0704

SCALE AS SHOWN	SHEET No
HORIZ:	B-116
VERT:	
FIELD BOOK NONE	
WORK ORDER 2008-	

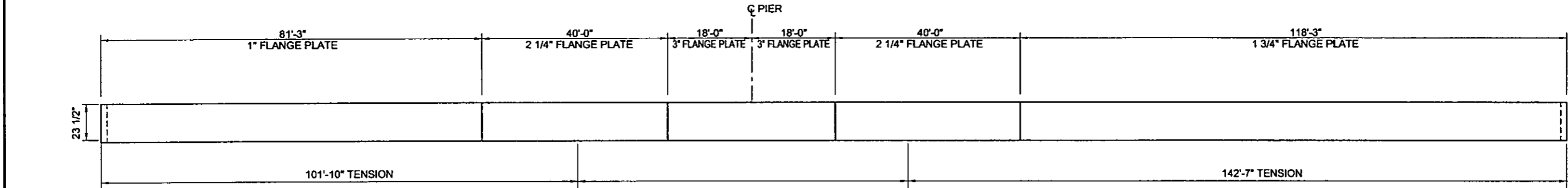
CLARK COUNTY INTERCHANGE



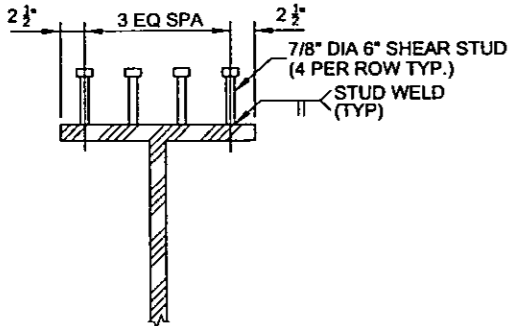
TOP FLANGE PLAN
NTS



GIRDER ELEVATION
NTS



BOTTOM FLANGE PLAN
NTS



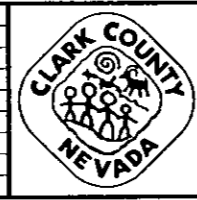
SHEAR STUD DETAIL
NTS

NOTES:

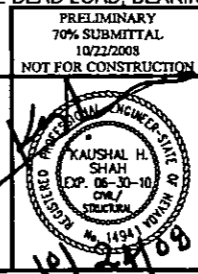
1. ALL GIRDER WEB FLANGE PLATES AND FIELD SPLICE PLATES SHALL BE AASHTO M270 GRADE 50 STEEL.
2. ALL WEB PLATES TENSION FLANGE PLATES AND FIELD SPLICE PLATES SHALL BE CONSIDERED MAIN LOAD CARRYING MEMBERS AND SHALL BE SUBJECT TO CHARPY IMPACT REQUIREMENTS FOR ZONE 2.
3. FOR CROSSFRAMES AND MISCELLANEOUS DETAILS SEE SHEETS B-117, B-118 & B-119.
4. THE DIMENSIONS SHOWN ARE MEASURED ALONG THE HORIZONTAL; THE FABRICATOR WILL BE REQUIRED TO ADJUST THE LENGTH OF GIRDERS AND CROSSFRAMES AS NECESSARY TO MEET ROADWAY PROFILE GRADE, ROADWAY CROWN AND THE PLAN DIMENSIONS.
5. THE LOCATIONS OF WELDED SHOP SPLICES IN FLANGES AND WEBS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION. GIRDER PLATES SHALL BE FURNISHED IN LENGTHS AS LONG AS PRACTICAL IN ORDER TO MINIMIZE THE NUMBER OF WELDED SPLICES.
6. IF FIELD SPLICES ARE USED, REDUCE THE SHEAR STUD SPACING IMMEDIATELY ADJACENT TO THE TOP FLANGE SPLICE PLATE SUCH THAT THE REQUIRED TOTAL NUMBER OF SHEAR STUDS IS PROVIDED AT EACH SIDE OF SPLICE.
7. REDUCE THE SHEAR STUD SPACING IMMEDIATELY ADJACENT TO THE EXPANSION JOINT SUPPORT ASSEMBLY AS REQUIRED SUCH THAT THE TOTAL NUMBER OF SHEAR STUDS IS MAINTAINED. SEE SHEET xxx FOR SUPPORT ASSEMBLY.
8. ALL CONNECTION AND STIFFENER PLATES SHALL BE PLACED SKEWED TO THE GIRDERS SUCH THAT THEY ARE PARALLEL TO THE C OF THE ABUTMENTS, PIERS, AND CROSS FRAMES.
9. SHEAR STUDS SHALL CONFORM TO THE REQUIREMENTS OF DIVISION II OF THE CURRENT AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES.
10. UNDER FULL DEAD LOAD, BEARING STIFFENERS ARE TO BE VERTICAL.

PLOT DATE: Friday, October 2, 2008 2:11:02 PM
FILE NAME: P:\CADD\1114-CACTUS\PLANS\PHASE 2\STRUCTURES\B-117-11.DWG
REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
CACTUS AVENUE / I-15 INTERCHANGE
GIRDER ELEVATION
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

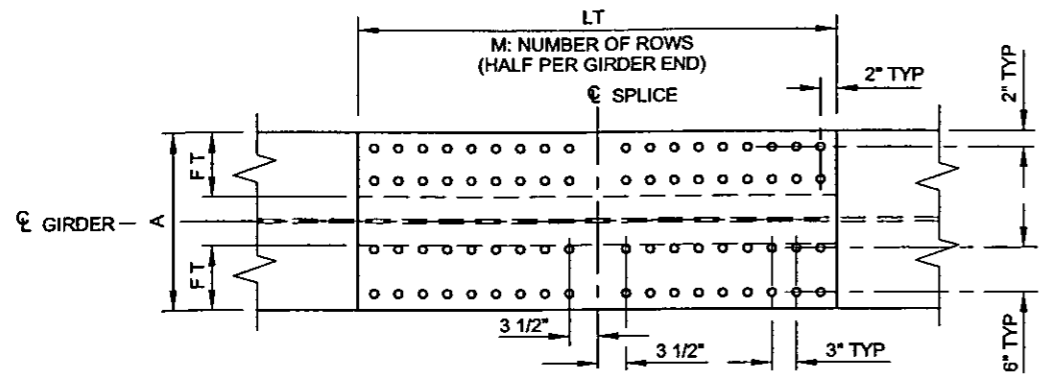


PROJECT No: CB1014 DRAWN BY: SSM
 DESIGNED BY: RSG CHECKED BY: BMS
 APPROVED BY: KHS

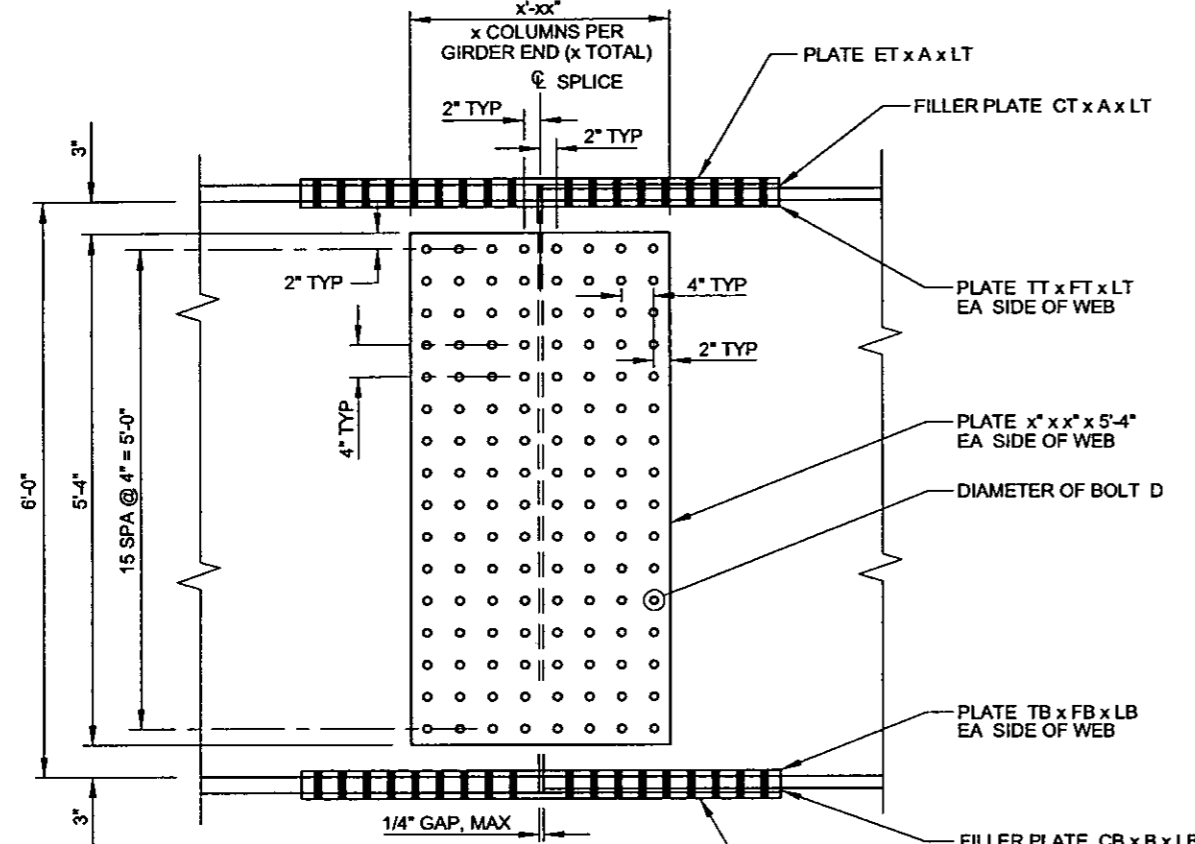
THE Louis Berger Group, Inc.
 500 AMIGO COURT, SUITE 100 *LAS VEGAS, NEVADA *89119
 PHONE (702) 736-0032 *FAX (702) 736-0704

SCALE AS SHOWN	SHEET No
HORIZ:	B-117
VERT:	
FIELD BOOK NONE	
WORK ORDER 2008	

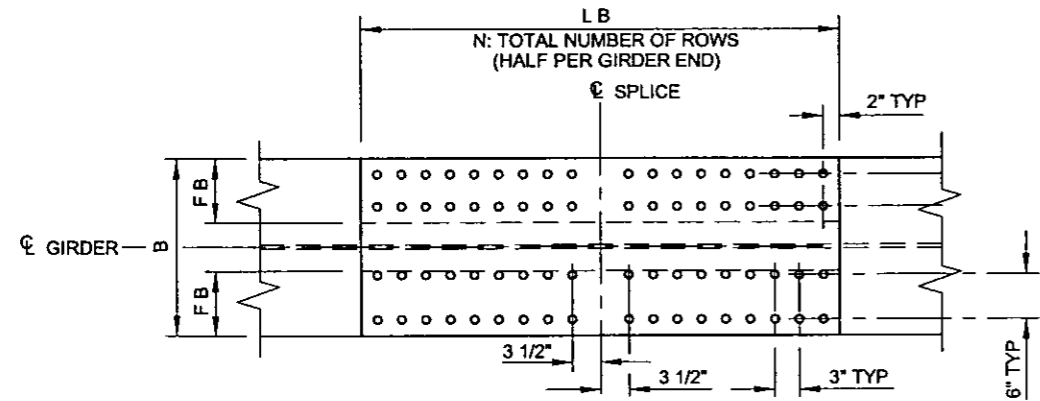




TOP FLANGE PLAN
SCALE: 1" = 1'-0"



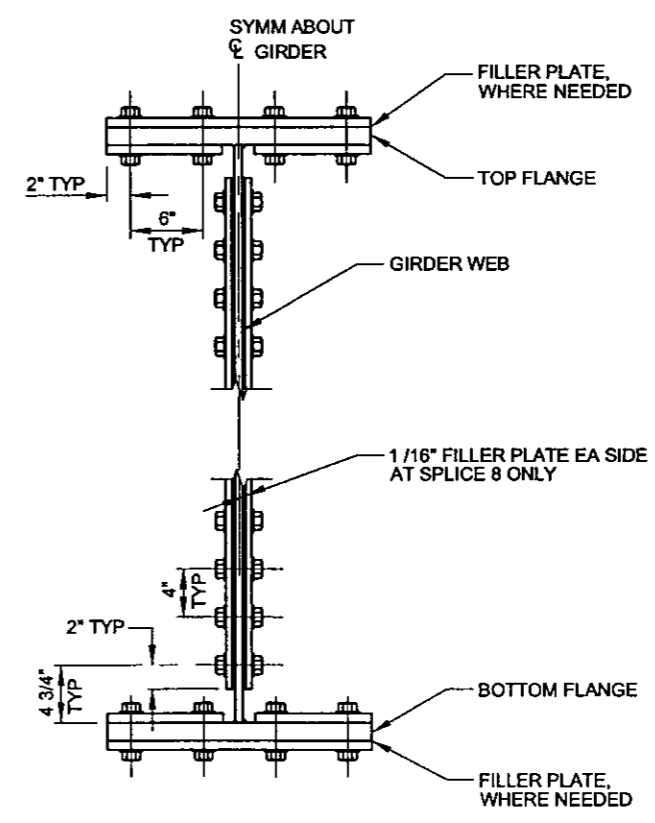
ELEVATION
SCALE: 1" = 1'-0"



BOTTOM FLANGE PLAN (REFLECTED)
SCALE: 1" = 1'-0"

SPLICE TABLE															
	A	B	CT	CB	D	ET	EB	FT	FB	LT	LB	TT	TB	M	N
SPLICE 1															
SPLICE 2															

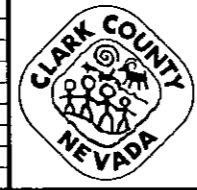
NOTE:
ALL BOLTS ARE x" DIA ASTM A-325.



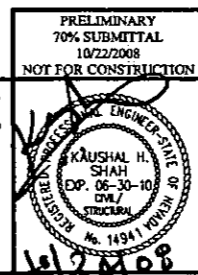
FIELD SPLICE TYPICAL SECTION
SCALE: 1/2" = 1'-0"

PLOT DATE: Friday, Dec 16, 2008 2:35:30 PM
 FILE NAME: P:\000\001914-CACTUS\PLANS\PHASE 2\STRUCTURES\CB1914-B-115.DWG
 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED

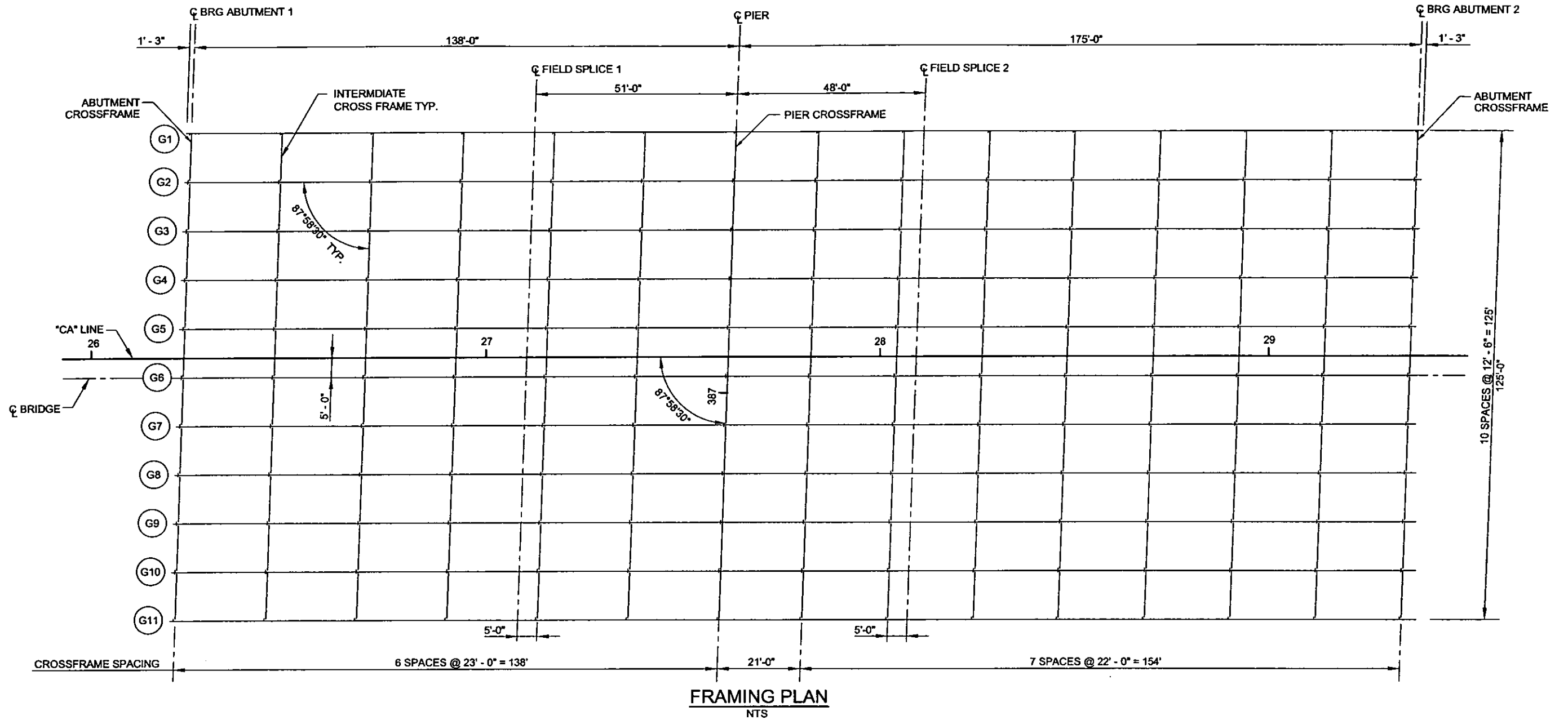


CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
CACTUS AVENUE / I-15 INTERCHANGE
GIRDER FIELD SPLICES
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: CB1014 DRAWN BY: SSM
 DESIGNED BY: RSG CHECKED BY: BMS
 APPROVED BY: KHS
THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 LAS VEGAS, NEVADA 89119
 PHONE (702) 736-6632 * FAX (702) 736-0704

SCALE AS SHOWN	SHEET No
HORIZ:	B-118
VERT:	
FIELD BOOK NONE	
WORK ORDER 2008-	



FRAMING PLAN
NTS

NOTES:

1. ALL PLAN DIMENSIONS ARE MEASURED HORIZONTALLY. THE CONTRACTOR SHALL ADJUST DIMENSIONS TO ACCOUNT FOR VERTICAL CURVATURE OF THE BRIDGE
2. ALL CROSS FRAMES ARE PLACED ON SKEW I.E., PARALLEL TO Q BEARING
3. SEE SHEET B-117 AND B-118 FOR CROSS FRAME AND STIFFENER DETAILS.
4. CROSS FRAMES (AT CLOSURE POUR AS SHOWN) SHALL NOT BE TIGHTENED UNTIL THE COMPLETION OF THE DECK CLOSURE POUR SHOWN ON SHEET B-123.

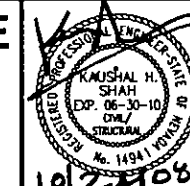
PLOT DATE: Friday, Oct 22, 2009 2:35:09 PM
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 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



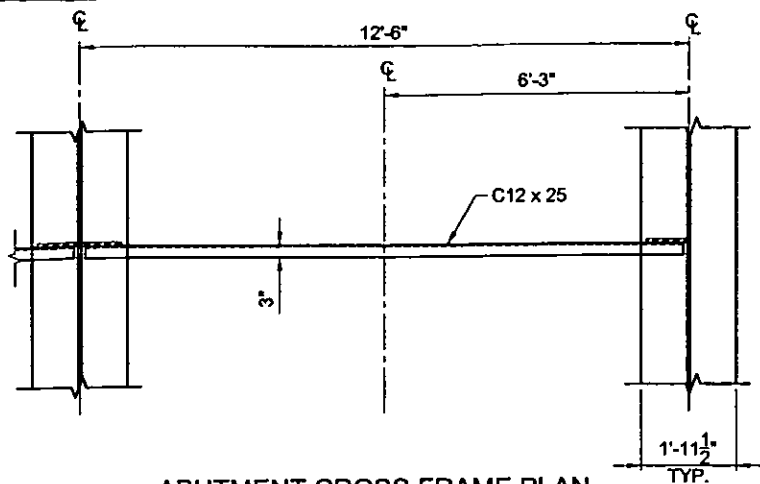
CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
CACTUS AVENUE / I-15 INTERCHANGE
FRAMING PLAN
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PRELIMINARY
 70% SUBMITTAL
 10/22/2009
 NOT FOR CONSTRUCTION

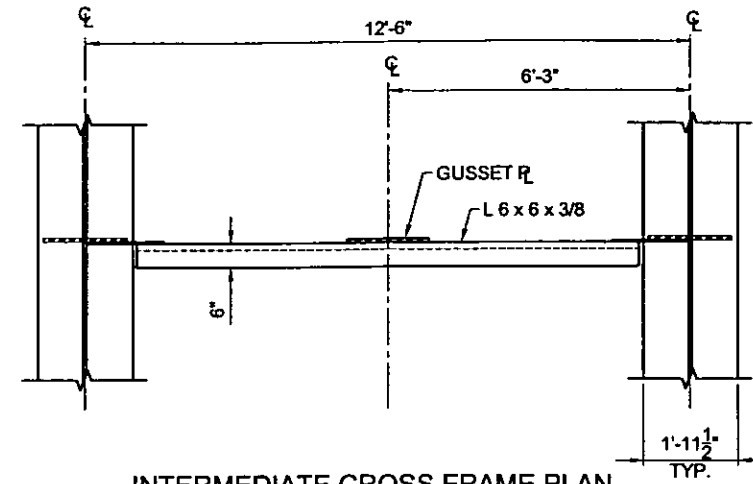


PROJECT No: CB1014 DRAWN BY: SSM
 DESIGNED BY: RSG CHECKED BY: BMS
 APPROVED BY: KHS
THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 LAS VEGAS, NEVADA 89110
 PHONE (702) 736-0632 *FAX (702) 736-0704

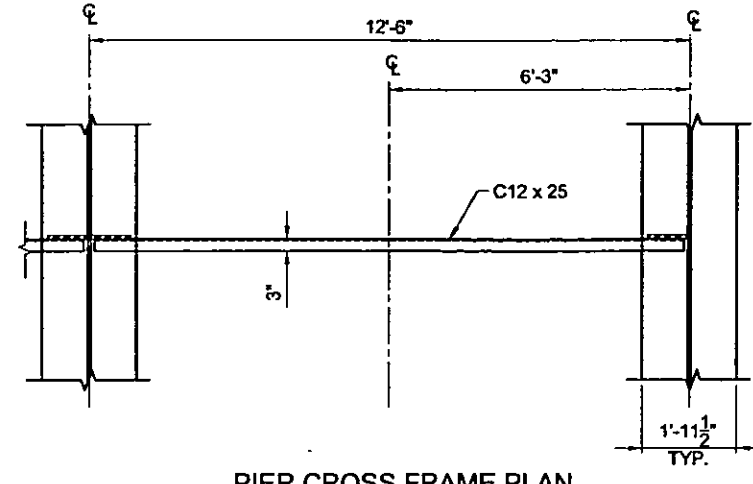
SCALE AS SHOWN
 HORIZ:
 VERT:
 FIELD BOOK NONE
 WORK ORDER 2008-
 SHEET No
B-119



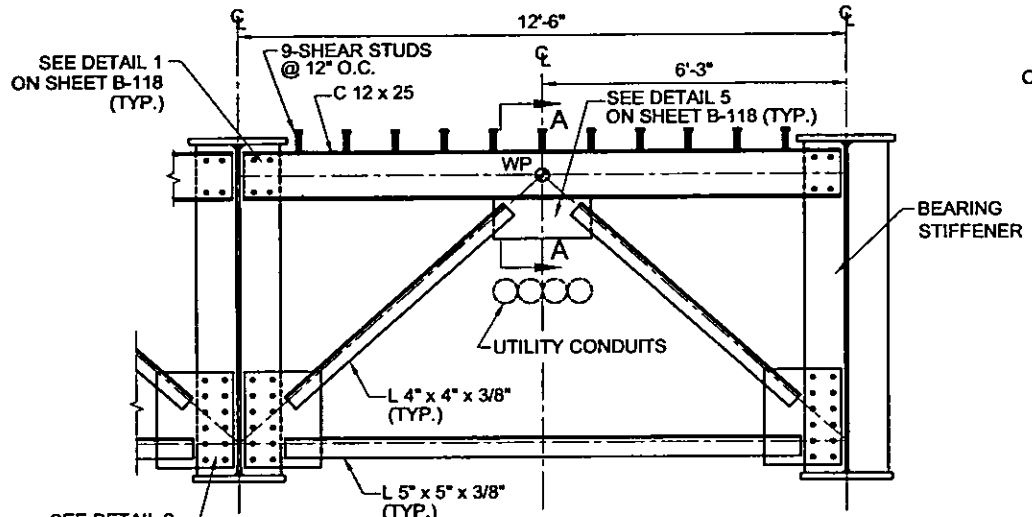
ABUTMENT CROSS FRAME PLAN
SCALE: 1/2" = 1'-0"



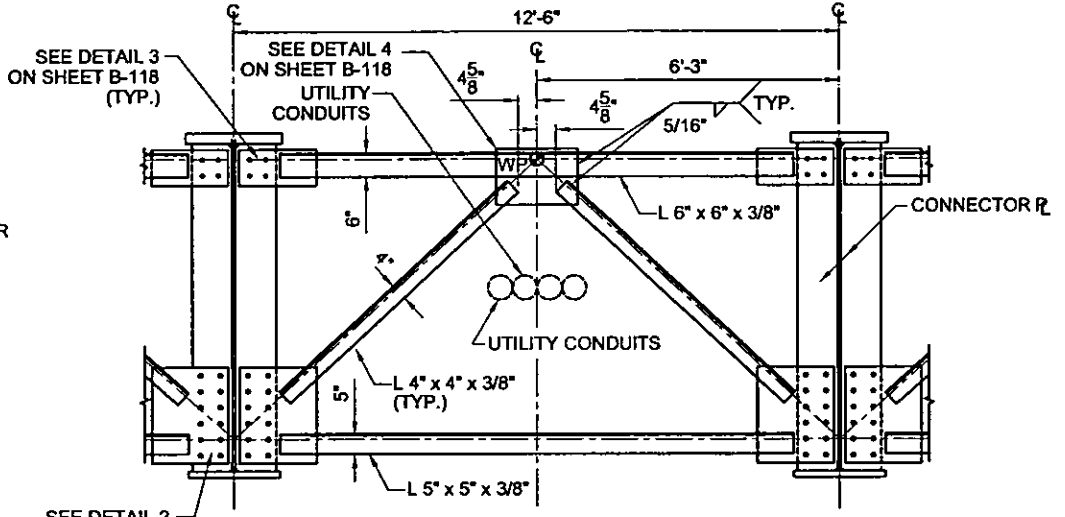
INTERMEDIATE CROSS FRAME PLAN
SCALE: 1/2" = 1'-0"



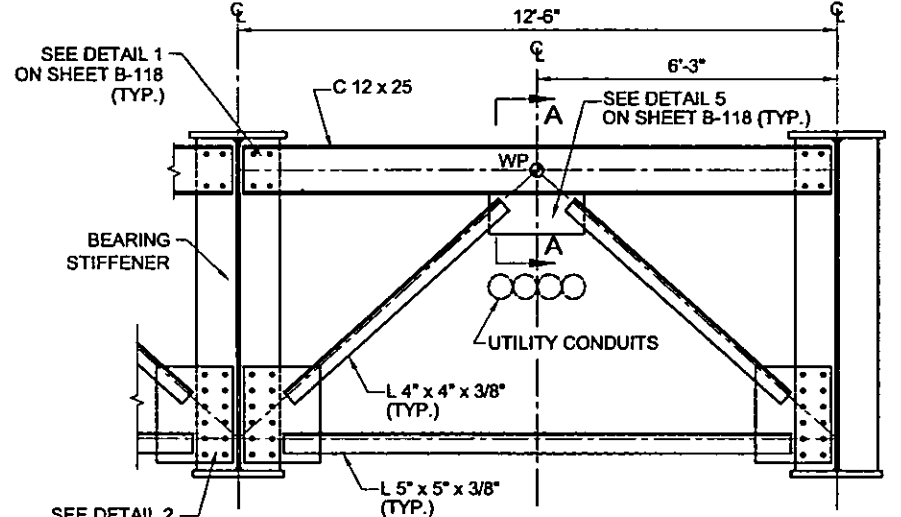
PIER CROSS FRAME PLAN
SCALE: 1/2" = 1'-0"



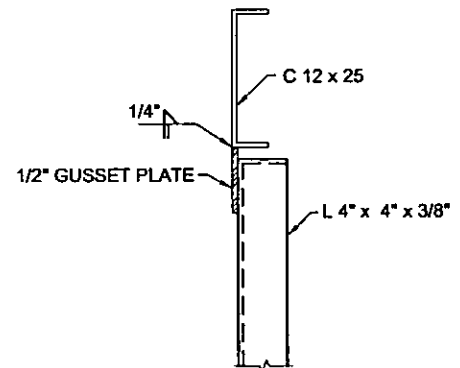
ABUTMENT CROSS FRAME ELEVATION
SCALE: 1/2" = 1'-0"



INTERMEDIATE CROSS FRAME ELEVATION
SCALE: 1/2" = 1'-0"



PIER CROSS FRAME ELEVATION
SCALE: 1/2" = 1'-0"



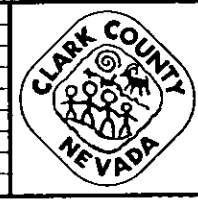
SECTION A-A
SCALE: 1 1/2" = 1'-0"

NOTES:

- 1 ALL STEEL STIFFENERS, CONNECTION PLATES AND CROSS FRAMES SHALL BE AASHTO M270, GRADE 36.
- 2 ALL BOLTED CONNECTIONS SHALL USE 3/4" DIA HIGH STRENGTH BOLTS CONFORMING TO AASHTO M 164 (ASTM A325) UNLESS OTHERWISE NOTED. ALL BOLT HOLES SHALL BE 7/8" DIA UNLESS OTHERWISE NOTED.
- 3 INTERMEDIATE CROSS FRAMES BETWEEN GIRDERS ARE INSTALLED BEFORE THE CLOSURE POUR AND AFTER THE MAIN DECK POURS, UNLESS OTHERWISE NOTED.

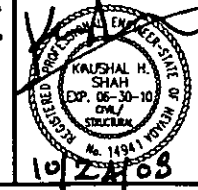
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 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



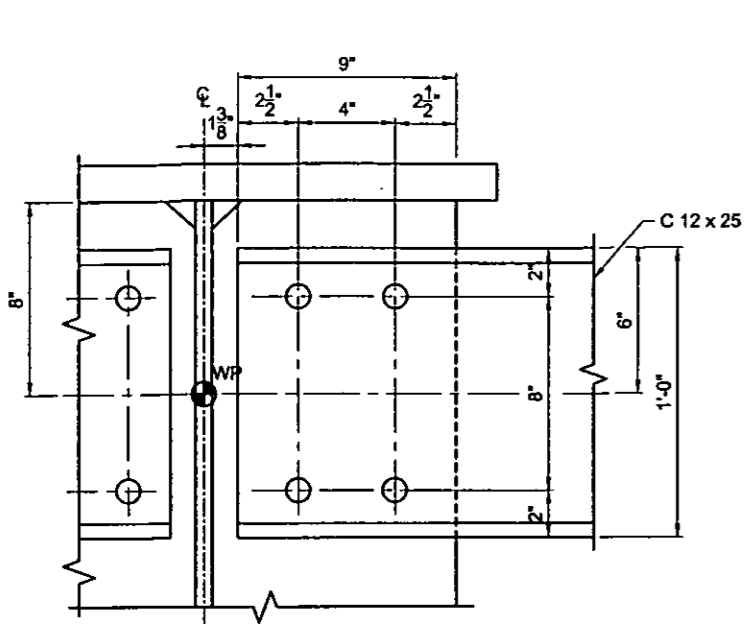
CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
CACTUS AVENUE / I-15 INTERCHANGE
CROSS FRAME DETAILS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

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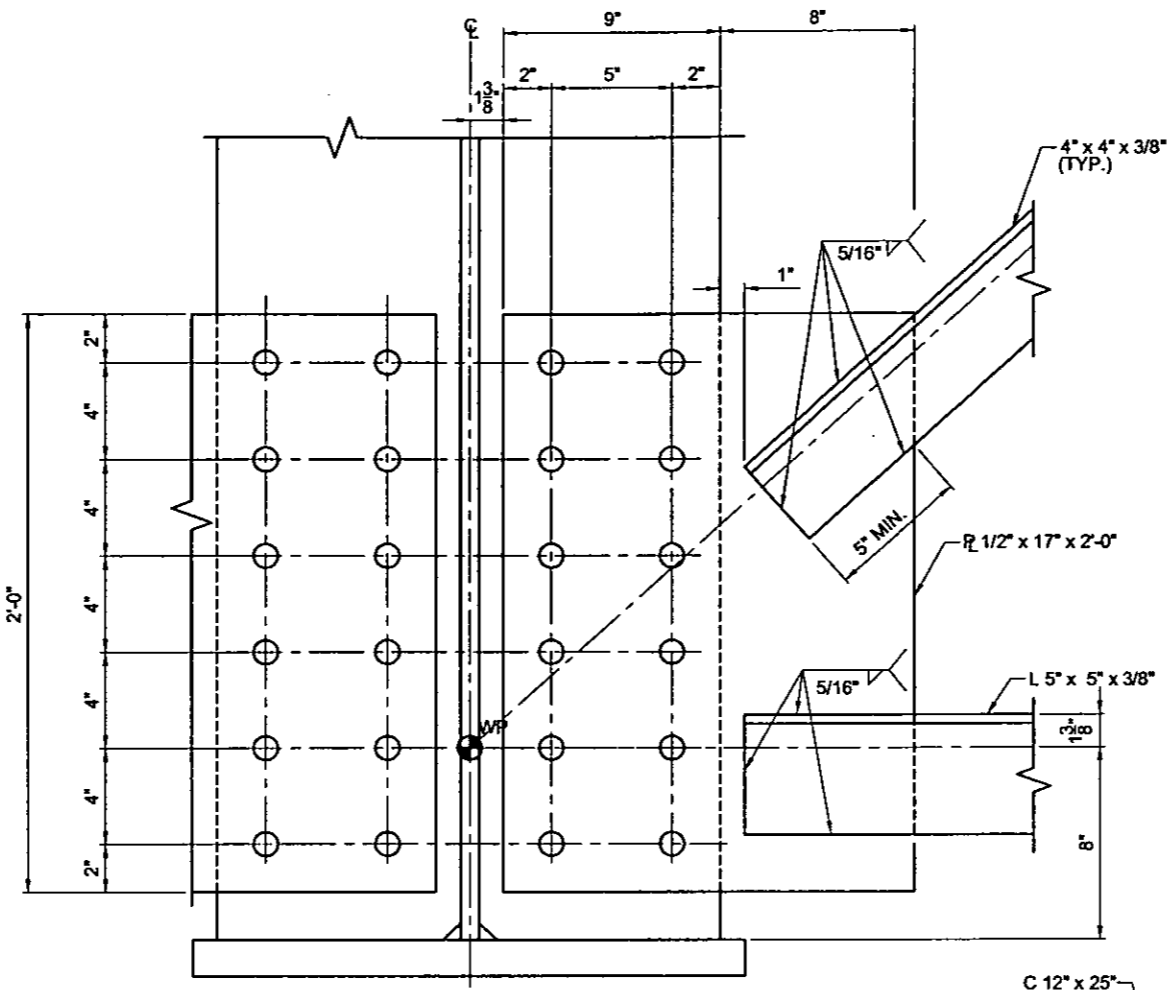


PROJECT No: CB1014 DRAWN BY: SSM
 DESIGNED BY: RSG CHECKED BY: RMS
 APPROVED BY: KHS
THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 LAS VEGAS, NEVADA 89110
 PHONE (702) 736-0832 FAX (702) 736-0704

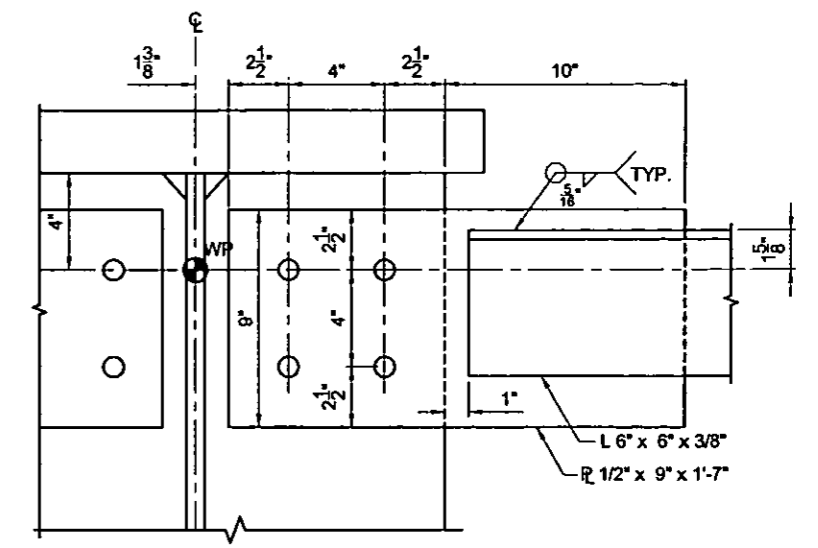
SCALE AS SHOWN	SHEET No
HORIZ:	B-120
VERT:	
FIELD BOOK NONE	
WORK ORDER 2008-	



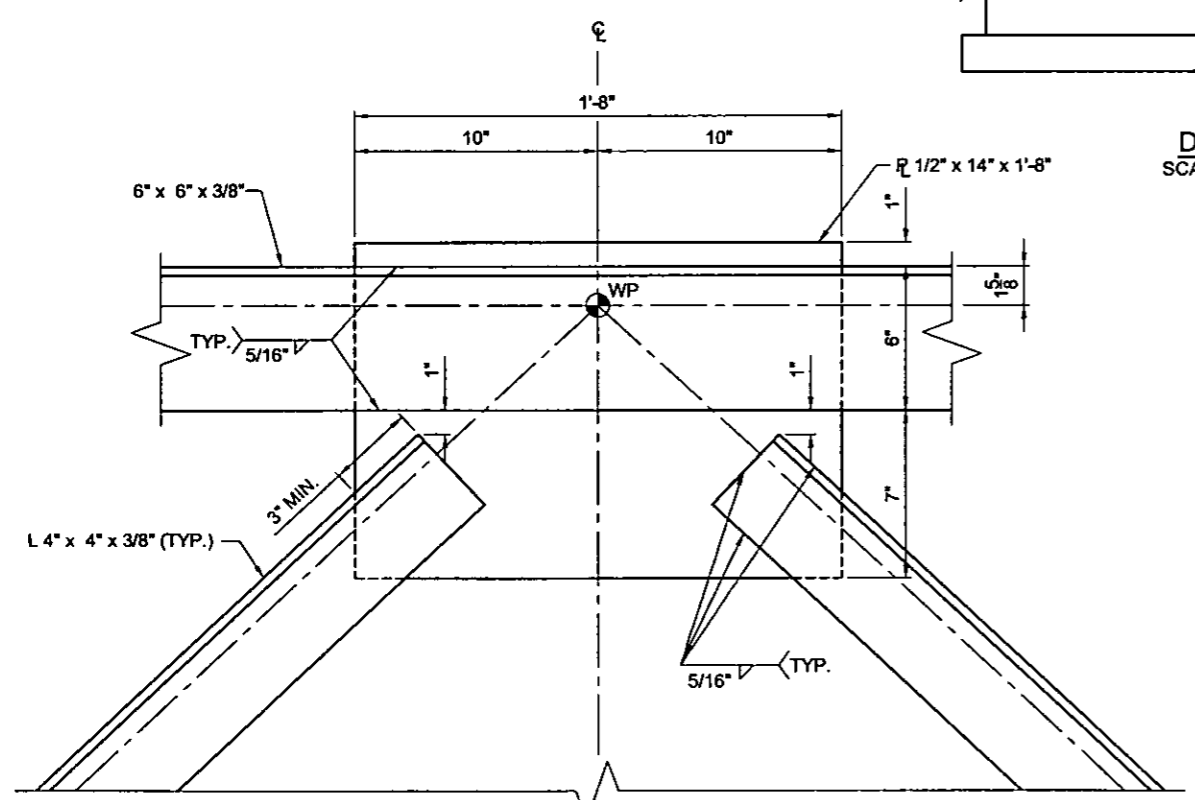
DETAIL 1
SCALE: 3" = 1'-0"



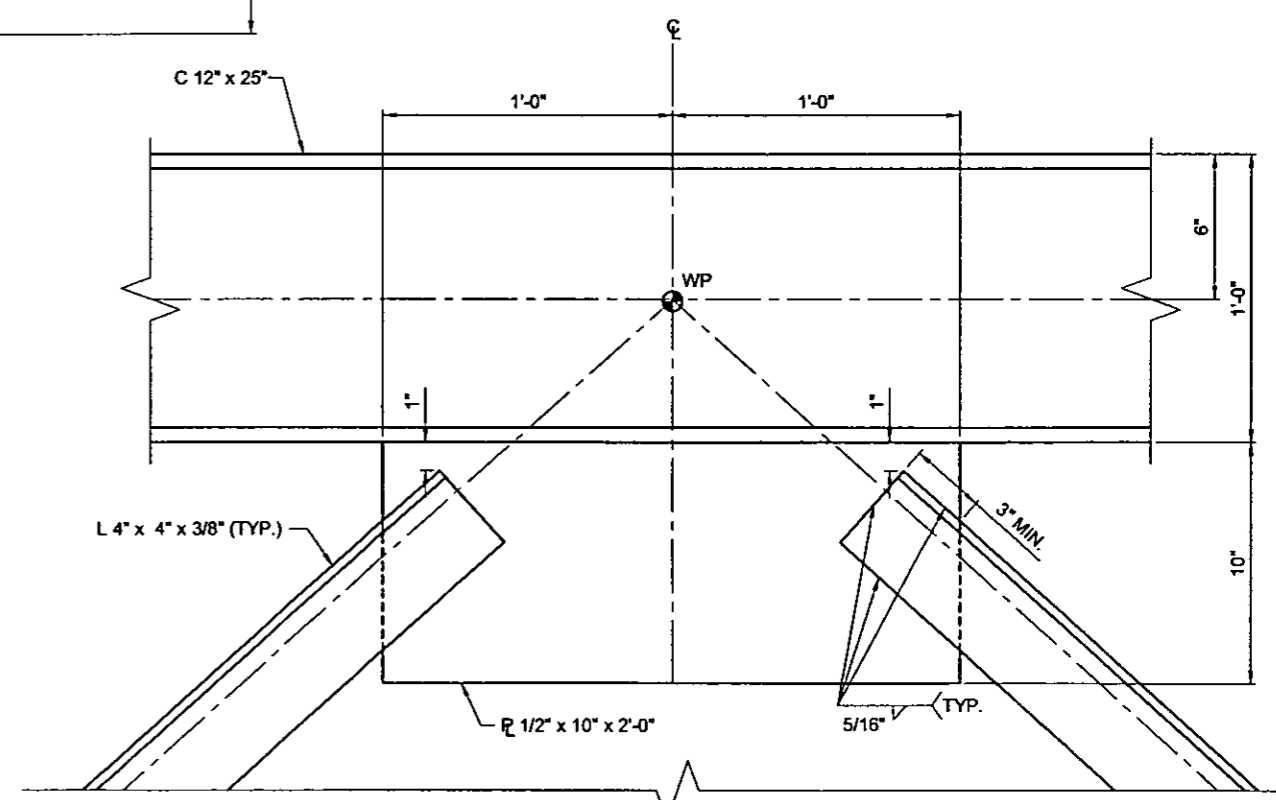
DETAIL 2
SCALE: 3" = 1'-0"



DETAIL 3
SCALE: 3" = 1'-0"



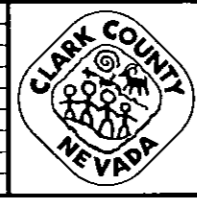
DETAIL 4
SCALE: 3" = 1'-0"



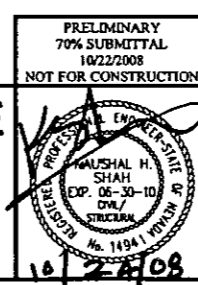
DETAIL 5
SCALE: 3" = 1'-0"

PLOT DATE: Friday, October 2, 2008 2:38:41 PM
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 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED

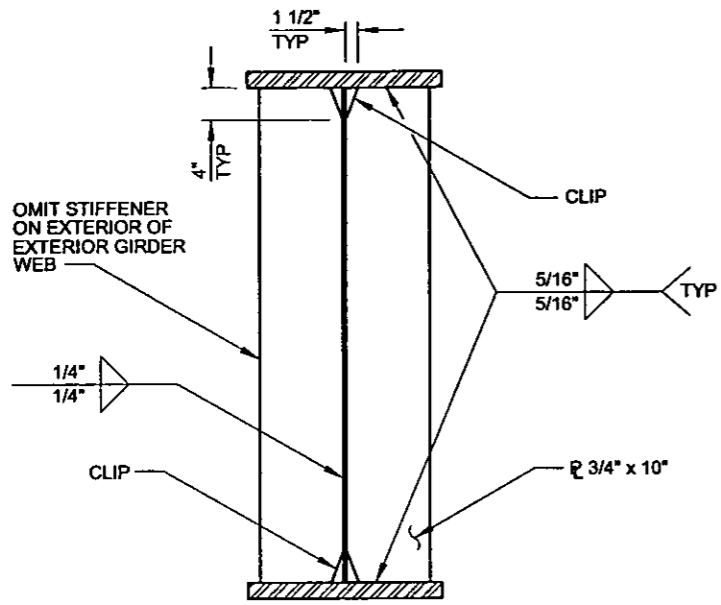


CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
CACTUS AVENUE / I-15 INTERCHANGE
CROSS FRAME DETAILS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

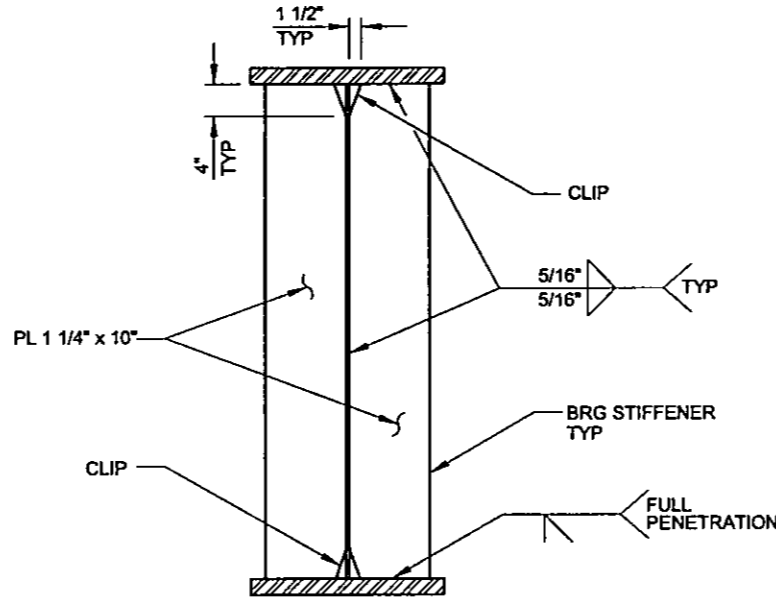


PROJECT No: _____ DRAWN BY: SSM
 DESIGNED BY: RSG CHECKED BY: BMS
 APPROVED BY: KJS
THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 *LAS VEGAS, NEVADA *89119
 PHONE (702) 736-8832 *FAX (702) 736-0704

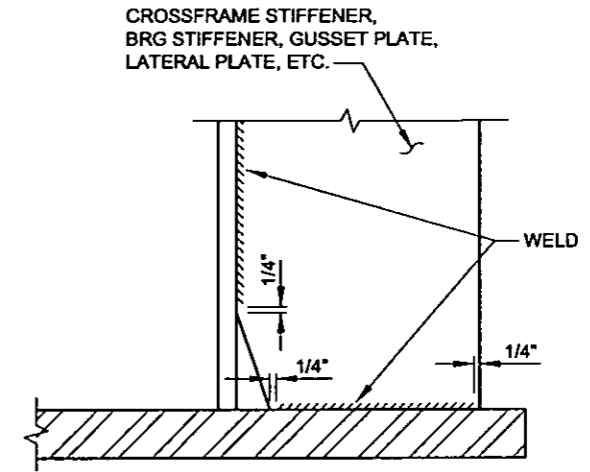
SCALE AS SHOWN	SHEET No
HORIZ:	B-121
VERT:	
FIELD BOOK NONE	
WORK ORDER 2008-	



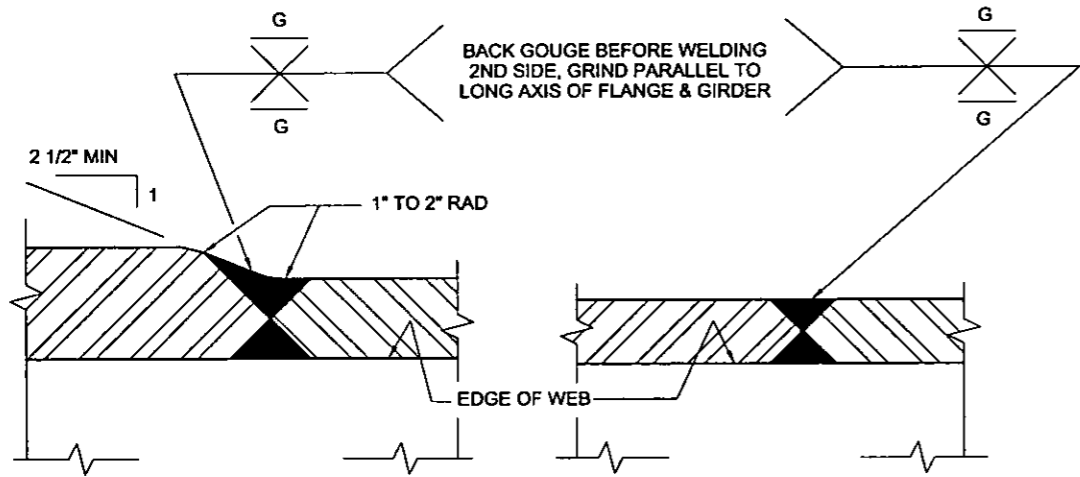
CROSSFRAME CONNECTOR PLATE
SCALE: 1" = 1'-0"



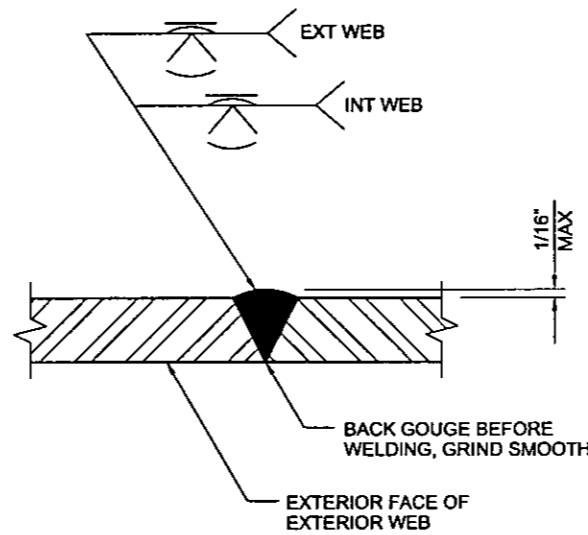
BEARING STIFFENER
SCALE: 1" = 1'-0"



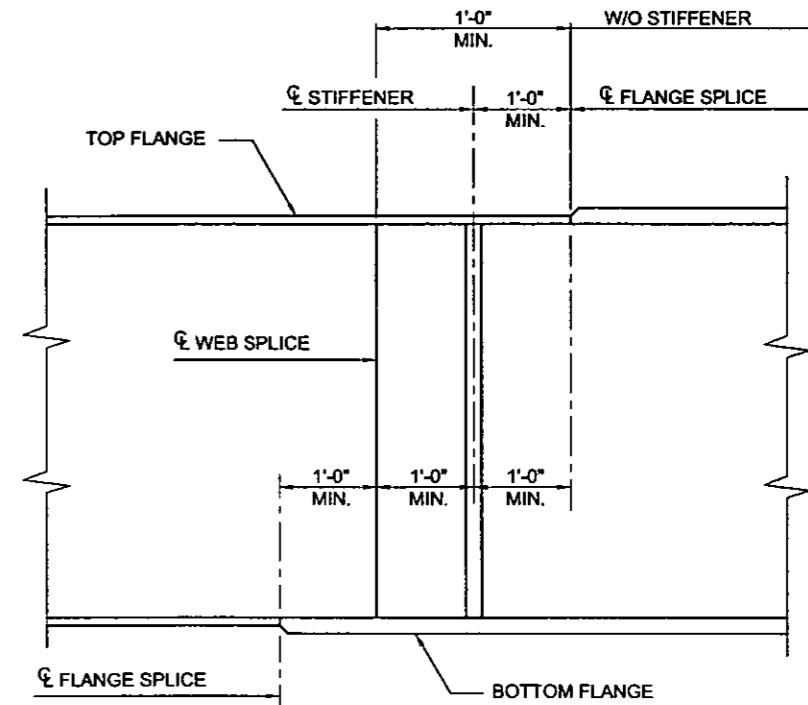
TYPICAL WELD TERMINATION DETAIL
SCALE: 3" = 1'-0"



TENSION OR COMPRESSION FLANGE SPLICE
NTS



VERTICAL WEB SPLICE
NTS



SHOP WEB SPLICE
NTS

SHOP SPLICES

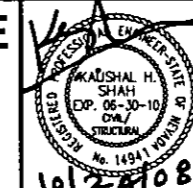
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 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
CACTUS AVENUE / I-15 INTERCHANGE
GIRDER DETAILS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

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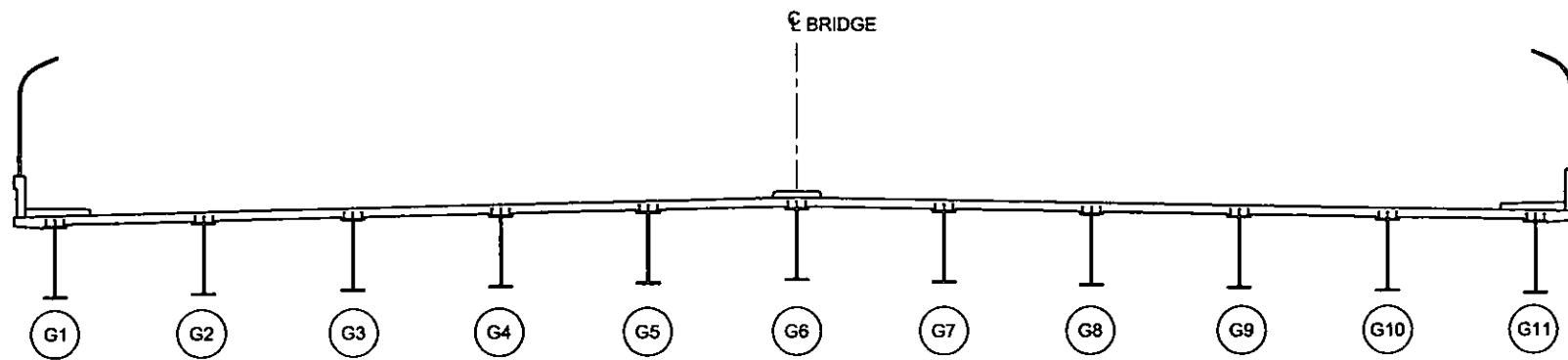


PROJECT No: CB1014 DRAWN BY: SSM
 DESIGNED BY: RSG CHECKED BY: BMS
 APPROVED BY: KHS

THE Louis Berger Group, INC.
 500 AMBRO COURT, SUITE 100 *LAS VEGAS, NEVADA *89119
 PHONE (702) 736-0632 *FAX (702) 736-0704

SCALE AS SHOWN	SHEET No
HORIZ:	B-122
VERT:	
FIELD BOOK NONE	
WORK ORDER 2008-	

CACTUS AVENUE / I-15 INTERCHANGE



GIRDER NUMBERING DIAGRAM
(LOOKING AHEAD ON LINE)
SCALE: 1/8" = 1'-0"

LEGEND

- J = BEAM DEAD LOAD (INCLUDING CROSS FRAMES)
- K = SLAB DEAD LOAD (INCLUDING STAY-IN-PLACE FORMS AT 15 PSF)
- L = COMPOSITE DEAD LOAD (INCLUDING BARRIERS AND FUTURE OVERLAY AT 38 PSF)
- V = VERTICAL CURVE CORRECTION
- T = TOTAL CAMBER (INCHES)

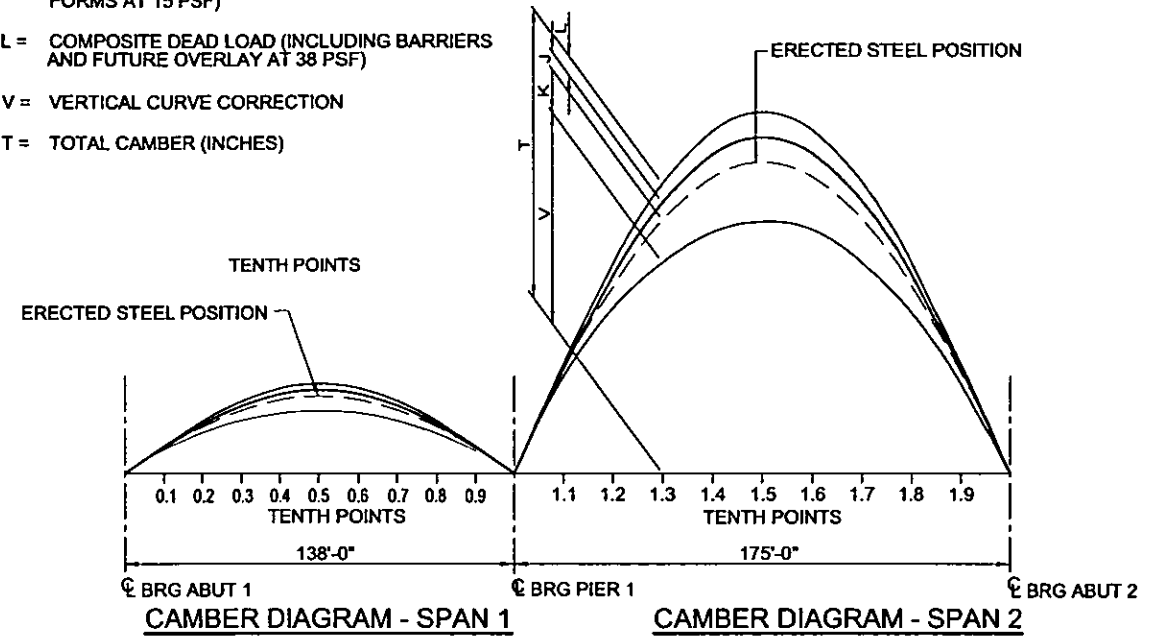


TABLE OF ELEVATIONS
LOCATIONS AT TOP OF TOP FLANGE

LOCATION	ABUT 1	PIER 1	PIER 2	ABUT 2
G1				
G2				
G3				
G4				
G5				
G6				
G7				
G8				
G9				
G10				
G11				

GIRDER G1 & G11	SPAN1										SPAN2										
TENTH POINTS	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
J																					
K																					
L																					
V																					
T																					

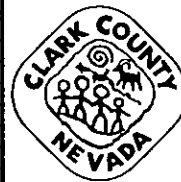
GIRDER G2 THRU G10	SPAN1										SPAN2										
TENTH POINTS	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
J																					
K																					
L																					
V																					
T																					

CAMBER NOTES:

1. ALL CAMBER DIMENSIONS GIVEN IN INCHES. POSITIVE VALUES INDICATE RISE.
2. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING NECESSARY CAMBER ADJUSTMENTS FOR, WELD SHRINKAGE, AND TEMPORARY SHORING. CAMBER DIMENSIONS SHOWN DO NOT INCLUDE AN ALLOWANCE FOR THESE CONDITIONS.
3. ALL STIFFENERS SHALL BE FABRICATED SUCH THAT THEY WILL BE VERTICAL AFTER TOTAL CAMBER HAS OCCURRED.

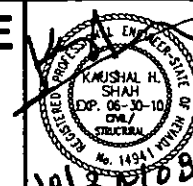
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 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
CACTUS AVENUE / I-15 INTERCHANGE
CAMBER DETAILS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

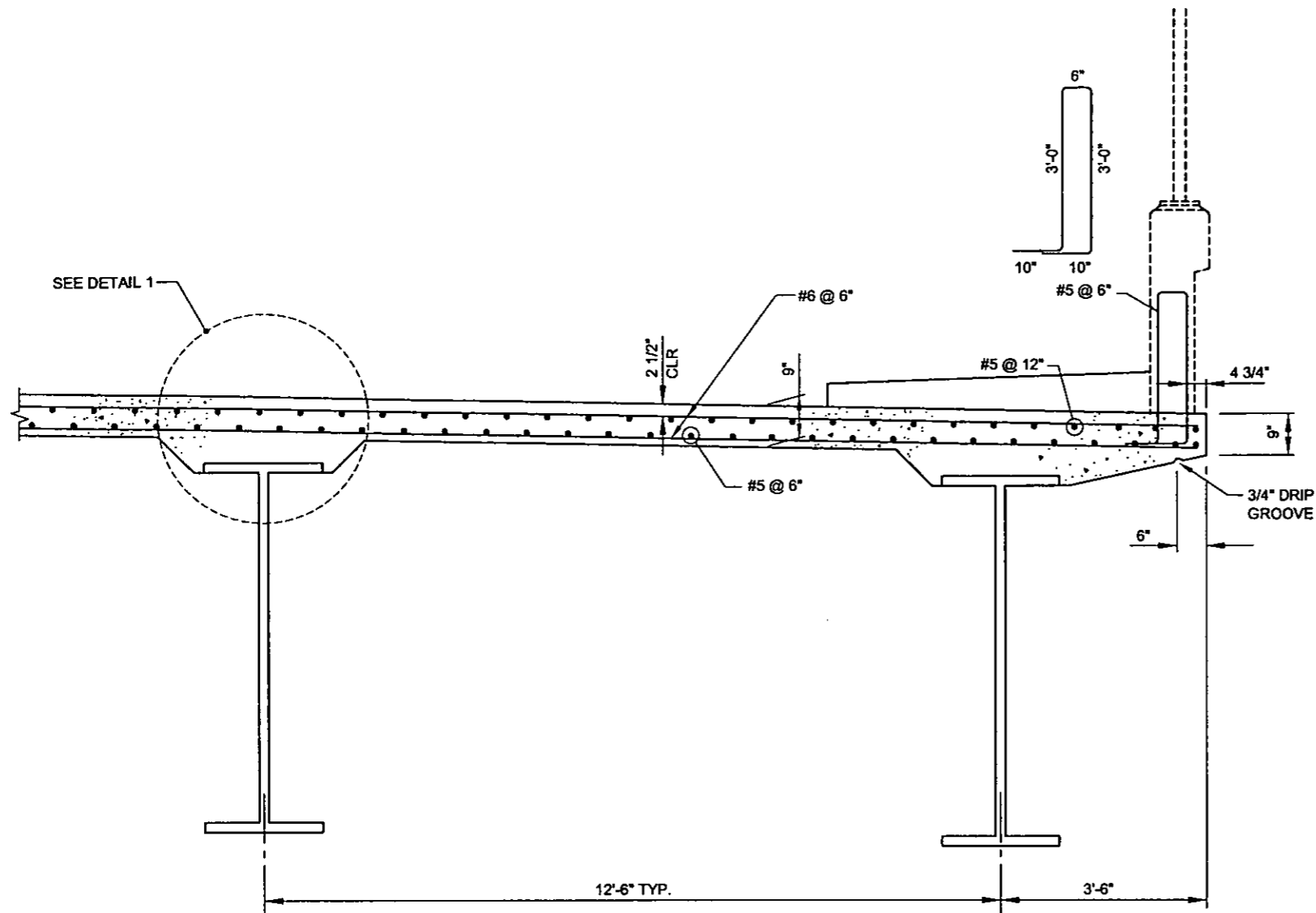
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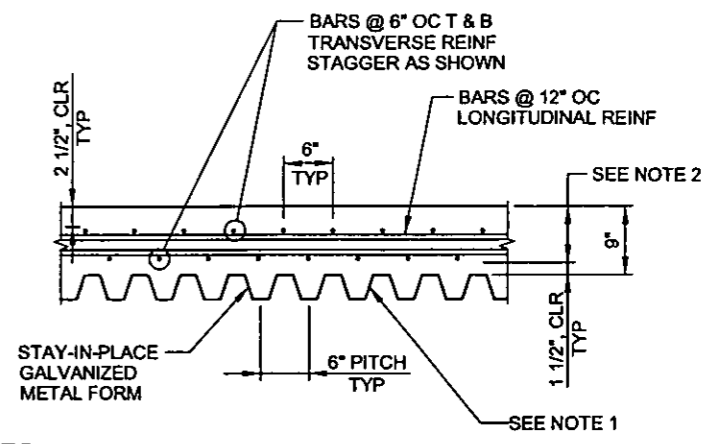
PROJECT No: CB1014 DRAWN BY: SSM
 DESIGNED BY: RSG CHECKED BY: BMS
 APPROVED BY: KHS
THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119
 PHONE (702) 736-0032 • FAX (702) 736-0704

SCALE: AS SHOWN
 SHEET No: **B-123**
 FIELD BOOK: NONE
 WORK ORDER: 2008-

CACTUS AVENUE / I-15 INTERCHANGE



TYPICAL SECTION - NEAR MID-SPAN
SCALE: 3/4" = 1'-0"

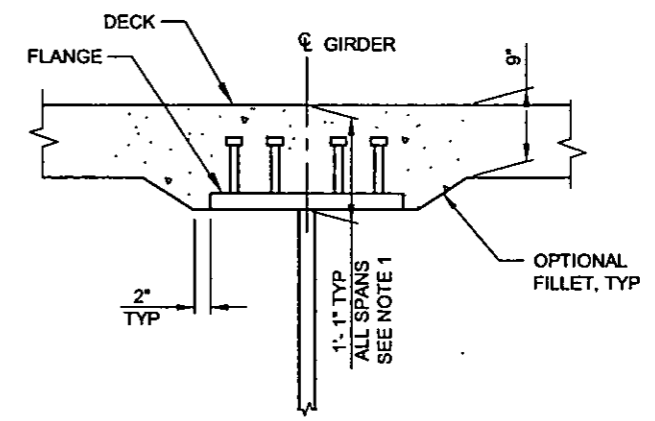


NOTES:

1. THE WEIGHT OF THE STAY-IN-PLACE METAL FORMS PLUS THE WEIGHT OF THE CONCRETE DECK SLAB (INCLUDING THE CORRUGATION FILL) SHALL NOT EXCEED THE WEIGHT OF A 9" SLAB BY MORE THAN 15 LBS. PER SQ. FT. USING 150 LBS. PER CU. FT. FOR THE WEIGHT OF THE CONCRETE.
2. THE LOCATION OF BOTTOM TRANSVERSE REINFORCEMENT SHALL BE LOCATED AS DETAILED FOR NOMINAL SLAB THICKNESS.
3. DO NOT WELD NOR PERMIT WELD SPATTER ON SUPPORTING STEEL GIRDERS, CROSS FRAMES, END FRAMES, ETC. ELECTRICAL GROUNDING TO STRUCTURAL STEEL IS PROHIBITED.

TYPICAL STAY-IN-PLACE METAL FORM DETAIL

SCALE: 1" = 1'-0"



NOTES:

1. THIS DIMENSION (TOP OF DECK TO BOTTOM OF FLANGE) ASSUMES THAT THE STEEL FABRICATION AND ERECTION WILL MEET THE REQUIRED DECK ELEVATION. THIS DIMENSION MAY BE ADJUSTED TO COMPENSATE FOR DEVIATION IN ERECTED STEEL ELEVATION AND PROVIDE CORRECT DECK ELEVATION.
2. METAL STAY-IN-PLACE FORMS SHALL BE USED. WOOD FORMS AT DECK OVERHANGS AND THEIR SUPPORT MEMBERS SHALL BE REMOVED UPON COMPLETION OF THE DECK SLAB.

DETAIL 1

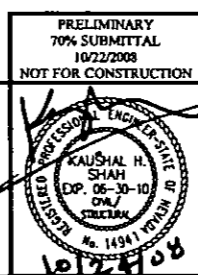
SCALE: 1" = 1'-0"

PLOT DATE: Friday, October 2, 2008 2:46:37 PM
FILE NAME: P:\CIP\MB101\CACTUS\PLANS\PHASE 2\STRUCTURE\BCE10148-11.DWG
REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
CACTUS AVENUE / I-15 INTERCHANGE
TYPICAL DECK SECTION AND DETAILS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

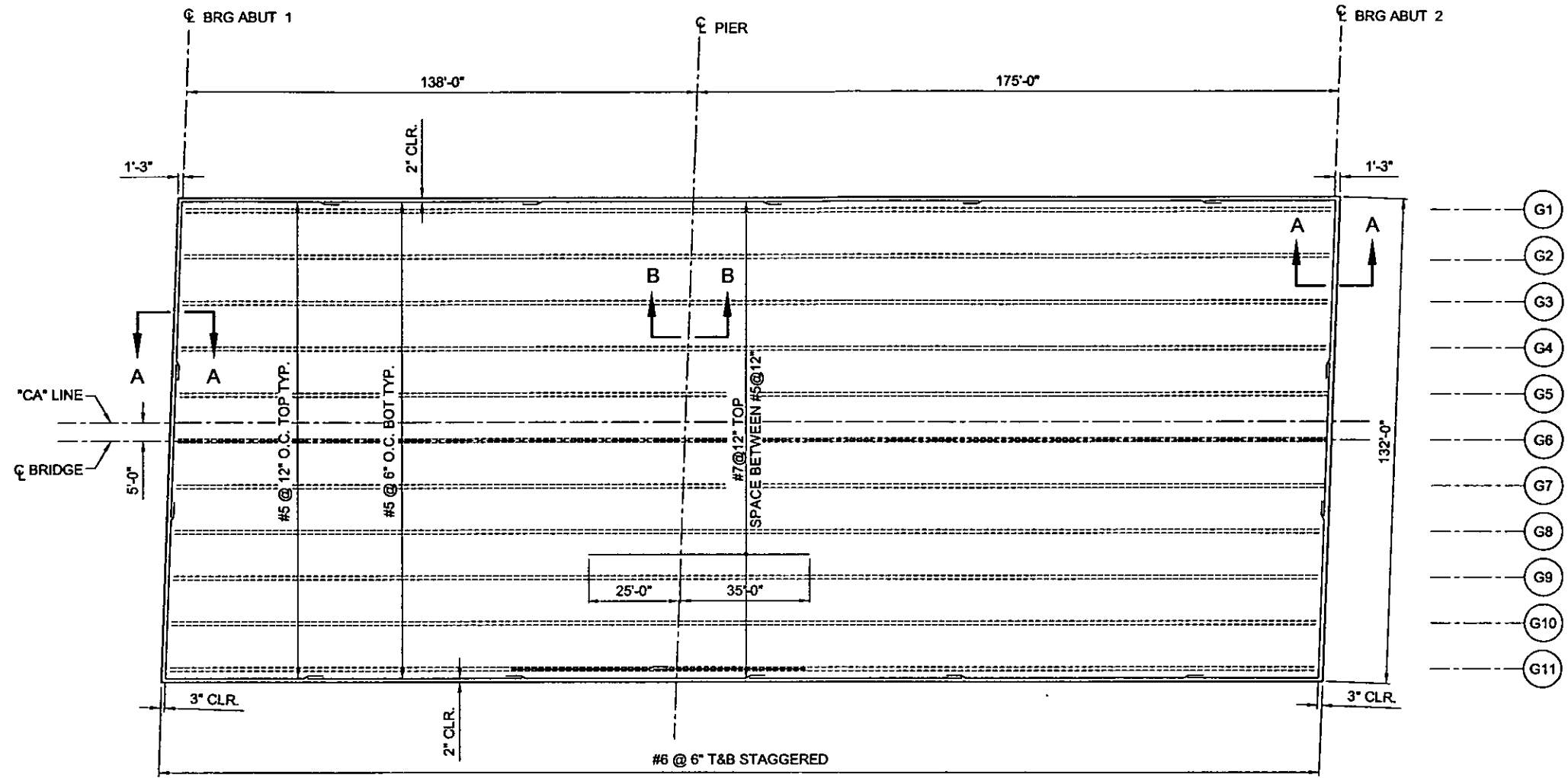


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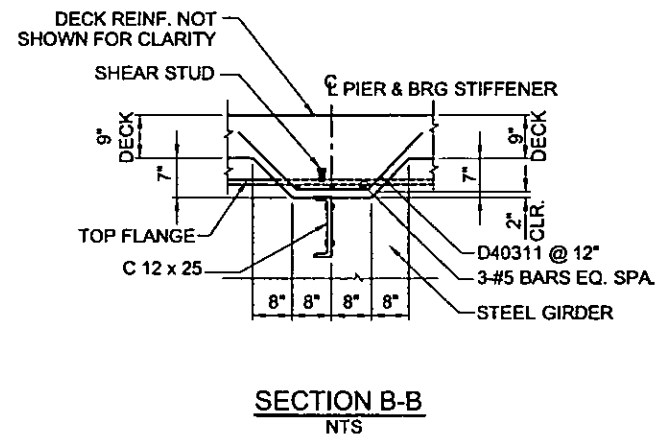
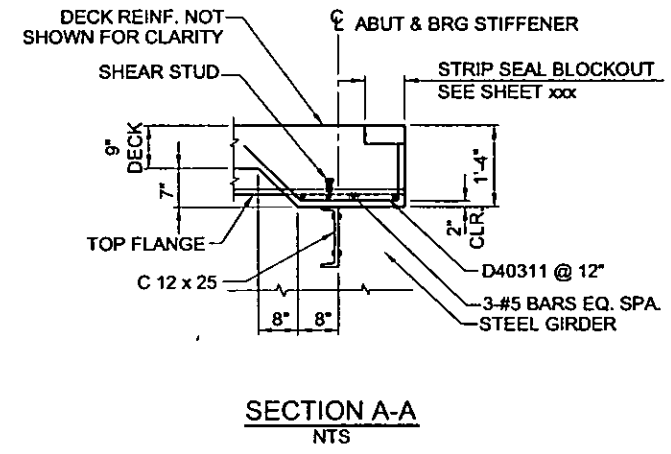
PROJECT No: CB1014 DRAWN BY: SSM
 DESIGNED BY: RSG CHECKED BY: BMS
 APPROVED BY: KHS

THE Louis Berger Group, Inc.
 500 AMMO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119
 PHONE (702) 736-0232 • FAX (702) 736-0704

SCALE AS SHOWN	SHEET No
HORIZ:	B-124
VERT:	
FIELD BOOK	NONE
WORK ORDER	2008



DECK SLAB REINFORCING PLAN
SCALE: 1" = 20'



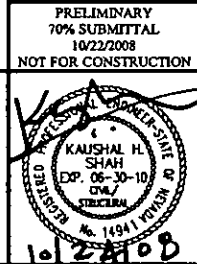
NOTE:
1. TRANSVERSE BARS ARE PLACED PARALLEL TO Q BEARING

PLOT DATE: Friday, October 2, 2008 2:42:24 PM
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 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
CACTUS AVENUE / I-15 INTERCHANGE
DECK SLAB REINFORCING
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

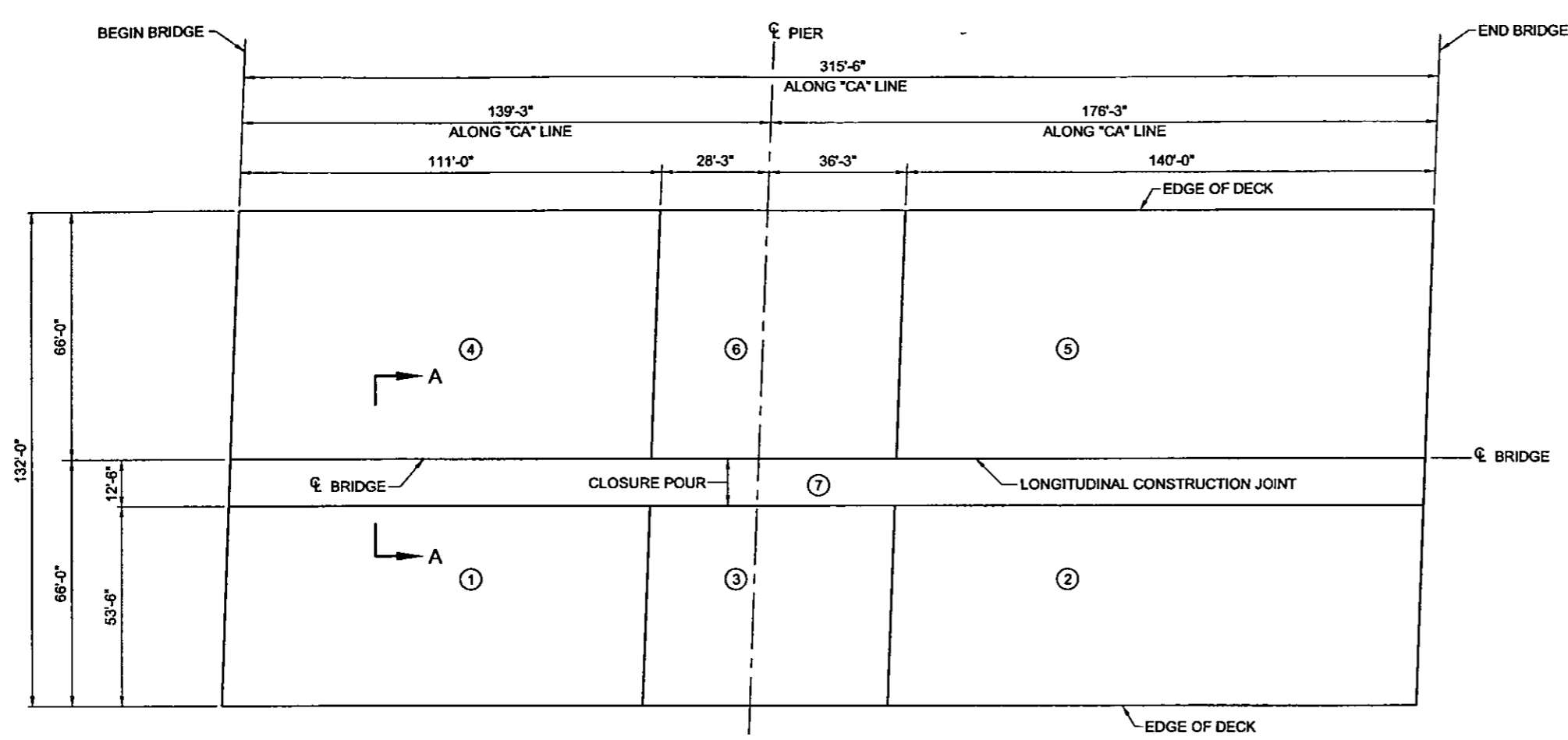


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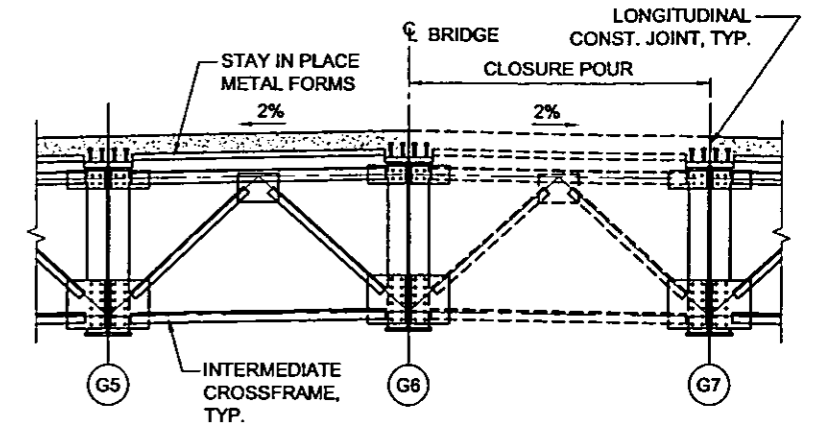
PROJECT No: CB1014 DRAWN BY: SSM
 DESIGNED BY: RSG CHECKED BY: BMS
 APPROVED BY: IHS

THE Louis Berger Group, INC.
 500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119
 PHONE (702) 736-8832 • FAX (702) 736-0704

SCALE AS SHOWN	SHEET No
HORIZ:	B-125
VERT:	
FIELD BOOK NONE	
WORK ORDER 2008-	



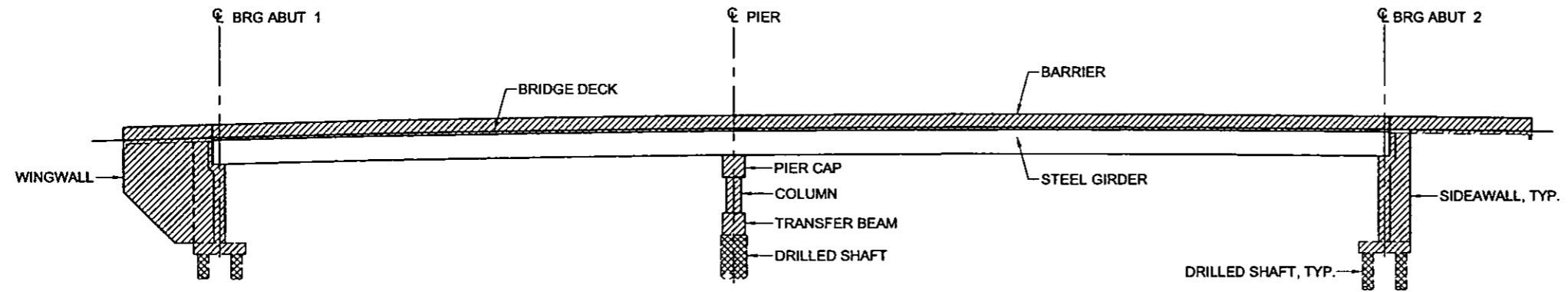
DECK CONCRETE POURING SCHEDULE
SCALE: 1" = 20'-0"



SECTION A-A
SCALE: 1/4" = 1'-0"

NOTE:
INTERMEDIATE CROSSFRAME AT CLOSURE POUR SHALL BE INSTALLED AFTER MAIN DECK POUR AND BEFORE CLOSURE POUR.

- POURING SCHEDULE NOTES:**
- ① THROUGH ⑦ ARE POURING SEQUENCE.
 - ① ②, AND ④ ⑤, MAY BE COMBINED.
 - AT CONTRACTORS OPTION, THE DECK MAY BE POURED IN ONE CONTINUOUS OPERATION FROM EDGE OF DECK TO EDGE OF DECK (132').



CONCRETE CLASSIFICATION DIAGRAM
SCALE: 1" = 20'-0"

CONCRETE CLASSIFICATION LEGEND:

CLASS A MODIFIED MAJOR CONCRETE, $f_c = 4500$ psi @ 28 DAYS.

CLASS A MODIFIED MAJOR CONCRETE $f_c = 4500$ psi @ 28 DAYS FOR DRILLED SHAFTS.

- CONCRETE CLASSIFICATION NOTES:**
- ALL CONCRETE IS CLASS A $f_c = 4500$ psi INCLUDING APPROACH SLABS, SIDEWALK AND MEDIAN.
 - CLASS D MAY BE SUBSTITUTED FOR CLASS A.

PLOT DATE: Friday, October 2, 2008 2:45:45 PM
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 REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



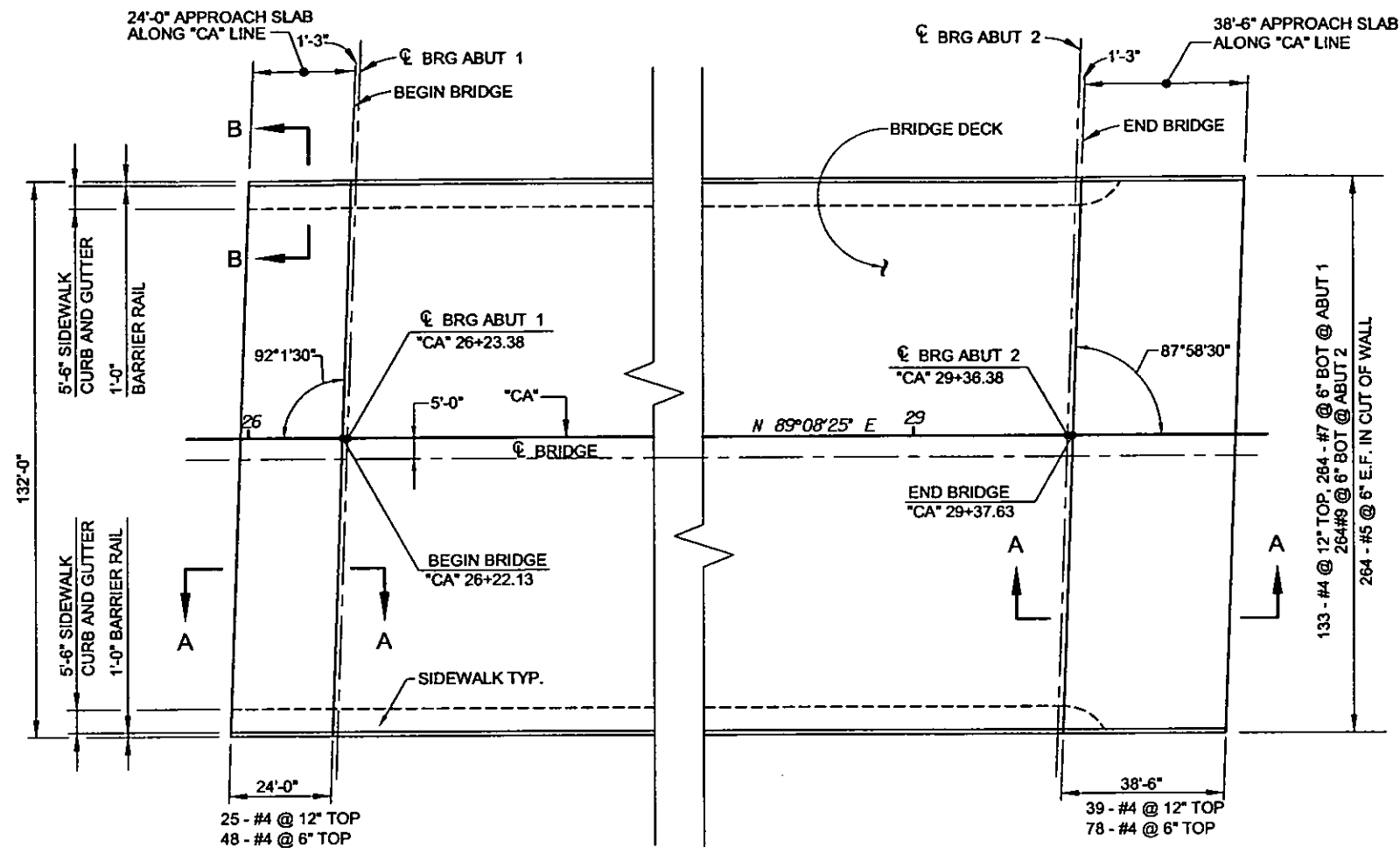
CACTUS AVENUE / I-15 INTERCHANGE
 DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
CACTUS AVENUE / I-15 INTERCHANGE
DECK CONCRETE POURING SCHEDULE
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

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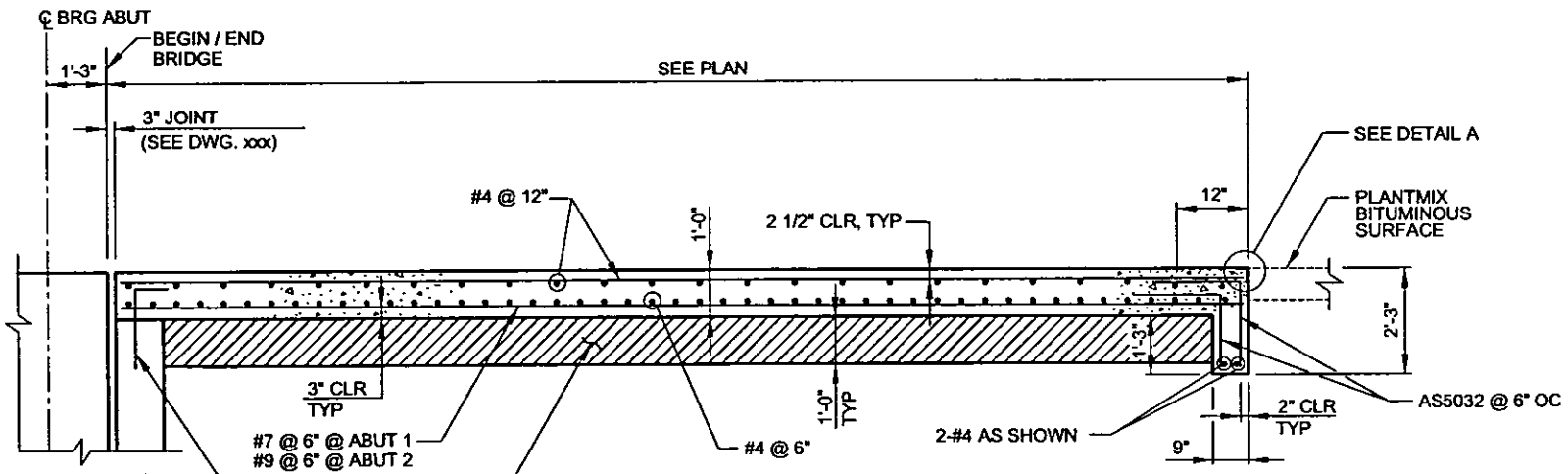
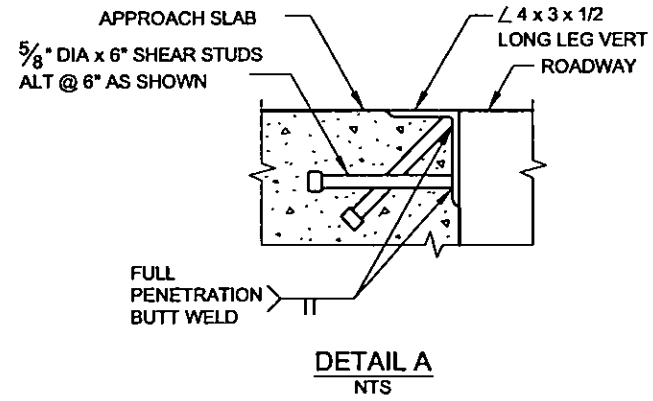
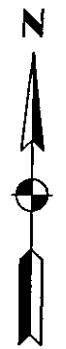


PROJECT No: CB1014 DRAWN BY: SSM
 DESIGNED BY: RSG CHECKED BY: BMS
 APPROVED BY: KHS
THE Louis Berger Group, INC.
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 PHONE (702) 736-6532 • FAX (702) 736-0704

SCALE: AS SHOWN	SHEET No
HORIZ:	B-126
VERT:	
FIELD BOOK: NONE	
WORK ORDER: 2008-	

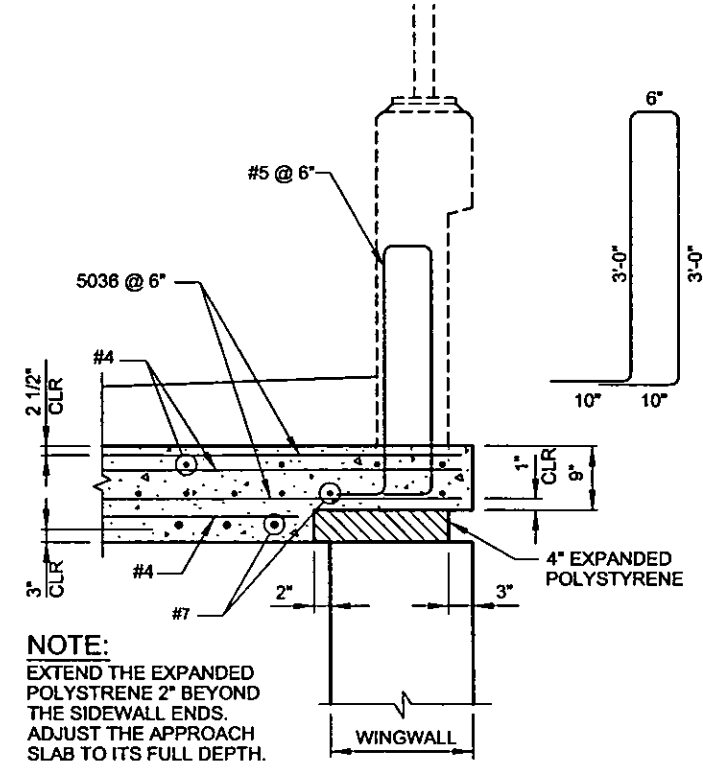


APPROACH SLAB
SCALE: 1" = 20'-0"



SECTION A-A
SCALE: 1/2" = 1'-0"

NOTE:
MATERIALS UNDER APPROACH SLAB SHALL BE COMPACTED AS STRUCTURAL BACKFILL IN ACCORDANCE WITH SECTION 203.03.18 OF THE SPECIFICATIONS AND/OR THE SPECIAL PROVISIONS.



NOTE:
EXTEND THE EXPANDED POLYSTYRENE 2" BEYOND THE SIDEWALL ENDS. ADJUST THE APPROACH SLAB TO ITS FULL DEPTH.

SECTION B-B
SCALE: 1" = 1'-0"

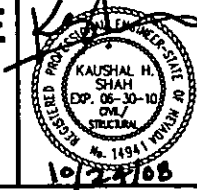
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REFERENCE FILES:

REV. NO.	DATE	DESCRIPTION	APPROVED



CACTUS AVENUE / I-15 INTERCHANGE
DEAN MARTIN DRIVE TO LAS VEGAS BOULEVARD
CACTUS AVENUE / I-15 INTERCHANGE
APPROACH SLAB
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PRELIMINARY
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PROJECT No: CB1014 DRAWN BY: SSM
DESIGNED BY: RSG CHECKED BY: BMS
APPROVED BY: KHS

THE Louis Berger Group, INC.
500 AMGO COURT, SUITE 100 LAS VEGAS, NEVADA 89119
PHONE (702) 736-8822 FAX (702) 736-0704

SCALE AS SHOWN	SHEET No
HORIZ:	B-127
VERT:	
FIELD BOOK NONE	
WORK ORDER 2008-	