CONTRACT 2721

FED. RD. REG. NO.	STATE	PROJECT NO.	COUNTY	SHEET NO.
9	NEVADA	SPI-015-1(20)	CLARK	1

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION PLANS

CLARK COUNTY

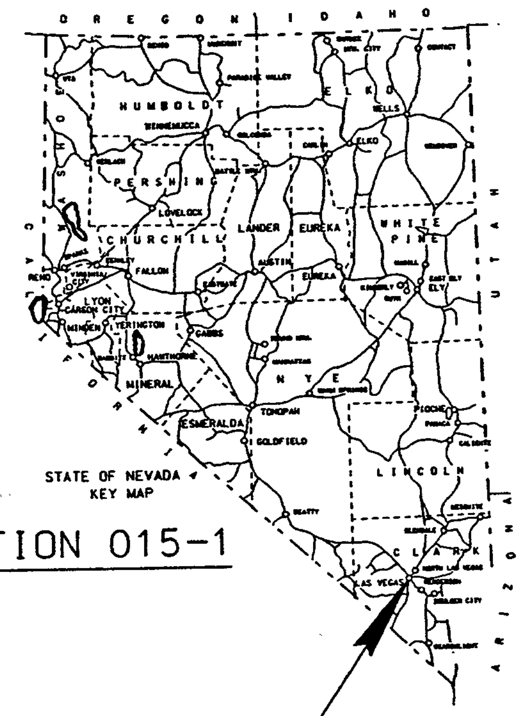
FROM THE CALIFORNIA/NEVADA STATE LINE TO 2.42 MILES EAST OF THE JUNCTION WITH ROUTE US 093

INDEX OF SHEETS

SEE BOOK OF STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION STATE OF NEVADA. JULY 1994 EDITION.

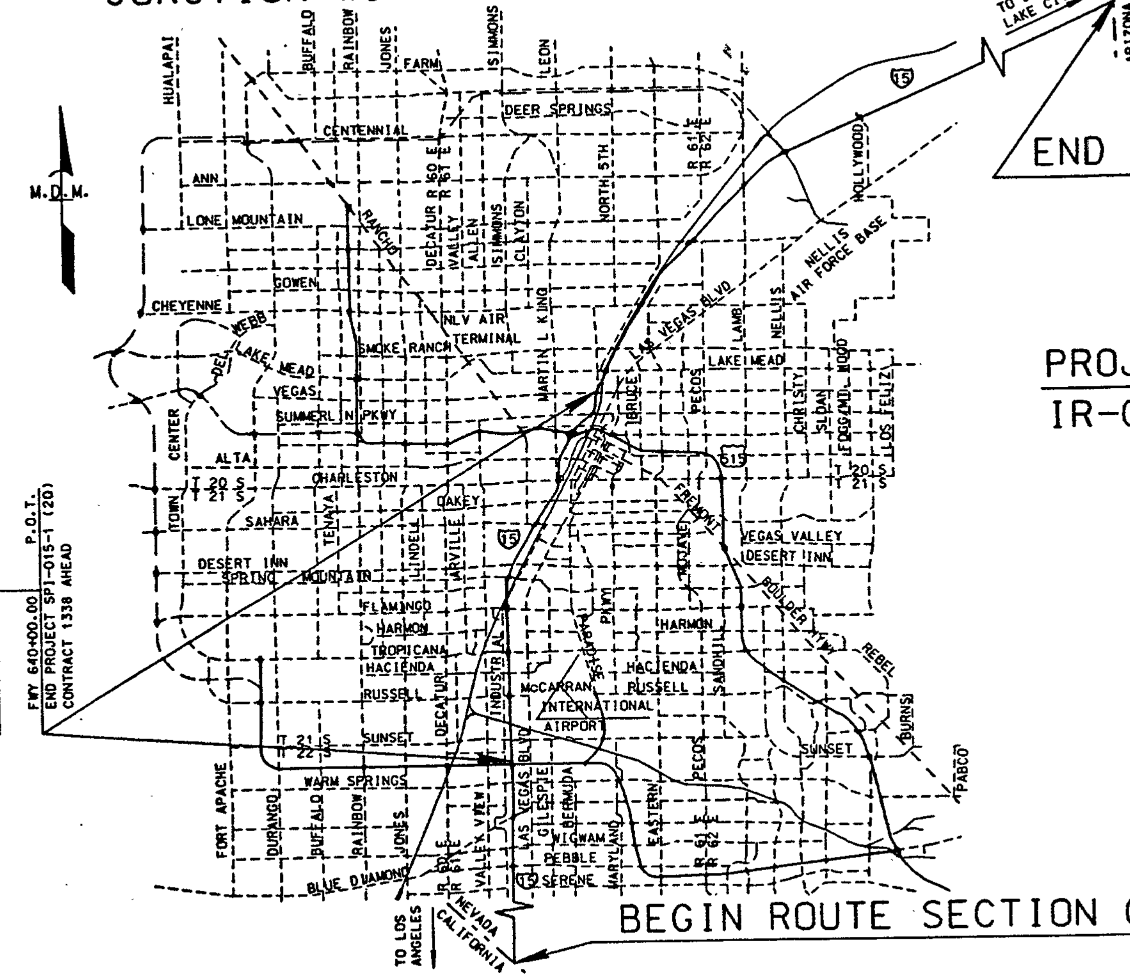
DESIGN DESIGNATION

CONTROL OF ACCESS	FULL
ADT (1995)	164.000
ADT (2005)	195.000
ADT (2015)	226.000
DHV	16.500
D%	53
T%	6
V	70 MPH



END ROUTE SECTION 015-1

PROJECT SPI-015-1(20)
IR-015-CL 34.86 TO 45.65



BEGIN ROUTE SECTION 015-1

PROJECT SPI-015-1 (20)
RECONSTRUCT A PORTION OF I-15 MEDIAN INCLUDING BRIDGE NUMBERS I-837 AND H-933. DEMOLISH AND REMOVE BRIDGE NO. I-798. GRIND A PORTION OF I-15 PCCP NORTHBOUND AND SOUTHBOUND LANES

LENGTH OF BRIDGES	0.703 MILES
LENGTH OF PROJECT	10.795 MILES
LENGTH OF CONSTRUCTION	10.795 MILES
LENGTH OF ROUTE SECTION	66.726 MILES

TO BE CONTRACTED

CONTRACT 1096 BACK
BEGIN PROJECT SPI-015-1 (20)
"A" 70+00.00 P.O.T

FWY 640+00.00 P.O.T.
END PROJECT SPI-015-1 (20)
CONTRACT 1338 AHEAD

ALIGNMENT

- BEGIN PROJECT SPI-015-1 (20) / "A" 70+00.00 P.O.T
- "A" 73+82.35 P.O.T. I-789
- "A" 95+92.27 P.O.T. = / "A" 95+92.35 P.O.T.
- "A" 116+76.78 P.O.T. G-790
- "A" 122+12.00 P.O.T. B-791
- "A" 150+53.50 P.OT. I-1940
- "A" 172+15.28 P.O.T. = / "B" 172+15.28 P.O.T.
- "B" 197+80.00 P.O.T. B-795
- "B" 202+08.18 P.O.T. I-796R
- "B" 204+08.21 P.O.T. I-796
- "B" 254+29.63 P.O.T. I-1745
- "B" 256+35.00 P.O.T. I-798A
- "B" 260+75.01 P.O.T. B-799
- "B" 264+80.00 P.O.T. B-800
- B 273+30.67 P.O.T. / B 273+69.33 P.O.T. H-804
- B 279+35.98 P.O.T. / B 282+56.98 P.O.T. G-805N
- B 296+64.75 P.O.T. / B 298+14.75 P.O.T. I-806
- "B" 312+61.52 P.O.C. H-2011
- "B" 364+50.00 P.O.T. = / "B" 364+50.59 P.O.T.
- B 369+40.93 P.O.T. / B 371+46.48 P.O.T. I-837
- B 402+53.96 P.O.T. / B 405+23.89 P.O.T. H-933
- B 424+20.95 P.O.C. / B 425+79.11 P.O.C. H-1042
- B 432+94.72 P.O.T. / B 434+65.88 P.O.T. I-934
- B 459+92.25 P.O.C. / B 461+36.57 P.O.C. H-935
- B 479+78.81 P.O.C. / B 481+81.38 P.O.C. H-936
- B 484+62.53 P.O.C. / B 485+72.53 P.O.C. I-2138
- B 492+45.30 P.O.C. / B 495+02.03 P.O.C. I-937
- B 496+42.44 P.O.C. / B 497+74.80 P.O.C. I-938
- B 502+77.14 P.O.C. / B 504+49.14 P.O.C. G-941
- B 507+10.00 P.O.C. / B 510+68.00 P.O.C. H-942
- B 514+51.57 P.O.T. / B 516+59.57 P.O.T. H-1339
- B 523+15.16 P.O.C. / B 525+40.16 P.O.C. I-1340
- B 530+35.16 P.O.C. / B 532+87.16 P.O.C. I-943
- "B" 559+60.62 P.O.C. H-948
- "B" 572+64.09 P.O.C. G-949
- B 574+04.28 P.O.T. = / BE 574+04.28 P.O.T.
- BE 589+47.21 P.O.T. / BE 591+14.21 P.O.T. I-950
- BE 594+54.64 P.O.T. / BE 596+22.64 P.O.T. I-952
- BE 612+98.58 P.O.T. = / FWY 612+98.58 P.O.T.
- "FWY" 620+43.00 P.O.T. G-953
- FWY 640+00.00 P.O.T. / END PROJECT SPI-015-1 (20)

APPROVED JUNE 27, 1995:

for Jeffrey Fontaine
THOMAS E. STEPHENS, P.E. DIRECTOR, DEPT. OF TRANSPORTATION

GOVERNOR BOB MILLER
CHAIRMAN, TRANSPORTATION BOARD

PROFESSIONAL ENGINEER STATE OF NEVADA — WILLIAM I. HORDAN — 7/7/95 — CIVIL — No. 11127

107-V6626

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July 7, 1995

FED. RD. REG. NO.	STATE	PROJECT NO.	COUNTY	SHEET NO.
9	NEVADA	DPC-0009(002)	CLARK	1A

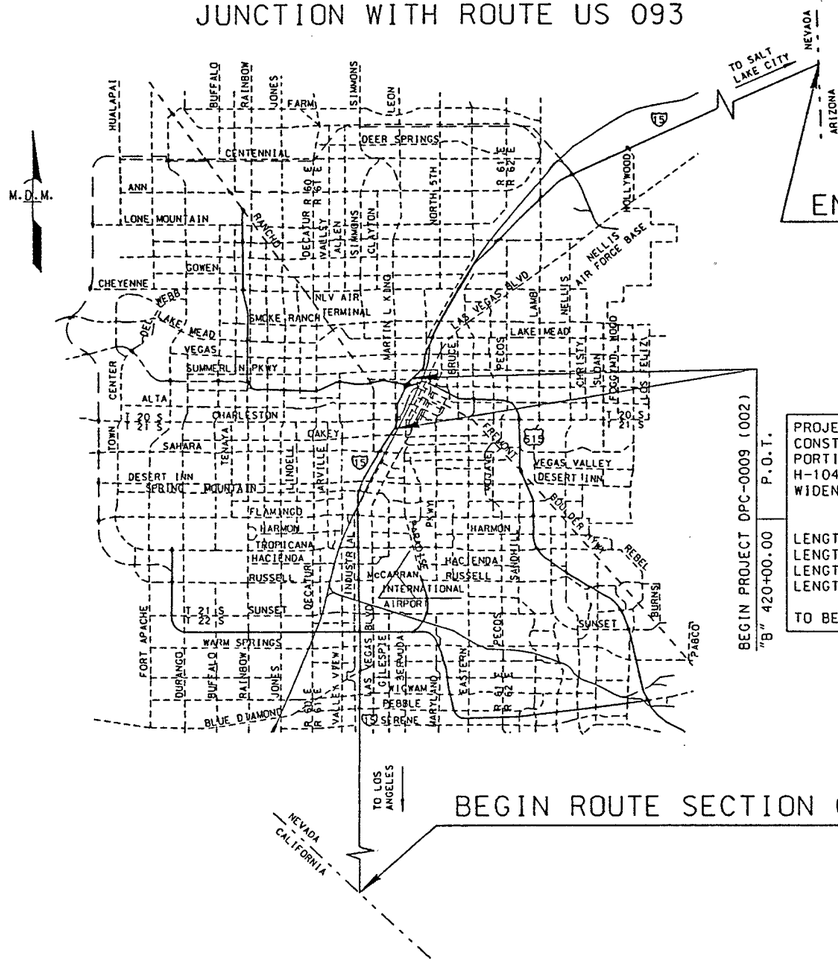
STATE OF NEVADA

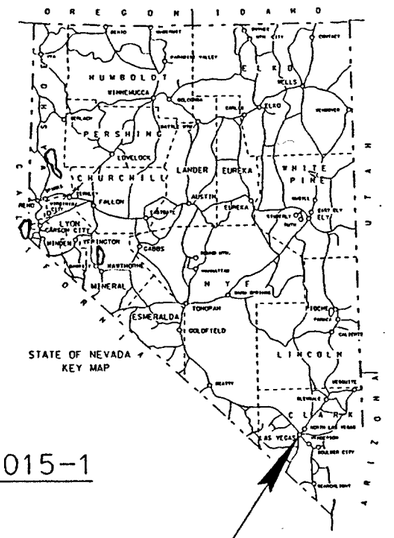
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION PLANS

CLARK COUNTY

FROM THE CALIFORNIA/NEVADA STATE LINE TO 2.42 MILES EAST OF THE JUNCTION WITH ROUTE US 093





STATE OF NEVADA
KEY MAP

PROJECT DPC-0009 (002)
CONSTRUCT NEW BRIDGE NO. I-2138. RECONSTRUCT A PORTION OF I-15 MEDIAN INCLUDING BRIDGE NUMBERS H-1042, I-934.H-935, H-936, I-937, AND I-938. WIDEN BRIDGE NO. I-938 ON RIGHT.

LENGTH OF BRIDGE	0.222 MILES
LENGTH OF PROJECT	1.540 MILES
LENGTH OF CONSTRUCTION	1.584 MILES
LENGTH OF ROUTE SECTION	66.726 MILES

TO BE CONTRACTED

BEGIN PROJECT DPC-0009 (002) P.O.T. "B" 420+00.00

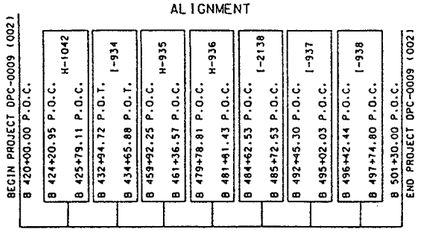
"B" 501+30.00 P.O.C. END PROJECT DPC-0009 (002)

APPROVED JUNE 27, 1995:

for THOMAS J. STEPHENS, P.E. DIRECTOR, DEPT. OF TRANSPORTATION

GOVERNOR BOB MILLER
CHAIRMAN, TRANSPORTATION BOARD

ALIGNMENT



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

WILLIAM I. HORMAN 7/7/74 CIVIL No. 11121 STATE OF NEVADA PROFESSIONAL ENGINEER

for DIVISION ADMINISTRATOR — 4/4/95 DATE

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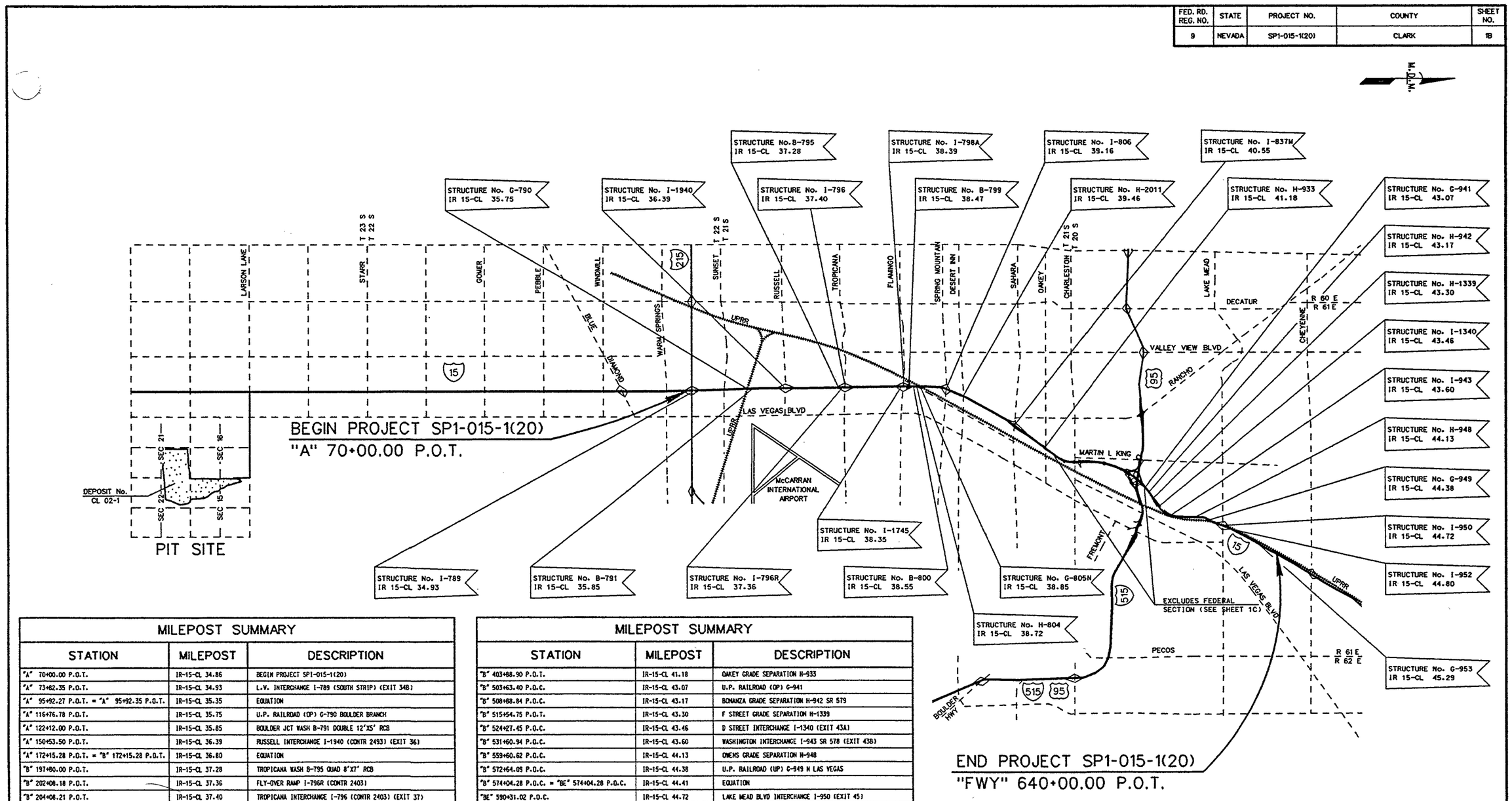
July 7, 1995

FED. RD. REG. NO.	STATE	PROJECT NO.	COUNTY	SHEET NO.
9	NEVADA	SP1-015-1(20)	CLARK	1B



MILEPOST SUMMARY

STATION	MILEPOST	DESCRIPTION
"A" 70+00.00 P.O.T.	IR-15-CL 34.86	BEGIN PROJECT SP1-015-1(20)
"A" 73+82.35 P.O.T.	IR-15-CL 34.93	L.V. INTERCHANGE I-789 (SOUTH STRIP) (EXIT 34B)
"A" 95+92.27 P.O.T. = "A" 95+92.35 P.O.T.	IR-15-CL 35.35	EQUATION
"A" 116+76.78 P.O.T.	IR-15-CL 35.75	U.P. RAILROAD (OP) G-790 BOULDER BRANCH
"A" 122+12.00 P.O.T.	IR-15-CL 35.85	BOULDER JCT WASH B-791 DOUBLE 12'X5' RCB
"A" 150+53.50 P.O.T.	IR-15-CL 36.39	RUSSELL INTERCHANGE I-1940 (CONTR 2493) (EXIT 36)
"A" 172+15.28 P.O.T. = "B" 172+15.28 P.O.T.	IR-15-CL 36.80	EQUATION
"B" 197+80.00 P.O.T.	IR-15-CL 37.28	TROPICANA WASH B-795 QUAD 8'X7' RCB
"B" 202+08.18 P.O.T.	IR-15-CL 37.36	FLY-OVER RAMP I-796R (CONTR 2403)
"B" 204+08.21 P.O.T.	IR-15-CL 37.40	TROPICANA INTERCHANGE I-796 (CONTR 2403) (EXIT 37)
"B" 254+29.63 P.O.T.	IR-15-CL 38.35	DUNES-FLAMINGO INTERCHANGE I-1745 SR 592 (EXIT 38)
"B" 256+35.00 P.O.T.	IR-15-CL 38.39	I-798A FLAMINGO BRIDGE TO BE DEMOLISHED
"B" 260+75.01 P.O.T.	IR-15-CL 38.47	FLAMINGO WASH B-799 (6) 10'X8' RCB
"B" 264+80.00 P.O.T.	IR-15-CL 38.55	WASH B-800 QUAD 10'X8' RCB
"B" 273+50.00 P.O.T.	IR-15-CL 38.72	INDUSTRIAL RD GRADE SEPARATION H-804 (OLD FR 403 CL)
" 280+96.37 P.O.T.	IR-15-CL 38.86	U.P. RAILROAD (OP) G-805N SOUTH LAS VEGAS
"B" 296+99.00 P.O.T.	IR-15-CL 39.16	SPRING MOUNTAIN INTERCHANGE I-806 SR 591 (EXIT 39)
"B" 312+61.52 P.O.C.	IR-15-CL 39.46	DESERT INN GRADE SEPARATION H-2011 (CONTR 2593)
"B" 364+50.00 P.O.T. = "B" 364+50.59 P.O.T.	IR-15-CL 40.44	EQUATION
"B" 370+43.70 P.O.T.	IR-15-CL 40.55	SAHARA INTERCHANGE I-837M SR 589 (EXIT 40)

MILEPOST SUMMARY

STATION	MILEPOST	DESCRIPTION
"B" 403+88.90 P.O.T.	IR-15-CL 41.18	OAKEY GRADE SEPARATION H-933
"B" 503+63.40 P.O.C.	IR-15-CL 43.07	U.P. RAILROAD (OP) G-941
"B" 508+88.84 P.O.C.	IR-15-CL 43.17	BONANZA GRADE SEPARATION H-942 SR 579
"B" 515+54.75 P.O.T.	IR-15-CL 43.30	F STREET GRADE SEPARATION H-1339
"B" 524+27.45 P.O.C.	IR-15-CL 43.46	D STREET INTERCHANGE I-1340 (EXIT 43A)
"B" 531+60.94 P.O.C.	IR-15-CL 43.60	WASHINGTON INTERCHANGE I-943 SR 578 (EXIT 43B)
"B" 559+60.62 P.O.C.	IR-15-CL 44.13	OWENS GRADE SEPARATION H-948
"B" 572+64.09 P.O.C.	IR-15-CL 44.38	U.P. RAILROAD (UP) G-949 N LAS VEGAS
"B" 574+04.28 P.O.C. = "BE" 574+04.28 P.O.C.	IR-15-CL 44.41	EQUATION
"BE" 590+31.02 P.O.C.	IR-15-CL 44.72	LAKE MEAD BLVD INTERCHANGE I-950 (EXIT 45)
"BE" 595+02.45 P.O.C.	IR-15-CL 44.80	RAMP "F" (OP) I-952
"BE" 612+98.58 P.O.T. = "FWY" 612+98.58 P.O.T.	IR-15-CL 45.14	EQUATION
"FWY" 620+43.00 P.O.T.	IR-15-CL 45.29	CAREY GRADE SEP & U.P. RAILROAD (OP) G-953
"FWY" 640+00.00 P.O.T.	IR-15-CL 45.66	END PROJECT SP1-015-1(20)

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

I-15 MEDIAN WIDENING

LOCATION SKETCH

ROAD DESIGN DIVISION		
PRINCIPAL DESIGNER	TOM GRECO	(702) 687-5588
PARSONS BRINCKERHOFF	WILLIAM HORDAN	(702) 697-8128

PB PARSONS BRINCKERHOFF

DESIGN BY	G.T.D.
DRAWN BY	R.T.C.
CHECKED BY	B.P.P.
REVIEWED BY	W.I.H.

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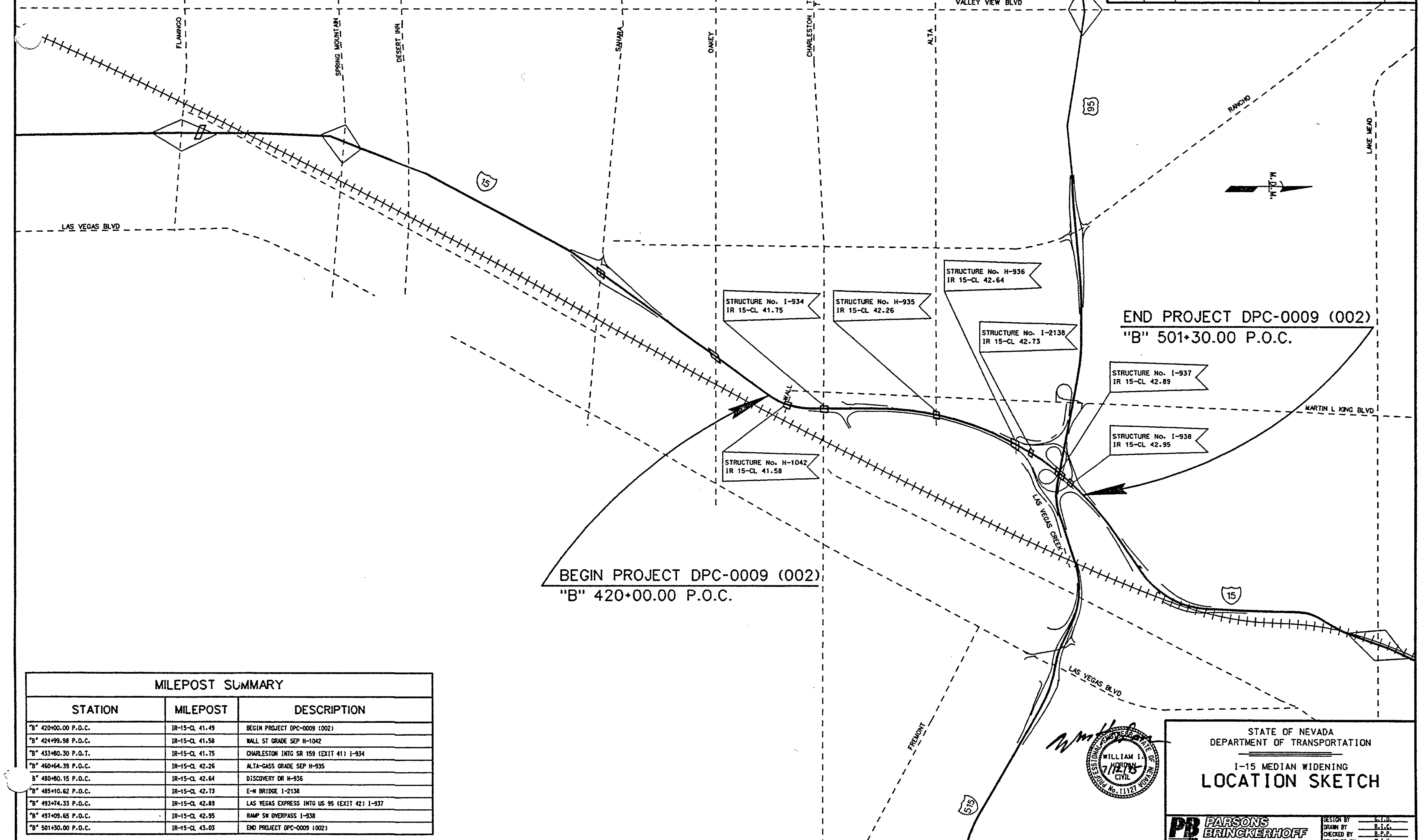
July 11, 1995

FED. RD. REG. NO.	STATE	PROJECT NO.	COUNTY	SHEET NO.
9	NEVADA	DPC-0009(002)	CLARK	1C



MILEPOST SUMMARY		
STATION	**MILEPOST**	**DESCRIPTION**
"B" 420+00.00 P.O.C.	IR-15-CL 41.49	BEGIN PROJECT DPC-0009 (002)
"B" 424+99.98 P.O.C.	IR-15-CL 41.58	WALL ST GRADE SEP H-1042
"B" 433+80.30 P.O.T.	IR-15-CL 41.75	CHARLESTON INTG SR 159 (EXIT 41) I-934
"B" 460+64.39 P.O.C.	IR-15-CL 42.26	ALTA-GASS GRADE SEP H-935
"B" 480+80.15 P.O.C.	IR-15-CL 42.64	DISCOVERY DR H-936
"B" 485+10.62 P.O.C.	IR-15-CL 42.73	E-N BRIDGE I-2138
"B" 493+74.33 P.O.C.	IR-15-CL 42.89	LAS VEGAS EXPRESS INTG US 95 (EXIT 42) I-937
"B" 497+09.65 P.O.C.	IR-15-CL 42.95	RAMP SW OVERPASS I-938
"B" 501+30.00 P.O.C.	IR-15-CL 43.03	END PROJECT DPC-0009 (002)

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

I-15 MEDIAN WIDENING

LOCATION SKETCH

PARSONS BRINCKERHOFF

DESIGN BY	G.T.D.
DRAWN BY	R.T.C.
CHECKED BY	B.P.P.
REVIEWED BY	W.I.H.

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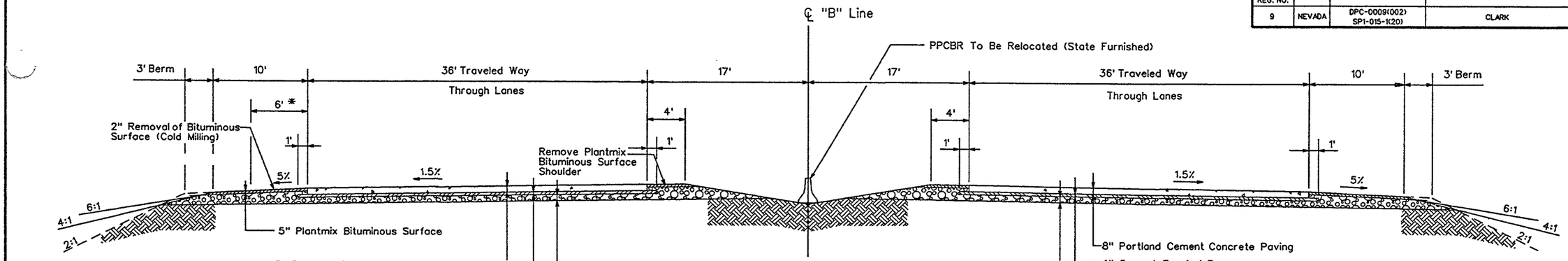
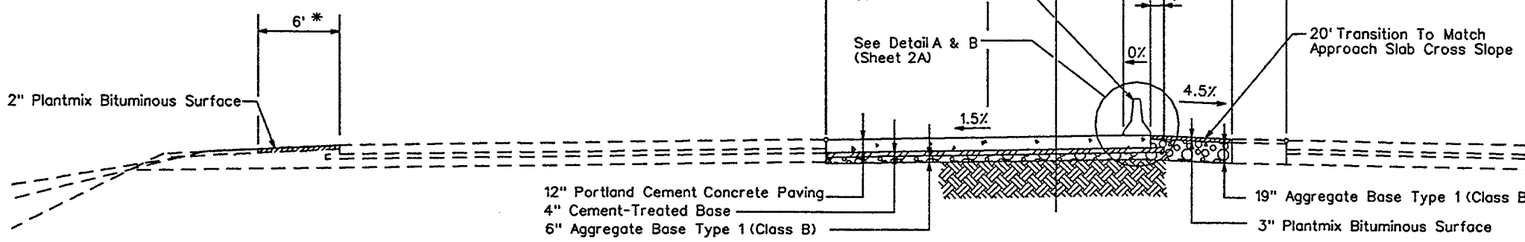
July 11, 1995

FED. RD. REG. NO.	STATE	PROJECT NO.	COUNTY	SHEET NO.
9	NEVADA	DPC-0009(002) SP1-015-1(20)	CLARK	2



AS CONSTRUCTED

*Mill and Pave 2" Plantmix Bituminous Surface
"B" 364+50 To "B" 368+70
"B" 371+50 To "B" 378+50
"B" 410+50 To "B" 424+00
"B" 426+00 To "B" 432+80
"B" 435+00 To "B" 444+50
"B" 495+20 To "B" 495+95
"B" 497+90 To "B" 500+90



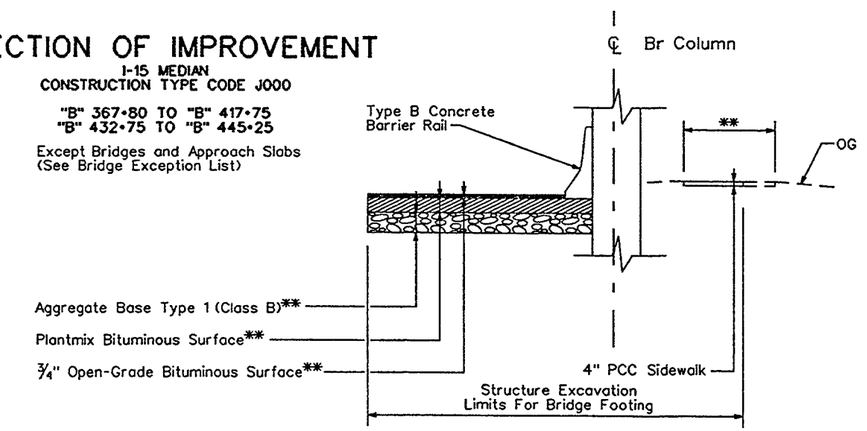
BRIDGE EXCEPTION LIST		
NB "B" STA TO "B" STA	SB "B" STA TO "B" STA	BRIDGE NO. (INCLUDING APPROACH SLAB)
369+24.11 TO 371+79.55	369+12.11 TO 371+67.55	I-837 SAHARA AVE
402+17.92 TO 405+71.93	402+05.92 TO 405+59.93	H-933 OAKEY BLVD
423+96.95 TO 426+03.11	423+96.95 TO 426+03.11	I-1042 WALL ST
432+70.72 TO 434+89.88	432+70.72 TO 434+89.88	I-934 CHARLESTON BLVD
459+69.51 TO 461+61.84	459+68.25 TO 461+60.57	H-935 ALTA AVE
479+64.78 TO 482+12.34	479+52.78 TO 482+00.34	H-936 DISCOVERY DR
484+34.32 TO 485+88.94	484+25.11 TO 485+78.63	I-2138 E-N RAMP
492+32.07 TO 495+33.06	492+20.01 TO 495+21.04	I-937 U.S. 95
496+21.86 TO 498+04.03	496+17.74 TO 497+99.58	I-938 RAMP N.W.
502+71.14 TO 504+49.14	502+71.14 TO 504+49.14	G-941 UPRR
507+10.00 TO 510+68.00	507+10.00 TO 510+68.00	H-942 BONANZA RD
514+51.57 TO 516+59.57	514+51.57 TO 516+59.57	H-1339 F ST
523+15.16 TO 525+40.16	523+15.16 TO 525+40.16	I-1340 D ST
530+35.16 TO 532+87.16	530+35.16 TO 532+87.16	I-943 WASHINGTON ST
589+52.21 TO 591+14.21	589+52.21 TO 591+14.21	I-950 LAKE MEAD BLVD
594+54.64 596+22.64		I-952 RAMP F (NB ONLY)

SECTION OF IMPROVEMENT

I-15 MEDIAN
CONSTRUCTION TYPE CODE J000

"B" 367+80 TO "B" 417+75
"B" 432+75 TO "B" 445+25

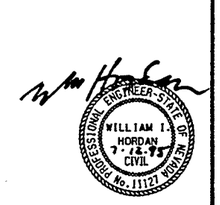
Except Bridges and Approach Slabs (See Bridge Exception List)



TYPICAL STREET SECTION REPLACEMENT

SAHARA AVENUE
OAKEY BOULEVARD
WALL STREET
CHARLESTON BOULEVARD

** Match Existing



STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

I-15 MEDIAN WIDENING

TYPICAL SECTIONS AND SPECIAL DETAILS

PARSONS BRINCKERHOFF

DESIGN BY	G.L.D.
DRAWN BY	R.T.C. / F.A.B.
CHECKED BY	B.P.P.
REVIEWED BY	W.I.H.

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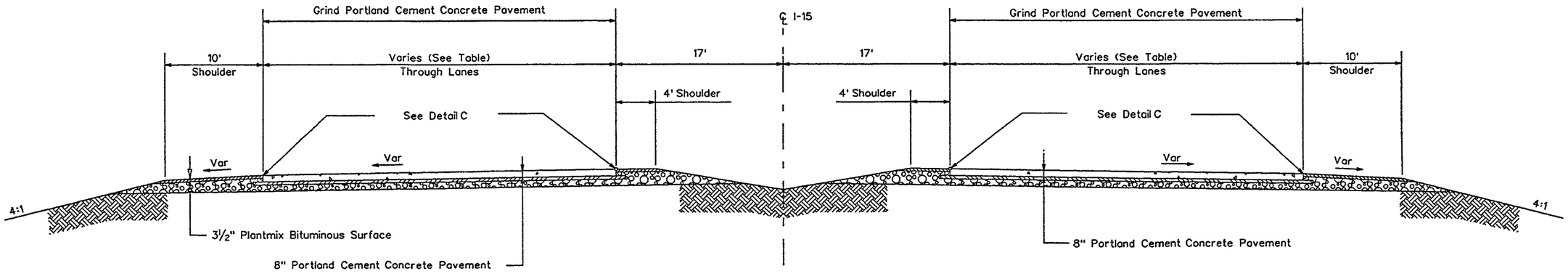
July 11, 1995

FED. RD. REG. NO.	STATE	PROJECT NO.	COUNTY	SHEET NO.
9	NEVADA	DPC-0009(002) SP1-015-1(20)	CLARK	2A



SOUTHBOUND

NORTHBOUND

SECTION OF IMPROVEMENT

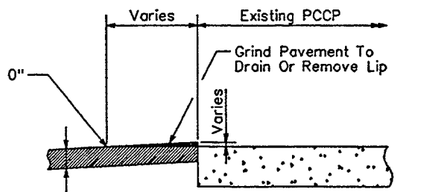
I-15

"B" 70+00 TO "B" 640+00

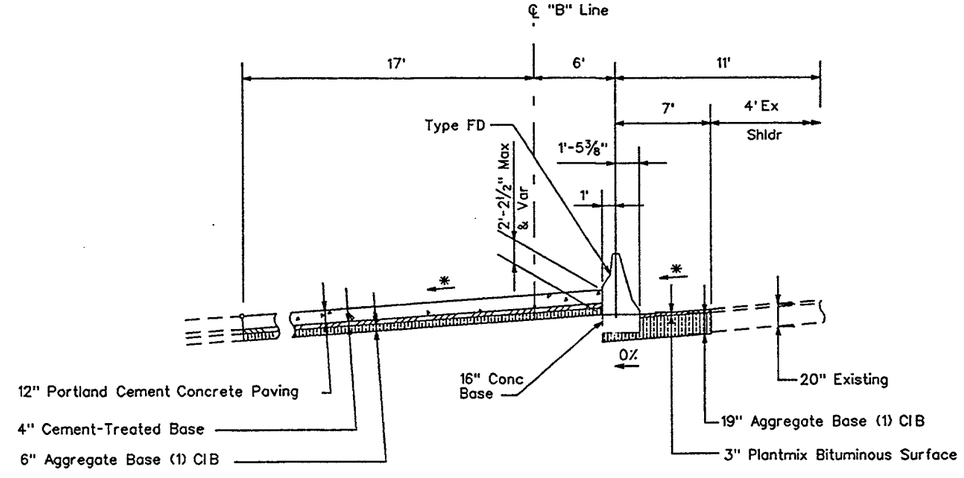
FOR LOCATIONS SEE TABLE

Except Bridges And Approach Slabs
(See Bridge Exception List)

STA TO STA	NB LANES	SB LANES
70+00 TO 273+30	24 FT	24 FT
364+50 TO 640+00	36 FT	-
364+50 TO 585+00	-	36 FT
585+00 TO 640+00	-	24 FT



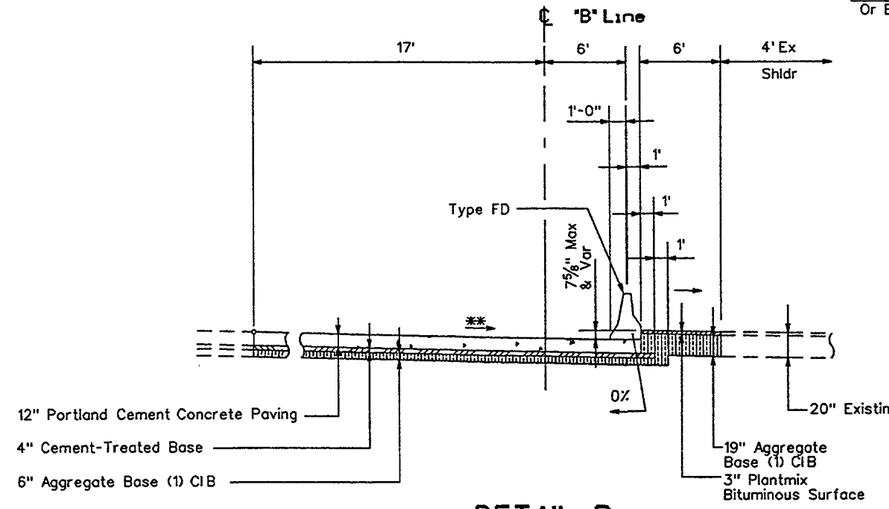
DETAIL C



DETAIL A

"B" 417+75 TO "B" 432+75

*Match Existing Cross Slope
As Constructed (1½% ± To 7% ±)



DETAIL B

"B" 445+25 TO "B" 501+30

**Match Existing Cross Slope
As Constructed (1½% ± To 2% ±)

NOTE:

For Detour Typical Sections
See Sheets 21, 26, and TC-95

WILLIAM I. HORDAN CIVIL No. 11127 STATE OF NEVADA PROFESSIONAL ENGINEER

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

I-15 MEDIAN WIDENING

TYPICAL SECTIONS AND SPECIAL DETAILS

PB PARSONS BRINCKERHOFF

DESIGN BY	G.I.U.
DRAWN BY	R.T.C. / F.A.B.
CHECKED BY	B.P.P.
REVIEWED BY	W.I.H.

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July 11, 1995

FED. RD. REG. NO.	STATE	PROJECT NO.	COUNTY	SHEET NO.
9	NEVADA	DPC-0009(002) SP1-015-1(20)	CLARK	3

SYMBOL	DESCRIPTION
AB	AGGREGATE BASE
ABN	ABANDON
AC	ASPHALT CONCRETE
ACP	ASBESTOS CEMENT PIPE
ADJ	ADJUST
ADT	AVERAGE DAILY TRAFFIC
AHD	AHEAD
ALT	ALTERNATE
APPR	APPROACH
ASSY	ASSEMBLY
AVE	AVENUE
BC	BACK OF CURB
BK	BACK
BKF	BACKFILL
BLDG	BUILDING
BLVD	BOULEVARD
BM	BENCHMARK
BR	BRIDGE
BS	BACKSLOPE
C/A	CONTROL OF ACCESS
C TO C	CENTER TO CENTER
C & G	CURB AND GUTTER
CBR	CONCRETE BARRIER RAIL
CC	CLARK COUNTY
CCBM	CLARK COUNTY BENCHMARK
CAAP	CORRUGATED ALUMINUM ARCH PIPE
CF	CUBIC FEET
cfs	CUBIC FEET PER SECOND
CHNL	CHANNEL
CI	CLASS
CL	CHAIN LINK
CLR	CLEAR, CLEARANCE
CMAP	CORRUGATED METAL ARCH PIPE
CMP	CORRUGATED METAL PIPE
CO	COUNTY
CONC	CONCRETE
COND	CONDUIT
CONN	CONNECTOR
CONST	CONSTRUCT(ION)
COORD	COORDINATE
COR	CORNER
CP	CONCRETE PIPE
CTB	CEMENT TREATED BASE
CU	CUBIC
CULV	CULVERT
CY	CUBIC YARDS
℄	CENTERLINE
△	DELTA, ANGLE POINT
D.I.P.	DUCTILE IRON PIPE
DBL	DOUBLE
DEG	DEGREE
DET	DETOUR
DI	DROP INLET
DIA	DIAMETER
DIST	DISTANCE
DR	DRIVE
DWY	DRIVEWAY
E	EAST
EA	EACH
EASE	EASEMENT
ELEC	ELECTRICAL
ELEV	ELEVATION
EMB	EMBANKMENT
E.O.C.	EDGE OF CONCRETE
E.P.	EDGE OF PAVEMENT
EQ	EQUATION
E.S.	EDGE OF SHOULDER
EXC	EXCAVATION
EXIST	EXISTING

SYMBOL	DESCRIPTION
F ACCT or FA	FORCE ACCOUNT
F.B.D.	FLAT BOTTOM DITCH
FDN	FOUNDATION
FC	FACE OF CURB
F & C	FRAME AND COVER
FG	FINISHED GRADE
F & G	FRAME AND GRATE
FH	FIRE HYDRANT
FLR	FLARE
FL	FLOW LINE
FR	FRONTAGE ROAD
FS	FILL SLOPE
FT	FOOT (FEET)
FWY	FREEWAY
GAL	GALLON
GR	GUARDRAIL
HB	RAILROAD SWITCH POINT HEAD BLOCK
HGL	HYDRAULIC GRADE LINE
HORIZ	HORIZONTAL
HW	HEADWALL
HWY	HIGHWAY
INV	INVERT
JT	JOINT
JUNC	JUNCTION
L	LENGTH OF CURVE
LB	POUND
LF	LINEAR FEET
LN	LANE
LOC	LOCATION
LOL	LAYOUT LINE
LS	LUMP SUM
LT	LEFT
LVVWD	LAS VEGAS VALLEY WATER DISTRICT
MATL	MATERIAL
MAX	MAXIMUM
MDM	MOUNT DIABLO MERIDIAN
MED	MEDIAN
MES	METAL END SECTION
MH	MANHOLE
MI	MILE(S)
MIN	MINIMUM
MISC	MISCELLANIOUS
MJ	MECHANICAL JOINT
MOD	MODIFIED OR MODIFY
MON	MONUMENT
MP	MILE POST
MPH	MILES PER HOUR
NDOT	NEVADA DEPARTMENT OF TRANSPORTATION
N	NORTH
NO	NUMBER
O.C.	ON CENTER
OHCTV	OVERHEAD CABLE TELEVISION
OHP	OVERHEAD POWER
OHT	OVERHEAD TELEPHONE
P OR UGP	UNDERGROUND POWER LINE
PB	PULL BOX
PC	POINT OF CURVE
PCC	POINT OF COMPOUND CURVE
PCCP	PORTLAND CEMENT CONCRETE PAVING
PED	PEDESTRIAN
PG	PROPOSED GRADE
PI	POINT OF INTERSECTION
P/L	PROPERTY LINE
P.O.C.	POINT ON CURVE
P.O.T.	POINT ON TANGENT
PPCBR	PORTABLE PRECAST CONCRETE BARRIER RAIL
PP	POWER POLE
PROP	PROPOSED
PROP. LTD. PART.	PROPERTY LIMITED PARTNERSHIP

SYMBOL	DESCRIPTION
PSI	POUNDS PER SQUARE INCH
PT	POINT OF TANGENCY
PU	PERFORATED UNDERDRAIN
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
Q	FLOW
R	RADIUS
R.	RANGE
RCB	REINFORCED CONCRETE BOX CULVERT
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RDWY	ROADWAY
RLS	REGISTERED LAND SURVEYOR
RR	RAILROAD
RT	RIGHT
RTE	ROUTE
RW	RETAINING WALL
R/W	RIGHT OF WAY
S	SOUTH
SCCP	STEEL CYLINDER CONCRETE PIPE
SD	STORM DRAIN
SEC	SECTION
SHLDR	SHOULDER
SHT	SHEET
SQ	SQUARE
SS	SANITARY SEWER
STA	STATION
STD	STANDARD
ST	STREET
STL	STEEL
STR	STRUCTURE
SURF	SURFACING, SURFACE
S/W	SIDEWALK
SY	SQUARE YARD
T.	TOWNSHIP
T OR TEL	TELEPHONE
TAN	TANGENT
TCB	TRAFFIC CONTROL BOX
TEMP	TEMPORARY
T.O.	RAILROAD TURNOUT SWITCH
TS	TRAFFIC SIGNAL
TYP	TYPICAL
TYP SEC	TYPICAL SECTION
UD	UNDERDRAIN
UP	UNDERPASS
V	DESIGN SPEED
VAR	VARIABLE
VC	VERTICAL CURVE
VERT	VERTICAL
W	WEST
WM	WATER METER
WT	WEIGHT
XING	CROSSING
X SEC	CROSS SECTION
YD	YARD

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

I-15 MEDIAN WIDENING

LEGEND

ABBREVIATIONS

PARSONS BRINCKERHOFF

DESIGN BY
DRAWN BY R.J.C.
CHECKED BY
REVIEWED BY

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July 11, 1995

FED. RD. REG. NO.	STATE	PROJECT NO.	COUNTY	SHEET NO.
9	NEVADA	DPC-0009(002) SP1-015-1(20)	CLARK	3A

SYMBOL	DESCRIPTION
2	BENCHMARK
23	CALCULATED CONTROL POINT
29	MONUMENTED CONTROL POINT
	TEST BORING HOLE
	CONCRETE BARRIER RAIL (DOUBLE FACE)
	CONCRETE BARRIER RAIL (SINGLE FACE)
	CONCRETE BARRIER RAIL (SINGLE FACE) AT M.S.E. WALL WITH CAP
	BRIDGE RAIL
	GALVANIZED GUARDRAIL
	IMPACT ATTENUATOR
	RAILROAD
	PROPOSED BRIDGE STRUCTURE
	EXISTING BUILDING
	EXISTING METAL POST
	FENCE GATE
x	FENCE
	TREE
	HEDGE
2100	CONTOUR WITH ELEVATION
	INTERMEDIATE CONTOUR
	CONCRETE CURB & GUTTER
	DRIVEWAY - CURB CUT
	PROPOSED IMPROVEMENT
	FUTURE IMPROVEMENT
	EXISTING ROADWAY
	MONUMENT
R 19 E / R 20 E	RANGE LINE
SEC	SECTION LINE
℄	CENTER LINE
℘	PROPERTY LINE OR RIGHT OF WAY LINE
R/W	RIGHT OF WAY WITH & WITHOUT FENCE
R/W	RIGHT OF WAY AND CONTROL OF ACCESS WITH FENCE
	CONTROL OF ACCESS WITH FENCE
R/W	RIGHT OF WAY AND CONTROL OF ACCESS WITHOUT FENCE
	CONTROL OF ACCESS WITHOUT FENCE
	EASEMENT LINE

SYMBOL	DESCRIPTION
24" W	WATER (SIZE)
WM	WATER METER
WV	EXISTING WATER VALVE
	NEW WATER VALVE
FH	EXISTING FIRE HYDRANT
FH	NEW FIRE HYDRANT
W MH	WATER MANHOLE
W	WATER LINE POINT OR MARKER
IV	IRRIGATION VALVE
4" G	GAS (SIZE)
GM	GAS METER
GV	GAS VALVE
G	GAS LINE POINT OR MARKER
P	POWER
UGP	UNDERGROUND POWER
OHP	OVERHEAD POWER
P	POWER LINE POINT OR MARKER
T	TELEPHONE
OHT	OVERHEAD TELEPHONE
T MH	TELEPHONE MANHOLE
T	TELEPHONE LINE POINT OR MARKER
SS	SANITARY SEWER
SS MH	SANITARY SEWER MANHOLE
SS	SANITARY SEWER POINT OR MARKER
SD	STORM DRAIN
SD MH	STORM DRAIN MANHOLE
SD	STORM DRAIN POINT OR MARKER
CTV	CABLE TELEVISION
OHCTV	OVERHEAD CABLE TELEVISION
TV	CABLE TV POINT OR MARKER
FO	FIBER OPTICS
FO	FIBER OPTICS LINE POINT OR MARKER
	UTILITY STUB-OUT
PP	EXISTING POWER POLE
PP	NEW POWER POLE
H	H = POLE IDENTIFICATION
	GUY WIRE
	GUY POLE

SYMBOL	DESCRIPTION
	CONCRETE
	COMPOSITE SURFACE TO BE REMOVED
	MECHANICALLY STABILIZED EARTH BACKFILL
	GRANULAR BACKFILL
	SELECT BORROW EMBANKMENT
	UNDISTURBED SOIL
CB	CATCH BASIN
D.I.	DROP INLET
	DROP INLET WITH CONCRETE APRON
	HEADWALLS
	FLAT BOTTOM DITCH
	V-DITCH
	ROCK LINED DITCH
4:1	GROUND SLOPE

SYMBOL	DESCRIPTION
	SIGN MOUNTED ON BUTERFLY SIGN STRUCTURE
	EXISTING SIGN MOUNTED ON POST
	NEW SIGN MOUNTED ON POST
	EXIST GROUND MOUNTED SIGN (DUAL SUPPORT)
	NEW GROUND MOUNTED SIGN (DUAL SUPPORT)
	SIGN MOUNTED ON BRIDGE STRUCTURE
	EXISTING STREET NAME SIGN MOUNTED ON POST
	NEW STREET NAME SIGN MOUNTED ON POST
	SIGN MOUNTED ON EXISTING SIGN STRUCTURE
	SIGN MOUNTED ON SIGN STRUCTURE
	ILLUMINATED SIGN STRUCTURE
	EXISTING LIGHT POLE
	NEW LIGHT POLE
	EXISTING LUMINAIRE
	NEW LUMINAIRE
	EXISTING UNDERDECK LUMINAIRE
	NEW UNDERDECK LUMINAIRE
X / Y	X = FIXTURE NUMBER Y = CIRCUIT NUMBER
	CONDUIT
Z	Z = CONDUIT RUN NUMBER
PB	EXISTING PULL BOX
PB	NEW PULL BOX
JB	EXISTING JUNCTION BOX
JB	NEW JUNCTION BOX
	EXISTING SPECIAL JUNCTION BOX IN MEDIAN BARRIER JUNCTION BOX (A)
	NEW SPECIAL JUNCTION BOX IN MEDIAN BARRIER JUNCTION BOX (A)
	LOOP DETECTOR
	TRAFFIC SIGNAL CONTROLLER LIGHTING CONTROL CENTER
	TRAFFIC SIGNAL
	MAST ARM SIGNAL POLE
---- ---- ----	TRAFFIC LANE LINE
	TRAFFIC DRUM
	TYPE III B BARRICADE
	TRAFFIC DIRECTIONAL ARROW
	TEMPORARY DETOUR PAVEMENT

PROFESSIONAL ENGINEER - STATE OF NEVADA
WILLIAM I. HORDAN
7/12/95
CIVIL
No. 11127

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

I-15 MEDIAN WIDENING
LEGEND
SYMBOLS

PB PARSONS BRINCKERHOFF

DESIGN BY -
DRAWN BY R.T.C.
CHECKED BY -
REVIEWED BY -

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July 11, 1995

FED RD. REG. NO.	STATE	PROJECT NO.	COUNTY	SHEET NO.
9	NEVADA	SP1-015-1(20)	CLARK	38

ESTIMATE OF SURFACING QUANTITIES

NOTES: QUANTITIES SHOWN IN THE SUMMARIES FOR SURFACE MATERIALS ARE THEORETICAL AND USED FOR ESTIMATING PURPOSES ONLY. ACTUAL SPREADS SHALL BE VARIED AS REQUIRED TO OBTAIN THE DEPTHS OF THE VARIOUS COURSES SHOWN ON THE TYPICAL SECTION.

THE QUANTITIES HAVE BEEN CALCULATED USING A SPECIFIC GRAVITY OF 2.75 WITH ASPHALT CEMENT PERCENTAGES OF 4 1/2% FOR THE DENSE GRADED. THE MATERIAL SOURCE PROVIDED (PIT # CL 02-01) HAS A SPECIFIC GRAVITY OF 2.51. THEREFORE IF THE CONTRACTOR USES THIS AGGREGATE SOURCE THE QUANTITIES WILL BE ALTERED ACCORDINGLY.

FLAMINGO BRIDGE DEMOLITION

ITEM	TOTAL	UNIT
TYPE 1 CLASS B AGGREGATE BASE (QUANTITIES INCLUDE 8% BY WEIGHT FOR MOISTURE CONTENT)		
8" DEPTH		
MAINLINE I-15 MEDIAN CROSSOVER 8633 SQ YD @ 0.50 TONS PER SQ YD (WIDTH VARIES-VERTICAL SLOPES) ("B" 235+40.34 TO "B" 264+59.98)	4317.0	TONS
SLOPE ALLOWANCE		
8" DEPTH	363.0	TONS
MAINLINE MEDIAN CROSSOVER SLOPE 10:1 - 62.09 STA. @ 5.63 TONS PER STA.		
TOTAL	4680.0	TONS
USE TOTAL	4680.0	TONS

PLANTMIX BITUMINOUS SURFACE AGGREGATE (TYPE 2)

ITEM	TOTAL	UNIT
3" DEPTH		
MAINLINE I-15 MEDIAN CROSSOVER 8633 SQ YD @ 0.18 TONS PER SQ YD (WIDTH VARIES-VERTICAL SLOPES) ("B" 235+40.34 TO "B" 264+59.98	1554.0	TONS
TOTAL	1554.0	TONS
USE TOTAL	1560.0	TONS

THEORETICAL APPLICATION OF SURFACING MATERIALS

LIQUID ASHPHALT, TYPE MC-70-PRIME COAT (BETWEEN PLANTMIX SURFACE & TYPE 1 CLASS B AGGREGATE BASE)	.375	GAL PER SQ YD
ASPHALT CEMENT, GRADE AC-30 (PLANTMIX BITUMINOUS SURFACE)	4.5	PERCENT
SPECIFIC GRAVITY USED FOR AGGREGATE	2.75	
MINERAL FILLER	1.5	PERCENT
SAND BLOTTER	10	LBS PER SQ YD

GENERAL NOTES:

1. ALIGNMENT AND GRADES ARE SUBJECT TO ADJUSTMENT BY THE ENGINEER. FIELD ADJUSTMENTS OF LINE OR GRADE SHALL NOT REDUCE SIGHT DISTANCE BELOW MINIMUM REQUIREMENTS OF ADOPTED DESIGN.
2. DEPTH OF BASE AND SURFACE IS COMPACTED THICKNESS.
3. THE STATE FORCES SHALL FURNISH AND INSTALL ALL MILE POSTS.
4. CONSTRUCTION SIGNS AND BARRICADES SHALL CONFORM TO THE REQUIREMENTS OF THE M.U.T.C.D., 1988 EDITION, AND THE NEVADA SUPPLEMENT THERETO.
5. ALL HIGHWAY SIGNS INAPPROPRIATE TO THE TRAFFIC CONTROL ARE TO BE COVERED AS DIRECTED BY THE ENGINEER.
6. FOR TRAFFIC CONTROL NOT SHOWN REFER TO NEVADA STANDARD SHEET NO'S. T-35.1.1 THROUGH T-35.1.6 AND THE M.U.T.C.D., 1988 EDITION.
7. ALL EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTORS RESPONSIBILTY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION.
8. ALL QUANTITIES ARE IN-PLACE VOLUMES. 10% SHRINK FACTOR USED.

REGISTERED PROFESSIONAL ENGINEER STATE OF NEVADA ROGER J. PATTON CIVIL No. 7798

SUMMARY OF EARTHWORK

ITEM	QUANTITY	UNIT
ROADWAY EXCAVATION		
I-15 CROSSOVER DETOUR	2,800	C.Y.
FLAMINGO BRIDGE (WEST ABUTMENT)	730	C.Y.
FLAMINGO BRIDGE (EAST ABUTMENT)	340	C.Y.
TOTAL	3,870	C.Y.

FED. RD. REG. NO.	STATE	PROJECT NO.	COUNTY	SHEET NO.
9	NEVADA	DPC-0009(002) SP1-015-1(20)	CLARK	3C

ESTIMATE OF SURFACING QUANTITIES

NOTES: QUANTITIES SHOWN IN THE SUMMARIES FOR SURFACE MATERIALS ARE THEORETICAL AND USED FOR ESTIMATING PURPOSES ONLY. ACTUAL SPREADS SHALL BE VARIED AS REQUIRED TO OBTAIN THE DEPTHS OF THE VARIOUS COURSES SHOWN ON THE TYPICAL SECTION SHEET.

THE QUANTITIES HAVE BEEN CALCULATED USING A SPECIFIC GRAVITY OF 2.75 WITH ASPHALT CEMENT PERCENTAGES OF 4½% FOR DENSE GRADED. THE MATERIAL SOURCE PROVIDED (PIT # CL-02-01) HAS A SPECIFIC GRAVITY OF 2.51. THEREFORE IF THE CONTRACTOR USES THIS AGGREGATE SOURCE THE QUANTITIES WILL BE ALTERED ACCORDINGLY.

BRIDGE AND APPROACH SLAB LENGTHS HAVE BEEN DEDUCTED FROM STATION LENGTHS

I-15 MEDIAN WIDENING

ITEM		TOTAL	UNIT
TYPE I CLASS B AGGREGATE BASE (QUANTITIES INCLUDE 8% BY WEIGHT FOR MOISTURE CONTENT)			
6" DEPTH			
I-15 MAINLINE AND MEDIAN SHOULDER (SOUTHBOUND) 99.16 STA @ 100.00 TONS PER STA (24.0' WIDTH-VERTICAL SLOPES) ('B' 367+80 TO 'B' 417+75; 'B' 432+75 TO 'B' 501+30)		9916	TON
I-15 MAINLINE AND MEDIAN SHOULDER (SOUTHBOUND) 12.94 STA @ 91.67 TONS PER STA (22.0' WIDTH-VERTICAL SLOPES) ('B' 417+75 TO 'B' 432+75)		1186	TON
E-N RAMP DETOUR BND 8.71 STA @ 1.21 TONS PER STA (VARIABLE WIDTH - VERTICAL SLOPE) ('BND' 11+94 TO 'BND' 20+65)		1055	TON
E-N RAMP DETOUR BSD 7.92 STA @ 1.43 TONS PER STA (VARIABLE WIDTH - VERTICAL SLOPE) ('BSD' 12+28 TO 'BSD' 20+20)		1131	TON
19" DEPTH			
I-15 SHOULDER (NORTHBOUND) 99.16 STA @ 81.08 TONS PER STA (6.0' WIDTH-VERTICAL SLOPES) ('B' 367+80 TO 'B' 417+75; 'B' 432+75 TO 'B' 501+30)		8040	TON
I-15 SHOULDER (NORTHBOUND) 12.94 STA @ 83.28 TONS PER STA (5.55' WIDTH-VERTICAL SLOPES) ('B' 417+75 TO 'B' 432+75)		1077	TON
	TOTAL	22405	TON
	USE TOTAL	22410	TON
PLANTMIX CEMENT TREATED BASE AGGREGATE (WET) (QUANTITIES INCLUDE 8% BY WEIGHT FOR MOISTURE CONTENT)			
4" DEPTH			
I-15 MAINLINE AND MEDIAN SHOULDER (SOUTHBOUND) 99.16 STA @ 68.75 TONS PER STA (25.0' WIDTH-VERTICAL SLOPES) ('B' 367+80 TO 'B' 417+75; 'B' 432+75 TO 'B' 501+30)		6817	TON
I-15 MAINLINE AND MEDIAN SHOULDER (SOUTHBOUND) 12.94 STA @ 60.50 TONS PER STA (22.0' WIDTH-VERTICAL SLOPES) ('B' 417+75 TO 'B' 432+75)		789	TON
	TOTAL	7600	TON
	USE TOTAL	7600	TON
PORTLAND CEMENT FOR CEMENT TREATED BASE			
4.0% OF 7660 TONS	TOTAL	306	TON
	USE TOTAL	310	TON
PLANTMIX BITUMINOUS SURFACE AGGREGATE (TYPE 2)			
2" DEPTH			
I-15 SHOULDER (SOUTHBOUND) 44.75 STA @ 7.69 TONS PER STA (6.0' WIDTH-VERTICAL SLOPES) ('B' 364+50 TO 'B' 500+90)		344	TON
3" DEPTH			
I-15 SHOULDER (NORTHBOUND) 112.10 STA @ 11.56 TONS PER STA (6.0' WIDTH-VERTICAL SLOPES) ('B' 367+80 TO 'B' 501+30)		1295	TON
E-N RAMP DETOUR BND 8.58 STA @ 65.62 TONS PER STA (VARIABLE WIDTH - VERTICAL SLOPE) ('B' 482+44 TO 'B' 491+02)		563	TON
E-N RAMP DETOUR BND 9.02 STA @ 66.54 TONS PER STA (VARIABLE WIDTH - VERTICAL SLOPE) ('B' 481+75 TO 'B' 490+77)		600	TON
3½" DEPTH			
NE LINE 1.51 STA @ 17.98 TONS PER STA (VARIABLE WIDTH - VERTICAL SLOPE) ('NE' 11+50 TO 'NE' 13+01)		27	TON
EXPR LINE 4.28 STA @ 17.98 TONS PER STA (VARIABLE WIDTH - VERTICAL SLOPES) ('EXPR' 67+17 TO 'EXPR' 71+45)		77	TON
WN LINE 2.00 STA @ 17.98 TONS PER STA (VARIABLE WIDTH - VERTICAL SLOPES) ('WN' 0+00 TO 'WN' 2+00)		36	TON
	TOTAL	2942	TON
	USE TOTAL	2950	TON

PROFESSIONAL ENGINEER - STATE OF NEVADA - WILLIAM I. HORDAN - CIVIL - No. 11127

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July 12, 1995

ESTIMATE OF SURFACING QUANTITIES

NOTES: QUANTITIES SHOWN IN THE SUMMARIES FOR SURFACE MATERIALS ARE THEORETICAL AND USED FOR ESTIMATING PURPOSES ONLY. ACTUAL SPREADS SHALL BE VARIED AS REQUIRED TO OBTAIN THE DEPTHS OF THE VARIOUS COURSES SHOWN ON THE TYPICAL SECTION SHEET.

THE QUANTITIES HAVE BEEN CALCULATED USING A SPECIFIC GRAVITY OF 2.75 WITH ASPHALT CEMENT PERCENTAGES OF 4 1/2% FOR DENSE GRADED. THE MATERIAL SOURCE PROVIDED (PIT # CL-02-01) HAS A SPECIFIC GRAVITY OF 2.51. THERFORE IF THE CONTRACTOR USES THIS AGGREGATE SOURCE THE QUANTITIES WILL BE ALTERED ACCORDINGLY.

BRIDGE AND APPROACH SLAB LENGTHS HAVE BEEN DEDUCTED FROM STATION LENGTHS

I-15 MEDIAN WIDENING

THEORETICAL APPLICATION OF SURFACING MATERIALS

EMULSIFIED ASPHALT, TYPE SS-1h (DILUTED) - TACK COAT (EXISTING PLANTMIX BITUMINOUS SURFACE)	0.07	GAL/SQ YD
LIQUID ASPHALT, TYPE MC-250 - CURING SEAL (BETWEEN C.T.B. AND P.C.C.P.)	0.25	GAL/SQ YD
LIQUID ASPHALT, TYPE MC-70 - PRIME COAT (BETWEEN PLANTMIX BITUMINOUS SURFACE AND TYPE 1 CLASS B AGGREGATE BASE)	0.375	GAL/SQ YD
ASPHALT CEMENT, GRADE AC-30 (PLANTMIX BITUMINOUS SURFACE)	4.5	PERCENT
PORTLAND CEMENT (FOR CEMENT TREATED BASE)	4.0	PERCENT
SPECIFIC GRAVITY USED (AREA AVERAGE)	2.75	
MINERAL FILLER	1.5	PERCENT
BLOTTER SAND	10	LBS PER SQ YD

PROFESSIONAL ENGINEER - STATE OF NEVADA
WILLIAM I. HORDAN
7-12-95
CIVIL
No. 11127

FED. RD. REG. NO.	STATE	PROJECT NO.	COUNTY	SHEET NO.
9	NEVADA	DPC-0009(002) SP1-015-1(20)	CLARK	3E

SUMMARY OF EARTHWORK

ITEM	QUANTITY	UNIT
ROADWAY EXCAVATION		
I-15 MAINLINE	17,880	CY
DETOUR E-N BRIDGE	600	CY
E-N BRIDGE	2,900	CY
TOTAL	21,380	CY
STRUCTURE EXCAVATION		
I-15 BRIDGE WIDENING @ SAHARA AVE	268	CY
I-15 BRIDGE WIDENING @ OAKEY BLVD	259	CY
I-15 BRIDGE WIDENING @ WALL ST	137	CY
I-15 BRIDGE SEISMIC RETROFIT @ WALL ST	254	CY
I-15 BRIDGE WIDENING @ CHARLESTON BLVD	145	CY
I-15 BRIDGE SEISMIC RETROFIT @ CHARLESTON BLVD	175	CY
I-15 BRIDGE WIDENING @ ALTA DRIVE	220	CY
I-15 BRIDGE SEISMIC RETROFIT @ ALTA DRIVE	304	CY
I-15 BRIDGE WIDENING @ DISCOVERY DR	320	CY
I-15 BRIDGE @ E-N RAMP	4,760	CY
I-15 BRIDGE WIDENING @ US 95	225	CY
I-15 BRIDGE SEISMIC RETROFIT @ US 95	88	CY
I-15 BRIDGE WIDENING @ N-W RAMP	435	CY
SOUTH SOIL NAIL WALL	2343	CY
NORTH SOIL NAIL WALL	3764	CY
STORM DRAINAGE	2,258	CY
TOTAL	15,955	CY
EMBANKMENT		
I-15 MAINLINE	100	CY
DETOUR E-N BRIDGE	4,350	CY
TOTAL	4,450	CY
SELECT BORROW EMBANKMENT	2649	CY

GENERAL NOTES:

1. ALIGNMENT AND GRADES ARE SUBJECT TO ADJUSTMENT BY THE ENGINEER. FIELD ADJUSTMENT OF LINE OR GRADE SHALL NOT REDUCE SIGHT DISTANCE BELOW MINIMUM REQUIREMENTS OF ADOPTED DESIGN.
2. DEPTH OF BASE AND SURFACE IS COMPACTED THICKNESS.
3. CONSTRUCTION SIGNS AND BARRICADES SHALL CONFORM TO THE REQUIREMENTS OF THE M.U.T.C.D., 1988 EDITION, AND THE NEVADA SUPPLEMENT THERETO.
4. HIGHWAY SIGNS INAPPROPRIATE TO THE TRAFFIC CONTROL ARE TO BE COVERED AS DIRECTED BY THE ENGINEER.
5. FOR TRAFFIC CONTROL NOT SHOWN REFER TO NEVADA STANDARD SHEET NO'S. T-35.1.1 THROUGH T-35.1.6 AND THE M.U.T.C.D., 1988 EDITION.
6. LOCATION OF UNDERGROUND UTILITIES AS SHOWN ON THE PLANS IS APPROXIMATE ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE UTILITY COMPANY FOR THE EXACT LOCATION AND DEPTH OF UTILITY.

PROFESSIONAL ENGINEER - STATE OF NEVADA
WILLIAM I. HORDAN
CIVIL
No. 11127

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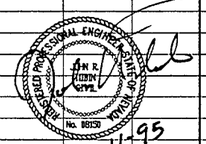
July 12, 1995

FED. RD. REG. NO.	STATE	PROJECT NO.	COUNTY	SHEET NO.
9	NEVADA	DPC-009(002) SPI-015-1(20)	CLARK	3F

SUMMARY OF CONSTRUCTION SIGNS AND BARRICADES

SIGN NO. AND MESSAGE	PANEL SIZE	STAGE ONE PHASE 1	STAGE TWO									STAGE THREE			STAGE FOUR		STAGE FIVE			RENT	SQ. FT. EACH	TOTAL SQ. FT.
			PH. 1	PH. 2	PH. 3	PH. 4	PH. 5	PH. 6	PH. 7	PH. 8	PH. 9	PH. 1	PH. 2	PH. 3	PH. 1	PH. 2	PH. 1	PH. 2	PH. 3			
R1-1 STOP	36" X 36"										2									2	9.00	18.00
R1-2 YIELD	48"X48"X48"														2	2				2	6.95	13.90
R1-4 ALL WAY	18" X 6"										2									2	0.75	1.50
R2-1 SPEED LIMIT (45 MPH)	48" X 60"		4	4														4	4	4	20.00	80.00
R2-1 SPEED LIMIT (55 MPH)	48" X 60"		4	4																4	20.00	80.00
R2-5a REDUCE SPEED AHEAD	48" X 60"		4	4														4	4	4	20.00	80.00
R3-SPECIAL(1) LEFT TURN	24" X 30"						2	2		1	6									6	5.00	30.00
R3-SPECIAL(2) RIGHT TURN	24" X 30"						1	1			3									3	5.00	15.00
R3-1 NO RIGHT TURN	24" X 24"						1	1												1	4.00	4.00
R3-7R RIGHT LANE MUST TURN RIGHT	30" X 30"										4									4	6.25	25.00
R4-7a KEEP RIGHT	24" X 30"		2	4	2	2	5	5	2	5	7			1						7	5.00	35.00
R4-7a KEEP LEFT	24" X 30"	2			1															2	5.00	10.00
R11-2 ROAD CLOSED	48" X 30"			4	2		2	2	2	1	1							2	2	6	10.00	60.00
R11-4 ROAD CLOSED TO THRU TRAFFIC	60" X 30"										1									1	12.50	12.50
W1-3L REVERSE TURN LEFT	48" X 48"						2			1										2	16.00	32.00
W1-3R REVERSE TURN RIGHT	48" X 48"		1	4			2			1										4	16.00	64.00
W1-4L REVERSE CURVE LEFT	48" X 48"		1	6																6	16.00	96.00
W1-4R REVERSE CURVE RIGHT	48" X 48"		2	4																4	16.00	64.00
W1-4L(SP) DOUBLE REVERSE CURVE LEFT	48" X 48"		2															1	1	2	16.00	32.00
W1-4R(SP) DOUBLE REVERSE CURVE RIGHT	48" X 48"		3															1	1	3	16.00	48.00
W3-1A STOP AHEAD	48" X 48"										2									2	16.00	32.00
W3-2A YIELD AHEAD	48" X 48"														1	1				1	16.00	16.00
W4-1L MERGE	48" X 48"														2	2				2	16.00	32.00
W4-1R MERGE	48" X 48"	2		2								3			4	4				4	16.00	64.00
W4-2L LEFT LANE REDUCTION TRANSITION	48" X 48"		3	12	6	6	8	12	6	8	14		2	2	4	4		2	2	22	16.00	352.00
W4-2R RIGHT LANE REDUCTION TRANSITION	48" X 48"	2		2	2		2	4		2	2	2			4	4		2		8	16.00	128.00
W6-3 TWO-WAY TRAFFIC	48" X 48"																1	1	1	1	16.00	16.00
W12-1 DOUBLE ARROW	24" X 24"										1									1	4.00	4.00
W12-2(SP1) LOW CLEARANCE SIGN (THIS LANE)	96" X 48"							2			2									2	32.00	64.00
W12-2(SP2) LOW CLEARANCE SIGN	96" X 48"						2		2											4	32.00	128.00
W13-1 ADVISORY SPEED PLATE (15 MPH)	24" X 24"							1		1										1	4.00	4.00
W13-1 ADVISORY SPEED PLATE (25 MPH)	24" X 24"						5	5		5	5									5	4.00	20.00
W13-1 ADVISORY SPEED PLATE (35 MPH)	24" X 24"	4														4				4	4.00	16.00
W13-1 ADVISORY SPEED PLATE (45 MPH)	24" X 24"	4		8	10	8	8	8	8	8	8	2	2	2	2	2				20	4.00	80.00
W20-2 DETOUR AHEAD	48" X 48"		2	2			2	4			2								2	4	16.00	64.00
W20-3(S1) WALL STREET CLOSED	48" X 48"								1										2	2	16.00	32.00
W20-3(S2) EAST CHARLESTON CLOSED	48" X 48"							3												3	16.00	48.00
W20-3(S3) EAST SAHARA CLOSED	48" X 48"										3									3	16.00	48.00
W20-3(S4) WEST CHARLESTON CLOSED	48" X 48"							2												2	16.00	32.00
W20-3(S5) EAST ALTA CLOSED	48" X 48"						2													2	16.00	32.00
W20-5L LEFT LANE CLOSED AHEAD	48" X 48"		5	16	8	8	12	12	8	12	16		4	4	2				2	26	16.00	416.00
W20-5R RIGHT LANE CLOSED AHEAD	48" X 48"	4			4		4	4		4	4	4			6	4		2		10	16.00	160.00
W20-5ML LEFT TWO LANES CLOSED AHEAD	48" X 48"			2	2	2	2	4	2	2	6				2	2				6	16.00	96.00
W20-5MR RIGHT TWO LANES CLOSED AHEAD	48" X 48"							2								2				2	16.00	32.00
W20-5SP(R) RIGHT LANE MUST EXIT	48" X 48"	7	3	2								9			1					9	16.00	144.00
W20-5(MOD) RIGHT THRU LANE CLOSED AHEAD	48" X 48"				4															4	16.00	64.00
W20-7A FLAGGER	48" X 48"													2						2	16.00	32.00
W20-7F 500 FEET	18" X 24"													2						2	3.00	6.00
W21-4 ROAD WORK AHEAD	48" X 48"	8	4	8	6	4	9	11	4	10	11	4	2	2	5	6	8	8	8	19	16.00	304.00
G20-1A ROAD WORK NEXT X MILES	60" X 30"														1	1				2	12.50	25.00
G20-2A END ROAD WORK	48" X 24"														1	1				2	8.00	16.00
M1-1 I-15 SHIELD	24" X 24"			5	4						4									9	4.00	36.00
M1-4 US 95 SHIELD	24" X 24"			3	8															11	4.00	44.00
M3-1 NORTH	24" X 12"			4	12						2									16	2.00	32.00
M3-3 SOUTH	24" X 12"			4							3									4	2.00	8.00
M4-8 DETOUR	30" X 15"			2	6						2									8	3.13	25.04
M-SP SAHARA	30" X 15"										1									1	3.13	3.13



7-11-95

FED. RD. REG. NO.	STATE	PROJECT NO.	COUNTY	SHEET NO.
9	NEVADA	DPC-009(002) SPI-015-1(20)	CLARK	3G

SUMMARY OF CONSTRUCTION SIGNS AND BARRICADES (CONT.)

SIGN NO. AND MESSAGE	PANEL SIZE	STAGE ONE	STAGE TWO									STAGE THREE			STAGE FOUR		STAGE FIVE			RENT	SQ. FT. EACH	TOTAL SQ. FT.
			PH. 1	PH. 2	PH. 3	PH. 4	PH. 5	PH. 6	PH. 7	PH. 8	PH. 9	PH. 1	PH. 2	PH. 3	PH. 1	PH. 2	PH. 1	PH. 2	PH. 3			
M4-9L DETOUR LEFT	30" X 24"			3	6		3	4	2		3									9	5.00	45.00
M4-9R DETOUR RIGHT	30" X 24"			2			3	4	2		3									4	5.00	20.00
M4-9L(S) DETOUR LEFT	30" X 24"							1			1									1	5.00	5.00
M4-9R(S) DETOUR RIGHT	30" X 24"			1			1	1												1	5.00	5.00
M4-10L DETOUR LEFT	48" X 18"			1	2		1	1	1	1	1									3	6.00	18.00
M4-10L DETOUR RIGHT	48" X 18"						1	1	1											1	6.00	6.00
M5-1R RIGHT ARROW	21" X 15"										1									1	2.19	2.19
M6-2 45 ARROW	21" X 15"			1	3						1									4	2.19	8.76
M6-3 90 ARROW	21" X 15"			1	1						1									2	2.19	4.38
NBA-1(S) BUSINESS ACCESS	30" X 30"							4			4									4	6.25	25.00
NDR-1 DETOUR UP	30" X 24"							2	1		2									2	5.00	10.00
NPS-1 PREPARE TO STOP	48" X 48"			2										2						2	16.00	32.00
NRE-1 RAMP EXIT	42" X 54"	2	2	2	1							1			1	1		1	2	4	15.75	63.00
NTM-1 THRU TRAFFIC MERGE LEFT	48" X 48"	2		2							3	4			2					4	16.00	64.00
NTT-1 THRU TRAFFIC	54" X 60"			2																1	22.50	22.50
NTT-1(MOD) THRU TRAFFIC (2) 90 ARROWS	54" X 60"		2																	2	22.50	45.00
SP-01 ON I-15	24" X 18"														3					3	3.00	9.00
SP-02 WEST FLAMINGO	48" X 30"															1				1	10.00	10.00
SP-03 AT I-15	24" X 18"										2									2	3.00	6.00
SP-04 EAST CHARLESTON	48" X 24"							2												2	8.00	16.00
SP-05 EAST SAHARA	48" X 24"										2									2	8.00	16.00
SP-06 WEST CHARLESTON	48" X 24"							2												2	8.00	16.00
SP-07 EAST ALTA	24" X 24"						2													2	4.00	8.00
SP-08 EAST OAKEY	30" X 24"									1										1	5.00	5.00
SP-09 WEST OAKEY	30" X 24"									2										2	5.00	10.00
SIGN "A" EAST FLAMINGO ROAD	96" X 96"																1	1	1	1	64.00	64.00
																					TOTAL	3,991.90
																					USED	3,992

TRAFFIC DRUMS AND BARRICADES	STAGE ONE	STAGE TWO									STAGE THREE			STAGE FOUR		STAGE FIVE			RENT/ TOTAL
		PH. 1	PH. 2	PH. 3	PH. 4	PH. 5	PH. 6	PH. 7	PH. 8	PH. 9	PH. 1	PH. 2	PH. 3	PH. 1	PH. 2	PH. 1	PH. 2	PH. 3	
RENT BARRICADE WARNING LIGHTING (TYPE "B")	25	22	41	18	16	30	34	16	28	40	17	8	8	15	8	9	29	29	74
RENT CONTRUCTION BARRICADES (TYPE IIIB)	3		9	4		40	33	20	16	33				9					40
PORTABLE PRECAST CONCRETE BARRIER RAIL (STATE FURNISHED)			820										10,920						11,740
RENT PORTABLE PRECAST CONCRETE BARRIER RAIL		4,460	2,600	2,600	2,600	2,600	3,050	2,600	2,960	3,060			16,580			7,020			16,580
RENT CHANGEABLE MESSAGE SIGN	2	2	8	8	2	4	5	2	2	7			7				4	4	16
RENT ARROW BOARD (TYPE "C")	4	2	10	5	3	5	6	3	5	7	2	1	1	5	4		2	2	20
RENT TRAFFIC DRUMS	356	147	375	225	175	257	299	175	239	329	198	120	105	270	228		73	84	870
RENT VERTICAL PANELS																	227	195	227
RENT TEMPORARY IMPACT ATTENUATOR (NO. 1)		3	4																4
RENT TEMPORARY IMPACT ATTENUATOR (NO. 2)							1		1	2									2
RENT TRUCK-MOUNTED IMPACT ATTENUATOR				2	2	2	2	2	2	2		1	1	1	1				3
TEMPORARY LANE LINE MARKERS (WHITE)																	217	204	421
REFLECTIVE PAVEMENT MARKERS		38	115	103	110	104	107	106	115	110			1,439						2,347
NON-REFLECTIVE PAVEMENT MARKERS		114	345	308	329	313	321	318	347	329			3,522						6,246
TEMPORARY PAINTED STRIPING (SOLID WHITE)		1,725											12,360						14,085
TEMPORARY PAINTED STRIPING (SOLID YELLOW)		1,360											14,265						15,625
TEMPORARY PAINTED STRIPING (8-INCH SOLID WHITE)													1,525						1,525
TYPE 1 TEMPORARY TAPE (4-INCH)		2,105	1,000	600	600	600	1,735	600	600	2,280	600	600	600	6,000	6,000				23,920
TYPE 1 TEMPORARY TAPE (8-INCH)		350																500	850
TYPE 1 TEMPORARY TAPE (8-INCH) (BLACK)																		500	500

REGISTERED PROFESSIONAL ENGINEER STATE OF NEVADA JOHN R. TEDER CIVIL No. 8859

7-14-95

NOTE:

QUANTITIES SHOWN ARE APPROXIMATE AND ARE SUBJECT TO INCREASE OR DECREASE. ADDITIONAL SIGNS, NOT LISTED, MAY BE REQUIRED AS DIRECTED BY THE ENGINEER. RENT QUANTITIES REFLECT COMBINATION OF STAGE TWO-PHASE 2, STAGE TWO-PHASE 3, AND STAGE FOUR-PHASE 1 OR THE HIGHEST QUANTITY ASSOCIATED WITH AN INDIVIDUAL PHASE.

ESTIMATE OF QUANTITIES
Quantities Shown are Approximate Only and are Subject to Increase or Decrease
TO BE CONTRACTED

ITEM NO.	Project No. DPC-009(002)	Project No. SPI-015-1(2)	TOTAL	UNIT	DESCRIPTION
110 0100	8,000	---	8,000	HOUR	TRAINING (10 TRAINEES)
202 0200	LS	LS	LS	---	REMOVAL OF BRIDGE
202 0400	LS	LS	LS	---	REMOVAL OF PORTION OF BRIDGE
202 0452	1,456	268	1,724	LINFT	REMOVAL OF EXPANSION JOINTS
202 2500	1,210	544	1,754	LINFT	REMOVAL OF GUARDRAIL
202 2501	1,918	300	2,218	LINFT	REMOVAL OF CONCRETE BARRIER RAIL
202 2800	4,780	2,110	6,890	SQYD	REMOVAL OF BITUMINOUS SURFACE
202 2802	3,401	1,379	4,780	SQYD	REMOVAL OF BITUMINOUS SURFACE (COLD MILLING)
202 2803	340	140	480	SQYD	REMOVAL OF BITUMINOUS SURFACE (MISCELLANEOUS COLD MILLING)
202 3301	779	--	779	LINFT	REMOVAL OF CONCRETE SCORED SHOULDER STRIP
202 3600	592	---	592	LINFT	REMOVAL OF CURB AND GUTTER
202 4204	14	2	16	EACH	REMOVAL OF LIGHT POLE
202 4400	6	3	9	EACH	REMOVAL OF DROP INLET
202 4403	1	1	2	EACH	REMOVAL OF PIPE RISER INLET
202 4720	---	2	2	EACH	REMOVAL OF VALVE
202 5802	19	---	19	LINFT	REMOVAL OF STORM DRAIN PIPE
202 8000	---	1,400	1,400	LINFT	CLEAN CULVERT PIPE
203 0100	17,190	8,060	25,250	CUYD	ROADWAY EXCAVATION
203 0601	2,650	---	2,650	CUYD	SELECTED BORROW EMBANKMENT
206 0100	15,135	825	15,960	CUYD	STRUCTURE EXCAVATION
207 0200	5,005	675	5,680	CUYD	GRANULAR BACKFILL
213 0125	---	20	20	LINFT	2-1/2-INCH POLYVINYL CHLORIDE PIPE
213 6025	---	6	6	EACH	2-1/2-INCH GATE VALVE
302 0100	14,270	12,820	27,090	TON	TYPE 1 CLASS B AGGREGATE BASE
304 0111	180	130	310	TON	PORTLAND CEMENT FOR CEMENT TREATED BASE
304 0500	4,440	3,160	7,600	TON	PLANTMIX CEMENT TREATED BASE AGGREGATE (WET)
401 0100	35	35	70	TON	MINERAL FILLER
402 4020	2,250	2,250	4,500	TON	PLANTMIX BITUMINOUS SURFACE AGGREGATE (TYPE 2)
402 4300	101	101	202	TON	ASPHALT CEMENT, GRADE AC-30
405 5430	1	1	2	TON	EMULSIFIED ASPHALT, TYPE SS-1H (DILUTED)
406 3100	17	17	34	TON	LIQUID ASPHALT, TYPE MC-70
406 8000	145	125	270	TON	SAND BLOTTER
407 3200	19	13	32	TON	LIQUID ASPHALT, TYPE MC-250
409 0112	17,340	12,270	29,610	SQYD	PORTLAND CEMENT CONCRETE PAVEMENT (12-INCHES)
409 0302	11,496	8,136	19,632	LINFT	SAW AND SEAL TRANSVERSE WEAKENED PLANE JOINTS
409 0303	6,590	4,610	11,200	LINFT	SAW AND SEAL LONGITUDINAL WEAKENED PLANE JOINTS
409 0400	744	136	880	LINFT	JOINT FILLER 4-INCH
409 2001	---	290,200	290,200	SQYD	GRIND CONCRETE PAVEMENT
409 2500	FA	FA	FA	---	REPAIR VOLUNTEER CRACKS
502 0101	49	4	53	CUYD	CLASS A CONCRETE (MINOR)
502 0603	6,520	5,220	11,740	LINFT	PORTABLE PRECAST CONCRETE BARRIER RAIL (STATE-FURNISHED)

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STATE	
NEVADA	
PROJECT NO.	
DPC-0009(002) SPI-015-1(20)	
COUNTY	
CLARK	
SHEET NO.	
3H	

ESTIMATE OF QUANTITIES

ITEM NO.	Project No. DPC-009(002)	Project No. SPI-015-1(2)	TOTAL	UNIT	DESCRIPTION
502 0610	103	120	223	LINFT	CONCRETE BARRIER RAIL (TYPE A)
502 0611	795	3,225	4,020	LINFT	CONCRETE BARRIER RAIL (TYPE FA)
502 0620	363	83	446	LINFT	CONCRETE BARRIER RAIL (TYPE B)
502 0621	2,384	2,570	4,954	LINFT	CONCRETE BARRIER RAIL (TYPE FB)
502 0641	4,511	165	4,676	LINFT	CONCRETE BARRIER RAIL (TYPE FD)
502 0912	FA	FA	FA	---	CONCRETE BRIDGE DECK REPAIR
502 3100	5,148	948	6,096	CUYD	CLASS A CONCRETE, MODIFIED (MAJOR)
502 3101	9	---	9	CUYD	CLASS A CONCRETE, MODIFIED (MINOR)
502 5000	13,275	6,715	19,990	SQYD	FINE SURFACE FINISH
502 6202	1,846	482	2,328	LINFT	EXPANSION JOINTS, (2-INCH MOVEMENT)
502 6203	113	---	113	LINFT	EXPANSION JOINTS, (3-INCH MOVEMENT)
502 6304	330	--	330	LINFT	STRIP SEAL EXPANSION JOINT (4-INCH MOVEMENT)
502 6505	118	24	142	EACH	LAMINATED ELASTOMERIC BEARING PAD
502 6901	133	24	157	CUFT	ELASTOMERIC CONCRETE
502 9004	227	---	227	LINFT	RECONSTRUCT ABUTMENT BACKWALL (TYPE A)
502 9005	58	---	58	LINFT	RECONSTRUCT ABUTMENT BACKWALL (TYPE A MOD)
502 9006	185	---	185	LINFT	RECONSTRUCT ABUTMENT BACKWALL (TYPE B)
502 9007	37	---	37	LINFT	RECONSTRUCT ABUTMENT BACKWALL (TYPE C)
502 9310	2,840	---	2,840	SQYD	GROOVE CONCRETE DECK SLAB
503 0600	3	---	3	EACH	30-FOOT PRECAST CONCRETE MEMBERS
503 0700	6	---	6	EACH	32-FOOT PRECAST CONCRETE MEMBERS
503 0950	2	---	2	EACH	37-FOOT PRECAST CONCRETE MEMBERS
503 1000	6	---	6	EACH	38-FOOT PRECAST CONCRETE MEMBERS
503 1050	---	6	6	EACH	39-FOOT PRECAST CONCRETE MEMBERS
503 1100	9	---	9	EACH	40-FOOT PRECAST CONCRETE MEMBERS
503 1150	3	---	3	EACH	41-FOOT PRECAST CONCRETE MEMBERS
503 1200	3	---	3	EACH	42-FOOT PRECAST CONCRETE MEMBERS
503 1300	1	---	1	EACH	44-FOOT PRECAST CONCRETE MEMBERS
503 1350	3	---	3	EACH	45-FOOT PRECAST CONCRETE MEMBERS
503 1400	3	---	3	EACH	46-FOOT PRECAST CONCRETE MEMBERS
503 1650	3	---	3	EACH	51-FOOT PRECAST CONCRETE MEMBERS
503 1750	---	6	6	EACH	53-FOOT PRECAST CONCRETE MEMBERS
503 1850	3	6	9	EACH	55-FOOT PRECAST CONCRETE MEMBERS
503 2000	3	---	3	EACH	58-FOOT PRECAST CONCRETE MEMBERS
503 2200	3	---	3	EACH	62-FOOT PRECAST CONCRETE MEMBERS
503 2400	3	---	3	EACH	66-FOOT PRECAST CONCRETE MEMBERS

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9	NEVADA	DPC-0009(002) SPI-015-1(20)	CLARK	31

ESTIMATE OF QUANTITIES

ITEM NO.	Project No. DPC-009(002)	Project No. SPI-015-1(2)	TOTAL	UNIT	DESCRIPTION
503 2450	---	6	6	EACH	67-FOOT PRECAST CONCRETE MEMBERS
503 2650	3	---	3	EACH	71-FOOT PRECAST CONCRETE MEMBERS
503 2700	3	---	3	EACH	72-FOOT PRECAST CONCRETE MEMBERS
503 3150	3	---	3	EACH	81-FOOT PRECAST CONCRETE MEMBERS
503 7000	LS	LS	LS	---	PRESTRESSING CAST-IN-PLACE CONCRETE
505 0100	935,890	194,150	1,130,040	POUND	REINFORCING STEEL
505 0200	1,000	---	1,000	SQYD	MESH REINFORCING
506 0100	246,910	---	246,910	POUND	STRUCTURAL STEEL
506 1111	147	---	147	EACH	APPROACH SLAB RESTRAINER UNIT
508 0720	3,057	1,224	4,281	LINFT	FURNISH CAST IN DRILLED HOLE CONCRETE PILES (2-FOOT)
508 0730	1,800	---	1,800	LINFT	FURNISH CAST IN DRILLED HOLE CONCRETE PILES (3-FOOT)
508 0740	910	228	1,138	LINFT	FURNISH CAST IN DRILLED HOLE CONCRETE PILES (4-FOOT)
508 0750	400	---	400	LINFT	FURNISH CAST IN DRILLED HOLE CONCRETE PILES (5-FOOT)
508 0760	---	300	300	LINFT	FURNISH CAST IN DRILLED HOLE CONCRETE PILES (6-FOOT)
603 0033	1,384	326	1,710	LINFT	18-INCH REINFORCED CONCRETE PIPE, CLASS III
603 2003	1,237	---	1,237	LINFT	23-INCH X 14-INCH OVAL REINFORCED CONCRETE PIPE, CLASS HE III
603 2004	116	---	116	LINFT	23-INCH X 14-INCH OVAL REINFORCED CONCRETE PIPE, CLASS HE IV
604 0211	5	---	5	LINFT	18-INCH CORR. METAL PIPE (16 GAGE)
604 9120	105	---	105	LINFT	12-INCH SLOTTED CORR METAL PIPE DRAIN (16 GAGE)
609 0200	14,620	410	15,030	POUND	STRUCTURAL STEEL GRATES
613 1301	410	---	410	LINFT	CLASS A CONCRETE CURB AND GUTTER (TYPE 1)
613 1404	25	25	50	SQYD	CLASS A CONCRETE SIDEWALK (4-INCH)
616 2720	110	---	110	LINFT	72-INCH CHAIN-LINK FENCE
616 2998	602	---	602	LINFT	CABLE RAILING
618 0200	50	13	63	LINFT	GALVANIZED GUARDRAIL
618 0201	---	39	39	LINFT	GALVANIZED GUARDRAIL (TRIPLE CORRUGATION)
618 9602	4	4	8	EACH	MODIFIED BREAKAWAY CABLE TERMINAL
618 9701	---	1	1	EACH	GUARDRAIL- BARRIER RAIL CONNECTION (TRIPLE CORRUGATION)
623 0110	900	440	1,340	LINFT	1-INCH CONDUIT
623 0115	2,240	---	2,240	LINFT	1-1/2-INCH CONDUIT
623 0120	---	650	650	LINFT	2-INCH CONDUIT
623 0130	26,540	9,485	36,025	LINFT	3-INCH CONDUIT
623 0140	10	---	10	LINFT	4-INCH CONDUIT
623 0970	720	400	1,120	LINFT	NO. 4/0 CONDUCTOR
623 1000	1,240	---	1,240	LINFT	NO. 1/0 CONDUCTOR
623 1002	16,430	6,064	22,494	LINFT	NO. 2 CONDUCTOR
623 1004	10,840	10,251	21,091	LINFT	NO. 4 CONDUCTOR
623 1006	6,765	3,430	10,195	LINFT	NO. 6 CONDUCTOR
623 1008	2,600	---	2,600	LINFT	NO. 8 CONDUCTOR

FED. RD. REG. NO.	STATE	PROJECT NO.	COUNTY	SHEET NO.
9	NEVADA	DPC-009(002) SPI-095-1(20)	CLARK	3J

ESTIMATE OF QUANTITIES

ITEM NO.	Project No. DPC-009(002)	Project No. SPI-015-1(2)	TOTAL	UNIT	DESCRIPTION
623 1010	2,700	1,320	4,020	LINFT	NO. 10 CONDUCTOR
623 2035	15	---	15	EACH	NO. 3-1/2 PULL BOX
623 2050	1	6	7	EACH	NO. 5 PULL BOX
623 2070	28	8	36	EACH	NO. 7 PULL BOX
623 2100	14	19	33	EACH	JUNCTION BOX
623 2101	15	2	17	EACH	JUNCTION BOX (A)
623 3104	60	28	88	EACH	SODIUM VAPOR LUMINAIRE, 400 WATT
623 3515	8	16	24	EACH	UNDERPASS LUMINAIRE, 150 WATT (TYPE A)
623 3516	6	---	6	EACH	UNDERPASS LUMINAIRE, 150 WATT (TYPE B)
623 3815	2	1	3	EACH	SIGN LIGHTING FIXTURE, SODIUM VAPOR (150 WATT)
623 4800	14	7	21	EACH	HIGH MAST STEEL POLE, 100-FOOT
623 4802	1	---	1	EACH	HIGH MAST STEEL POLE, 120-FOOT
623 4810	15	7	22	EACH	HIGH MAST HEAD FRAME ASSEMBLY
623 7000	---	16	16	EACH	LOOP DETECTOR (6-FOOT X 6-FOOT)
623 7402	---	16	16	EACH	PIEZOELECTRIC DETECTOR
623 7450	---	1	1	EACH	TRAFFIC CONTROLLER CABINET
623 8500	12	---	12	EACH	REMOVE AND RESET LIGHT POLE
623 8750	1	1	2	EACH	UNDERGROUND ELECTRICAL SERVICE
624 0200	18,000	12,000	30,000	HOUR	FLAGGER
624 0205	2,400	1,600	4,000	HOUR	UNIFORMED TRAFFIC CONTROL OFFICER
624 0210	240	160	400	DAY	TRAFFIC CONTROL SUPERVISOR
624 0500	30	20	50	HOUR	RENT EQUIPMENT (MOTOR GRADER)
624 0540	30	20	50	HOUR	RENT EQUIPMENT (LOADER)
624 0550	30	20	50	HOUR	RENT EQUIPMENT (DUMP TRUCK)
624 0600	30	20	50	HOUR	RENT EQUIPMENT (BACKHOE)
625 0110	2,395	1,595	3,990	SQFT	RENT CONSTRUCTION SIGNS
625 0114	90	60	150	EACH	RENT TRAFFIC CONES
625 0118	44	30	74	EACH	RENT BARRICADE WARNING LIGHTS (TYPE B)
625 0122	24	16	40	EACH	RENT CONSTRUCTION BARRICADES (TYPE IIIB)
625 0123	9,950	6,630	16,580	LINFT	RENT PORTABLE PRECAST CONCRETE BARRIER RAIL
625 0125	10	6	16	EACH	RENT CHANGEABLE MESSAGE SIGN
625 0127	60	40	100	DAY	RENT CHANGEABLE MESSAGE SIGN
625 0303	12	8	20	EACH	RENT ARROW BOARD (TYPE C)
625 0416	520	350	870	EACH	RENT TRAFFIC DRUMS
625 0418	136	91	227	EACH	RENT VERTICAL PANELS
625 1000	4	2	6	EACH	RENT TEMPORARY IMPACT ATTENUATOR
625 1001	2	1	3	EACH	RENT TRUCK-MOUNTED IMPACT ATTENUATOR
627 0110	---	48	48	SQFT	PERMANENT SIGNS (GROUND MOUNTED) (METAL SUPPORTS)
627 0130	224	374	598	SQFT	PERMANENT SIGN PANELS (OVERHEAD)
627 0132	---	404	404	SQFT	PERMANENT SIGN PANELS (OVERHEAD) (INTERNALLY ILLUMINATED)
627 0135	LS	LS	LS	---	PERMANENT OVERHEAD SIGN SUPPORT STRUCTURES

FED. RD. REG. NO.	STATE	PROJECT NO.	COUNTY	SHEET NO.
9	NEVADA	DPC-0009(002) SP1-015-1(20)	CLARK	3K

ESTIMATE OF QUANTITIES

ITEM NO.	Project No. DPC-009(002)	Project No. SPI-015-1(2)	TOTAL	UNIT	DESCRIPTION
627 0136	1	---	1	EACH	PERMANENT OVERHEAD SIGN SUPPORT STRUCTURES REMOVE AND RESET
627 0137	1	2	3	EACH	PERMANENT OVERHEAD SIGN SUPPORT STRUCTURES REMOVE
627 0140	1,055	745	1,800	SQFT	PERMANENT SIGNS, REMOVE
627 0145	430	---	430	SQFT	PERMANENT SIGNS, RESET
628 0100	LS	LS	LS	---	MOBILIZATION
633 0100	3,898	2,628	6,526	EACH	NON-REFLECTIVE PAVEMENT MARKERS
633 0200	3,771	2,938	6,709	EACH	REFLECTIVE PAVEMENT MARKERS
633 0331	---	421	421	EACH	TEMPORARY LANE LINE MARKERS (WHITE)
633 4500	16.50	14.00	30.50	MILE	EPOXY PAVEMENT STRIPING (BROKEN WHITE)
633 4510	28,800	26,800	55,600	LINFT	EPOXY PAVEMENT STRIPING (8-INCH SOLID WHITE)
633 4511	9,000	8,154	17,154	LINFT	EPOXY PAVEMENT STRIPING (12-INCH SOLID WHITE)
633 4512	43,100	55,200	98,300	LINFT	EPOXY PAVEMENT STRIPING (8-INCH SOLID YELLOW)
633 4515	1,035	95	1,130	SQFT	EPOXY PAVEMENT STRIPING (VARIES)
633 4525	1.64	1.72	3.36	MILE	EPOXY PAVEMENT STRIPING (12-INCH DOTTED WHITE)
635 0301	14,352	9,568	23,920	LINFT	TYPE 1 TEMPORARY STRIPING TAPE
635 0319	---	1,350	1,350	LINFT	TYPE 1 TEMPORARY STRIPING TAPE (8-INCH WIDTH)
636 1002	0.17	0.12	0.29	MILE	TEMPORARY PAINTED STRIPING (8-INCH SOLID WHITE)
636 1006	1.60	1.07	2.67	MILE	TEMPORARY PAINTED STRIPING (SOLID WHITE)
636 1007	1.78	1.18	2.96	MILE	TEMPORARY PAINTED STRIPING (SOLID YELLOW)
637 0001	FA	FA	FA	---	TEMPORARY POLLUTION CONTROL
637 0100	30	20	50	TON	DUST PALLIATIVE
640 0550	612	---	612	EACH	SOIL NAIL
660 0150	1,000	---	1,000	SQYD	PNEUMATICALLY PLACED CONCRETE MORTAR (5-INCH DEPTH)

FED. RD. REG. NO.	STATE	PROJECT NO.	COUNTY	SHEET NO.
9	NEVADA	DPC-0009(002) SPI-015-1(20)	CLARK	3L

FED RD. REG. NO.	STATE	PROJECT NO.	COUNTY	SHEET NO.
9	NEVADA	SP1-015-1(20)	CLARK	4

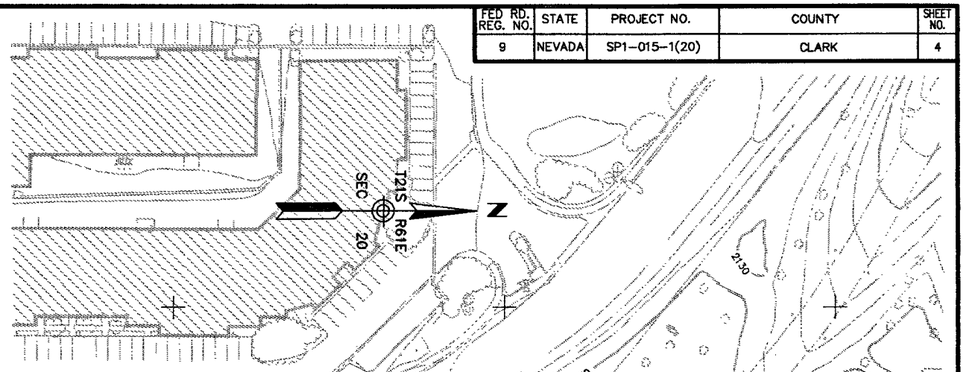
① "SB" 241+55, LT & RT — REMOVE SIGN STRUCTURE (SEE SHEET TS-1)

② "SB" 241+03±, 28'± RT TO "SB" 242+18±, 32'± RT; "SB" 241+01±, 55'± LT TO "SB" 242+16±, 57'± LT — REMOVE GUARDRAIL

③ "SB" 241+40, 54.00' LT — INSTALL OVERHEAD SIGN STRUCTURE (SEE SHEET TS-7)

④ "SB" 241+15.00, 48' LT TO "SB" 242+35.00 — CONSTRUCT CONCRETE BARRIER RAIL, TYPE A

⑤ "SB" 241+21.67, 48' LT TO "SB" 243+02.59, 54.83' LT — INSTALL GUARDRAIL W/MODIFIED BCT



NOTE: SEE SHEETS TC-82 THRU TC-85 FOR "DNB1" AND "DSB1" ALIGNMENT AND CURVE DATA INFORMATION.

N 495000 N 495500 N 496000

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

I-15 MEDIAN WIDENING
FLAMINGO BRIDGE DEMOLITION

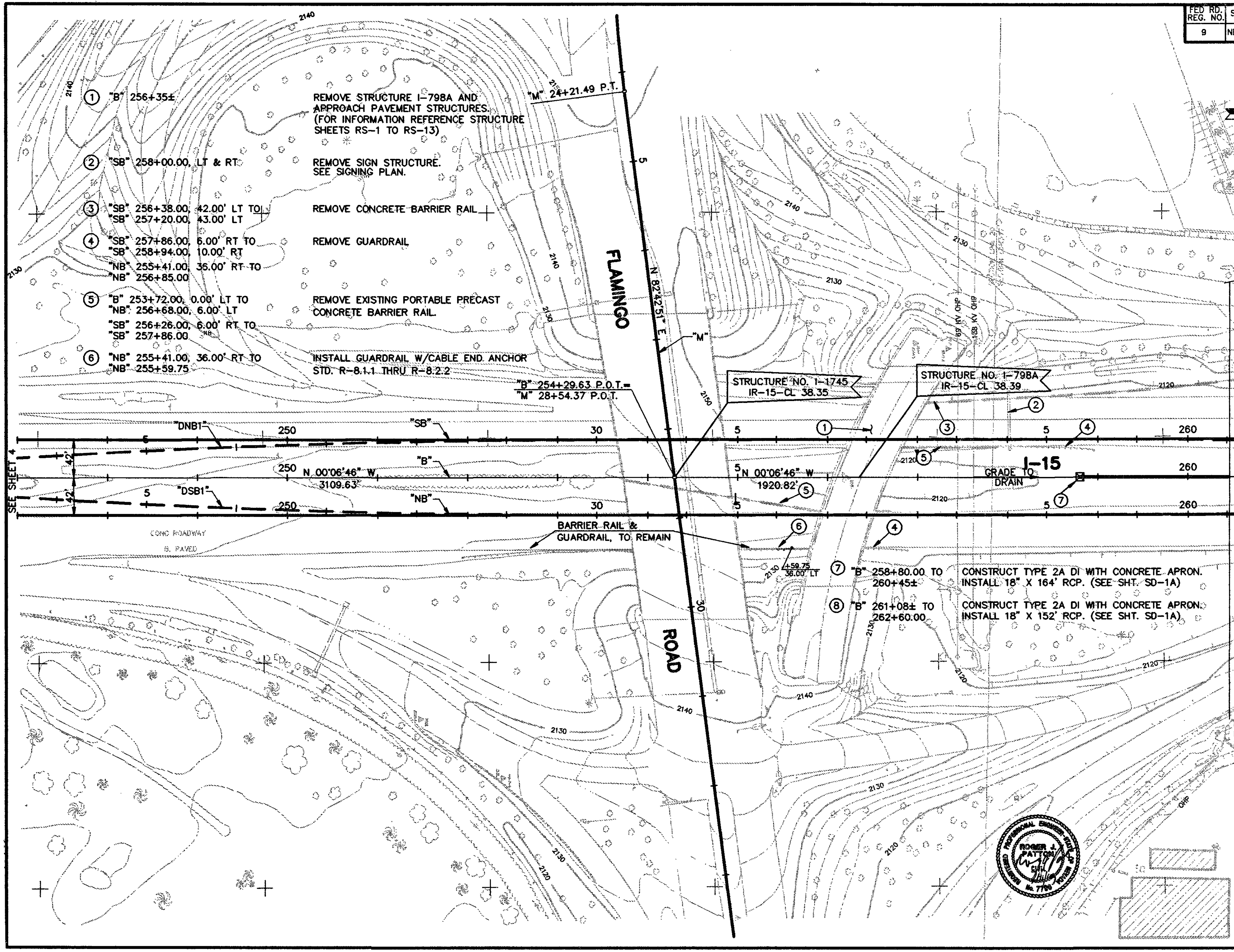
CONSTRUCTION PLAN

"B" 232+00 TO "B" 247+50

LOUIS BERGER & ASSOCIATES, INC.
LAS VEGAS, NEVADA

DESIGNED BY	RGR
DRAWN BY	RSS
CHECKED BY	TDL
REVIEWED BY	RJP

FED. RD. REG. NO.	STATE	PROJECT NO.	COUNTY	SHEET NO.
9	NEVADA	SP1-015-1(20)	CLARK	5



STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

I-15 MEDIAN WIDENING
FLAMINGO BRIDGE DEMOLITION

CONSTRUCTION PLAN

"B"247+50 TO "B" 263+00

LOUIS BERGER
& ASSOCIATES, INC.
LAS VEGAS, NEVADA

DESIGNED BY TO
DRAWN BY RSS
CHECKED BY TDL
REVIEWED BY RDJ

FED. RD. REG. NO.	STATE	PROJECT NO.	COUNTY	SHEET NO.
9	NEVADA	SP1-015-1(20)	CLARK	6

EXCAVATION CU YD
BORROW EMB CU YD
EMBANKMENT CU YD
SELECT BORROW EMB CU YD

2,800 ①
0
0
0

"B" 235+40.34

"B" 264+59.98

"B" 235+40.34 TO "B" 264+59.98
(I-15 CROSSOVER DETOUR)

① 2,800 CU. YD. OF EXCAVATED MATERIAL TO BE DISPOSED.

EXCAVATION CU YD
BORROW EMB CU YD
EMBANKMENT CU YD
SELECT BORROW EMB CU YD

730 ②
0
0
0

"B" 255+85±

"B" 258+15±

340 ③
0
0
0

"B" 255+25±

"B" 256+50±

② 730 CU. YD. OF EXCAVATED MATERIAL TO BE DISPOSED.

③ 340 CU. YD. OF EXCAVATED MATERIAL TO BE DISPOSED.

"B" 255+85± TO "B" 258+15±
(FLAMINGO BRIDGE WEST ABUTMENT)

"B" 255+25± TO "B" 256+50±
(FLAMINGO BRIDGE EAST ABUTMENT)

C:\WAYNE\573\FLA-SBNB WJRB 06/14/95 11:49:11

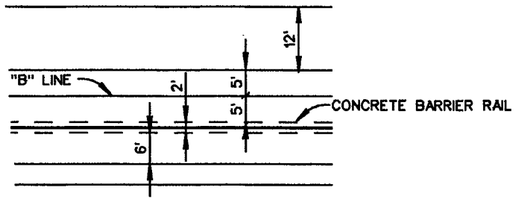
STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

I-15 MEDIAN WIDENING
FLAMINGO BRIDGE DEMOLITION
PROFILE "B"
EARTHWORK QUANTITIES

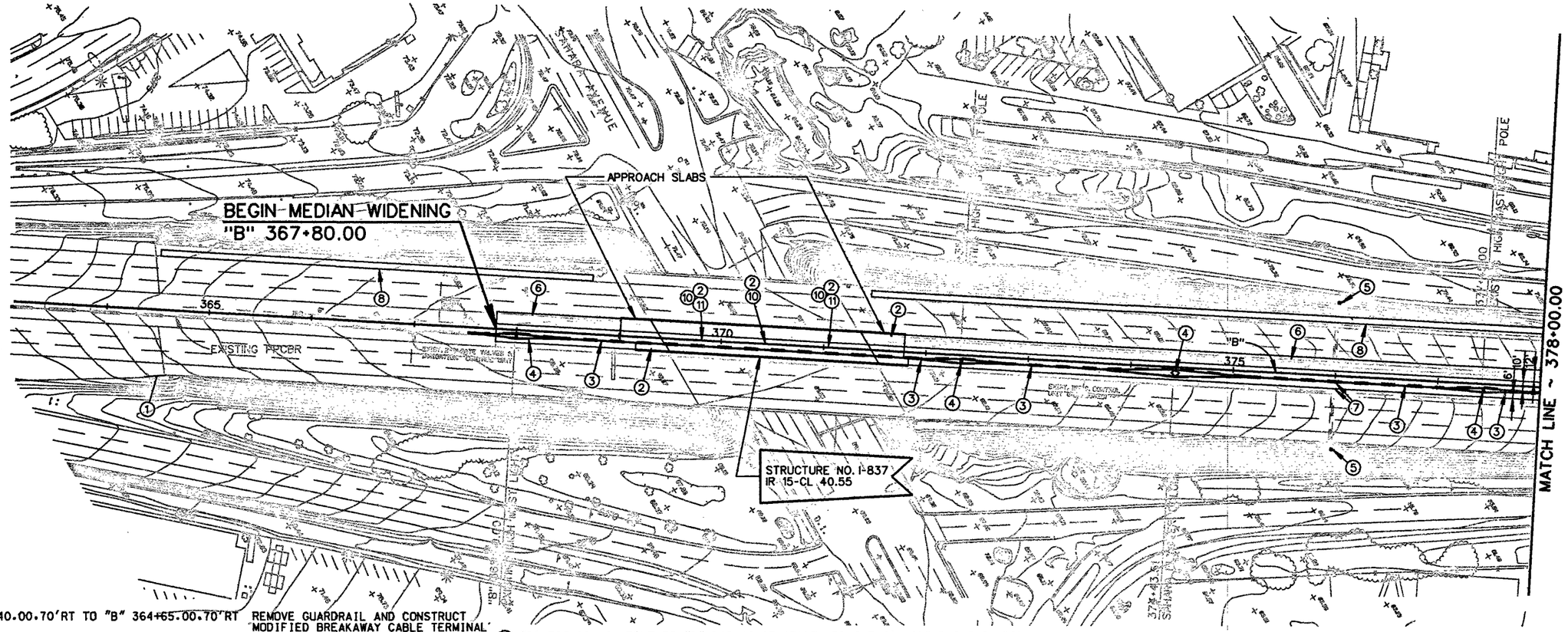
LOUIS BERGER
& ASSOCIATES, INC.
LAS VEGAS, NEVADA

DESIGNED BY TO
DRAWN BY CHA
CHECKED BY TDL
REVIEWED BY RJP

FED. RD. REG. NO.	STATE	PROJECT NO.	COUNTY	SHEET NO.
9	NEVADA	SPI-015-1(20)	CLARK	7



PROPOSED MEDIAN WIDENING DETAIL



① "B" 364+40.00.70'RT TO "B" 364+65.00.70'RT — REMOVE GUARDRAIL AND CONSTRUCT MODIFIED BREAKAWAY CABLE TERMINAL

② "B" 369+31.13'RT TO "B" 369+50.13'RT
"B" 371+38.13'LT TO "B" 371+57.13'LT
"B" 369+83.70 (ON SAHARA AVE)
"B" 370+43.70 (ON SAHARA AVE)
"B" 371+03.70 (ON SAHARA AVE)
— REMOVE CONCRETE BARRIER RAIL

③ "B" 368+40.00.6'RT TO "B" 369+12.11.6'RT
"B" 371+79.55.6'RT TO "B" 371+95.00.6'RT
"B" 372+75.00.6'RT TO "B" 373+72.51.6'RT
"B" 375+14.51.6'RT TO "B" 377+05.00.6'RT
"B" 377+85.00.6'RT TO "B" 378+00.00.6'RT
— CONSTRUCT TYPE FA CONC BARRIER RAIL (SEE DETAIL SHEET 17)

④ "B" 367+66.00.6'RT TO "B" 368+40.00.6'RT
"B" 371+95.00.6'RT TO "B" 372+75.00.6'RT
"B" 373+72.51.6'RT TO "B" 375+14.51.6'RT
"B" 377+05.00.6'RT TO "B" 377+85.00.6'RT
— CONSTRUCT TYPE FB CONC BARRIER RAIL (SEE DETAIL SHEET 17)

⑤ "B" 376+00.00.73'LT
"B" 376+00.00.73'RT
— INSTALL 2½" GATE VALVE

⑥ "B" 367+80.00.17'LT TO "B" 369+40.93.17'LT
"B" 371+46.48.17'LT TO "B" 378+00.00.17'LT
— REMOVE 4' WIDE PMS SHOULDER

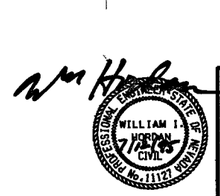
⑦ "B" 376+00. 4'RT
"B" 376+00. 14'RT
— REMOVE 2½" GATE VALVES. CONNECT 2½" IRRIGATION 10'±

⑧ "B" 364+50.00.53'LT TO "B" 368+70.00.53'LT
"B" 371+50.00.53'LT TO "B" 378+00.00.53'LT
— REMOVE 2" DEPTH BY 6' WIDE PMS SHOULDER (COLD MILLING)

⑨ NOT USED

⑩ "B" 369+83.70 (ON SAHARA AVE)
"B" 370+43.70 (ON SAHARA AVE)
"B" 371+03.70 (ON SAHARA AVE)
— CONSTRUCT CONCRETE BARRIER RAIL (TYPE B) (SEE TYPICAL SECTION SHEET 2)

⑪ "B" 369+83.70 (ON SAHARA AVE)
"B" 371+03.70 (ON SAHARA AVE)
— CONSTRUCT CLASS A CONCRETE SIDEWALK (4-INCH) (SEE TYPICAL SECTION SHEET 2)



STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

I-15 MEDIAN WIDENING

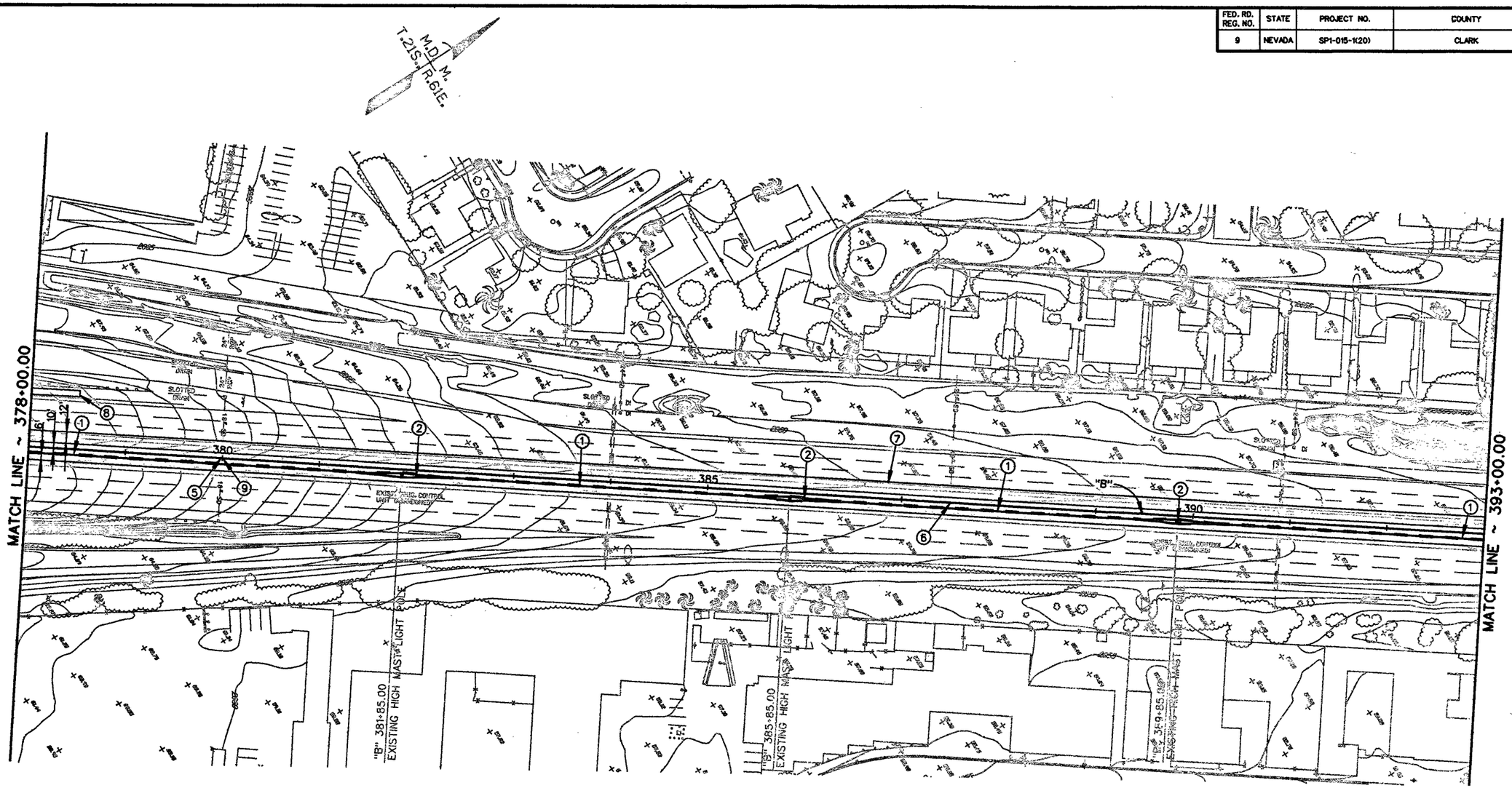
CONSTRUCTION PLAN

"B" 367+80 TO "B" 378+00

PARSONS BRINCKERHOFF

DESIGN BY	W.I.H.
DRAWN BY	R.T.C. / F.A.B.
CHECKED BY	R.P.P.
REVIEWED BY	W.I.H.

FED. RD. REG. NO.	STATE	PROJECT NO.	COUNTY	SHEET NO.
9	NEVADA	SPI-015-1(20)	CLARK	8



① "B" 378+00.00,6'RT TO "B" 381+45.00,6'RT — CONSTRUCT TYPE FA CONC BARRIER RAIL
"B" 382+25.00,6'RT TO "B" 385+45.00,6'RT — (SEE DETAIL SHEET 17)
"B" 386+25.00,6'RT TO "B" 389+45.00,6'RT
"B" 390+25.00,6'RT TO "B" 393+00.00,6'RT

② "B" 381+45.00,6'RT TO "B" 382+25.00,6'RT — CONSTRUCT TYPE FB CONC BARRIER RAIL
"B" 385+45.00,6'RT TO "B" 386+25.00,6'RT — (SEE DETAIL SHEET 17)
"B" 389+45.00,6'RT TO "B" 390+25.00,6'RT

③ NOT USED

④ NOT USED

⑤ "B" 380+00.00, ℄ — REMOVE EXISTING TYPE 2 MODIFIED D.I.

⑥ "B" 387+50.00, ℄ — REMOVE EXISTING MODIFIED TYPE 2 D.I. AND PLUG EXISTING 18" RCP

⑦ "B" 378+00.00,17'LT TO "B" 393+00.00,17'LT — REMOVE 4' WIDE PMS SHOULDER

⑧ "B" 378+00.00,53'LT TO "B" 378+50.00,53'LT — REMOVE 2" DEPTH BY 6' WIDE PMS SHOULDER (COLD MILLING)

⑨ "B" 380+00.00, ℄ — CONNECT EXISTING 18" RCP LATERALS WITH 18" x 5' RCP WITH CONCRETE COLLARS ON BOTH ENDS (SEE SHEET SD-4 & SD-5)

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

I-15 MEDIAN WIDENING

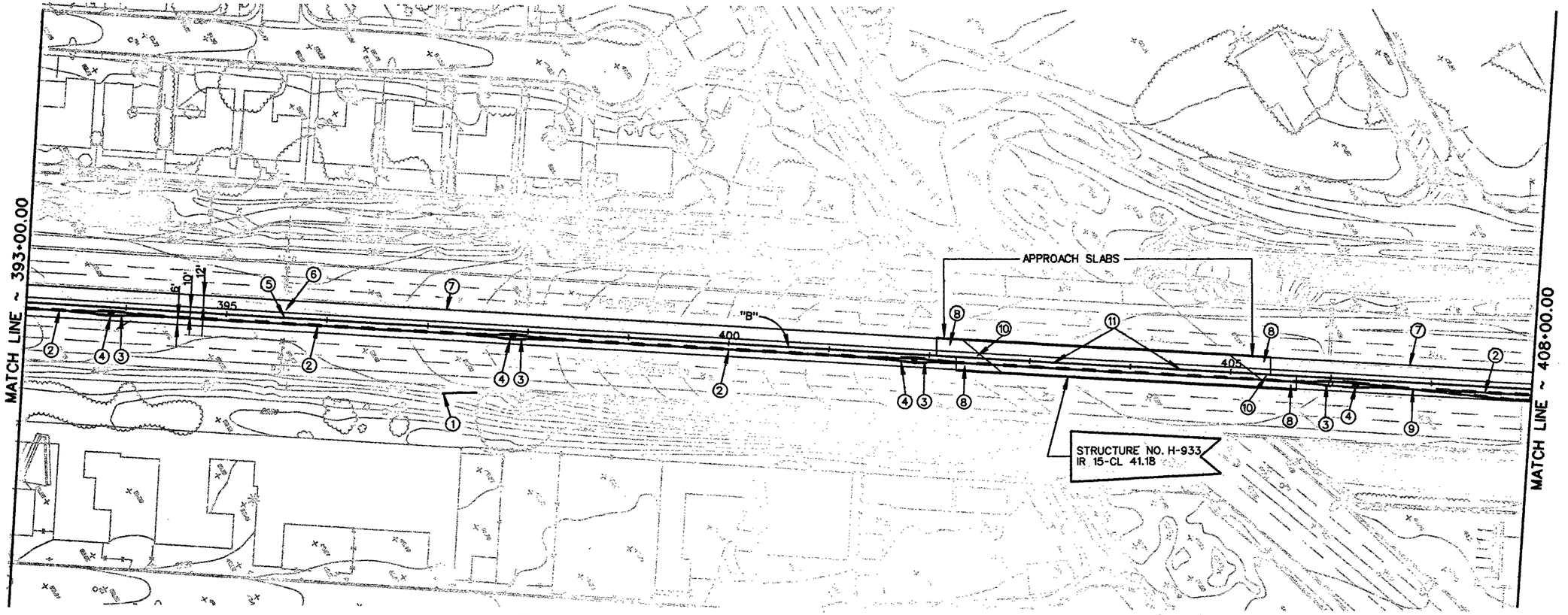
CONSTRUCTION PLAN

"B" 378+00 TO "B" 393+00

PARSONS BRINCKERHOFF

DESIGN BY	G.I.H.
DRAWN BY	R.T.C. / F.A.B.
CHECKED BY	B.P.P.
REVIEWED BY	W.I.H.

FED. RD. REG. NO.	STATE	PROJECT NO.	COUNTY	SHEET NO.
9	NEVADA	SP1-015-1(20)	CLARK	9



① "B" 397+15.00.70'RT TO "B" 397+40.00.70'RT — REMOVE GUARDRAIL AND CONSTRUCT MODIFIED BREAKAWAY CABLE TERMINAL

② "B" 393+00.00.6'RT TO "B" 393+45.00.6'RT
"B" 394+25.00.6'RT TO "B" 397+45.00.6'RT
"B" 398+25.00.6'RT TO "B" 401+45.00.6'RT
"B" 407+05.00.6'RT TO "B" 408+00.00.6'RT
— CONSTRUCT TYPE FA CONC BARRIER RAIL (SEE DETAIL SHEET 17)

③ "B" 393+45.00.6'RT TO "B" 394+25.00.6'RT
"B" 397+45.00.6'RT TO "B" 398+25.00.6'RT
"B "401+45.00.6'RT TO "B" 402+21.82.6'RT
"B" 405+66.49.6'RT TO "B" 406+65.00.6'RT
— CONSTRUCT TYPE FB CONC BARRIER RAIL (SEE DETAIL SHEET 17)

④ "B" 393+85.00.6'RT
"B" 397+85.00.6'RT
"B" 401+85.00.6'RT
"B" 406+25.00.6'RT
— CONSTRUCT HIGH MAST LIGHT POLE (SEE LIGHTING PLANS)

⑤ "B" 395+58.00, ℄ — REMOVE EXISTING TYPE 2 MODIFIED D.I.

⑥ "B" 395+58.00, ℄ — CONNECT EXISTING 18" RCP LATERALS WITH 18"x5'± RCP WITH CONCRETE COLLARS ON BOTH ENDS (SEE SHEET SD-4 & SD-5)

⑦ "B" 393+00.00.17'LT TO "B" 402+53.96.17'LT
"B" 405+23.89.17'LT TO "B" 408+00.00.17'LT
— REMOVE 4' WIDE PMS SHOULDER

⑧ "B" 402+17.13'LT TO "B" 402+37.13'LT
"B" 402+53.13'RT TO "B" 402+72.13'RT
"B" 405+03.13'LT TO "B" 405+22.13'LT
"B" 405+40.13'RT TO "B" 405+59.13'RT
— REMOVE CONCRETE BARRIER RAIL

⑨ "B" 406+65.6.00'RT TO "B" 408+00.12.29'RT — PPCBR (TO REMAIN IN PLACE)

⑩ "B" 402+50
"B" 405+33
— REMOVE CHAIN LINK FENCE (NO PAYMENT)

⑪ "B" 403+13.34 (ON OAKEY BLVD)
"B" 404+64.46 (ON OAKEY BLVD)
— CONSTRUCT CLASS A CONCRETE SIDEWALK (4-INCH) (SEE TYPICAL STREET SECTION SHEET 2)

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

I-15 MEDIAN WIDENING

CONSTRUCTION PLAN

"B" 393+00 TO "B" 408+00

PARSONS BRINCKERHOFF

DESIGN BY	W.T.H.
DRAWN BY	R.T.C., J.F.A.B.
CHECKED BY	B.P.P.
REVIEWED BY	W.T.H.