

REFERENCE FILE: 851-INT-GEOD.MST - 851-internal\ign.mst - 851-topo.mst - 851-contours.mst - 851-border.mst - 851-row.mst - 851-l-DRAINAGE.MST - 851-util.mst - 851-GRID.mst
FILE NAME: V:\851 Ann Rd to El Capitan\Interm\Water\851-1\WP01.dgn - 3/25/2002 - 14:22:54 RR

EXISTING LVVWD CONTRACT 887
RECORD DRAWINGS EXISTING PIPE DATA:
O.D. OF STEEL CYLINDER = 37.375"
THICKNESS STEEL CYLINDER = 0.1875"
LINING THICKNESS = 0.50" MORTAR
COATING THICKNESS = 1.00" MORTAR

NOTES:

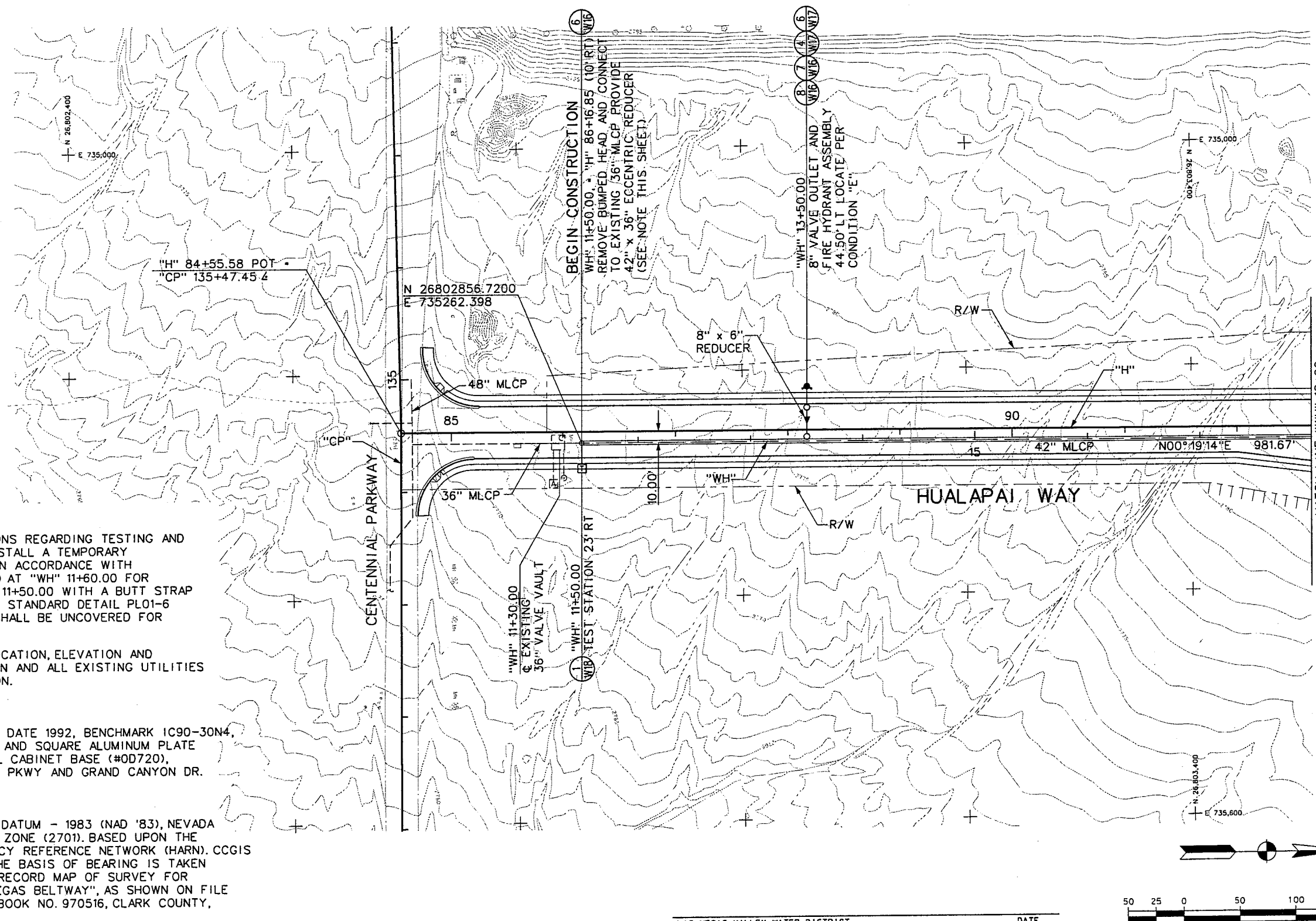
- SEE SECTION 02519 OF THE SPECIFICATIONS REGARDING TESTING AND DISINFECTION. THE CONTRACTOR SHALL INSTALL A TEMPORARY BUMPED HEAD WITH AIR RELEASE VALVE IN ACCORDANCE WITH LVVWD STANDARD DETAIL No. PL10-2(2/07) AT "WH" 11+60.00 FOR TESTING PRIOR TO CONNECTION AT "WH" 11+50.00 WITH A BUTT STRAP CONNECTION IN ACCORDANCE WITH LVVWD STANDARD DETAIL PL01-6 (8/D7). CONNECTING PIPE AND FITTINGS SHALL BE UNCOVERED FOR OBSERVATION UNDER DESIGN PRESSURE.
- THE CONTRACTOR SHALL FIELD VERIFY LOCATION, ELEVATION AND CONDITION OF ALL POINTS OF CONNECTION AND ALL EXISTING UTILITIES PRIOR TO COMMENCING ANY CONSTRUCTION.

PROJECT BENCHMARK:

CLARK COUNTY VERTICAL CONTROL, REVISION DATE 1992, BENCHMARK IC90-30N4, ELEV = 2688.67 (819.508 m), BEING A RIVET AND SQUARE ALUMINUM PLATE IN THE SOUTHEAST CORNER OF A ELECTRICAL CABINET BASE (#0D720), 200 FT SOUTH AND 40 FT WEST CENTENNIAL PKWY AND GRAND CANYON DR.

BASIS OF BEARING

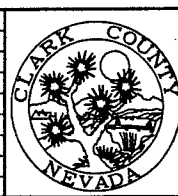
THE BASIS OF BEARING IS NORTH AMERICAN DATUM - 1983 (NAD '83), NEVADA COORDINATE SYSTEM - 1983 (NCS '83), EAST ZONE (2701). BASED UPON THE NATIONAL GEODETIC SURVEY - HIGH ACCURACY REFERENCE NETWORK (HARN). CCGIS 807, CNLV HARN 756 AND CNLV HARN 748. THE BASIS OF BEARING IS TAKEN FROM HMM'S RECORD OF SURVEY ENTITLED "RECORD MAP OF SURVEY FOR NORTHERN/WESTERN SEGMENT OF THE LAS VEGAS BELTWAY", AS SHOWN ON FILE 89 OF SURVEYS, PAGE 3, OFFICIAL RECORDS BOOK NO. 970516, CLARK COUNTY, NEVADA.



Call
Before You
Dig
1-800-227-2600

WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY

REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
WATER LINE PLAN
"WH" 11+50.00 TO "WH" 18+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

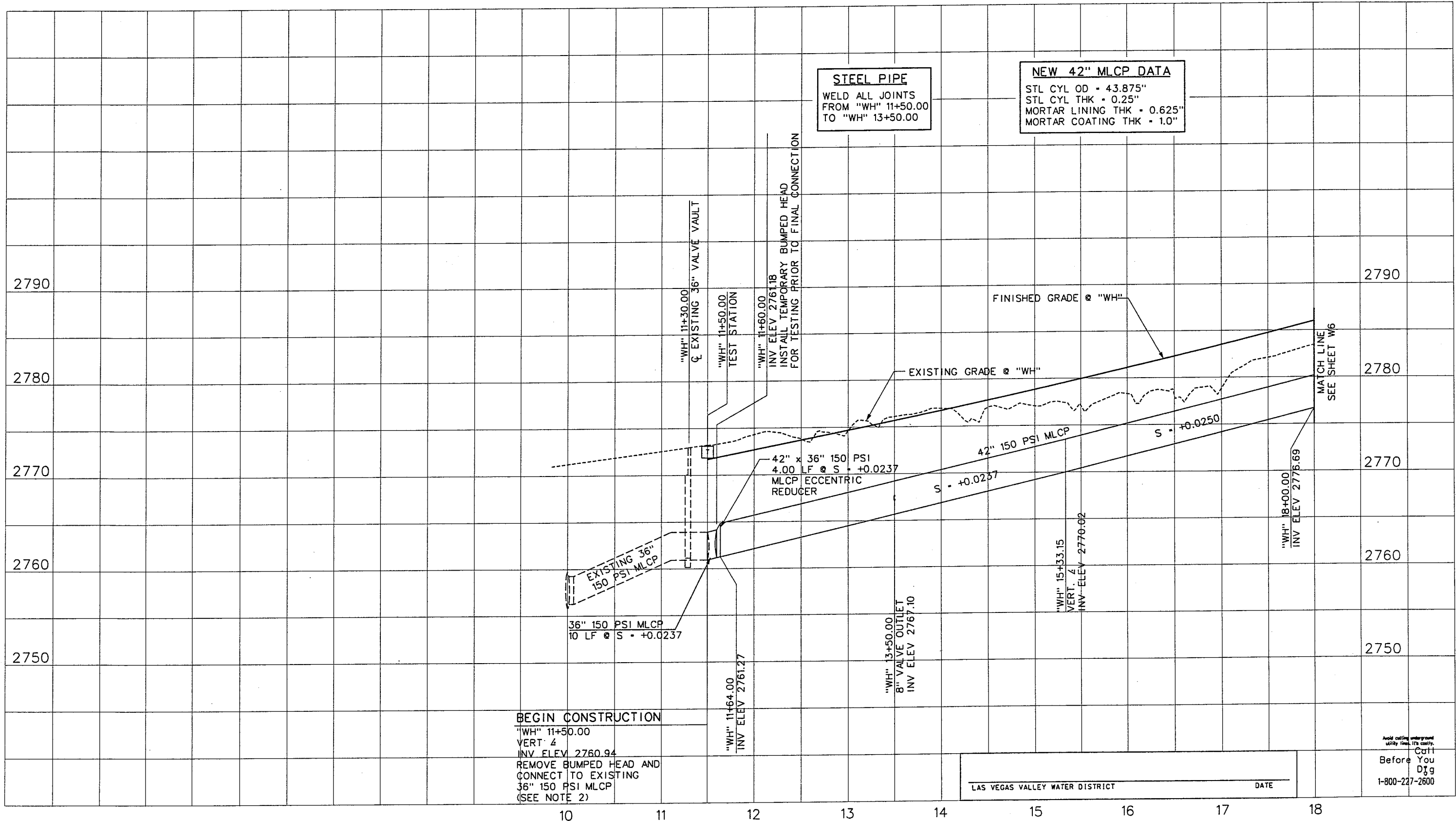
90%
PRELIMINARY
4-12-02

PROJECT NO: 851	DRAWN BY: GFV	SCALE	DRAWING NO. W3
DESIGNED BY: DPW	CHECKED BY: MJP	HORIZ: AS SHOWN	OF
APPROVED BY: TDL		VERT: NONE	
		FIELD BOOK	
			L-1695



THE LOUIS BERGER GROUP, INC.
LAS VEGAS, NEVADA

REFERENCE FILE: 851-pro-grid.mst ~ 851-border.mst ~ 851-initial-profile.mst ~ 851-stamp.mst
FILE NAME: V:\851 Ann Rd to El Capitan\Interm\Water\851-IWPR01.dgn - 3/21/2002 - 14:23:39 RR



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
WATER LINE PROFILE
"WH" 11+50.00 TO "WH" 18+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

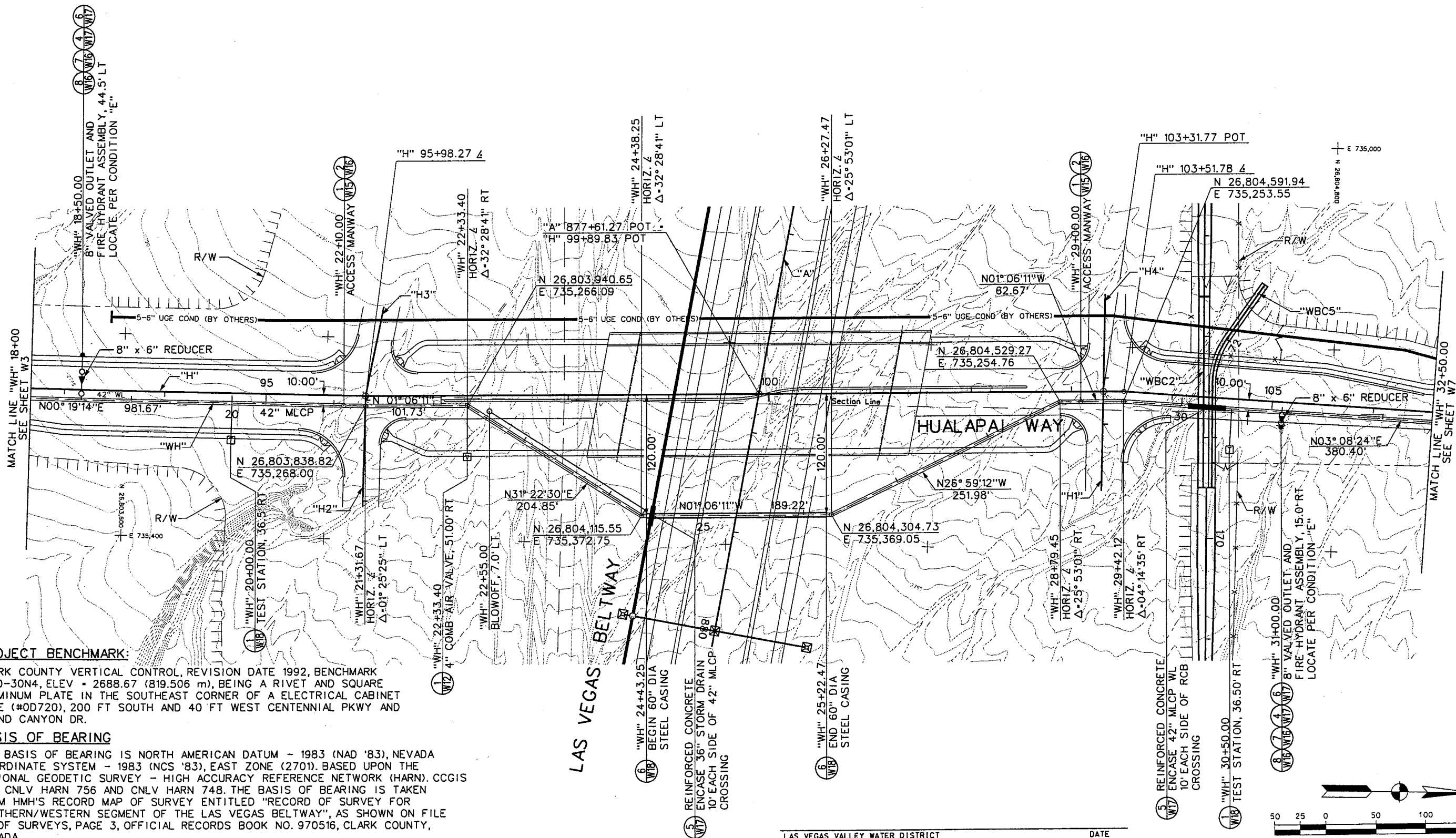
90%
PRELIMINARY
4-12-02

PROJECT NO: 851	DRAWN BY: GFV	SCALE	DRAWING NO.
DESIGNED BY: DPW	CHECKED BY: MJP	HORIZ: AS SHOWN	W4
APPROVED BY: TDL		VERT: AS SHOWN	OF
		FIELD BOOK	
			L-1695

THE LOUIS BERGER GROUP, INC.
LAS VEGAS, NEVADA

WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY

REFERENCE FILES: 851-INT-CEOMJST ~ 851-INT-CEOMJST ~ 851-INT-CEOMJST ~ 851-INT-CEOMJST ~ 851-INT-CEOMJST ~ 851-INT-CEOMJST ~ 851-INT-CEOMJST ~ 851-INT-CEOMJST ~ 851-INT-CEOMJST ~ 851-INT-CEOMJST
FILE NAME: V:\851 Ann Rd to El Capitan\Intern\Water\851-1WP02.dgn - 3/25/2002 - 14:24:19 RR



PROJECT BENCHMARK:

CLARK COUNTY VERTICAL CONTROL, REVISION DATE 1992, BENCHMARK IC90-30N4, ELEV = 2688.67 (819.506 m), BEING A RIVET AND SQUARE ALUMINUM PLATE IN THE SOUTHEAST CORNER OF A ELECTRICAL CABINET BASE (#0D720), 200 FT SOUTH AND 40 FT WEST CENTENNIAL PKWY AND GRAND CANYON DR.

BASIS OF BEARING

THE BASIS OF BEARING IS NORTH AMERICAN DATUM - 1983 (NAD '83), NEVADA COORDINATE SYSTEM - 1983 (NCS '83), EAST ZONE (2701). BASED UPON THE NATIONAL GEODETIC SURVEY - HIGH ACCURACY REFERENCE NETWORK (HARN). CCGIS 807, CNLV HARN 756 AND CNLV HARN 748. THE BASIS OF BEARING IS TAKEN FROM HMH'S RECORD MAP OF SURVEY ENTITLED "RECORD OF SURVEY FOR NORTHERN/WESTERN SEGMENT OF THE LAS VEGAS BELTWAY", AS SHOWN ON FILE 89 OF SURVEYS, PAGE 3, OFFICIAL RECORDS BOOK NO. 970516, CLARK COUNTY, NEVADA.

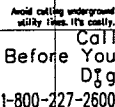


WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
WATER LINE PLAN
"WH" 18+00.00 TO "WH" 32+50.00+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

PROJECT NO: 851	DRAWN BY: GFV	SCALE	DRAWING NO.
DESIGNED BY: DPW	CHECKED BY: MJP	HORIZ: AS SHOWN	W5
APPROVED BY: TDL		VERT: NONE	OF
		FIELD BOOK	
			L-1695

THE LOUIS BERGER GROUP, INC.
LAS VEGAS, NEVADA



90%
PRELIMINARY
4-12-02

SCALE
HORIZ: AS SHOWN
VERT: AS SHOWN
FIELD BOOK

DRAWING NO.	W6
OF	
	L-1695



DATE _____



90%
PRELIMINARY
4-12-02



DRAWING NO.
W7
OF

L-1695

REFERENCE FILE: 851-1-ORAINAGE.MST ~ 851-INTERM-NBC-GEOM.MST ~ 851-INT-Geo.MST ~ 851-INTERM-NBC-ALGN.MST ~ 851-CONTOURS.MST ~ 851-GRID.MST ~ 851-ROW.MST ~ 851-LOPO.MST ~ 851-UTIL.MST ~ 851-BORDER.MST ~ 851-HALF-PRO-GRID.DGN ~ 851-PROFILES.MST
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NOTES:

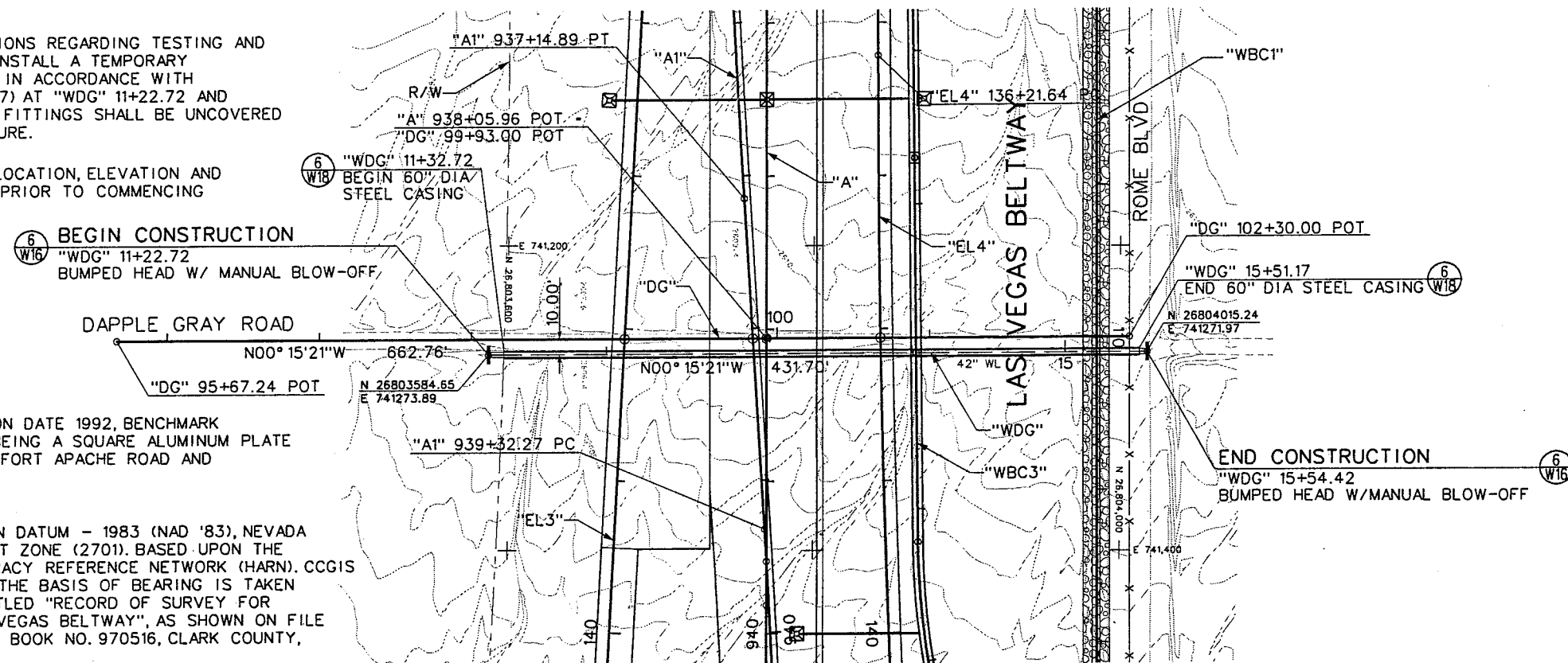
- SEE SECTION 02519 OF THE SPECIFICATIONS REGARDING TESTING AND DISINFECTION. THE CONTRACTOR SHALL INSTALL A TEMPORARY BUMPED HEAD WITH AIR RELEASE VALVE IN ACCORDANCE WITH LVVWD STANDARD DETAIL No. PL10-2(2/07) AT "WDG" 11+22.72 AND "WDG" 15+54.42 FOR TESTING. PIPE AND FITTINGS SHALL BE UNCOVERED FOR OBSERVATION UNDER DESIGN PRESSURE.
- THE CONTRACTOR SHALL FIELD VERIFY LOCATION, ELEVATION AND CONDITION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING ANY CONSTRUCTION.

PROJECT BENCHMARK:

CLARK COUNTY VERTICAL CONTROL, REVISION DATE 1992, BENCHMARK 2C90-20W4, ELEV = 2647.28' (806.894 m), BEING A SQUARE ALUMINUM PLATE WIRED ON A REBAR 100 FT NORTHEAST OF FORT APACHE ROAD AND DEER SPRINGS WAY.

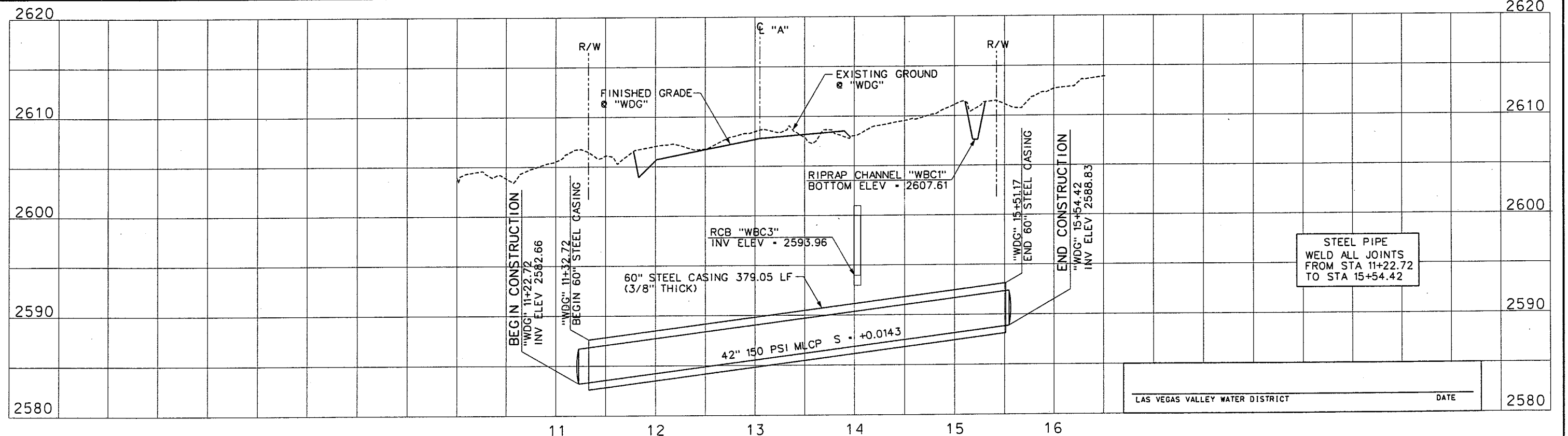
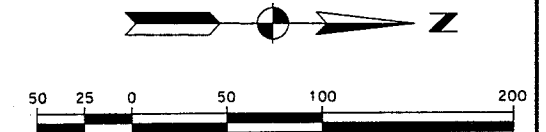
BASIS OF BEARING

THE BASIS OF BEARING IS NORTH AMERICAN DATUM - 1983 (NAD '83), NEVADA COORDINATE SYSTEM - 1983 (NCS '83), EAST ZONE (2701). BASED UPON THE NATIONAL GEODETIC SURVEY - HIGH ACCURACY REFERENCE NETWORK (HARN). CCGIS 807, CNLV HARN 756 AND CNLV HARN 748. THE BASIS OF BEARING IS TAKEN FROM HHM'S RECORD MAP OF SURVEY ENTITLED "RECORD OF SURVEY FOR NORTHERN/WESTERN SEGMENT OF THE LAS VEGAS BELTWAY", AS SHOWN ON FILE 89 OF SURVEYS, PAGE 3, OFFICIAL RECORDS BOOK NO. 970516, CLARK COUNTY, NEVADA.



42" PIPE DATA

TYPE: MLCP
STL CYL OD = 43.875"
STL CYL THICKNESS = 0.25"
MORTAR LINING = 0.65"
MORTAR COATING = 1.00"



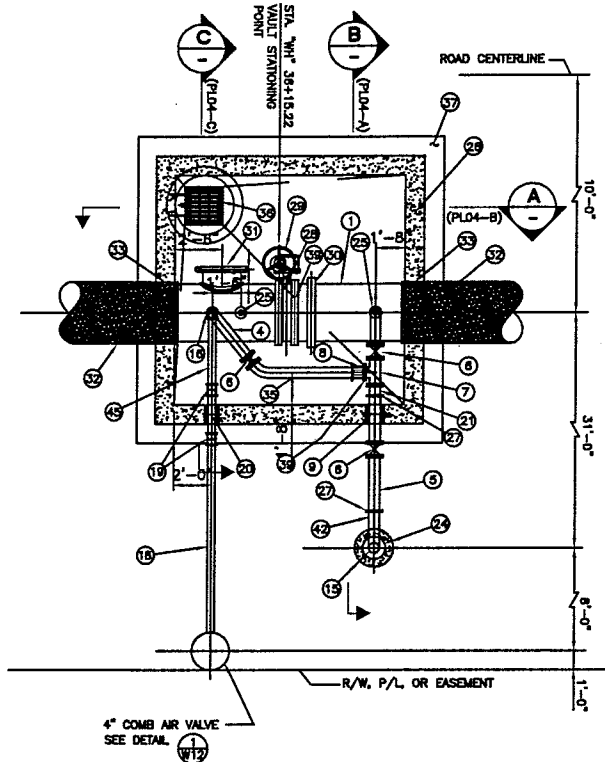
WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
WATER LINE PLAN AND PROFILE
"WDG" 11+22.72 TO "WDG" 15+54.42
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

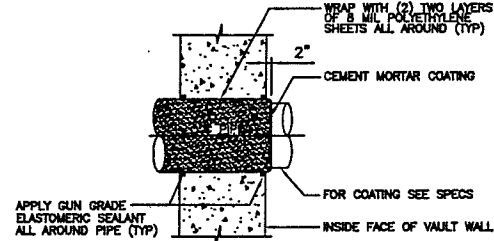
PROJECT NO: 851 DRAWN BY: RR
DESIGNED BY: DPW CHECKED BY: MJP
APPROVED BY: TDL
 THE LOUIS BERGER GROUP, INC.
LAS VEGAS, NEVADA

SCALE
HORIZ: AS SHOWN
VERT: AS SHOWN
FIELD BOOK

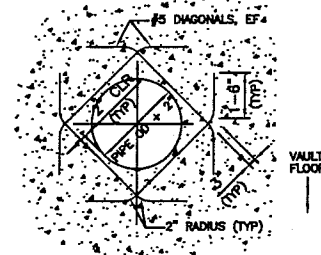
DRAWING NO.
W9
OF
L-1695



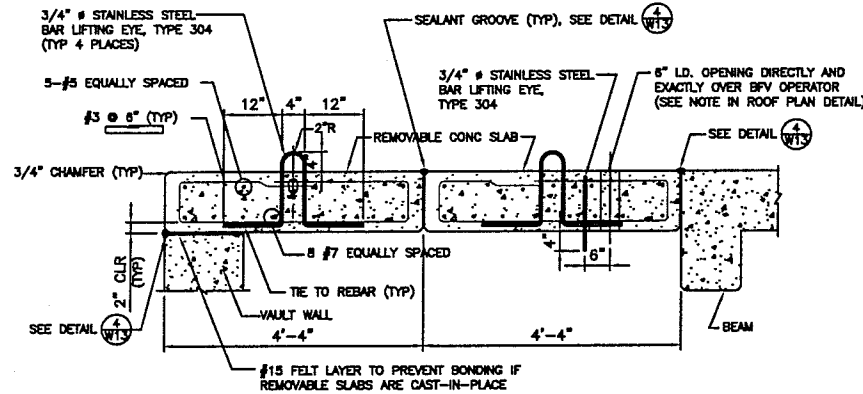
STA. XX+XXXX
PIPING PLAN - MECHANICAL COUPLING
SCALE: 1/4" = 1'-0"
PL04-1 022801 W10



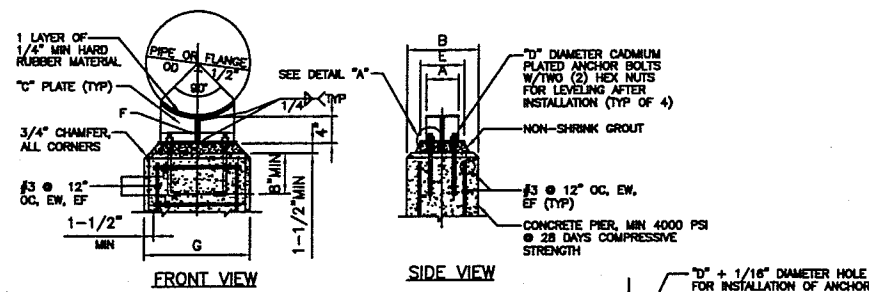
WALL PENETRATION DETAIL
NOT TO SCALE
PL05-2 020501 W10



WALL OPENING - DIAGONAL
REINFORCEMENT DETAIL
NOT TO SCALE
PL03-4 022801 W10

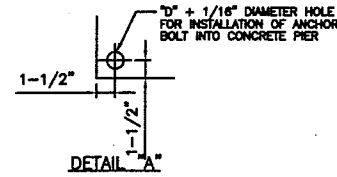


REMOVABLE CONCRETE SLAB SECTION
NOT TO SCALE
PL03-C 022801 W10

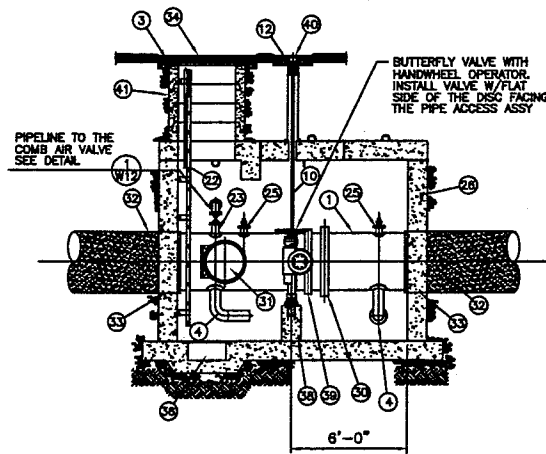


NOTE: GALVANIZE ASSEMBLY AFTER WELDING FABRICATION.

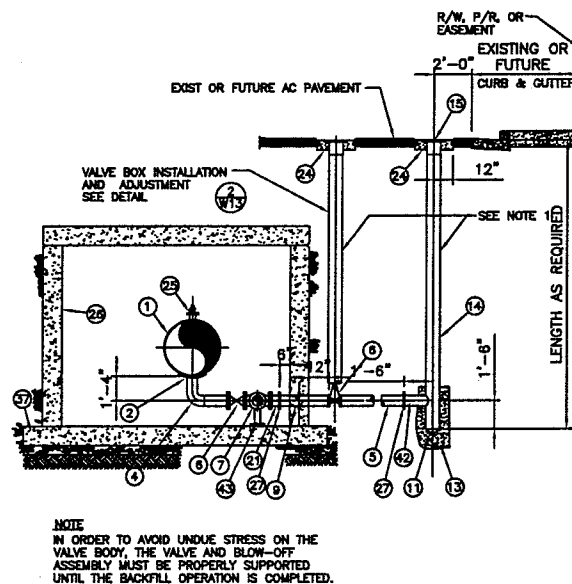
NOMINAL PIPE SIZE	PIPE SUPPORT TABLE							
	STL CYL PIPE				FLANGE			
	A	B	C	D	E	F	G	H
42"	6"	18"	1/2"	1"	8"	32"	38"	44"



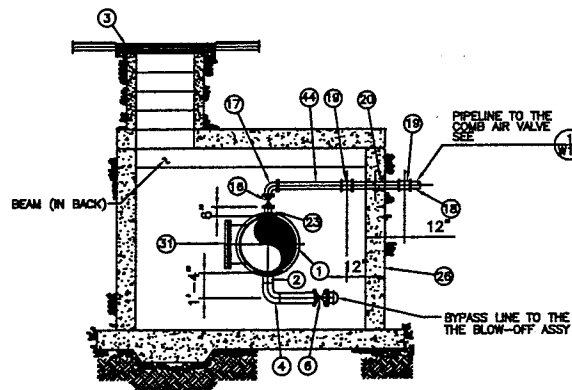
PIPE SUPPORT DETAIL
NOT TO SCALE
PL05-1 022801 W10



PIPING PROFILE SECTION - MECHANICAL COUPLING
SCALE: 1/4" = 1'-0"
PL04-B 030101 W10



SECTION
SCALE: 1/4" = 1'-0"
PL04-A 022801 W10



SECTION
SCALE: 1/4" = 1'-0"
PL04-C 022801 W10

COMPONENT DESCRIPTIONS - MECHANICAL COUPLING	
ITEM	DESCRIPTION
1	ML STL PIPE, SEE SPECS SEC 02511
2	6" STL OUTLET AND COLLAR PLATE
3	10" THK FORMED CONCRETE COLLAR
4	6" - 90° STL ELBOW W/WELDED SHORT PIECE W/FLANGE
5	6" SCH 40 MLC STL PIPE - FLANGED x GROOVED END
6	6" FLANGED GATE VALVE NRS (W/2" SQ. OPERATING NUT FOR GATE VALVE OUTSIDE OF VAULT) SEE SPECS SEC 15205
7	6" STL FLANGED TEE
8	6" FLANGED COUPLING ADAPTER W/ THRUST RESTRAINT - SEE SPECS SEC 15225
9	6" SCH 40 FABR STL MLC WALL SPOOL - FLANGED x GROOVED ENDS W/WALL FLANGE.
10	1-1/4" VALVE OPERATOR STEM EXTENSION W/UNIVERSAL JOINT, GOES UP THROUGH ROOF TO STREET, SEE DETAIL [1] ON DWG [W13]
11	8" SCH 30 MLC STL BUMPED HEAD
12	2" SQ OPERATING NUT
13	ENCASE BUMPED HEAD IN CONCRETE 4" MIN ALL AROUND
14	8" SCH 30 MLC STL PIPE
15	BLOW-OFF COVER ASSEMBLY, SEE DETAIL [1] ON DWG [W14]
16	4" FLANGED GATE VALVE, SEE SPECS SEC 15205
17	4" - 90° WELDED FLANGED STL ELBOW
18	4" DIP PC350 OR 4" PVC CL150 DR18 PIPE
19	4" SLEEVE TYPE COUPLING - SEE SPECS SEC 15225
20	4" SCH 40 FABRICATED STL MLC WALL SPOOL - PLAIN ENDS W/WALL FLG
21	6" SCH 40 MLC STL PIPE - FLANGED x GROOVED
22	GALVANIZED CARBON STEEL LADDER
23	4" FLANGED STL OUTLET
24	24" DIA x 10" THK CONCRETE COLLAR CONCRETE TO BE 1/8" TO 1/4" BELOW FINAL PAVEMENT GRADE
25	CORP STOP, SEE DETAIL [6] ON DWG [W13]
26	VAULT WALL
27	6" MECHANICAL COUPLING - SEE SPECS SEC 15225
28	BUTTERFLY VALVE - SEE SPECS SEC 15205
29	BUTTERFLY VALVE OPERATOR - SEE SPECS SEC 15205
30	MECHANICAL TYPE COUPLING - SEE SPECS SEC 15225
31	24" ACCESS MANWAY, SEE ACCESS MANHOLE ASSEMBLY DETAILS ON DWG [W15]
32	MLC STL PIPE, SEE SPECS SEC 02511
33	WALL PENETRATION, SEE DETAIL [2] ON THIS SHEET
34	36" C.I. MANHOLE FRAME, SEE SECTION [B] ON DWG [W11]
35	6" SCH 40 ML STL PIPE - PLAIN END x PLAIN END AND WELDED W/45° (PLAIN END x FL) BEND BYPASS LINE TO BLOW-OFF ASSEMBLY
36	2" SQ. SUMP, SEE SECTION [B] ON DWG [W11]
37	CONCRETE FOOTING, SEE SECTION [B] ON DWG [W11]
38	PIPE SUPPORT, SEE DETAIL [5] ON THIS SHEET
39	INSULATING FLANGE, SEE DETAIL [5] ON DWG [W13]
40	VALVE BOX ON VAULT, SEE DETAIL [1] ON DWG [W13]
41	36" PRECAST MANHOLE RINGS, SEE SECTION [B] ON DWG [W11]
42	6" SCH 40 MLC STL PIPE - GROOVED x PLAIN END WELDED TO 8" STL PIPE
43	ADJUSTABLE PIPE SUPPORT, SEE SPECS SEC 15225
44	4" SCH 40 ML STL PIPE - FLANGED x PLAIN END



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
42 INCH VALVE VAULT PIPING PLAN AND
STRUCTURAL DETAILS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

PROJECT NO: 851 DRAWN BY: WFD
 DESIGNED BY: DPW CHECKED BY: MJP
 APPROVED BY: TDL
THE LOUIS BERGER
GROUP, INC.
 LAS VEGAS, NEVADA

SCALE
 HORIZ: NONE
 VERT: NONE
 FIELD BOOK
 DRAWING NO.
W10
 OF
 L-1695

REV.	NO.	DATE	DESCRIPTION	APPROVED

REFERENCE FILES:

FILE NAME: V:\ASSET\ANN RD TO EL CAPITAN\INTERM\WATER\DETAILS\866-wd-02.dwg 04/9/02 RR

REV. NO	DATE	DESCRIPTION	APPROVED



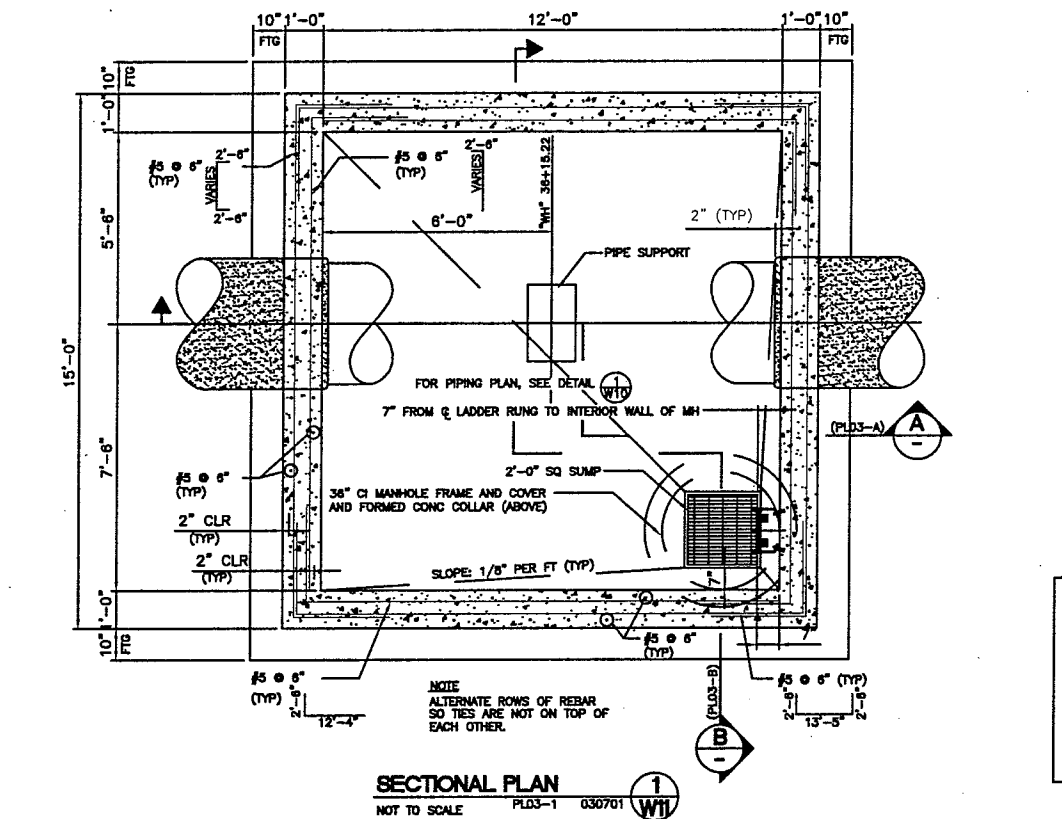
WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
42 INCH VALVE VAULT AND
STRUCTURAL DETAIL
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

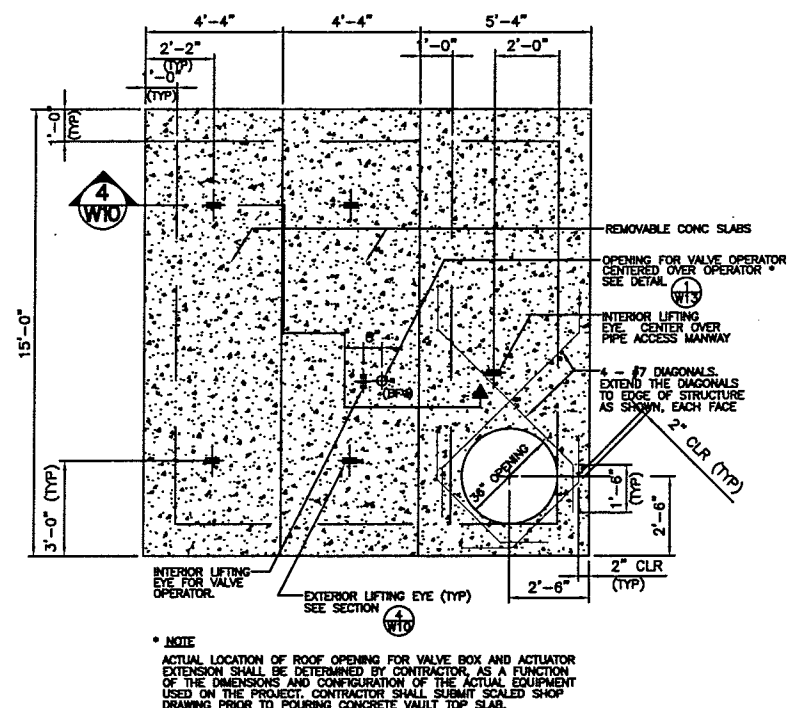
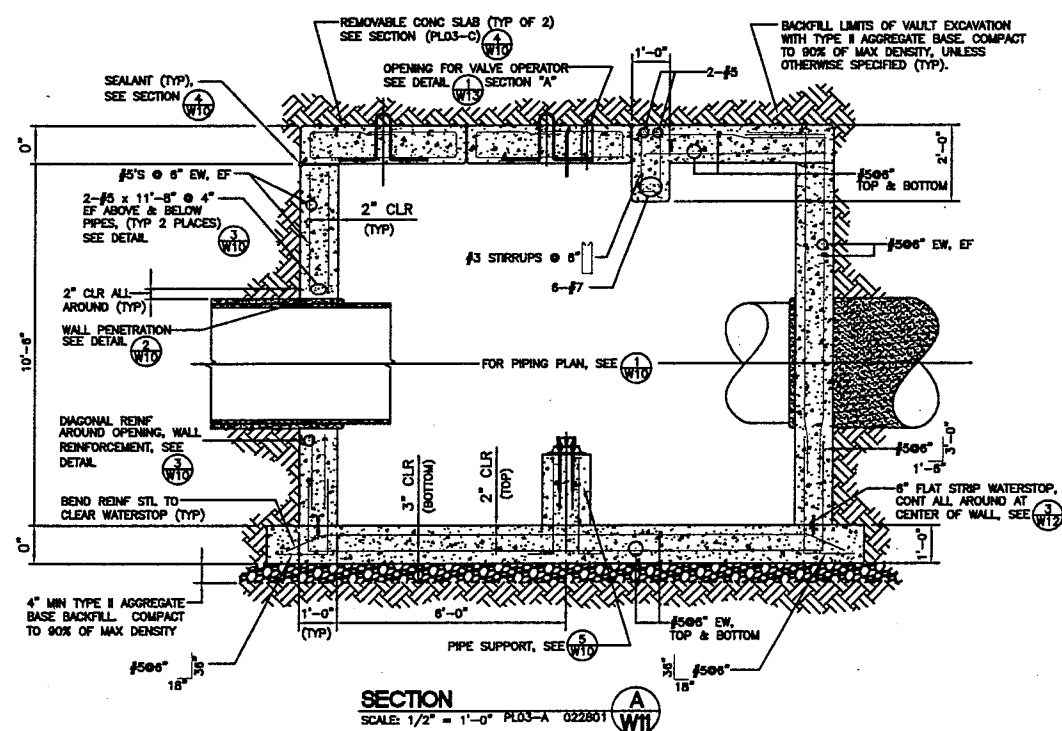
PROJECT NO: 851 DRAWN BY: WFD
DESIGNED BY: DPW CHECKED BY: MJP
APPROVED BY: TDL
THE LOUIS BERGER GROUP, INC.
LAS VEGAS, NEVADA

SCALE
HORIZ: NONE
VERT: NONE
FIELD BOOK

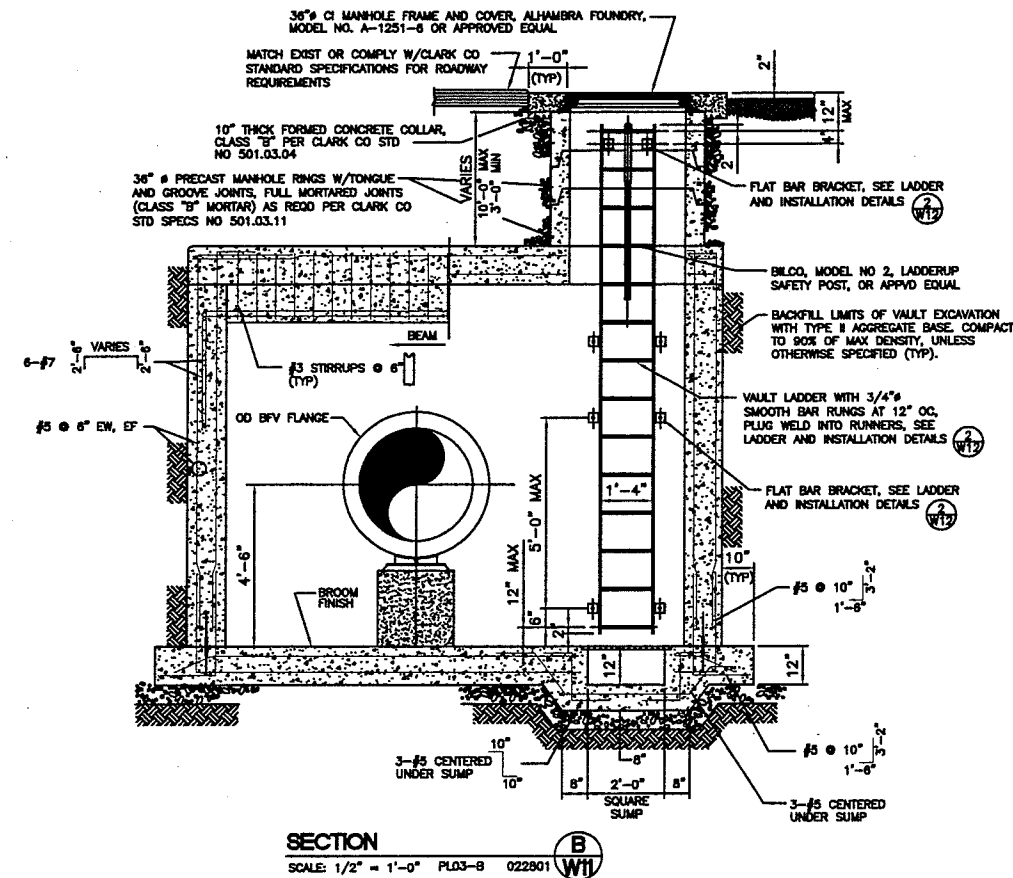
DRAWING NO.
W11
OF
L-1695



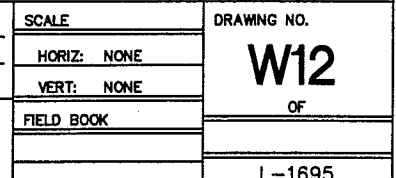
- NOTES
1. CONCRETE FOR VAULT STRUCTURES SHALL BE 4000 PSI, UNLESS OTHERWISE SPECIFIED.
 2. PIPE OUTLET SHALL BE SHAPED TO FIT THE SPECIFIED PIPE DIAMETER.
 3. MAINTAIN A MIN CLEARANCE OF 2" OF COVER FOR REINFORCED STEEL, UNLESS OTHERWISE SPECIFIED.
 4. BACKFILL LIMITS OF VAULT EXCAVATION (INCLUDING BELOW VAULT FLOOR) WITH TYPE II AGGREGATE BASE, COMPACT TO 90% OF MAX DENSITY, UNLESS OTHERWISE SPECIFIED.



ROOF PLAN
NOT TO SCALE



SECTION
SCALE: 1/2" = 1'-0"



REV. NO	DATE	DESCRIPTION	APPROVED

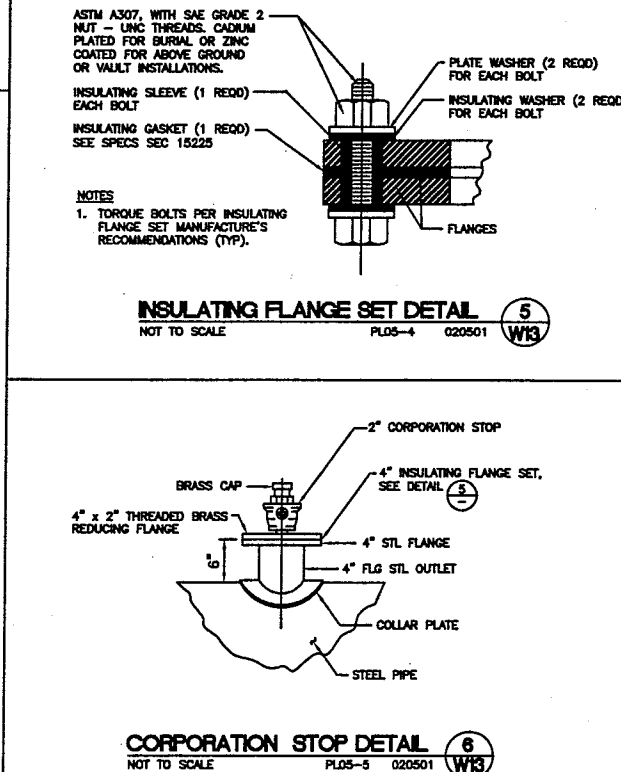
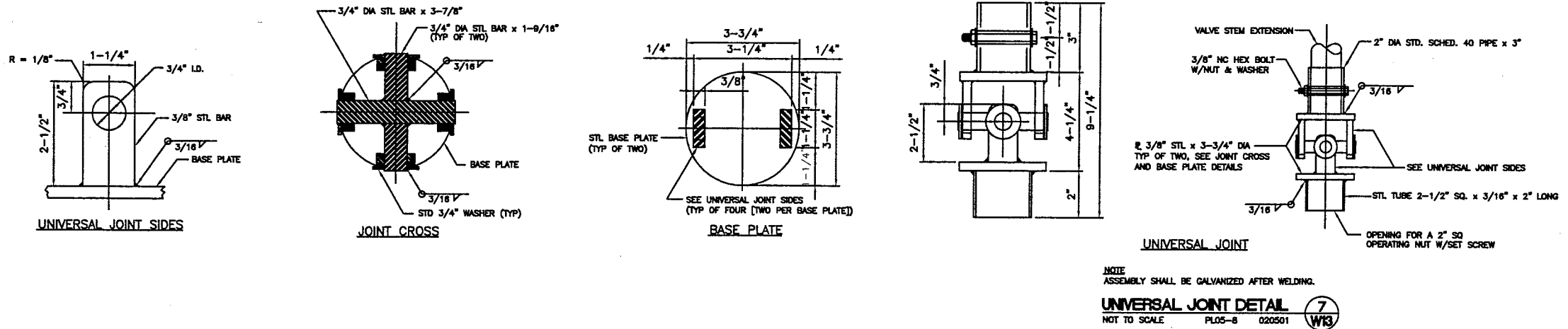
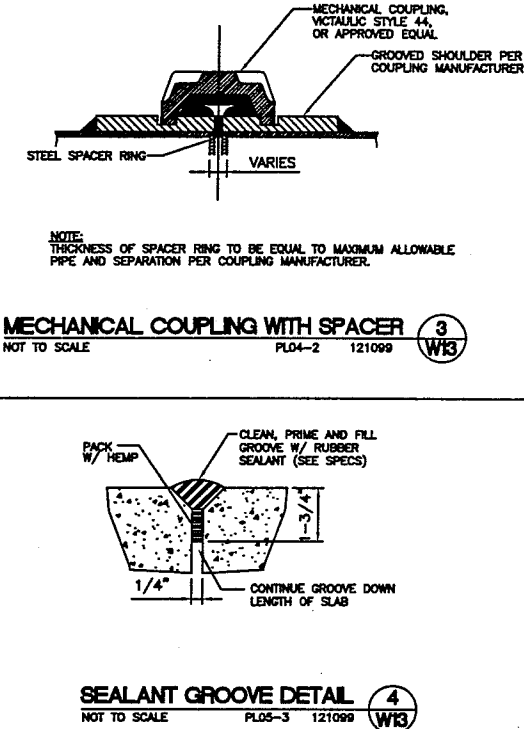
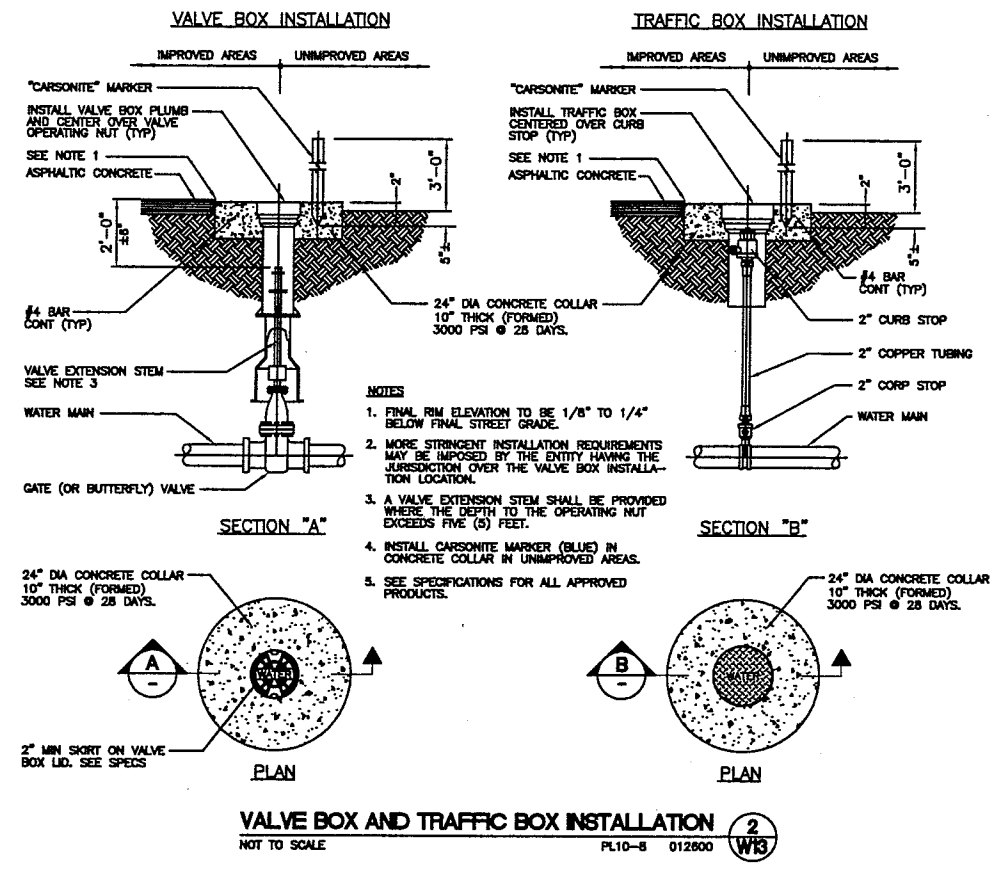
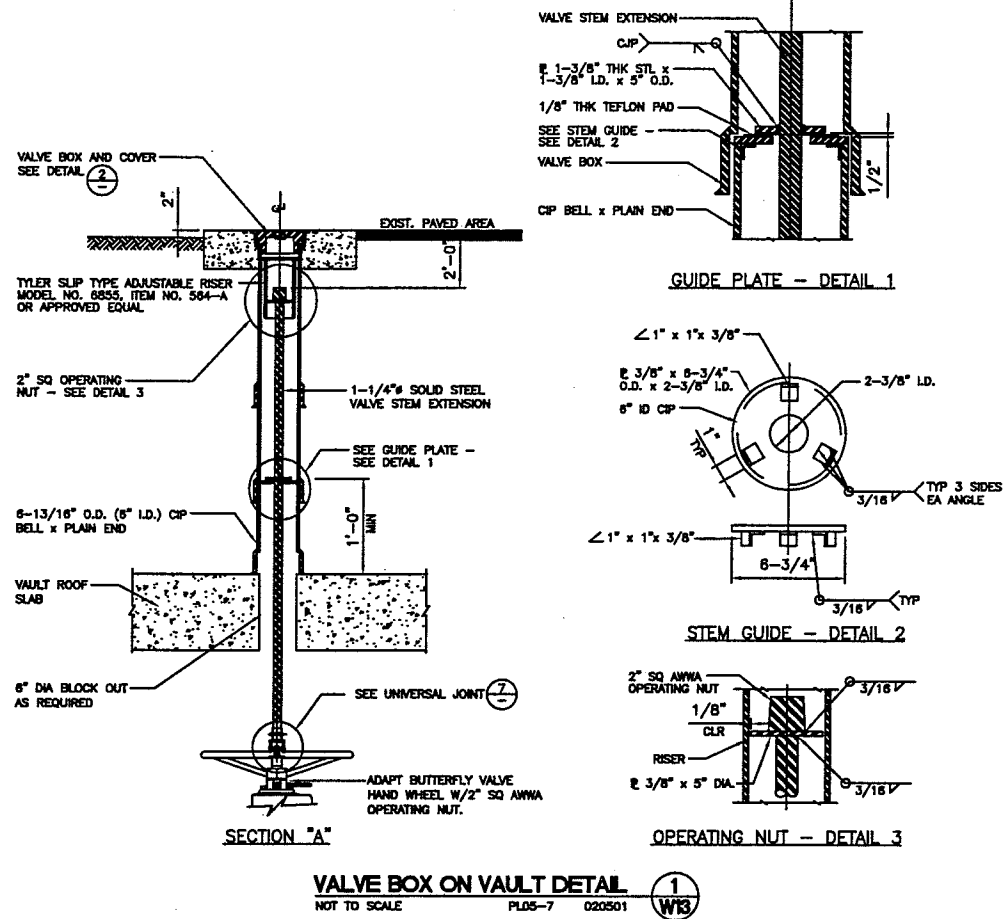


WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY **VALVE BOX AND MISCELLANEOUS** **DETAILS** CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

PROJECT NO: 851	DRAWN BY: WFD	SCALE:	DRAWING NO.
DESIGNED BY: DPW	CHECKED BY: MJP	HORIZ: NONE	W13
APPROVED BY: TDL		VERT: NONE	OF
		FIELD BOOK	
			L-1695

THE LOUIS BERGER GROUP, INC.
LAS VEGAS, NEVADA



REFERENCE FILES:

FILE NAME: V:\851 ANN RD TO EL CAPITAN\INTERWATER\DETAILS\866-wd-05.dwg 04/19/02 RR

REV.	NO.	DATE	DESCRIPTION	APPROVED



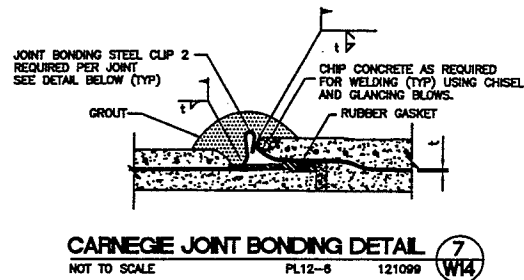
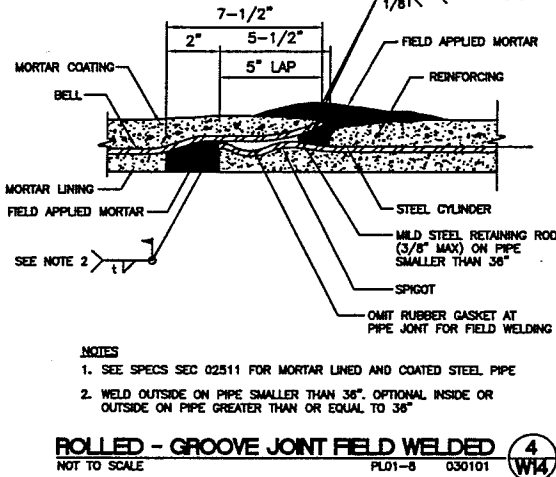
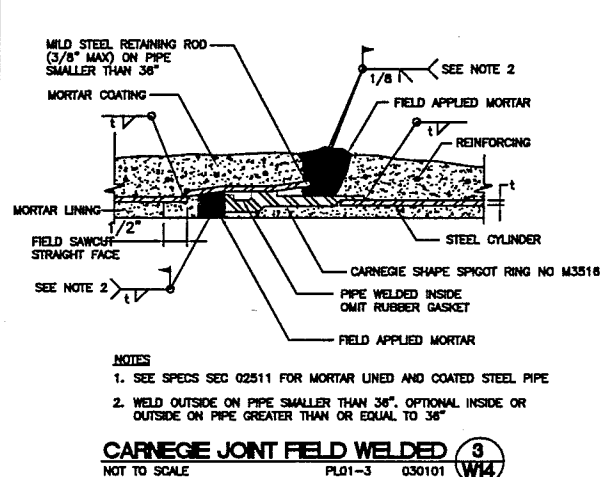
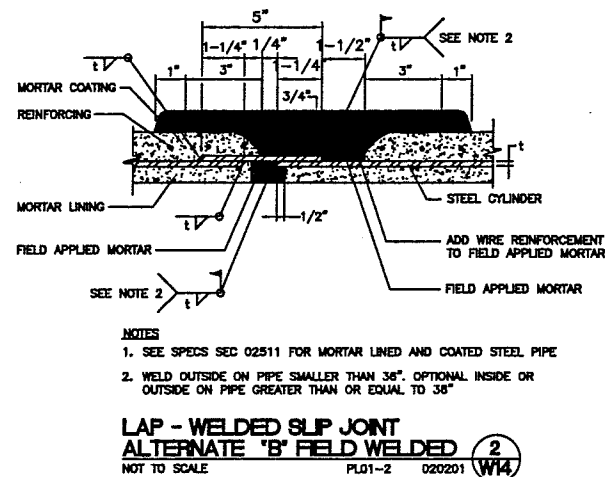
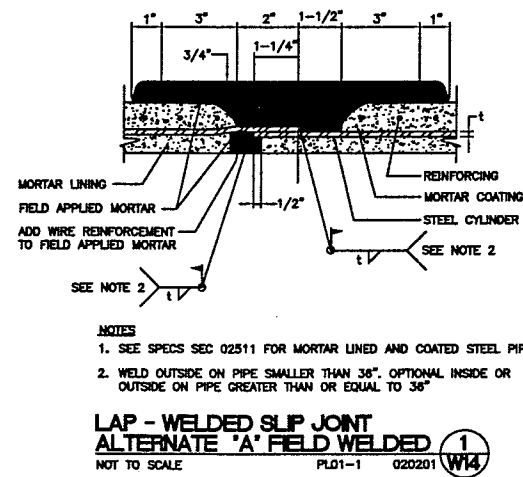
WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
BLOW-OFF ASSEMBLY AND PIPE JOINT
DETAILS
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

PROJECT NO: 851 DRAWN BY: WFD
DESIGNED BY: DPW CHECKED BY: MJP
APPROVED BY: TDL
THE LOUIS BERGER GROUP, INC.
LAS VEGAS, NEVADA

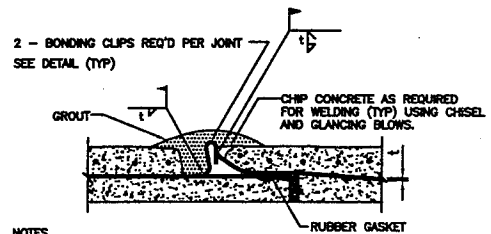
SCALE
HORIZ: NONE
VERT: NONE
FIELD BOOK

DRAWING NO.
W14
OF
L-1695



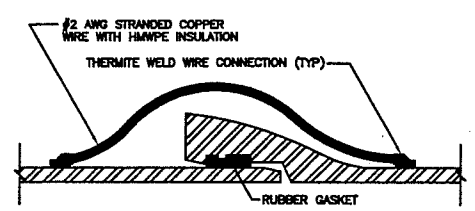
1. STEEL BONDING CLIP: MATERIAL SPECIFICATION: ASTM A366 (COMMERCIAL QUALITY) CUT LENGTH: 2-1/2" ± 1/16" WIDTH: 1-1/4" ± 1/16"
2. LYTHERM FILLER STRIP TO BE 1' x 1-1/2" WIDE TO OVERLAP SIDES OF CLIP
3. CRIMP THE STEEL JOINT BONDING CLIP OVER THE LYTHERM FILLER STRIP AT PT "A" TO COMPRESS THE FILLER MATERIAL. CLOSE THE CAP AT PT "A" AS MUCH AS POSSIBLE WITHOUT CUTTING THE LYTHERM FILLER STRIP
4. IF THE LYTHERM FILLER STRIP IS CUT AT PT "A" REMOVE THE ENTIRE STRIP AND REPLACE WITH A NEW LYTHERM FILLER STRIP PER THIS DETAIL
5. INSTALL THE STEEL BONDING CLIPS ALONG THE TOP PORTION OF THE PIPE

BONDING CLIP DETAIL
NOT TO SCALE PL12-7 012301 W14



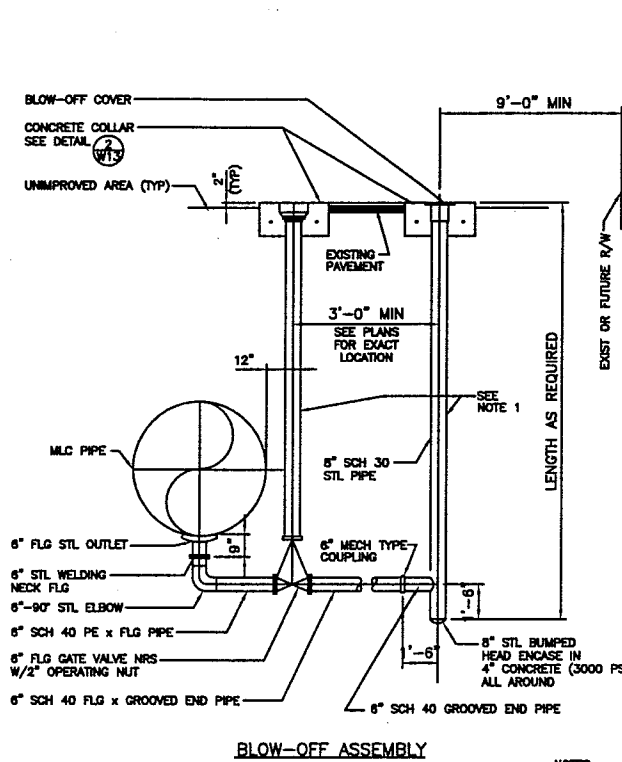
- NOTES
1. JOINT BONDING IS REQUIRED AT ALL BELL AND SPIGOT RUBBER GASKET JOINTS EXCEPT FOR FIELD WELDED JOINTS.
2. FOR JOINT BONDING INSTALLATIONS USING STRANDED COPPER BONDING CABLES, MAINTAIN A MIN. OF 4 TO 6 INCHES OF SLACK BETWEEN THE BONDING CABLE POINTS OF ATTACHMENT.

ROLLED - GROOVE JOINT BONDING DETAIL
NOT TO SCALE PL12-8 121699 W14



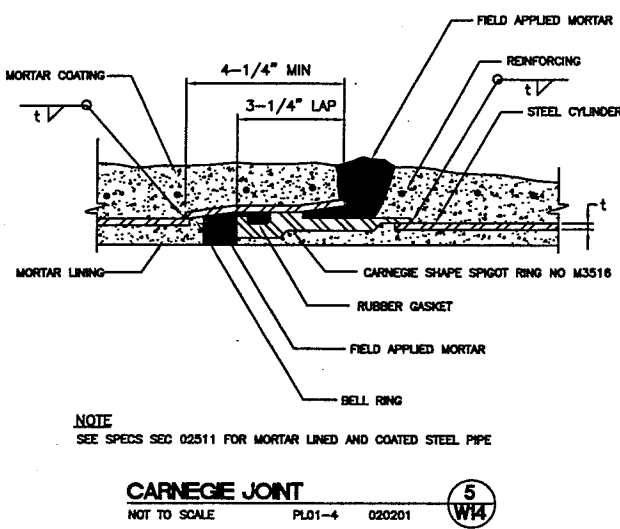
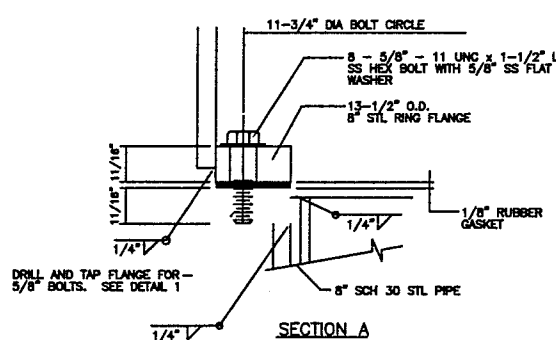
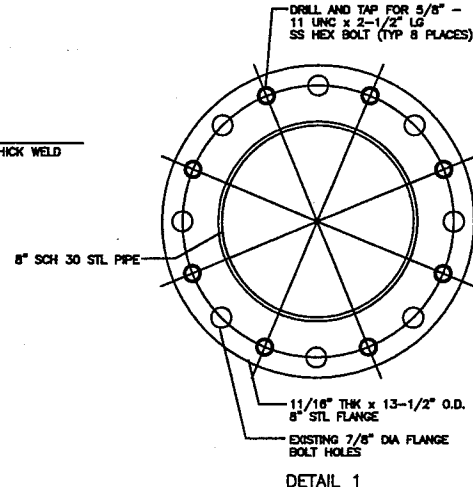
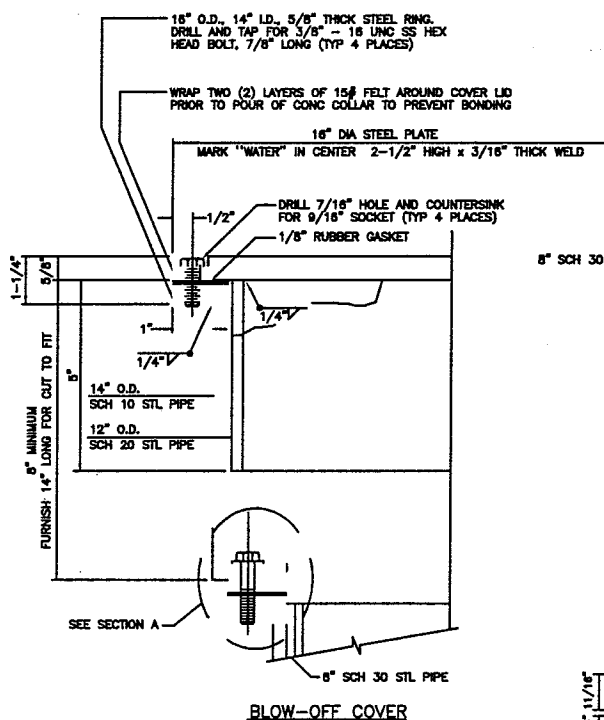
NOTE
INSTALL TWO BOND WIRES AT EACH PIPE JOINT.

PUSH-ON JOINT BOND DETAIL DUCTILE IRON PIPE
NOT TO SCALE PL12-9 022801 W14

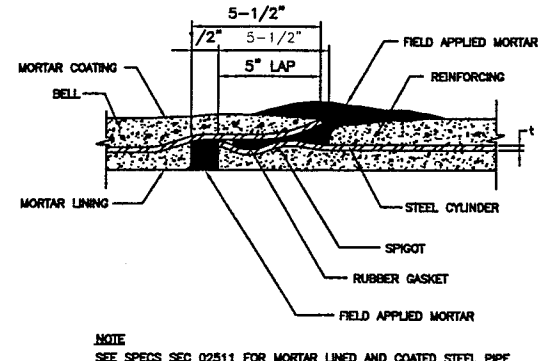


- NOTES
1. IN ORDER TO AVOID UNDEQ STRESS ON THE VALVE BOX, VALVE AND BLOW-OFF ASSEMBLY THEY MUST BE PROPERLY SUPPORTED UNTIL THE BACKFILL OPERATION IS COMPLETED.
2. ALL 6" AND 8" STEEL PIPES AND FITTINGS SHALL HAVE CEMENT MORTAR LINING AND COATING.
3. ALL CONCRETE TO BE 1/8" TO 1/4" BELOW FINAL STREET GRADE.

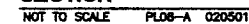
BLOW-OFF ASSEMBLY AND COVER DETAIL
NOT TO SCALE PL09-2 120600 W14



CARNEGIE JOINT
NOT TO SCALE PL01-4 020201 W14



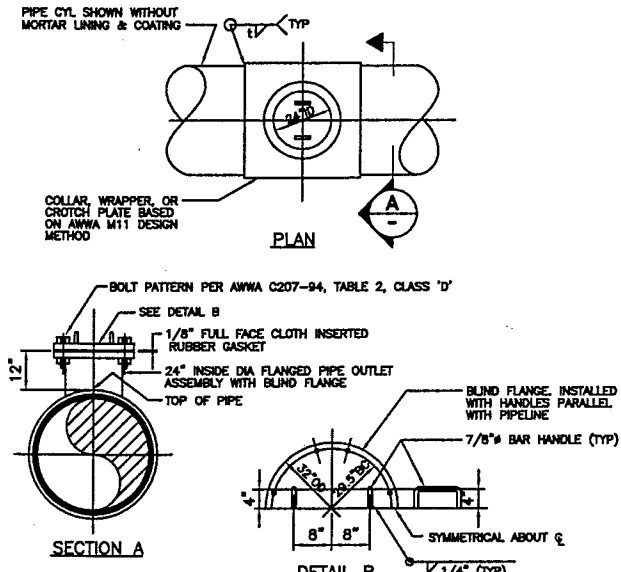
ROLLED - GROOVE RUBBER GASKET JOINT
NOT TO SCALE PL01-5 020201 W14



CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

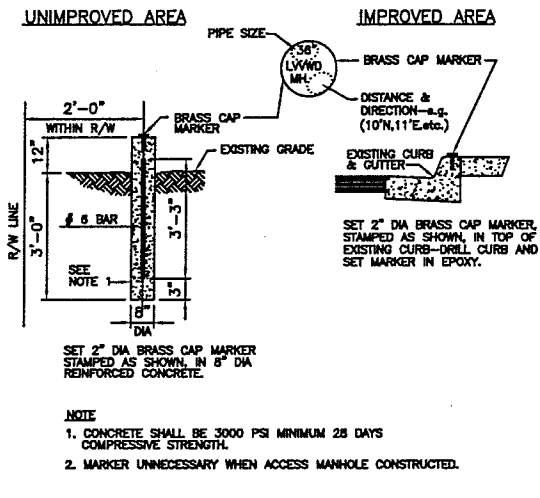
DRAWING NO.
W15
OF
L-1695

WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY



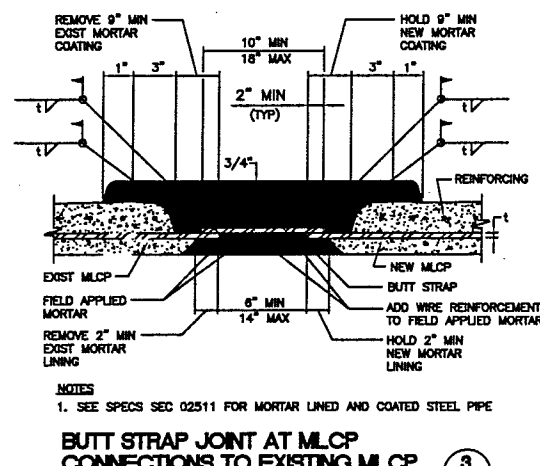
PIPE ACCESS ASSEMBLY (1)
NOT TO SCALE PL10-8 012301 W16

NOTES
1. COAT BURIED EXPOSED METAL SURFACES WITH 1" THICK CEMENT MORTAR, REINFORCED WITH 1/2" x 1/2" NO 12 GAUGE WELDED WIRE MESH AND WRAP WITH TWO (2) SHEETS OF POLYETHYLENE SHEETING.
2. PIPE ACCESS IS INTENDED FOR USE DURING CONSTRUCTION ONLY.



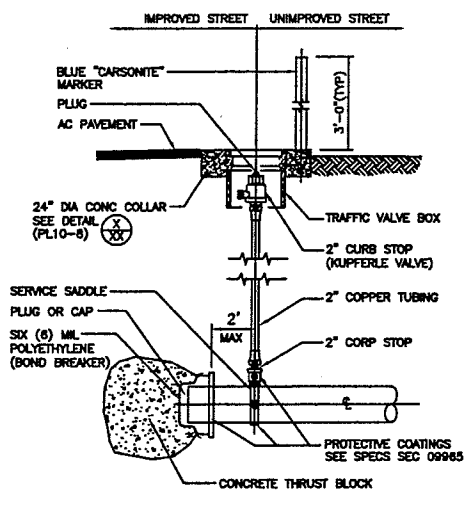
PIPE ACCESS ASSEMBLY MARKER (2)
NOT TO SCALE PL10-7 012301 W16

NOTE
1. CONCRETE SHALL BE 3000 PSI MINIMUM 28 DAYS COMPRESSIVE STRENGTH.
2. MARKER UNNECESSARY WHEN ACCESS MANHOLE CONSTRUCTED.



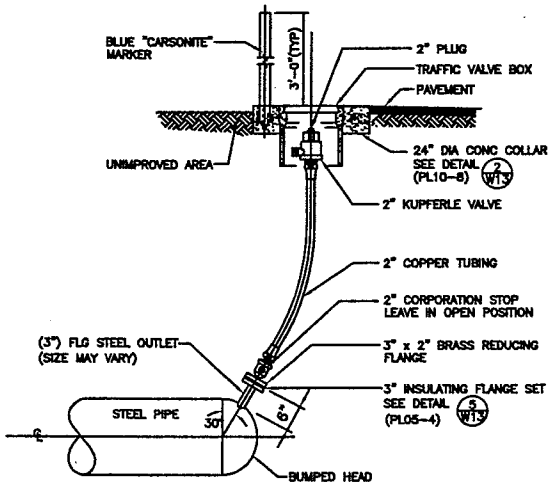
BUTT STRAP JOINT AT MLCP CONNECTIONS TO EXISTING MLCP (3)
NOT TO SCALE PL10-6 020501 W16

NOTES
1. SEE SPECS SEC 02511 FOR MORTAR UNED AND COATED STEEL PIPE



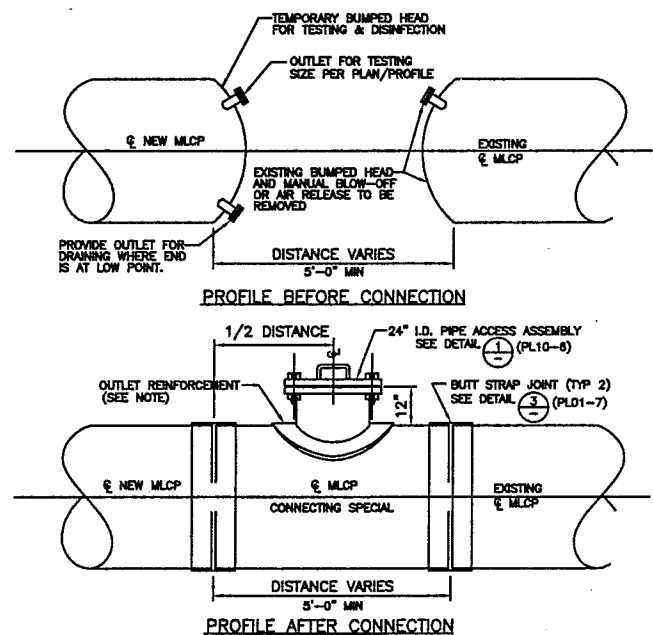
MANUAL AIR RELEASE ASSEMBLY (4)
NOT TO SCALE PL10-4 070201 W16

NOTES
1. ALL COPPER TUBING SHALL BE WRAPPED WITH TWO LAYERS OF SIX (6) MIL POLYETHYLENE.
2. ALL COPPER TUBING SHALL BE BACKFILLED ALL AROUND WITH 4" MINIMUM OF SAND.



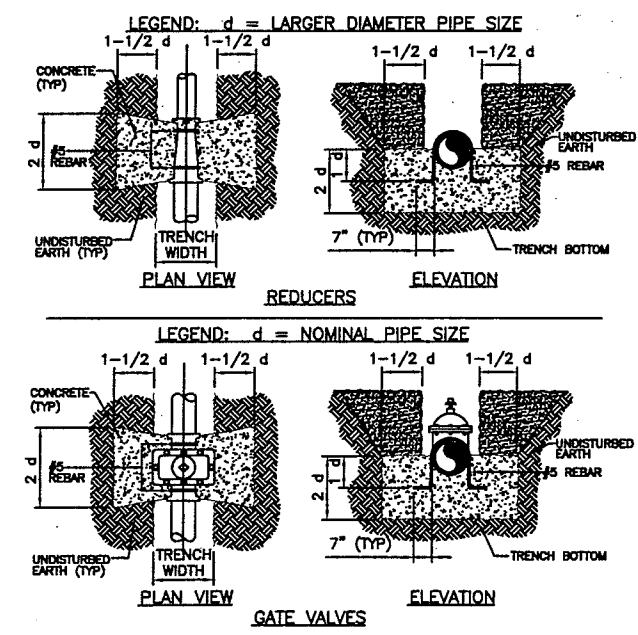
MANUAL AIR RELEASE ASSEMBLY (STEEL PIPE) (5)
NOT TO SCALE PL10-2 012301 W16

NOTES
1. ALL COPPER TUBING SHALL BE WRAPPED WITH TWO LAYERS OF SIX (6) MIL POLYETHYLENE.
2. ALL COPPER TUBING SHALL BE BACKFILLED ALL AROUND WITH 4" MINIMUM OF SAND.



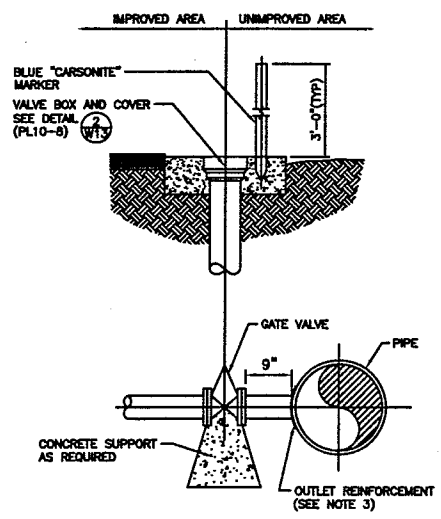
CONNECTION OF NEW PIPE TO EXISTING PIPE FOR MLCP ONLY (6)
NOT TO SCALE PL10-1 020501 W16

NOTE
1. OUTLET REINFORCEMENT SHALL BE DETERMINED PER AWWA M11 DESIGN METHOD.
2. SEE SPECS SEC 02511 FOR MORTAR UNED AND COATED STEEL PIPE



ANCHOR BLOCK DETAILS FOR IN-LINE REDUCERS AND GATE VALVES (7)
NOT TO SCALE PL11-2 012301 W16

NOTES
1. ALL CONCRETE SHALL BE 3000 PSI MINIMUM 28 DAYS COMPRESSIVE STRENGTH
2. ALL VALVES AND EXPOSED REBAR TO BE COATED AND WRAPPED IN ACCORDANCE WITH SECTION 09985 OF THE LVWD SPECS, PROTECTIVE COATINGS.



VALVED OUTLET DETAIL (8)
NOT TO SCALE PL10-5 013001 W16

NOTES
1. INSTALL VALVES CLOSED AND OPEN DURING TEST.
2. COAT AND WRAP OUTLET, VALVE AND PLUG. SEE SPECS SEC 09985.
3. OUTLET REINFORCEMENT SHALL BE DETERMINED PER AWWA M11 DESIGN METHOD.

REFERENCE FILES

FILE NAME: V:\B51 ANN RD TO EL CAPITAN\INTERWATER\DETAILS\B66-wd-09.dwg 04/9/02 RR

REV.	NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
PIPE ACCESS MLCP CONNECTION, MANUAL RELEASE, VALVED OUTLET AND ANCHOR BLOCK DETAILS
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

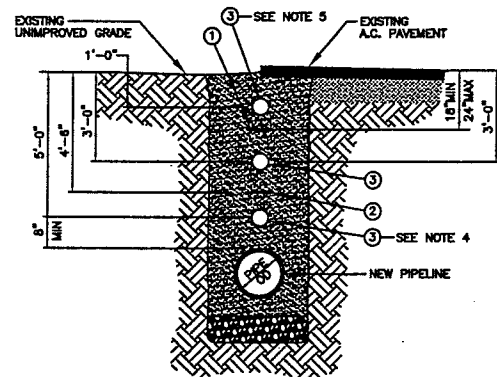
90%
PRELIMINARY
4-12-02

PROJECT NO: 851 DRAWN BY: WFD
DESIGNED BY: DPW CHECKED BY: MJP
APPROVED BY: TDL
THE LOUIS BERGER GROUP, INC.
LAS VEGAS, NEVADA

SCALE	DRAWING NO.
HORIZ: NONE VERT: NONE FIELD BOOK	W16 OF L-1695

REFERENCE FILES

FILE NAME: V:\851 ANN RD TO EL CAPITAN\INTERM\WATER\DETAILS\866-wd-04.dwg 04/9/02 RR



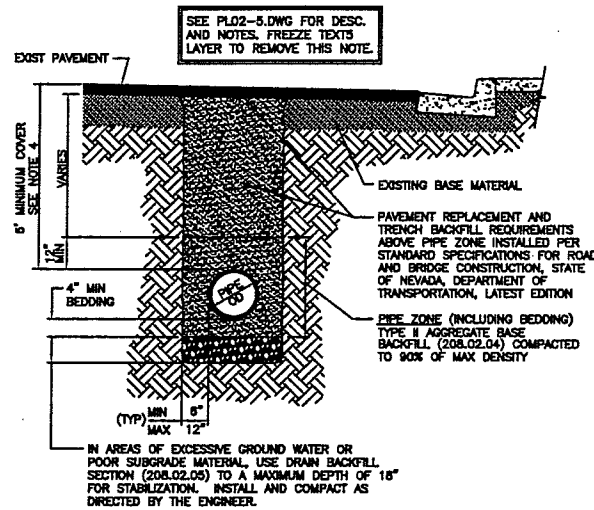
1. PIPE LOCATOR RIBBON - 3" WIDTH
2. PIPE LOCATOR RIBBON - 3" WIDTH (INSTALLED WHEN COVER OF NEW PIPELINE IS 7'-0" OR GREATER)
3. MARKER BALL - SEE NOTES

NOTES

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

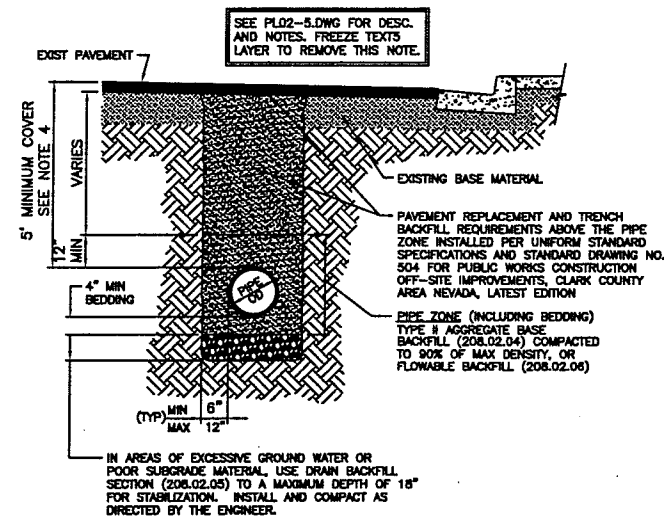
PIPE LOCATOR RIBBON AND MARKER BALL INSTALLATION

NOT TO SCALE PL02-8 011201 W17



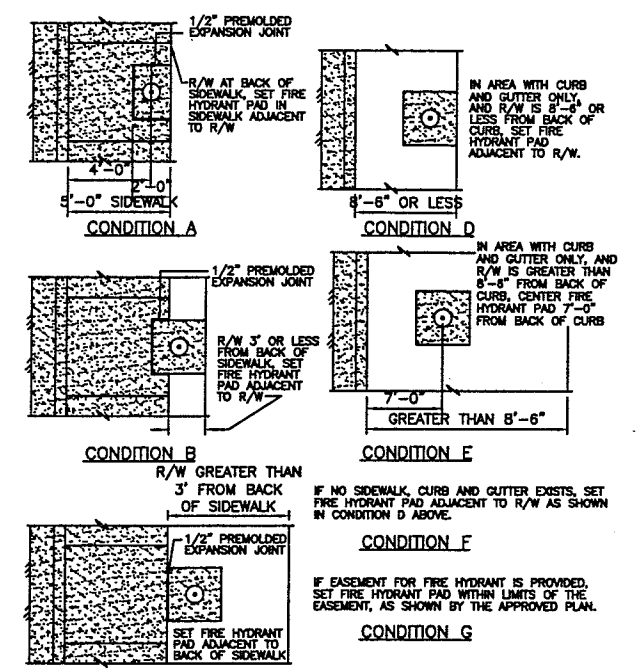
TRENCH BACKFILL - PAVED AND UNPAVED AREAS (NDOT R/W)

NOT TO SCALE PL02-4 010201 W17



TRENCH BACKFILL - PAVED AREAS (STREETS GREATER THAN 60' R/W)

NOT TO SCALE PL02-2 010201 W17



FIRE HYDRANT LOCATION

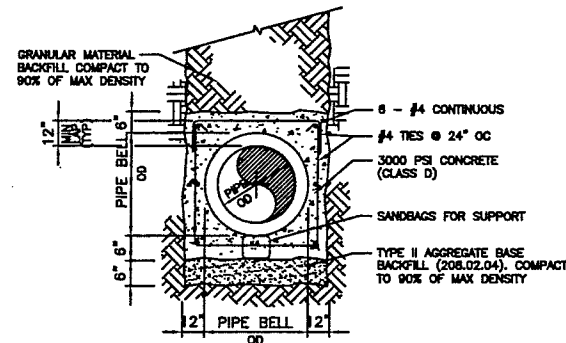
NOT TO SCALE PL15-2 121099 W17

NOTES FOR PAVED AND UNPAVED AREAS

PL02-5 020501

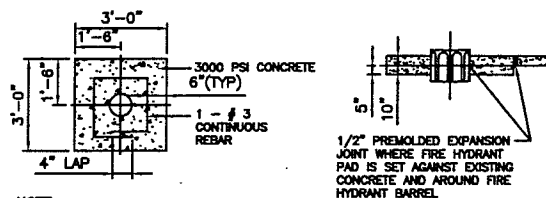
1. ACCEPTABLE METHODS OF COMPACTION

- A. BEDDING AND PIPE ZONE AREAS**
FLOODING AND JETTING OR MECHANICAL COMPACTION. (NEVADA DEPARTMENT OF TRANSPORTATION RIGHT OF WAY MECHANICAL COMPACTION ONLY)
 - B. ABOVE PIPE ZONE**
FLOODING AND JETTING OR MECHANICAL COMPACTION. MECHANICAL COMPACTION ONLY FOR A MINIMUM OF TOP 18" IN PAVED AREAS (NEVADA DEPARTMENT OF TRANSPORTATION RIGHT OF WAY MECHANICAL COMPACTION ONLY)
- TRENCH EXCAVATION:** COMPLY WITH THE CURRENT REGULATIONS AS DETERMINED BY NEVADA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.
 - REFERENCE:** UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA NEVADA, LATEST EDITION.
 - MINIMUM COVER** IS REFERENCED TO FUTURE FINISHED FINAL GRADES UNLESS OTHERWISE SHOWN ON PROFILE DRAWINGS.
 - SUPPORT PIPE** WITH SANDBAGS AND SPOT LOAD PIPE AS REQUIRED DURING INSTALLATION OF FLOWABLE BACKFILL IN PIPE ZONE AND PIPE BEDDING AREAS.



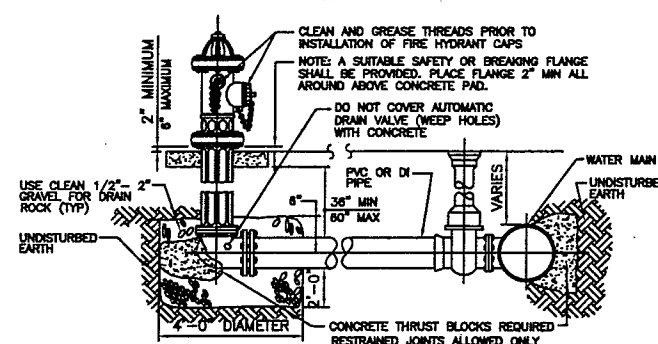
REINFORCED CONCRETE ENCASEMENT

NOT TO SCALE PL02-8 011201 W17



NOTE FOR LOCATION OF FIRE HYDRANTS, AND FIRE HYDRANT PADS, SEE 4

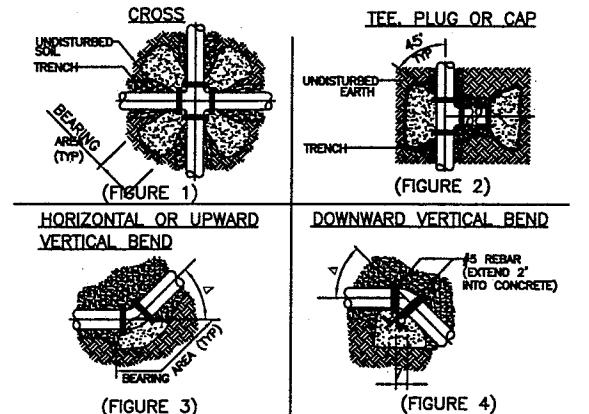
PAD DETAIL



HYDRANT ASSEMBLY DETAIL

FIRE HYDRANT INSTALLATION

NOT TO SCALE PL15-1 030101 W17



GENERAL NOTES

COAT AND WRAP ALL METAL SURFACES IN ACCORDANCE WITH SECTION 09065 OF THE LVMW SPEC. PROTECTIVE COATINGS. ALL CONCRETE SHALL BE 3000 PSI MINIMUM, 28 DAYS COMPRESSIVE STRENGTH. CONCRETE IS TO BE PLACED IN UNDISTURBED EARTH. TABLE BELOW DENOTES MINIMUM BEARING AREA OR VOLUME OF THRUST BLOCK. SPECIAL DESIGN CALCULATIONS ARE TO BE SUBMITTED TO LVMW 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				CONC/CU YDS			
	FIGURE 1	FIGURE 2	FIGURE 3, Δ	FIGURE 4, Δ	FIGURE 3, Δ	FIGURE 4, Δ	FIGURE 3, Δ	FIGURE 4, Δ
1"	1	2	90°	45°	22 1/2'	11 1/2'	1.0	0.5
4"	2	2	2	1	1	1	1.0	0.5
6"	2	3	4	2	1	1	1.5	0.5
8"	3	5	7	4	2	1	3.0	1.5
10"	4	8	11	8	3	2	4.0	2.5
12"	6	11	15	8	4	2	6.0	3.0
18"	10	20	28	15	8	4	10.5	6.0
18"	13	25	35	19	10	5	13.5	7.5
20"	18	31	44	24	12	6	18.0	9.0
24"	22	44	63	34	17	9	23.5	12.5

THRUST BLOCK INSTALLATION

NOT TO SCALE PL11-1 012301 W17



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
TRENCH, FIRE HYDRANT, ENCASEMENT AND
THRUST BLOCK DETAILS
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

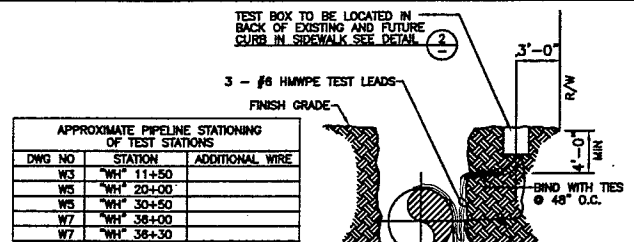
90%
PRELIMINARY
4-12-02

PROJECT NO: 851	DRAWN BY: WFD	SCALE	DRAWING NO.
DESIGNED BY: DPW	CHECKED BY: MJP	HORIZ: NONE	W17
APPROVED BY: TDL		VERT: NONE	OF
		FIELD BOOK	
			L-1695

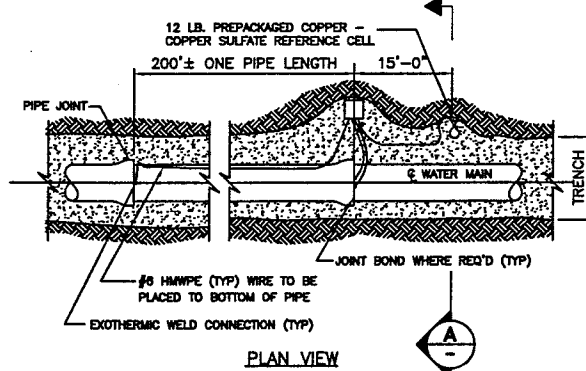
THE LOUIS BERGER GROUP, INC.
LAS VEGAS, NEVADA

REFERENCE FILES:

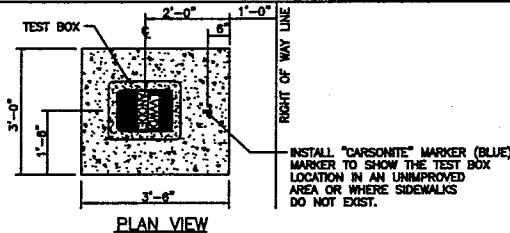
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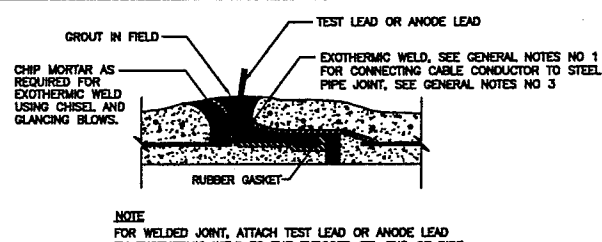
- NOTES
- USE ONLY NATIVE SOIL FREE OF ROCKS AND CLODS FOR BACKFILL AROUND CELLS WITH A MINIMUM OF 5 GALS OF WATER SATURATION DURING INSTALLATION. DO NOT USE SAND AS BACKFILL.
 - SUPPLY ENOUGH WIRE FROM EACH LEAD TO REACH FULL R/W WIDTH PLUS FIVE (5) ADDITIONAL FEET. COIL WIRE IN BOTTOM OF BOX.



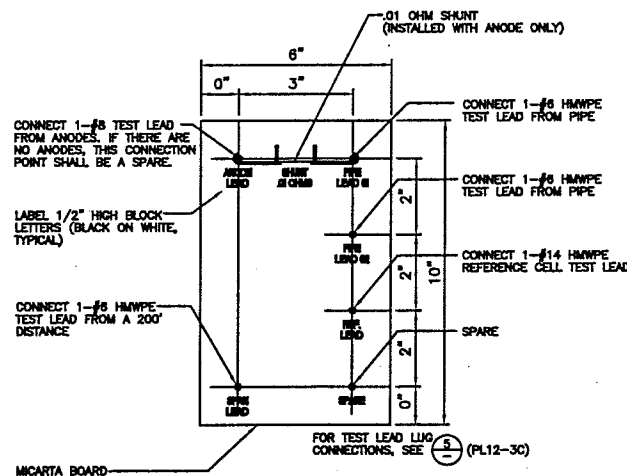
TEST STATION INSTALLATION WITHOUT ANODES
NOT TO SCALE PL12-1 022801 W18



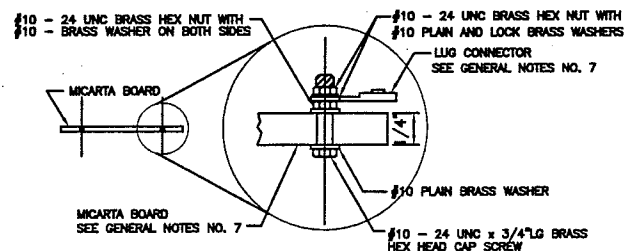
TEST BOX DETAIL - TYPICAL
NOT TO SCALE PL12-2 012301 W18



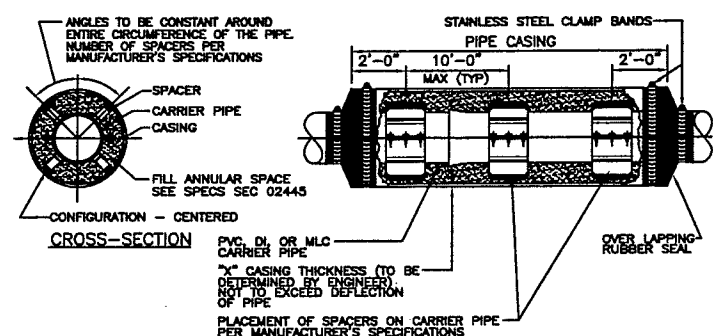
TEST LEAD OR ANODE LEAD CONNECTION TO PIPE JOINT CARNEGIE OR ROLLED-GROOVE DETAIL
NOT TO SCALE PL12-5 121099 W18



STANDARD TEST BOARD INSTALLATION
NOT TO SCALE PL12-3A 020501 W18



TEST BOARD DETAIL - TYPICAL
NOT TO SCALE PL12-3C 022801 W18



DI CARRIER PIPE				MLC CARRIER PIPE			
8" SPACER WIDTH	PIPE SIZE	CASING ID		8" SPACER WIDTH	PIPE SIZE	CASING ID	
12"	24"	24"		12"	24"	24"	
18"	30"	30"		18"	30"	30"	
24"	36"	36"		24"	36"	36"	
30"	42"	42"		30"	42"	42"	
36"	48"	48"		36"	48"	48"	
42"	54"	54"		42"	54"	54"	
48"	60"	60"		48"	60"	60"	
54"	66"	66"		54"	66"	66"	
60"	72"	72"		60"	72"	72"	
66"	78"	78"		66"	78"	78"	
72"	84"	84"		72"	84"	84"	
78"	90"	90"		78"	90"	90"	

- NOTES
- MLC PIPE JOINTS INSIDE PIPE CASING TO BE WELDED. PVC AND DI PIPE JOINTS INSIDE PIPE CASING TO BE RESTRAINED (TYP).
 - INTERIOR OF CASING TO BE GROUND SMOOTH AND LUBRICATED FOR SPACER INSTALLATION.

CASING ASSEMBLY DETAIL
NOT TO SCALE PL08-3 012301 W18

CATHODIC PROTECTION NOTES

PL12-10 012301

- ALL TEST LEADS AND ANODE LEADS SHALL BE ATTACHED TO THE STEEL CYLINDER OF THE PIPE BY MEANS OF A "COWELD" EXOTHERMIC WELD.
- ALL TEST LEADS AND ANODE LEADS SHALL BE ATTACHED TO EITHER THE PIPELINE'S BELL END, SPIGOT END OR PLAIN END AS SHOWN ON THE DRAWING.
- ALL EXPOSED PORTIONS OF THE EXOTHERMIC WELD AND COPPER CABLE CONDUCTORS SHALL BE COATED WITH A SCOTCHCOAT 4 INSULATING RESIN PRIOR TO PLACING GROUT AROUND THE PIPELINE JOINT.
- ALL TEST LEADS AND ANODE LEADS SHALL BE RUN WITHOUT SPLICES FROM THE CONNECTION AT THE PIPE TO THE CONNECTION AT THE TEST STATION BOX.
- ALL TEST LEADS AND ANODE TEST LEADS INSIDE THE TEST BOX SHALL BE BUNDLED TOGETHER AT 8 INCH INTERVALS WITH NYLON CABLE TIES. ALL TEST STATION LEADS SHALL BE PROVIDED WITH SUFFICIENT SLACK SO THAT THE TEST BOARD MAY BE EXTENDED A MINIMUM OF 4 FEET ABOVE THE TEST BOX.
- ALL TEST LEADS AND ANODE LEADS (WIRE INSULATION) ARE COLOR CODED AS FOLLOWS:

TEST STATION LEADS FROM PIPE	
REFERENCE CELL TEST LEADS	WHITE
ANODE TEST LEADS	RED
200' TEST LEAD	GREEN
FOREIGN PIPE LEAD	BLUE
CASING	YELLOW
	BLACK

ALL TEST LEADS AND ANODE LEADS SHALL BE COLOR CODED WITH COLORED WIRE INSULATION (TYP).*

- ** WHEN APPROVED BY DISTRICT ENGINEER COLOR CODED "TAPING" IS PERMITTED IN LIEU OF COLOR CODED WIRES AND SHALL BE INSTALLED AS FOLLOWS:
- ALL WIRE INSULATION SHALL BE ONE UNIFORM COLOR.
 - ALL COLOR CODED TAPE SHALL FOLLOW THE ABOVE COLOR TABLE.
 - TAPE SHALL BE INSTALLED AT EACH END AND 4 FOOT INTERVALS.

- ALL TEST LEADS AND ANODE LEADS SHALL BE CONNECTED TO THE BRASS BOLTS ON THE TEST BOARD WITH SOLDERLESS SCREW TIGHT COPPER LUG CONNECTORS OR PRESSURE TERMINAL CONNECTORS.
- ALL TEST LEADS AND ANODE TEST LEADS SHALL HAVE A MINIMUM OF 4' OF SLACK NEAR THE PIPE JOINT TO PREVENT DAMAGE DURING THE BACKFILL OPERATION.
- ALL TEST LEADS AND ANODE TEST LEADS SHALL BE PLACED ALONG THE SIDE AND BELOW THE SPRINGLINE OF THE PIPE.
- DUAL TEST STATIONS - LABEL ALL WIRES TO DISTINGUISH.
- CABLE ASSEMBLIES SHALL BE USED WHEN PRACTICAL.

WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
CATHODIC PROTECTION AND CASING
DETAILS
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



90%
PRELIMINARY
4-12-02

PROJECT NO: 851 DRAWN BY: WFD
DESIGNED BY: DPW CHECKED BY: MJP
APPROVED BY: TDL
THE LOUIS BERGER
GROUP, INC.
LAS VEGAS, NEVADA

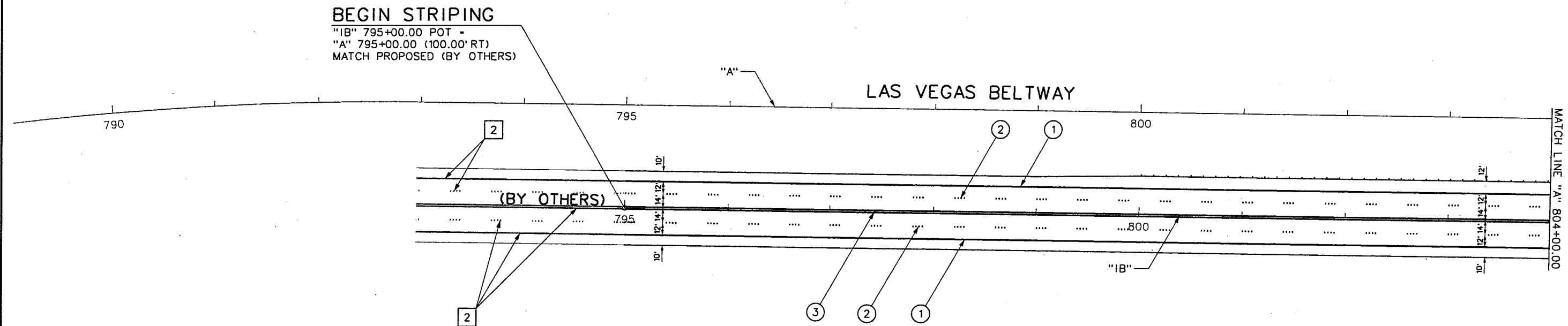
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VERT: NONE
FIELD BOOK
DRAWING NO.
W18
OF
L-1695



90%
PRELIMINARY
4-12-02

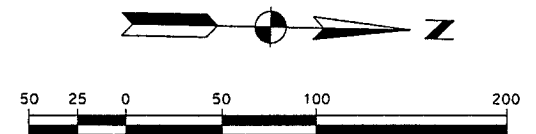
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DESIGNED BY: <u>NLG</u>	CHECKED BY: <u>CAB</u>	
APPROVED BY: <u>TDL</u>		
 THE LOUIS BERGER GROUP, INC. LAS VEGAS, NEVADA		SCALE
		HORIZ: AS SHOWN
		VERT: NONE
		FIELD BOOK

REFERENCE FILE: 851-border.mst - 851-STR-NOTES.DGN - 851-INTERNALIGN.mst - 851-stamp.mst - 851-INT-Geo.MS1 - 851-Int-Stripe.mst
FILE NAME: V:\851 Ann Rd to El Capitan\Interm\Striping\851-ST01.dgn - 4/4/2002 - 13:23:28 ECG



PAVEMENT MARKING NOTES:

- ① 8" SOLID WHITE LINE (EPOXY PAINT)
- ② TYPE 4 LANE LINE (RPM)
- ③ TYPE 1 CENTERLINE (RPM)
- ② PAVEMENT MARKINGS TO REMAIN



REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
STRIPING PLAN
"A" 795+00.00 TO "A" 804+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

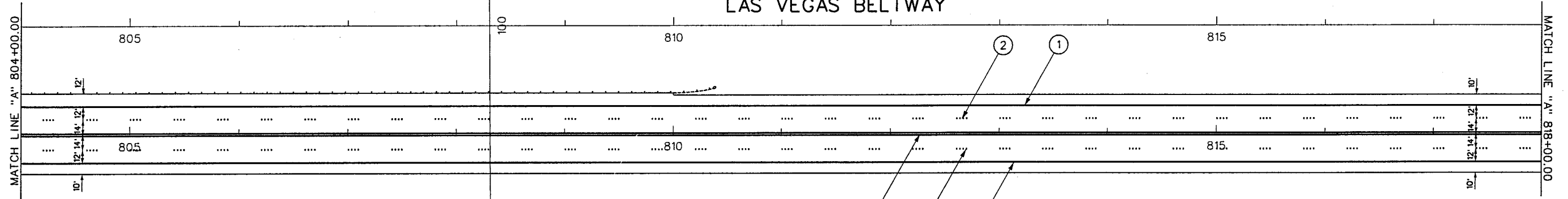
90%
PRELIMINARY
4-12-02

PROJECT NO: 851	DRAWN BY: ECG	SCALE	DRAWING NO.
DESIGNED BY: NLG	CHECKED BY: CAB	HORIZ: AS SHOWN	ST-2
APPROVED BY: TDL		VERT: NONE	OF
		FIELD BOOK	
			L-1695



THE LOUIS BERGER
GROUP, INC.
LAS VEGAS, NEVADA

REFERENCE FILE: 851-border.mst - 851-INTERNAL ION.mst - 851-stamp.mst - 851-INT-Geo.MST - 851-INT-Stripe.mst
FILE NAME: V:\851 Ann Rd to El Capitan\Interm\Striping\851-ST02.dgn - 4/11/2002 - 11:31:33 ECG



PAVEMENT MARKING NOTES:

- ① 8" SOLID WHITE LINE (EPOXY PAINT)
- ② TYPE 4 LANE LINE (RPM)
- ③ TYPE 1 CENTERLINE (RPM)



REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
STRIPING PLAN
"A" 804+00.00 TO "A" 818+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

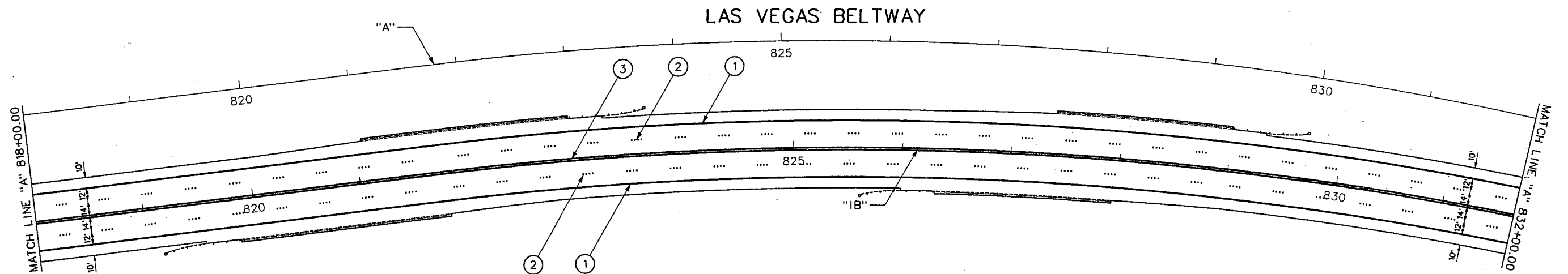
90%
PRELIMINARY
4-12-02

PROJECT NO: 851	DRAWN BY: ECG	SCALE	DRAWING NO.
DESIGNED BY: NLG	CHECKED BY: CAB	HORIZ: AS SHOWN	ST-3
APPROVED BY: TDL		VERT: NONE	OF
		FIELD BOOK	
			L-1695



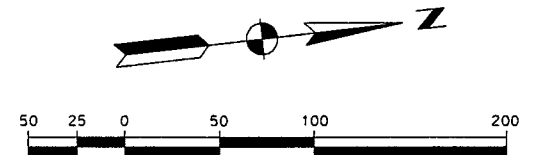
THE LOUIS BERGER
GROUP, INC.
LAS VEGAS, NEVADA

REFERENCE FILE: 851-stamp.mst - 851-border.mst - 851-INTERNAL.IGN.mst - 851-INT-Geo.MST - 851-Int-Stripe.mst
FILE NAME: V:\851 Ann Rd to El Capitan\Intern\Striping\851-STO3.dgn - 4/4/2002 - 13:29:39 ECG



PAVEMENT MARKING NOTES:

- ① 8" SOLID WHITE LINE (EPOXY PAINT)
- ② TYPE 4 LANE LINE (RPM)
- ③ TYPE 1 CENTERLINE (RPM)



REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
STRIPING PLAN
"A" 818+00.00 TO "A" 832+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

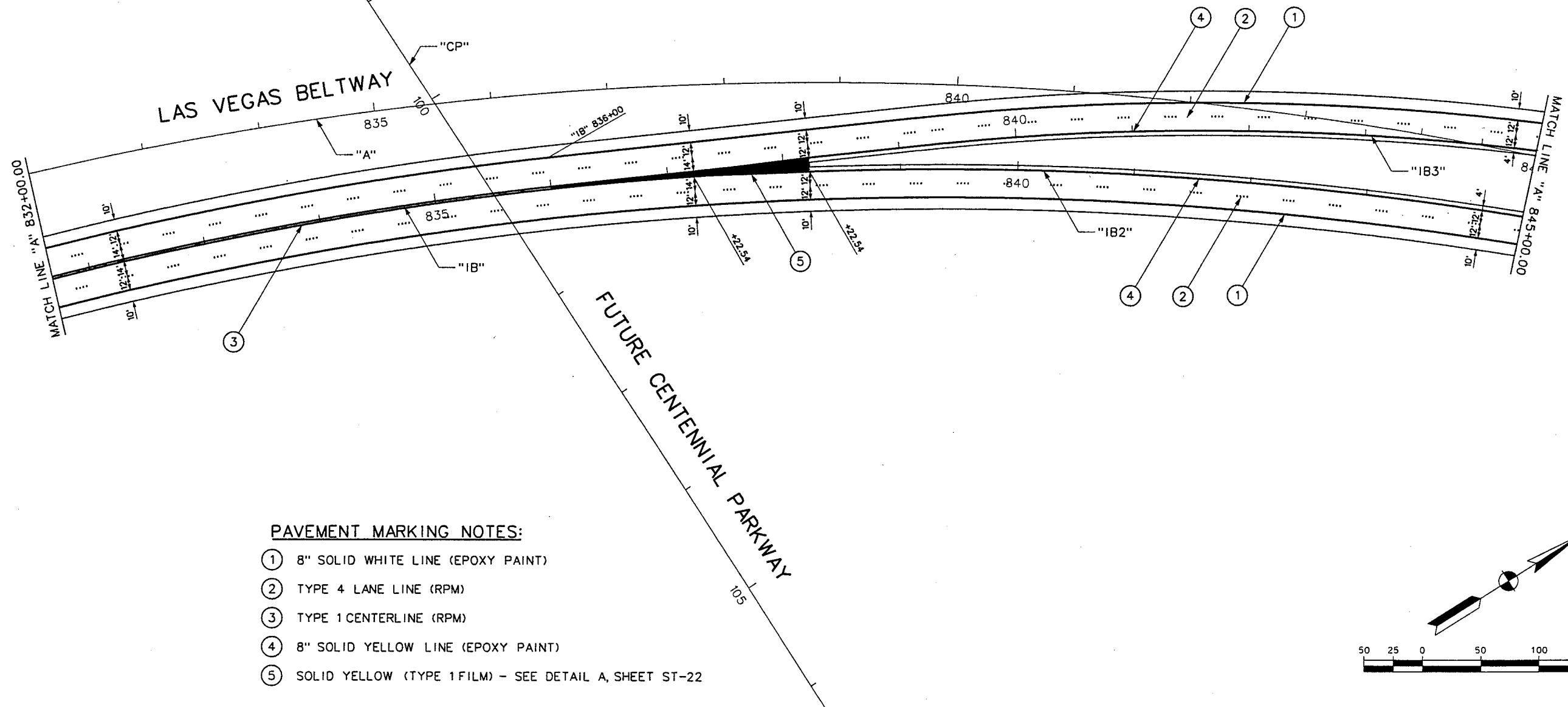
90%
PRELIMINARY
4-12-02

PROJECT NO: 851	DRAWN BY: ECG	SCALE	DRAWING NO.
DESIGNED BY: NLG	CHECKED BY: CAB	HORIZ: AS SHOWN	ST-4
APPROVED BY: TDL		VERT: NONE	OF
		FIELD BOOK	
			L-1695



THE LOUIS BERGER
GROUP, INC.
LAS VEGAS, NEVADA

REFERENCE FILE: 851-border.mst - 851-stamp.mst - 851-interm.mst - 851-int-geo.mst - 851-int-stripe.mst
FILE NAME: V:\851 Ann Rd to El Capitan\Interm\Striping\851-STD4.dgn - 4/4/2002 - 14:04:30 ECG



PAVEMENT MARKING NOTES:

- ① 8" SOLID WHITE LINE (EPOXY PAINT)
- ② TYPE 4 LANE LINE (RPM)
- ③ TYPE 1 CENTERLINE (RPM)
- ④ 8" SOLID YELLOW LINE (EPOXY PAINT)
- ⑤ SOLID YELLOW (TYPE 1 FILM) - SEE DETAIL A, SHEET ST-22

REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
STRIPING PLAN
"A" 832+00.00 TO "A" 845+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

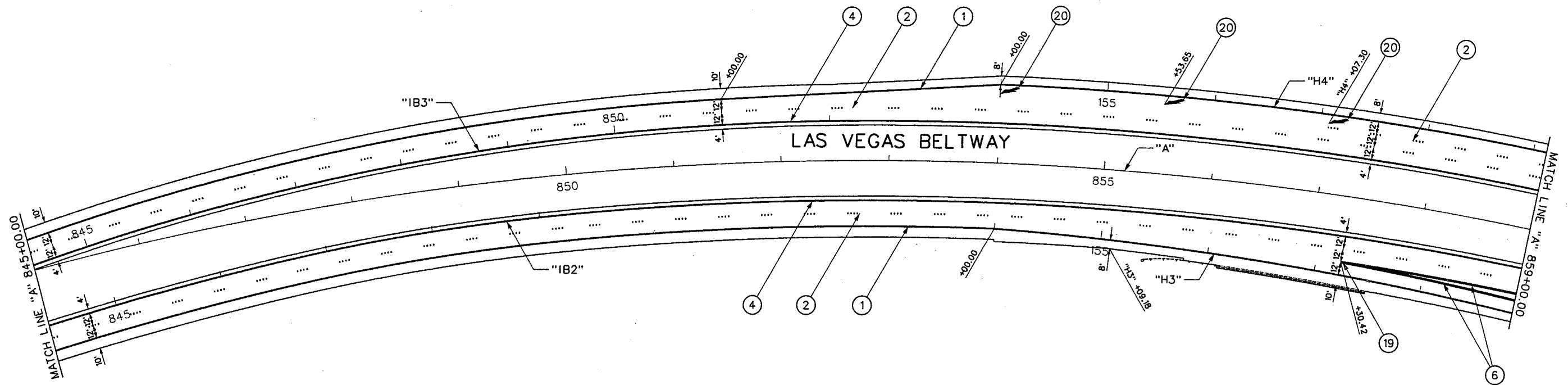
PROJECT NO: 851	DRAWN BY: ECG
DESIGNED BY: NLG	CHECKED BY: CAS
APPROVED BY: TDL	
 THE LOUIS BERGER GROUP, INC. LAS VEGAS, NEVADA	

SCALE
HORIZ: AS SHOWN
VERT: NONE
FIELD BOOK

DRAWING NO.
ST-5
OF
L-1695

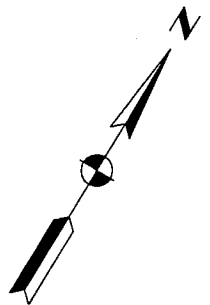
WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY

REFERENCE FILE: 851-border.mst - 851-int-Stripe.mst - 851-STR-NOTES.DGN - 851-stamp.mst - 851-intermalign.mst - 851-int-geom.mst
FILE NAME: V:\851 Ann Rd to El Capitan\Interm\Striping\851-ST05.dgn - 4/4/2002 - 15:50:55 ECG



PAVEMENT MARKING NOTES:

- ① 8" SOLID WHITE LINE (EPOXY PAINT)
- ② TYPE 4 LANE LINE (RPM)
- ④ 8" SOLID YELLOW LINE (EPOXY PAINT)
- ⑥ 12" SOLID WHITE LINE (EPOXY PAINT)
- ⑱ EXIT RAMP GORE STRIPING - SEE DETAIL, SHEET ST-21
- ⑳ MERGE ARROW LEGEND (TYPE 1 FILM) - SEE DETAIL, SHEET ST-21



REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
STRIPING PLAN
"A" 845+00.00 TO "A" 859+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

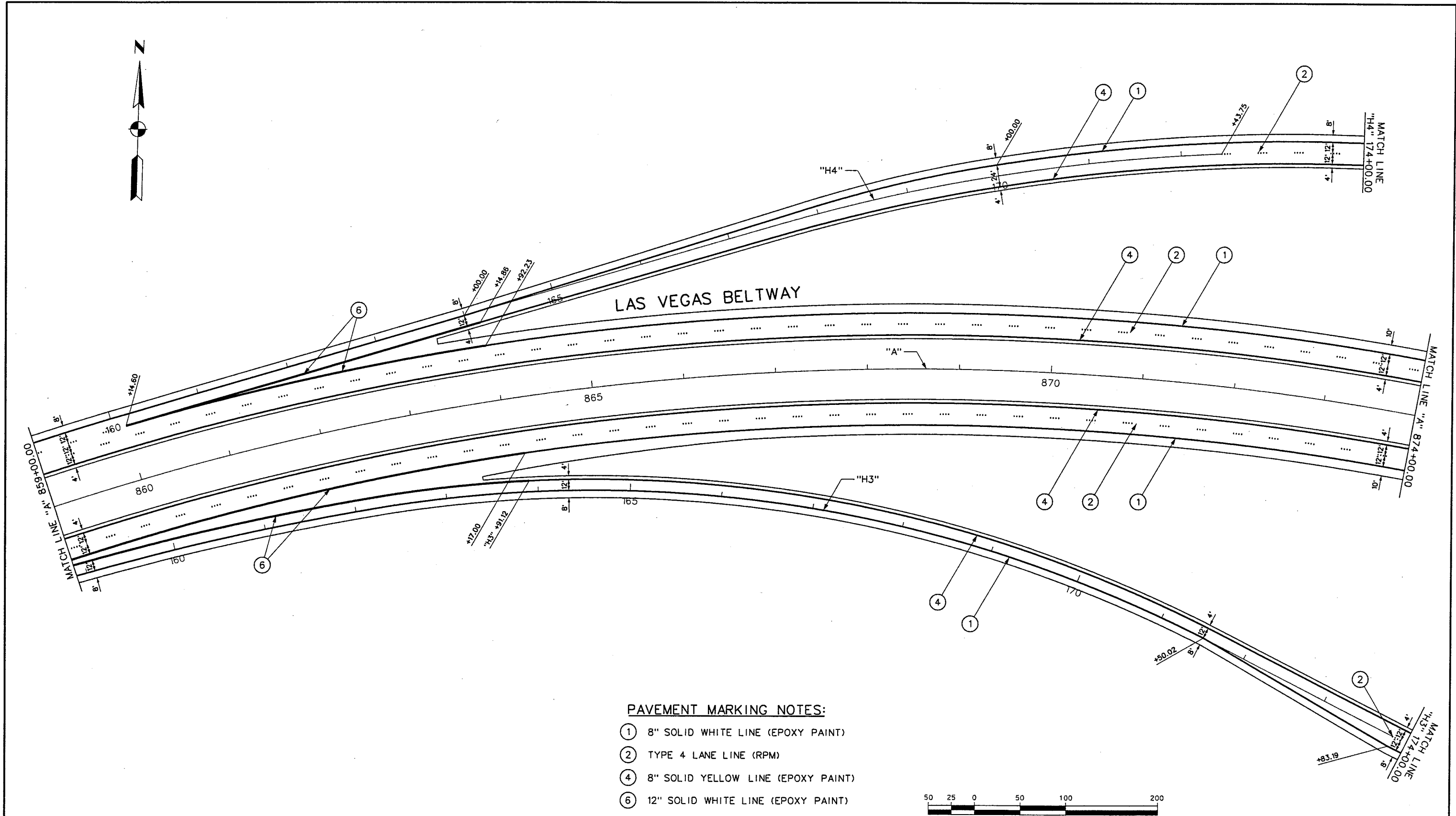
PROJECT NO: 851	DRAWN BY: ECG
DESIGNED BY: NLG	CHECKED BY: CAB
APPROVED BY: TDL	
 THE LOUIS BERGER GROUP, INC. LAS VEGAS, NEVADA	

SCALE
HORIZ: AS SHOWN
VERT: NONE
FIELD BOOK

DRAWING NO.
ST-6
OF
L-1695

WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY

REFERENCE FILE: 851-int-Stripe.mst - 851-intermalign.mst - 851-STR-NOTES.DGN - 851-border.mst - 851-INT-GEO.MB, - 851-stamp.mst
FILE NAME: V:\851 Ann Rd to El Capitan\Interm\Striping\851-ST06.dgn - 4/4/2002 - 15:55:49 ECG



REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
STRIPING PLAN
"A" 859+00.00 TO "A" 874+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

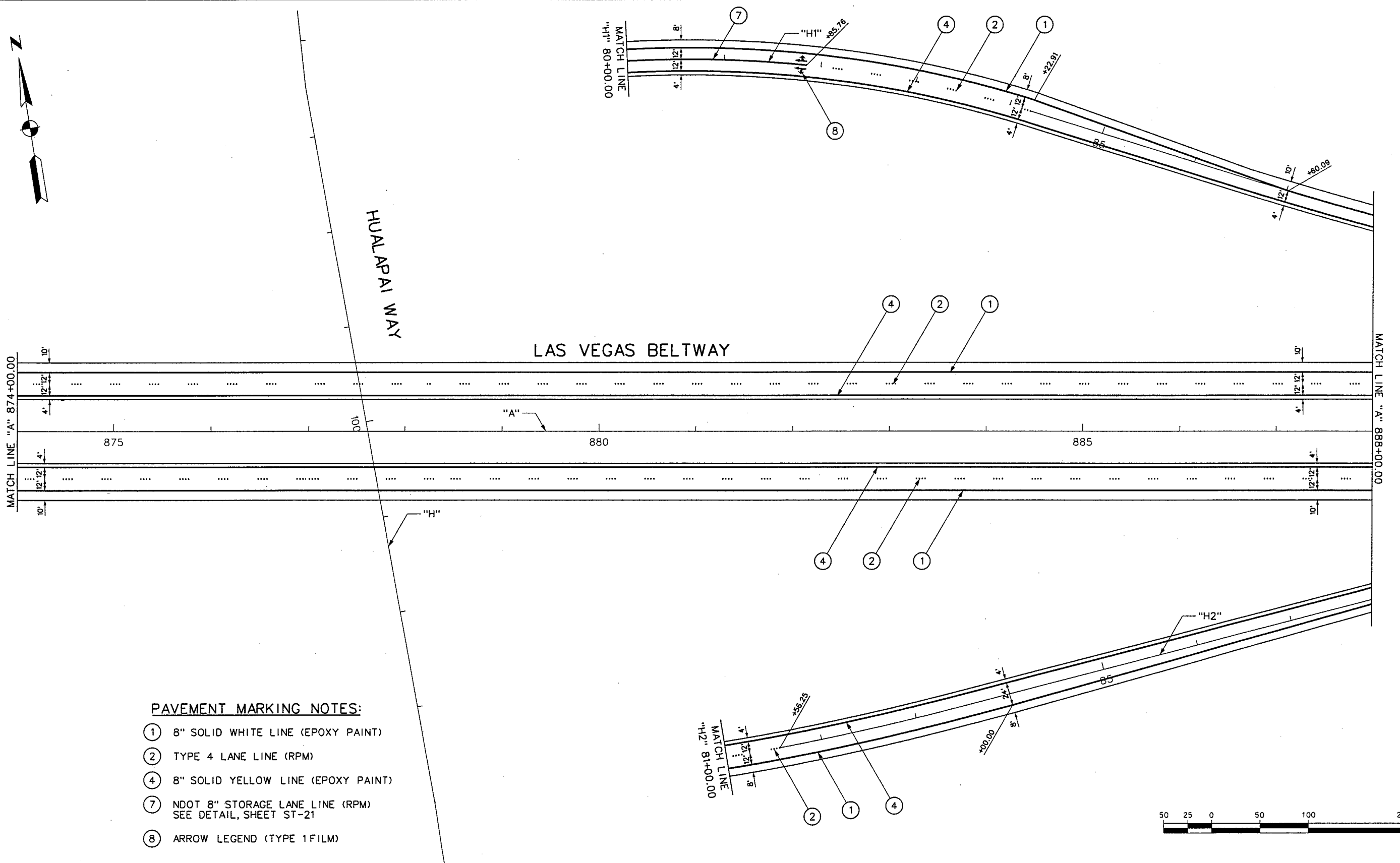
PROJECT NO: 851	DRAWN BY: ECG
DESIGNED BY: NLG	CHECKED BY: CAB
APPROVED BY: TDL	
THE LOUIS BERGER GROUP, INC. LAS VEGAS, NEVADA	

SCALE
HORIZ: AS SHOWN
VERT: NONE
FIELD BOOK

DRAWING NO.
ST-7
OF
L-1695

WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY

REFERENCE FILE: 851-INT-GEOM.MST - 851-INT-INTERNAL.MST - 851-STR-NOTES.DGN - 851-BORDER.MST - 851-INT-STRIPES.MST - 851-STAMP.MST
FILE NAME: V:\851 Ann Rd to El Capitan\Interm\Striping\851-ST07.dgn - 4/11/2002 - 11:34:16 ECG



- PAVEMENT MARKING NOTES:
- ① 8" SOLID WHITE LINE (EPOXY PAINT)
 - ② TYPE 4 LANE LINE (RPM)
 - ④ 8" SOLID YELLOW LINE (EPOXY PAINT)
 - ⑦ NDOT 8" STORAGE LANE LINE (RPM)
SEE DETAIL, SHEET ST-21
 - ⑧ ARROW LEGEND (TYPE 1 FILM)



REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
STRIPING PLAN
"A" 874+00.00 TO "A" 888+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

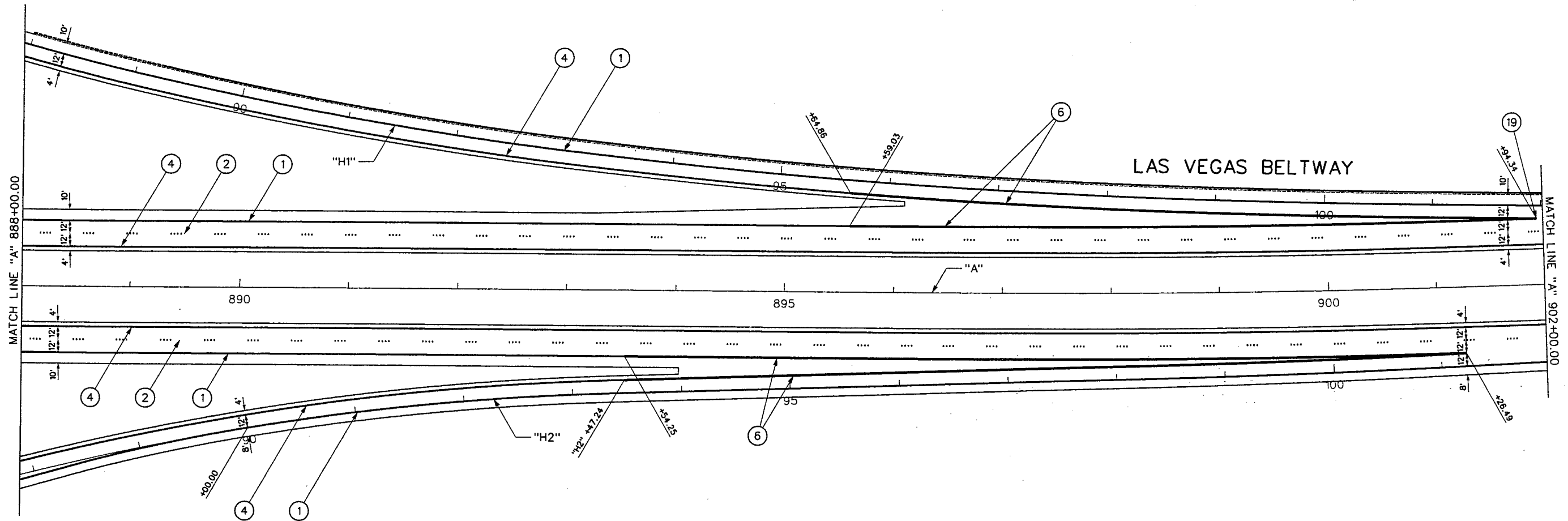
PROJECT NO: 851 DRAWN BY: ECG
DESIGNED BY: NLG CHECKED BY: CAB
APPROVED BY: TOL
 THE LOUIS BERGER GROUP, INC.
LAS VEGAS, NEVADA

SCALE
HORIZ: AS SHOWN
VERT: NONE
FIELD BOOK

DRAWING NO.
ST-8
OF
L-1695

WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY

REFERENCE FILE: 851-INT-CEOMST - 851-internalign.mst - 851-STR-NOTES.DGN - 851-border.mst - 851-int-Stripe.mst - 851-stamp.mst
FILE NAME: V:\851 Ann Rd to El Capitan\Interm\Striping\851-ST09.dgn - 4/4/2002 - 16:30:25 ECG



PAVEMENT MARKING NOTES:

- ① 8" SOLID WHITE LINE (EPOXY PAINT)
- ② TYPE 4 LANE LINE (RPM)
- ④ 8" SOLID YELLOW LINE (EPOXY PAINT)
- ⑥ 12" SOLID WHITE LINE (EPOXY PAINT)
- ⑱ EXIT RAMP GORE STRIPING - SEE DETAIL, SHEET ST-21

REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
STRIPING PLAN
"A" 888+00.00 TO "A" 902+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

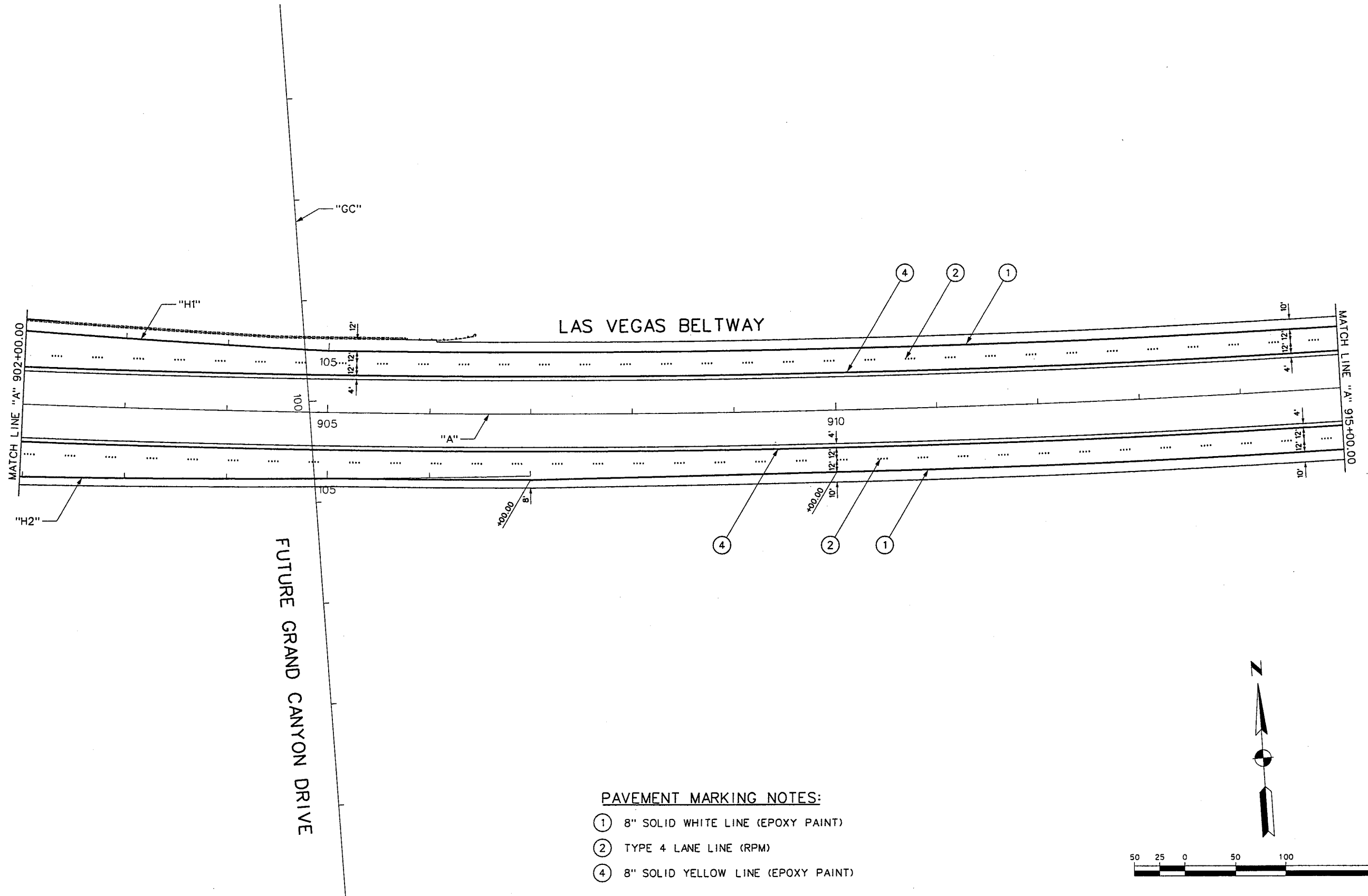
PROJECT NO: 851 DRAWN BY: ECG
DESIGNED BY: NLG CHECKED BY: CAB
APPROVED BY: TDL
 THE LOUIS BERGER GROUP, INC.
LAS VEGAS, NEVADA

SCALE
HORIZ: AS SHOWN
VERT: NONE
FIELD BOOK

DRAWING NO.
ST-9
OF
L-1695

WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY

REFERENCE FILE: 851-int-Stripe.mst - 851-STR-NOTES.DGN - 851-border.mst - 851-stamp.mst - 851-internalign.mst 851-INT-GEO.MST
FILE NAME: V:\851 Ann Rd to El Capitan\Interm\Striping\851-ST10.dgn - 4/11/2002 - 11:36:23 ECG



PAVEMENT MARKING NOTES:

- ① 8" SOLID WHITE LINE (EPOXY PAINT)
- ② TYPE 4 LANE LINE (RPM)
- ④ 8" SOLID YELLOW LINE (EPOXY PAINT)

REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
STRIPING PLAN
"A" 902+00.00 TO "A" 915+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

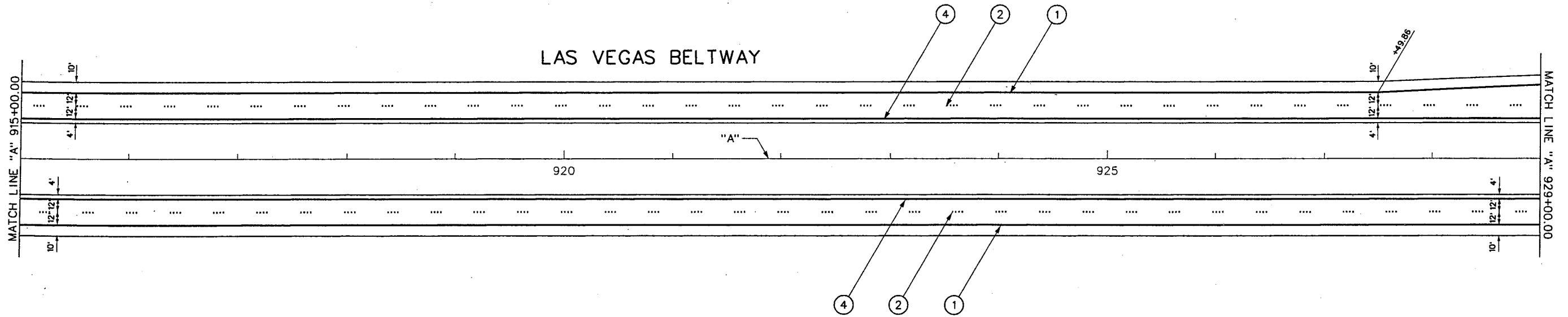
PROJECT NO: 851	DRAWN BY: ECG	SCALE	DRAWING NO.
DESIGNED BY: NLG	CHECKED BY: CAB	HORIZ: AS SHOWN	ST-10
APPROVED BY: TDL		VERT: NONE	OF
		FIELD BOOK	
			L-1695



THE LOUIS BERGER
GROUP, INC.
LAS VEGAS, NEVADA

WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY

REFERENCE FILES: 851-int-Stripe.mst - 851-STR-NOTES.DGN - 851-border.mst - 851-stamp.mst - 851-interm.mst - 851-int-Geo.MST
FILE NAME: V:\851 Ann Rd to El Capitan\Interm\Striping\851-ST11.dgn - 4/4/2002 - 16:57:12 ECG



PAVEMENT MARKING NOTES:

- ① 8" SOLID WHITE LINE (EPOXY PAINT)
- ② 8" BROKEN WHITE LINE (RPM)
- ④ 8" SOLID YELLOW LINE (EPOXY PAINT)



REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
STRIPING PLAN
"A" 915+00.00 TO "A" 929+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

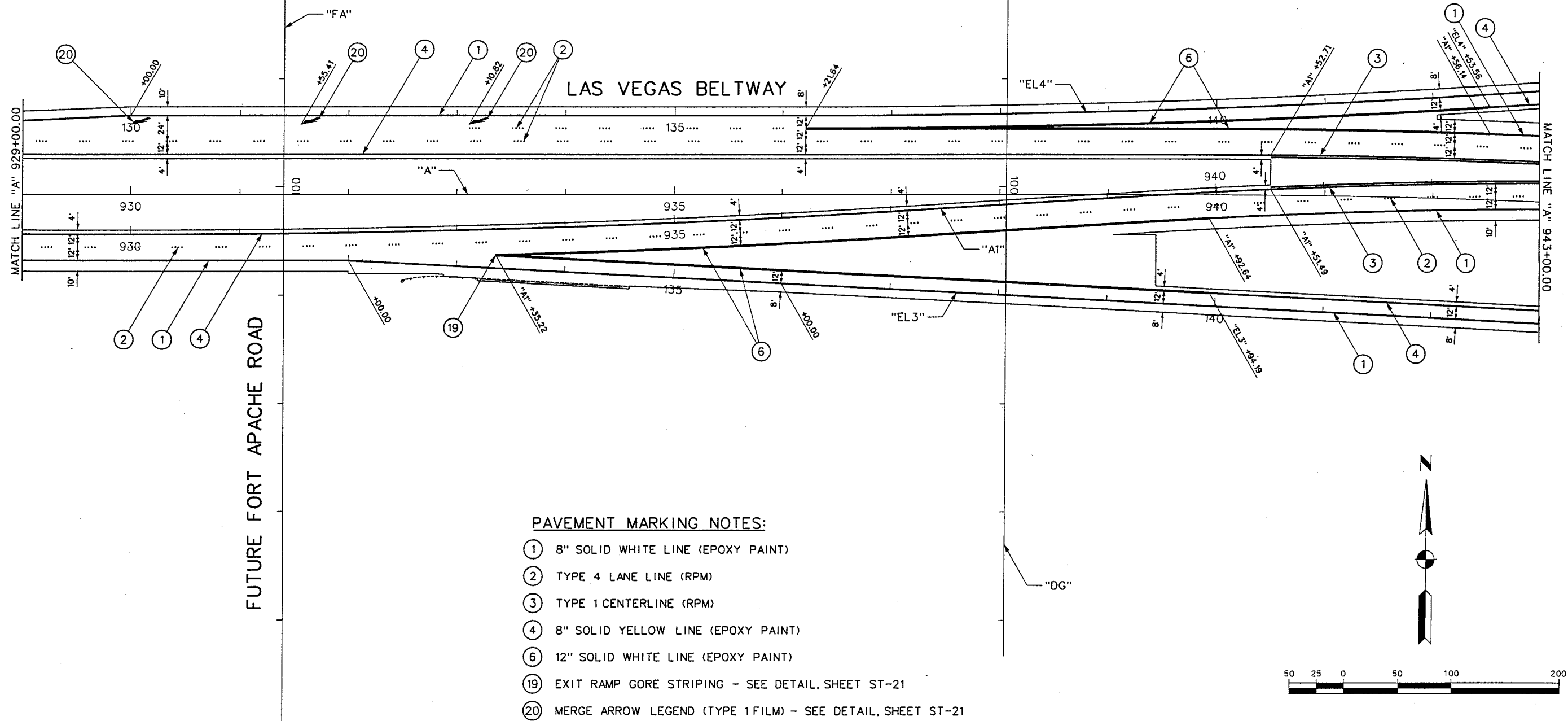
90%
PRELIMINARY
4-12-02

PROJECT NO: 851	DRAWN BY: ECG
DESIGNED BY: NLG	CHECKED BY: CAB
APPROVED BY: TDL	
 THE LOUIS BERGER GROUP, INC. LAS VEGAS, NEVADA	

SCALE
HORIZ: AS SHOWN
VERT: NONE
FIELD BOOK

DRAWING NO.
ST-11
OF
L-1695

REFERENCE FILE: 851-Int-Stripe.mst - 851-STR-NOTES.DGN - 851-border.mst - 851-stamp.mst - 851-internal.ign.mst
FILE NAME: V:\851 Ann Rd to El Capitan\Interm\Striping\851-ST12.dgn - 4/11/2002 - 11:42:08 ECG



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
STRIPING PLAN
"A" 929+00.00 TO "A" 943+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

PROJECT NO: 851	DRAWN BY: ECG	SCALE	DRAWING NO. ST-12
DESIGNED BY: NLG	CHECKED BY: CAB	HORIZ: AS SHOWN	OF
APPROVED BY: TDL		VERT: NONE	
		FIELD BOOK	
			L-1695



THE LOUIS BERGER GROUP, INC.
LAS VEGAS, NEVADA

REFERENCE F:\851-INT-Geo.MST - 851-INT-Geo.MST - 851-STR-NOTES.DGN - 851-border.mst - 851-Int-Striping.mst - 851-stomp.mst
FILE NAME: V:\851 Ann Rd to El Capitan\Interm\Striping\851-ST13.dgn - 4/4/2002 - 8:53:53 ECG

REV. NO.	DATE	DESCRIPTION	APPROVED



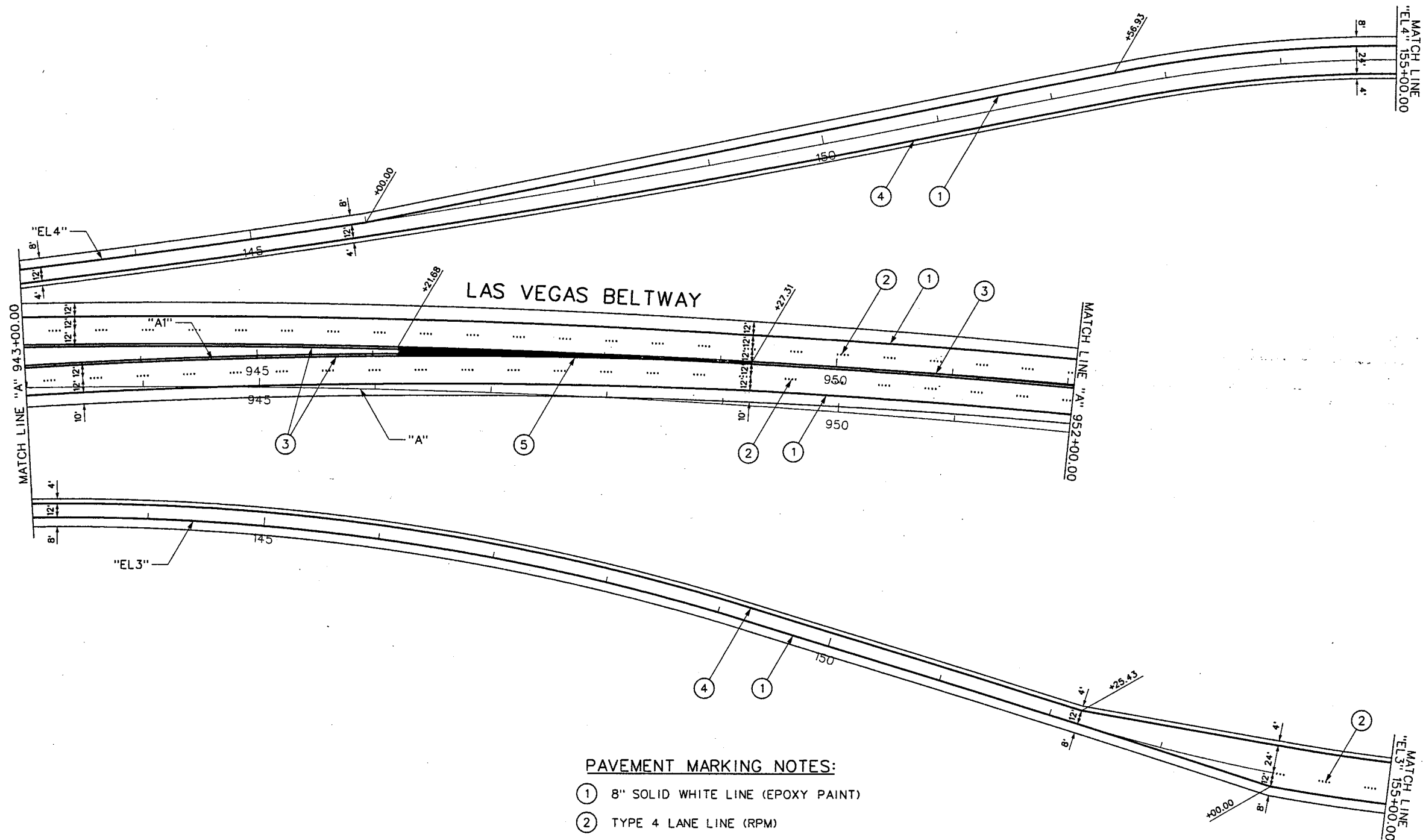
WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
STRIPING PLAN
"A" 943+00.00 TO "A" 952+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

PROJECT NO: 851	DRAWN BY: ECG	SCALE	DRAWING NO.
DESIGNED BY: NLG	CHECKED BY: CAB	HORIZ: AS SHOWN	ST-13
APPROVED BY: TDL		VERT: NONE	OF
		FIELD BOOK	
			L-1695



THE LOUIS BERGER
GROUP, INC.
LAS VEGAS, NEVADA



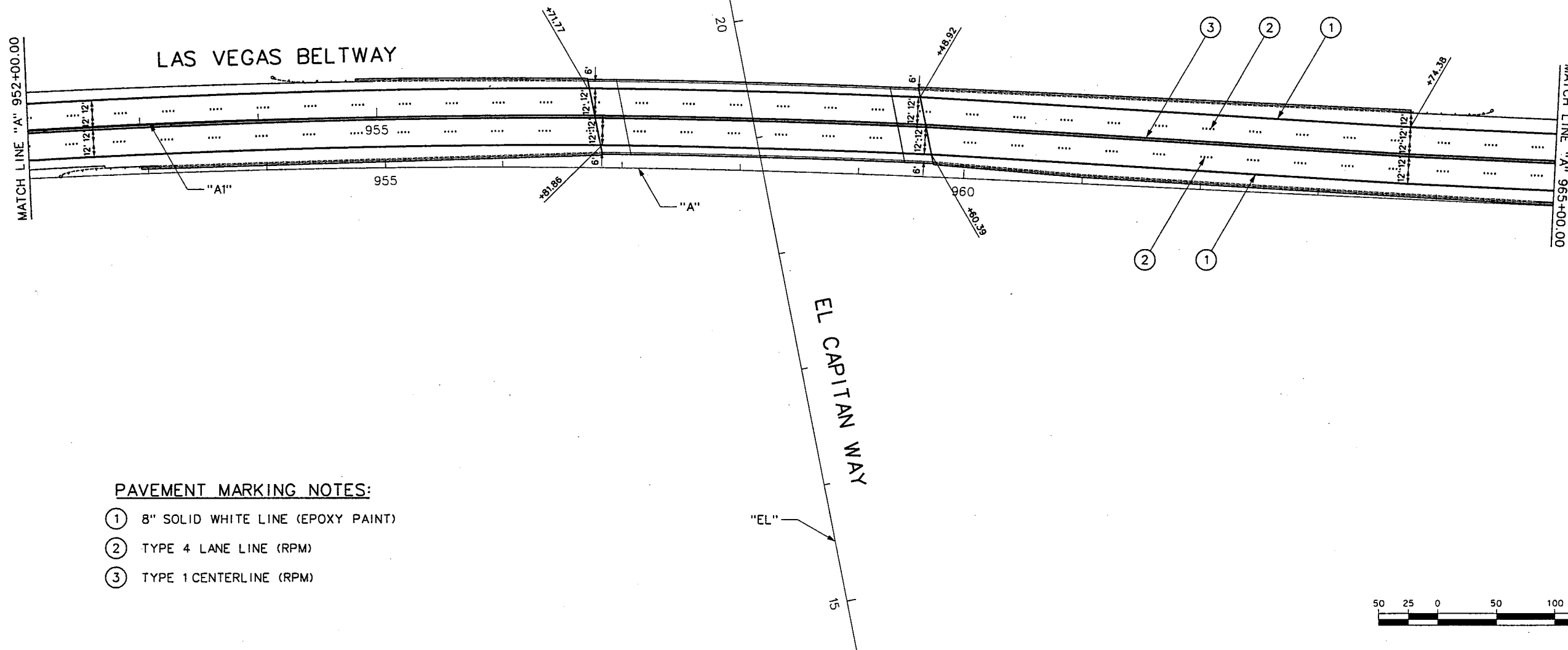
PAVEMENT MARKING NOTES:

- ① 8" SOLID WHITE LINE (EPOXY PAINT)
- ② TYPE 4 LANE LINE (RPM)
- ③ TYPE 1 CENTERLINE (RPM)
- ④ 8" SOLID YELLOW LINE (EPOXY PAINT)
- ⑤ SOLID YELLOW (TYPE 1 FILM) - SEE DETAIL A, SHEET ST-22



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY

REFERENCE FILE: 851-INT-GEO.MST - 851-INT-Stripe.mst - 851-STR-NOTES.DGN - 851-border.mst - 851-stamp.mst - 851-interm.lgn.mst
FILE NAME: V:\851 Ann Rd to El Capitan\Interm\Striping\851-ST14.dgn - 4/11/2002 - 11:44:32 ECG



PAVEMENT MARKING NOTES:

- ① 8" SOLID WHITE LINE (EPOXY PAINT)
- ② TYPE 4 LANE LINE (RPM)
- ③ TYPE 1 CENTERLINE (RPM)



REV. NO.	DATE	DESCRIPTION	APPROVED



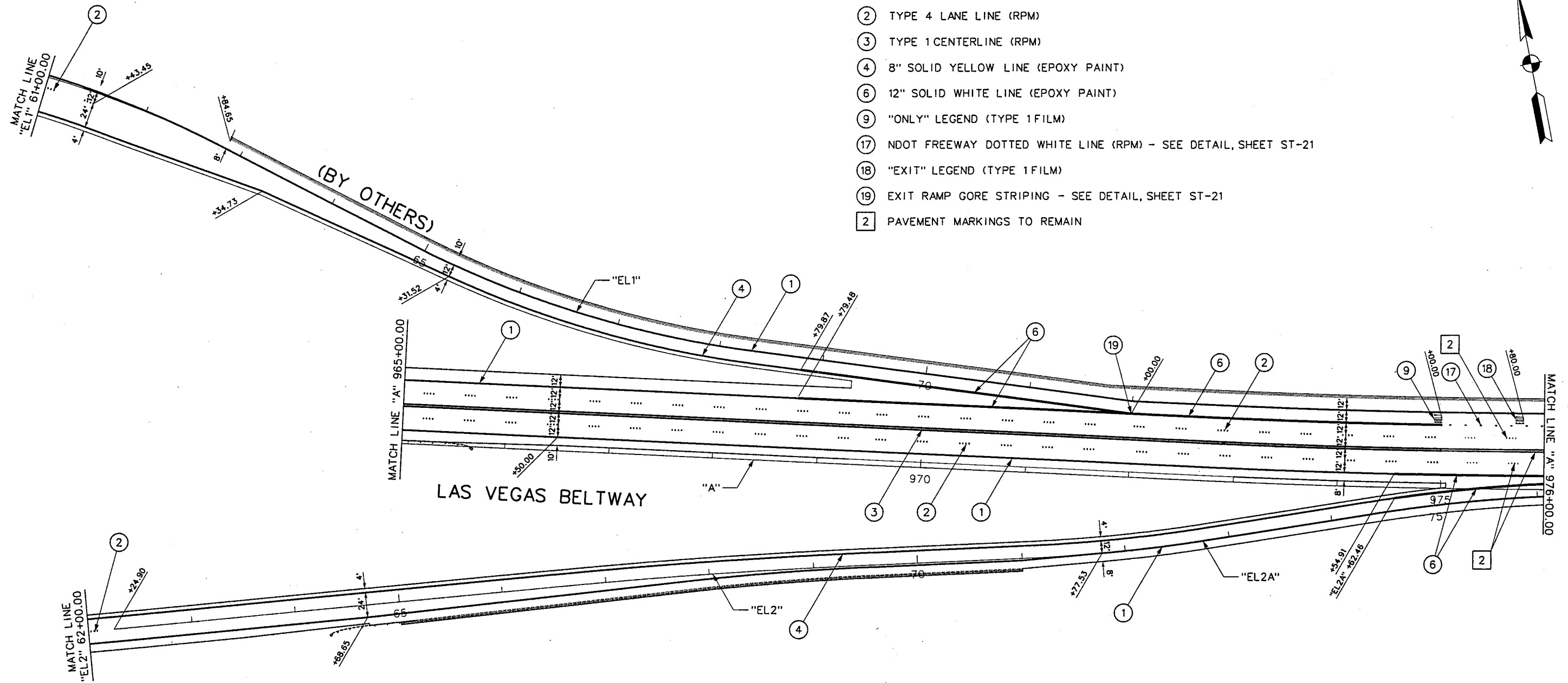
WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
STRIPING PLAN
"A" 952+00.00 TO "A" 965+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

PROJECT NO: 851	DRAWN BY: ECG	SCALE	DRAWING NO.
DESIGNED BY: NLG	CHECKED BY: CAB	HORIZ: AS SHOWN	ST-14
APPROVED BY: TDL		VERT: NONE	OF
 THE LOUIS BERGER GROUP, INC. LAS VEGAS, NEVADA		FIELD BOOK	
			L-1695

WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY

REFERENCE FILE: 851-INT-GEO.MST - 851-INT-Stripe.mst - 851-STR-NOTES.DGN - 851-border.mst - 851-stamp.mst - 851-intermalign.mst
FILE NAME: V:\851 Ann Rd to El Capitan\Interm\Striping\851-ST16.dgn - 4/11/2002 - 11:46:44 ECG

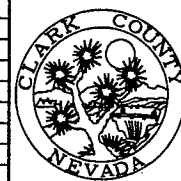


PAVEMENT MARKING NOTES:

- ① 8" SOLID WHITE LINE (EPOXY PAINT)
- ② TYPE 4 LANE LINE (RPM)
- ③ TYPE 1 CENTERLINE (RPM)
- ④ 8" SOLID YELLOW LINE (EPOXY PAINT)
- ⑥ 12" SOLID WHITE LINE (EPOXY PAINT)
- ⑨ "ONLY" LEGEND (TYPE 1 FILM)
- ⑰ NDOT FREEWAY DOTTED WHITE LINE (RPM) - SEE DETAIL, SHEET ST-21
- ⑱ "EXIT" LEGEND (TYPE 1 FILM)
- ⑲ EXIT RAMP GORE STRIPING - SEE DETAIL, SHEET ST-21
- ② PAVEMENT MARKINGS TO REMAIN



REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
STRIPING PLAN
"A" 965+00.00 TO "A" 976+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

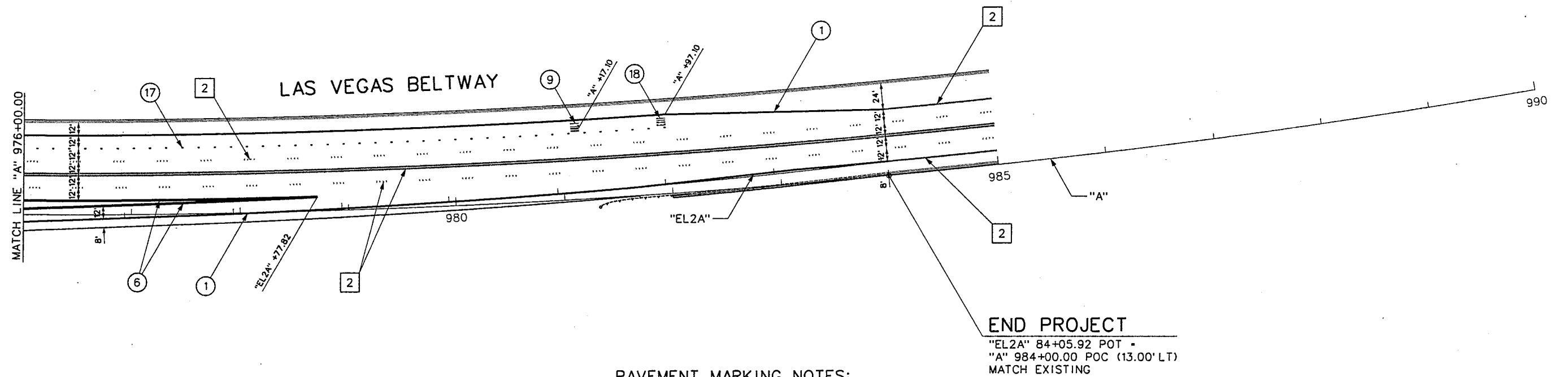
90%
PRELIMINARY
4-12-02

PROJECT NO: 851	DRAWN BY: ECG	SCALE	DRAWING NO.
DESIGNED BY: NLG	CHECKED BY: CAB	HORIZ: AS SHOWN	ST-15
APPROVED BY: TDL		VERT: NONE	OF
		FIELD BOOK	
			L-1695



THE LOUIS BERGER
GROUP, INC.
LAS VEGAS, NEVADA

REFERENCE FILE: 851-INT-GEO.MST - 851-INT-Stripe.mst - 851-STR-NOTES.DGN - 851-border.mst - 851-stamp.mst - 851-intermalign.mst
FILE NAME: V:\851 Ann Rd to El Capitan\Interm\Striping\851-ST17.dgn - 4/11/2002 - 11:48:50 ECG



PAVEMENT MARKING NOTES:

- ① 8" SOLID WHITE LINE (EPOXY PAINT)
- ⑥ 12" SOLID WHITE LINE (EPOXY PAINT)
- ⑨ "ONLY" LEGEND (TYPE 1 FILM)
- ⑰ NDOT FREEWAY DOTTED WHITE LINE (RPM) - SEE DETAIL, SHEET ST-21
- ⑱ "EXIT" LEGEND (TYPE 1 FILM)
- ② PAVEMENT MARKINGS TO REMAIN



REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
STRIPING PLAN
"A" 976+00.00 TO "A" 990+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

PROJECT NO: 851 DRAWN BY: ECG
DESIGNED BY: NLG CHECKED BY: CAB
APPROVED BY: TDL

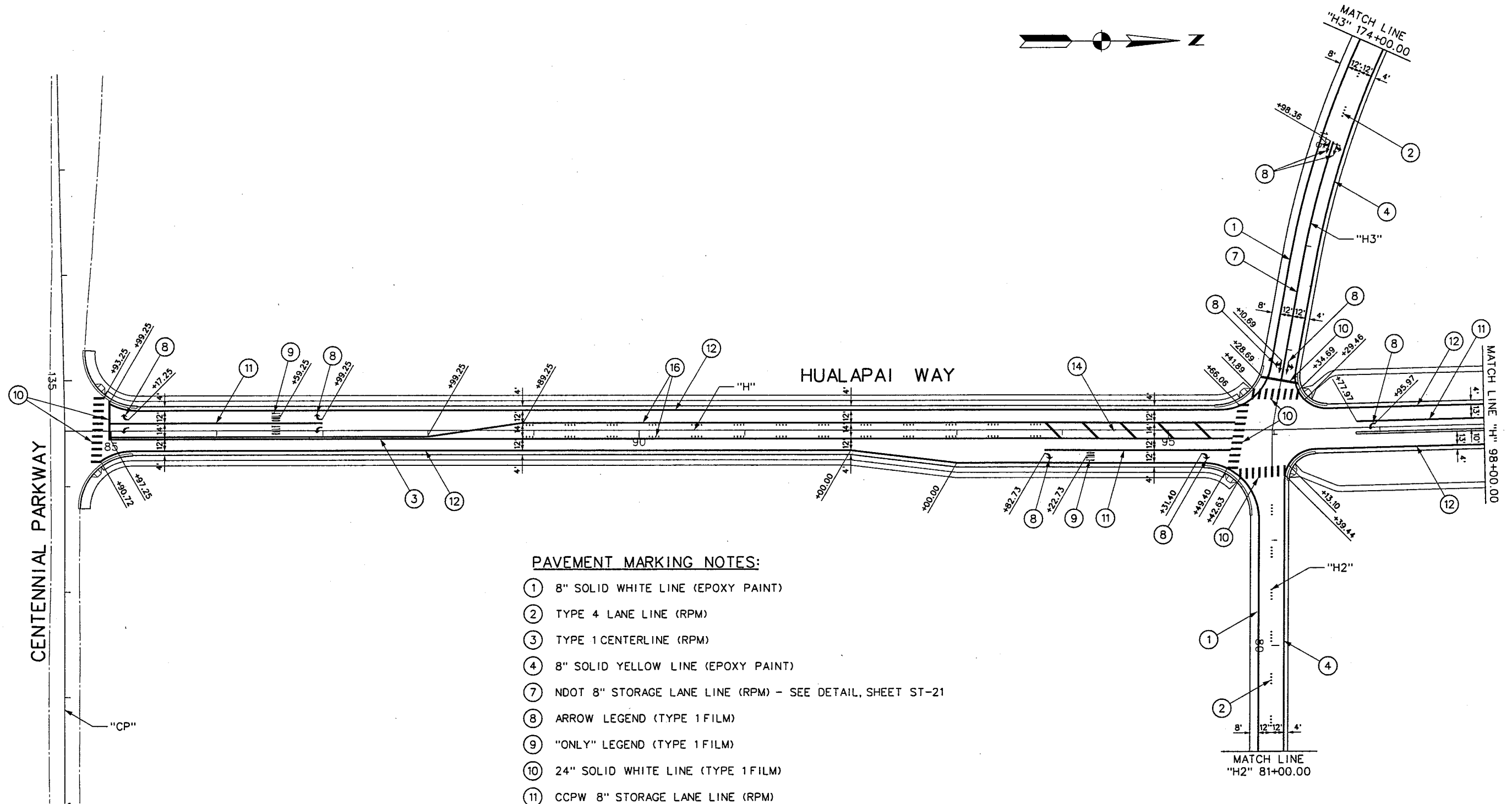


THE LOUIS BERGER
GROUP, INC.
LAS VEGAS, NEVADA

SCALE
HORIZ: AS SHOWN
VERT: NONE
FIELD BOOK

DRAWING NO.
ST-16
OF
L-1695

REFERENCE FILE: 851-INT-CEOMST - 851-internal\ign.mst - 851-topo.mst - 851-STR-NOTES.DGN - 851-border.mst - 851-int-Stripe.mst - 851-stamp.mst
FILE NAME: V:\851 Ann Rd to El Capitan\Interm\Striping\851-STB.dgn - 4/11/2002 - 11:51:12 ECG



PAVEMENT MARKING NOTES:

- ① 8" SOLID WHITE LINE (EPOXY PAINT)
- ② TYPE 4 LANE LINE (RPM)
- ③ TYPE 1 CENTERLINE (RPM)
- ④ 8" SOLID YELLOW LINE (EPOXY PAINT)
- ⑦ NDOT 8" STORAGE LANE LINE (RPM) - SEE DETAIL, SHEET ST-21
- ⑧ ARROW LEGEND (TYPE 1 FILM)
- ⑨ "ONLY" LEGEND (TYPE 1 FILM)
- ⑩ 24" SOLID WHITE LINE (TYPE 1 FILM)
- ⑪ CCPW 8" STORAGE LANE LINE (RPM)
- ⑫ 4" SOLID WHITE LINE (EPOXY PAINT)
- ⑭ TRANSITION SECTION - SEE DETAIL B, SHEET ST-22
- ⑯ TYPE 2 CENTERLINE (RPM)



REV. NO.	DATE	DESCRIPTION	APPROVED



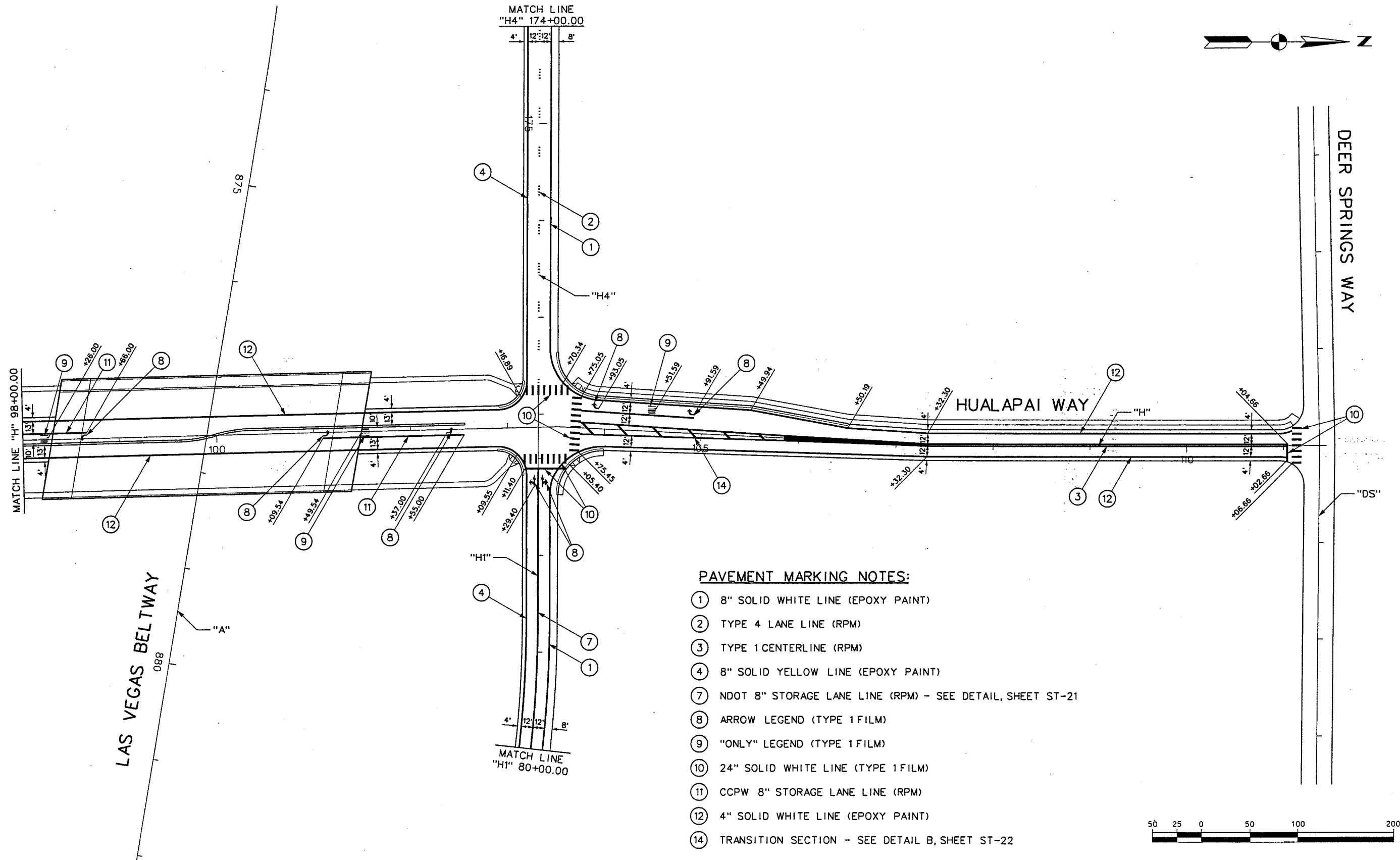
WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
STRIPING PLAN
"H" 84+55.58 TO "H" 98+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

PROJECT NO: 851 DRAWN BY: ECG
DESIGNED BY: NLG CHECKED BY: CAB
APPROVED BY: TDL
 THE LOUIS BERGER GROUP, INC.
LAS VEGAS, NEVADA

SCALE	DRAWING NO.
HORIZ: AS SHOWN	ST-17
VERT: NONE	OF
FIELD BOOK	L-1695

REFERENCE FILES: 851-internal.mst - 851-INT-GEOMST - 851-STR-NOTES.DGN - 851-border.mst - 851-int-Stripe.mst - 851-stamp.mst
FILE NAME: V:\851 Ann Rd to El Capitan\Interm\Striping\851-ST19.dgn - 4/5/2002 - 12:00:42 ECG



REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
STRIPING PLAN
"H" 98+00.00 TO "H" 111+37.79
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

PROJECT NO: 851 DRAWN BY: ECG
DESIGNED BY: NLG CHECKED BY: CAB
APPROVED BY: TDL

THE LOUIS BERGER GROUP, INC.
LAS VEGAS, NEVADA

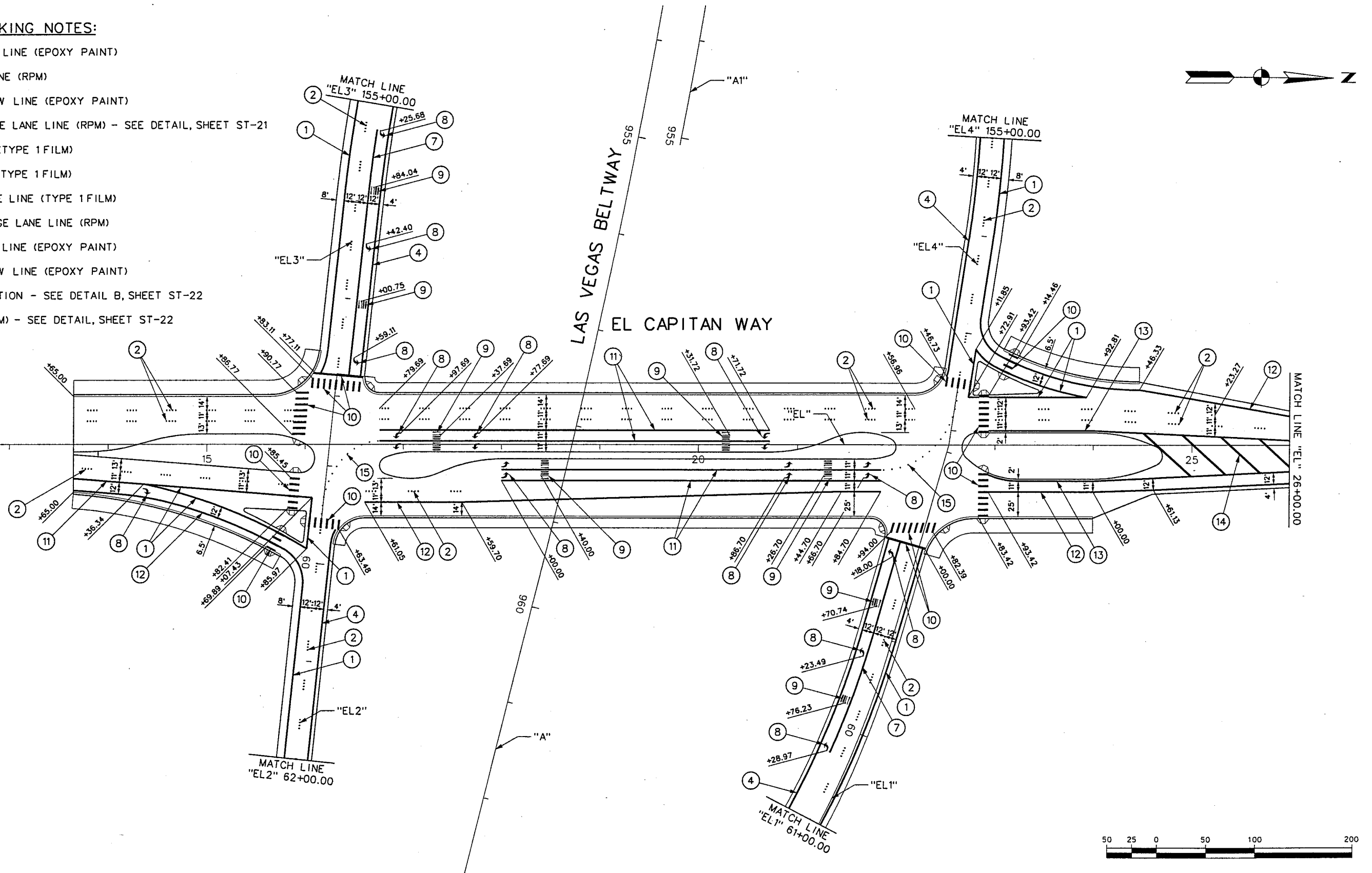
SCALE
HORIZ: AS SHOWN
VERT: NONE
FIELD BOOK

DRAWING NO.
ST-18
OF
L-1695

REFERENCE FILE: 851-stamp.mst - 851-intermalign.mst - 851-int-Geo.MST - 851-int-Stripe.mst - 851-border.mst
FILE NAME: V:\851 Ann Rd to El Capitan\Interm\Striping\851-ST22.dgn - 4/5/2002 - 14:55:14 ECG

PAVEMENT MARKING NOTES:

- 1 8" SOLID WHITE LINE (EPOXY PAINT)
- 2 TYPE 4 LANE LINE (RPM)
- 4 8" SOLID YELLOW LINE (EPOXY PAINT)
- 7 NDOT 8" STORAGE LANE LINE (RPM) - SEE DETAIL, SHEET ST-21
- 8 ARROW LEGEND (TYPE 1 FILM)
- 9 "ONLY" LEGEND (TYPE 1 FILM)
- 10 24" SOLID WHITE LINE (TYPE 1 FILM)
- 11 CCPW 8" STORAGE LANE LINE (RPM)
- 12 4" SOLID WHITE LINE (EPOXY PAINT)
- 13 4" SOLID YELLOW LINE (EPOXY PAINT)
- 14 TRANSITION SECTION - SEE DETAIL B, SHEET ST-22
- 15 CAT TRACKS (RPM) - SEE DETAIL, SHEET ST-22



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
STRIPING PLAN
"EL" 13+65.00 TO "EL" 26+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

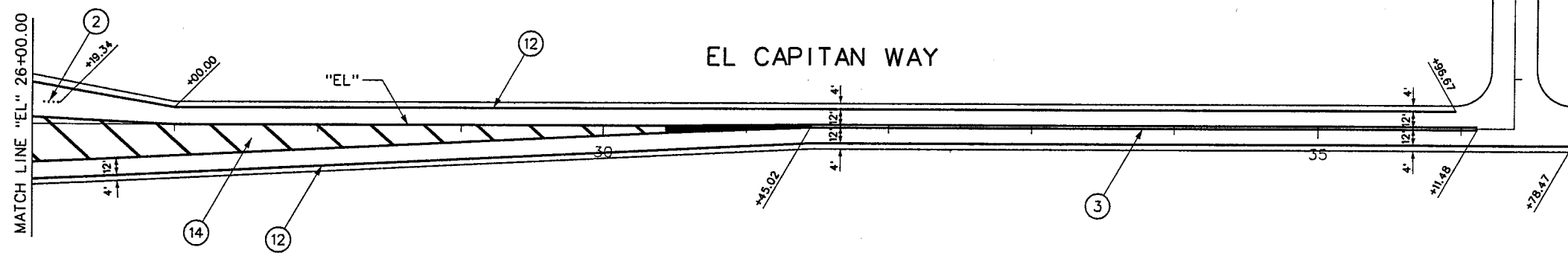
90%
PRELIMINARY
4-12-02

PROJECT NO: 851	DRAWN BY: ECG	SCALE	DRAWING NO.
DESIGNED BY: NLG	CHECKED BY: CAB	HORIZ: AS SHOWN	ST-19
APPROVED BY: TDL		VERT: NONE	OF
		FIELD BOOK	
			L-1695

REFERENCE FILE: 851-stamp.mst - 851-intermalign.mst - 851-int-geom.mst - 851-border.mst - 851-int-stripe.mst
FILE NAME: V:\851 Ann Rd to El Capitan\Interm\Striping\851-ST23.dgn - 4/5/2002 - 15:04:51 ECG

PAVEMENT MARKING NOTES:

- ② TYPE 4 LANE LINE (RPM)
- ③ TYPE 1 CENTERLINE (RPM)
- ⑫ 4" SOLID WHITE LINE (EPOXY PAINT)
- ⑭ TRANSITION SECTION - SEE DETAIL B, SHEET ST-22



REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
STRIPING PLAN
"EL" 26+00.00 TO "EL" 36+37.47
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

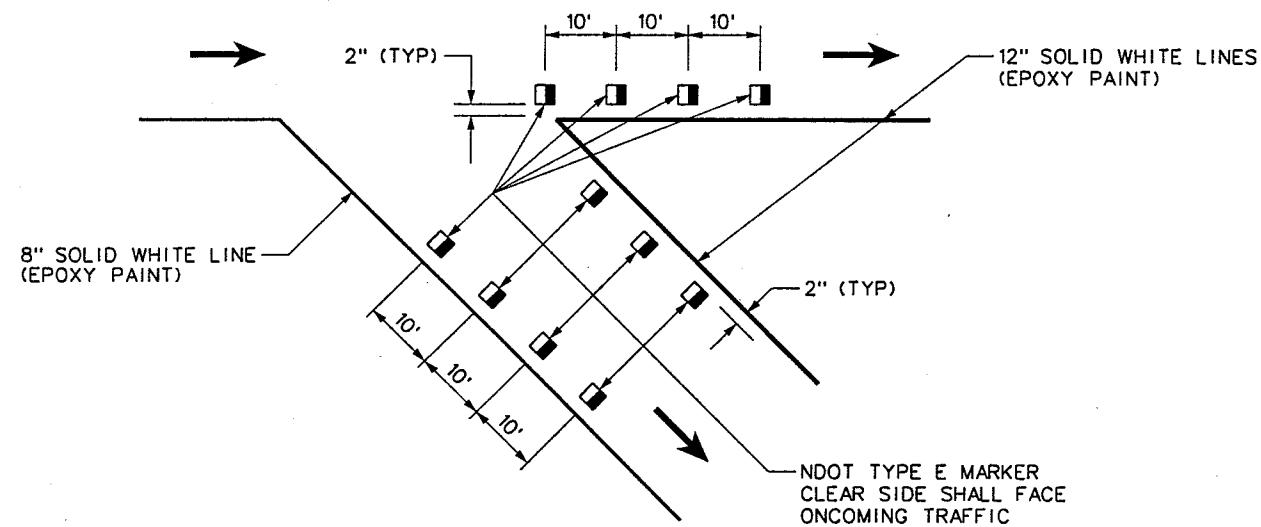
90%
PRELIMINARY
4-12-02

PROJECT NO: 851 DRAWN BY: ECG
DESIGNED BY: NLG CHECKED BY: CAB
APPROVED BY: TDL
 THE LOUIS BERGER GROUP, INC.
LAS VEGAS, NEVADA

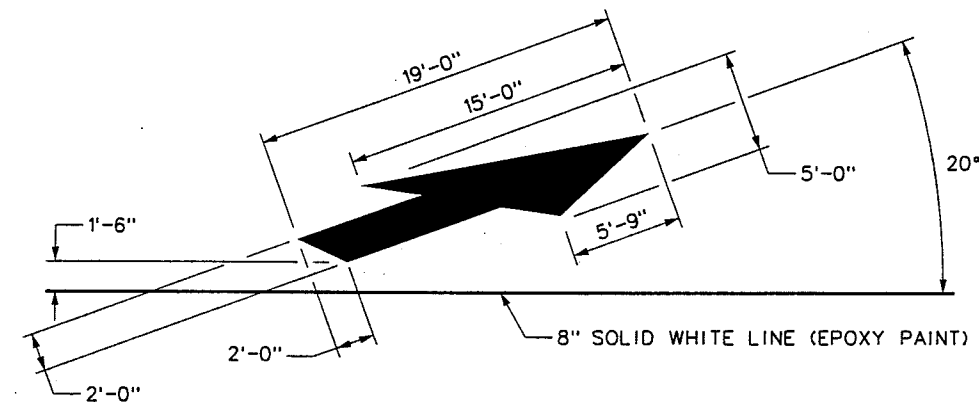
SCALE
HORIZ: AS SHOWN
VERT: NONE
FIELD BOOK

DRAWING NO.
ST-20
OF
L-1695

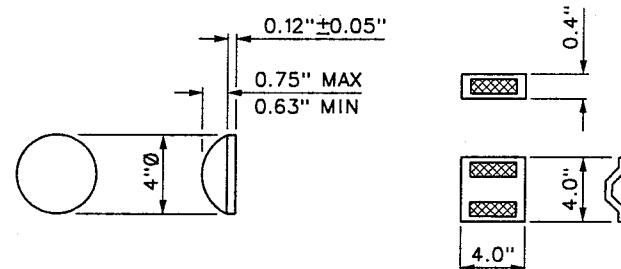
WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY



EXIT RAMP GORE STRIPING DETAIL
(NOT TO SCALE)



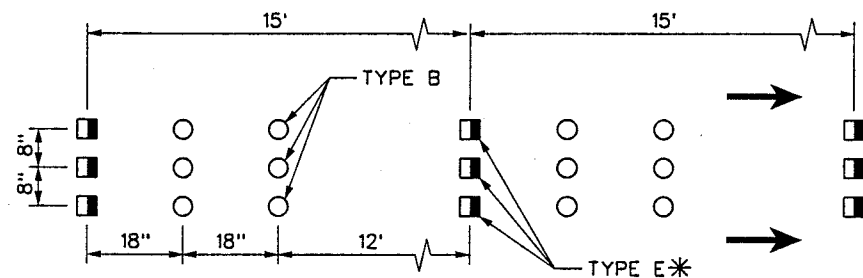
MERGE ARROW DETAIL (TYPE I FILM)
(NOT TO SCALE)



NON-REFLECTIVE & REFLECTIVE MARKERS
(NOT TO SCALE)

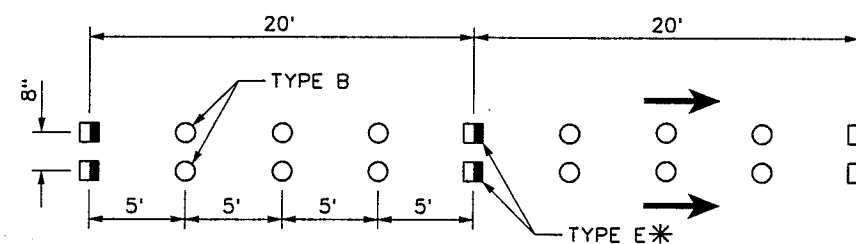
NDOT LANE MARKER SCHEDULE

- TYPE A ● NON-REFLECTIVE YELLOW MARKER
- TYPE B ○ NON-REFLECTIVE WHITE MARKER
- TYPE C □ ONE WAY CLEAR RELECTIVE MARKER
- TYPE D ■ TWO WAY YELLOW REFLECTIVE MARKER
- TYPE E ■ RED/CLEAR REFLECTIVE MARKER
CLEAR SIDE TOWARD ONCOMING TRAFFIC



DETAIL NDOT FREEWAY DOTTED WHITE LINE (RPM)
(NOT TO SCALE)

*CLEAR SIDE SHALL FACE ONCOMING TRAFFIC



DETAIL NDOT 8" STORAGE LANE LINE (RPM)
(NOT TO SCALE)

*CLEAR SIDE SHALL FACE ONCOMING TRAFFIC

REFERENCE FILES: 851-stamp.mst - 851-border.mst
FILE NAME: V:\851 Ann Rd to El Capitan\Interm\Striping\851-ST32.dgn - 4/5/2002 - 16:22:19 ECG

REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
NDOT STRIPING DETAILS
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

PROJECT NO: 851 DRAWN BY: ECG
DESIGNED BY: NLG CHECKED BY: CAB
APPROVED BY: TDL
THE LOUIS BERGER GROUP, INC.
LAS VEGAS, NEVADA

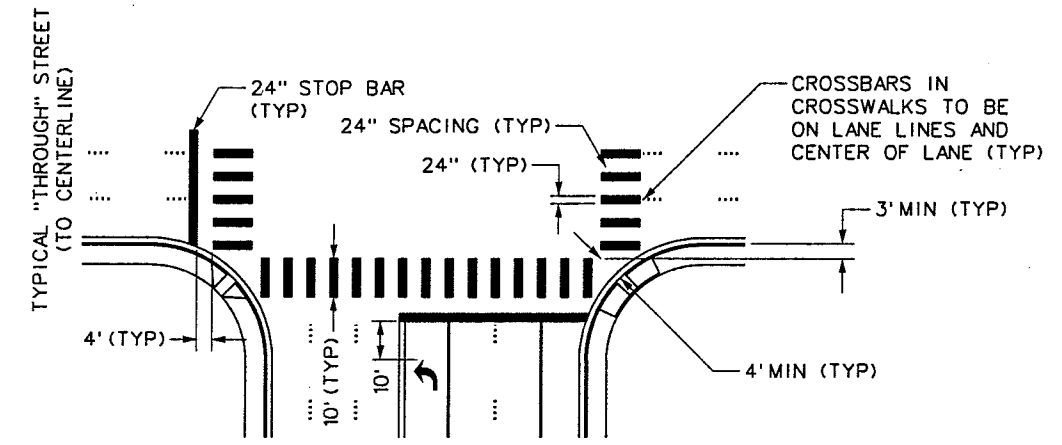
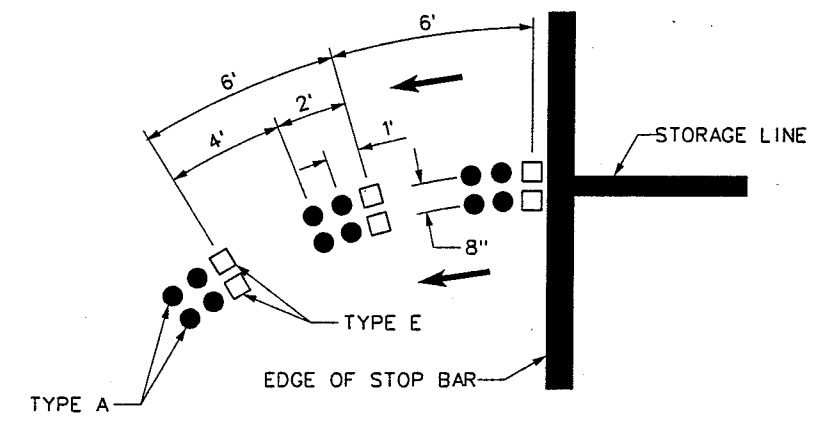
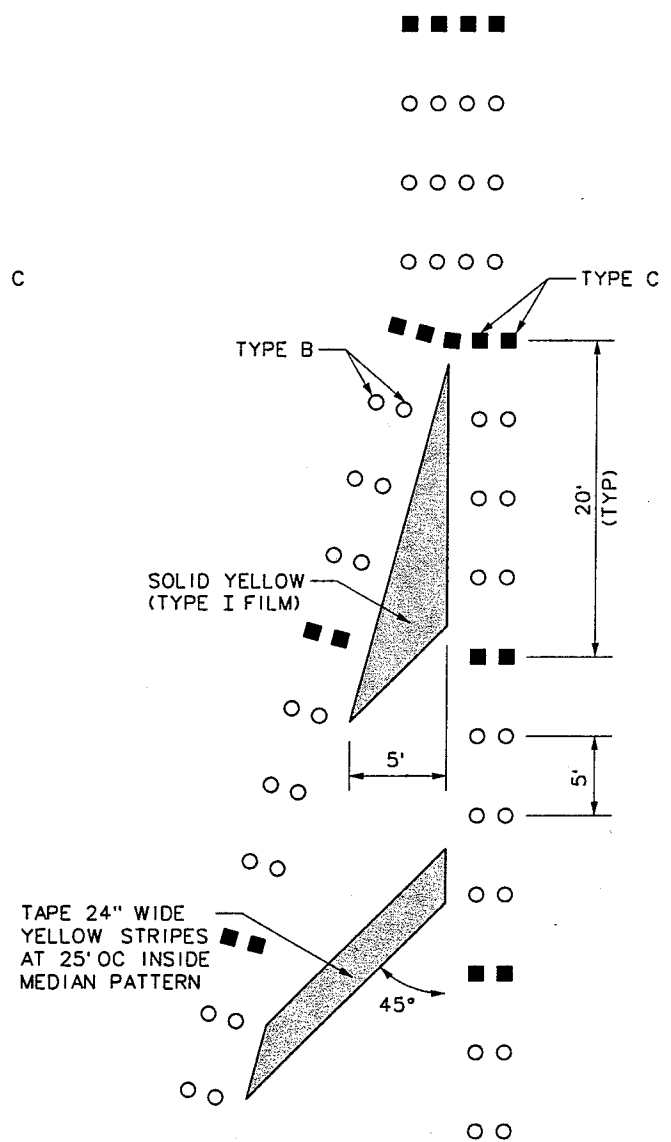
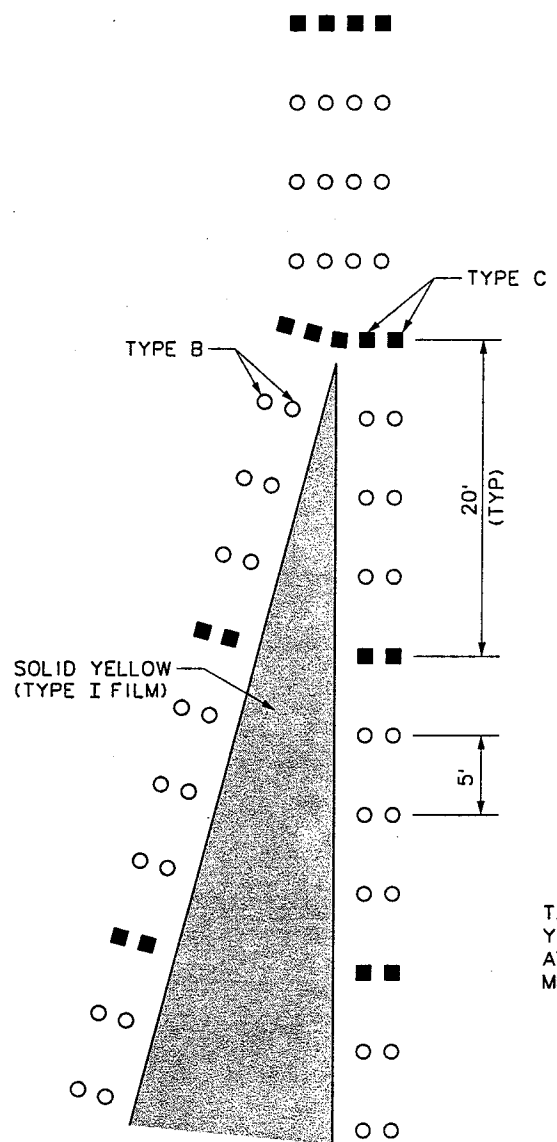
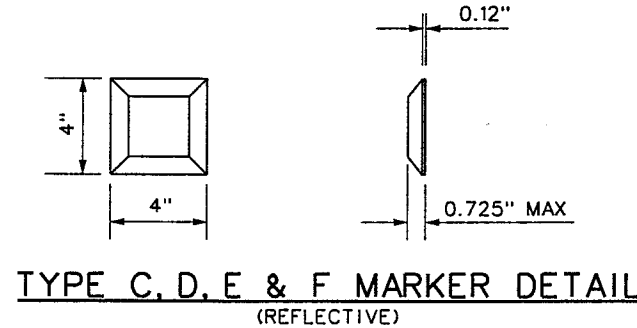
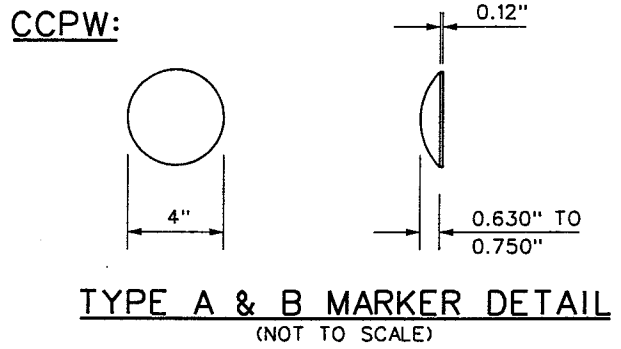
SCALE	DRAWING NO.
HORIZ: NONE	ST-21
VERT: NONE	OF
FIELD BOOK	L-1695

WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY

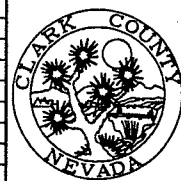
REFERENCE FILE: 851-stamp.mst - 851-border.mst
FILE NAME: V:\851 Ann Rd to El Capitan\Interm\Striping\851-ST133.dgn - 4/11/2002 - 13:38:44 ECG

CCPW LANE MARKER SCHEDULE

- TYPE A ● CIRCULAR WHITE CERAMIC MARKER
- TYPE B ○ CIRCULAR YELLOW CERAMIC MARKER
- TYPE C ■ TWO WAY YELLOW REFLECTOR
- TYPE D ■ ONE WAY YELLOW REFLECTOR, YELLOW TOWARD ONCOMING TRAFFIC
- TYPE E □ ONE WAY WHITE REFLECTOR, WHITE TOWARD ONCOMING TRAFFIC
- TYPE F ■ TWO WAY WHITE AND RED REFLECTOR, WHITE TOWARD ONCOMING TRAFFIC



REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
CCPW STRIPING DETAILS
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

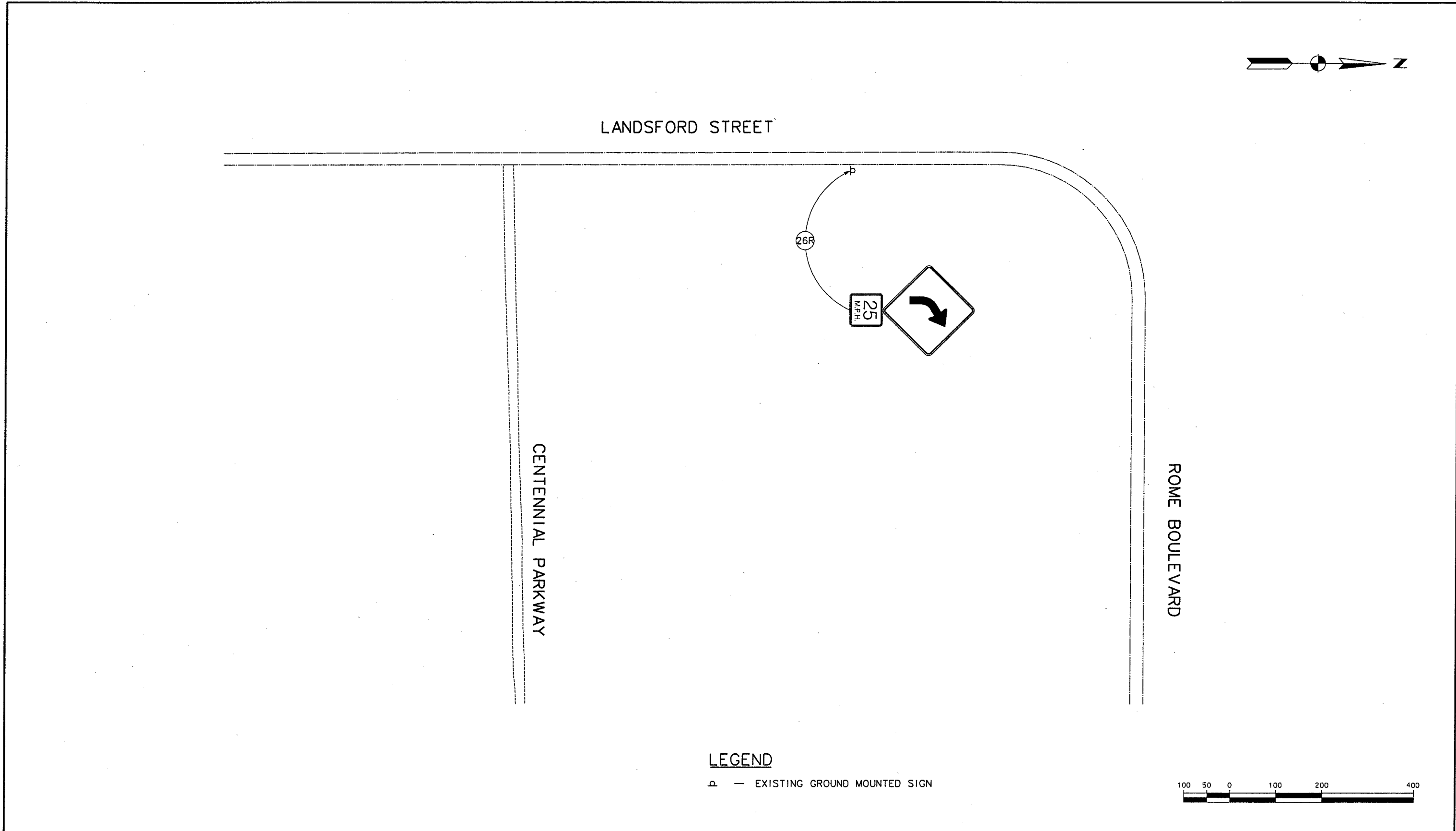
90%
PRELIMINARY
4-12-02

PROJECT NO: 851 DRAWN BY: ECG
DESIGNED BY: NLG CHECKED BY: CAB
APPROVED BY: TDL
THE LOUIS BERGER GROUP, INC.
LAS VEGAS, NEVADA

SCALE
HORIZ: NONE
VERT: NONE
FIELD BOOK

DRAWING NO.
ST-22
OF
L-1695

REFERENCE FILES: 851-topo.mst - 851-border.mst - 851-stamp.mst
FILE NAME: V:\851 Ann Rd to El Capitan\intern\signing\851-TS-03.dgn - 4/16/2002 - 11:09:21 ECG



REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY

SIGN REMOVAL PLAN

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

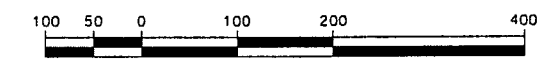
PROJECT NO: 851 DRAWN BY: ECG
DESIGNED BY: CAB CHECKED BY: NLG
APPROVED BY: TDL

THE LOUIS BERGER GROUP, INC.
LAS VEGAS, NEVADA

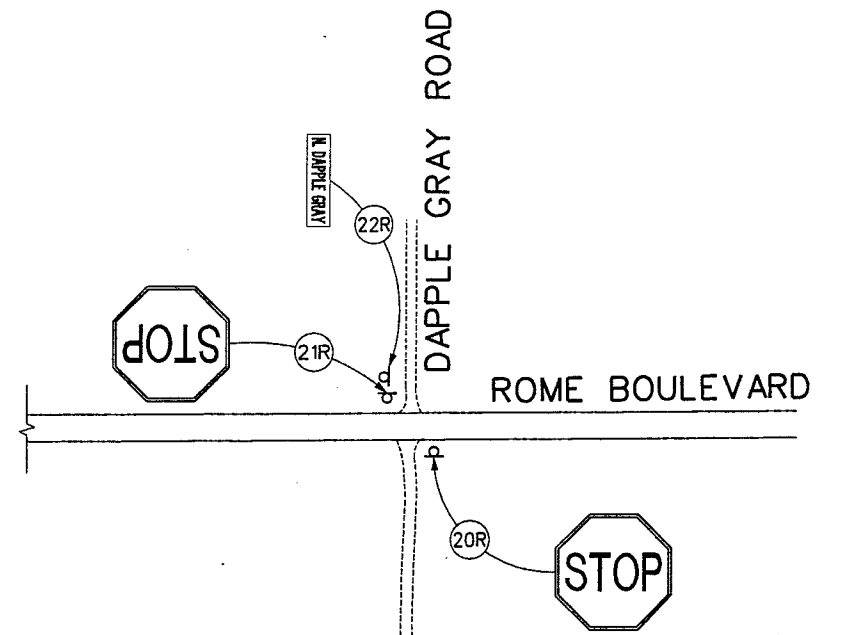
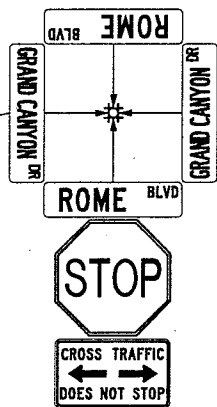
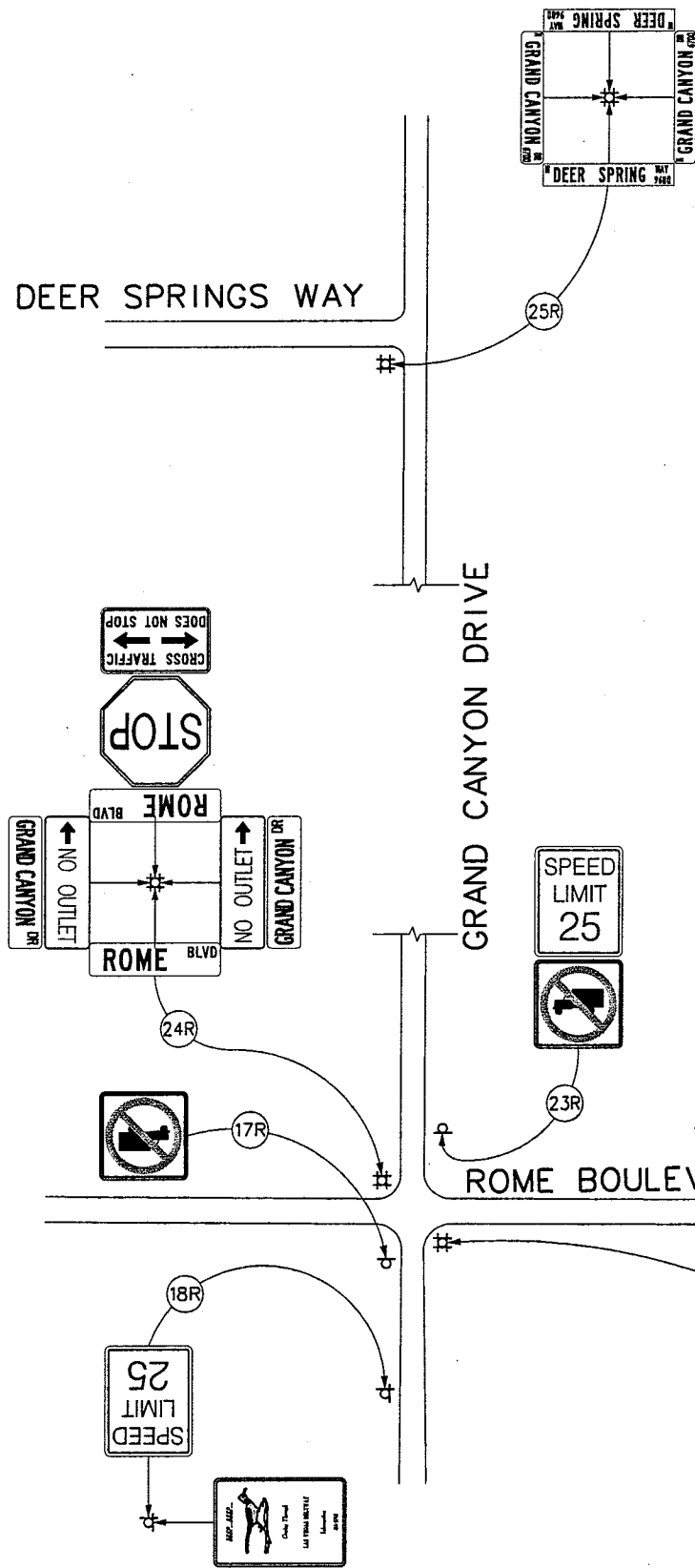
SCALE
HORIZ: AS SHOWN
VERT: NONE
FIELD BOOK

DRAWING NO.
TS-1
OF
L-1695

WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY

[illegible]

REFERENCE FILE: 851-stamp.mst - 851-border.mst
FILE NAME: V:\851 Ann Rd to El Capitan\Intern\signing\851-TS-02.dgn - 4/16/2002 - 11:19:42 ECG



LEGEND

△ — EXISTING GROUND MOUNTED SIGN



REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
SIGN REMOVAL PLAN
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

PROJECT NO: 851 DRAWN BY: WSH
DESIGNED BY: CAB CHECKED BY: NLG
APPROVED BY: TDL
THE LOUIS BERGER GROUP, INC.
LAS VEGAS, NEVADA

SCALE
HORIZ: AS SHOWN
VERT: NONE
FIELD BOOK

DRAWING NO.
TS-3
OF
L-1695

WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY

"IB" 795+00.00 POT -
"A" 795+00.00 (100.00' RT)

"A"

790

795

800

795

800

"18"

MATCH LINE "A" 804+00.00

[illegible]

"A" 795+00.00 TO "A" 804+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

PROJECT NO: 851 DRAWN BY: ECG
DESIGNED BY: CAB CHECKED BY: NLG
APPROVED BY: TDL



**THE LOUIS BERGER
GROUP, INC.**
LAS VEGAS, NEVADA

SCALE
HORIZ: AS SHOWN
VERT: NONE
FIELD BOOK

DRAWING NO.
TS-4
OF

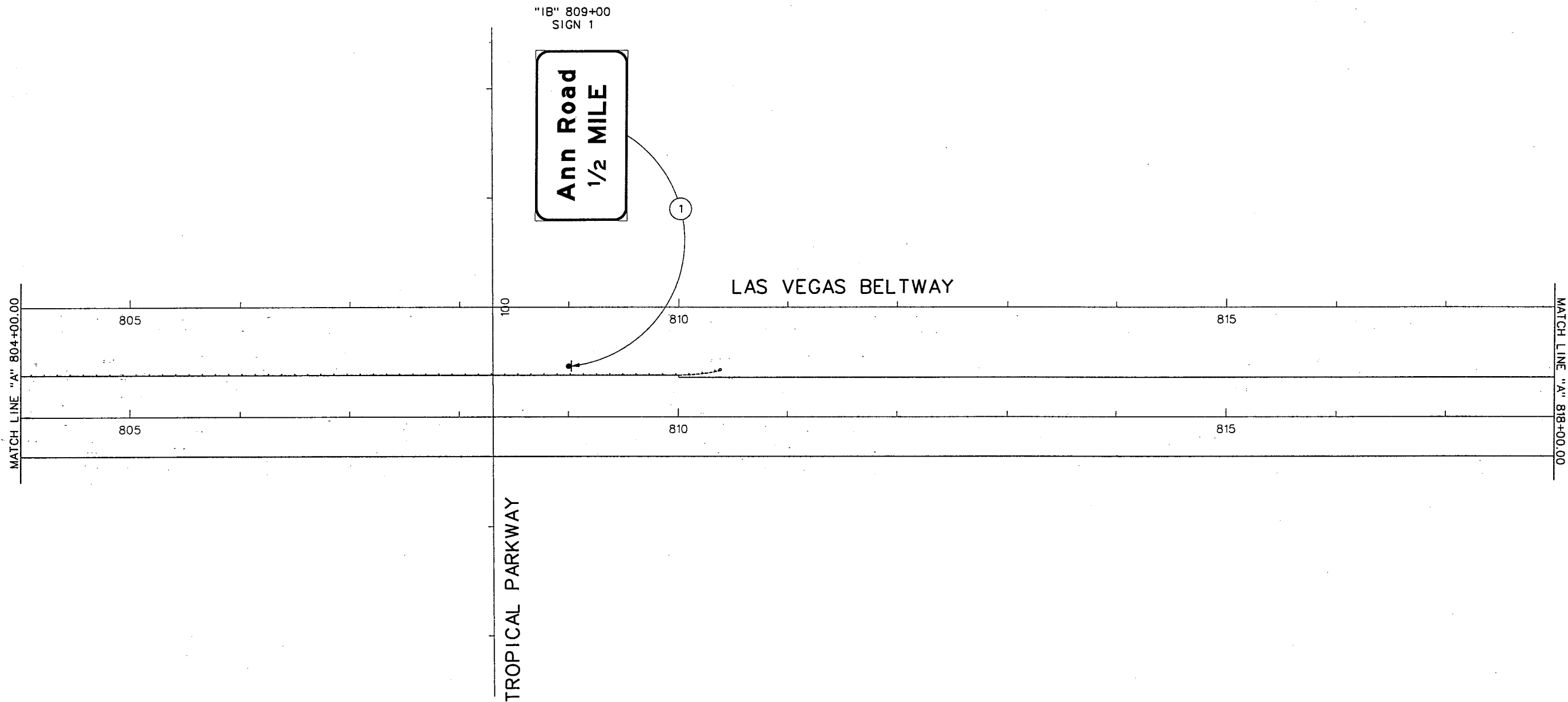
-1695

REFERENCE FILES: 851-border.mst -- 851-INTERNAL.IGN.mst -- 851-stomp.mst -- 851-INT-CEO.MST

FILE NAME: V:\851 Ann Rd to El Capitan\intern\signing\851-i-sgn02.dgn -- 4/10/2002 -- 10:51:29 ECG

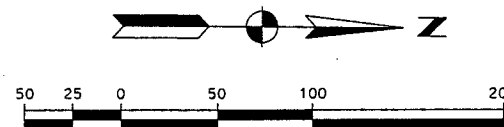
WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY

REFERENCE FILES: 851-border.mst - 851-INTERNAL IGN.mst - 851-slopp.mst - 851-INT-GEO.MST
FILE NAME: V:\851 Ann Rd to El Capitan\intern\signing\851-1-sgn03.dgn - 4/10/2002 - 11:07:03 ECG



LEGEND

— GROUND MOUNTED SIGN (SINGLE SUPPORT)



REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
SIGNING PLAN
"A" 804+00.00 TO "A" 818+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

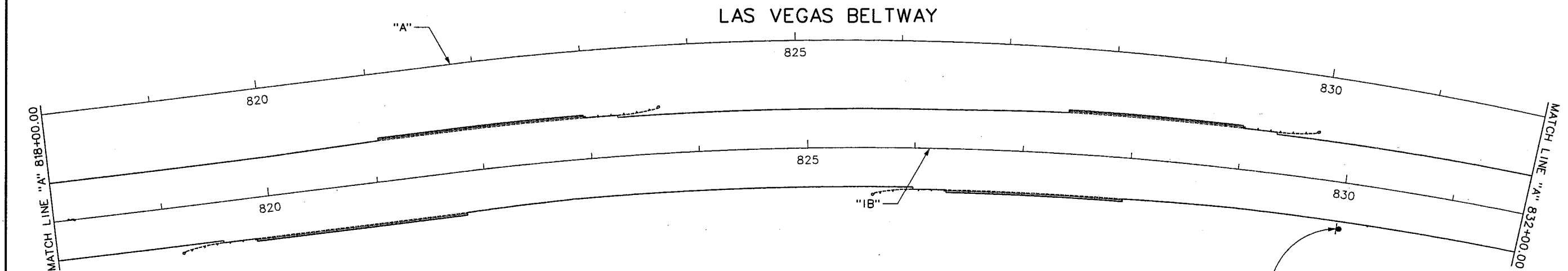
PROJECT NO: 851 DRAWN BY: ECG
DESIGNED BY: CAB CHECKED BY: NLG
APPROVED BY: TDL
 **THE LOUIS BERGER GROUP, INC.**
LAS VEGAS, NEVADA

SCALE
HORIZ: AS SHOWN
VERT: NONE
FIELD BOOK

DRAWING NO.
TS-5
OF
L-1695

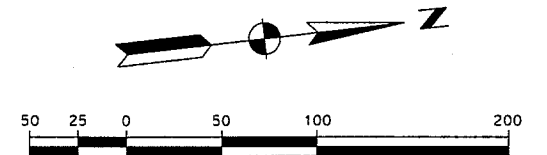
WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY

REFERENCE FILE: 851-stamp.mst - 851-border.mst - 851-INTERNAL.IGN.mst - 851-INT-GEO.MST
FILE NAME: V:\851 Ann Rd to El Capitan\intern\signing\851-tr-sgn04.dgn - 4/10/2002 - 11:14:50 ECG

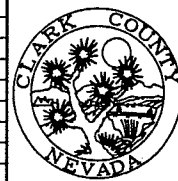


LEGEND

— GROUND MOUNTED SIGN (SINGLE SUPPORT)



REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
SIGNING PLAN
"A" 818+00.00 TO "A" 832+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

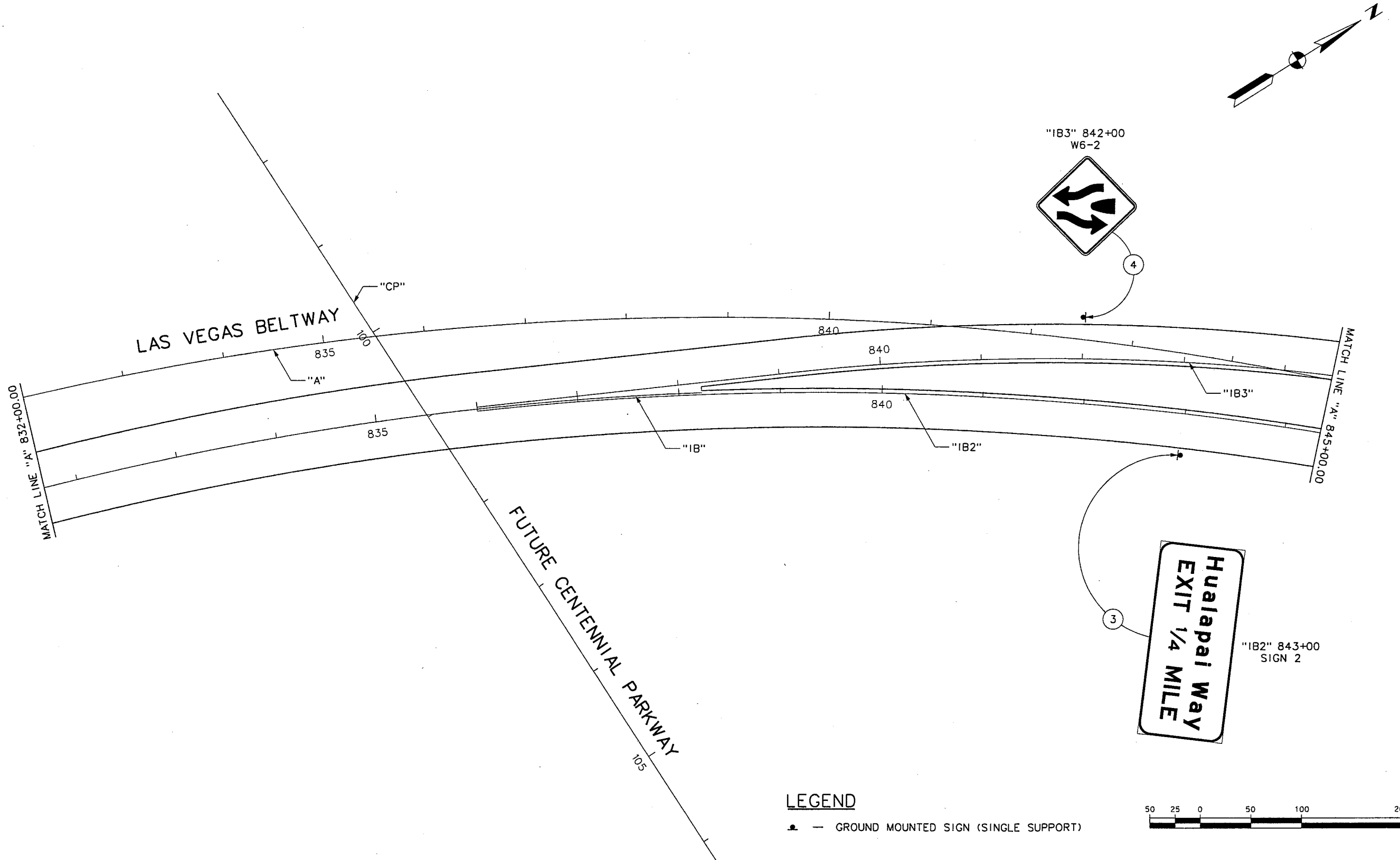
90%
PRELIMINARY
4-12-02

PROJECT NO: 851	DRAWN BY: WFD	SCALE	DRAWING NO.
DESIGNED BY: CAB	CHECKED BY: NLG	HORIZ: AS SHOWN	TS-6
APPROVED BY: TDL		VERT: NONE	OF
		FIELD BOOK	
			L-1695

 **THE LOUIS BERGER GROUP, INC.**
LAS VEGAS, NEVADA

WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY

REFERENCE FILE: 851-border.mst - 851-stamp.mst - 851-interim.lgn.mst - 851-INT-CEOMST
FILE NAME: V:\851 Ann Rd to El Capitan\interim\signing\851-INT-CEOMST.dgn - 4/16/2002 - 11:22:50 ECG



REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
SIGNING PLAN
"A" 832+00.00 TO "A" 845+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

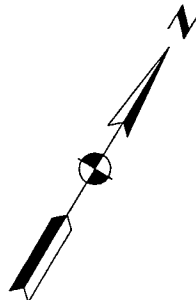
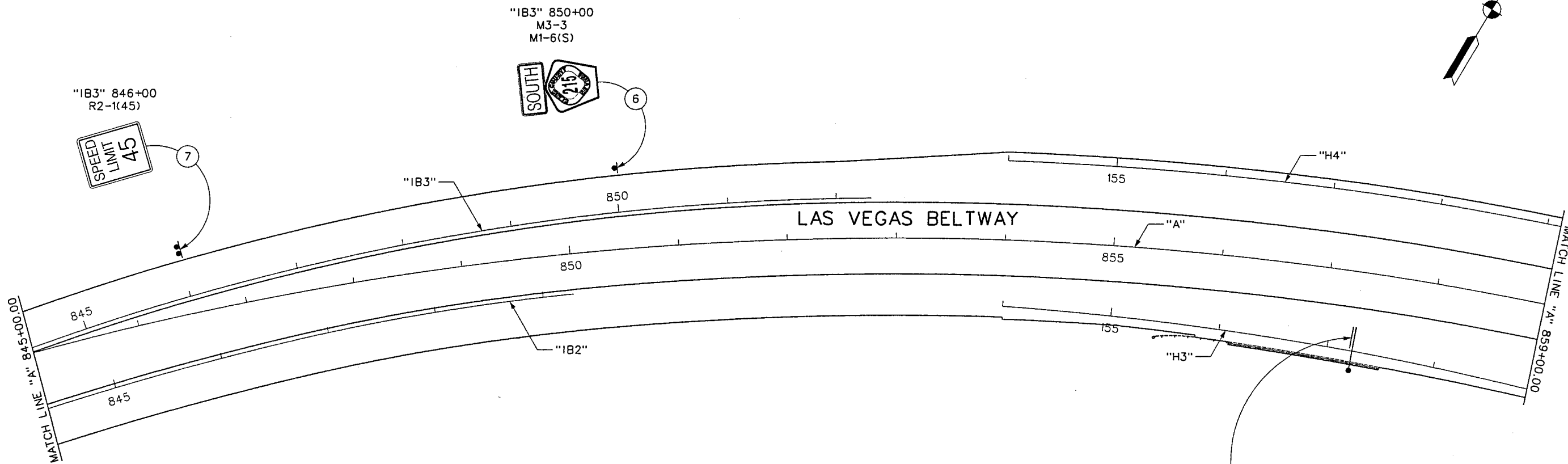
PROJECT NO: 851	DRAWN BY: ECG
DESIGNED BY: CAB	CHECKED BY: NLG
APPROVED BY: TDL	
THE LOUIS BERGER GROUP, INC. LAS VEGAS, NEVADA	

SCALE
HORIZ: AS SHOWN
VERT: NONE
FIELD BOOK

DRAWING NO.
TS-7
OF
L-1695

WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY

REFERENCE FILE: 851-border.mst - 851-stamp.mst - 851-interm1.mst - 851-INT-000.MST
FILE NAME: V:\851 Ann Rd to El Capitan\interm\signing\851-1-1-sgn06.dgn - 4/16/2002 - 11:27:18 ECG



LEGEND

- SIGN MOUNTED ON METAL POST
- GROUND MOUNTED SIGN (DUAL SUPPORT)
- SIGN MOUNTED ON CANTILEVER SIGN STRUCTURE



REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
SIGNING PLAN
"A" 845+00.00 TO "A" 859+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

PROJECT NO: 851	DRAWN BY: ECG
DESIGNED BY: CAB	CHECKED BY: NLG
APPROVED BY: TDL	
 THE LOUIS BERGER GROUP, INC. LAS VEGAS, NEVADA	

SCALE
HORIZ: AS SHOWN
VERT: NONE
FIELD BOOK

DRAWING NO.
TS-8
OF
L-1695

WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY



REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
SIGNING PLAN
"A" 874+00.00 TO "A" 888+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

PROJECT NO: 851 DRAWN BY: WFD
DESIGNED BY: CAB CHECKED BY: NLG
APPROVED BY: TDL

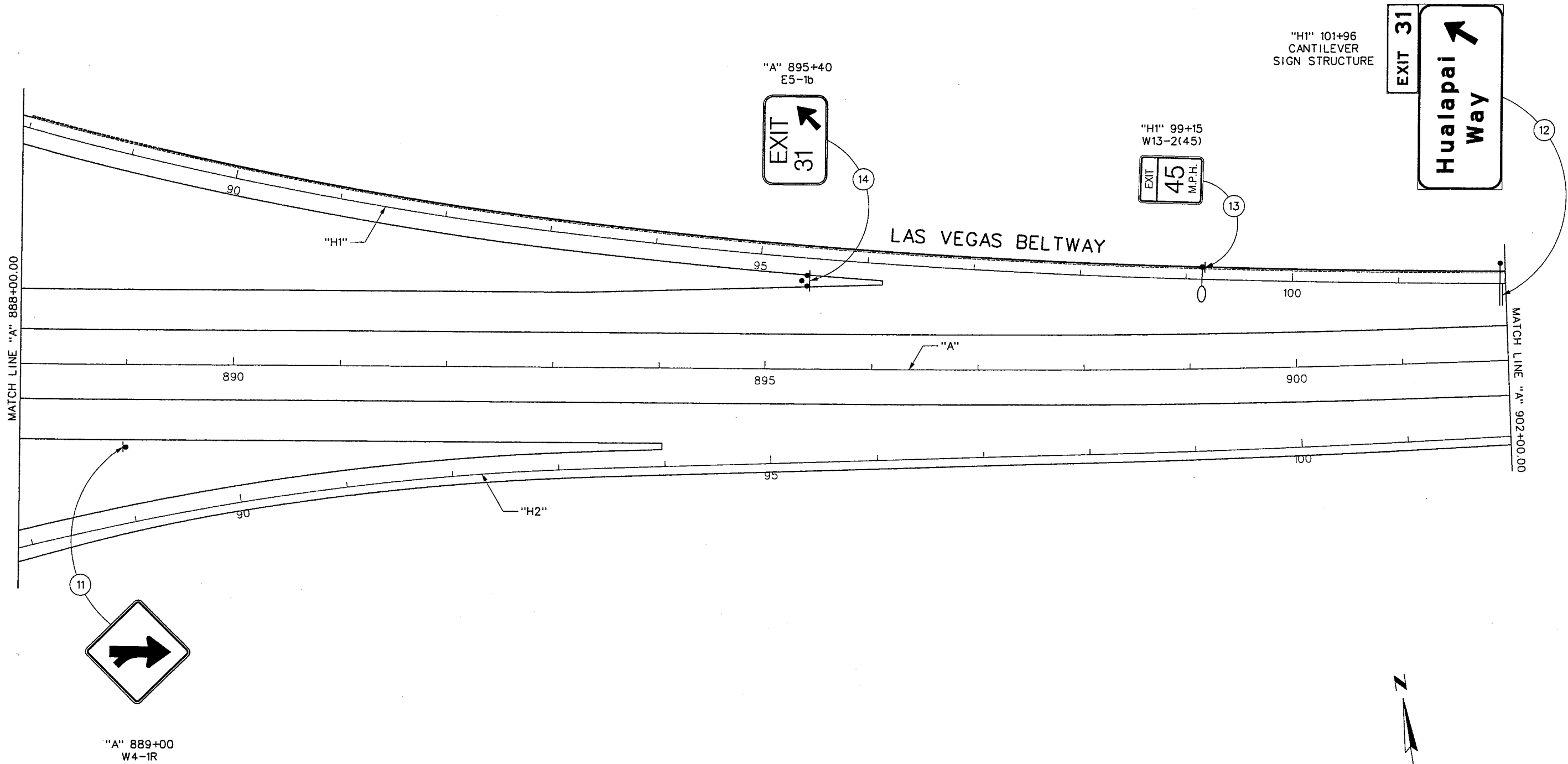


**THE LOUIS BERGER
GROUP, INC.**
LAS VEGAS, NEVADA

SCALE
HORIZ: AS SHOWN
VERT: NONE
FIELD BOOK

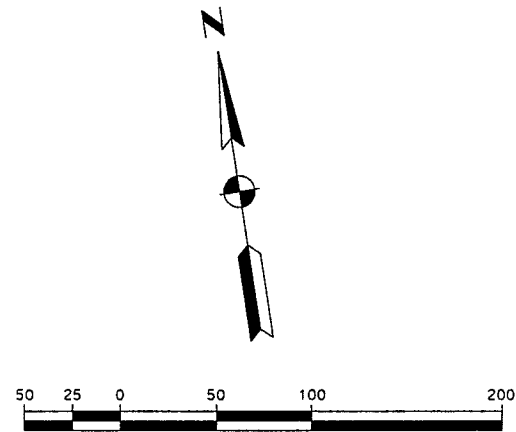
DRAWING NO.	TS-10
OF	
	L-1695

REFERENCE FILE: 851-INT-CEO.MST - 851-internal.ign.mst - 851-border.mst - 851-stamp.mst
FILE NAME: V:\851 Ann Rd to El Capitan\intern\signing\851-i-ign10.dgn - 4/16/2002 - 13:24:12 ECG



LEGEND

- GROUND MOUNTED SIGN (SINGLE SUPPORT)
- GROUND MOUNTED SIGN (BRACED)
- SIGN MOUNTED ON LIGHT POLE
- OVERHEAD SIGN MOUNTED ON CANTILEVER SIGN STRUCTURE



REV. NO.	DATE	DESCRIPTION	APPROVED



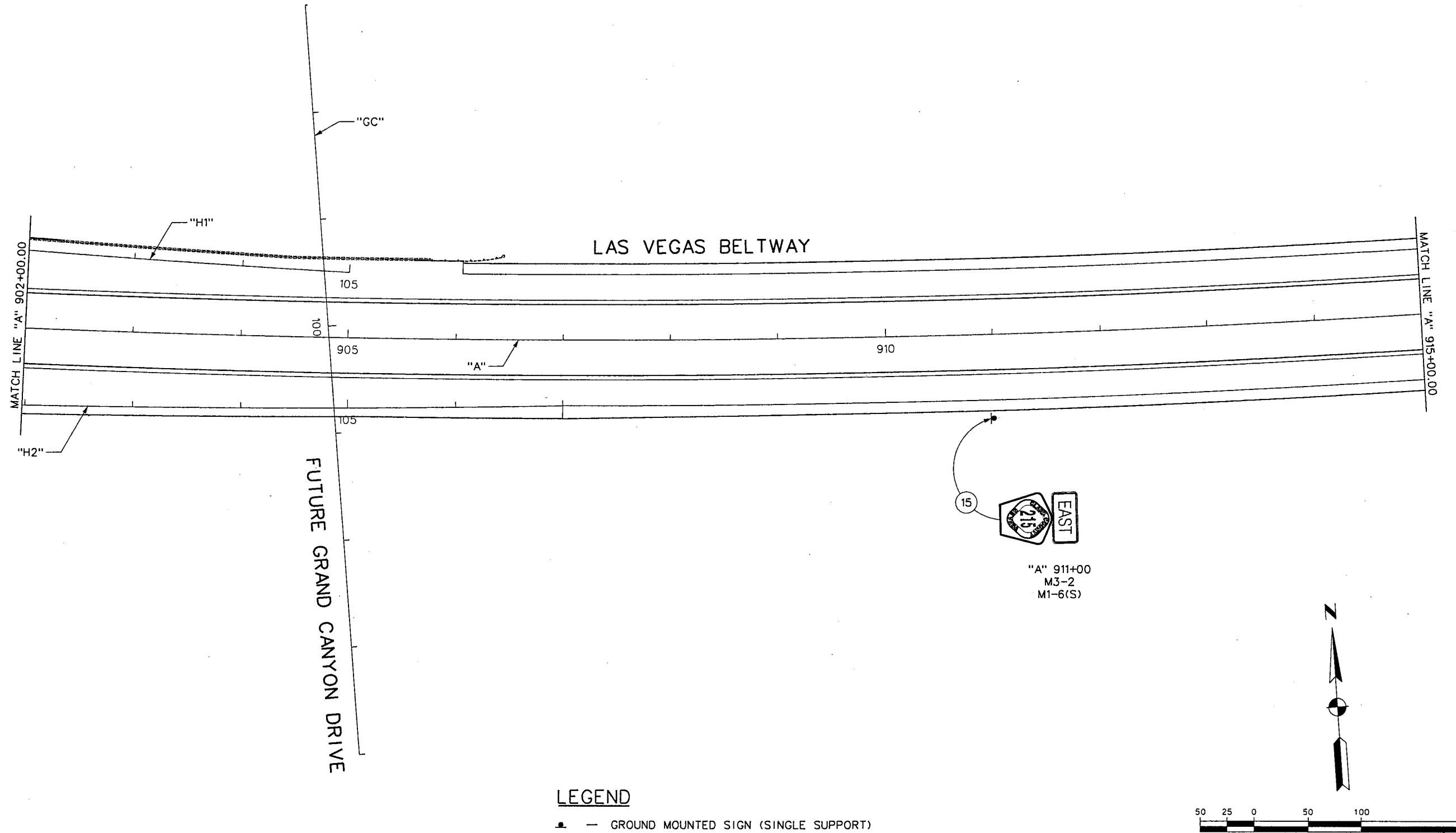
WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
SIGNING PLAN
"A" 888+00.00 TO "A" 902+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

PROJECT NO: 851	DRAWN BY: WFD	SCALE	DRAWING NO. TS-11
DESIGNED BY: CAB	CHECKED BY: NLG	HORIZ: AS SHOWN	OF
APPROVED BY: TDL		VERT: NONE	
		FIELD BOOK	
			L-1695



REFERENCE FILE: 851-border.mst - 851-stamp.mst - 851-interm1.gn.mst - 851-int-geo.mst
FILE NAME: V:\851 Ann Rd to El Capitan\Interm\signing\851-I-sgn1.dgn - 4/11/2002 - 13:27:11 ECG



REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
SIGNING PLAN
"A" 902+00.00 TO "A" 915+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

PROJECT NO: 851 DRAWN BY: WFD
DESIGNED BY: CAB CHECKED BY: NLG
APPROVED BY: TDL

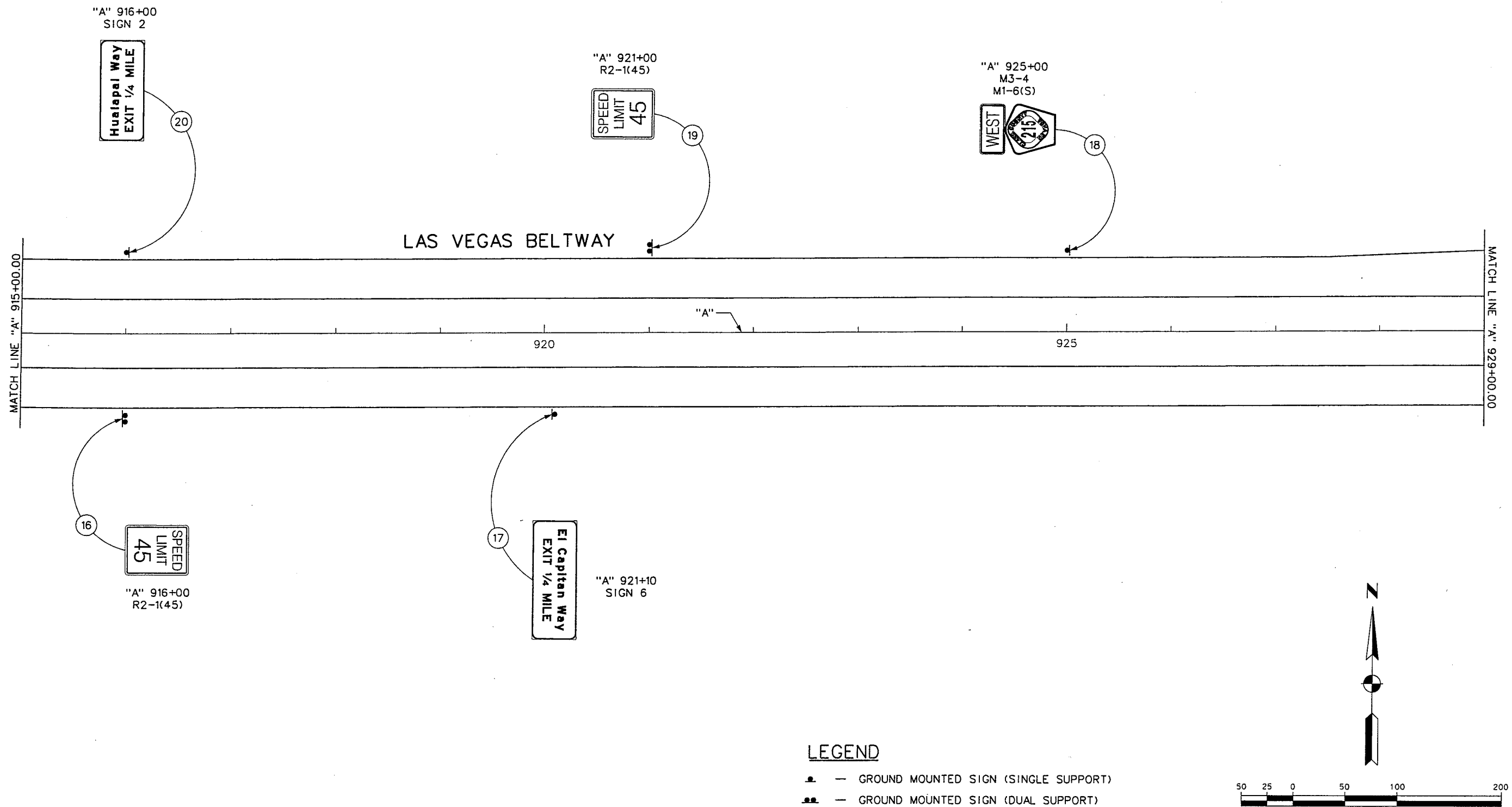
 **THE LOUIS BERGER GROUP, INC.**
LAS VEGAS, NEVADA

SCALE
HORIZ: AS SHOWN
VERT: NONE
FIELD BOOK

DRAWING NO.
TS-12
OF
L-1695

WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY

REFERENCE FILE: 851-border.mst - 851-stamp.mst - 851-interim.lgn.mst - 851-INT-QEO.MST
FILE NAME: V:\851 Ann Rd to El Capitan\Interim\signing\851-INT-QEO.MST - 4/11/2002 - 9:28:51 ECG



REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
SIGNING PLAN
"A" 915+00.00 TO "A" 929+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

PROJECT NO: 851 DRAWN BY: WFD
DESIGNED BY: CAB CHECKED BY: NLG
APPROVED BY: TDL
 THE LOUIS BERGER GROUP, INC.
LAS VEGAS, NEVADA

SCALE
HORIZ: AS SHOWN
VERT: NONE
FIELD BOOK

DRAWING NO.
TS-13
OF
L-1695

WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY

[illegible]

90%
PRELIMINARY
4-12-02

PROJECT NO: 851 DRAWN BY: WFO
DESIGNED BY: CAB CHECKED BY: NLG
APPROVED BY: TDL

 **THE LOUIS BERGER
GROUP, INC.**
LAS VEGAS, NEVADA

SCALE
HORIZ: AS SHOWN
VERT: NONE
FIELD BOOK

DRAWING NO.	TS-14
OF	
	L-1695



 — GROUND MOUNTED SIGN (SINGLE SUPPORT)



90%
PRELIMINARY
4-12-02

SCALE
HORIZ: AS SHOWN
VERT: NONE
FIELD BOOK

DRAWING NO.
TS-15
OF
L-1695